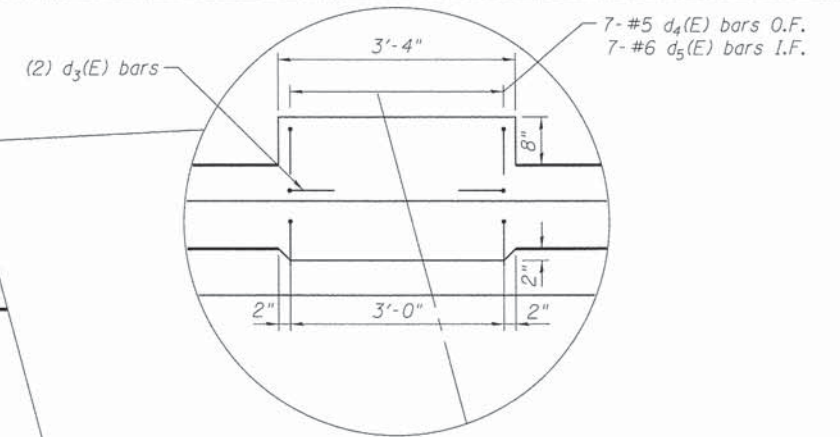
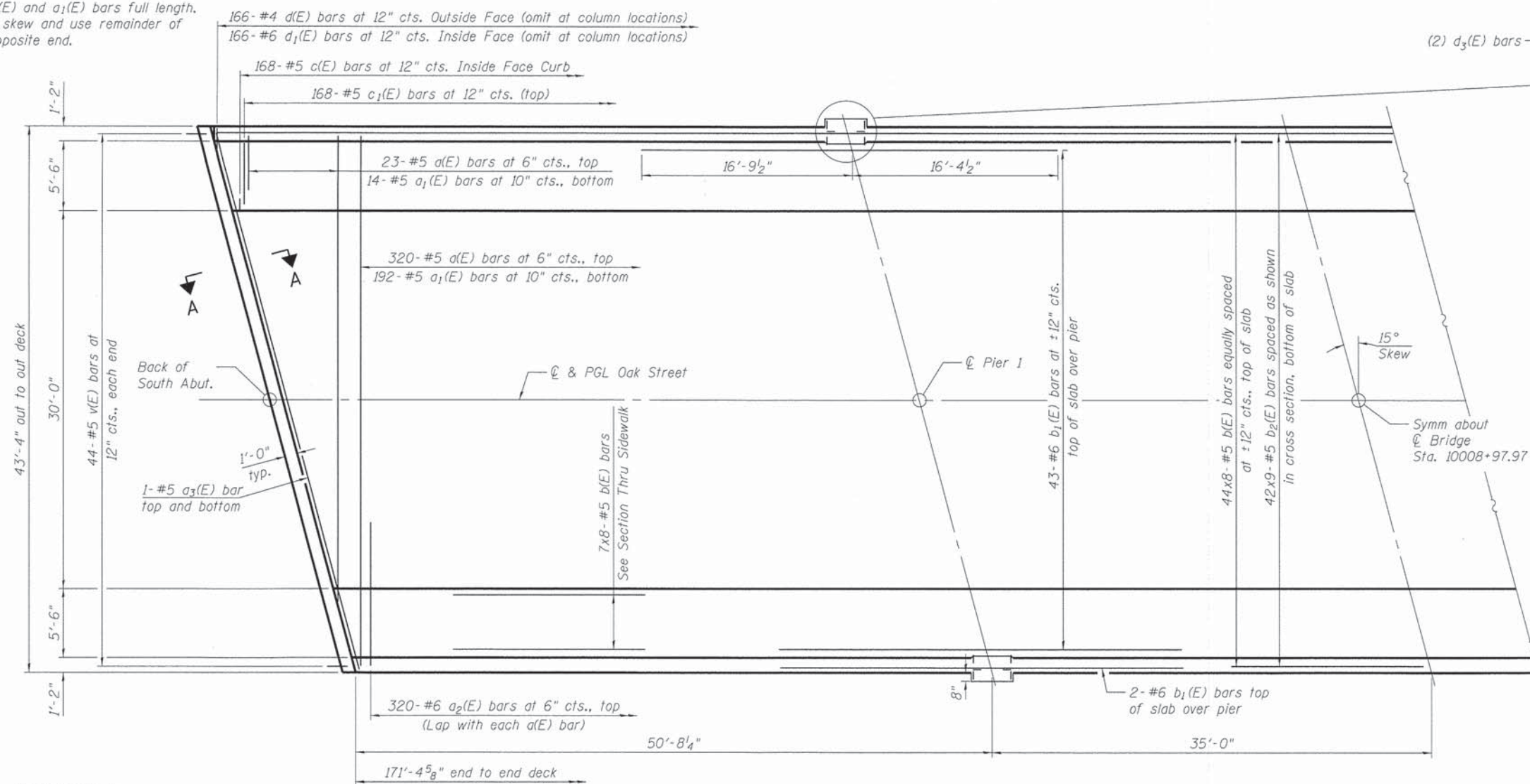


* Order a(E) and a₁(E) bars full length.
Cut to fit skew and use remainder of
bars in opposite end.

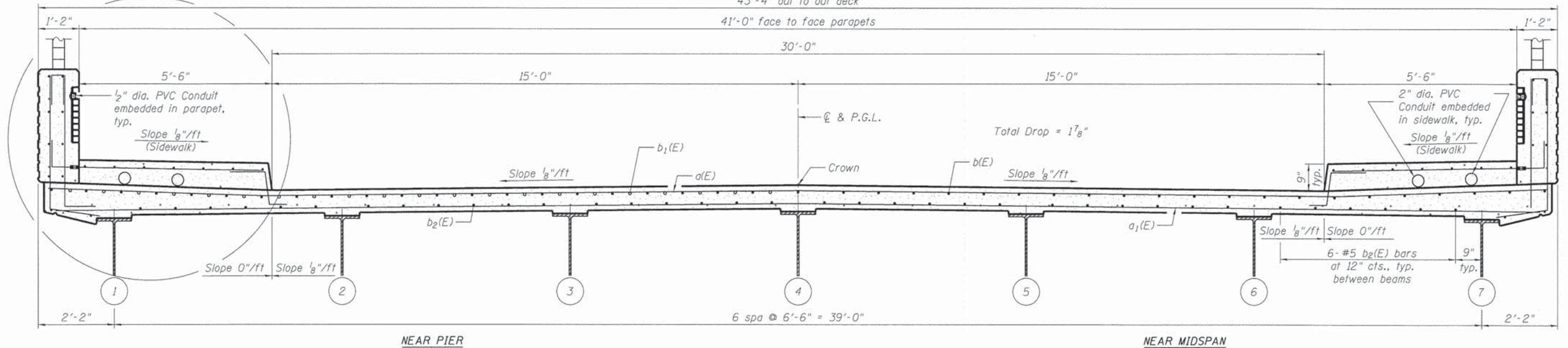


Notes:
See Sheet SB-12 for superstructure details
and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates
20 lines of bars with 3 lengths per line.
See Sheet SB-11 for parapet reinforcement.

MINIMUM BAR LAP
#5 bar = 2'-7"

See Sheet S-11
for Sidewalk
Details

PARTIAL PLAN
43'-4" out to out deck
41'-0" face to face parapets
30'-0" width



NEAR PIER

CROSS SECTION
(Looking North)

NEAR MIDSPAN

COMPANY NAME: HR GREEN
PROJECT CONTACT: T. SCOTT GREEN, P.E.
CLIENT: VILLAGE OF HINDSDALE
DATE PLOTTED: 12/15/2014 15:23:33 PM
FILE NAME: 032-STR-SB-Super.dgn
PLOT DRIVER: pdfplot
PEN TABLE: standard-trans.tbl



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#184-001322

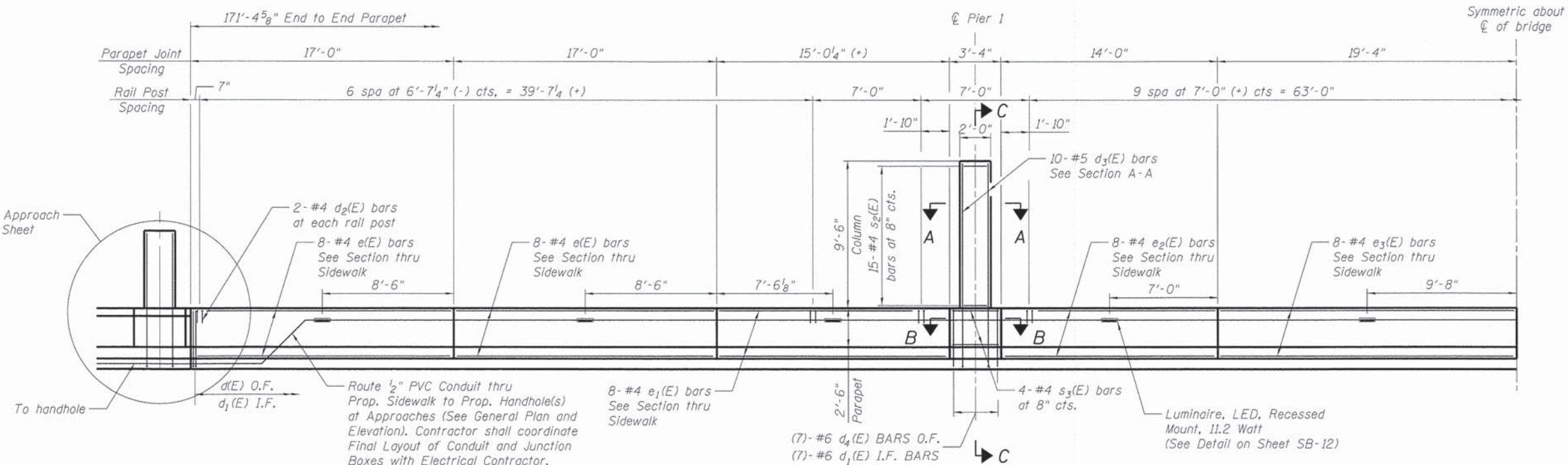
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PLOT SCALE =	CHECKED - RDG	REVISED -
PLOT DATE = 12/15/2014	DRAWN - WJH	REVISED -
	CHECKED - 12/15/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 022-6404

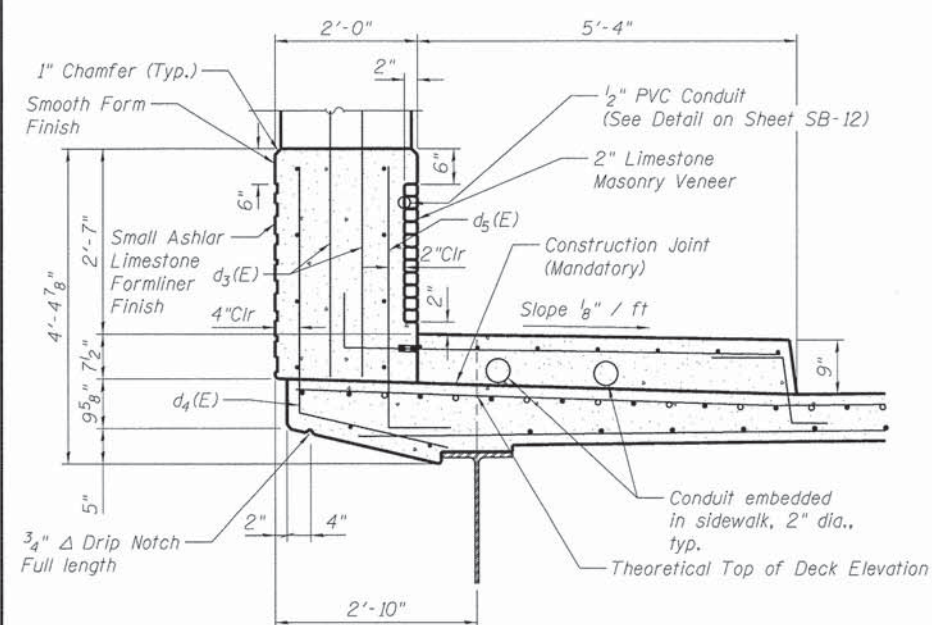
SHEET NO. SB-10 OF SB-29 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61811				
ILLINOIS FED. AID PROJECT BRM-9003(699)				

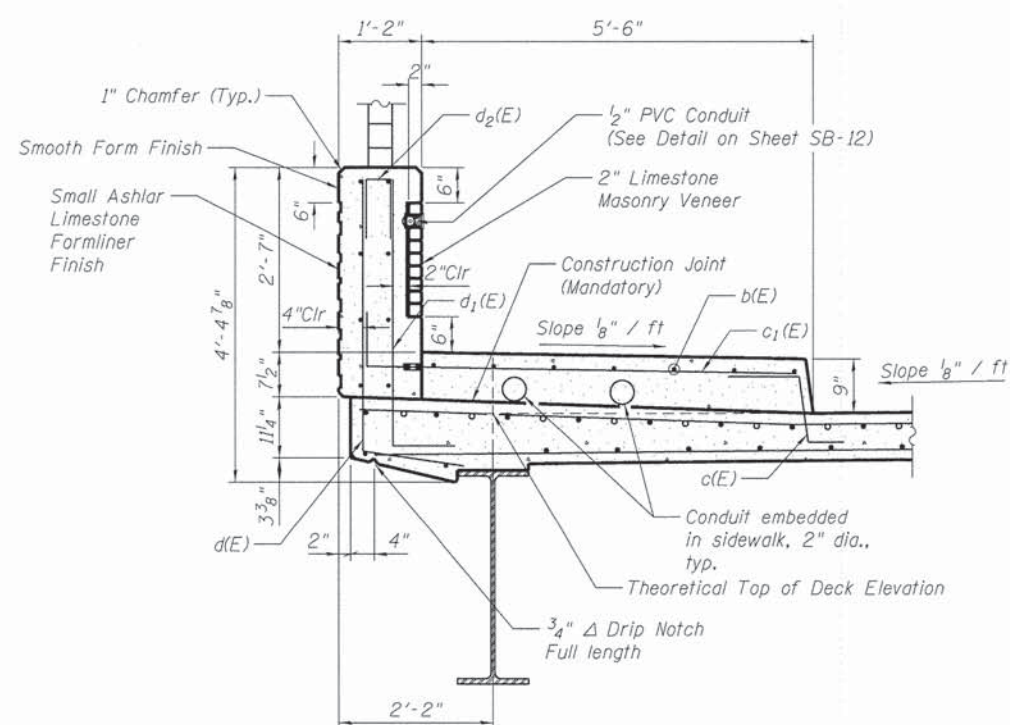


INSIDE ELEVATION OF PARAPET

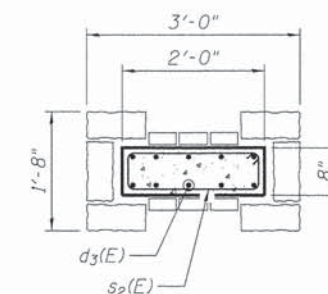
O.F. = Outside Face
I.F. = Inside Face



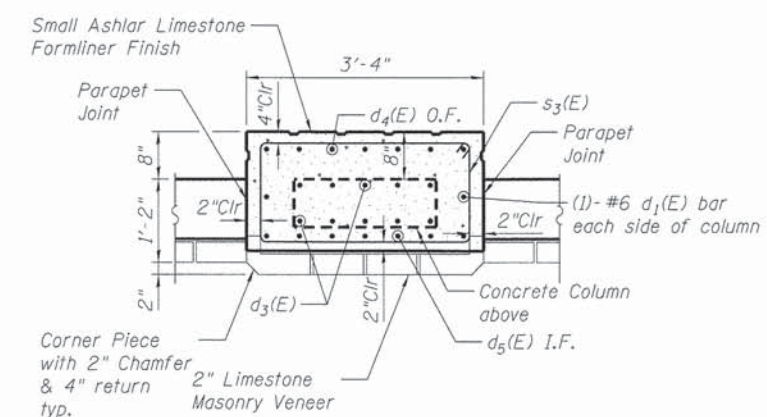
SECTION C-C



SECTION THRU SIDEWALK



SECTION A-A



SECTION B-B

COMPANY NAME: HR GREEN
PROJECT CONTACT: T. SCOTT CREECH, P.E.
CLIENT: VILLAGE OF HINSDALE
DATE PLOTTED: 12/15/2014 15:53:36 PM
FILE NAME: 022-STR-SB-Super-Details.dgn
PLOT DRIVER: pdfplot
PEN TABLE: standard-trans.tbl



USER NAME = whood	DESIGNED - JMW	REVISED -
PLOT SCALE =	CHECKED - RDG	REVISED -
PLOT DATE = 12/15/2014	DRAWN - WJH	REVISED -
	CHECKED - 12/15/14	REVISED -

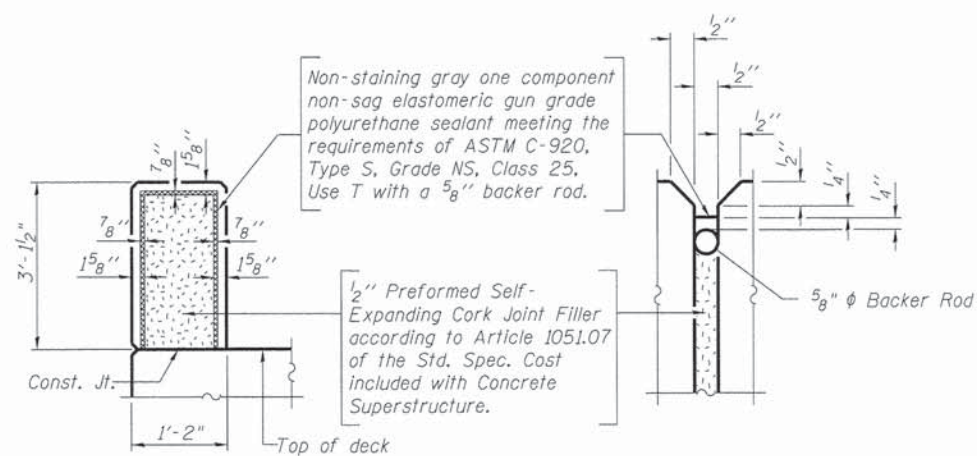
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 022-6404

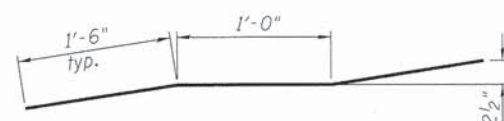
SHEET NO. SB-11 OF SB-29 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61B11				
ILLINOIS FED. AID PROJECT BRM-9003(699)				

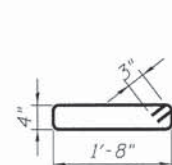
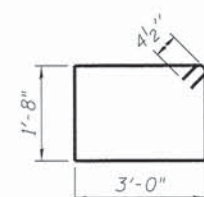
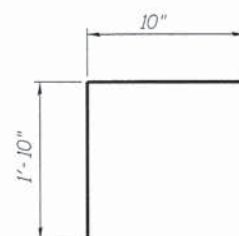
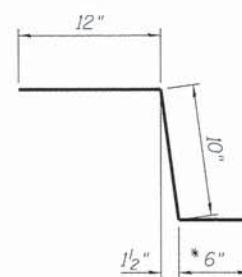
SUPERSTRUCTURE
BILL OF MATERIAL



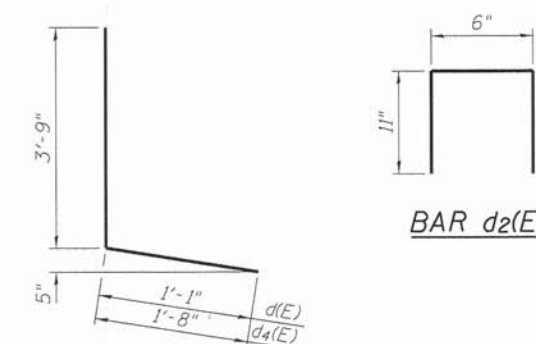
PARAPET JOINT DETAILS



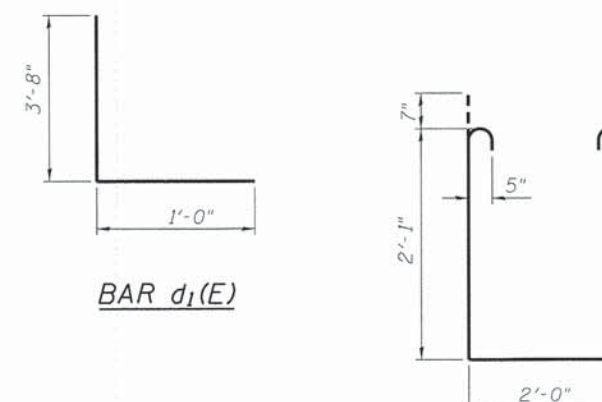
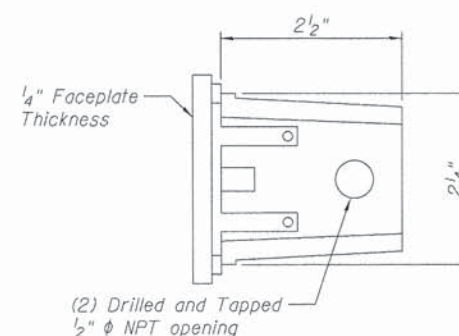
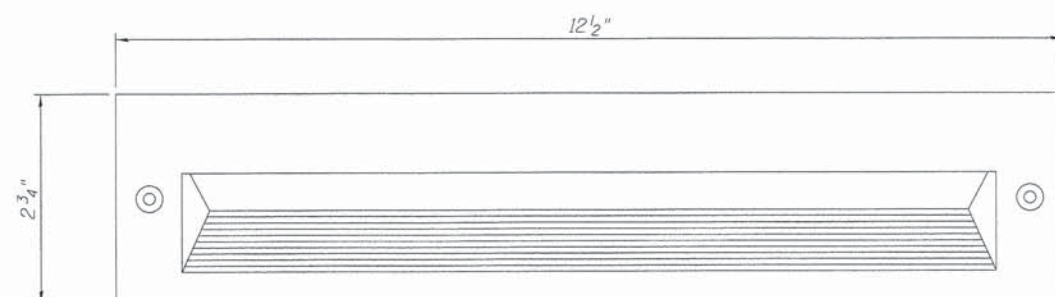
BAR $m_3(E)$

 $BAR \ s_2(E)$  $BAR \ s_3(E)$  $BAR \ v(E)$  $BAR \ c(E)$

* In lieu of bottom leg, c(E) bars may be cored and set according to Article 509.06 of the Standard Specifications. Cored holes shall be roughed or scored per manufacturer's recommendations. Maximum depth of cored hole shall not exceed 6".

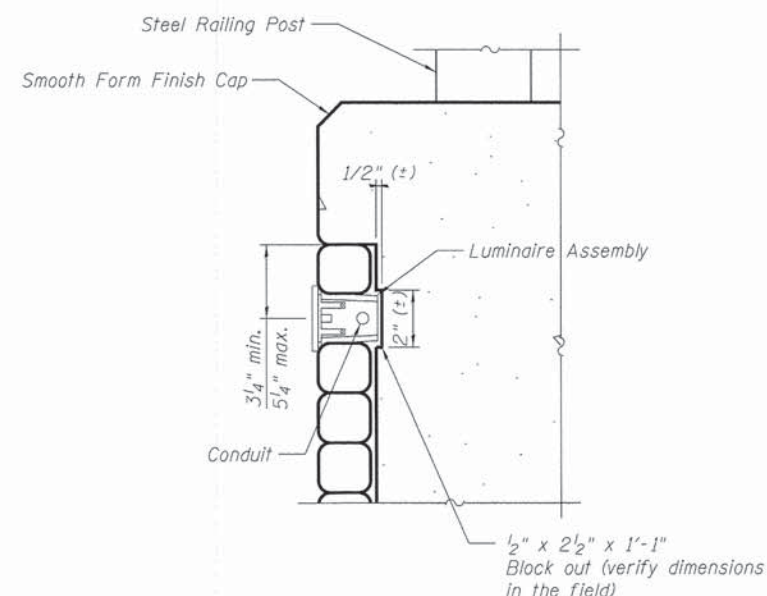


BAR $d(E)$ AND $d_4(e)$

 $BAR \ d_1(E)$ $BAR \ s_I(E)$ 

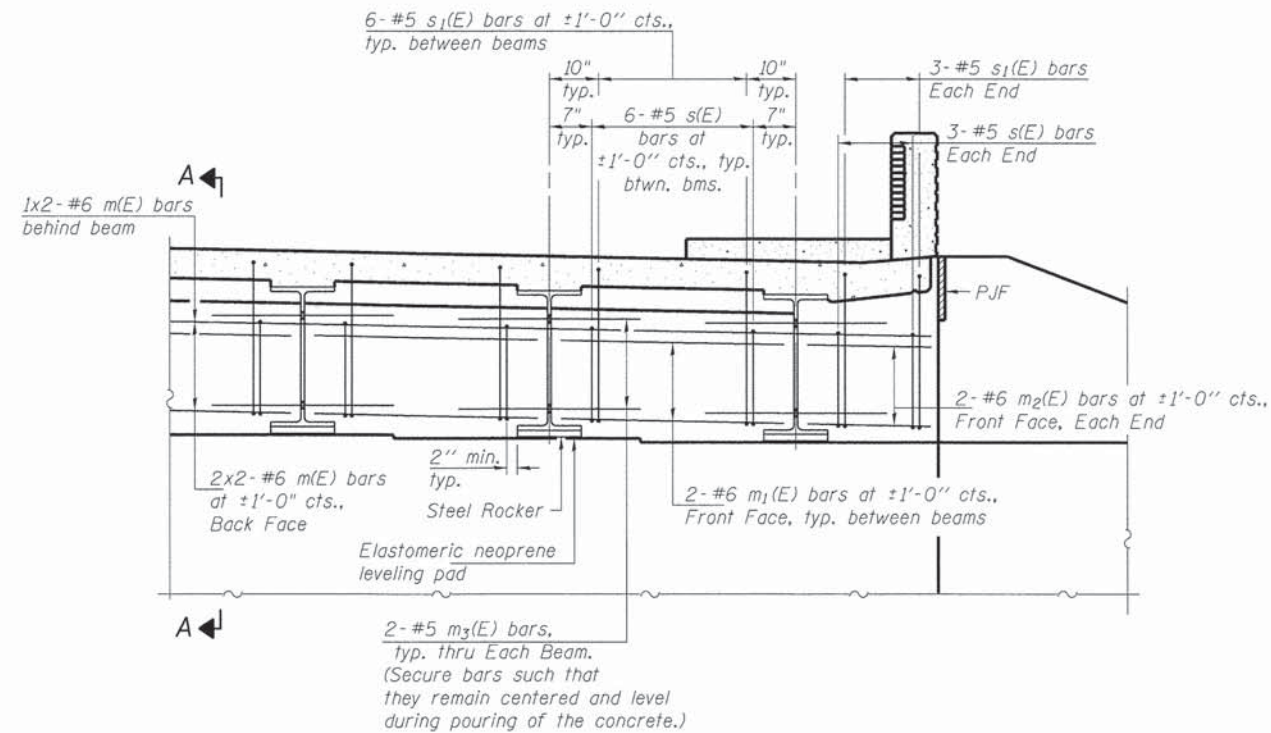
LUMINAIRE DETAIL

BEGA Recessed Wall Luminaire # 2384LED
Paid for as Luminaire, LED, Recessed Mount, 11.2 Watt

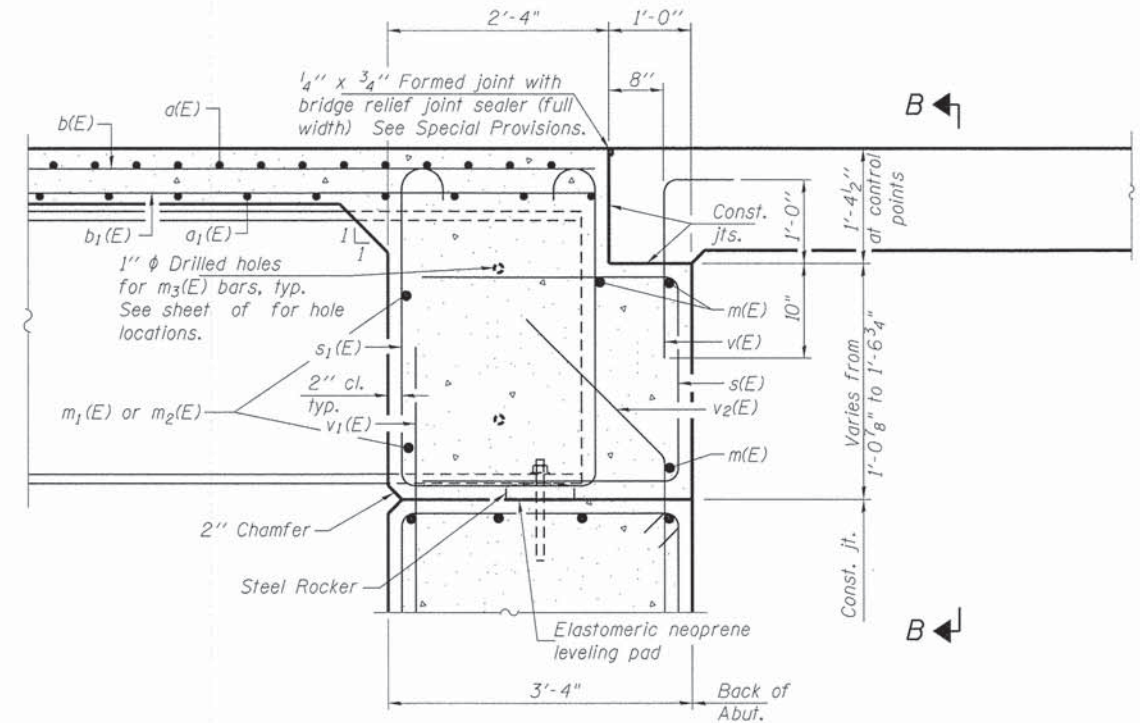


Bar	No.	Size	Length	Shape
a (E)	343	#5	42'- 8"	—
a ₁ (E)	206	#5	40'- 0"	—
a ₂ (E)	640	#6	6'- 6"	—
a ₃ (E)	4	#5	44'- 10"	—
b (E)	464	#5	23'- 8"	—
b ₁ (E)	94	#6	33'- 2"	—
b ₂ (E)	378	#5	21'- 4"	—
c (E)	336	#5	2'- 5"	⌒
c ₁ (E)	336	#5	6'- 4"	—
d (E)	332	#4	4'- 10"	└
d ₁ (E)	368	#6	4'- 8"	└
d ₂ (E)	104	#4	2'- 4"	┐
d ₃ (E)	40	#5	12'- 0"	—
d ₄ (E)	28	#6	4'- 8"	└
e (E)	64	#4	16'- 8"	—
e ₁ (E)	32	#4	14'- 8"	—
e ₂ (E)	32	#4	13'- 8"	—
e ₃ (E)	32	#4	19'- 0"	—
m (E)	12	#6	24'- 3"	—
m ₁ (E)	24	#6	6'- 2"	—
m ₂ (E)	8	#6	1'- 10"	—
m ₃ (E)	28	#5	4'- 0"	—
s (E)	84	#5	6'- 4"	⌌
s ₁ (E)	84	#5	7'- 4"	⌌
s ₂ (E)	60	#4	4'- 6"	⌌
s ₃ (E)	16	#4	10'- 1"	⌌
v (E)	88	#5	2'- 8"	└
Concrete Superstructure			Cu. Yd.	325.5
Bridge Deck Grooving			Sq. Yd.	572
Protective Coat			Sq. Yd.	921
Reinforcement Bars, Epoxy Coated			Pound	66,670
Bar Splicers			Each	336

Bars indicated thus 1 x 2- #5 etc. indicates 1 line of bars with 2 lengths per line.

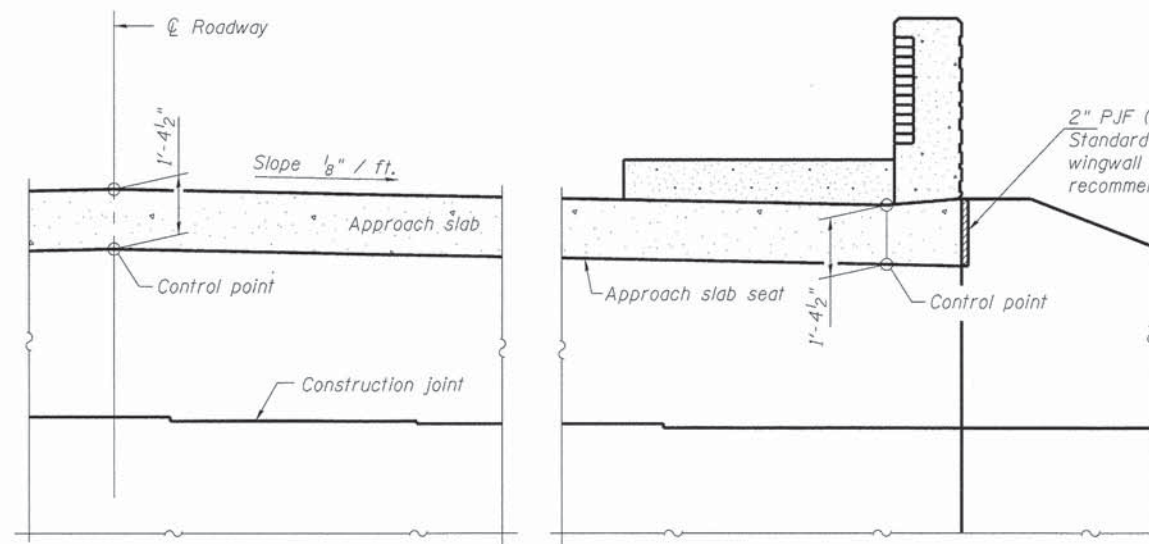


DIAPHRAGM ELEVATION AT ABUTMENT

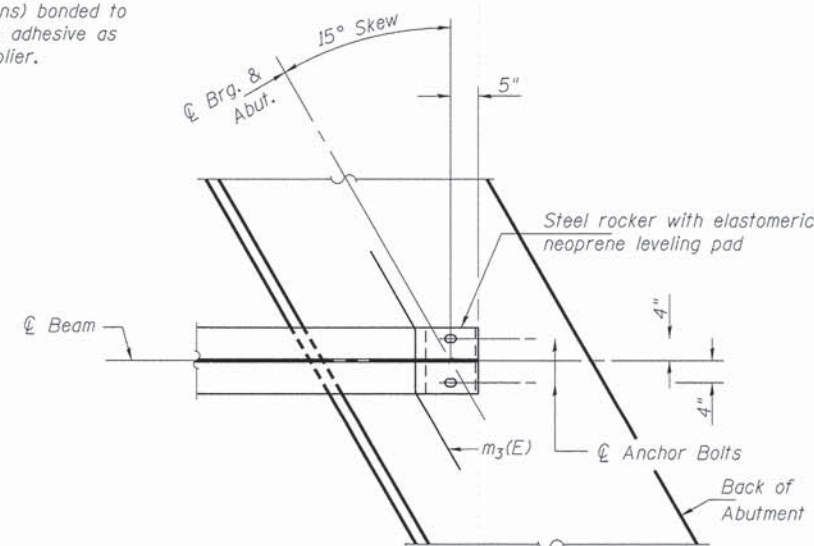


SECTION A-A
(at Rt. L's)

MIN. BAR LAP
#6 bar = 3'-10"



SECTION B-B



PARTIAL PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet SB-12.

Concrete in diaphragm is included with Concrete Superstructure on sheet SB-12.

For details of bars $s(E)$, $s_1(E)$ and $v(E)$ see sheet SB-12.

The $s(E)$ and $s_1(E)$ bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

The approach slab seat shall have a constant slope determined from the control points shown.

For bearing details see sheet SB-18.

COMPANY NAME: HR GREEN
PROJECT CONTACT: T. SCOTT GREEN, P.E.
CLIENT: VILLAGE OF HINSDALE
DATE PLOTTED: 12/15/2014 15:24:41 PM
FILE NAME: 032 STR. SB Diaphragm-Details.dgn
PLOT DRIVER: pdf.plt
PEN TABLE: standard-trans.tbl



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Illinois Professional Design Firm
#184-001322

USER NAME = whood	DESIGNED - JMW	REVISED -
PLOT SCALE =	CHECKED - RDG	REVISED -
PLOT DATE = 12/15/2014	DRAWN - WJH	REVISED -
	CHECKED - 12/15/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

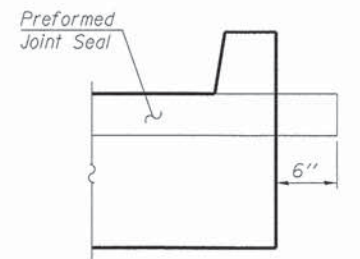
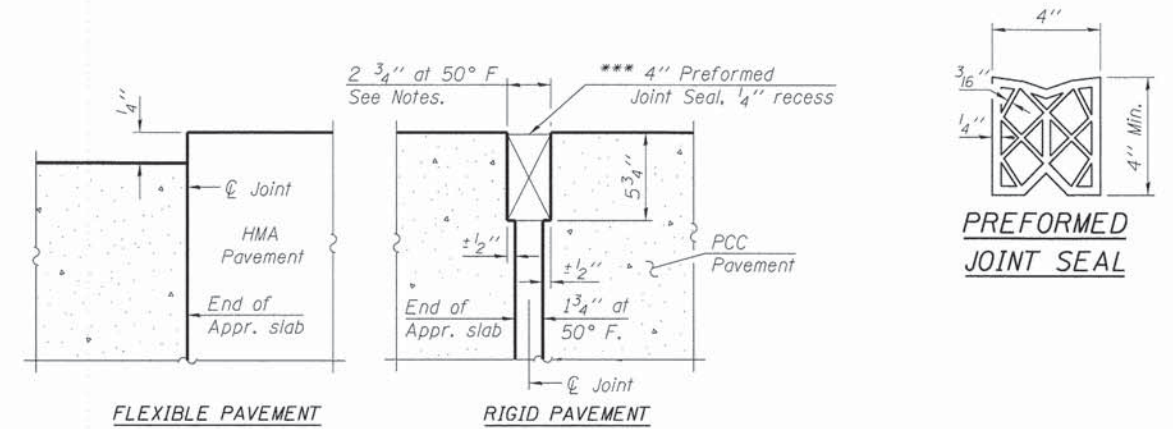
INTEGRAL ABUTMENT DIAPHRAGM DETAILS
STRUCTURE NO. 022-6404

SHEET NO. SB-13 OF SB-29 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	104
CONTRACT NO. 61B11				
ILLINOIS FED. AID PROJECT BRM-9003(699)				

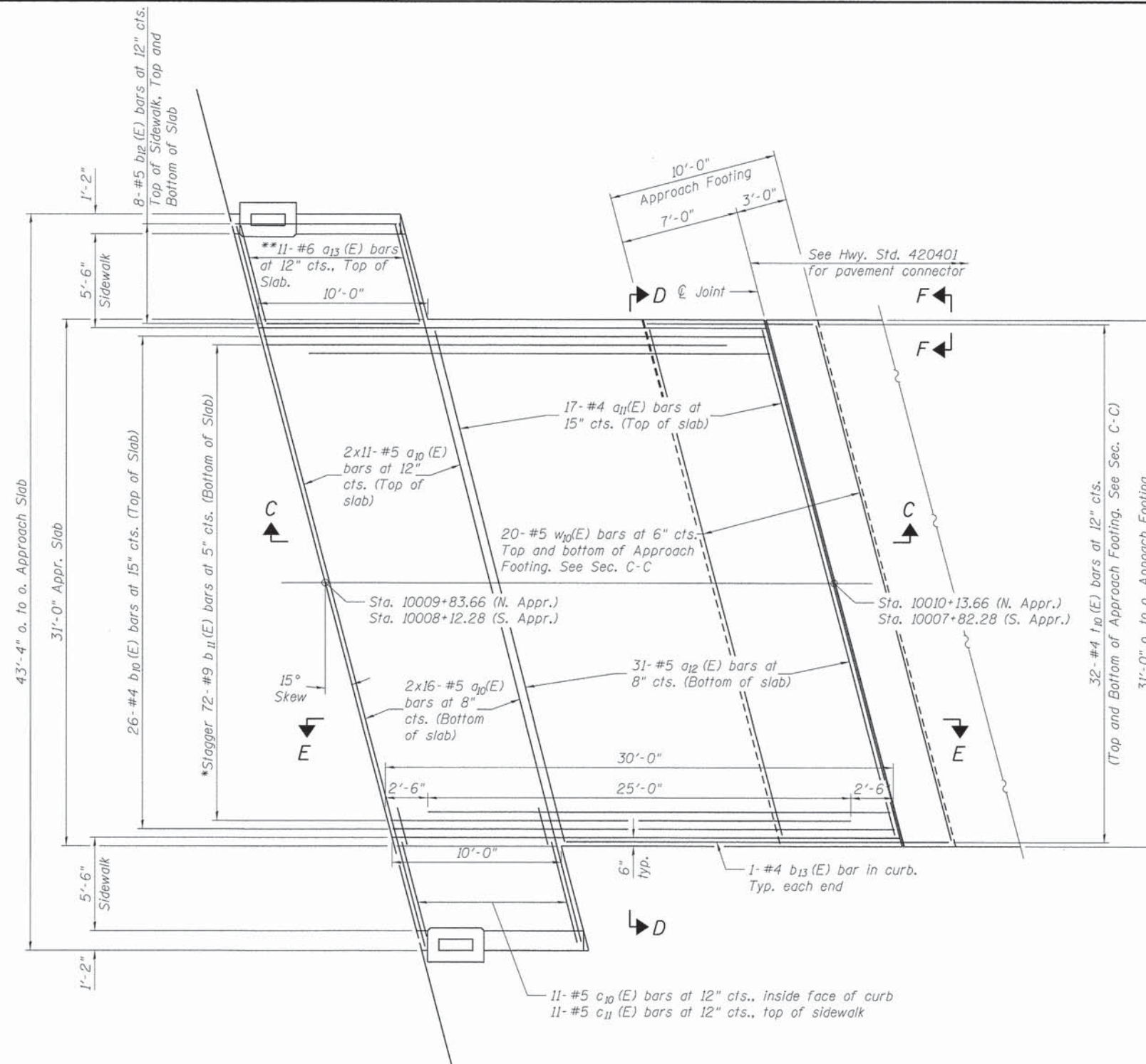
Notes:
See sheet SB-15 for Sections C-C & D-D and View E-E.
a₁₀(E) and a₁₁(E) bar spacings measured along $\perp$ Rdwy.
The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be 1 $\frac{1}{2}$ " for installation purposes.

*** Cost included with Concrete Superstructure.



VIEW F-F

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



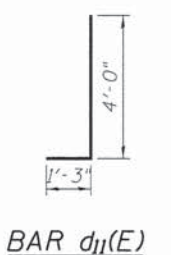
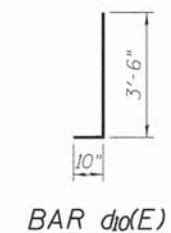
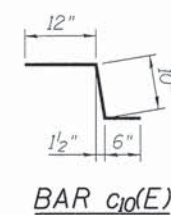
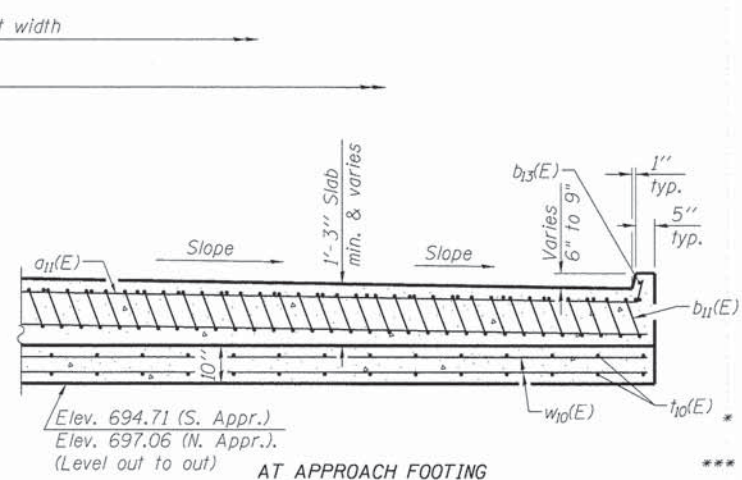
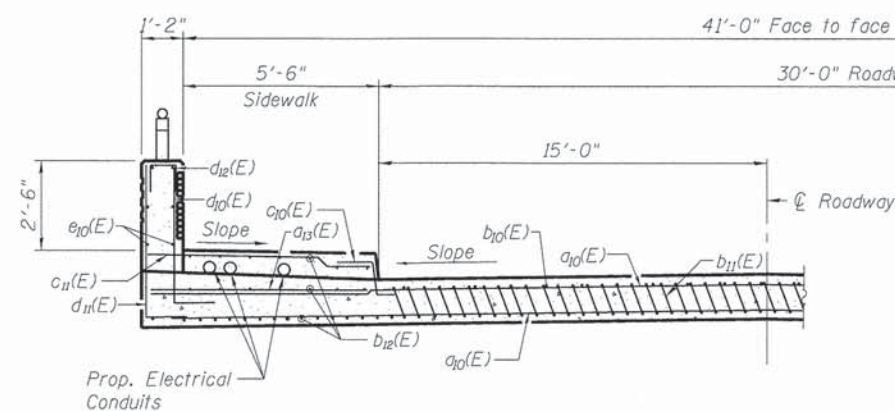
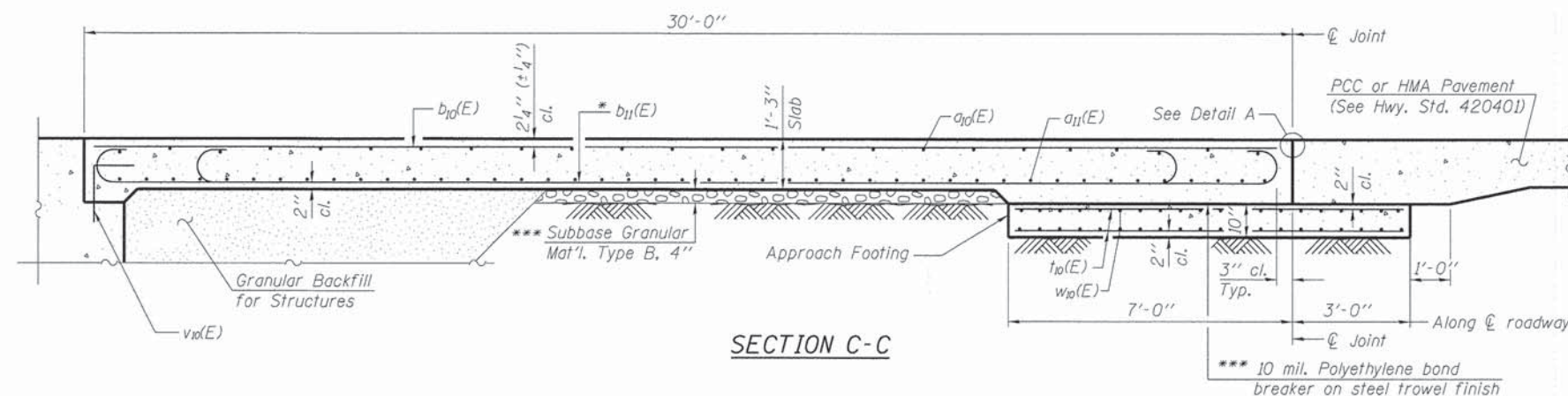
PLAN

* Tilt #9 b₁(E) bars as required to maintain clearance.
** Space between a(E) bars, typ. each parapet.

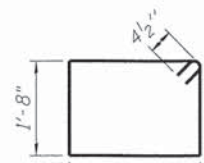
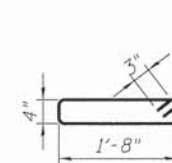


COMPANY NAME: HR GREEN
PROJECT CONTACT: T. SCOTT CREECH, P.E.
CLIENT: VILLAGE OF HINGSDALE
DATE PLOTTED: 12/15/2014 10:54:31 PM
FILE NAME: 032 STR_SB_Appr01.dgn
PLOT DRIVER: pct.dwt
PLOT TABLE: Standard Trans.tbl

 HRGreen.com Illinois Professional Design Firm #194-001322 HRGreen	USER NAME = whood	DESIGNED - JMW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 022-6404	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN - WJH	REVISED -			2999	10-00089-00-BR	DUPAGE	157	105
	PLOT DATE = 12/15/2014	CHECKED - 12/15/14	REVISED -			CONTRACT NO. 61B11				
	SHEET NO. SB-14 OF SB-29 SHEETS					ILLINOIS FED. AID PROJECT BRM-9003(699)				

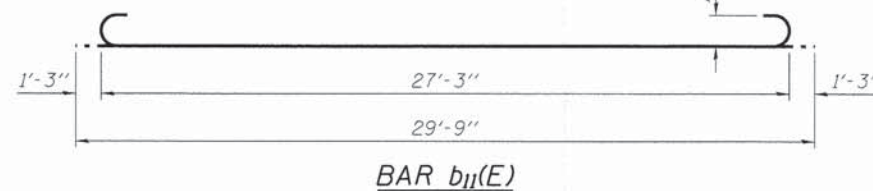
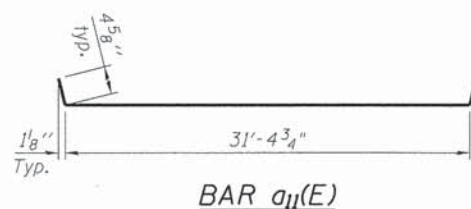
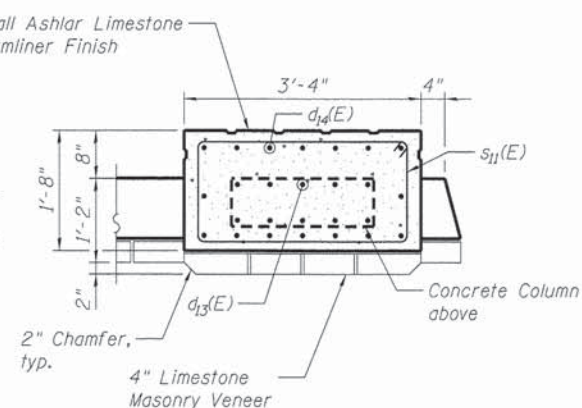
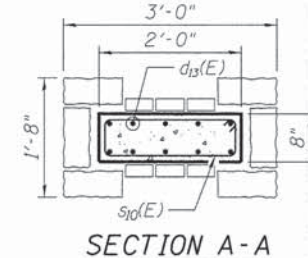
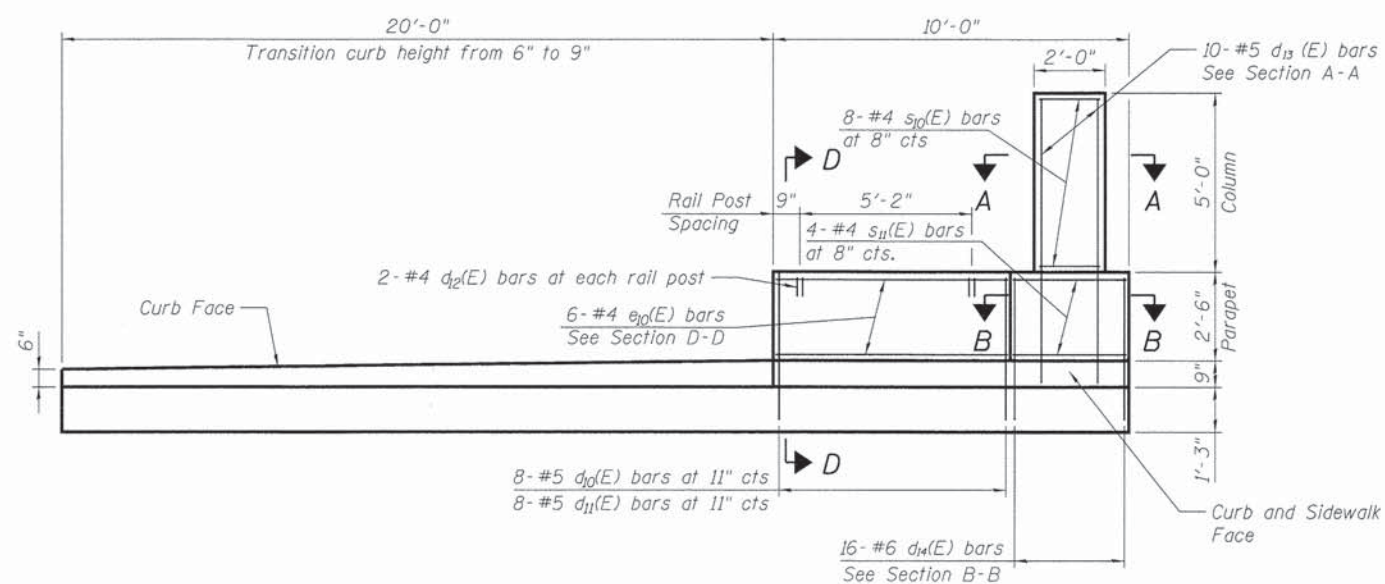


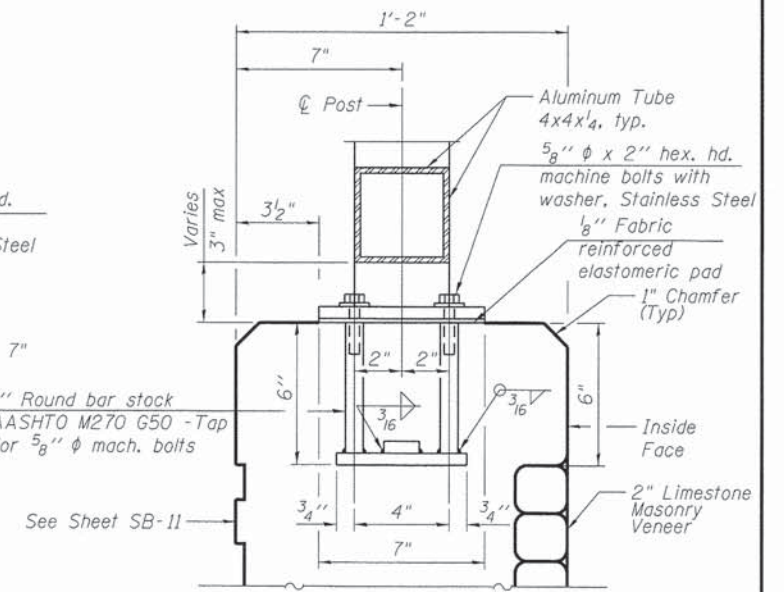
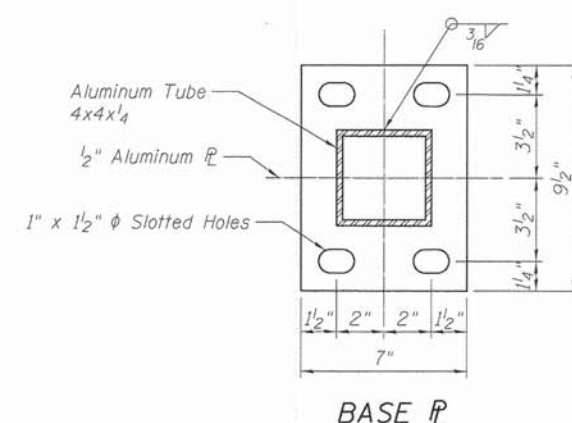
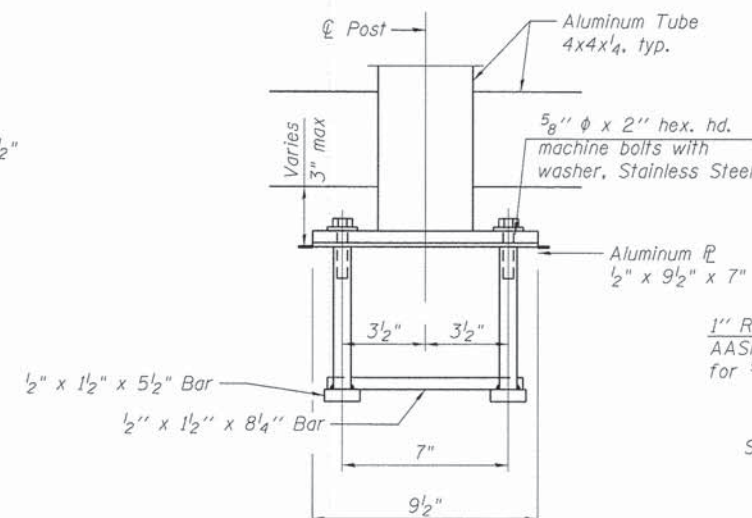
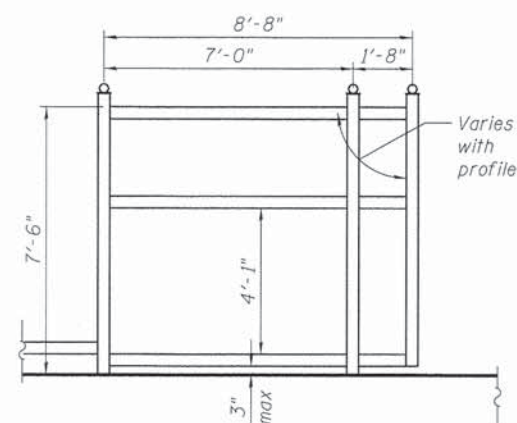
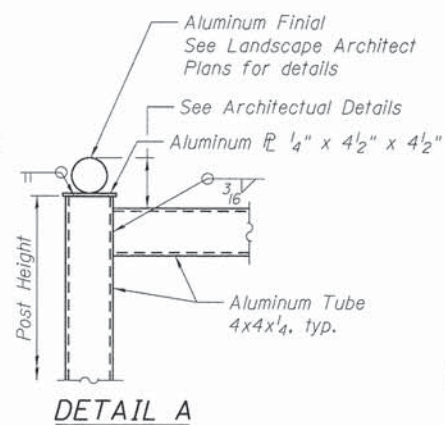
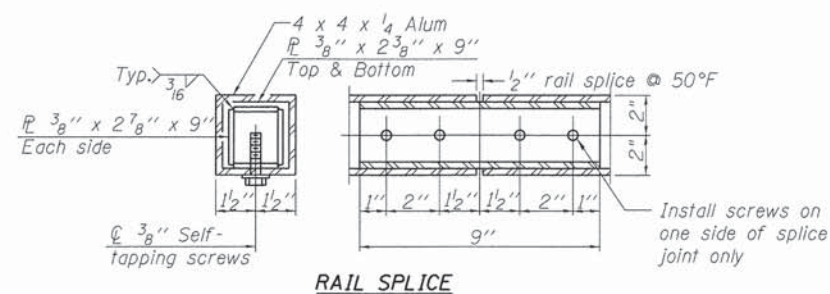
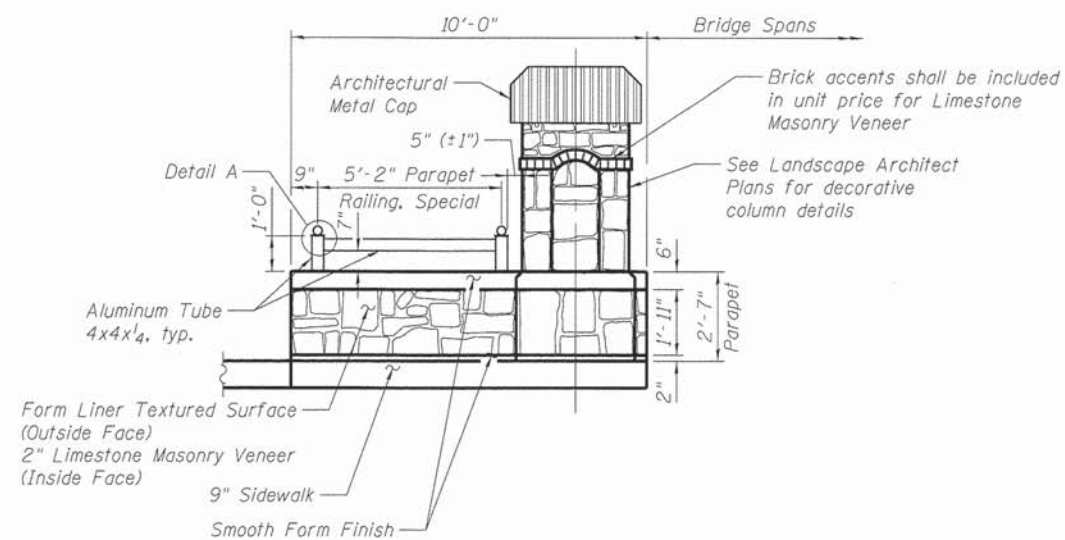
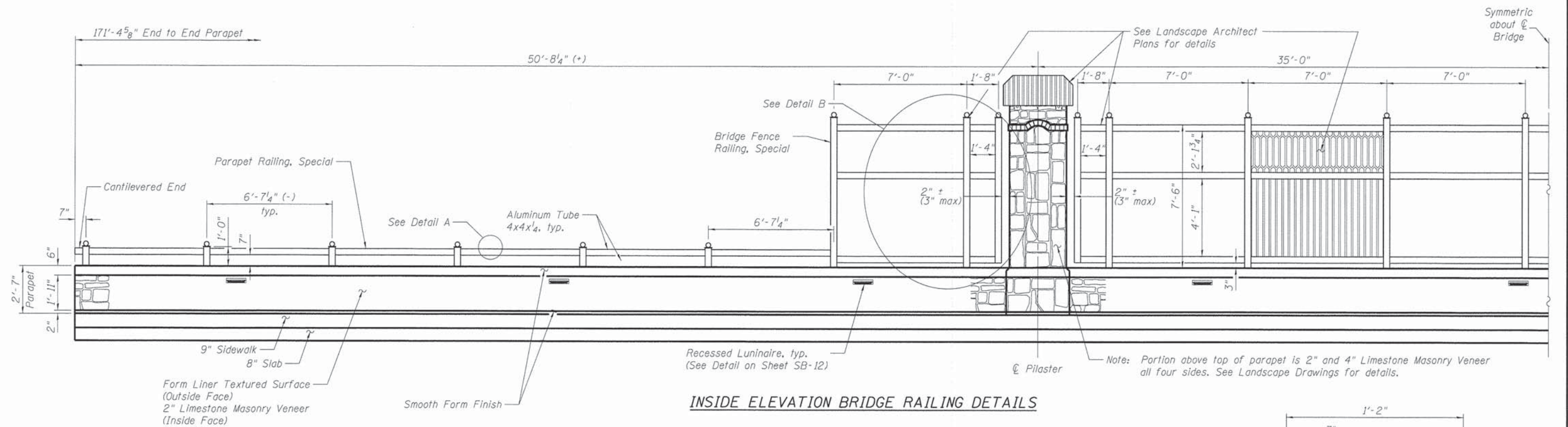
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For $\varnothing$ (E) bar details, see sheet SB-12 and SB-13.
The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet SB-04.
For additional parapet details, see sheet SB-11.



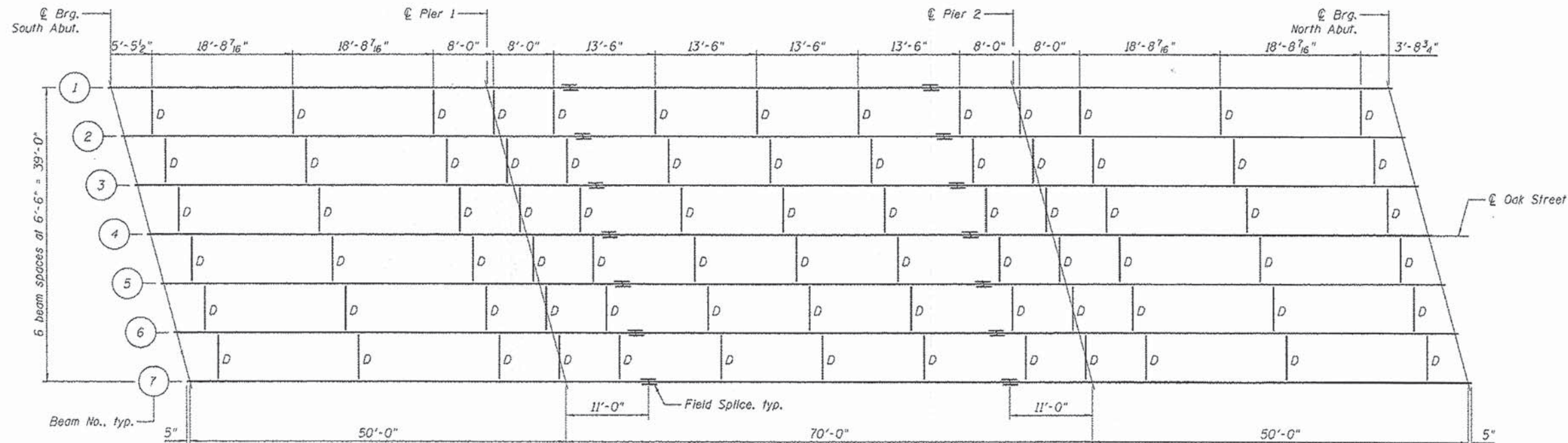
TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$a_{10}(E)$	108	#5	23'- 11"	————
$a_{11}(E)$	34	#4	32'- 2"	————
$a_{12}(E)$	62	#5	31'- 9"	————
$a_{13}(E)$	44	#6	6'- 6"	————
$b_{10}(E)$	52	#4	29'- 8"	————
$b_{11}(E)$	144	#9	29'- 9"	————
$b_{12}(E)$	96	#5	9'- 8"	————
$b_{13}(E)$	4	#4	19'- 8"	————
$c_{10}(E)$	44	#5	2'- 4"	————
$c_{11}(E)$	44	#5	6'- 4"	————
$d_{10}(E)$	32	#5	4'- 4"	————
$d_{11}(E)$	32	#5	5'- 3"	————
$d_{12}(E)$	16	#4	2'- 4"	————
$d_{13}(E)$	40	#5	7'- 11"	————
$d_{14}(E)$	64	#6	5'- 0"	————
$e_{10}(E)$	24	#4	6'- 0"	————
$s_{10}(E)$	32	#4	4'- 6"	————
$s_{11}(E)$	16	#4	10'- 1"	————
$f_{10}(E)$	128	#4	10'- 0"	————
$w_{10}(E)$	80	#5	31'- 9"	————
Concrete Superstructure			Cu. Yd.	119.1
Concrete Structures			Cu. Yd.	19.8
Bridge Deck Grooving			Sq. Yd.	200
Protective Coat			Sq. Yd.	249
Reinforcement Bars, Epoxy			Pound	27,880
Bar Splicers			Each	44





<i>Item</i>	<i>Unit</i>	<i>Quantity</i>
<i>Form Liner Textured Surface</i>	<i>Sq. Ft.</i>	<i>1,036</i>
<i>Limestone Masonry Veneer</i>	<i>Sq. Ft.</i>	<i>1,274</i>
<i>Staining Concrete Structures</i>	<i>Sq. Ft.</i>	<i>1,036</i>
<i>Bridge Fence Railing (Special)</i>	<i>Foot</i>	<i>168</i>
<i>Parapet Railing, Special</i>	<i>Foot</i>	<i>182</i>
<i>Architectural Cap, Metal</i>	<i>Each</i>	<i>4</i>
<i>Luminaire, LED, Recessed Mount, 11.2 Watt</i>	<i>Each</i>	<i>20</i>



FRAMING PLAN

All structural steel for plate girders and splice plate is AASHTO M270, Grade 50 (NTR)

INTERIOR GIRDER MOMENT TABLE

		0.4 Sp. 1 or 0.6 Sp. 3	Pier	0.5 Sp. 2
I_s	(in ⁴)	3,134	3,134	3,134
$I_c(n)$	(in ⁴)	9,300	---	9,300
$I_c(3n)$	(in ⁴)	6,581	---	6,581
$I_c(cr)$	(in ⁴)	---	4,527	---
S_s	(in ³)	313	313	313
$S_c(n)$	(in ³)	479	---	479
$S_c(3n)$	(in ³)	427	---	427
$S_c(cr)$	(in ³)	---	371	---
DC1	(k/ft.)	0.84	0.84	0.84
M_{DC1}	(k)	125	316	197
DC2	(k/ft.)	0.60	0.60	0.60
M_{DC2}	(k)	97	207	161
DW	(k/ft.)	0.33	0.33	0.33
M_{DW}	(k)	53	112	87
M_{LL+IM}	(k)	450	346	570
M_u (Strength I)	(k)	1,143	1,426	1,575
ϕF_n	(k)	2,108	1,818	2,108
f_s DC1	(k.s.i.)	4.8	12.1	7.5
f_s DC2	(k.s.i.)	2.7	6.7	4.5
f_s DW	(k.s.i.)	1.5	3.6	2.4
f_s (LL+IM)	(k.s.i.)	11.3	11.2	14.3
f_s (Service II)	(k.s.i.)	23.6	36.9	33.1
0.95R _n F _y	(k.s.i.)	47.5	47.5	47.5
f_s (Total)(Strength I)	(k.s.i.)	31.3	48.5	43.7
ϕF_n	(k.s.i.)	50.0	50.0	50.0
V _f	(k)	10.8	31.1	11.2

Beam No.	CL Brg. S. Abut.	CL Pier 1	Splice 1	Splice 2	CL Pier 2	CL Brg. N. Abut.
1	699.10	702.25	702.34	702.75	702.84	700.52
2	699.26	702.34	702.41	702.75	702.82	700.43
3	699.46	702.47	702.53	702.79	702.85	700.39
4	699.66	702.59	702.64	702.83	702.87	700.34
5	699.72	702.58	702.61	702.73	702.76	700.15
6	699.78	702.57	702.58	702.63	702.65	699.97
7	699.88	702.60	702.60	702.58	702.57	699.82

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).

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_{LL+IM} : Un-factored live load moment plus dynamic load allowance (Impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).

$1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{LL+IM}$

ϕF_n : Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

INTERIOR GIRDER REACTION TABLE

	Abut.	Pier
R DC1	(k)	14.6
R DC2	(k)	10.9
R DW	(k)	5.9
R LL+IM	(k)	69
R Total	(k)	100.4

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).

M_{DC1} / S_{sc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).

$M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).

$M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.

f_s (LL+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).

$M_{LL+IM} / S_c(n)$

f_s (Service II): Sum of stresses as computed below (ksi).

$f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s (LL+IM)$

0.95R_nF_y: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).

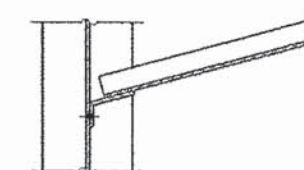
$1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_s (LL+IM)$

ϕF_n : Non-compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

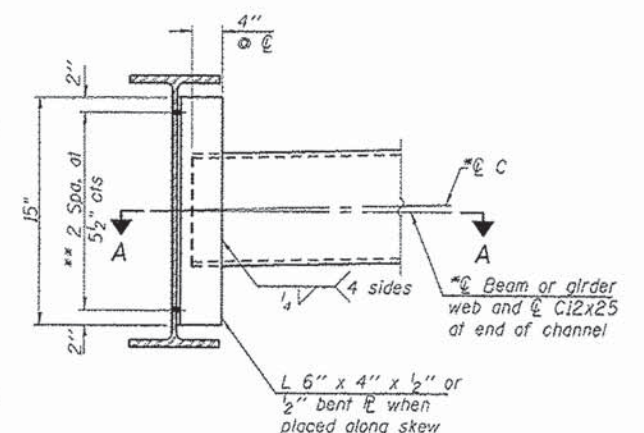
V_f: Maximum factored shear range in span computed according to Article 6.10.10.

Notes:

- Load carrying components designated "NTR" shall conform to the Impact Testing Requirements, Zone 2.



SECTION A-A



INTERIOR DIAPHRAGM, D

Note:
Two hardened washers required for each set of oversized holes.
Alternate channels C12x30 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
The alternate, if utilized, shall be provided at no additional cost to the Department.
3/4" ϕ HS bolts, 1/2" ϕ holes

COMPANY NAME: HIRGreen.com
PROJECT CONTACT: HIRGreen.com
DATE PLOTTED: 1/29/2015 3:36:05 PM
FILE NAME: 022-6404-00-01-Frame-Revised.dgn
PLOT DEVICE: pdf24t
PEN TABLE: standard-trans.tbl

HIRGreen.com
12000 Professional Design Firm
#184-001322

USER NAME: v.wood
DESIGNED: JMW
CHECKED: ROG
DRAWN: WJH
PLOT DATE: 1/29/2015

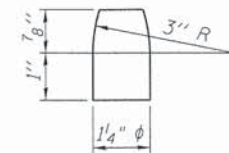
DESIGNED: JMW
CHECKED: ROG
DRAWN: WJH
PLOT DATE: 1/29/2015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL GIRDER FRAMING PLAN
STRUCTURE NO. 022-6404

SHEET NO. SB-17 OF SB-29 SHEETS

F.A.U. RTCL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	108
CONTRACT NO. 61811				
ILLINOIS FED. AID PROJECT BRM-9003(699)				

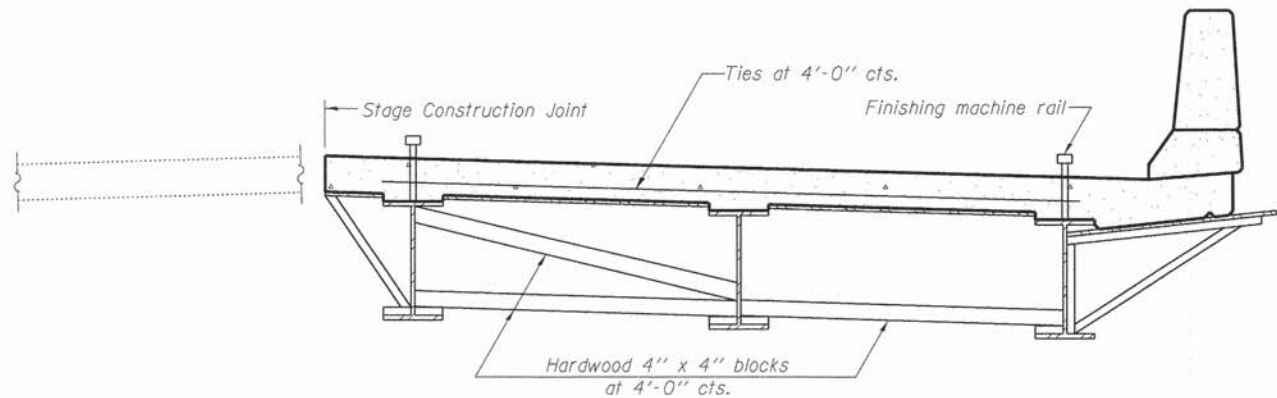


When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.

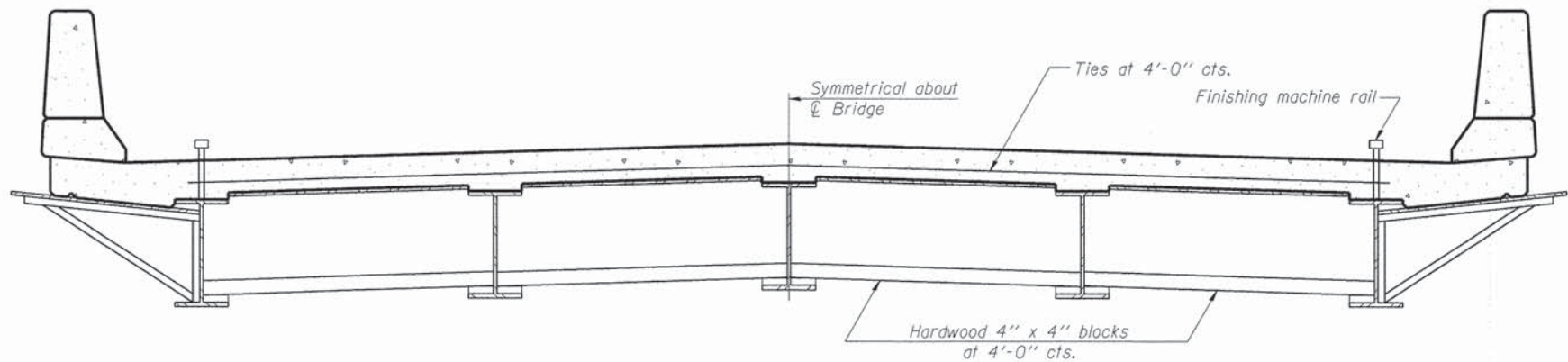
The finishing machine rails shall be placed on the top flange of the exterior beams.

The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.

For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.



**FORM BRACES FOR
STAGE CONSTRUCTION**



**FORM BRACES FOR
STANDARD CONSTRUCTION**

COMPANY NAME: HR GREEN
PROJECT CONTACT: T. SCOTT GREEN, P.E.
CLIENT: VILLAGE OF HINDSDALE
DATE PLOTTED: 12/15/2014 15:57 PM
FILE NAME: 032 STR SB.CTB-01.dgn
PLOT DRIVER: pdfcut
PEN TABLE: standard-trans.tbl

SB-1

7-1-10



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#184-001322

USER NAME = whood	DESIGNED - JMW	REVISED -
	CHECKED - RDG	REVISED -
PLOT SCALE =	DRAWN - WJH	REVISED -
PLOT DATE = 12/15/2014	CHECKED - 12/15/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

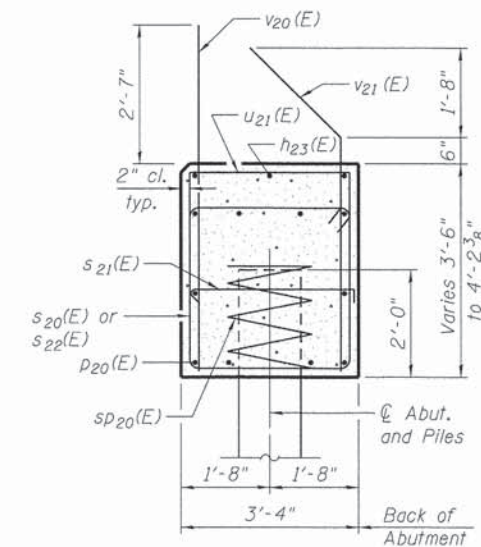
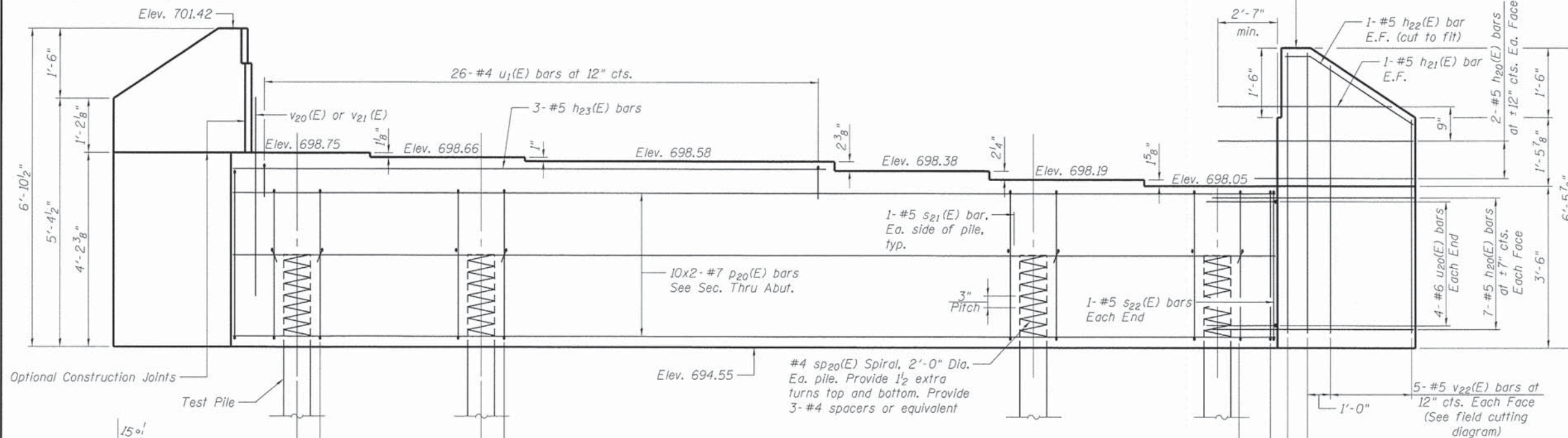
**CANTILEVER FORMING BRACKETS FOR SUPERSTRUCTURES WITH
W27 BEAMS AND SMALLER**

STRUCTURE NO. 022-6404

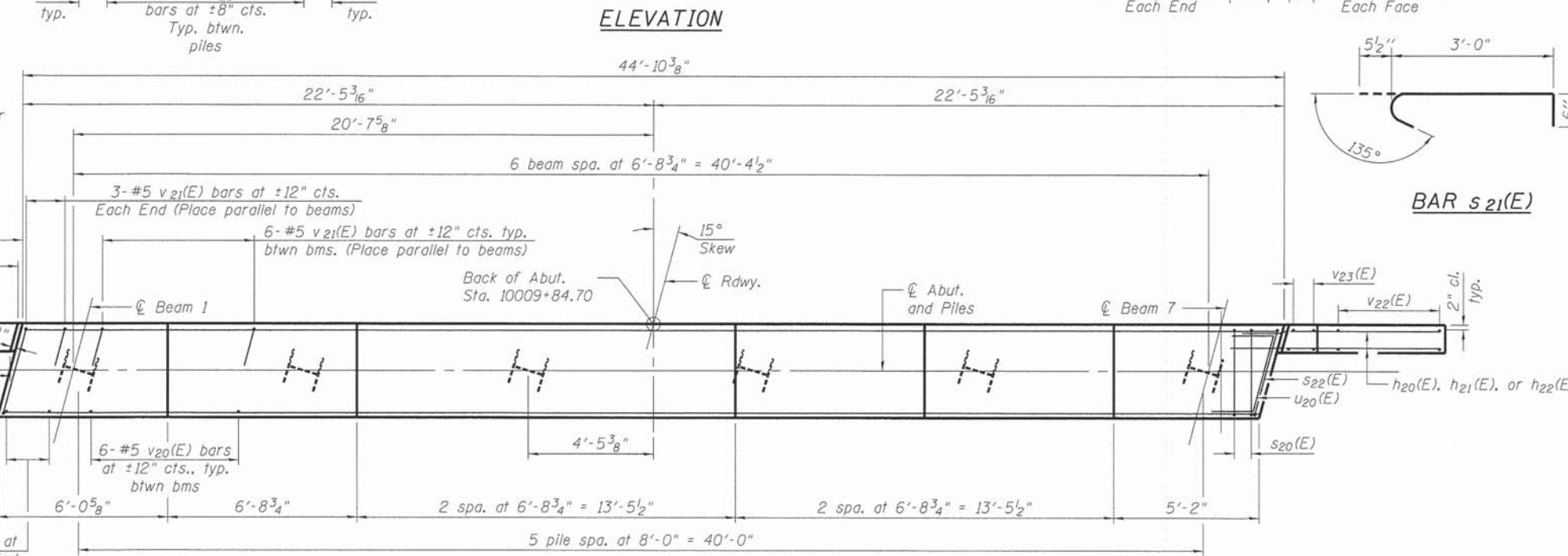
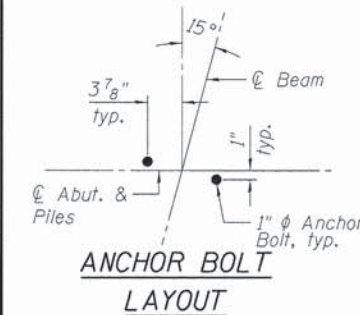
SHEET NO. SB-19 OF SB-29 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	110
CONTRACT NO. 61B11				
ILLINOIS FED. AID PROJECT BRM-9003(699)				

Notes:
Pour steps monolithically with cap.



SECTION THRU ABUT.
Dimensions at right angles to abutment.



BAR s21(E)

PILE DATA

Type: Steel HP 14x73
Nominal Required Bearing: 259k
Factored Resistance Available: 143k
Est. Length: 37'
No. Production Piles: 5
No. Test Piles: 1

Piles shall be driven through 18" diameter precored holes extending to elevation 680.00 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.

MINIMUM BAR LAP

#7 bar = 5'-2"

BAR v21(E) & h22(E)

BAR s20(E) & s22(E)

BAR u21(E)

BAR u20(E)

FIELD CUTTING DIAGRAM

Order v22(E) full length. Cut as shown and use remainder of bars in opposite face.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20 (E)	36	#5	8'-5"	—
h21 (E)	4	#5	6'-1"	—
h22 (E)	4	#5	5'-3"	—
h23 (E)	3	#5	25'-4"	—
p20 (E)	20	#7	24'-10"	—
s20 (E)	56	#5	13'-3"	□
s21 (E)	12	#5	4'-0"	—
s22 (E)	2	#5	13'-5"	□
sp20 (E)	6	#4	2'-0"	—
u20 (E)	8	#6	10'-9"	—
u21 (E)	26	#4	6'-2"	—
v20 (E)	42	#5	5'-11"	—
v21 (E)	42	#5	6'-2"	—
v22 (E)	10	#5	10'-5"	—
v23 (E)	8	#5	6'-3"	—
Concrete Structures			Cu. Yd.	24.3
Reinforcement Bars, Epoxy Coated			Pound	3,240
Furnishing Steel Piles HP14x73			Foot	185
Test Pile Steel HP14x73			Each	1
Driving Piles			Foot	185

* Length is height of spiral.

For details of piles see sheet SB-23

COMPANY NAME: HR GREEN
PROJECT CONTACT: T. SCOTT GREECH, P.E.
CLIENT: VILLAGE OF HINDSBOROUGH
DATE PLOTTED: 12/15/2014 15:50:00 PM
FILE NAME: 032-518-SB-Abut.tbl
PLOT DRIVER: pdfplot
PEN TABLE: standard-trans.tbl



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#184-001322

USER NAME = whood	DESIGNED = JMW	REVISED =
PLOT SCALE =	CHECKED = RGD	REVISED =
PLOT DATE = 12/15/2014	DRAWN = WJH	REVISED =
	CHECKED = 12/15/14	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

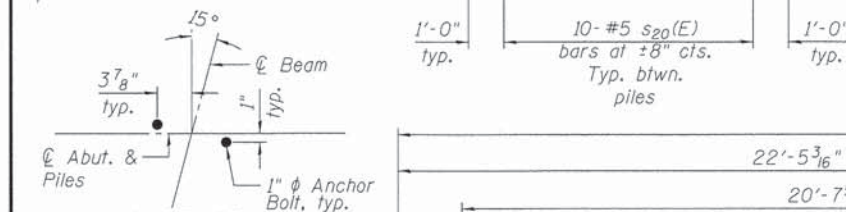
NORTH ABUTMENT
STRUCTURE NO. 022-6404

SHEET NO. SB-20 OF SB-29 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157
CONTRACT NO. 61B11			111
ILLINOIS FED. AID PROJECT BRM-9003(699)			

Four steps monolithically with cap.

1-#5 $h_{25}(E)$ bar, Each Face
Elev. 700.61
3-#5 $h_{24}(E)$ bars at $\pm 9"$ cts., Each Face



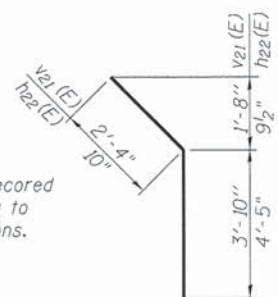
See Retaining
Wall Plans

*Felt Paper and
Bond Breaker
at cold joint*

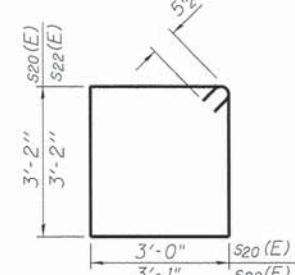
Type: Steel HP 14x73
Nominal Required Bearing: 231k
Factored Resistance Available: 115k
Est. Length: 36'
No. Production Piles: 5
No. Test Piles: 1

Piles shall be driven through 18" diameter precored holes extending to elevation 680.00 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.

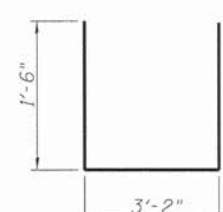
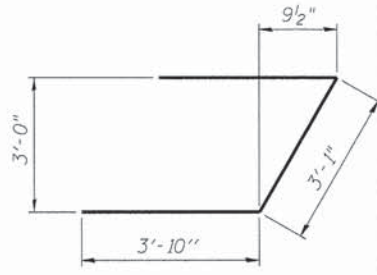
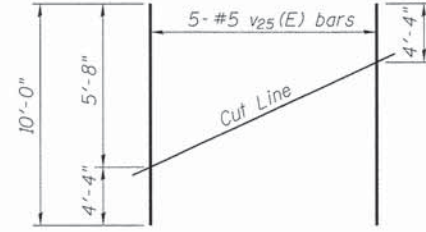
#5 bar = 3'-3"
#7 bar = 5'-2"



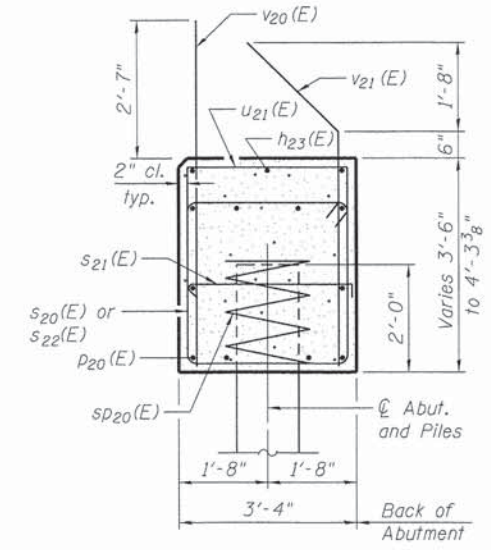
BAR $v_{21}(E)$ & $h_{22}(E)$



BAR $s_{20}(E)$ & $s_{22}(E)$


$$BAR \ u_{21}(E)$$
 $BAR \ u_{20}(E)$ 

Order $v_{25}(E)$ full length. Cut as shown and use remainder of bars in opposite face.



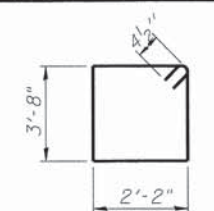
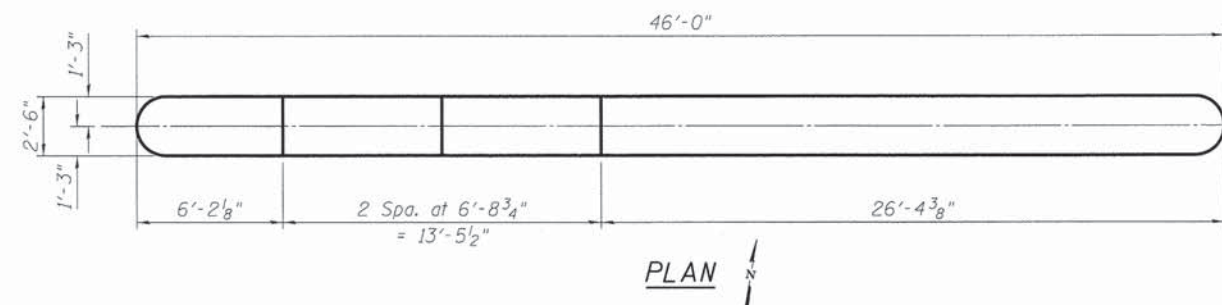
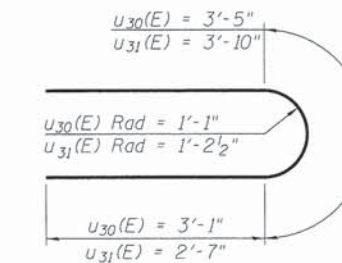
Dimensions at right angles to abutment.

Bar	No.	Size	Length	Shape
H ₂₀ (E)	18	#5	8'- 5"	_____
H ₂₁ (E)	2	#5	6'- 1"	_____
H ₂₂ (E)	2	#5	5'- 3"	_____
H ₂₃ (E)	3	#5	25'- 4"	_____
H ₂₄ (E)	22	#5	7'- 8"	_____
H ₂₅ (E)	2	#5	4'- 8"	_____
D ₂₀ (E)	20	#7	24'- 10"	_____
S ₂₀ (E)	56	#5	13'- 3"	□
S ₂₁ (E)	12	#5	4'- 0"	┐
S ₂₂ (E)	2	#5	13'- 5"	□
* S _{D20} (E)	6	#4	2'- 0"	W
U ₂₀ (E)	8	#6	10'- 9"	┐
U ₂₁ (E)	26	#4	6'- 2"	┐
V ₂₀ (E)	42	#5	5'- 11"	_____
V ₂₁ (E)	42	#5	6'- 2"	_____
V ₂₄ (E)	4	#5	5'- 10"	_____
V ₂₅ (E)	5	#5	10'- 0"	_____
V ₂₆ (E)	12	#5	6'- 5"	_____
Structure Excavation			Cu. Yd.	30.5
Concrete Structures			Cu. Yd.	24.3
Reinforcement Bars, Epoxy Coated			Pound	3,240
Furnishing Steel Piles HP14x73			Foot	180
Test Pile Steel HP14x73			Each	1
Driving Piles			Foot	180

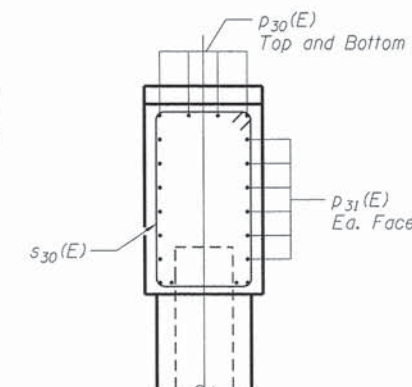
* Length is height of spiral.
For details of piles see sheet SB-23

Type: Steel HP 14x73
Nominal Required Bearing: 531k
Factored Resistance Available: 292k
Est. Length: 3 at 59', 4 at 83'
No. Production Piles: 6
No. Test Piles: 1

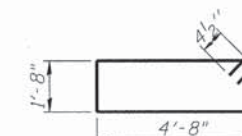
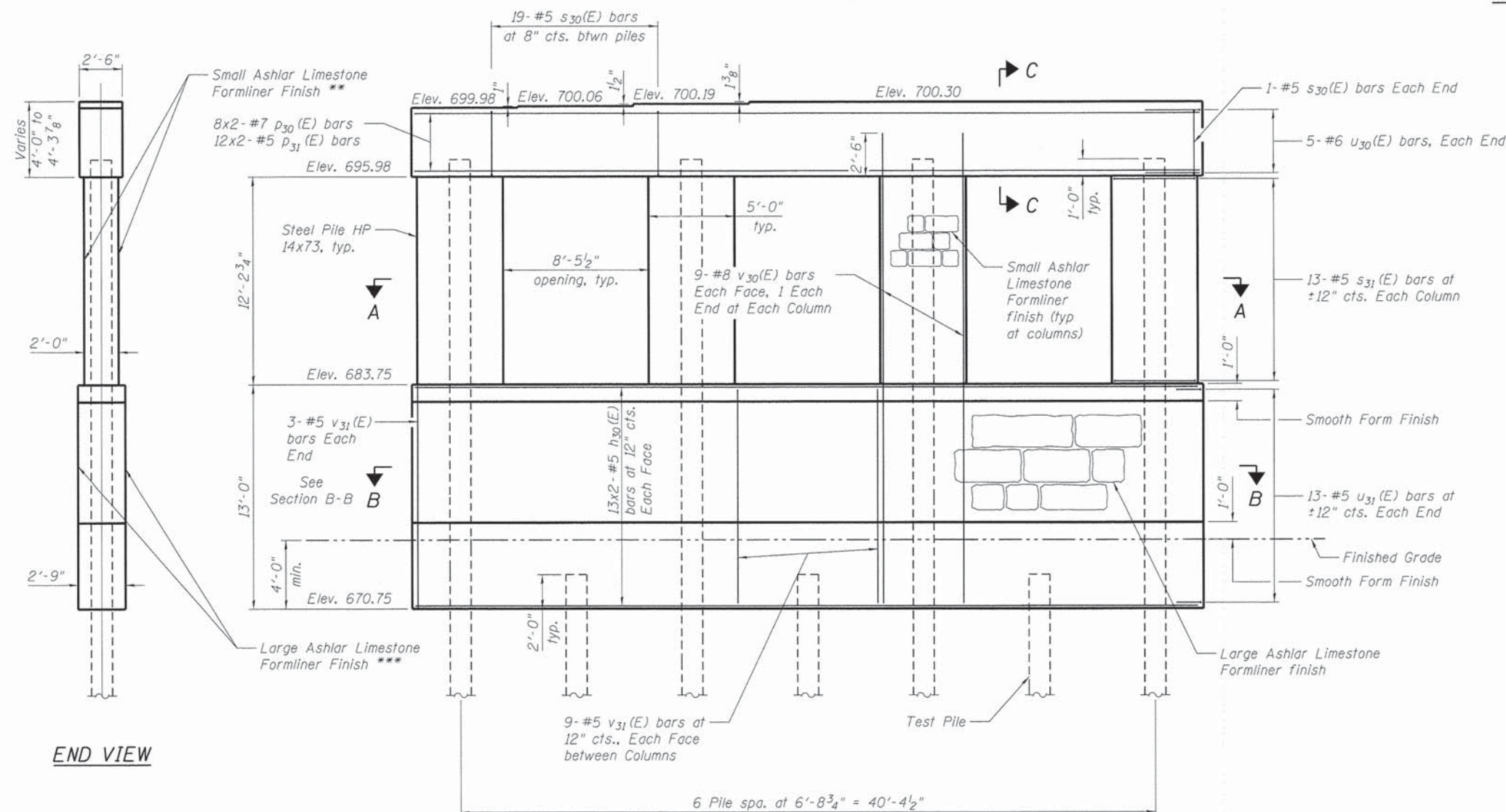
Piles shall be driven through 18" diameter precored holes extending to elevation 660.00 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.

 $BAR_{S30}(E)$ 

BARS $u_{30}(E)$ & $u_{31}(E)$



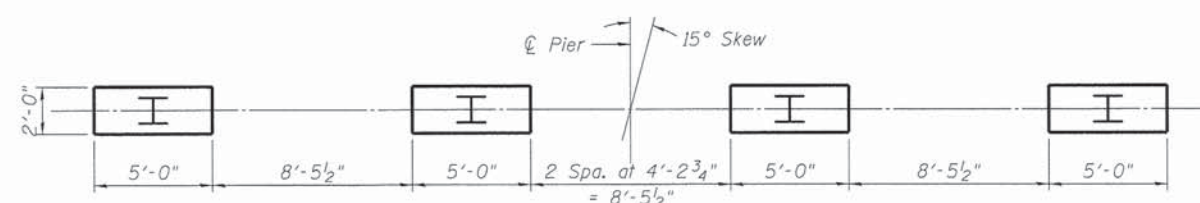
SECTION C-C


$$BAR \ s_{31}(E)$$


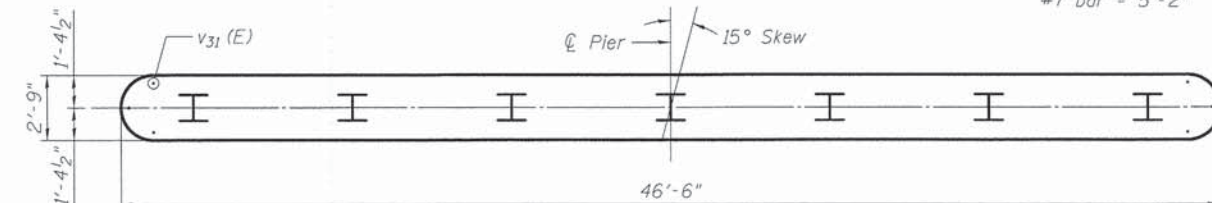
END VIEW

PIER 1 ELEVATION

(looking North)



SECTION A-A



SECTION B-B

<i>Bar</i>	<i>No.</i>	<i>Size</i>	<i>Length</i>	<i>Shape</i>
$h_{30}(E)$	52	#5	24'- 8"	—
$p_{30}(E)$	16	#7	25'- 5"	—
$p_{31}(E)$	24	#5	23'- 5"	—
$s_{30}(E)$	59	#5	12'- 5"	□
$s_{31}(E)$	52	#5	13'- 5"	□
$u_{30}(E)$	10	#6	9'- 7"	U
$u_{31}(E)$	26	#5	9'- 0"	U
$v_{30}(E)$	80	#8	27'- 7"	—
$v_{31}(E)$	60	#5	12'- 8"	—
Structure Excavation			Cu. Yd.	148.5
Concrete Structures			Cu. Yd.	96.7
Form Liner Textured Surface			Sq. Ft.	1,550
Reinforcement Bars, Epoxy Coated			Pound	11,320
Furnishing Steel Piles HP14x73			Foot	450
Test Pile HP14x73			Each	1
Driving			Foot	450
Staining Concrete Structures			Sq. Ft.	1,550

For details of piles see sheet SB-23

MIN. BAR LAP

#5 bar = 3'-3"
#7 bar = 5'-2"

COMPANY NAME: HR GREEN
PROJECT CONTACT: T. SCOTT CREECH, P.E.
CLIENT: VILLAGE OF HINDSDALE
DATE PLOTTED: 12/15/2014 1:5:05 PM
FILE NAME: 032_STR_SB_Pler-1.dgn
PLOT DRIVER: pdf.plt
PLOT TABLE: standard-trans.tbl



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#184-001322

USER NAME = whood	DESIGNED - JMW	REVISED -
	CHECKED - RDG	REVISED -
PLOT SCALE =	DRAWN - WJH	REVISED -
PLOT DATE = 12/15/2014	CHECKED - 12/15/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1 DETAILS
STRUCTURE NO. 022-6404

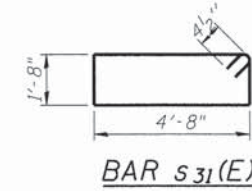
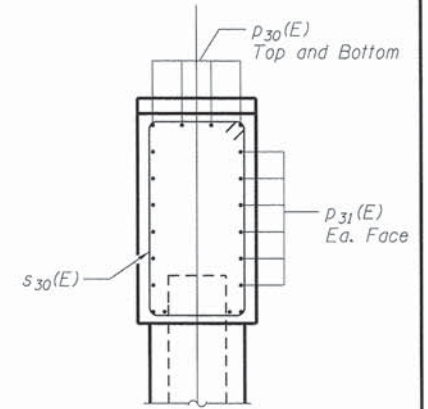
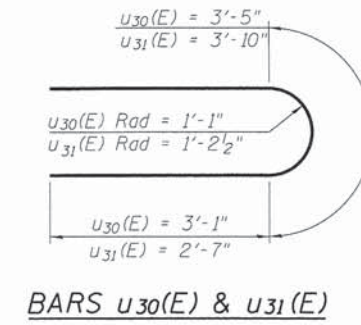
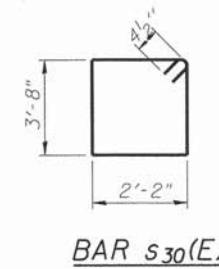
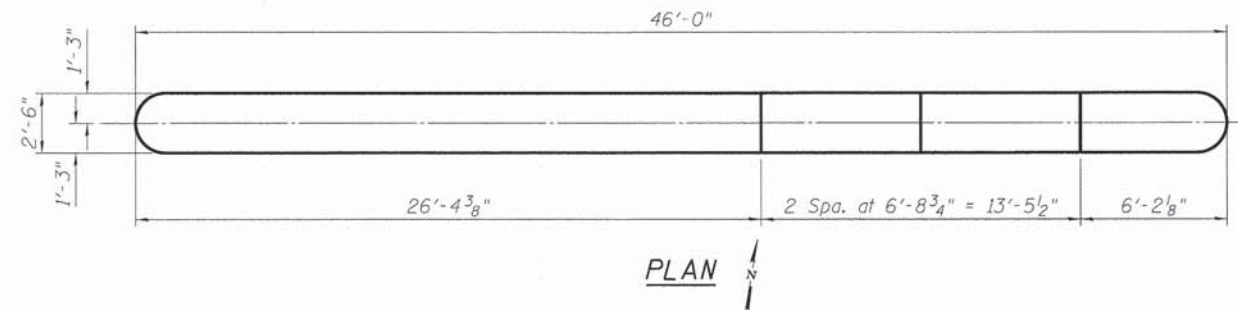
SHEET NO. SB-22 OF SB-29 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE NO
2999	10-00089-00-BR	DUPAGE	157	11
		CONTRACT NO. 61B11		
		ILLINOIS FED. AID PROJECT	RRM-9003(699)	

PILE DATA

Type: Steel HP 14x73
 Nominal Required Bearing: 412k
 Factored Resistance Available: 226k
 Est. Length: 3 at 52', 4 at 76'
 No. Production Piles: 6
 No. Test Piles: 1

Piles shall be driven through 18" diameter precored holes extending to elevation 660.00 according to Article 512.09(c) of the Standard Specifications.
 Cost included in driving piles.

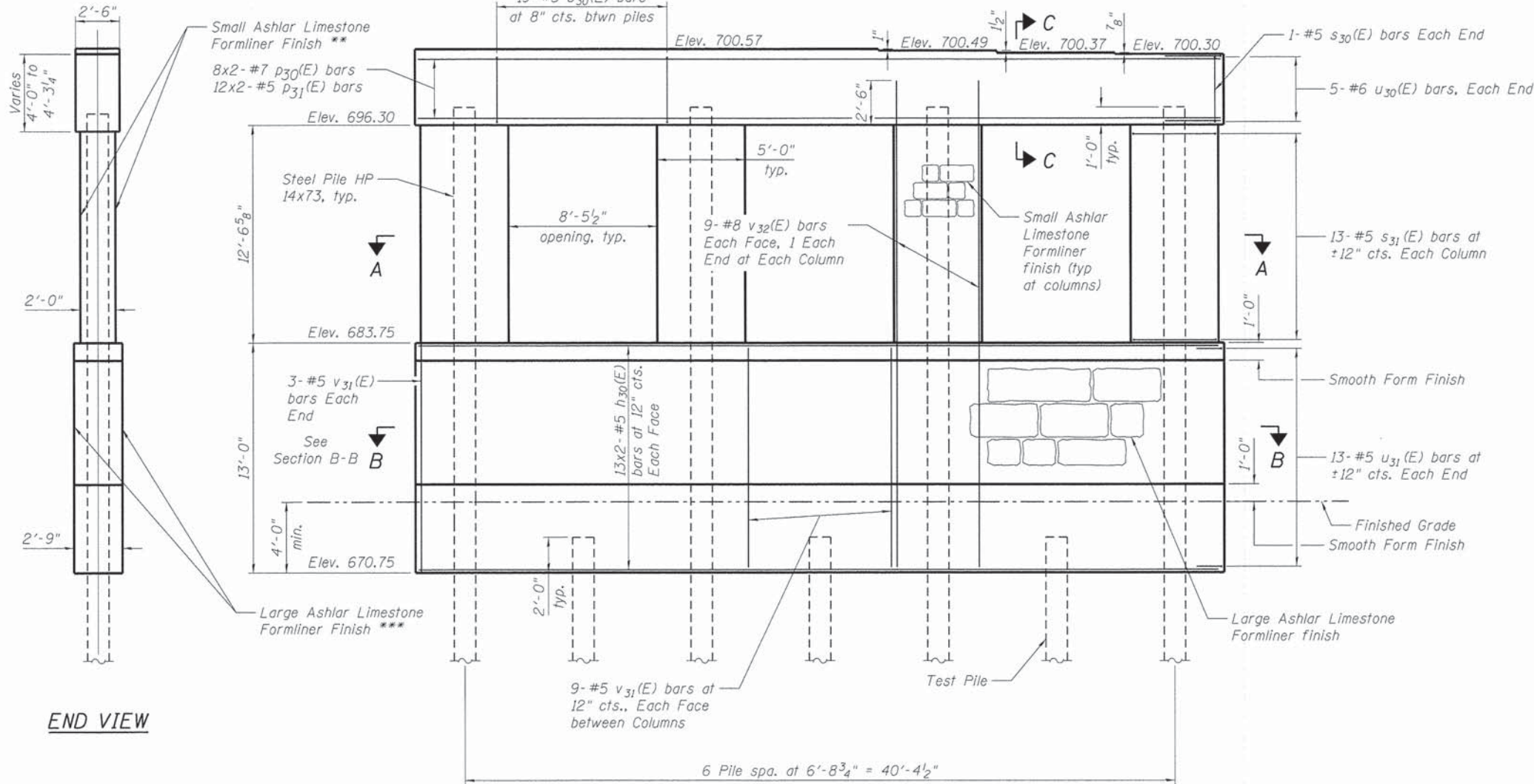


SECTION C-C

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
h30(E)	52	#5	24'-8"	—
p30(E)	16	#7	25'-5"	—
p31(E)	24	#5	23'-5"	—
s30(E)	59	#5	12'-5"	□
s31(E)	52	#5	13'-5"	□
u30(E)	10	#6	9'-7"	U
u31(E)	26	#5	9'-0"	U
v31(E)	60	#5	12'-8"	—
v32(E)	80	#8	27'-11"	—
Structure Excavation				Cu. Yd. 148.5
Concrete Structures				Cu. Yd. 97.0
Form Liner Textured Surface				Sq. Ft. 1,550
Reinforcement Bars, Epoxy Coated				Pound 11,390
Furnishing Steel Piles HP14x73				Foot 408
Test Pile HP14x73				Each 1
Driving				Foot 408
Staining Concrete Structures				Sq. Ft. 1,550

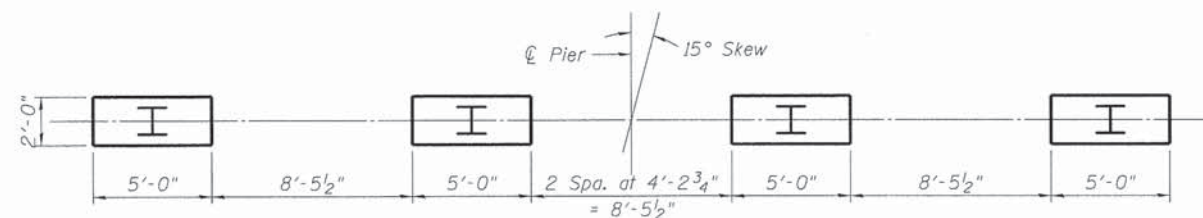
For details of piles see sheet SB-23



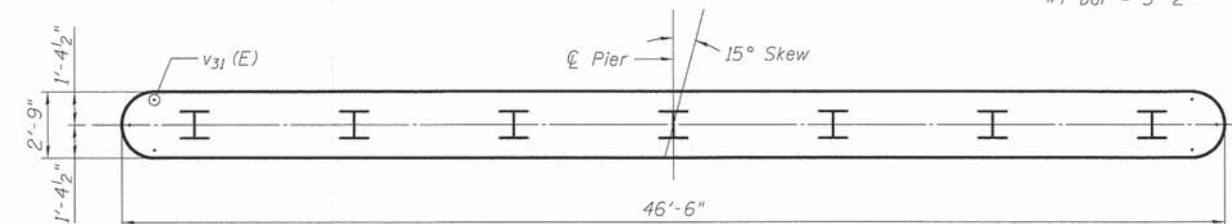
END VIEW

** Ashlar Limestone Small (4"-6" x 10"-18") pattern, 1/2" relief
 *** Ashlar Limestone Large (6"-8" x 18"-30") pattern, 1" relief

PIER 2 ELEVATION
 (looking North)



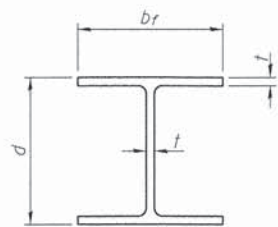
SECTION A-A



SECTION B-B

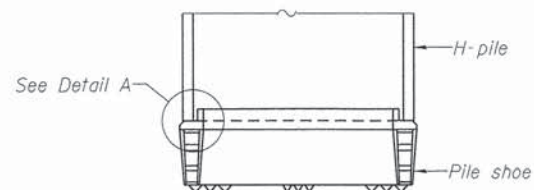
MIN. BAR LAP
 #5 bar = 3'-3"
 #7 bar = 5'-2"

COMPANY NAME: HR GREEN
 PROJECT CONTACT: T. SCOTT CREECH, P.E.
 CLIENT: VILLAGE OF HINDSDALE
 DATE PLOTTED: 12/15/2014 1:53:07 PM
 FILE NAME: 022-STR-SB-Pier-2.dgn
 PLOT DRIVER: pdfLett
 PEN TABLE: standard-trans.tbl

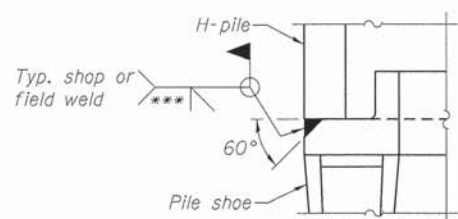


STEEL PILE TABLE

Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	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"	11/16"	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"

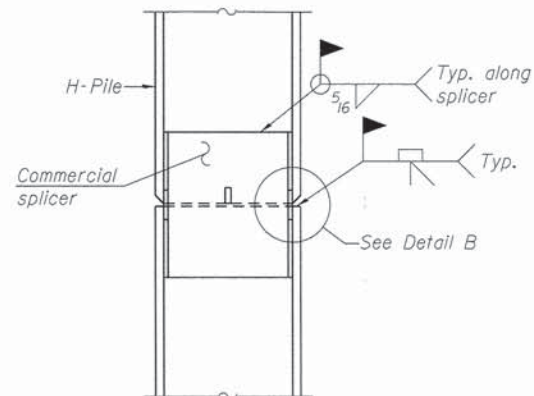


ELEVATION

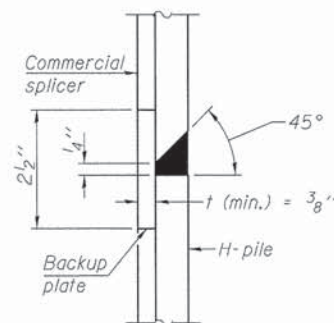


DETAIL A

H-PILE SHOE ATTACHMENT

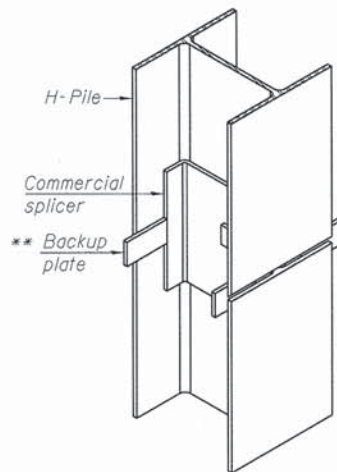


ELEVATION

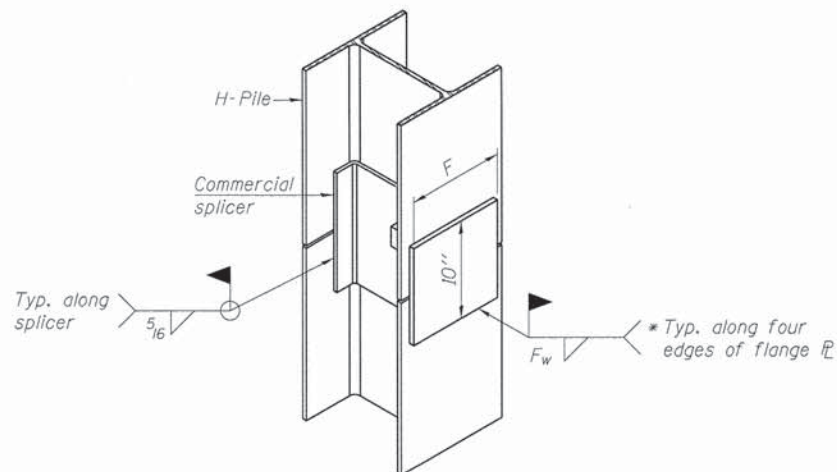


DETAIL "B"

WELDED COMMERCIAL SPLICE



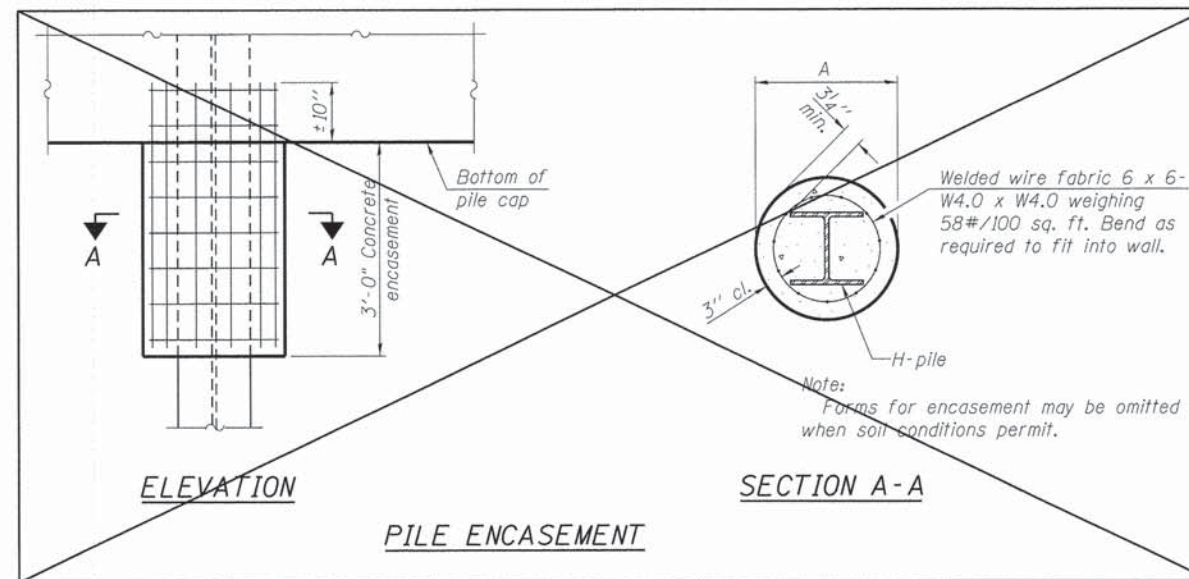
ISOMETRIC VIEW



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

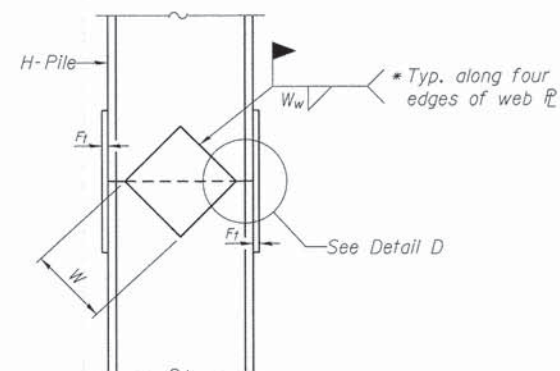
- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



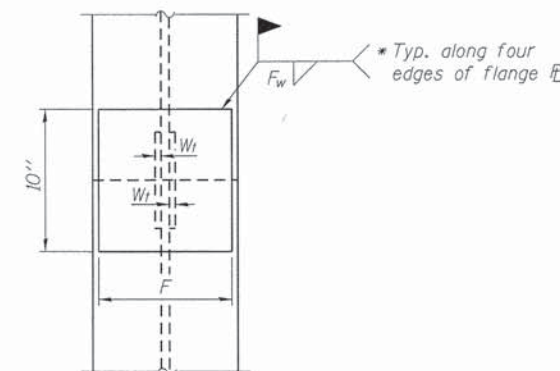
ELEVATION

SECTION A-A

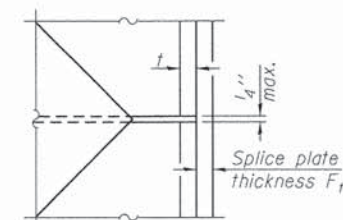
PILE ENCASEMENT



ELEVATION



END VIEW

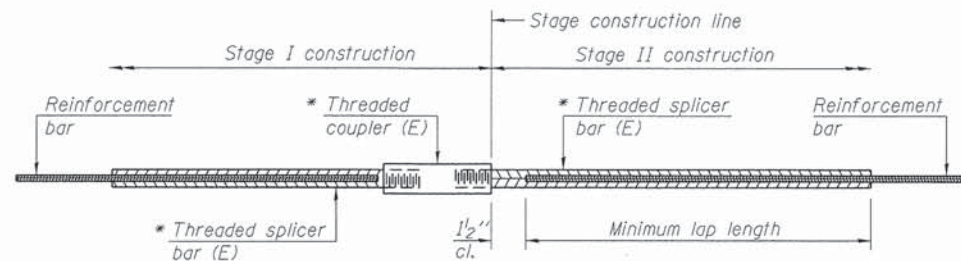


DETAIL D

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 8/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 8/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5 8/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 8/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5 8/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5 8/8"	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"

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



STANDARD BAR SPLICER ASSEMBLY

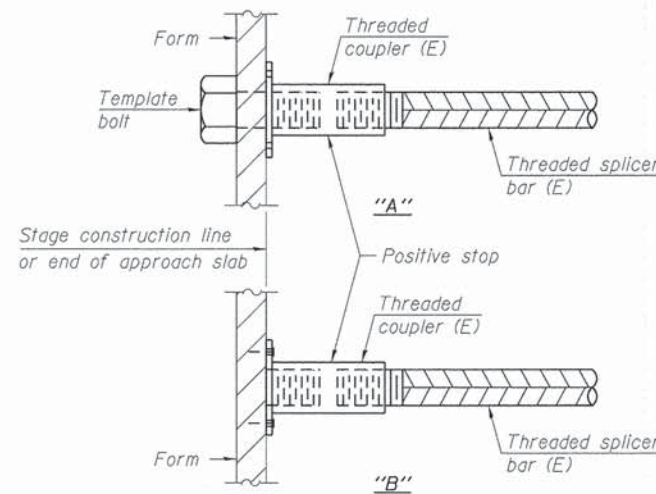
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

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

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

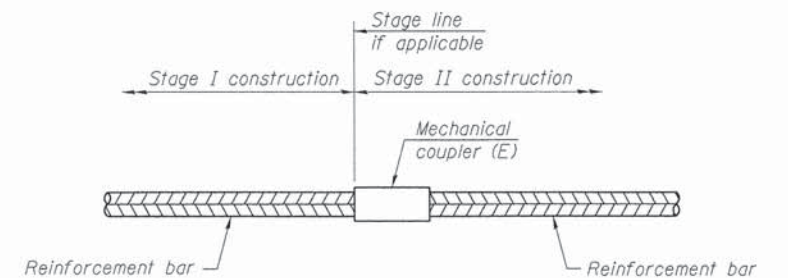
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



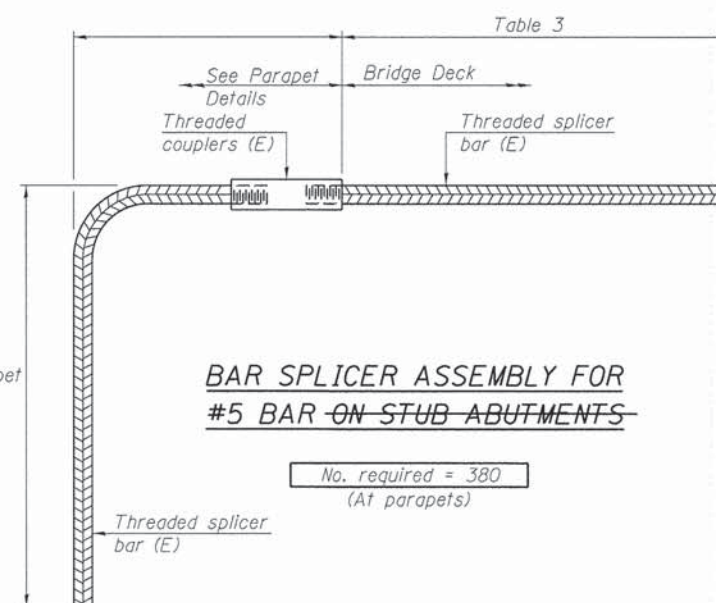
INSTALLATION AND SETTING METHODS

"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 STUB ABUTMENTS

NOTES

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

BSD-1

8-31-12

COMPANY NAME: HR GREEN
 PROJECT CONTACT: T. SCOTT CREECH, P.E.
 DATE PLOTTED: 12/16/2014 9:29:28 AM
 FILE NAME: 032 SFR SB Bar Splicer.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: standard-trans.tbl



USER NAME = dstencz	DESIGNED - JMW	REVISED -
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PLOT DATE = 12/16/2014	DRAWN - WJH	REVISED -
	CHECKED - 12/16/14	REVISED -

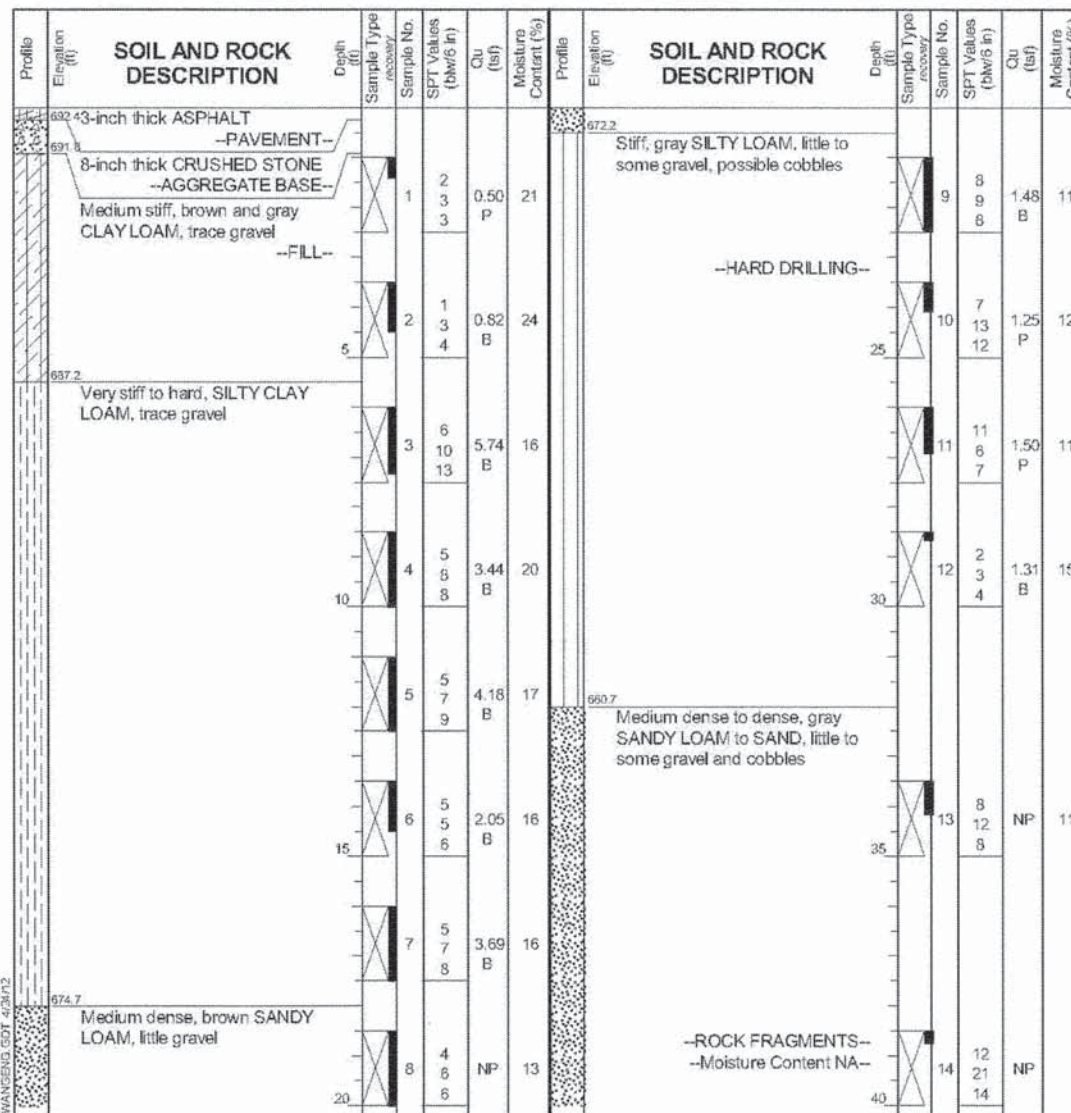
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 022-6404

SHEET NO. SB-25 OF SB-29 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61B11				
ILLINOIS FED. AID PROJECT BRM-9003(699)				

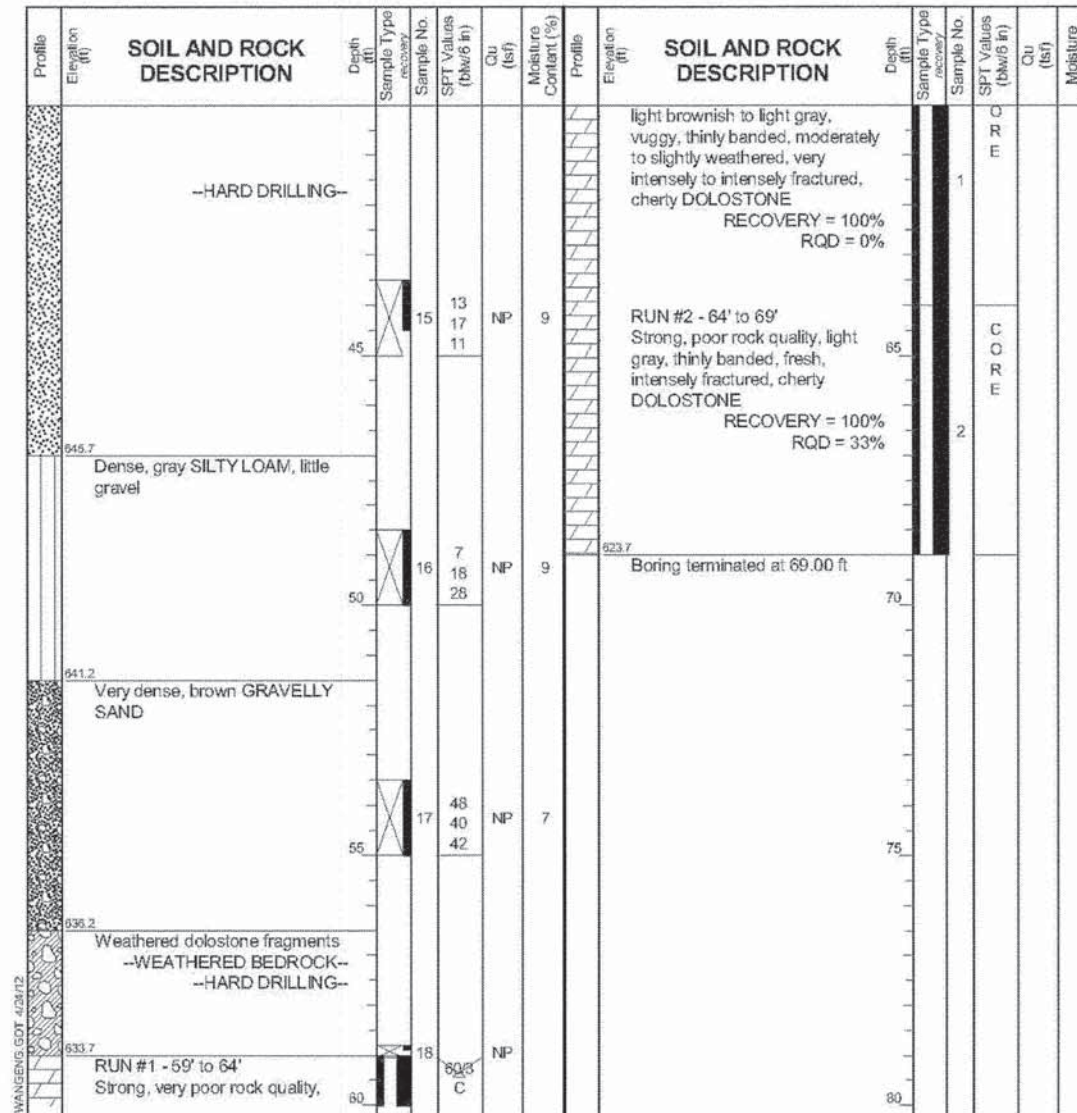
Wang Engineering logo and contact info. Boring Log BB-01. Client: Clark Dietz, Inc. Project: Oak Street Bridge Replacement. Location: Hinsdale, DuPage Co. IL. Datum: NAV88. Elevation: 692.70 ft. North: 1871857.75 ft. East: 1096944.74 ft. Station: 10008+16.0. Offset: 7.8 RT.



GENERAL NOTES: Begin Drilling 03-01-2012, Complete Drilling 03-01-2012. Drilling Contractor: Wang Testing Services. Driller: K&K. Logger: F. Bozza. Checked by: M. Snider. Drilling Method: 3.25 IDA HSA. Boring backfilled upon completion.

WATER LEVEL DATA: While Drilling: DRY. At Completion of Drilling: MUD. Time After Drilling: NA. Depth to Water: NA.

Wang Engineering logo and contact info. Boring Log BB-01. Client: Clark Dietz, Inc. Project: Oak Street Bridge Replacement. Location: Hinsdale, DuPage Co. IL. Datum: NAV88. Elevation: 692.70 ft. North: 1871857.75 ft. East: 1096944.74 ft. Station: 10008+16.0. Offset: 7.8 RT.



GENERAL NOTES: Begin Drilling 03-01-2012, Complete Drilling 03-01-2012. Drilling Contractor: Wang Testing Services. Driller: K&K. Logger: F. Bozza. Checked by: M. Snider. Drilling Method: 3.25 IDA HSA. Boring backfilled upon completion.

WATER LEVEL DATA: While Drilling: DRY. At Completion of Drilling: MUD. Time After Drilling: NA. Depth to Water: NA.

COMPANY NAME: HR GREEN
PROJECT CONTACT: T. SCOTT CREECH, P.E.
CLIENT: VILLAGE OF HINSDALE
DATE PLOTTED: 12/15/2014 10:14 PM
FILE NAME: 032 STR_SB_SBL01.dgn
PLOT DRIVER: pdt1pt
PEN TABLE: standard-trans.tbl

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

WEI Job No.: 373-19-01

Client Clark Dietz, Inc.

Project Oak Street Bridge Replacement

Location Hinsdale, DuPage Co., IL

Datum: NAV88
Elevation: 693.82 ft
North: 1871806.19 ft
East: 1096947.71 ft
Station: 10009+64.2
Offset: 16.8 RT

WANGJENG 3731901 GPU WANGJENG DOT 4/24/12

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)
	693.2 692.7	7-inch thick ASPHALT --PAVEMENT-- 5-inch thick CRUSHED STONE --AGGREGATE BASE-- Stiff, brown CLAY LOAM, trace gravel --FILL--			1	5 4 6	1.75 P	29		673.3	Very stiff to hard, gray SILTY LOAM, little to some gravel			9	3 7 10	1.50 P	13
			5		2	2 3 5	1.50 P	20				25		10	5 10 7	3.00 P	11
	689.3	Very stiff to hard, brown and gray SILTY CLAY, trace gravel			3	8 9 13	4.92 B	15						11	11 12 11	4.59 B	12
			10		4	8 8 12	4.35 B	16			-L _c = 20%, P _L = 13% --% Gravel = 17.2%-- --% Sand = 21.9%-- --% Silt = 46.4%-- --% Clay = 14.5%--	30		12	7 6 8	1.58 B	11
					5	6 8 10	3.28 B	17									
			15		6	4 8 10	2.95 B	17				35		13	5 7 8	4.35 B	15
	679.3	--HARD DRILLING-- Loose, brown GRAVELLY SAND			7	11 5 4	NA										
		--HARD DRILLING--	20		8	3 5 4	NP	19				40		14	5 7 8	2.13 B	14

GENERAL NOTES

Begin Drilling 03-05-2012 Complete Drilling 03-05-2012
 Drilling Contractor Wang Testing Services Drill Rig D-50 ATV
 Driller K&K Logger F. Bozsa Checked by M. Snider
 Drilling Method 3.25 IDA HSA Boring backfilled upon completion

WATER LEVEL DATA

While Drilling ▽ 18.00 ft
 At Completion of Drilling ▽ NA 30.00 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.

BORING LOG BB-4A

Page 2 of 2

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

WEI Job No.: 373-19-01

Client Clark Dietz, Inc.

Project Oak Street Bridge Replacement

Location Hinsdale, DuPage Co., IL

Datum: NAV88
Elevation: 693.82 ft
North: 1871806.19 ft
East: 1096947.71 ft
Station: 10009+64.2
Offset: 16.8 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
	651.8	Medium dense, gray SILTY LOAM, some gravel															
		-- $L_c = NP$, $P_c = NP$ -- --% Gravel = 10.6%-- --% Sand = 23.0%-- --% Silt = 59.6%-- --% Clay = 6.8%--	45		15	7 8 9	NP	11		629.8	RUN #1 - 64' to 74' Strong, poor rock quality, light gray and white, fresh, intensely fractured, occasionally vuggy, cherty DOLOSTONE RECOVERY = 97.5% RQD = 12.5%	65					
			50		16	8 13 12	NP	12				70					
	642.3	Dense to very dense, SANDY GRAVEL															
			55		17	42 29 14	NP	8		619.8	Boring terminated at 74.00 ft	75					
			60		18	23 22 50/2	NP	11				80					
GENERAL NOTES										WATER LEVEL DATA							
Begin Drilling 03-05-2012 Complete Drilling 03-05-2012										While Drilling 18.00 ft							
Drilling Contractor Wang Testing Services Drill Rig D-50 ATV										At Completion of Drilling 30.00 ft							
Driller K&K Logger F. Bozga Checked by M. Snider										Time After Drilling NA							
Drilling Method 3.25 IDA HSA: Boring backfilled upon completion										Depth to Water NA							
The stratification lines represent the approximate boundary between soil boxes; the actual transition may be gradual.																	

COMPANY NAME: HR GREEN
PROJECT CONTACT: T. SCOTT CREECH, P.E.
CLIENT: VILLAGE OF MINOSDALE
DATE PLOTTED: 12/15/2014 1:53:24 PM
FILE NAME: 032_STR_SB_SB02.dgn
PLOT DRIVER: pdf.plt
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HRGreen.com
Illinois Professional Design Firm
184-001322

USER NAME = whood	DESIGNED = JMW	REVISED =
	CHECKED = RDG	REVISED =
PLOT SCALE =	DRAWN = WJH	REVISED =
PLOT DATE = 12/15/2014	CHECKED = 12/15/14	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 022-6404

SHEET NO. SB-27 OF SB-29 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	118
		CONTRACT NO. 61811		
ILLINOIS FED. AID PROJECT BRM-9003(699)				

ILLINOIS	FED. AID PROJECT	BRM-9003(699)
----------	------------------	---------------

Datum: NAV88
Elevation: 684.50 ft
North: 1871694.08 ft
East: 1096927.74 ft
Station: 10008+53.0
Offset: 7.7 LT

Profile	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows in)	Qu (tsf)	Moisture Content (%)	Profile	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows in)	Qu (tsf)	Moisture Content (%)
	6-inch thick, brown SILTY CLAY LOAM	0		1	PUSH	1.00 P	18								
	--FILL-- Brown CLAY LOAM			2	PUSH	3.50 P	17								
	--FILL--			3	PUSH	3.00 P	17								
				4	PUSH	2.00 P	17								
				5	PUSH	2.00 P	15								
	Boring terminated at 10.00 ft	10													
		15													
		20													

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	04-17-2012	Complete Drilling	04-17-2012	While Drilling		DRY	
Drilling Contractor	Wang Testing Services		Drill Rig	Jack	At Completion of Drilling		DRY
Driller	N&C	Logger	N. Boddy	Checked by	M. Snider	Time After Drilling	NA
Drilling Method	Pneumatic Geoprobe 2" Continuous			Depth to Water		NA	
The stratification lines represent the approximate boundary							

Datum: NAV88
Elevation: 688.00 ft
North: 1871780.93 ft
East: 1096928.71 ft
Station: 10009+349.7
Offset: 3.2 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture
	686.0	Brown SANDY LOAM --FILL--	1	PUSH	NP	13											
			2	PUSH	3.00 P	14											
			3	PUSH	3.00 P	14											
			4	PUSH	4.50 P	16											
			5	PUSH	3.50 P	16											
	678.0	Boring terminated at 10.00 ft	10														
										GENERAL NOTES Begin Drilling 04-17-2012 Complete Drilling 04-17-2012 Drilling Contractor Wang Testing Services Drill Rig Jack Driller N.C. Logger N. Boddy Checked by M. Snider Drilling Method Pneumatic Geoprobe 2" Continuous							
										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							

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

BORING LOG HA-3A Bottom

WEI Job No.: 373-19-01

Client: Clark Dietz, Inc.
Project: Oak Street Bridge Replacement
Location: Hinsdale, DuPage Co., IL

Datum: NAV88
Elevation: 680.25 ft
North: 1571768.88 ft
East: 1096926.18 ft
Station: 10009+25.7
Offset: 4.3 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (as noted)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (as noted)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
	678.8	18-inch thick, brown SILTY CLAY LOAM	--FILL--		1	PUSH	1.50 P	15									
		Brown CLAY LOAM	--FILL--		2	PUSH	2.50 P	19									
				5	3	PUSH	4.00 P	15									
	674.3	Brown SAND			4	PUSH	NP	16									
	674.0	Brown SANDY LOAM															
	672.8	Brown and gray SILTY CLAY LOAM			5	PUSH	0.50 P	16									
	670.3	Boring terminated at 10.00 ft															

GENERAL NOTES								WATER LEVEL DATA										
Begin Drilling	04-17-2012	Complete Drilling	04-17-2012	While Drilling		DRY		At Completion of Drilling		DRY		Time After Drilling	NA		Depth to Water		NA	
Drilling Contractor	Wang Testing Services		Drill Rig	Jack														
Driller	N&C		Logger	N. Boddy		Checked by	M. Snider											
Drilling Method	Pneumatic Geoprobe 2" Continuous																	
The stratification lines represent the approximate boundary between soil boxes; the actual transition may be gradual.																		

WANGENG 3731901.GPJ WANGENG.GDT 4/28/12

COMPANY NAME: HR GREEN
PROJECT CONTACT: T. SCOTT GREEN, P.E.
CLIENT: VILLAGE OF HINSDALE
DATE PLOTTED: 12/15/2014 15:54:1 PM
FILE NAME: 032.SR.SB.SB04.dgn
PLOT DRIVER: pdf.plt
PEN TABLE: standard-trans.tbl



HRGreen.com
Illinois Professional Design Firm
#184-001322

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PLOT DATE = 12/15/2014	DRAWN - WJH	REVISED -
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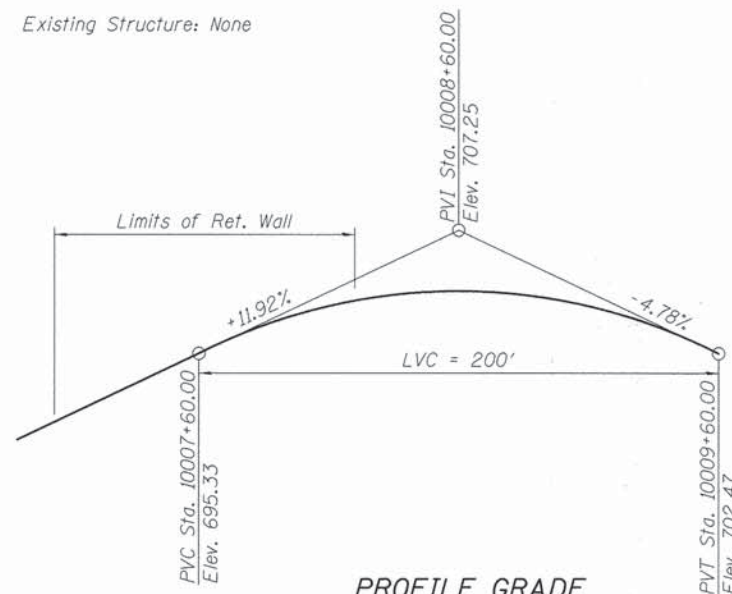
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 022-6404

SHEET NO. SB-29 OF SB-29 SHEETS

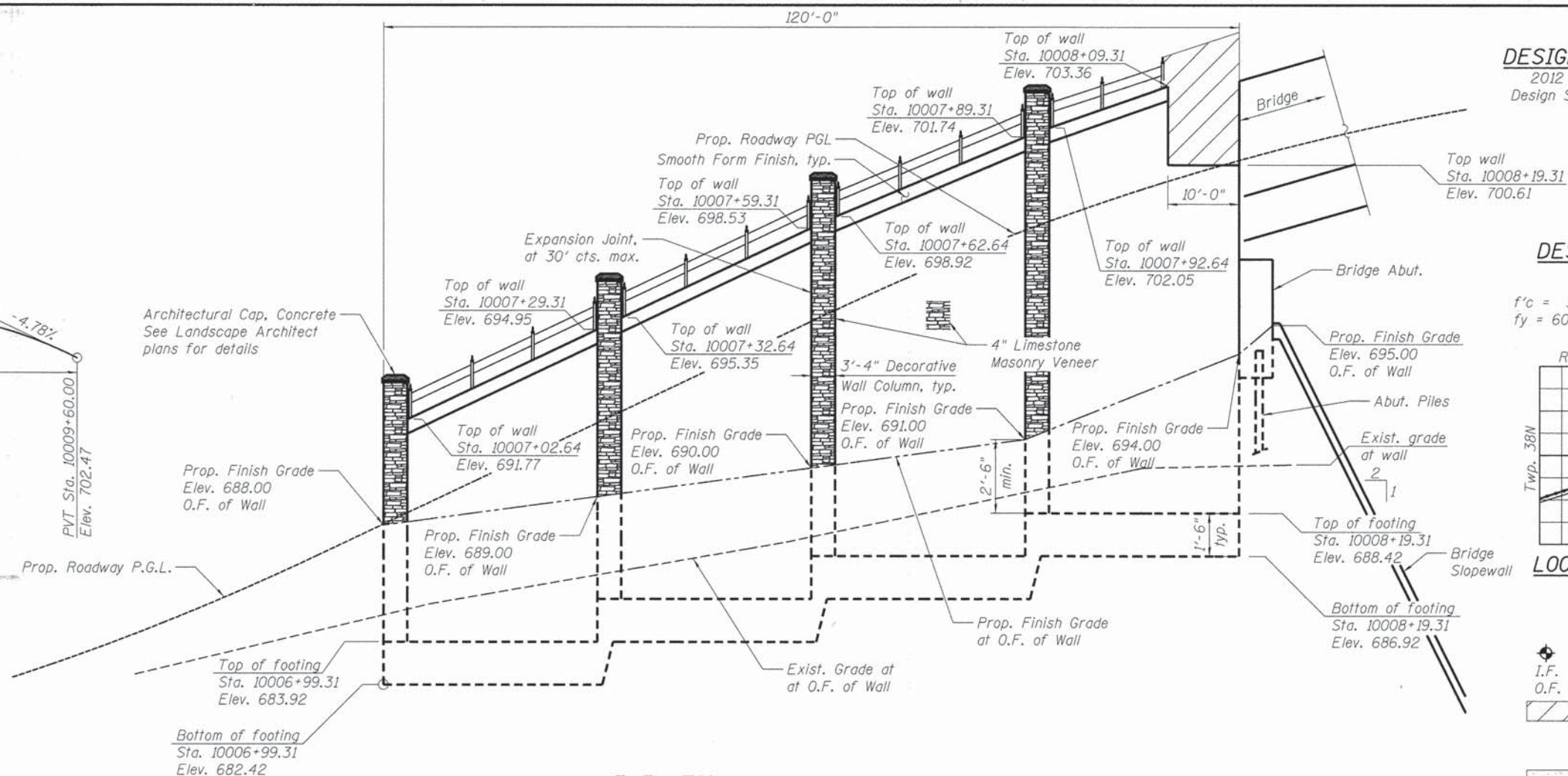
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2999	10-00089-00-BR	DUPAGE	157	120
CONTRACT NO. 61B11				
ILLINOIS FED. AID PROJECT BRM-9003(699)				

Existing Structure: None

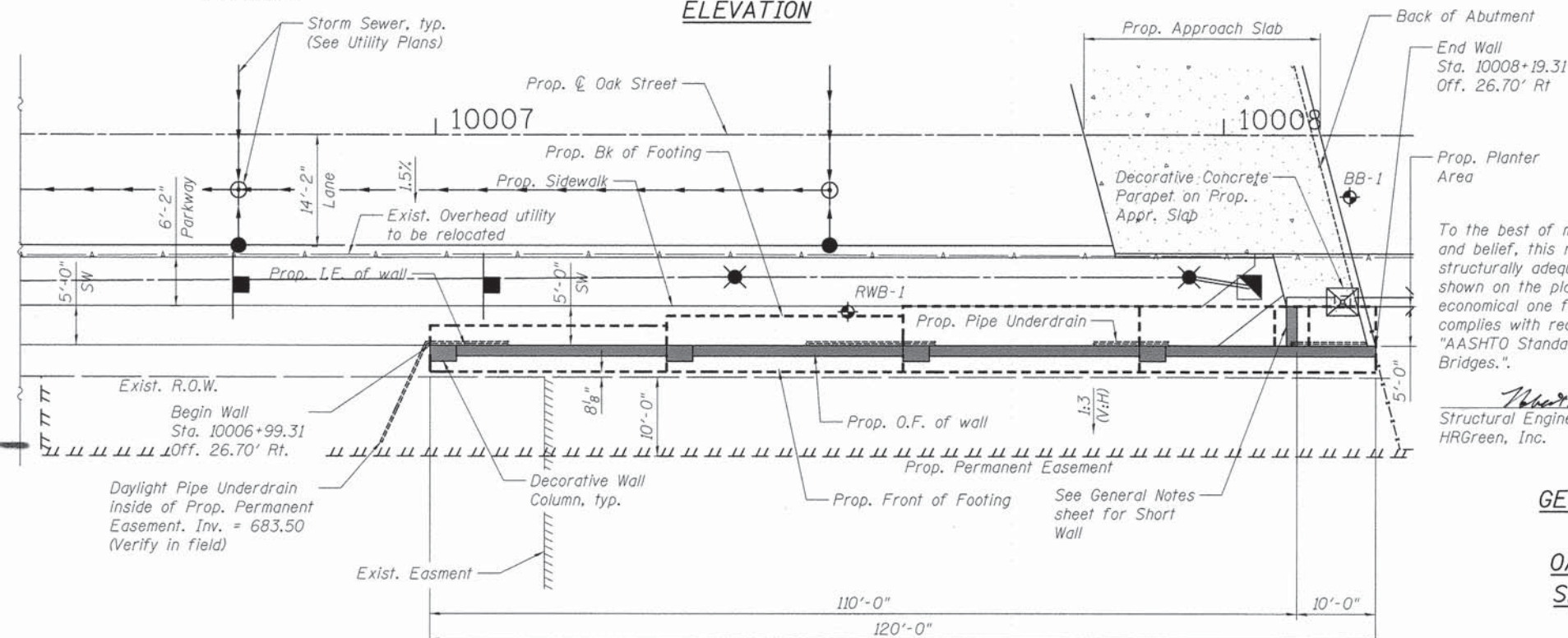


PROFILE GRADE
(along C of Roadway)

Architectural Cap, Concrete
See Landscape Architect
plans for details



ELEVATION

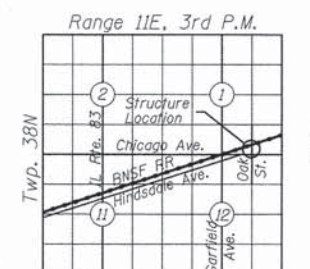


PLAN

2012 AASHTO LRFD Bridge
Design Specifications, 6th Edition

FIELD UNITS

$f'_c = 3,500 \text{ psi}$
 $f_y = 60,000 \text{ psi (Reinforcement)}$



LOCATION SKETCH

 = Soil Boring Locations
 I.F. = Inside Face
 O.F. = Outside Face
 = Decorative Concrete Parapet on Approach Slab behind wall
 See Bridge drawings
 = Approach Slab (Plan View)

- Wall offsets are to I.F. of wall

To the best of my knowledge, information and belief, this retaining wall design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges."

Robert B. Dorn 12/15/2014
Structural Engineer Expires: 11/30/2016
HRGreen, Inc.



GENERAL PLAN AND ELEVATION
RETAINING WALL
OAK STREET (FAU RTE. 2999)
SECTION NO. 10-00089-00-BR
DUPAGE COUNTY
STATION 10006+99.31 TO 10008+19.31



HRGreen.com
Illinois Professional Design Firm
184-001322

USER NAME = dstancz	DESIGNED - JMW
	CHECKED - RGD
PLOT SCALE =	DRAWN - WJH
PLOT DATE = 12/12/2014	CHECKED - 12/12/14

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SW-01 OF SW-05 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	121
		CONTRACT NO. 61B11		
		ILLINOIS FED. AID PROJECT BRM-9003(699)		

GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Over excavation beyond the limits of structure excavation is not measured for payment. Backfill over excavation with same material specified for roadway embankment.
3. "Porous Granular Backfill" and "Removal and Disposal of Unsuitable Material" not included in the Earthwork Schedule have been added for use if Unsuitable Material is encountered in the field as determined by the Engineer. If Unsuitable Material is not encountered, then the quantities shall be deducted and no compensation will be due to the Contractor.

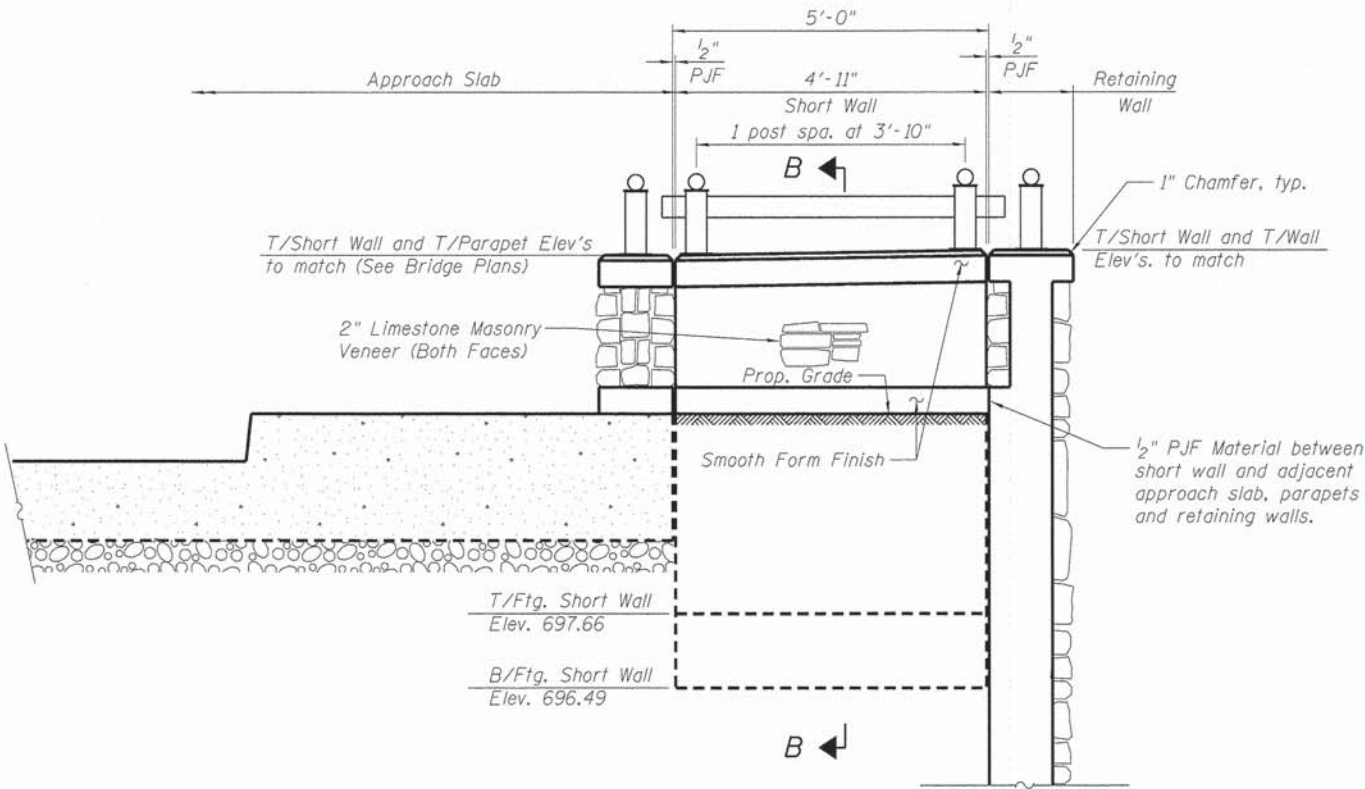
Additional Quantity:
Removal and Disposal of Unsuitable Material = 105 CU YD.
Porous Granular Backfill = 105 CU YD.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	105
POROUS GRANULAR BACKFILL	CU YD	266
STRUCTURE EXCAVATION	CU YD	184
CONCRETE STRUCTURES	CU YD	111
REINFORCEMENT BARS, EPOXY COATED	POUND	16,190
GEOCOMPOSITE WALL DRAIN	SQ YD	121
LIMESTONE MASONRY VENEER	SQ FT	1,138
PARAPET RAILING, SPECIAL	FOOT	100
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	130
ARCHITECTURAL CAP, CONCRETE	EACH	4

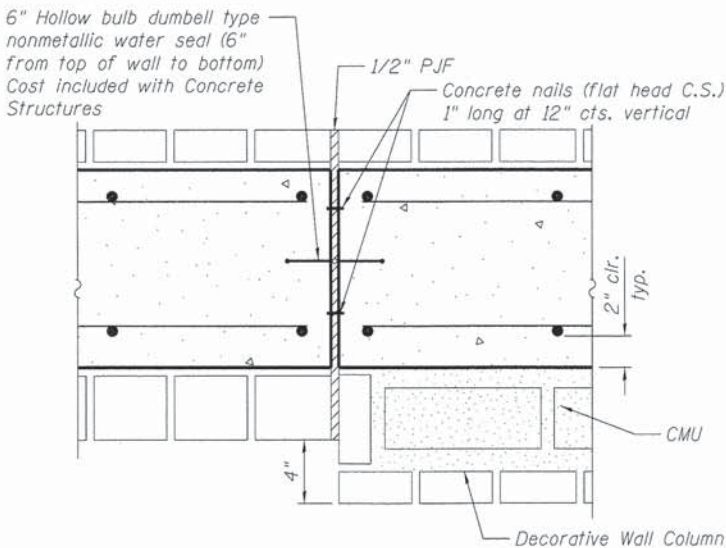
INDEX OF SHEETS

Retaining Wall Plans	
SW-01	General Plan and Elevation
SW-02	General Notes and Bill of Material
SW-03	Wall Elevation and Footing Plan
SW-04	Retaining Wall Sections and Details
SW-05	Soil Boring Logs



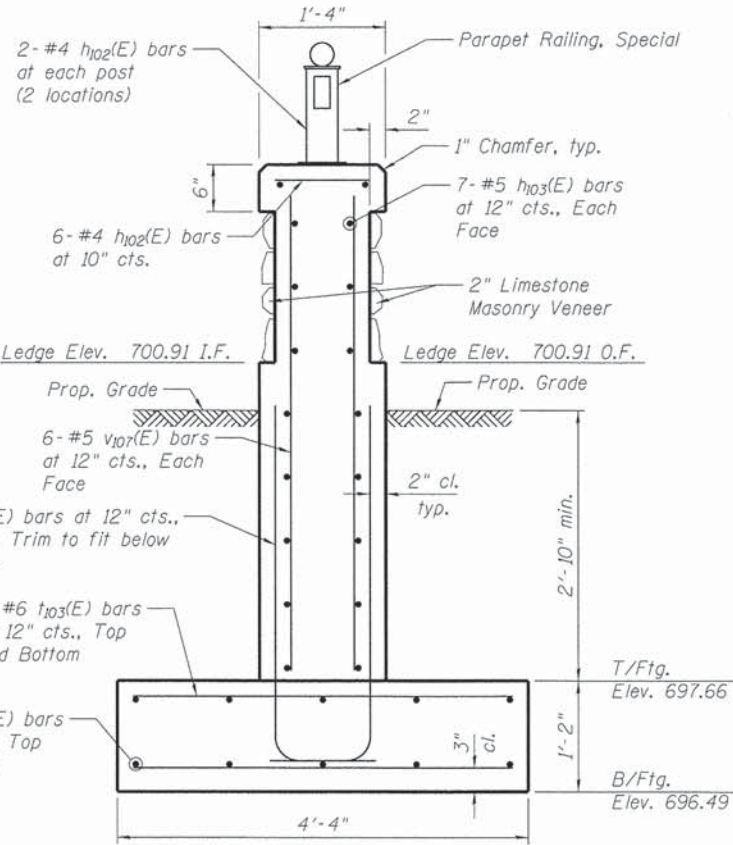
SHORT WALL ELEVATION

Looking North at South Face



EXPANSION JOINT

Cost included with Concrete Structures



SECTION B-B

See Sheet SW-04 for Bill of Bars

COMPANY NAME: HR GREEN
PROJECT CONTACT: J. SCOTT GREEN, P.E.
DATE PLOTTED: 12/12/2014 11:46:48 AM
FILE NAME: 032-STR-SW-gen.dgn
PLOT DRIVER: pdfplot
PEN TABLE: standard-trans.tbl



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#184-001322

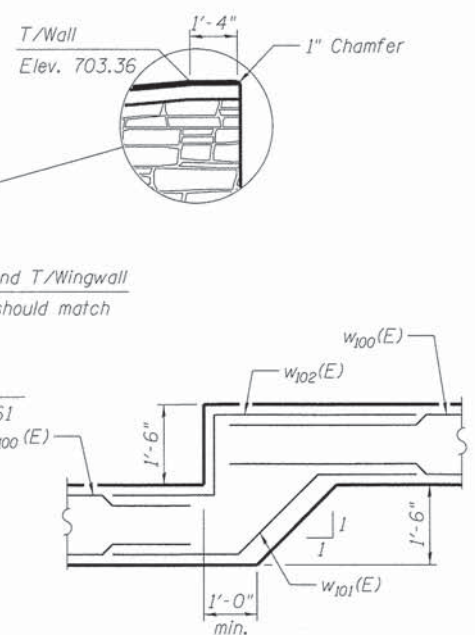
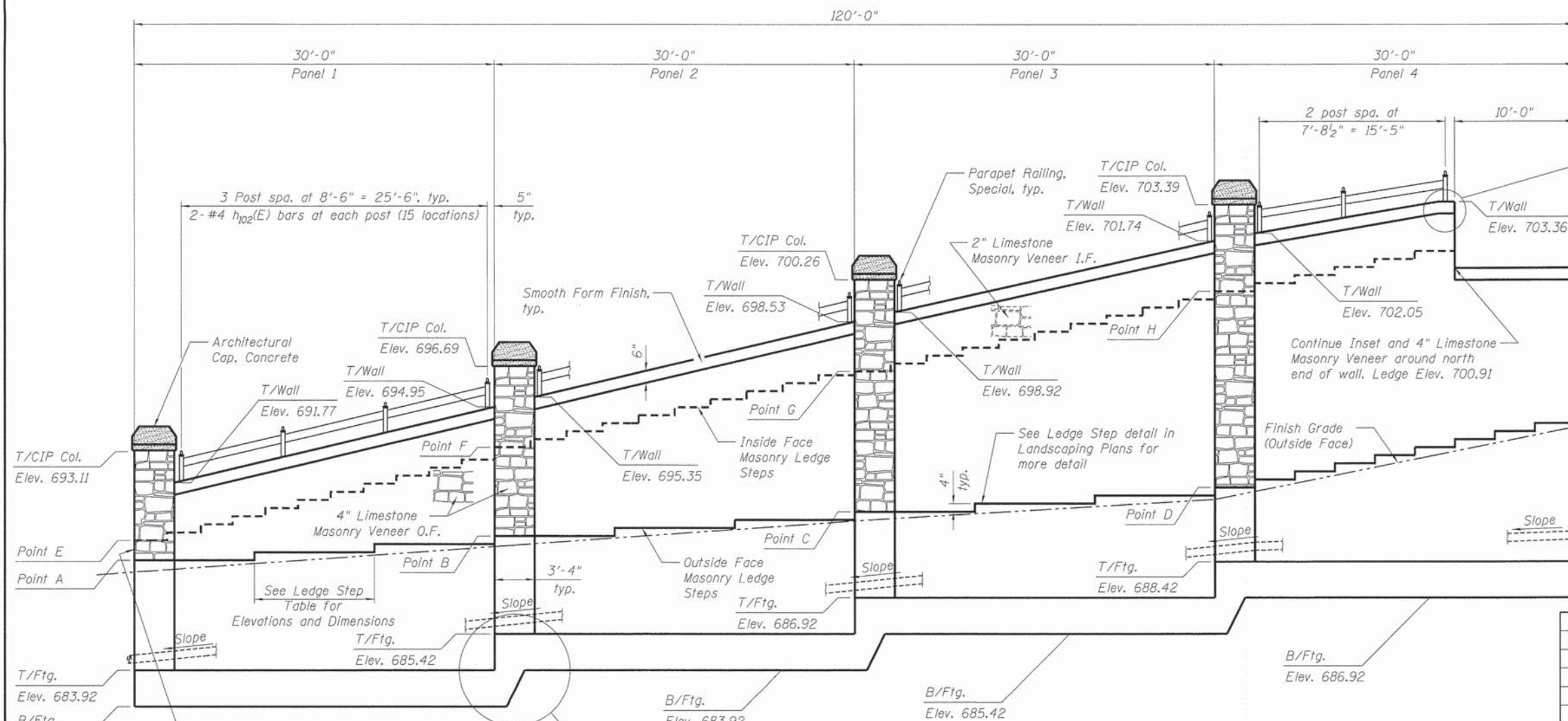
USER NAME = dstanoz	DESIGNED - JMW	REVISED -
PLOT SCALE *	CHECKED - RGD	REVISED -
PLOT DATE = 12/12/2014	DRAWN - WJH	REVISED -
	CHECKED - 12/12/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND TOTAL BILL OF MATERIAL

SHEET NO. SW-02 OF SW-05 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	122
CONTRACT NO. 61B11				
ILLINOIS FED. AID PROJECT BRM-9003(699)				



STEP DETAIL

LEDGE STEP TABLE

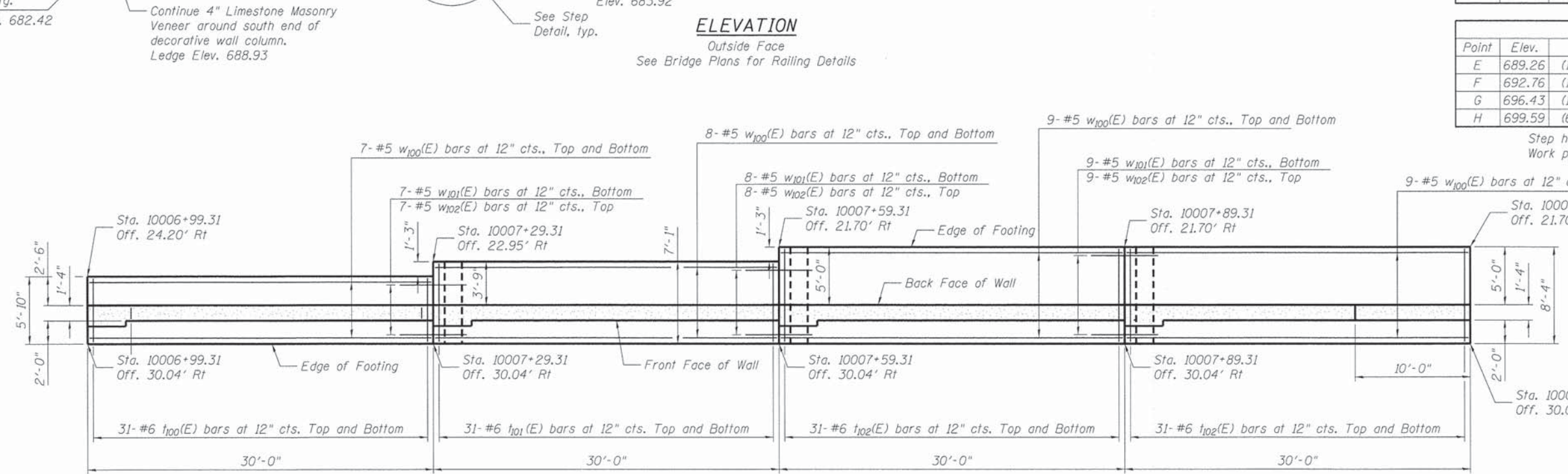
OUTSIDE FACE OF WALL		
Point	Elev.	Step Spacing
A	688.50	(3) - 4" Steps at 10'-0" Spacing = 30'-0"
B	689.50	(3) - 4" Steps at 10'-0" Spacing = 30'-0"
C	690.50	(3) - 4" Steps at 10'-0" Spacing = 30'-0"
D	691.50	(9) - 4" Steps at 3'-4" Spacing = 30'-0"

INSIDE FACE OF WALL		
Point	Elev.	Step Spacing
E	689.26	(11) - 4" Steps at ± 2'-8 3/4" Spacing = 30'-0"
F	692.76	(11) - 4" Steps at ± 2'-8 3/4" Spacing = 30'-0"
G	696.43	(10) - 4" Steps at 3'-0" Spacing = 30'-0"
H	699.59	(6) - 4" Steps at 3'-4" Spacing = 20'-0"

Step height may vary across Expansion Joints.
Work points control step elevations

ELEVATION

Outside Face
See Bridge Plans for Railing Details



FOOTING PLAN

Short Wall not shown for clarity

COMPANY NAME: HR GREEN
PROJECT CONTACT: T. SCOTT GREEN, P.E.
CLIENT: VILLAGE OF HINDSDALE
DATE PLOTTED: 12/12/2014 11:44:50 AM
FILE NAME: 032.SW-03-SW-Footing.tbl
PLOT DRIVER: pdfcat
PEN TABLE: standard-trans.tbl



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#184-001322

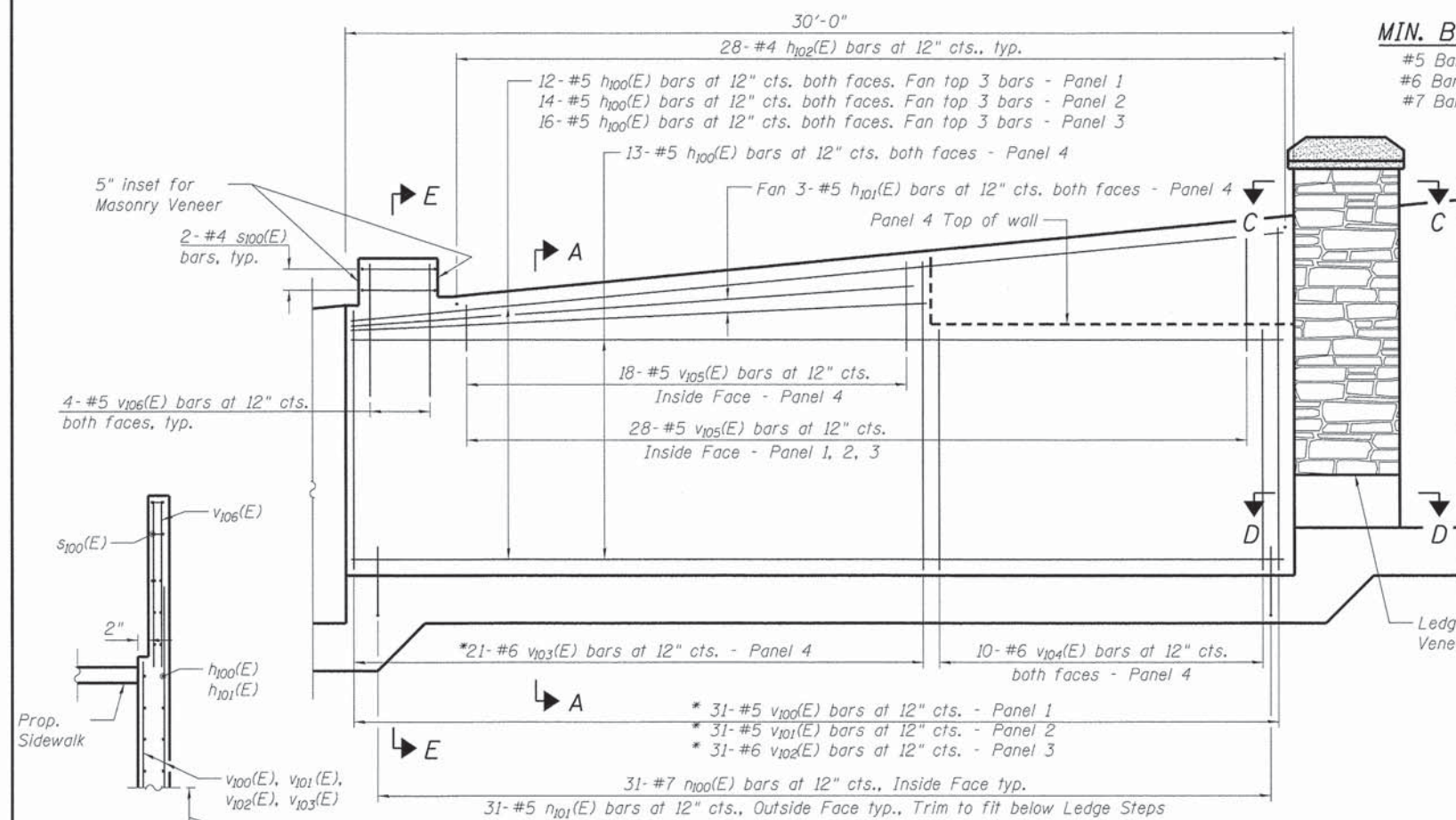
USER NAME = dstancez	DESIGNED = JMW	REVISED =
PLOT SCALE =	CHECKED = RGD	REVISED =
PLOT DATE = 12/12/2014	DRAWN = WJH	REVISED =
	CHECKED = 12/12/14	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL ELEVATION AND FOOTING PLAN

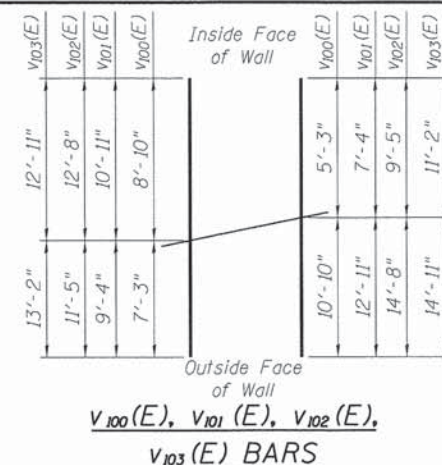
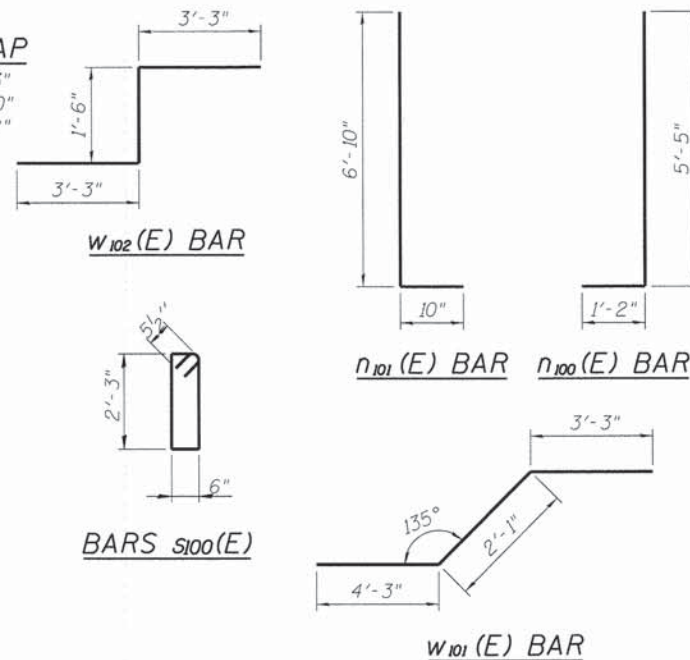
SHEET NO. SW-03 OF SW-05 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	123
CONTRACT NO. 61B11				
[ILLINOIS] FED. AID PROJECT BRM-9003(699)				



MIN. BAR LAP

#5 Bar = 3'-3"
#6 Bar = 3'-10"
#7 Bar = 4'-2"



* Order bars full length. Cut to fit and use remainder in opposite face in same wall panel. Trim to fit below Ledge Steps at inside face.

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
h100(E)	110	#5	29'-8"	—
h101(E)	6	#5	19'-8"	—
h102(E)	152	#4	1'-0"	—
h103(E)	14	#5	4'-8"	—
h104(E)	136	#7	6'-7"	J
h105(E)	124	#5	7'-8"	J
h106(E)	8	#4	6'-5"	□
h107(E)	62	#6	5'-6"	—
h108(E)	62	#6	6'-9"	—
h109(E)	124	#6	8'-0"	—
h110(E)	12	#6	4'-0"	—
h111(E)	31	#5	16'-1"	—
h112(E)	31	#5	20'-3"	—
h113(E)	31	#6	24'-1"	—
h114(E)	21	#6	26'-1"	—
h115(E)	20	#6	12'-0"	—
h116(E)	102	#5	5'-9"	—
h117(E)	32	#5	7'-2"	—
h118(E)	12	#5	5'-6"	—
h119(E)	66	#5	29'-8"	—
h120(E)	24	#5	9'-7"	—
h121(E)	24	#5	8'-0"	—
h122(E)	10	#5	4'-8"	—
h123(E)				
h124(E)				
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h293(E)				

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

BORING LOG RWB-01

WEI Job No.: 373-19-01

Client: **Clark Dietz, Inc.**
Project: **Oak Street Bridge Replacement**
Location: **Hinsdale, DuPage Co., IL**

Datum: NAV88
Elevation: 687.15 ft
North: 1871594.70 ft
East: 1096961.87 ft
Station: 10007+52.3
Offset: 22.4 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
	686.75	6-inch thick, black CLAY LOAM --TOPSOIL-- Medium stiff to very stiff, brown CLAY LOAM --FILL--			1	2 3 5	0.50 P	28						9	5 6 8	1.48 B	11
			5		2	2 4 5	3.53 B	22				25		10	3 5 6	1.56 B	12
	681.6	Very stiff, brown SILTY CLAY LOAM, trace gravel			3	6 6 8	3.53 B	18						11	9 10 14	1.25 P	12
			10		4	3 3 7	2.71 B	19				30		12	5 5 7	0.74 B	14
					5	6 10 11	3.53 B	16									
			15		6	5 10 10	2.54 B	14				35		13	5 12 10	1.23 B	12
	671.6	--HARD DRILLING-- Medium dense, gray SILTY LOAM, trace gravel			7	10 10 11	NP	10		652.1	Boring terminated at 35.00 ft						
	669.1	Stiff, gray SILTY LOAM, trace to little gravel	20		8	3 5 8	1.48 B	12				40					
GENERAL NOTES									WATER LEVEL DATA								
Begin Drilling: 03-02-2012 Complete Drilling: 03-02-2012									While Drilling: ☒ DRY								
Drilling Contractor: Wang Testing Services Drill Rig: D-50 ATV									At Completion of Drilling: ☒ DRY								
Driller: K&K Logger: F. Bozua Checked by: M. Snider									Time After Drilling: NA								
Drilling Method: 3.25 IDA HSA Boring backfilled upon completion									Depth to Water: ☒ NA								
									The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.								

COMPANY NAME: HR GREEN
PROJECT CONTACT: T. SCOTT GREEN, P.E.
CLIENT: 10/12/2014 14:46:54
FILE NAME: 012 STR SW SOIL.dgn
PLOT DRIVER: pdfplot
PEN TABLE: s:standard-trans.tbl



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Illinois Professional Design Firm
#184-001322

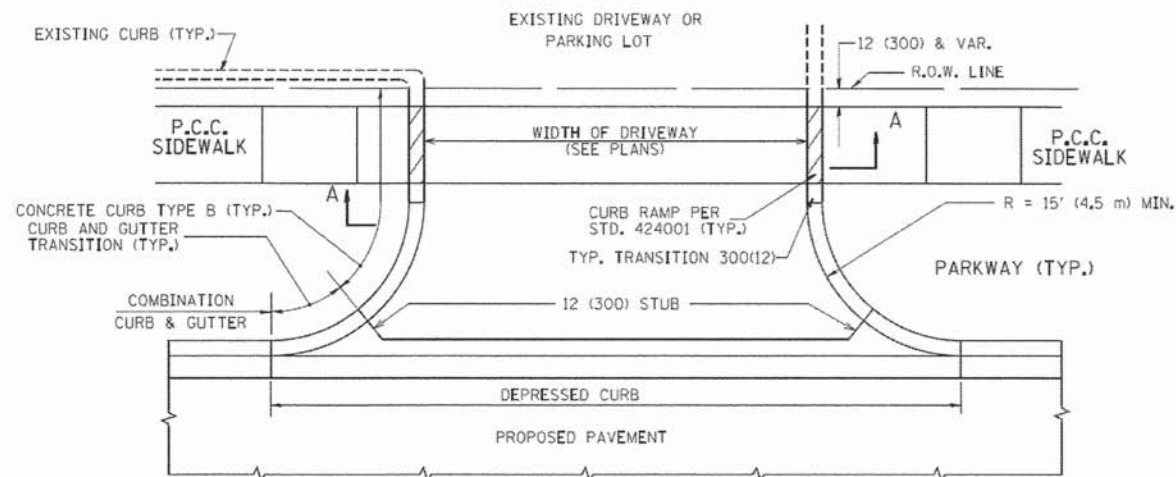
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

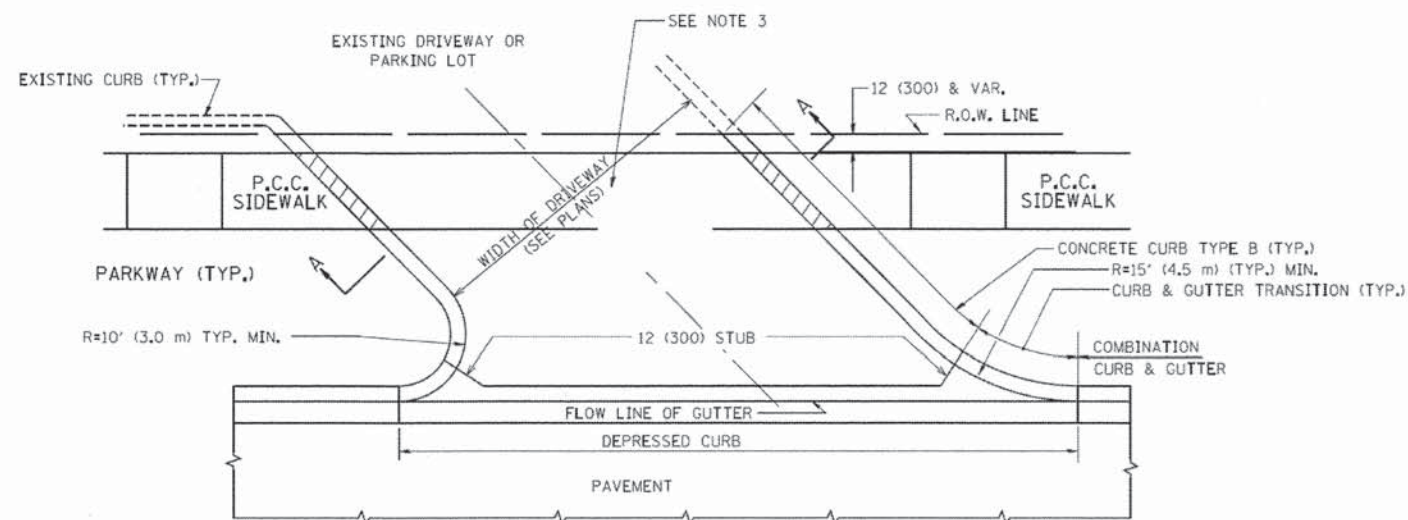
SOIL BORING LOGS

SHEET NO. SW-05 OF SW-05 SHEETS

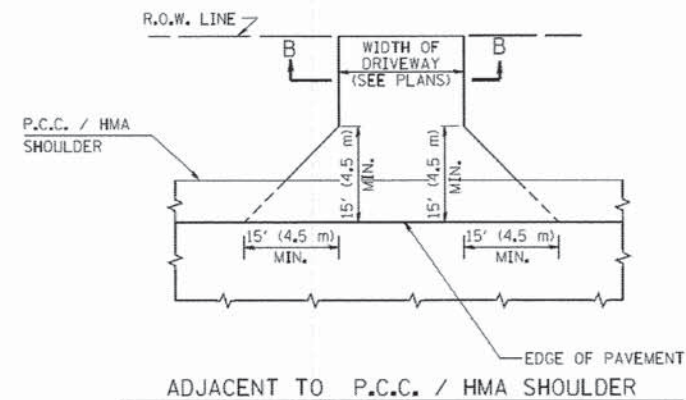
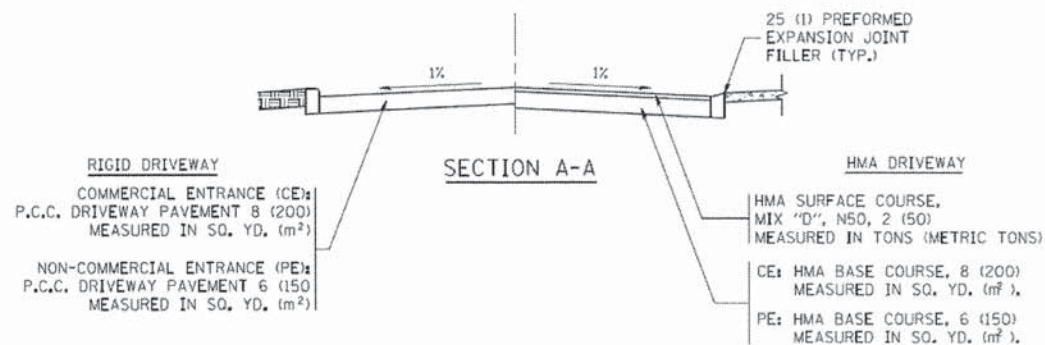
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CONTRACT NO. 61811				
ILLINOIS FED. AID PROJECT BRM-9003(699)				



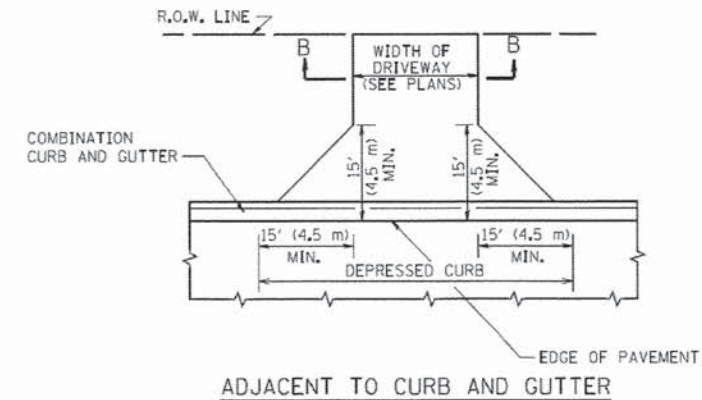
WITH CONCRETE CURB, TYPE B



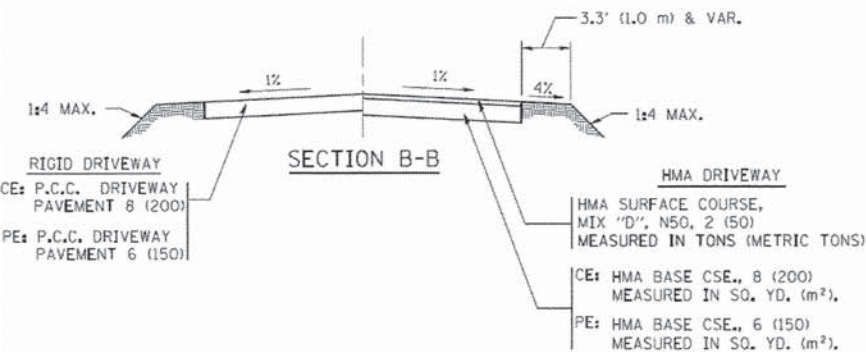
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



SECTION B-B

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.

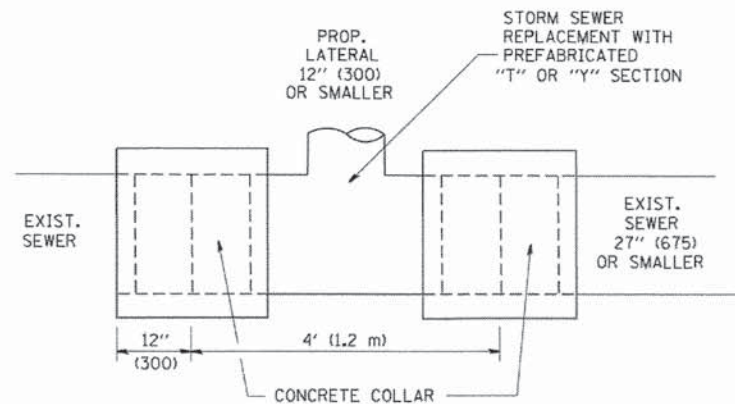
COMPANY NAME: MR. GREEN
PROJECT CONTACT: T. SCOTT CREECH, P.E.
CLIENT: VILLAGE OF HINDSDALE
DATE PLOTTED: 12/11/2014 15:53:31 PM
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PLOT DRIVER: pdf_vault
PEN TABLE: standard-trans-screen-topo.tbl

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PLOT SCALE = 50.0000' = 1"		CHECKED -	REVISED - R. BORO 06-11-08
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

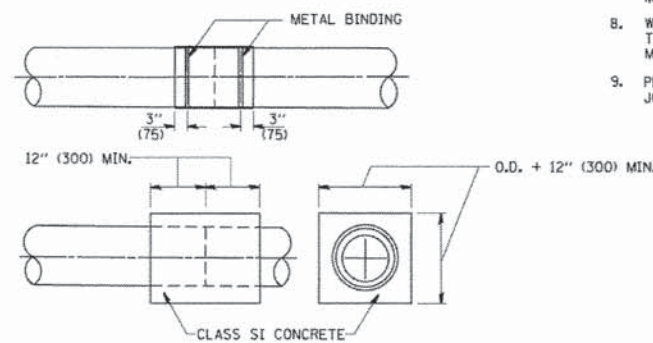
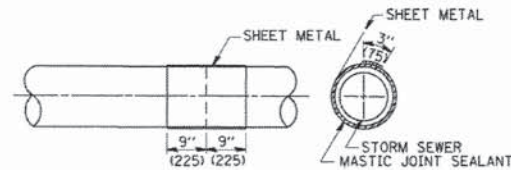
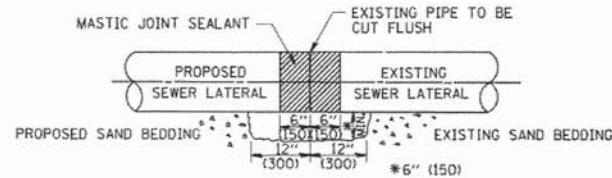
DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	126
BD0156-07 (BD-01)			CONTRACT NO.	61B11
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DETAIL "A"

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

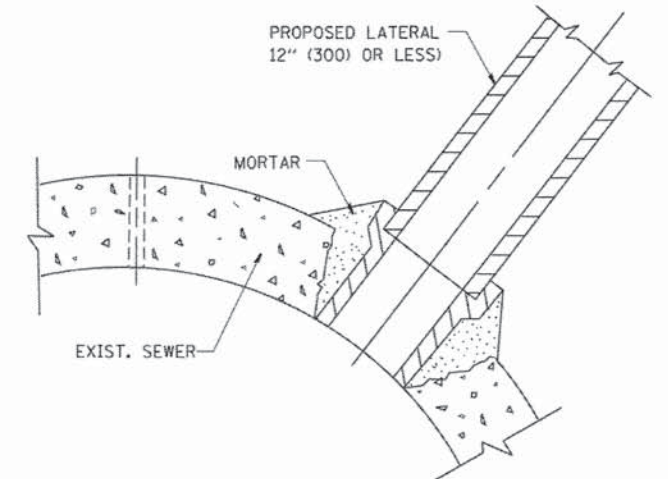


DETAIL "B"

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.

COMPANY NAME: MR. GREEN
PROJECT CONTACT: T. SCOTT CREECH, P.E.
CLIENT: VILLAGE OF HINDSDALE
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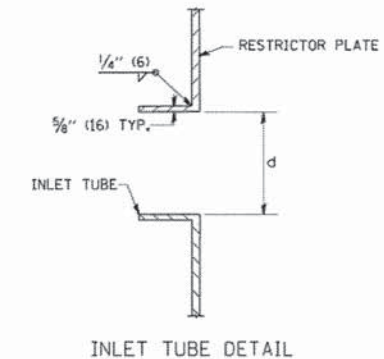
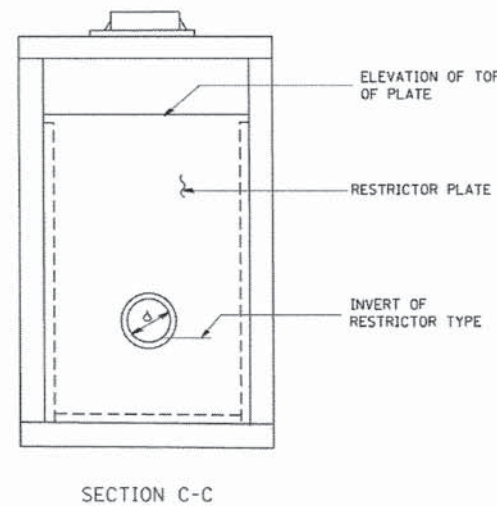
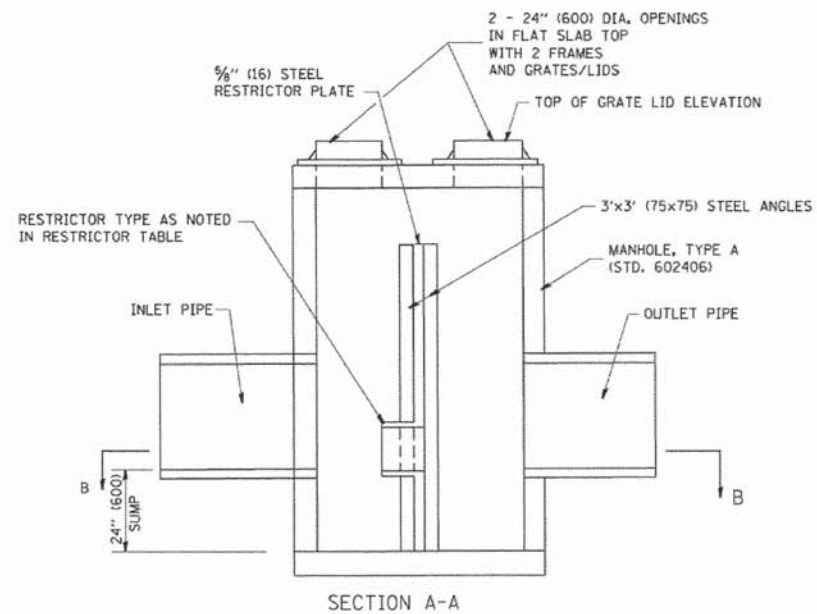
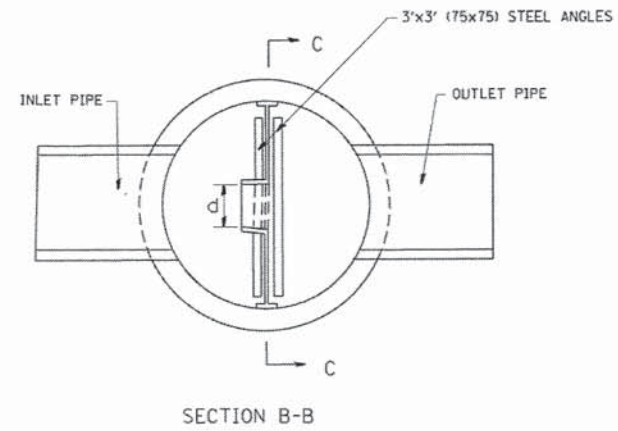
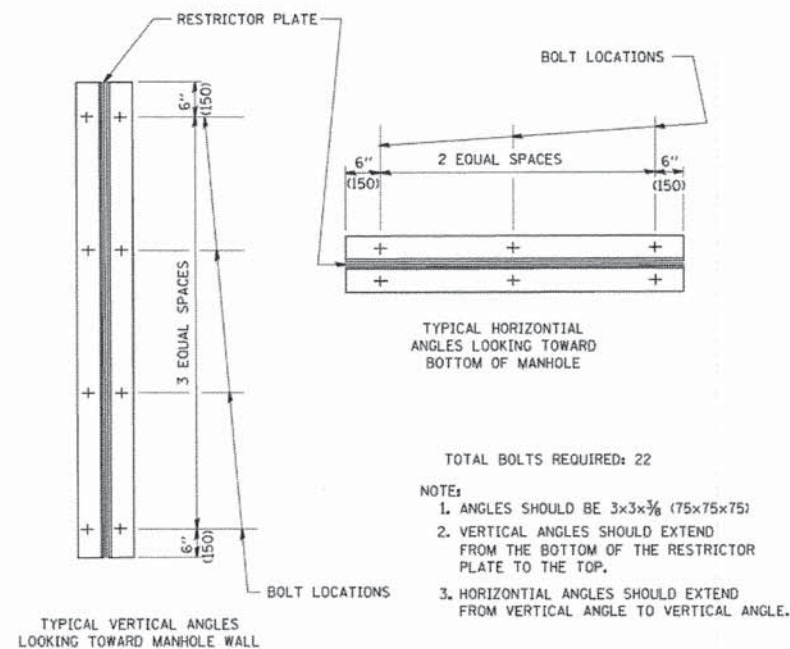
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		CHECKED: -	REVISED: R. SHAH 10-25-94
		DATE: 07-25-90	REVISED: R. SHAH 06-12-96

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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	128
BD500-01 (BD-7)		CONTRACT NO.		61B11
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

[illegible]

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
 LENGTH: $\frac{1}{2}$ TO 1 DIA.		 STREAM CLEARS SIDES	 LENGTH: $2\frac{1}{2}$ DIA.	 LENGTH: $2\frac{1}{2}$ 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.

COMPANY NAME: HR GREEN
PROJECT CONTACT: T. SCOTT CREECH, P.E.
CLIMATE: VILLAGE OF HINDSDALE
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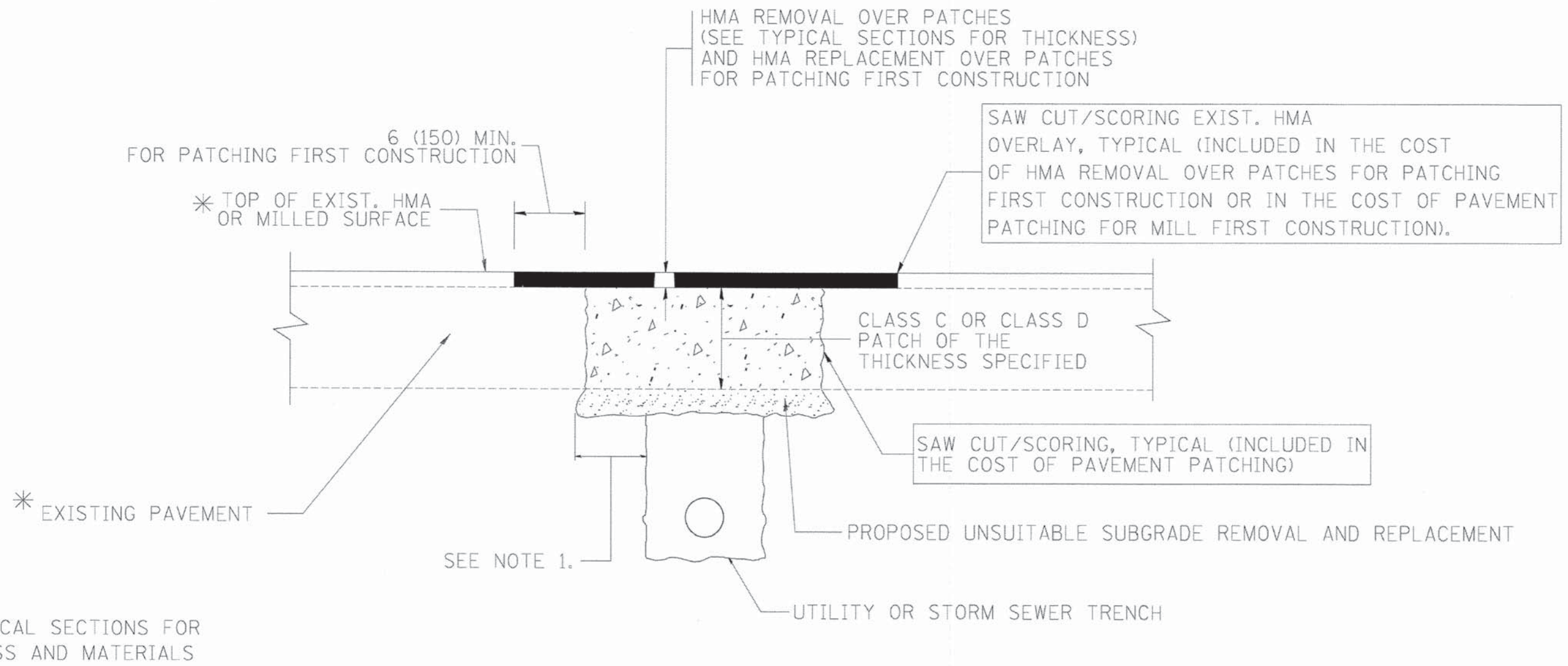
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	PLOT SCALE = 500.000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 01-08-01
	PLOT DATE = 1/4/2000	DATE = 09-09-94	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MANHOLE WITH
RESTRICTOR PLATE**

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	129
BD600-04 (BD-12)		CONTRACT NO. 61B11		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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.

COMPANY NAME: HR GREEN
PROJECT CONTACT: T. SCOTT CREECH, P.E.
CLIENT: VILLAGE OF HINDSDALE
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		PLOT SCALE = 50.000' = 1"	CHECKED -
		PLOT DATE = 10/27/2008	DATE = 10-25-94
			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.

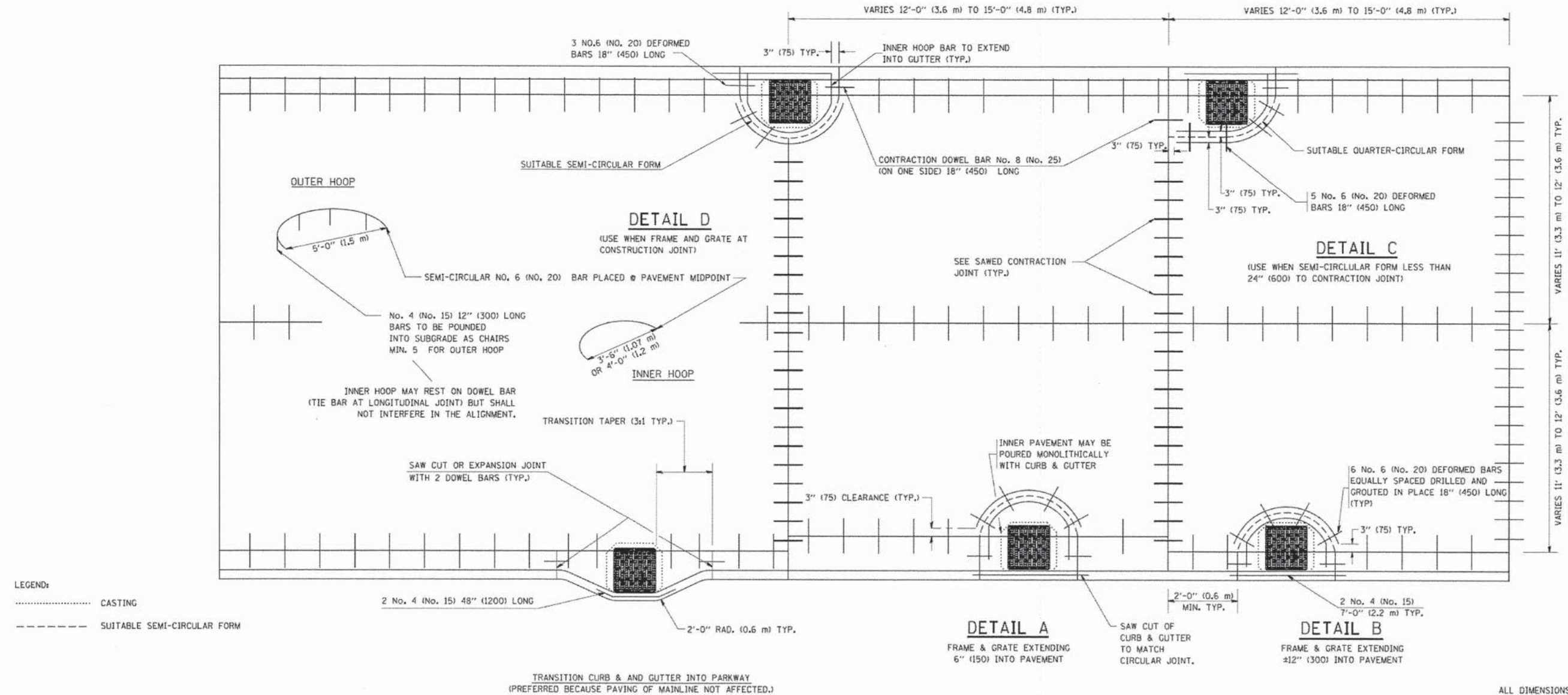
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2999	10-00089-00-BR	DUPAGE	157	130
BD400-04 (BD-22)			CONTRACT NO.	61B11
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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		DRAWN -	REVISED -
		TOM MATOUSEK	T. MATOUSEK 10-02-00
		CHECKED -	REVISED -
		A. ABBAS	T. MATOUSEK 04-25-02
		DATE -	REVISED -
		01-04-99	P. LAFLEUR 08-27-02

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PCC PAVEMENT ROUNDOUTS AT
CURB AND GUTTER

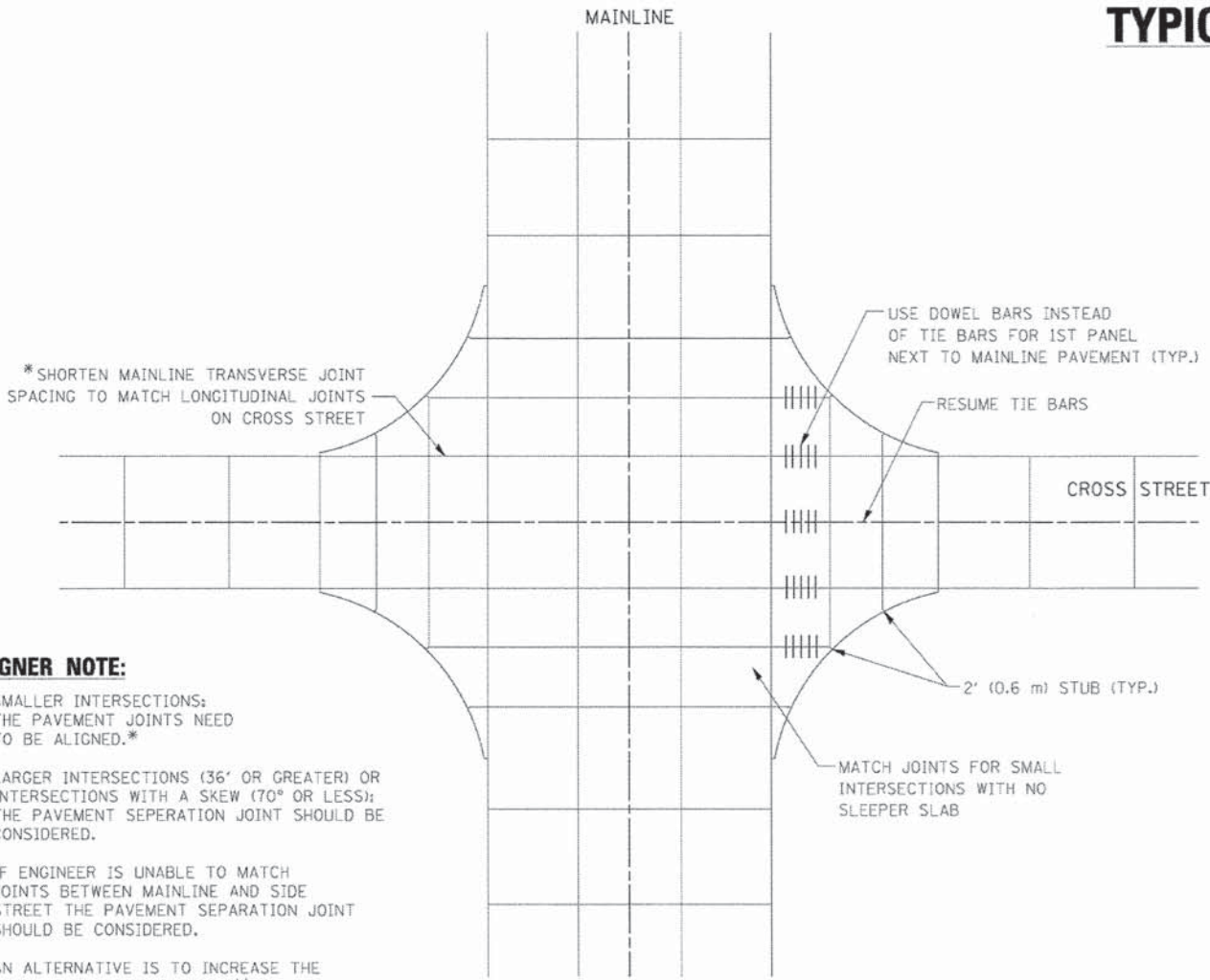
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	BD-48			
		CONTRACT NO.		61811
		FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT

COMPANY NAME: MR. GREEN
PROJECT CONTACT: MR. GREEN
CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION
DATE PLOTTED: 12/11/2004 2:02:18 PM
FILE NAME: 032.dwg
PLOT DRIVER: pdf, vplot
PEN TABLE: standard-trans-topo.tbl

TYPICAL APPLICATION

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



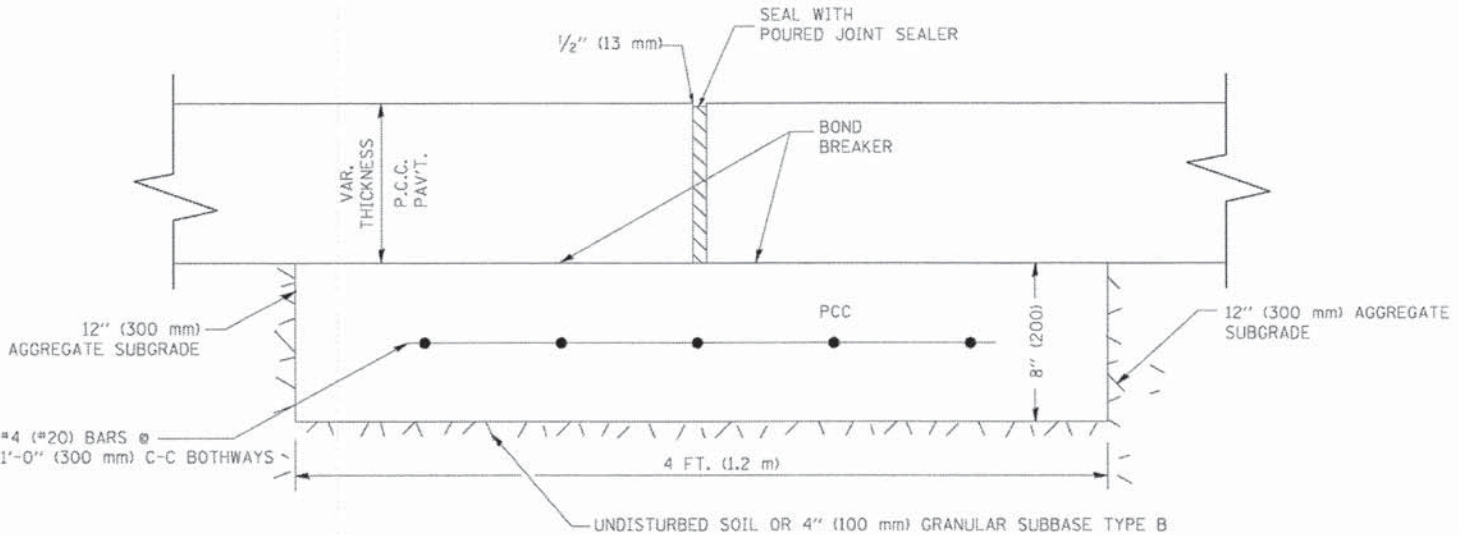
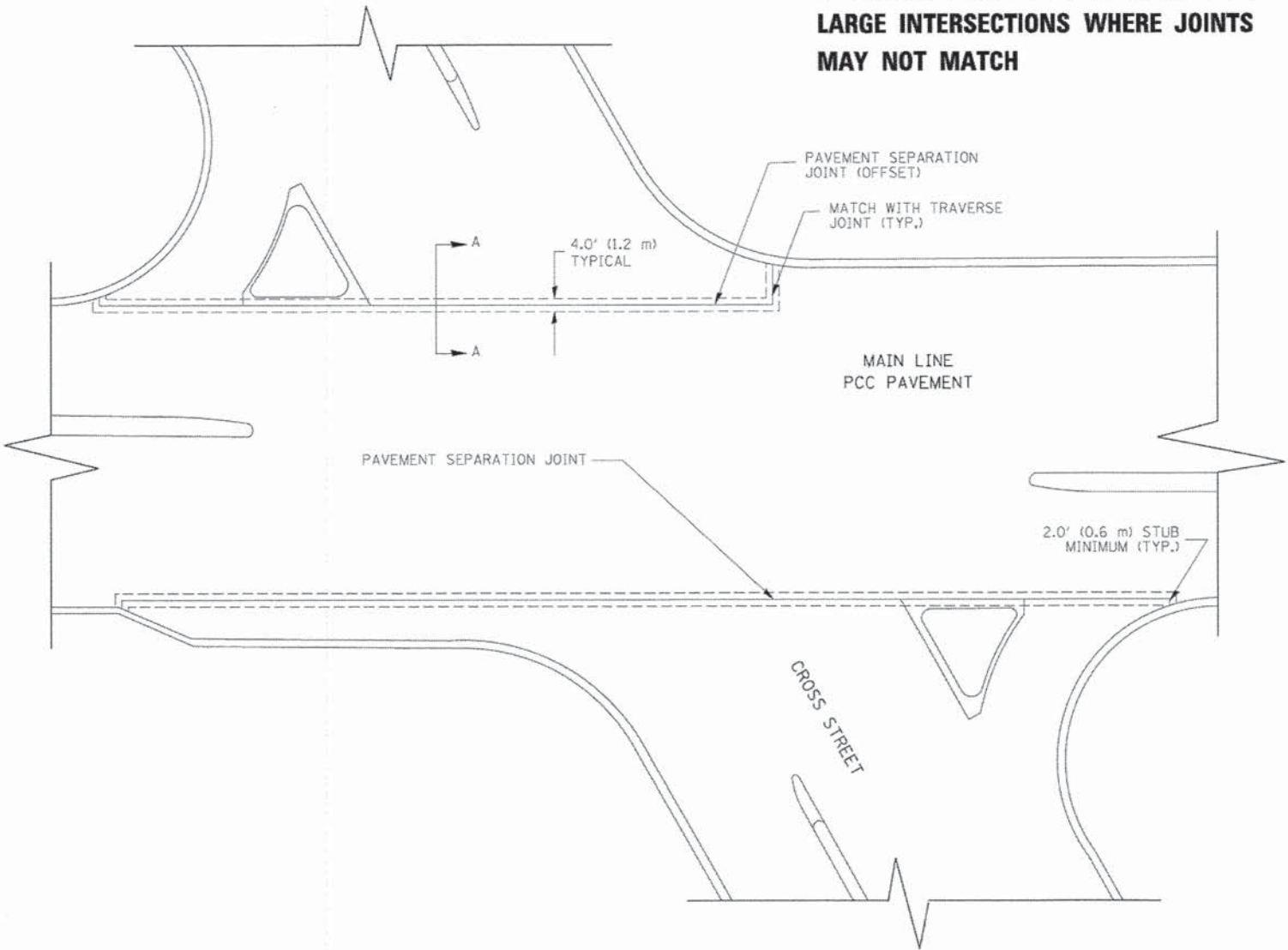
DESIGNER NOTE:

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 SEPARATION 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.
5. 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.

PLAN

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

COMPANY NAME: HW GREEN
PROJECT CONTACT: T. SCOTT GREEN, P.E.
DATE PLOTTED: 12/11/2014 2:02:02 PM
FILE NAME: 032.dgn
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bd52.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	132
BD52		CONTRACT NO.		61B11
ILLINOIS FED. AID PROJECT				

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

UTILITY GROUND CONNECTION, (AS APPLICABLE), BY UTILITY

UTILITY GROUND, AS APPLICABLE, (BY UTILITY)

UTILITY POLE, PRIMARY CUT-OUTS TRANSFORMER(S) (AS APPLICABLE) BY THE ELECTRIC UTILITY. THE CONTRACTOR SHALL COORDINATE AS REQUIRED.

PROVIDE ADEQUATE SLACK FOR DRIP LOOP AND CONNECTION BY THE UTILITY

NON-METALLIC "U" GUARD. FURNISH FOR INSTALLATION BY ELECTRIC UTILITY. LENGTH AS REQUIRED

CONDUIT/CONDUCTOR SEALING BUSHING, SIZE AND CONDUCTOR CONFIGURATION TO MATCH SERVICE. OZ GEDNEY TYPE CSBG OR APPROVED EQUAL. COMPLETE WITH LOCKING COLLAR (SEE DETAIL)

2-HOLE STRAP FOR RIGID CONDUIT, ZINC PLATED STEEL O.Z. GEDNEY TYPE TH-1800 OR APPROVED EQUAL. ATTACHED WITH LAG SCREWS. (TYPICAL)

APPROXIMATELY 10'-6" (3.2 m)

RIGID STEEL CONDUIT RISER (CONTINUOUS 10' (3 m) LENGTH).

HEAVY DUTY GROUND CLAMP, UNIVERSAL U-CLAMP TYPE, BY O.Z. GEDNEY, T&B OR APPROVED EQUAL.

RIGID GALVANIZED THREADED COUPLING.

PVC-COATED RIGID CONDUIT NIPPLE OR CONDUIT EXTENSION, LENGTH AS REQUIRED

APPROX. 6" (150 mm)

GRADE

EXOTHERMIC WELD CONNECTION

PVC COATED RIGID CONDUIT ELBOW 24" (609.6 mm) RADIUS (MIN.) SEE NOTE 3.

30" MIN - 36" MAX (762.0 mm MIN. - 914.0 mm MAX.) TO TOP OF CONDUIT

EXTENSION TO SERVICE EQUIPMENT

THREADED TRANSITION COUPLING, AS APPLICABLE (SEE NOTE 6)

HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY (SEE NOTE 6)

GROUNDING ELECTRODE CONDUCTOR, BARE COPPER, #1/0 AWG. MINIMUM

UTILITY GROUNDING ELECTRODE (AS APPLICABLE), BY UTILITY

GROUND ROD SHALL BE INSTALLED NOT LESS THAN 24" (609 mm) FROM POLE UNLESS APPROVED BY THE ENGINEER

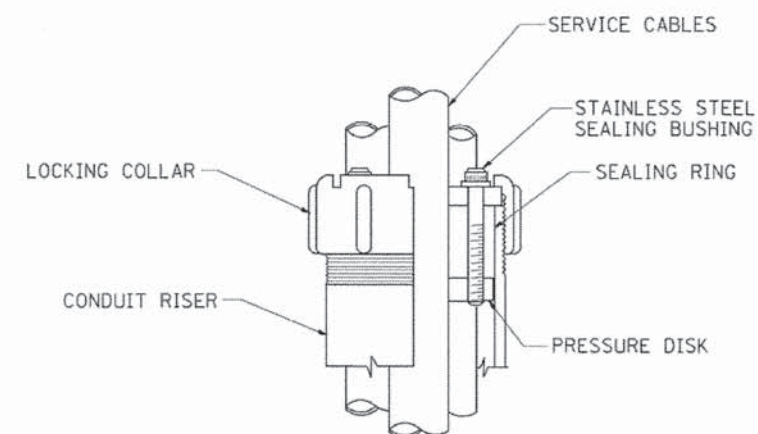
CUSTOMER SERVICE RISER GROUND ELECTRODE 5/8" X 10' (15.875 mm X 3.048 m) COPPERCLAD GROUND ROD (IN UNDISTURBED SOIL) SEE NOTE 5.

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

COMPANY NAME: MR GREEN
PROJECT CONTACT: T. SCOTT CREECH, P.E.
CLIENT: VILLAGE OF HINDSDALE
DATE PLOTTED: 12/11/2014 2:14:48 PM
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DESIGNED -
DRAWN -

REVISED - 03-03-06
REVISED -

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

CHECKED - MEA
DATE -

REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRIC SERVICE INSTALLATION
AERIAL, REMOTE DISCONNECT

SCALE: NONE

SHEET NO. 1 OF 1 SHEETS

STA.

TO STA.

F.A.
RTE.
2999

SECTION
10-00089-00-BR

COUNTY
DUPAGE

TOTAL SHEETS
157

SHEET NO.
133

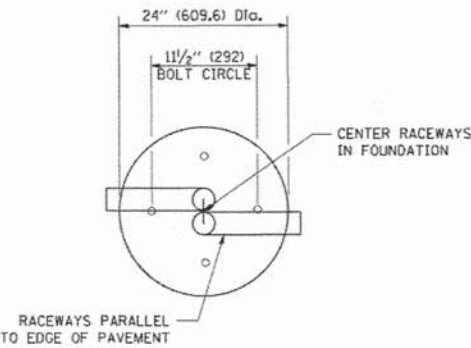
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CONTRACT NO. 61B11

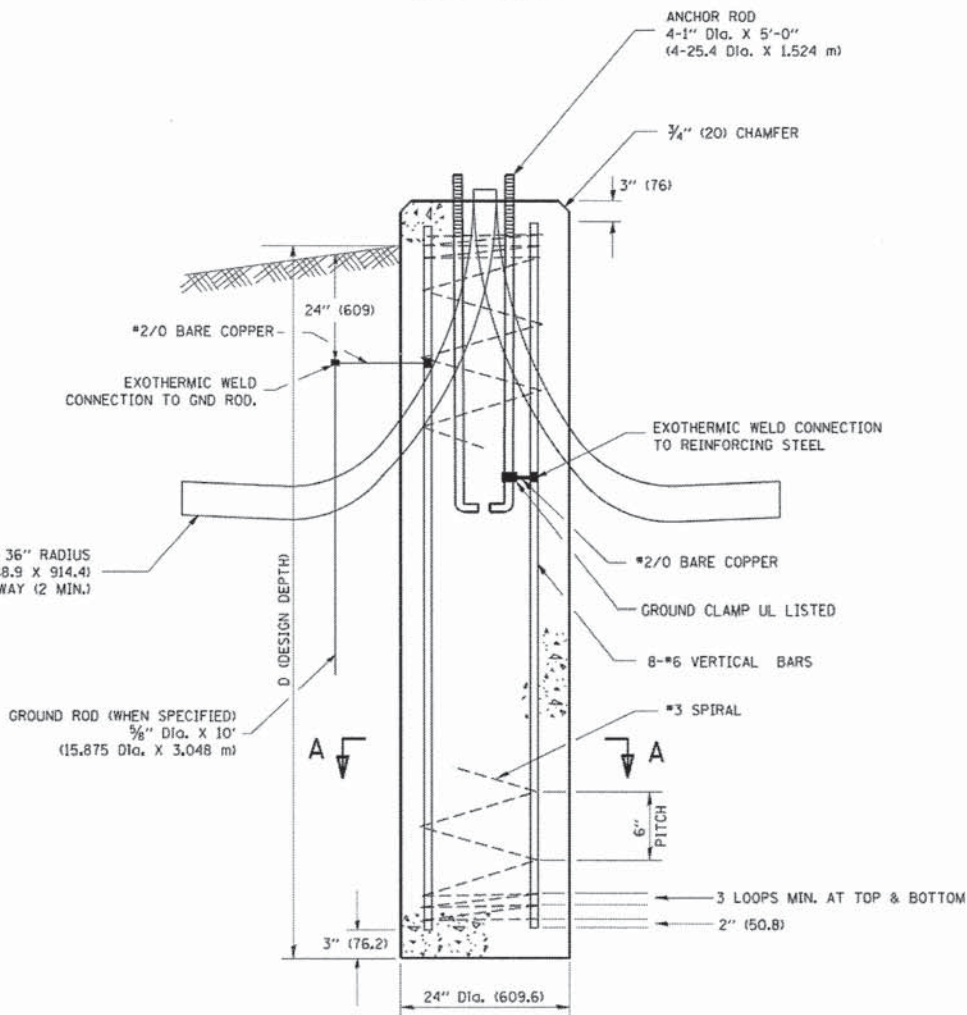
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

LIGHT POLE FOUNDATION DEPTH TABLE
 30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

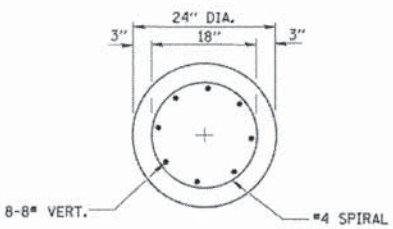
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Ou = 0.375 TON/SQ. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY Ou = 0.75 TON/SQ. FT.	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY Ou = 1.50 TON/SQ. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND φ = 34°	9'-6" (2.90 m)	10'-7" (3.22 m)
MEDIUM SAND φ = 37.5°	9'-0" (2.74 m)	9'-10" (2.99 m)
DENSE SAND φ = 40°	8'-3" (2.51 m)	9'-7" (2.91 m)



TOP VIEW



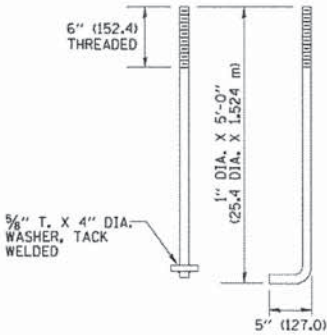
FOUNDATION DETAIL



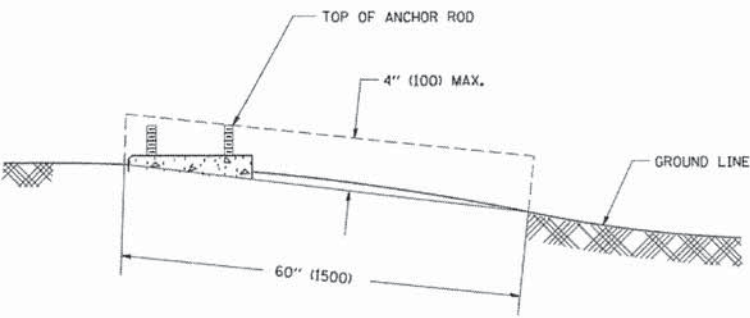
SECTION A-A

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 4 IN. (100 mm) 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 S1. 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 0H, 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 BOLT DETAIL

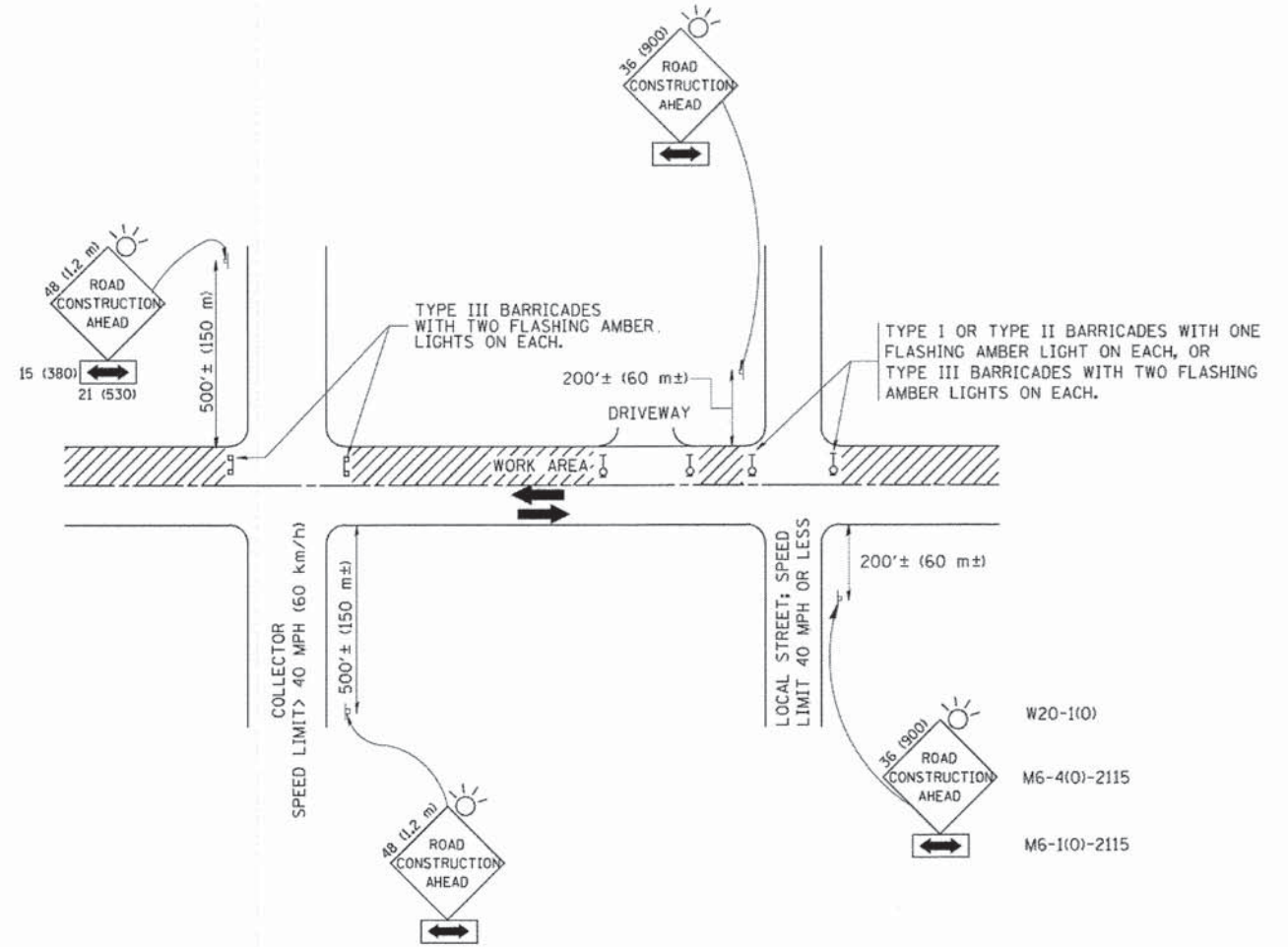


FOUNDATION EXTENSION DETAIL

FILE NAME =	USER NAME = gogianob	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHT POLE FOUNDATION				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\data\std\22x34\be300.dgn		DRAWN -	REVISED -		30' (9.144 m) TO 35' (10.668 m) M.H. 1 1/2" (292 mm) BOLT CIRCLE				2999	10-00089-00-BR	DUPAGE	157	134
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -						BE-300		CONTRACT NO.		61B11
PLOT DATE = 1/4/2008		DATE -	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
					SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.		TO STA.		

COMPANY NAME: MR GREEN
PROJECT CONTACT: T. SCOTT CRECH, P.E.
CLIENT: VILLAGE OF HINGSDALE
DATE PLOTTED: 12/11/2014 2:10:17 PM
FILE NAME: 032.dwt
PLOT DRIVER: pdfwrite
PLOT TABLE: standard-trans-screen-table.tbl

032.dwt-100.dgn



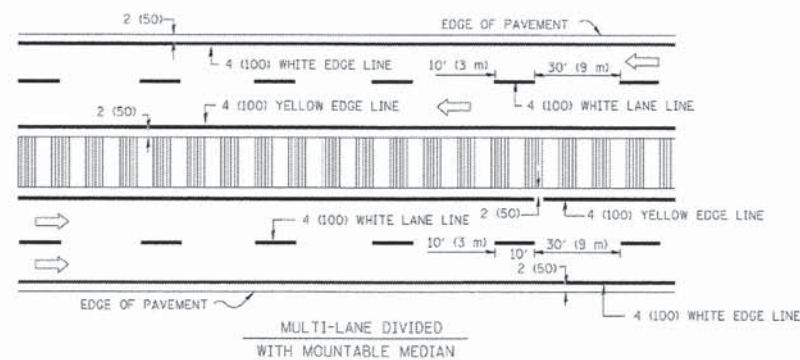
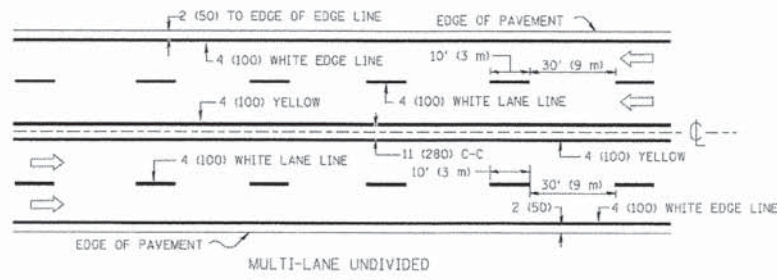
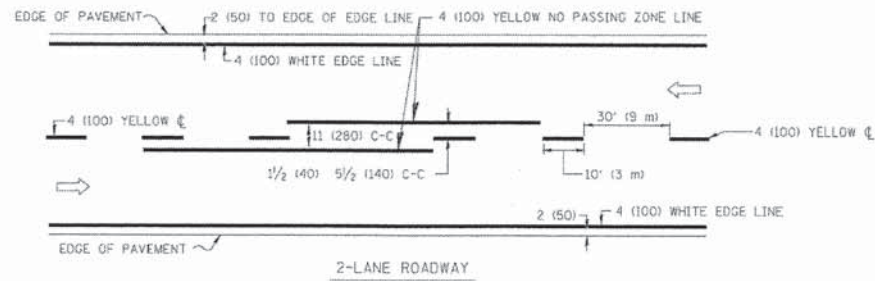
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
1. 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:
- a) 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.
 - b) 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.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) 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.
 - b) 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.

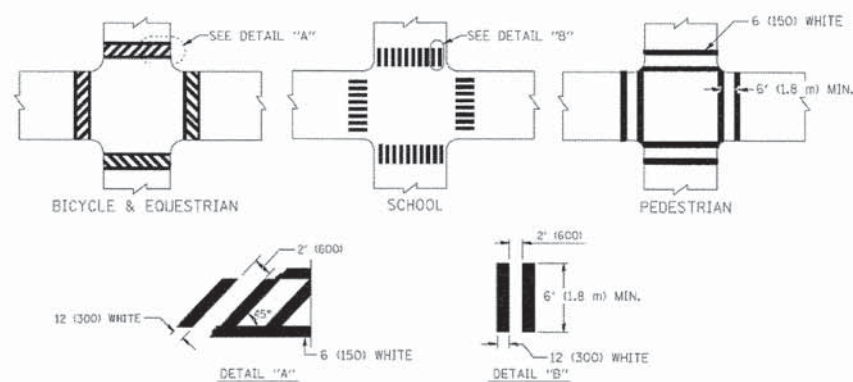
All dimensions are in millimeters (inches) unless otherwise shown.

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		DRAWN -	REVISED - A. HOUSEH 03-06-96				10-00089-00-BR	DUPAGE	157	135		
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96				TC-10				CONTRACT NO.	61B11
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACH 01-06-00				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
PEN TABLE					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.				

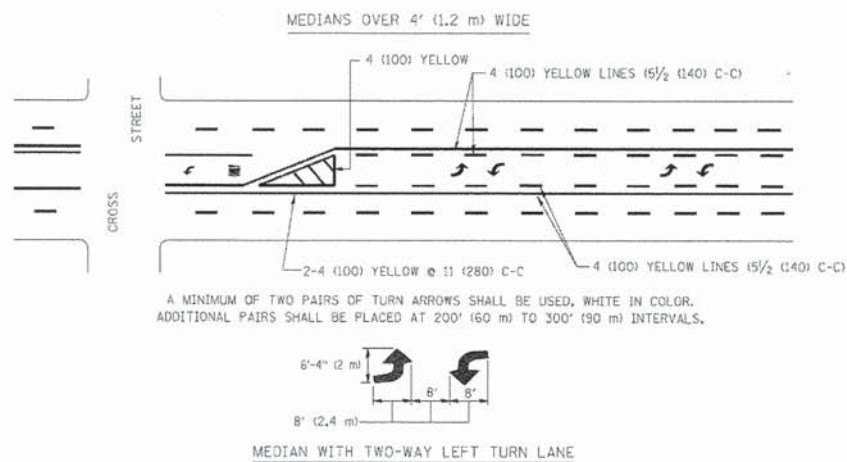
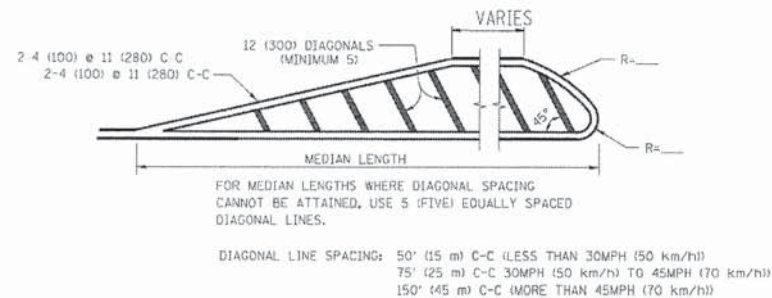
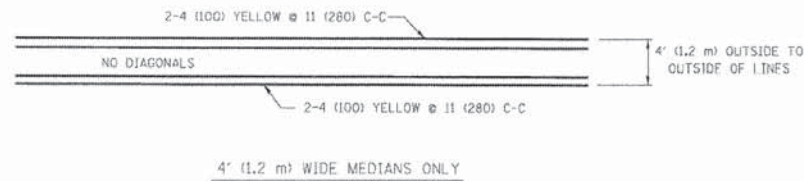


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

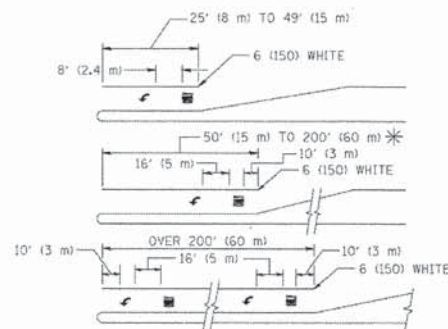
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



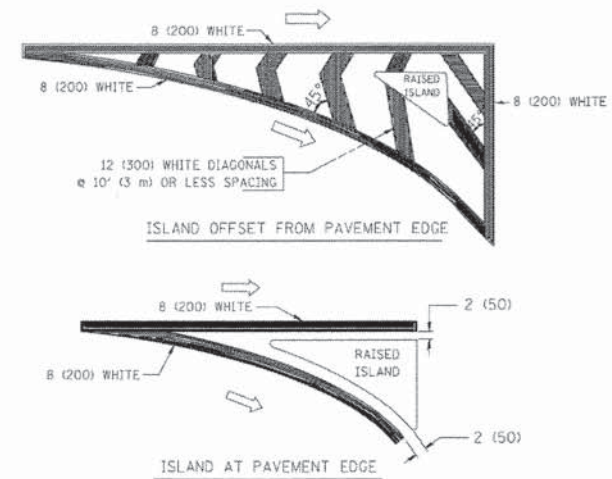
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	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 FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 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" (2.4 m)	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 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° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	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 6" (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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.

COMPANY NAME: MR. GREEN
 PROJECT CONTACT: T. SCOTT CREON, P.E.
 CLIENT: VILLAGE OF HINSDALE
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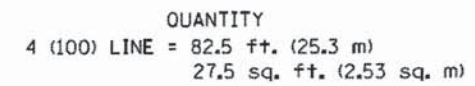
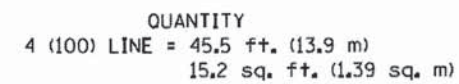
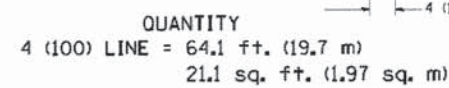
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PLOT DATE = 9/9/2009		DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
 TYPICAL PAVEMENT MARKINGS

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	F.A. . RTE.	SECTION 10-00089-00-BR	COUNTY DUPAGE	TOTAL SHEETS 157	SHEET NO. 136
					TC-13	CONTRACT NO.	61B11	

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



032_def11-fcl6.dgn

HR GREEN
COMPANY NAME:
PROJECT CONTACT: T. SCOTT CREECH, P.E.
CLIENT: VILLAGE OF HINSDALE
PROJECT: 10-00089-00-BR
FILE NAME: 032.dwg
PLOT DRIVER: pdf, vplot
PEN TABLE: standard-trans-screen-topo.tbl



HRGreen.com
Illinois Professional Design Firm
#184-001322

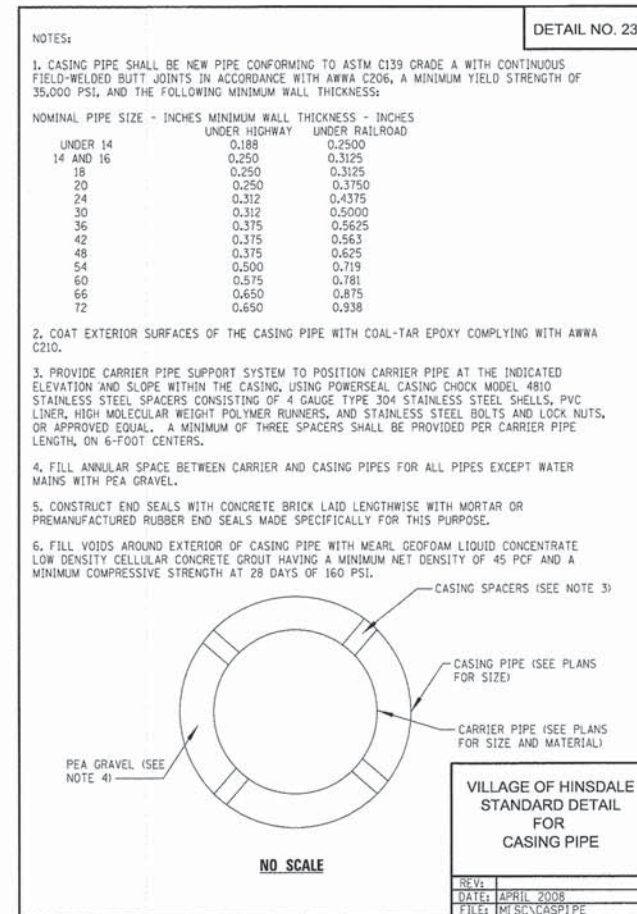
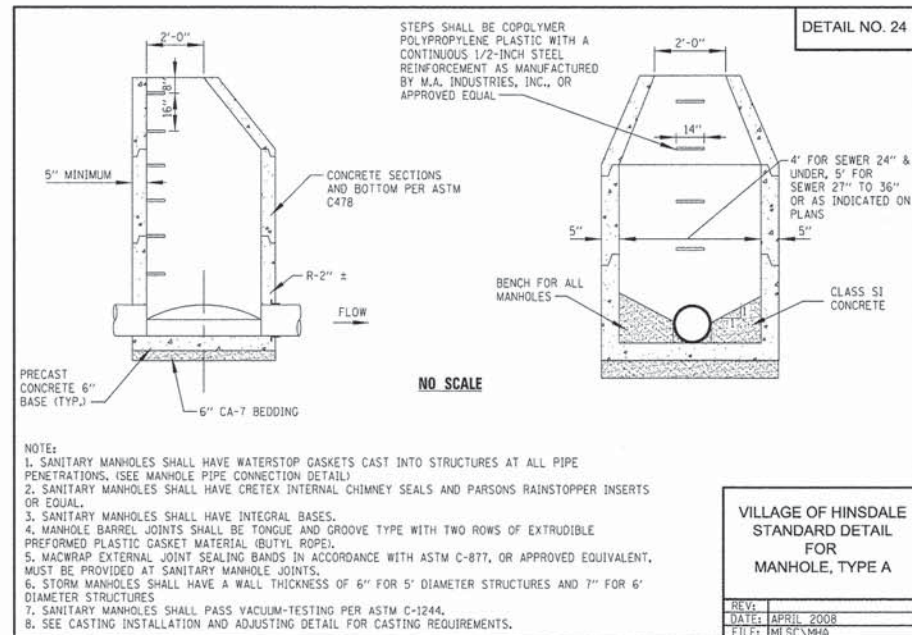
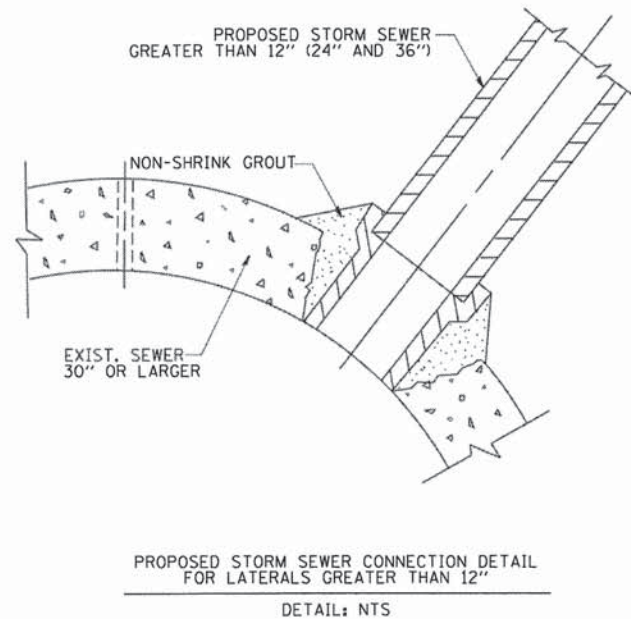
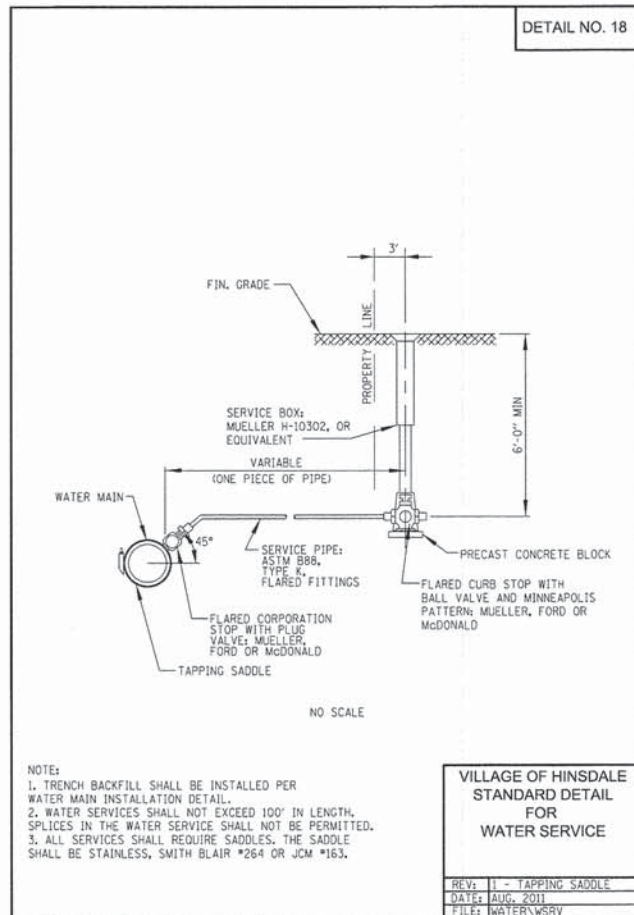
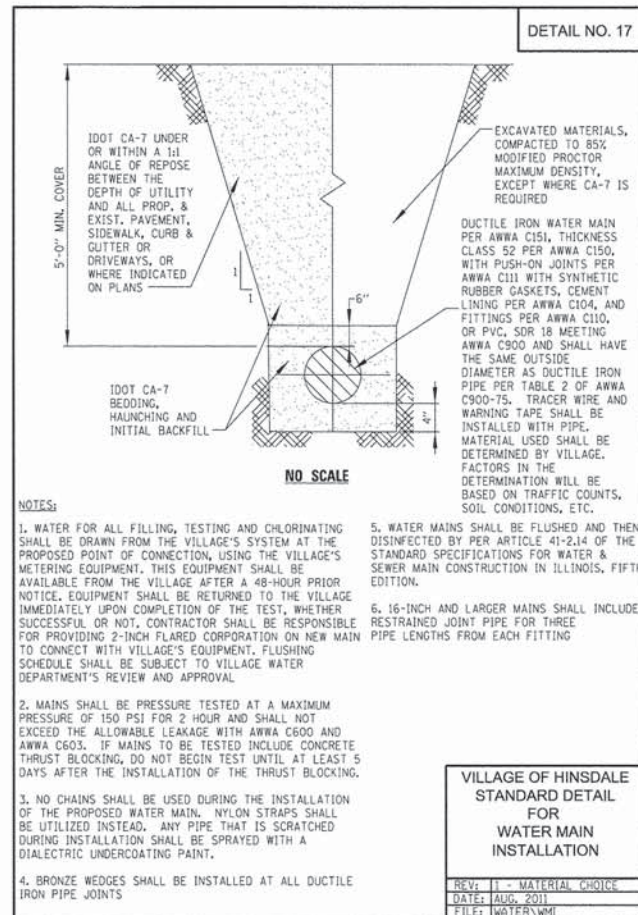
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PLOT DATE = 12/15/2014	CHECKED - RD	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

SCALE: N.T.S. SHEET NO. 14 OF 18 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	139
CONTRACT NO.				61B11
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



COMPANY NAME: HR GREEN
PROJECT CONTACT: T. SCOTT CRECH, P.E.
CLIENT: VILLAGE OF HINSDALE
DATE PLOTTED: 12/11/2014 2:22:28 PM
FILE NAME: 032-06115.dgn
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Illinois Professional Design Firm
194-001322

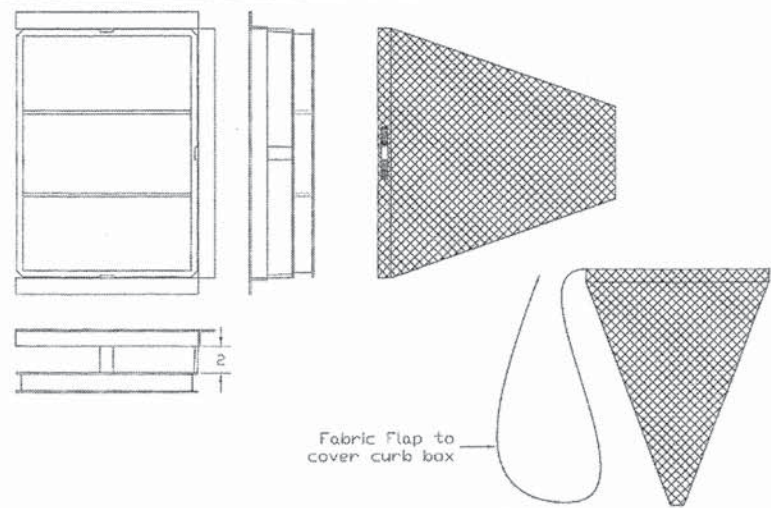
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PLOT DATE = 12/11/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

SCALE: N.T.S. SHEET NO. 16 OF 18 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			61B11	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

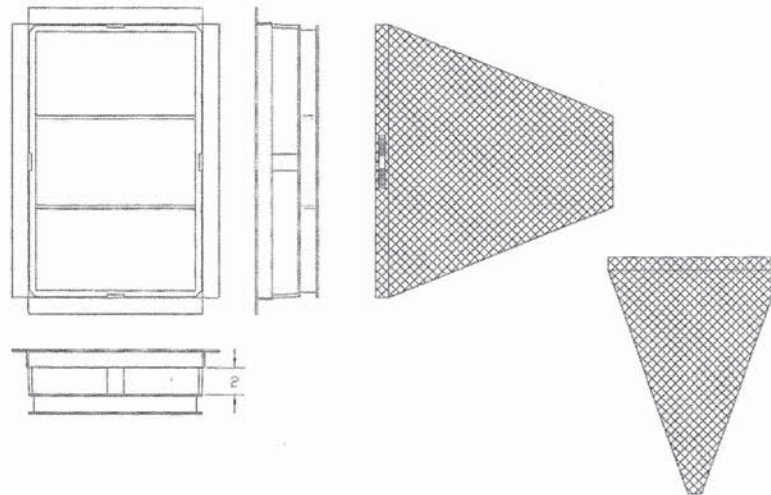


GENERAL NOTES:
FRAME: Top flange fabricated from 1 1/2"x1 1/2"x1/4" angle. Base rim fabricated from 1 1/2"x2 1/2"x1/4" channel. Handles and suspension brackets fabricated from 1 1/2"x1/2" flat stock. All steel conforming to ASTM-A36.
SEDIMENT BAG: Bag fabricated from 4 oz./sqyd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel band and lock.

DATE	REVISIONS
01-11-02	Original
05-07-04	Remove Back Rail

Typical Curb Box

INLET PROTECTION DETAIL

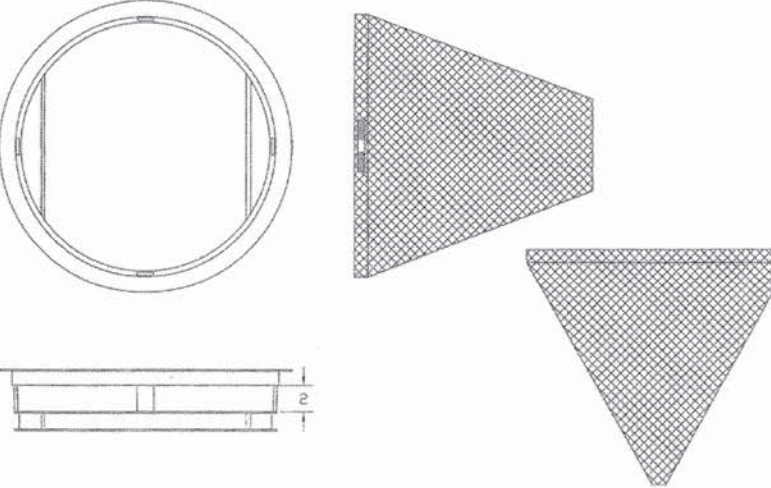


GENERAL NOTES:
FRAME: Top flange fabricated from 1 1/2"x1 1/2"x1/4" angle. Base rim fabricated from 1 1/2"x2 1/2"x1/4" channel. Handles and suspension brackets fabricated from 1 1/2"x1/2" flat stock. All steel conforming to ASTM-A36.
SEDIMENT BAG: Bag fabricated from 4 oz./sqyd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel band and lock.

DATE	REVISIONS
01-22-02	Original

Typical Rectangular

INLET PROTECTION DETAIL

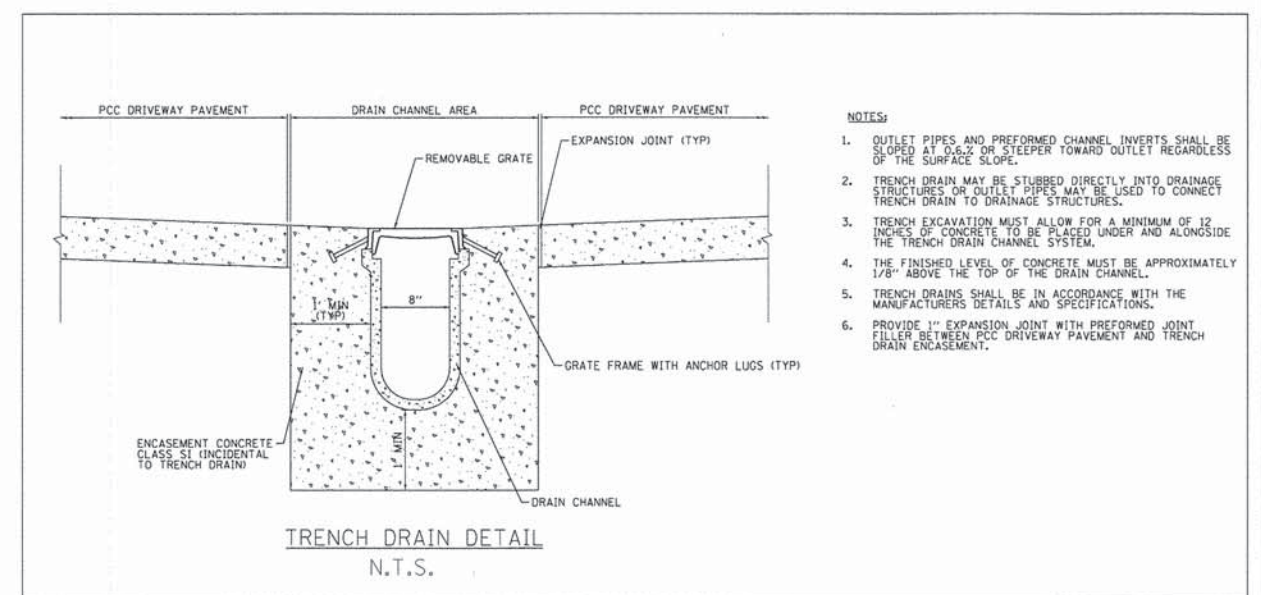
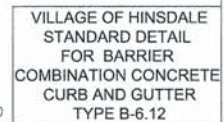
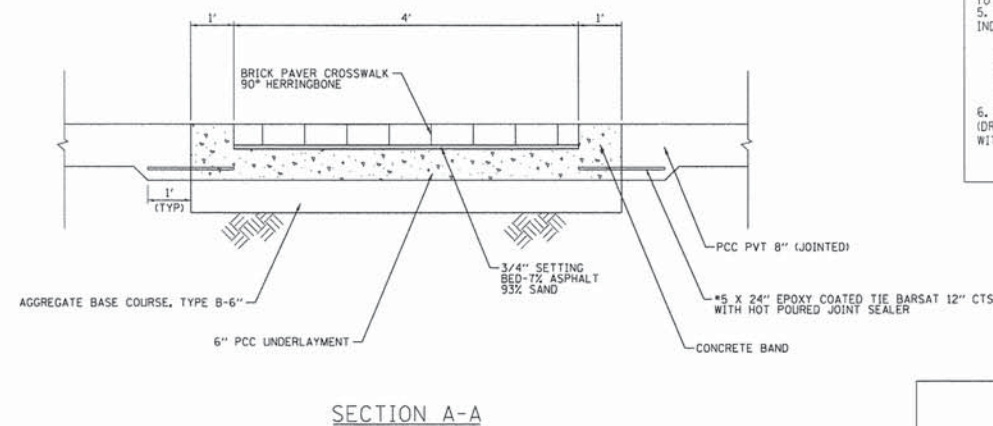


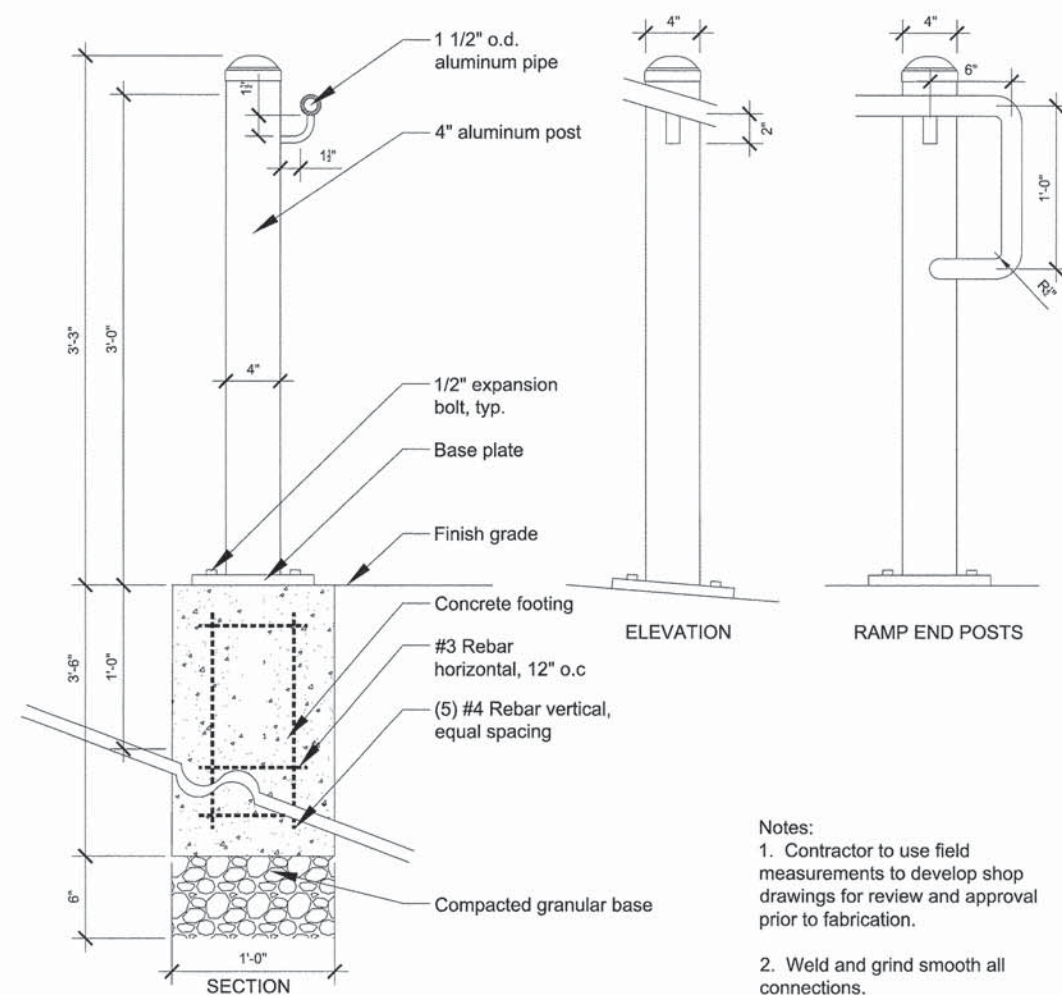
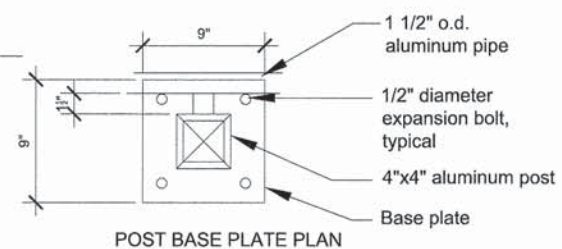
GENERAL NOTES:
FRAME: Top flange fabricated from 1 1/2"x1 1/2"x1/4" angle. Base rim fabricated from 1 1/2"x2 1/2"x1/4" channel. Handles and suspension brackets fabricated from 1 1/2"x1/2" flat stock. All steel conforming to ASTM-A36.
SEDIMENT BAG: Bag fabricated from 4 oz./sqyd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel band and lock.

DATE	REVISIONS
01-11-02	Original

Typical Round

INLET PROTECTION DETAIL



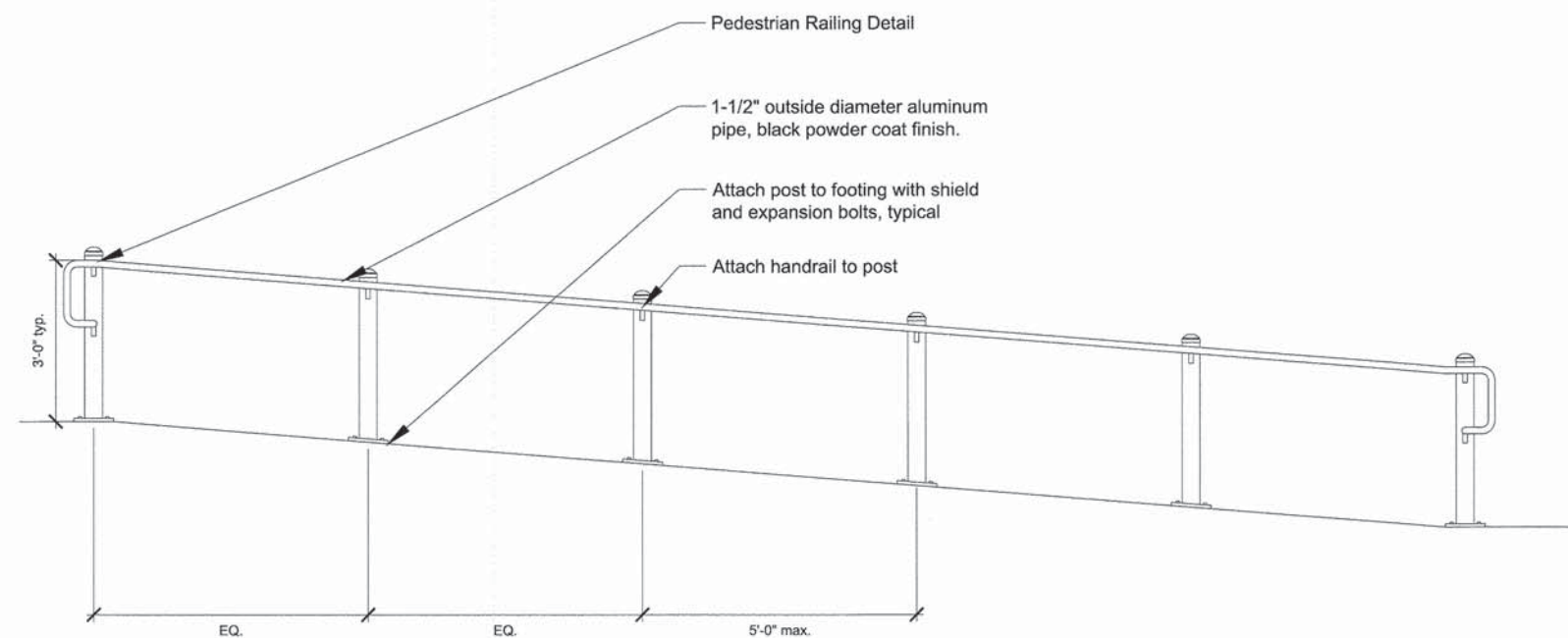


1

Pedestrian Railing

SCALE: NTS

d-handrail-dtl



2

Pedestrian Railing - Elevation

SCALE: NTS

d-handrail-elev

COMPANY NAME: NR GREEN
PROJECT CONTACT: T. SCOTT CRECH, P.E.
CLIENT: VILLAGE OF HINDSDALE
DATE PLOTTED: 11/11/2014 2:22:48 PM
FILE NAME: 032.dwt,dgn
PLOT DRIVER: pdf, vcalit
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Illinois Professional Design Firm

USER NAME = dastancz	DESIGNED - TSC	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RD	REVISED -
PLOT DATE = 12/11/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

SCALE: N.T.S.	SHEET NO. 18 OF 18 SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	143
CONTRACT NO.			61811	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

FINAL	DATE	BY
SURVEYED		
NOTE BOOK		
NO.		

ORIGINAL	DATE	BY
SURVEYED		
NOTE BOOK		
NO.		

USER NAME = dstancoz	DESIGNED - TSC	REVISED -
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PLOT DATE = 12/16/2014	DATE - 12/16/14	REVISED -

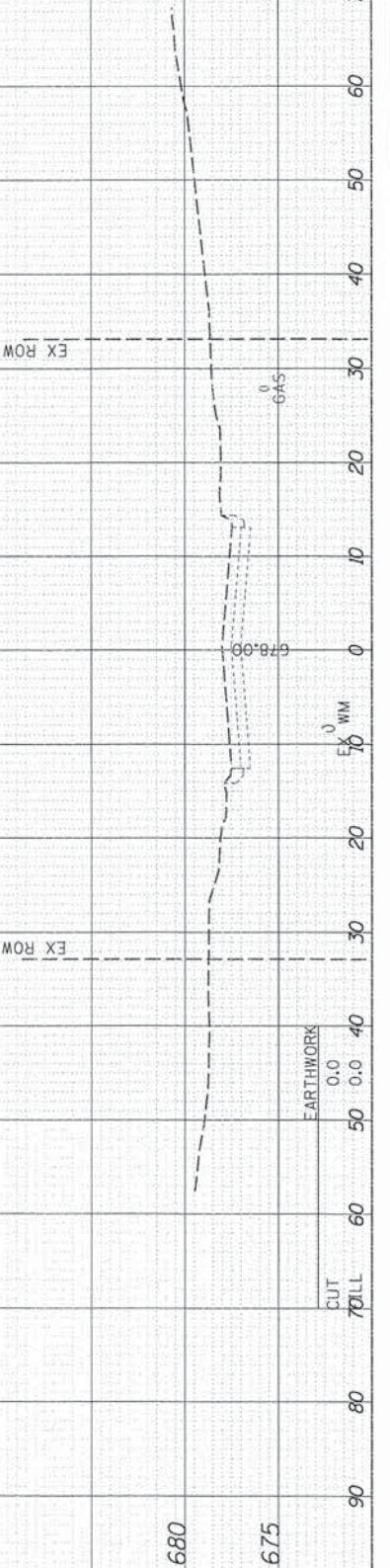
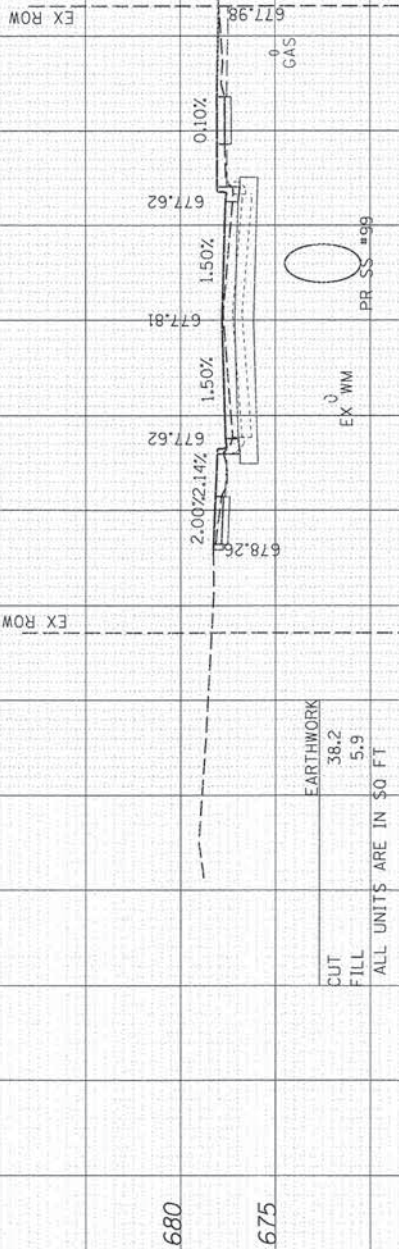
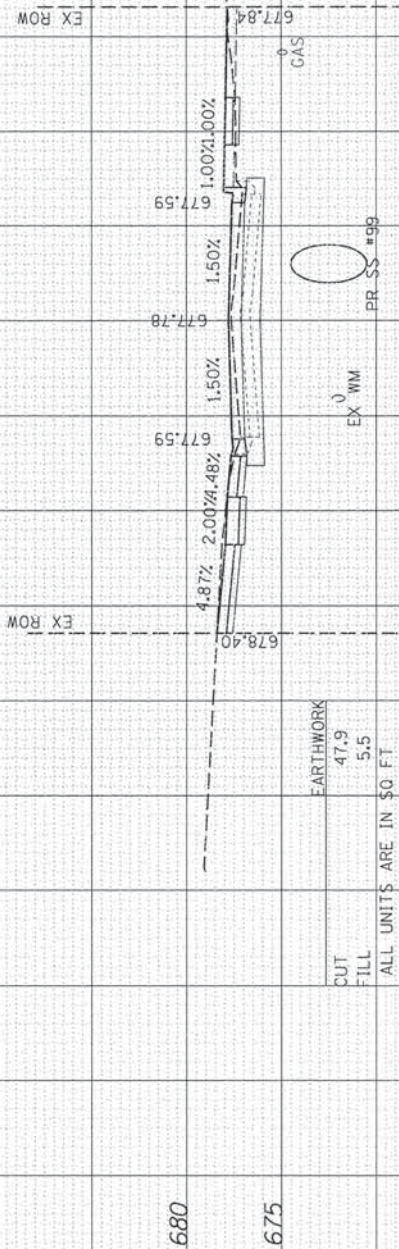
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
OAK STREET

SCALE: 1"=10' SHEET 1 OF 6 SHEETS STA. 10004+25 TO STA.10005+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	144
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SEE CHICAGO AVENUE ROADWAY PROFILE



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

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

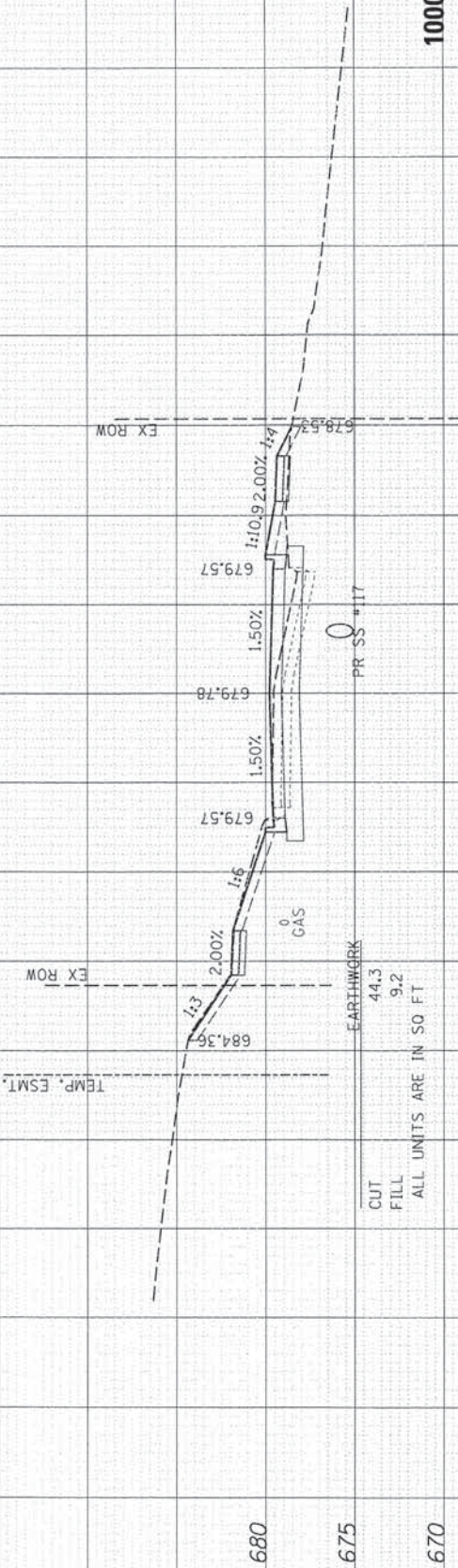
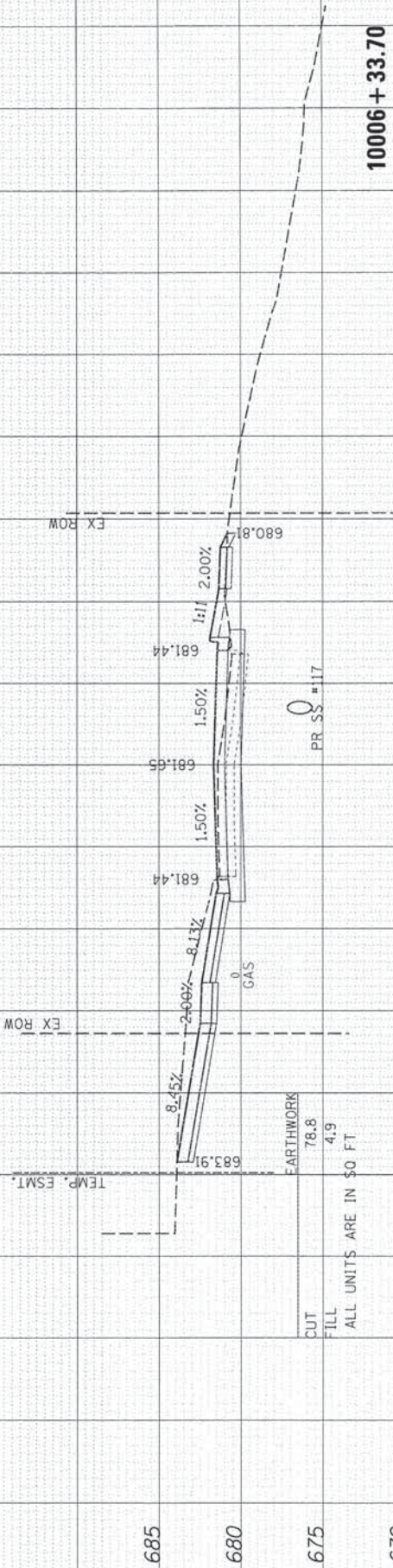
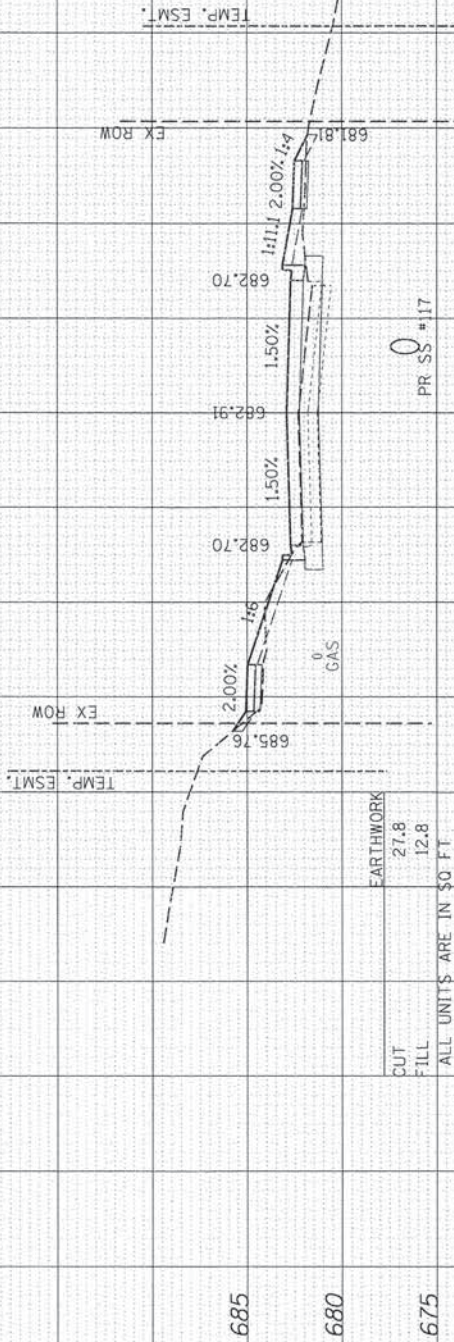
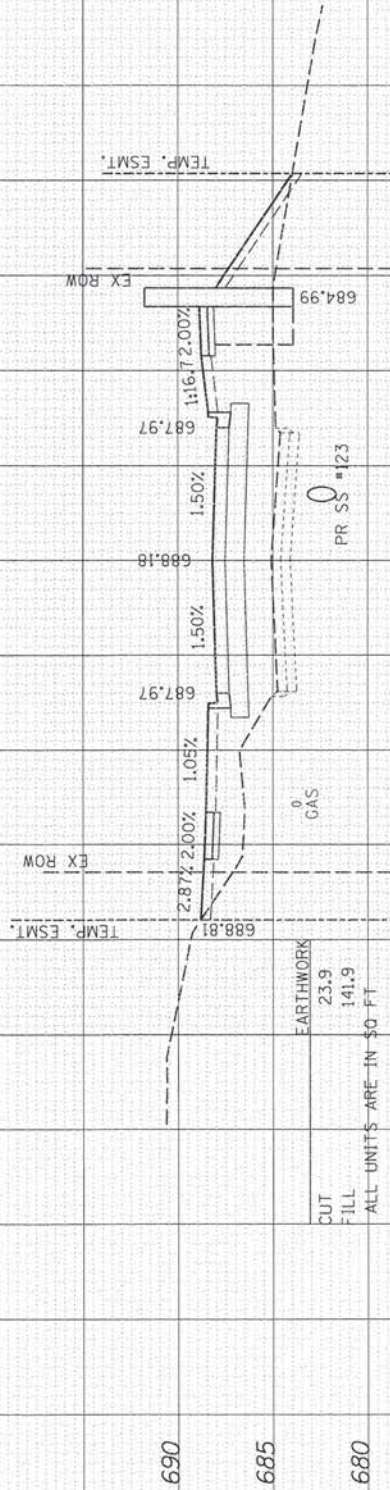
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PLOT SCALE = 1"=10'	CHECKED - RD	REVISED -
PLOT DATE = 12/16/2014	DATE - 12/16/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
OAK STREET

SCALE: 1"=10' SHEET 2 OF 6 SHEETS STA. 10006+00 TO STA.10007+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	145
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



ORIGINAL SURVEY	SURVEYED PLOTTED NOTE BOOK	BY	DATE

ORIGINAL SURVEY	SURVEYED PLOTTED NOTE BOOK	BY	DATE

USER NAME = dstanaz	DESIGNED - TSC	REVISED -
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PLOT DATE = 12/16/2014	DATE - 12/16/14	REVISED -

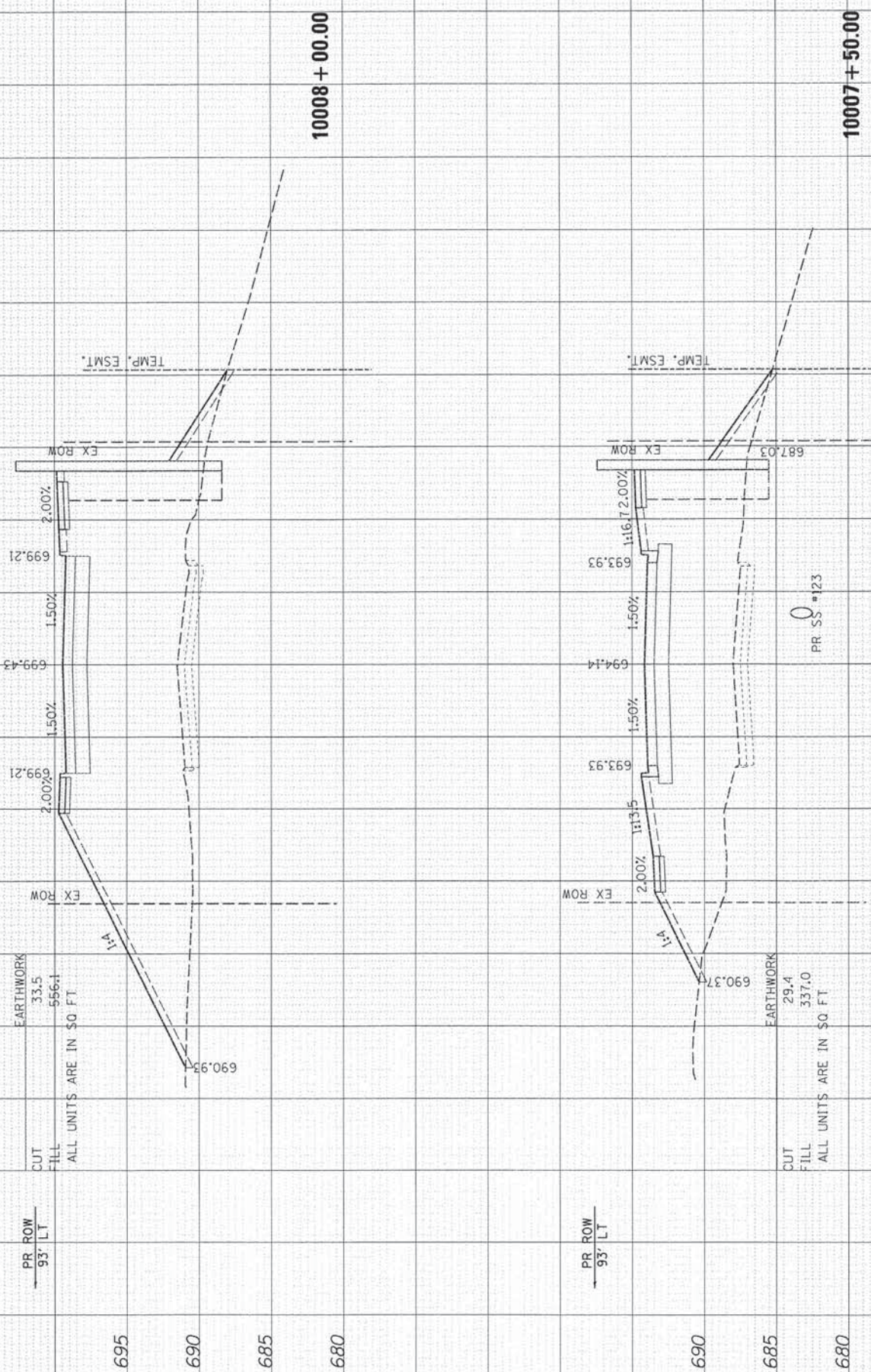
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
OAK STREET

SCALE: 1"=10' SHEET 3 OF 6 SHEETS STA. 10007+50 TO STA.10008+00

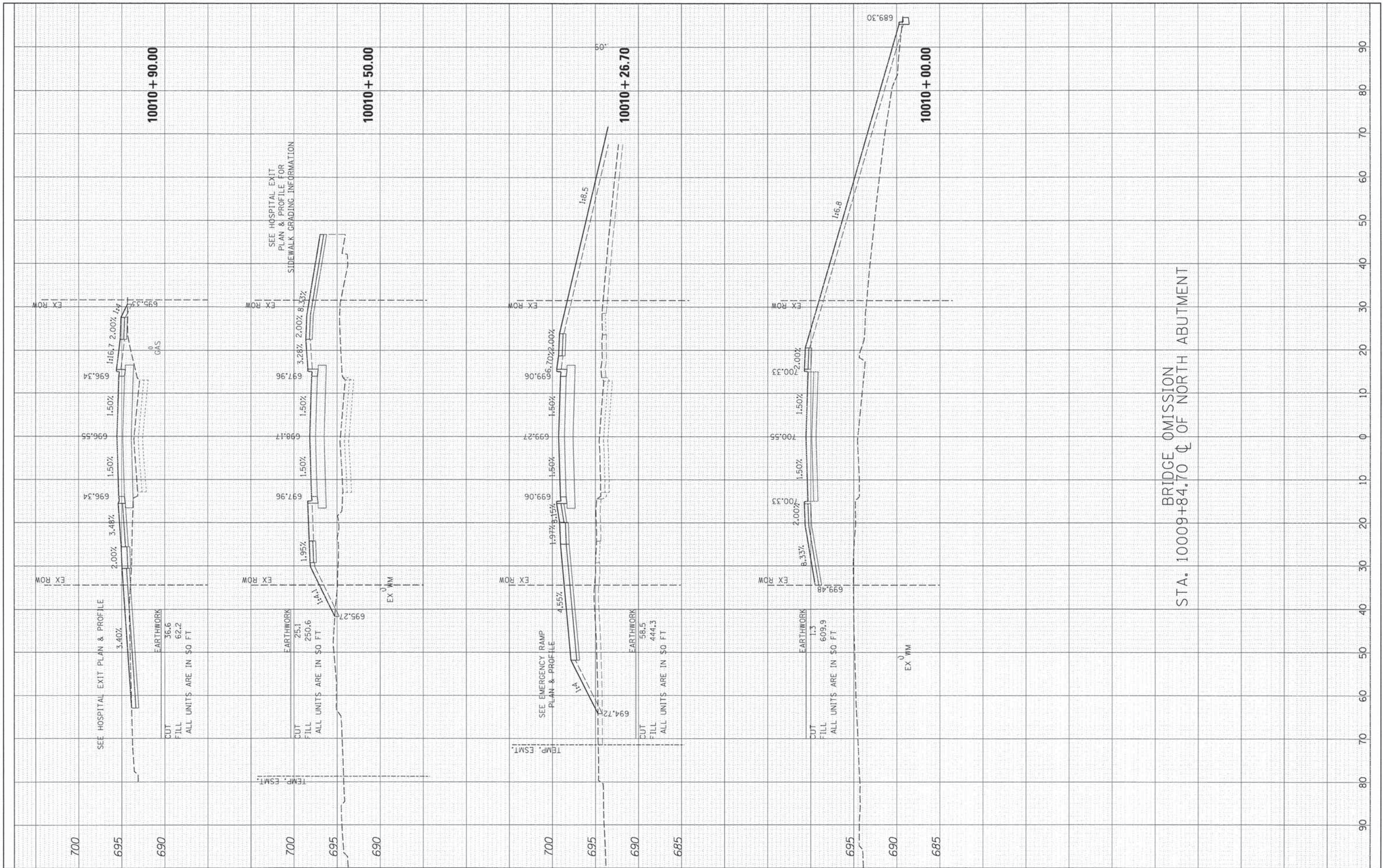
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	146
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

BRIDGE OMISSION
STA. 10008+11.24 CL OF SOUTH ABUTMENT



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

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		
NO. _____			



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PLOT SCALE = 1"=10'	CHECKED - RD
PLOT DATE = 12/16/2014	DATE - 12/16/14

REVISED	-
REVISED	-
REVISED	-
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REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

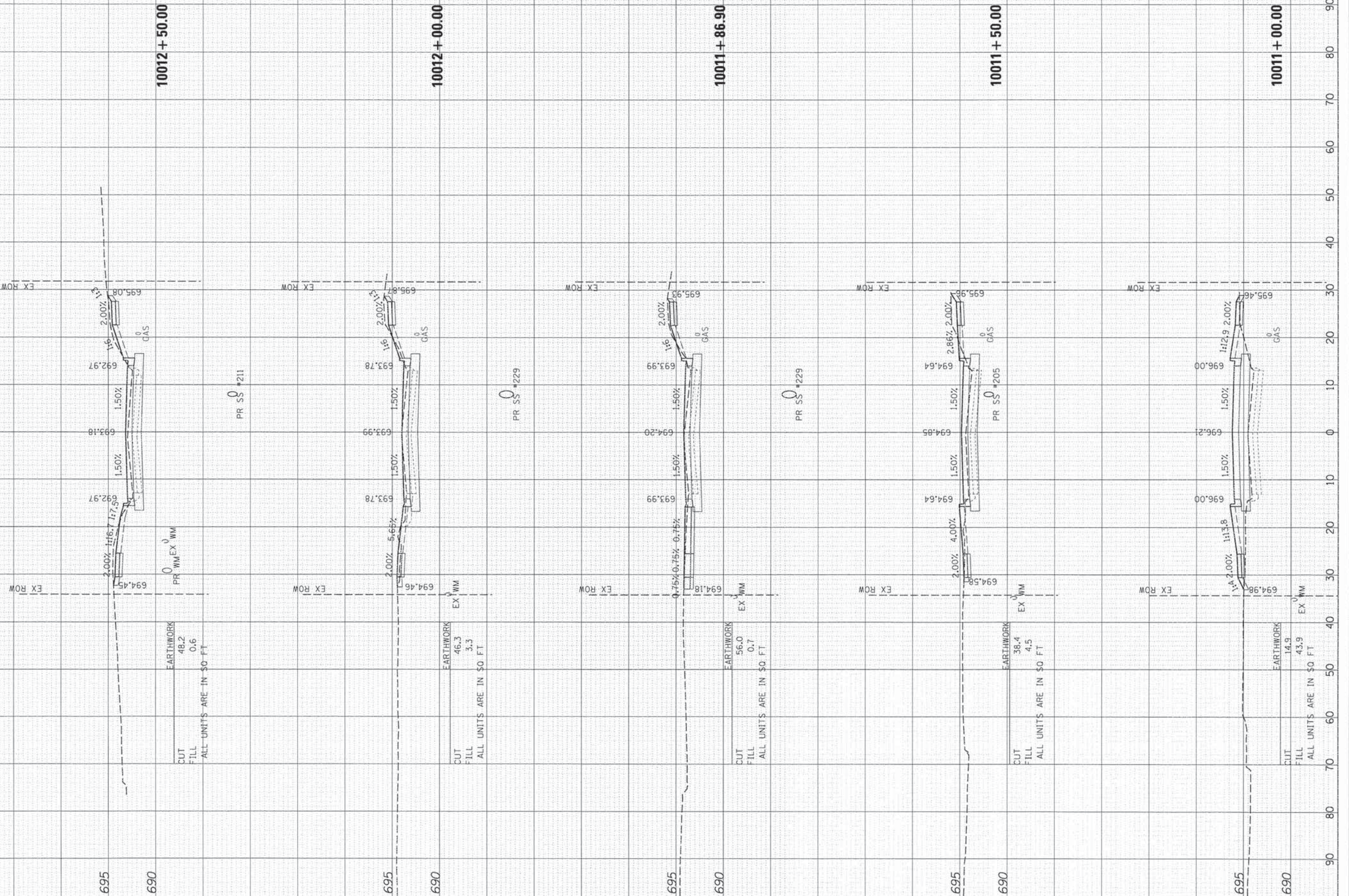
**PROPOSED CROSS SECTIONS
OAK STREET**

SCALE: 1"=10'	SHEET 4 OF 6 SHEETS	STA. 10010+00 TO STA. 10010+63.50
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	147
		CONTRACT NO.		
ILLINOIS		FED. AID PROJECT		

ORIGINAL	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
NO.		

FINAL	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
NO.		



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PLOT SCALE = 1"=10'	CHECKED - RD	REVISED -
PLOT DATE = 12/16/2014	DATE - 12/16/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

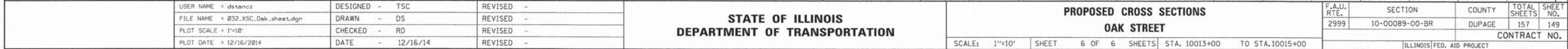
PROPOSED CROSS SECTIONS
OAK STREET

SCALE: 1"=10' SHEET 5 OF 6 SHEETS STA. 10011+00 TO STA. 10012+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	148
CONTRACT NO.				

ILLINOIS FED. AID PROJECT

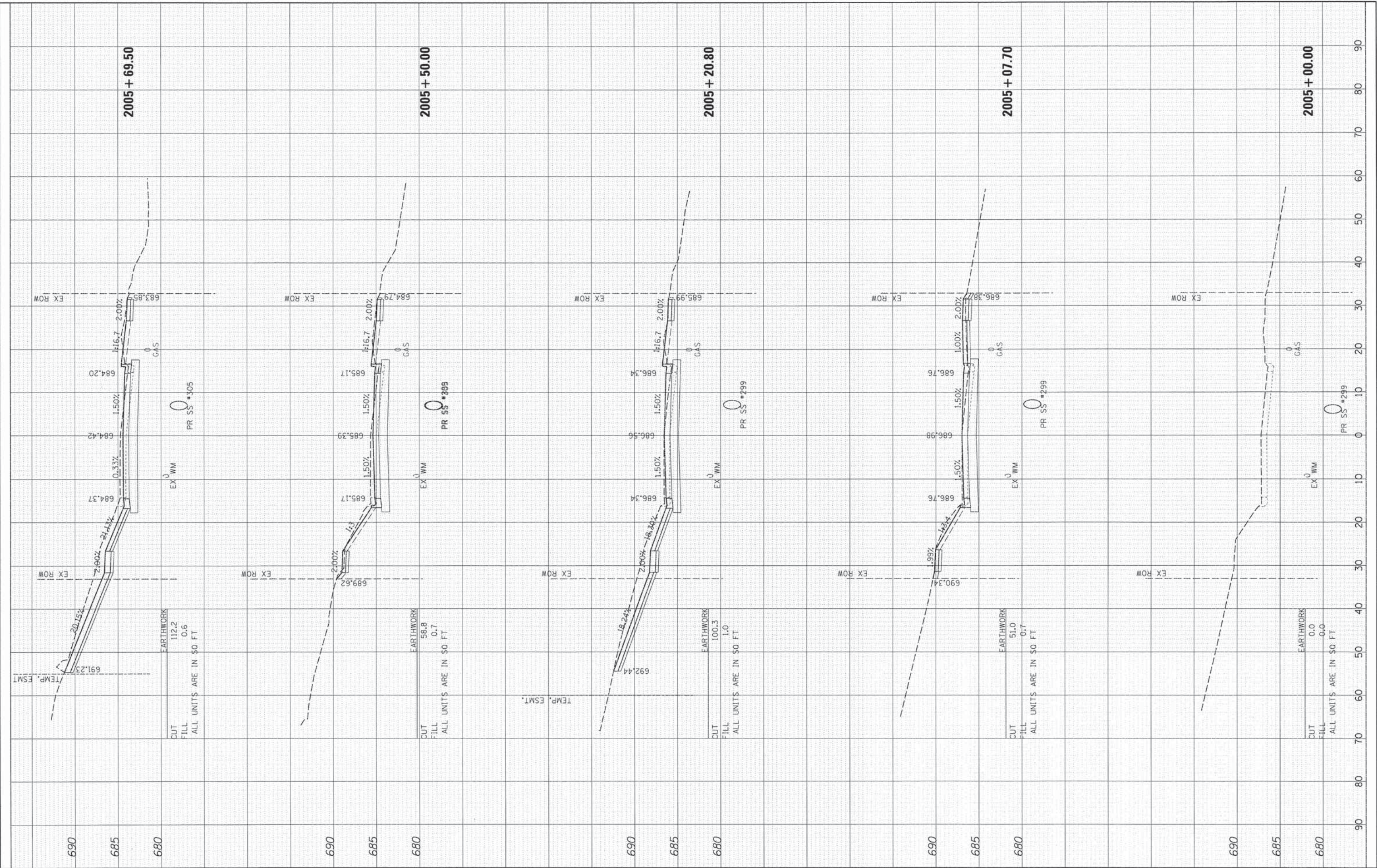
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	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		
NOTE BOOK			
NO. _____			



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	149
			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

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

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



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PLOT SCALE = 1"=10'	CHECKED - RD	REVISED -
PLOT DATE = 12/16/2014	DATE - 12/16/14	REVISED -

DESIGNED - TSC	REVISED -
DRAWN - DS	REVISED -
CHECKED - RD	REVISED -
DATE - 12/16/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
CHICAGO AVENUE

SCALE: 1"=10' SHEET 1 OF 3 SHEETS STA. 2005+00 TO STA. 2005+69.50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	150
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY		BY	DATE
SURVEYED			
PLOTTED			
TEMPLATE			
AREAS			
NO. _____			
CHECKED _____			

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PLOT DATE = 12/16/2014	DATE - 12/16/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

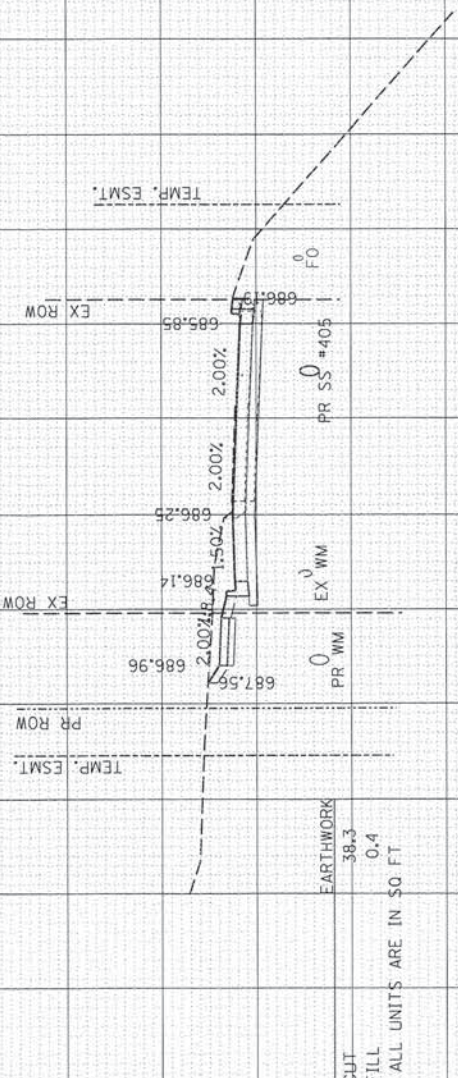
PROPOSED CROSS SECTIONS CHICAGO AVENUE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	152
			CONTRACT NO.	
ILLINOIS		FED. AID PROJECT		

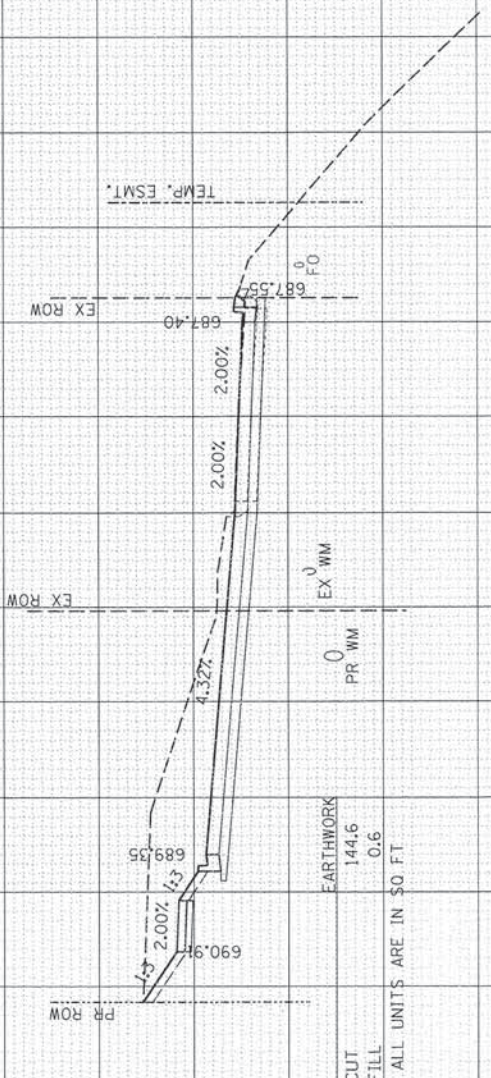
FINAL	DATE
SURVEY	BY
PLOTTED	DATE
NOTE BOOK	NO.
AREAS CHECKED	

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

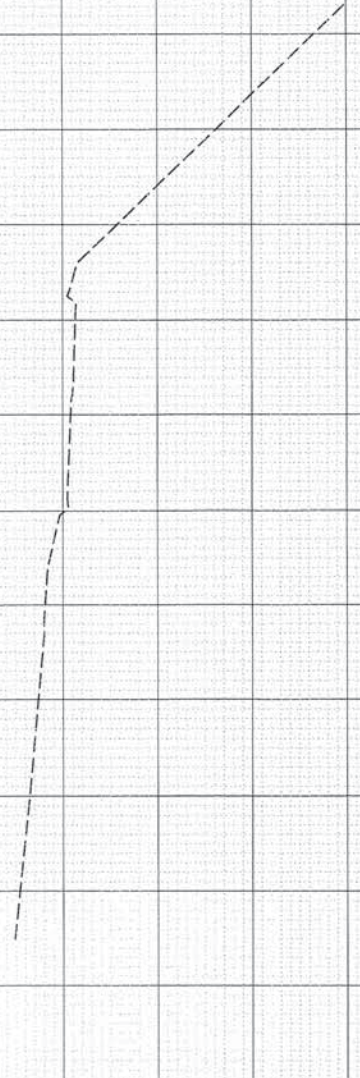
4101 + 00.00



4100 + 50.00



4100 + 00.00



USER NAME = dstanaz	DESIGNED - TSC	REVISED -
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PLOT SCALE = 1"=10'	CHECKED - RD	REVISED -
PLOT DATE = 12/16/2014	DATE - 12/16/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
HILLGROVE AVENUE

SCALE: 1"=10' SHEET 1 OF 5 SHEETS STA. 4100+00 TO STA. 4101+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	153
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL	SURVEY	BY	DATE
NOTE BOOK	TEMP.		
NO.	AREAS CHECKED		

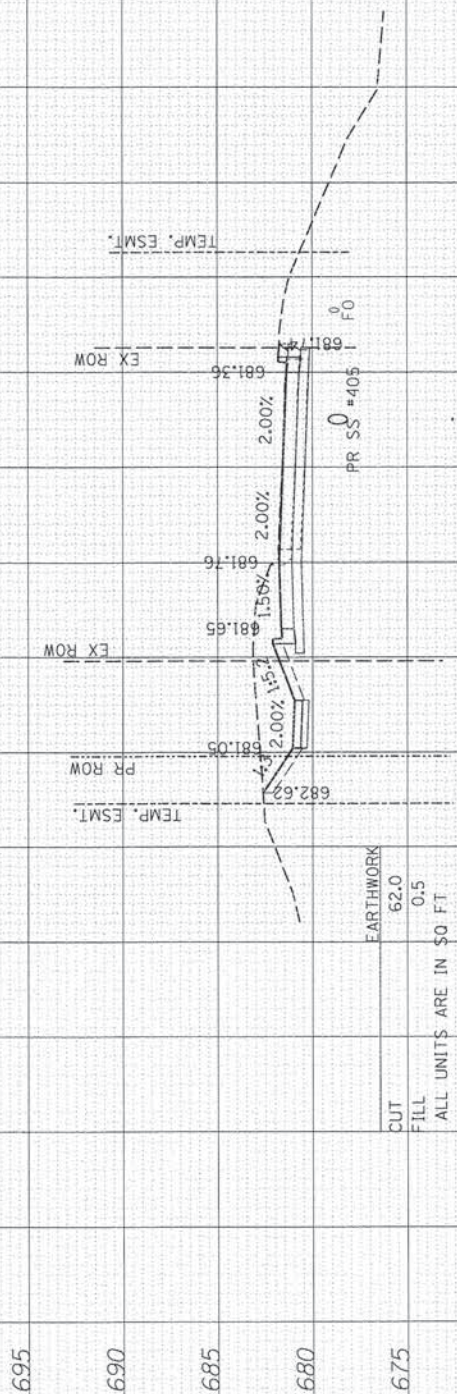
ORIGINAL	SURVEY	BY	DATE
NOTE BOOK	TEMP.		
NO.	AREAS CHECKED		

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PLOT DATE = 12/16/2014	DATE = 12/16/14	REVISED =

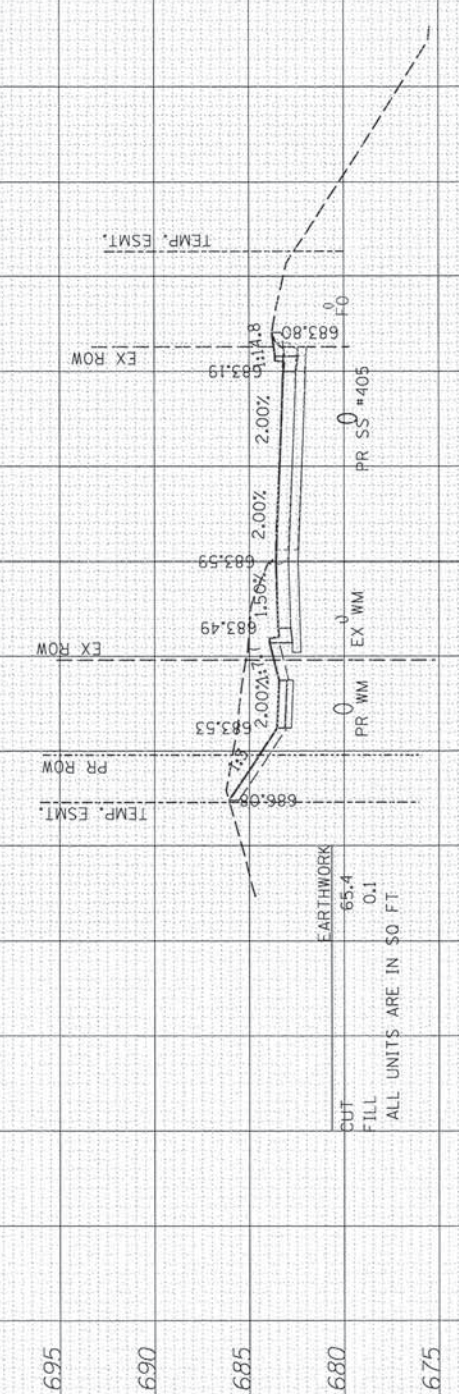
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS HILLGROVE AVENUE			
SCALE: 1"=10'	SHEET 2 OF 5 SHEETS	STA. 4101+50 TO STA.4102+50	

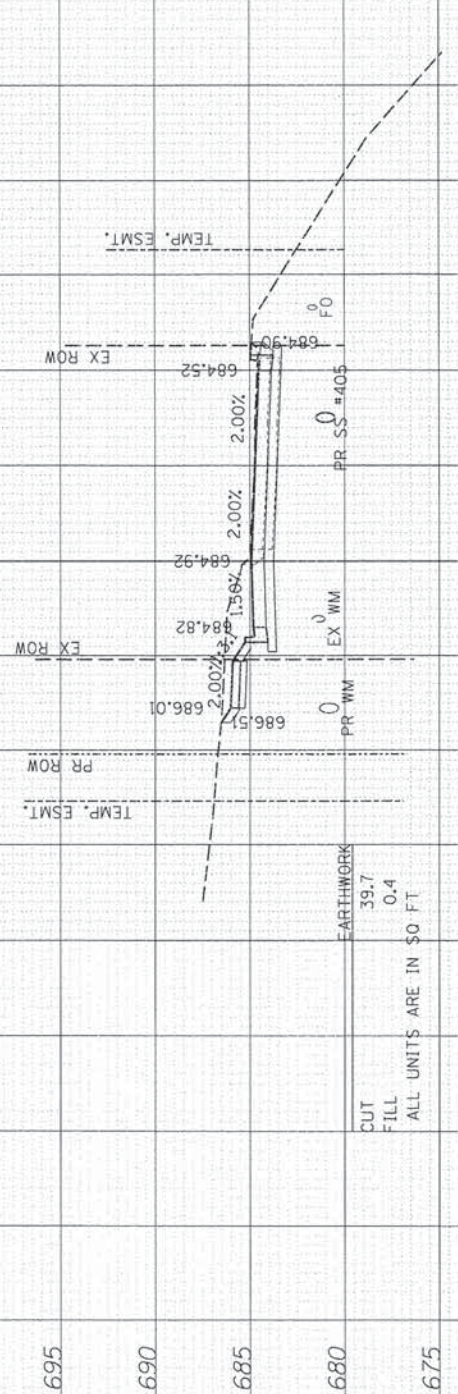
F.A.U. RTE. 2999	SECTION 10-00089-00-BR	COUNTY DUPAGE	TOTAL SHEETS 157	SHEET NO. 154
CONTRACT NO. [ILLINOIS] FED. AID PROJECT				



4102 + 50.00



4102 + 00.00



4101 + 50.00

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

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

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PLOT DATE = 12/16/2014

DESIGNED - TSC
DRAWN - DS
CHECKED - RD
DATE - 12/16/14

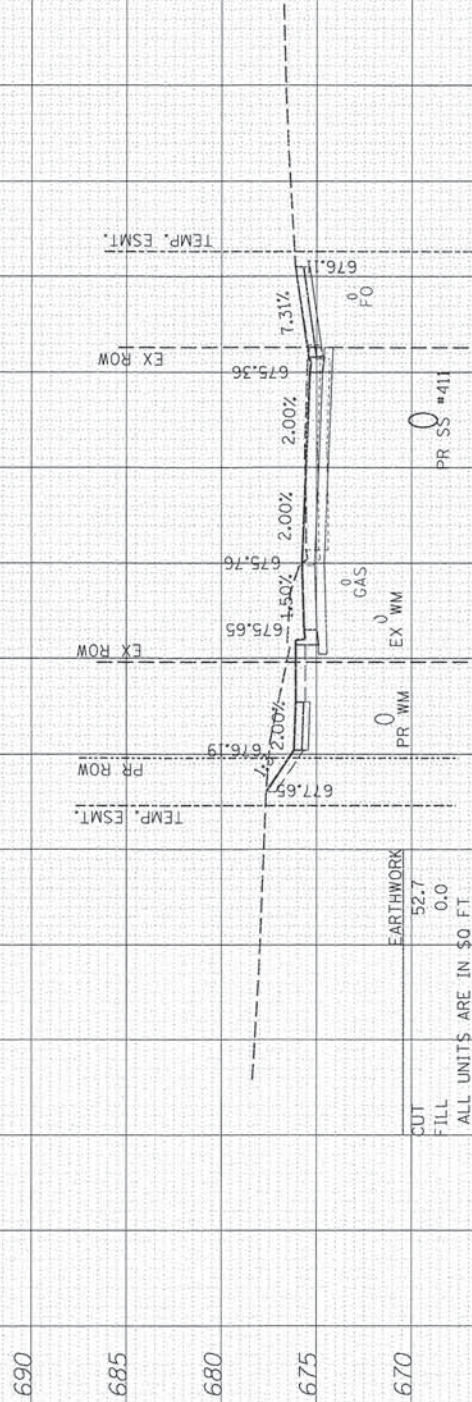
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
HILLGROVE AVENUE

SCALE: 1"=10' SHEET 3 OF 5 SHEETS STA. 4102+72.36 TO STA. 4103+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	155
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



4103 + 50.00



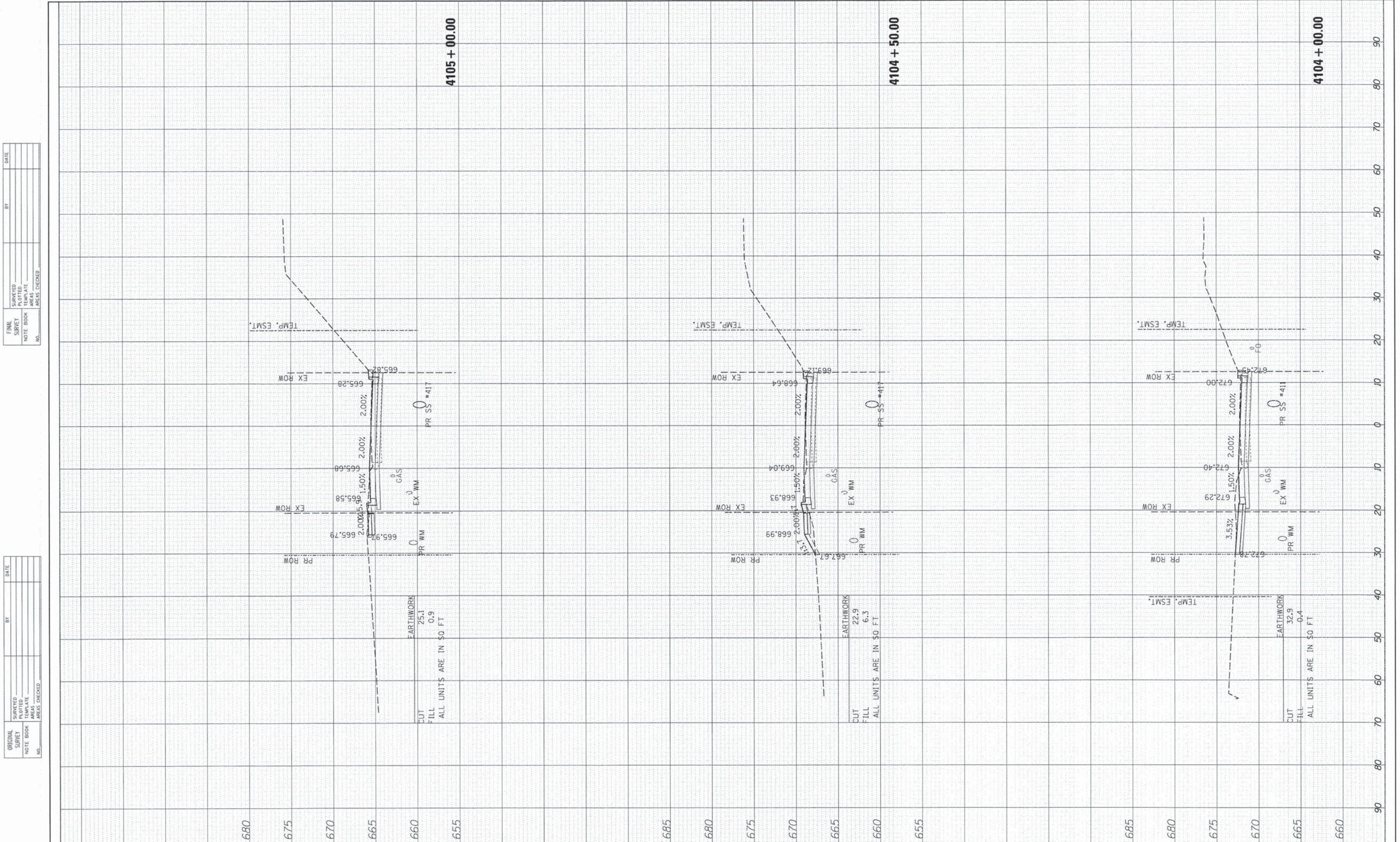
4103 + 00.00



4102 + 72.36

FINAL	SURVEYED	BY	DATE
NO.	NOTE BOOK		
	TEMP.		
	ESMT.		

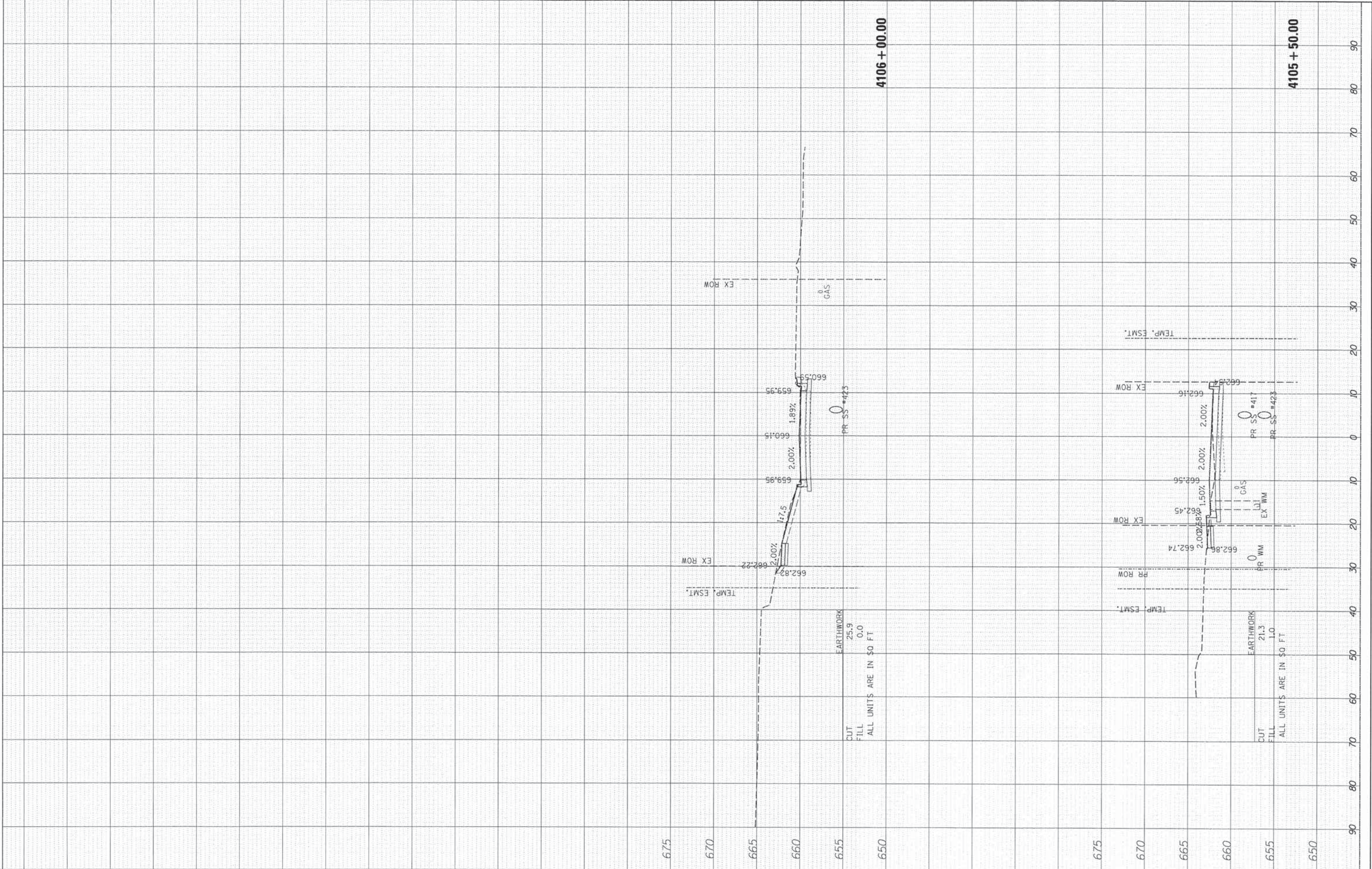
ORIGINAL	SURVEYED	BY	DATE
NO.	NOTE BOOK		
	TEMP.		
	ESMT.		



USER NAME = dstanez	DESIGNED - TSC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE NAME = 032.XSC.sht.Hillgrove.dgn	DRAWN - DS	REVISED -		HILLGROVE AVENUE				2999	10-00089-00-BR	DUPAGE	157	156
PLOT SCALE = 1"=10'	CHECKED - RD	REVISED -						CONTRACT NO.				
PLOT DATE = 12/16/2014	DATE - 12/16/14	REVISED -										
				SCALE: 1"=10' SHEET 4 OF 5 SHEETS STA. 4104+00 TO STA. 4105+00				ILLINOIS FED. AID PROJECT				

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

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



USER NAME = dstancoz	DESIGNED - TSC	REVISED -
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PLOT SCALE = 1"=10'	CHECKED - RD	REVISED -
PLOT DATE = 12/16/14	DATE - 12/16/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS HILLGROVE AVENUE			
SCALE: 1"=10'	SHEET 5 OF 5	SHEETS	STA. 4105+50 TO STA. 4106+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-00089-00-BR	DUPAGE	157	157
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				