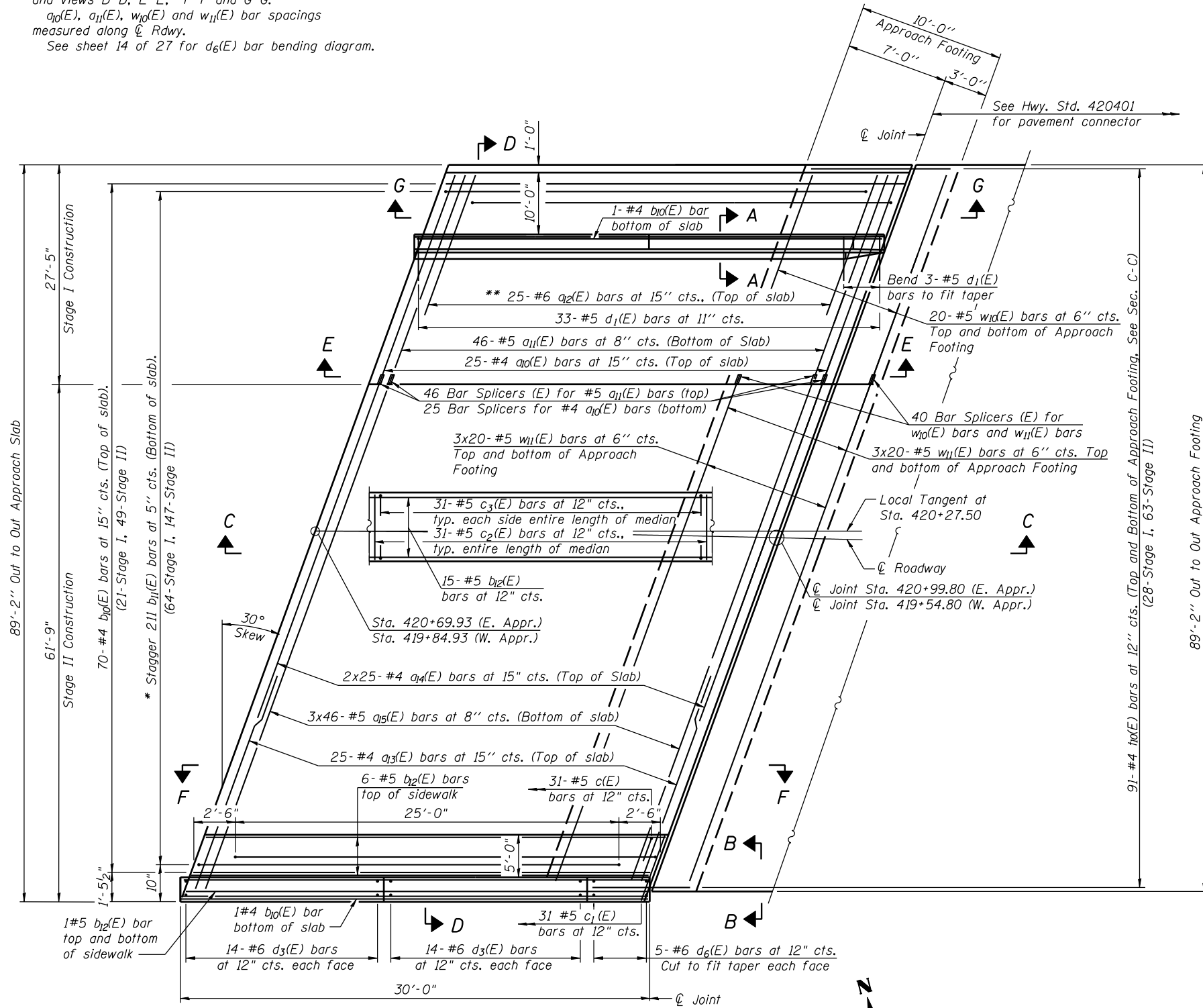


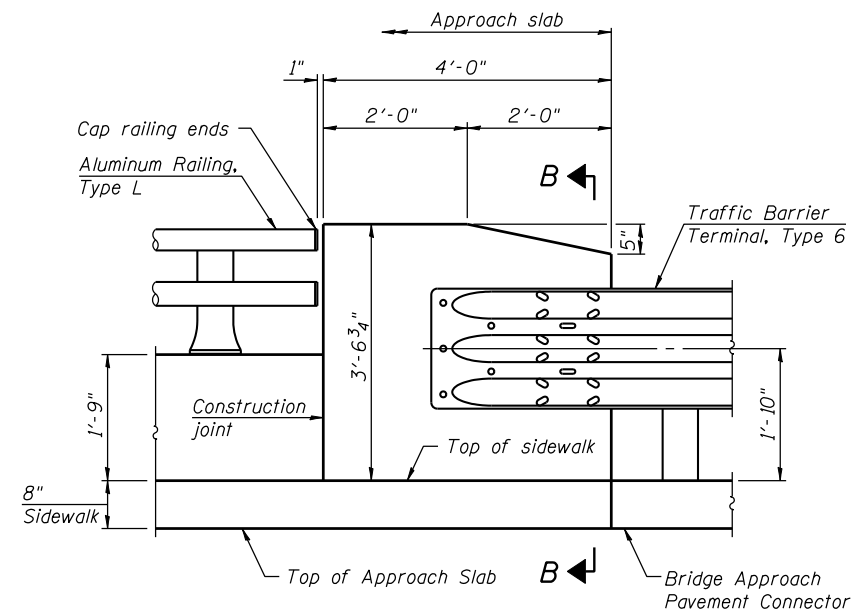
Notes:
 See sheet 14 of 27 for Sections C-C, D-D and Views D-D, E-E, F-F and G-G.
 $a_{1d}(E)$, $a_{1l}(E)$, $w_{1d}(E)$ and $w_{1l}(E)$ bar spacings measured along \hat{C} Rdwy.
 See sheet 14 of 27 for $d_6(E)$ bar bending diagram.



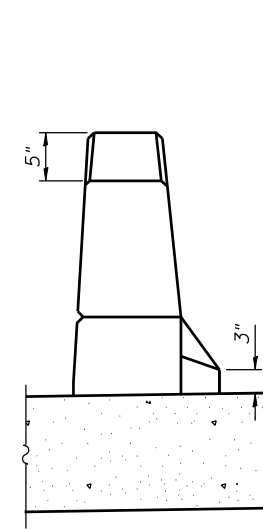
PLAN

East approach slab shown (West approach slab similar).
 Bicycle Railing, Parapet Railing, and Aluminum Railing, Type L not shown for clarity. See sheet 14 of 27 for Bridge Approach Slab Rail Post Spacing.
 * Tilt #9 $b_{1l}(E)$ bars as required to maintain clearance.
 ** Space between $a_{1d}(E)$ bars.

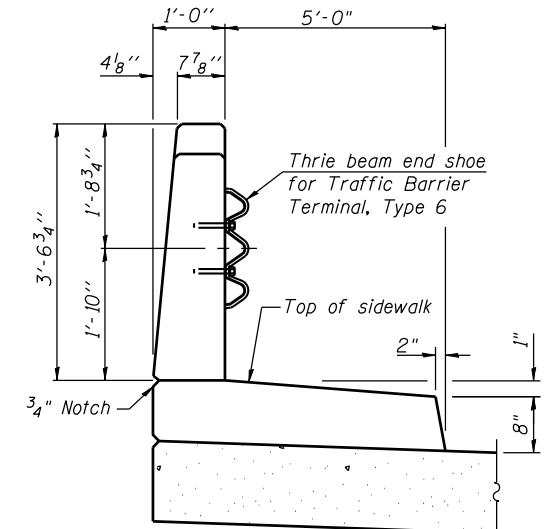
MIN. BAR LAP
 #5 bar = 3'-3"



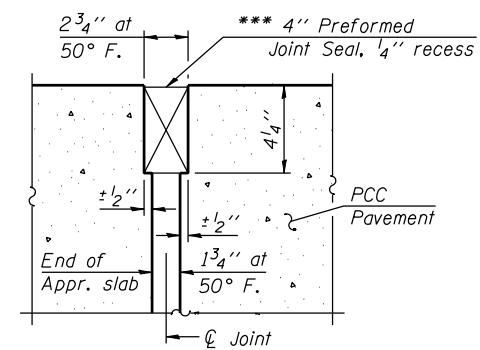
END BLOCK DETAIL



VIEW A-A



VIEW B-B



**RIGID PAVEMENT
 DETAIL A**

*** Cost included with Concrete Superstructure.

FILE NAME = s:\p1\6380--6395\6346\023\micro\sh\str_plans\0470301-60132-008-BAP.dgn

STRAND
 ASSOCIATES, INC.
 ENGINEERS
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200
 IDFPN NO. 184-001273

USER NAME = briantf
 DESIGNED KDH
 CHECKED AJS
 DRAWN BJF
 CHECKED KDH
 PLOT SCALE =
 PLOT DATE = 5/1/2012

DESIGNED KDH
 CHECKED AJS
 DRAWN BJF
 CHECKED KDH

REVISED -
 REVISED -
 REVISED -
 REVISED -

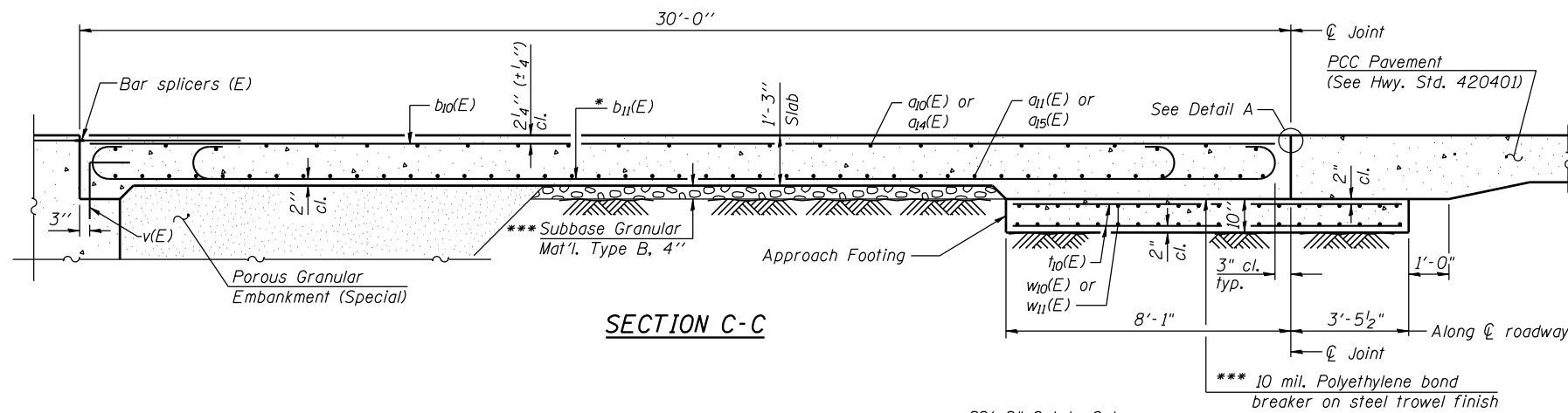
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS (1 OF 2)
 STRUCTURE NO. 047-0301**

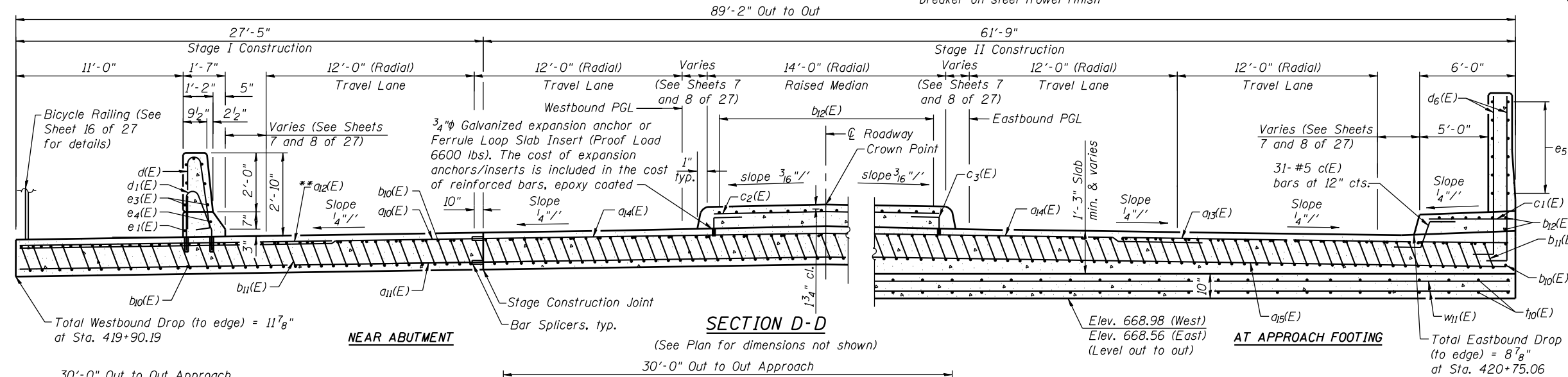
SHEET NO. 13 OF 27 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	301
CONTRACT NO. 60132				

ILLINOIS FED. AID PROJECT



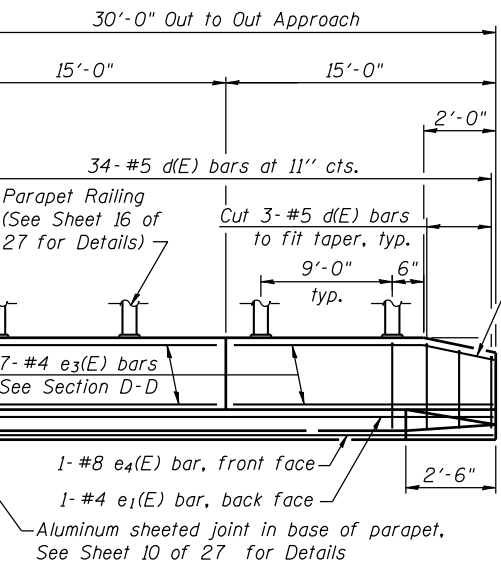
Notes:
 See sheet 13 of 27 for Detail A and View B-B.
 Approach Slab, Parapets, Median, and Sidewalk Concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet 10 of 27.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 For bar splicer details, see sheet 24 of 27.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 27.
 End Block reinforcement shown in Section D-D. See Section Thru Approach Sidewalk Parapet for sidewalk parapet reinforcement.
 See sheets 10 and 11 of 27 for c(E), c3(E), d(E), d1(E), d3(E), and d4(E) bar bending diagrams.
 * Tilt #9 b1(E) bars as required to maintain clearance.
 ** Alternate with a0(E) bars.
 *** Cost included with Concrete Superstructure.



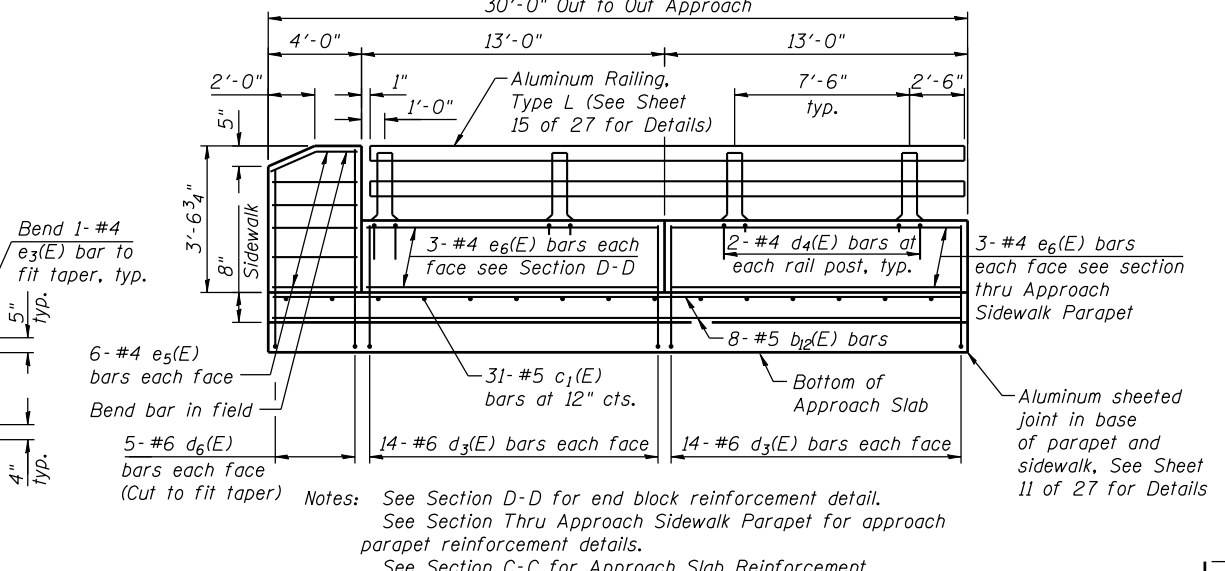
MIN. BAR LAP
 #4 bar = 2'-4"

TWO APPROACHES
BILL OF MATERIAL

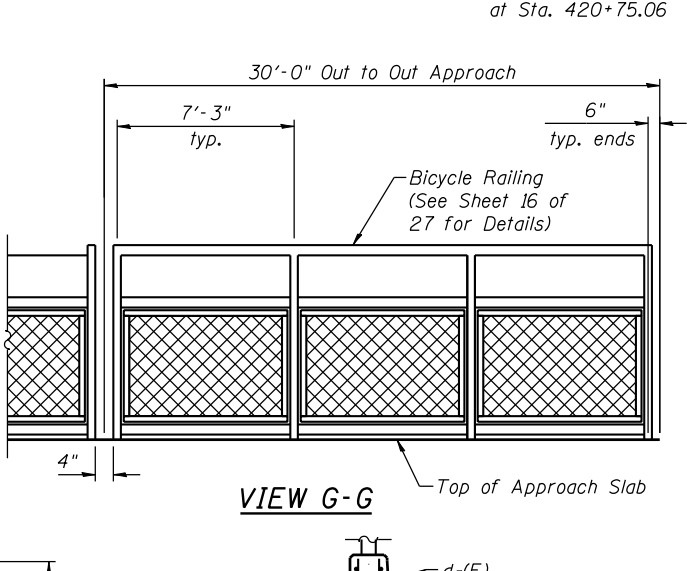
Bar	No.	Size	Length	Shape	
a10(E)	50	#4	31'-8"	—	
a11(E)	92	#5	31'-3"	—	
a12(E)	50	#6	20'-1"	—	
a13(E)	50	#4	25'-8"	—	
a14(E)	100	#4	25'-0"	—	
a15(E)	276	#5	25'-3"	—	
b10(E)	144	#4	29'-8"	—	
b11(E)	422	#9	29'-9"	—	
b12(E)	46	#5	29'-8"	—	
c(E)	62	#5	2'-4"	—	
c1(E)	62	#5	5'-8"	—	
c2(E)	62	#5	13'-8"	—	
c3(E)	124	#5	1'-3"	—	
d(E)	68	#5	5'-7"	—	
d1(E)	68	#5	4'-8"	—	
d3(E)	112	#6	3'-9"	—	
d4(E)	16	#4	2'-0"	—	
d6(E)	20	#6	5'-9"	—	
e1(E)	2	#4	29'-8"	—	
e3(E)	28	#4	14'-7"	—	
e4(E)	2	#8	29'-8"	—	
e5(E)	24	#4	3'-8"	—	
e6(E)	24	#4	12'-8"	—	
t10(E)	364	#4	11'-3"	—	
w10(E)	80	#5	30'-6"	—	
w11(E)	240	#5	25'-2"	—	
Concrete Superstructure				Cu. Yd.	311
Concrete Structures				Cu. Yd.	64
Reinforcement Bars, Epoxy Coated				Pound	66,160
Reinforcement Bars, Epoxy Coated				Pound	11,590



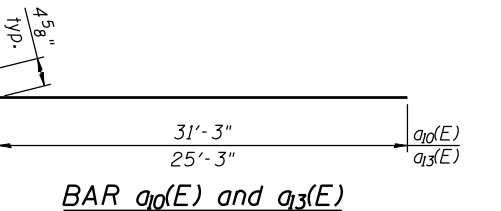
VIEW E-E



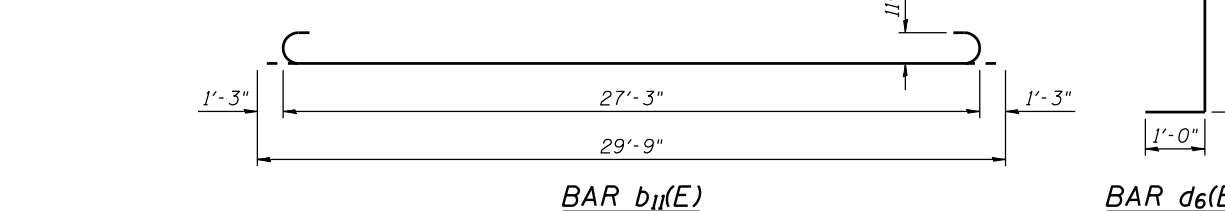
VIEW F-F



VIEW G-G

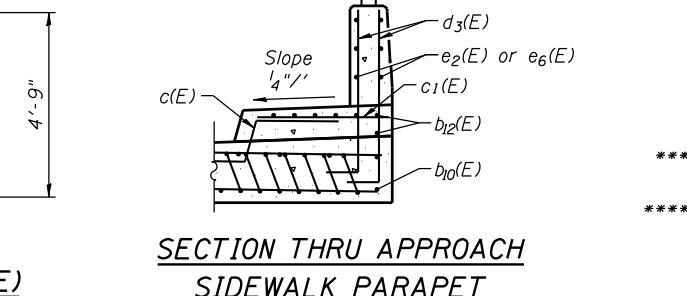


BAR a10(E) and a13(E)



BAR b11(E)

BAR d6(E)



SECTION THRU APPROACH SIDEWALK PARAPET

FILE NAME = s:\p1\6380--6395\6346\023\micro\sh\st\p1\6380-6395-023-008-BAP.dgn

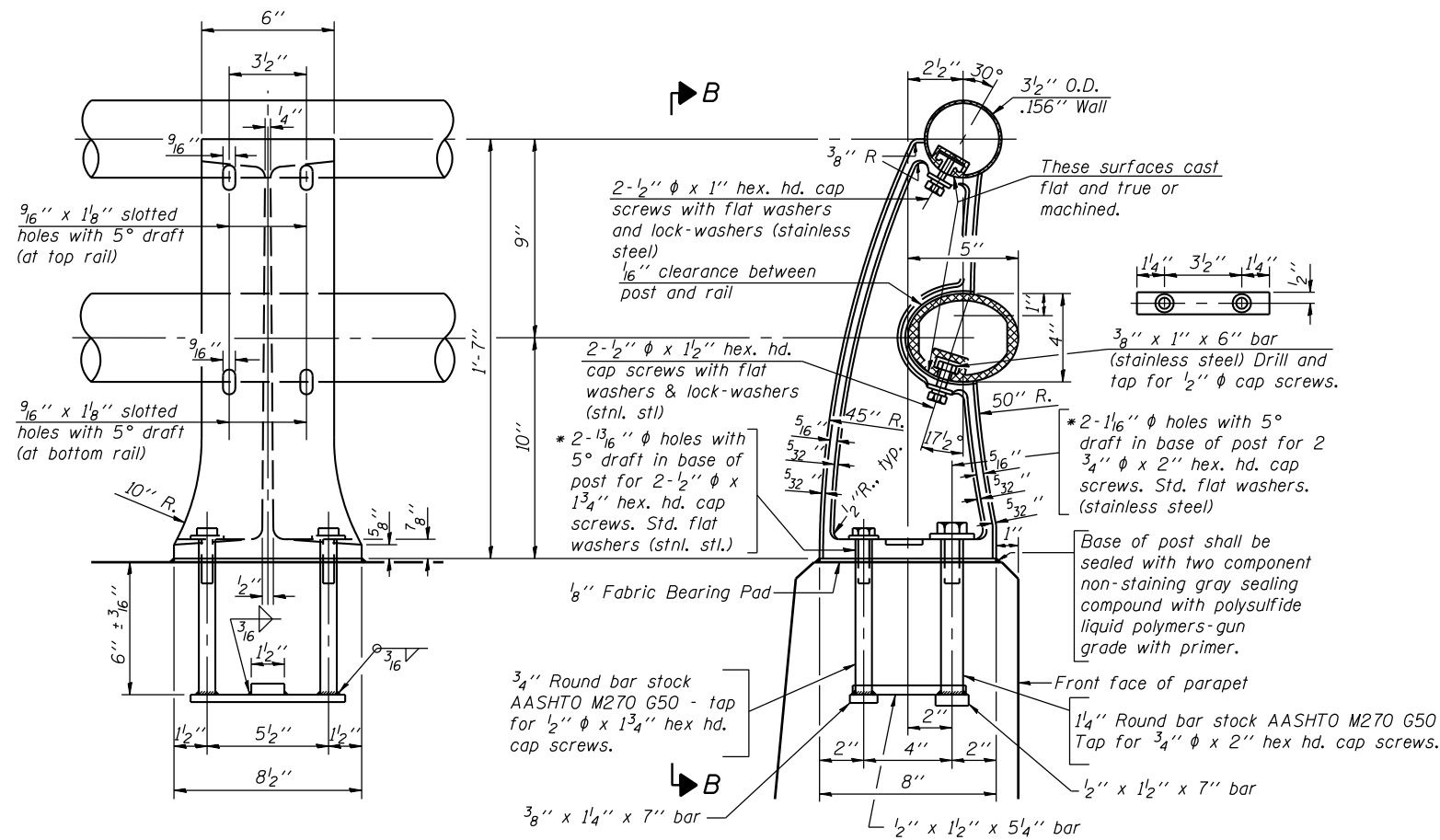


USER NAME = brianf	DESIGNED KDH	REVISED -
PLOT SCALE =	CHECKED AJS	REVISED -
PLOT DATE = 5/1/2012	DRAWN BJF	REVISED -
	CHECKED KDH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS (2 OF 2)
STRUCTURE NO. 047-0301
 SHEET NO. 14 OF 27 SHEETS

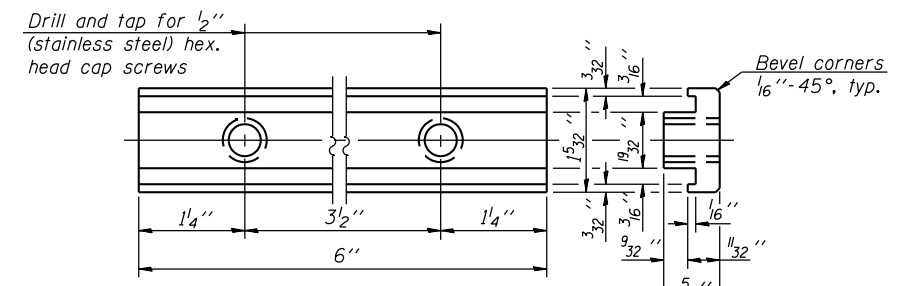
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	302
				CONTRACT NO. 60132
ILLINOIS FED. AID PROJECT				



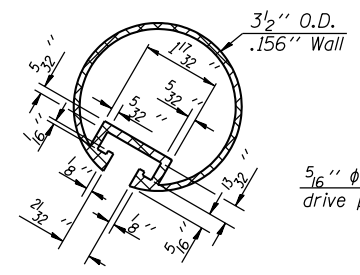
* In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

VIEW B-B
RAIL POST DETAILS

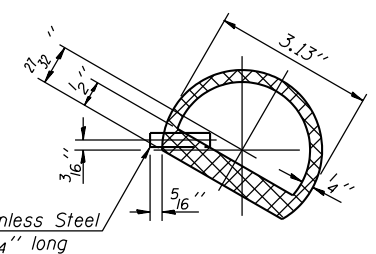
SECTION A-A



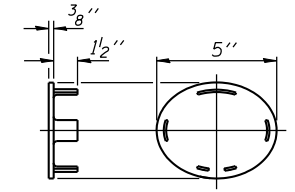
RAIL POST CLAMP BAR
For Top Rail



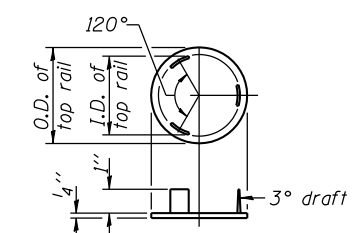
SECTION THRU TOP RAIL



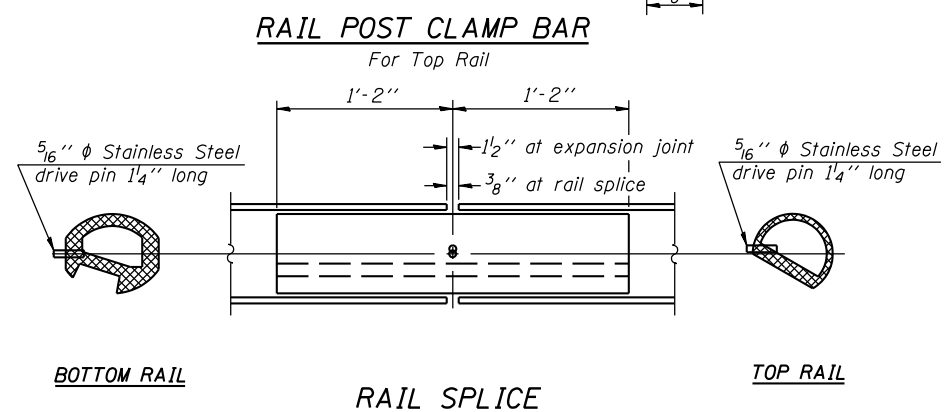
SECTION THRU SPLICE
For Top Rail



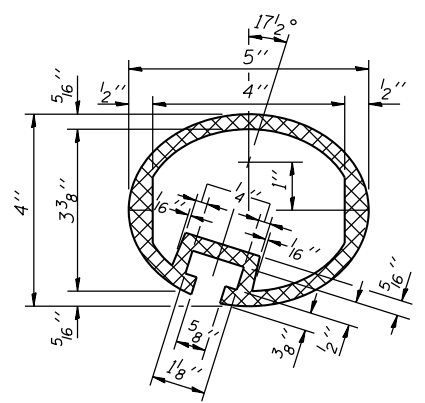
CAST END CAP
For bottom rail
DRIVE FIT TYPE



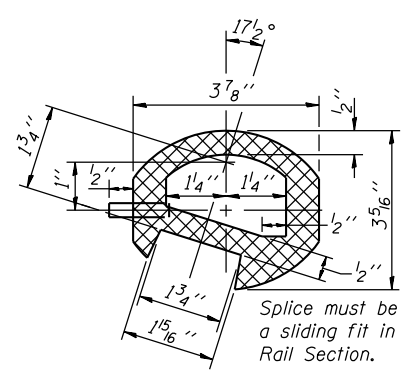
CAST END CAP
For top rail



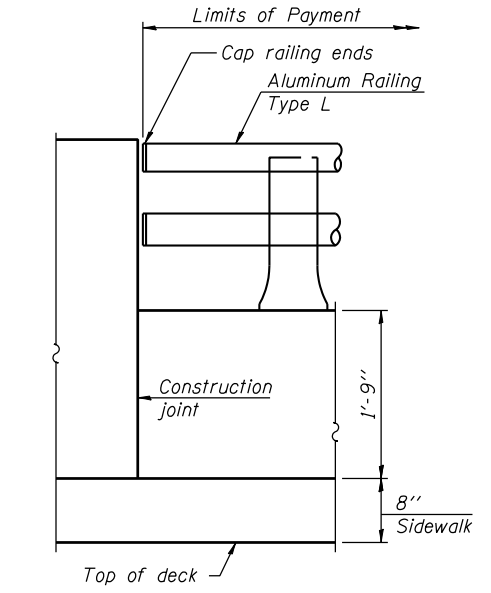
RAIL SPLICE



SEC. THRU ELLIPTICAL
RAIL SECTION



SEC. THRU SPLICE



RAIL END TREATMENT FOR
TYPE 5 AND 6 TERMINAL

BILL OF MATERIAL

Item	Unit	Quantity
Aluminum Railing, Type L	Foot	137

Notes:
All Posts shall be normal to parapet.
All joints in rail shall be spliced per detail.
All exposed rail ends shall be capped per detail.
Provide 1-1/8" and 2-1/16" Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade-high spots will be ground and low spots shimmed.
See sheet 11 and 14 of 27 for rail post spacing.

FILE NAME = s:\p1\6380--6395\6346\023\micro\sh\str.plans\0470301-60132-010-SDWL.dgn



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-00123

USER NAME = briantf
DESIGNED KDH
CHECKED AJS
DRAWN BJF
CHECKED KDH
PLOT SCALE =
PLOT DATE = 5/1/2012

REVISED -
REVISED -
REVISED -
REVISED -

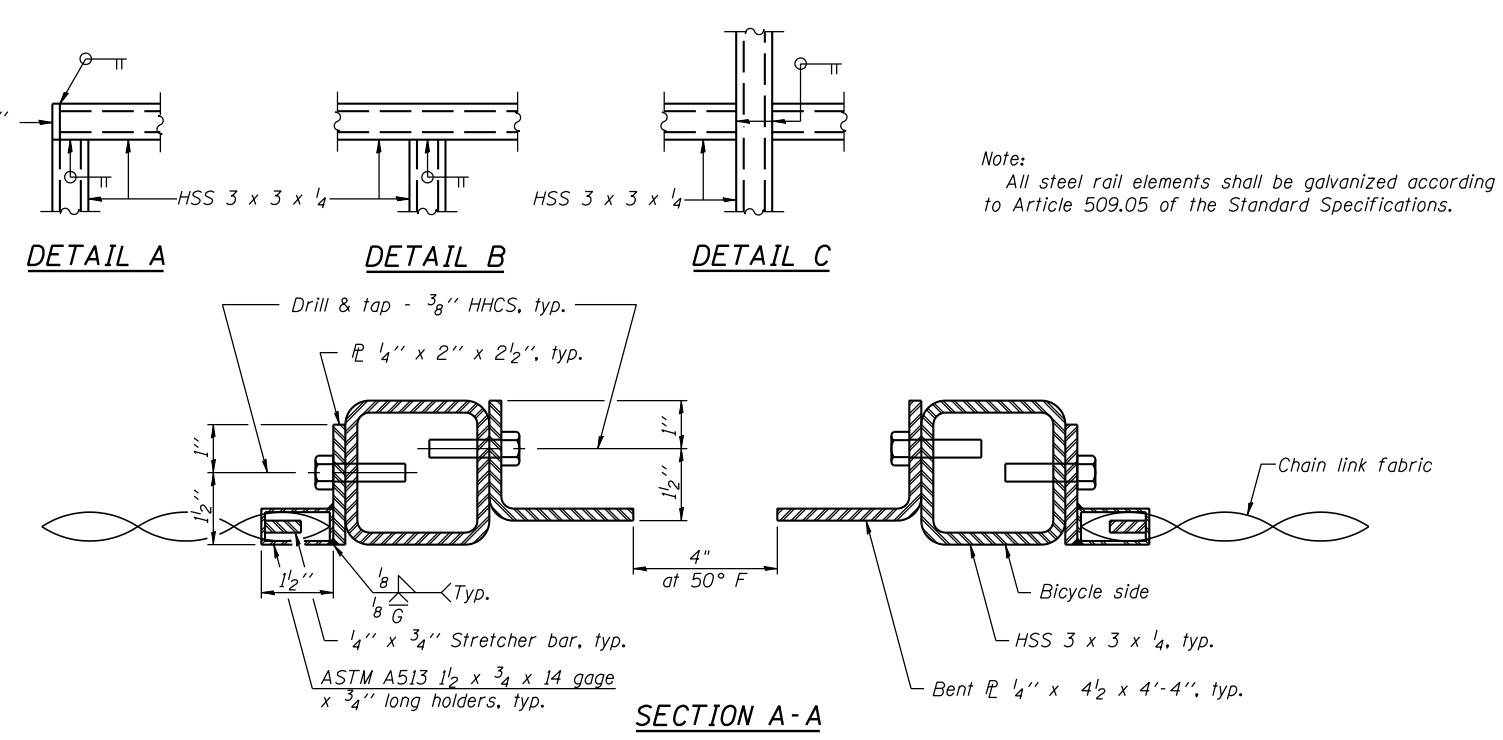
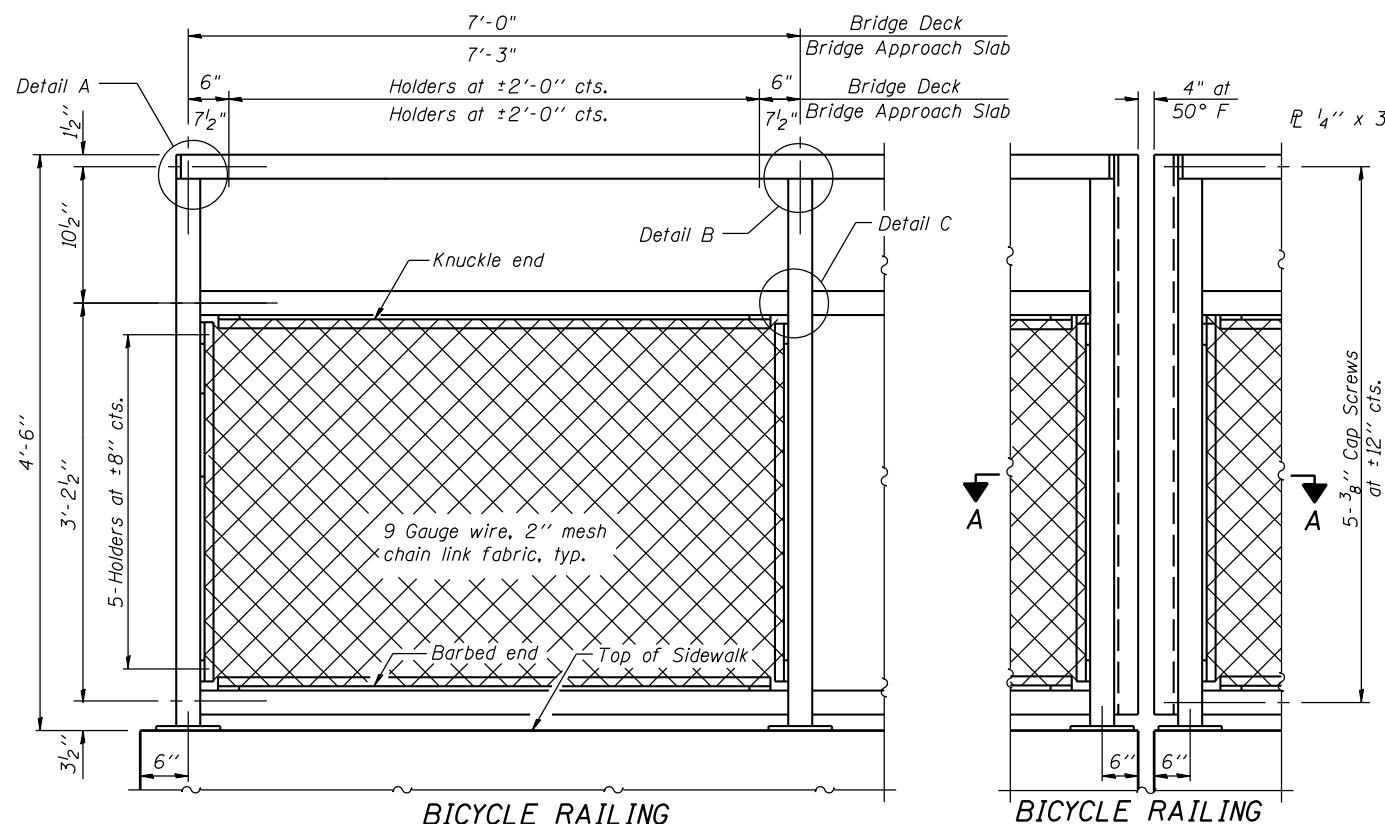
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALUMINUM RAILING, TYPE L
STRUCTURE NO. 047-0301

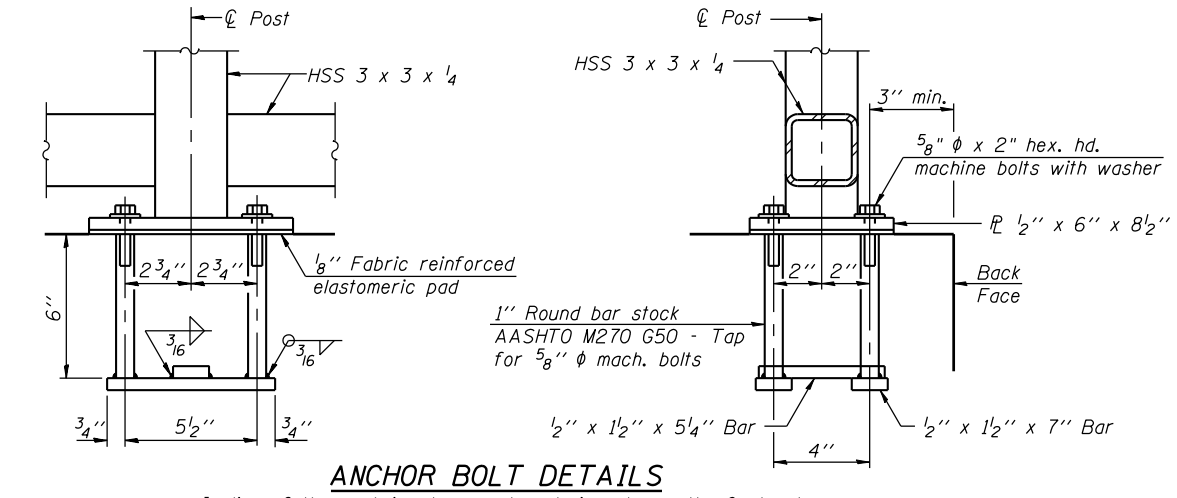
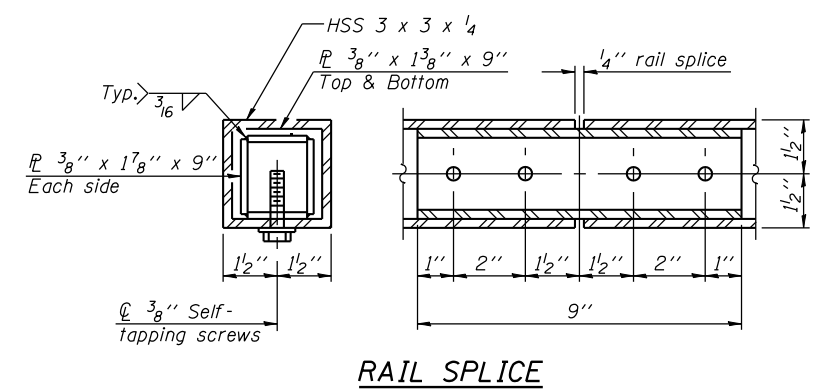
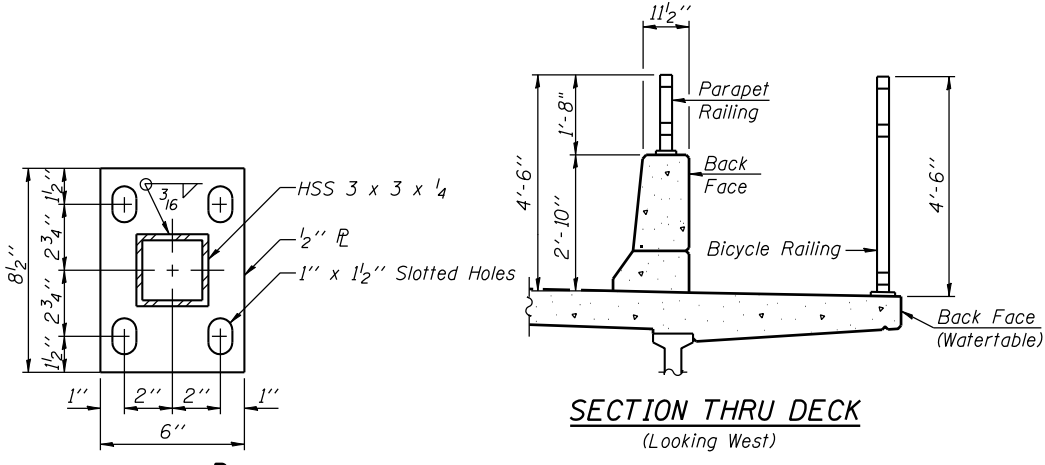
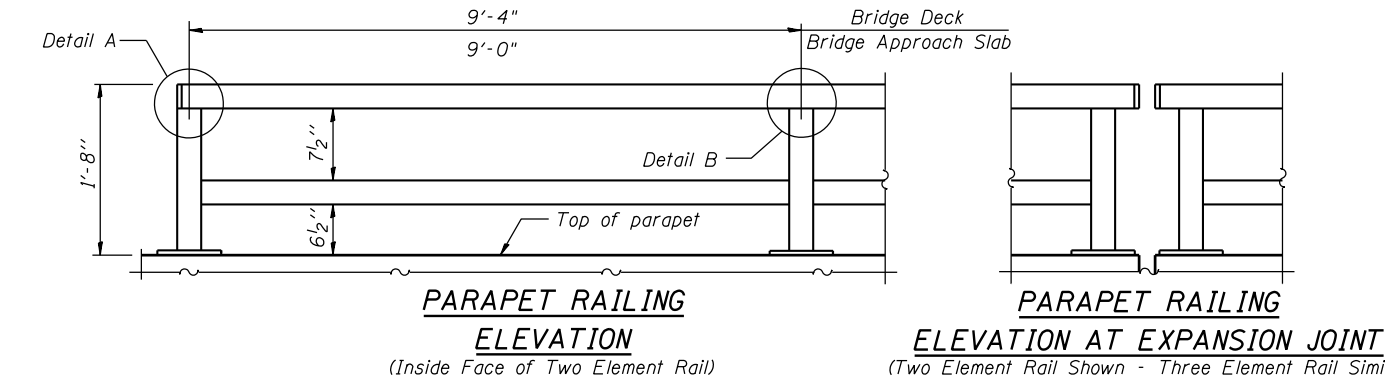
SHEET NO. 15 OF 27 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	303
CONTRACT NO. 60132				
ILLINOIS FED. AID PROJECT				

FILE NAME = s:\p1\6380--6395\6346\023\micro\sh\str_plans\0470301-60132-011-Rail.dgn



Note:
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

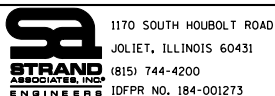


In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	145
Parapet Railing	Foot	140

R-29 7-1-10 (10'-0" Maximum Post Spacing)



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR No. 184-001273

USER NAME = briantf
DESIGNED KDH
CHECKED AJS
DRAWN BJF
CHECKED KDH
PLOT SCALE =
PLOT DATE = 5/1/2012

REVISED -
REVISED -
REVISED -
REVISED -

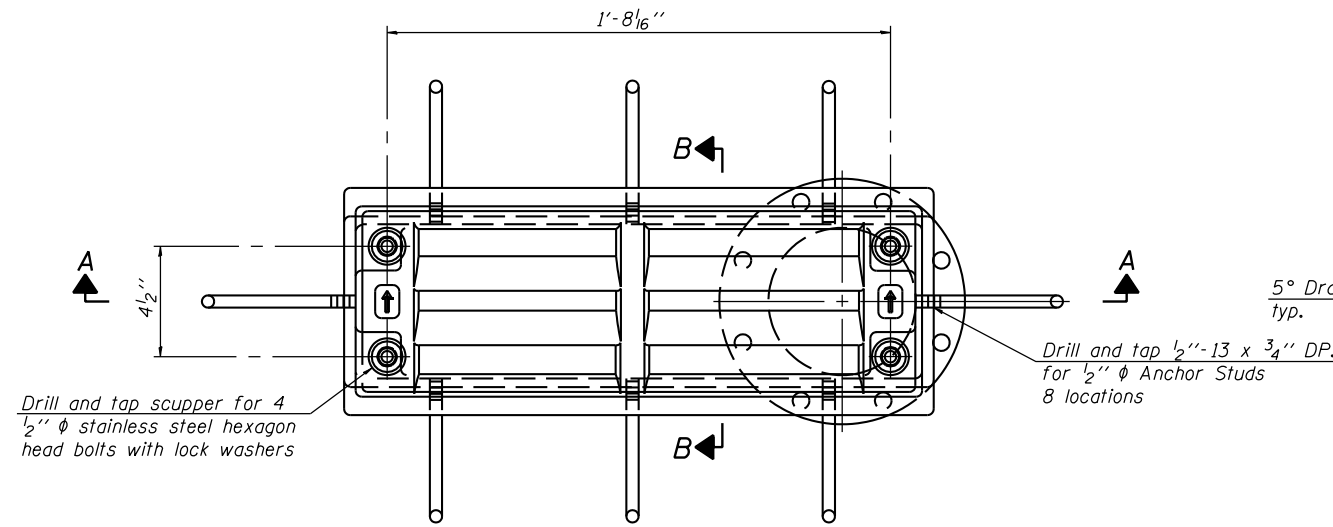
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BICYCLE RAILING
STRUCTURE NO. 047-0301**

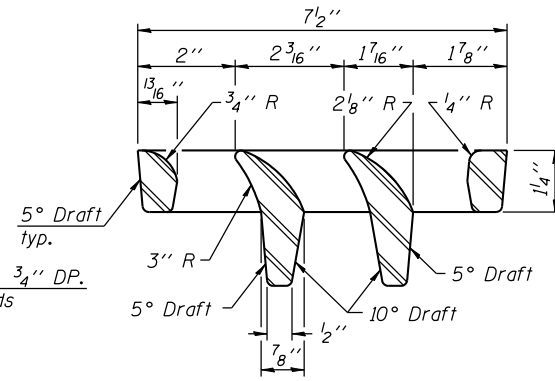
SHEET NO. 16 OF 27 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	304
CONTRACT NO. 60132				

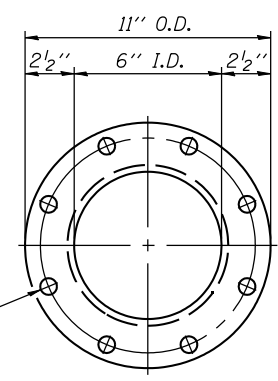
ILLINOIS FED. AID PROJECT



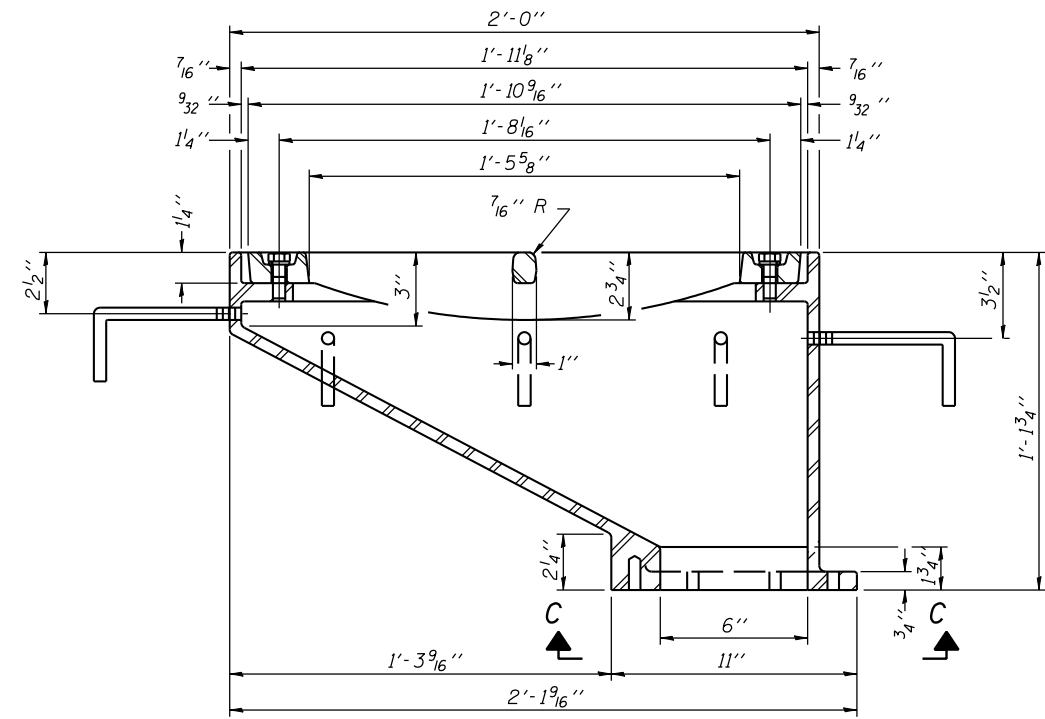
PLAN



VANE GRATE DETAIL

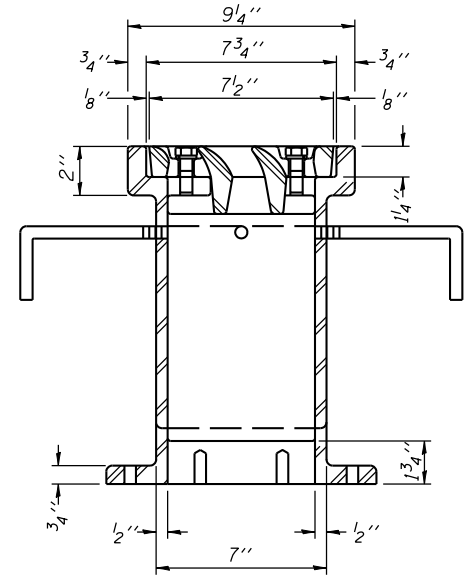


VIEW C-C

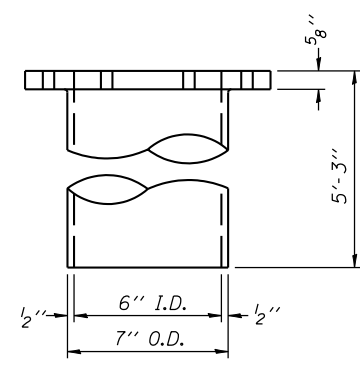


SECTION A-A

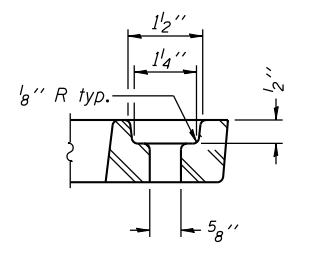
See sheets 10 and 11 of 27 for scupper location relative to parapet.



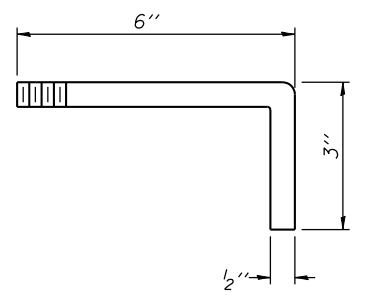
SECTION B-B



DOWNSPOUT



BOLT HOLE DETAIL



ANCHOR STUD DETAIL

Drill and tap 8 holes for 1/2"-13 bolts on a 9 1/2" φ bolt circle. (2 blind holes are 1 1/4" deep, 6 thru holes)

Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-12.
 Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.
 Scuppers shall be located clear of all diaphragms.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12	Each	4

FILE NAME = s:\p1\6380--6395\6346\023\micro\sh\str.plans\0470301-60132-012-DRAIN.dgn

DS-12

7-1-10



1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200
 IDFPR NO. 184-001273

USER NAME = brianf
 DESIGNED KDH
 CHECKED AJS
 DRAWN BJF
 CHECKED KDH
 PLOT SCALE =
 PLOT DATE = 5/1/2012

REVISED -
 REVISED -
 REVISED -
 REVISED -

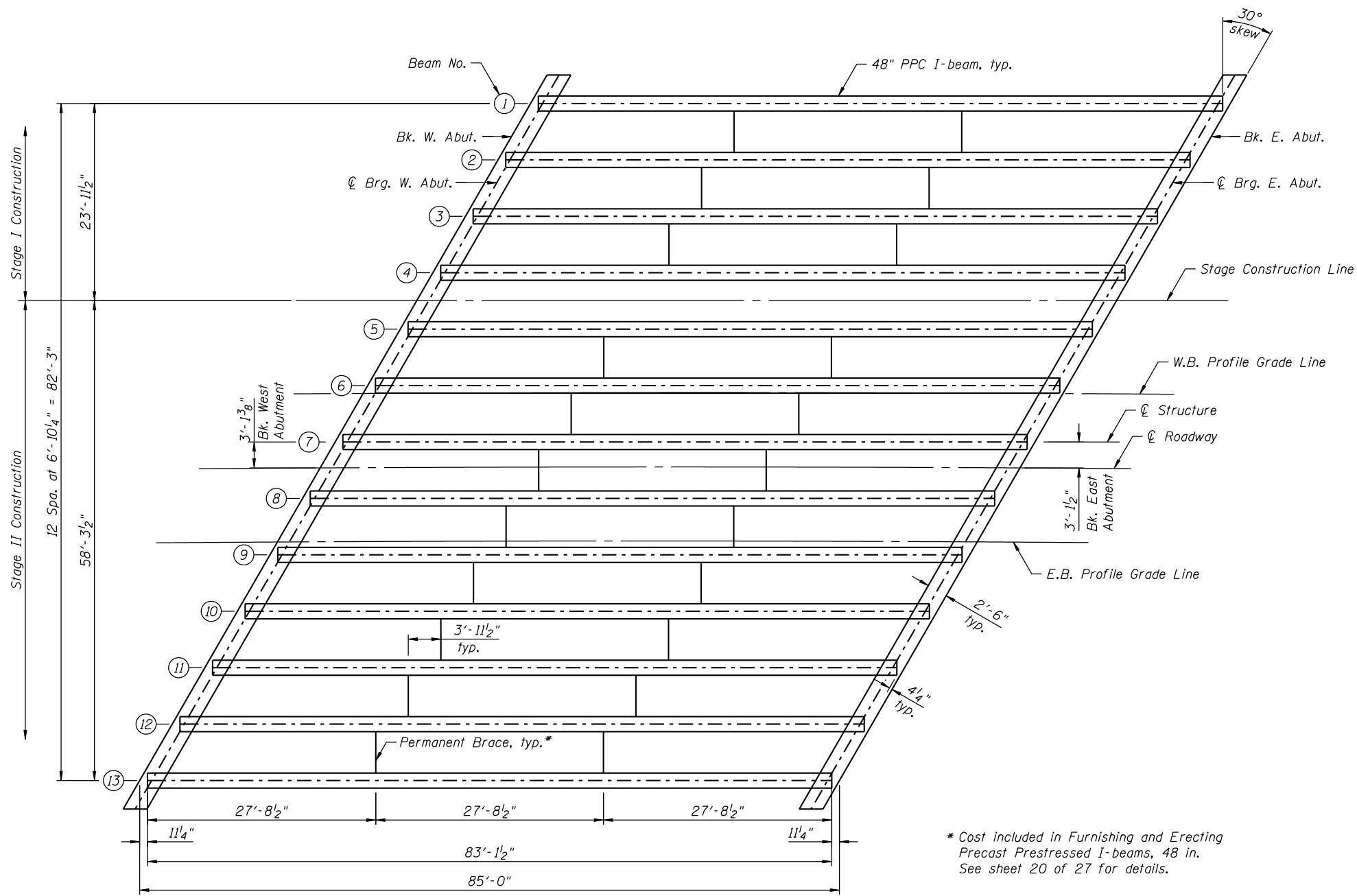
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-12
 STRUCTURE NO. 047-0301

SHEET NO. 17 OF 27 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	305
CONTRACT NO. 60132				
ILLINOIS FED. AID PROJECT				

FILE NAME = s:\p1\6380--6395\6346\023\micro\sh\str.plans\0470301-60132-013-FRAME.dgn



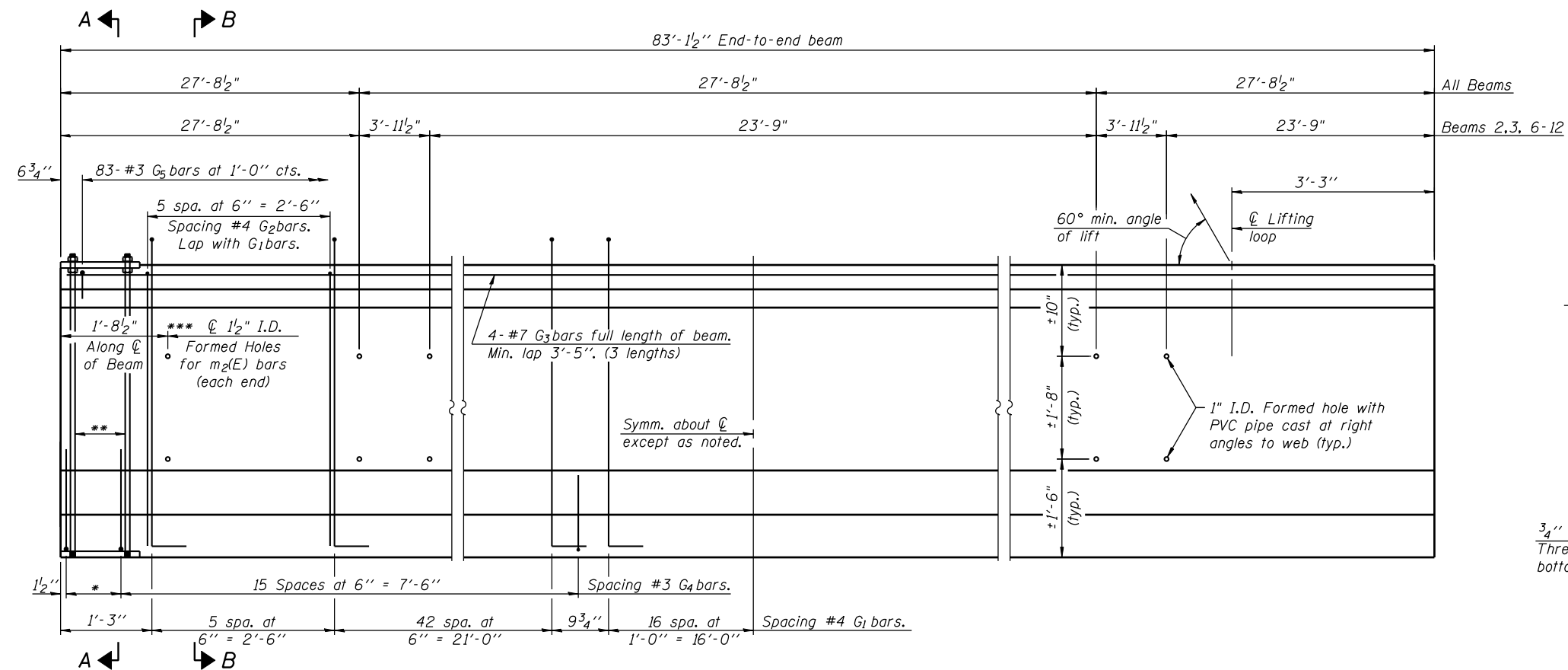
FRAMING PLAN

* Cost included in Furnishing and Erecting
Precast Prestressed I-beams, 48 in.
See sheet 20 of 27 for details.

INTERIOR BEAM MOMENT TABLE		
0.5 Sp.		
I	(in ⁴)	144117
I'	(in ⁴)	391313
S_b	(in ³)	6384.1
S_b'	(in ³)	11185.4
S_t	(in ³)	5355.1
S_t'	(in ³)	30064.7
$DC1$	(k/')	1.32
M_{DC1}	(k)	1110.84
$DC2$	(k/')	0.301
M_{DC2}	(k)	253.69
DW	(k/')	0.27
M_{DW}	(k)	226.72
$M_{\xi} + IM$	(k)	1346.57

INTERIOR BEAM REACTION TABLE		
Abut.		
R_{DC1}	(k)	54.11
R_{DC2}	(k)	12.36
R_{DW}	(k)	11.05
$R_{\xi} + IM$	(k)	93.37
R_{Total}	(k)	248.4

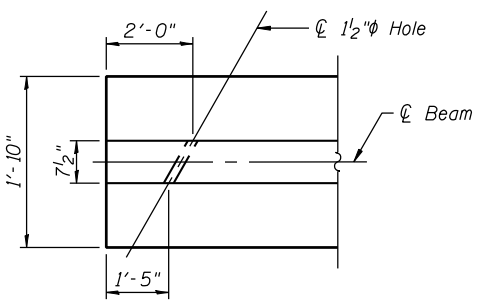
I : Non-composite moment of inertia of beam section (in.⁴).
 I' : Composite moment of inertia of beam section (in.⁴).
 S_b : Non-composite section modulus for the bottom fiber of the prestressed beam (in.³).
 S_b' : Composite section modulus for the bottom fiber of the prestressed beam (in.³).
 S_t : Non-composite section modulus for the top fiber of the prestressed beam (in.³).
 S_t' : Composite section modulus for the top fiber of the prestressed beam (in.³).
 $DC1$: Un-factored non-composite dead load (kips/ft.).
 M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).
 $DC2$: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
 M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
 DW : Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
 M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 $M_{\xi} + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).



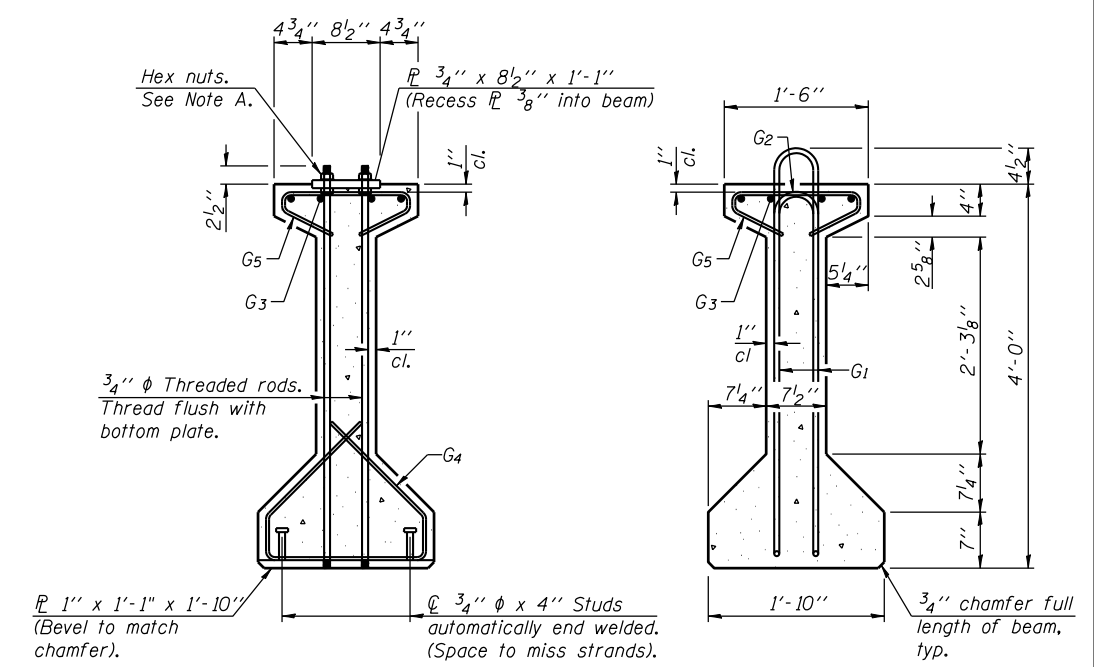
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

- * 3 spaces at 3" = 9".
- ** 4-3/4" φ threaded dowel rods at 3" cts., Each Face.
- *** Holes to be formed along skew.

Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.

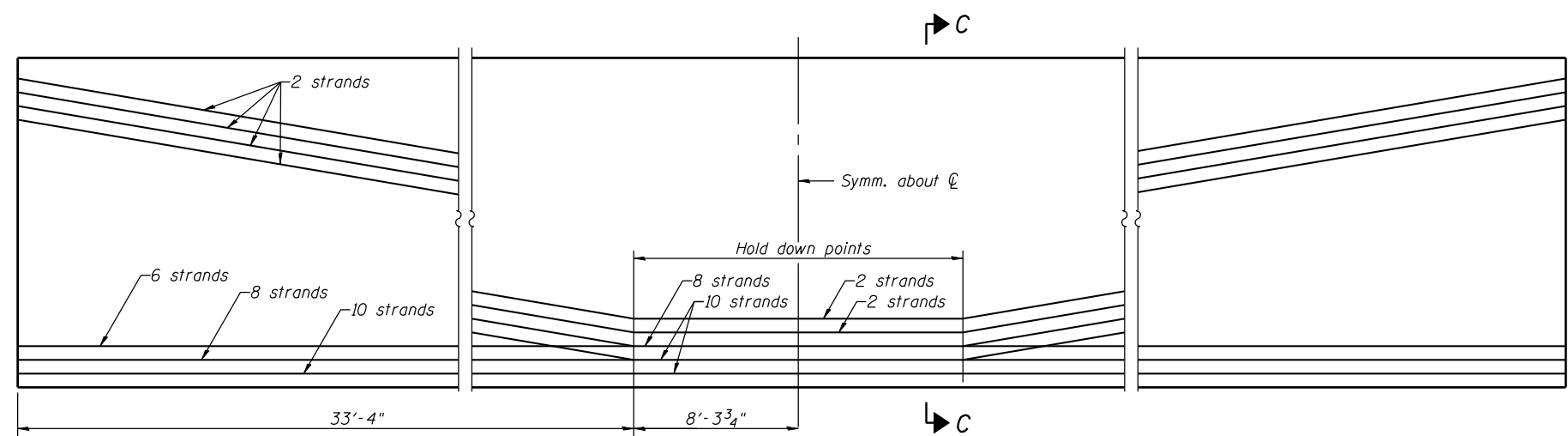


PLAN OF 1 1/2" I.D. FORMED HOLES FOR M2(e) BARS

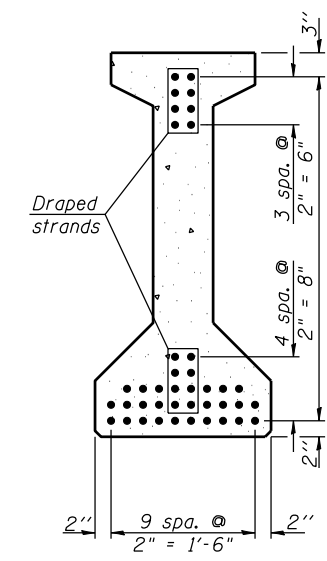


SECTION A-A

SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C

*****BAR LIST
ONE BEAM ONLY**

Bar	No.	Size	Length	Shape
G1	129	#4	9'-6"	∩L
G2	12	#4	7'-11"	∩
G3	12	#7	30'-0"	—
G4	38	#3	5'-3"	∩
G5	83	#3	2'-9"	∩

***For information only

Notes:
See sheet 20 of 27 for additional details and Bill of Material.
Required release strength, f'ci, shall be 6000 psi.

FILE NAME = s:\p1\6380--6395\6346\023\micro\sh\str.plans\0470301-60132-014-BEAM.dgn

PI-4-48

7-1-10

STRAND ENGINEERS
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-001273

USER NAME = briantf
DESIGNED *KDH*
CHECKED *AJS*
DRAWN *BJF*
CHECKED *KDH*
PLOT SCALE =
PLOT DATE = 5/1/2012

DESIGNED *KDH*
CHECKED *AJS*
DRAWN *BJF*
CHECKED *KDH*
REVIS

REVIS
REVIS
REVIS
REVIS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**48" PPC I-BEAM
STRUCTURE NO. 047-0301**

SHEET NO. 19 OF 27 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	307
CONTRACT NO. 60132				

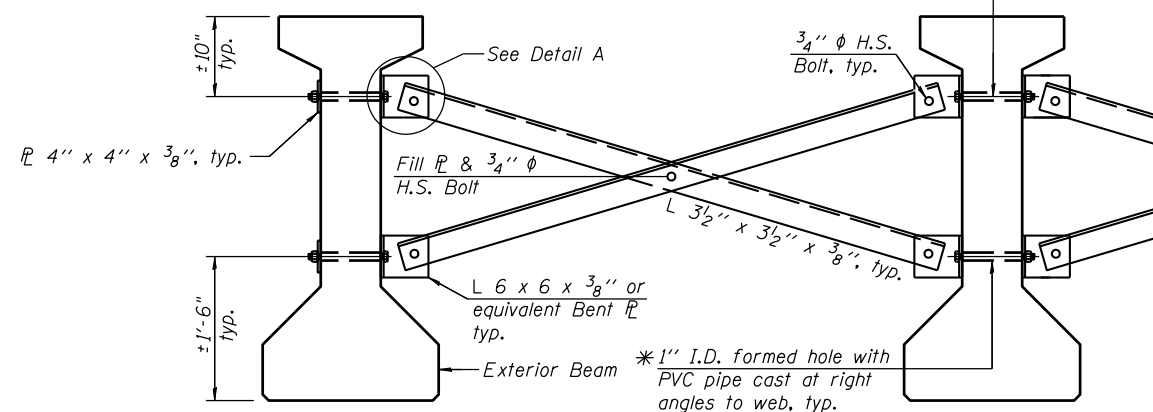
ILLINOIS FED. AID PROJECT

NOTES

Inserts for 3/4" ϕ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling. The top and bottom plates shall be AASHTO M270 Grade 50. The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized. Threaded rods shall be ASTM F 1554 Grade 55.

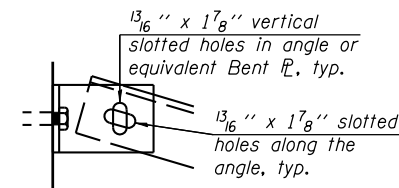
* Fabricator shall locate to miss strands within permissible tolerances.

3/4" ϕ A307 Bolts with lock nuts, typ. Bolts through the concrete web shall be tightened to snug tight only.

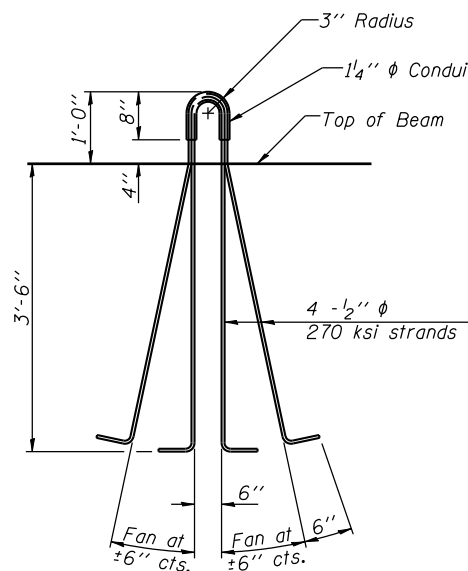


Notes:

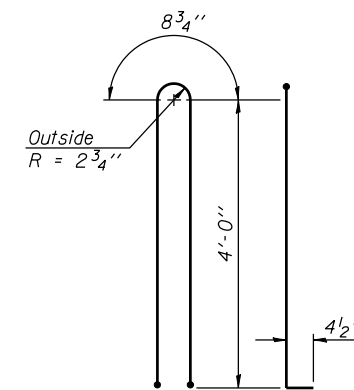
All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted. Two hardened washers are required for each set of oversized holes. All holes shall be 15/16" ϕ unless otherwise noted. 5/16" x 3" x 3" plate washers are required over all slotted holes. All bolts shall be galvanized according to AASHTO M232. Bracing shall be installed as beams are erected and tightened as soon as possible during erection.



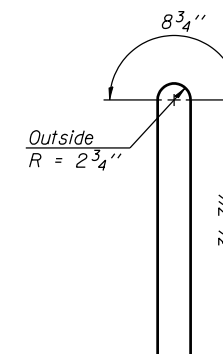
DETAIL A



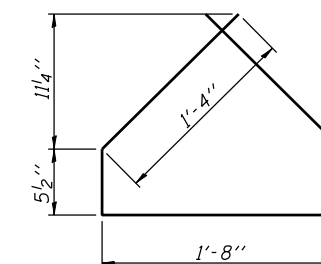
LIFTING LOOP DETAIL



BAR G1

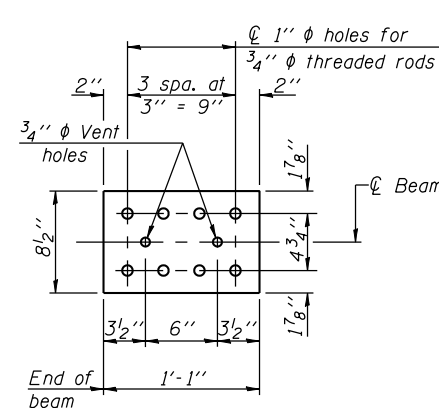


BAR G2

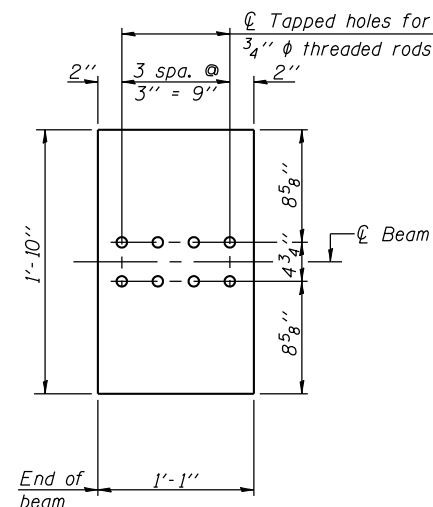


BAR G4

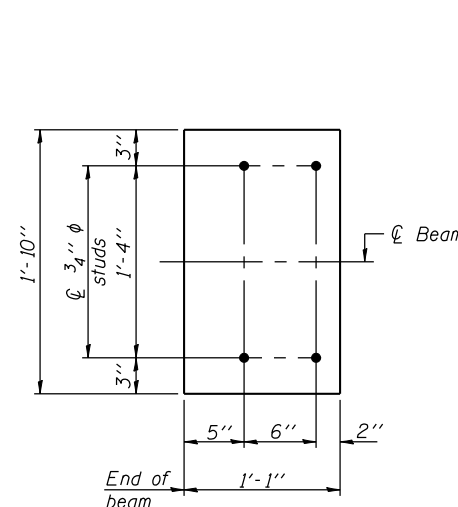
PERMANENT BRACING DETAILS FOR 48" PPC I-BEAMS



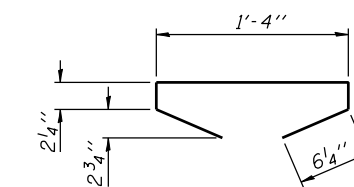
TOP PLATE



BOTTOM PLATE (Showing threaded rods)



BOTTOM PLATE (Showing studs)



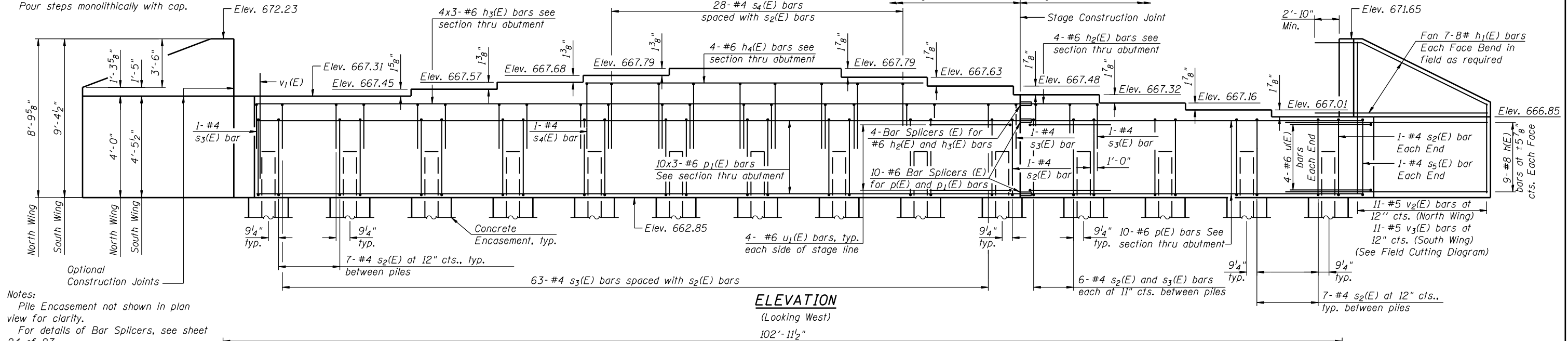
BAR G5

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 48 In.	Ft.	1,081

FILE NAME = s:\p1\63800-63995\6346\023\micro\sh\str_plans\0470301-60132-014-BEAM.dgn

Notes:
Pour steps monolithically with cap.



Notes:
Pile Encasement not shown in plan view for clarity.
For details of Bar Splicers, see sheet 24 of 27.
For details of piles and Concrete Encasement, see sheet 23 of 27.
Bars indicated thus 1x2-#5 etc. indicates 1 line of bars with 2 lengths per line.
Piles shall be driven through 2'-0" min. diameter precored holes extending to elevation 650.5 according to Article 512.09(c) of the Standard Specifications. Cost included in Driving Piles.

ELEVATION

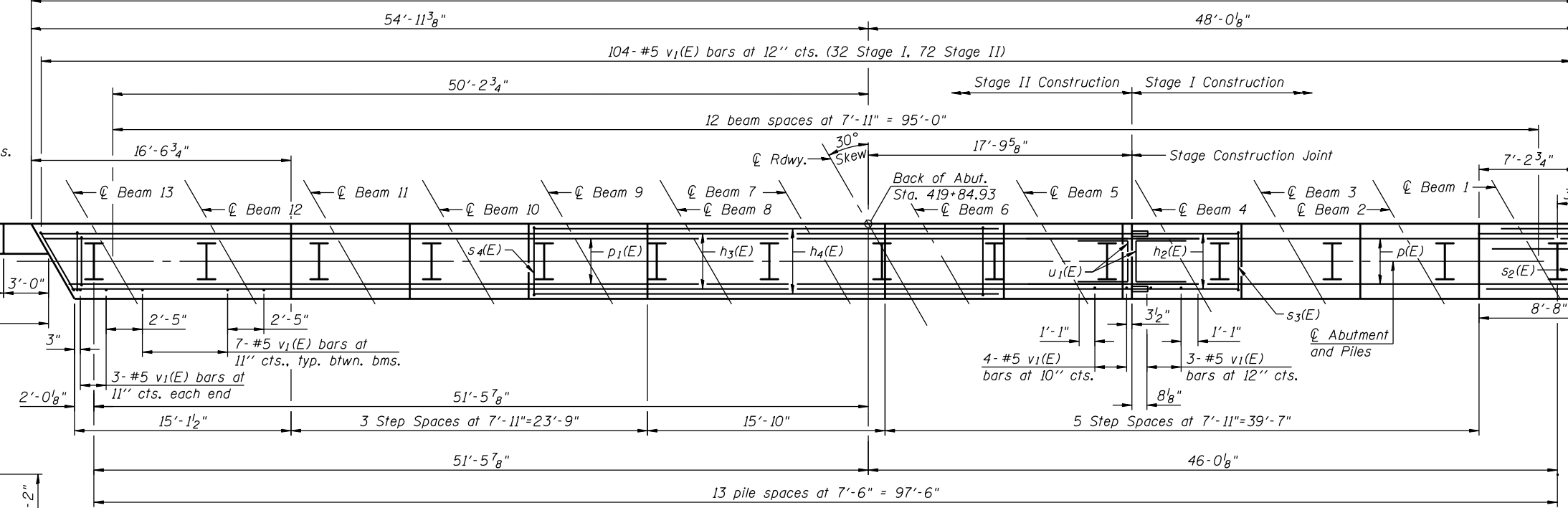
(Looking West)
102'-11 1/2"

PILE DATA

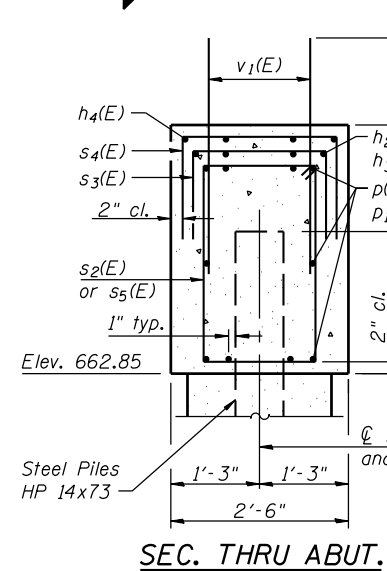
Type: Steel-HP14x73 with Pile Shoes
Nominal Required Bearing: 578 kip
Factored Resistance Available: 318 kip
Est. Length: 29 ft
No. Production Piles: 13
No. Test Piles: 1

BILL OF MATERIAL

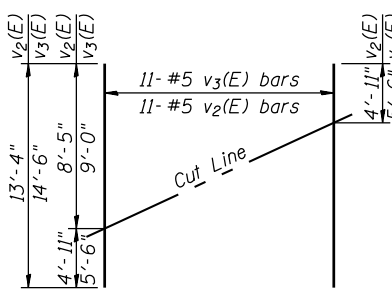
Bar	No.	Size	Length	Shape
h(E)	36	#8	16'-7"	—
h1(E)	28	#8	13'-5"	—
h2(E)	4	#7	6'-10"	—
h3(E)	12	#7	25'-9"	—
h4(E)	4	#7	31'-4"	—
p(E)	10	#7	31'-4"	—
p1(E)	30	#7	25'-9"	—
s2(E)	93	#4	12'-5"	□
s3(E)	72	#4	6'-10"	□
s4(E)	29	#4	7'-4"	□
s5(E)	2	#4	13'-3"	□
u(E)	8	#6	10'-2"	┌
u1(E)	8	#6	9'-10"	┌
v1(E)	194	#5	4'-4"	—
v2(E)	11	#5	13'-4"	—
v3(E)	11	#5	14'-6"	—
Structure Excavation			Cu. Yd.	216
Concrete Structures			Cu. Yd.	50
Concrete Encasement			Cu. Yd.	8
Reinforcement Bars, Epoxy Coated			Pound	8,460
Furnishing Steel Piles HP14x73			Foot	377
Driving Piles			Foot	377
Test Pile Steel HP14x73			Each	1
Pile Shoes			Each	14



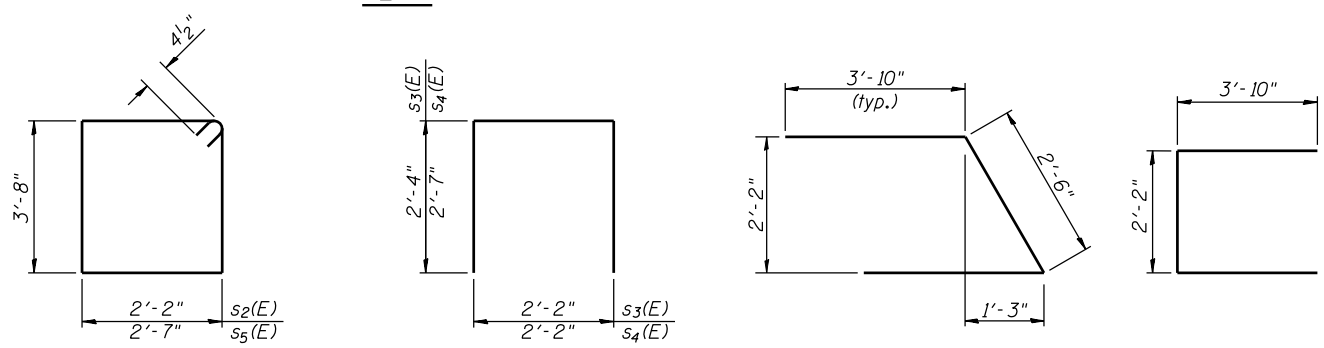
PLAN



SEC. THRU ABUT.



FIELD CUTTING DIAGRAM
Order v2(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s2(E) & s5(E) **BARS s3(E) & s4(E)** **BAR u(E)** **BAR u1(E)**

FILE NAME = s:\p1\6380--6395\6346\023\micro\sh\str.plans\0470301-60132-015-ABUT.dgn

STRAND ASSOCIATES, INC.
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR No. 184-001273

USER NAME = briantf	DESIGNED <i>KDH</i>	REVISED -
PLOT SCALE =	CHECKED <i>AJS</i>	REVISED -
PLOT DATE = 5/1/2012	DRAWN <i>BJF</i>	REVISED -
	CHECKED <i>KDH</i>	REVISED -

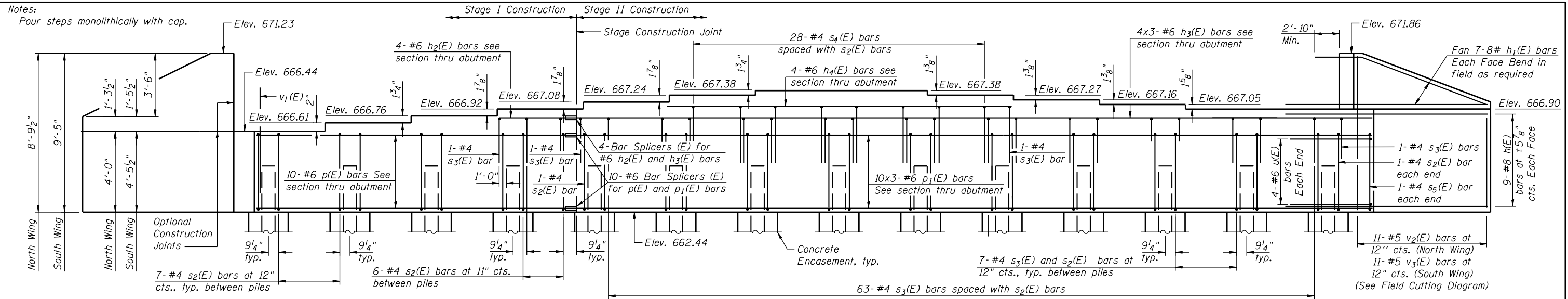
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT DETAILS
STRUCTURE NO. 047-0301

SHEET NO. 21 OF 27 SHEETS

F.A.P. RTE. 349	SECTION 11 WRS-3	COUNTY KENDALL	TOTAL SHEETS 527	SHEET NO. 309
			CONTRACT NO. 60132	
ILLINOIS FED. AID PROJECT				

Notes:
Pour steps monolithically with cap.

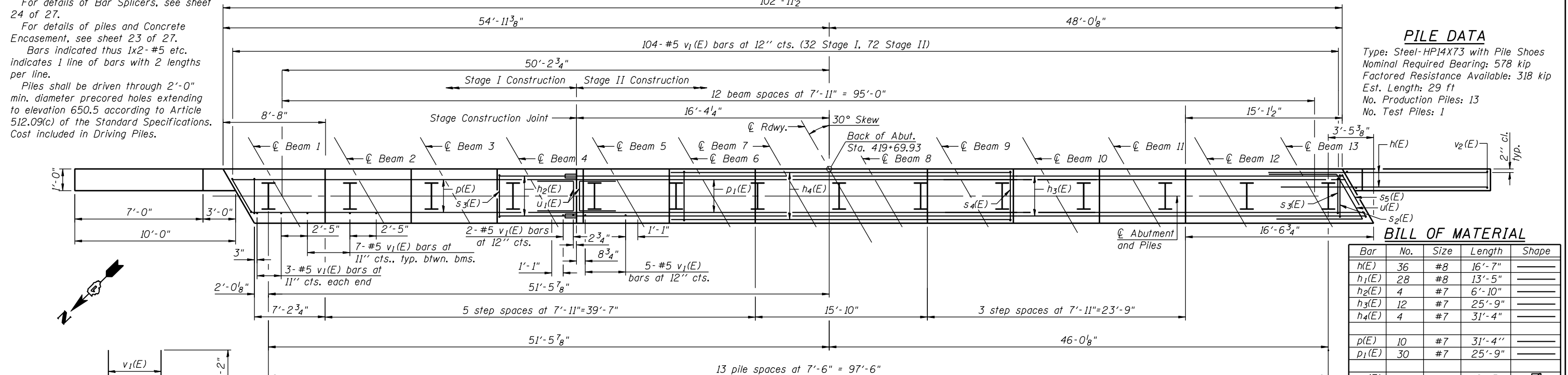


Notes:
Pile Encasement not shown in plan view for clarity.
For details of Bar Splicers, see sheet 24 of 27.
For details of piles and Concrete Encasement, see sheet 23 of 27.
Bars indicated thus 1x2-#5 etc. indicates 1 line of bars with 2 lengths per line.
Piles shall be driven through 2'-0" min. diameter precored holes extending to elevation 650.5 according to Article 512.09(c) of the Standard Specifications. Cost included in Driving Piles.

ELEVATION
(Looking East)
102'-11 1/2"

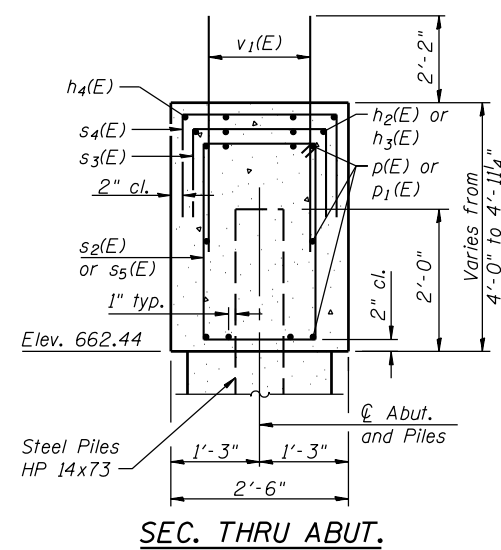
PILE DATA

Type: Steel-HP14x73 with Pile Shoes
Nominal Required Bearing: 578 kip
Factored Resistance Available: 318 kip
Est. Length: 29 ft
No. Production Piles: 13
No. Test Piles: 1

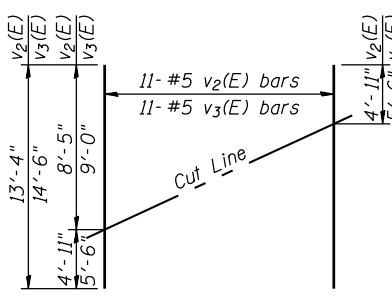


BILL OF MATERIAL

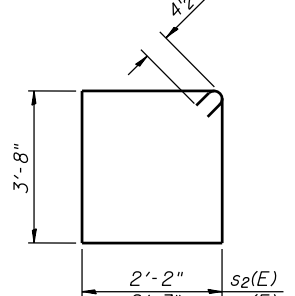
Bar	No.	Size	Length	Shape
h(E)	36	#8	16'-7"	—
h1(E)	28	#8	13'-5"	—
h2(E)	4	#7	6'-10"	—
h3(E)	12	#7	25'-9"	—
h4(E)	4	#7	31'-4"	—
p(E)	10	#7	31'-4"	—
p1(E)	30	#7	25'-9"	—
s2(E)	93	#4	12'-5"	□
s3(E)	72	#4	6'-10"	□
s4(E)	29	#4	7'-4"	□
s5(E)	2	#4	13'-3"	□
u(E)	8	#6	10'-2"	⌋
u1(E)	8	#6	9'-10"	⌋
v1(E)	194	#5	4'-4"	—
v2(E)	11	#5	13'-4"	—
v3(E)	11	#5	14'-6"	—
Structure Excavation			Cu. Yd.	216
Concrete Structures			Cu. Yd.	49
Concrete Encasement			Cu. Yd.	8
Reinforcement Bars, Epoxy Coated			Pound	8,460
Furnishing Steel Piles HP14x73			Foot	377
Driving Piles			Foot	377
Test Pile Steel HP14x73			Each	1
Pile Shoes			Each	14



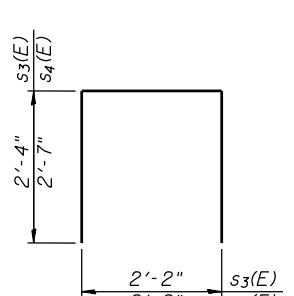
SEC. THRU ABUT.



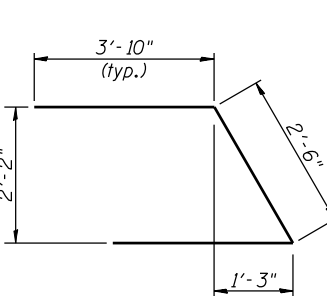
FIELD CUTTING DIAGRAM
Order v2(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



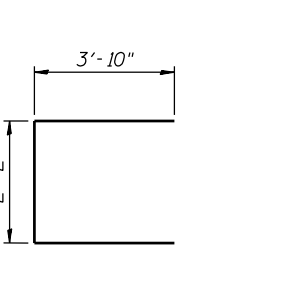
BARS s2(E) & s5(E)



BARS s3(E) & s4(E)



BAR u(E)



BAR u1(E)

FILE NAME = s:\p01\6380--6395\6346\023\micro\sh\str.plans\0470301-60132-015-ABUT.dgn

1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-001273

USER NAME = briant
PLOT SCALE =
PLOT DATE = 5/1/2012

DESIGNED KDH
CHECKED AJS
DRAWN BJF
CHECKED KDH

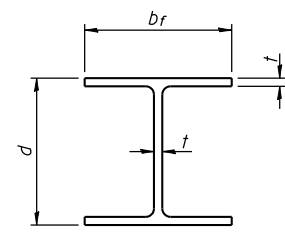
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST ABUTMENT DETAILS
STRUCTURE NO. 047-0301**
SHEET NO. 22 OF 27 SHEETS

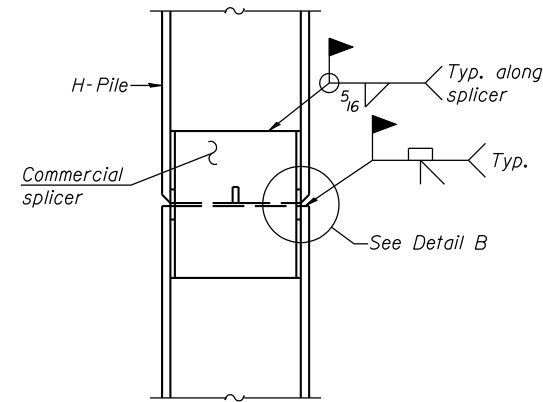
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	310

CONTRACT NO. 60132
ILLINOIS FED. AID PROJECT

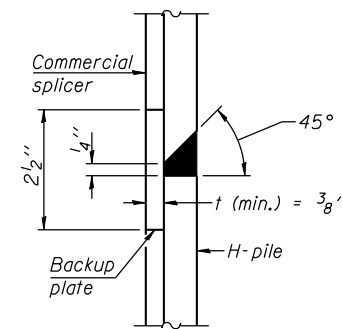


STEEL PILE TABLE

Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

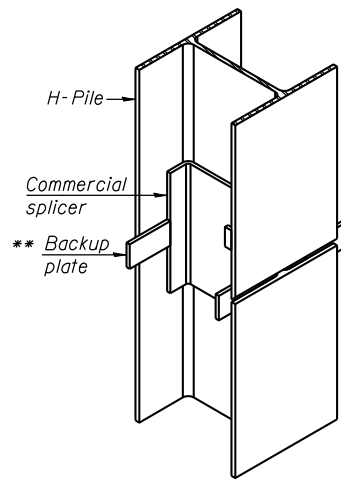


ELEVATION

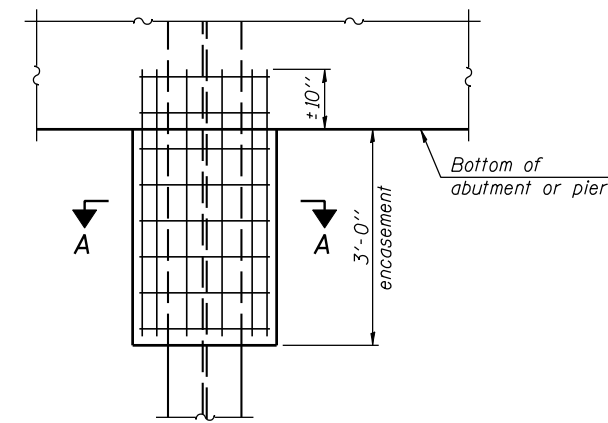


DETAIL "B"

WELDED COMMERCIAL SPLICE

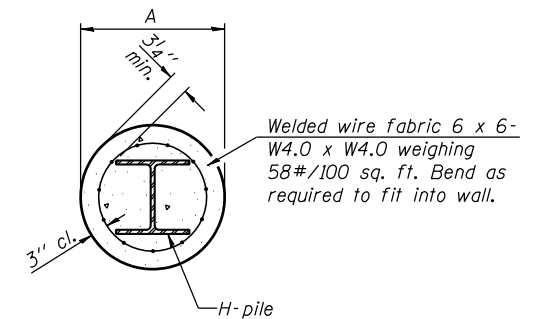


ISOMETRIC VIEW



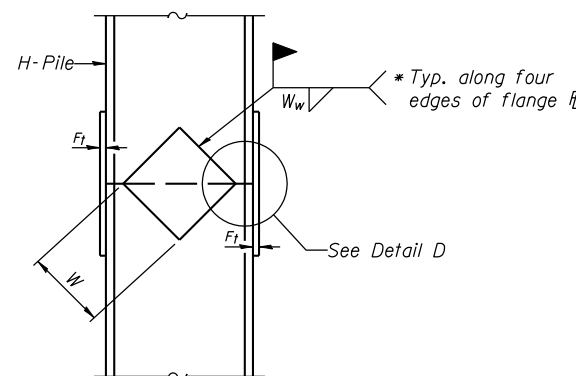
ELEVATION

PILE ENCASEMENT

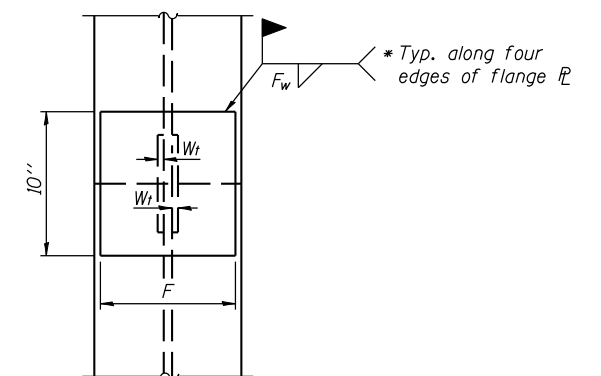


SECTION A-A

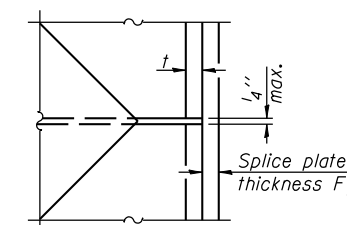
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



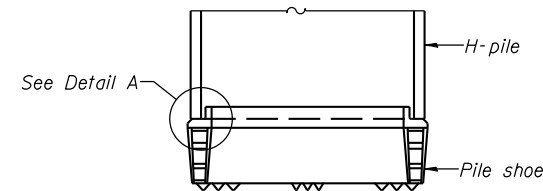
END VIEW



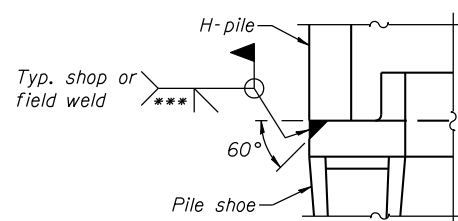
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 1/2"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 1/2"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5 1/2"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 1/2"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5 1/2"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5 1/2"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

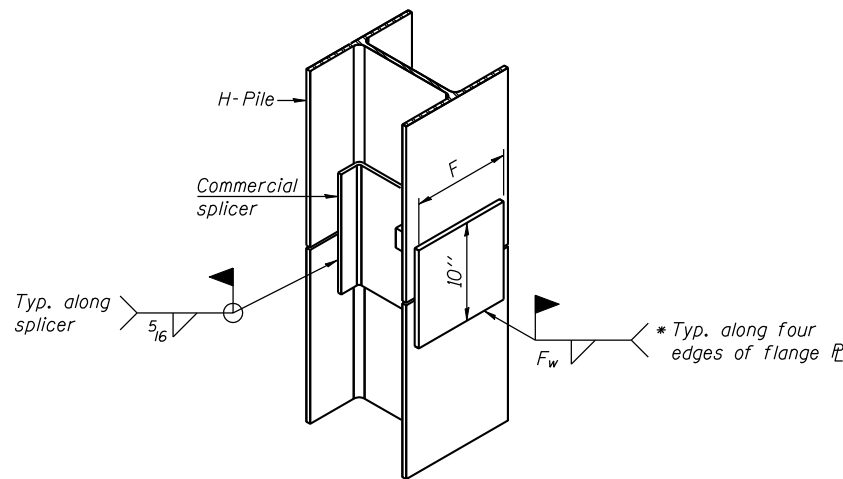


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

FILE NAME = s:\p1\6380--6395\6346\023\micro\sh\st\plans\0470301-60132-01E-PILE.dgn

F-HP 7-1-10

	1170 SOUTH HOUBOLT ROAD	USER NAME = brianf	DESIGNED KDH	REVISED -
	JOLIET, ILLINOIS 60431		CHECKED AJS	REVISED -
	(815) 744-4200		DRAWN BJF	REVISED -
	IDFPR NO. 184-001273		CHECKED KDH	REVISED -

PLOT SCALE =	
PLOT DATE = 5/1/2012	

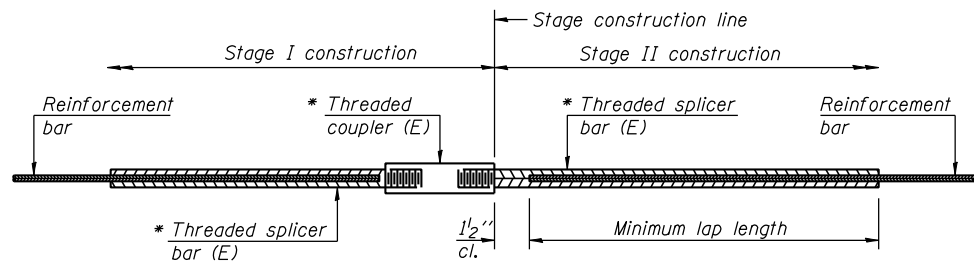
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS
STRUCTURE NO. 047-0301**

SHEET NO. 23 OF 27 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	311
CONTRACT NO. 60132				

ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

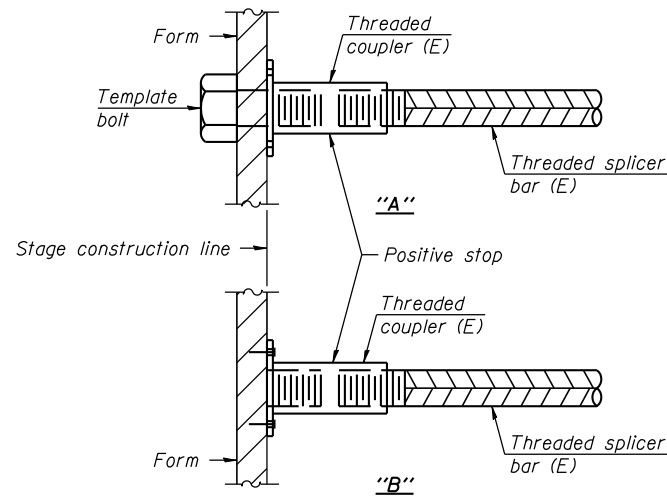
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- 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, Top bar lap, Class B

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

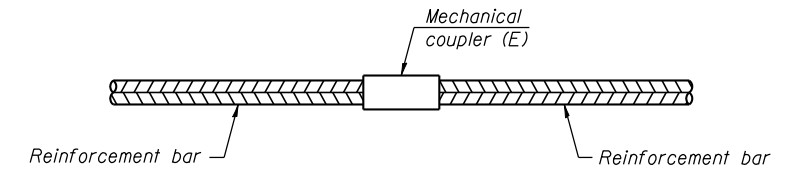
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	254	Table 3
Approach Slab	#4	50	Table 4
Approach Slab	#5	172	Table 3
Diaphragms	#6	16	Table 3
Abutments	#7	28	Table 4



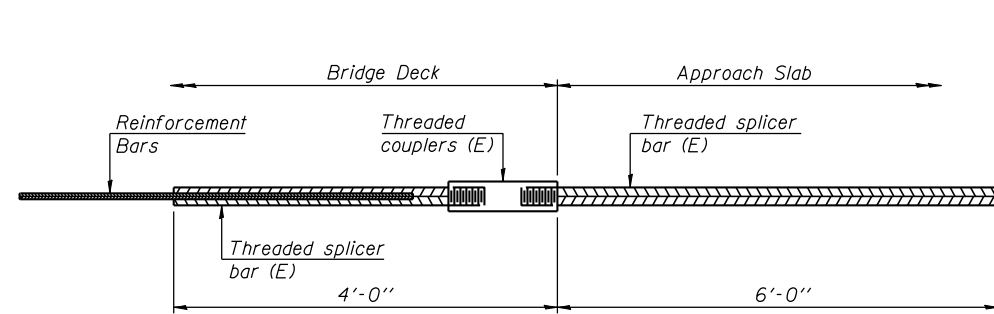
INSTALLATION AND SETTING METHODS

"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.



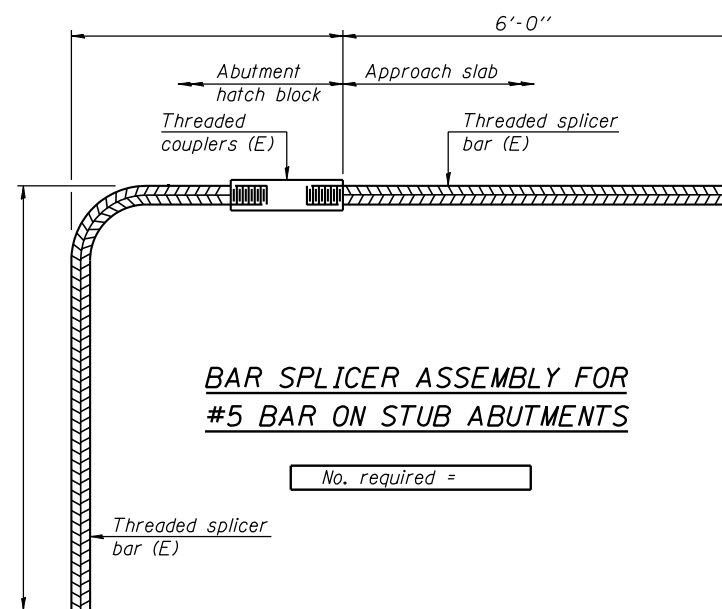
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

No. required = 182



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

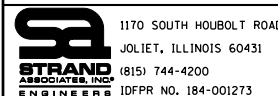
NOTES

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 special provision for Mechanical Splicers.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE NAME = s:\p1\6300--6399\6346\023\micro\sh\str.plans\0470301-60132-017-SPLICE.dgn

BSD-1

7-1-10



USER NAME = brianf	DESIGNED KDH	REVISED -
PLOT SCALE =	CHECKED AJS	REVISED -
PLOT DATE = 5/1/2012	DRAWN BJF	REVISED -
	CHECKED KDH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 047-0301

SHEET NO. 24 OF 27 SHEETS

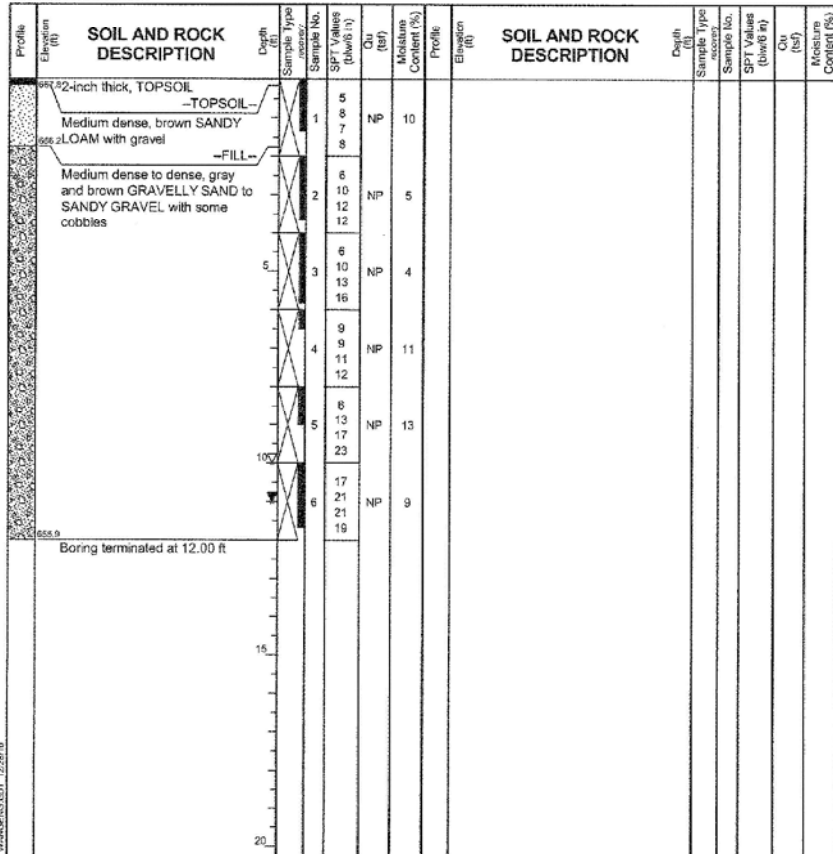
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	312
CONTRACT NO. 60132				

ILLINOIS FED. AID PROJECT

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

BORING LOG WC-01
WEI Job No.: 195-05-01
Client: Strand Associates, Inc.
Project: US Route 30 from Briarcliff Road to US Route 34
Location: Kendall County, IL

Datum: NGVD
Elevation: 667.94 ft
North: 1839965.78 ft
East: 993980.15 ft
Station: 419+25.70
Offset: 26.00 RT

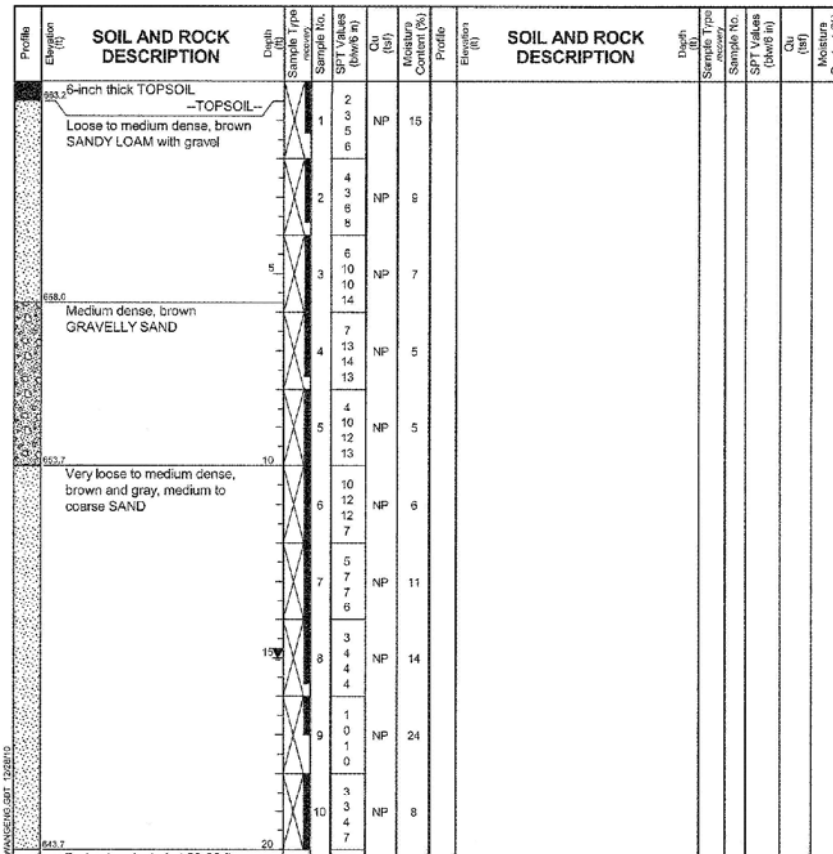


GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling: 11-29-2010	Complete Drilling: 11-29-2010	While Drilling: 10.00 ft	
Drilling Contractor: WTS	Drill Rig: Diedrich D-50	At Completion of Drilling: 11.00 ft	
Driller: K&K	Logger: F. Bozga	Time After Drilling: NA	
Checked by: M. Snider		Depth to Water: NA	
Drilling Method: 3.25" HSA		The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.	

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

BORING LOG WC-02
WEI Job No.: 195-05-01
Client: Strand Associates, Inc.
Project: US Route 30 from Briarcliff Road to US Route 34
Location: Kendall County, IL

Datum: NGVD
Elevation: 663.72 ft
North: 1839962.27 ft
East: 994274.66 ft
Station: 422+12.07
Offset: 43.08 LT

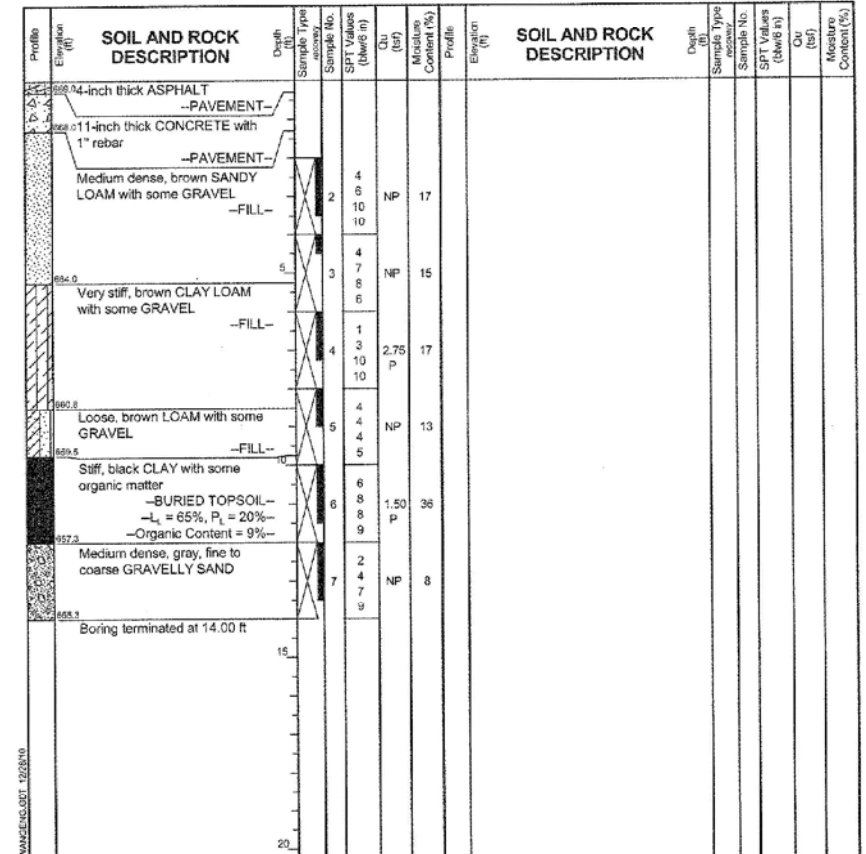


GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling: 11-29-2010	Complete Drilling: 11-29-2010	While Drilling: 15.00 ft	
Drilling Contractor: WTS	Drill Rig: Diedrich D-50	At Completion of Drilling: 15.00 ft	
Driller: K&K	Logger: F. Bozga	Time After Drilling: NA	
Checked by: M. Snider		Depth to Water: NA	
Drilling Method: 3.25" HSA		The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.	

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

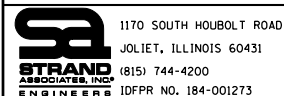
BORING LOG WC-03
WEI Job No.: 195-05-01
Client: Strand Associates, Inc.
Project: US Route 30 from Briarcliff Road to US Route 34
Location: Kendall County, IL

Datum: NGVD
Elevation: 666.28 ft
North: 1839945.04 ft
East: 994141.09 ft
Station: 420+91.90
Offset: 16.05 RT



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling: 12-02-2010	Complete Drilling: 12-02-2010	While Drilling: DRY	
Drilling Contractor: WTS	Drill Rig: Mobile B-57	At Completion of Drilling: DRY	
Driller: R&J	Logger: B. Wilson	Time After Drilling: NA	
Checked by: M. Snider		Depth to Water: NA	
Drilling Method: 3.25" HSA		The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.	

FILE NAME = s:\p1\6380--6395\6346\023\micro\sh\str_plans\0470301-60132-018-SBL.dgn



USER NAME = brianf	DESIGNED KDH	REVISED -
	CHECKED AJS	REVISED -
PLOT SCALE =	DRAWN BJF	REVISED -
PLOT DATE = 5/1/2012	CHECKED KDH	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOG (1 OF 3)
STRUCTURE NO. 047-0301**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	313
CONTRACT NO. 60132				
ILLINOIS FED. AID PROJECT				

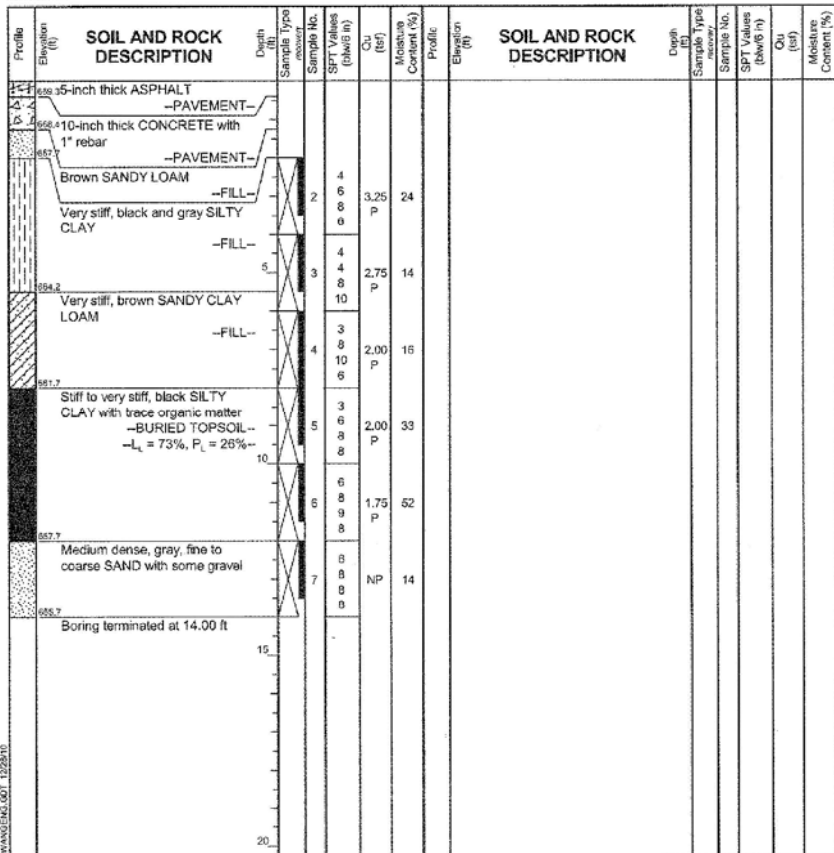
SHEET NO. 25 OF 27 SHEETS

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

BORING LOG WC-04
WEI Job No.: 195-05-01

Datum: NGVD
Elevation: 668.68 ft
North: 1640012.58 ft
East: 094032.64 ft
Station: 419+67.86
Offset: 15.47 LT

Client: **Strand Associates, Inc.**
Project: **US Route 30 from Briarcliff Road to US Route 34**
Location: **Kendall County, IL**



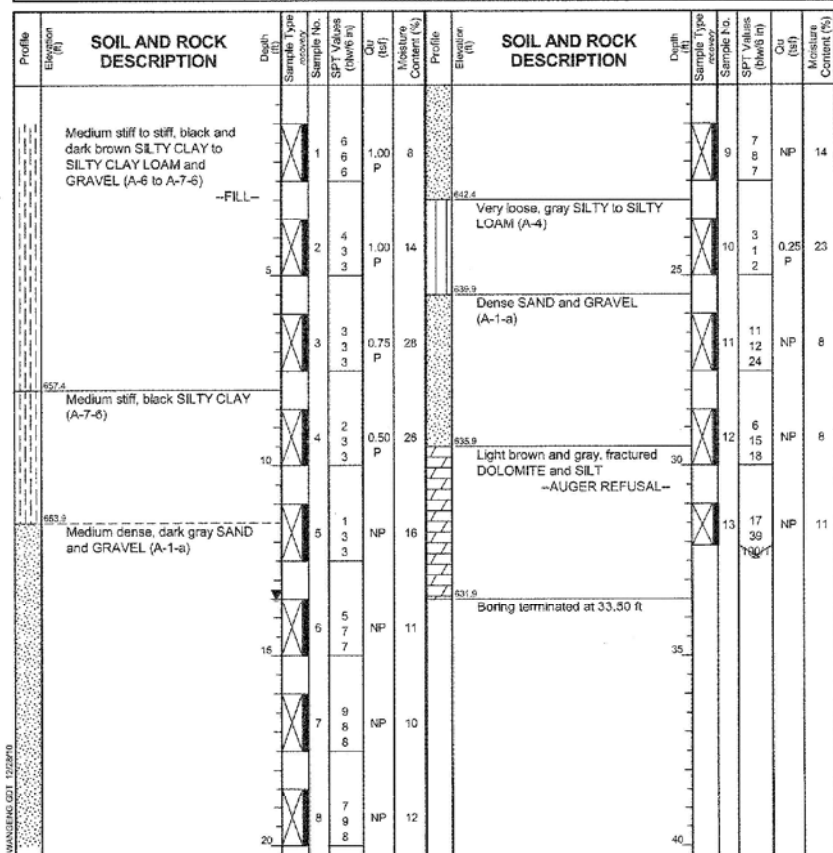
GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-02-2010	Complete Drilling	12-02-2010
Drilling Contractor	WTS	Drill Rig	Mobile B-57
Driller	R&J	Logger	B. Wilson
Checked by	M. Snider	Drilling Method	3.25" HSA
While Drilling	DRY	At Completion of Drilling	DRY
Time After Drilling	NA	Depth to Water	NA

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

BORING LOG SB-39
WEI Job No.: 195-05-01

Datum: NGVD
Elevation: 665.40 ft
North: 1639920.55 ft
East: 994010.28 ft
Station: 419+50
Offset: 40 RT

Client: **Strand Associates, Inc.**
Project: **US Route 30 from Briarcliff Road to US Route 34**
Location: **Kendall County, IL**



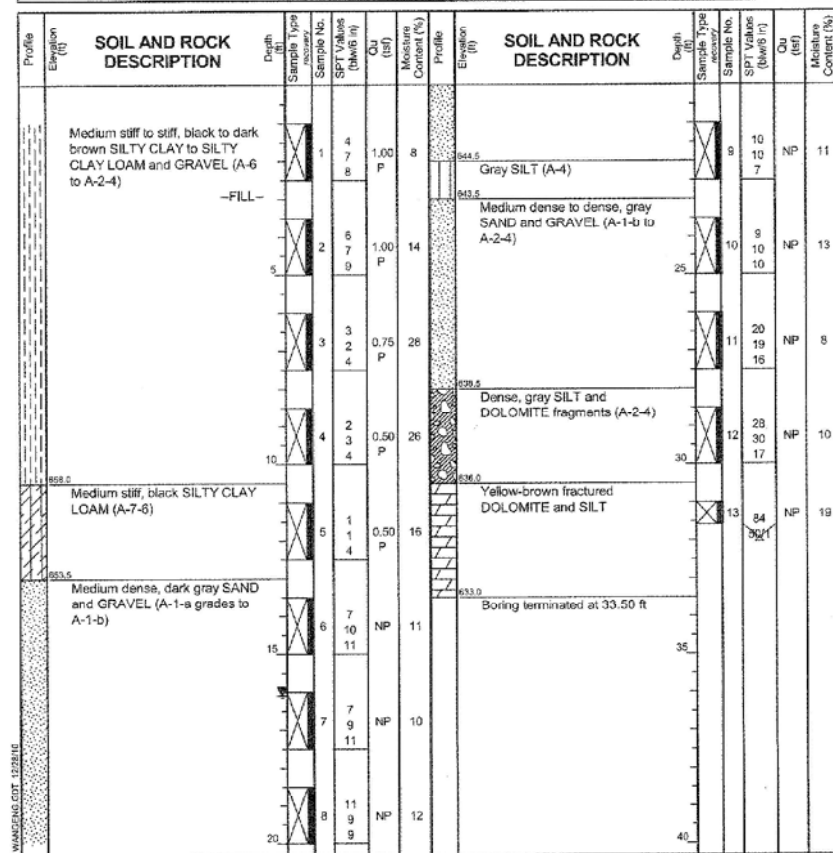
GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	07-19-1995	Complete Drilling	07-19-1995
Drilling Contractor		Drill Rig	
Driller		Logger	A. Bohac
Checked by	A. Bohac	Drilling Method	Boring provided by IDOT
While Drilling	13.50 ft	At Completion of Drilling	13.50 ft
Time After Drilling	NA	Depth to Water	NA

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

BORING LOG SB-40
WEI Job No.: 195-05-01

Datum: NGVD
Elevation: 668.50 ft
North: 1840025.20 ft
East: 994036.80 ft
Station: 419+85
Offset: 45 LT

Client: **Strand Associates, Inc.**
Project: **US Route 30 from Briarcliff Road to US Route 34**
Location: **Kendall County, IL**



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	07-19-1995	Complete Drilling	07-19-1995
Drilling Contractor		Drill Rig	
Driller		Logger	A. Bohac
Checked by	A. Bohac	Drilling Method	Boring provided by IDOT
While Drilling	16.10 ft	At Completion of Drilling	16.10 ft
Time After Drilling	NA	Depth to Water	NA

FILE NAME = s:\p1\6380--6395\6346\023\micro\sh\str_plans\0470301-60132-01B-SBL.dgn



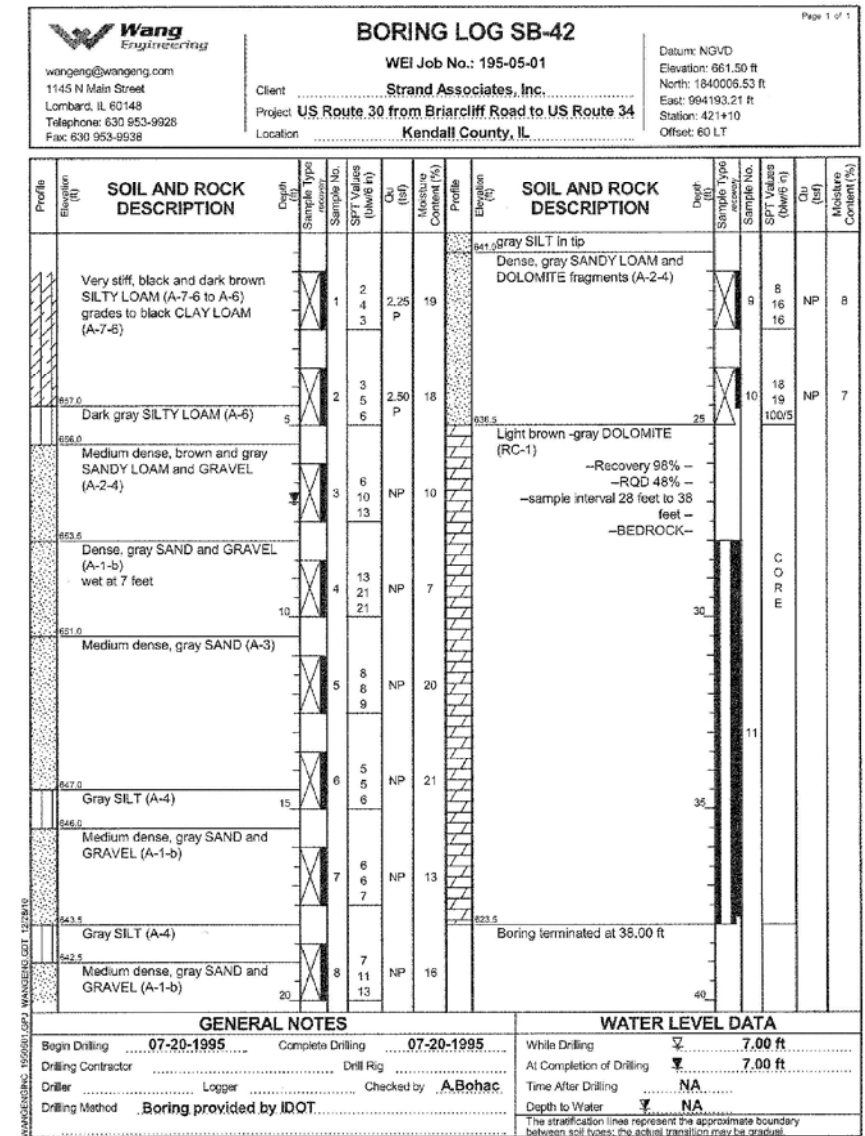
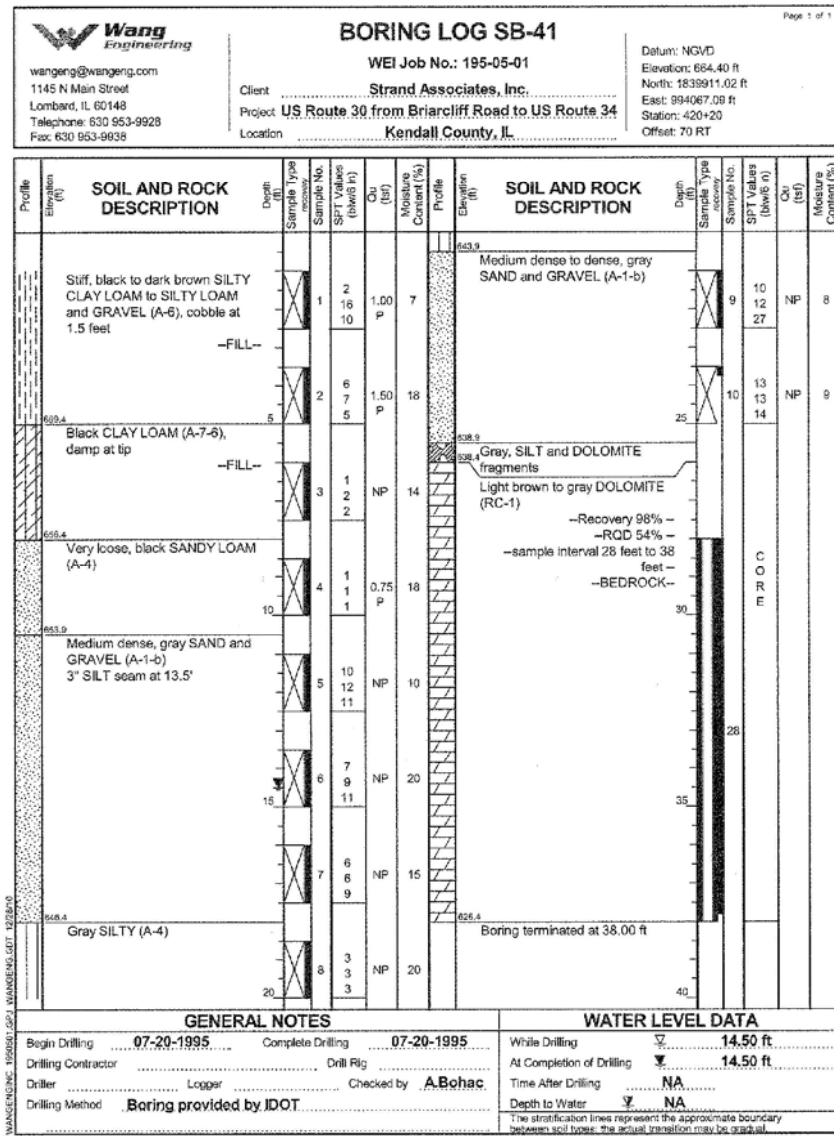
USER NAME = brianf	DESIGNED <i>KDH</i>	REVISED -
PLOT SCALE =	CHECKED <i>AJS</i>	REVISED -
PLOT DATE = 5/1/2012	DRAWN <i>BJF</i>	REVISED -
	CHECKED <i>KDH</i>	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOG (2 OF 3)
STRUCTURE NO. 047-0301**
SHEET NO. 26 OF 27 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	314
CONTRACT NO. 60132				
ILLINOIS FED. AID PROJECT				

FILE NAME = s:\p1\6380--6395\6346\023\micro\sh\str_plans\0470301-60132-01B-SBL.dgn



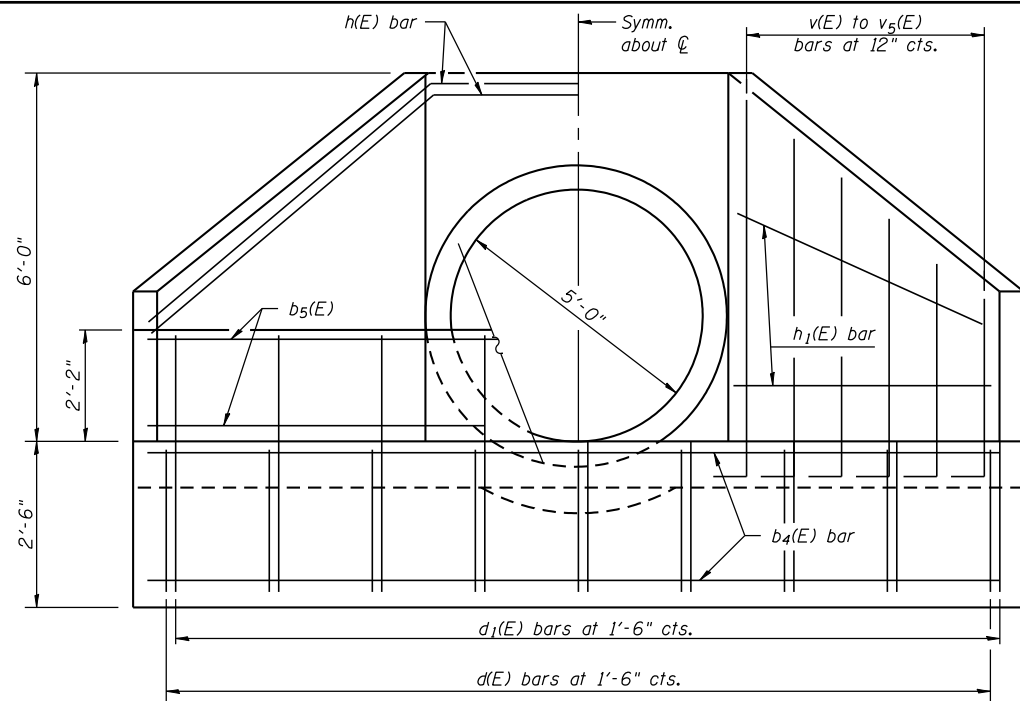
USER NAME = brianf	DESIGNED KDH	REVISED -
PLOT SCALE =	CHECKED AJS	REVISED -
PLOT DATE = 5/1/2012	DRAWN BJF	REVISED -
	CHECKED KDH	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

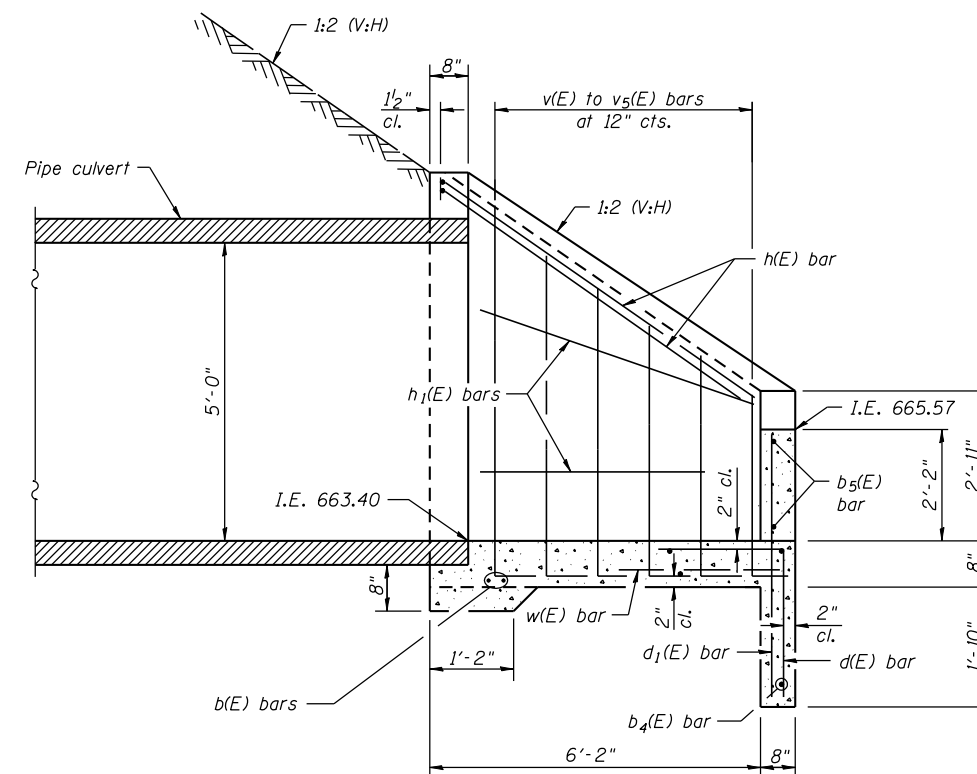
**SOIL BORING LOG (3 OF 3)
STRUCTURE NO. 047-0301**

SHEET NO. 27 OF 27 SHEETS

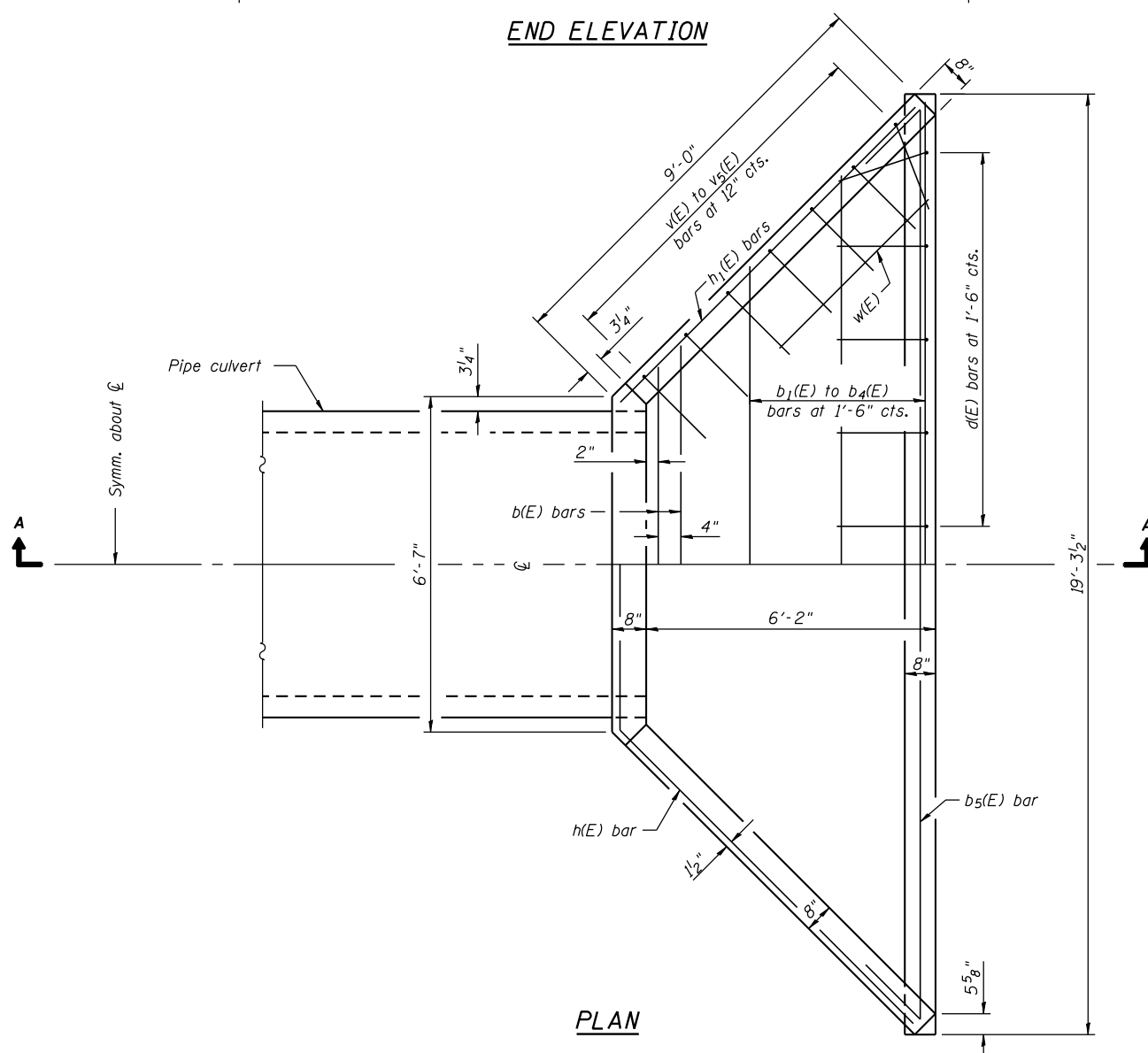
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	315
CONTRACT NO. 60132				
ILLINOIS FED. AID PROJECT				



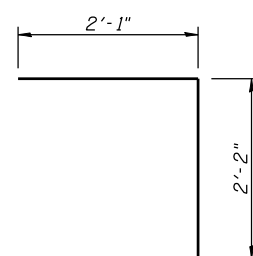
END ELEVATION



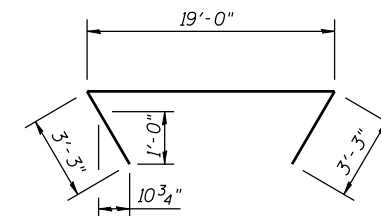
SECTION A-A



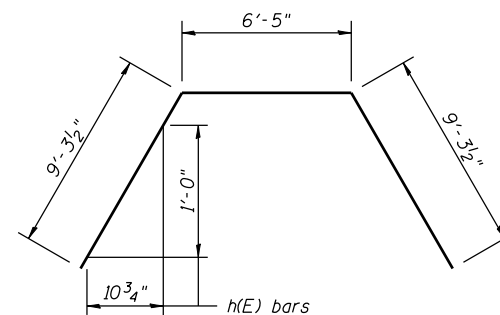
PLAN



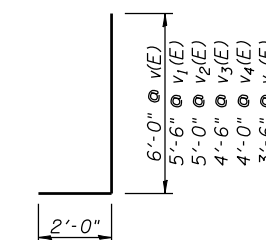
d(E) BAR



b5(E) BAR



h(E) BAR



v(E) to v5(E) BARS

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b(E)	2	#5	8'-0"	U
b1(E)	1	#4	10'-6"	U
b2(E)	1	#4	13'-6"	U
b3(E)	1	#4	16'-6"	U
b4(E)	2	#4	19'-0"	U
b5(E)	2	#5	25'-6"	T
d(E)	13	#4	4'-3"	U
d1(E)	13	#4	4'-4"	U
h(E)	2	#5	25'-0"	T
h1(E)	4	#4	8'-9"	U
v(E)	4	#5	8'-0"	U
v1(E)	2	#5	7'-6"	U
v2(E)	2	#5	7'-0"	U
v3(E)	4	#5	6'-6"	U
v4(E)	2	#5	6'-0"	U
v5(E)	4	#5	5'-6"	U
w(E)	2	#4	4'-0"	U
Reinforcement Bars, Epoxy Coated			Pound	406
Concrete Substructure			Cu. Yd.	7

FILE NAME = s:\p1\6380-6395\6346\023\micro\sh\str.plans\0470301-60132-021-PIPECUL.dgn

STRAND
ASSOCIATES, INC.
ENGINEERS

1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-001273

USER NAME = brianf
DESIGNED *KDH*
CHECKED *AJS*
DRAWN *BJF*
CHECKED *KDH*
PLOT SCALE =
PLOT DATE = 5/1/2012

DESIGNED -
REVISD -
REVISD -
REVISD -
REVISD -

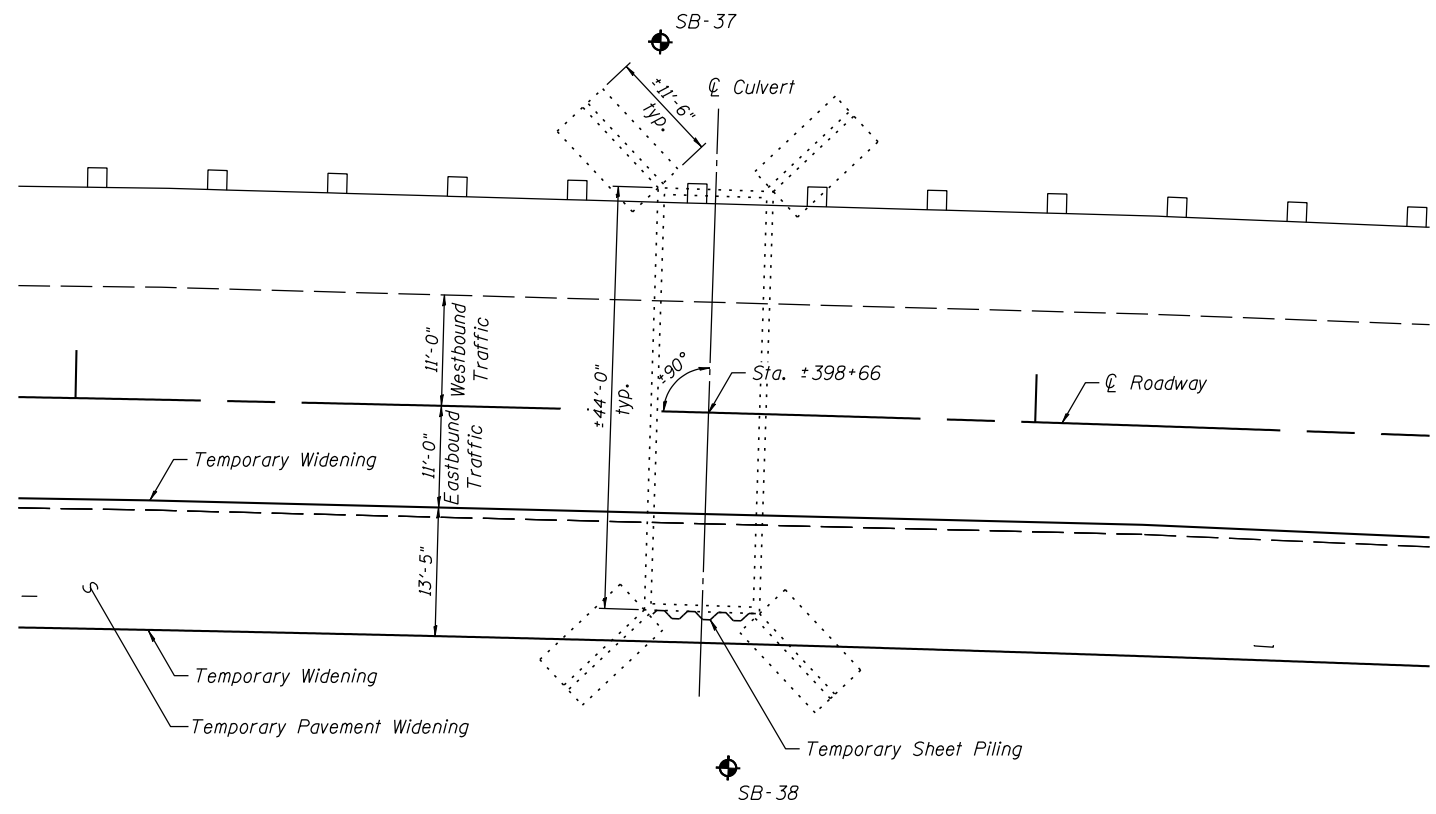
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CAST-IN-PLACE REINFORCED CONCRETE END SECTION 60" (SPECIAL)
FOR STORM SEWER AT STA. 344+25.00**

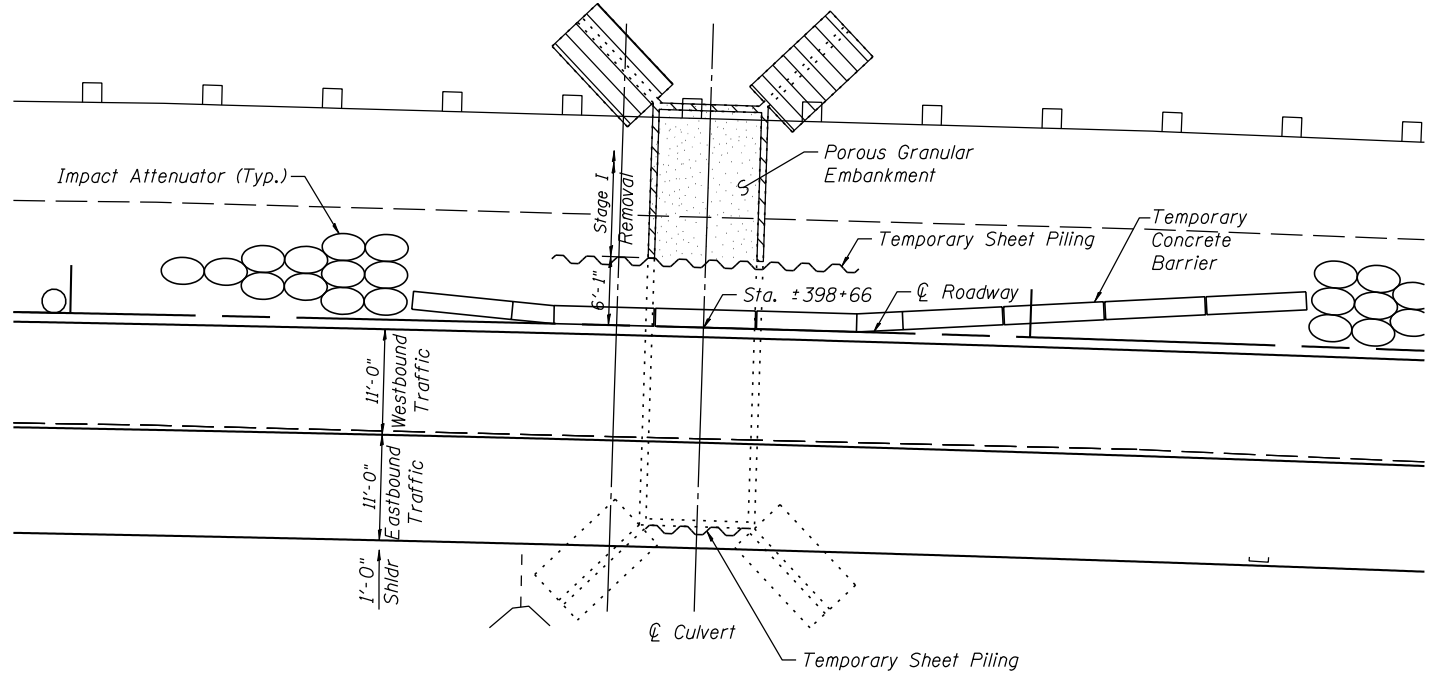
SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	316
CONTRACT NO. 60132				

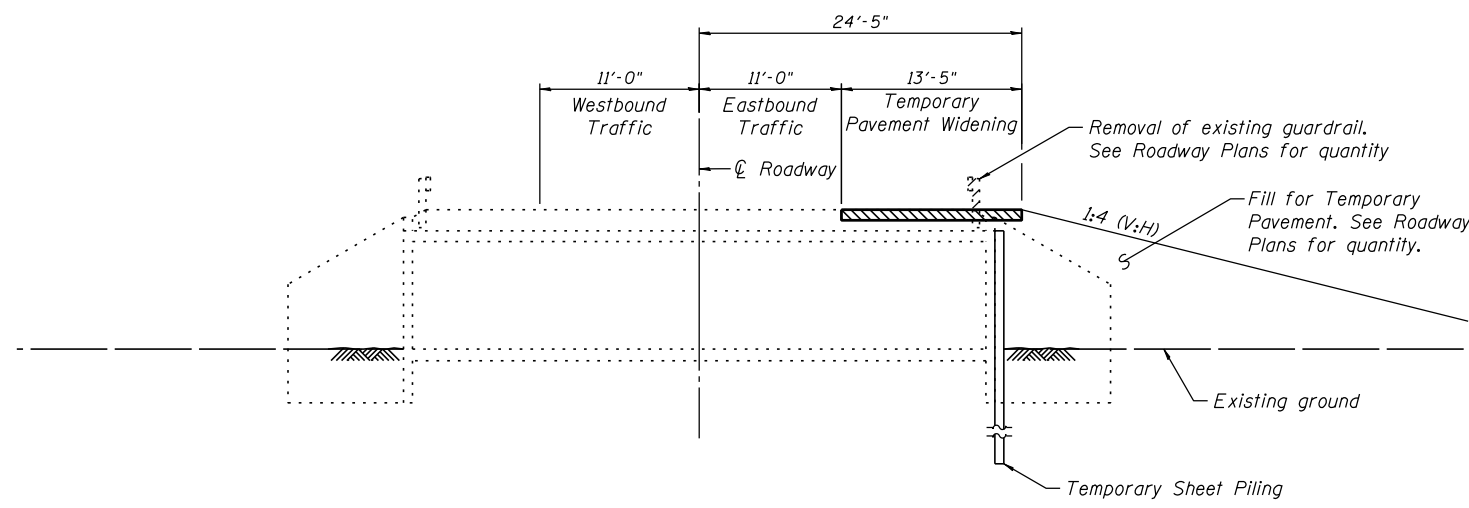
ILLINOIS FED. AID PROJECT



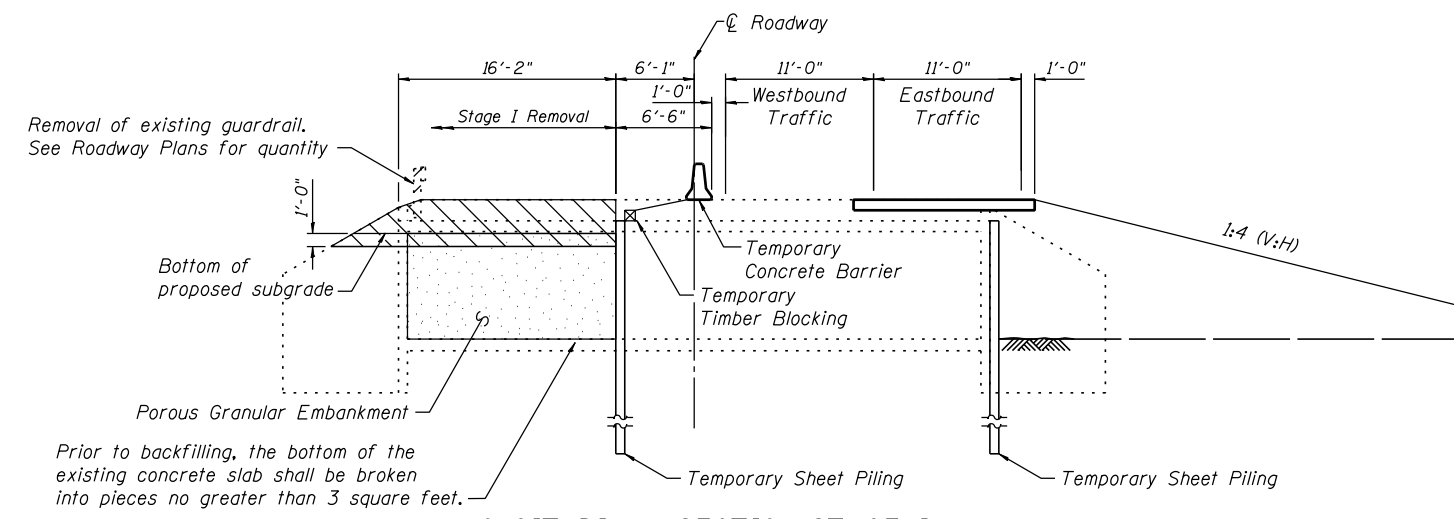
PLAN - PRE-STAGE



PLAN - STAGE I



LONGITUDINAL SECTION PRE-STAGE



LONGITUDINAL SECTION STAGE I

LEGEND

- Temporary Pavement
- Proposed Pavement Construction this Stage
- Removal

Note:
See MOT plans for limits of fill for temporary pavement.
See sheet 3 of 4 for temporary sheet piling details.

FILE NAME = S:\JOL\63300-6399\6346\023\Micro\Sh\Str\Plans\Cattle Pass\0470301-60132-001-CUL.dgn



1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = amanda_j	DESIGNED <i>KJL</i>	REVISED - 5/17/12
		CHECKED <i>RRD</i>	REVISED -
		DRAWN <i>BJF</i>	REVISED -
		CHECKED <i>KJL</i>	REVISED -

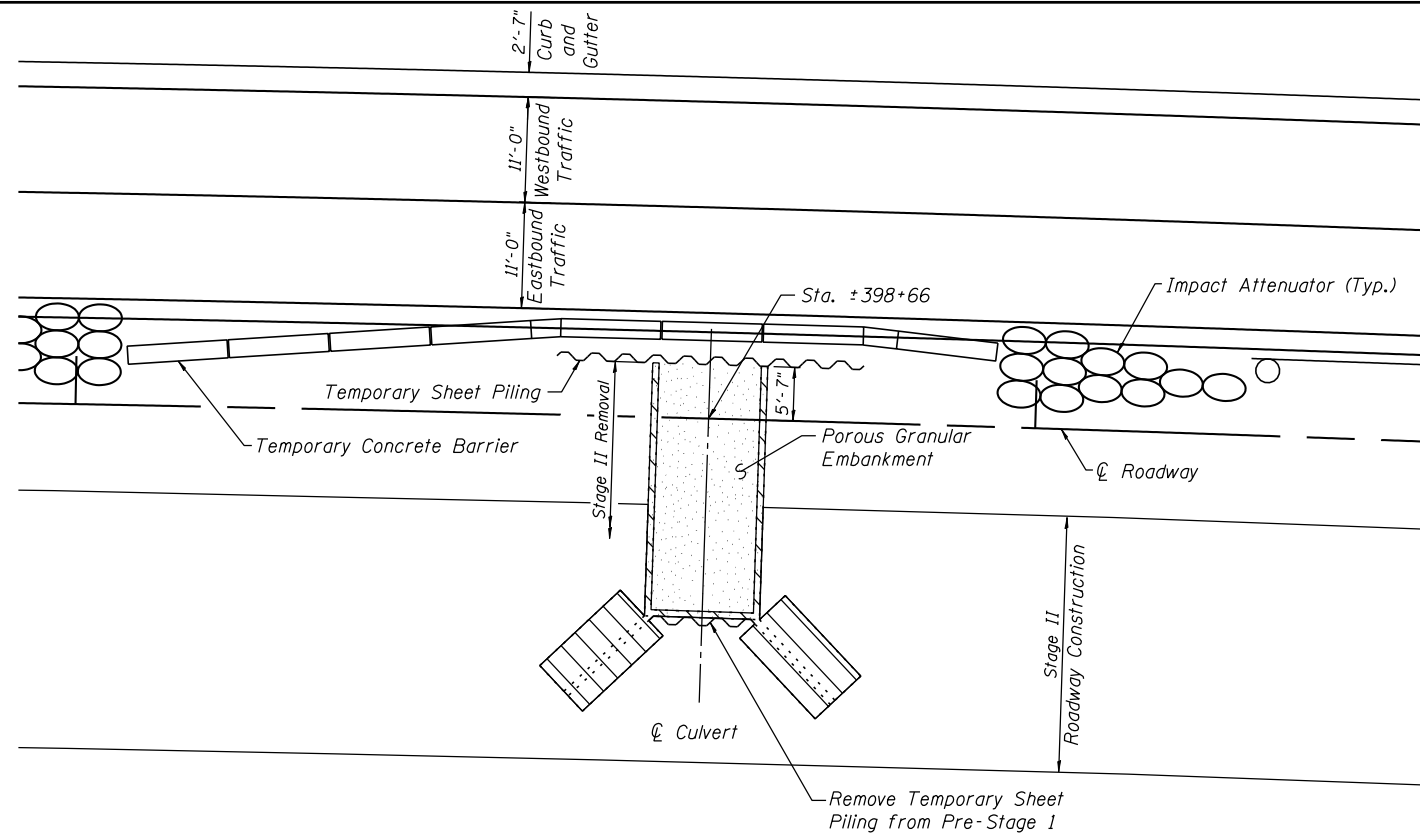
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CATTLE PASS REMOVAL DETAILS
PRE-STAGE & STAGE I**

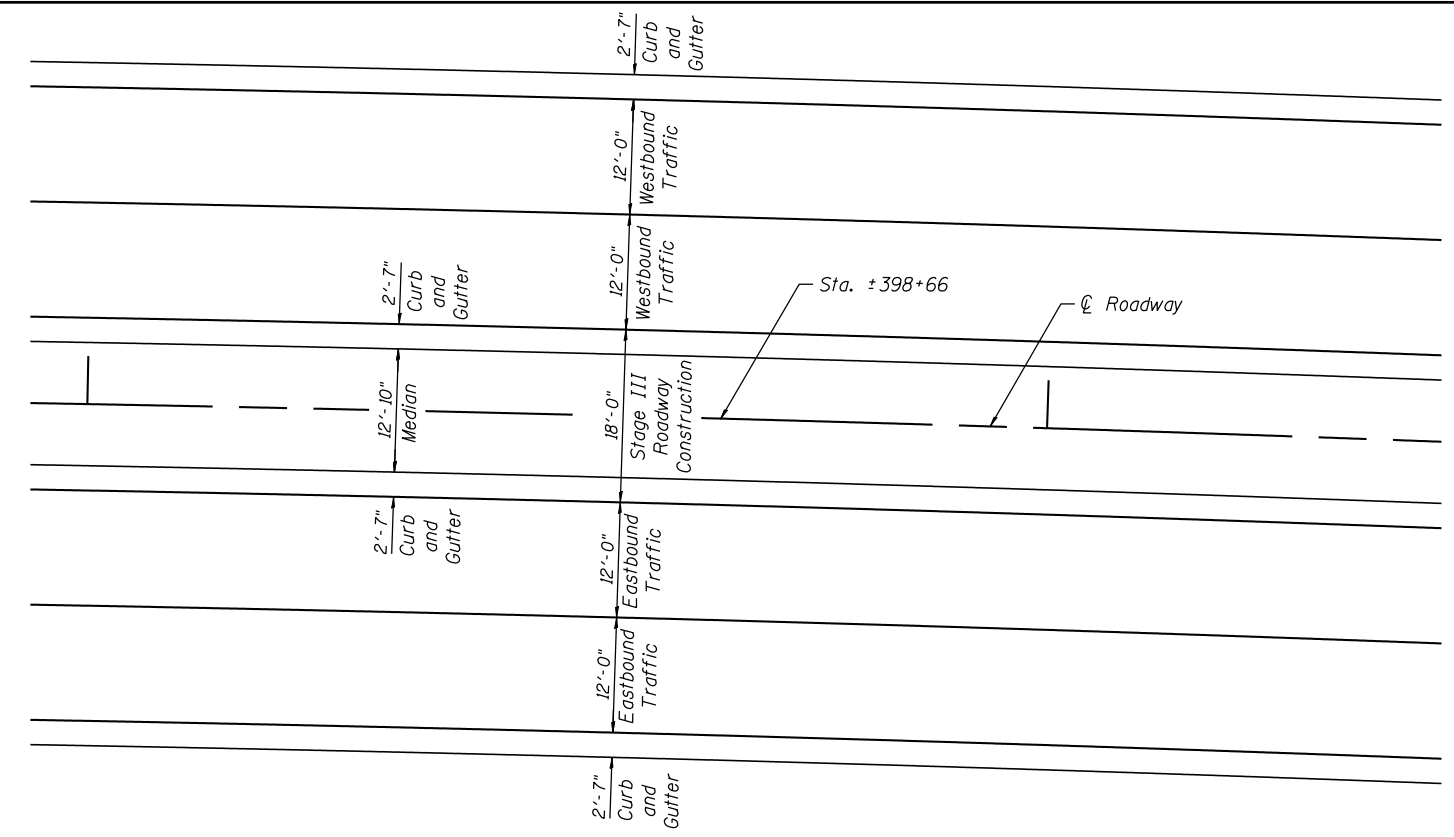
SHEET NO. 1 OF 4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	317
CONTRACT NO. 60132				

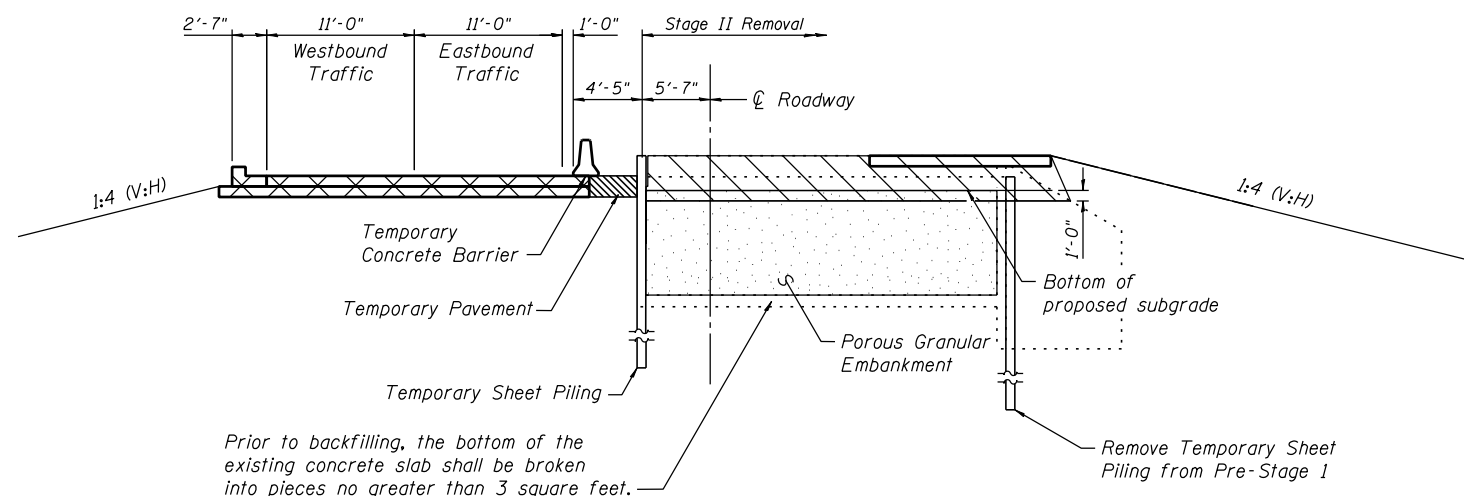
ILLINOIS FED. AID PROJECT



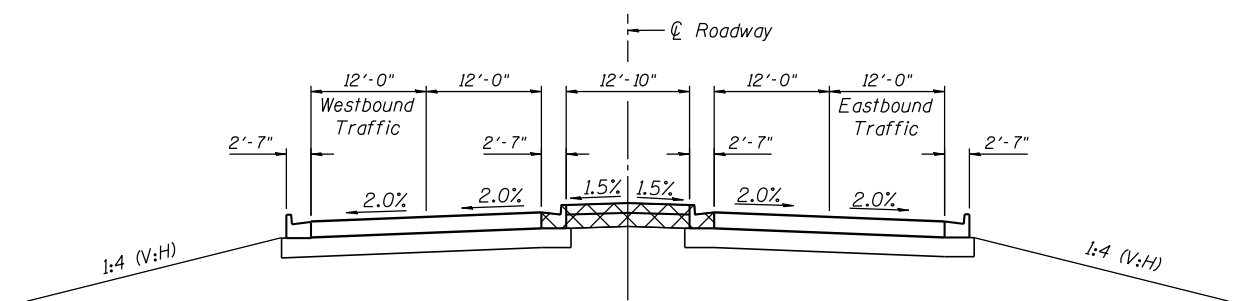
PLAN - STAGE II



PLAN - STAGE III



LONGITUDINAL SECTION STAGE II



LONGITUDINAL SECTION STAGE III

LEGEND

- Temporary Pavement
- Proposed Pavement Construction this Stage
- Removal

FILE NAME = S:\JOL\63300-6399\6346\023\Micros\Sh\Str_Plan\Castle Pass\0470301-60132-002-CUL.dgn



USER NAME = amanda_j	DESIGNED KJL	REVISED -
PLOT SCALE =	CHECKED RRD	REVISED -
PLOT DATE = 6/5/2012	DRAWN BJF	REVISED -
	CHECKED KJL	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CATTLE PASS REMOVAL
STAGE II & III**

SHEET NO. 2 OF 4 SHEETS

F.A.U. RTE. 349	SECTION 11 WRS-3	COUNTY KENDALL	TOTAL SHEETS 527	SHEET NO. 318
CONTRACT NO. 60132				

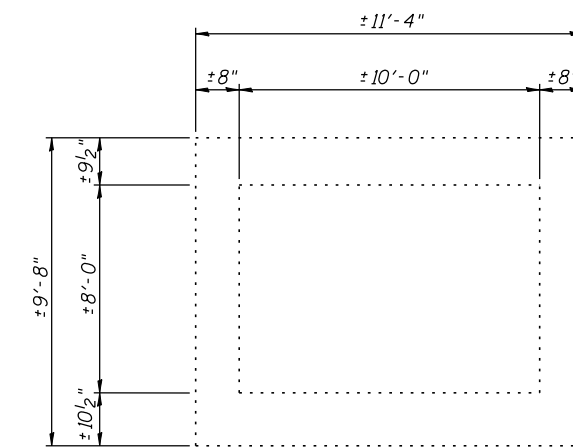
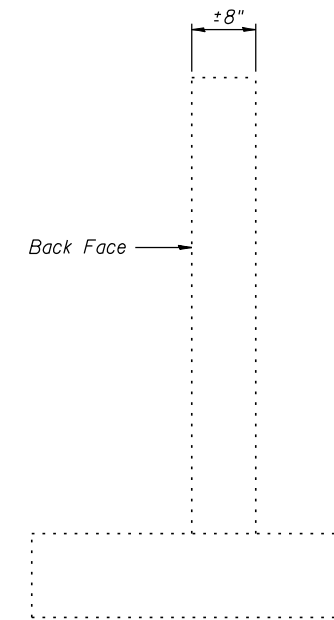
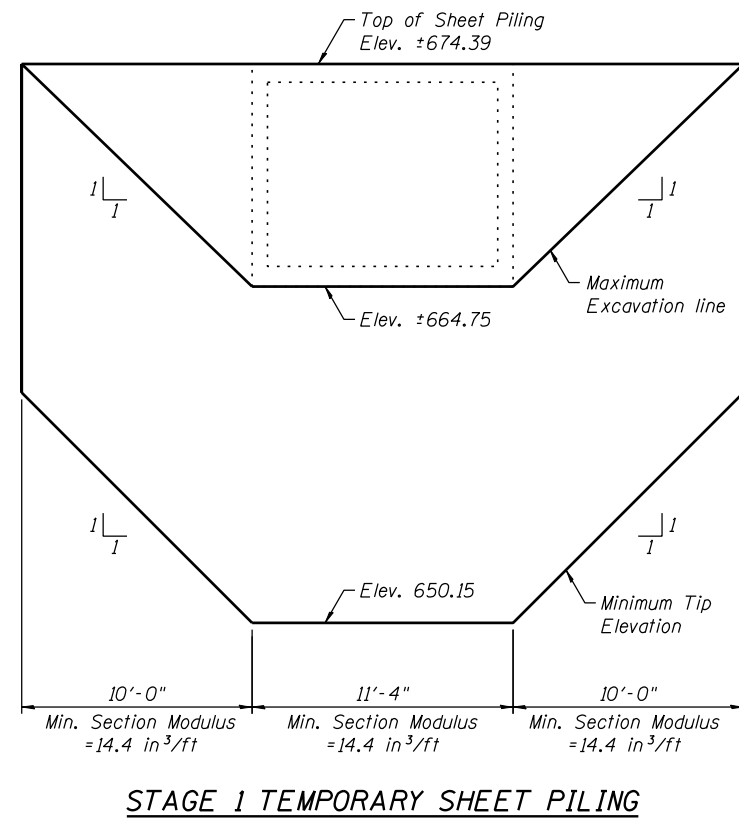
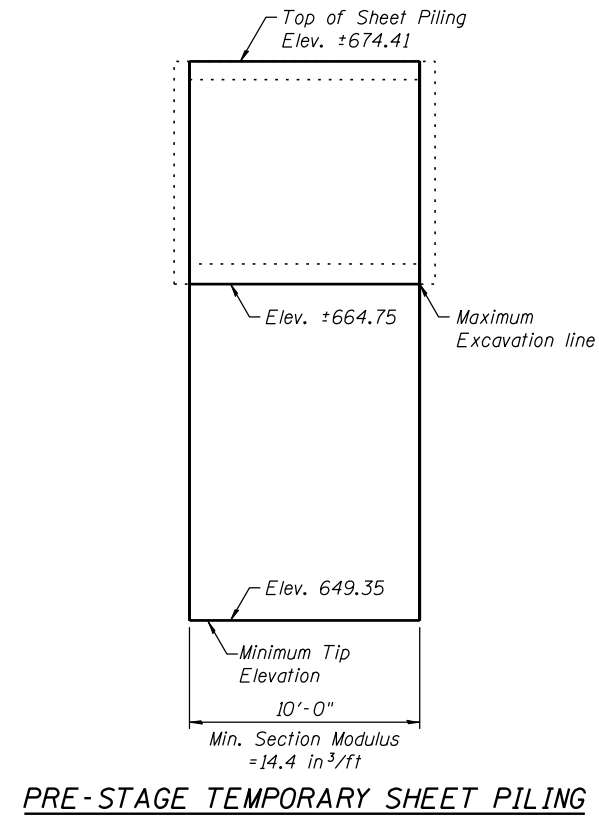
ILLINOIS FED. AID PROJECT

GENERAL NOTES

For quantity of temporary concrete barrier, see Roadway Plans.
 All longitudinal sections are looking east.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work. However, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 See Roadway Plans for proposed pavement construction.
 If the contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
 The contractor shall connect the first sheet to the existing wing wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

BILL OF MATERIAL

ITEM	Unit	TOTAL
Porous Granular Embankment	Cu. Yd.	180
Removal of Existing Structures, No. 2	Each	1
Temporary Sheet Piling	Sq. Ft.	914



FILE NAME = s:\p\16380--6395\6346\023\Micros\Sht\Sr Plans\Cattle Pass\0470301-60132-003-SHEET.DET.dgn

See Pre-Stage plan view for location of borings

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

BORING LOG SB-37
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 666.70 ft
 North: 1840384.94 ft
 East: 991962.64 ft
 Station: 398+55
 Offset: 45 LT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
663.7	Dark brown, SILTY CLAY LOAM to SILTY LOAM --TOPSOIL--	1	X	2	3	1.25	25	664.7		9	X	4	7	NP	7
663.7	Stiff, brown and gray mottled SILTY CLAY (A-6)	2	X	5	3	1.50	29	641.7	Boring terminated at 25.00 ft	10	X	6	13	NP	8
661.2	Loose to medium dense, brown and gray SANDY LOAM and GRAVEL (A-4 to A-2-4) --gray SAND damp at tip--	3	X	2	3	NP	22								
656.7	Medium dense to dense, gray SAND and GRAVEL (A-1-a) --saturated--	4	X	15	7	NP	8								
		5	X	4	7	NP	8								
		6	X	14	16	NP	8								
		7	X	5	7	NP	11								
		8	X	2	6	NP	11								

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	07-18-1995	Complete Drilling	07-18-1995
Drilling Contractor		Drill Rig	
Driller		Checked by	A.Bohac
Drilling Method	Boring provided by IDOT		
While Drilling	10.90 ft	At Completion of Drilling	12.40 ft
Time After Drilling	NA	Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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

BORING LOG SB-38
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 666.50 ft
 North: 1840294.96 ft
 East: 991960.60 ft
 Station: 398+55
 Offset: 45 RT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
664.5	Stiff, black to dark brown SILTY LOAM (A-6) --TOPSOIL--	1	X	5	3	1.50	21	661.0		9	X	4	7	NP	7
664.5	Stiff, brown to brown and gray mottled SILTY CLAY LOAM (A-6(16))	2	X	4	4	1.25	23	658.5		10	X	9	11	NP	7
661.0	Loose, brown and gray SANDY LOAM (A-4) --damp--	3	X	4	3	NP	17	656.5	Medium dense to dense, gray SAND and GRAVEL (A-2-4 to A-1-a) wet at 11 feet	4	X	5	14	NP	9
656.5		5	X	5	12	NP	9								
		6	X	4	15	NP	8								
		7	X	5	12	NP	7								
648.5	Medium dense, gray SAND (A-3) grades to SAND and GRAVEL near tip (A-1-b)	8	X	3	5	NP	13	648.5	Boring terminated at 20.00 ft	20	X	5			

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	07-18-1995	Complete Drilling	07-18-1995
Drilling Contractor		Drill Rig	
Driller		Checked by	A.Bohac
Drilling Method	Boring provided by IDOT		
While Drilling	13.60 ft	At Completion of Drilling	11.40 ft
Time After Drilling	NA	Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

FILE NAME = s:\p\16380--6395\6346\023\Micro\Shr\Plns\Cattle Pass\0470301-60132-004-SBL.dgn



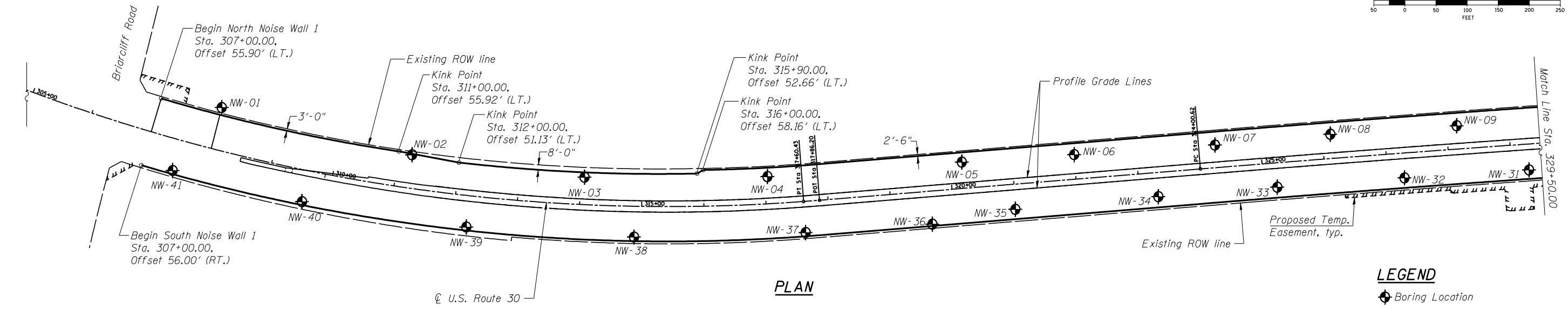
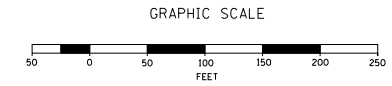
USER NAME = brianf	DESIGNED KJL	REVISED -
	CHECKED RRD	REVISED -
PLOT SCALE =	DRAWN BJF	REVISED -
PLOT DATE = 5/1/2012	CHECKED KJL	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

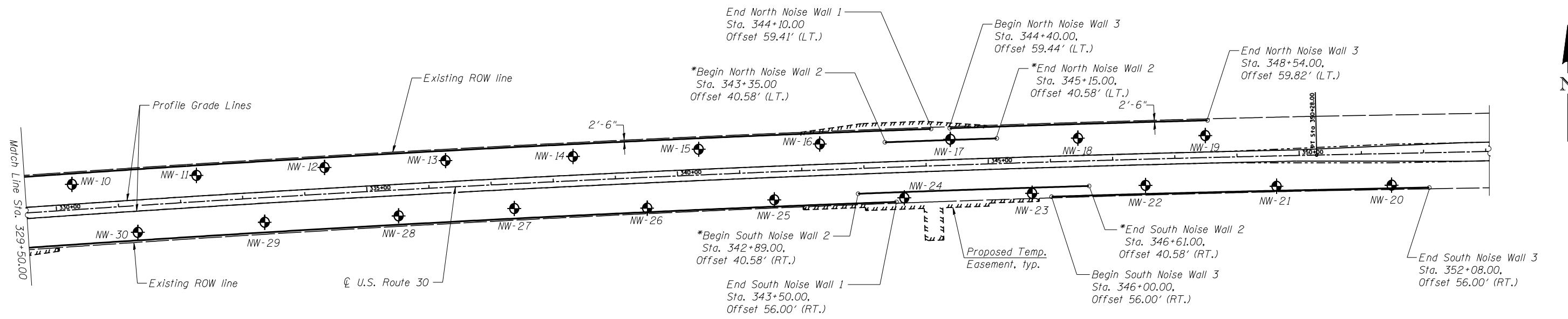
CATTLE PASS REMOVAL
 SOIL BORING LOGS
 SHEET NO. 4 OF 4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	320
CONTRACT NO. 60132				
ILLINOIS FED. AID PROJECT				

Bench Mark: Refer to "Control Point Ties" sheet elsewhere in plans.

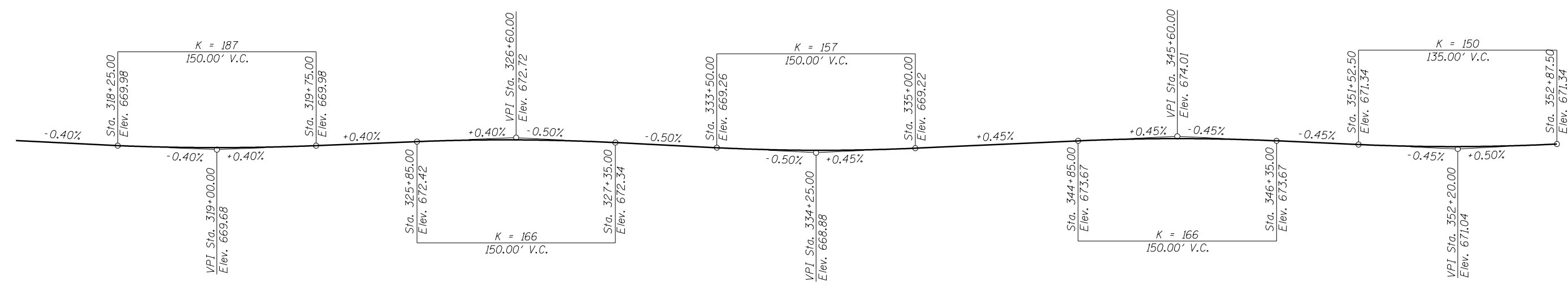


LEGEND
 Boring Location



Note:
 Offsets are measured radially where applicable, from
 U.S. Route 30 and are measured to centerline of wall.

*Space posts to miss proposed culvert end sections.



PROFILE GRADE
 U.S. 30



USER NAME =	DESIGNED - ADB	REVISED -
FILE NAME =	CHECKED - MTH	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
NOISE ABATEMENT WALLS

SHEET NO. S1 OF S19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	321
CONTRACT NO. 60132				

ILLINOIS FED. AID PROJECT

GENERAL NOTES

4" ϕ drainage holes shall be field drilled through the wall panels as required to facilitate surface drainage with a maximum of one hole per panel. Location to be determined in the field by the Engineer. Cost included with Noise Abatement Wall, Ground Mounted.

The Noise Abatement Walls shall have an absorptive panel system on the roadway side and either absorptive or reflective on the residential side, unless noted otherwise. See Special Provision for additional details.

All reinforcement including the welded wire fabric shall be Epoxy Coated. Welded wire fabric shall be according to AASHTO M 55.

The Contractor shall verify and consider the location of existing and proposed drainage structures, overhead and underground utilities prior to wall construction. Any damage to utilities to be repaired at the Contractor's expense.

Type, size and spacing of posts, noise wall panels, drilled shaft size and embedment length, reinforcement details, lifting bars and wall limits including top and bottom of wall shall be determined by Contractor. Cost included with Noise Abatement Wall, Ground Mounted.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Noise Abatement Wall, Ground Mounted	Sq. Ft.	158672

CURVE DATA

(US Route 30)

(Proposed Curve 2_1)	(Proposed Curve 2_6)
$\Delta = 38^{\circ}25'19"$ (LT)	$\Delta = 3^{\circ}30'11"$ (RT)
$D = 1^{\circ}57'19"$	$D = 0^{\circ}08'00"$
$T = 1,021.02'$	$T = 1,314.10'$
$L = 1,964.94'$	$L = 2,627.38'$
$E = 172.79'$	$E = 20.09'$
$R = 2,930.17'$	$R = 42,972.95'$
P.C. = Sta. 297+95.49	P.C. = Sta. 324+00.62
P.T. = Sta. 317+60.43	P.T. = Sta. 350+28.00
P.I. = Sta. 308+16.51	P.I. = Sta. 337+14.72

LOADING

Wind on Ground Mounted Noise Wall = 25 psf

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges
1989 Guide Specifications for Structural Design of Sound Barriers with Interims

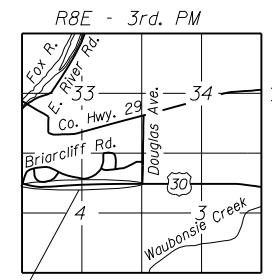
DESIGN STRESSES

FIELD UNITS

$f'c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (Struct. Steel, M270 Grade 50)

PRECAST UNITS

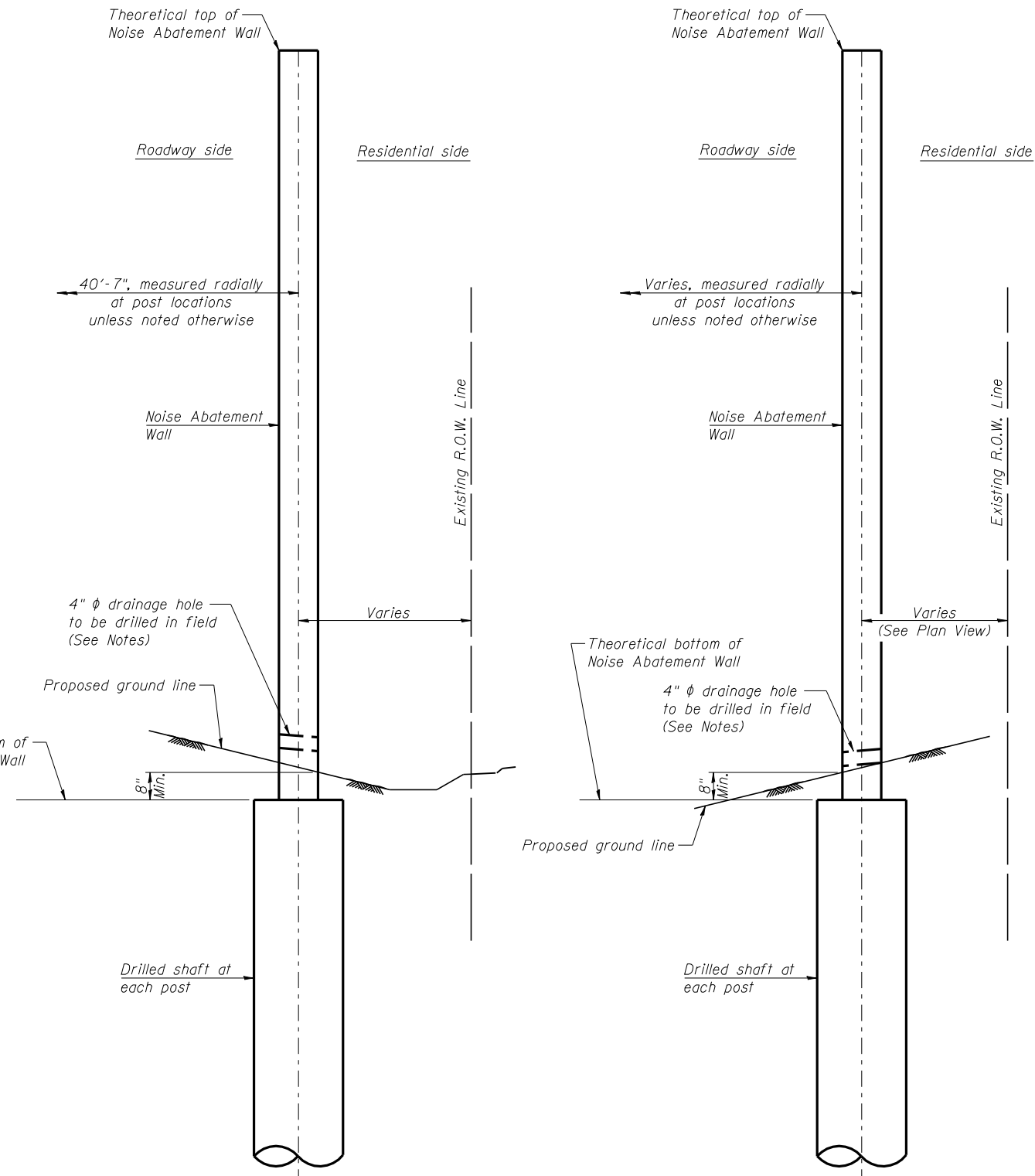
$f'c = 4,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 65,000$ psi (Welded Wire Fabric)



LOCATION SKETCH

INDEX OF SHEETS

- S1. General Plan
- S2. Details
- S3. North Noise Abatement Wall 1
- S4. South Noise Abatement Wall 1
- S5. North and South Noise Abatement Walls 2 & 3
- S6-S19. Boring Logs

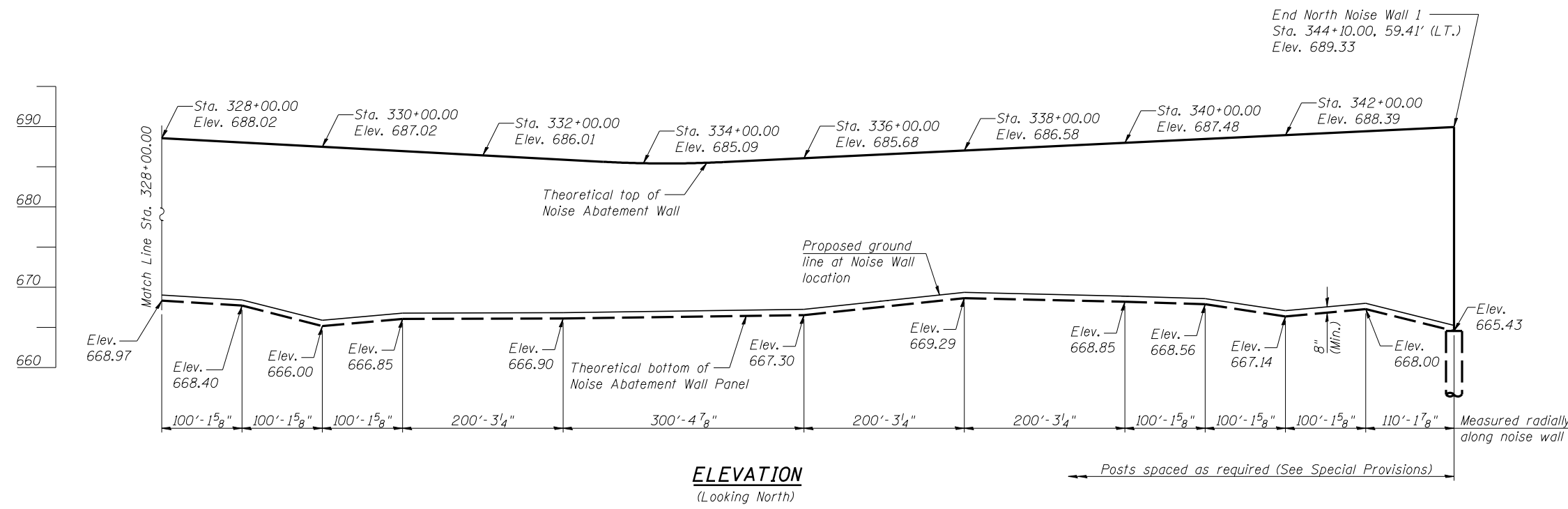
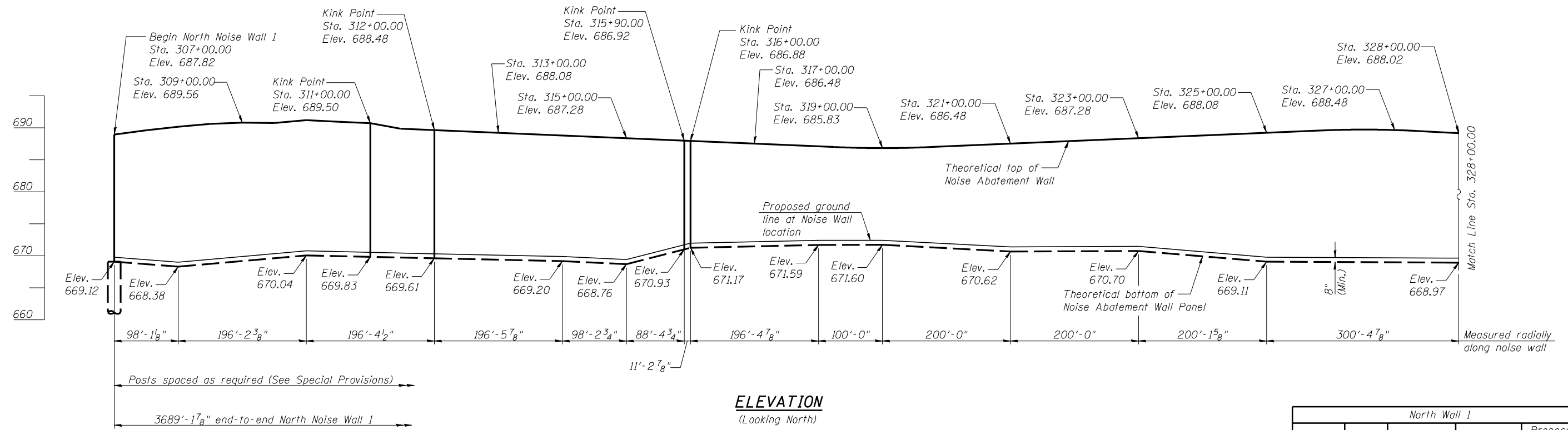


TYPICAL CROSS SECTION

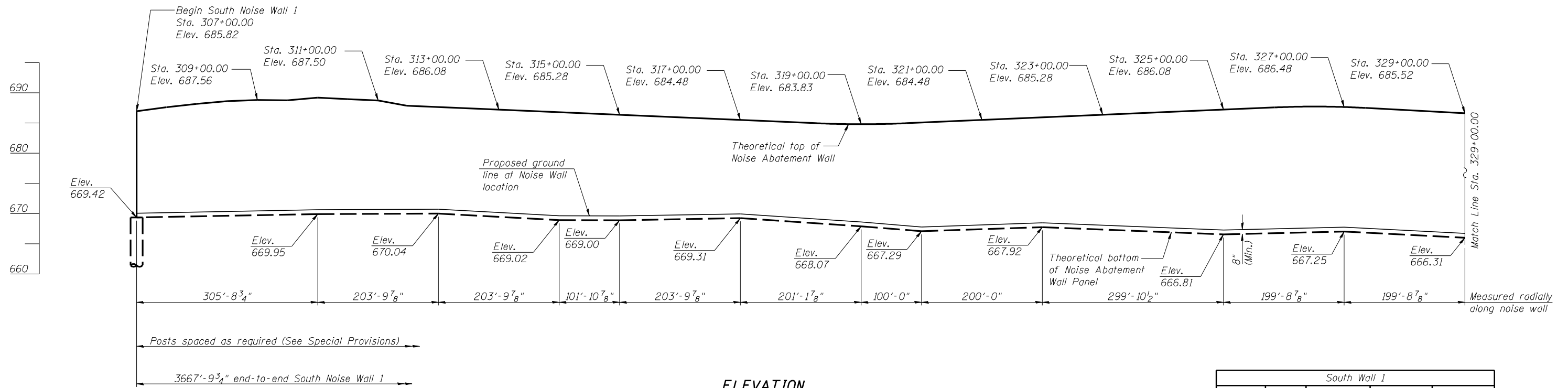
(North Noise Abatement Wall 2 and South Noise Abatement Wall 2)

TYPICAL CROSS SECTION

(North Noise Abatement Walls 1 & 3 and South Noise Abatement Walls 1 & 3)

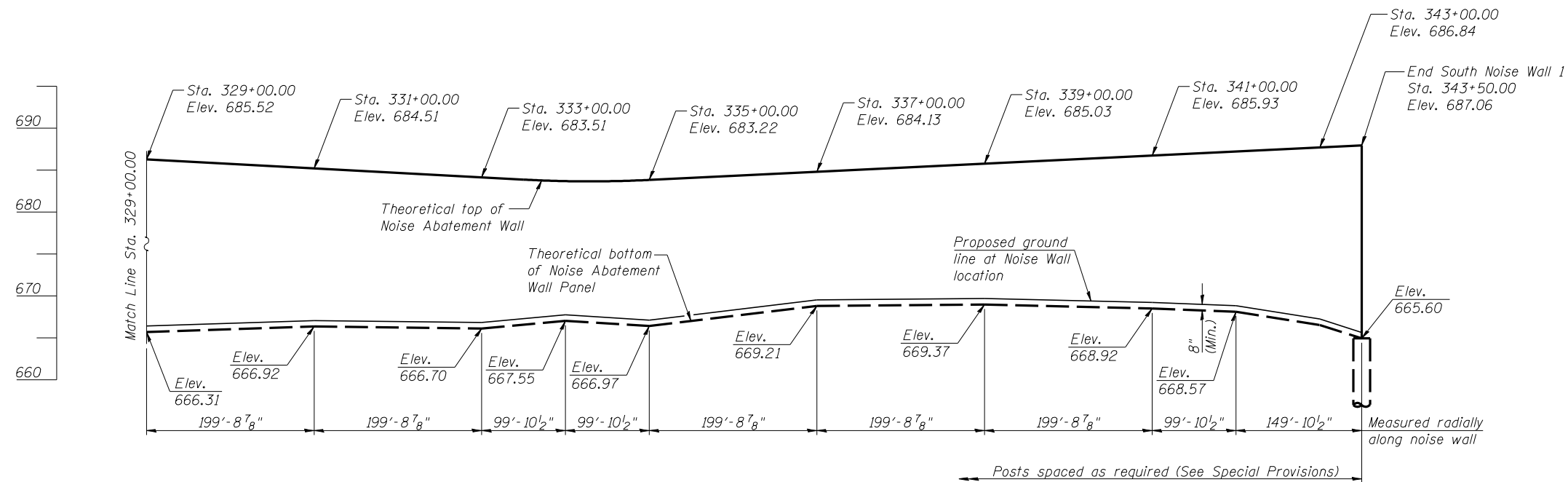


North Wall 1				
Station	Offset Left	Theoretical Top of wall	Theoretical Bottom of wall	Proposed Grade Elev. At front face
307+00	55.90	687.82	669.12	669.79
308+00	55.79	688.96	668.38	669.05
309+00	55.76	689.56	669.21	669.88
310+00	55.80	689.94	670.04	670.71
311+00	55.92	689.50	669.83	670.50
312+00	51.13	688.48	669.61	670.28
313+00	51.41	688.08	669.41	670.08
314+00	51.77	687.68	669.20	669.87
315+00	52.21	687.28	668.76	669.42
315+90	52.67	686.92	670.93	671.60
316+00	58.16	686.88	671.17	671.84
317+00	57.90	686.48	671.09	671.76
318+00	57.78	686.08	671.59	672.25
319+00	57.78	685.83	671.60	672.26
320+00	57.78	686.08	671.11	671.77
321+00	57.77	686.48	670.62	671.28
322+00	57.77	686.88	670.66	671.33
323+00	57.76	687.28	670.70	671.37
324+00	57.71	687.68	669.91	670.57
325+00	57.85	688.08	669.11	669.78
326+00	57.93	688.47	669.07	669.73
327+00	58.01	688.48	669.02	669.69
328+00	58.09	688.02	668.97	669.64
329+00	58.17	687.52	668.40	669.07
330+00	58.26	687.02	666.00	666.67
331+00	58.34	686.51	666.85	667.52
332+00	58.42	686.01	666.88	667.54
333+00	58.50	685.51	666.90	667.57
334+00	58.58	685.09	667.04	667.70
335+00	58.66	685.22	667.17	667.83
336+00	58.74	685.68	667.30	667.96
337+00	58.83	686.13	668.29	668.96
338+00	58.91	686.58	669.29	669.95
339+00	58.99	687.03	669.07	669.73
340+00	59.07	687.48	668.85	669.52
341+00	59.15	687.93	668.56	669.22
342+00	59.23	688.39	667.14	667.80
343+00	59.32	688.84	668.00	668.66
344+00	59.40	689.29	665.66	666.33
344+10	59.41	689.33	665.43	666.09

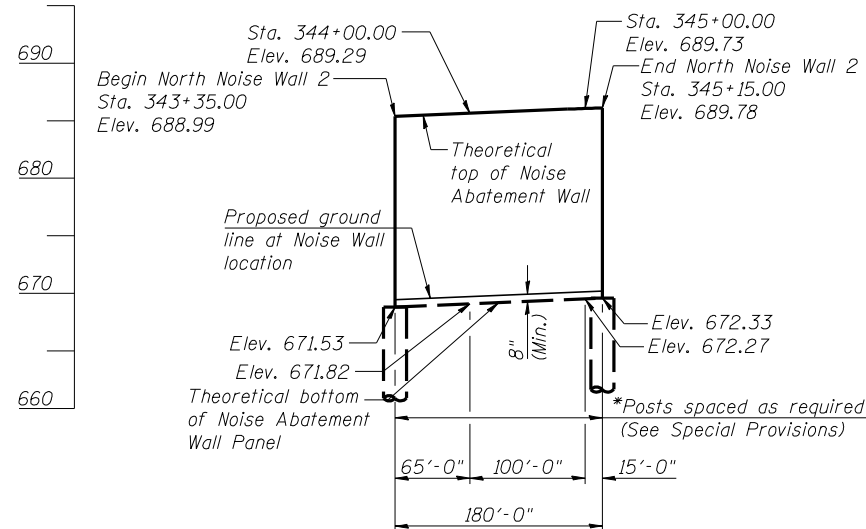


ELEVATION
(Looking North)

South Wall 1				
Station	Offset Right	Theoretical Top of wall	Theoretical Bottom of wall	Proposed Grade Elev. At front face
307+00	56.00	685.82	669.42	670.08
308+00	56.00	686.96	669.60	670.26
309+00	56.00	687.56	669.77	670.44
310+00	56.00	687.94	669.95	670.62
311+00	56.00	687.50	670.00	670.66
312+00	56.00	686.48	670.04	670.70
313+00	56.00	686.08	669.53	670.19
314+00	56.00	685.68	669.02	669.68
315+00	56.00	685.28	669.00	669.66
316+00	56.00	684.88	669.16	669.82
317+00	56.00	684.48	669.31	669.98
318+00	56.00	684.08	668.69	669.36
319+00	56.00	683.83	668.07	668.73
320+00	56.00	684.08	667.29	667.96
321+00	56.00	684.48	667.61	668.27
322+00	56.00	684.88	667.92	668.59
323+00	56.00	685.28	667.55	668.22
324+00	56.00	685.68	667.18	667.85
325+00	56.00	686.08	666.81	667.48
326+00	56.00	686.47	667.03	667.70
327+00	56.00	686.48	667.25	667.92
328+00	56.00	686.02	666.78	667.45
329+00	56.00	685.52	666.31	666.97
330+00	56.00	685.02	666.61	667.28
331+00	56.00	684.51	666.92	667.59
332+00	56.00	684.01	666.81	667.48
333+00	56.00	683.51	666.70	667.37
334+00	56.00	683.09	667.55	668.22
335+00	56.00	683.22	666.97	667.64
336+00	56.00	683.68	668.09	668.75
337+00	56.00	684.13	669.21	669.87
338+00	56.00	684.58	669.29	669.95
339+00	56.00	685.03	669.37	670.03
340+00	56.00	685.48	669.14	669.81
341+00	56.00	685.93	668.92	669.59
342+00	56.00	686.39	668.57	669.23
343+00	56.00	686.84	667.09	667.75
343+50	56.00	687.06	665.60	666.27

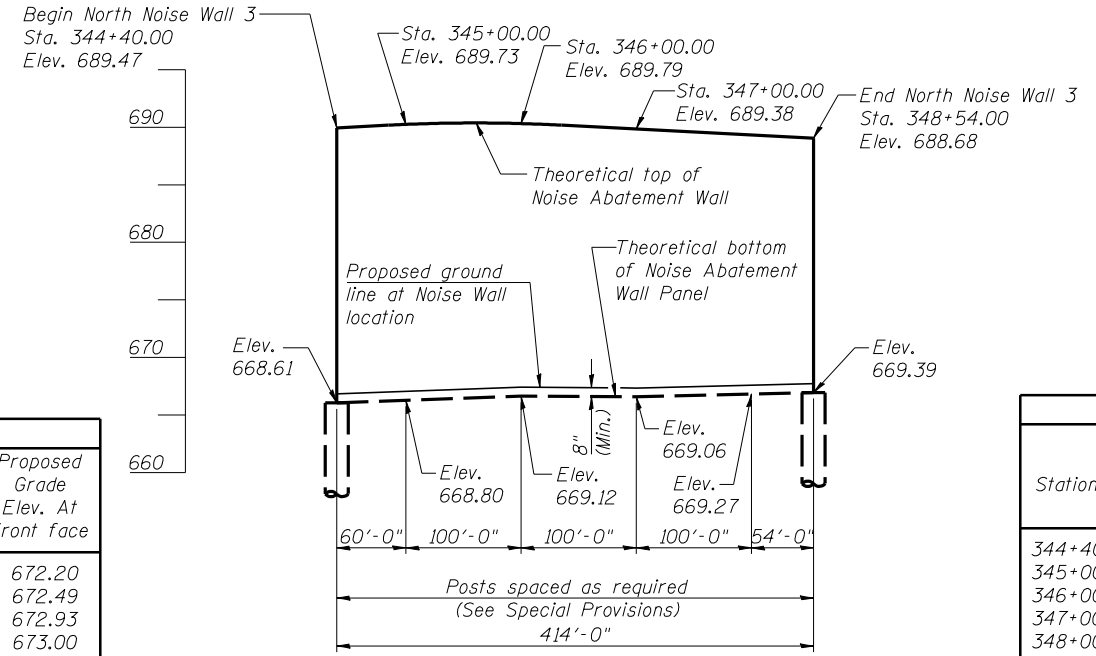


ELEVATION
(Looking North)



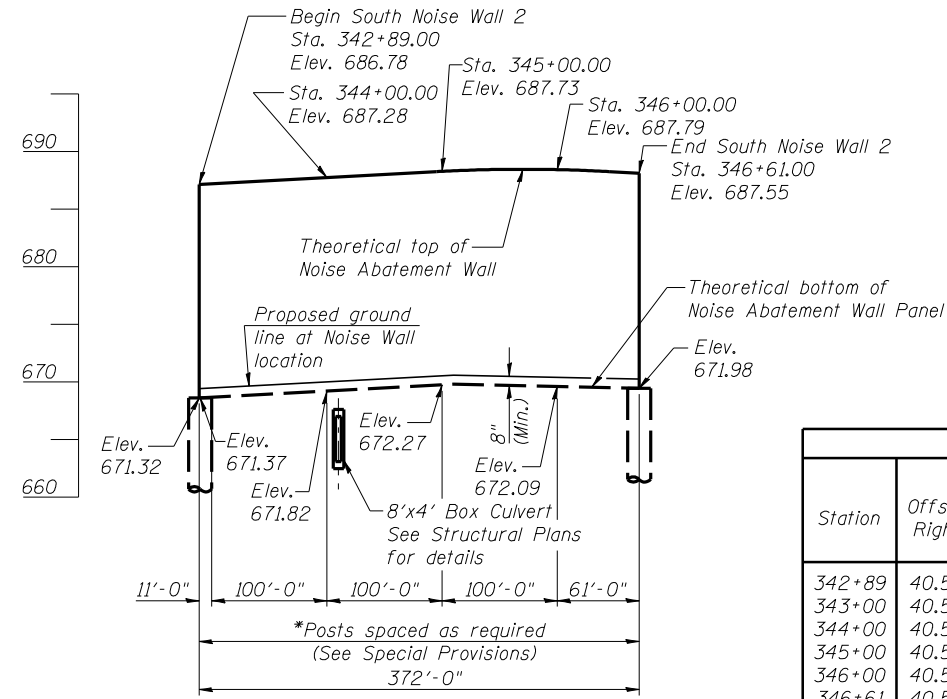
NORTH NOISE ABATEMENT WALL 2 ELEVATION
(Looking North)

North Wall 2				
Station	Offset Left	Theoretical Top of wall	Theoretical Bottom of wall	Proposed Grade Elev. At front face
343+35	40.58	688.99	671.53	672.20
344+00	40.58	689.29	671.82	672.49
345+00	40.58	689.73	672.27	672.93
345+15	40.58	689.78	672.33	673.00



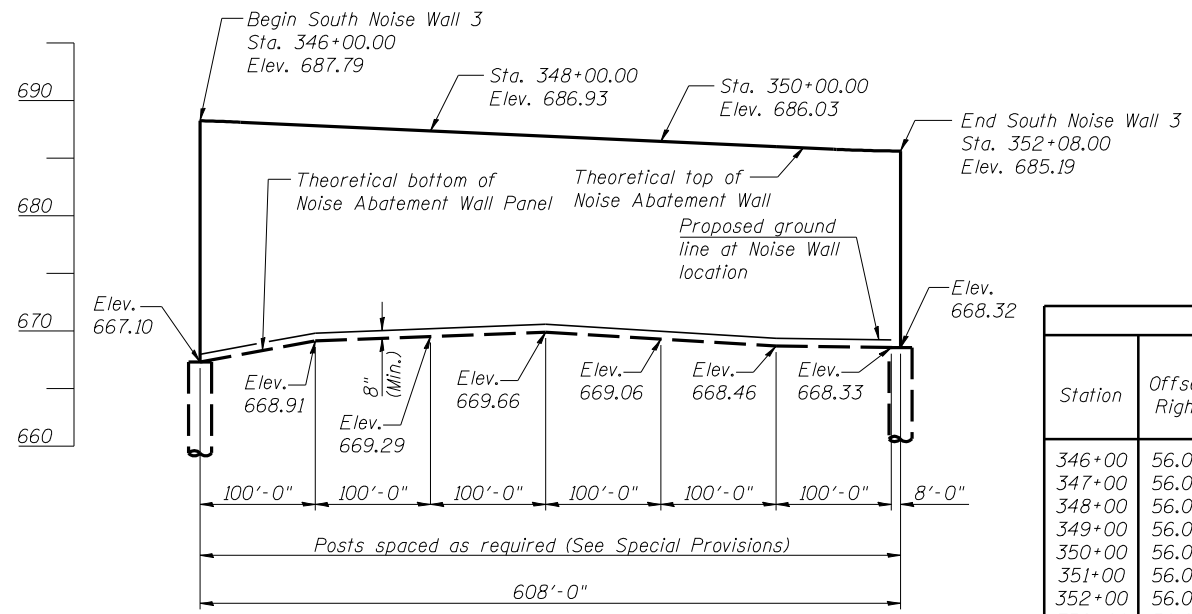
NORTH NOISE ABATEMENT WALL 3 ELEVATION
(Looking North)

North Wall 3				
Station	Offset Left	Theoretical Top of wall	Theoretical Bottom of wall	Proposed Grade Elev. At front face
344+40	59.44	689.47	668.61	669.27
345+00	59.51	689.73	668.80	669.47
346+00	59.60	689.79	669.12	669.78
347+00	59.69	689.38	669.06	669.73
348+00	59.78	688.93	669.27	669.94
348+54	59.82	688.68	669.39	670.05



SOUTH NOISE ABATEMENT WALL 2 ELEVATION
(Looking North)

South Wall 2				
Station	Offset Right	Theoretical Top of wall	Theoretical Bottom of wall	Proposed Grade Elev. At front face
342+89	40.58	686.78	671.32	671.99
343+00	40.58	686.83	671.37	672.04
344+00	40.58	687.28	671.82	672.48
345+00	40.58	687.73	672.27	672.93
346+00	40.58	687.79	672.09	672.76
346+61	40.58	687.55	671.98	672.65



SOUTH NOISE ABATEMENT WALL 3 ELEVATION
(Looking North)

South Wall 3				
Station	Offset Right	Theoretical Top of wall	Theoretical Bottom of wall	Proposed Grade Elev. At front face
346+00	56.00	687.79	667.10	667.77
347+00	56.00	687.38	668.91	669.58
348+00	56.00	686.93	669.29	669.96
349+00	56.00	686.48	669.66	670.33
350+00	56.00	686.03	669.06	669.73
351+00	56.00	685.58	668.46	669.13
352+00	56.00	685.20	668.33	669.00
352+08	56.00	685.19	668.32	668.99

*Space posts to miss proposed culvert end sections.

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

BORING LOG NW-01
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 670.23 ft
 North: 1840214.23 ft
 East: 962927.96 ft
 Station: 308+00.05
 Offset: -67.90

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
689.2	12-inch thick TOPSOIL --TOPSOIL-- Medium stiff to hard, brown CLAY LOAM, trace GRAVEL --FILL--	0	1	8 4 4	4.50	13							
684.7	Very stiff to hard, gray SILTY CLAY, trace GRAVEL	5	2	5 7 8	0.75	41							
		10	3	4 4 7	4.18	18							
		15	4	3 4 7	6.15	16							
		20	5	6 7 10	5.74	21							
		25	6	2 4 7	4.59	23							
		30	7	3 4 7	3.69	22							
		35	8	3 4 8	3.44	20							

GENERAL NOTES
 Begin Drilling: 10-08-2010 Complete Drilling: 10-08-2010
 Drilling Contractor: WTS Drill Rig: ATV.Diedrich 50
 Driller: K&K Logger: K.Mohammed Checked by: C.Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-02
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 670.89 ft
 North: 1840138.39 ft
 East: 963233.84 ft
 Station: 311+21.73
 Offset: -53.77

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
678	72-inch thick, brown SILTY CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown CLAY LOAM, some GRAVEL --FILL--	0	1	10 9 8	3.20	21							
		5	2	5 7 10	1.00	27							
665.4	Very stiff to hard, brown to gray SILTY LOAM to SILTY CLAY LOAM, little GRAVEL	10	3	5 5 9	5.00	15							
		15	4	8 9 11	2.50	17							
		20	5	3 4 5	2.62	20							
		25	6	3 5 7	2.87	21							
		30	7	3 4 5	2.38	21							
		35	8	3 4 7	2.46	22							

GENERAL NOTES
 Begin Drilling: 10-08-2010 Complete Drilling: 10-08-2010
 Drilling Contractor: WTS Drill Rig: ATV.Diedrich 50
 Driller: K&K Logger: K.Mohammed Checked by: C.Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-03
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 670.05 ft
 North: 1840102.25 ft
 East: 963511.56 ft
 Station: 314+06.50
 Offset: -44.05

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
669	74-inch thick, brown SILTY CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown CLAY LOAM, trace GRAVEL	0	1	3 4 6	2.87	18							
		5	2	4 4 4	2.95	28							
		10	3	3 4 8	1.07	18							
662.1	Very stiff to hard, brown to gray SILT LOAM to SILTY CLAY, trace GRAVEL	15	4	3 9 9	4.92	14							
		20	5	7 10 13	5.82	16							
		25	6	4 6 9	5.90	19							
		30	7	4 7 7	3.53	22							
		35	8	5 8 8	3.20	20							

GENERAL NOTES
 Begin Drilling: 10-08-2010 Complete Drilling: 10-08-2010
 Drilling Contractor: WTS Drill Rig: ATV.Diedrich 50
 Driller: K&K Logger: K.Mohammed Checked by: C.Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

(Sheet 1 of 14)



USER NAME =	DESIGNED - ADB	REVISED -
FILE NAME =	CHECKED - MTH	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS
 NOISE ABATEMENT WALL**
 SHEET NO. S6 OF S19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	326
CONTRACT NO. 60132				
ILLINOIS FED. AID PROJECT				

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

BORING LOG NW-04
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 668.21 ft
 North: 1840103.23 ft
 East: 983805.91 ft
 Station: 317+05.47
 Offset: -43.60

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
667.94	86-inch thick TOPSOIL --TOPSOIL-- Stiff to hard, brown and gray SILTY CLAY LOAM to SILTY CLAY, trace GRAVEL	0	1	5 7 10	4.51 B	16							
		5	2	3 6 10	5.08 B	13							
		10	3	5 8 11	6.56 B	19							
		15	4	3 5 8	4.35 B	20							
		20	5	4 7 8	4.10 B	18							
		25	6	3 6 10	1.75 P								
		30	7	2 5 7	2.46 B	20							
		35	8	2 5 8	3.03 B	20							
645.2	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-08-2010 Complete Drilling: 10-08-2010
 Drilling Contractor: WTS Drill Rig: ATV, Diederich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-05
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 668.30 ft
 North: 1840126.52 ft
 East: 984118.73 ft
 Station: 320+20.31
 Offset: -42.24

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
667.86	86-inch thick, brown SILTY CLAY LOAM --TOPSOIL-- Very stiff to hard, brown SILTY CLAY LOAM to SILTY LOAM, little GRAVEL	0	1	6 8 15	2.30 B	15							
		5	2	5 8 10	4.00 P	14							
662.8	Very stiff to hard, brown to gray SILTY CLAY, trace GRAVEL	5	3	6 9 12	6.15 B	19							
		10	4	4 8 11	5.74 S	19							
		15	5	4 7 7	3.44 B	19							
		20	6	6 8 10	2.46 B	19							
		25	7	4 9 12	4.51 B	19							
		30	8	6 12 19	4.59 B	19							
649.6	3-inch thick, fine SAND	20											
645.6	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-08-2010 Complete Drilling: 10-08-2010
 Drilling Contractor: WTS Drill Rig: ATV, Diederich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-06
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 667.19 ft
 North: 1840138.59 ft
 East: 984299.56 ft
 Station: 322+01.53
 Offset: -39.48

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
667.92	92-inch thick, brown SILTY CLAY --TOPSOIL-- Stiff to very stiff, brown CLAY LOAM, trace to little GRAVEL	0	1	5 7 6	2.87 B	24							
		5	2	4 5 5	1.72 B	25							
661.7	Stiff to hard, brown to gray SILTY CLAY, trace GRAVEL	5	3	2 3 4	1.50 P	17							
		10	4	3 3 9	3.12 B	12							
		15	5	10 10 13	4.59 B	16							
		20	6	6 10 11	5.74 B	17							
		25	7	3 3 6	2.05 B	22							
		30	8	2 4 6	1.80 B	21							
647.2	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-08-2010 Complete Drilling: 10-08-2010
 Drilling Contractor: WTS Drill Rig: ATV, Diederich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

(Sheet 2 of 14)



USER NAME =	DESIGNED - ADB	REVISED -
FILE NAME =	CHECKED - MTH	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS
 NOISE ABATEMENT WALL**
 SHEET NO. 57 OF 519 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	327
CONTRACT NO. 60132				
ILLINOIS FED. AID PROJECT				

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

BORING LOG NW-07
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 667.22 ft
 North: 1840153.93 ft
 East: 984526.00 ft
 Station: 324+28.45
 Offset: -36.25

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
667.03	3-inch thick, brown CLAY LOAM Stiff, brown SILTY LOAM, some GRAVEL --FILL--	1	5 6 5	1.75 P									
		2	3 7 4	1.50 P									
651.7	Very stiff to hard, gray SILTY CLAY, trace GRAVEL	3	6 9 7	4.92 B									
		4	4 7 12	8.45 B									
		5	3 8 13	8.53 B									
		6	4 7 10	6.97 B									
		7	3 5 8	4.18 B									
		8	25 31 29	2.50 P									
647.2	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-08-2010 Complete Drilling: 10-08-2010
 Drilling Contractor: WTS Drill Rig: ATV, Diederich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-08
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 666.71 ft
 North: 1840171.28 ft
 East: 984711.75 ft
 Station: 326+14.84
 Offset: -38.88

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
666	3-inch thick CLAY LOAM --TOPSOIL--	1	4 4 4	2.25 P									
653.7	Hard, brown and gray SILTY CLAY, trace GRAVEL	2	3 8 7	5.00 B									
		3	8 10 13	7.38 B									
		4	5 10 12	7.46 B									
		5	6 8 12	4.92 B									
		6	3 6 10	4.59 B									
		7	4 8 14	4.26 B									
648.0	Gray, fine SAND	8	6 11 11	NP									
646.6	Medium dense, gray SILTY LOAM Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-07-2010 Complete Drilling: 10-07-2010
 Drilling Contractor: WTS Drill Rig: ATV, Diederich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-09
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 666.58 ft
 North: 1840184.87 ft
 East: 984915.01 ft
 Station: 328+18.38
 Offset: -37.29

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
666	36-inch thick, brown SILTY CLAY LOAM --TOPSOIL--	1	2 3 4	1.64 B									
	Medium stiff to stiff, brown CLAY LOAM	2	2 3 3	0.82 B									
651.1	Dense GRAVELLY SAND	3	15 18 13	NP									
658.6	Very stiff to hard, gray SILTY CLAY, trace GRAVEL	4	2 7 10	6.48 B									
		5	7 10 16	5.25 B									
		6	5 9 12	5.00 B									
		7	3 6 9	3.12 B									
		8	3 5 8	2.46 B									
646.6	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-07-2010 Complete Drilling: 10-07-2010
 Drilling Contractor: WTS Drill Rig: ATV, Diederich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: 6.00 ft
 At Completion of Drilling: 15.00 ft
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

(Sheet 3 of 14)

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

BORING LOG NW-10
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 666.33 ft
 North: 1840203.16 ft
 East: 985121.74 ft
 Station: 330+25.70
 Offset: -41.13

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
666.33	64-inch thick TOPSOIL --TOPSOIL-- Stiff, brown GRAVELLY CLAY LOAM	1	4	5	3	1.72	666.33						
		2	3	4	10	1.56							
		5											
660.8	Medium dense, brown GRAVELLY SAND	3	10	12	15	NP	660.8						
657.6	Very stiff to hard, gray SILTY CLAY, trace GRAVEL	4	5	7	12		657.6						
		5	6	11	15	4.51							
		6	5	8	10	3.00							
		7	4	4	7	2.48							
		8	4	6	11	2.25							
646.3	Boring terminated at 20.00 ft	20					646.3						

GENERAL NOTES
 Begin Drilling: 10-07-2010 Complete Drilling: 10-07-2010
 Drilling Contractor: WTS Drill Rig: ATV Diederich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: 6.00 ft
 At Completion of Drilling: 7.00 ft
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-11
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 666.76 ft
 North: 1840217.59 ft
 East: 985322.12 ft
 Station: 332+26.41
 Offset: -42.51

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
666.76	63-inch thick, brown SILTY CLAY LOAM --TOPSOIL-- Dense, brown SANDY GRAVEL	1	14	20	22	NP	666.76						
		2	17	18	15	NP							
		5											
661.3	Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace GRAVEL	3	14	8	12	6.56	661.3						
		4	6	6	12	2.50							
		5	5	9	11	5.66							
		6	4	7	10	5.74							
		7	4	6	12	3.94							
		8	5	5	12	NP							
648.0	Medium dense, fine SAND	20					648.0						
646.8	Boring terminated at 20.00 ft	20					646.8						

GENERAL NOTES
 Begin Drilling: 10-07-2010 Complete Drilling: 10-07-2010
 Drilling Contractor: WTS Drill Rig: ATV Diederich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: 14.00 ft
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-12
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 666.95 ft
 North: 1840230.38 ft
 East: 985528.16 ft
 Station: 334+32.66
 Offset: -42.87

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
666.95	73-inch thick, brown SILTY CLAY LOAM --TOPSOIL-- Stiff, brown SILTY CLAY	1	3	4	3	1.39	666.95						
		2	7	21	20	NP							
		5											
661.5	Dense, brown SANDY LOAM, little GRAVEL	3	3	5	8	2.21	661.5						
		4	4	4	10	6.56							
		5	4	9	12	5.90							
		6	4	6	9	4.67							
		7	3	5	8	2.54							
		8	3	5	9	NP							
649.0	Medium dense, fine SAND	20					649.0						
647.0	Boring terminated at 20.00 ft	20					647.0						

GENERAL NOTES
 Begin Drilling: 10-07-2010 Complete Drilling: 10-07-2010
 Drilling Contractor: WTS Drill Rig: ATV Diederich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

(Sheet 4 of 14)

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

BORING LOG NW-13
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 667.09 ft
 North: 1840241.36 ft
 East: 985722.80 ft
 Station: 336+27.43
 Offset: -43.01

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
666.83	8 1/2-inch thick, brown SILTY CLAY LOAM												
	--TOPSOIL--												
	Very stiff, brown CLAY LOAM, trace GRAVEL	1	5	3.28	10								
	--FILL--												
664.1	Very stiff to hard, brown to gray SILTY CLAY, trace GRAVEL	2	6	2.00	14								
		3	7	4.92	20								
		4	4	5.00	20								
		5	3	3.28	23								
		6	4	3.44	24								
		7	2	2.21	23								
		8	3	2.54	22								
647.1	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-07-2010 Complete Drilling: 10-07-2010
 Drilling Contractor: WTS Drill Rig: ATV Diederich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-14
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 668.27 ft
 North: 1840248.00 ft
 East: 985927.93 ft
 Station: 338+32.44
 Offset: -39.19

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
667.0	8-inch thick, brown SILTY CLAY --TOPSOIL--												
	Hard, brown CLAY LOAM	1	4	5.33	14								
	--FILL--												
665.3	Stiff to hard, brown to gray SILTY CLAY LOAM to SILTY CLAY, trace GRAVEL	2	4	5.41	20								
		3	5	5.08	23								
		4	2	4.51	23								
		5	3	2.87	23								
		6	1	2.54	23								
		7	2	1.72	24								
		8	2	1.80	21								
648.3	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-01-2010 Complete Drilling: 10-01-2010
 Drilling Contractor: WTS Drill Rig: ATV Diederich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-15
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 667.79 ft
 North: 1840259.69 ft
 East: 986130.11 ft
 Station: 340+34.77
 Offset: -41.53

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
667.54	8 1/2-inch thick, brown CLAY LOAM --TOPSOIL--												
	Medium stiff to hard, brown to gray SILTY CLAY LOAM to SILTY CLAY, trace GRAVEL	1	3	1.72	28								
		2	2	3.61	16								
		3	6	6.56	16								
		4	2	5.00	22								
		5	2	1.89	25								
		6	2	1.97	25								
		7	2	0.82	26								
		8	1	1.31	27								
		9	7	2.46	23								
645.8	Boring terminated at 22.50 ft	22.50											

GENERAL NOTES
 Begin Drilling: 10-01-2010 Complete Drilling: 10-01-2010
 Drilling Contractor: WTS Drill Rig: ATV Diederich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

(Sheet 5 of 14)

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

BORING LOG NW-16
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 667.35 ft
 North: 1840268.14 ft
 East: 986325.07 ft
 Station: 342+29.74
 Offset: -41.86

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
667.13	13-inch thick, brown SILTY CLAY LOAM --TOPSOIL-- Very stiff, brown CLAY LOAM --FILL--	1	5 6 8	2.05 S	28								
663.9	Medium stiff, brown SANDY CLAY LOAM, trace GRAVEL	2	4 4 4	0.75 P	27								
661.9	Very stiff to hard, brown and gray SILTY CLAY, trace GRAVEL	3	8 10 12	6.50 S	20								
		4	3 9 11	7.46 B	18								
		5	6 7 10	4.51 B	21								
		6	2 5 7	3.28 B	24								
		7	3 4 5	2.38 B	23								
		8	3 4 7	2.38 B	23								
647.4	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-01-2010 Complete Drilling: 10-01-2010
 Drilling Contractor: WTS Drill Rig: ATV Diederich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-17
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 666.96 ft
 North: 1840275.76 ft
 East: 986535.07 ft
 Station: 344+39.68
 Offset: -41.73

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
666.96	12-inch thick, brown SILTY CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown CLAY LOAM, some GRAVEL --FILL--	1	5 6 8	2.25 P	27								
		2	3 3 4	1.25 P	14								
661.5	Very stiff to hard, brown to gray SILTY CLAY, trace GRAVEL	3	5 7 10	6.81 S	21								
		4	4 9 12	7.70 S	17								
		5	5 8 10	5.33 B	21								
		6	2 5 7	3.12 B	22								
		7	4 4 7	2.46 B	23								
		8	2 4 7	2.38 B	23								
647.0	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-01-2010 Complete Drilling: 10-01-2010
 Drilling Contractor: WTS Drill Rig: ATV Diederich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-18
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 669.57 ft
 North: 1840277.53 ft
 East: 986740.38 ft
 Station: 346+44.76
 Offset: -36.93

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
669.57	24-inch thick, brown CLAY LOAM Very stiff, brown SILTY CLAY	1	5 5 6	2.87 B	26								
666.6	Medium stiff to stiff, brown CLAY LOAM, trace GRAVEL	2	4 4 3	1.72 B	20								
		3	12 14 19	0.75 P	14								
661.6	Very stiff to hard, gray SILTY CLAY, trace GRAVEL	4	8 11 15	7.87 S	18								
		5	8 10 10	6.56 S	21								
		6	3 5 7	4.10 B	23								
		7	4 6 8	2.87 B	22								
		8	3 5 7	2.38 B	23								
649.6	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-01-2010 Complete Drilling: 10-01-2010
 Drilling Contractor: WTS Drill Rig: ATV Diederich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

(Sheet 6 of 14)

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

BORING LOG NW-19
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 670.13 ft
 North: 1840281.80 ft
 East: 986945.31 ft
 Station: 348+49.58
 Offset: -35.61

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
669.8	84-inch thick, brown CLAY LOAM --TOPSOIL--												
	Stiff, brown CLAY LOAM to SILTY CLAY LOAM, some GRAVEL		1	4 4 5	1.50	12							
	--FILL--												
			2	2 6 7	1.00	19							
654.6	Medium dense, SANDY LOAM and GRAVEL		3	4 12 14	NP	8							
652.1	Stiff, gray GRAVELLY CLAY LOAM		4	5 6 6	1.75	9							
659.6	Dense, gray SILTY LOAM, trace GRAVEL		5	17 16 20	NP	8							
655.4	Gray SAND		6	5 7 7	3.69	11							
655.4	Very stiff, gray SILTY CLAY, trace GRAVEL		7	5 8 11	2.54	34							
650.1	Boring terminated at 20.00 ft		8	3 6 9	3.36	29							

GENERAL NOTES
 Begin Drilling: 10-01-2010 Complete Drilling: 10-01-2010
 Drilling Contractor: WTS Drill Rig: ATV, Dieckrich 50
 Driller: K&K Logger: K. Mohammed Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: 14.00 ft
 At Completion of Drilling: 17.00 ft
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-20
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 668.92 ft
 North: 1840201.88 ft
 East: 987245.15 ft
 Station: 351+47.56
 Offset: 50.90

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
	12-inch thick, black SILTY CLAY LOAM												
	--TOPSOIL--												
	Soft to very stiff, black and brown CLAY LOAM, trace GRAVEL		1	3 4 5	2.30	26							
	--FILL--												
			2	1 1 2	0.41	27							
653.4	Very stiff to hard, brown to gray SILTY CLAY, trace GRAVEL		3	3 6 8	4.18	22							
			4	4 5 6	3.53	22							
			5	3 5 7	3.28	25							
			6	2 4 5	2.05	23							
			7	2 4 5	2.46	23							
			8	3 4 6	2.30	22							
648.9	Boring terminated at 20.00 ft												

GENERAL NOTES
 Begin Drilling: 11-11-2010 Complete Drilling: 11-11-2010
 Drilling Contractor: WTS Drill Rig: TMR CME B-57
 Driller: R&J Logger: C. Davis Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-21
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 669.81 ft
 North: 1840200.17 ft
 East: 987059.56 ft
 Station: 349+62.16
 Offset: 48.88

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
	16-inch thick, black SILTY CLAY --TOPSOIL--												
658.5	Hard, brown and gray CLAY LOAM, trace GRAVEL		1	3 6 14	4.50	24							
	--FILL--												
	Medium dense, brown GRAVELLY SAND		2	4 8 7	NP	7							
			3	6 7 8	NP	7							
651.3	Stiff to very stiff, gray SILTY CLAY, trace GRAVEL		4	3 3 6	3.44	26							
			5	3 4 5	3.69	22							
			6	2 4 4	1.89	25							
			7	2 3 5	2.21	24							
			8	0 2 6	2.38	22							
649.3	Boring terminated at 20.00 ft												

GENERAL NOTES
 Begin Drilling: 11-11-2010 Complete Drilling: 11-11-2010
 Drilling Contractor: WTS Drill Rig: TMR CME B-57
 Driller: R&J Logger: C. Davis Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

(Sheet 7 of 14)

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

BORING LOG NW-22
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 666.40 ft
 North: 1840201.53 ft
 East: 986849.07 ft
 Station: 347+51.26
 Offset: 42.14

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
667.0	14-inch thick, black SILTY CLAY LOAM												
666.4	--TOPSOIL-- Very stiff, black to brown SILTY CLAY	1	3	5	2.46	15							
	--FILL-- Medium dense, brown GRAVELLY SAND	2	5	7	NP	6							
		3	3	6	NP	8							
		4	4	5	NP	10							
659.1	Very stiff to hard, gray SILTY CLAY TO CLAY, trace GRAVEL	5	2	5	4.02	21							
		6	3	3	3.28	23							
		7	3	5	2.87	22							
		8	3	4	2.54	24							
648.4	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 11-11-2010 Complete Drilling: 11-11-2010
 Drilling Contractor: WTS Drill Rig: TMR CME B-57
 Driller: R&J Logger: C. Davis Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: 6.50 ft
 At Completion of Drilling: 6.00 ft
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-23
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 666.76 ft
 North: 1840188.76 ft
 East: 986666.46 ft
 Station: 345+68.15
 Offset: 49.54

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
666.36	36-inch thick, black LOAM --TOPSOIL--												
	Hard, black and brown CLAY LOAM, little GRAVEL and trace roots	1	6	5	4.50	21							
663.0	Stiff, brown to gray SILTY CLAY LOAM to SILTY LOAM	2	2	2	1.00	28							
660.3	Very stiff to hard, gray SILTY CLAY LOAM, trace to little GRAVEL	3	4	7	4.38	18							
		4	3	5	4.23	21							
		5	3	4	3.00	23							
		6	3	3	2.00	23							
		7	3	3	2.00	23							
		8	2	2	2.70	22							
646.8	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-22-2010 Complete Drilling: 10-22-2010
 Drilling Contractor: WTS Drill Rig: TMR D-50 Turbo
 Driller: K&K Logger: C. Marin Checked by: E. Datz
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-24
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 666.25 ft
 North: 1840181.38 ft
 East: 986460.98 ft
 Station: 343+62.28
 Offset: 49.97

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
666.25	36-inch thick, black LOAM --TOPSOIL--												
	Stiff, dark brown CLAY LOAM, trace GRAVEL	1	4	4	1.75	26							
	--FILL-- Brown, GRAVELLY SANDY LOAM	2	19	20	1.75	23							
659.3	Very stiff to hard, gray SILTY CLAY LOAM, trace GRAVEL	3	4	7	4.88	19							
		4	3	3	4.38	21							
		5	3	4	3.55	21							
		6	2	3	2.70	23							
		7	2	3	2.35	23							
		8	2	3	2.53	26							
646.8	Gray, fine SAND Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-22-2010 Complete Drilling: 10-22-2010
 Drilling Contractor: WTS Drill Rig: TMR D-50 Turbo
 Driller: K&K Logger: C. Marin Checked by: E. Datz
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

(Sheet 8 of 14)



USER NAME =	DESIGNED - ADB	REVISED -
FILE NAME =	CHECKED - MTH	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS
 NOISE ABATEMENT WALL**
 SHEET NO. S13 OF S19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	333
CONTRACT NO. 60132				
ILLINOIS FED. AID PROJECT				

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

BORING LOG NW-25
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 667.52 ft
 North: 1840178.23 ft
 East: 986251.76 ft
 Station: 341+52.86
 Offset: 45.03

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
667.5	24-inch thick, black LOAM --TOPSOIL--												
	Hard, brown CLAY LOAM, little GRAVEL	1	4 6 6	4.5C P	17								
664.5	--FILL--												
	Very stiff to hard, gray SILTY CLAY LOAM, little GRAVEL	2	5 7 10	3.80 B	17								
		3	4 6 9	4.75 B	19								
		4	4 6 7	4.38 B	20								
		5	2 4 5	3.00 B	22								
		6	2 3 5	2.18 B	24								
		7	3 3 5	2.18 B	23								
		8	2 2 5	2.18 B	24								
647.5	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-22-2010 Complete Drilling: 10-22-2010
 Drilling Contractor: WTS Drill Rig: TMR D-50 Turbo
 Driller: K&K Logger: C. Marin Checked by: E. Datz
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-26
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 669.88 ft
 North: 1840164.89 ft
 East: 986047.20 ft
 Station: 339+47.67
 Offset: 49.46

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
669	14-inch thick, black and brown SILTY CLAY												
	--TOPSOIL--												
	Very stiff to hard, brown to gray SILTY CLAY, trace GRAVEL	1	4 6 7	3.44 S	22								
		2	5 6 8	5.41 B	15								
		3	3 6 13	7.63 B	17								
		4	6 10 11	4.92 B	19								
		5	3 4 7	3.20 B	22								
		6	3 3 6	2.38 B	22								
		7	2 4 4	2.38 B	24								
		8	3 4 6	2.71 B	23								
649.9	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 11-11-2010 Complete Drilling: 11-11-2010
 Drilling Contractor: WTS Drill Rig: TMR CME B-57
 Driller: R&J Logger: C. Davis Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-27
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 668.34 ft
 North: 1840164.25 ft
 East: 985833.43 ft
 Station: 337+33.89
 Offset: 39.76

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
668.34	24-inch thick, black LOAM --TOPSOIL--												
	Stiff to hard, brown to gray SILTY CLAY LOAM to SILTY CLAY, trace to little GRAVEL	1	4 5 7	4.5C P	20								
		2	4 6 8	2.70 S	20								
		3	4 8 12	3.80 B	21								
		4	3 4 9	4.23 B	21								
		5	3 4 6	2.35 B	21								
		6	2 3 6	2.35 B	18								
		7	2 4 5	1.85 B	23								
		8	2 4 5	2.00 B	24								
648.3	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-22-2010 Complete Drilling: 10-22-2010
 Drilling Contractor: WTS Drill Rig: TMR D-50 Turbo
 Driller: K&K Logger: C. Marin Checked by: E. Datz
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

(Sheet 9 of 14)

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

BORING LOG NW-28
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 667.13 ft
 North: 1840152.41 ft
 East: 985647.32 ft
 Station: 335+47.23
 Offset: 41.72

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
699.75	75-inch thick, black LOAM --TOPSOIL-- Stiff to very stiff, brown and gray CLAY LOAM, little GRAVEL --FILL--	1	4	5	1.00	25							
		5	2	3	2.35	18							
693.9	Very stiff to hard, gray SILTY CLAY, trace GRAVEL	3	4	6	4.38	20							
		10	4	9	4.65	19							
		15	3	6	4.03	17							
		20	4	5	3.80	22							
659.1	Gray, fine SAND	7	2	4	2.53	21							
649.1	Very stiff, gray SILTY CLAY LOAM, little GRAVEL	8	3	4	2.00	20							
647.1	Boring terminated at 20.00 ft	20											

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	10-22-2010	Complete Drilling	10-22-2010
Drilling Contractor	WTS	Drill Rig	TMR D-50 Turbo
Driller	K&K	Logger	C. Marin
Checked by	E. Datz	Time After Drilling	NA
Drilling Method	3.25" HSA	Depth to Water	NA

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

BORING LOG NW-29
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 666.42 ft
 North: 1840142.10 ft
 East: 985431.86 ft
 Station: 333+31.31
 Offset: 39.58

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
656.05	75-inch thick, black LOAM --TOPSOIL-- Very stiff, brown CLAY LOAM	1	3	3	2.50	27							
653.4	Stiff brown and gray SILTY CLAY	2	1	2	1.20	25							
		5	8	4	1.00	25							
658.4	Brown, GRAVELLY SAND	3	2	5	2.53	12							
657.8	Very stiff, gray SILTY CLAY LOAM, little to some GRAVEL	4	2	5	2.53	12							
655.9	Soft, gray SILTY CLAY LOAM to SILTY LOAM, little to some GRAVEL	5	4	6	1.50	24							
		10	14	15	0.25	25							
		15	7	6	0.25	20							
		20	10	14	0.50	21							
646.4	Boring terminated at 20.00 ft	20											

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	10-22-2010	Complete Drilling	10-22-2010
Drilling Contractor	WTS	Drill Rig	TMR D-50 Turbo
Driller	K&K	Logger	C. Marin
Checked by	E. Datz	Time After Drilling	NA
Drilling Method	3.25" HSA	Depth to Water	10.00 ft

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

BORING LOG NW-30
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 667.12 ft
 North: 1840125.83 ft
 East: 985227.72 ft
 Station: 331+26.34
 Offset: 43.04

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
668.84	75-inch thick, black LOAM --TOPSOIL-- Very stiff, brown CLAY LOAM, trace GRAVEL	1	3	4	2.50	23							
664.1	Medium dense, brown GRAVELLY SANDY LOAM	2	3	8	NP	7							
		5	3	9	NP	9							
		10	2	7	NP	12							
656.6	Stiff to hard, gray SILTY CLAY LOAM, trace to little GRAVEL	3	3	7	4.03	22							
		15	3	5	4.50	18							
		20	3	4	2.70	23							
647.6	Medium dense, gray, fine SAND	8	4	9	1.38	21							
647.1	Boring terminated at 20.00 ft	20											

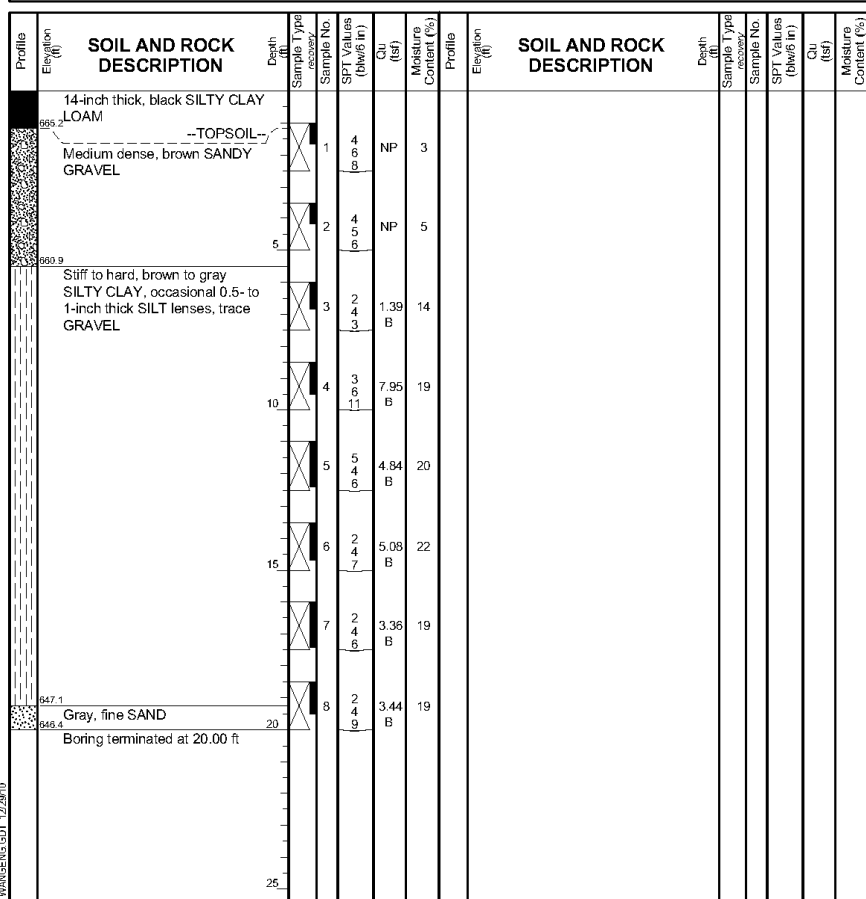
GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	10-22-2010	Complete Drilling	10-22-2010
Drilling Contractor	WTS	Drill Rig	TMR D-50 Turbo
Driller	K&K	Logger	C. Marin
Checked by	E. Datz	Time After Drilling	NA
Drilling Method	3.25" HSA	Depth to Water	8.00 ft

(Sheet 10 of 14)

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

BORING LOG NW-31
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 666.37 ft
 North: 1840113.91 ft
 East: 985031.43 ft
 Station: 329+29.49
 Offset: 41.74



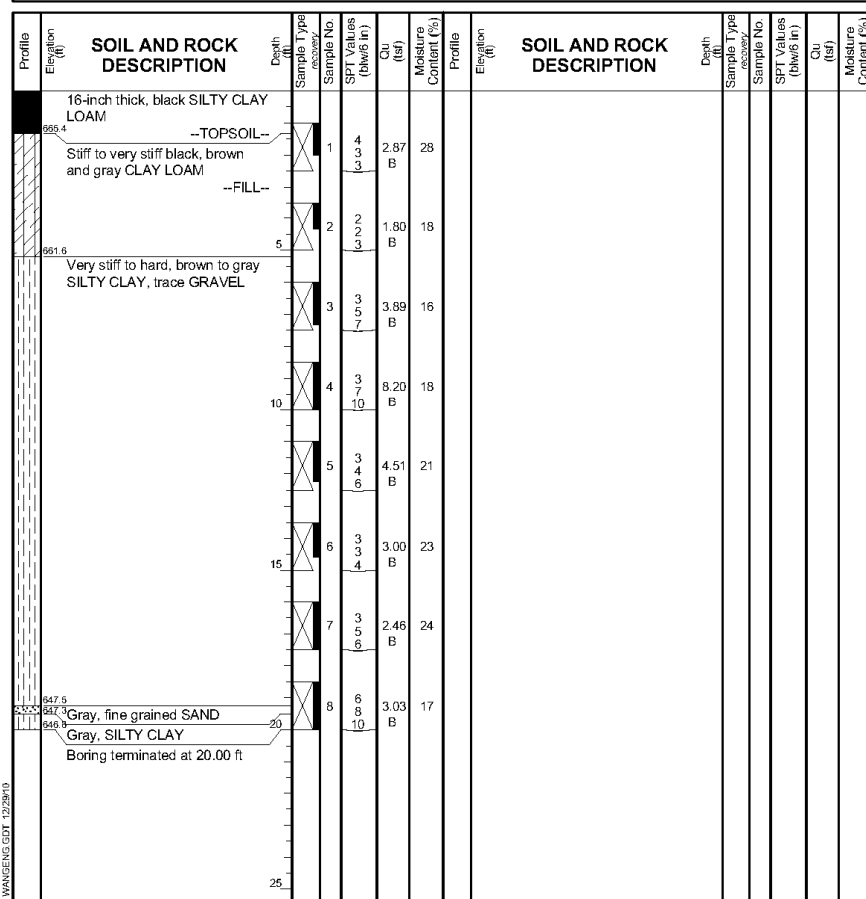
GENERAL NOTES
 Begin Drilling: 10-20-2010 Complete Drilling: 10-20-2010
 Drilling Contractor: WTS Drill Rig: TMR CME B-57
 Driller: K&K Logger: C. Davis Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-32
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 666.77 ft
 North: 1840101.15 ft
 East: 984831.06 ft
 Station: 327+28.52
 Offset: 40.07



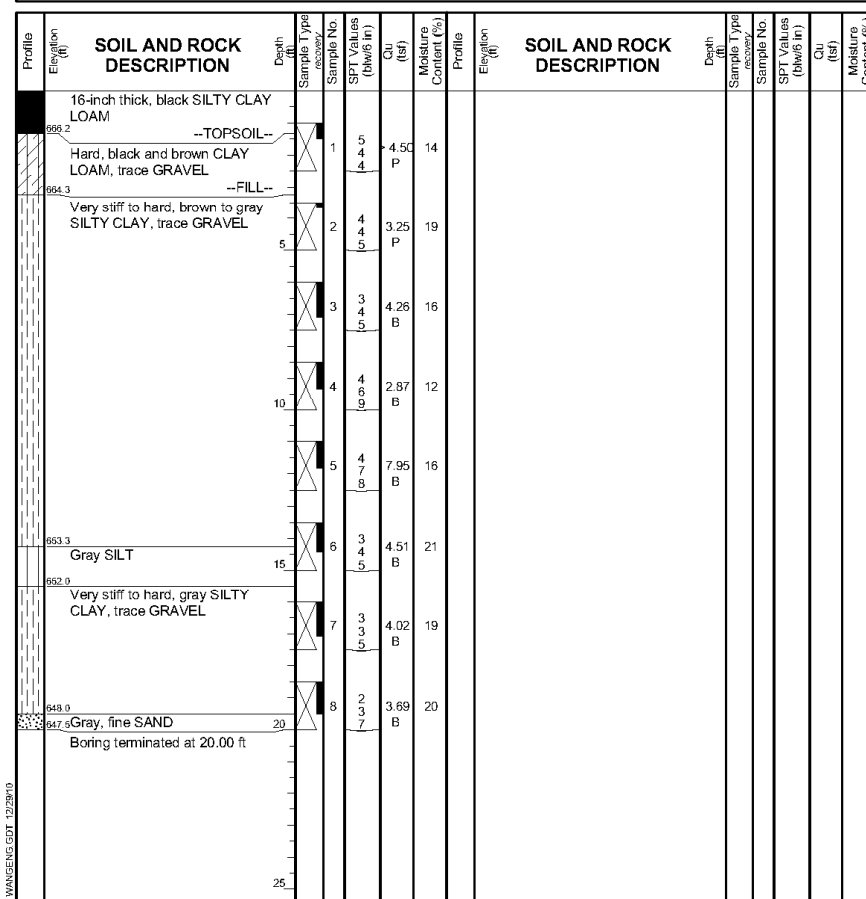
GENERAL NOTES
 Begin Drilling: 10-20-2010 Complete Drilling: 10-20-2010
 Drilling Contractor: WTS Drill Rig: TMR CME B-57
 Driller: K&K Logger: C. Davis Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-33
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 667.51 ft
 North: 1840086.18 ft
 East: 984626.39 ft
 Station: 325+23.10
 Offset: 39.32



GENERAL NOTES
 Begin Drilling: 10-20-2010 Complete Drilling: 10-20-2010
 Drilling Contractor: WTS Drill Rig: TMR CME B-57
 Driller: K&K Logger: C. Davis Checked by: C. Marin
 Drilling Method: 3.25" HSA

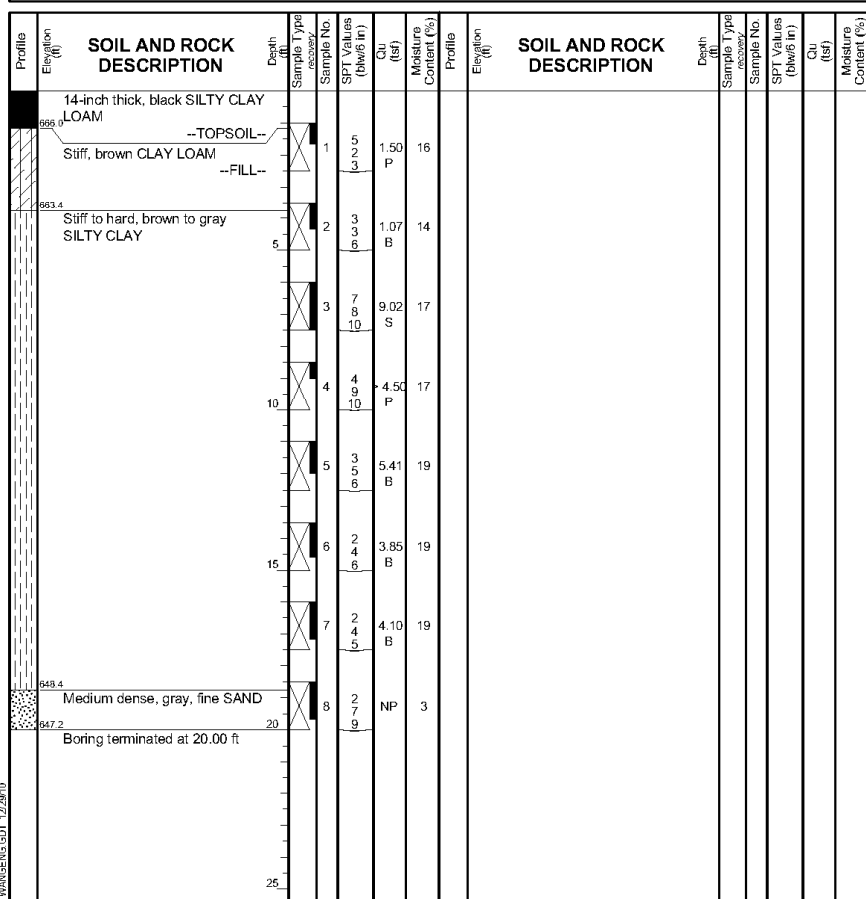
WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

(Sheet 11 of 14)

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

BORING LOG NW-34
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 667.17 ft
 North: 1840070.99 ft
 East: 984435.00 ft
 Station: 323+30.99
 Offset: 38.98



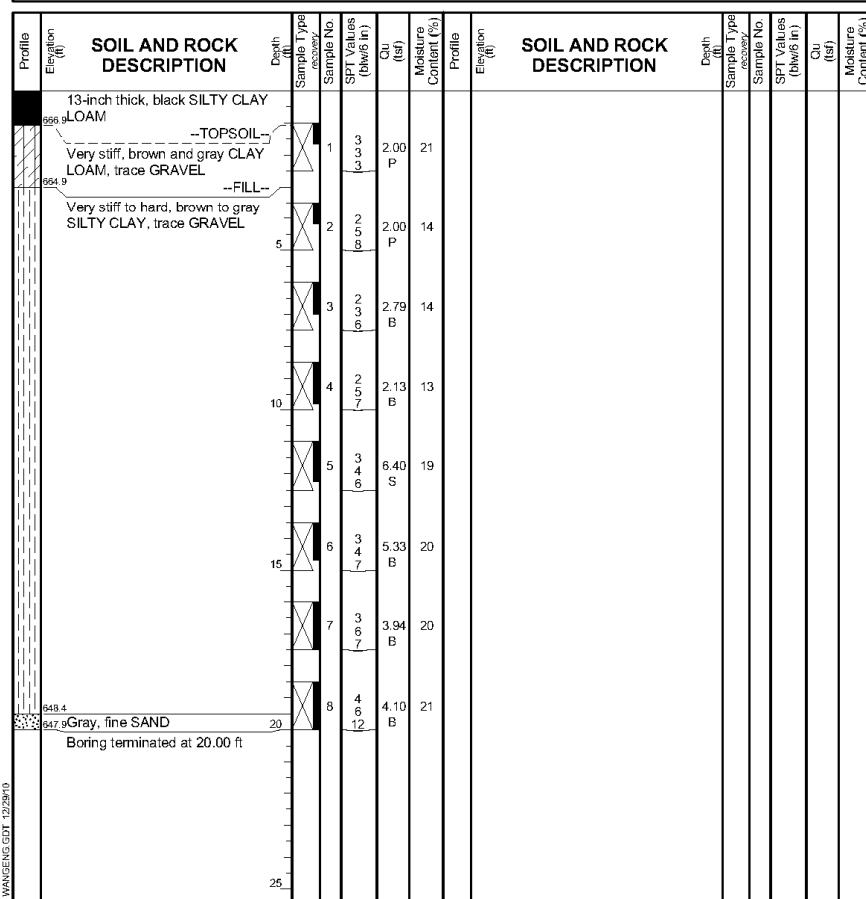
GENERAL NOTES
 Begin Drilling: 10-20-2010 Complete Drilling: 10-20-2010
 Drilling Contractor: WTS Drill Rig: TMR CME B-57
 Driller: K&K Logger: C. Davis Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-35
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 667.93 ft
 North: 1840053.25 ft
 East: 984236.86 ft
 Station: 321+31.86
 Offset: 40.44



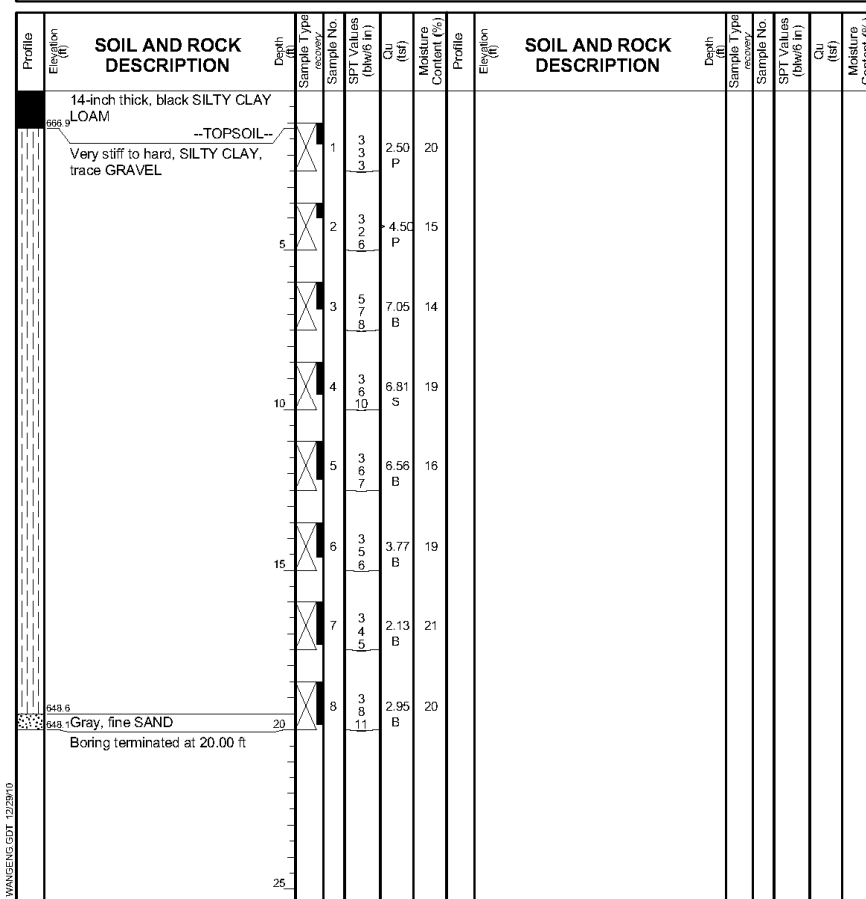
GENERAL NOTES
 Begin Drilling: 10-20-2010 Complete Drilling: 10-20-2010
 Drilling Contractor: WTS Drill Rig: TMR CME B-57
 Driller: K&K Logger: C. Davis Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-36
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 668.06 ft
 North: 1840026.78 ft
 East: 984071.35 ft
 Station: 319+64.92
 Offset: 53.30



GENERAL NOTES
 Begin Drilling: 10-20-2010 Complete Drilling: 10-20-2010
 Drilling Contractor: WTS Drill Rig: TMR CME B-57
 Driller: K&K Logger: C. Davis Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

(Sheet 12 of 14)

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

BORING LOG NW-37
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 666.68 ft
 North: 1840013.31 ft
 East: 983867.48 ft
 Station: 317+60.85
 Offset: 50.16

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
667.7	12-inch thick, black SILTY LOAM												
	--TOPSOIL--	1	6	4.50	25								
	Very stiff to hard, black, brown and gray SILTY CLAY, trace GRAVEL												
	--FILL--												
664.4	Wet SANDY GRAVEL	2	4	2.00	25								
653.2	Very stiff to hard, brown and gray, SILTY CLAY, trace GRAVEL	3	5	4.50	21								
		4	4	4.50	19								
		5	5	4.50	21								
		6	3	3.75	21								
		7	3	2.25	22								
		8	3	3.25	20								
648.7	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-12-2010 Complete Drilling: 10-12-2010
 Drilling Contractor: WTS Drill Rig: ATV D-50 Turbo
 Driller: K&K Logger: C. Davis Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-38
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 669.57 ft
 North: 1840006.10 ft
 East: 983592.81 ft
 Station: 314+90.69
 Offset: 49.48

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
668.6	12-inch thick SILTY LOAM												
	--TOPSOIL--	1	4	2.00	31								
	Very stiff, black, brown and gray CLAY LOAM												
665.8	Very stiff to hard, brown, SILTY CLAY, trace GRAVEL	2	3	2.00	29								
		3	3	4.50	16								
		4	3	4.50	14								
		5	10	2.50	24								
	--HARD DRILLING AT 10.5'--												
		6	3	4.25	22								
		7	2	2.00	22								
		8	2	2.00	23								
649.6	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-12-2010 Complete Drilling: 10-12-2010
 Drilling Contractor: WTS Drill Rig: ATV D-50 Turbo
 Driller: K&K Logger: C. Davis Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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

BORING LOG NW-39
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 671.37 ft
 North: 1840022.16 ft
 East: 983321.88 ft
 Station: 312+23.74
 Offset: 50.51

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Cu (tsf)	Moisture Content (%)
670.4	12-inch thick, black SILTY LOAM												
	--TOPSOIL--	1	5	2.00	27								
	Very stiff, black, brown and gray CLAY LOAM												
	--FILL--												
667.6	Medium dense, brown SILTY LOAM	2	5	NP	18								
655.9	GRAVEL	3	5	4.00	17								
654.3	Hard, brown to gray SILTY CLAY, trace GRAVEL	4	3	4.50	15								
		5	6	4.50	14								
		6	3	4.50	19								
		7	4	3.00	23								
		8	2	2.25	23								
651.4	Boring terminated at 20.00 ft	20											

GENERAL NOTES
 Begin Drilling: 10-12-2010 Complete Drilling: 10-12-2010
 Drilling Contractor: WTS Drill Rig: ATV D-50 Turbo
 Driller: K&K Logger: C. Davis Checked by: C. Marin
 Drilling Method: 3.25" HSA

WATER LEVEL DATA
 While Drilling: 6.50 ft
 At Completion of Drilling: 14.00 ft
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

(Sheet 13 of 14)

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

BORING LOG NW-40
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 669.69 ft
 North: 1840062.64 ft
 East: 983058.14 ft
 Station: 309+61.34
 Offset: 50.77

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
689.7	12-inch thick SILTY LOAM --TOPSOIL-- Very stiff to hard, black, brown and gray CLAY LOAM, trace GRAVEL --FILL--	0	1	4 5 8	3.00	27							
		5	2	5 8 10	4.25	22							
694.2	Stiff to hard, brown to gray SILTY CLAY, trace GRAVEL	8	3	8 9 13	4.50	14							
		10	4	4 7 8	4.00	13							
		15	5	3 6 8	3.50	20							
		15	6	2 4 6	3.00	22							
		17	7	2 3 4	1.50	22							
		20	8	3 5 8	3.75	21							
649.7	Boring terminated at 20.00 ft	20											

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	10-12-2010	Complete Drilling	10-12-2010
Drilling Contractor	WTS	Drill Rig	ATV D-50 Turbo
Driller	K&K	Logger	C. Davis
Checked by	C. Martin	Time After Drilling	NA
Drilling Method	3.25" HSA	Depth to Water	NA

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

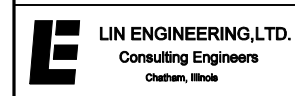
BORING LOG NW-41
 WEI Job No.: 195-05-01
 Client: **Strand Associates, Inc.**
 Project: **US Route 30 from Briarcliff Road to US Route 34**
 Location: **Kendall County, IL**

Datum: NGVD
 Elevation: 668.01 ft
 North: 1840112.76 ft
 East: 982849.77 ft
 Station: 307+50.60
 Offset: 50.34

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
667.0	12-inch thick, black SILTY CLAY LOAM --TOPSOIL-- Stiff, brownish gray SILTY CLAY	0	1	10 13 16	1.00	22							
		5	2	14 15 17	1.00	16							
663.3	SANDY GRAVEL Stiff to hard, gray SILTY CLAY, trace to some GRAVEL	8	3	8 9 13	4.50	14							
		10	4	4 7 8	4.25	14							
		15	5	3 3 4	2.75	24							
		15	6	3 3 3	1.00	27							
		17	7	2 2 2	1.00	26							
		20	8	4 4 4	1.00	20							
648.0	Boring terminated at 20.00 ft	20											

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	10-12-2010	Complete Drilling	10-12-2010
Drilling Contractor	WTS	Drill Rig	ATV D-50 Turbo
Driller	K&K	Logger	C. Davis
Checked by	C. Martin	Time After Drilling	NA
Drilling Method	3.25" HSA	Depth to Water	NA

(Sheet 14 of 14)



USER NAME =	DESIGNED - ADB	REVISED -
FILE NAME =	CHECKED - MTH	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

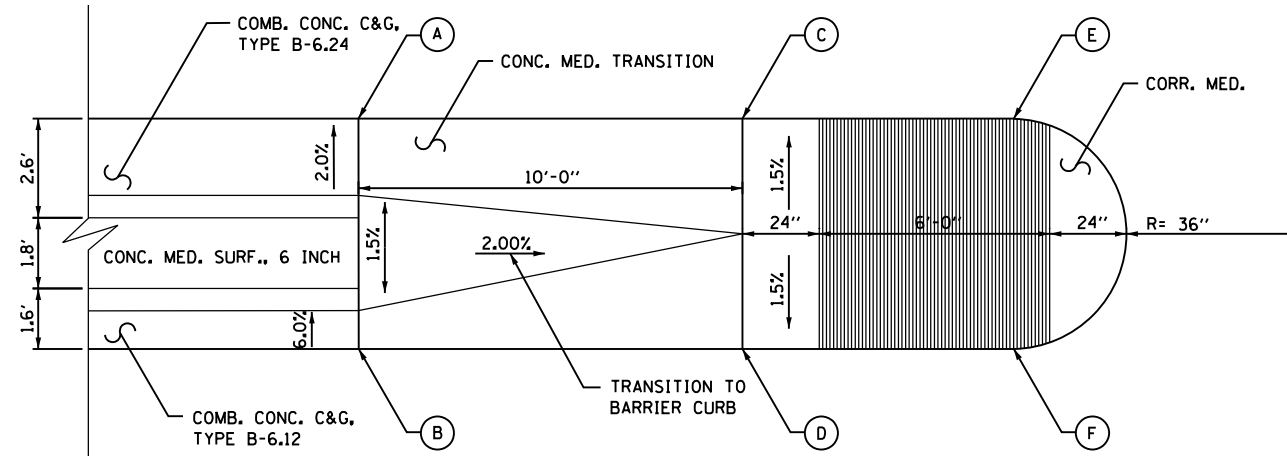
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS
 NOISE ABATEMENT WALL**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	339
CONTRACT NO. 60132				

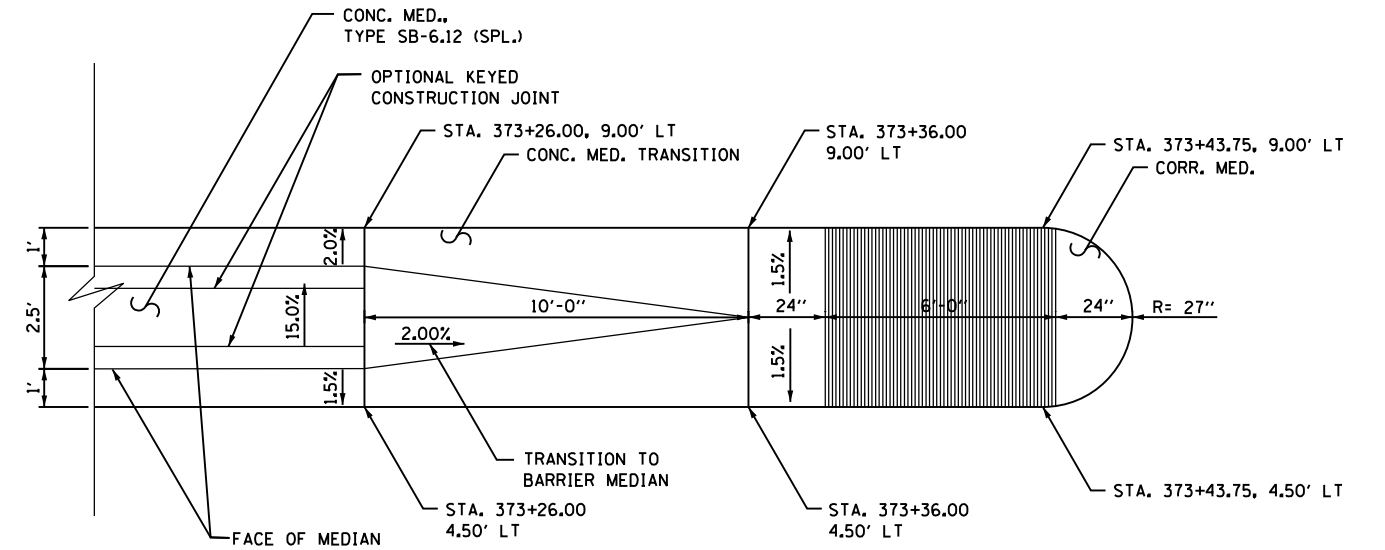
SHEET NO. S19 OF S19 SHEETS

ILLINOIS FED. AID PROJECT

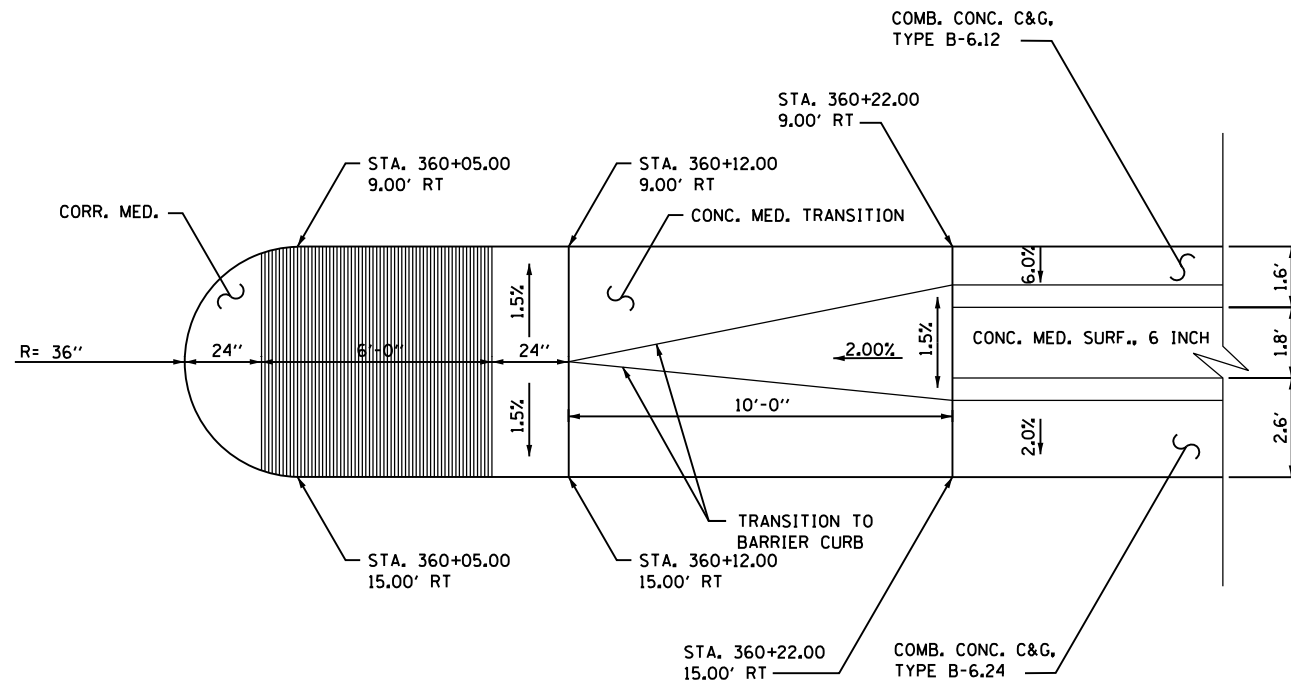


INTERSECTION WEST LEG MEDIANS @ DUAL LEFT TURN LANES ON US ROUTE 30
NOT TO SCALE

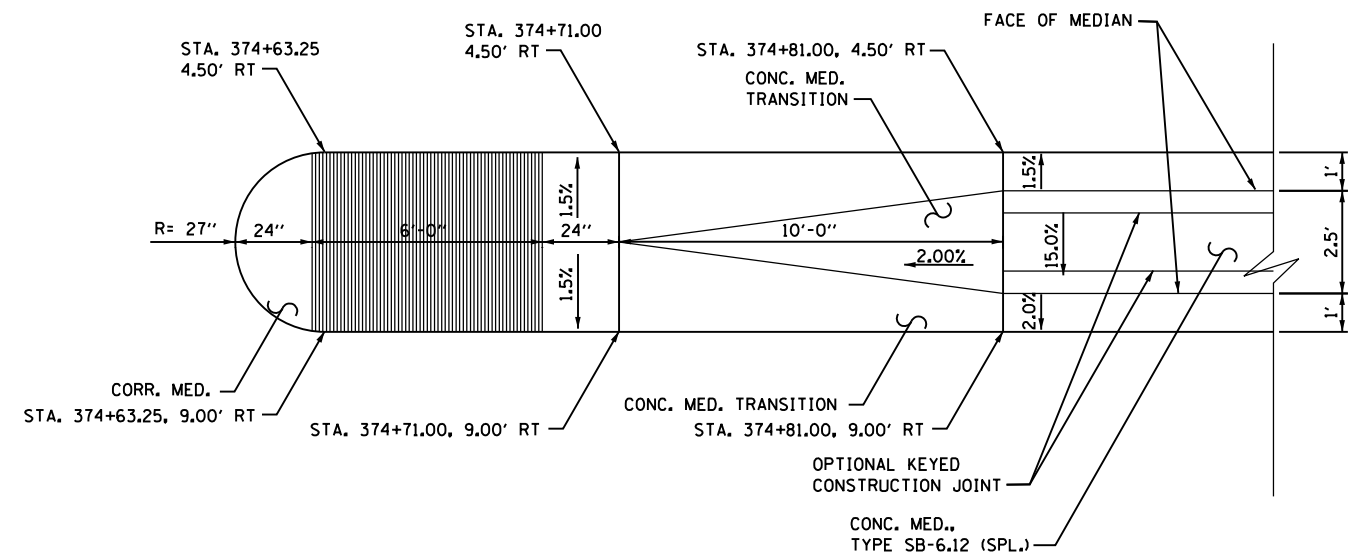
MEDIAN DIMENSION INFORMATION					
RANGE - 358+33.00 TO 358+53.00			RANGE - 433+61.00 TO 433+81.00		
LOCATION	STATION	OFFSET	LOCATION	STATION	OFFSET
A	358+33.00	15.00 LT	A	433+61.00	12.47 LT
B	358+33.00	9.00 LT	B	433+61.00	6.47 LT
C	358+43.00	15.00 LT	C	433+71.00	12.55 LT
D	358+43.00	9.00 LT	D	433+71.00	6.55 LT
E	358+50.00	15.00 LT	E	433+78.00	12.61 LT
F	358+50.00	9.00 LT	F	433+78.00	6.61 LT



INTERSECTION WEST LEG MEDIAN @ SINGLE LEFT TURN LANES ON US ROUTE 30
NOT TO SCALE



INTERSECTION EAST LEG MEDIANS @ DUAL LEFT TURN LANES ON US ROUTE 30
NOT TO SCALE



INTERSECTION EAST LEG MEDIAN @ SINGLE LEFT TURN LANES ON US ROUTE 30
NOT TO SCALE

FILE NAME = s:\p1\6300-6395\6346\023\micro\sh1\018132-sh1-detailed.dgn



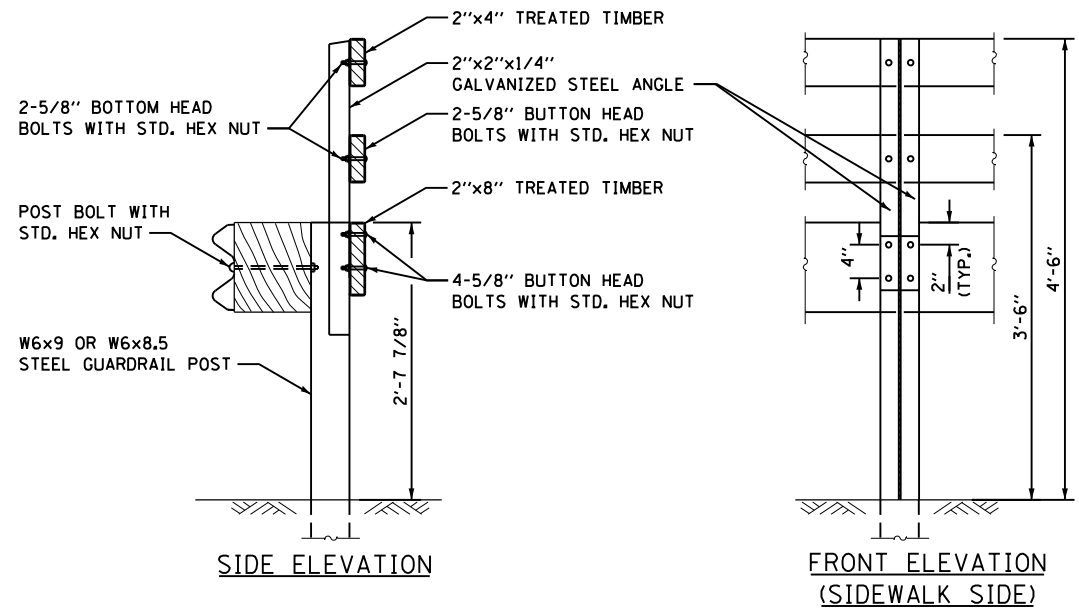
USER NAME = amandaj	DESIGNED MAG	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN B.J.F.	REVISED -
PLOT DATE = 4/26/2012	CHECKED S.J.N.	REVISED -
	DATE 3/31/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	340
CONTRACT NO. 60132				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTE: PRESERVATIVE TREATMENT AND FASTENING HARDWARE SHALL BE PER ARTICLE 1007.12 OF THE STANDARD SPECIFICATIONS.

RUB RAIL DETAIL

FILE NAME = s:\p\6300-6395\6346\023\micro\sh\0160132-sh\detail.dgn

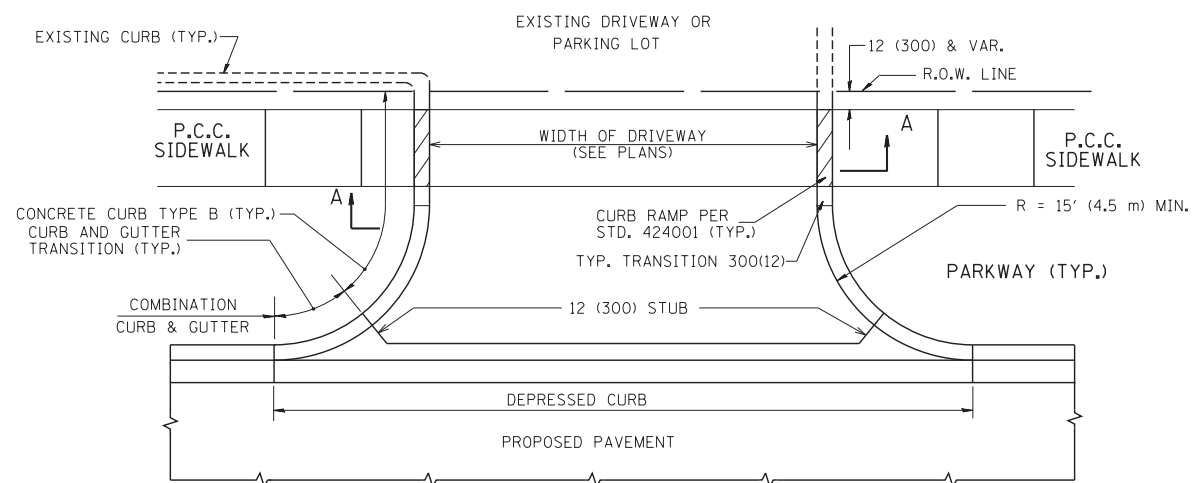


1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = amanda.j	DESIGNED MAG	REVISED -
	PLOT SCALE = 100.0000' / in.	DRAWN BJF	REVISED -
	CHECKED SJN	DATE 3/31/10	REVISED -
	PLOT DATE = 4/26/2012		

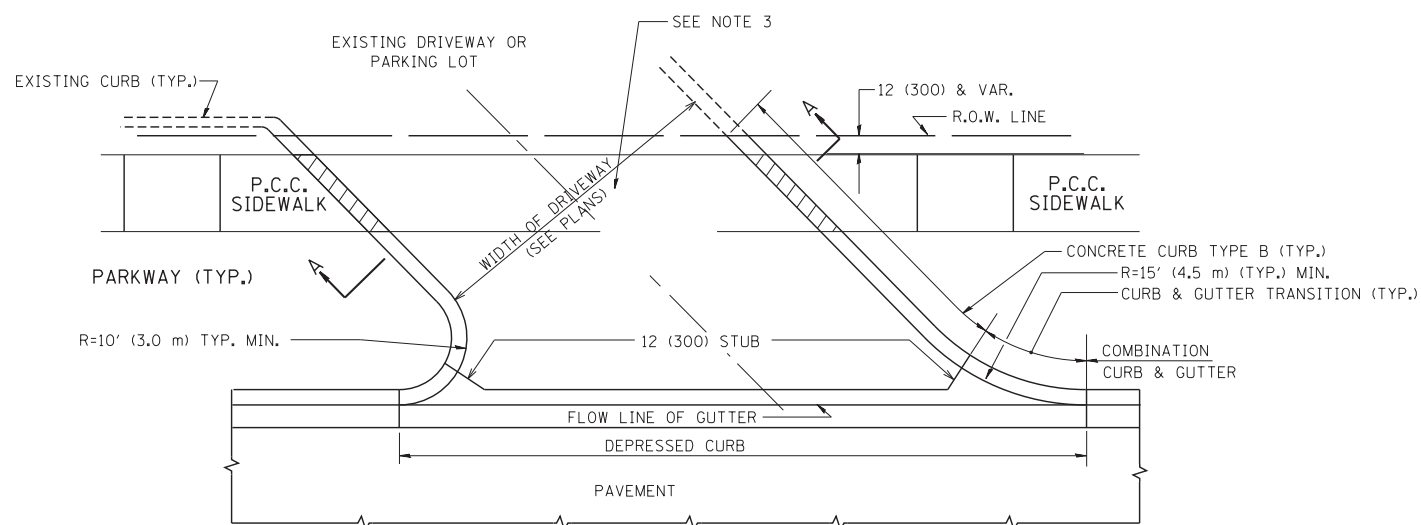
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS			
SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA. TO STA.

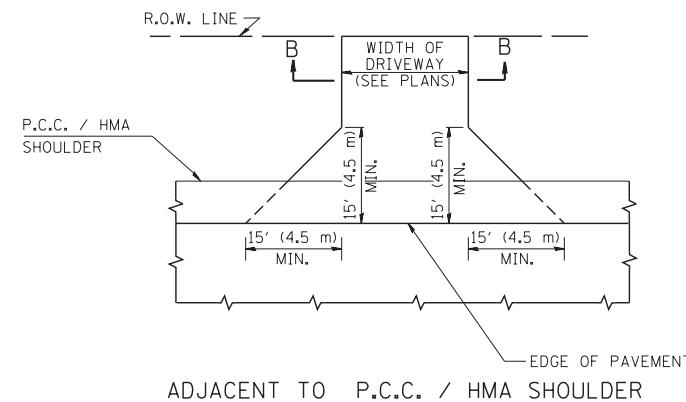
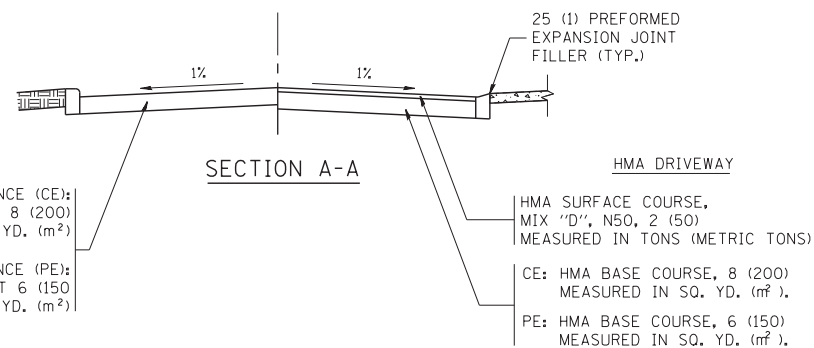
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	341
CONTRACT NO. 60132				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



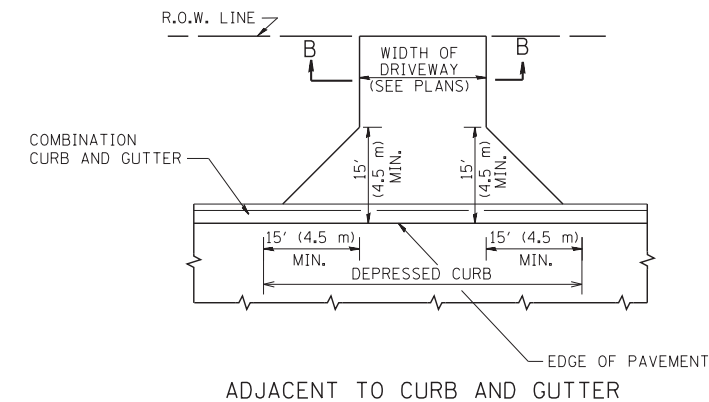
WITH CONCRETE CURB, TYPE B



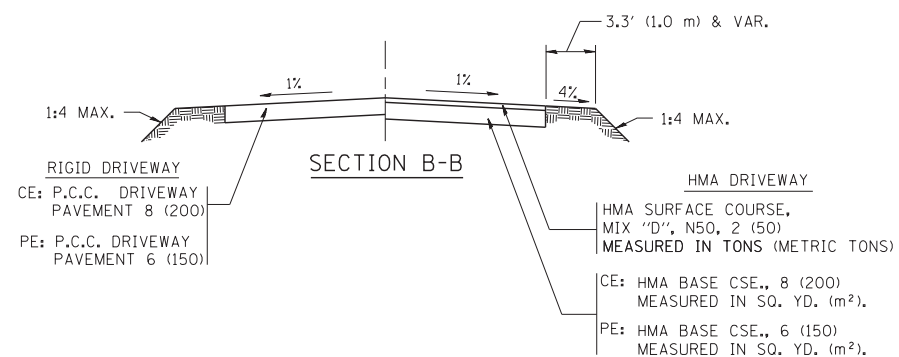
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)
HMA SURFACE COURSE,
MIX 'D', N50, 2 (50)
MEASURED IN TONS (METRIC TONS)
AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

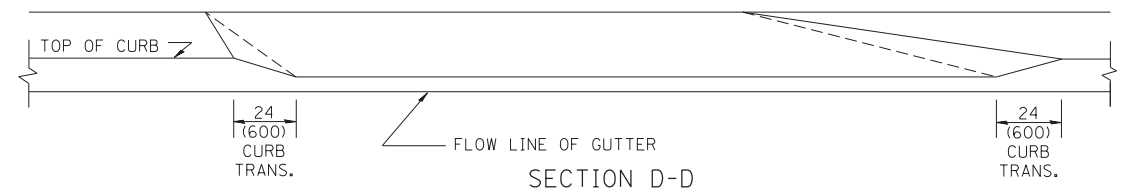
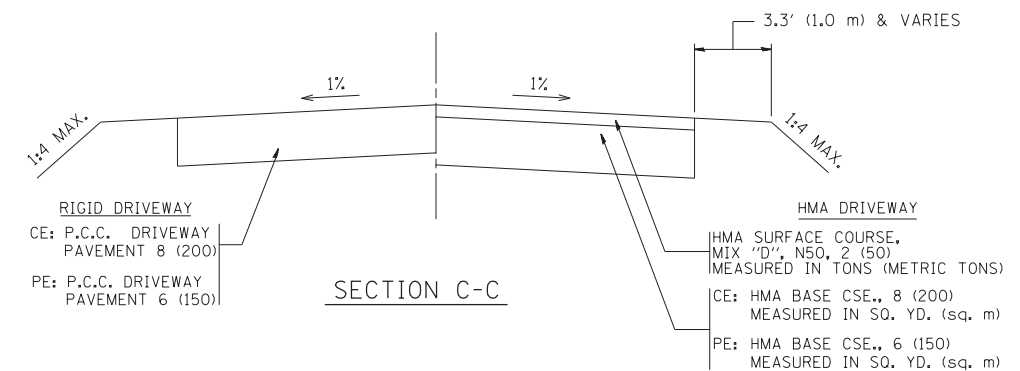
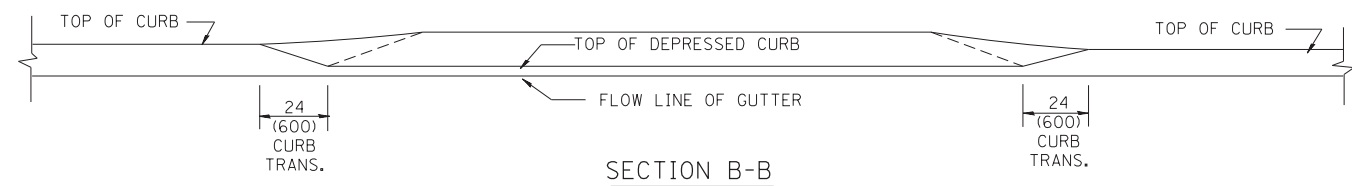
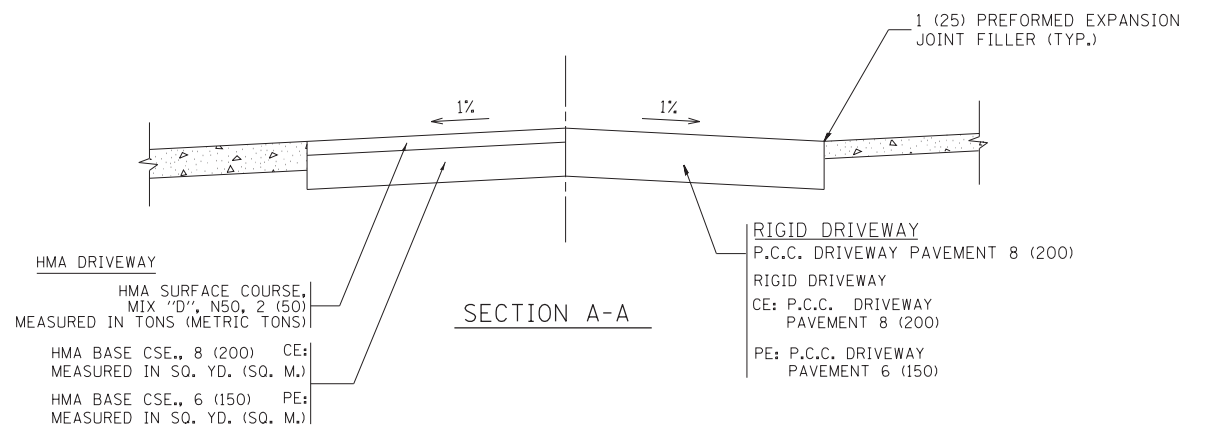
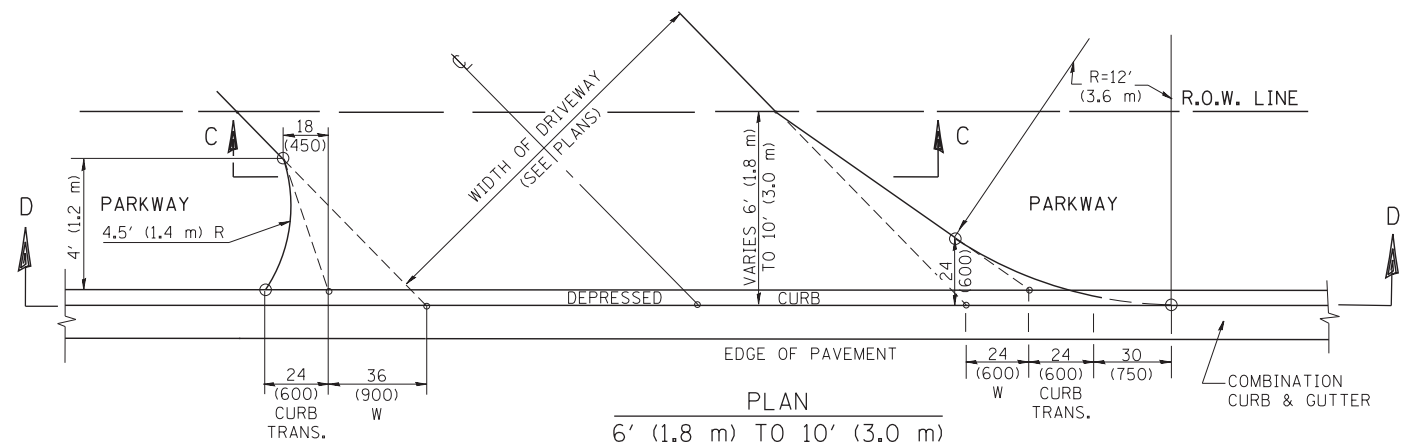
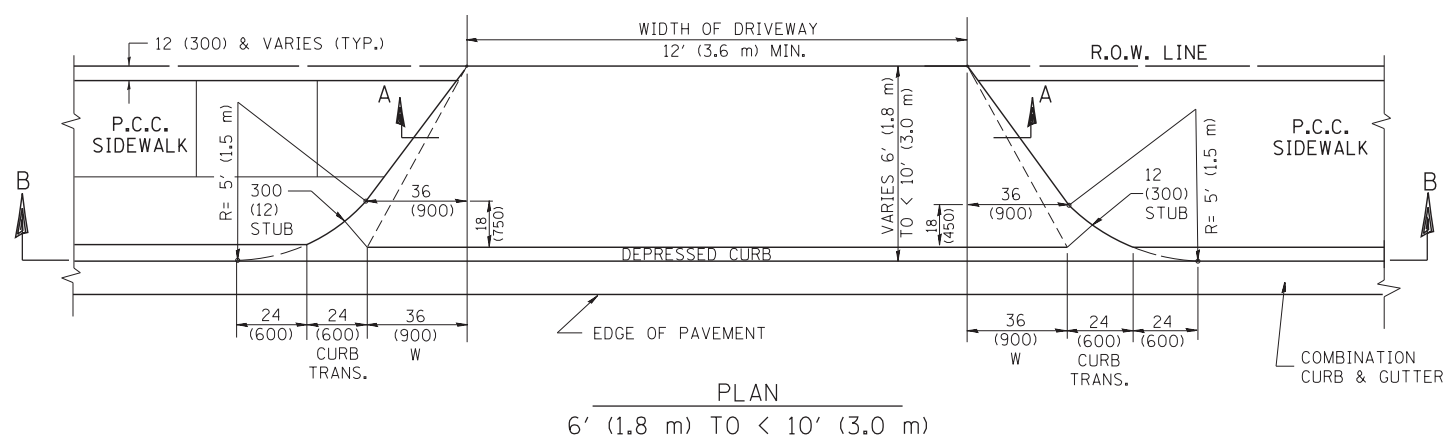
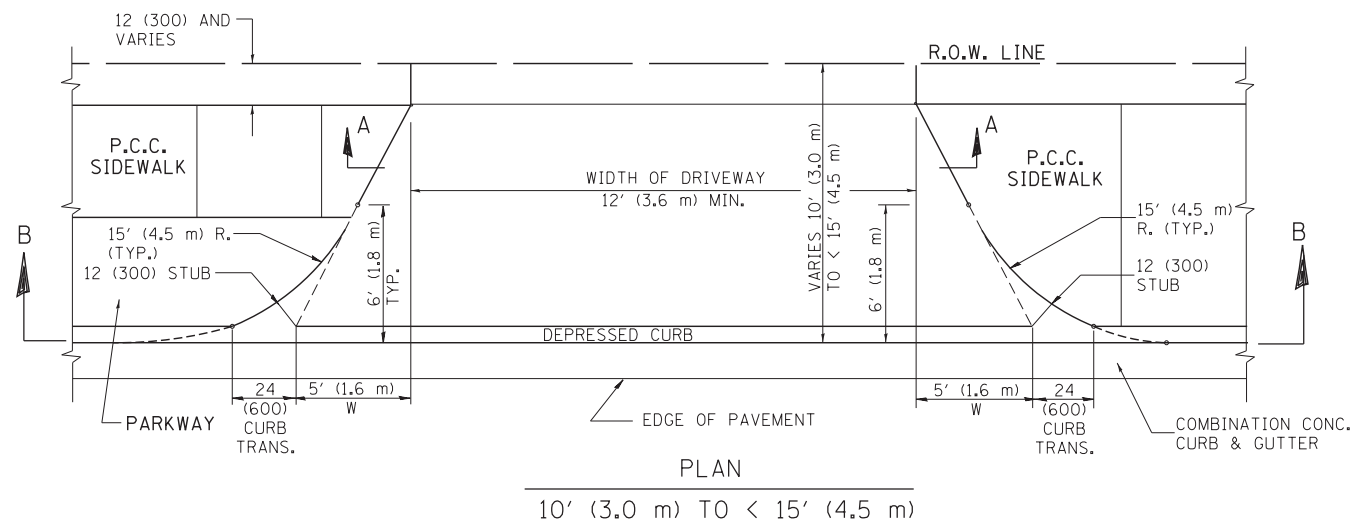
FILE NAME =	USER NAME = lryso	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
ct:\pw\work\p\dot\lryso\d0108315\bd01.dgr		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. BORO 06-11-08
	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	342
BD0156-07 (BD-01)		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

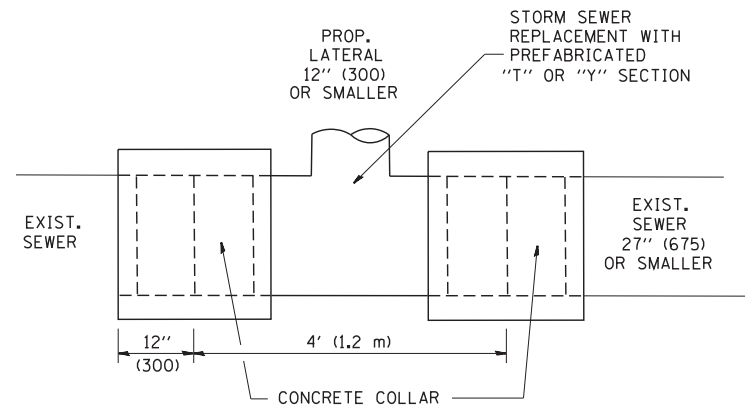
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

FILE NAME =	USER NAME = l1eyso	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
ct:\pw\work\p1dot\1eyso\d0108315\bd02.dgn		DRAWN -	REVISED - P. LOFLEUR 04-15-03
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07
	PLOT DATE = 10/28/2011	DATE - 11-06-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

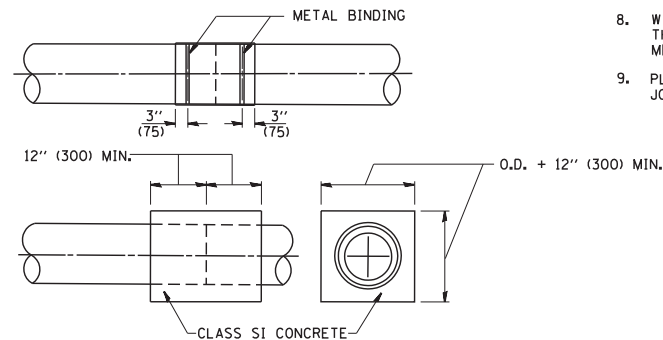
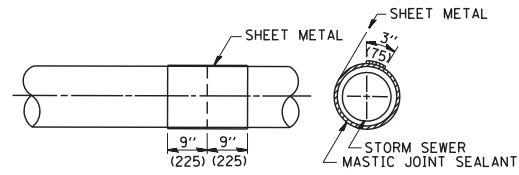
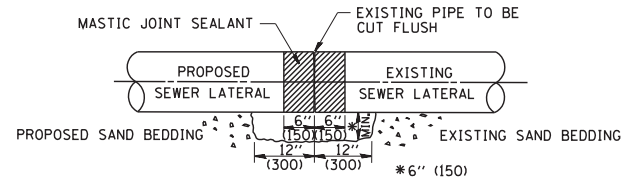
DRIVEWAY DETAILS	
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	343
BD400-02 (BD-02)			CONTRACT NO. 60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DETAIL "A"

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

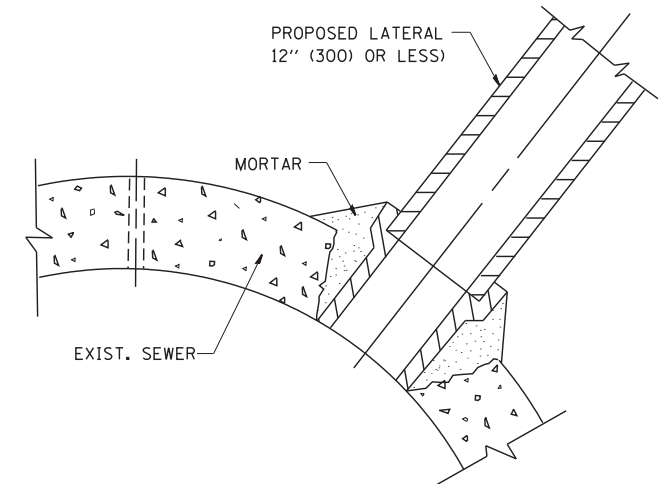


DETAIL "B"

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.

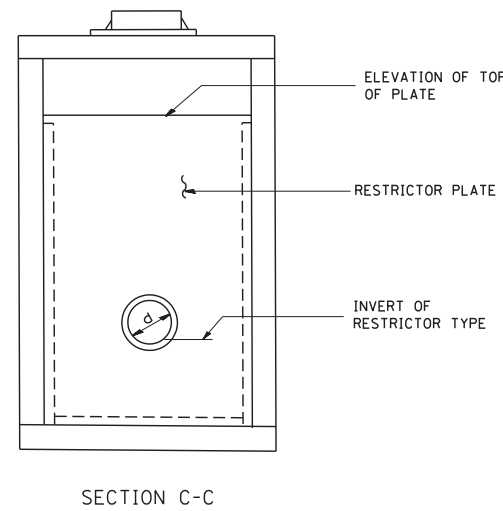
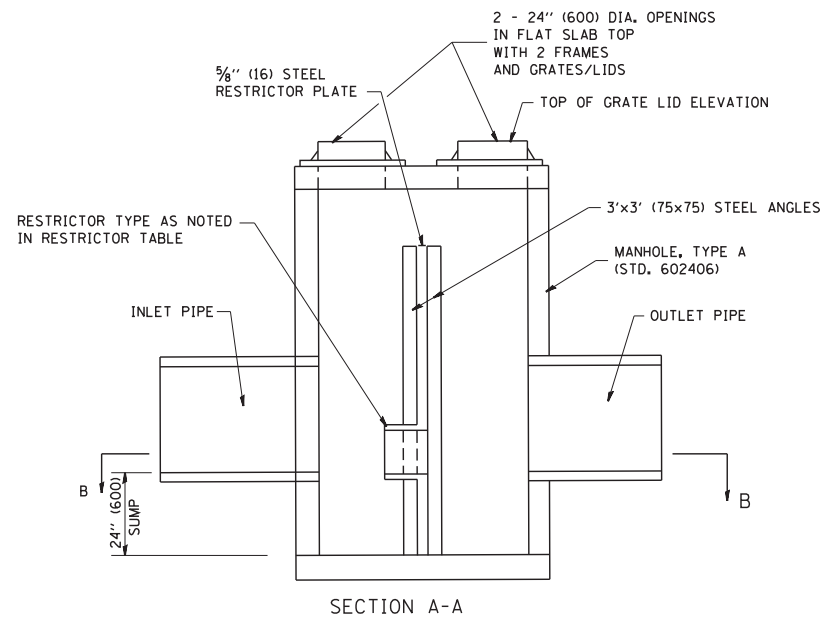
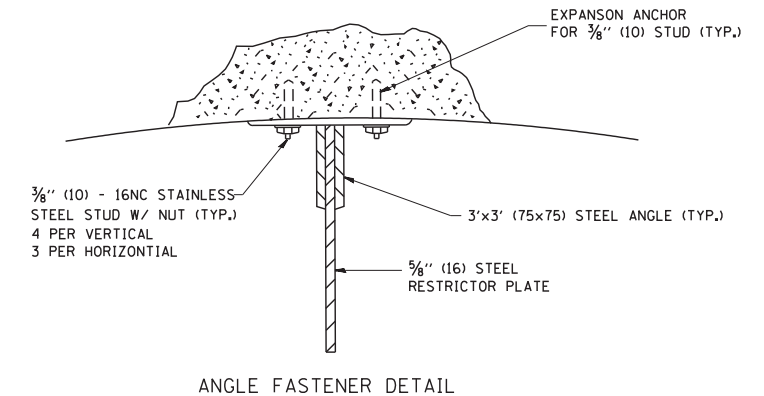
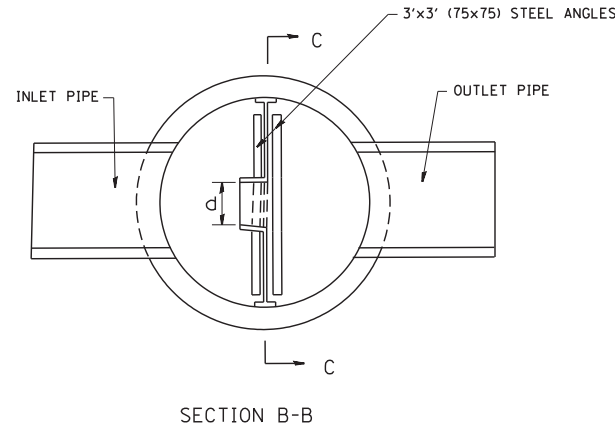
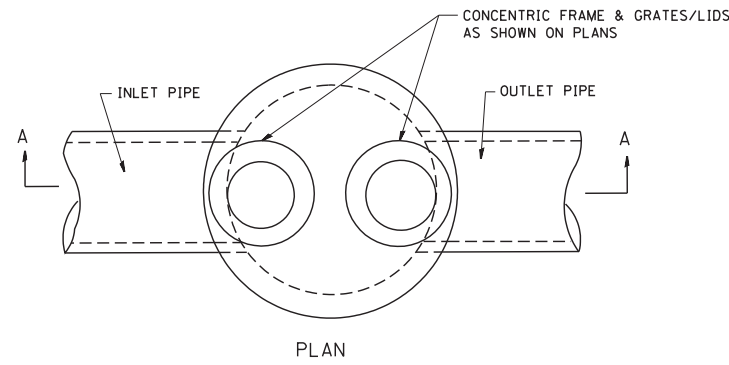
FILE NAME = W:\diststd\22x34\bd07.dgn	USER NAME = gaglionobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92
		DRAWN -	REVISED - R. SHAH 09-09-94
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94
	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

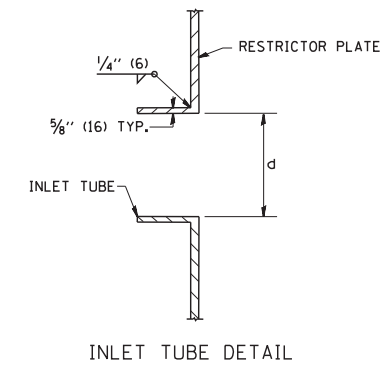
**DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER**

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

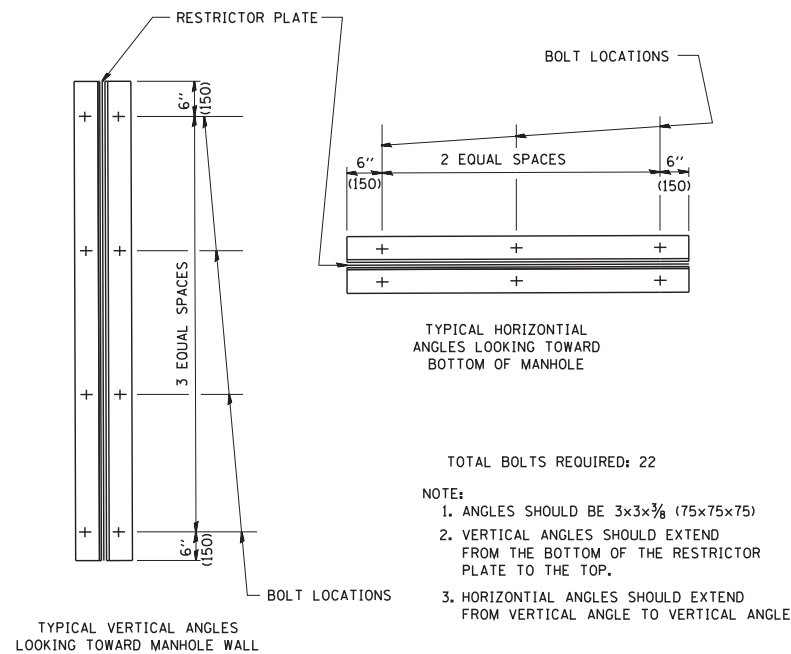
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	344
BD500-01 (BD-7)		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
 2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
 3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
329+10.00	6'	TY. 1 FR., CLID.	3	18	662.50	665.50
329+30.00	6'	TY. 1 FR., CLID.	3	17	662.18	665.00
344+52.00	6'	TY. 1 FR., CLID.	3	15	663.20	667.00
384+00.00	6'	TY. 1 FR., CLID.	3	20	662.60	665.70
395+12.00	6'	TY. 1 FR., CLID.	3	7	664.95	667.00
395+37.00	6'	TY. 1 FR., CLID.	3	9	665.00	668.00
419+16.00	6'	TY. 1 FR., CLID.	3	16	663.00	666.00
422+10.00	6'	TY. 1 FR., CLID.	3	20	662.22	664.00



- TOTAL BOLTS REQUIRED: 22
- NOTE:
1. ANGLES SHOULD BE 3x3x3/8 (75x75x75)
 2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
 3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

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

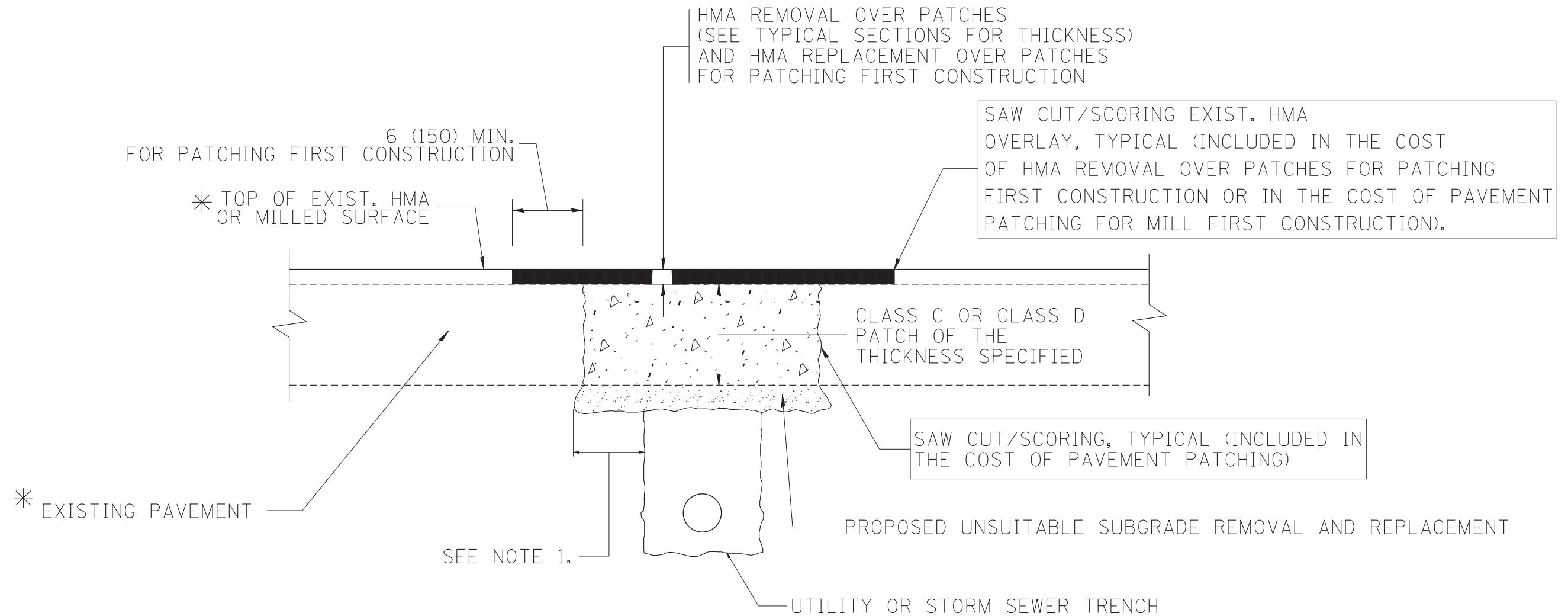
FILE NAME = W:\diststd\22x34\bd12.dgn	USER NAME = gaglionobt	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - E. GOMEZ 08-28-00
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - M. GOMEZ 01-08-01
	PLOT DATE = 1/4/2008	DATE - 09-09-94	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE WITH
RESTRICTOR PLATE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	345
BD600-04 (BD-12)		CONTRACT NO. 60132		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98
		DRAWN -	REVISED - R. BORO 01-01-07
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07
		PLOT DATE = 10/27/2008	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	346
BD400-04 (BD-22)			CONTRACT NO.	60132
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

1/4" (5) **

18" (450) MAX.

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

T/2 *

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

3" (75) MIN.

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

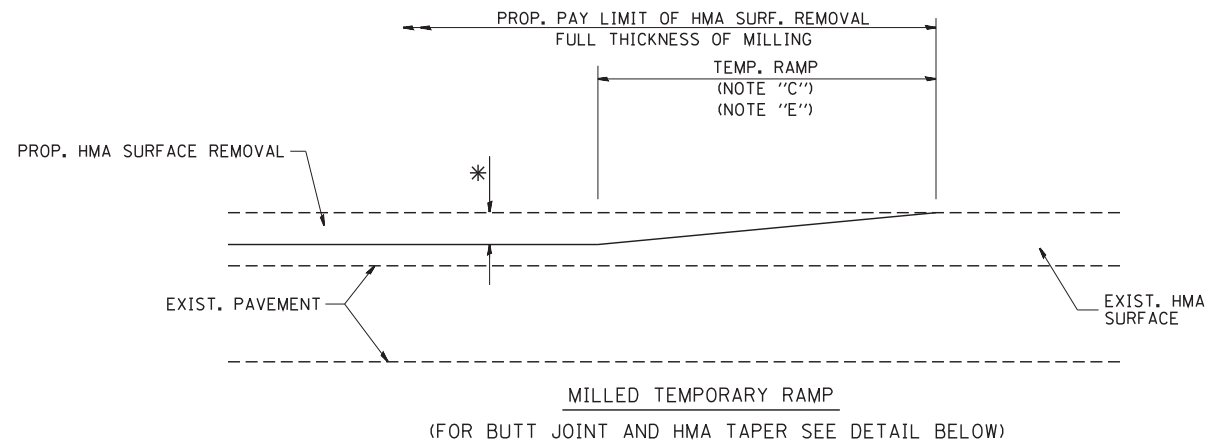
FILE NAME =	USER NAME = drivakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96
ct:\pw\work\p1dot\drivakosgn\0108315\bd24.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01
	PLOT DATE = 12/15/2009	DATE - 03-11-94	REVISED - R. BORO 12-15-09

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

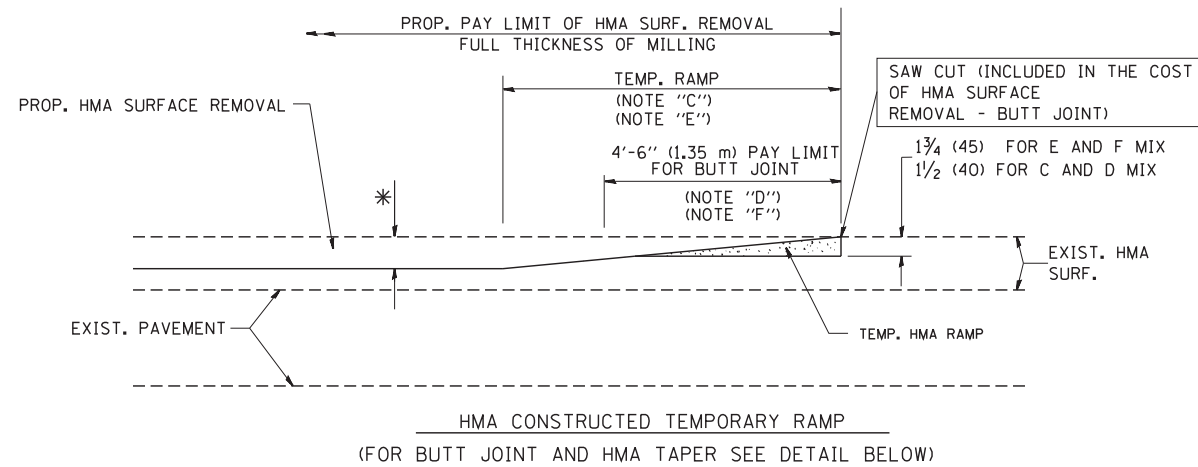
**CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	347
BD600-06 (BD-24)		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

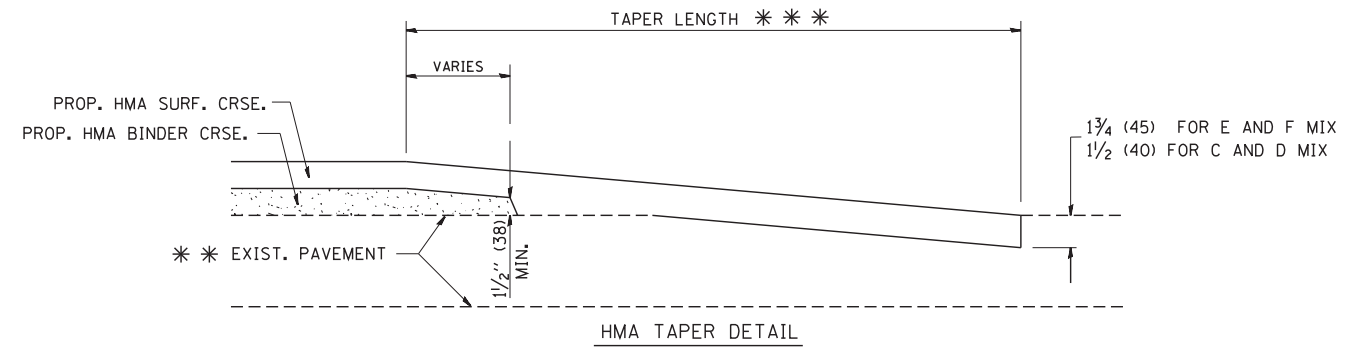
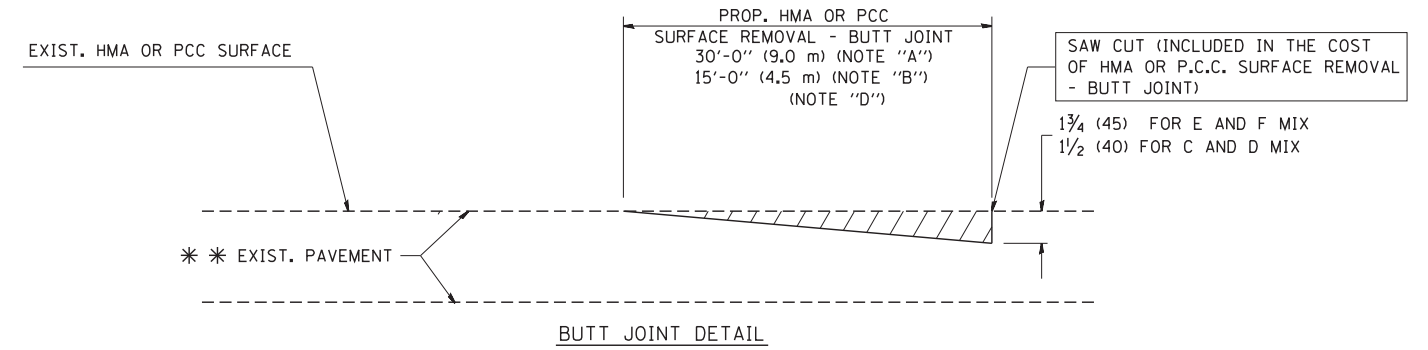


OPTION 1



OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

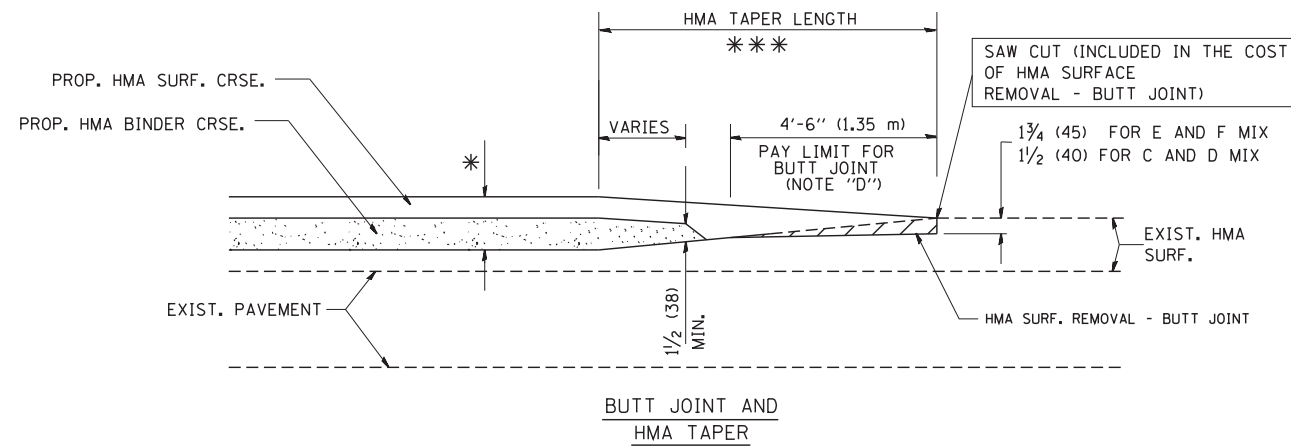
NOTES

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

BASIS OF PAYMENT:

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

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



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

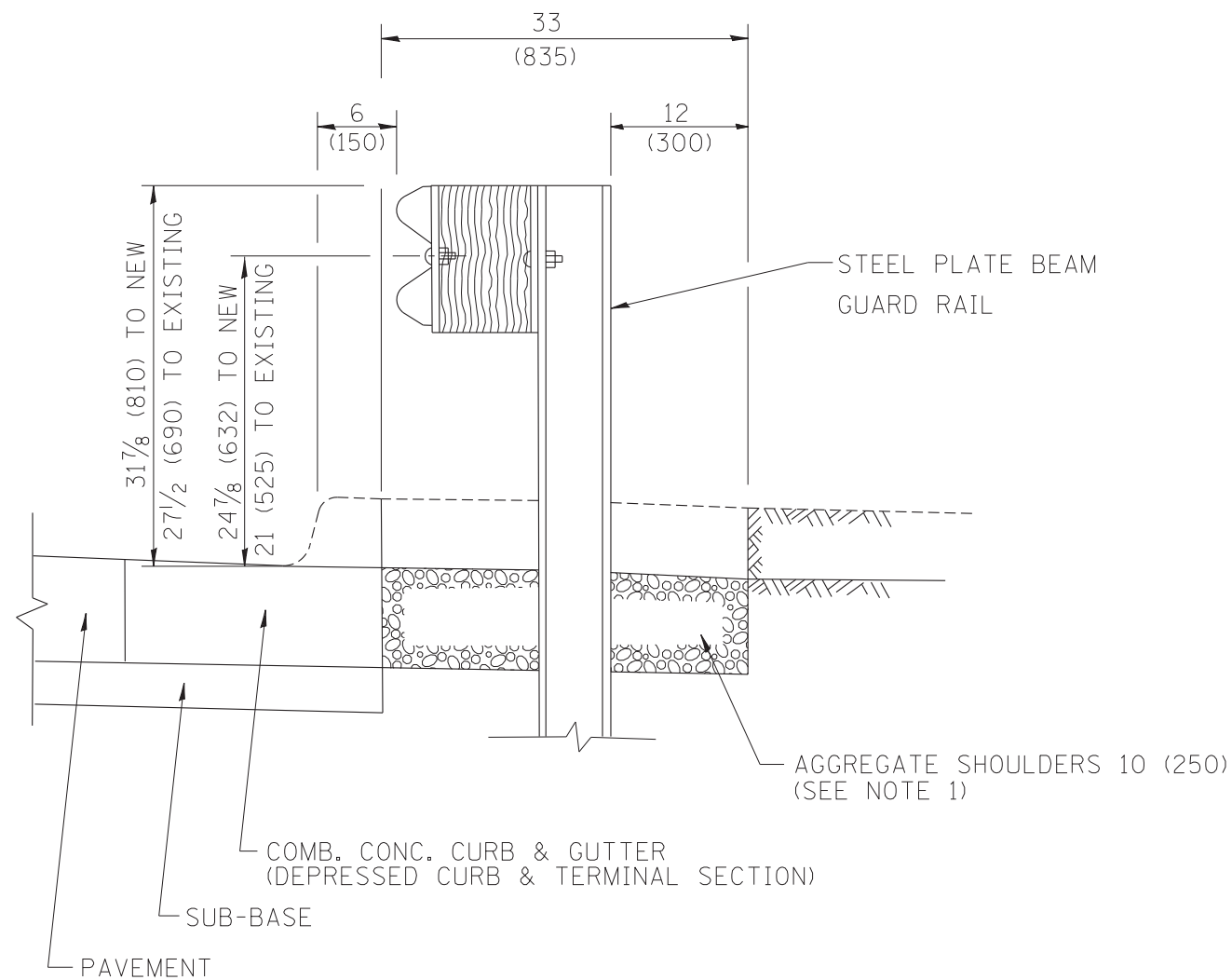
FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gajlonobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

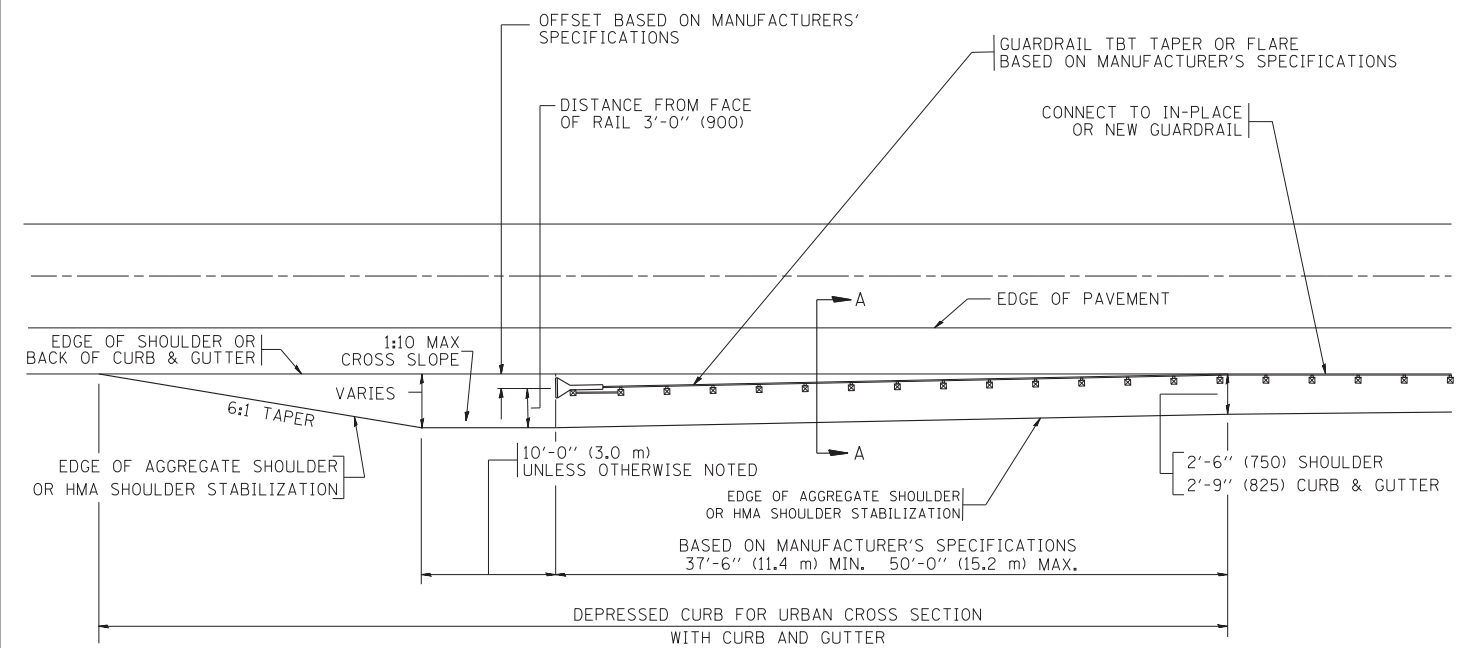
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	348
BD400-05 BD32		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
 [FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
 ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = drivakosgn	DESIGNED - M. DE YONG	REVISED - E. GOMEZ 08-28-00
ct:\pwork\pwidot\DRIVAKOSGN\d0108315\bd34.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 49.9999 ' / IN.	CHECKED -	REVISED - R. BORO 12-08-2008
	PLOT DATE = 9/21/2009	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY 1 SPL.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	349
BD600-10 (BD 34)			CONTRACT NO.	60132
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

GENERAL NOTES

ALTERNATE MATERIAL FOR THE WALLS MAY BE CONCRETE MASONRY UNITS, PRECAST REINFORCED CONCRETE SECTIONS OR CAST-IN-PLACE CONCRETE. THE CAST IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN MAY BE USED WHEN APPROVED BY THE ENGINEER.

CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 1006.14 OF THE STANDARD SPECIFICATIONS.

STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF THREE (3) INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.

STEPS SHALL BE OMITTED FOR WORK IN COOK COUNTY WHEN THE DEPTH OF THE MANHOLE IS TEN (10') OR LESS.

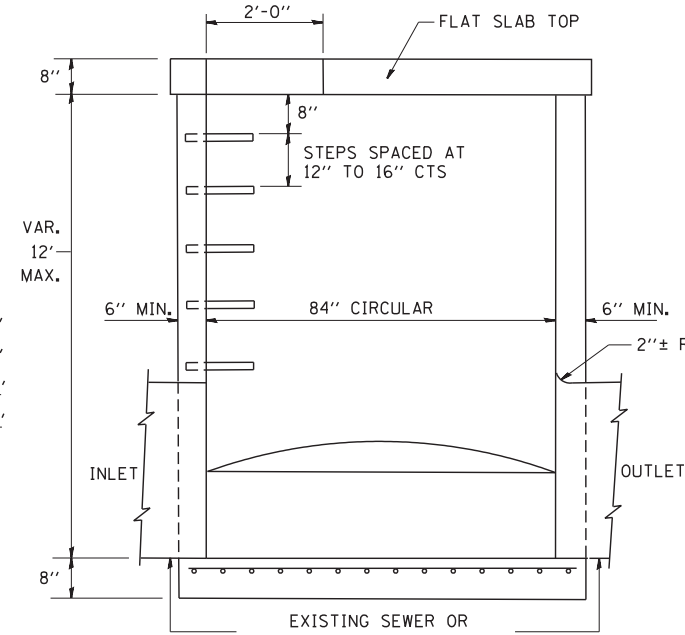
IN ADDITION TO THE REQUIREMENTS OF ARTICLE 612.13 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR MANHOLES, TYPE A, 7'-DIAMETER SHALL INCLUDE THE SAND CUSHION WHEN REQUIRED, FURNISHING AND INSTALLING STEPS WHEN REQUIRED, FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL, AND FURNISHING AND INSTALLING FLAT SLAB TOP.

PRECAST FLAT SLAB TOP SHALL CONFORM TO ARTICLES 505.01 THRU 505.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS. REINFORCEMENT BARS AND WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.10. ONLY GRADE 60 REINFORCEMENT BARS WILL BE PERMITTED.

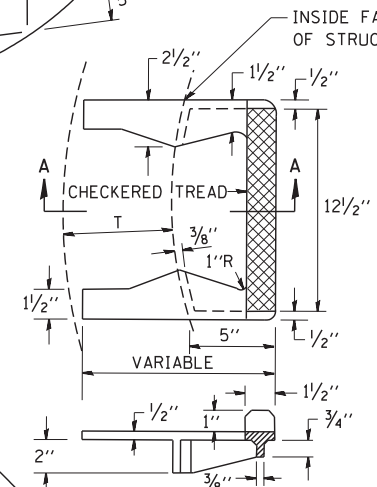
BOTTOM SLAB SHALL BE REINFORCED BY EITHER REINFORCEMENT BARS OR WELDED WIRE FABRIC. THE MINIMUM REINFORCEMENT SHALL BE 0.46 SQUARE INCH PER LINEAR FOOT IN BOTH DIRECTIONS.

JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.

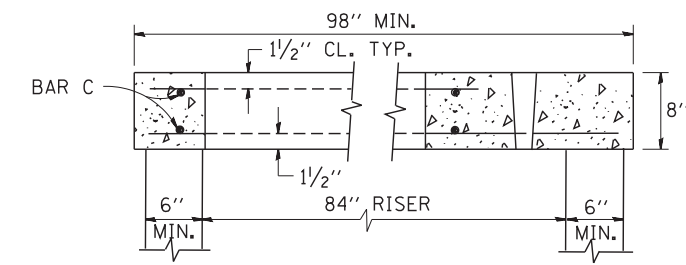
LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.



ELEVATION

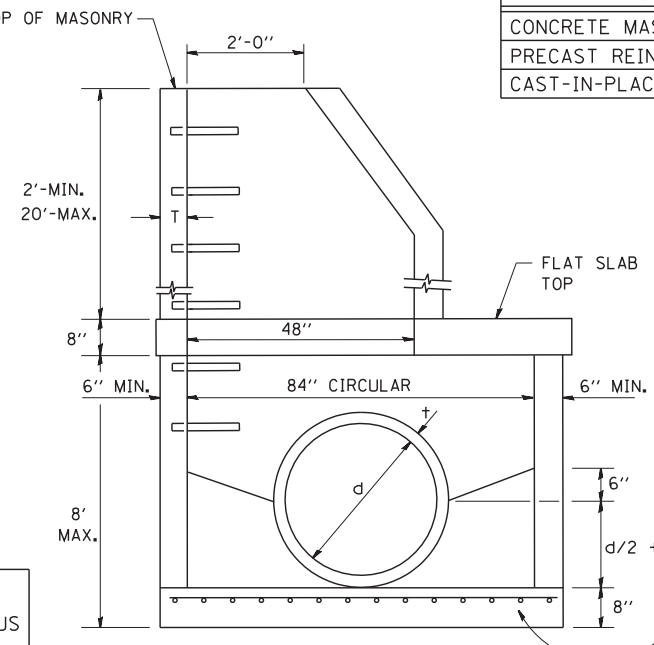


**SEC. A-A
CAST IRON STEPS**

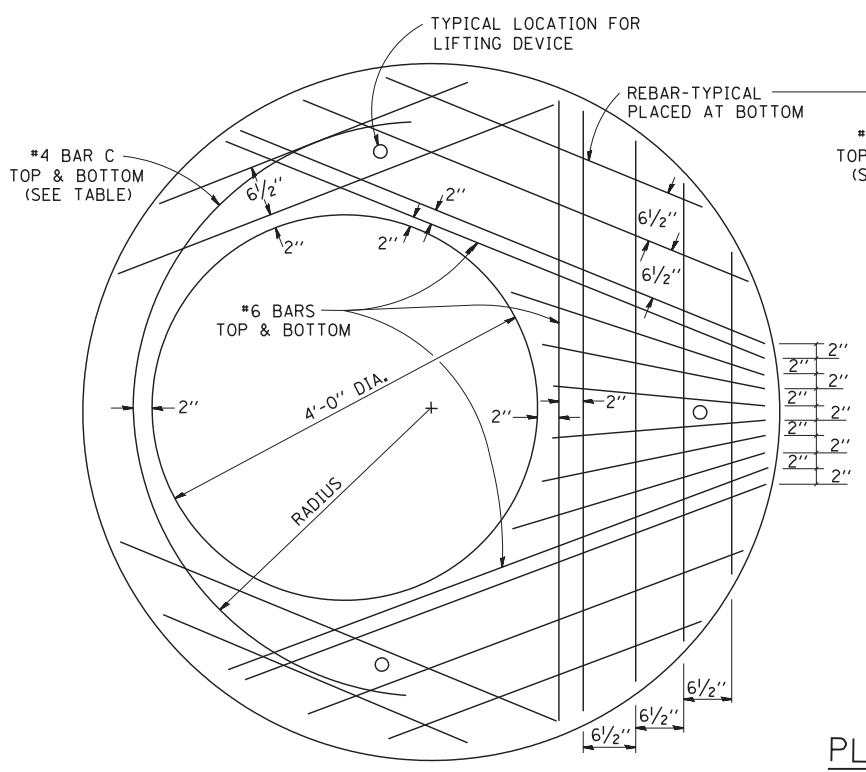
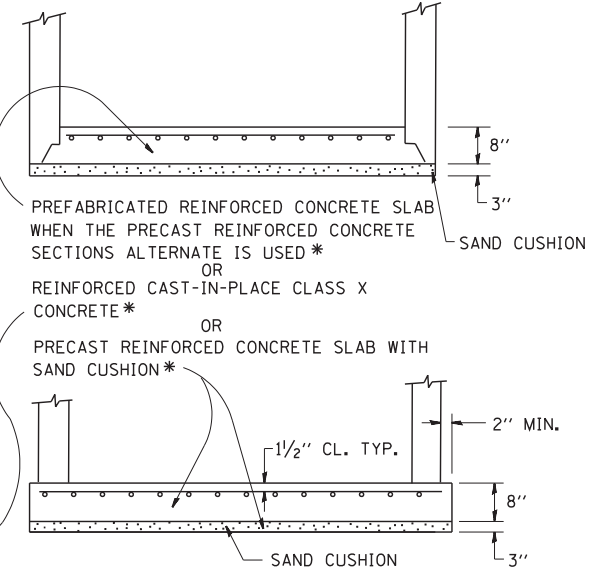


SECTION B-B

ALTERNATE MATERIALS FOR RISERS	T (MIN.)
CONCRETE MASONRY UNITS	5"
PRECAST REINFORCED CONCRETE SECTIONS	4"
CAST-IN-PLACE CONCRETE	6"

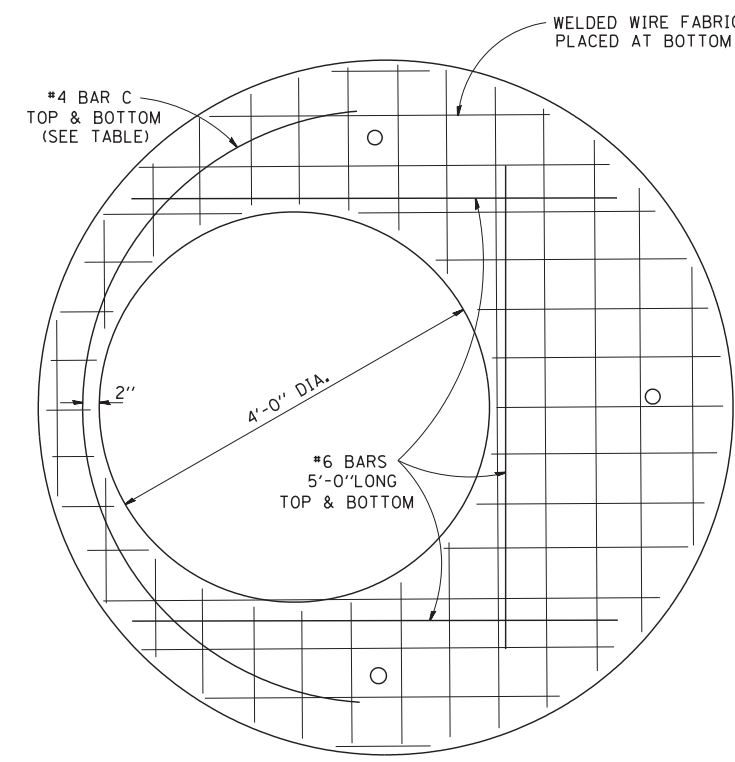
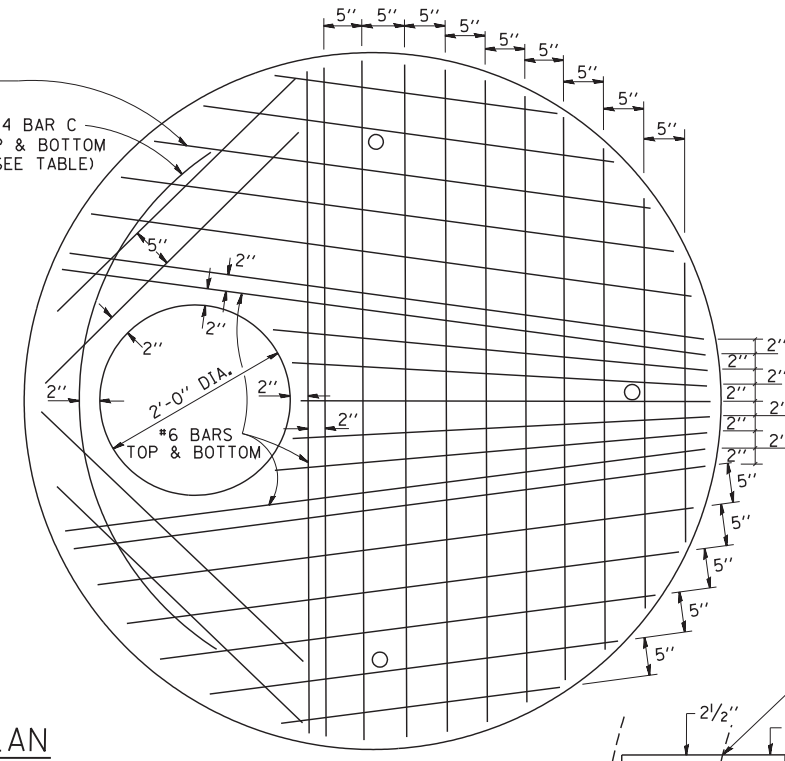


ELEVATION



PLAN

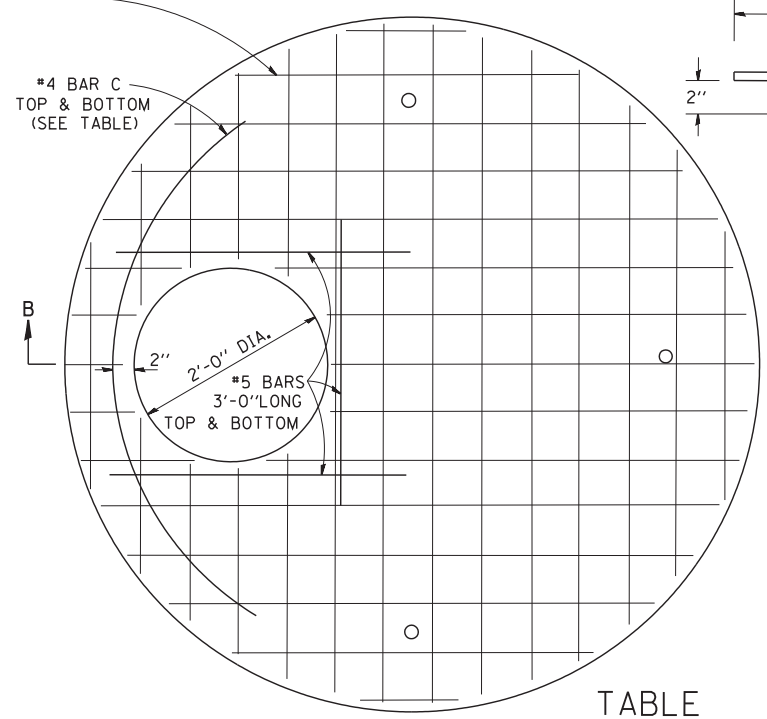
SHOWING REBAR REINFORCEMENT



PLAN

SHOWING WELDED WIRE FABRIC REINFORCEMENT

NOTE: THIS STRUCTURE SHOULD BE USED WITH PIPES SIZE 54" DIA. OR SMALLER.



TABLE

DIAMETER OF OPENING	REINFORCEMENT "A _c " WWF OR SIZE EACH DIRECTION	BAR SIZE	BAR C		
			SIZE	LENGTH	RADIUS
2'-0"	1.06 SQ.IN./LIN.FT.	#6	#4	6'-0"	38"
4'-0"	0.82 SQ.IN./LIN.FT.	#6	#4	9'-0"	38"

FILE NAME = W:\diststd\22x34\bd37.dgn

USER NAME = gaglionobt
PLOT SCALE = 50.0000' / IN.
PLOT DATE = 1/4/2008

DESIGNED -
DRAWN -
CHECKED -
DATE - 10-18-02

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MANHOLE TYPE A
7 FOOT DIAMETER**

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

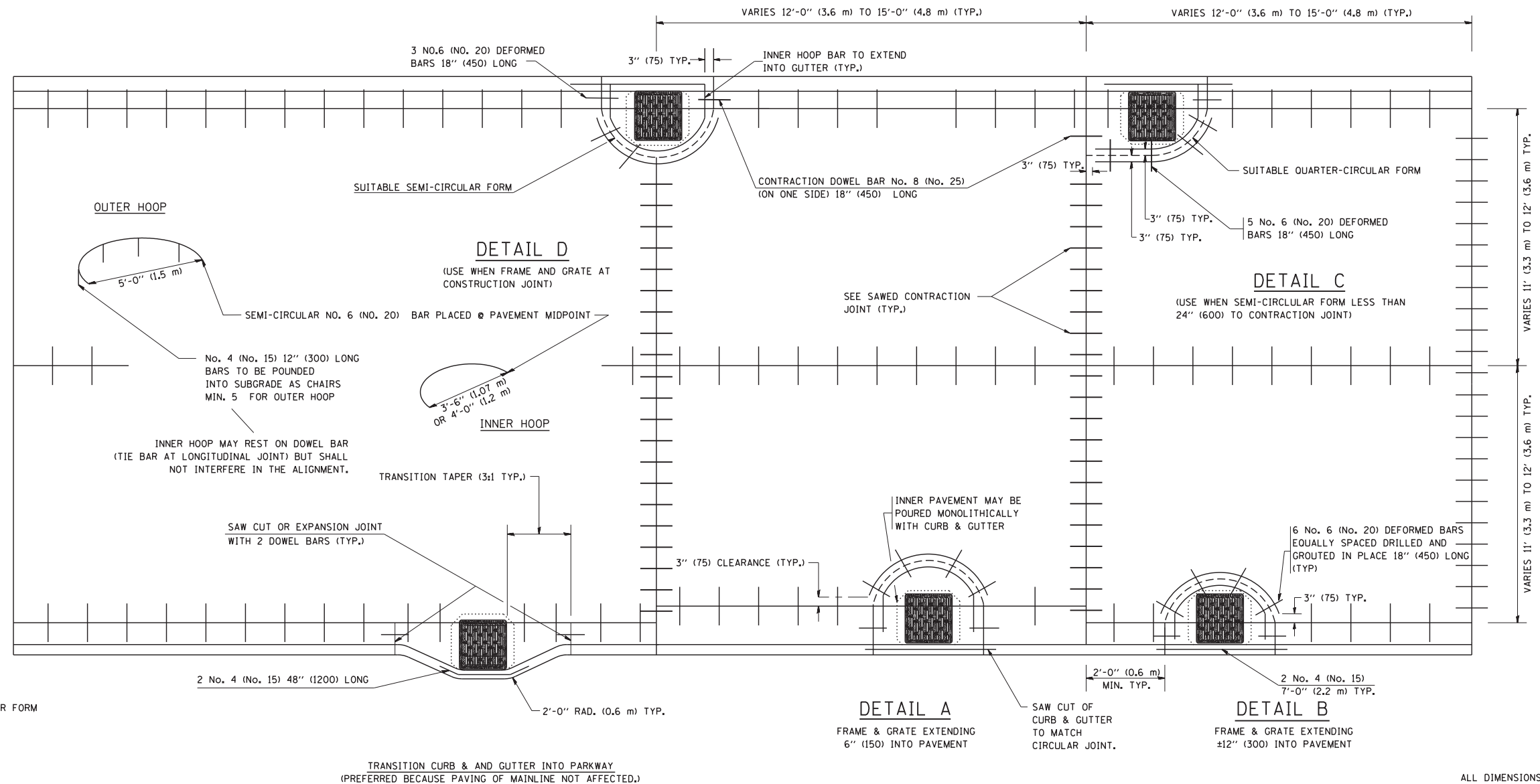
F.A.P. RTE. 349 SECTION 11 WRS-3 COUNTY KENDALL TOTAL SHEETS 527 SHEET NO. 350
BD600-11 (BD-37) CONTRACT NO. 60132
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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.



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

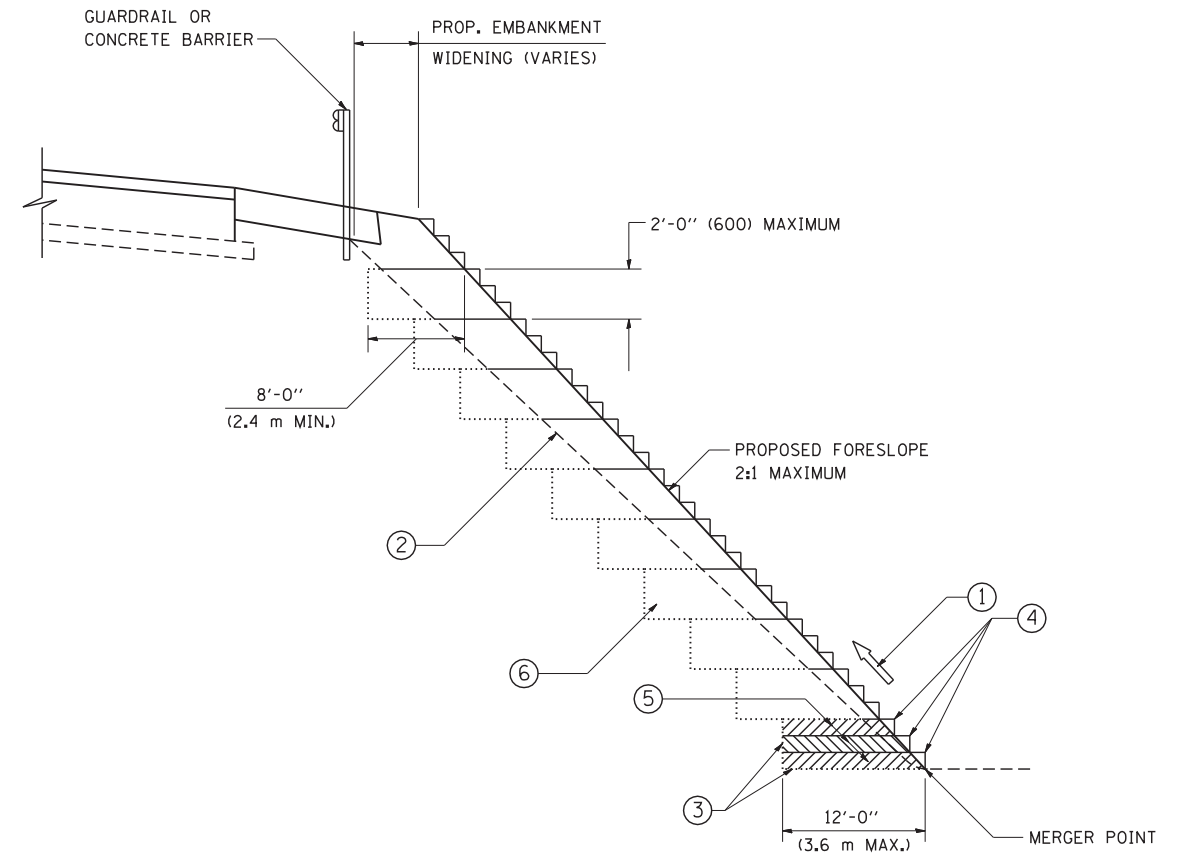
FILE NAME = W:\diststd\22x34\bd48.dgn	USER NAME = gaglionobt	DESIGNED - A. ABBAS	REVISED - T. MATOUSEK 08-28-00
		DRAWN - TOM MATOUSEK	REVISED - T. MATOUSEK 10-02-00
	PLOT SCALE = 50.0000' / IN.	CHECKED - A. ABBAS	REVISED - T. MATOUSEK 04-25-02
	PLOT DATE = 1/4/2008	DATE - 01-04-99	REVISED - P. LAFLEUR 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.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	351
BD-48		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPICAL BENCHING DETAIL
FOR EMBANKMENT

NOTES:

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

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

FILE NAME = W:\diststd\22x34\bd51.dgn	USER NAME = gegl10nbt	DESIGNED -	REVISED -
		DRAWN - CADD	REVISED -
		CHECKED - S.E.B.	REVISED -
		DATE - 06-16-04	REVISED -

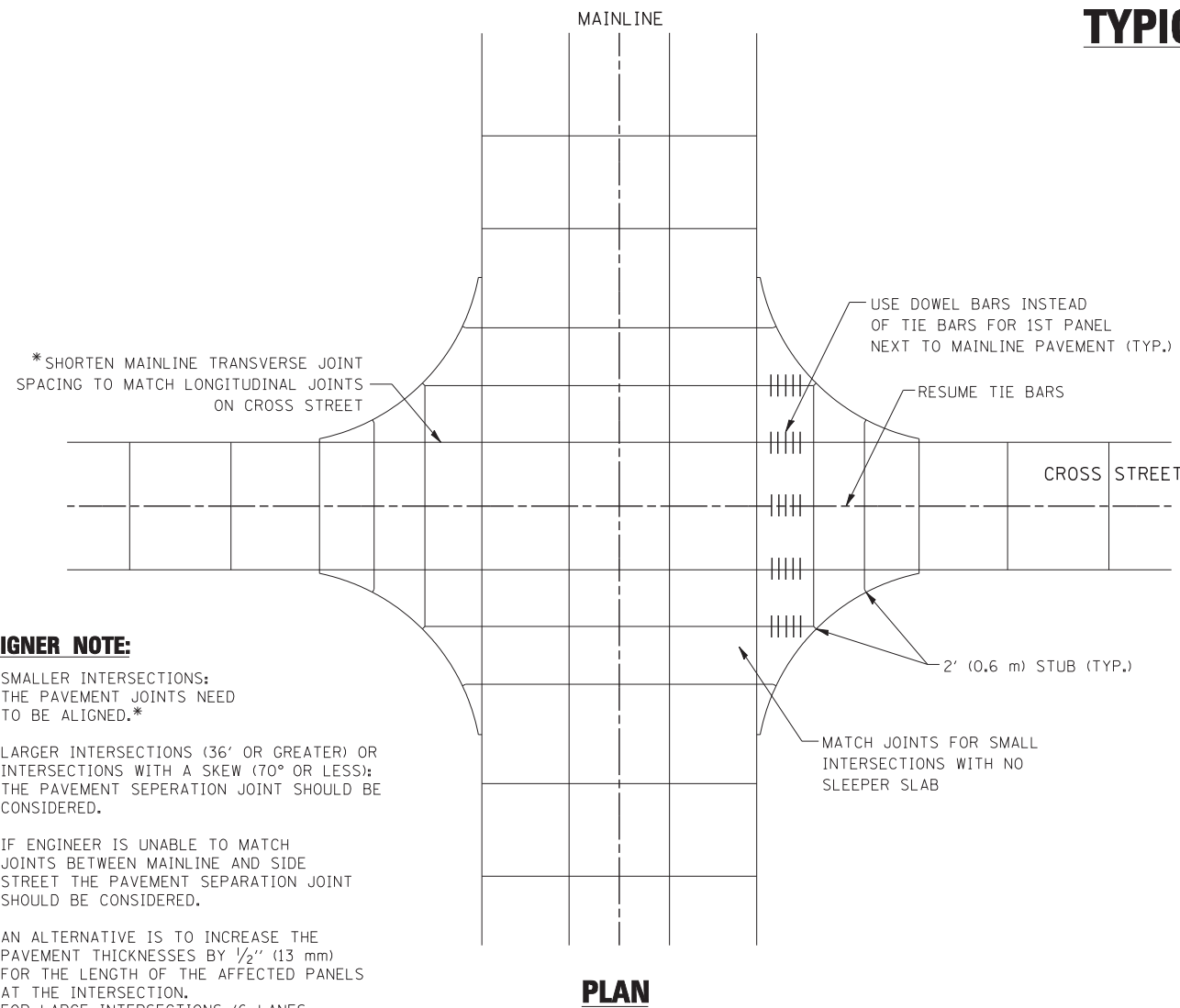
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	352
BD-51		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TYPICAL APPLICATION

THE USE OF CROSS STREET PAVEMENT SEPARATION JOINTS FOR SKEWED OR LARGE INTERSECTIONS WHERE JOINTS MAY NOT MATCH



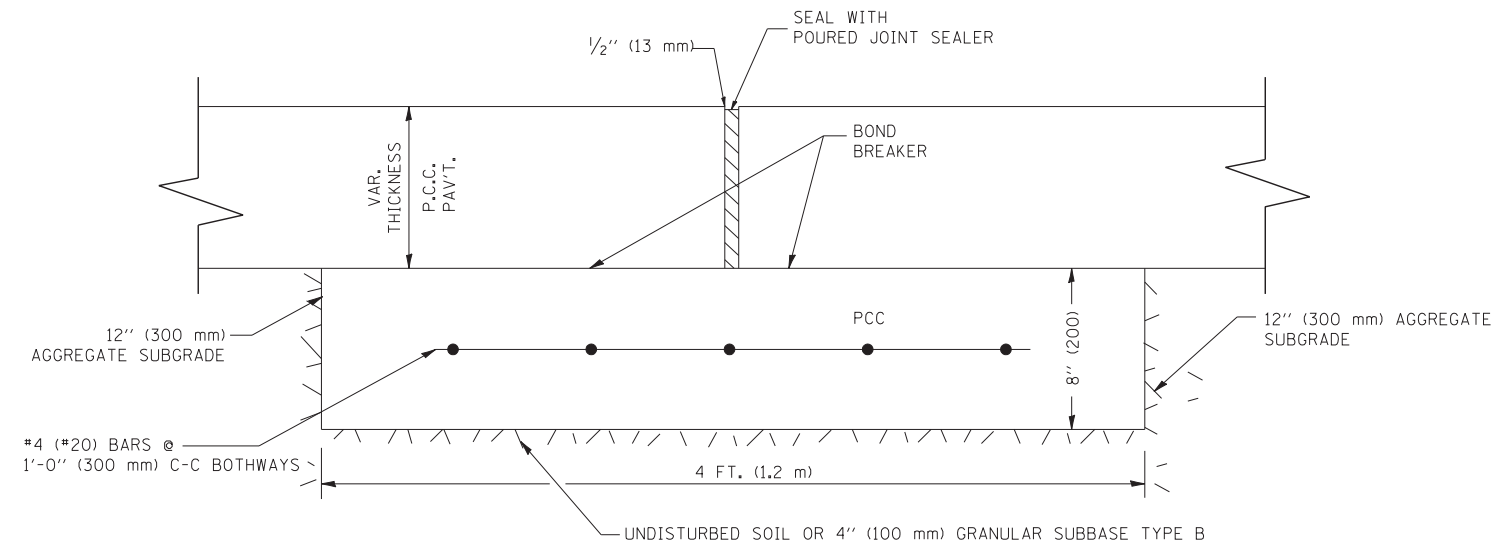
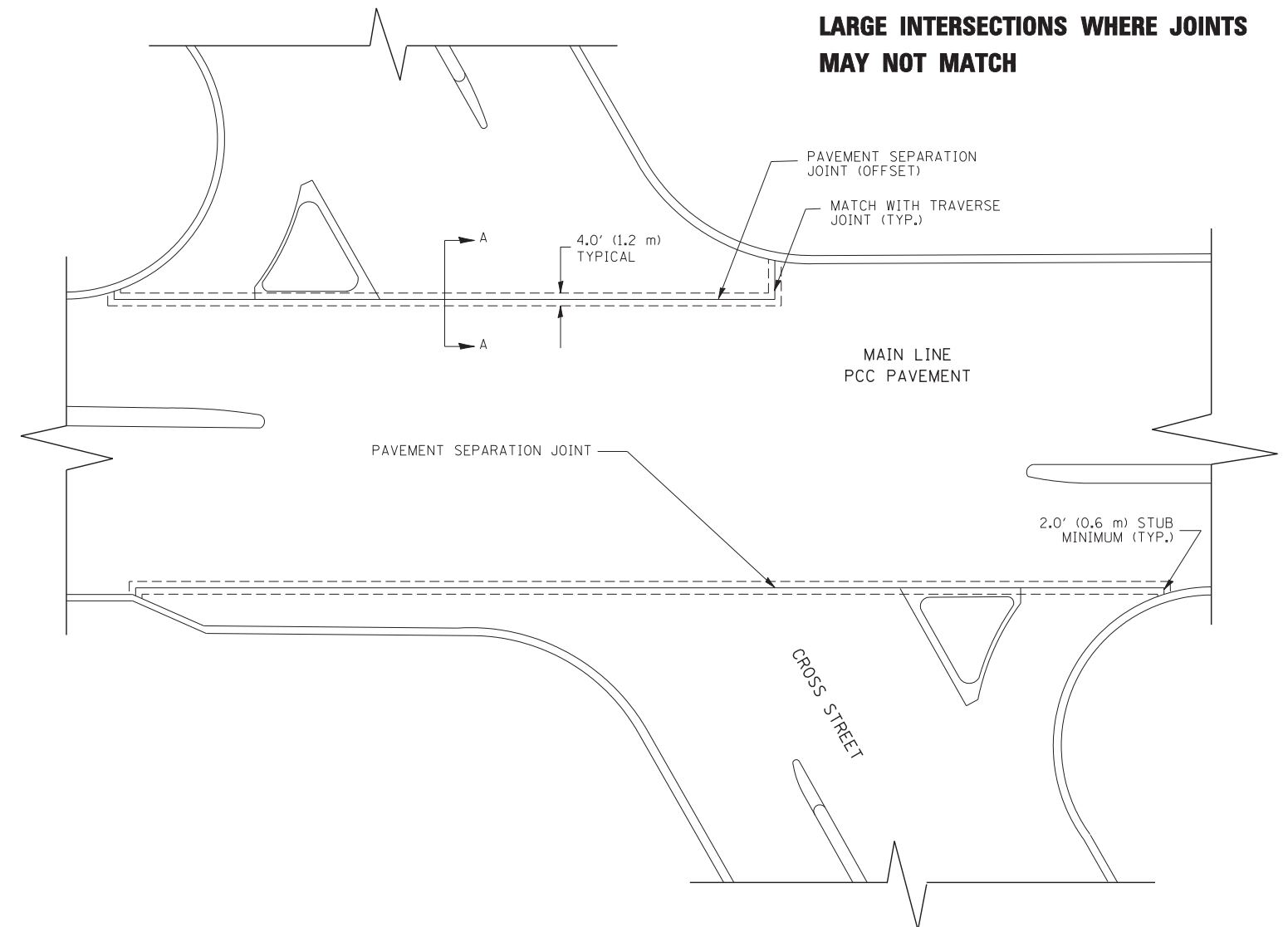
PLAN

DESIGNER NOTE:

1. SMALLER INTERSECTIONS: THE PAVEMENT JOINTS NEED TO BE ALIGNED.*
2. LARGER INTERSECTIONS (36' OR GREATER) OR INTERSECTIONS WITH A SKEW (70° OR LESS): THE PAVEMENT SEPERATION JOINT SHOULD BE CONSIDERED.
3. IF ENGINEER IS UNABLE TO MATCH JOINTS BETWEEN MAINLINE AND SIDE STREET THE PAVEMENT SEPARATION JOINT SHOULD BE CONSIDERED.
4. AN ALTERNATIVE IS TO INCREASE THE PAVEMENT THICKNESSES BY 1/2" (13 mm) FOR THE LENGTH OF THE AFFECTED PANELS AT THE INTERSECTION. FOR LARGE INTERSECTIONS (6 LANES OR MORE) WHERE JOINTS CAN BE MATCHED, USE #8 (25) DOWEL BARS INSTEAD OF #8 (25) TIE BARS AT EDGE OF MAINLINE PAVEMENT WHEN NO PAVEMENT SEPARATION JOINTS USED.

NOTE:

1. JOINT FILLER SHALL CONSIST OF A SHEET OF 1/2" (13 mm) BITUMINOUS PREFORMED FIBER JOINT FILLER CONFORMING TO ARTICLE 1051.03 OF THE STANDARD SPECIFICATIONS.
2. THE JOINT SHALL BE SEALED WITH A HOT POUR JOINT SEALER CONFORMING TO ARTICLE 1050.02 OF THE STANDARD SPECIFICATIONS.
3. A SINGLE LAYER OF FELT ROOFING PAPER SHALL SERVE AS A BOND BREAKER.
4. JOINT SHALL CONTINUE THROUGH COMBINATION CURB & GUTTER OR PCC SHOULDER.
5. PAVEMENT SEPARATION JOINT IS TO BE PAID FOR AS "SLEEPER SLAB" AND IS TO BE MEASURED IN PLACE BY THE LINEAL FOOT.
6. BOND BREAKER AND 1/2" (13 mm) JOINT AND FILLER SHALL BE INCIDENTAL TO THE PAY ITEM "SLEEPER SLAB".



PROPOSED SECTION A-A

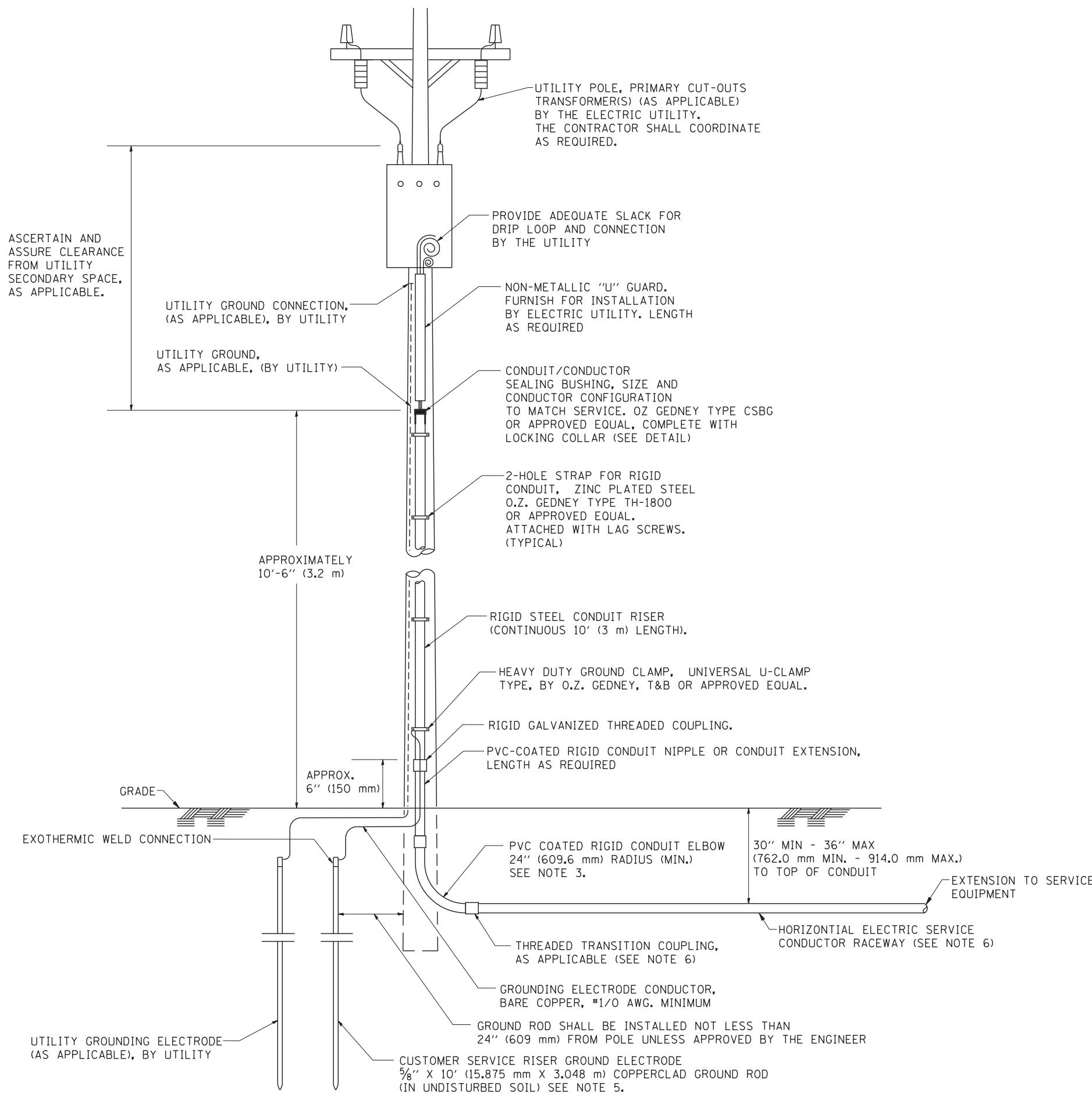
FILE NAME = bd52.dgn	USER NAME = leuss	DESIGNED - DRAWN -	REVISED - CADD 06-18-10 REVISED -
	PLOT SCALE = 49.9999' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/25/2011	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF PAVEMENT SEPARATION JOINT FOR JOINTED PCC PAVEMENTS AT INTERSECTIONS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE. 349	SECTION 11 WRS-3	COUNTY KENDALL	TOTAL SHEETS 527	SHEET NO. 353
BD52			CONTRACT NO. 60132	
ILLINOIS FED. AID PROJECT				

ASCERTAIN AND ASSURE CLEARANCE FROM UTILITY SECONDARY SPACE, AS APPLICABLE.

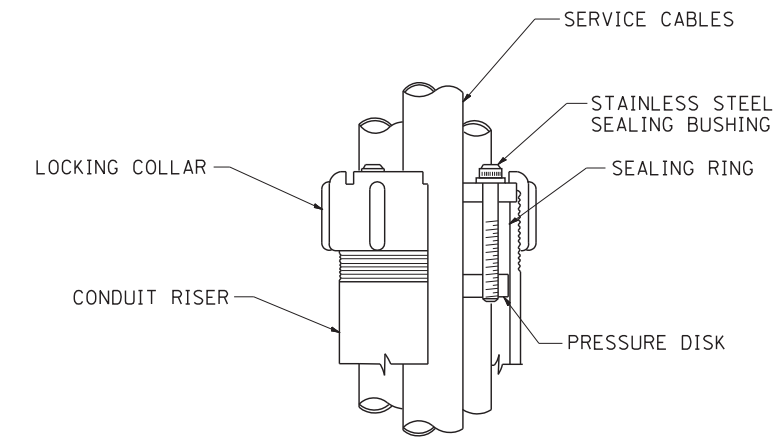


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.

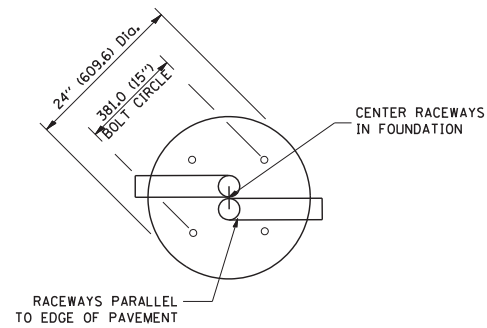


SEALING BUSHING DETAIL

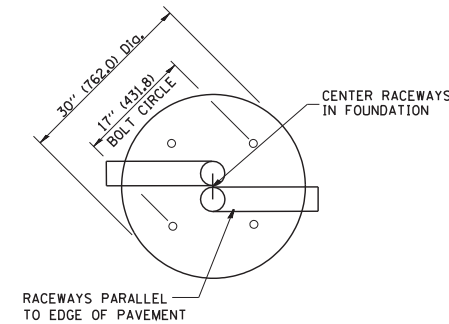
FILE NAME = W:\diststd\22x34\be220.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - 03-03-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -					349	11 WRS-3	KENDALL	527	354
	PLOT DATE = 1/4/2008	CHECKED - MEA	REVISED -					BE-220		CONTRACT NO.		60132
		DATE -	REVISED -					FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.					

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY O _u = 0.375 TON/SO. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY O _u = 0.75 TON/SO.FT	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY O _u = 1.50 TON/SO. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



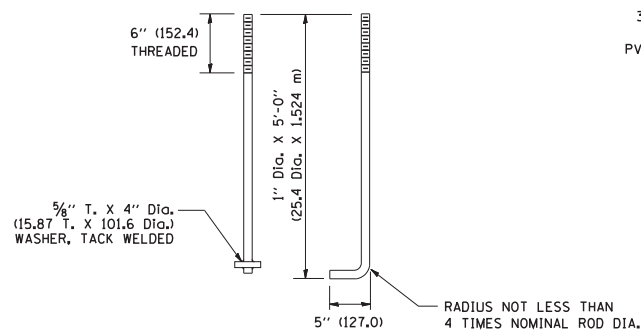
TOP VIEW



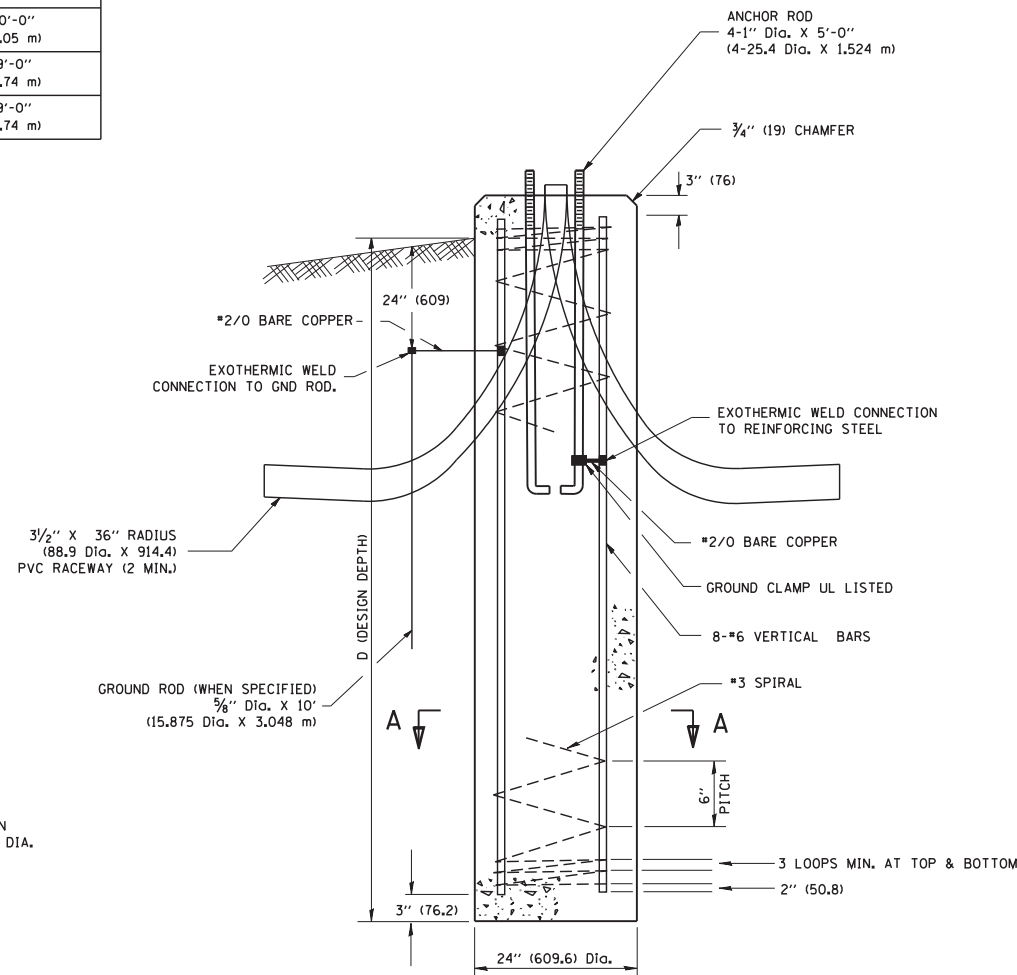
TOP VIEW

NOTES

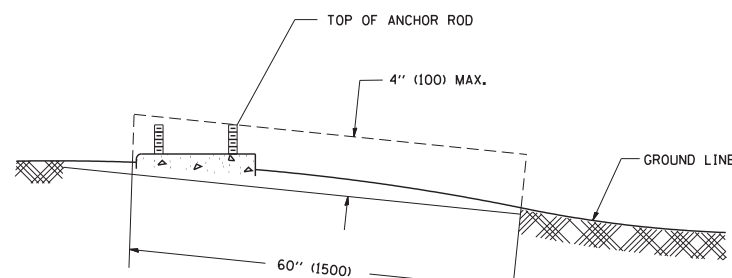
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



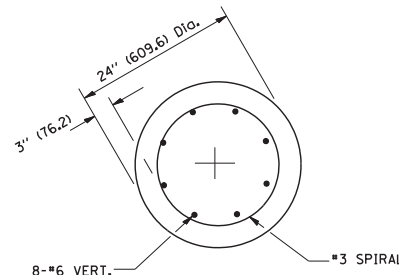
ANCHOR ROD DETAIL



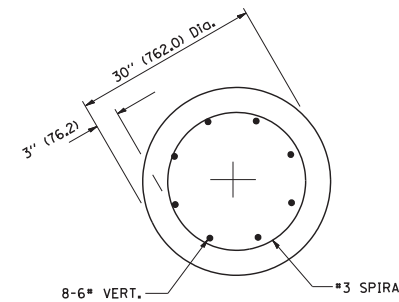
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

FILE NAME =
W:\diststd\22x34\be301.dgn

USER NAME = gaglionobt
PLOT SCALE = 50.0000' / IN.
PLOT DATE = 1/4/2008

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED - 04-22-02
REVISED -
REVISED -
REVISED -

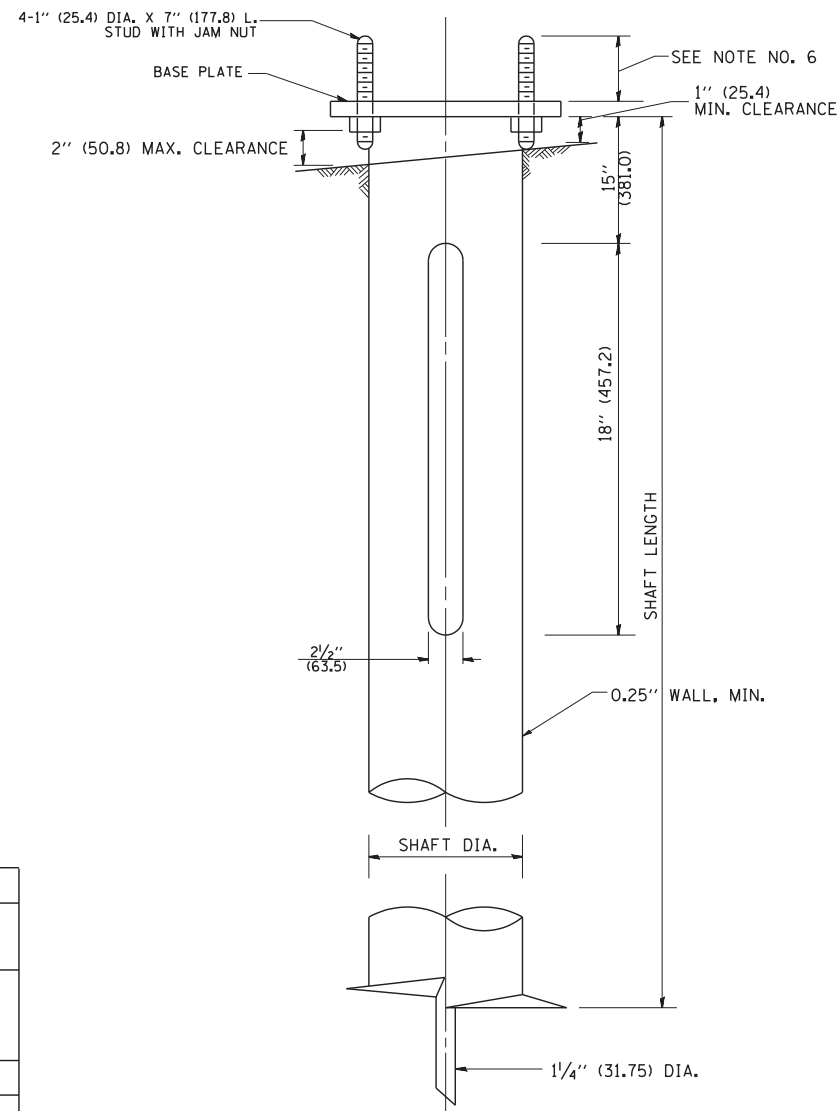
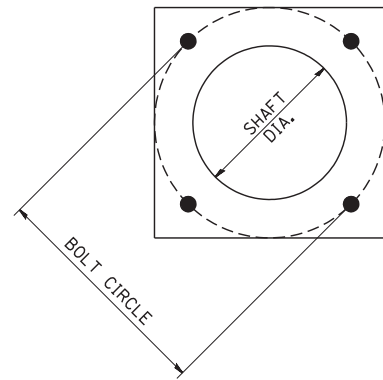
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION

40' (12.192 m) TO 47' 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	355
BE-301		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



HELIX FOUNDATION SIZE

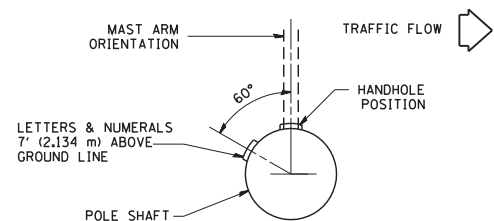
POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	1 1/2"	8 5/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	1 1/2"	8 5/8"	6 FT.	12"x12"x1"
36 FT.-40FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

METAL HELIX FOUNDATION MATERIALS

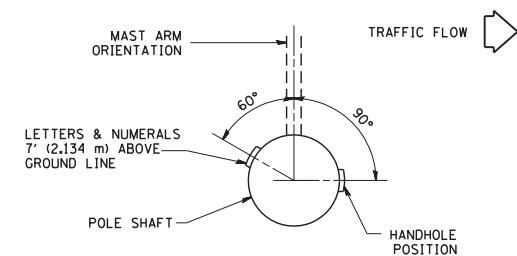
ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

NOTES:

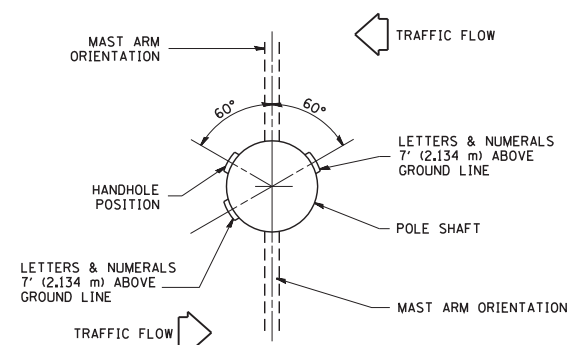
- ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
- ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
- THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
- ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
- METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
- THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
- THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ($\pm 1^\circ$) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
- THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE ($\pm 2^\circ$).
- THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.



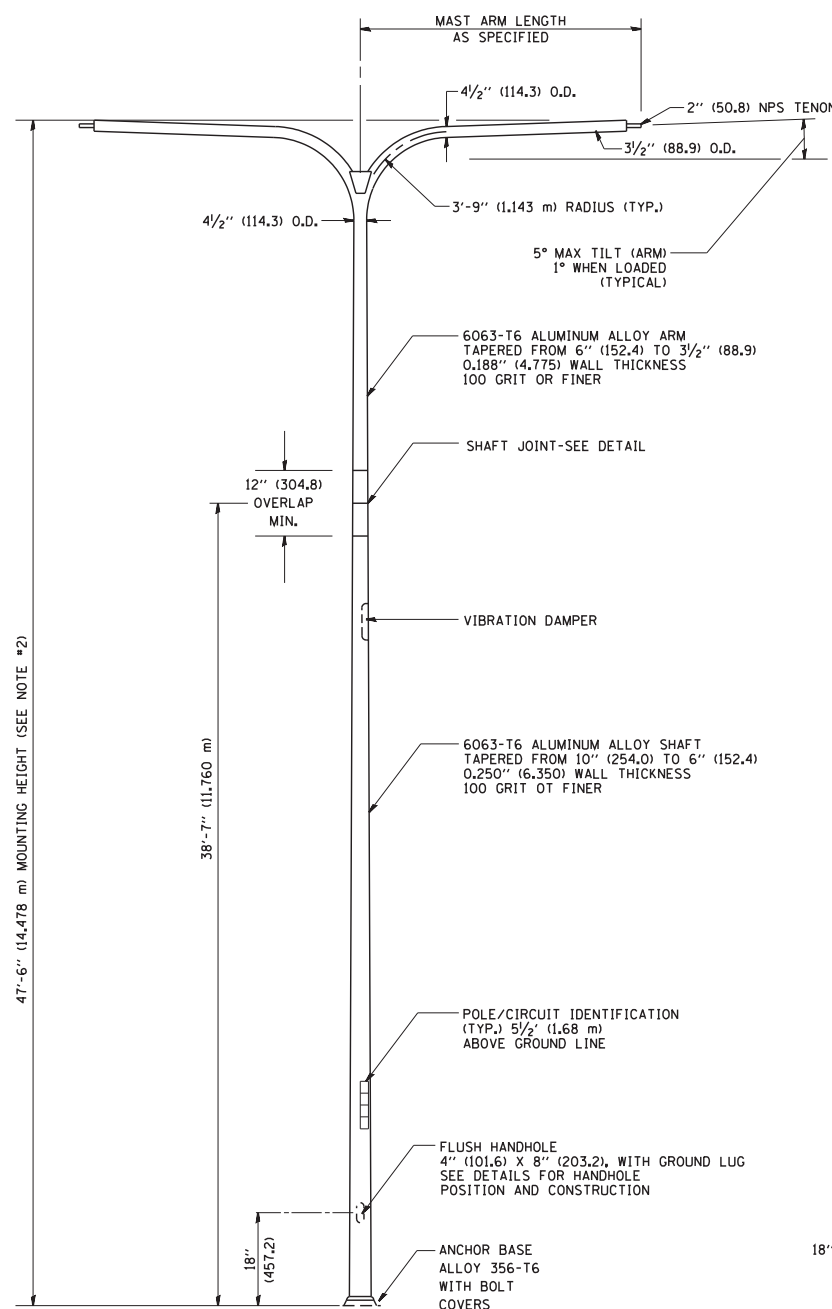
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



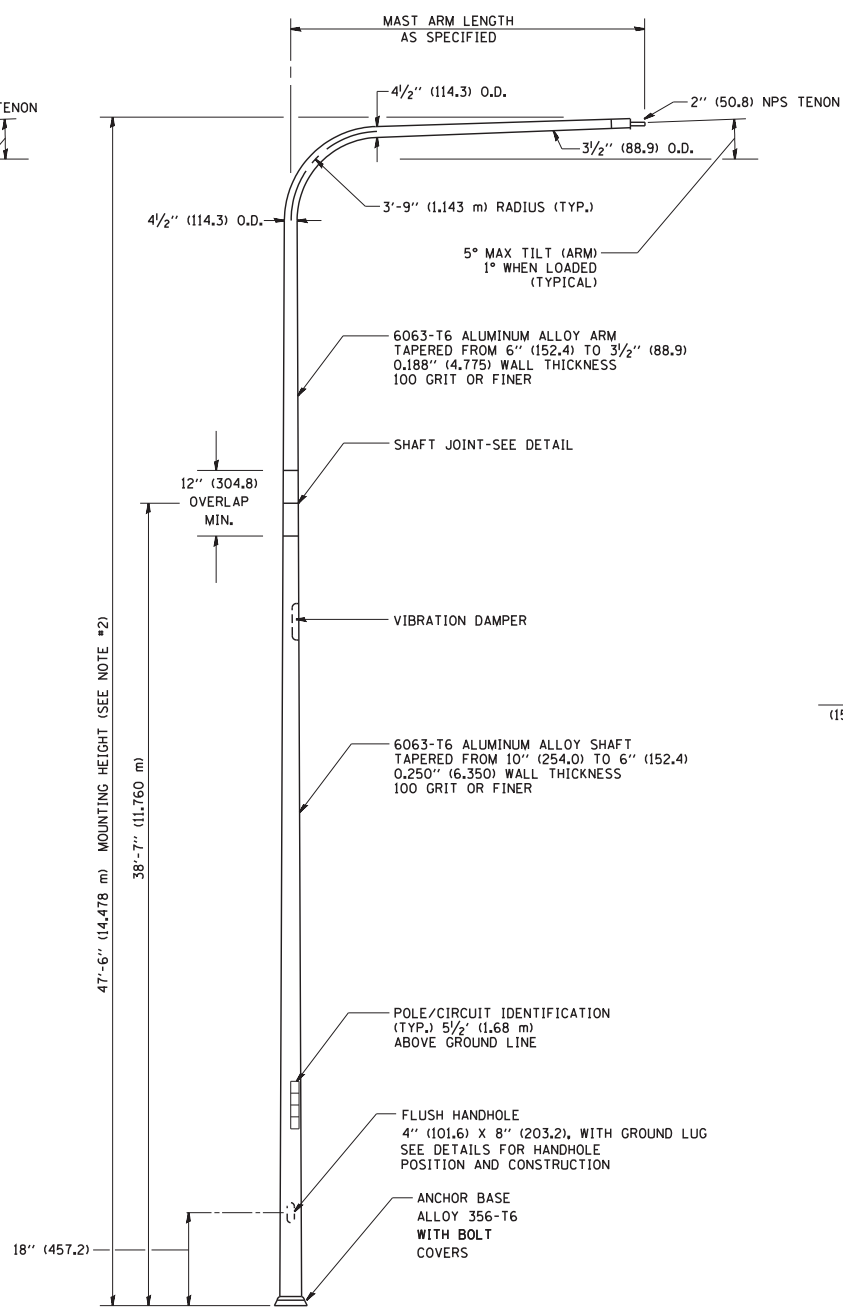
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

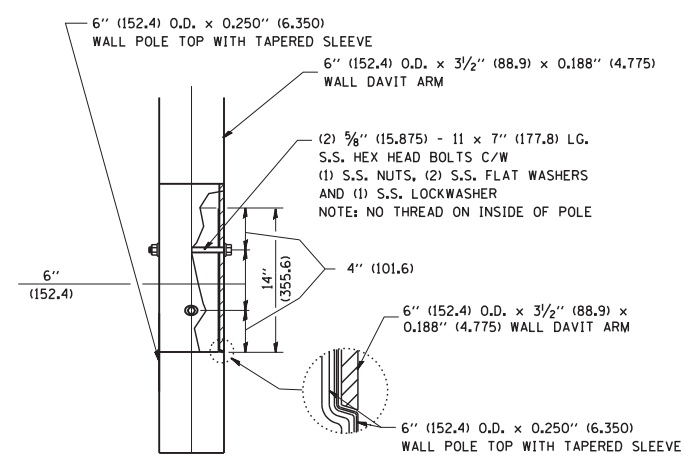


TWIN ARM POLE

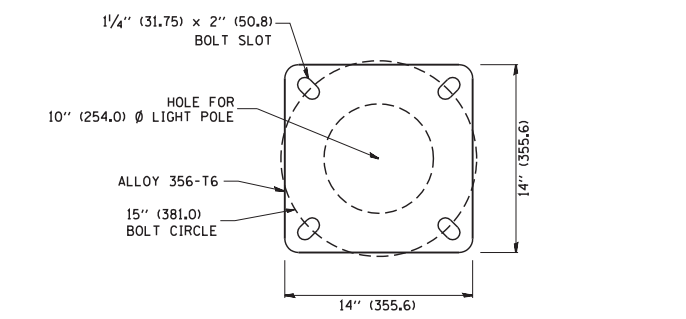


SINGLE ARM POLE

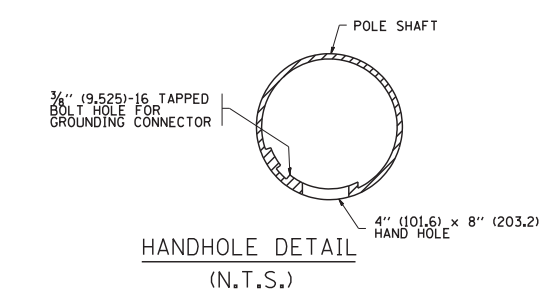
- NOTES:
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE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



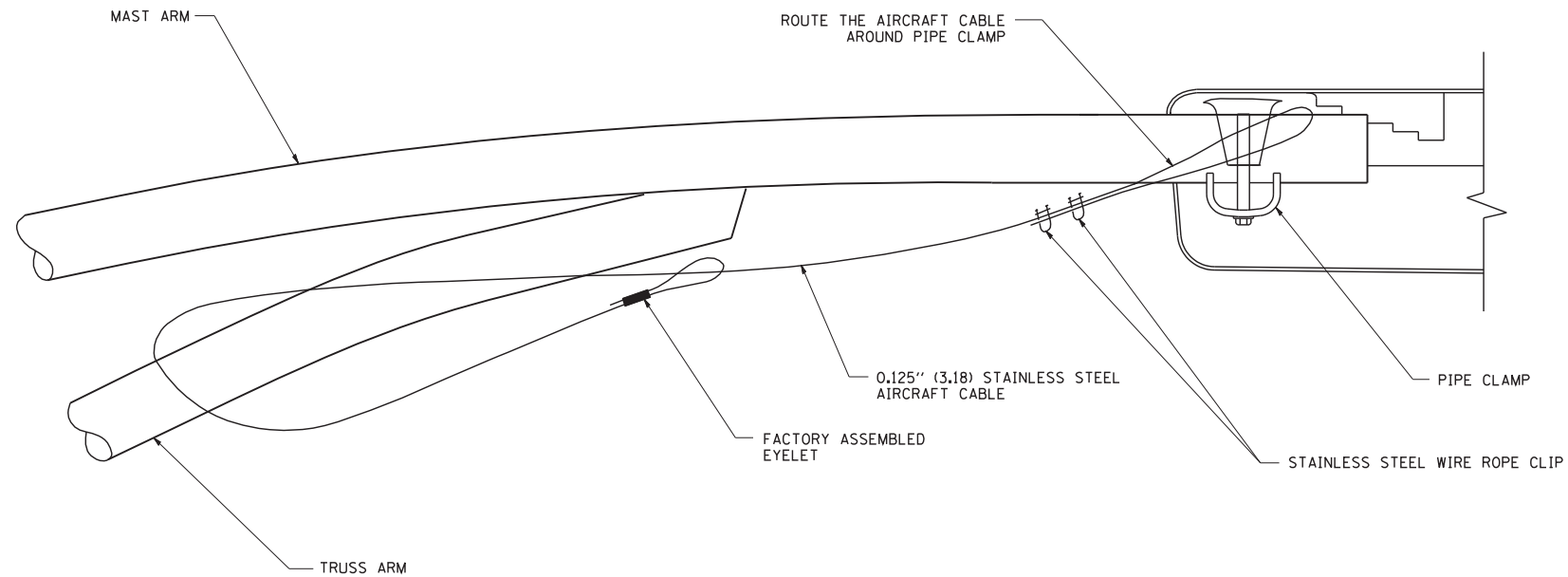
DAVIT ARM CONNECTION
[14" (355.6) OVERLAP SHOWN]



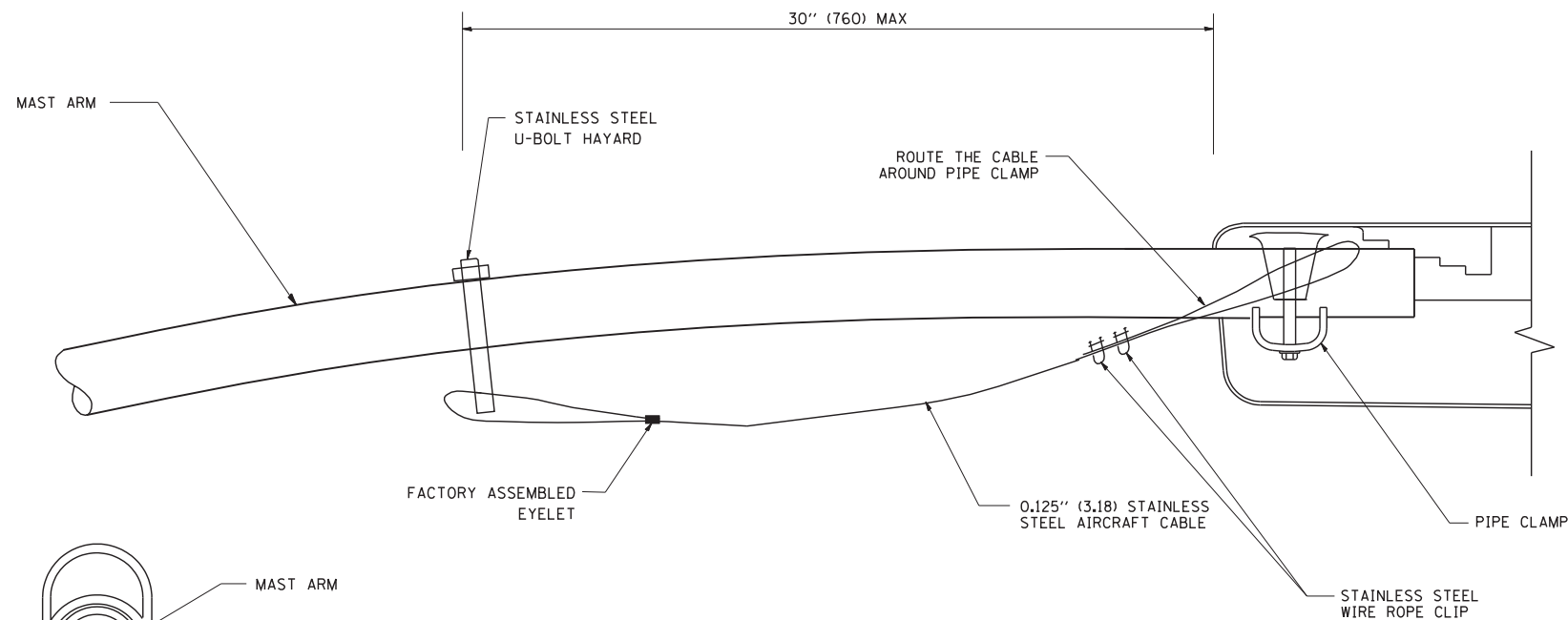
LIGHT POLE BASE PLATE DETAIL
(FOR POLE MOUNTED ON 15 INCH (381.0) BOLT CIRCLE FOUNDATION)



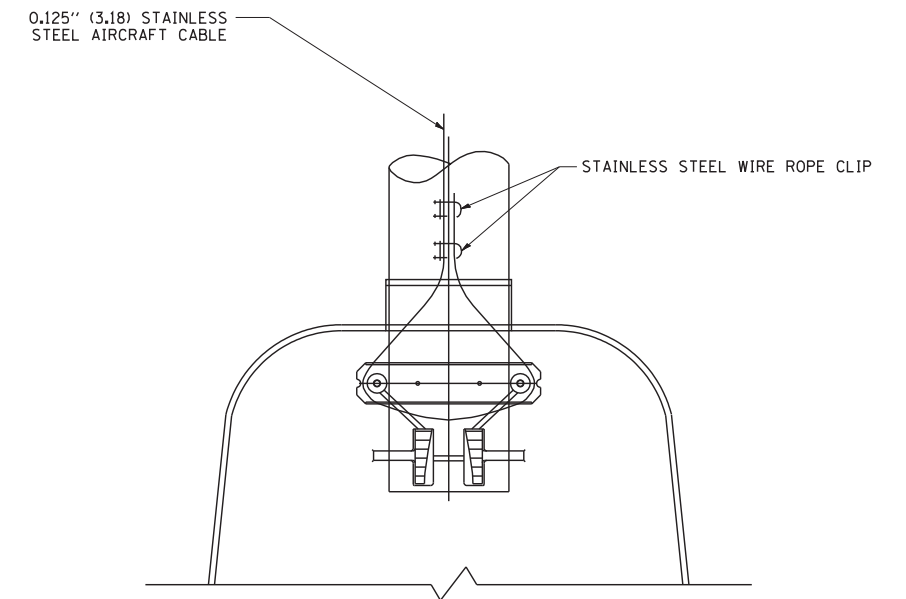
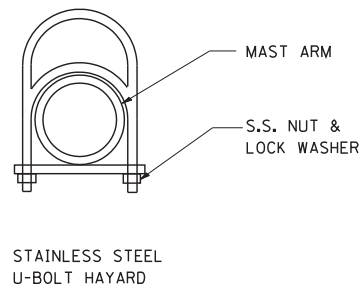
FILE NAME = W:\diststd\22x34\be410.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - D. DREW 04-02-92	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DAVIT LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT			F.A.P. RTE. 349	SECTION 11 WRS-3	COUNTY KENDALL	TOTAL SHEETS 527	SHEET NO. 357
	PLOT SCALE = 50.0000' / IN.	DRAWN - LEY	REVISED - D. DREW 05-07-92		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BE-410		CONTRACT NO. 60132		
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - R. TOMSONS 09-06-00		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE -	REVISED - R. TOMSONS 09-02-03									



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



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

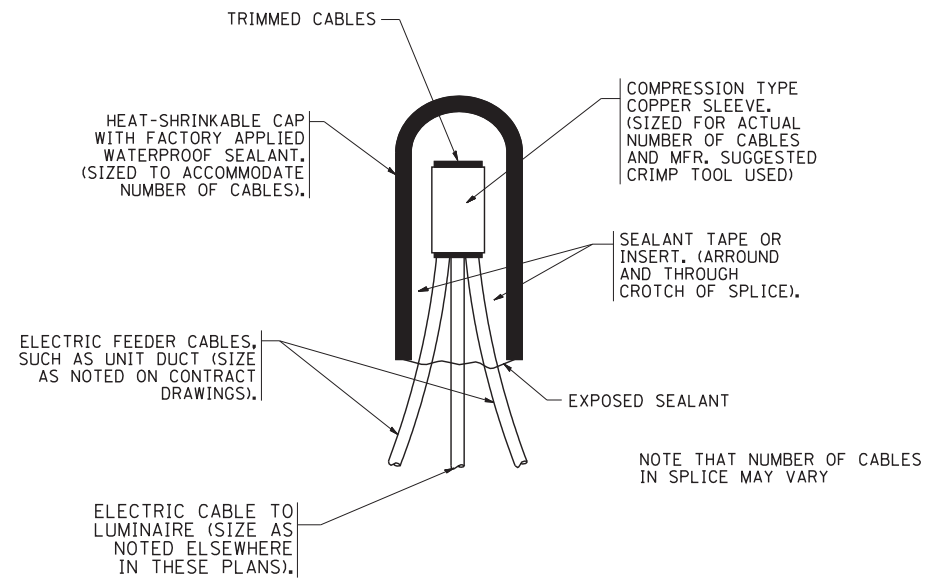


BOTTOM VIEW
N.T.S.

NOTES:

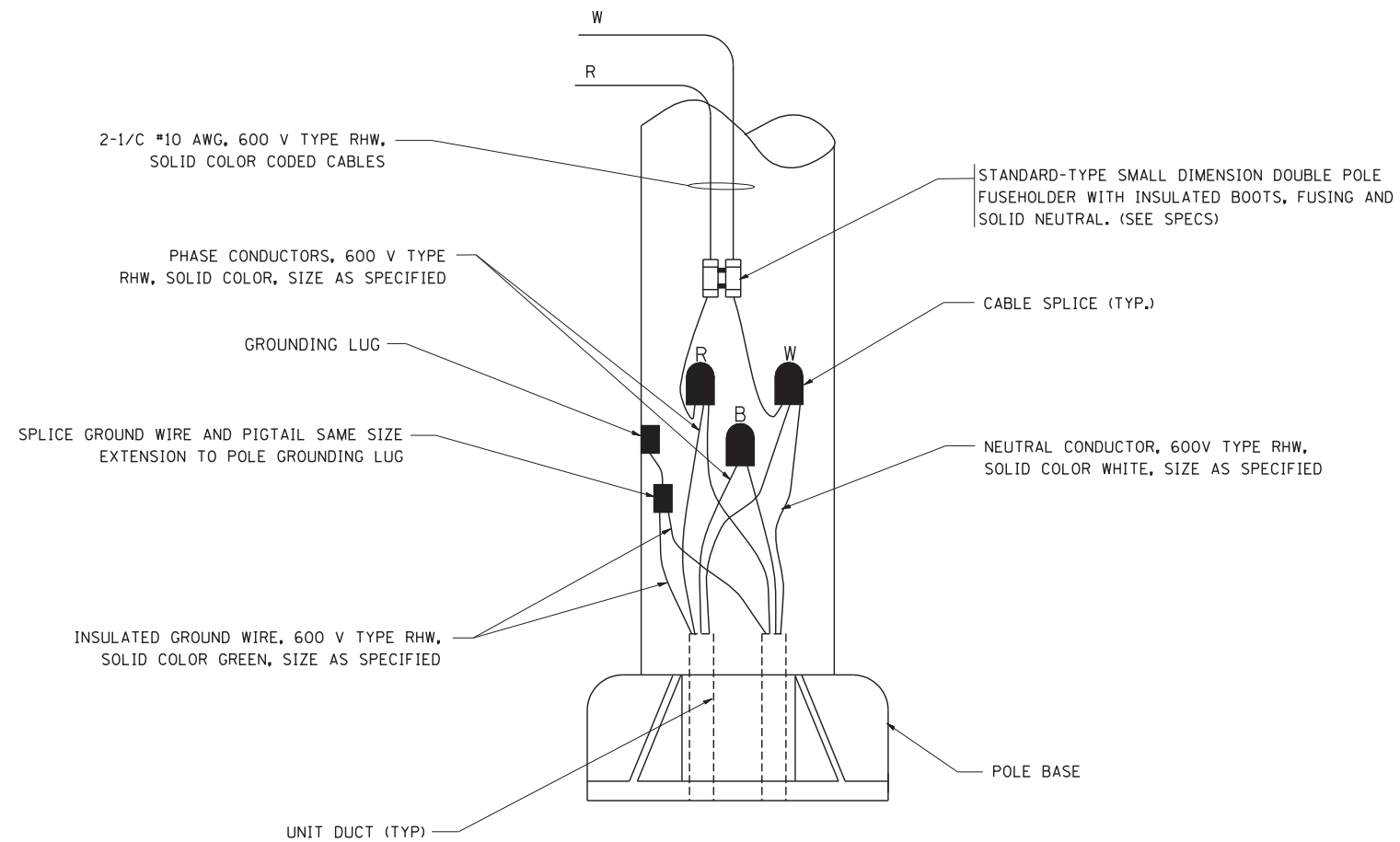
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

FILE NAME = W:\diststd\22x34\be701.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LUMINAIRE SAFETY CABLE ASSEMBLY			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -					349	11 WRS-3	KENDALL	527	358
PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-701		CONTRACT NO.	60132	
								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



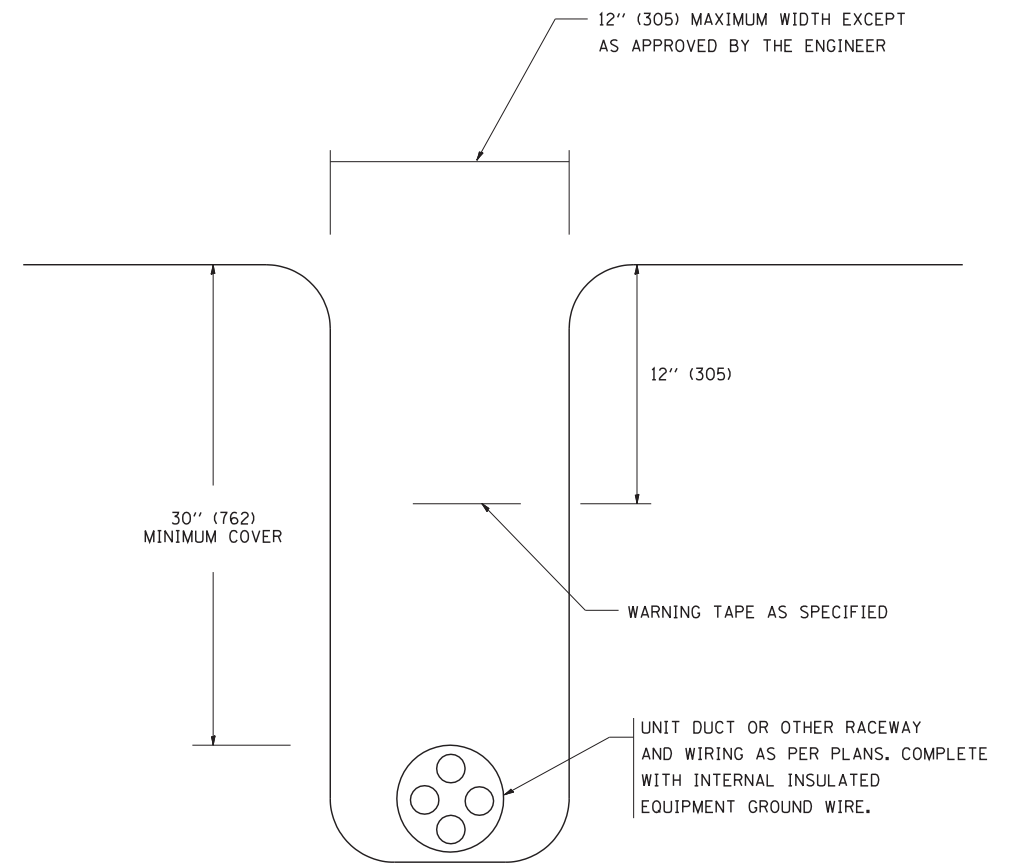
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

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

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

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

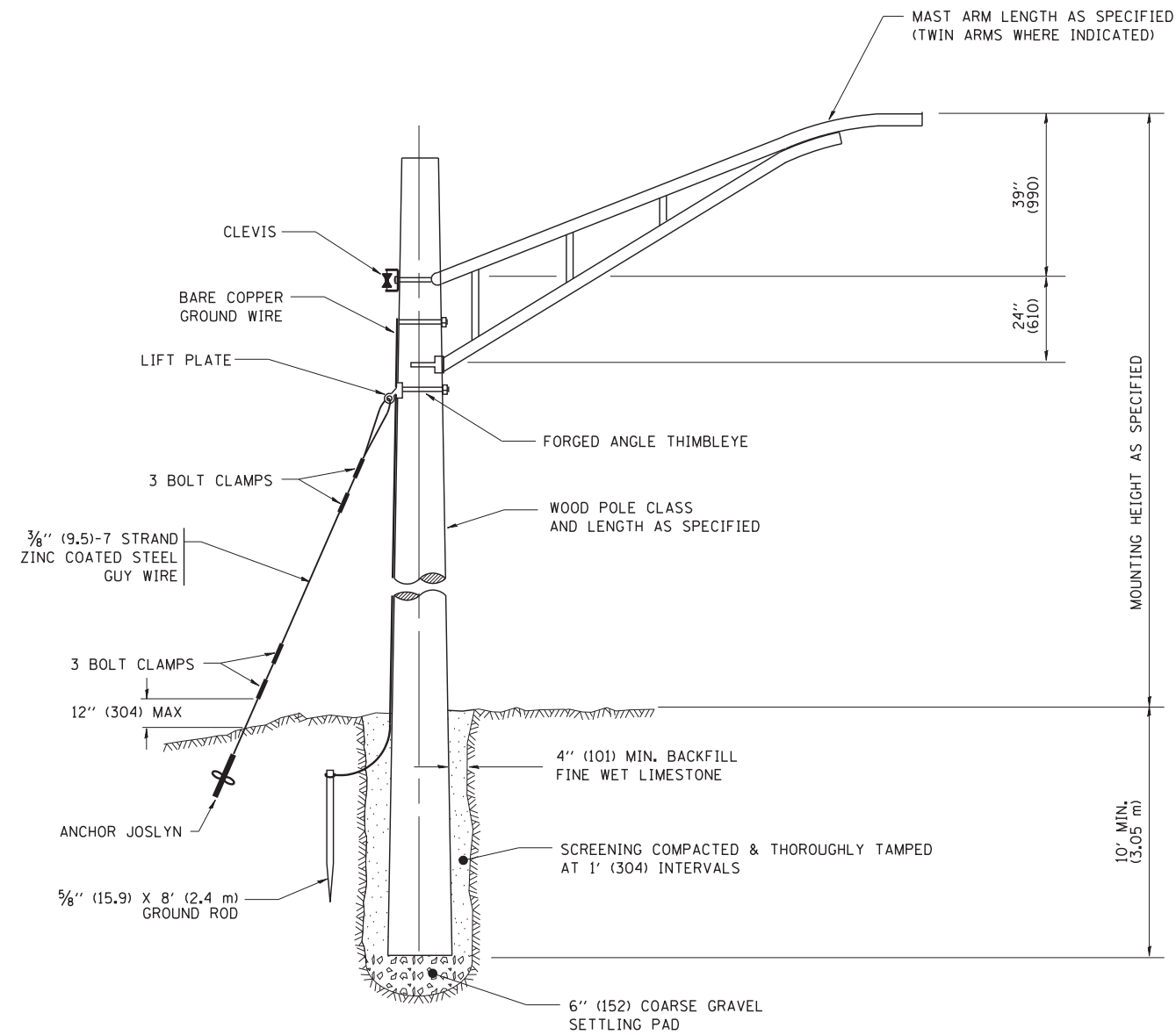
REVISED - 08-08-03
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

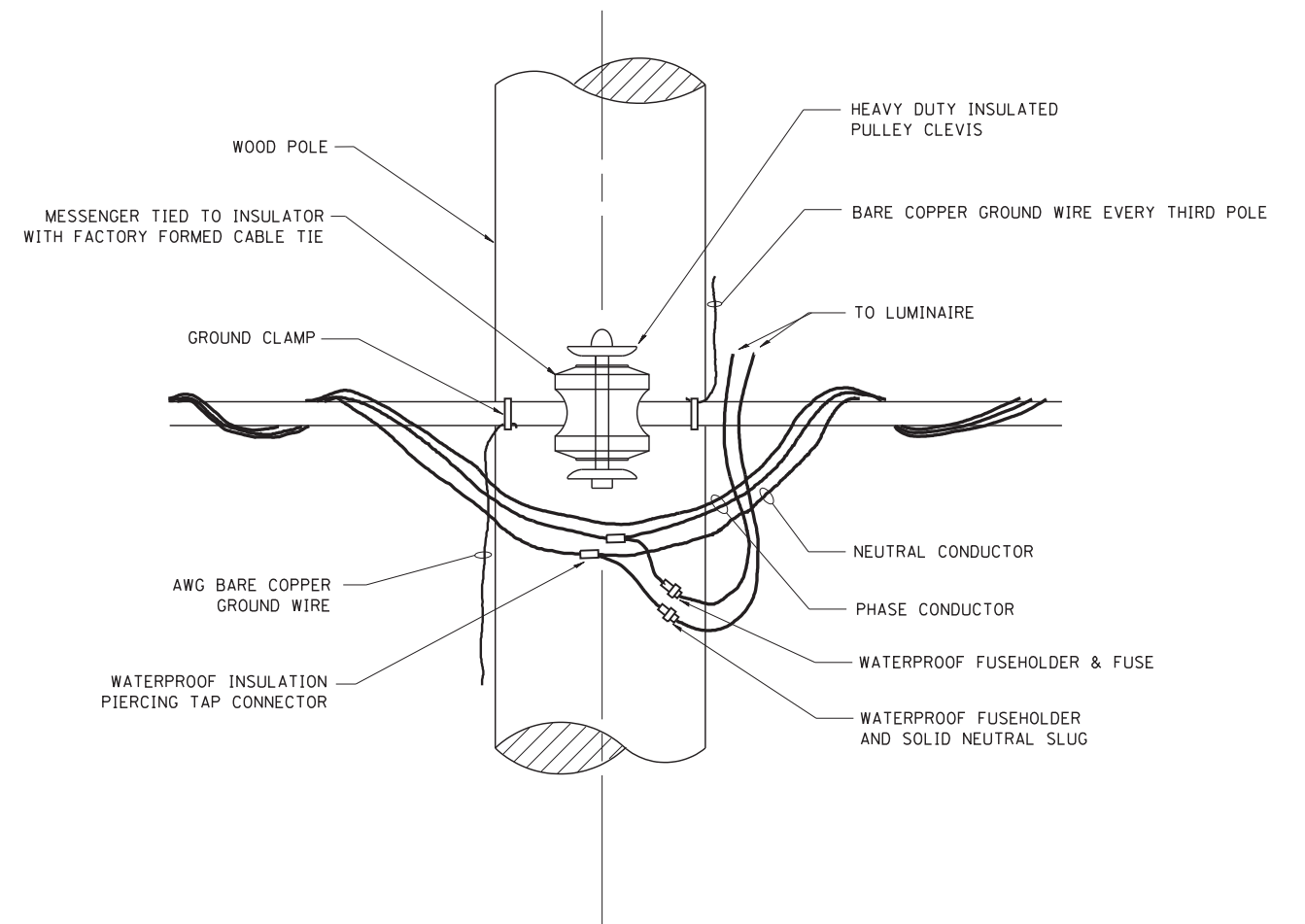
**MISC. ELECTRICAL DETAILS
 SHEET A**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	359
BE-702		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TEMPORARY LIGHT POLE DETAIL



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

FILE NAME =
W:\diststd\22x34\be800.dgn

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

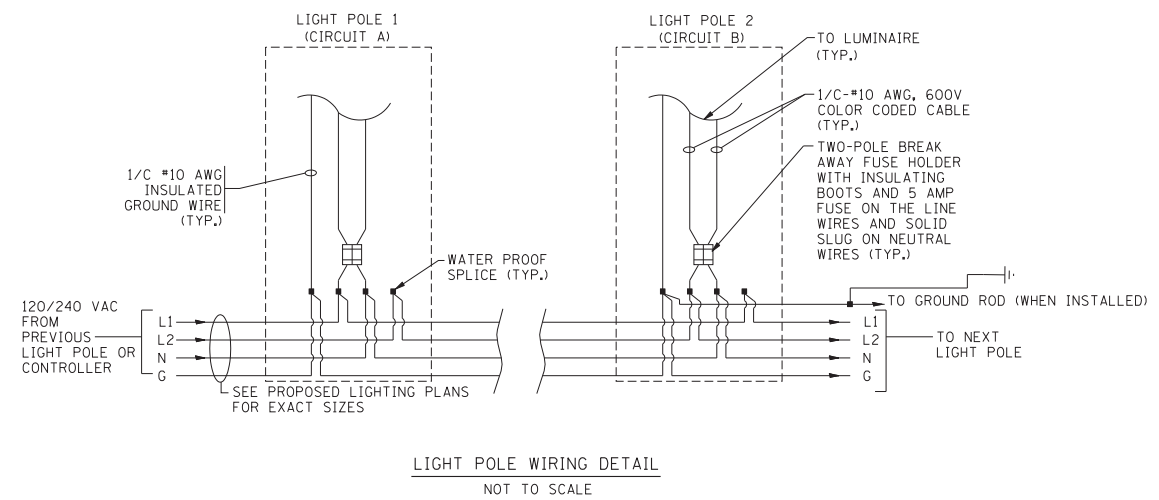
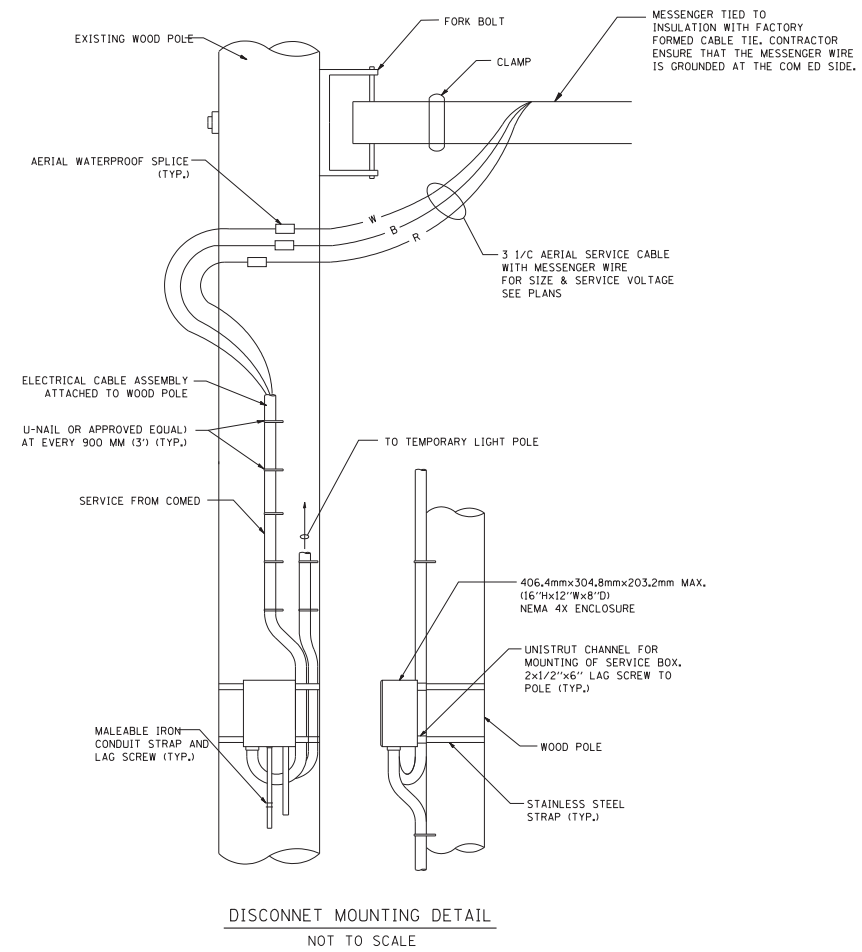
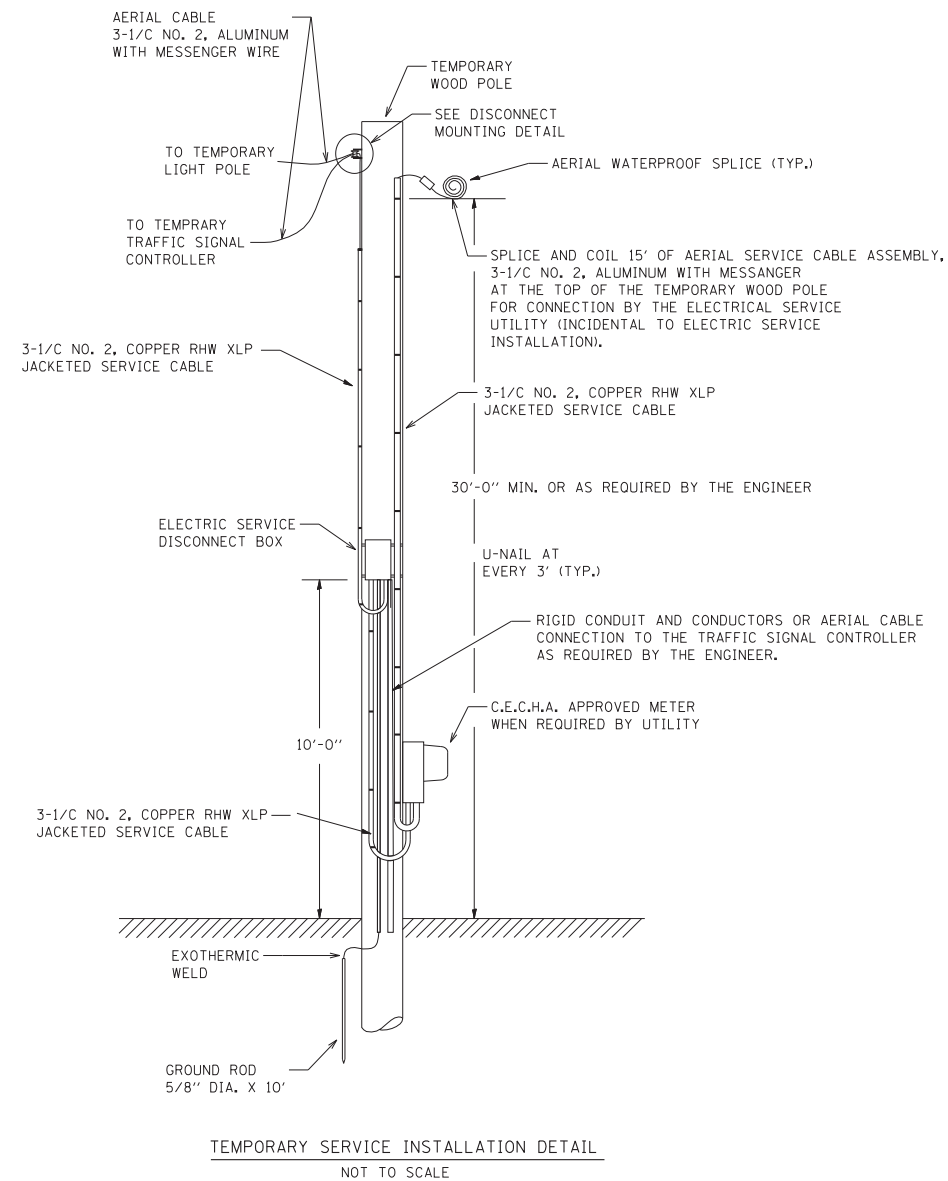
DESIGNED -	REVISED - 08-08-03
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY LIGHT POLE DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	360
BE-800			CONTRACT NO. 60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



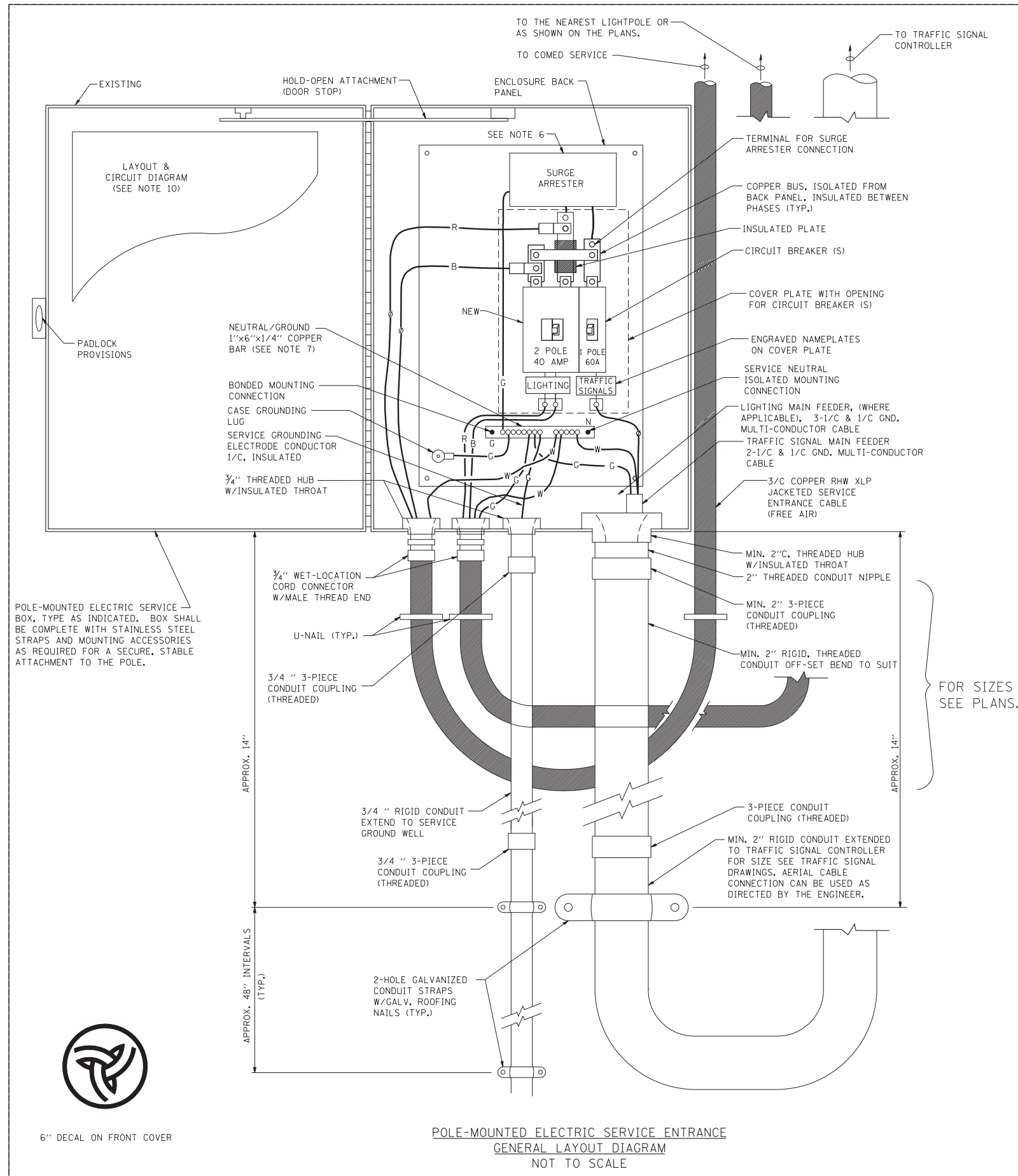
FILE NAME =	USER NAME = bauerdl	DESIGNED - MP	REVISED -
ct:\pw\work\PWIDOT\BAUERDL\d0108315\be805.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - 01/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING AND TRAFFIC SIGNALS
FOR SINGLE LANE STAGING**

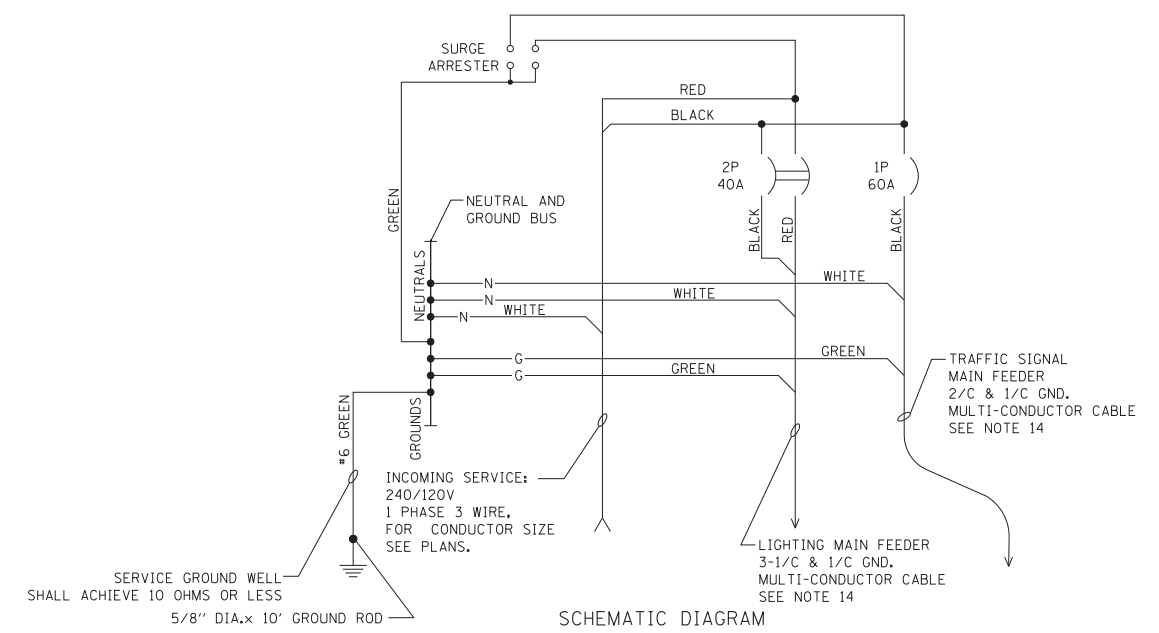
SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	361
BE-805		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

- ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
- THE POLE-MOUNTED ELECTRIC SERVICE BOX SHALL BE CONFIGURED AND FULLY EQUIPPED FOR 240/120V 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER AND TRAFFIC SIGNALS MAIN BREAKER AS REQUIRED.
- THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
- THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12"W X 16"H X 8"D, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H1208SS6LP/A-16 P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
- CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
- THE SURGE PROTECTOR SHALL BE SUITABLE FOR THE SERVICE VOLTAGE SINGLE PHASE 60HZ AC, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CM0V230L065XST OR APPROVED EQUAL.
- BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
- THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
- THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
- A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
- A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
- LUGS AND CONNECTORS SHALL BE RATED FOR 75 C CONDUCTOR.
- THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.



SCHEMATIC DIAGRAM

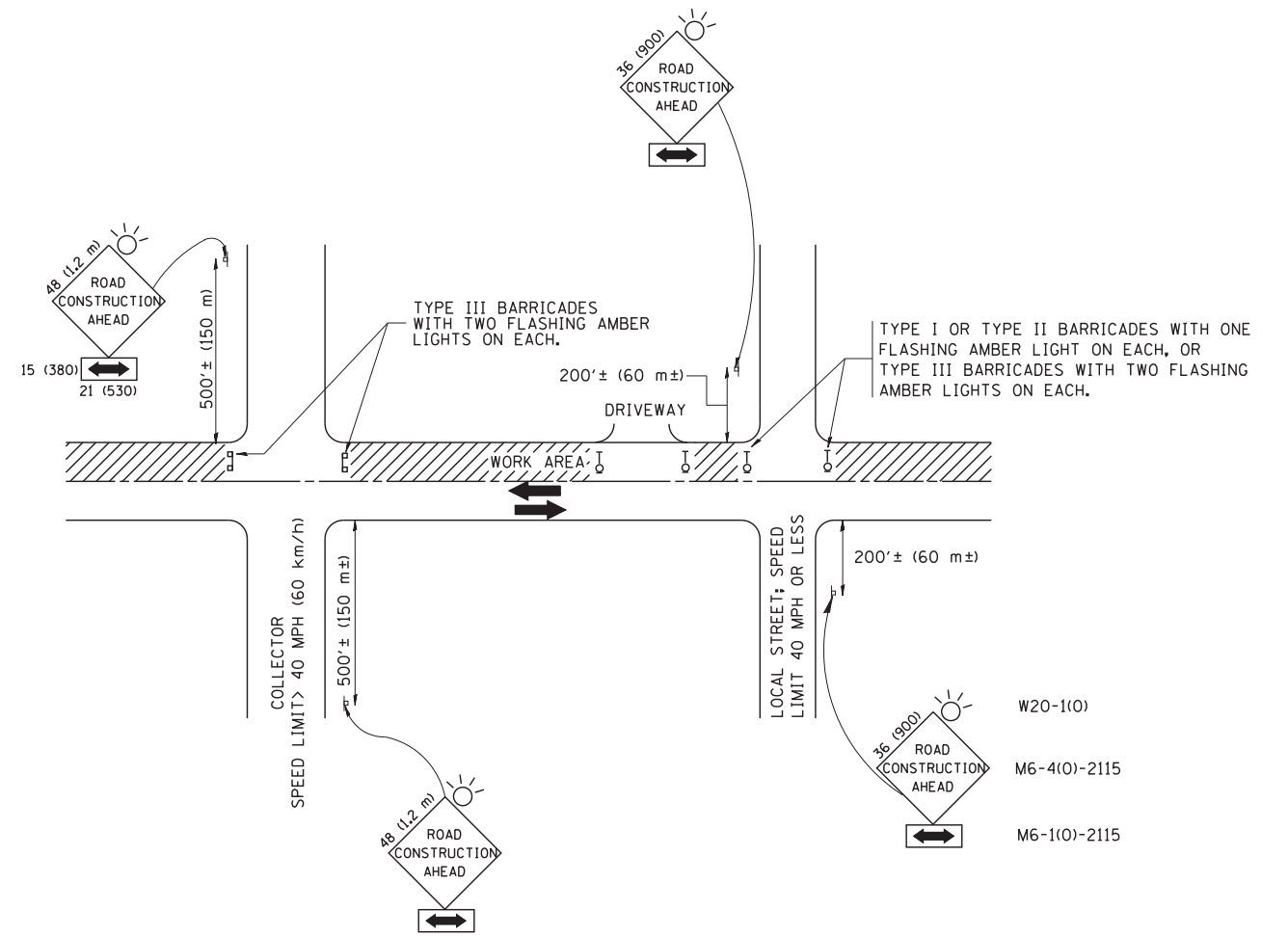
**POLE-MOUNTED ELECTRIC SERVICE ENTRANCE
GENERAL LAYOUT DIAGRAM
NOT TO SCALE**

FILE NAME =	USER NAME = bauerdl	DESIGNED - MP	REVISED -
ct:\pwork\PWIDOT\BAUERDL\d0108315\be805.dgn		DRAWN -	REVISED -
PLOT SCALE = 50.000' / IN.		CHECKED -	REVISED -
PLOT DATE = 1/14/2010		DATE - 01/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY LIGHTING AND TRAFFIC SIGNALS FOR SINGLE LANE STAGING			
SCALE: NONE	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	362
BE-805		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

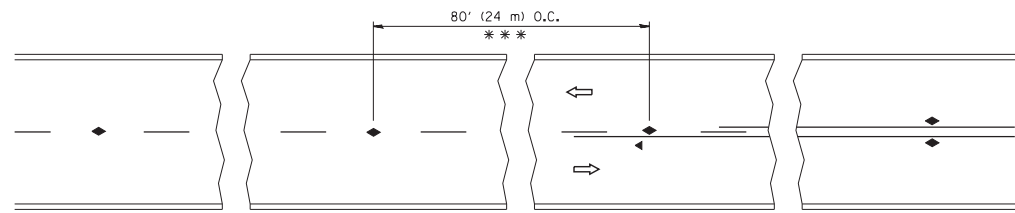
FILE NAME = W:\diststd\22x34\tc10.dgn	USER NAME = gegl10nbt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACH 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

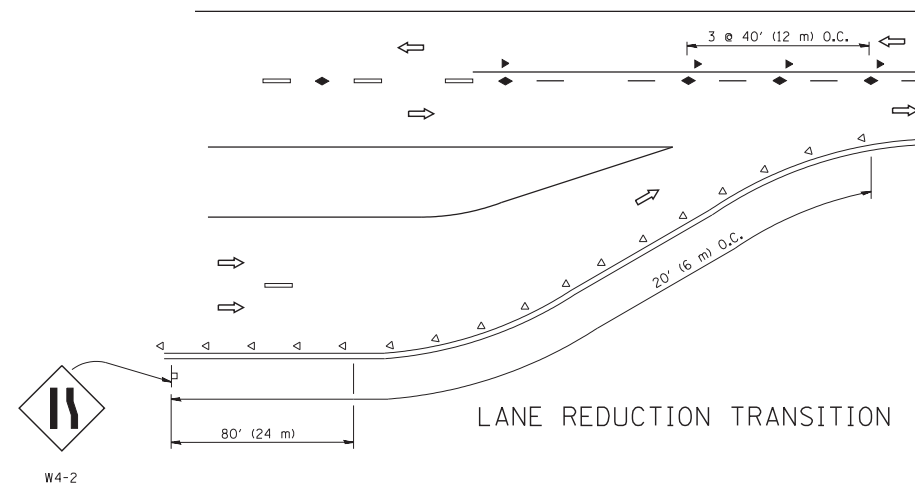
TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

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

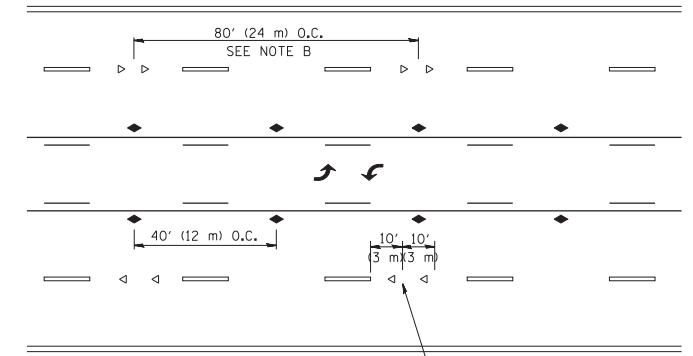
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	363
TC-10		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



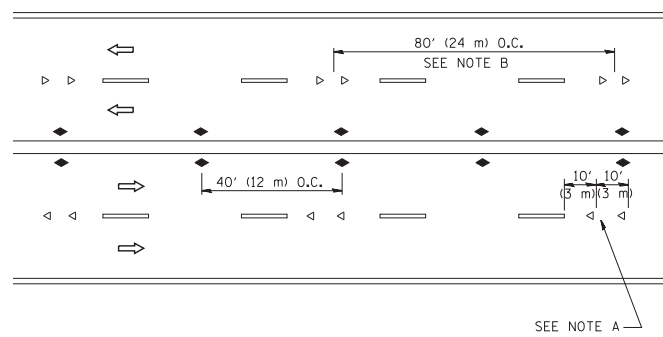
TWO-LANE/TWO-WAY



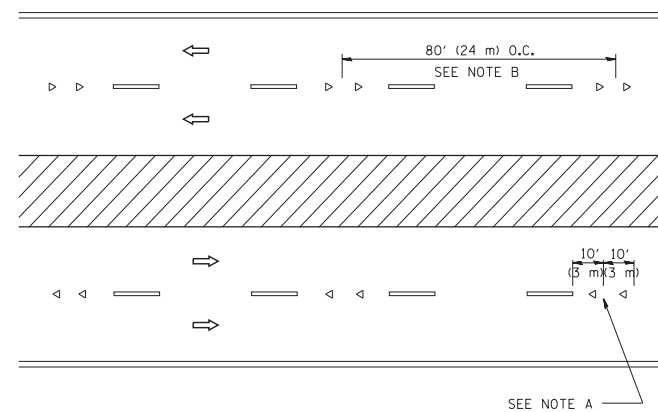
LANE REDUCTION TRANSITION



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

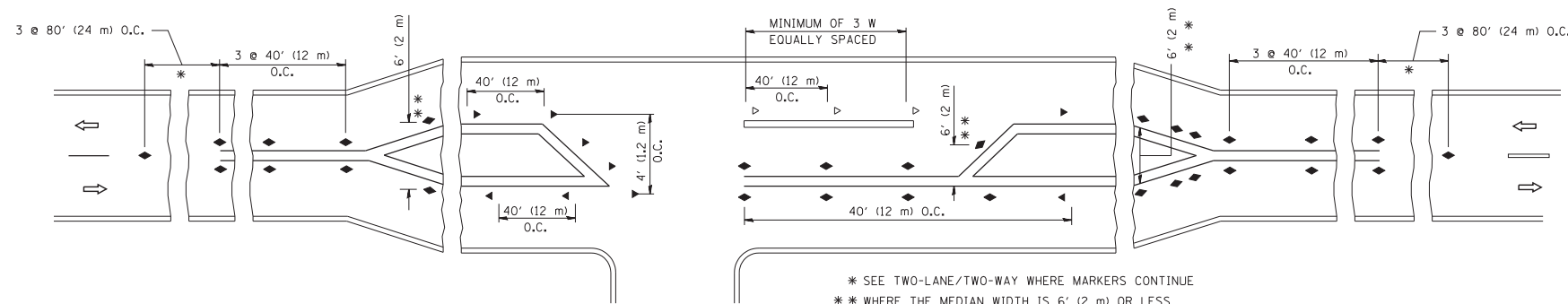
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



LEFT TURN

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

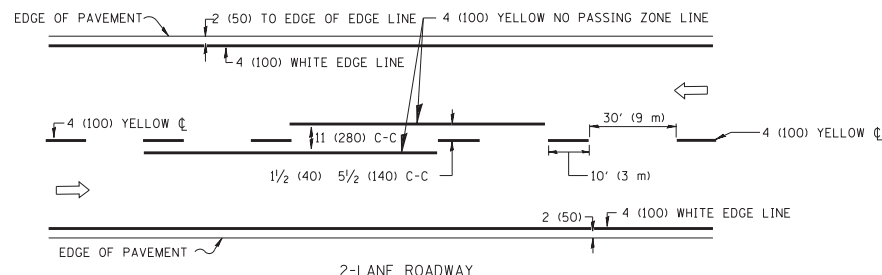
FILE NAME =	USER NAME = lryso	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
ct:\pw\work\p\dot\lryso\d0108315\tc11.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

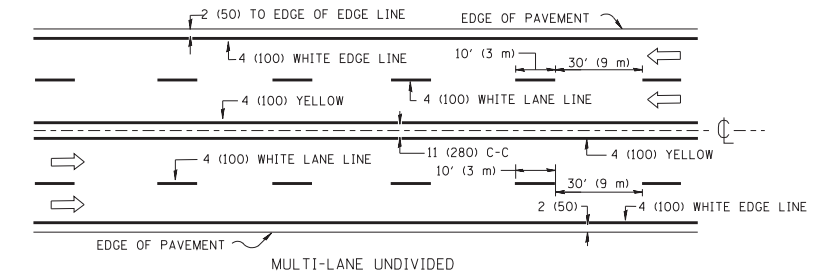
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

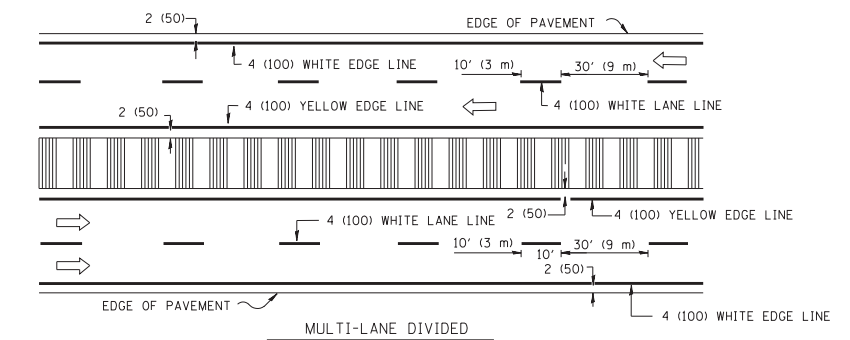
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	364
TC-11		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY



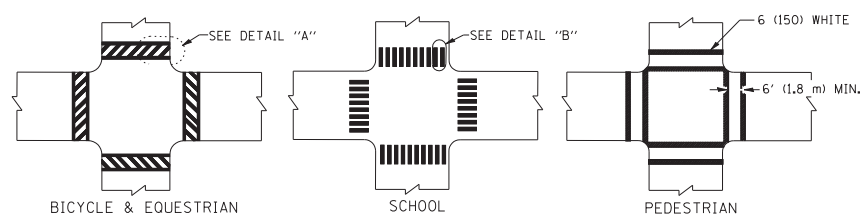
MULTI-LANE UNDIVIDED



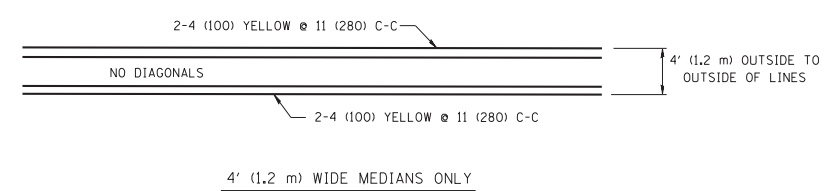
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

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

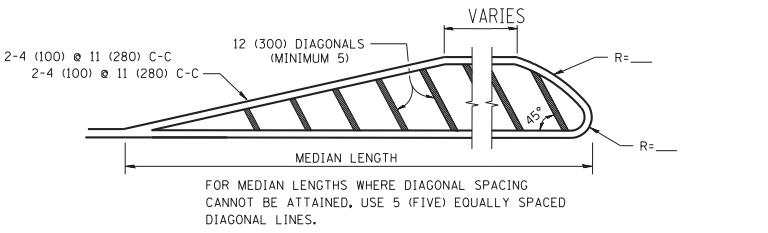
TYPICAL LANE AND EDGE LINE MARKING



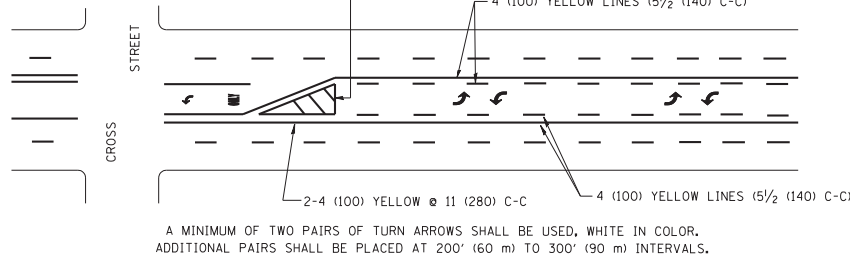
TYPICAL CROSSWALK MARKING



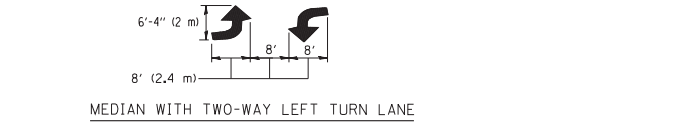
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

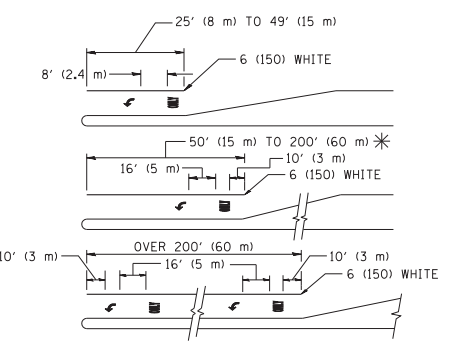


TYPICAL PAINTED MEDIAN MARKING



MEDIAN WITH TWO-WAY LEFT TURN LANE

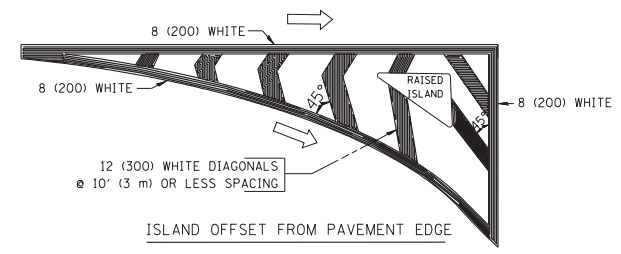
TYPICAL PAINTED MEDIAN MARKING



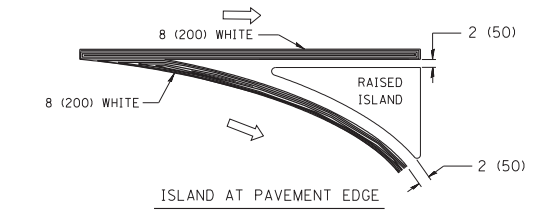
TYPICAL LEFT (OR RIGHT) TURN LANE

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * 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 TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

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

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

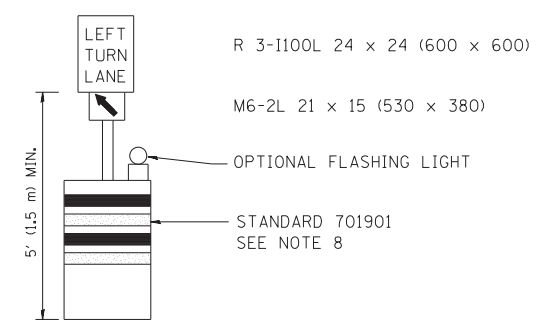
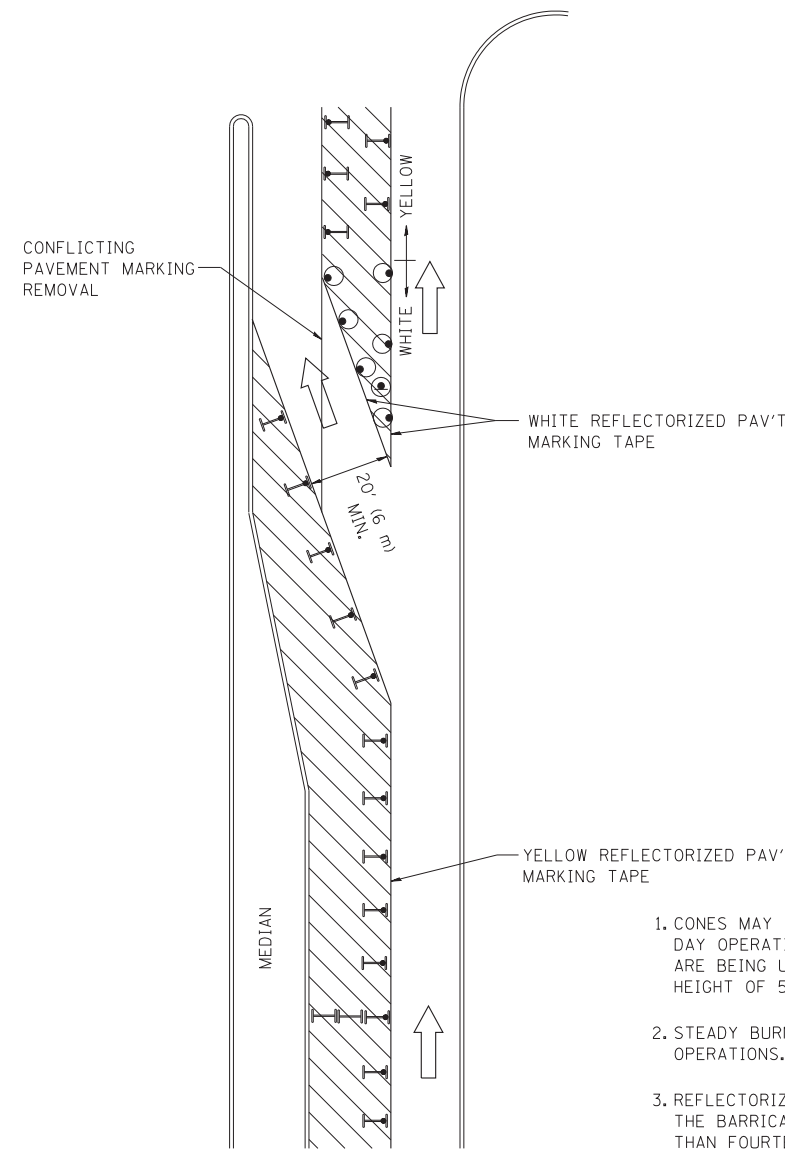
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
ca:\pw\work\p1dot\drivakosgn\d0108315\to3.dgn		DRAWN -	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	365
TC-13		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				









GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II 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 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

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

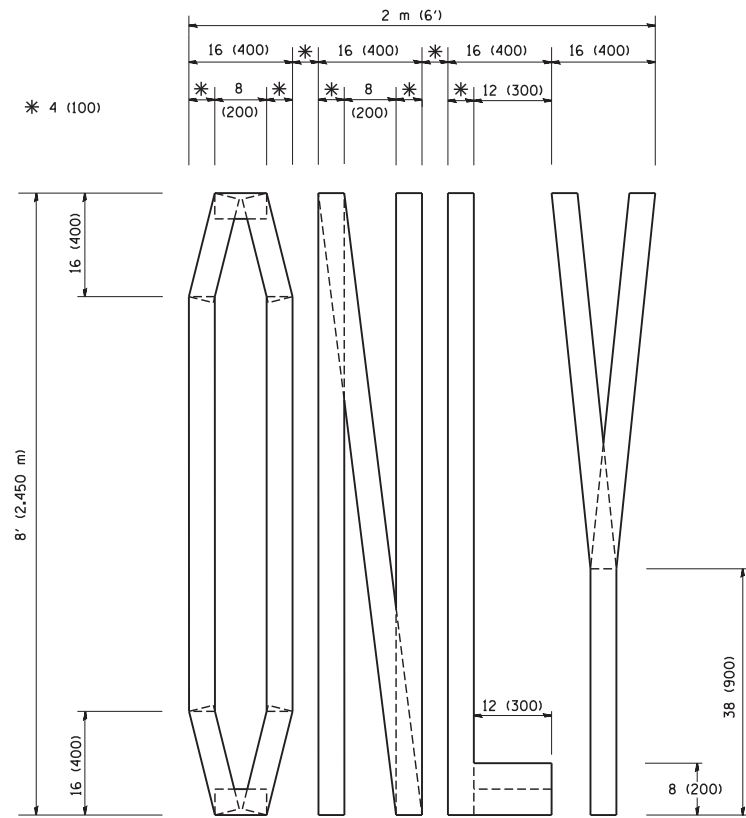
FILE NAME =	USER NAME = drivakosgn	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
ct:\pw\work\PWIDOT\DRIVAKOSGN\d0108315\14.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -
		REVISED - A. HOUSEH 10-12-96	REVISED -
		REVISED -T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

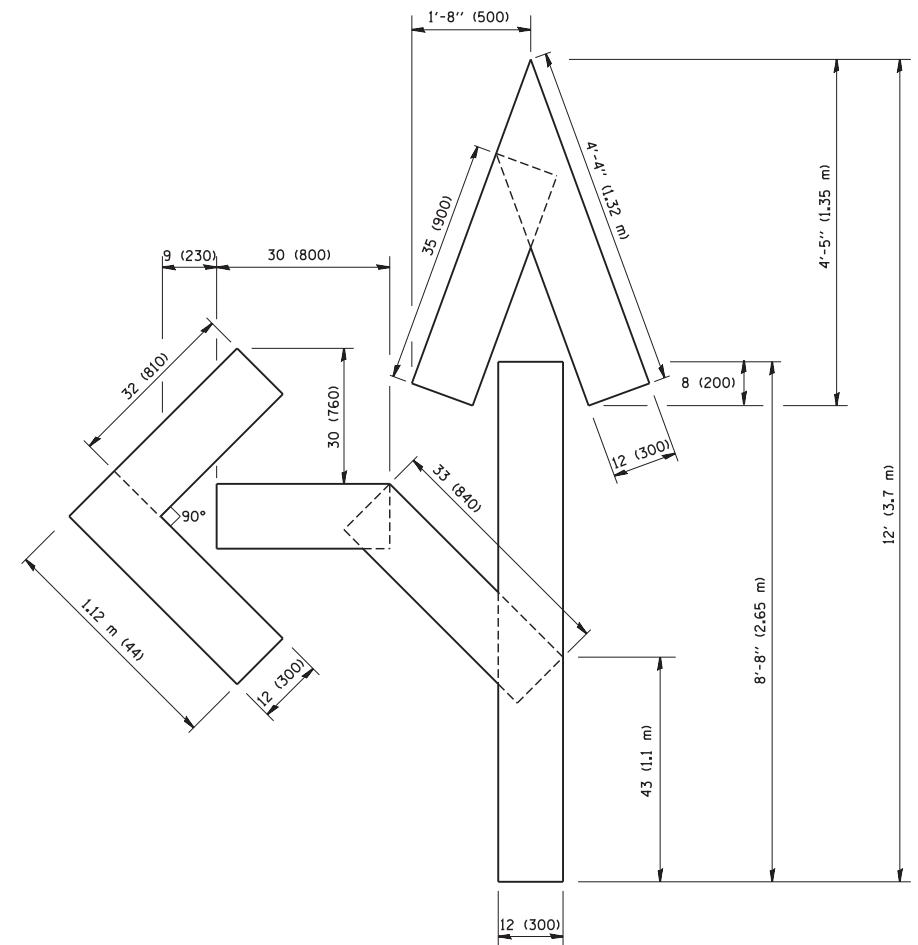
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

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

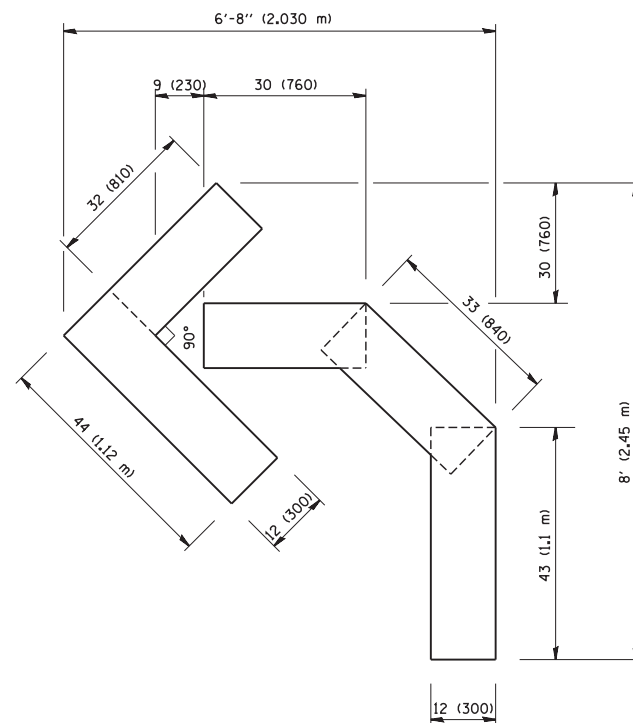
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	366
TC-14		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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\tc16.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
		DRAWN -	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**

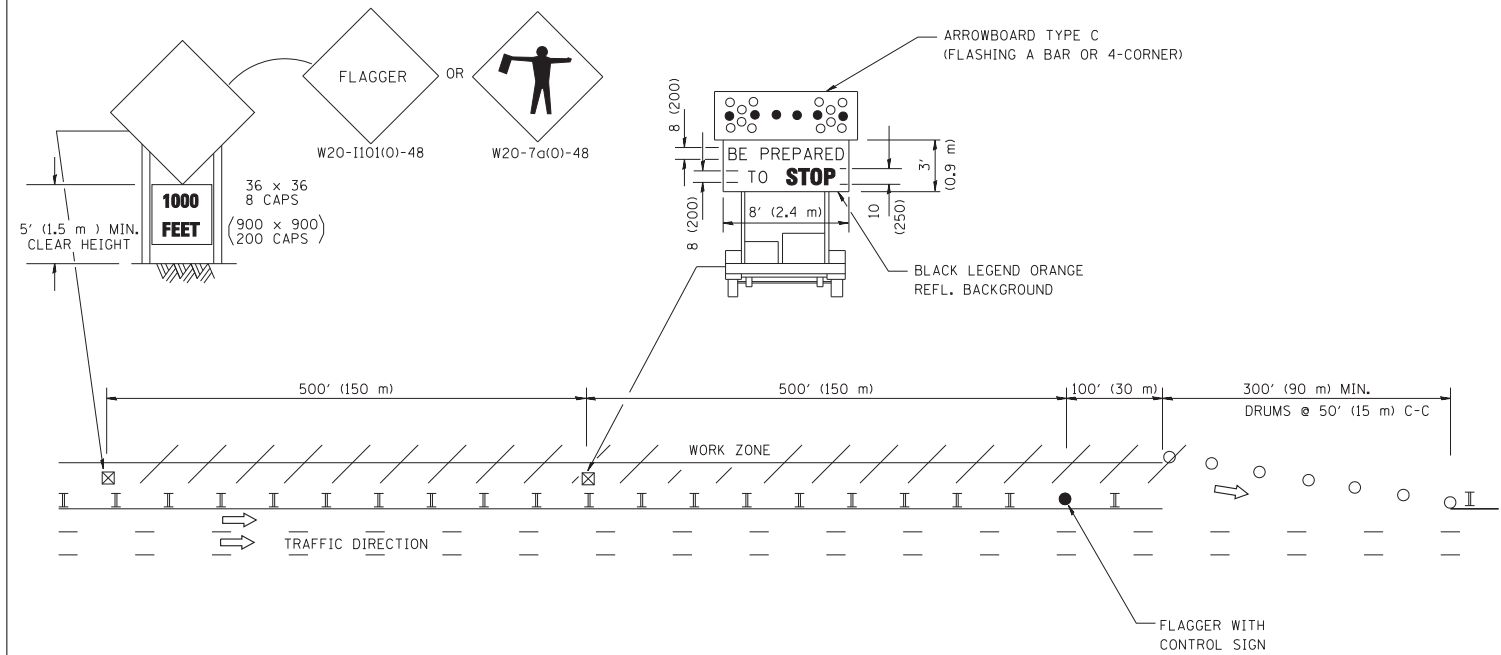
**PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING**

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

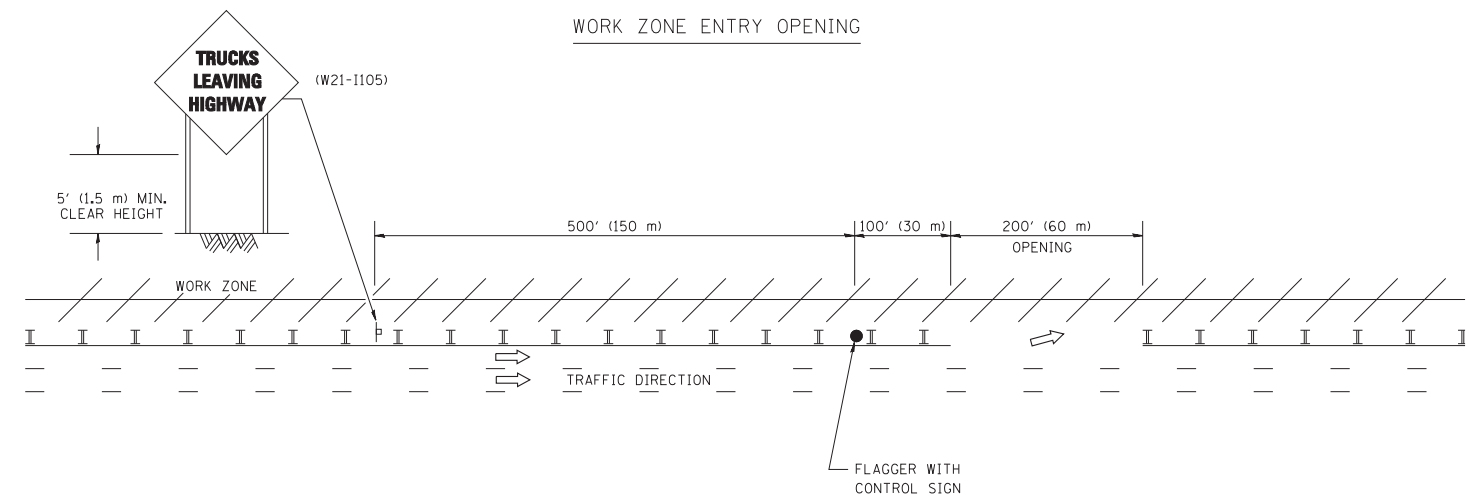
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	367
TC-16		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	368
TC-18		CONTRACT NO. 60132		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
 PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN)
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME = W:\diststd\22x34\tc26.dgn	USER NAME = gegl@nabt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
		DRAWN -	REVISED -
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

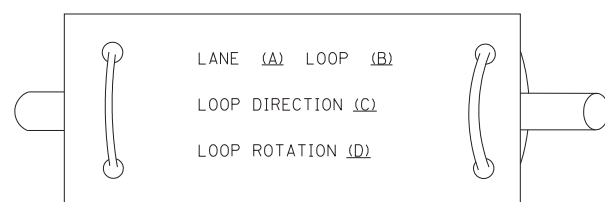
DRIVEWAY ENTRANCE SIGNING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE. 349	SECTION 11 WRS-3	COUNTY KENDALL	TOTAL SHEETS 527	SHEET NO. 370
TC-26		CONTRACT NO. 60132		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

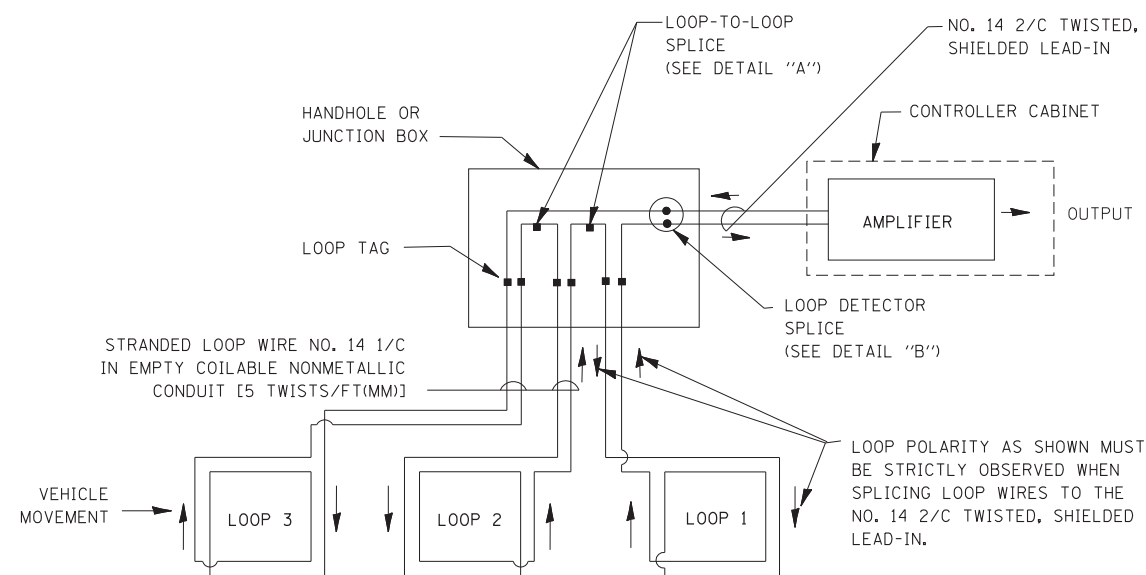
LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

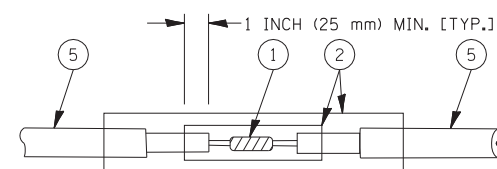


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

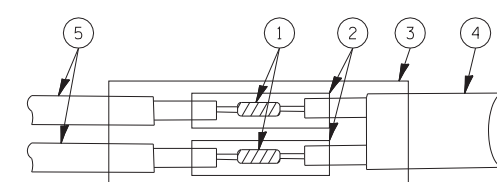


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

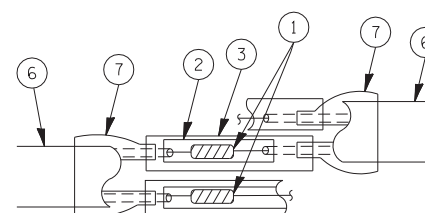


DETAIL "A"
LOOP-TO-LOOP SPLICE

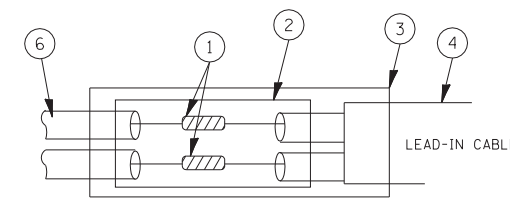


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSM 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = bauerdl	DESIGNED - DAD	REVISED -
ct:\pw\work\PWIDOT\BAUERDL\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

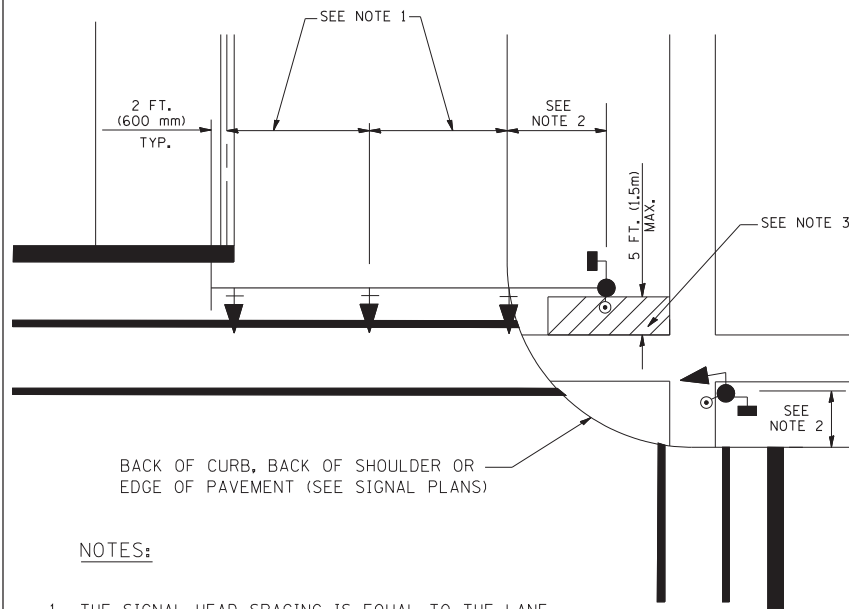
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	371
TS-05			CONTRACT NO.	60132
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

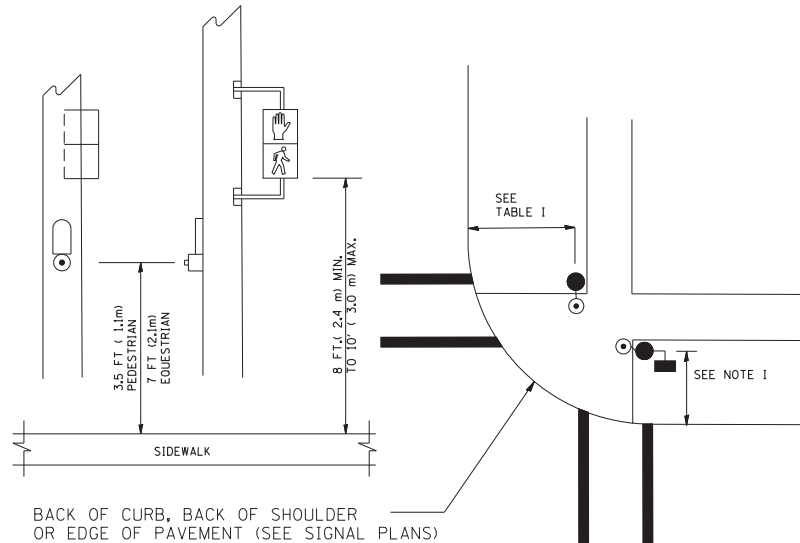
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

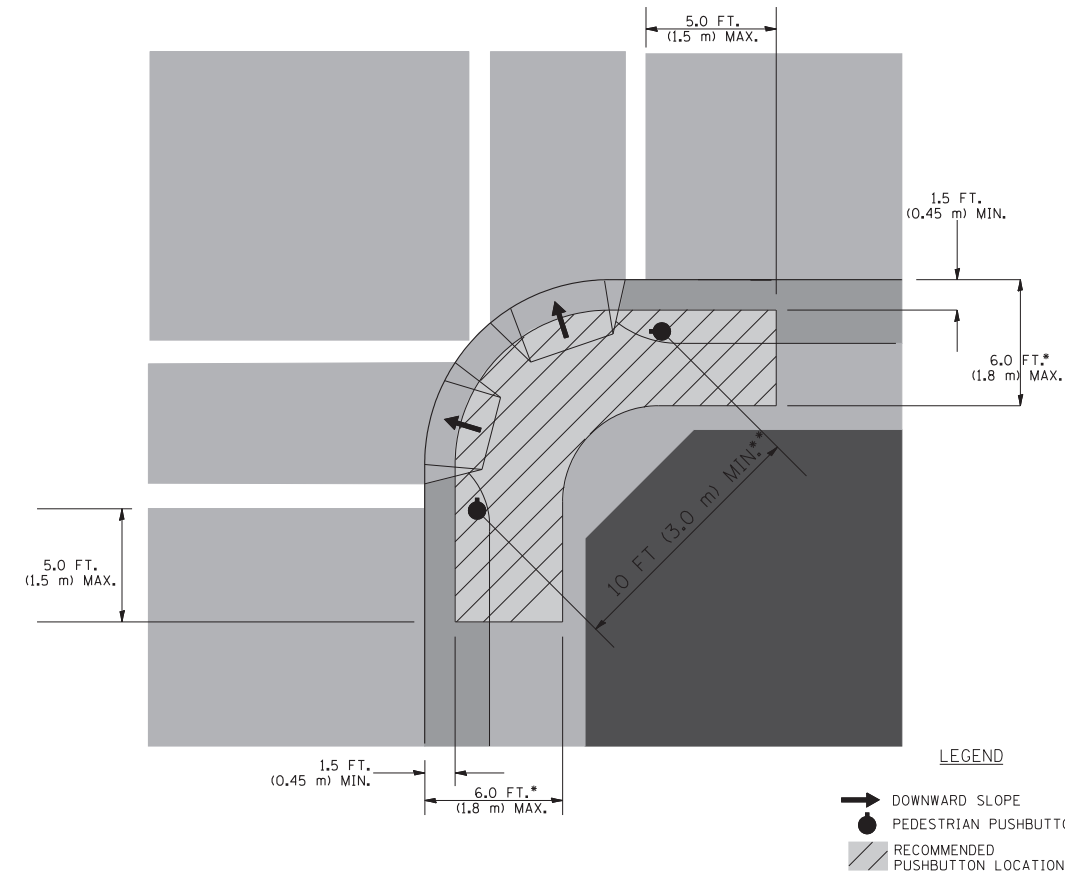
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

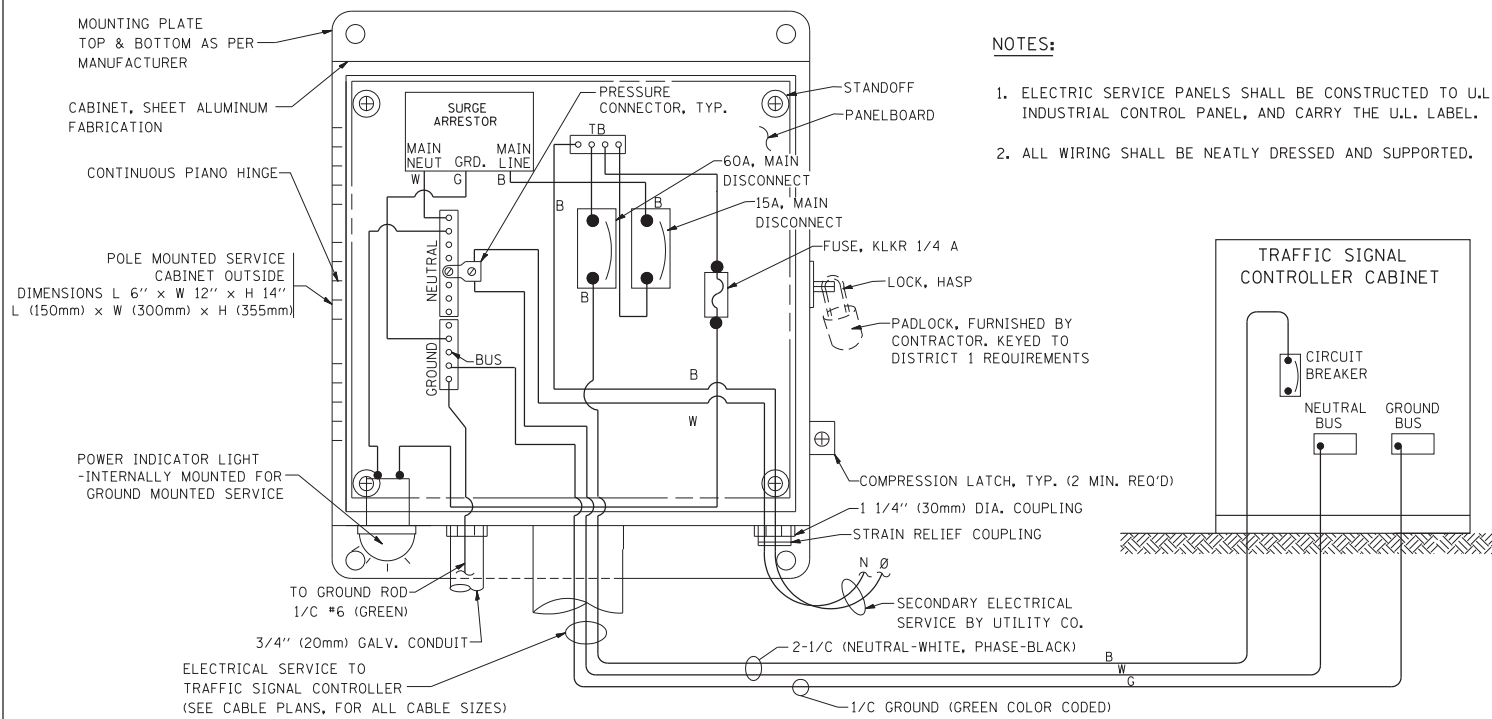
FILE NAME =	USER NAME = bauerdl	DESIGNED - DAD	REVISED -
ce:\pwwork\p\WIDOT\BAUERDL\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

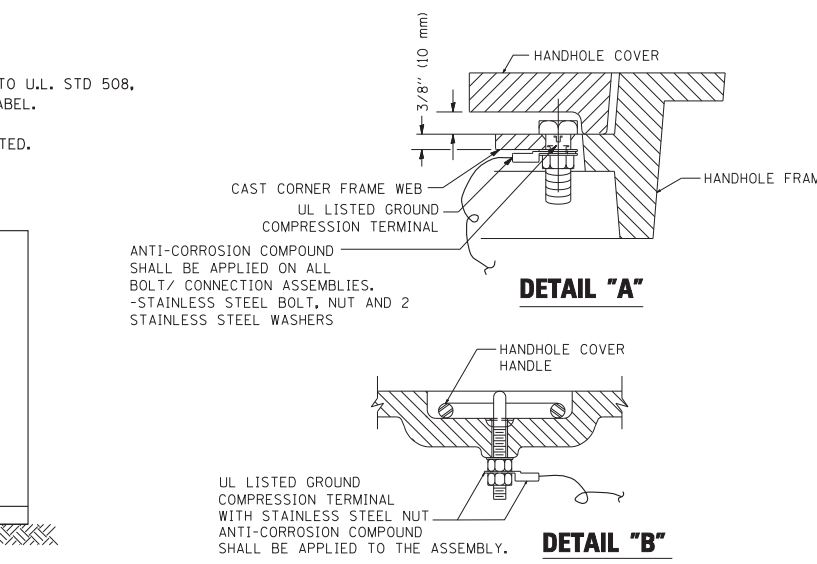
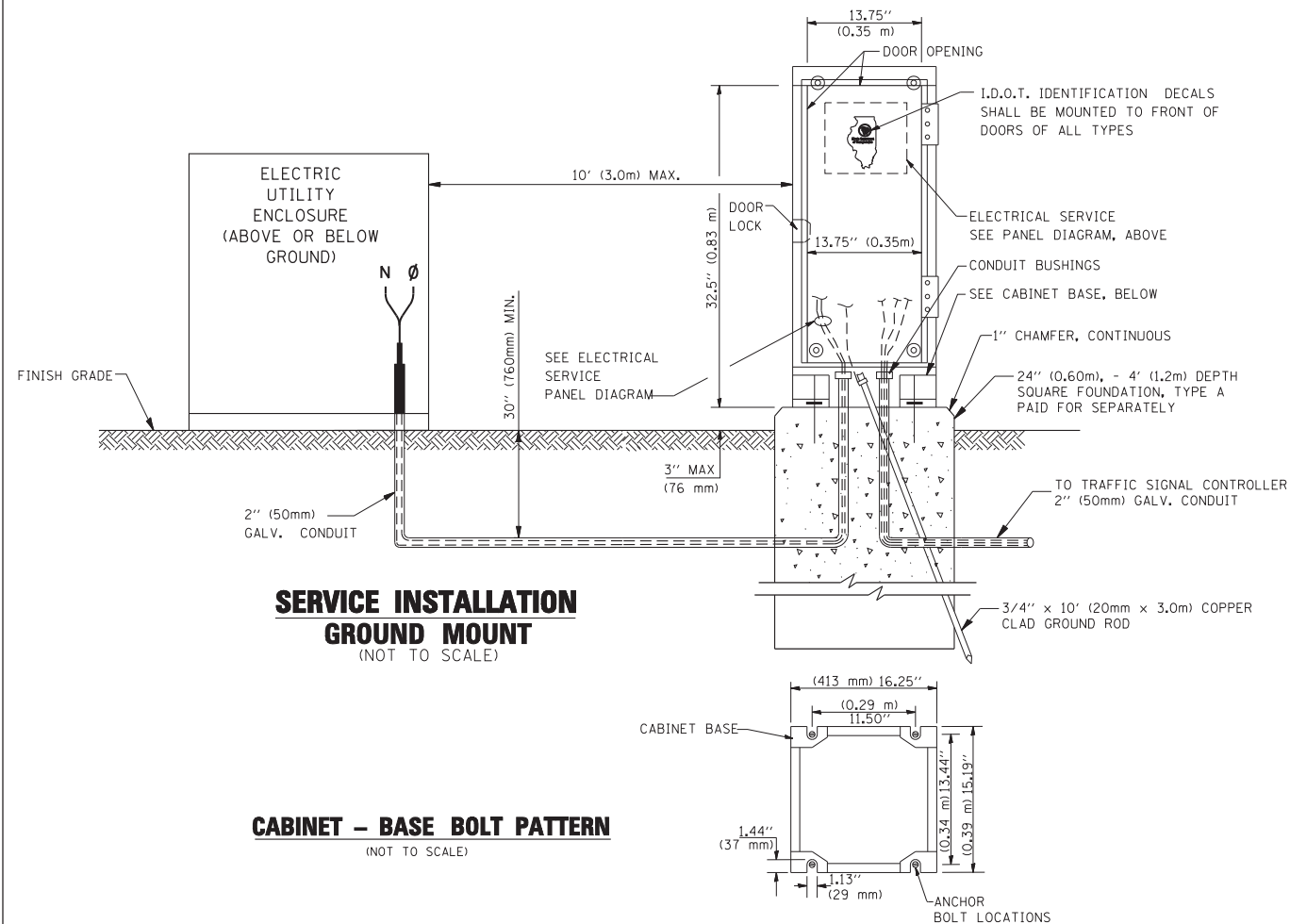
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	372
TS-05		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



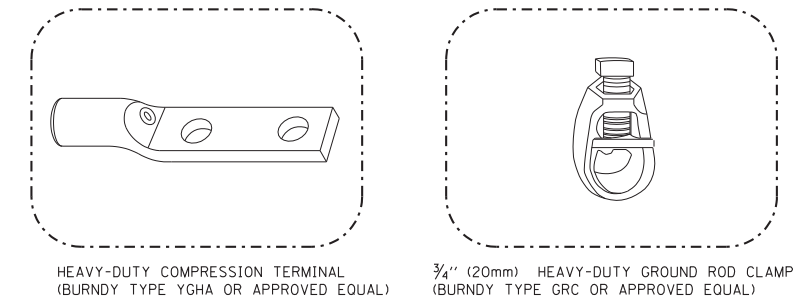
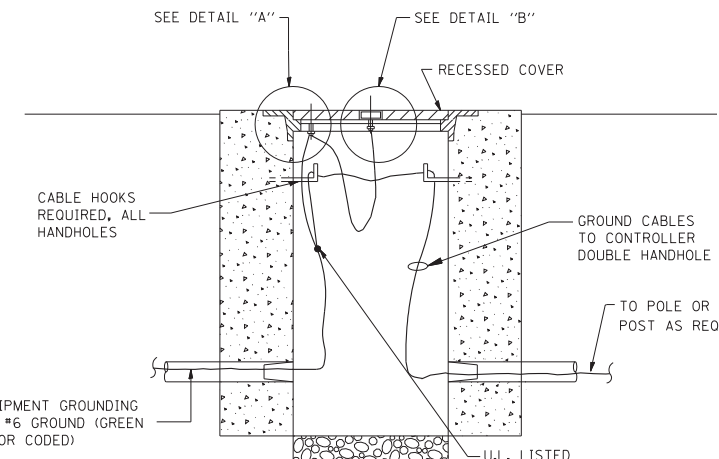
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



NOTES:

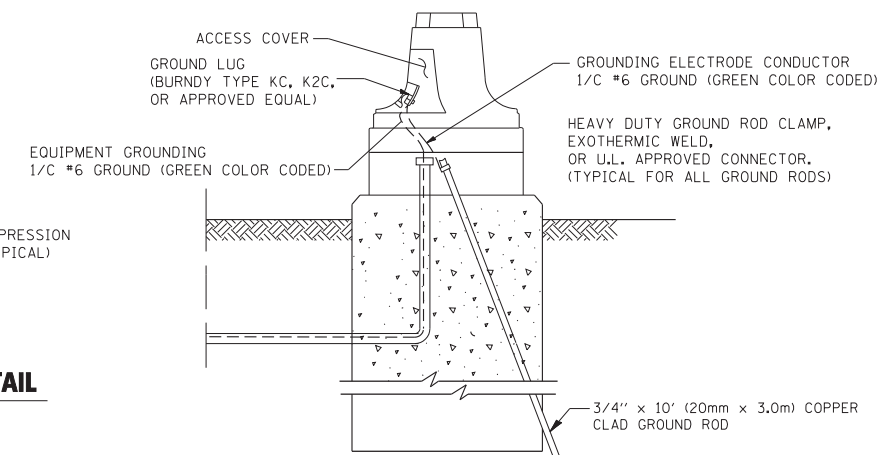
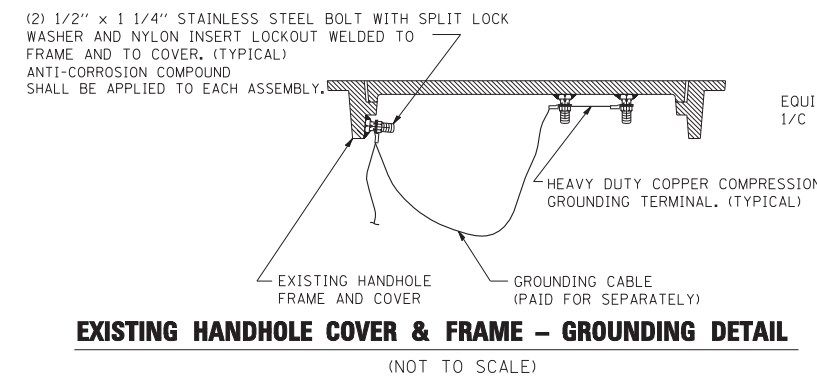
GROUNDING SYSTEM

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



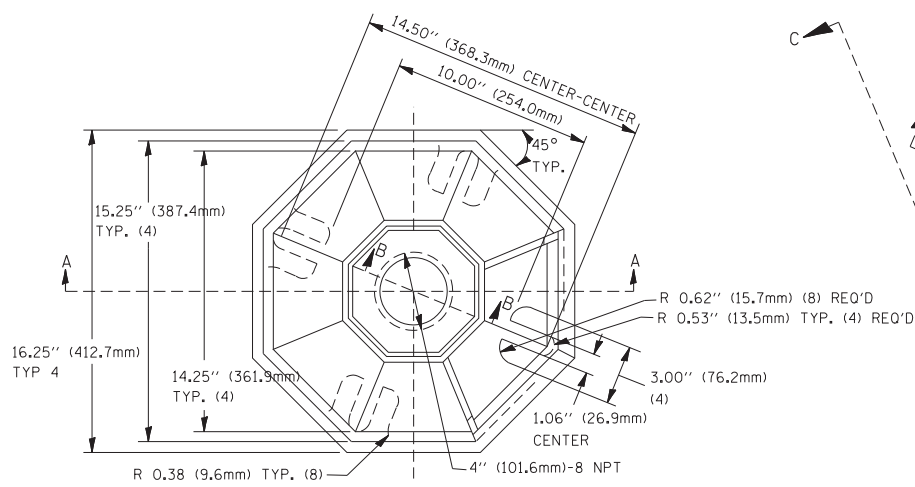
FILE NAME =	USER NAME = bauerdl	DESIGNED - DAD	REVISED -
ce:\pw\work\PWIDOT\BAUERDL\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

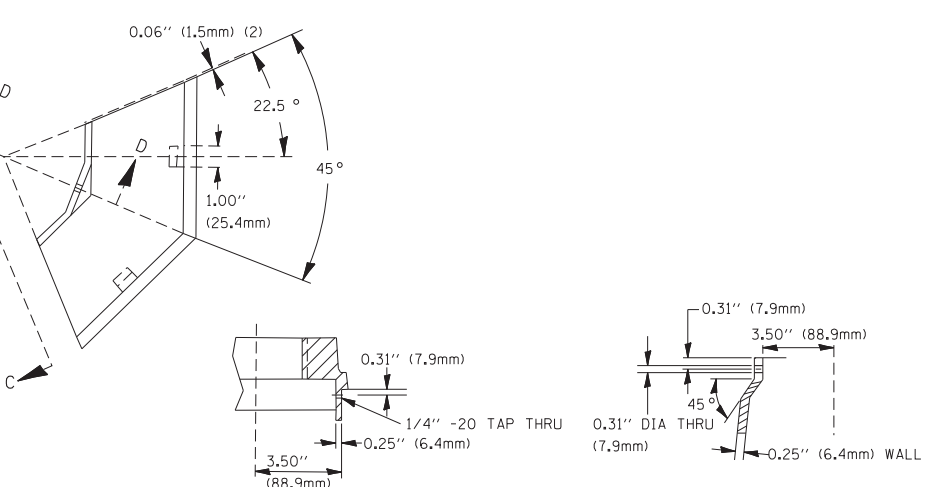
**DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	373
TS-05		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

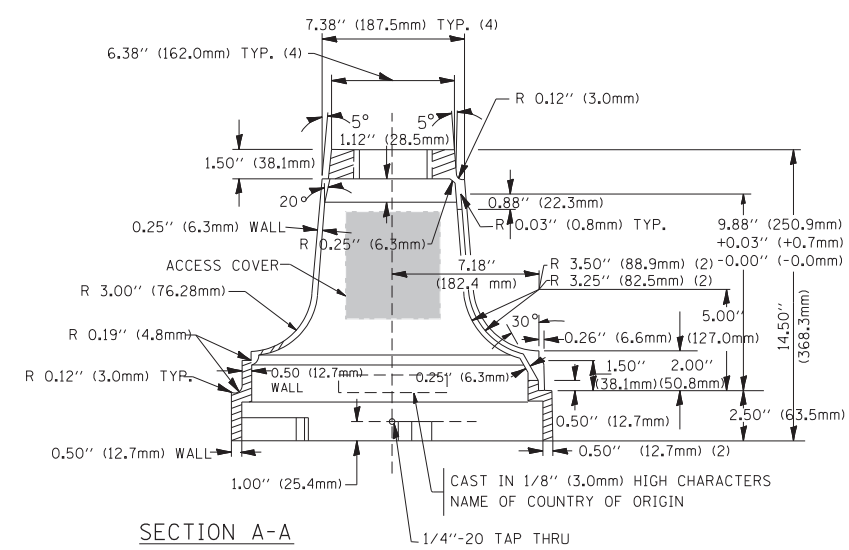


TOP VIEW

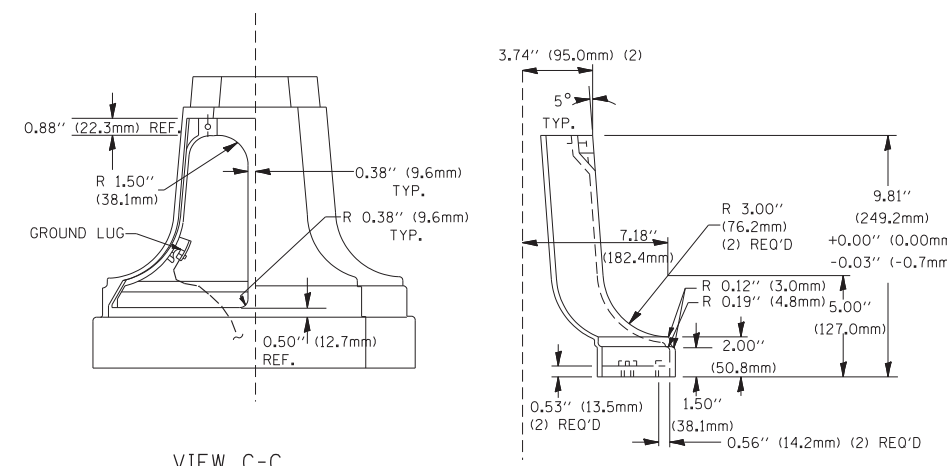


SECTION B-B

SECTION D-D

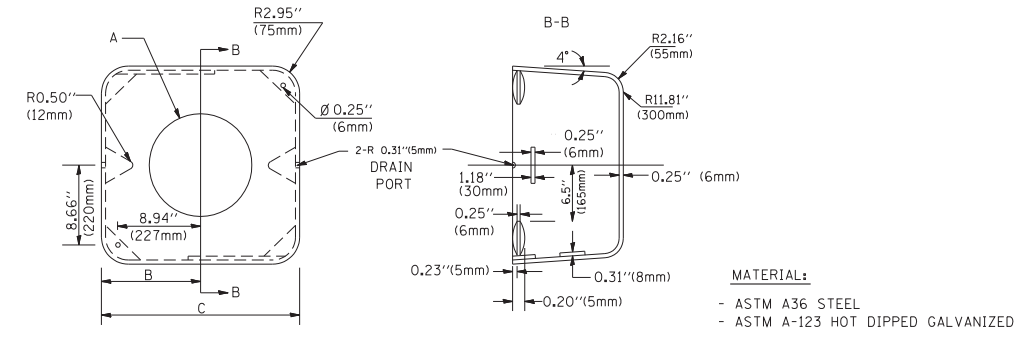


SECTION A-A



VIEW C-C

TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



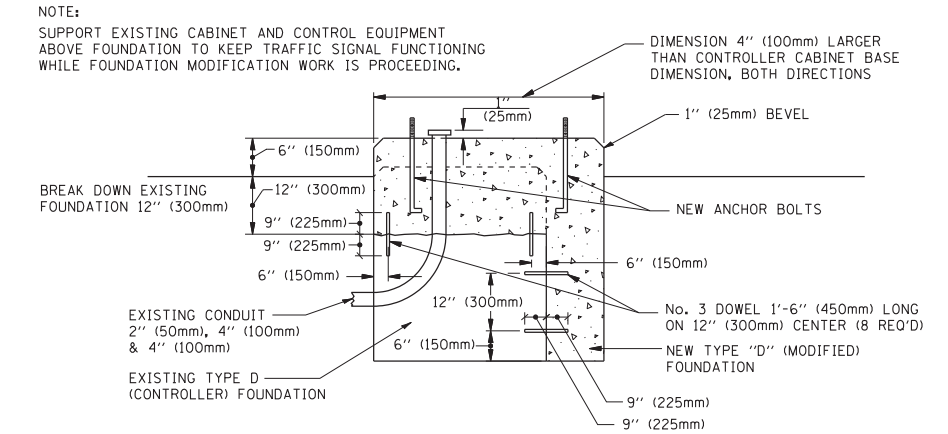
MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

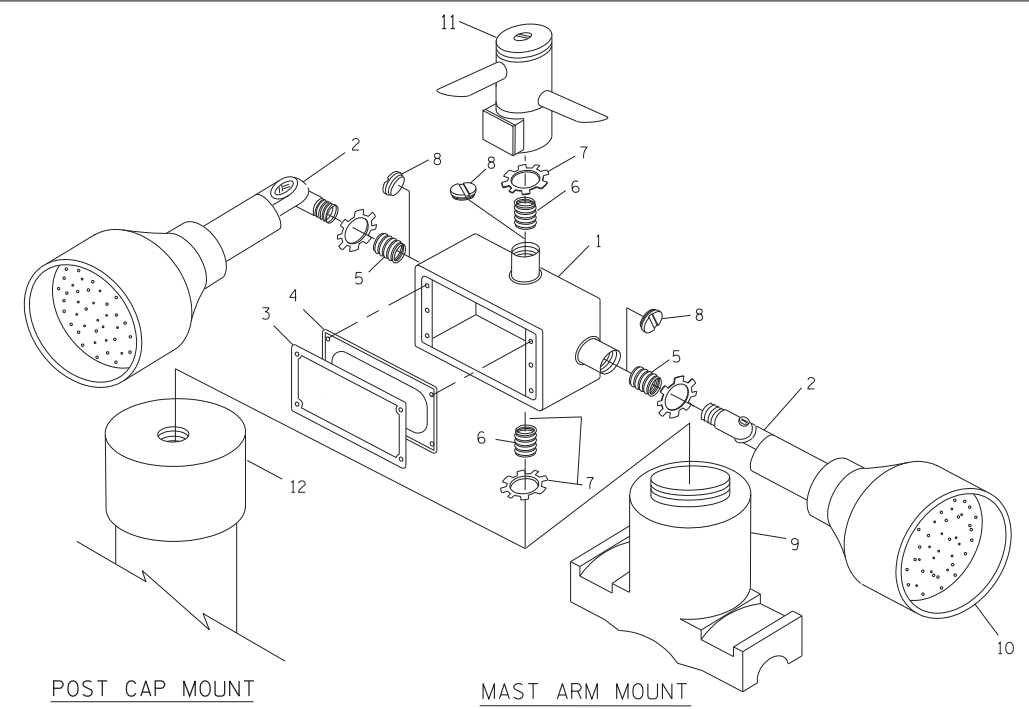
SHROUD

NOTES:

- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



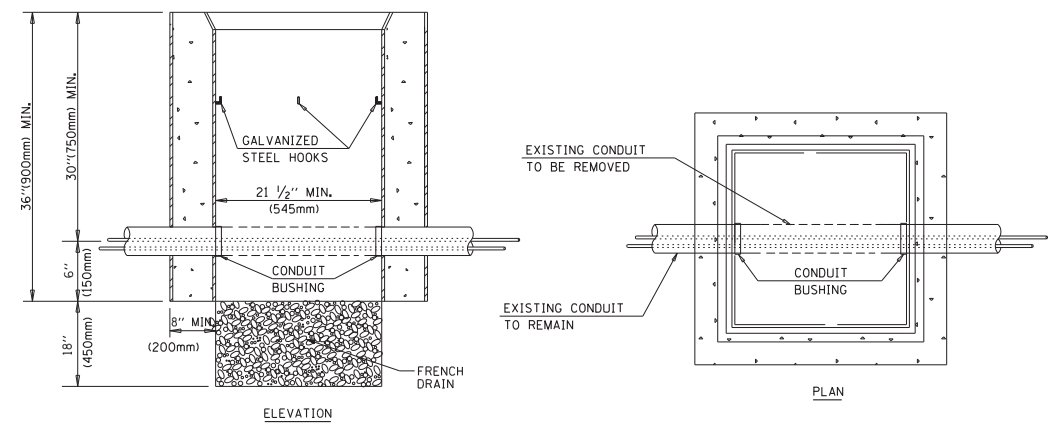
MODIFY EXISTING TYPE "D" FOUNDATION



ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV., 21 CU. IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-0-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



NOTES:

- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

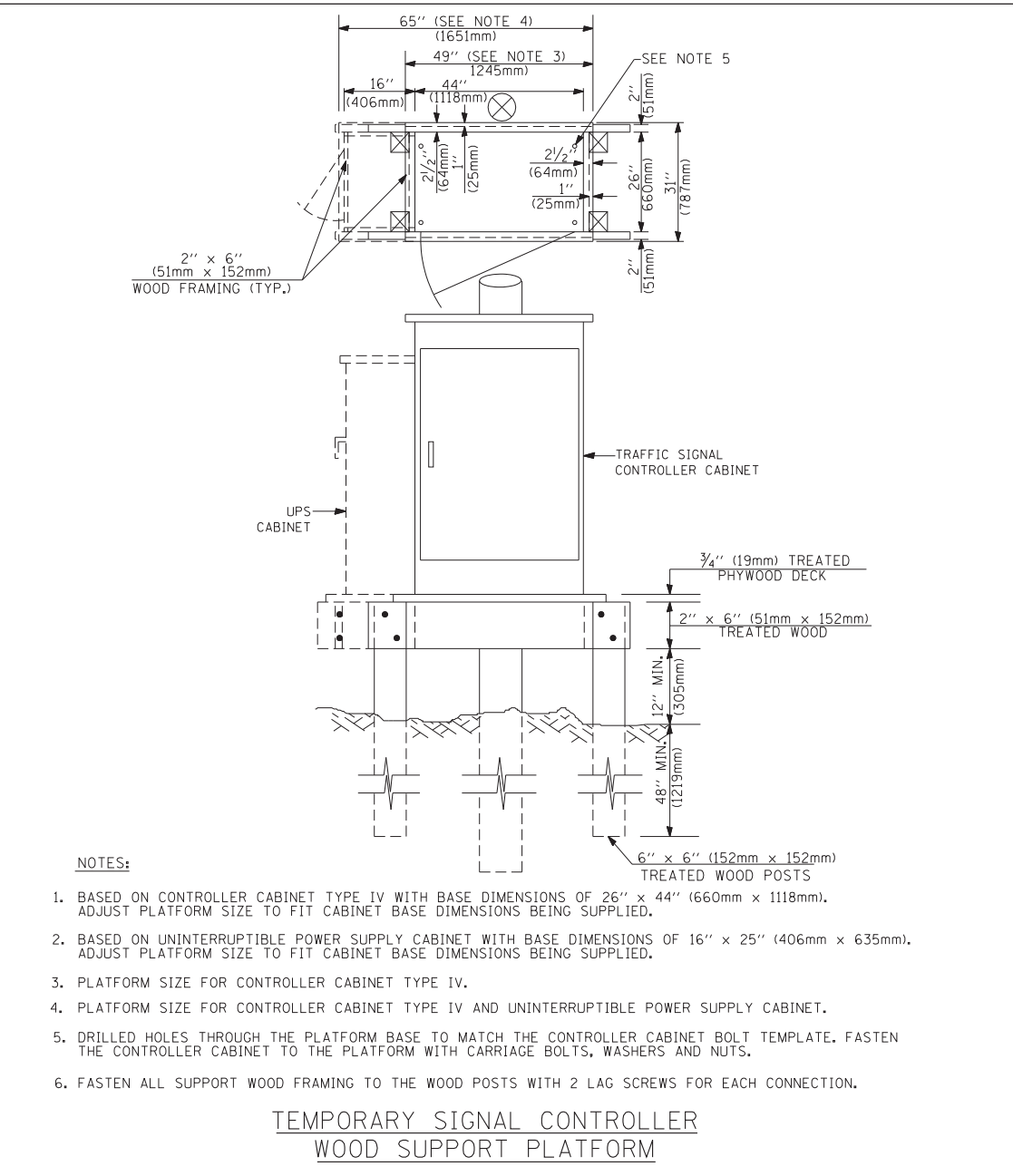
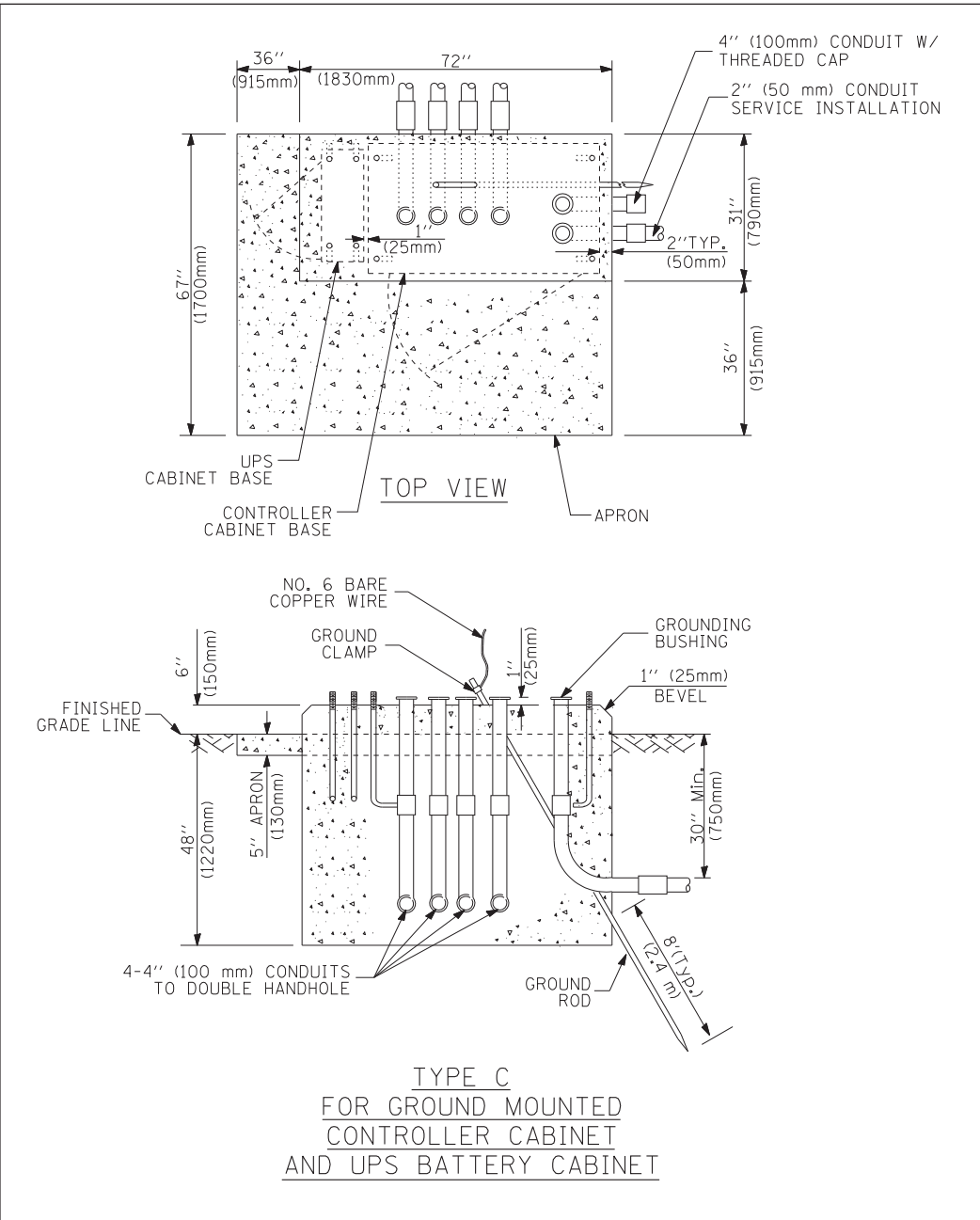
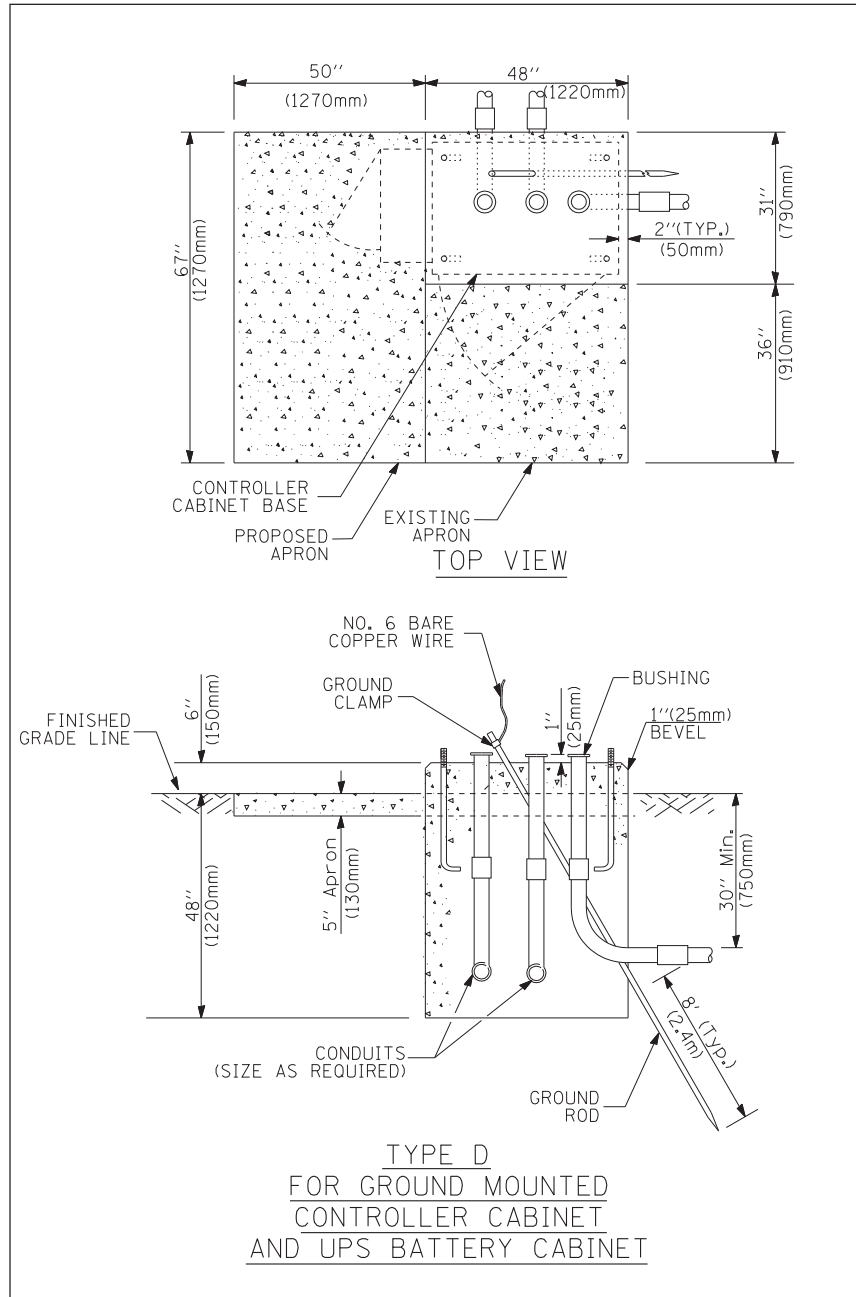
FILE NAME =	USER NAME = bauerdl	DESIGNED - DAD	REVISED -
ca:\pwwork\pwwid01\BAUERDL\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	374
	TS-05	CONTRACT NO.		60132
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES:**
- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
 - DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
 - FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 85' (25.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
 - Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
 - Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
 - For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = bauerdl	DESIGNED - DAG	REVISED -
ct:\pwork\PWIDOT\BAUERDL\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: NONE	SHEET NO. 5 OF 6 SHEETS	STA.	TO STA.
-------------	-------------------------	------	---------

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	375
TS-05		CONTRACT NO.	60132	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED												
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE															
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE															
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA															
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED															
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F															
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F															
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F 24F															
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F 24F															
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)															
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE															
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED															
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED															
SIGNAL POST				REMOVE ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED															
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED															
GUY WIRE				ABANDON ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED															
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				INTERSECTION & SAMPLING (SYSTEM) DETECTOR															
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				SAMPLING (SYSTEM) DETECTOR															
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR															
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR															
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR															
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR															
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				<h2 style="margin: 0;">RAILROAD SYMBOLS</h2> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">EXISTING</th> <th style="width: 50%;">PROPOSED</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>				EXISTING	PROPOSED										
EXISTING	PROPOSED																						
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER																			
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT																			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER																			
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED																			
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)																			
MICROWAVE VEHICLE SENSOR																							
VIDEO DETECTION CAMERA																							
VIDEO DETECTION ZONE																							
PAN, TILT, ZOOM CAMERA																							
WIRELESS DETECTOR SENSOR																							
WIRELESS ACCESS POINT																							

FILE NAME =	USER NAME = bauerdl	DESIGNED - DAG/BCK	REVISED -
ct:\pwwork\pwwork\BAUERDL\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
PLOT SCALE = 50.0000' / IN.		CHECKED - DAD	REVISED -
PLOT DATE = 11/4/2009		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

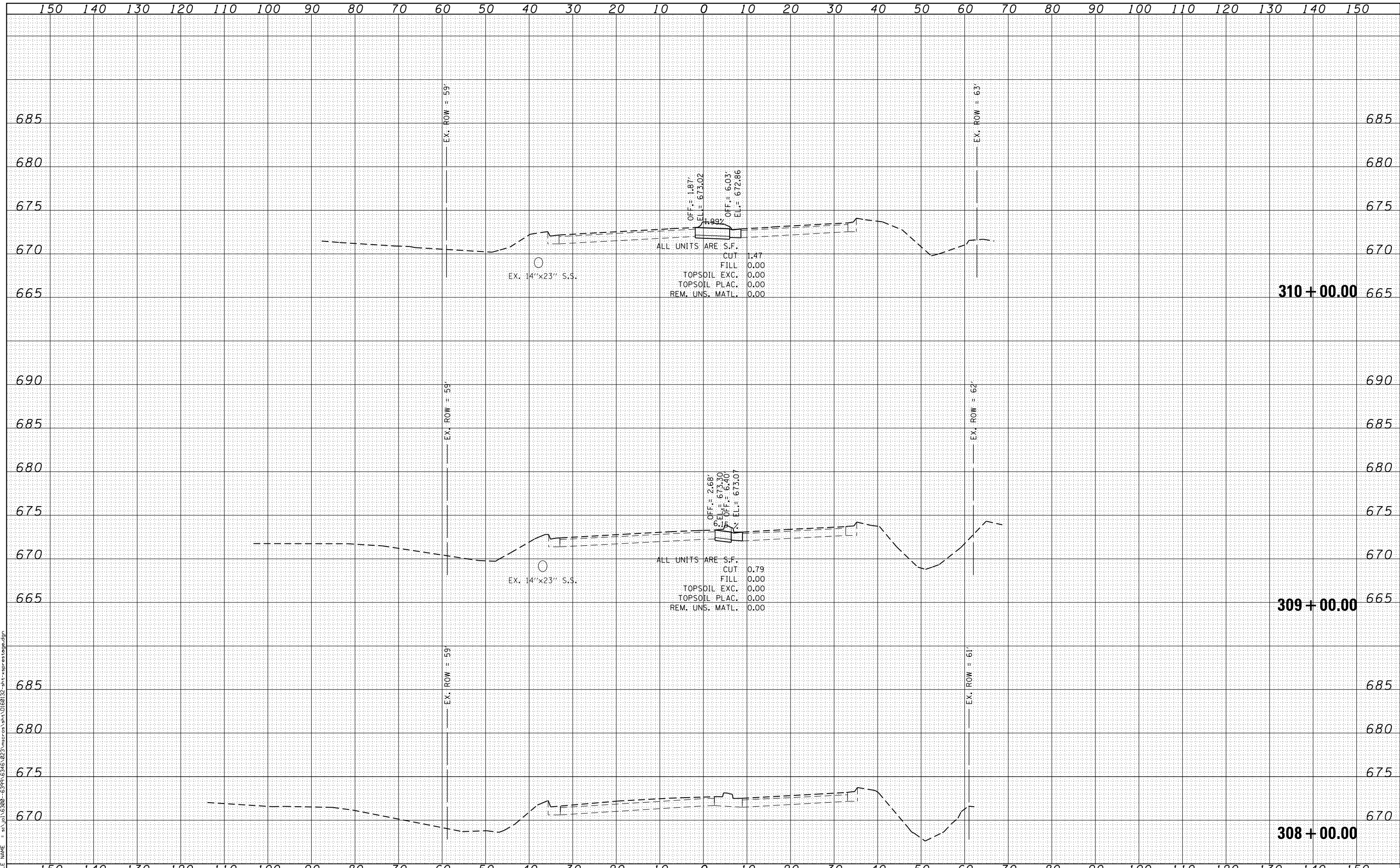
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	376
TS-05		CONTRACT NO. 60132		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET NO. 6 OF 6 SHEETS STA. TO STA.

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

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

FILE NAME = s:\p1\6300-6399\6346\223\micross\st\0160132-art-asprenstage.dgn



SA
1170 SOUTH HOBOLT ROAD
JOLIET, ILLINOIS 60431
STRAND
ASSOCIATES®
(815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISD -
	DRAWN - AJJ	REVISD -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISD -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US 30 PRE-STAGE CROSS SECTIONS

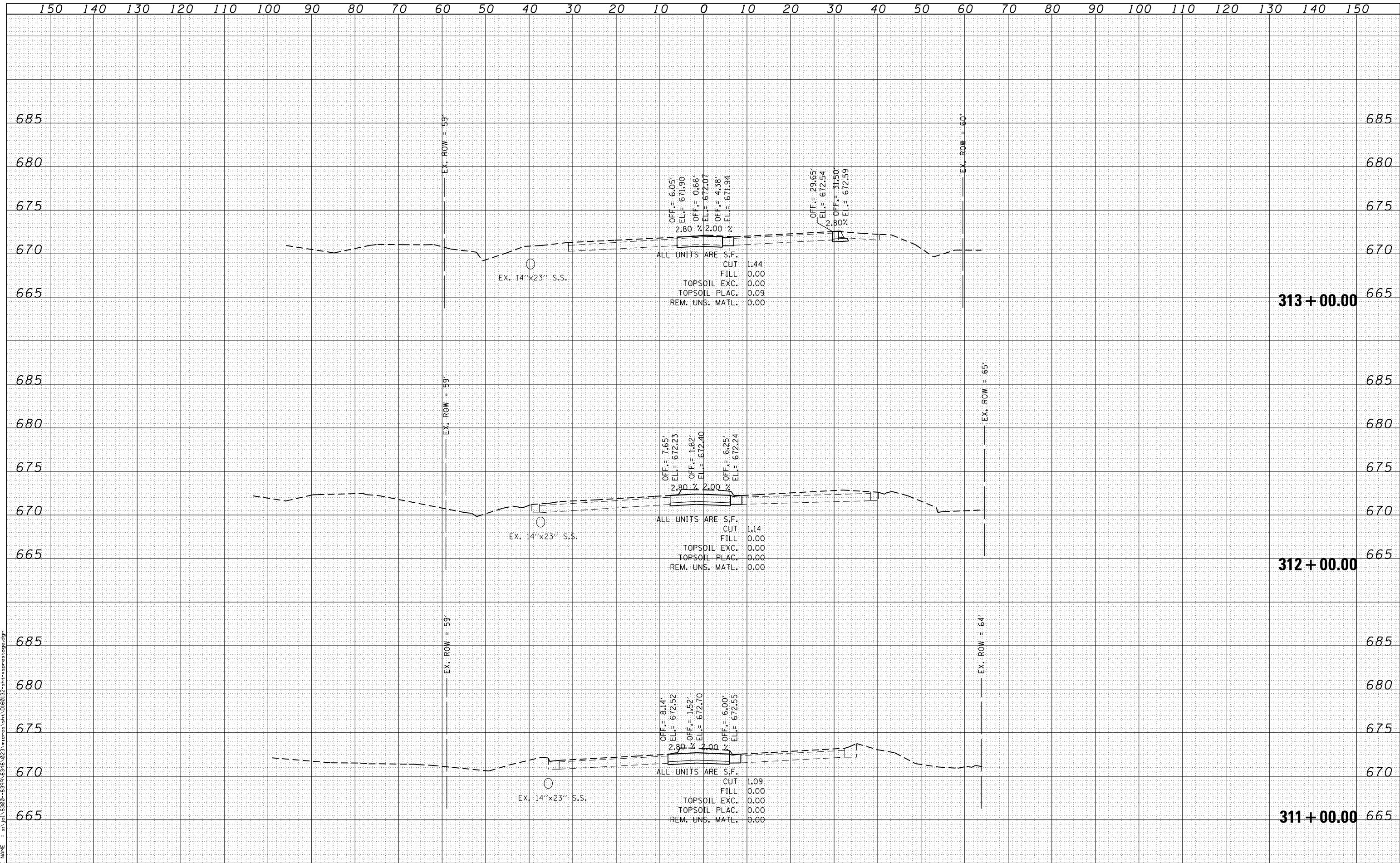
SCALE: SHEET OF SHEETS STA. 308+00.00 TO STA. 310+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	377
CONTRACT NO. 60132				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = s:\p1\15300-6399-6346\23\micross\st1\0160132-art-sspre-stage.dgn



SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = amandaj	DESIGNED - MAG	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - AJJ	REVISED -
PLOT DATE = 5/14/2012	CHECKED - BMA	REVISED -
	DATE 4/25/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

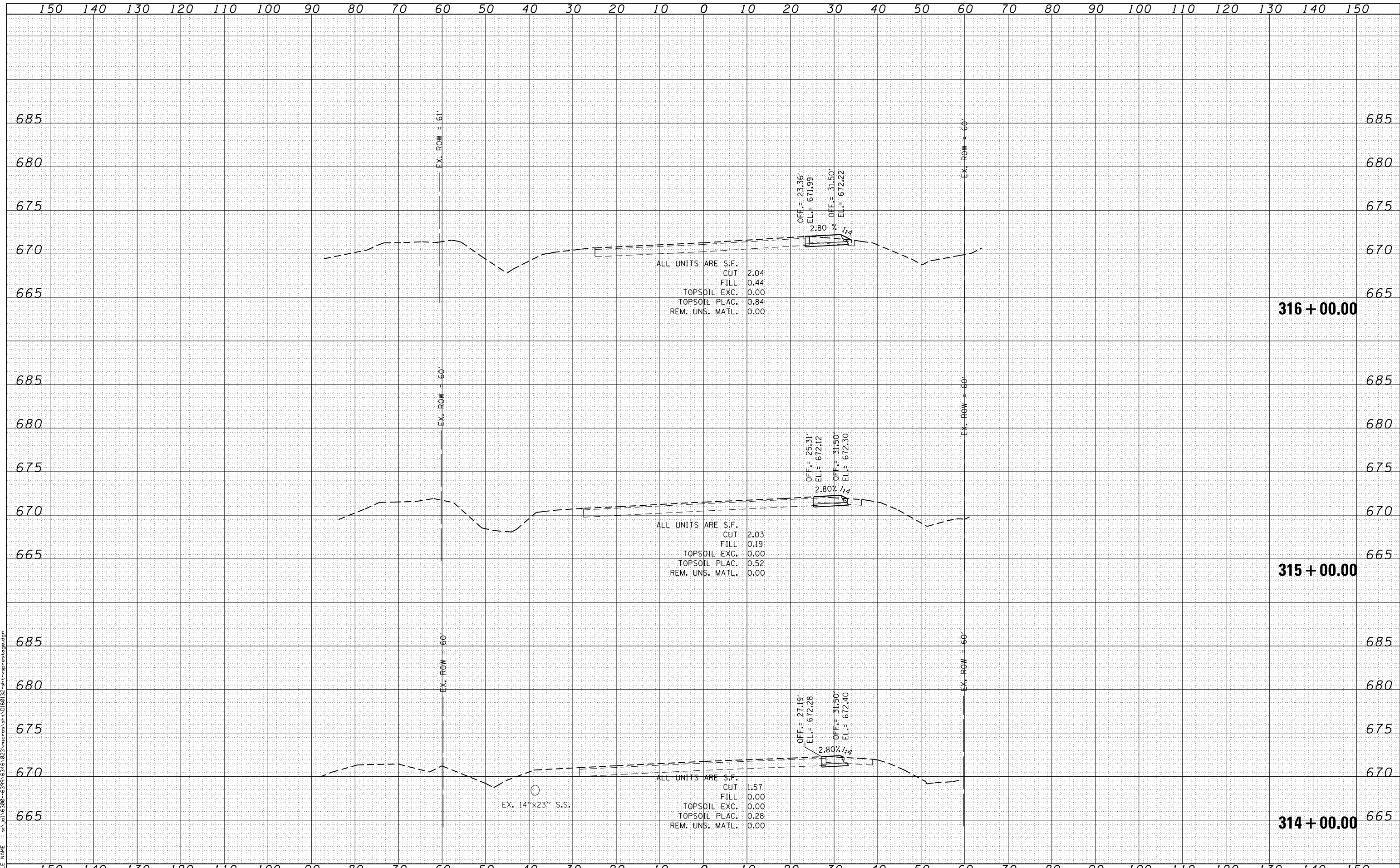
US 30 PRE-STAGE CROSS SECTIONS	
SCALE:	SHEET OF SHEETS STA. 311+00.00 TO STA. 313+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	378
CONTRACT NO. 60132				

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

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

FILE NAME = s:\p1\15200-6394\6346\023\micross\st1\0180132-ant-esprenstage.dgn



STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISED -
	DRAWN - AJJ	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US 30 PRE-STAGE CROSS SECTIONS

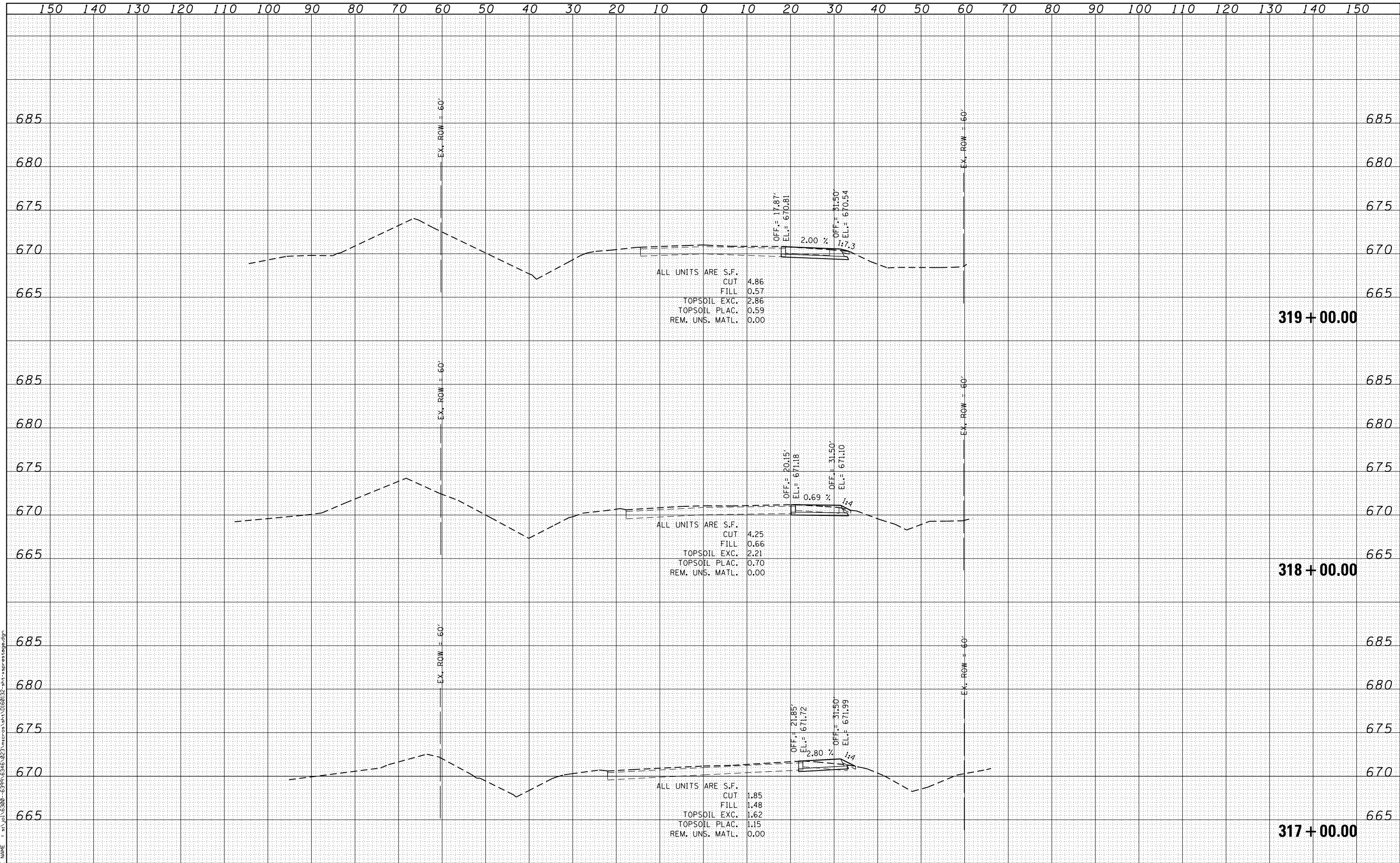
SCALE: SHEET OF SHEETS STA. 314+00.00 TO STA. 316+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	379
CONTRACT NO. 60132				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
NO.	

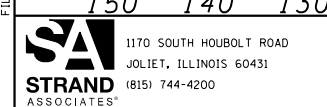
FILE NAME = s:\p1\15200-6394\6346\223\micross\st1\0180132-ant-ssprts1.dgn



ALL UNITS ARE S.F.
 CUT 4.86
 FILL 0.57
 TOPSOIL EXC. 2.86
 TOPSOIL PLAC. 0.59
 REM. UNS. MATL. 0.00

ALL UNITS ARE S.F.
 CUT 4.25
 FILL 0.66
 TOPSOIL EXC. 2.21
 TOPSOIL PLAC. 0.70
 REM. UNS. MATL. 0.00

ALL UNITS ARE S.F.
 CUT 1.85
 FILL 1.48
 TOPSOIL EXC. 1.62
 TOPSOIL PLAC. 1.15
 REM. UNS. MATL. 0.00



USER NAME = amanda.j	DESIGNED - MAG	REVISED -
	DRAWN - AJJ	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

US 30 PRE-STAGE CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 317+00.00 TO STA. 319+00.00

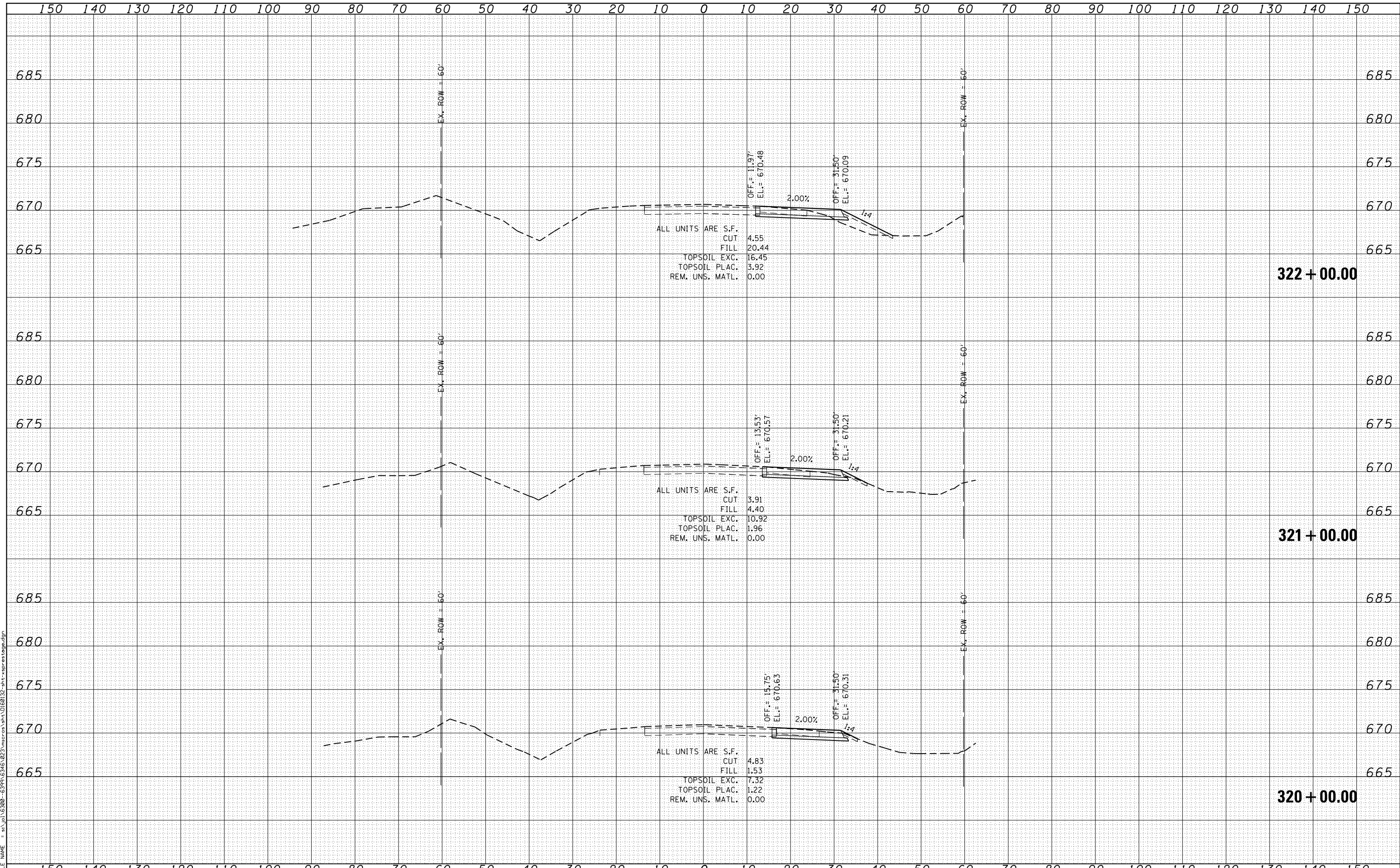
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	380
CONTRACT NO. 60132				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

FILE NAME = s:\p1\16300-6399-6346\23\micross\st1\0180132-art-aspresstage.dgn



STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISED -
	DRAWN - AJJ	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

US 30 PRE-STAGE CROSS SECTIONS

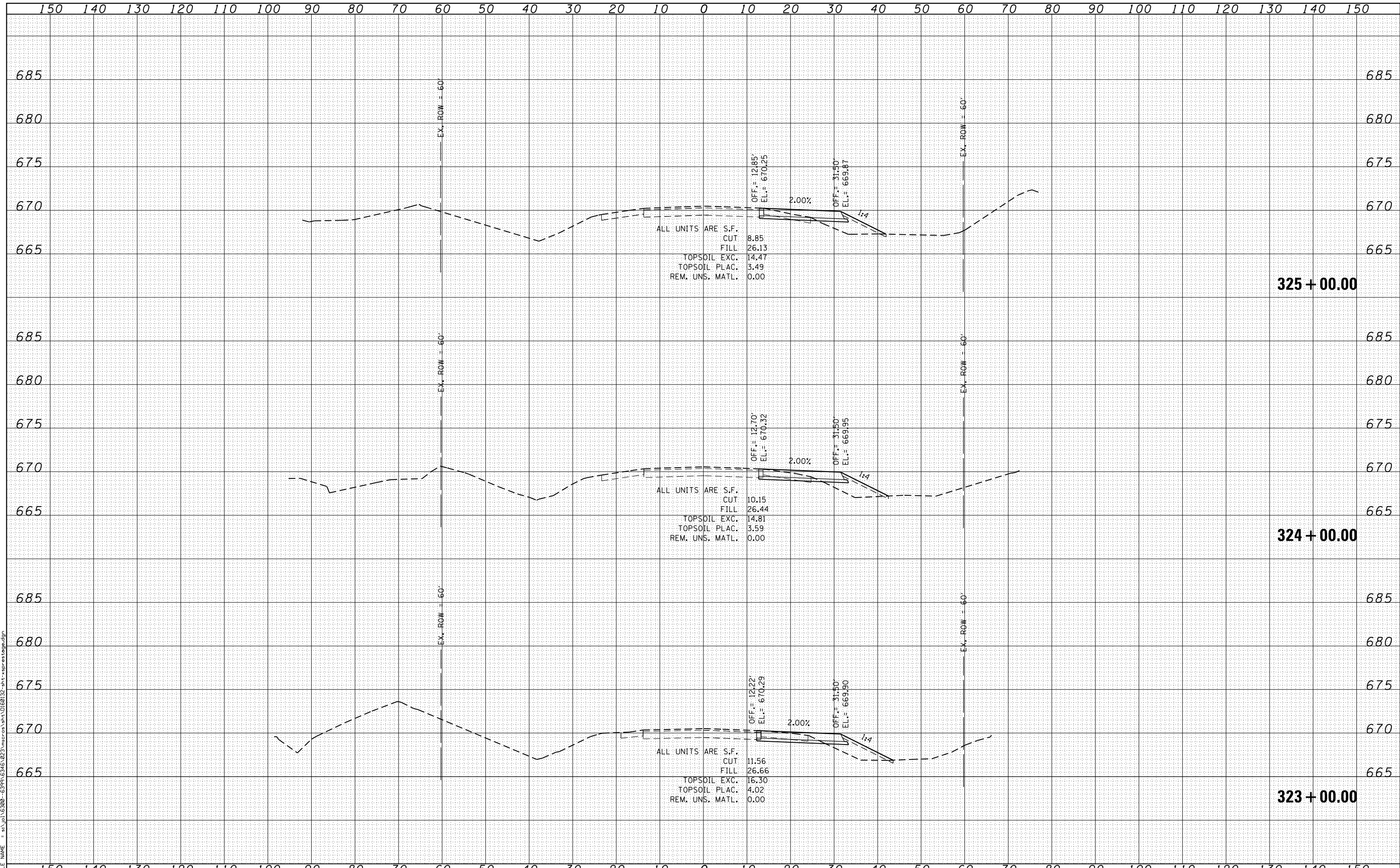
SCALE: SHEET OF SHEETS STA. 320+00.00 TO STA. 322+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	381
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60132	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

FILE NAME = s:\p1\6300-6399-6346\223\micross\st1\0180132-art-aspresstage.dgn



STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISED -
	DRAWN - AJJ	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

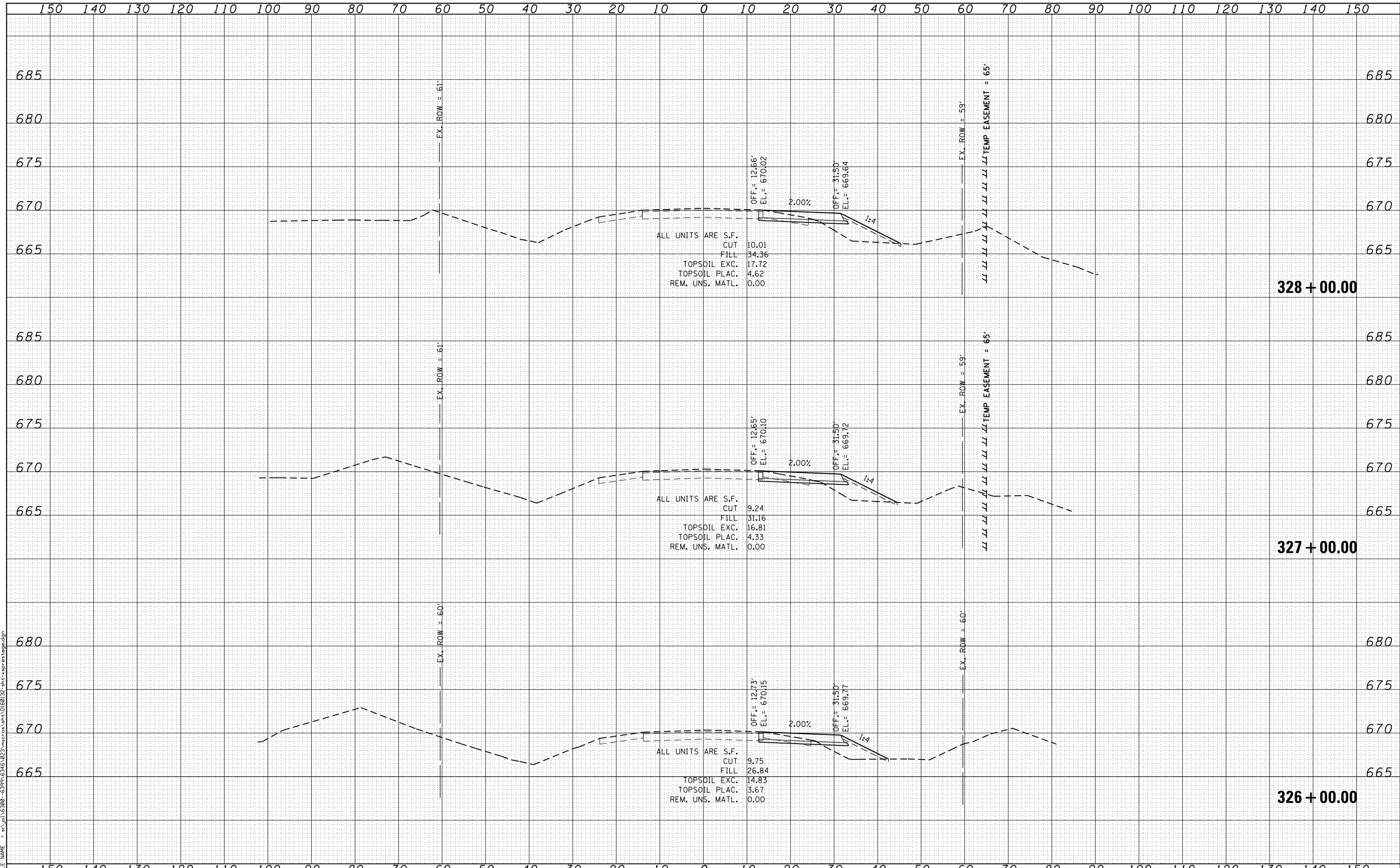
US 30 PRE-STAGE CROSS SECTIONS
 SCALE: SHEET OF SHEETS STA. 323+00.00 TO STA. 325+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	382
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60132	

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

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

FILE NAME = s:\p1\16300-6394\6346\223\micross\st1\0160132-art-esprenstage.dgn



STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = amandaj	DESIGNED - MAG	REVISED -
	DRAWN - AJJ	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US 30 PRE-STAGE CROSS SECTIONS

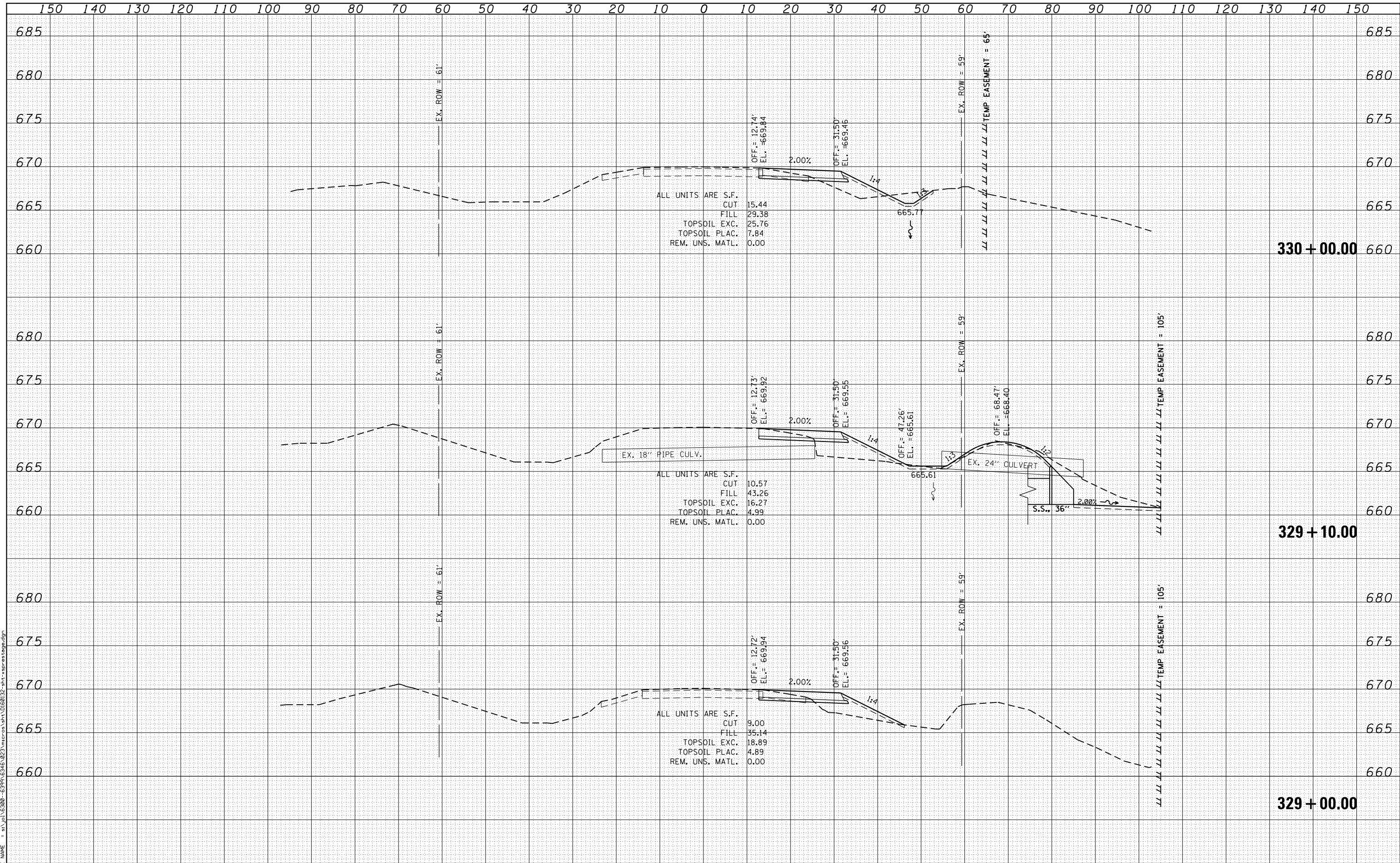
SCALE: SHEET OF SHEETS STA. 326+00.00 TO STA. 328+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	383
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60132	

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

FILE NAME = s:\p1\6300-6399\6346\223\micross\st1\0180132-plt-sspre-stage.dgn



SA 1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
STRAND (815) 744-4200
ASSOCIATES*

USER NAME = amandaj	DESIGNED - MAG	REVISED -
	DRAWN - AJJ	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 30 PRE-STAGE CROSS SECTIONS

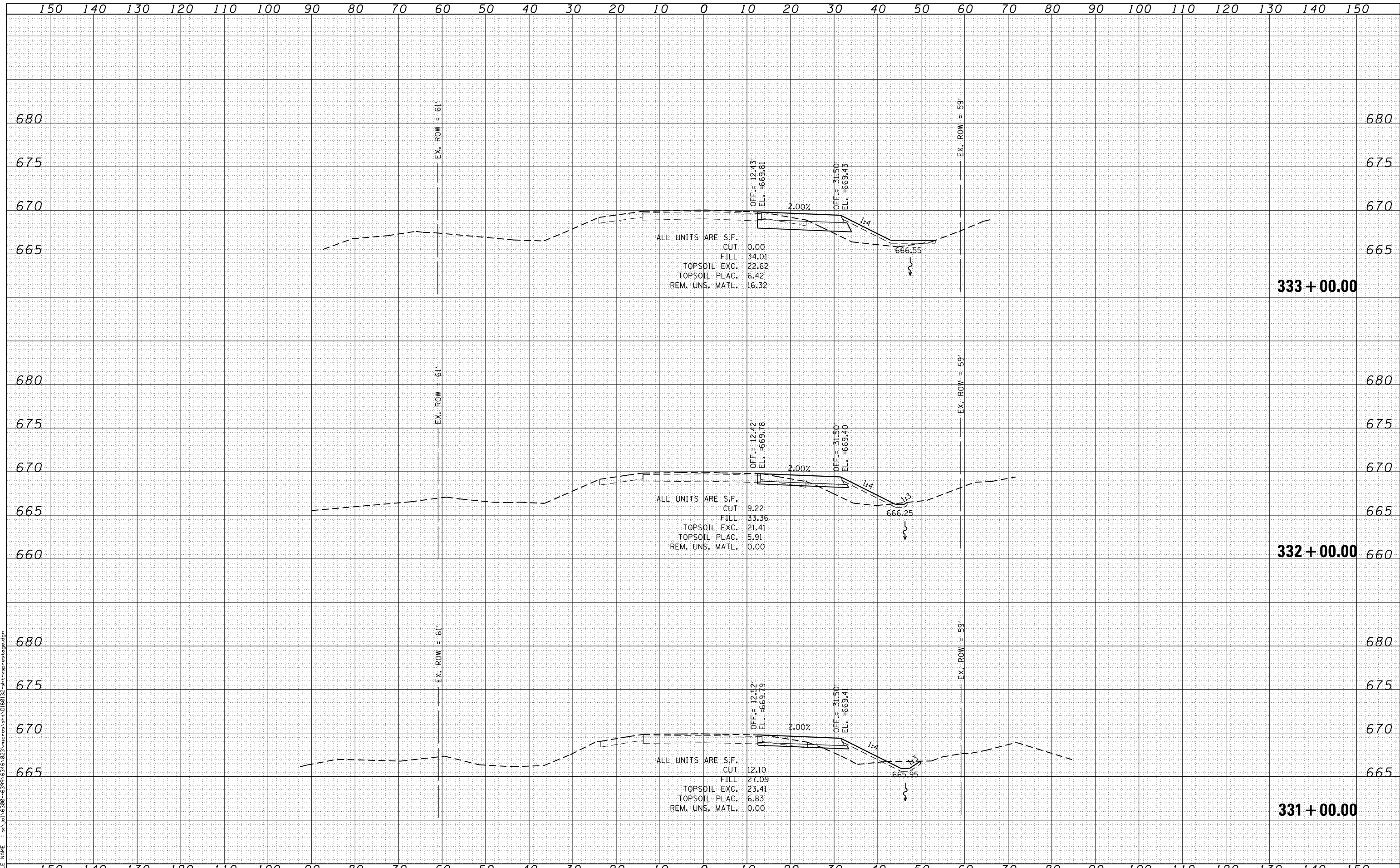
SCALE: SHEET OF SHEETS STA. 329+00.00 TO STA. 330+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	384
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60132	

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

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

FILE NAME = s:\p1\6300-6399-6346\23\micross\st1\0180132-art-aspresstage.dgn



SA 1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
STRAND ASSOCIATES (815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISED -
	DRAWN - AJJ	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US 30 PRE-STAGE CROSS SECTIONS

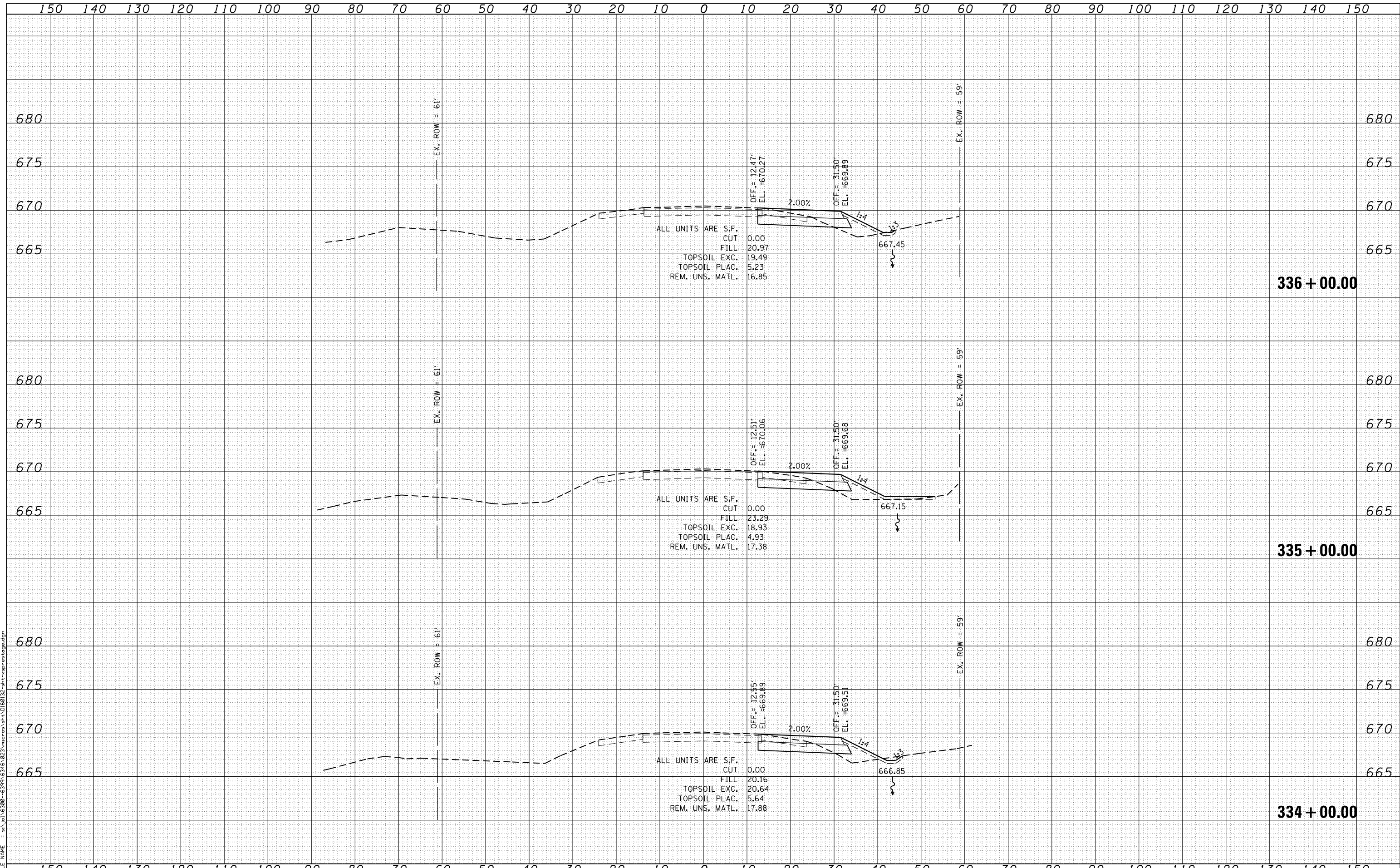
SCALE: SHEET OF SHEETS STA. 331+00.00 TO STA. 333+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	385
CONTRACT NO. 60132				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = s:\p1\6300-6399-6346\23\micross\st1\0180132-ant-ssprts1.dgn



STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISIED -
	DRAWN - AJJ	REVISIED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISIED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

US 30 PRE-STAGE CROSS SECTIONS

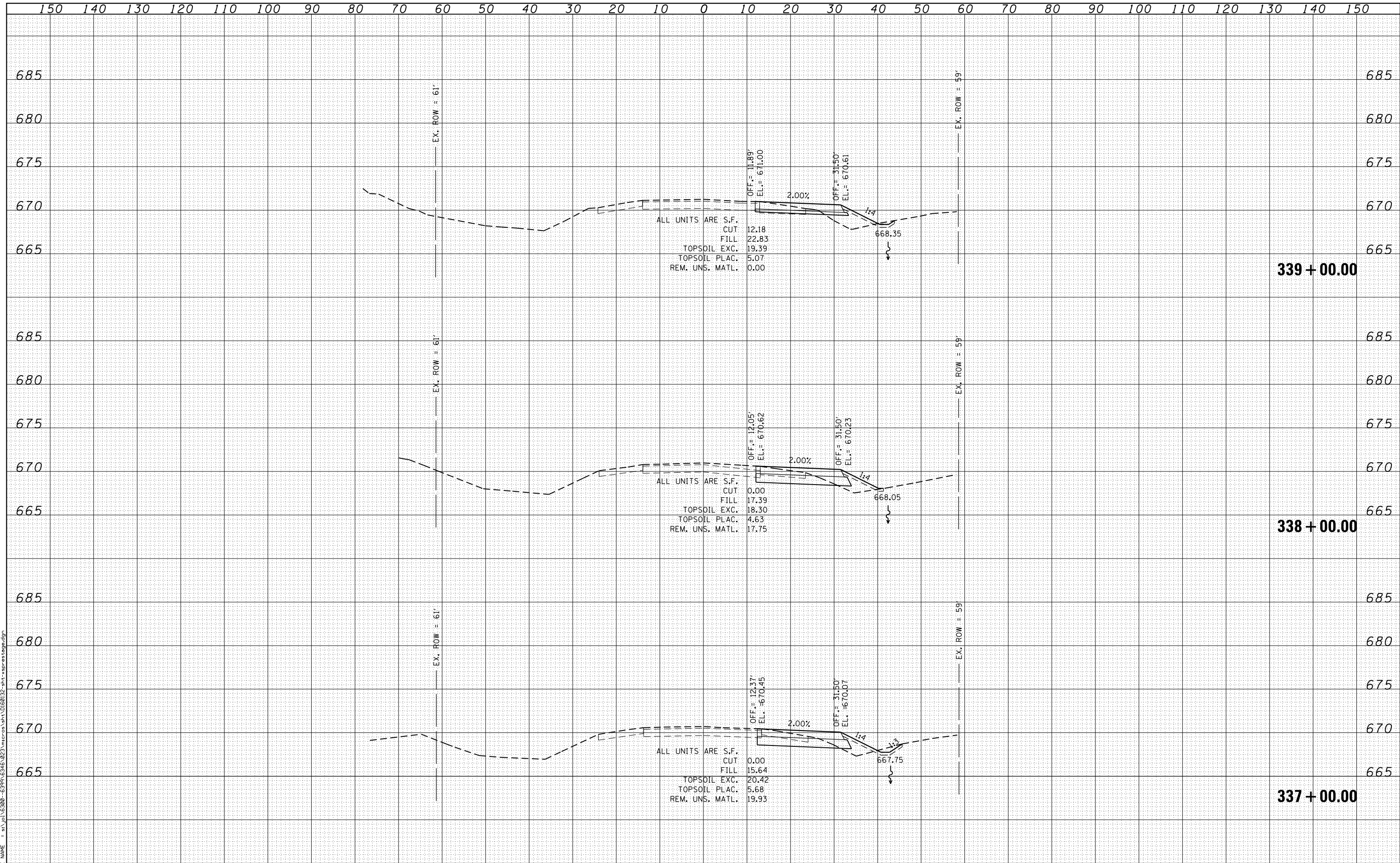
SCALE: SHEET OF SHEETS STA. 334+00.00 TO STA. 336+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	386
CONTRACT NO. 60132				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

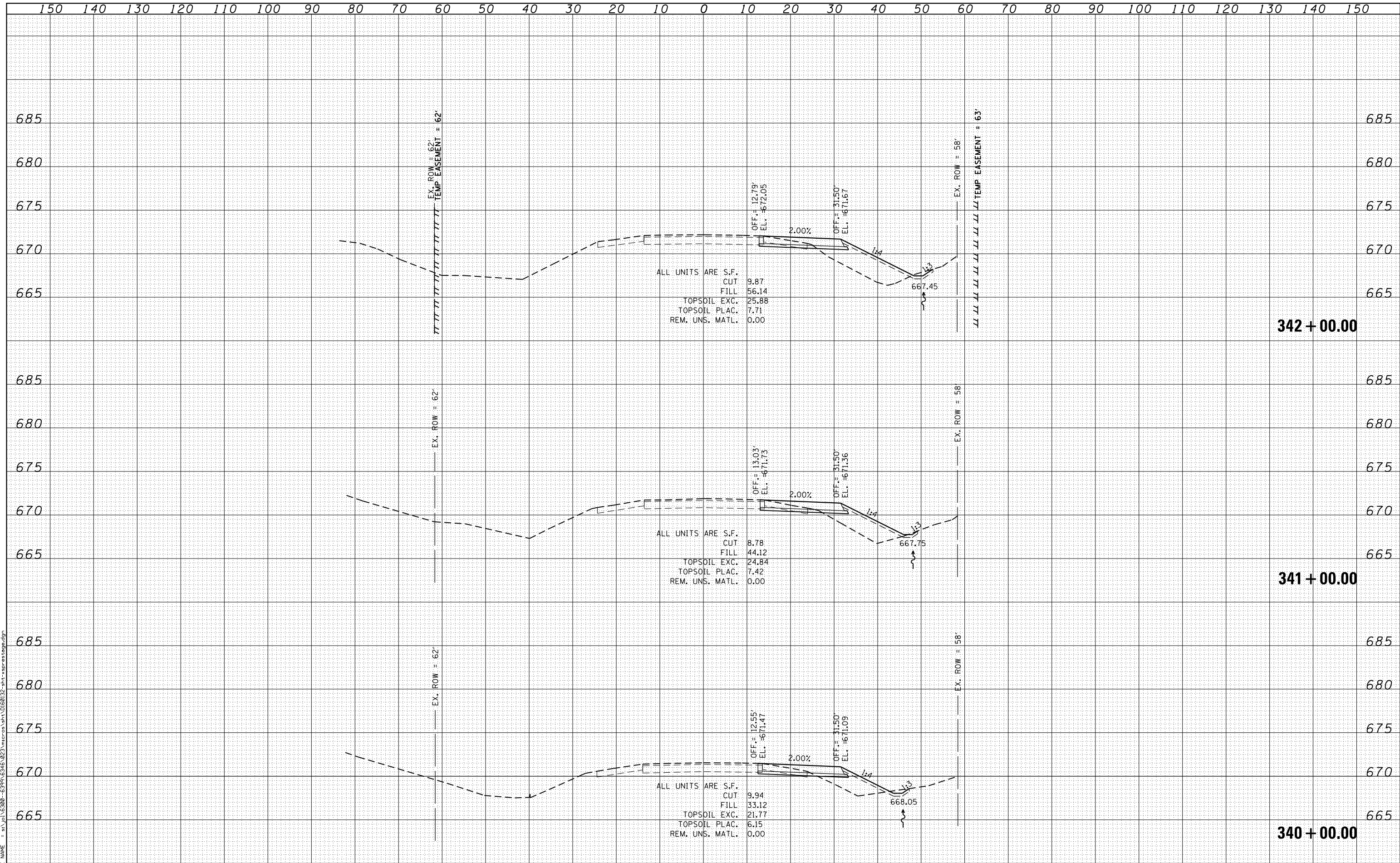
FILE NAME = s:\p1\6300-6399-6346\223\micross\st1\0180132-art-ssprst.tga.dgn



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

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

FILE NAME = s:\p1\15200-6399-6346\223\micross\stn\0180132-apt-esprenstage.dgn



SA
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
STRAND
 ASSOCIATES®
 (815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISIED -
	DRAWN - AJJ	REVISIED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISIED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISIED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 30 PRE-STAGE CROSS SECTIONS

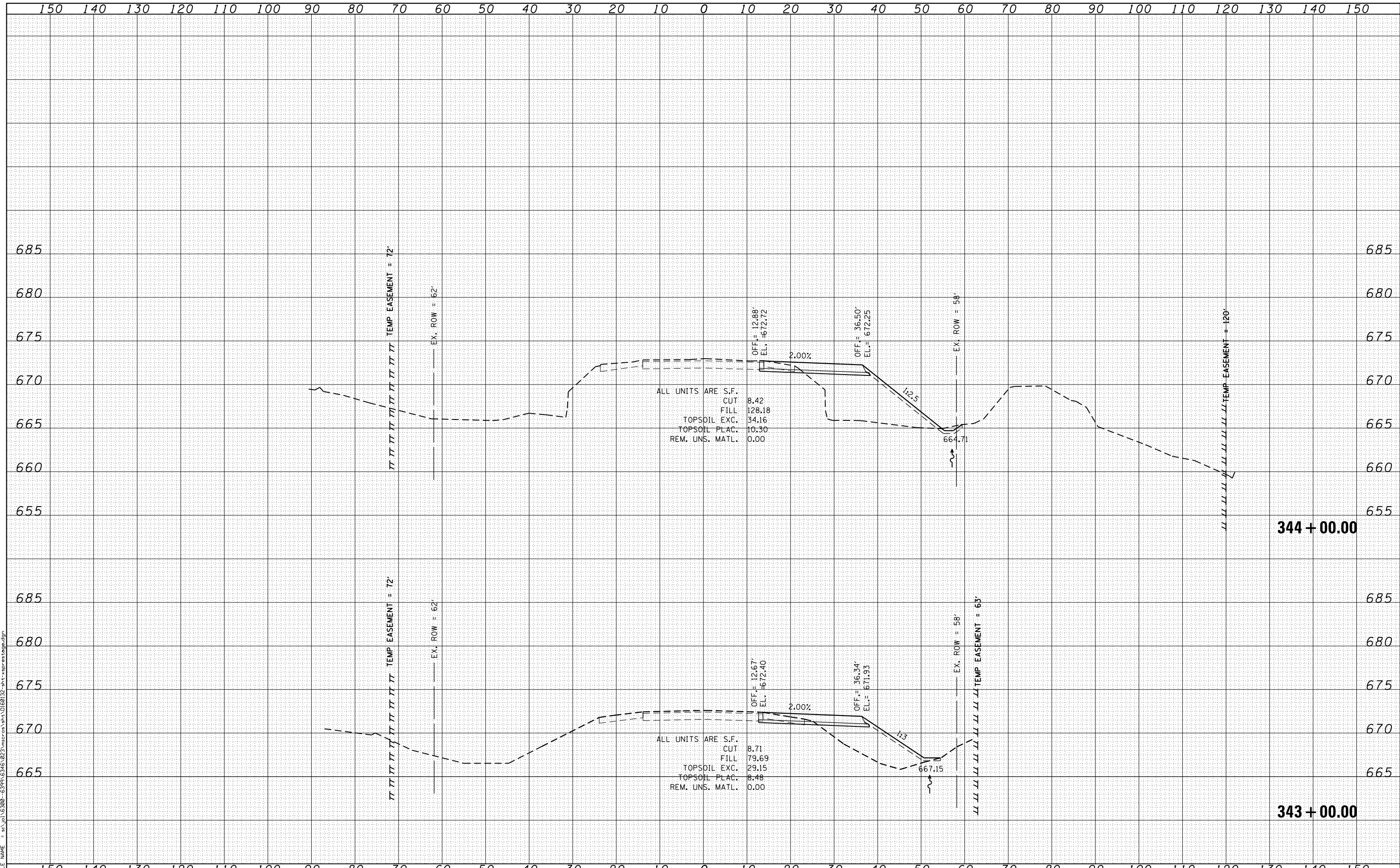
SCALE: SHEET OF SHEETS STA. 340+00.00 TO STA. 342+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	388
CONTRACT NO. 60132				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = s:\p1\16300-6394-6346\223\micross\stn\0160132-art-ssprestage.dgn



STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - AJJ	REVISED -
PLOT DATE = 5/14/2012	CHECKED - BMA	REVISED -
	DATE 4/25/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

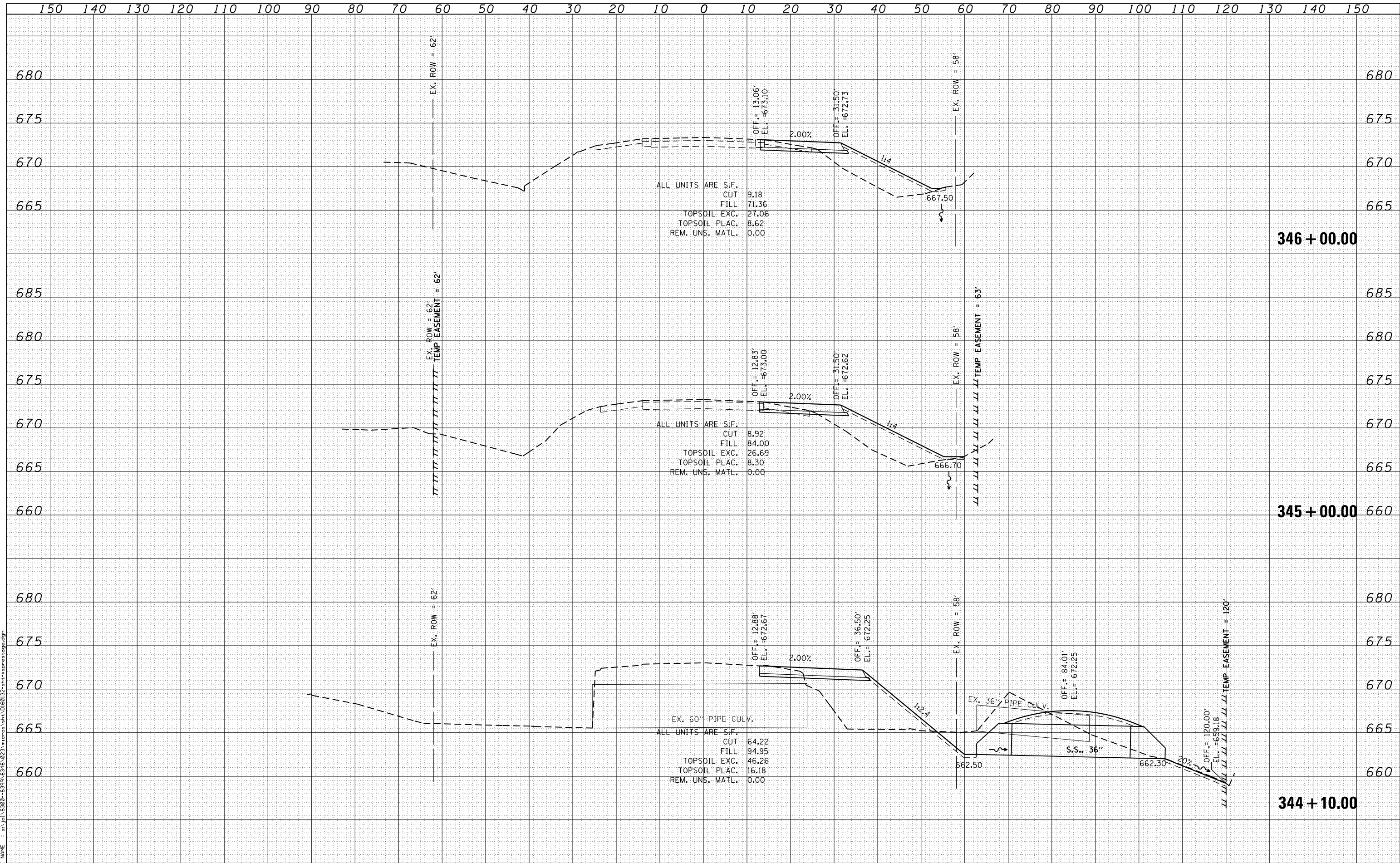
US 30 PRE-STAGE CROSS SECTIONS	
SCALE:	SHEET OF SHEETS STA. 343+00.00 TO STA. 344+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	389
CONTRACT NO. 60132				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

FILE NAME = s:\p\15300-6394-6346\223\micross\st\0160132-apt-esprenstage.dgn



SA
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 STRAND ASSOCIATES*
 (815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISED -
	DRAWN - AJJ	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

US 30 PRE-STAGE CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 344+10.00 TO STA. 346+00.00

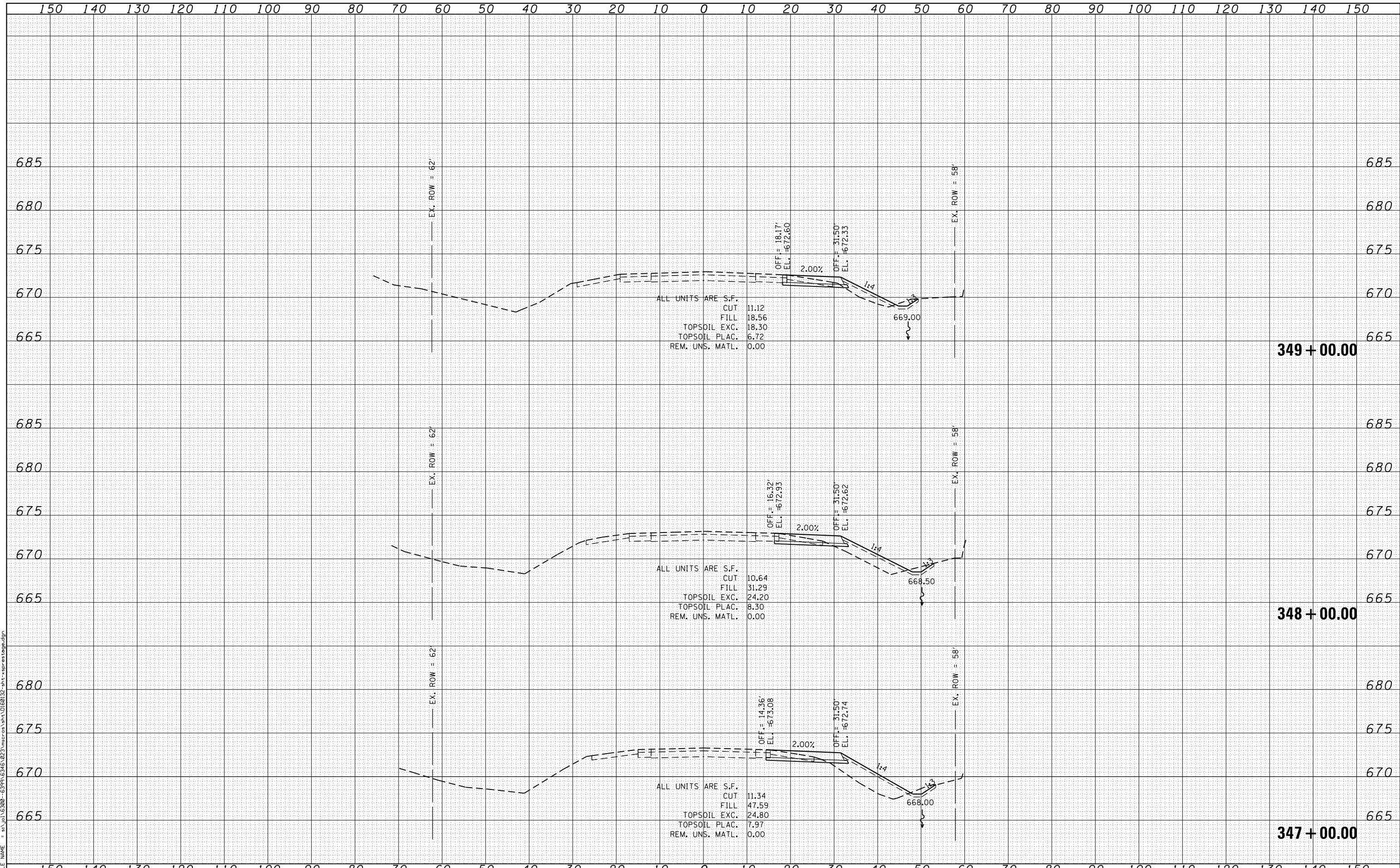
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	390
CONTRACT NO. 60132				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

FILE NAME = s:\p1\15200-6399-6346\22\micross\st\0180132-art-asprenstage.dgn



STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISIED -
	DRAWN - AJJ	REVISIED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISIED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

US 30 PRE-STAGE CROSS SECTIONS

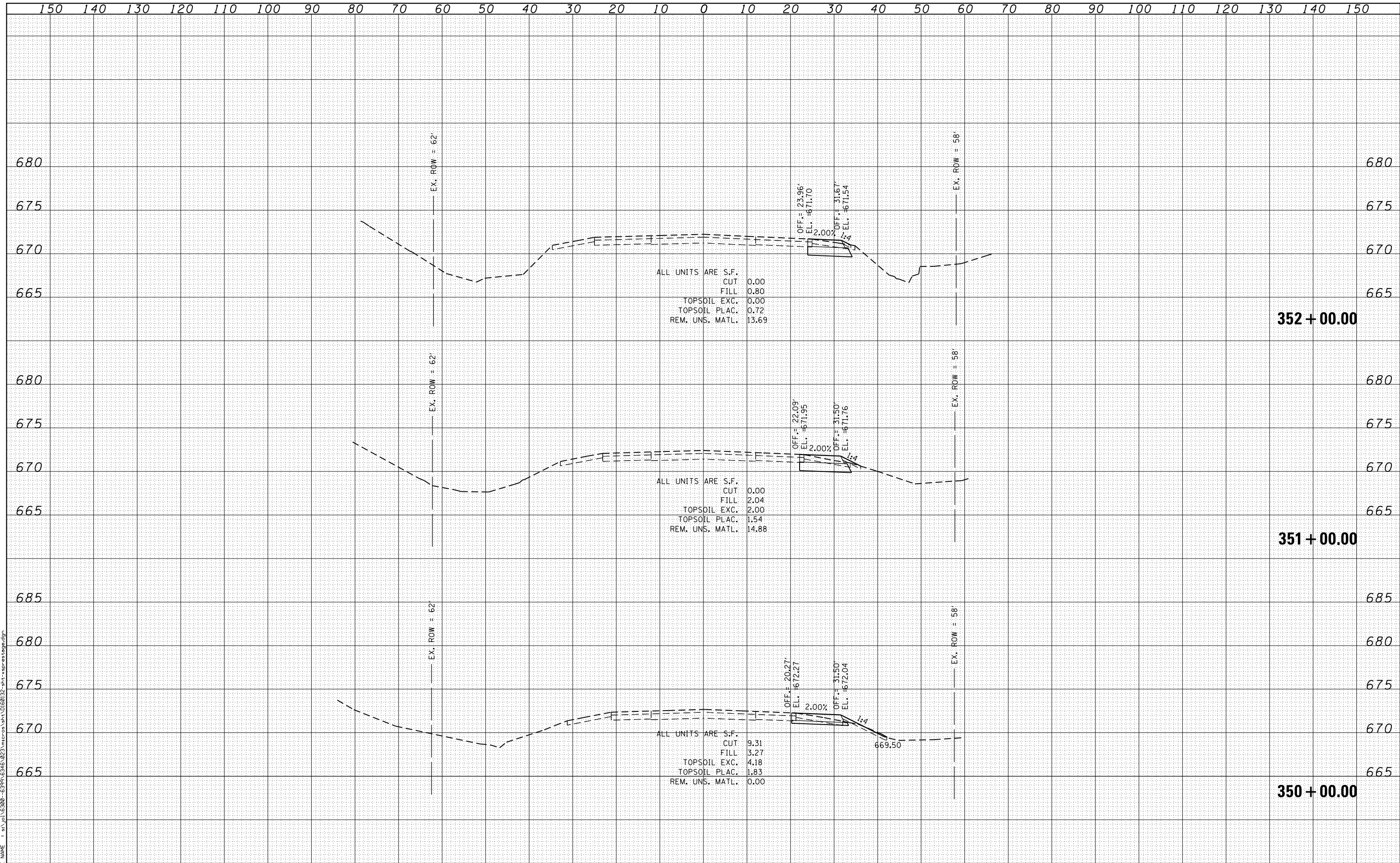
SCALE: SHEET OF SHEETS STA. 347+00.00 TO STA. 349+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	391
CONTRACT NO. 60132				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = s:\p1\16300-6394-6346\223\micross\stn\0160132-apt-ssprts\stage.dgn



SA STRAND ASSOCIATES*
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISIED -
	DRAWN - AJJ	REVISIED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISIED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US 30 PRE-STAGE CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 350+00.00 TO STA. 352+00.00

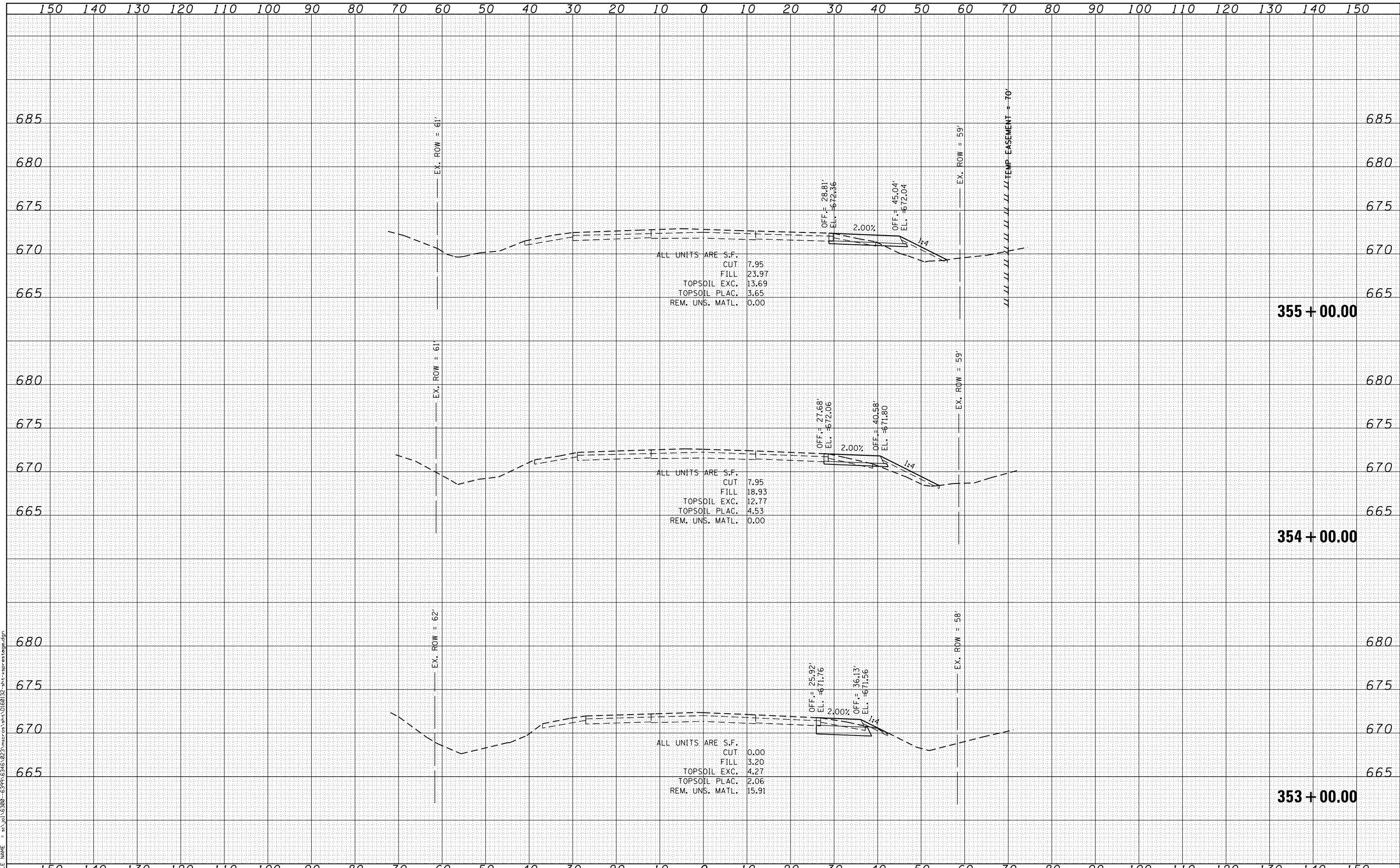
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	392
CONTRACT NO. 60132				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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

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

FILE NAME = s:\p1\16300-6394-6346\23\micross\stn\0160132-art-aspresstage.dgn



STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - AJJ	REVISED -
PLOT DATE = 5/14/2012	CHECKED - BMA	REVISED -
	DATE 4/25/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

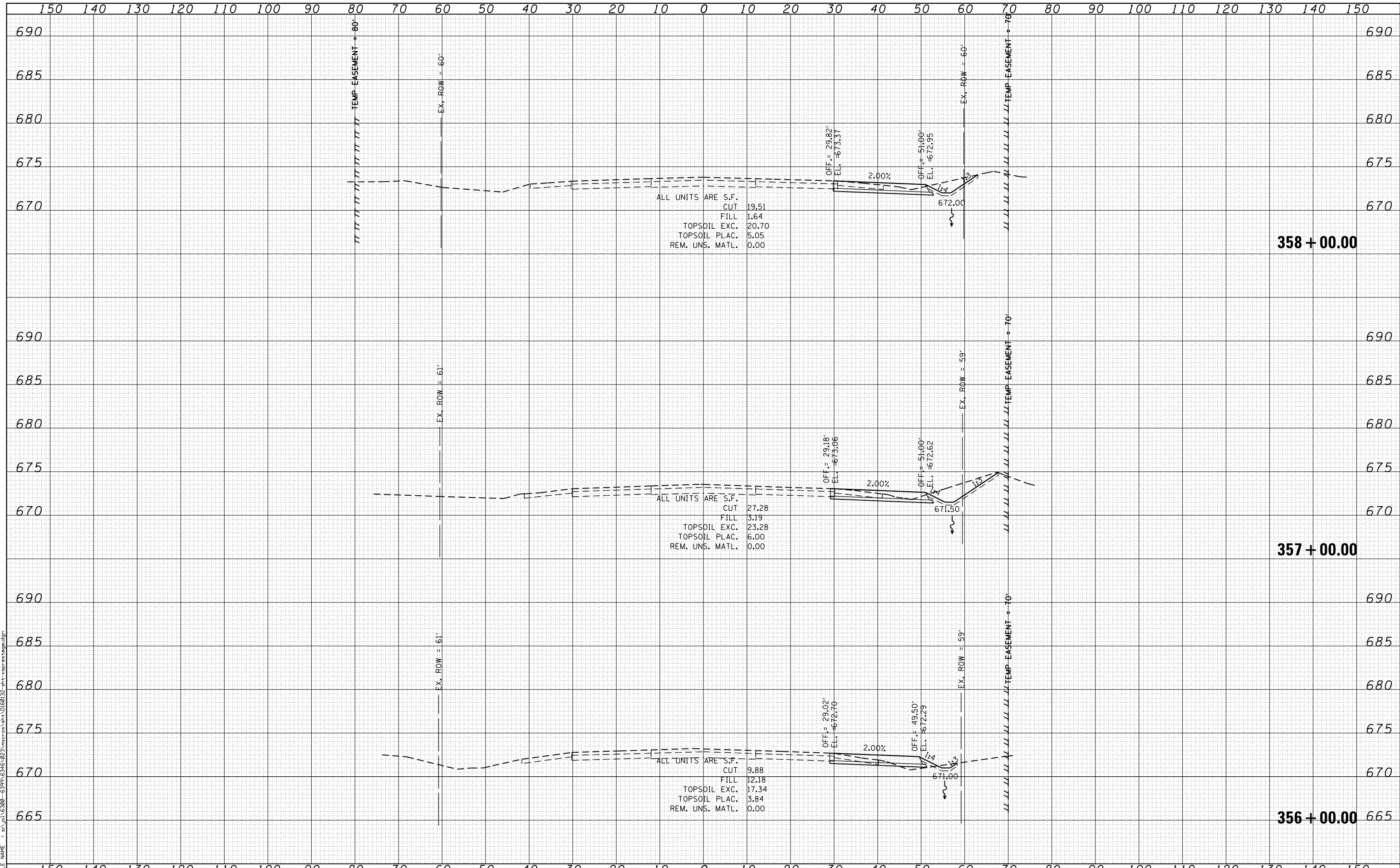
US 30 PRE-STAGE CROSS SECTIONS	
SCALE:	SHEET OF SHEETS
STA. 353+00.00 TO STA. 355+00.00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	393
CONTRACT NO. 60132				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

FILE NAME = s:\p1\15300-6394\6346\223\micross\stn\0160132-art-ssprts1.dgn



SA 1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
STRAND (815) 744-4200
ASSOCIATES*

USER NAME = amanda.j	DESIGNED - MAG	REVISED -
	DRAWN - AJJ	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US 30 PRE-STAGE CROSS SECTIONS

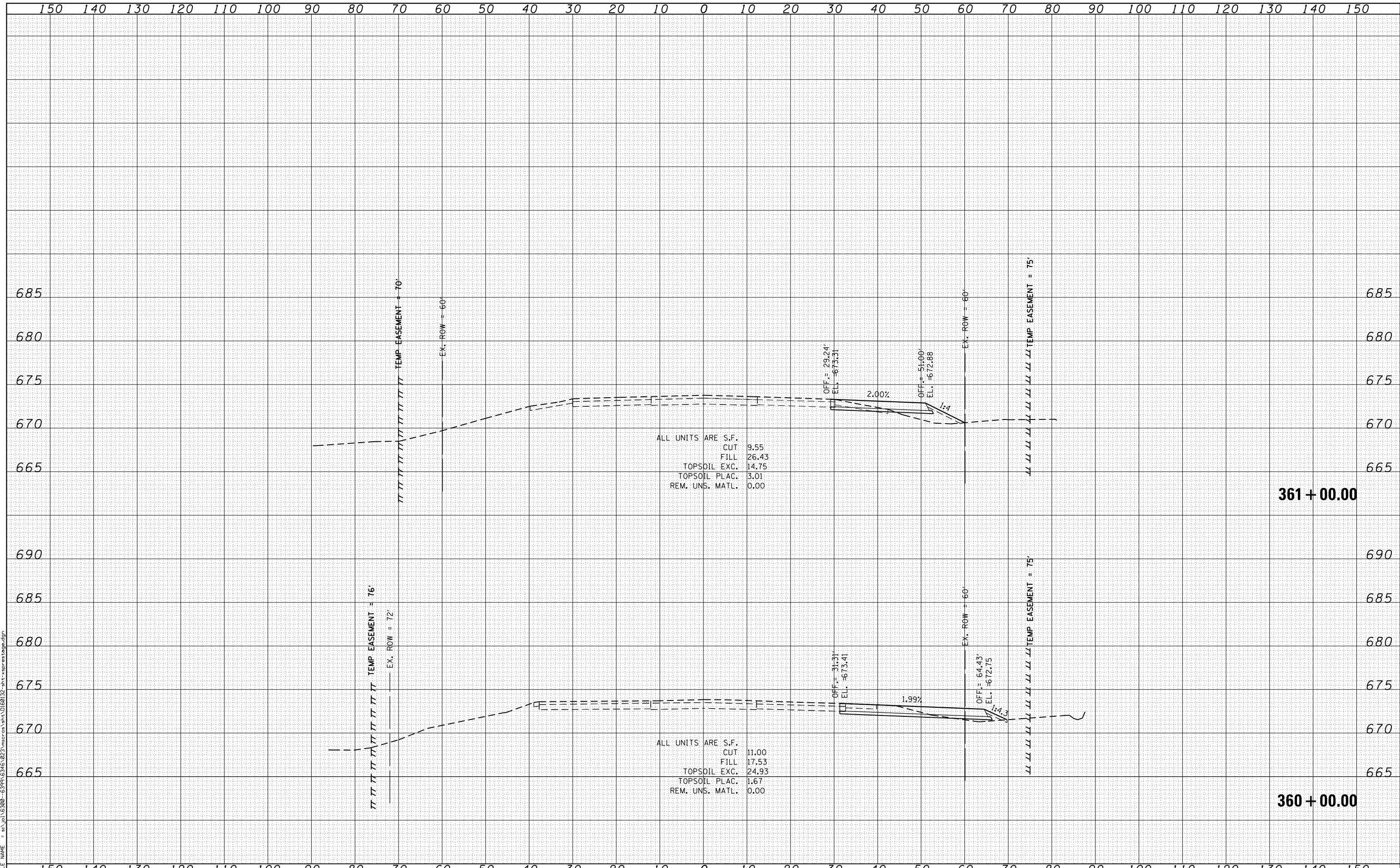
SCALE: SHEET OF SHEETS STA. 356+00.00 TO STA. 358+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	394
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60132	

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

FILE NAME = s:\p1\16300-6399\6346\023\micross\st1\0160132-apt-ssprestage.dgn



STRAND ASSOCIATES*
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISED -
	DRAWN - AJJ	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

US 30 PRE-STAGE CROSS SECTIONS

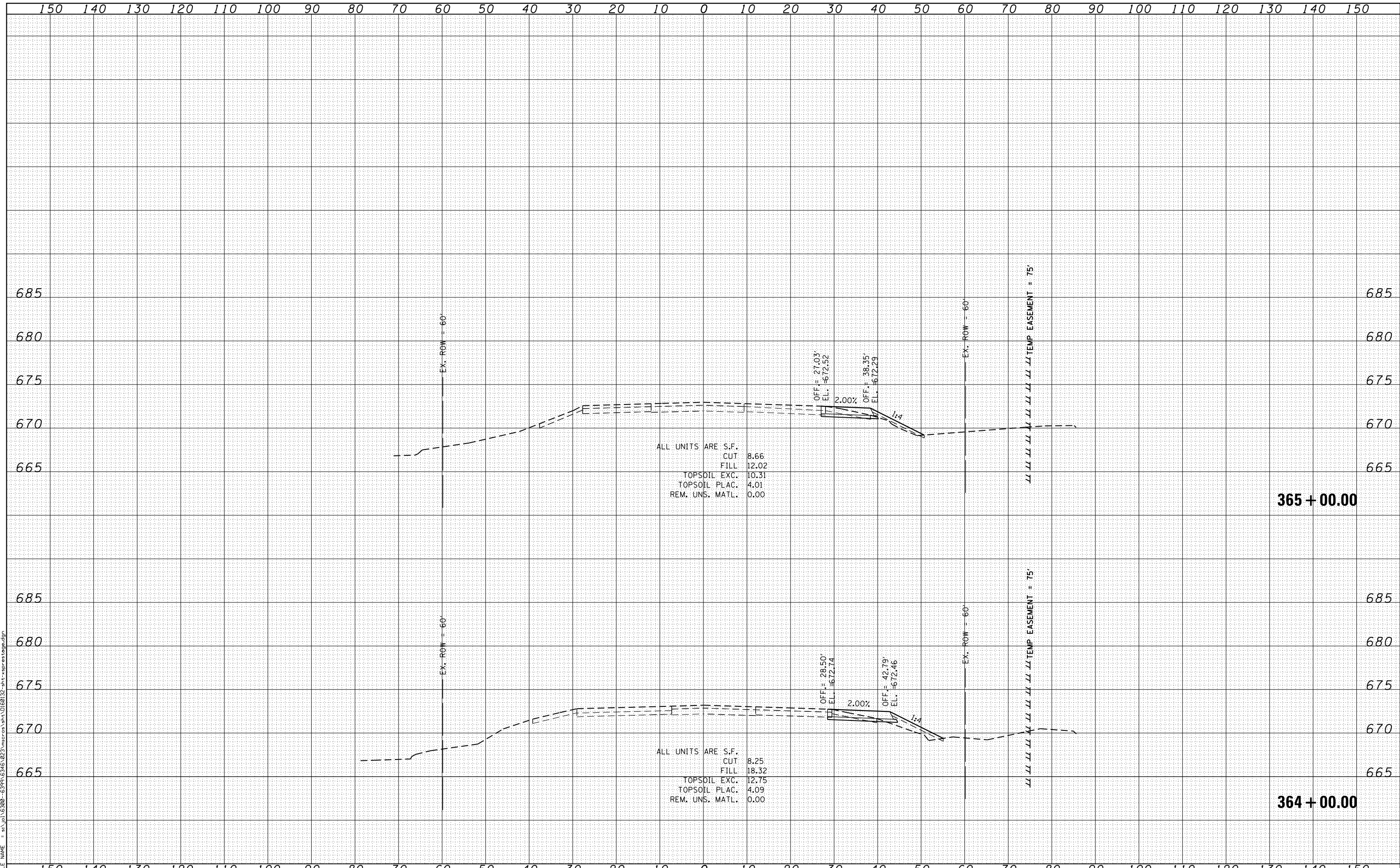
SCALE: SHEET OF SHEETS STA. 360+00.00 TO STA. 361+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	395
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60132	

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

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

FILE NAME = s:\p1\6300-6399-6346\223\micross\st1\0180132-ant-esprnt.dgn



STRAND ASSOCIATES*
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - AJJ	REVISED -
PLOT DATE = 5/14/2012	CHECKED - BMA	REVISED -
	DATE 4/25/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

US 30 PRE-STAGE CROSS SECTIONS

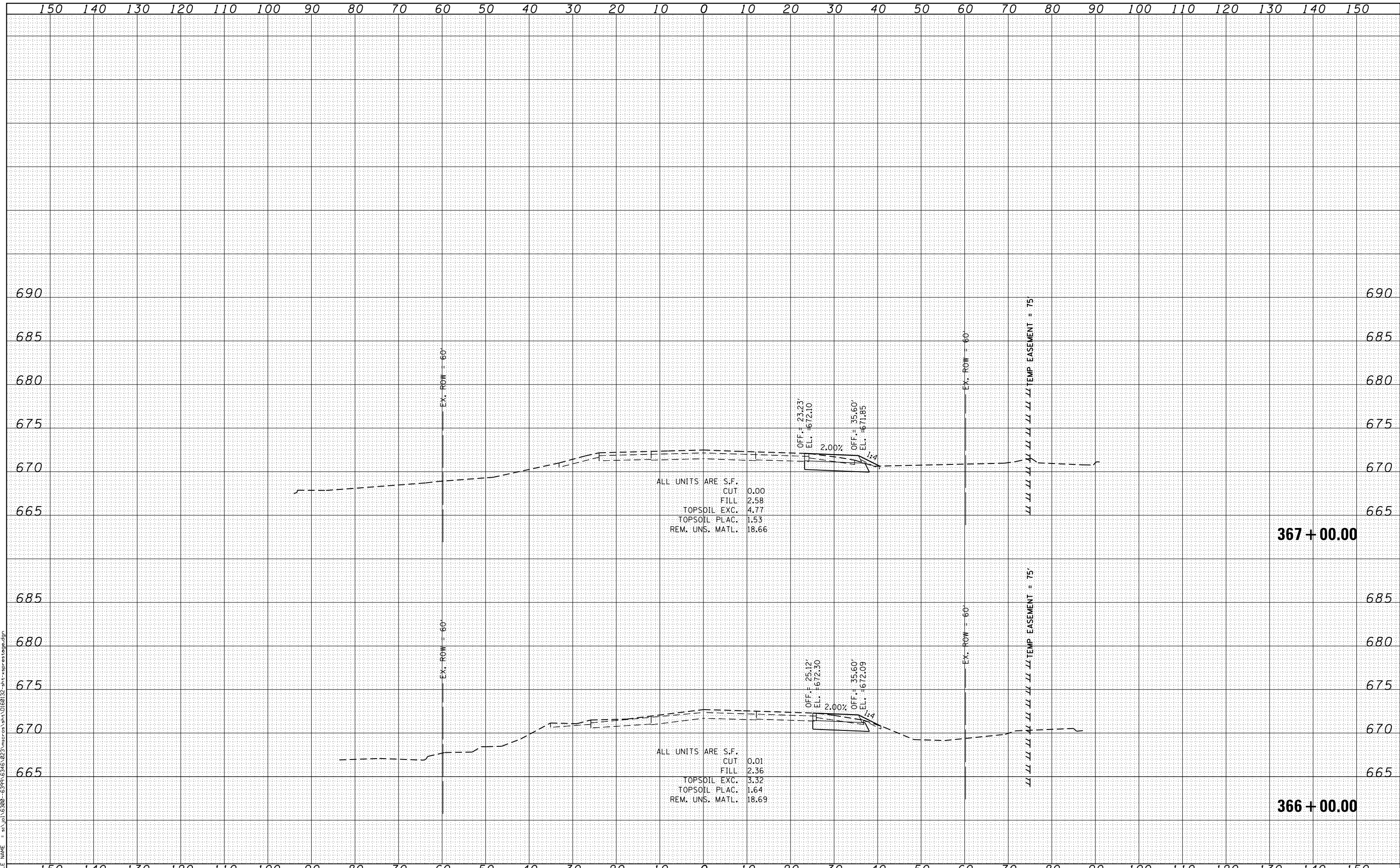
SCALE: SHEET OF SHEETS STA. 364+00.00 TO STA. 365+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	397
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60132	

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

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

FILE NAME = s:\p1\6300-6399-6346\23\micross\st1\0180132-art-esprensteg.dgn



SA STRAND ASSOCIATES*
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISIED -
	DRAWN - AJJ	REVISIED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISIED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

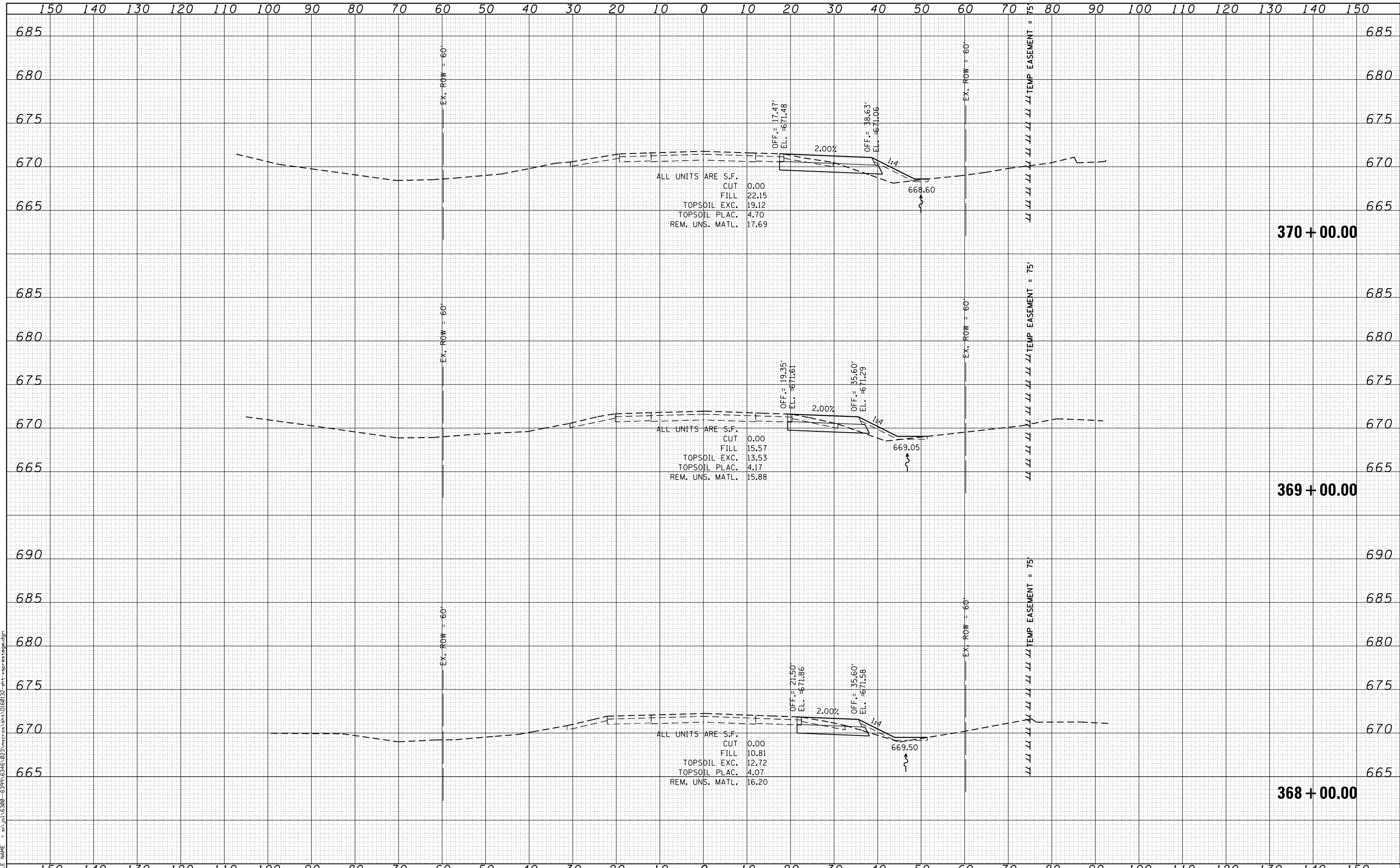
US 30 PRE-STAGE CROSS SECTIONS
 SCALE: SHEET OF SHEETS STA. 366+00.00 TO STA. 367+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	398
CONTRACT NO. 60132				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

FILE NAME = s:\p1\6300-6399\6346\223\micross\st1\0180132-art-esprenstage.dgn



STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = amandaj	DESIGNED - MAG	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - AJJ	REVISED -
PLOT DATE = 5/14/2012	CHECKED - BMA	REVISED -
	DATE 4/25/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

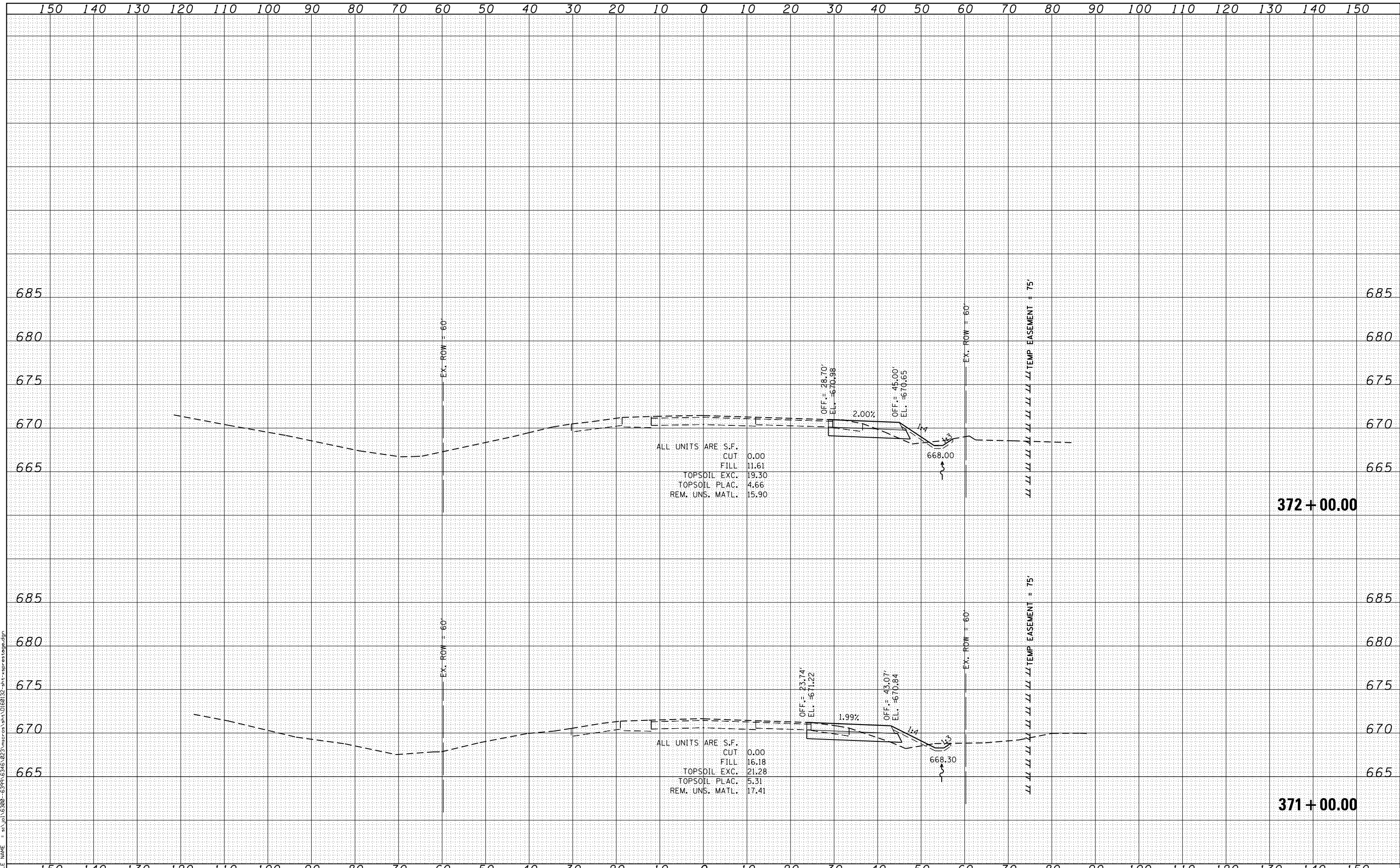
US 30 PRE-STAGE CROSS SECTIONS	
SCALE:	SHEET OF SHEETS
STA. 368+00.00 TO STA. 370+00.00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	399
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60132	

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

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

FILE NAME = s:\p1\6300-6399\6346\923\micross\stn\0168132-art-esprnt.dgn



STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = amanda.j	DESIGNED - MAG	REVISED -
	DRAWN - AJJ	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - BMA	REVISED -
PLOT DATE = 5/14/2012	DATE 4/25/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

US 30 PRE-STAGE CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 371+00.00 TO STA. 372+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3	KENDALL	527	400
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60132	