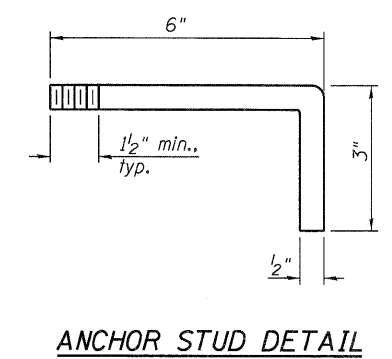
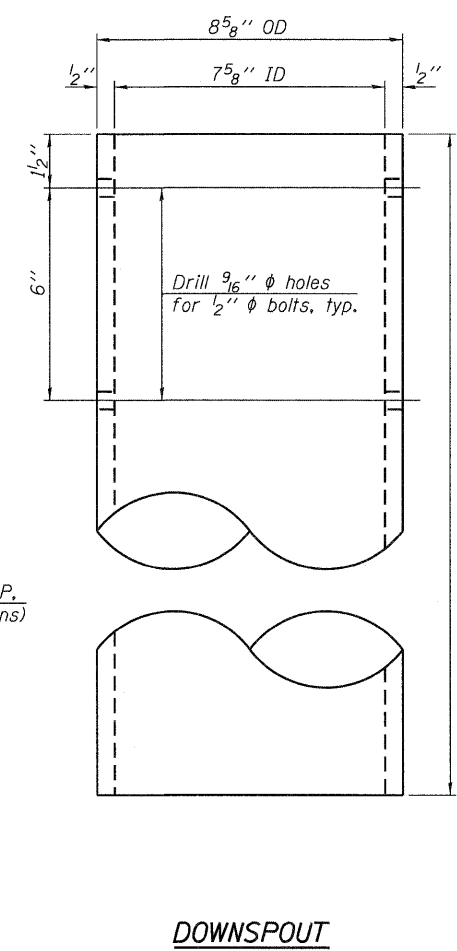
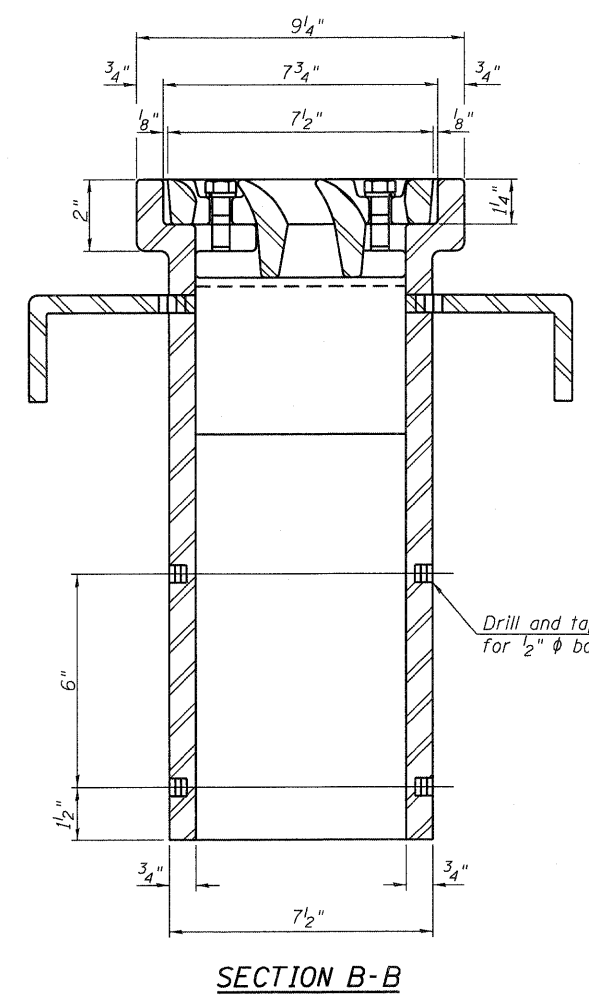
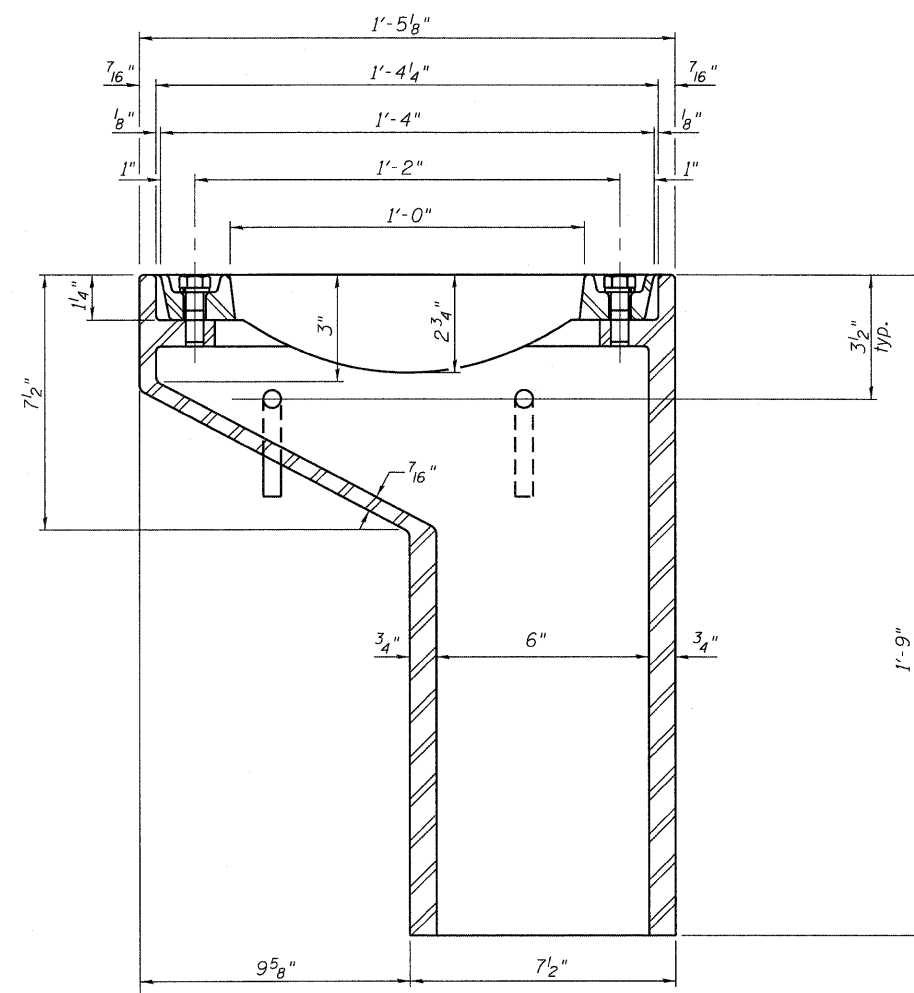
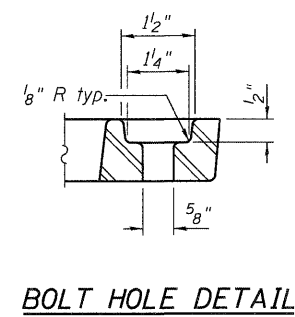
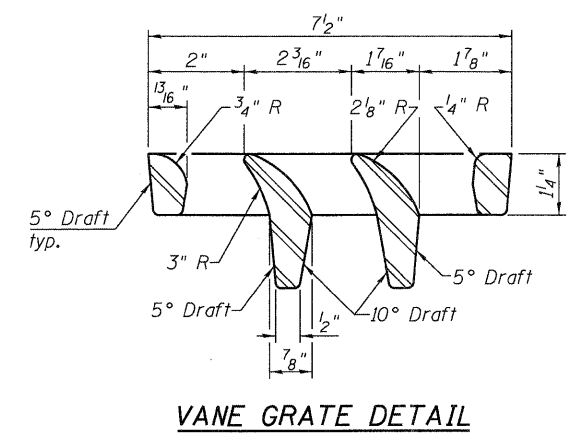
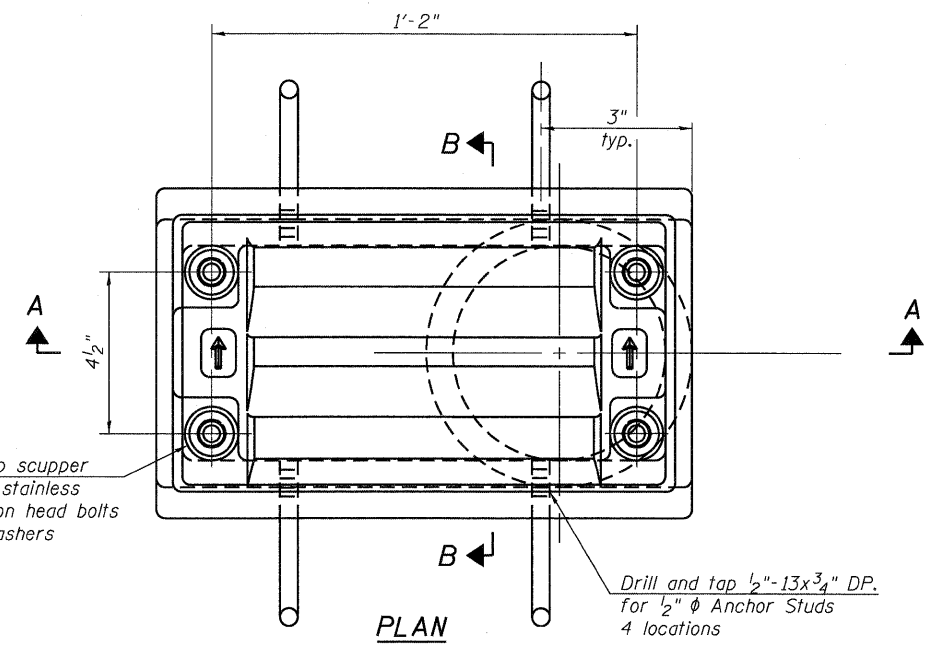


Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.
 Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	4

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 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

DS-11

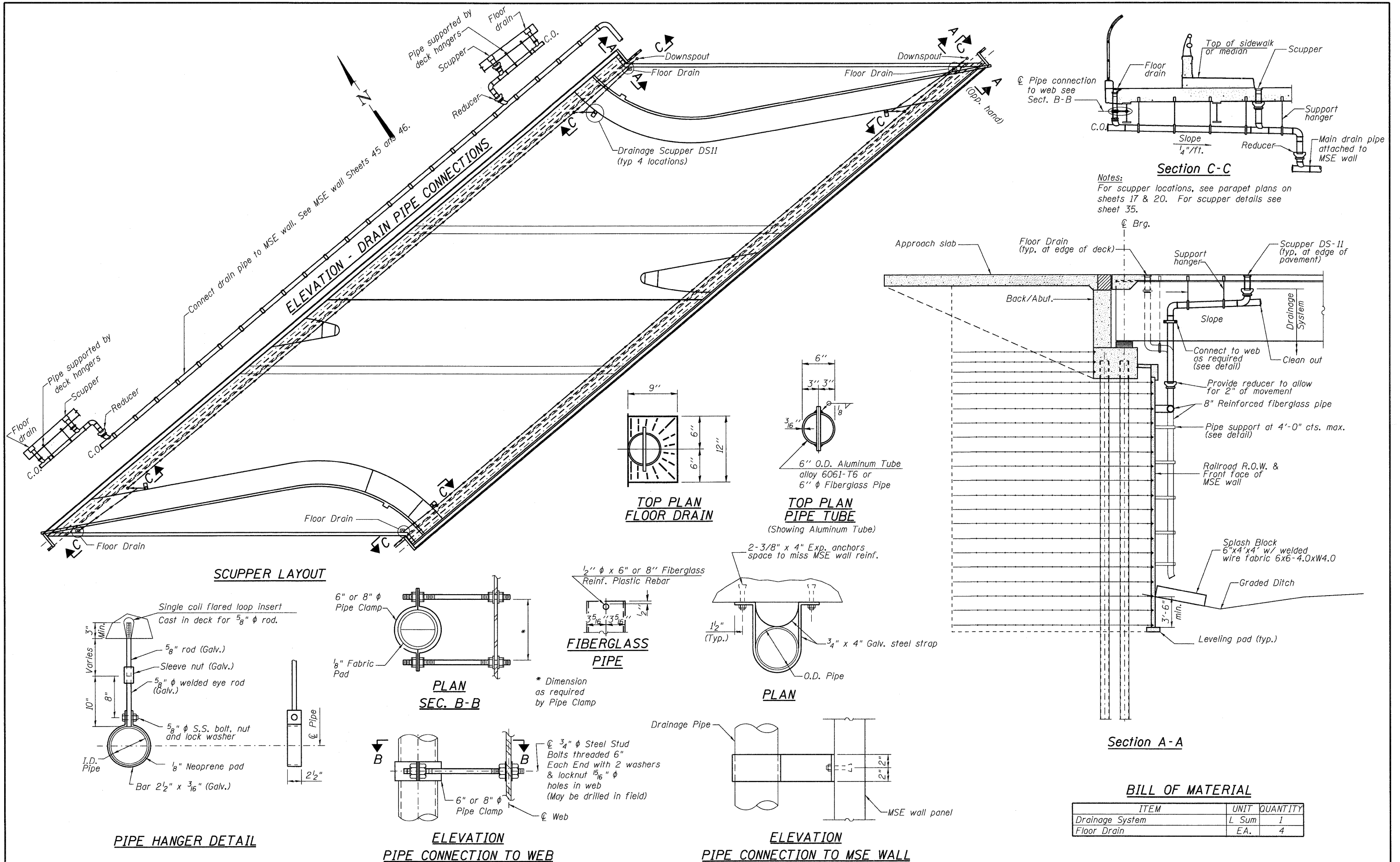
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PLOT DATE = 3/20/2012			

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-11
 STRUCTURE NO. 045-0079
 SHEET NO. 35 OF 67 SHEETS

F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 201
				CONTRACT NO. 60122
ILLINOIS FED. AID PROJECT				



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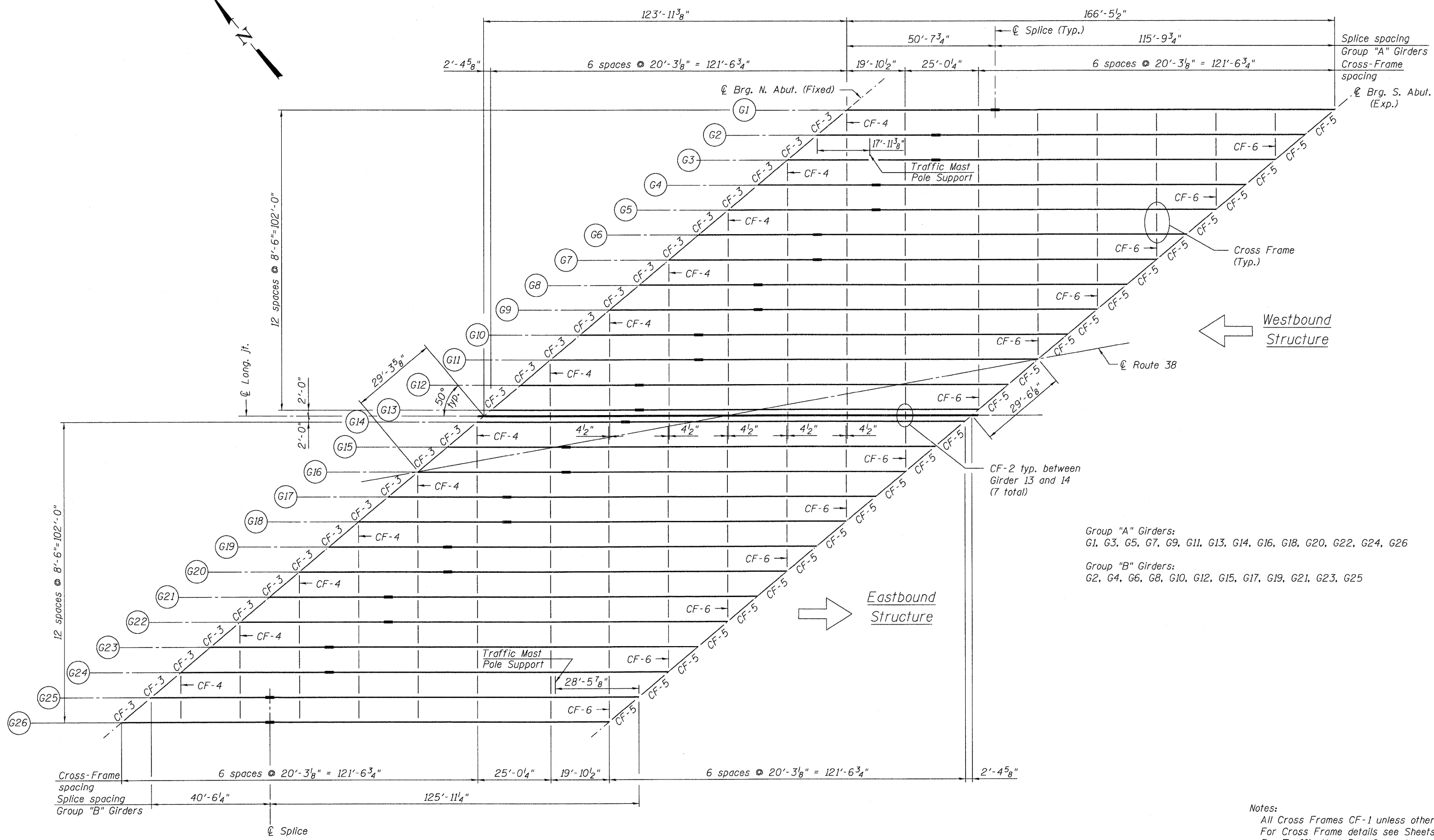
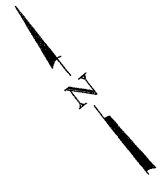
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		CHECKED - GEK	REVISED -

DESIGNED - JCE	REVISED -
CHECKED - GEK	REVISED -
DRAWN - JCE	REVISED -
CHECKED - GEK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
STRUCTURE NO. 045-0079
SHEET NO. 36 OF 67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	LY (HB & VB)	DUPAGE/KANE	421	202
CONTRACT NO. 60122			ILLINOIS FED. AID PROJECT	



Group "A" Girders:
G1, G3, G5, G7, G9, G11, G13, G14, G16, G18, G20, G22, G24, G26

Group "B" Girders:
G2, G4, G6, G8, G10, G12, G15, G17, G19, G21, G23, G25

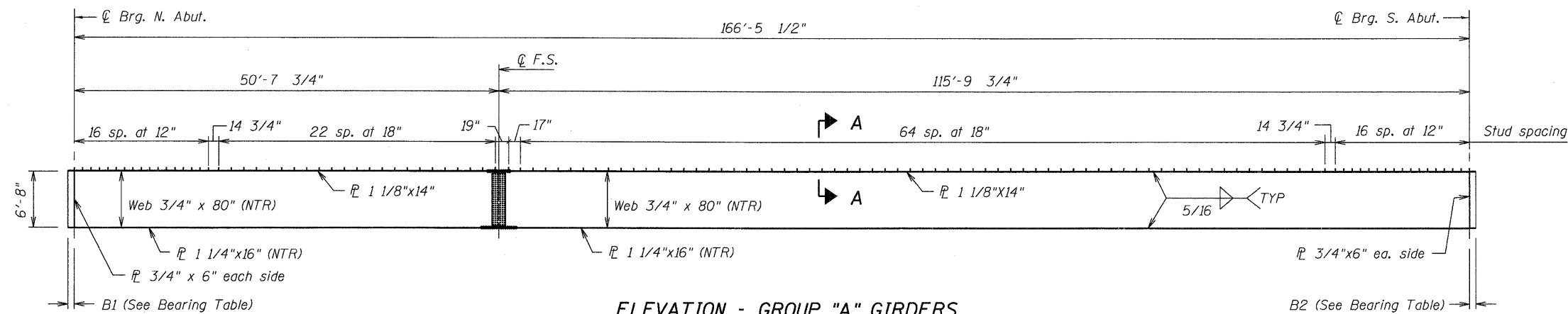
Notes:
All Cross Frames CF-1 unless otherwise noted.
For Cross Frame details see Sheets 39 and 40.
For Traffic Mast Pole Support see Sheet 41.

PLAN

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Engineers / Architects
130 East Randolph Street, Chicago, Illinois 60601

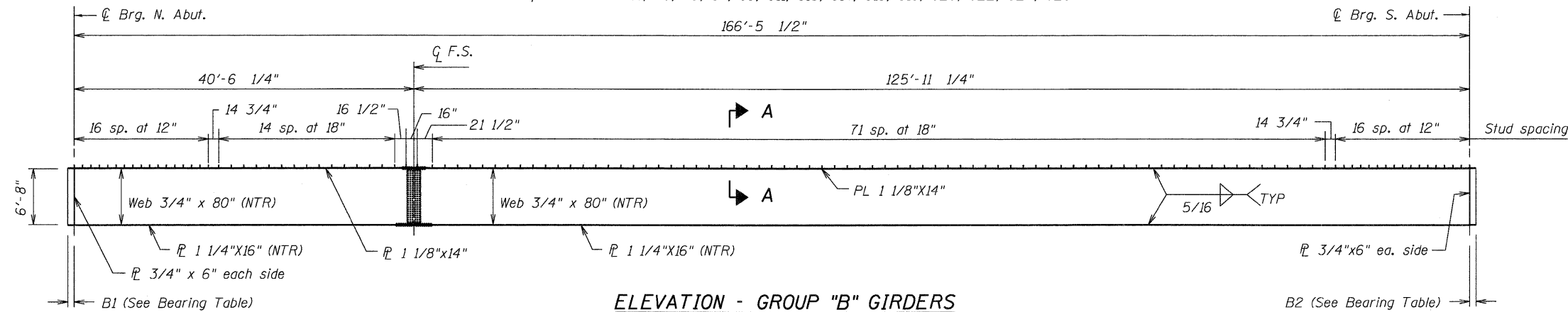
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PLOT DATE = 3/28/2012	CHECKED - KJH	REVISD -									
SHEET NO. 37 OF 67 SHEETS						CONTRACT NO. 60122					

ILLINOIS FED. AID PROJECT



ELEVATION - GROUP "A" GIRDERS

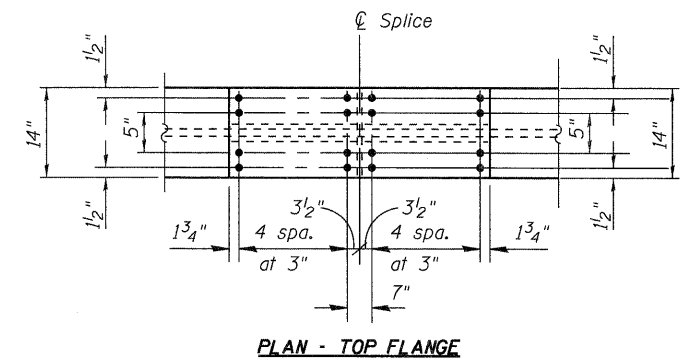
Group A Girders: G1, G3, G5, G7, G9, G11, G13, G14, G16, G18, G20, G22, G24, G26



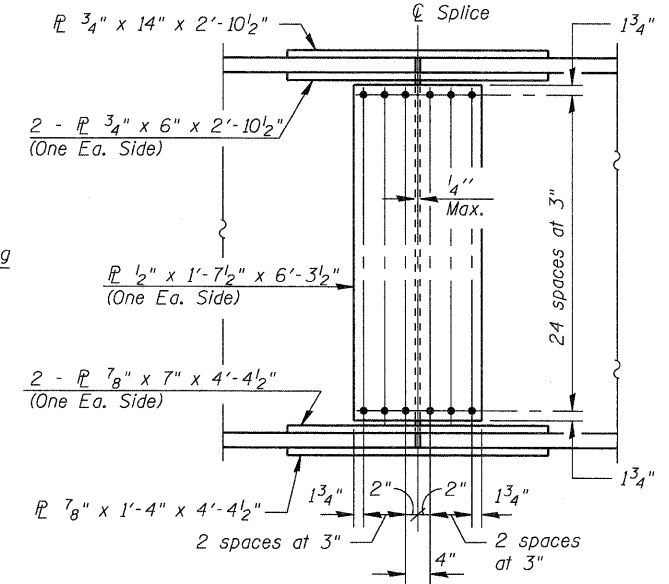
ELEVATION - GROUP "B" GIRDERS

Group B Girders: G2, G4, G6, G8, G10, G12, G15, G17, G19, G21, G23, G25

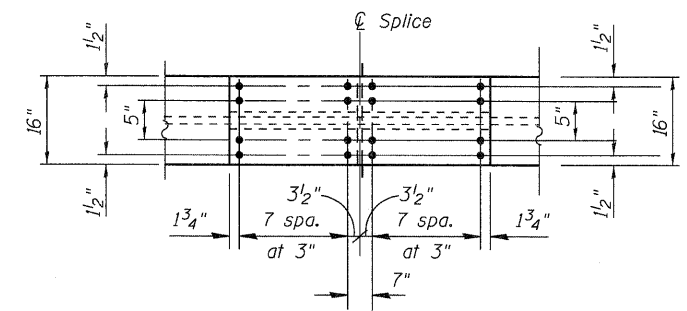
"NTR" denotes plates to which notch toughness requirements are applicable.



PLAN - TOP FLANGE



ELEVATION



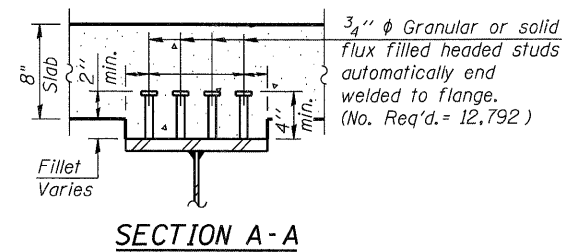
PLAN - BOTTOM FLANGE

FIELD SPLICE DETAILS

Notes:
 All structural steel shall be AASHTO M270 Grade 50W.
 NTR indicates Notch Toughness Requirements.
 All splice plates shall comply with N.T.R.
 Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

BEARING TABLE

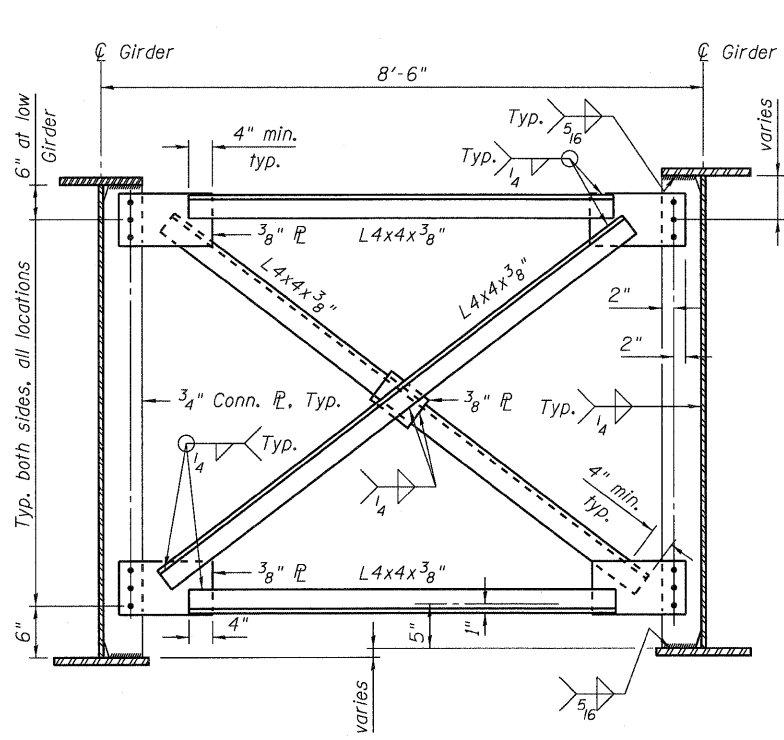
GIRDER	NORTH ABUTMENT BEARINGS		SOUTH ABUTMENT BEARINGS	
	TYPE	B1	TYPE	B2
G1	Elastomeric Type I	9"	Elastomeric Type II	10"
G2	"	9"	"	10"
G3	"	9"	"	10"
G4	"	9"	"	10"
G5	"	9"	"	10"
G6	"	9"	"	10"
G7	"	9"	"	10"
G8	"	9"	"	10"
G9	"	9"	"	10"
G10	Low Profile Fixed	5 1/2"	"	10"
G11	"	5 1/2"	"	10"
G12	"	5 1/2"	"	10"
G13	"	5 1/2"	"	10"
G14	"	5 1/2"	Elastomeric Type I	9"
G15	"	5 1/2"	"	9"
G16	"	5 1/2"	"	9"
G17	"	5 1/2"	"	9"
G18	Elastomeric Type I	9"	"	9"
G19	"	9"	"	9"
G20	"	9"	"	9"
G21	"	9"	"	9"
G22	"	9"	"	9"
G23	"	9"	"	9"
G24	"	9"	"	9"
G25	"	9"	"	9"
G26	"	9"	"	9"



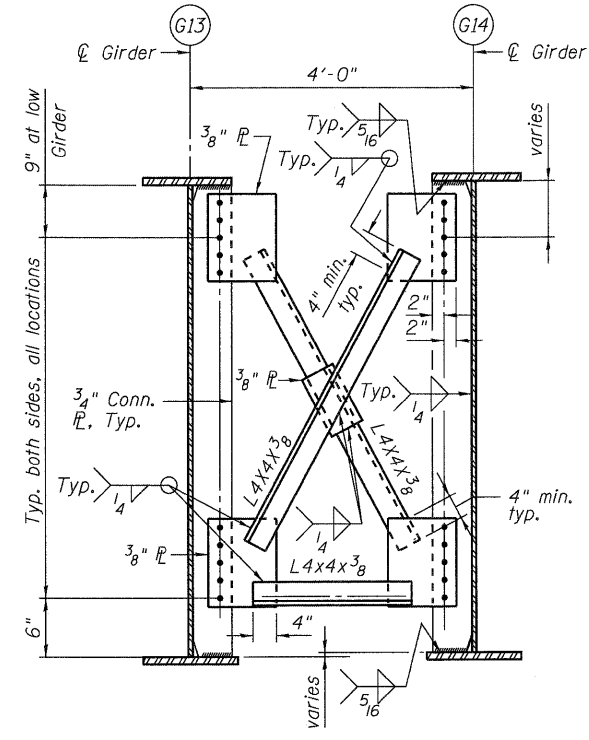
SECTION A-A

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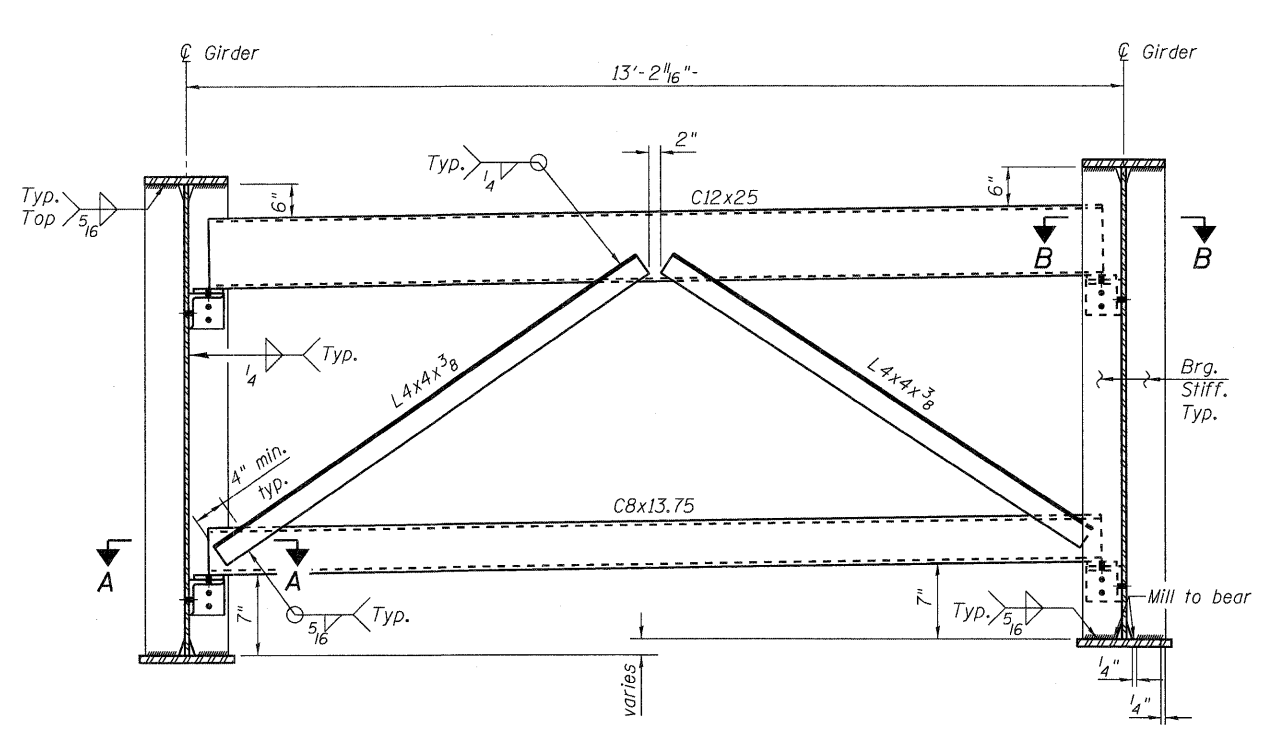
F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 204
			CONTRACT NO. 60122	
ILLINOIS FED. AID PROJECT				



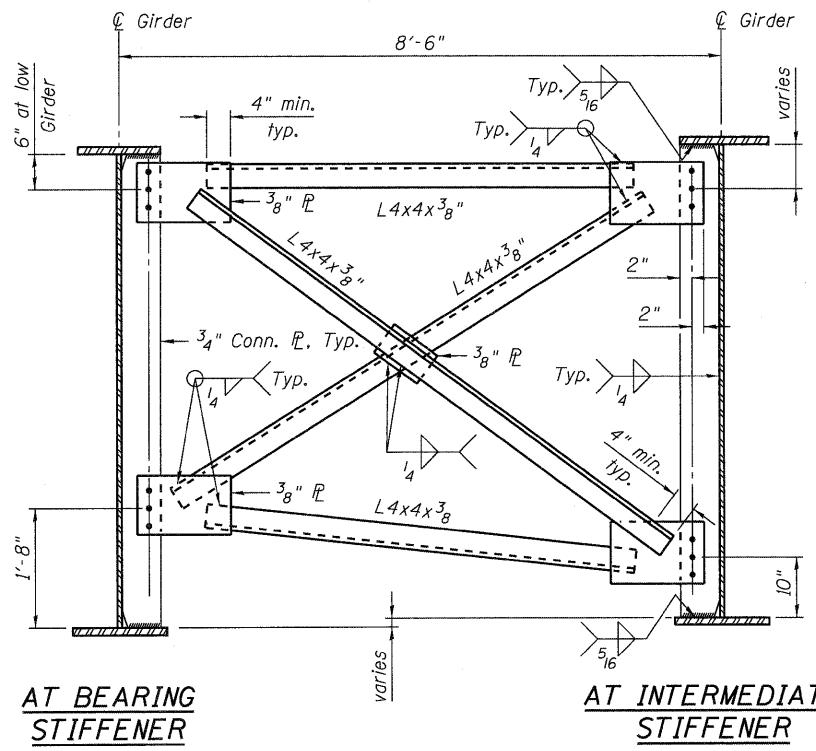
CROSS FRAME CF-1



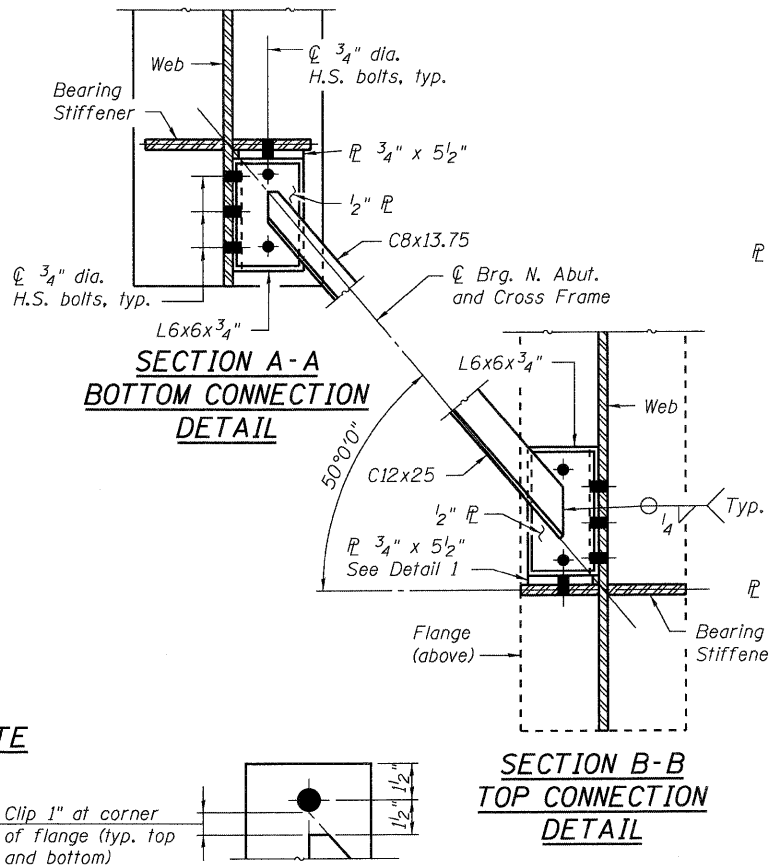
CROSS FRAME CF-2



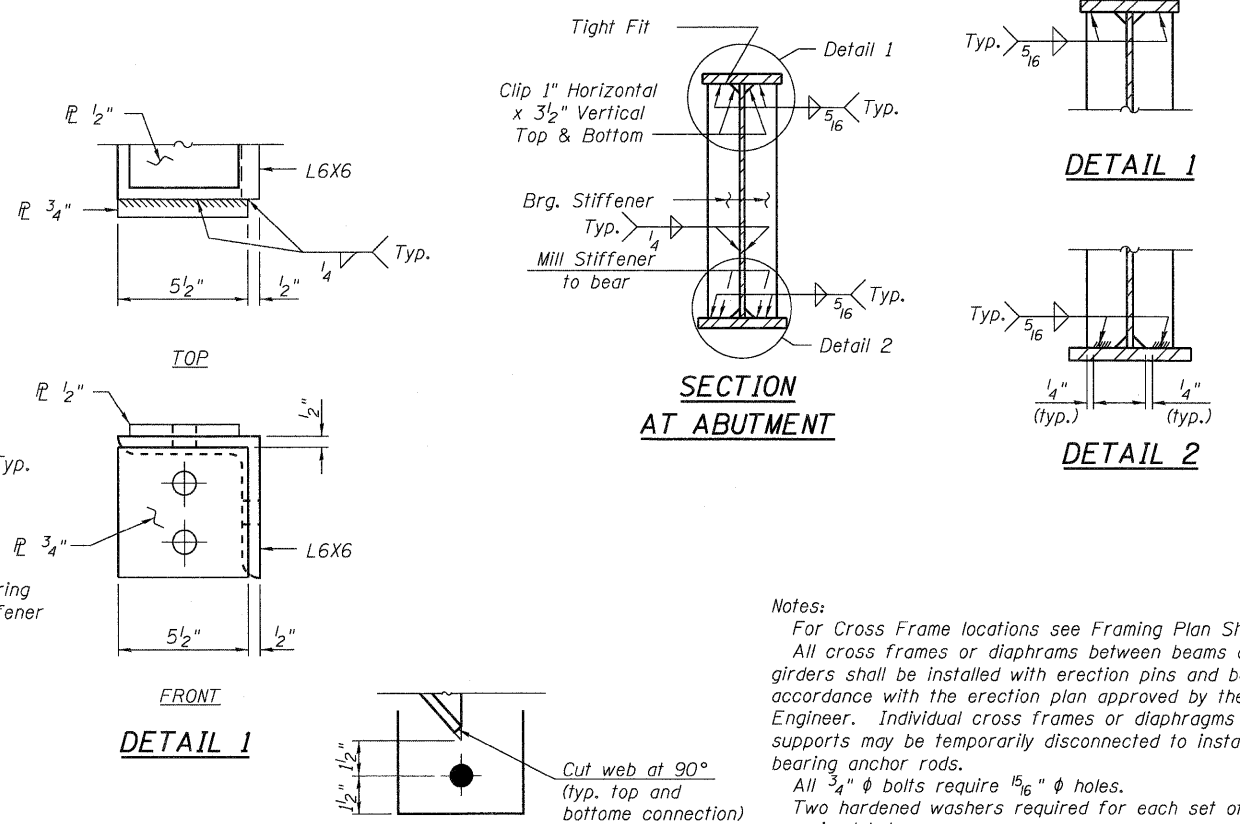
CROSS FRAME CF-3



CROSS FRAME CF-4



DETAIL A



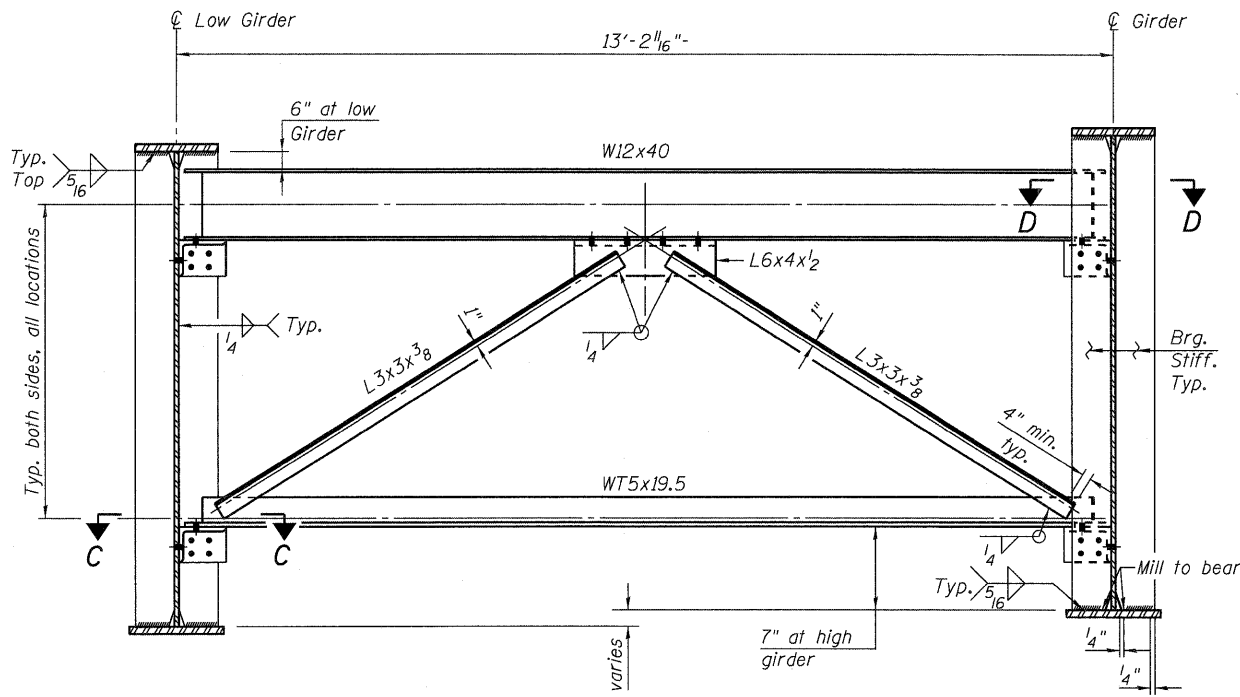
DETAIL 1

DETAIL 2

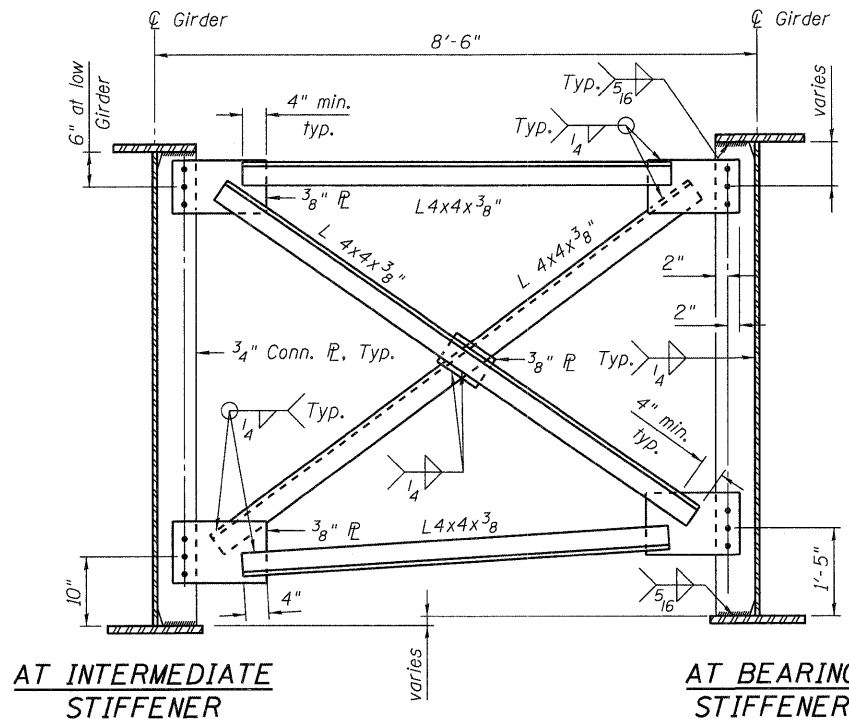
Notes:
 For Cross Frame locations see Framing Plan Sheet 37.
 All cross frames or diaphragms between beams or girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
 All 3/4" ϕ bolts require 15/16" ϕ holes.
 Two hardened washers required for each set of oversized holes.

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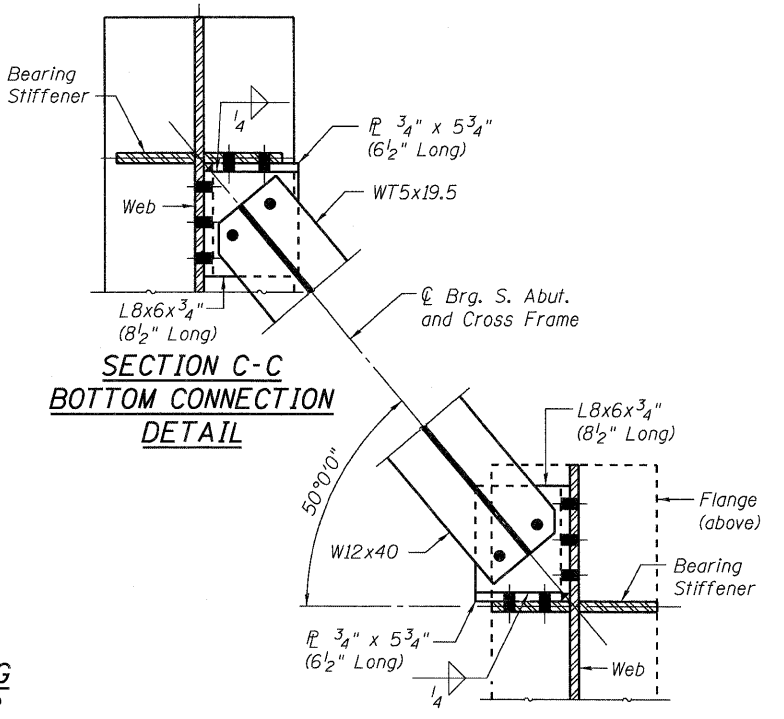
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PLOT DATE = 3/28/2012	CHECKED - KJH	REVISD -	ILLINOIS FED. AID PROJECT							



CROSS FRAME CF-5



CROSS FRAME CF-6



INTERIOR GIRDER MOMENT TABLE		
		Mid-Span
I_s	(in ⁴)	90611
$I_c(n)$	(in ⁴)	194759
$I_c(3n)$	(in ⁴)	141159
S_s	(in ³)	2298
$S_c(n)$	(in ³)	3140
$S_c(3n)$	(in ³)	2780
Z	(in ³)	-
DC1	(k/')	1.226
M _{DC1}	(k)	4249
DC2	(k/')	0.109
M _{DC2}	(k)	379
DW	(k/')	0.369
M _{DW}	(k)	1280
M _{LL + IM}	(k)	3505
M _u (Strength I)	(k)	13838
$\phi_r M_n$	(k)	15659
f_s DC1	(ksi)	22.19
f_s DC2	(ksi)	1.64
f_s DW	(ksi)	5.53
f_s 1.3(LL + IM)	(ksi)	17.42
f_s (Service II)	(ksi)	46.78
f_s (Total)(Strength I)	(ksi)	-
V _r	(k)	79.9

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) 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) due to long-term composite (superimposed) dead loads (in⁴ and in³).

Z: Plastic Section Modulus of the steel section in non-composite areas. Omit line in Moment Table if not used in design calculations (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.).

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

$\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).

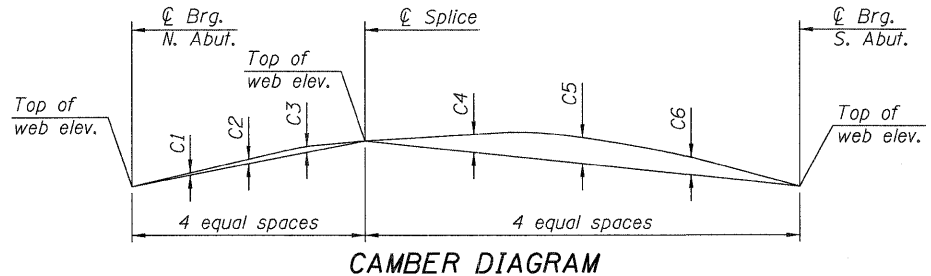
$\phi_r M_{nc}$: Compact non-composite negative moment capacity computed according to Article A6.1.1 (kip-ft.).

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

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

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

V_r: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.



CAMBER DIMENSIONS TABLE

Girder No.	CAMBER DIMENSIONS (fractions of an inch)					
	C1	C2	C3	C4	C5	C6
G1	5/8"	1"	1 1/8"	4 3/4"	5 5/8"	3 3/4"
G2	3/8"	3/4"	7/8"	5 1/2"	6 3/4"	4 1/2"
G3	5/8"	1"	1 1/8"	4 3/4"	5 5/8"	3 3/4"
G4	3/8"	3/4"	7/8"	5 1/2"	6 3/4"	4 1/2"
G5	5/8"	1"	1 1/8"	4 3/4"	5 5/8"	3 3/4"
G6	3/8"	3/4"	7/8"	5 1/2"	6 3/4"	4 1/2"
G7	5/8"	1"	1 1/8"	4 3/4"	5 5/8"	3 3/4"
G8	3/8"	3/4"	7/8"	5 1/2"	6 3/4"	4 1/2"
G9	5/8"	1"	1 1/8"	4 3/4"	5 5/8"	3 3/4"
G10	3/8"	3/4"	7/8"	5 1/2"	6 3/4"	4 1/2"
G11	5/8"	1"	1 1/8"	4 3/4"	5 5/8"	3 3/4"
G12	3/8"	3/4"	7/8"	6 1/8"	8"	5 7/8"
G13	5/8"	1"	1 1/8"	6"	7"	4 3/8"
G14	5/8"	1"	1 1/8"	5 7/8"	6 3/8"	4 1/8"
G15	1/2"	7/8"	1"	5 1/2"	6 3/4"	4 1/2"
G16	5/8"	1"	1 1/8"	4 3/4"	5 5/8"	3 3/4"
G17	3/8"	3/4"	7/8"	5 1/2"	6 3/4"	4 1/2"
G18	5/8"	1"	1 1/8"	4 3/4"	5 5/8"	3 3/4"
G19	3/8"	3/4"	7/8"	5 1/2"	6 3/4"	4 1/2"
G20	5/8"	1"	1 1/8"	4 3/4"	5 5/8"	3 3/4"
G21	3/8"	3/4"	7/8"	5 1/2"	6 3/4"	4 1/2"
G22	5/8"	1"	1 1/8"	4 3/4"	5 5/8"	3 3/4"
G23	3/8"	3/4"	7/8"	5 1/2"	6 3/4"	4 1/2"
G24	5/8"	1"	1 1/8"	4 3/4"	5 5/8"	3 3/4"
G25	3/8"	3/4"	7/8"	5 1/2"	6 3/4"	4 1/2"
G26	5/8"	1"	1 1/8"	4 3/4"	5 5/8"	3 3/4"

TOP OF WEB ELEVATIONS (FOR FABRICATION ONLY)

Girder No.	TOP OF WEB ELEVATIONS		
	N. Abut.	Splice	S. Abut.
G1	806.620	806.963	805.472
G2	806.763	807.094	805.740
G3	806.897	807.316	805.999
G4	807.022	807.415	806.250
G5	807.139	807.634	806.492
G6	807.246	807.700	806.725
G7	807.345	807.917	806.949
G8	807.436	807.950	807.165
G9	807.517	808.165	807.371
G10	807.590	808.165	807.569
G11	807.654	808.378	807.759
G12	807.709	808.345	807.742
G13	807.755	808.556	807.716
G14	807.774	808.593	807.701
G15	807.808	808.501	807.662
G16	807.829	808.456	807.615
G17	807.647	808.206	807.558
G18	807.457	808.160	807.493
G19	807.258	807.877	807.420
G20	807.050	807.830	807.337
G21	806.833	807.514	807.246
G22	806.608	807.464	807.145
G23	806.374	807.115	807.037
G24	806.131	807.063	806.919
G25	805.879	806.682	806.792
G26	805.618	806.627	806.657

Notes:

For Cross Frame locations see Framing Plan Sheet 37.

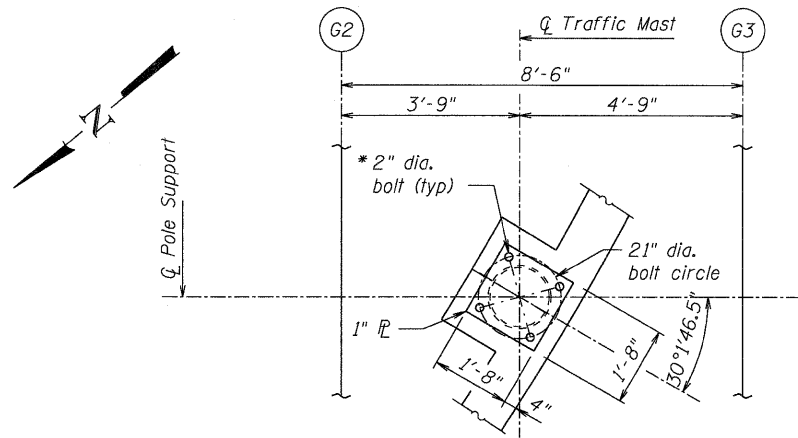
All cross frames or diaphragms between beams or girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

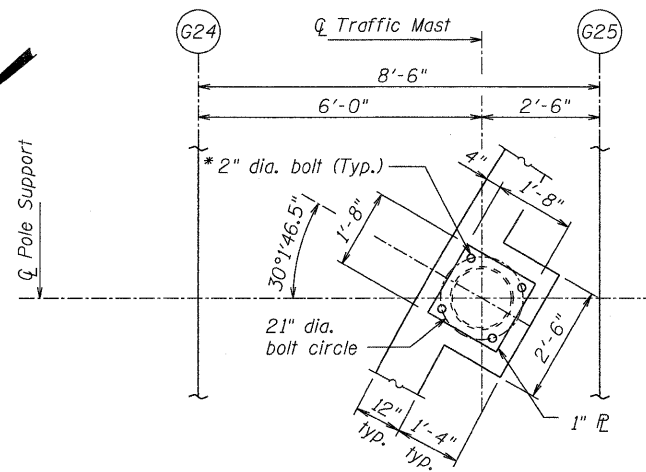
All 3/4" ϕ bolts require 15/16" ϕ holes.

Two hardened washers required for each set of oversized holes.

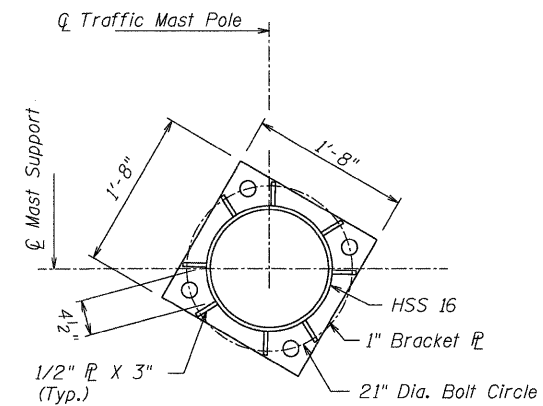
INTERIOR GIRDER REACTION TABLE		
	Reaction (k)	Location
R _{DC1}	(k)	102.1 G3-S. Abut.
R _{DC2}	(k)	9.16 G3-S. Abut.
R _{DW}	(k)	30.74 G3-S. Abut.
R _{LL + IM}	(k)	200.56 G3-S. Abut.
R _{Total}	(k)	342.56 G3-S. Abut.



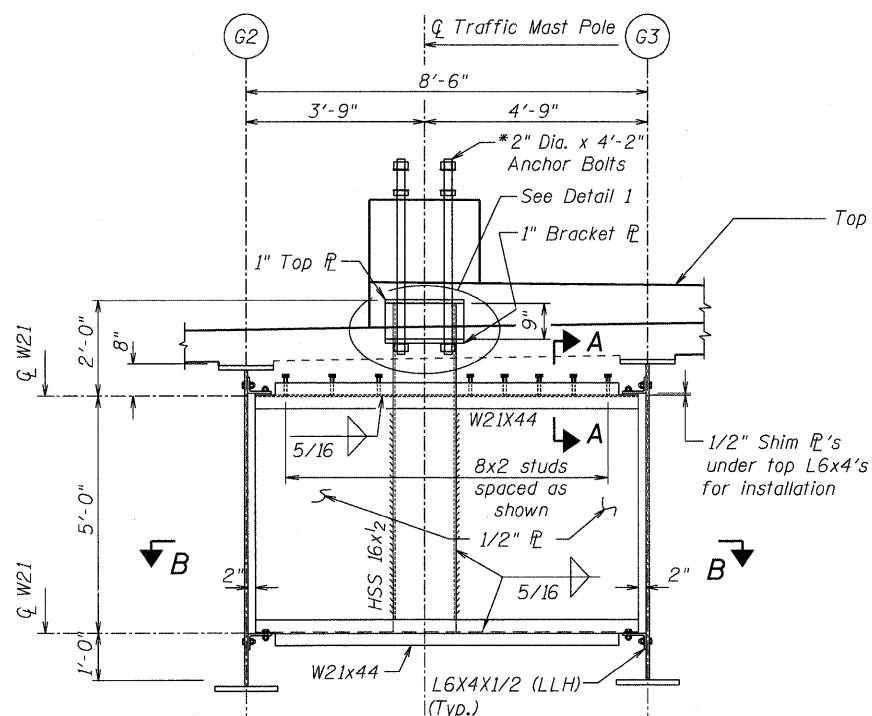
WESTBOUND PLAN - TOP PLATE



EASTBOUND PLAN - TOP PLATE



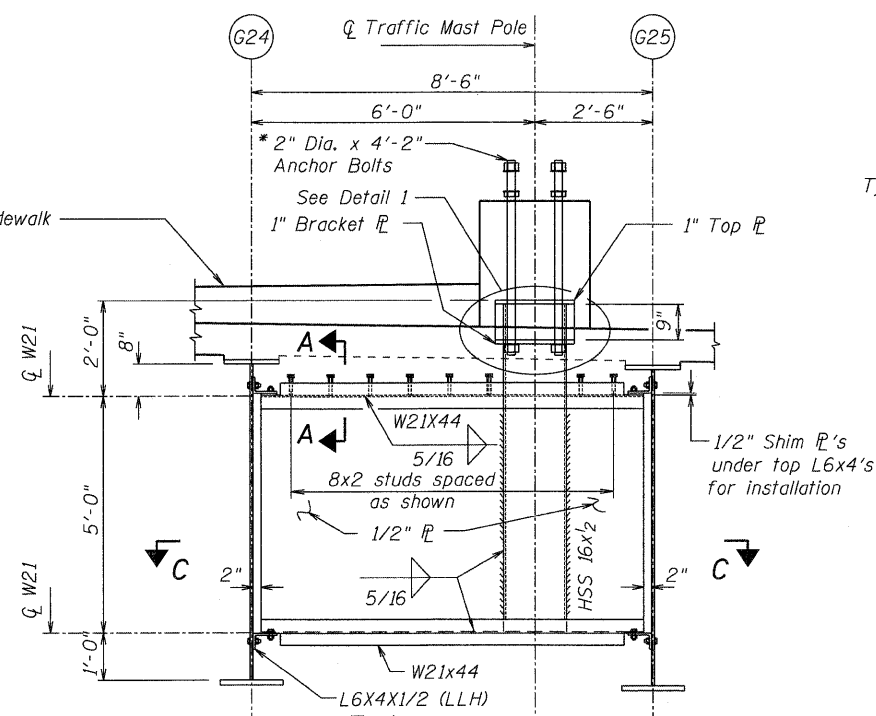
PLAN - BRACKET



SECTION B-B

WESTBOUND SUPPORT DETAIL

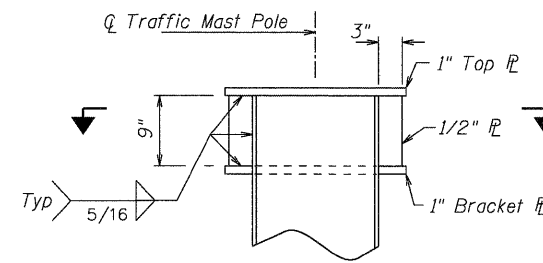
* Anchor bolts shall be ASTM F 1554 Grade 105 steel (galv.).
Cost included with Concrete Superstructure.



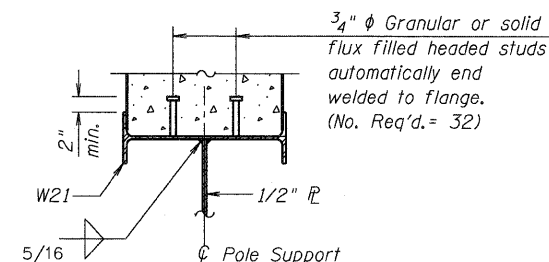
SECTION C-C

EASTBOUND SUPPORT DETAIL

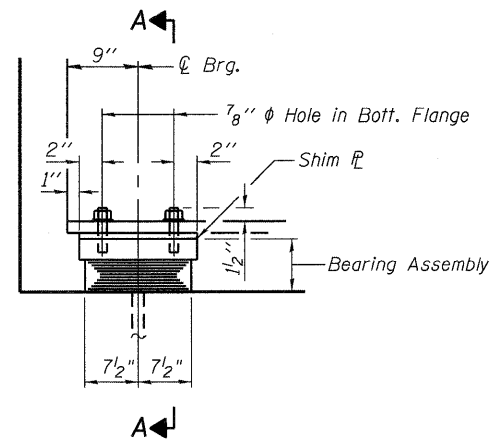
* Anchor bolts shall be ASTM F 1554 Grade 105 steel (galv.).
Cost included with Concrete Superstructure.



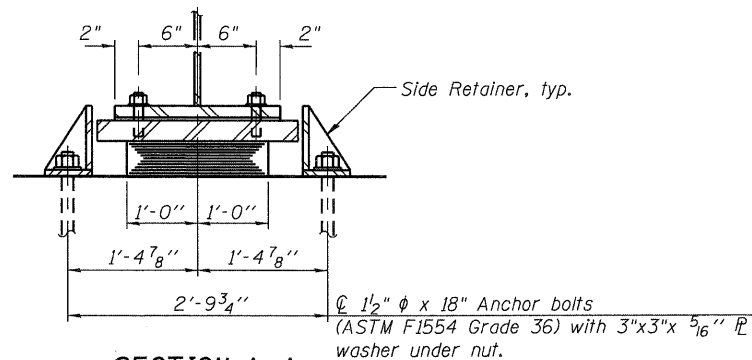
DETAIL 1



SECTION A-A

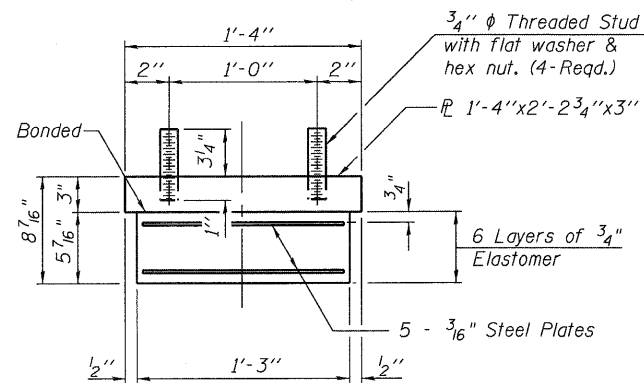


ELEVATION AT ABUT.



SECTION A-A

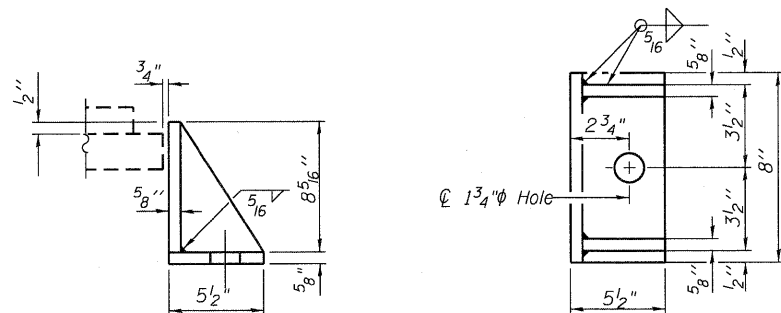
TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Note:
Shim plates shall not be placed under Bearing Assembly.

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
Clip bearing plates as required at front face of abutment.
The structural steel plates of the Bearing Assembly shall conform to the requirements of Grade 50W.
See sheet 38 for location of Type I Elastomeric Bearings.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

SHIM P THICKNESS TABLE

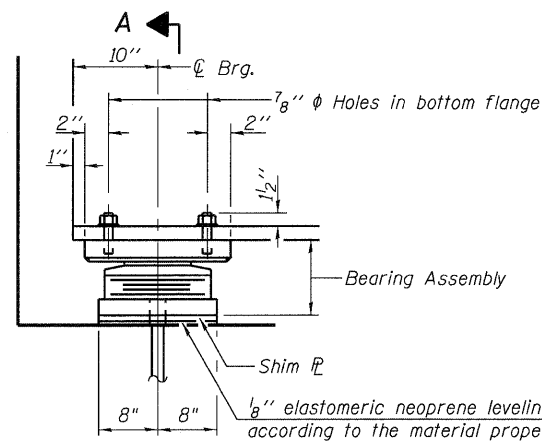
Location	G15
South Abutment	5/8"

BILL OF MATERIAL

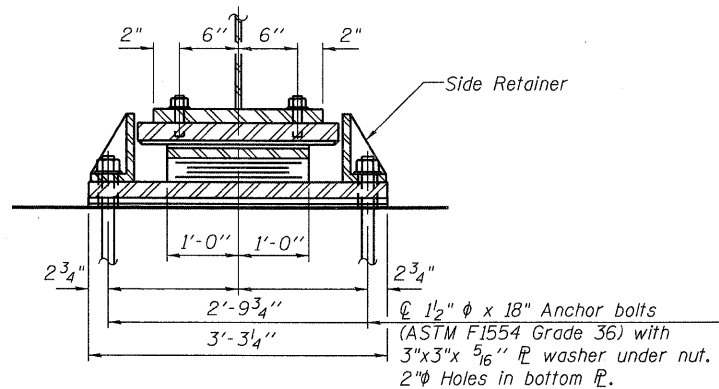
Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	31
Anchor Bolts, 1 1/2"	Each	62

FILE NAME = 0450079-60122-042-Type.I.Brg.Det.dgn	USER NAME = jahrhart	DESIGNED - KJH	REVISED -
		CHECKED - MJL	REVISED -
	PLOT SCALE = 1:0.0833333	DRAWN - MJL	REVISED -
	PLOT DATE = 3/20/2012	CHECKED - PMH	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	LY (HB & VB)	DUPAGE/KANE	421	208
			CONTRACT NO. 60122	
ILLINOIS FED. AID PROJECT				

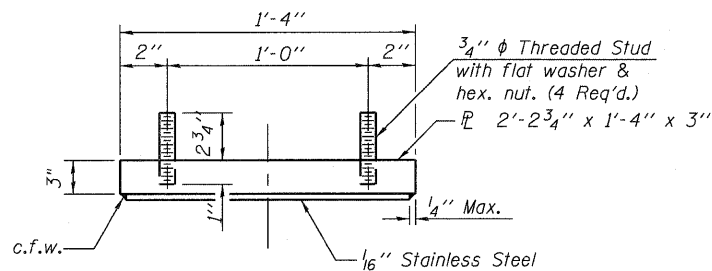


ELEVATION AT ABUT.

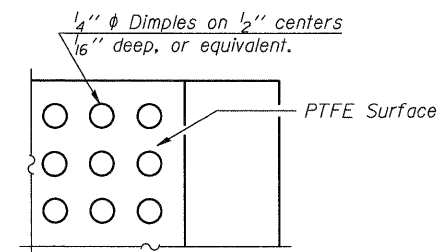


SECTION A-A

TYPE II ELASTOMERIC EXP. BRG.



TOP BEARING ASSEMBLY



PLAN-PTFE SURFACE

SHIM PLATE THICKNESS TABLE

Location	G11	G12
South Abutment	1/2"	3/8"

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

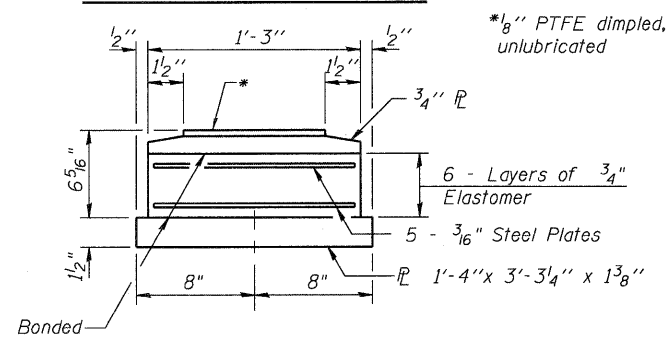
The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

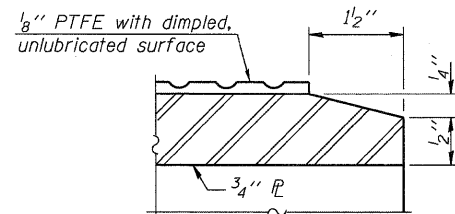
Clip bearing plates as required on front face of abutment.

The structural steel plates of the Bearing Assembly shall conform to the requirements of Grade 50W.

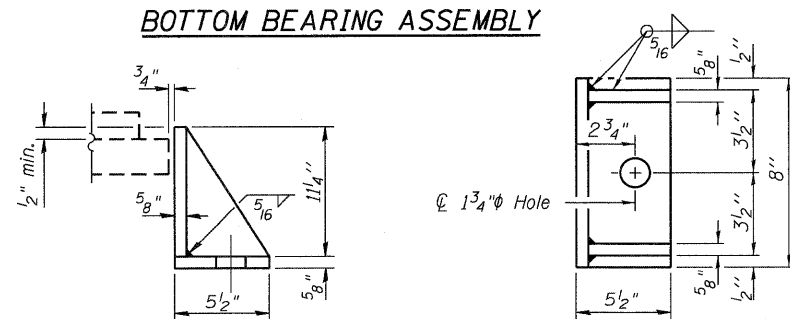
See sheet 38 for location of Type II Elastomeric Bearings.



BOTTOM BEARING ASSEMBLY

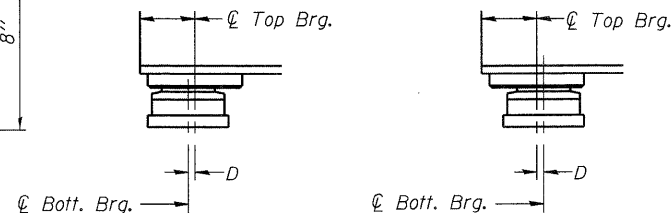


SECTION THRU PTFE



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



BELOW 50°F.

(Move bott. brg. away from fixed brg.)

ABOVE 50°F.

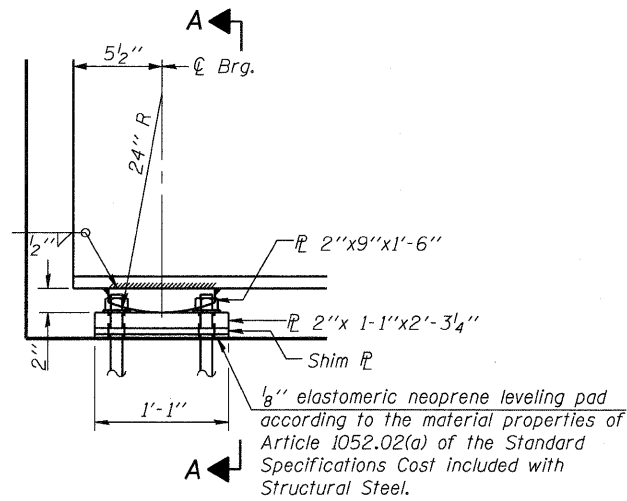
(Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

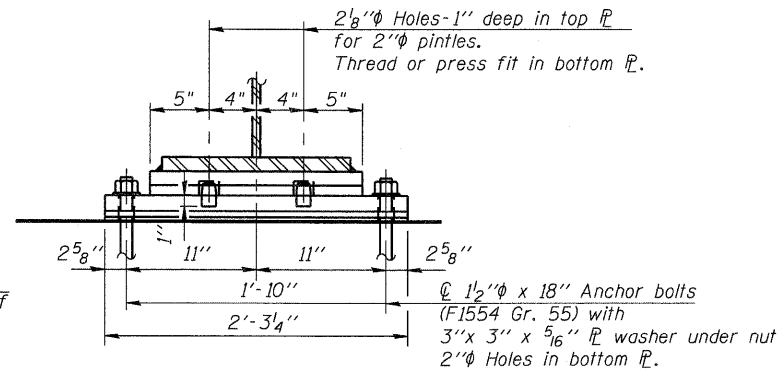
D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL

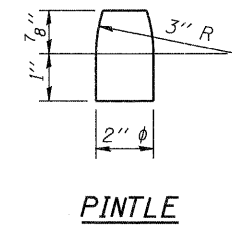
Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	13
Anchor Bolts, 1 1/2"	Each	26



ELEVATION AT ABUT.

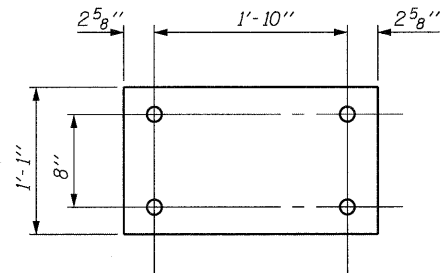


SECTION A-A



PINTLE

LOW PROFILE FIXED BEARING



BASE PL

SHIM PL THICKNESS TABLE

Location	G12	G14	G15
North Abutment	5/8"	1/4"	5/8"

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Cost of Fixed Bearing Assembly, excluding Anchor Bolts, to be included in the cost of "Furnishing and Erecting Structural Steel"

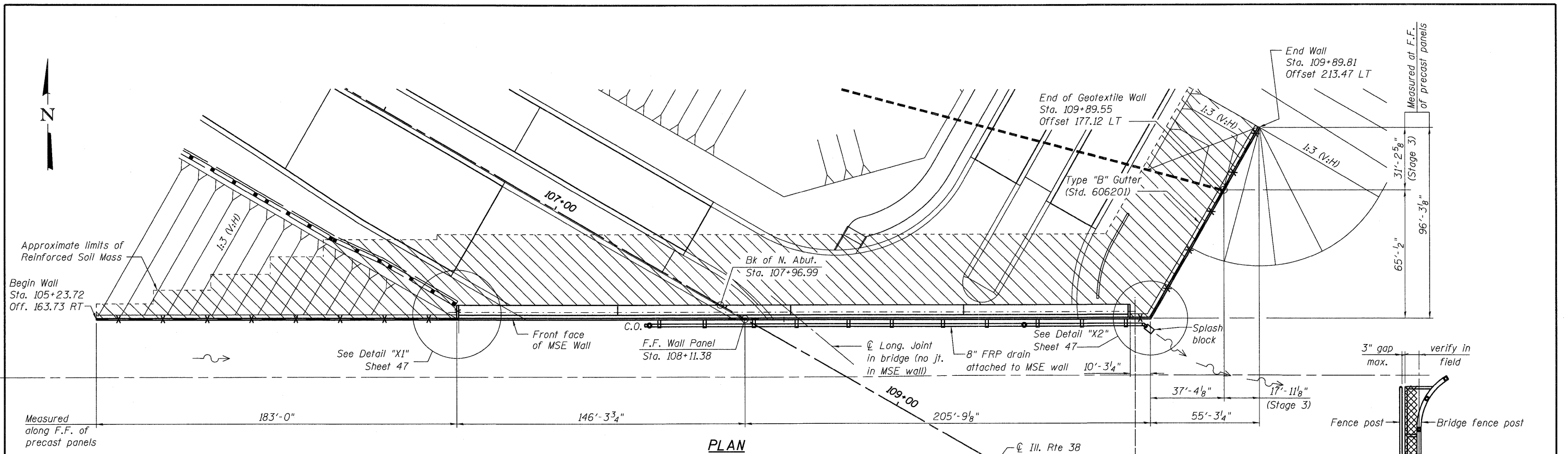
See Sheet 38 for location of fixed bearings.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1 1/2"	Each	32

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	PLOT SCALE = 1:0.0833333	CHECKED - MJL	REVISED -
	PLOT DATE = 3/20/2012	DRAWN - MJL	REVISED -
		CHECKED - PMH	REVISED -

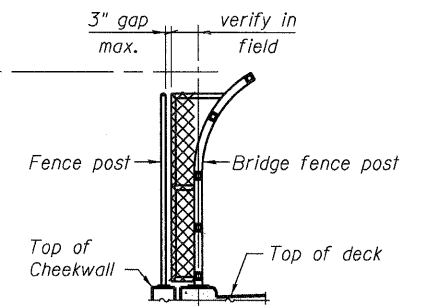
F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 2X0
				CONTRACT NO. 60122
ILLINOIS FED. AID PROJECT				



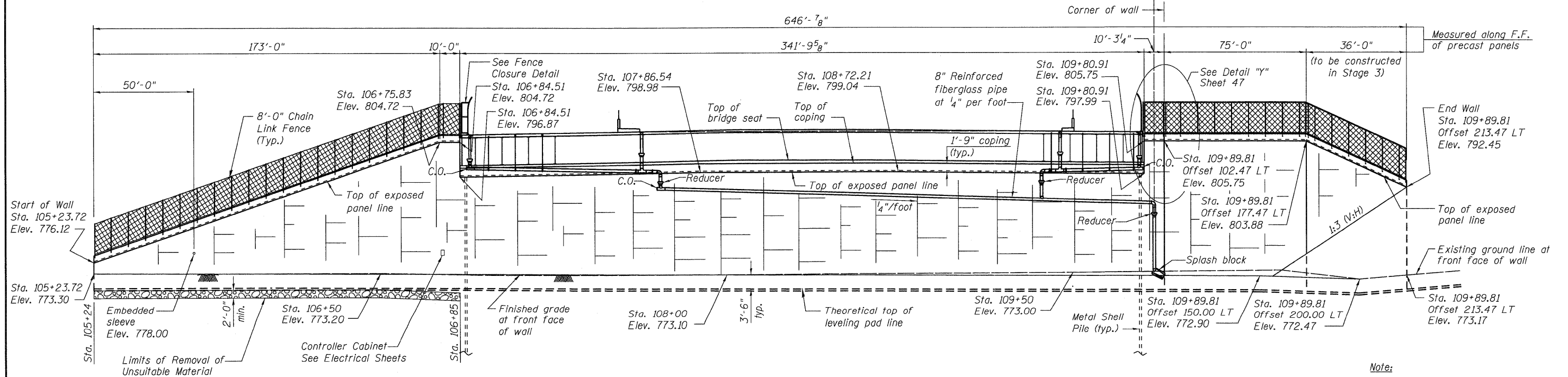
PLAN

LEGEND:

- X - Fence

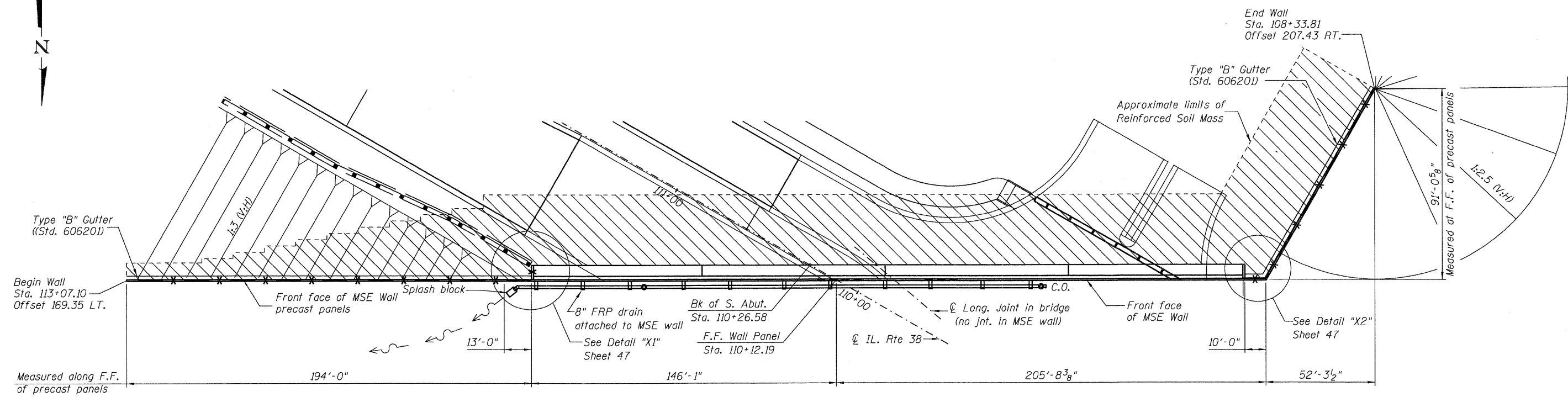


BRIDGE FENCE CLOSURE DETAIL



ELEVATION

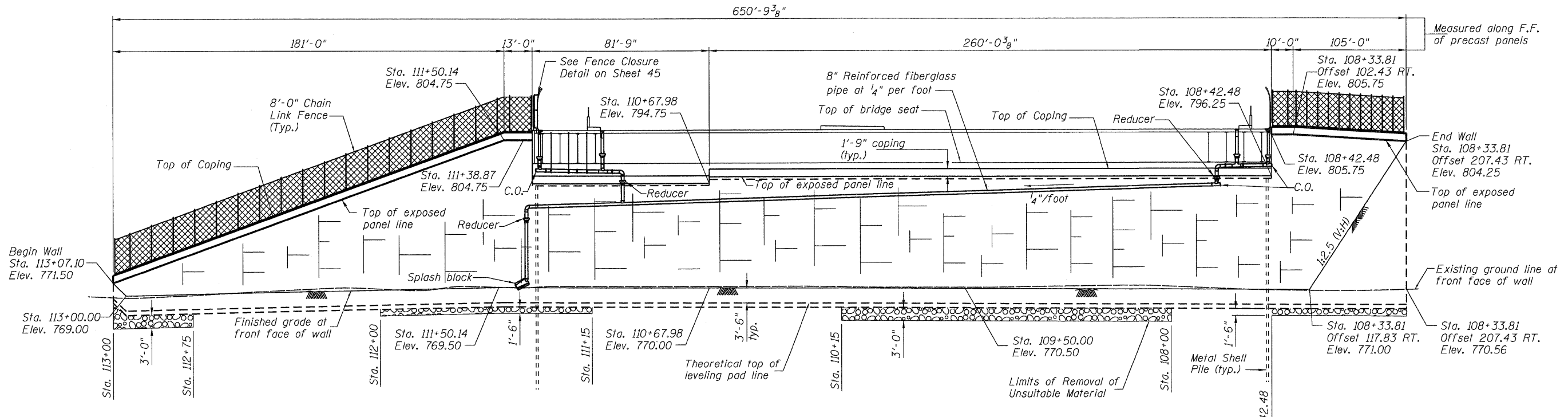
Note:
For typical sections see Sheet 47.
See Sheet 36 for Drainage Details.



PLAN

LEGEND:

— X — - Fence



ELEVATION

Note:
For typical sections see Sheet 47.
See Sheet 36 for Drainage Details.

McDonough Associates Inc.
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 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME =	USER NAME = jshert
0450079-60122-046-Abut.MSE.2.dgn	
PLOT SCALE = 1:25	
PLOT DATE = 3/20/2012	

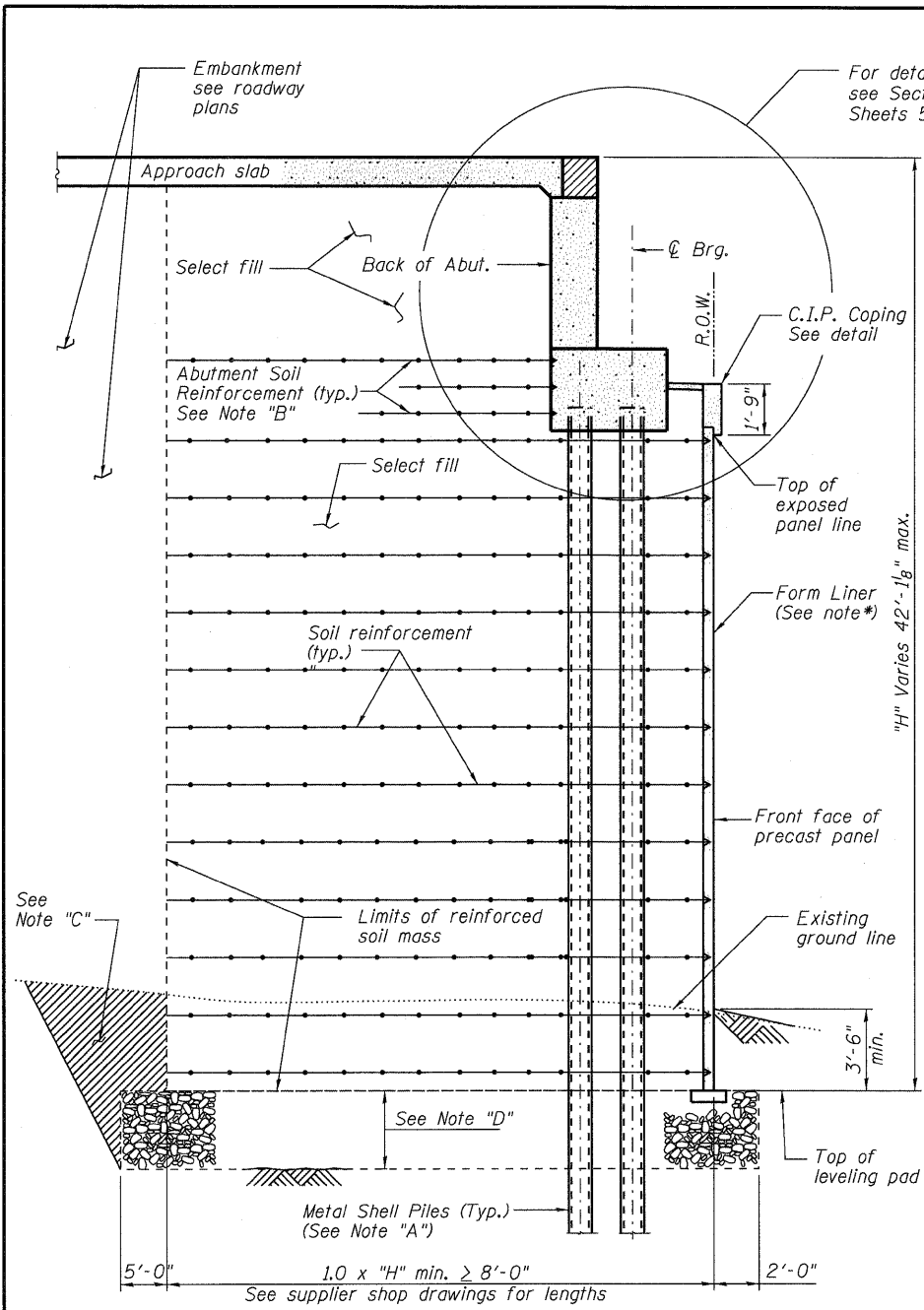
DESIGNED - JCE	REVISED -
CHECKED - KJH	REVISED -
DRAWN - AMV	REVISED -
CHECKED - KJH	REVISED -

DESIGNED - JCE	REVISED -
CHECKED - KJH	REVISED -
DRAWN - AMV	REVISED -
CHECKED - KJH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE WALL AT SOUTH ABUTMENT
STRUCTURE NO. 045-0079
 SHEET NO. 46 OF 67 SHEETS

F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 212
CONTRACT NO. 60122				
ILLINOIS FED. AID PROJECT				

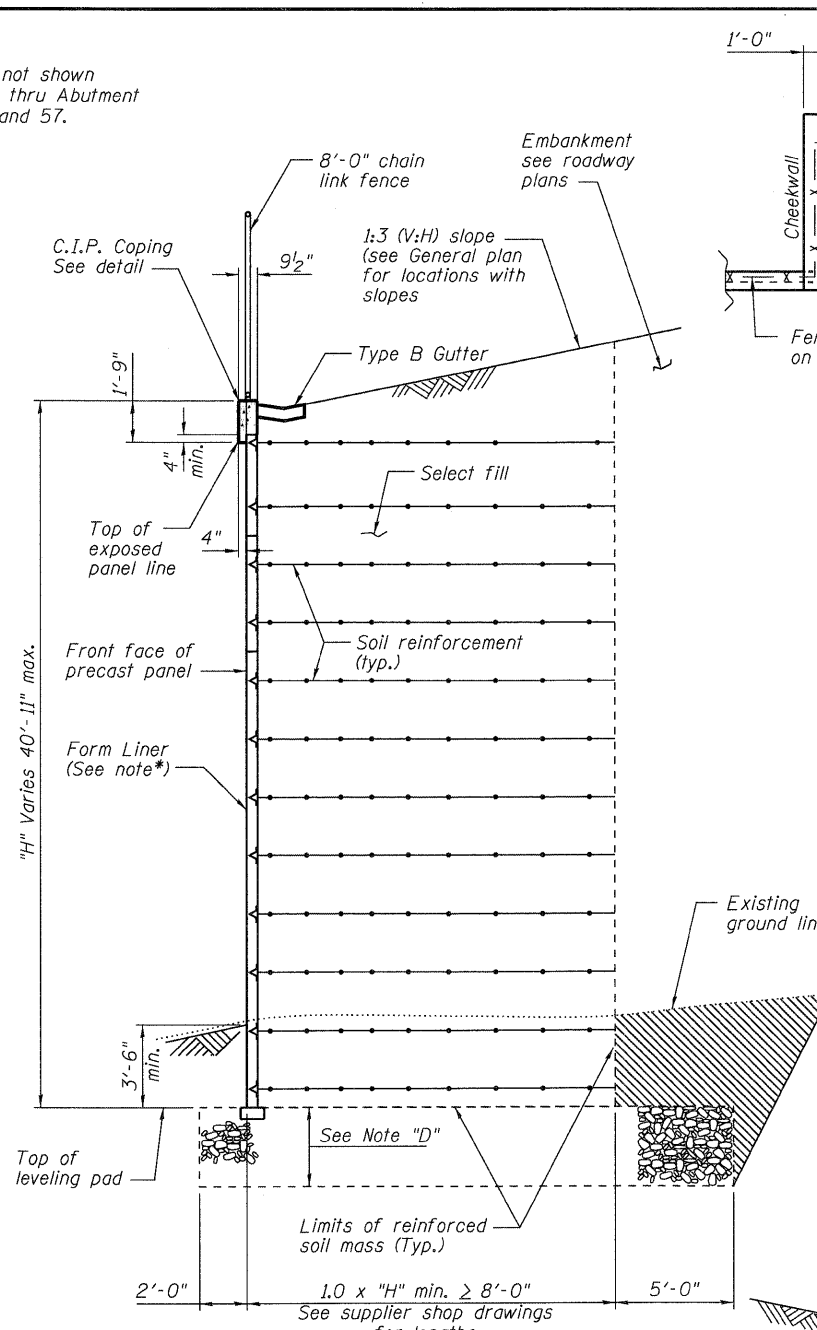


SECTION A-A
TYPICAL WALL SECTION THRU ABUTMENT

Note "A"
Piles shall be driven in precored holes prior to placement of reinforced select fill and coated with coal tar epoxy from the bottom of the select fill to 1" above base of the abutment. The cost of the coal tar epoxy coating shall be included with the cost of Furnishing Metal Shell Piles 14" X 0.250".

Note "B"
The MSE wall supplier shall design the abutment soil reinforcement to resist a horizontal force of 4 kips/ft of abutment.

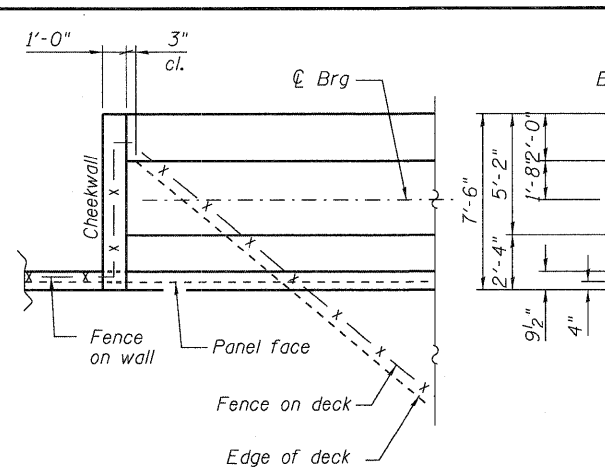
***Form Liner Note:**
Form liner for walls included in the cost of Mechanically Stabilized Earth Retaining Wall. See special provision for Form liner Textured Surface.



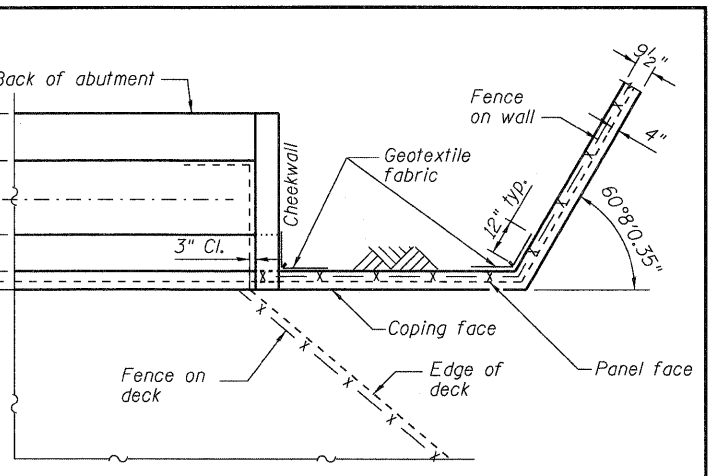
SECTION B-B
TYPICAL WALL SECTION AT WINGWALL

Note "C"
Overexcavation beyond structure excavation and removal of unsuitable material. This area not measured for payment. Backfill overexcavation with same material used for select fill used in MSE wall.

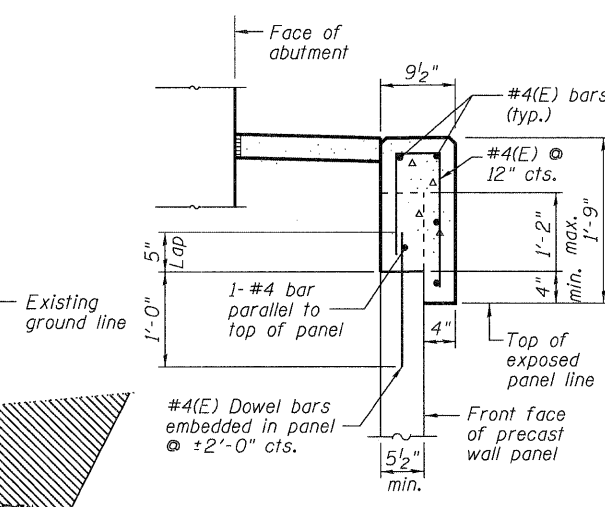
Note "D"
Limits of Removal of Unsuitable Material as indicated in the geotechnical report. Backfill with Porous Granular Embankment, Subgrade. See Elevation view for limits.



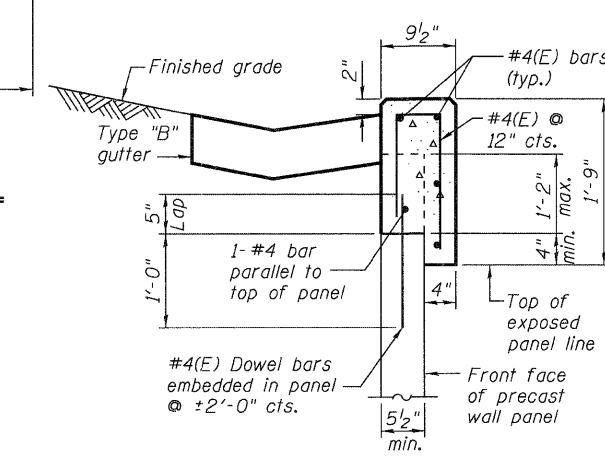
DETAIL "X1"



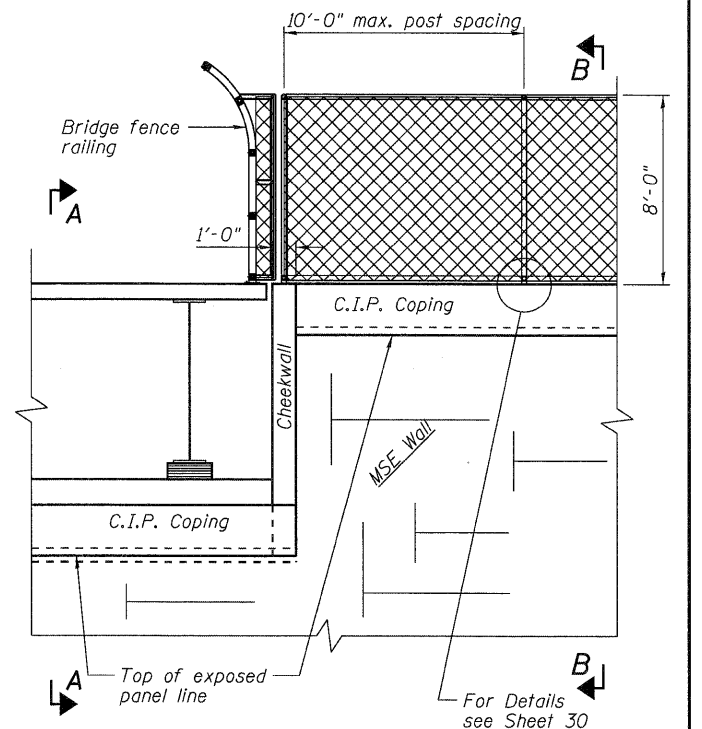
DETAIL "X2"



COPING DETAIL
(At Abutment)



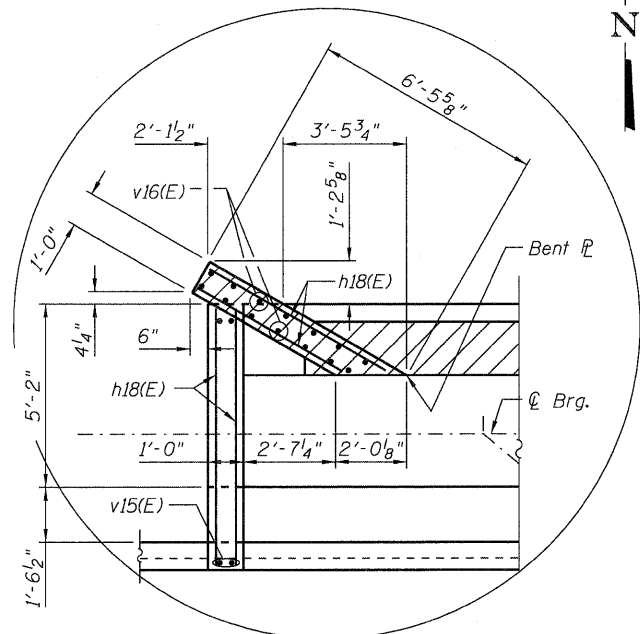
COPING DETAIL
(At Wingwall)



DETAIL "Y"

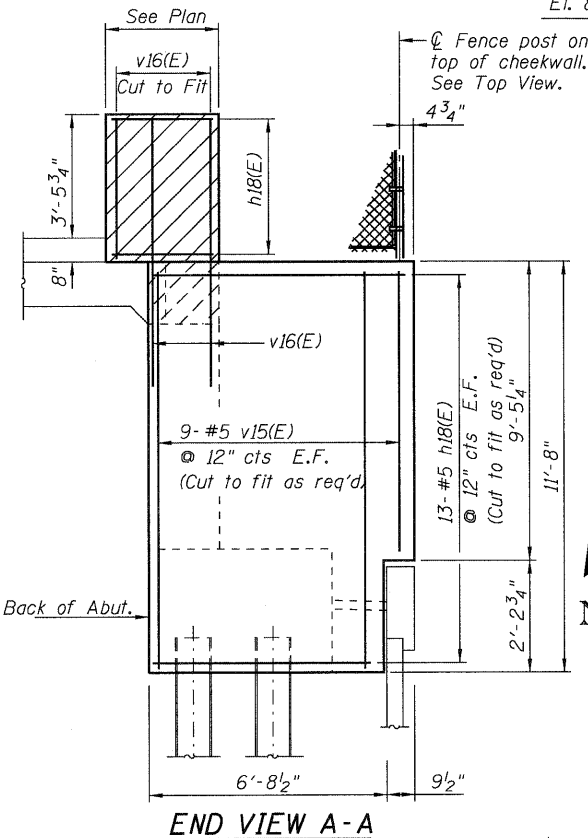
McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street Chicago, Illinois 60601

FILE NAME = 0450079-60122-047-Abut_MSE_3.dgn	USER NAME = jehhart	DESIGNED - JCE	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH & SOUTH ABUTMENTS - MSE WALL DETAILS STRUCTURE NO. 045-0079	F.A.P. RTE. = 347	SECTION = LY (HB & VB)	COUNTY = DUPAGE/KANE	TOTAL SHEETS = 421	SHEET NO. = 213	
PLOT SCALE = 1:4	DRAWN - AMV	CHECKED - KJH	REVISIONS -			SHEET NO. 47 OF 67 SHEETS					
PLOT DATE = 3/20/2012	CHECKED - KJH	REVISIONS -	REVISIONS -			CONTRACT NO. 60122					
ILLINOIS FED. AID PROJECT											



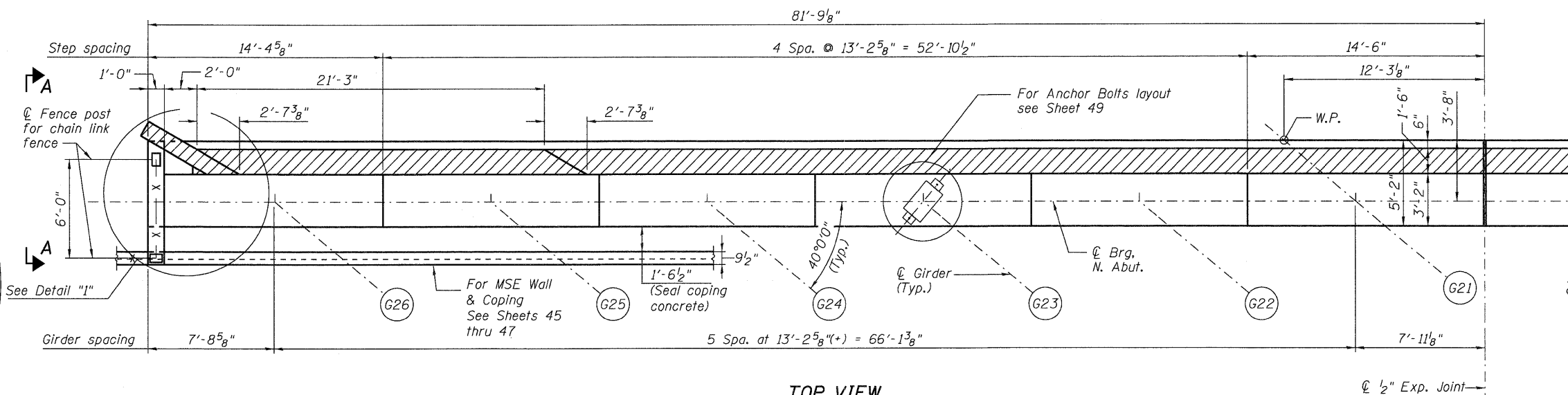
DETAIL "I"

Note: See Enlarged Eastbound Plan on Sheet 31 for Bent ϕ details.

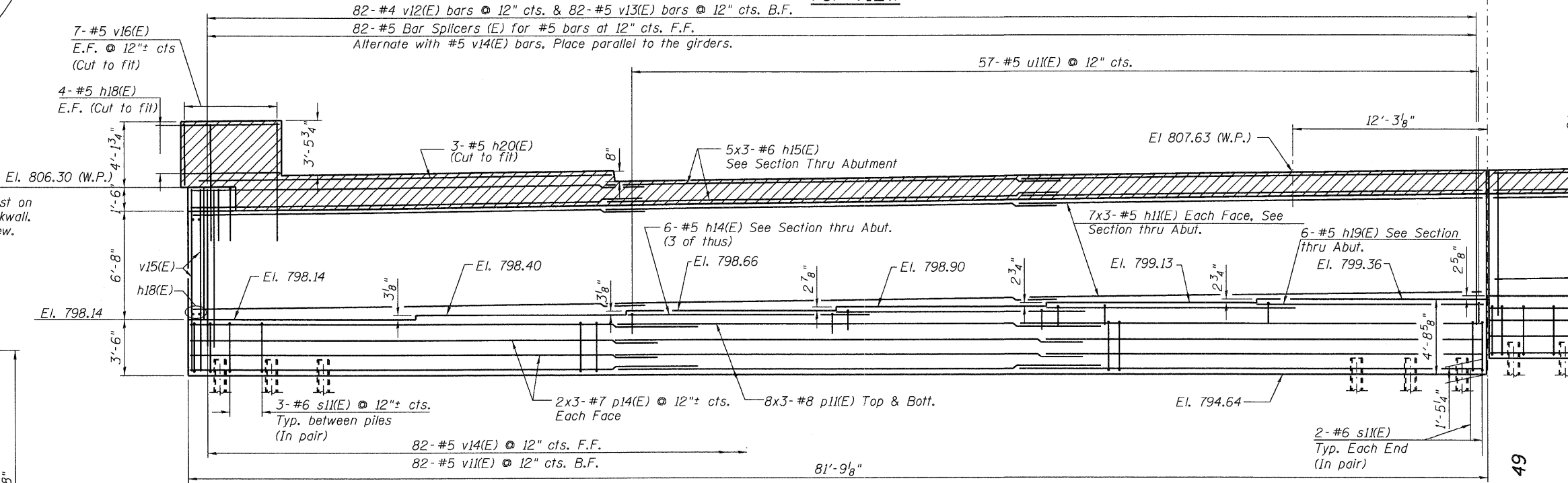


END VIEW A-A

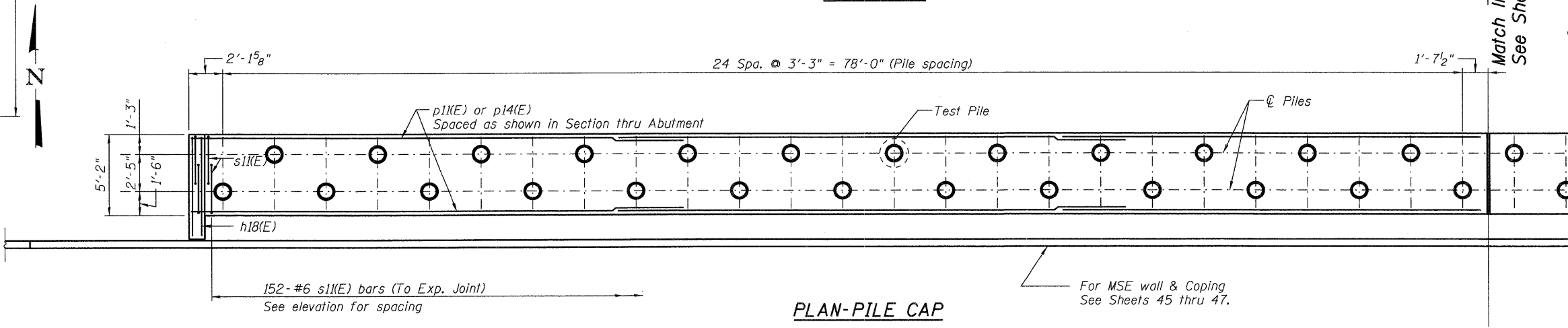
Notes:
 For Pile Data see sheet 50.
 For Section thru Abutment see Sheet 52.
 For Fence details see Sheet 30.



TOP VIEW



ELEVATION



PLAN-PILE CAP

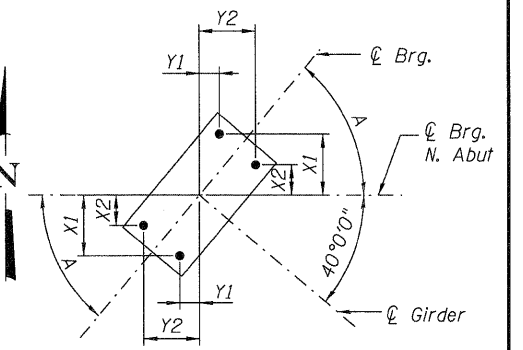
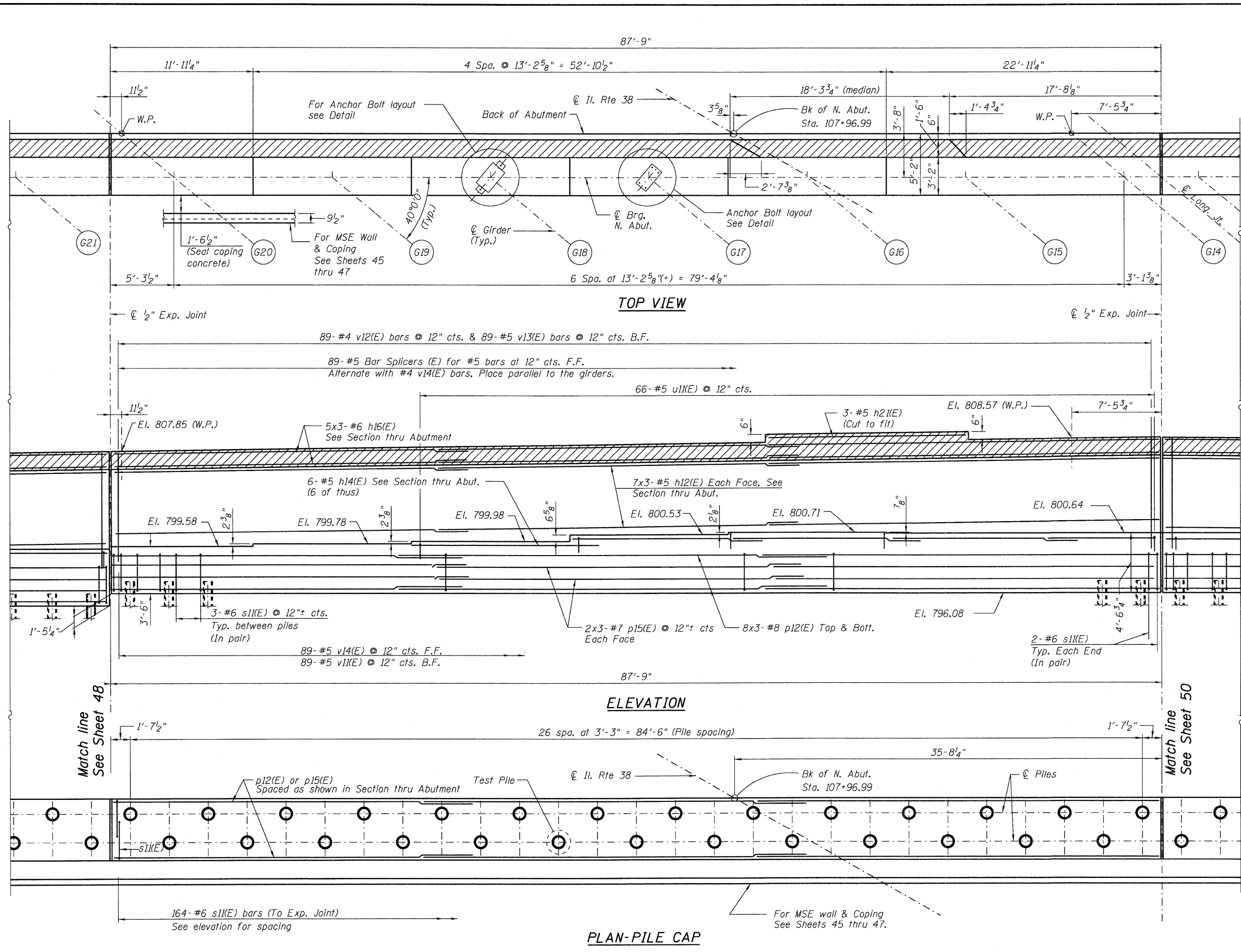
McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = 0450279-60122-048-Abut_NI.dgn	USER NAME = jahrbart	DESIGNED - MJL	REVISED -
PLOT SCALE = 1:4	DRAWN - RJ	CHECKED - PMH	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

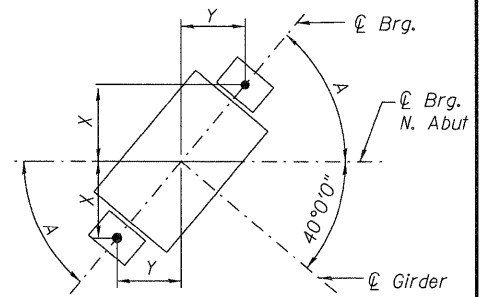
NORTH ABUTMENT - 1
STRUCTURE NO. 045-0079
 SHEET NO. 48 OF 67 SHEETS

F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 214
CONTRACT NO. 60122				ILLINOIS FED. AID PROJECT



LOW PROFILE FIXED BEARING ANCHOR BOLT LAYOUT
 Girders G10 thru G17

GIRDER	X1	X2	Y1	Y2	A
G10-G17	11"	5 7/8"	4"	10 7/8"	50°0'00"



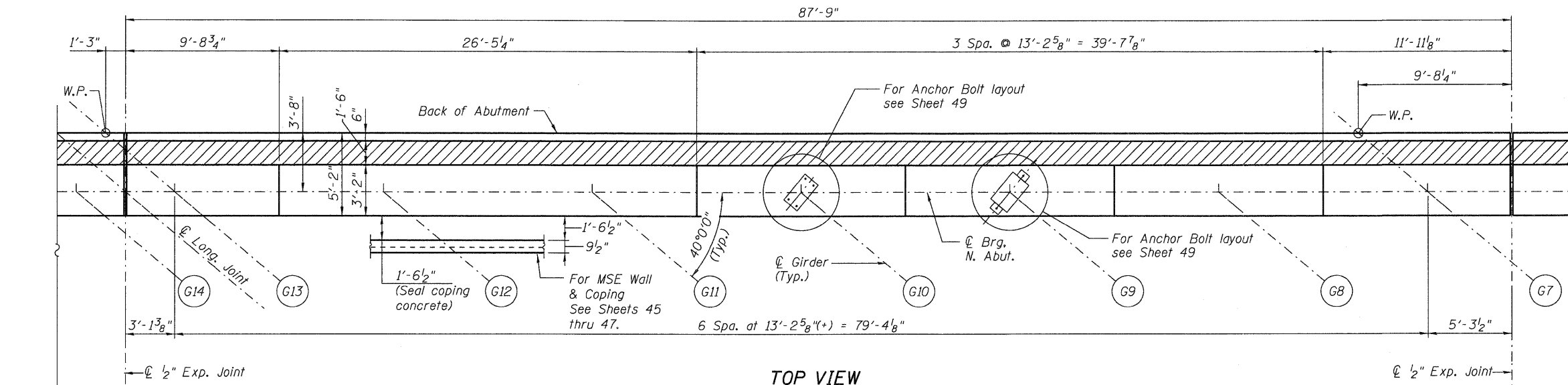
TYPE I ELASTOMERIC BEARING ANCHOR BOLT LAYOUT
 Girders G1 thru G9 & G18 thru G26

GIRDER	X	Y	A
G1-G9 & G18-G26	1'-0 7/8"	10 7/8"	50°0'00"

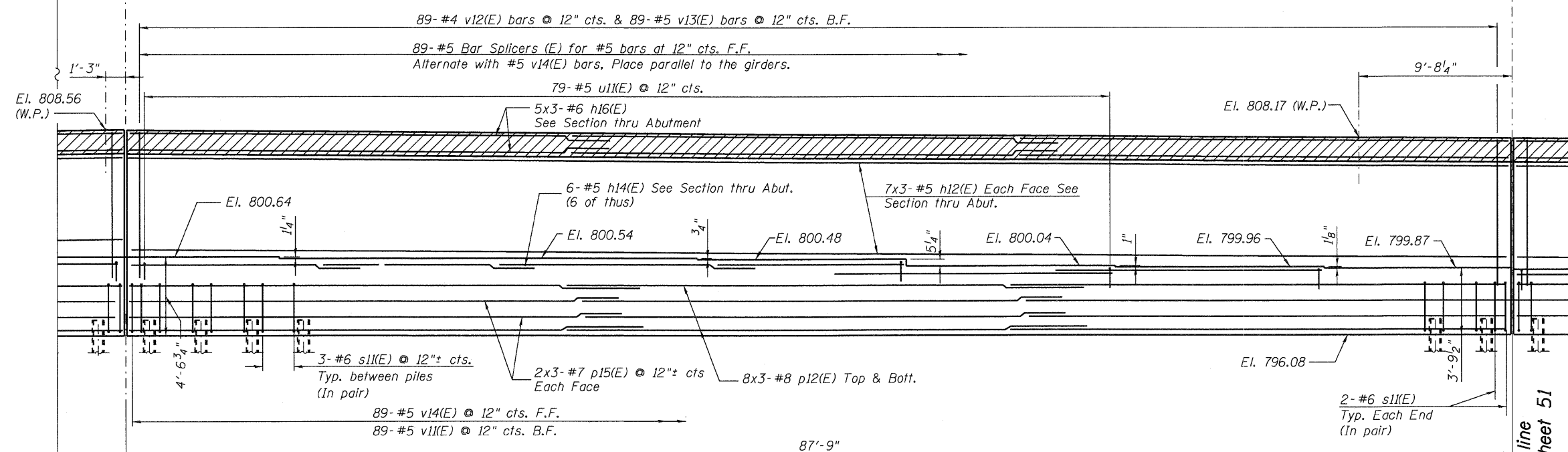
Notes:
 For Pile Data see sheet 50.
 For Section thru Abutment see Sheet 52.
 Work this sheet with Sheets 48, and 50 thru 52.

MINIMUM BAR LAP
(Abutment)

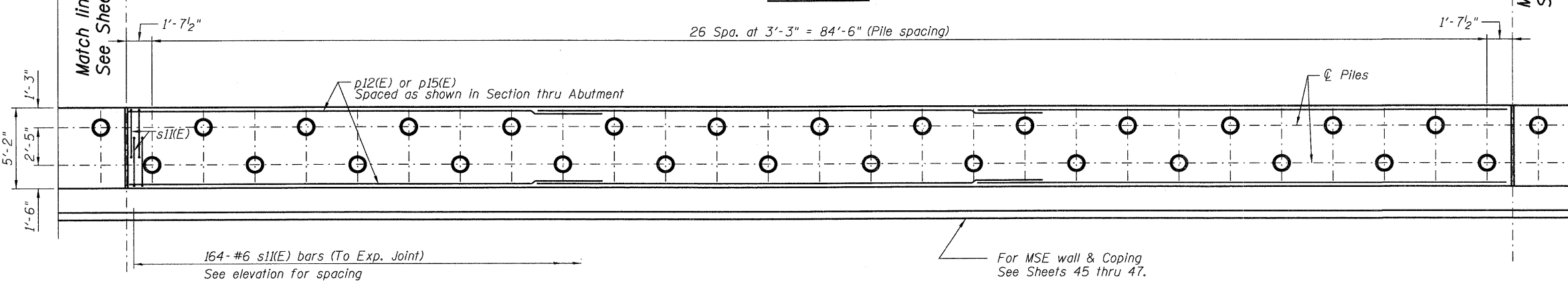
Other Bars	Top Bars
#5 bars = 3'-3"	#5 bars = 3'-8"
	#6 bars = 4'-5"
	#7 bars = 4'-8"
	#8 bars = 7'-8"



TOP VIEW



ELEVATION



PLAN-PILE CAP

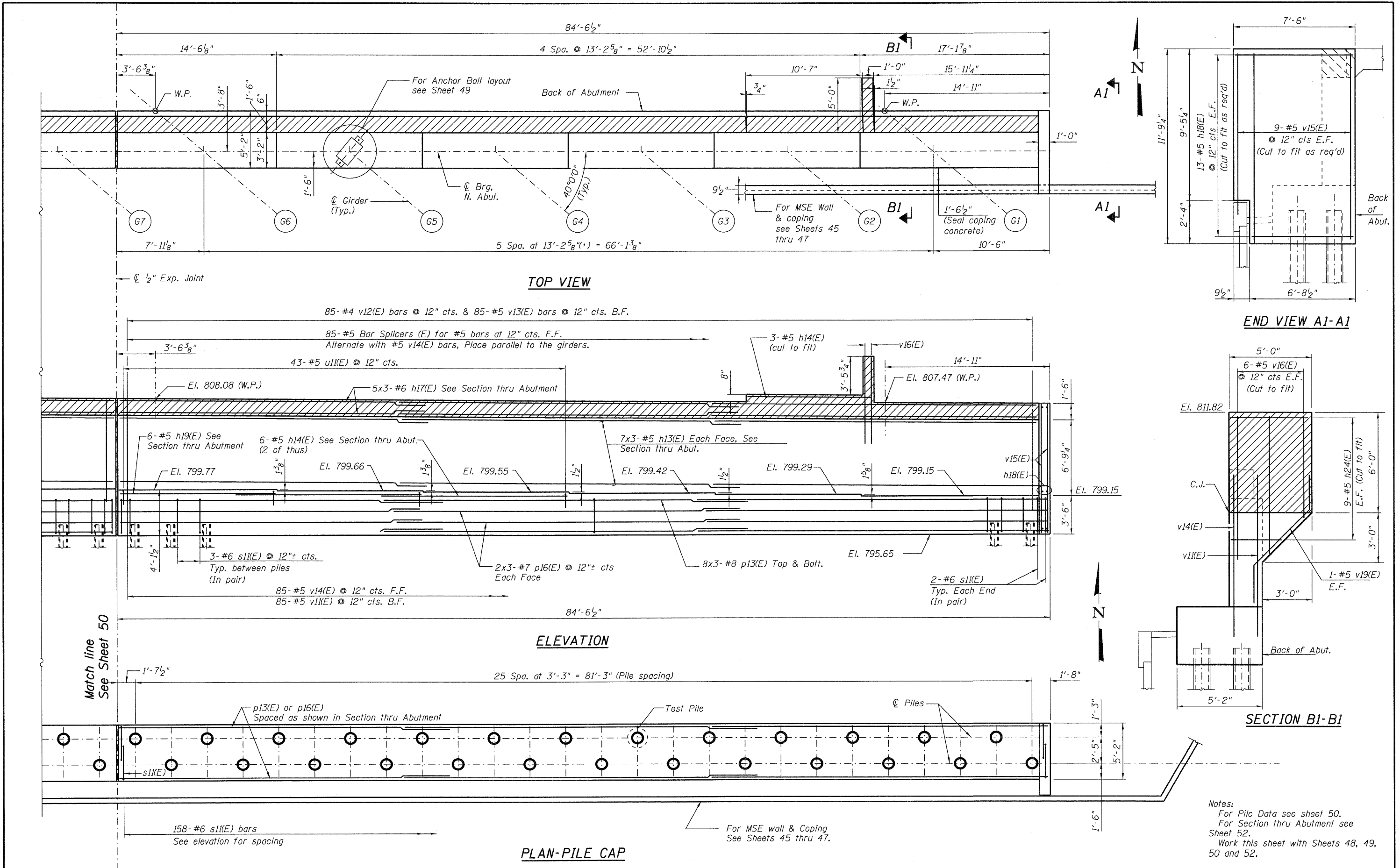
PILE DATA

Type: Metal Shell
 14 in dia. X 0.250 in. Walls
 Nominal Required Bearing: 304 kips
 Factored Resistance Available: 167 kips
 Est. Length: 86 ft.
 No. Production Piles: 102
 No. Test Piles: 3
 Piles shall be driven through 24" diameter precored holes extending to an elevation 20 ft. below existing ground surface according to Article 512.09(c) of the Standard Specifications. Cost included in Driving Piles.

Notes:
 Work this sheet with Sheets 48, 49, 51, & 52.
 For Section thru Abutment see Sheet 52.

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FILE NAME = 0450079-60122-050-Abut.N3.dgn	USER NAME = jehrhart	DESIGNED - MJL	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH ABUTMENT - 3 STRUCTURE NO. 045-0079	F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 216		
PLOT SCALE = 1:4	DRAWN - RJ	REVISD -	SHEET NO. 50 OF 67 SHEETS			CONTRACT NO. 60122		ILLINOIS FED. AID PROJECT				
PLOT DATE = 3/20/2012	CHECKED - PMH	REVISD -										



Notes:
 For Pile Data see sheet 50.
 For Section thru Abutment see Sheet 52.
 Work this sheet with Sheets 48, 49, 50 and 52.

FILE NAME =	USER NAME = jahrhart	DESIGNED - MJL	REVISD -
0450279-60122-051-Abut.N4.dgn		CHECKED - PMH	REVISD -
		DRAWN - RJ	REVISD -
		CHECKED - PMH	REVISD -

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PLOT DATE = 3/20/2012			

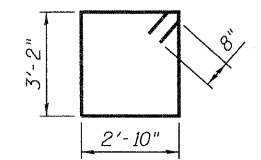
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT - 4
STRUCTURE NO. 045-0079
 SHEET NO. 51 OF 67 SHEETS

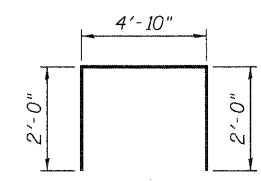
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	LY (HB & VB)	DUPAGE/KANE	421	217
				CONTRACT NO. 60122
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

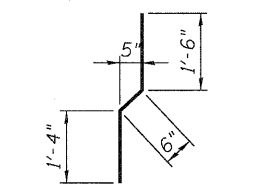
Bar	No.	Size	Length	Shape
h1(E)	42	#5	29'-10"	
h2(E)	84	#5	31'-10"	
h3(E)	42	#5	30'-9"	
h4(E)	105	#5	16'-11"	
h5(E)	15	#6	30'-4"	
h6(E)	30	#6	32'-4"	
h7(E)	15	#6	31'-4"	
h8(E)	60	#5	7'-2"	
h9(E)	12	#5	14'-2"	
h20(E)	3	#5	26'-7"	
h21(E)	3	#5	18'-0"	
h24(E)	18	#5	4'-8"	
p1(E)	48	#8	32'-5"	
p12(E)	96	#8	34'-6"	
p13(E)	48	#8	33'-5"	
p14(E)	12	#7	30'-8"	
p15(E)	24	#7	32'-7"	
p16(E)	12	#7	31'-5"	
s1(E)	638	#6	13'-4"	
u1(E)	245	#5	8'-10"	
v1(E)	345	#5	9'-8"	
v2(E)	345	#4	3'-4"	
v3(E)	345	#5	3'-9"	
v4(E)	345	#5	11'-2"	
v5(E)	36	#5	11'-4"	
v6(E)	26	#5	7'-7"	
v19(E)	2	#5	9'-9"	
Concrete Structures				
			Cu. Yd.	441.8
Reinforcement Bars, Epoxy Coated				
			Pound	56,700
Furnishing Metal Shell Piles 14" X 0.250"				
			Foot	8,772
Driving Piles				
			Foot	8,772
Test Pile Metal Shells				
			Each	3
Concrete Sealer				
			Sq. Ft.	4,760
Mechanically Stabilized Earth Retaining Wall				
			Sq. Ft.	17,876
Removal and Disposal of Unsuitable Material for Structures				
			Cu. Yd.	665



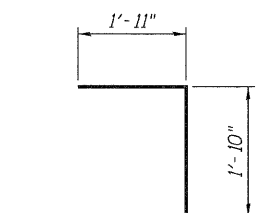
BAR s1(E)



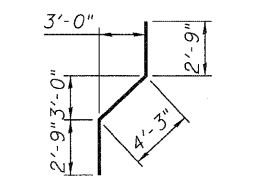
BAR u1(E)



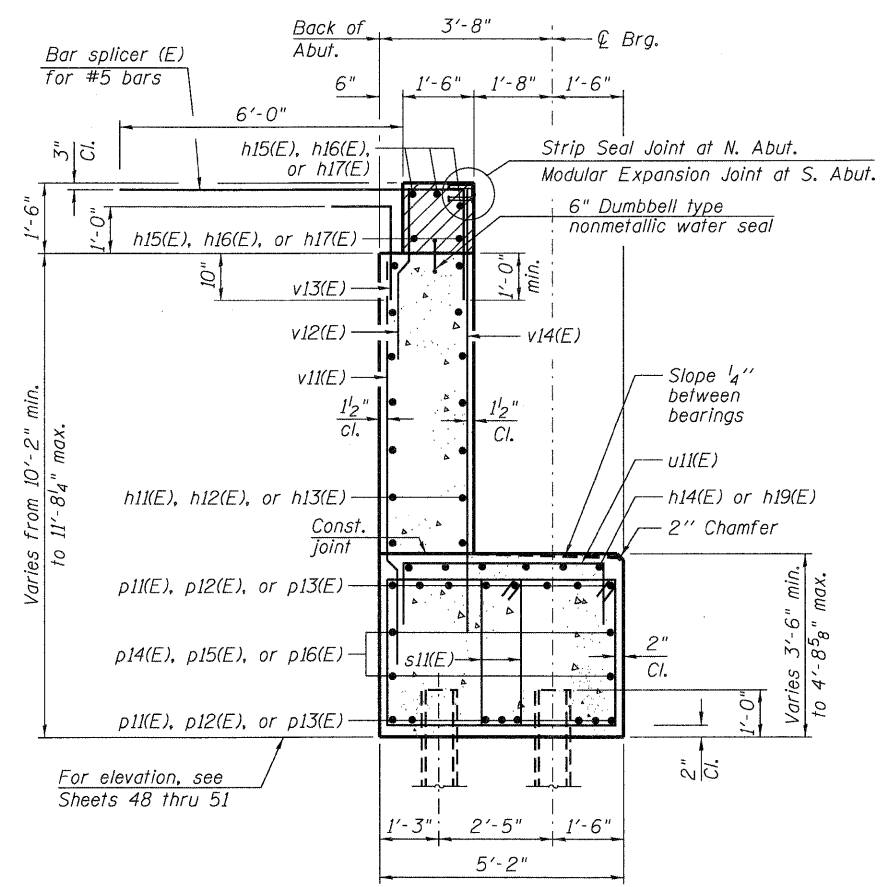
BAR v12(E)



BAR v13(E)

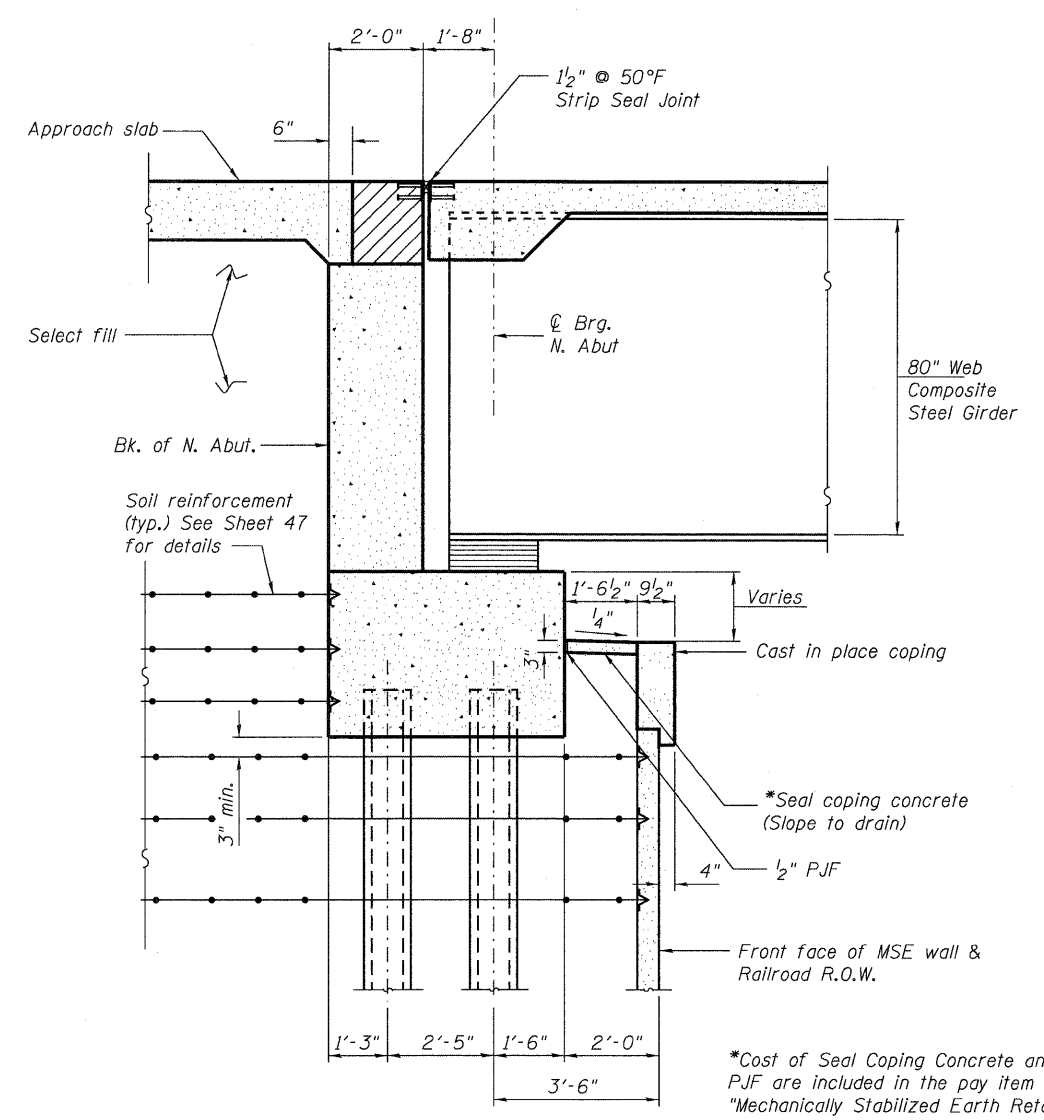


BAR v19(E)

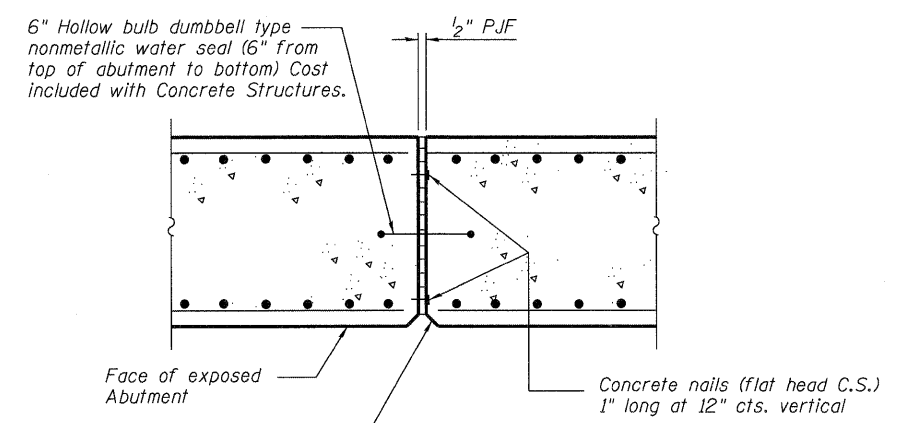


Note:
Soil reinforcement and coping are not shown see "Section thru Abutment Showing reinforcement and Coping" for details.

SECTION THRU ABUTMENT
Showing Reinforcement Bars



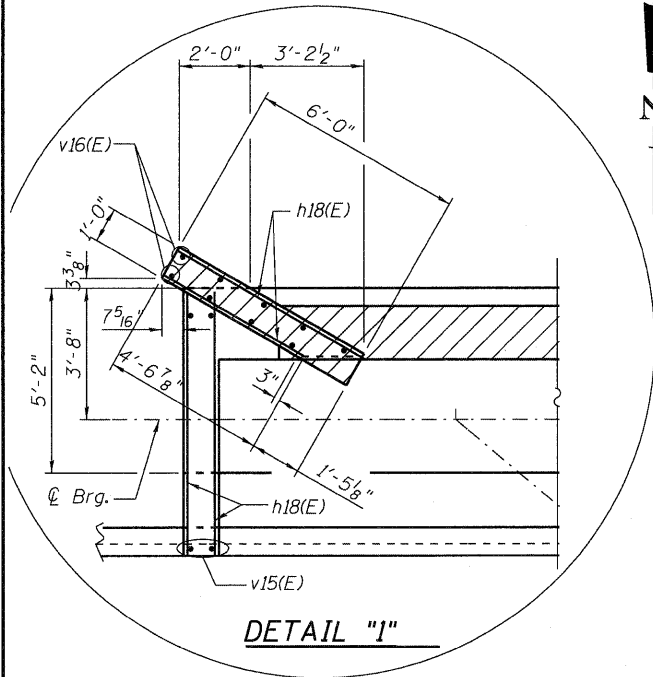
SECTION THRU ABUTMENT
Showing Soil Reinforcement and Coping



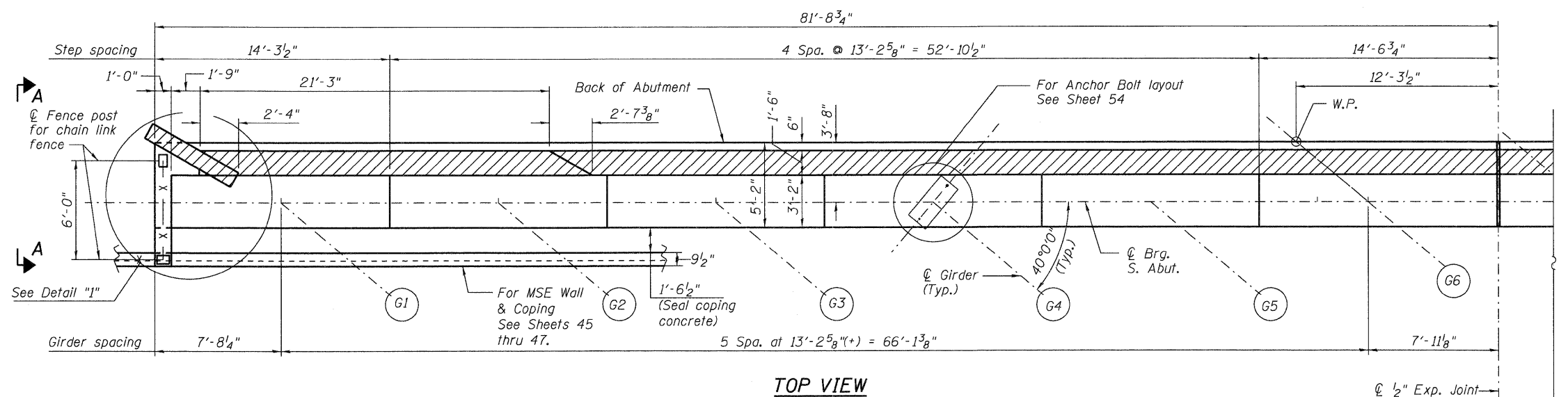
EXPANSION JOINT DETAIL

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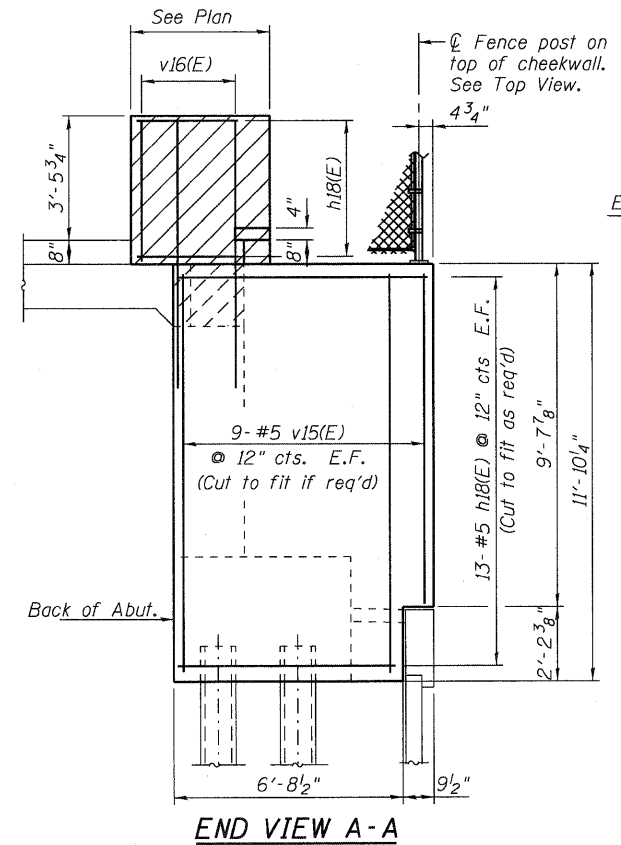
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PLOT SCALE = 1:4	DRAWN - RJ	REVISIONS -	SHEET NO. 52 OF 67 SHEETS			CONTRACT NO. 60122						
PLOT DATE = 3/28/2012	CHECKED - PMH	REVISIONS -	ILLINOIS FED. AID PROJECT									



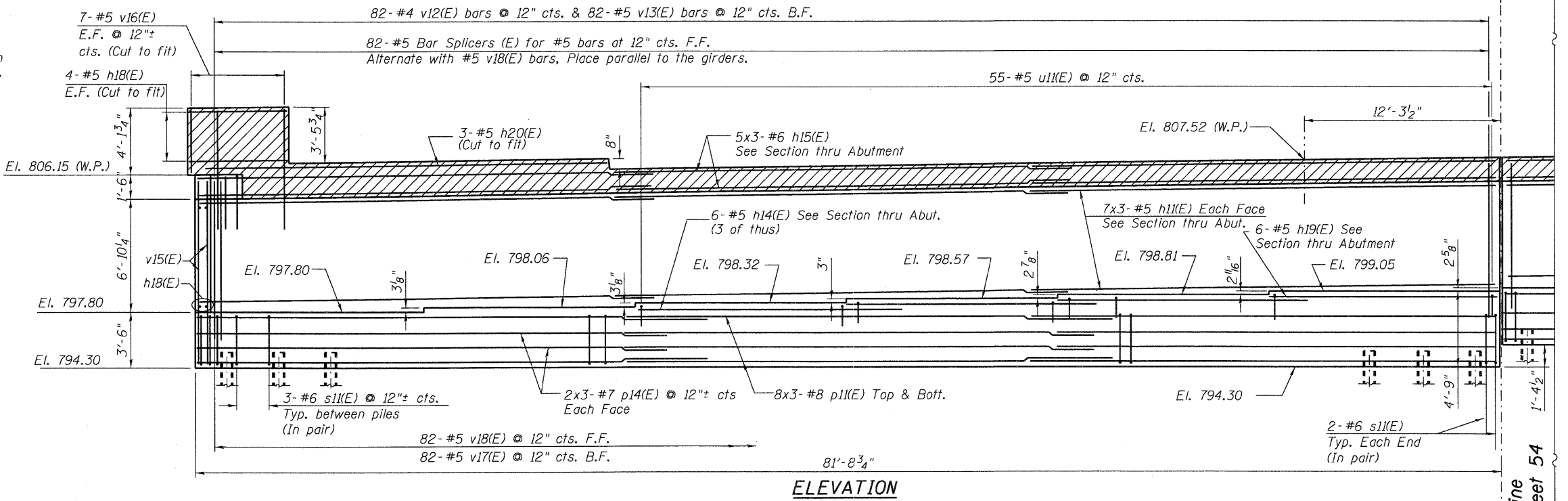
DETAIL "I"



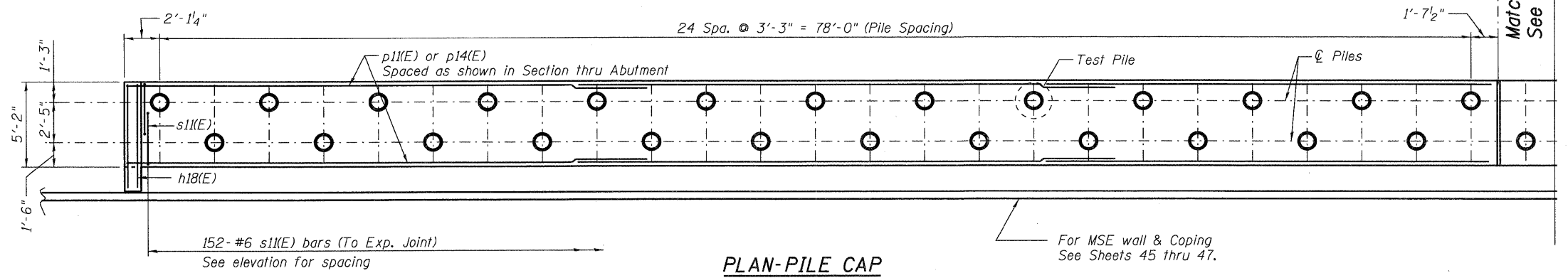
TOP VIEW



END VIEW A-A



ELEVATION

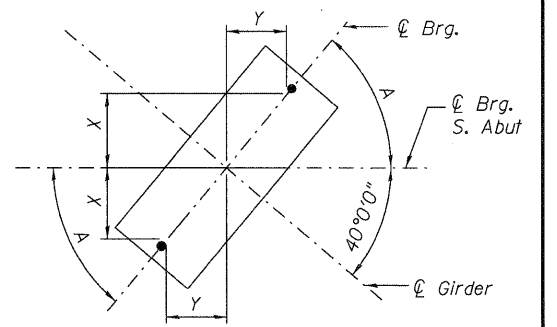
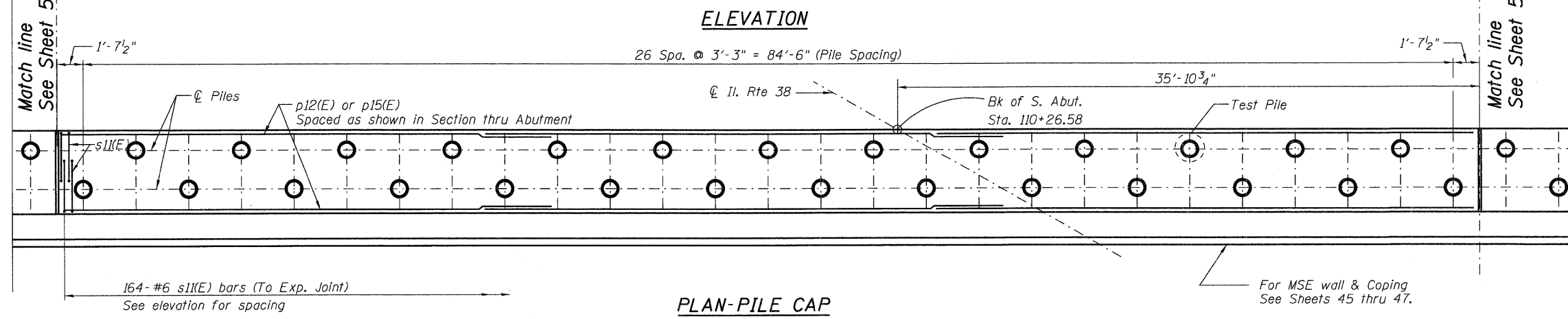
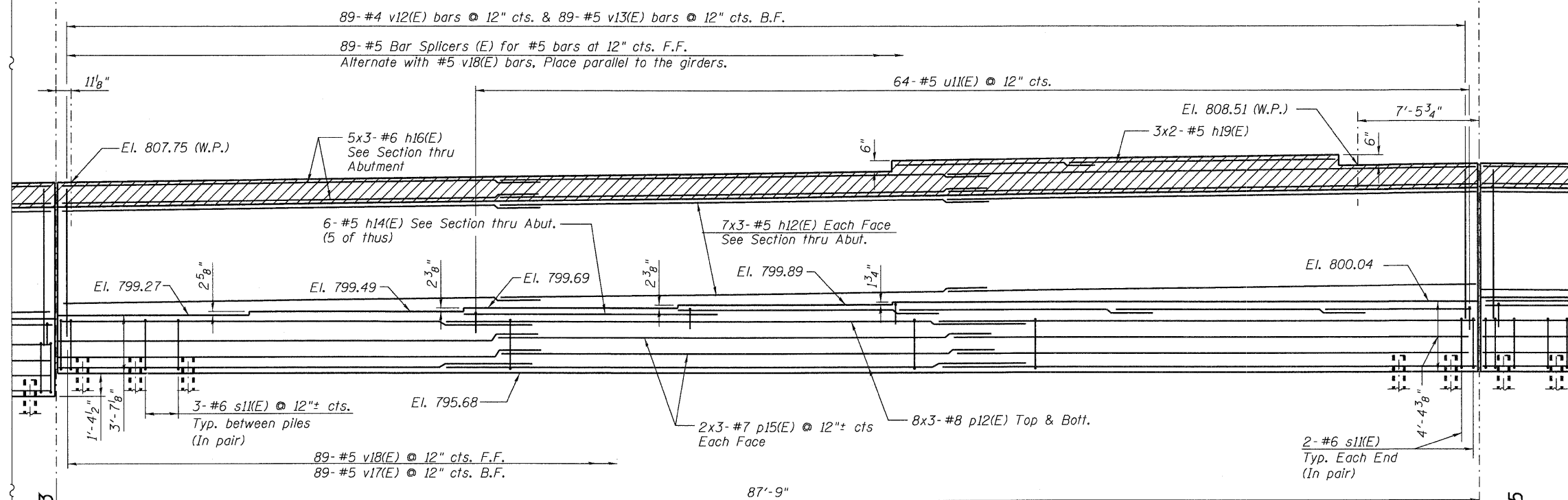
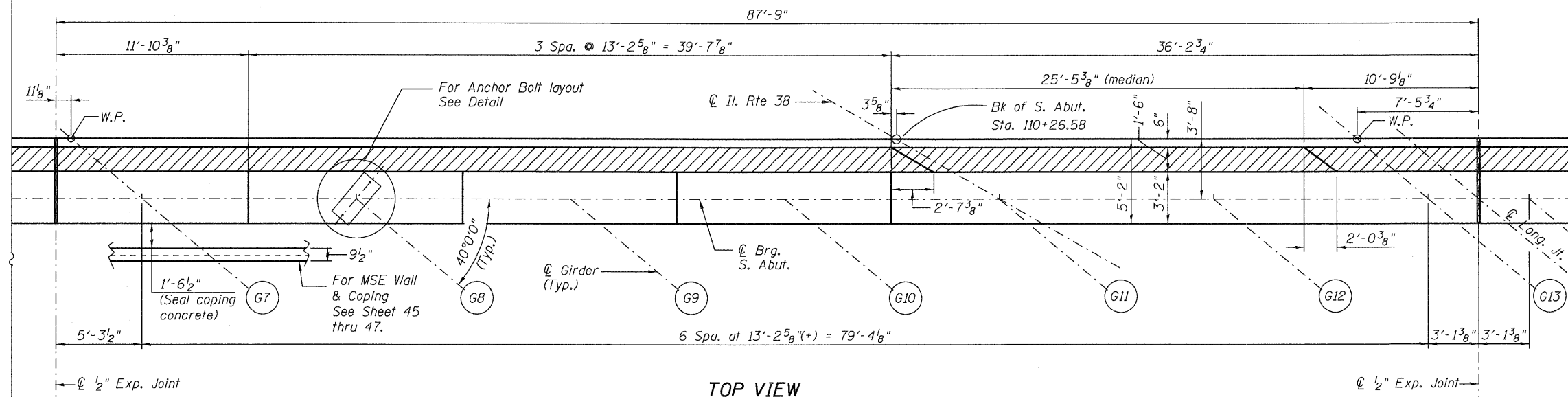


PLAN-PILE CAP

Notes:
 For Pile Data see Sheet 55.
 For Section thru Abutment see Sheet 57.
 For Fence details see Sheet 30.

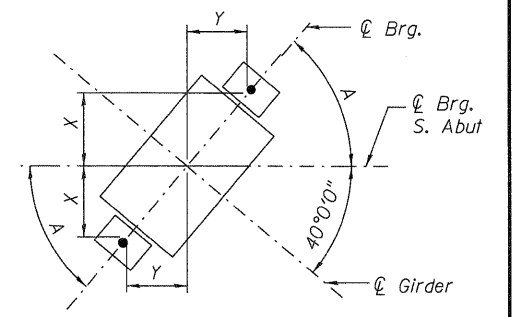
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FILE NAME = 0450079-60122-053-Abut.S1.dgn	USER NAME = jehrhart	DESIGNED - MJL	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOUTH ABUTMENT - 1 STRUCTURE NO. 045-0079	F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 219	
PLOT SCALE = 1:4	DRAWN - RJ	CHECKED - PMH	REVISD -			CONTRACT NO. 60122					
PLOT DATE = 3/28/2012	CHECKED - PMH	REVISD -	REVISD -			ILLINOIS FED. AID PROJECT					
SHEET NO. 53 OF 67 SHEETS											



TYPE II ELASTOMERIC BEARING ANCHOR BOLT LAYOUT
Girders G1 thru G13

GIRDER	X	Y	A
G1-G13	1'-0 ⁷ / ₈ "	10 ⁷ / ₈ "	50°0'00"



TYPE I ELASTOMERIC BEARING ANCHOR BOLT LAYOUT
Girders G14 thru G26

GIRDER	X	Y	A
G14-G26	1'-0 ⁷ / ₈ "	10 ⁷ / ₈ "	50°0'00"

Notes:
For Pile Data see Sheet 55.
For Section thru Abutment see Sheet 57.
Work this sheet with Sheet 53, 55 thru 57.

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FILE NAME = 0450079-60122-054-Abut.S2.dgn

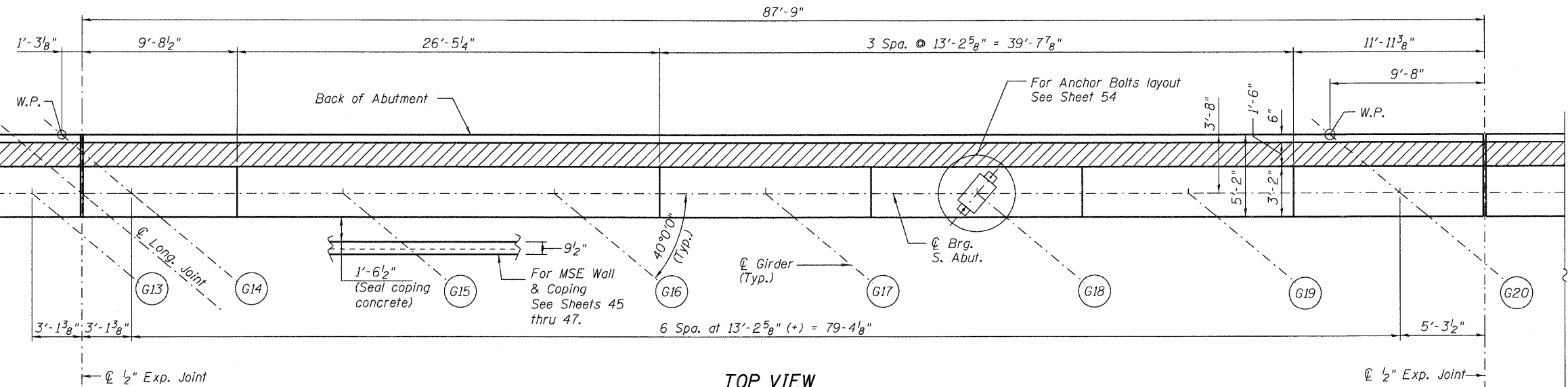
USER NAME = jehrhert
DESIGNED - MJL
CHECKED - PMH
DRAWN - RJ
CHECKED - PMH

REVISIONS:
REVISOR -
DATE -
REVISOR -
DATE -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT - 2
STRUCTURE NO. 045-0079
SHEET NO. 54 OF 67 SHEETS

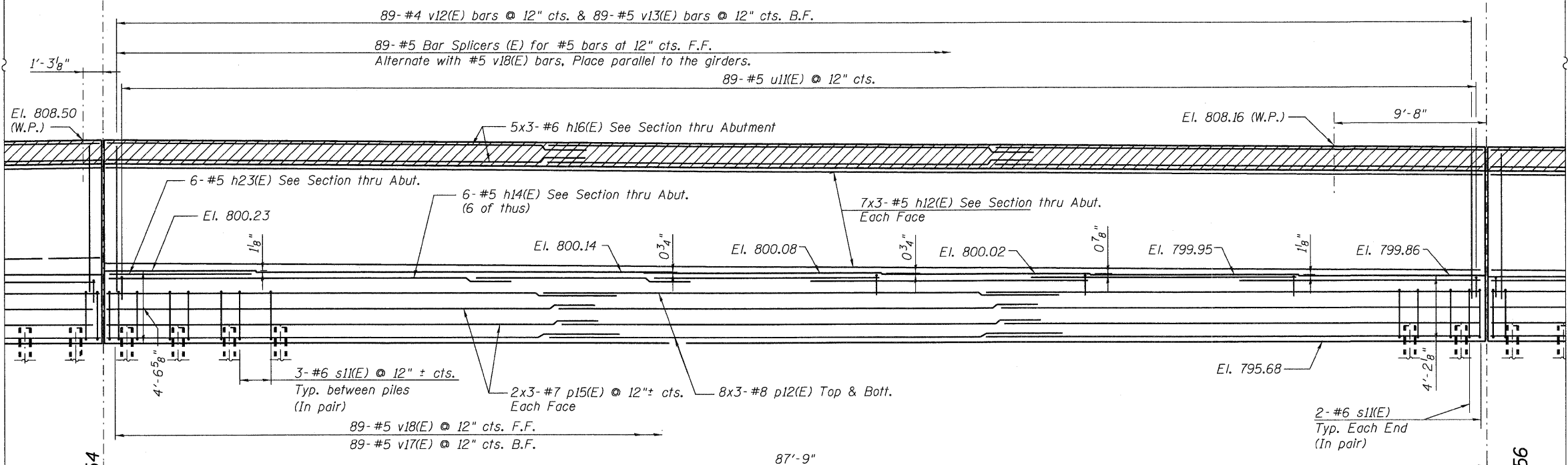
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	LY (HB & VB)	DUPAGE/KANE	421	220
				CONTRACT NO. 60122
ILLINOIS FED. AID PROJECT				



TOP VIEW

MINIMUM BAR LAP
(Abutment)

Other Bars	Top Bars
#5 bars = 3'-3"	#5 bars = 3'-8"
	#6 bars = 4'-5"
	#7 bars = 4'-8"
	#8 bars = 7'-8"



PLAN-PILE CAP

PILE DATA

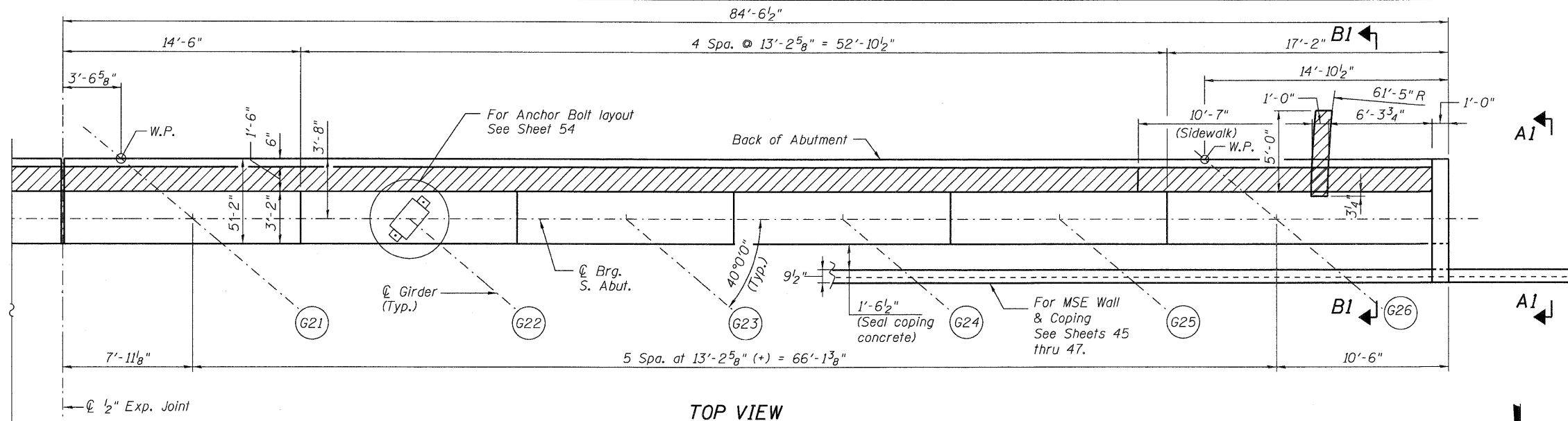
Type:	Metal Shell
Nominal Required Bearing:	14 in. dia. X 0.250 in. Walls 304 kips
Factored Resistance Available:	167 kips
Est. Length:	87 ft.
No. Production Piles:	102
No. Test Piles:	3

Pile shall be driven through 24" diameter precored holes extending to an elevation 20 ft. below existing ground surface according to Article 512.09(c) of the Standard Specifications. Cost included with driving piles.

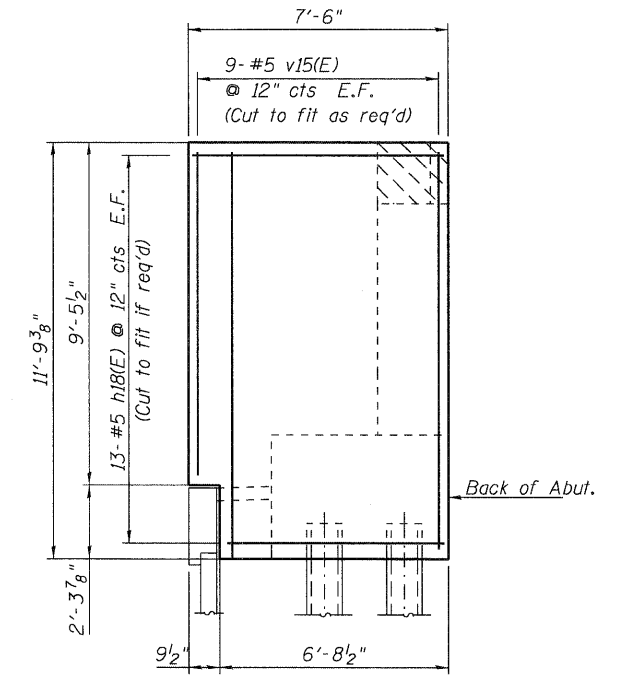
Notes:
Work this sheet with Sheets 53, 54, 56 and 57.
For Section thru Abutment see Sheet 57.

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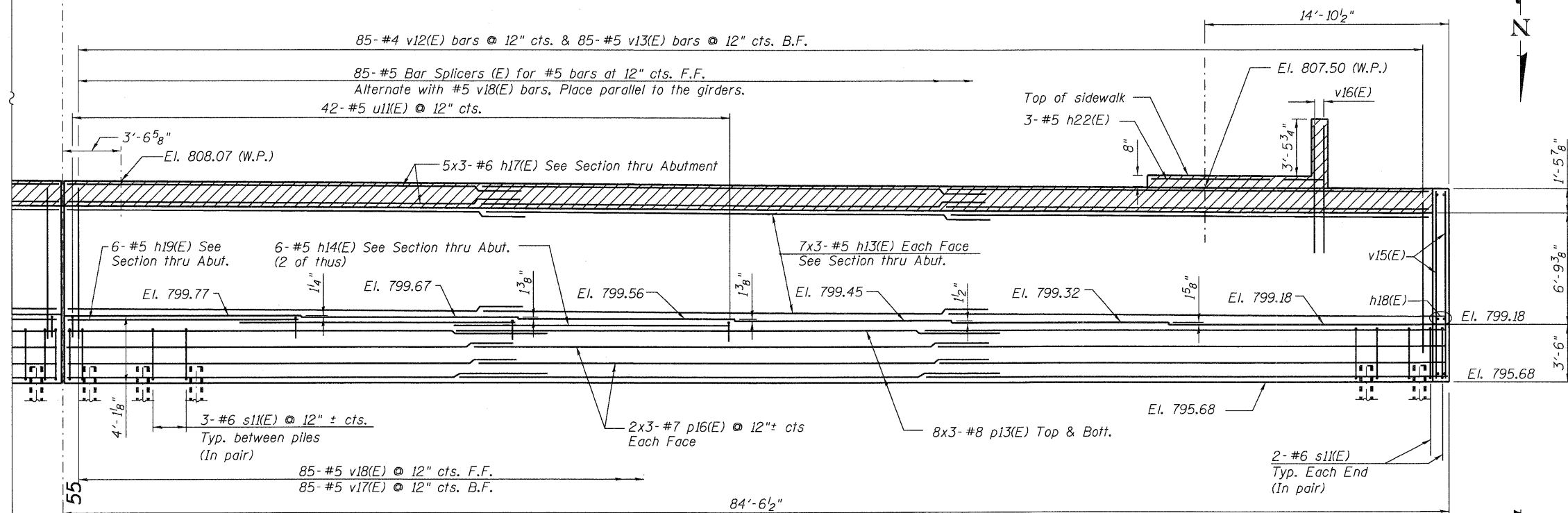
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PLOT SCALE = 1:4	DRAWN - RJ	REVISD -				CONTRACT NO. 60122				
PLOT DATE = 3/20/2012	CHECKED - PMH	REVISD -				ILLINOIS FED. AID PROJECT				



TOP VIEW

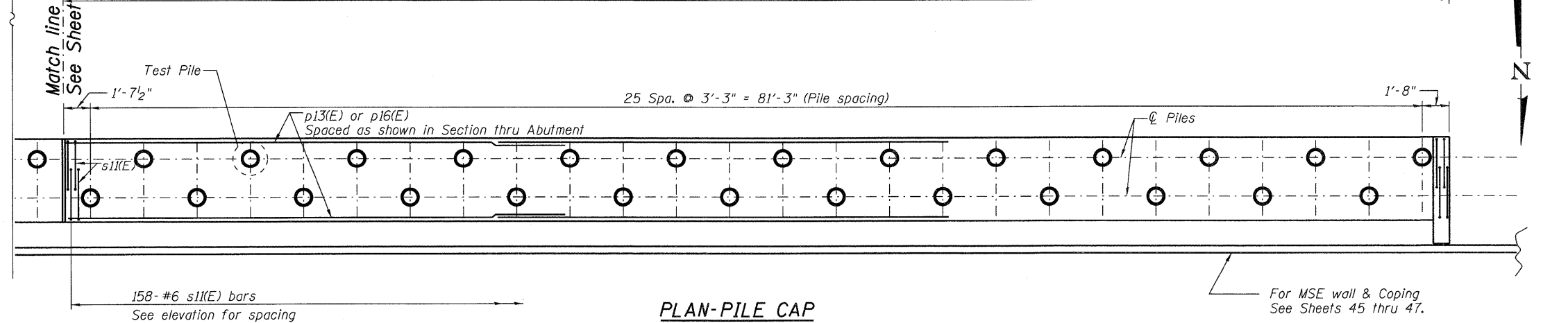


END VIEW A1-A1



SECTION B1-B1

Note: See Eastbound Parapet Plan and Elevation Sheet 20.



PLAN-PILE CAP

Notes:
For Pile Data see Sheet 55.
For Section thru Abutment see Sheet 57.
Work this sheet with Sheets 53 thru 55 and 57.

FILE NAME =	USER NAME = jehrhert	DESIGNED - MJL	REVISED -
0450079-60122-056-Abut.S4.dgn		CHECKED - PMH	REVISED -
		DRAWN - RJ	REVISED -
		CHECKED - PMH	REVISED -

DESIGNED - MJL	REVISED -
CHECKED - PMH	REVISED -
DRAWN - RJ	REVISED -
CHECKED - PMH	REVISED -

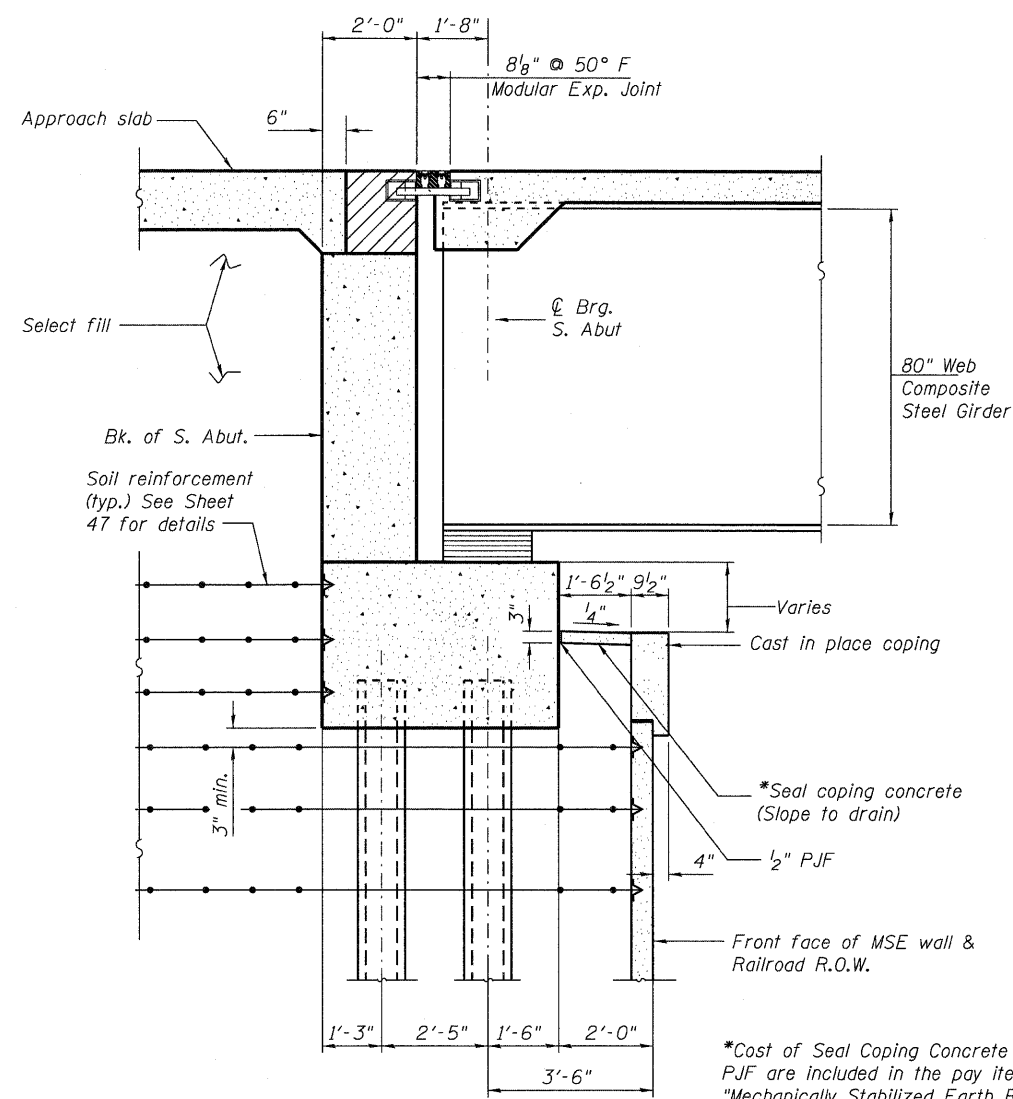
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT - 4
STRUCTURE NO. 045-0079
SHEET NO. 56 OF 67 SHEETS

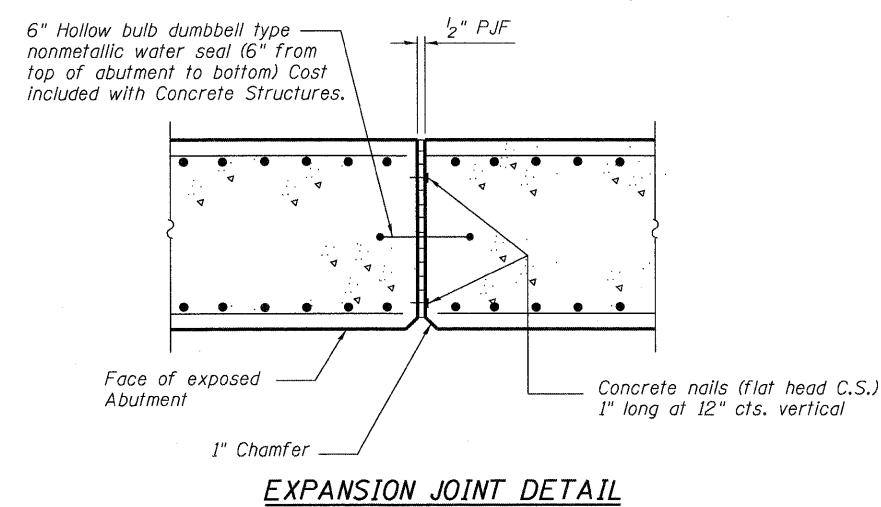
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	LY (HB & VB)	DUPAGE/KANE	421	222
				CONTRACT NO. 60122
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

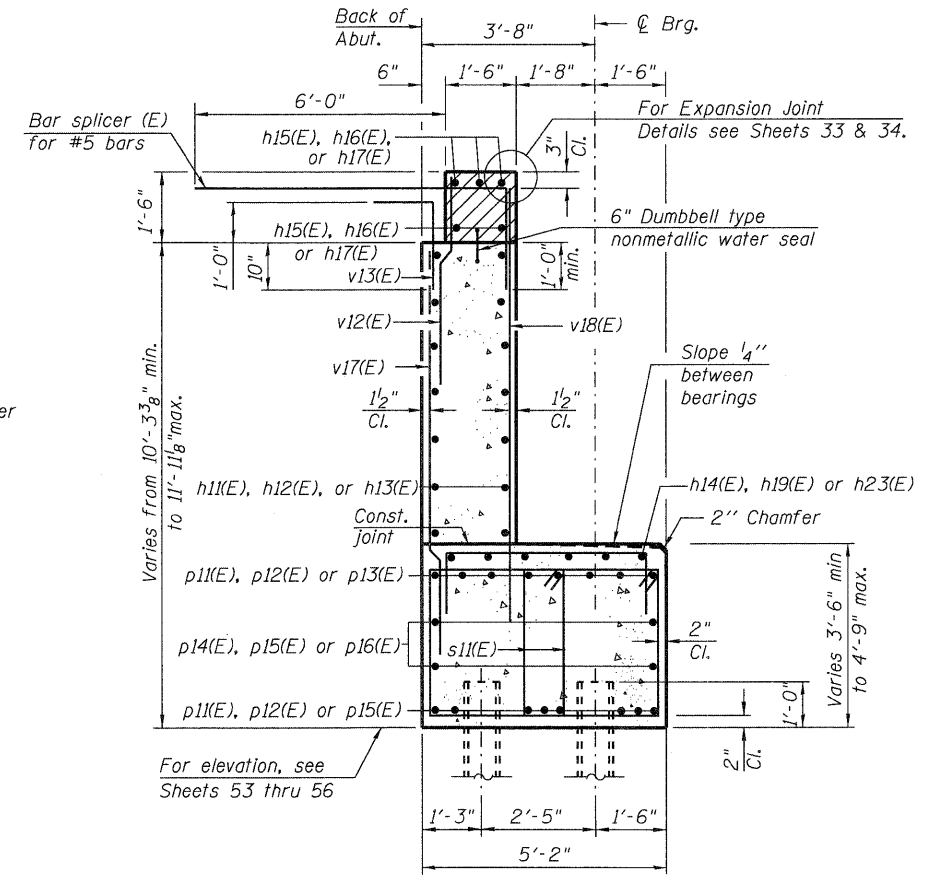
Bar	No.	Size	Length	Shape
h11(E)	42	#5	29'-10"	
h12(E)	84	#5	31'-10"	
h13(E)	42	#5	30'-9"	
h14(E)	96	#5	16'-11"	
h15(E)	15	#6	30'-4"	
h16(E)	30	#6	32'-4"	
h17(E)	15	#6	31'-4"	
h18(E)	60	#5	7'-2"	
h19(E)	18	#5	14'-2"	
h20(E)	3	#5	26'-7"	
h22(E)	3	#5	11'-3"	
h23(E)	6	#5	9'-4"	
h24(E)	18	#5	4'-8"	
p11(E)	48	#8	32'-5"	
p12(E)	96	#8	34'-6"	
p13(E)	48	#8	33'-5"	
p14(E)	12	#7	30'-8"	
p15(E)	24	#7	32'-7"	
p16(E)	12	#7	31'-5"	
s11(E)	638	#6	13'-4"	
u11(E)	250	#5	8'-10"	
v12(E)	345	#4	3'-4"	
v13(E)	345	#5	3'-9"	
v15(E)	36	#5	11'-4"	
v16(E)	26	#5	7'-7"	
v17(E)	345	#5	9'-10"	
v18(E)	345	#5	11'-4"	
v19(E)	2	#5	9'-9"	
Concrete Structures			Cu. Yd.	447.1
Reinforcement Bars, Epoxy Coated			Pound	56,830
Furnishing Metal Shell Piles 14" X 0.250"			Foot	8,874
Driving Piles			Foot	8,874
Test Pile Metal Shells			Each	3
Concrete Sealer			Sq. Ft.	4,820
Mechanically Stabilized Earth Retaining Wall			Sq. Ft.	18,835
Removal and Disposal of Unsuitable Material for Structures			Cu. Yd.	2,063



SECTION THRU ABUTMENT
Showing Soil Reinforcement and Coping

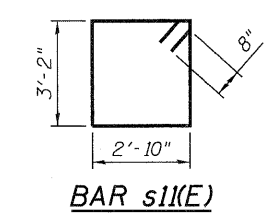


EXPANSION JOINT DETAIL

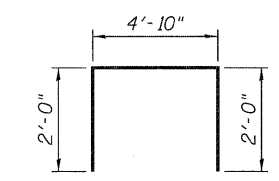


SECTION THRU ABUTMENT
Showing Reinforcement Bars

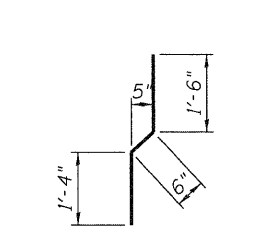
Note:
Soil reinforcement and coping are not shown see "Section Thru Abutment showing Soil Reinforcement and Coping" for details.



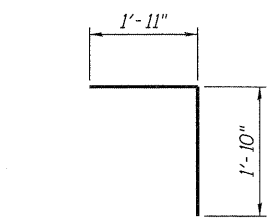
BAR s11(E)



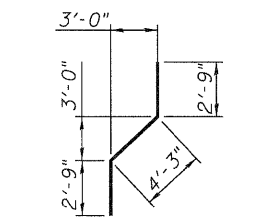
BAR u11(E)



BAR v12(E)



BAR v13(E)



BAR v19(E)

*Cost of Seal Coping Concrete and P.J.F. are included in the pay item of "Mechanically Stabilized Earth Retaining Wall".

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FILE NAME = 0450279-60122-057-Abut_S5.dgn	USER NAME = jehrhart	DESIGNED - MJL	REVISIONS -
		CHECKED - PMH	REVISIONS -
		DRAWN - MJL	REVISIONS -
		CHECKED - PMH	REVISIONS -
			REVISIONS -

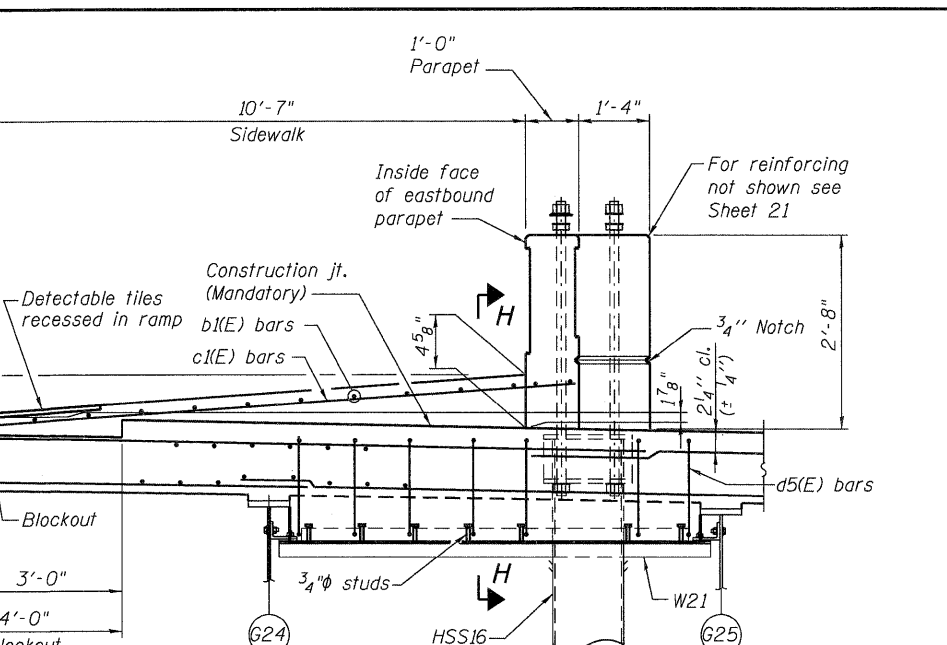
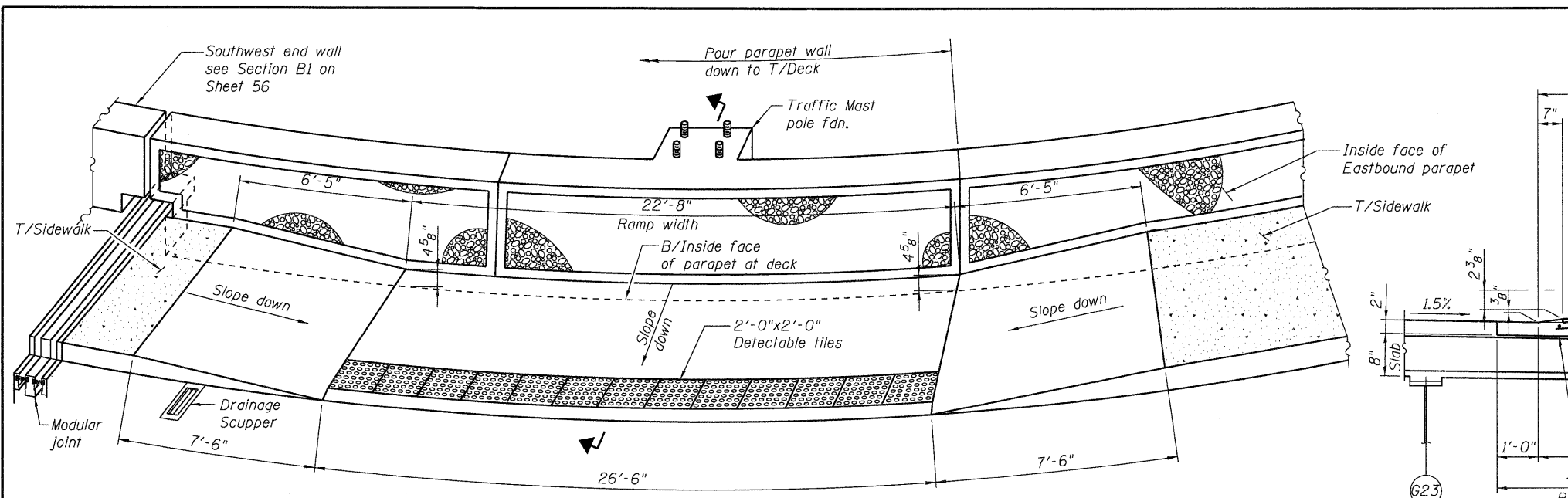
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 045-0079

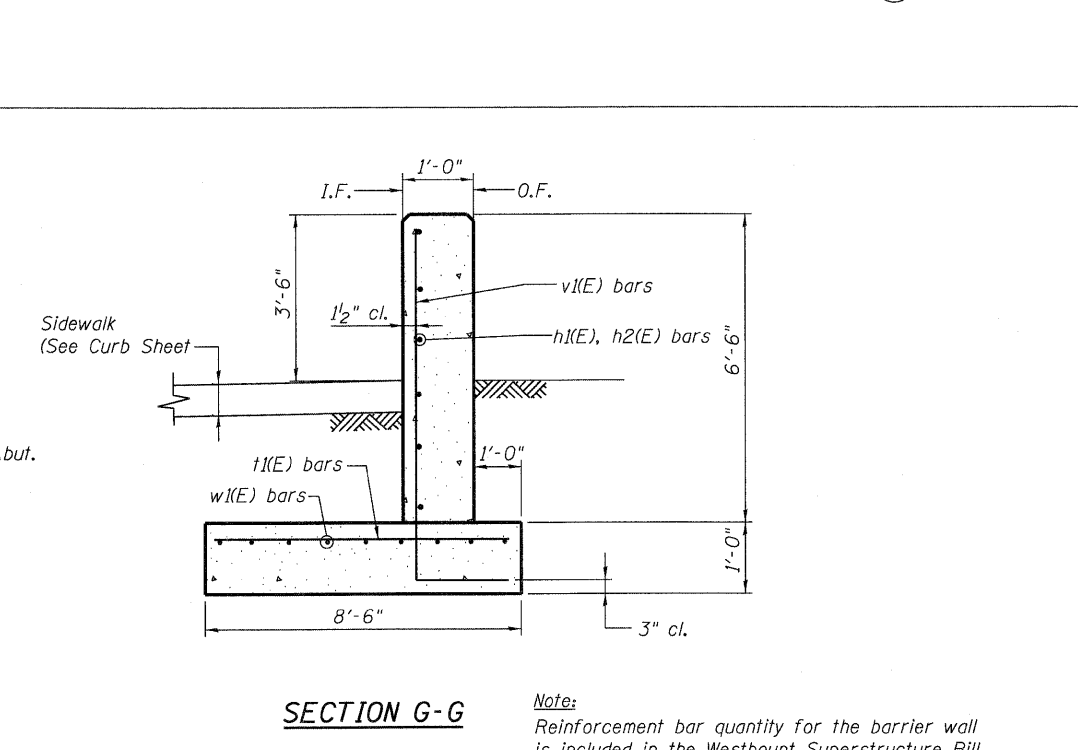
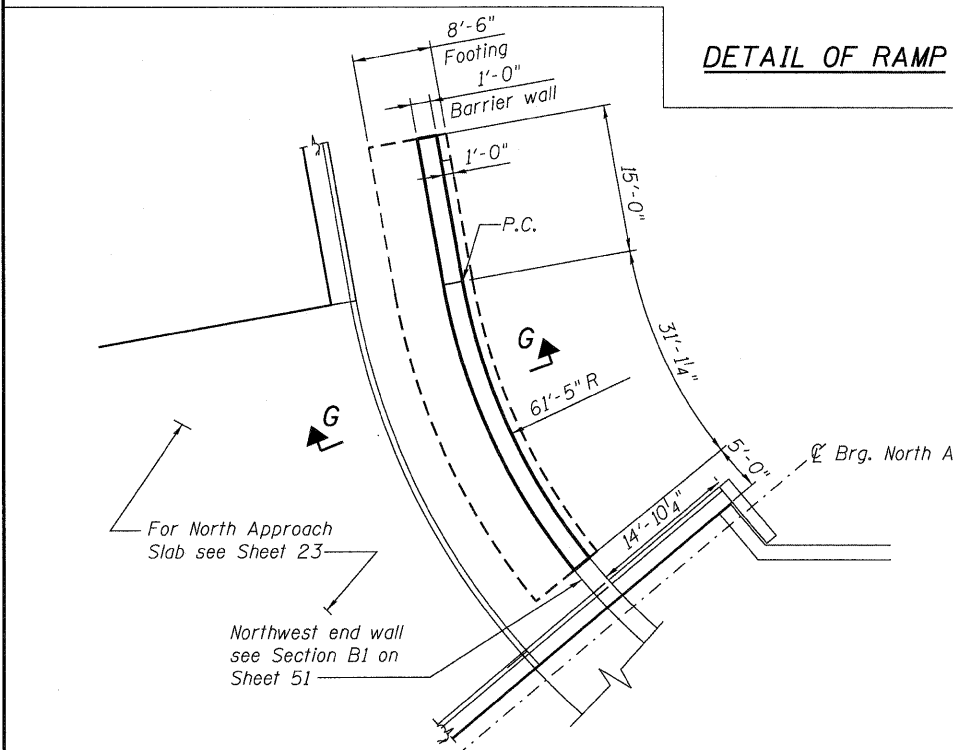
SHEET NO. 57 OF 67 SHEETS

F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 223
			CONTRACT NO. 60122	
ILLINOIS FED. AID PROJECT				

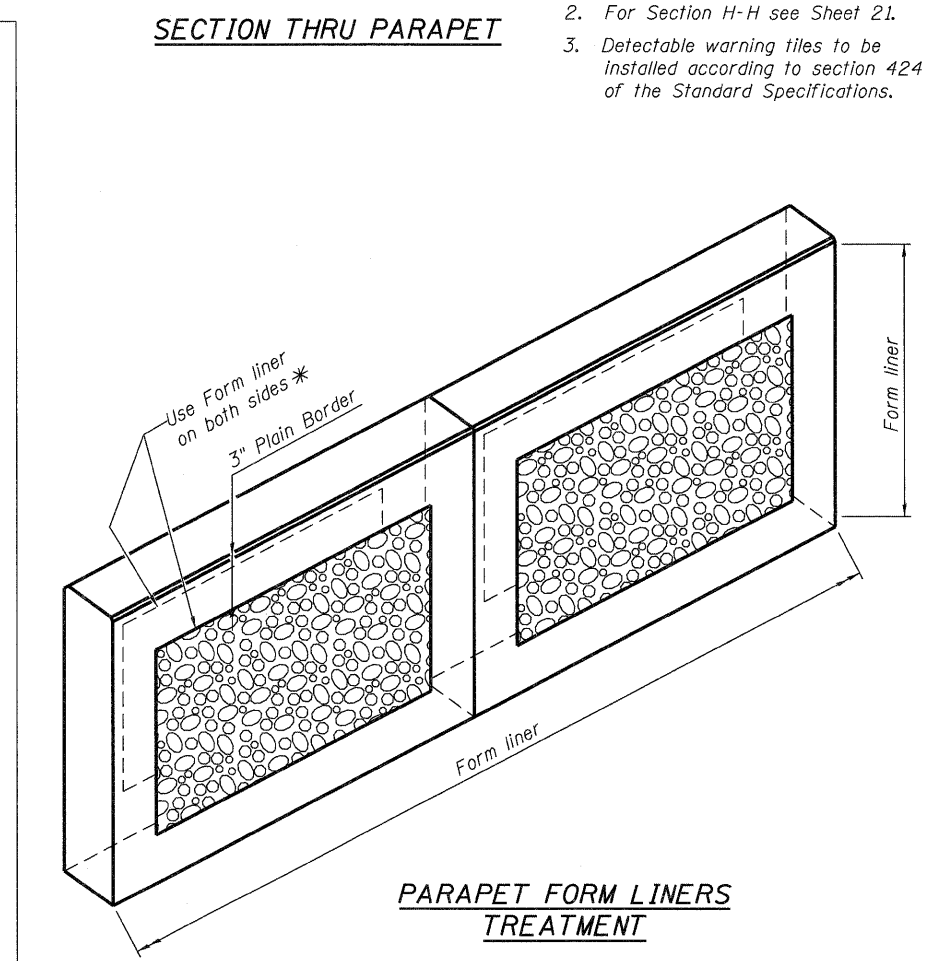
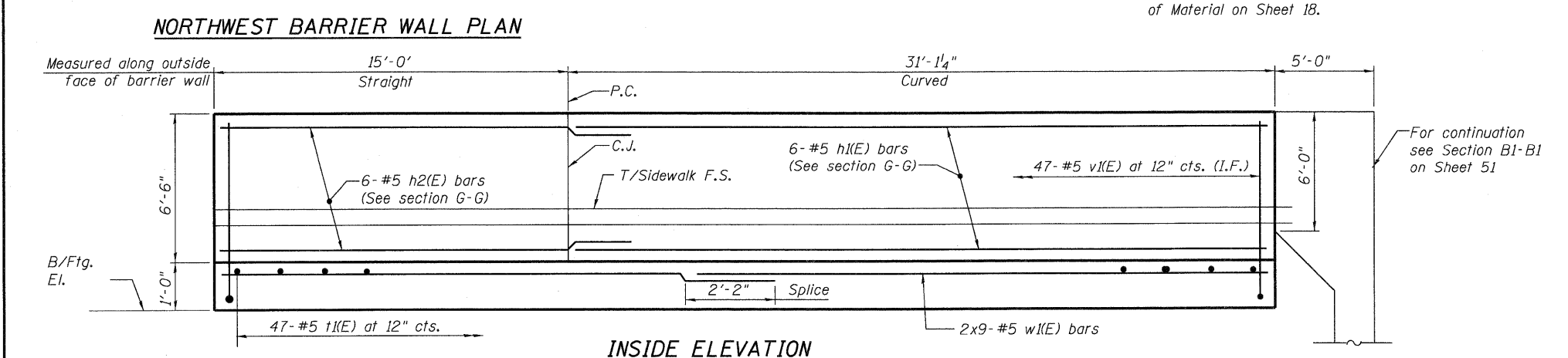
Notes:
Section thru Abutment showing hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.
Space reinforcement in cap to miss bolts.
Pour steps monolithically with cap.
Work this sheet with Sheets 53 thru 56.



- Note:
1. For Traffic Mast pole steel support framing see Sheet 41.
 2. For Section H-H see Sheet 21.
 3. Detectable warning tiles to be installed according to section 424 of the Standard Specifications.



Note:
Reinforcement bar quantity for the barrier wall is included in the Westbound Superstructure Bill of Material on Sheet 18.



* Form Liner Note:
See special provision for Form Liner Textured Surface. Pay limits are measured full height of parapet by length along each face.

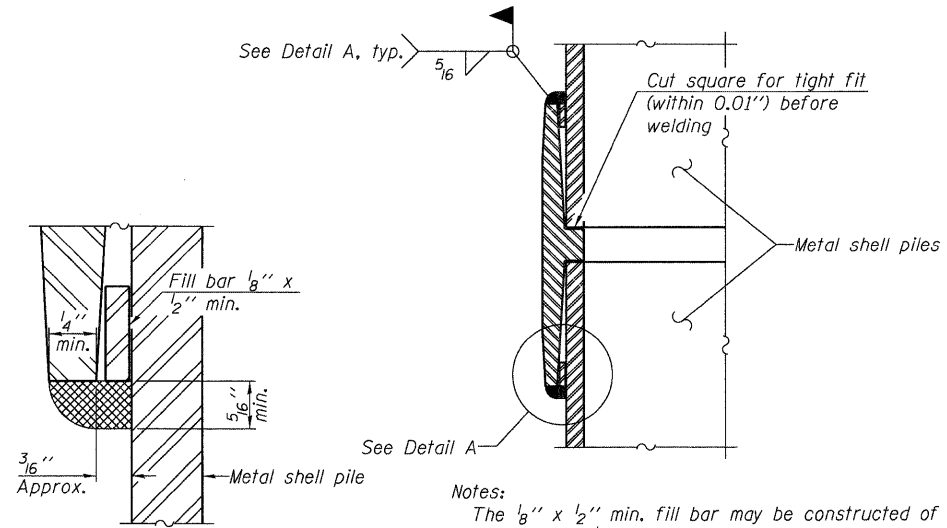
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130 East Randolph Street Chicago, Illinois 60601

FILE NAME =	USER NAME =	DESIGNED - JKD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB RAMP FOR SIDEWALK STRUCTURE NO. 045-0079	F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 224
PLOT SCALE =	DRAWN - JDK	REVISED -	SHEET NO. 58 OF 67 SHEETS			CONTRACT NO. 60122				
PLOT DATE =	CHECKED - GEK	REVISED -	ILLINOIS FED. AID PROJECT							



METAL SHELL PILE TABLE

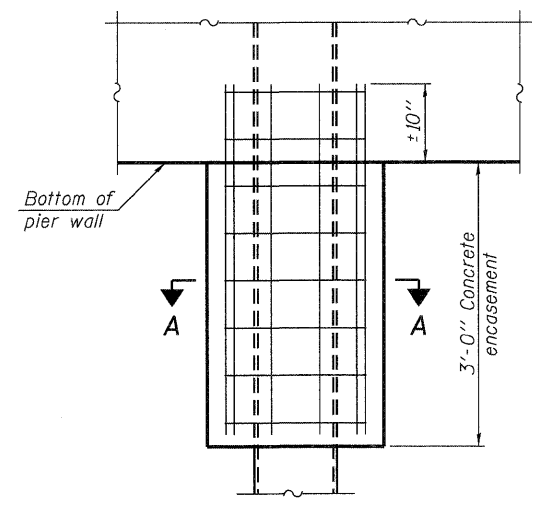
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



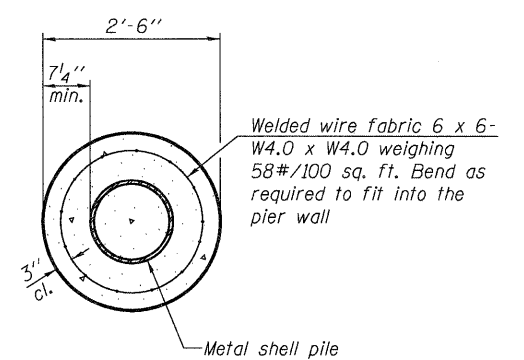
DETAIL A

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

WELDED COMMERCIAL SPLICE



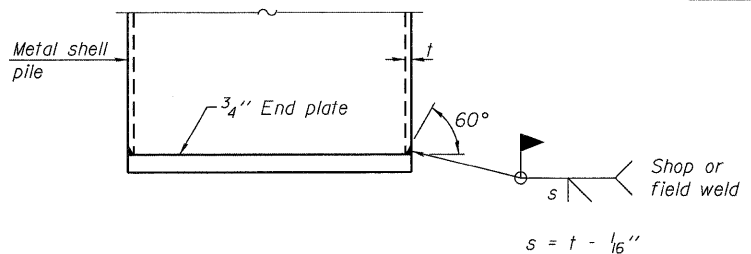
ELEVATION



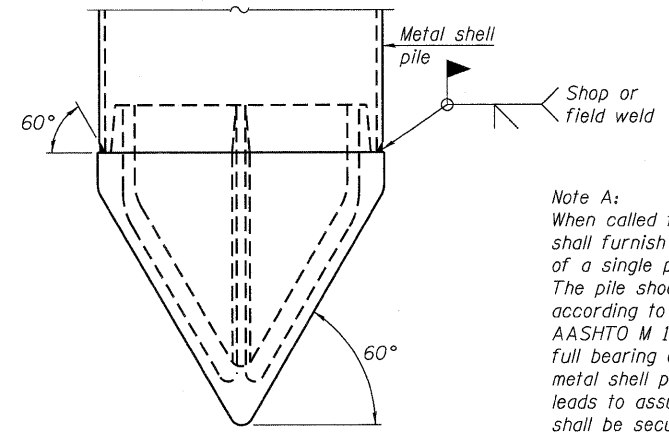
SECTION A-A

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

CONCRETE ENCASEMENT AT PIERS



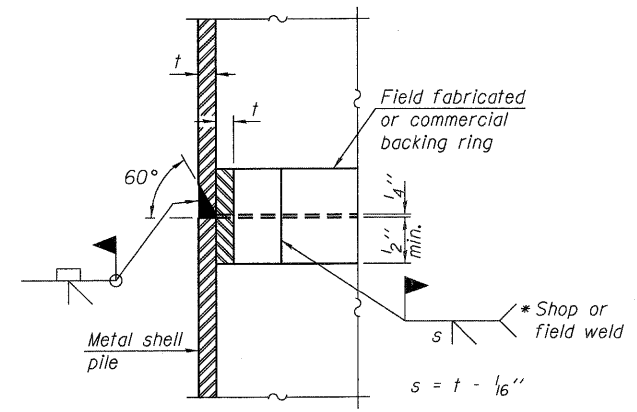
END PLATE ATTACHMENT



METAL SHELL PILE SHOE ATTACHMENT

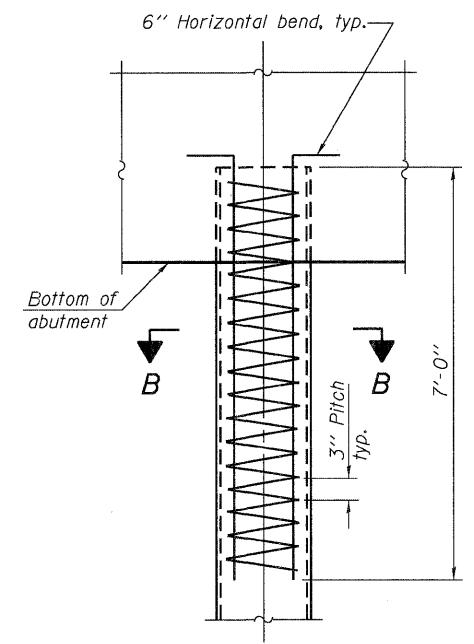
(See Note A)

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



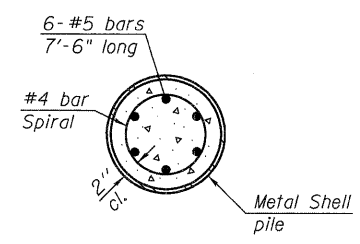
COMPLETE PENETRATION WELD SPLICE

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



ELEVATION

METAL SHELL REINFORCEMENT AT ABUTMENTS

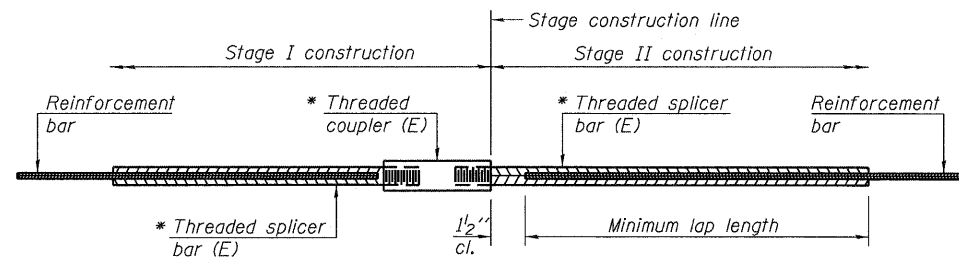


SECTION B-B

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

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F-MS	11-1-09	DESIGNED - MJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HP PILE DETAILS STRUCTURE NO. 045-0079	F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 225	
FILE NAME = 0450079-60122-059-Pile_Details.dgn	USER NAME = jehrhart	CHECKED - CEK	REVISED -			SHEET NO. 59 OF 67 SHEETS			CONTRACT NO. 60122		
		DRAWN - AMV	REVISED -			ILLINOIS FED. AID PROJECT					
		CHECKED - CEK	REVISED -								



STANDARD BAR SPLICER ASSEMBLY

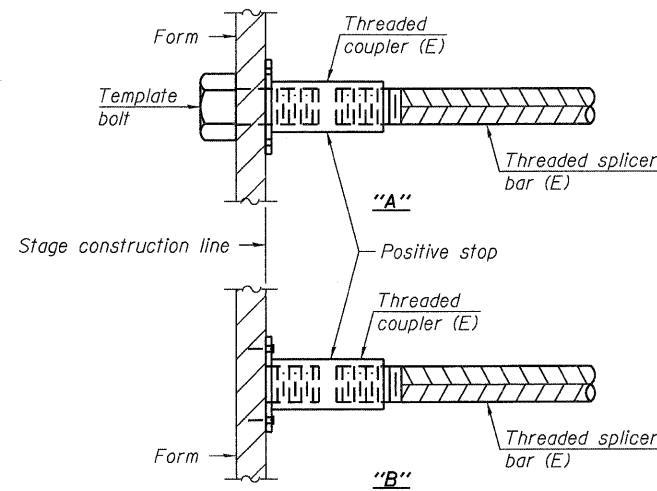
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

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

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

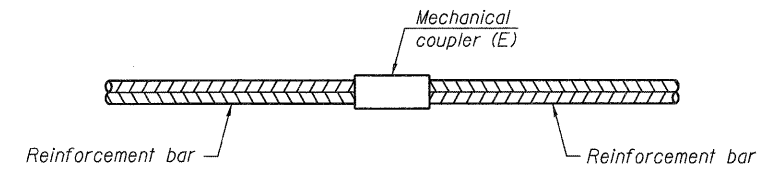
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

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



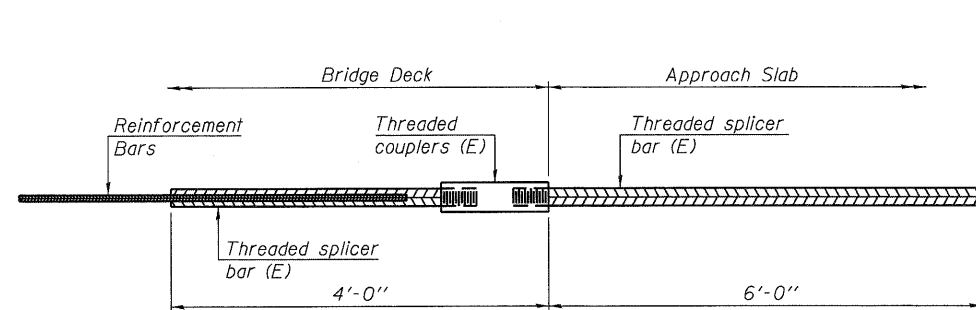
INSTALLATION AND SETTING METHODS

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



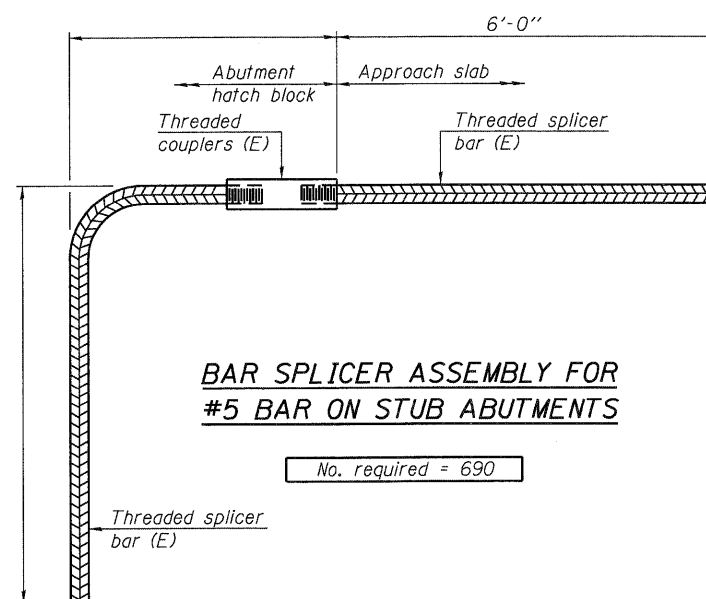
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

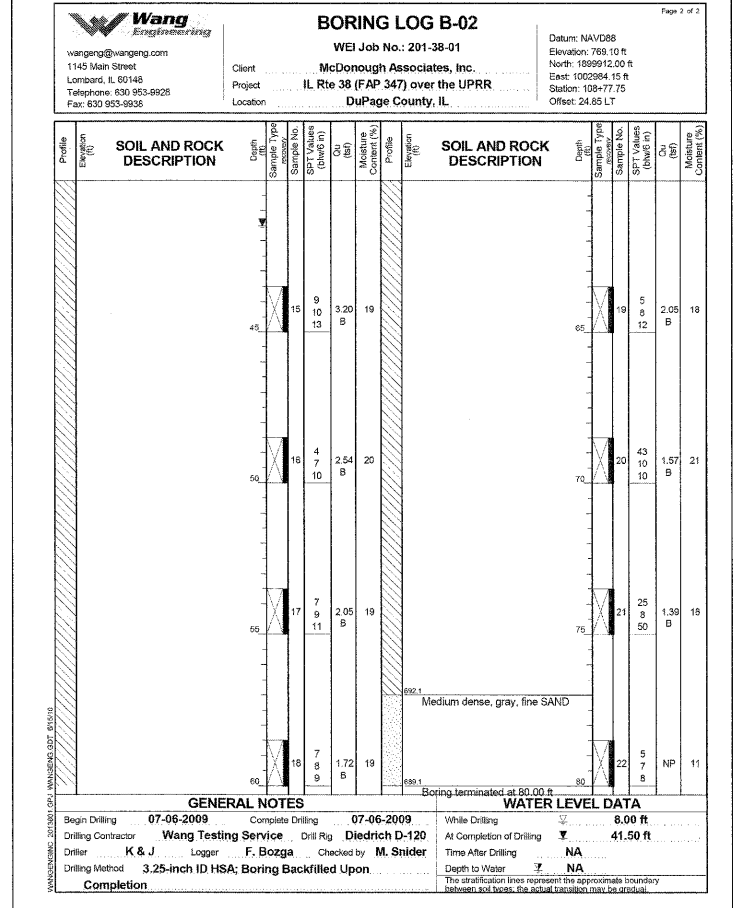
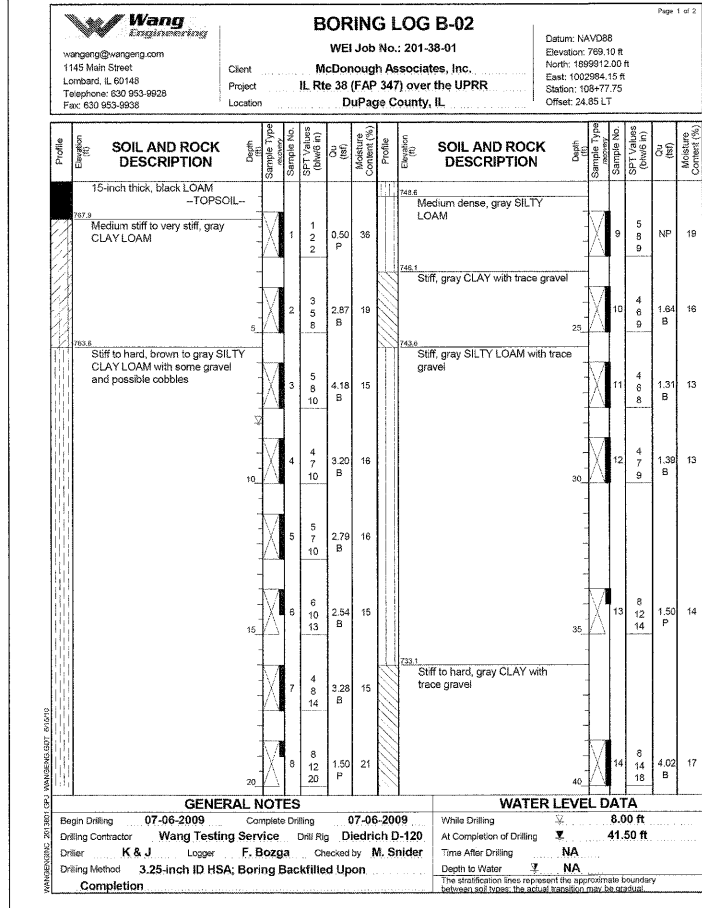
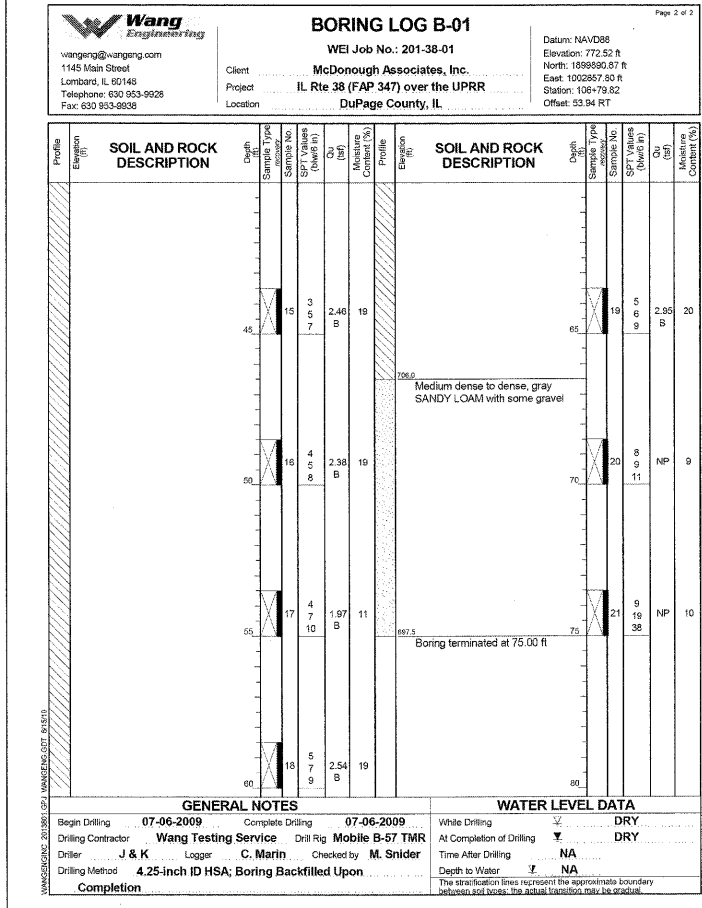
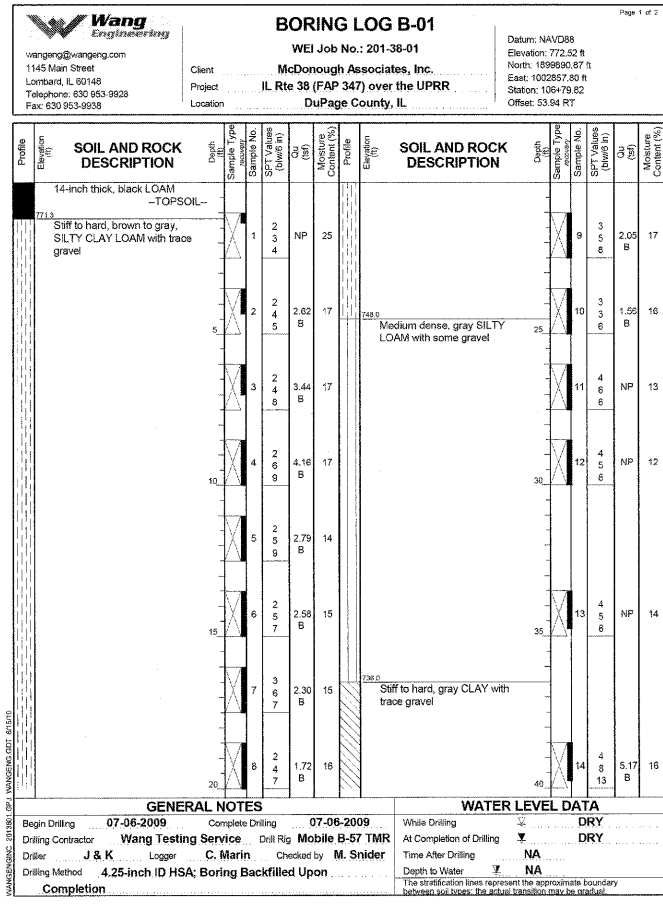
No. required = 690

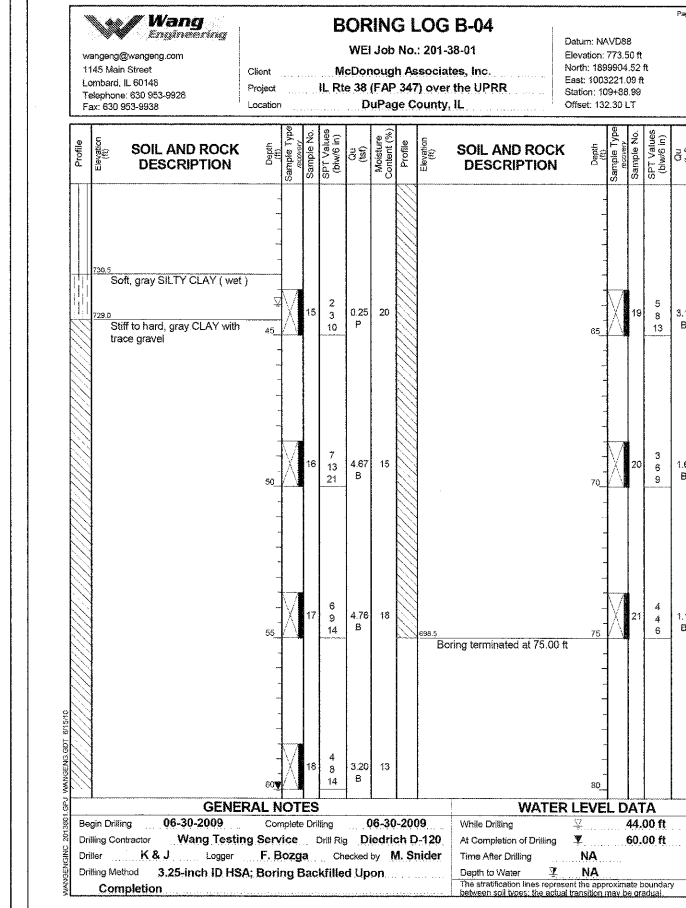
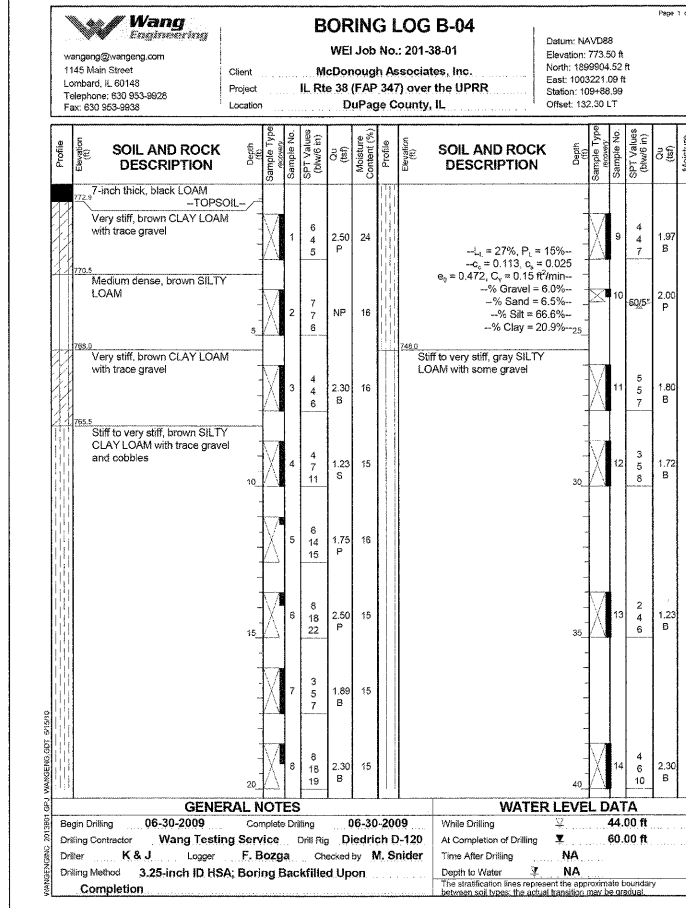
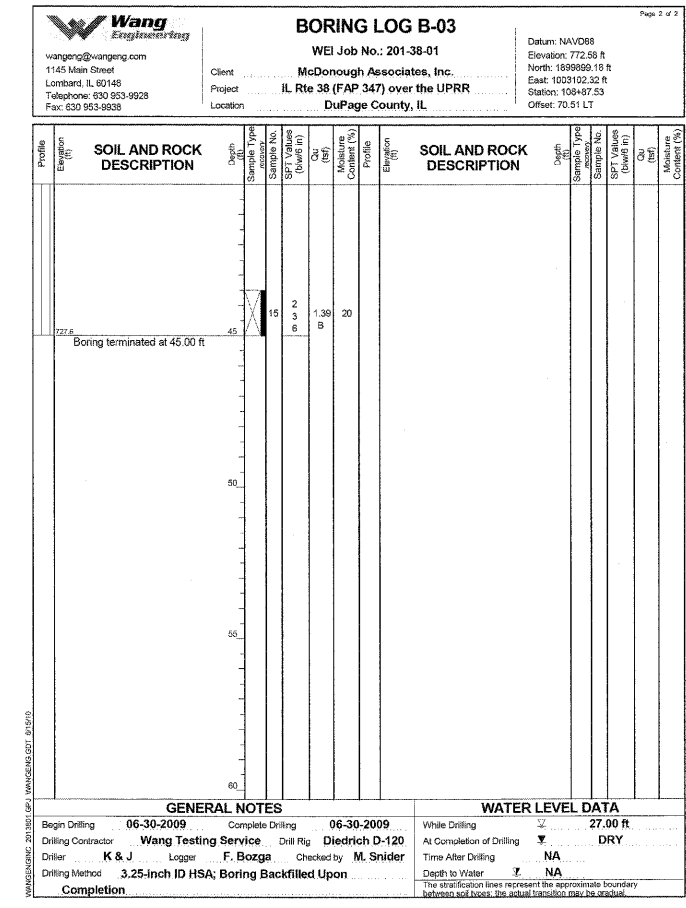
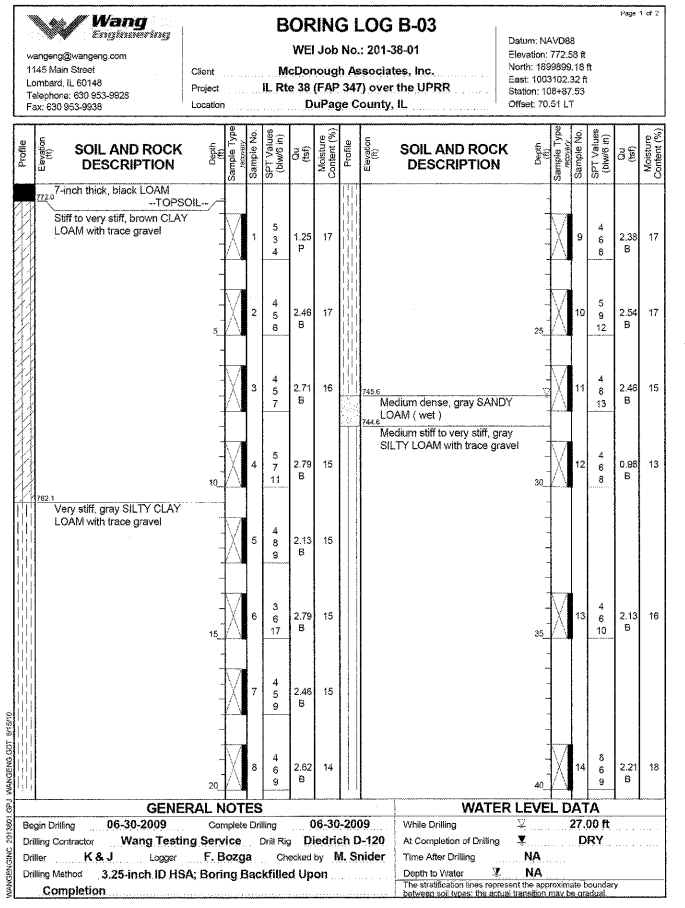
NOTES

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

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		CHECKED - GEK	REVISED -
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	PLOT DATE = 3/28/2012	CHECKED - GEK	REVISED -

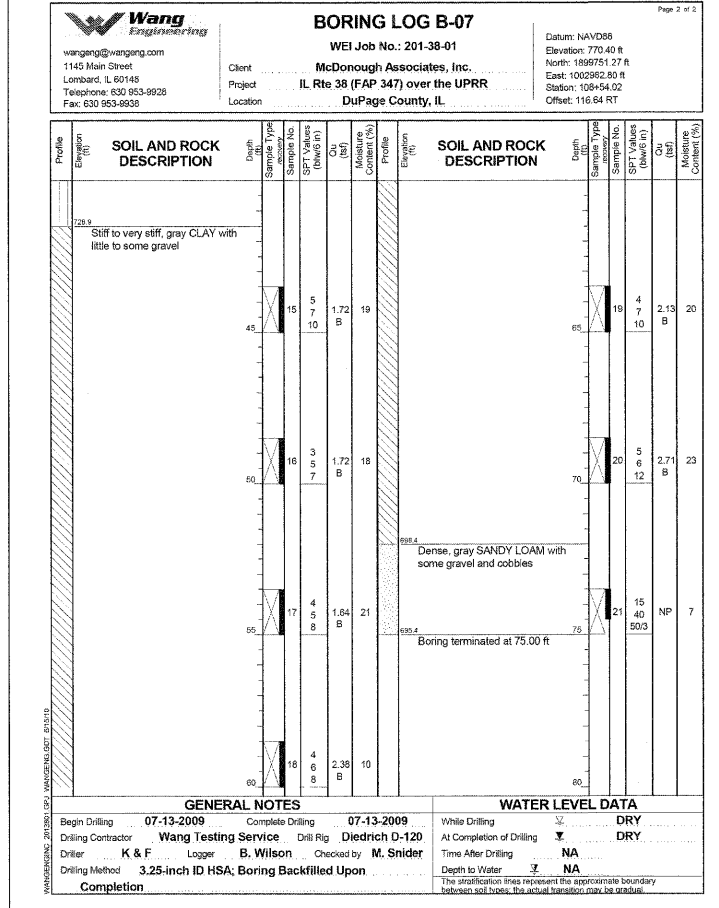
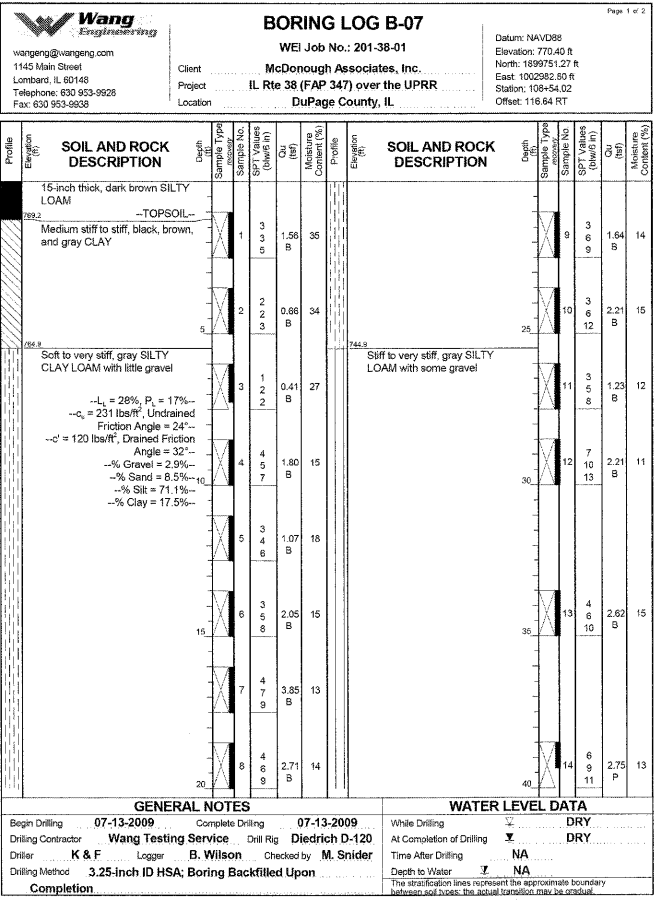
F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 226
				CONTRACT NO. 60122
ILLINOIS FED. AID PROJECT				





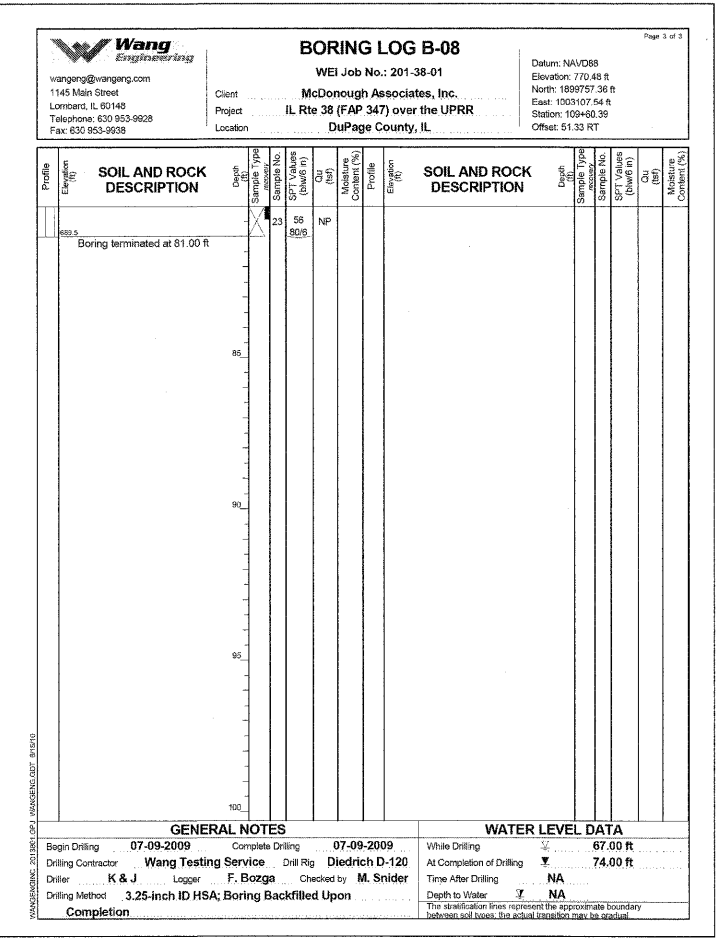
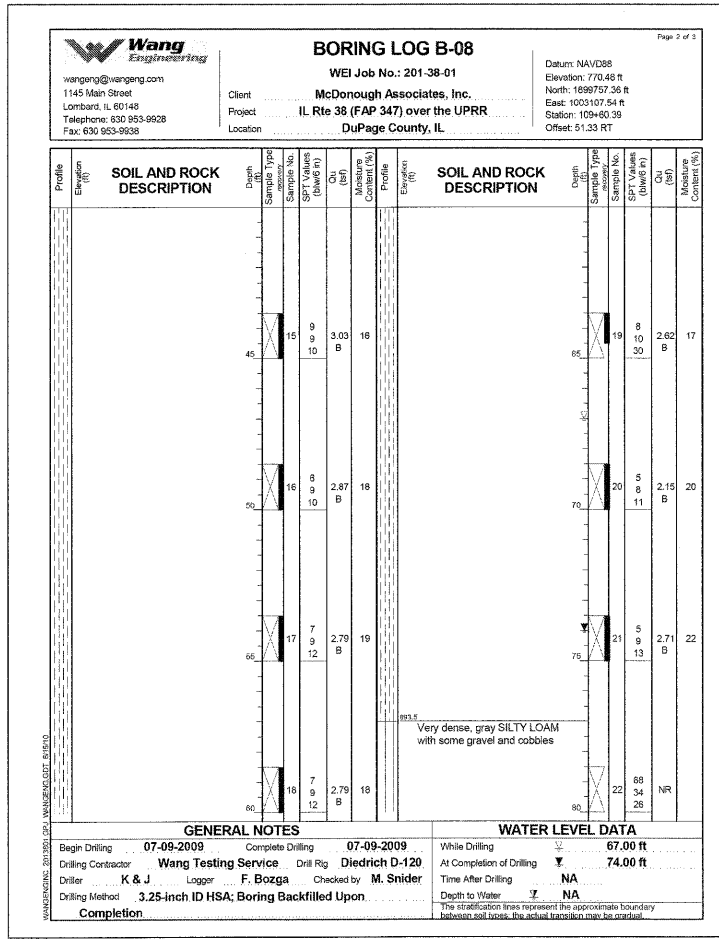
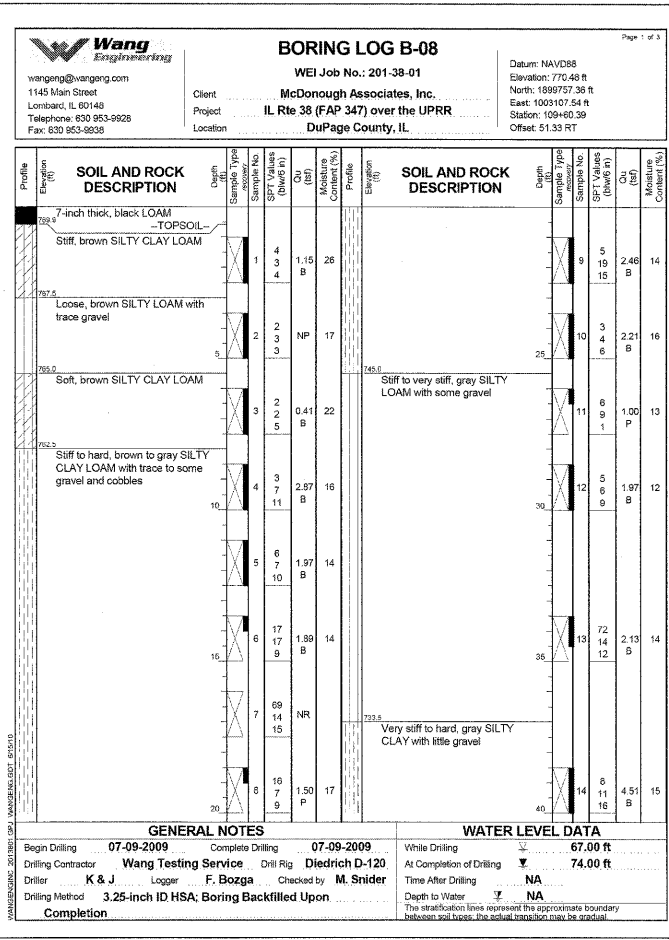
McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = 0450079-60122-862-Soil.Boring.Logs.dgn	USER NAME = jehrbert	DESIGNED - WEI	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 045-0079	F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 228
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PLOT DATE = 3/20/2012	DRAWN - AMV	REVISOR -				ILLINOIS FED. AID PROJECT				
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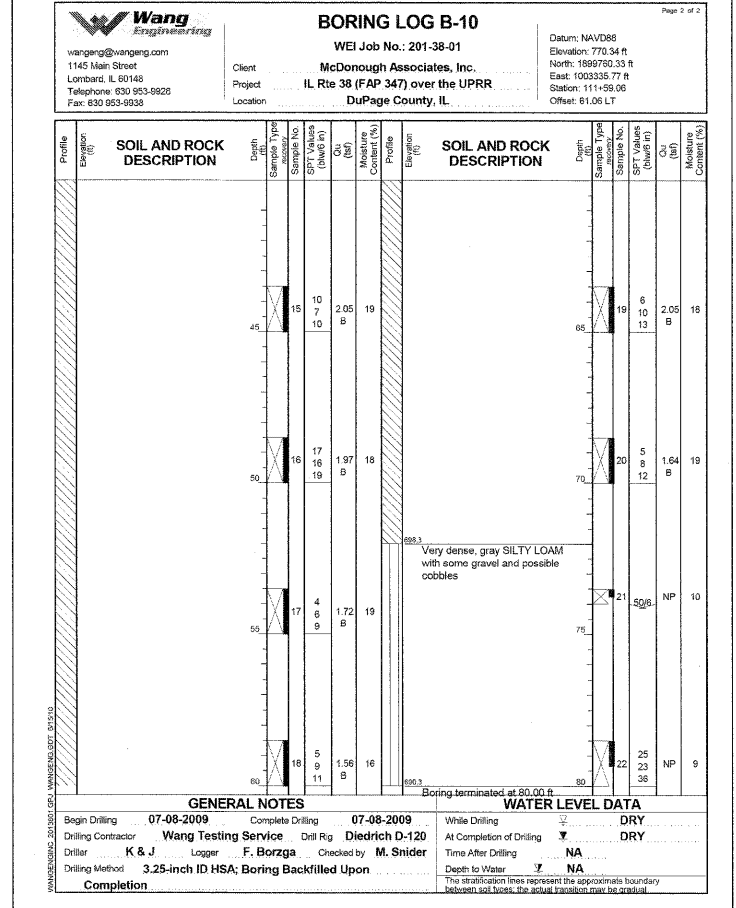
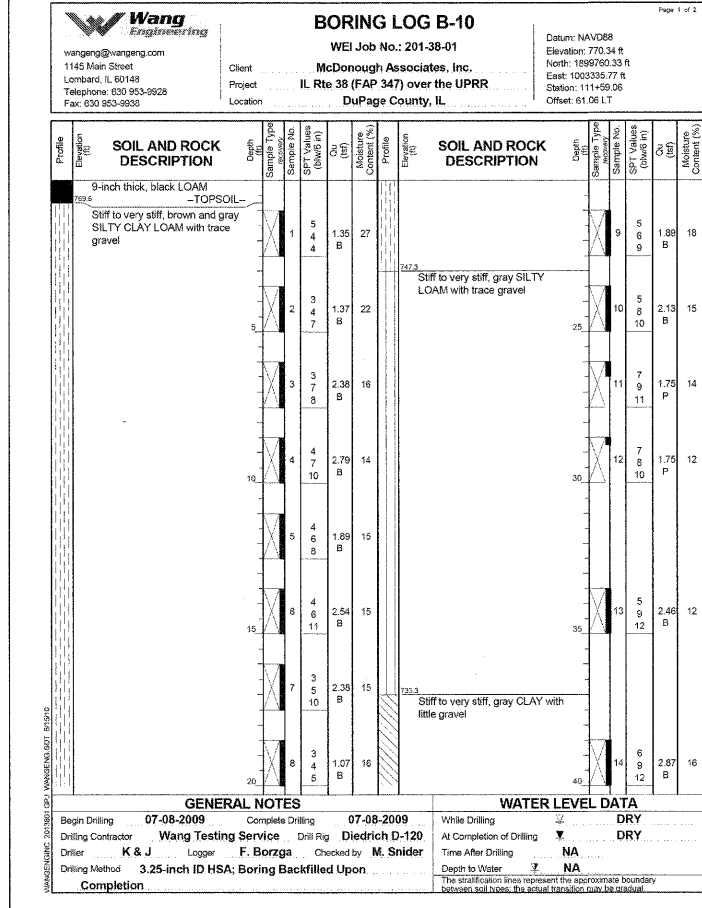
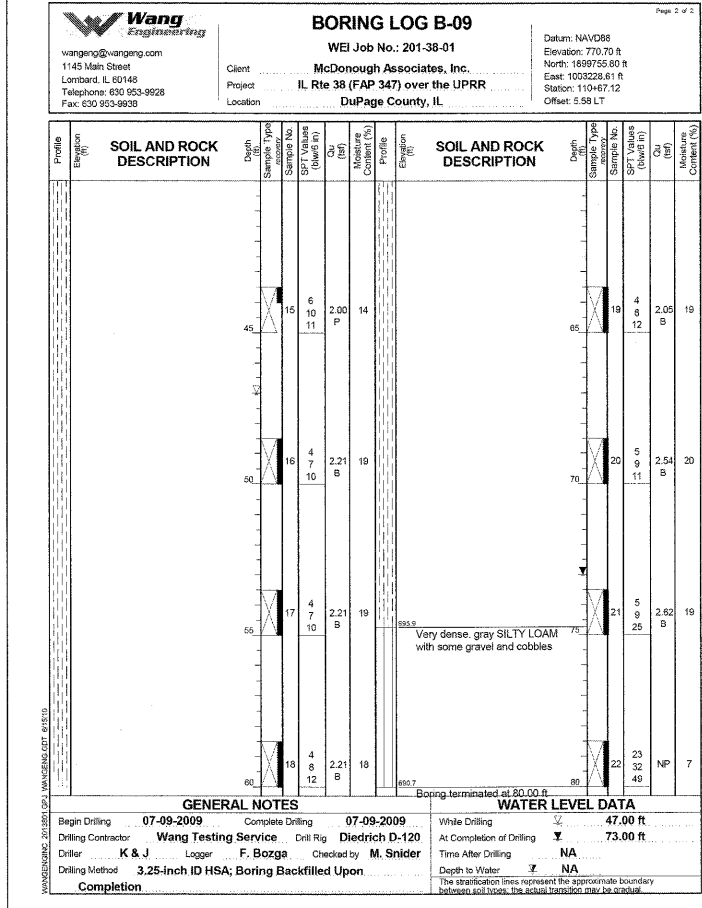
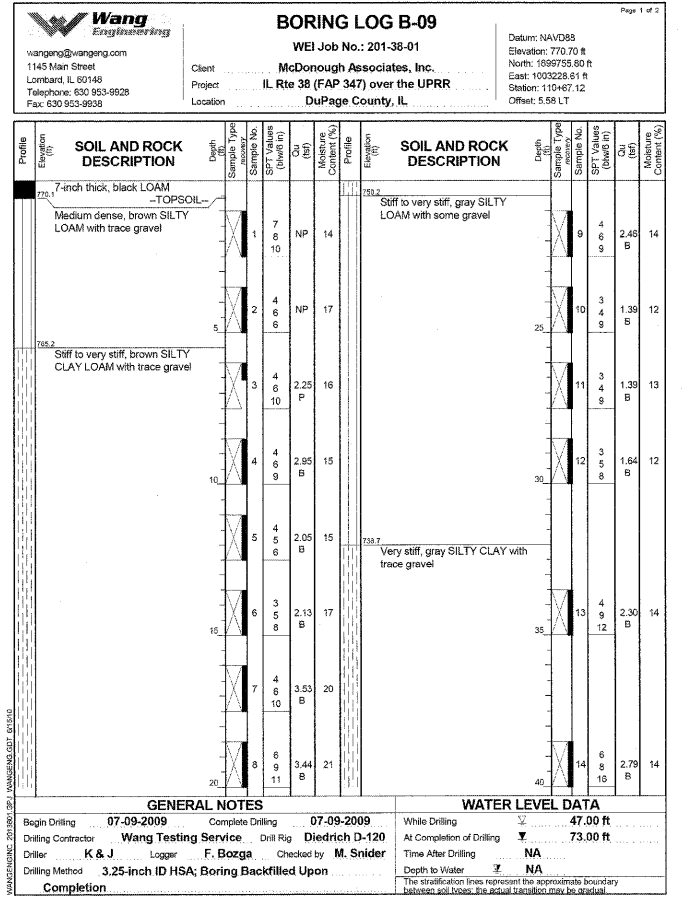
McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

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PLOT SCALE = 1:8,083,333	DRAWN - AMV	REVISED -	CONTRACT NO. 60122							
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ILLINOIS FED. AID PROJECT										



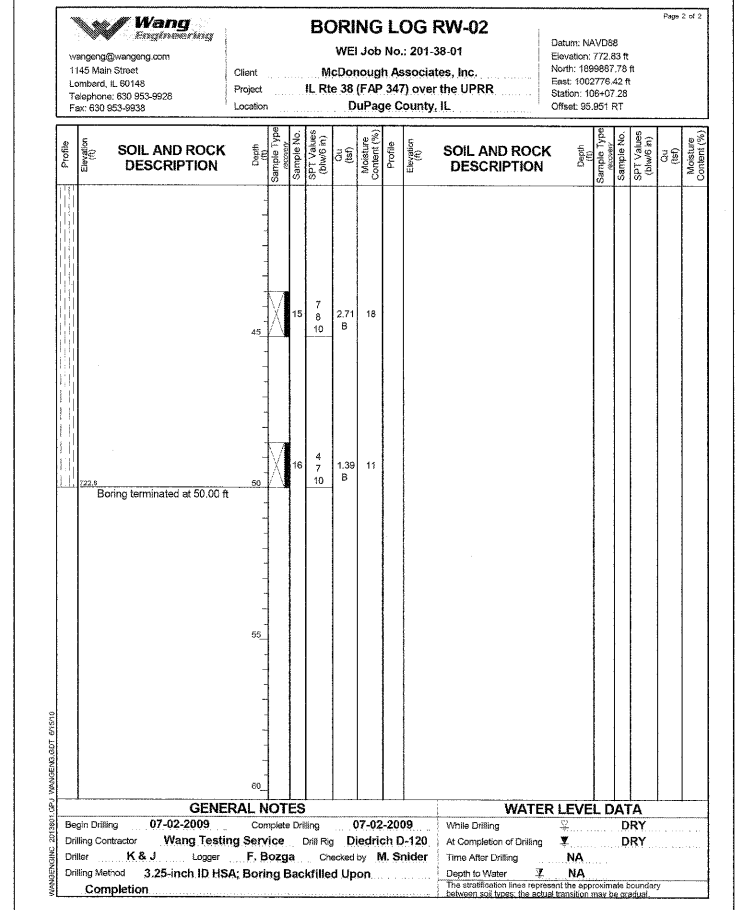
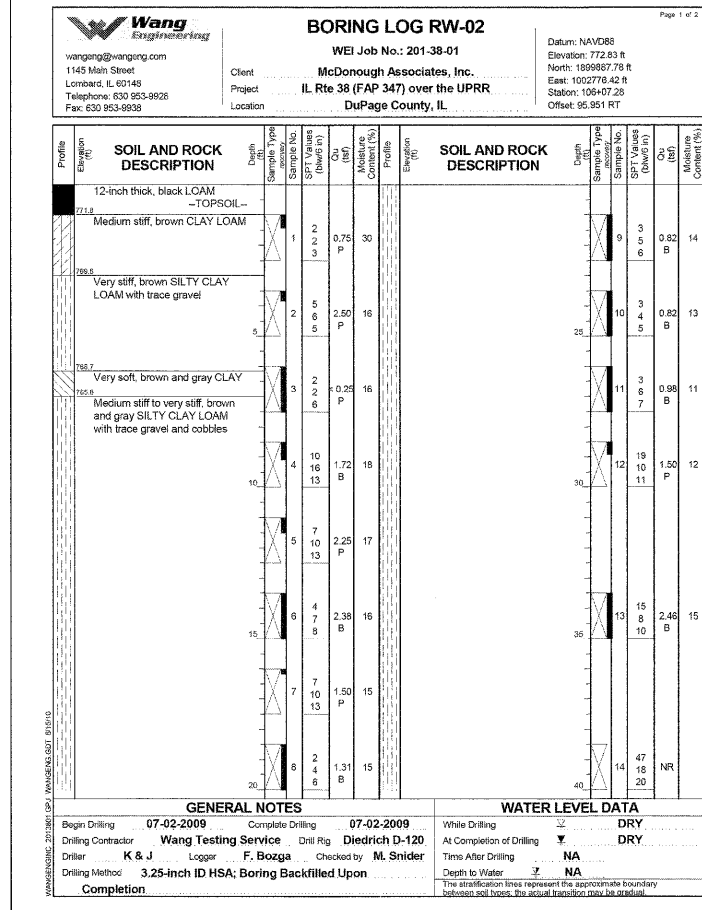
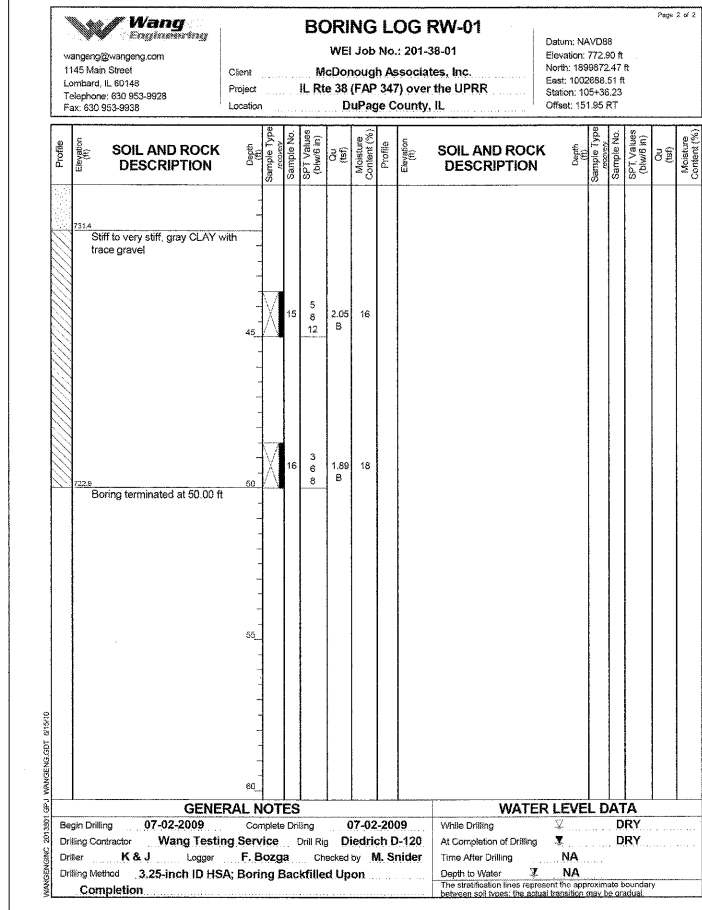
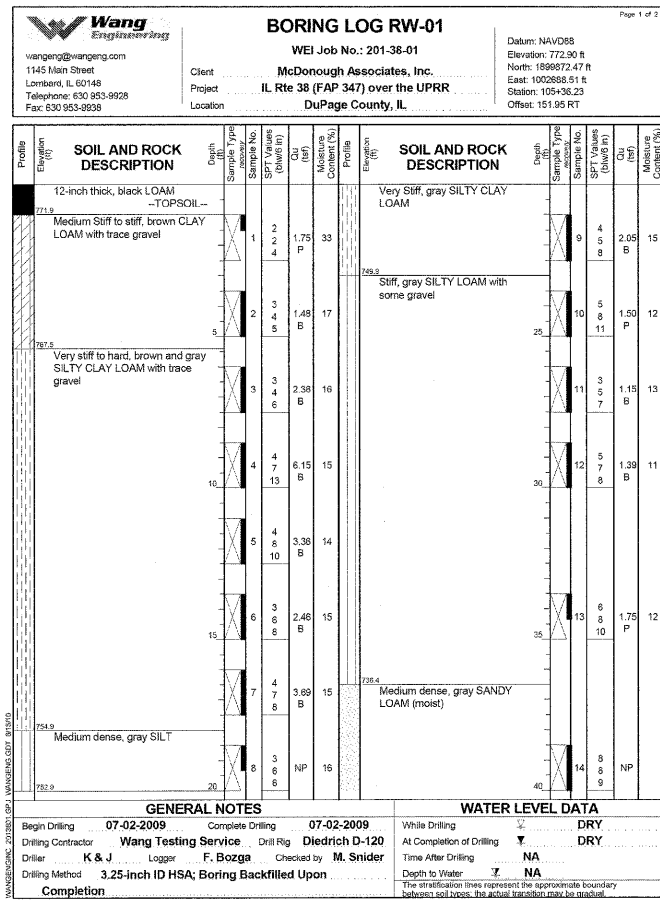
McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street Chicago, Illinois 60601

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PLOT SCALE = 1:8,000	DRAWN - AMV	REVISIONS -	SHEET NO. 64 OF 67 SHEETS			CONTRACT NO. 60122				
PLOT DATE = 3/28/2012	CHECKED - MAI	REVISIONS -	ILLINOIS FED. AID PROJECT							



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Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

FILE NAME = 0450279-60122-865-Soil.Boring.Logs.dgn	USER NAME = Jehrhart	DESIGNED - WEI	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 045-0079	F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 231
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PLOT DATE = 3/28/2012	CHECKED - MAI	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				
SHEET NO. 65 OF 67 SHEETS										



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DESIGNED - WEI
 CHECKED - MAI
 DRAWN - AMV
 CHECKED - MAI

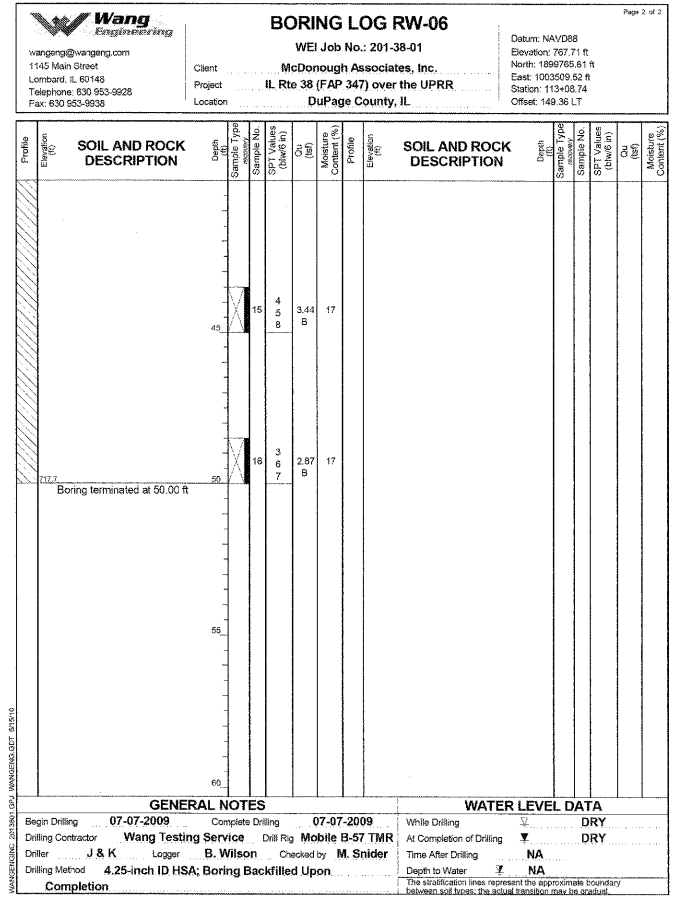
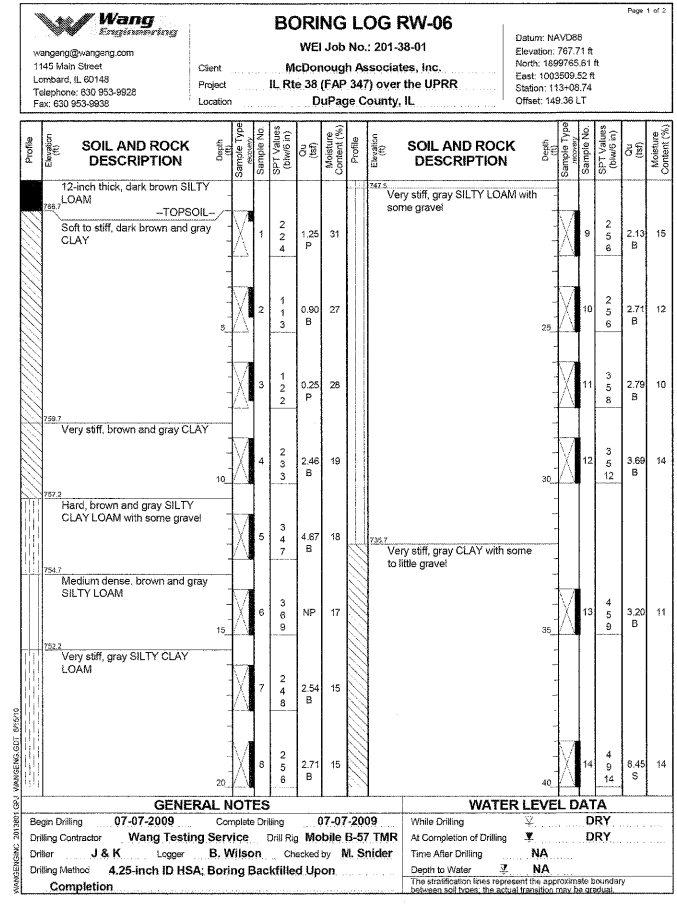
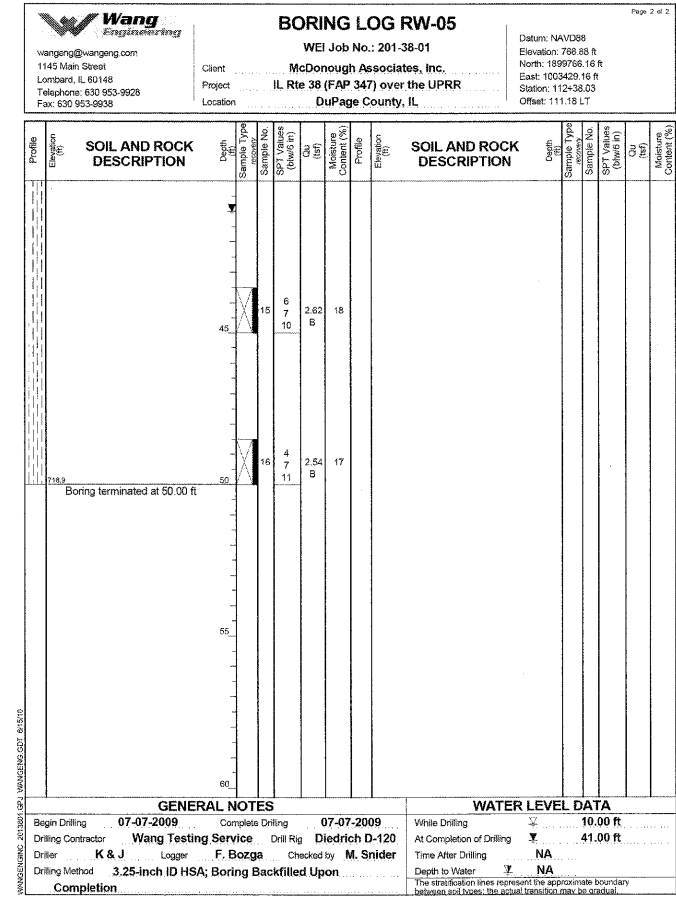
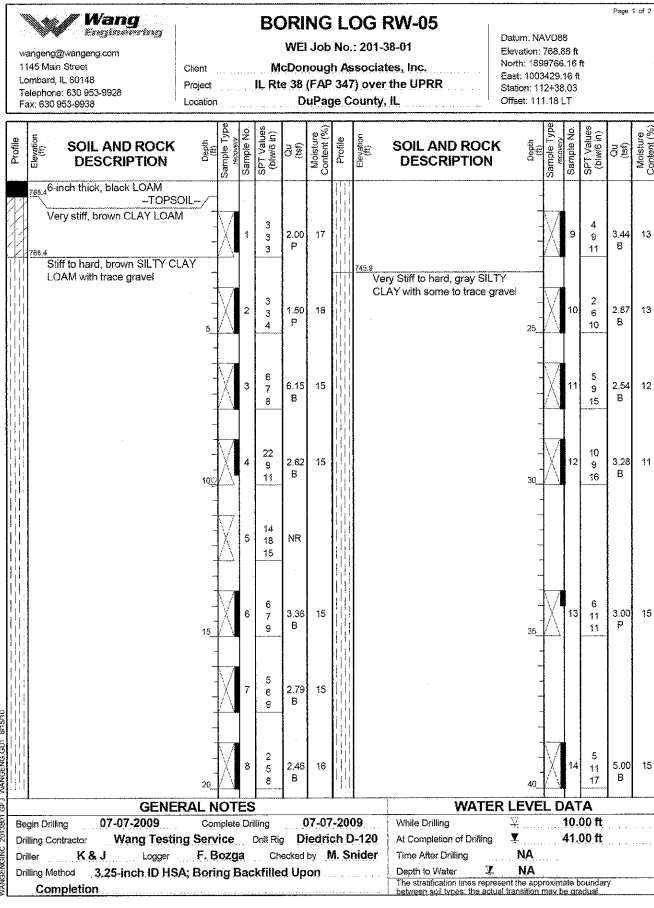
REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
 STRUCTURE NO. 045-0079

SHEET NO. 66 OF 67 SHEETS

F.A.P. RTE. 347 SECTION LY (HB & VB) COUNTY DUPAGE/KANE TOTAL SHEETS 421 SHEET NO. 232
 CONTRACT NO. 60122
 ILLINOIS FED. AID PROJECT



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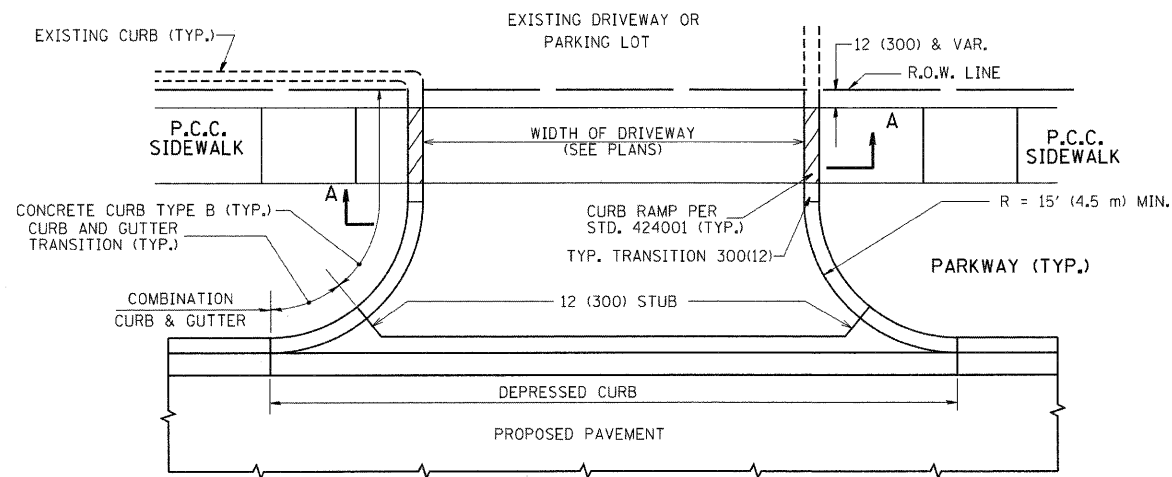
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REVISOR - AMV
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

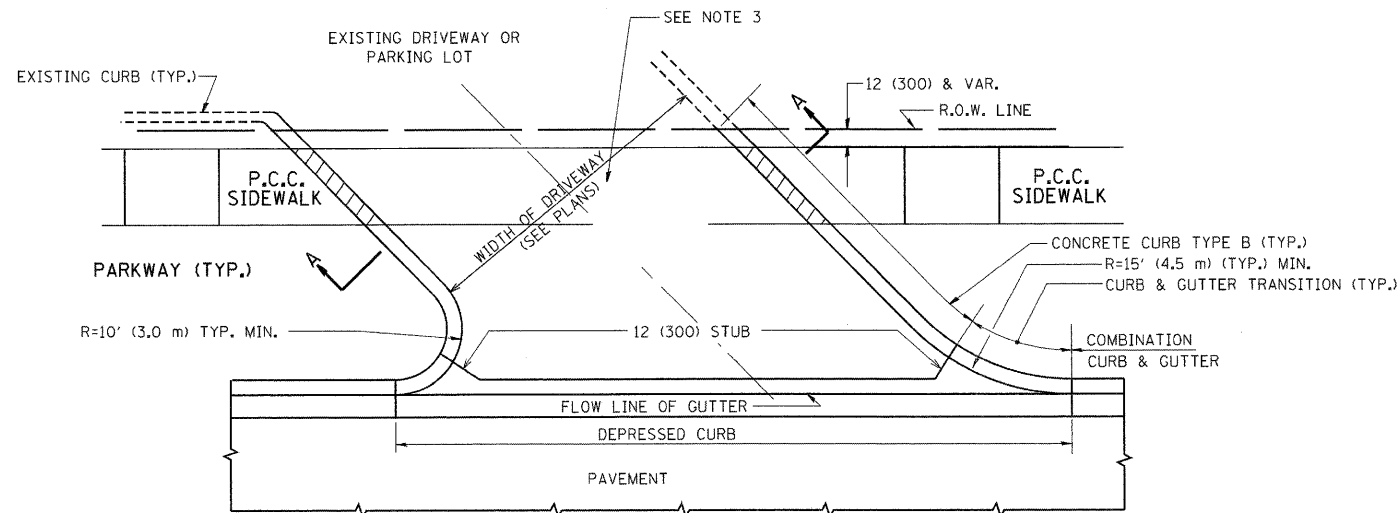
SOIL BORING LOGS
STRUCTURE NO. 045-0079
SHEET NO. 67 OF 67 SHEETS

F.A.P. RTE. 347
SECTION LY (HB & VB)
COUNTY DUPAGE/KANE
TOTAL SHEETS 421
SHEET NO. 233
CONTRACT NO. 60122

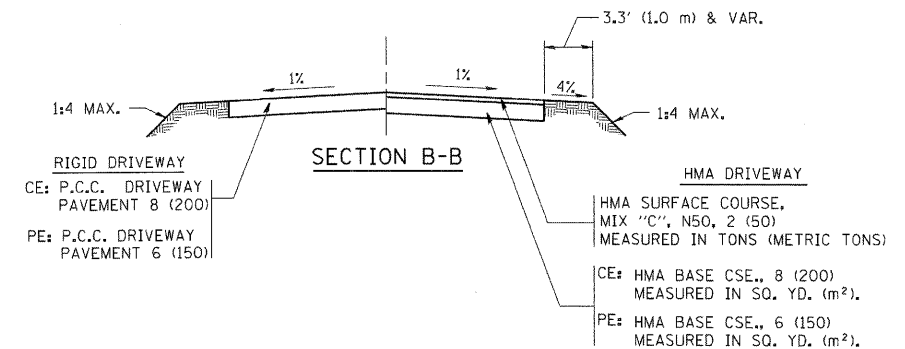
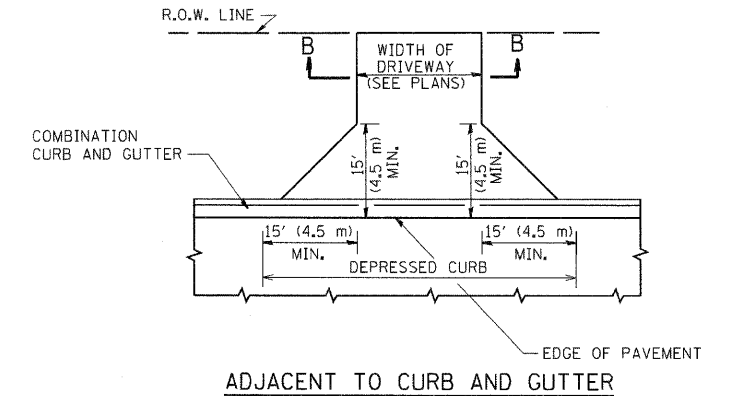
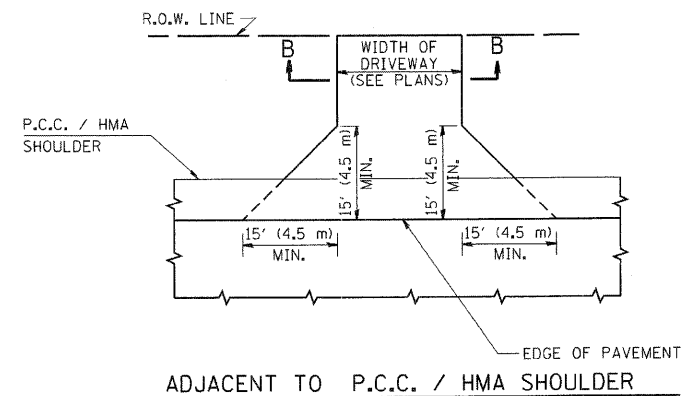
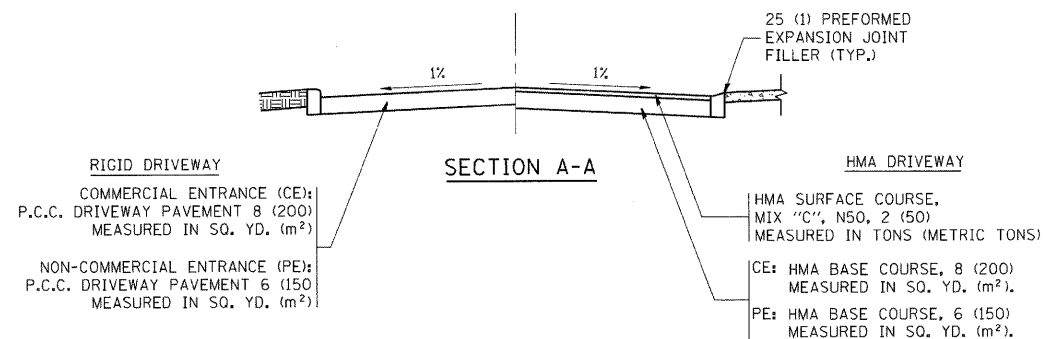
ILLINOIS FED. AID PROJECT



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



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

GENERAL NOTES:

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

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

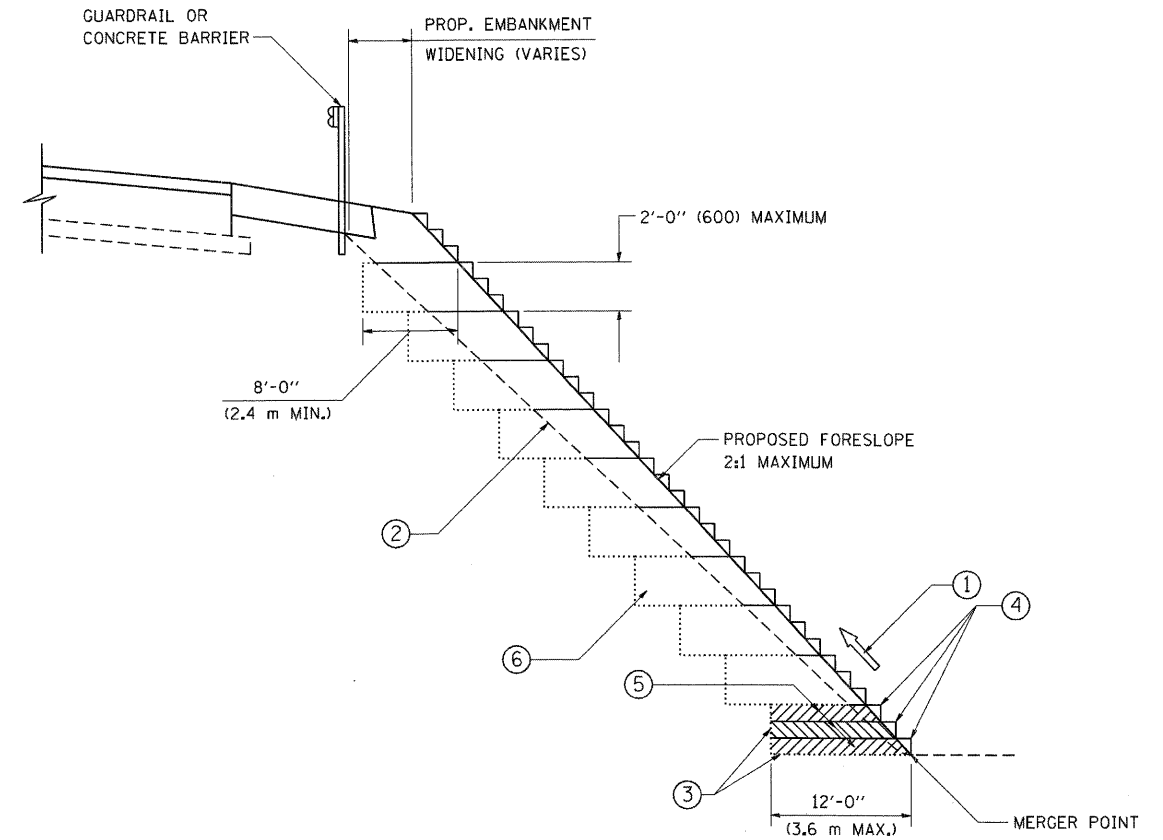
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

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

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

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

FILE NAME = c:\projects\dstsd22\34\bd01.dgn	USER NAME = bevardl	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 49.9999' / IN.	DRAWN -	REVISED - P. LofLUER 04-15-03		347	LY (HB & VB)	DUPAGE/KANE	421	234		
	PLOT DATE = 6/12/2008	CHECKED -	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		BDD0156-07 (BD-01)		CONTRACT NO. 60122		
		DATE - 11-04-95	REVISED - R. BORO 06-11-08		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT						



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

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

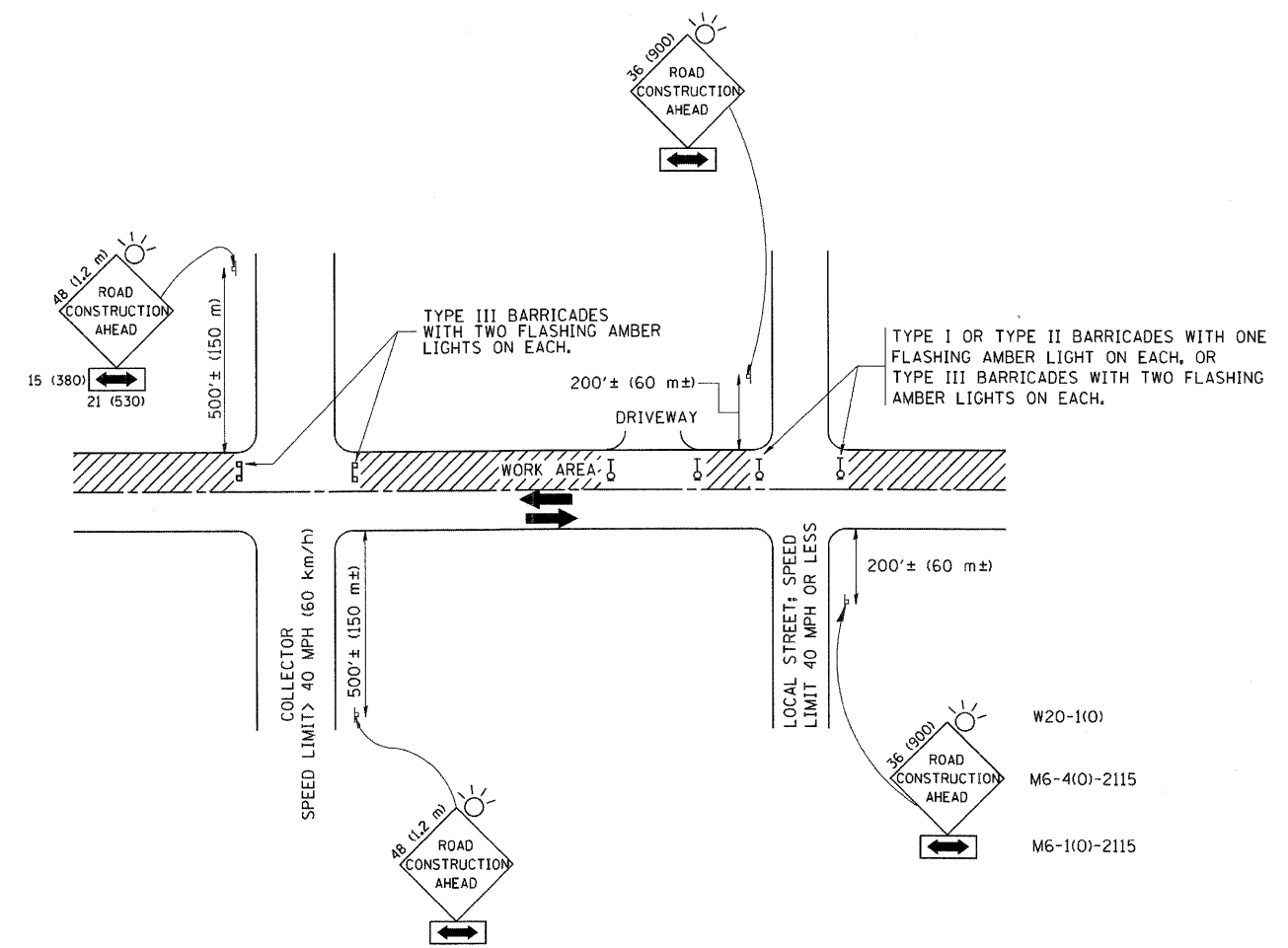
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	LY (HB & VB)	DUPAGE/KANE	421	235
BD-51		CONTRACT NO. 60122		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

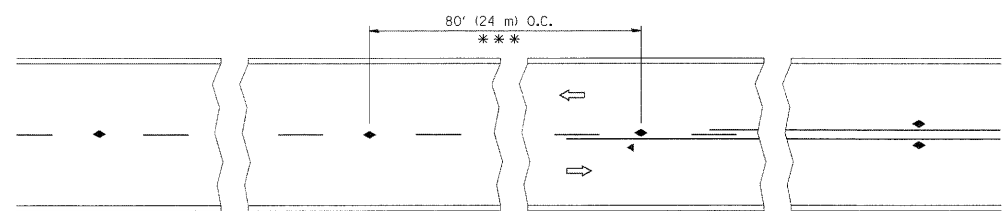
NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 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.

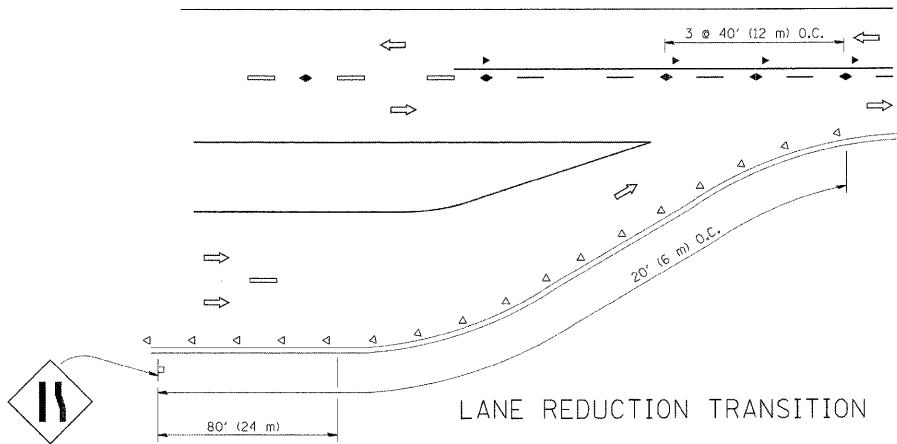
All dimensions are in millimeters (inches) unless otherwise shown.

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	PLOT SCALE = 50,000 / IN.	DRAWN -	REVISED - A. HOUSEH 03-06-96		347	LY (HB & VB)	DUPAGE/KANE	421	236		
	PLOT DATE = 1/4/2000	CHECKED -	REVISED - A. HOUSEH 10-15-96		SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	TC-10		CONTRACT NO. 60122
	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

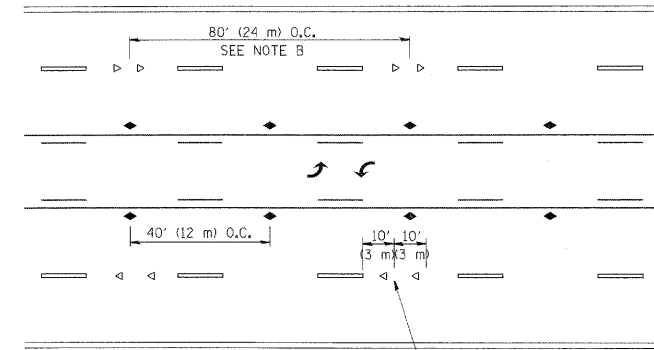


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

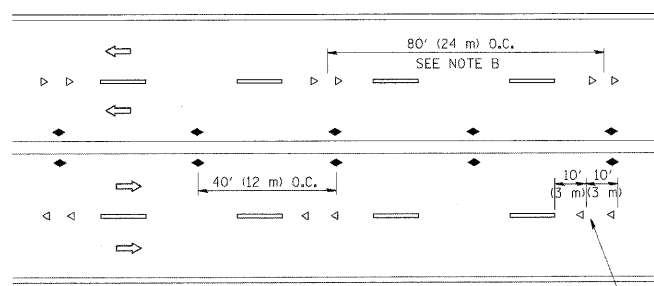
TWO-LANE/TWO-WAY



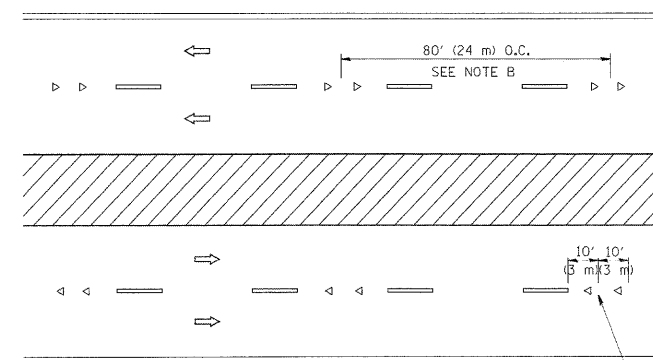
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

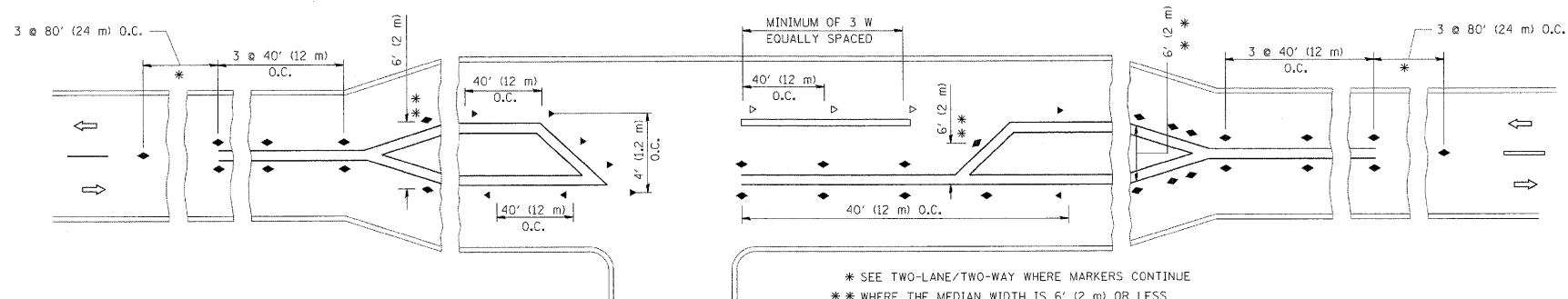
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

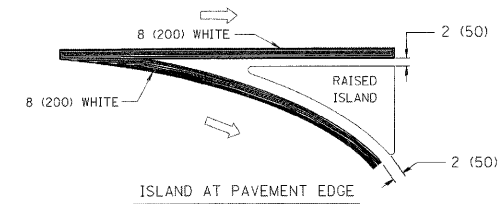
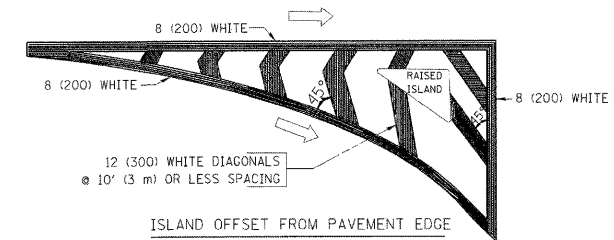
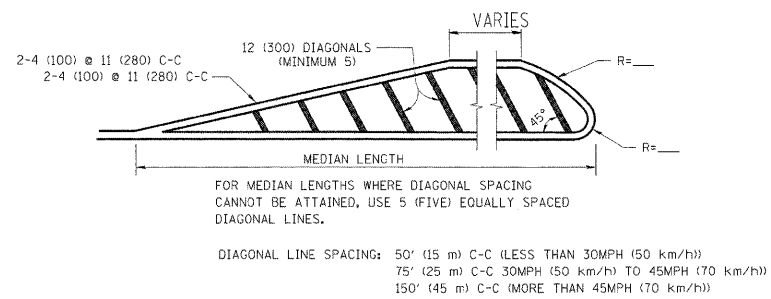
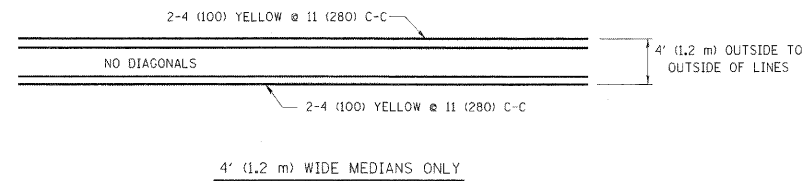
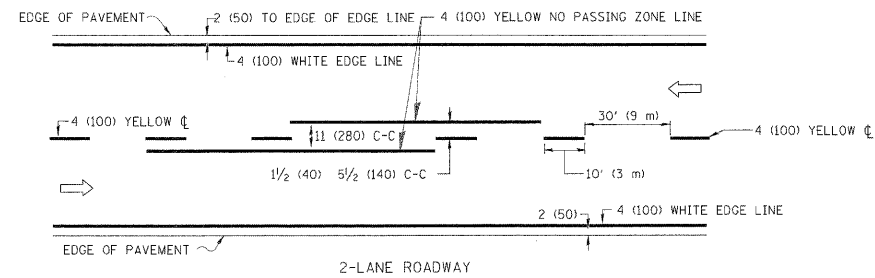
1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD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



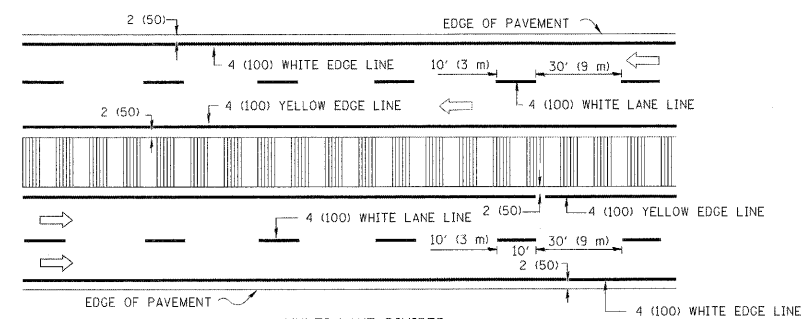
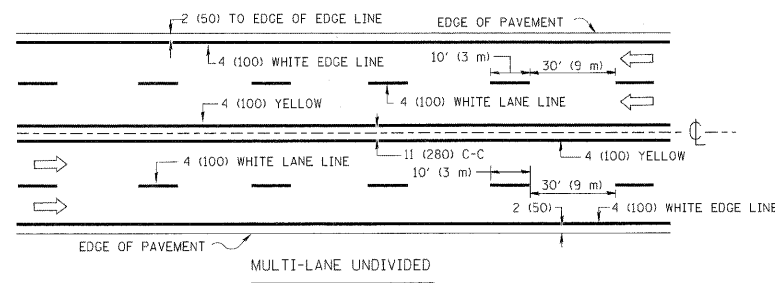
LEFT TURN

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

FILE NAME = c:\pwork\pwork\drivakosgn\0108315\tdgn	USER NAME = drivakosgn	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50:000 1" = 50'	DRAWN -	REVISED - T. RAMMACHER 03-12-99		RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			347	LY (HB & VB)	DUPAGE/KANE	421	237
PLOT DATE = 9/9/2009	CHECKED -	DATE -	REVISED - T. RAMMACHER 01-06-00	SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.	TC-11		CONTRACT NO. 60122	
			REVISED - C. JUCIUS 09-09-09	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

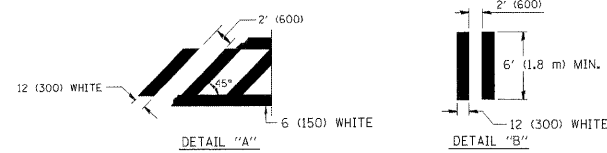
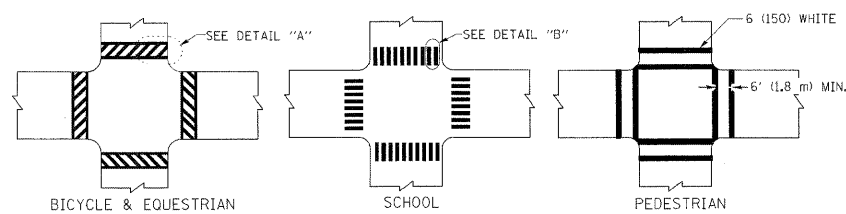


TYPICAL ISLAND MARKING

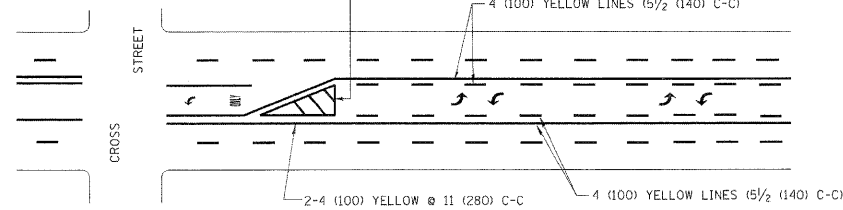


NOTE: MEDIANS WITH BARRIER CURBS DO NOT REQUIRE AN EDGE LINE

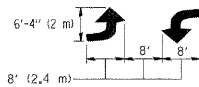
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

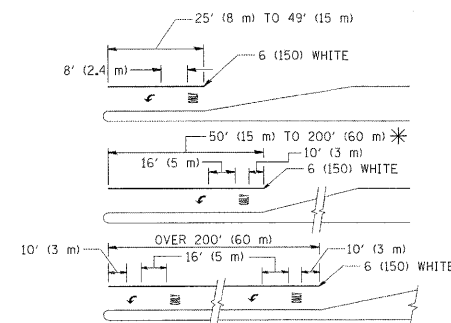


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



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

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE 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	5/2 (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' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (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.
CORE 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" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

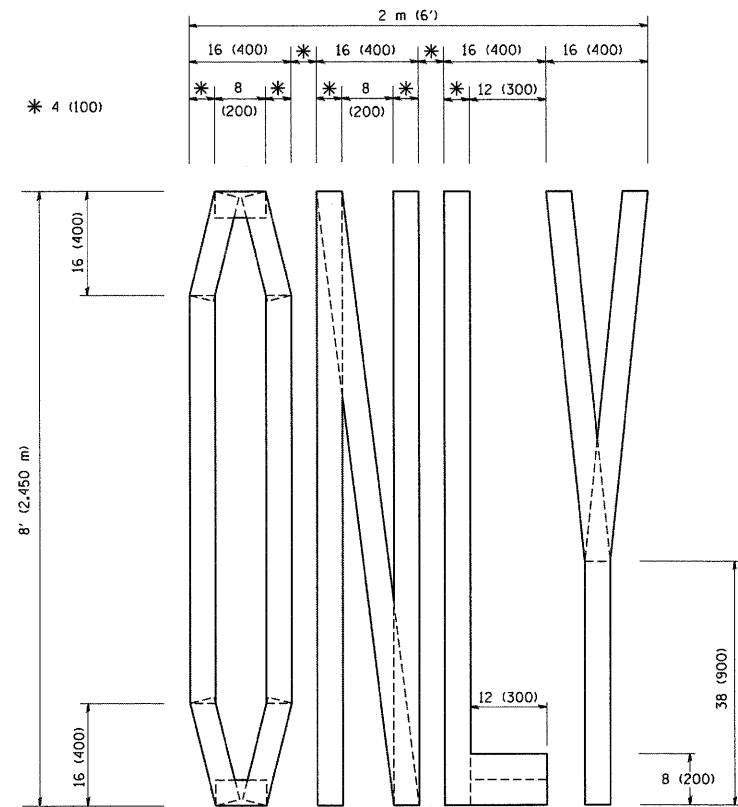
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

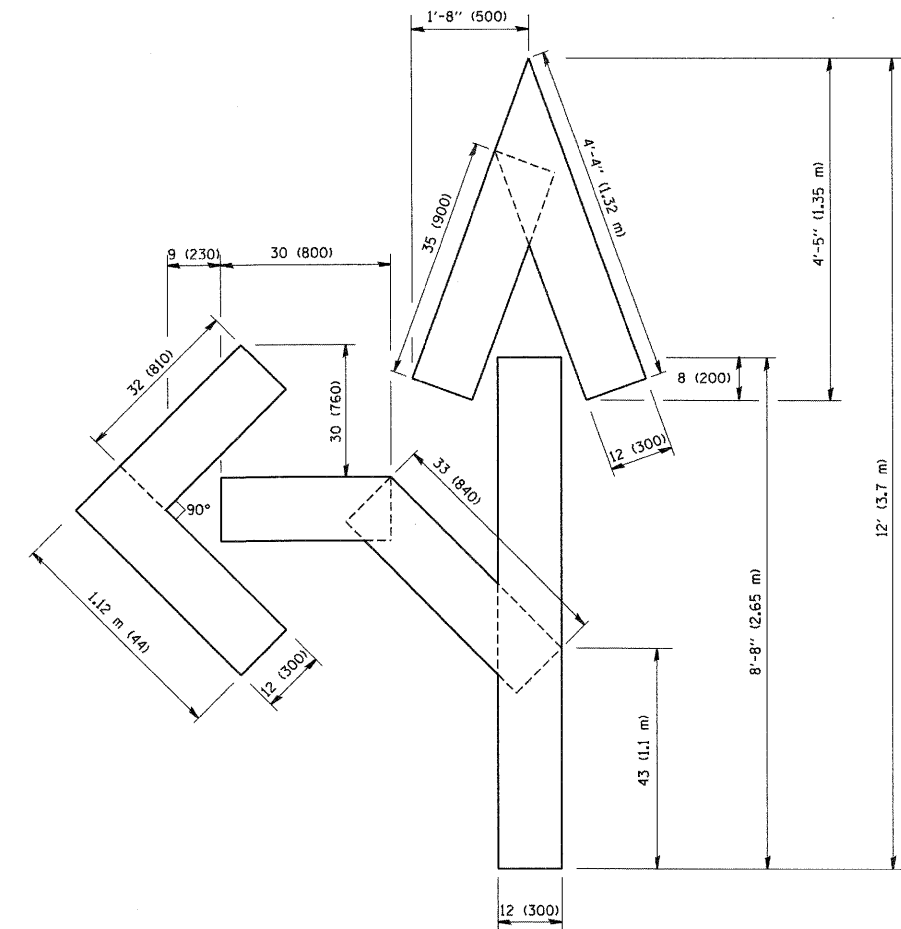
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c:\pwork\pwork\drivakosgn\d0100315\td	3.dgn	DRAWN -	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 50.000 / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

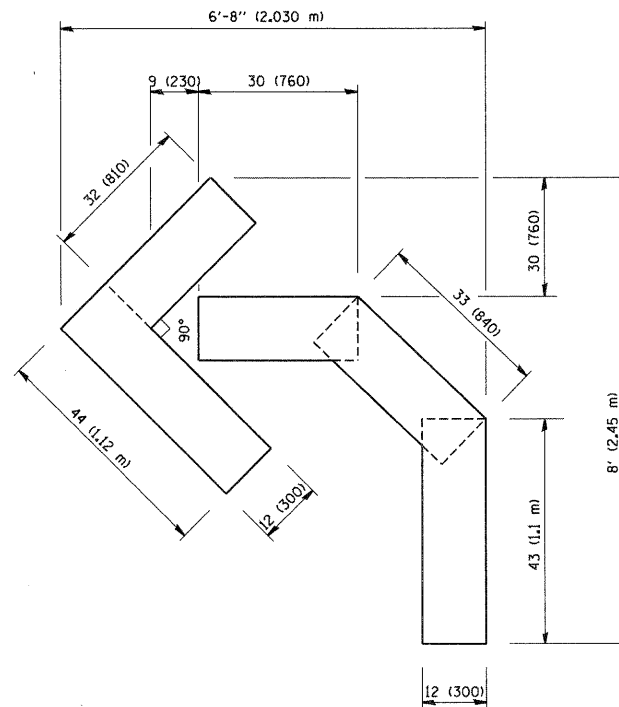
DISTRICT ONE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		347	LY (HB & VB)	DUPAGE/KANE	421	238
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	
		TC-13		CONTRACT NO. 60122		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



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



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



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

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

FILE NAME = W:\diststd\22x34\tcl6.dgn	USER NAME = geglienabt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

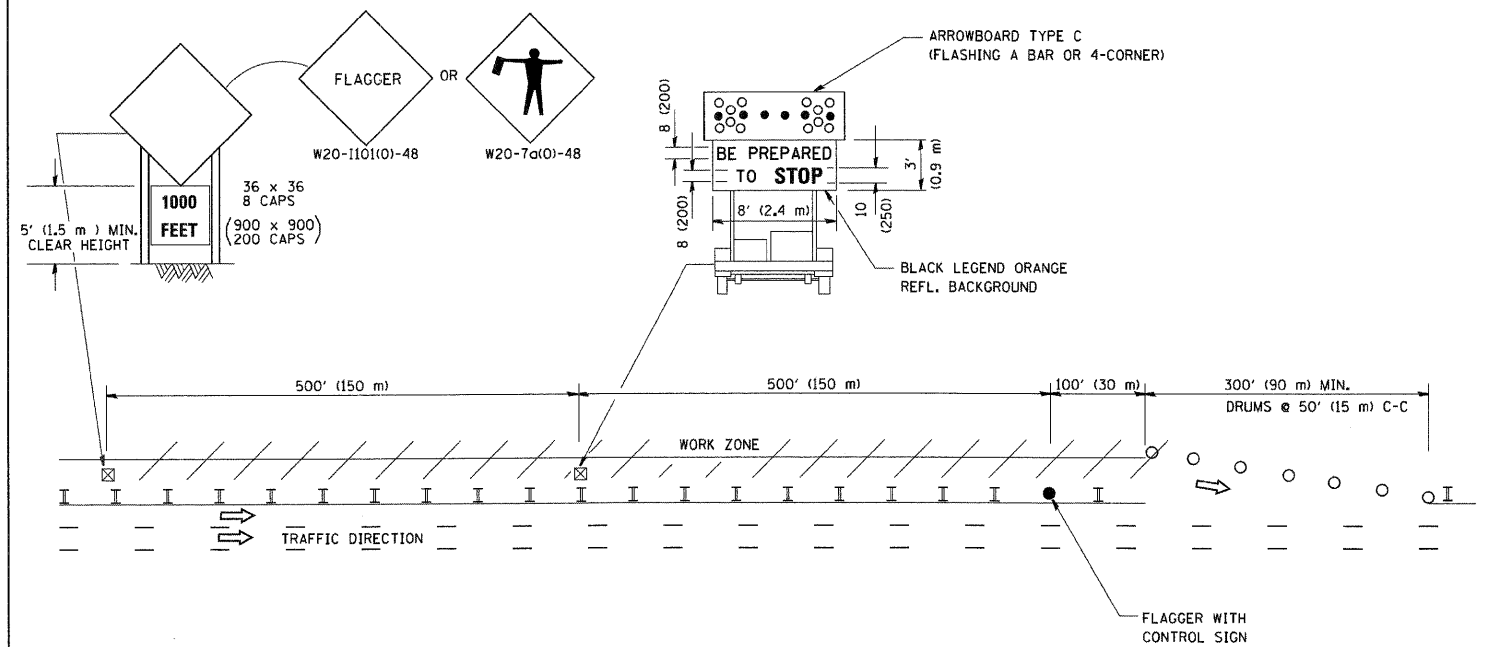
PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

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

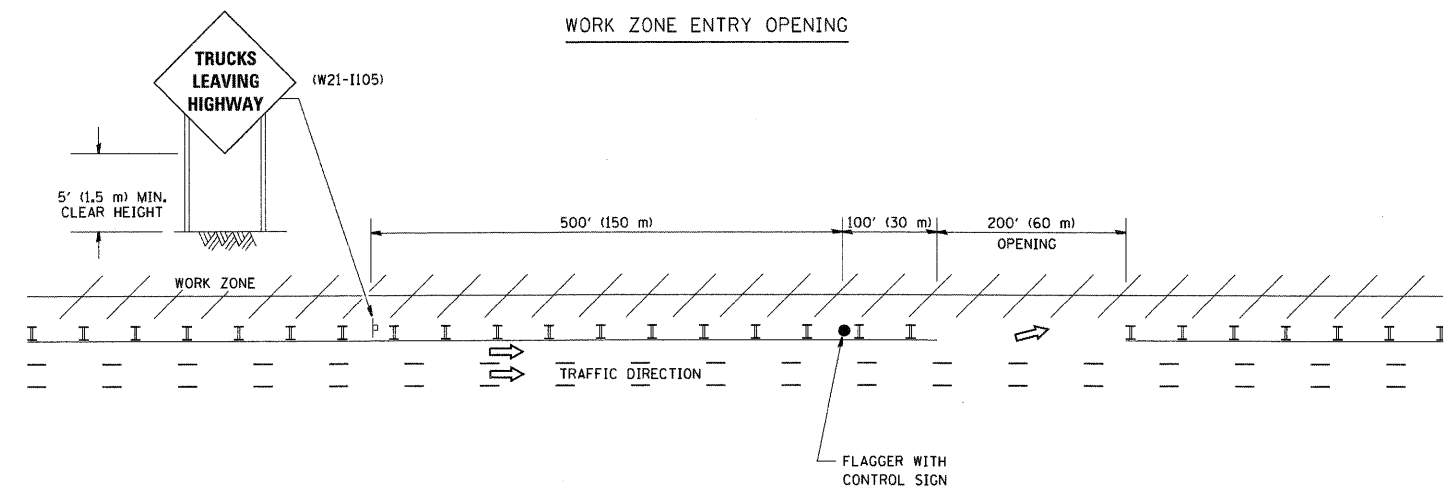
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	LY (HB & VB)	DUPAGE/KANE	421	239
TC-16 CONTRACT NO. 60122				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING

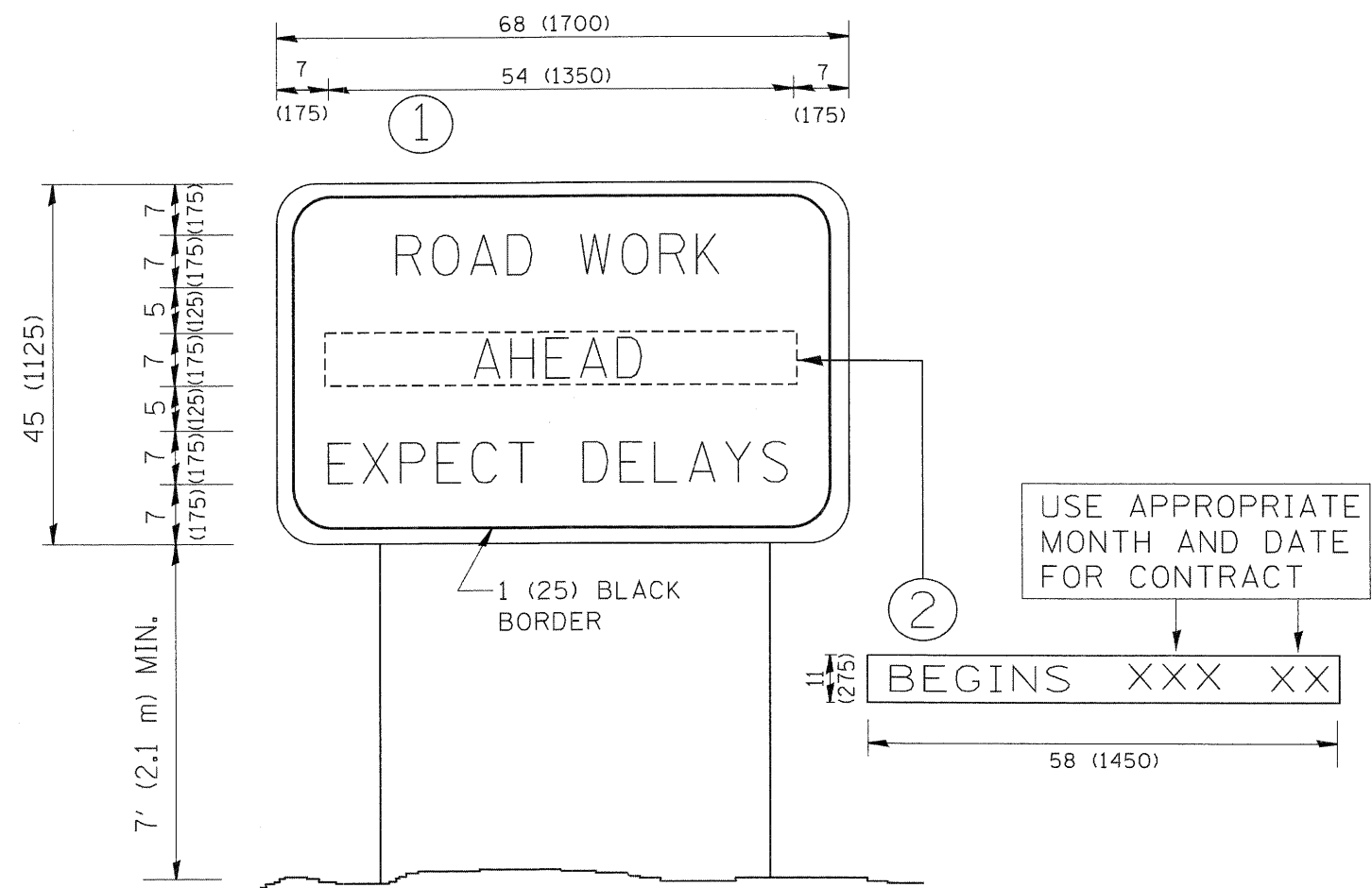


NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\dst\std\22x34\tc18.dgn	USER NAME = geglianobt	DESIGNED -	REVISED - D.W.S. 08-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS		F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 240
	PLOT SCALE = 50,000 / IN.	DRAWN -	REVISED - J.A.F. 04-03		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	TC-18		CONTRACT NO. 60122	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - J.A.F. 02-06		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						
		DATE -	REVISED - S.P.B. 01-07								

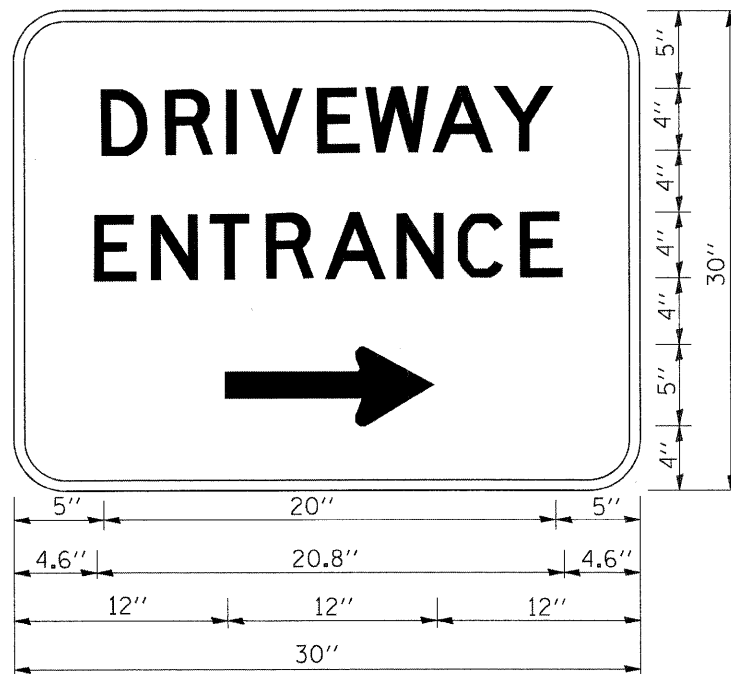


NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = geglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	347	LY (HB & VB)	DUPAGE/KANE	421	241
		PLOT SCALE = 50.000 "/ IN.	CHECKED -		REVISED - T. RAMMACHER 02-02-99				TC-22		CONTRACT NO. 60122		
		PLOT DATE = 1/4/2000	DATE -		REVISED - C. JUCIUS 01-31-07				<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				

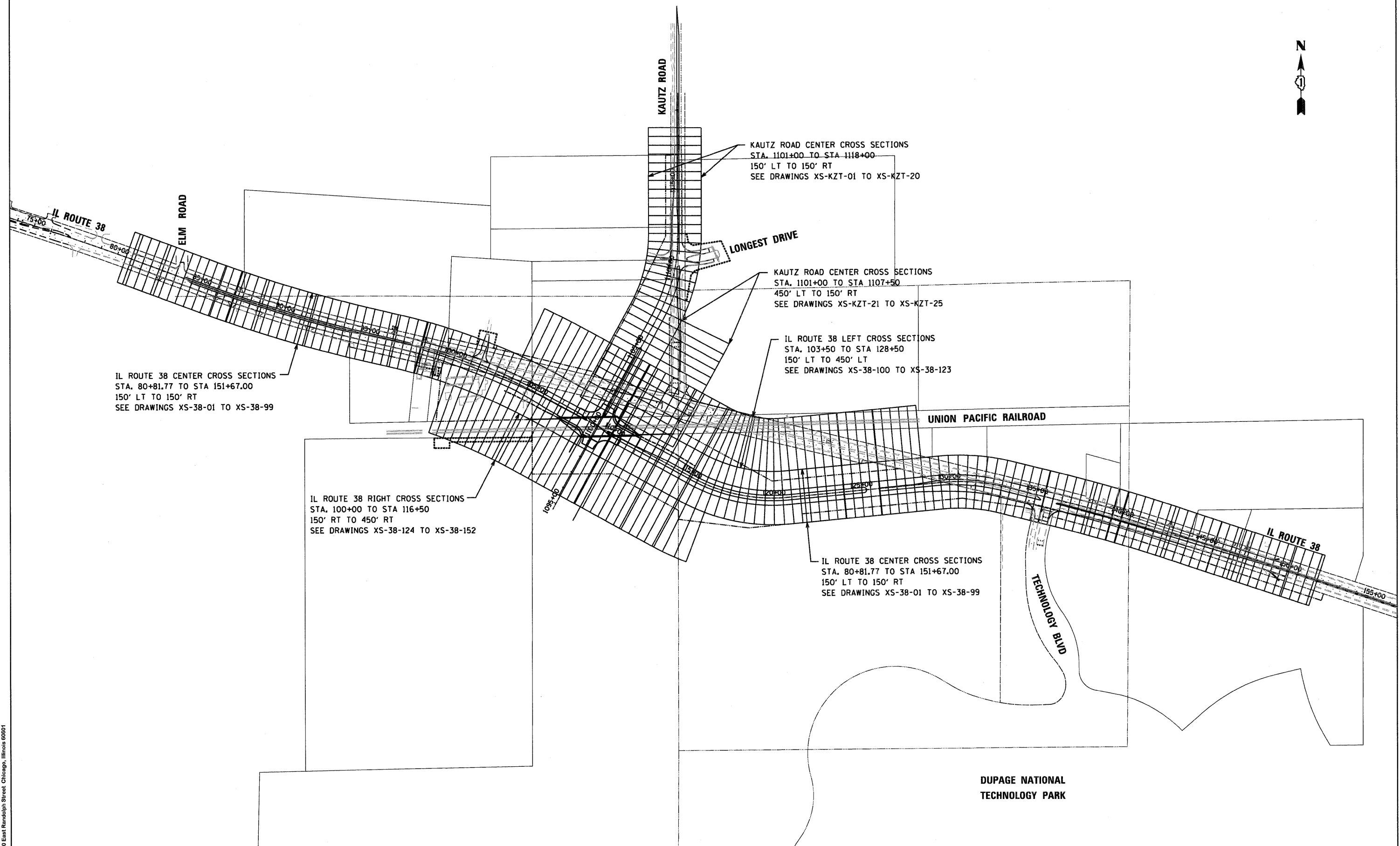


3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

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

FILE NAME = W:\diststd\22x34\to26.dgn	USER NAME = geglennob	DESIGNED -	REVISED - C. JUCIUS 02-15-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY ENTRANCE SIGNING			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 1/4/2008	CHECKED -	REVISED -	REVISED -	SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	TC-26 CONTRACT NO. 60122		
	DATE -	REVISED -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								



McDonough Associates Inc.
 Engineers / Architects
 750 East Randolph Street Chicago, Illinois 60601

FILE NAME = D:\68122-SHT-XSEC-KEY-PLAN.dgn	USER NAME = YKim	DESIGNED - MJT	REVISED -
		DRAWN - MJT	REVISED -
		CHECKED - EJC	REVISED -
		DATE - 10/14/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

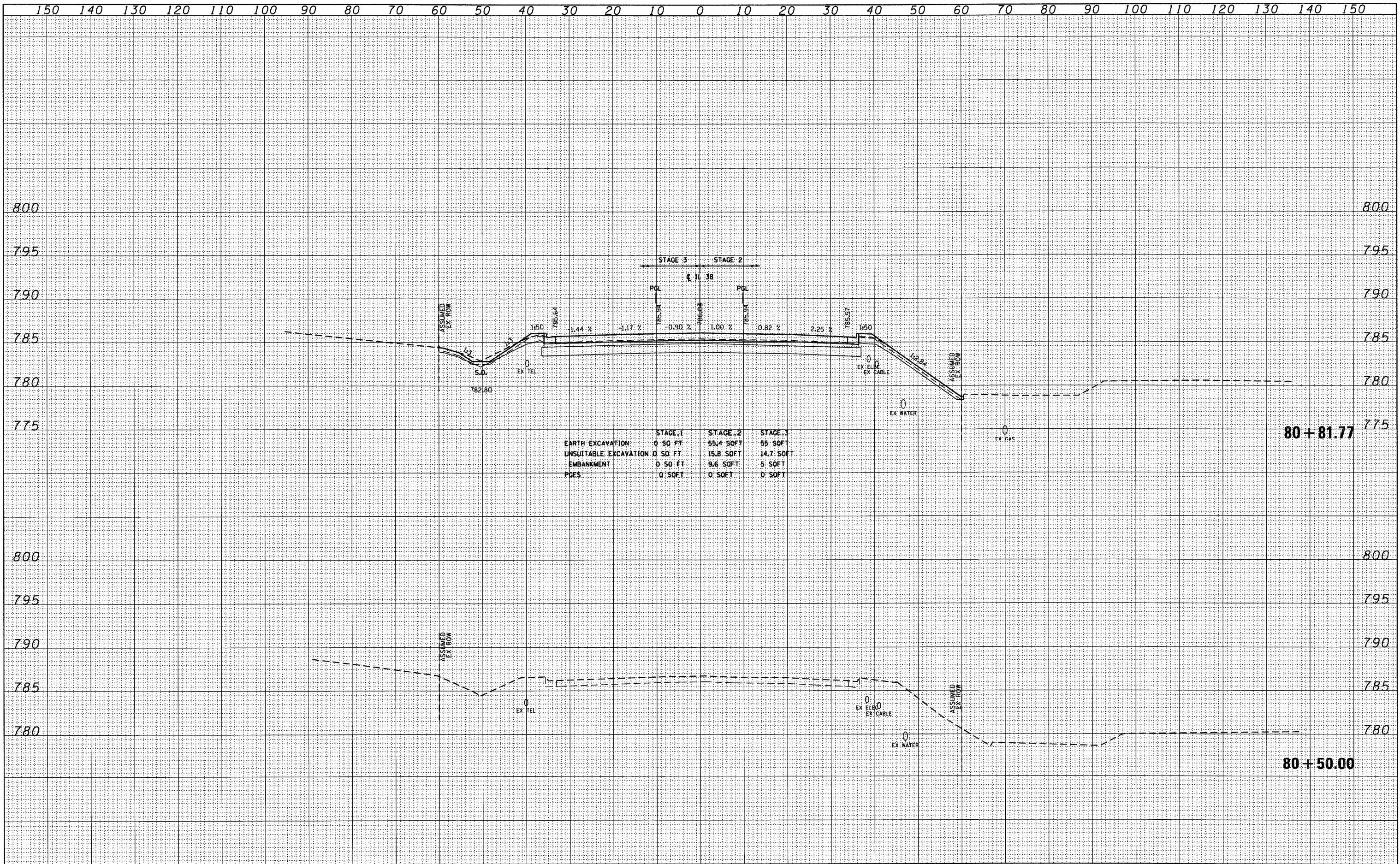
CROSS SECTION KEY PLAN

SCALE: 1"=250' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 243
CONTRACT NO. 60122				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

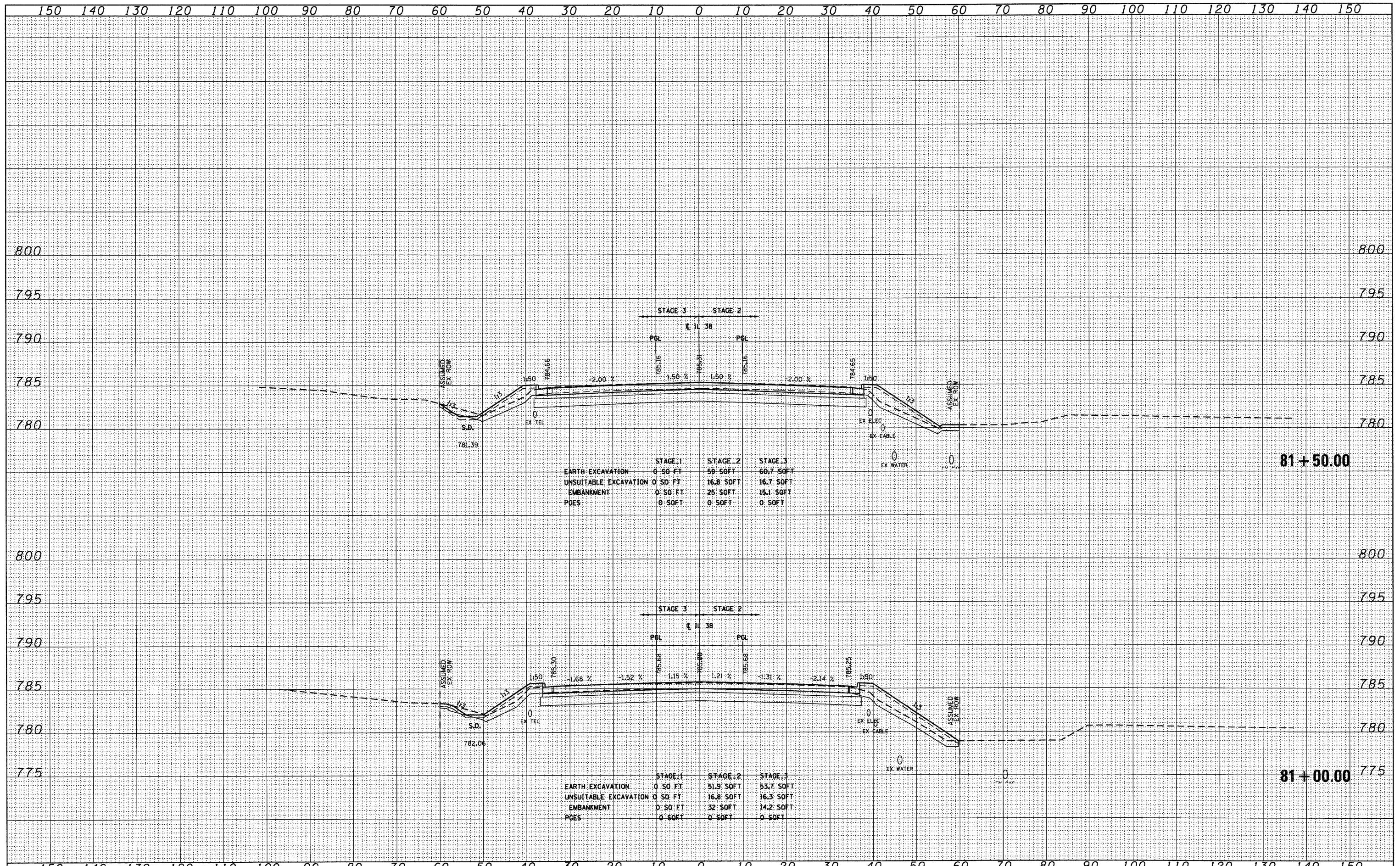
DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
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DATE _____
 BY _____
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 PLOTTED _____
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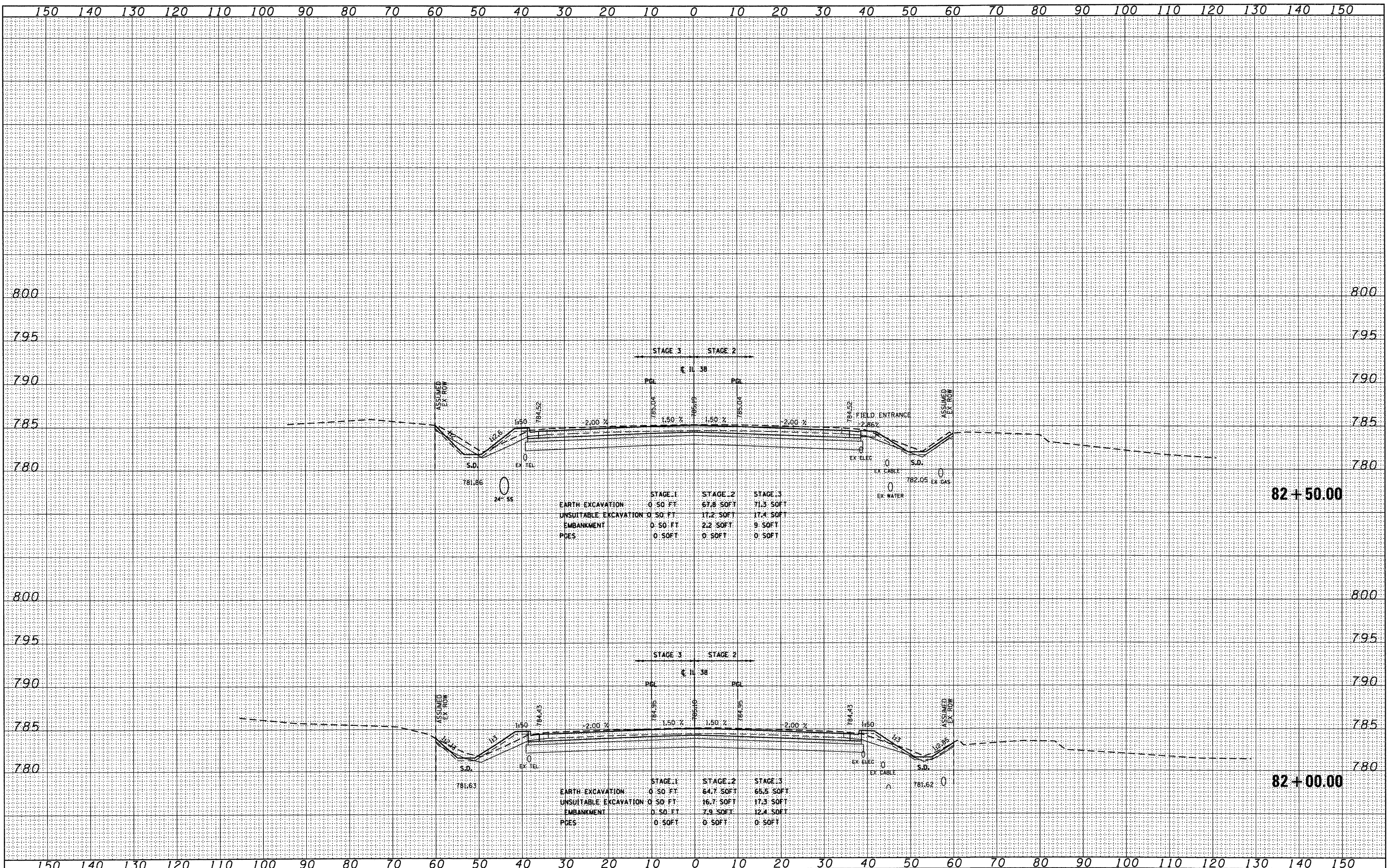
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BY	
SURVEYED	
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DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
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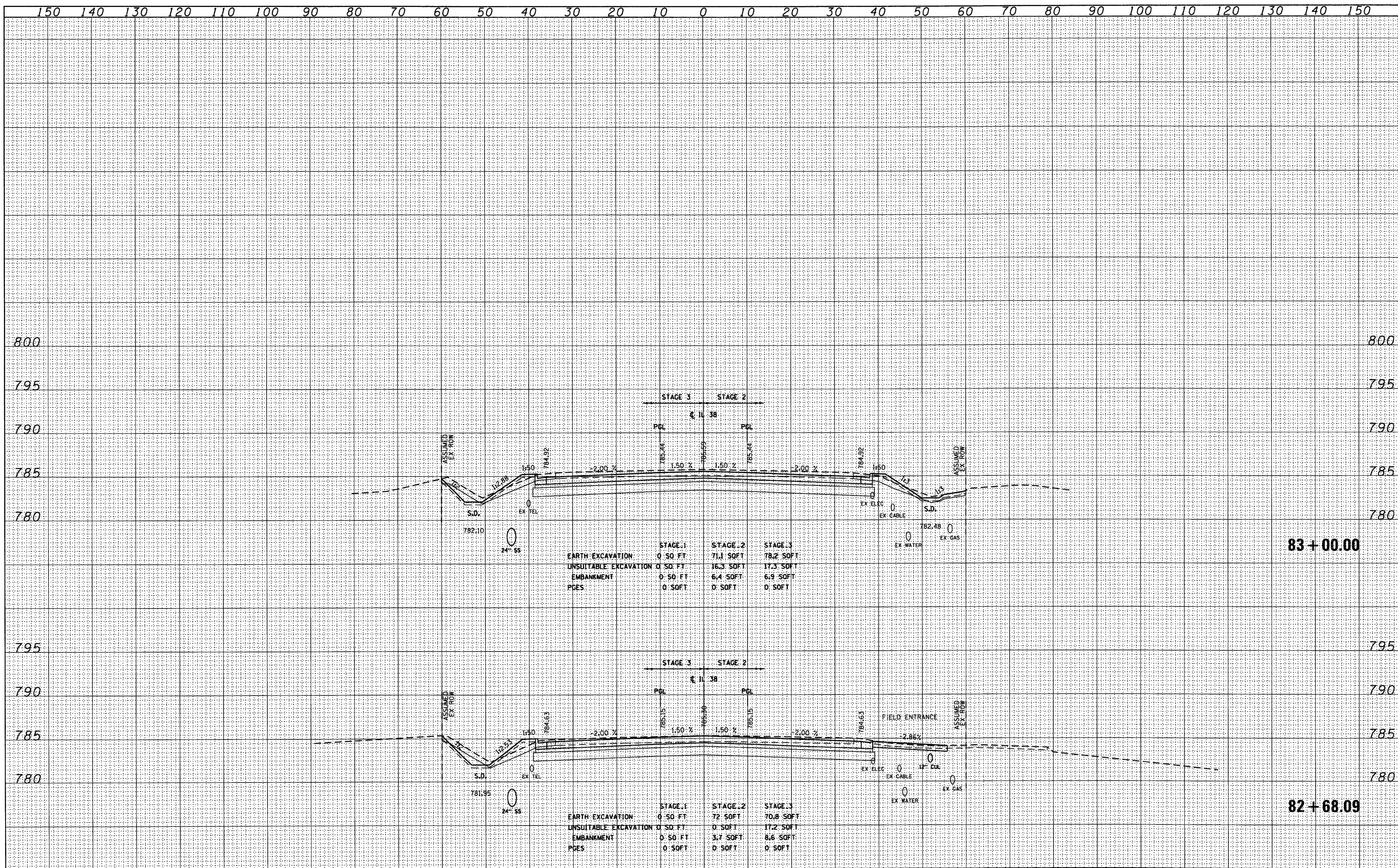


	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	67.8 SOFT	71.3 SOFT
UNSUITABLE EXCAVATION	0.50 FT	17.2 SOFT	17.4 SOFT
EMBANKMENT	0.50 FT	2.2 SOFT	9.0 SOFT
PDES	0.50 FT	0.50 FT	0.50 FT

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	64.7 SOFT	65.2 SOFT
UNSUITABLE EXCAVATION	0.50 FT	16.7 SOFT	17.3 SOFT
EMBANKMENT	0.50 FT	7.9 SOFT	12.4 SOFT
PDES	0.50 FT	0.50 FT	0.50 FT

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

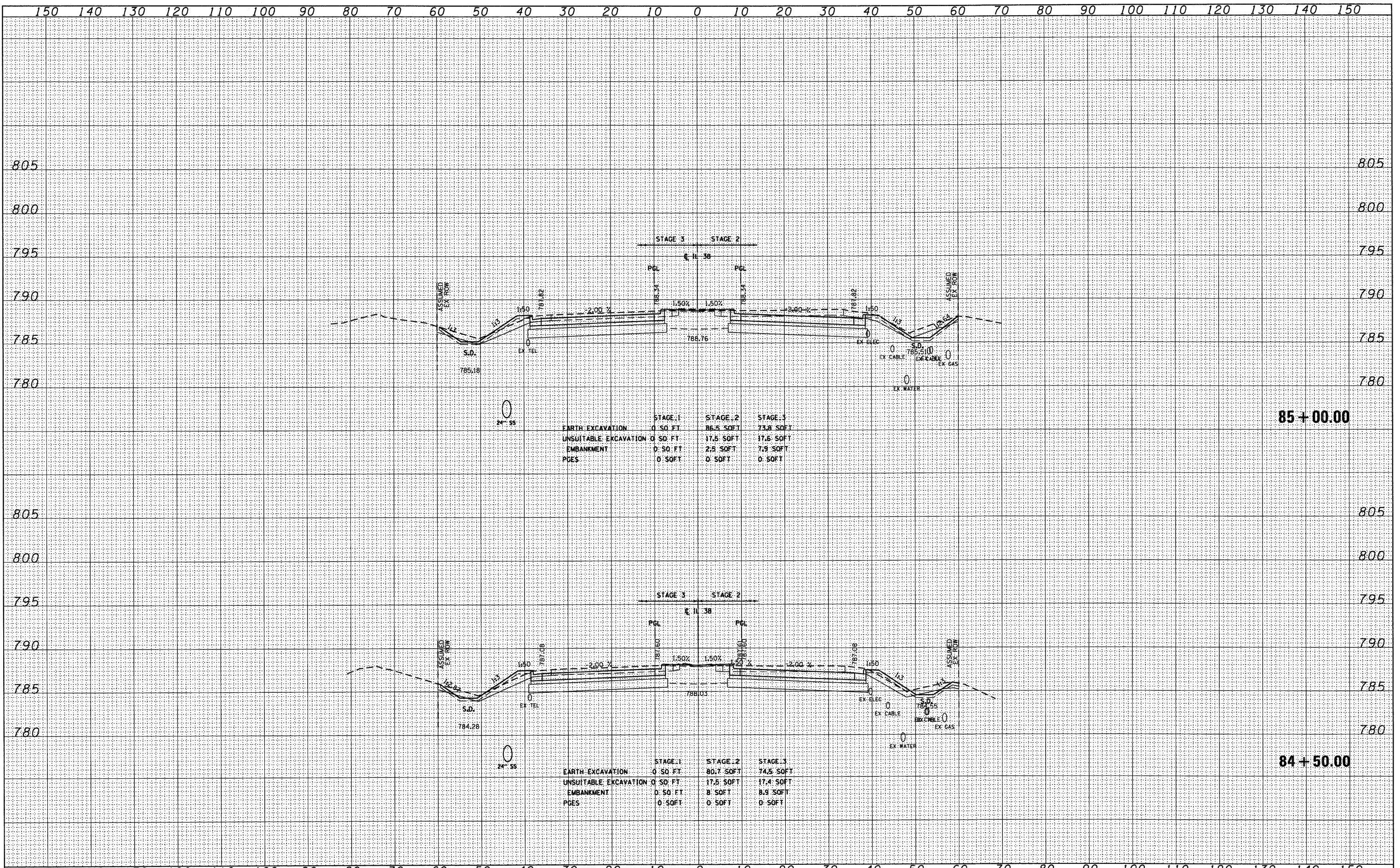
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ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = D:\60122-SHT-XSSH01.dgn	USER NAME = YK1m	DESIGNED - MJT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 38 CROSS SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:10	DRAWN - MJT	REVISED -		SCALE: 1"=10'H 1"=5' V	SHEET NO. 4 OF 152 SHEETS	STA. 82+68.09	TO STA. 83+00.00	421	247	
	PLOT DATE = 10/14/2011	CHECKED - E.JG	REVISED -		XS-38-04		CONTRACT NO.		ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -								

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0 SQ FT	86.5 SOFT	73.8 SOFT
UNSUITABLE EXCAVATION	0 SQ FT	17.6 SOFT	17.6 SOFT
EMBANKMENT	0 SQ FT	2.8 SOFT	7.9 SOFT
PGES	0 SQ FT	0 SQ FT	0 SQ FT

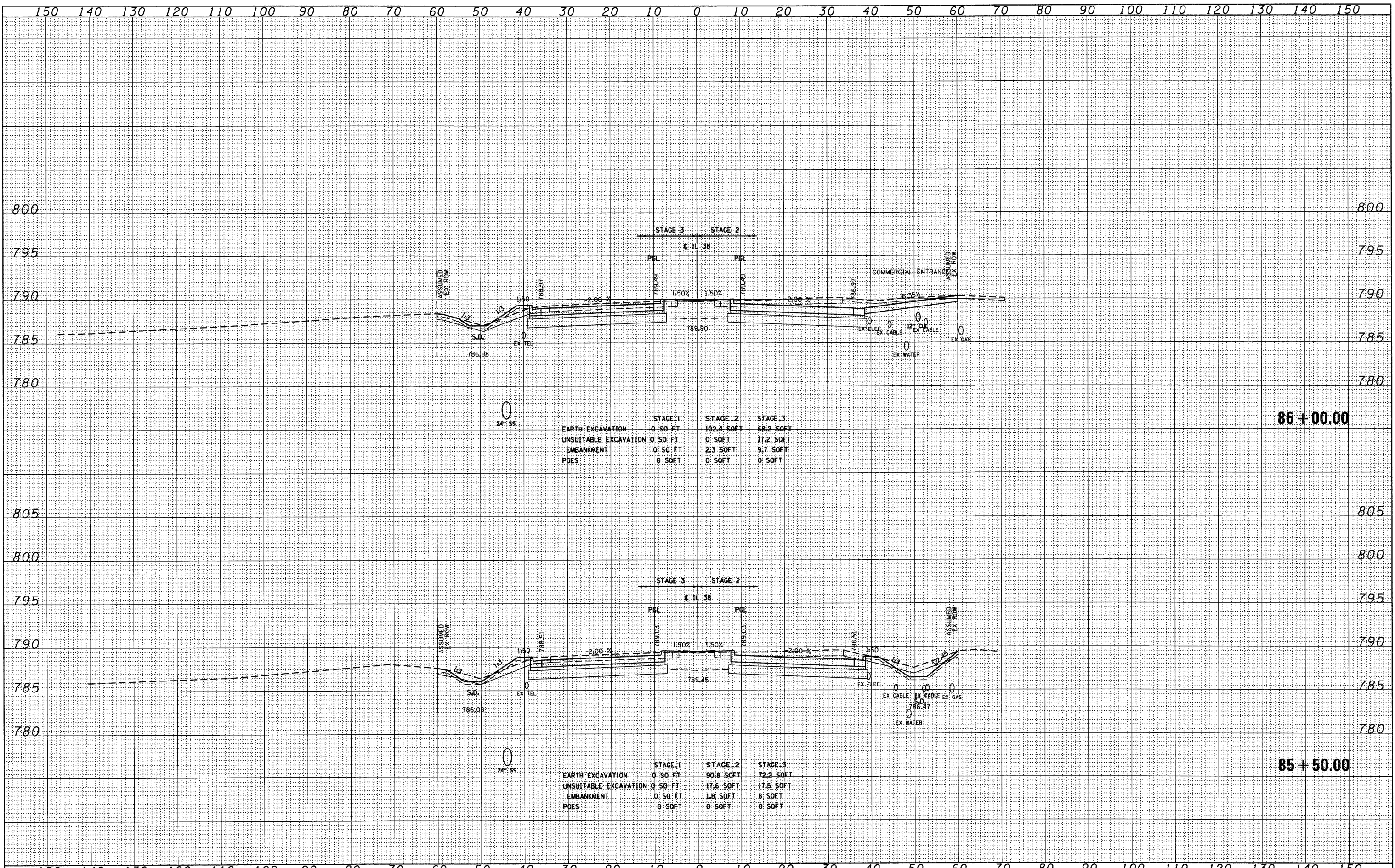
85 + 00.00

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0 SQ FT	80.7 SOFT	74.5 SOFT
UNSUITABLE EXCAVATION	0 SQ FT	17.5 SOFT	17.4 SOFT
EMBANKMENT	0 SQ FT	8 SOFT	8.9 SOFT
PGES	0 SQ FT	0 SQ FT	0 SQ FT

84 + 50.00

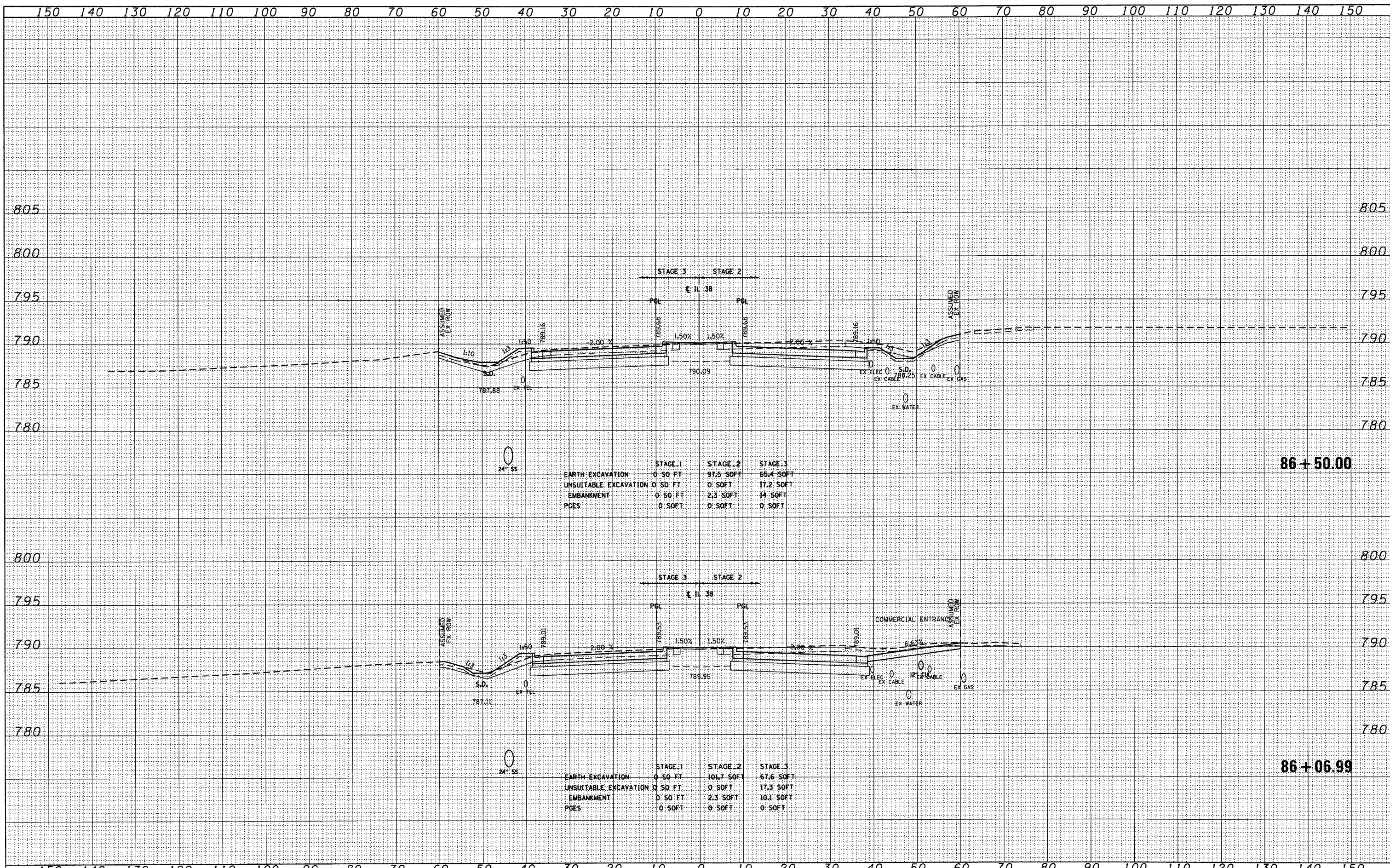
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ORIGINAL SURVEY	
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DATE	
BY	
FINAL SURVEY	
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DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
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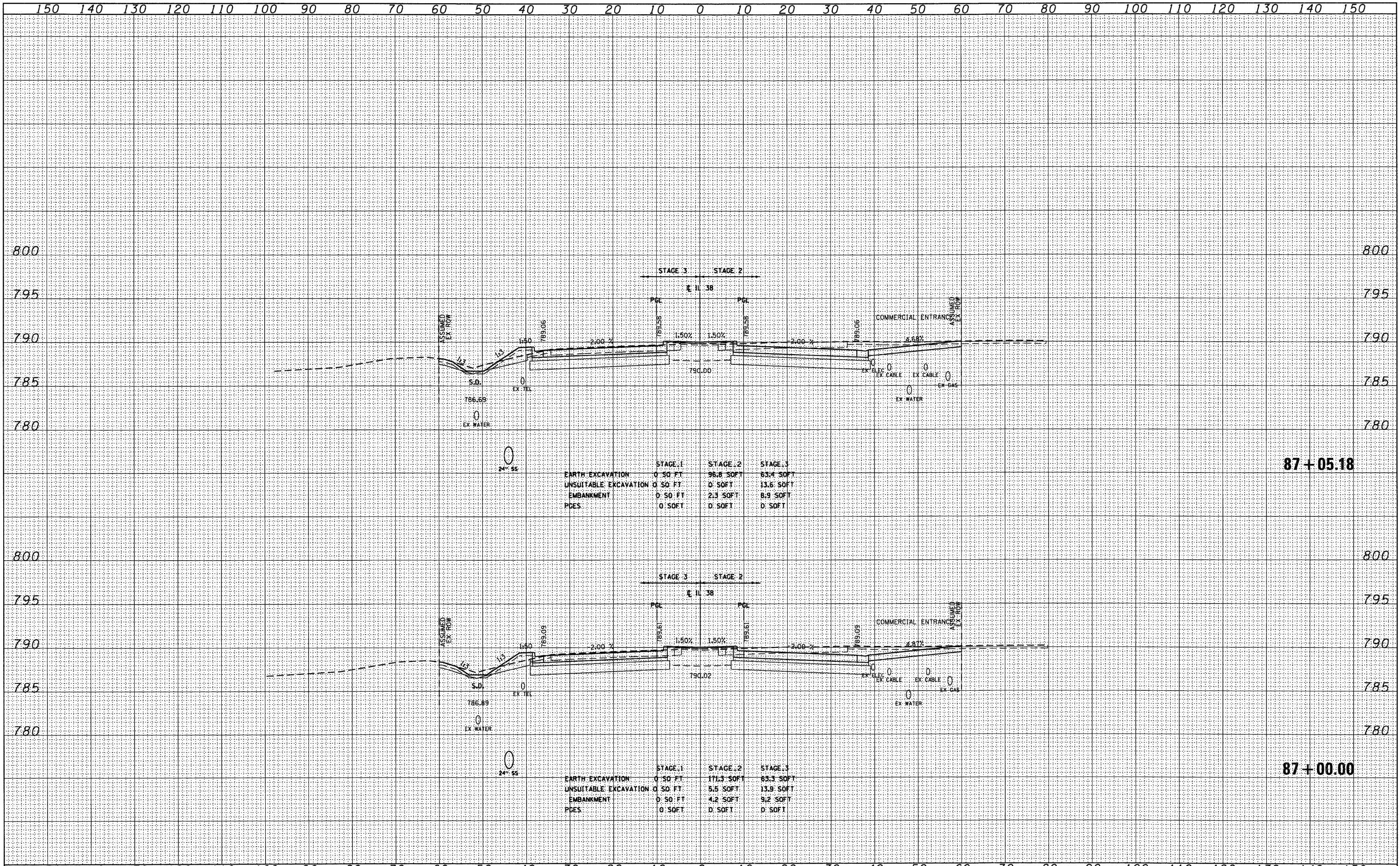


	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	97.5 SOFT	65.4 SOFT
UNSUITABLE EXCAVATION	0.50 FT	0.50 FT	17.2 SOFT
EMBANKMENT	0.50 FT	2.3 SOFT	14.50 FT
PDES	0.50 FT	0.50 FT	0.50 FT

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	101.7 SOFT	67.6 SOFT
UNSUITABLE EXCAVATION	0.50 FT	0.50 FT	17.3 SOFT
EMBANKMENT	0.50 FT	2.3 SOFT	10.1 SOFT
PDES	0.50 FT	0.50 FT	0.50 FT

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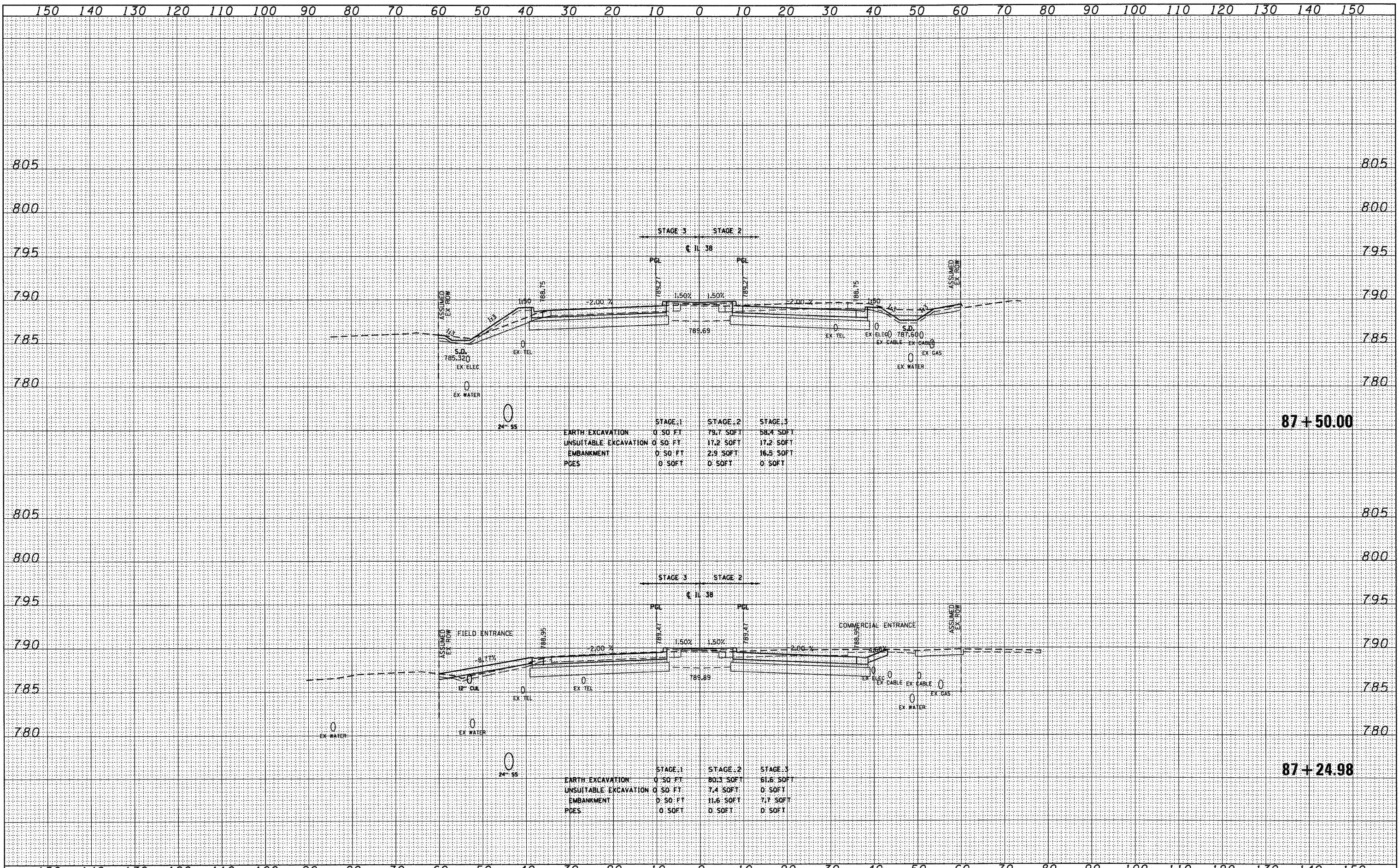


	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.00 SOFT	96.6 SOFT	53.4 SOFT
UNSATURATED EXCAVATION	0.00 SOFT	0.00 SOFT	13.6 SOFT
EMBANKMENT	0.00 SOFT	2.3 SOFT	8.9 SOFT
PDES	0.00 SOFT	0.00 SOFT	0.00 SOFT

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.00 SOFT	171.3 SOFT	65.3 SOFT
UNSATURATED EXCAVATION	0.00 SOFT	5.5 SOFT	13.9 SOFT
EMBANKMENT	0.00 SOFT	4.2 SOFT	9.2 SOFT
PDES	0.00 SOFT	0.00 SOFT	0.00 SOFT

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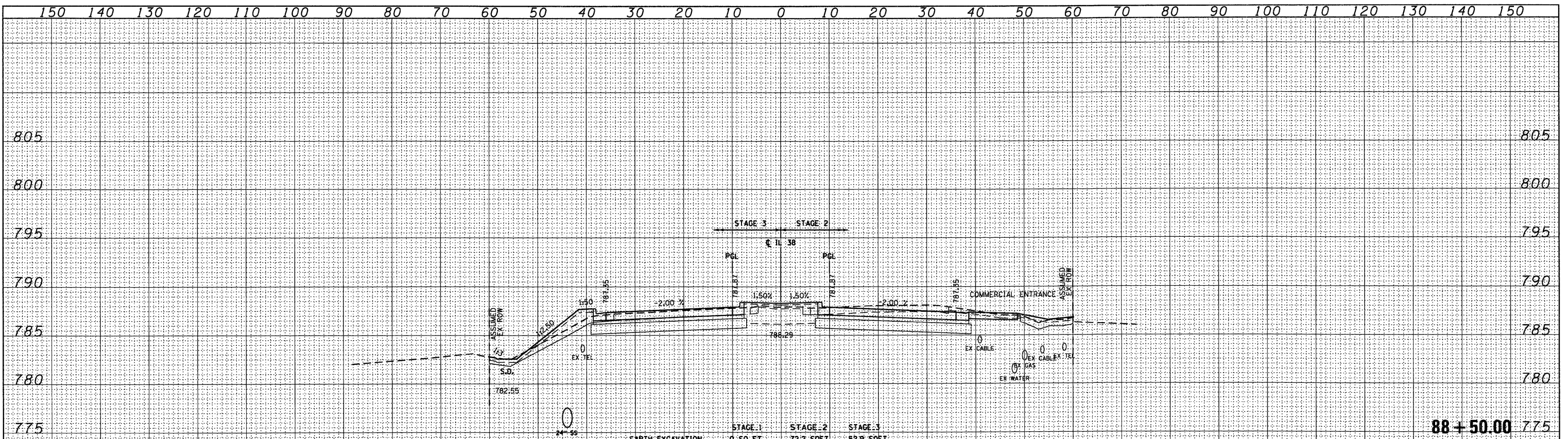


	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	79.7 SOFT	58.4 SOFT
UNSUITABLE EXCAVATION	0.50 FT	17.2 SOFT	17.2 SOFT
EMBANKMENT	0.50 FT	2.9 SOFT	16.5 SOFT
PGES	0.50 FT	0.50 FT	0.50 FT

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	80.3 SOFT	61.6 SOFT
UNSUITABLE EXCAVATION	0.50 FT	7.4 SOFT	0.50 FT
EMBANKMENT	0.50 FT	11.6 SOFT	7.7 SOFT
PGES	0.50 FT	0.50 FT	0.50 FT

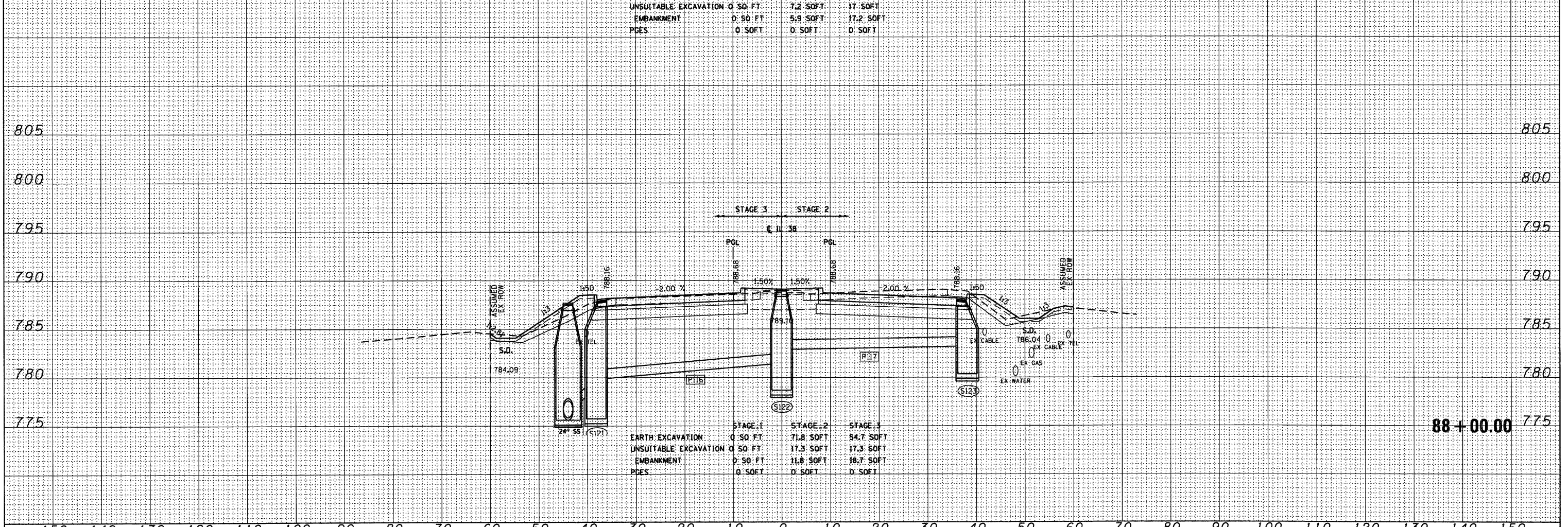
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	72.2 SOFT	52.9 SOFT
UNSUITABLE EXCAVATION	0.50 FT	7.2 SOFT	17.5 SOFT
EMBANKMENT	0.50 FT	5.9 SOFT	17.2 SOFT
PDES	0.50 FT	0.50 FT	0.50 FT

88+50.00

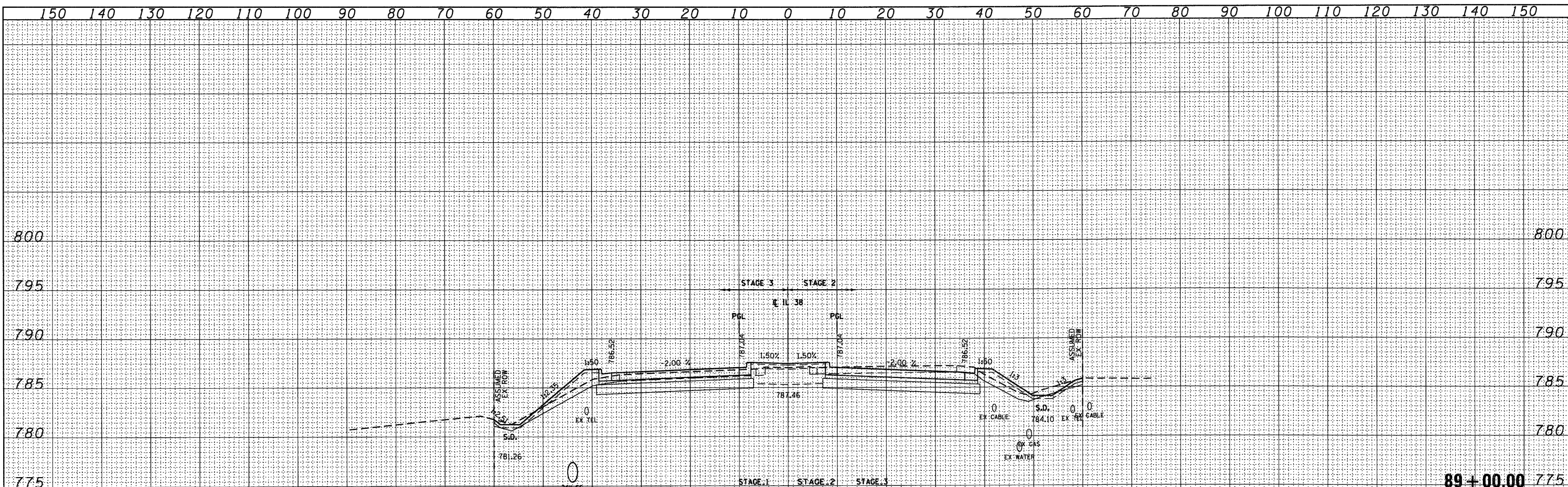


	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	71.8 SOFT	54.7 SOFT
UNSUITABLE EXCAVATION	0.50 FT	17.3 SOFT	17.3 SOFT
EMBANKMENT	0.50 FT	11.8 SOFT	18.7 SOFT
PDES	0.50 FT	0.50 FT	0.50 FT

88+00.00

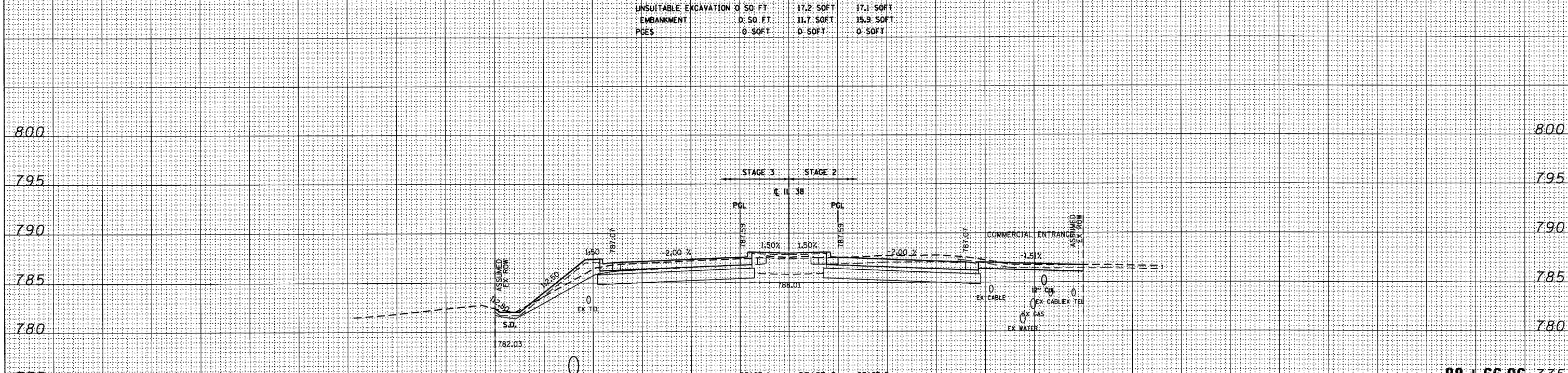
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.00 SOFT	70.10 SOFT	49.90 SOFT
UNSUITABLE EXCAVATION	0.00 SOFT	17.20 SOFT	17.10 SOFT
EMBANKMENT	0.00 SOFT	11.70 SOFT	15.90 SOFT
PCES	0.00 SOFT	0.00 SOFT	0.00 SOFT

89+00.00

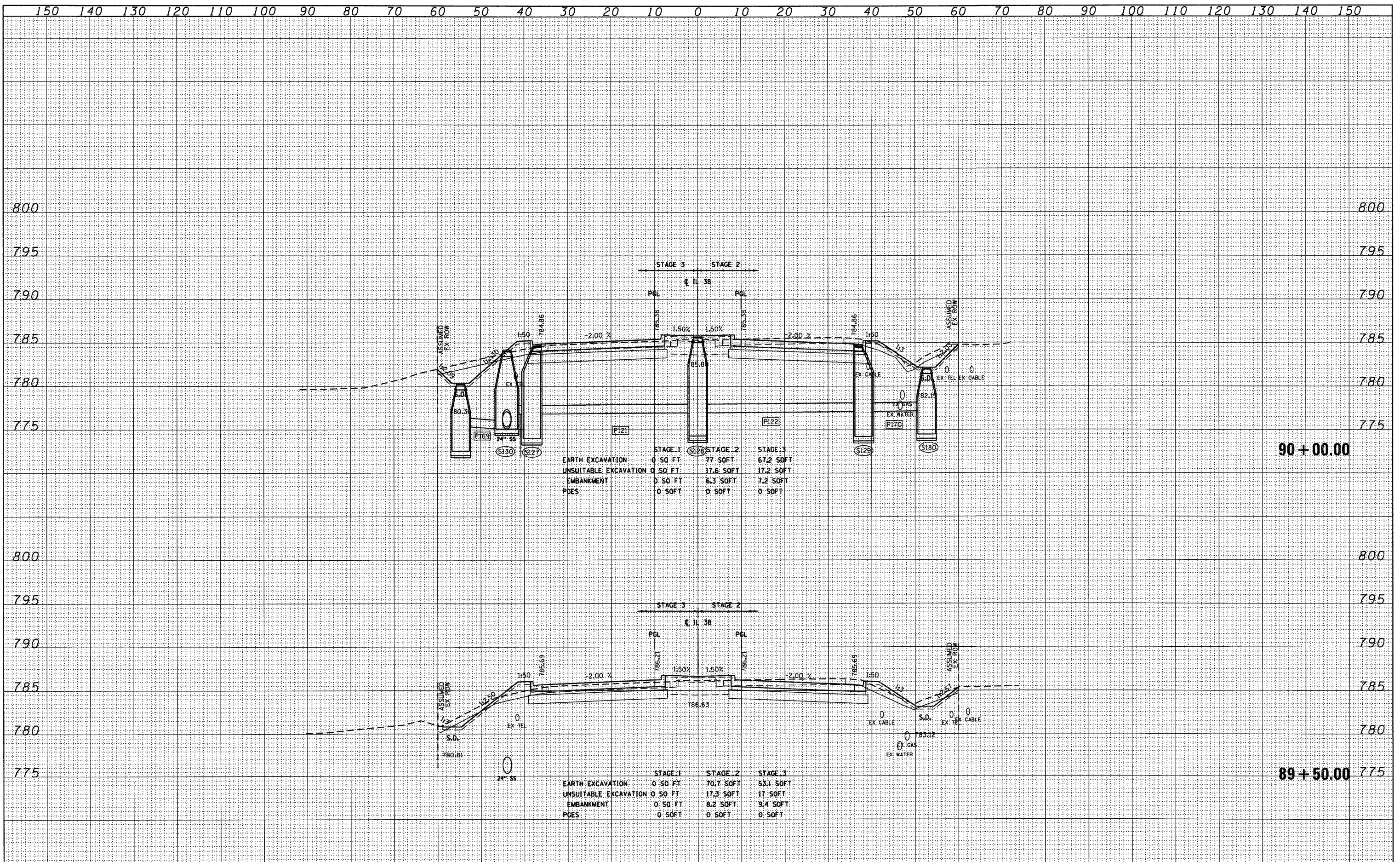


	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.00 SOFT	75.90 SOFT	51.90 SOFT
UNSUITABLE EXCAVATION	0.00 SOFT	0.00 SOFT	17.10 SOFT
EMBANKMENT	0.00 SOFT	2.30 SOFT	17.90 SOFT
PCES	0.00 SOFT	0.00 SOFT	0.00 SOFT

88+66.96

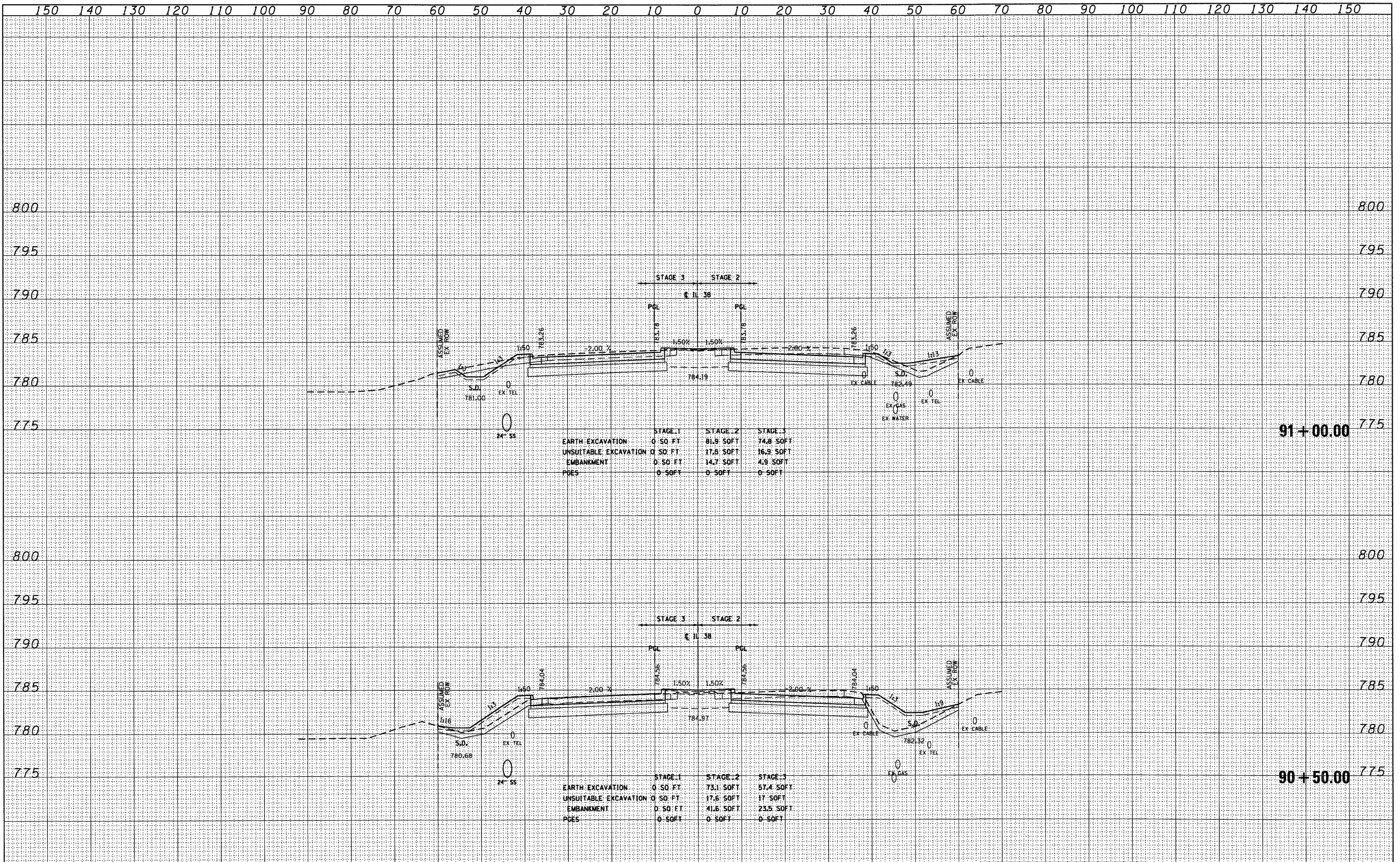
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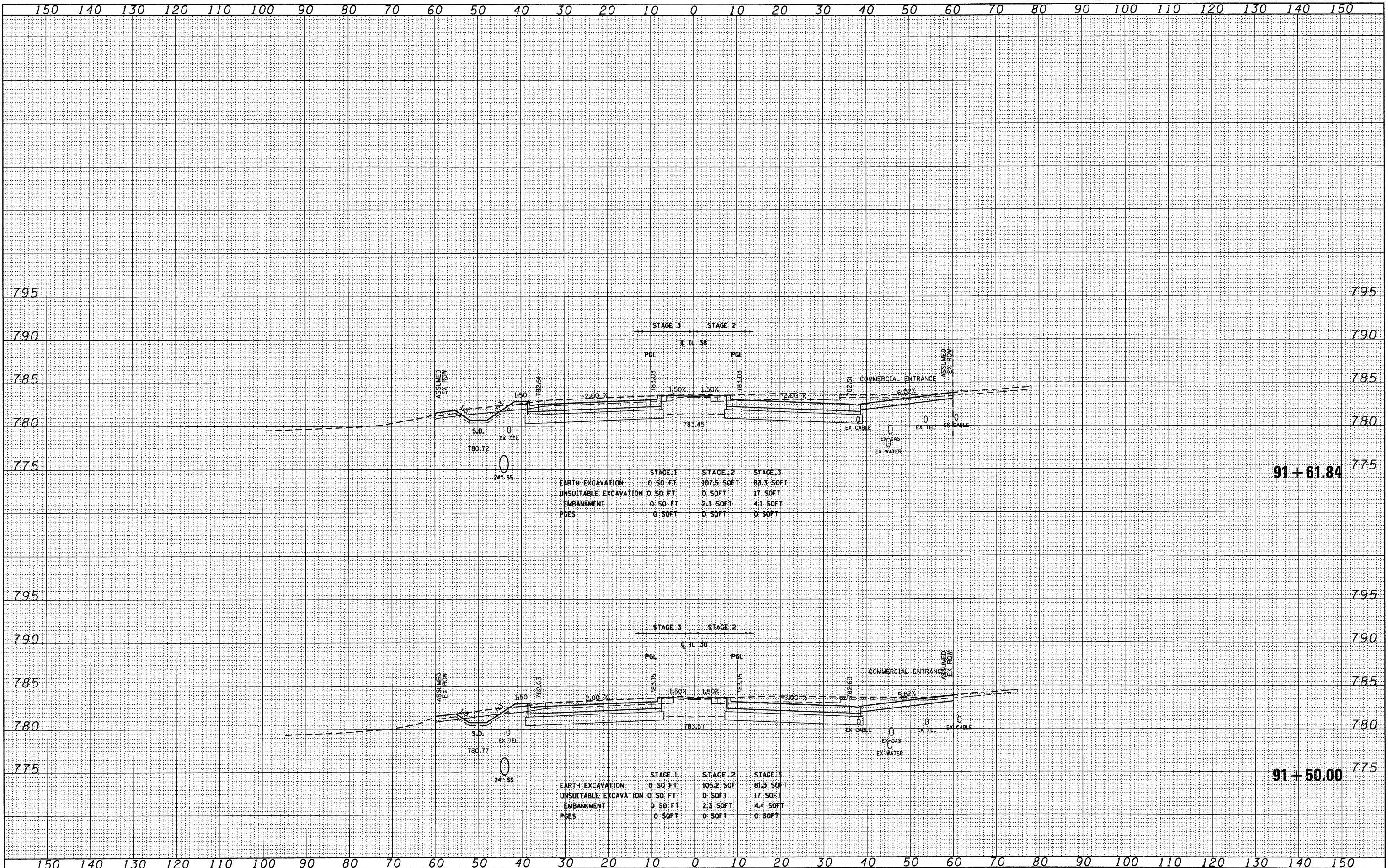
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FINAL SURVEY	SURVEYED	DATE
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ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	107.5 SOFT	85.3 SOFT
UNSUITABLE EXCAVATION	0.50 FT	0 SOFT	17 SOFT
EMBANKMENT	0.50 FT	2.3 SOFT	4.1 SOFT
PCES	0 SOFT	0 SOFT	0 SOFT

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	105.2 SOFT	81.3 SOFT
UNSUITABLE EXCAVATION	0.50 FT	0 SOFT	17 SOFT
EMBANKMENT	0.50 FT	2.3 SOFT	4.4 SOFT
PCES	0 SOFT	0 SOFT	0 SOFT

FILE NAME = D:\60122-SHT-XSSH01.dgn
 USER NAME = YKim
 PLOT SCALE = 1:10
 PLOT DATE = 10/14/2011

DESIGNED - MJT	REVISED -
DRAWN - MJT	REVISED -
CHECKED - EJJ	REVISED -
DATE -	REVISED -

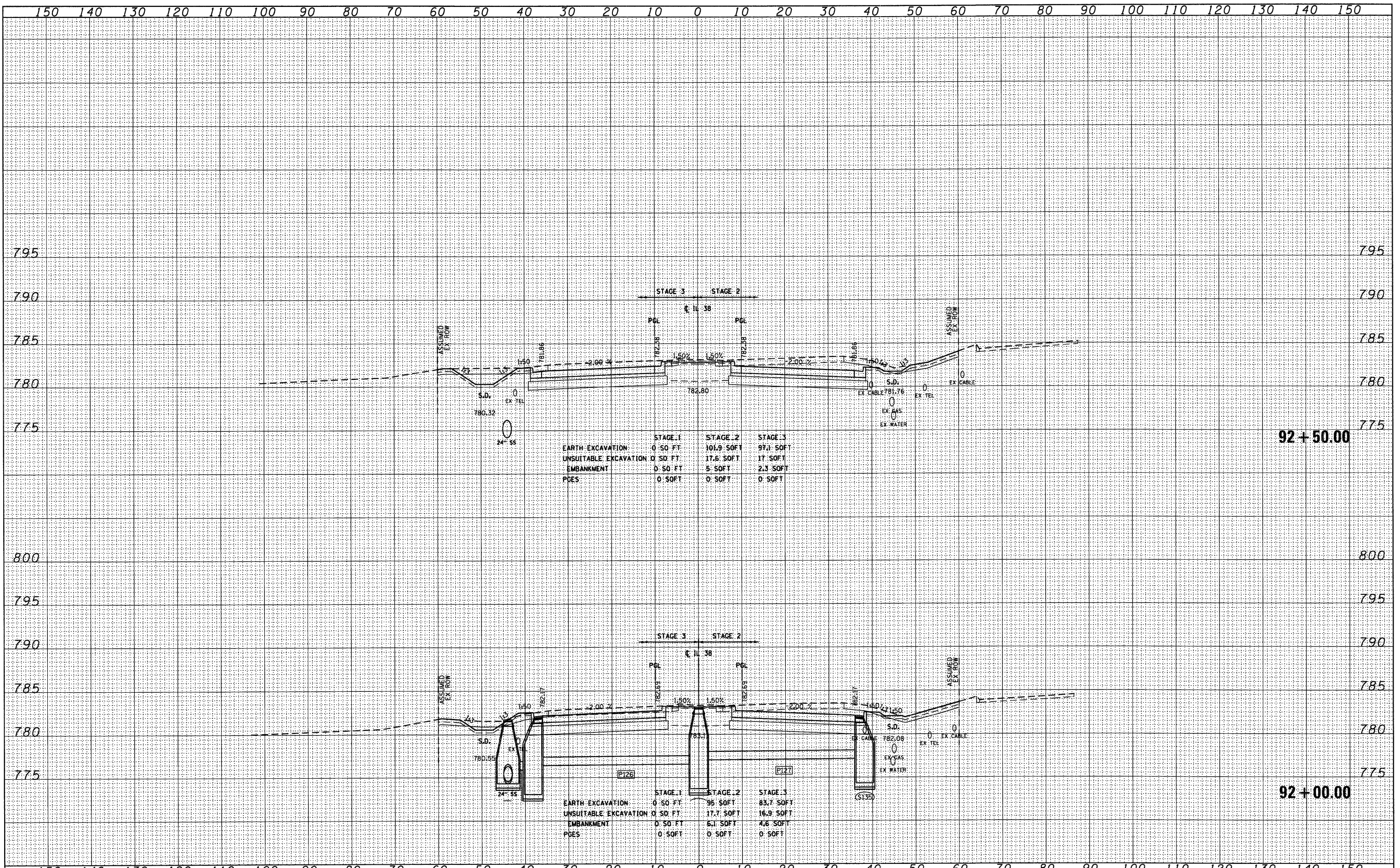
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL ROUTE 38 CROSS SECTIONS
 SCALE: 1"=10'H 1"=5'V SHEET NO. 15 OF 152 SHEETS STA. 91+50.00 TO STA. 91+61.84

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	XS-38-15		421	258
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

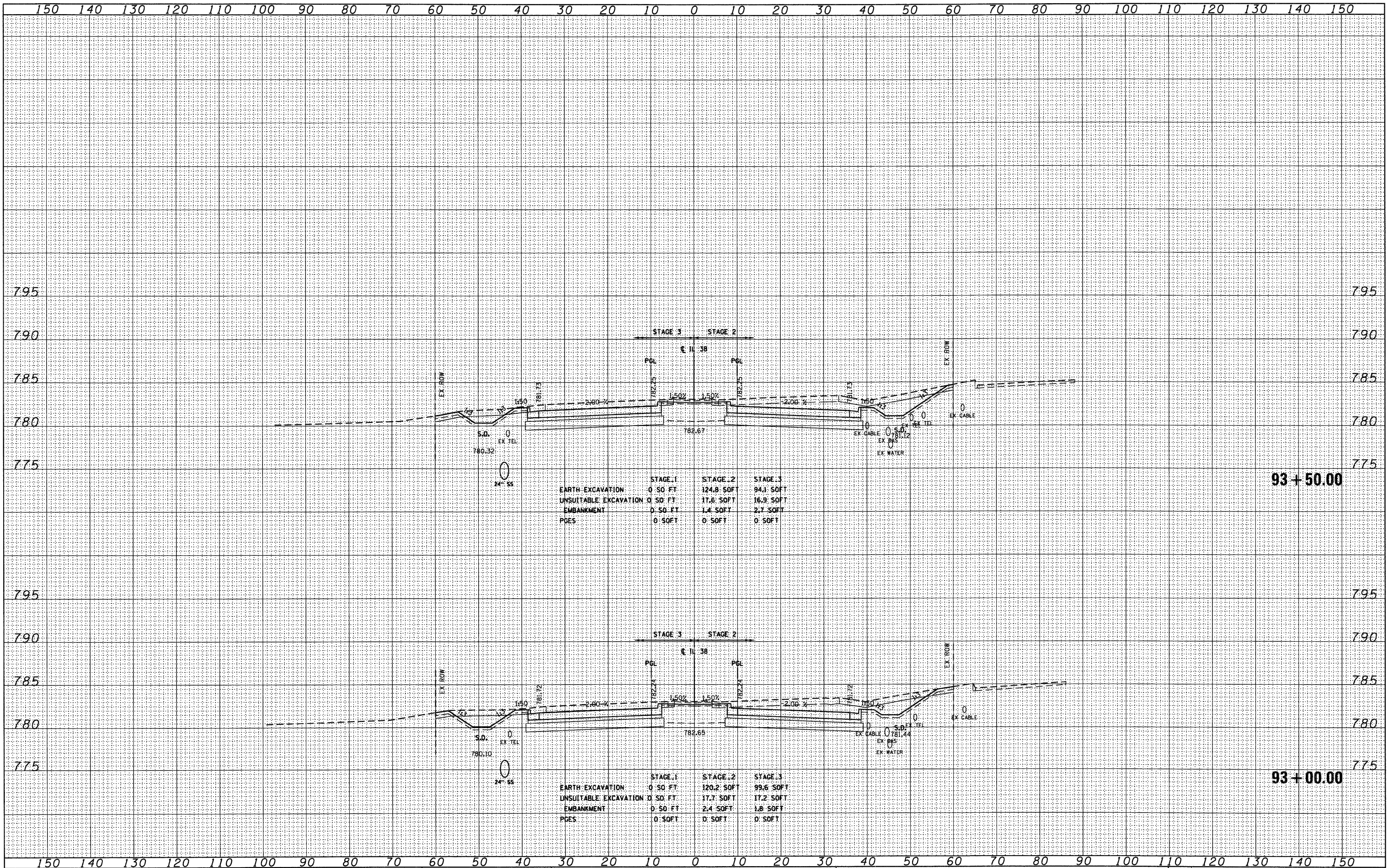
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FINAL SURVEY	SURVEYED	DATE
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ORIGINAL SURVEY	SURVEYED	DATE
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	124.8 SOFT	94.1 SOFT
UNSUITABLE EXCAVATION	0.50 FT	17.6 SOFT	16.9 SOFT
EMBANKMENT	0.50 FT	1.4 SOFT	2.7 SOFT
PGES	0.50 FT	0.50 FT	0.50 FT

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	120.2 SOFT	99.6 SOFT
UNSUITABLE EXCAVATION	0.50 FT	17.7 SOFT	17.2 SOFT
EMBANKMENT	0.50 FT	2.4 SOFT	1.8 SOFT
PGES	0.50 FT	0.50 FT	0.50 FT

FILE NAME = D:\68122-SHT-XSSH101.dgn

USER NAME = YKim	DESIGNED - MJT	REVISED -
	DRAWN - MJT	REVISED -
PLOT SCALE = 1:10	CHECKED - EJJ	REVISED -
PLOT DATE = 10/14/2011	DATE -	REVISED -

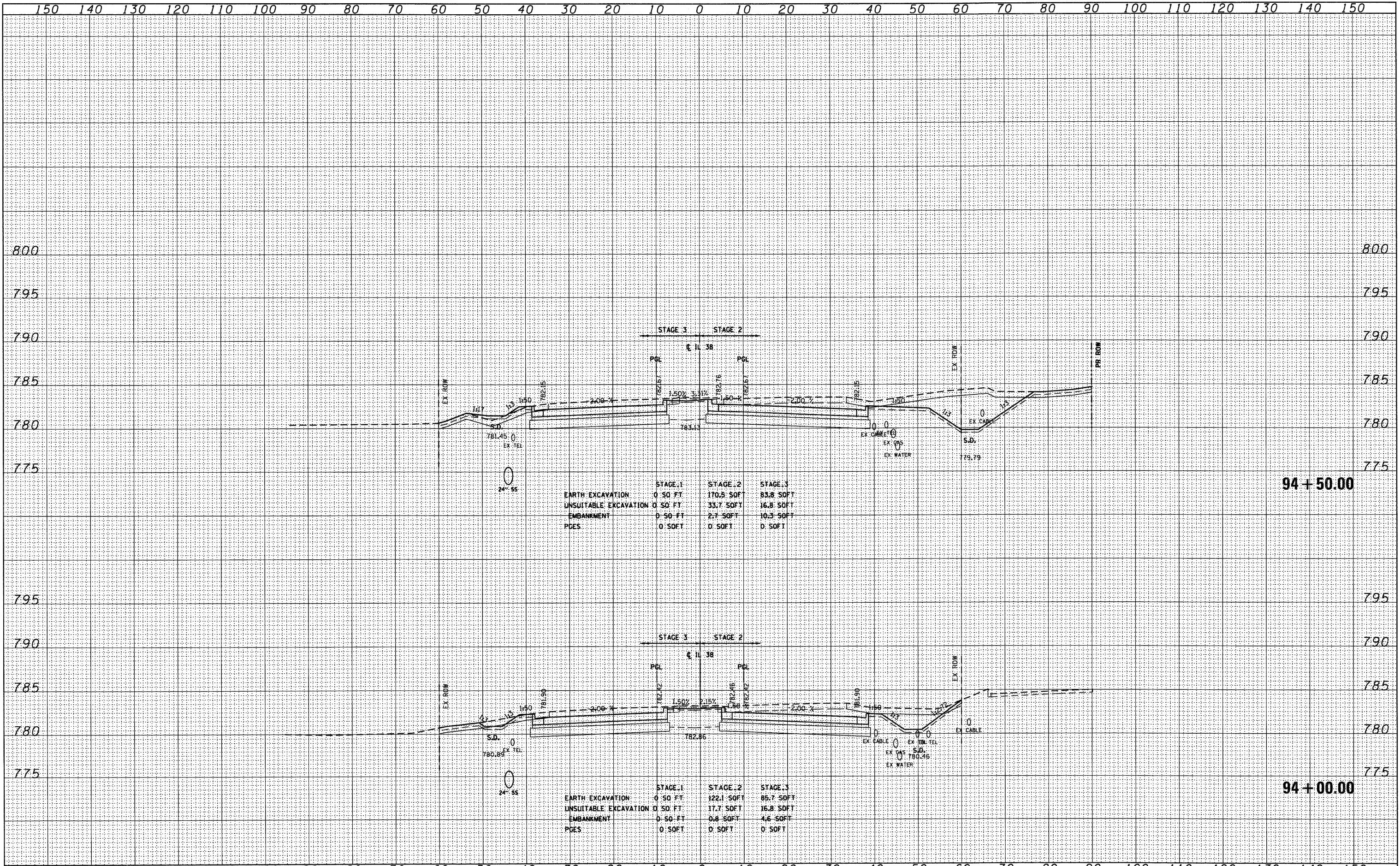
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 38 CROSS SECTIONS
SCALE: 1"=10'H 1/4"=5' V SHEET NO. 17 OF 152 SHEETS STA. 93+00.00 TO STA. 93+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	XS-38-17		421	260
		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

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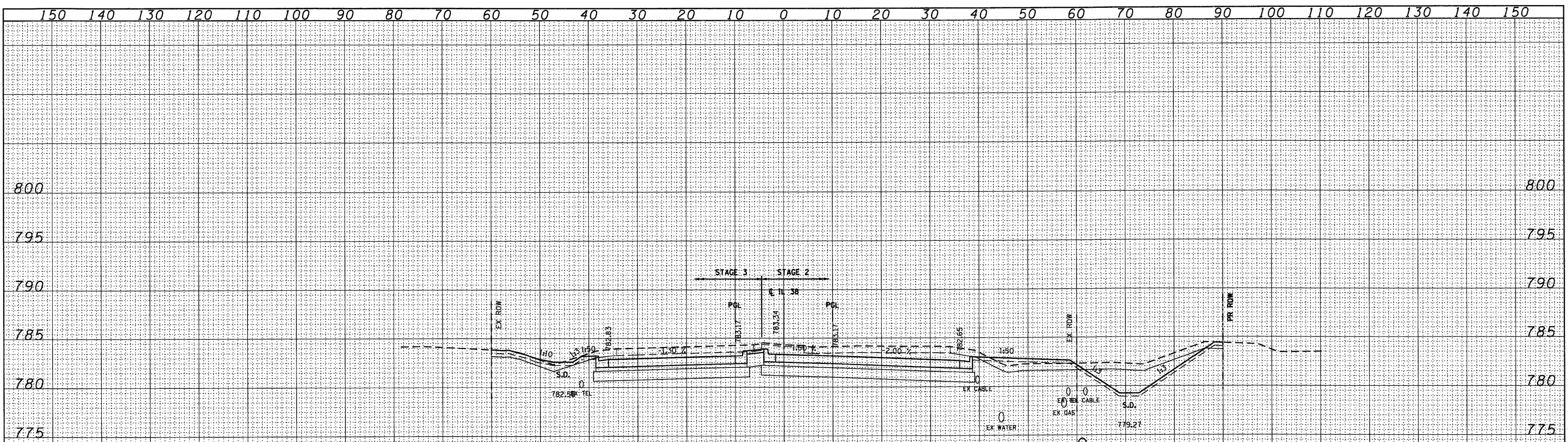


	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	170.5 SOFT	83.8 SOFT
UNSUITABLE EXCAVATION	0.50 FT	33.7 SOFT	16.8 SOFT
EMBANKMENT	0.50 FT	2.7 SOFT	10.3 SOFT
PCES	0.50 FT	0.50 FT	0.50 FT

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	122.1 SOFT	85.7 SOFT
UNSUITABLE EXCAVATION	0.50 FT	17.7 SOFT	16.8 SOFT
EMBANKMENT	0.50 FT	0.8 SOFT	4.6 SOFT
PCES	0.50 FT	0.50 FT	0.50 FT

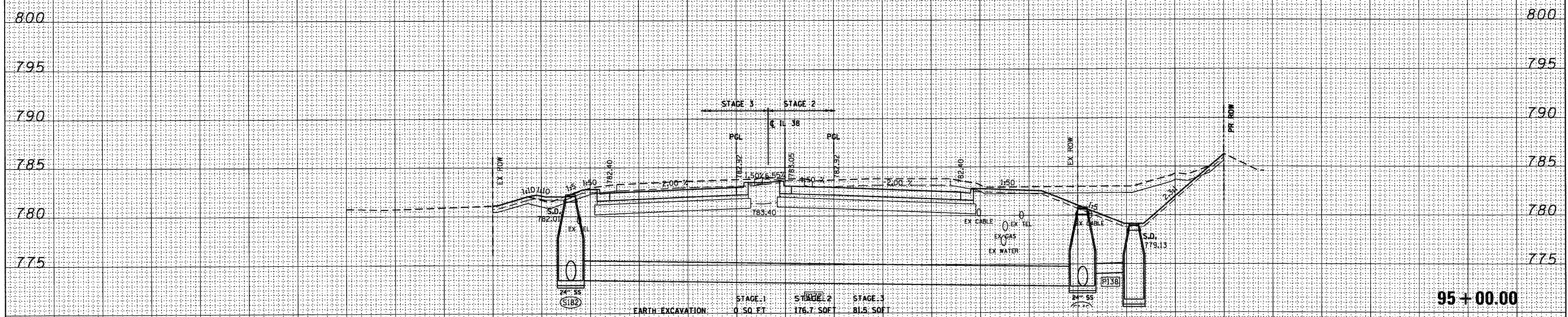
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	160.7 SOFT	85.1 SOFT
UNSUITABLE EXCAVATION	0.50 FT	37.3 SOFT	17.1 SOFT
EMBANKMENT	0.50 FT	15.1 SOFT	6.4 SOFT
PGES	0.50 FT	0.50 FT	0.50 FT

95+50.00

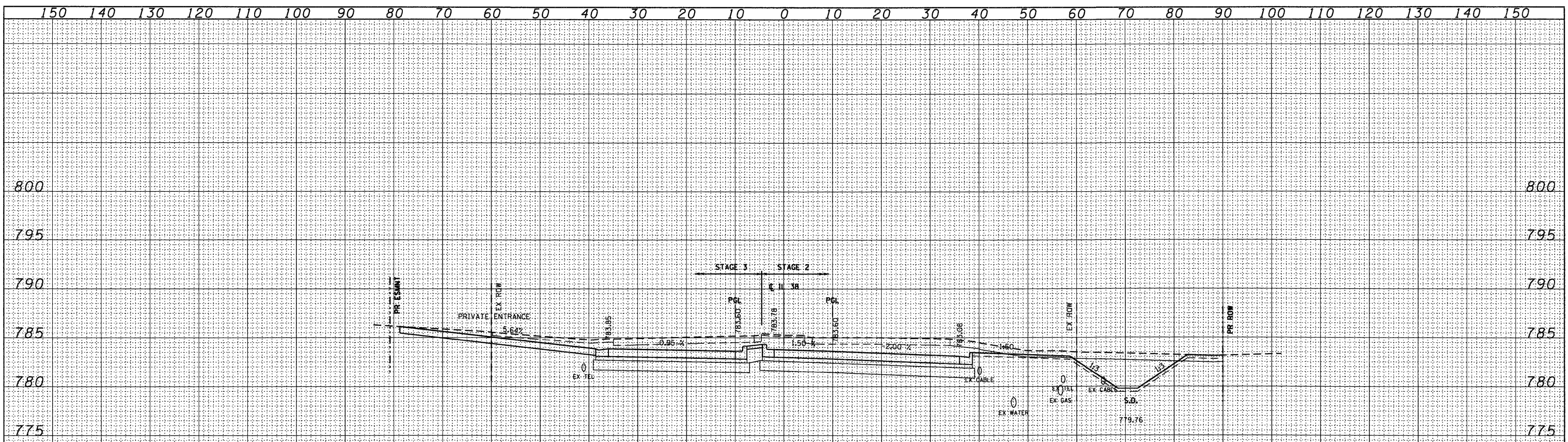


	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	176.7 SOFT	81.5 SOFT
UNSUITABLE EXCAVATION	0.50 FT	37.5 SOFT	17.0 SOFT
EMBANKMENT	0.50 FT	1.9 SOFT	9.2 SOFT
PGES	0.50 FT	0.50 FT	0.50 FT

95+00.00

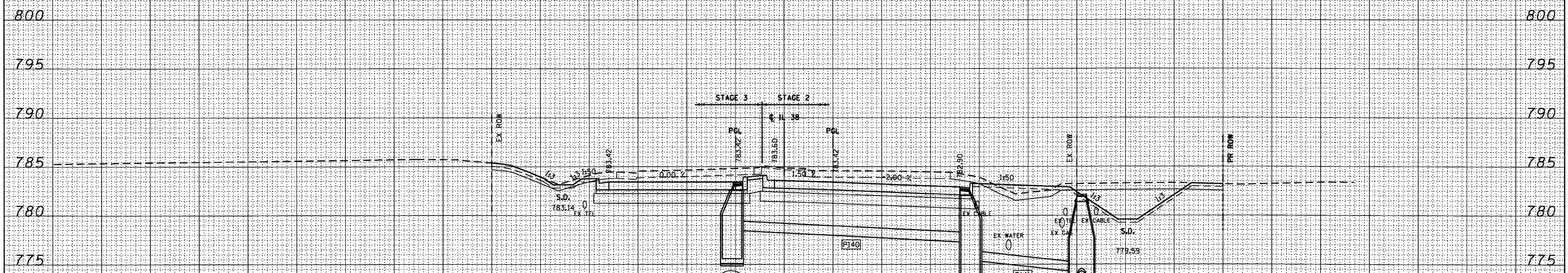
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	187.9 SOFT	134.3 SOFT
UNSUITABLE EXCAVATION	0.50 FT	37.3 SOFT	0 SOFT
EMBANKMENT	0.50 FT	2.6 SOFT	0 SOFT
PDES	0 SOFT	0 SOFT	0 SOFT

96 + 36.41

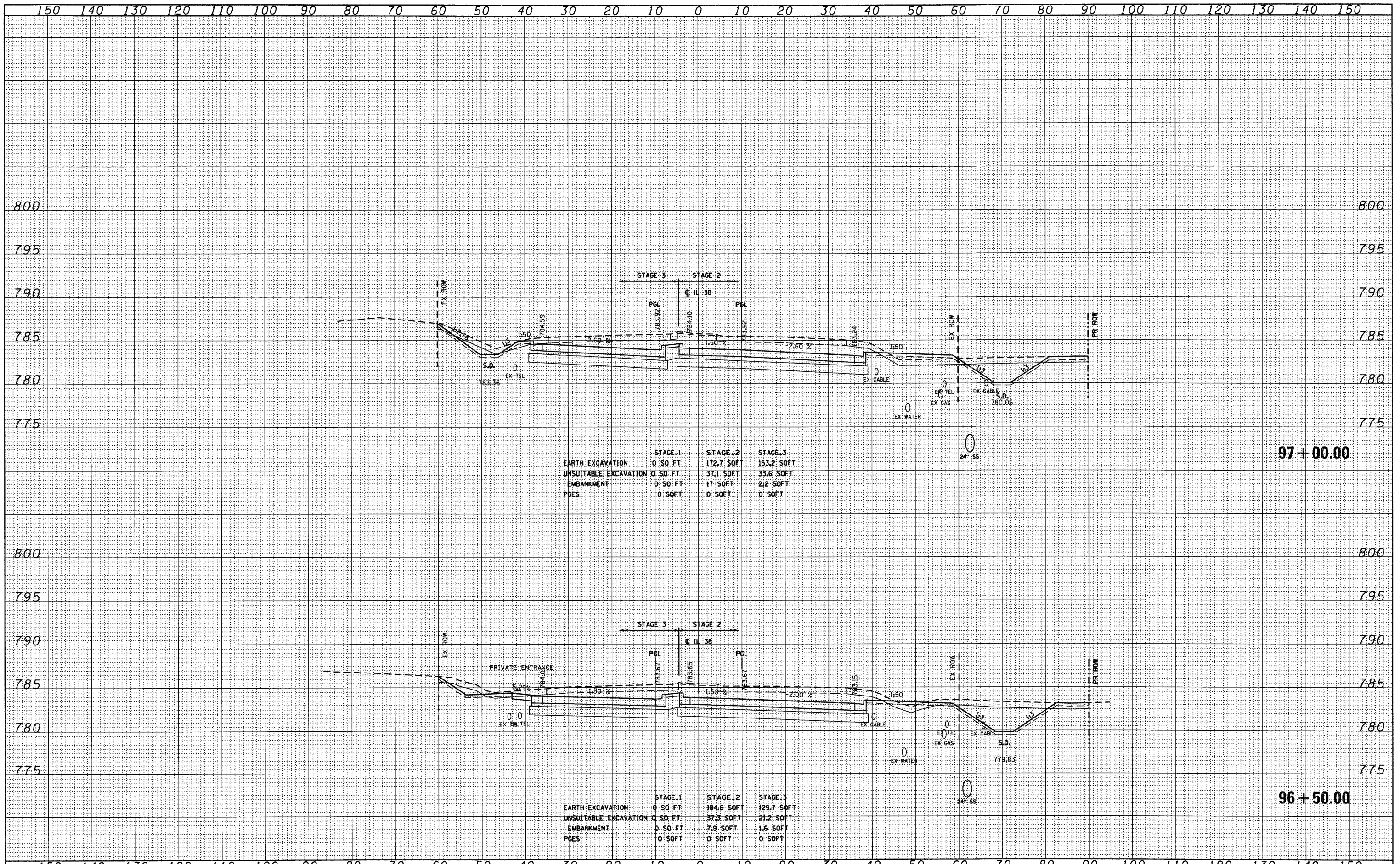


	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	174.6 SOFT	91 SOFT
UNSUITABLE EXCAVATION	0.50 FT	37.3 SOFT	17.1 SOFT
EMBANKMENT	0.50 FT	14.1 SOFT	4.6 SOFT
PDES	0 SOFT	0 SOFT	0 SOFT

96 + 00.00

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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0 SO FT	172.7 SOFT	153.2 SOFT
UNSUITABLE EXCAVATION	0 SO FT	37.1 SOFT	33.6 SOFT
EMBANKMENT	0 SO FT	11 SOFT	2.2 SOFT
PCES	0 SOFT	0 SOFT	0 SOFT

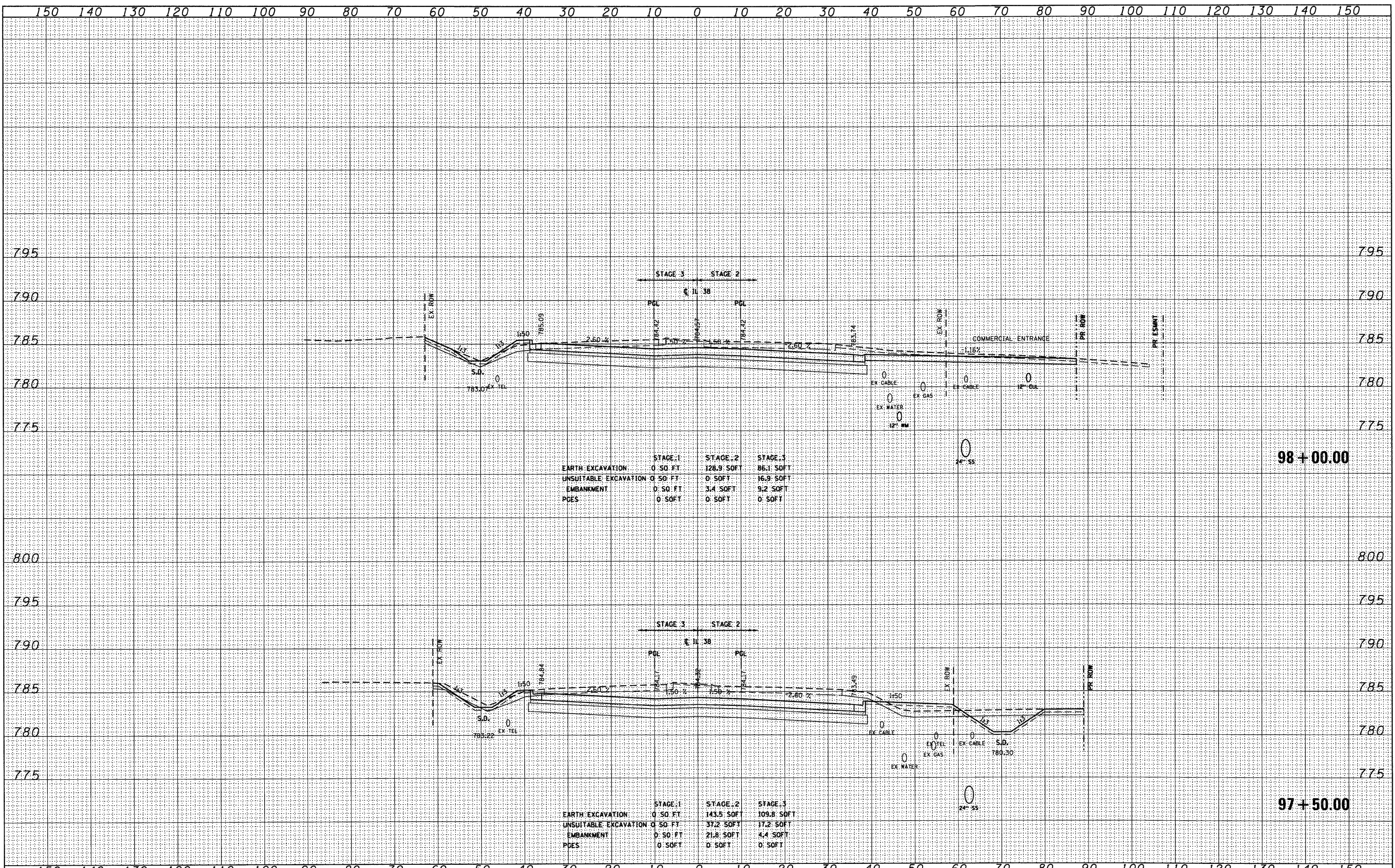
97+00.00

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0 SO FT	184.6 SOFT	129.7 SOFT
UNSUITABLE EXCAVATION	0 SO FT	37.3 SOFT	21.2 SOFT
EMBANKMENT	0 SO FT	7.9 SOFT	1.6 SOFT
PCES	0 SOFT	0 SOFT	0 SOFT

96+50.00

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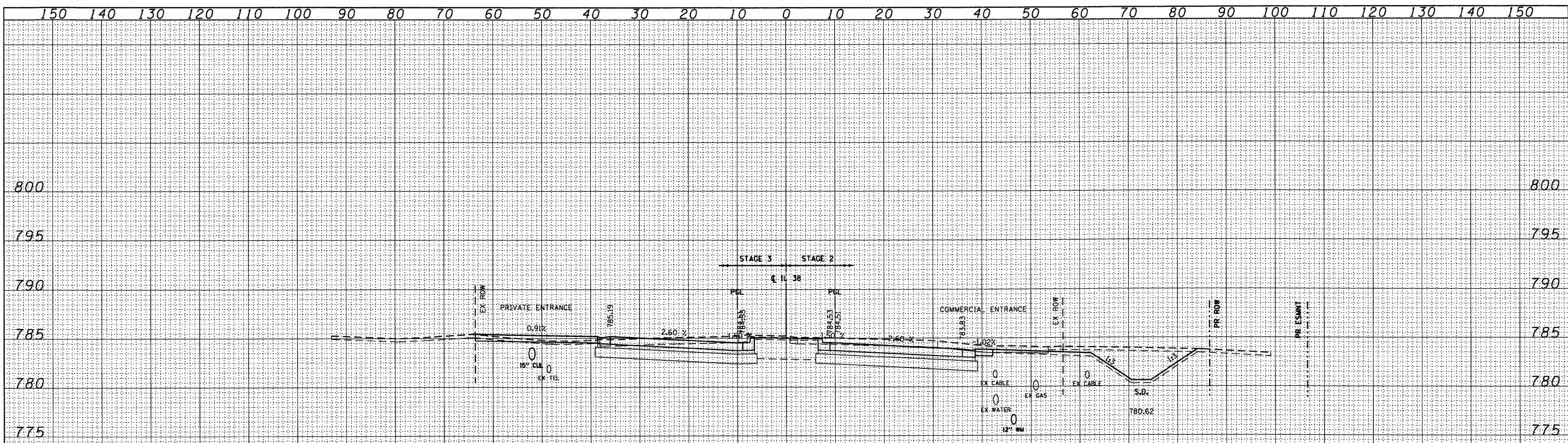


	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	128.9 SOFT	86.1 SOFT
UNSUITABLE EXCAVATION	0.50 FT	0 SOFT	16.9 SOFT
EMBANKMENT	0.50 FT	3.4 SOFT	9.2 SOFT
PCES	0 SOFT	0 SOFT	0 SOFT

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 FT	143.5 SOFT	109.8 SOFT
UNSUITABLE EXCAVATION	0.50 FT	37.2 SOFT	17.2 SOFT
EMBANKMENT	0.50 FT	21.8 SOFT	4.4 SOFT
PCES	0 SOFT	0 SOFT	0 SOFT

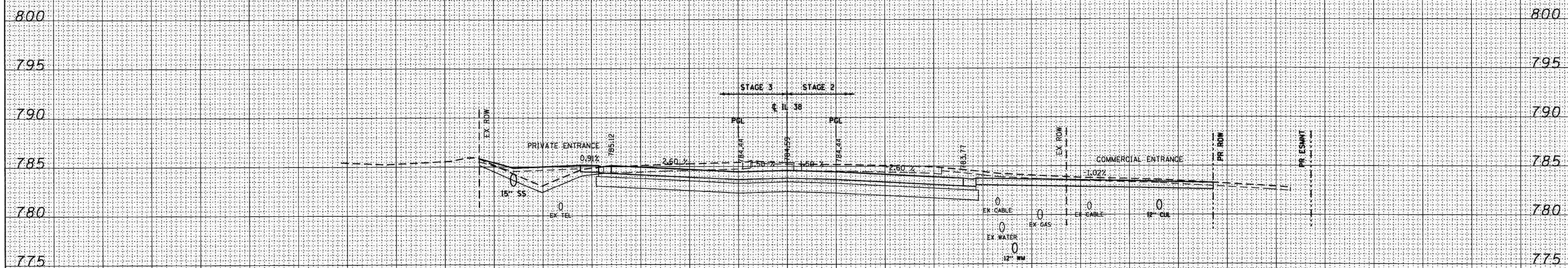
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0 SO FT	132 SOFT	72.4 SOFT
UNSUITABLE EXCAVATION	0 SO FT	15.1 SOFT	0 SOFT
EMBANKMENT	0 SO FT	3.7 SOFT	6 SOFT
PGES	0 SOFT	0 SOFT	0 SOFT

98+18.48

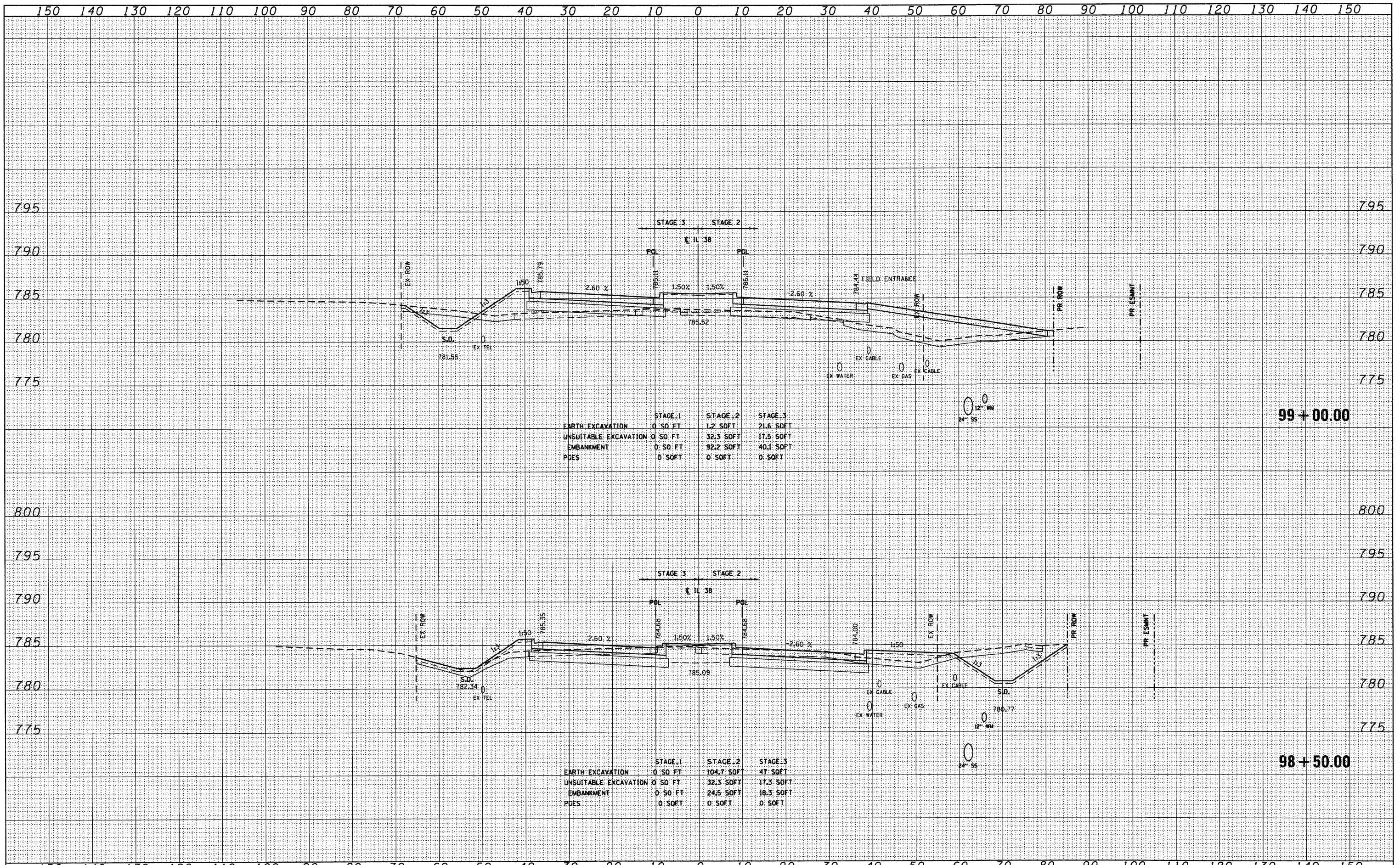


	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0 SO FT	124.7 SOFT	82.5 SOFT
UNSUITABLE EXCAVATION	0 SO FT	0 SOFT	17 SOFT
EMBANKMENT	0 SO FT	3.5 SOFT	27 SOFT
PGES	0 SOFT	0 SOFT	0 SOFT

98+05.10

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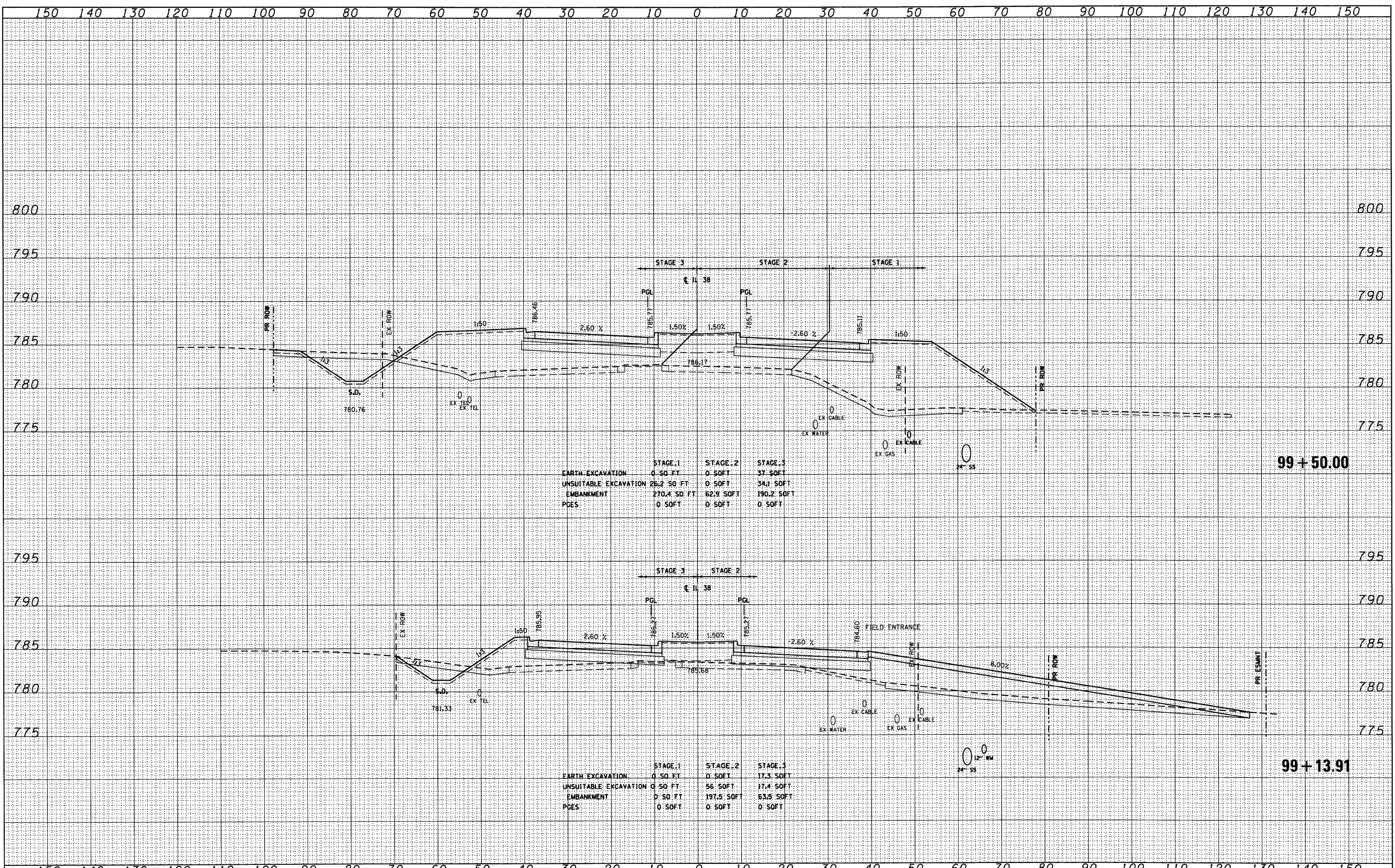


	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.00 SOFT	1.20 SOFT	21.60 SOFT
UNSUITABLE EXCAVATION	0.00 SOFT	32.30 SOFT	17.50 SOFT
EMBANKMENT	0.00 SOFT	32.20 SOFT	40.10 SOFT
PDES	0.00 SOFT	0.00 SOFT	0.00 SOFT

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.00 SOFT	104.70 SOFT	47.00 SOFT
UNSUITABLE EXCAVATION	0.00 SOFT	32.30 SOFT	17.30 SOFT
EMBANKMENT	0.00 SOFT	24.50 SOFT	18.30 SOFT
PDES	0.00 SOFT	0.00 SOFT	0.00 SOFT

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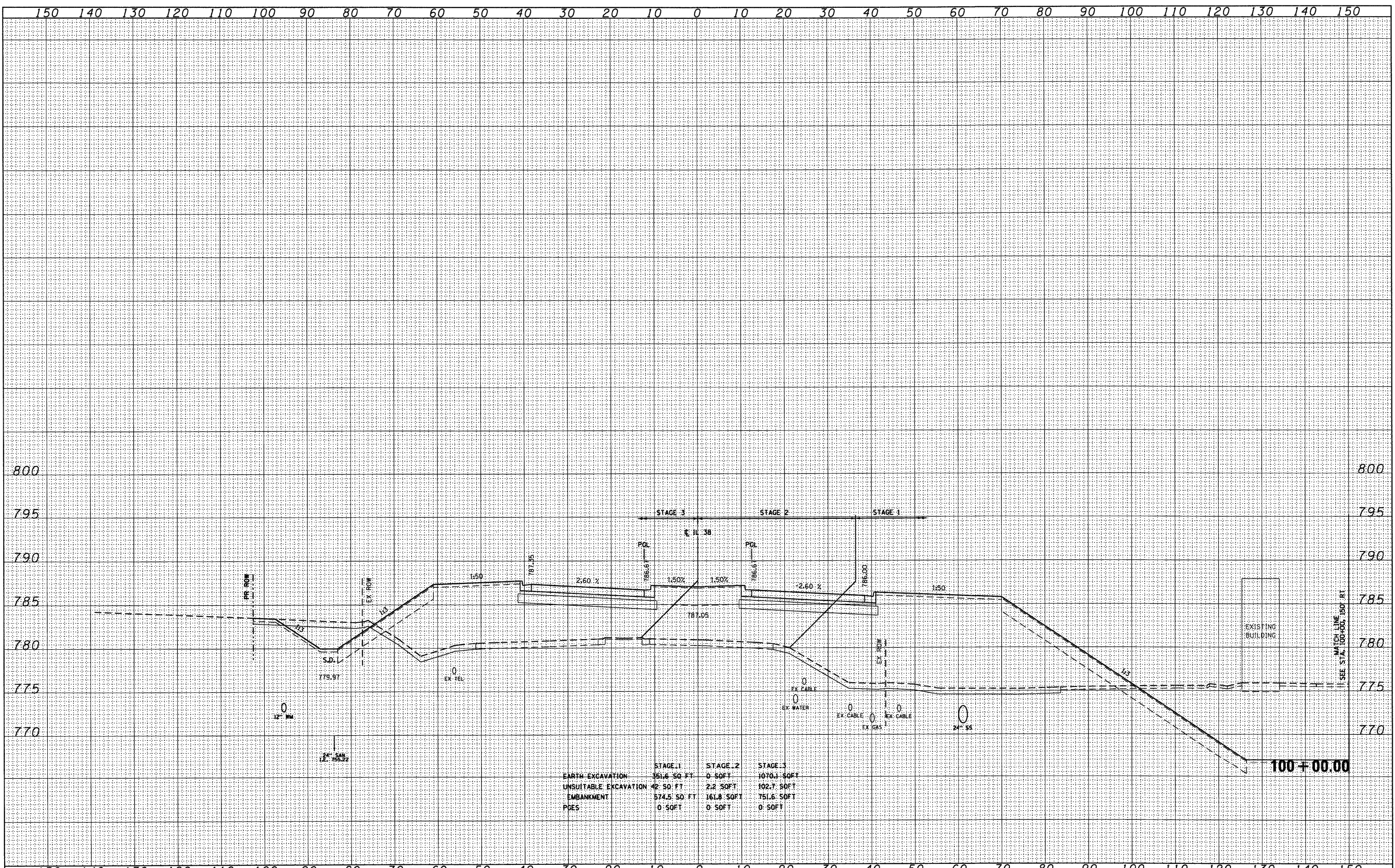


	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0 SQ. FT.	0 SQ. FT.	37 SQ. FT.
UNSUITABLE EXCAVATION	26.2 SQ. FT.	0 SQ. FT.	34.1 SQ. FT.
EMBANKMENT	270.4 SQ. FT.	62.9 SQ. FT.	190.2 SQ. FT.
PCES	0 SQ. FT.	0 SQ. FT.	0 SQ. FT.

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0 SQ. FT.	0 SQ. FT.	17.3 SQ. FT.
UNSUITABLE EXCAVATION	0 SQ. FT.	56 SQ. FT.	17.4 SQ. FT.
EMBANKMENT	0 SQ. FT.	197.5 SQ. FT.	53.5 SQ. FT.
PCES	0 SQ. FT.	0 SQ. FT.	0 SQ. FT.

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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	351.6 SQ. FT.	0 SQ. FT.	1070.1 SQ. FT.
UNSUITABLE EXCAVATION	42 SQ. FT.	2.2 SQ. FT.	102.7 SQ. FT.
EMBANKMENT	574.5 SQ. FT.	161.8 SQ. FT.	751.6 SQ. FT.
P.C.S.	0 SQ. FT.	0 SQ. FT.	0 SQ. FT.

FILE NAME = D:\60122-SHT-XSSHT01.dgn

USER NAME = YKlm	DESIGNED - MJT	REVISED -
PLOT SCALE = 1:10	DRAWN - MJT	REVISED -
PLOT DATE = 10/14/2011	CHECKED - EJJ	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

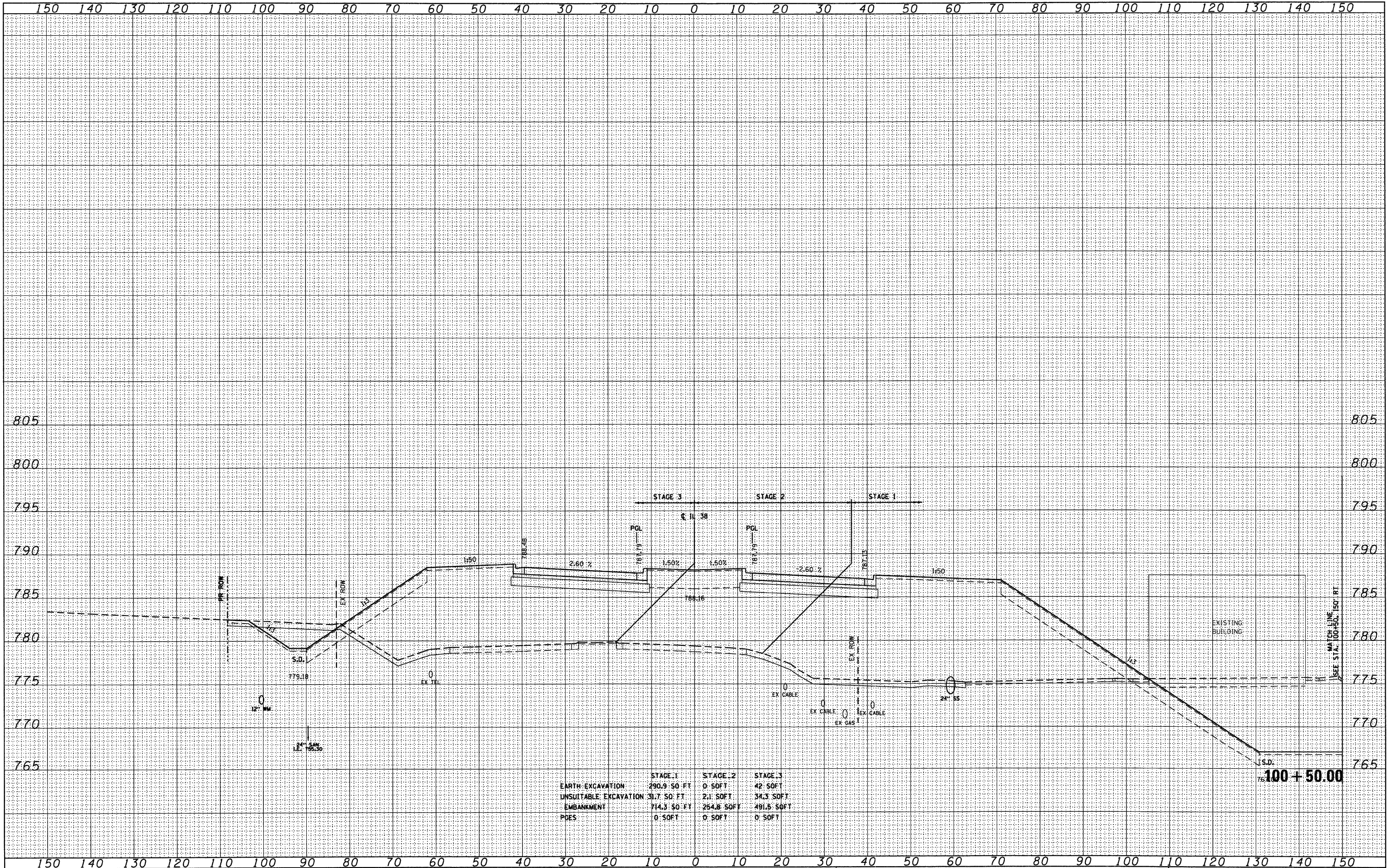
IL ROUTE 38 CROSS SECTIONS

SCALE: 1"=10'H; 1"=5'V SHEET NO. 26 OF 152 SHEETS STA. 100+00.00 TO STA. 100+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	XS-38-26		421	269
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

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NOTE DATE	
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FILE NAME = D:\60122-SHT-XSSH101.dgn

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PLOT SCALE = 1:10	DRAWN - MJT	REVISED -
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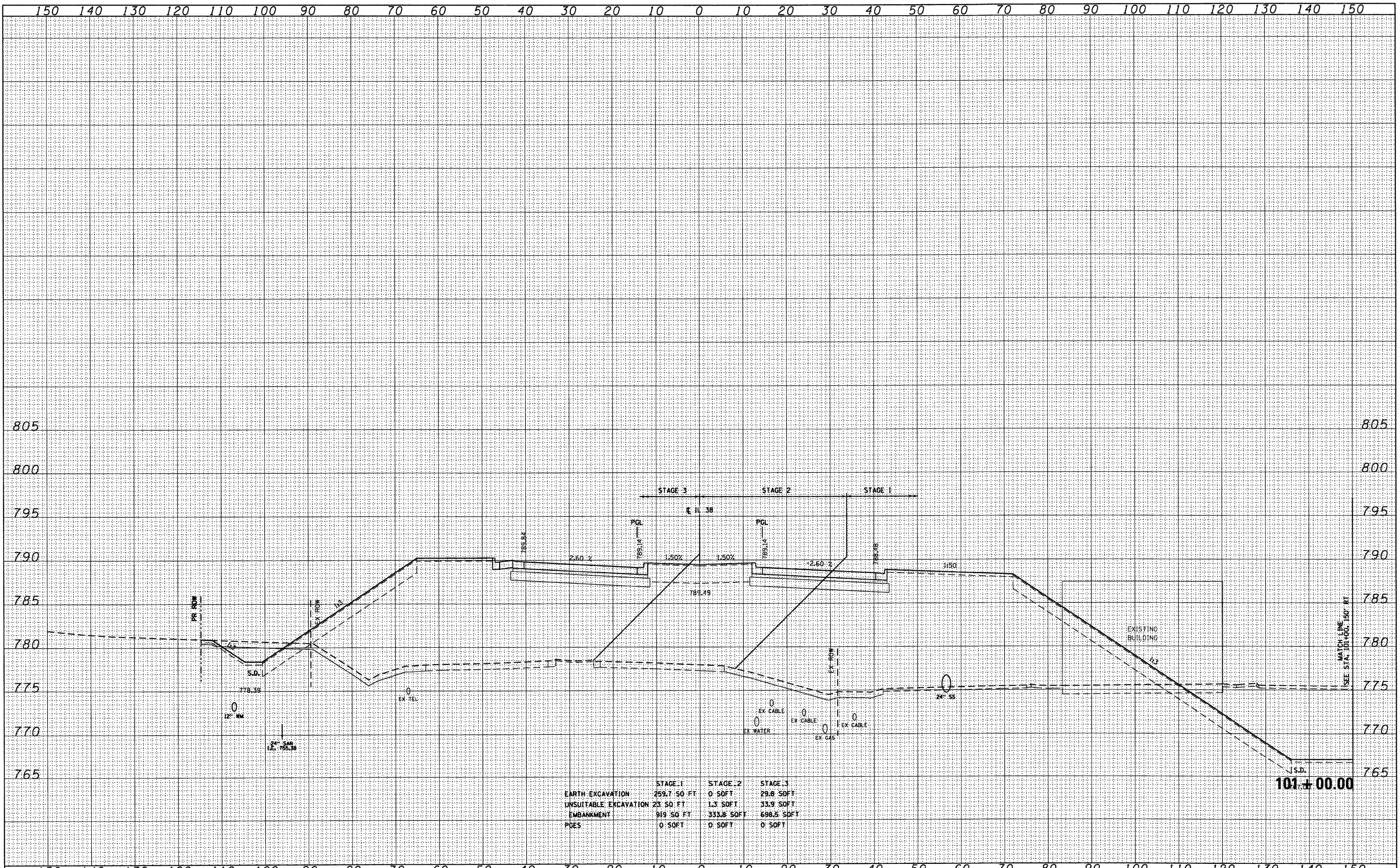
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 38 CROSS SECTIONS
SCALE: 1"=10'H; 1"=5'V SHEET NO. 27 OF 152 SHEETS STA. 100+50.00 TO STA. 100+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	XS-38-27		421	270
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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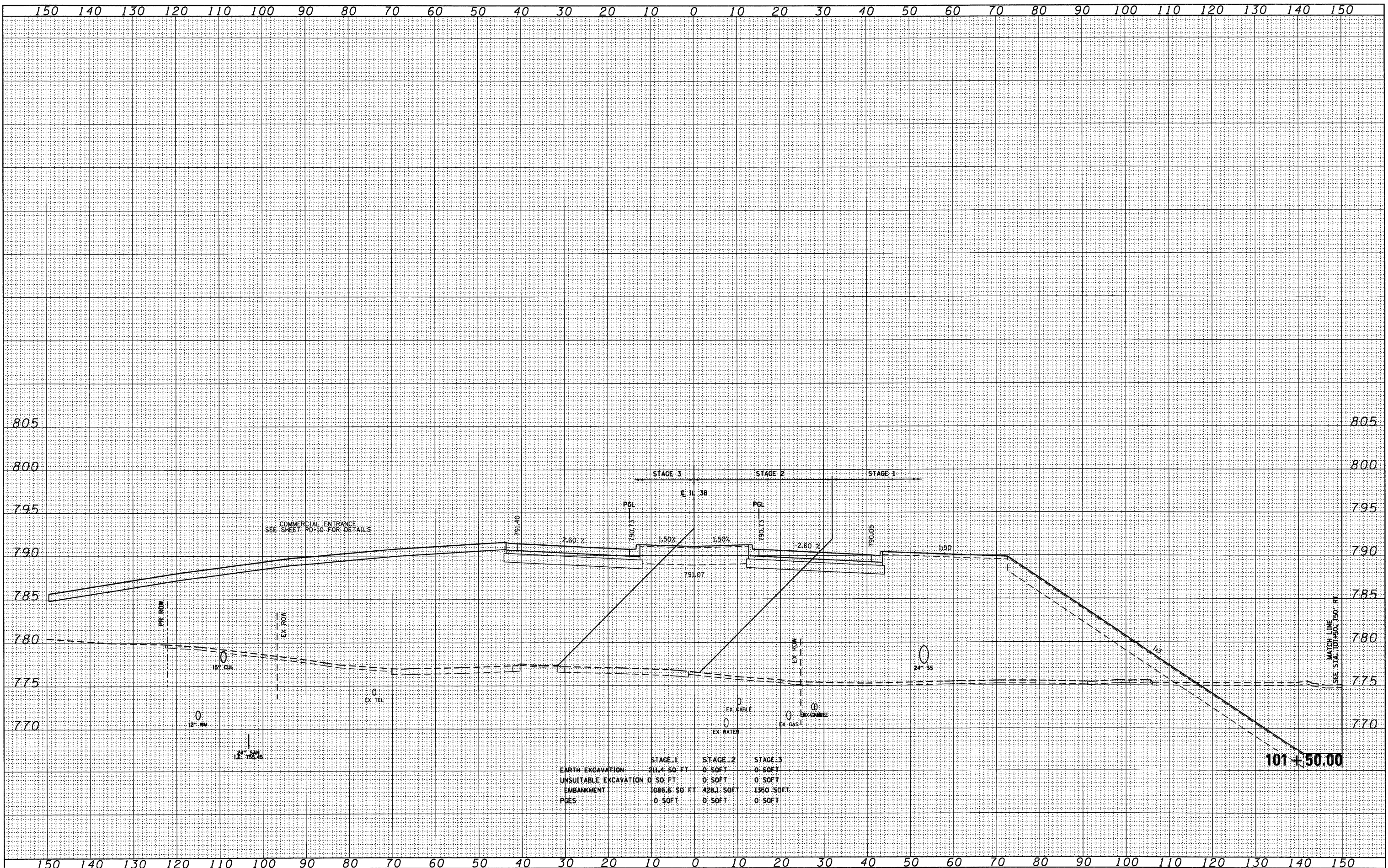
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	259.7 SQ. FT.	0 SQ. FT.	29.8 SQ. FT.
UNSUITABLE EXCAVATION	23 SQ. FT.	1.3 SQ. FT.	33.9 SQ. FT.
EMBANKMENT	819 SQ. FT.	333.8 SQ. FT.	698.5 SQ. FT.
PDES	0 SQ. FT.	0 SQ. FT.	0 SQ. FT.

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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	AREA CHECKED		
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	211.4 SO. FT.	0 SOFT	0 SOFT
UNSUITABLE EXCAVATION	0 SO. FT.	0 SOFT	0 SOFT
EMBANKMENT	1086.6 SO. FT.	428.1 SOFT	1350 SOFT
PDES	0 SOFT	0 SOFT	0 SOFT

FILE NAME = 0160122-SHT-XSSHT01.dgn
 USER NAME = YKim
 PLOT SCALE = 1:10
 PLOT DATE = 10/14/2011

DESIGNED - MJT	REVISED -
DRAWN - MJT	REVISED -
CHECKED - EJJ	REVISED -
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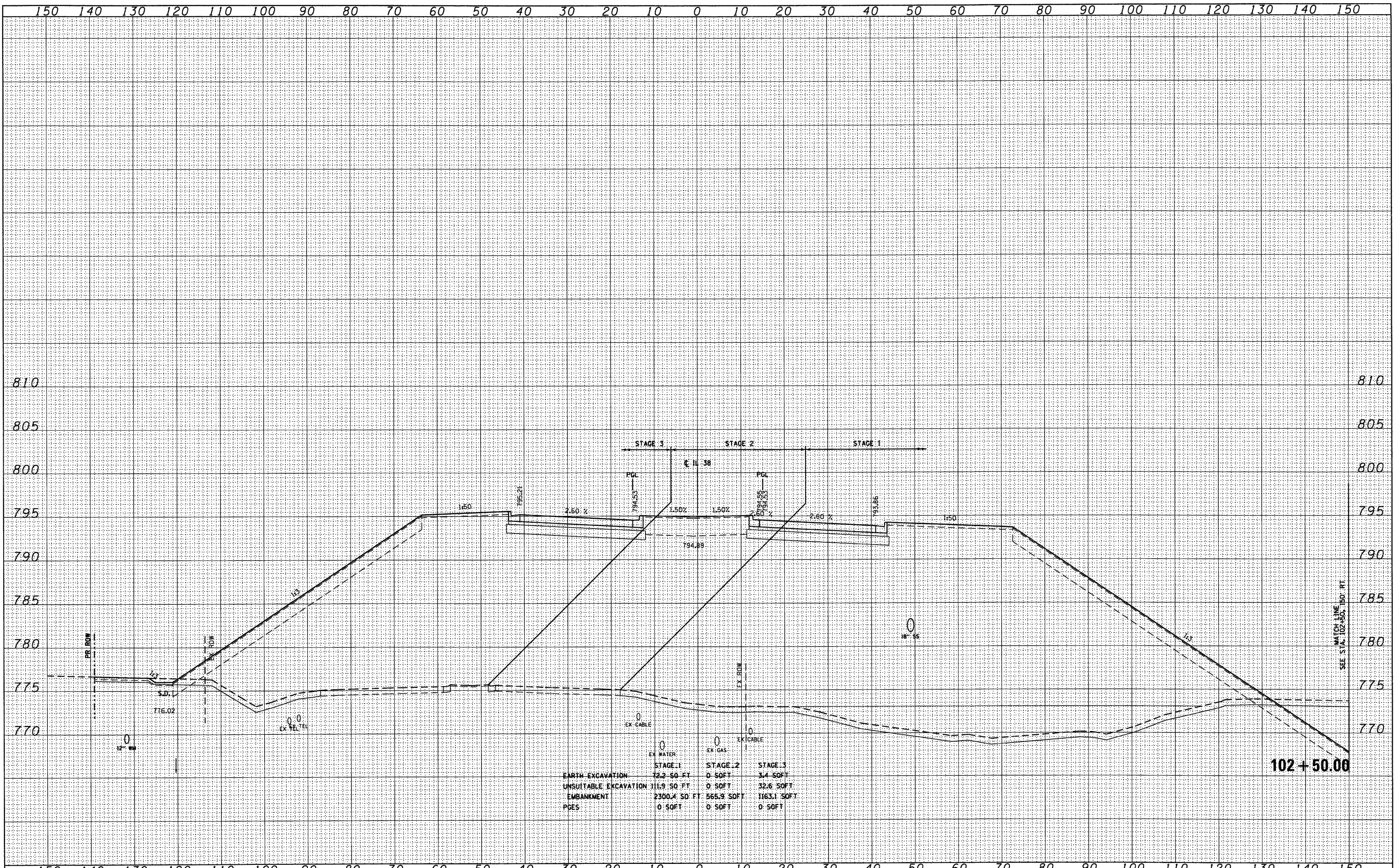
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 38 CROSS SECTIONS
 SCALE: 1"=10'H 1"=5'V SHEET NO. 29 OF 152 SHEETS STA. 101+50.00 TO STA. 101+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	XS-38-29		421	272
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	72.2 SO FT	0 SOFT	3.4 SOFT
UNSUITABLE EXCAVATION	111.9 SO FT	0 SOFT	32.6 SOFT
EMBANKMENT	2300.4 SO FT	565.9 SOFT	1163.1 SOFT
PGES	0 SOFT	0 SOFT	0 SOFT

FILE NAME = D:\60122-SHT-XSSH101.dgn

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 DRAWN - MJT
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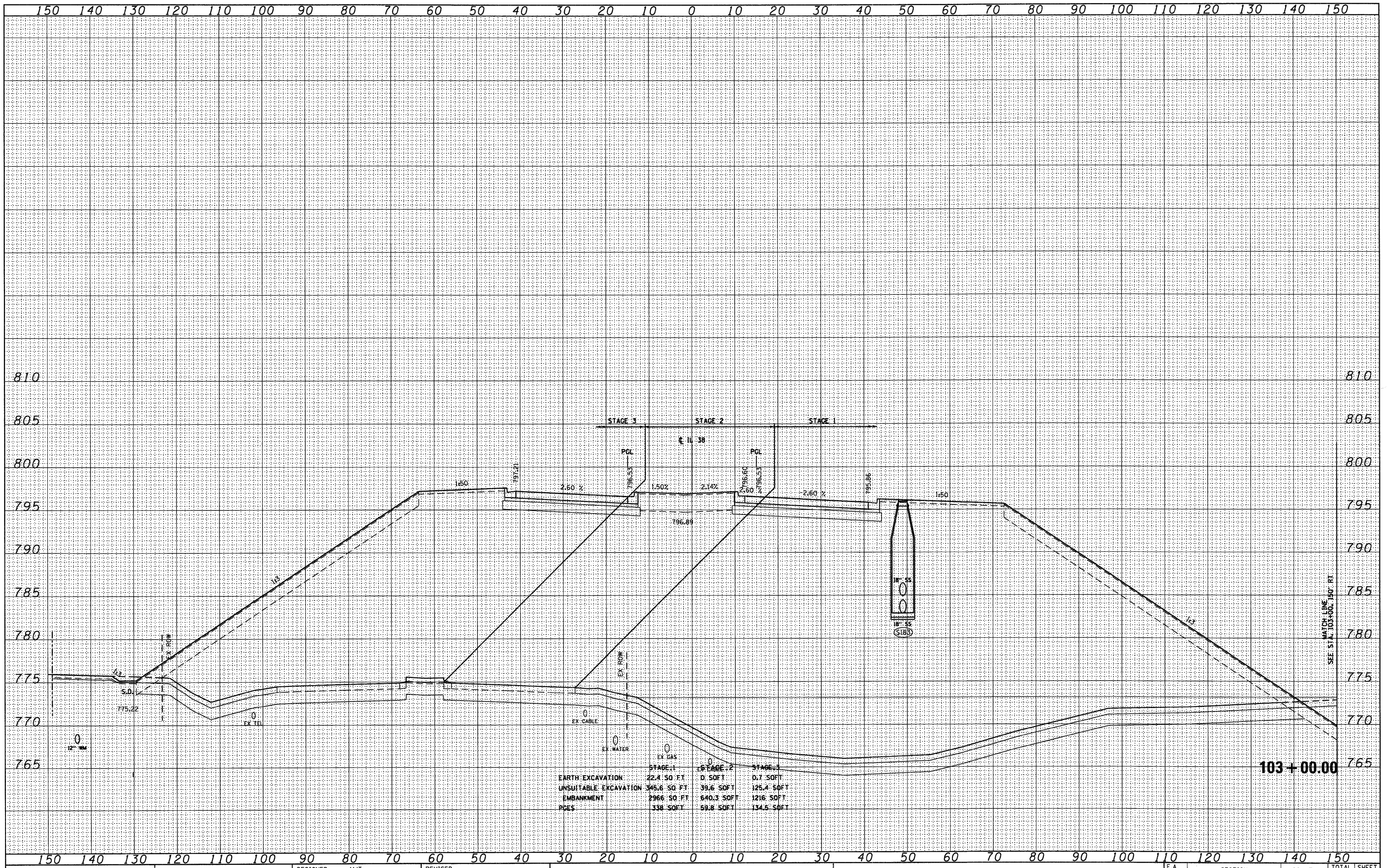
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 38 CROSS SECTIONS
 SCALE: 1"=10'H 1"=5' V SHEET NO. 31 OF 152 SHEETS STA. 102+50.00 TO STA. 102+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			421	274
XS-38-31		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

DATE	
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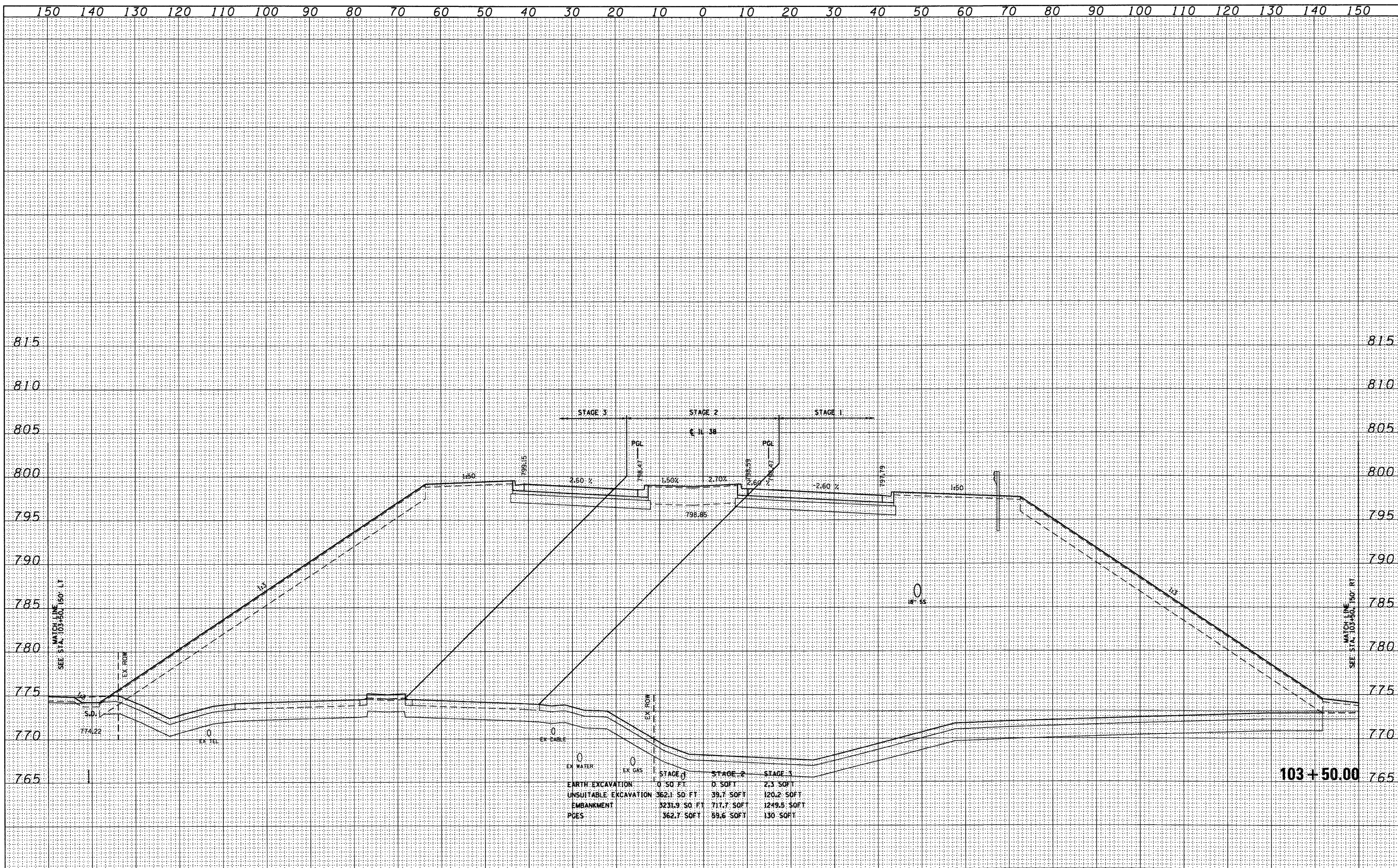
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 38 CROSS SECTIONS
 SCALE: 1"=10'H 1"=5' V SHEET NO. 32 OF 152 SHEETS STA. 103+00.00 TO STA. 103+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	XS-38-32		421	275
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	DATE
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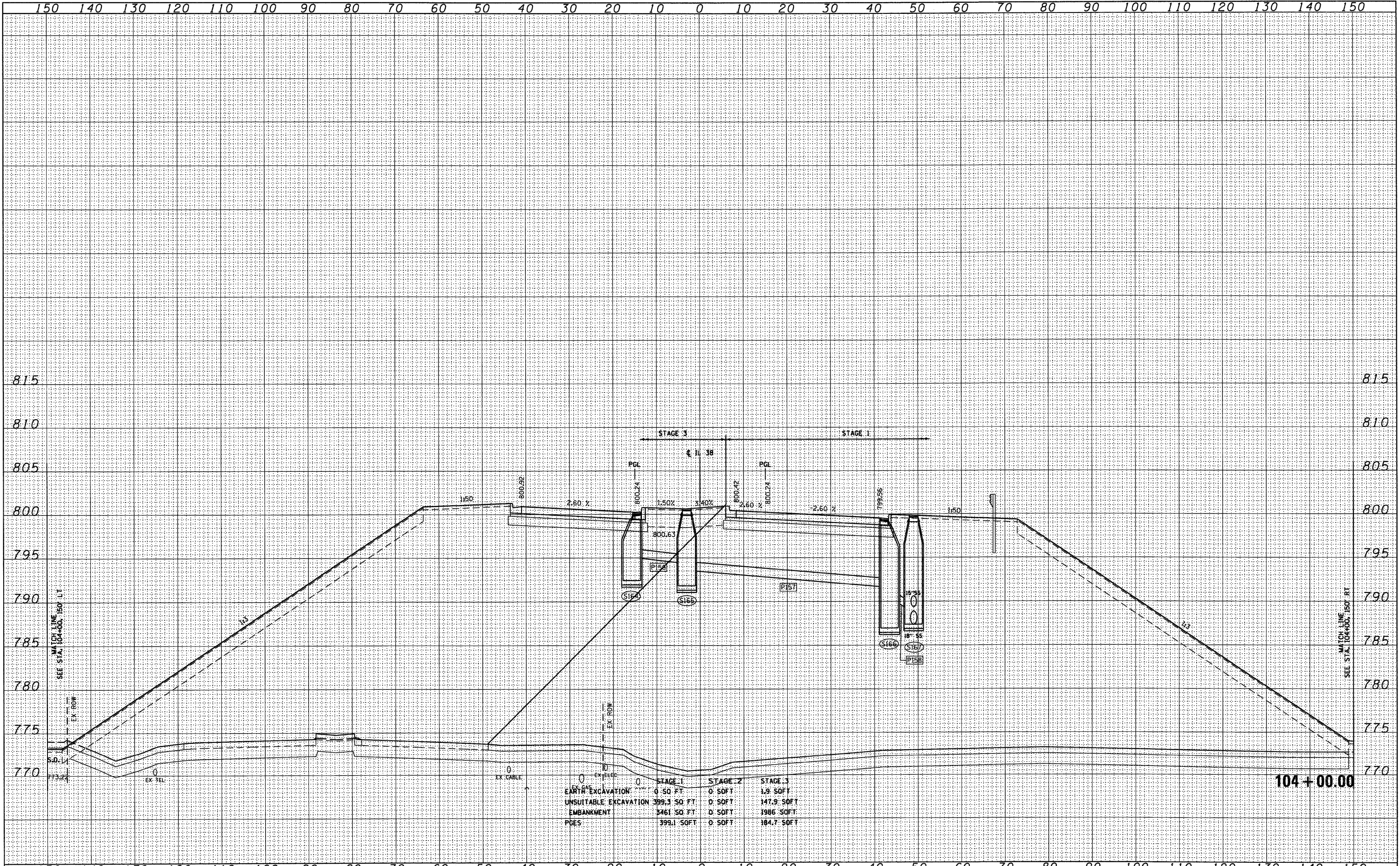


	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0 SO. FT.	0 SOFT	2.3 SOFT
UNSUITABLE EXCAVATION	362.1 SO. FT.	39.7 SOFT	120.2 SOFT
EMBANKMENT	3231.9 SO. FT.	717.7 SOFT	1249.5 SOFT
PGES	362.7 SOFT	89.6 SOFT	130 SOFT

103+50.00

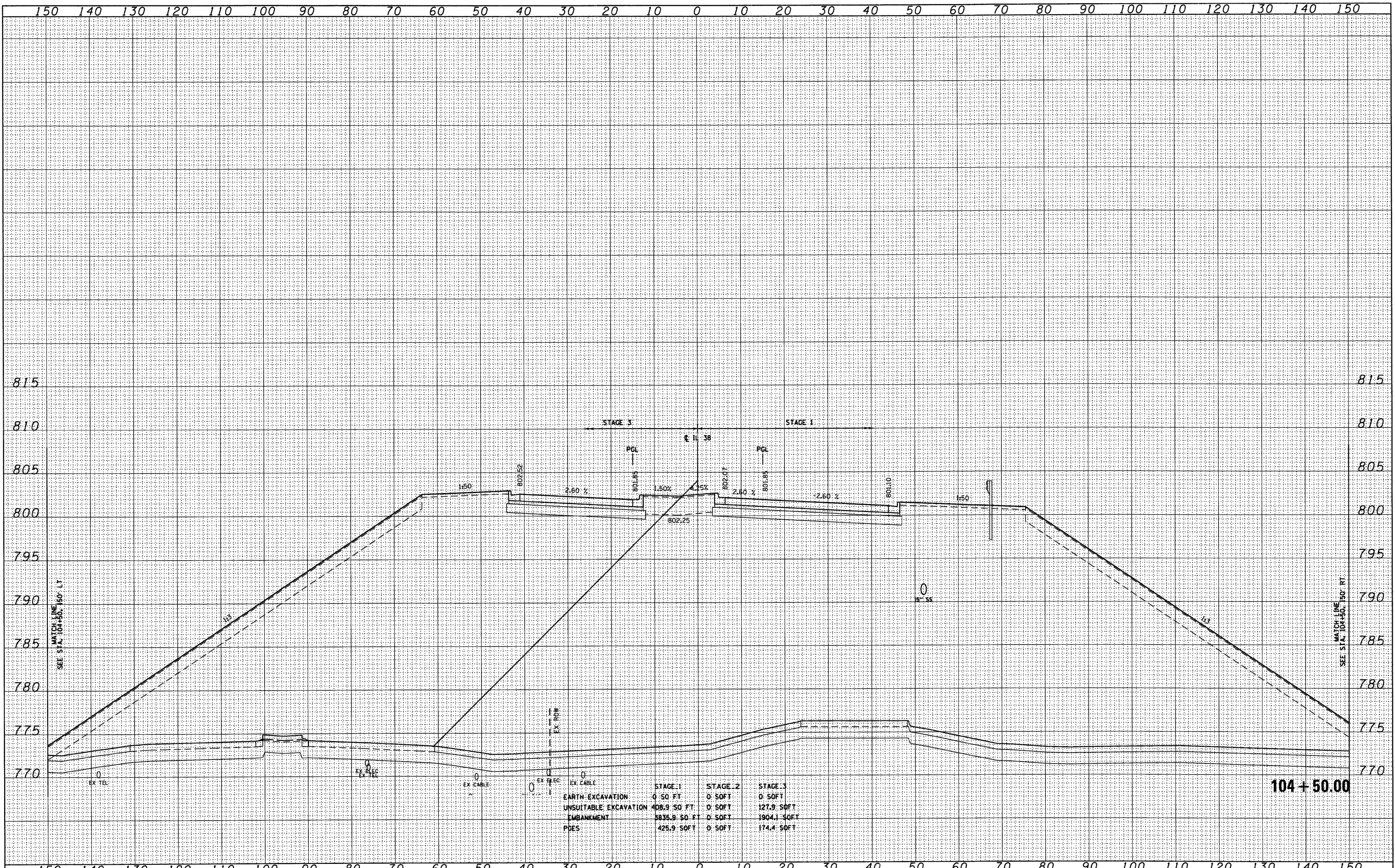
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NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



FINAL SURVEY	SURVEYED	DATE
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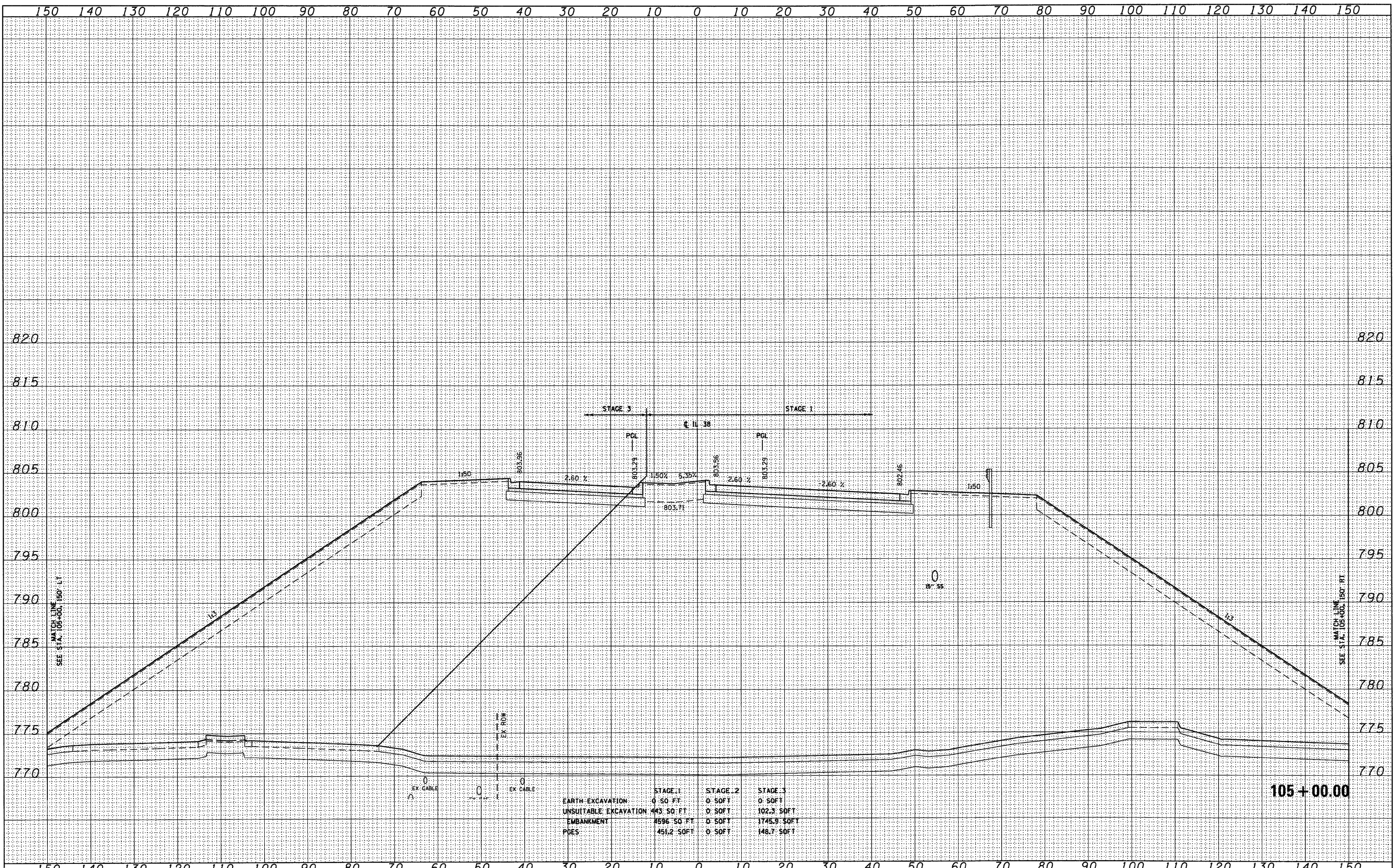


	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0.50 SOFT	0.50 FT	0.50 FT
UNSUITABLE EXCAVATION	408.9 SO FT	0.50 FT	127.9 SOFT
EMBANKMENT	5836.8 SO FT	0.50 FT	1904.1 SOFT
PDES	425.9 SOFT	0.50 FT	174.4 SOFT

104 + 50.00

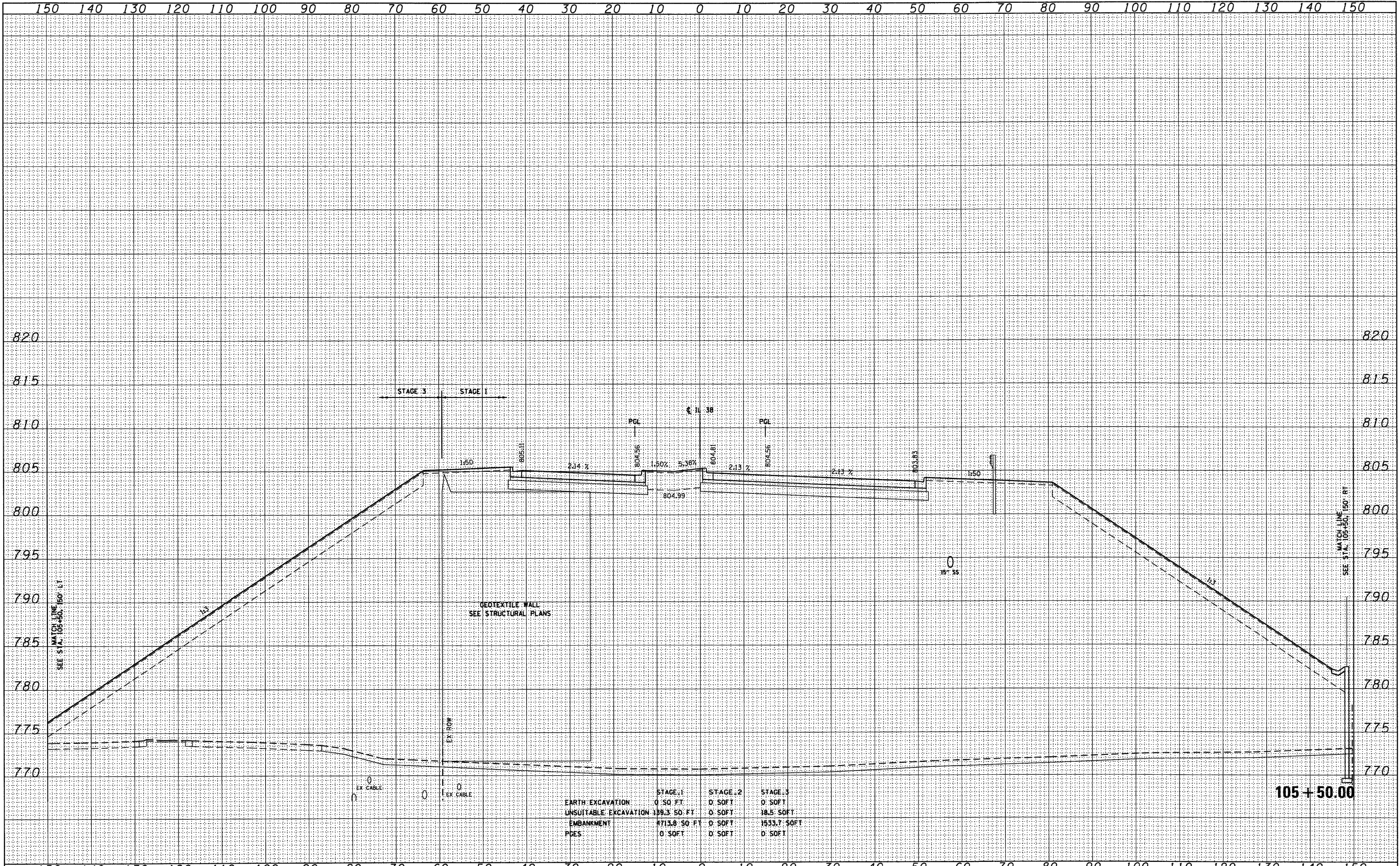
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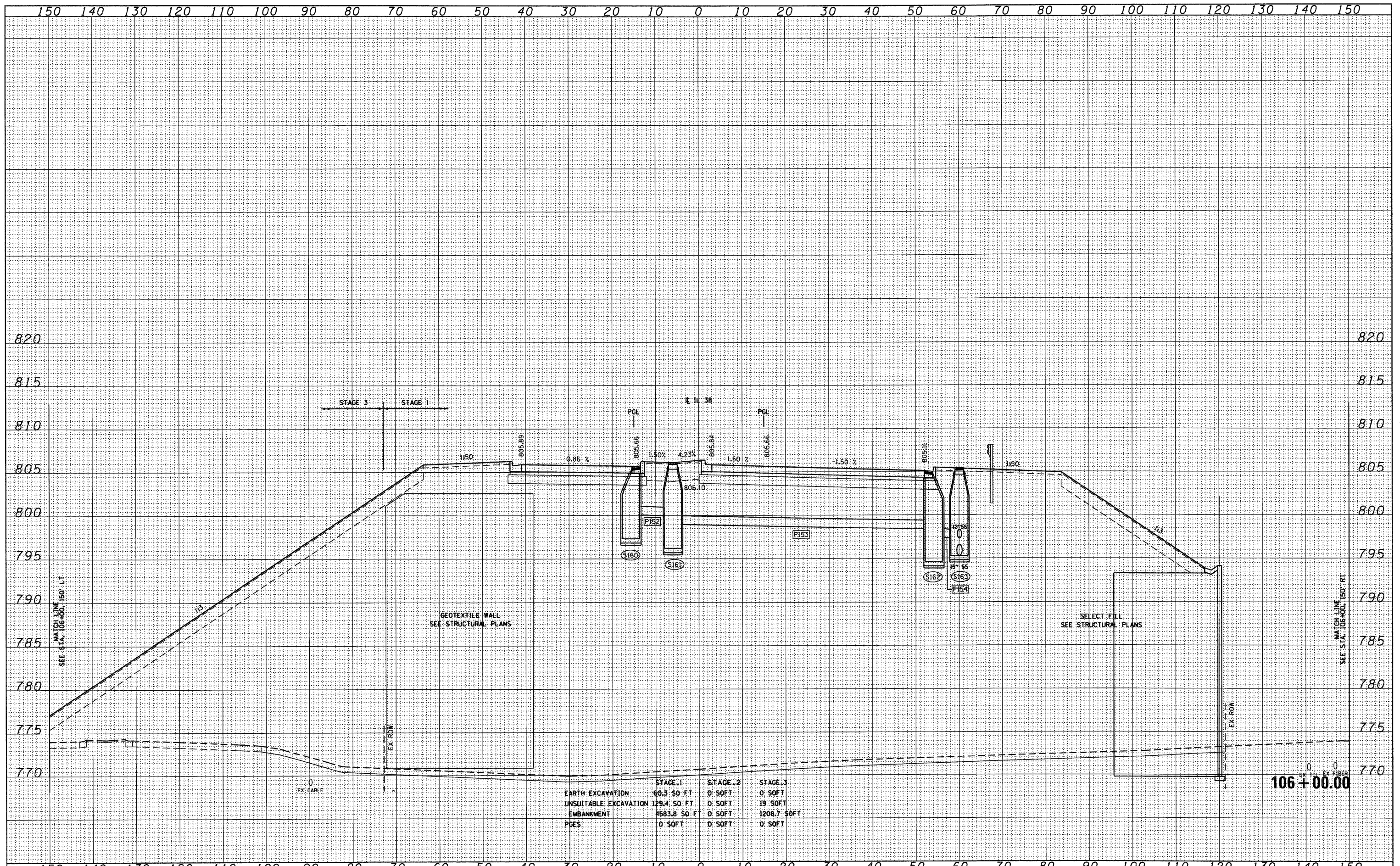
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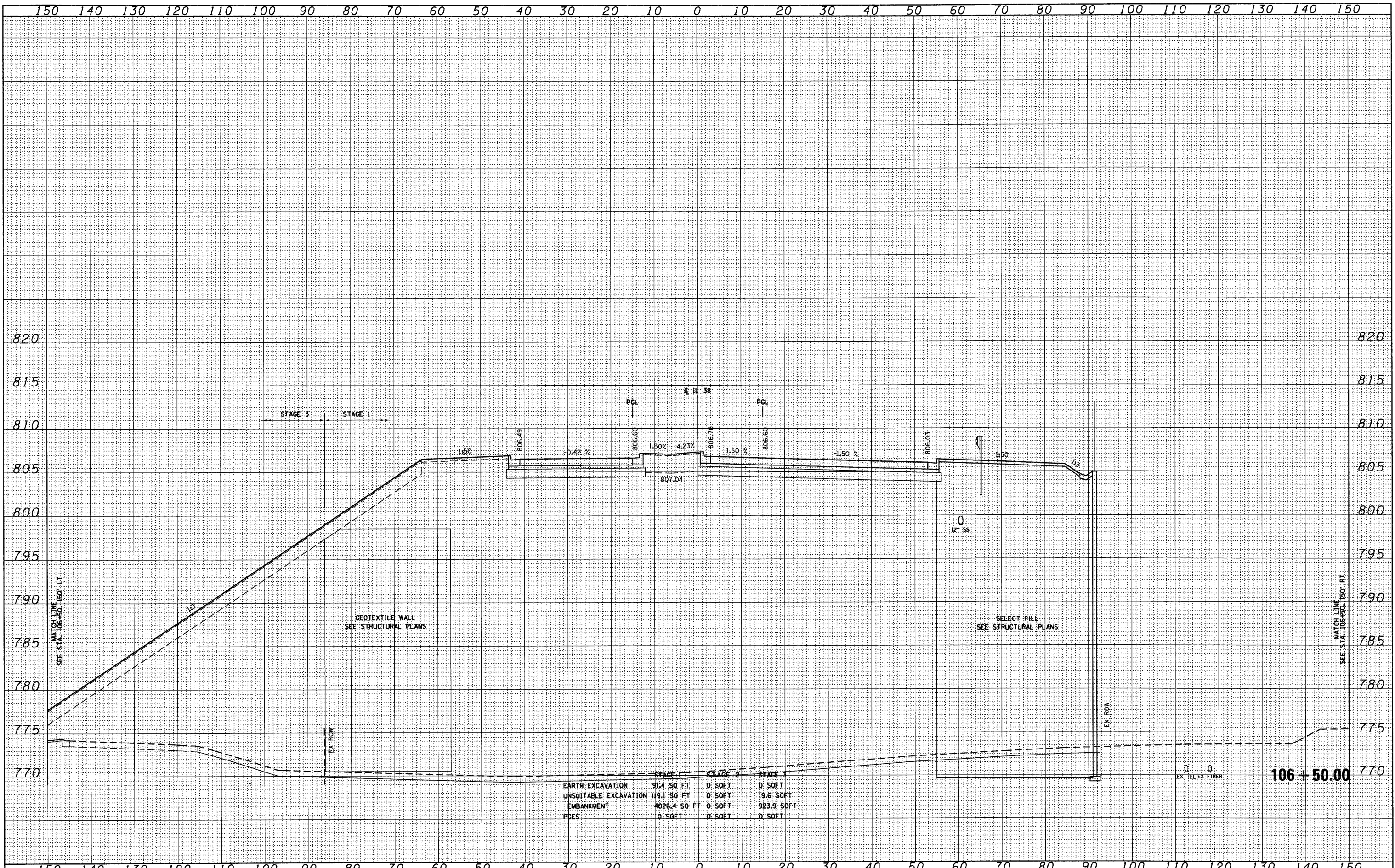
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FINAL SURVEY	SURVEYED	BY	DATE
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	AREAS		
	CHECKED		



	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	91.4 SO FT	0 SOFT	0 SOFT
UNSATURABLE EXCAVATION	19.1 SO FT	0 SOFT	19.6 SOFT
EMBANKMENT	4026.4 SO FT	0 SOFT	923.9 SOFT
PDES	0 SOFT	0 SOFT	0 SOFT

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 DRAWN - MJT
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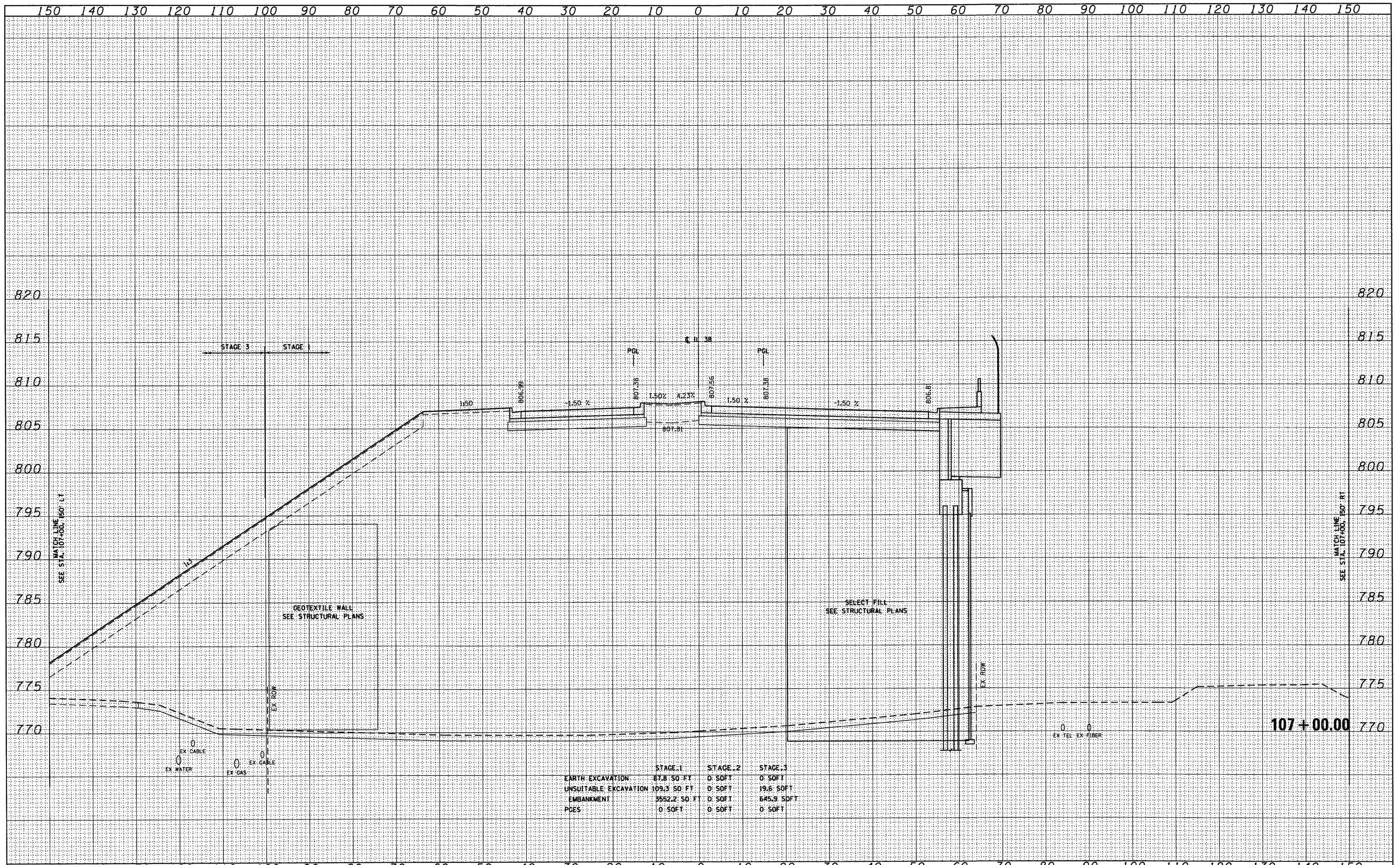
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL ROUTE 38 CROSS SECTIONS
 SCALE: 1"=10'H; 1"=5'V SHEET NO. 39 OF 152 SHEETS STA. 106+50.00 TO STA. 106+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			421	282
XS-38-39			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

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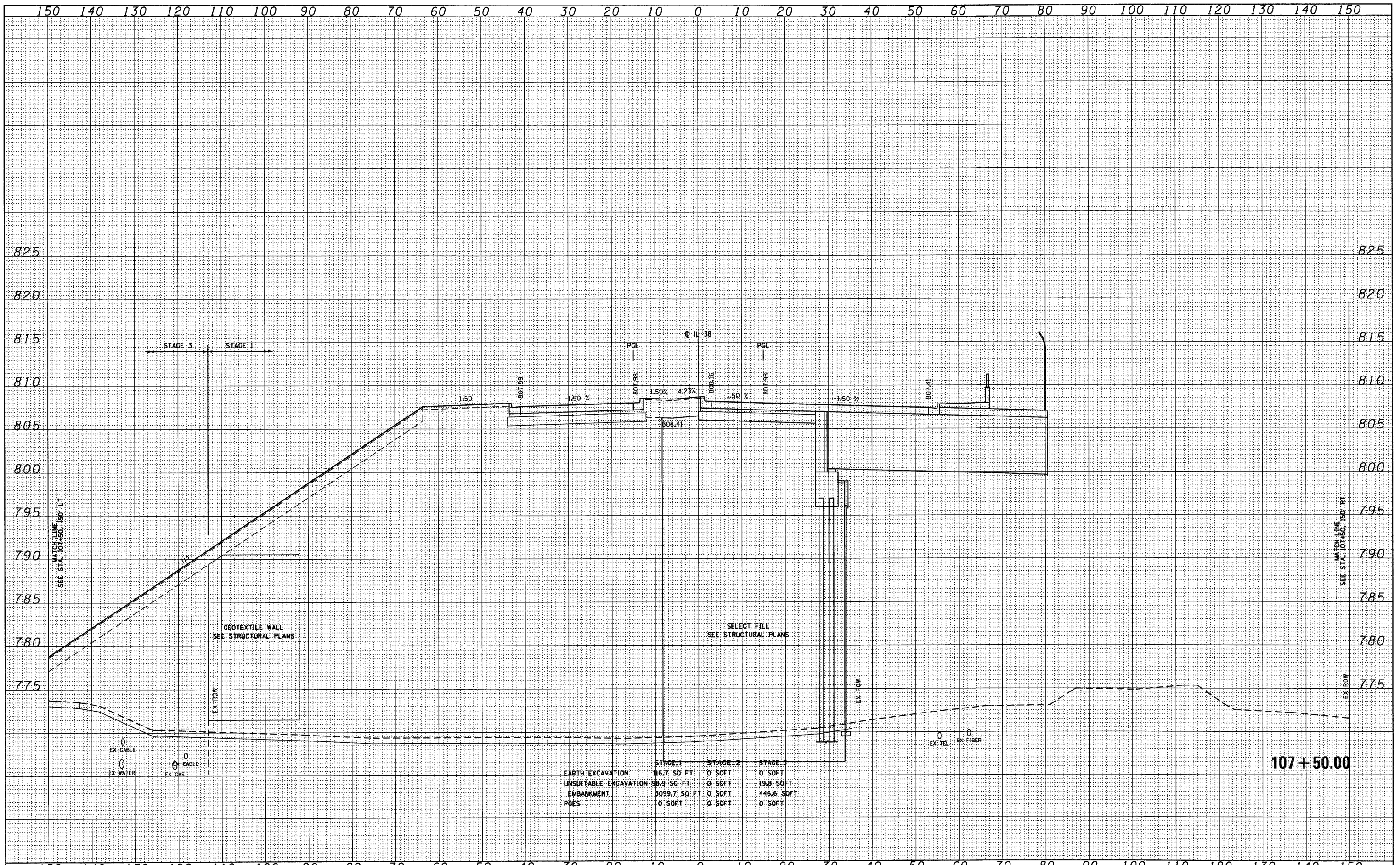
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	87.8 SO. FT.	0 SOFT	0 SOFT
UNSUITABLE EXCAVATION	109.3 SO. FT.	0 SOFT	19.6 SOFT
EMBANKMENT	3552.2 SO. FT.	0 SOFT	645.9 SOFT
PGES	0 SOFT	0 SOFT	0 SOFT

DATE	
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NOTE BOOK	
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ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	



	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	116.750 FT	0' SOFT	0' SOFT
UNSUITABLE EXCAVATION	98.950 FT	0' SOFT	19.8' SOFT
EMBANKMENT	5099.750 FT	0' SOFT	446.6' SOFT
PGES	0' SOFT	0' SOFT	0' SOFT

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 DESIGNED - MJT
 DRAWN - MJT
 CHECKED - EJJ
 DATE - 10/14/2011

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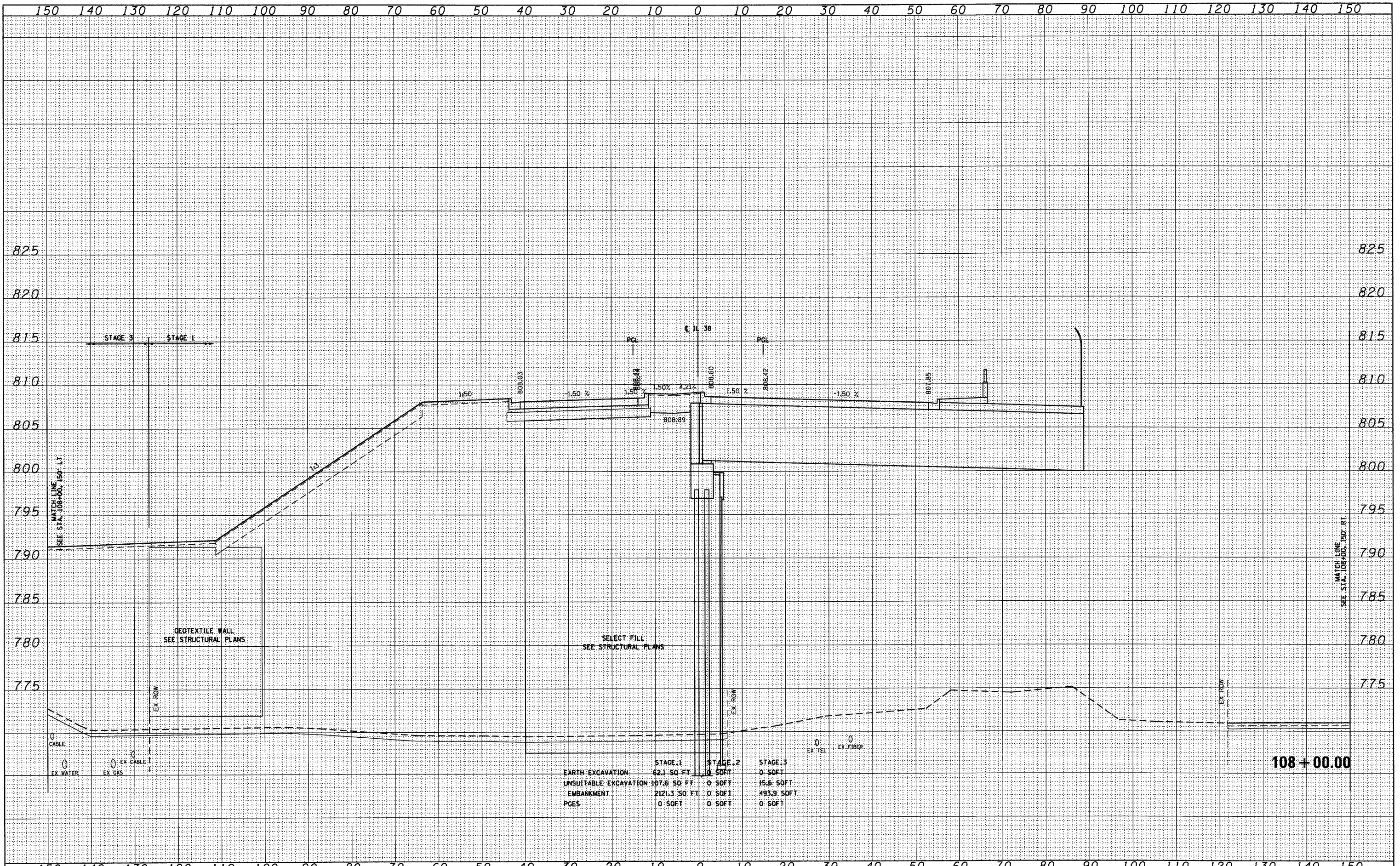
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL ROUTE 38 CROSS SECTIONS
 SCALE: 1"=10'H 1/4"=5' V SHEET NO. 41 OF 152 SHEETS STA. 107+50.00 TO STA. 107+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	XS-38-41		421	284
		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

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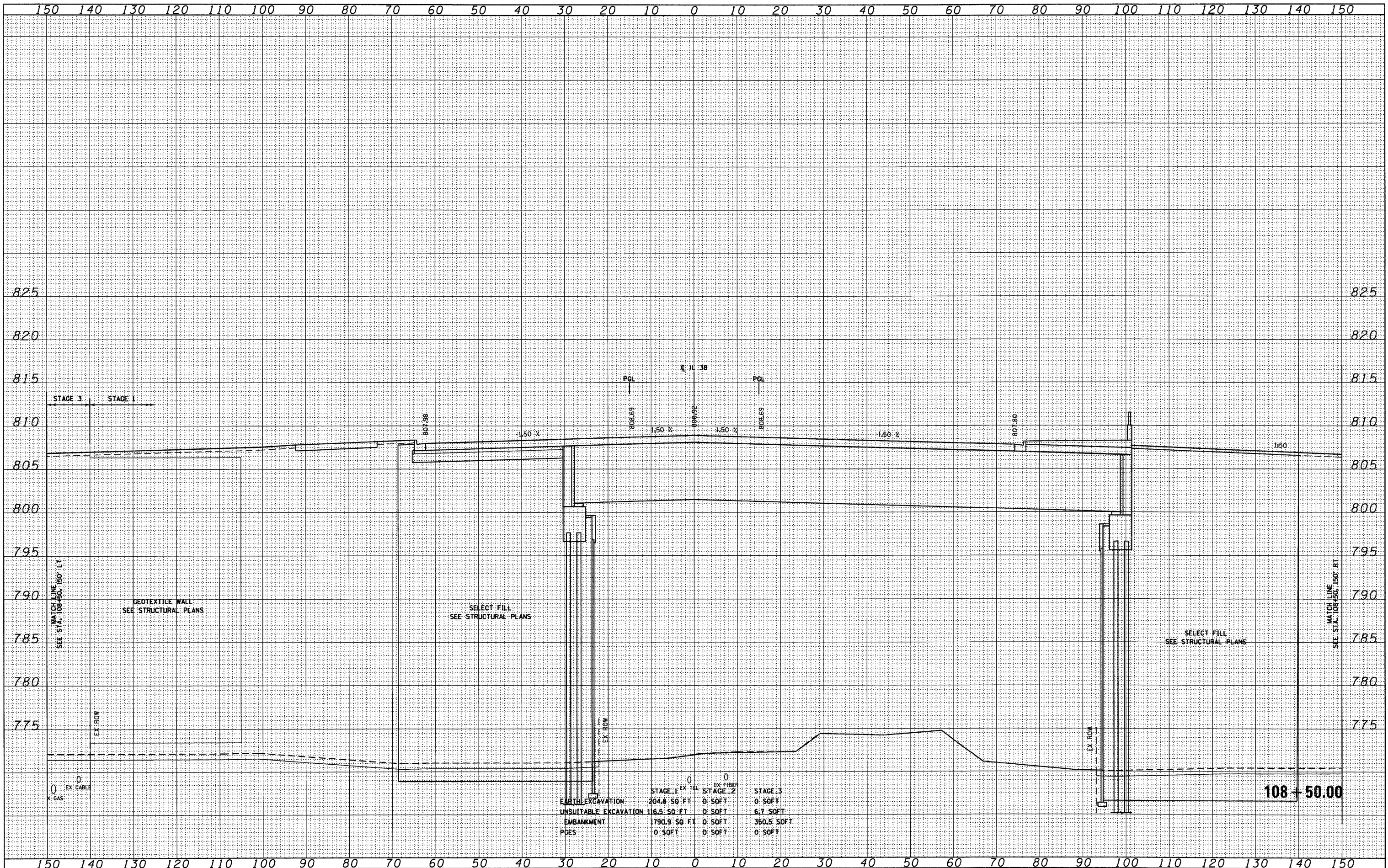
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NOTE BOOK	
AREAS CHECKED	
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	42.1 SQ FT	0 SQ FT	0 SQ FT
UNSUITABLE EXCAVATION	107.6 SQ FT	0 SQ FT	15.6 SQ FT
EMBANKMENT	2121.3 SQ FT	0 SQ FT	493.9 SQ FT
PCES	0 SQ FT	0 SQ FT	0 SQ FT

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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	264.8 SQ FT	0 SQ FT	0 SQ FT
UNSUITABLE EXCAVATION	116.5 SQ FT	0 SQ FT	6.7 SQ FT
EMBANKMENT	1790.9 SQ FT	0 SQ FT	350.5 SQ FT
POB	0 SQ FT	0 SQ FT	0 SQ FT

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

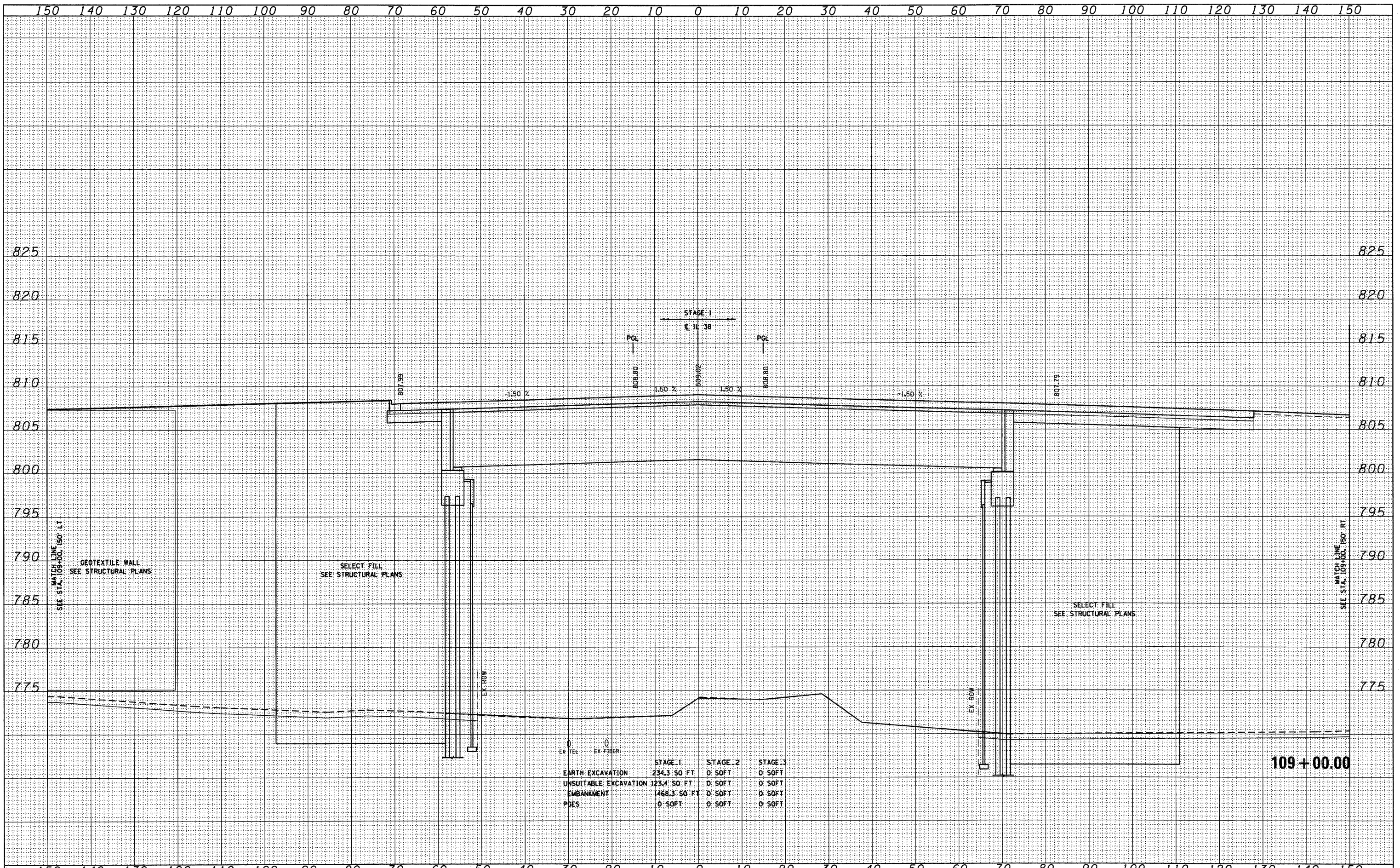
IL ROUTE 38 CROSS SECTIONS

SCALE: 1"=10'H 1"=5'V SHEET NO. 43 OF 152 SHEETS STA. 108+50.00 TO STA. 108+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	XS-38-43		421	286
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

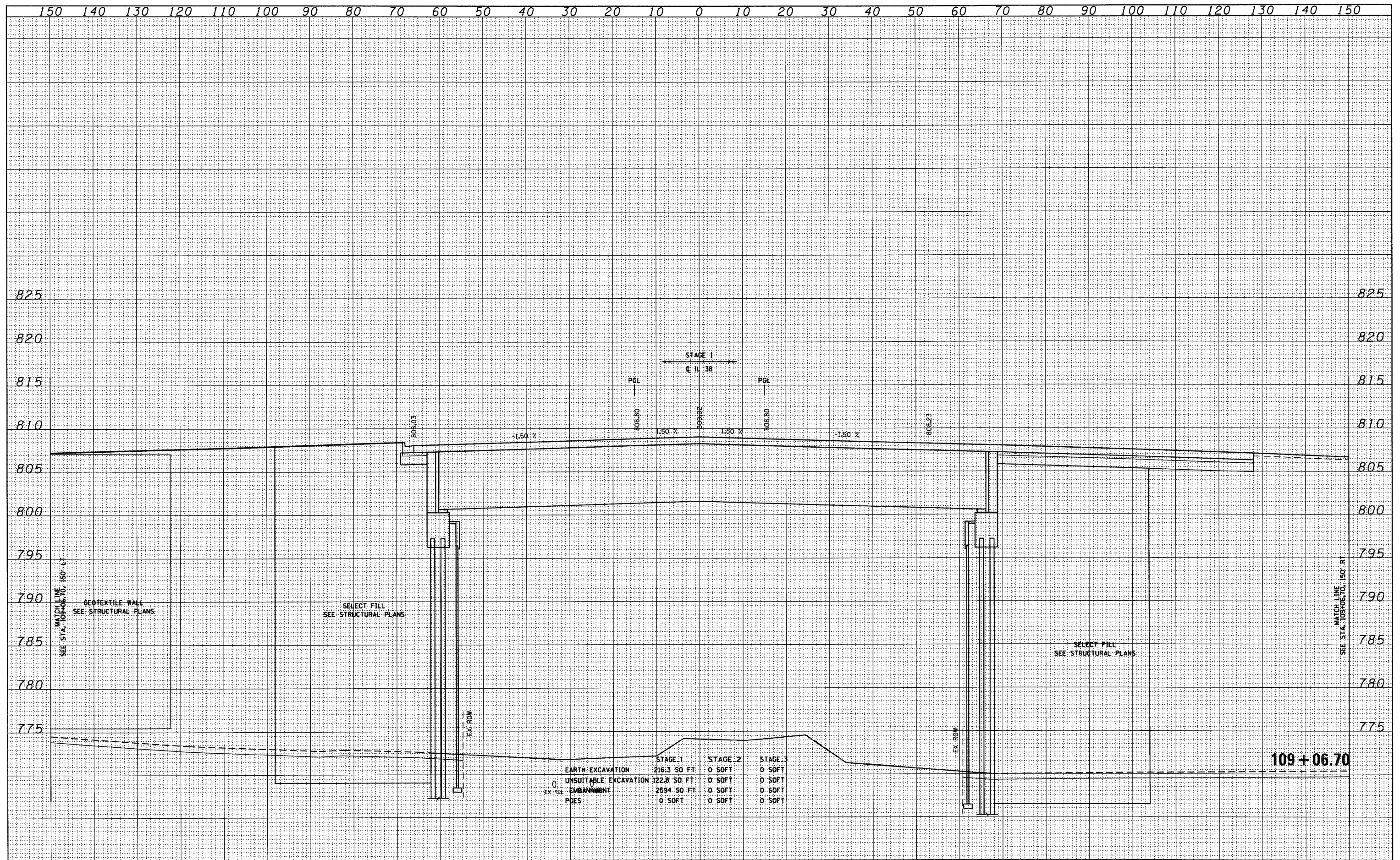
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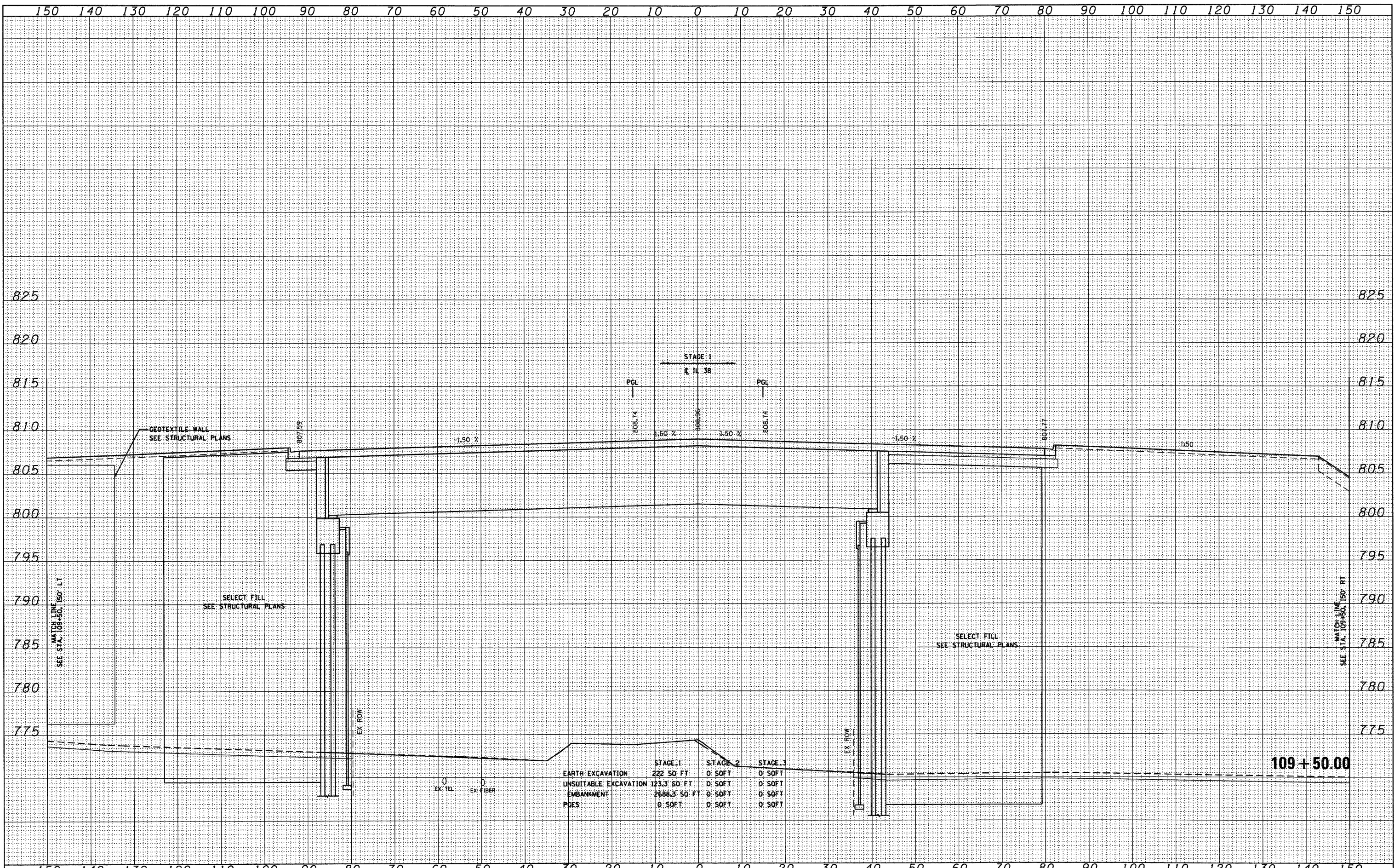
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	222 SQ. FT.	0 SQ. FT.	0 SQ. FT.
UNSUITABLE EXCAVATION	123.3 SQ. FT.	0 SQ. FT.	0 SQ. FT.
EMBANKMENT	2688.3 SQ. FT.	0 SQ. FT.	0 SQ. FT.
PGES	0 SQ. FT.	0 SQ. FT.	0 SQ. FT.

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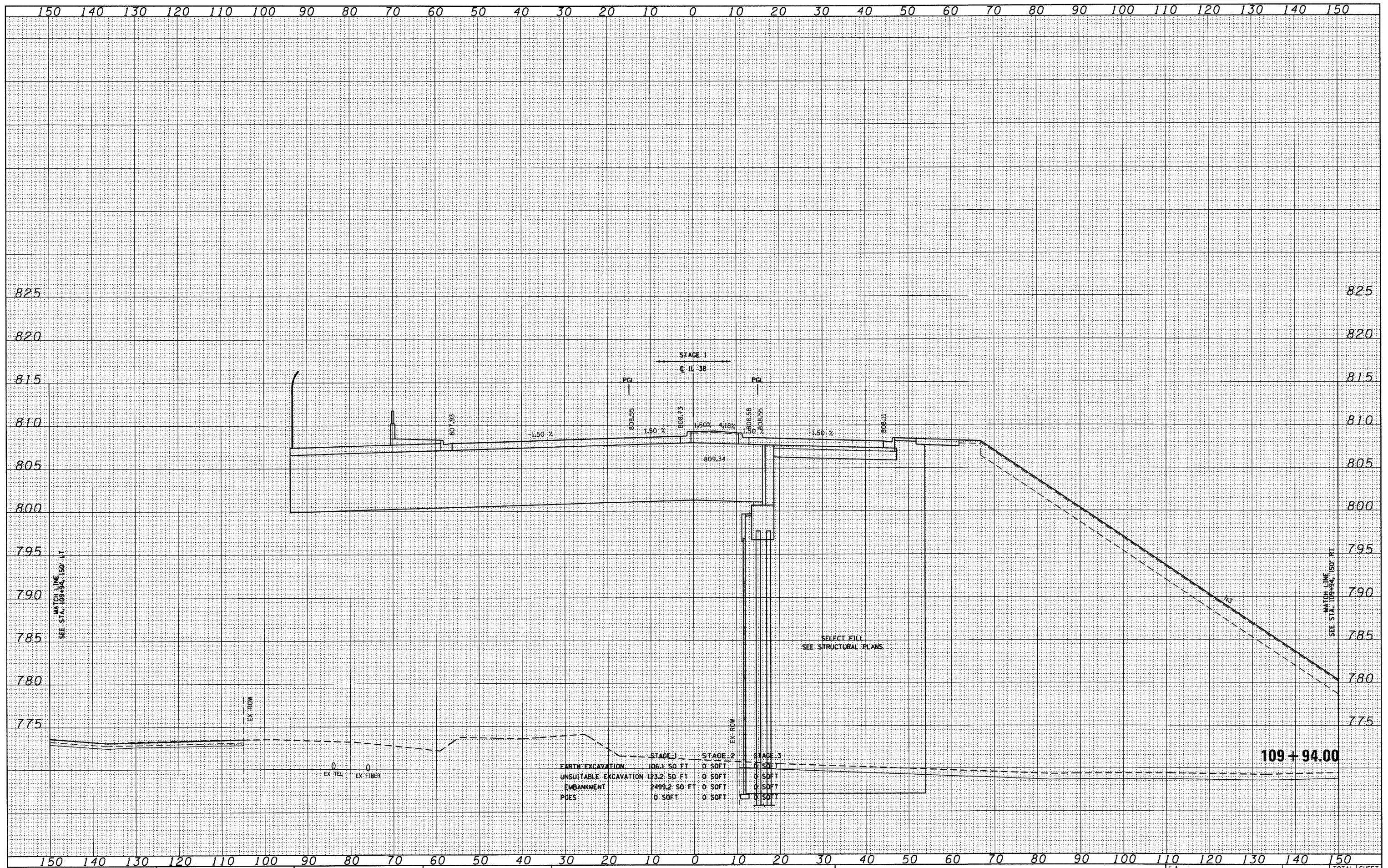
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL ROUTE 38 CROSS SECTIONS
 SCALE: 1"=10'H 1"=5' V SHEET NO. 46 OF 152 SHEETS STA. 109+50.00 TO STA. 109+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	XS-38-46		421	289
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

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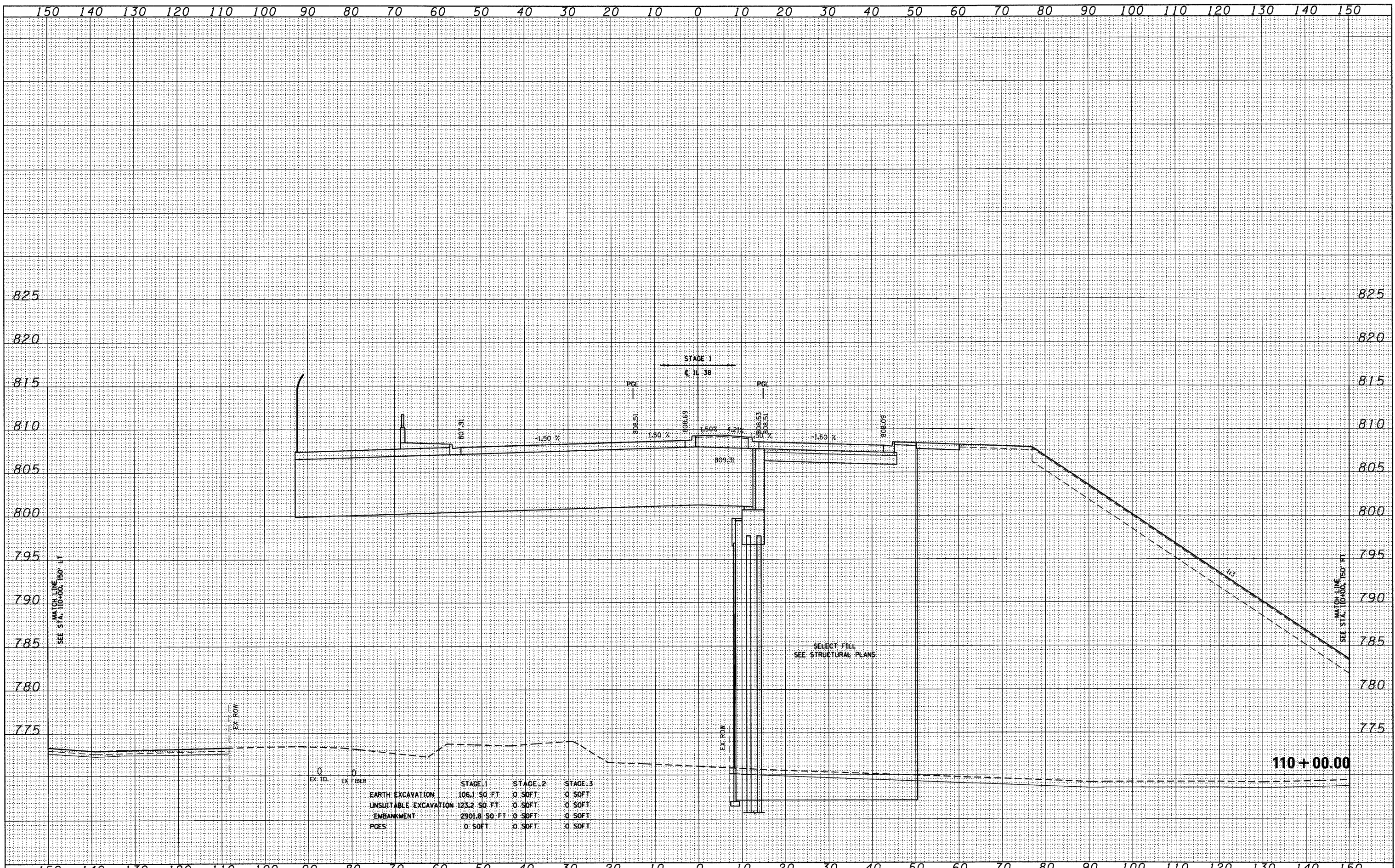
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL ROUTE 38 CROSS SECTIONS
 SCALE: 1"=10'H=1"=5'V SHEET NO. 47 OF 152 SHEETS STA. 109+94.00 TO STA. 109+94.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			421	290
XS-38-47		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

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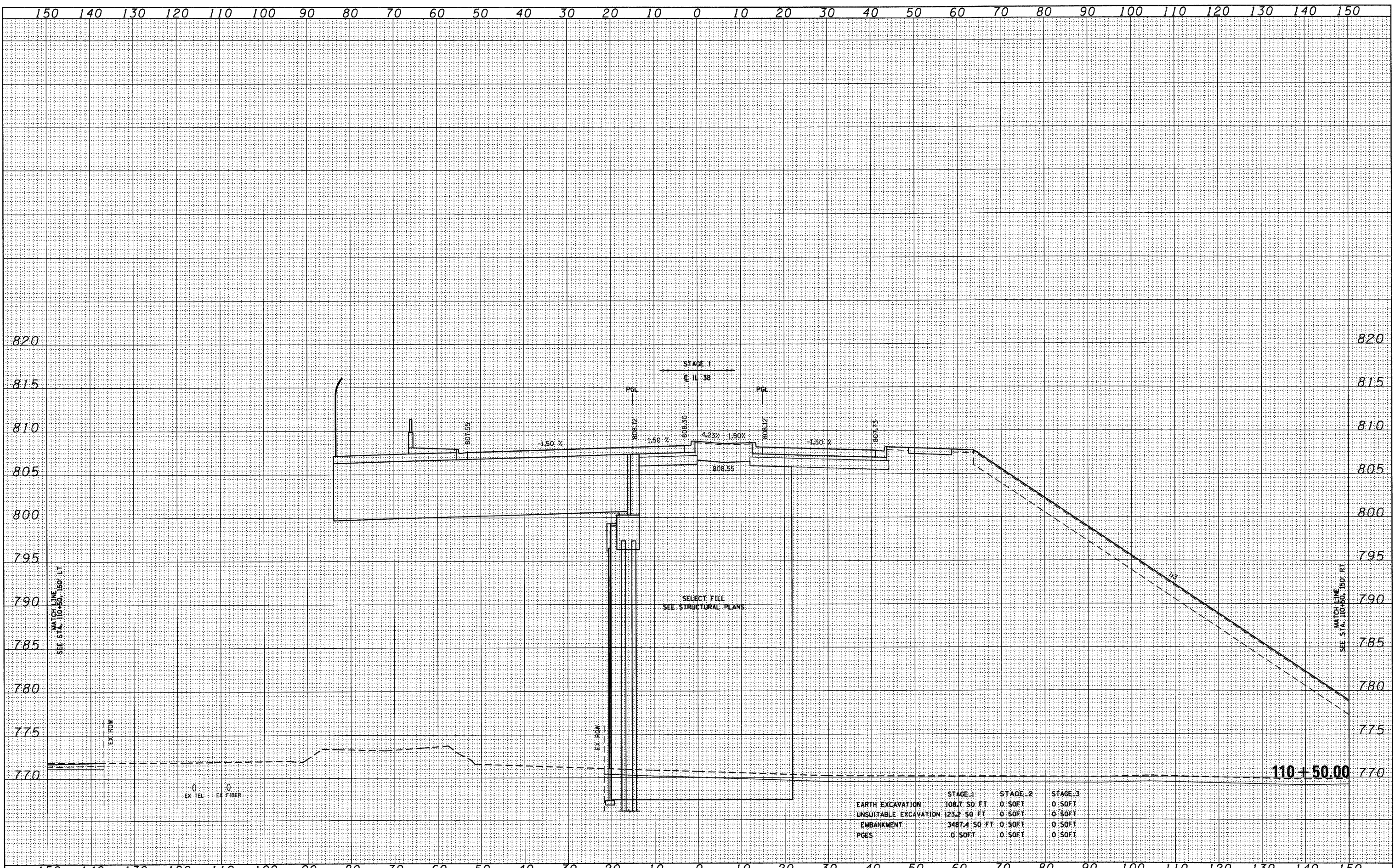
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	106.1 50 FT	0 SOFT	0 SOFT
UNSATURABLE EXCAVATION	123.2 50 FT	0 SOFT	0 SOFT
EMBANKMENT	2901.8 50 FT	0 SOFT	0 SOFT
PGES	0 SOFT	0 SOFT	0 SOFT

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NOTE BOOK	PLOTTED
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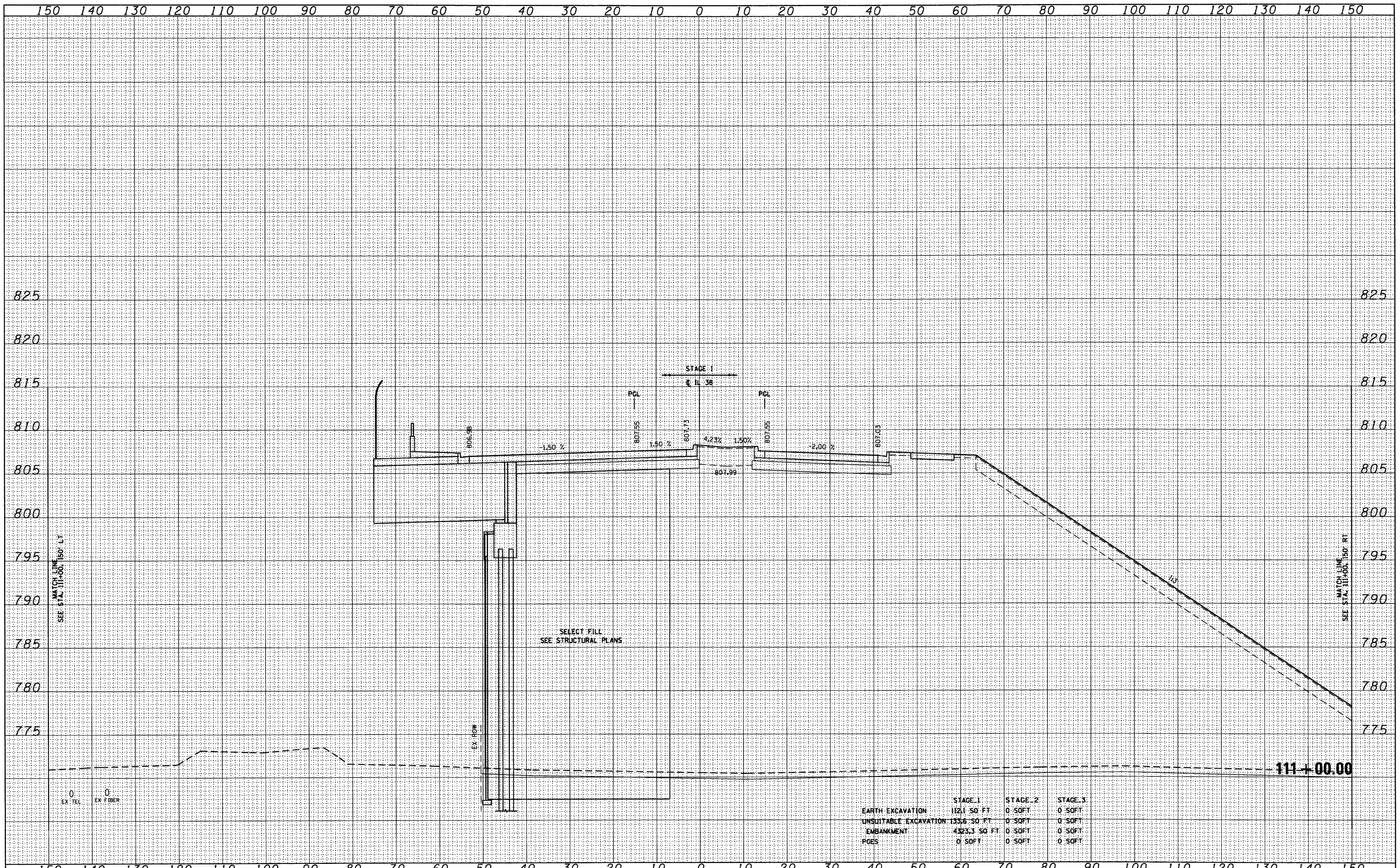
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NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



	STAGE_1	STAGE_2	STAGE_3
EARTH EXCAVATION	108.7 SO. FT.	0 SOFT	0 SOFT
UNSUITABLE EXCAVATION	123.2 SO. FT.	0 SOFT	0 SOFT
EMBANKMENT	3487.4 SO. FT.	0 SOFT	0 SOFT
PGES	0 SOFT	0 SOFT	0 SOFT

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NOTE BOOK	
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	112.1 SQ FT	0 SQFT	0 SQFT
UNSUITABLE EXCAVATION	135.6 SQ FT	0 SQFT	0 SQFT
EMBANKMENT	4325.3 SQ FT	0 SQFT	0 SQFT
ROES	0 SQFT	0 SQFT	0 SQFT

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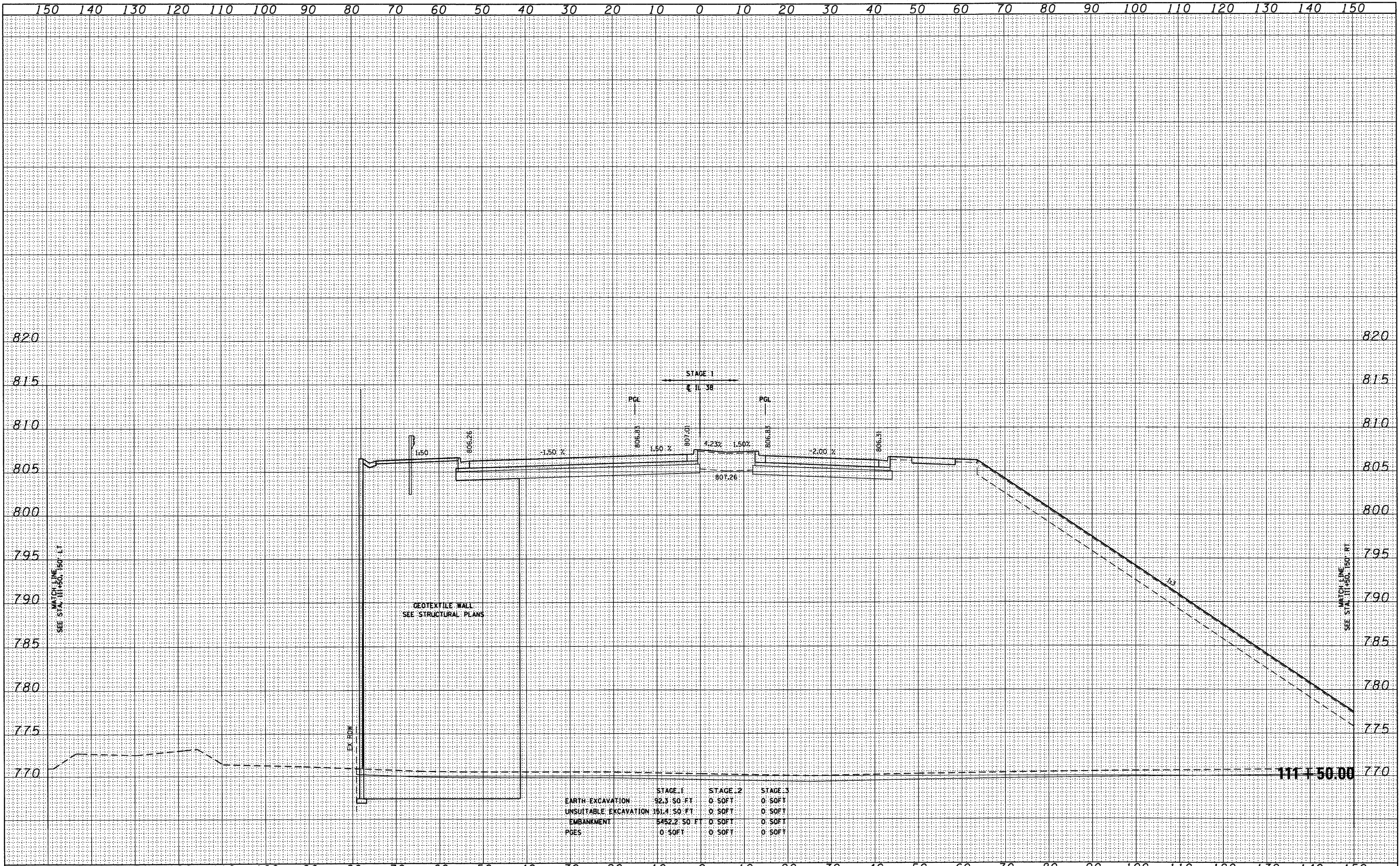
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 38 CROSS SECTIONS
 SCALE: 1"=10'H; 1"=5'V SHEET NO. 50 OF 152 SHEETS
 STA. 111+00.00 TO STA. 111+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	XS-38-50		421	293
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

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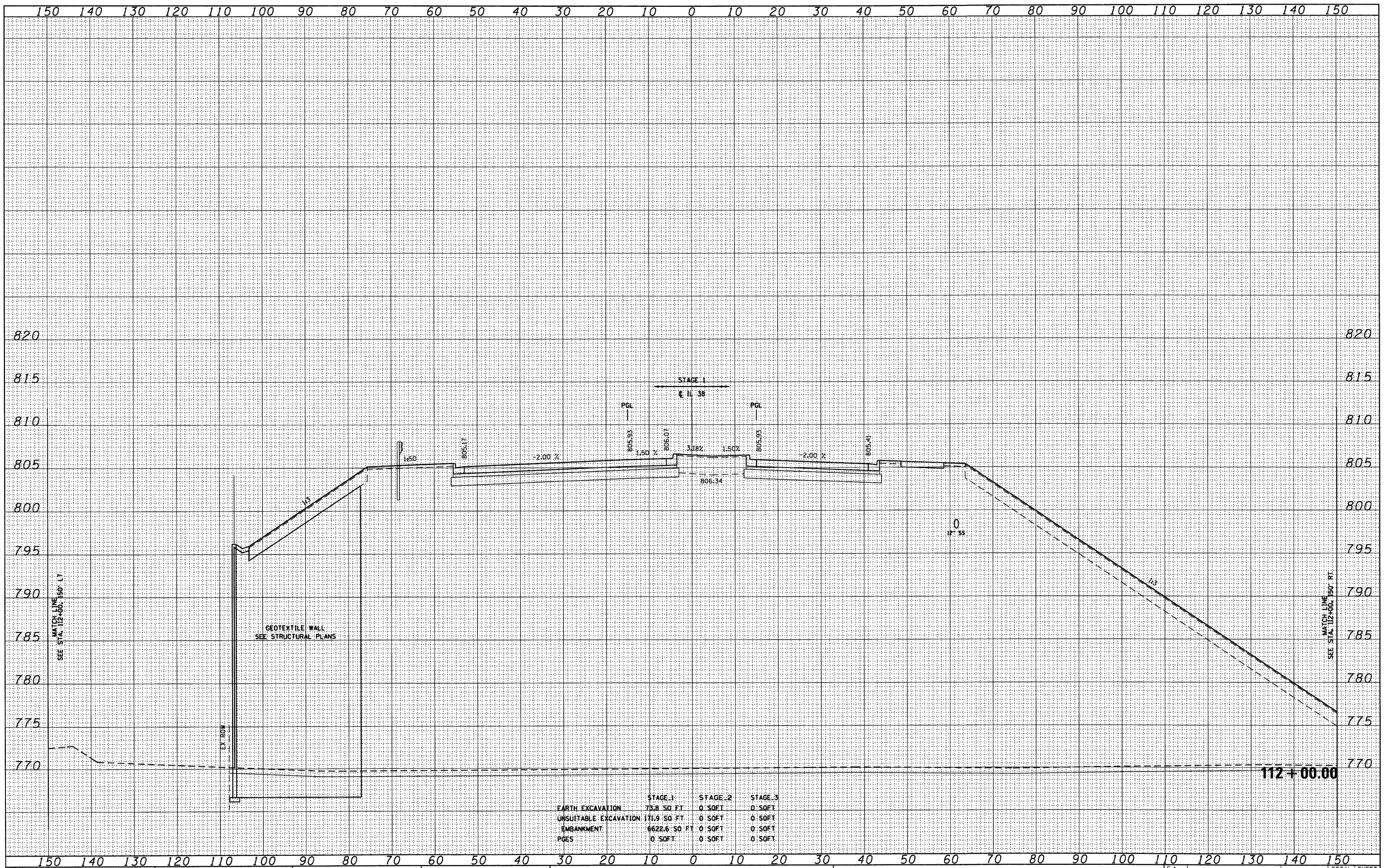
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	92.3 SO FT	0 SOFT	0 SOFT
UNSUITABLE EXCAVATION	151.4 SO FT	0 SOFT	0 SOFT
EMBANKMENT	5452.2 SO FT	0 SOFT	0 SOFT
PGES	0 SOFT	0 SOFT	0 SOFT

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	DATE	
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	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	75.8 SQ FT	0 SQ FT	0 SQ FT
UNSUITABLE EXCAVATION	171.9 SQ FT	0 SQ FT	0 SQ FT
EMBANKMENT	6622.6 SQ FT	0 SQ FT	0 SQ FT
POES	0 SQ FT	0 SQ FT	0 SQ FT

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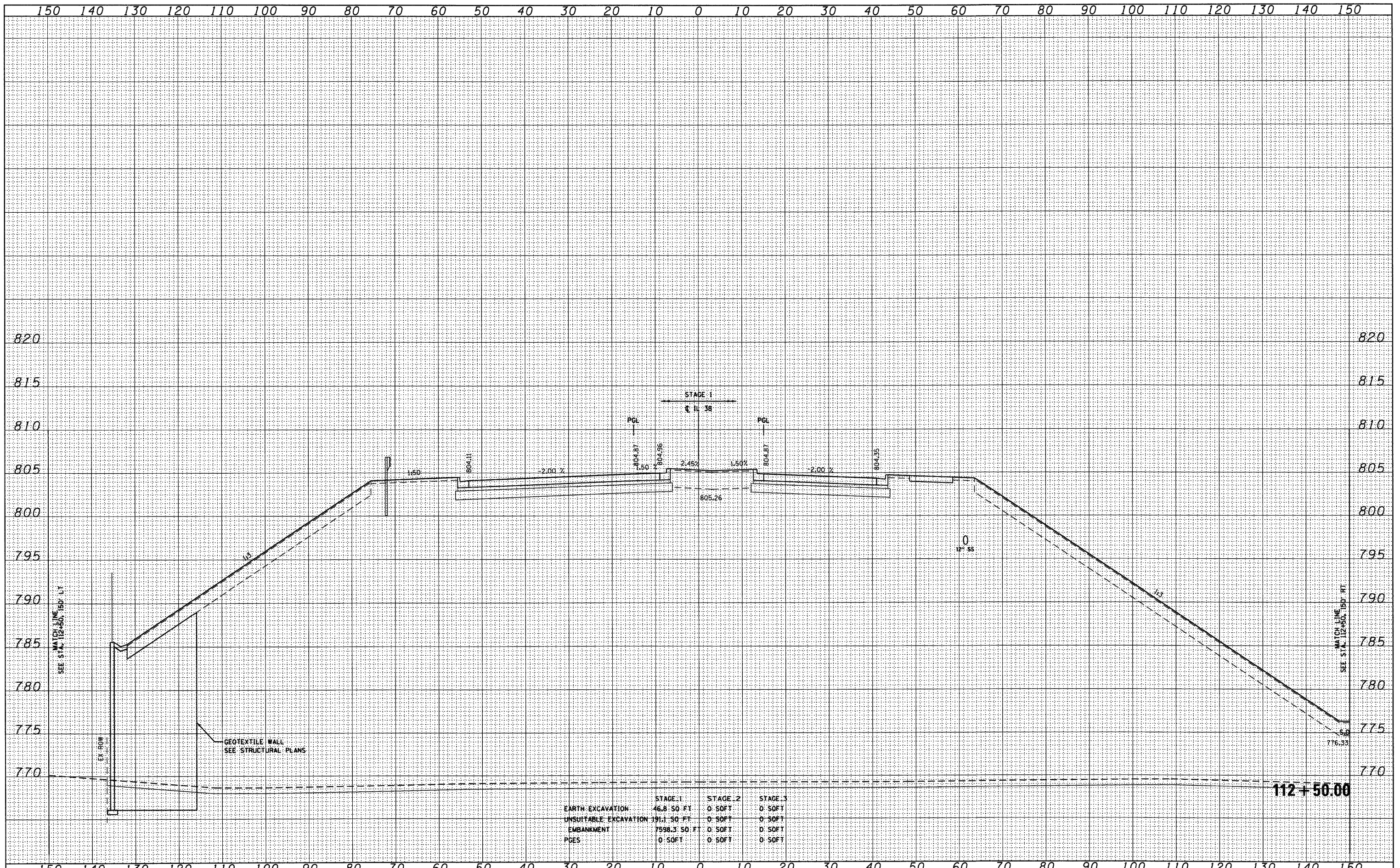
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 DEPARTMENT OF TRANSPORTATION**

IL ROUTE 38 CROSS SECTIONS
 SCALE: 1"=10'H 1/4"=5' V SHEET NO. 52 OF 152 SHEETS STA. 112+00.00 TO STA. 112+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			421	295
XS-38-52			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

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

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



	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	46.8 SQ FT	0 SQ FT	0 SQ FT
UNSUITABLE EXCAVATION	191.1 SQ FT	0 SQ FT	0 SQ FT
EMBANKMENT	7598.3 SQ FT	0 SQ FT	0 SQ FT
PCES	0 SQ FT	0 SQ FT	0 SQ FT

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 USER NAME = YK1m
 PLOT SCALE = 1:10
 PLOT DATE = 10/14/2011

DESIGNED - MJT	REVISED -
DRAWN - MJT	REVISED -
CHECKED - EJC	REVISED -
DATE -	REVISED -

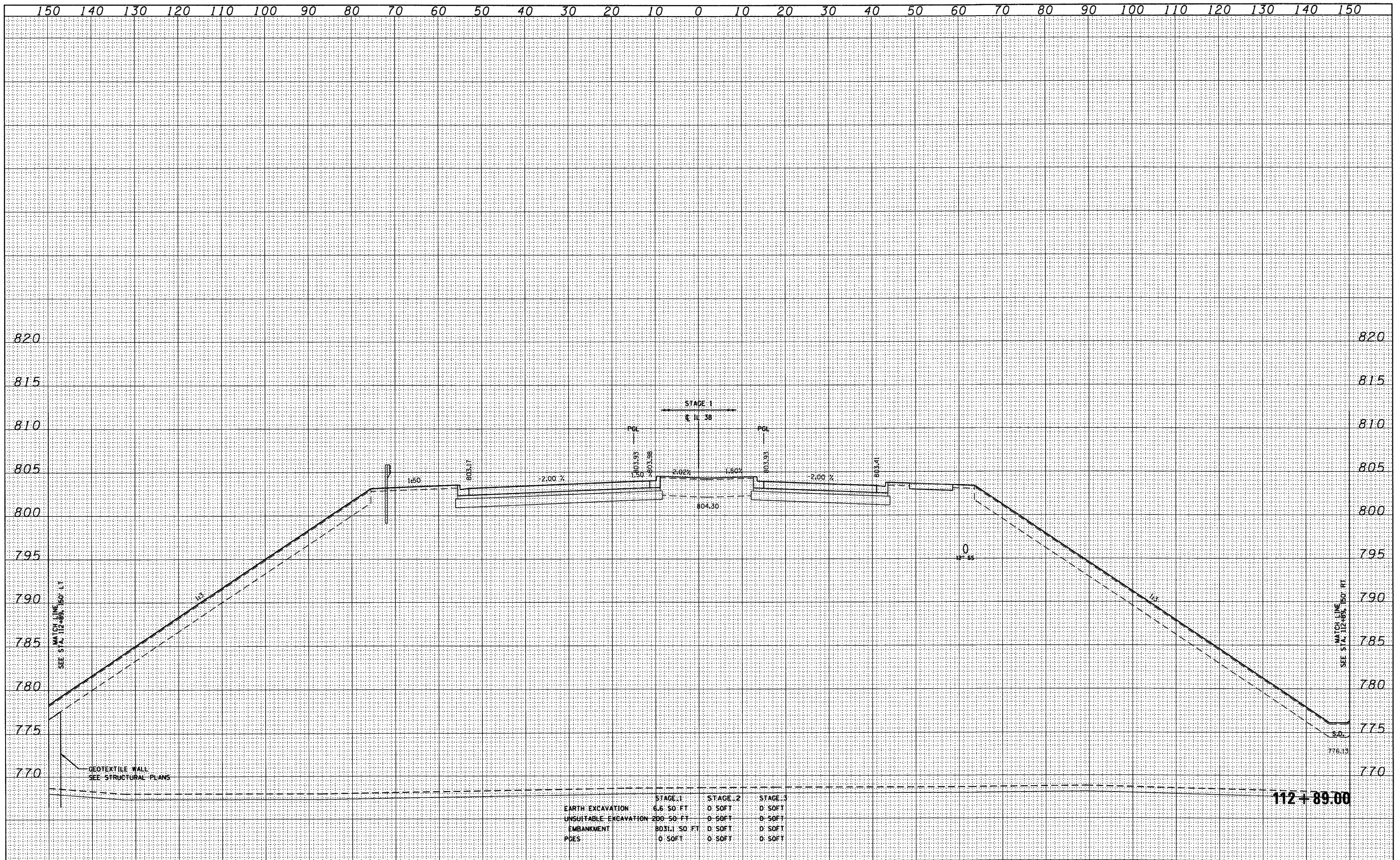
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 38 CROSS SECTIONS
 SCALE: 1"=10'H 1"=5'V SHEET NO. 53 OF 152 SHEETS STA. 112+50.00 TO STA. 112+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	XS-38-53		421	296
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

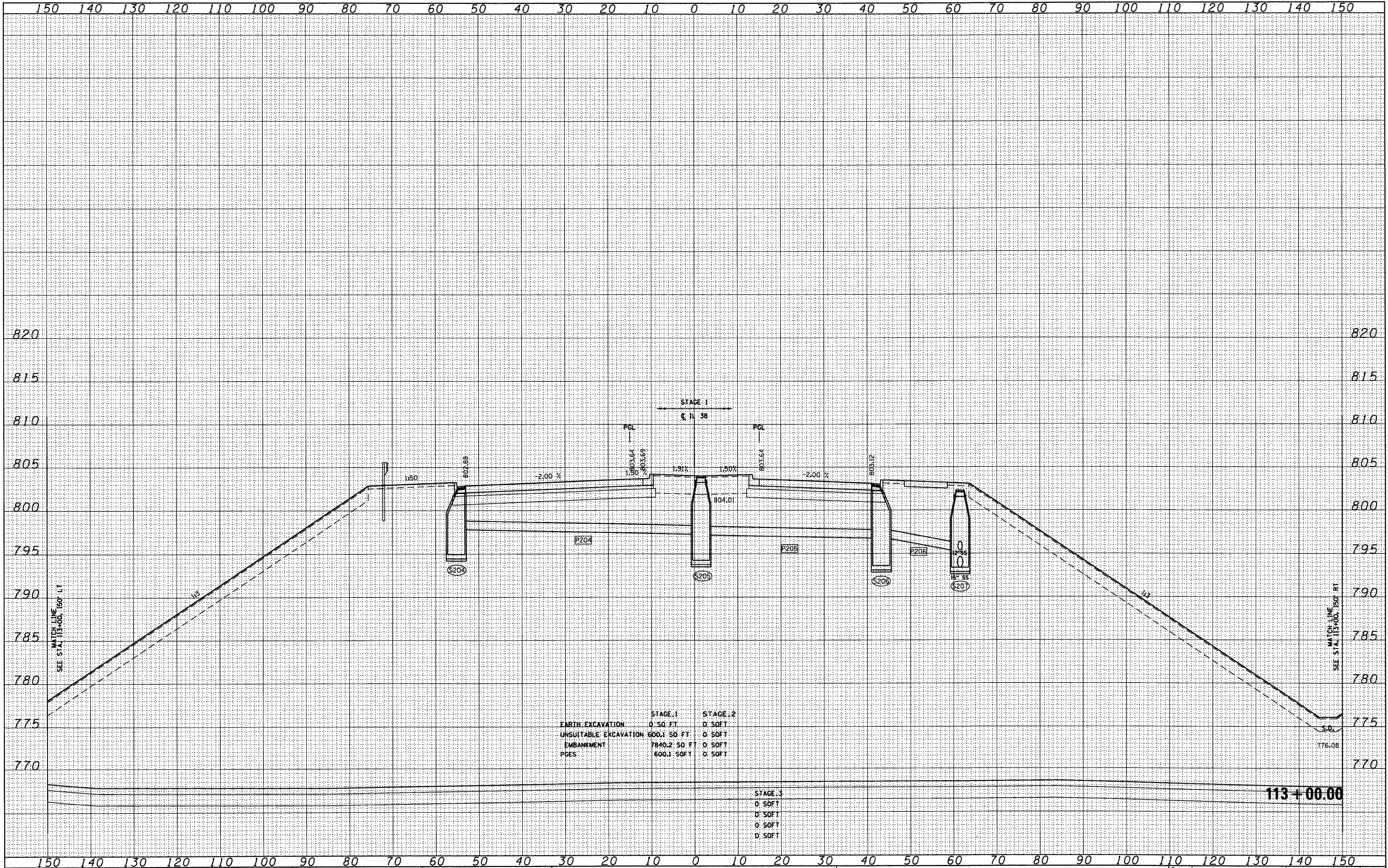
DATE	
BY	
SURVEYED	
PLOTTED	
NOTE DATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK NO.	

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



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

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



FILE NAME = D:\60122-SHT-XSSH701.dgn

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 DESIGNED - MJT
 DRAWN - MJT
 CHECKED - EJC
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

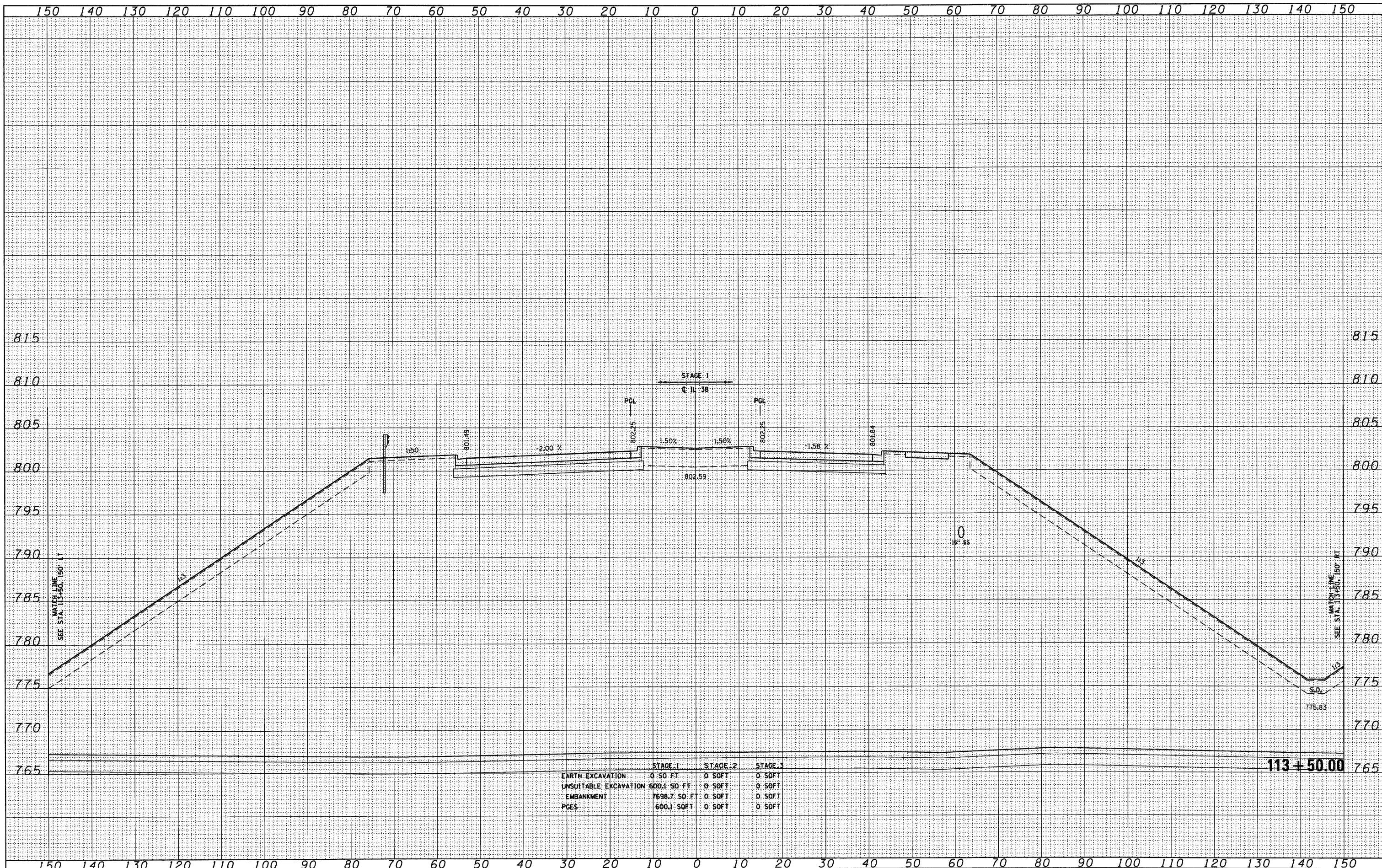
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL ROUTE 38 CROSS SECTIONS
 SCALE: 1"=10'H 1/4"=5' V SHEET NO. 55 OF 152 SHEETS STA. 113+00.00 TO STA. 113+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			421	298
XS-38-55		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

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

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



	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0 SO FT	0 SOFT	0 SOFT
UNSUITABLE EXCAVATION	600.1 SO FT	0 SOFT	0 SOFT
EMBANKMENT	7698.7 SO FT	0 SOFT	0 SOFT
PGES	600.1 SOFT	0 SOFT	0 SOFT

FILE NAME = D:\60122-SHT-XSSH\T01.dgn

USER NAME = YKlm
 DESIGNED - MJT
 DRAWN - MJT
 CHECKED - E.JG
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

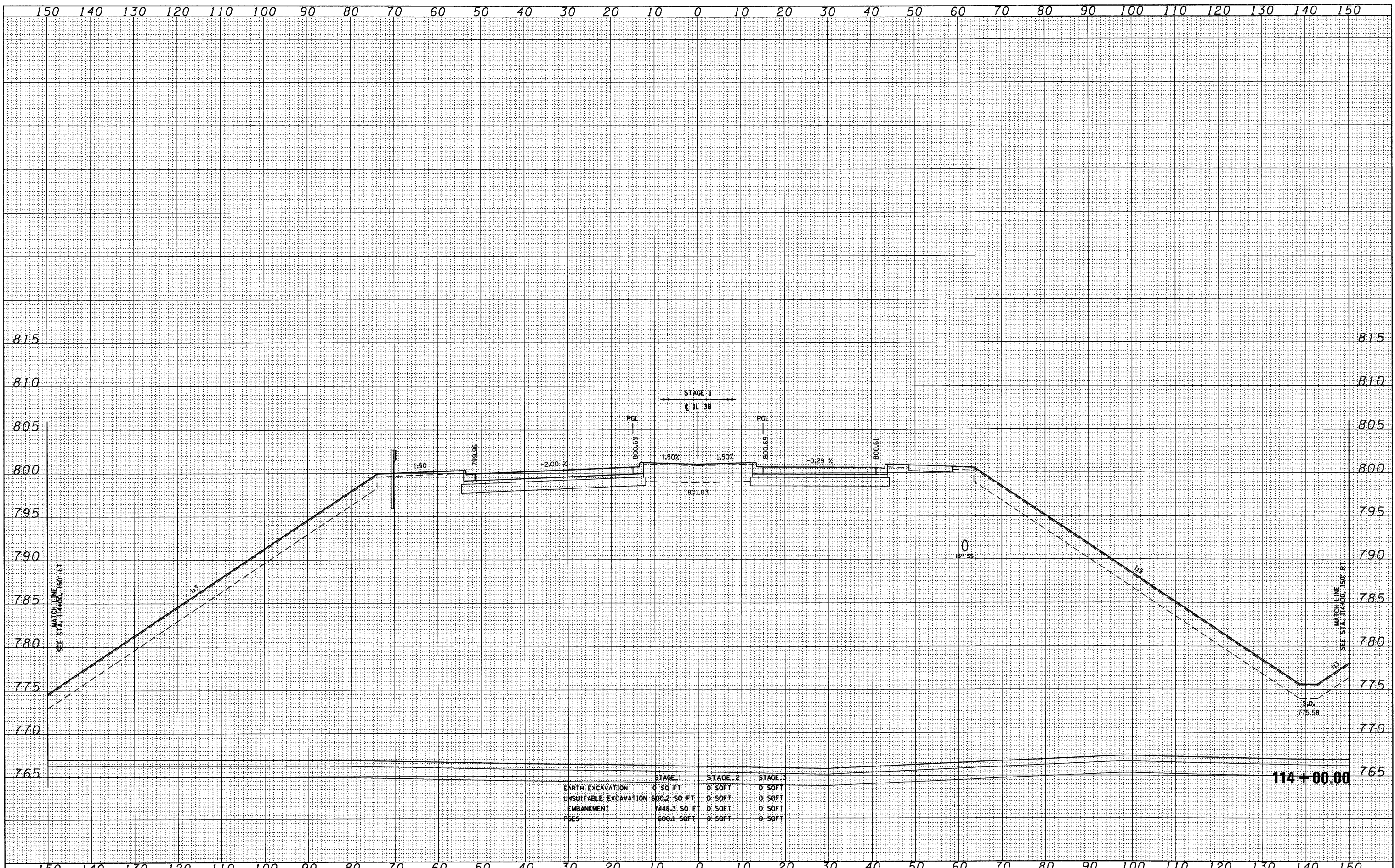
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL ROUTE 38 CROSS SECTIONS
 SCALE: 1"=10'H=1"=5'V SHEET NO. 56 OF 152 SHEETS STA. 113+50.00 TO STA. 113+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	XS-38-56		421	299
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

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

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



	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION	0 SQ FT	0 SQ FT	0 SQ FT
UNSUITABLE EXCAVATION	800.2 SQ FT	0 SQ FT	0 SQ FT
EMBANKMENT	7448.3 SQ FT	0 SQ FT	0 SQ FT
PSES	600.1 SQ FT	0 SQ FT	0 SQ FT

FILE NAME = D:\60122-SHT-XSSHT01.dgn

USER NAME = YKim
 DESIGNED - MJT
 DRAWN - MJT
 CHECKED - EJC
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL ROUTE 38 CROSS SECTIONS

SCALE: 1"=10'H 1"=5'V SHEET NO. 57 OF 152 SHEETS STA. 114+00.00 TO STA. 114+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			421	300
XS-38-57			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				