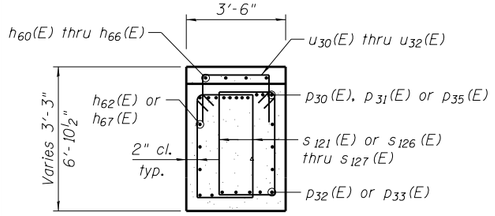
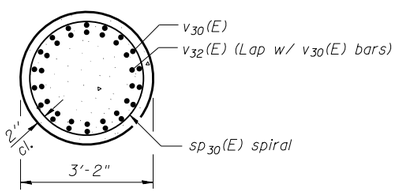
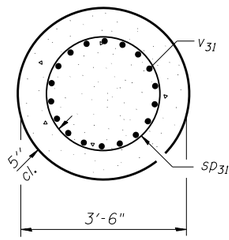


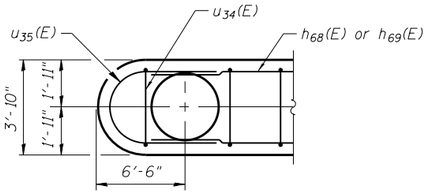
SECTION A-A



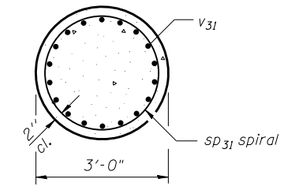
SECTION B-B



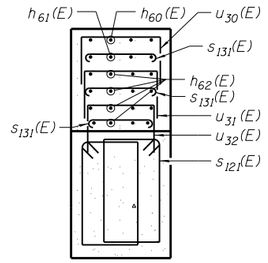
SECTION C-C



SECTION D-D

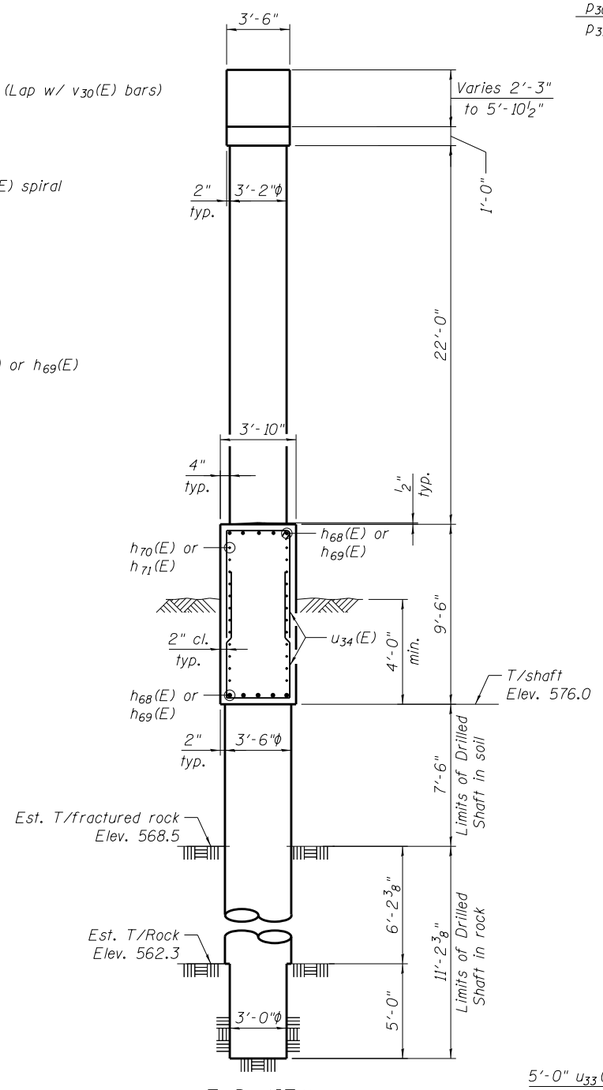


SECTION E-E



SECTION F-F

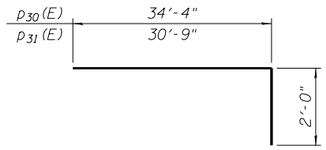
(Note p bars not shown for clarity)



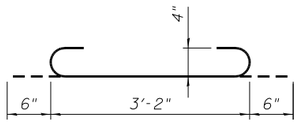
END VIEW

MINIMUM BAR LAP

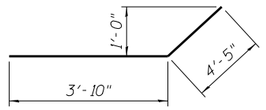
#5 bar = 3'-3"
#6 bar = 3'-10"
#7 bar = 5'-2"
#9 bar = 8'-7"



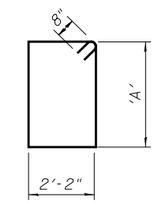
BARS p30(E) & p31(E)



BAR s131(E)

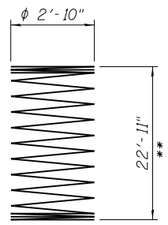


BAR p34(E)

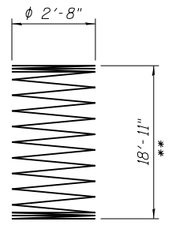


BARS s121(E) thru s130(E)

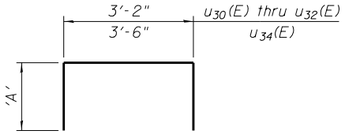
Bar	'A'
$s_{121}(E)$	2'-11"
$s_{122}(E)$	2'-10½"
$s_{123}(E)$	2'-9"
$s_{124}(E)$	2'-7½"
$s_{125}(E)$	2'-6"
$s_{126}(E)$	2'-5"
$s_{127}(E)$	2'-3½"
$s_{128}(E)$	2'-2"
$s_{129}(E)$	2'-1"
$s_{130}(E)$	1'-11½"



BAR sp30(E)

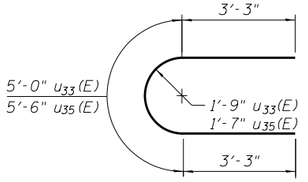


BAR sp31

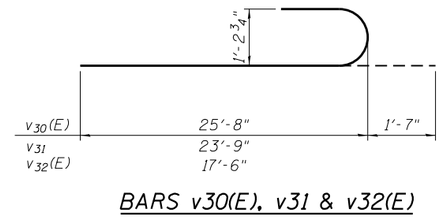


BARS u30(E), u31(E), u32(E) & u34(E)

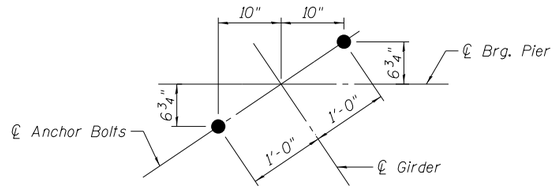
Bar	'A'
$u_{30}(E)$	3'-9"
$u_{31}(E)$	3'-2"
$u_{32}(E)$	1'-9"
$u_{34}(E)$	6'-7"



BARS u33(E) & u35(E)



BARS v30(E), v31 & v32(E)



ANCHOR BOLT LAYOUT

BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
*	$h_{60}(E)$	8	#5	6'-10"	
	$h_{61}(E)$	4	#5	22'-4"	
*	$h_{62}(E)$	20	#5	36'-0"	
	$h_{63}(E)$	4	#5	17'-0"	
	$h_{64}(E)$	8	#5	7'-8"	
	$h_{65}(E)$	4	#5	32'-6"	
*	$h_{66}(E)$	4	#5	47'-4"	
	$h_{67}(E)$	8	#5	29'-7"	
	$h_{68}(E)$	10	#7	35'-11"	
	$h_{69}(E)$	20	#7	30'-7"	
	$h_{70}(E)$	24	#6	35'-11"	
	$h_{71}(E)$	48	#6	29'-11"	
	$p_{30}(E)$	11	#9	36'-4"	
	$p_{31}(E)$	11	#9	32'-9"	
	$p_{32}(E)$	7	#9	31'-9"	
	$p_{33}(E)$	14	#9	29'-5"	
*	$p_{34}(E)$	14	#6	8'-3"	
	$p_{35}(E)$	11	#9	30'-9"	
	$s_{121}(E)$	396	#6	11'-6"	
	$s_{122}(E)$	4	#6	11'-5"	
	$s_{123}(E)$	4	#6	11'-2"	
	$s_{124}(E)$	4	#6	10'-11"	
	$s_{125}(E)$	4	#6	10'-8"	
	$s_{126}(E)$	4	#6	10'-6"	
	$s_{127}(E)$	4	#6	10'-3"	
	$s_{128}(E)$	4	#6	10'-0"	
	$s_{129}(E)$	4	#6	9'-10"	
	$s_{130}(E)$	4	#6	9'-7"	
	$s_{131}(E)$	87	#4	4'-2"	
**	$sp_{30}(E)$	10	#5	22'-2"	
**	sp_{31}	10	#5	18'-11"	
	$u_{30}(E)$	24	#4	10'-8"	
	$u_{31}(E)$	57	#4	9'-6"	
	$u_{32}(E)$	137	#4	6'-8"	
	$u_{33}(E)$	10	#5	11'-6"	
	$u_{34}(E)$	366	#6	16'-8"	
	$u_{35}(E)$	20	#5	12'-0"	
	$v_{30}(E)$	180	#11	27'-3"	
	v_{31}	180	#11	25'-4"	
	$v_{32}(E)$	180	#11	19'-1"	
	Structure Excavation		Cu. Yd.	154.9	
	Concrete Structures		Cu. Yd.	246.2	
	Reinforcement Bars		Pound	27,810	
	Reinforcement Bars, Epoxy Coated		Pound	80,160	
	Drilled Shaft in Soil		Cu. Yd.	26.8	
	Drilled Shaft in Rock		Cu. Yd.	35.2	

Minimum lap for spirals = 3'-3"
* Cut to fit in field
** Length is height of spiral.

HBP Illinois Partners

USER NAME = default	DESIGNED - DF	REVISED
	CHECKED - BK	REVISED
PLOT SCALE = $SCALE$	DRAWN - MTR	REVISED
PLOT DATE = 6/26/2020	CHECKED - DF	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 3 DETAILS II
STRUCTURE NO. 099-0904
SHEET NO. 51 OF 65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	401
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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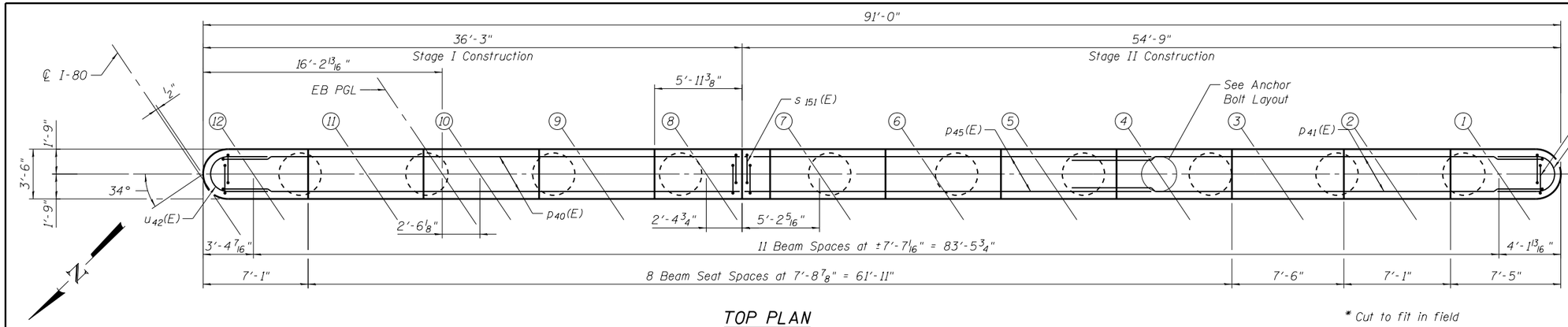
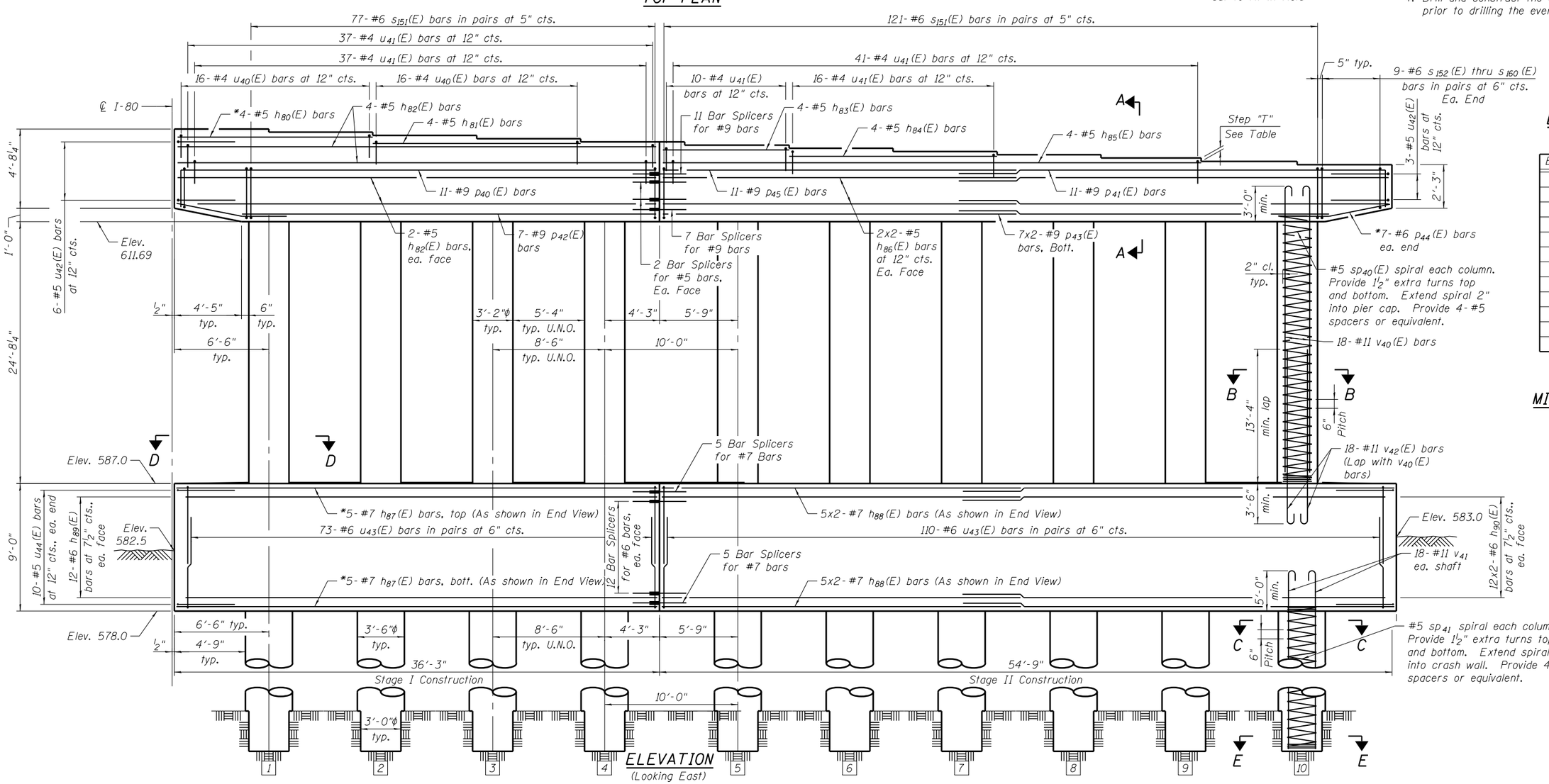


NOTES

1. For Pier General Notes see sheet 46 of 65.
2. See sheet 53 of 65 for Bill of Material, Section A-A, B-B, C-C, D-D, E-E, and Bar Diagram.
3. For Anchor Bolt Layout Plan see sheet 53 of 65.
4. Drill and construct the odd-numbered shafts prior to drilling the even-numbered shafts.

TOP PLAN

* Cut to fit in field



ELEVATION
(Looking East)

BEARING SEAT ELEVATIONS

Beam	Elevation	Step "T"
12	617.38	2"
11	617.21	2 3/8"
10	617.01	2 1/2"
9	616.80	2 1/2"
8	616.59	2 1/2"
7	616.38	2 5/8"
6	616.16	2 3/4"
5	615.93	2 7/8"
4	615.69	3"
3	615.44	3"
2	615.19	3"
1	614.94	

MINIMUM BAR LAP

#5 bar = 3'-3"
#6 bar = 3'-10"
#7 bar = 5'-2"
#9 bar = 8'-7"

USER NAME = default	DESIGNED - DF	REVISED	
	CHECKED - BK	REVISED	
PLOT SCALE = $SCALE$	DRAWN - MTR	REVISED	
PLOT DATE = 6/26/2020	CHECKED - DF	REVISED	

HBP Illinois Partners

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 4 DETAILS I
STRUCTURE NO. 099-0904
SHEET NO. 52 OF 65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	402
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		

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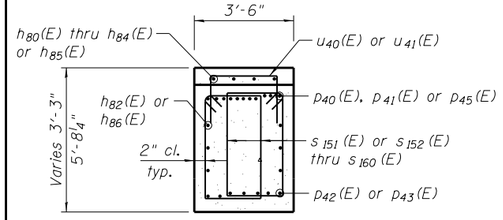
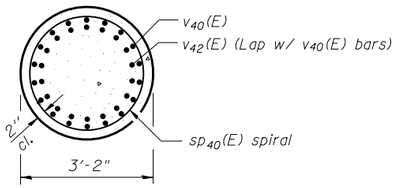
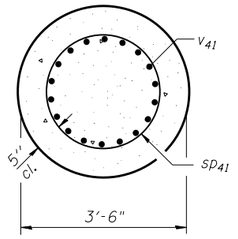


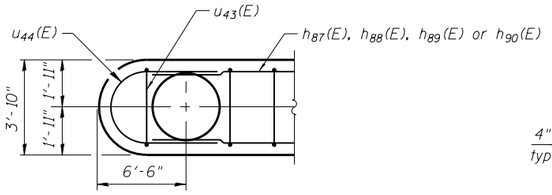
SECTION A-A



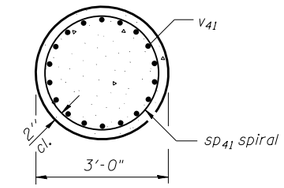
SECTION B-B



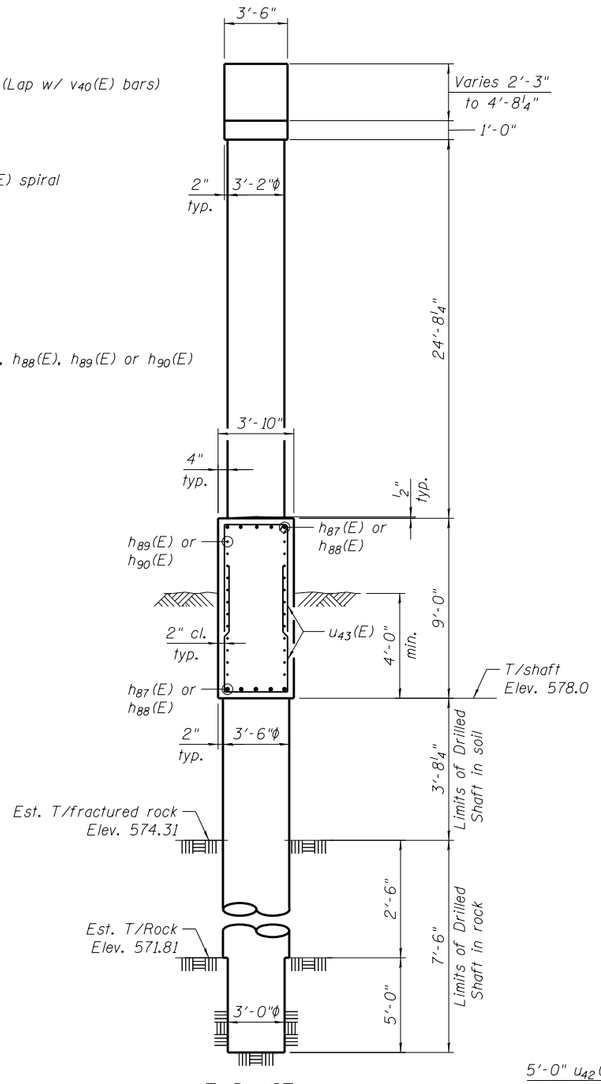
SECTION C-C



SECTION D-D

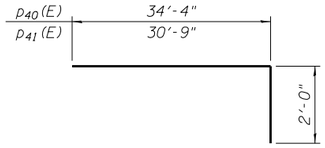


SECTION E-E

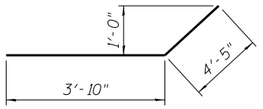


END VIEW

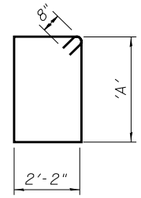
ANCHOR BOLT LAYOUT



BARS p40(E) & p41(E)

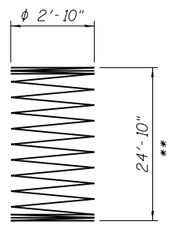


BAR p44(E)

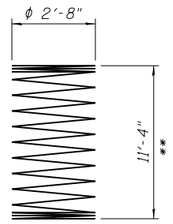


BARS s151(E) thru s160(E)

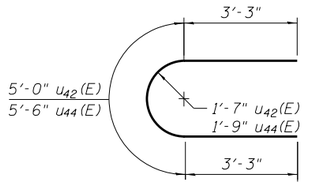
Bar	'A'
s151(E)	2'-11"
s152(E)	2'-10½"
s153(E)	2'-9"
s154(E)	2'-8"
s155(E)	2'-6"
s156(E)	2'-5"
s157(E)	2'-3½"
s158(E)	2'-2"
s159(E)	2'-1"
s160(E)	1'-11½"



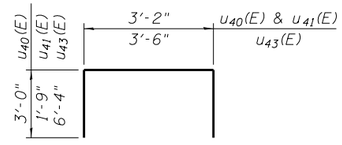
BAR sp40(E)



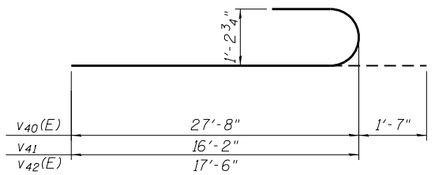
BAR sp41



BARS u42(E) & u44(E)



BARS u40(E), u41(E) & u43(E)



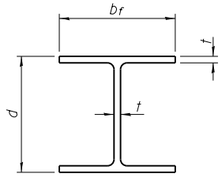
BARS v40(E), v41 & v42(E)

BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
*	h80(E)	4	#5	14'-7"	
	h81(E)	4	#5	15'-3"	
*	h82(E)	12	#5	36'-0"	
	h83(E)	4	#5	9'-4"	
	h84(E)	4	#5	15'-4"	
	h85(E)	4	#5	40'-3"	
	h86(E)	8	#5	29'-7"	
*	h87(E)	10	#7	35'-11"	
	h88(E)	20	#7	30'-7"	
	h89(E)	24	#6	35'-11"	
	h90(E)	48	#6	29'-11"	
	p40(E)	11	#9	36'-4"	
*	p41(E)	11	#9	32'-9"	
	p42(E)	7	#9	31'-9"	
	p43(E)	14	#9	29'-0"	
*	p44(E)	14	#6	8'-3"	
	p45(E)	11	#9	30'-9"	
	s151(E)	396	#6	11'-6"	
	s152(E)	4	#6	11'-5"	
	s153(E)	4	#6	11'-2"	
	s154(E)	4	#6	11'-0"	
	s155(E)	4	#6	10'-8"	
	s156(E)	4	#6	10'-6"	
	s157(E)	4	#6	10'-3"	
	s158(E)	4	#6	10'-0"	
	s159(E)	4	#6	9'-10"	
	s160(E)	4	#6	9'-7"	
**	sp40(E)	10	#5	24'-11"	
**	sp41	10	#5	11'-4"	
	u40(E)	32	#4	9'-2"	
	u41(E)	141	#4	6'-8"	
	u42(E)	9	#5	11'-6"	
	u43(E)	366	#6	16'-2"	
	u44(E)	20	#5	12'-0"	
	v40(E)	180	#11	29'-3"	
	v41	180	#11	17'-9"	
	v42(E)	180	#11	19'-1"	

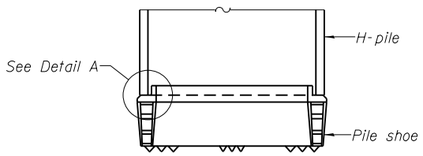
Structure Excavation	Cu. Yd.	98.6
Concrete Structures	Cu. Yd.	240.7
Reinforcement Bars	Pound	19,230
Reinforcement Bars, Epoxy Coated	Pound	81,180
Drilled Shaft in Soil	Cu. Yd.	13.2
Drilled Shaft in Rock	Cu. Yd.	22.0

Minimum lap for spirals = 3'-3"
* Cut to fit in field
** Length is height of spiral

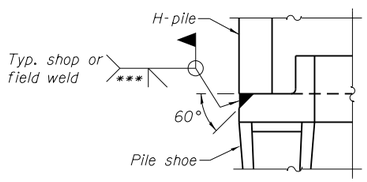


STEEL PILE TABLE

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

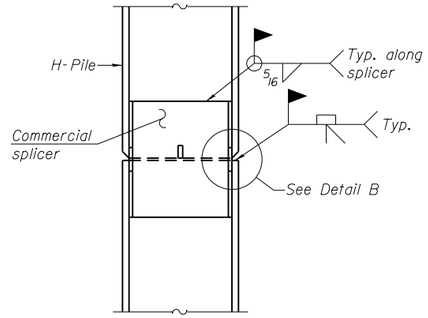


ELEVATION

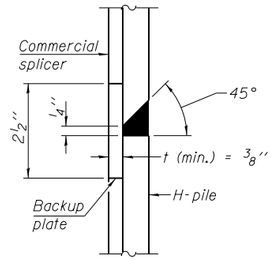


DETAIL A

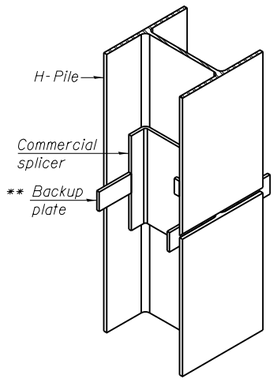
H-PILE SHOE ATTACHMENT



ELEVATION

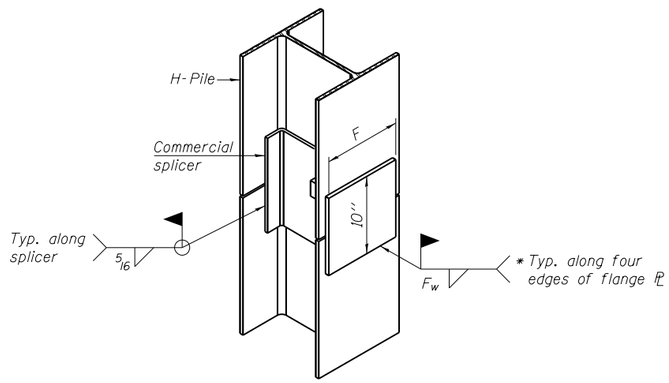


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



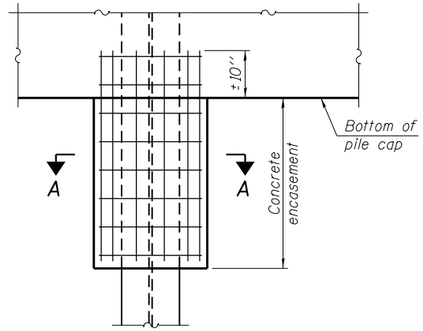
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

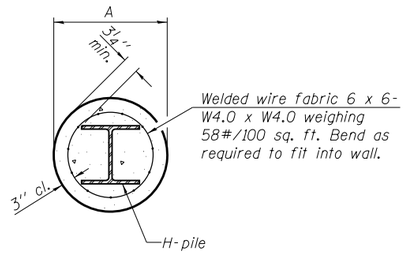
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).



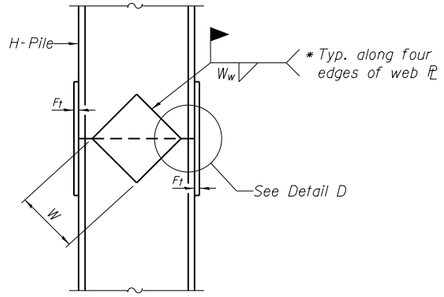
ELEVATION



SECTION A-A

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

PILE ENCASEMENT



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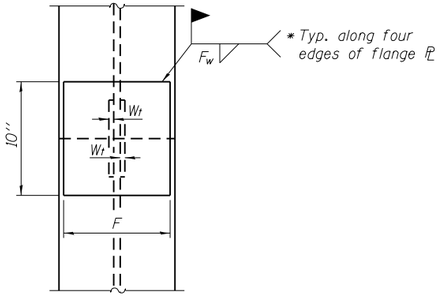
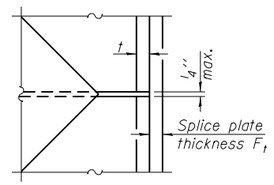


END VIEW



DETAIL D

Designation	F	F_t	F_w	W	W_t	W_w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

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

F-HP 1-27-12

USER NAME = default	DESIGNED - DF	REVISED	
	CHECKED - BK	REVISED	
PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED	
PLOT DATE = 6/26/2020	CHECKED - DF	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 099-0904
SHEET NO. 54 OF 65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	404
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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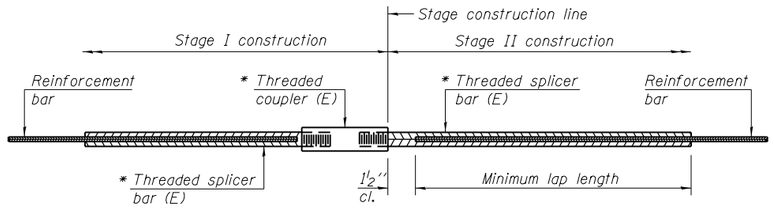
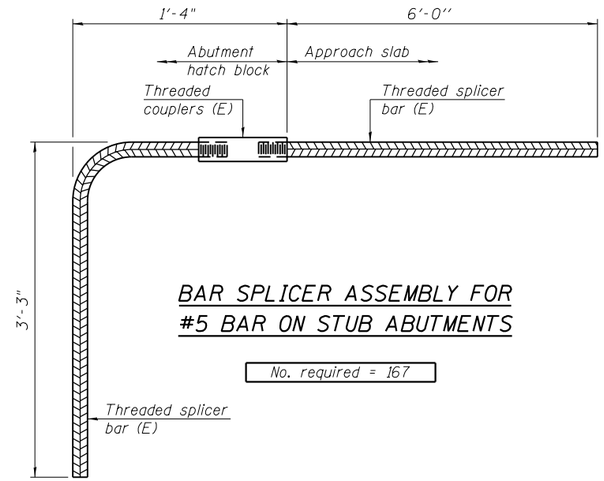


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1½" + thread length

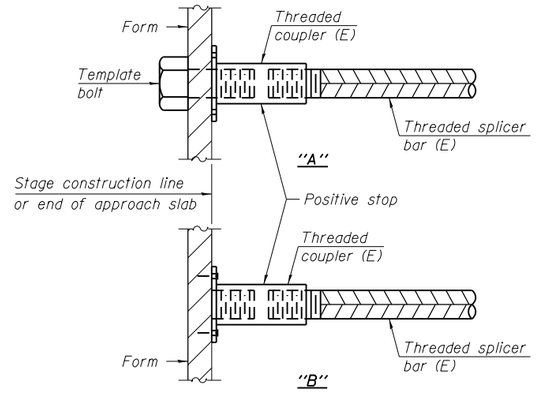
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	1718	3'-3"
East Approach Slab	#5	79	3'-3"
East Approach Slab	#8	52	6'-9"
West Approach Slab	#5	86	3'-3"
West Approach Slab	#8	60	6'-9"
East Abutment	#5	10	3'-3"
East Abutment	#6	5	3'-10"
East Abutment	#7	8	5'-2"
West Abutment	#5	10	3'-3"
West Abutment	#6	5	3'-10"
West Abutment	#7	8	5'-2"
Pier 1	#5	6	3'-3"
	#6	26	3'-10"
	#8	6	6'-9"
	#9	24	8'-7"
Pier 2	#5	12	3'-3"
	#8	10	6'-9"
	#9	18	8'-7"
Pier 3	#5	4	3'-3"
	#6	24	3'-10"
	#7	10	5'-2"
	#9	18	8'-7"
Pier 4	#5	4	3'-3"
	#6	24	3'-10"
	#7	10	5'-2"
	#9	18	8'-7"



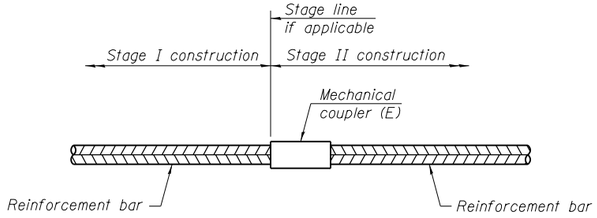
BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 167



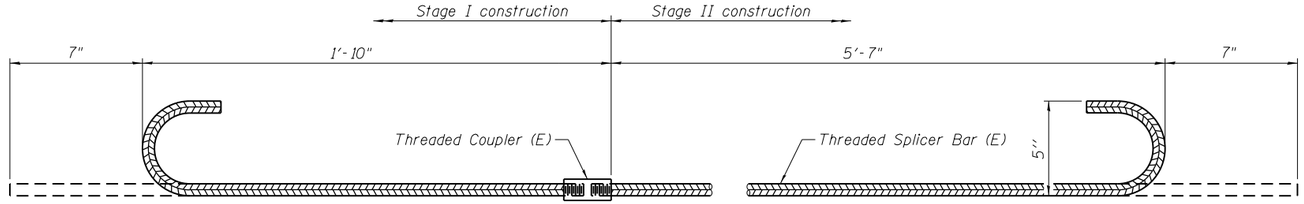
INSTALLATION AND SETTING METHODS

"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 a5(E) BAR AT STAGE CONSTRUCTION JOINT

No. required = 3

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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PLOT DATE = 6/26/2020	CHECKED - DF	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 099-0904

SHEET NO. 55 OF 65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	405
		CONTRACT NO. 60W34		
ILLINOIS	FED. AID PROJECT			

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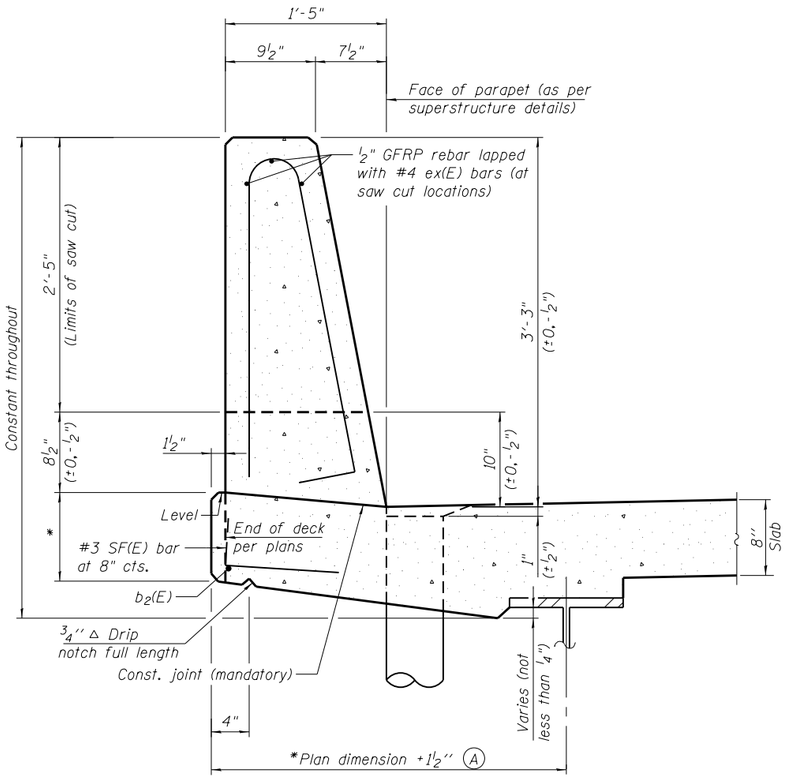
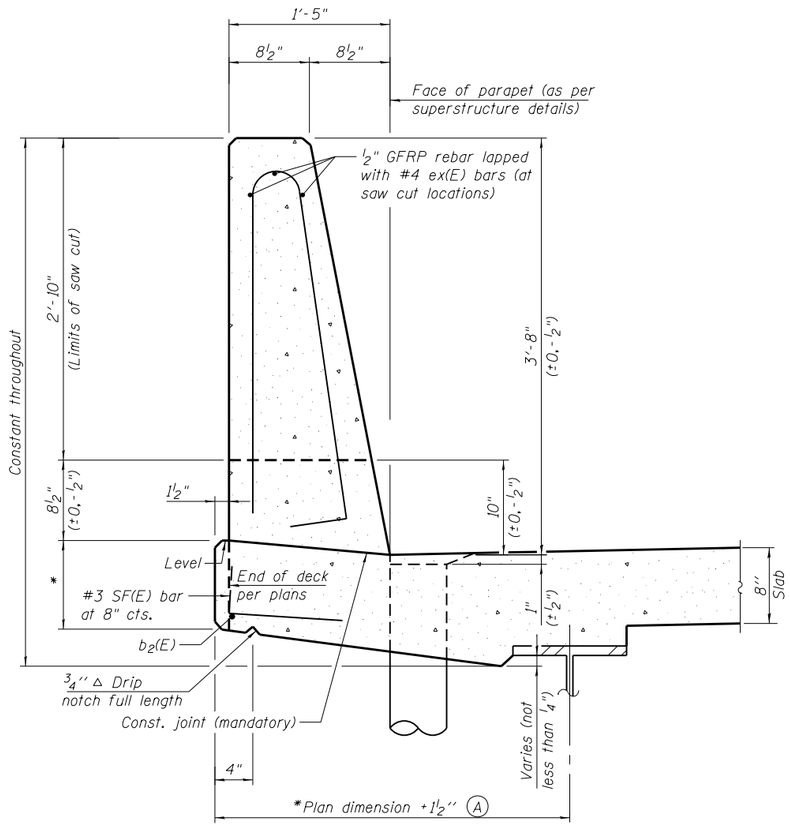


39" CONSTANT-SLOPE PARAPET SECTION

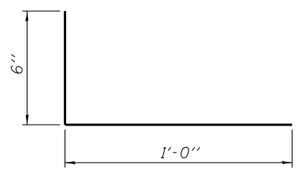
(Showing dimensions, d(E), and ½" ϕ GFRP rebar)



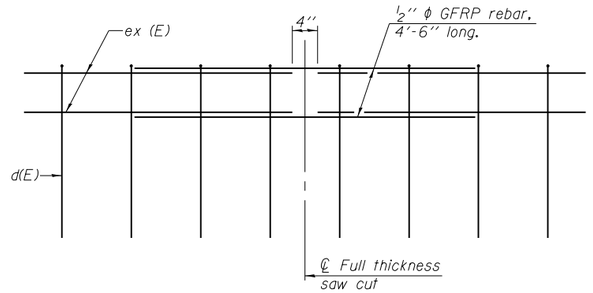
44" CONSTANT-SLOPE PARAPET SECTION

(Showing dimensions, d(E), and ½" ϕ GFRP rebar)

*See Superstructure Details



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

GENERAL NOTES

All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 44" parapets.

Place full depth aluminum sheets as shown on superstructure details.

Replace all cork joint filler locations with a full thickness saw cut.

Steel superstructure shown. Other superstructure types similar.

Slipforming of the median parapet (adjacent to the centerline of I-80) is not allowed.

USER NAME = default	DESIGNED - -	REVISED	
	CHECKED - DF	REVISED	
PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED	
PLOT DATE = 6/26/2020	CHECKED - DF	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 099-0904
SHEET NO. 56 OF 65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	406
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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SOIL BORING LOG

GSI Job No. 13125
Page 1 of 2
Date 3/20/14

ROUTE F.A.I RTE. 80 **DESCRIPTION** I-80 Phase II (Near Term) **LOGGED BY** JB

SECTION ______ **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R10E, 3rd **PM**

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. ______
Station ______
BORING NO. BSB-34
Station 759+51
Offset 58.20ft Right
Ground Surface Elev. 605.22 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After ___ **Hrs.** ___ ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT, 4.0" CRUSHED STONE, 6.0" CRUSHED ASPHALT, 6.0" CRUSHED STONE		50/2"		
603.22				3
CLAY to CLAY LOAM-brown & gray-stiff to very stiff (Fill)		2		
		3	1.9	21
	-5	4	B	
		2		
		3	2.5	24
		3	P	
		3		
		5	3.7	17
	-10	4	B	
		3		
		4	1.8	17
		4	B	
		3		
		4	1.0	20
	-15	5	B	
		6		
		7	2.2	19
		7	B	
		3		
		5	2.2	17
	-20	9	B	
CLAY to CLAY LOAM-brown & gray-stiff to very stiff (Fill) *(continued)*		3		
		6	2.5	17
		9	B	
		5		
		7	2.1	21
	-25	10	B	
		6		
		7	3.2	14
		8	B	
		4		
		6	1.8	16
	-30	11	B	
		6		
		6	2.0	21
	-35	8	P	
		7		
		9	2.1	18
	-40	14	B	

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The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG

GSI Job No. 13125
Page 2 of 2
Date 3/20/14

ROUTE F.A.I RTE. 80 **DESCRIPTION** I-80 Phase II (Near Term) **LOGGED BY** JB

SECTION ______ **LOCATION** SE 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R10E, 3rd **PM**

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. ______
Station ______
BORING NO. BSB-34
Station 759+51
Offset 58.20ft Right
Ground Surface Elev. 605.22 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After ___ **Hrs.** ___ ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY to CLAY LOAM-brown & gray-stiff to very stiff (Fill) *(continued)*				
561.22		18		
FRACTURED ROCK-gray-very dense		50/5"		16
	-45			
		25		
		50/5"		9
	-50			
		50/2"		
				5
	-55			
		50/3"		
	-60			
FRACTURED ROCK-gray-very dense *(continued)*				
541.22		6		
Drillers Observation: Apparent Bedrock		50/3"		
540.22	-65			
Borehole continued with rock coring.				
	-70			
	-75			
	-80			

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The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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ROCK CORE LOG

PAGE 1 of 1
DATE 3/21/2014
LOGGED BY JK
GSI JOB No. 13125

ROUTE --
DESCRIPTION I-80 Reconstruction (Near Term Phase 2)
SECTION --
LOCATION SEC 15, T35N, R10E, SE 1/4, 3rd PM
COUNTY Will
CORING METHOD Rotary Wash
STRUCT. NO. --
Station --
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. *541.2*
Begin Core Elev. *540.2*
BORING NO. **BSB-34**
Station 759+51
Offset 58.2' Right
Ground Surface Elev. *605.22*

Description	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE RUN 1 (-65.0' to -75.0') Light gray with horizontal bedding. Some horizontal fractures throughout.		1	100.0	95.0	n/a	1037 @ -65.3'
	-70					
	-75					

Color pictures of the cores Yes Cores will be stored for examination for -
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

HBP Illinois Partners	USER NAME = default	DESIGNED -	REVISED
		CHECKED -	REVISED
	PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED
	PLOT DATE = 6/26/2020	CHECKED - DF	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS I
STRUCTURE NO. 099-0904
SHEET NO. 57 OF 65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	407

CONTRACT NO. 60W34
ILLINOIS FED. AID PROJECT

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SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 11/5/13

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. BSB-36
Station 760+81
Offset 6.40ft Right
Ground Surface Elev. 574.52 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 566.0 ft
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT 573.85			
CRUSHED STONE	9		
	7 9		14
571.52 LOAM-dark brown & gray-medium dense (A-4)	4		
-5	5 5		27
	2		
	3 10		34
566.02 ▼ SILTY SAND & FRACTURED ROCK-brown-very dense	15		
-10	17 50/5"		11
563.52 Drillers Observation: Apparent Bedrock			
562.02 Borehole continued with rock coring.			
-15			
-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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ROCK CORE LOG

PAGE 1 of 1
DATE 11/5/2013
LOGGED BY JK
GSI JOB No. 13125

ROUTE --
SECTION --
COUNTY Will
STRUCT. NO. --
Station --
BORING NO. BSB-36
Station 760+81
Offset 6.4' Right
Ground Surface Elev. 574.52

DESCRIPTION I-80 Reconstruction (Near Term Phase 2)
LOCATION SEC 14, T35N, R10E, SW 1/4, 3rd PM
CORING METHOD Rotary Wash
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 563.5
Begin Core Elev. 562.0

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE RUN 1 (-12.5' to -22.5') Light gray with horizontal bedding. Fine grained with few chert nodules. Some horizontal fractures throughout.	1	100.0	69.0	n/a	1171 @ -15.1'
-17.5					
-22.5					

Color pictures of the cores Yes Cores will be stored for examination for --
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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Naperville, Illinois 60565
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SOIL BORING LOG

GSI Job No. 13125
Page 1 of 2
Date 3/26/14

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY JB
SECTION LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. BSB-38
Station 761+37
Offset 31.40ft Right
Ground Surface Elev. 611.31 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter n/a ft
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" CONCRETE BRIDGE DECK 610.48			
VOID			
-5			
-10			
-15			
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VOID *(continued)*			
-25			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\13125 HNTB, I-80 PHASE II (NEAR TERM)\13125 BORING LOGS\13125_LOG.GPJ 7/3/14

HBP Illinois Partners	USER NAME = default	DESIGNED -	REVISED
		CHECKED -	REVISED
	PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED
	PLOT DATE = 6/26/2020	CHECKED - DF	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS II
STRUCTURE NO. 099-0904
SHEET NO. 58 OF 65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	408
			CONTRACT NO. 60W34	
	ILLINOIS	FED. AID PROJECT		

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Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

GSI Job No. 13125
Page 2 of 2
Date 3/26/14

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY JB
SECTION LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. BSB-38
Station 761+37
Offset 31.40ft Right
Ground Surface Elev. 611.31 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter n/a ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VOID *(continued)*			
569.31			
CLAY-brown-stiff (Fill)	8		
	6	1.5	22
567.81	5	B	
SILTY CLAY-dark brown	10		
566.81	50/5"		
Drillers Observation-Fractured & weathered rock			42
565.81			
Drillers Observation-Apparent Bedrock			
100.0% water loss @ -47.0' 563.81			
Borehole continued with rock coring.			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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ROCK CORE LOG

PAGE 1 of 1
DATE 3/26/2014
LOGGED BY JK
GSI JOB No. 13125

ROUTE --
SECTION --
COUNTY Will
STRUCT. NO. --
Station --
BORING NO. BSB-38
Station 761+37
Offset 31.4' Right
Ground Surface Elev. 611.31

DESCRIPTION I-80 Reconstruction (Near Term Phase 2)
LOCATION SEC 14, T35N, R10E, SW 1/4, 3rd PM
CORING METHOD Rotary Wash
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 566.0
Begin Core Elev. 564.0

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE					
RUN 1 (-47.5' to -57.5')	1	100.0	67.0	n/a	644 ● -49.7
Light gray to gray with some rust staining. Horizontal bedding with numerous horizontal fractures throughout.					
-52.5					
-57.5					

Color pictures of the cores Yes Cores will be stored for examination for --
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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SOIL BORING LOG

GSI Job No. 13125
Page 1 of 2
Date 3/25/14

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY NW
SECTION LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. BSB-41
Station 762+84
Offset 31.30ft Right
Ground Surface Elev. 615.22 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter n/a ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" CONCRETE BRIDGE DECK			
614.39			
VOID			
581.22			
SILTY LOAM with	10		
Sand-gray-medium dense (Fill)	9		64
	10		
579.22	7		
SAND & GRAVEL-brown &	5		
gray-medium dense (Fill)	6		21
577.22	8		
	8		
ORGANIC LOAM-dark brown to	6		
black-medium dense (A-7)	6		42
	3		
	3		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VOID *(continued)*			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

USER NAME = default	DESIGNED -		REVISED
	CHECKED -		REVISED
PLOT SCALE = $SCALE$	DRAWN - LAM		REVISED
PLOT DATE = 6/26/2020	CHECKED - DF		REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS III
STRUCTURE NO. 099-0904
SHEET NO. 59 OF 65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	409
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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SOIL BORING LOG

GSI Job No. 13125
Page 2 of 2
Date 3/25/14

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY NW
SECTION LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. BSB-41
Station 762+84
Offset 31.30ft Right
Ground Surface Elev. 615.22 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter n/a ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ORGANIC LOAM-dark brown to black-medium dense (A-7) *(continued)*	3		
	3		51
573.22	4		
SAND, GRAVEL & FRACTURED ROCK-brown-dense	9		
	8		
	10		8
	15		
-45	19		
569.22			
Drillers Observation: Apparent bedrock 100.0% water loss @ -46.5' 568.22			
Borehole continued with rock coring.			
-50			
-55			
-60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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ROCK CORE LOG

PAGE 1 of 1
DATE 3/25/2014
LOGGED BY JK
GSI JOB No. 13125

ROUTE --
SECTION --
COUNTY Will
STRUCT. NO. --
Station --
BORING NO. BSB-41
Station 762+84
Offset 31.3' Right
Ground Surface Elev. 615.22

DESCRIPTION I-80 Reconstruction (Near Term Phase 2)
LOCATION SEC 14, T35N, R10E, SW 1/4, 3rd PM
CORING METHOD Rotary Wash
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 569.2
Begin Core Elev. 568.2

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE					
RUN 1 (-47.0' to -57.0')	1	98.0	29.0	n/a	832 @ -52.5'
Light gray to gray with horizontal bedding. Weathered with rust staining to -52.0'. Numerous horizontal fractures throughout.					
-52.0					
-57.0					

Color pictures of the cores Yes Cores will be stored for examination for --
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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SOIL BORING LOG

GSI Job No. 13125
Page 1 of 2
Date 3/31/14

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY NW
SECTION LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. BSB-42
Station 762+03
Offset 53.30ft Right
Ground Surface Elev. 612.91 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter n/a ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" CONCRETE BRIDGE DECK 612.08			
VOID			
-5			
-10			
-15			
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VOID *(continued)*			
-25			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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USER NAME = default	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED
PLOT DATE = 6/26/2020	CHECKED - DF	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS IV
STRUCTURE NO. 099-0904
SHEET NO. 60 OF 65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	410
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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SOIL BORING LOG

GSI Job No. 13125
Page 2 of 2
Date 3/31/14

ROUTE F.A.I RTE. 80 **DESCRIPTION** I-80 Phase II (Near Term) **LOGGED BY** NW

SECTION **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**

COUNTY Will **DRILLING METHOD** Mud Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. BSB-42
Station 762+03
Offset 53.30ft Right
Ground Surface Elev. 612.91 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter n/a ft
Upon Completion n/a ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VOID *(continued)*	568.91				
FRACTURED ROCK	567.41	-45	2 4 25		15
Drillers Observation: Apparent bedrock	565.41		50/3"		
Borehole continued with rock coring.		-50 -55 -60			

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The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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ROCK CORE LOG

PAGE 1 of 1
DATE 3/31/2014
LOGGED BY JK
GSI JOB No. 13125

ROUTE -- DESCRIPTION I-80 Reconstruction (Near Term Phase 2)

SECTION -- LOCATION SEC 14, T35N, R10E, SW 1/4, 3rd PM

COUNTY Will CORING METHOD Rotary Wash

STRUCT. NO. --
Station --

BORING NO. **BSB-42**
Station 762+03
Offset 53.3' Right
Ground Surface Elev. 612.91

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 567.4
Begin Core Elev. 565.4

Description	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE RUN 1 (-47.5' to -57.5') Light gray to gray & fine grained with horizontal bedding. Some light rust staining with numerous horizontal fractures throughout.	-52.5 -57.5	1	94.0	42.5	n/a	710 @ -41.5'

Color pictures of the cores Yes Cores will be stored for examination for -
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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SOIL BORING LOG

GSI Job No. 13125
Page 1 of 2
Date 4/24/14

ROUTE F.A.I RTE. 80 **DESCRIPTION** I-80 Phase II (Near Term) **LOGGED BY** NW

SECTION **LOCATION** SW 1/4, **SEC.** 14, **TWP.** T35N, **RNG.** R10E, 3rd **PM**

COUNTY Will **DRILLING METHOD** Mud Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. BSB-45
Station 731+16
Offset 53.10ft Right
Ground Surface Elev. 616.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter n/a ft
Upon Completion n/a ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
9.5" CONCRETE BRIDGE DECK	615.51				
VOID		-5 -10 -15 -20			

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VOID *(continued)*	583.30	-25 -30			
CRUSHED CONCRETE, GRAVEL & STONE-loose to medium dense (Fill)			3 4 6		7
		-35	6 8		
			7 6 6		6
			8		
			6 6 6		5
		-40	5		6

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The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

HBP Illinois Partners	USER NAME = default	DESIGNED -	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS V STRUCTURE NO. 099-0904	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED			80	2013-008B	WILL	511	411
	PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED			CONTRACT NO. 60W34				
	PLOT DATE = 6/26/2020	CHECKED - DF	REVISED		SHEET NO. 61 OF 65 SHEETS	ILLINOIS FED. AID PROJECT				

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SOIL BORING LOG

GSI Job No. 13125
Page 2 of 2
Date 4/24/14

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY NW
SECTION — LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. —
Station —
BORING NO. BSB-45
Station 731+16
Offset 53.10ft Right
Ground Surface Elev. 616.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter n/a ft
Upon Completion n/a ft
After — Hrs. — ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	5			CRUSHED CONCRETE, GRAVEL & STONE-loose to medium dense (Fill) *(continued)*
	6			
	6			
	6		8	
	5			
	3			
	3			
572.30	50/3"		18	
				Borehole continued with rock coring.
-45				
-50				
-55				
-60				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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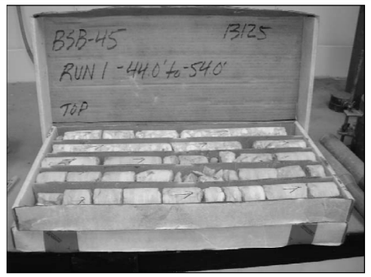
ROCK CORE LOG

PAGE 1 of 2
DATE 4/24/2014
LOGGED BY JK
GSI JOB No. 13125

ROUTE — DESCRIPTION I-80 Reconstruction (Near Term Phase 2)
SECTION — LOCATION SEC 14, T35N, R10E, SW1/4
COUNTY Will CORING METHOD Rotary Wash
STRUCT. NO. — CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station — Core Diameter 2.0 in
BORING NO. BSB-45 Top of Rock Elev. 576.1
Station 763+16 Begin Core Elev. 572.3
Offset 53.1' Right
Ground Surface Elev. 616.30

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)	
	1	96.7	13.3	n/a	593 ● -48.3'	RUN 1 (−44.0' to −54.0') (−44.0 to −47.8') CONCRETE (−47.8' to −54.0') SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray to gray with horizontal bedding. Weathered with rust staining. Numerous horizontal fractures throughout.
-49						
-54						



Color pictures of the cores Yes Cores will be stored for examination for —
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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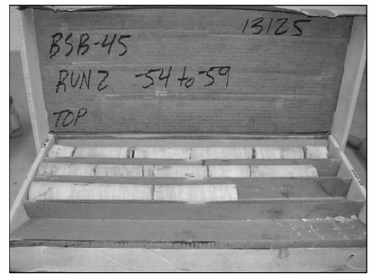
ROCK CORE LOG

PAGE 2 of 2
DATE 4/24/2014
LOGGED BY JK
GSI JOB No. 13125

ROUTE — DESCRIPTION I-80 Reconstruction (Near Term Phase 2)
SECTION — LOCATION SEC 14, T35N, R10E, SW1/4
COUNTY Will CORING METHOD Rotary Wash
STRUCT. NO. — CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station — Core Diameter 2.0 in
BORING NO. BSB-45 Top of Rock Elev. 576.1
Station 763+16 Begin Core Elev. 572.3
Offset 53.1' Right
Ground Surface Elev. 616.30

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)	
	2	100.0	64.0	n/a	946 ● -54.5'	SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE RUN 2 (−54.0' to −59.0') Light gray to gray with horizontal bedding. Some horizontal fractures throughout.
-59						



Color pictures of the cores Yes Cores will be stored for examination for —
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

HBP Illinois Partners	USER NAME = default	DESIGNED -	REVISED
		CHECKED -	REVISED
	PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED
	PLOT DATE = 6/26/2020	CHECKED - DF	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS VI
STRUCTURE NO. 099-0904
SHEET NO. 62 OF 65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	412
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 11/1/13

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. BSB-47
Station 764+65
Offset 7.20ft Right
Ground Surface Elev. 582.81 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to 10.5' ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
582.31 6.0" ASPHALT			
CRUSHED STONE-dense (Fill)	6		
	15		7
	16		
579.81 CLAY LOAM-brown-very stiff (Apparent Fill)	4		
	5	3.3	19
-5	7	B	
577.31 SANDY CLAY LOAM with GRAVEL-brown-medium dense	6		
	7		6
	15		
574.31 FRACTURED ROCK with GRAVEL-brown & gray-very dense	50/2"		
-10			7
571.81 Borehole continued with rock coring.			
-15			
-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\13125 IHNTB, I-80 PHASE II (NEAR TERM)\13125 BORING LOGS\13125_LOG.GPJ 7/3/14

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

ROCK CORE LOG

PAGE 1 of 1
DATE November 1, 2013
LOGGED BY JK
GSI JOB No. 13125

ROUTE --
SECTION --
COUNTY Will
STRUCT. NO. --
Station --
BORING NO. BSB-47
Station 764+65
Offset 7.20' Right
Ground Surface Elev. 582.81

DESCRIPTION I-80 Reconstruction (Near Term Phase 2)
LOCATION SEC 14, T35N, R10E, SW 1/4, 3rd PM
CORING METHOD Rotary Wash
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 571.8
Begin Core Elev. 571.8

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE					
RUN 1 (-11.0' to -21.0')	1	100.0	43.0	n/a	566 @ -15.7
Light gray to gray, fine grained with horizontal to wavy bedding. Numerous horizontal fractures throughout numerous some chert replacement nodules.					
-16					
-21					

Color pictures of the cores Yes Cores will be stored for examination for --
The "Strength" column represents the unlaxial compressive strength of the core sample (ASTM D-2938)

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SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 11/4/13

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. BSB-49
Station 764+48
Offset 62.00ft Right
Ground Surface Elev. 583.64 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to 8.5' ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
583.02			
CRUSHED STONE-dense (Fill)	21		
	19		5
	7		
580.64 SANDY CLAY LOAM-brown-medium dense (Fill)	6		
	7		14
-5	9		
578.14 CLAY LOAM-gray-very stiff	8		
	10	3.3	15
	11	B	
575.14 Drillers Observation: Apparent Bedrock			
573.64 -10 Borehole continued with rock coring.			
-15			
-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\13125 IHNTB, I-80 PHASE II (NEAR TERM)\13125 BORING LOGS\13125_LOG.GPJ 7/3/14

HBP Illinois Partners	USER NAME = default	DESIGNED -	REVISED
		CHECKED -	REVISED
	PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED
	PLOT DATE = 6/26/2020	CHECKED - DF	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS VII
STRUCTURE NO. 099-0904
SHEET NO. 63 OF 65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	413
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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ROCK CORE LOG

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Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

PAGE 1 of 1
DATE November 4, 2013
LOGGED BY JK
GSI JOB No. 13125

ROUTE --
DESCRIPTION I-80 Reconstruction (Near Term Phase 2)
SECTION --
LOCATION SEC 14, T35N, R10E, SW 1/4, 3rd PM
COUNTY Will
CORING METHOD Rotary Wash
STRUCT. NO. --
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station --
Core Diameter 2.0 in
BORING NO. **BSB-49**
Top of Rock Elev. 575.1
Station 764+48
Begin Core Elev. 573.6
Offset 62.0' Right
Ground Surface Elev. 583.64

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE RUN 1 (−10.0' to −20.0') Light gray to gray with horizontal to wavy bedding. Numerous horizontal fractures & chert replacement nodules throughout.	1	100.0	60.0	n/a	564 ● −13.2
−15					
−20					

Color pictures of the cores Yes Cores will be stored for examination for --
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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SOIL BORING LOG

GSI Job No. 13125
Page 1 of 2
Date 4/1/14

ROUTE F.A.I RTE. 80
DESCRIPTION I-80 Phase II (Near Term)
LOGGED BY NW
SECTION
LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will
DRILLING METHOD Hollow Stem Auger/Rotary
HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. BSB-51
Station 765+96
Offset 26.40ft Right
Ground Surface Elev. 623.63 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" ASPHALT 622.80			
CLAY to CLAY LOAM-brown & gray-stiff to hard (Fill)	3		
	2		21
	2		
	3		
	4	1.0	23
-5	6	P	
	4		
	5	2.3	28
	6	B	
	5		
	9	3.7	23
-10	8	B	
	3		
	4	1.5	31
	4	B	
	6		
	9	2.6	21
-15	10	B	
	7		
	10	5.7	18
	14	B	
	6		
	6	3.5	21
-20	9	D	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY to CLAY LOAM-brown & gray-stiff to hard (Fill) *(continued)*			
	6		
	9	2.8	20
	13	B	
	9		
	9	4.5	18
-25	13	P	
	7		
	9	2.8	22
	10	B	
	9		
	7	3.0	19
-30	8	B	
	5		
	10		29
-35	14		
586.63 SANDY CLAY LOAM-brown & gray-medium dense (Apparent Fill)			
	8		
	7	3.0	18
-40	10	P	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\13125 INTRL I-80 PHASE II (NEAR TERM)\13125 BORING LOGS\13125_LOG.GPJ 7/3/14

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(630) 355-2838

SOIL BORING LOG

GSI Job No. 13125
Page 2 of 2
Date 4/1/14

ROUTE F.A.I RTE. 80
DESCRIPTION I-80 Phase II (Near Term)
LOGGED BY NW
SECTION
LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will
DRILLING METHOD Hollow Stem Auger/Rotary
HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. BSB-51
Station 765+96
Offset 26.40ft Right
Ground Surface Elev. 623.63 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY CLAY LOAM-brown & gray-medium dense (Apparent Fill) *(continued)*			
581.63 CLAY LOAM w/ Gravel-brown-stiff (Apparent Fill)			
	3		
	8		16
-45	9		
576.63 Drillers Observation: Apparent Bedrock			
575.13 Borehole continued with rock coring.			
-50			
-55			
-60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS VIII
STRUCTURE NO. 099-0904
SHEET NO. 64 OF 65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	414
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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Naperville, Illinois 60565
(630) 355-2838

ROCK CORE LOG

PAGE 1 of 1
DATE 4/1/2014
LOGGED BY JK
GSI JOB No. 13125

ROUTE --
DESCRIPTION I-80 Reconstruction (Near Term Phase 2)
SECTION --
LOCATION SEC 14, T35N, R10E, SW 1/4, 3rd PM
COUNTY Will
CORING METHOD Rotary Wash
STRUCT. NO. --
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station --
Core Diameter 2.0 in
BORING NO. **BSB-51**
Top of Rock Elev. 576.6
Station 765+96
Begin Core Elev. 575.1
Offset 26.4' Right
Ground Surface Elev. 623.63

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
	1	100.0	34.0	n/a	900 @ -48.9'
-53.5					
-58.5					

SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE
RUN 1 (-48.5' to -58.5')
Light gray to gray with horizontal to wavy bedding. Weathered & cherty with numerous horizontal fractures throughout.

Color pictures of the cores Yes Cores will be stored for examination for --
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

HBP Illinois Partners	USER NAME = default	DESIGNED -	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS IX STRUCTURE NO. 099-0904
		CHECKED -	REVISED		
	PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED		SHEET NO. 65 OF 65 SHEETS
	PLOT DATE = 6/26/2020	CHECKED - DF	REVISED		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	415
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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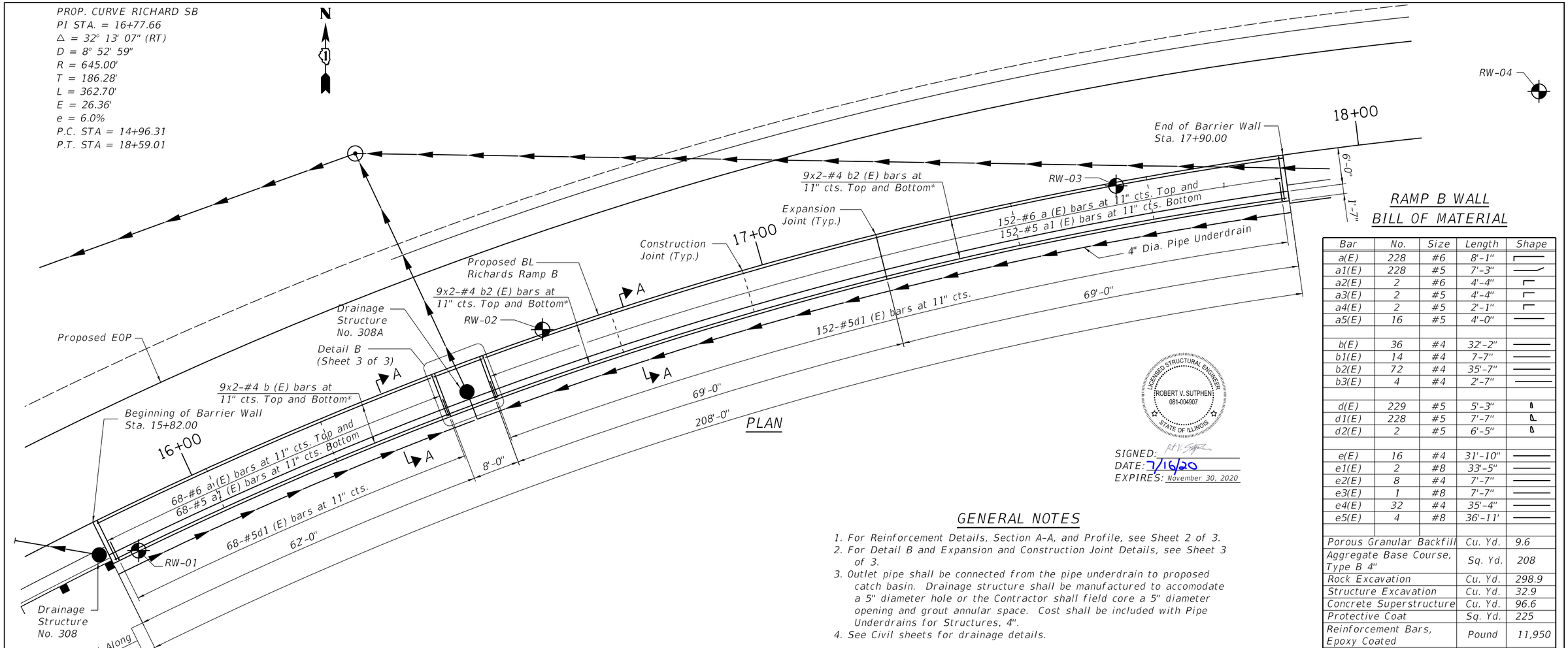
PROP. CURVE RICHARD SB
PI STA. = 16+77.66
△ = 32° 13' 07" (RT)
D = 8° 52' 59"
R = 645.00'
T = 186.28'
L = 362.70'
E = 26.36'
e = 6.0%
P.C. STA = 14+96.31
P.T. STA = 18+59.01



RAMP B WALL BILL OF MATERIAL

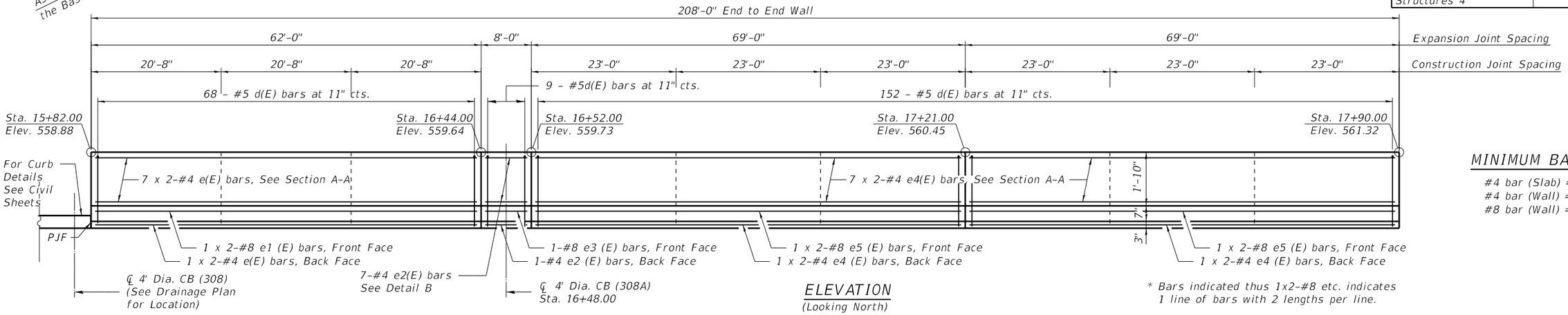
Bar	No.	Size	Length	Shape
a(E)	228	#6	8'-1"	
a1(E)	228	#5	7'-3"	
a2(E)	2	#6	4'-4"	
a3(E)	2	#5	4'-4"	
a4(E)	2	#5	2'-1"	
a5(E)	16	#5	4'-0"	
b(E)	36	#4	32'-2"	
b1(E)	14	#4	7'-7"	
b2(E)	72	#4	35'-7"	
b3(E)	4	#4	2'-7"	
d(E)	229	#5	5'-3"	
d1(E)	228	#5	7'-7"	
d2(E)	2	#5	6'-5"	
e(E)	16	#4	31'-10"	
e1(E)	2	#8	33'-5"	
e2(E)	8	#4	7'-7"	
e3(E)	1	#8	7'-7"	
e4(E)	32	#4	35'-4"	
e5(E)	4	#8	36'-11'	
Porous Granular Backfill		Cu. Yd.	9.6	
Aggregate Base Course, Type B 4"		Sq. Yd.	208	
Rock Excavation		Cu. Yd.	298.9	
Structure Excavation		Cu. Yd.	32.9	
Concrete Superstructure		Cu. Yd.	96.6	
Protective Coat		Sq. Yd.	225	
Reinforcement Bars, Epoxy Coated		Pound	11,950	
Geocomposite Wall Drain		Sq. Yd.	52	
Pipe Underdrains for Structures 4"		Foot	208	

LICENSED STRUCTURAL ENGINEER
ROBERT V. SUTPHEN
081-004907
STATE OF ILLINOIS

SIGNED: R.V. Sutphen
DATE: 7/16/20
EXPIRES: November 30, 2020

GENERAL NOTES

1. For Reinforcement Details, Section A-A, and Profile, see Sheet 2 of 3.
2. For Detail B and Expansion and Construction Joint Details, see Sheet 3 of 3.
3. Outlet pipe shall be connected from the pipe underdrain to proposed catch basin. Drainage structure shall be manufactured to accomodate a 5" diameter hole or the Contractor shall field core a 5" diameter opening and grout annular space. Cost shall be included with Pipe Underdrains for Structures, 4".
4. See Civil sheets for drainage details.



ELEVATION
(Looking North)

* Bars indicated thus 1x2-#8 etc. indicates 1 line of bars with 2 lengths per line.

MINIMUM BAR LAP

#4 bar (Slab) = 2'-7"
#4 bar (Wall) = 2'-0"
#8 bar (Wall) = 5'-2"

FILE NAME:
7/16/2020 3:33:56 PM

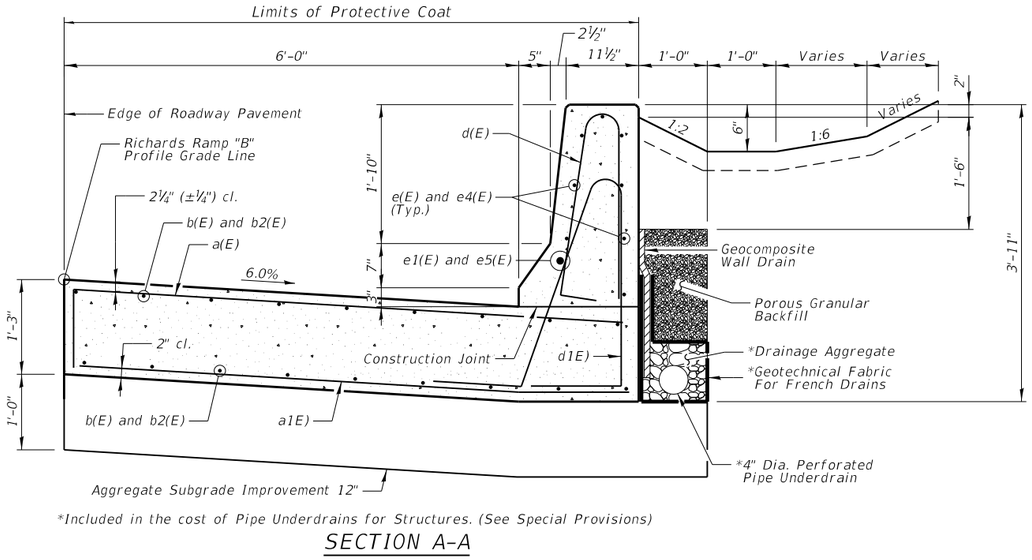
DBS STERLIN CONSULTANTS, INC.
223 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1056

USER NAME =	DESIGNED - NPH	REVISED -	
	CHECKED - WPK	REVISED -	
PLOT SCALE =	DRAWN - GJS	REVISED -	
PLOT DATE =	CHECKED - WPK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

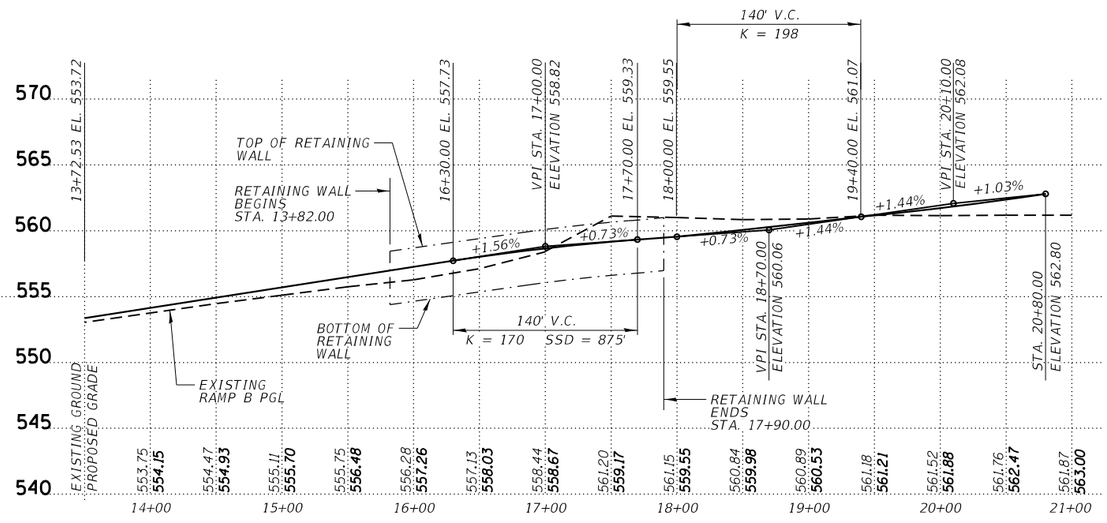
EB I-80 FROM GARDNER STREET TO ROWELL AVENUE
RICHARDS RAMP B - GENERAL PLAN AND ELEVATION
SHEET 1 OF 3 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	416
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



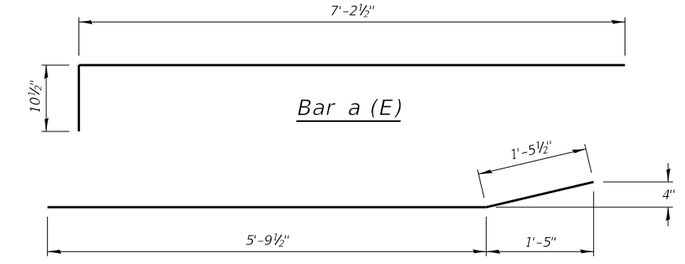
*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

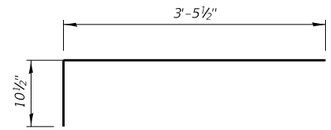
SECTION A-A

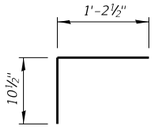


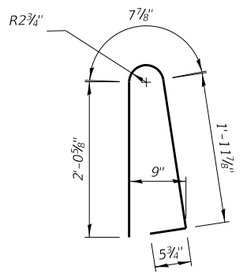
PROFILE

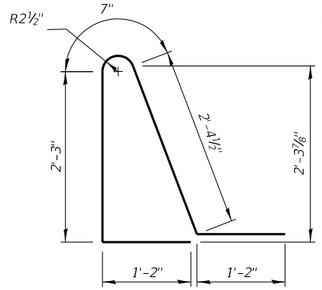
(STA. 14+00 tto STA. 21+00)

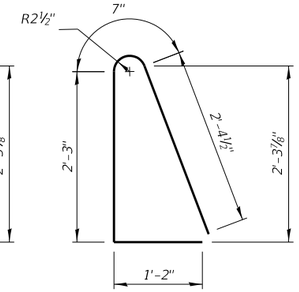












BENT BAR DETAILS

NOTES:

1. See Civil Sheets for full vertical profile data.

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1056

USER NAME =	DESIGNED - NPH	REVISED -	
	CHECKED - WPK	REVISED -	
PLOT SCALE =	DRAWN - GJS	REVISED -	
PLOT DATE =	CHECKED - WPK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB I-80 FROM GARDNER STREET TO ROWELL AVENUE
RICHARDS RAMP B - BARRIER WALL DETAILS I

SHEET 2 OF 3 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	417
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

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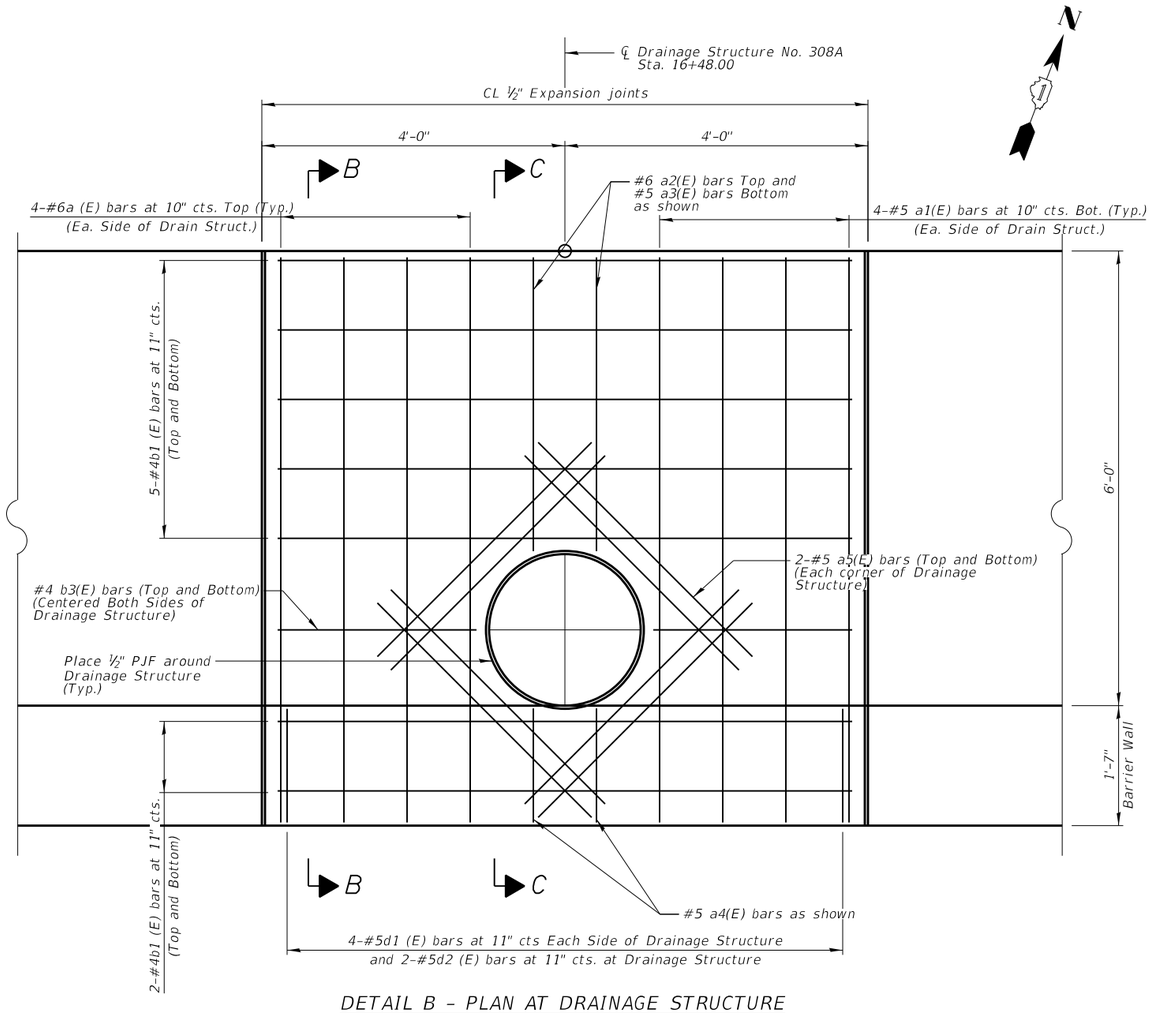
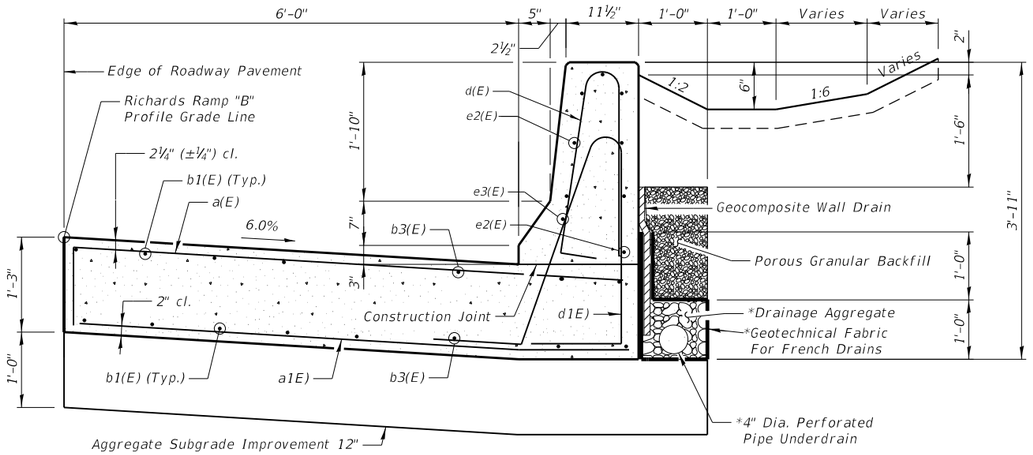
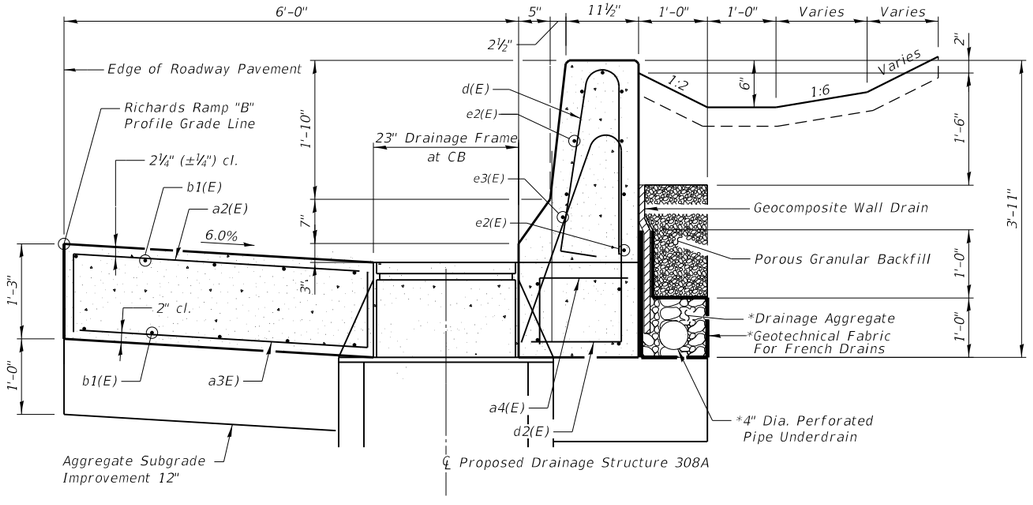


DETAIL B – PLAN AT DRAINAGE STRUCTURE



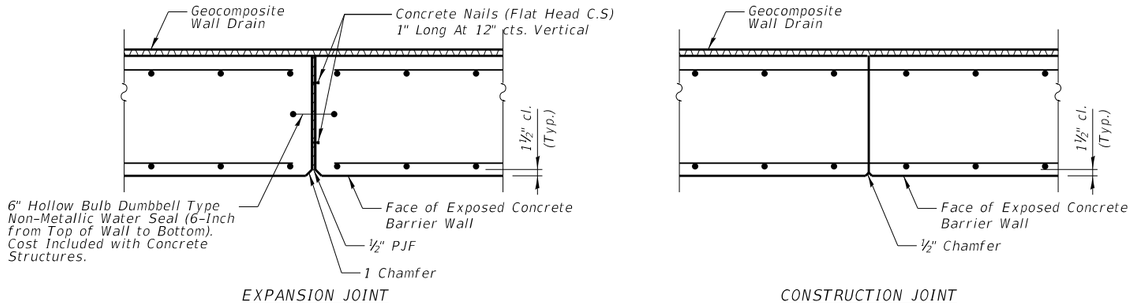
*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

SECTION B-B



*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

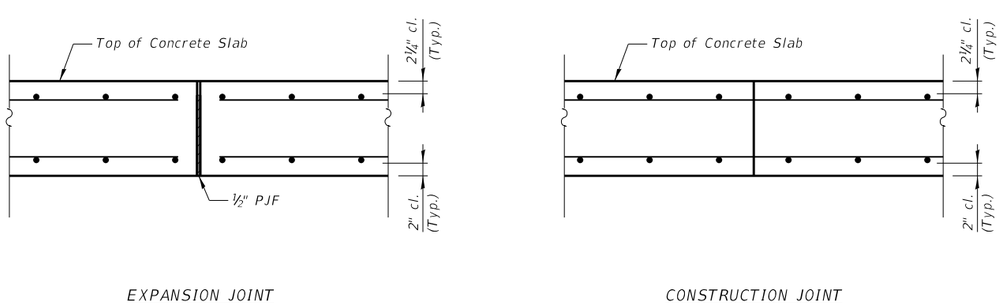
SECTION C-C



EXPANSION JOINT

CONSTRUCTION JOINT

BARRIER WALL JOINT DETAILS



EXPANSION JOINT

CONSTRUCTION JOINT

SLAB JOINT DETAILS

DB STERLIN CONSULTANTS, INC. 123 N. WACKER DRIVE SUITE 2000 CHICAGO, ILLINOIS 60606 TEL: (312)857-1006 FAX: (312)857-1056	USER NAME =	DESIGNED - NPH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EB I-80 FROM GARDNER STREET TO ROWELL AVENUE RICHARDS RAMP B - BARRIER WALL DETAILS II SHEET 3 OF 3 SHEETS
		CHECKED - WPK	REVISED -		
	PLOT SCALE =	DRAWN - GJS	REVISED -		
	PLOT DATE =	CHECKED - WPK	REVISED -		

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	418
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

FILE NAME:

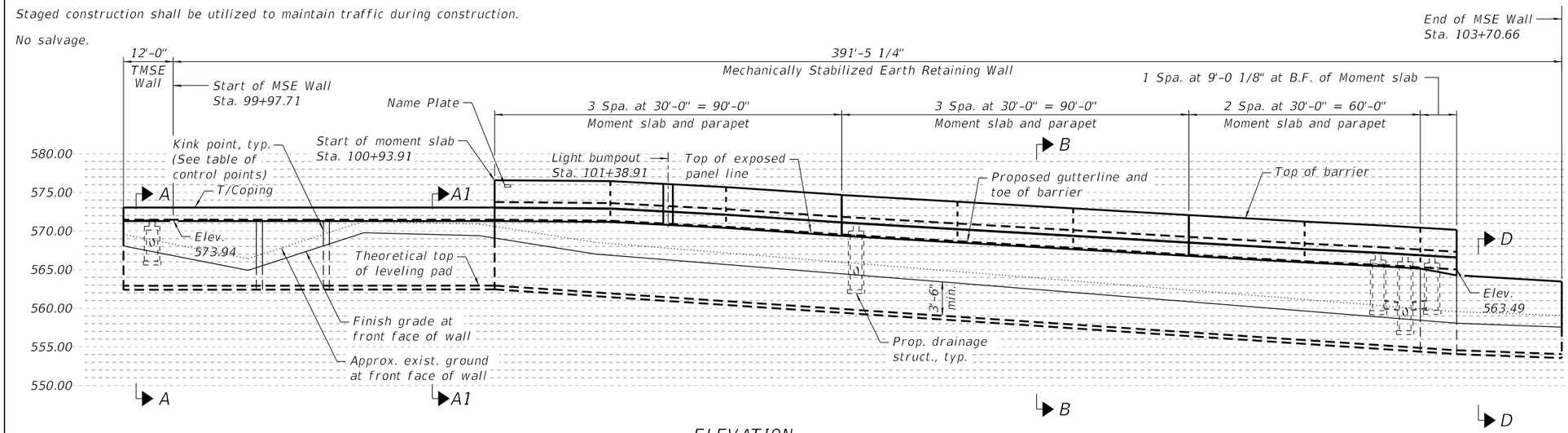
7/7/2020 7:13:37 AM

Bench Mark: Square cut on middle step of S.E. wingwall of bridge over Richards WB roadway. Elev. = 558.98

Existing Structure: None

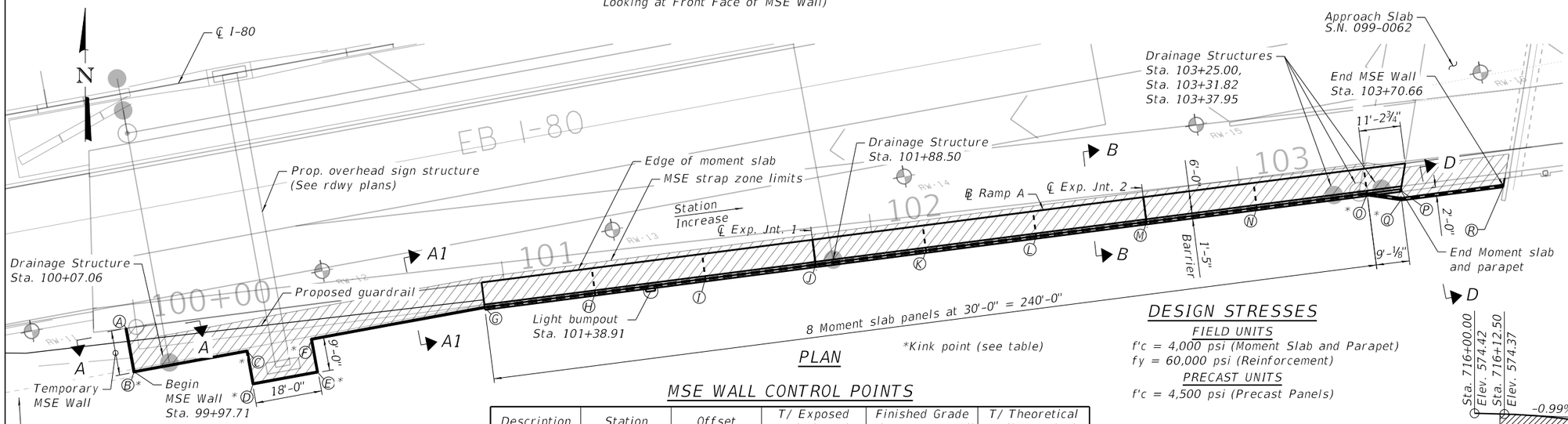
Staged construction shall be utilized to maintain traffic during construction.

No salvage.



ELEVATION

(Shown along ℄ of MSE Wall, Looking at Front Face of MSE Wall)



PLAN

*Kink point (see table)

MOMENT SLAB CONTROL POINTS

Description	Station	Offset	Elev. @ Toe of Barrier
Point G	100+93.91	6.00 Rt.	572.98
Point H	101+23.91	6.00 Rt.	572.17
Point I	101+53.91	6.00 Rt.	571.31
Point J	101+83.91	6.00 Rt.	570.44
Point K	102+13.91	6.00 Rt.	569.57
Point L	102+43.91	6.00 Rt.	568.69
Point M	102+73.91	6.00 Rt.	567.82
Point N	103+03.91	6.00 Rt.	566.98
Point O	103+33.91	6.00 Rt.	566.18
Point P	103+43.34	6.00 Rt.	566.02

MSE WALL CONTROL POINTS

Description	Station	Offset	T/ Exposed Panel Line Elev	Finished Grade Elev @ F.F. Wall	T/ Theoretical Leveling Pad Elev
Point A	99+97.06	0.00 Rt.	573.94	568.07	564.57
* Point B	99+97.71	12.06 Rt.	**573.94	568.00	564.50
* Point C	100+28.66	10.40 Rt.	**573.34	569.40	565.90
* Point D	100+29.14	19.39 Rt.	**573.34	566.50	563.00
* Point E	100+47.12	18.43 Rt.	**573.34	566.50	563.00
* Point F	100+46.64	9.13 Rt.	**572.95	569.40	565.90
Point G	100+93.91	6.92 Rt.	571.36	569.20	565.70
Point H	101+23.91	6.92 Rt.	570.55	567.00	563.50
Point I	101+53.91	6.92 Rt.	569.69	565.77	562.27
Point J	101+83.91	6.92 Rt.	568.82	564.54	561.04
Point K	102+13.91	6.92 Rt.	567.94	563.30	559.80
Point L	102+43.91	6.92 Rt.	567.07	562.07	558.57
Point M	102+73.91	6.92 Rt.	566.20	560.84	557.34
Point N	103+03.91	6.92 Rt.	565.36	559.61	556.11
* Point O	103+33.91	6.92 Rt.	564.56	558.38	554.88
* Point Q	103+42.85	9.42 Rt.	564.28	558.00	554.50
Point R	103+70.66	9.56 Rt.	563.49	557.57	554.07

**Top of Panel Line elevation shown is top of MSE accommodating future Roadway widening. Top of wall elevation includes 6" above future top of exposed panel line.

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi (Moment Slab and Parapet)
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

f'c = 4,500 psi (Precast Panels)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	1,230.4
Concrete Superstructure	Cu. Yd.	132.7
Protective Coat	Sq. Yd.	291
Reinforcement Bars, Epoxy Coated	Pound	19,190
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	3,196
Temporary Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	132

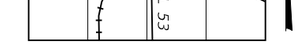
GENERAL NOTES

1. Offsets are measured from ℄ Ramp A to front face of MSE wall panels for MSE Wall Control Points.
2. Offsets and elevations are measured from ℄ Ramp A to proposed gutter line and toe of the barrier for Moment Slab Control Points.
3. Slip forming of parapets will not be allowed.
4. For Section A-A, see Sheet 4 of 6.
5. Wall shall be built during Stage 2 Construction. See MOT plans for details.
6. For section D-D., see Sheet 5 of 6.
7. Reinforcement bars designated (E) shall be epoxy coated.
8. CJ = Construction Joint, EJ = Expansion Joint

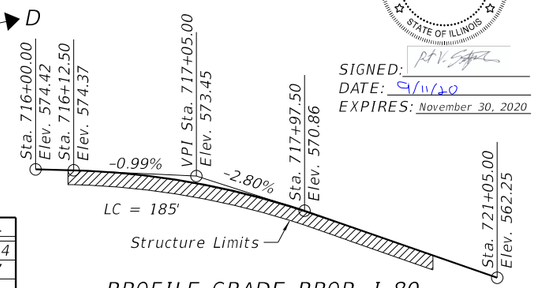
INDEX OF SHEETS

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition



LOCATION SKETCH



PROFILE GRADE PROP. I-80

(Ramp A P.G.L. follows I-80 EB P.G.L.)

LICENSED STRUCTURAL ENGINEER
ROBERT V. SUTPHEN
081-004907
STATE OF ILLINOIS

SIGNED:
DATE: 9/11/20
EXPIRES: November 30, 2020

GENERAL PLAN AND ELEVATION
EB I-80 WALL 1 @ RICHARDS RAMP A
F.A.I. RTE. 80 - SECTION 2013-008B
WILL COUNTY
STATION 99+97.71 TO 103+70.66
STRUCTURE NO. 099-W801

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-5006 FAX: (312)857-1056

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 6 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	419
		CONTRACT NO. 60W34		
		ILLINOIS	FED. AID PROJECT	

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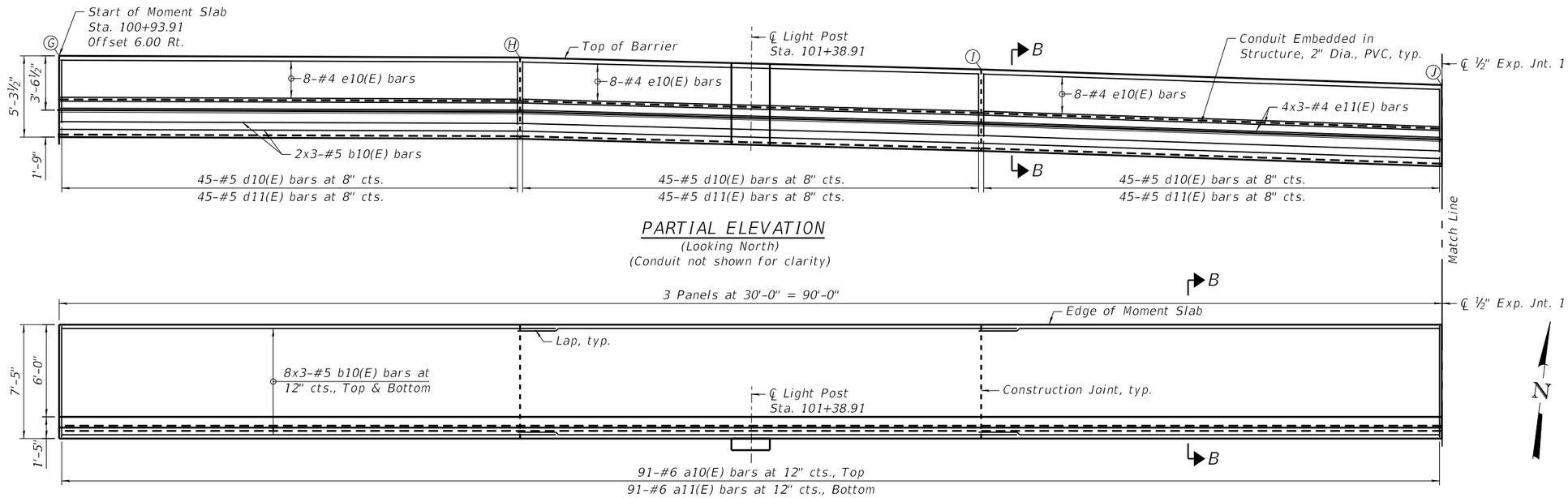
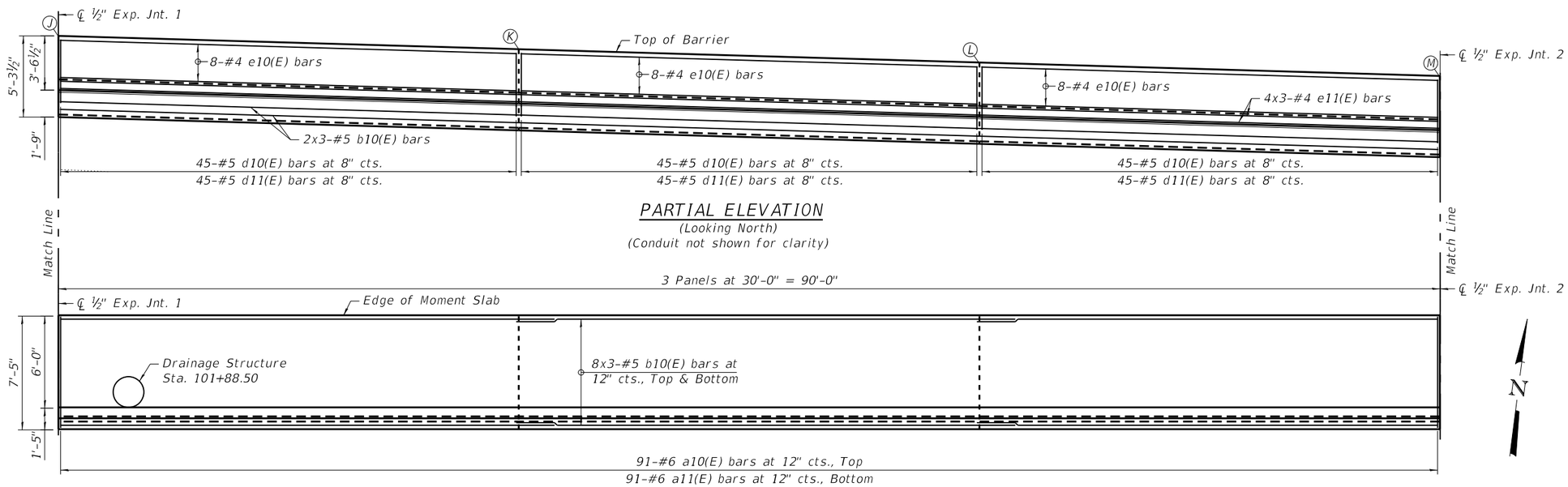


PARTIAL ELEVATION
(Looking North)
(Conduit not shown for clarity)

PARTIAL PLAN
(Conduit not shown for clarity)



PARTIAL ELEVATION
(Looking North)
(Conduit not shown for clarity)

PARTIAL PLAN
(Conduit not shown for clarity)

MIN. LAP LENGTH
#4 Bar = 2'-8"
#5 Bar = 3'-6"

Notes:
1. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bar per line.
2. For control point station, offset, and elevations, see Sheet 1 of 6.
3. For Section B-B. see Sheet 4 of 6.
4. For Reinforcement Bars, Epoxy Coated Bill of Materials, see Sheet 5 of 6.

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1056

USER NAME =	DESIGNED - JMM	REVISED -	
	CHECKED - RVS	REVISED -	
PLOT SCALE =	DRAWN - JMM	REVISED -	
PLOT DATE = 4/9/2020	CHECKED - RVS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL 1 - MOMENT SLAB PLAN AND ELEVATION I
STRUCTURE NO. 099-W801
SHEET 2 OF 6 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	420
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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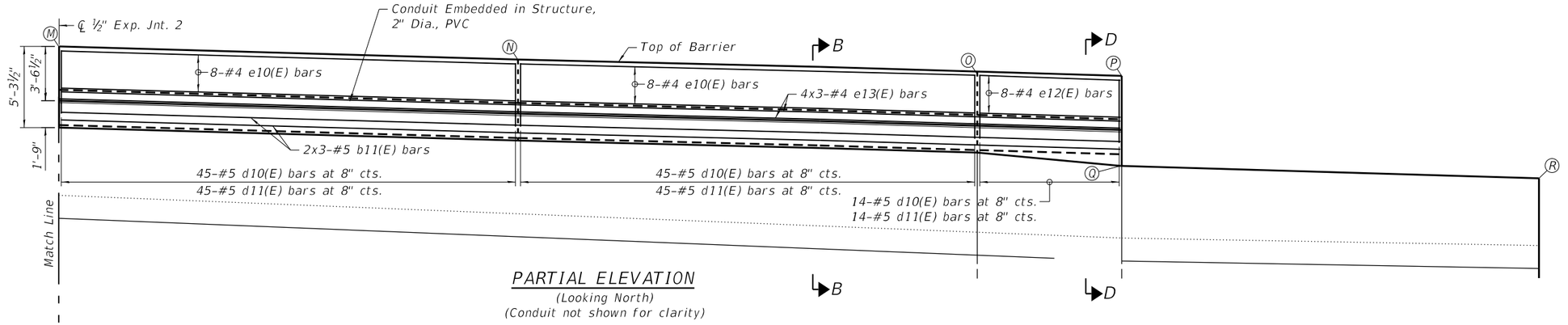
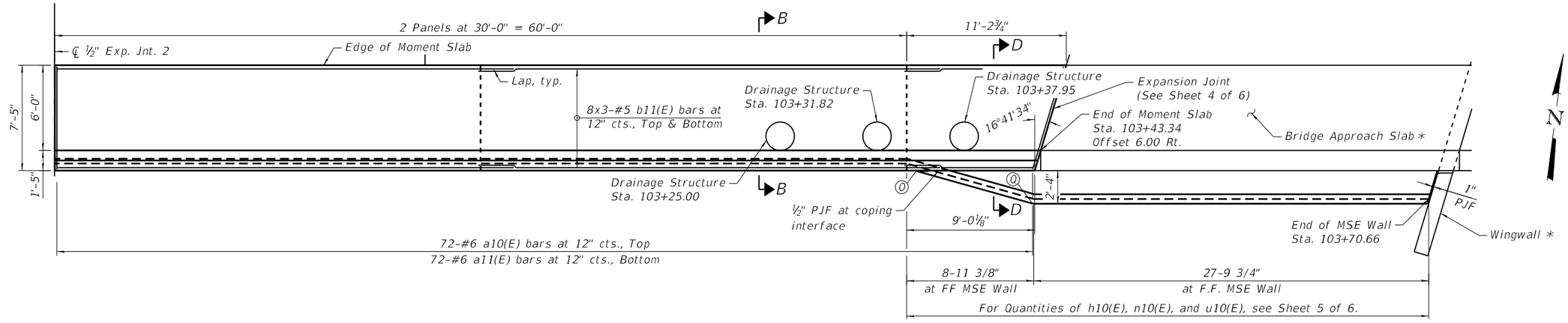


PARTIAL ELEVATION

(Looking North)
(Conduit not shown for clarity)



PARTIAL PLAN

(Conduit not shown for clarity)

Fan a10(E) and a11(E) bars at end of moment slab, as required. Min. spa. 2", max. spa. 12"
Bend h10(E) bars in coping at jogs, as required.

* See design plans for SN. 099-062 for more information

MIN. LAP LENGTH

#4 Bar = 2'-8"
#5 Bar = 3'-6"

Notes:
1. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bar per line.
2. For control point station, offset, and elevations, see Sheet 1 of 6.
3. For Section B-B, see Sheet 4 of 6.
4. For Section D-D and Reinforcement Bars, Epoxy Coated Bill of Materials, see Sheet 5 of 6.
5. Contractor shall coordinate the installation of the MSE Wall adjacent to the bridge piles at the abutment so as not to damage the soil reinforcement. See design plans for proposed bridge SN. 009-0062 for more information.
6. F.F. = Front Face

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1066

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	CHECKED - RVS	REVISED -	
PLOT SCALE =	DRAWN - JMM	REVISED -	
PLOT DATE = 4/9/2020	CHECKED - RVS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL 1 - MOMENT SLAB PLAN AND ELEVATION II
STRUCTURE NO. 099-W801
SHEET 3 OF 6 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

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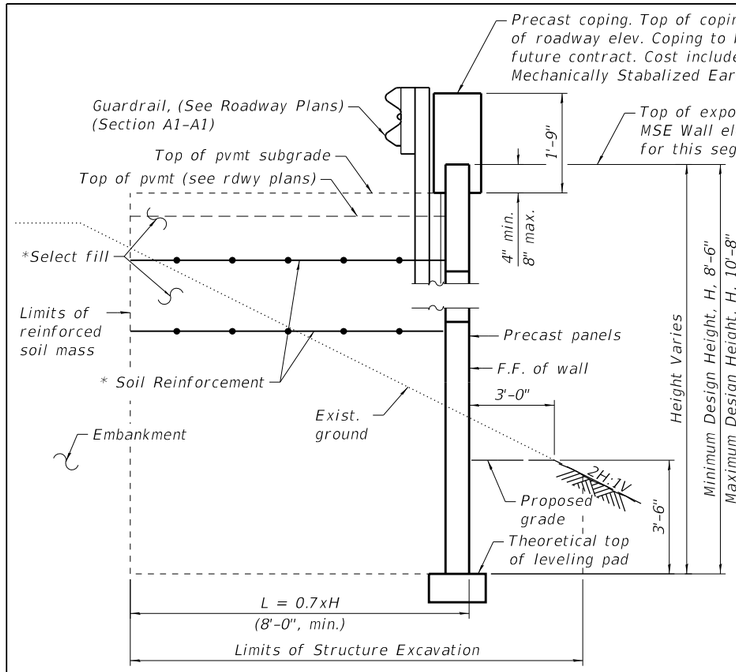
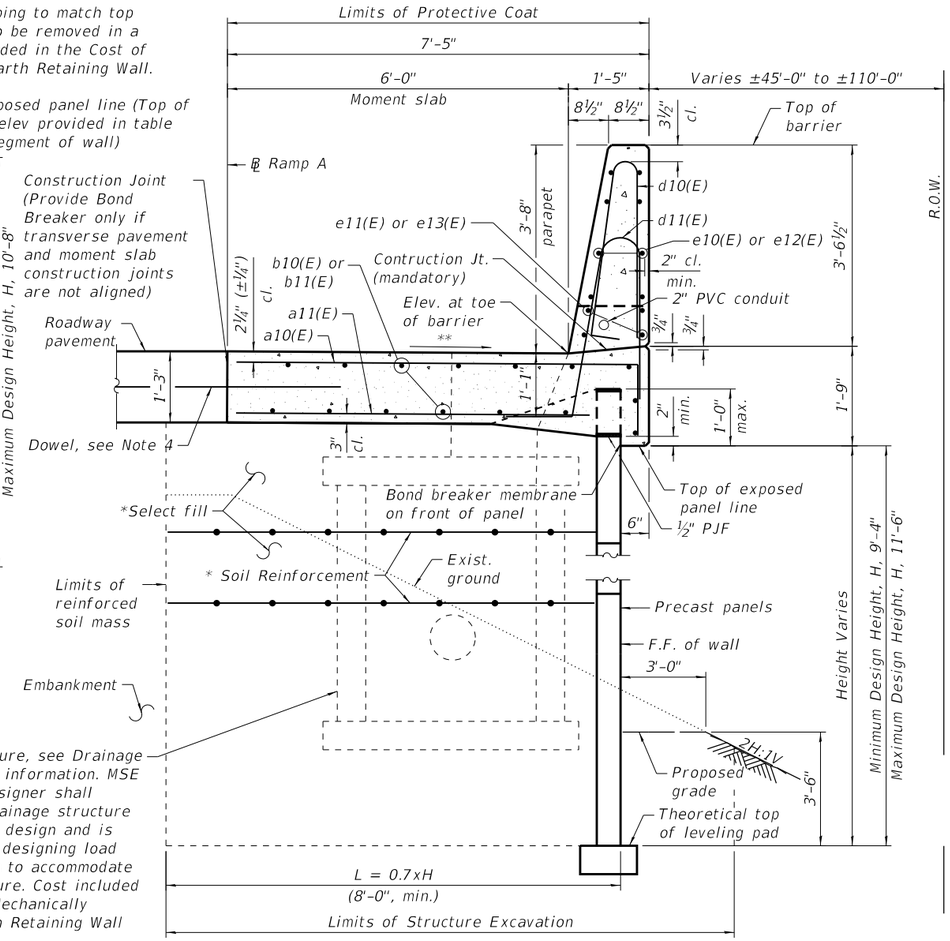


SECTION A-A & A1-A1

* The M.S.E. wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft. of wall.

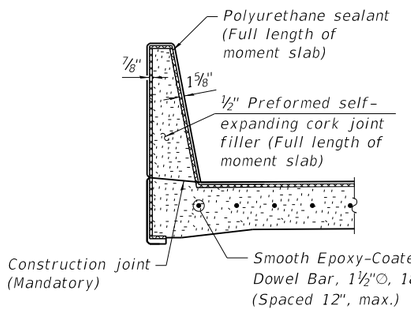
** Shoulder slope varies from max. 4% to min. 2%. See Roadway Plans.



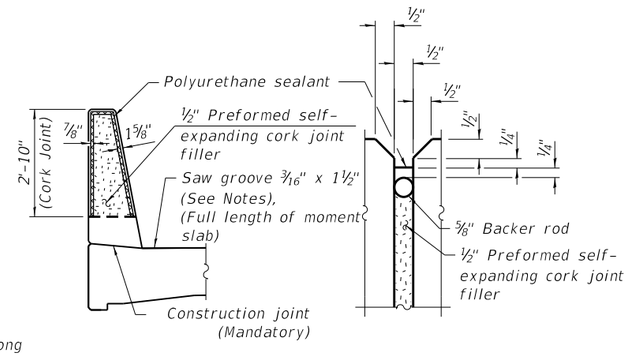
SECTION B-B

Drainage Structure, see Drainage Plans for addt'l information. MSE Wall Suplier/Designer shall accommodate drainage structure in the MSE wall design and is responsible for designing load transfer system to accommodate drainage structure. Cost included in the cost of Mechanically Stabilized Earth Retaining Wall

Notes:
1. The polyurethane sealant shall be according to Article 1050.04 of the Standard Specifications and color shall be gray.
2. The saw groove shall use a hot poured joint sealer per Article 1050.02 of the Standard Specifications.
3. For Reinforcement Bars, Epoxy Coated Bill of Material, see Sheet 5 of 6.
4. #6 (E) 4'-0" long dowel bars shall be placed at mid-depth of moment slab at a maximum of 3'-0" plan spacing. If dowel bar aligns within 1'-6" of a pavement joint, the dowel bar shall be repositioned such that it is placed at a minimum of 1'-6" from either side of the pavement joint. Cost for dowel bars shall be included with Reinforcement Bars, Epoxy Coated.



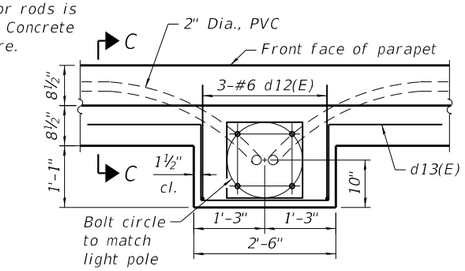
EXPANSION JOINT



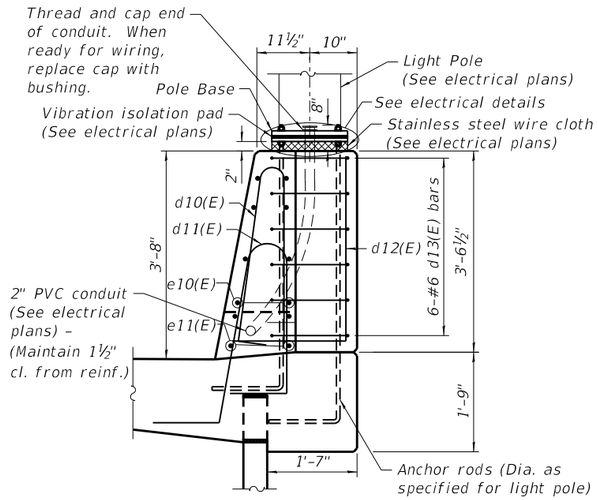
CONSTRUCTION JOINT

TRANSVERSE JOINT DETAILS

Note:
Cost of anchor rods is included with Concrete Superstructure.

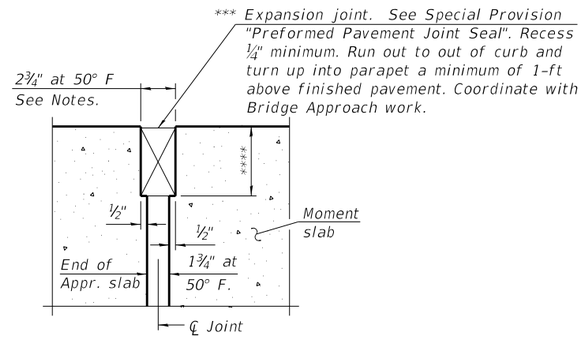


LIGHT POLE BUMPOUT PLAN



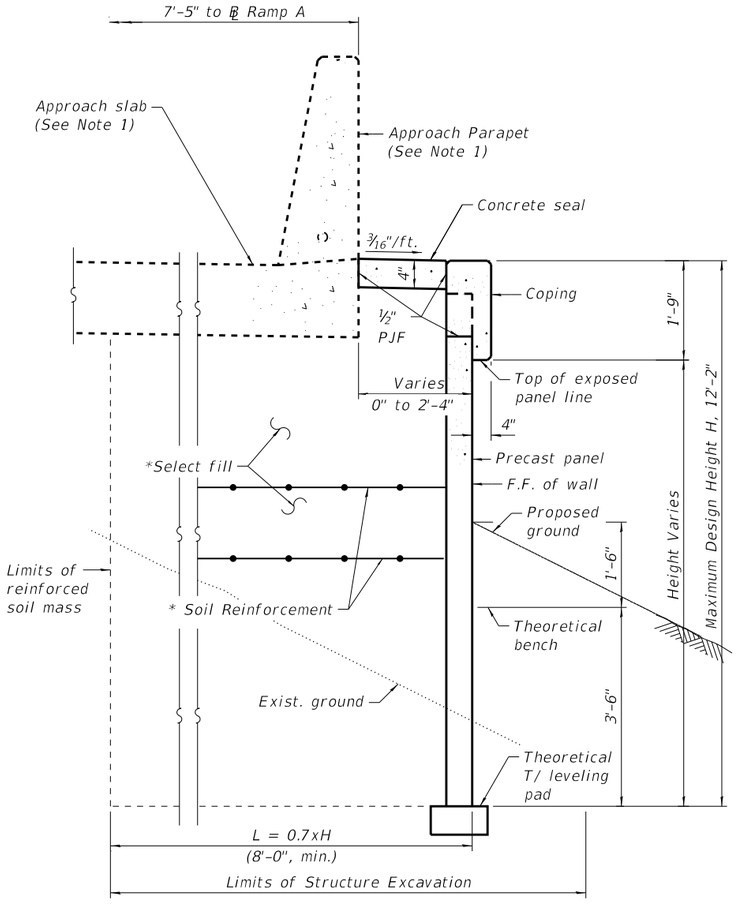
SECTION C-C

See Section B-B for reinforcement in moment slab.



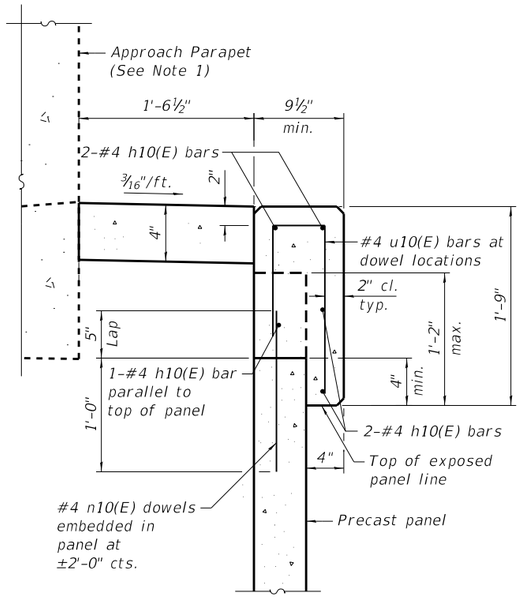
JOINT DETAIL AT APPROACH SLAB AND MOMENT SLAB

*** Cost included with Concrete Superstructure
**** Per manufacturer recommendations



* For single asterisk note, see Sheet 4 of 6.

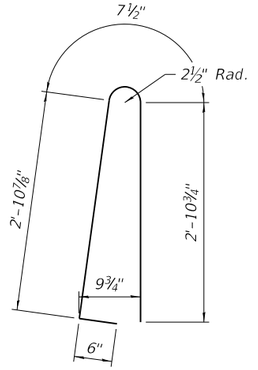
SECTION D-D



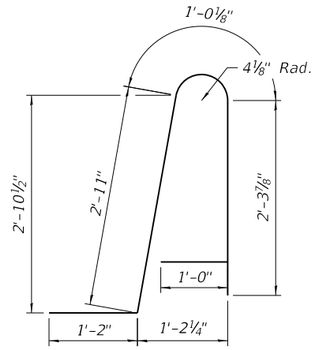
COPING DETAIL

All elements in Coping Detail shall be included in the Cost of MSE Retaining Wall.

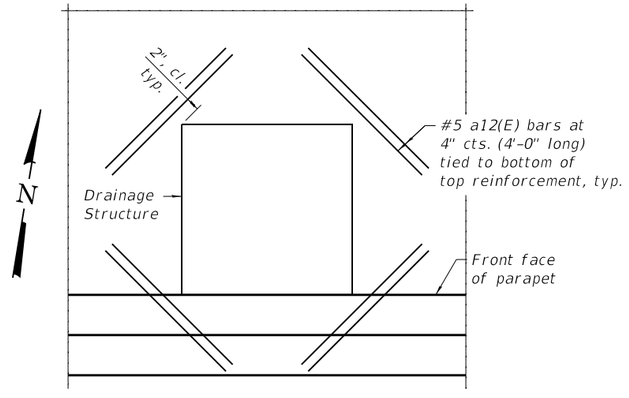
BAR a10(E)



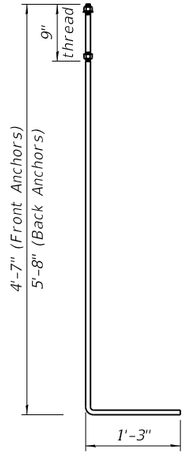
BAR d10(E)



BAR d11(E)



ADDITIONAL REINFORCEEMNT AT DRAINAGE STRUCTURES PLAN



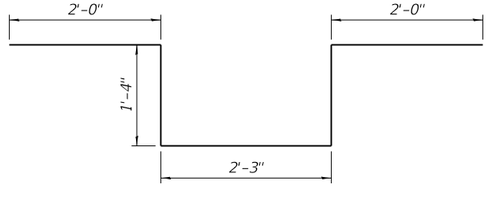
ANCHOR ROD

Diameter as specified for light poles. (ASTM F 1554 Grade 105) Full length hot dipped galvanized. Provide 3 flat washers, 1 isolation washer, 1 regular nut, and 1 locknut for each rod.

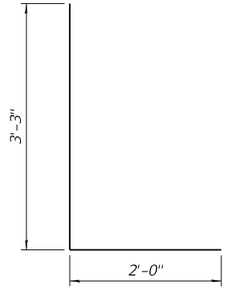
Notes:

1. *Approach slab and parapet included with I-80 over Hickory Creek Bridge Plans (SN-099-0062) included elsewhere in the plan set. See bridge plans for additional details.*

2. *The Concrete Seal shall be installed according to Articles 511.02, 511..03 and 511.04 of the Standard Specifications. The cost of Concrete Seal shall be included in the cost of Mechanically Stabilized Earth Retaining Wall.*



BAR d13(E)



BAR d12(E)

STATION 99+97.71 TO 103+70.66
BUILT BY
STATE OF ILLINOIS
F.A.I. RT. 80 SEC. 2013-008B
LOADING HL-93
STRUCTURE NO. 099-W801

NAME PLATE

See Std. 515001

WALL 1
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	254	#6	8'-2"	
a11(E)	254	#6	6'-7"	
a12(E)	24	#5	4'-0"	
b10(E)	108	#5	33'-3"	
b11(E)	54	#5	26'-11"	
d10(E)	374	#5	7'-0"	
d11(E)	374	#5	8'-5"	
d12(E)	3	#6	5'-3"	
d13(E)	6	#6	8'-11"	
e10(E)	64	#4	30'-4"	
e11(E)	24	#4	32'-4"	
e12(E)	8	#4	9'-5"	
e13(E)	12	#4	26'-0"	
Concrete Superstructure			Cu. Yd.	132.7
Reinforcement Bars, Epoxy Coated			Pound	19,190

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1056

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL 1 - MOMENT SLAB DETAILS II
STRUCTURE NO. 099-W801
SHEET 5 OF 6 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	423
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

FILE NAME:
9/28/2020 9:55:19 AM

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 305-9388

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/17/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-11
Station 715+85
Offset 58.50ft Right
Ground Surface Elev. 574.49 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	2		
	3	1.5	17
	7	P	
	2		
	3	1.6	16
-5	3	B	
	4		
	5	3.0	19
	7	P	
	3		
	4	2.0	17
-10	4	P	
	3		
	4	2.5	24
	5	P	
	4		
	6	1.0	18
-15	8	P	
	4		
	5	2.0	19
	8	P	
	4		
	7	1.5	19
-20	9	P	

3.0" ASPHALT, 12.0" CONCRETE 574.08
CLAY LOAM-brown & gray-medium stiff to very stiff (Fill)

End Of Boring @ -40.0'. Boring backfilled with cuttings. 534.49

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	4		
	5	1.0	21
	6	P	
	4		
	5	0.5	16
-25	5	P	
	5		
	7	0.5	18
	8	P	
	6		
	8	1.5	16
-30	9	P	
	10		
	7		15
-35	12		
	9		
	12	1.3	15
-40	14	B	

CLAY LOAM-brown & gray-medium stiff to very stiff (Fill) *(continued)*

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\13125 HNTB, I-80 PHASE II (NEAR TERM)\13125 BORING LOGS\13125_LOG.GPJ 4/4/20

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 305-9388

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/18/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-12
Station 716+65
Offset 56.70ft Right
Ground Surface Elev. 573.17 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	3		
	4	3.5	2
	5	P	
	3		
	4	3.5	21
-5	6	P	
	5		
	6	2.3	19
	24	B	
	3		
	4	2.5	16
-10	6	P	
	16		
	1	1.5	20
	5	P	
	3		
	4	2.0	20
-15	5	P	
	4		
	5	2.0	17
	8	P	
	3		
	5	2.5	18
-20	7	P	

12.0" ASPHALT, 12.0" CRUSHED STONE 571.17
CLAY LOAM-brown & gray-stiff to very stiff (Fill)

End Of Boring @ -40.0'. Boring backfilled with cuttings. 533.17

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	3		
	4	2.5	18
	6	P	
	4		
	6	3.0	18
-25	7	P	
	5		
	6	2.5	16
	11	P	
	8		
	6	3.0	15
-30	5	P	
	8		
	10		15
-35	11		
	6		
	8	3.0	17
-40	8	P	

CLAY LOAM-brown & gray-stiff to very stiff (Fill) *(continued)*

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\13125 HNTB, I-80 PHASE II (NEAR TERM)\13125 BORING LOGS\13125_LOG.GPJ 4/4/20

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 305-9388

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/18/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-13
Station 717+44
Offset 59.90ft Right
Ground Surface Elev. 571.62 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	15		
	6		
569.62			
	10		
	5		
	3		
	8	4.5	
-5	9	P	
	5		
	6		
	9	4.5	
	10	P	
	3		
	5		
-10	7		
	3		
	4	1.5	
	6	P	
	3		
	4	1.5	
-15	4	P	
	3		
	4	3.0	
	5	P	
	1		
	2	0.5	
-20	4	P	

12.0" ASPHALT, 12.0" CRUSHED STONE
CLAY LOAM-brown & gray-medium stiff to hard (Fill)

End Of Boring @ -40.0'. Boring backfilled with cuttings. 531.62

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	3		
	3	1.0	
	4	P	
	3		
	3	1.5	
-25	4	P	
	2		
	3	1.0	
	6	P	
	23		
	50/5"		
-30			
	8		
	8	2.0	
-35	9	P	
	5		
	6	0.9	
-40	11	B	

CLAY LOAM-brown & gray-medium stiff to hard (Fill) *(continued)*

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

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Notes:
1. Stations and offsets in boring logs are measured to ℄ I-80. Measurements to ℄ Ramp A are as follows:

RW-11 = N/A
RW-12 = Sta. 100+51.67, Off. 8.57' Lt
RW-13 = Sta. 101+30.72, Off. 9.59' Lt

FILE NAME:
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DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1066

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL 1 - BORING LOGS
STRUCTURE NO. 099-W801
SHEET 6 OF 6 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	424
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/18/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ

SECTION 2013-008B & 2013-009B LOCATION SW 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R10E, 3rd **PM**

COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. ______
Station ______

BORING NO. RW-14
Station 718+24
Offset 60.00ft Right
Ground Surface Elev. 570.14 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT, 12.0" CRUSHED STONE	568.14		4 / 7 / 9	3.0 P	3
CLAY LOAM-brown & gray-medium stiff to hard (Fill)		-5	4 / 5 / 6	2.5 P	14
			4 / 5 / 10		13
		-10	5 / 5 / 6		15
			3 / 5 / 6		NR
		-15	4 / 2 / 2	0.5 P	17
			4 / 4 / 6	2.1 P	18
		-20	2 / 3 / 3	3.0 P	17
CLAY LOAM-brown & gray-medium stiff to hard (Fill) *(continued)*			4 / 5 / 6	2.0 P	20
		-25	5 / 9 / 15		16
			7 / 7 / 8	4.0	19
		-30	9 / 15 / 14		18
		-35	8 / 9 / 15		15
End Of Boring @ -40.0'. Boring backfilled with cuttings.	530.14	-40	7 / 8 / 14	3.0	20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

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805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/23/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ

SECTION 2013-008B & 2013-009B LOCATION SW 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R10E, 3rd **PM**

COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. ______
Station ______

BORING NO. RW-15
Station 719+04
Offset 60.50ft Right
Ground Surface Elev. 567.99 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT	566.99				
CLAY LOAM-brown & gray-stiff to hard (Fill)			3 / 4 / 6	3.5 P	18
		-5	4 / 5 / 6	2.5 B	16
			5 / 7 / 11	3.5 P	18
		-10	6 / 7 / 7	3.0 P	21
			5 / 8 / 9	2.0 P	19
		-15	4 / 7 / 9	2.9 B	16
			5 / 8 / 13	3.0 P	14
		-20	4 / 5 / 7	2.5 P	15
CLAY LOAM-brown & gray-stiff to hard (Fill) *(continued)*			3 / 4 / 6	3.5 P	19
		-25	4 / 6 / 10	3.0 P	18
			4 / 5 / 8	1.5 P	18
		-30	6 / 8 / 15	4.5 P	18
	530.99	-35	4 / 7 / 11	4.5 P	18
SILTY CLAY LOAM with GRAVEL-brown & gray-dense (Fill)					
End Of Boring @ -40.0'. Boring backfilled with cuttings.	527.99	-40	24 / 23 / 21		6

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

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Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/23/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ

SECTION 2013-008B & 2013-009B LOCATION SW 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R10E, 3rd **PM**

COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. ______
Station ______

BORING NO. RW-16
Station 719+82
Offset 60.50ft Right
Ground Surface Elev. 565.89 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT	564.89				
CLAY LOAM-brown & gray-stiff to hard (Fill)			3 / 4 / 5	2.0 B	22
		-5	3 / 4 / 4	3.5 P	21
			3 / 4 / 5	2.2 B	13
		-10	3 / 7 / 8	1.8 B	16
			4 / 8 / 11	2.5 P	14
		-15	6 / 9 / 10	3.5 P	16
			6 / 6 / 8	1.2 B	19
		-20	7 / 9 / 14	4.5 P	15
CLAY LOAM-brown & gray-stiff to hard (Fill) *(continued)*			8 / 9 / 15	4.5 P	18
		-25	6 / 8 / 14	3.5 P	17
			6 / 8 / 12	2.0 P	20
		-30	6 / 9 / 13	2.5 P	14
	528.89	-35	10 / 12 / 15	3.0 P	17
CLAY LOAM with GRAVEL-brown, gray & black-medium dense (Fill)					
End Of Boring @ -40.0'. Boring backfilled with cuttings.	525.89	-40	11 / 10 / 9		14

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\13125 HNTB, I-80 PHASE II (NEAR TERM)\13125 BORING LOGS\13125_LOG.GPJ 4/4/20

Notes:

1. Stations and offsets in boring logs are measured to ℄ I-80. Measurements to ℞ Ramp A are as follows:

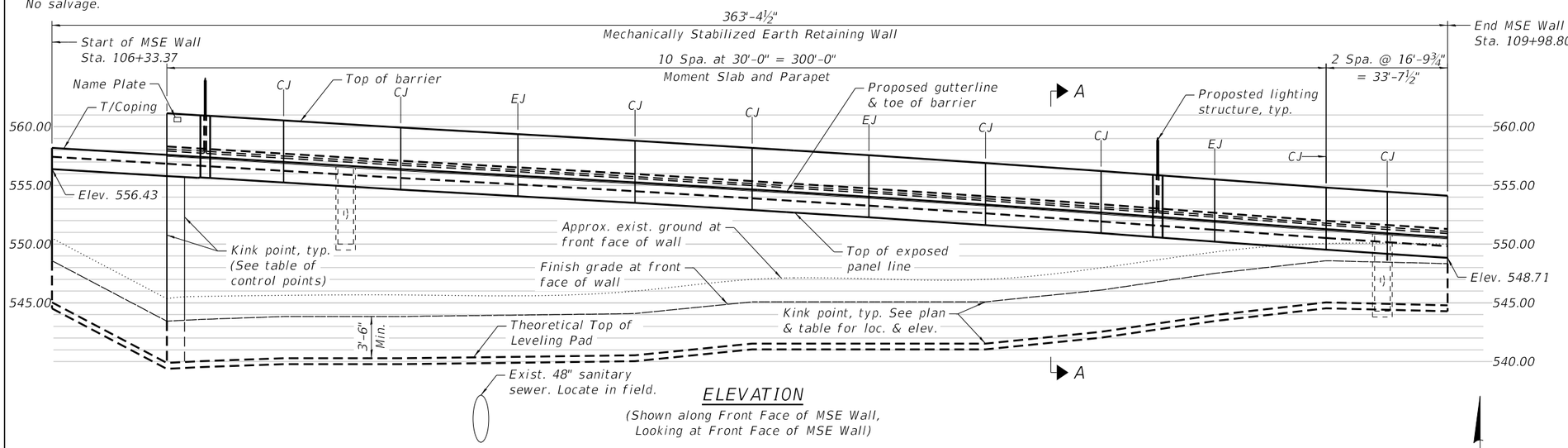
RW-14 = Sta. 102+10.62, Off. 13.75' Lt
RW-15 = Sta. 102+90.54, Off. 17.52' Lt
RW-16 = Sta. 103+68.43, Off. 21.68' Lt

Bench Mark: Square cut on middle step of S.E. wingwall of bridge over Richards WB roadway. Elev. = 558.98

Existing Structure: None

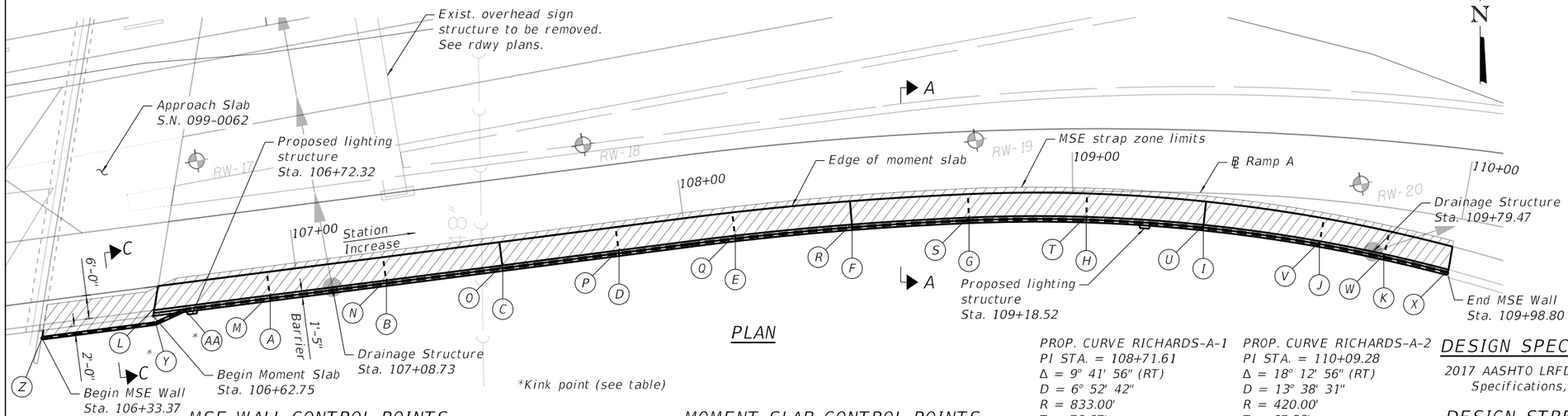
Staged construction shall be utilized to maintain traffic during construction.

No salvage.



ELEVATION

(Shown along Front Face of MSE Wall, Looking at Front Face of MSE Wall)



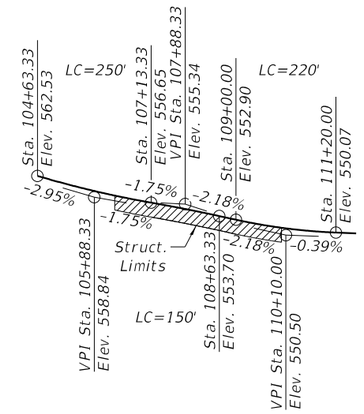
PLAN

*Kink point (see table)

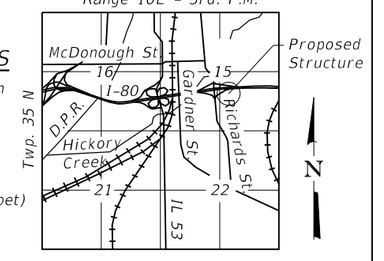
GENERAL NOTES

1. Offsets are measured from ℄ Ramp A to front face of MSE wall panels for MSE Wall Control Points.
2. Offsets and elevations are measured from ℄ Ramp A to proposed gutter line and toe of the barrier for Moment Slab Control Points.
3. Slip forming of parapets will not be allowed.
4. For Section A–A, see Sheet 4 of 6.
5. Wall shall be built during Stage 2 Construction. See MOT plans for details.
6. For section C–C, see Sheet 4 of 6.
7. Reinforcement bars designated (E) shall be epoxy coated.
8. CJ = Construction Joint, EJ = Expansion Joint

INDEX OF SHEETS



PROFILE GRADE PROP. RAMP A



LOCATION SKETCH

MSE WALL CONTROL POINTS

Description	Station	Offset	T/ Exposed Panel Line Elev	Finished Grade Elev @ F.F. Wall	T/ Theoretical Leveling Pad Elev
Point Z	106+33.37	9.42' RT.	556.43	549.00	545.50
* Point Y	106+62.75	9.42' RT.	555.80	543.85	540.35
* Point AA	106+70.65	6.92' RT.	555.65	544.00	540.50
Point A	106+92.77	6.92' RT.	555.22	544.25	540.75
Point B	107+22.77	6.92' RT.	554.63	544.25	540.75
Point C	107+52.77	6.92' RT.	554.08	544.37	540.87
Point D	107+82.77	6.92' RT.	553.49	544.50	541.00
Point E	108+12.77	6.92' RT.	552.85	545.50	542.00
Point F	108+42.77	6.92' RT.	552.19	545.75	542.25
Point G	108+72.77	6.92' RT.	551.50	545.50	542.00
Point H	109+03.42	7.47' RT.	550.81	546.50	543.00
Point I	109+33.67	9.10' RT.	550.10	547.92	544.42
Point J	109+64.23	11.54' RT.	549.41	549.00	545.50
Point K	109+81.49	12.93' RT.	549.04	549.00	545.50
End	109+98.80	14.30' RT.	548.71	548.75	545.25

MOMENT SLAB CONTROL POINTS

Description	Station	Offset	Elev. @ Toe of Barrier
Point L	106+62.75	6.00' RT.	557.48
Point M	106+92.57	6.00' RT.	556.84
Point N	107+22.57	6.00' RT.	556.25
Point O	107+52.57	6.00' RT.	555.70
Point P	107+82.57	6.00' RT.	555.11
Point Q	108+12.67	6.00' RT.	554.47
Point R	108+42.92	6.00' RT.	553.81
Point S	108+73.17	6.00' RT.	553.12
Point T	109+03.46	6.55' RT.	552.43
Point U	109+33.74	8.19' RT.	551.72
Point V	109+64.31	10.62' RT.	551.03
Point W	109+81.57	12.00' RT.	550.67
Point X	109+98.88	13.37' RT.	550.33

PROP. CURVE RICHARDS-A-1
PI STA. = 108+71.61
Δ = 9° 41' 56" (RT)
D = 6° 52' 42"
R = 833.00'
T = 70.67'
L = 141.01'
E = 2.99'
e = 6.0%
P.C. STA = 108+00.94
P.T. STA = 109+41.95

PROP. CURVE RICHARDS-A-2
PI STA. = 110+09.28
Δ = 18° 12' 56" (RT)
D = 13° 38' 31"
R = 420.00'
T = 67.33'
L = 133.53'
E = 5.36'
e = 6.0%
P.C. STA = 109+41.95
P.T. STA = 110+75.48

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi (Moment Slab and Parapet)
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

f'c = 4,500 psi (Precast Panels)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	1008.3
Concrete Superstructure	Cu. Yd.	224.0
Protective Coat	Sq. Yd.	388
Reinforcement Bars, Epoxy Coated	Pound	25,520
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	3,756

LICENSED STRUCTURAL ENGINEER
ROBERT V. SUTPHEN
081-004907
STATE OF ILLINOIS

SIGNED: Robert V. Sutphen
DATE: 9/29/20
EXPIRES: November 30, 2020

GENERAL PLAN AND ELEVATION
EB I-80 WALL 2 @ RICHARDS RAMP A
F.A.I. RTE 80 – SECTION 2013-008B
WILL COUNTY
STATION 106+33.37 TO 109+98.80
STRUCTURE NO. 099-W802

FILE NAME:
9/29/2020 4:09:52 PM

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123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1056

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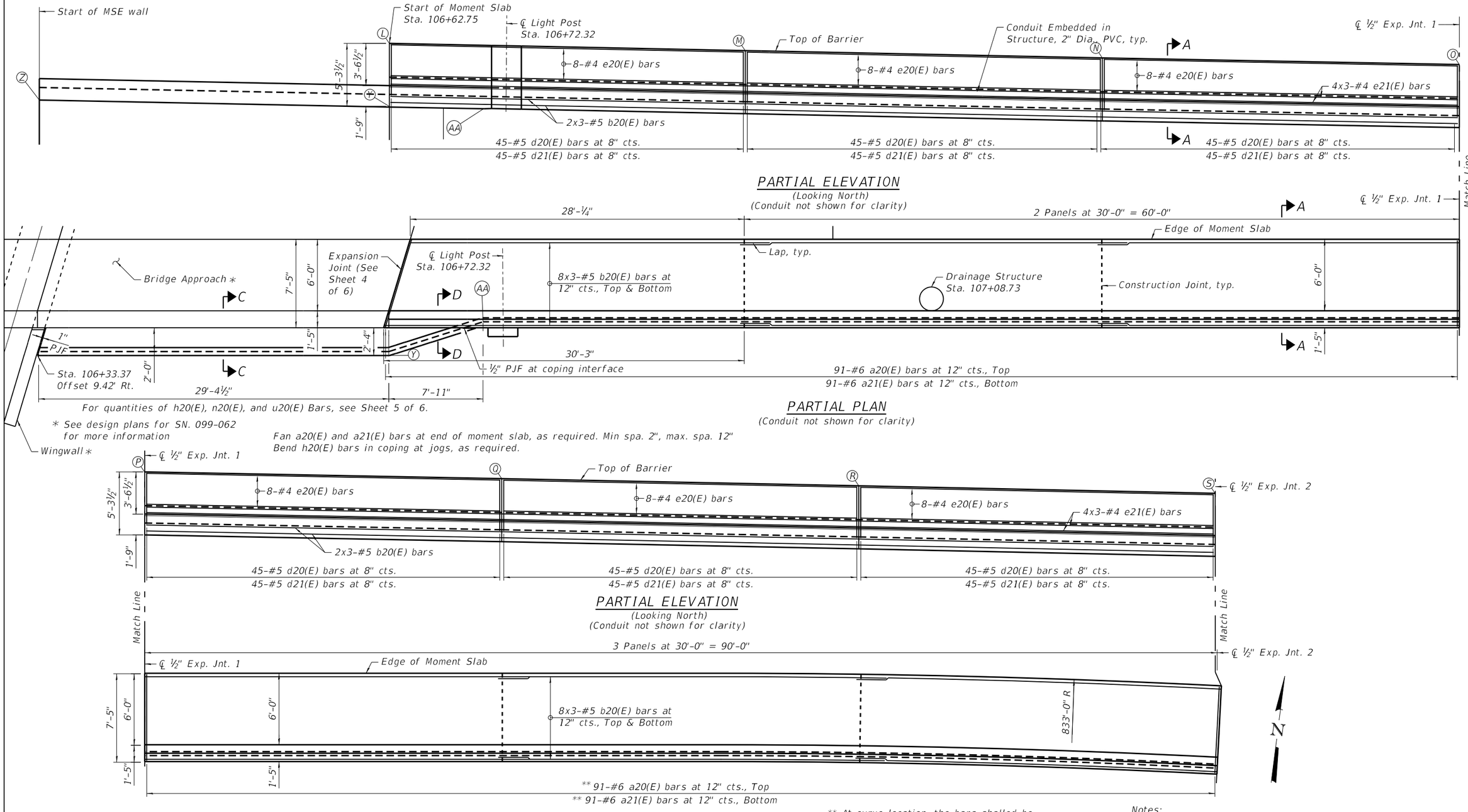
PLOT DATE =	4/27/2020	CHECKED -	RVS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 6 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	425
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



** At curve location, the bars shalled be spaced along the curve.

MIN. LAP LENGTH

#4 Bar = 2'-8"
#5 Bar = 3'-6"

Notes:

1. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bar per line.
2. For control point station, offset, and elevations, see Sheet 1 of 6.
3. For details of Sections A-A and C-C, see Sheet 4 of 6.
4. For Section D-D and Reinforcement Bars, Epoxy Coated Bill of Materials, see Sheet 5 of 6.
5. Contractor shall coordinate the installation of the MSE Wall adjacent to the bridge piles at the abutment so as not to damage the soil reinforcement. See design plans for proposed bridge SN. 009-0062 for more information.

FILE NAME:
9/28/2020 9:44:16 AM

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1056

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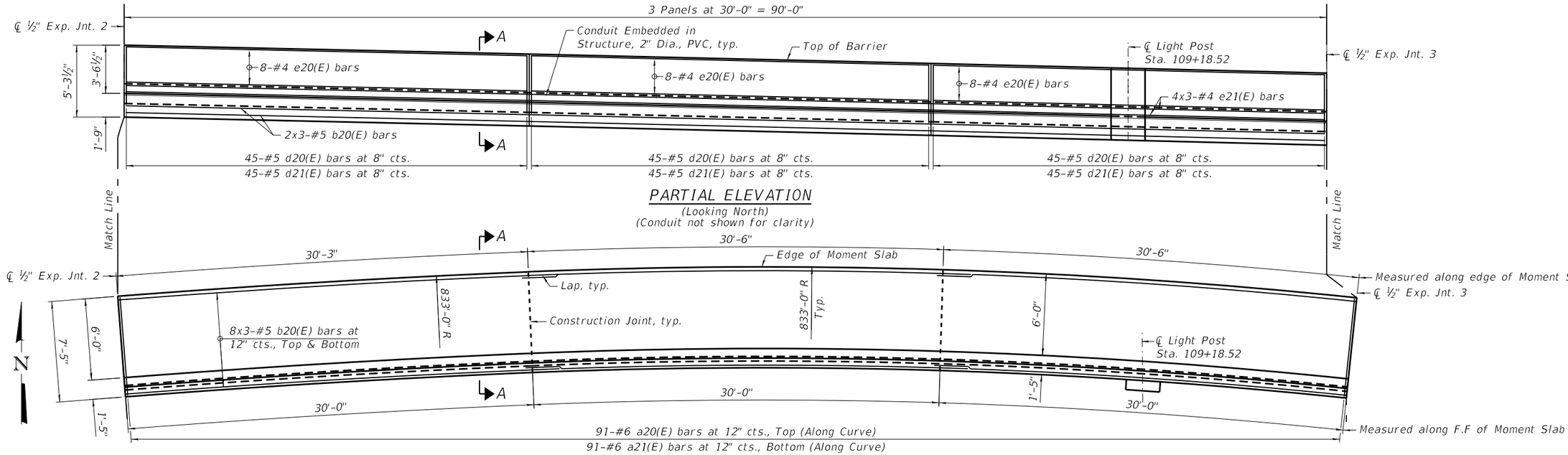
	CHECKED - RVS	REVISED -	
PLOT SCALE =	DRAWN - JMM	REVISED -	
PLOT DATE = 4/9/2020	CHECKED - RVS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL 2 - MOMENT SLAB PLAN AND ELEVATION I
STRUCTURE NO. 099-W802
SHEET 2 OF 6 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	426
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

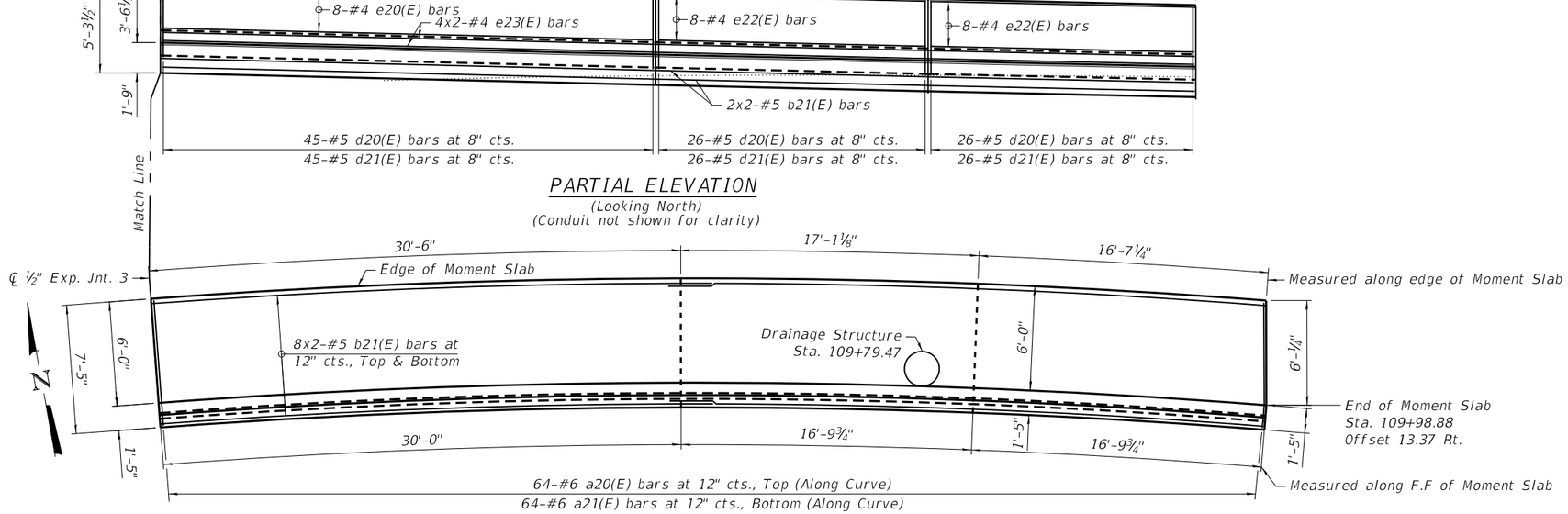


PARTIAL ELEVATION

(Looking North)
(Conduit not shown for clarity)

PARTIAL PLAN

(Conduit not shown for clarity)



PARTIAL ELEVATION

(Looking North)
(Conduit not shown for clarity)

PARTIAL PLAN

(Conduit not shown for clarity)

MIN. LAP LENGTH

#4 Bar = 2'-8"
#5 Bar = 3'-6"

Notes:
1. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bar per line.
2. For control point station, offset, and elevations, see Sheet 1 of 6.
3. For Section A-A, see Sheet 4 of 6.
4. For Reinforcement Bars, Epoxy Coated Bill of Materials, see Sheet 5 of 6.
5. F.F. = Front Face

FILE NAME:
9/28/2020 9:20:38 AM

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CHICAGO, ILLINOIS 60606
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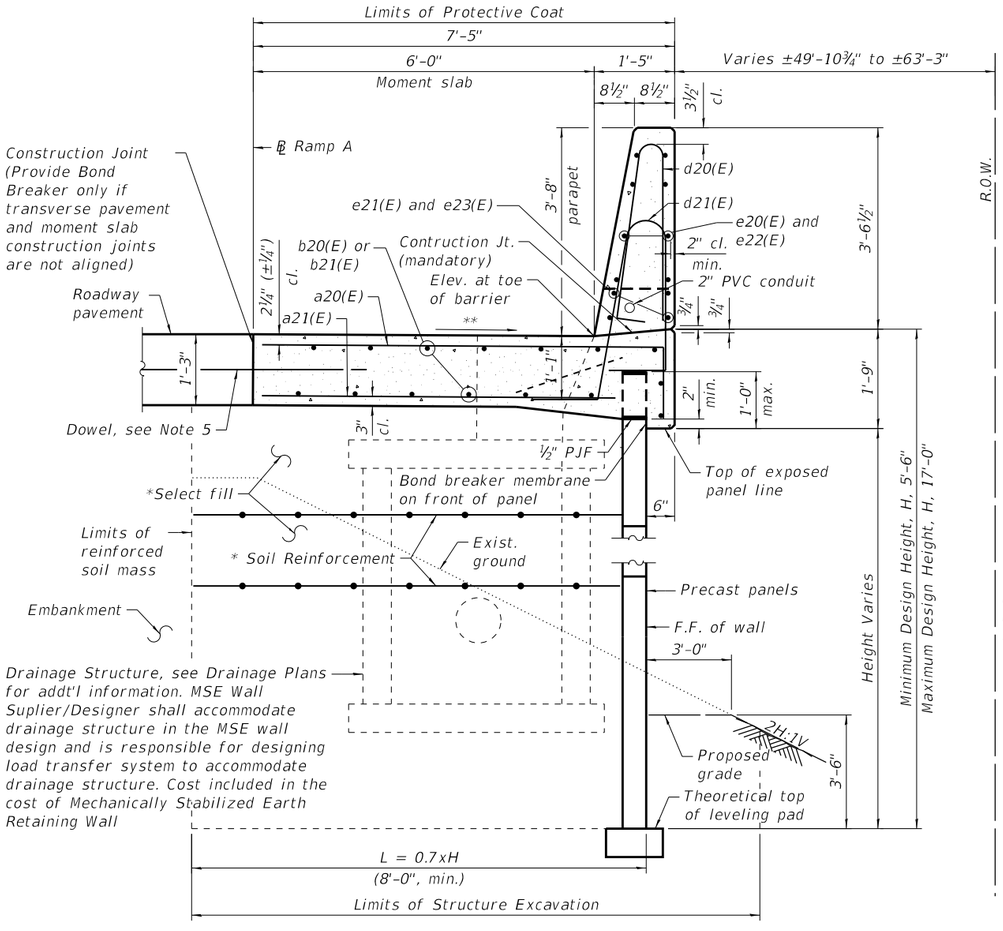
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

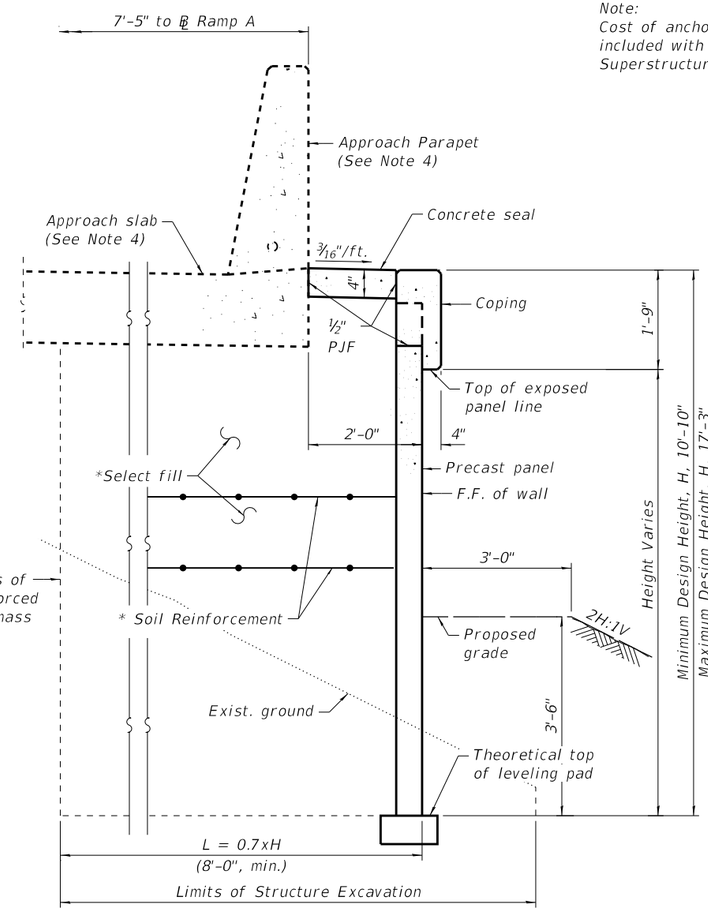
WALL 2 - MOMENT SLAB PLAN AND ELEVATION II
STRUCTURE NO. 099-W802

SHEET 3 OF 6 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	427
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

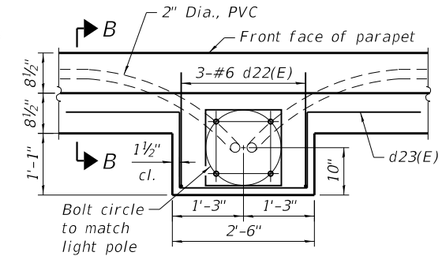


SECTION A-A

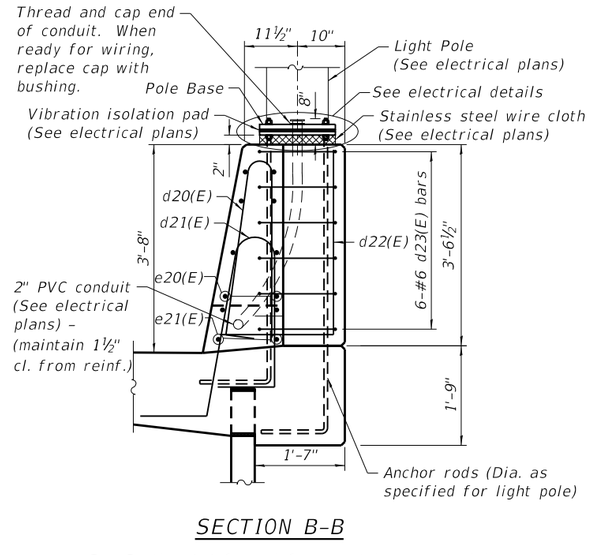


SECTION C-C

Note:
Cost of anchor rods is included with Concrete Superstructure.



LIGHT POLE BUMPOUT PLAN



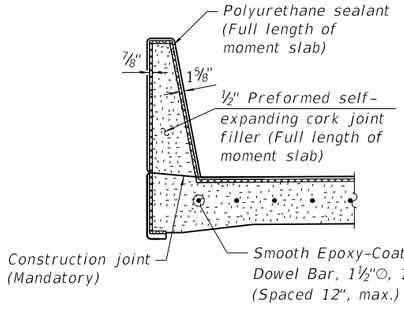
SECTION B-B

See Section A-A for reinforcement in moment slab.

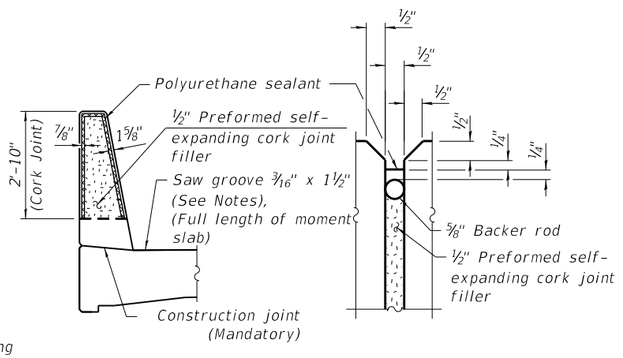
* The M.S.E. wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft. of wall.

** Shoulder slope varies from min. 2% to max. 6%. See Roadway Plans.

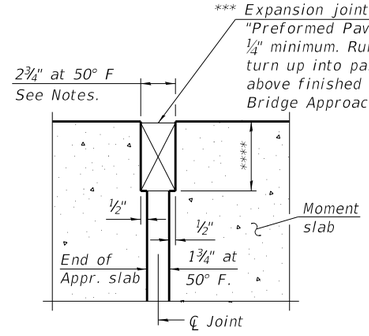
Notes:
1. The polyurethane sealant shall be according to Article 1050.04 of the Standard Specifications and color shall be gray.
2. The saw groove shall use a hot poured joint sealer per Article 1050.02 of the Standard Specifications.
3. For Reinforcement Bars, Epoxy Coated Bill of Material, see Sheet 5 of 6.
4. Approach slab and parapet included with I-80 over Hickory Creek Bridge Plans (SN-099-0062) included elsewhere in the plan set. See bridge plans for additional details.
5. #6 (E) 4'-0" long dowel bars shall be placed at mid-depth of moment slab at a maximum of 3'-0" plan spacing. If dowel bar aligns within 1'-6" of a pavement joint, the dowel bar shall be repositioned such that it is placed at a minimum of 1'-6" from either side of the pavement joint. Cost for dowel bars shall be included with Reinforcement Bars, Epoxy Coated.



EXPANSION JOINT



CONSTRUCTION JOINT



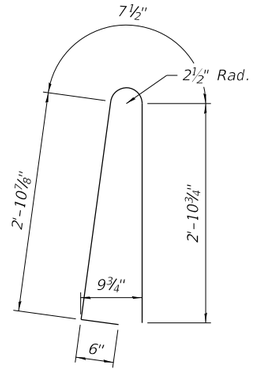
BACKFACE PLAN

JOINT DETAIL AT APPROACH SLAB AND MOMENT SLAB

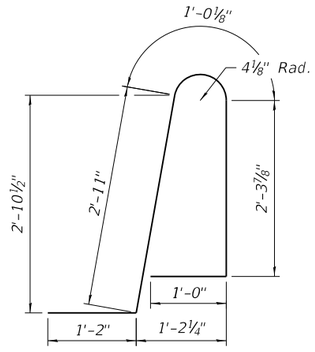
*** Cost included with Concrete Superstructure
**** Per manufacturer recommendations

TRANSVERSE JOINT DETAILS

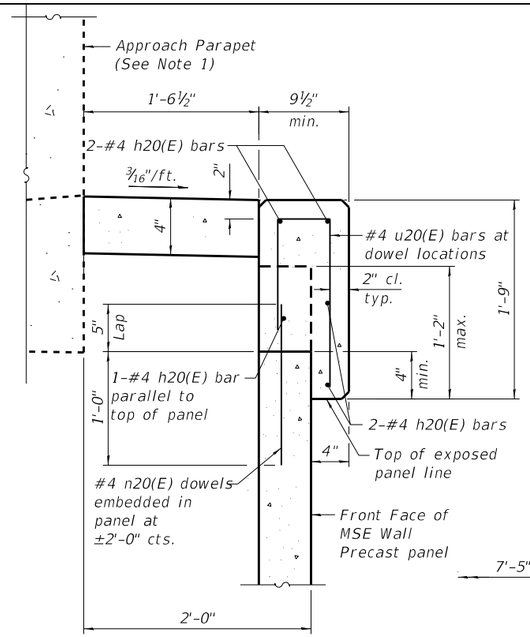
BAR a20(E)



BAR d20(E)

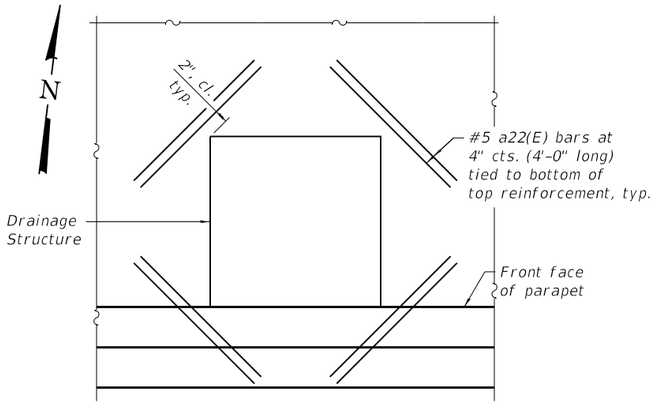


BAR d21(E)



COPING DETAIL

All elements in Coping Detail shall be included in the Cost of MSE Retaining Wall.

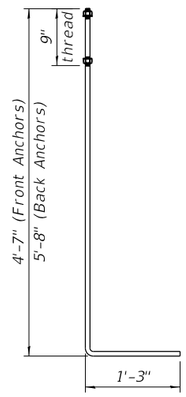


ADDITIONAL REINFORCEEMNT AT DRAINAGE STRUCTURES PLAN

Notes:

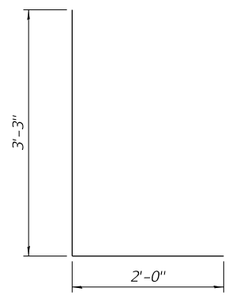
1. Approach slab and parapet included with I-80 over Hickory Creek Bridge Plans (SN-099-0062) included elsewhere in the plan set. See bridge plans for additional details.

2. The Concrete Seal shall be installed according to Articles 511.02, 511..03 and 511.04 of the Standard Specifications. The cost of Concrete Seal shall be included in the cost of Mechanically Stabilized Earth Retaining Wall.

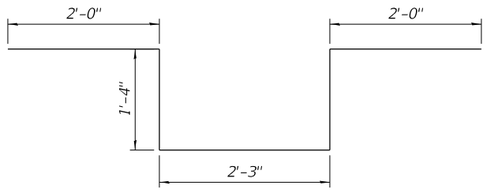


ANCHOR ROD

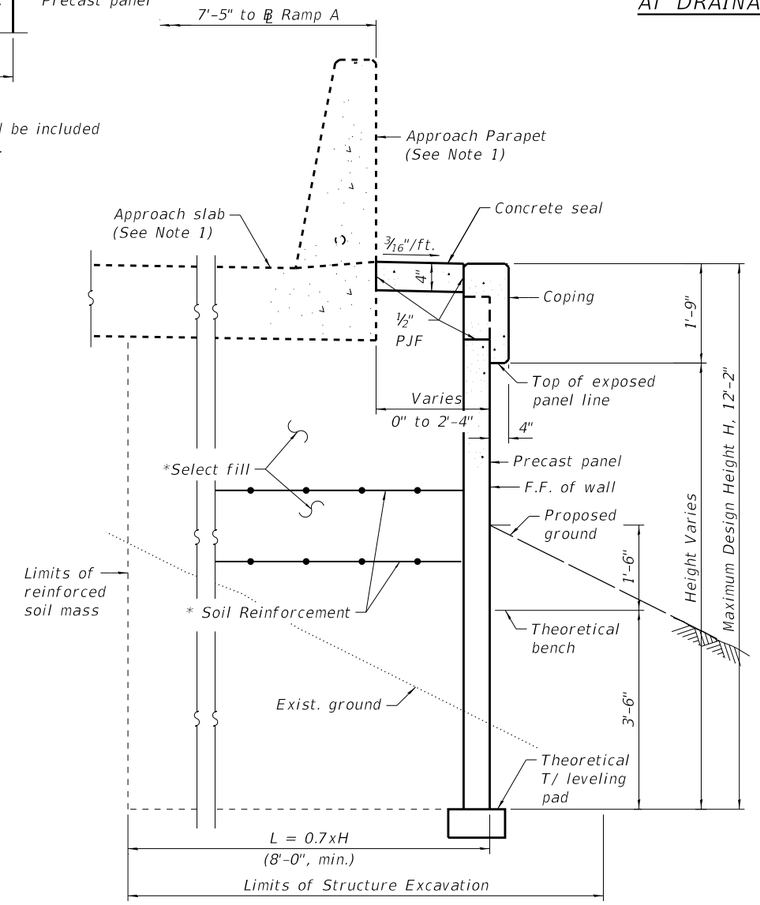
Diameter as specified for light poles. (ASTM F 1554 Grade 105) Full length hot dipped galvanized. Provide 3 flat washers, 1 isolation washer, 1 regular nut, and 1 locknut for each rod.



BAR d22(E)



BAR d23(E)



SECTION D-D

* For single asterisk note, see Shet 4 of 6.

STATION 106+33.37 TO 109+98.80
BUILT BY
STATE OF ILLINOIS
F.A.I. RT. 80 SEC. 2013-008B
LOADING HL-93
STRUCTURE NO. 099-W802

NAME PLATE
See Std. 515001

WALL 2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a20(E)	337	#6	8'-2"	
a21(E)	337	#6	6'-7"	
a22(E)	16	#5	4'-0"	
b20(E)	162	#5	32'-7"	
b21(E)	36	#5	33'-11"	
d20(E)	502	#5	7'-0"	
d21(E)	502	#5	8'-5"	
d22(E)	6	#6	5'-3"	
d23(E)	12	#6	8'-11"	
e20(E)	80	#4	30'-4"	
e21(E)	36	#4	31'-10"	
e22(E)	16	#4	17'-2"	
e23(E)	16	#4	33'-4"	
Concrete Superstructure			Cu. Yd.	224.0
Reinforcement Bars, Epoxy Coated			Pound	25,520

MODEL: $MODELNAMES
FILE NAME: pw:\\pw-fnt.tnntb.org:PWGreat_Lakes\Documents\Chicago Projects\46314 I-80\Phase II - Near Term Improvement (Group A)\Design\CADD\Contract 60W34 (EB)\Sheets\StructuralRetaining Walls\D160W34_Wall 2_05_MS Details 2.dgn
9/28/2020 9:32:58 AM

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2030
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1056

USER NAME =
PLOT SCALE =
PLOT DATE = 4/27/2020

DESIGNED - JMM
CHECKED - RVS
DRAWN - JMM
CHECKED - RVS

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL 2 - MOMENT SLAB DETAILS II
STRUCTURE NO. 099-W802
SHEET 5 OF 6 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	429
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2888

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/26/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-17
Station 722+92
Offset 68.20ft Right
Ground Surface Elev. 556.43 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	4		
554.60			
	4	3.5	21
	5	P	
	4		
	4	2.0	15
-5	8	P	
	5		
	9	3.9	12
	14	B	
	3		
	6	3.0	17
-10	10	P	
	3		
	3	0.8	18
	5	B	
	3		
	4	2.0	16
-15	5	P	
	8		
	12	1.5	16
	13	P	
	9		
	8	4.5	17
-20	8	P	

18.0" ASPHALT, 4.0" CRUSHED STONE

CLAY LOAM-brown & gray-very stiff to hard (Fill)

CLAY LOAM-brown & gray-very stiff to hard (Fill) *(continued)*

524.43
SILTY LOAM to LOAM-dark brown & gray-loose

518.93
Drillers Observation: Apparent bedrock

516.93
Borehole continued with rock coring.

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	8		
	12	4.0	20
	9	P	
	6		
-25	7	2.5	18
	13	P	
	11		
	13	3.5	15
	15	P	
	7		
-30	10		16
	18		
	4		
	4		22
-35	4		
	50/1"		
	8		NR
-40	13		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\13125 HNTB, I-80 PHASE II (NEAR TERM)\13125 BORING LOGS\13125_LOG.GPJ 4/20/20

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2888

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/30/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-18
Station 723+90
Offset 82.00ft Right
Ground Surface Elev. 554.02 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
552.77			
	21		
	10		2
	22		
	15		
	24		5
-5	7		
548.52			
	13		
	5	1.7	14
	7	B	
545.02			
	7		
	10		16
-10	10		
	8		
	10		17
	12		
541.02			
	5		
	4	1.5	16
-15	5	P	
	6		
	11	2.0	17
	15	P	
	9		
535.02			
	13		11
-20	17		

15.0" ASPHALT

CRUSHED STONE-medium dense to dense

CLAY LOAM-brown & gray-stiff to very stiff (Fill)

SILT with GRAVEL-gray-medium dense (Fill)

CLAY LOAM-gray-stiff (Fill)

CLAYEY SILT with GRAVEL-gray-dense (Fill)

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
533.52			
	9		
	15	2.2	14
	16	B	
	7		
-25	11	1.3	16
	12	B	
528.52			
	5		
	8		22
526.02	8		
	4		
	4	2.0	40
-30	4	P	
522.02			
520.52		50/1"	
			16
-35			
518.02			

SILTY CLAY LOAM-gray-stiff to very stiff (Fill)

CLAYEY SAND & GRAVEL-black-medium dense (Fill)

SILTY CLAY with Organics-dark brown, gray & black-loose (Organic Content @ 28.5'-30.0' =3.0%)

FRACTURED ROCK-gray-very dense

Drillers Observation: Apparent bedrock

Borehole continued with rock coring.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\13125 HNTB, I-80 PHASE II (NEAR TERM)\13125 BORING LOGS\13125_LOG.GPJ 4/20/20

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2888

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/31/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-19
Station 724+89
Offset 99.00ft Right
Ground Surface Elev. 551.18 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 544.2 ft ▼
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
549.93			
	5		
	6		16
	11		
	7		
	14		10
-5	10		
	16		
▼	12		22
	10		
	6		
	7		19
-10	9		
	7		
	8		23
	9		
538.18			
	9		
	11		11
-15	9		
	11		
	12		6
	17		
	6		
	10		4
-20	20		

15.0" TOPSOIL

CLAYEY SAND with Stone-dark brown, gray & black-medium dense (Fill)

CRUSHED STONE-medium dense to dense (Fill)

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
530.18			
	-		
	-		NR
528.18			
	17		
	18		12
-25	13		
525.68			
	4		
	4		41
	10		
523.18			
	50/0"		
			NR
521.18	-30		

CRUSHED STONE-medium dense to dense (Fill) *(continued)*

Drillers Observation: Cobbles (Fill)

CLAYEY SAND with SILT & GRAVEL-dark brown, gray & black-medium dense (Fill)

SILTY CLAY with Organics-dark gray to black-medium dense (Organic Content @ 26.0'-27.5' = 4.2%)

Drillers Observation: Apparent bedrock

Borehole continued with rock coring.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\13125 HNTB, I-80 PHASE II (NEAR TERM)\13125 BORING LOGS\13125_LOG.GPJ 4/20/20

Notes:
1. Stations and offsets in boring logs are measured to ℄ I-80. Measurements to ℄ Ramp A are as follows:

RW-17 = Sta. 106+78.40, Off. 30.52' Lt
RW-18 = Sta. 107+76.99, Off. 21.97' Lt
RW-19 = Sta. 108+75.63, Off. 13.68' Lt

FILE NAME:
9/11/2020 3:26:43 PM

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1056

USER NAME =	DESIGNED - JMM	REVISED -	
	CHECKED - RVS	REVISED -	
PLOT SCALE =	DRAWN - JSK	REVISED -	
PLOT DATE = 4/27/2020	CHECKED - RVS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL 2 BORING LOGS
STRUCTURE NO. 099-W802
SHEET 6 OF 6 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	430
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 4/2/20

ROUTE F.A.I RTE. 80 **DESCRIPTION** I-80 Phase II (Near Term) **LOGGED BY** TZ

SECTION 2013-008B & 2013-009B **LOCATION** SW 1/4, **SEC.** 15, **TWP.** T35N, **RNG.** R10E, 3rd **PM**

COUNTY Will **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RW-20
Station 725+84
Offset 127.80ft Right
Ground Surface Elev. 550.02 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 543.0 ft ▼
Upon Completion n/a ft
After ___ **Hrs.** ___ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT	549.02				
CRUSHED ASPHALT-loose			3		
			3		4
	547.02		3		
CLAY LOAM with Stone-dark brown & gray-very stiff (Fill)			7		
			8	3.0	17
		-5	13	P	
	543.52		6		
CLAYEY GRAVEL-gray-medium dense to dense (Fill)		▼	9		17
			24		
			7		
			9		13
		-10	16		
			5		
			5		18
	537.02		7		
CLAYEY GRAVEL & STONE-dark brown & gray-medium dense (Fill)			4		
			7		13
		-15	17		
			6		
			8		11
	532.02		21		
Drillers Observation: Apparent bedrock			50/0"		
					NR
	530.02	-20			

Borehole continued with rock coring.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\13125 HNTB, I-80 PHASE II (NEAR TERM)\13125 BORING LOGS\13125_LOG.GPJ 4/20/20

Notes:
1. Stations and offsets in boring logs are measured to ℄ I-80. Measurements to ℄ Ramp A are as follows:

RW-20 = Sta. 109+73.28, Off. 5.06' Lt

Bench Mark: Square cut on middle step of S.E. wingwall of bridge over Richards WB roadway. Elev. = 558.98

Existing Structure: None

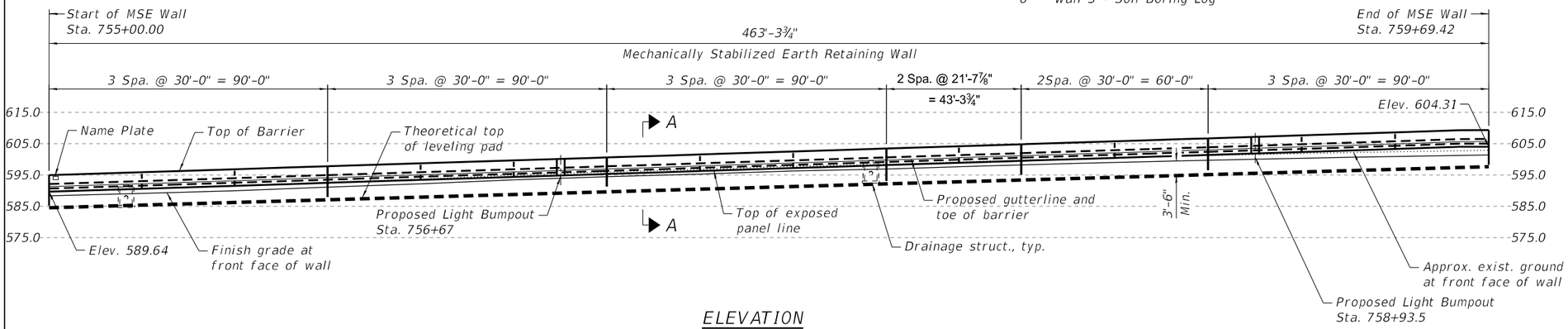
Staged construction shall be utilized to maintain traffic during construction.

No salvage.

INDEX OF SHEETS

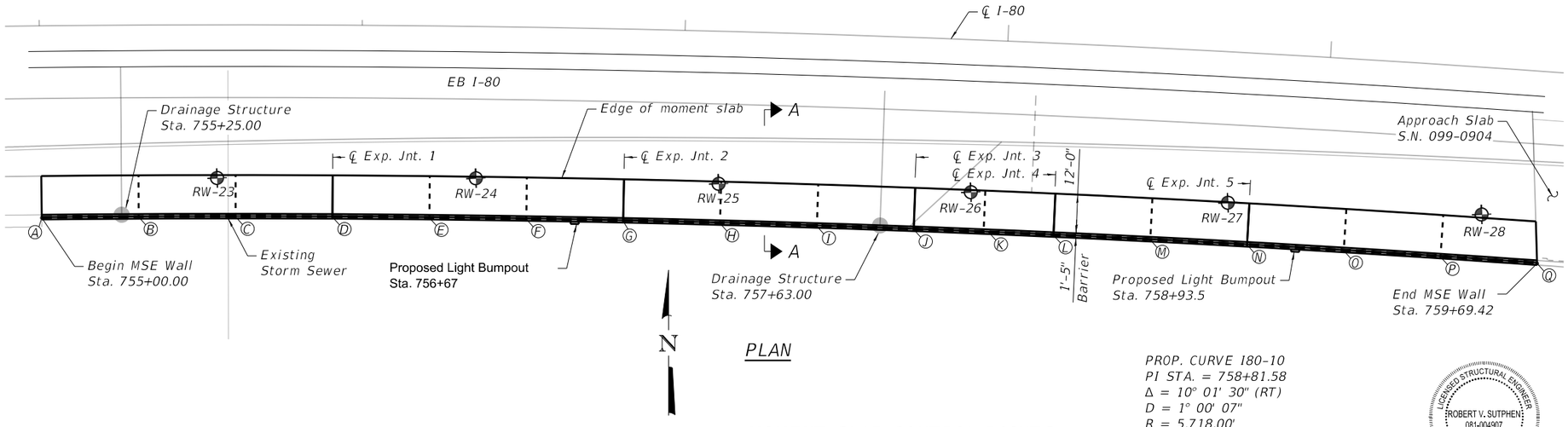
GENERAL NOTES

1. Offsets are measured from ℄ I-80 to front face of MSE wall panels for MSE Wall Control Points.
2. Offsets and elevations are measure from ℄ I-80 to proposed gutterline and toe of the barrier for moment slab control points.
3. Slip forming of parapets will not be allowed.
4. For Section A-A, see Sheet 4 of 6.
5. Wall to be built during Stage 2 Construction. See MOT plans for details.
6. Reinforcement bars designated (E) shall be epoxy coated.
7. CJ = Construction Joint, EJ = Expansion Joint



ELEVATION

(Shown along Front Face of MSE Wall, Looking at Front Face of MSE Wall)



PLAN

DESIGN STRESSES

FIELD UNITS

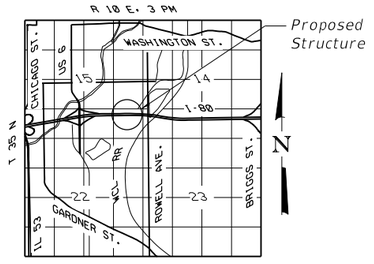
f'c = 4,000 psi (Moment Slab and Parapet)
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

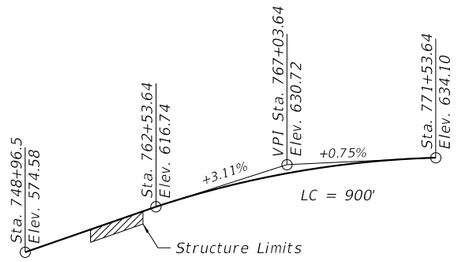
f'c = 4,500 psi (Precast Panels)

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition



LOCATION SKETCH



PROFILE GRADE PROP. I-80

(Along EB P.G.L.)

MSE WALL CONTROL POINTS

Description	Station	Offset	T/ Exposed Panel Line Elev	Finished Grade Elev @ F.F. Wall	T/ Theoretical Leveling Pad Elev
Point A	755+00.00	74.42' Rt.	589.64	586.81	583.31
Point B	755+30.40	74.42' Rt.	590.59	587.65	584.15
Point C	755+60.79	74.42' Rt.	591.53	588.45	584.95
Point D	755+91.19	74.42' Rt.	592.48	589.61	586.11
Point E	756+21.58	74.42' Rt.	593.42	590.64	587.14
Point F	756+51.98	74.42' Rt.	594.36	591.95	588.45
Point G	756+82.38	74.42' Rt.	595.31	592.94	589.44
Point H	757+12.77	74.42' Rt.	596.25	593.78	590.28
Point I	757+43.17	74.42' Rt.	597.20	594.79	591.29
Point J	757+73.56	74.42' Rt.	598.14	595.40	591.90
Point K	757+95.49	74.42' Rt.	598.82	596.14	592.64
Point L	758+17.45	74.42' Rt.	599.50	596.72	593.22
Point M	758+47.84	74.42' Rt.	600.45	597.50	594.00
Point N	758+78.24	74.42' Rt.	601.39	598.18	594.68
Point O	759+08.63	74.42' Rt.	602.34	598.81	595.31
Point P	759+39.03	74.42' Rt.	603.28	599.40	595.90
Point Q	759+69.42	74.42' Rt.	604.31	599.91	596.41

MOMENT SLAB CONTROL POINTS

Description	Station	Offset	Elev @ Toe of Barrier
Point A	755+00.00	73.5' Rt.	591.26
Point B	755+30.40	73.5' Rt.	592.21
Point C	755+60.79	73.5' Rt.	593.15
Point D	755+91.19	73.5' Rt.	594.10
Point E	756+21.58	73.5' Rt..	595.04
Point F	756+51.98	73.5' Rt.	595.98
Point G	756+82.38	73.5' Rt.	596.93
Point H	757+12.77	73.5' Rt.	597.87
Point I	757+43.17	73.5' Rt.	598.82
Point J	757+73.56	73.5' Rt.	599.76
Point K	757+95.49	73.5' Rt.	600.44
Point L	758+17.45	73.5' Rt.	601.12
Point M	758+47.84	73.5' Rt.	602.07
Point N	758+78.24	73.5' Rt..	603.01
Point O	759+08.63	73.5' Rt.	603.96
Point P	759+39.03	73.5' Rt.	604.90
Point Q	759+69.33	73.5' Rt.	605.93

PROP. CURVE I80-10
PI STA. = 758+81.58
Δ = 10° 01' 30" (RT)
D = 1° 00' 07"
R = 5,718.00'
T = 501.52'
L = 1,000.48'
E = 21.95'
e = 3.3%
T.R. = 90'
S.E. RUN = 248'
P.C. STA = 753+80.06
P.T. STA = 763+80.54

LICENSED STRUCTURAL ENGINEER
ROBERT V. SUTPHEN
081-004907
STATE OF ILLINOIS

SIGNED: R.V. Sutphen
DATE: 9/11/20
EXPIRES: November 30, 2020

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	1,323.6
Concrete Superstructure	Cu. Yd.	378.6
Protective Coat	Sq. Yd.	847
Reinforcement Bars, Epoxy Coated	Pound	51,070
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	3,022

GENERAL PLAN & ELEVATION
EB I-80 WALL 3 @ ROWELL AVE
F.A.I. RTE. 80 – SECTION 2013-008B
WILL COUNTY
STATION 755+00.00 TO 759+69.42
STRUCTURE NO. 099-W034

FILE NAME:

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1056

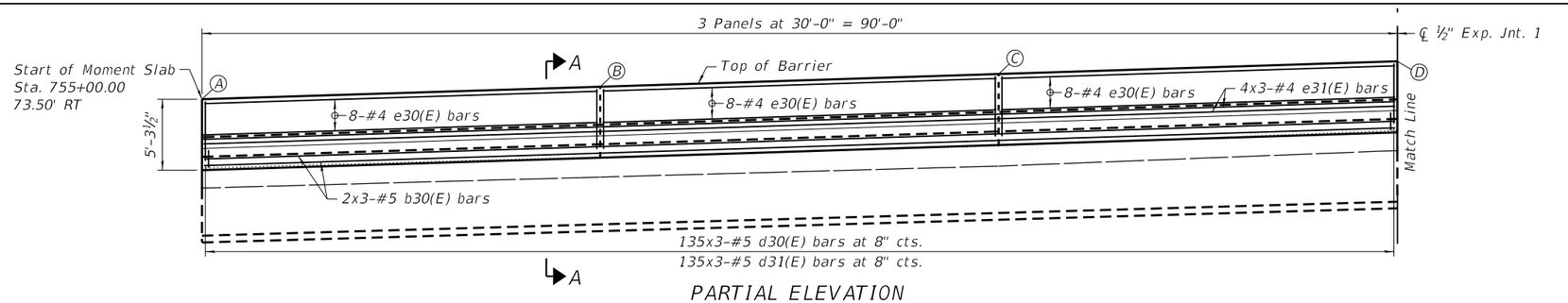
USER NAME =		DESIGNED - RVS	REVISED -
		CHECKED - RVS	REVISED -
PLOT SCALE =		DRAWN - JYT	REVISED -
PLOT DATE =		CHECKED - RVS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 6 SHEETS

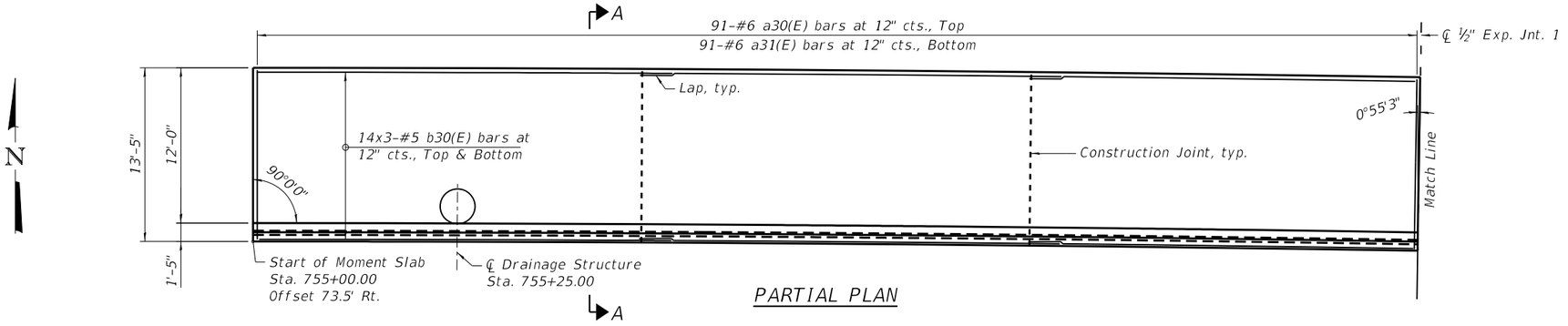
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	431
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

9/11/2020 3:26:53 PM

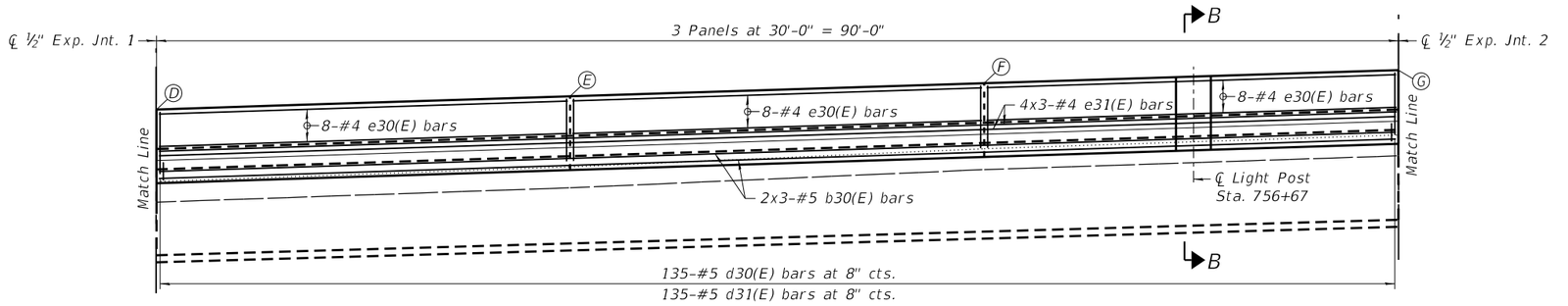


PARTIAL ELEVATION

(Looking North)

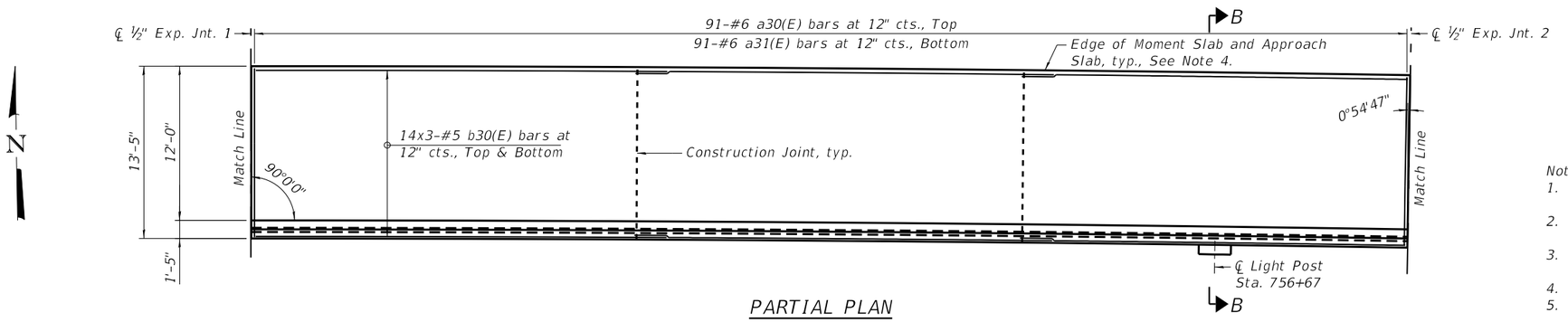


PARTIAL PLAN



PARTIAL ELEVATION

(Looking North)



PARTIAL PLAN

MIN. LAP LENGTH

#4 Bar = 2'-8"
#5 Bar = 3'-6"

Notes:

1. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bar per line.
2. For control point station, offset, and elevations, see Sheet 1 of 6.
3. For details of Sections A-A and B-B, see Sheet 4 of 6.
4. For joint details, see Sheet 4 of 6.
5. For Reinforcement Bars, Epoxy Coated Bill of Materials, see Sheet 5 of 6.

FILE NAME:
9/28/2020 10:05:08 AM

DBS STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1056

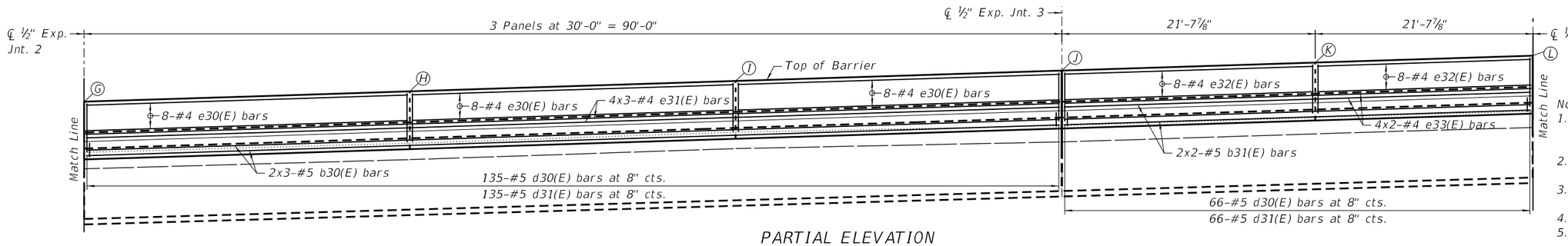
USER NAME =	DESIGNED - RVS	REVISED -	
	CHECKED - RVS	REVISED -	
PLOT SCALE =	DRAWN - JYT	REVISED -	
PLOT DATE =	CHECKED - RVS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL 3 - MOMENT SLAB PLAN AND ELEVATION I
STRUCTURE NO. 099-W034

SHEET 2 OF 6 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	432
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

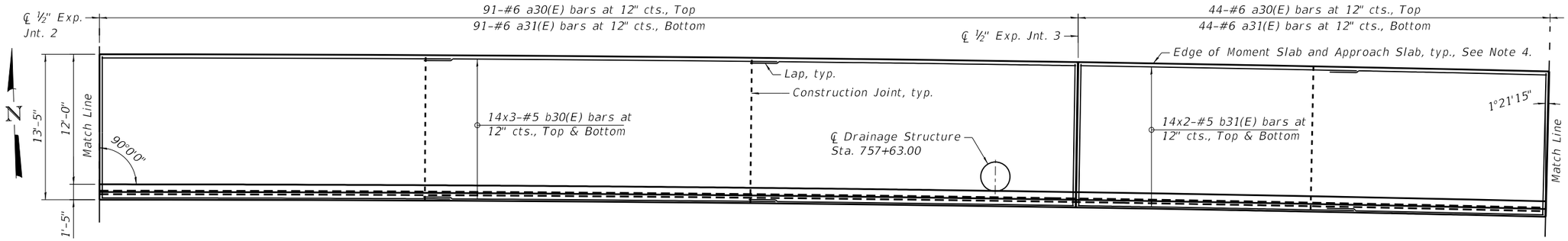


PARTIAL ELEVATION

(Looking North)

Notes:

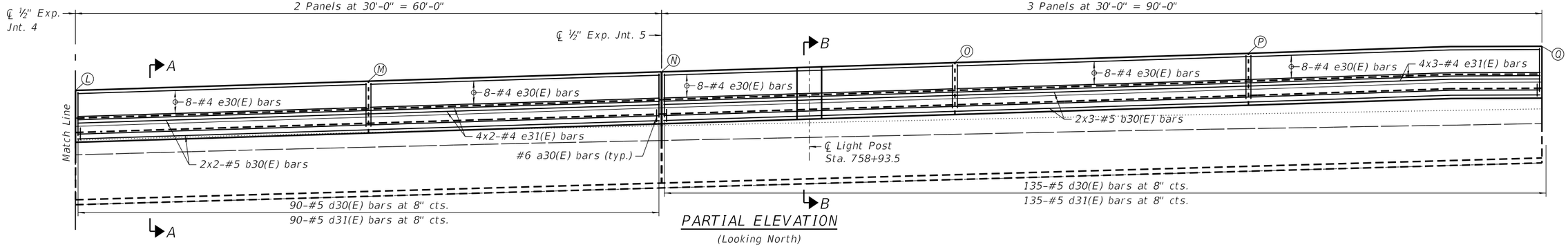
1. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bar per line.
2. For control point station, offset, and elevations, see Sheet 1 of 6.
3. For details of Sections A-A and B-B, see Sheet 4 of 6.
4. For joint details, see Sheet 4 of 6.
5. For Reinforcement Bars, Epoxy Coated Bill of Material, see Sheet 5 of 6.



PARTIAL PLAN

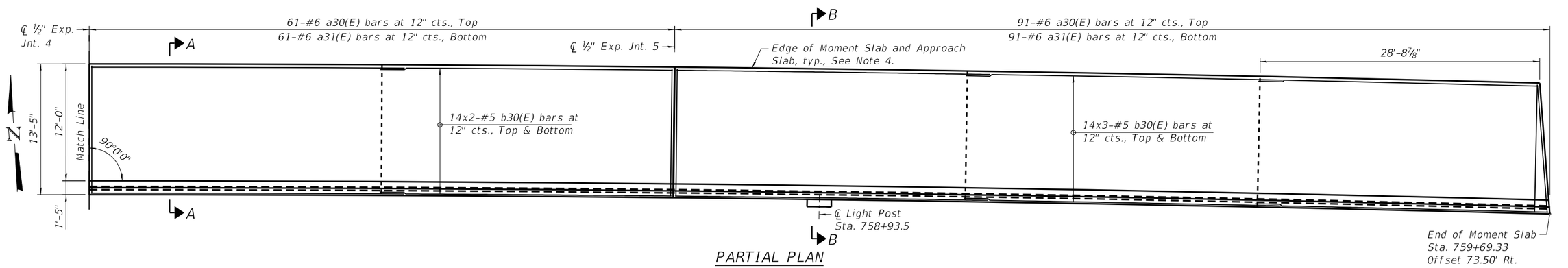
MIN. LAP LENGTH

#4 Bar = 2'-8"
#5 Bar = 3'-6"



PARTIAL ELEVATION

(Looking North)



PARTIAL PLAN

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1056

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

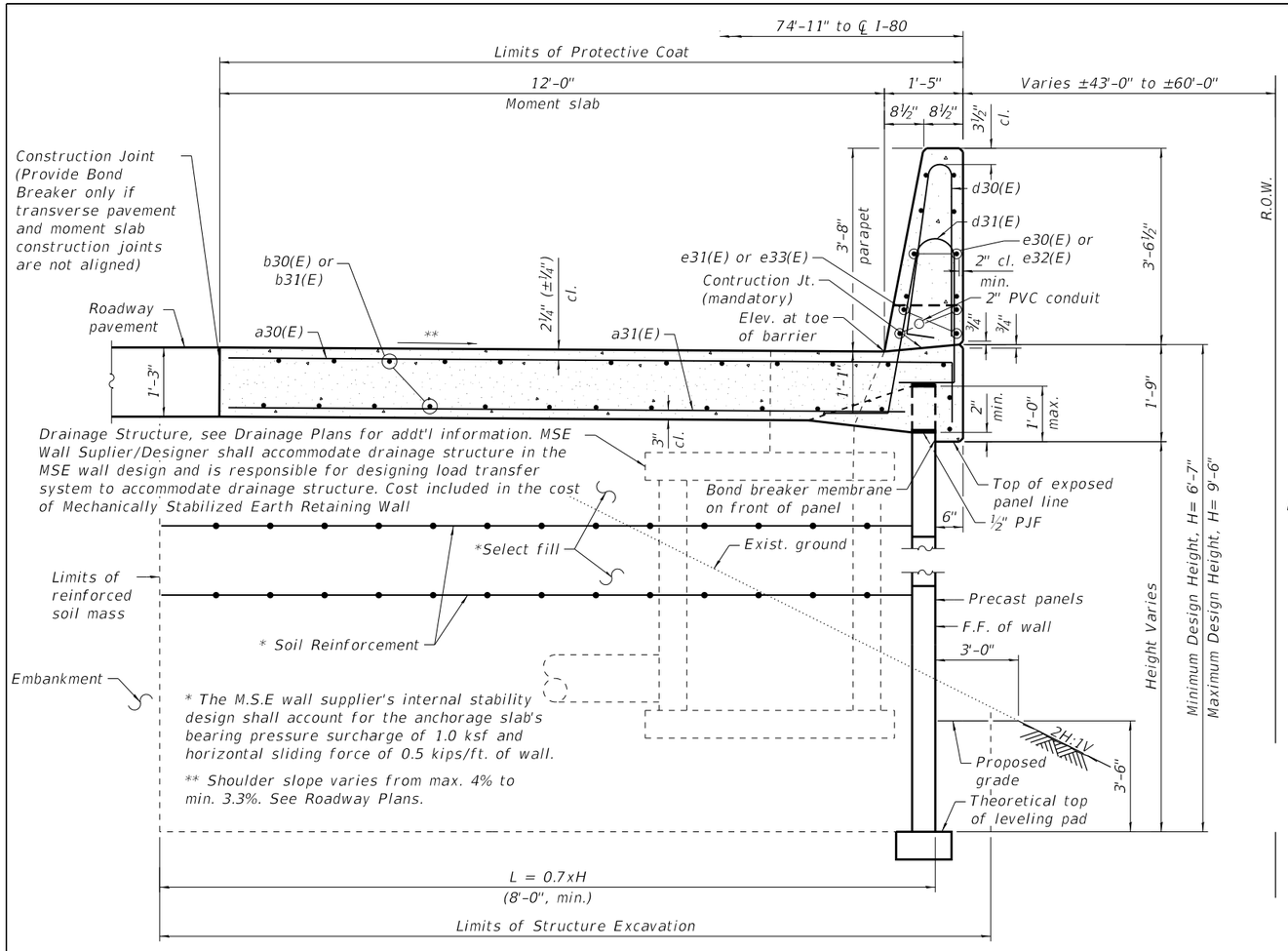
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL 3 - MOMENT SLAB PLAN AND ELEVATION II
STRUCTURE NO. 099-W034

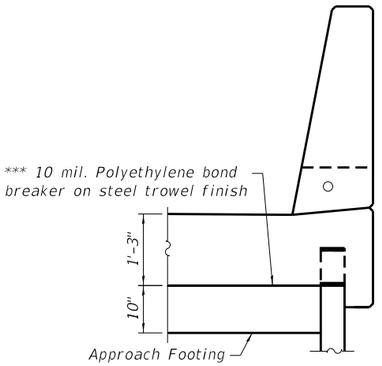
SHEET 3 OF 6 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	433
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

FILE NAME:
9/28/2020 10:07:08 AM

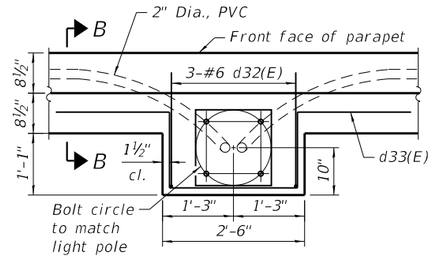


SECTION A-A

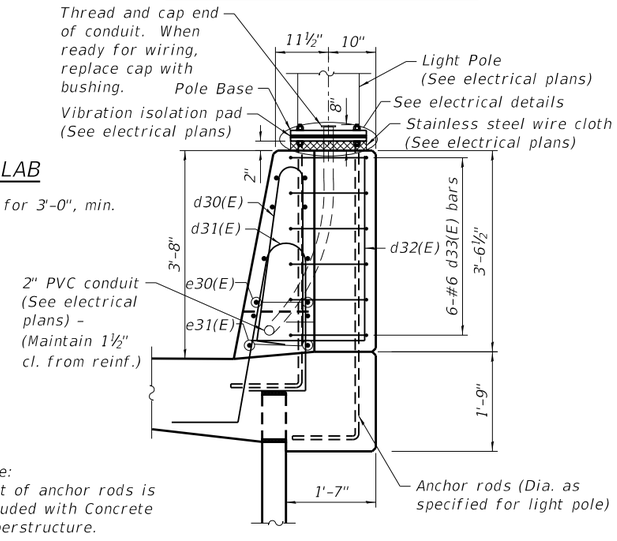


SECTION AT BRIDGE APPROACH SLAB

Flatten bottom of moment slab at bridge approach slab for 3'-0", min.



LIGHT POLE BUMPOUT PLAN

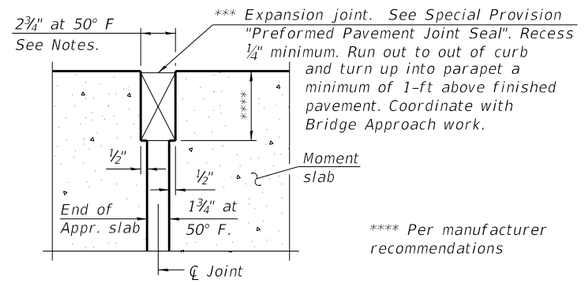


Note:
Cost of anchor rods is included with Concrete Superstructure.

SECTION B-B

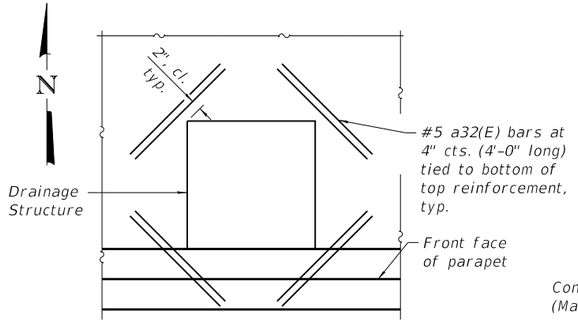
See Section A-A for reinforcement in moment slab.

*** Cost included with Concrete Superstructure

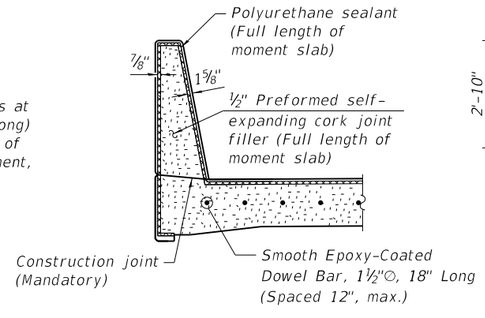


**** Per manufacturer recommendations

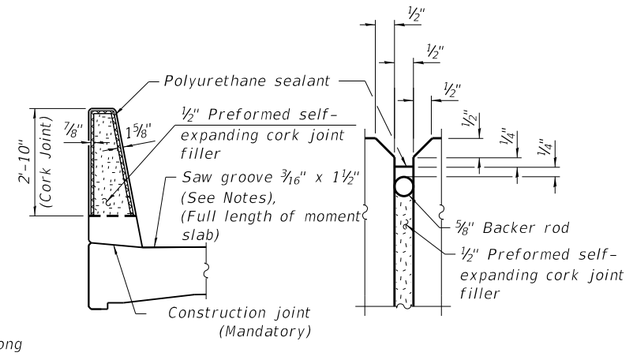
JOINT DETAIL AT APPROACH SLAB AND MOMENT SLAB



ADDITIONAL REINFORCEMENT AT DRAINAGE STRUCTURES PLAN



EXPANSION JOINT

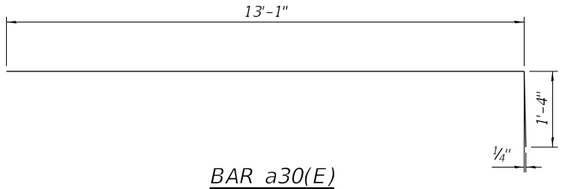


CONSTRUCTION JOINT

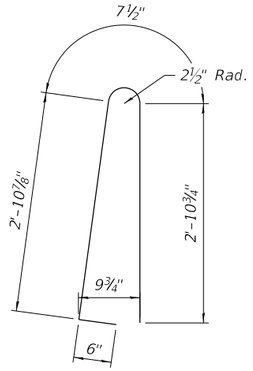
BACKFACE PLAN

TRANSVERSE JOINT DETAILS

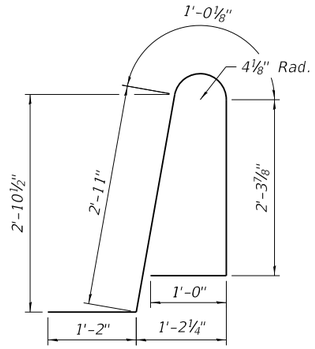
Notes:
1. The polyurethane sealant shall be according to Article 1050.04 of the Standard Specifications and color shall be gray.
2. The saw groove shall use a hot poured joint sealer per Article 1050.02 of the Standard Specifications.
3. For Reinforcement Bars, Epoxy Coated Bill of Material, see Sheet 5 of 6.



BAR a30(E)



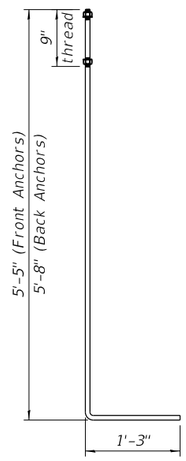
BAR d30(E)



BAR d31(E)

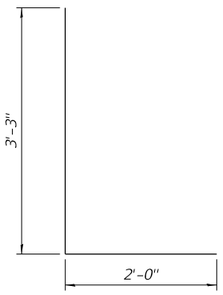
STATION 755+00.00 TO 759+69.42
BUILT BY
STATE OF ILLINOIS
F.A.I. RT. 80 SEC. 2013-008B
LOADING HL-93
STRUCTURE NO. 099-W034

NAME PLATE
See Std. 515001

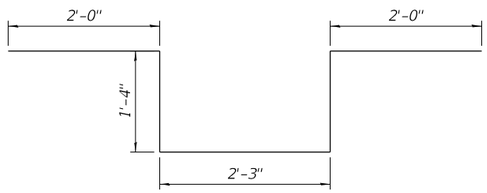


ANCHOR ROD

Diameter as specified for light poles. (ASTM F 1554 Grade 105) Full length hot dipped galvanized. Provide 3 flat washers, 1 isolation washer, 1 regular nut, and 1 locknut for each rod.



BAR d32(E)



BAR d33(E)

WALL 3
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a30(E)	469	#6	14'-5"	
a31(E)	469	#6	13'-1"	
a32(E)	16	#5	4'-0"	
b30(E)	420	#5	33'-3"	
b31(E)	60	#5	24'-3"	
d30(E)	696	#5	7'-0"	
d31(E)	696	#5	8'-5"	
d32(E)	6	#6	5'-3"	
d33(E)	12	#6	8'-11"	
e30(E)	112	#4	30'-4"	
e31(E)	56	#4	32'-4"	
e32(E)	16	#4	22'-0"	
e33(E)	8	#4	23'-6"	
Concrete Superstructure		Cu. Yd.	378.6	
Reinforcement Bars, Epoxy Coated		Pound	51,070	

DB STERLIN CONSULTANTS, INC.
223 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1056

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL 3 - MOMENT SLAB DETAILS II
STRUCTURE NO. 099-W034
SHEET 5 OF 6 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	435
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

FILE NAME:
9/29/2020 2:23:57 PM

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2888

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/20/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-21
Station 754+00
Offset 62.40ft Right
Ground Surface Elev. 588.66 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	8		
586.66	8	4.5	15
	6	P	
	5		
	6	3.1	14
-5	8	B	
	6		
	10	4.5	16
	10	P	
	6		
	10	4.0	9
-10	12	P	
	5		
	7		11
	8		
	5		
	5	2.0	16
-15	7	P	
573.16			
	50/6"		
			8
	15		
	16		10
-20	22		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
568.16			
	6		
	7		8
565.66	10		
	29		
	26		3
-25	16		
	14		
	10		5
	34		
	21		
	50/4"		6
558.66 -30			

CLAYEY GRAVEL- dense (Fill) *(continued)*
SANDY CLAY LOAM with Stone-brown-medium dense (Fill)
CRUSHED STONE-dense to very dense (Fill)
End Of Boring @ -30.0'. Boring backfilled with cuttings.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2888

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/24/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-22
Station 754+78
Offset 62.90ft Right
Ground Surface Elev. 590.96 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
589.96			
	4		
	6	3.7	16
	8	B	
	3		
	6	2.2	15
-5	7	B	
	5		
	9	3.1	13
	12	B	
582.96			
	9		
	20		3
-10	14		
580.46			
	3		
	6	1.2	12
	8	B	
577.96			
	7		
	19		14
-15	24		
	12		
	7		13
	7		
572.96			
	10		
	3		8
-20	6		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	30		
568.96	50/3"		9
567.46			
	Run		
	1		
-25			
-30			
	6		
	8		8
555.96 -35	10		

12.0" ASPHALT
SILTY SAND & GRAVEL-brown-loose to very dense (Fill) *(continued)*
CLAY LOAM-brown & gray-very stiff (Fill)
SANDY CLAY LOAM with STONE-brown & gray-dense (Fill)
CLAY LOAM-brown & gray-stiff (Fill)
SANDY CLAY LOAM with STONE-brown & gray-medium dense to dense (Fill)
SILTY SAND & GRAVEL-brown, gray & black-very dense (Fill)
FRACTURED ROCK-gray-very dense (Cobbles)
Run 1 Cobbles & Boulders
SAND & GRAVEL-brown-medium dense
Borehole continued with rock coring.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2888

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/24/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-23
Station 755+56
Offset 62.40ft Right
Ground Surface Elev. 593.31 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
592.31			
	4		
	6		13
	7		
590.31			
	7		
	10		11
-5	12		
587.81			
	7		
	8	4.7	16
	11	B	
	9		
	17	2.7	11
-10	8	B	
	5		
	6	1.5	14
	6	P	
580.31			
	8		
	15		15
-15	21		
577.81			
	8		
	10		10
	12		
575.31			
	11		
	16		15
-20	50/0"		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
572.81			
	16		
	21		16
	25		
570.31			
	10		
	11		12
-25	16		
567.81			
	5		
	6		14
	7		
565.31			
	3		
	4		18
-30	5		
	9		9
	31		
-35	28		
	8		
	11		9
553.31 -40	7		

12.0" ASPHALT
RECYCLED ASPHALT-medium dense (Fill)
SANDY GRAVEL-brown & gray-medium dense (Fill)
CLAY LOAM with STONE-brown & gray-stiff to hard (Fill)
SILTY SAND and GRAVEL-brown, gray & black-dense (Fill)
SANDY CLAY LOAM with STONE-brown, gray & black-medium dense (Fill)
SILTY SAND and GRAVEL-brown, gray & black-very dense (Fill)
SILTY CLAY LOAM-black-dense (Fill)
SANDY CLAY LOAM-brown & gray- dense (Fill)
SAND-brown-medium dense (Fill)
SILTY CLAY LOAM -brown & gray-loose (Fill)
CLAYEY SAND & GRAVEL-brown-medium dense to very dense
End Of Boring @ -40.0'. Boring backfilled with cuttings.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\13125 HNTB, I-80 PHASE II (NEAR TERM)\13125 BORING LOGS\13125_LOG.GPJ 4/20/20

FILE NAME:
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DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1056

USER NAME =	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE =	DRAWN -	REVISED -	
PLOT DATE = 4/9/2020	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL 3 BORING LOGS
STRUCTURE NO. 099-W034
SHEET 6 OF 6 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	436
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2888

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/25/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-24
Station 756+36
Offset 62.00ft Right
Ground Surface Elev. 595.78 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
594.78			
12.0" ASPHALT			
	7		
CLAY LOAM-brown & gray-stiff to very stiff (Fill)	8	3.5	14
	10	B	
	5		
	8	4.3	15
-5	11	B	
	6		
	8	4.5	13
	13	P	
	3		
	5	2.5	12
-10	5	P	
585.28			
SILTY SAND and GRAVEL-dark gray-very dense (Fill)	11		
	24		20
	50/2"		
582.78			
SILTY LOAM with CINDERS & GRAVEL-dark gray to black-very dense (Fill)	10		
	50/5"		12
-15			
580.28			
SLAG-black-very dense (Fill)	29		
	36		1
	50/0"		
577.78			
SILTY LOAM with CINDERS & GRAVEL-dark gray to black-very dense (Fill)	19		
	32		13
-20	44		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
575.28			
SANDY SILTY CLAY with GRAVEL -black-dense (Fill)	11		
	17		14
572.78	39		
CLAY LOAM-brown & gray-dense (Fill)	13		
	18	4.5	14
-25	25	P	
570.28			
SLAG with STEEL PIECES-very dense (Fill) 569.78	50/2"		
Auger Refusal @ -26.0'. Boring backfilled with cuttings.			1
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/25/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-25
Station 757+12
Offset 62.20ft Right
Ground Surface Elev. 598.12 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
597.12			
12.0" ASPHALT			
	5		
CLAYEY GRAVEL & SAND-brown-medium dense (Fill)	7		14
	8		
595.12			
CLAY LOAM-gray-hard (Fill)	6		
	8	6.6	14
-5	9	B	
592.62			
SANDY CLAY LOAM with GRAVEL-brown-medium dense (Fill)	5		
	7		11
	11		
590.12			
CRUSHED STONE-very dense (Fill)	50/5"		
-10			4
587.62			
SLAG-black-very dense (Fill)	15		
	50/0"		4
585.12			
SILTY LOAM with SAND & STONE-dark brown & black-medium dense to very dense (Fill)	16		
	21		13
-15	17		
	17		
	34		14
	18		
	20		
	21		13
-20	18		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY LOAM with SAND & STONE-dark brown & black-medium dense to very dense (Fill) *(continued)*	6		
	10		9
	17		
	8		
	24		23
-25	16		
572.62			
SILTY LOAM-gray-medium dense	9		
	11		12
	10		
	8		
	12		13
568.12 -30	13		
End Of Boring @ -30.0'. Boring backfilled with cuttings.			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/25/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-26
Station 757+91
Offset 62.20ft Right
Ground Surface Elev. 600.34 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
599.34			
12.0" ASPHALT			
	5		
CRUSHED STONE-medium dense	6		8
	7		
597.34			
SANDY CLAY LOAM with STONE-brown-medium dense to dense (Fill)	7		
	12		11
-5	13		
	11		
	12		10
	19		
592.34			
SLAG-black-dense (Fill)	12		
	21		1
-10	16		
589.84			
SANDY CLAY LOAM with STONE-black-dense to very dense (Fill)	16		
	50/1"		1
	14		
	29		11
-15	25		
584.84			
SILTY SAND, SLAG & STONE-black-very dense (Fill)	50/5"		
			8
582.34			
SANDY SILTY CLAY LOAM with STONE-dark gray to black-dense (Fill)	10		
	17		11
-20	23		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
579.84			
SILTY CLAY LOAM with STONE-dark gray to black-dense (Fill)	12		
	16		32
577.34	19		
CLAY LOAM-brown & gray-very stiff to hard	7		
	10	6.8	12
-25	15	B	
	7		
	7	2.5	16
becoming gray @ -28.0'.	3	B	
	4		
570.34 -30	7	3.5	17
	10	P	
End Of Boring @ -30.0'. Boring backfilled with cuttings.			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 305-9388

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/26/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-27
Station 758+72
Offset 61.70ft Right
Ground Surface Elev. 602.75 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT 601.75			
SANDY CLAY LOAM with STONE-brown-medium dense (Fill)	3		
	6		11
	7		
	4		
-5	5		12
	9		
597.25			
SILTY SAND, SLAG & STONE-medium dense to very dense (Fill)	4		
	4		6
	7		
	31		
-10	50/0"		12
	50/4"		8
589.75			
CLAY LOAM-brown & gray-very stiff (Fill)	5		
	6	3.5	15
-15	8	B	
	5		
	6	3.5	15
584.75	9	P	
SILT-gray-medium dense (Fill)	4		
	8		14
-20	12		
SILT-gray-medium dense (Fill) *(continued)*	4		
	5		17
	9	B	
579.75			
SANDY SILT with STONE-gray-dense (Fill)	6		
	21		14
-25	15		
577.25			
CLAY LOAM-brown & gray-hard (Fill)	8		
	12	4.5	15
	16	P	
	5		
	6	4.5	18
572.75 -30	8	P	
End Of Boring @ -30.0'. Boring backfilled with cuttings.			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

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Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 305-9388

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/26/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SE 1/4, SEC. 15, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-28
Station 759+51
Offset 60.50ft Right
Ground Surface Elev. 604.93 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 601.4 ft ▼
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT 603.93			
CRUSHED ASPHALT-medium dense	8		
	6		4
	5		
601.43 ▼			
CLAY LOAM-brown & gray-medium stiff to hard (Fill)	3		
	5	3.5	18
-5	6	P	
	4		
	5	2.2	19
	7	B	
	3		
	4	2.0	19
-10	5	B	
	3		
	4	2.5	19
	4	P	
	3		
	3	2.5	17
-15	3	P	
	4		
	5	2.8	16
	8	B	
	4		
	6	4.5	16
-20	11	P	
CLAY LOAM-brown & gray-medium stiff to hard (Fill) *(continued)*	5		
	6	2.0	16
	11	B	
	1		
	1	2.0	22
-25	2	P	
	0		
	0	2.5	21
	0	P	
	1		
	2	0.8	22
574.93 -30	4	B	
End Of Boring @ -30.0'. Boring backfilled with cuttings.			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

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FILE NAME:
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DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1066

USER NAME =		DESIGNED -	REVISED -
		CHECKED -	REVISED -
PLOT SCALE =		DRAWN -	REVISED -
PLOT DATE =	4/9/2020	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL 3 BORING LOGS
STRUCTURE NO. 099-W034
SHEET 6B OF 6 SHEETS

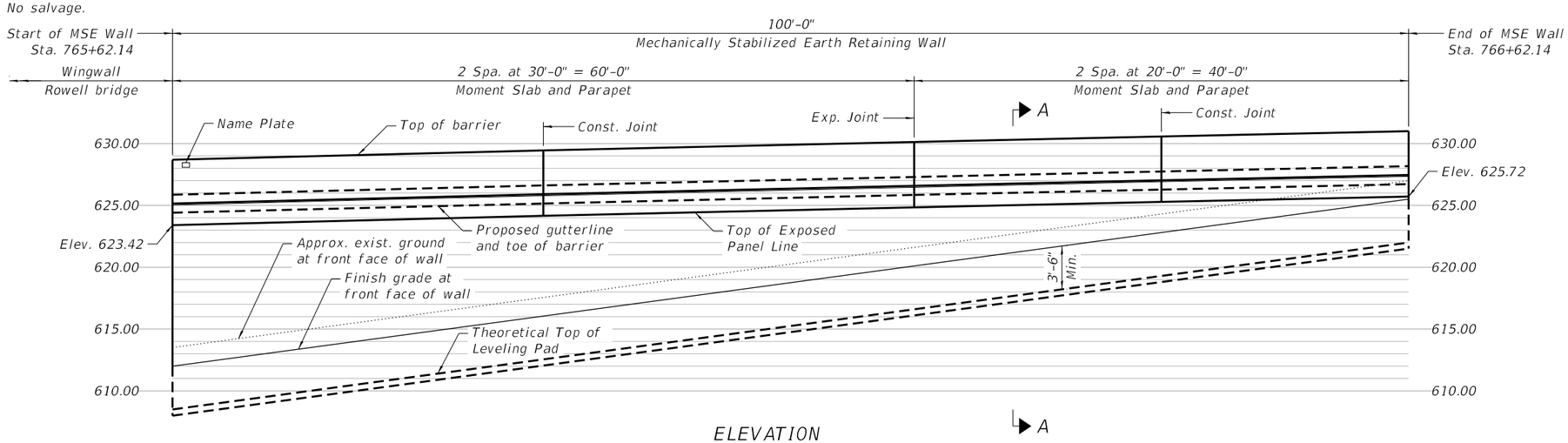
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	436B
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

Bench Mark: Chiseled "X" on the east step of the southeast wingwall of WB I-80, Elev. 624.41.

Existing Structure: None

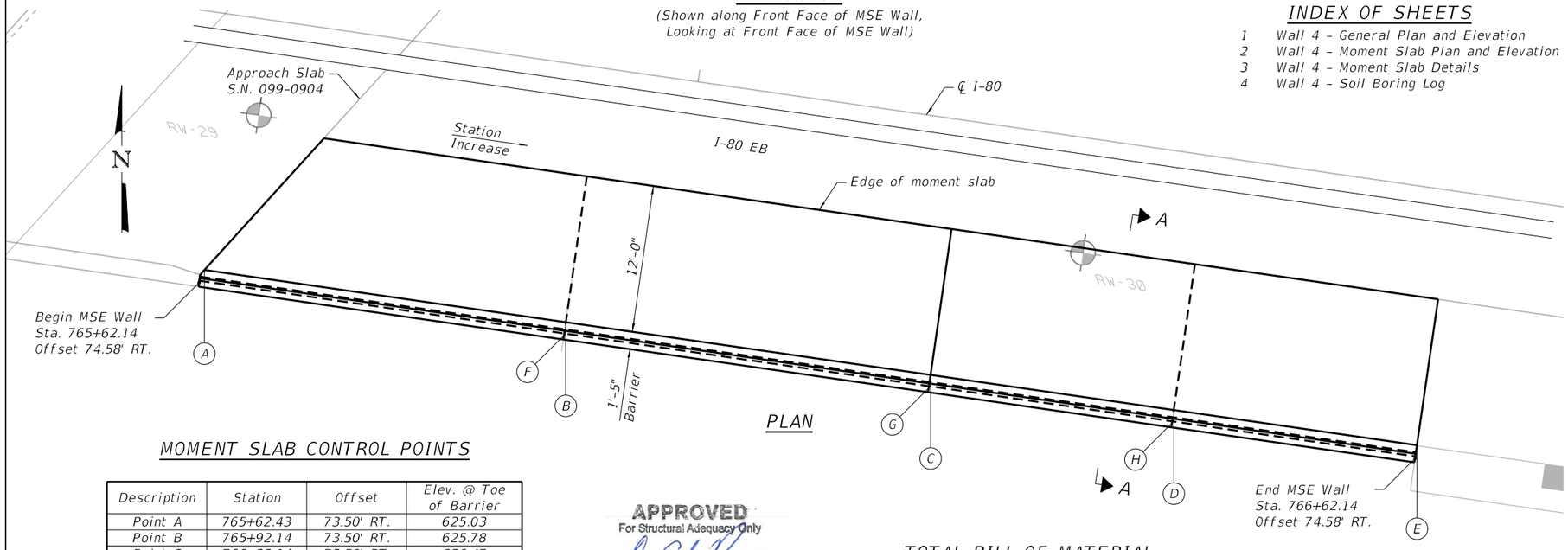
Staged construction shall be utilized to maintain traffic during construction.

No salvage.



ELEVATION

(Shown along Front Face of MSE Wall, Looking at Front Face of MSE Wall)



PLAN

GENERAL NOTES

1. Offsets are measured from ℄ I-80 to front face of MSE wall panels for MSE Wall Control Points.
2. Offsets are measured from ℄ I-80 to proposed gutter line and toe of the barrier for Moment Slab Control Points.
3. Slip forming of parapets will not be allowed.
4. For Section A-A, see Sheet 3 of 4.
5. Wall shall be built during Stage 2 Construction. See MOT plans for details.
6. Reinforcement bars designated (E) shall be epoxy coated.
7. CJ = Construction Joint, EJ = Expansion Joint

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES

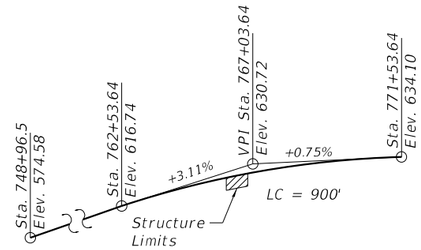
FIELD UNITS

f'c = 4,000 psi (Moment Slab and Parapet)
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

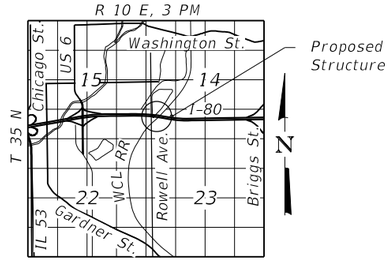
f'c = 4,500 psi (Precast Panels)

INDEX OF SHEETS



PROFILE GRADE PROP. I-80

(Along EB P.G.L.)



LOCATION SKETCH

MOMENT SLAB CONTROL POINTS

Description	Station	Offset	Elev. @ Toe of Barrier
Point A	765+62.43	73.50' RT.	625.03
Point B	765+92.14	73.50' RT.	625.78
Point C	766+22.14	73.50' RT.	626.47
Point D	766+42.14	73.50' RT.	626.91
Point E	766+62.14	73.50' RT.	627.34

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

MSE WALL CONTROL POINTS

Description	Station	Offset	T/ Exposed Panel Line Elev	Finished Grade Elev @ F.F. Wall	T/ Theoretical Leveling Pad Elev
Start	765+62.14	74.58' RT.	623.42	612.00	608.50
Point F	765+92.14	74.58' RT.	624.16	616.05	612.55
Point G	766+22.14	74.58' RT.	624.85	620.10	616.60
Point H	766+42.14	74.58' RT.	625.29	622.80	619.30
End	766+62.14	74.58' RT.	625.72	625.50	622.00

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	370.4
Concrete Superstructure	Cu. Yd.	67.2
Protective Coat	Sq. Yd.	183
Reinforcement Bars, Epoxy Coated	Pound	10,640
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	935

LICENSED STRUCTURAL ENGINEER
ROBERT V. SUTPHEN
081-004907
STATE OF ILLINOIS

SIGNED: RVS
DATE: 9/11/20
EXPIRES: November 30, 2020

GENERAL PLAN AND ELEVATION
EB I-80 WALL 4 @ ROWELL AVE
F.A.I. RTE 80 - SECTION 2013-008B
WILL COUNTY
STATION 765+62.14 TO 766+62.14
STRUCTURE NO. 099-W804

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1066

USER NAME =	DESIGNED - JMM	REVISED -	
	CHECKED - RVS	REVISED -	
PLOT SCALE =	DRAWN - JSK	REVISED -	
PLOT DATE = 4/27/2020	CHECKED - RVS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 4 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	437
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

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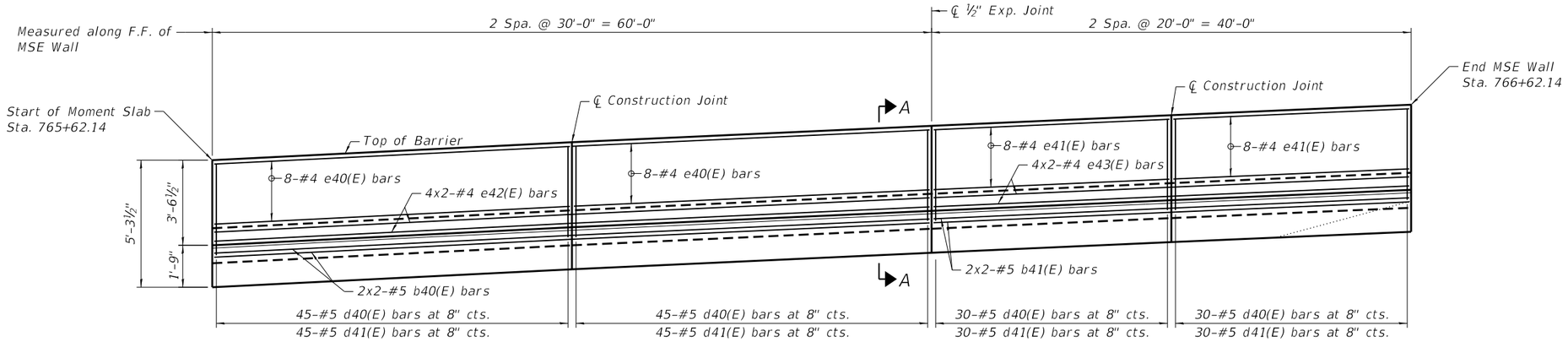
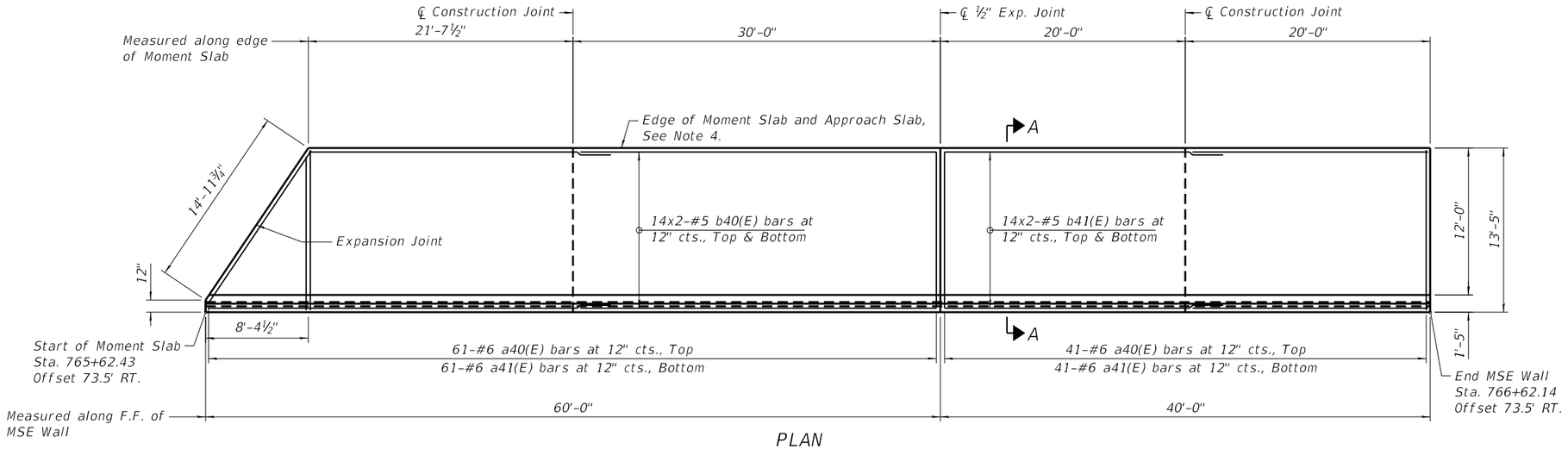


ELEVATION

(Looking North)



PLAN

(Reinforcement in parapet not shown for clairty)

Fan a40(E) and a41(E) bars at start of moment slab, as required. Min. spa. 2". Max. spa. 12"

MIN. LAP LENGTH

#4 Bar = 2'-8"
#5 Bar = 3'-6"

Notes:
1. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bar per line.
2. For control point station, offset, and elevations, see Sheet 1 of 4.
3. For detail of Section A-A Sheet 3 of 4.
4. For expansion joint details, see Sheet 3 of 4.
5. For Reinforcement Bars, Epoxy Coated Bill of Materials, see Sheet 3 of 4.

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1056

USER NAME =	DESIGNED - JMM	REVISED -	
	CHECKED - RVS	REVISED -	
PLOT SCALE =	DRAWN - JSK	REVISED -	
PLOT DATE = 4/27/2020	CHECKED - RVS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL 4 - MOMENT SLAB PLAN AND ELEVATION
STRUCTURE NO. 099-W804

SHEET 2 OF 4 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	438
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

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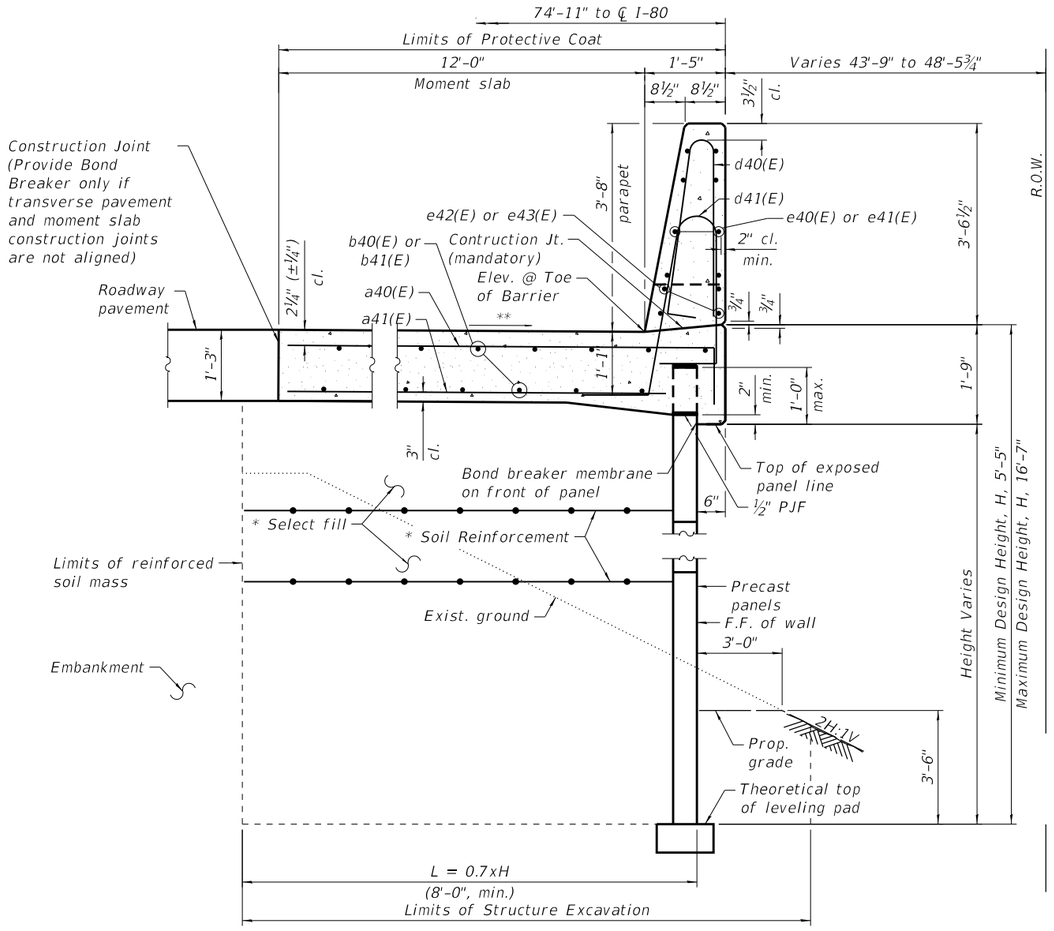
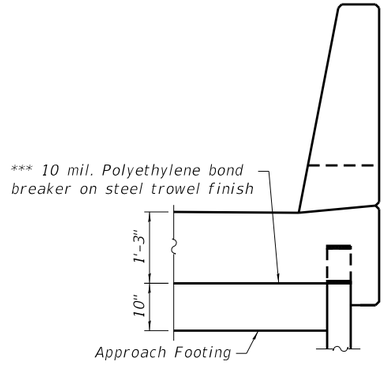


SECTION A-A

* The M.S.E. wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft. of wall.

** Shoulder slope varies from min. 0% to max. 3.7%. See Roadway Plans.



SECTION AT BRIDGE APPROACH SLAB

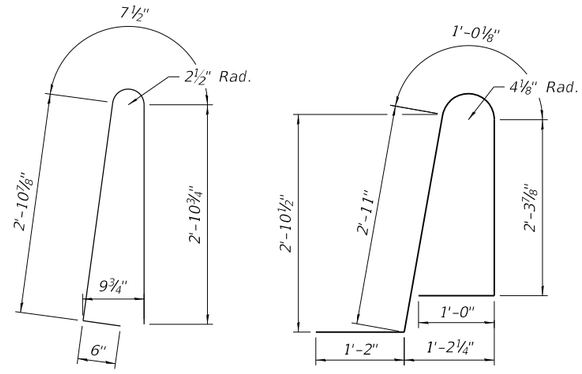
Flatten bottom of moment slab at bridge approach slab for 3'-0", min.

WALL 4
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a40(E)	102	#6	14'-5"	
a41(E)	102	#6	13'-1"	
b40(E)	60	#5	31'-7"	
b41(E)	60	#5	21'-7"	
d40(E)	150	#5	7'-0"	
d41(E)	150	#5	8'-5"	
e40(E)	16	#4	29'-8"	
e41(E)	16	#4	19'-8"	
e42(E)	8	#4	30'-10"	
e43(E)	8	#4	20'-10"	
Concrete Superstructure		Cu. Yd.	183	
Reinforcement Bars, Epoxy Coated		Pound	10,640	

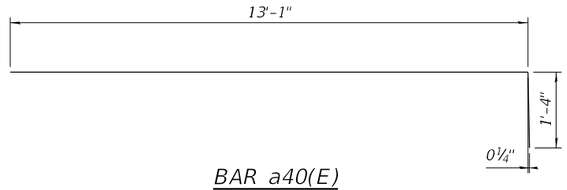
STATION 765+62.14 TO 766+62.14
BUILT BY
STATE OF ILLINOIS
F.A.I. RT. 80 SEC. 2013-008B
LOADING HL-93
STRUCTURE NO. 099-W804

NAME PLATE
See Std. 515001

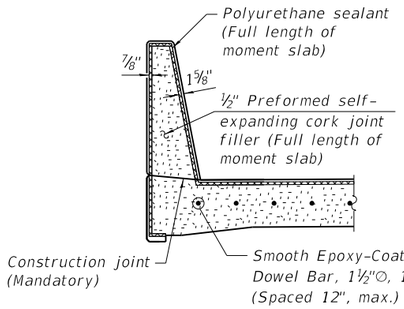


BAR d40(E)

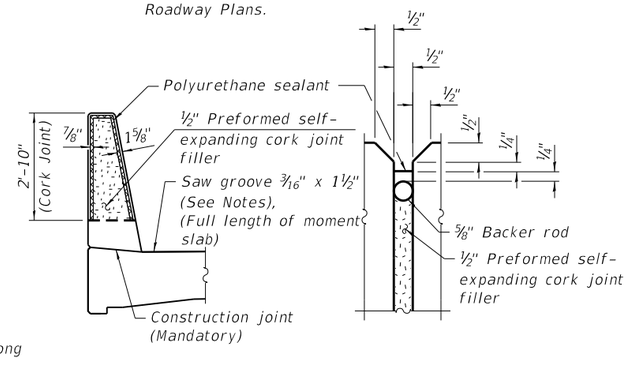
BAR d41(E)



BAR a40(E)



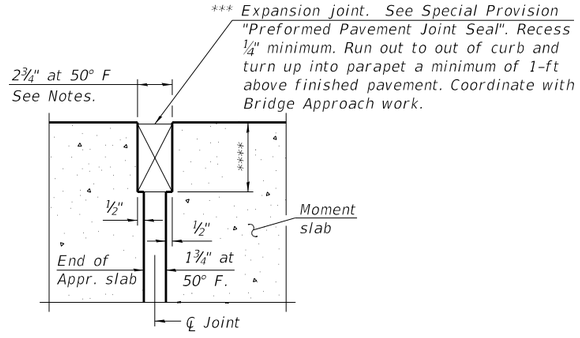
EXPANSION JOINT



CONSTRUCTION JOINT

BACKFACE PLAN

TRANSVERSE JOINT DETAILS



JOINT DETAIL AT APPROACH SLAB AND MOMENT SLAB

*** Cost included with Concrete Superstructure
**** Per manufacturer recommendations

Notes:
1. The polyurethane sealant shall be according to Article 1050.04 of the Standard Specifications and color shall be gray.
2. The saw groove shall use a hot pured joint sealer per Article 1050.02 of the Standard Specifications.

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 305-9388

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/16/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-29
Station 765+65
Offset 60.40ft Right
Ground Surface Elev. 623.07 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 620.6 ft ▼
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
622.07			
12.0" ASPHALT			
	18		
CRUSHED ASPHALT & STONE-medium dense	9		3
▼	10		
620.07			
CLAY LOAM-brown & gray spotted black-stiff to hard (Fill)	9		
-5	7	4.5	16
	8	P	
	6		
	9	4.5	16
	13	P	
	4		
	7	2.0	24
-10	10	P	
	4		
	5	2.5	21
	6	P	
	3		
	4	1.0	26
-15	5	P	
	7		
	8	2.5	26
	9	P	
	5		
-20	7	1.3	22
	8	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-brown & gray spotted black-stiff to hard (Fill) *(continued)*	5		
	6	3.0	19
	10	P	
	9		
-25	15	1.3	23
	11	B	
	6		
	7	1.5	26
	9	P	
595.07			
SAND-brown-loose	3		
	3		18
-30	4		
	3		
	3		16
-35	4		
	14		
586.07			
SILTY SAND & GRAVEL-brown-dense			
End Of Boring @ -40.0'. Boring backfilled with cuttings. 583.07 -40	15		11
	16		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 305-9388

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/16/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-30
Station 766+33
Offset 61.90ft Right
Ground Surface Elev. 624.53 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 622.0 ft ▼
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
623.53			
12.0" ASPHALT			
	5		
CRUSHED ASPHALT & STONE-medium dense (Fill)	6		8
▼	8		
621.53			
CLAY LOAM-brown-stiff to hard (Fill)	4		
-5	7	1.3	21
	10	B	
	5		
	6	2.5	18
	11	B	
	5		
	5	1.8	20
-10	7	B	
	4		
	4	1.5	23
	6	P	
	7		
	9	1.3	18
-15	14	B	
	6		
	7	4.5	19
	12	P	
	5		
-20	6	1.6	20
	11	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
604.03			
SANDY CLAY LOAM-brown-very loose to loose	2		
	3		27
	4		
	0		
-25	0		25
	1		
599.03			
SAND-brown-loose	2		
	2		17
	4		
	2		
	4		18
-30	4		
	3		
	3		19
-35	3		
	3		
587.53			
SAND & GRAVEL-brown-dense			
End Of Boring @ -40.0'. Boring backfilled with cuttings. 584.53 -40	12		7
	18		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 305-9388

SOIL BORING LOG

GSI Job No. 13125
Page 1 of 1
Date 3/17/20

ROUTE F.A.I RTE. 80 DESCRIPTION I-80 Phase II (Near Term) LOGGED BY TZ
SECTION 2013-008B & 2013-009B LOCATION SW 1/4, SEC. 14, TWP. T35N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RW-31
Station 767+01
Offset 62.10ft Right
Ground Surface Elev. 626.19 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
625.19			
12.0" ASPHALT			
	11		
CRUSHED STONE-medium dense	12		4
	6		
623.19			
CLAY LOAM-brown-stiff to very stiff	4		
	5	1.0	21
-5	6	B	
	7		
	10	2.6	15
	13	B	
	5		
	7	2.6	17
-10	8	B	
615.69			
COBBLES or BOULDERS-very dense	50/2"		
			10
613.19			
CLAY LOAM-brown-very stiff (Apparent Fill)	6		
	8	2.5	17
-15	11	P	
	8		
	9		22
	12		
	6		
-20	8	2.0	20
	9	P	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
605.69			
SAND-brown-medium dense	9		
	8		15
	6		
-25	7		11
	8		
	5		
	5		15
	6		
	5		
-30	6		14
	6		
	4		
	5		14
-35	5		
589.19			
SAND & GRAVEL-brown-medium dense			
	16		
End Of Boring @ -40.0'. Boring backfilled with cuttings. 586.19 -40	18		14
	10		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\13125 I-80 PHASE II (NEAR TERM)\13125 HNTB, I-80 PHASE II (NEAR TERM)\13125 BORING LOGS\13125_LOG.GPJ 4/3/20

FILE NAME:
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DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1066

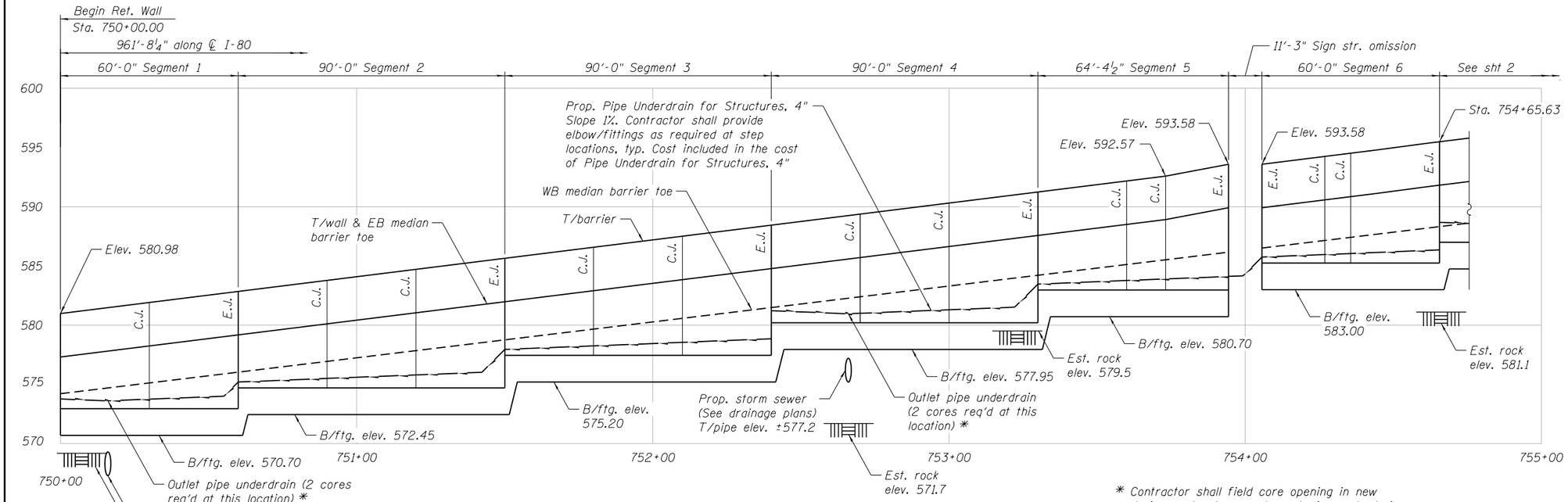
USER NAME =	DESIGNED - JMM	REVISED -	
	CHECKED - RVS	REVISED -	
PLOT SCALE =	DRAWN - JSK	REVISED -	
PLOT DATE = 4/27/2020	CHECKED - RVS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL 4 BORING LOGS
STRUCTURE NO. 099-W804
SHEET 4 OF 4 SHEETS

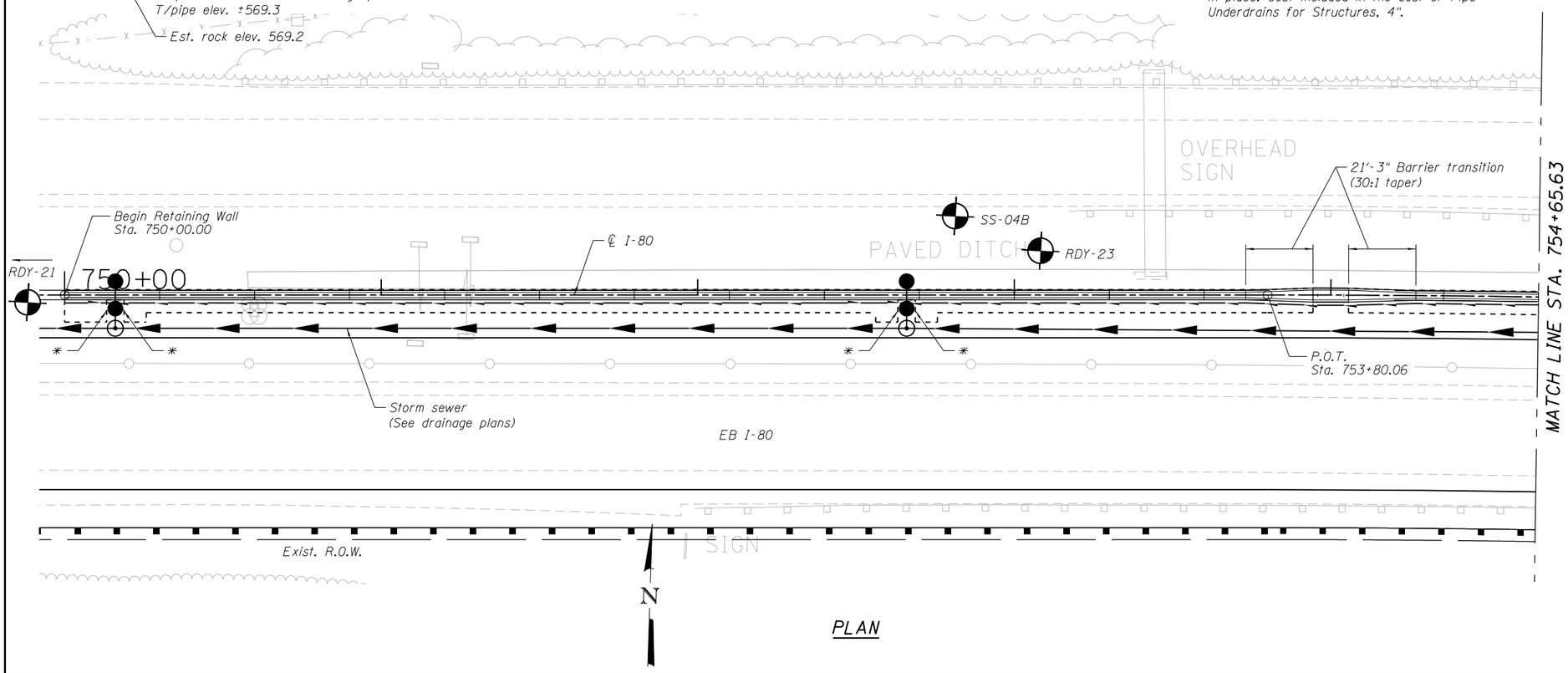
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	440
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

Benchmark: Chiseled "□" on the east step of the southeast wingwall of WB I-80. Elev. 624.41.



ELEVATION

* Contractor shall field core opening in new drainage structure, and grout pipe underdrain in place. Cost included in the cost of Pipe Underdrains for Structures, 4".



PLAN

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition, with 2013 Interims

DESIGN STRESSES

f'c = 3,500 psi
f'c = 4,000 psi (Superstructure concrete)
fy = 60,000 psi (Reinforcement)

STATE OF ILLINOIS
DANIEL S. FILICE
081-007107
CHICAGO, ILLINOIS
LICENSED STRUCTURAL ENGINEER

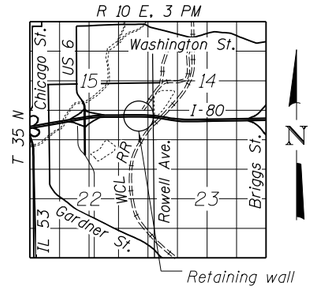
SIGNED: Dan Filice
DATE: June 26, 2020
EXPIRES: November 30, 2020

LEGEND

- Soil Boring
- Exist. R.O.W.
- Prop. R.O.W.

NOTES

1. Stations and offsets are measured relative to ℄ of I-80.
2. E.J. indicates expansion joint, C.J. indicates Construction Joint.
3. See Median Barrier Profile Roadway Plans 58-60 for profile details.



LOCATION SKETCH

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PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED	
PLOT DATE = 6/25/2020	CHECKED - DF	REVISED	

HBP Illinois Partners

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION I
STRUCTURE NO.
SHEET NO. 1 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	441
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

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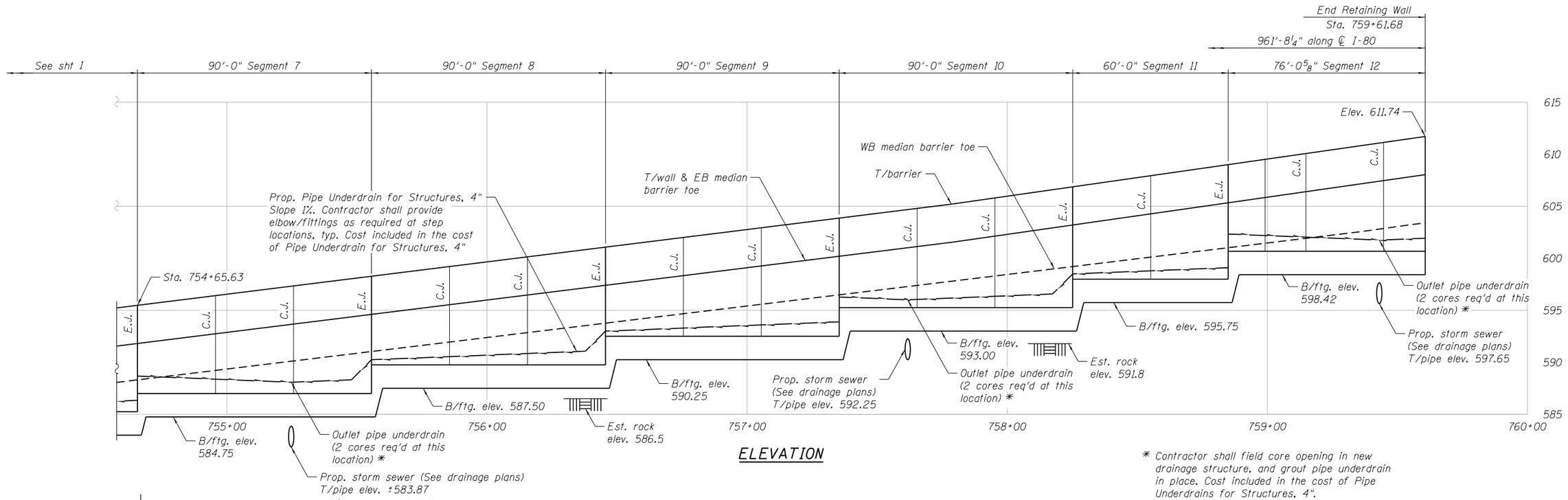
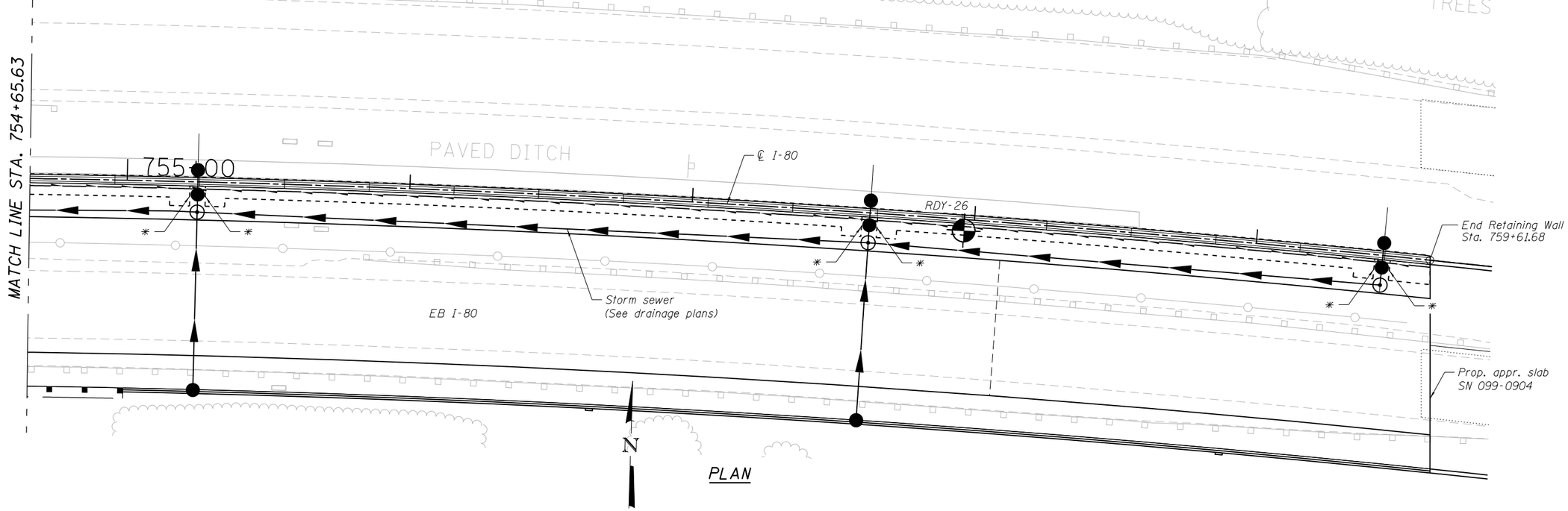


ELEVATION

* Contractor shall field core opening in new drainage structure, and grout pipe underdrain in place. Cost included in the cost of Pipe Underdrains for Structures, 4".



PLAN

HBP Illinois Partners	USER NAME = default	DESIGNED - MMZ	REVISED
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	PLOT DATE = 6/25/2020	CHECKED - DF	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION II
STRUCTURE NO.
SHEET NO. 2 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	442
			CONTRACT NO. 60W34	
	ILLINOIS	FED. AID PROJECT		

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GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The allowable soil bearing capacity required shall be a minimum of 2,800 p.s.f. (The factored bearing resistance required shall be a minimum of 3,500 p.s.f.). Contractor shall verify soil properties and notify the Engineer if bearing values are not encountered at bottom of footing elevations.

All exposed concrete edges shall have a $\frac{3}{4}$" x 45° chamfer U.N.O. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground elevation.

Dimensions shown to ℄ of joints. Contractor shall make necessary formwork adjustments for each panel.

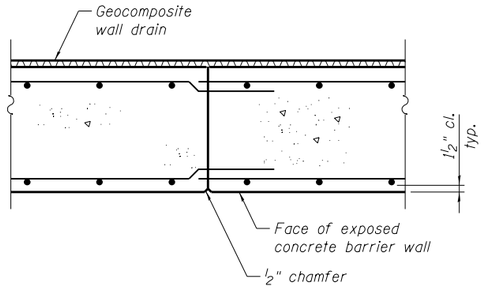
6" compacted CA-6 material will not be measured for payment, but shall be included in the cost of Concrete Structures (Retaining Wall).

Stations and offsets are measured relative to ℄ of I-80. See Median Barrier Profile Roadway Plans 58-60 for profile details.

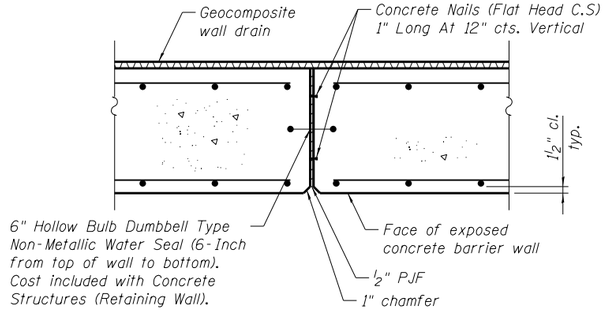
INDEX OF SHEETS

TOTAL BILL OF MATERIAL

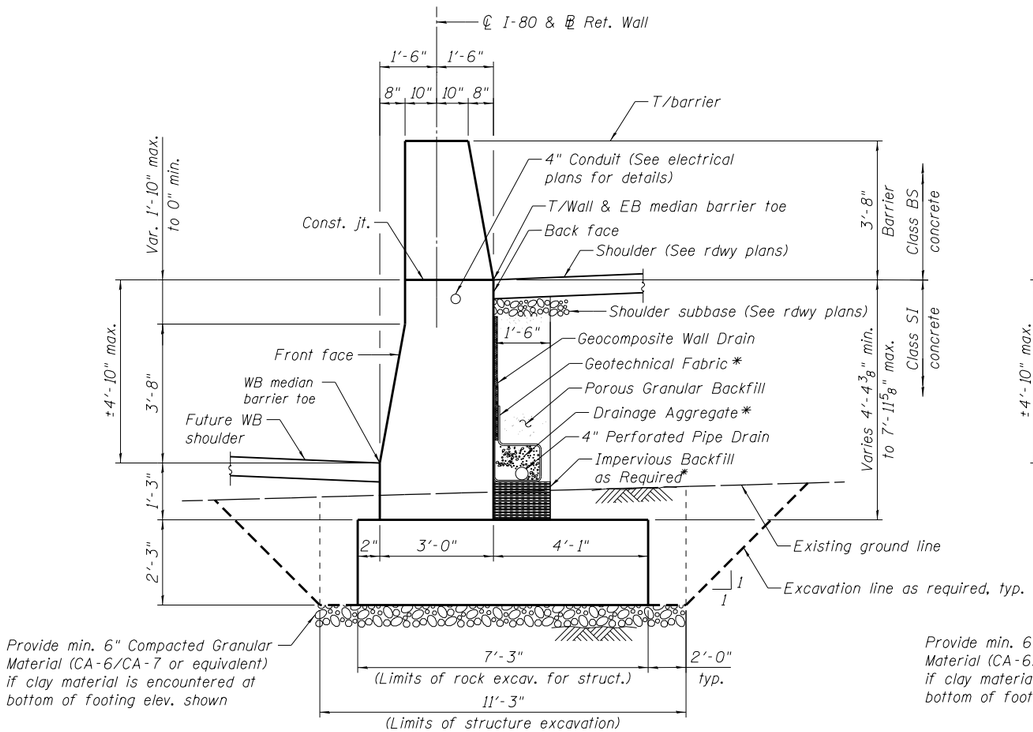
ITEM	UNIT	TOTAL
Rock Excavation for Structures	Cu Yd	30.0
Concrete Superstructure	Cu Yd	273.9
Protective Coat	Sq Ft	1,479
Reinforcement Bars, Epoxy Coated	Pound	105,400
Concrete Structures (Retaining Wall)	Cu Yd	1,171.5
Geocomposite Wall Drain	Sq Yd	521
Granular Backfill for Structures	Cu Yd	565.4
Pipe Underdrains for Structures, 4"	Foot	970



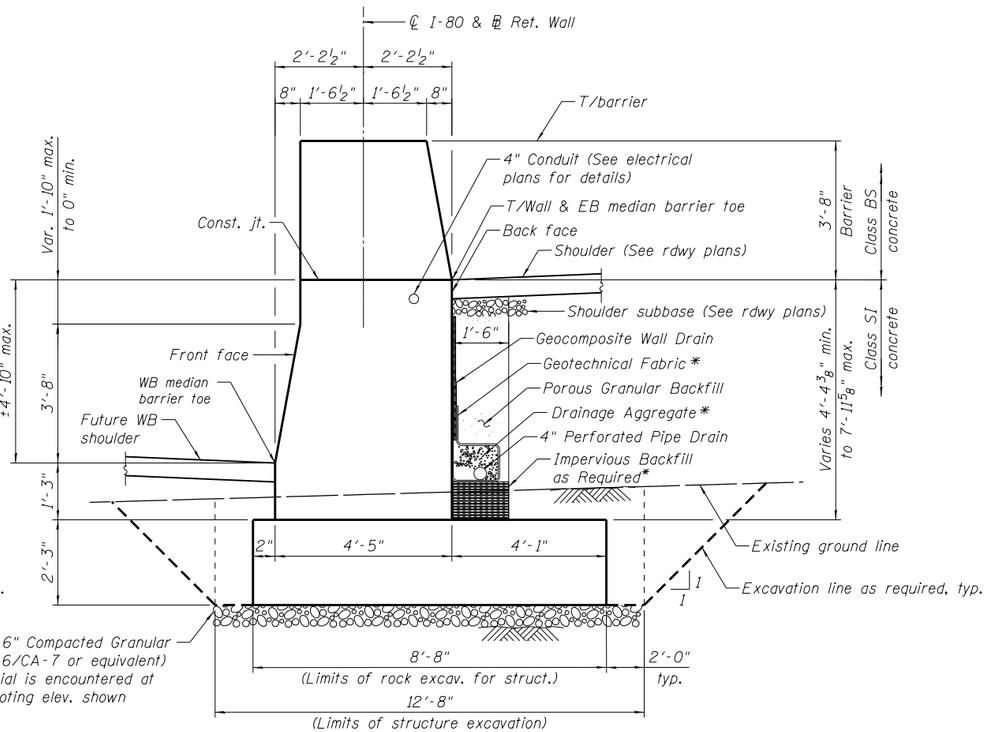
CONTRACTION JOINT DETAIL



EXPANSION JOINT DETAIL



SECTION A-A
(Showing dimensions)



SECTION B-B
(Showing dimensions)

* Cost included in the cost of Pipe Underdrains for Structures, 4"

USER NAME = default	DESIGNED - MMZ	REVISED	
	CHECKED - DF	REVISED	
PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED	
PLOT DATE = 6/25/2020	CHECKED - DF	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO.
SHEET NO. 3 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	443
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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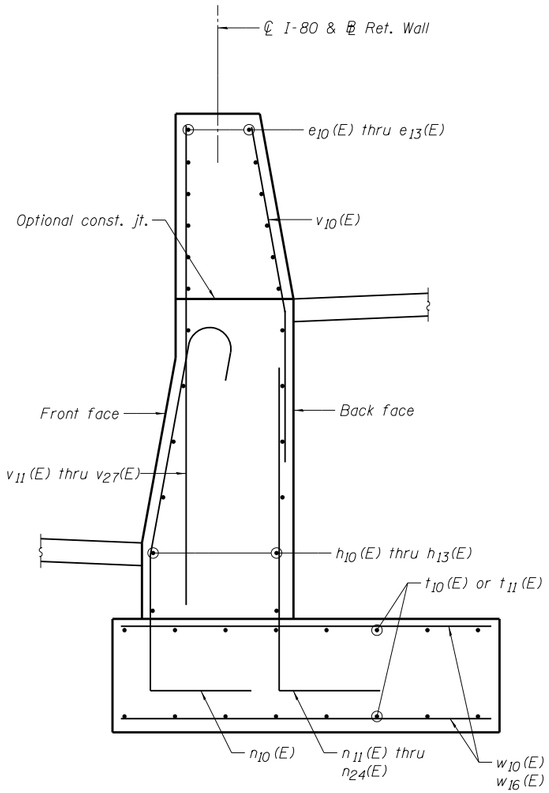
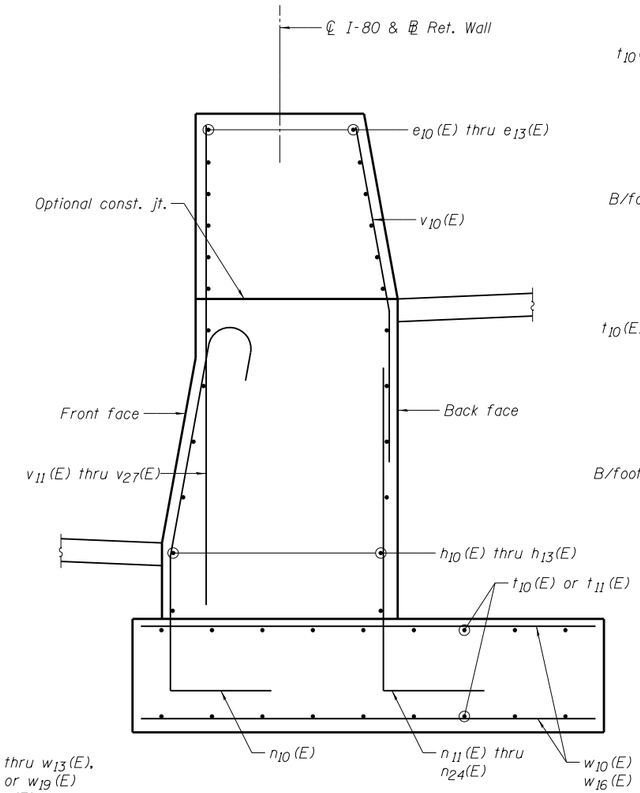
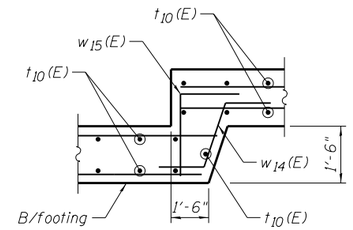


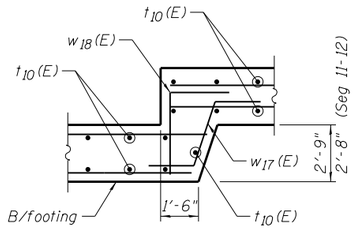
SECTION A-A
(Showing reinforcement)



SECTION B-B
(Showing reinforcement)



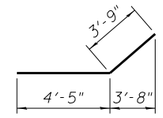
DETAIL 1



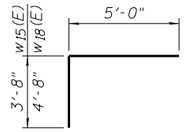
DETAIL 2

NOTES

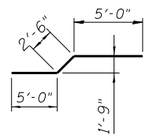
1. See sheet 215 for ITS conduit information. Contractor shall verify all conduit locations as approved by the Engineer, and quantity of reinforcement required.



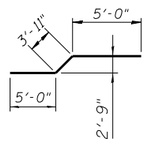
BARS v10(E)



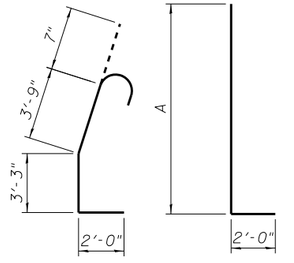
BARS w15(E) & w18(E)



BAR w14(E)

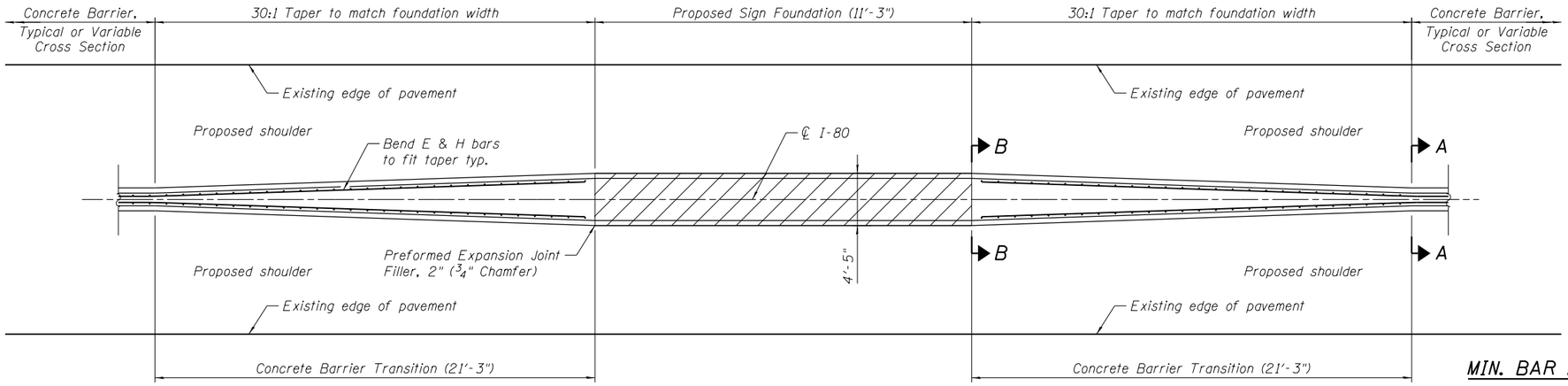


BAR w17(E)



	A
n11(E)	6'-5"
n12(E)	7'-4"
n13(E)	8'-3"
n14(E)	6'-7"
n15(E)	7'-6"
n16(E)	8'-5"
n17(E)	6'-10"
n18(E)	7'-9"
n19(E)	8'-9"
n20(E)	6'-11"
n21(E)	7'-11"
n22(E)	8'-10"
n23(E)	6'-9"
n24(E)	7'-10"

BARS n10(E) BARS n11(E) thru n24(E)



CONCRETE BARRIER TRANSITION DETAIL

MIN. BAR LAP

#4 - 2'-5"
#5 - 3'-3"

REINFORCING BAR SCHEDULE

BAR	NO.	SIZE	LENGTH	SHAPE
e10(E)	72	#4	31'-1"	
e11(E)	252	#4	31'-7"	
e12(E)	24	#4	33'-3"	
e13(E)	36	#4	26'-11"	
h10(E)	92	#5	31'-6"	
h11(E)	360	#5	32'-1"	
h12(E)	32	#5	33'-8"	
h13(E)	48	#5	23'-7"	
n10(E)	982	#5	9'-7"	⌐
n11(E)	62	#6	8'-5"	L
n12(E)	93	#6	9'-4"	L
n13(E)	31	#6	10'-3"	L
n14(E)	124	#6	8'-7"	L
n15(E)	128	#6	9'-6"	L
n16(E)	93	#6	10'-5"	L
n17(E)	62	#6	8'-10"	L
n18(E)	62	#6	9'-9"	L
n19(E)	62	#6	10'-9"	L
n20(E)	62	#6	8'-11"	L
n21(E)	62	#6	9'-11"	L
n22(E)	79	#6	10'-10"	L
n23(E)	31	#6	8'-9"	L
n24(E)	31	#6	9'-10"	L
t10(E)	1686	#5	6'-11"	
t11(E)	188	#5	9'-11"	
t12((E	40	#6	9'-11"	
v10(E)	982	#6	8'-2"	
v11(E)	62	#5	7'-11"	
v12(E)	93	#5	8'-10"	
v13(E)	124	#5	9'-11"	
v14(E)	62	#5	8'-1"	
v15(E)	62	#5	9'-0"	
v16(E)	31	#5	8'-2"	
v17(E)	35	#5	9'-1"	
v18(E)	62	#5	8'-3"	
v19(E)	31	#5	9'-2"	
v20(E)	62	#5	8'-4"	
v21(E)	62	#5	9'-3"	
v22(E)	62	#5	10'-3"	
v23(E)	62	#5	8'-5"	
v24(E)	62	#5	9'-5"	
v25(E)	62	#5	10'-4"	
v26(E)	31	#5	9'-4"	
v27(E)	17	#5	10'-5"	
w10(E)	360	#5	33'-3"	
w11(E)	16	#5	23'-10"	
w12(E)	48	#5	6'-8"	
w13(E)	14	#5	12'-11"	
w14(E)	16	#5	12'-6"	⌐
w15(E)	16	#5	8'-8"	⌐
w16(E)	16	#5	32'-1"	
w17(E)	64	#5	13'-11"	⌐
w18(E)	64	#5	9'-8"	⌐
w19(E)	32	#5	33'-8"	
w20(E)	32	#5	29'-10"	
w21(E)	8	#5	30'-6"	
w22(E)	8	#5	24'-4"	
w23(E)	16	#5	31'-5"	
w24(E)	24	#5	27'-5"	
w25(E)	14	#5	14'-6"	
w26(E)	8	#5	23'-2"	

HBP Illinois Partners

USER NAME = default	DESIGNED - MMZ	REVISED
	CHECKED - DF	REVISED
PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED
PLOT DATE = 6/25/2020	CHECKED - DF	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTIONS & DETAILS
STRUCTURE NO.
SHEET NO. 4 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	444
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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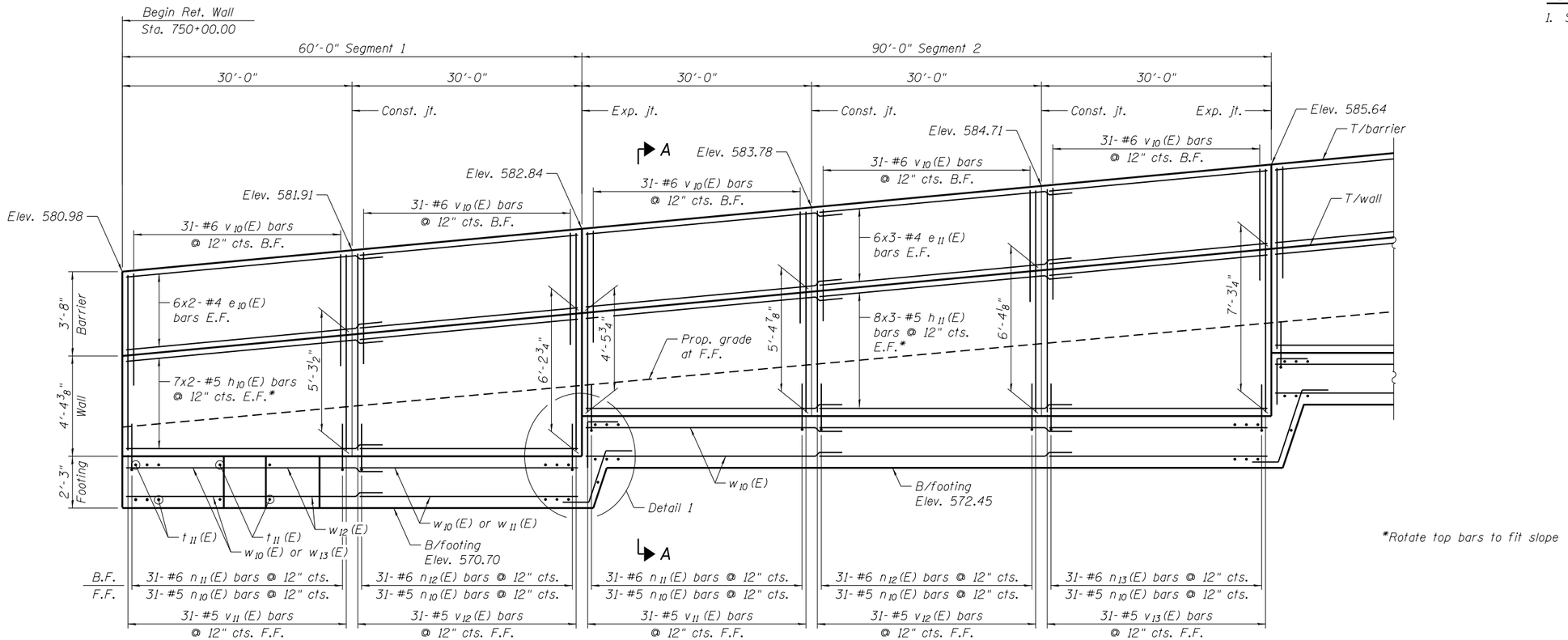
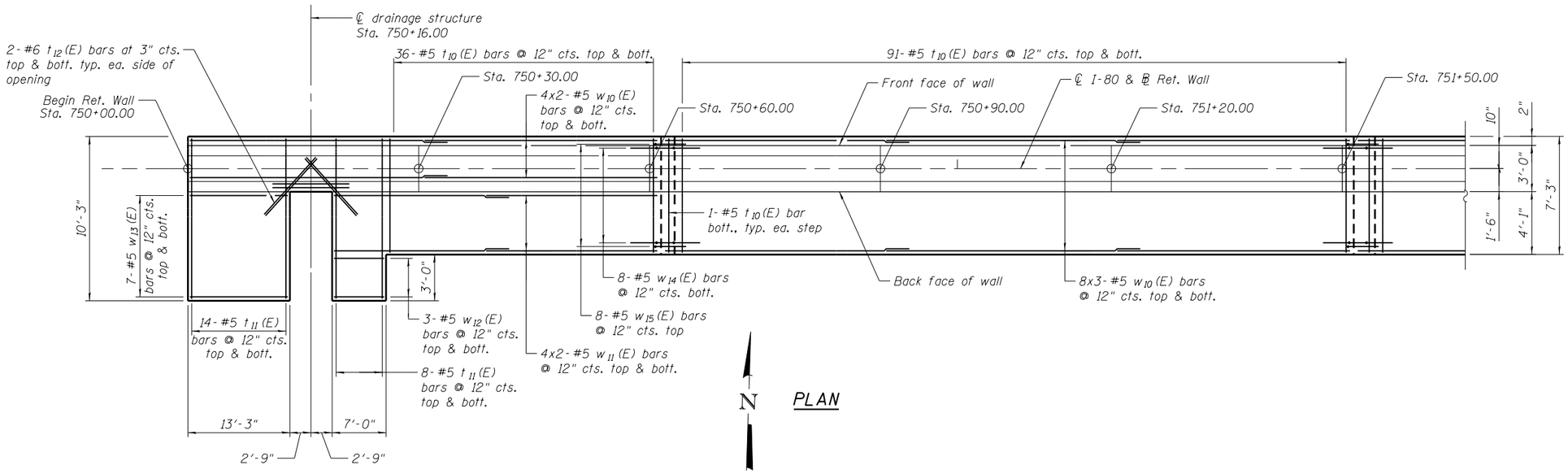
NOTES

1. See sheet 4 of 10 for sections and details.



*Rotate top bars to fit slope

ELEVATION



PLAN

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PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED	
PLOT DATE = 6/25/2020	CHECKED - DF	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILED PLAN & ELEVATION I
STRUCTURE NO.
SHEET NO. 5 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	445
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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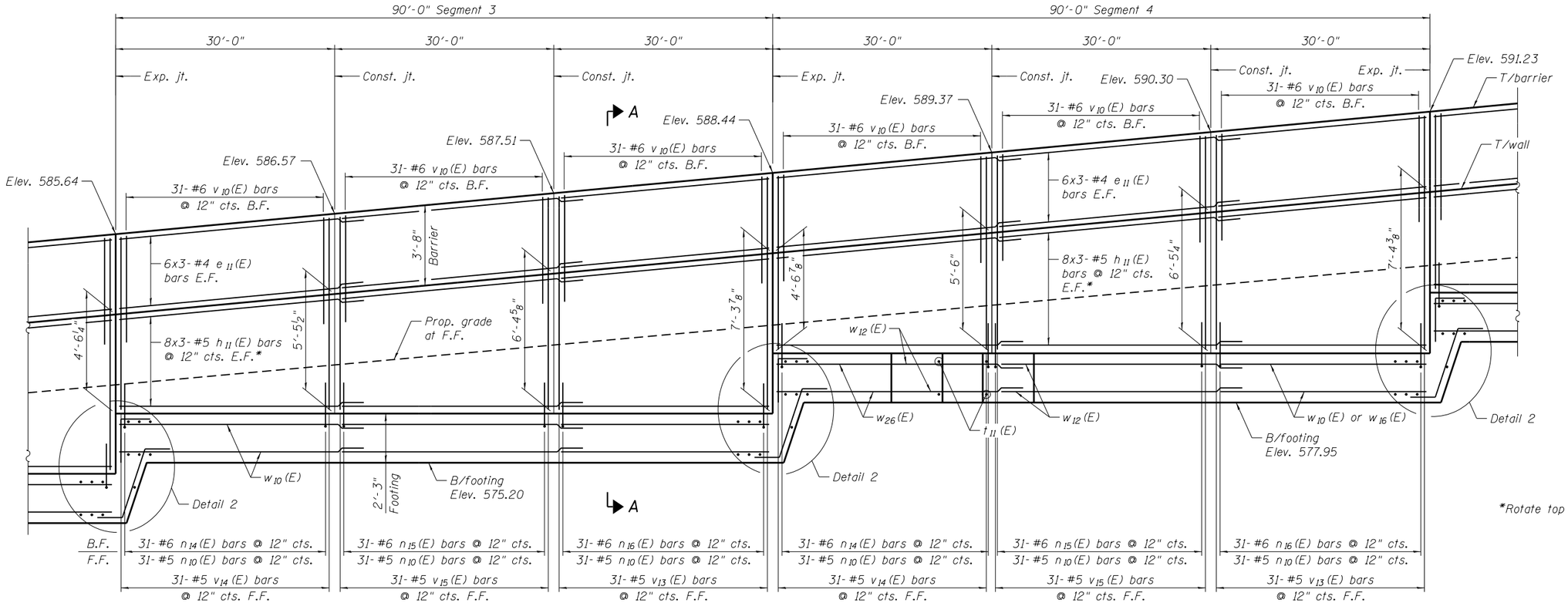
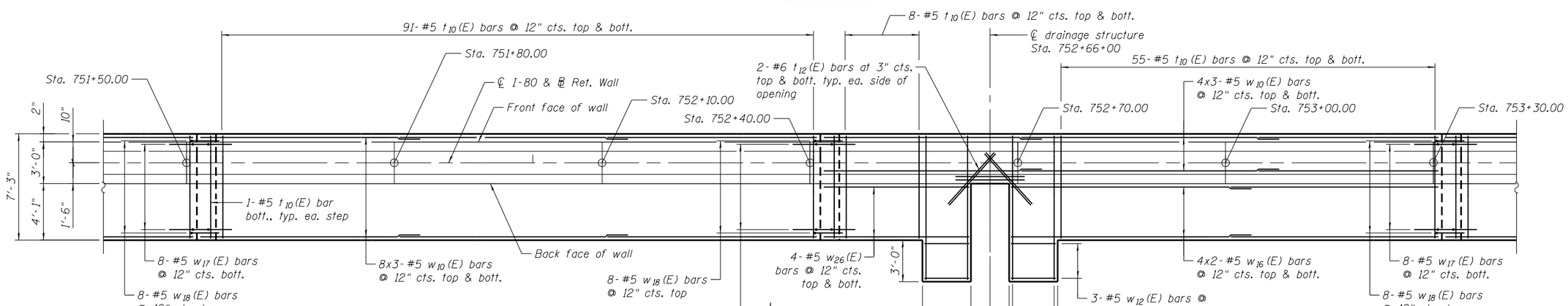
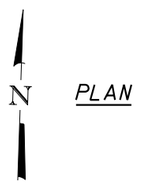


ELEVATION



PLAN



NOTES

1. See sheet 4 of 10 for sections and details.

USER NAME = default	DESIGNED - MMZ	REVISED	
	CHECKED - DF	REVISED	
PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED	
PLOT DATE = 6/25/2020	CHECKED - DF	REVISED	

HBP Illinois Partners

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILED PLAN & ELEVATION II
STRUCTURE NO.
SHEET NO. 6 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	446
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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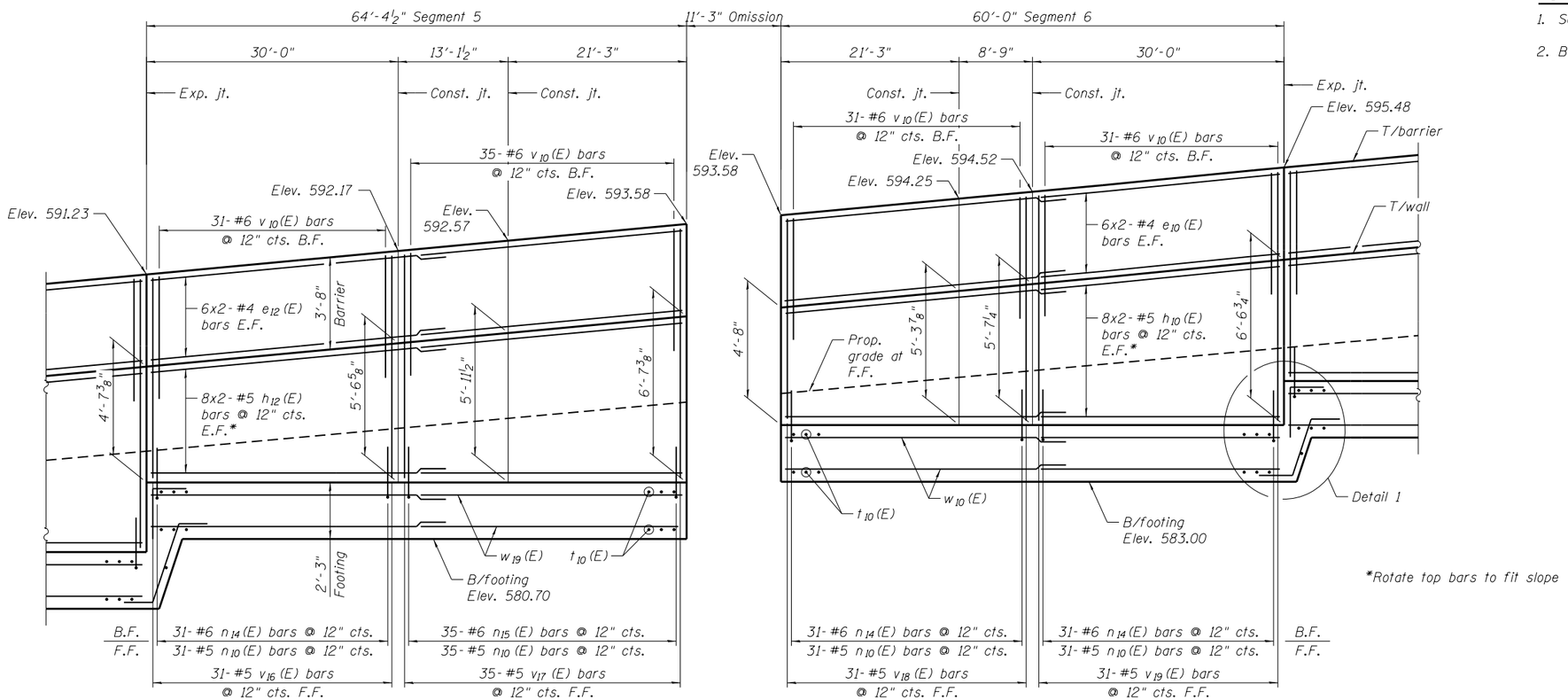
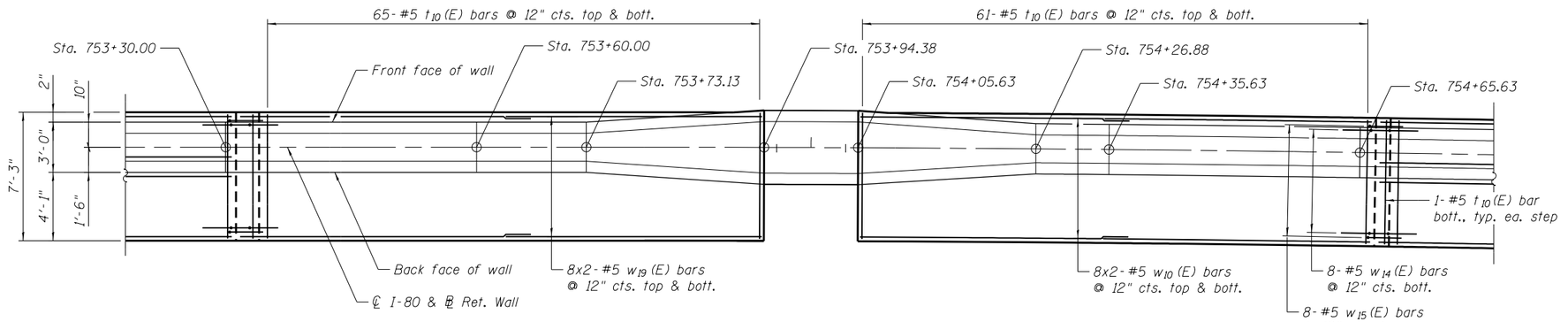


*Rotate top bars to fit slope

NOTES

1. See sheet 4 of 10 for sections and details.
2. Bend e & h bars to fit taper.

ELEVATION



PLAN

N

USER NAME = default	DESIGNED - MMZ	REVISED	
	CHECKED - DF	REVISED	
PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED	
PLOT DATE = 6/25/2020	CHECKED - DF	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILED PLAN & ELEVATION III
STRUCTURE NO.
SHEET NO. 7 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	447
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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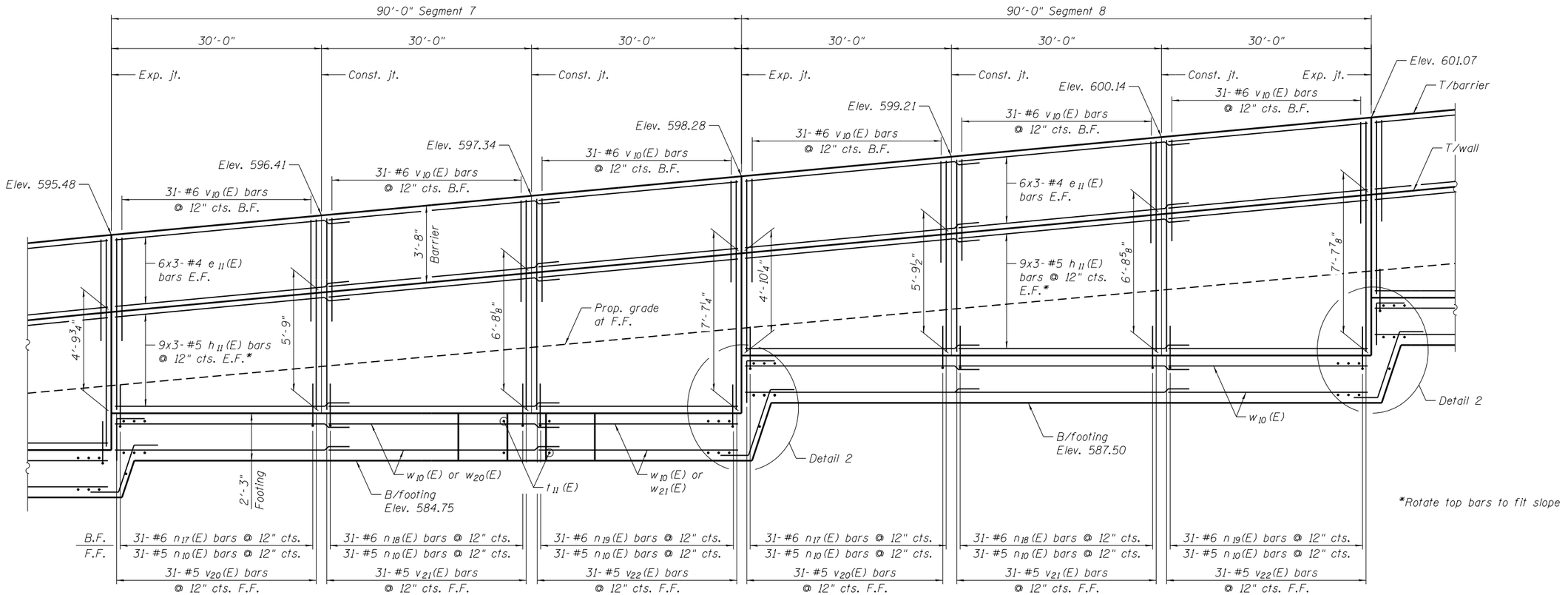
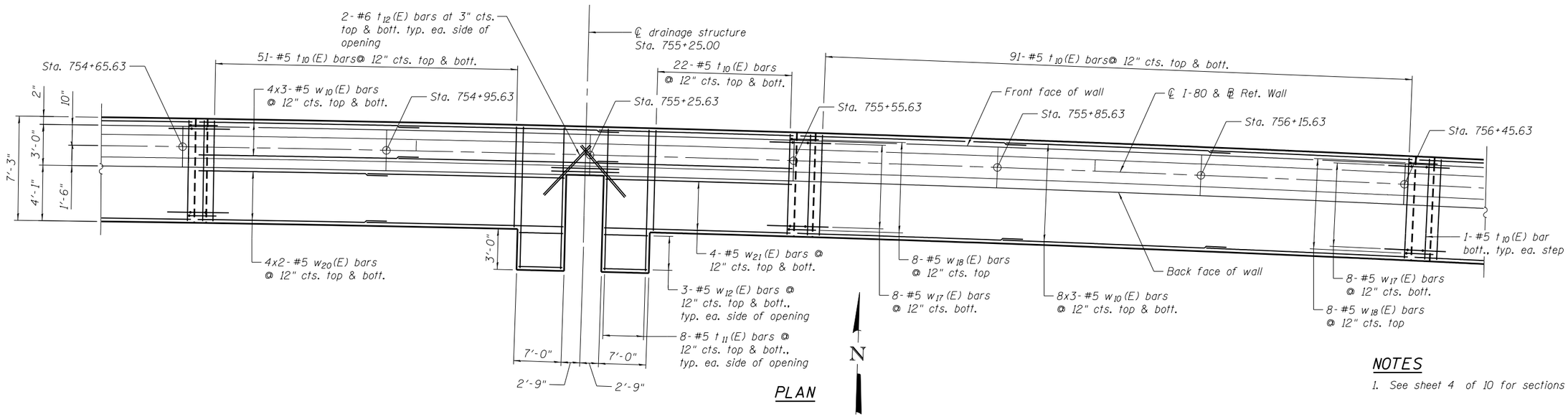


ELEVATION



PLAN

NOTES

1. See sheet 4 of 10 for sections and details.

HBP Illinois Partners	USER NAME = default	DESIGNED - MMZ	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILED PLAN & ELEVATION IV STRUCTURE NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - DF	REVISED			80	2013-008B	WILL	511	448
	PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED					CONTRACT NO. 60W34		
	PLOT DATE = 6/25/2020	CHECKED - DF	REVISED		SHEET NO. 8 OF 10 SHEETS			ILLINOIS FED. AID PROJECT		

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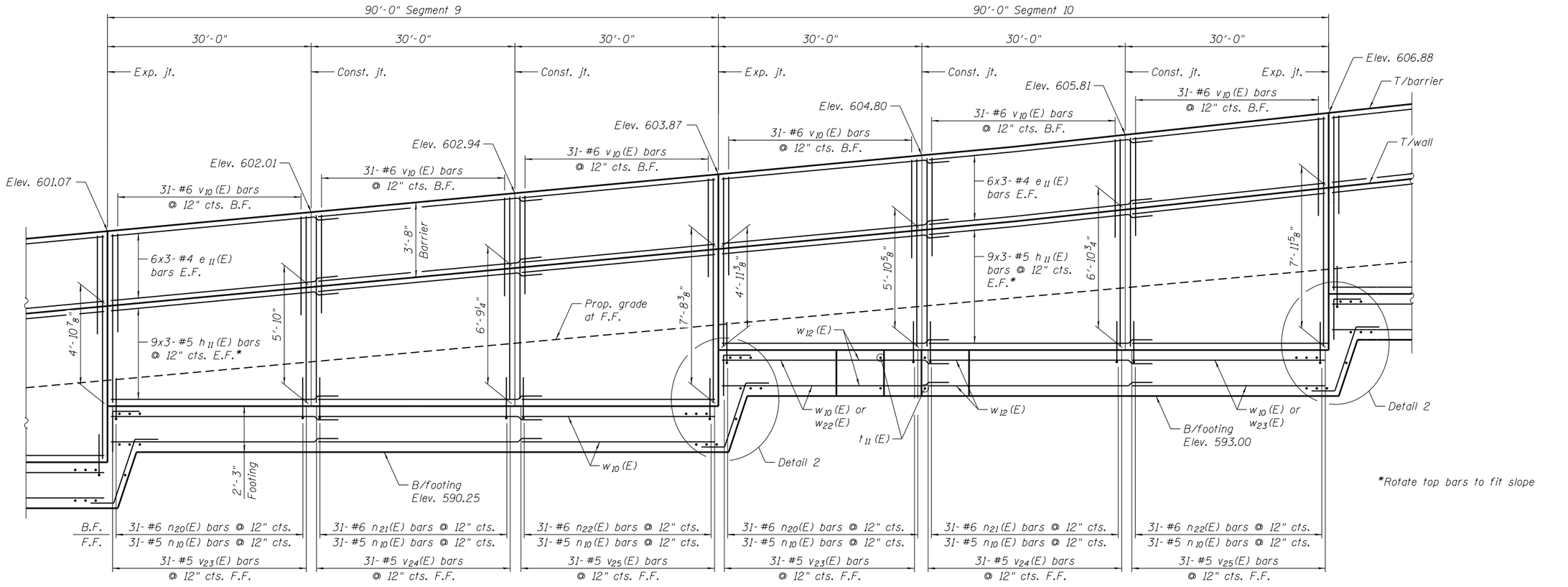
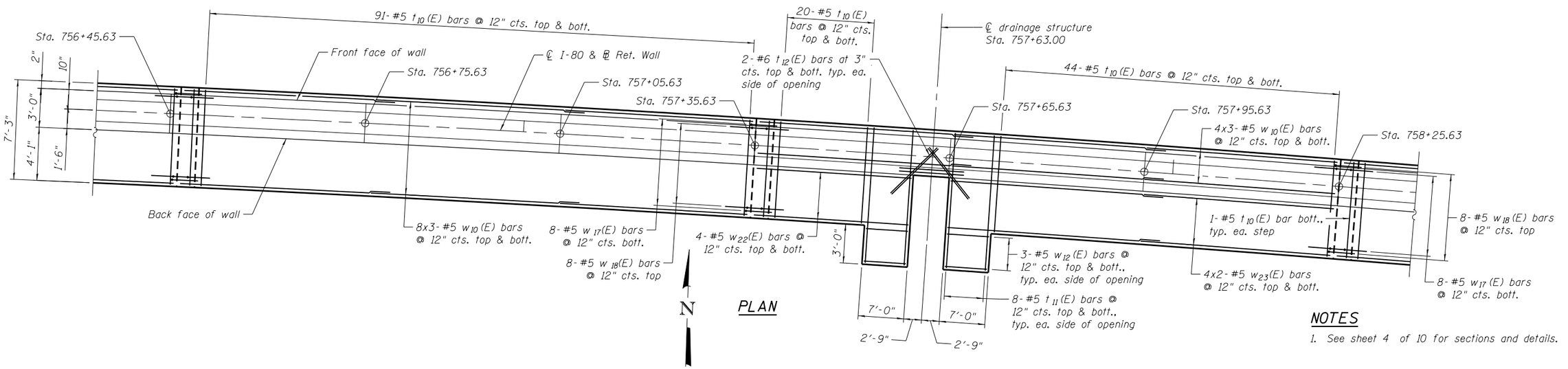


*Rotate top bars to fit slope

ELEVATION



PLAN

NOTES

1. See sheet 4 of 10 for sections and details.

USER NAME = default	DESIGNED - MMZ	REVISED	
	CHECKED - DF	REVISED	
PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED	
PLOT DATE = 6/25/2020	CHECKED - DF	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILED PLAN & ELEVATION V
STRUCTURE NO.
SHEET NO. 9 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	449
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

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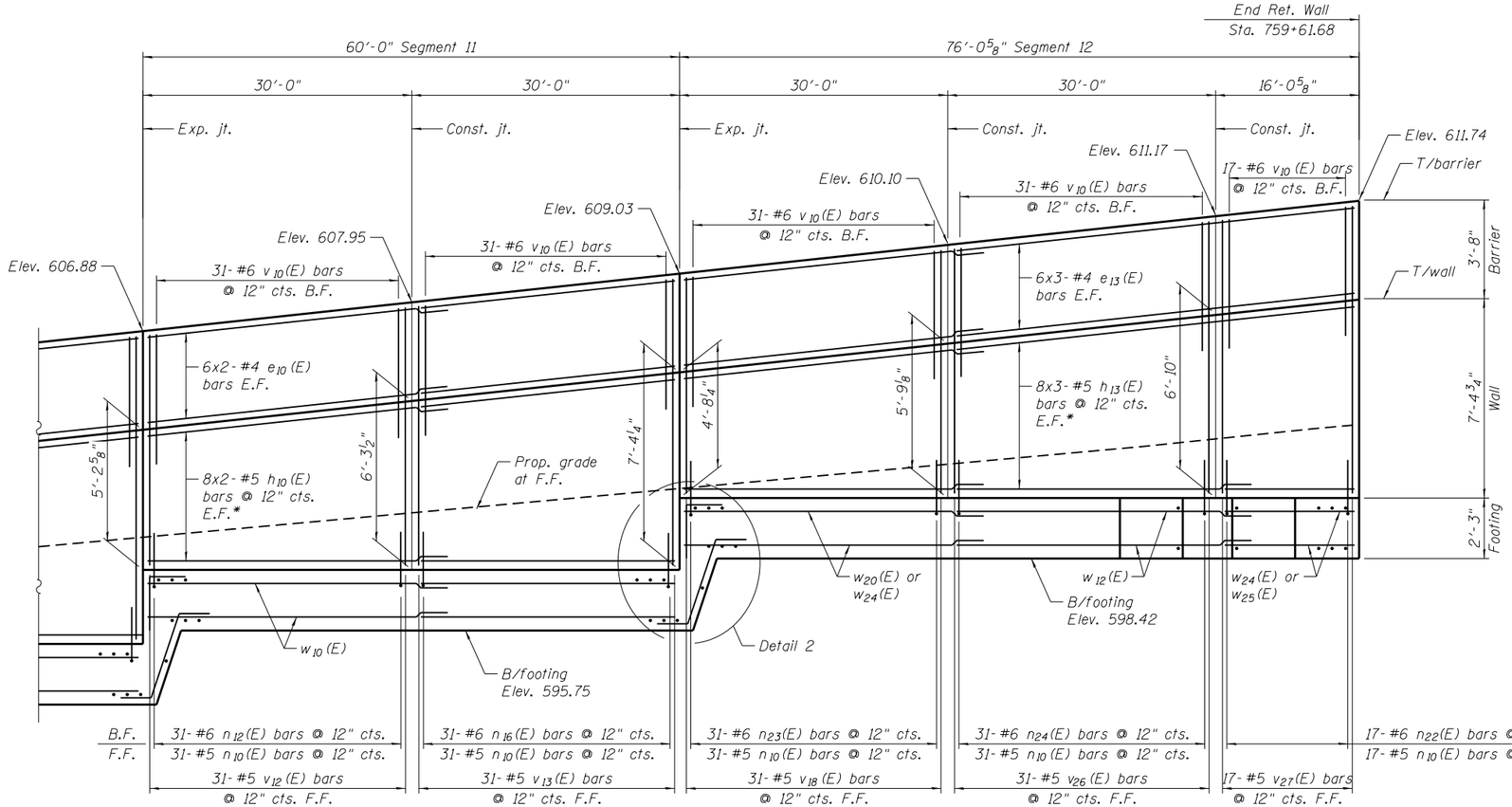
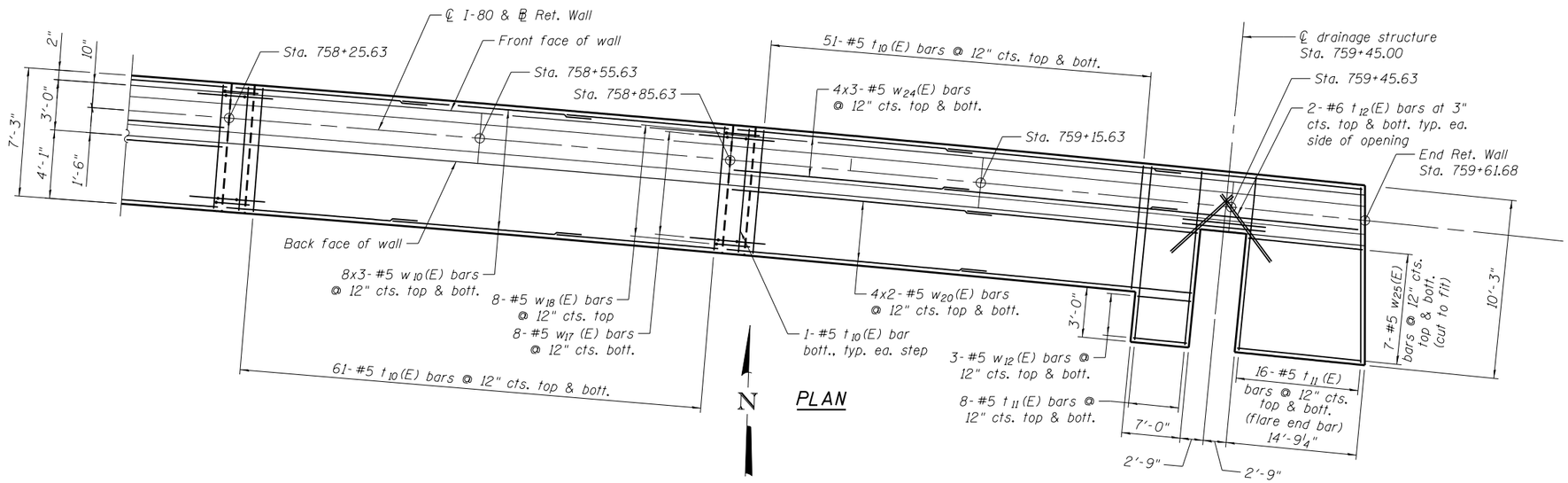


ELEVATION

NOTES

1. See sheet 4 of 10 for sections and details.

*Rotate top bars to fit slope



PLAN

HBP Illinois Partners	USER NAME = default	DESIGNED - MMZ	REVISED
		CHECKED - DF	REVISED
	PLOT SCALE = $SCALE$	DRAWN - LAM	REVISED
	PLOT DATE = 6/25/2020	CHECKED - DF	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILED PLAN & ELEVATION VI
STRUCTURE NO.
SHEET NO. 10 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	450
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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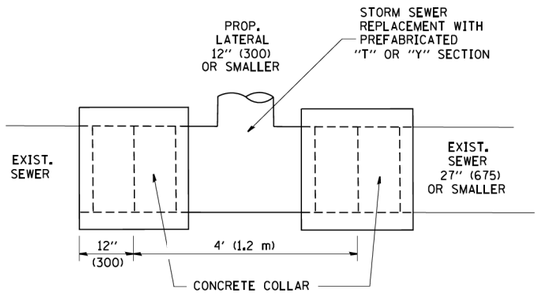
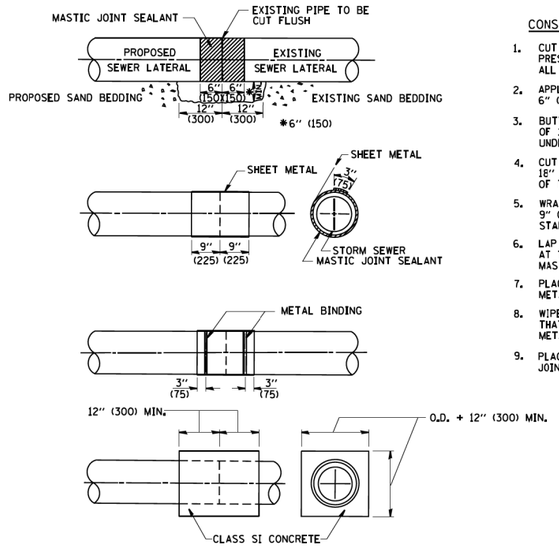


DETAIL "A"

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

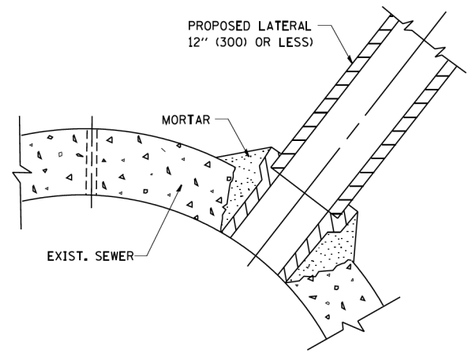


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

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



DETAIL "C"

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

NOTES

MATERIAL

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

CONSTRUCTION METHODS

I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:

A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".

B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

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

GENERAL

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

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

BASIS OF PAYMENT

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

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

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

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

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD500-01 (BD-7)	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

USER NAME = default	DESIGNED -		REVISED -
	DRAWN -		REVISED -
PLOT SCALE = $SCALE$	CHECKED -		REVISED -
PLOT DATE = 6/24/2020	DATE -	6/25/2020	REVISED -

HBP Illinois Partners

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB I-80 FROM GARDNER STREET TO ROWELL AVENUE
DISTRICT ONE DETAILS

SCALE: N/A | SHEET 1 OF 20 SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	451
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

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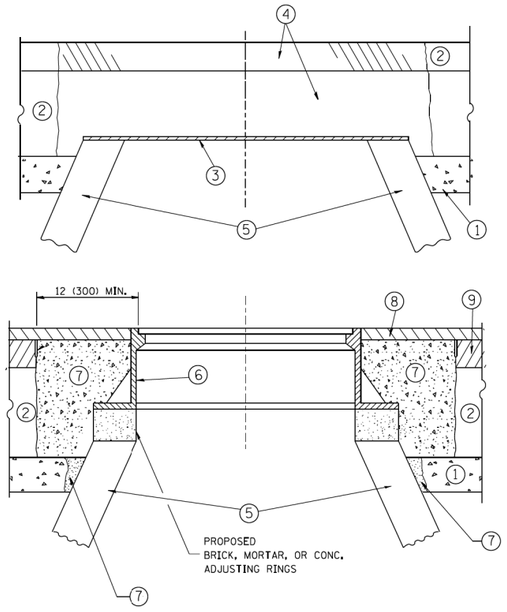


NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

1. SUB-BASE GRANULAR MATERIAL
2. EXISTING PAVEMENT
3. 36 (900) DIAMETER METAL PLATE
4. PROPOSED CRUSHED STONE AND HMA SURFACE MIX
5. EXISTING STRUCTURE
6. FRAME AND LID (SEE NOTES)
7. CLASS PP-1* CONCRETE
8. PROPOSED HMA SURFACE COURSE
9. PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = c:\pw_work\pwidot\bauerd1\d0108315\bd08.dgn	USER NAME = bauerd1	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 1968.5000 ' / m	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 12/6/2011	DATE - 10-25-94	REVISED - R. BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD600-03 (BD-8)	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

USER NAME = default	DESIGNED -		REVISED -
	DRAWN -		REVISED -
PLOT SCALE = $SCALE$	CHECKED -		REVISED -
PLOT DATE = 6/24/2020	DATE -	6/25/2020	REVISED -

HBP Illinois Partners

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

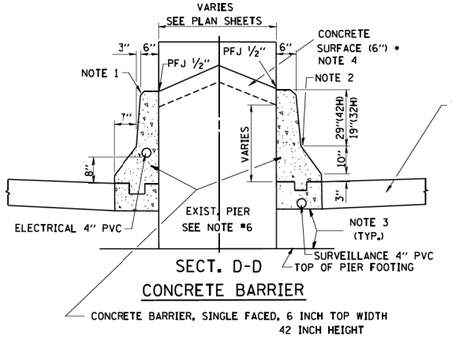
EB I-80 FROM GARDNER STREET TO ROWELL AVENUE
DISTRICT ONE DETAILS

SCALE: N/A | SHEET 2 OF 20 SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	452
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160W34-District One Details_01.dgn

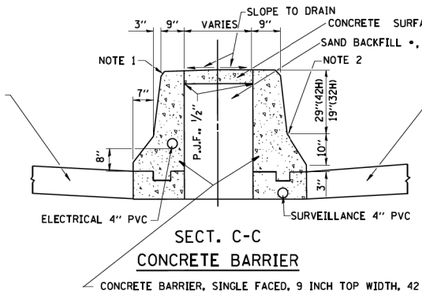
TANGENT CONDITION



SECT. D-D
CONCRETE BARRIER

CONCRETE BARRIER, SINGLE FACED, 6 INCH TOP WIDTH
42 INCH HEIGHT

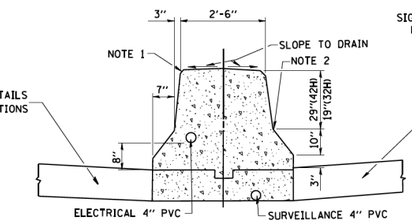
FOR SHOULDER DETAILS
SEE TYPICAL SECTIONS



SECT. C-C
CONCRETE BARRIER

CONCRETE BARRIER, SINGLE FACED, 9 INCH TOP WIDTH, 42 INCH HEIGHT

FOR SHOULDER DETAILS
SEE TYPICAL SECTIONS

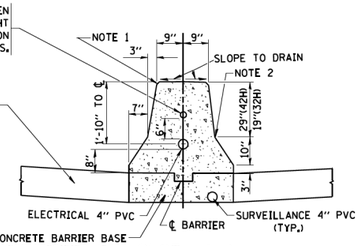


SECT. B-B
CONCRETE BARRIER

CONCRETE BARRIER, DOUBLE FACED
18 INCH VARIABLE TOP WIDTH
42 INCH HEIGHT

FOR SHOULDER DETAILS
SEE TYPICAL SECTIONS

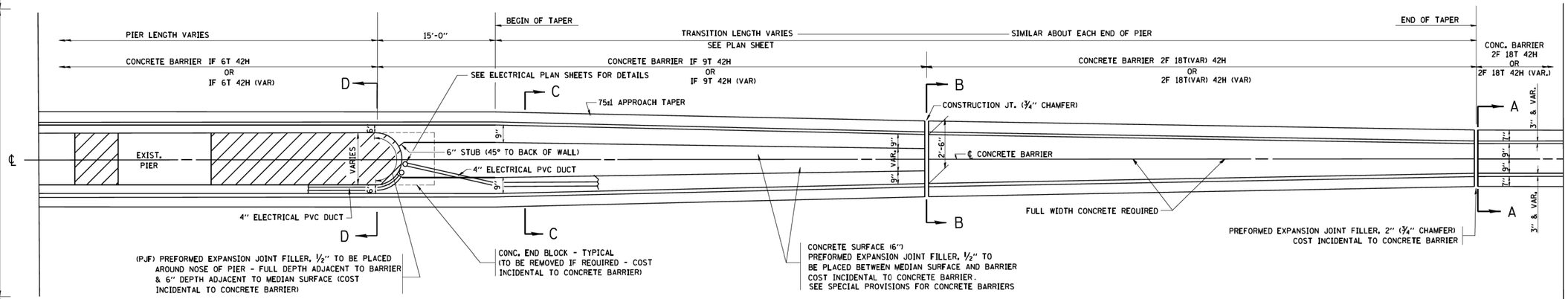
2" PVC TO BE INSTALLED BETWEEN SIGN FOUNDATION AND NEAREST LIGHT POLE FOUNDATION WHERE SHOWN ON THE PLANS.



SECT. A-A
CONCRETE BARRIER

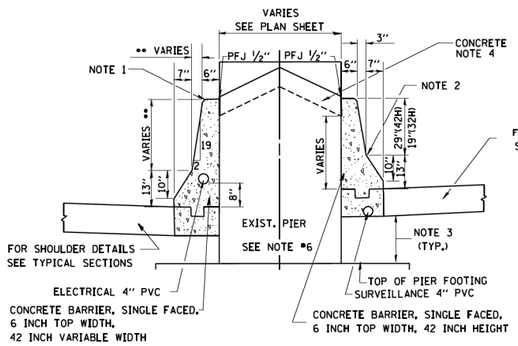
CONCRETE BARRIER, DOUBLE FACE,
18 INCH TOP WIDTH,
42 INCH HEIGHT

PLAN VIEW OF CONCRETE BARRIER TRANSITION



(SUPER ELEVATION CONDITION)

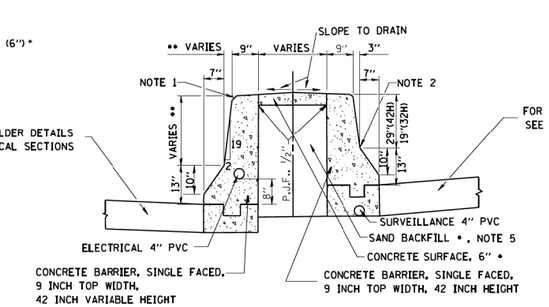
SECT. D-D
CONCRETE BARRIER



CONCRETE BARRIER, SINGLE FACED,
6 INCH TOP WIDTH,
42 INCH VARIABLE WIDTH

CONCRETE BARRIER, SINGLE FACED,
6 INCH TOP WIDTH, 42 INCH HEIGHT

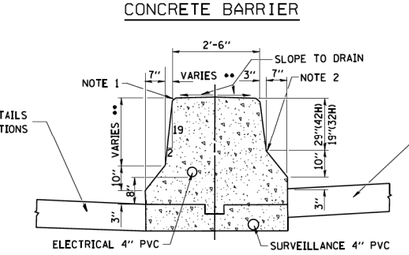
SECT.C-C
CONCRETE BARRIER



CONCRETE BARRIER, SINGLE FACED,
9 INCH TOP WIDTH,
42 INCH VARIABLE HEIGHT

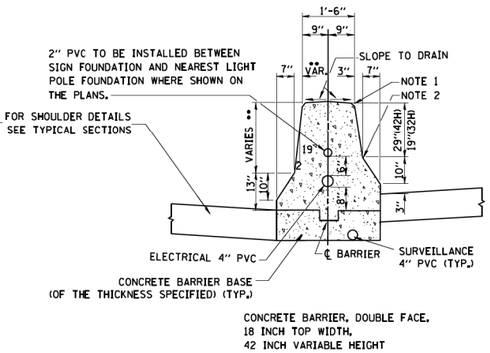
CONCRETE BARRIER, SINGLE FACED,
9 INCH TOP WIDTH, 42 INCH HEIGHT

SECT. B-B
CONCRETE BARRIER



CONCRETE BARRIER, DOUBLE FACE,
18 INCH VARIABLE TOP WIDTH,
42 INCH VARIABLE HEIGHT

SECT. A-A
CONCRETE BARRIER



CONCRETE BARRIER, DOUBLE FACE,
18 INCH TOP WIDTH,
42 INCH VARIABLE HEIGHT

GENERAL NOTES - FOR UNDERDRAIN DETAILS SEE TYPICAL SECTIONS

- PREFORMED JOINT FILLER SHALL BE INCIDENTAL TO THE CONCRETE BARRIER OF THE TYPE INVOLVED.
- FOR KEYWAY (F) DIMENSIONS, SEE TYPICAL SECTIONS
- CONCRETE BARRIER BASE PAY ITEM IS TO BE INCLUDED IF THE BARRIER IS CONSTRUCTED MONOLITHIC OR JOINTED TO BASE. IF JOINTED CONTRACTORS WILL HAVE THE OPTION OF USING A KEYWAY OR *__ TIE BARS AT _____O.C.

NOTE 1 - ¾" CHAMFER OR 1" RADIUS (OPTIONAL)

NOTE 2 - 10" RADIUS (OPTIONAL)

NOTE 3 - EXTEND BOTTOM OF BARRIER TO FOOTING ONLY WHEN DEPTH IS 6" OR LESS. OTHERWISE MAINTAIN SAME DEPTH AS BOTTOM OF SHOULDER

NOTE 4 - PIER FILLER MATERIAL TO BE CONCRETE IF MINIMUM 6" THICKNESS WILL BE MAINTAINED. IF 6" THICKNESS CANNOT BE MAINTAINED USE ASPHALT FILLER MATERIAL AS DIRECTED BY THE ENGINEER.

NOTE 5 - SAND BACKFILL AND CONCRETE SURFACE WILL BE REQUIRED. FILLING WITH CONCRETE WILL NOT BE ALLOWED.

NOTE 6 - IF PIER IS NEW CONSTRUCTION BARRIER WALL MAY BE MONOLITHIC

•• MAINTAIN SLOPE OF FACE AS SHOWN ON DETAIL. HEIGHT AND WIDTH OF BARRIER INCREASE WHERE A DIFFERENCE IN MEDIAN EDGE-OF-PAVEMENT GRADE ELEVATION EXISTS.

• COST OF SAND BACKFILL, CONCRETE SURFACE (6"), AND PIER FILLER MATERIAL WILL NOT BE INCIDENTAL.

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		DRAWN -	REVISED -
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	PLOT DATE = 1/4/2008	DATE - 09-09-88	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER TRANSITION &
GENERAL DETAILS, CONCRETE BARRIER BASE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD-27	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

USER NAME = default	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
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PLOT DATE = 6/24/2020	DATE - 6/25/2020	REVISED -	

HBP Illinois Partners

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB I-80 FROM GARDNER STREET TO ROWELL AVENUE
DISTRICT ONE DETAILS

SCALE: N/A | SHEET 3 OF 20 SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	453
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

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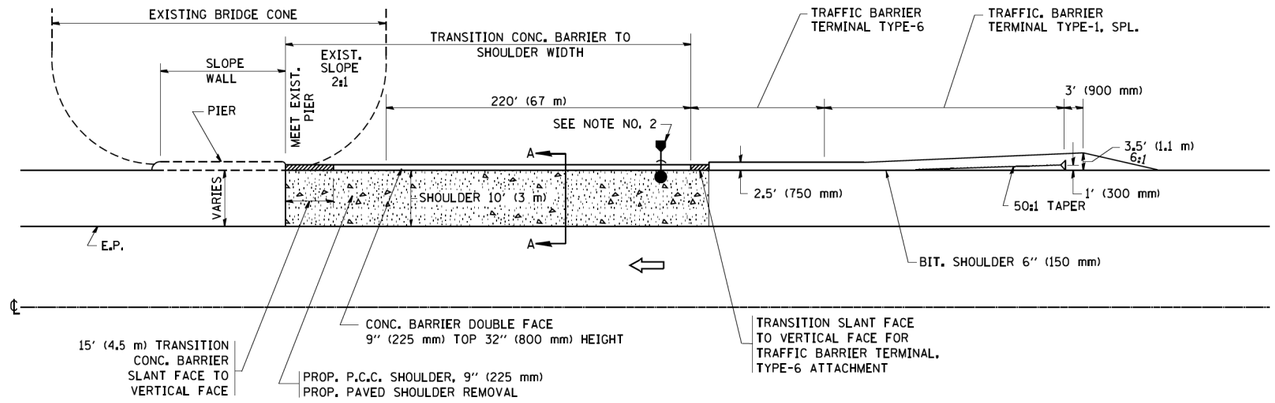
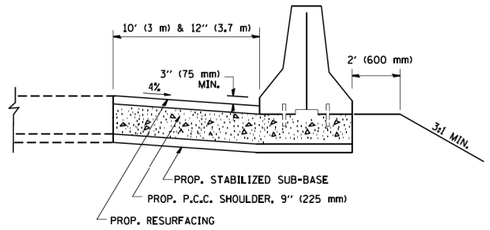
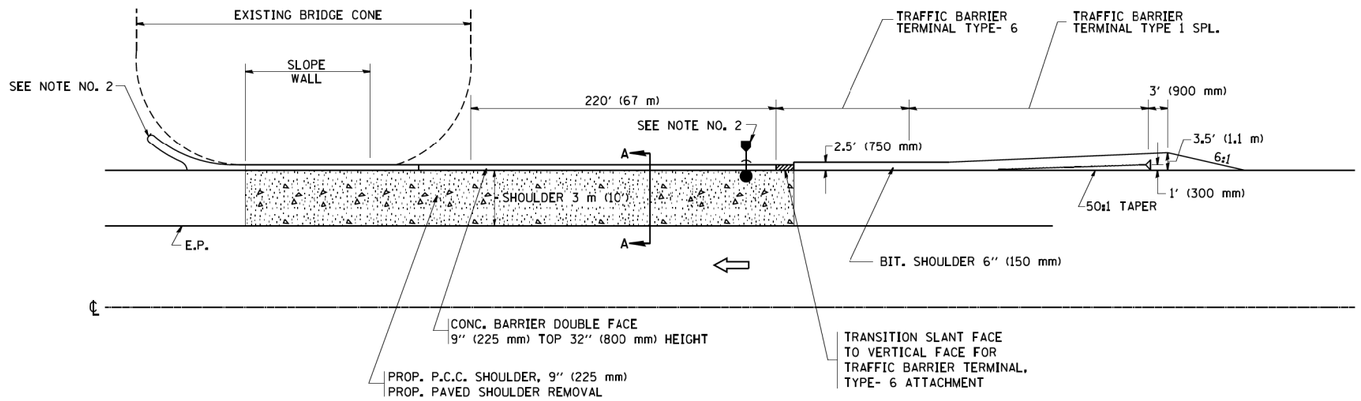


CONC. BARRIER ADJACENT TO SLOPE WALL WITH PIER (DITCH SECTION)



SECTION A-A



CONC. BARRIER ADJACENT TO SLOPE WALL WITHOUT PIER (DITCH SECTION)

NOTE:

1. SEE STATE STANDARD 630201 FOR STABILIZATION FOR GUARDRAIL.
*2. THE GUTTER OUTLET AND CATCH BASIN LOCATION IS DEPENDENT ON DIRECTION OF FLOW.
3. USE CONC. BARRIER SINGLE FACE IF CLEARANCE BETWEEN PIER AND SHOULDER IS LESS THAN 27" (685 mm).
4. SEE STATE STANDARD 637001 FOR CONCRETE BARRIER.

* CATCH BASIN TYPE C, TYPE 24 FRAME AND GRATE
* STORM SEWERS, 12" (300 mm)
* END SECTIONS, 12" (300 mm)

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		DRAWN -	REVISED -
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	PLOT DATE = 1/4/2008	DATE - 10-18-02	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER PIER AND SLOPE WALL PROTECTION DETAIL

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD600-08 (BD29)	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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PLOT DATE = 6/24/2020	DATE -	6/25/2020	REVISED -

FILE NAME = D160W34-District One Details_01.dgn

HBP Illinois Partners

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB I-80 FROM GARDNER STREET TO ROWELL AVENUE
DISTRICT ONE DETAILS

SCALE: N/A | SHEET 4 OF 20 SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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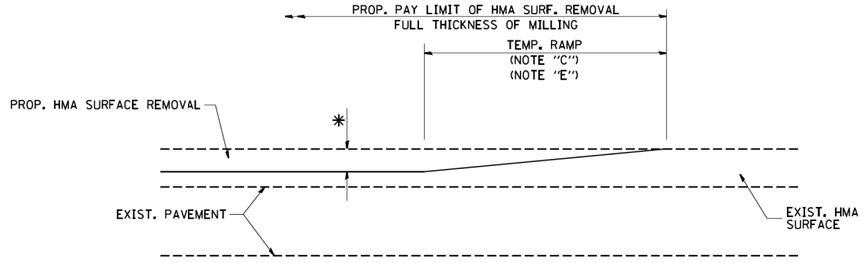
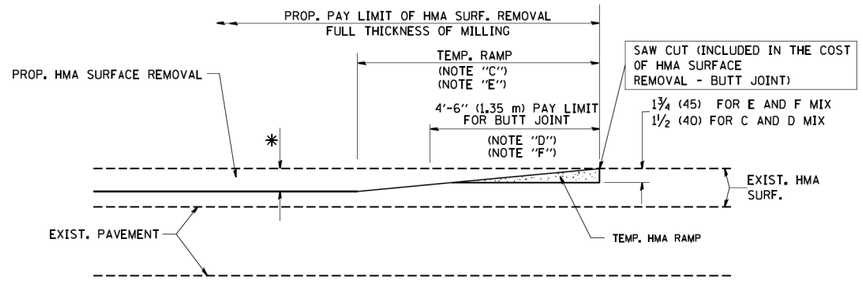
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

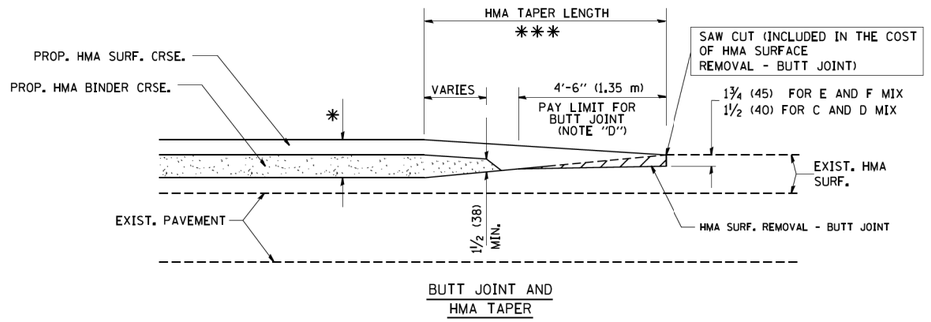


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

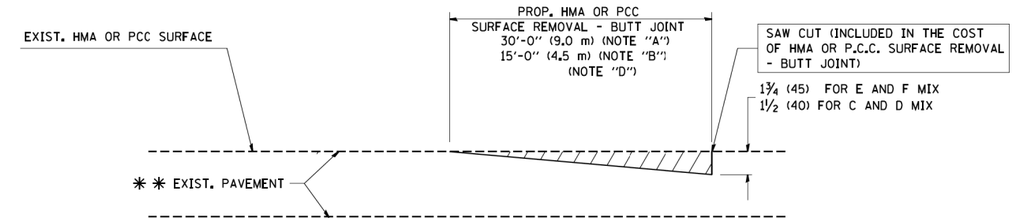
OPTION 2

TYPICAL TEMPORARY RAMP

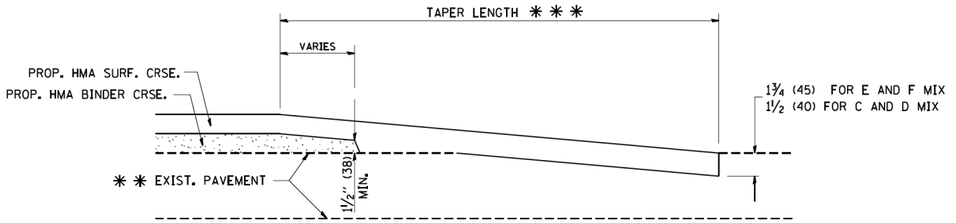


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

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

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		DRAWN -	REVISED - A. ABBAS 03-21-97		
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01		
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD400-05 BD32	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

USER NAME = default	DESIGNED -	REVISED -	HBP Illinois Partners	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EB I-80 FROM GARDNER STREET TO ROWELL AVENUE DISTRICT ONE DETAILS
	DRAWN -	REVISED -			
PLOT SCALE = $SCALE$	CHECKED -	REVISED -			
PLOT DATE = 6/24/2020	DATE - 6/25/2020	REVISED -			SCALE: N/A | SHEET 5 OF 20 SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	455
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

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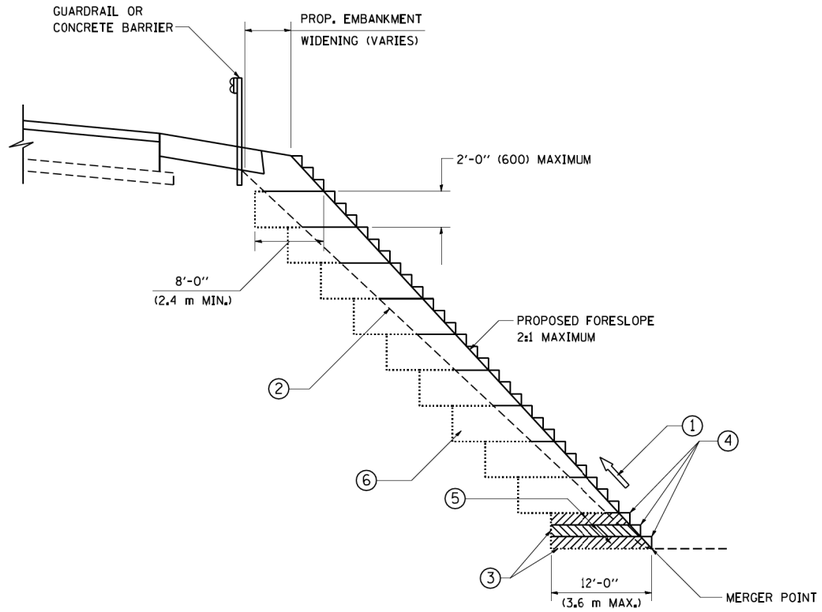

TYPICAL BENCHING DETAIL FOR EMBANKMENT

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.

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	PLOT DATE = 1/4/2008	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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD-51	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

USER NAME = default	DESIGNED -		REVISED -
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PLOT DATE = 6/24/2020	DATE -	6/25/2020	REVISED -

FILE NAME = D160W34-District One Details_01.dgn

HBP Illinois Partners

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB I-80 FROM GARDNER STREET TO ROWELL AVENUE
DISTRICT ONE DETAILS

SCALE: N/A | SHEET 6 OF 20 SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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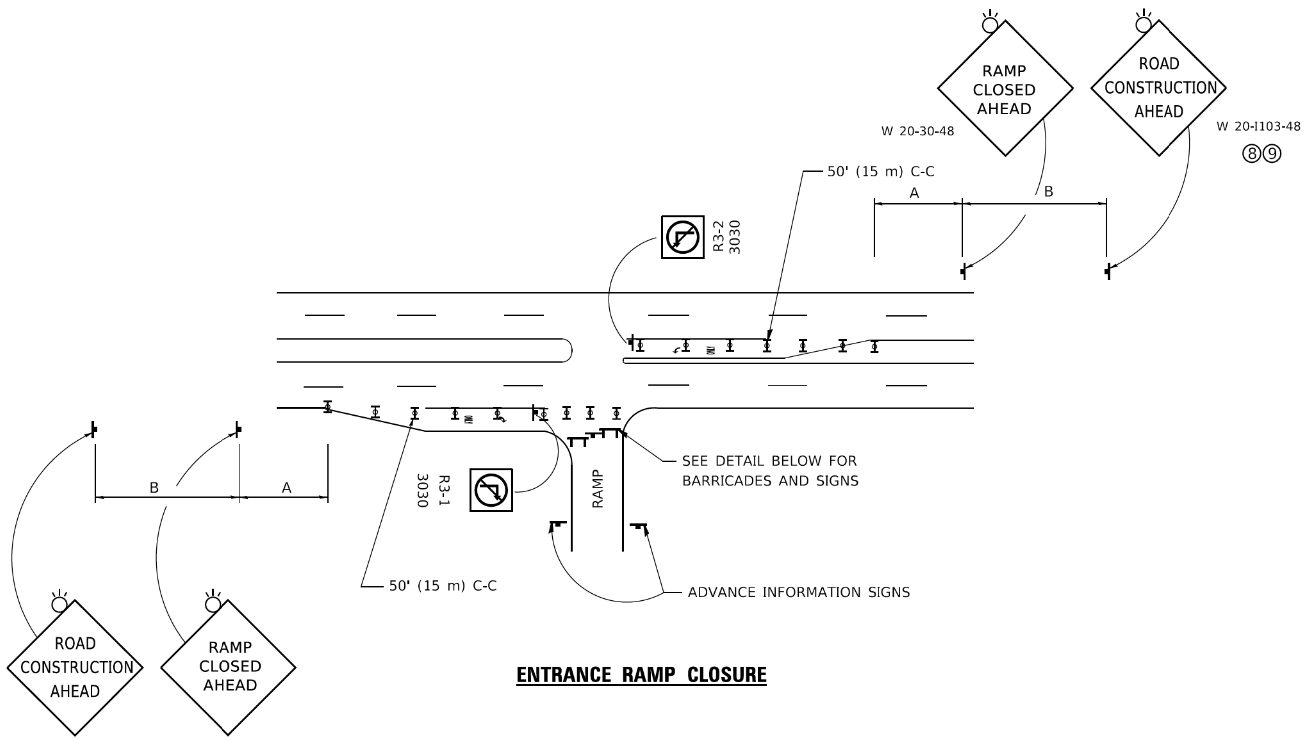
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

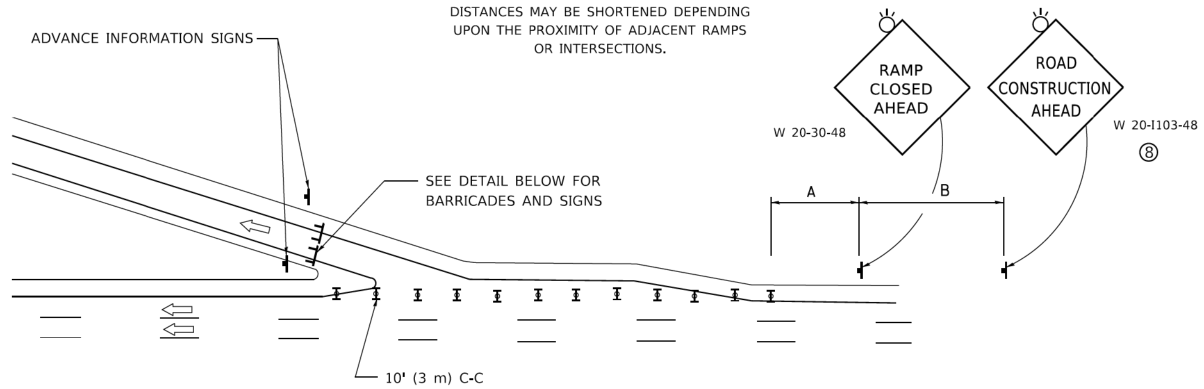


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS A	DISTANCE BETWEEN SIGNS B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

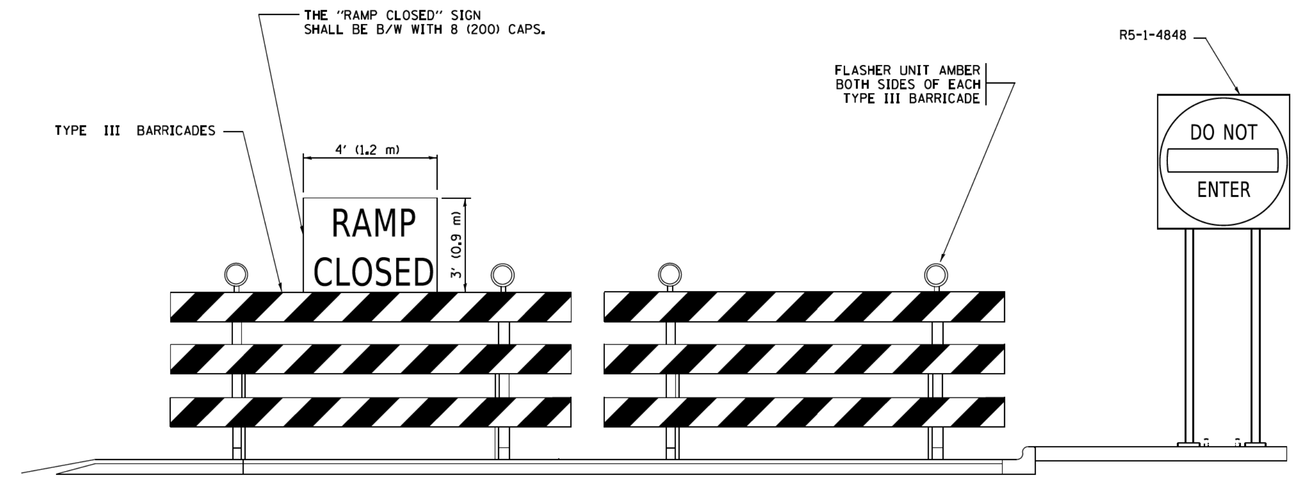
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

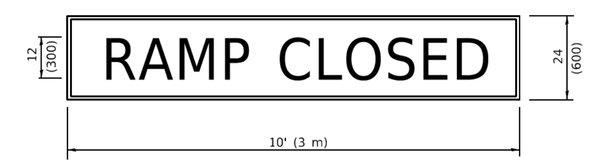
SYMBOLS

- TYPE II BARRICADE OR DRUM
- TYPE III BARRICADE WITH 2 FLASHING LIGHTS



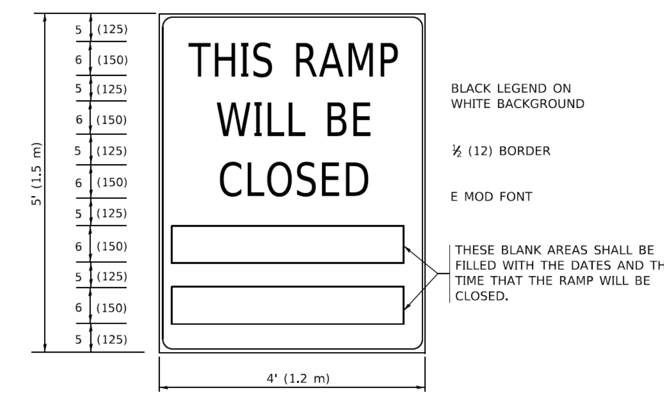
DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND
½ (12) BORDER
E MOD FONT
THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

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

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
2. VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
4. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
5. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
7. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
8. ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
9. ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

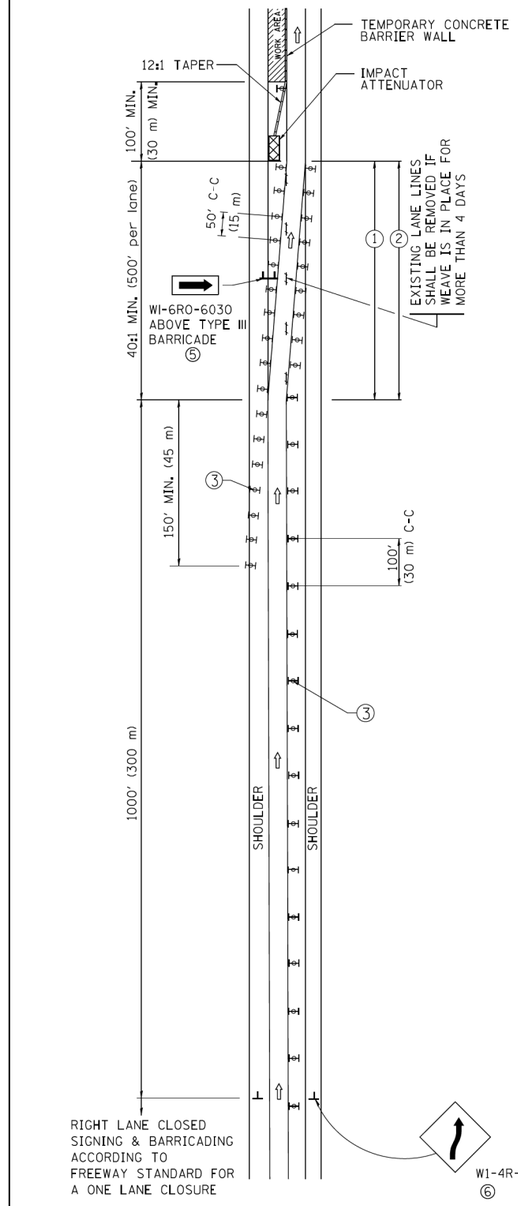
MODEL: Default
FILE NAME: pw:\\IL084EIBDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist\Std22x34\CADData\CADSheets\tc08.dgn

USER NAME = footemj	DESIGNED - D.W.S.	REVISED - S.P.B._01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ENTRANCE_AND_EXIT_RAMP CLOSURE_DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED - S.P.B._12-09							
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - M.D._06-13			TC-08		CONTRACT NO.		
PLOT DATE = 3/4/2019	DATE - 02-83	REVISED - M.D._01-18		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			

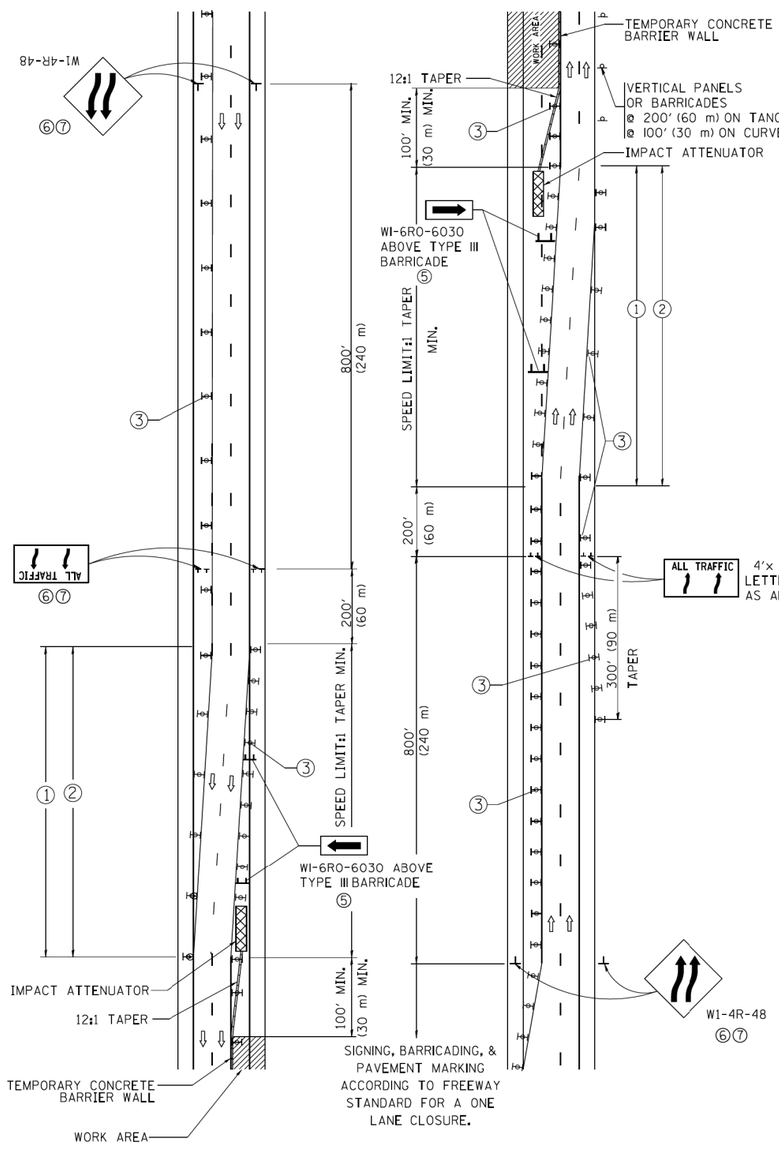
USER NAME = default	DESIGNED -	REVISED -	HBP Illinois Partners	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EB I-80 FROM GARDNER STREET TO ROWELL AVENUE DISTRICT ONE DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -				80	2013-008B	WILL	511	457
PLOT SCALE = $SCALE$	CHECKED -	REVISED -				CONTRACT NO. 60W34				
PLOT DATE = 6/24/2020	DATE - 6/25/2020	REVISED -			SCALE: N/A SHEET 7 OF 20 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. AID PROJECT			

FILE NAME = D160W34-District One Details.01.dgn

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.

② CONTINOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.

③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.

④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.

⑤ TYPE III BARRICADES MAY BE OMMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.

⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

ALL TRAFFIC 4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W24-1-48 ⑦

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = c:\pw_work\pwidot\footemj\d0108315\tc09.dgn	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06
		DRAWN -	REVISED - SPB 01-07
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED - SPB 12-09
	PLOT DATE = 7/1/2013	DATE - 02-87	REVISED - MD 06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-09	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = 6/24/2020	DATE - 6/25/2020	REVISED -

HBP Illinois Partners

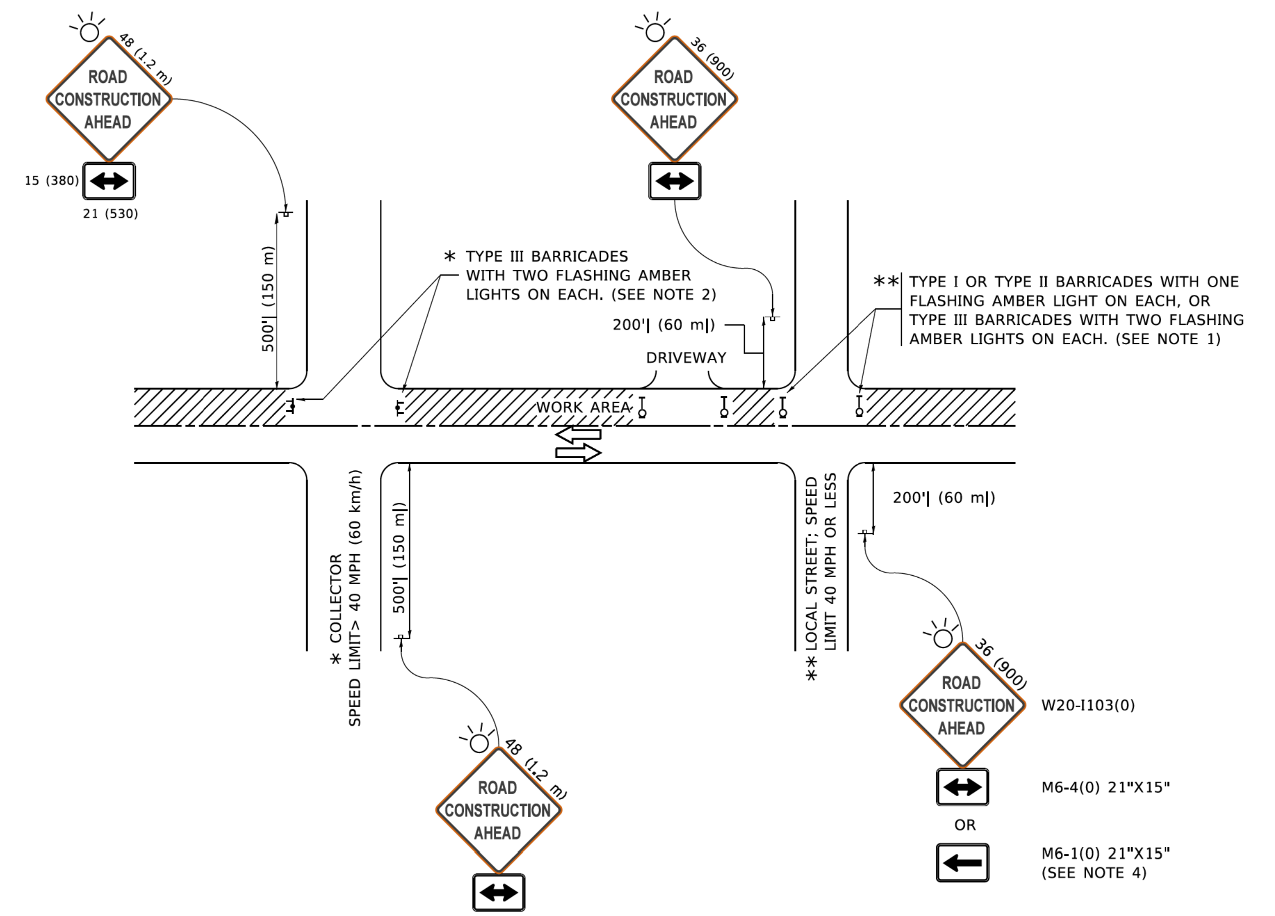
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB I-80 FROM GARDNER STREET TO ROWELL AVENUE
DISTRICT ONE DETAILS

SCALE: N/A | SHEET 8 OF 20 SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	458
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160W34-District One Details_01.dgn



NOTES:

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 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. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

4. 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).

5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.

6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.

7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - T. RAMMACHER 01-06-00	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13	
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16	

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

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-10	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = 6/24/2020	DATE - 6/25/2020	REVISED -	

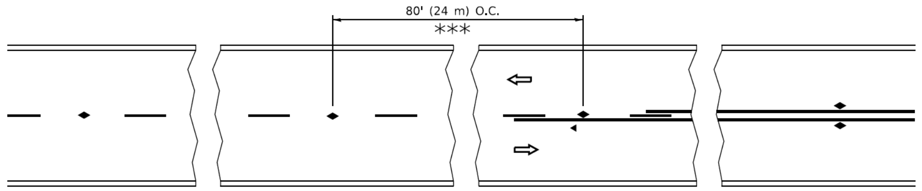
HBP Illinois Partners

EB I-80 FROM GARDNER STREET TO ROWELL AVENUE
DISTRICT ONE DETAILS

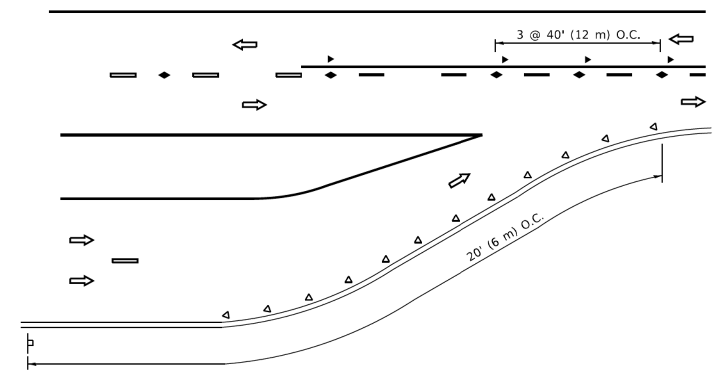
SCALE: N/A | SHEET 9 OF 20 SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	459
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

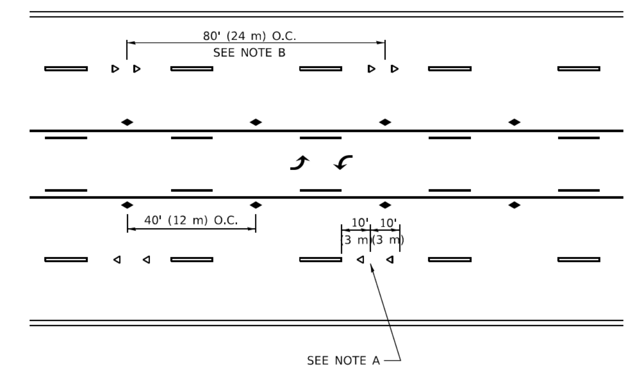
FILE NAME = D160W34-District One Details.01.dgn



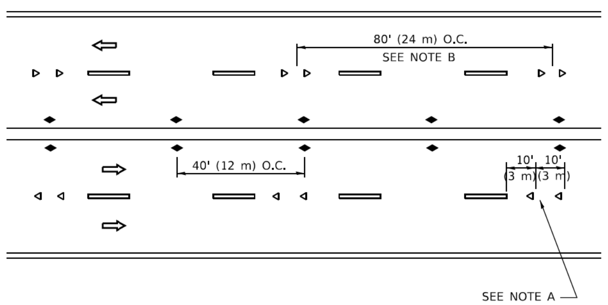
TWO-LANE/TWO-WAY



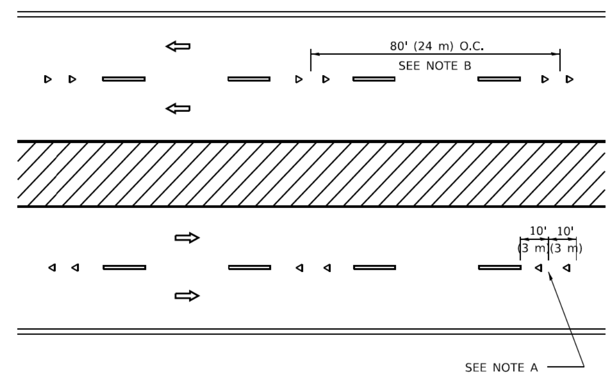
LANE REDUCTION TRANSITION



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.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

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

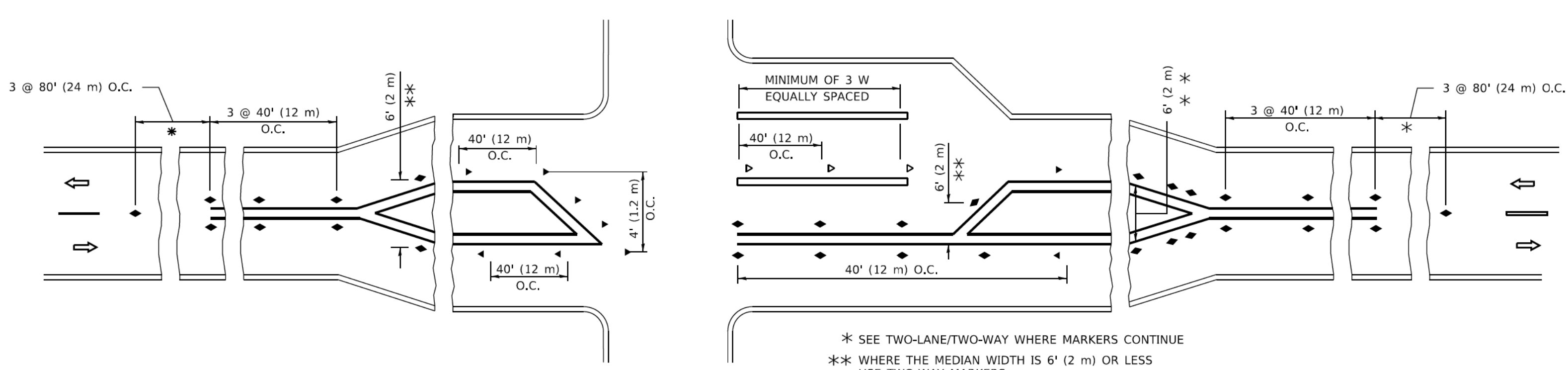
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

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



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

TURN LANES

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

MODEL: Default
FILE NAME: pw:\\IL084EB\DINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\DistStd22x34\CADData\CADSheets\tc11.dgn

USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-12-99	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
	DRAWN -	REVISED - T. RAMMACHER 01-06-00		
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09		
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

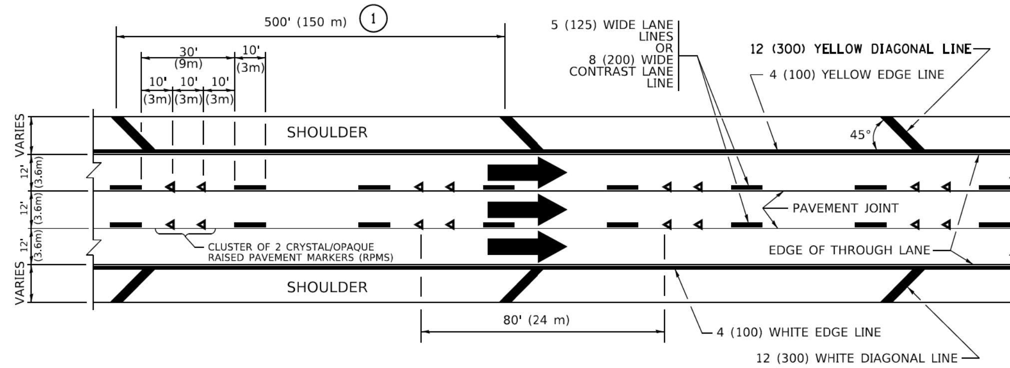
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-11		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EB I-80 FROM GARDNER STREET TO ROWELL AVENUE DISTRICT ONE DETAILS
	DRAWN -	REVISED -		
PLOT SCALE = $SCALE$	CHECKED -	REVISED -		
PLOT DATE = 6/24/2020	DATE - 6/25/2020	REVISED -		SCALE: N/A SHEET 10 OF 20 SHEETS STA. N/A TO STA. N/A

HBP Illinois Partners

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	460
CONTRACT NO. 60W34				
ILLINOIS FED. AID PROJECT				

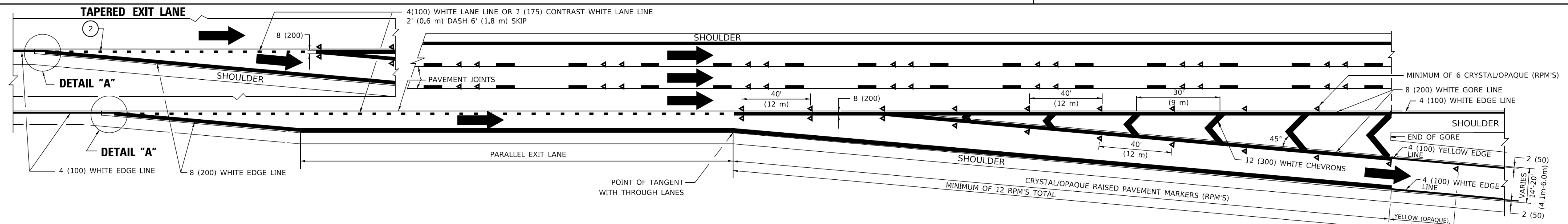
FILE NAME = D160W34-District One Details.01.dgn



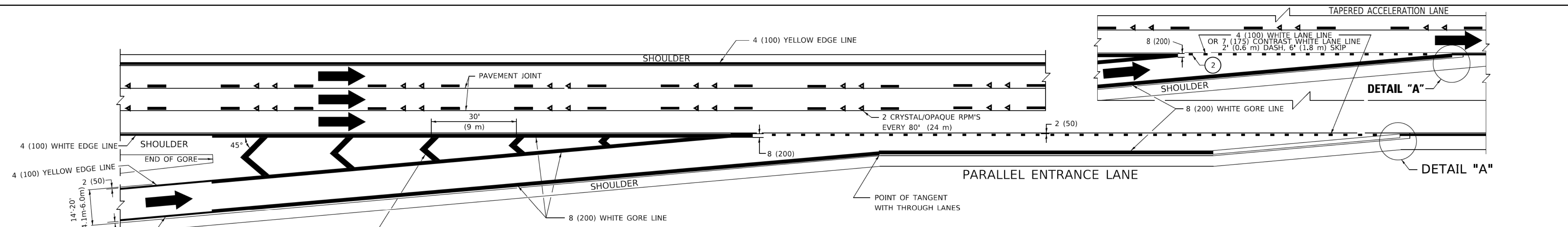
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

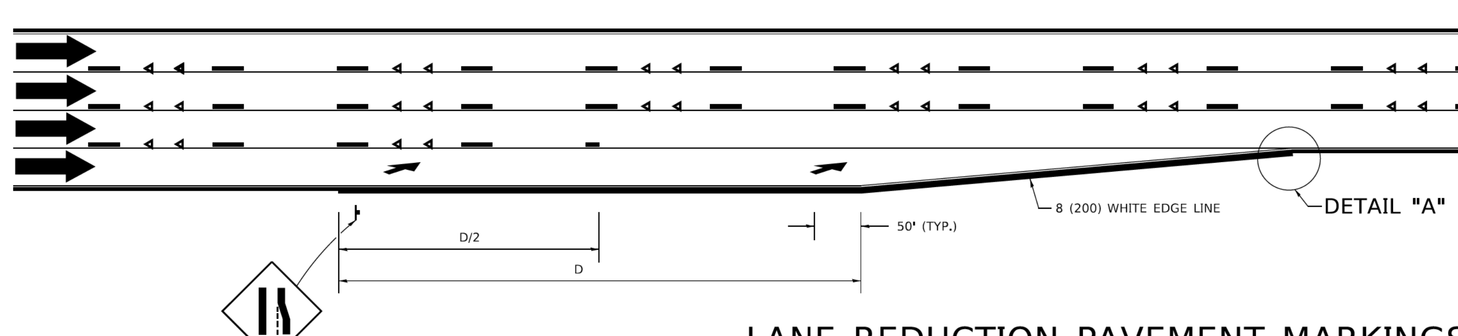
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

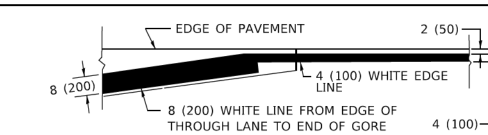


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)

LANE REDUCTION PAVEMENT MARKINGS



DETAIL "A"

NOTES:

1. THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
2. 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

USER NAME = footemj	DESIGNED - D.W.S.	REVISED - S.P.B. 01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - S.P.B. 01-10	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - M.D. 05-13	
PLOT DATE = 3/4/2019	DATE - 01-90	REVISED - M.D. 09-17	

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-12	CONTRACT NO.		

ILLINOIS FED. AID PROJECT

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USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = 6/24/2020	DATE - 6/25/2020	REVISED -	

HBP Illinois Partners

EB I-80 FROM GARDNER STREET TO ROWELL AVENUE
DISTRICT ONE DETAILS

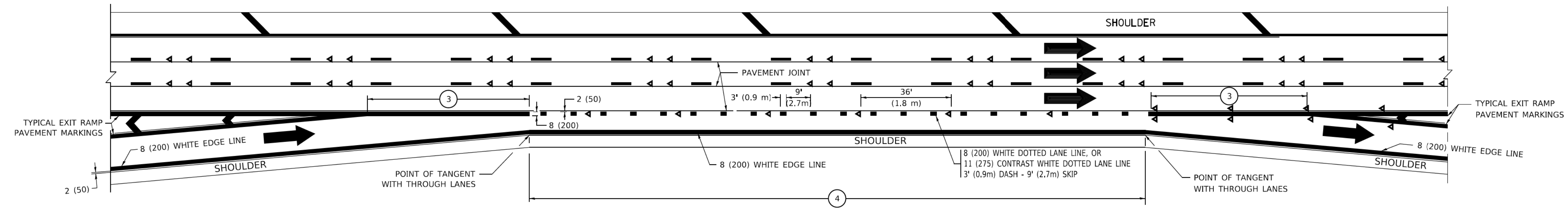
SCALE: N/A | SHEET 11 OF 20 SHEETS | STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	461

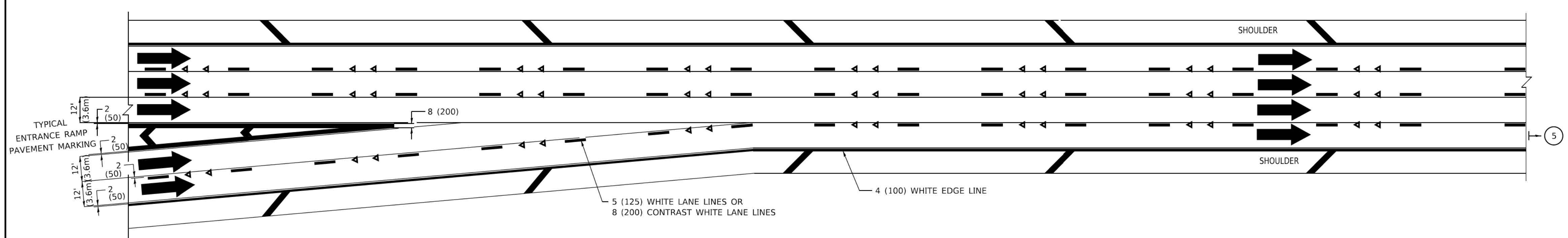
CONTRACT NO. 60W34

ILLINOIS FED. AID PROJECT

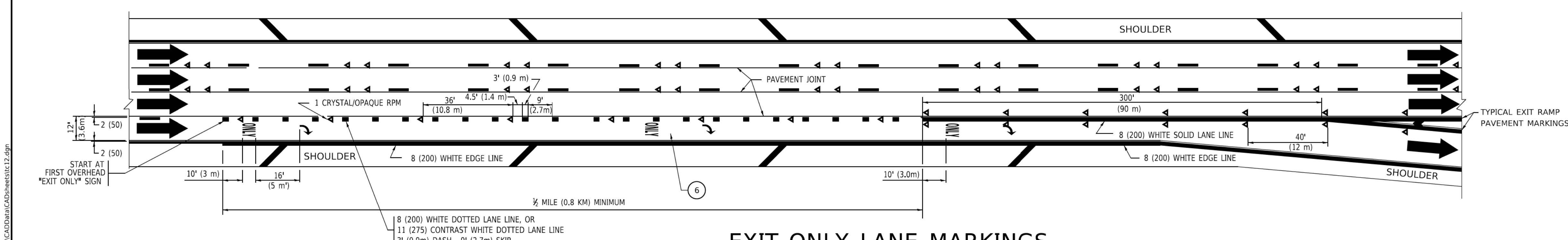
FILE NAME = D160W34-District One Details.01.dgn



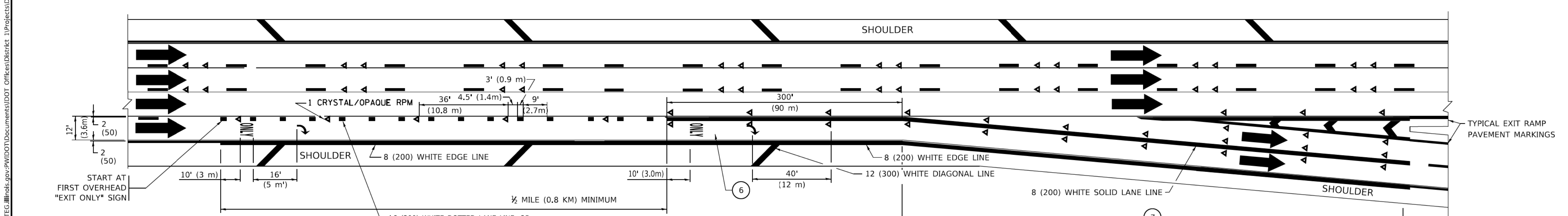
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

NOTES:

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

MODEL: Default
FILE NAME: pw:\\IL084EBIDNTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D6d\Std22x34\CADData\CADsheets\tc12.dgn

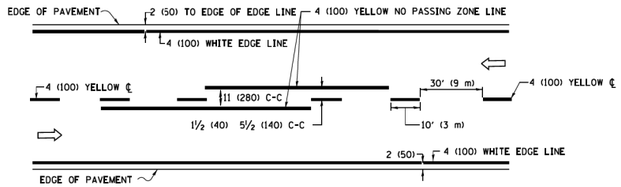
USER NAME = footemj	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS
	DRAWN -	REVISED - S.P.B. 01-07		
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - S.P.B. 01-10		
PLOT DATE = 3/4/2019	DATE - 01-90	REVISED - M.D. 09-17		SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-12		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

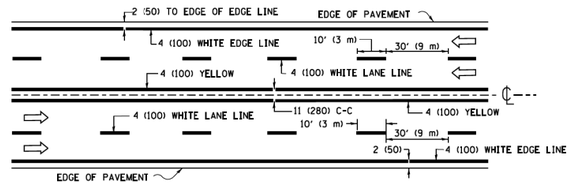
USER NAME = default	DESIGNED -	REVISED -	HBP Illinois Partners	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EB I-80 FROM GARDNER STREET TO ROWELL AVENUE DISTRICT ONE DETAILS
	DRAWN -	REVISED -			
PLOT SCALE = $SCALE$	CHECKED -	REVISED -			
PLOT DATE = 6/24/2020	DATE - 6/25/2020	REVISED -			SCALE: N/A SHEET 12 OF 20 SHEETS STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	462
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

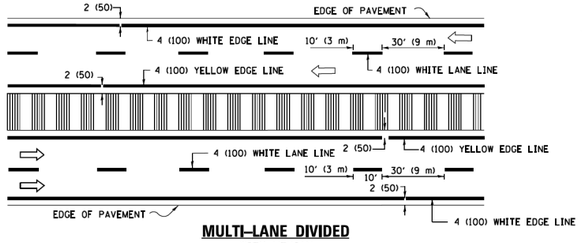
FILE NAME = D160W34-District One Details.01.dgn



2–LANE ROADWAY

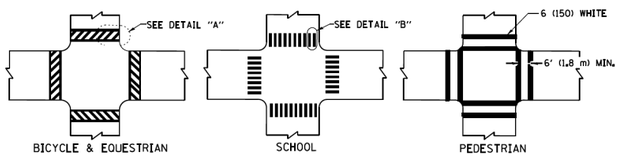


MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

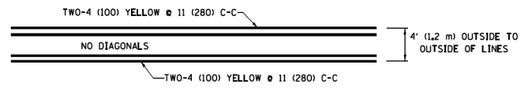
TYPICAL LANE AND EDGE LINE MARKING



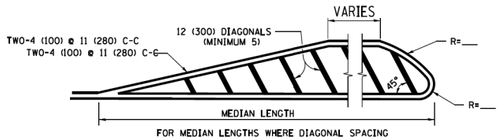
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

✳ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



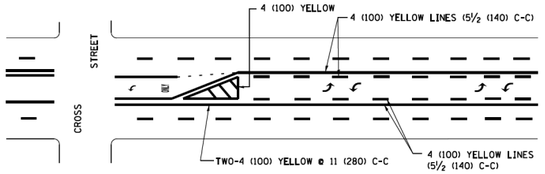
4' (1.2 m) WIDE MEDIANS ONLY



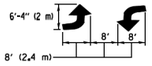
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

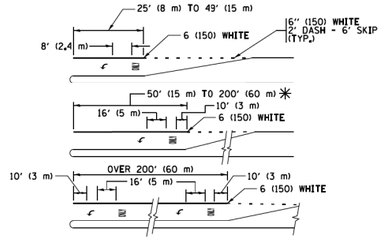


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED. WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

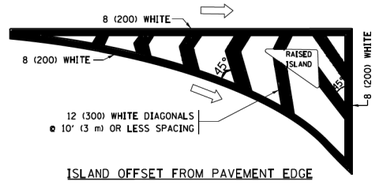


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) ⬆ AREA = 20.8 SQ. FT. (1.9 m^2)

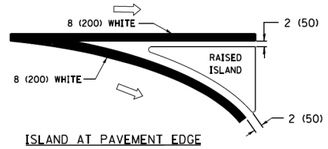
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

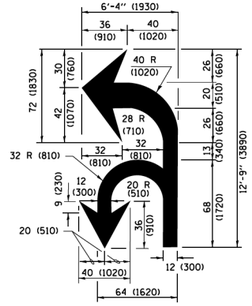


ISLAND OFFSET FROM PAVEMENT EDGE

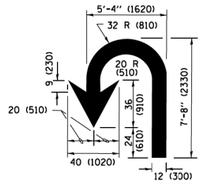


ISLAND AT PAVEMENT EDGE

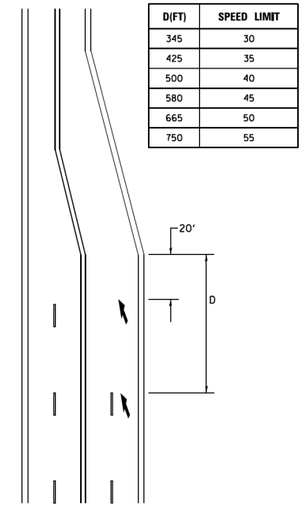
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

✳ LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

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	5½ (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 MEDIANS IN YELLOW
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; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 ⊕ 6 (150) 12 (300) ⊕ 45° 12 (300) ⊕ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ⊕ 4 (100) WITH 12 (300) DIAGONALS ⊕ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ⊕ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 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 (REQUIRED FOR SHOULDERS ≥ 8')	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))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

FILE NAME = Wi\diststd\22x34\tc13.dgn	USER NAME = leysa	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
		DRAWN -	REVISED - C. JUCIUS 07-01-13
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
Default	PLOT DATE = 6/23/2017	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-13	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

USER NAME = default	DESIGNED -		REVISED -
	DRAWN -		REVISED -
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PLOT DATE = 6/24/2020	DATE -	6/25/2020	REVISED -

HBP Illinois Partners

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB I-80 FROM GARDNER STREET TO ROWELL AVENUE
DISTRICT ONE DETAILS

SCALE: N/A | SHEET 13 OF 20 SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	463
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160W34-District One Details_01.dgn

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

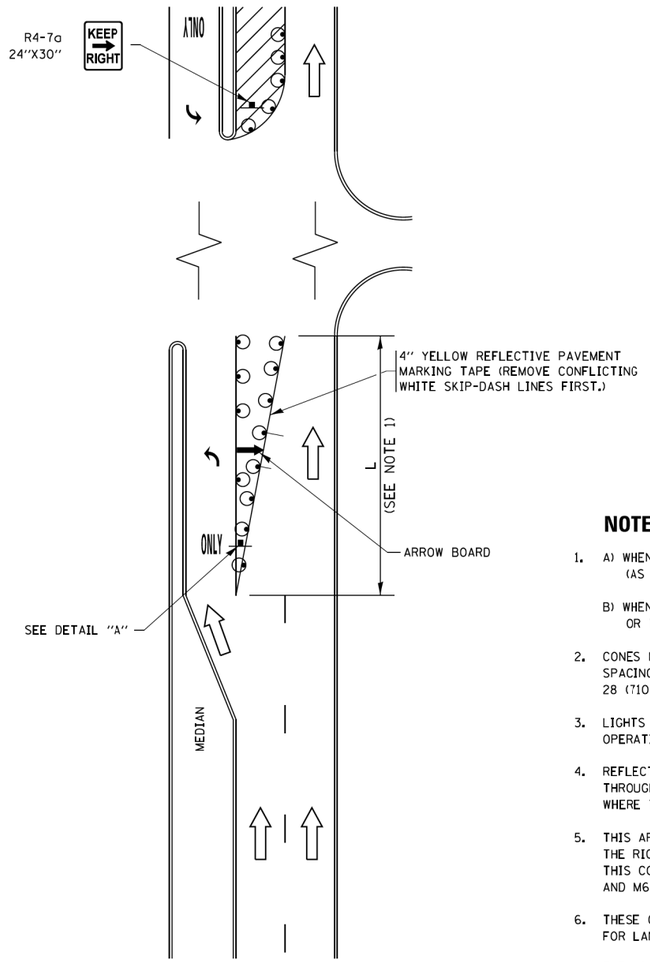


FIGURE 1

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.

   B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I10OR 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

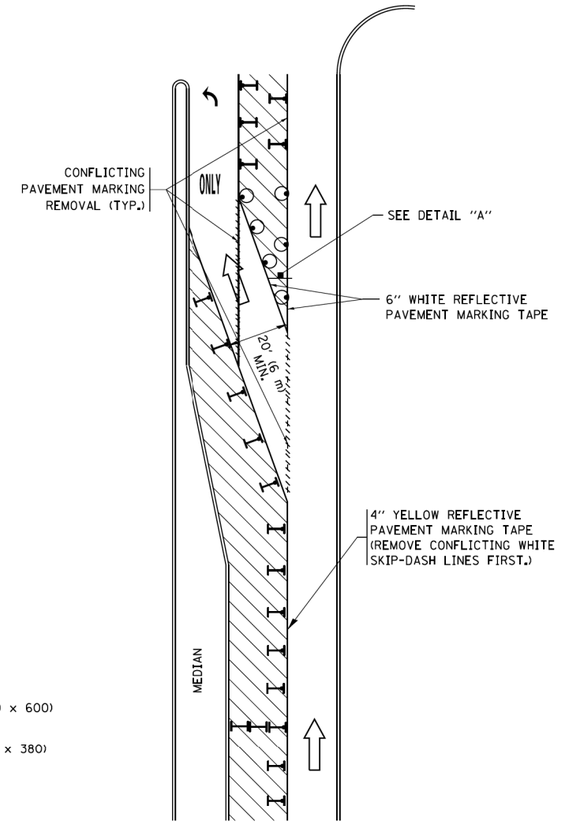
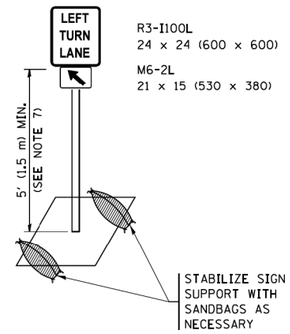


FIGURE 2



DETAIL A

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

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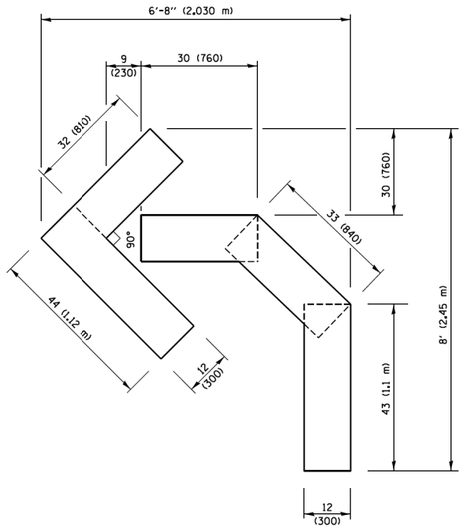
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-14	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

USER NAME = default	DESIGNED -	REVISED -	HBP Illinois Partners	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EB I-80 FROM GARDNER STREET TO ROWELL AVENUE DISTRICT ONE DETAILS SCALE: N/A | SHEET 14 OF 20 SHEETS | STA. N/A | TO STA. N/A
	DRAWN -	REVISED -			
PLOT SCALE = $SCALE$	CHECKED -	REVISED -			
PLOT DATE = 6/24/2020	DATE - 6/25/2020	REVISED -			

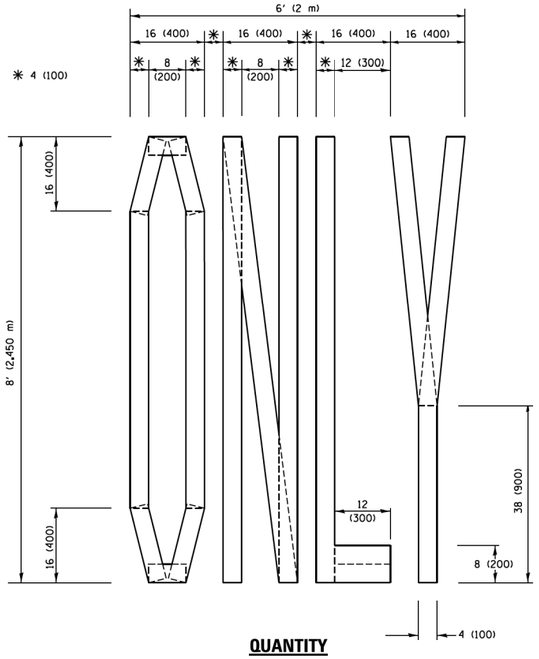
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	464
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160W34-District One Details_01.dgn



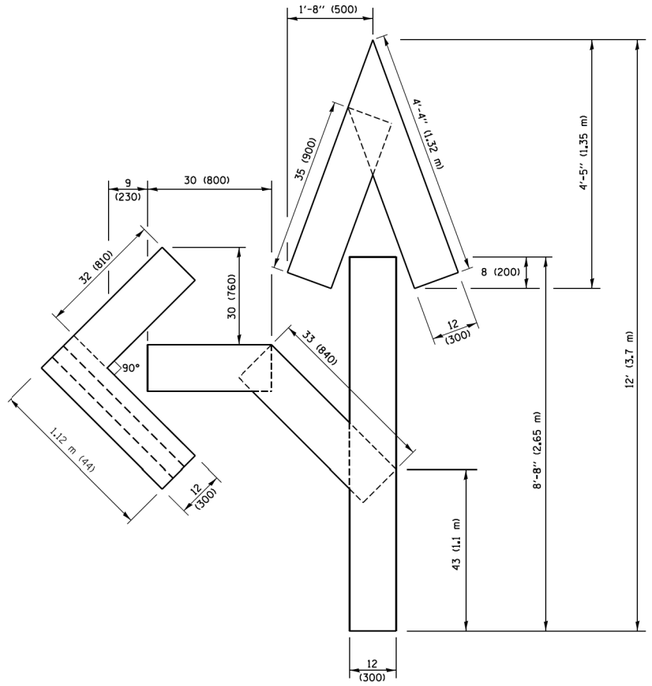
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

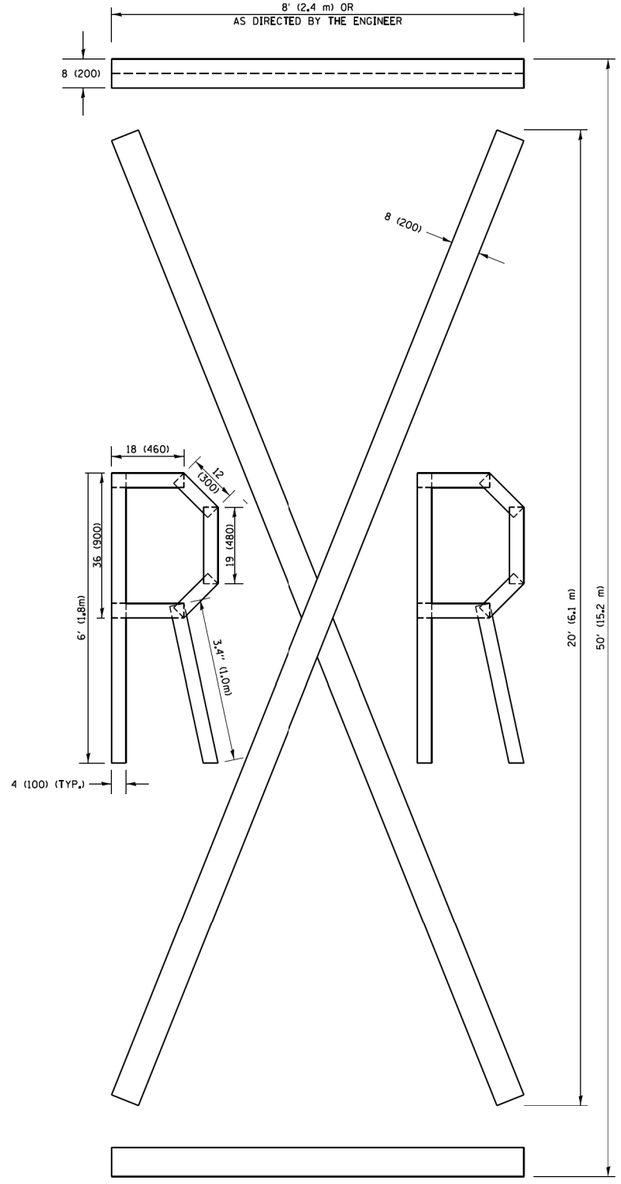


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

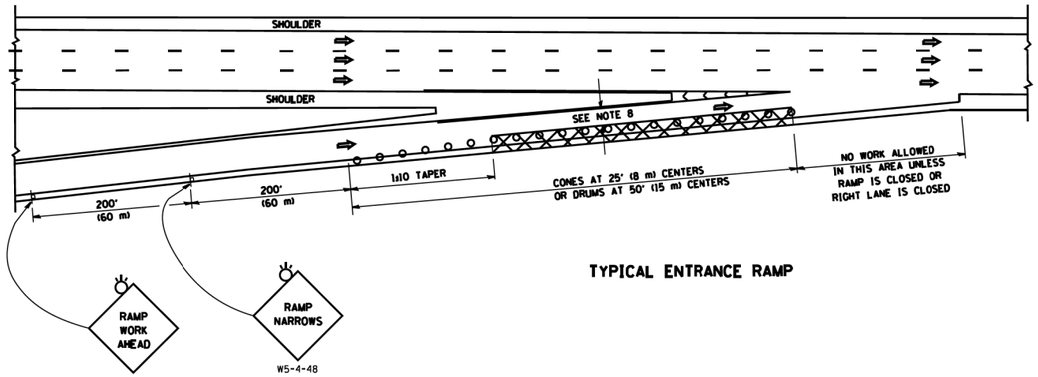
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = pw:\\IL084EBIDINTEG:Illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\District One\CADData\CADsheets\tc16.dgn	USER NAME = footemj	DESIGNED -	REVISED -T. RAMMACHER 03-02-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -E. GOMEZ 08-28-00							
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -E. GOMEZ 08-28-00				TC-16	CONTRACT NO.		
	PLOT DATE = 9/15/2016	DATE - 09-18-94	REVISED -A. SCHUETZE 09-15-16		SCALE: NONE / SHEET NO. 1 OF 1 SHEETS / STA. / TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	

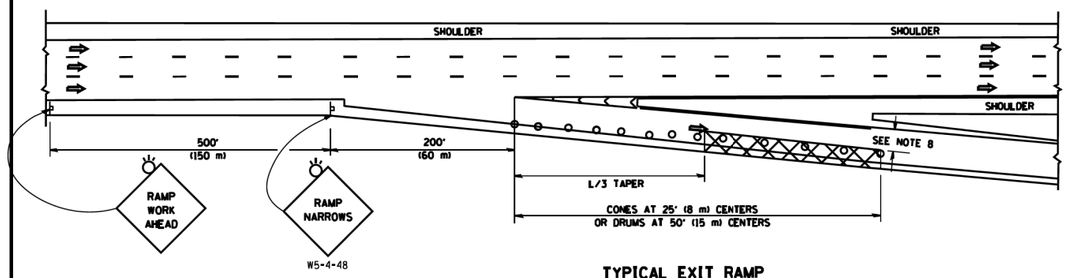
USER NAME = default	DESIGNED -	REVISED -	HBP Illinois Partners	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EB I-80 FROM GARDNER STREET TO ROWELL AVENUE DISTRICT ONE DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -				80	2013-008B	WILL	511	465
PLOT SCALE = $SCALE$	CHECKED -	REVISED -						CONTRACT NO. 60W34		
PLOT DATE = 6/24/2020	DATE - 6/25/2020	REVISED -			SCALE: N/A / SHEET 15 OF 20 SHEETS / STA. N/A / TO STA. N/A			ILLINOIS	FED. AID PROJECT	

FILE NAME = D160W34-District One Details_01.dgn

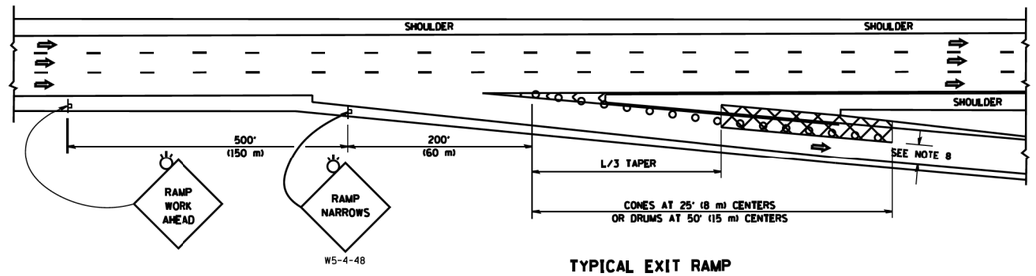
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP

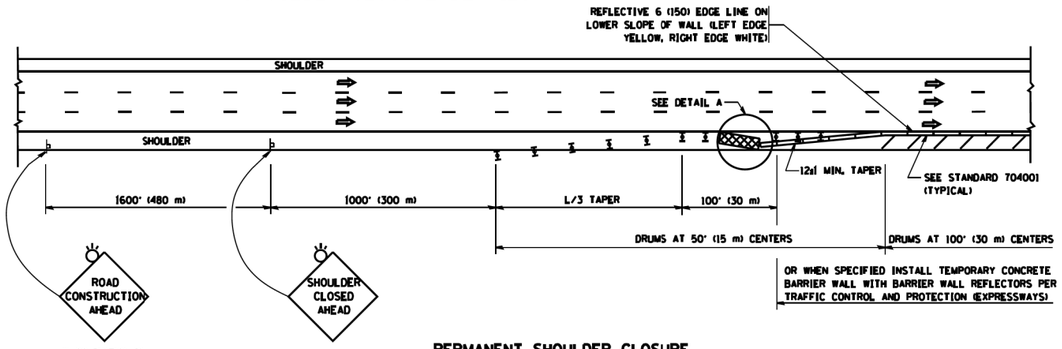


TYPICAL EXIT RAMP

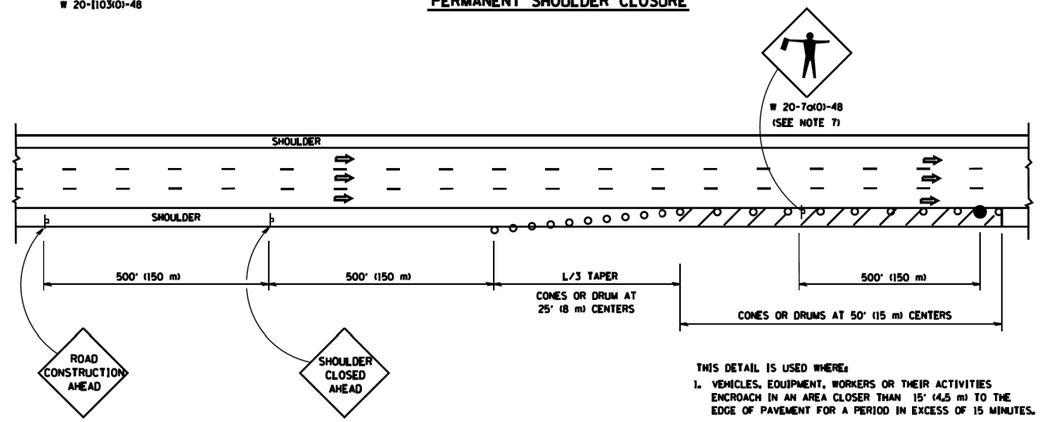


TYPICAL EXIT RAMP

SHOULDER CLOSURE DETAILS



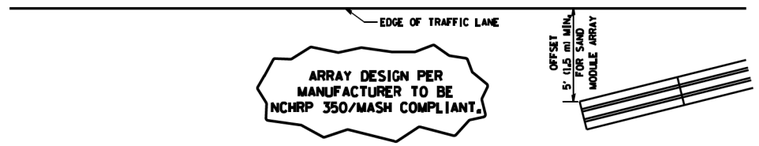
PERMANENT SHOULDER CLOSURE



THIS DETAIL IS USED WHERE:

1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

DAYTIME SHOULDER CLOSURE



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

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS	
	METRIC	ENGLISH
45 mph (80 km/h) OR GREATER:	L=0.65(WXS)	L=(WXS)

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)

2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENTUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
   a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
   b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.

   THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
   16' MIN. WIDTH CURVE SECTION.

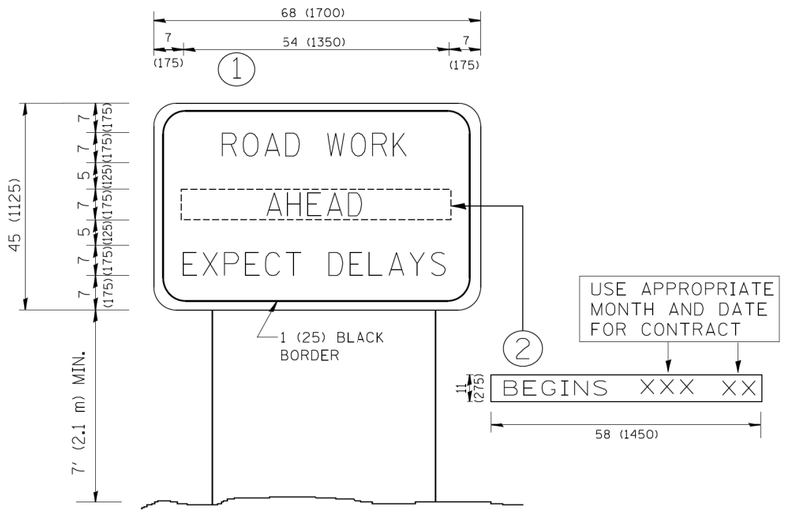
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = c:\pw_work\pwidot\leysa\d0180315\tc17.dgn	USER NAME = leysa	DESIGNED -	REVISED - J.A.F. 12-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - D.W.S.	REVISED - S.P.B. 01-07							
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - S.P.B. 12-09				TC-17	CONTRACT NO.		
	PLOT DATE = 4/17/2014	DATE - 11-96	REVISED - M.D. 06-13		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

tc17.dgn 4/17/2014 8:48:55 AM User=leysa

USER NAME = default	DESIGNED -	REVISED -	HBP Illinois Partners	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EB I-80 FROM GARDNER STREET TO ROWELL AVENUE DISTRICT ONE DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -				80	2013-008B	WILL	511	466
PLOT SCALE = $SCALE$	CHECKED -	REVISED -						CONTRACT NO. 60W34		
PLOT DATE = 6/24/2020	DATE - 6/25/2020	REVISED -			SCALE: N/A SHEET 16 OF 20 SHEETS STA. N/A TO STA. N/A		ILLINOIS	FED. AID PROJECT		

FILE NAME = D160W34-District One Details_01.dgn



NOTES:

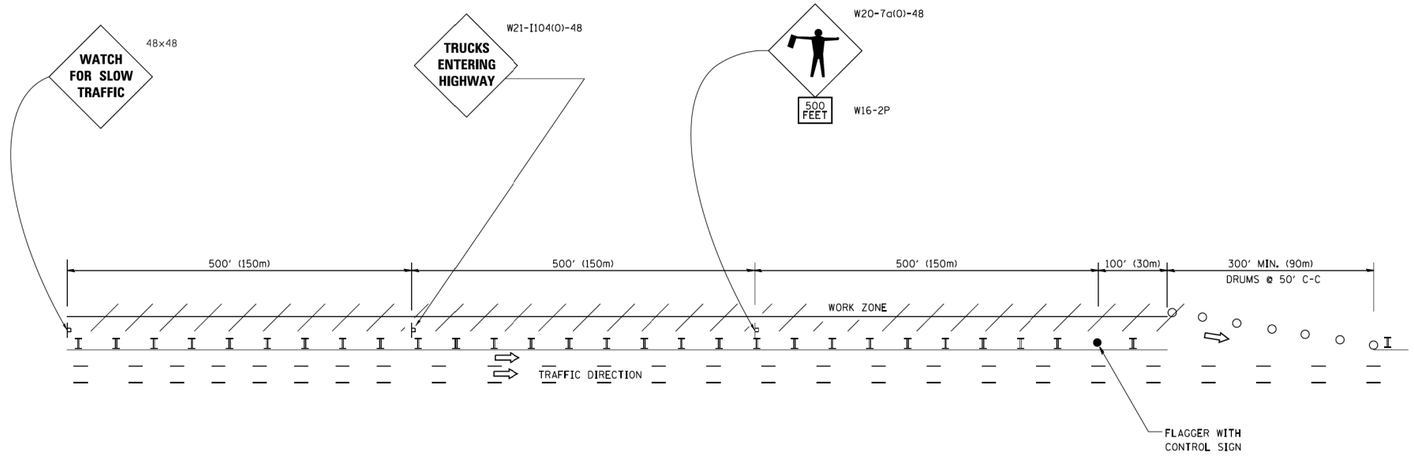
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
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.

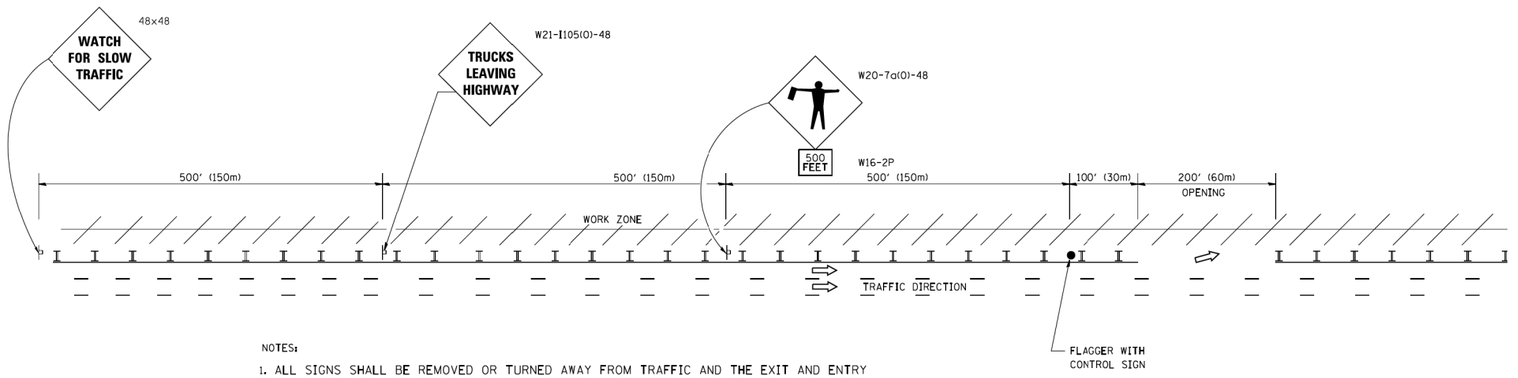
TC-22 ARTERIAL ROAD INFORMATION SIGN

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
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
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = c:\pw_work\pwidot\footemj\d0108315\tc18.dgn	USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS
		DRAWN -	REVISED - S.P.B. 01-07		
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED - S.P.B. 12-09		
	PLOT DATE = 7/8/2013	DATE -	REVISED - M.D. 06-13		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-18	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

tc18.dgn 7/8/2013 7:27:10 AM User:footemj

USER NAME = default	DESIGNED -	REVISED -	HBP Illinois Partners	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EB I-80 FROM GARDNER STREET TO ROWELL AVENUE DISTRICT ONE DETAILS
	DRAWN -	REVISED -			
PLOT SCALE = $SCALE$	CHECKED -	REVISED -			
PLOT DATE = 6/24/2020	DATE - 6/25/2020	REVISED -			SCALE: N/A | SHEET 17 OF 20 SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	467
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160W34-District One Details_01.dgn

ROUTE MARKERS

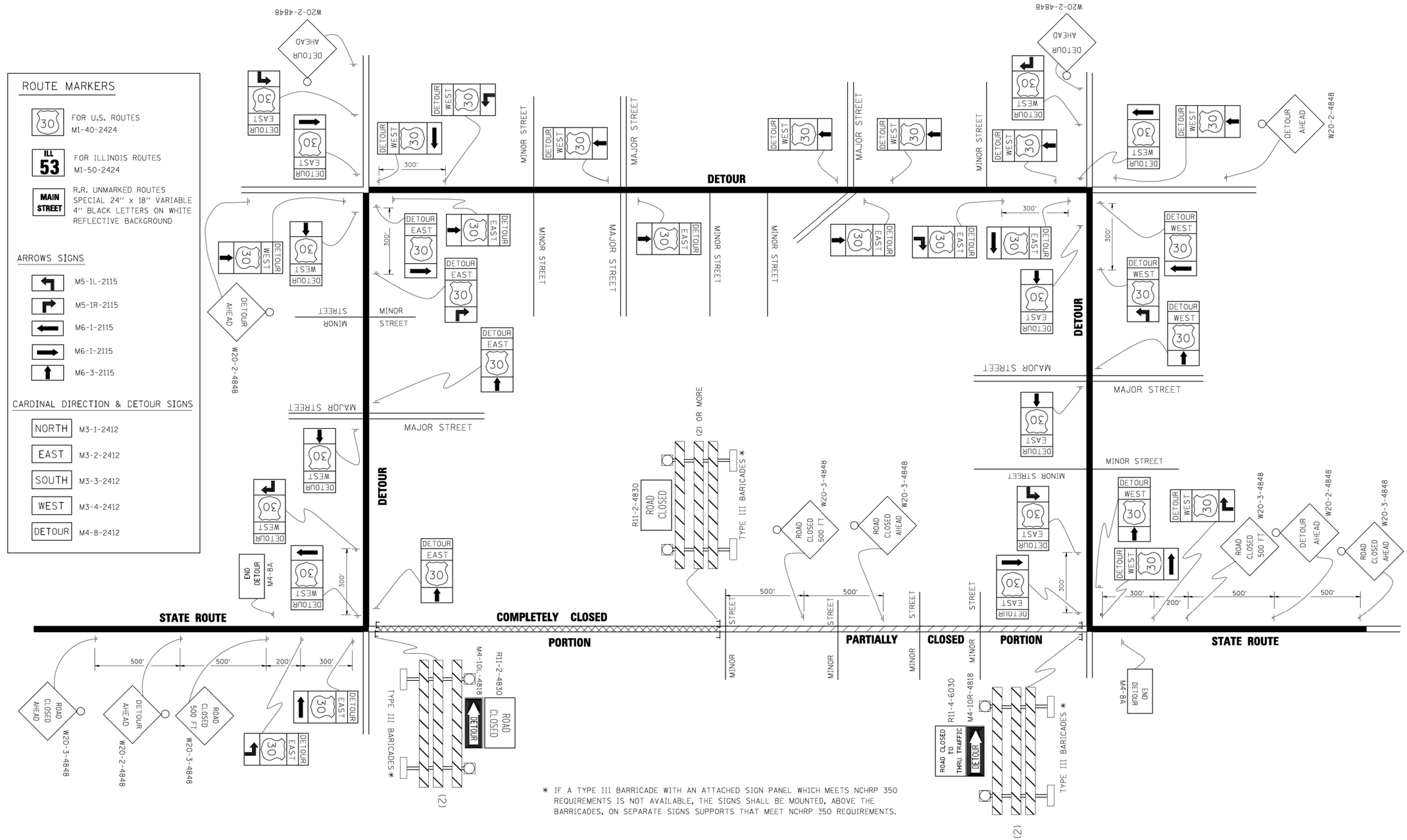
- 30 — FOR U.S. ROUTES M1-40-2424
- ILL 53 — FOR ILLINOIS ROUTES M1-50-2424
- MAIN STREET — R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

- M5-1L-2115
- M5-1R-2115
- M6-1-2115
- M6-1-2115
- M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

- NORTH M3-1-2412
- EAST M3-2-2412
- SOUTH M3-3-2412
- WEST M3-4-2412
- DETOUR M4-8-2412



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		DRAWN -	REVISED - R. BORO 09-14-09
	PLOT SCALE = 49.9999 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/14/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-21	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

USER NAME = default	DESIGNED -		REVISED -
	DRAWN -		REVISED -
PLOT SCALE = $SCALE$	CHECKED -		REVISED -
PLOT DATE = 6/24/2020	DATE -	6/25/2020	REVISED -

HBP Illinois Partners

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

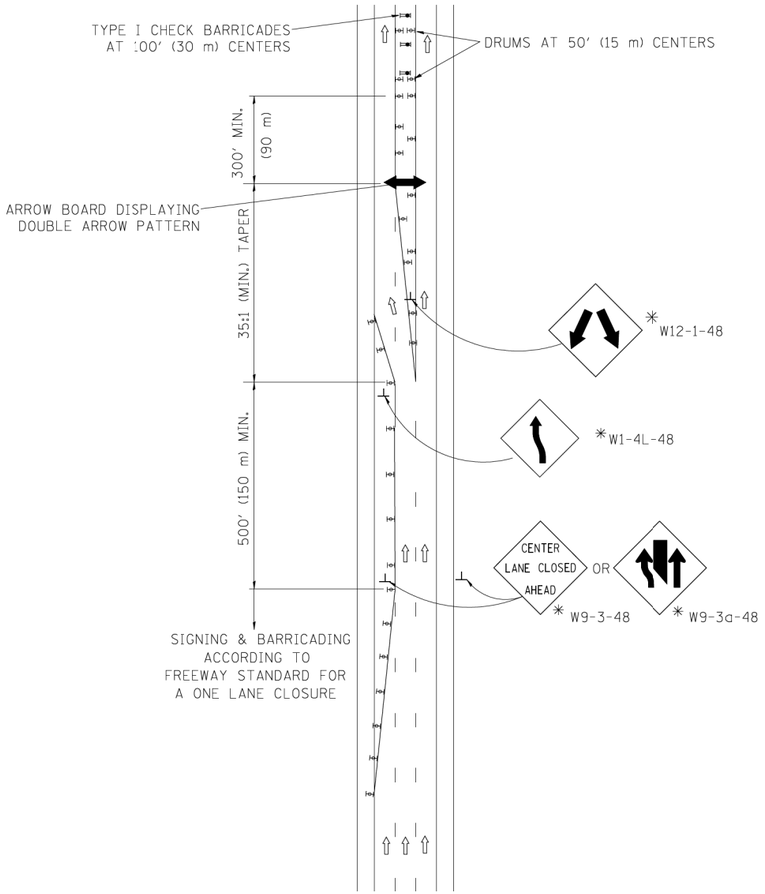
EB I-80 FROM GARDNER STREET TO ROWELL AVENUE
DISTRICT ONE DETAILS

SCALE: N/A | SHEET 18 OF 20 SHEETS | STA. N/A | TO STA. N/A

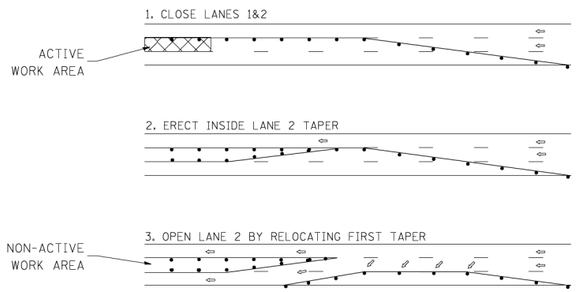
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	468
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160W34-District One Details_01.dgn

CENTER LANE CLOSURE



INSTALLATION SEQUENCE



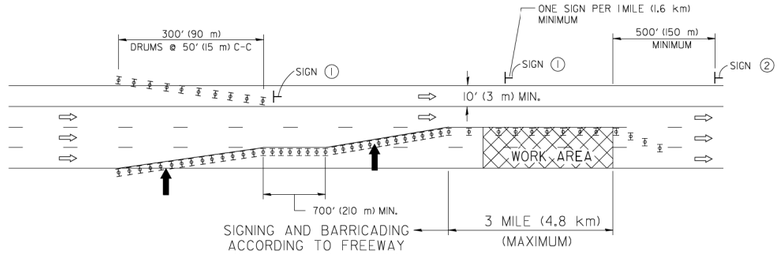
4. REMOVE CLOSURE IN REVERSE ORDER

NOTES

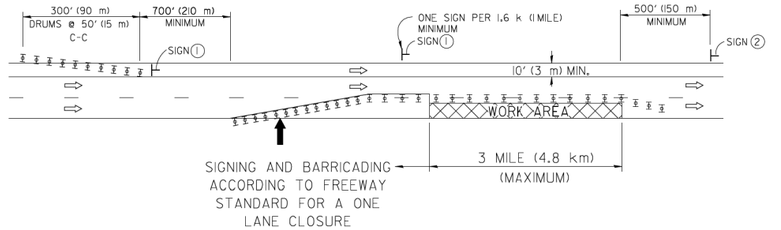
1. DRUMS WITH STEADY BURN LIGHTS SHALL BE USED AT 50' (15 m) CENTERS ON ALL TAPERS AND TANGENTS IN ADVANCE OF WORK AREA.
2. CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.
3. CENTER LANE CLOSURE CONFIGURATION IS NOT TO BE USED WITH WORKERS PRESENT.

SHOULDER LANE

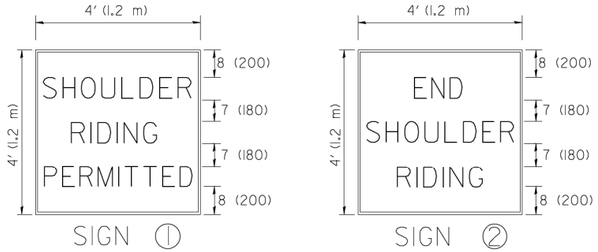
NOTE: CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.



SIGNING AND BARRICADING ACCORDING TO FREEWAY STANDARD FOR A TWO LANE CLOSURE



SIGNING AND BARRICADING ACCORDING TO FREEWAY STANDARD FOR A ONE LANE CLOSURE



6 (150) SERIES 'C' LEGEND
BLACK LEGEND
WHITE REFLECT. BACKGROUND
1 (25) BORDER

SYMBOLS

- DIRECTION OF TRAFFIC
- ARROWBOARD
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT *
- TYPE II BARRICADE, OR DRUM WITH MONO-DIRECTIONAL STEADY BURN LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

* ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

FILE NAME = W:\diststd\22x34\tc25.dgn	USER NAME = leysa	DESIGNED -	REVISED - J.A.F. 04-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY CENTER LANE CLOSURE SHOULDER LANE
		DRAWN -	REVISED - S.P.B. 01-07		
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - S.P.B. 12-09		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 1/26/2010	DATE -	REVISED -		

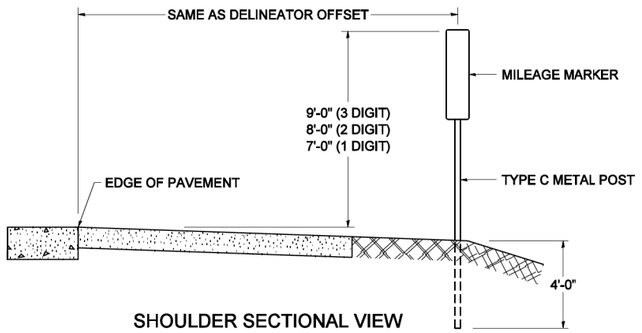
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-25	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

USER NAME = default	DESIGNED -		REVISED -	HBP Illinois Partners	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -		REVISED -		
PLOT SCALE = $SCALE$	CHECKED -		REVISED -		EB I-80 FROM GARDNER STREET TO ROWELL AVENUE DISTRICT ONE DETAILS
PLOT DATE = 6/24/2020	DATE -	6/25/2020	REVISED -		SCALE: N/A | SHEET 19 OF 20 SHEETS | STA. N/A | TO STA. N/A

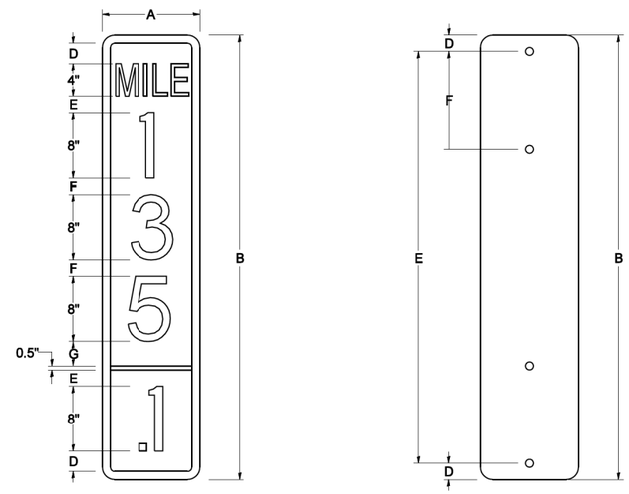
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	469
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160W34-District One Details_01.dgn

STANDARD DESIGN FOR MILE POST



SHOULDER SECTIONAL VIEW

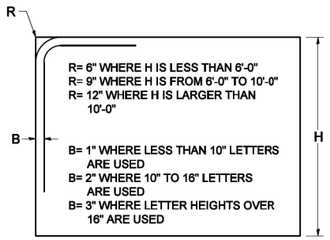


SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	DIGIT
12 x 24	12.0	24.0	1.5	1.5	1.5	N/A	1.5	1
12 x 36	12.0	36.0	1.5	2.0	2.0	2.0	1.5	2
12 x 48	12.0	48.0	1.5	2.5	2.0	2.0	2.5	3

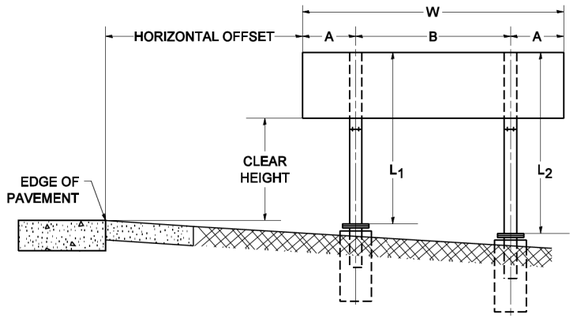
SIGN SIZE	SERIES LINES					BORDER	BLANK STD.
	1	2	3	4	5		
12 x 24	4C	8D	4C	N/A	N/A	0.5	B9-1224
12 x 36	4C	8D	8D	4C	N/A	0.5	B9-1236
12 x 48	4C	8D	8D	8D	4C	0.5	B9-1248

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

BORDER AND RADIUS LAYOUT



MAJOR GUIDE SIGN LAYOUT

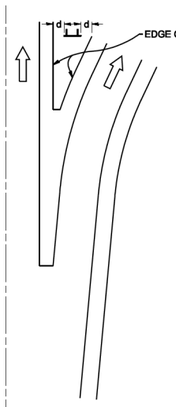


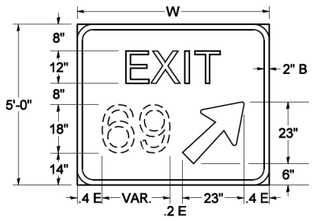
NUMBER OF STEEL SUPPORTS	A	B
2	.2 W	.6 W
3	.15 W	.35 W
4	.125 W	.25 W
5	.1 W	.2 W

"L_1 IS THE LENGTH OF SUPPORT, NOT INCLUDING THE STUB PROJECTION, CLOSEST TO THE EDGE OF THE PAVEMENT.

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

GORE SIGNS

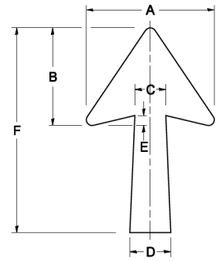




DIGITS	W	d
1 OR 2	6'-0"	2'-0"
3	7'-6"	1'-3"
4 OR 5	9'-0"	1'-0"

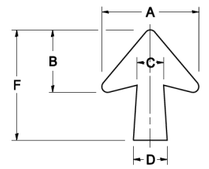
E= WIDTH - VAR. - 23"

STANDARD ARROWS FOR INTERSTATE GUIDE SIGNS



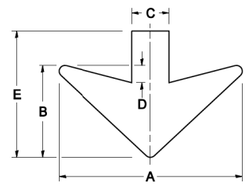
ARROW SYMBOL	A	B	C	D	E	F	R
24¼ x 15⅛	15⅛	11⅜	3¾	5	1⅝	24¼	⅝
29¼ x 18¼	18¼	14	4½	6	1½	29¼	¾
35⅝ x 22¼	22¼	17	5⅜	7⅛	1¾	35⅝	1
18¼ x 11¼	11¼	8¾	3⅛	3⅞		18¼	

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



ARROW SYMBOL	A	B	C	D	E	F	R
17¼ x 14¼	14¼	9⅝	3⅜	4½	⅝	17¼	¾
20¼ x 17¼	17¼	11¾	4⅜	5⅝	1½	20¼	
25 x 21⅞	21⅞	14¼	5	6¾	1¾	25	1
9⅝ x 8⅞	8⅞	5⅞	2⅛	2⅝		9⅝	½

DOWN ARROWS



ARROW SYMBOL	A	B	C	D	E	R
16½ x 24	24	12	5	1½	16½	¾
22 x 32	32	16	6½	3	22	1

FILE NAME = tc27.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - 02-04-2009
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/4/2009	DATE - 03-08-1984	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MILE POST MARKERS – GORE SIGNS
MAJOR GUIDE SIGN LAYOUT – ARROWS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-27 (TS-2341-1)	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

USER NAME = default	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = 6/24/2020	DATE - 6/25/2020	REVISED -	

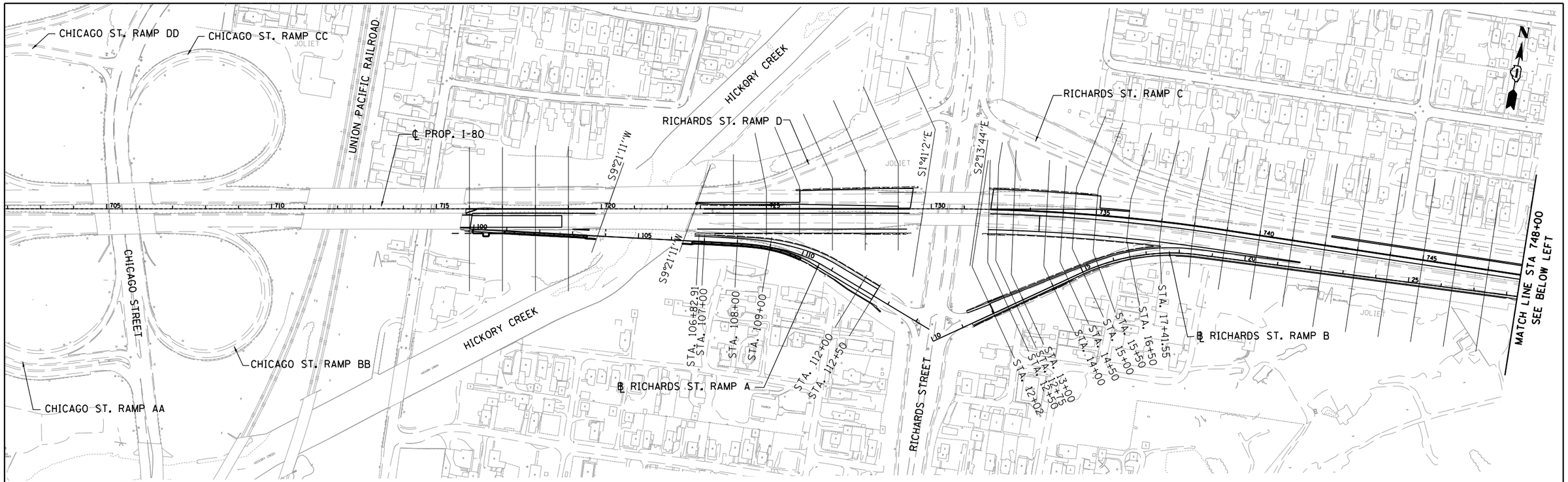
HBP Illinois Partners

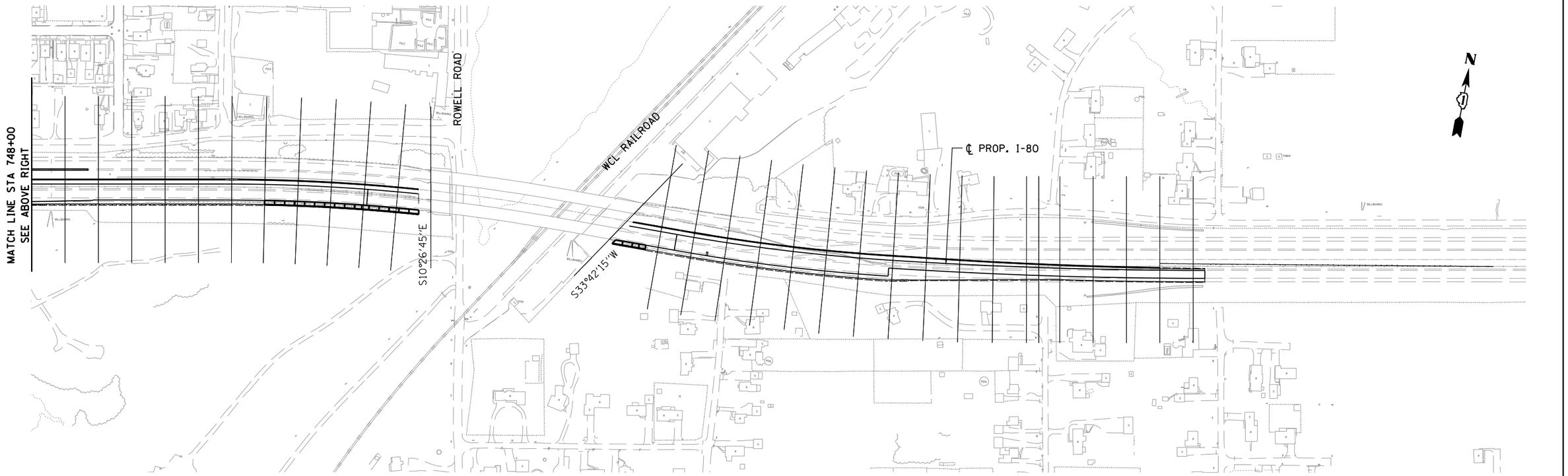
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET 20 OF 20 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	470
		CONTRACT NO. 60W34		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160W34-District One Details_01.dgn





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	DRAWN - ATR	REVISED -	
PLOT SCALE = 300.000 ' / in.	CHECKED - MAM	REVISED -	
PLOT DATE = 6/24/2020	DATE - 11/07/14	REVISED -	

FILE NAME = D160W34-XSINDEX-01.dgn

HBP Illinois Partners

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB I-80 FROM GARDNER STREET TO ROWELL AVENUE
CROSS SECTION INDEX

SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. 702+00 TO STA. 730+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	471
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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

DATE	BY

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

DATE	BY

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

580 575 570 565 560 555 550 545

STAGE 1 STAGE 2A STAGE 2

716 + 00.00

STAGE 1		STAGE 2		STAGE 2A	
T.S. REMOVAL	0.7	T.S. REMOVAL	0	T.S. REMOVAL	0
EXCAVATION	87.2	EXCAVATION	0	EXCAVATION	0
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	0.4	EMBANKMENT	0	EMBANKMENT	0

FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

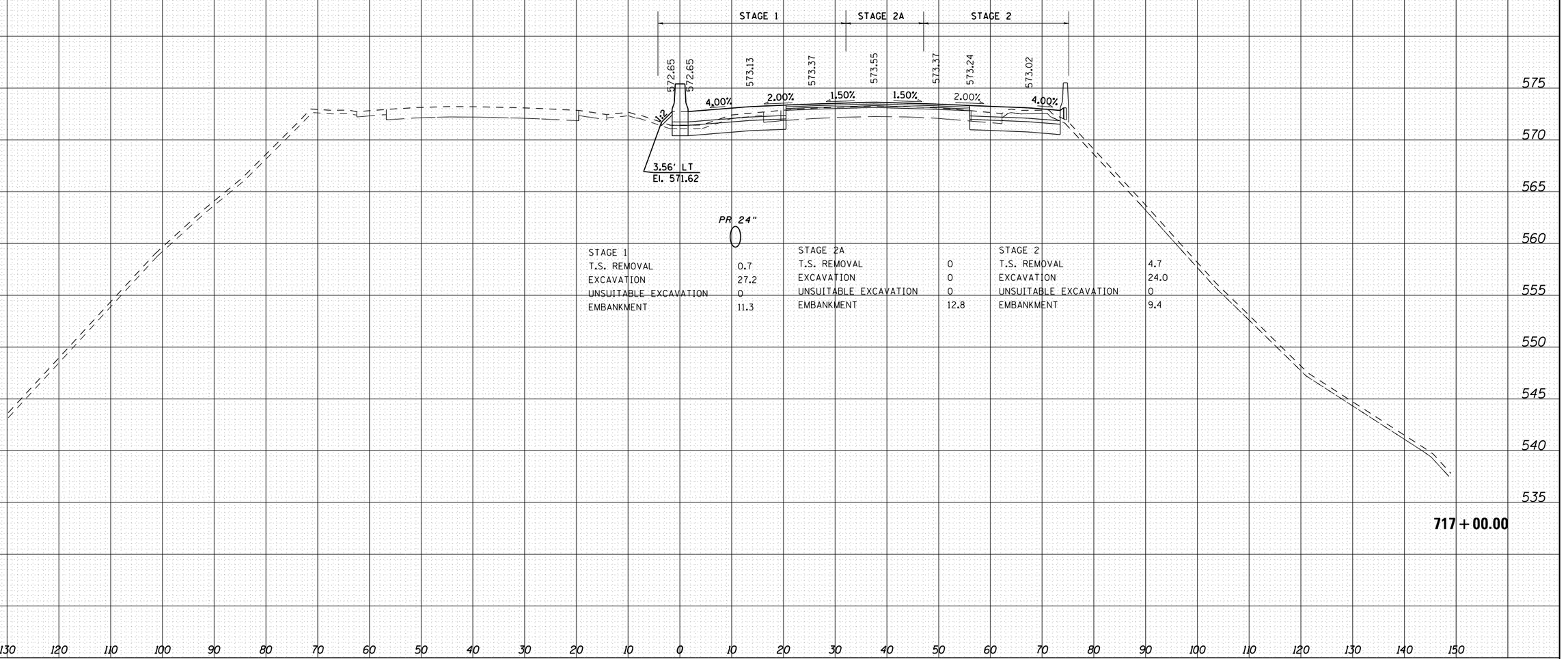
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 711+02.97 TO STA. 715+80.48

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	472
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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



STAGE 1		STAGE 2A		STAGE 2	
T.S. REMOVAL	0.7	T.S. REMOVAL	0	T.S. REMOVAL	4.7
EXCAVATION	27.2	EXCAVATION	0	EXCAVATION	24.0
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	11.3	EMBANKMENT	12.8	EMBANKMENT	9.4

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

FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 717+00.00 TO STA. 717+00.00

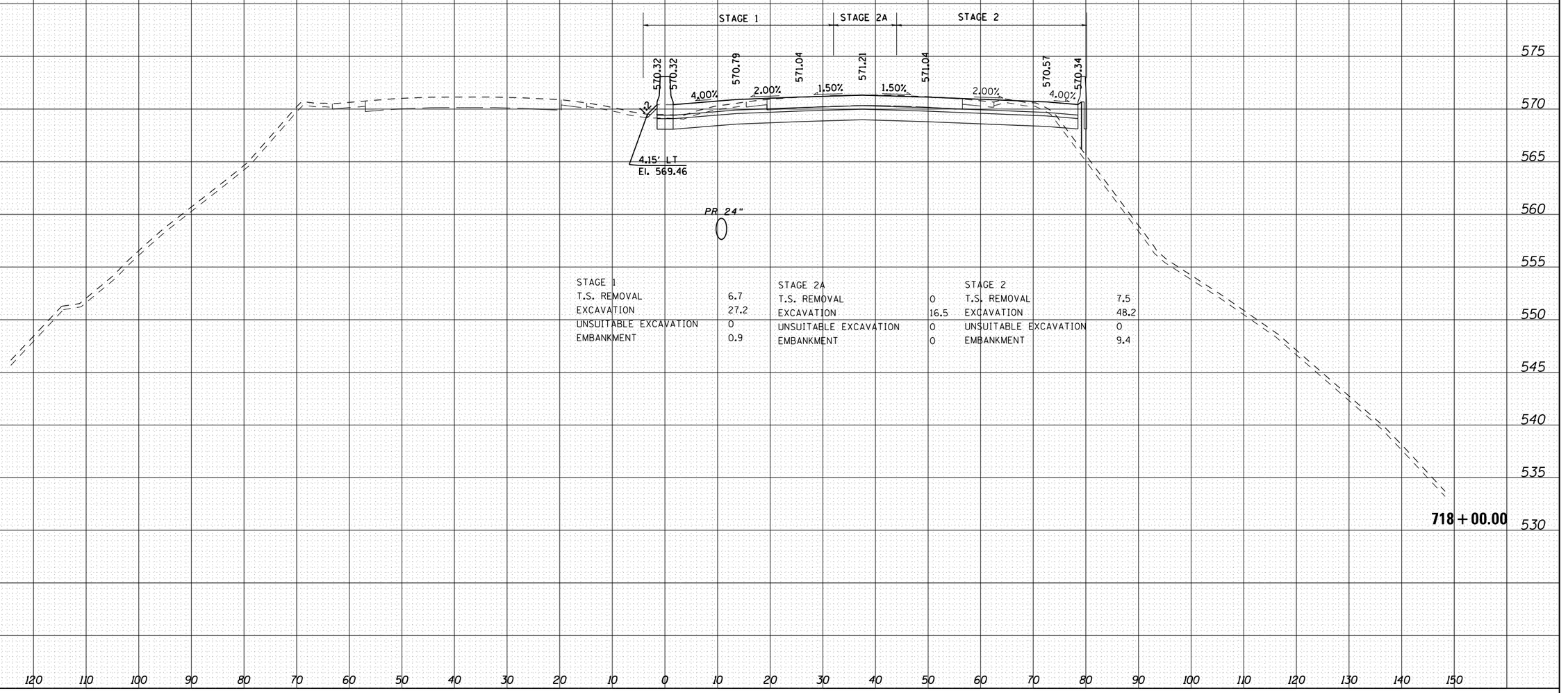
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	473
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		

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

BY	DATE

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

BY	DATE



STAGE 1		STAGE 2A		STAGE 2	
T.S. REMOVAL	6.7	T.S. REMOVAL	0	T.S. REMOVAL	7.5
EXCAVATION	27.2	EXCAVATION	16.5	EXCAVATION	48.2
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	0.9	EMBANKMENT	0	EMBANKMENT	9.4

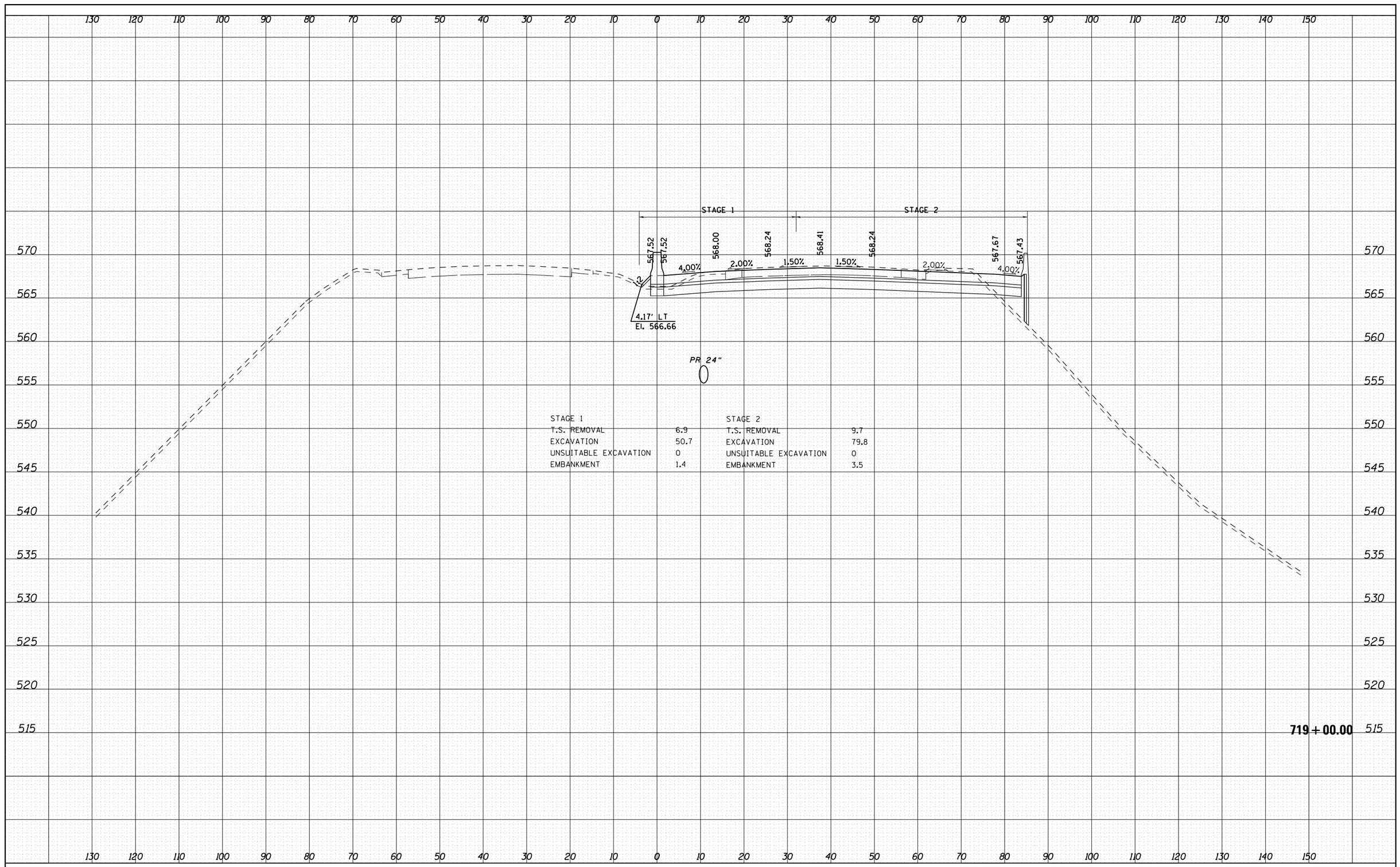
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I–80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 718+00.00 TO STA. 718+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	474
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



STAGE 1		STAGE 2	
T.S. REMOVAL	6.9	T.S. REMOVAL	9.7
EXCAVATION	50.7	EXCAVATION	79.8
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	1.4	EMBANKMENT	3.5

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

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

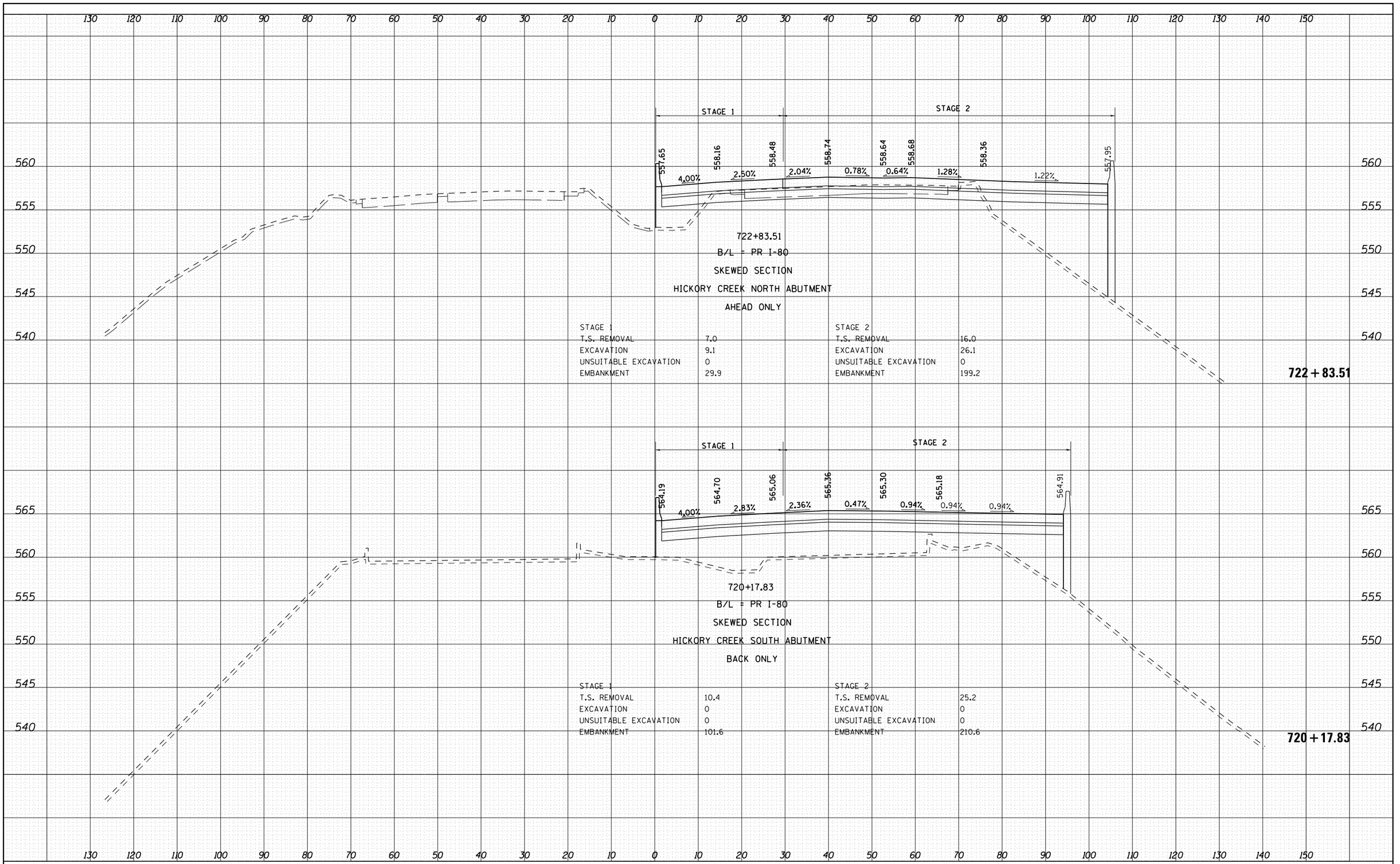
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I–80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 719+00.00 TO STA. 719+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	475
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



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

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

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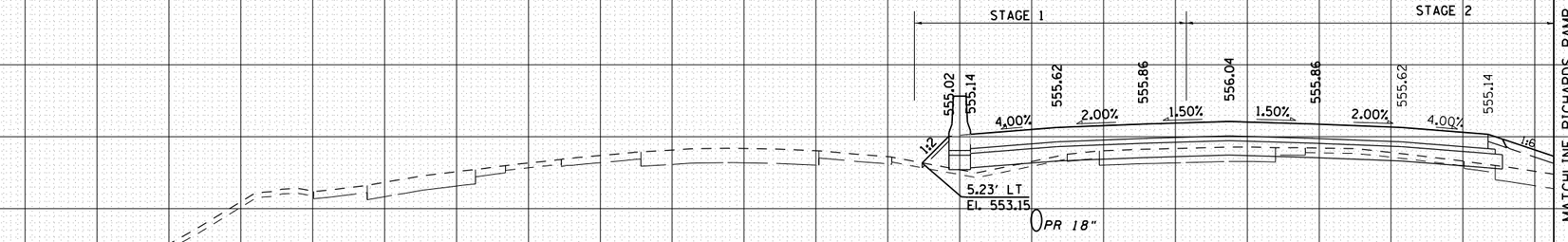
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I–80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 720+17.83 TO STA. 722+83.51

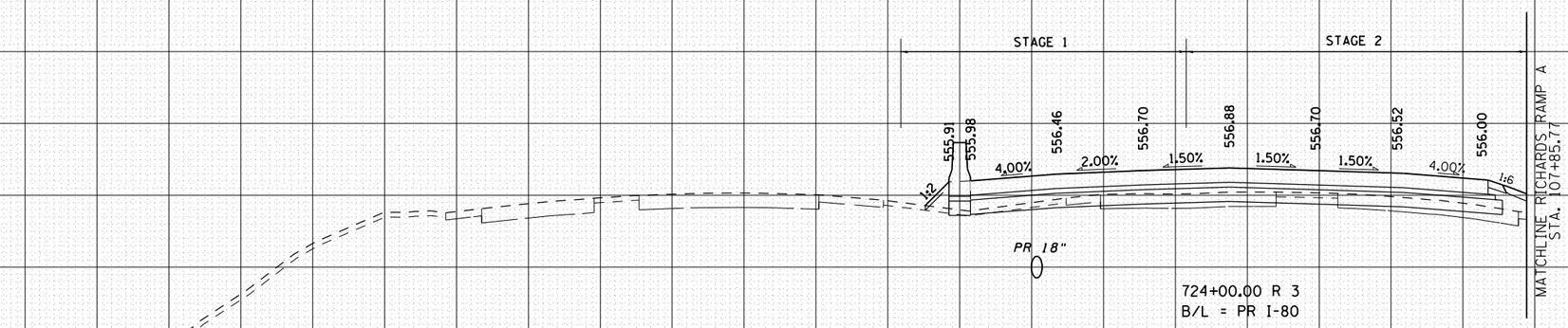
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	476
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		



725+00.00 R 3
B/L = PR I-80

STAGE 1		STAGE 2	
T.S. REMOVAL	8.2	T.S. REMOVAL	7.3
EXCAVATION	0.2	EXCAVATION	5.7
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	21.7	EMBANKMENT	23.0

725 + 00.00



724+00.00 R 3
B/L = PR I-80

STAGE 1		STAGE 2	
T.S. REMOVAL	8.5	T.S. REMOVAL	2.9
EXCAVATION	2.7	EXCAVATION	3.8
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	13.0	EMBANKMENT	19.6

724 + 00.00

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

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

FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
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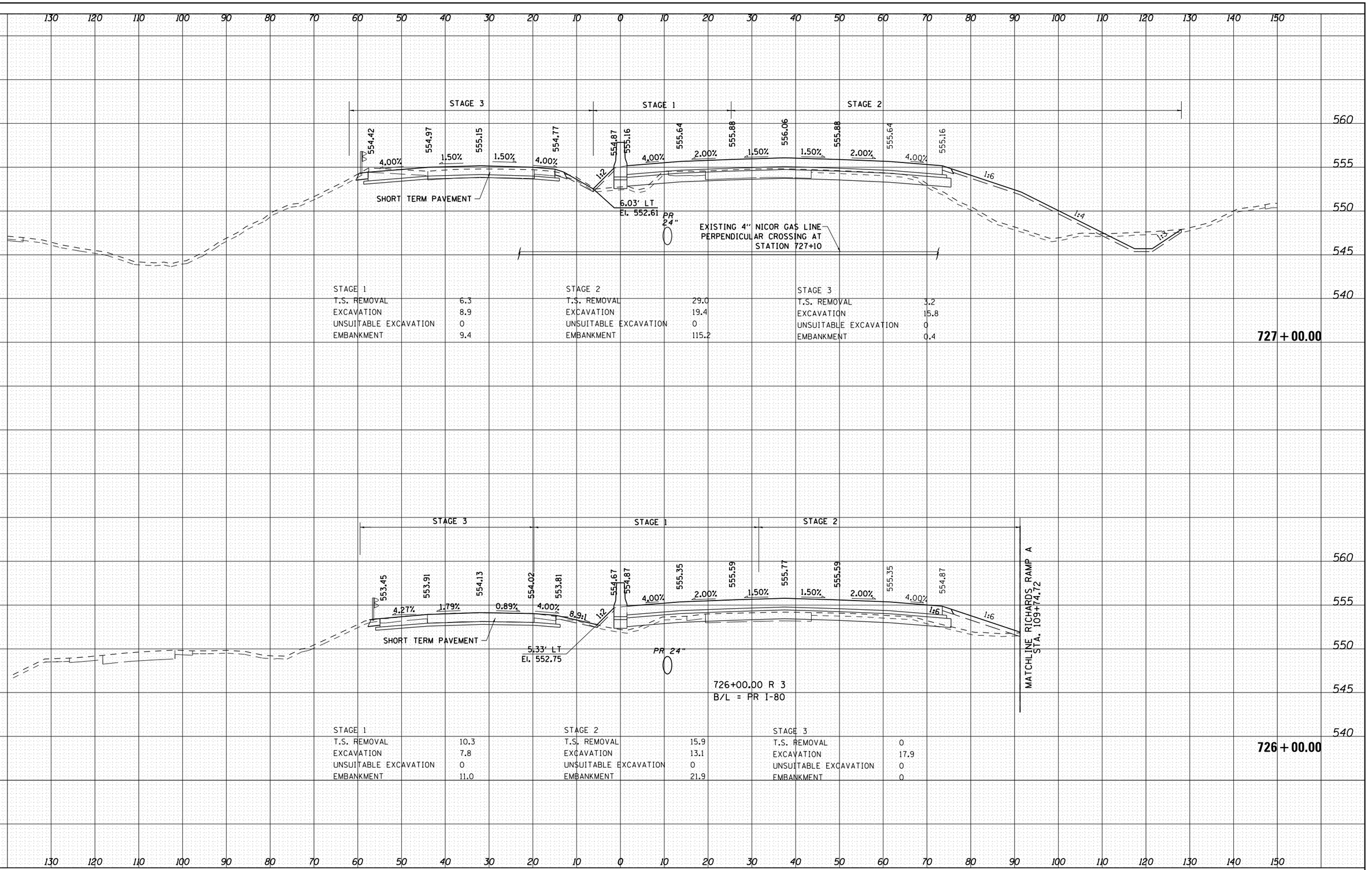
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I–80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 724+00.00 TO STA. 725+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	477
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



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

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

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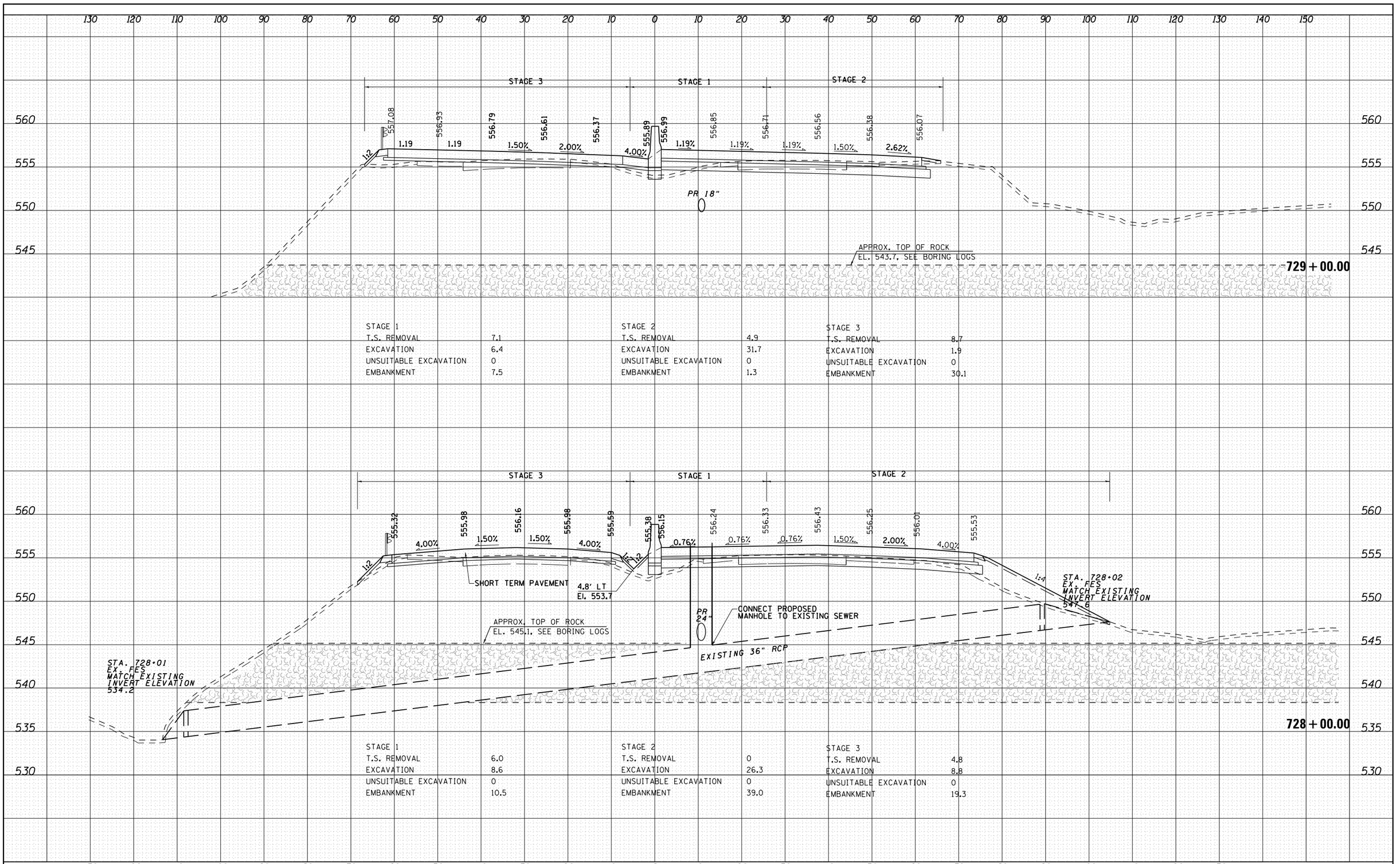
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 726+00.00 TO STA. 727+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	478
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		



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

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

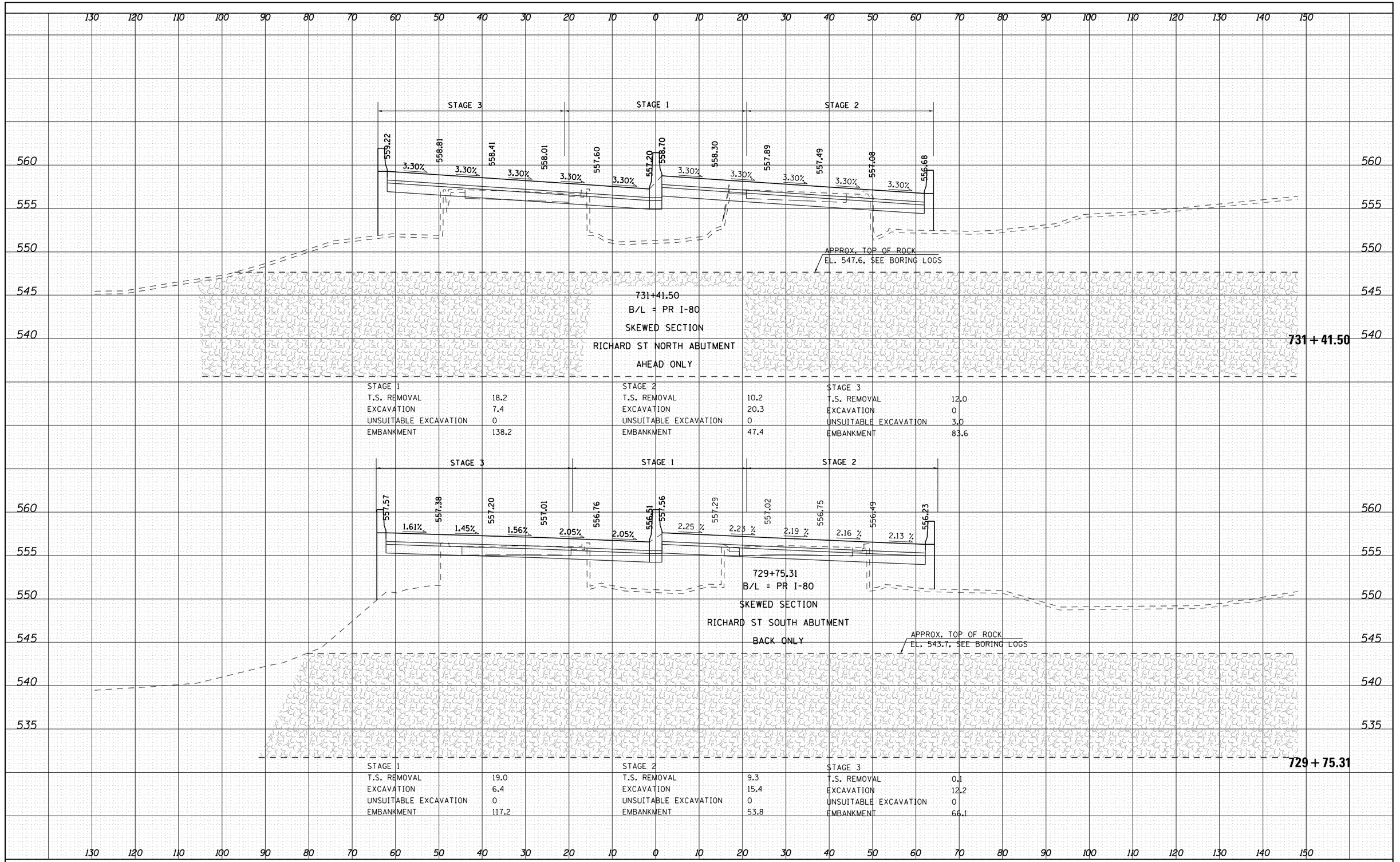
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	479
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		



STAGE 1		STAGE 2		STAGE 3	
T.S. REMOVAL	18.2	T.S. REMOVAL	10.2	T.S. REMOVAL	12.0
EXCAVATION	7.4	EXCAVATION	20.3	EXCAVATION	0
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	3.0
EMBANKMENT	138.2	EMBANKMENT	47.4	EMBANKMENT	83.6

STAGE 1		STAGE 2		STAGE 3	
T.S. REMOVAL	19.0	T.S. REMOVAL	9.3	T.S. REMOVAL	0.1
EXCAVATION	6.4	EXCAVATION	15.4	EXCAVATION	12.2
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	117.2	EMBANKMENT	53.8	EMBANKMENT	66.1

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

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

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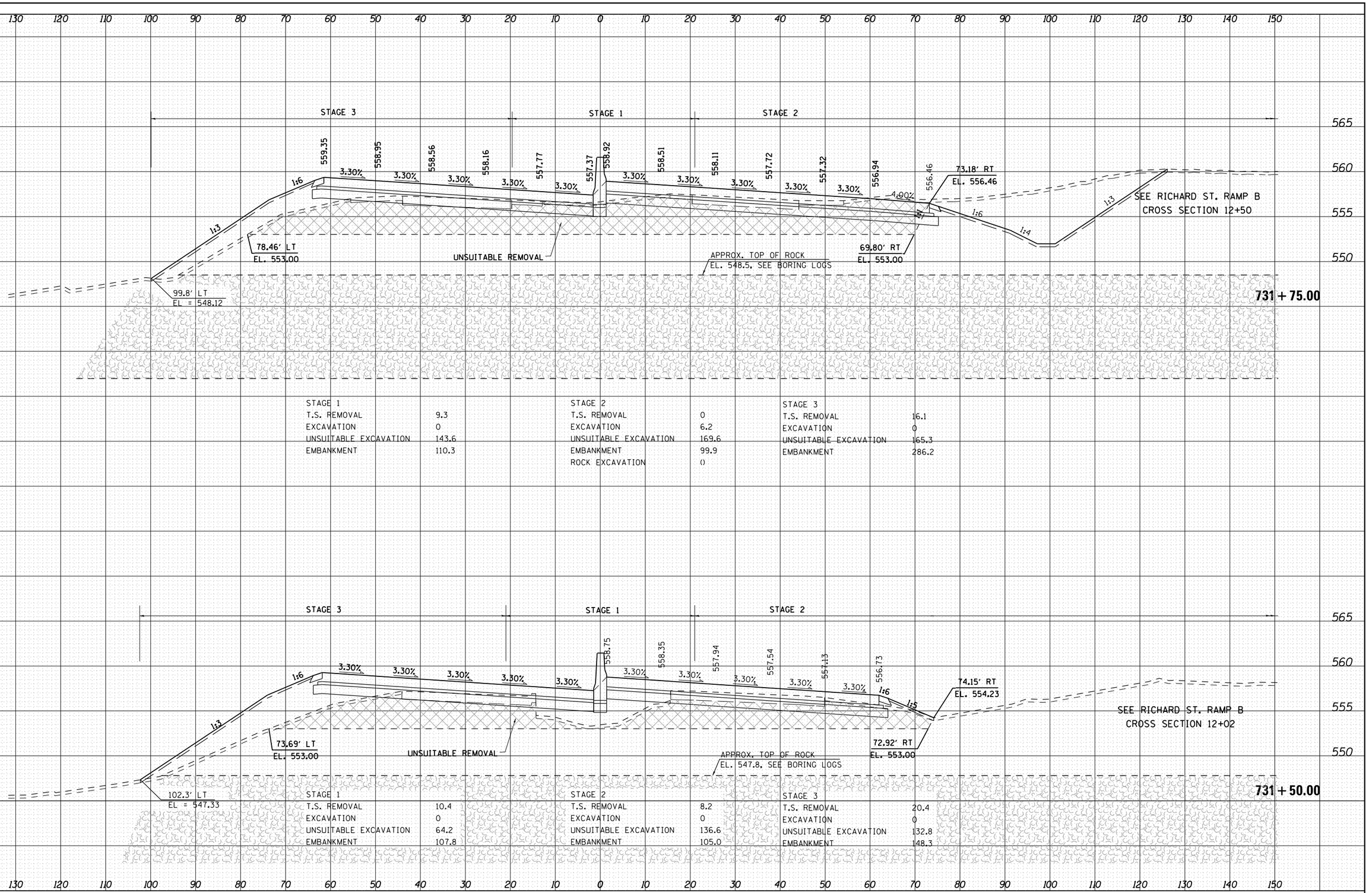
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 729+75.31 TO STA. 731+41.50

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	480
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		



STAGE 1	
T.S. REMOVAL	9.3
EXCAVATION	0
UNSUITABLE EXCAVATION	143.6
EMBANKMENT	110.3

STAGE 2	
T.S. REMOVAL	0
EXCAVATION	6.2
UNSUITABLE EXCAVATION	169.6
EMBANKMENT	99.9
ROCK EXCAVATION	0

STAGE 3	
T.S. REMOVAL	16.1
EXCAVATION	0
UNSUITABLE EXCAVATION	165.3
EMBANKMENT	286.2

STAGE 1	
T.S. REMOVAL	10.4
EXCAVATION	0
UNSUITABLE EXCAVATION	64.2
EMBANKMENT	107.8

STAGE 2	
T.S. REMOVAL	8.2
EXCAVATION	0
UNSUITABLE EXCAVATION	136.6
EMBANKMENT	105.0

STAGE 3	
T.S. REMOVAL	20.4
EXCAVATION	0
UNSUITABLE EXCAVATION	132.8
EMBANKMENT	148.3

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

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

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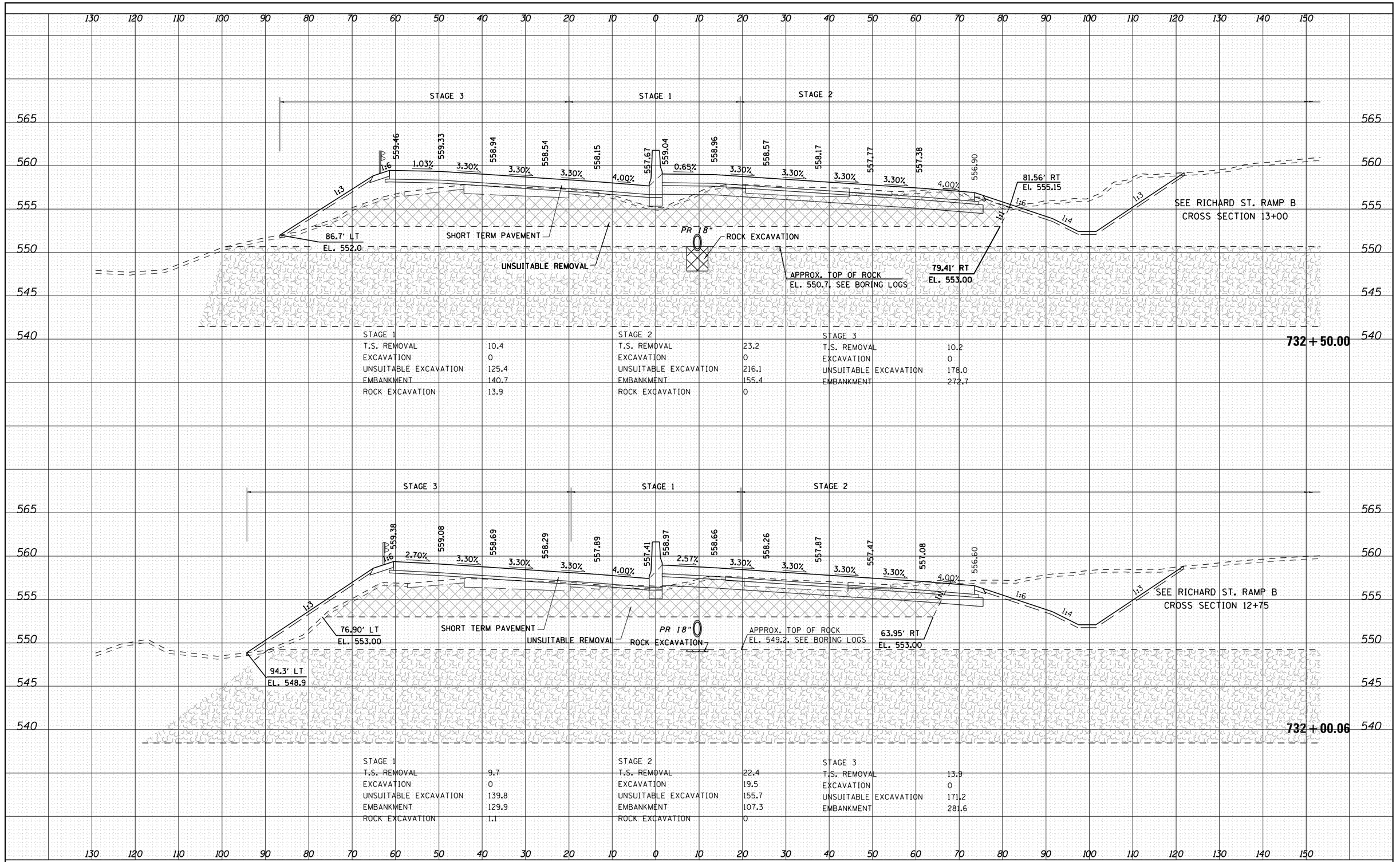
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 731+50.00 TO STA. 731+75.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	481
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		



STAGE 1	
T.S. REMOVAL	10.4
EXCAVATION	0
UNSUITABLE EXCAVATION	125.4
EMBANKMENT	140.7
ROCK EXCAVATION	13.9

STAGE 2	
T.S. REMOVAL	23.2
EXCAVATION	0
UNSUITABLE EXCAVATION	216.1
EMBANKMENT	155.4
ROCK EXCAVATION	0

STAGE 3	
T.S. REMOVAL	10.2
EXCAVATION	0
UNSUITABLE EXCAVATION	178.0
EMBANKMENT	272.7

STAGE 1	
T.S. REMOVAL	9.7
EXCAVATION	0
UNSUITABLE EXCAVATION	139.8
EMBANKMENT	129.9
ROCK EXCAVATION	1.1

STAGE 2	
T.S. REMOVAL	22.4
EXCAVATION	19.5
UNSUITABLE EXCAVATION	155.7
EMBANKMENT	107.3
ROCK EXCAVATION	0

STAGE 3	
T.S. REMOVAL	13.9
EXCAVATION	0
UNSUITABLE EXCAVATION	171.2
EMBANKMENT	281.6

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

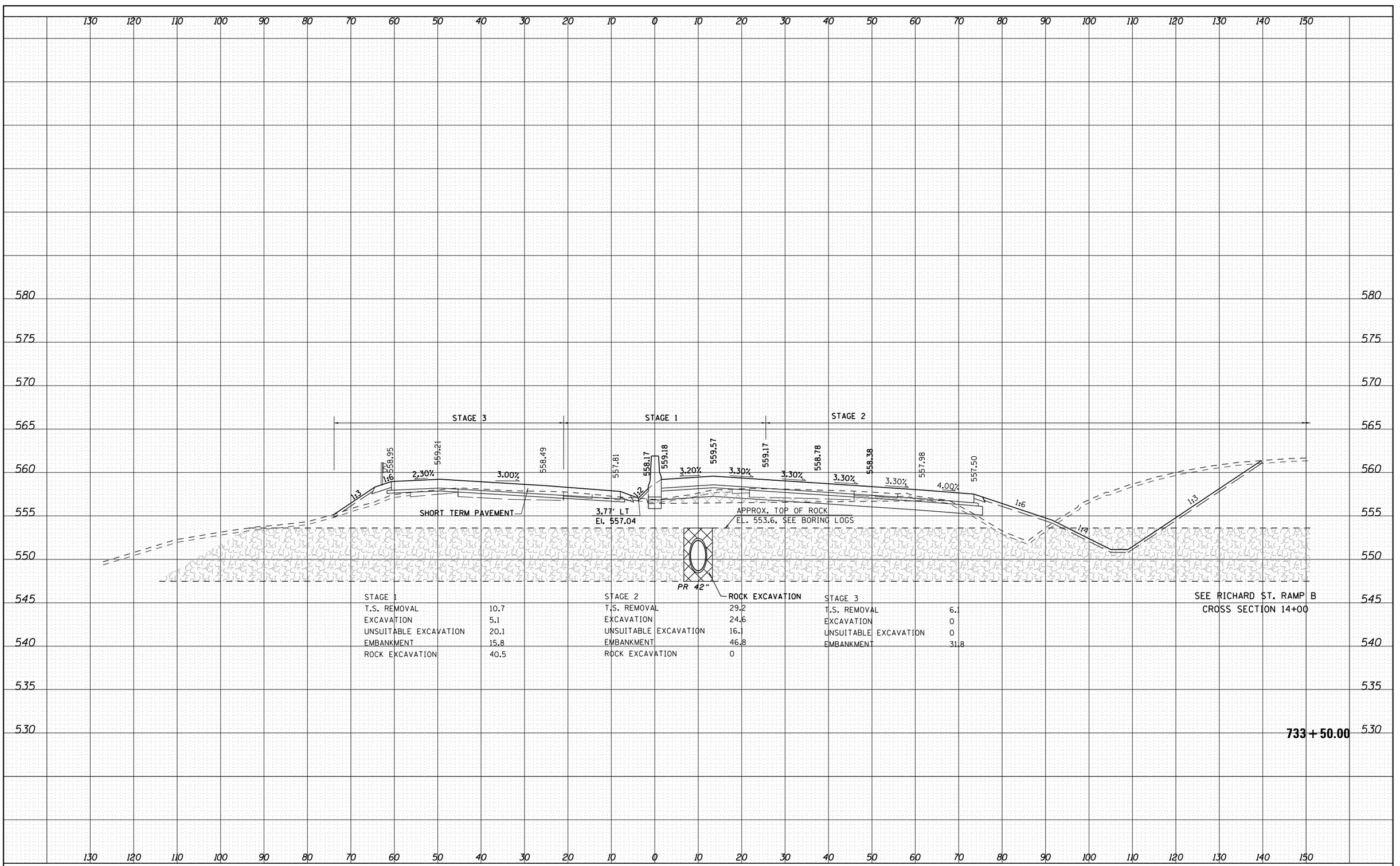
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 732+00.06 TO STA. 732+50.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	482
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		



STAGE 1		STAGE 2		STAGE 3	
T.S. REMOVAL	10.7	T.S. REMOVAL	29.2	T.S. REMOVAL	6.1
EXCAVATION	5.1	EXCAVATION	24.6	EXCAVATION	0
UNSUITABLE EXCAVATION	20.1	UNSUITABLE EXCAVATION	16.1	UNSUITABLE EXCAVATION	0
EMBANKMENT	15.8	EMBANKMENT	46.8	EMBANKMENT	31.8
ROCK EXCAVATION	40.5	ROCK EXCAVATION	0		

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

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

FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

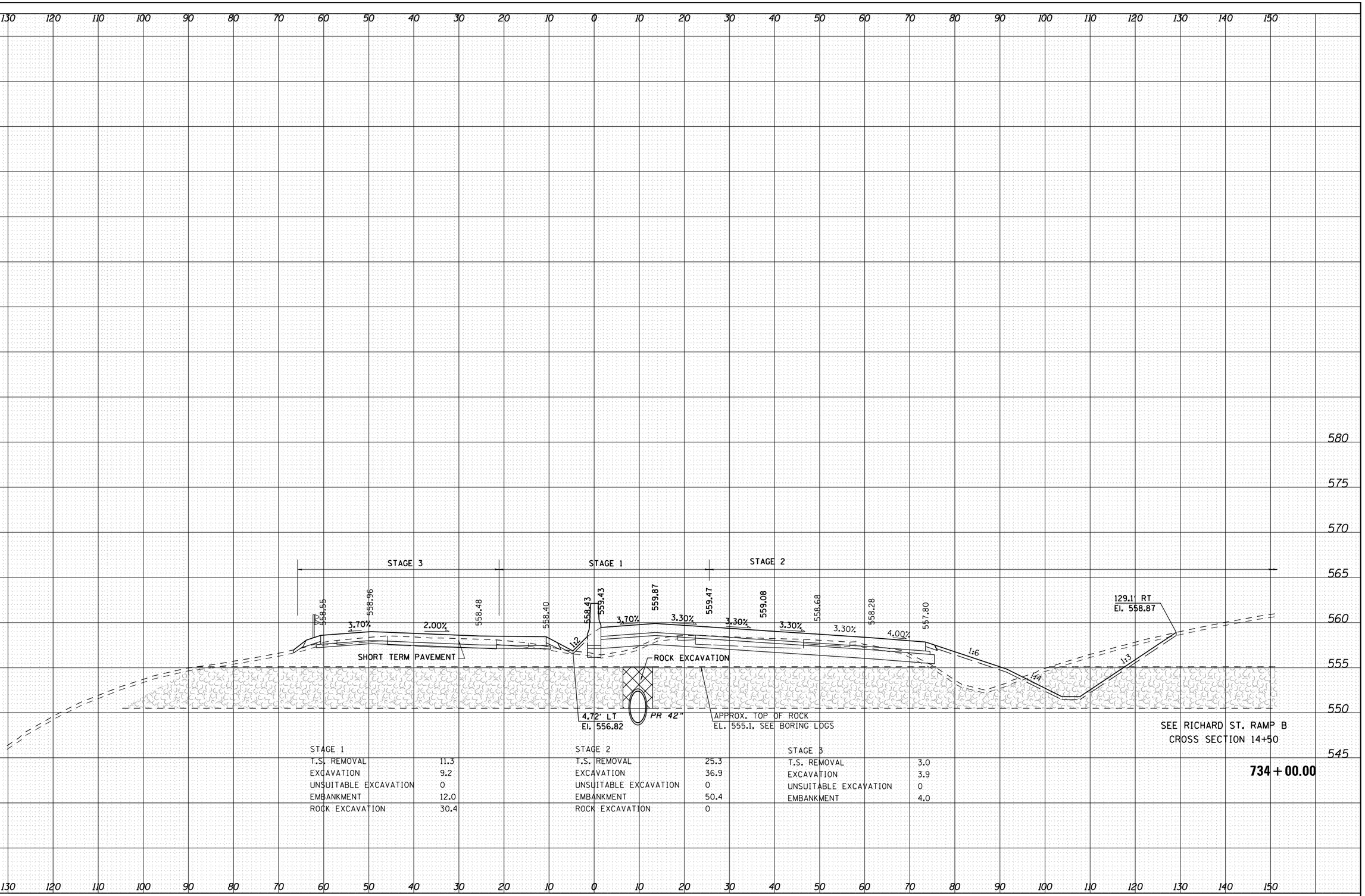
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I–80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 733+50.00 TO STA. 733+50.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	483
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		

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



STAGE 1		STAGE 2		STAGE 3	
T.S. REMOVAL	11.3	T.S. REMOVAL	25.3	T.S. REMOVAL	3.0
EXCAVATION	9.2	EXCAVATION	36.9	EXCAVATION	3.9
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	12.0	EMBANKMENT	50.4	EMBANKMENT	4.0
ROCK EXCAVATION	30.4	ROCK EXCAVATION	0		

734+00.00

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

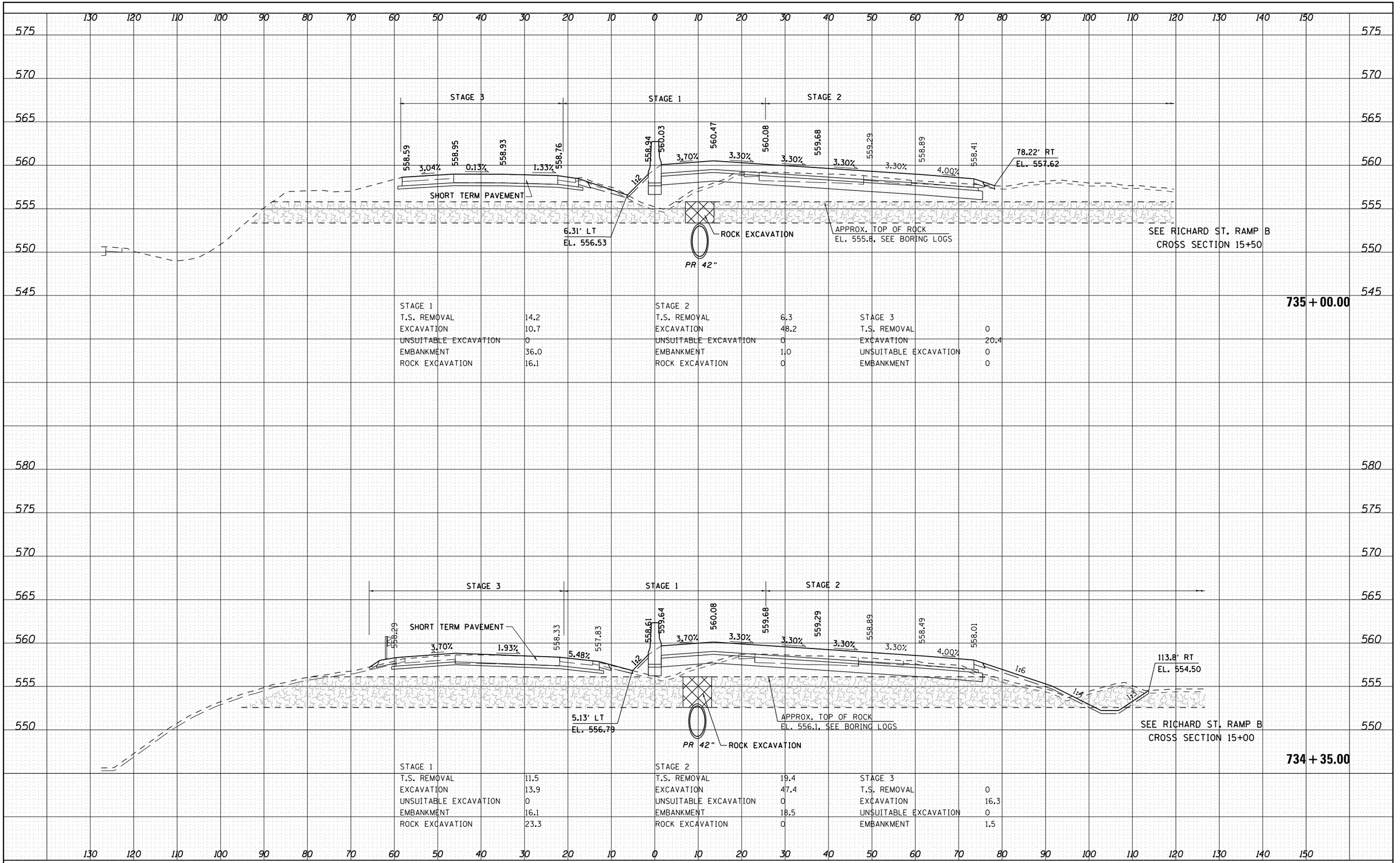
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 734+00.00 TO STA. 734+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	484
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		



STAGE 1		STAGE 2		STAGE 3	
T.S. REMOVAL	14.2	T.S. REMOVAL	6.3	T.S. REMOVAL	0
EXCAVATION	10.7	EXCAVATION	48.2	EXCAVATION	20.4
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	36.0	EMBANKMENT	1.0	EMBANKMENT	0
ROCK EXCAVATION	16.1	ROCK EXCAVATION	0		

STAGE 1		STAGE 2		STAGE 3	
T.S. REMOVAL	11.5	T.S. REMOVAL	19.4	T.S. REMOVAL	0
EXCAVATION	13.9	EXCAVATION	47.4	EXCAVATION	16.3
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	16.1	EMBANKMENT	18.5	EMBANKMENT	1.5
ROCK EXCAVATION	23.3	ROCK EXCAVATION	0		

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

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

FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

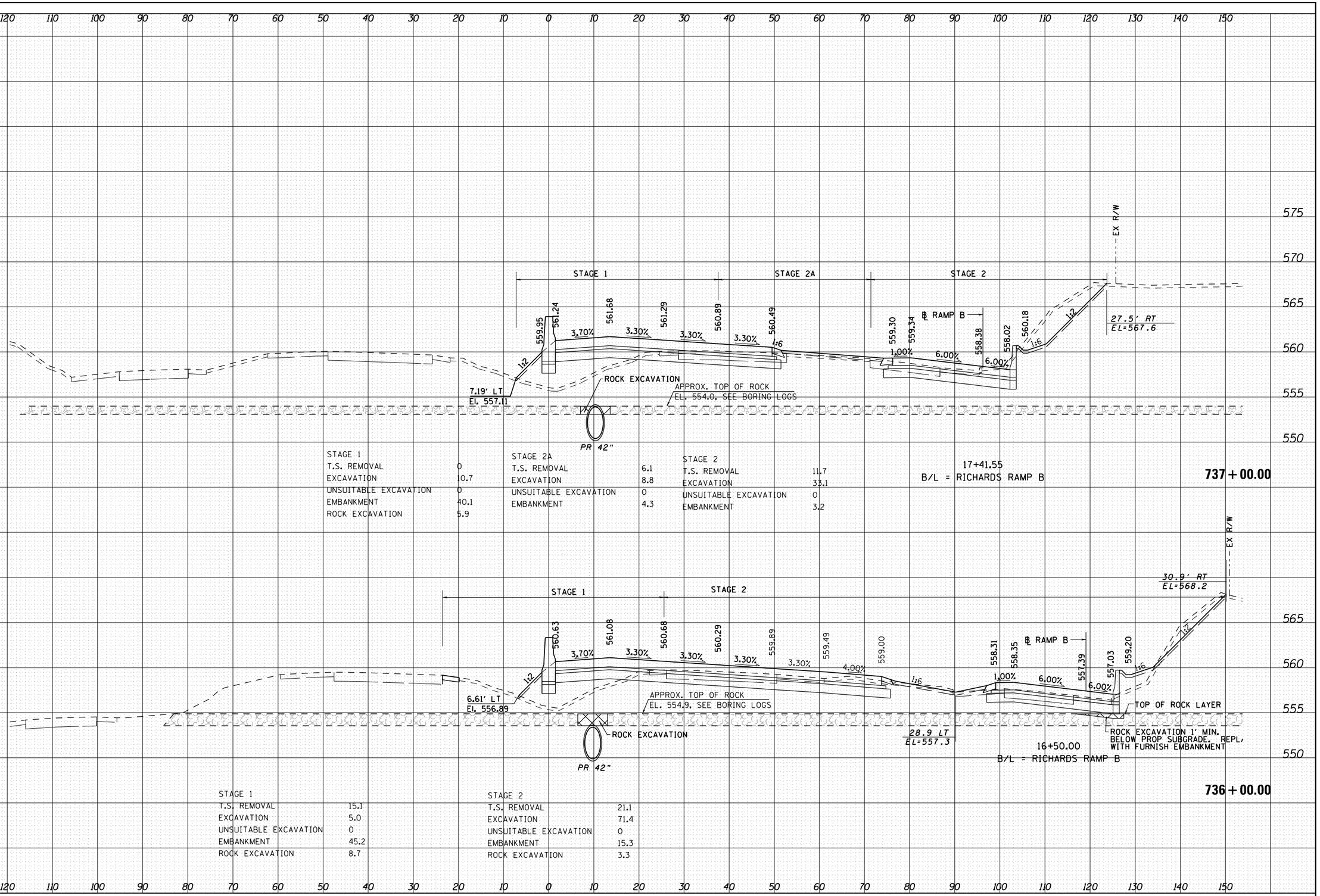
PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 734+35.00 TO STA. 735+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	485
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	NO.	NOTE BOOK	BY	DATE

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED



ORIGINAL SURVEY	NO.	NOTE BOOK	BY	DATE

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

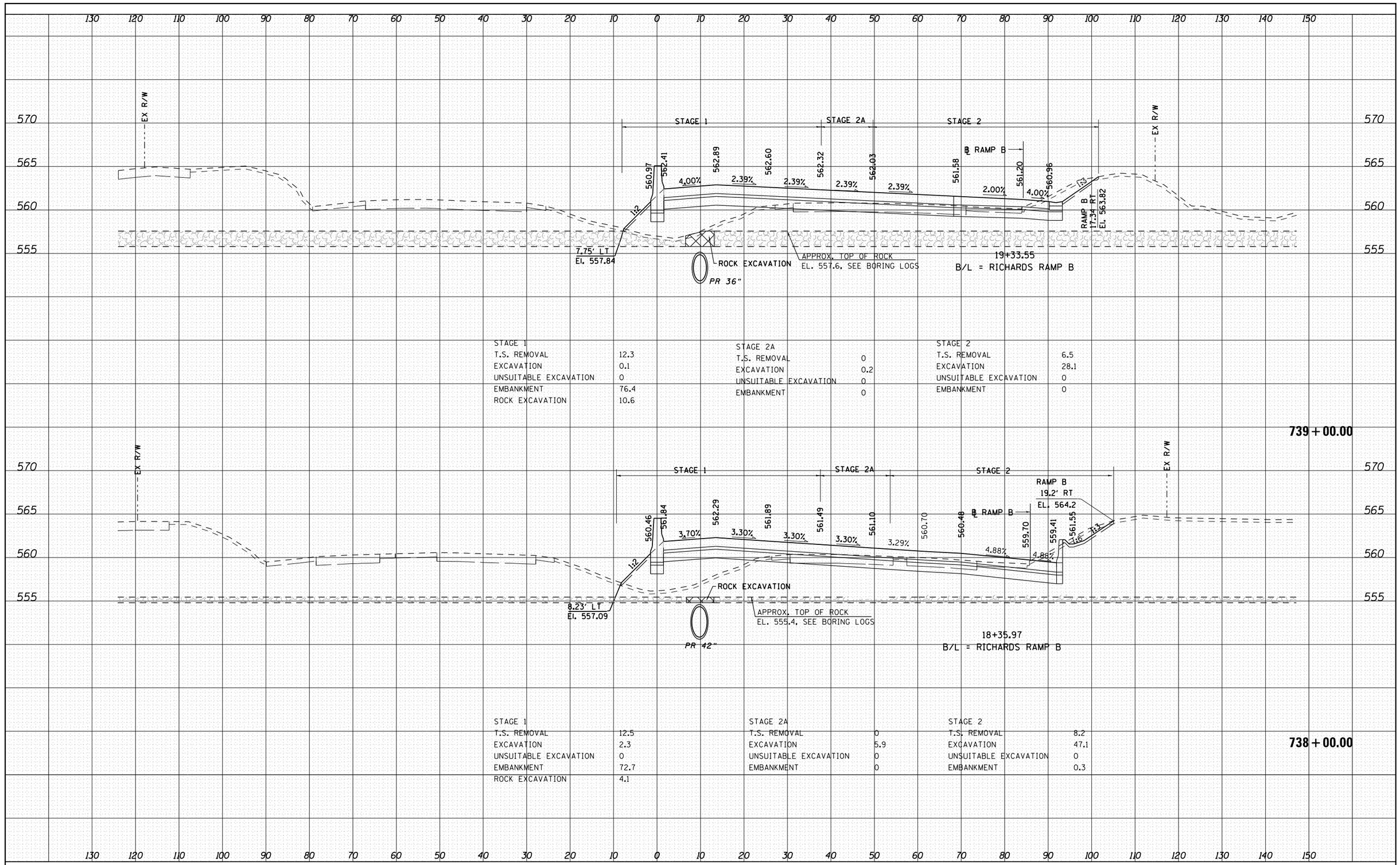
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 736+00.00 TO STA. 737+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	486
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		



STAGE 1	
T.S. REMOVAL	12.3
EXCAVATION	0.1
UNSUITABLE EXCAVATION	0
EMBANKMENT	76.4
ROCK EXCAVATION	10.6

STAGE 2A	
T.S. REMOVAL	0
EXCAVATION	0.2
UNSUITABLE EXCAVATION	0
EMBANKMENT	0

STAGE 2	
T.S. REMOVAL	6.5
EXCAVATION	28.1
UNSUITABLE EXCAVATION	0
EMBANKMENT	0

STAGE 1	
T.S. REMOVAL	12.5
EXCAVATION	2.3
UNSUITABLE EXCAVATION	0
EMBANKMENT	72.7
ROCK EXCAVATION	4.1

STAGE 2A	
T.S. REMOVAL	0
EXCAVATION	5.9
UNSUITABLE EXCAVATION	0
EMBANKMENT	0

STAGE 2	
T.S. REMOVAL	8.2
EXCAVATION	47.1
UNSUITABLE EXCAVATION	0
EMBANKMENT	0.3

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

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

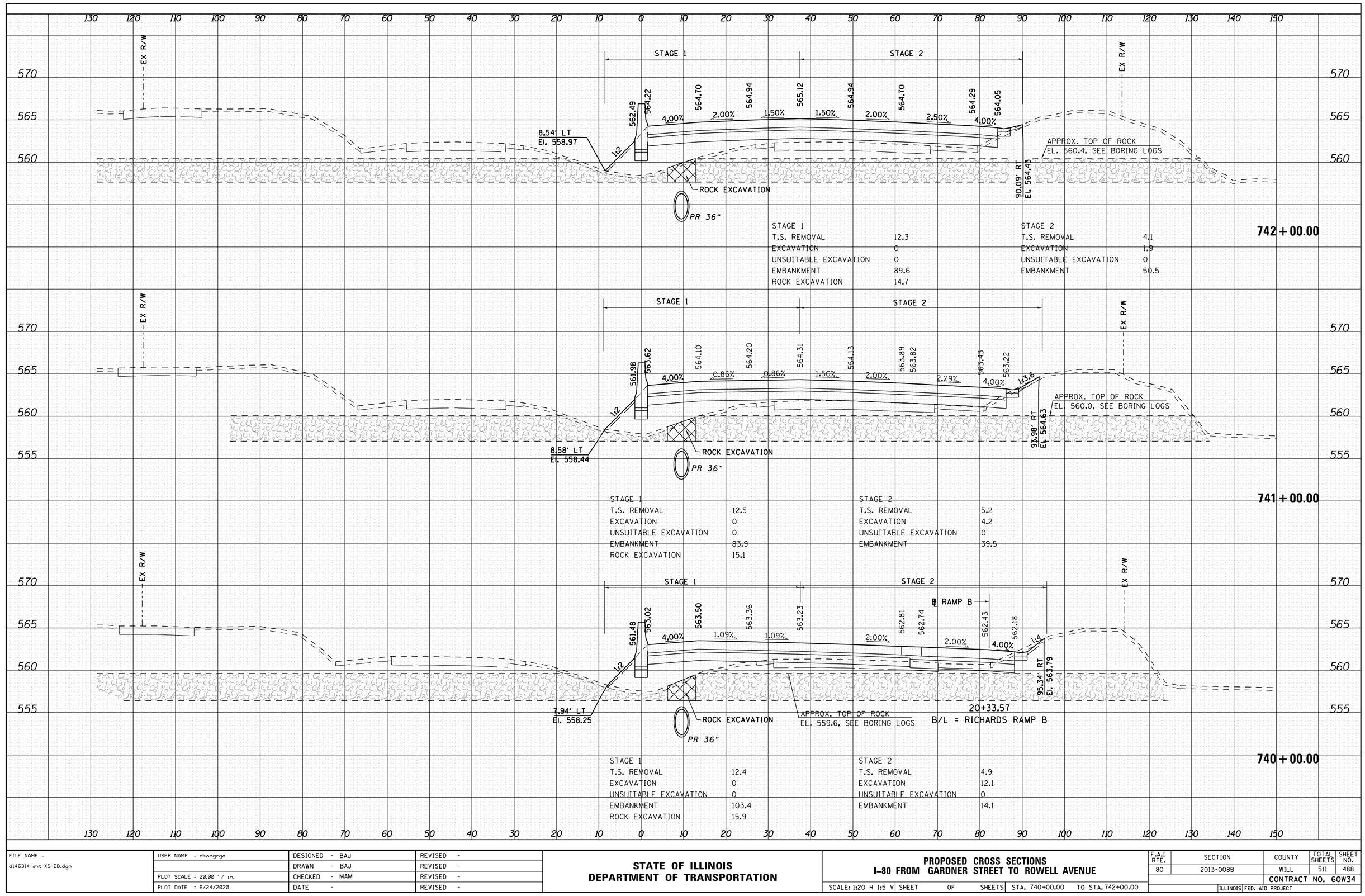
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 738+00.00 TO STA. 739+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	487
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



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

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

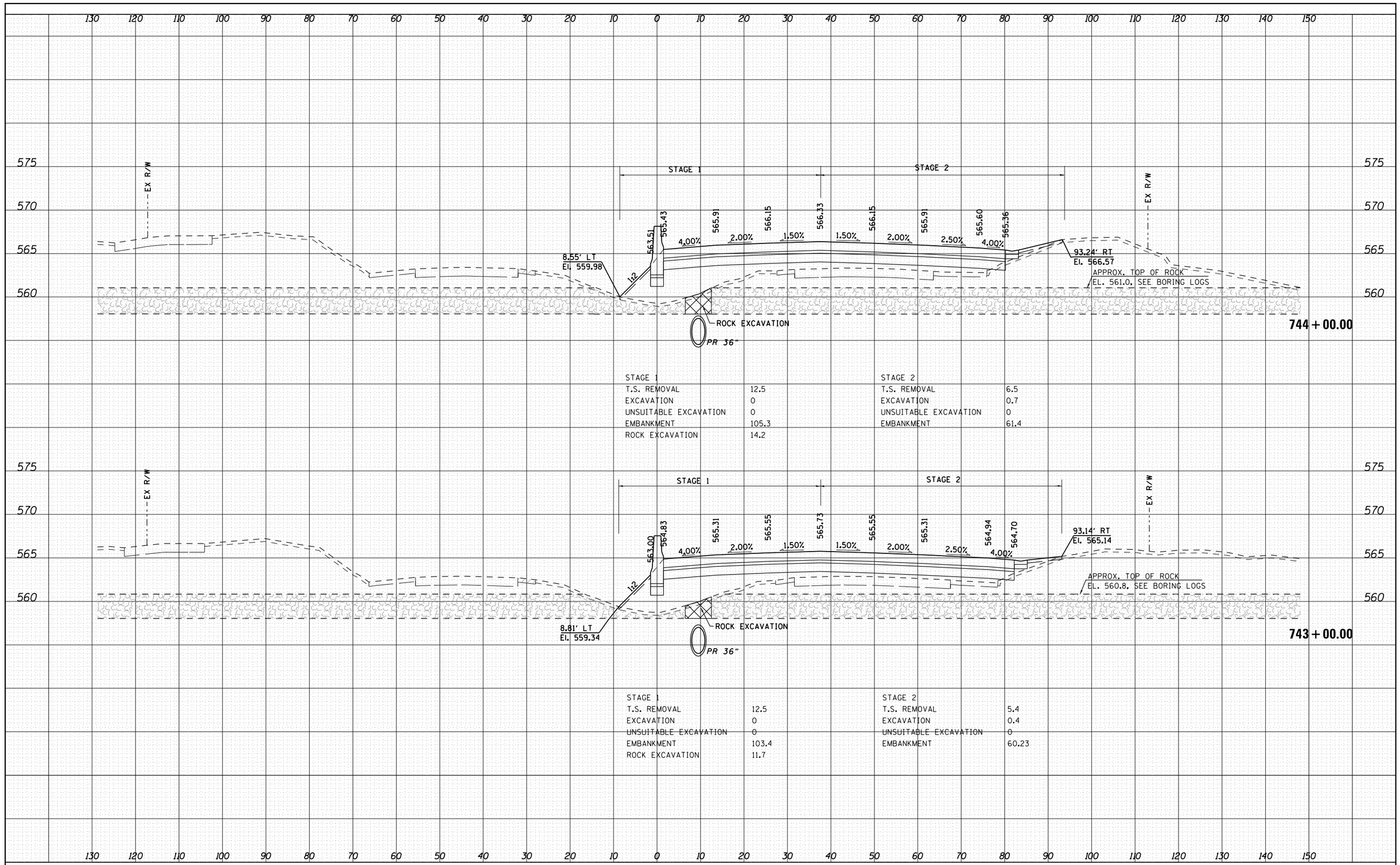
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 740+00.00 TO STA. 742+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	488
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



STAGE 1		STAGE 2	
T.S. REMOVAL	12.5	T.S. REMOVAL	6.5
EXCAVATION	0	EXCAVATION	0.7
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	105.3	EMBANKMENT	61.4
ROCK EXCAVATION	14.2		

STAGE 1		STAGE 2	
T.S. REMOVAL	12.5	T.S. REMOVAL	5.4
EXCAVATION	0	EXCAVATION	0.4
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	103.4	EMBANKMENT	60.23
ROCK EXCAVATION	11.7		

FINAL SURVEY / ORIGINAL SURVEY

NO.	AREAS CHECKED	TEMPLATE	PLOTTED	SURVEYED	NOTE BOOK	BY	DATE

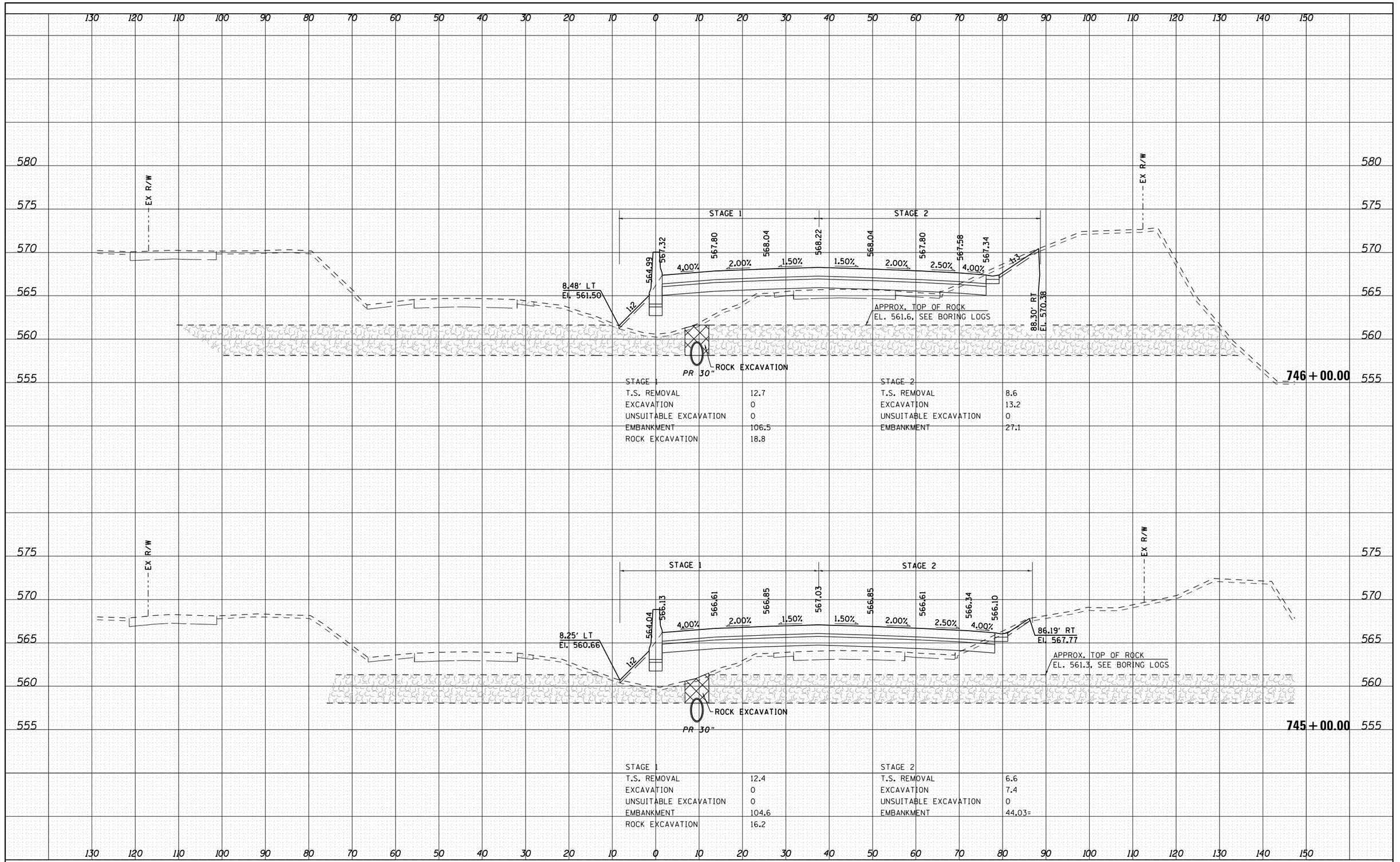
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 743+00.00 TO STA. 744+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	489
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



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

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

FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

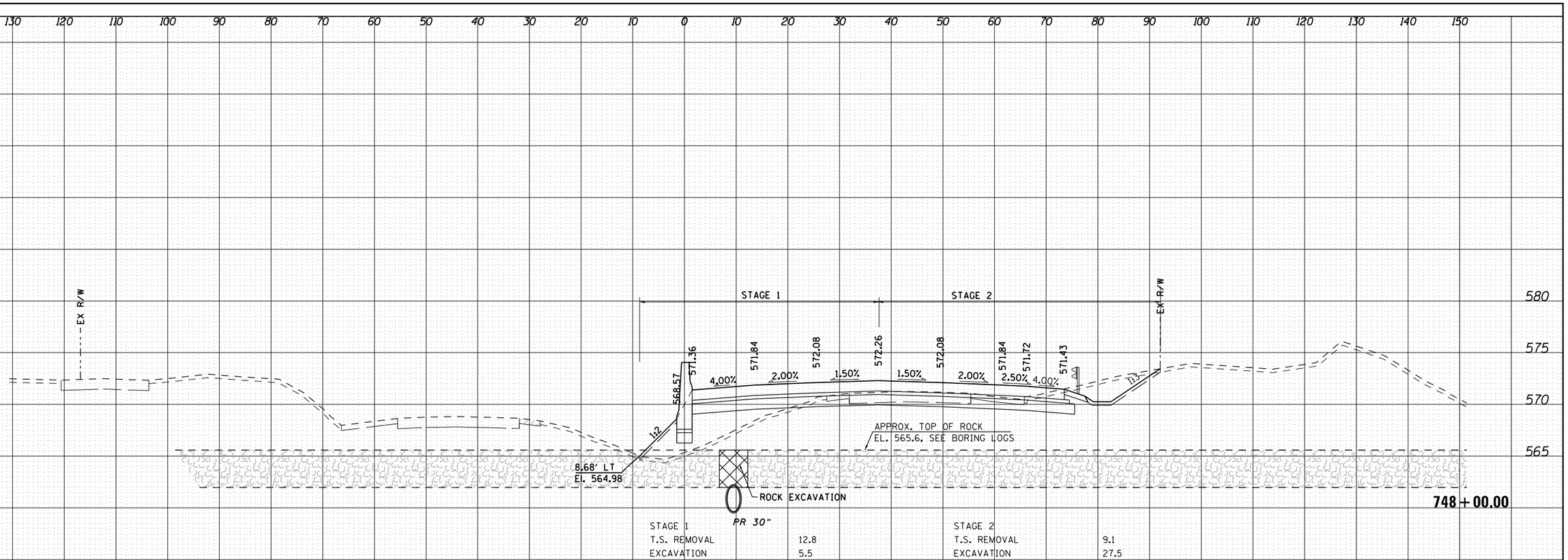
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 745+00.00 TO STA. 746+00.00

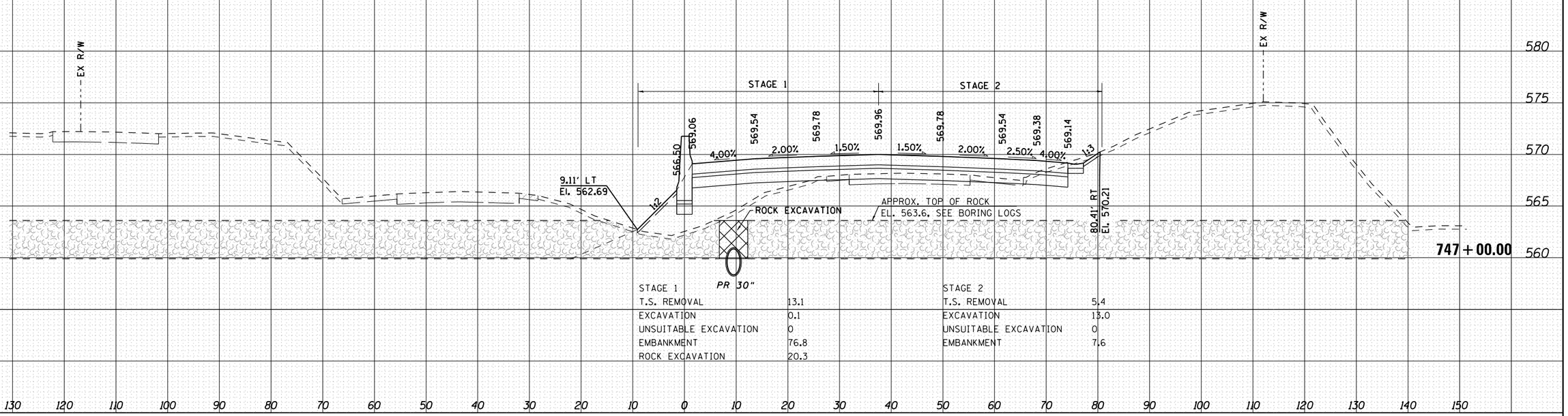
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	490
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		

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



STAGE 1		STAGE 2	
T.S. REMOVAL	12.8	T.S. REMOVAL	9.1
EXCAVATION	5.5	EXCAVATION	27.5
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	56.8	EMBANKMENT	0
ROCK EXCAVATION	19.9		

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



STAGE 1		STAGE 2	
T.S. REMOVAL	13.1	T.S. REMOVAL	5.4
EXCAVATION	0.1	EXCAVATION	13.0
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	76.8	EMBANKMENT	7.6
ROCK EXCAVATION	20.3		

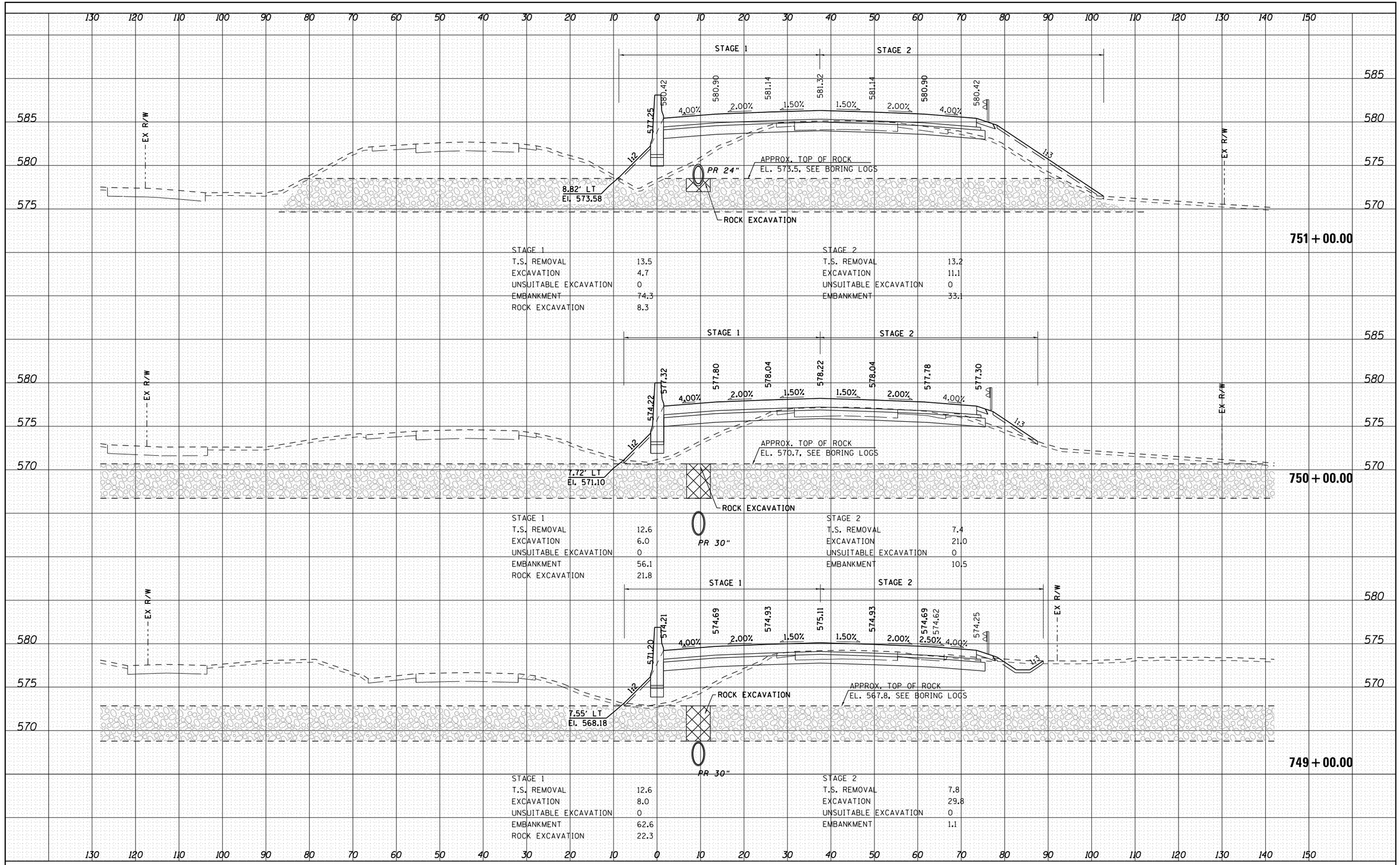
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 747+00.00 TO STA. 748+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	491
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY — ORIGINAL SURVEY

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

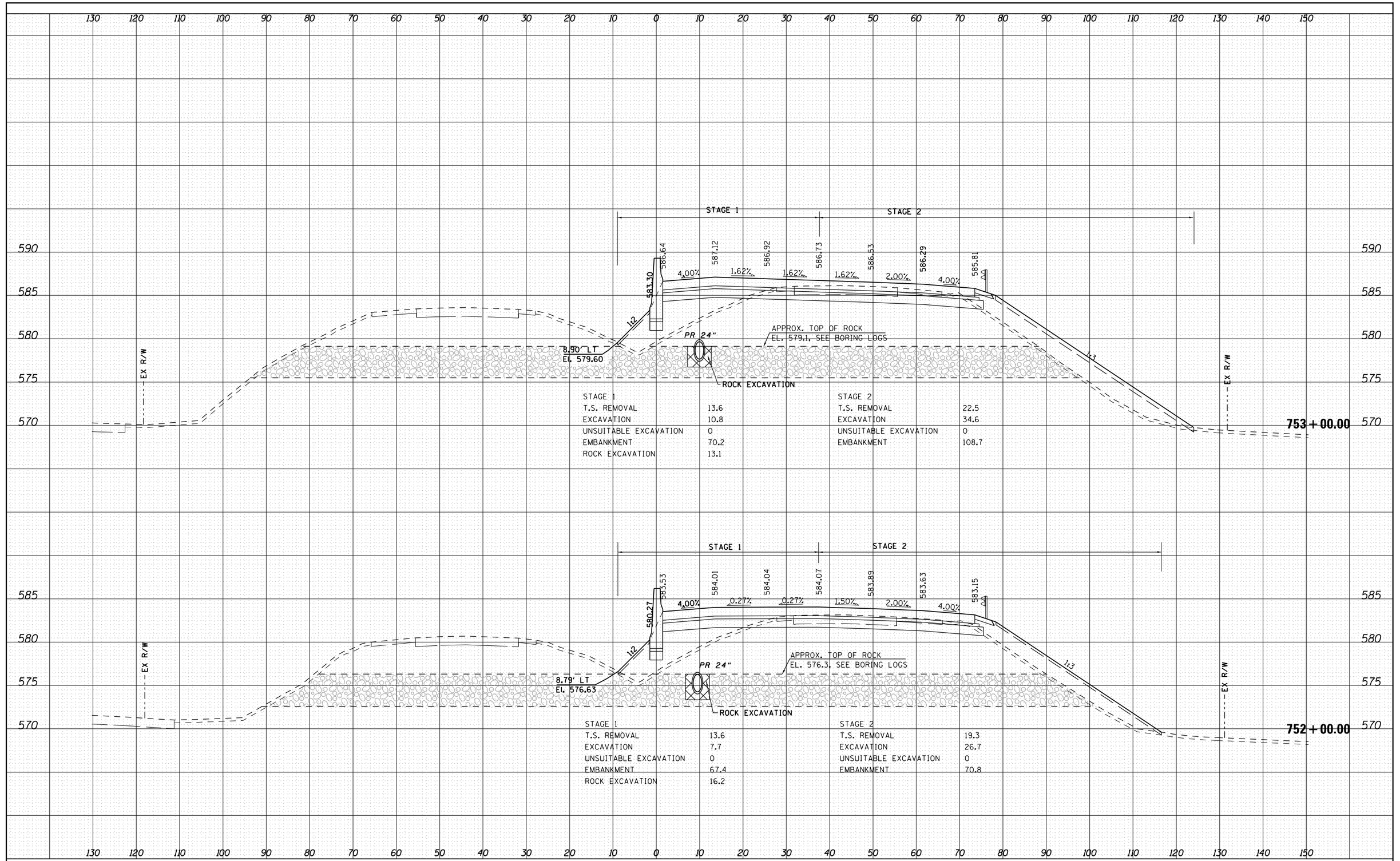
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I–80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 749+00.00 TO STA. 751+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	492
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		



FINAL SURVEY — NOTE BOOK — NO.

DATE	BY	SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED

ORIGINAL SURVEY — NOTE BOOK — NO.

DATE	BY	SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED

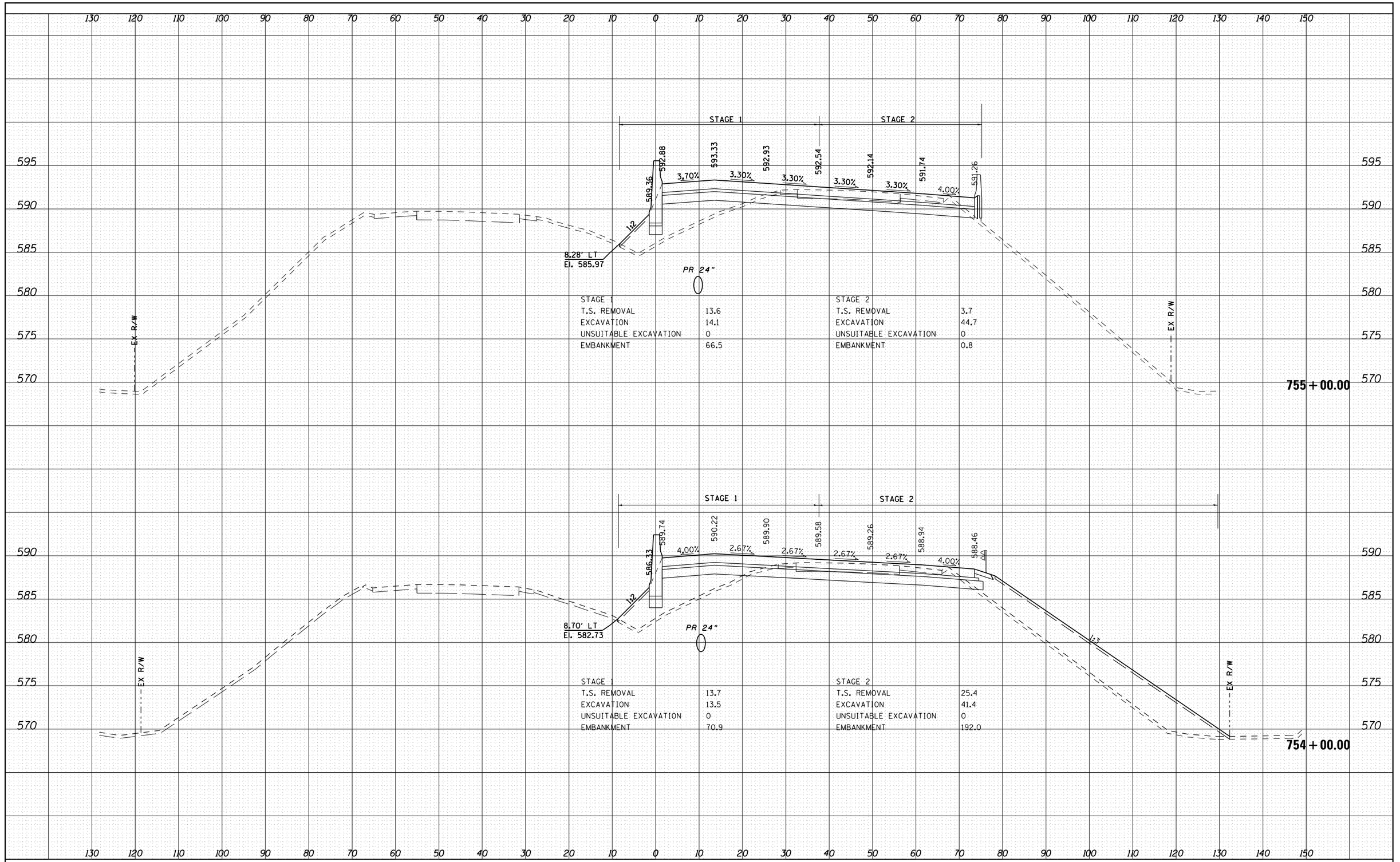
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkengrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I–80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 752+00.00 TO STA. 753+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	493
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		



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

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

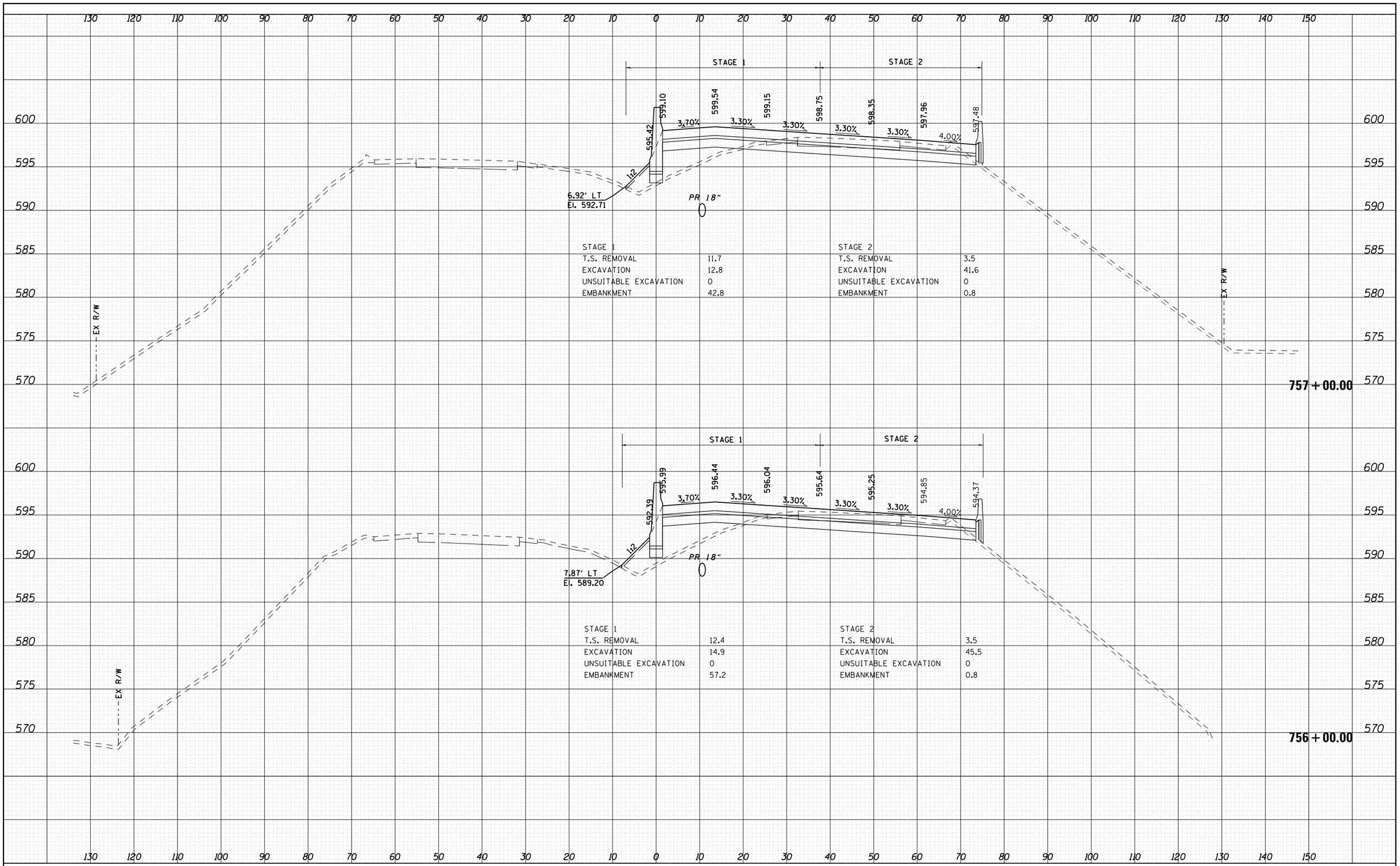
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 754+00.00 TO STA. 755+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	494
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



STAGE 1		STAGE 2	
T.S. REMOVAL	11.7	T.S. REMOVAL	3.5
EXCAVATION	12.8	EXCAVATION	41.6
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	42.8	EMBANKMENT	0.8

STAGE 1		STAGE 2	
T.S. REMOVAL	12.4	T.S. REMOVAL	3.5
EXCAVATION	14.9	EXCAVATION	45.5
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	57.2	EMBANKMENT	0.8

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

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

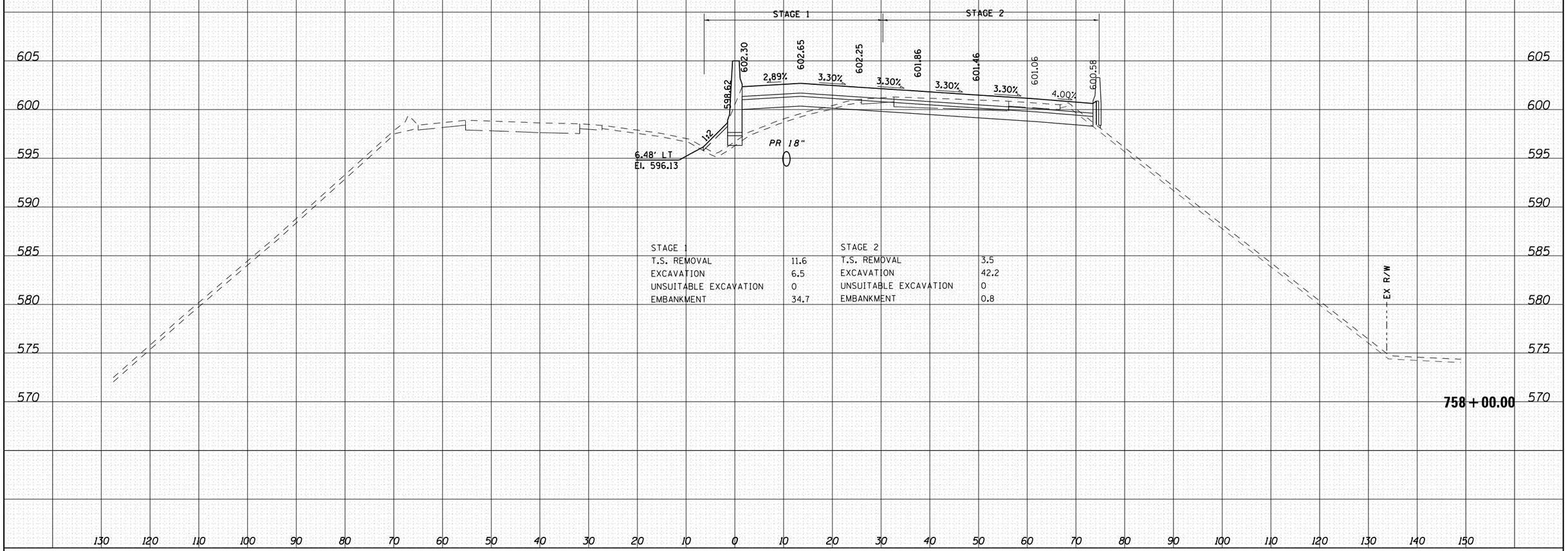
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 756+00.00 TO STA. 757+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	495
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



STAGE 1		STAGE 2	
T.S. REMOVAL	11.6	T.S. REMOVAL	3.5
EXCAVATION	6.5	EXCAVATION	42.2
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	34.7	EMBANKMENT	0.8

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

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

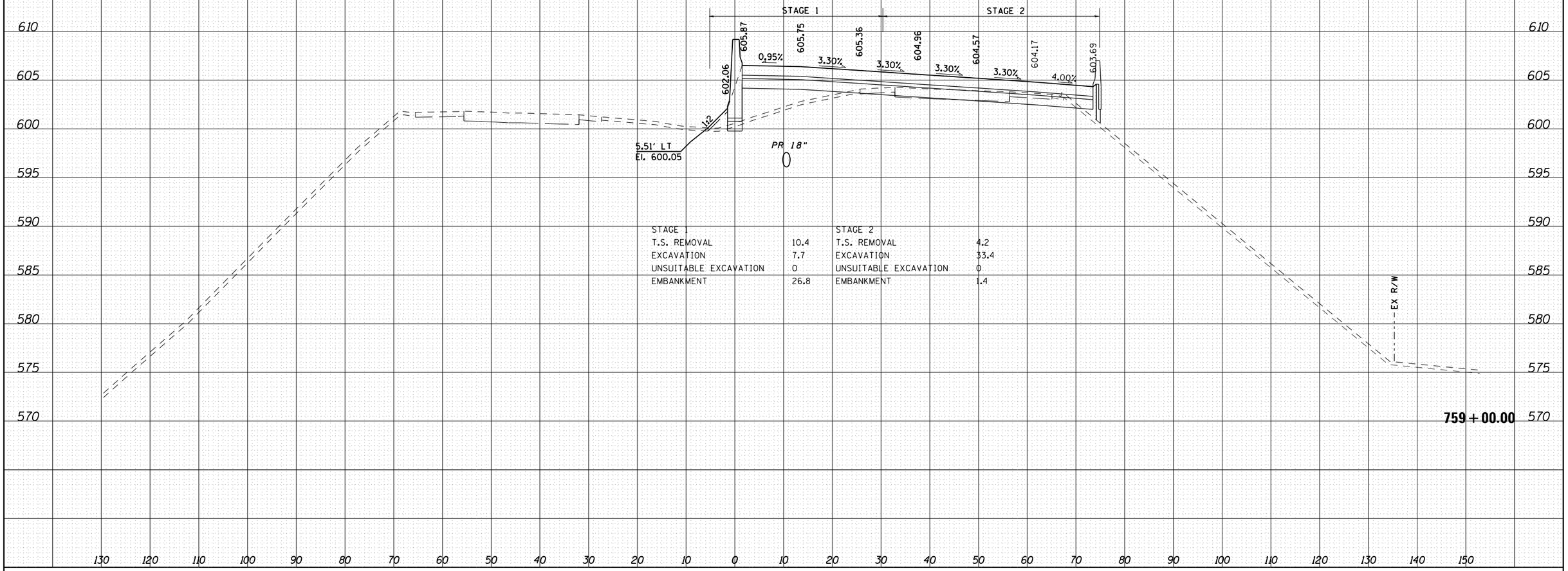
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I–80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 758+00.00 TO STA. 758+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	496
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



STAGE 1		STAGE 2	
T.S. REMOVAL	10.4	T.S. REMOVAL	4.2
EXCAVATION	7.7	EXCAVATION	33.4
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	26.8	EMBANKMENT	1.4

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

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

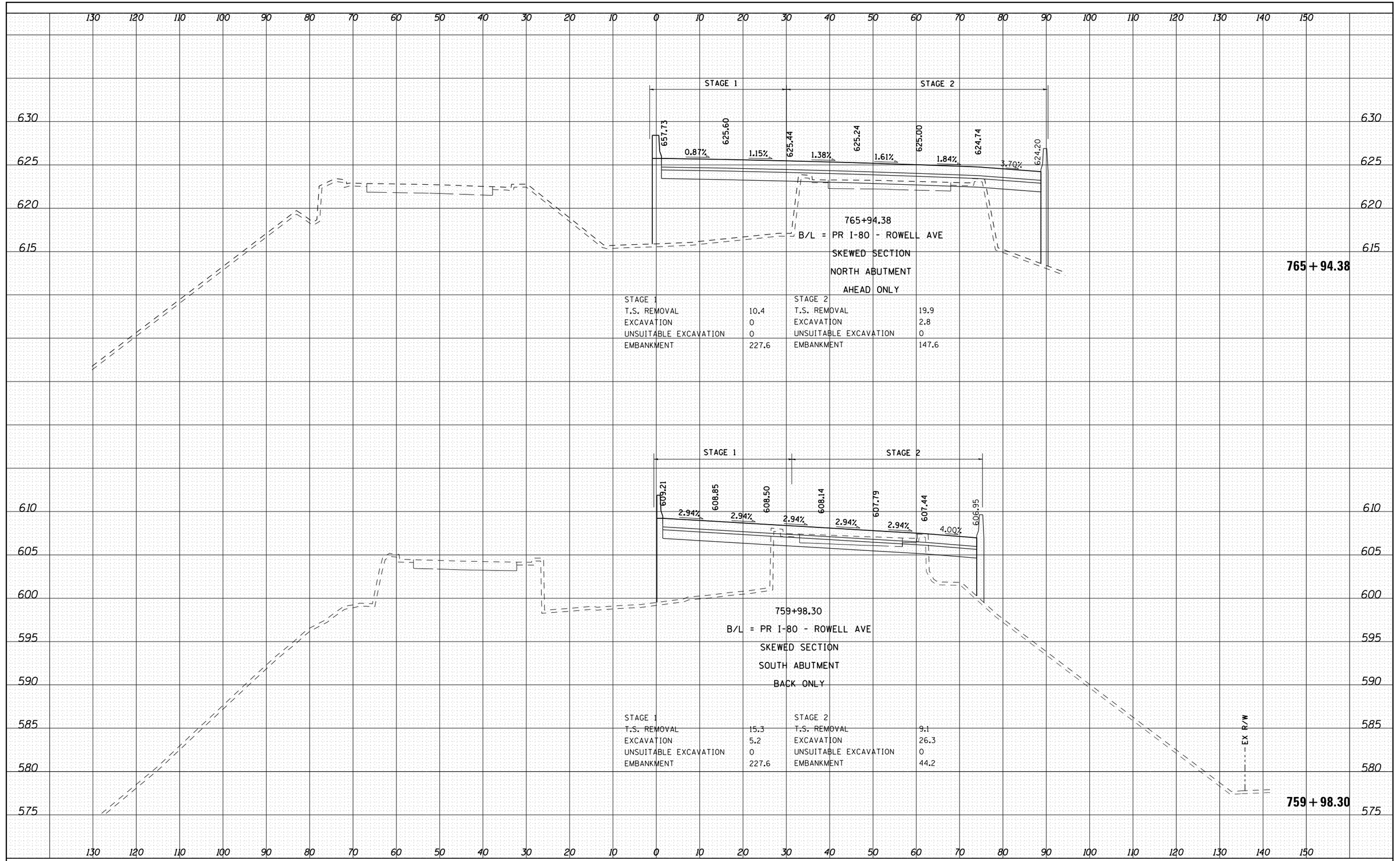
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 759+00.00 TO STA. 759+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	497
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



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

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

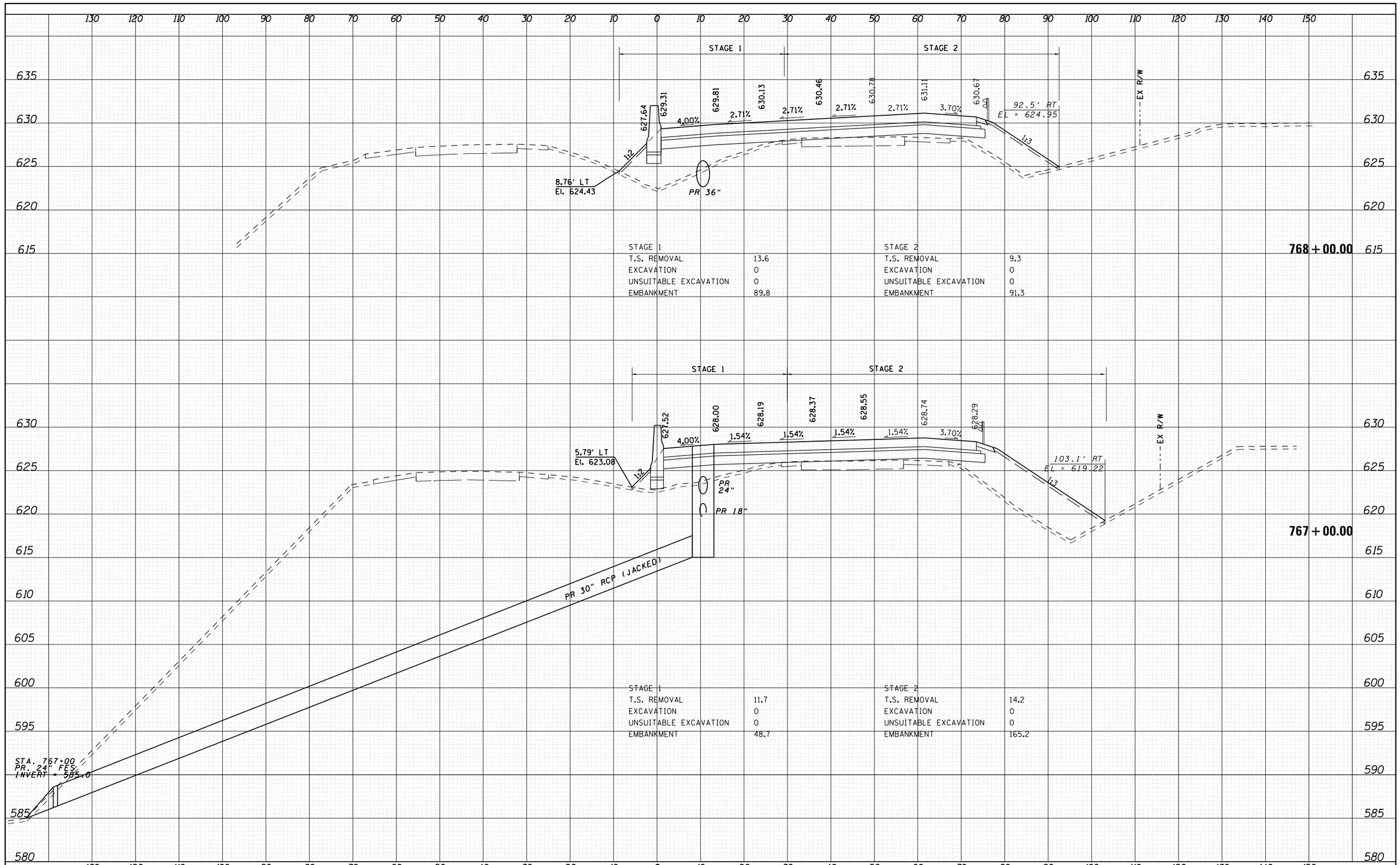
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 759+98.30 TO STA. 765+94.38

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	498
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



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

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

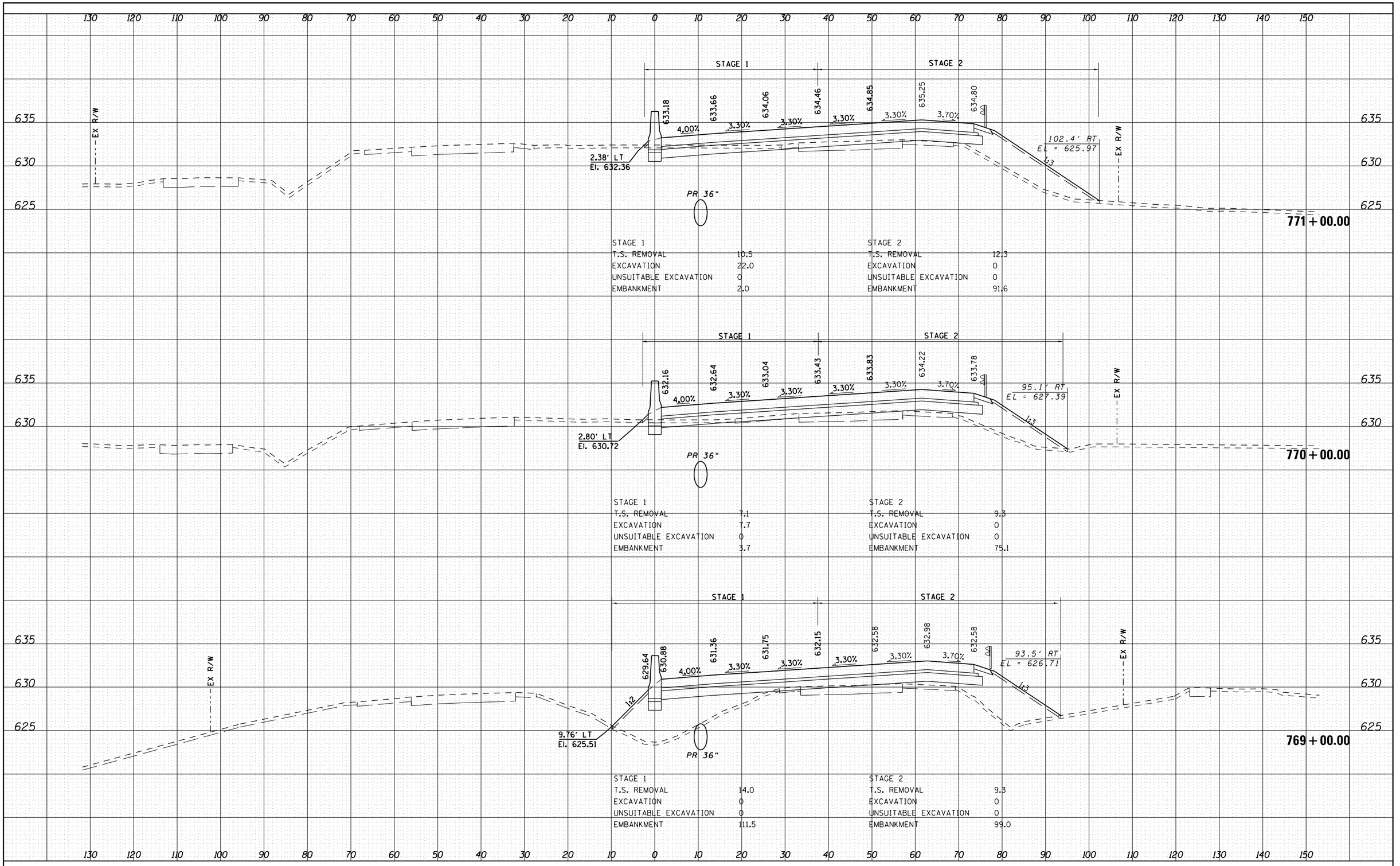
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I–80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 767+00.00 TO STA. 768+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	499
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY

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

ORIGINAL SURVEY

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

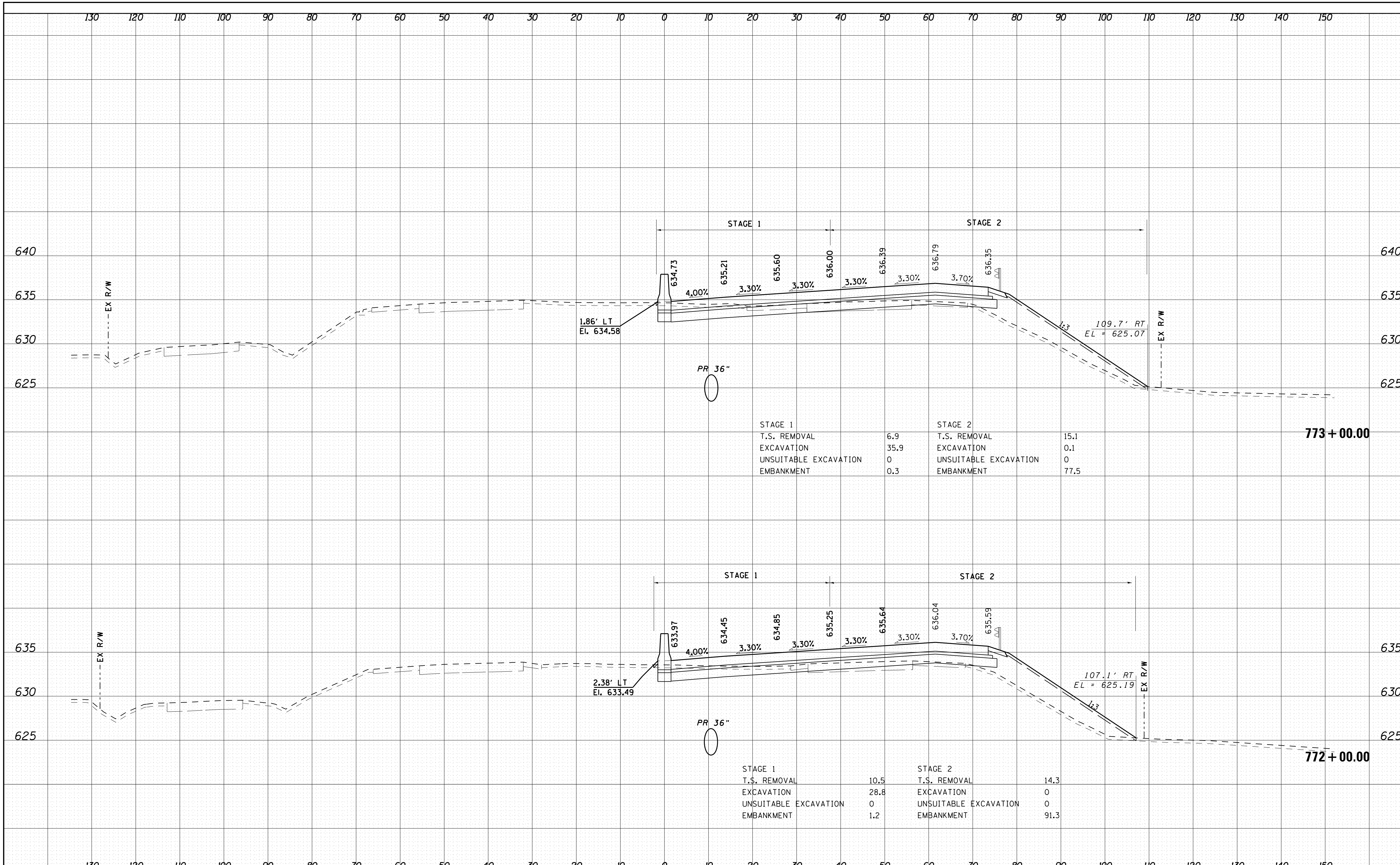
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/25/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I–80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 769+00.00 TO STA. 771+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	500
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			



Sta. 773+00.00

STAGE 1		STAGE 2	
T.S. REMOVAL	6.9	T.S. REMOVAL	15.1
EXCAVATION	35.9	EXCAVATION	0.1
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	0.3	EMBANKMENT	77.5

Sta. 772+00.00

STAGE 1		STAGE 2	
T.S. REMOVAL	10.5	T.S. REMOVAL	14.3
EXCAVATION	28.8	EXCAVATION	0
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	1.2	EMBANKMENT	91.3

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

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

FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
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	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/25/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

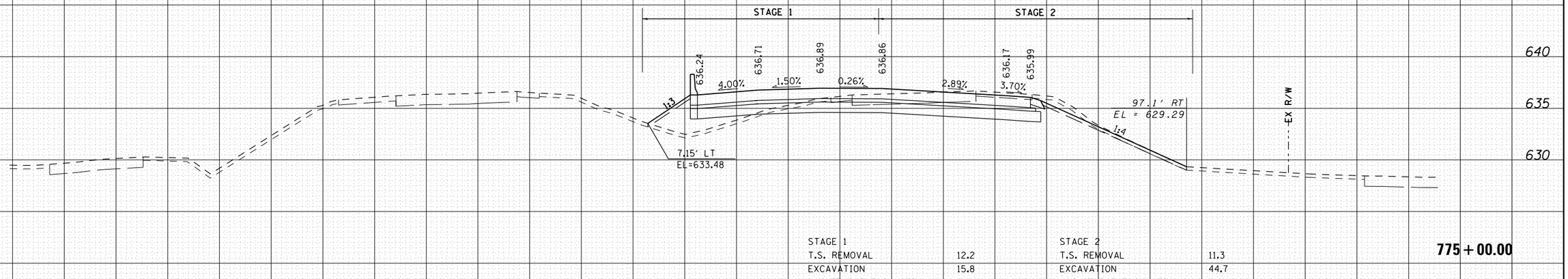
SCALE: 1:20 H 1:5 V SHEET OF SHEETS STA. 772+00.00 TO STA. 773+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	501

CONTRACT NO. 60W34

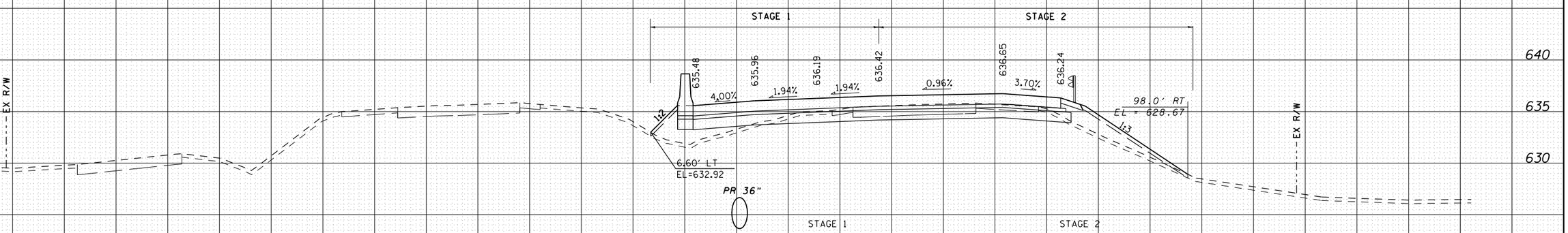
ILLINOIS FED. AID PROJECT

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



STAGE 1		STAGE 2	
T.S. REMOVAL	12.2	T.S. REMOVAL	11.3
EXCAVATION	15.8	EXCAVATION	44.7
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	29.8	EMBANKMENT	2.4

775 + 00.00



STAGE 1		STAGE 2	
T.S. REMOVAL	12.2	T.S. REMOVAL	10.9
EXCAVATION	11.4	EXCAVATION	19.0
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	25.8	EMBANKMENT	29.1

774 + 00.00

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

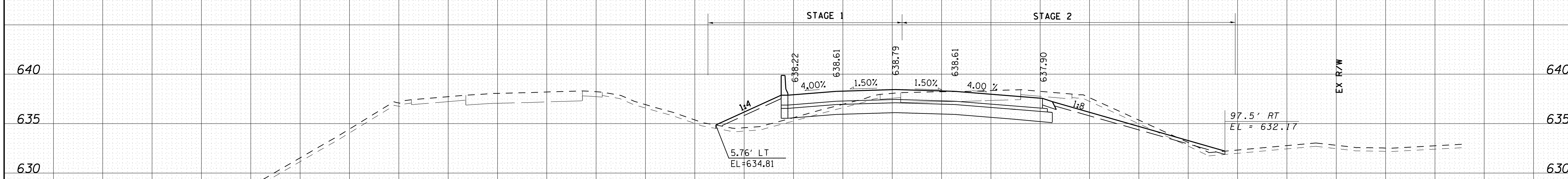
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/25/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

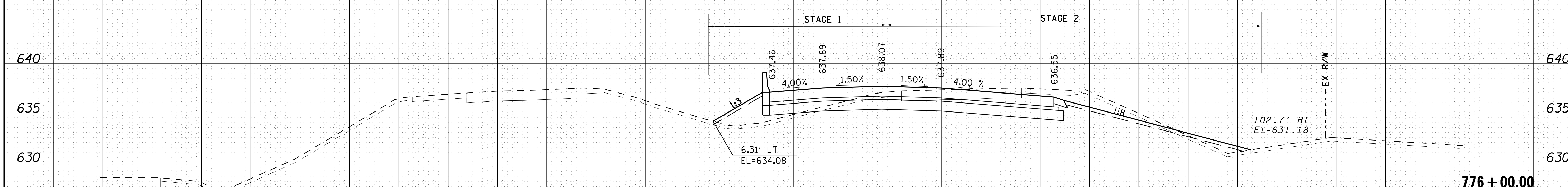
PROPOSED CROSS SECTIONS
I–80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 774+00.00 TO STA. 775+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	502
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		



STAGE 1		STAGE 2	
T.S. REMOVAL	11.4	T.S. REMOVAL	11.2
EXCAVATION	17.0	EXCAVATION	49.2
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	23.1	EMBANKMENT	3.0



STAGE 1		STAGE 2	
T.S. REMOVAL	11.6	T.S. REMOVAL	13.3
EXCAVATION	9.8	EXCAVATION	56.0
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	23.8	EMBANKMENT	10.14

FILE NAME = d146314-sht-XS-EB.dgn

USER NAME = dkangrga
PLOT SCALE = 20.00 ' / in.
PLOT DATE = 6/25/2020

DESIGNED - BAJ	REVISED -
DRAWN - BAJ	REVISED -
CHECKED - MAM	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

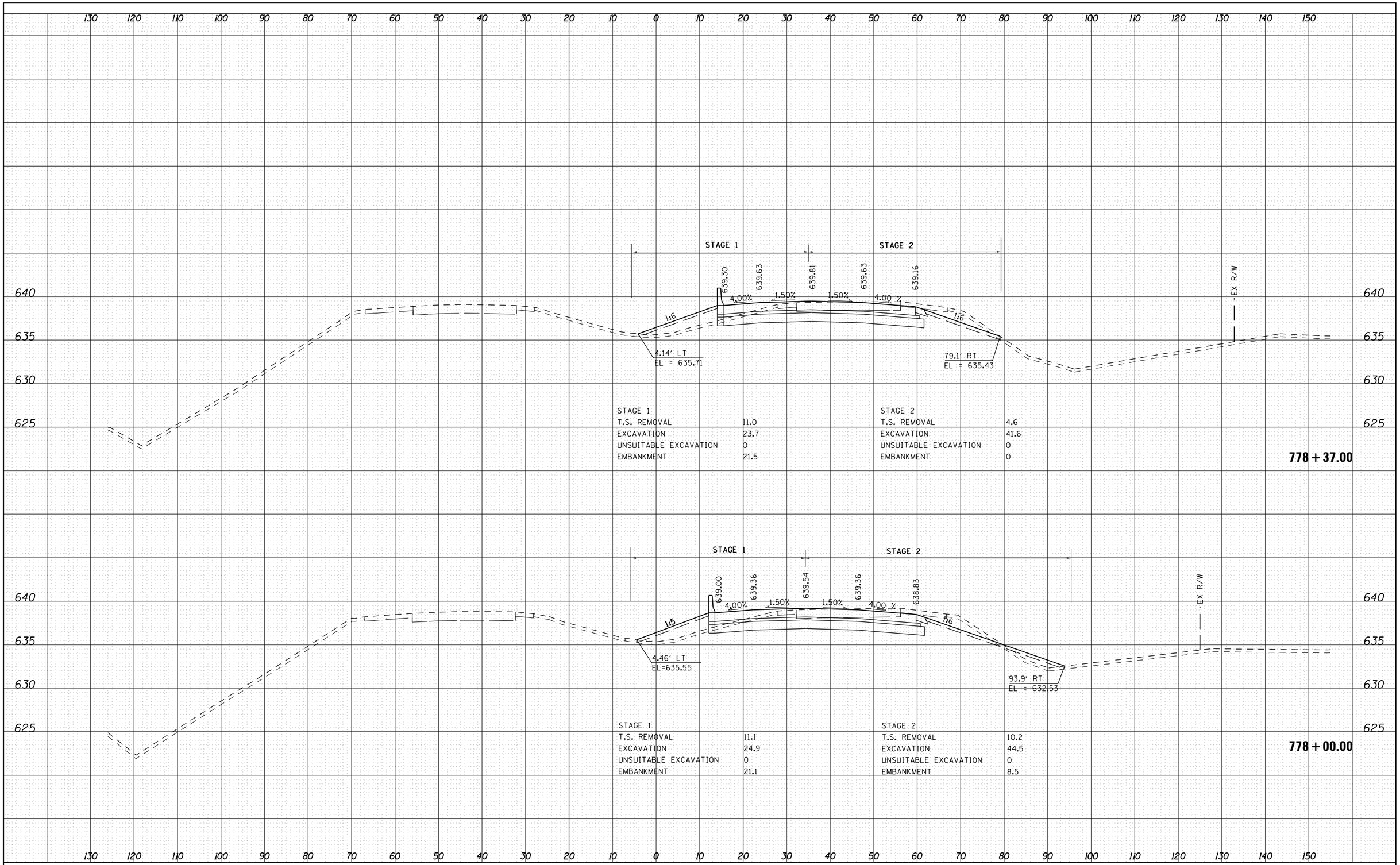
SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 776+00.00 TO STA. 777+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	503

CONTRACT NO. 60W34

ILLINOIS FED. AID PROJECT

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



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

FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
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	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/25/2020	DATE -	REVISED -

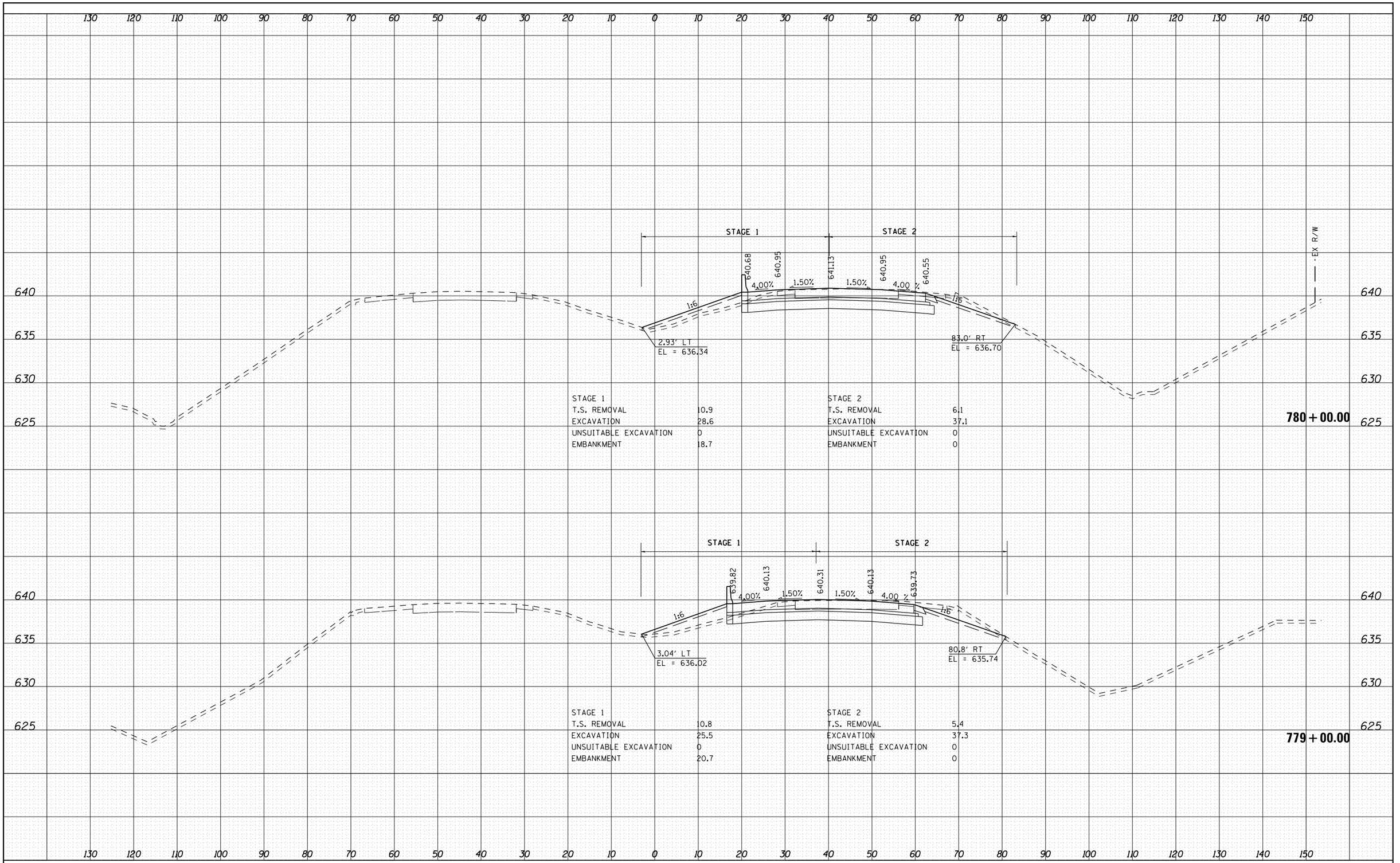
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 778+00.00 TO STA. 778+37.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	504
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		

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



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

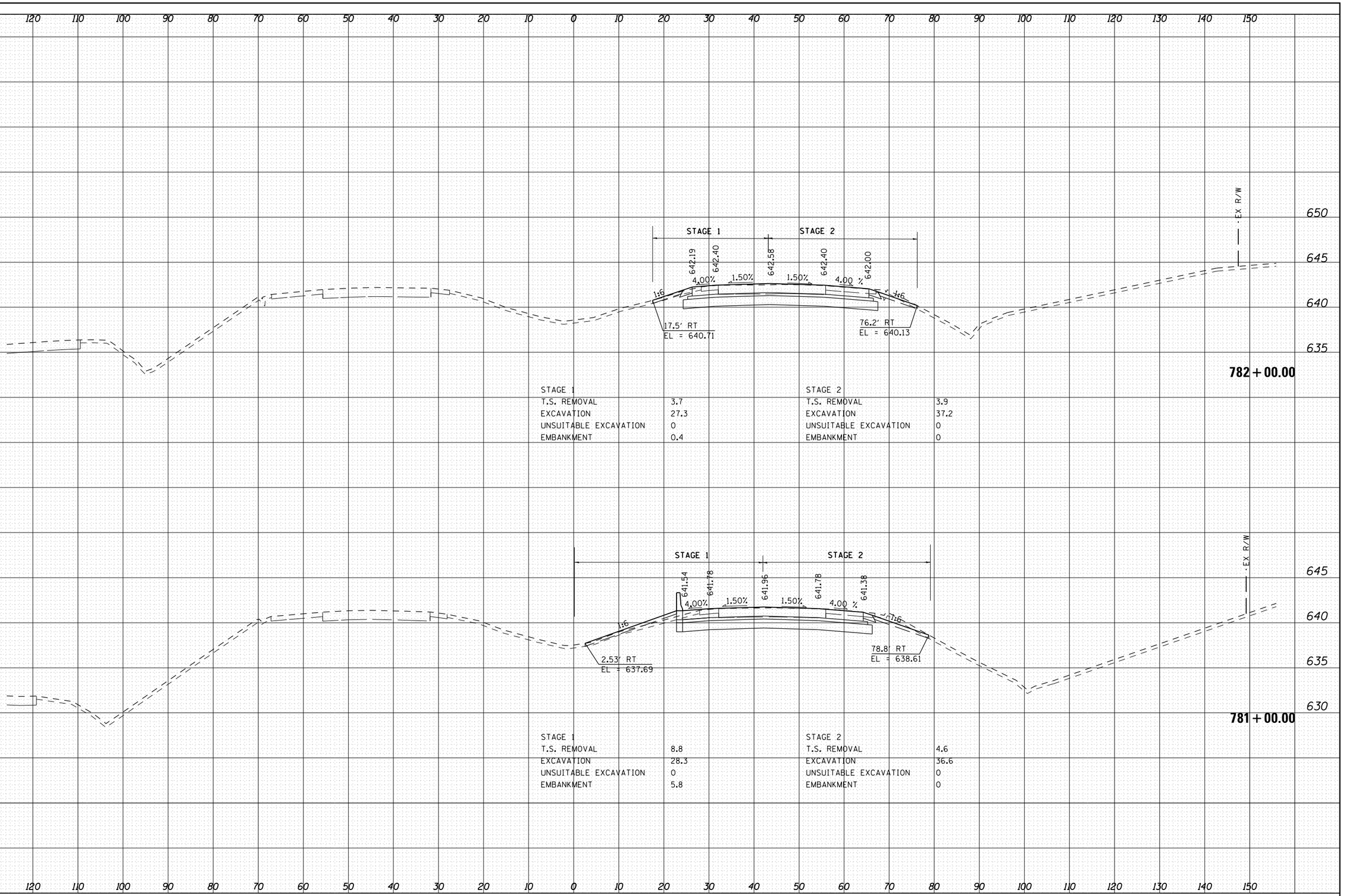
FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/25/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 779+00.00 TO STA. 780+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	505
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		



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

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

FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/25/2020	DATE -	REVISED -

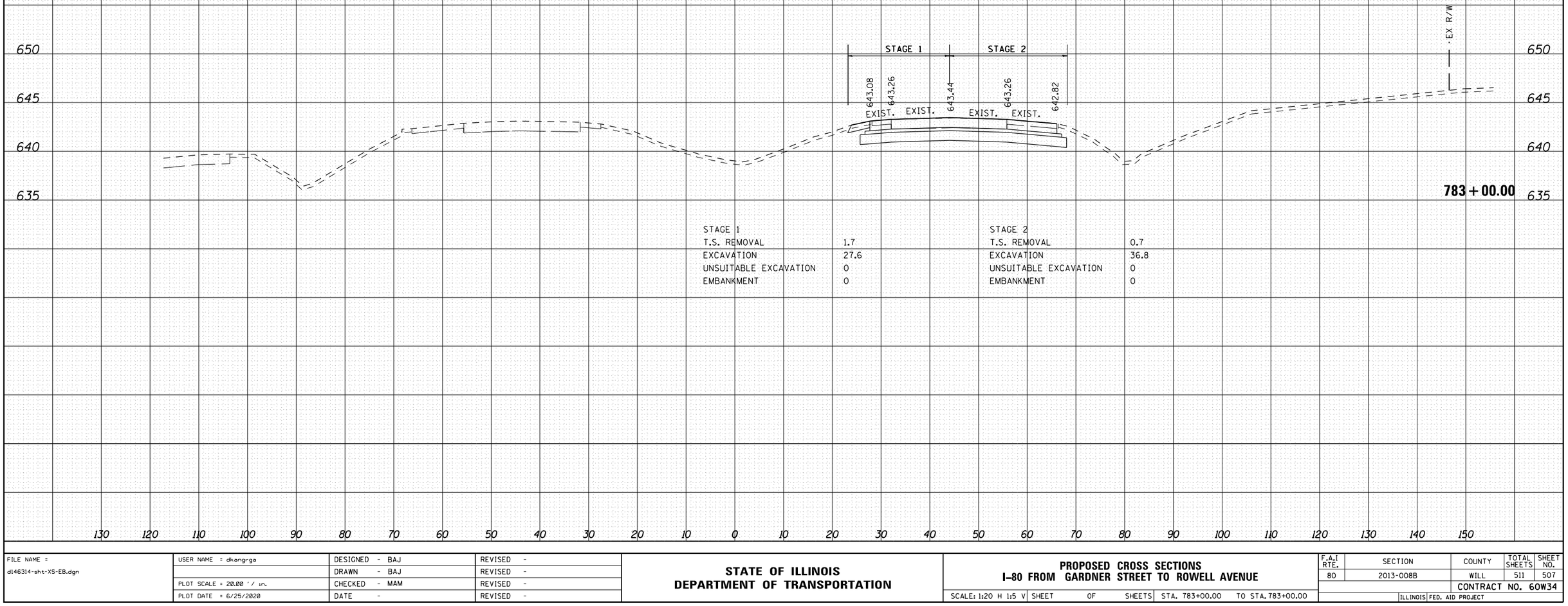
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 781+00.00 TO STA. 782+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	506
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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



STAGE 1		STAGE 2	
T.S. REMOVAL	1.7	T.S. REMOVAL	0.7
EXCAVATION	27.6	EXCAVATION	36.8
UNSUITABLE EXCAVATION	0	UNSUITABLE EXCAVATION	0
EMBANKMENT	0	EMBANKMENT	0

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

FILE NAME = d146314-sht-XS-EB.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
	PLOT SCALE = 20.00 ' / in.	CHECKED - MAM	REVISED -
	PLOT DATE = 6/25/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

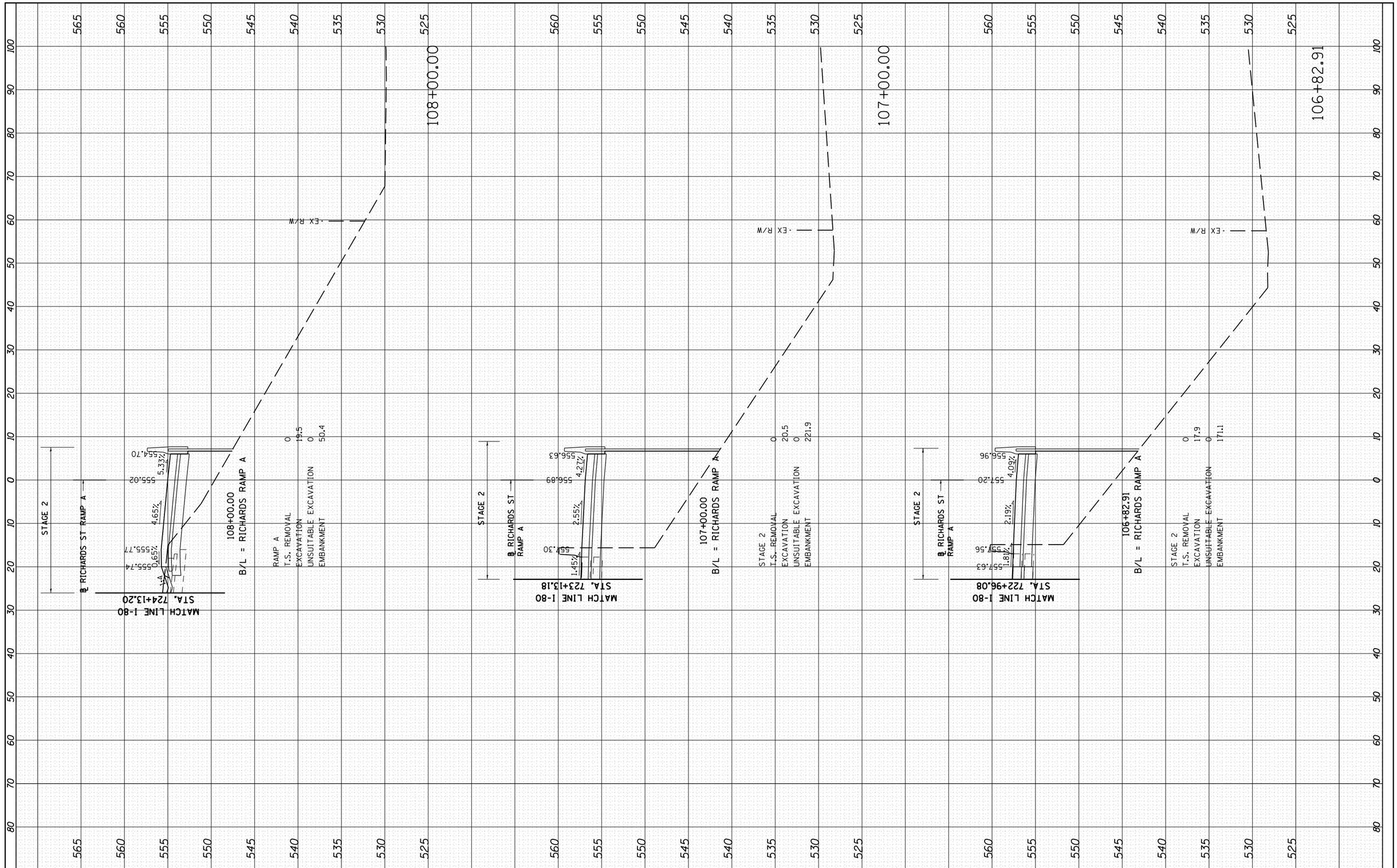
PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 1:20 H 1:5 V | SHEET OF SHEETS | STA. 783+00.00 TO STA. 783+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	507
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		

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

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



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		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

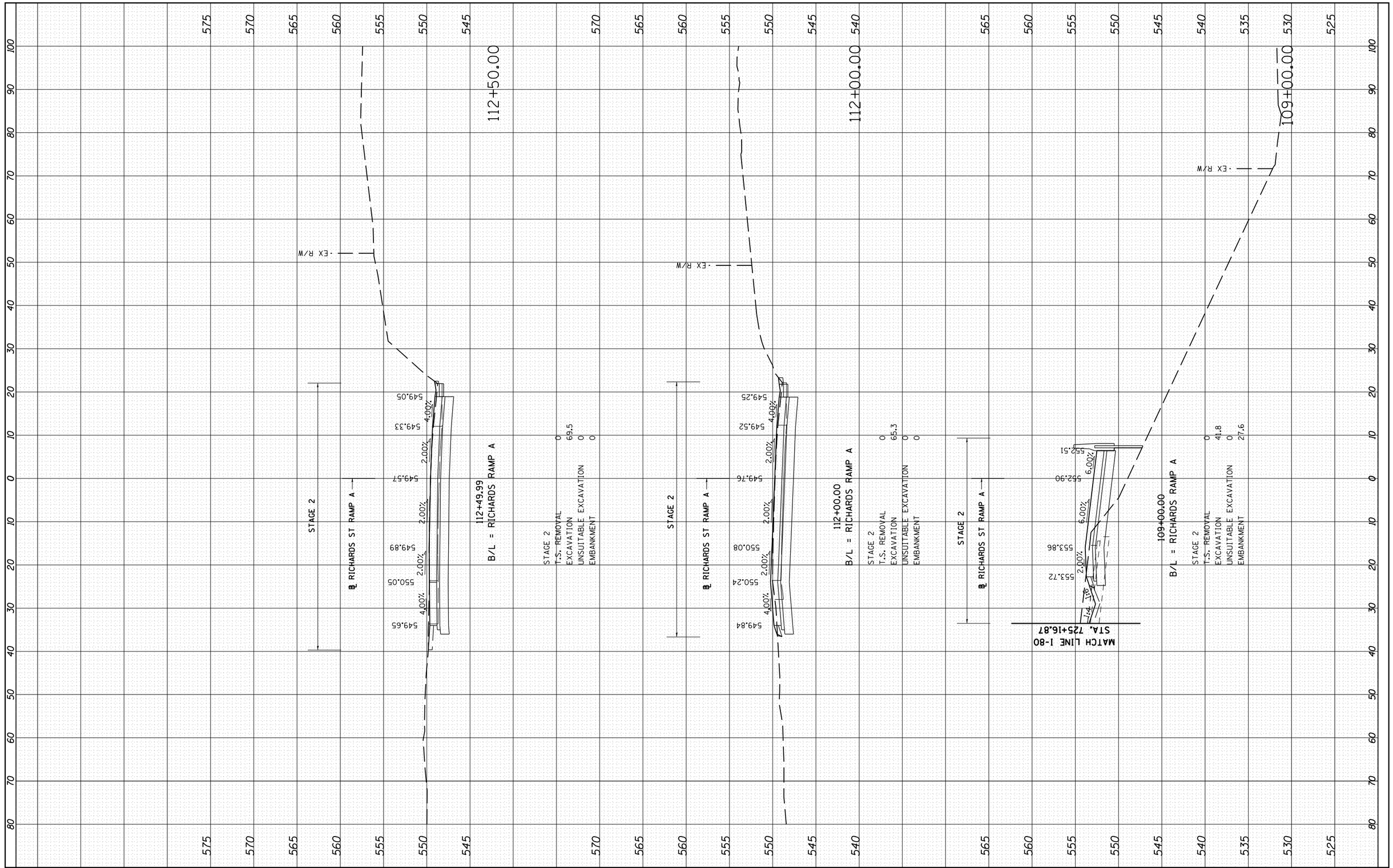
PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: | SHEET OF SHEETS | STA. 106+82.91 | TO STA. 108+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	508
		CONTRACT NO. 60W34		
		ILLINOIS FED. AID PROJECT		

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

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



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	PLOT DATE = 6/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: | SHEET OF SHEETS | STA. 109+00.00 | TO STA. 112+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	509
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			

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

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

FILE NAME = d1463l4-sht-XS-RAMP-B.dgn

USER NAME = dk-mg-se

PLOT SCALE = 20.0000 ' / in.

PLOT DATE = 6/25/2020

DESIGNED	-	BAJ
DRAWN	-	BAJ
CHECKED	-	MAM
DATE	-	10/29/2014

REVISED	-
REVISED	-
REVISED	-
REVISED	-

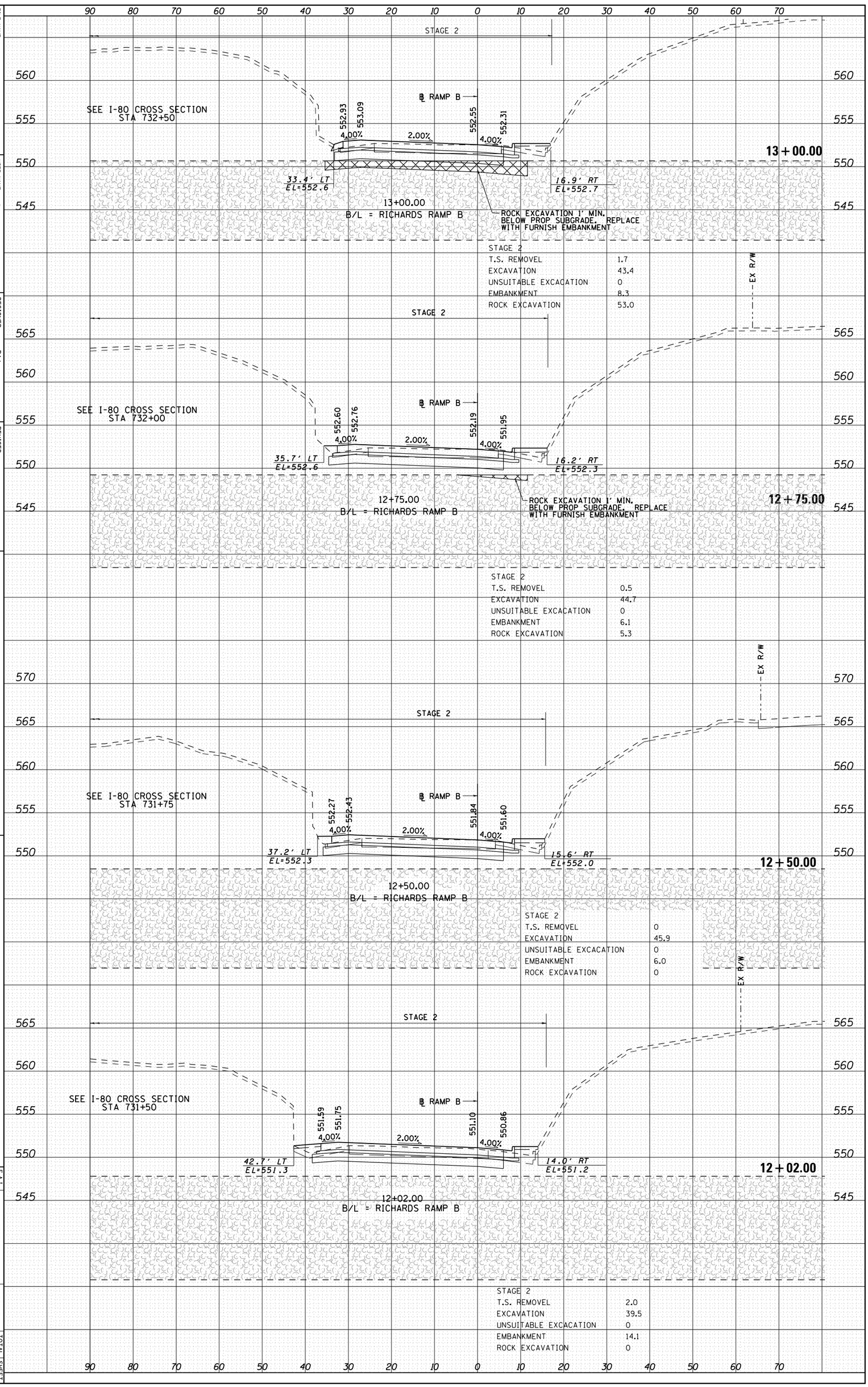
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 10H - 5V | SHEET 1 OF 2 SHEETS | STA. 12+02 TO STA.13+00

F.A.I. RTE. 80 | SECTION 2013-008B | COUNTY WILL | TOTAL SHEETS 511 | SHEET NO. 510

ILLINOIS FED. AID PROJECT | CONTRACT NO. 60W34



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

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

FILE NAME = d146314-sht-XS-RAMP-B.dgn	USER NAME = dkangrga	DESIGNED - BAJ	REVISED -
		DRAWN - BAJ	REVISED -
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	PLOT DATE = 6/25/2020	DATE - 10/29/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
I-80 FROM GARDNER STREET TO ROWELL AVENUE

SCALE: 10H - 5V | SHEET 2 OF 2 SHEETS | STA. 14+00 TO STA.15+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-008B	WILL	511	511
		CONTRACT NO. 60W34		
	ILLINOIS FED. AID PROJECT			