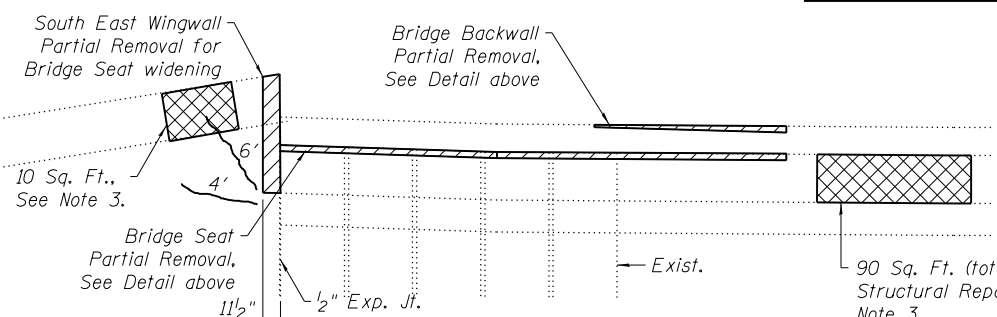
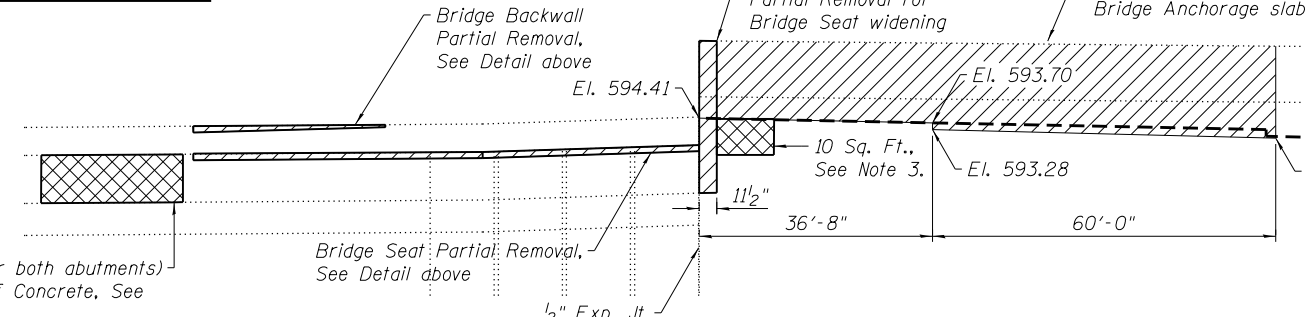


**BRIDGE SEAT RECONSTRUCTION**



**SOUTH ABUTMENT PARTIAL ELEVATION**

Showing Concrete Removal and Repairs



**NORTH ABUTMENT PARTIAL ELEVATION**

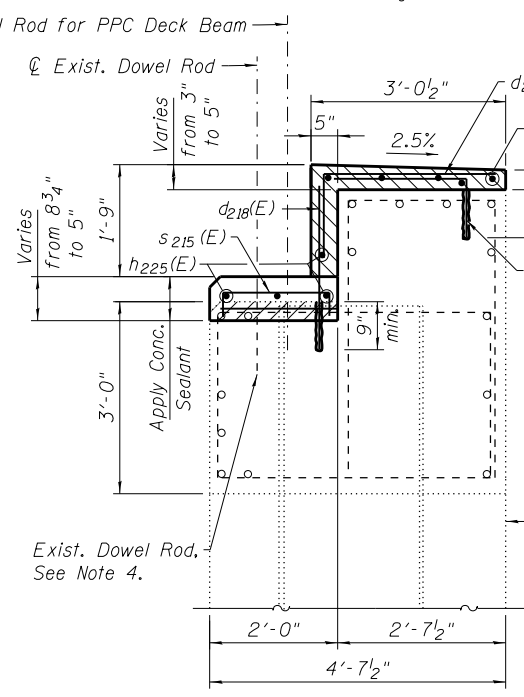
Showing Concrete Removal and Repairs

**LEGEND:**

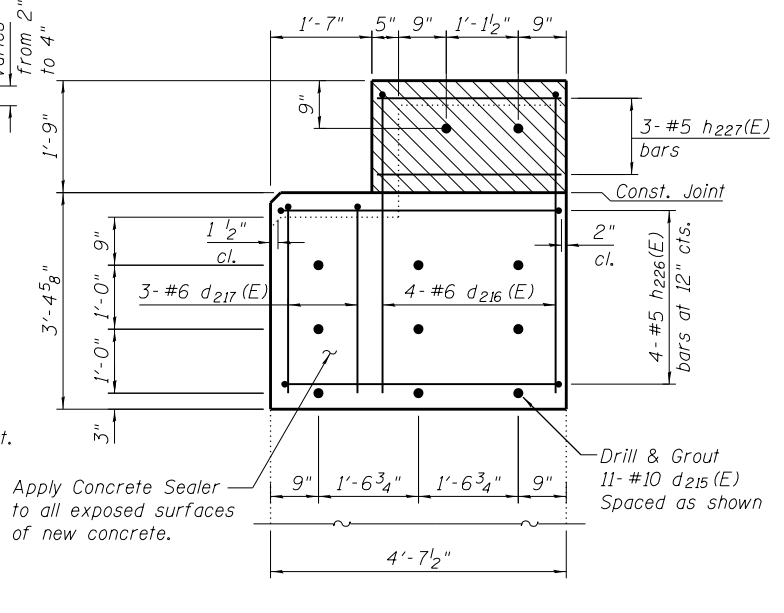
- Indicates Concrete Abutment and Retaining Wall Removal Area
- Indicates Concrete to be poured after PPC Deck Beams are in place with transverse tie assembly and dowel rods installed. The cost is included with Concrete Superstructure.
- Indicates Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- Crack to be repaired using Epoxy Crack Injection (6 ft. long)

**Notes:**

1. Drill and epoxy grout bars into existing structure according to Section 584 of the Standard Specifications. The cost of drilling and grouting included with Concrete Structures.
2. Existing reinforcement shall be cleaned and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.
3. The quantity of Structural Repair of Concrete is based on the Bridge Condition Report. The areas of concrete repair on abutments are located between underpass lighting conduits and the bridge seat. The exact quantity and locations will be determined by the Engineer during construction. Any necessary removals, relocation, temporary support, and reinstallation of the lights and appurtenances shall be included in the cost for concrete removal.
4. The existing dowel rods shall be burned or cut flush with the existing bearing seat, ground smooth and sealed with epoxy. The cost of this work shall be included with Concrete Removal.

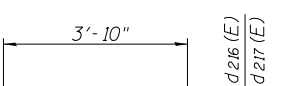


**SECTION A-A**

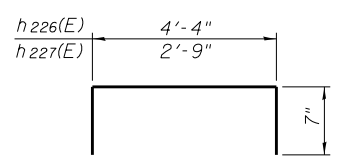


**SECTION B-B**

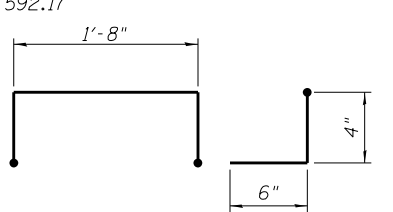
**BAR d 215 (E)**



**BAR d 216 (E) & d 217 (E)**



**BAR h 226 (E) & h 227 (E)**



**BAR s 215 (E)**

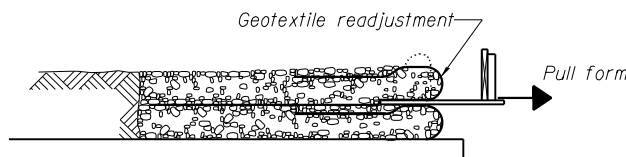
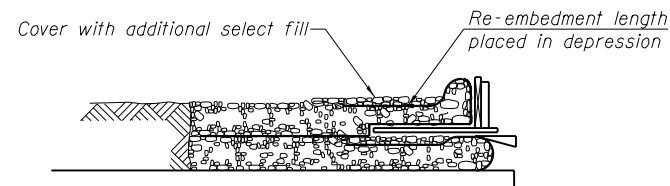
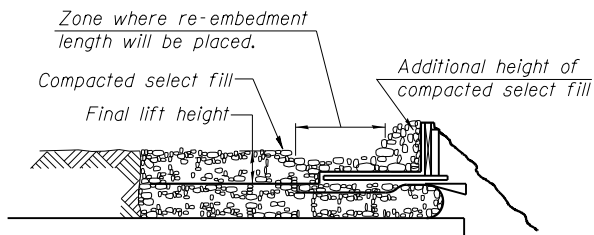
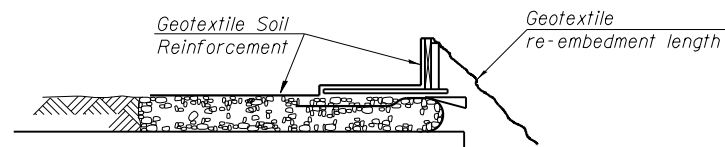
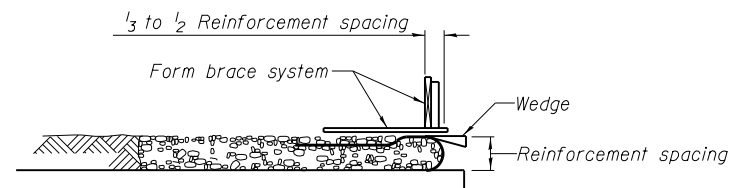
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d 215 (E)	22	#10	3'-6"	L
d 216 (E)	8	#5	7'-8"	L
d 217 (E)	6	#5	5'-10"	L
d 218 (E)	64	#5	2'-9"	—
d 219 (E)	64	#5	3'-9"	L
d 220 (E)	64	#5	4'-3"	L
h 225 (E)	32	#5	17'-11"	—
h 226 (E)	8	#5	5'-6"	┌┐
h 227 (E)	6	#5	3'-11"	┌┐
s 215 (E)	50	#5	3'-4"	┌┐└└
Concrete Removal			Cu. Yd.	29.2
Concrete Structures			Cu. Yd.	4.2
Concrete Superstructure			Cu. Yd.	16.7
Reinforcement Bars, Epoxy Coated			Pound	2,000
Concrete Sealer			Sq. Ft.	89
Epoxy Crack Injection			Foot	10
Structural Repair to Concrete (Depth Equal to or Less than 5 inches)			Sq. Ft.	110

Total for both abutments.

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	CHECKED - EKM	REVISIONS





1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of  $\frac{1}{3}$  to  $\frac{1}{2}$  the geotextile reinforcement spacing.

2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.

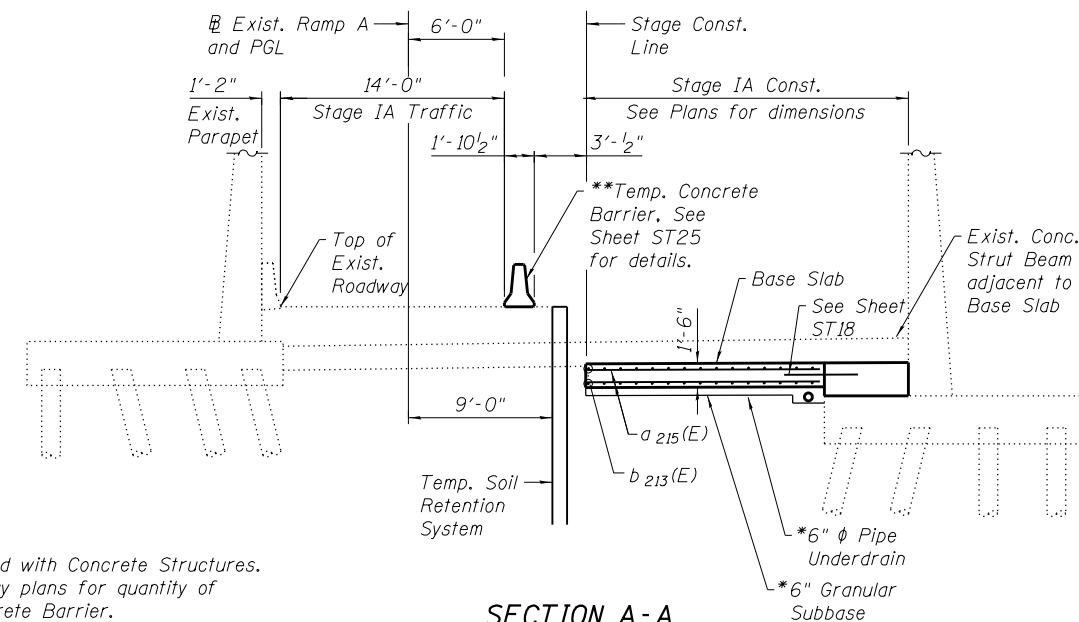
3. Compact select fill material in lifts to final lift height, create ( $\pm 3''$ ) depression in zone where re-embedment length will be located and place additional height of compacted select fill against form brace.

4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill ( $\pm 3''$ ) to embed geotextile and bring to final lift height.

5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face level with plan reinforcement spacing.

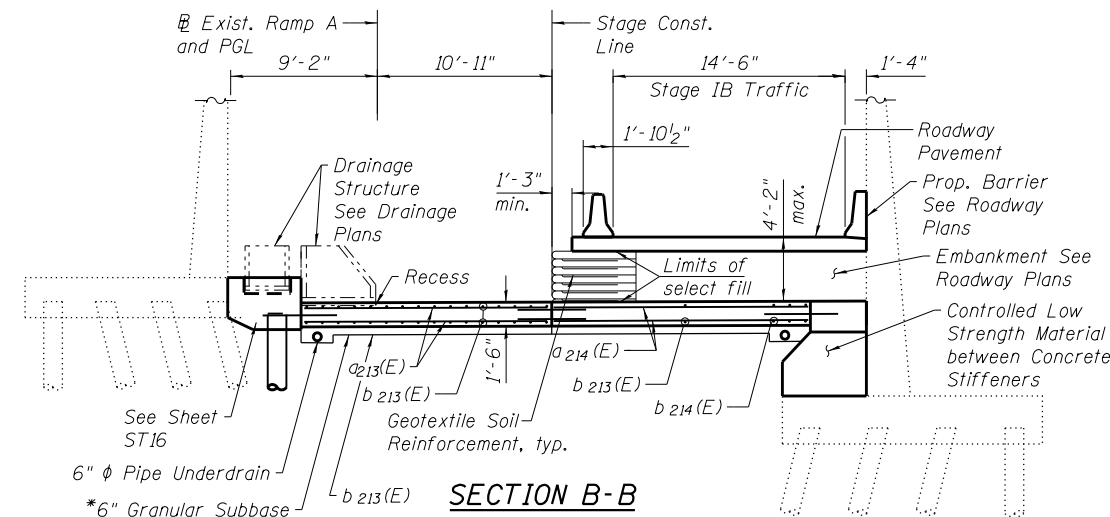
**TEMPORARY GEOTEXTILE WALL CONSTRUCTION SEQUENCE**

Notes:  
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 200 lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.  
For Geotextile Retaining Wall location see Sheet ST21.

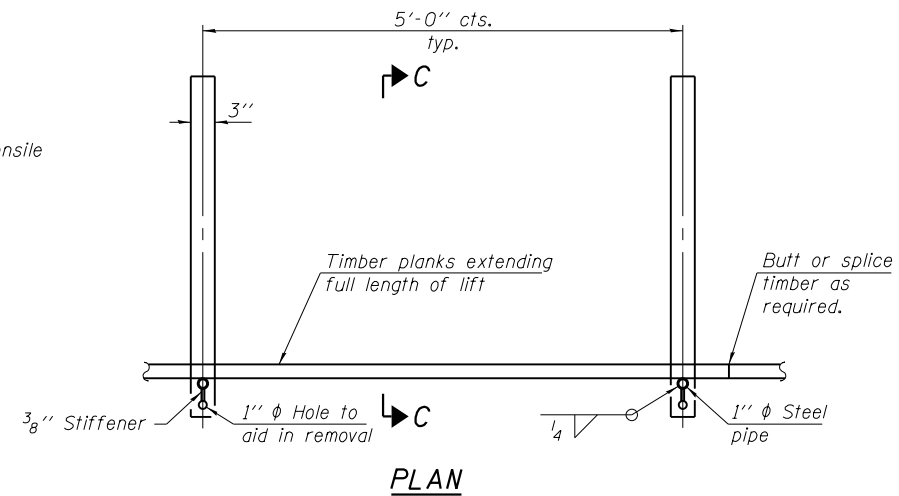


**SECTION A-A**  
Showing Stage IA Construction  
See Sheet ST21 for location.

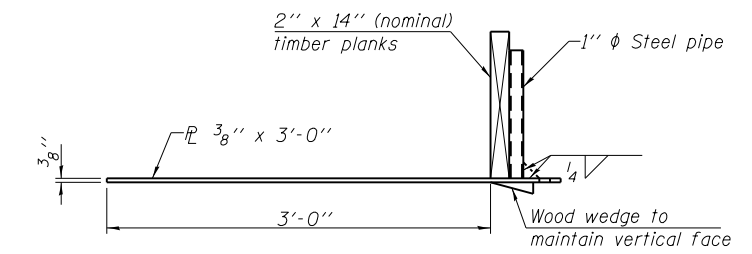
\* Cost included with Concrete Structures.  
\*\* See Roadway plans for quantity of Temp. Concrete Barrier.



**SECTION B-B**  
Showing Stage IB Construction  
See Sheet ST21 for location.



**PLAN**



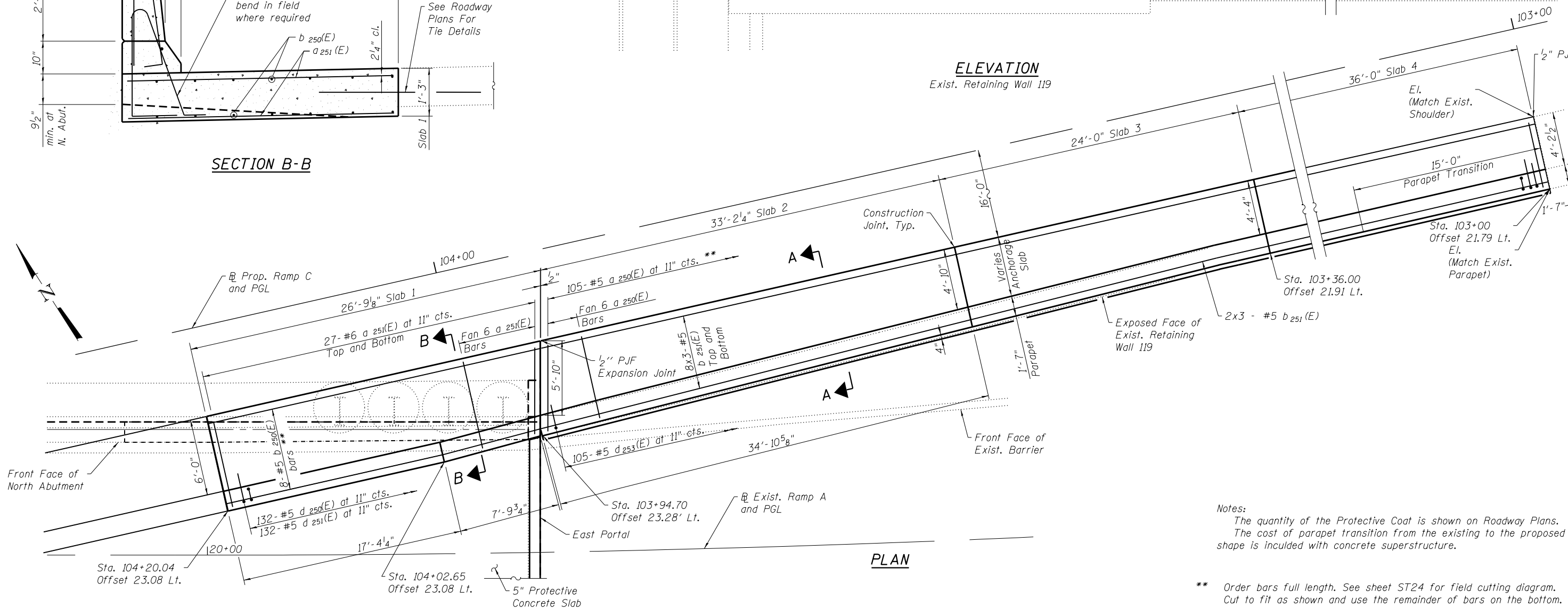
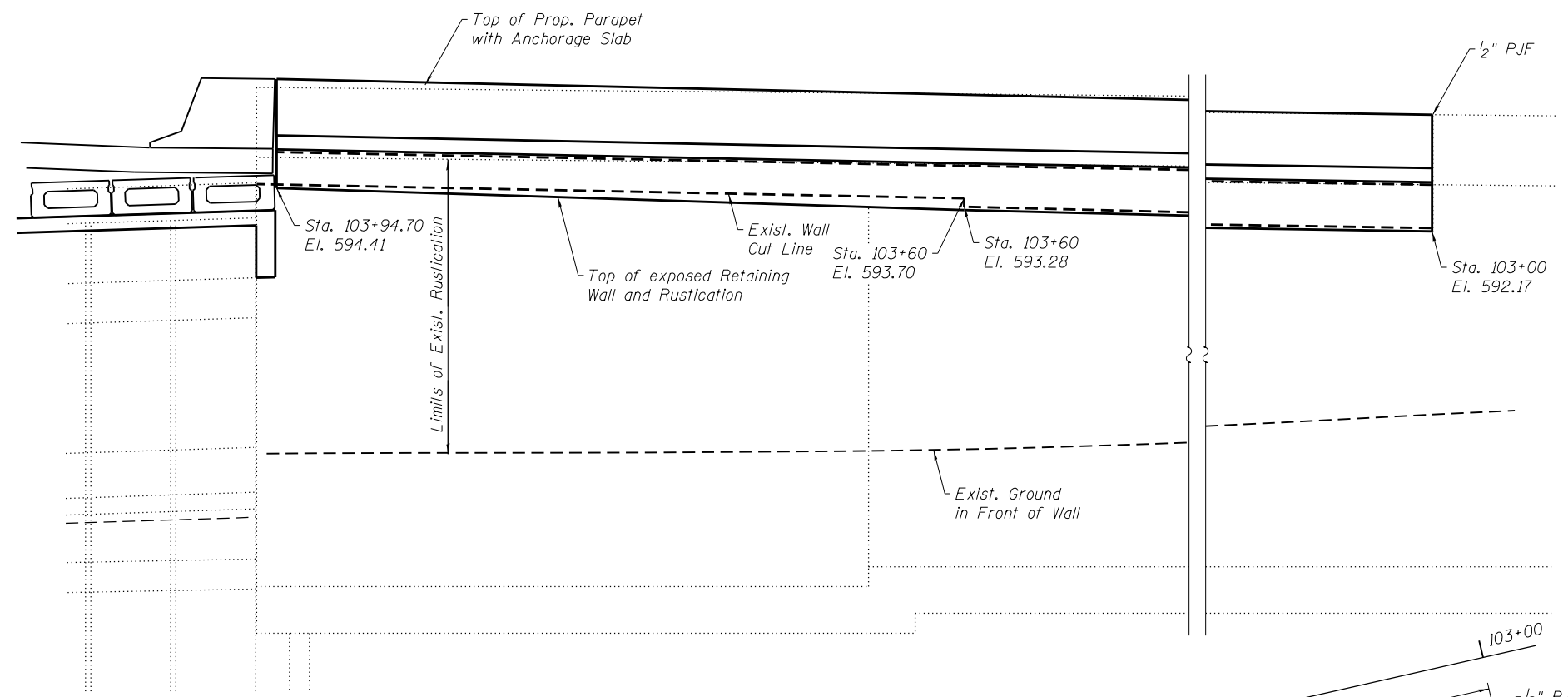
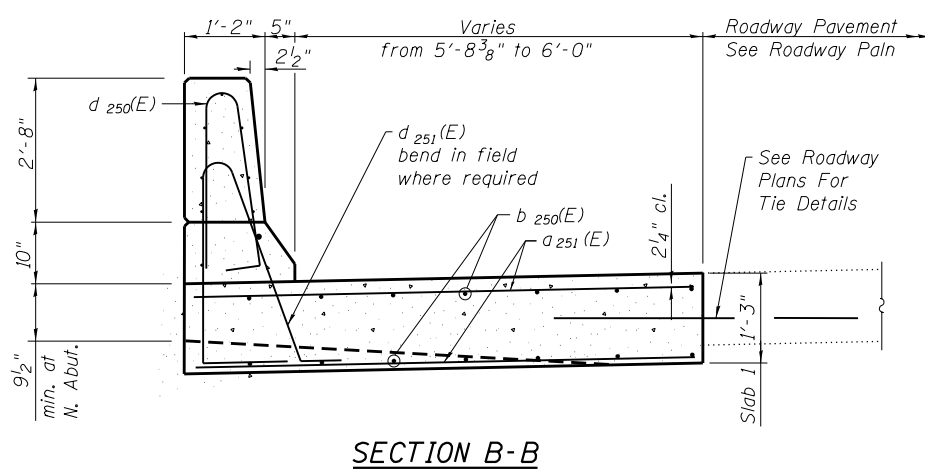
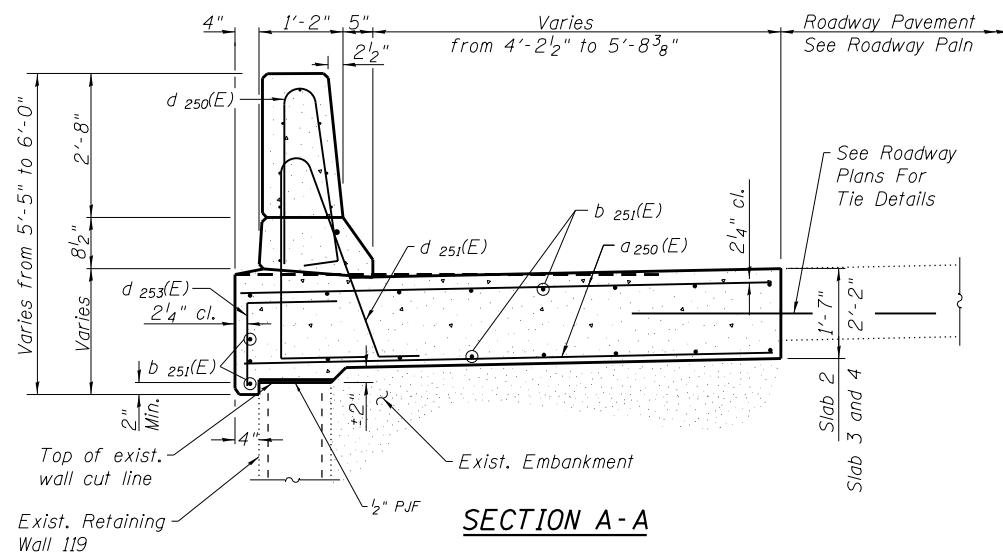
**SECTION C-C**

**TEMPORARY GEOTEXTILE FORM BRACE DETAIL**

Note:  
This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.

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CONTRACT NO. 60F63				ILLINOIS FED. AID PROJECT



Notes:  
The quantity of the Protective Coat is shown on Roadway Plans.  
The cost of parapet transition from the existing to the proposed shape is included with concrete superstructure.

\*\* Order bars full length. See sheet ST24 for field cutting diagram. Cut to fit as shown and use the remainder of bars on the bottom.

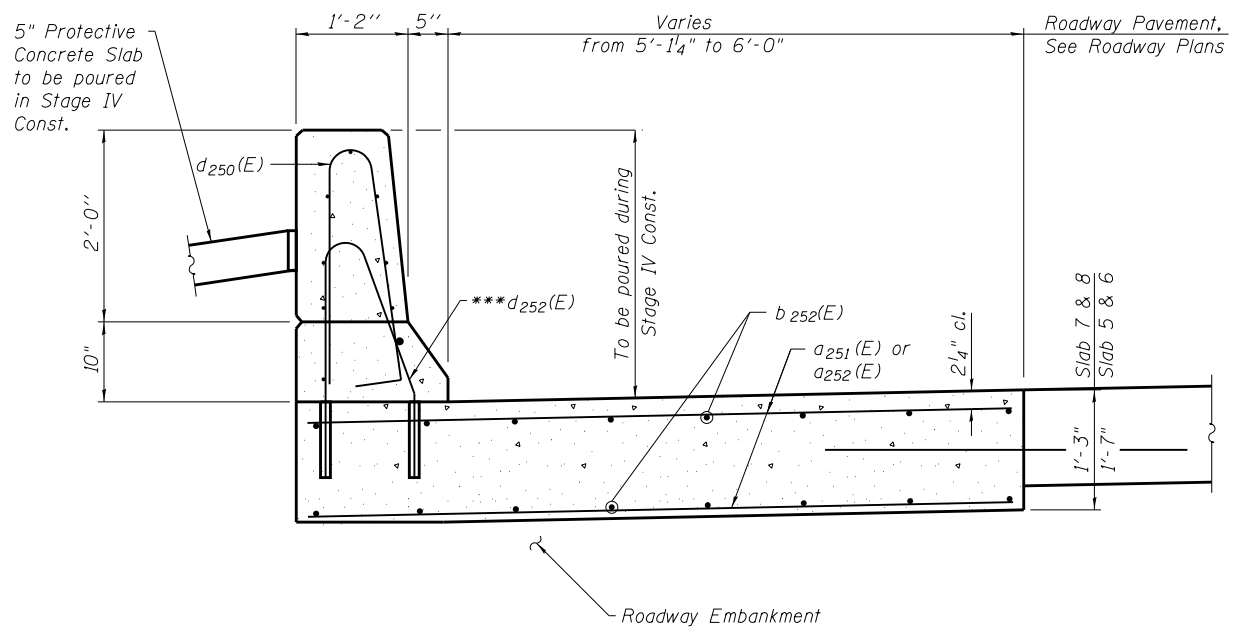
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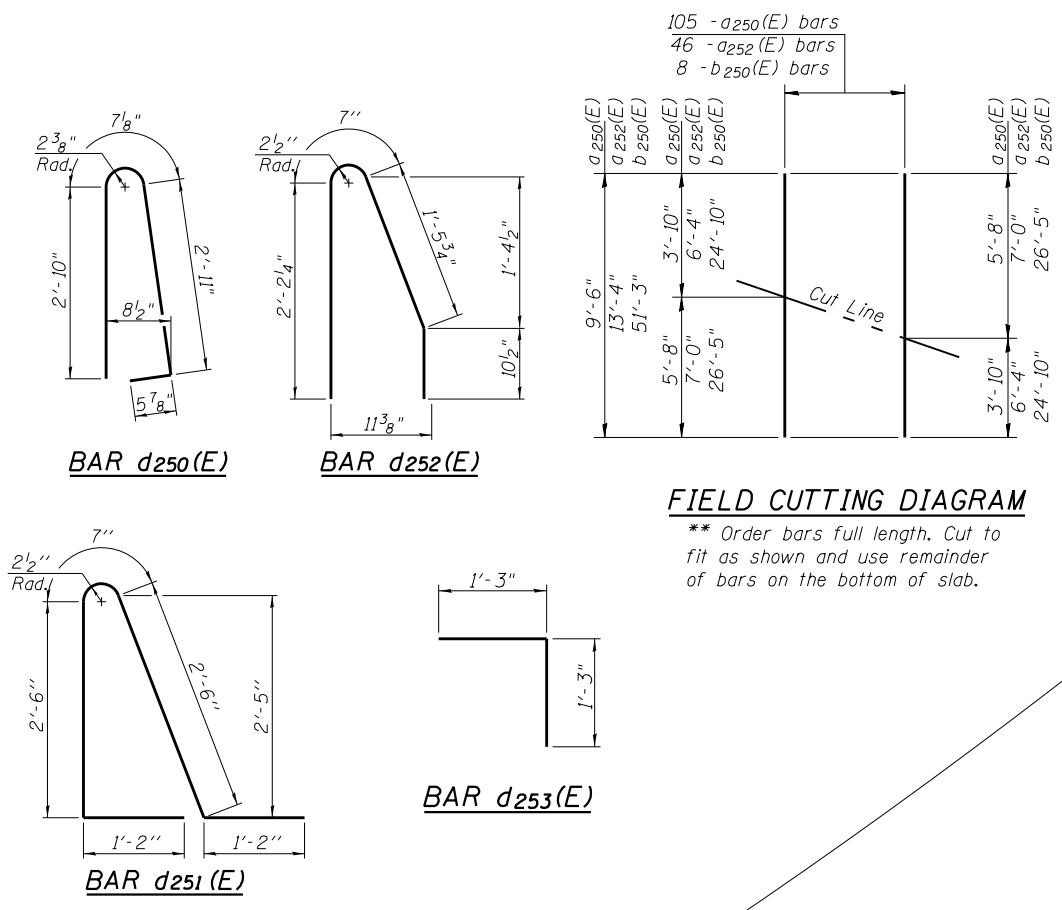
**PARAPET AND ANCHORAGE SLAB I**  
**STRUCTURE NO. 016-2573**  
SHEET NO. ST23 OF ST30 SHEETS

F.A.I. RTÉ. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 305
CONTRACT NO. 60F63				ILLINOIS FED. AID PROJECT



**SECTION THRU PARAPET AND ANCHORAGE SLAB**

\*\*\* Core and set #5 d252(E) bar according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 9"

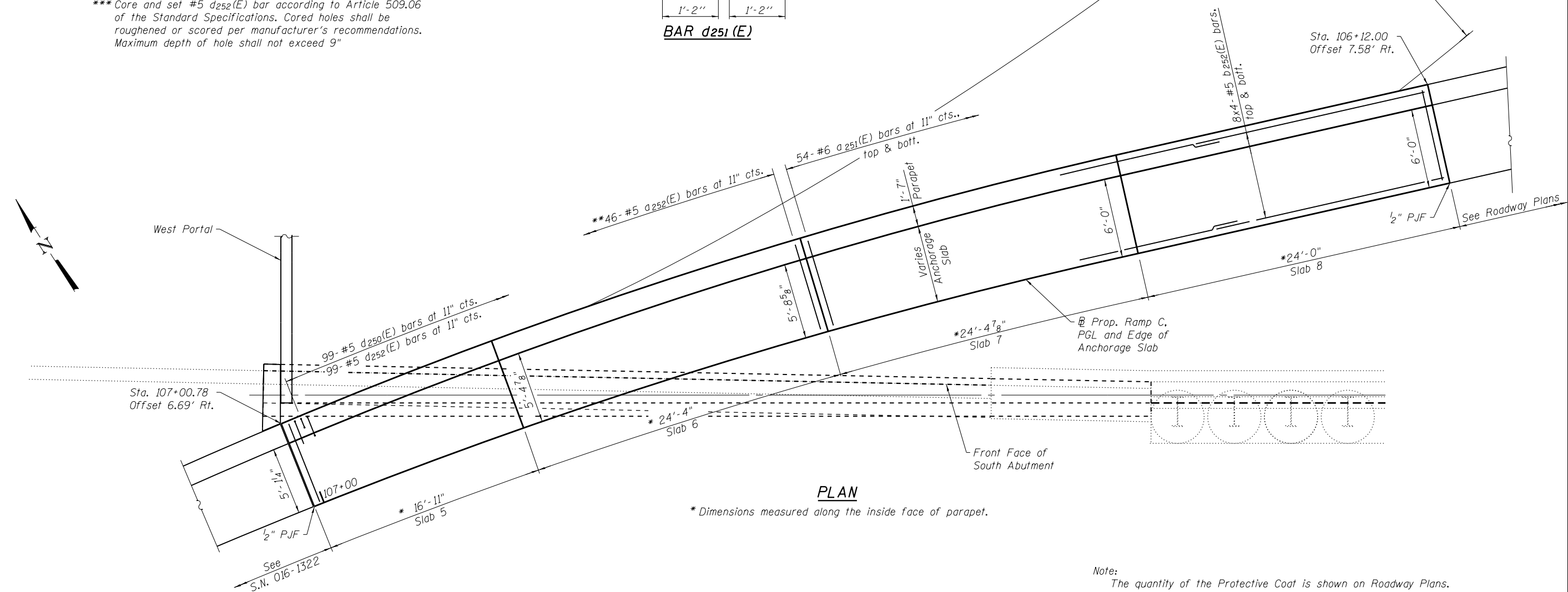


**FIELD CUTTING DIAGRAM**

\*\* Order bars full length. Cut to fit as shown and use remainder of bars on the bottom of slab.

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a 250(E)	105	#5	9'-6"	U
a 251(E)	162	#5	7'-3"	U
a 252(E)	46	#6	13'-4"	U
b 250(E)	8	#5	51'-3"	U
b 251(E)	54	#5	34'-1"	U
b 252(E)	64	#5	25'-2"	U
d 250(E)	231	#5	6'-10"	U
d 251(E)	132	#5	7'-11"	U
d 252(E)	99	#5	5'-2"	U
d 253(E)	105	#5	2'-6"	U
Concrete Superstructure			Cu. Yd.	117.5
Reinforcement Bars, Epoxy Coated			Pound	10,760



**PLAN**

\* Dimensions measured along the inside face of parapet.

Note: The quantity of the Protective Coat is shown on Roadway Plans.

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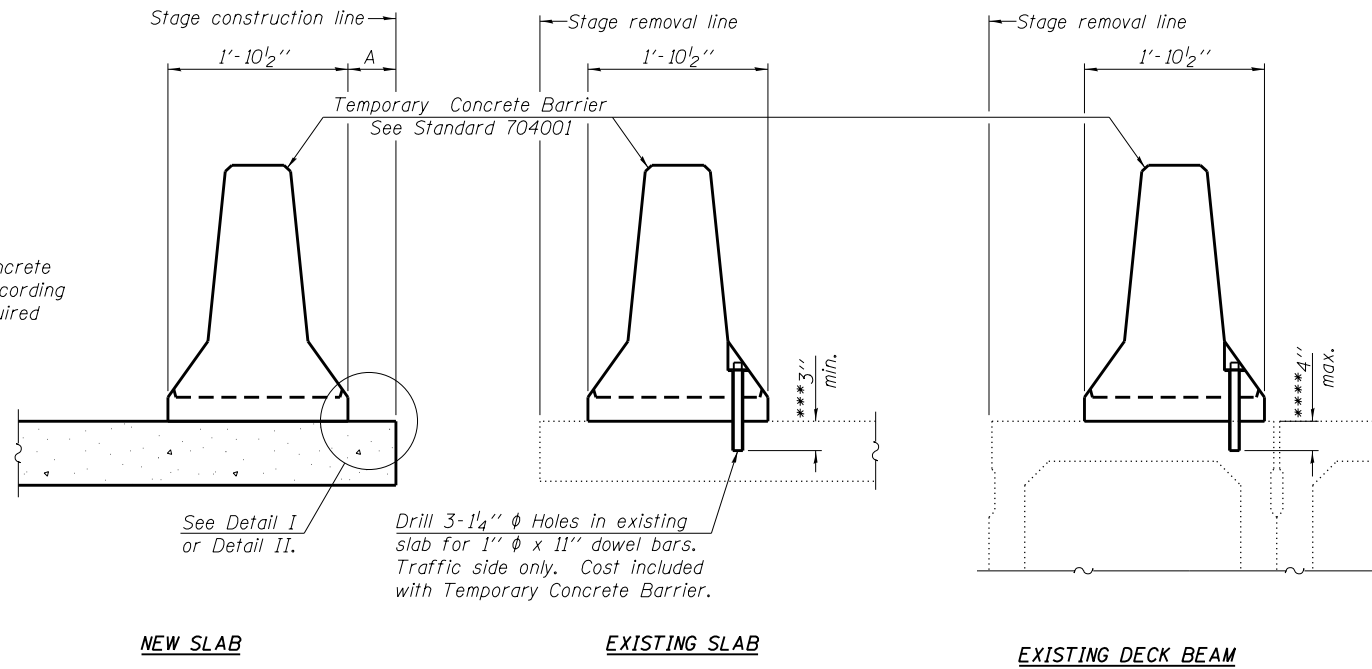
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**PARAPET AND ANCHORAGE SLAB II  
STRUCTURE NO. 016-2573**  
SHEET NO. ST24 OF ST30 SHEETS

F.A.I. RT.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
90/94	0303-474HB-R	COOK	368	306
CONTRACT NO. 60F63			ILLINOIS FED. AID PROJECT	

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



**SECTIONS THRU SLAB OR DECK BEAM**

**NOTES**

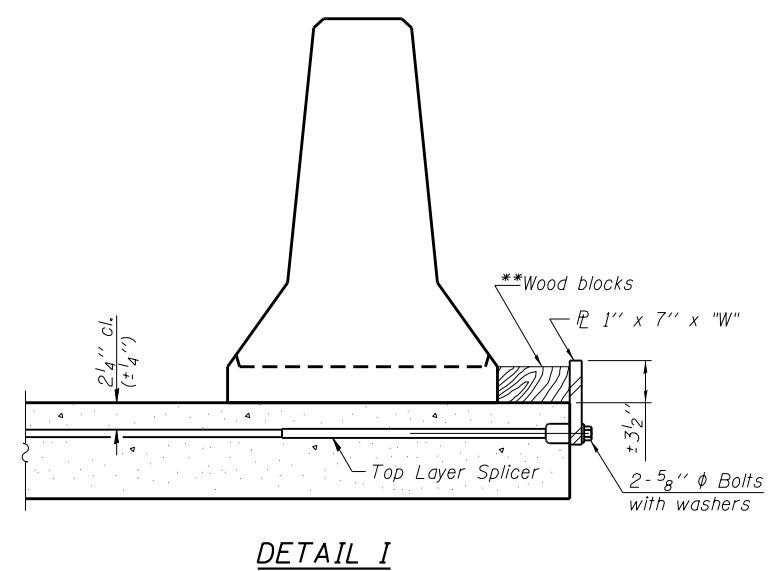
Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

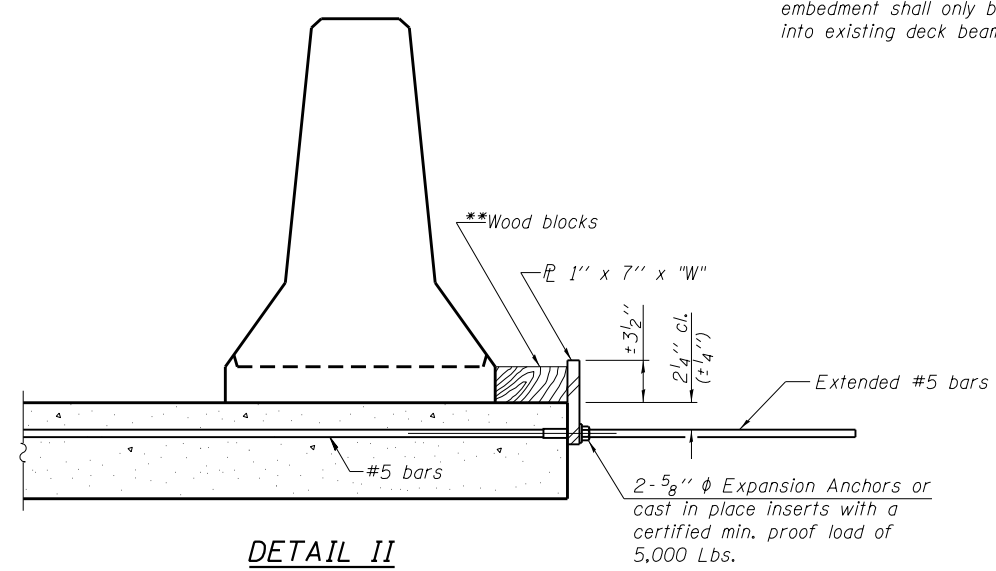
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

\*\*\* Dimension shown is minimum required embedment into concrete.  
If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

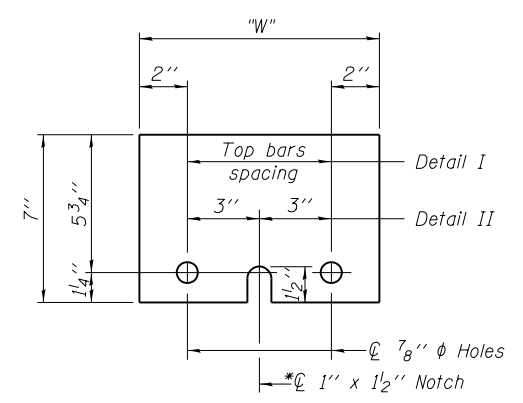
\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



**DETAIL I**



**DETAIL II**



**STEEL RETAINER PL 1" x 7" x "W"**

\* Required only with Detail II

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

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7-1-10

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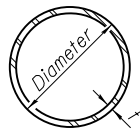
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PLOT SCALE =	DRAWN - PRH	REVISED
PLOT DATE =	CHECKED - EKM	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NO. SN 016-2573**

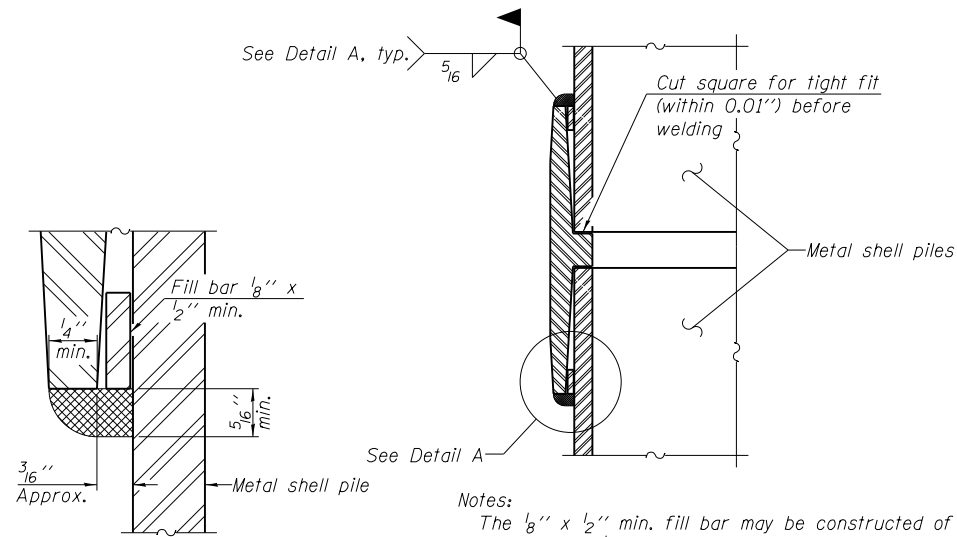
SHEET NO. ST25 OF ST30 SHEETS

F.A.I. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 307
CONTRACT NO. 60F63				ILLINOIS FED. AID PROJECT



**METAL SHELL PILE TABLE**

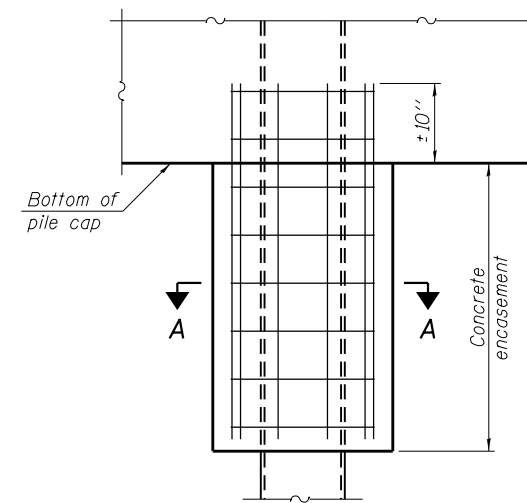
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. <sup>3</sup> /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



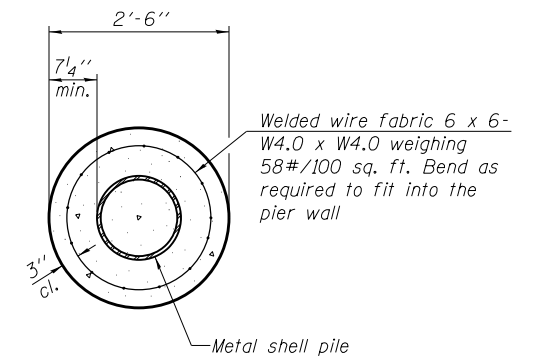
**DETAIL A**

Notes:  
 The  $\frac{1}{8}$ " x  $\frac{1}{2}$ " min. fill bar may be constructed of 2 bars with a  $\frac{1}{8}$ " max. gap between them.  
 Pile segments shall be driven to solid contact with splicer before welding.

**WELDED COMMERCIAL SPLICE**



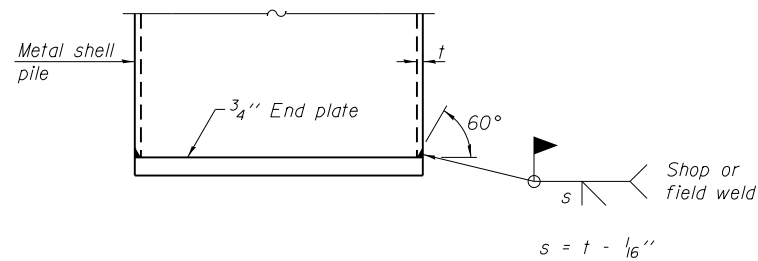
**ELEVATION**



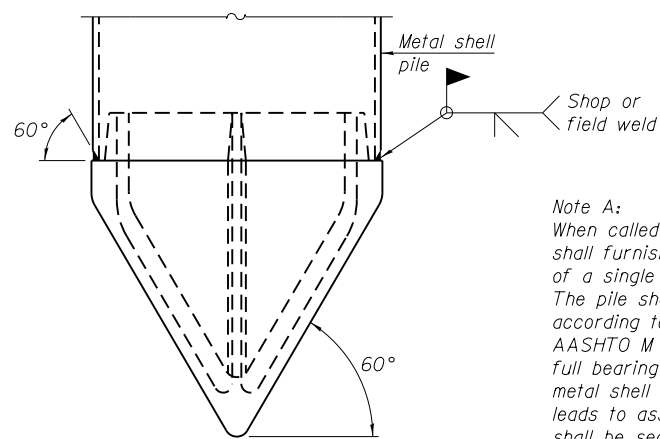
**SECTION A-A**

Note:  
 Forms for encasement may be omitted when soil conditions permit.

**CONCRETE ENCASEMENT AT PIERS**



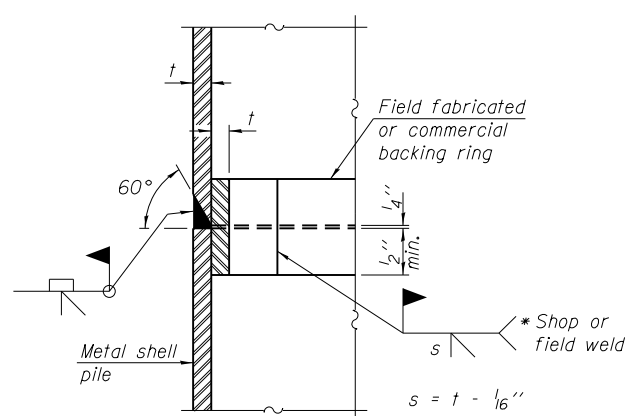
**END PLATE ATTACHMENT**



Note A:  
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.

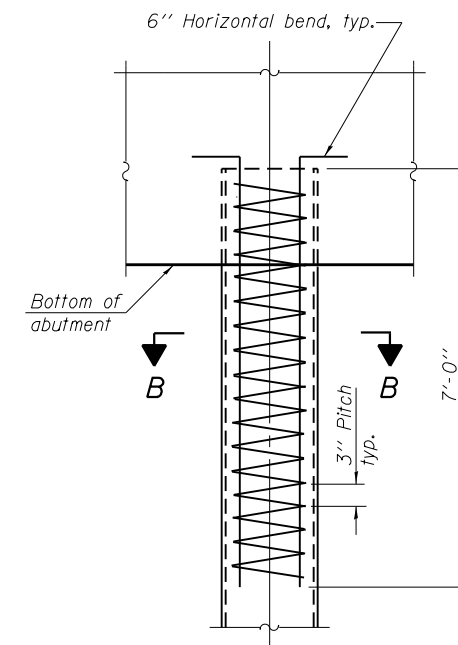
**METAL SHELL PILE SHOE ATTACHMENT**

(See Note A)



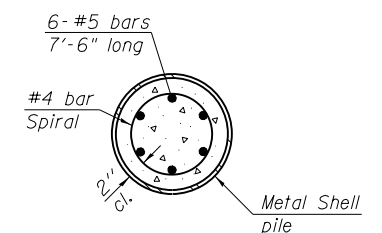
**COMPLETE PENETRATION WELD SPLICE**

\* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



**ELEVATION**

**METAL SHELL REINFORCEMENT AT ABUTMENTS**



**SECTION B-B**

Note:  
 The metal shell piles shall be according to ASTM A 252 Grade 3.

F-MS 1-27-12

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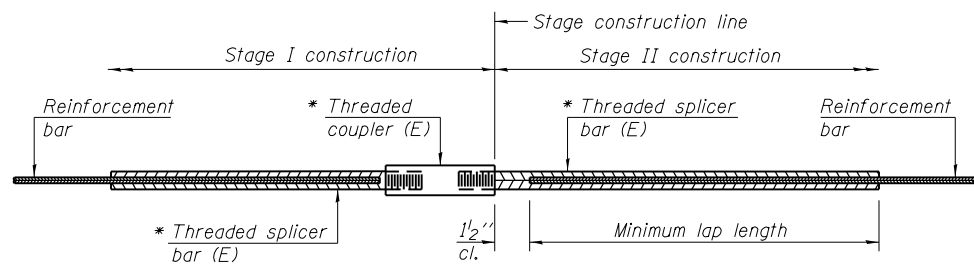
**STATE OF ILLINOIS  
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**METAL SHELL PILE DETAILS  
 STRUCTURE NO. 016-2573**

SHEET NO. ST26 OF ST30 SHEETS

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	308
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				





**STANDARD BAR SPLICER ASSEMBLY**

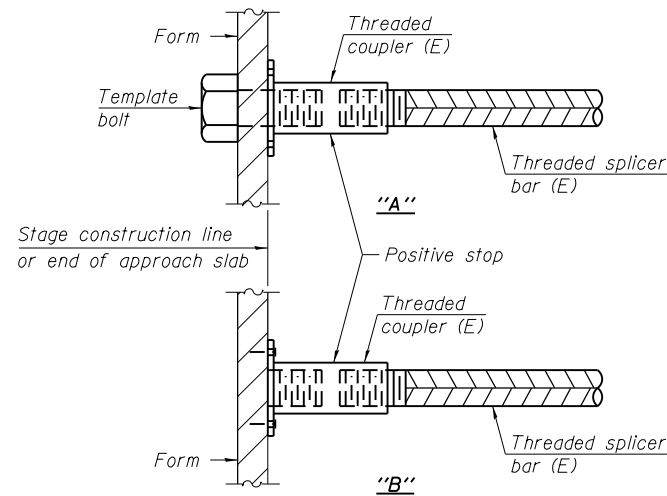
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

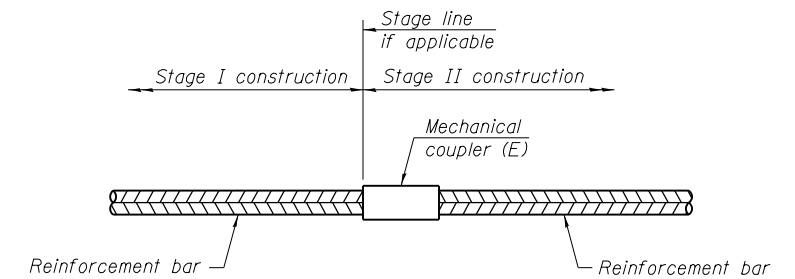
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Concrete Wearing Surface	#4	50	Table 5
Base Slab	#6	58	Table 6



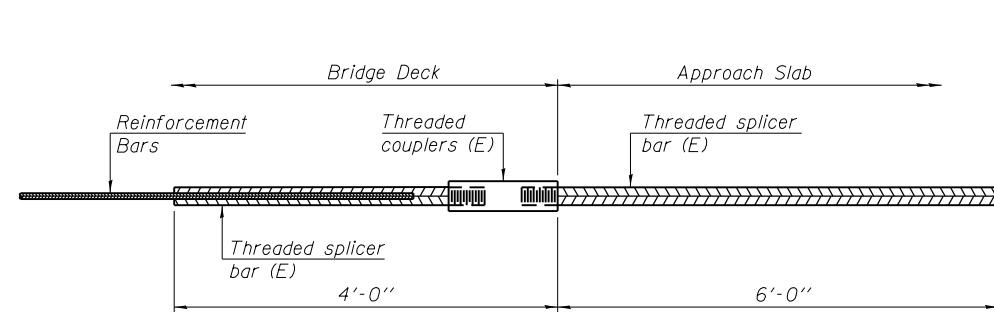
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



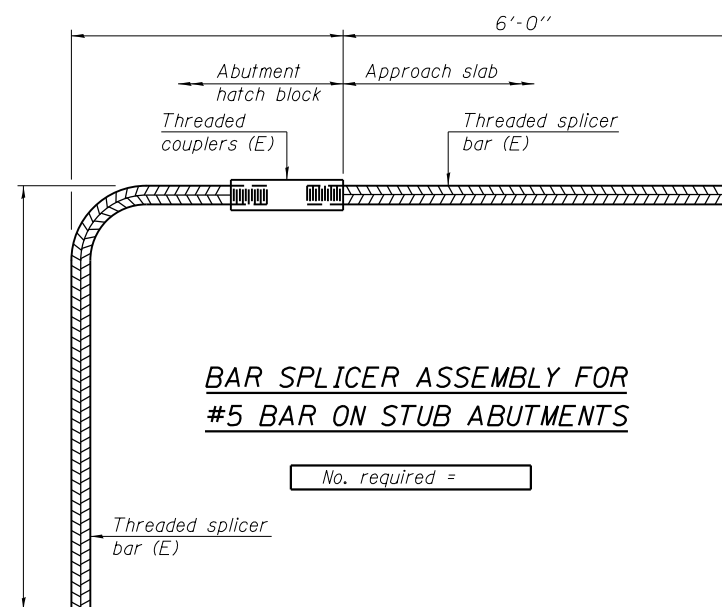
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required
North Abutment Footing	#7	77
South Abutment Stem	#10	61



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required =



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

No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

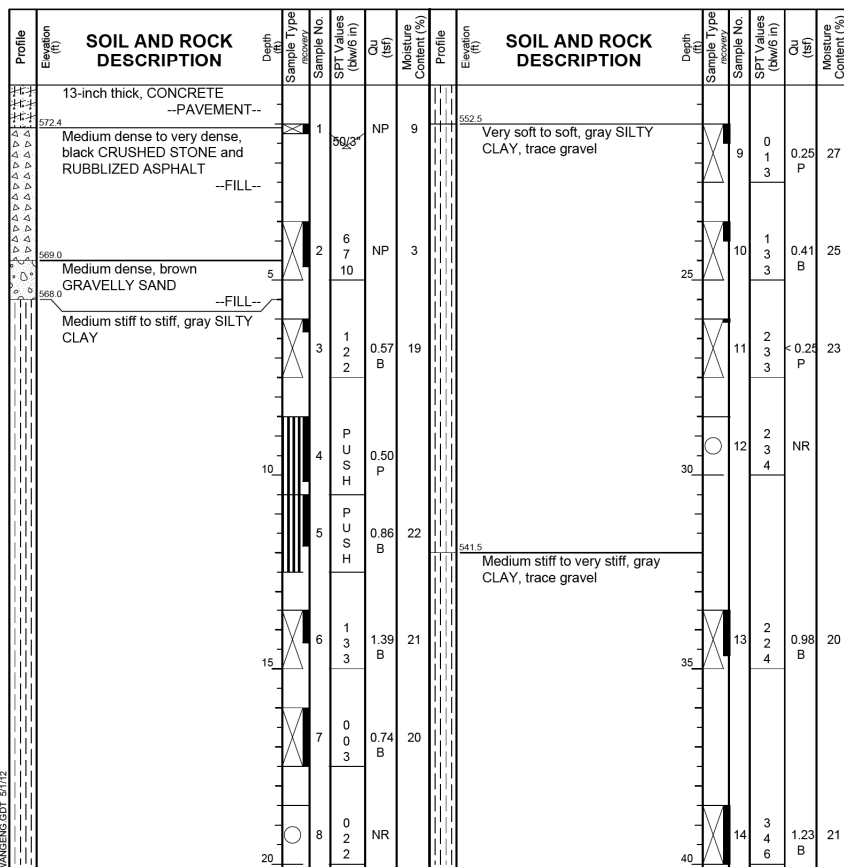
1-27-12

USER NAME =	DESIGNED - EKM	REVISED
	CHECKED - LDB	REVISED
PLOT SCALE =	DRAWN - PRH	REVISED
PLOT DATE =	CHECKED - EKM	REVISED

F.A.I. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 309
CONTRACT NO. 60F63				ILLINOIS FED. AID PROJECT

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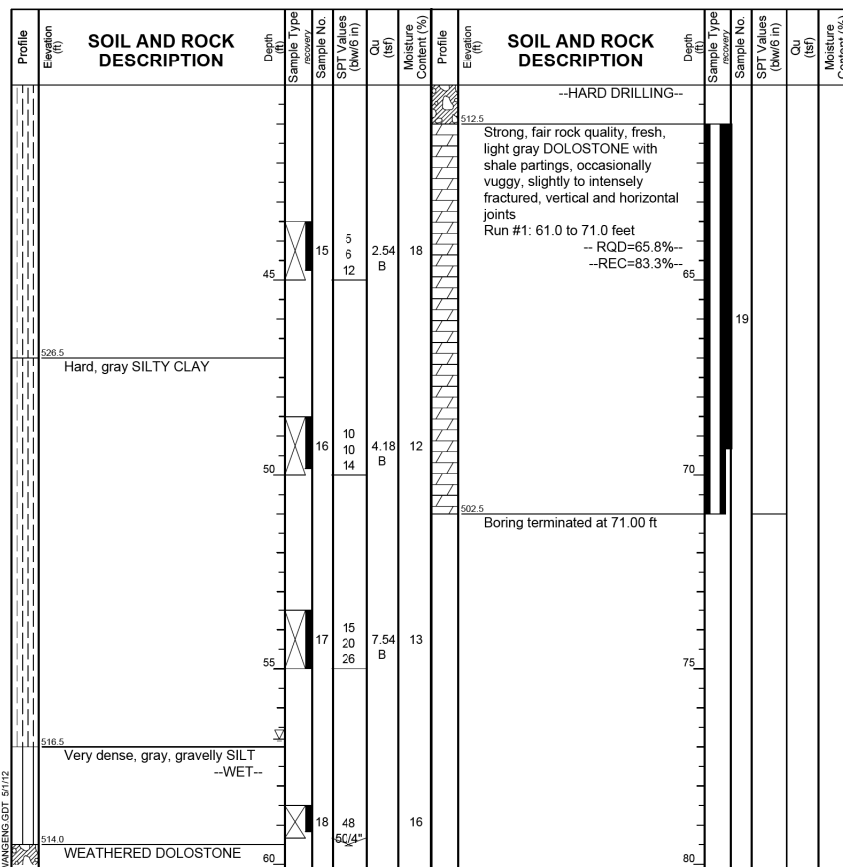
**BORING LOG SB-01** Page 1 of 2  
 WEI Job No.: 486-11-01  
 Client: Collins Engineers, Inc.  
 Project: I-90/94 (Kennedy Expressway) at Ontario Street  
 Location: NE1/4, Sec. 8, R14E and T39N of 3rd PM  
 Datum: NAVD 88  
 Elevation: 573.46 ft  
 North: 1904589.33 ft  
 East: 1169241.56 ft  
 Station: 106+95  
 Offset: 18 RT



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	10-06-2011	Complete Drilling	10-06-2011
Drilling Contractor	WTS	Drill Rig	Mobile B-57
Driller	R&N	Logger	E. Datz
Checked by	S. Sugiarto	Depth to Water	NA
Drilling Method	3.25 IDA HSA; Boring backfilled upon completion		
While Drilling	56.80 ft	At Completion of Drilling	WASHED
Time After Drilling	NA	Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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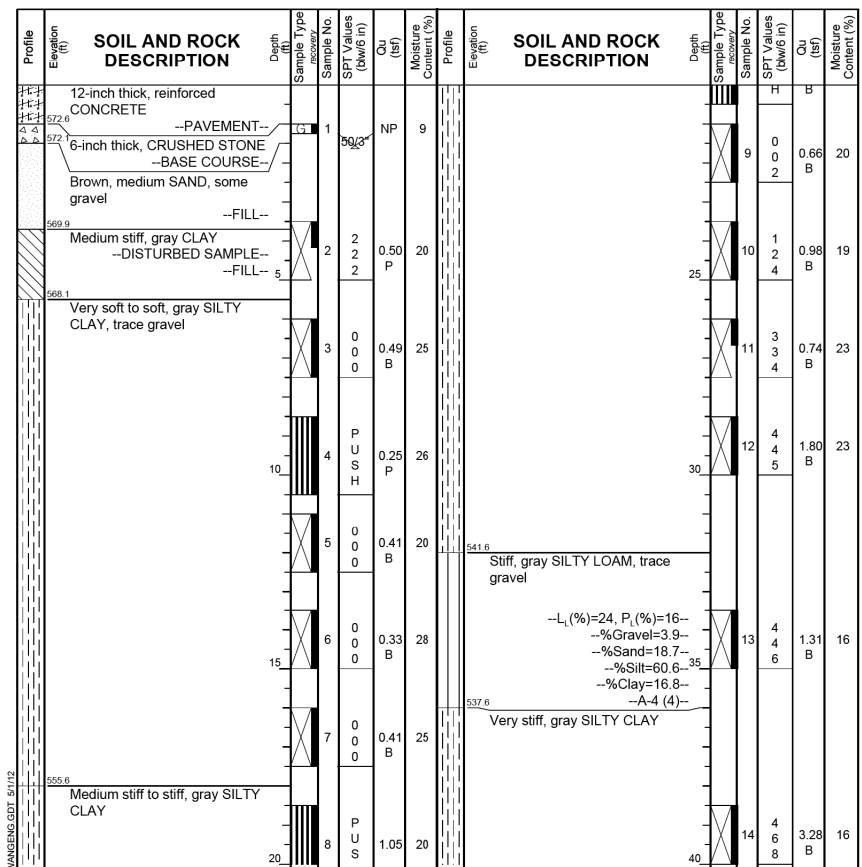
**BORING LOG SB-01** Page 2 of 2  
 WEI Job No.: 486-11-01  
 Client: Collins Engineers, Inc.  
 Project: I-90/94 (Kennedy Expressway) at Ontario Street  
 Location: NE1/4, Sec. 8, R14E and T39N of 3rd PM  
 Datum: NAVD 88  
 Elevation: 573.46 ft  
 North: 1904589.33 ft  
 East: 1169241.56 ft  
 Station: 106+95  
 Offset: 18 RT



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	10-06-2011	Complete Drilling	10-06-2011
Drilling Contractor	WTS	Drill Rig	Mobile B-57
Driller	R&N	Logger	E. Datz
Checked by	S. Sugiarto	Depth to Water	NA
Drilling Method	3.25 IDA HSA; Boring backfilled upon completion		
While Drilling	56.80 ft	At Completion of Drilling	WASHED
Time After Drilling	NA	Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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 Fax: 630 953-9938

**BORING LOG SB-08** Page 1 of 2  
 WEI Job No.: 486-11-01  
 Client: Collins Engineers, Inc.  
 Project: I-90/94 (Kennedy Expressway) at Ontario Street  
 Location: NE1/4, Sec. 8, R14E and T39N of 3rd PM  
 Datum: NAVD 88  
 Elevation: 573.56 ft  
 North: 1904586.30 ft  
 East: 1169292.19 ft  
 Station: 106+38  
 Offset: 1 LT



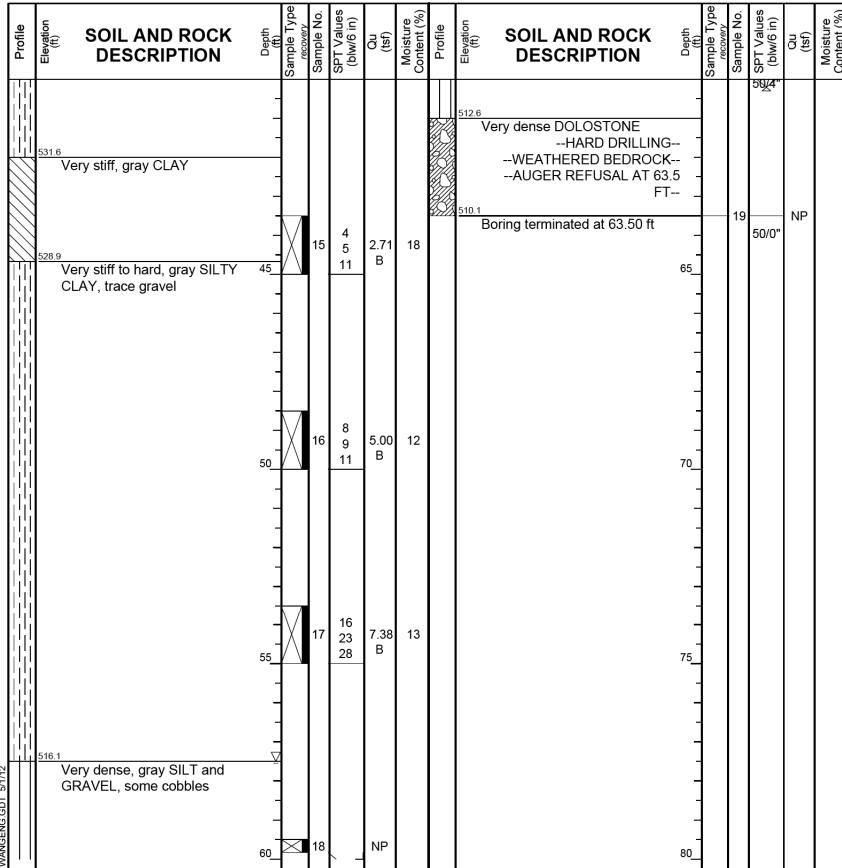
GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	10-05-2011	Complete Drilling	10-05-2011
Drilling Contractor	WTS	Drill Rig	Mobile B-57
Driller	R&N	Logger	E. Datz
Checked by	S. Sugiarto	Depth to Water	NA
Drilling Method	3.25 IDA HSA; Boring backfilled upon completion		
While Drilling	57.50 ft	At Completion of Drilling	WASHED
Time After Drilling	NA	Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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**BORING LOG SB-08**  
 WEI Job No.: 486-11-01  
 Collins Engineers, Inc.  
 Project I-90/94 (Kennedy Expressway) at Ontario Street  
 Location NE1/4, Sec. 8, R14E and T39N of 3rd PM

Datum: NAVD 88  
 Elevation: 573.56 ft  
 North: 1904566.30 ft  
 East: 1169292.19 ft  
 Station: 106+38  
 Offset: 1 LT

Page 2 of 2



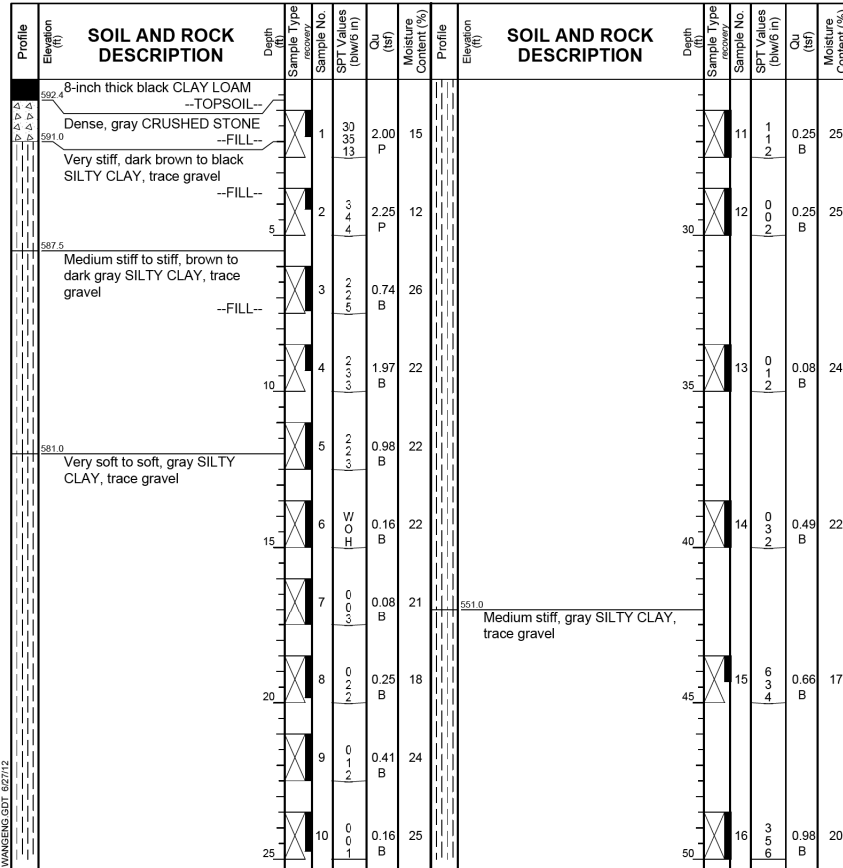
<b>GENERAL NOTES</b>		<b>WATER LEVEL DATA</b>	
Begin Drilling	10-05-2011	Complete Drilling	10-05-2011
Drilling Contractor	WTS	Drill Rig	Mobile B-57
Driller	R&N	Logger	E. Datz
Checked by	S. Sugiarto		
Drilling Method	3.25 IDA HSA; Boring backfilled upon completion		
While Drilling	57.50 ft	At Completion of Drilling	WASHED
Time After Drilling	NA	Depth to Water	NA

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 Fax: 630 953-9938

**BORING LOG SB-09**  
 WEI Job No.: 486-11-01  
 Collins Engineers, Inc.  
 Project I-90/94 (Kennedy Expressway) at Ontario Street  
 Location NE1/4, Sec. 8, R14E and T39N of 3rd PM

Datum: NAVD 88  
 Elevation: 593.05 ft  
 North: 1904603.38 ft  
 East: 1169321.36 ft  
 Station: 106+25  
 Offset: 53 RT

Page 1 of 2



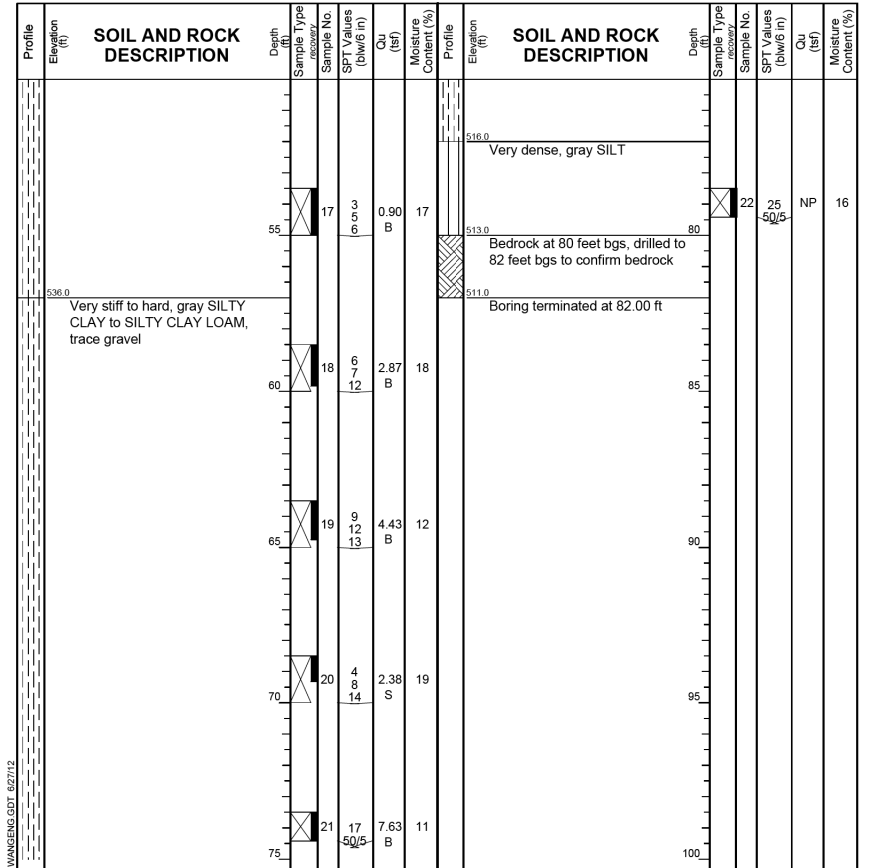
<b>GENERAL NOTES</b>		<b>WATER LEVEL DATA</b>	
Begin Drilling	06-04-2012	Complete Drilling	06-04-2012
Drilling Contractor	WTS	Drill Rig	Mobile B-57
Driller	R&J	Logger	A. Kurnia
Checked by	S. Sugiarto		
Drilling Method	2.25 SSA to 15 feet and Mud Rotary thereafter;		
While Drilling	DRY	At Completion of Drilling	DRY
Time After Drilling	NA	Depth to Water	NA

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**BORING LOG SB-09**  
 WEI Job No.: 486-11-01  
 Collins Engineers, Inc.  
 Project I-90/94 (Kennedy Expressway) at Ontario Street  
 Location NE1/4, Sec. 8, R14E and T39N of 3rd PM

Datum: NAVD 88  
 Elevation: 593.05 ft  
 North: 1904603.38 ft  
 East: 1169321.36 ft  
 Station: 106+25  
 Offset: 53 RT

Page 2 of 2



<b>GENERAL NOTES</b>		<b>WATER LEVEL DATA</b>	
Begin Drilling	06-04-2012	Complete Drilling	06-04-2012
Drilling Contractor	WTS	Drill Rig	Mobile B-57
Driller	R&J	Logger	A. Kurnia
Checked by	S. Sugiarto		
Drilling Method	2.25 SSA to 15 feet and Mud Rotary thereafter;		
While Drilling	DRY	At Completion of Drilling	DRY
Time After Drilling	NA	Depth to Water	NA



USER NAME =	DESIGNED - EKM	REVISED
PLOT SCALE =	CHECKED - LDB	REVISED
PLOT DATE =	DRAWN - PRH	REVISED
	CHECKED - EKM	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

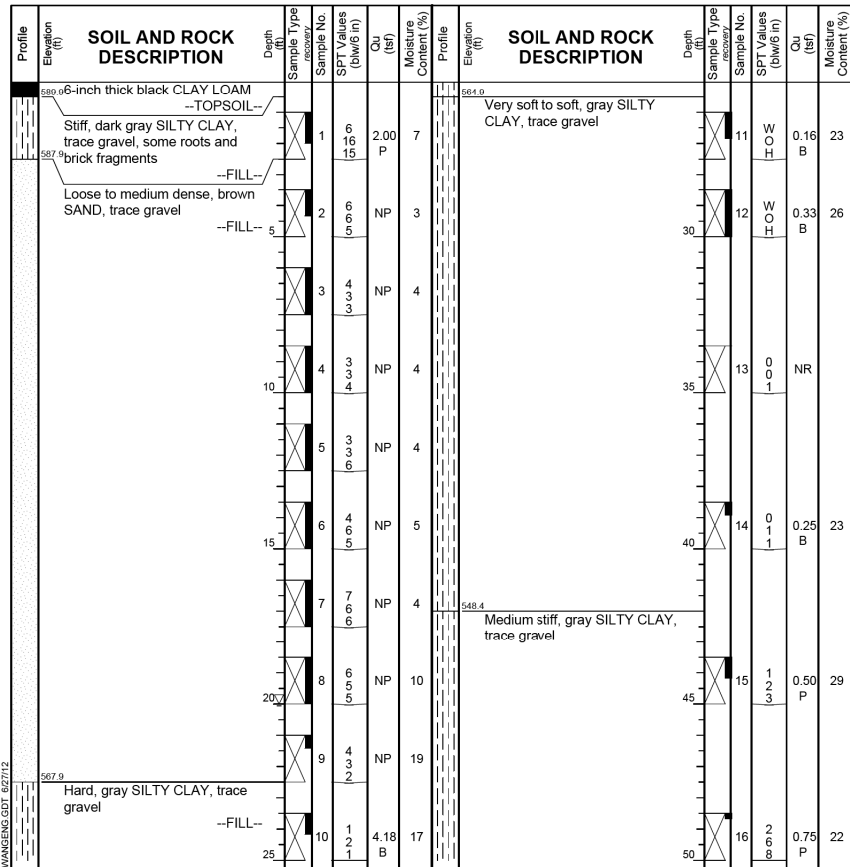
SOIL BORINGS II  
 STRUCTURE NO. 016-2573  
 SHEET NO. ST29 OF ST30 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	311
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

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

**BORING LOG SB-10** Page 1 of 2  
 WEI Job No.: 486-11-01  
 Client: **Collins Engineers, Inc.**  
 Project: **I-90/94 (Kennedy Expressway) at Ontario Street**  
 Location: **NE1/4, Sec. 8, R14E and T39N of 3rd PM**

Datum: NAVD 88  
 Elevation: 590.37 ft  
 North: 1904628.29 ft  
 East: 1169265.60 ft  
 Station: 106+80  
 Offset: 61 RT

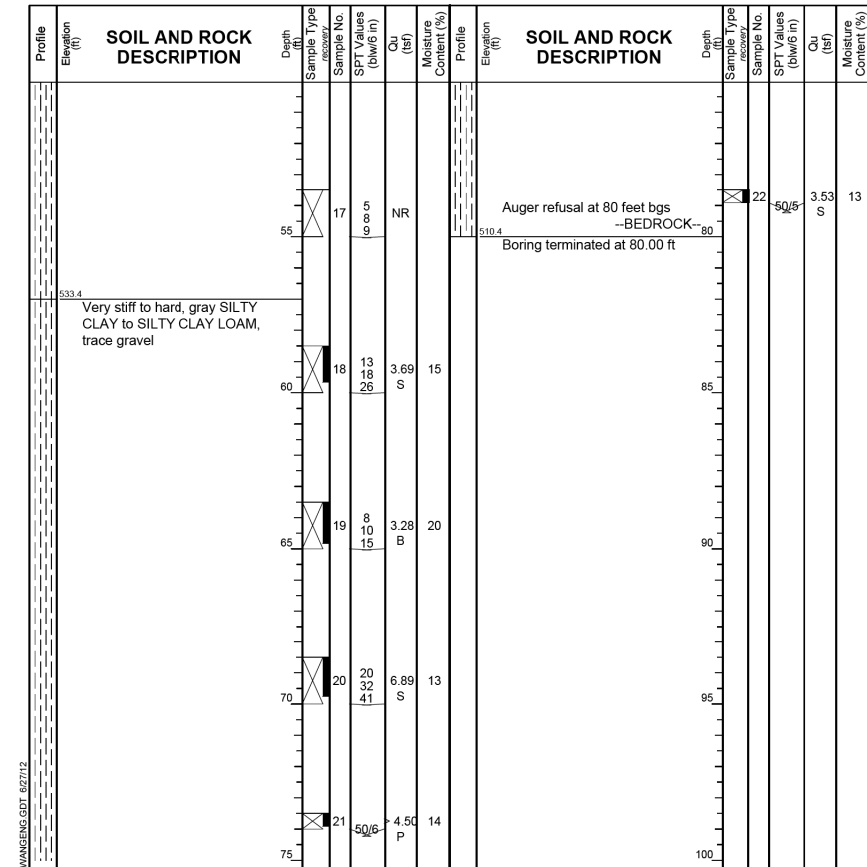


GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	06-01-2012	Complete Drilling	06-01-2012
Drilling Contractor	WTS	Drill Rig	Mobile B-57
Driller	R&J	Logger	A. Kurnia
Checked by	S. Sugiarto	Time After Drilling	NA
Drilling Method	2.25 SSA to 25 feet and Mud Rotary thrafter;	Depth to Water	NA
Boring backfilled upon completion		The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.	

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**BORING LOG SB-10** Page 2 of 2  
 WEI Job No.: 486-11-01  
 Client: **Collins Engineers, Inc.**  
 Project: **I-90/94 (Kennedy Expressway) at Ontario Street**  
 Location: **NE1/4, Sec. 8, R14E and T39N of 3rd PM**

Datum: NAVD 88  
 Elevation: 590.37 ft  
 North: 1904628.29 ft  
 East: 1169265.60 ft  
 Station: 106+80  
 Offset: 61 RT



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	06-01-2012	Complete Drilling	06-01-2012
Drilling Contractor	WTS	Drill Rig	Mobile B-57
Driller	R&J	Logger	A. Kurnia
Checked by	S. Sugiarto	Time After Drilling	NA
Drilling Method	2.25 SSA to 25 feet and Mud Rotary thrafter;	Depth to Water	NA
Boring backfilled upon completion		The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.	



USER NAME =	DESIGNED - EKM	REVISED
PLOT SCALE =	CHECKED - LDB	REVISED
PLOT DATE =	DRAWN - PRH	REVISED
	CHECKED - EKM	REVISED

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

**SOIL BORINGS III**  
**STRUCTURE NO. 016-2573**  
 SHEET NO. ST30 OF ST30 SHEETS

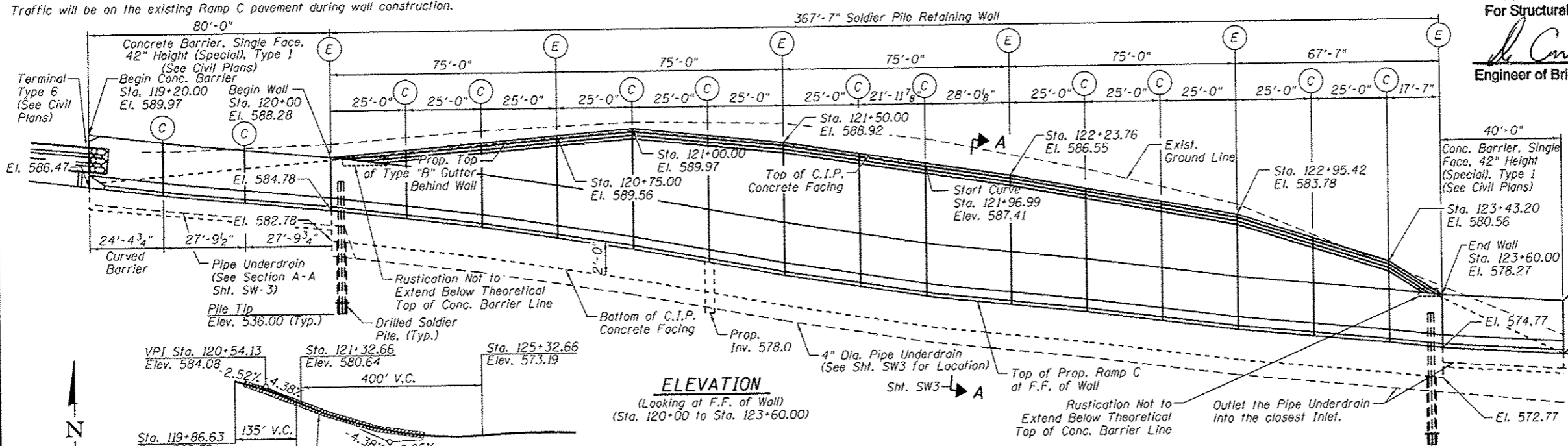
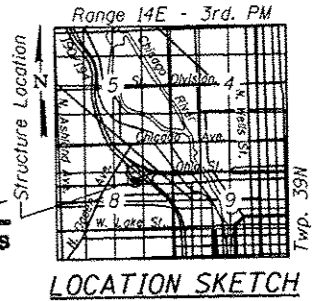
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	312
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

Bench Mark: BM 08 - Second bolt from maintenance door "X" mast tower No. 6 SGH3 in infield between I-90/94 and Ohio Ramp A, +/- 35 ft west of brick maintenance building, Sta. 109+43, Offset 80 ft Rt., El. 590.735.

Existing Structure: None. No Salvage.

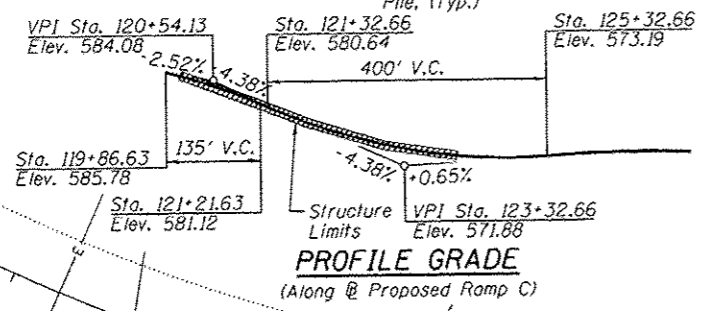
Traffic will be on the existing Ramp C pavement during wall construction.

**APPROVED**  
For Structural Adequacy Only  
*[Signature]*  
Engineer of Bridges & Structures



Signed: Ghulam Masoom Kamol, S.E.  
I.L. Lic. No. 081-006522  
Expires 11-30-2014  
Date: 3/8/13

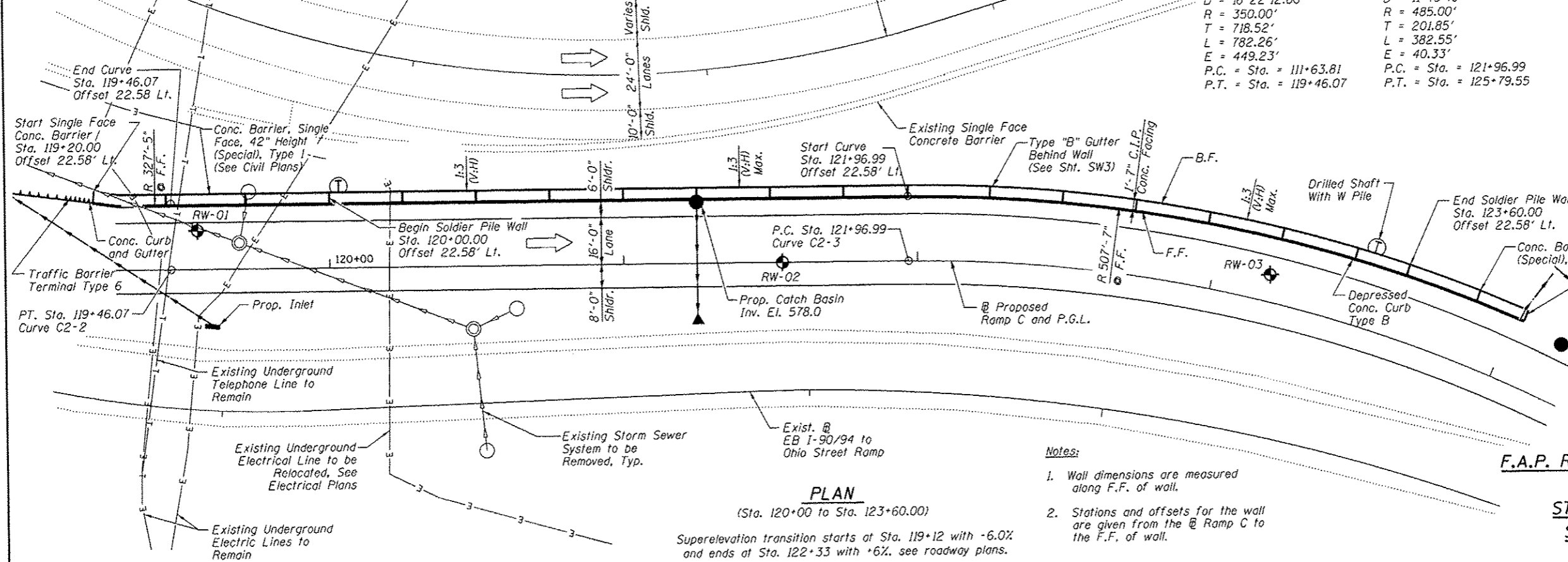
- Legend:**
- F.F. Front Face
  - B.F. Back Face
  - C.I.P. Cast in Place
  - (C) Construction Joint
  - (E) Expansion Joint
  - (B) Boring Location



CURVE C2-2 DATA	CURVE C2-3 DATA
P.I. Sta. = 118+82.33	P.I. Sta. = 123+98.85
$\Delta = 128^{\circ}03'25.89''$ (LT)	$\Delta = 45^{\circ}11'35''$ (RT)
D = 16°22'12.80"	D = 11°48'49"
R = 350.00'	R = 485.00'
T = 718.52'	T = 201.85'
L = 782.26'	L = 382.55'
E = 449.23'	E = 40.33'
P.C. = Sta. = 111+63.81	P.C. = Sta. = 121+96.99
P.T. = Sta. = 119+46.07	P.T. = Sta. = 125+79.55

**DESIGN STRESSES**  
**FIELD UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
fy = 50,000 psi (M270 Grade 50)

**DESIGN SPECIFICATIONS**  
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition



- Notes:**
- Wall dimensions are measured along F.F. of wall.
  - Stations and offsets for the wall are given from the Ramp C to the F.F. of wall.

**GENERAL PLAN**  
**ONTARIO STREET TO**  
**E.B. I-90/94 (RAMP C)**  
**F.A.P. RT. 0383 - SEC. 0303-474HB-R**  
**COOK COUNTY**  
**STATION 120+00 TO 123+60**  
**STRUCTURE NO. 016-Z014**

	USER NAME	DESIGNED - GFP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PLAN</b> <b>STRUCTURE NO. 016-Z014</b> SHEET NO. SW1 OF SW11 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE	CHECKED - GMK	REVISED -			90/94	0303-474HB-R	COOK	368	313	
	PLOT DATE	DRAWN - GFP	REVISED -								CONTRACT NO. 60F63
		DATE - 3/5/2013	REVISED -								ILLINOIS FED. AID PROJECT

**INDEX OF SHEETS**

- SW1 General Plan
- SW2 General Notes, Index of Sheets and Total Bill of Material
- SW3 Typical Wall Sections and Drainage Details
- SW4 Plan and Elevation (Sta. 120+00.00 to 120+75.00)
- SW5 Plan and Elevation (Sta. 120+75.00 to 121+50.00)
- SW6 Plan and Elevation (Sta. 121+50.00 to 122+23.76)
- SW7 Plan and Elevation (Sta. 122+23.76 to 122+95.42)
- SW8 Plan and Elevation (Sta. 122+95.42 to 123+60.00)
- SW9 Wall Cross Sections and Details
- SW10 Boring Logs I
- SW11 Boring Logs II

**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. 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 psi.
3. Concrete Sealer shall be applied to all exposed surfaces of the concrete facing.
4. All exposed edges shall have a 3/4" chamfer, except as shown otherwise.
5. The Contractor shall locate all existing utilities prior to construction. Any damage to utilities to be repaired at the Contractor's expense.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	510.7
Concrete Structures	Cu. Yd.	144.9
Stud Shear Connectors	Each	1,172
Reinforcement Bars, Epoxy Coated	Pound	22,166
Concrete Sealer	Sq. Ft.	3,018
Geocomposite Wall Drain	Sq. Yd.	117
Untreated Timber Lagging	Sq. Ft.	2,743
Furnishing Soldier Piles (W Section)	Foot	3,992
Pipe Underdrains for Structures 4"	Foot	368
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	28,183



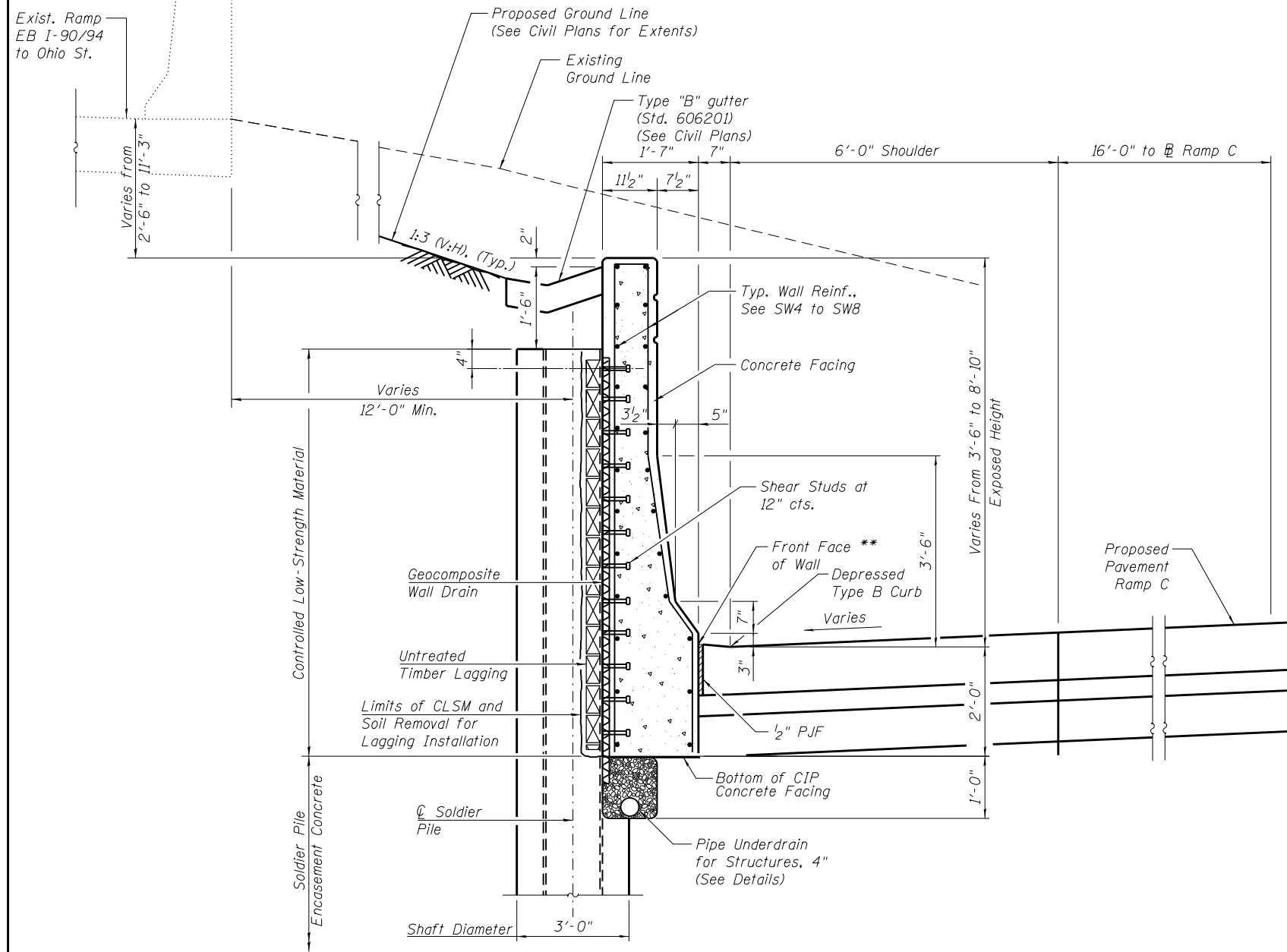
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	CHECKED - GMK	REVISED -
PLOT SCALE =	DRAWN - GFP	REVISED -
PLOT DATE =	DATE - 3/5/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS  
AND TOTAL BILL OF MATERIAL**

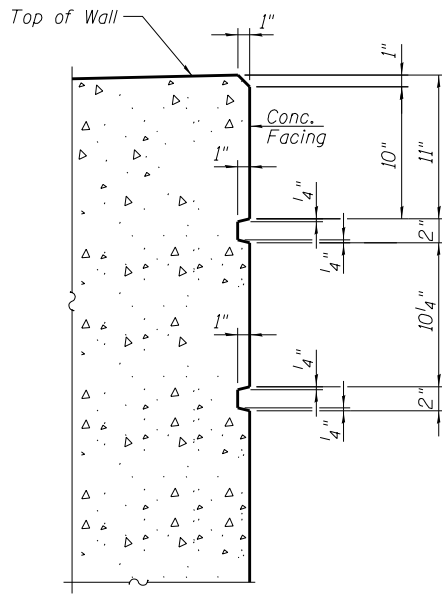
SHEET NO. SW2 OF SW11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	314
CONTRACT NO. 60F63			ILLINOIS FED. AID PROJECT	

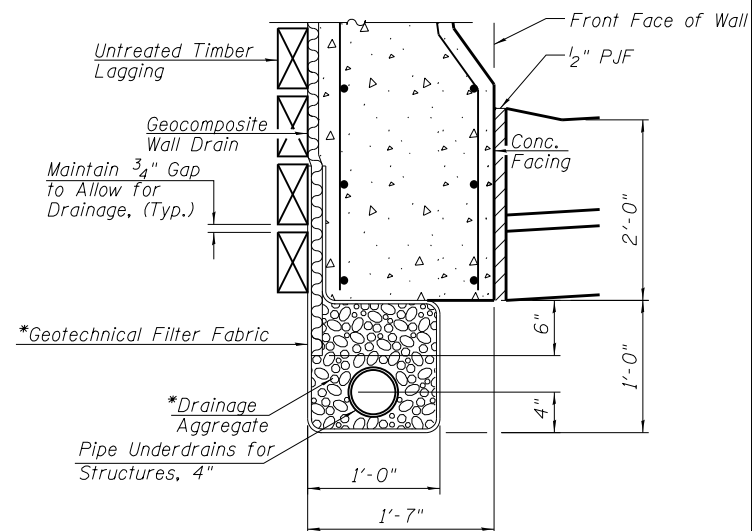


**SECTION A-A**  
Thru Soldier Pile Wall

\*\* Location of point on Front Face that stations, offsets and top of Proposed Ramp C elevations are referenced to.

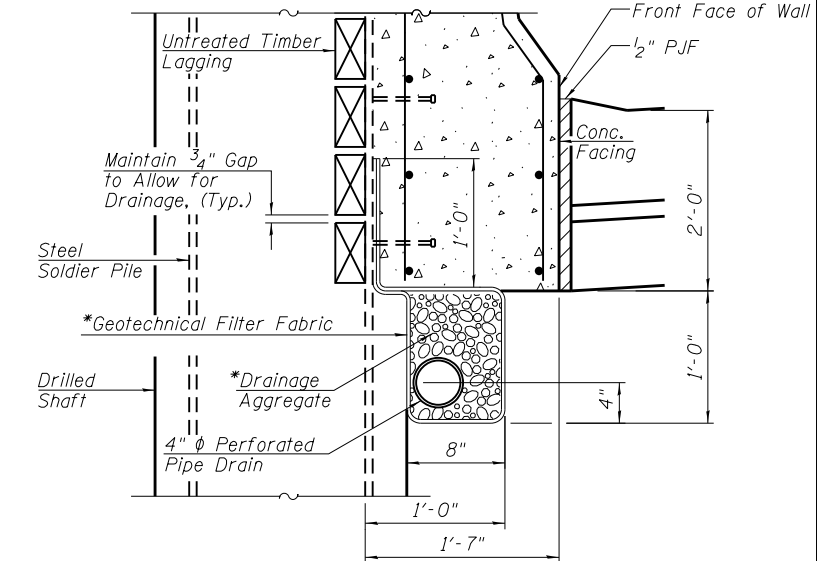


**RUSTICATION DETAIL**  
AT TOP OF WALL



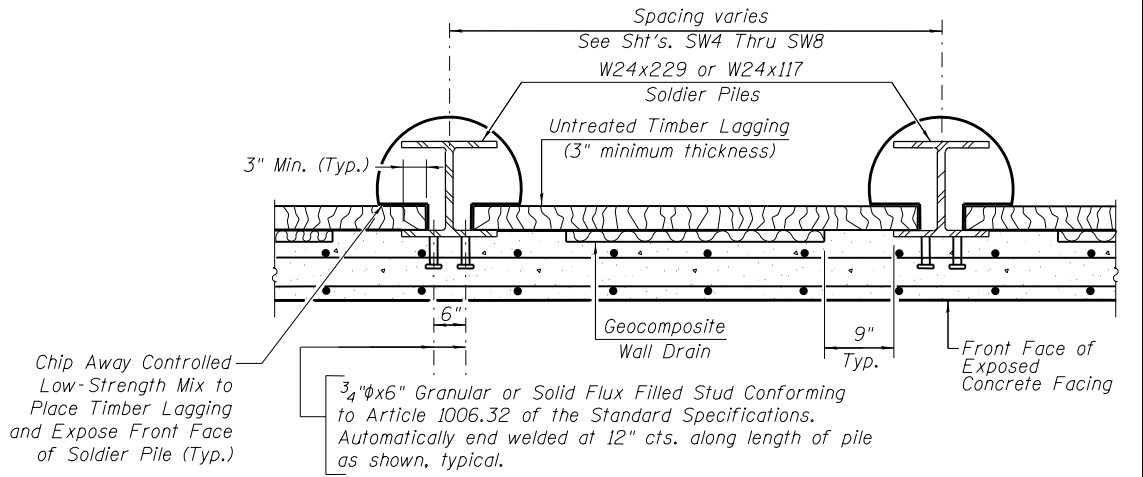
**PIPE UNDERDRAIN DETAIL**  
BETWEEN SOLDIER PILES

\*Included in the cost for Pipe Underdrains For Structures 4"



**PIPE UNDERDRAIN DETAIL**  
AT SOLDIER PILES

\*Included in the cost for Pipe Underdrains For Structures 4"



**TYPICAL SECTION THRU**  
SOLDIER PILE WALL



USER NAME =	DESIGNED - GFP	REVISED -
PLOT SCALE =	CHECKED - GMK	REVISED -
PLOT DATE =	DRAWN - GFP	REVISED -
	DATE - 3/5/2013	REVISED -

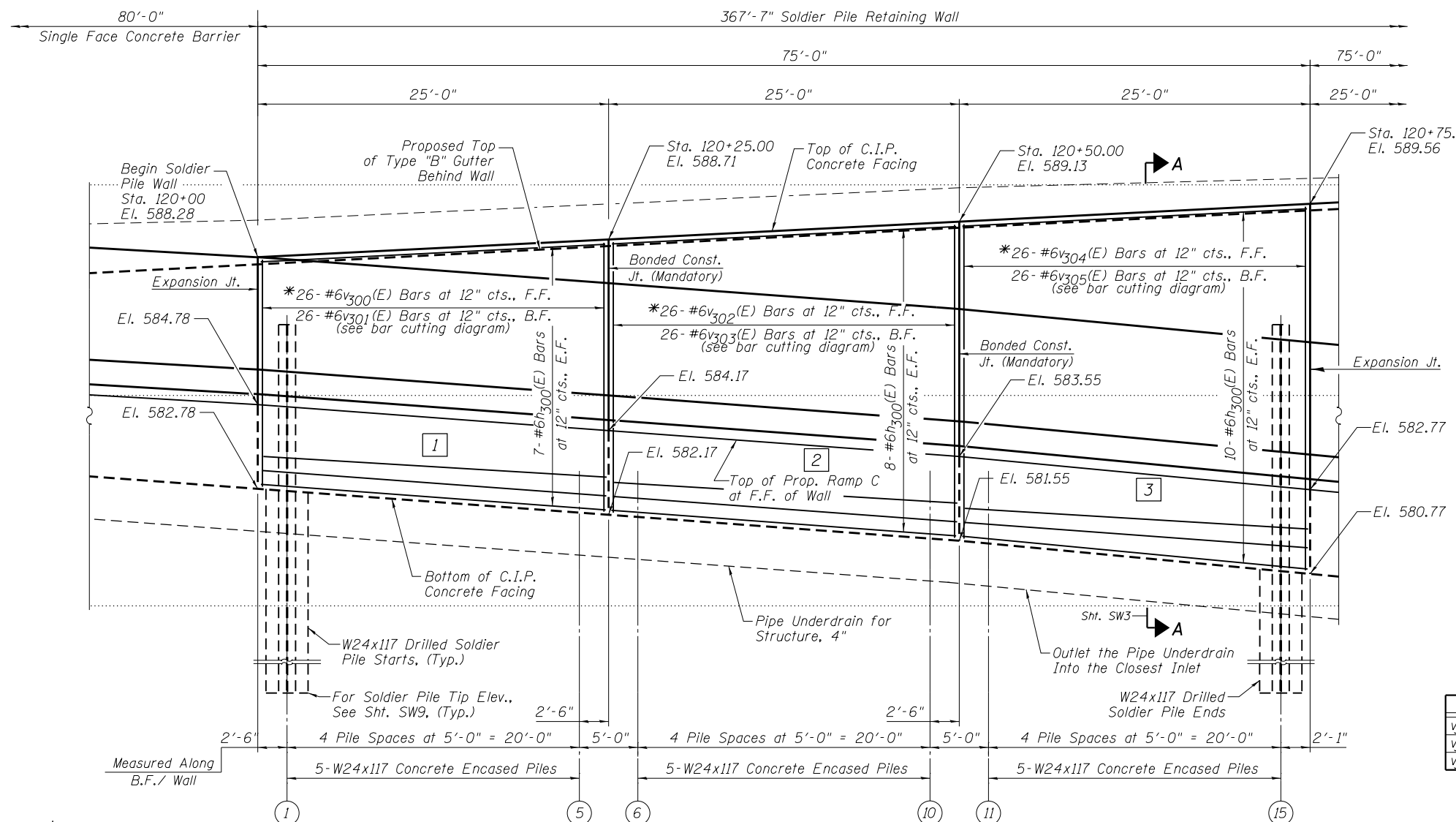
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TYPICAL WALL SECTIONS AND DRAINAGE DETAILS**  
**STRUCTURE NO. 016-2014**

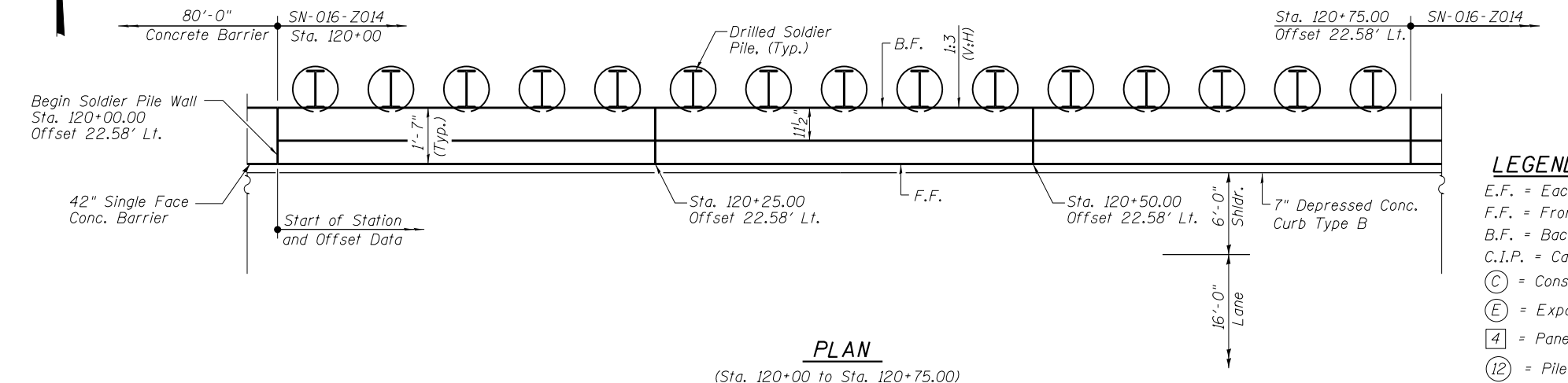
SHEET NO. SW3 OF SW11 SHEETS

F.A.I. R.T.E. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 315
CONTRACT NO. 60F63				

ILLINOIS FED. AID PROJECT



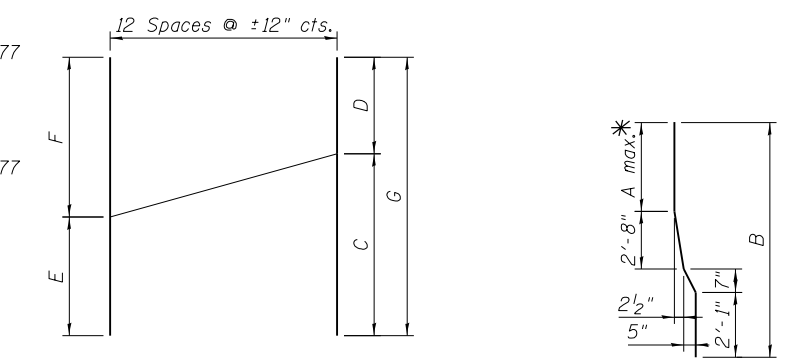
**ELEVATION**  
(Looking at F.F. of Wall)  
(Sta. 120+00 to Sta. 120+75.00)



**PLAN**  
(Sta. 120+00 to Sta. 120+75.00)

- Notes:**
1. Wall dimensions are measured along F.F. of wall. See sheet SW1 for location.
  2. Stations and offsets for the wall are given from the Ramp C to the F.F. of wall.
  3. Fan Horizontal bars (h Bars) at 12" cts. max.

REINFORCEMENT BAR LIST				
Bar	No.	Size	Length	Shape
h <sub>300(E)</sub>	50	#6	24'-8"	—
v <sub>300(E)</sub>	26	#6	6'-5"	—
v <sub>301(E)</sub>	13	#6	11'-5"	—
v <sub>302(E)</sub>	26	#6	7'-5"	—
v <sub>303(E)</sub>	13	#6	13'-6"	—
v <sub>304(E)</sub>	26	#6	8'-8"	—
v <sub>305(E)</sub>	13	#6	15'-9"	—



BARS v <sub>301(E)</sub> , v <sub>303(E)</sub> , v <sub>305(E)</sub>					
Bar	C	D	E	F	G
v <sub>301(E)</sub>	6'-3"	5'-2"	5'-9"	5'-8"	11'-5"
v <sub>303(E)</sub>	7'-3"	6'-3"	6'-10"	6'-8"	13'-6"
v <sub>305(E)</sub>	8'-6"	7'-3"	8'-0"	7'-9"	15'-9"

BARS v <sub>300(E)</sub> , v <sub>302(E)</sub> , v <sub>304(E)</sub>		
Bar	A	B
v <sub>300(E)</sub>	11"	6'-3"
v <sub>302(E)</sub>	1'-11"	7'-3"
v <sub>304(E)</sub>	3'-2"	8'-6"

**BAR CUTTING DIAGRAM**  
\* Order Bars Full Length, Cut to Fit

\* Cut in Field to Fit

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
Structure Excavation	Cu. Yd.	82.2
Concrete Structures	Cu. Yd.	24.2
Stud Shear Connectors	Each	148
Reinforcement Bars, Epoxy Coated	Pound	3,532
Concrete Sealer	Sq. Ft.	466
Geocomposite Wall Drain	Sq. Yd.	18
Untreated Timber Lagging	Sq. Ft.	407
Furnishing Soldier Piles (W Section)	Foot	771
Pipe Underdrains for Structures 4"	Foot	75
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	5,436

- LEGEND**
- E.F. = Each face
  - F.F. = Front Face
  - B.F. = Back Face
  - C.I.P. = Cast-In-Place
  - (C) = Construction Joint
  - (E) = Expansion Joint
  - (4) = Panel Numbers
  - (12) = Pile Numbers

**NOTE:**  
For Top of Pile Elevations & Pile Tip Elevations, see Soldier Pile Schedule, Sht. SW9.



USER NAME =	DESIGNED - GFP	REVISED -
	CHECKED - GMK	REVISED -
PLOT SCALE =	DRAWN - GFP	REVISED -
PLOT DATE =	DATE - 3/5/2013	REVISED -

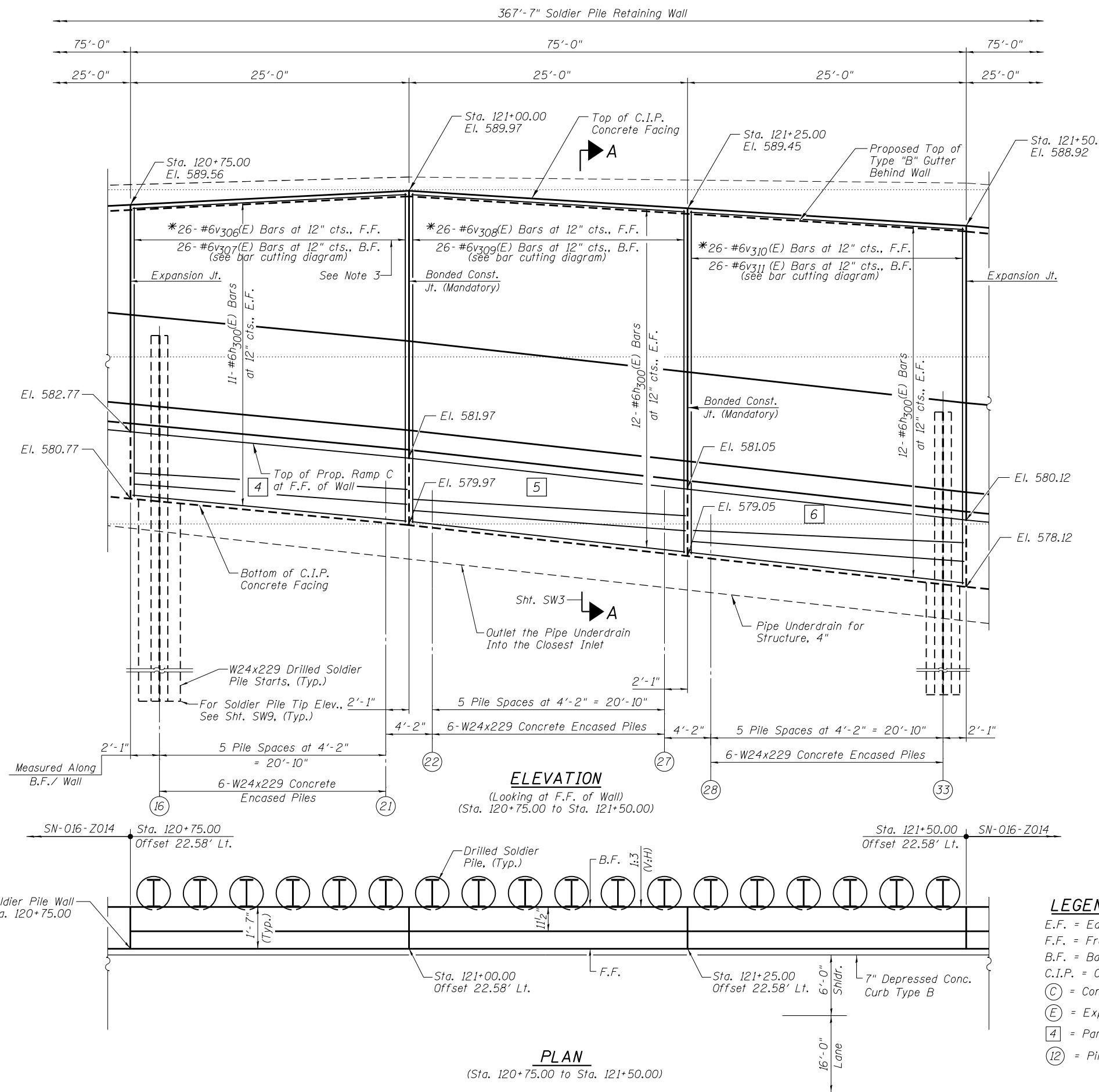
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION (STA. 120+00.00 TO 120+75.00)  
STRUCTURE NO. 016-2014

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	316
CONTRACT NO. 60F63			ILLINOIS FED. AID PROJECT	

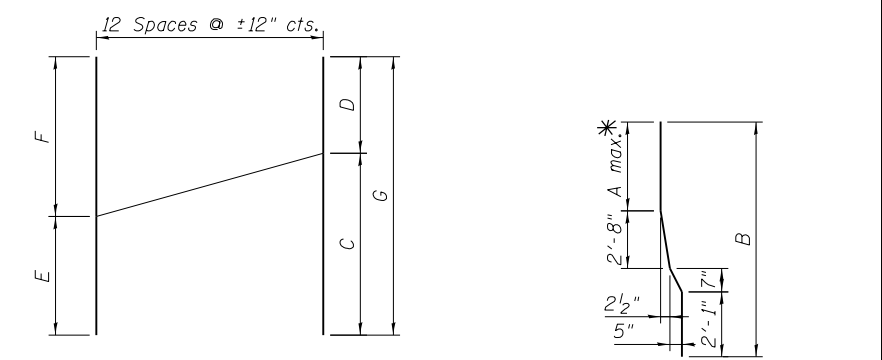
SHEET NO. SW4 OF SW11 SHEETS





- Notes:**
1. Wall dimensions are measured along F.F. of wall. See sheet SW1 for location.
  2. Stations and offsets for the wall are given from the Ramp C to the F.F. of wall.
  3. Fan Horizontal bars (h Bars) at 12" cts. max.

REINFORCEMENT BAR LIST				
Bar	No.	Size	Length	Shape
h <sub>300</sub> (E)	70	#6	24'-8"	—
v <sub>306</sub> (E)	26	#6	9'-10"	—
v <sub>307</sub> (E)	13	#6	18'-2"	—
v <sub>308</sub> (E)	26	#6	10'-3"	—
v <sub>309</sub> (E)	13	#6	19'-9"	—
v <sub>310</sub> (E)	26	#6	10'-8"	—
v <sub>311</sub> (E)	13	#6	20'-7"	—



**BARS v<sub>307</sub>(E), v<sub>309</sub>(E), v<sub>311</sub>(E)**

Bar	C	D	E	F	G
v <sub>307</sub> (E)	9'-8"	8'-6"	9'-2"	9'-0"	18'-2"
v <sub>309</sub> (E)	10'-1"	9'-8"	9'-11"	9'-10"	19'-9"
v <sub>311</sub> (E)	10'-6"	10'-1"	10'-4"	10'-3"	20'-7"

**BARS v<sub>306</sub>(E), v<sub>308</sub>(E), v<sub>310</sub>(E)**

Bar	A	B
v <sub>306</sub> (E)	4'-4"	9'-8"
v <sub>308</sub> (E)	4'-9"	10'-1"
v <sub>310</sub> (E)	5'-2"	10'-6"

**BAR CUTTING DIAGRAM**  
\* Order Bars Full Length, Cut to Fit

\* Cut in Field to Fit

**ELEVATION**

(Looking at F.F. of Wall)  
(Sta. 120+75.00 to Sta. 121+50.00)

**PLAN**

(Sta. 120+75.00 to Sta. 121+50.00)

**LEGEND**

- E.F. = Each face
- F.F. = Front Face
- B.F. = Back Face
- C.I.P. = Cast-In-Place
- (C) = Construction Joint
- (E) = Expansion Joint
- (4) = Panel Numbers
- (22) = Pile Numbers

**BILL OF MATERIAL**

DESCRIPTION	UNIT	QUANTITY
Structure Excavation	Cu. Yd.	107.5
Concrete Structures	Cu. Yd.	32.2
Stud Shear Connectors	Each	284
Reinforcement Bars, Epoxy Coated	Pound	4,937
Concrete Sealer	Sq. Ft.	689
Geocomposite Wall Drain	Sq. Yd.	27
Untreated Timber Lagging	Sq. Ft.	630
Furnishing Soldier Piles (W Section)	Foot	936
Pipe Underdrains for Structures 4"	Foot	75
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	6,604

**NOTE:**

For Top of Pile Elevations & Pile Tip Elevations, see Soldier Pile Schedule, Sht. SW9.



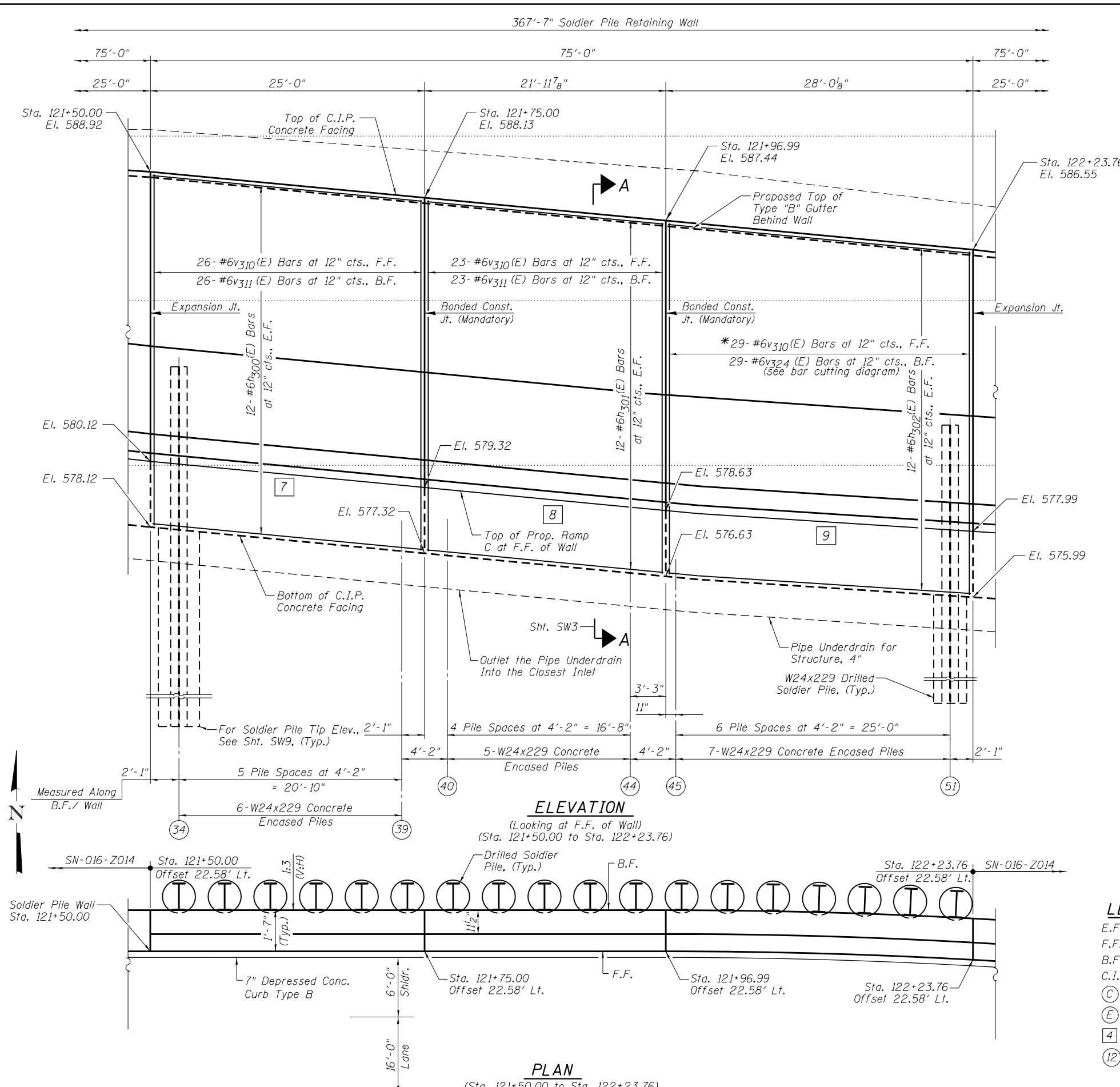
USER NAME =	DESIGNED - GFP	REVISED -
PLOT SCALE =	CHECKED - GMK	REVISED -
PLOT DATE	DRAWN - GFP	REVISED -
	DATE - 3/5/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN AND ELEVATION (STA. 120 + 75.00 TO STA. 121 + 50.00)  
STRUCTURE NO. 016-2014**

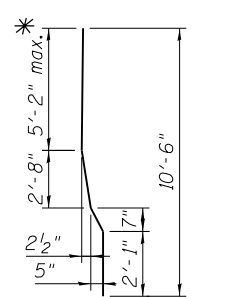
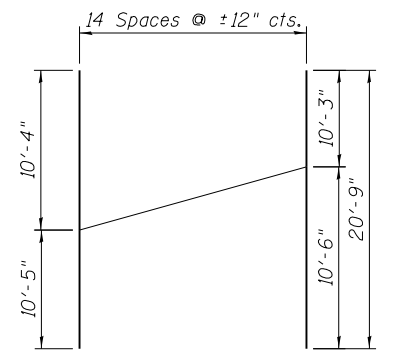
SHEET NO. SW5 OF SW11 SHEETS

F.A.I. R.T.E. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 317
CONTRACT NO. 60F63			ILLINOIS FED. AID PROJECT	



- Notes:**
1. Wall dimensions are measured along F.F. of wall. See sheet SW1 for location.
  2. Stations and offsets for the wall are given from the Ramp C to the F.F. of wall.

REINFORCEMENT BAR LIST				
Bar	No.	Size	Length	Shape
h <sub>300</sub> (E)	24	#6	24'-8"	—
h <sub>301</sub> (E)	24	#6	21'-8"	—
h <sub>302</sub> (E)	24	#6	27'-8"	—
v <sub>310</sub> (E)	77	#6	10'-8"	—
v <sub>311</sub> (E)	49	#6	10'-6"	—
v <sub>324</sub> (E)	15	#6	20'-9"	—



**BAR v<sub>324</sub> (E)**  
**BAR CUTTING DIAGRAM**  
 \* Order Bars Full Length, Cut to Fit

**BARS v<sub>310</sub> (E)**  
 \* Cut in Field to Fit

**BILL OF MATERIAL**

DESCRIPTION	UNIT	QUANTITY
Structure Excavation	Cu. Yd.	124.6
Concrete Structures	Cu. Yd.	34
Stud Shear Connectors	Each	318
Reinforcement Bars, Epoxy Coated	Pound	5,158
Concrete Sealer	Sq. Ft.	741
Geocomposite Wall Drain	Sq. Yd.	29
Untreated Timber Lagging	Sq. Ft.	683
Furnishing Soldier Piles (W Section)	Foot	903
Pipe Underdrains for Structures 4"	Foot	75
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	6,372

**LEGEND**

- E.F. = Each face
- F.F. = Front Face
- B.F. = Back Face
- C.I.P. = Cast-In-Place
- (C) = Construction Joint
- (E) = Expansion Joint
- (4) = Panel Numbers
- (12) = Pile Numbers

**NOTE:**

For Top of Pile Elevations & Pile Tip Elevations, see Soldier Pile Schedule, Sht. SW9.



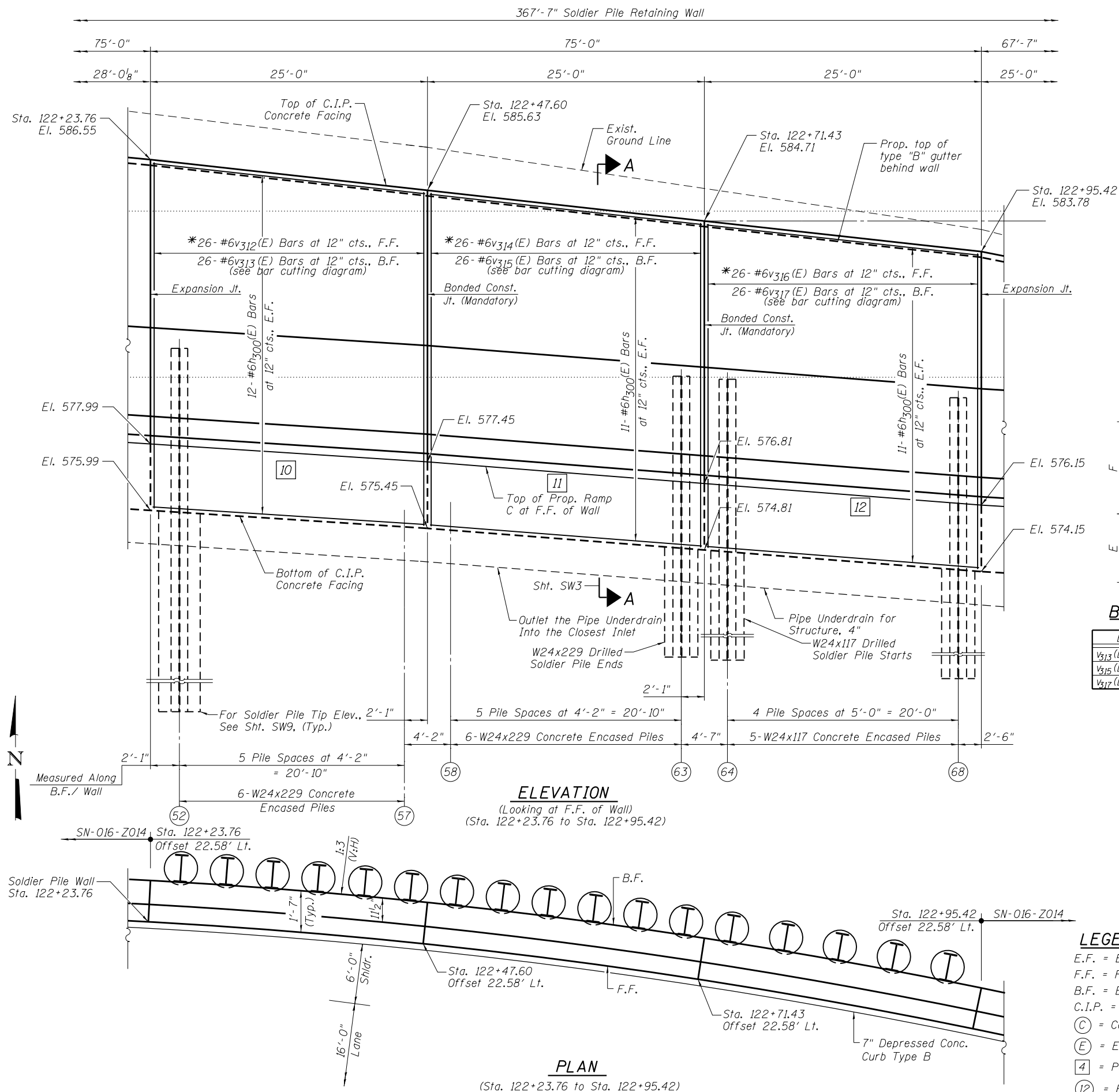
USER NAME =	DESIGNED - GFP	REVISIONS -
	CHECKED - GMK	REVISIONS -
PLOT SCALE =	DRAWN - GFP	REVISIONS -
PLOT DATE	DATE - 3/5/2013	REVISIONS -

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

**PLAN AND ELEVATION (STA. 121 + 50.00 TO STA. 122 + 23.76)**  
**STRUCTURE NO. 016-Z014**

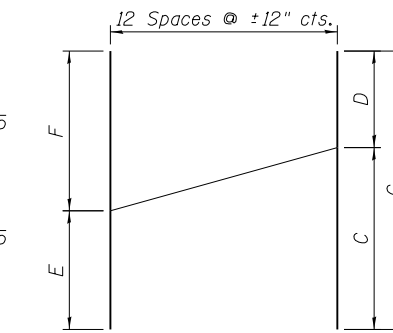
SHEET NO. SW6 OF SW11 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	318
CONTRACT NO. 60F63			ILLINOIS FED. AID PROJECT	



- Notes:**
- Wall dimensions are measured along F.F. of wall. See sheet SW1 for location.
  - Stations and offsets for the wall are given from the Ramp C to the F.F. of wall.
  - Fan Horizontal bars (h Bars) at 12" cts. max.

REINFORCEMENT BAR LIST				
Bar	No.	Size	Length	Shape
h <sub>300</sub> (E)	68	#6	24'-8"	
v <sub>312</sub> (E)	26	#6	10'-5"	
v <sub>313</sub> (E)	13	#6	20'-1"	
v <sub>314</sub> (E)	26	#6	10'-0"	
v <sub>315</sub> (E)	13	#6	19'-5"	
v <sub>316</sub> (E)	26	#6	9'-9"	
v <sub>317</sub> (E)	13	#6	18'-11"	

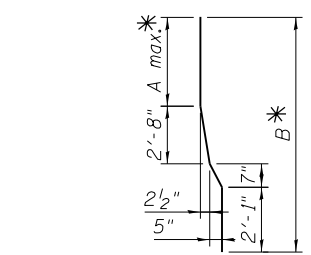


**BARS v<sub>313</sub>(E), v<sub>315</sub>(E), v<sub>317</sub>(E)**

Bar	C	D	E	F	G
v <sub>313</sub> (E)	10'-3"	9'-10"	10'-1"	10'-0"	20'-1"
v <sub>315</sub> (E)	9'-10"	9'-7"	9'-9"	9'-8"	19'-5"
v <sub>317</sub> (E)	9'-7"	9'-4"	9'-6"	9'-5"	18'-11"

**BAR CUTTING DIAGRAM**

\* Order Bars Full Length, Cut to Fit



**BARS v<sub>312</sub>(E), v<sub>314</sub>(E), v<sub>316</sub>(E)**

Bar	A	B
v <sub>312</sub> (E)	4'-11"	10'-3"
v <sub>314</sub> (E)	4'-6"	9'-10"
v <sub>316</sub> (E)	4'-3"	9'-7"

\* Cut in Field to Fit

**BILL OF MATERIAL**

DESCRIPTION	UNIT	QUANTITY
Structure Excavation	Cu. Yd.	110.8
Concrete Structures	Cu. Yd.	30.5
Stud Shear Connectors	Each	270
Reinforcement Bars, Epoxy Coated	Pound	4,839
Concrete Sealer	Sq. Ft.	642
Geocomposite Wall Drain	Sq. Yd.	25
Untreated Timber Lagging	Sq. Ft.	596
Furnishing Soldier Piles (W Section)	Foot	810
Pipe Underdrains for Structures 4"	Foot	75
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	5,738

**NOTE:**  
For Top of Pile Elevations & Pile Tip Elevations, see Soldier Pile Schedule, Sht. SW9.

**LEGEND**

- E.F. = Each face
- F.F. = Front Face
- B.F. = Back Face
- C.I.P. = Cast-In-Place
- (C) = Construction Joint
- (E) = Expansion Joint
- [4] = Panel Numbers
- (12) = Pile Numbers

**ELEVATION**

(Looking at F.F. of Wall)  
(Sta. 122+23.76 to Sta. 122+95.42)

**PLAN**

(Sta. 122+23.76 to Sta. 122+95.42)



USER NAME =	DESIGNED - GFP	REVISED -
PLOT SCALE =	CHECKED - GMK	REVISED -
PLOT DATE =	DRAWN - GFP	REVISED -
	DATE - 3/5/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION (STA. 122 + 23.76 TO STA. 122 + 95.42)  
STRUCTURE NO. 016-2014

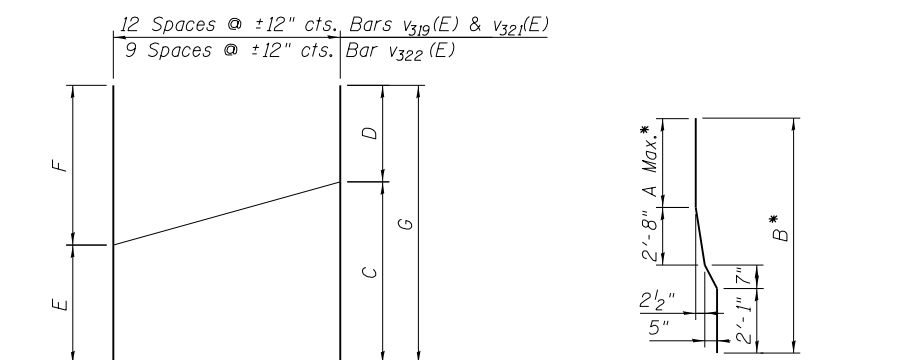
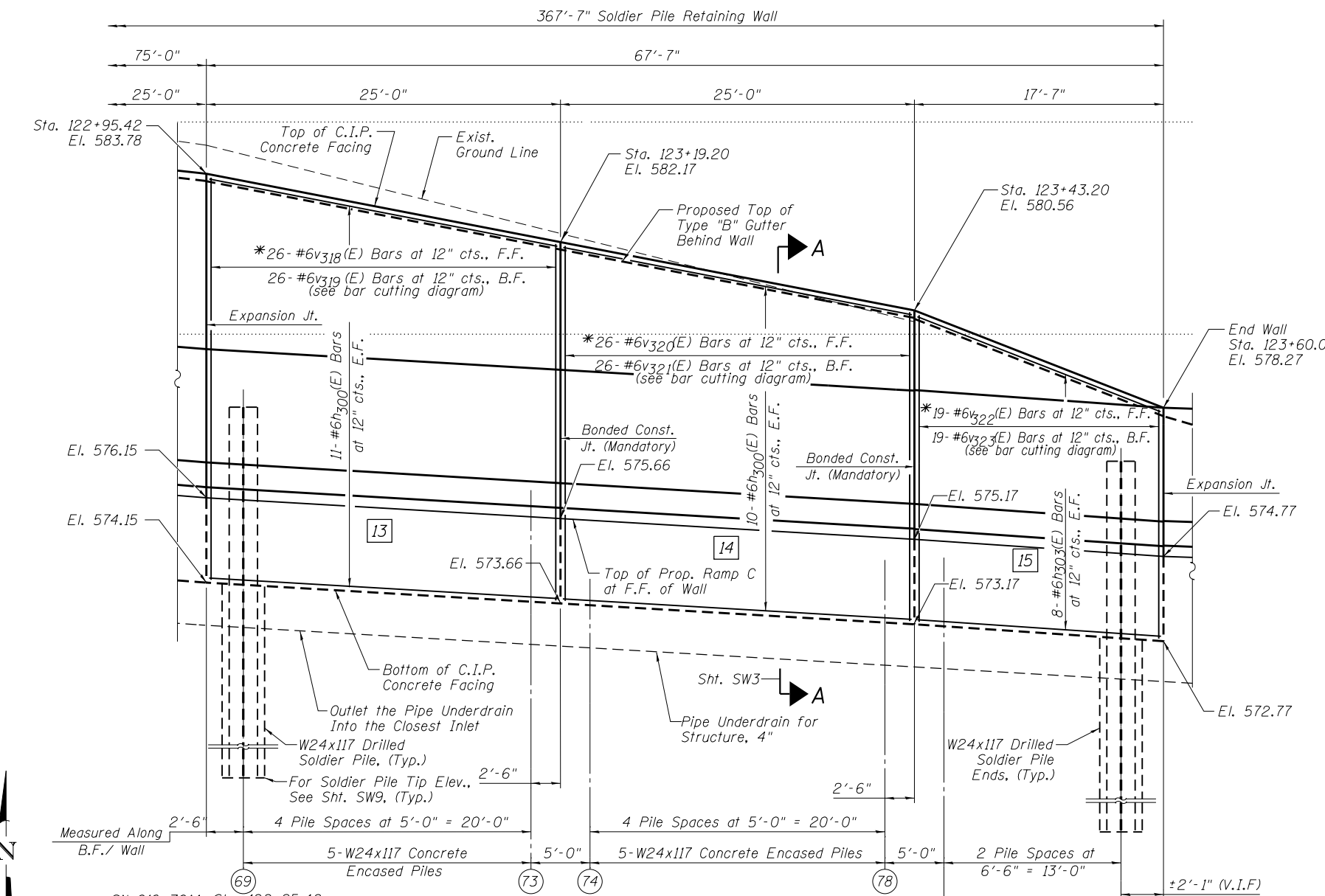
SHEET NO. SW7 OF SW11 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	319
CONTRACT NO. 60F63			ILLINOIS FED. AID PROJECT	

Notes:

1. Wall dimensions are measured along F.F. of wall. See sheet SW1 for location.
2. Stations and offsets for the wall are given from the Ramp C to the F.F. of wall.
3. Fan Horizontal bars (h Bars) at 12" cts. max.

REINFORCEMENT BAR LIST				
Bar	No.	Size	Length	Shape
$h_{300}(E)$	42	#6	24'-8"	—
$h_{303}(E)$	16	#6	17'-4"	—
$v_{318}(E)$	26	#6	9'-6"	—
$v_{319}(E)$	13	#6	17'-6"	—
$v_{320}(E)$	26	#6	8'-4"	—
$v_{321}(E)$	26	#6	15'-3"	—
$v_{322}(E)$	19	#6	7'-3"	—
$v_{323}(E)$	10	#6	12'-3"	—



BARS $v_{319}(E)$ , $v_{321}(E)$ , $v_{323}(E)$					
Bar	C	D	E	F	G
$v_{319}(E)$	9'-4"	8'-2"	8'-10"	8'-8"	17'-6"
$v_{321}(E)$	8'-2"	7'-1"	7'-8"	7'-7"	15'-3"
$v_{323}(E)$	7'-1"	5'-2"	6'-7"	5'-8"	12'-3"

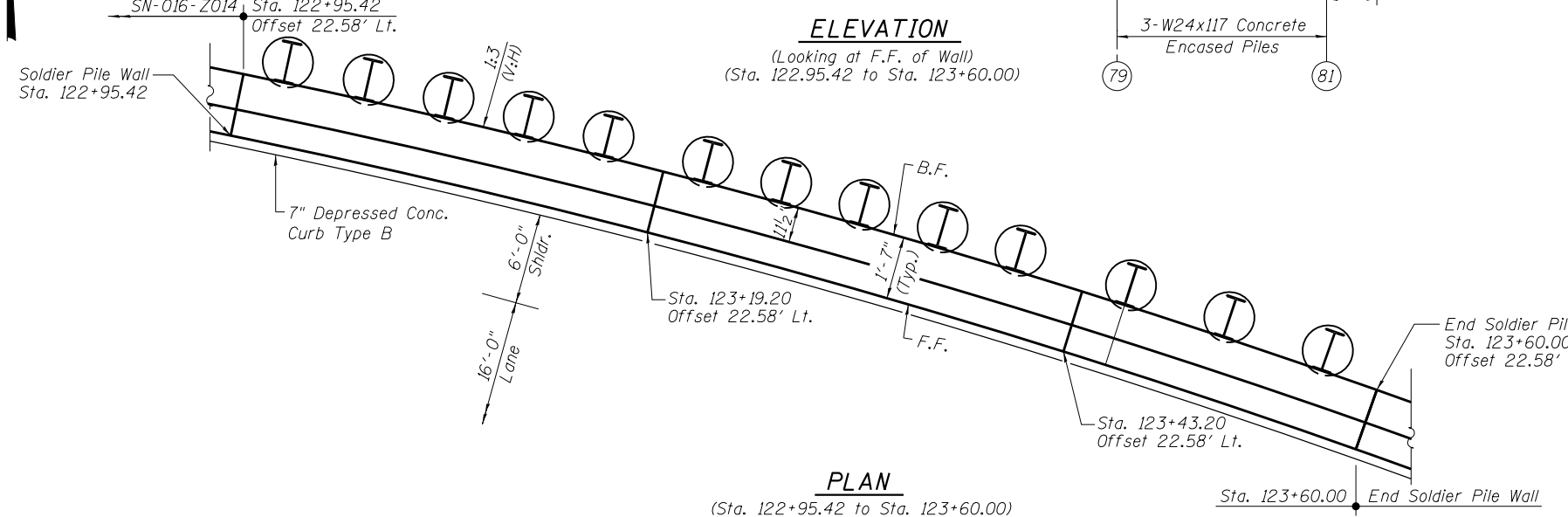
BARS $v_{318}(E)$ , $v_{320}(E)$ , $v_{322}(E)$		
Bar	A	B
$v_{318}(E)$	4'-11"	9'-4"
$v_{320}(E)$	4'-6"	8'-2"
$v_{322}(E)$	4'-3"	7'-1"

**BAR CUTTING DIAGRAM**  
\* Order Bars Full Length, Cut to Fit

**BILL OF MATERIAL**

DESCRIPTION	UNIT	QUANTITY
Structure Excavation	Cu. Yd.	85.6
Concrete Structures	Cu. Yd.	24
Stud Shear Connectors	Each	152
Reinforcement Bars, Epoxy Coated	Pound	3,700
Concrete Sealer	Sq. Ft.	480
Geocomposite Wall Drain	Sq. Yd.	18
Untreated Timber Lagging	Sq. Ft.	427
Furnishing Soldier Piles (W Section)	Foot	572
Pipe Underdrains for Structures 4"	Foot	68
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	4,033

**NOTE:**  
For Top of Pile Elevations & Pile Tip Elevations, see Soldier Pile Schedule, Sht. SW9.



**PLAN**  
(Sta. 122+95.42 to Sta. 123+60.00)



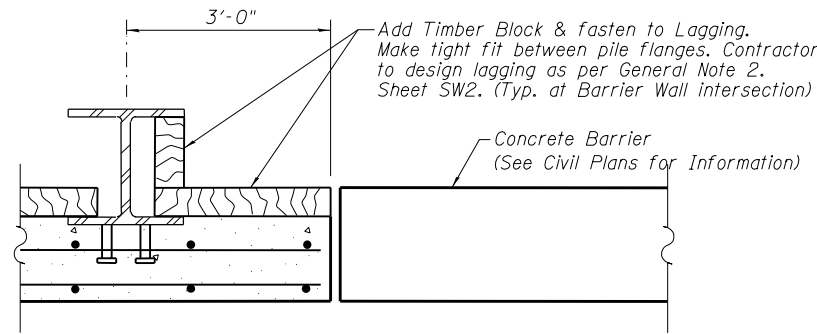
USER NAME =	DESIGNED - GFP	REVISED -
PLOT SCALE =	CHECKED - GMK	REVISED -
PLOT DATE =	DRAWN - GFP	REVISED -
	DATE - 3/5/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION (STA. 122 + 95.42 TO STA. 123 + 60.00)  
STRUCTURE NO. 016-2014

SHEET NO. SW8 OF SW11 SHEETS

F.A.I. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 320
CONTRACT NO. 60F63			ILLINOIS FED. AID PROJECT	



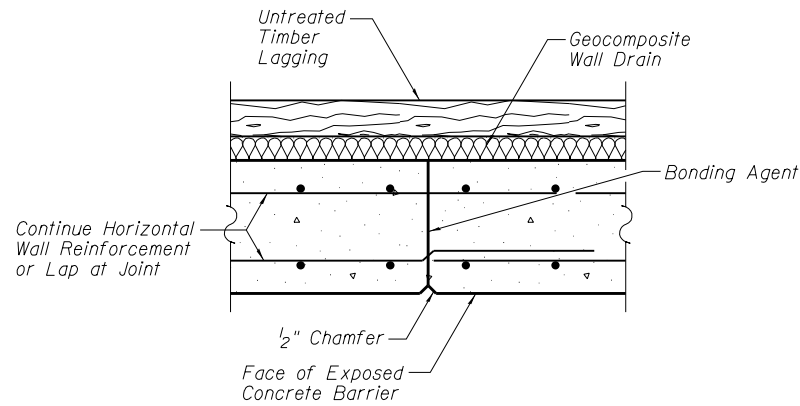
**SECTION SHOWING  
TIMBER LAGGING AT BARRIER WALL**

**SOLDIER PILE RETAINING WALL SOLDIER PILE SCHEDULE**

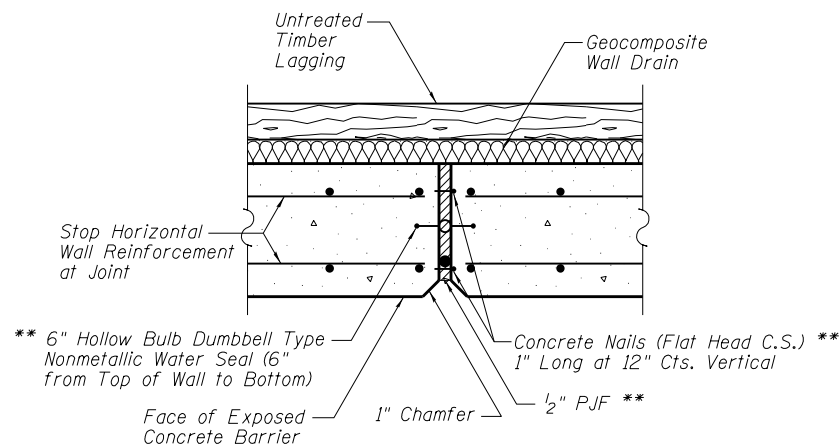
Pile	Station	Offset	Top of Pile Elevation	Pile Tip Elevation	Pile Length (Ft.)	No. Stud Shear Connectors
Pile #1	120+02.50	25.18	586.66	536.00	50.66	6
Pile #2	120+07.50	25.18	586.74	536.00	50.74	8
Pile #3	120+12.50	25.18	586.83	536.00	50.83	8
Pile #4	120+17.50	25.18	586.91	536.00	50.91	8
Pile #5	120+22.50	25.18	587.00	536.00	51.00	8
Pile #6	120+27.50	25.18	587.09	536.00	51.09	8
Pile #7	120+32.50	25.18	587.17	536.00	51.17	10
Pile #8	120+37.50	25.18	587.25	536.00	51.25	10
Pile #9	120+42.50	25.18	587.34	536.00	51.34	10
Pile #10	120+47.50	25.18	587.42	536.00	51.42	10
Pile #11	120+52.50	25.18	587.51	536.00	51.51	12
Pile #12	120+57.50	25.18	587.59	536.00	51.59	12
Pile #13	120+62.50	25.18	587.68	536.00	51.68	12
Pile #14	120+67.50	25.18	587.76	536.00	51.76	12
Pile #15	120+72.50	25.18	587.85	536.00	51.85	14
Pile #16	120+77.09	25.25	587.93	536.00	51.93	14
Pile #17	120+81.25	25.25	588.00	536.00	52.00	14
Pile #18	120+85.42	25.25	588.06	536.00	52.06	14
Pile #19	120+89.59	25.25	588.13	536.00	52.13	14
Pile #20	120+93.75	25.25	588.20	536.00	52.20	16
Pile #21	120+97.92	25.25	588.27	536.00	52.27	16
Pile #22	121+02.09	25.25	588.26	536.00	52.26	16
Pile #23	121+06.25	25.25	588.17	536.00	52.17	16
Pile #24	121+10.42	25.25	588.09	536.00	52.09	16
Pile #25	121+14.59	25.25	588.00	536.00	52.00	16
Pile #26	121+18.75	25.25	587.91	536.00	51.91	16
Pile #27	121+22.92	25.25	587.83	536.00	51.83	16
Pile #28	121+27.09	25.25	587.74	536.00	51.74	16
Pile #29	121+31.25	25.25	587.65	536.00	51.65	16
Pile #30	121+35.42	25.25	587.56	536.00	51.56	16
Pile #31	121+39.59	25.25	587.47	536.00	51.47	16
Pile #32	121+43.75	25.25	587.39	536.00	51.39	18
Pile #33	121+47.92	25.25	587.30	536.00	51.30	18
Pile #34	121+52.09	25.25	587.19	536.00	51.19	18
Pile #35	121+56.25	25.25	587.06	536.00	51.06	18
Pile #36	121+60.42	25.25	586.92	536.00	50.92	18
Pile #37	121+64.59	25.25	586.79	536.00	50.79	18
Pile #38	121+68.75	25.25	586.66	536.00	50.66	18
Pile #39	121+72.92	25.25	586.53	536.00	50.53	18
Pile #40	121+77.09	25.25	586.40	536.00	50.40	18
Pile #41	121+81.25	25.25	586.27	536.00	50.27	18
Pile #42	121+85.42	25.25	586.14	536.00	50.14	18
Pile #43	121+89.59	25.25	586.01	536.00	50.01	18
Pile #44	121+93.75	25.25	585.87	536.00	49.87	18
<b>Total =</b>						<b>630</b>

**SOLDIER PILE RETAINING WALL SOLDIER PILE SCHEDULE**

Pile	Station	Offset	Top of Pile Elevation	Pile Tip Elevation	Pile Length (Ft.)	No. Stud Shear Connectors
Pile #45	121+97.87	25.25	585.74	536.00	49.74	18
Pile #46	122+01.83	25.25	585.61	536.00	49.61	18
Pile #47	122+05.79	25.25	585.48	536.00	49.48	18
Pile #48	122+09.75	25.25	585.35	536.00	49.35	18
Pile #49	122+13.72	25.25	585.21	536.00	49.21	16
Pile #50	122+17.68	25.25	585.08	536.00	49.08	16
Pile #51	122+21.64	25.25	584.95	536.00	48.95	16
Pile #52	122+25.60	25.25	584.81	536.00	48.81	16
Pile #53	122+29.56	25.25	584.65	536.00	48.65	16
Pile #54	122+33.52	25.25	584.50	536.00	48.50	16
Pile #55	122+37.48	25.25	584.35	536.00	48.35	16
Pile #56	122+41.44	25.25	584.19	536.00	48.19	16
Pile #57	122+45.40	25.25	584.04	536.00	48.04	16
Pile #58	122+49.36	25.25	583.89	536.00	47.89	16
Pile #59	122+53.32	25.25	583.73	536.00	47.73	16
Pile #60	122+57.28	25.25	583.58	536.00	47.58	16
Pile #61	122+61.24	25.25	583.43	536.00	47.43	16
Pile #62	122+65.20	25.25	583.27	536.00	47.27	16
Pile #63	122+69.16	25.25	583.12	536.00	47.12	16
Pile #64	122+73.13	25.18	582.95	536.00	46.95	16
Pile #65	122+77.10	25.18	582.76	536.00	46.76	16
Pile #66	122+81.07	25.18	582.58	536.00	46.58	16
Pile #67	122+85.04	25.18	582.39	536.00	46.39	16
Pile #68	122+89.01	25.18	582.21	536.00	46.21	14
Pile #69	122+92.98	25.18	581.95	536.00	45.95	14
Pile #70	123+02.25	25.18	581.63	536.00	45.63	14
Pile #71	123+07.00	25.18	581.31	536.00	45.31	14
Pile #72	123+11.75	25.18	580.99	536.00	44.99	14
Pile #73	123+16.51	25.18	580.66	536.00	44.66	12
Pile #74	123+21.26	25.18	580.34	536.00	44.34	12
Pile #75	123+26.01	25.18	580.02	536.00	44.02	12
Pile #76	123+30.77	25.18	579.70	536.00	43.70	12
Pile #77	123+35.52	25.18	579.38	536.00	43.38	12
Pile #78	123+40.27	25.18	579.05	536.00	43.05	10
Pile #79	123+45.03	25.18	578.57	536.00	42.57	10
Pile #80	123+51.21	25.18	577.72	536.00	41.72	8
Pile #81	123+57.38	25.18	576.87	536.00	40.87	8
<b>Total =</b>						<b>542</b>



**CONSTRUCTION JOINT**



**EXPANSION JOINT**

\*\* Cost included in Pay Item for Concrete Structures



USER NAME =	DESIGNED - GFP	REVISED -
	CHECKED - GMK	REVISED -
PLOT SCALE =	DRAWN - GFP	REVISED -
PLOT DATE	DATE - 3/5/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WALL CROSS SECTIONS AND DETAILS  
STRUCTURE NO. 016-2014**

SHEET NO. SW9 OF SW11 SHEETS

F.A.I. RTÉ. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 321
CONTRACT NO. 60F63			ILLINOIS FED. AID PROJECT	



Page 1 of 1

<b>Wang Engineering</b> wangeng@wangeng.com 1145 N Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938	<b>BORING LOG RW-02</b> WEI Job No.: 486-11-01 Client: <b>Collins Engineers, Inc.</b> Project: <b>I-90/94 (Kennedy Expressway) at Ontario Street</b> Location: <b>NE1/4, Sec. 8, R14E and T39N of 3rd PM</b>	Datum: NAVD 88 Elevation: 583.79 ft North: 1903880.64 ft East: 1169366.29 ft Station: 121+54 Offset: CL
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Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
583.54	583.54-inch thick, brown SILTY CLAY --TOPSOIL-- Stiff to very stiff, brown and gray SILTY CLAY, trace gravel --FILL--	0	1	3	3.00	17	581.8	Boring terminated at 22.00 ft	0	11	3	0.66	23
		5	2	5	2.62	18			5				
		10	3	2	1.72	20			10				
577.8	Very soft to medium stiff, gray SILTY CLAY LOAM, trace gravel	15	4	1	0.41	18			15				
		20	5	2	0.33	24			20				
		25	6	3	0.25	20			25				
		30	7	2	0.25	P			30				
		35	8	1	0.46	22			35				
		40	9	2	0.41	23			40				
		45	10	0	0.41	24			45				

<b>GENERAL NOTES</b>		<b>WATER LEVEL DATA</b>	
Begin Drilling	10-07-2011	Complete Drilling	10-07-2011
Drilling Contractor	WTS	Drill Rig	D-50 ATV
Driller	K&K	Logger	B. Wilson
Checked by	S. Sugiarto	Time After Drilling	NA
Drilling Method	3.25 IDA HSA; Boring backfilled upon completion	Depth to Water	NA
		The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.	

Page 1 of 1

<b>Wang Engineering</b> wangeng@wangeng.com 1145 N Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938	<b>BORING LOG RW-03</b> WEI Job No.: 486-11-01 Client: <b>Collins Engineers, Inc.</b> Project: <b>I-90/94 (Kennedy Expressway) at Ontario Street</b> Location: <b>NE1/4, Sec. 8, R14E and T39N of 3rd PM</b>	Datum: NAVD 88 Elevation: 581.03 ft North: 1903889.63 ft East: 1169531.99 ft Station: 123+19 Offset: 9 LT
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Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
580.74	580.74-inch thick, brown SILTY CLAY --TOPSOIL-- Very stiff, brown and gray SILTY CLAY, little gravel, brick and cinders --FILL--	0	1	3	3.50	17	559.0	Boring terminated at 22.00 ft	0	11	2	0.41	25
		5	2	5	2.50	17			5				
577.0	Medium stiff, brown and gray SILTY CLAY, trace gravel and brick fragments --FILL--	10	3	3	0.50	16			10				
575.0	Loose, gray and black SANDY LOAM, some cinders and wood --FILL--	15	4	2	NP	27			15				
573.0	Soft to medium stiff, gray SILTY CLAY, trace gravel	20	5	2	0.82	14			20				
		25	6	5	0.41	23			25				
		30	7	2	0.33	23			30				
		35	8	1	0.41	23			35				
		40	9	2	0.33	24			40				
		45	10	0	0.33	25			45				

<b>GENERAL NOTES</b>		<b>WATER LEVEL DATA</b>	
Begin Drilling	10-07-2011	Complete Drilling	10-07-2011
Drilling Contractor	WTS	Drill Rig	D-50 ATV
Driller	K&K	Logger	B. Wilson
Checked by	S. Sugiarto	Time After Drilling	NA
Drilling Method	3.25 IDA HSA; Boring backfilled upon completion	Depth to Water	NA
		The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.	



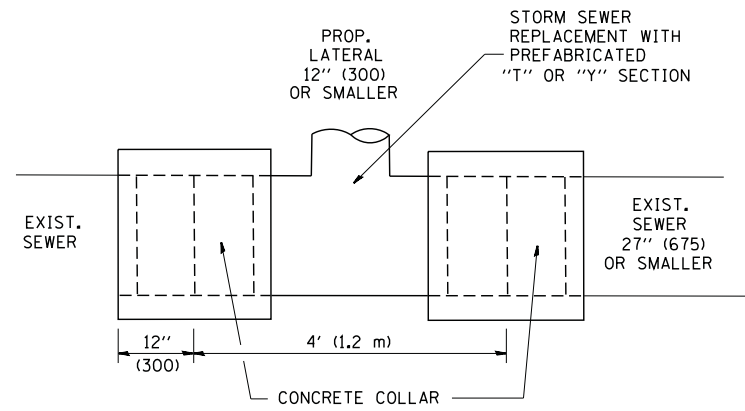
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PLOT DATE =	DATE - 3/5/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS II  
STRUCTURE NO. 016-2014**

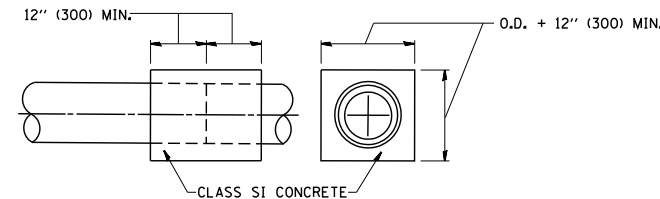
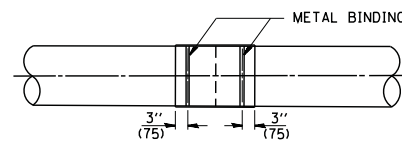
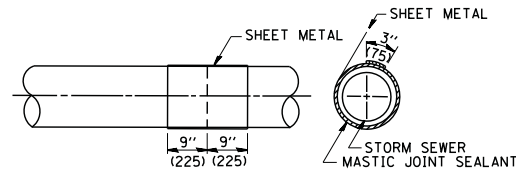
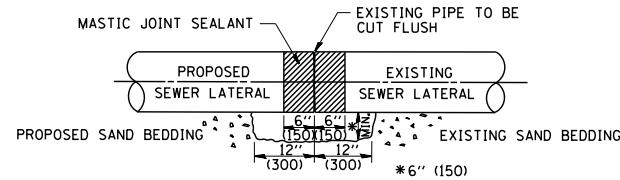
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	323
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

SHEET NO. SW11 OF SW11 SHEETS



**DETAIL "A"**

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

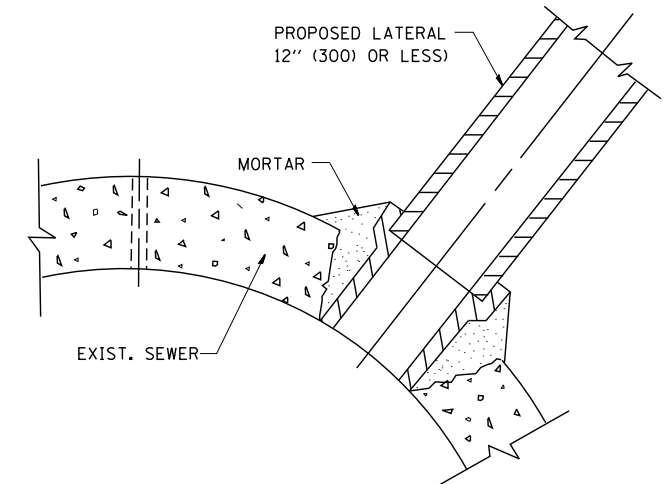


**DETAIL "B"**

CLASS SI CONCRETE COLLAR

**CONSTRUCTION SEQUENCE**

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



**DETAIL "C"**

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

**NOTES**

**MATERIAL**

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

**CONSTRUCTION METHODS**

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
  - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

**GENERAL**

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

**BASIS OF PAYMENT**

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

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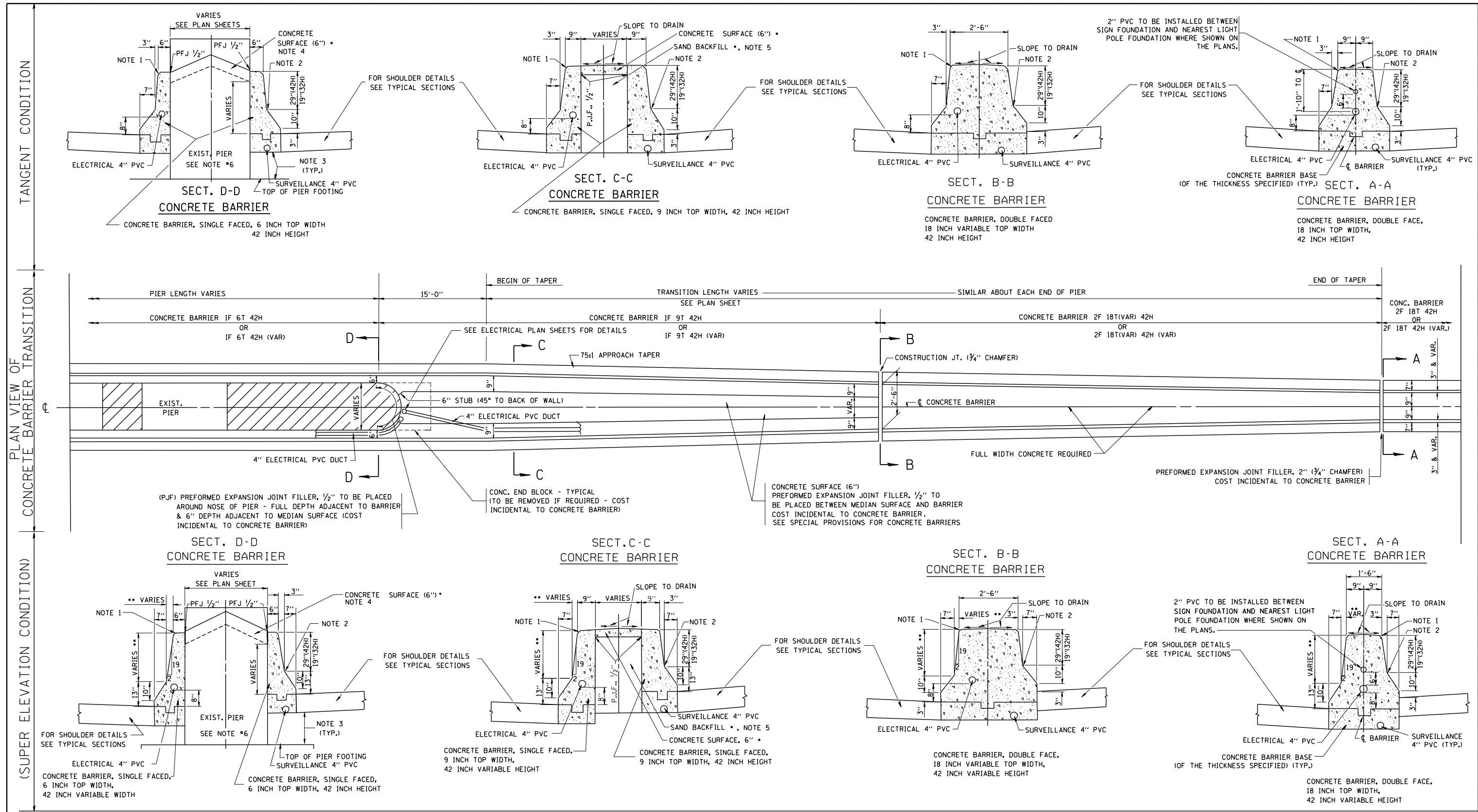
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF STORM SEWER  
CONNECTION TO EXISTING SEWER**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	324
<b>BD500-01 (BD-7)</b>		CONTRACT NO. 60F63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CONCRETE BARRIER TRANSITION &amp; GENERAL DETAILS, CONCRETE BARRIER BASE</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

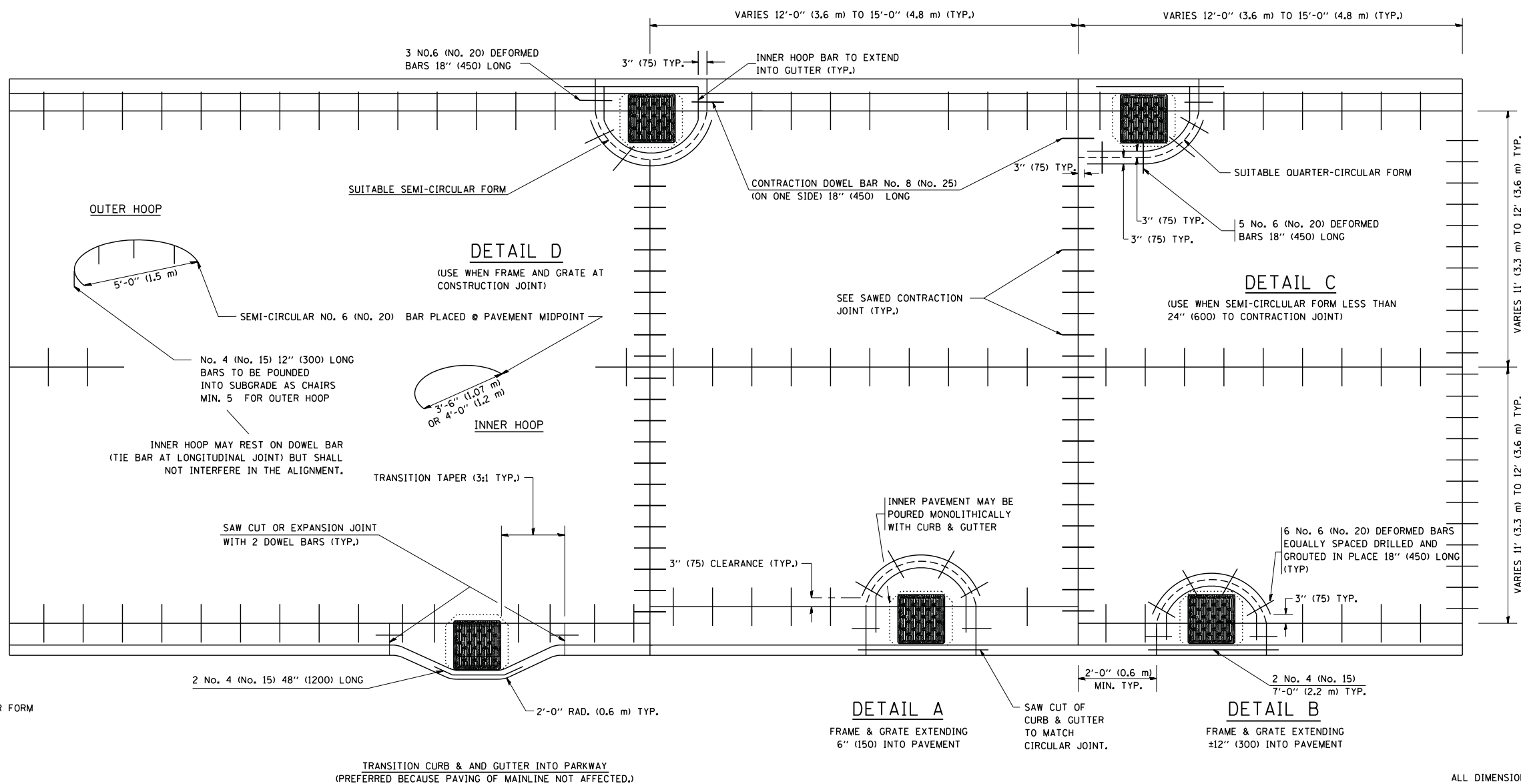
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<b>BD-27</b>			CONTRACT NO. 60P63	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4'-6" (1.4 m)	5'-0" (1.5 m)

DESIGNER NOTE:  
THIS DETAIL IS TO BE USED  
WHEN THE GUTTER FLAG IS  
LESS THAN 24"

NOTES :

1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.
2. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT. EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT. RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
3. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
4. ALL REINFORCED BARS SHALL BE EPOXY COATED.
5. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.
6. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
7. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
8. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
9. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.



LEGEND:

- ..... CASTING
- SUITABLE SEMI-CIRCULAR FORM

ALL DIMENSIONS ARE IN INCHES  
(MILLIMETERS) UNLESS OTHERWISE NOTED

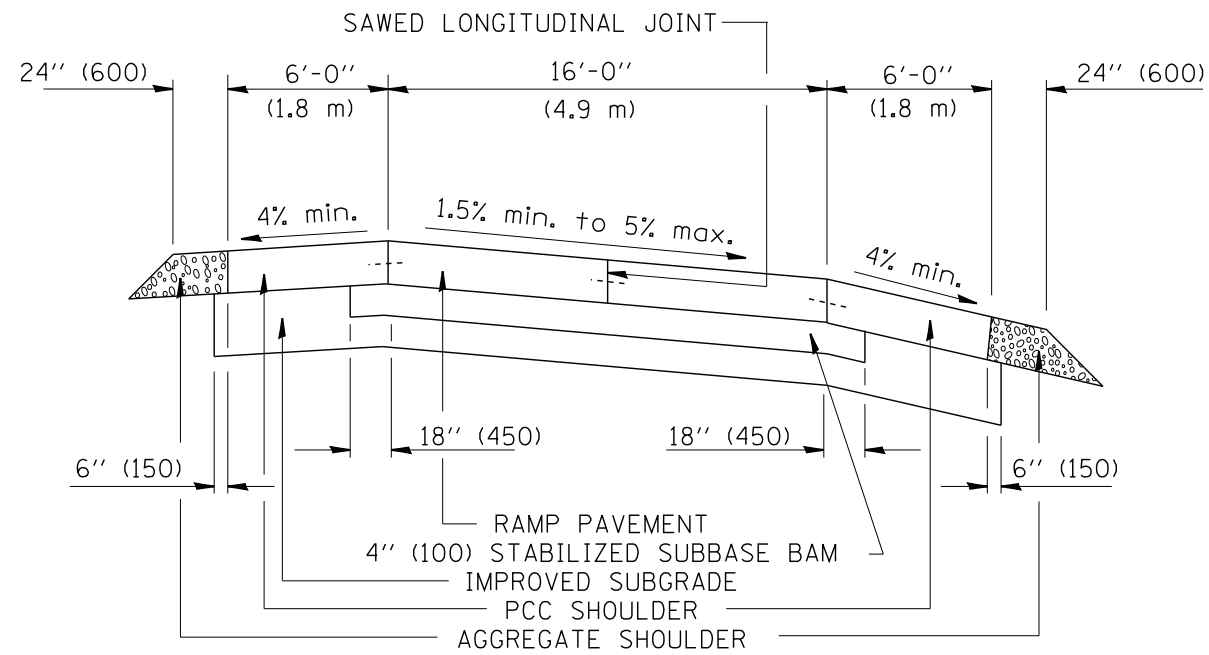
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	PLOT DATE = 1/4/2008	DATE - 01-04-99	REVISED - P. LAFLEUR 08-27-02

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PCC PAVEMENT ROUNDOUTS AT  
CURB AND GUTTER

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

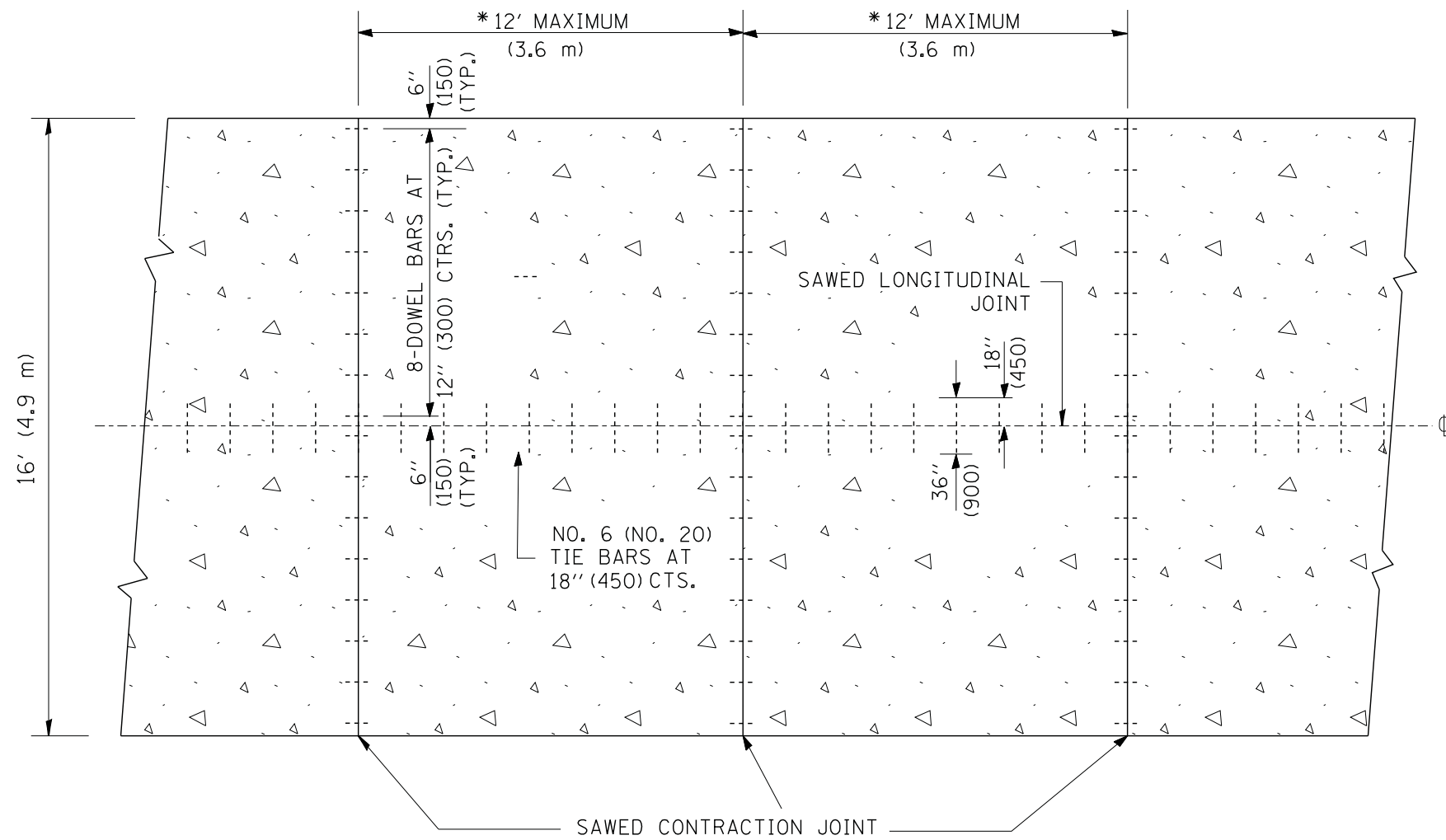
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BD-48		CONTRACT NO. 60P63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



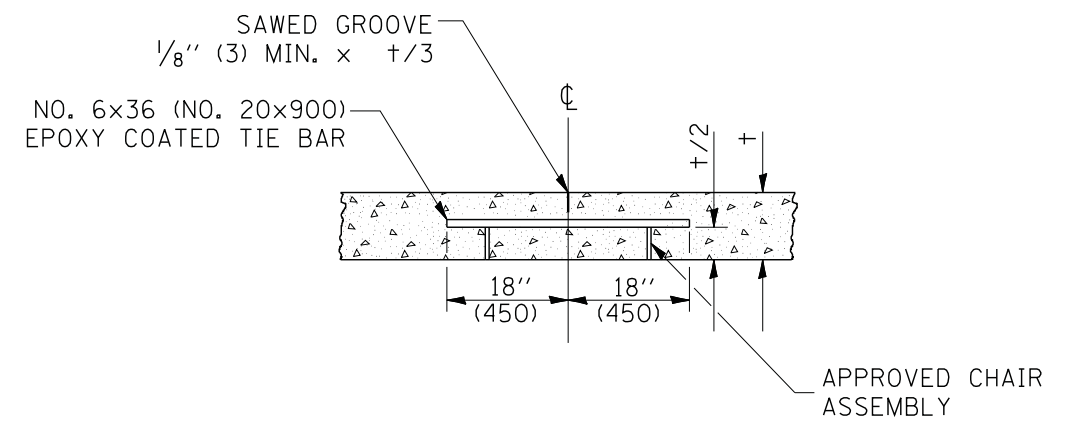
**SECTION**

**NOTES:**

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



**PLAN**



**SAWED LONGITUDINAL JOINT**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

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 CHECKED - A. ABBAS  
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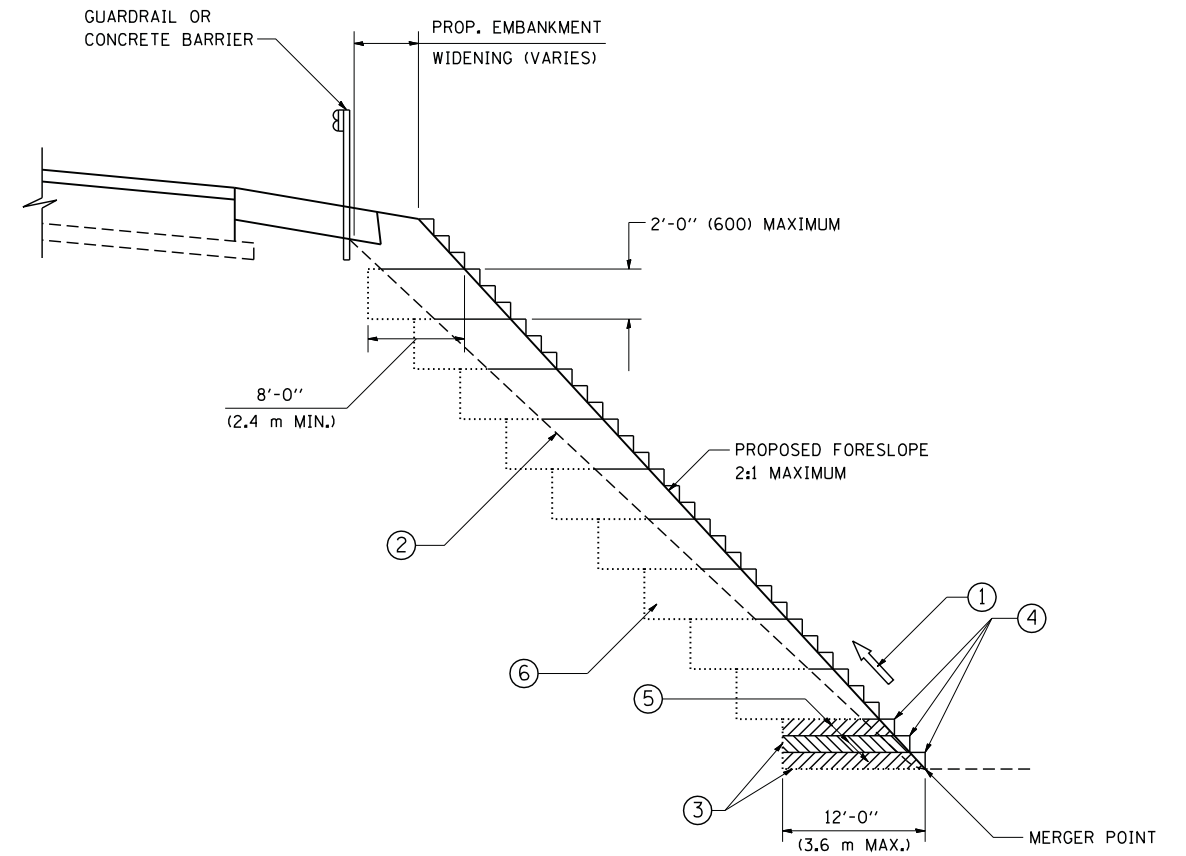
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 REVISED -  
 REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DETAIL FOR CENTERLINE SAW CUT 16' (4.9 m) AND  
 VARIABLE JOINTED PCC PAVEMENT FOR RAMPS**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	327
<b>BD49</b>		<b>CONTRACT NO. 60P63</b>		
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				



TYPICAL BENCHING DETAIL  
FOR EMBANKMENT

**NOTES:**

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

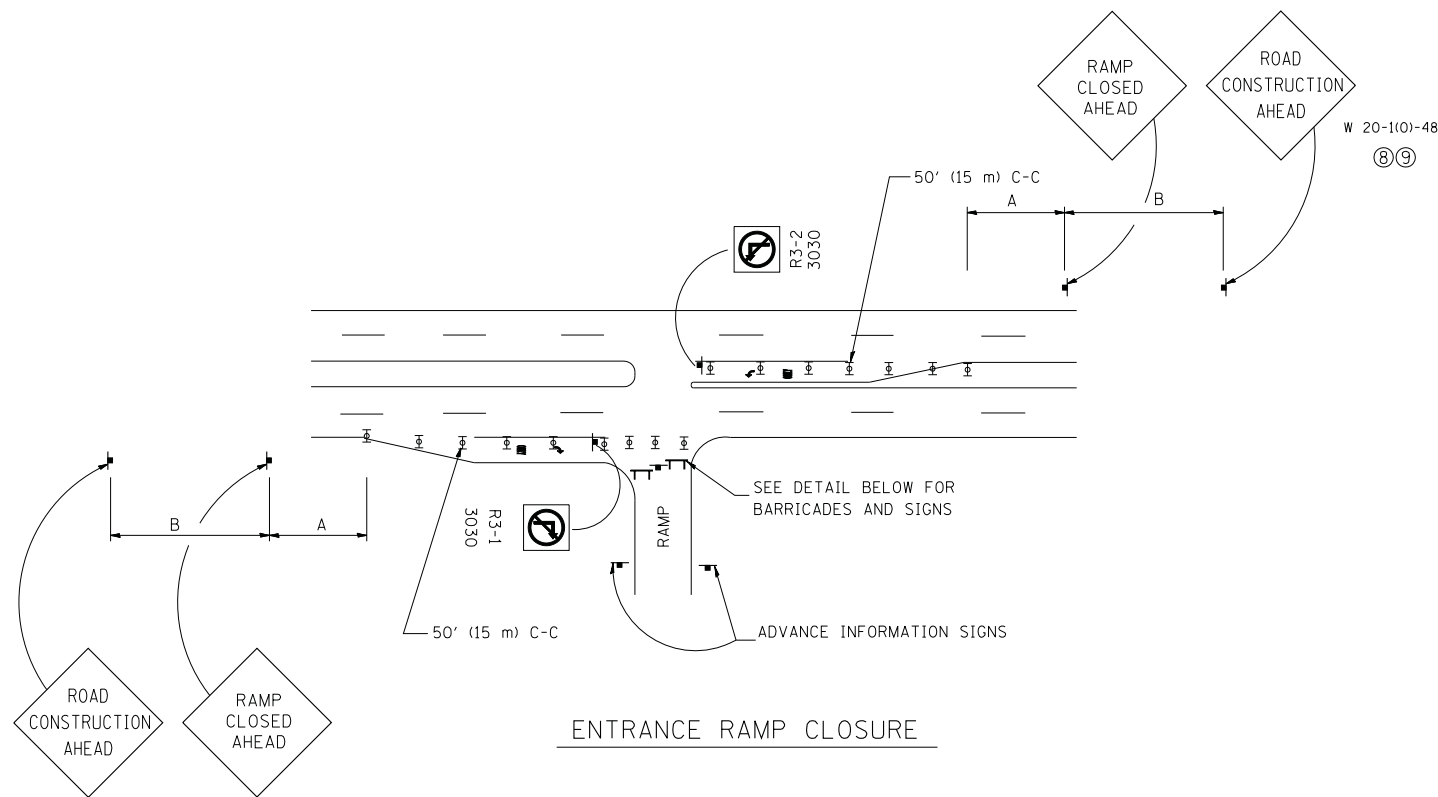
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	328
<b>BD-51</b>		<b>CONTRACT NO. 60P63</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



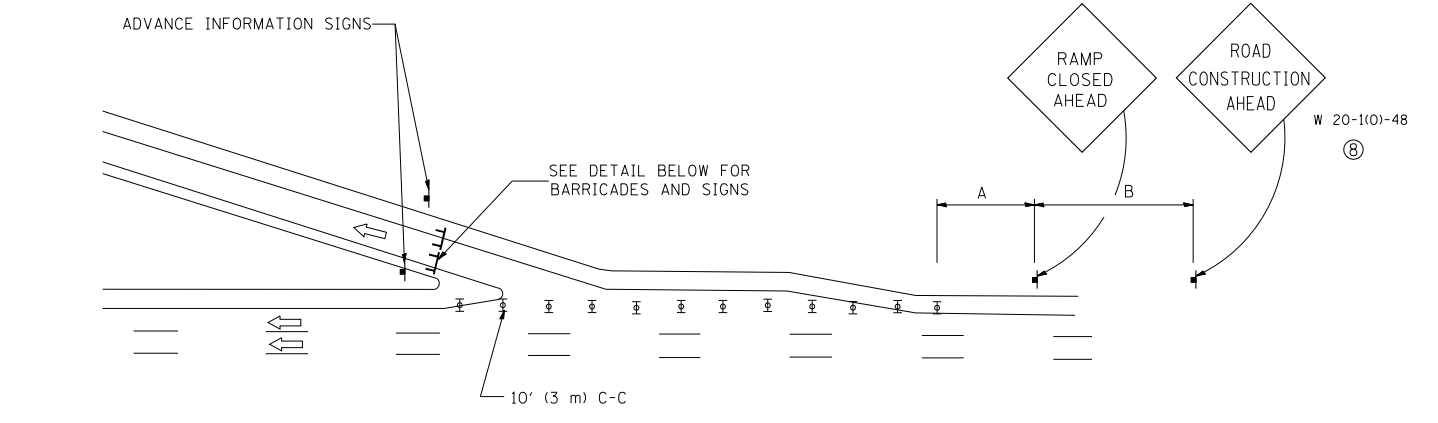
ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL ≥45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	150' (45 m)	150' (45 m)

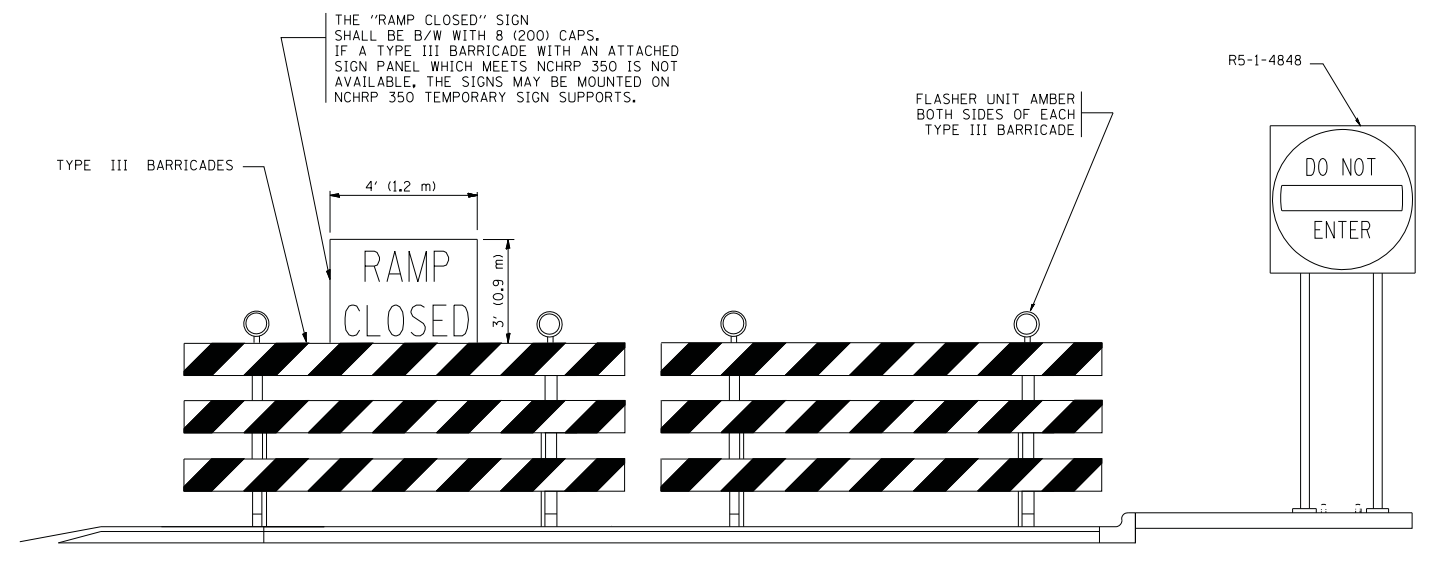
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

W 20-1(0)-48  
⑧⑨



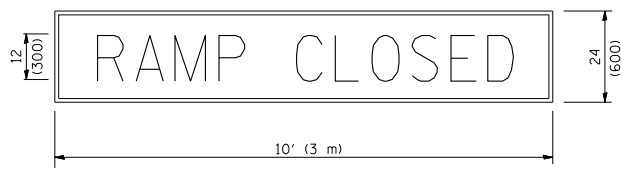
EXIT RAMP CLOSURE

- SYMBOLS
- ⊥ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
  - ⊥ TYPE III BARRICADE WITH FLASHING LIGHT



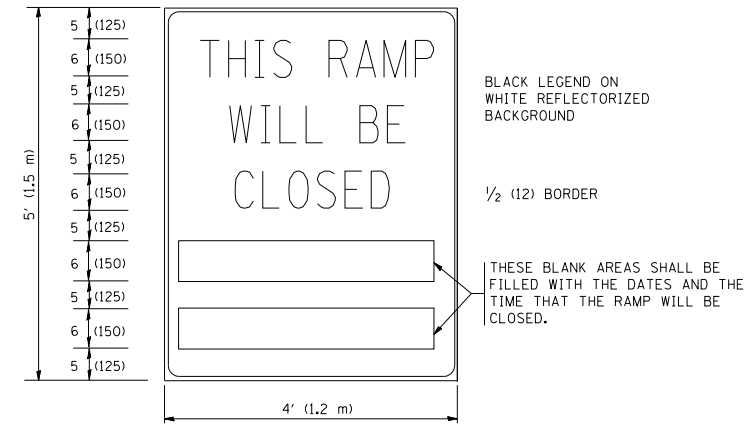
DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND  
1 (25) BORDER  
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



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

GENERAL NOTES:

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

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

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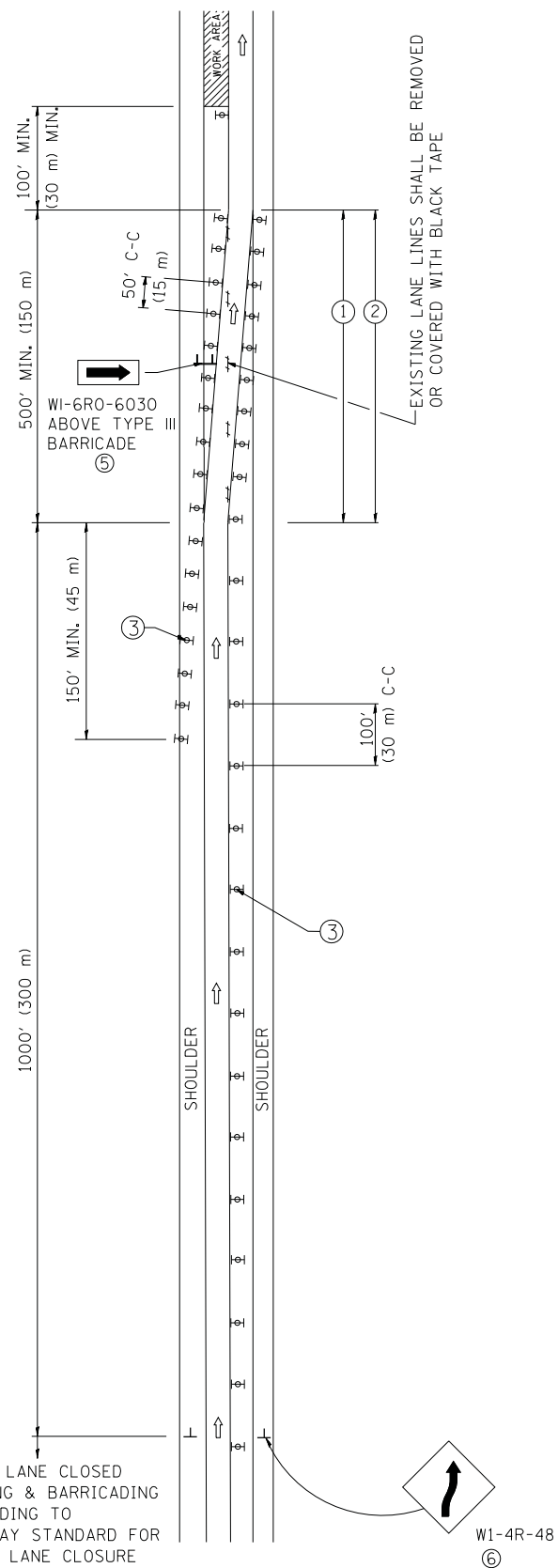
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FREeway ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS

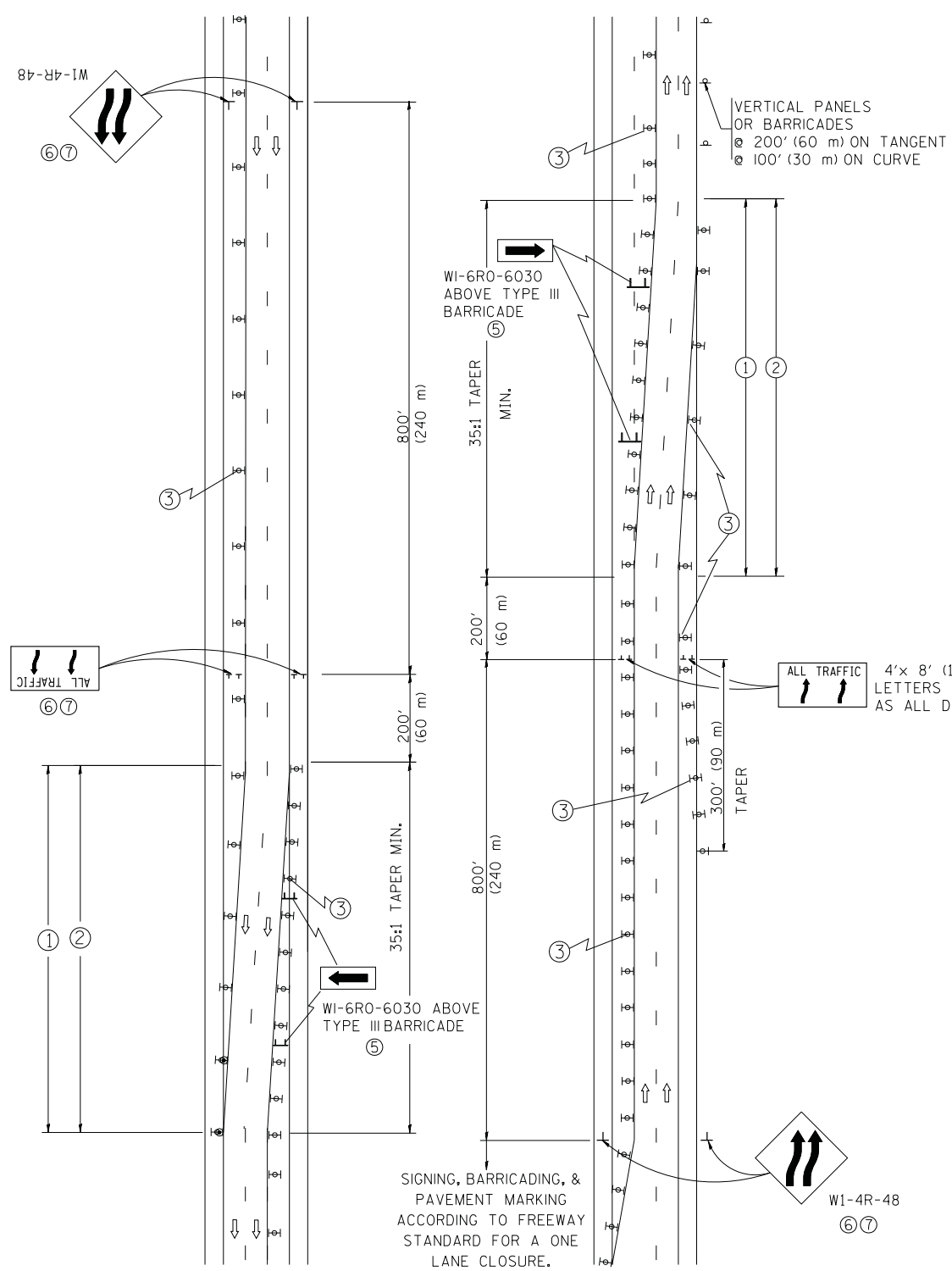
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.T. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 329
TC-08		CONTRACT NO. 60P63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



### GENERAL NOTES

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS. TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

### SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- W1-4R-48 (6, 7)
- W24-1-48 (7)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\diststd\22x34\tc09.dgn

USER NAME = leuss

PLOT SCALE = 50.000' / IN.

PLOT DATE = 1/26/2010

DESIGNED - DWS

DRAWN -

CHECKED -

DATE - 02-87

REVISED - JAF 01-03

REVISED - JAF 02-06

REVISED - SPB 01-07

REVISED - SPB 12-09

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

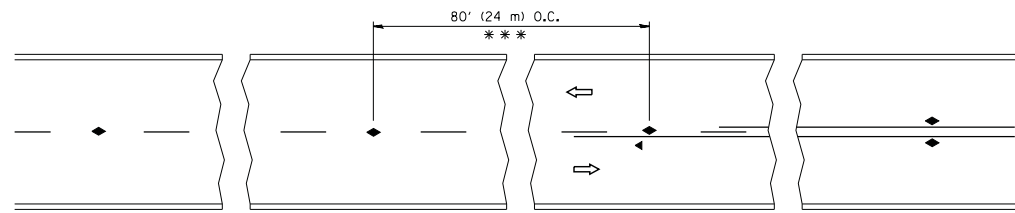
**TRAFFIC CONTROL DETAILS FOR**  
**FREEWAY SINGLE & MULTI-LANE WEAVE**

SCALE: NONE

SHEET NO. 1 OF 1 SHEETS

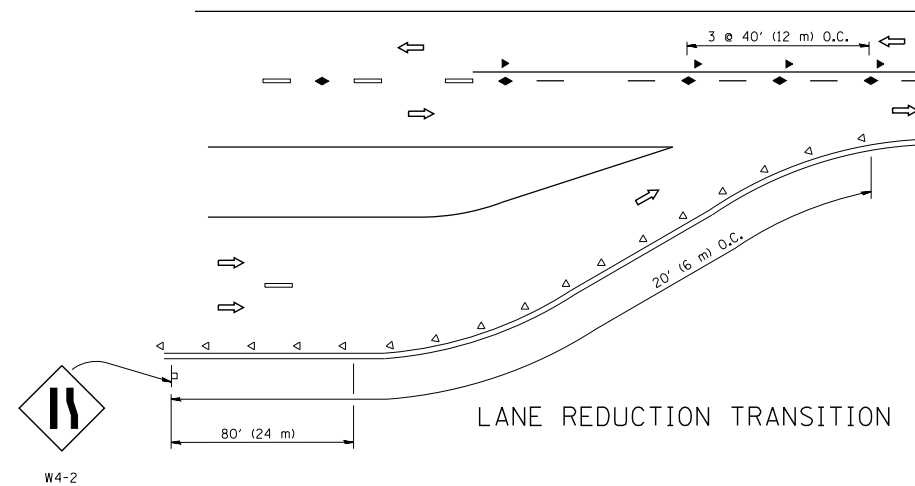
STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	330
TC-09		CONTRACT NO. 60F63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

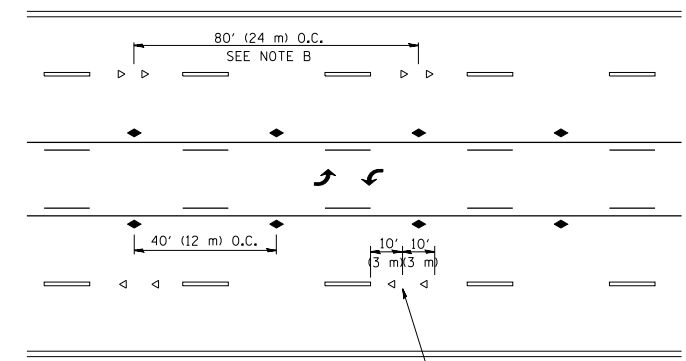


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

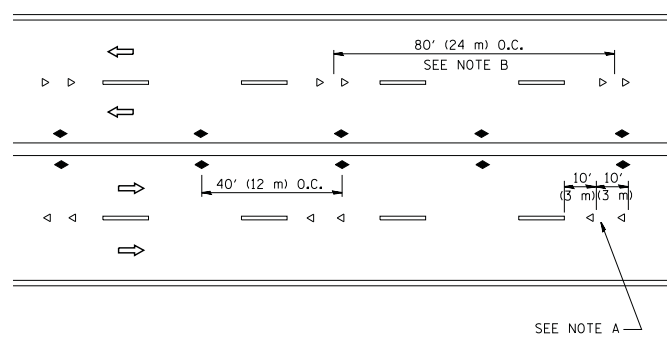
TWO-LANE/TWO-WAY



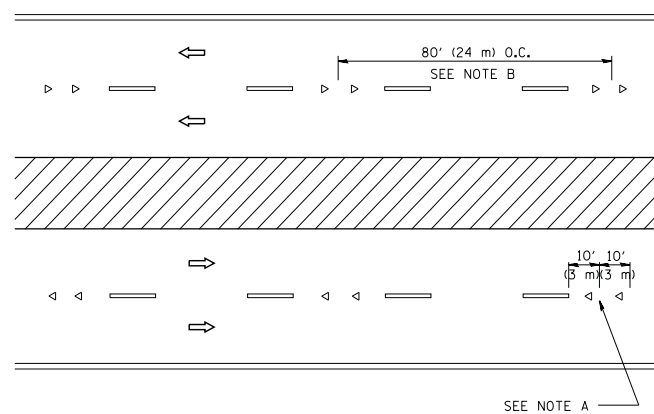
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

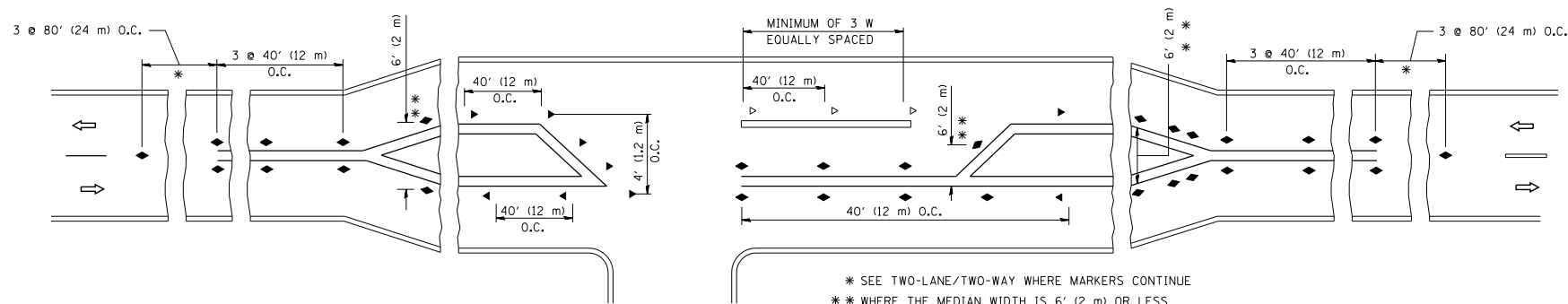
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

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

FILE NAME =	USER NAME = lryso	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
ct:\pw\work\p\dot\lryso\d0108315\l1.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

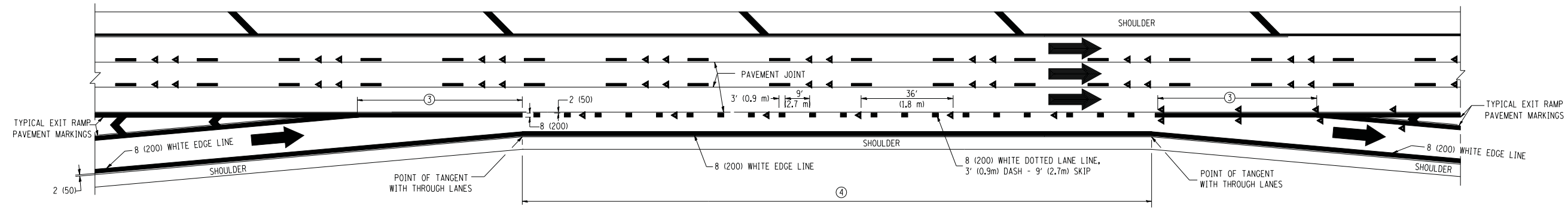
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

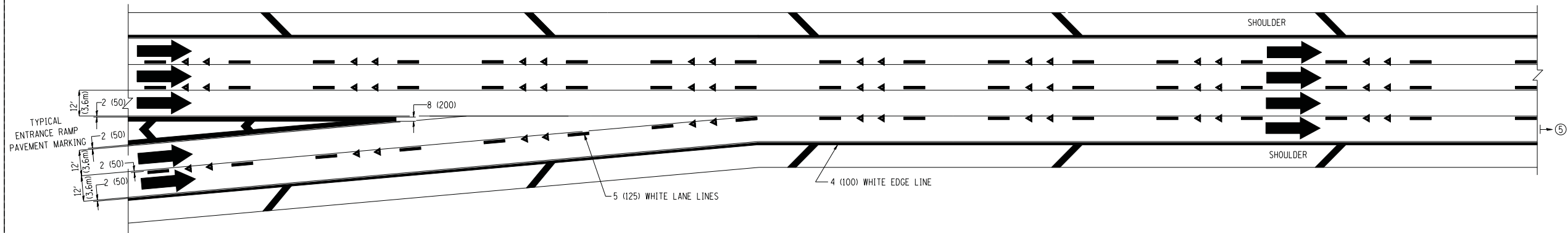
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	331
TC-11		CONTRACT NO. 60P63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



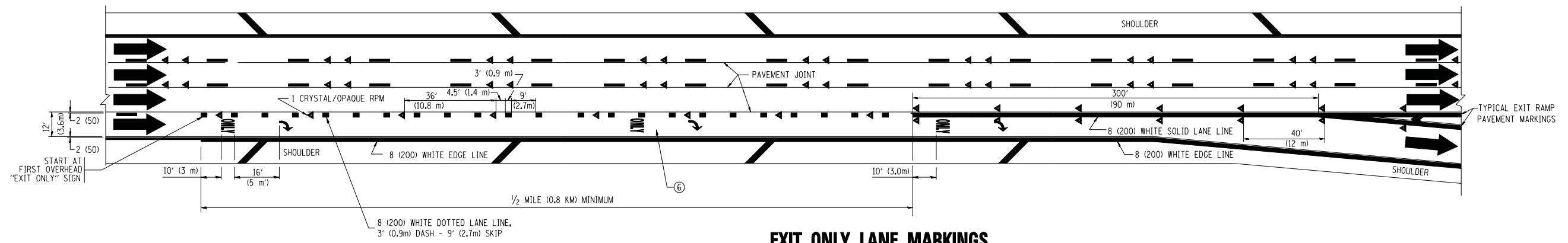




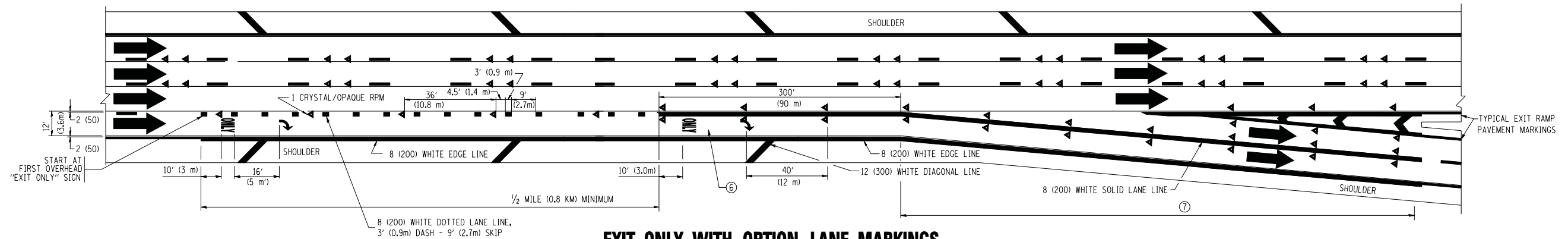
**AUXILIARY LANE MARKINGS**



**TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS**



**EXIT ONLY LANE MARKINGS**



**EXIT ONLY WITH OPTION LANE MARKINGS**

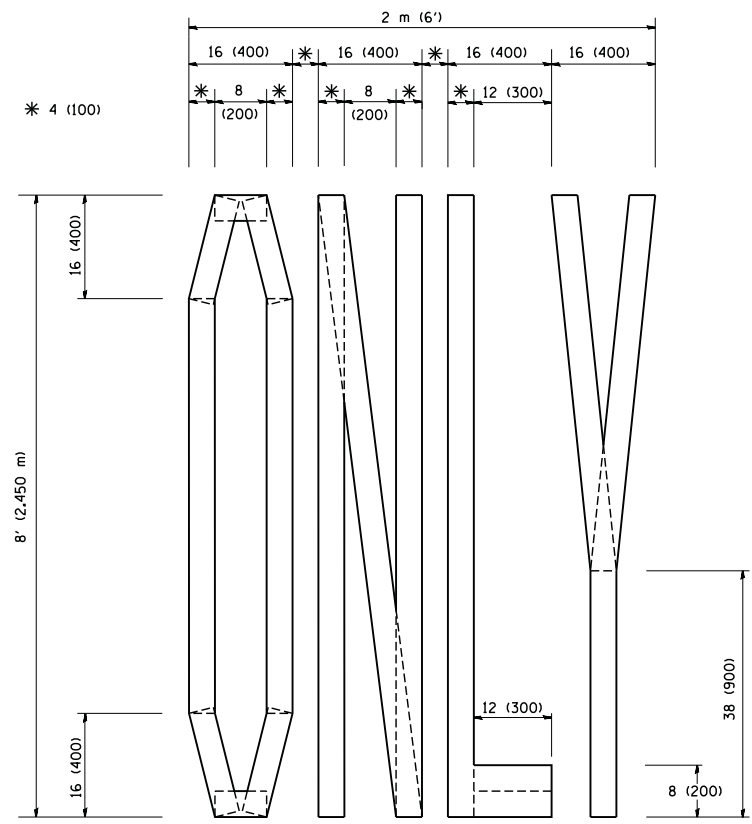
- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
  - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
  - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
  - ⑥ ONLY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

FILE NAME =	USER NAME = leuss	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
ce:\pw\work\PWID00\LEUSA\0108315\c12.dgn		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/22/2010	DATE - 01-90	REVISED - S.P.B. 01-10

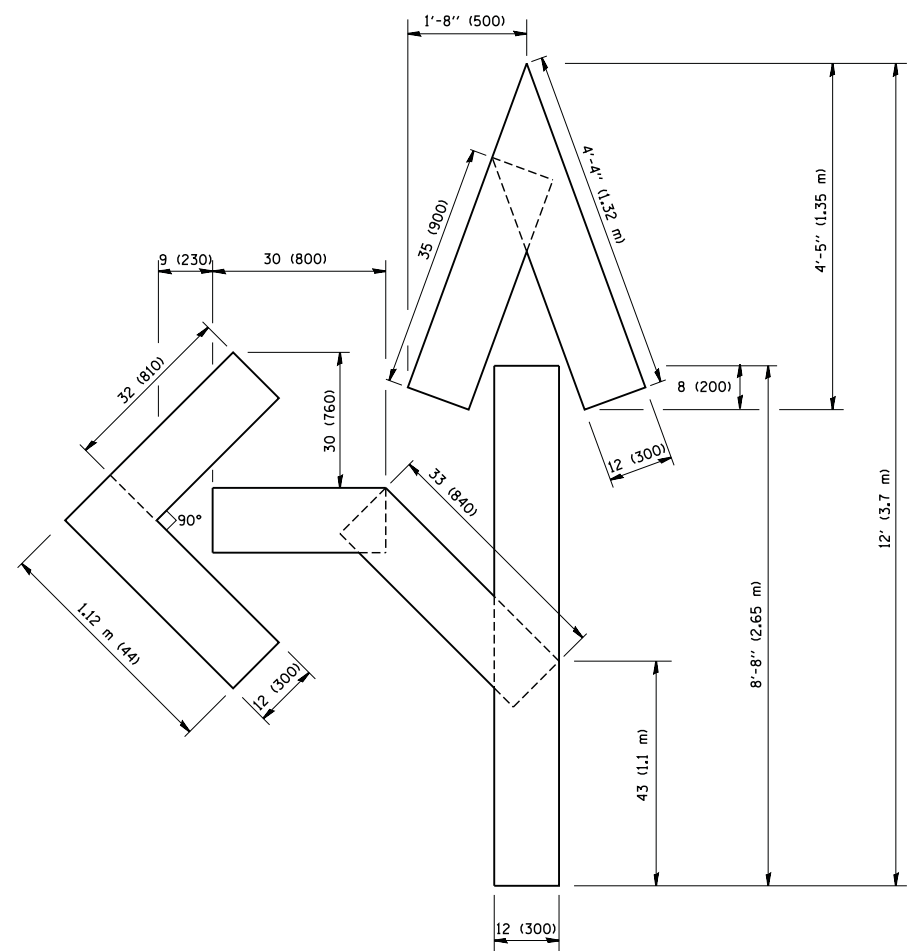
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

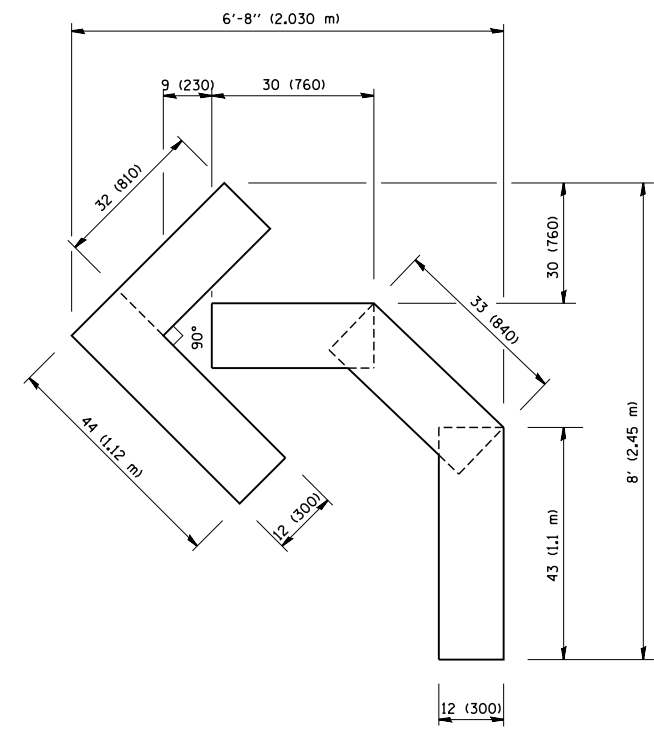
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	333
TC-12		CONTRACT NO. 60P63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



QUANTITY  
 4 (100) LINE = 64.1 ft. (19.7 m)  
 21.1 sq. ft. (1.97 sq. m)



QUANTITY  
 4 (100) LINE = 82.5 ft. (25.3 m)  
 27.5 sq. ft. (2.53 sq. m)



QUANTITY  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.39 sq. m)

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

FILE NAME = W:\diststd\22x34\c16.dgn	USER NAME = gaglianobt	DESIGNED - DRAWN -	REVISED -T. RAMMACHER 06-05-96 REVISED -T. RAMMACHER 11-04-97
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	
PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00	

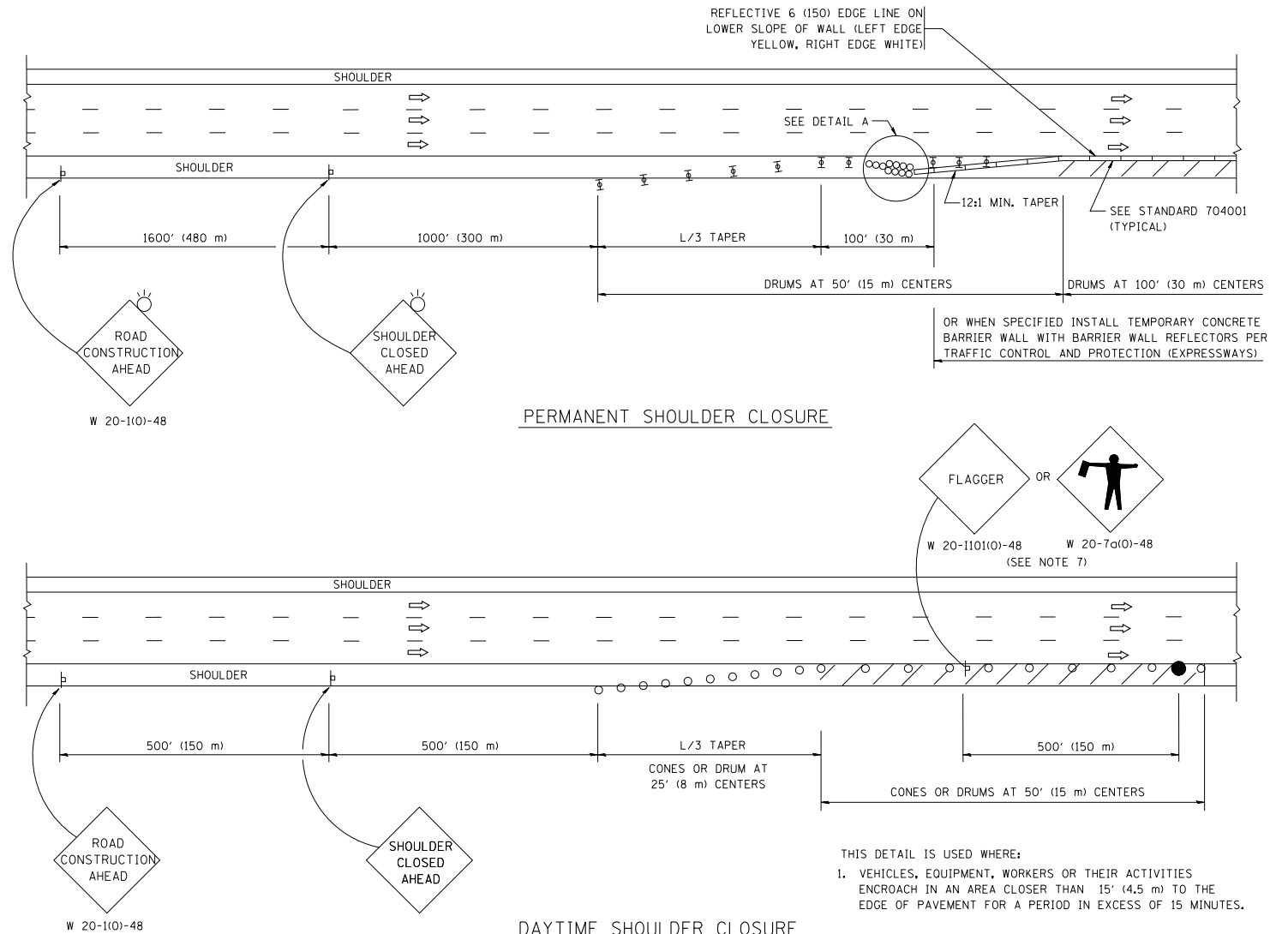
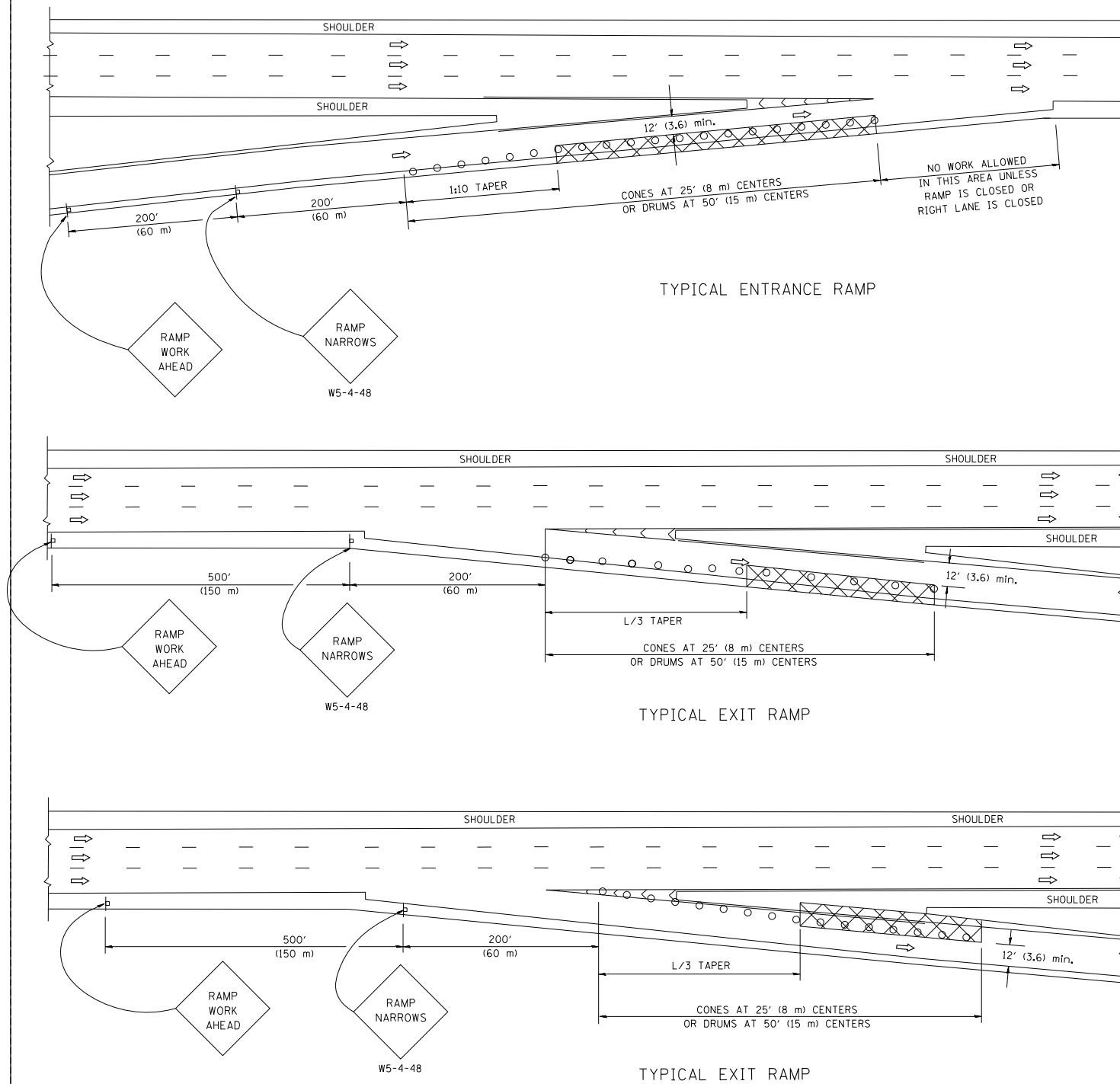
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 334
TC-16		CONTRACT NO. 60F63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PARTIAL RAMP CLOSURE DETAILS

SHOULDER CLOSURE DETAILS



SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:
 

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

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT.

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

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

FILE NAME = W:\diststd\22x34\17.dgn	USER NAME = leuso	DESIGNED -	REVISED - 04-03
		DRAWN - D.W.S.	REVISED - J.A.F. 12-06
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/26/2010	DATE - 11-96	REVISED - S.P.B. 12-09

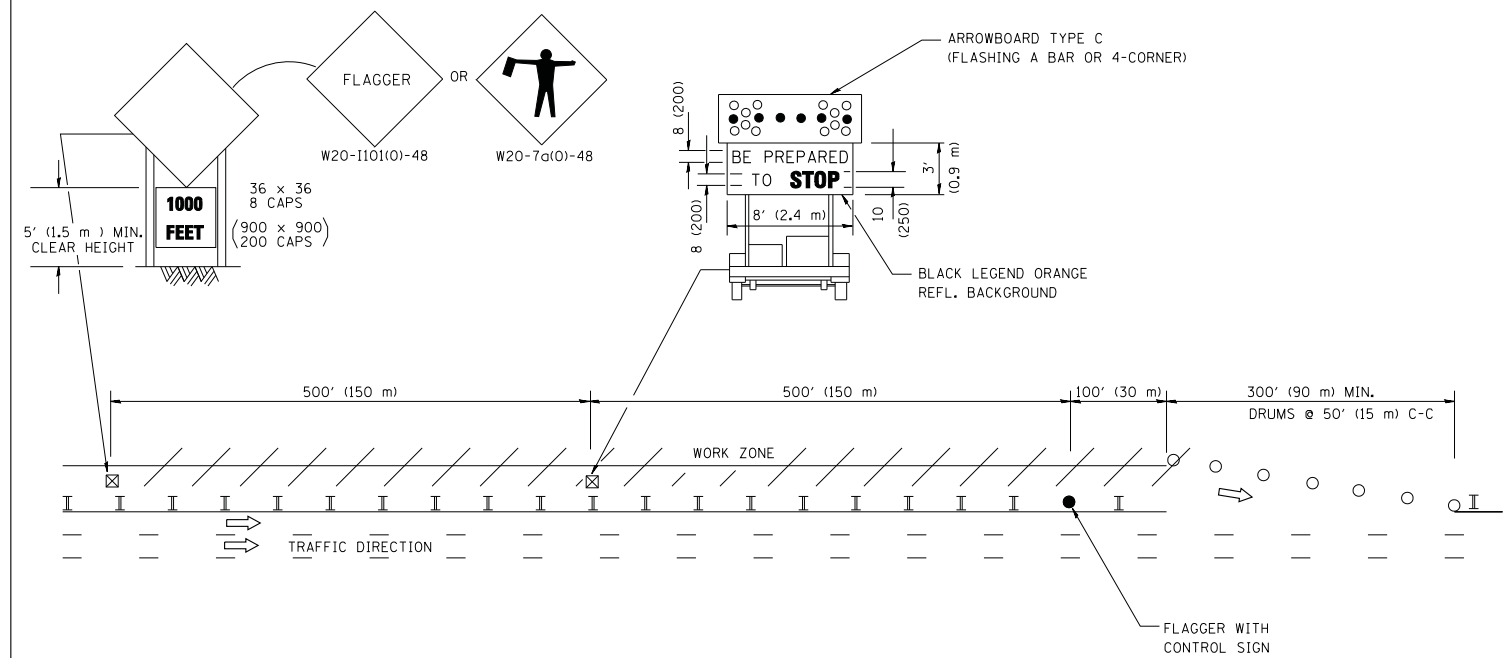
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

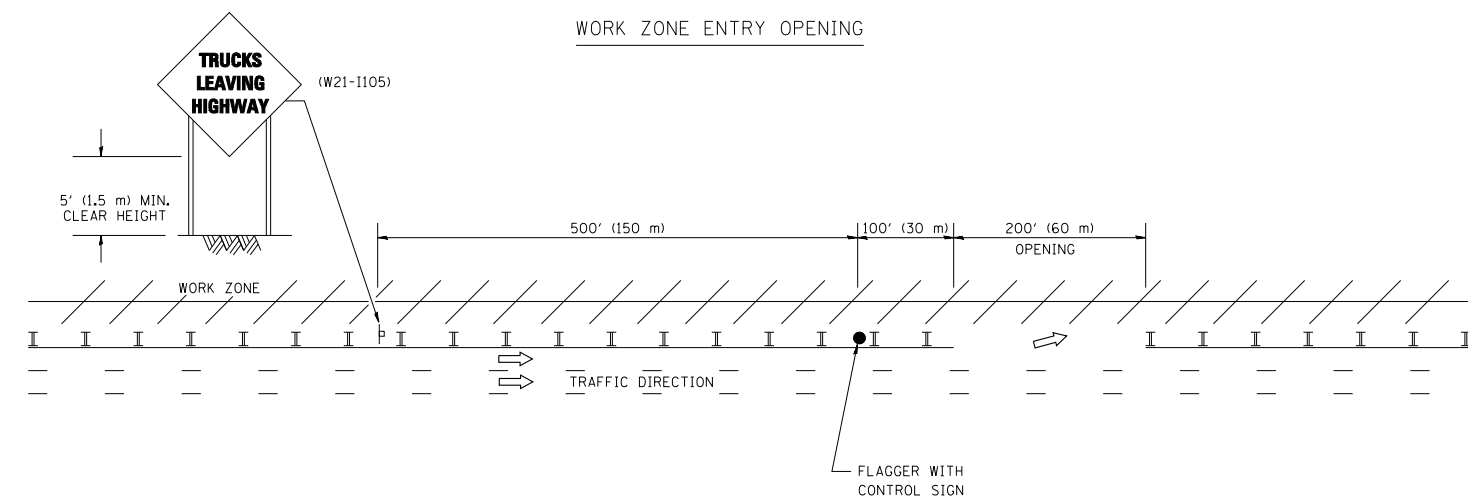
F.A.I. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 335
TC-17		CONTRACT NO. 60P63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\diststd\22x34\tc18.dgn	USER NAME = leuso	DESIGNED -	REVISED - J.A.F. 04-03
		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/26/2010	DATE -	REVISED - S.P.B. 12-09

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS  
AT WORK ZONE OPENINGS

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

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R		368	336
TC-18		CONTRACT NO. 60P63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**ROUTE MARKERS**

FOR U.S. ROUTES  
M1-40-2424

FOR ILLINOIS ROUTES  
M1-50-2424

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

**ARROWS SIGNS**

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

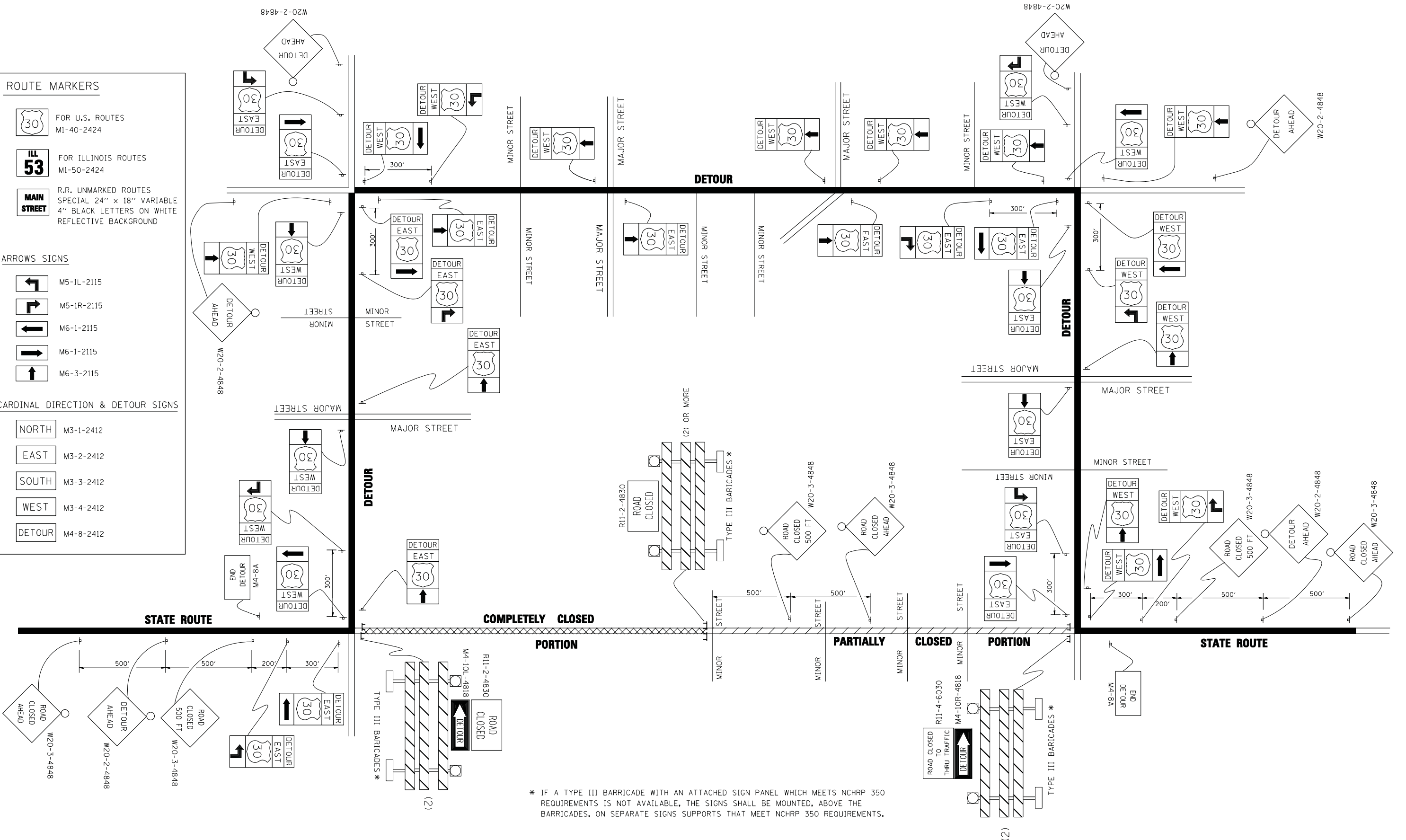
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



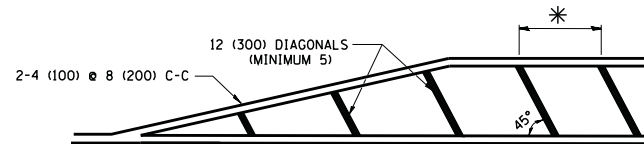
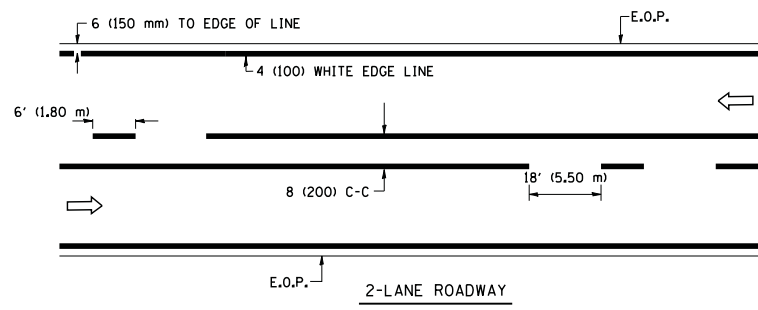
\* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - 10-18-02
ct:\pwwork\pwwid001\DRIVAKOSGN\d0108315\1421.dgn		DRAWN -	REVISED - R. BORO 09-14-09
		PLOT SCALE = 49.9999' / IN.	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

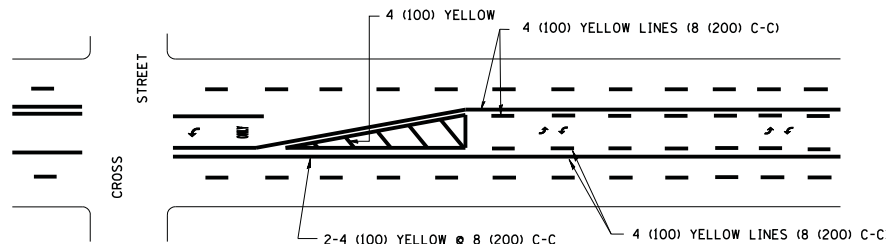
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	337
<b>TC-21</b>		CONTRACT NO. 60P63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



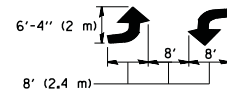
\* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

\* DIAGONAL LINE SPACING: 20' (6.1 m) C-C

PAINTED MEDIANS

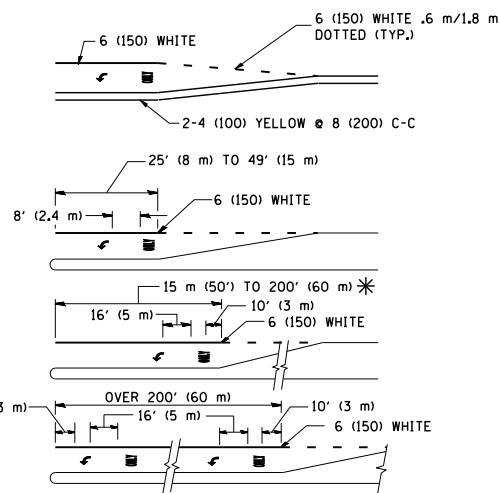


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

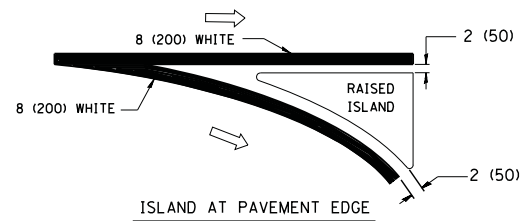
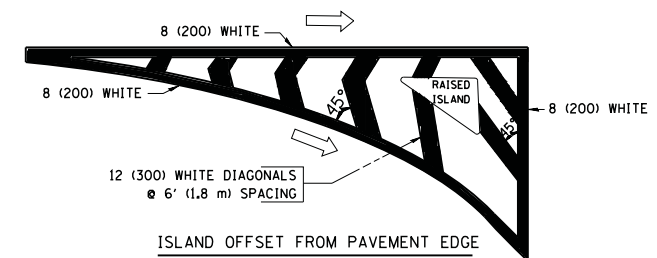


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.8 SQ. FT. (1.47 m<sup>2</sup>) ONLY AREA = 22.9 SQ. FT. (2.13 m<sup>2</sup>)

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

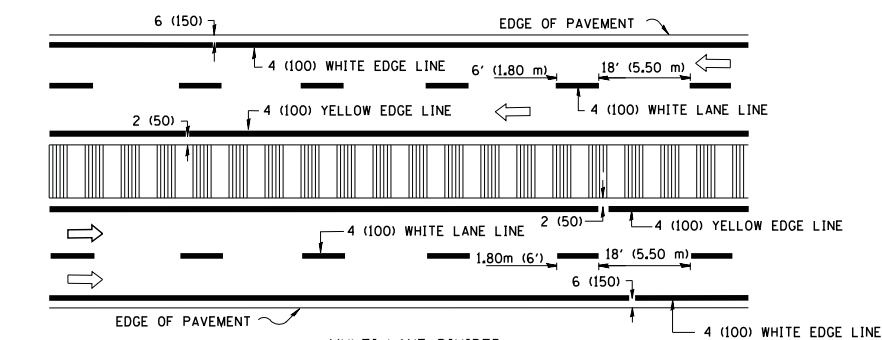
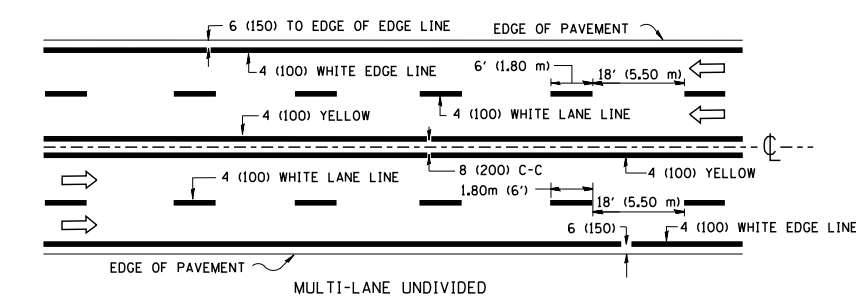


TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 8 (200) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2'-4" (700) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )

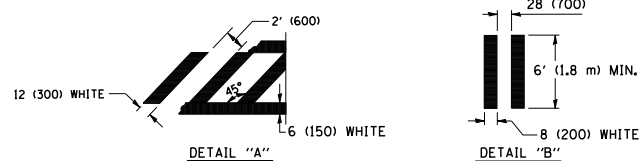
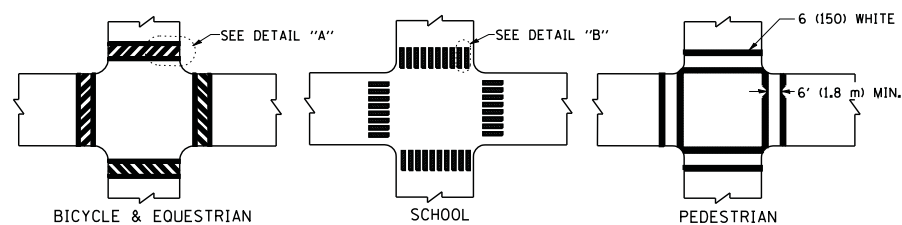
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

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



NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

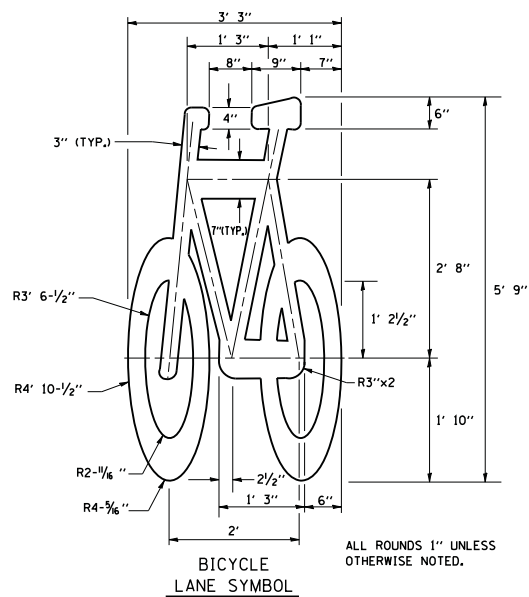
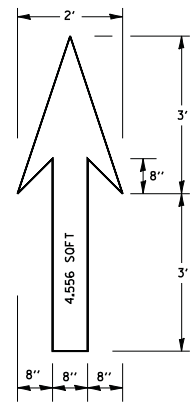
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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO  
TYPICAL PAVEMENT MARKINGS

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

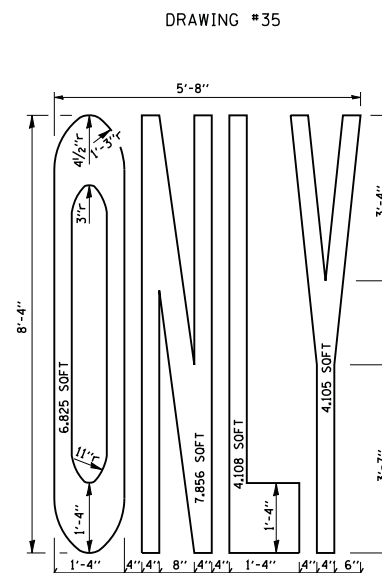
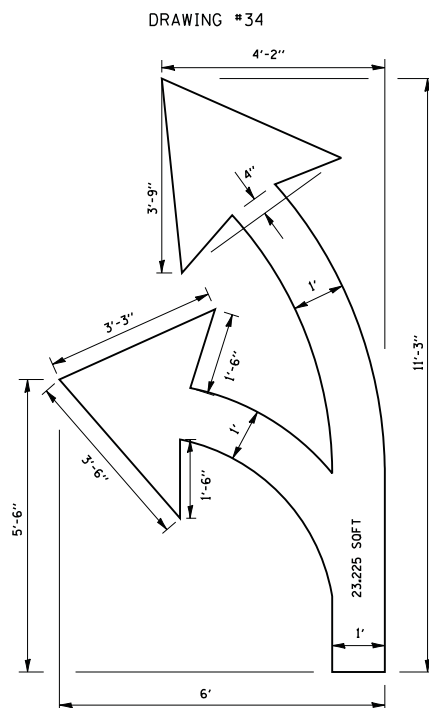
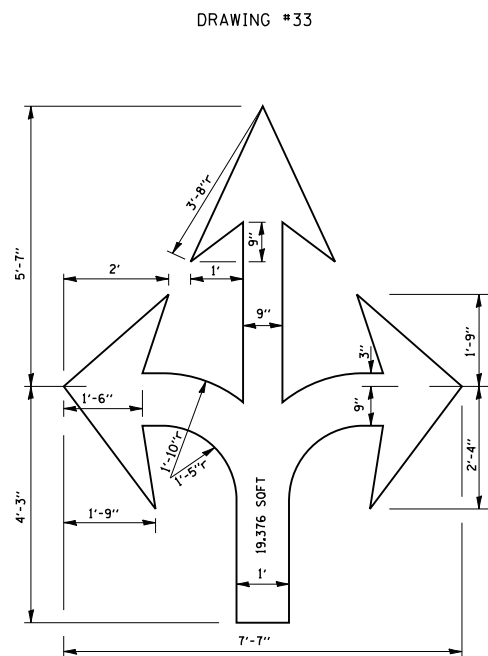
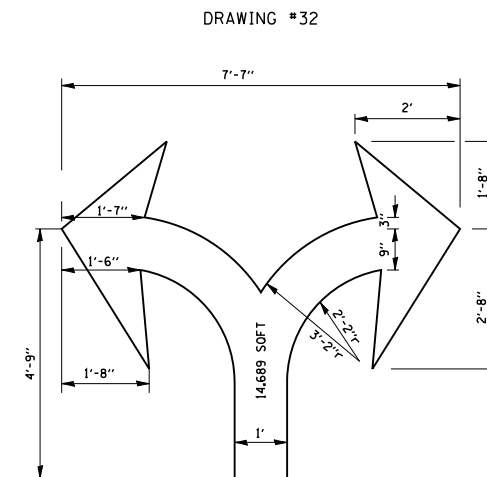
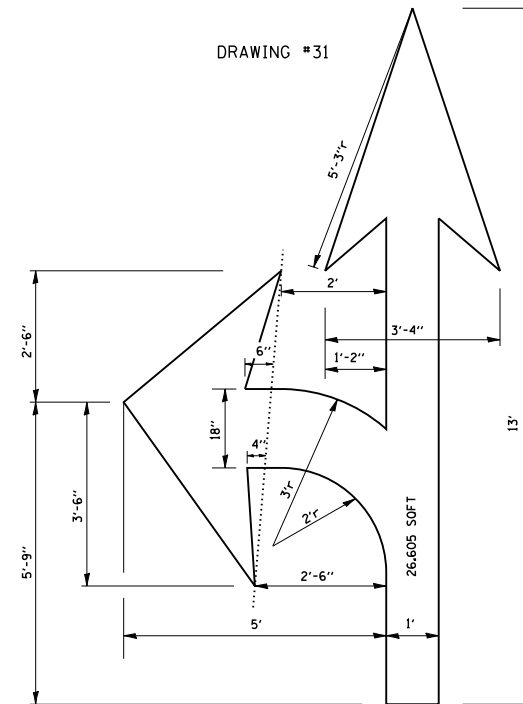
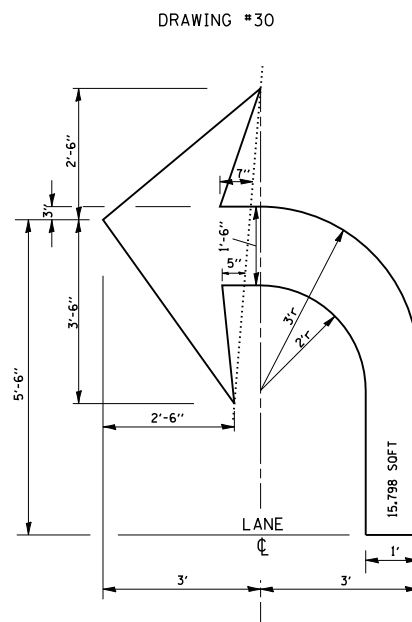
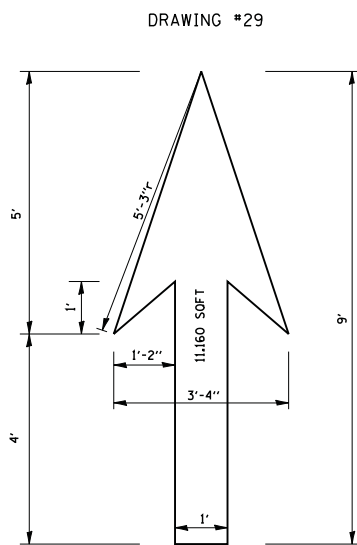
F.A.I. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 338
TC-24		CONTRACT NO. 60P63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTE:**

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

**TYPICAL BIKE LANE SYMBOLS**  
DRAWING #28



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

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USER NAME = gaglionobt  
PLOT SCALE = 50.000' / IN.  
PLOT DATE = 1/4/2008

DESIGNED -	REVISED - T. RAMMACHER 12-07-00
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

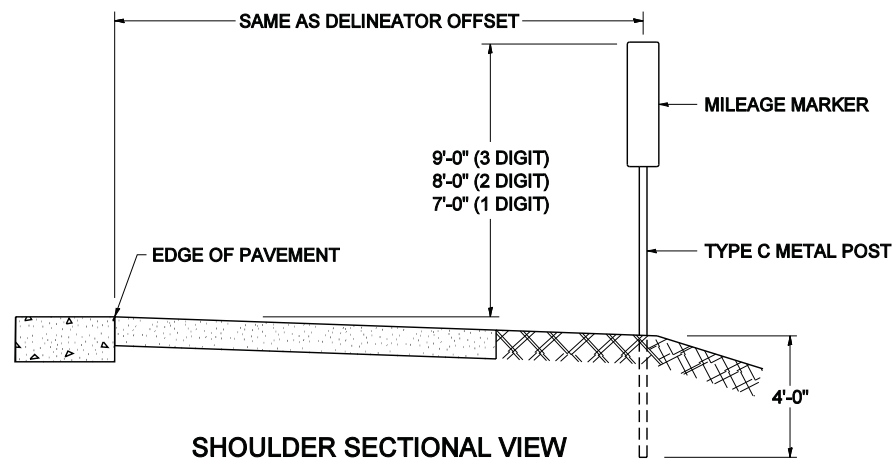
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO**  
**TYPICAL PAVEMENT MARKINGS**

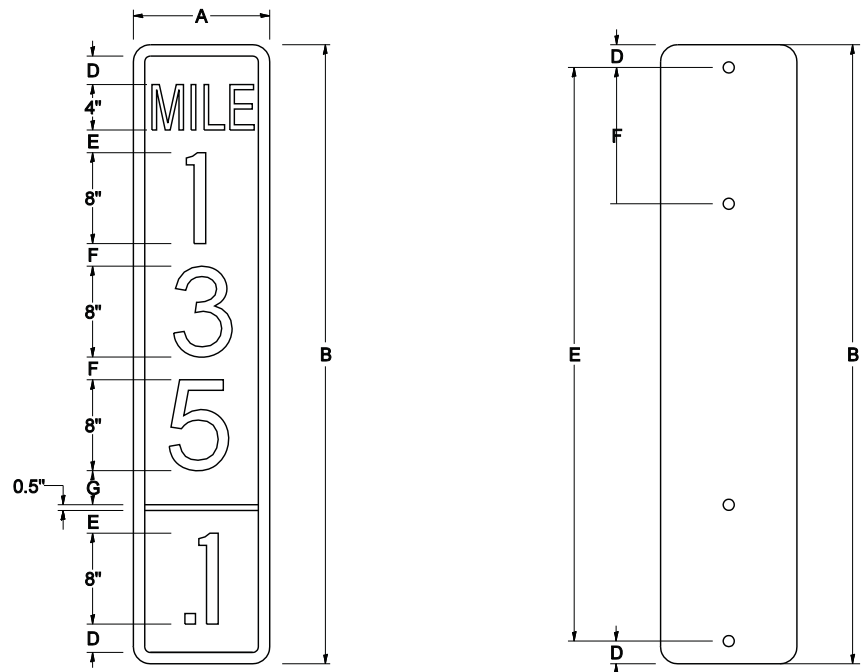
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	339
<b>TC-24</b>		CONTRACT NO. 60P63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

### STANDARD DESIGN FOR MILE POST



SHOULDER SECTIONAL VIEW

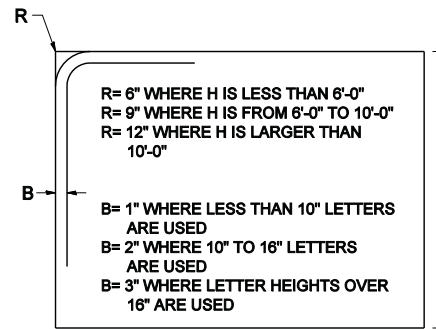


SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	DIGIT
12 x 24	12.0	24.0	1.5	1.5	1.5	N/A	1.5	1
12 x 36	12.0	36.0	1.5	2.0	2.0	2.0	1.5	2
12 x 48	12.0	48.0	1.5	2.5	2.0	2.0	2.5	3

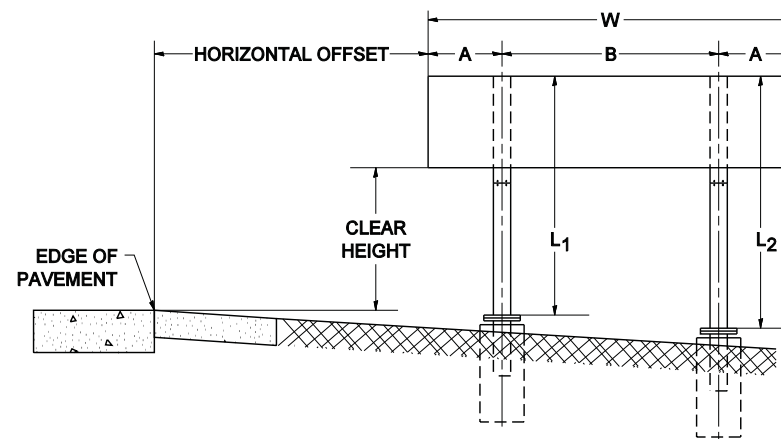
BLANK	A	B	C	D	E	F
B9-1224	12.0	24.0	1.5	2.0	20.0	N/A
B9-1236	12.0	36.0	1.5	2.0	32.0	12.0
B9-1248	12.0	48.0	1.5	2.0	44.0	12.0

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

### BORDER AND RADIUS LAYOUT



### MAJOR GUIDE SIGN LAYOUT

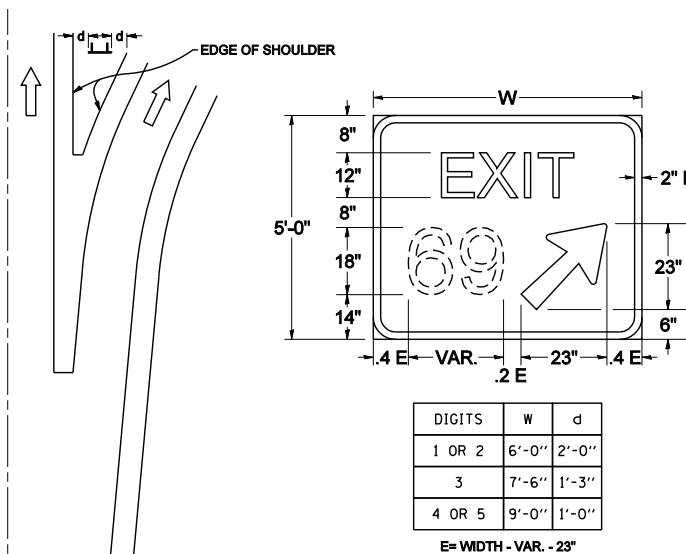


NUMBER OF STEEL SUPPORTS	A	B
2	.2 W	.6 W
3	.15 W	.35 W
4	.125 W	.25 W
5	.1 W	.2 W

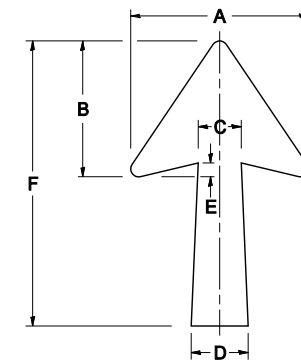
"L1" IS THE LENGTH OF SUPPORT, NOT INCLUDING THE STUB PROJECTION, CLOSEST TO THE EDGE OF THE PAVEMENT.

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

### GORE SIGNS

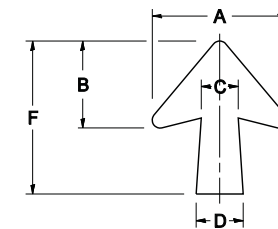


### STANDARD ARROWS FOR INTERSTATE GUIDE SIGNS



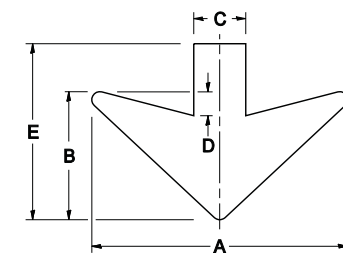
ARROW SYMBOL	A	B	C	D	E	F	R
24 1/4 x 15 1/8	15 1/8	11 1/8	3 3/4	5	1 5/8	2 1/4	1/8
29 1/4 x 18 1/4	18 1/4	14	4 1/2	6	1 1/2	2 9/4	3/4
35 5/8 x 22 1/4	22 1/4	17	5 3/8	7 1/8	1 3/4	35 5/8	1
18 1/4 x 11 1/4	11 1/4	8 3/4	3 1/8	3 3/8		18 1/4	

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



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

### DOWN ARROWS

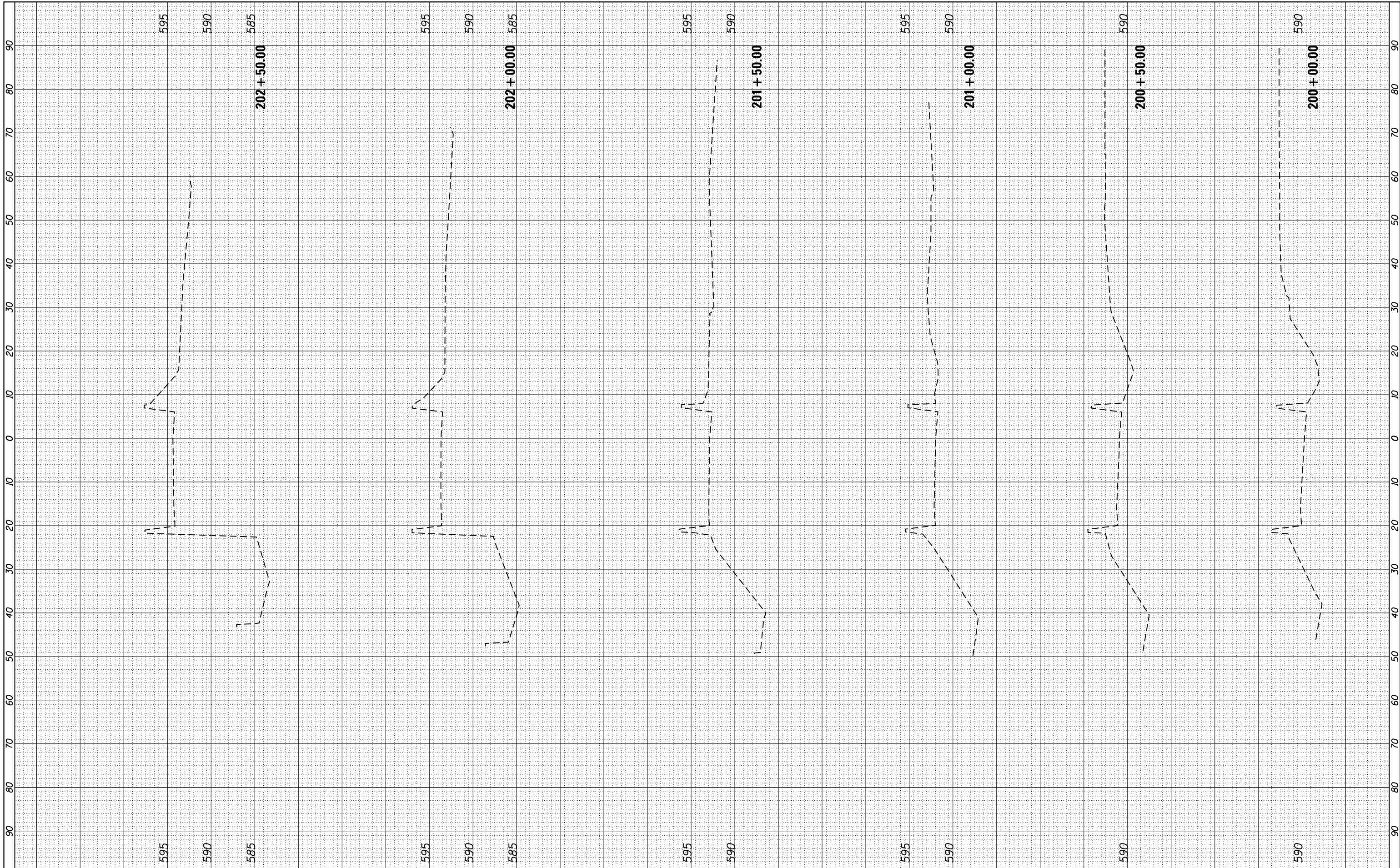


ARROW SYMBOL	A	B	C	D	E	R
16 1/2 x 24	24	12	5	1 1/2	16 1/2	3/4
22 x 32	32	16	6 1/2	3	22	1



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

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



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 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 3/25/2013

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

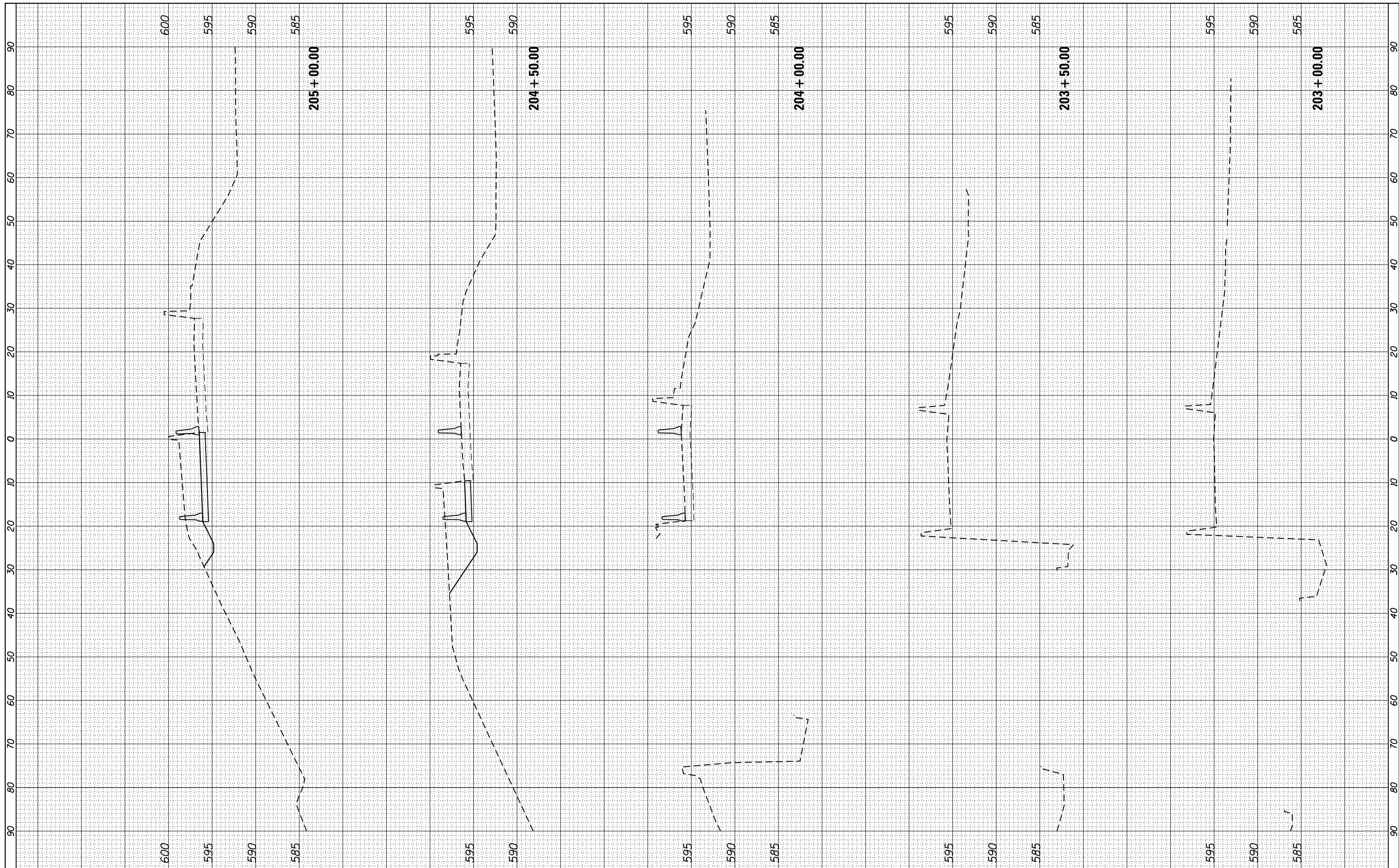
**CROSS SECTIONS  
 RAMP C TEMPORARY RAMP  
 STAGE I**

SCALE: SHEET OF SHEETS STA. 200+00.00 TO STA. 202+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	341
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



FILE NAME =  
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USER NAME = r9e11  
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 PLOT DATE = 3/25/2013

DESIGNED -  
 DRAWN -  
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REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 RAMP C TEMPORARY RAMP  
 STAGE I**

SCALE: SHEET OF SHEETS STA. 203+00.00 TO STA. 205+00.00

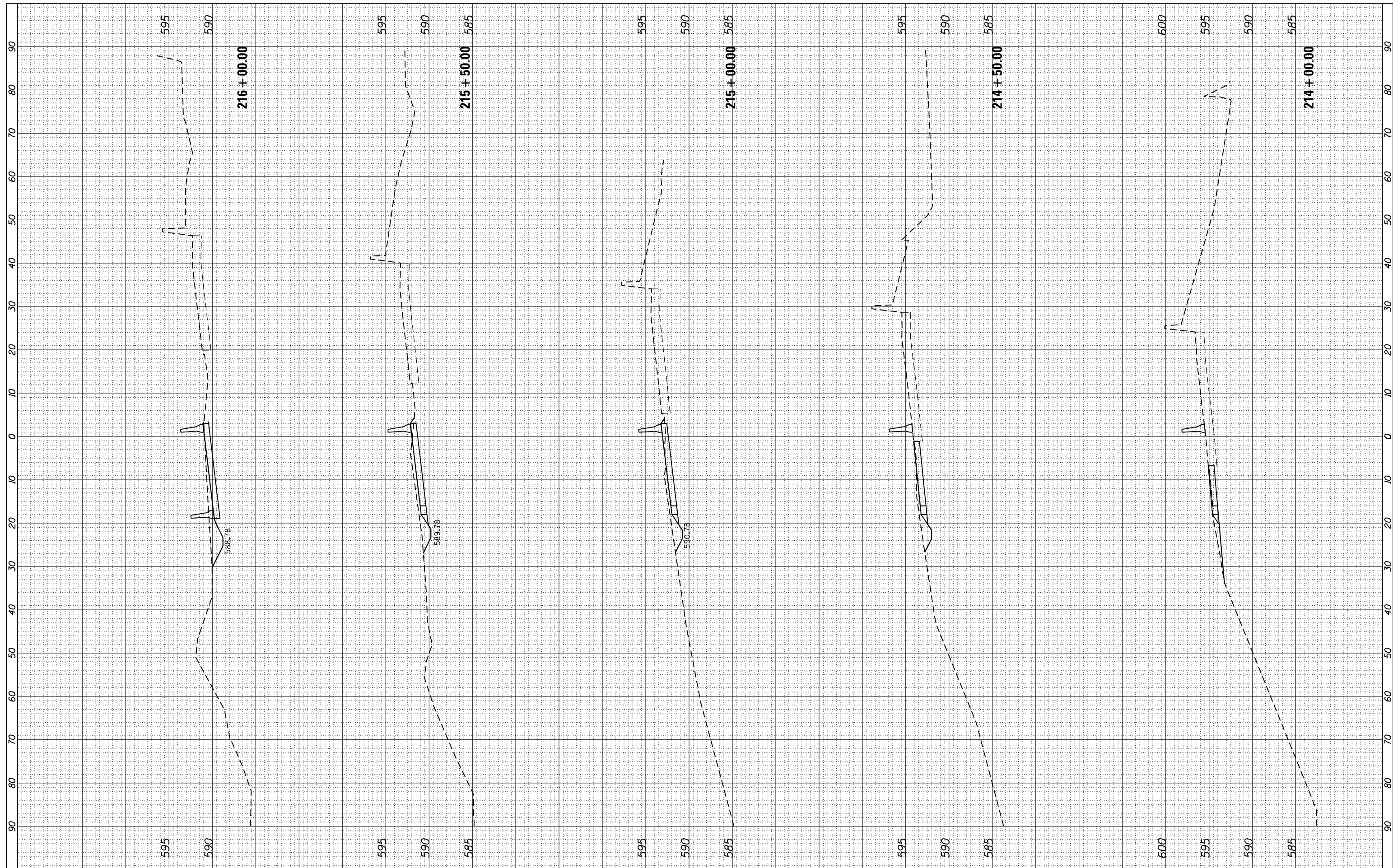
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	342
CONTRACT NO. 60F63				

ILLINOIS FED. AID PROJECT



FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



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CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

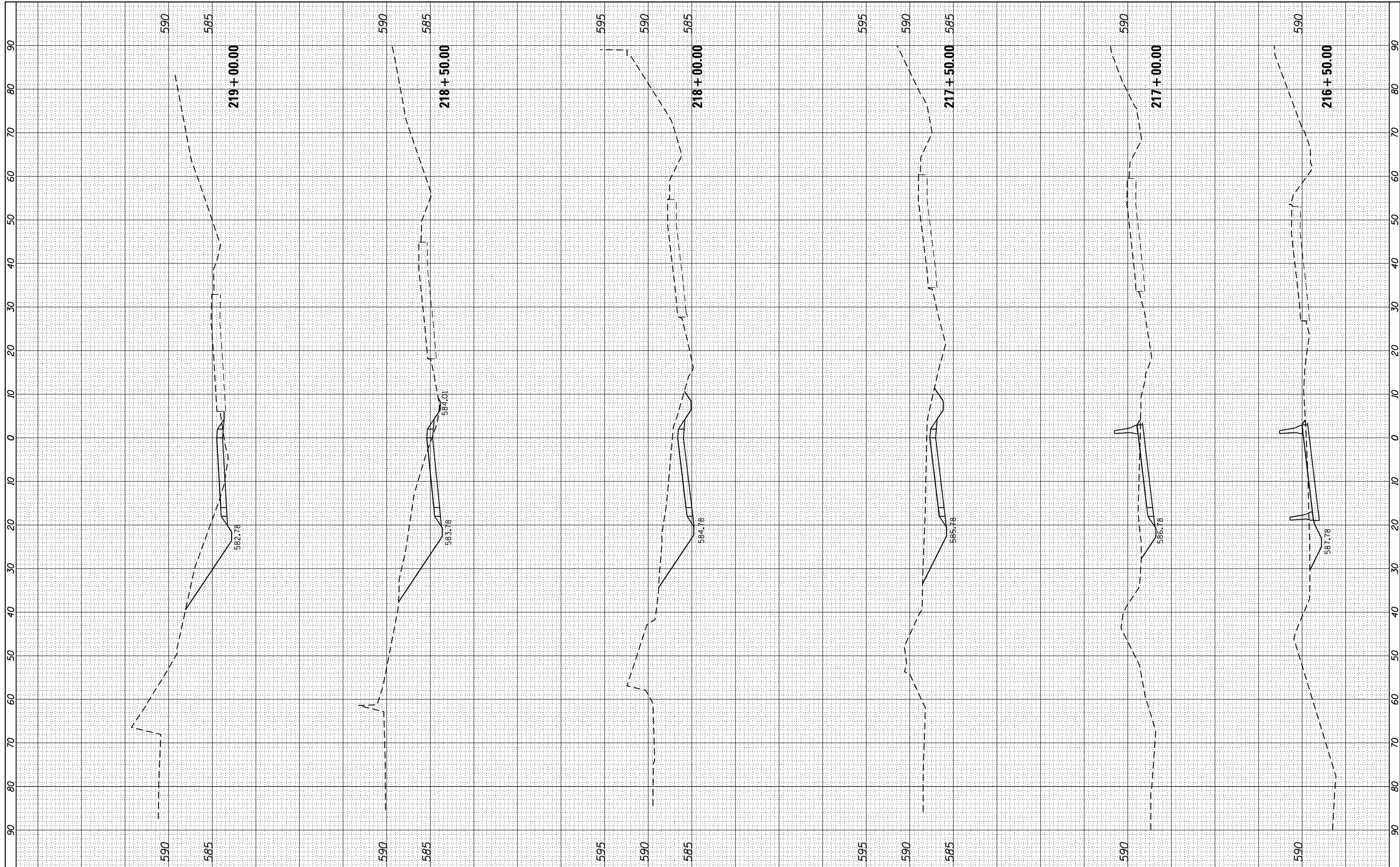
**CROSS SECTIONS  
 RAMP C TEMPORARY RAMP  
 STAGE I**

SCALE: SHEET OF SHEETS STA. 214+00.00 TO STA. 216+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	344
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

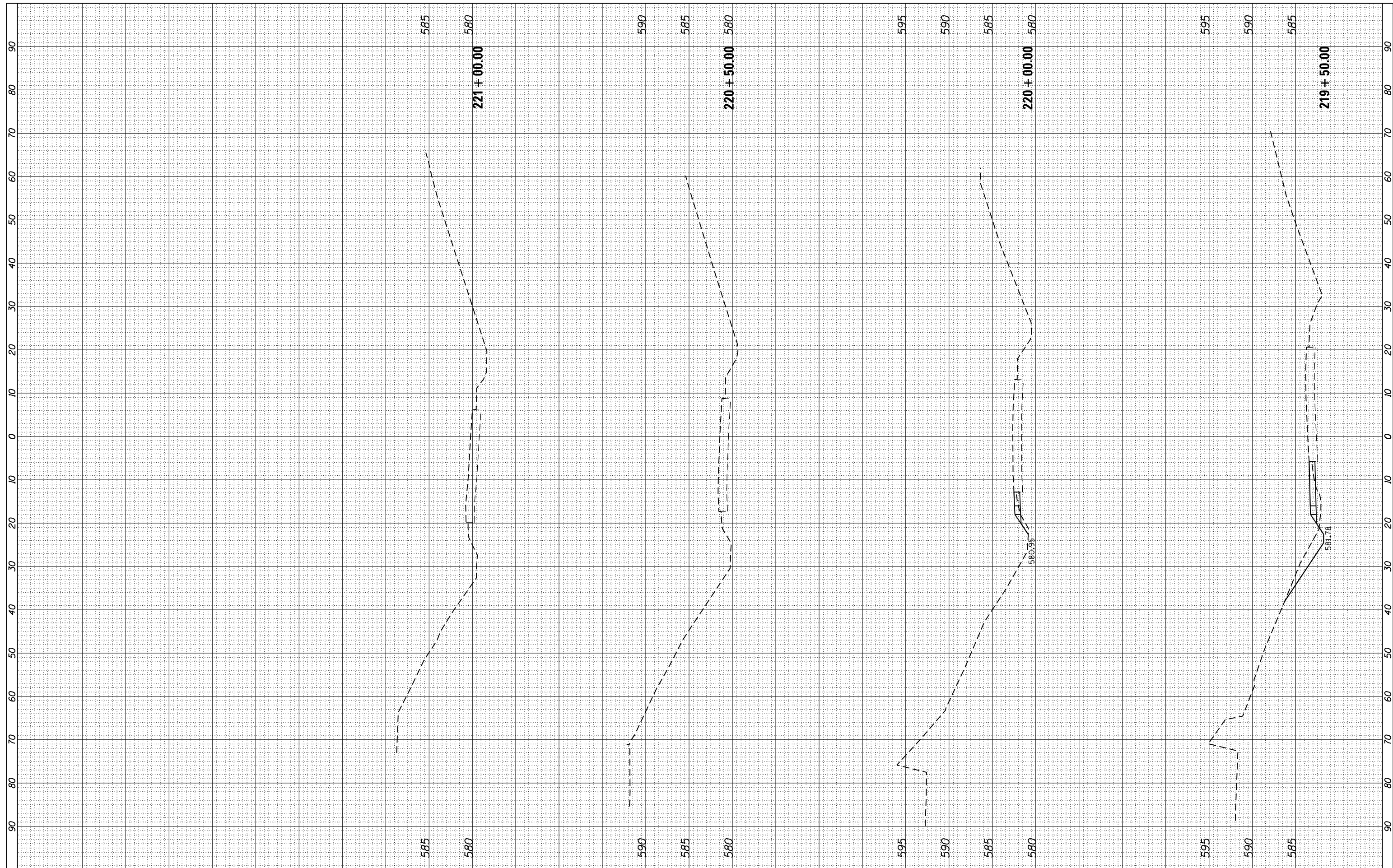
**CROSS SECTIONS  
 RAMP C TEMPORARY RAMP  
 STAGE I**

SCALE: SHEET OF SHEETS STA. 216+50.00 TO STA. 219+00.00

F.A. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 345
CONTRACT NO. 60F63			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

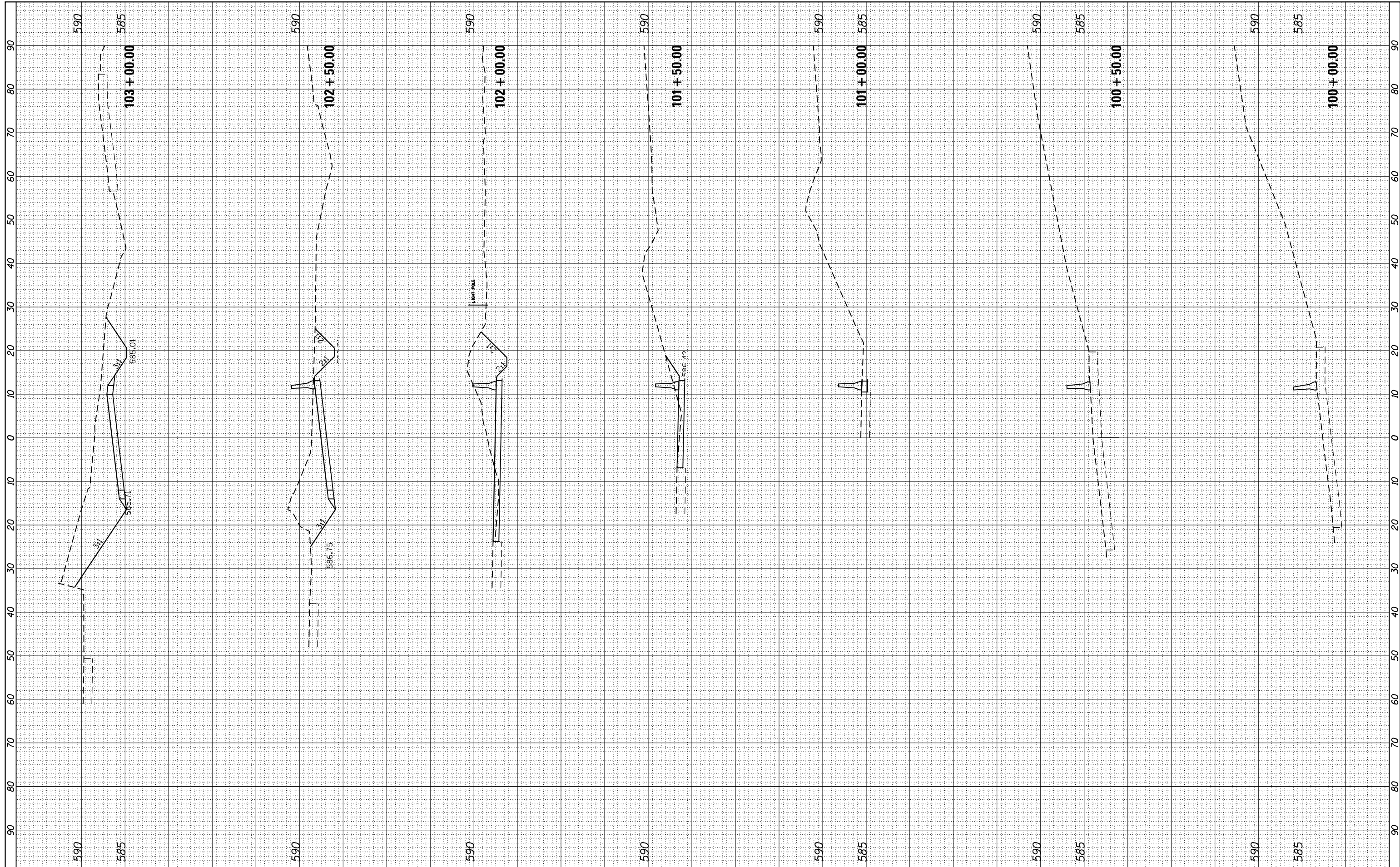
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 STAGE I**

SCALE: SHEET OF SHEETS STA. 219+50.00 TO STA. 221+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	346
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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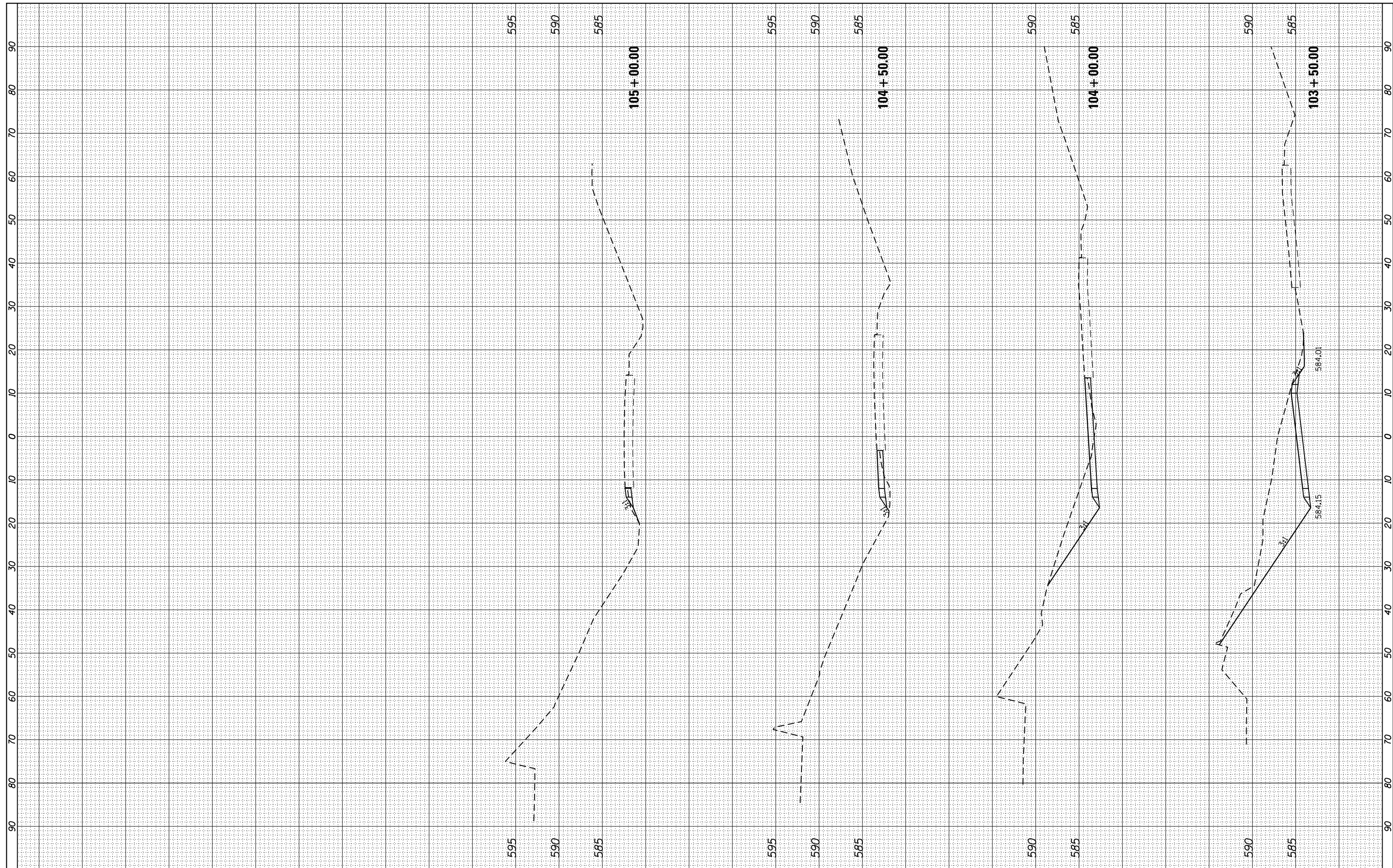
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 I-90/94 TEMPORARY RAMP  
 STAGE II**  
 SCALE: SHEET OF SHEETS STA. 100+00.00 TO STA. 103+00.00

F.A. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 347
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

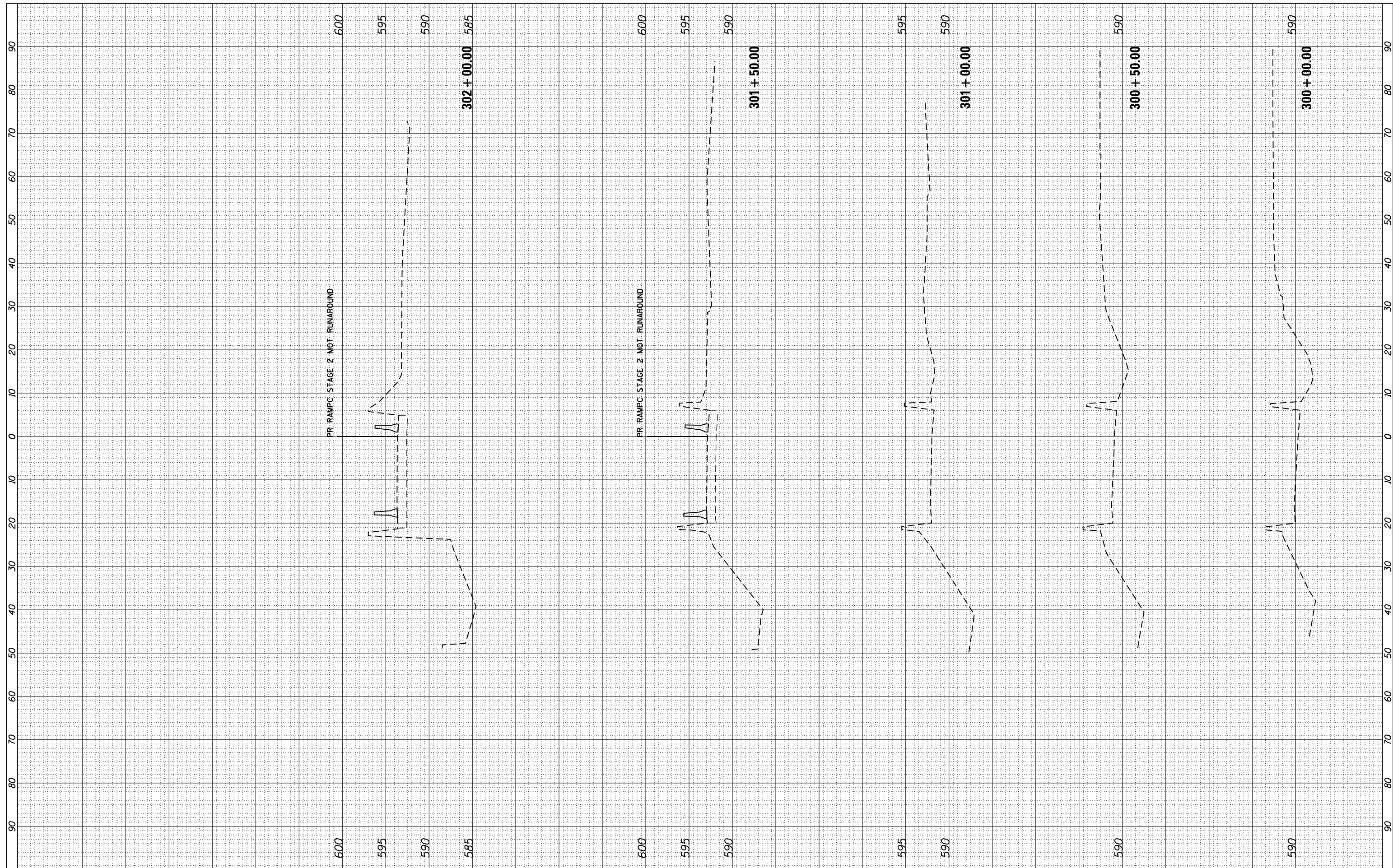
**CROSS SECTIONS  
 I-90/94 TEMPORARY RAMP  
 STAGE II**  
 SCALE: SHEET OF SHEETS STA. 103+50.00 TO STA. 105+00.00

F.A. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 348
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME =  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
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 STAGE III**

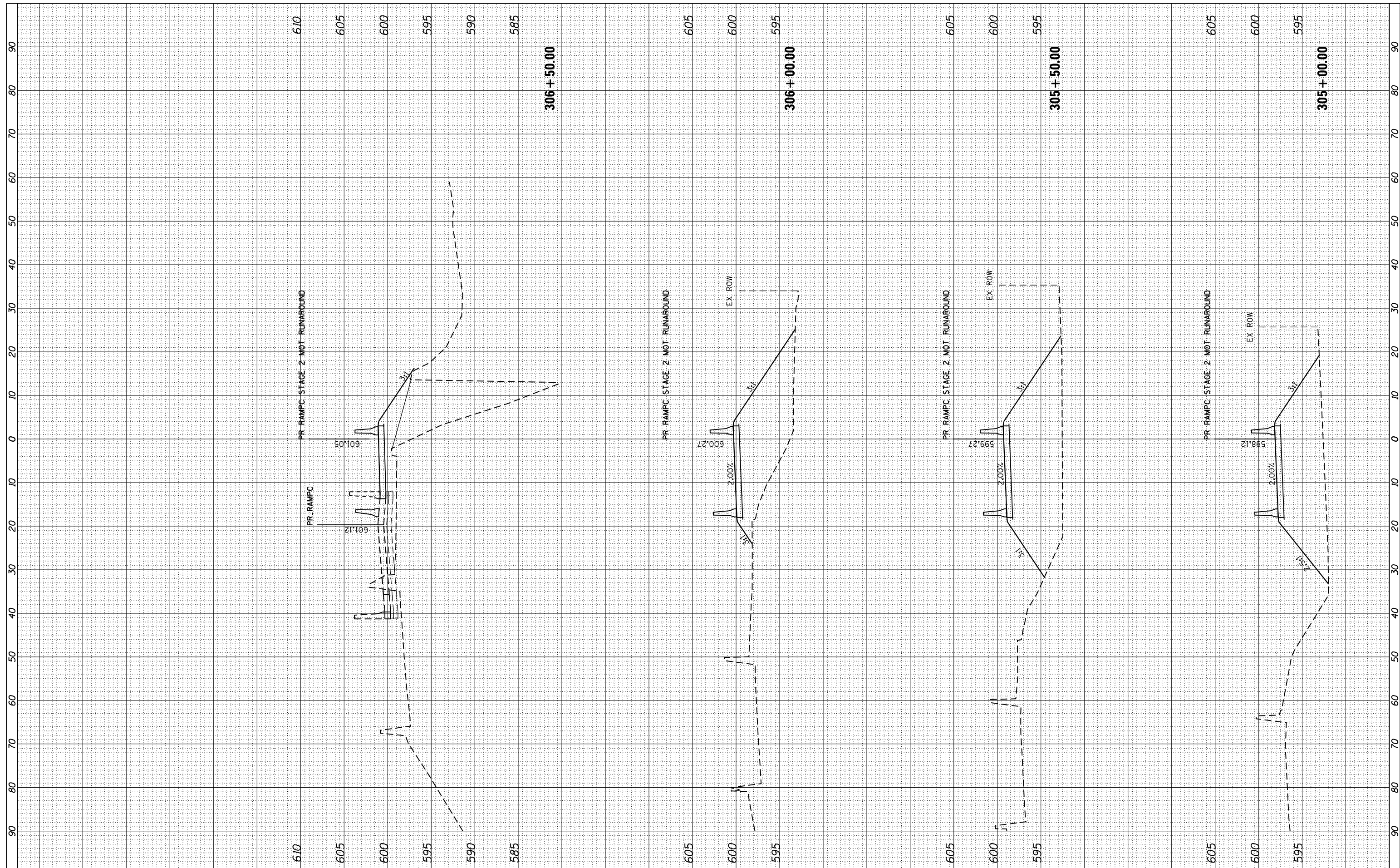
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	349
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME =  
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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

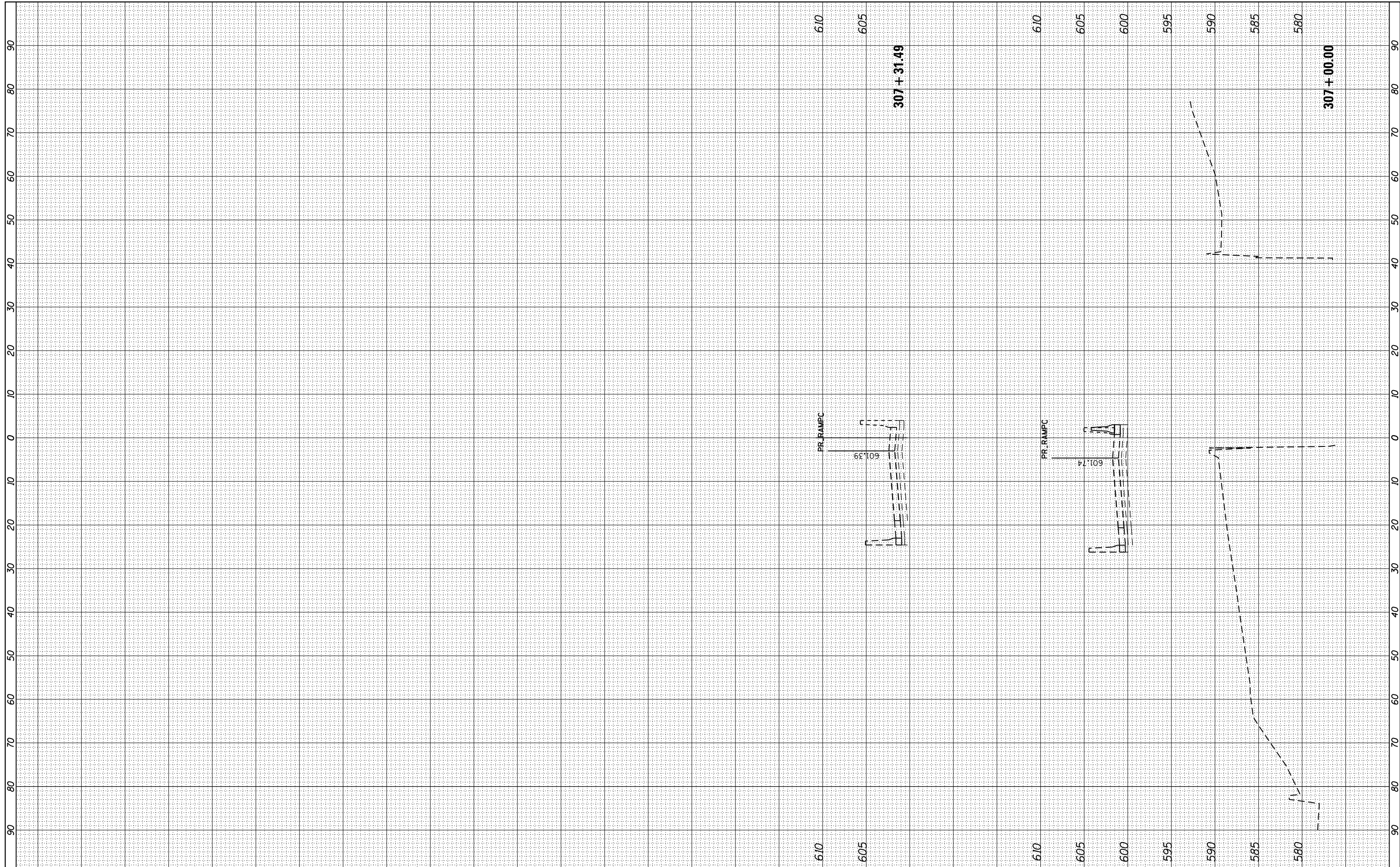
**CROSS SECTIONS  
 RAMP C TEMPORARY RAMP  
 STAGE III**

SCALE: SHEET OF SHEETS STA. 305+00.00 TO STA. 306+50.00

F.A. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 351
CONTRACT NO. 60F63				ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

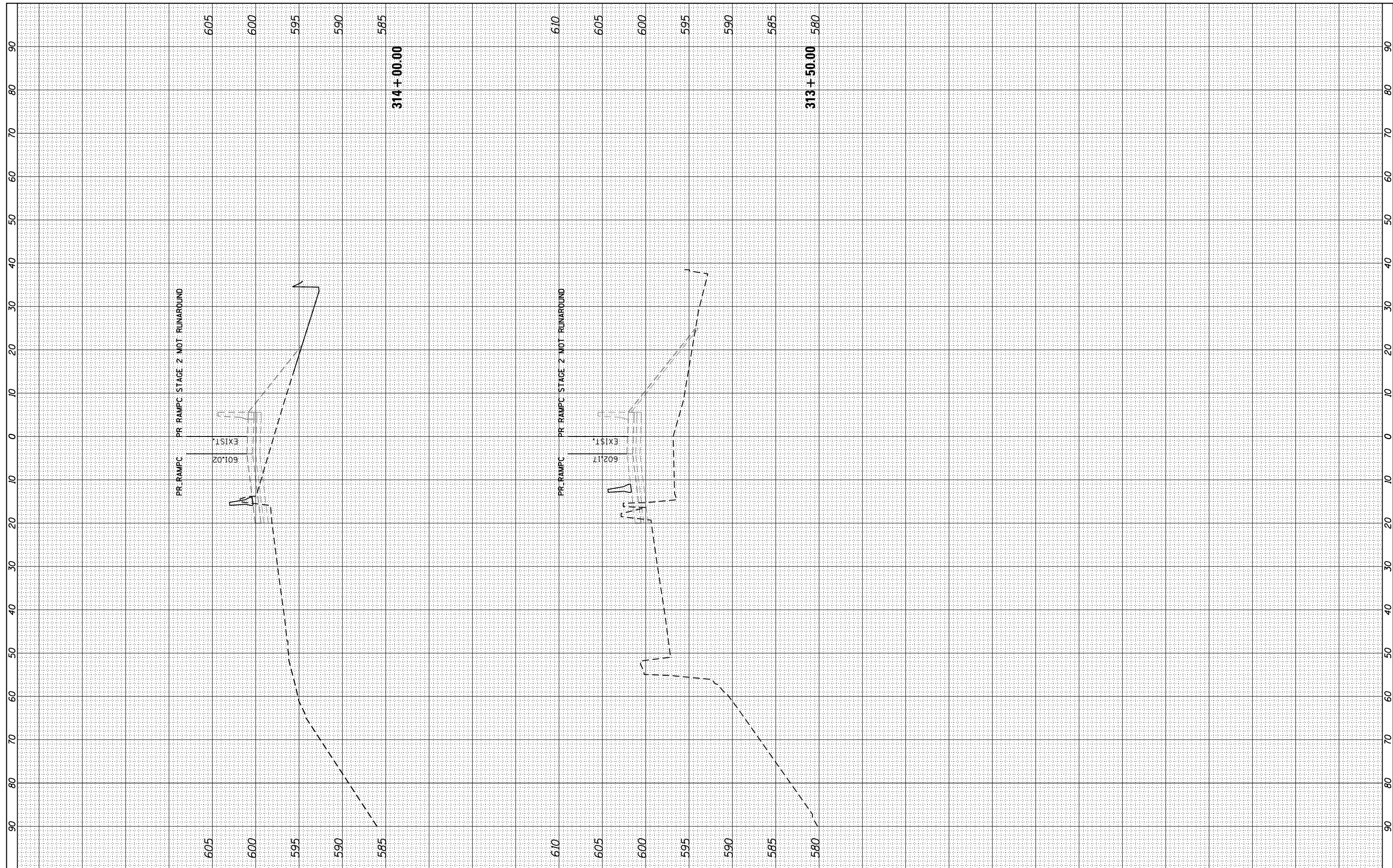
**CROSS SECTIONS  
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 STAGE III**

SCALE: SHEET OF SHEETS STA. 307+00.00 TO STA. 308+50.00

F.A. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 352
CONTRACT NO. 60F63			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



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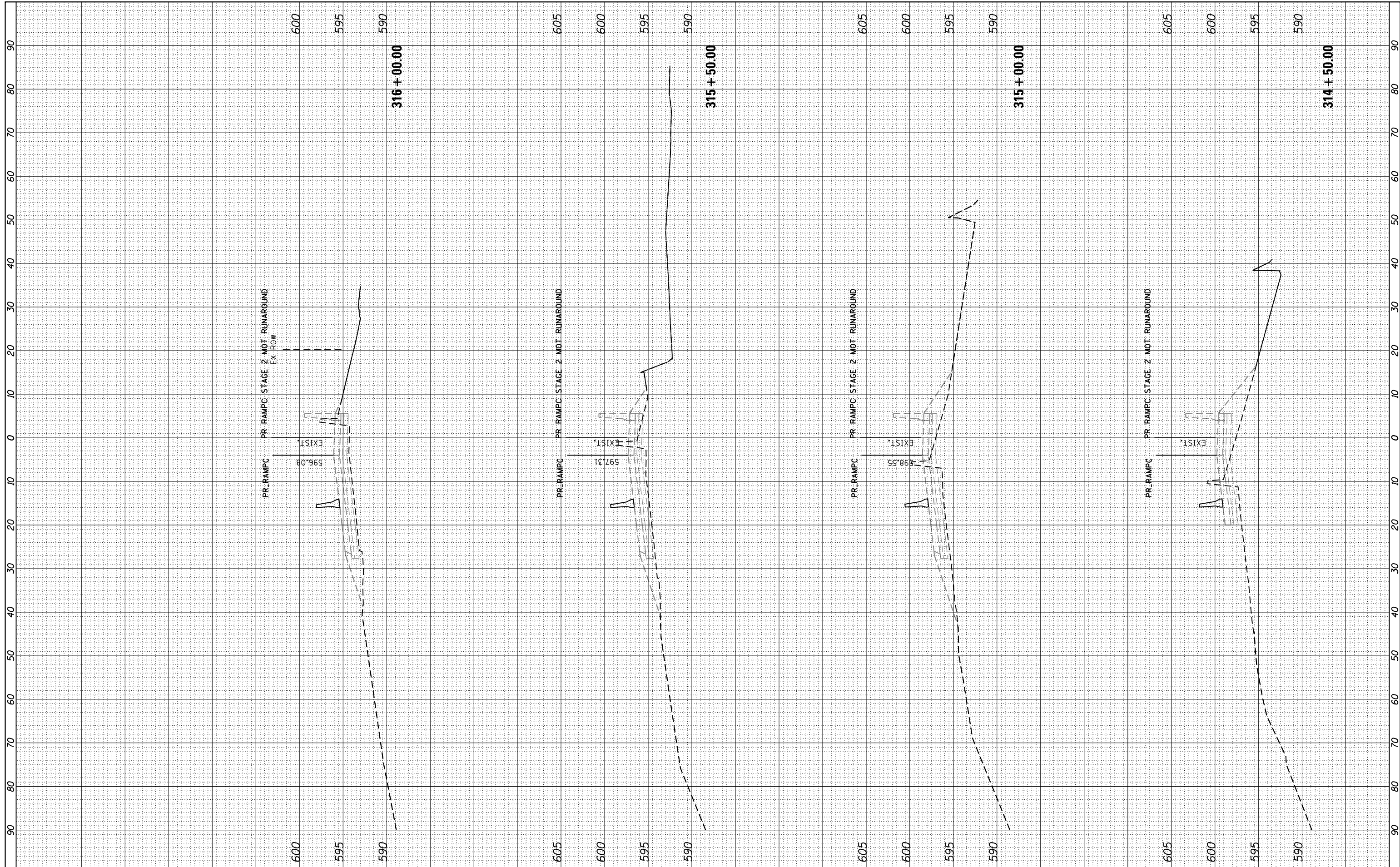
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 RAMP C TEMPORARY RAMP  
 STAGE III  
 SCALE: SHEET OF SHEETS STA. 312+50.00 TO STA. 314+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	353
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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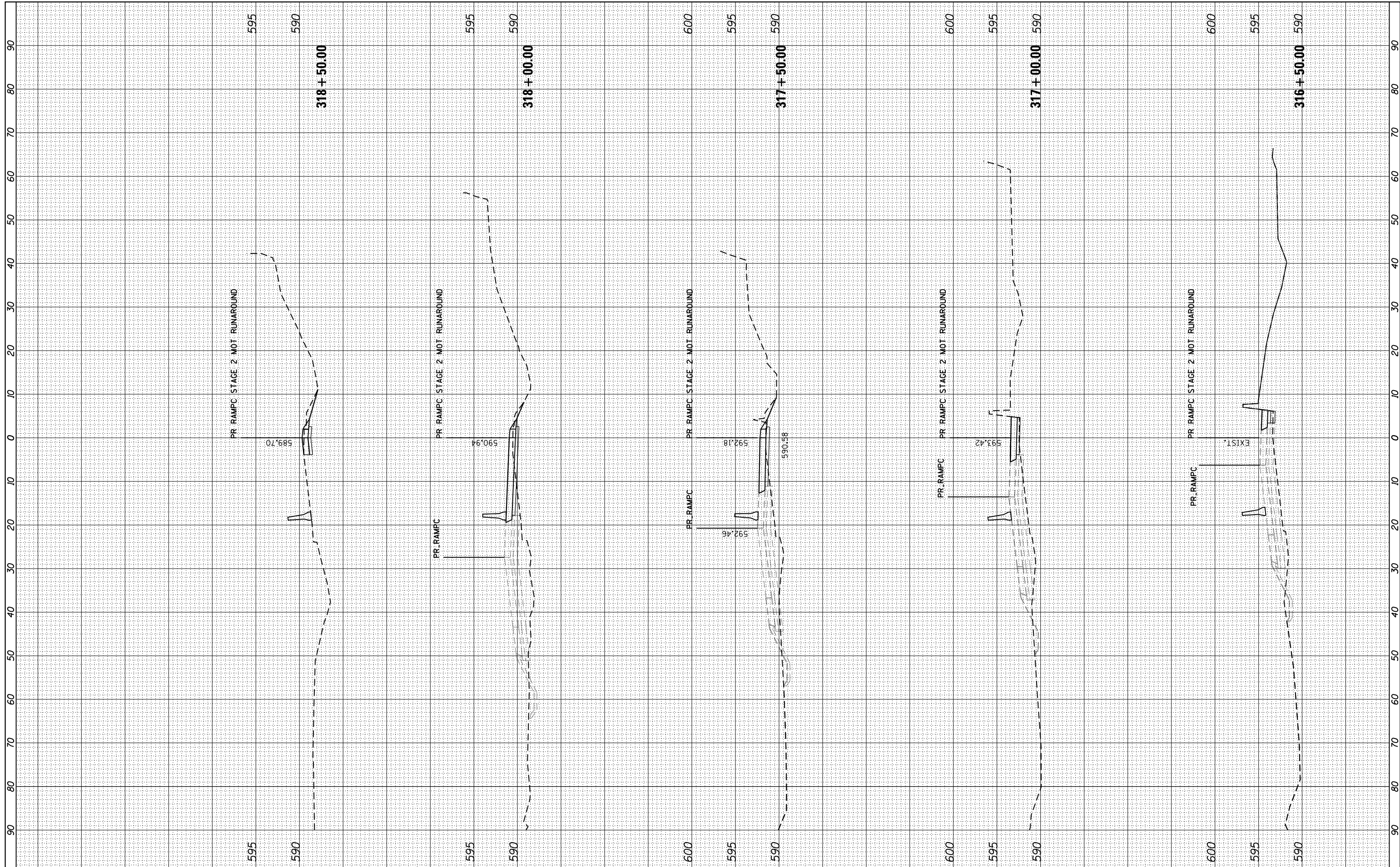
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 RAMP C TEMPORARY RAMP  
 STAGE III**  
 SCALE: SHEET OF SHEETS STA. 314+50.00 TO STA. 316+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	354
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

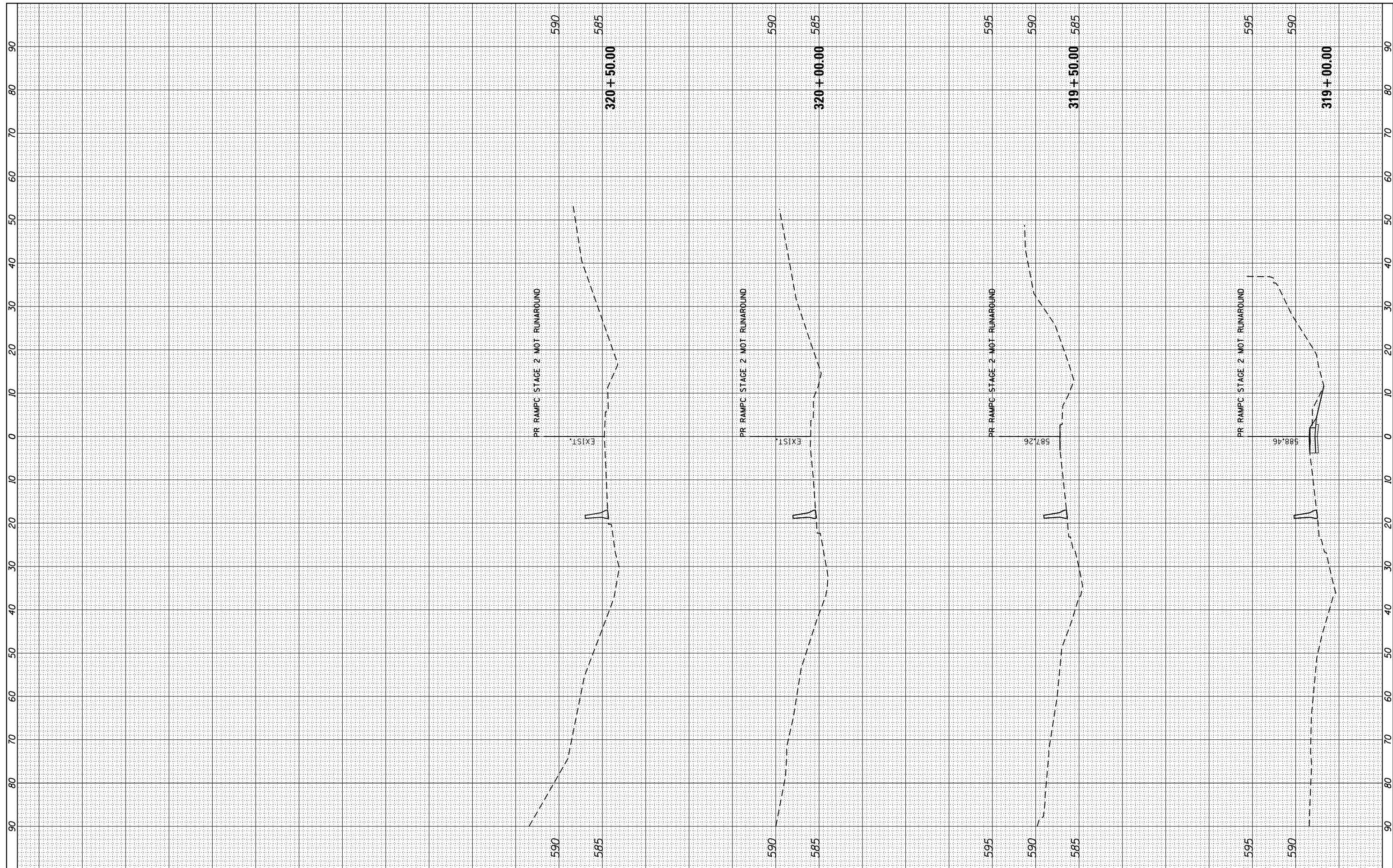
**CROSS SECTIONS  
 RAMP C TEMPORARY RAMP  
 STAGE III**

SCALE: SHEET OF SHEETS STA. 316+50.00 TO STA. 318+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	355
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

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

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



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 RAMP C TEMPORARY RAMP  
 STAGE III**

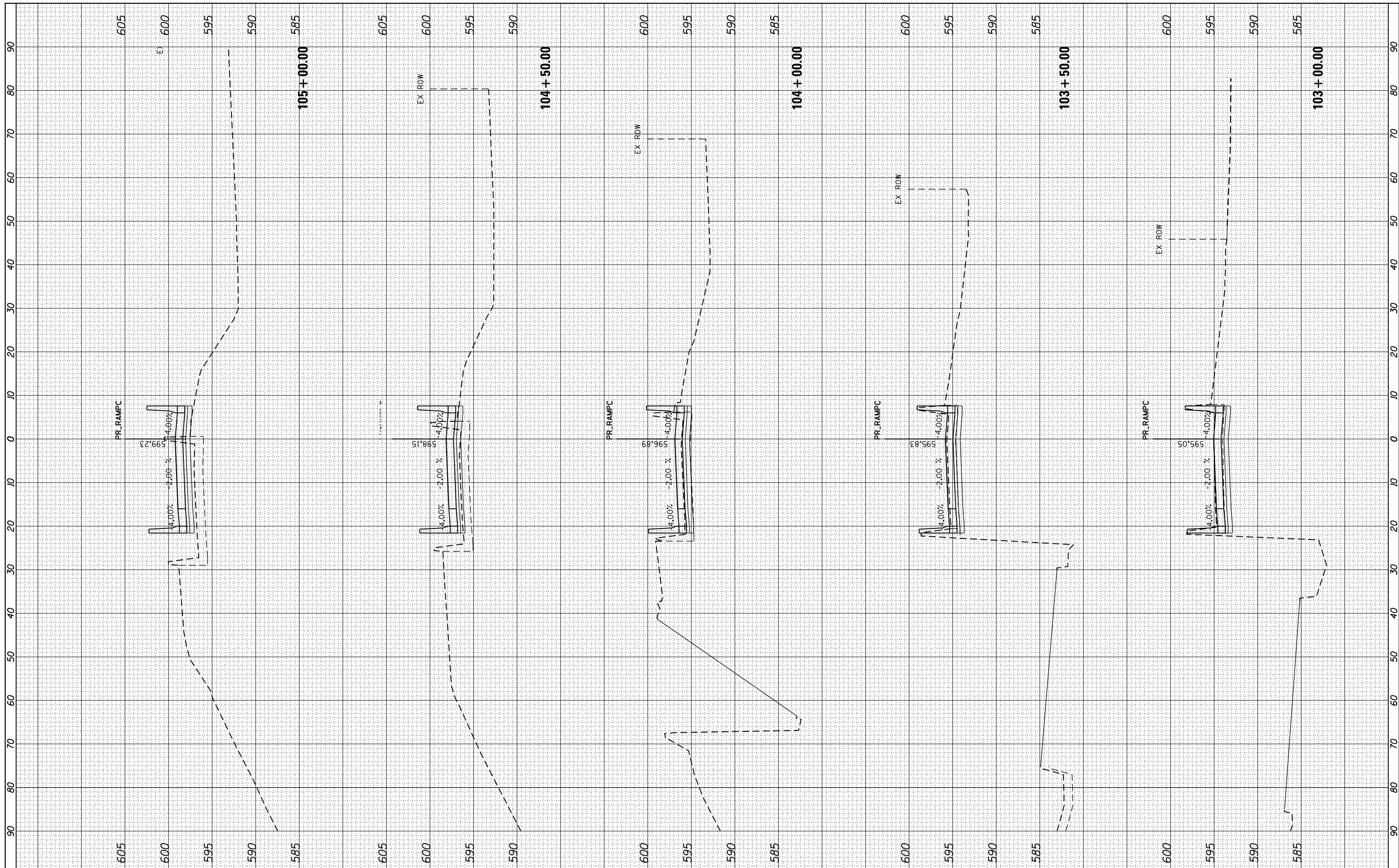
SCALE: SHEET OF SHEETS STA. 319+00.00 TO STA. 320+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	356
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				



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

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



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

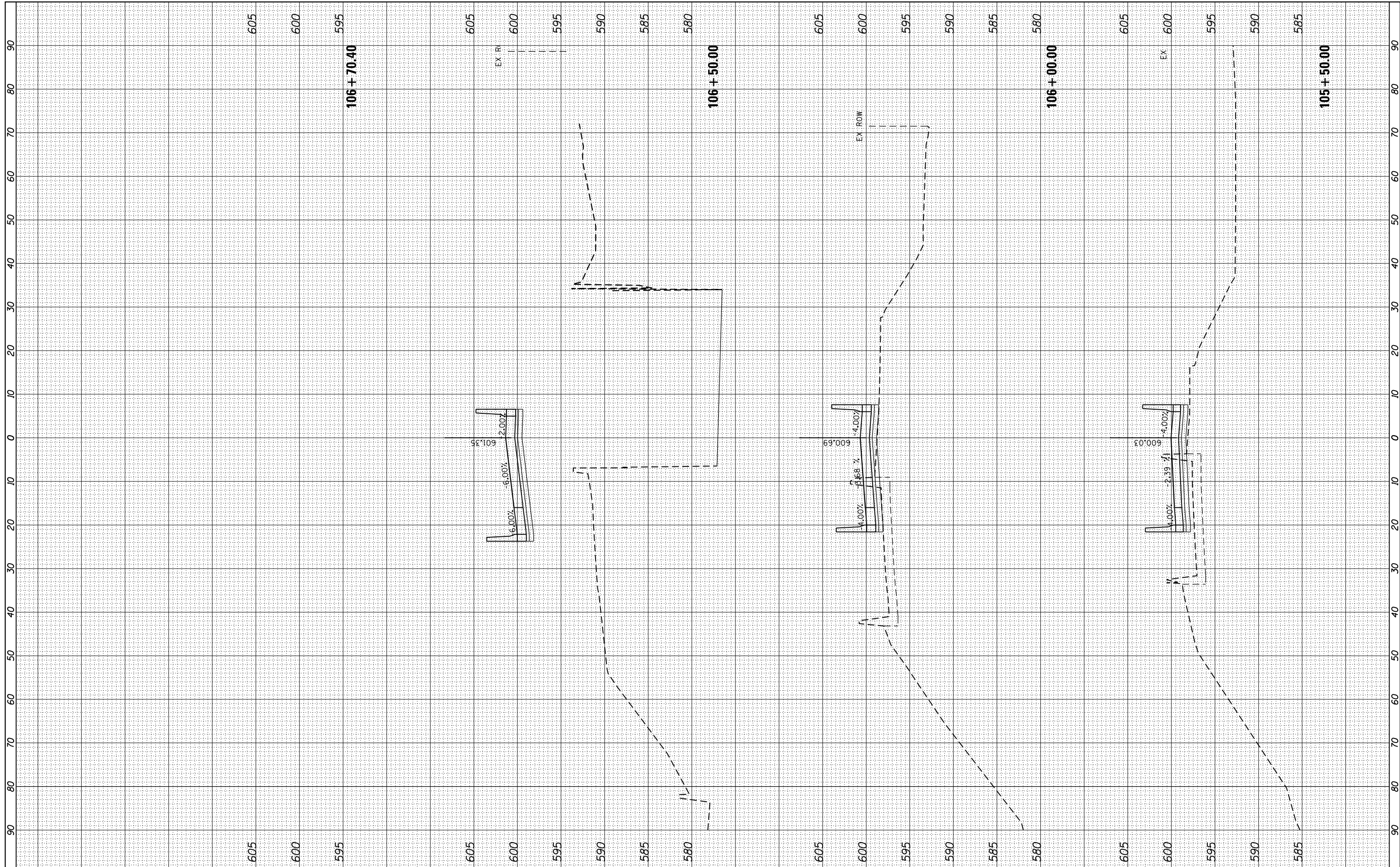
**RAMP C  
 PROPOSED CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 103+00.00 TO STA. 105+00.00

F.A. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 357
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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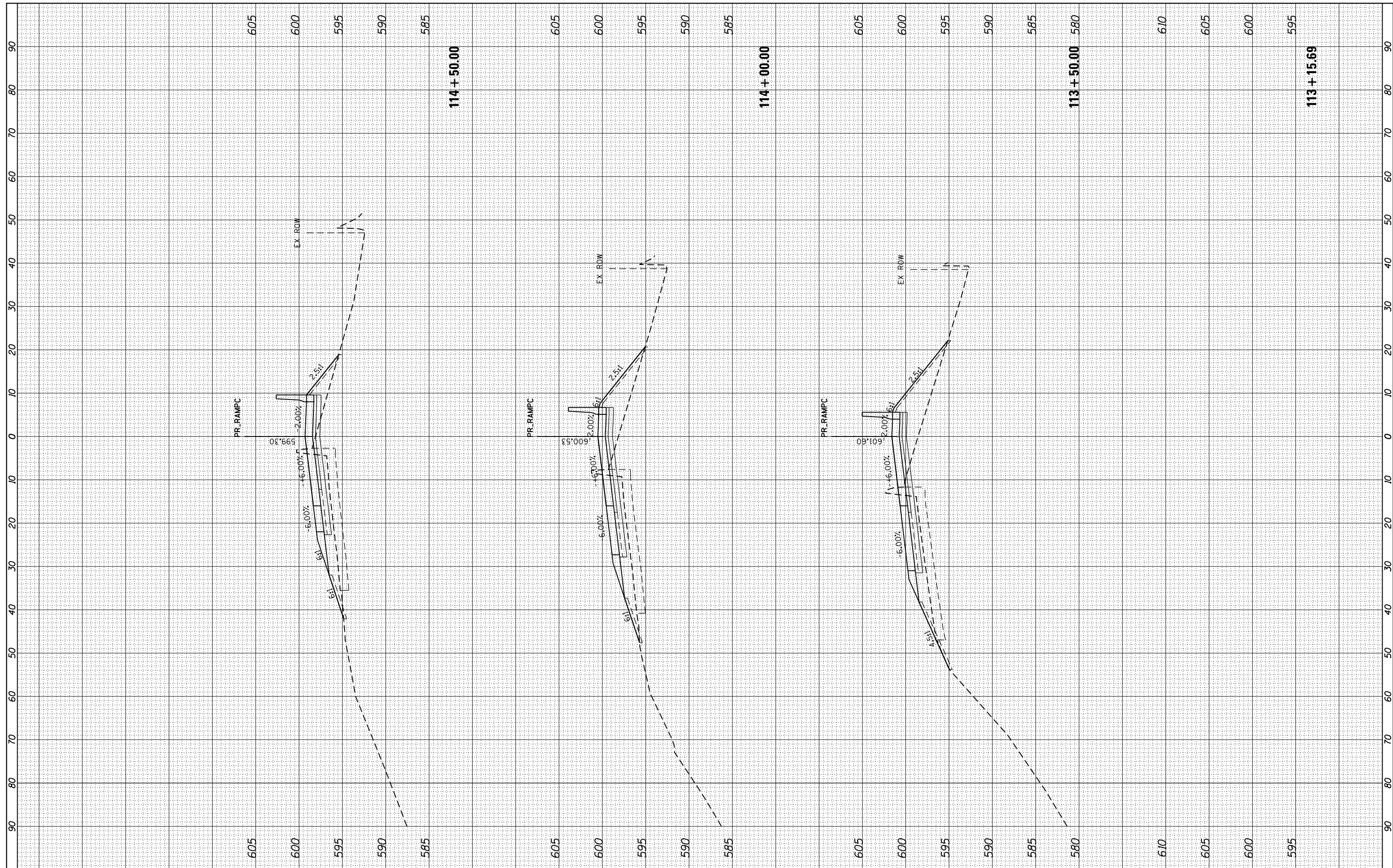
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RAMP C  
PROPOSED CROSS SECTIONS  
SCALE: SHEET OF SHEETS STA. 105+50.00 TO STA. 106+70.40

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0303-474HB-R		368	358
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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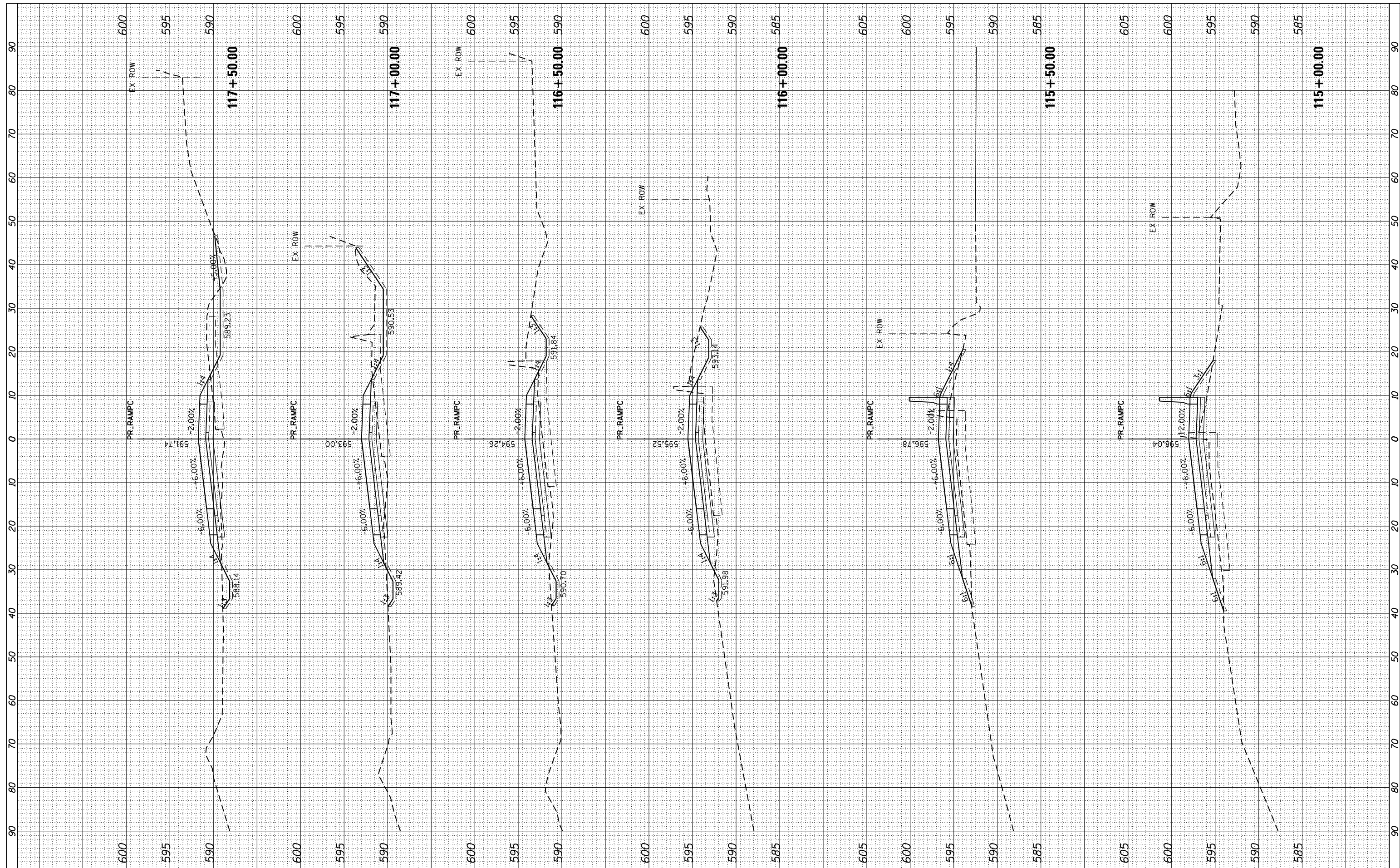
SCALE: SHEET OF SHEETS STA. 113+15.69 TO STA. 114+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	359
CONTRACT NO. 60F63				

ILLINOIS FED. AID PROJECT

BY	DATE

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS
	CHECKED



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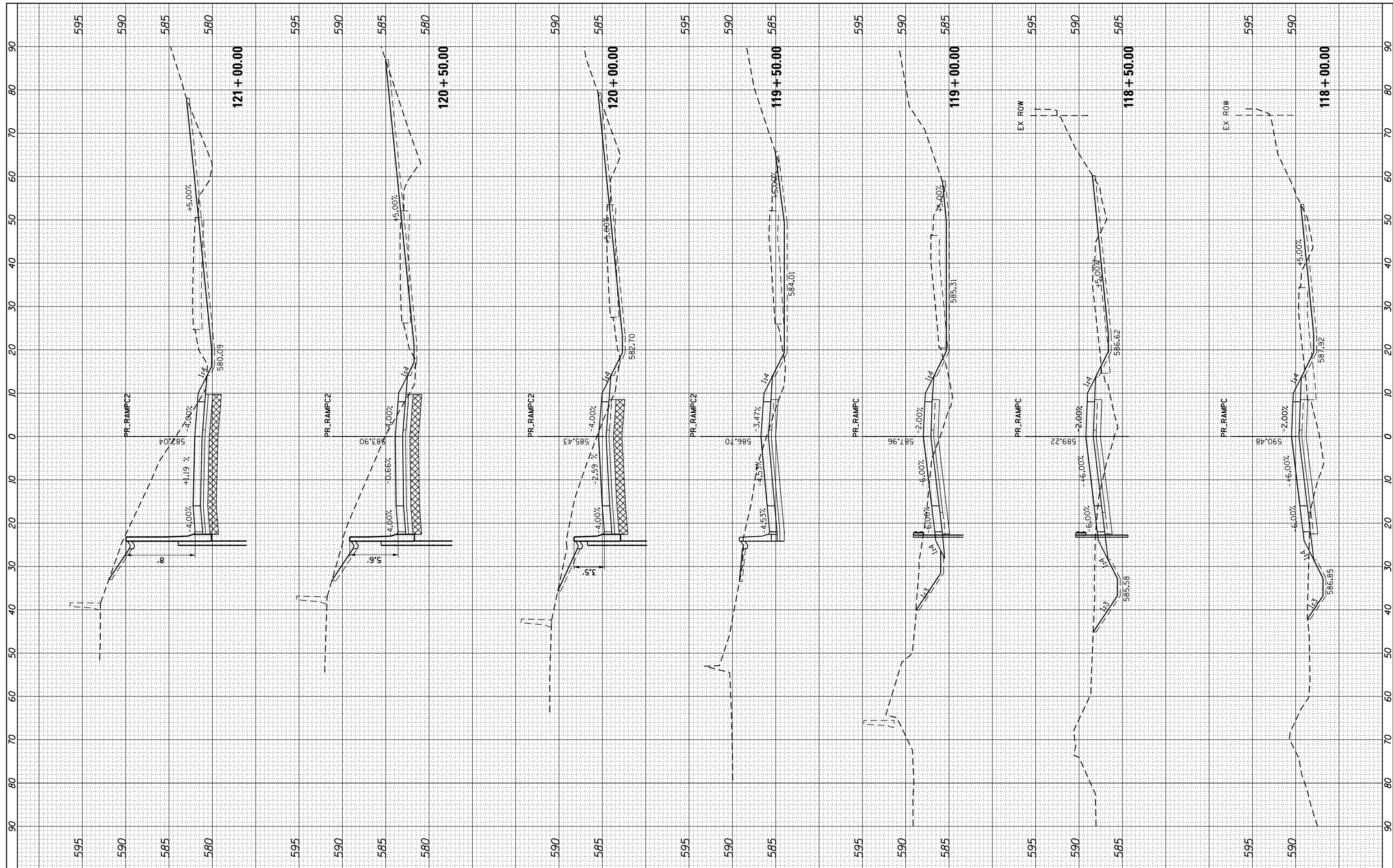
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RAMP C  
 PROPOSED CROSS SECTIONS**  
 SCALE: SHEET OF SHEETS STA. 115+00.00 TO STA. 117+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	360
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

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

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



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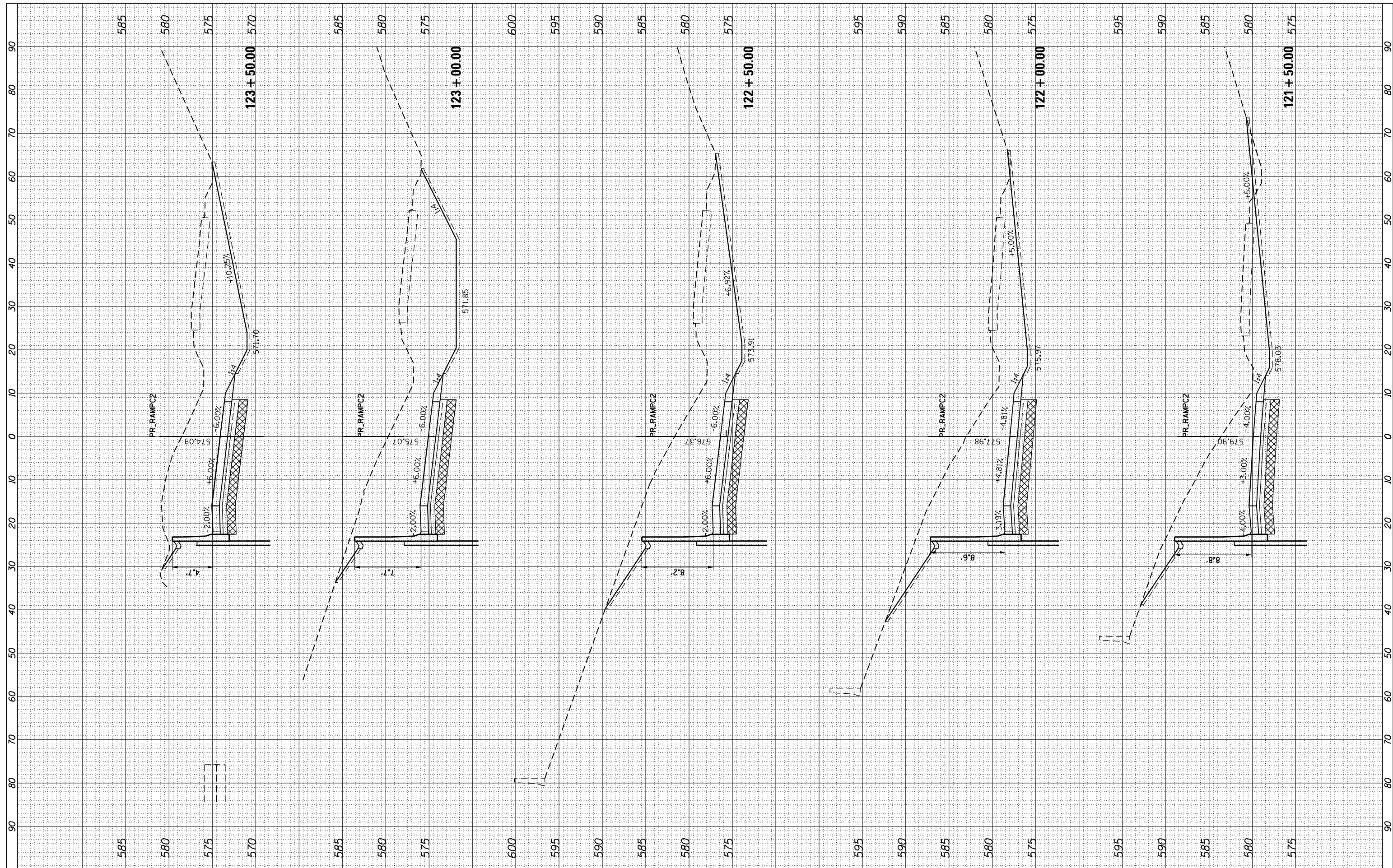
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RAMP C  
 PROPOSED CROSS SECTIONS**  
 SCALE: SHEET OF SHEETS STA. 118+00.00 TO STA. 121+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	361
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

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

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



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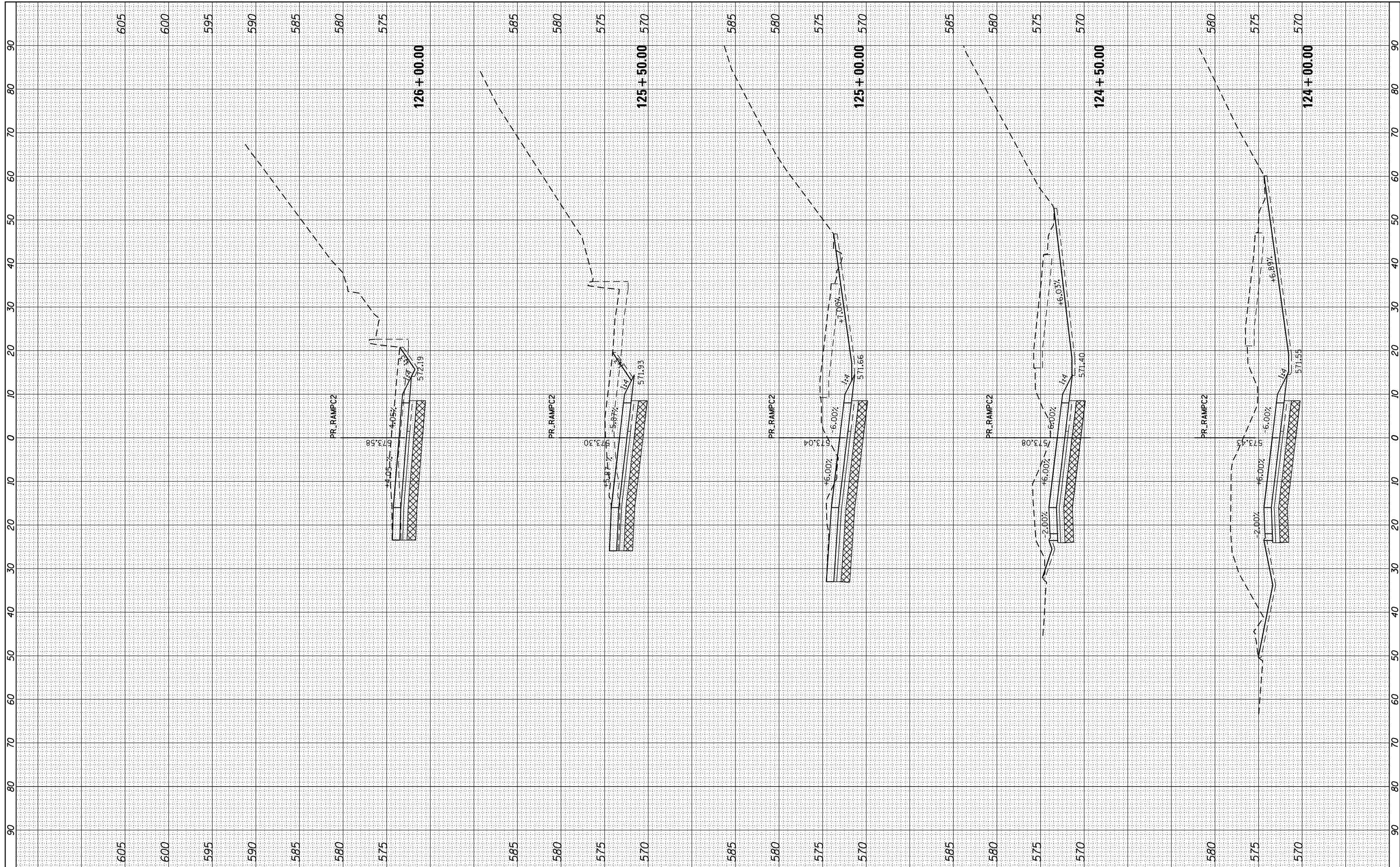
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RAMP C  
 PROPOSED CROSS SECTIONS**  
 SCALE: SHEET OF SHEETS STA. 121+50.00 TO STA. 123+50.00

F.A. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 362
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



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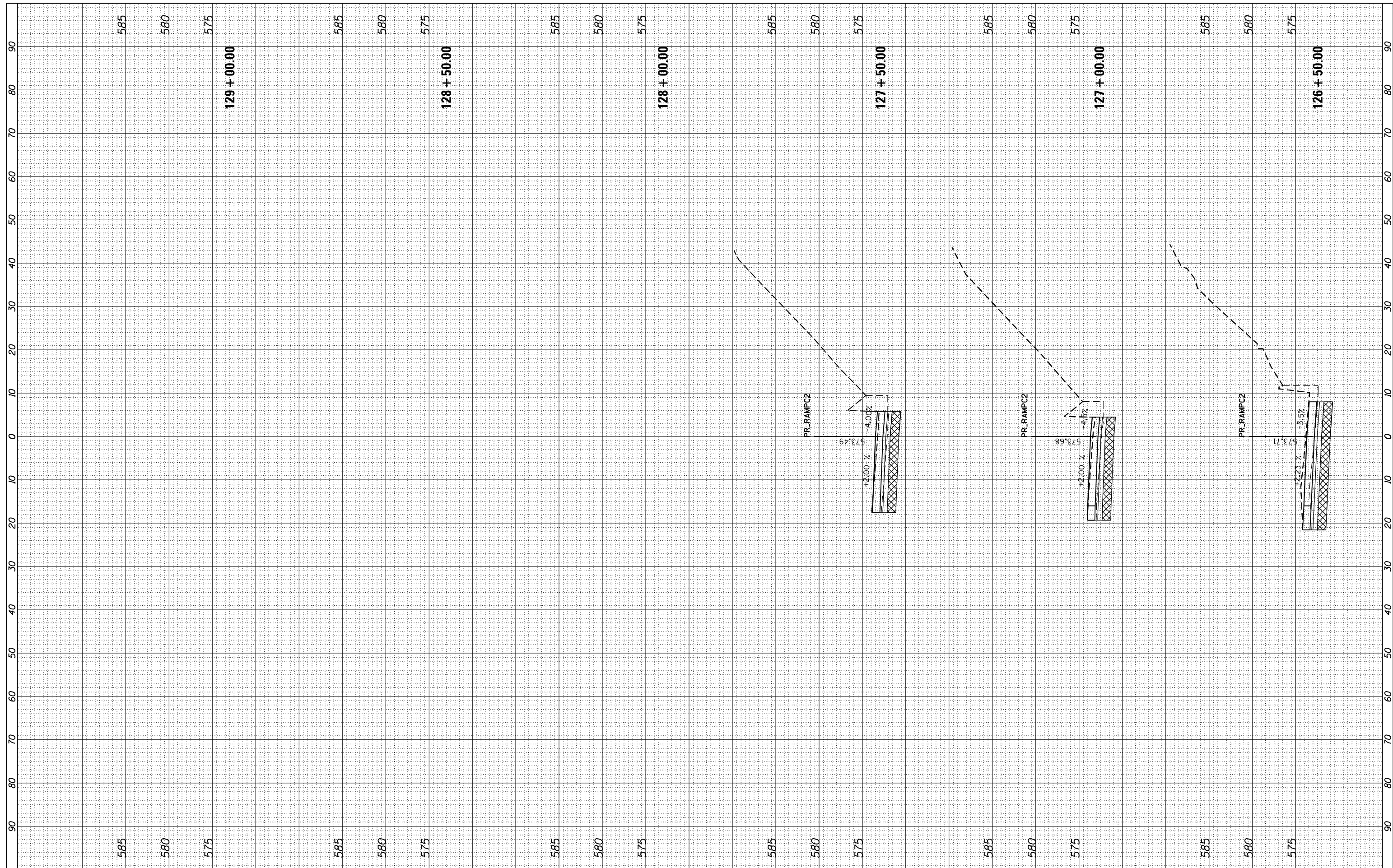
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RAMP C  
 PROPOSED CROSS SECTIONS**  
 SCALE: SHEET OF SHEETS STA. 124+00.00 TO STA. 126+00.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	363
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

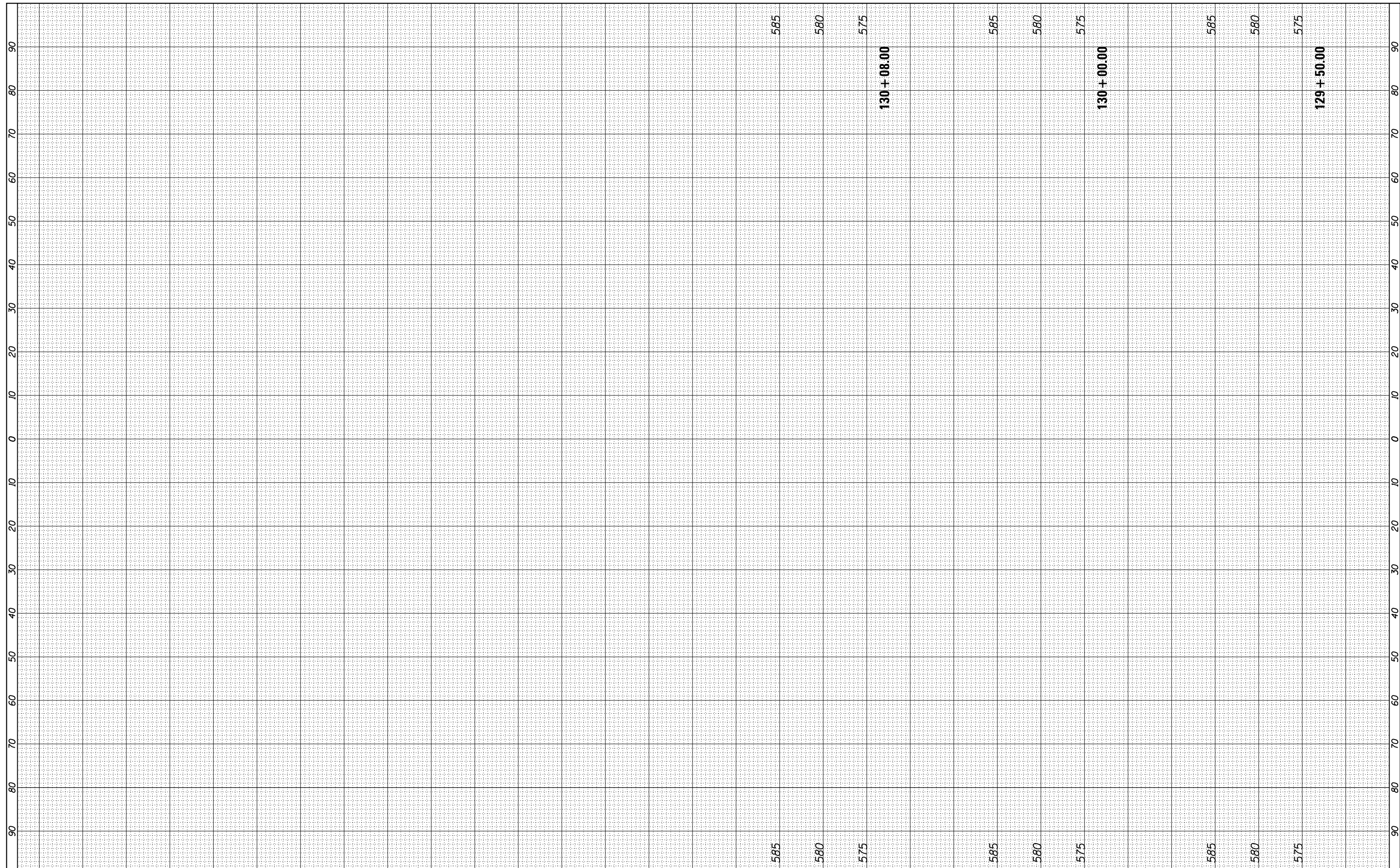
**RAMP C  
 PROPOSED CROSS SECTIONS**  
 SCALE: SHEET OF SHEETS STA. 126+50.00 TO STA. 129+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	364
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



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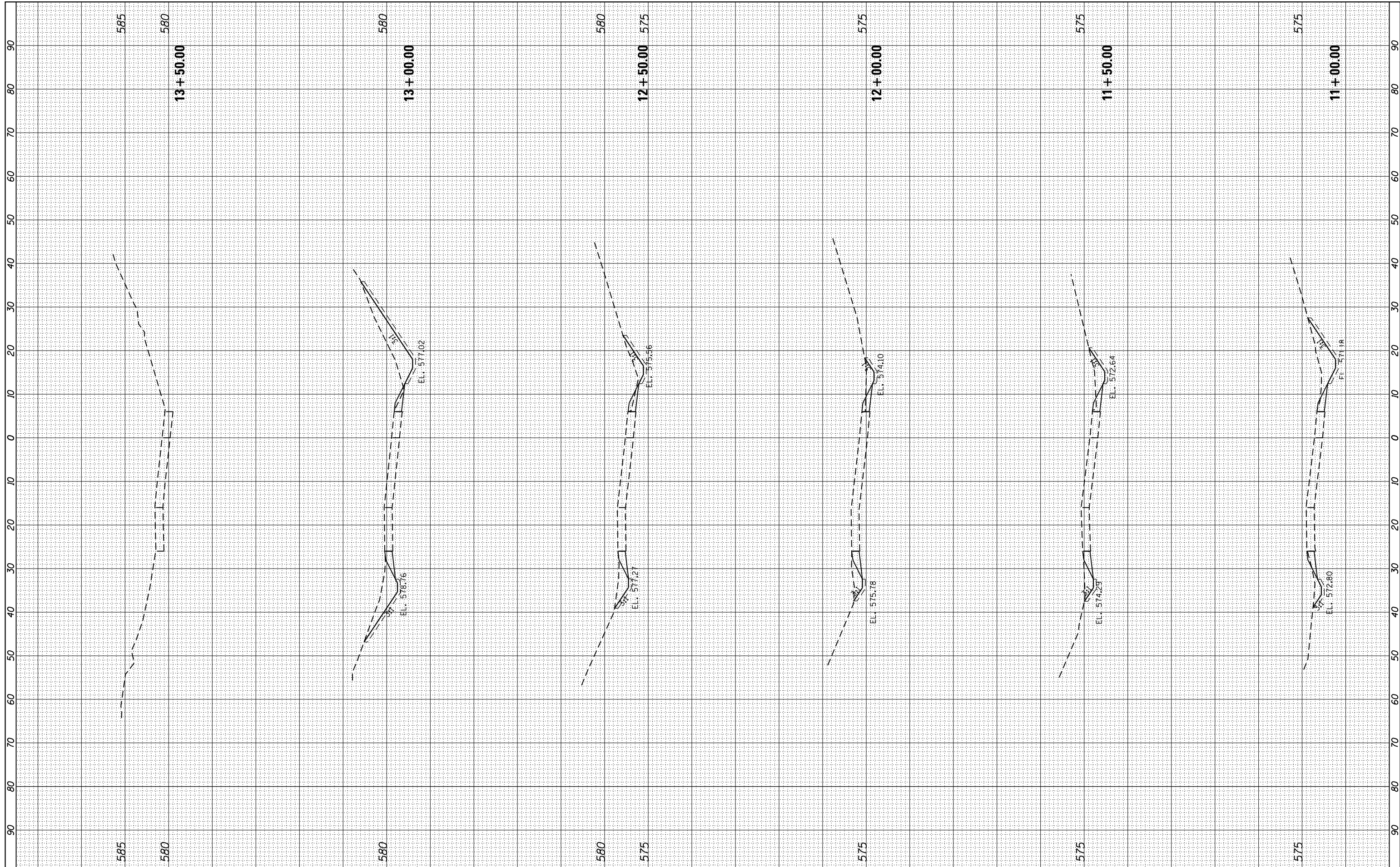
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>RAMP C PROPOSED CROSS SECTIONS</b>			
SCALE:	SHEET	OF	SHEETS
			STA. 129+50.00 TO STA. 130+08.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	365
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

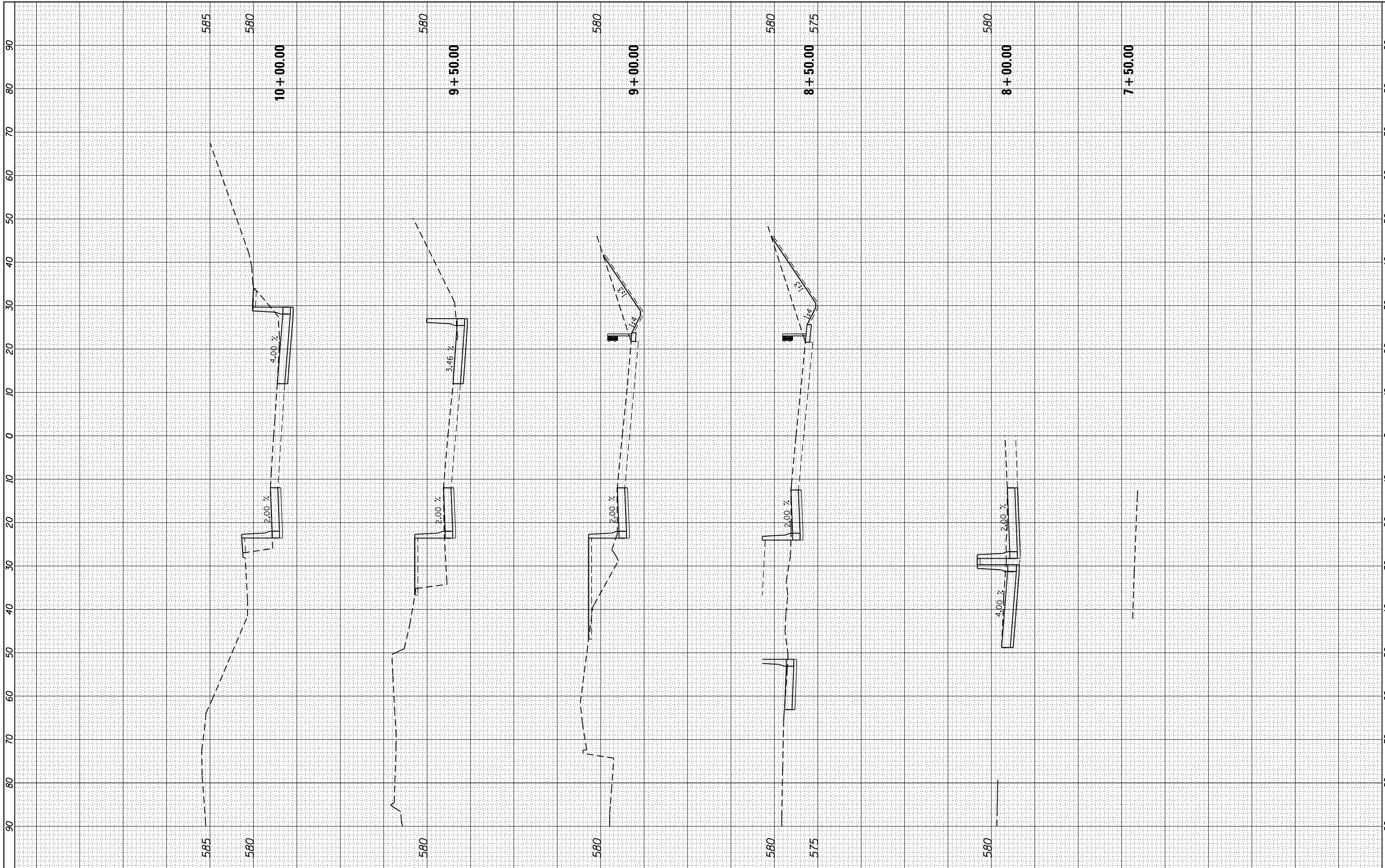
**RAMP B  
PROPOSED CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 11+00.00 TO STA. 13+50.00

F.A. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 366
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME =  
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PLOT DATE = 3/25/2013	CHECKED -	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RAMP D  
 PROPOSED CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 7+50.00 TO STA. 10+00.00

F.A. RTE. 90/94	SECTION 003-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 367
CONTRACT NO. 60F63				
ILLINOIS FED. AID PROJECT				

