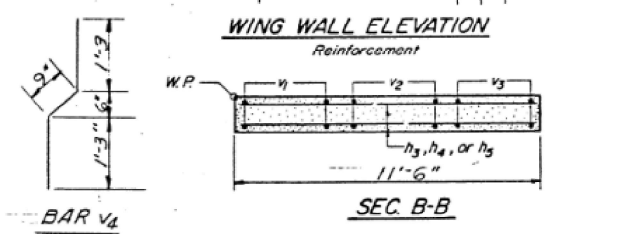
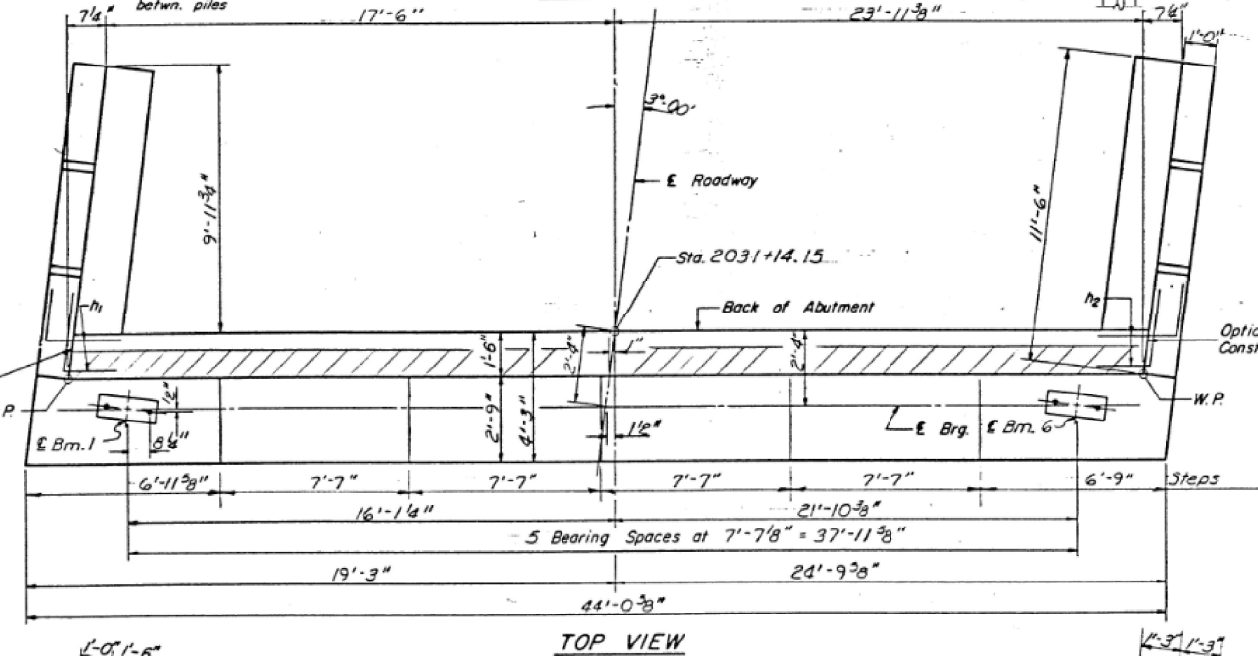
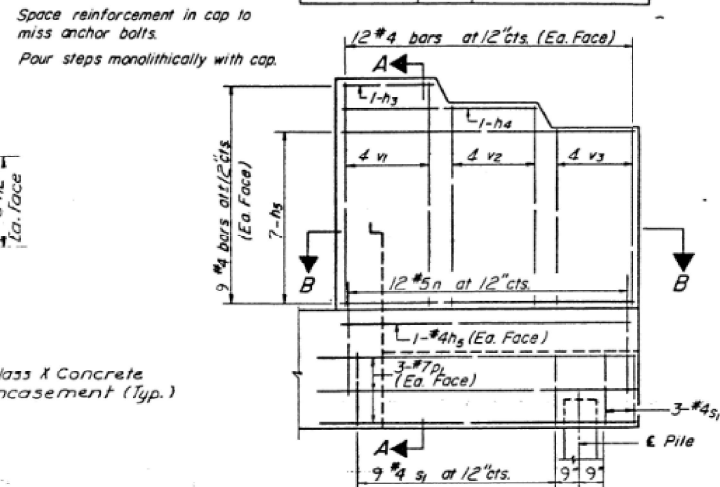
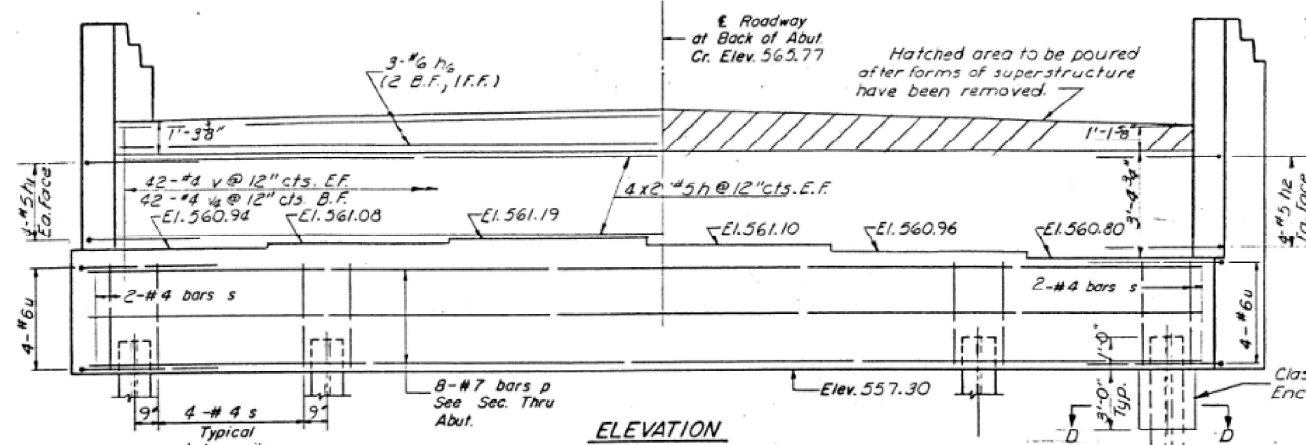
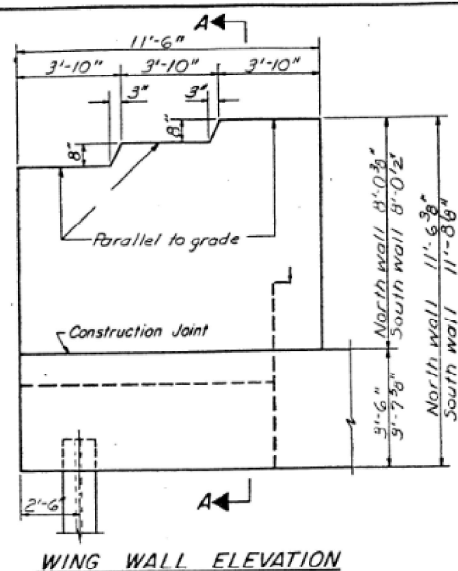


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

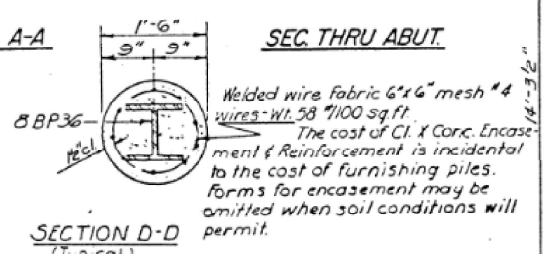
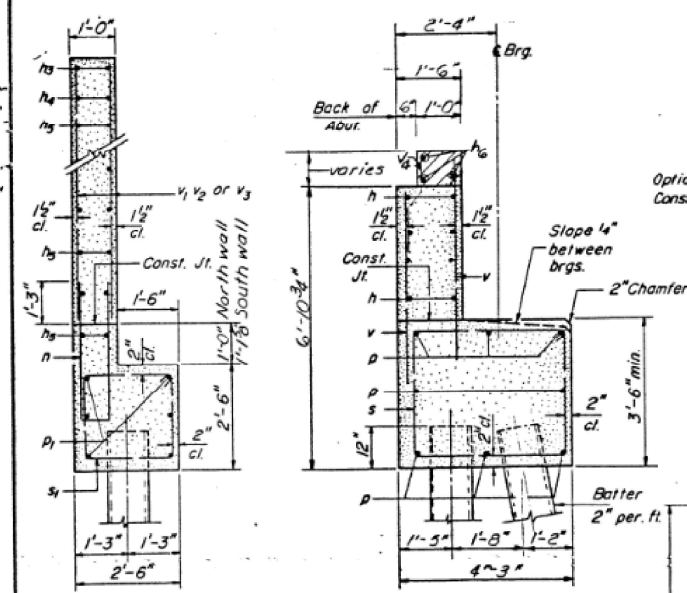
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	41-6HVB-1	JEFFERSON	28	17

20 SHEETS



ONE ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n	16	#5	21'-6"	—
n1	8	#5	5'-0"	L
n2	8	#5	5'-0"	L
h3	4	#4	3'-7"	—
h4	4	#4	7'-5"	—
h5	32	#4	11'-3"	—
h6	3	#6	41'-9"	—
u	8	#6	9'-10"	—
v	8	#4	5'-3"	—
v1	16	#4	7'-9"	—
v2	16	#4	7'-1"	—
v3	16	#4	6'-5"	—
v4	42	#4	3'-3"	—
s	44	#4	14'-11"	□
s1	24	#4	9'-5"	□
p	8	#7	13'-9"	—
h	12	#7	11'-9"	—
h1	24	#5	7'-0"	U
p	8	#7	13'-9"	—
h	12	#7	11'-9"	—
s	44	#4	14'-11"	□
s1	24	#4	9'-5"	□
u	8	#6	9'-10"	—
v	8	#4	5'-3"	—
v1	16	#4	7'-9"	—
v2	16	#4	7'-1"	—
v3	16	#4	6'-5"	—
v4	42	#4	3'-3"	—
Class X Concrete			Cu Yds	11.7
Reinforcement Bars			Lbs	3210
Steel Piles ABP36			Lim Ft	376
Test Piles steel (ABP36)			Ea.	1



PILE DATA

Type Steel ABP36
Capacity Driven to refusal
Est. Length 48'-0"
No. Required 13 including 1 test pile

DESIGNED A.Y. KHAYAT
CHECKED S.G. Ferchow
DRAWN Robinson
CHECKED BR

EXAMINED [Signature] APRIL 10 1969
PASSED
APPROVED

WEST ABUTMENT -
NORTH BRIDGE
FAI RT. 64 - SEC 41-6HVB-1
JEFFERSON COUNTY
STA. 2031+94.04

FILE NAME: H:\P220060 - 164\Microstation\041-0077_0078\0410077_0078-021-Existing_Plans.dgn



USER NAME	DESIGNED	REVISED
A.Y. KHAYAT	-	-
S.G. Ferchow	-	-
Robinson	-	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

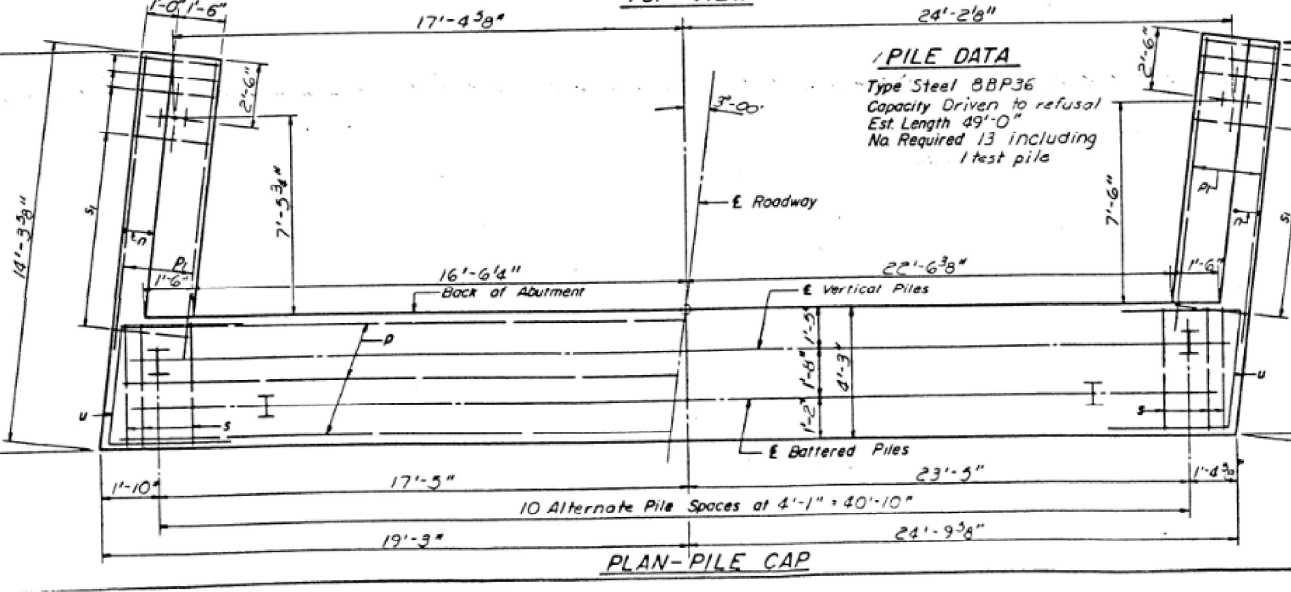
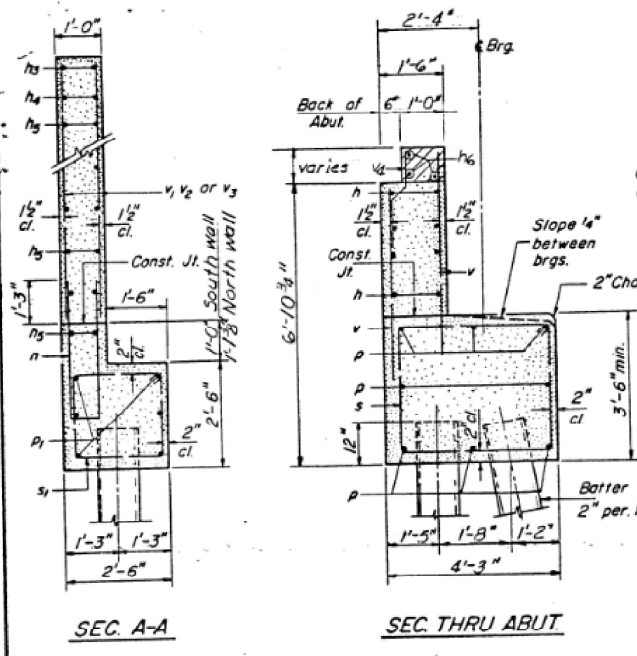
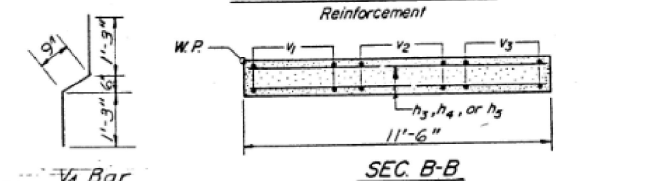
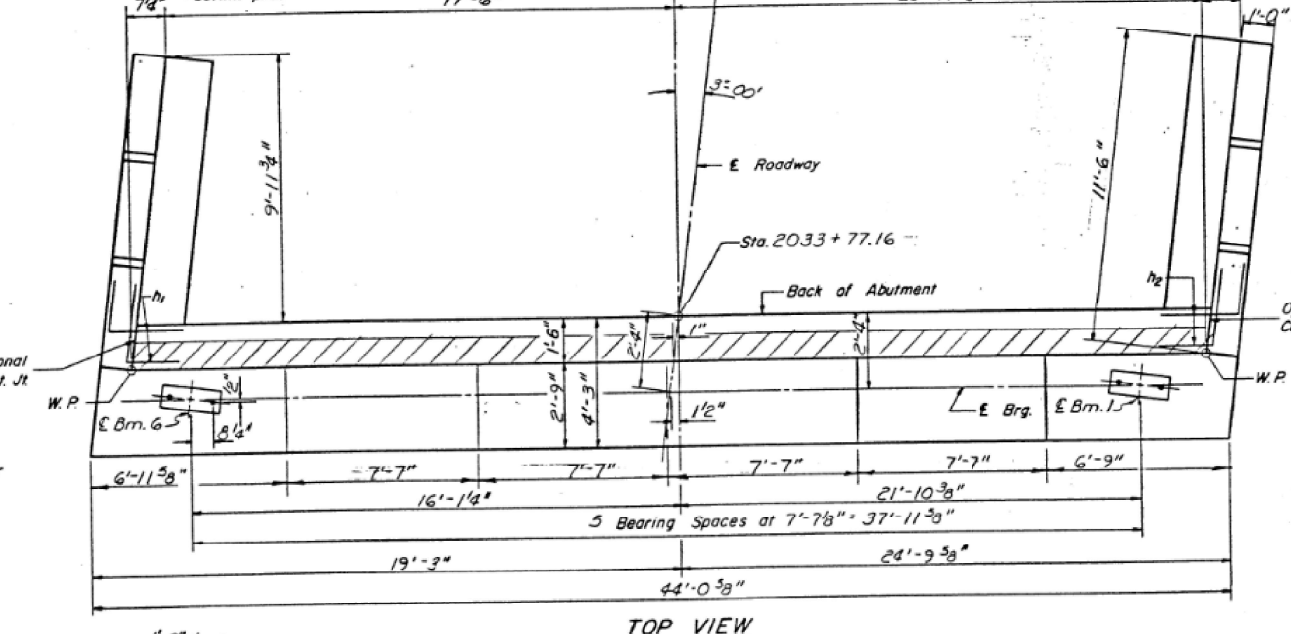
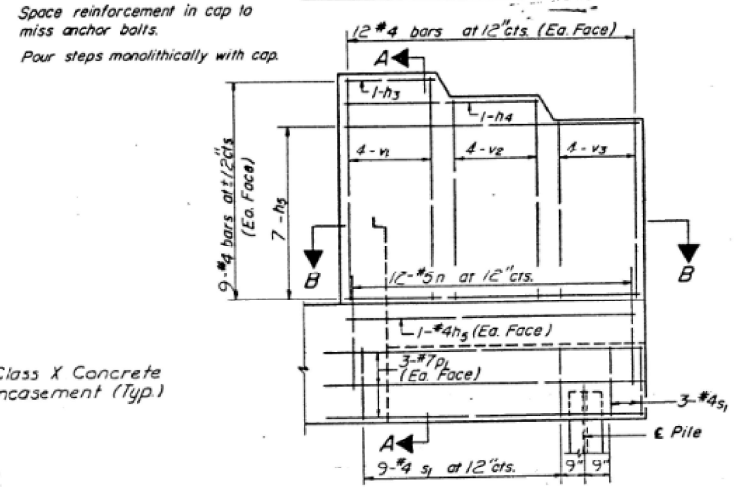
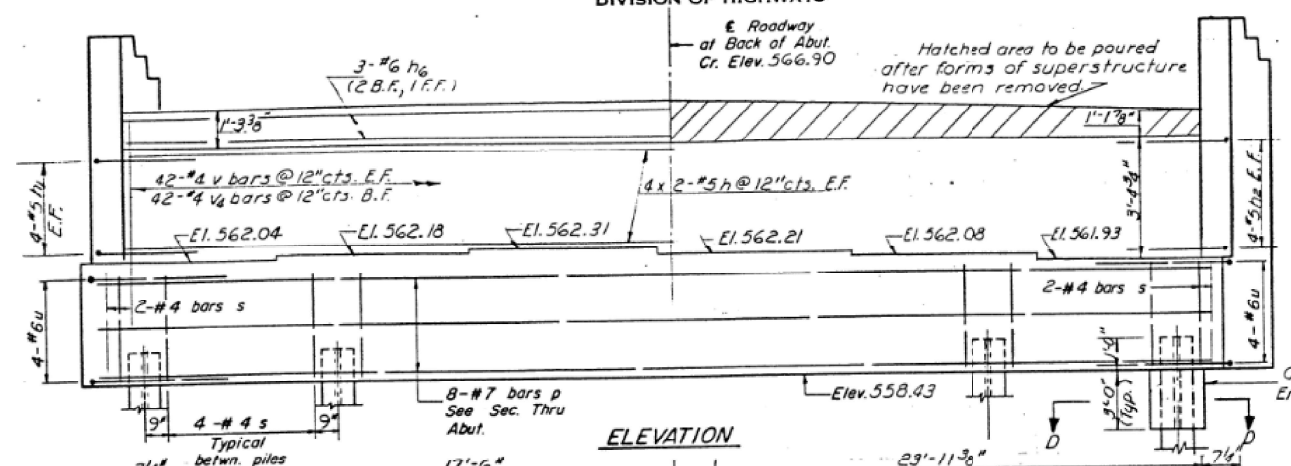
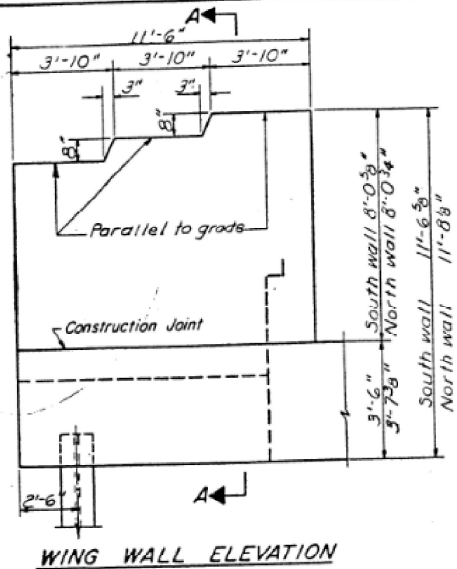
EXISTING PLANS
SN 041-0077 (E.B.) & 041-0078 (W.B.)
SHEET 21 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	401

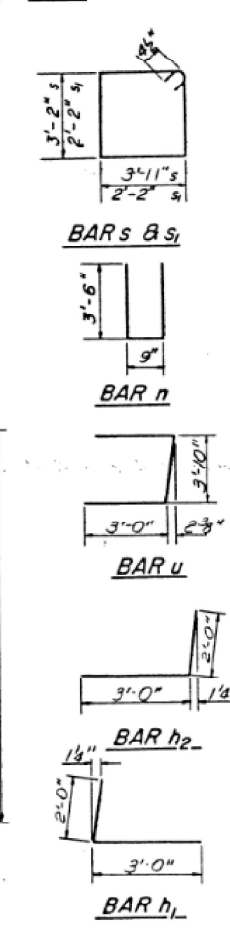
CONTRACT NO. 78604
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SECTION	QUANTITY	TOTAL SHEETS	SHEET NO.
41-64 GHVB1	28	18	20 SHEETS



PILE DATA
Type Steel 8BP36
Capacity Driven to refusal
Est Length 49'-0"
No Required 13 including 1 test pile



ONE ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	16	#5	21'-6"	—
h1	8	#5	5'-0"	L
h2	8	#5	5'-0"	—
h3	4	#4	3'-7"	—
h4	4	#4	7'-5"	—
h5	32	#4	11'-3"	—
h6	3	#6	41'-9"	—
n	24	#5	7'-9"	U
p	8	#7	43'-9"	—
h	12	#7	11'-9"	—
s	44	#4	14'-11"	□
s1	24	#4	9'-5"	□
u	8	#6	9'-10"	□
v	84	#4	5'-8"	—
v1	16	#4	7'-9"	—
v2	16	#4	7'-1"	—
v3	16	#4	6'-5"	—
v4	42	#4	3'-2"	—

Class X Concrete Cu Yds 44.9
Reinforcement Bars Lbs 3440
Steel Piles (-BP-36) Lin. Ft 533
Test Piles Steel (3BP36) Ea. 1

EAST ABUTMENT
SOUTH BRIDGE
FAT RT 64 SEC. 31-6HVB-1
JEFFERSON COUNTY
STA. 2031+94.04

DESIGNED	A. T. Johnson	EXAMINED	APRIL 10 1969
CHECKED	J. B. Nelson	PASSED	
DRAWN	S.G. Ferchow	APPROVED	
CHECKED	Bev Robinson		

FILE NAME: H:\P220060 - 1-64\Microstation\041-0077_0078\0410077_0078-022-Existing Plans.dgn



USER NAME	DESIGNED	REVISED
PLOT SCALE	CHECKED	REVISED
PLOT DATE	DRAWN	REVISED
	CHECKED	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
SN 041-0077 (E.B.) & 041-0078 (W.B.)

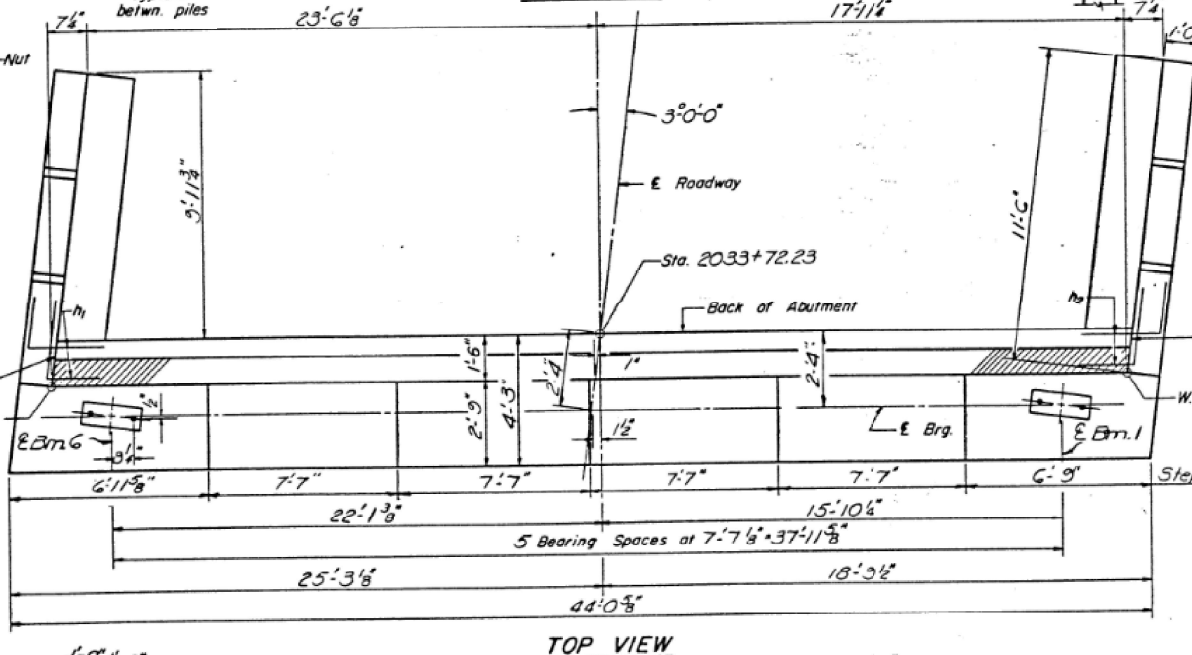
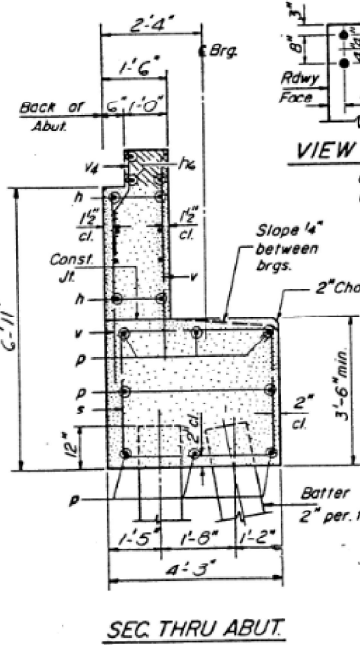
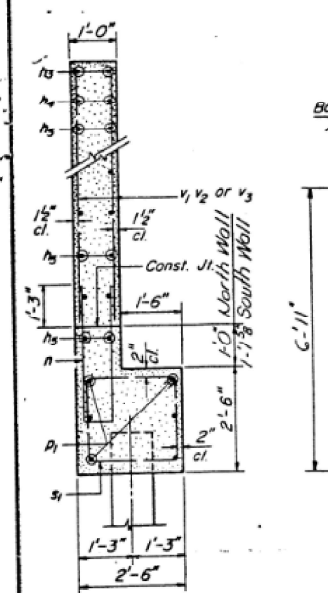
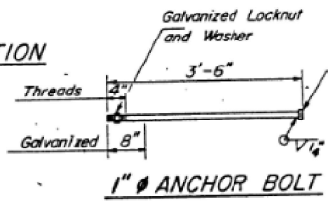
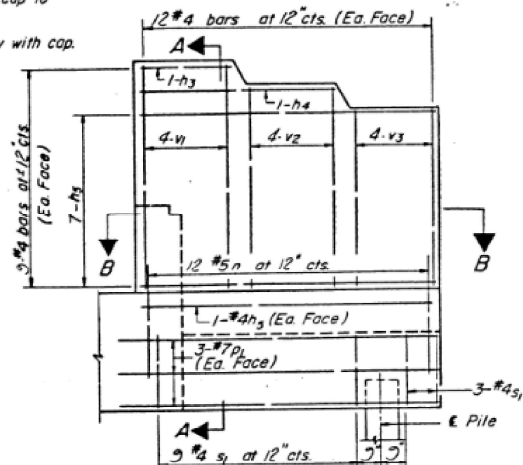
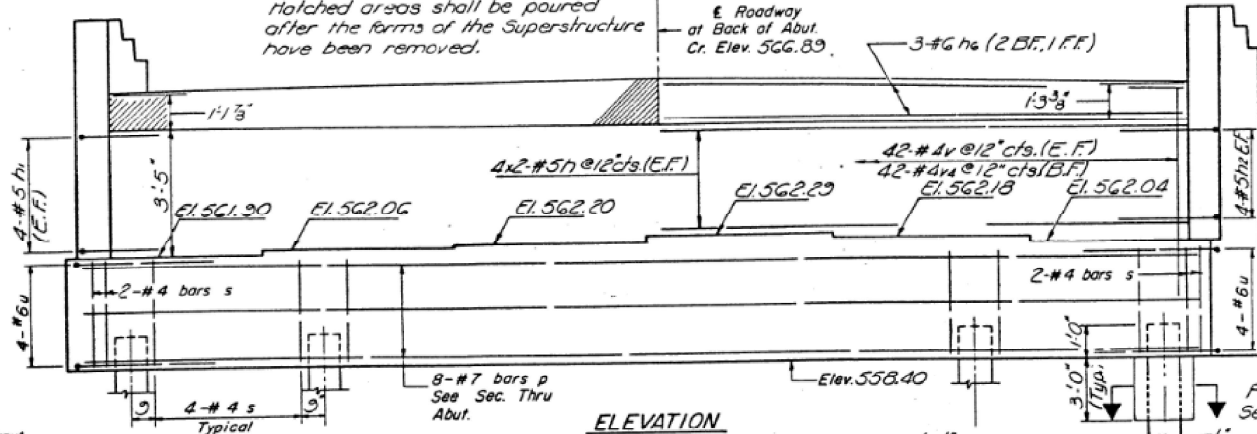
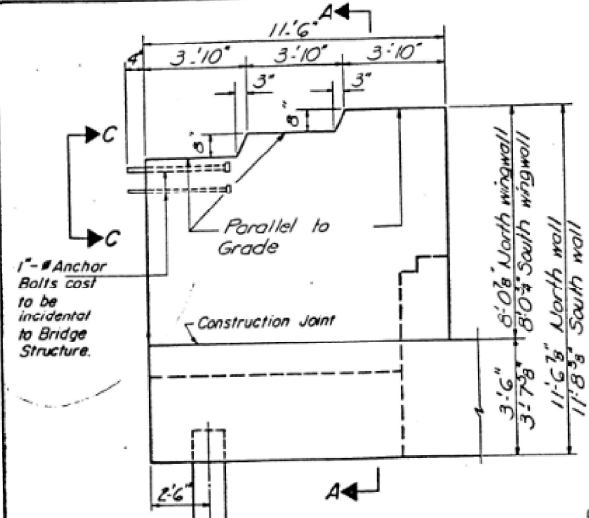
SHEET 22 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2,BSMART 2023	JEFFERSON	1052	402
CONTRACT NO. 78604			ILLINOIS FED. AID PROJECT	

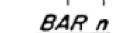
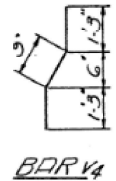
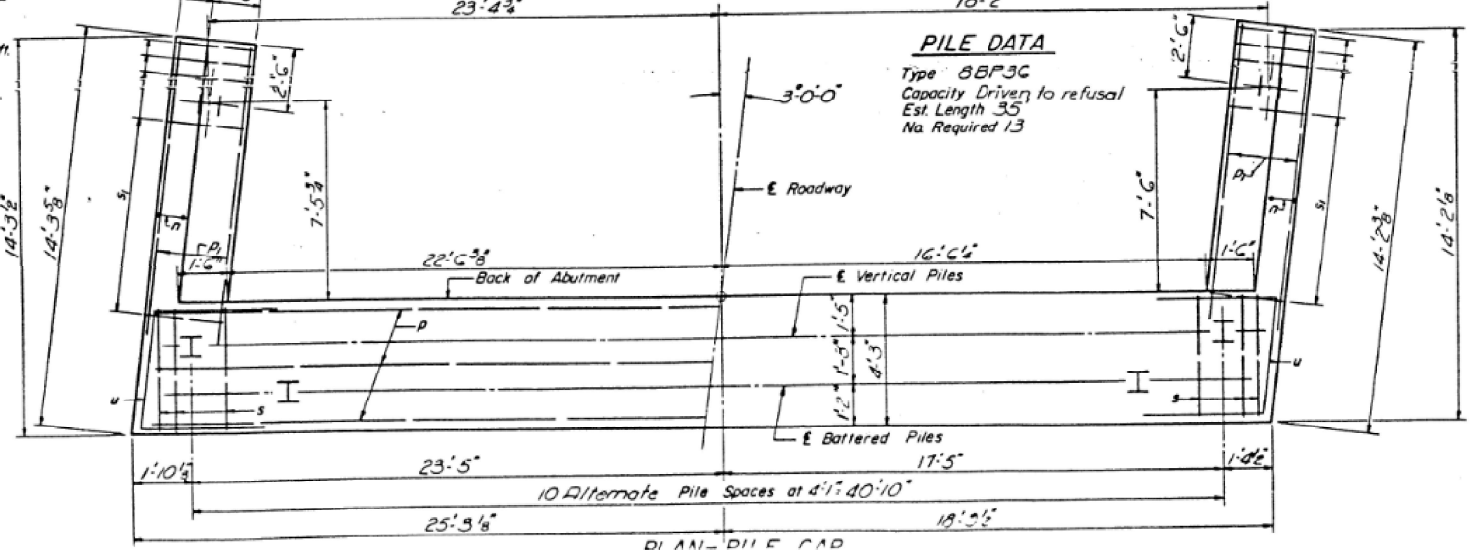
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

Note: Hatched areas shall be poured after the forms of the Superstructure have been removed.

Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.



PILE DATA
Type BPF3C
Capacity Driven to refusal
Est. Length 35
No. Required 13



ONE ABUTMENT
BILL OF MATERIAL

Bar	No	Size	Length	Shape
h	16	#5	21'-6"	—
h1	8	#5	3'-0"	L
h2	8	#5	5'-0"	L
h3	4	#4	3'-7"	—
h4	4	#4	7'-3"	—
h5	32	#4	11'-3"	—
h6	3	#6	41'-9"	—
n	24	#5	7'-9"	U
p	8	#7	43'-9"	—
p1	12	#7	11'-3"	—
s	44	#4	14'-11"	□
s1	24	#4	3'-5"	□
u	8	#6	9'-10"	—
v	84	#4	5'-8"	—
v1	16	#4	7'-9"	—
v2	16	#4	7'-1"	—
v3	16	#4	6'-5"	—
v4	42	#4	3'-3"	—
Class X Concrete		Cu Yds	450	
Reinforcement Bars		Lbs	3440	
Steel Piles (BPF3C)		Lin Ft	450	
Name Plates		Qty	1	

EAST ABUT. NO. BRIDGE
F.A.I. RTE. 64 SEC. 41-GHVB-1
JEFFERSON CO.
STA. 2031+94.04

DESIGNED A.Y. HILGERT
CHECKED J.B.N.
DRAWN J.T. Downing
CHECKED J.B.N.

APRIL 10 1969
EXAMINED [Signature]
PASSED [Signature]
APPROVED [Signature]

FILE NAME: H:\P220060 - I-64\Microstation\041-0077_0078\0410077_0078-023-Existing_Plans.dgn



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 11/3/2022	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
SN 041-0077 (E.B.) & 041-0078 (W.B.)

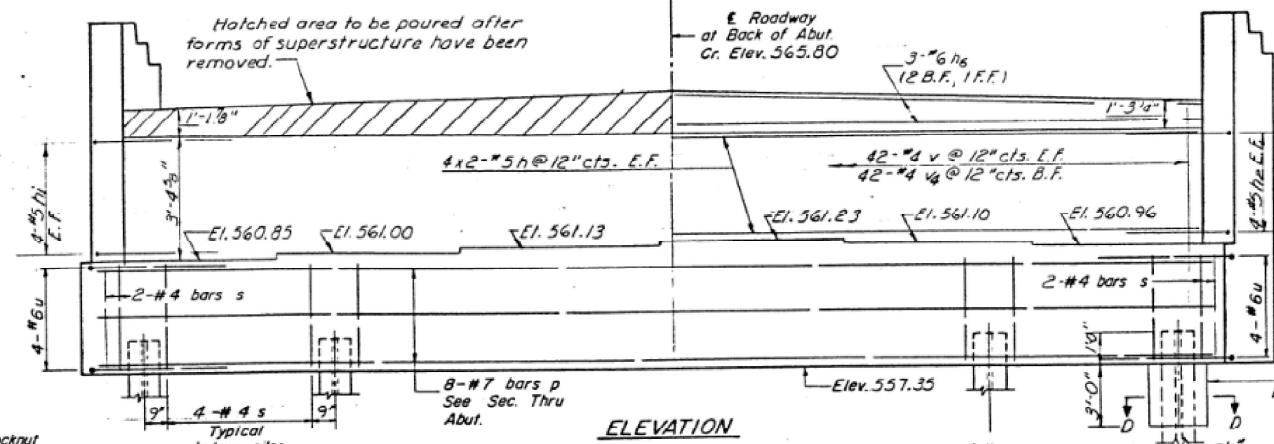
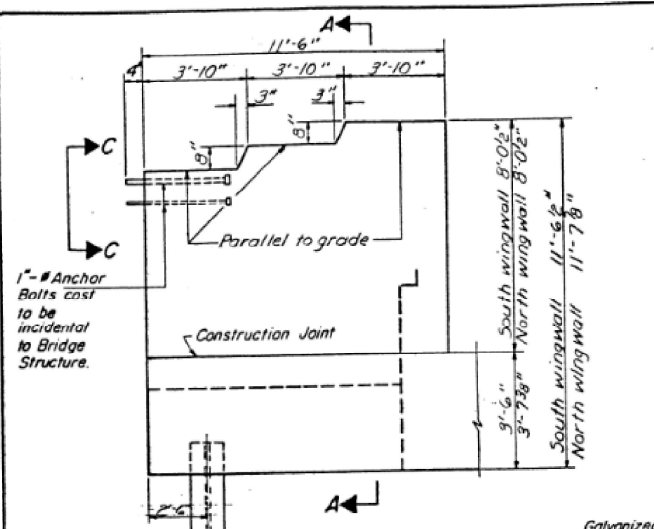
SHEET 23 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78604			ILLINOIS FED. AID PROJECT	

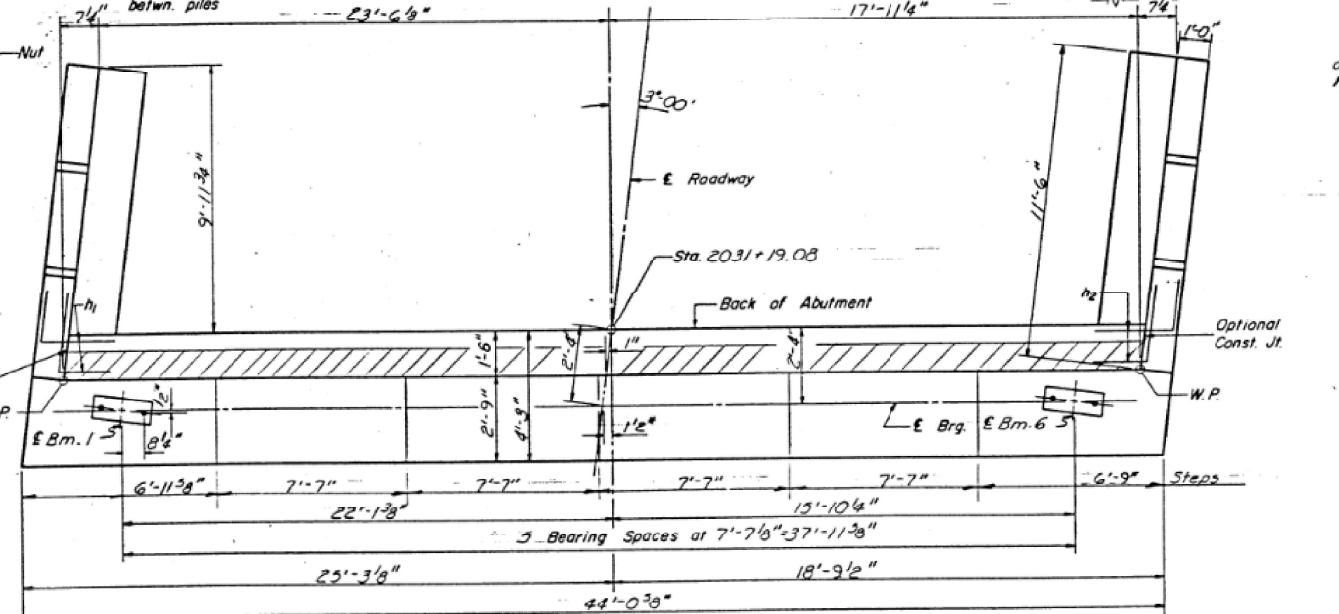
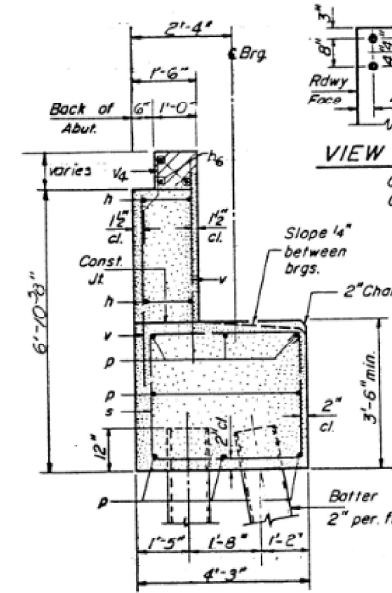
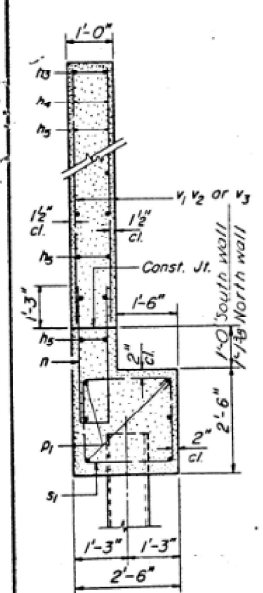
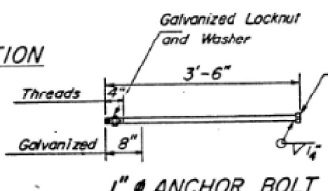
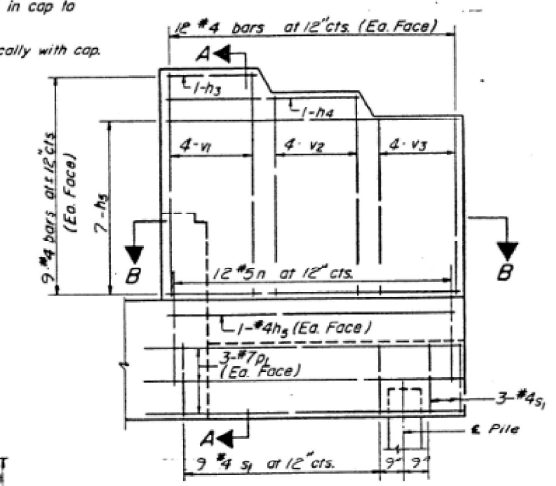
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41-CHVB-1	JEFFERSON	28	20

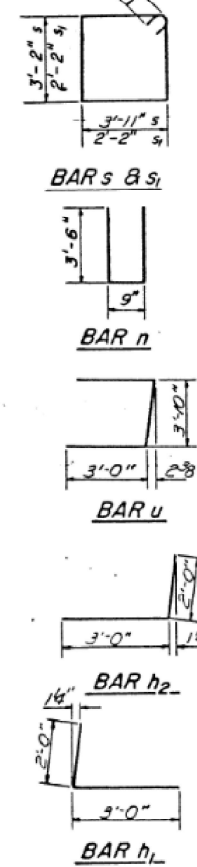
SHEET NO. 13
20 SHEETS



Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.



PILE DATA
Type Steel 88P 36
Capacity Driven to refusal
Est Length 35'-0"
No Required 13



ONE ABUTMENT
BILL OF MATERIAL

Bar	No	Size	Length	Shape
h	16	#5	21'-6"	—
h ₁	8	#5	5'-0"	L
h ₂	8	#5	5'-0"	L
h ₃	4	#4	3'-7"	—
h ₄	4	#4	7'-5"	—
h ₅	32	#4	11'-3"	—
h ₆	3	#6	41'-9"	—
n	24	#5	—	U
p	8	#7	13'-9"	—
p ₁	12	#7	11'-9"	—
s	44	#4	14'-11"	□
s ₁	24	#4	7'-5"	□
u	8	#6	7'-10"	□
v	24	#4	5'-8"	—
v ₁	16	#4	7'-9"	—
v ₂	16	#4	7'-11"	—
v ₃	16	#4	5'-5"	—
v ₄	42	#4	3'-3"	—
Class X Concrete			Cu. Yds	44.9
Reinforcement Bars			Lbs	3340
Steel Piles 88P 36			Lin Ft	433
Name Plates			Ea	1

WEST ABUTMENT
SOUTH BRIDGE
FAI RT. 64 SEC. 41-1/4 S-1
JEFFERSON COUNTY
STA. 2031+14.04

DESIGNED A.T. Hidayat
CHECKED J.B. Nelson
DRAWN SG Ferchow
CHECKED Rev. Robinson

APRIL 10 1969
EXAMINED
PASSED
APPROVED

FILE NAME: H:\P220060 - I-64\Microstation\041-0077_0078\0410077_0078-024-Existing_Plans.dgn



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 11/3/2022	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
SN 041-0077 (E.B.) & 041-0078 (W.B.)

SHEET 24 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2,BSMART 2023	JEFFERSON	1052	404

CONTRACT NO. 78604
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 64	41-6HVB	JEFFERSON	28	25
SHEET NO. 19				
20 SHEETS				

Boring No. 1 SW ABUT.		Station 2031+25		Client 47' RT. S SURVEY	
Elevation	N	Qu / A / L	w (%)	Surface Water E.	Groundwater E. at Completion
538.40				522.1	534.4
535.9	11	3.0 S	25	VERY STIFF TO HARD, DAMP, BROWN STREAKED GREY, CLAY LOAM TILL	512.4
				CONTAINS FRAGMENTS OF WEATHERED LIMESTONE & SAND	511.9
				VERY DENSE LIMESTONE	511.9
				EXTENT OF EXPLORATION **	
				* Q* PENETRATION FOR 50 BLOWS	
				**UNABLE TO AUGER DRILL BELOW ELEVATION 512.4	
528.4	13	1.5 S	19	STIFF, DAMP, BROWN MOTTLED GREY, CLAY	
				FREE WATER ENCOUNTERED AT ELEV. 524.4	
523.4	15	0.9 S	17	MEDIUM, DAMP, BROWN MOTTLED GREY, CLAY TILL TO CLAY LOAM TILL	
				VERY STIFF TO HARD, DAMP, BROWN STREAKED GREY, CLAY LOAM TILL	

Boring No. 2 SW PIER		Station 2031+74		Client 47' RT. S SURVEY	
Elevation	N	Qu / A / L	w (%)	Surface Water E.	Groundwater E. at Completion
537.0				530.5	533.7
534.0	6	1.3 S	22	VERY DENSE, MOIST, BROWN AND GREY, WEATHERED, SHALE	512.0
				EXTENT OF EXPLORATION *	
				**UNABLE TO AUGER DRILL BELOW ELEVATION 512.0	
				SOFT, DAMP TO VERY DAMP	
				STIFF, DAMP, BROWN MOTTLED GREY, CLAY	
				BORDERING SANDY CLAY LOAM TILL	
				HARD, DAMP, BROWN STREAKED GREY, CLAY LOAM TILL	
				BORDERING CLAY TILL	
				VERY DENSE, MOIST, BROWN AND GREY, WEATHERED, SHALE	

Boring No. 3 NW PIER		Station 2031+68		Client 47' RT. S SURVEY	
Elevation	N	Qu / A / L	w (%)	Surface Water E.	Groundwater E. at Completion
536.90				511.4	511.4
				SANDSTONE	95
				UNDESIGNED	15
				VERY DENSE, BROWN, SHALE	
				EXTENT OF EXPLORATION *	
				**UNABLE TO AUGER DRILL BELOW ELEVATION 510.9	
				STIFF TO VERY STIFF, DAMP, BROWN MOTTLED GREY, CLAY	
				FREE WATER ENCOUNTERED AT ELEVATION 522.4	
				HARD, MOIST, BROWN, CLAY LOAM TILL TO SANDY CLAY LOAM TILL	
				HARD, MOIST, BROWN, SANDY CLAY LOAM TILL	

Boring No. 4 N. CENT. PIER		Station 2031+52		Client 47' RT. S SURVEY	
Elevation	N	Qu / A / L	w (%)	Surface Water E.	Groundwater E. at Completion
541.30				519.3	519.3
				CLAY LOAM TILL TO CLAY TILL	
				DENSE	45
				MEDIUM, DAMP, BROWNISH GREY, SILTY CLAY LOAM	
				VERY DENSE, MOIST, BROWN, WEATHERED, SHALE	
				MEDIUM TO STIFF, DAMP, BROWN MOTTLED GREY, SILTY CLAY	
				VERY DENSE, GREY, LIMESTONE	
				VERY DENSE, DARK GREY, SHALE	
				FREE WATER ENCOUNTERED AT ELEVATION 534.3	
				VERY DENSE, GREY, LIMESTONE	
				EXTENT OF EXPLORATION **	
				*HOLE LOCATED TO AVOID TELEPHONE LINES	
				VERY STIFF TO STIFF, DAMP, BROWN STREAKED GREY, CLAY TILL	
				BORDERING CLAY LOAM TILL	
				HARD, MOIST, BROWN STREAKED GREY, CLAY LOAM TILL	

Boring No. 5 S. CENT. PIER		Station 2031+53		Client 47' RT. S SURVEY	
Elevation	N	Qu / A / L	w (%)	Surface Water E.	Groundwater E. at Completion
541.70				531.2	531.2
				HARD, MOIST, BROWN STREAKED GREY, CLAY LOAM TILL	
				MEDIUM, DAMP, BROWNISH GREY, SILTY CLAY LOAM	
				VERY DENSE, MOIST, BROWN & GREY, SHALE	
				STIFF, DAMP, GREY MOTTLED BROWN, SILTY CLAY	
				FREE WATER ENCOUNTERED AT ELEV. 534.2	
				STIFF, DAMP, GREY MOTTLED BROWN, CLAY	
				EXTENT OF EXPLORATION **	
				*HOLE LOCATED TO AVOID TELEPHONE LINES	
				**UNABLE TO AUGER DRILL BELOW ELEVATION 511.2	
				VERY STIFF TO STIFF, DAMP, BROWN STREAKED GREY, CLAY TILL	
				BORDERING CLAY LOAM TILL	
				HARD, MOIST, BROWN STREAKED GREY, CLAY LOAM TILL	
				BORDERING CLAY TILL	

Boring No. 6 SE ABUT.		Station 2031+91		Client 47' RT. S SURVEY	
Elevation	N	Qu / A / L	w (%)	Surface Water E.	Groundwater E. at Completion
541.60				530.4	536.6
				MEDIUM TO STIFF, MOIST, BROWN MOTTLED GREY, SILTY CLAY	
				VERY DENSE, MOIST, BROWN & GREY, SHALE	
				STIFF, DAMP, BROWN MOTTLED GREY, CLAY	
				WATER SEEP ENCOUNTERED AT ELEVATION 534.6	
				VERY STIFF, DAMP, BROWN MOTTLED GREY & BLACK, CLAY LOAM TILL	
				BORDERING CLAY LOAM TILL	
				STIFF TO HARD, MOIST TO DAMP, BROWN STREAKED GREY, SANDY CLAY LOAM TILL	
				VERY DENSE, MOIST, BROWN MOTTLED BLACK, WEATHERED, SANDY SHALE	

DESIGNED *A. X. HAYAT*
 CHECKED *J. Engen*
 DRAWN *L. Williams*
 CHECKED *J. E.*

APR 10 1969
 EXAMINED *[Signature]*
 PASSED
 APPROVED

N-Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30"
 Qu-Unconfined Compressive Strength - 1/31
 w-Water Content - percentage of oven dry weight - %
 Type failure
 B-Bulge Failure
 S-Shear Failure
 E-Estimated Value
 P-Penetrometer

BORING DATA
 F.A.I. 64 SECTION 41-6HVB-1
 JEFFERSON COUNTY
 STATION 2031+94.04

FILE NAME: H:\P220060 - I-64\Microstation\041-0077_0078\0410077_0078-025-Existing Plans.dgn



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 11/3/2022	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
SN 041-0077 (E.B.) & 041-0078 (W.B.)

SHEET 25 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	405
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41-6HVB-1	JEFFERSON	28	24

SHEET NO. 20
20 SHEETS

Elevation	N	Qu / L.T.	w (%)	Surface Water El.		Elevation	N	Qu / L.T.	w (%)
				Groundwater El. at Completion	After 24 Hours				
541.40				516.1	516.1				
	12	1.0	16						
	14	1.4	25						
	11	0.8	20						
	13	1.9	18						
	22	2.6	18						
	27	1.9	17						
	67	6.2	11						
	70	8.1	11						
	60	3.9	10						

Elevation	N	Qu / L.T.	w (%)	Surface Water El.		Elevation	N	Qu / L.T.	w (%)
				Groundwater El. at Completion	After 24 Hours				
541.00				531.0	536.5				
	14	1.3	7						
	19	1.4	21						
	8	0.6	20						
	13	2.1	21						
	19	1.5	25						
	29	2.6	19						
	95	1.5	11						
	95	9.7	10						
	57	4.7	12						

Elevation	N	Qu / L.T.	w (%)	Surface Water El.		Elevation	N	Qu / L.T.	w (%)
				Groundwater El. at Completion	After 24 Hours				
540.10				535.1	535.1				
	13	1.0	14						
	21	2.2	21						
	9	0.6	26						
	13	2.2	21						
	16	2.1	20						
	22	2.3	17						
	61	9.5	11						
	68	6.5	10						
	44	7.4	16						

Elevation	N	Qu / L.T.	w (%)	Surface Water El.		Elevation	N	Qu / L.T.	w (%)
				Groundwater El. at Completion	After 24 Hours				
537.80				534.8	534.8				
	11	2.2	27						
	17	1.9	24						
	11	1.3	19						
	11	1.7	23						
	17	2.7	16						
	69	1.3	14						
	63	8.3	11						
	64	9.7	11						
	40		14						

DESIGNED *S. E. Schuyler*
CHECKED *S. Enger*
DRAWN *D. Williams*
CHECKED *S. E.*

APRIL 10 1969
EXAMINED *[Signature]*
PASSED
APPROVED

N-Standard Penetration Test- Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30"
Qu-Unconfined Compressive Strength-1/2"
w-Water Content-percentage of oven dry weight-%
Type failure
B-Bulge Failure
S-Shear Failure
E-Estimated Value
P-Penetrometer

BORING DATA
FAI RT. 64 SECTION 41-6HVB-1
JEFFERSON COUNTY
STATION 2031+94.04

FILE NAME: H:\P220060 - 1-64\Microstation\041-0077_0078\0410077_0078-026-Existing Plans.dgn



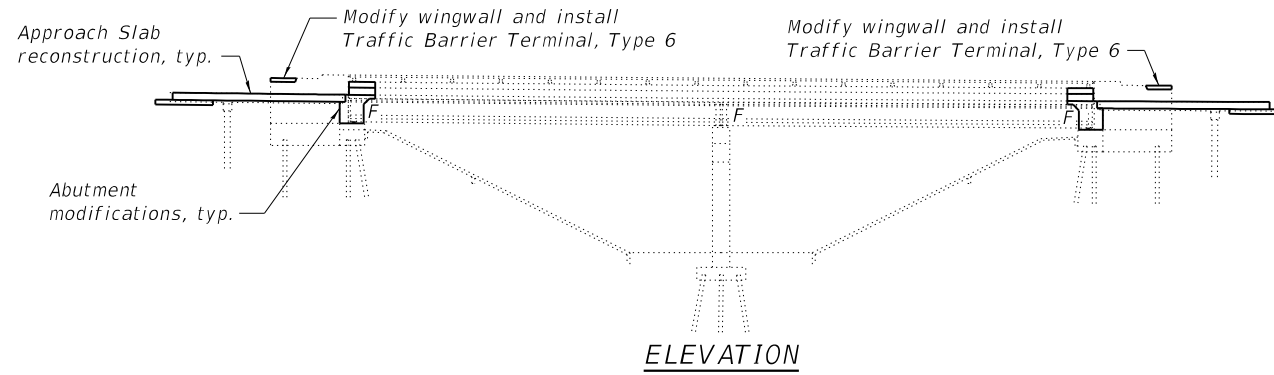
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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 11/3/2022	DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
SN 041-0077 (E.B.) & 041-0078 (W.B.)

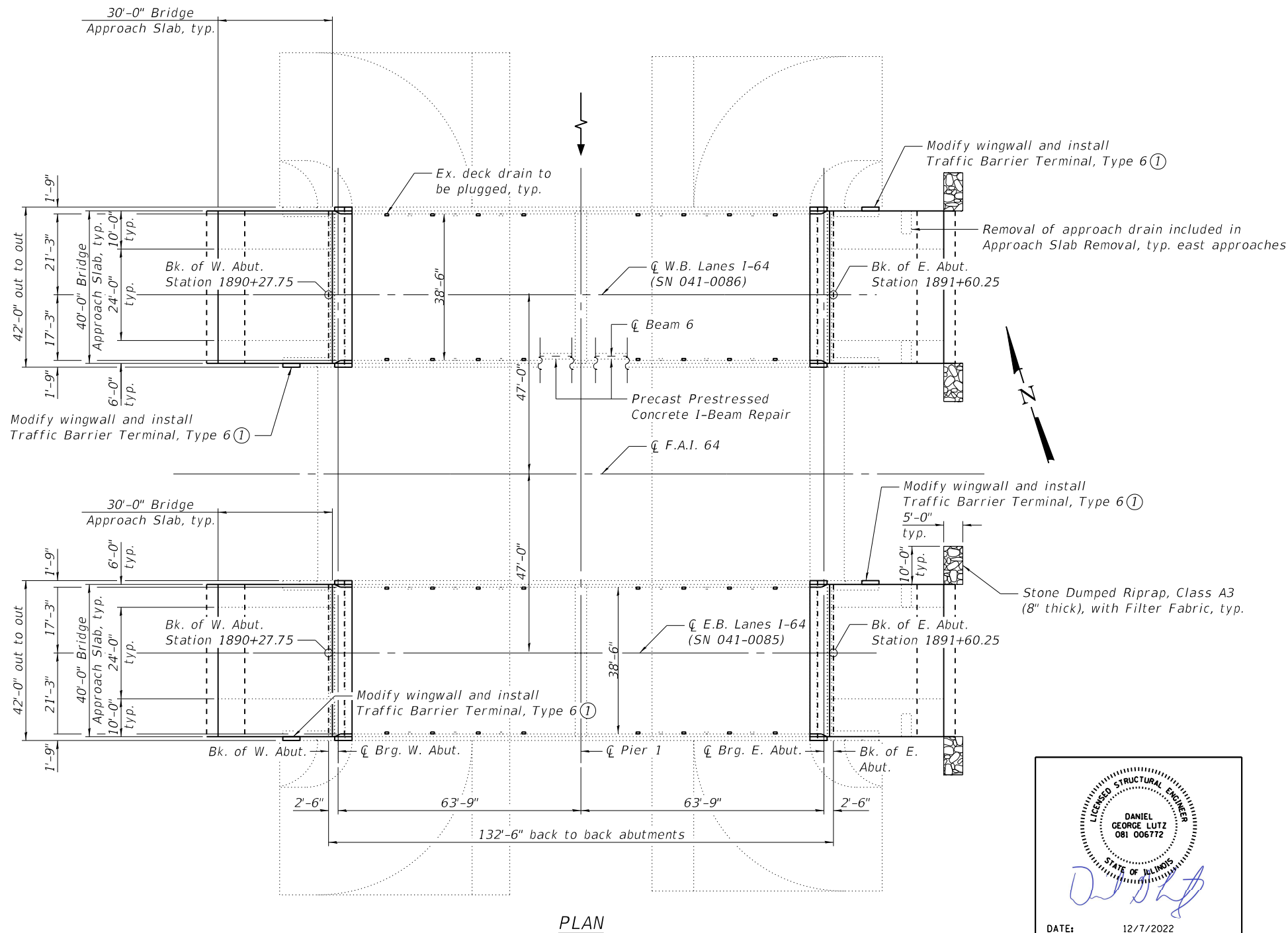
SHEET 26 OF 26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	406
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				



SCOPE OF WORK

- 1 Scarify deck 2½"
- 2 Perform deck repairs as shown. Plug every other floor drains as shown.
- 3 Remove and replace bridge approach slabs and pavement connectors including removal of buried pile bent caps.
- 4 Modify parapets to accommodate Traffic Barrier Terminals, Type 6.
- 5 Convert existing stub abutments to integral abutments.
- 6 Install new latex concrete overlay on bridge deck and perform diamond grinding, longitudinal bridge deck grooving and apply protective coat. Up to ¼" may be ground off the bridge deck latex concrete overlay and the bridge approach slabs.
- 7 Perform structural repair of concrete on pier caps.
- 8 Perform Precast Prestress Concrete I-Beam Repair.



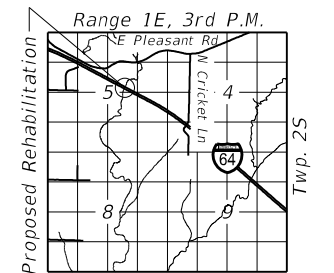
DESIGN STRESSES

FIELD UNITS

New Construction
 f'c = 4,000 psi (Superstructure)
 fy = 60,000 psi (Reinforcement)

INDEX OF SHEETS

Sheet No.	Description
1	General Plan & Elevation
2	General Data
3	Deck Patching Plan
4	Removal Details
5	Diaphragm Plan & Elevation
6-7	Diaphragm Details
8-9	Bridge Approach Slab Details
10	Substructure Repairs
11	Beam Repairs
12-19	Existing Plans



Notes
 ① For details of wingwall modification, see Sheet 7 of 19.

GENERAL PLAN & ELEVATION
I-64 OVER RAYSE CREEK
F.A.I. RTE. 64
SEC (41-6,41-6-1,41-7)RS-2,BSMART 2023
JEFFERSON COUNTY
STATION 1890+94.00
STRUCTURE NO. 041-0085 (E.B.)
STRUCTURE NO. 041-0086 (W.B.)

DANIEL GEORGE LUTZ
 081 006772
 STATE OF ILLINOIS
 LICENSED STRUCTURAL ENGINEER
 DATE: 12/7/2022
 EXPIRATION: 11/30/2024

FILE NAME: \\Oates-502\data\p220060 - I-64\Microstation\041-0085_0086\0410085_0086-001-General Plan & Elevation.dgn



USER NAME =	DESIGNED - KBC	REVISED -
PLOT SCALE =	CHECKED - ETH	REVISED -
PLOT DATE = 12/7/2022	DRAWN - NBB	REVISED -
	CHECKED - KBC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
SN 041-0085 (E.B.) & 041-0086 (W.B.)
 SHEET 1 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2,BSMART 2023	JEFFERSON	1052	407
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

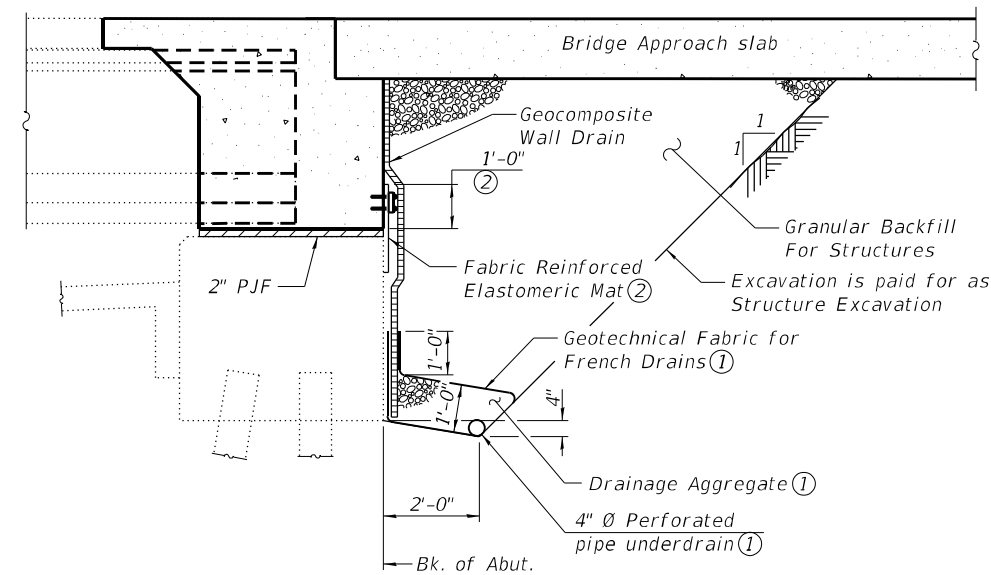
GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

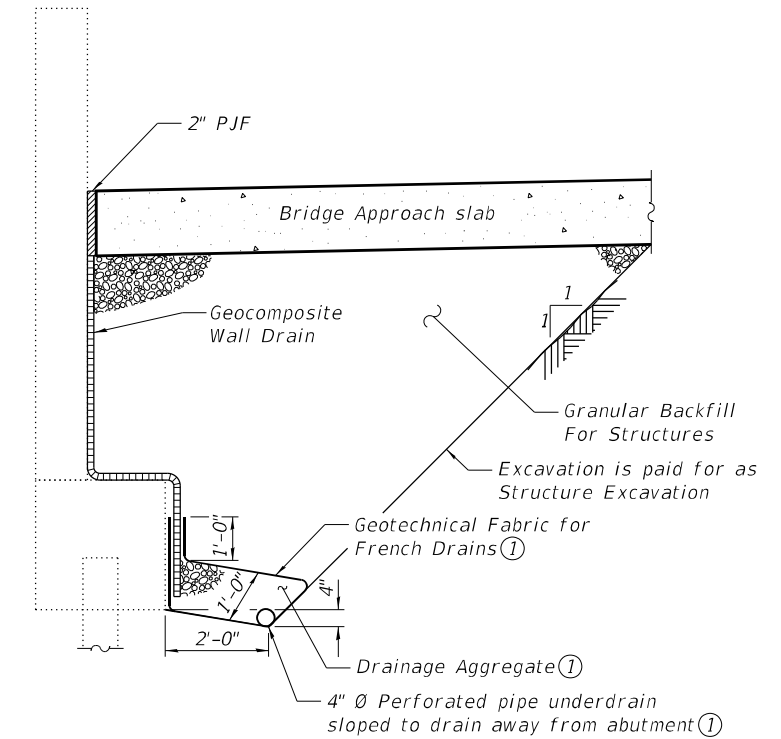
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall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

TOTAL BILL OF MATERIAL

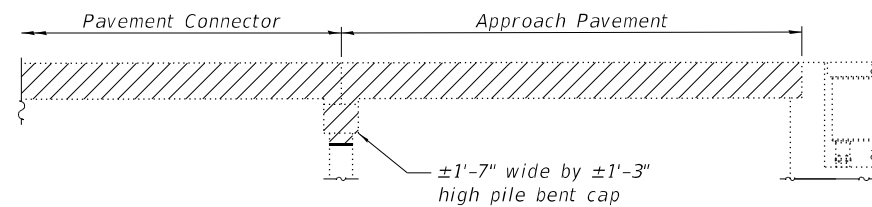
ITEM	UNIT	SN 041-0085	SN 041-0086	TOTAL
Stone Dumped Riprap, Class A3	Sq. Yd.	22	22	44
Filter Fabric	Sq. Yd.	22	22	44
Concrete Removal	Cu. Yd.	43.7	43.7	87.4
Structure Excavation	Cu. Yd.	182	182	364
Concrete Structures	Cu. Yd.	24.8	24.8	49.6
Concrete Superstructure	Cu. Yd.	71.6	71.6	143.2
Protective Coat	Sq. Yd.	638	638	1,276
Concrete Superstructure (Approach Slab)	Cu. Yd.	112.7	112.7	225.4
Reinforcement Bars, Epoxy Coated	Pound	49,910	49,910	99,820
Granular Backfill for Structures	Cu. Yd.	182	182	364
Geocomposite Wall Drain	Sq. Yd.	114	114	228
Concrete Headwalls for Pipe Drains	Each	2	2	4
Pipe Underdrains for Structures 4"	Foot	182	182	364
Approach Slab Removal	Sq. Yd.	170	170	340
Bridge Deck Latex Concrete Overlay, 2 3/4 Inches	Sq. Yd.	514	514	1,028
Cleaning Bridge Seats	Sq. Ft.	238	238	476
Bridge Deck Scarification 2 1/2"	Sq. Yd.	514	514	1,028
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	21	19	40
Plug Existing Deck Drains	Each	16	16	32
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0	1	1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	23	13	36
Diamond Grinding (Bridge Section)	Sq. Yd.	817	817	1,634
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	0	2	2
Acrylic Coating	Sq. Yd.	0	13	13
Fiber Wrap	Sq. Ft.	0	57	57
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	508	508	1,016



SECTION THRU SEMI-INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)



SECTION THRU ABUTMENT WINGWALL
(Horiz. dim. @ Rt. L's)



APPROACH SLAB REMOVAL

Existing approach slab and pavement connector to be removed. Buried pile bent cap to be completely removed. Piles shall be removed to 2' below finished grade. All work shall be paid for as Approach Slab Removal.

Notes:

- ① Included in the cost of Pipe Underdrains for Structures, see Special Provisions.
- ② For details of Fabric Reinforced Elastomeric Mat, see sheet 6 of 19.
- ③ All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. See Article 601.05 of the Standard Specifications and Highway Standard 601101.

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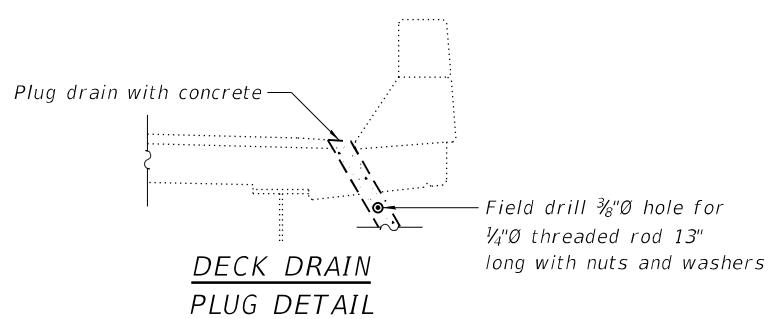
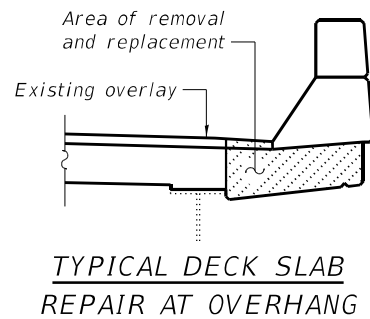
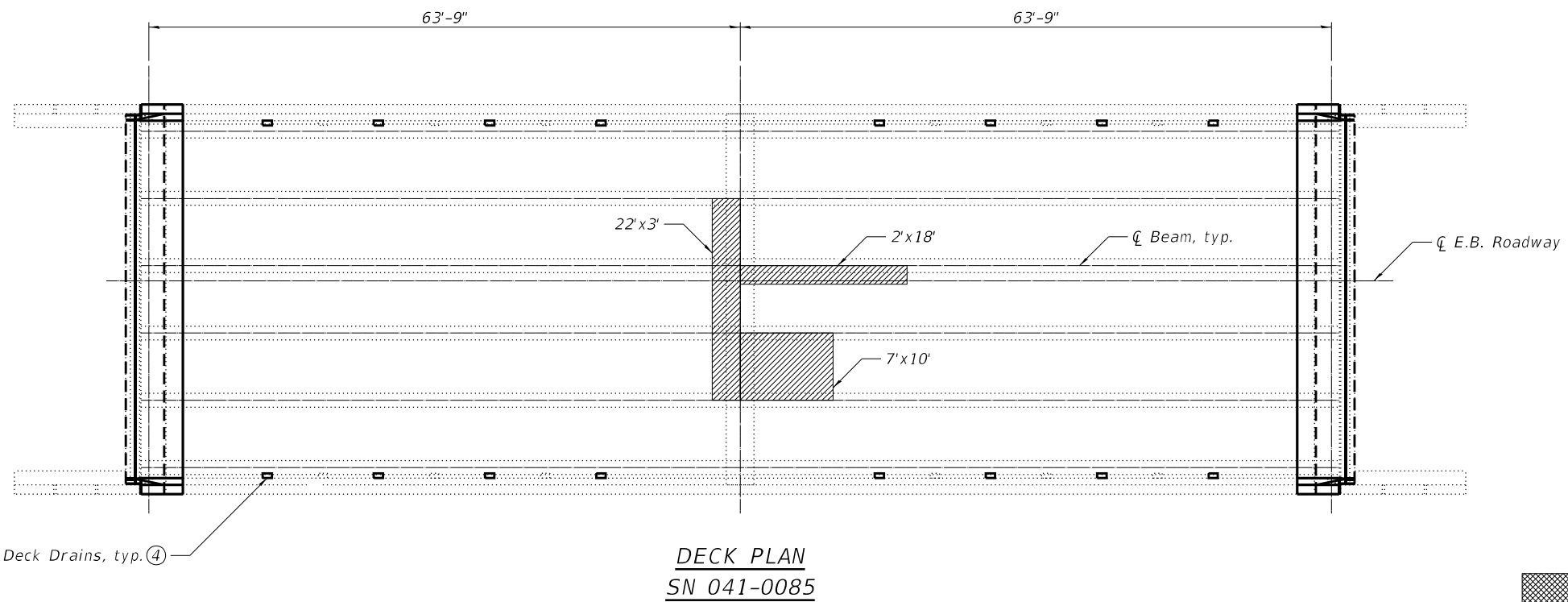
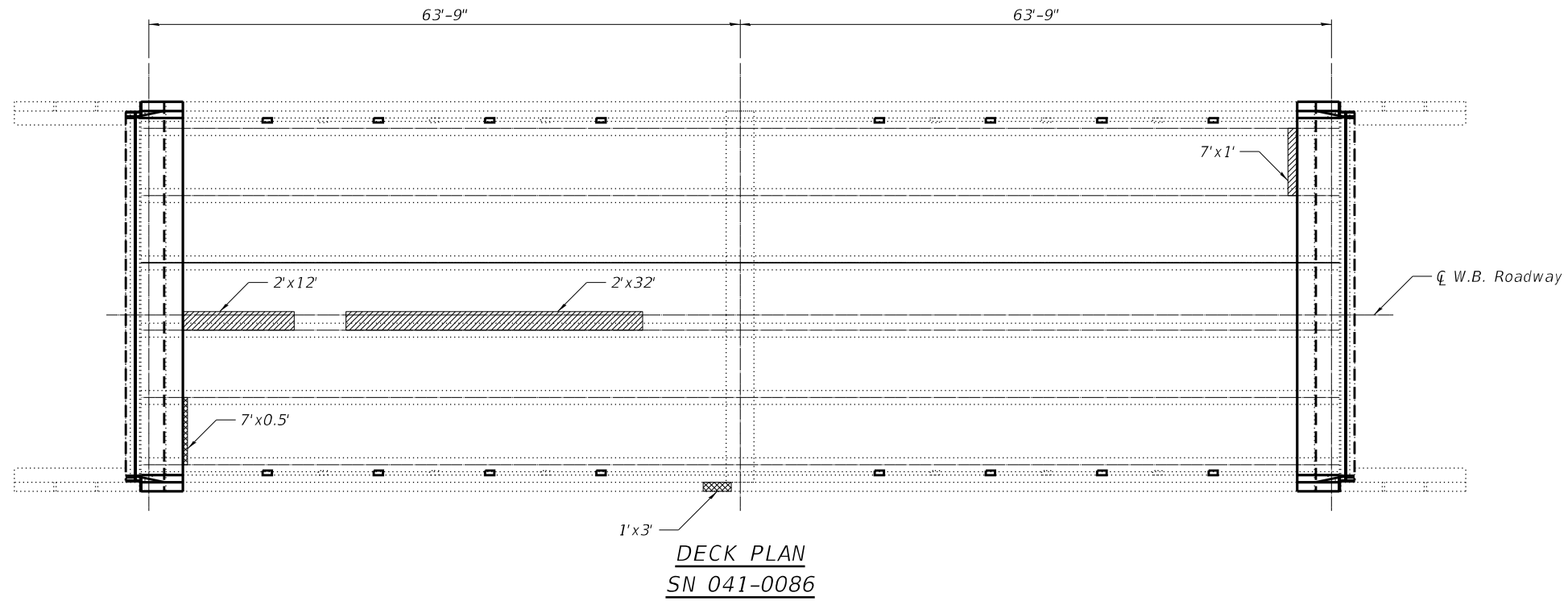
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PLOT SCALE =	DRAWN - KBC	REVISED -
PLOT DATE = 11/4/2022	CHECKED - ETH	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
SN 041-0085 (E.B.) & 041-0086 (W.B.)**

SHEET 2 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2,BSMART 2023	JEFFERSON	1052	408
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				



LEGEND

- Deck Slab Repair (Full Depth, Type I)
- Deck Slab Repair (Full Depth, Type II)

Notes:

- ① The Resident Engineer will determine final treatment locations and quantities in the field after removal of concrete wearing surface, before deck treatment operations begin.
- ② The Engineer shall show actual locations of deck repairs on As-built Plans.
- ③ Deck Slab Repair quantities shown include an additional 20% for repair areas not visually identified in the field.
- ④ If present, drain extensions shall be removed. Cost included in Plug Existing Deck Drains.

BILL OF MATERIAL

ITEM	UNIT	SN 041-0085	SN 041-0086	TOTAL
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0	1	1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	23	13	36
Plug Existing Deck Drains	Each	16	16	32

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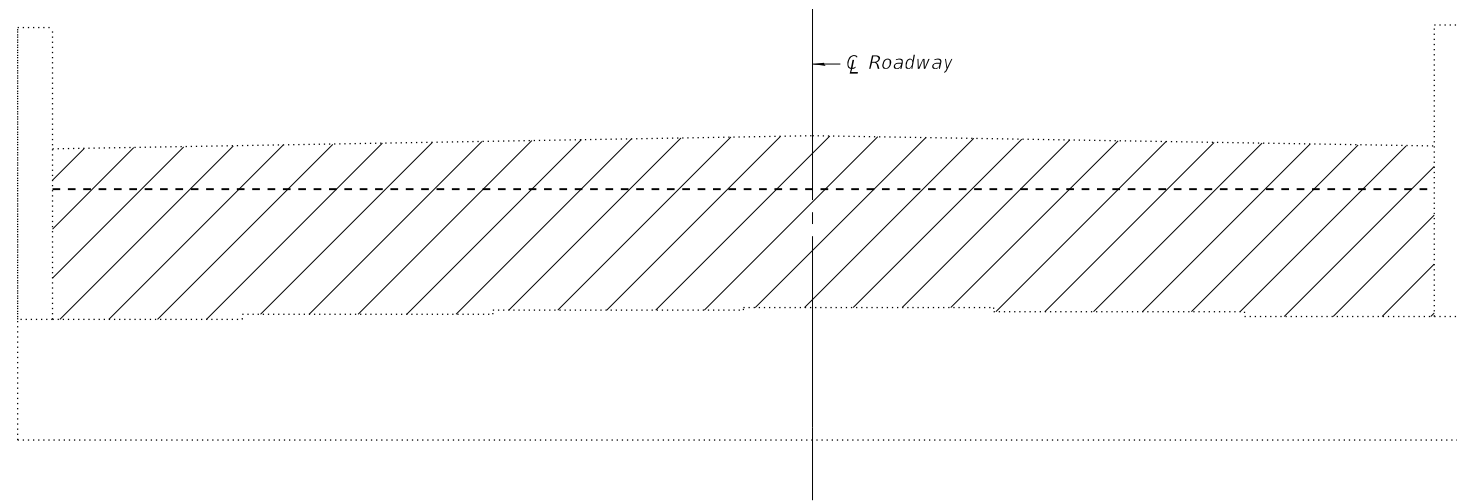
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	CHECKED - KBC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK PATCHING PLAN
SN 041-0085 (E.B.) & 041-0086 (W.B.)**

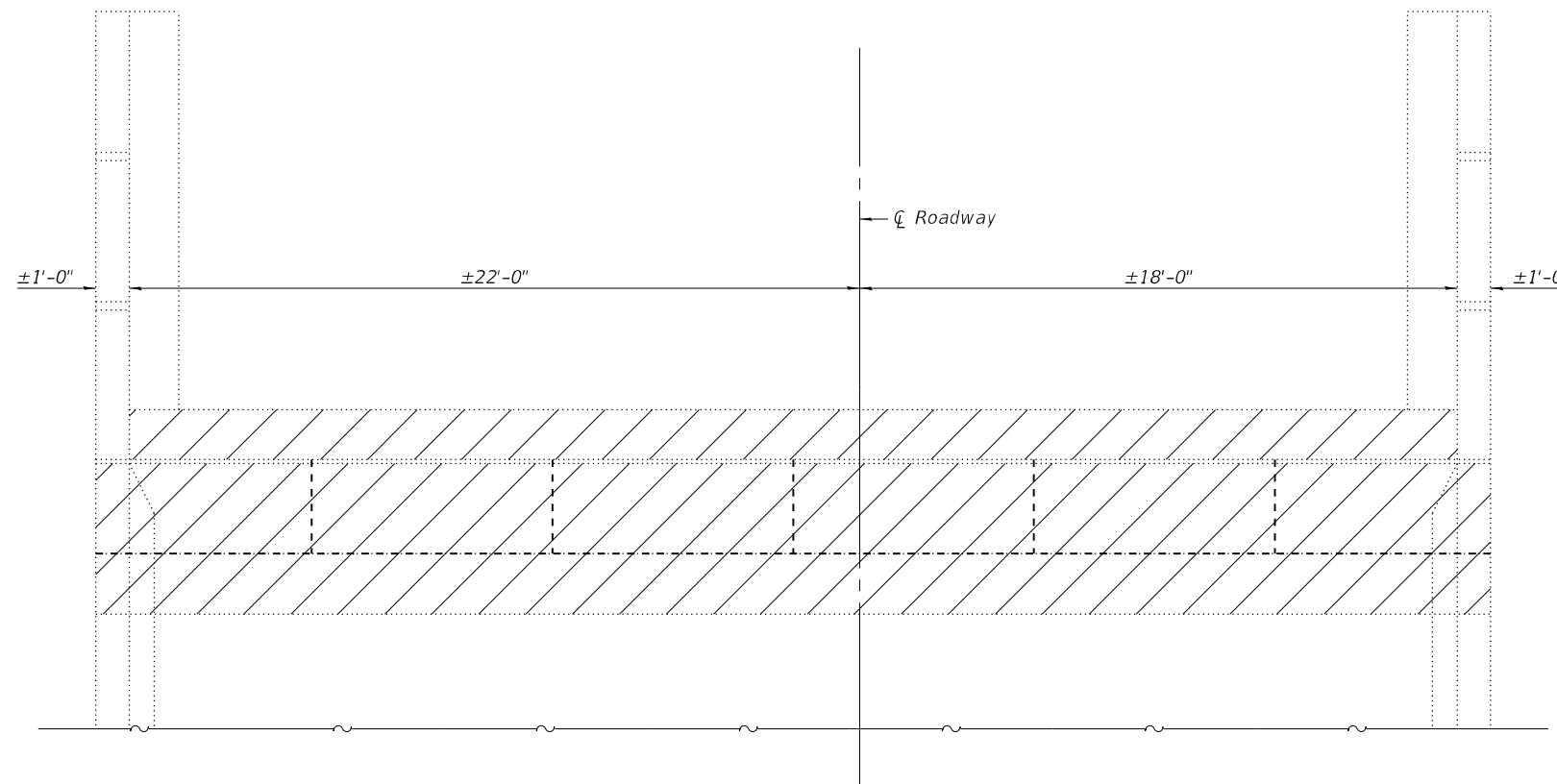
SHEET 3 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	409
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				



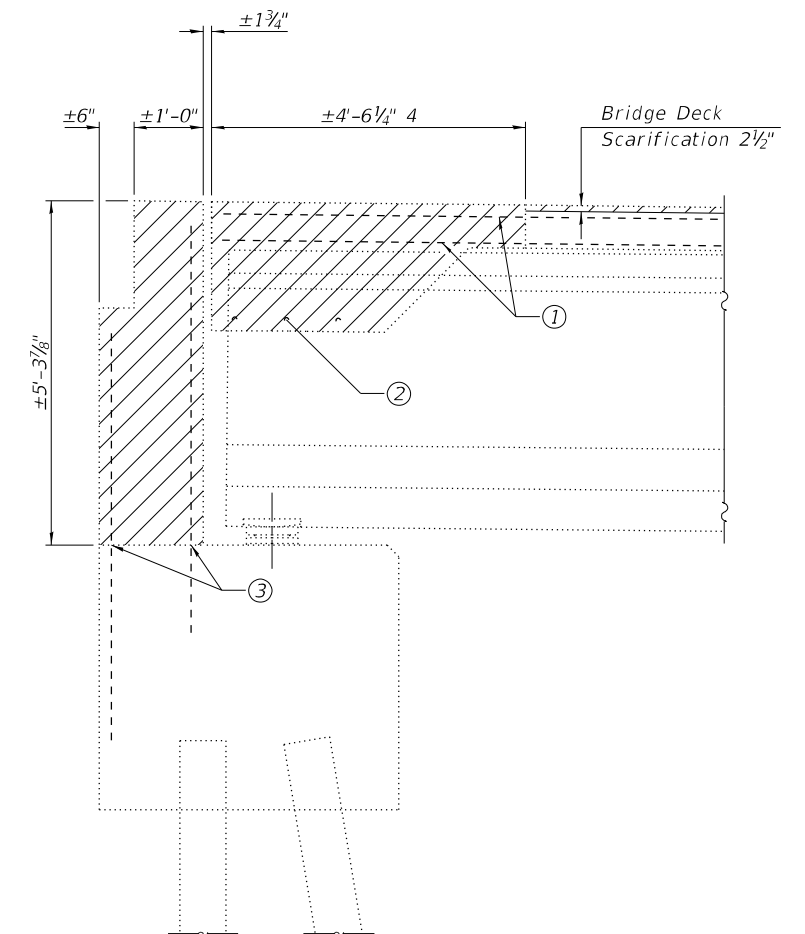
ELEVATION

SN 041-0085 west abutment shown, SN 041-0085 east abutment similar
 SN 041-0086 east abutment shown, SN 041-0086 west abutment similar



PLAN

SN 041-0085 west abutment shown, SN 041-0085 east abutment similar
 SN 041-0086 east abutment shown, SN 041-0086 west abutment similar



SECTION THRU ABUTMENT

BILL OF MATERIAL
 (Four Abutments)

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	87.4

Notes:

- ① Existing reinforcement extending into removal area as shown shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer anchorage system. Cost shall be included with Concrete Removal.
- ② Existing 3/4" threaded rods to remain.
- ③ Existing vertical reinforcement extending into backwall shall be cut flush and sealed with epoxy.
- ④ See Special Provisions for Concrete Removal.

LEGEND



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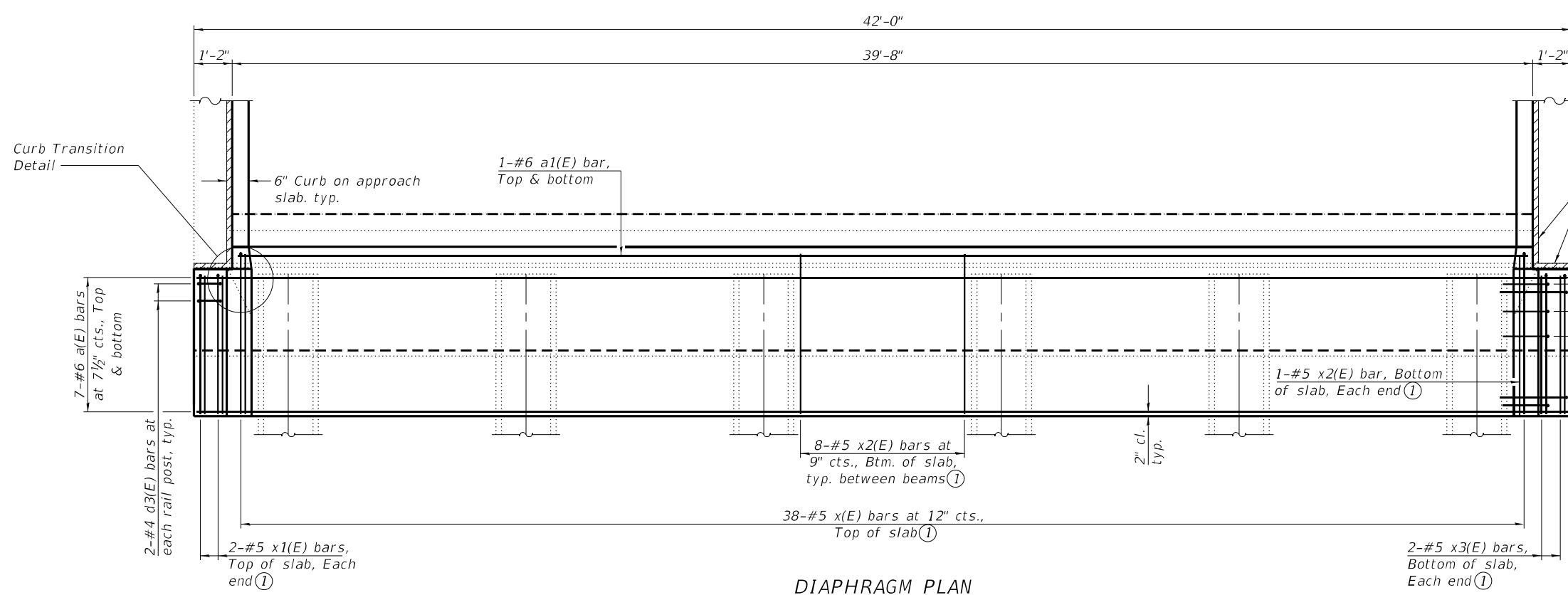
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

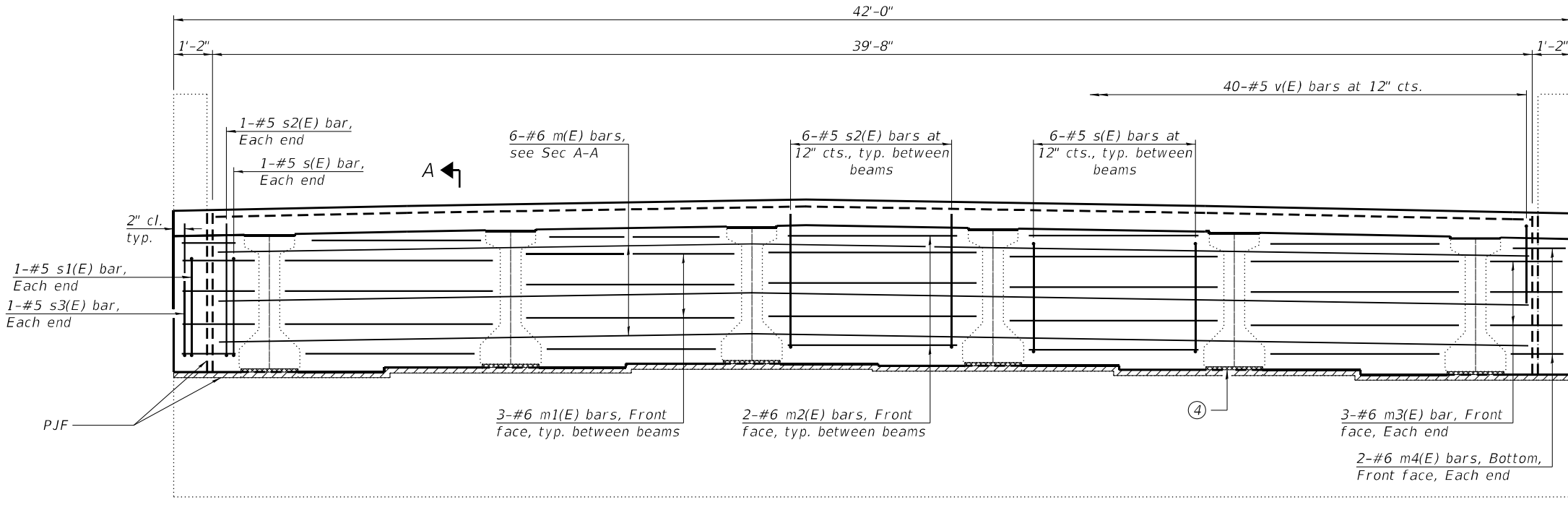
**REMOVAL DETAILS
 SN 041-0085 (E.B.) & 041-0086 (W.B.)**

SHEET 4 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	410
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				



DIAPHRAGM PLAN



DIAPHRAGM ELEVATION

- Notes:
- ① x(E), x1(E), x2(E), & x3(E) bars shall be lapped with existing longitudinal reinforcement in deck.
 - ② For Section A-A, curb transition, and diaphragm details, See Sheet 6 of 19.
 - ③ For Steel Beam End Elevation, Bill of Material, and additional diaphragm details. See Sheet 7 of 19.
 - ④ The volume above proposed PJP, below existing beams, and in front of existing bearings shall be filled with cellular polystyrene according to ASTM C 578 (Types V, VII or XV). Provide slightly thicker piece than measured gap height to tightly fill the hatched area shown between PJP and bottom of beam.

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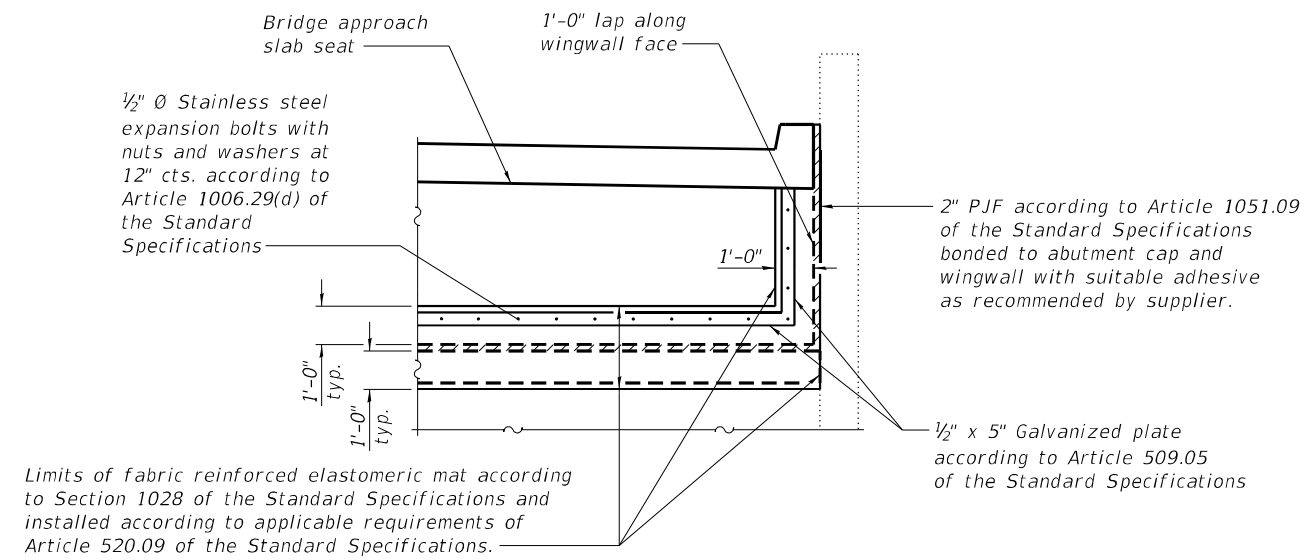
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

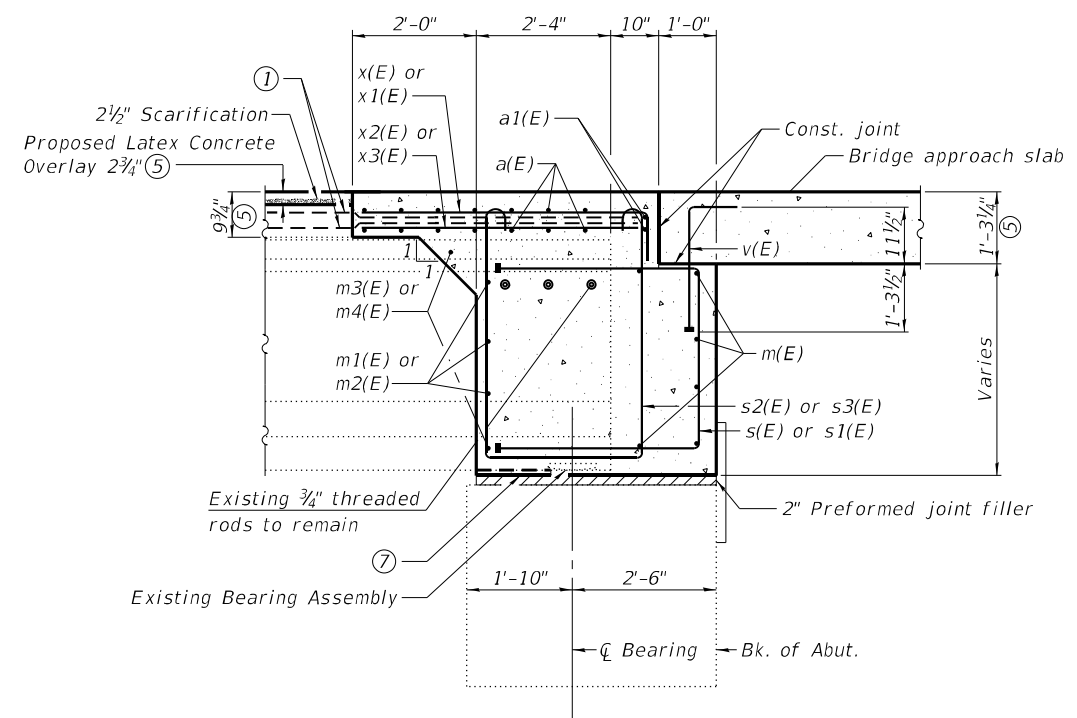
**DIAPHRAGM PLAN & ELEVATION
SN 041-0085 (E.B.) & 041-0086 (W.B.)**

SHEET 5 OF 19 SHEETS

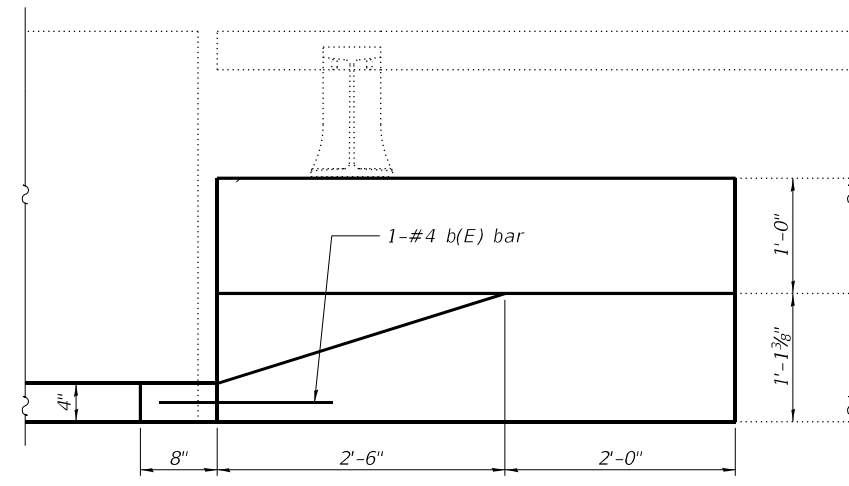
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64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	411
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				



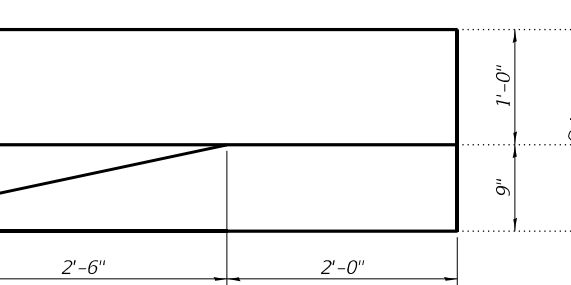
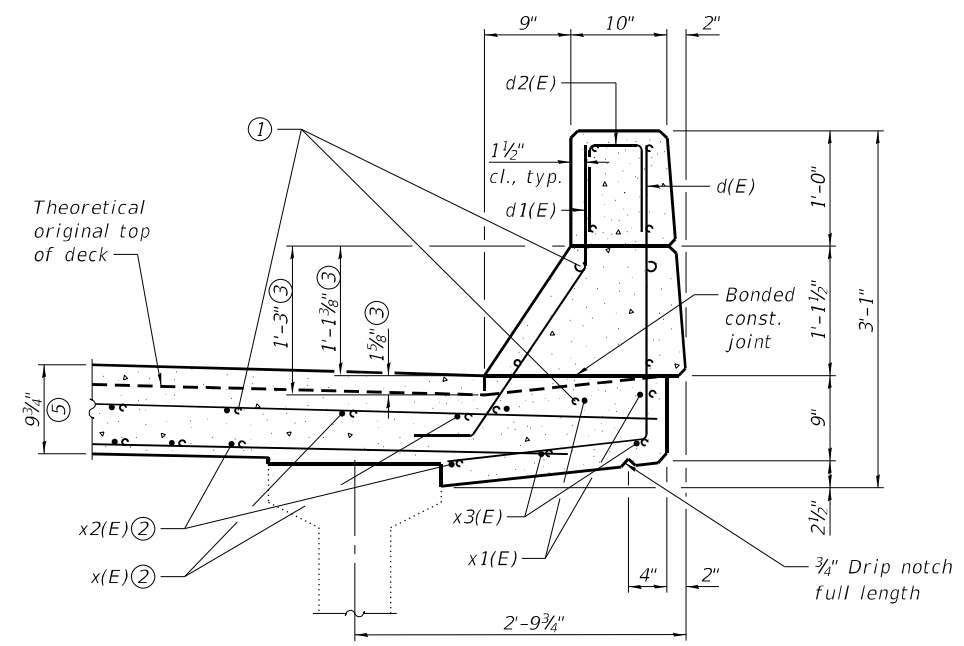
PARTIAL ELEVATION
(Looking at back of abutment)



SECTION A-A



CURB TRANSITION ELEVATION ⑥



CURB TRANSITION PLAN ⑥

- Notes:
- Existing reinforcement extending into removal area as shown shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer anchorage system. Cost shall be included with Concrete Removal.
 - x(E), x1(E), x2(E), & x3(E) bars shall be lapped with existing longitudinal reinforcement in deck.
 - Based on original 1 1/2" deck. Proposed parapet section to align with existing parapet section
 - Cost of fabric reinforced elastomeric mats, galvanized angles and plates, stainless steel expansion bolts with nuts and washers, galvanized bolts with nuts and washers and installation are included in the cost of Concrete Superstructure.
 - Proposed dimensions are shown prior to 1/4" Diamond Grinding of overlay and approach slabs.
 - Transition parapet curb to approach curb as shown.
 - The volume above proposed PJF, below existing beams, and in front of existing bearings shall be filled with cellular polystyrene according to ASTM C 578 (Types V, VII or XV). Provide slightly thicker piece than measured gap height to tightly fill the hatched area shown between PJF and bottom of beam.

FILE NAME: H:\P220060 - I-64\Microstation\041-0085_0086\0410085_0086-006-Diaphragm_Details.dgn



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CHECKED - KBC	REVISIONS -	
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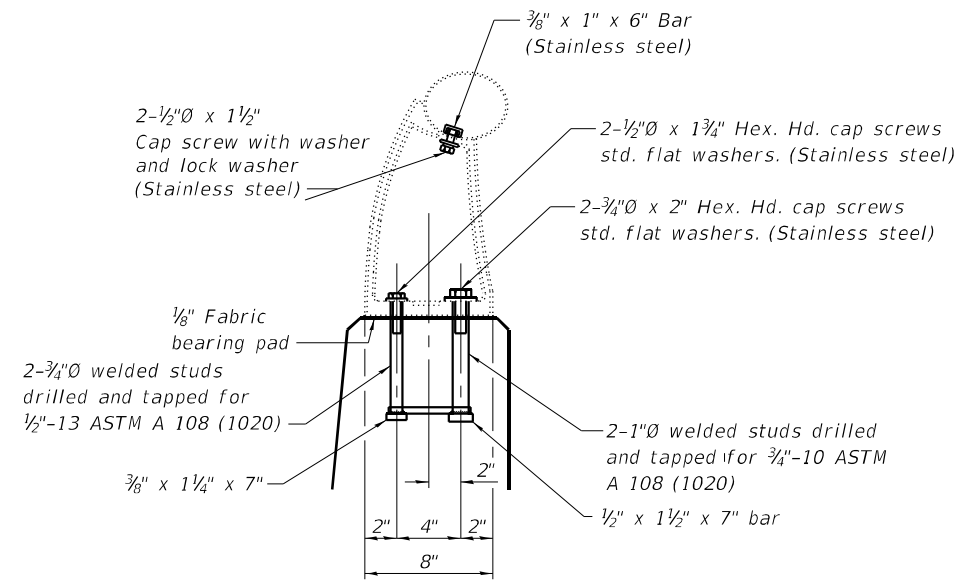
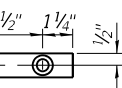
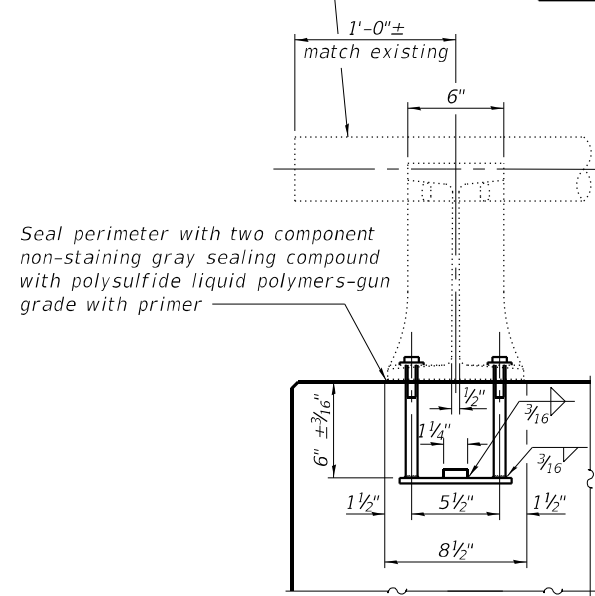
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
SN 041-0085 (E.B.) & 041-0086 (W.B.)

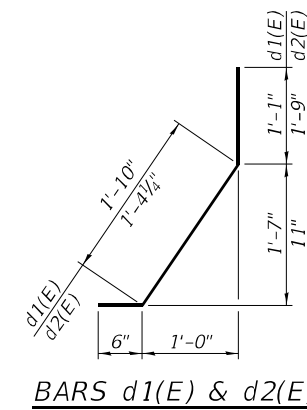
SHEET 6 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

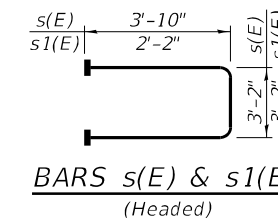
Existing aluminum end post & hand rail terminal section to be removed and re-erected



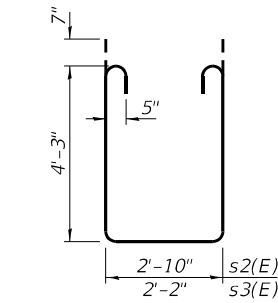
RAIL POST DETAILS



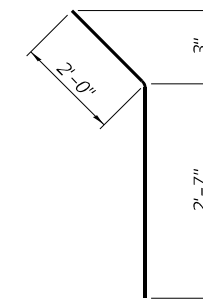
BARS d1(E) & d2(E)



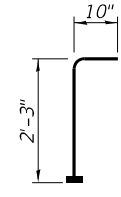
**BARS s(E) & s1(E)
(Headed)**



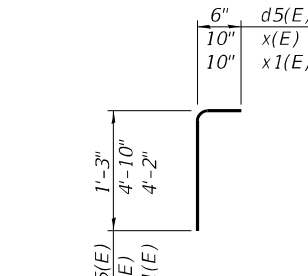
BARS s2(E) & s3(E)



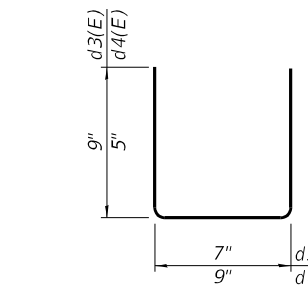
BAR d(E)



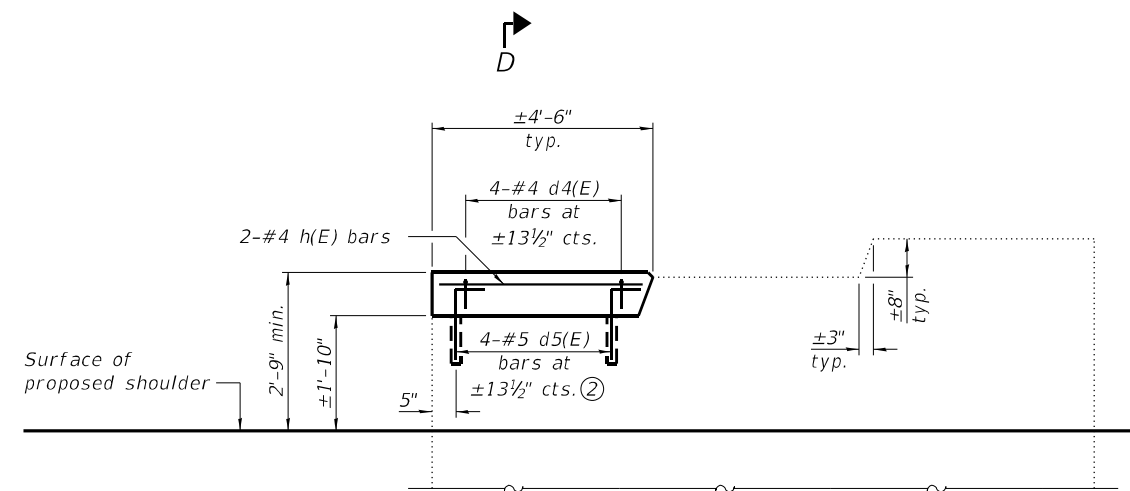
**BAR v(E)
(Headed)**



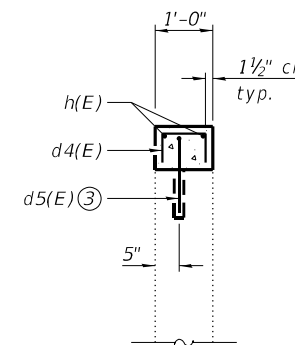
BARS d5(E), x(E) & x1(E)



BARS d3(E) & d4(E)



WINGWALL ELEVATION ④



SECTION D-D

BILL OF MATERIAL

(Four Diaphragms)

Bar	No.	Size	Length	Shape
a(E)	56	#6	41'-8"	—
a1(E)	8	#6	39'-4"	—
b(E)	8	#4	1'-6"	—
d(E)	40	#4	4'-7"	—
d1(E)	24	#5	3'-5"	┌
d2(E)	16	#5	3'-7"	┌
d3(E)	16	#4	2'-1"	U
d4(E)	16	#4	1'-7"	U
d5(E)	16	#5	1'-9"	┌
h(E)	8	#4	4'-2"	—
m(E)	24	#6	39'-4"	—
m1(E)	60	#6	6'-3"	—
m2(E)	24	#6	2'-2"	—
m3(E)	40	#6	5'-1"	—
m4(E)	16	#6	1'-7"	—
s(E)	128	#5	10'-10"	U
s1(E)	8	#5	7'-6"	U
s2(E)	128	#5	12'-6"	U
s3(E)	8	#5	11'-10"	U
v(E)	160	#5	3'-1"	┌
x(E)	152	#5	5'-8"	┌
x1(E)	16	#5	5'-0"	┌
x2(E)	168	#5	4'-10"	—
x3(E)	16	#5	4'-2"	—
Reinforcement Bars, Epoxy Coated			Pound	12,440
Concrete Superstructure			Cu. Yd.	143.2
Concrete Structures			Cu. Yd.	0.6

Notes:

- ① Rail shall be removed and re-erected as necessary to allow structure modifications. Cost included in Concrete Removal.
- ② Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
- ③ Epoxy grout d5(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specifications. Trim bars to fit before grouting.
- ④ For wingwalls to be modified, see sheet 1 of 19.

FILE NAME: H:\P220060 - I-64\Microstation\041-0085_0086\0410085_0086-007-Diaphragm_Details.dgn



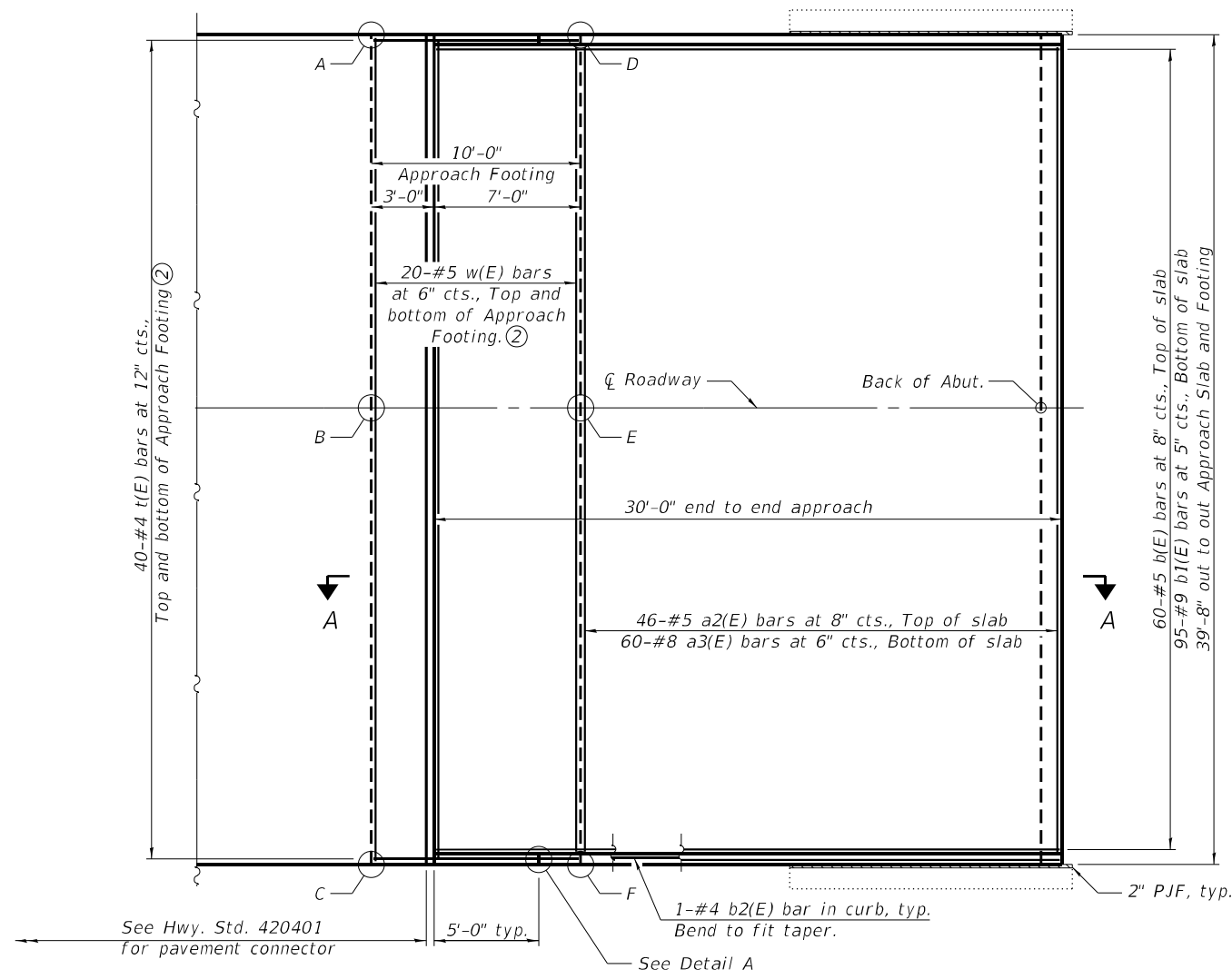
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PLOT SCALE =	CHECKED - KBC	REVISED -
PLOT DATE = 11/4/2022	DRAWN - NBB	REVISED -
	CHECKED - ETH	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DIAPHRAGM DETAILS
SN 041-0085 (E.B.) & 041-0086 (W.B.)**

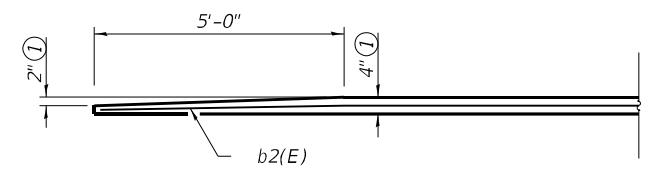
SHEET 7 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	413
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				



PLAN

SN 041-0085 west approach slab shown, SN 041-0085 east approach slab similar
 SN 041-0086 east approach slab shown, SN 041-0086 west approach slab similar



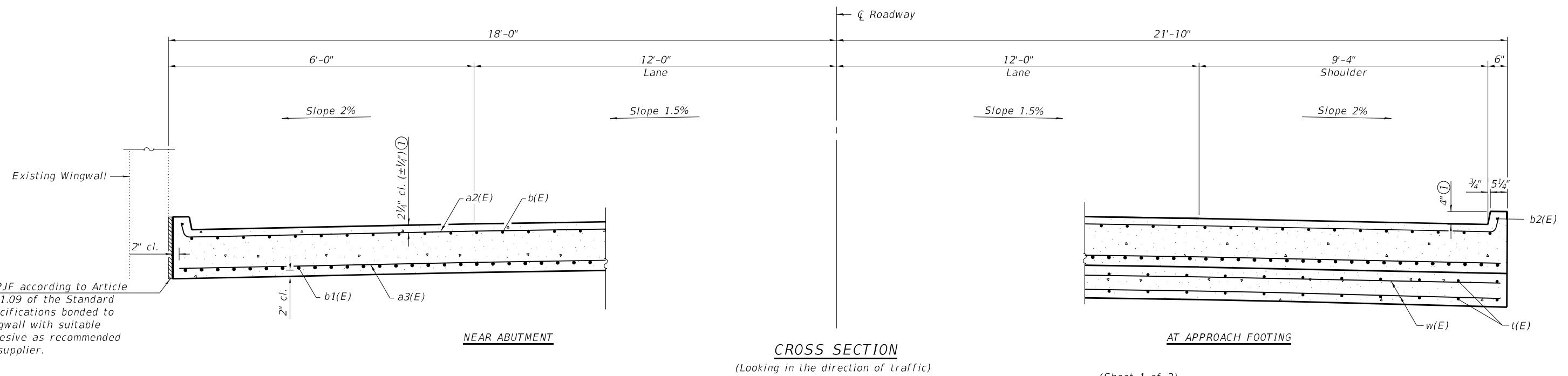
DETAIL A

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

West Approach			East Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A			A		
B			B		
C			C		
D			D		
E			E		
F			F		

West Approach			East Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A			A		
B			B		
C			C		
D			D		
E			E		
F			F		

- Notes:
- ① Proposed dimensions are shown following 1/4" Diamond Grinding of overlay and approach slabs.
 - ② For Section A-A, see sheet 9 of 19.
 - ③ Elevations to be set by Engineer in the field to accommodate existing bridge elevations and proposed roadway elevations.



CROSS SECTION

(Looking in the direction of traffic)

AT APPROACH FOOTING

(Sheet 1 of 2)

FILE NAME: H:\P220060 - I-64(Microstation)\041-0085_0086\0410085_0086-008-Bridge Approach Slab Details.dgn



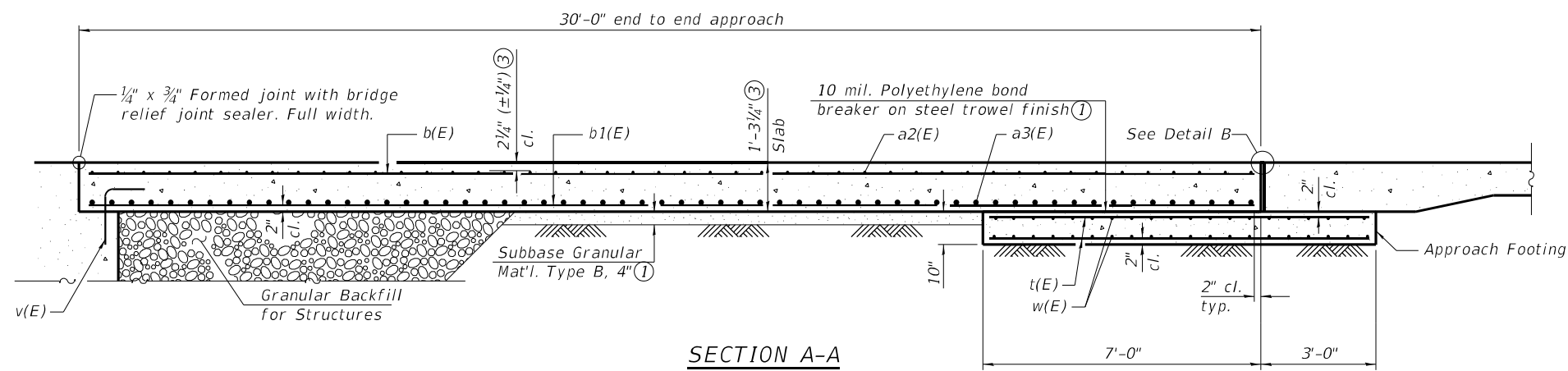
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CHECKED - ETH	CHECKED - ETH	REVISED -
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PLOT DATE = 11/4/2022	CHECKED - ETH	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

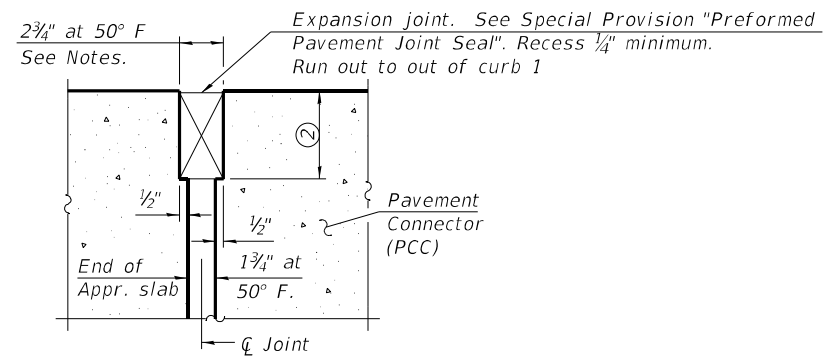
**APPROACH SLAB DETAILS
SN 041-0085 (E.B.) & 041-0086 (W.B.)**

SHEET 8 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	414
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				



SECTION A-A



DETAIL B

BILL OF MATERIAL
(Four Approaches)

Bar	No.	Size	Length	Shape
a2(E)	184	#5	39'-9"	┌───┐
a3(E)	240	#8	39'-4"	───
b(E)	240	#5	29'-8"	───
b1(E)	380	#9	29'-8"	───
b2(E)	8	#4	29'-8"	───
t(E)	320	#4	9'-8"	───
w(E)	160	#5	39'-4"	───
Concrete Structures			Cu. Yd.	49.0
Concrete Superstructure (Approach Slab)			Cu. Yd.	225.4
Reinforcement Bars, Epoxy Coated			Pound	87,380

Notes:

- ① Cost included with Concrete Superstructure (Approach Slab).
- ② Per manufacturer recommendations.
- ③ Proposed dimensions are shown prior to 1/4" Diamond Grinding of overlay and approach slabs.
- ④ The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
- ⑤ Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
- ⑥ Approach footing concrete shall be paid for as Concrete Structures.
- ⑦ The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
- ⑧ Cost of excavation for approach footing included with Concrete Structures.
- ⑨ For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 19.

(Sheet 2 of 2)

FILE NAME: H:\P220060 - I-64(Microstation)\041-0085_0086\0410085_0086-009-Bridge Approach Slab Details.dgn



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	CHECKED - ETH	REVISED -
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PLOT DATE = 11/4/2022	CHECKED - ETH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS
SN 041-0085 (E.B.) & 041-0086 (W.B.)

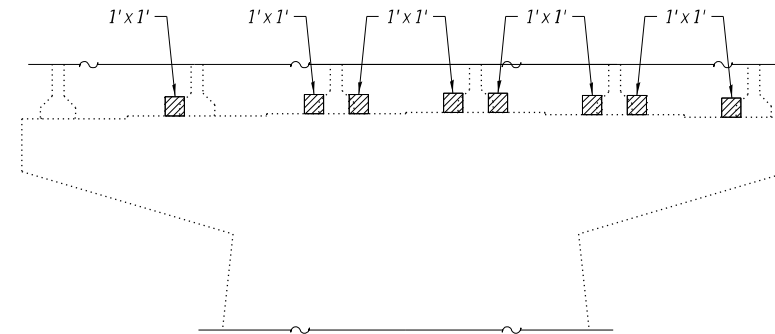
SHEET 9 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				



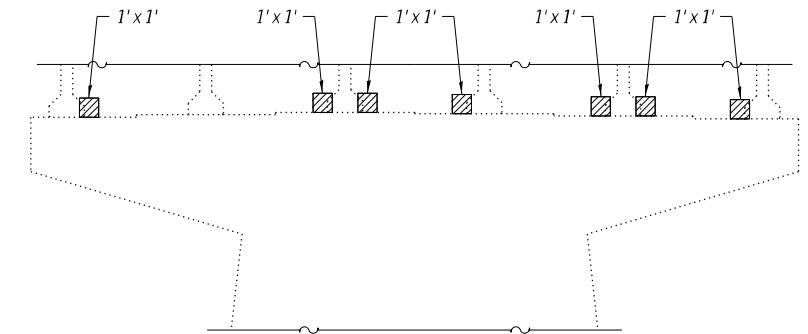
FRONT FACE
(Looking East)

SN 041-0085 EAST ABUTMENT



EAST DIAPHRAGM FACE
(Looking West)

SN 041-0085 PIER

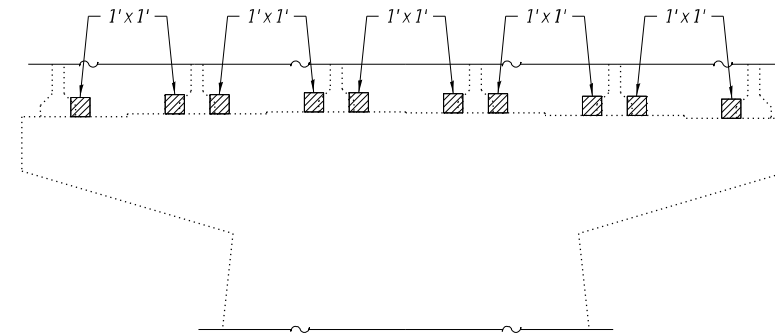


WEST DIAPHRAGM FACE
(Looking East)



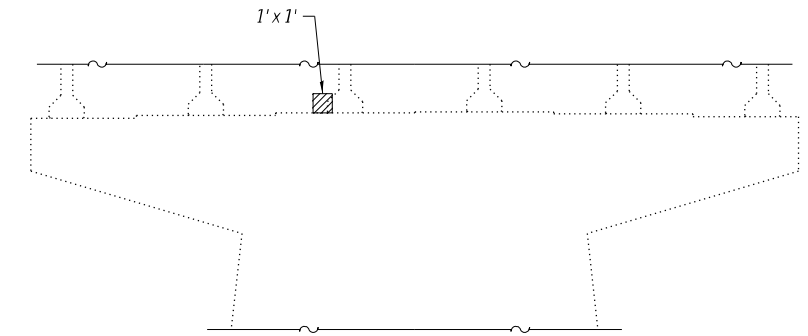
FRONT FACE
(Looking West)

SN 041-0086 WEST ABUTMENT



EAST DIAPHRAGM FACE
(Looking West)

SN 041-0086 PIER

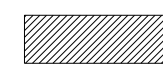


WEST DIAPHRAGM FACE
(Looking East)



FRONT FACE
(Looking East)

SN 041-0086 EAST ABUTMENT

 Structural Repair of Concrete (Depth Equal To or Less Than 5 Inches)

BILL OF MATERIAL

② Structural Repair of Concrete (Depth Equal To or Less Than 5 Inches)	Sq. Ft.	40
--	---------	----

- Notes:
- ① The Resident Engineer will determine final repair locations and quantities in the field after loose and spalled concrete has been removed.
 - ② Including an additional 8 Sq. ft. for areas not visually identified in the field.

FILE NAME: H:\P220060 - I-64\Microstation\041-0085_0086\0410085_0086-01-05-Substructure Repairs.dgn



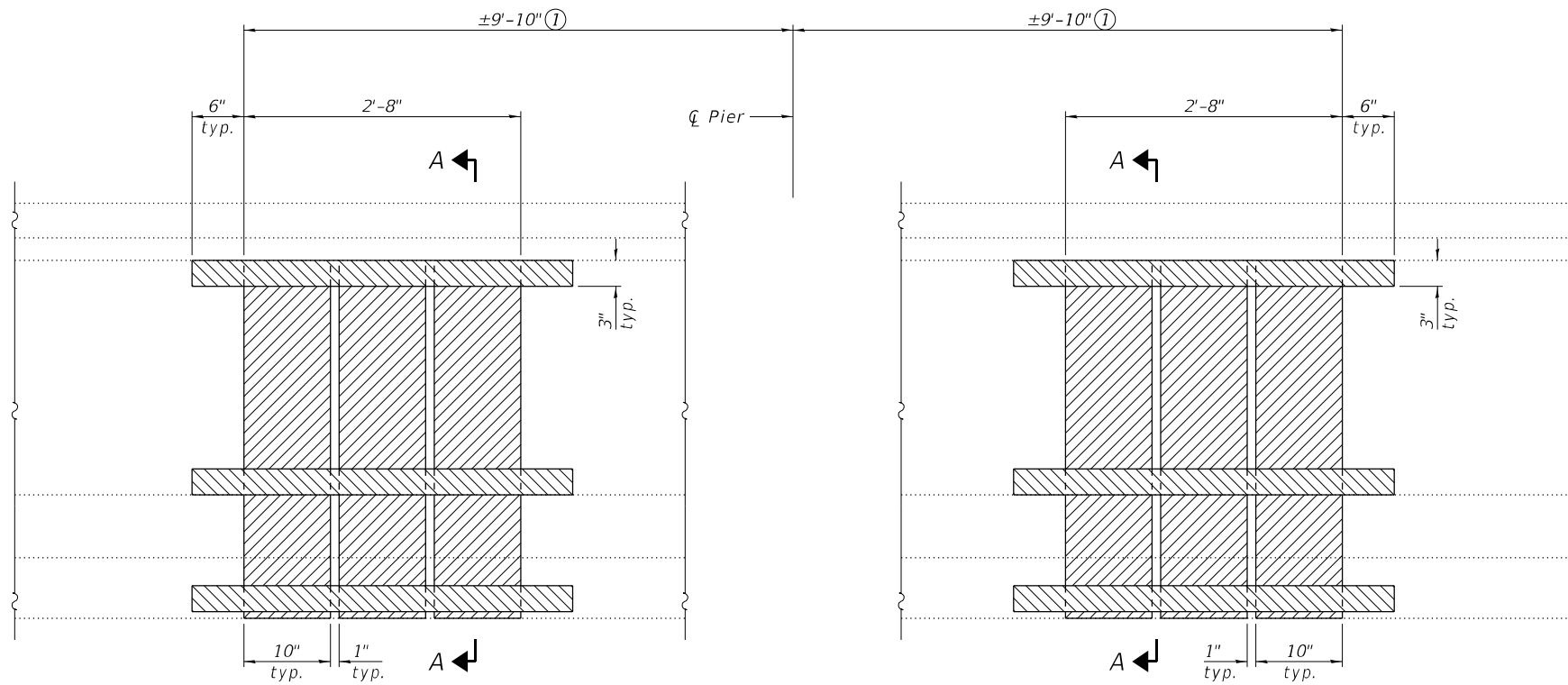
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

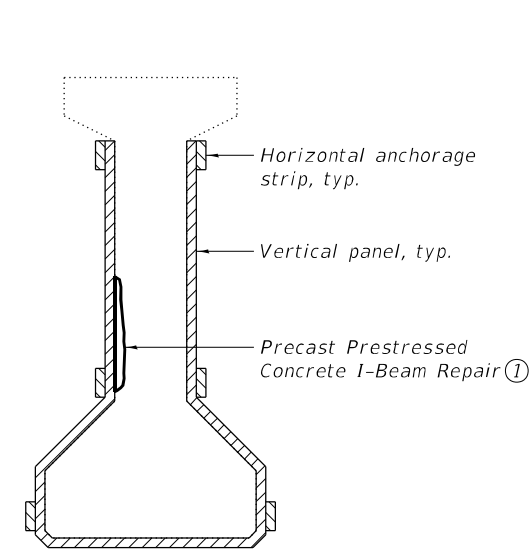
**SUBSTRUCTURE REPAIRS
SN 041-0085 (E.B.) & 041-0086 (W.B.)**

SHEET 10 OF 19 SHEETS

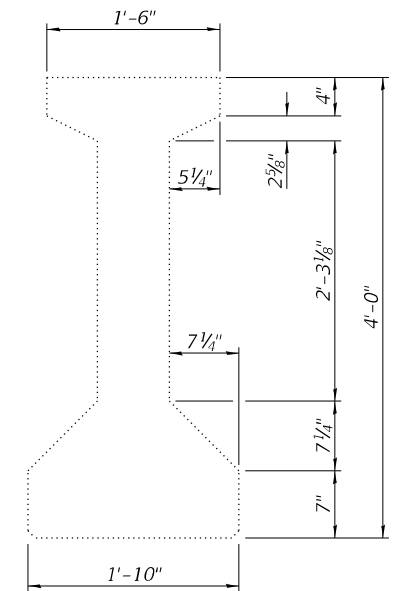
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64	(41-6,41-6-1,41-7)RS-2,BSMART 2023	JEFFERSON	1052	416
CONTRACT NO. 78604			ILLINOIS FED. AID PROJECT	



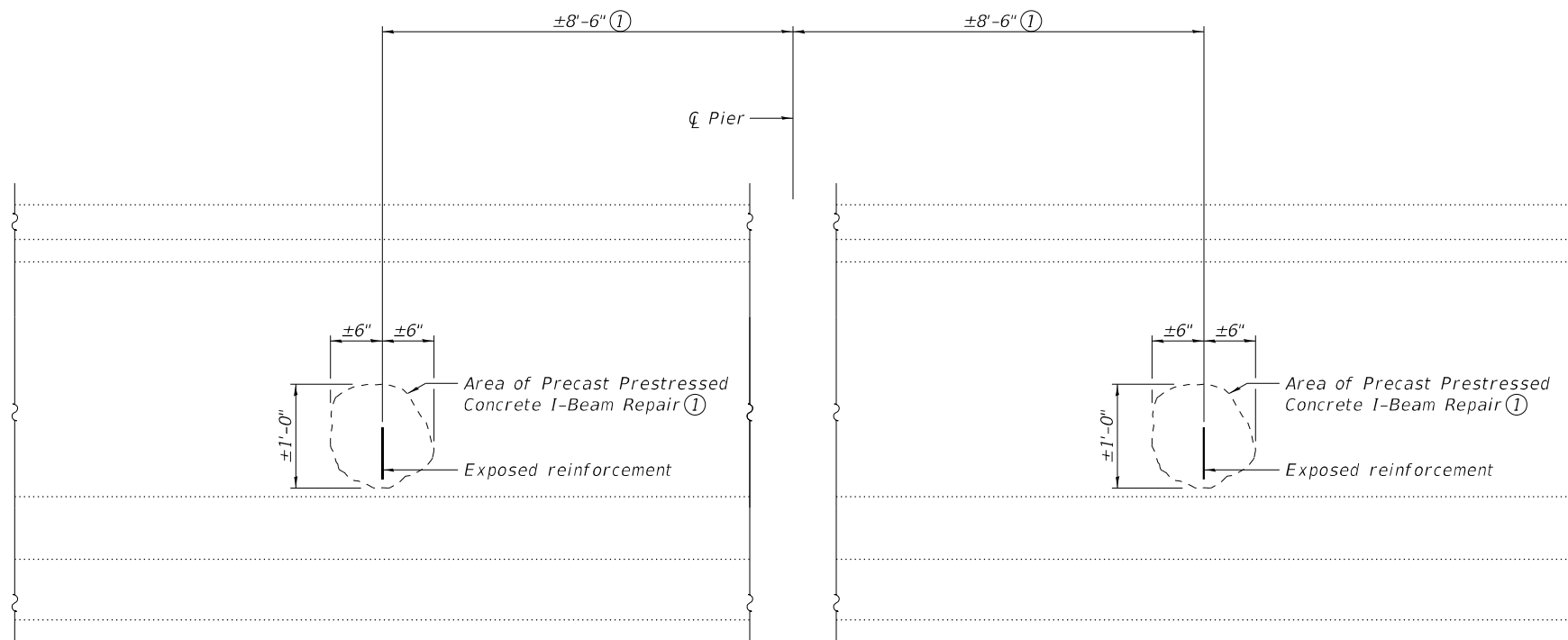
FIBER WRAP BEAM REPAIR ③



SECTION A-A



CROSS SECTION
(Showing dimensions)



BEAM ELEVATION

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	2
Acrylic Coating	Sq. Yd.	13
Fiber Wrap	Sq. Ft.	57

- Notes:
- ① The Resident Engineer will determine final repair locations and quantities in the field after loose and spalled concrete has been removed.
 - ② Two coats of Acrylic Coating shall be placed over the Fiber Wrap repairs.

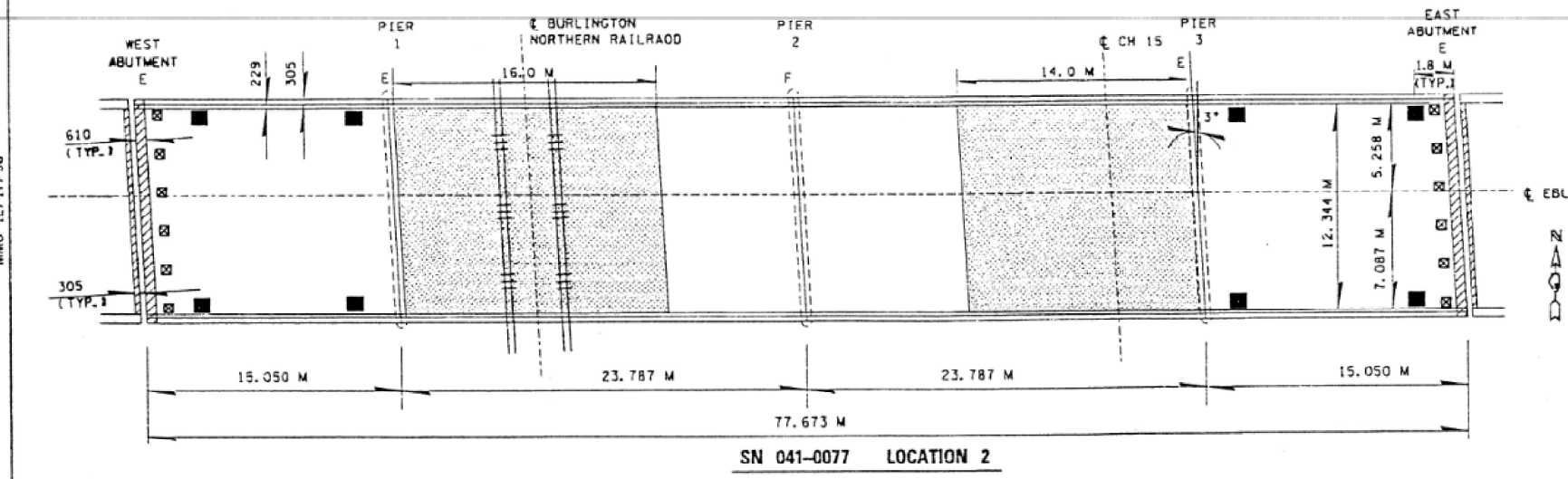
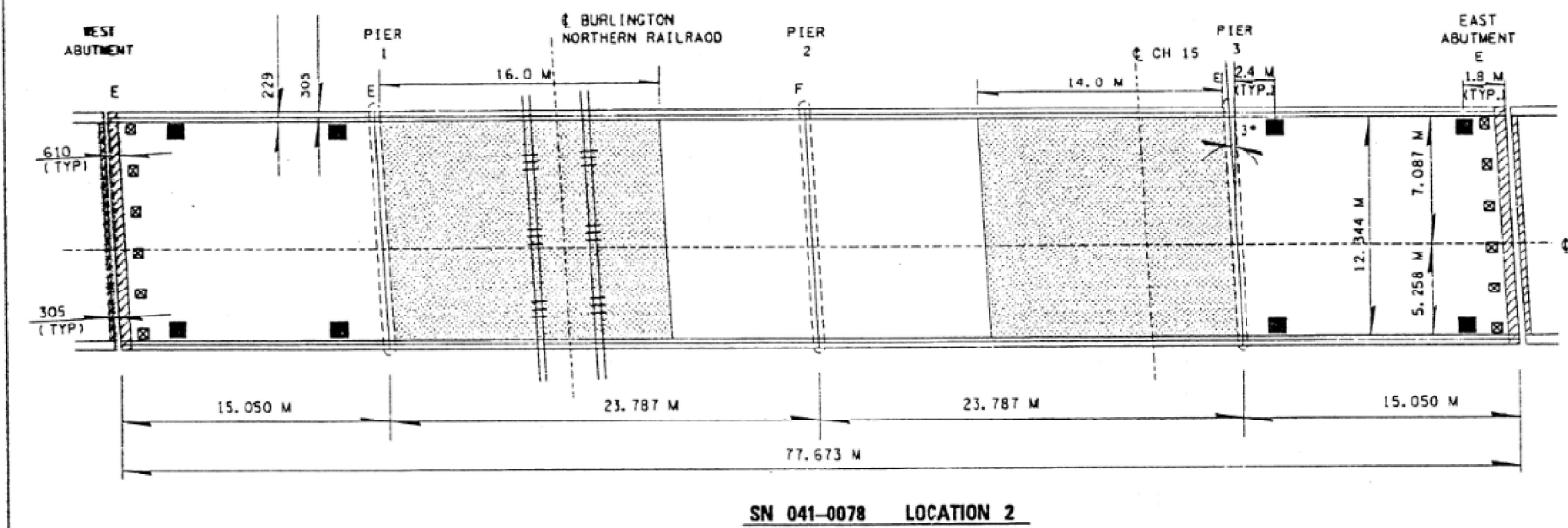
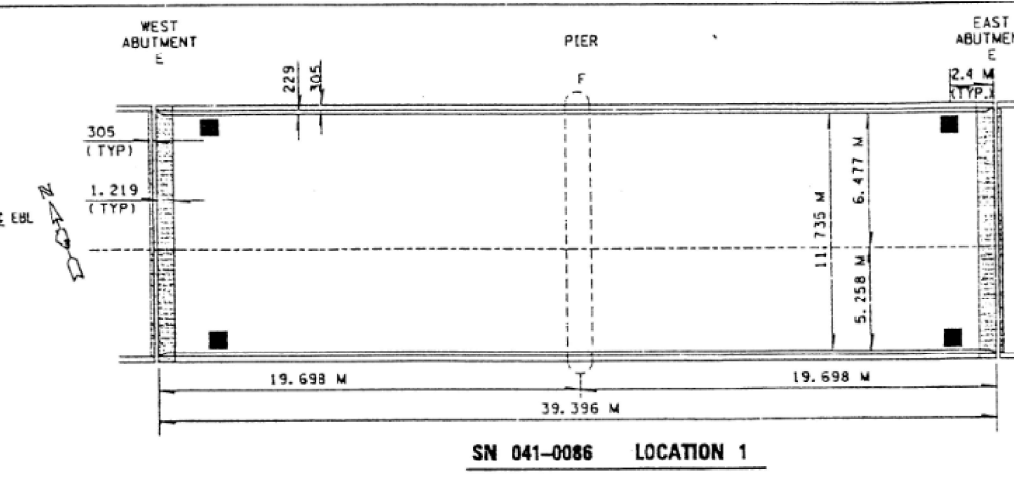
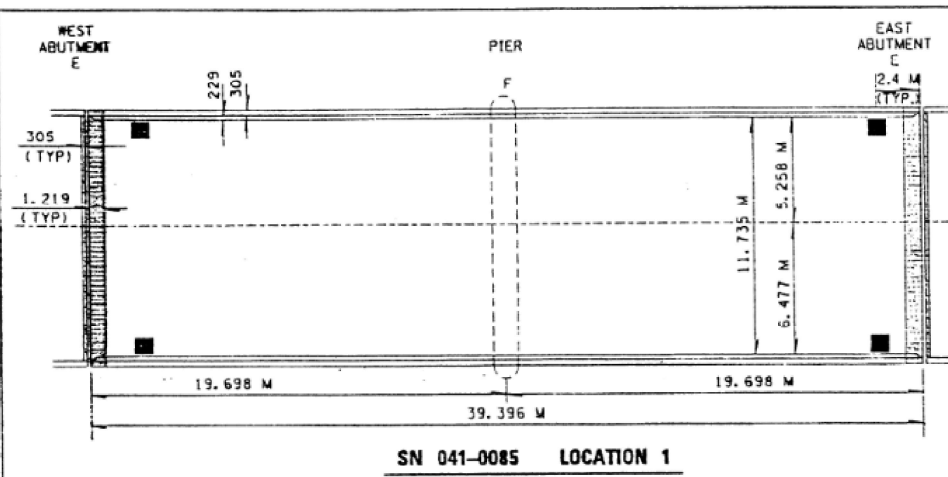
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	417
CONTRACT NO. 78604			ILLINOIS FED. AID PROJECT	

MMO 12/17/98
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 MMO REV: 10-27-98
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 28793311233343636
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 553651585960616263

F.A.I. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64		JEFFERSON	58	5
0-7 BRIDGE DECK REPAIR 1999-1				



LEGEND

- EXPANSION JOINT TO BE REPLACED
- EXPANSION JOINT WITH CONCRETE PROTECTION TO REMAIN IN PLACE
- PROTECTIVE SHIELD
- EXPANSION BEARINGS TO BE REPLACED WITH NEW ELASTOMERIC BEARINGS
- PLUG EXISTING DECK DRAINS

NOTE: NEW MICROSILICA-CONCRETE OVERLAY ON EACH STRUCTURE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING STRUCTURE DETAILS
 SN 041-0085 & SN 041-0086
 SN 041-0077 & SN 041-0078
 LOCATIONS 1 & 2
 DRAWN BY _____
 CHECKED BY _____
 DATE _____

FILE NAME: H:\P220060 - I-64\Microstation\041-0085_0086\0410085_0086-012-Existing_Plans.dgn



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

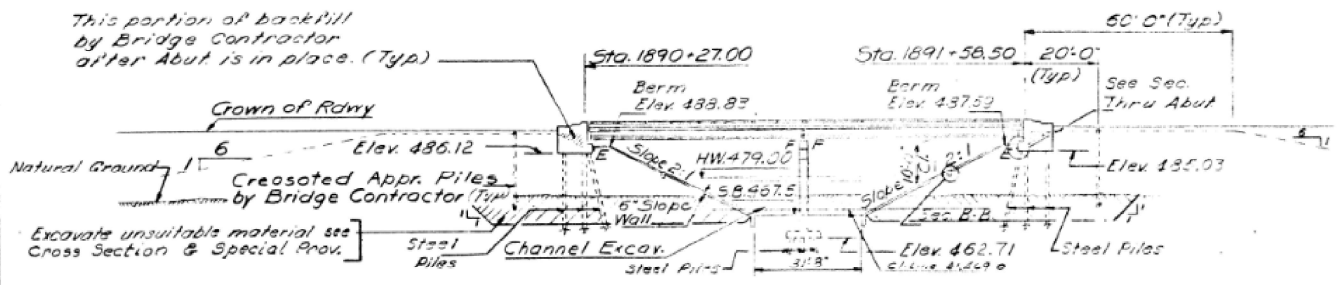
EXISTING PLANS
 SN 041-0085 (E.B.) & 041-0086 (W.B.)
 SHEET 12 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	418
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

B.M.#4: R.R. Spike in 40" Sycamore, 282' Lt. &
Sta. 1891+92, Elev. 477.12.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	41-6B-1	JEFFERSON	36	8
SHEET NO. 11 SHEETS				

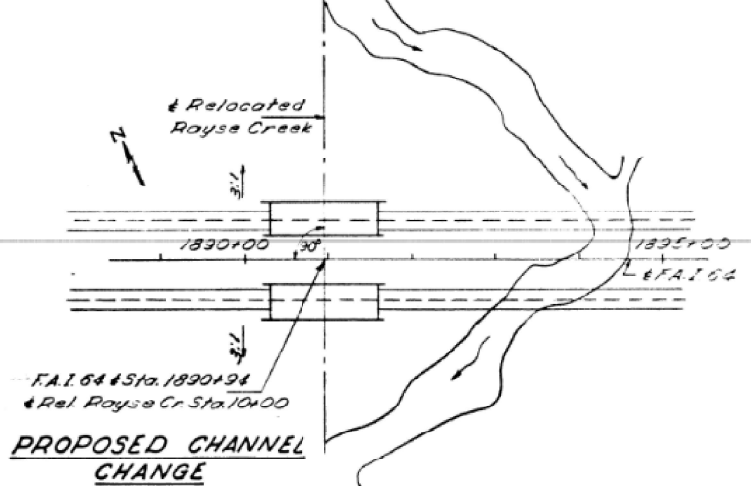
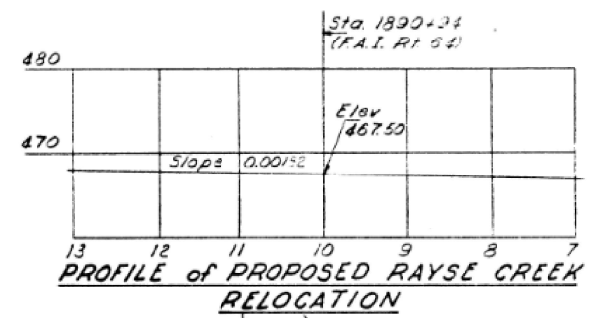


APPROACH PILE DATA

Type: Creosoted
Req'd Length: 30' N.W. Appra.
20' all other approaches.
No. Req'd: 24

STATION 1890+34
BUILT 197 BY
STATE OF ILLINOIS
F.A. RT. 64 SEC 41-6B-1
F.A. PROJ. I-16-64-3(44)
LOADING HS 20 & ALT

NAME PLATE
(See Std. 2113)



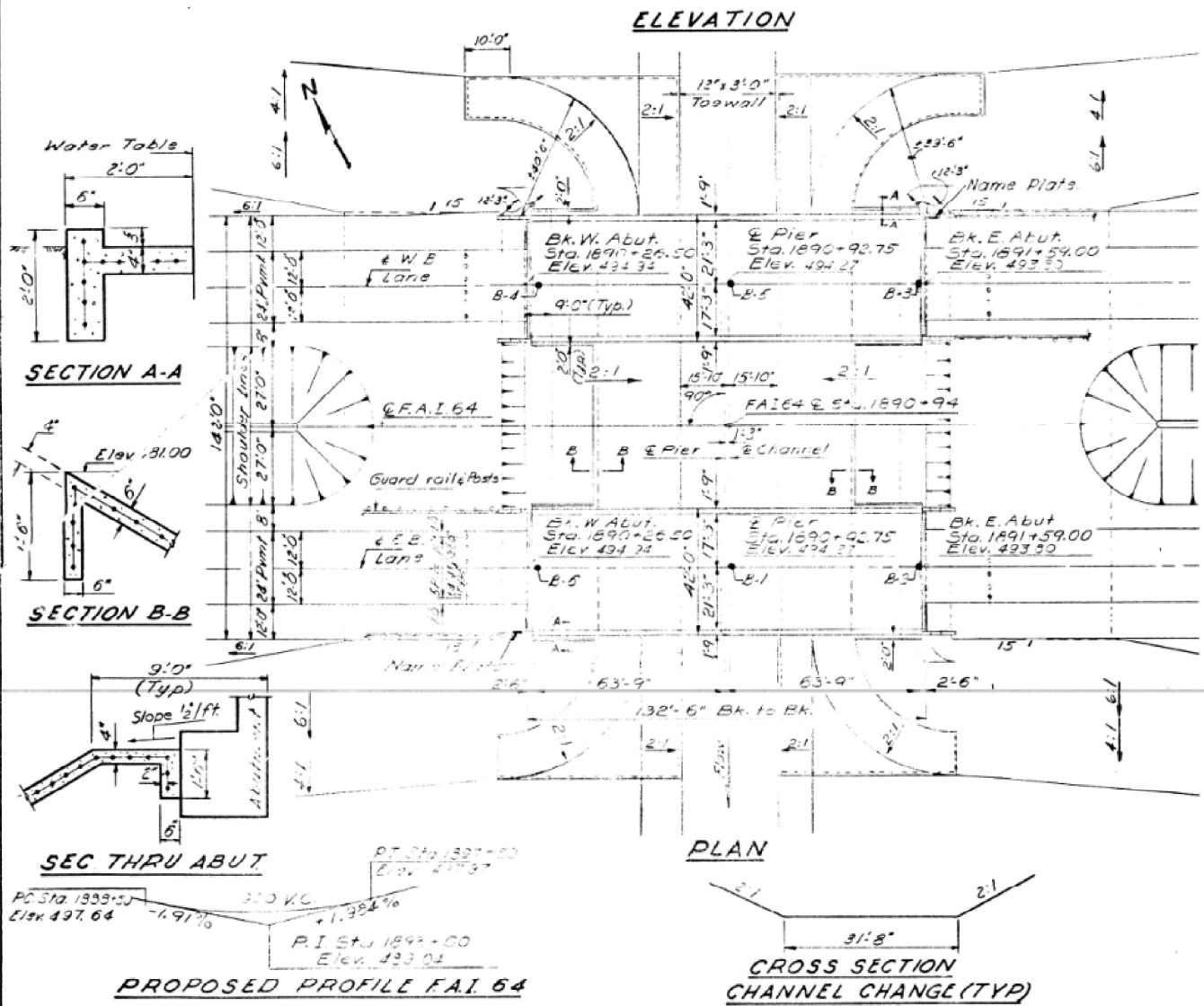
GENERAL NOTES

- All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
- The Basic Lead Silico Chromate paint system shall be used for shop and field painting of structural steel.
- Calculated weight of Structural Steel = 3570 Lbs.
- Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 58# per 100 sq ft.
- Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.
- An alternate strand pattern using Extra High Strength Prestressing strand (270 ksi) is permitted.
- The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
- The contractor shall drive four steel test piles, one each at the No. East Abutment, at the No. West Abutment and at each Pier, all in permanent locations as directed by the Engineer before ordering the remainder of the piles.
- The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Class A Excav. For Abut.	Sq. Yds		162	162
Furnishing & Erecting Precast Prest. Con. I-Beams 48"	Lin. Ft.	1542		1542
Class A Concrete	Sq. Yds	3730	346.9	7199
Structural Steel	Lbs.	1		1
Structural Rolling	Lin. Ft.	517		517
Reinforcement Bars	Lbs.	84310	28450	112760
Name Plates	Each	2		2
Slope Walls (6')	Sq. Yds.			1930
Slope Walls (2')	Sq. Yds.			427
Preformed J. Sealer	Lin. Ft.	173		173
Steel Piles (24" dia)	Lin. Ft.		874	874
Test Piles (24" dia)	Lin. Ft.		2	2
Test Piles (10" dia)	Lin. Ft.		1424	1424
Test Piles Steel (10" dia)	Each		2	2
Creosoted Piles (20' to 30')	Lin. Ft.			360
Creosoted Piles (20' to 35')	Lin. Ft.			180
Class B Excav. For Struct.	Sq. Yds.		50	50

** Includes excavation for slope walls.



DESIGN STRESSES

FIELD UNITS	PRECAST-PRESTR. UNITS
f _c = 1,400 p.s.i. Super	f _c = 5,000 p.s.i.
f _c = 1,400 p.s.i. Sub.	f _{ci} = 4,000 p.s.i.
f _s = 20,000 p.s.i. Reinf.	f _s = 248,000 p.s.i. (Strands 7/16")
f _s = 20,000 p.s.i. Struct.	f _{si} = 173,600 p.s.i. (Strands 7/16")
v _c = 75 p.s.i. Ftgs.	f _s = 20,000 p.s.i. (Reinf.)
n = 10	

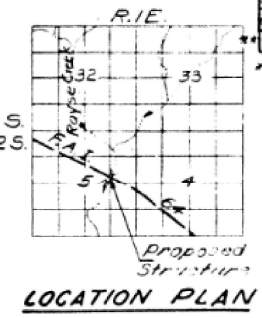
Loading HS 20-44 & Alt.

WATERWAY INFORMATION

Drainage Area 7982 acres
Character: hilly wooded, cultivated.
Required Opening 600 Sq. Ft. (50W)
Proposed Opening 600 Sq. Ft.
Q = 2940 cfs
Ordinary Water Elev. 469.0
Low Water Elev. 466.0

DESIGNED	W. H. King
CHECKED	W. H. King
DRAWN	J. Kessler
CHECKED	W. H. King

NOVEMBER 23 1966
PASSED
APPROVED



GENERAL PLAN & ELEVATION
F.A. RT. 64 OVER RAYSE CREEK
PROJ. I-16-64-3 (44) 59
F.A. RT. 64 SEC. 41-6B-1
JEFFERSON COUNTY
STATION 1890+94

REV W/H 9-19-68 R/W 3-5-70 W/H

FILE NAME: H:\P220060 - I-64\Microstation\041-0085_0086\041-0085-013-Existing Plans.dgn



USER NAME =	DESIGNED -	REVISED -
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	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

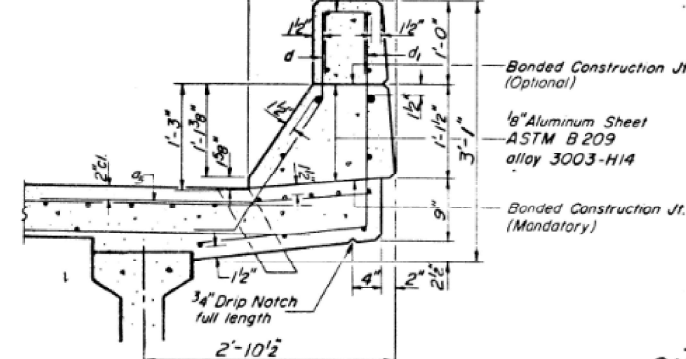
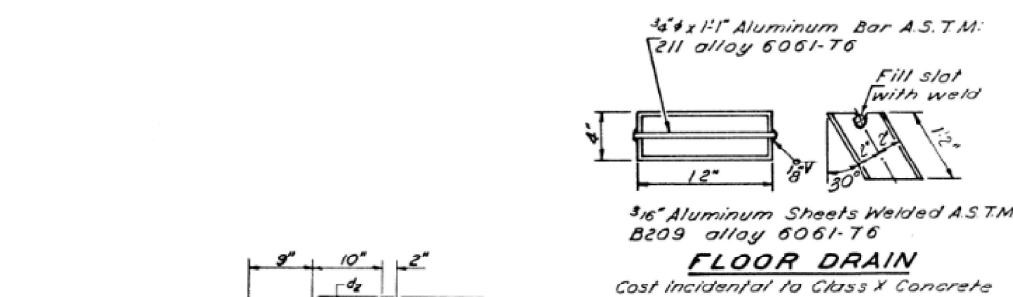
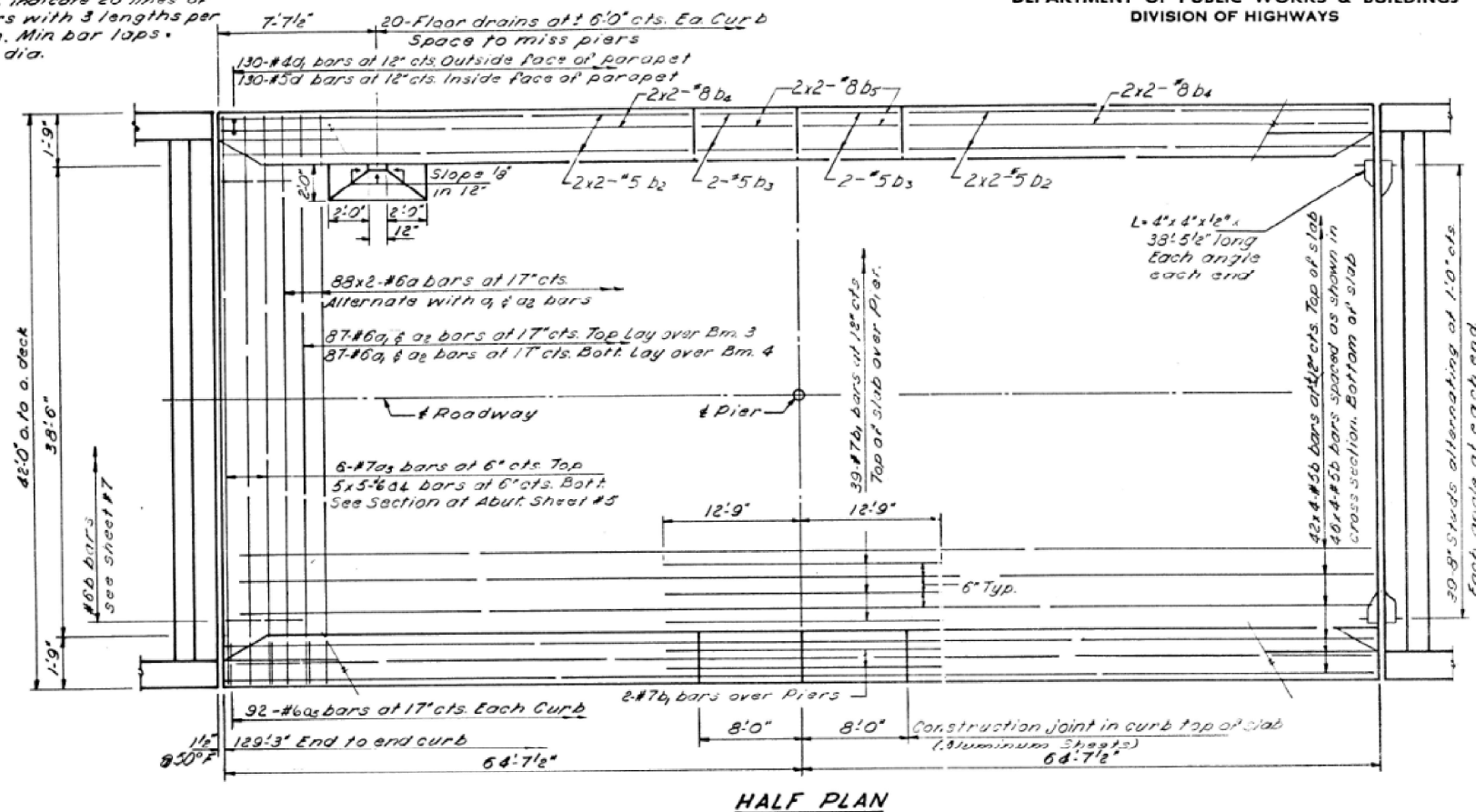
EXISTING PLANS
SN 041-0085 (E.B.) & 041-0086 (W.B.)
SHEET 13 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2,BSMART 2023	JEFFERSON	1052	419
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41-64	6B-1	JEFFERSON	36	11
SHEET NO. 3				
11 SHEETS				

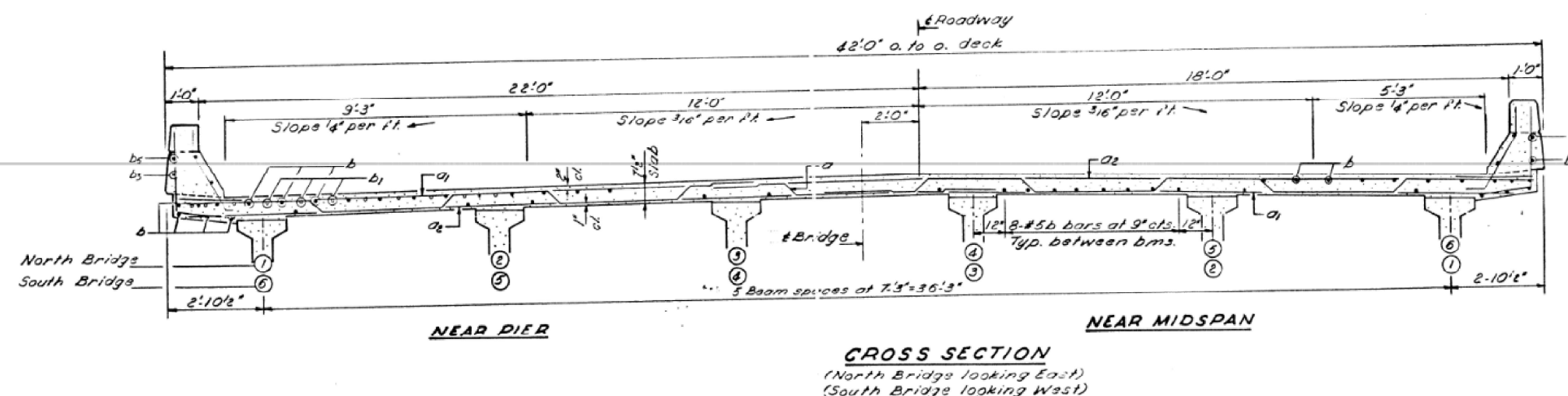
Note:
Bars indicated thus 20x3-#5
etc. indicate 20 lines of
bars with 3 lengths per
line. Min bar laps -
20 dia.



TWO BRIDGES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	352	#6	23'-4"	—
a1	348	#6	18'-3"	—
a2	348	#6	25'-3"	—
a3	24	#7	4'-3"	—
a4	100	#6	6'-8"	—
a5	368	#6	4'-0"	—
b	704	#5	33'-8"	—
b1	86	#7	25'-6"	—
b2	32	#5	28'-3"	—
b3	16	#5	7'-9"	—
b4	32	#8	28'-9"	—
b5	16	#8	7'-9"	—
d	520	#5	4'-5"	L
d1	520	#4	3'-5"	L
m	120	#4	6'-4"	—
m1	30	#6	3'-2"	—
m2	80	#4	5'-6"	—
s	50	#4	11'-2"	—
s1	200	#4	8'-10"	—
x	240	#6	8'-1"	—
Reinf. Bars		Lbs.	82020	
Glass X Concrete		Cu Yds.	356.1	

For locations and details of bars
m, m1, m2, s and s1, see sheets 5 & 7.
The quantities of longitudinal
reinforcement and concrete in
parapets are billed separately
on sh.#4 and are not included above.



DESIGNED: John W. Clark
CHECKED: Peter H. Heng
DRAWN: J. Messler C.N.
CHECKED: Peter H. Heng

EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]

Nov. 7, 1966



SUPERSTRUCTURE
NORTH & SOUTH BRIDGES
F.A.I. RT 64 SEC. 41-6B-1
JEFFERSON COUNTY
STATION 1890+94

Rev W/H 9-19-68

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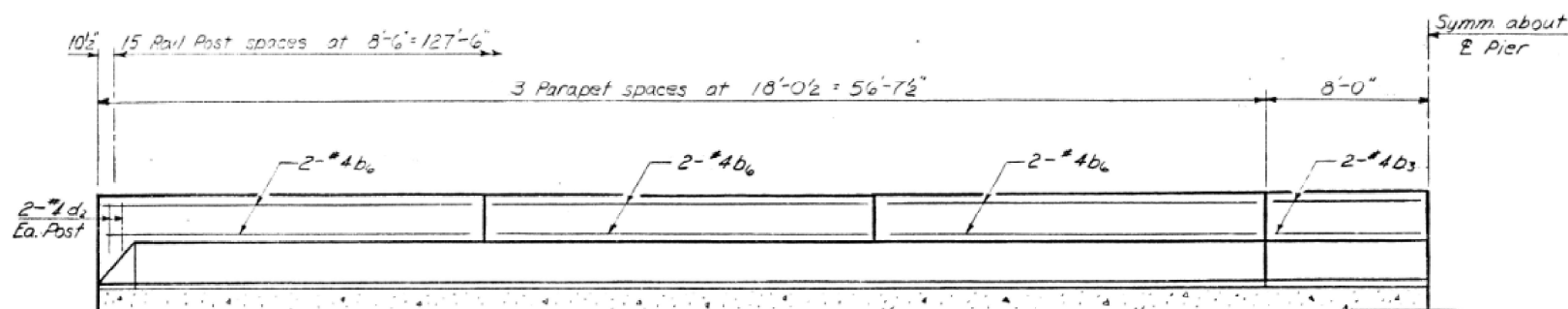
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

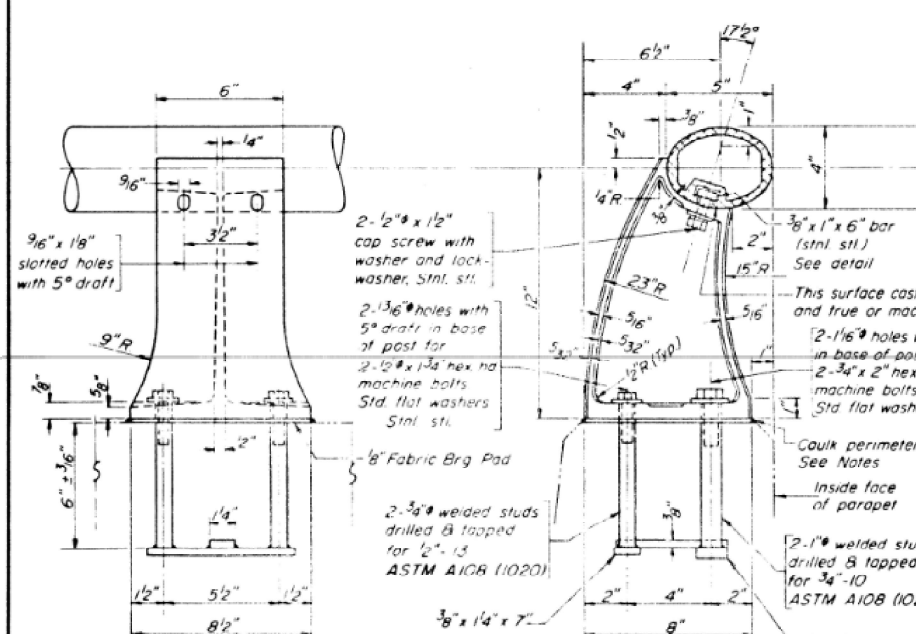
EXISTING PLANS
SN 041-0085 (E.B.) & 041-0086 (W.B.)

SHEET 14 OF 19 SHEETS

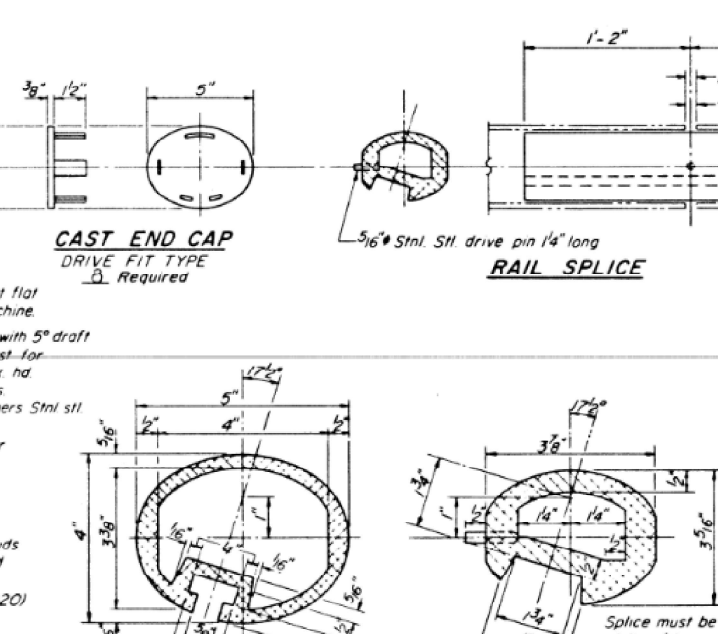
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64	(41-6,41-6-1,41-7)RS-2,BSMART 2023	JEFFERSON	1052	420
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				



HALF INSIDE ELEVATION

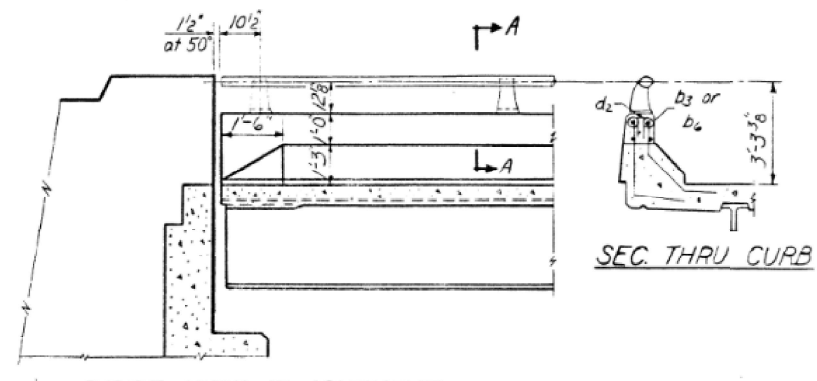


RAIL POST DETAILS



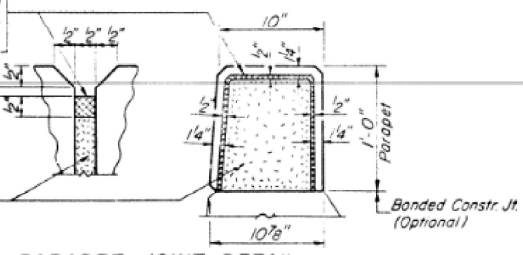
CAST END CAP
DRIVE FIT TYPE
Required

RAIL SPLICE



INSIDE VIEW AT ABUTMENT

SEC. THRU CURB



PARAPET JOINT DETAIL

PARAPETS & RAILS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d1	32	#5	7'-9"	—
d4	96	#5	18'-6"	—
d2	128	#1	2'-1"	—
Reinforcement Bars Lbs 2290				
Class X Concrete Cu Yds 16.9				
Aluminum Railing Lin Ft 517				

NOTES:
All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.
All joints in rail shall be spliced per detail.
Provide 1-1/8" and 2-1/8" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade-high spots shall be ground and low spots shimmed.
Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post.
Aluminum alloy rail shall conform to ASTM B-221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min. tensile 38 ksi, and elongation of 10% in 2 inches

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R-17 4.22.68

ALUMINUM RAILINGS
NORTH & SOUTH BRIDGES
FAI RT. 64 SEC 41-1/2B-1
JEFFERSON COUNTY
STA 1690+34

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
SN 041-0085 (E.B.) & 041-0086 (W.B.)

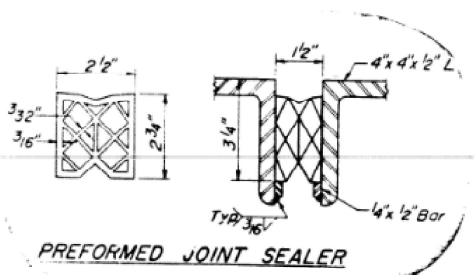
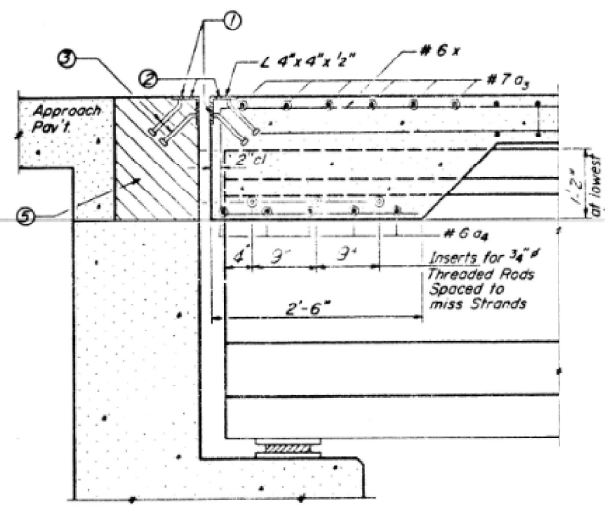
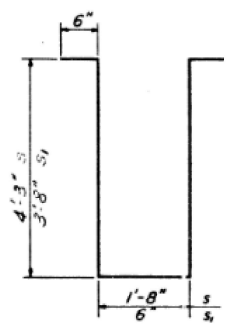
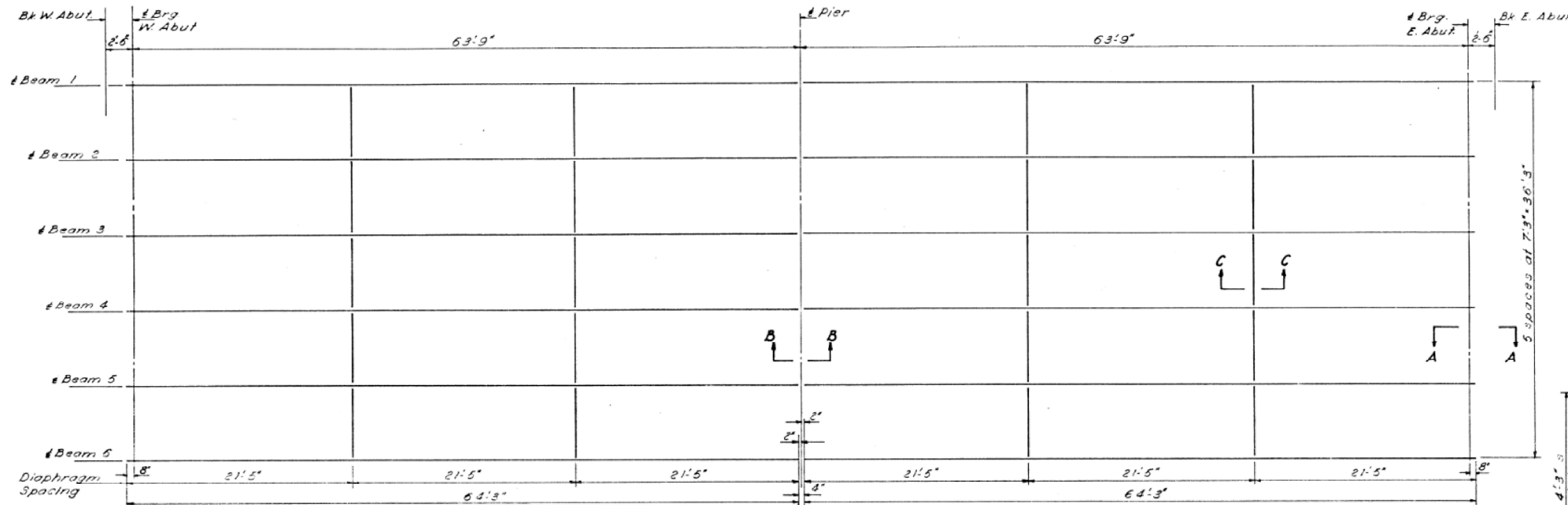
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CONTRACT NO. 78604				

SHEET 15 OF 19 SHEETS

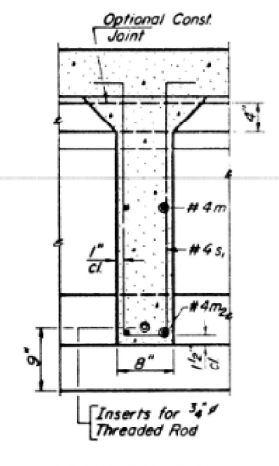
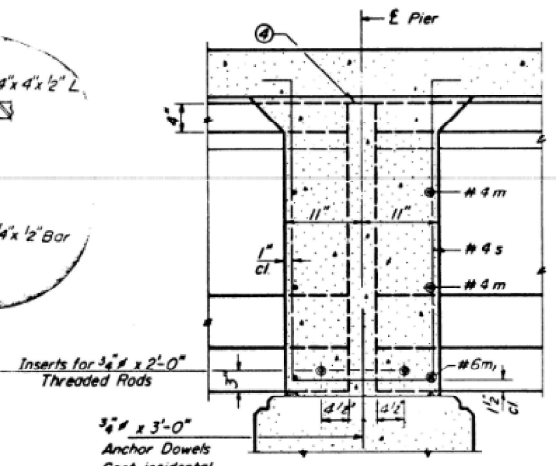
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 // SHEETS
64	41-6B-1	JEFFERSON	36	13	
FED. ROAD DIST. NO. 1					



See Sheet # 7 for other detail of Preformed Joint Sealer



- 1/8" holes at 12" cts for 3/8" bolts set on normal gage line. All bolts shall be burned, sawed or chipped off flush with the back of angles after forms are removed.
- 1/8" vent holes at 12" cts set on 1 1/8" gage line.
- 3/8" x 8" CR 1020 STL granular or solid flux filled headed studs—automatically end welded. (alternate at 1'-0" cts)
- Pour diaphragm flush with top of beam. Concrete in slab above this line shall be placed not less than 45 minutes nor more than 90 minutes after diaphragm has been poured.
- Hatched area to be poured after Superstructure forms have been removed. Quantity of Class X Concrete included with Superstructure.

DESIGNED: *[Signature]*
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DRAWN: *[Signature]*
CHECKED: *[Signature]*

EXAMINED: *[Signature]*
PASSED: *[Signature]*
APPROVED: *[Signature]*

PI-2J 1-27-66

Rev. W/T 9-19-68

FRAMING DETAILS
NORTH & SOUTH BRIDGES
F.A.I. RT 64 S.C. 41-6B-1
JEFFERSON COUNTY
STATION 1890+94

FILE NAME: H:\P220060 - I-64\Microstation\041-0085_0086\0410085_0086-016-Existing_Plans.dgn

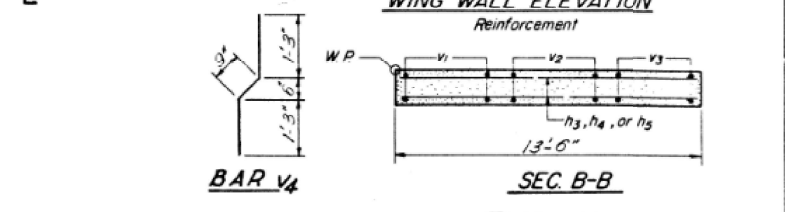
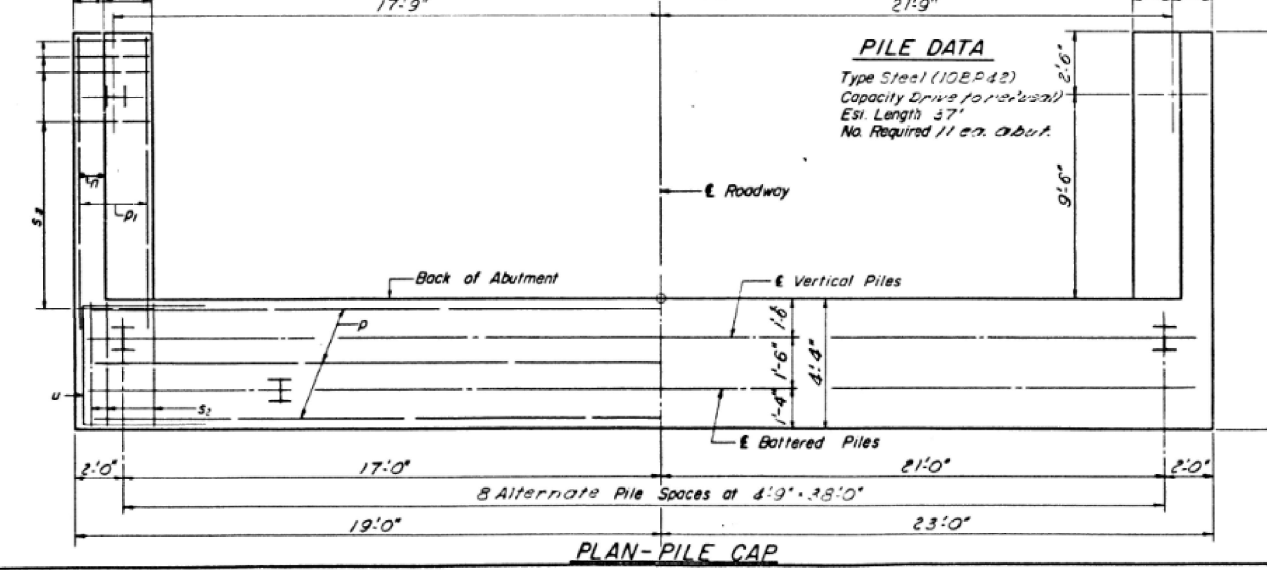
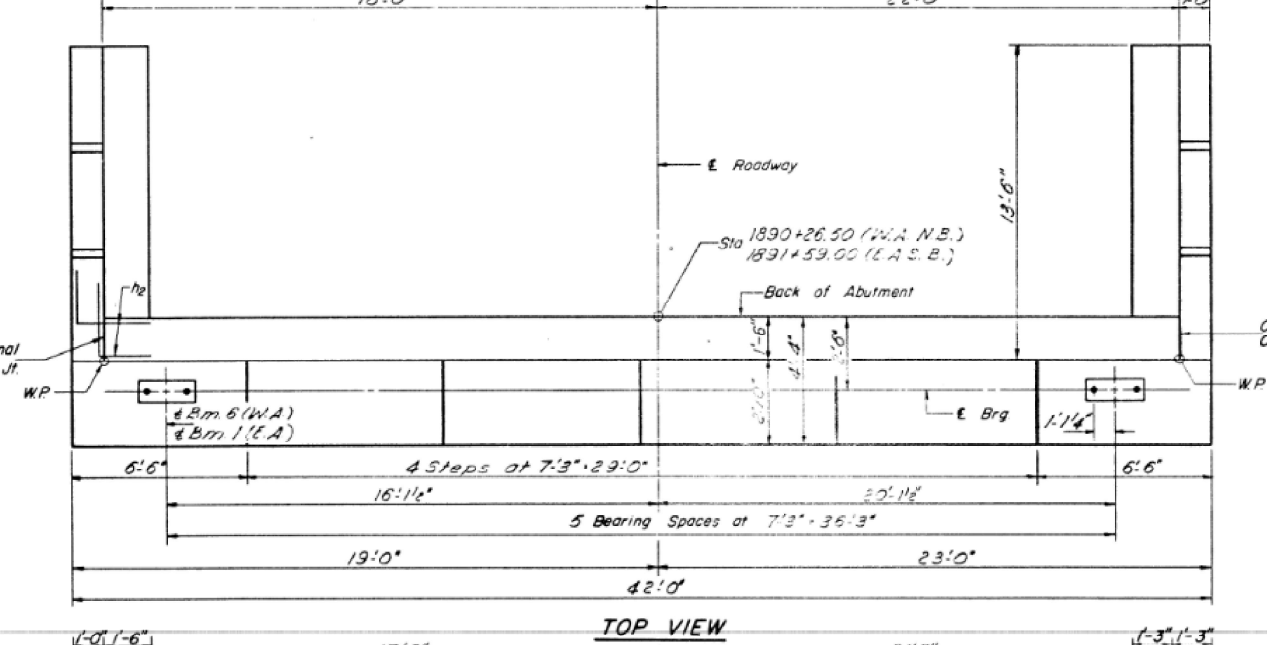
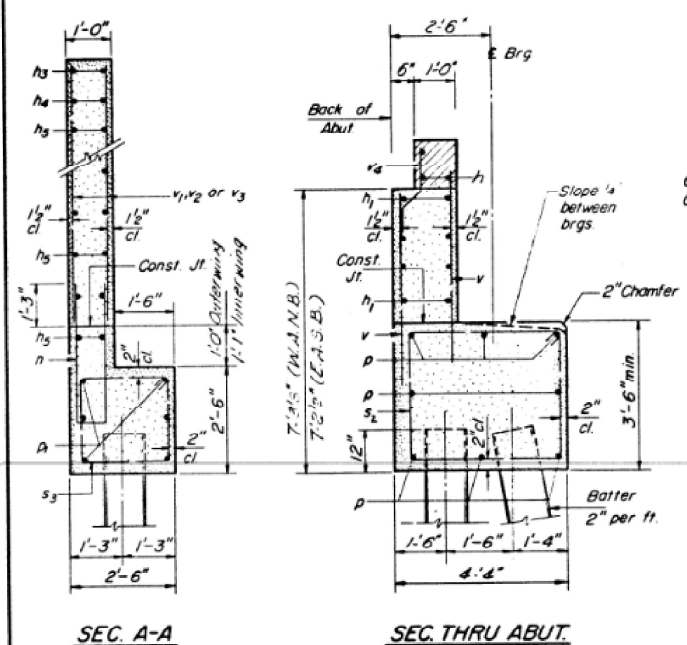
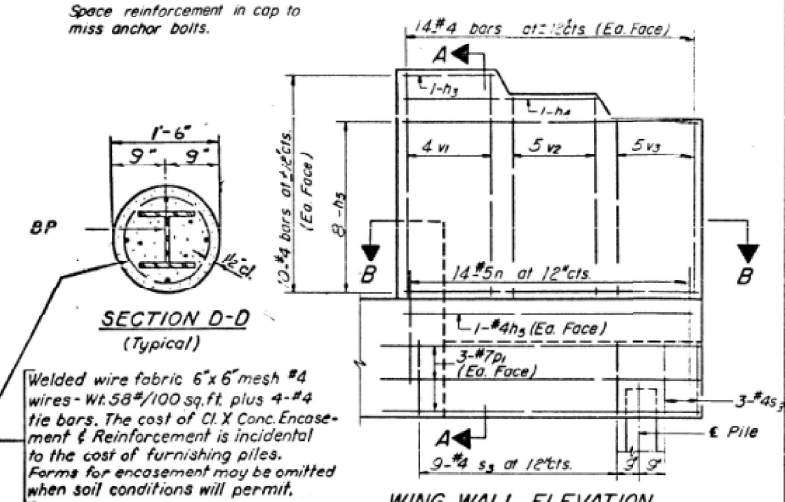
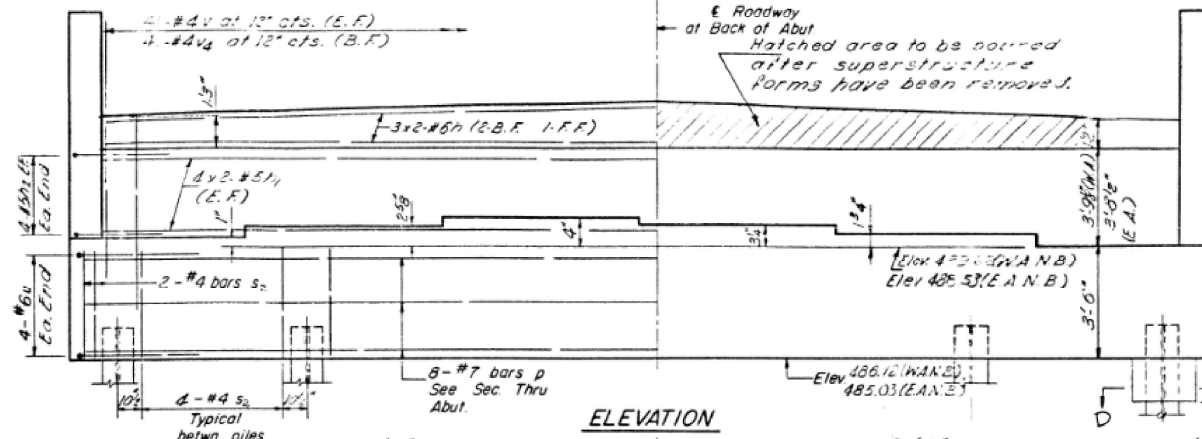
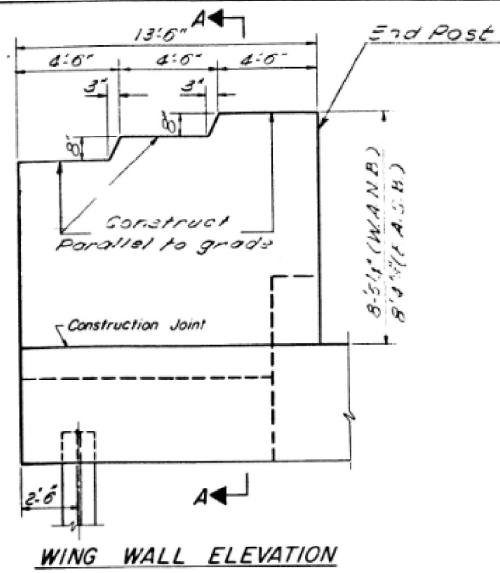


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
SN 041-0085 (E.B.) & 041-0086 (W.B.)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2,BSMART 2023	JEFFERSON	1052	422
CONTRACT NO. 78604				



PILE DATA

Type: Steel (108P42)
Capacity: Drive (per test)
Est. Length: 37'
No. Required: 11 ea. abut.

TWO ABUTMENTS

BILL OF MATERIAL

Bar No.	Size	Length	Shape
h	#6	13'-2"	—
h1	#5	20'-2"	—
h2	#5	2'-2"	—
h3	#4	4'-2"	—
h4	#4	3'-2"	—
h5	#4	13'-3"	—
n	#5	7'-2"	U
p	#7	41'-2"	—
pl	#7	13'-3"	—
s2	#4	15'-1"	□
s3	#4	9'-5"	□
u	#6	3'-1"	—
v	#4	5'-3"	—
v1	#4	8'-1"	—
v2	#4	7'-6"	—
v3	#4	6'-10"	—
v4	#4	3'-3"	—

Class X Concrete Cu Yds 33.1
Reinforcement Bars Lbs 2,202
Steel Piles (108P42) Lin Ft 312

DESIGNED: [Signature]
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DRAWN: [Signature]
APPROVED: [Signature]

Nov 23 1966

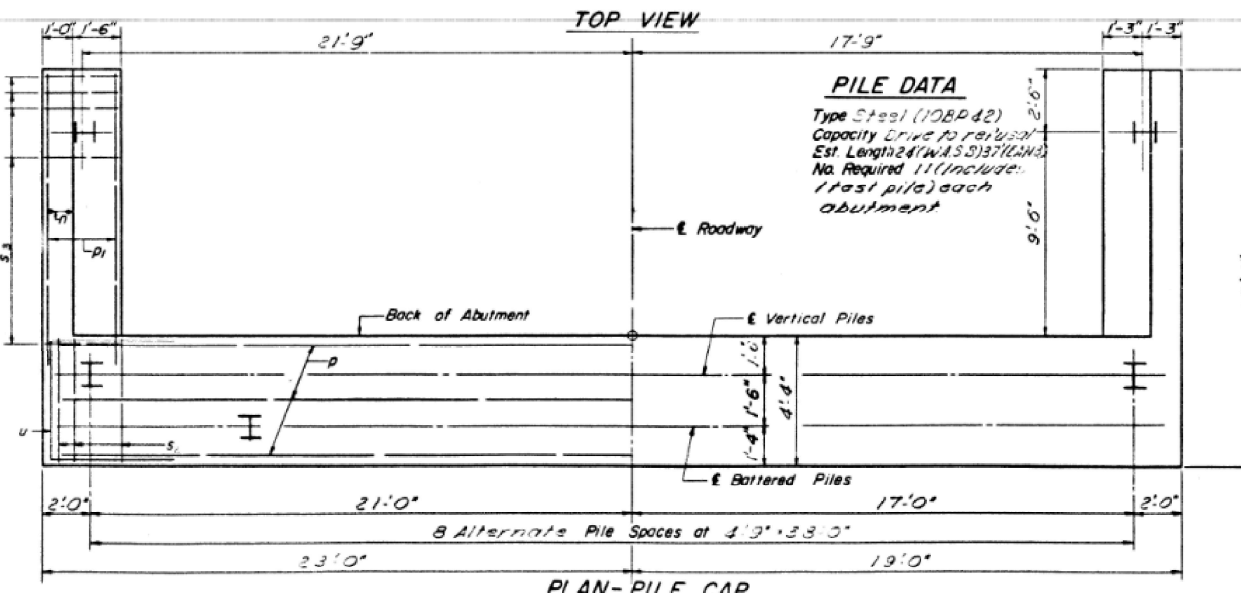
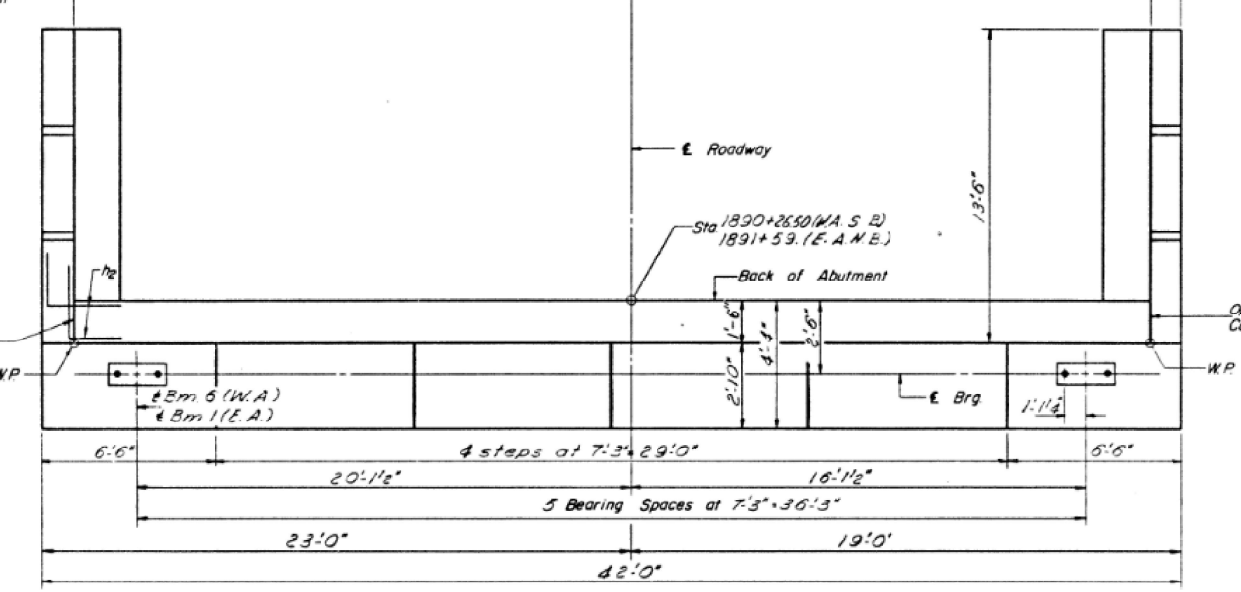
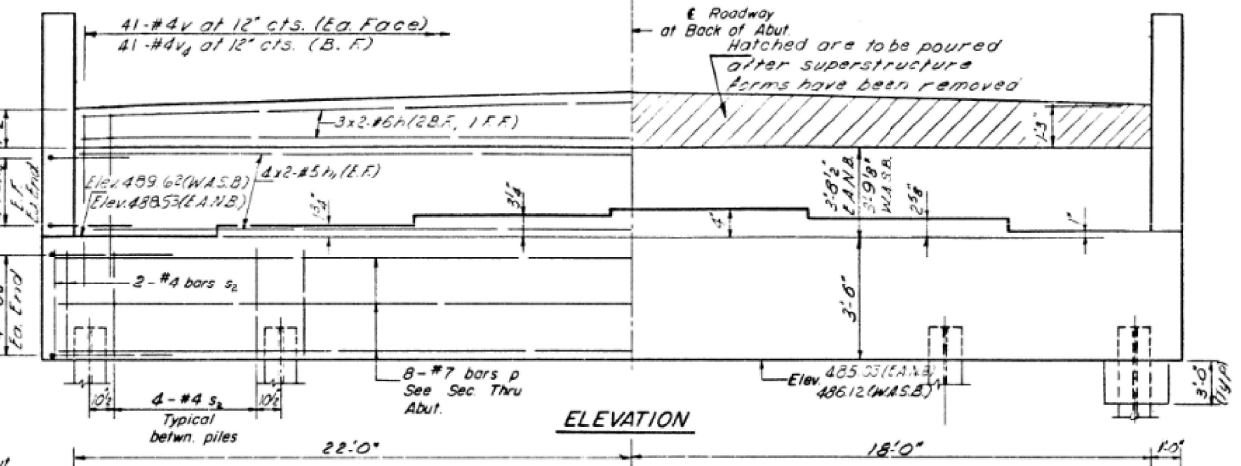
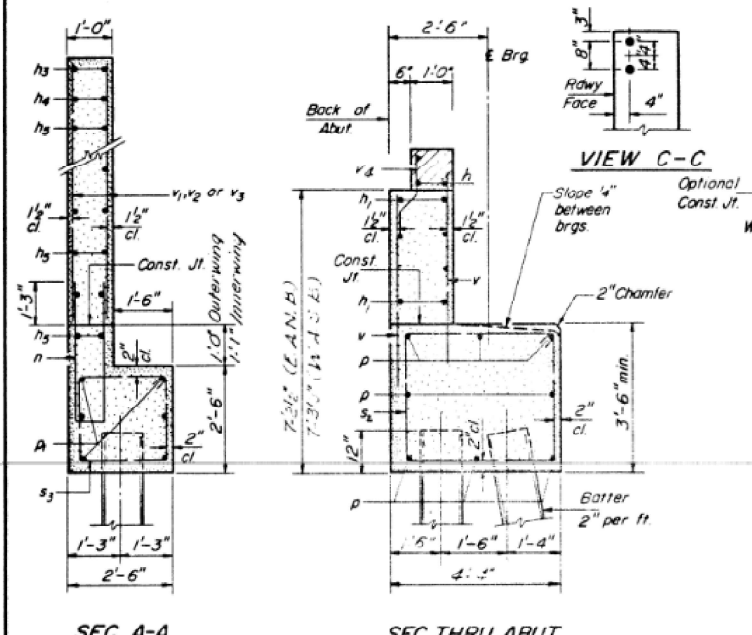
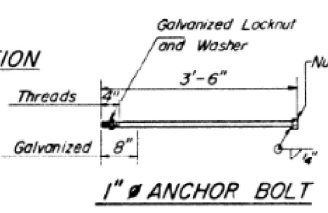
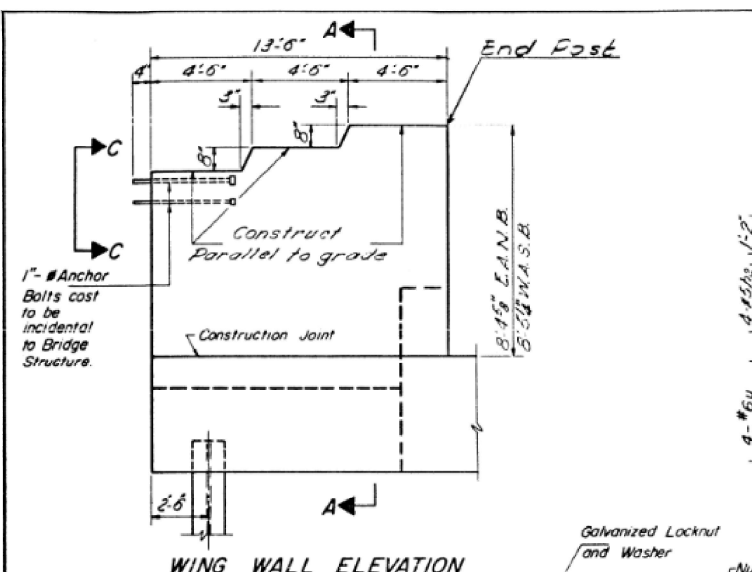
A-9 2-1-66
Rev WH 9-19-68

**WEST ABUTMENT NO BRIDGE
EAST ABUTMENT SO BRIDGE
F.A.I. RT. 64 SEC. 41-6B-1
JEFFERSON COUNTY
STATION 1890+94**

FILE NAME: H:\P220060 - 1-64\Microstation\041-0085_0086\017-Existing_Plans.dgn

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

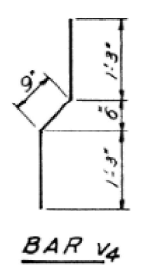
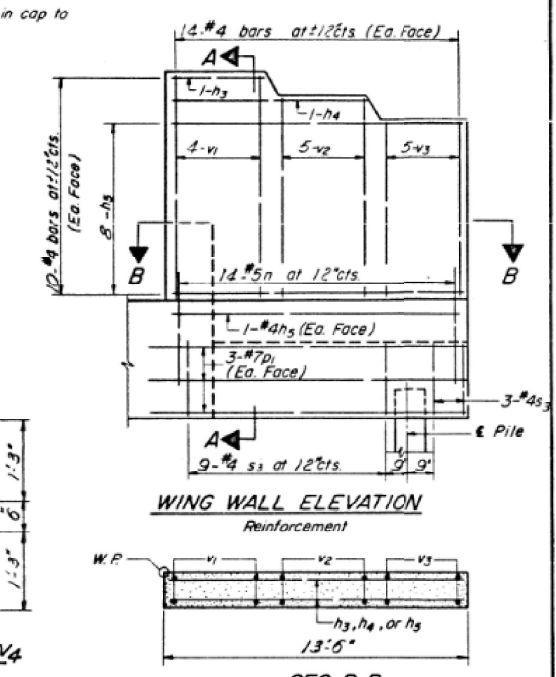
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	4B-1	JEFFERSON	36	17
SHEETS //				



PILE DATA

Type Steel (10BP42)
Capacity Drive to refusal
Est. Length 24 (W.A.S.S) 37 (E.A.S.S.)
No. Required 11 (include 1 test pile) each abutment

Space reinforcement in cap to miss anchor bolts.



SEC. B-B
TWO ABUTMENTS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	12	#6	19'-3"	
h1	32	#5	20'-6"	
h2	32	#5	2'-0"	
h3	6	#4	4'-2"	
h4	3	#4	9'-3"	
h5	72	#4	13'-3"	
n	56	#5	7'-9"	U
p	16	#7	4'-3"	
r	34	#7	19'-3"	
s2	72	#4	15'-1"	□
s3	43	#4	9'-2"	□
u	16	#6	3'-11"	□
v	164	#4	2'-9"	
v1	32	#4	5'-0"	
v2	40	#4	7'-0"	
v3	40	#4	6'-0"	
v4	52	#4	3'-3"	
Class X Concrete				Cu Yds 341
Reinforcement Bars				Lbs 6732
Piles (10BP42)				Lin Ft 510
Test Piles Steel (10BP42)				Ea 2

EAST ABUTMENT NO BRIDGE
WEST ABUTMENT SO. BRIDGE
F.A.I. RT. 64 SEC. 41-6B-1
JEFFERSON COUNTY
STATION 1890+94.

DESIGNED: [Signature]
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DRAWN: [Signature]
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EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]

Nov 22 1966

A-9 2-1-66
Rev W/T 9-19-68

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
SN 041-0085 (E.B.) & 041-0086 (W.B.)

SHEET 18 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2,BSMART 2023	JEFFERSON	1052	424
CONTRACT NO. 78604				

ILLINOIS FED. AID PROJECT

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

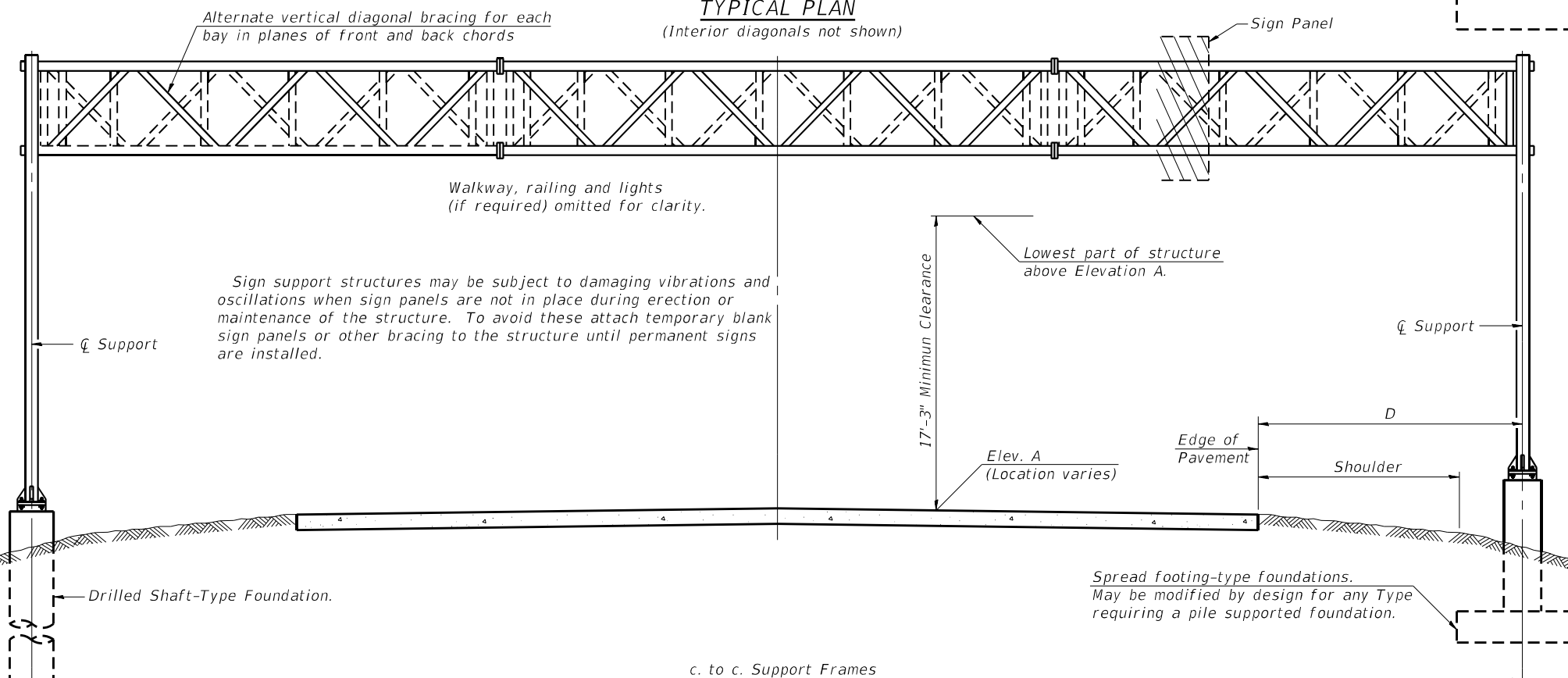
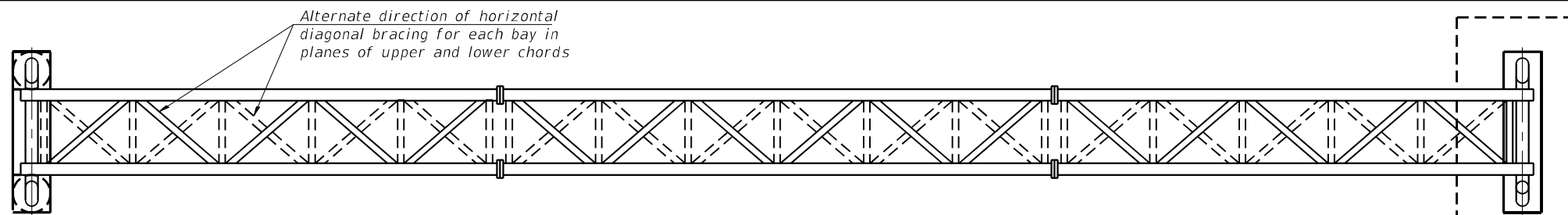
GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.



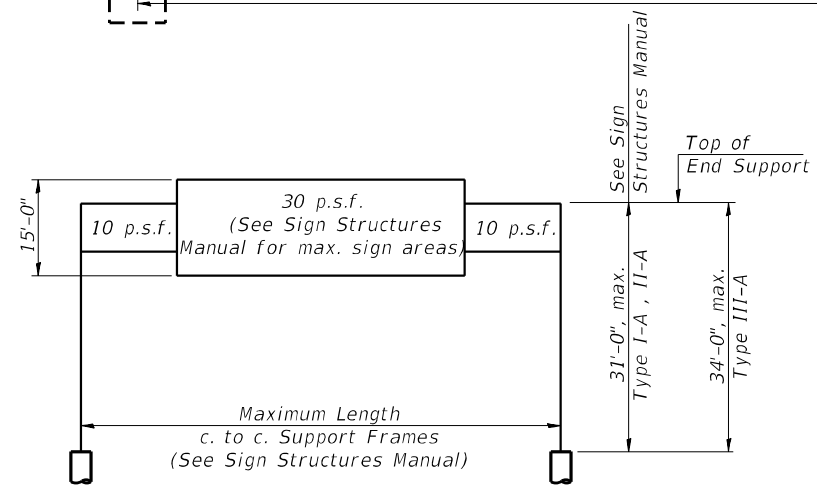
TYPICAL ELEVATION
(Looking at Face of Signs**)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area (Sq. Ft.)
9S0411064R070.0	2321+70	I-A	88'-0"	461.59	32'-0"	14'-8"	176

**Looking upstation for structures with signs both sides.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	88
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	9.9

05-A-1

2-17-2017



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PLOT SCALE =	CHECKED - KBC	REVISED -
PLOT DATE = 11/3/2022	DRAWN - NBB	REVISED -
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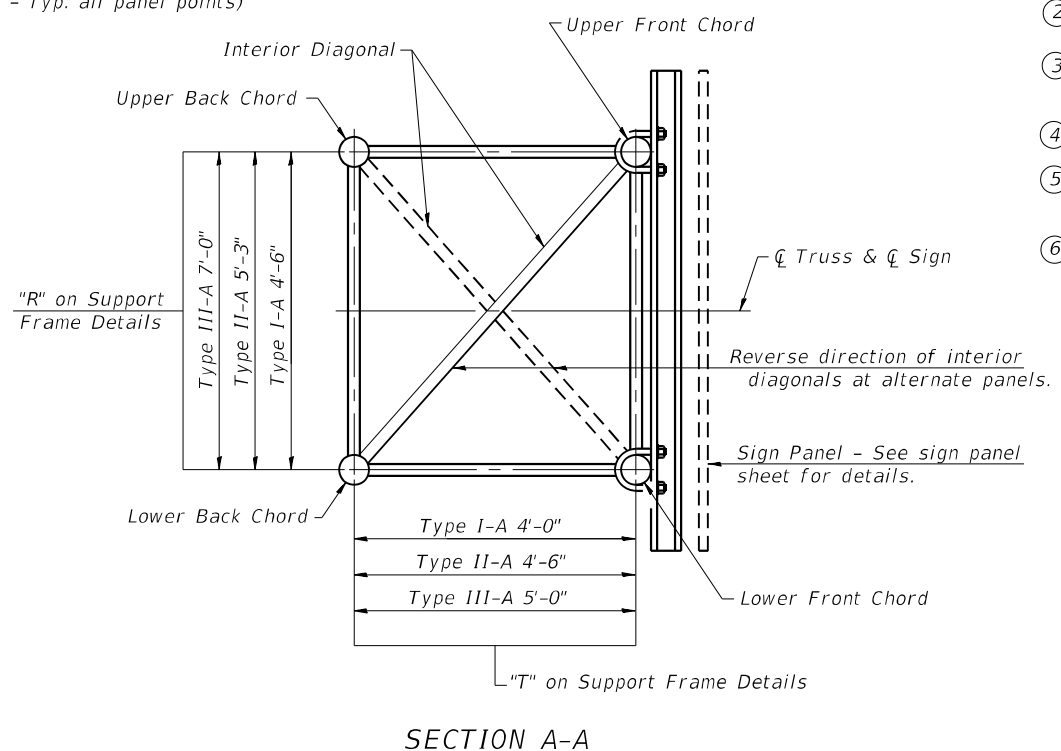
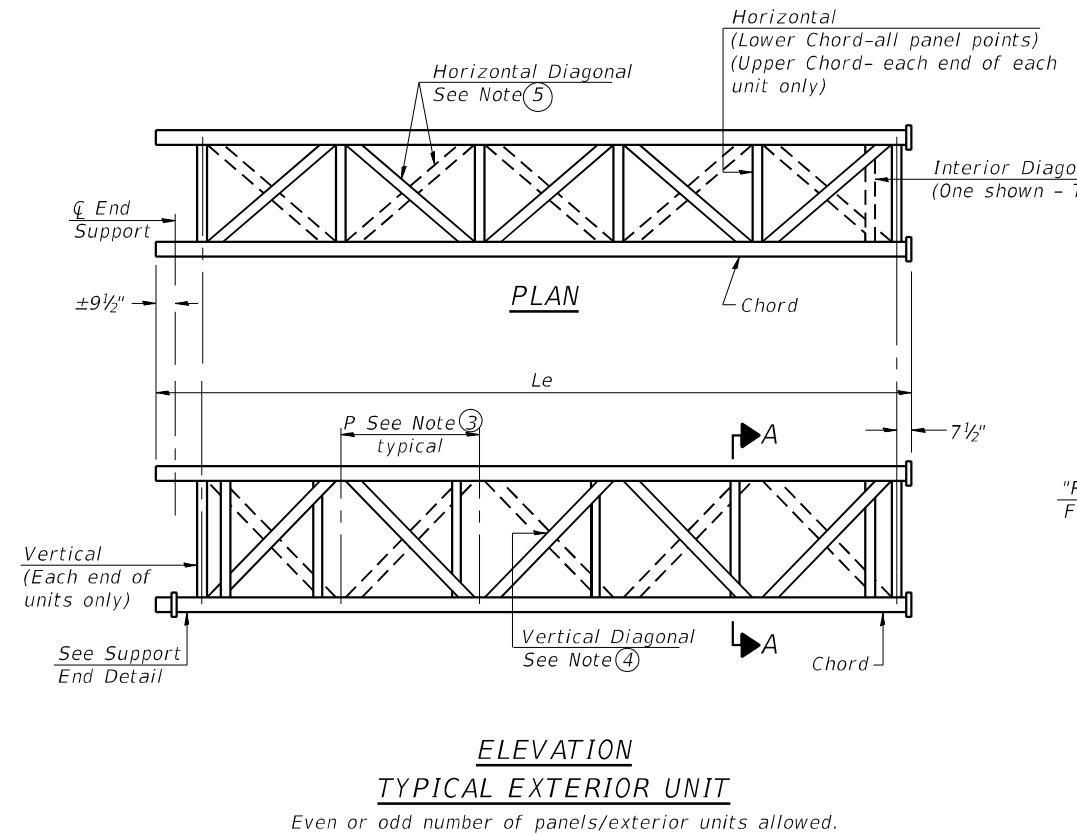
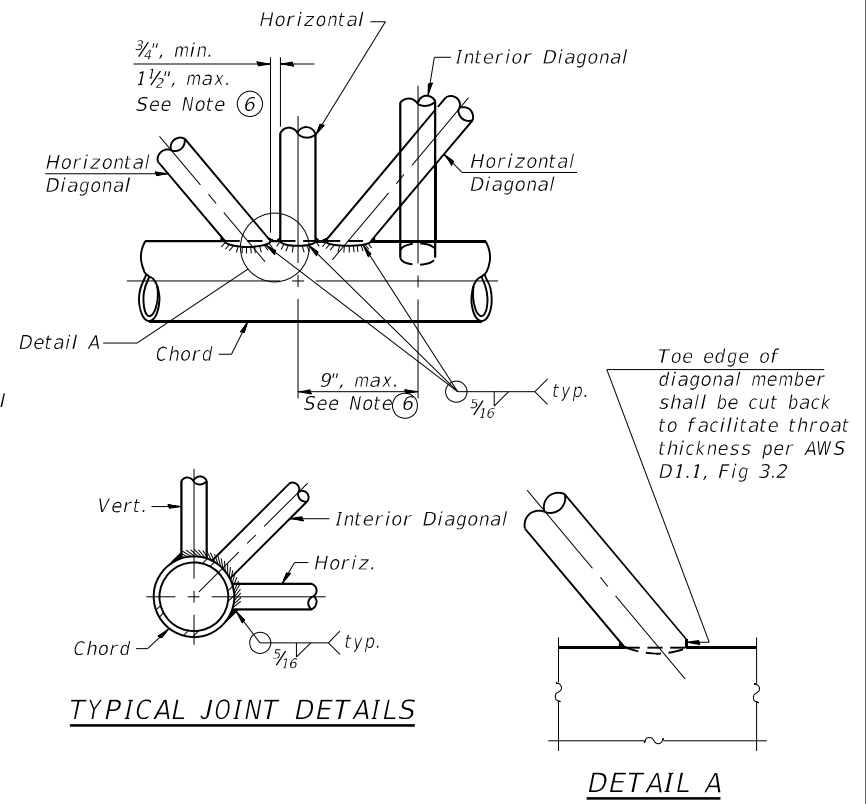
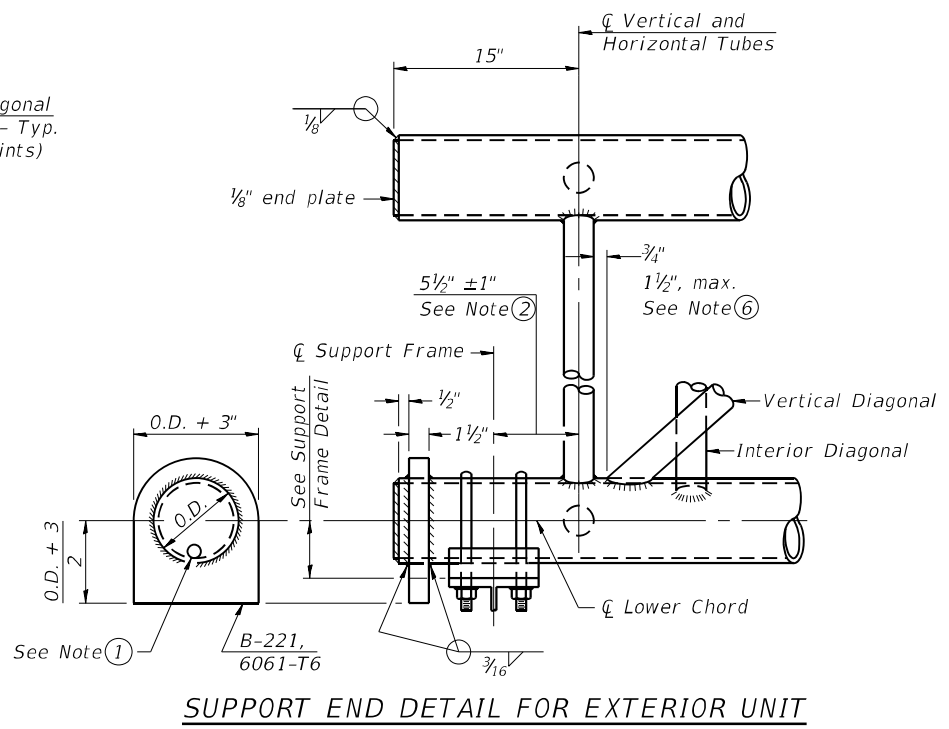
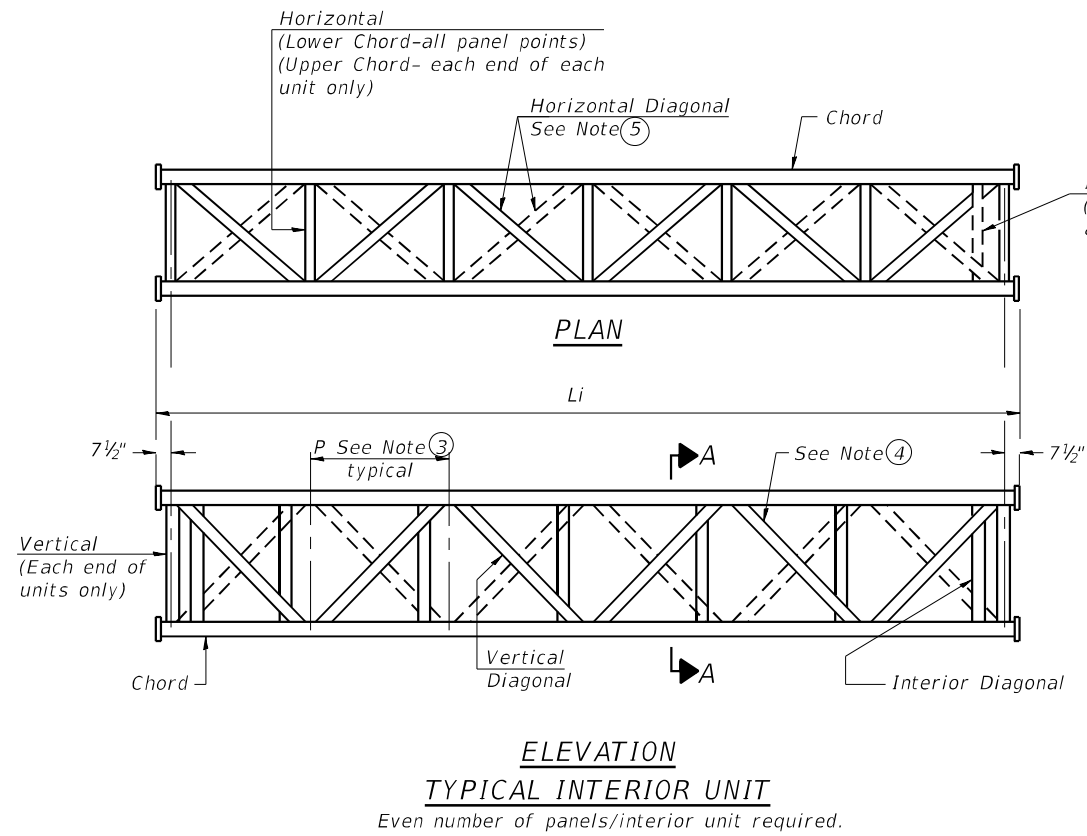
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - GENERAL PLAN & ELEVATION

SHEET 1 OF 7 SHEETS

F.A.I. RTE. 64	SECTION (41-6,41-6-1,41-7)RS-2,BSMART 2023	COUNTY JEFFERSON	TOTAL SHEETS 1052	SHEET NO. 426
CONTRACT NO. 78604			ILLINOIS FED. AID PROJECT	

FILE NAME: H:\P220060 - I-64\Microstation\Sign_Truss\950411064R070.0-01-General Plan & Elevation.dgn



- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" Ø drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by ±1" to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

FILE NAME: H:\P220060 - I-64\Microstation\Sign_Truss\95041064R70.0-02-Aluminum Truss Details for Truss Types I-A, II-A, and III-A.dgn

05-A-2

2-17-2017



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	CHECKED - KBC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

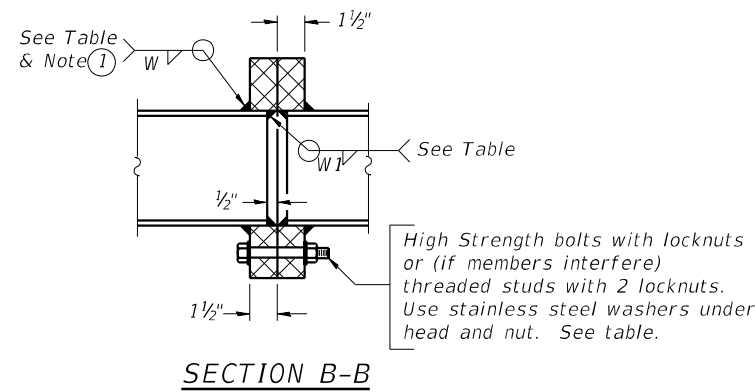
**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A**

SHEET 2 OF 7 SHEETS

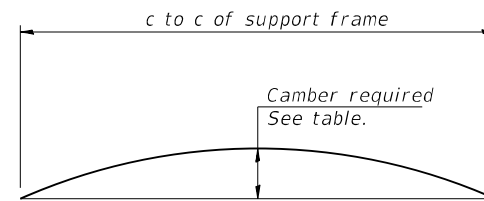
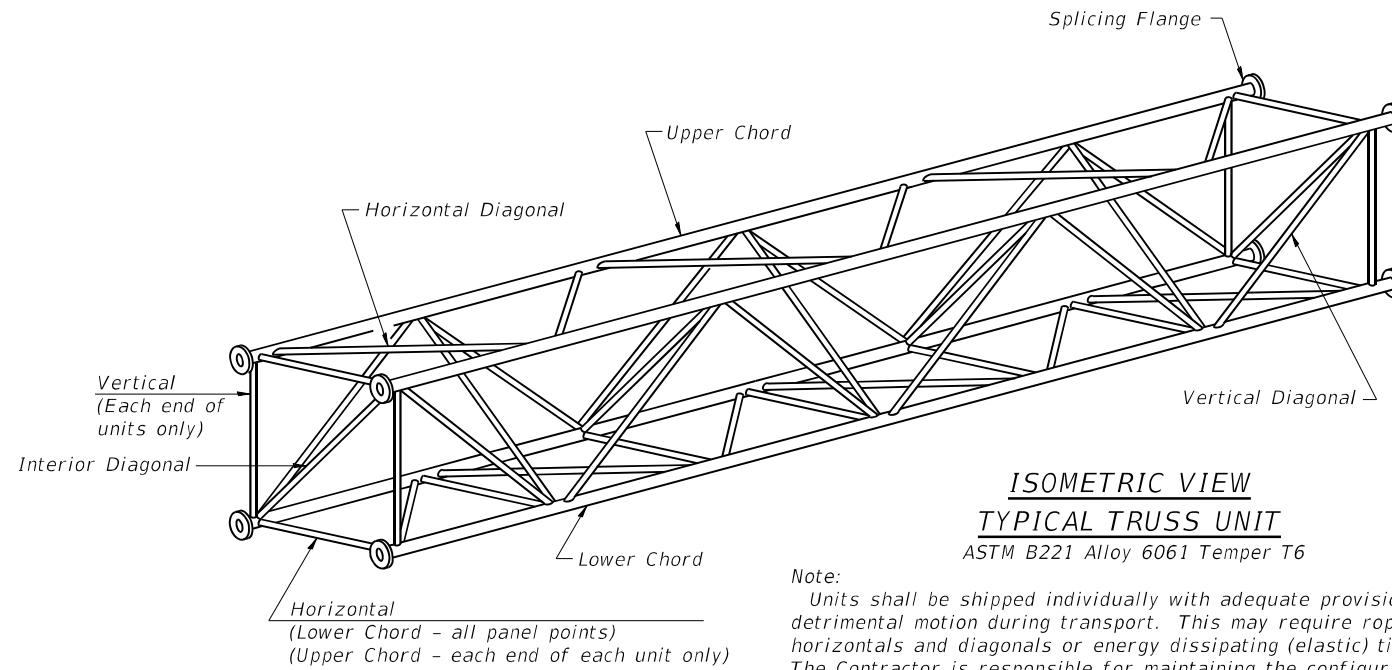
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	427
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

TRUSS UNIT TABLE

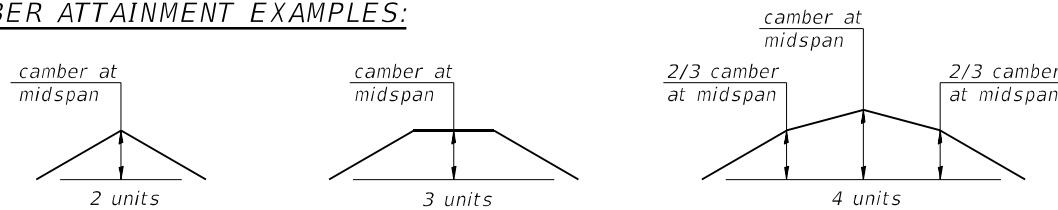
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(Le)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(Li)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W1		
9S0411064R070.0	2321+70	I-A	6	30'-1 1/2"	4'-8 1/2"	1	6	29'-6"	4'-8 1/2"	5"	5/16"	2 1/2"	5/16"	2 3/8"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"



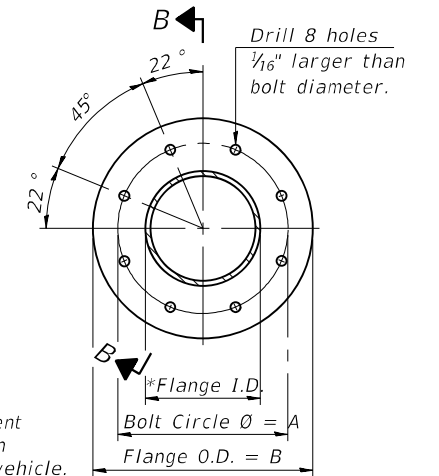
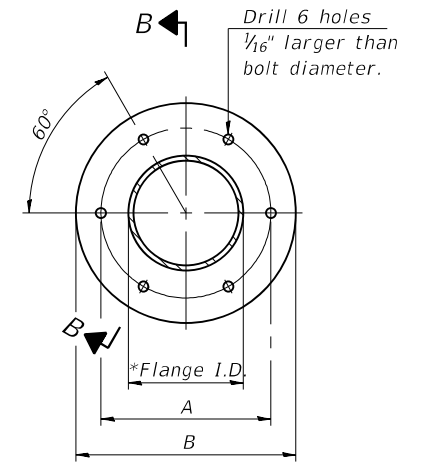
① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



SPLICING FLANGES

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

054-A-2

2-17-2017

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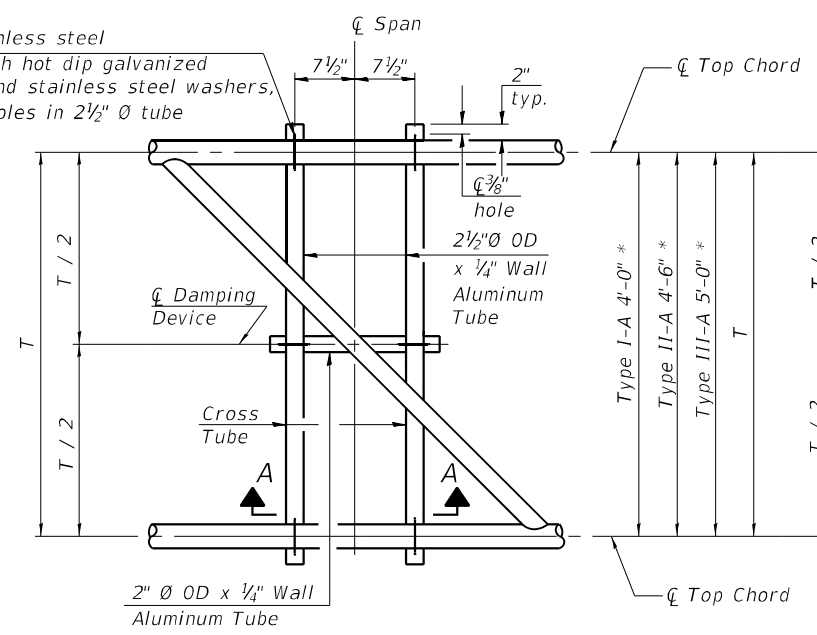
**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A AND III-A**

SHEET 3 OF 7 SHEETS

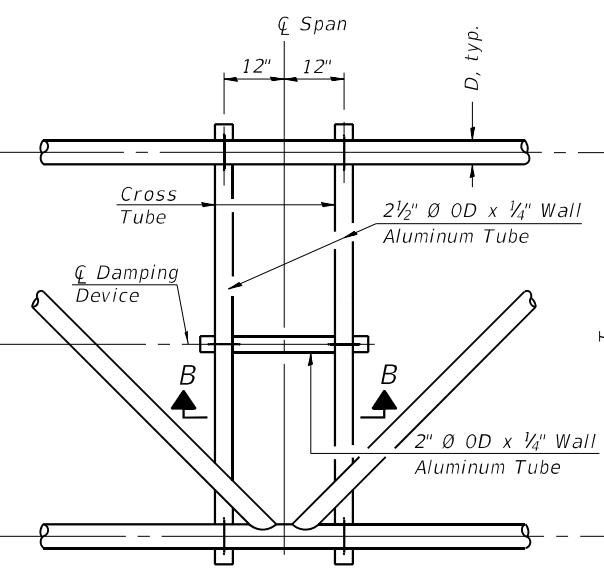
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	428
CONTRACT NO. 78604				
ILLINOIS		FED. AID PROJECT		

FILE NAME: H:\P220060 - I-64\Microstation\Sign_Truss\9S0411064R070.0-03-Aluminum Truss Details for Truss Types I-A, II-A, and III-A.dgn

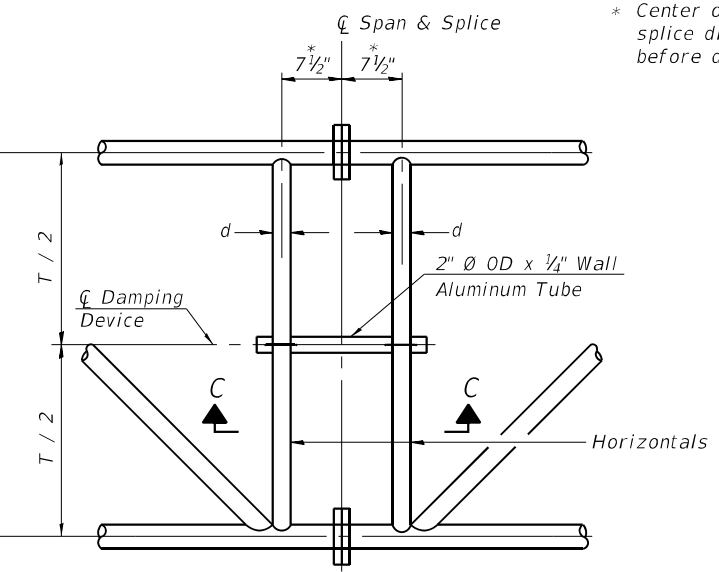
$\frac{5}{16}$ " \varnothing stainless steel
U-bolt with hot dip galvanized
locknuts and stainless steel washers,
typ. $\frac{3}{8}$ " \varnothing holes in $2\frac{1}{2}$ " \varnothing tube



PLAN DETAIL "A"
☐ Span between Panel Points



PLAN DETAIL "B"
☐ Span at Panel Point



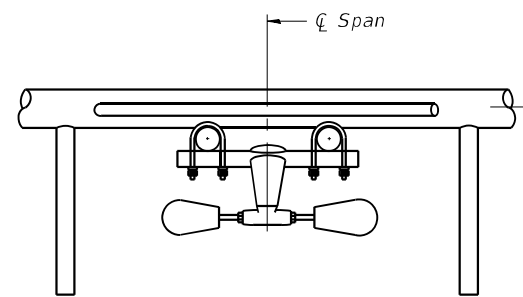
PLAN DETAIL "C"
☐ Span at ☐ Chord Splice

* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

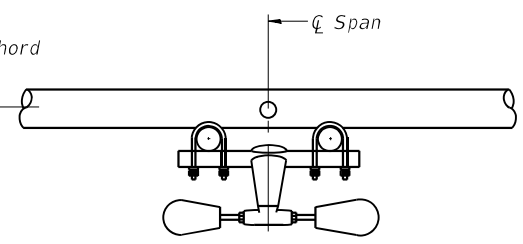
NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...

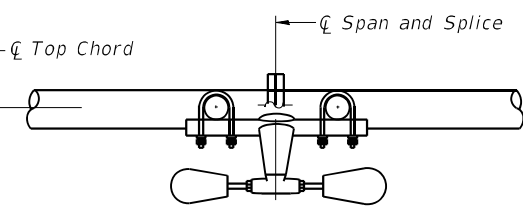
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



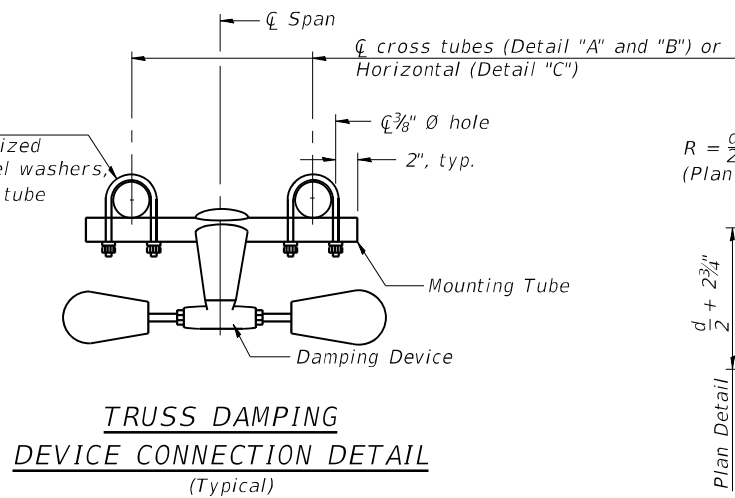
SECTION A-A



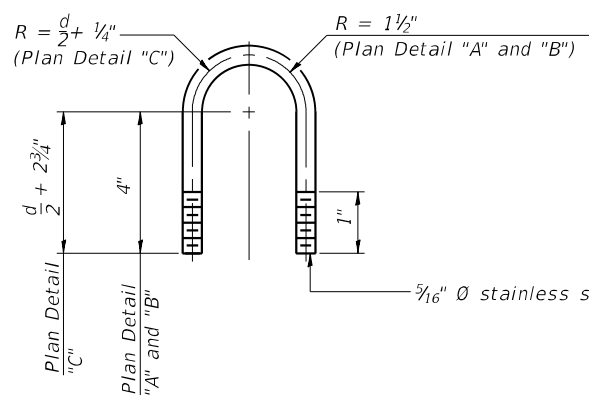
SECTION B-B



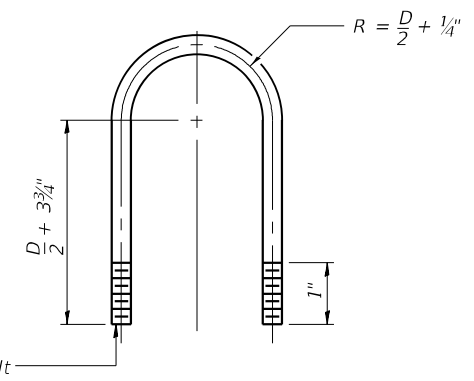
SECTION C-C



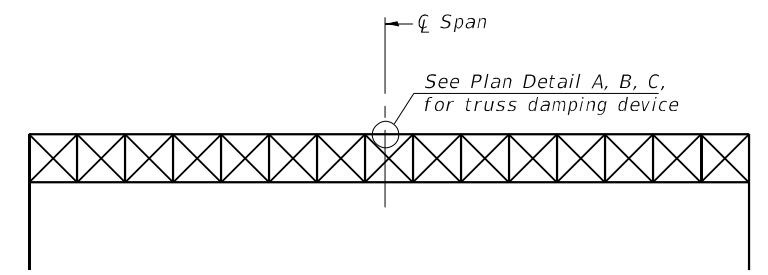
**TRUSS DAMPING
DEVICE CONNECTION DETAIL**
(Typical)



**DAMPING DEVICE MOUNTING
TUBE U-BOLT DETAIL**
(Typical)



**TOP CHORD TO CROSS TUBE
U-BOLT DETAIL**
(Typical - Detail "A" and "B")



ELEVATION
Aluminum Overhead
Sign Truss

FILE NAME: H:\P220060 - I-64\MicroStation\Sign_Truss\950411064R070-0-04-Damping_Device.dgn

05-A-D

2-17-2017

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	CHECKED - KBC	REVISED -

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DEPARTMENT OF TRANSPORTATION**

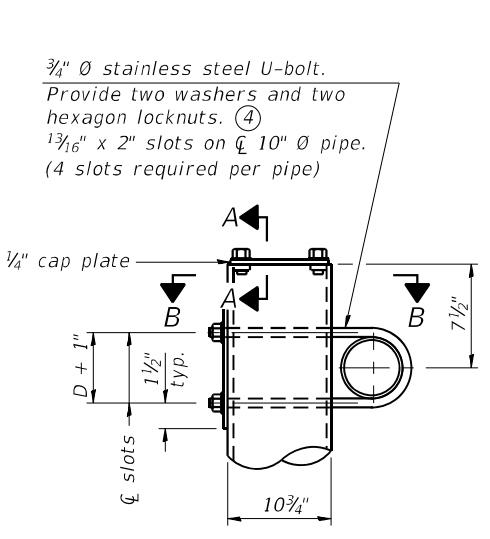
**OVERHEAD SIGN STRUCTURE
DAMPING DEVICE**

SHEET 4 OF 7 SHEETS

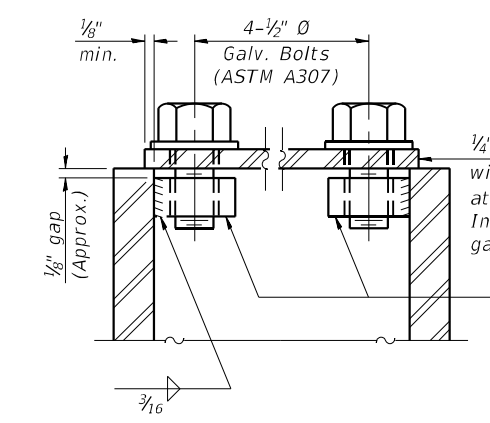
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	429
CONTRACT NO. 78604				

ILLINOIS FED. AID PROJECT

FILE NAME: H:\P220060 - I-64\Microstation\Sign_Truss\950411064R070.0-05-Support Frame for Aluminum Truss.dgn

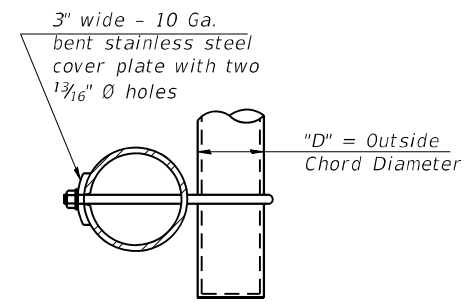


DETAIL A

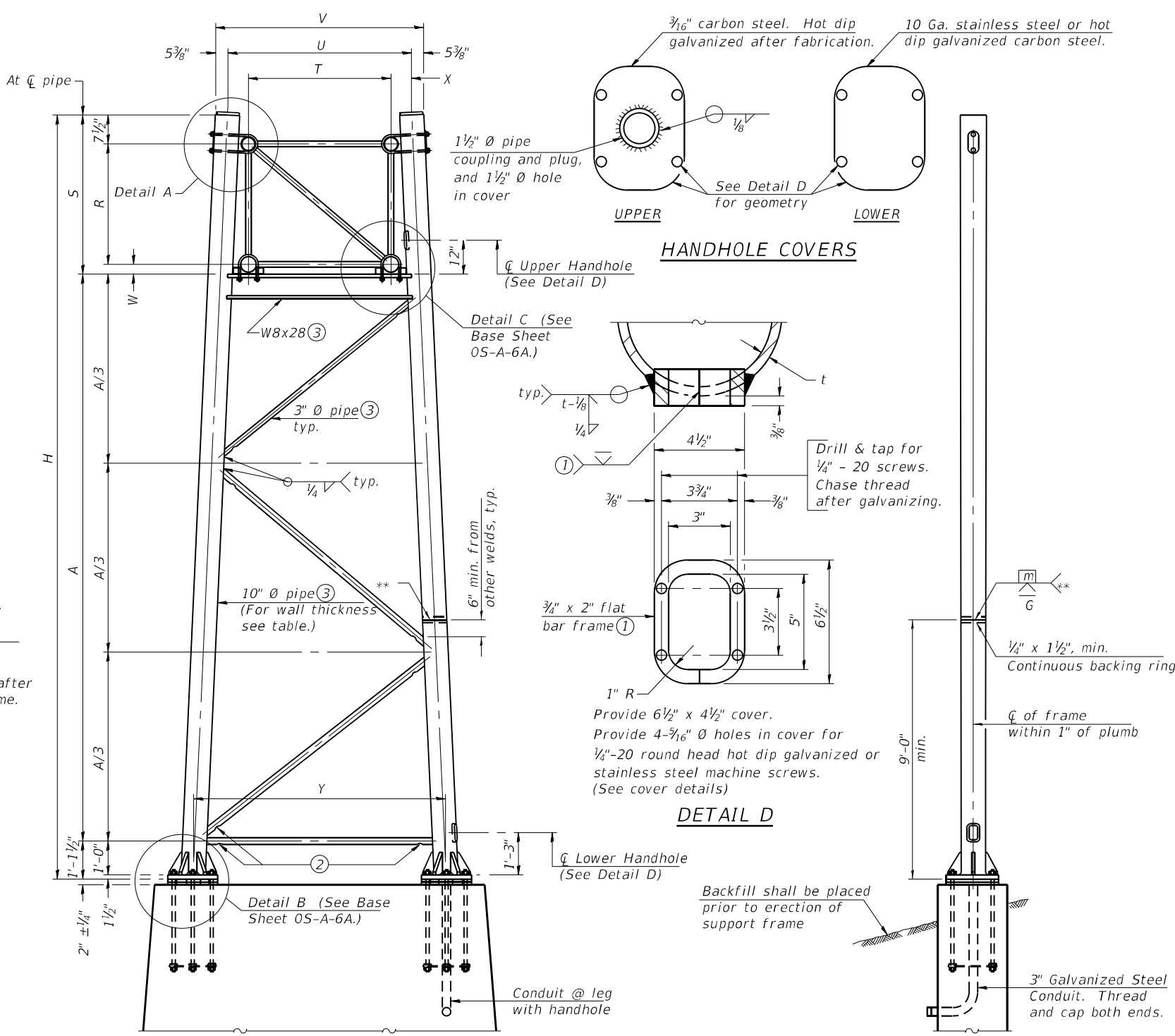


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.

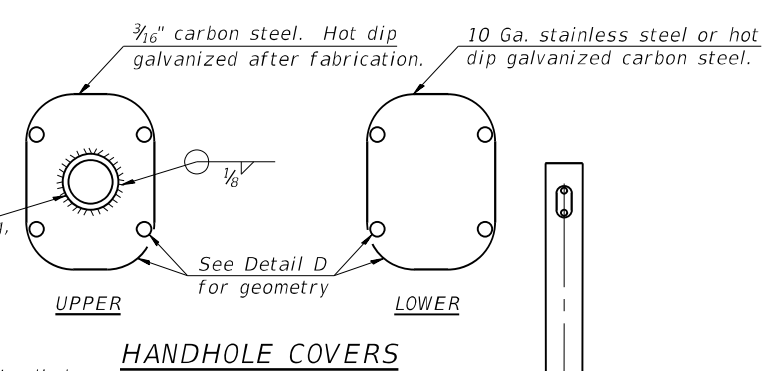


SECTION B-B

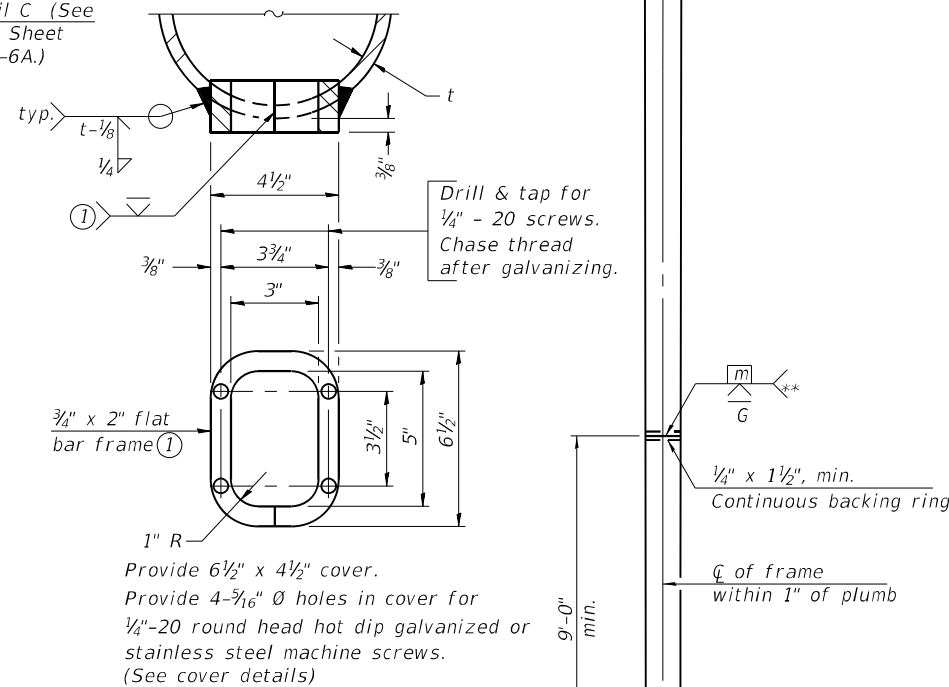


For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

SIDE ELEVATION

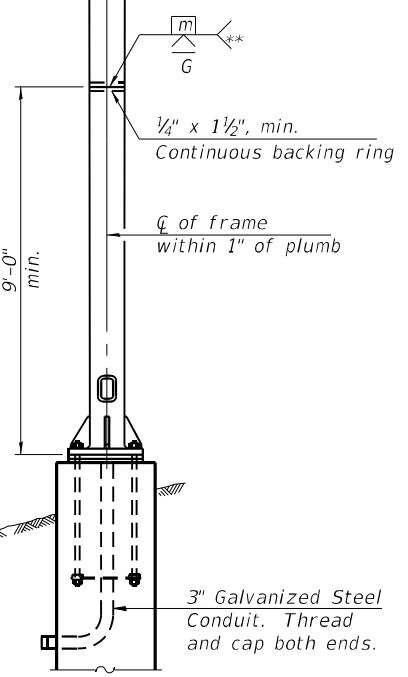


HANDHOLE COVERS



DETAIL D

Backfill shall be placed prior to erection of support frame



END ELEVATION

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
 Load combinations checked include deadload plus:
 a) 100% wind normal to sign, 20% parallel to sign
 b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"
II-A ⑤	5'-3"	6'-3 1/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9 1/2"	8'-3"

10" Ø PIPE TRUSS SUPPORT FRAME

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H ⑥	A
		Left	Right				
9S0411064R070.0	2321+70	X		I-A	0.279	30'-1 1/2"	24'-8"
9S0411064R070.0	2321+70		X	I-A	0.279	30'-1 1/2"	24'-8"

05-A-6

2-17-2017



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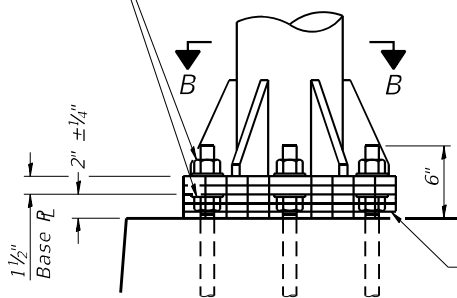
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR ALUMINUM TRUSS

SHEET 5 OF 7 SHEETS

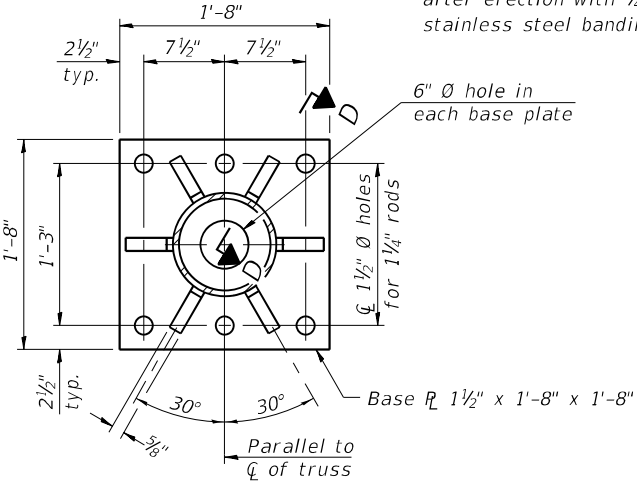
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	430
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.

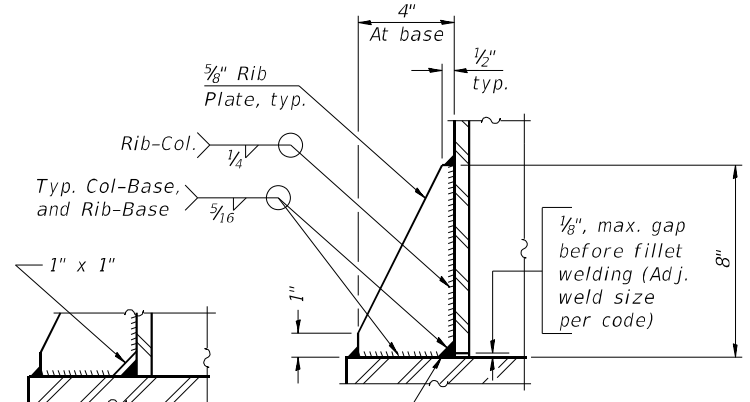


DETAIL B

Ribs shall be cut to fit slope of pipe.
Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.

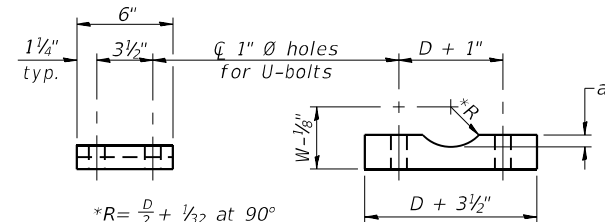


SECTION B-B



SECTION D-D

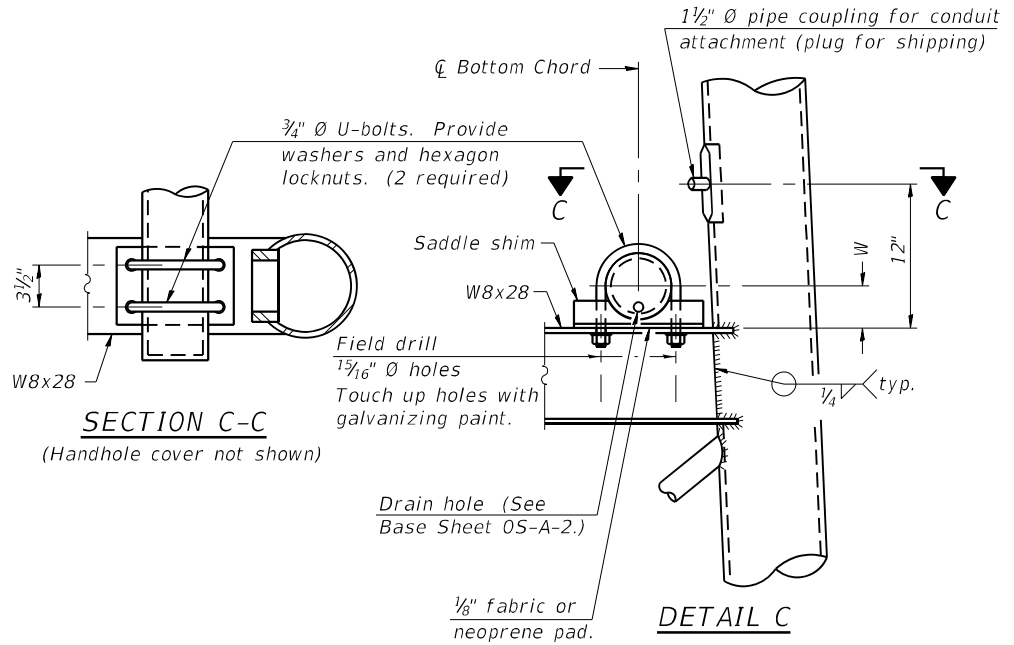
** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.
1/8" max. gap before fillet welding (Adj. weld size per code)
No snip req'd. at rib inside corner if placed before col. to base plate welding.**



SADDLE SHIM DETAIL

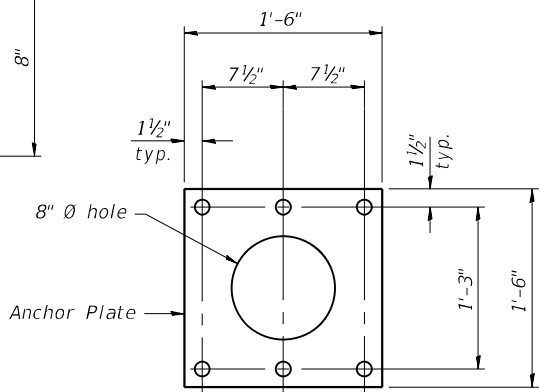
ASTM B26 Alloy 356-F or ASTM B209 Alloy 6061-T651 (4 required per sign truss)
*R = D/2 + 1/32 at 90°
D = Outside Diameter of Chord.
For W, see Base Sheet 05-A-6.

Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	1 1/16"
6"	7/8"
6 1/2"	1 5/16"
7"	1"

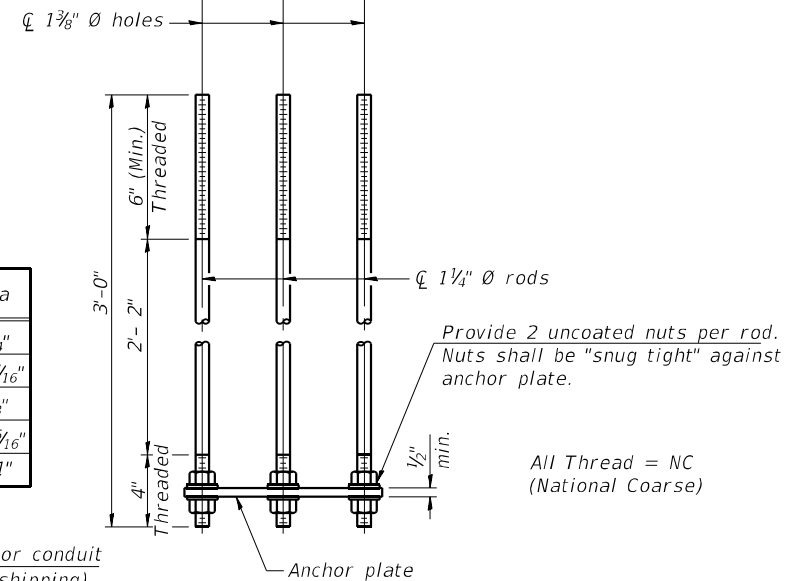


SECTION C-C

DETAIL C



Anchor Plate

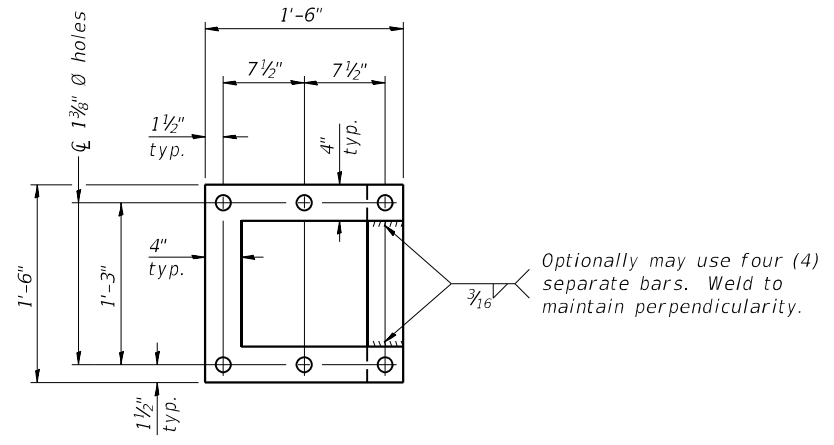


ANCHOR ROD DETAIL

Spread Footing Foundation

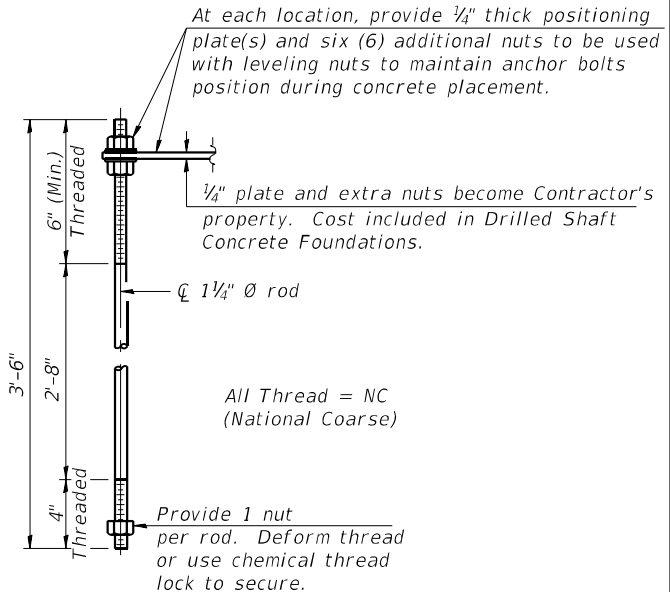
Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

10" Ø PIPE SUPPORT FRAME DETAILS



POSITIONING PLATE(S)

Optionally may use four (4) separate bars. Weld to maintain perpendicularity.



ANCHOR ROD DETAIL

Drilled Shaft Foundation

05-A-6A

2-17-2017



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=	- NBB	-
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STATE OF ILLINOIS
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OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS - ALUMINUM TRUSS

SHEET 6 OF 7 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	431

CONTRACT NO. 78604

ILLINOIS FED. AID PROJECT

FILE NAME: H:\P220060 - I-64\Microstation\Sign_Truss\950411064R070-0-06-Support Frame for Aluminum Truss.dgn

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

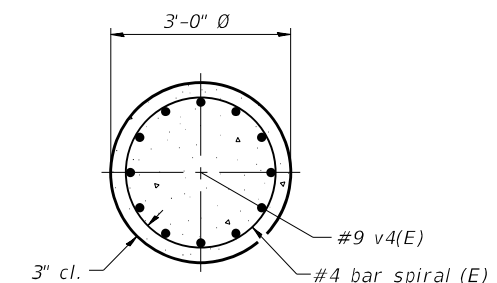
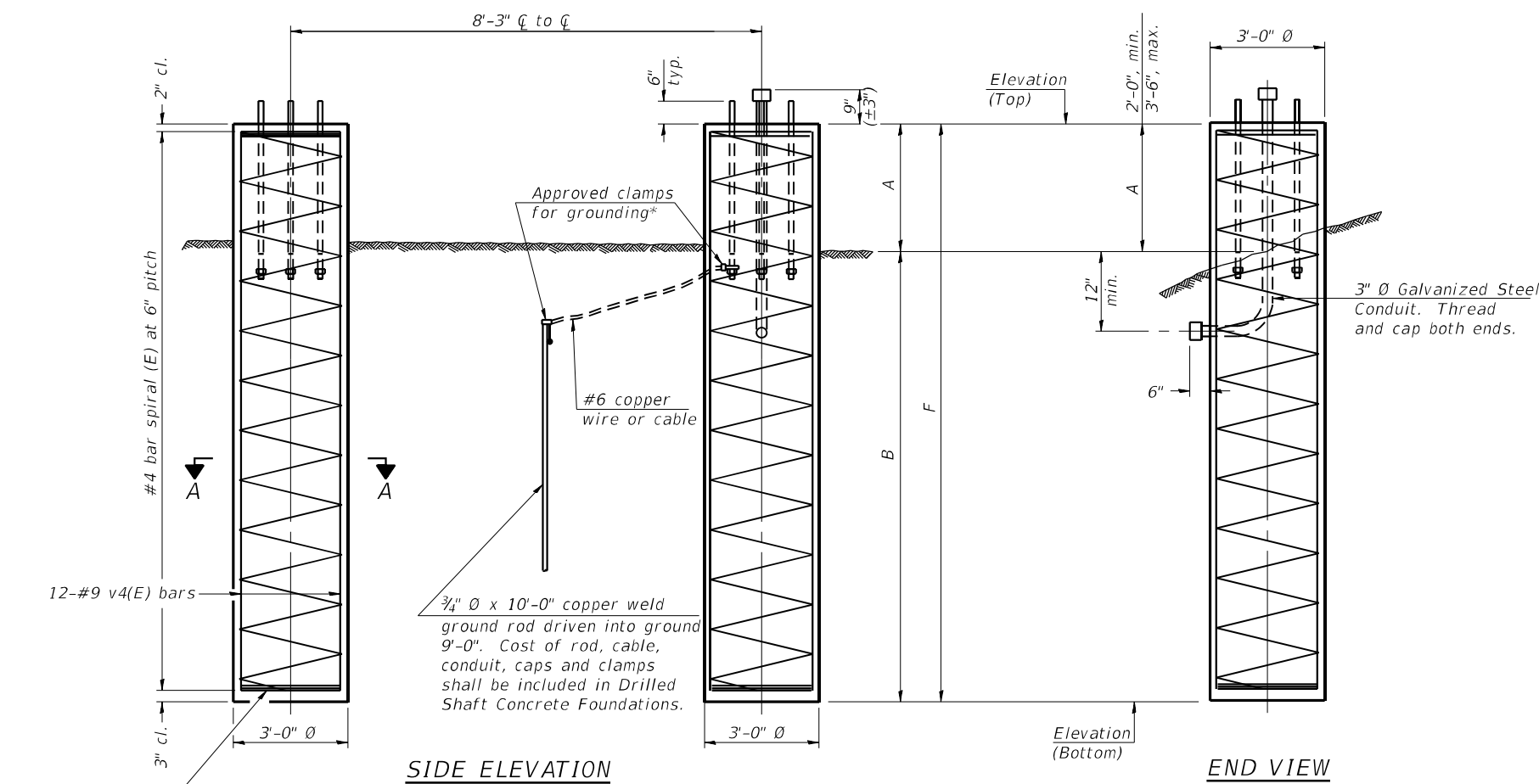
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

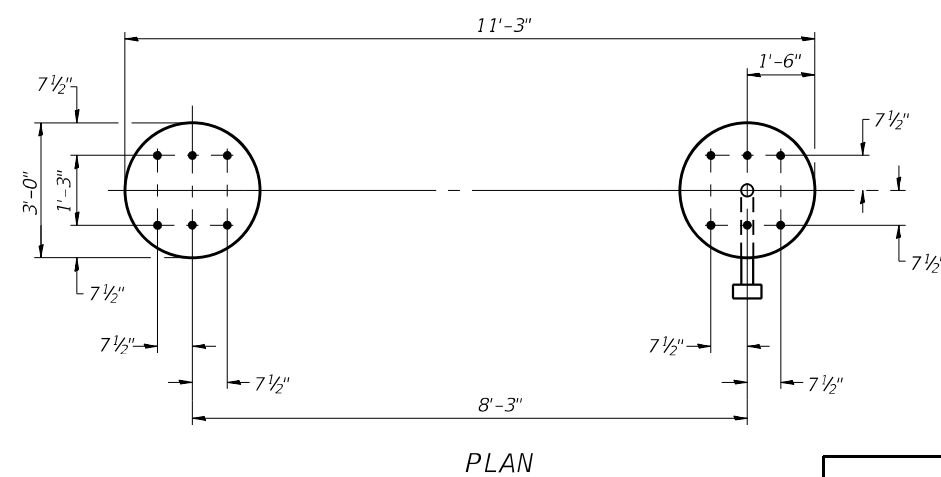
Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



3 hoops minimum top and bottom



For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

**DETAILS FOR 10" Ø SUPPORT FRAME
TYPE I-A or II-A TRUSS**

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
9S0411064R070.0	2321+70	459.59	440.59	2'-6"	16'-6"	19'-0"	459.59	440.84	2'-3"	16'-6"	18'-9"	9.9

FILE NAME: H:\P220060 - I-64\Microstation\Sign_Truss\950411064R070.0-07-Drilled Shaft_Details.dgn

054-F3 2-17-2017



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PLOT SCALE =	CHECKED - KBC	REVISED -
PLOT DATE = 11/3/2022	DRAWN - NBB	REVISED -
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DEPARTMENT OF TRANSPORTATION**

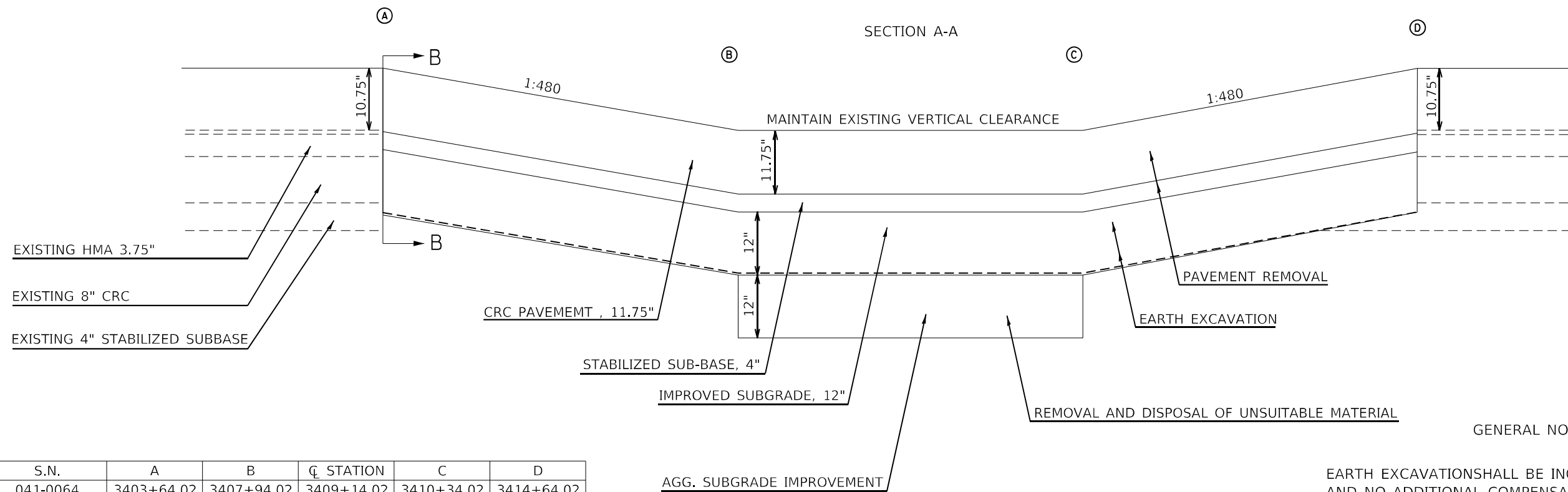
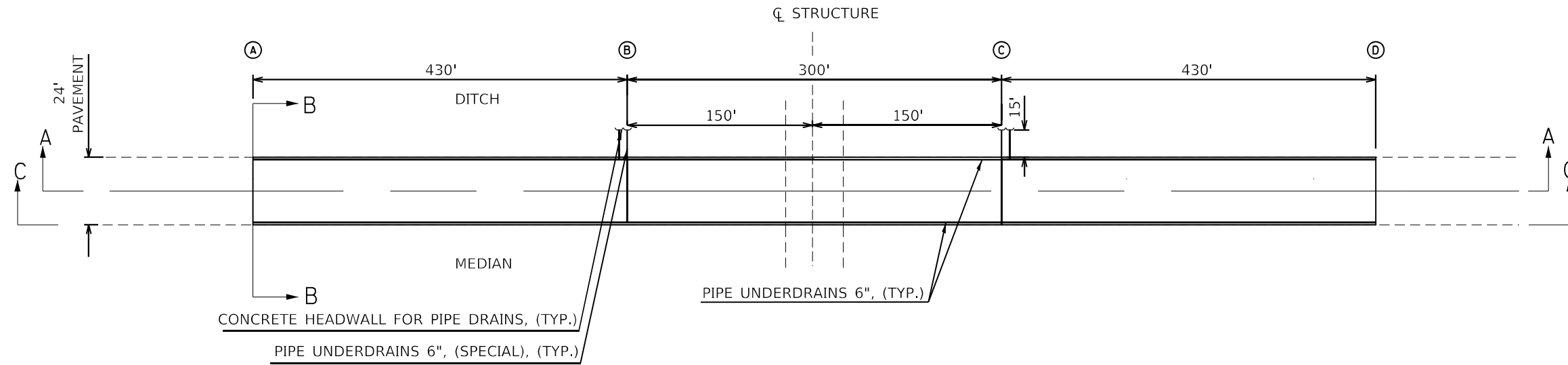
**OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS**

SHEET 7 OF 7 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	(41-6,41-6-1,41-7)RS-2.BSMART 2023	JEFFERSON	1052	432
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

DETAIL OF PAVEMENT REPLACEMENT UNDERNEATH EXISTING STRUCTURES

SN 041-0064 SN 041-0079
SN 041-0069 SN 041-0080



GENERAL NOTES SECTION A-A

EARTH EXCAVATIONS SHALL BE INCIDENTAL TO PAVEMENT REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED

MINIMUM 16' 6\"/>

S.N.	A	B	CL. STATION	C	D
041-0064	3403+64.02	3407+94.02	3409+14.02	3410+34.02	3414+64.02
041-0069	2132+32.46	2136+62.46	2137+94.96	2139+27.46	2143+57.46
041-0079	2260+61.05	2264+91.05	2266+11.05	2267+31.05	2271+61.05
041-0080	2337+61.40	2341+91.40	2343+11.40	2344+31.40	2348+61.40

MODEL: Default
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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 8:59:54 AM	CHECKED -	REVISED -
	DATE -	REVISED -

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DEPARTMENT OF TRANSPORTATION**

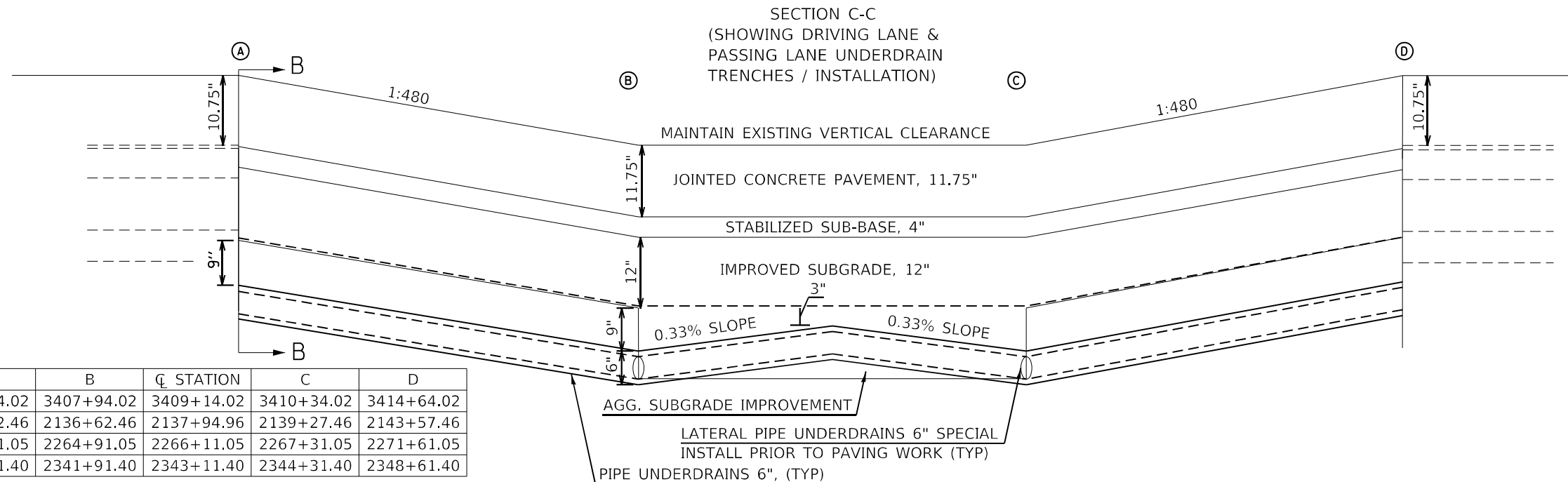
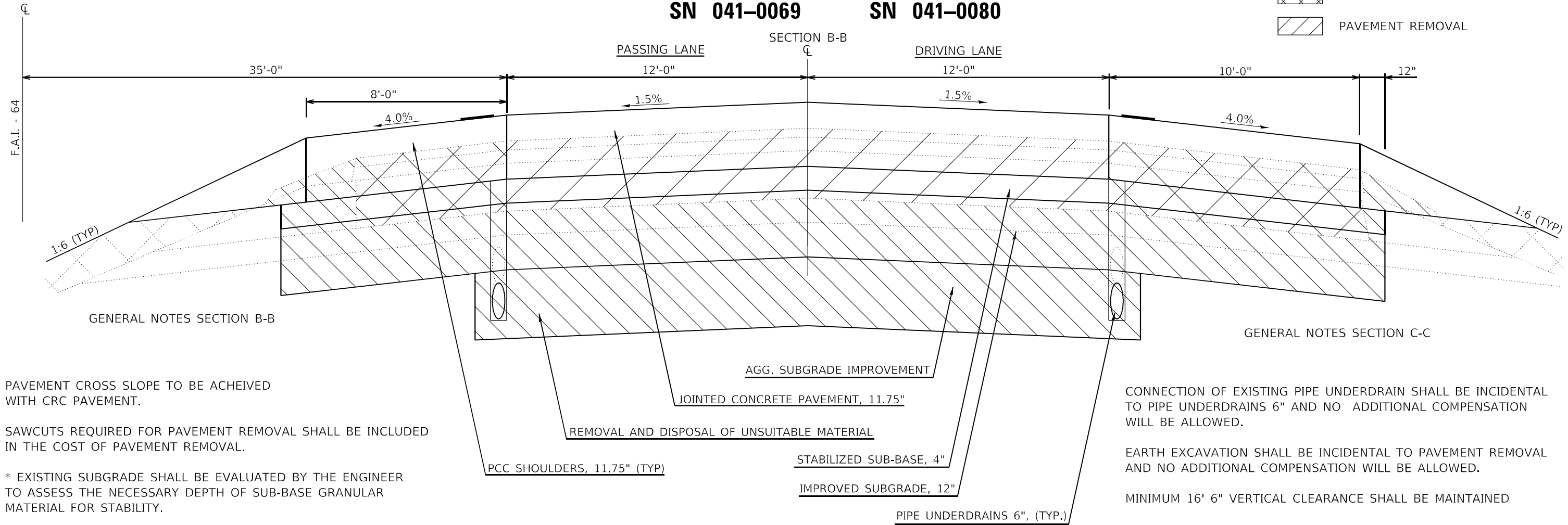
DETAIL OF RESURFACING UNDERNEATH OVERHEAD STRUCTURES		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N.T.S.		64	*	JEFFERSON	1052	433
SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT						

* (41-6.41-6-1.41-7)RS-2:BSMART2023

DETAIL OF PAVEMENT REPLACEMENT UNDERNEATH

EXISTING STRUCTURES
SN 041-0064 SN 041-0079
SN 041-0069 SN 041-0080

- EARTH EXCAVATION
- PAVED SHOULDER REMOVAL
- PAVEMENT REMOVAL



S.N.	A	B	CL. STATION	C	D
041-0064	3403+64.02	3407+94.02	3409+14.02	3410+34.02	3414+64.02
041-0069	2132+32.46	2136+62.46	2137+94.96	2139+27.46	2143+57.46
041-0079	2260+61.05	2264+91.05	2266+11.05	2267+31.05	2271+61.05
041-0080	2337+61.40	2341+91.40	2343+11.40	2344+31.40	2348+61.40

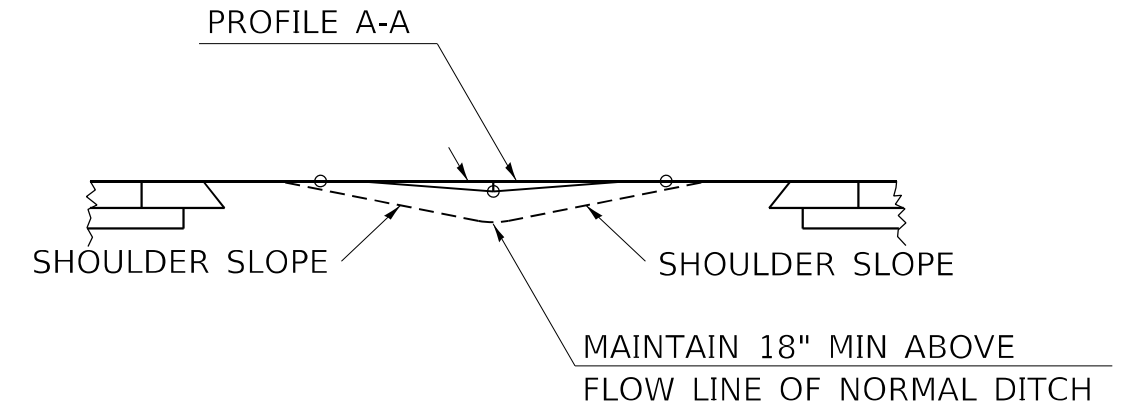
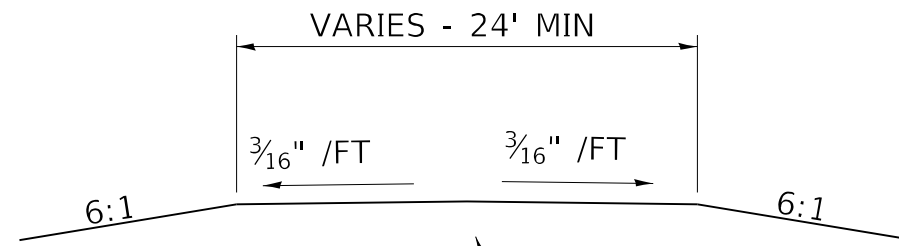
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF RESURFACING UNDERNEATH OVERHEAD STRUCTURES		* (41-6.41-6-1.41-7)RS-2:BSMART2023	
F.A.I. RTE. 64	SECTION *	COUNTY JEFFERSON	TOTAL SHEETS 1052
SCALE: N.T.S.	SHEET OF SHEETS	STA. TO STA.	SHEET NO. 434
		CONTRACT NO. 78604	
ILLINOIS FED. AID PROJECT			

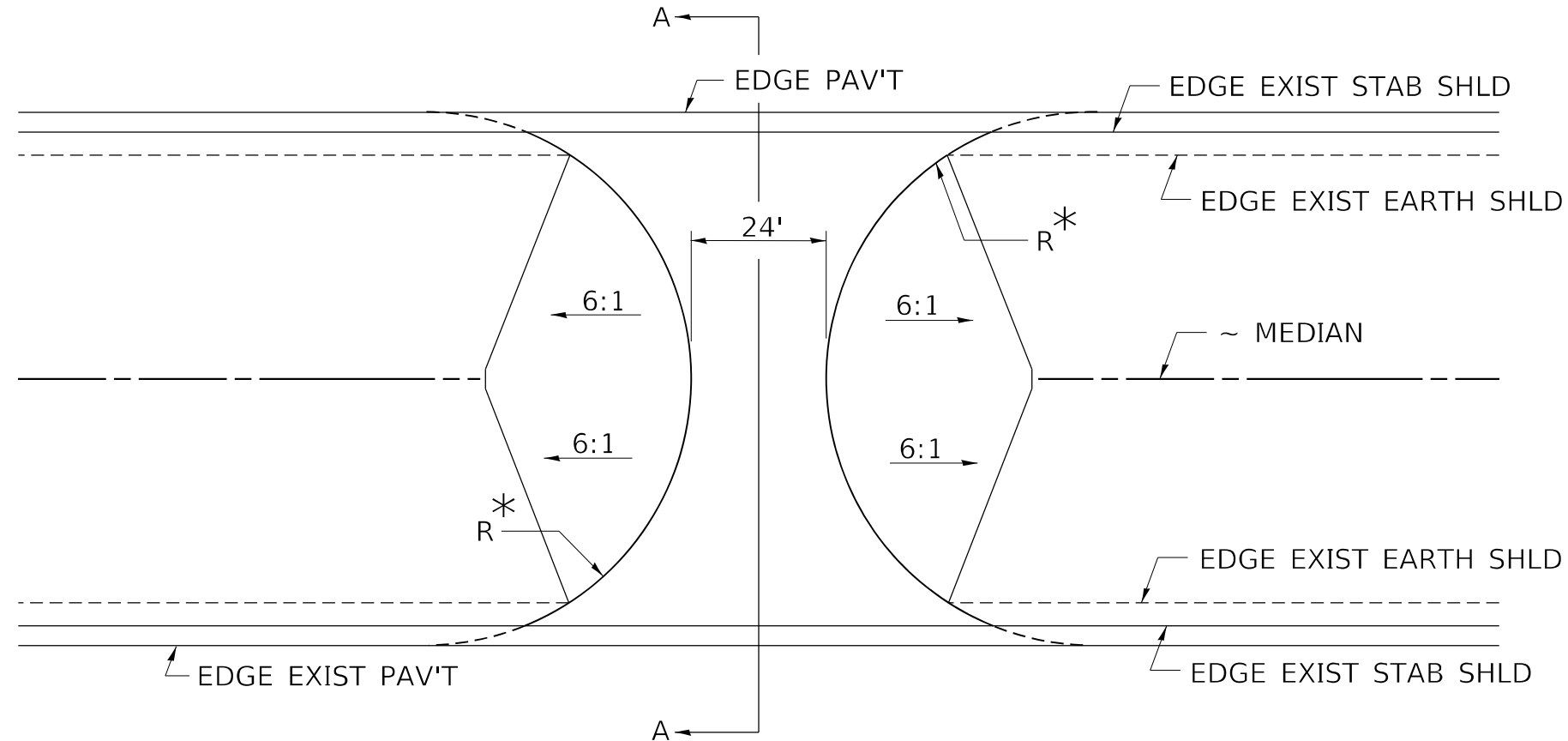
TEMPORARY EMERGENCY PULL-OFF



* RADIUS IS ONE-HALF
MEDIAN WIDTH, OR
35' MAXIMUM

AGGREGATE FOR TEMPORARY ACCESS

TO BE USED:
STA 1899+18.01
STA 2263+51.64



MODEL: Default
FILE NAME: ...D:\78604-sh-drawings.dgn

* (41-6.41-6-1.41-7)RS-2:BSMART2023

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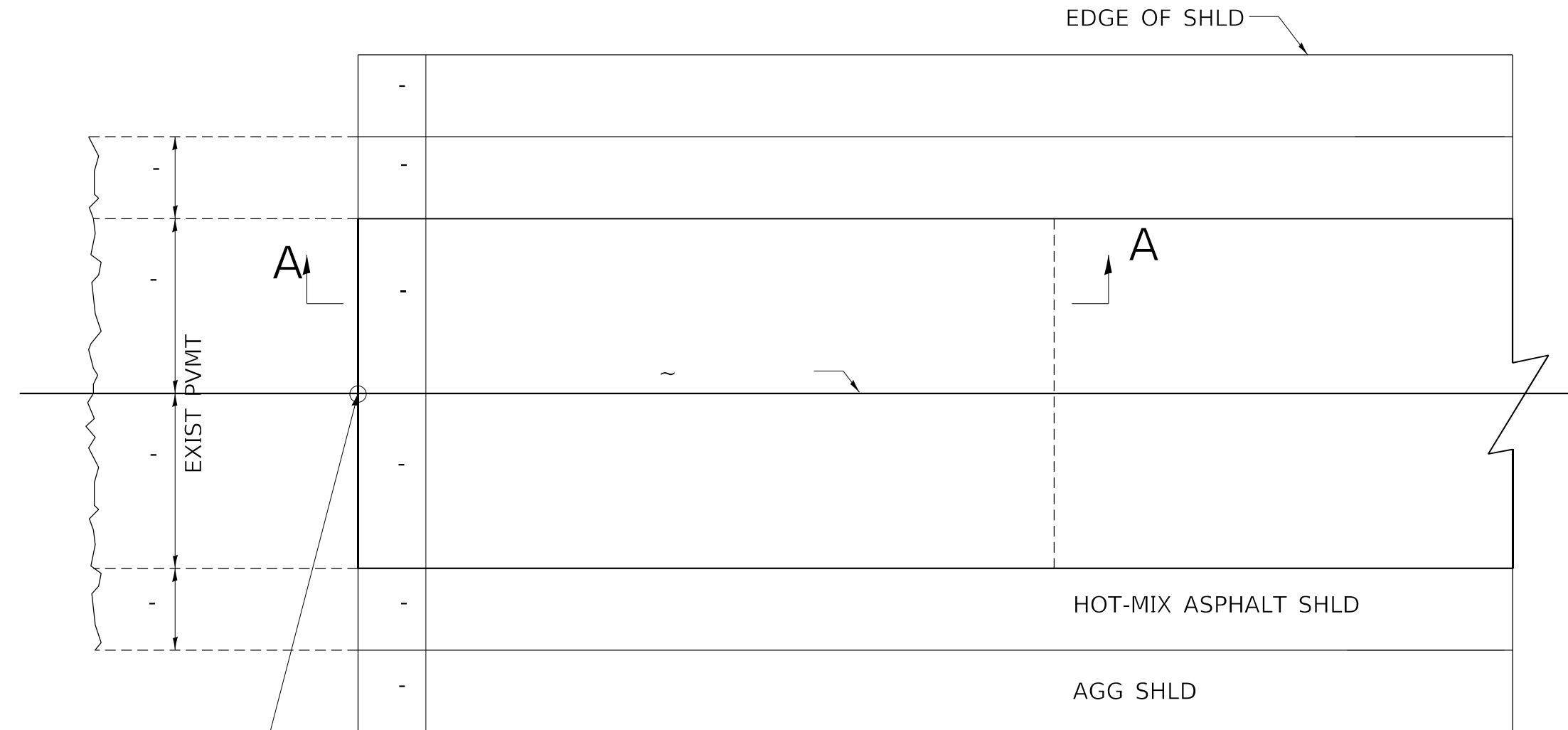
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF MEDIAN CROSSOVER

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

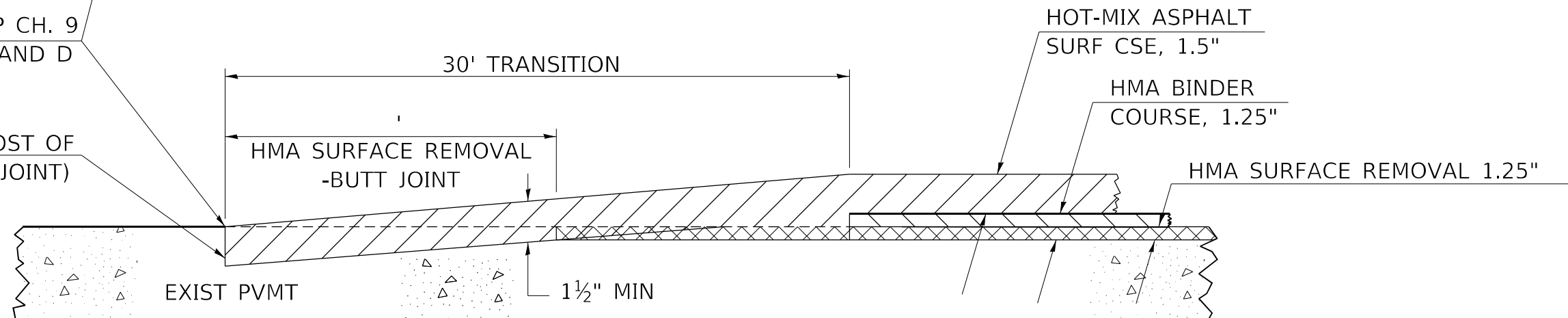
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	435
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

BUTT JOINT WITH MILLING



EXISTING EOP CH. 9
RAMP A,B,C, AND D

SAW CUT (INCLUDED IN THE COST OF
HMA SURFACE REMOVAL-BUTT JOINT)



SECTION A-A

REVISIONS	
DRAWN	03-09-17
REVISED	02-18-20
REVISED	10-21-21
REVISED	

STD. 9-118

* (41-6.41-6-1.41-7)RS-2:BSMART2023

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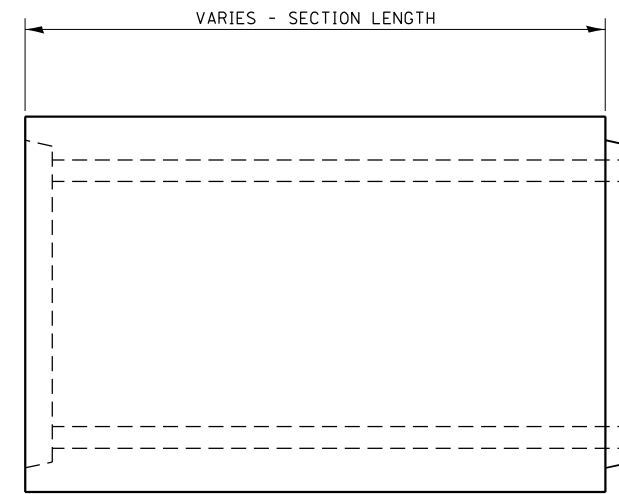
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

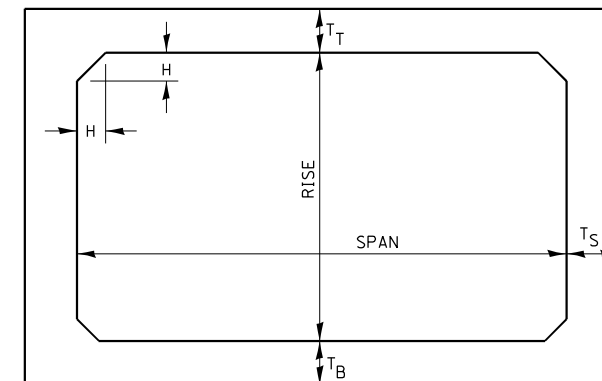
DETAIL OF BUTT JOINT WITH MILLING

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	436
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				



ELEVATION



NOTE: THE HAUNCH DIMENSION H, IS EQUAL TO THE WALL THICKNESS T_S.

TYPICAL BOX SECTION

SPAN, FEET	T _T , INCHES		T _B , INCHES		T _S , INCHES	
	M 259	M 273	M 259	M 273	M 259	M 273
3	4	7	4	6	4	4
4	5	7 1/2	5	6	5	5
5	6	8	6	7	6	6
6	7	8	7	7	7	7
7	8	8	8	8	8	8
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12

TYPICAL THICKNESSES

GENERAL NOTES:

MINIMUM COVER FOR BOX
CULVERTS SHALL BE 6".

PRECAST CONCRETE BOX SECTION

* (41-6.41-6-1.41-7)RS-2;BSMART2023

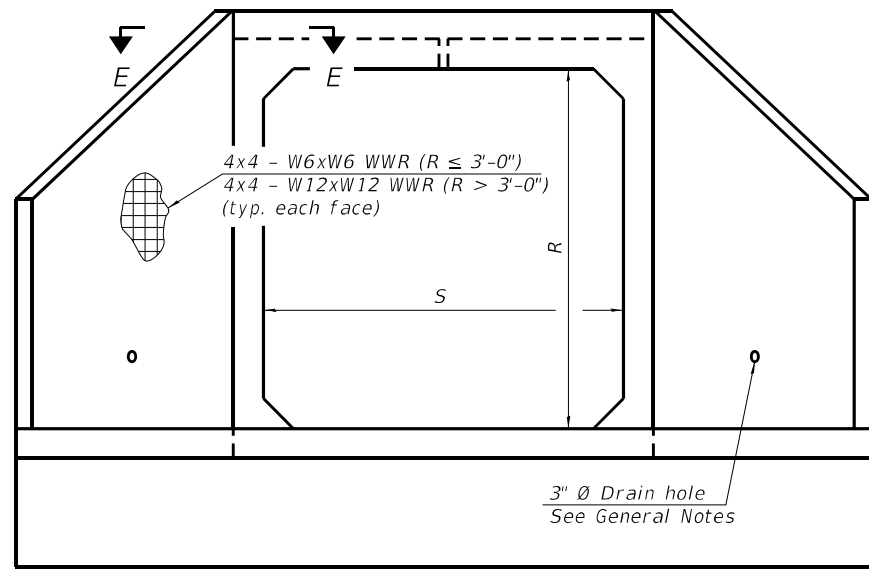
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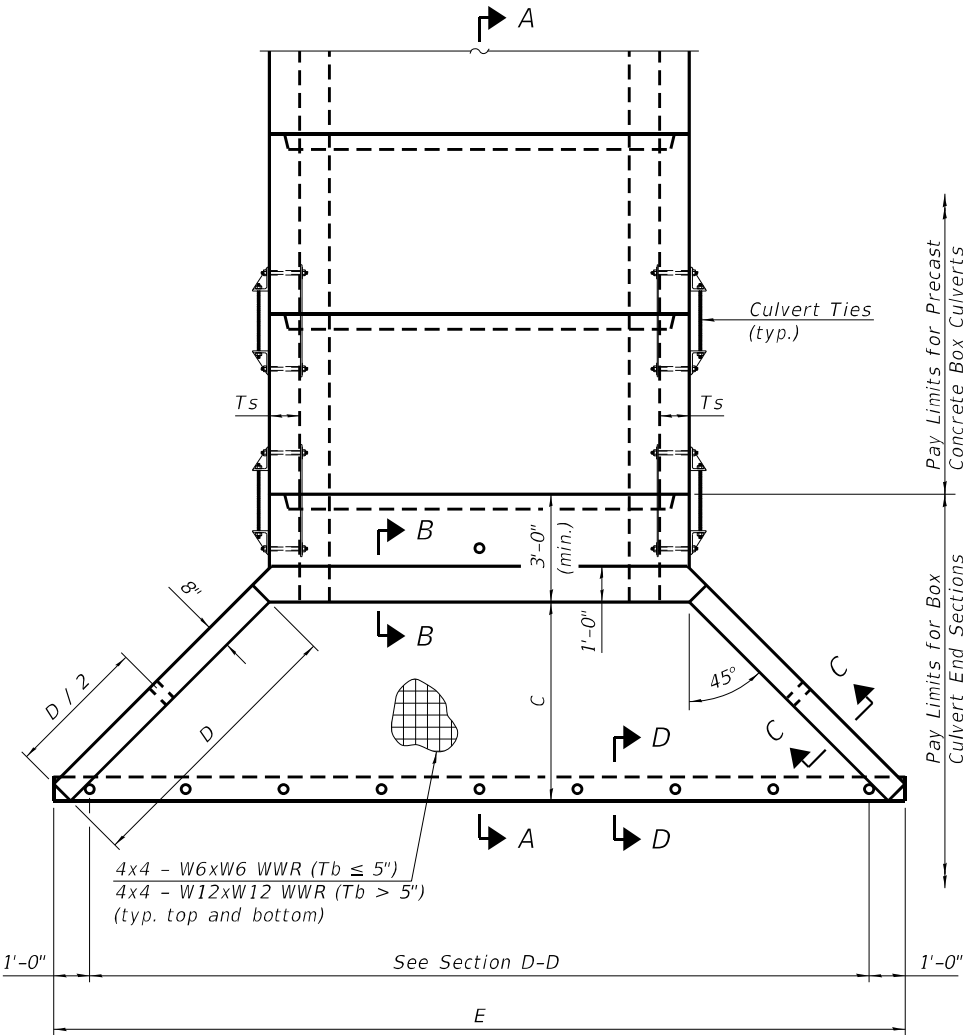
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PRECAST CONCRETE BOX CULVERT DETAILS			
SCALE: N.T.S.	SHEET	OF SHEETS	STA. TO STA.

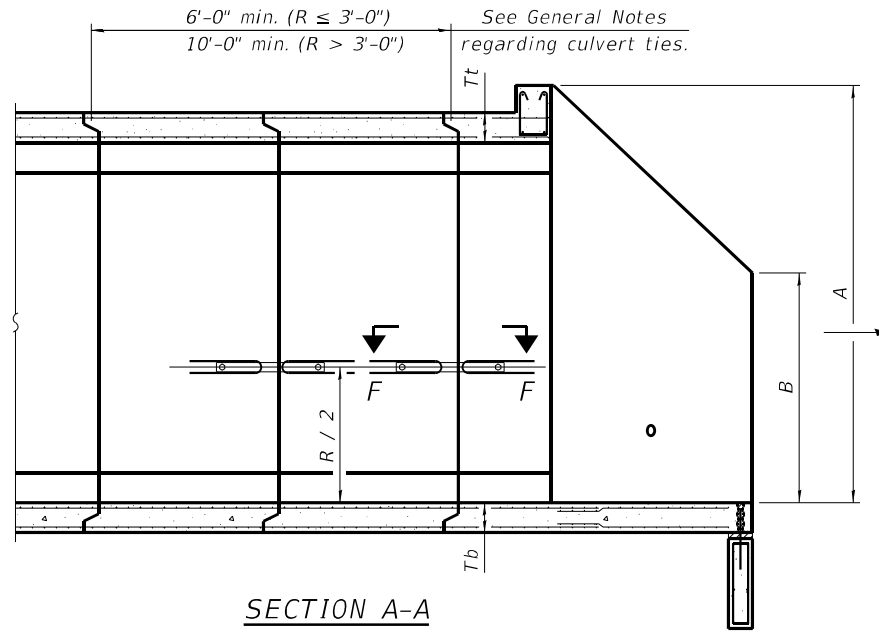
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	437
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				



END VIEW



PLAN



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included in the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 5/8"	4'-1"	10'-4 5/8"	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 1/8"	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 5/8"	5'-6"	12'-4 5/8"	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 1/8"	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 1/2"	2'-2 1/2"	2'-11 3/8"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 1/2"	3'-10"	11'-2 3/8"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 1/2"	2'-8 1/2"	3'-11 3/8"	5'-7"	13'-8 1/8"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 1/2"	5'-3"	13'-2 3/8"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 1/2"	3'-2 1/2"	4'-11 3/8"	7'-0"	15'-8 1/8"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 3/8"	6'-8"	15'-2 1/2"	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 1/4"	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	14'-10 1/8"	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 1/4"	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	16'-10 1/8"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 1/4"	6'-9"	16'-5 7/8"	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	18'-10 1/8"	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 1/4"	8'-2"	18'-5 7/8"	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 3/8"	4'-1"	13'-10 3/8"	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	16'-0 1/8"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 5/8"	5'-6"	15'-10 5/8"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	18'-0 3/8"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 3/4"	6'-11"	17'-10 3/4"	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	20'-0 1/8"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 3/4"	8'-4"	19'-10 3/4"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	22'-0 1/4"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 3/4"	9'-9"	21'-10 3/4"	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	17'-2 1/8"	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	19'-2 1/8"	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	21'-2 1/8"	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	23'-2 1/4"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	18'-2 1/8"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	20'-2 1/8"	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	22'-2 1/8"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	24'-2 1/4"	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 3/4"	4'-4"	17'-6 1/8"	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 3/4"	5'-9"	19'-6 1/8"	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 3/4"	7'-2"	21'-6 1/8"	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 3/8"	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 1/8"	9'-11"	25'-5 5/8"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 1/2"	4'-5"	18'-10 1/4"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 1/2"	5'-10"	20'-10 1/4"	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 1/2"	7'-3"	22'-10 3/8"	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 1/2"	8'-8"	24'-10 3/8"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 1/2"	10'-1"	26'-10 3/8"	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 1/8"	4'-7"	20'-3 1/8"	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 1/8"	6'-0"	22'-3 1/8"	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 1/4"	7'-4"	24'-1 3/4"	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 1/4"	8'-9"	26'-1 3/4"	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 1/4"	10'-2"	28'-1 1/8"	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 3/8"	4'-8"	21'-6 1/2"	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 3/8"	6'-1"	23'-6 1/2"	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 3/8"	7'-6"	25'-6 3/8"	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 3/8"	8'-11"	27'-6 3/8"	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 3/8"	10'-4"	29'-6 5/8"	17.4	Yes

Note:

Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

(Sheet 1 of 2)

* (41-6.41-6-1.41-7)RS-2;BSMART2023

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SCB-AES

2-17-2017

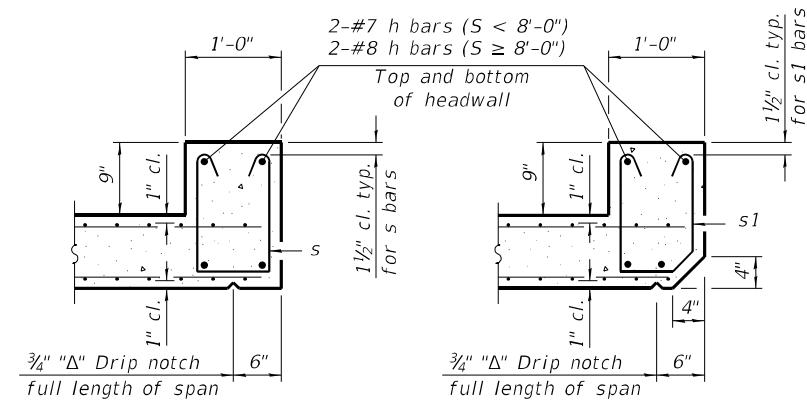
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT
APRON END SECTION DETAILS

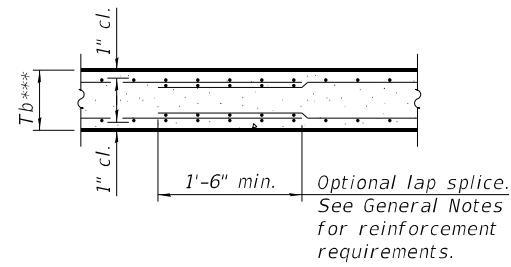
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				



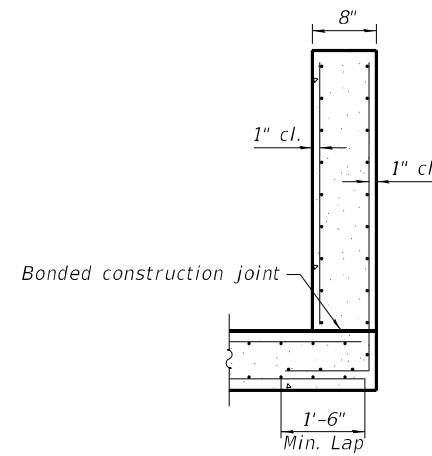
SECTION B-B
(Top slab at downstream end)

SECTION B-B
(Top slab at upstream end)

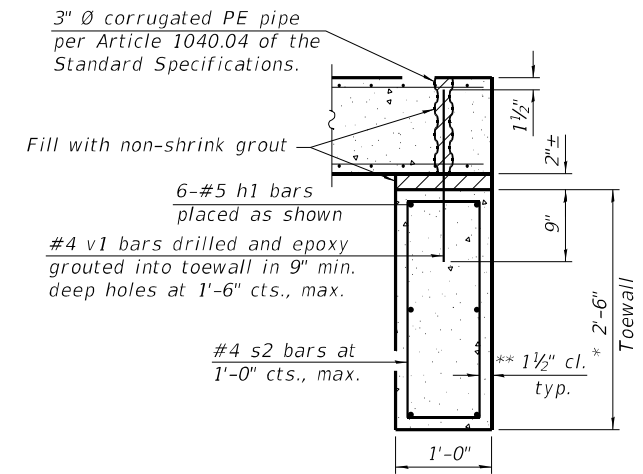


SECTION B-B
(Bottom Slab)

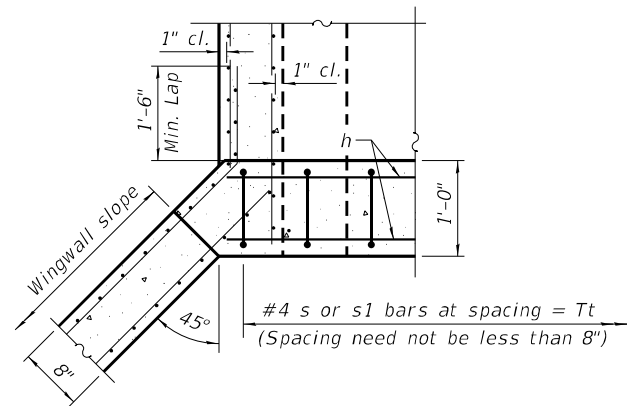
*** This dimension shall be increased by 2" for CIP construction.



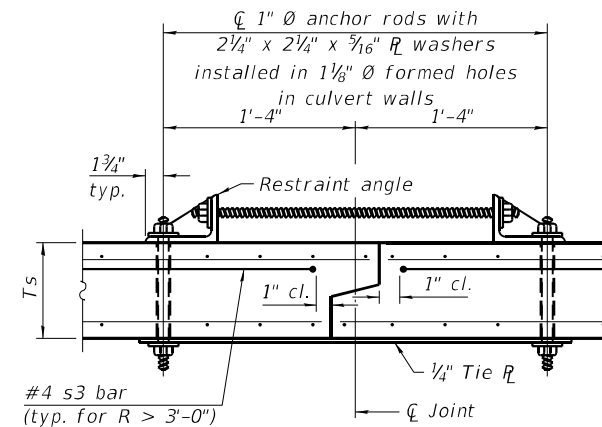
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F
(Showing culvert tie details)

TOEWALL CONSTRUCTION SEQUENCE

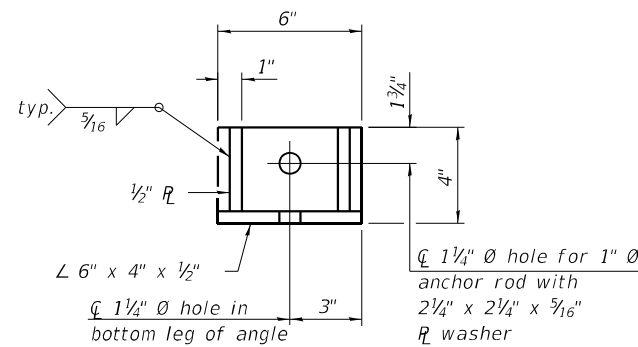
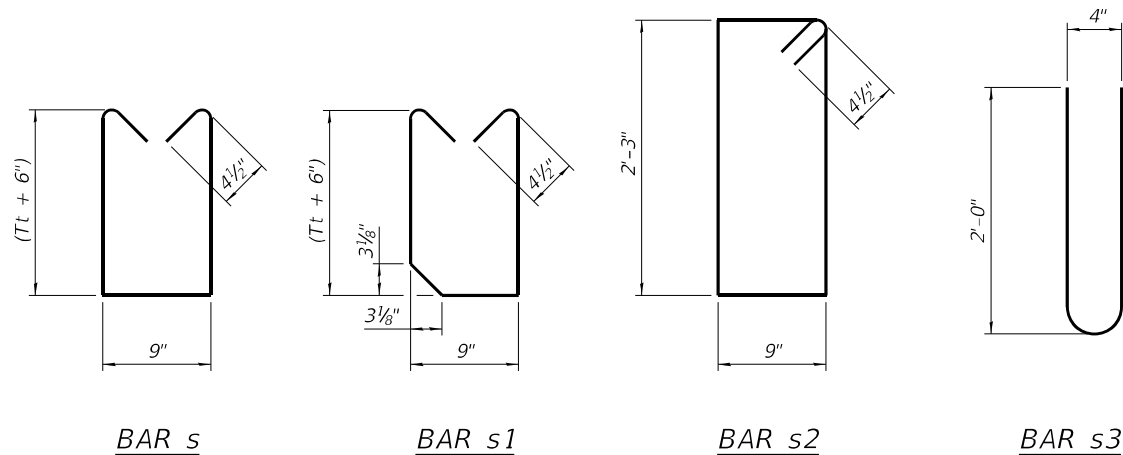
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

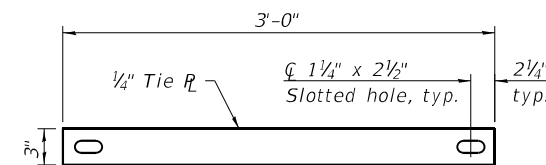
** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

Notes:

1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 3/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL

(Sheet 2 of 2)

* (41-6.41-6-1.41-7)RS-2;BSMART2023

MODEL Default
FILE NAME: ...0275604-sh-detailed.dgn

SCB-AES

2-17-2017

USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:00:06 AM	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

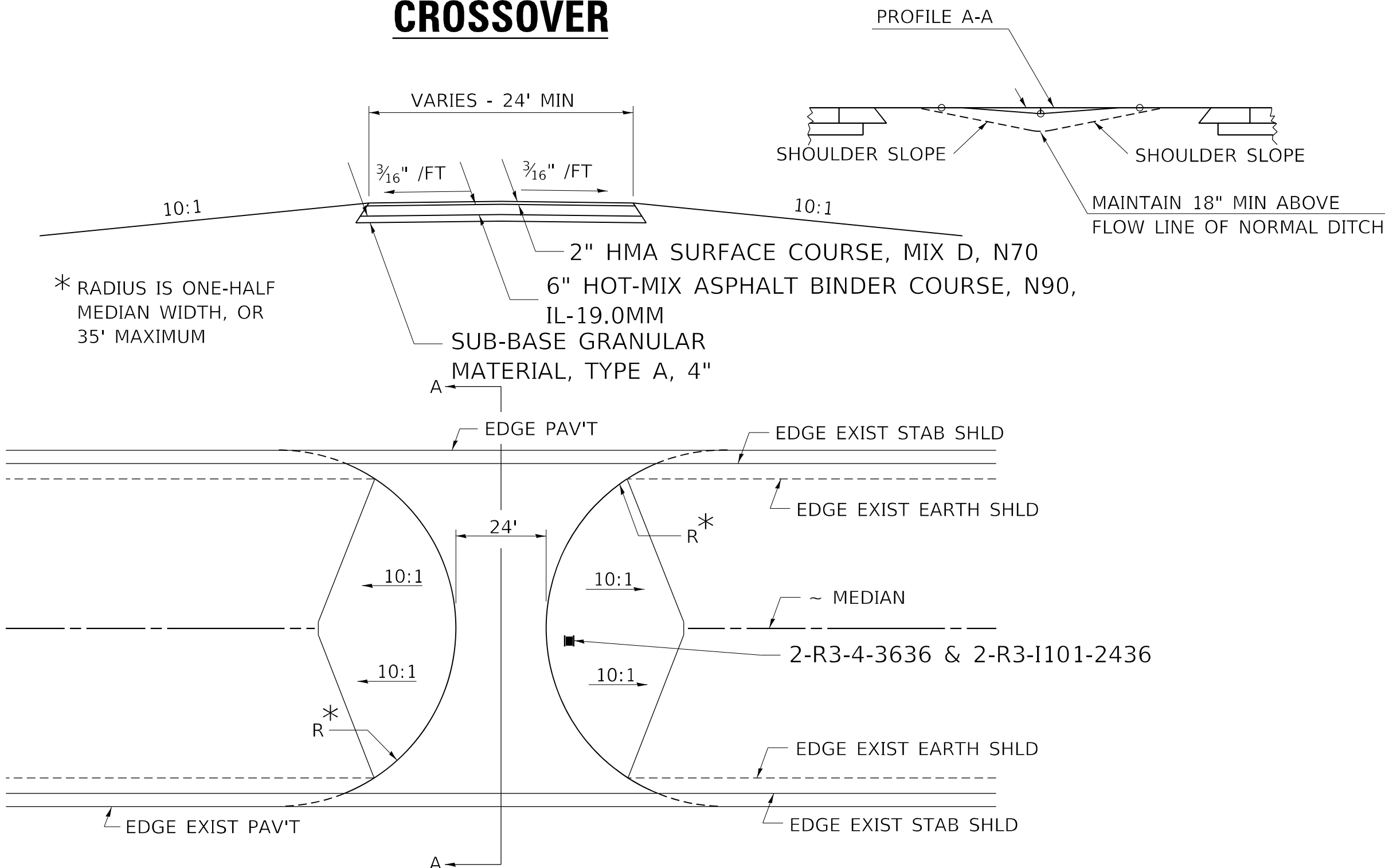
PRECAST CONCRETE BOX CULVERT
APRON END SECTION DETAILS

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	439
CONTRACT NO. 78604				

ILLINOIS FED. AID PROJECT

PROPOSED MEDIAN CROSSOVER



NOTE:

THE PROPOSED CROSSOVER SURFACE SHALL BE BUTTED TO THE EDGE OF THE EXISTING STABILIZED SHOULDER. SEE SHEET NO. __ FOR EARTHWORK SCHEDULE.

REVISIONS

DRAWN	8-30-89
REVISED	01-10-07
REVISED	3-26-08
REVISED	5-17-13
REVISED	10-21-21

STD. 9-55

* (41-6.41-6-1.41-7)RS-2:BSMART2023

MODEL: Default
FILE NAME: ...D078604-sh-detailed.dgn

USER NAME = dhawes	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/4/2022 - 9:00:10 AM	DATE -	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF MEDIAN CROSSOVER

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

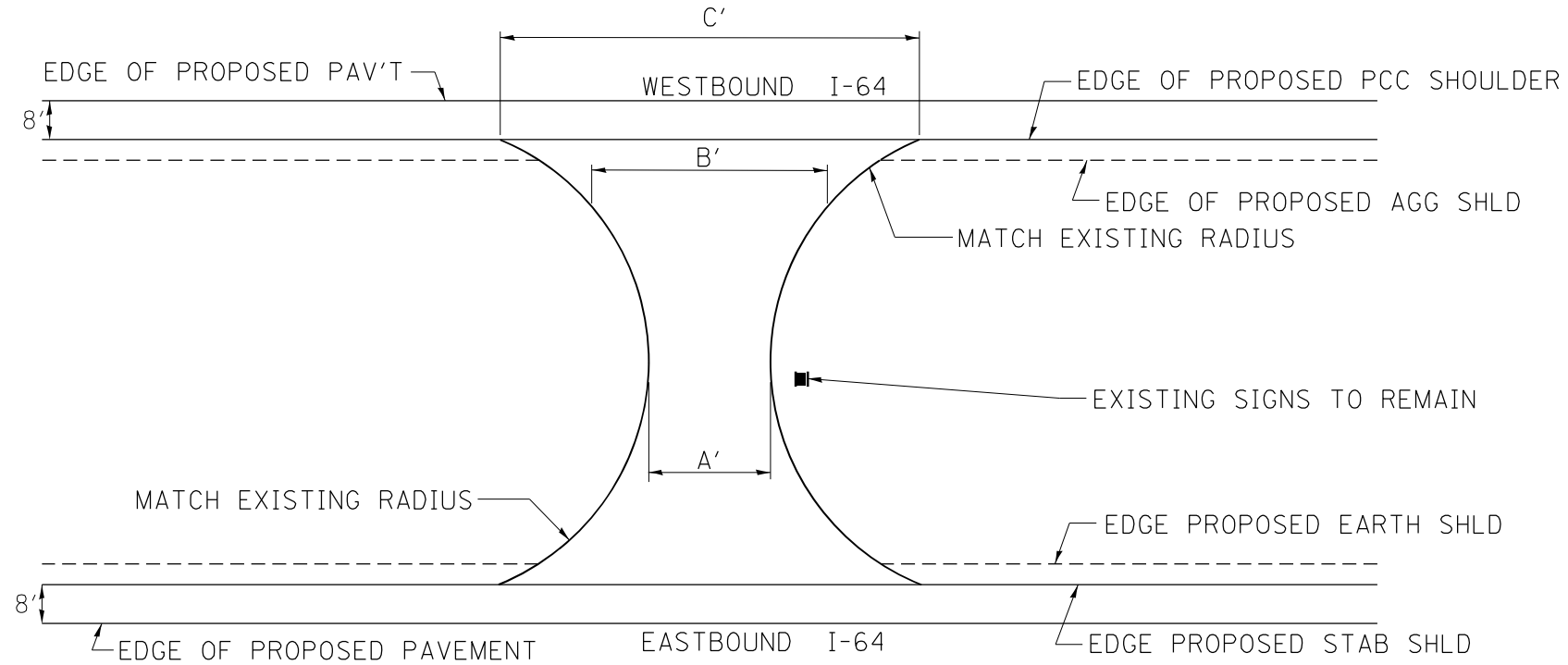
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	440
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

DETAIL OF MEDIAN CROSSOVER

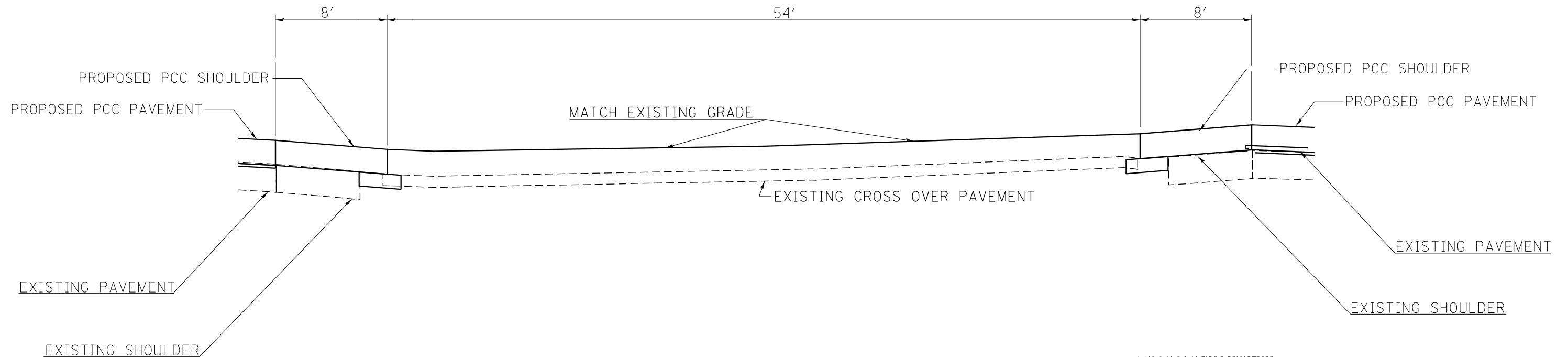
TO BE USED:

STATION	A'	B'	C'
2178+23.58	23.79'	34.57'	59.19'

PLAN VIEW



CROSS SECTION VIEW



MODEL: Default
FILE NAME: ...0278604-sh-detailed.dgn

* (41-6.41-6-1.41-7)RS-2:BSMART2023

USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:00:13 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF MEDIAN CROSSOVER

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

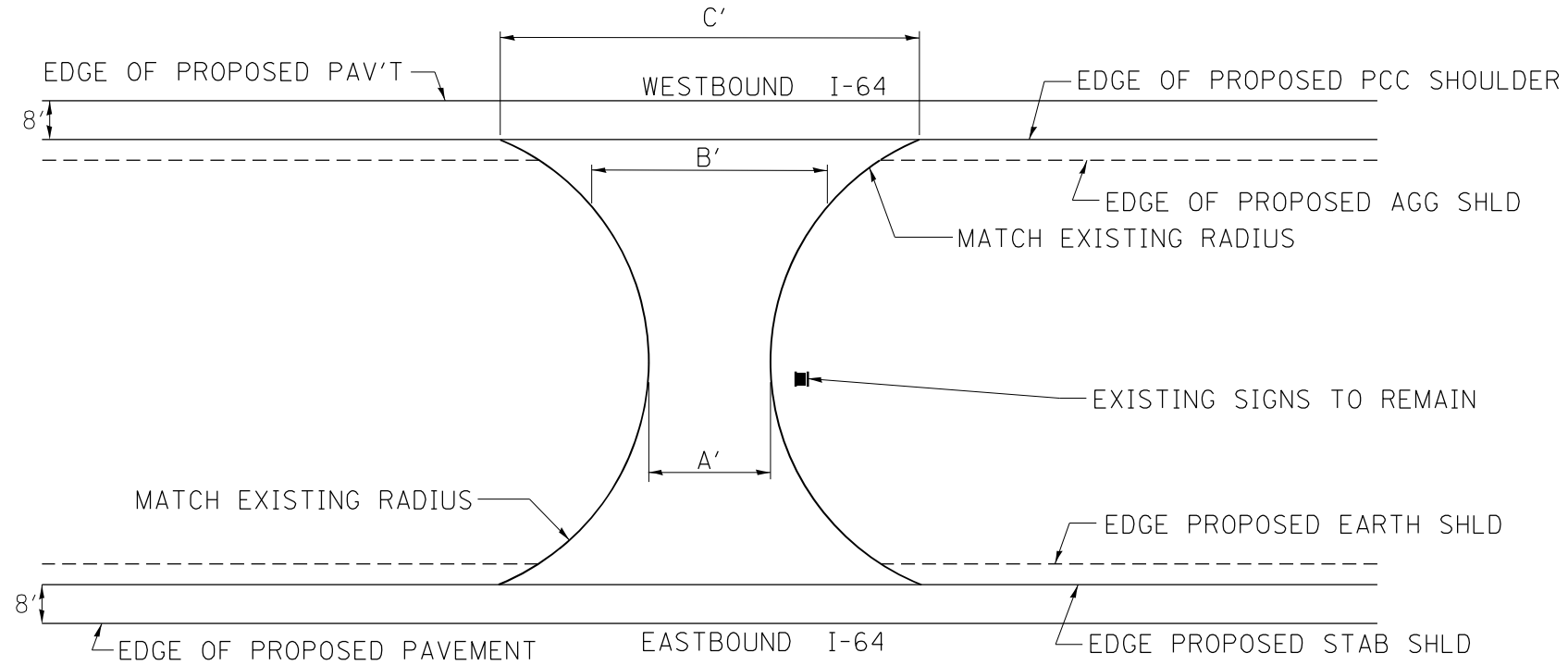
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	441
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

DETAIL OF MEDIAN CROSSOVER

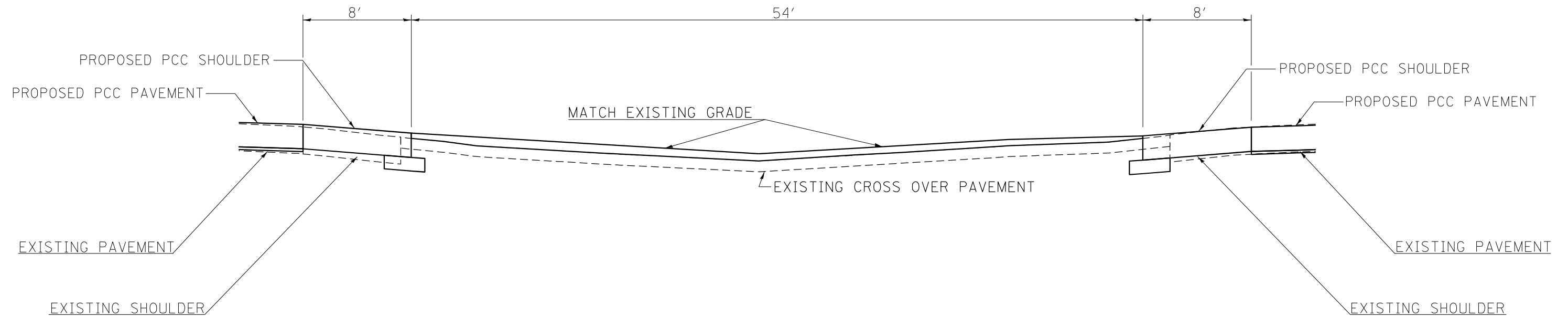
TO BE USED:

STATION	A'	B'	C'
3352+14.08	22.35'	30.55'	41.34'

PLAN VIEW



CROSS SECTION VIEW



MODEL: Default
FILE NAME: ...D:\78604-sh-detailed.dgn

* (41-6.41-6-1.41-7)RS-2:BSMART2023

USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:00:15 AM	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF MEDIAN CROSSOVER

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

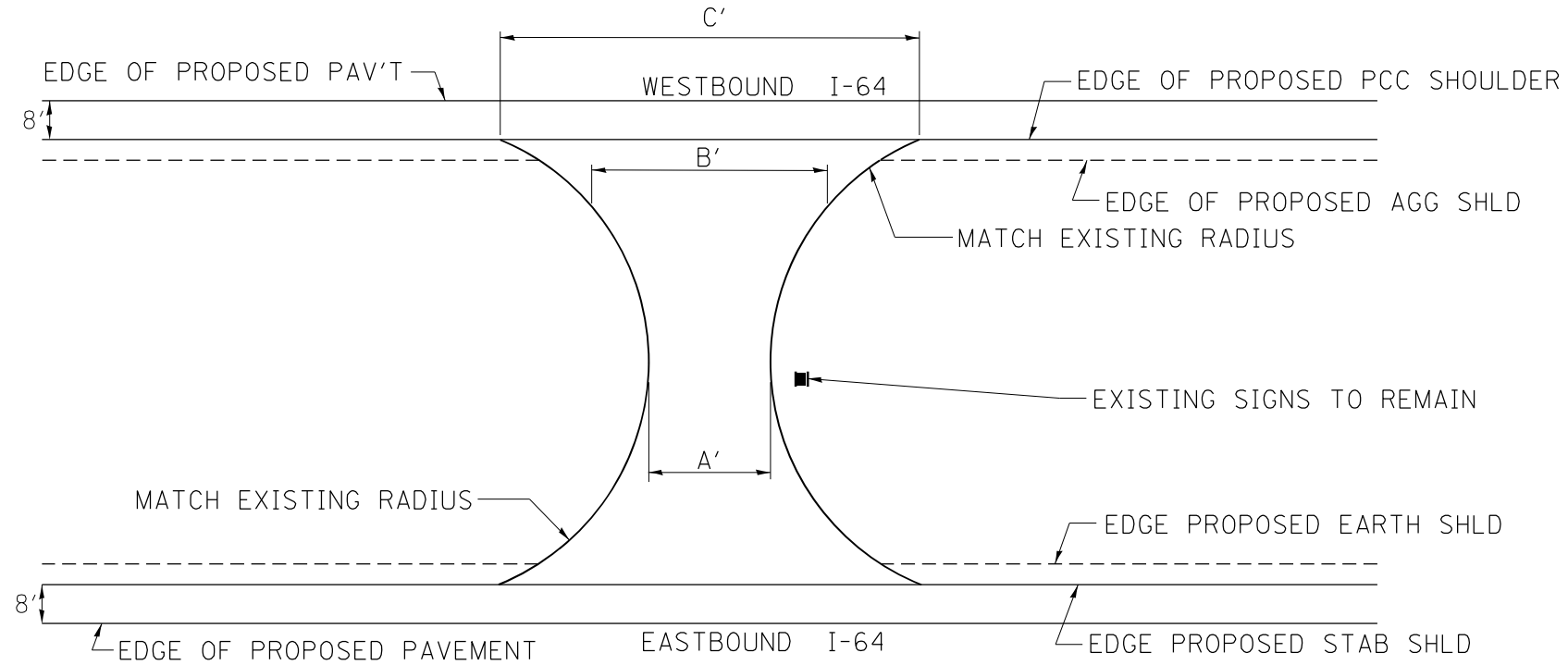
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	442
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

DETAIL OF MEDIAN CROSSOVER

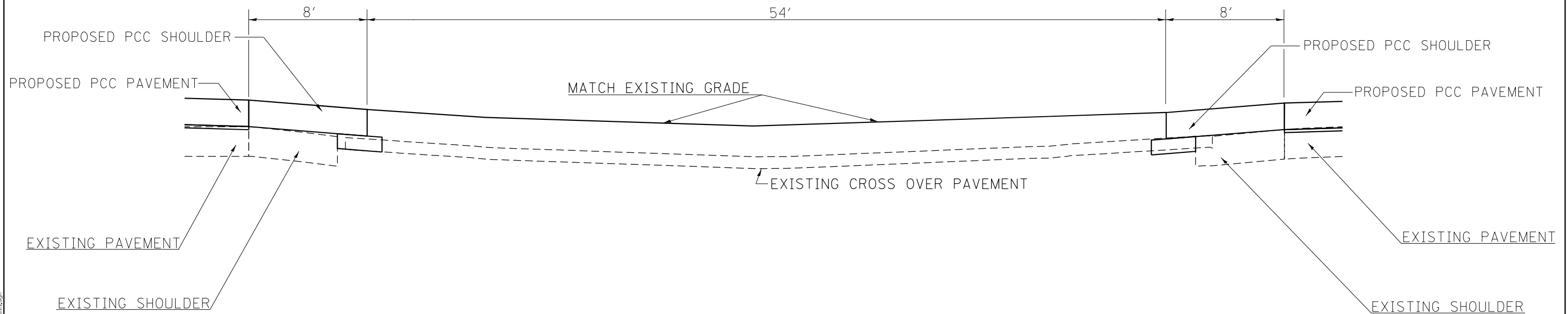
TO BE USED:

STATION	A'	B'	C'
2082+03.30	24.50'	30.75'	49.12'

PLAN VIEW



CROSS SECTION VIEW



MODEL: Default
FILE NAME: ...0278604-sh-detail.dgn

* (41-6.41-6-1.41-7)RS-2:BSMART2023

USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:00:18 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF MEDIAN CROSSOVER

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

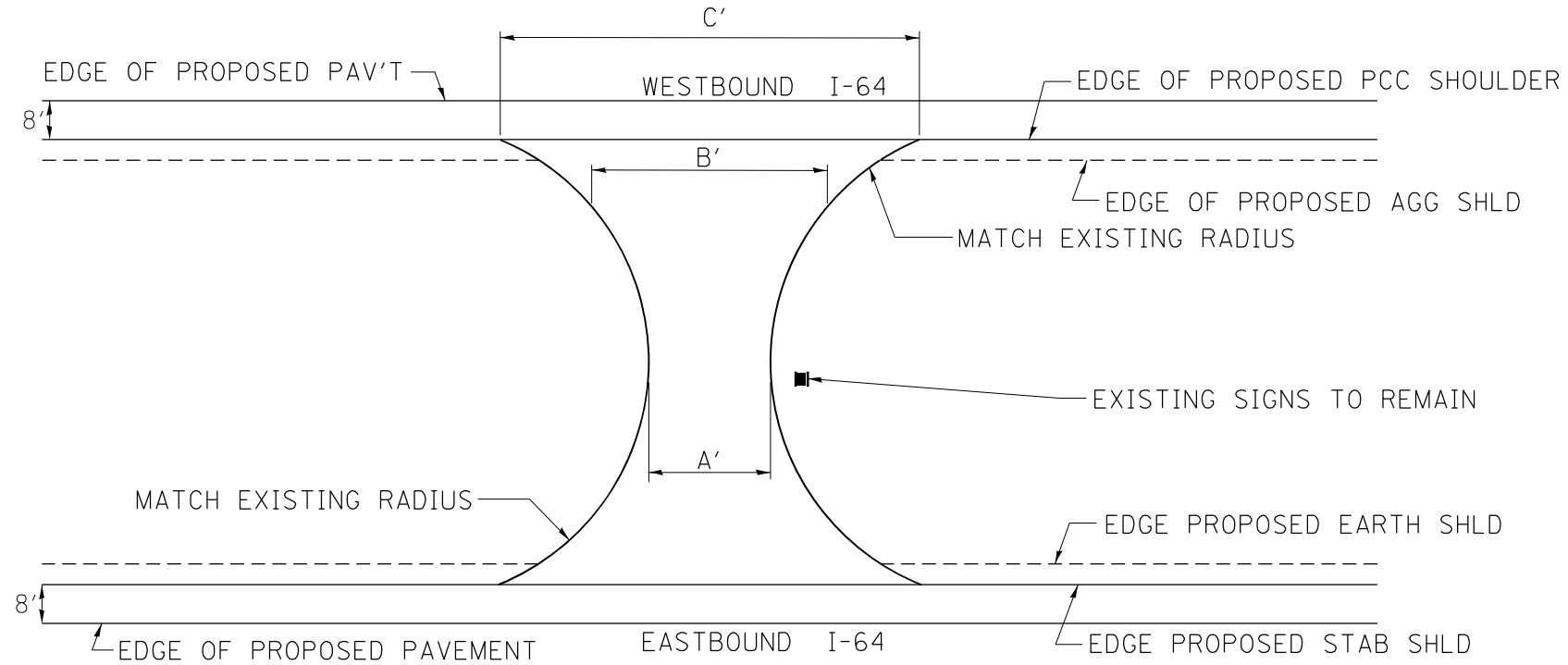
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	443
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

DETAIL OF MEDIAN CROSSOVER

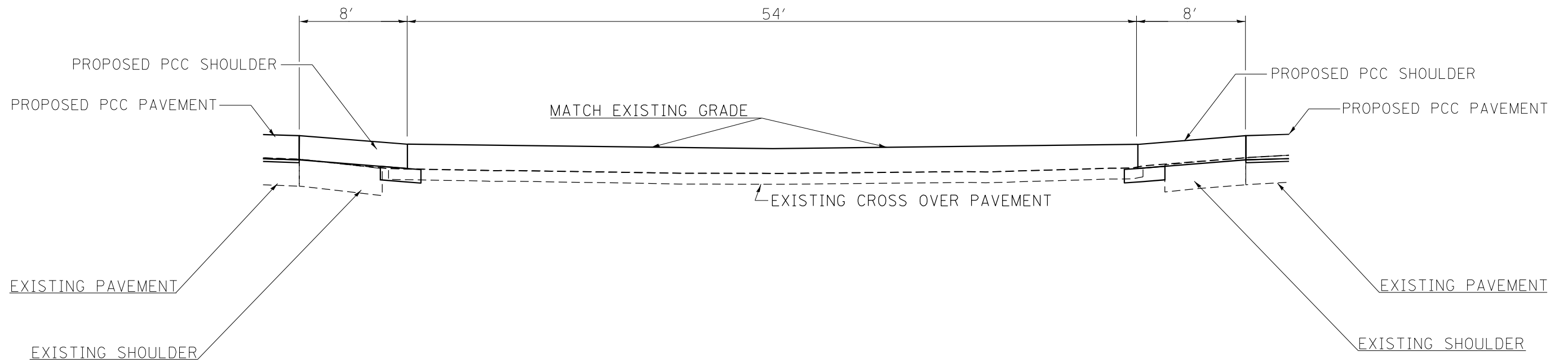
TO BE USED:

STATION	A'	B'	C'
2348+79.69	23.71'	34.42'	56.67'

PLAN VIEW



CROSS SECTION VIEW



MODEL: Default
FILE NAME: ...0275604-sh-detailed.dgn

* (41-6.41-6-1.41-7)RS-2:BSMART2023

USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:00:20 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF MEDIAN CROSSOVER

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

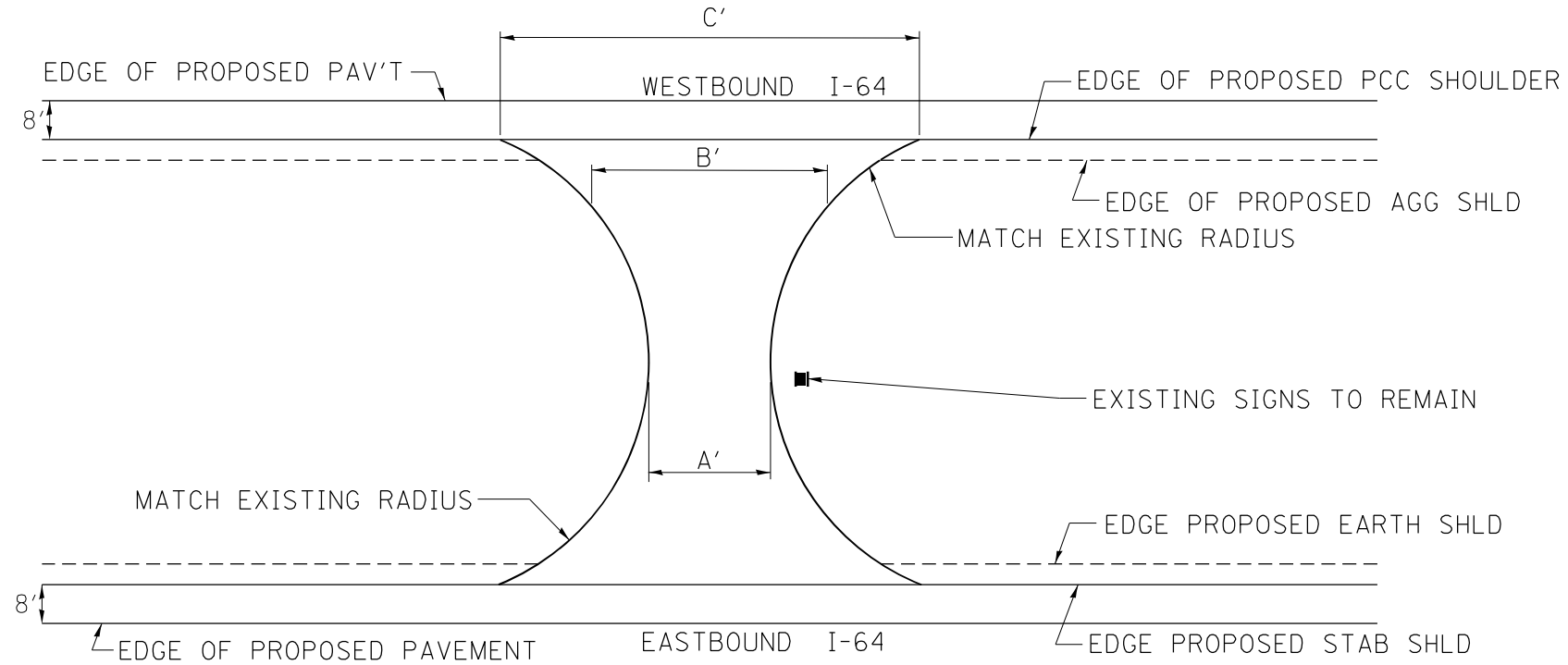
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	444
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

DETAIL OF MEDIAN CROSSOVER

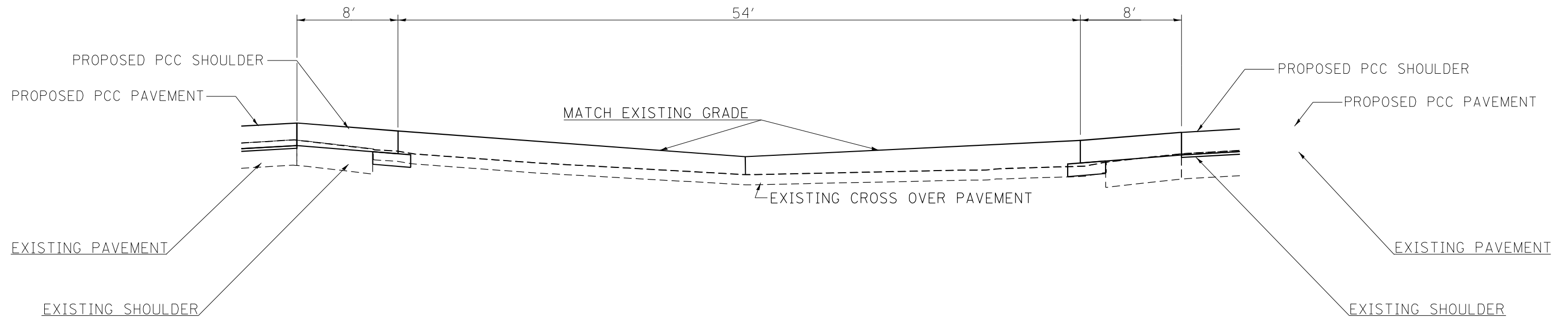
TO BE USED:

STATION	A'	B'	C'
2006+74.34	23.64'	33.52'	57.76'

PLAN VIEW



CROSS SECTION VIEW



MODEL: Default
FILE NAME: ...D:\78604-sh-detailed.dgn

* (41-6.41-6-1.41-7)RS-2:BSMART2023

USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:00:22 AM	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

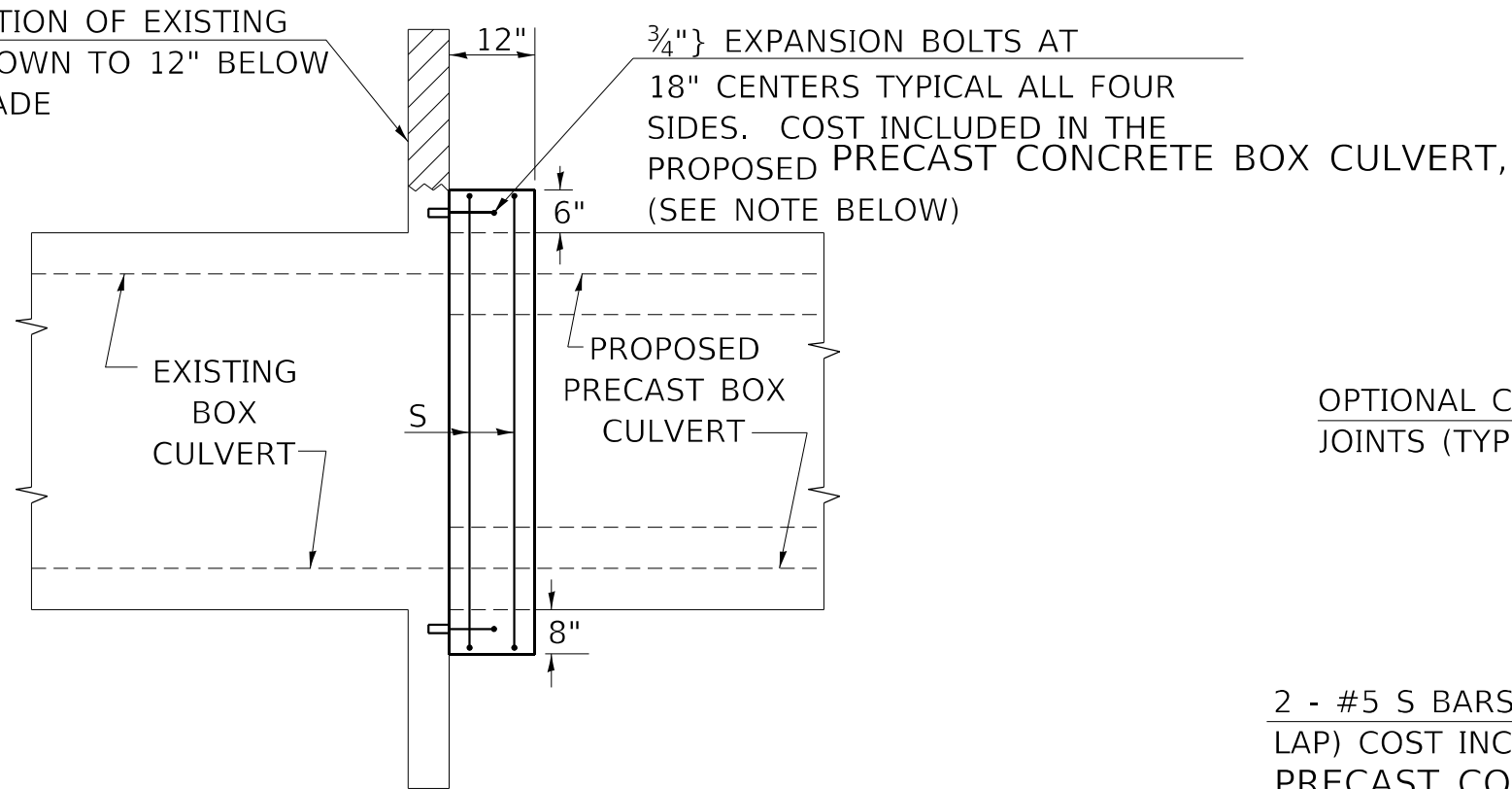
DETAIL OF MEDIAN CROSSOVER

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	445
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

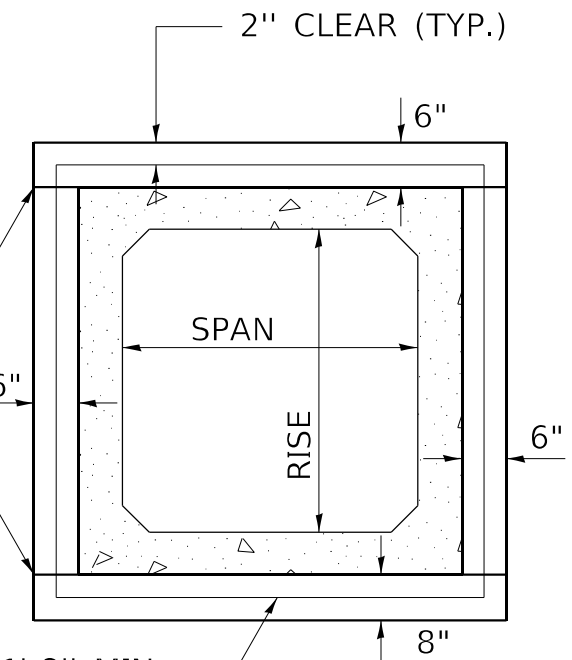
CONCRETE COLLAR FOR PRECAST BOX CULVERT

REMOVE PORTION OF EXISTING HEADWALL DOWN TO 12" BELOW FINISHED GRADE



SIDE VIEW

OPTIONAL CONSTRUCTION JOINTS (TYP.)



END VIEW

2 - #5 S BARS (CONTINUOUS OR 1'-8" MIN LAP) COST INCLUDED IN THE PROPOSED PRECAST CONCRETE BOX CULVERT.

THE CONCRETE COLLAR SHALL BE CONSIDERED INCLUDED IN PRECAST CONCRETE BOX CULVERT, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS OF THE EXISTING HEADWALLS AS MAY BE REQUIRED. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

NOTE:

EXPANSION BOLTS, MEETING THE REQUIREMENTS OF ARTICLE 1006.09, SHALL EXTEND A MINIMUM OF 9" INTO THE NEW CONCRETE. EXPANSION BOLTS SHALL CONSIST OF APPROVED EXPANSION ANCHORS, PROVIDING A MINIMUM CERTIFIED PROOF LOAD OF 4080 POUNDS AND BE 3/4" DIA. HOOKED BOLTS.

TABULATION

(FOR INFORMATION PURPOSES ONLY)

SPAN X RISE	CLASS SI CONC. CU. YD. (EST.)
3' X 2'	0.30
3' X 3'	0.34
4' X 2'	0.36
4' X 3'	0.39
4' X 4'	0.43
5' X 3'	0.45
5' X 4'	0.49
6' X 3'	0.51
6' X 4'	0.54

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
DRAWN	8-15-89	REVISED	3-26-08
REVISED	2-15-90	REVISED	5-17-13
REVISED	8-10-90	REVISED	1-26-16
REVISED	8-19-94	REVISED	10-21-21
REVISED	12-17-01	REVISED	

STD. 9-45

* (41-6.41-6-1.41-7)RS-2:BSMART2023

MODEL: Default
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PLOT DATE = 11/4/2022 - 9:00:24 AM	CHECKED -	REVISED -
	DATE -	REVISED -

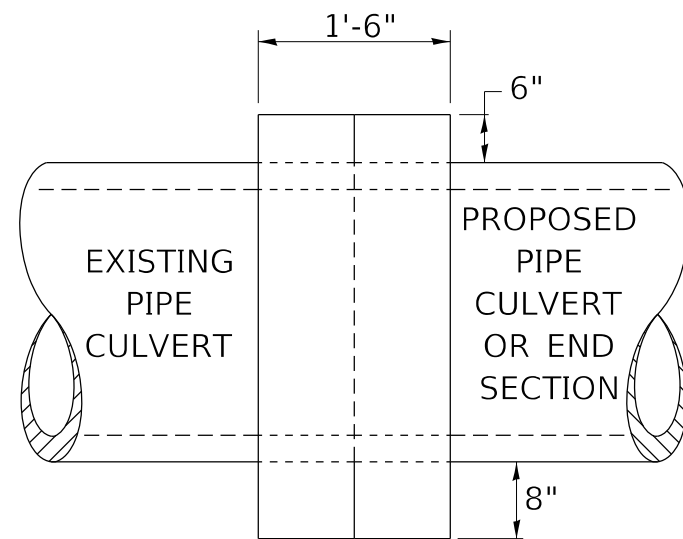
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF CONCRETE COLLAR FOR
PRECAST BOX CULVERT**

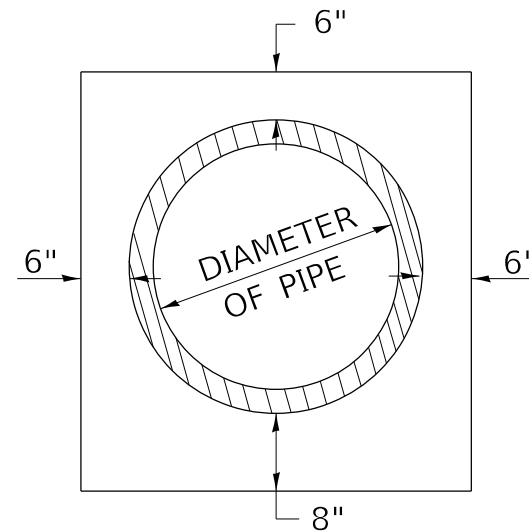
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	446
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

CONCRETE COLLAR PIPE TO PIPE



SIDE VIEW



END VIEW

TABULATION

DIAMETER OF PIPE	CL SI CONC CU YDS EST
12"	0.24
15"	0.29
18"	0.32
24"	0.44
30"	0.56
36"	0.66
42"	0.80
48"	0.93
54"	1.07
60"	1.22
72"	1.55

THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS THE EXISTING HEADWALLS AS MAY BE REQUIRED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

REVISIONS

DRAWN	7-13-90
REVISED	8-22-94
REVISED	3-26-08
REVISED	5-17-13
REVISED	10-21-21

STD. 9-79

* (41-6.41-6-1.41-7)RS-2:BSMART2023

MODEL: Default
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USER NAME = dhawes	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/4/2022 - 9:00:26 AM	DATE -	REVISED -	

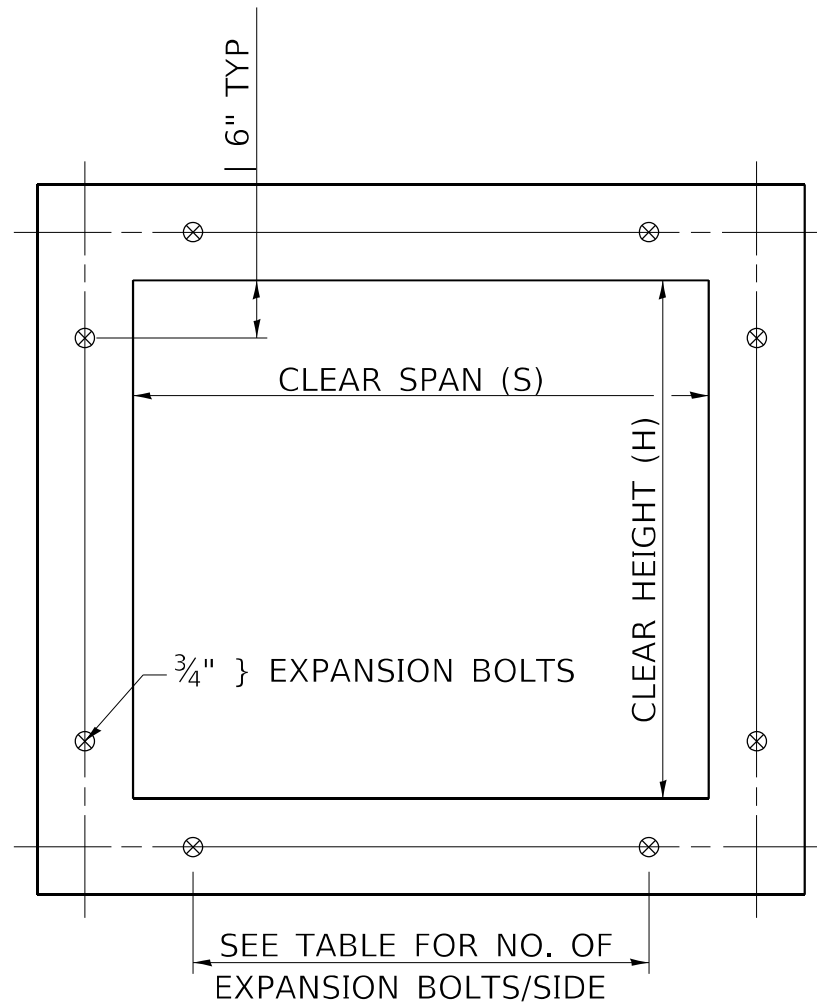
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF CONCRETE COLLAR FOR
PIPE CULVERT**

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	447
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

EXPANSION BOLTS REQUIRED FOR CULVERT EXTENSIONS



EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" DIA. HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE.

MINIMUM CERTIFIED PROOF LOAD=7500 LBS.

BOLTS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR EXPANSION BOLTS, 3/4 INCH.

H OR S	NO. EXPANSION BOLTS REQ'D/SIDE			
	EXTENSION ≤ 15'		EXTENSION >15'	
	NO.	SPACING	NO.	SPACING
2.0	*	*	*	*
2.5	2	18"	2	18"
3.0	2	24"	2	24"
4.0	3	18"	3	18"
5.0	4	16"	3	24"
6.0	5	15"	4	20"
7.0	5	18"	4	24"
8.0	6	17"	5	21"
9.0	6	19"	5	24"
10.0	7	18"	6	21"
11.0	8	17"	6	24"
12.0	8	19"	7	22"

* NOTE: USE MINIMUM OF 1 EXPANSION BOLT AT EACH CORNER.

EXAMPLE:

6' X 4' BOX CULVERT TO BE EXTENDED 18' AT ONE END ONLY.

FROM TABLE FIND:

6' SIDE REQUIRES (4)-3/4" DIA. EXPANSION BOLTS AT 20" CENTERS

4' SIDE REQUIRES (3)-3/4" DIA. EXPANSION BOLTS AT 18" CENTERS

TOTAL NO. REQUIRED

(4+3)2 = (14)-3/4" DIA. EXPAN. BOLTS

CROSS SECTION THRU BARREL

FOR ANCHOR BOLT REQUIREMENTS, SEE ARTICLE 1006.09 OF THE STANDARD SPECIFICATIONS.

REVISIONS

REDRAWN	2-15-89
REVISED	8-15-94
REVISED	12-14-01
REVISED	3-26-08
REVISED	5-16-13
REVISED	10-21-21

STD. 9-9

* (41-6,41-6-1,41-7)RS-2:BSMART2023

MODEL: Default
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	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:00:28 AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF EXPANSION BOLTS REQUIRED
FOR CULVERT EXTENSIONS

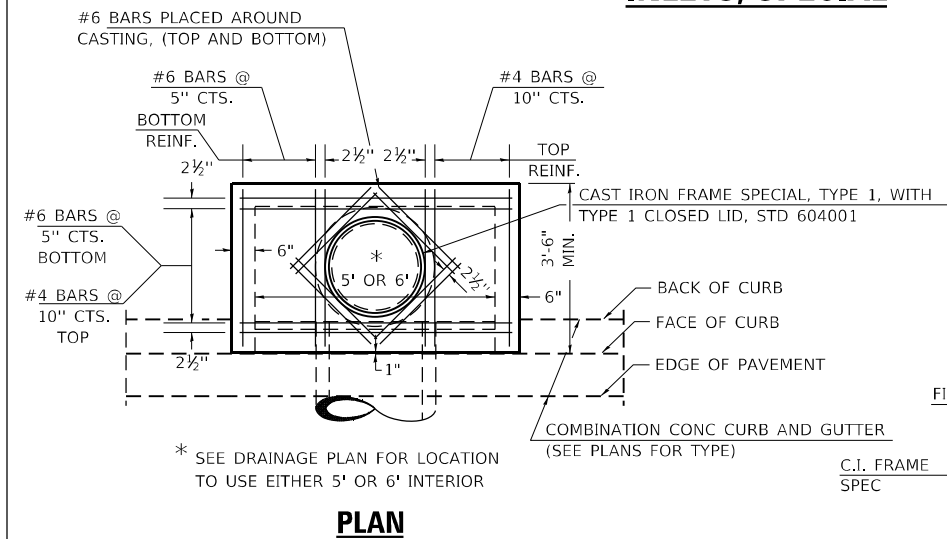
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	448
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

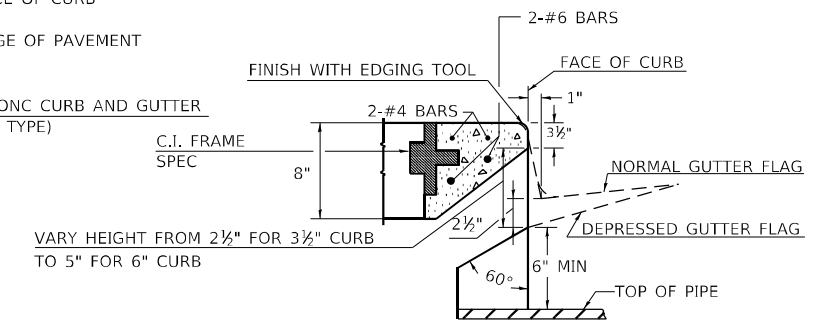
INLETS, SPECIAL

"D" TABLE

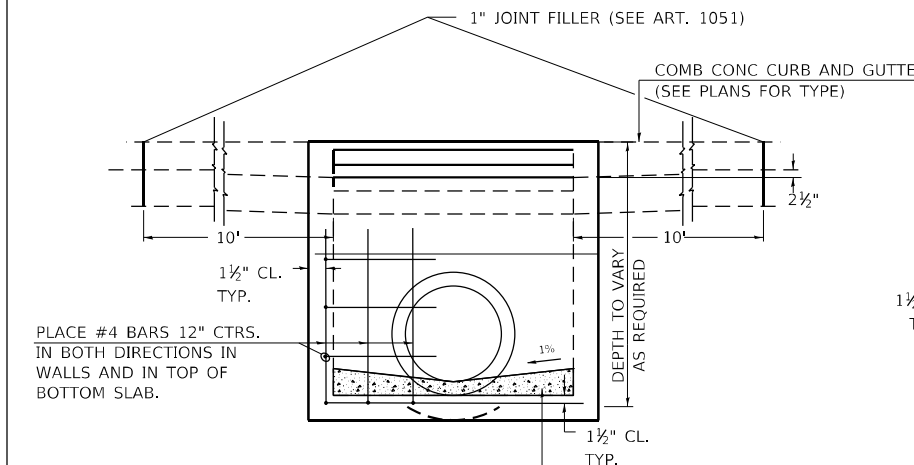
DESIGN	PIPE DIA	"D"
A	18"±.6LESS	2'-6"
B	21"±.624"	3'-0"
C	27"±.630"	3'-7"
D	33"±.636"	4'-2"
E	42"	4'-9"
F	48"	5'-0"
G	54"	6'-1"



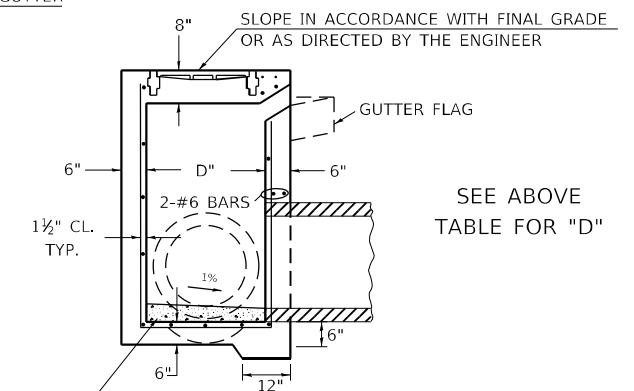
PLAN



SECTION AT WEIR



ELEVATION



SECTION

NOTES:

PROVIDE 1 1/2" CLEARANCE TYP. ALL REINFORCEMENT UNLESS OTHERWISE SPECIFIED.

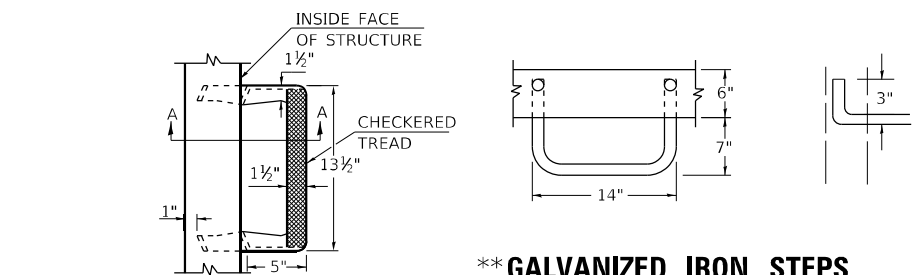
GUTTER FLOWLINE AT INLET 2 1/2" BELOW NORMAL GUTTER FLOWLINE. CONSTRUCT TRANSITION IN FLOWLINE IN 10 FEET EACH SIDE OF INLET. PIPES TO BE CONNECTED TO INLET AS SHOWN ON STORM SEWER LAYOUT.

INLETS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR INLETS, SPECIAL, WHICH PRICE SHALL INCLUDE THE CAST IRON FRAME, SPECIAL, TYPE 1 WITH TYPE 1 CLOSED LID, THE REINFORCEMENT BARS, METAL STEPS AND JOINT FILLER.

IF THE INLET IS NOT CAST IN PLACE THEN THE INLET SHALL BE PRODUCED ACCORDING SECTIONS 602 AND 1042.

** STEPS WILL BE REQUIRED AT 12" SPACING WHEN INLET IS OVER 4' DEEP. SEE ARTICLE 602.08 AND DETAILS

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

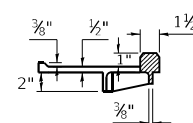


**** GALVANIZED IRON STEPS**

1" ROUND GALVANIZED IRON STEPS 12" O.C. (OPTIONAL STEPS)

**** CAST IRON STEPS**

TREAD DIMENSION DETAILS SEE HWY STD 602701



SEC. A-A

REVISIONS			
REDRAWN	2-15-89	REVISED	3-26-08
REVISED	8-15-94	REVISED	4-10-13
REVISED	1-19-99	REVISED	10-21-21
REVISED	2-5-04	REVISED	

MODEL: Default
FILE NAME: ...D:\78604-sh-detailed.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:00:31 AM	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS OF SPECIAL INLETS

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

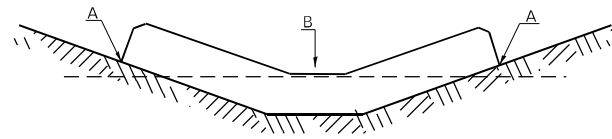
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	449

CONTRACT NO. 78604

ILLINOIS FED. AID PROJECT

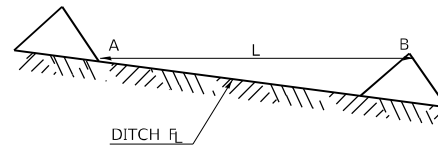
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS



L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

B = THE LOW POINT IN CENTER OF CHECK

REVISIONS	
DRAWN	9-01-99
REVISED	10-3-01
RESIZED	5-8-08
REVISED	05-04-10
REVIEWED	5-17-13
REVISED	10-21-21

STD. 9-108

ENERGY DISSIPATOR

EARTH EXCAVATION FOR ENERGY DISSIPATOR

THIS WORK INVOLVES THE EXCAVATION OF EARTH AS SHOWN IN THE SKETCH TO THE LENGTH, WIDTH, AND DEPTH AS SPECIFIED. THE EARTH EXCAVATION WILL BE UTILIZED IN THE ROADWAY EMBANKMENT OR WASTED AS DIRECTED BY THE ENGINEER. THE EXCAVATION SHALL BE PERFORMED AT THE SAME TIME AS THE CULVERT OR DITCH IS CONSTRUCTED TO SERVE AS A TEMPORARY SEDIMENT TRAP.

EARTHWORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE RIPRAP.

ENERGY DISSIPATOR IS TO BE CONSTRUCTED AT THE LOCATION INDICATED ON THE PLAN AND PROFILE SHEETS.

RIPRAP FOR ENERGY DISSIPATOR

RIPRAP FOR ENERGY DISSIPATOR SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 281 EXCEPT AS REVISED HEREIN.

THE LENGTH, WIDTH, AND DEPTH FOR RIPRAP PLACEMENT SHALL BE AS SPECIFIED IN THESE DETAILS UNLESS OTHERWISE SPECIFIED IN THE PLANS. THE OUTSIDE CORNERS CAN BE ROUNDED OR SQUARED.

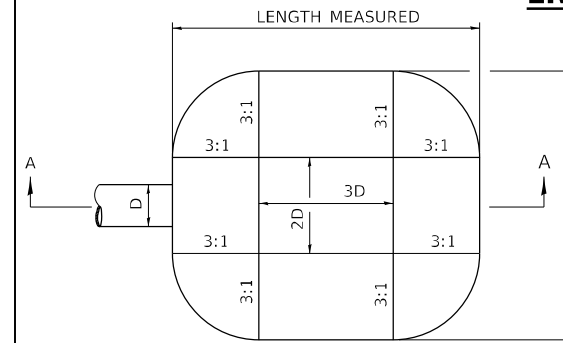
THE RIPRAP FOR THE ENERGY DISSIPATOR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR STONE DUMPED RIPRAP.

THE STONE DUMPED RIPRAP SHALL CONFORM TO THE QUALITY AND GRADATION REQUIREMENTS OF STONE RIPRAP, CLASS A4.

FILTER FABRIC AND BEDDING MATERIAL AS SPECIFIED IN SECTION 281 WILL NOT BE REQUIRED.

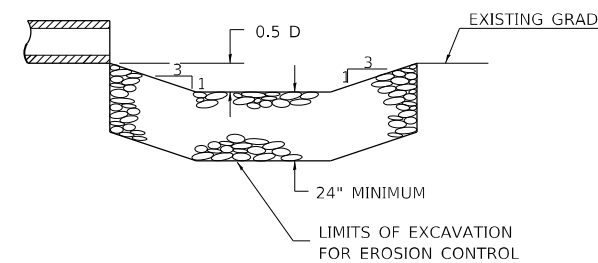
REVISIONS	
REDRAWN	2-15-89
REVISED	11-3-93
REVISED	8-15-94
REVISED	12-14-01
REVISED	3-26-08
REVISED	5-16-13
REVISED	10-21-21

STD 9-6



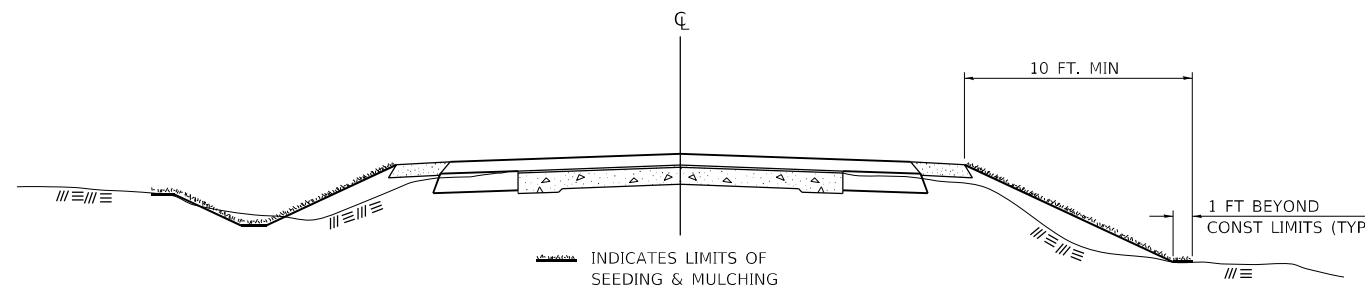
D = INSIDE DIAMETER OF PIPE CULVERT OR CLEAR HEIGHT OF BOX CULVERT

PLAN



SECTION A-A

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

ON DETOUR ROADS, SLOPES SHALL BE SEEDED IMMEDIATELY UPON COMPLETION OF ANY GIVEN STAGE GRADING. TEMPORARY SEEDING SHALL BE CLASS 7.

FERTILIZER NUTRIENTS SHALL BE APPLIED TO ALL SEEDED AREAS. LIMESTONE SHALL BE APPLIED TO ALL AREAS OF FINAL SEEDING.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION.

SECTIONS 250 AND 251 SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08
REVISED	5-16-13
REVISED	10-21-21

STD. 9-12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS OF EROSION CONTROL ITEMS

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

* (41-6.41-6-1.41-7)RS-2;BSMART2023

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	DRAWN -	REVISED -
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PLOT DATE = 11/4/2022 - 9:00:33 AM	DATE -	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	450
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

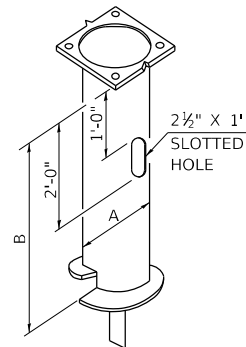
LIGHT POLE FOUNDATION

BOLT CIRCLE	A	B	MOUNTING HEIGHT
1'-3"	10"	6'-0"	45'-0" OR 50'-0" *
1'-3"	8"	6'-0"	45'-0"
11"	8"	6'-0"	40'-0" OR LESS

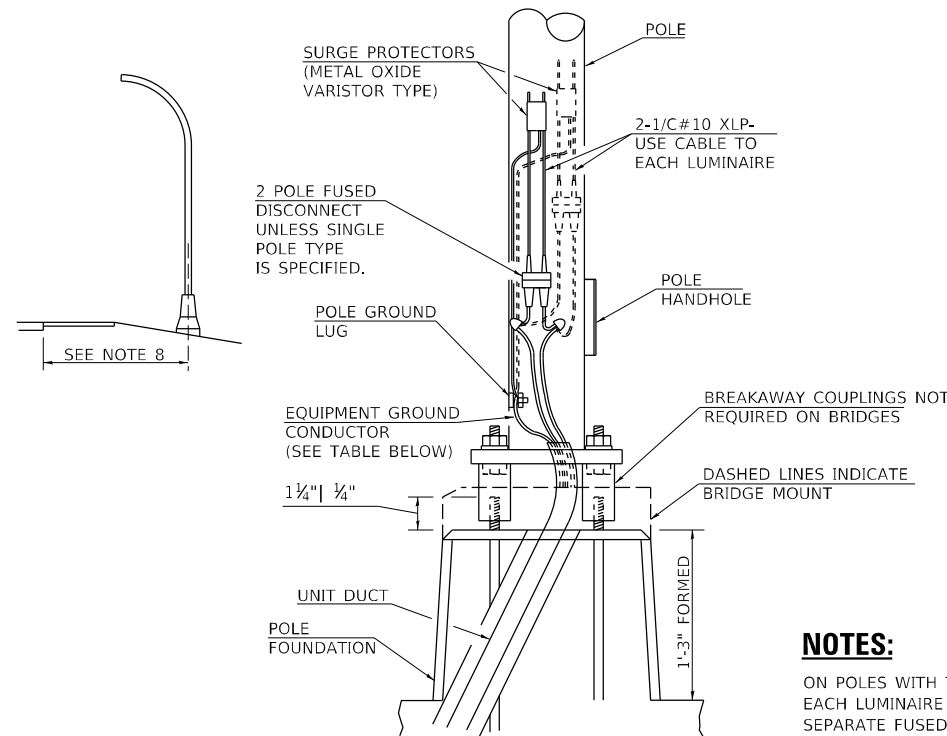
HEIGHT	DEPTH	BOLT CIRCLE
30'-0"	5'-0"	11"
31'-0" - 35'-0"	6'-0"	11"
36'-0" - 40'-0"	7'-0"	1'-3"
41'-0" - 45'-0"	7'-6"	1'-3"
46'-0" - 50'-0"	8'-0"	1'-3"

* FOR USE ON POLES W/TWIN TENON

** MINIMUM TORQUE REQ'D TO INSTALL FOUNDATIONS SHALL BE 5,000 LBS



STEEL POLE FOUNDATION



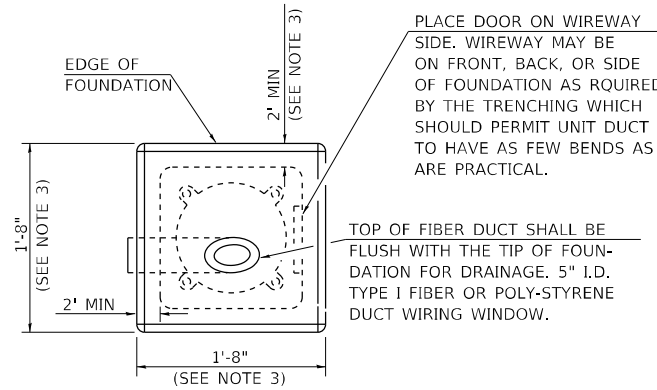
BREAKER SIZE	CONDUCTOR SIZE
30 AMP.	#10 COPPER
40 AMP.	#10 COPPER
60 AMP.	#10 COPPER
100 AMP.	#8 COPPER

NOTES:

ON POLES WITH TWO LUMINAIRES, EACH LUMINAIRE SHALL HAVE A SEPARATE FUSED DISCONNECT.

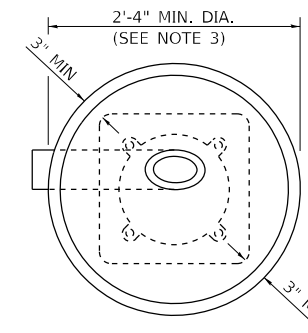
INSTALLATION INSTRUCTIONS:

SCREW COUPLINGS ON TO ANCHOR BOLTS TO END OF THREADS, LEVEL COUPLINGS, VERY IMPORTANT, AS COUPLINGS WILL BECOME OVER-STRESSED AND EITHER CRACK OR STRIP THREADS INSIDE COUPLING.

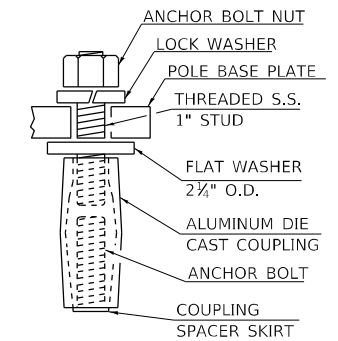


PLACE DOOR ON WIREWAY SIDE. WIREWAY MAY BE ON FRONT, BACK, OR SIDE OF FOUNDATION AS REQUIRED BY THE TRENCHING WHICH SHOULD PERMIT UNIT DUCT TO HAVE AS FEW BENDS AS ARE PRACTICAL.

TOP OF FIBER DUCT SHALL BE FLUSH WITH THE TIP OF FOUNDATION FOR DRAINAGE. 5" I.D. TYPE I FIBER OR POLY-STYRENE DUCT WIRING WINDOW.



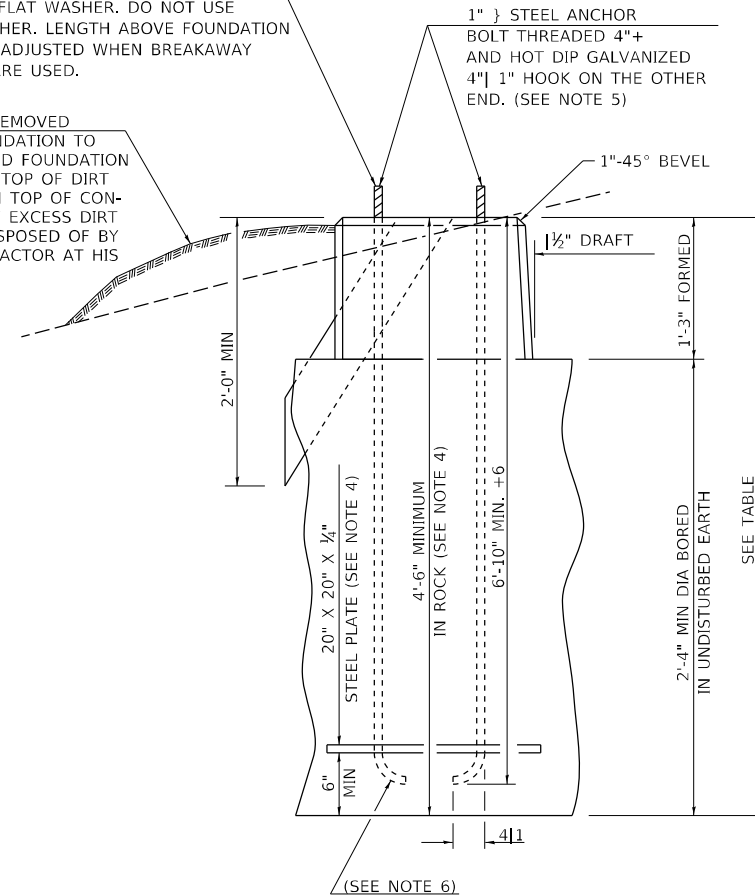
ALT. FOUNDATION



TYP. COUPLING

ANCHOR BOLT SHALL EXTEND THROUGH NUT 3/8" TO 1". USE SELF-LOCKING NUT AND FLAT WASHER. DO NOT USE LOCK-WASHER. LENGTH ABOVE FOUNDATION SHALL BE ADJUSTED WHEN BREAKAWAY DEVICES ARE USED.

USE DIRT REMOVED FROM FOUNDATION TO FILL AROUND FOUNDATION TOP. MAKE TOP OF DIRT LEVEL WITH TOP OF CONCRETE. ANY EXCESS DIRT WILL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.



GENERAL NOTES

- AFTER POURING CONCRETE, THE FORM SHALL REMAIN UNDISTURBED OVERNIGHT.
- THE TOP 15" ONLY SHALL BE FORMED. CONCRETE BOUNDED BY UNDISTURBED EARTH ONLY SHALL FILL THE REMAINDER OF THE HOLE.
- MINIMUM CLEARANCE FROM THE OUTSIDE EDGE OF FOUNDATION TO ANY PART OF THE POLE BASEPLATE SHALL BE 3".
- THE DEPTH OF THE FOUNDATION MAY BE REDUCED 6" FOR EVERY 12" OF ROCK ENCOUNTERED WITH A MINIMUM DEPTH OF 4'-6". WHEN THE DEPTH OF THE FOUNDATION IS DECREASED TO LESS THAN 6' THE ANCHOR BOLTS SHALL BE CUT, THREADED, AND A STEEL PLATE 20" X 20" X 1/4" SHALL BE INSTALLED ON THE ANCHOR BOLTS 6" ABOVE THE BOTTOM OF THE EXCAVATION. THE COST SHALL BE INCIDENTAL TO THE FOUNDATION.
- ON PARAPET WALLS USE 1 1/4" DIA. ANCHOR BOLTS. USE SELF-LOCKING NUT AND FLAT WASHER. DO NOT USE LOCKWASHER. (FOR DETAILS SEE STANDARD III/2.35 OF BRIDGE DESIGN MANUAL.
- BEND RADIUS SHALL BE FOUR TIMES BOLT DIAMETER.
- CONNECT GROUND WIRES TO POLE BASE GROUND LUG, NOT ANCHOR BOLTS OR TRANSFORMER BASE.
- LOW MOUNT POLE FOUNDATION SETBACK: FOR HORIZONTAL MOUNTED LUMINAIRES, SETBACK SHALL BE A MINIMUM OF 20' FROM EDGE OF PAVEMENT.

FOR VERTICAL MOUNT LUMINAIRES, SETBACK SHALL BE A MINIMUM OF 30' FROM EDGE OF PAVEMENT. POLES SHALL BE LOCATED 5' BEHIND GUARDRAIL OR OTHER PROTECTIVE BARRIERS, OR AS DIRECTED BY THE ENGINEER.

METAL OR CONCRETE

NO.	DATE	DESCRIPTION
DRAWN	2-9-01	
REVISED	5-13-02	
REVISED	01-16-07	
REVISED	05-6-08	
REVISED	5-17-13	
REVISED	10-21-21	

* (41-6,41-6-1,41-7)RS-2:BSMART2023 STD. 9-114

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	DATE	REVISED

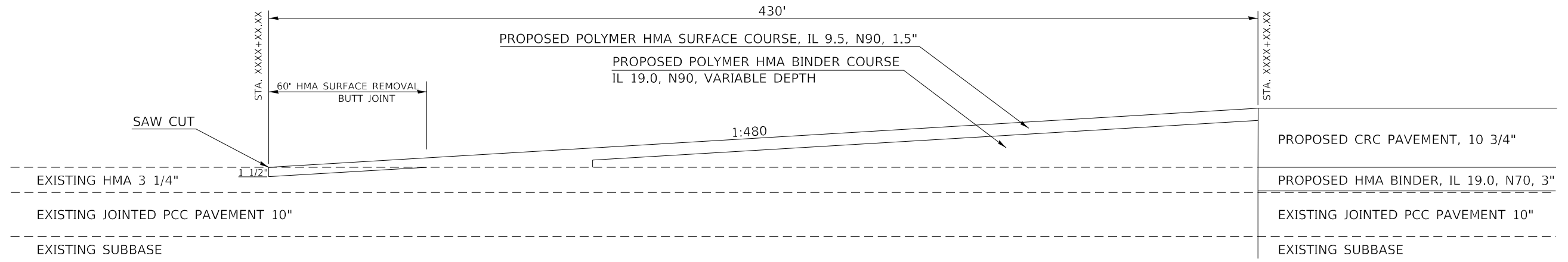
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF LIGHT POLE FOUNDATION

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	451
				CONTRACT NO. 78604
		ILLINOIS	FED. AID PROJECT	

PAVEMENT TRANSITION ON PROJECT TERMINI



NOTES

THE 1:480 TAPER SHALL GOVERN OVER DIMENSIONS SHOWN IN THE PLANS. LENGTH MAY NEED TO BE ADJUSTED BY THE ENGINEER.

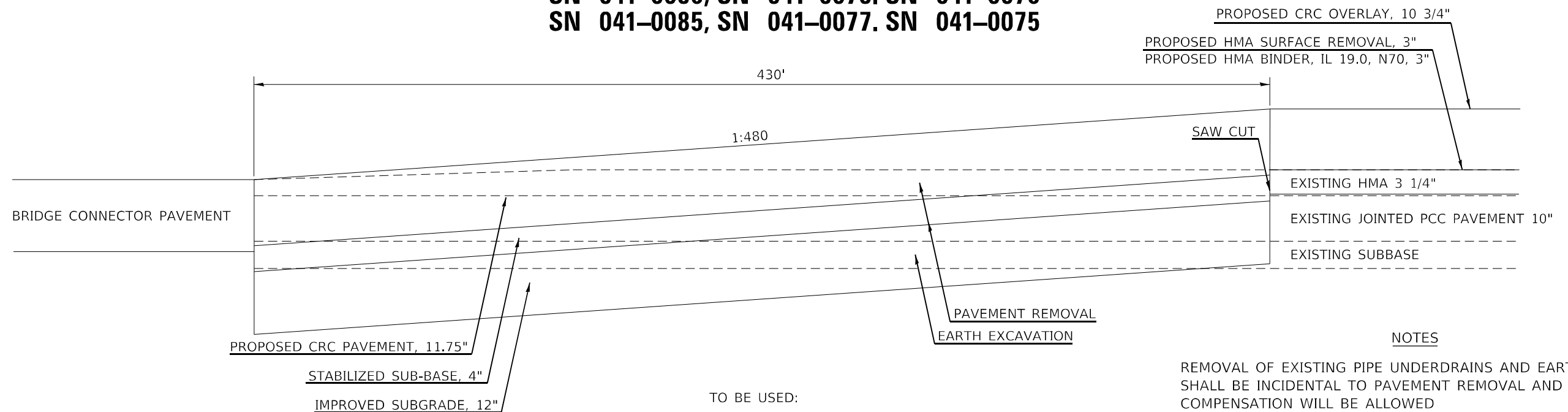
THE COST OF THE SAWCUT SHALL BE INCLUDED IN THE COST OF THE BITUMINOUS SURFACE REMOVAL - BUTT JOINT 1 1/2"

TO BE USED:

STA. 3351+52.55 TO STA. 3355+81.62
STA. 2356+79.03 TO STA. 2361+09.03

PAVEMENT REPLACEMENT TRANSITION @ AT-GRADE STRUCTURES

SN 041-0086, SN 041-0078, SN 041-0076
SN 041-0085, SN 041-0077, SN 041-0075



NOTES

REMOVAL OF EXISTING PIPE UNDERDRAINS AND EARTH EXCAVATION SHALL BE INCIDENTAL TO PAVEMENT REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED

THE 1:480 TAPER SHALL GOVERN OVER DIMENSIONS SHOWN IN THE PLANS. LENGTH MAY NEED TO BE ADJUSTED BY THE ENGINEER.

SAW CUT INCLUDED IN THE COST OF PAVEMENT REMOVAL.

TO BE USED:

STA. 1885+67.75 TO STA. 1889+97.75
STA. 1891+90.25 TO STA. 1896+20.25
STA. 2026+54.15 TO STA. 2030+84.15
STA. 2034+02.24 TO STA. 2038+32.24
STA. 2193+67.69 TO STA. 2197+98.00
STA. 2200+22.00 TO STA. 2204+52.00

* (41-6.41-6-1.41-7)RS-2:BSMART2023

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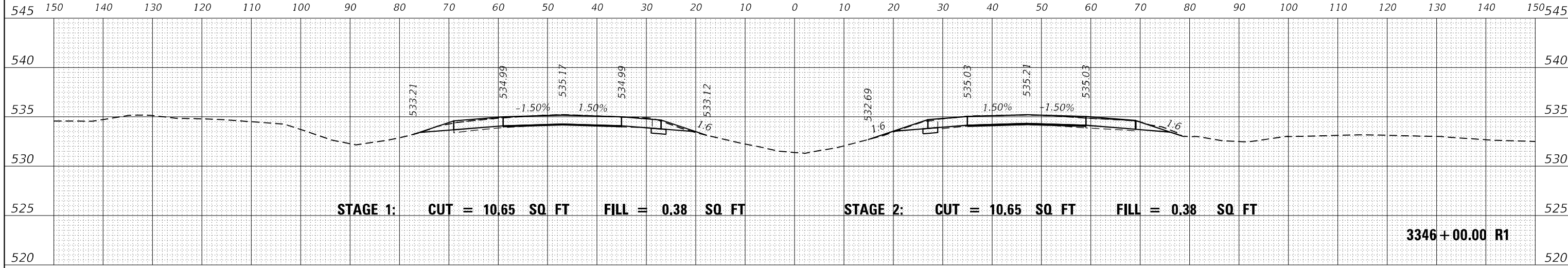
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRANSITION DETAILS

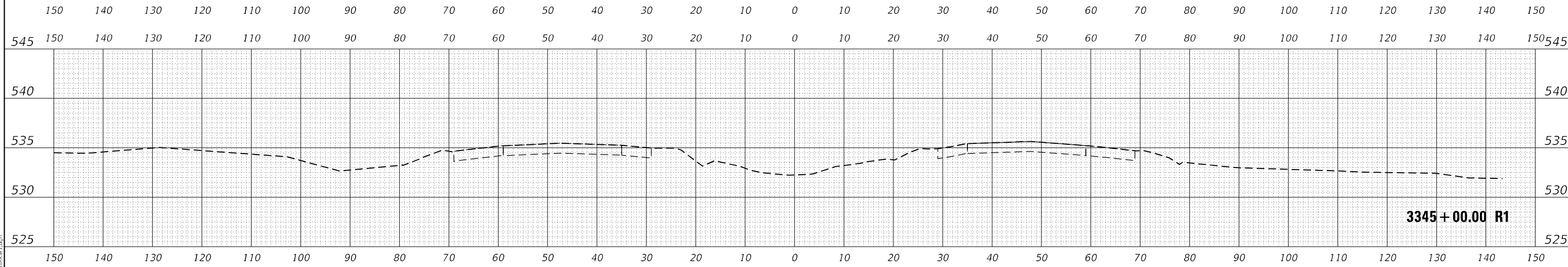
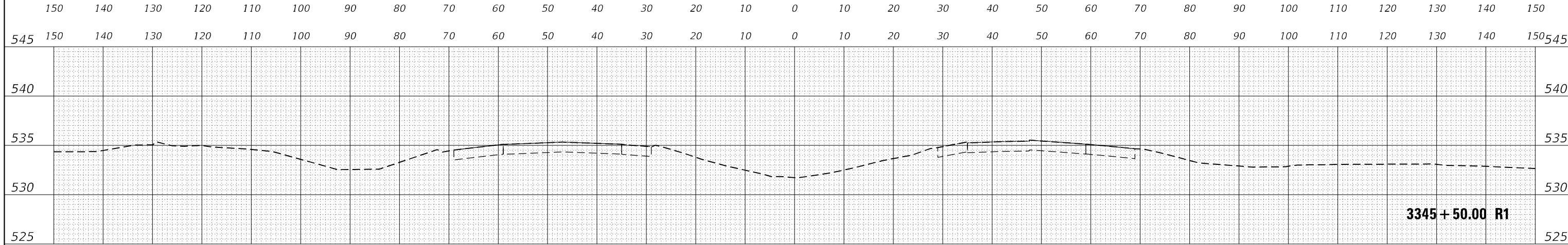
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	*	JEFFERSON	1052	452
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

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



DATE	
BY	
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NO.	TEMPLATE
	AREAS
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 64
CROSS SECTIONS**

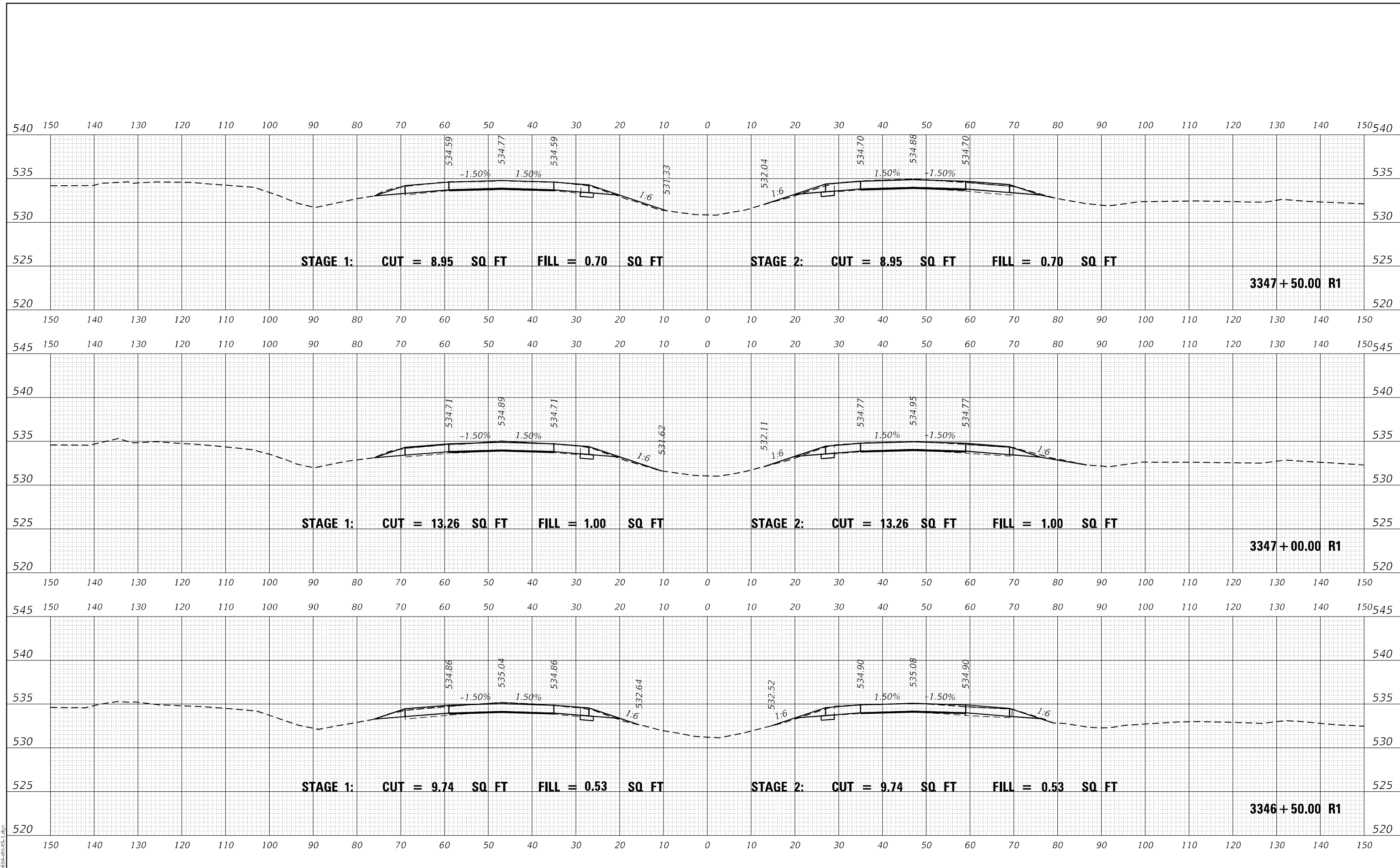
SCALE: 50 SHEET OF SHEETS STA. 3345+00.00 R1 TO STA. 3346+00.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	453
CONTRACT NO. 78604				

(41-6,41-6-1,41-7)RS-2;BSMART 2023

DATE	
BY	
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NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

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NO.	AREAS CHECKED



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

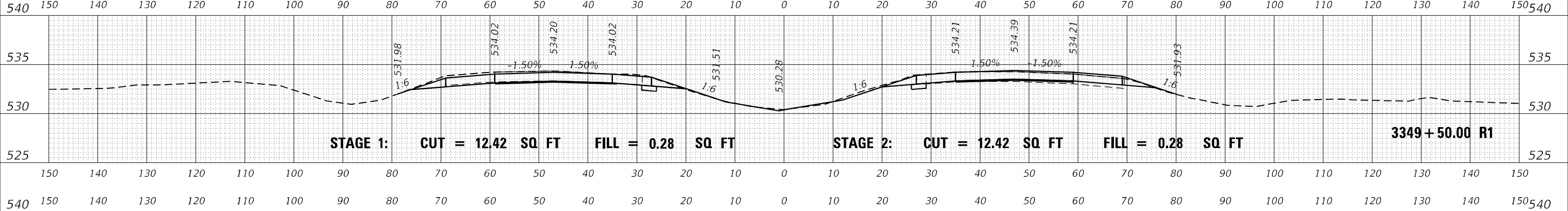
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3346+50.00 R1 TO STA. 3347+50.00 R1

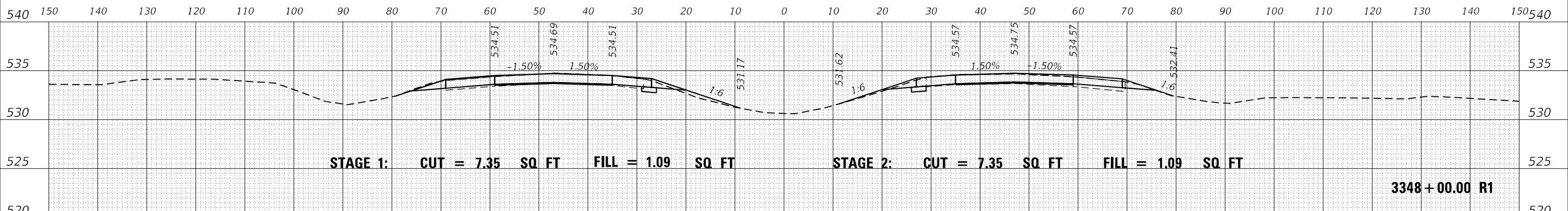
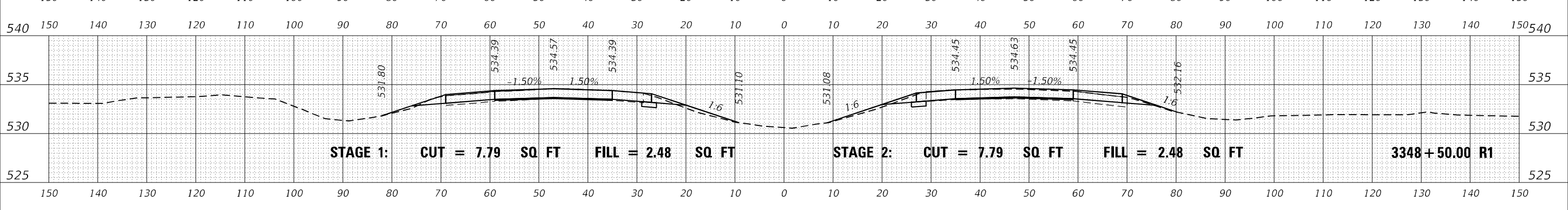
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	454
			CONTRACT NO. 78604	

(41-6,41-6-1,41-7)RS-2;BSMART 2023

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



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 64
CROSS SECTIONS**

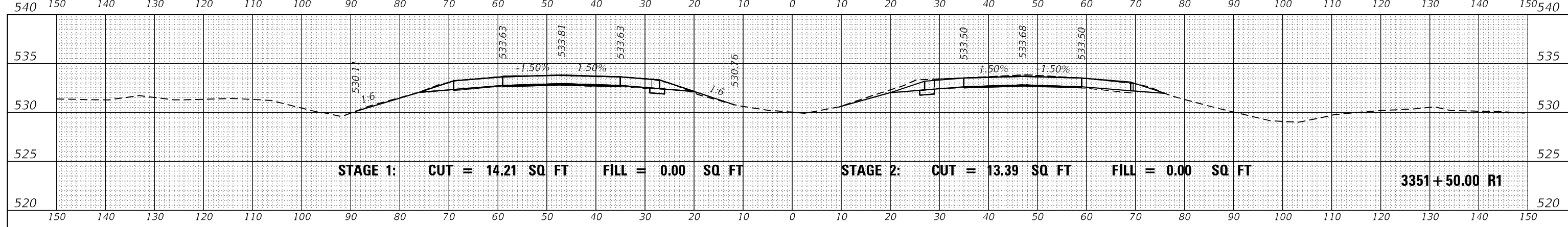
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	455
CONTRACT NO. 78604				

(41-6,41-6-1,41-7)RS-2;BSMART 2023

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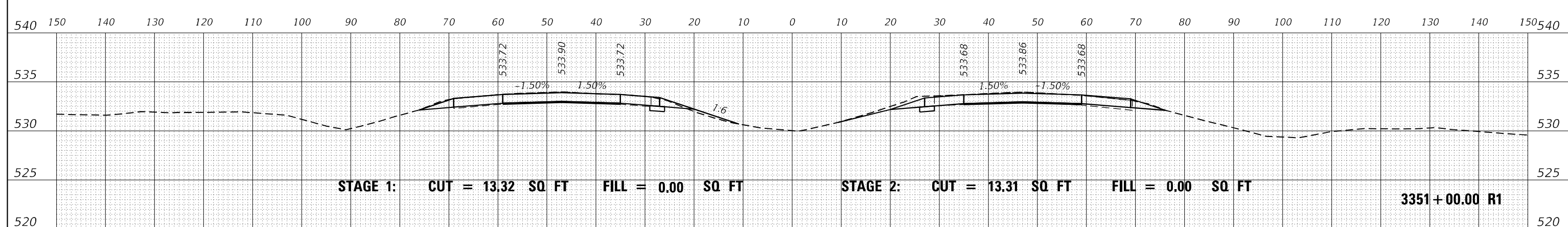
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



STAGE 1: CUT = 14.21 SQ FT FILL = 0.00 SQ FT

STAGE 2: CUT = 13.39 SQ FT FILL = 0.00 SQ FT

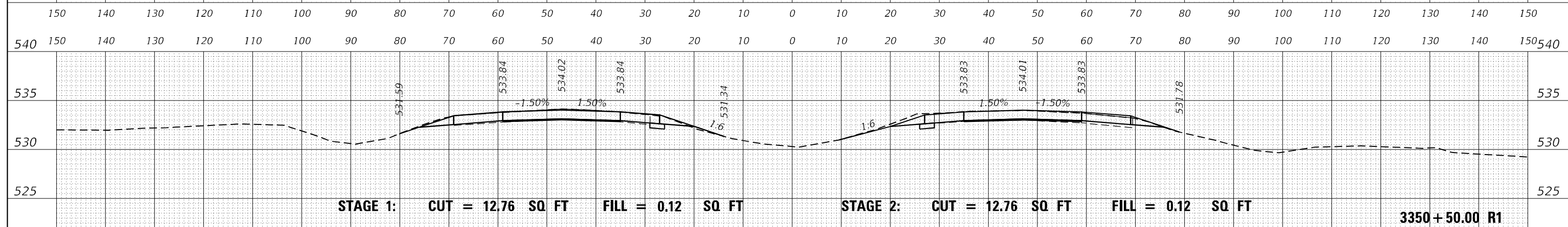
3351+50.00 R1



STAGE 1: CUT = 13.32 SQ FT FILL = 0.00 SQ FT

STAGE 2: CUT = 13.31 SQ FT FILL = 0.00 SQ FT

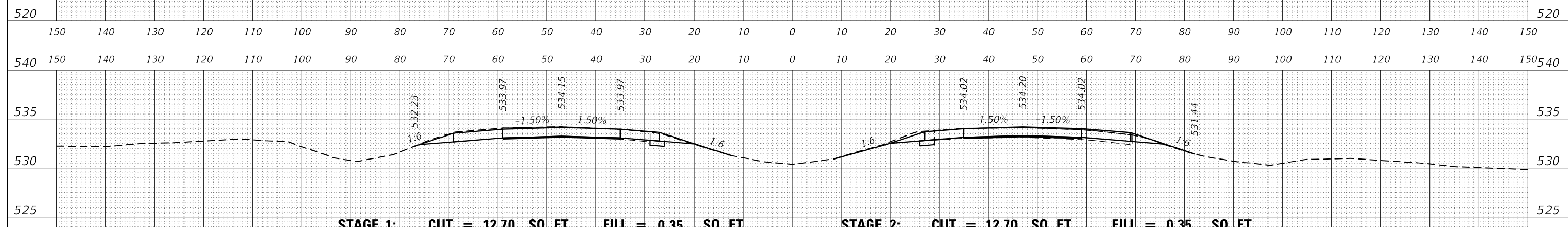
3351+00.00 R1



STAGE 1: CUT = 12.76 SQ FT FILL = 0.12 SQ FT

STAGE 2: CUT = 12.76 SQ FT FILL = 0.12 SQ FT

3350+50.00 R1



STAGE 1: CUT = 12.70 SQ FT FILL = 0.35 SQ FT

STAGE 2: CUT = 12.70 SQ FT FILL = 0.35 SQ FT

3350+00.00 R1

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 64
CROSS SECTIONS**

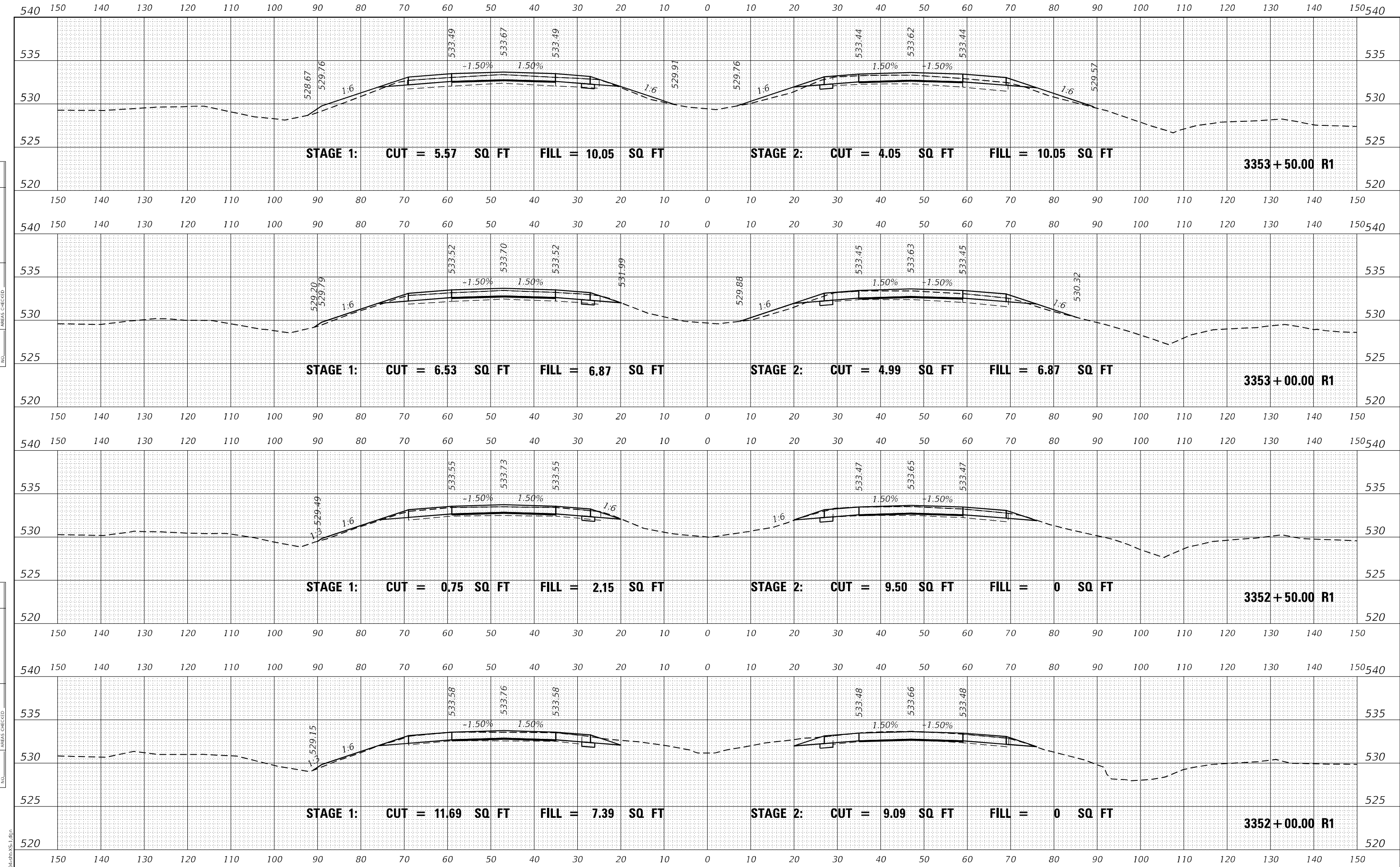
SCALE: 50 SHEET OF SHEETS STA. 3350+00.00 R1 TO STA. 3351+50.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	456
			CONTRACT NO. 78604	

(41-6,41-6-1,41-7)RS-2;BSMART 2023

FINAL SURVEY NO.	SURVEYED	DATE
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

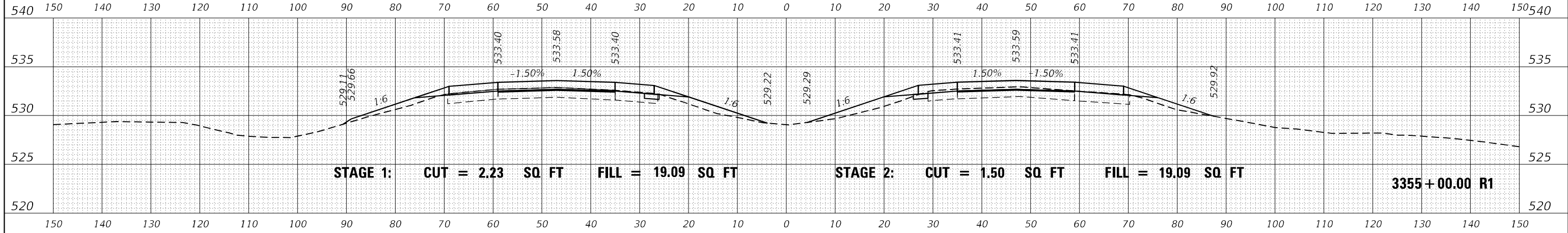
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3352+00.00 R1 TO STA. 3353+50.00 R1

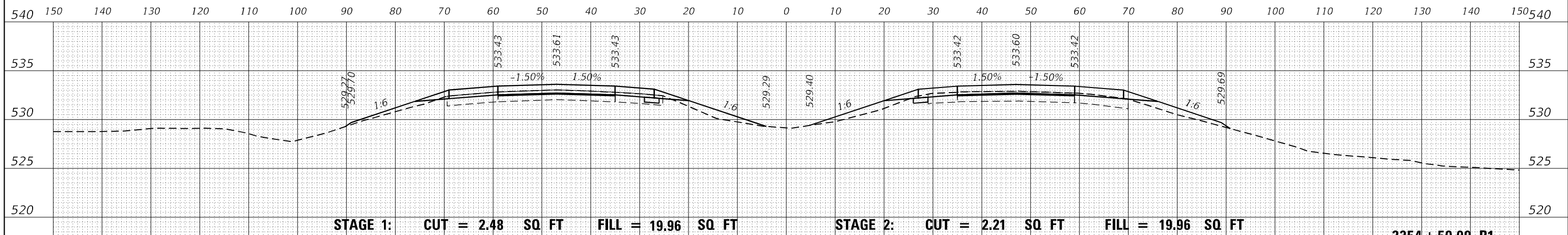
F.A.I. RTE. I-64	SECTION *	COUNTY JEFFERSON	TOTAL SHEETS 1052	SHEET NO. 457
			CONTRACT NO. 78604	
ILLINOIS FED. AID PROJECT				

(41-6,41-6-1,41-7)RS-2;BSMART 2023

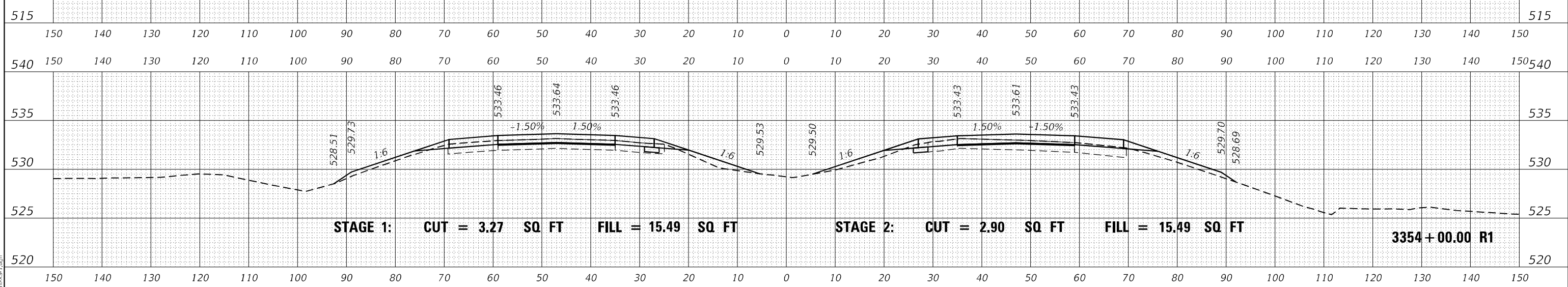
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



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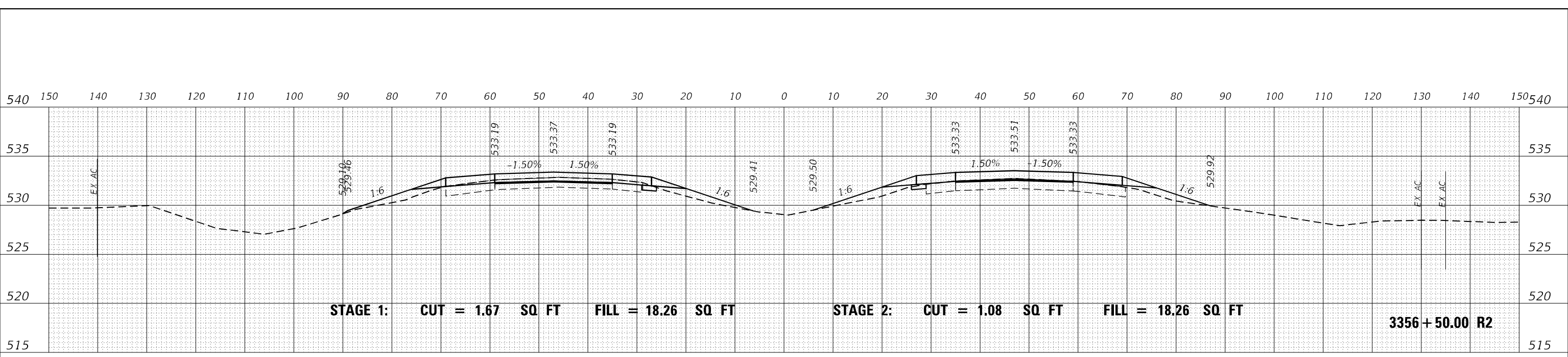
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERSTATE 64 CROSS SECTIONS	
SCALE: 50	SHEET OF SHEETS
STA. 3354+00.00 R1 TO STA. 3355+00.00 R1	

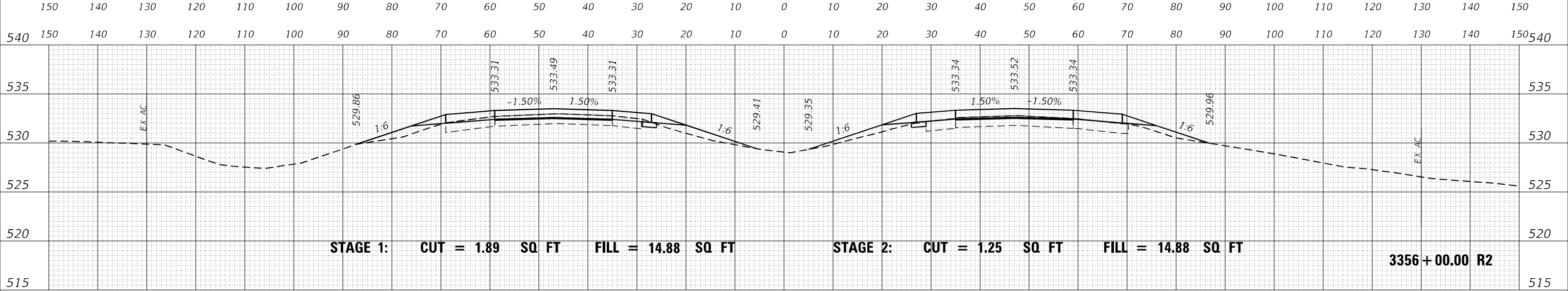
F.A.I. RTE. I-64	SECTION *	COUNTY JEFFERSON	TOTAL SHEETS 1052	SHEET NO. 458
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

(41-6,41-6-1,41-7)RS-2;BSMART 2023

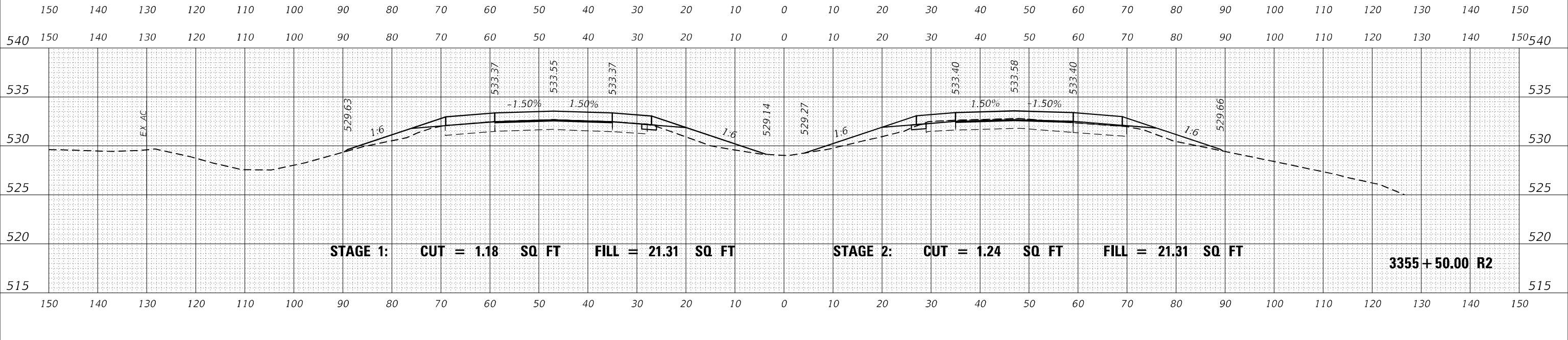
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DATE	
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NOTE BOOK	PLOTTED
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	AREAS
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DATE	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

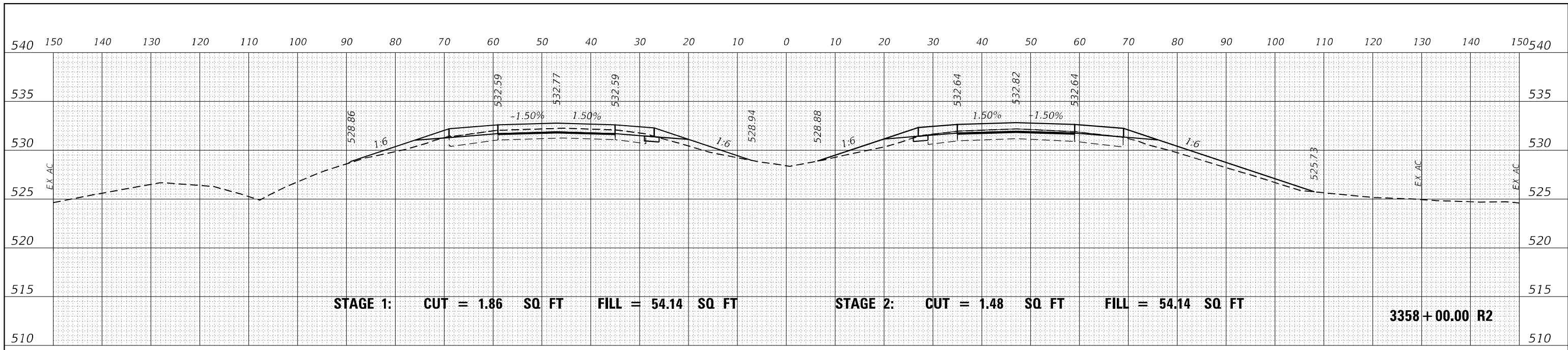
**INTERSTATE 64
CROSS SECTIONS**

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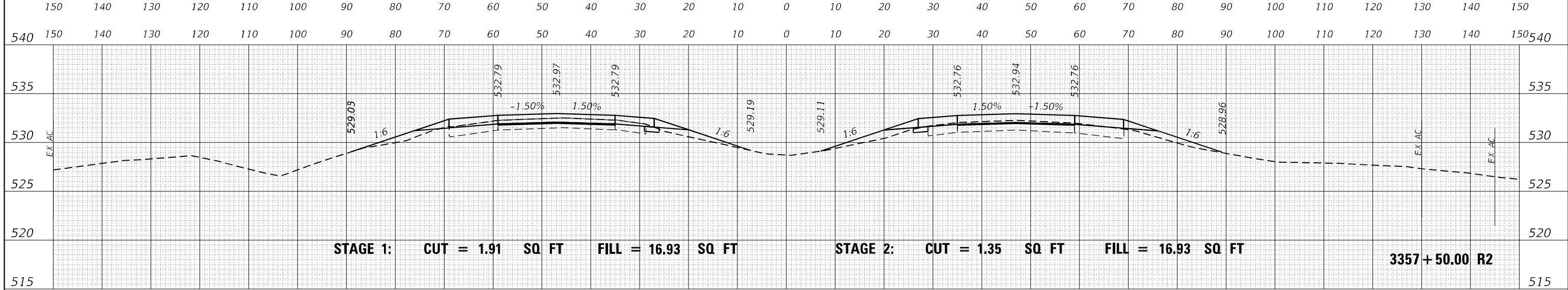
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I-64	*	JEFFERSON	1052	459
			CONTRACT NO. 78604	
ILLINOIS FED. AID PROJECT				

(41-6,41-6-1,41-7)RS-2;BSMART 2023

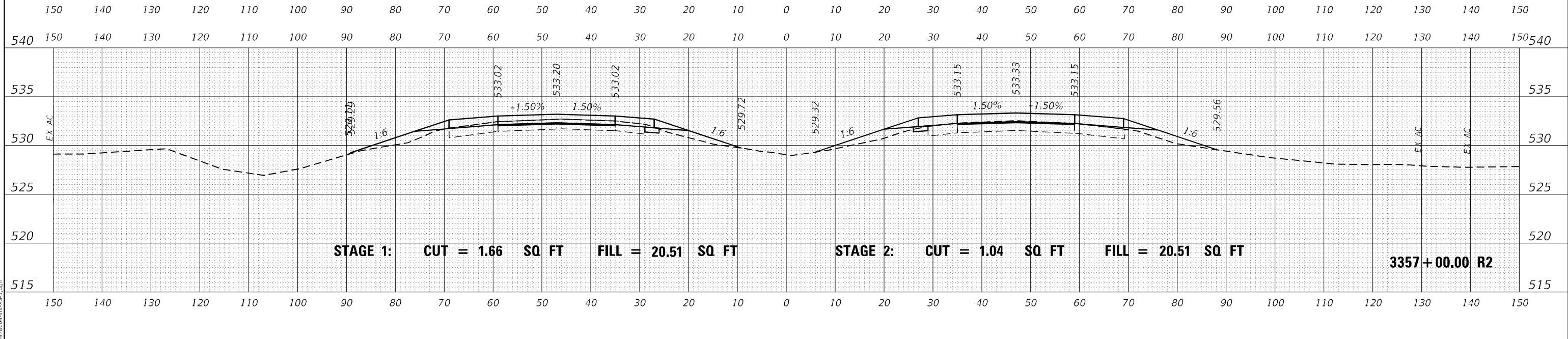
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DATE	
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



DATE	
BY	
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



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	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:30:59 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

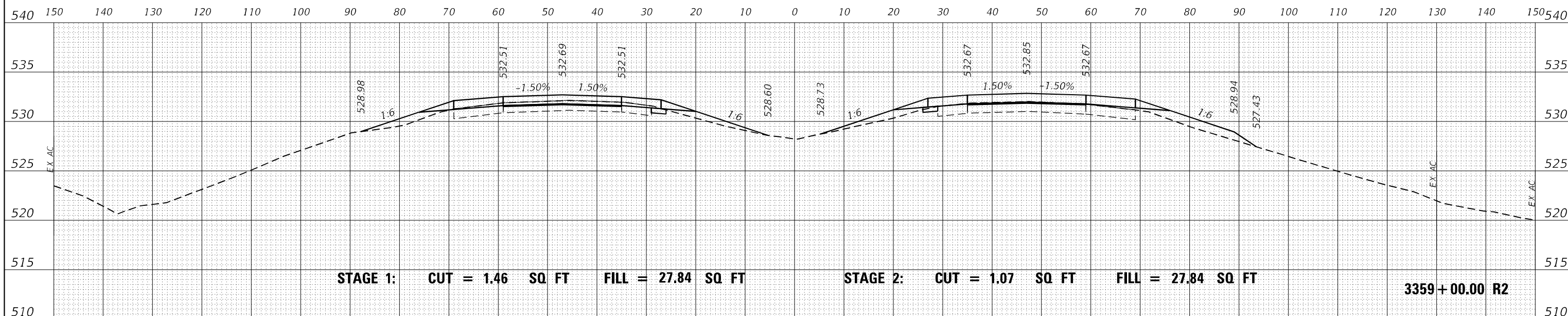
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3357+00.00 R2 TO STA. 3358+00.00 R2

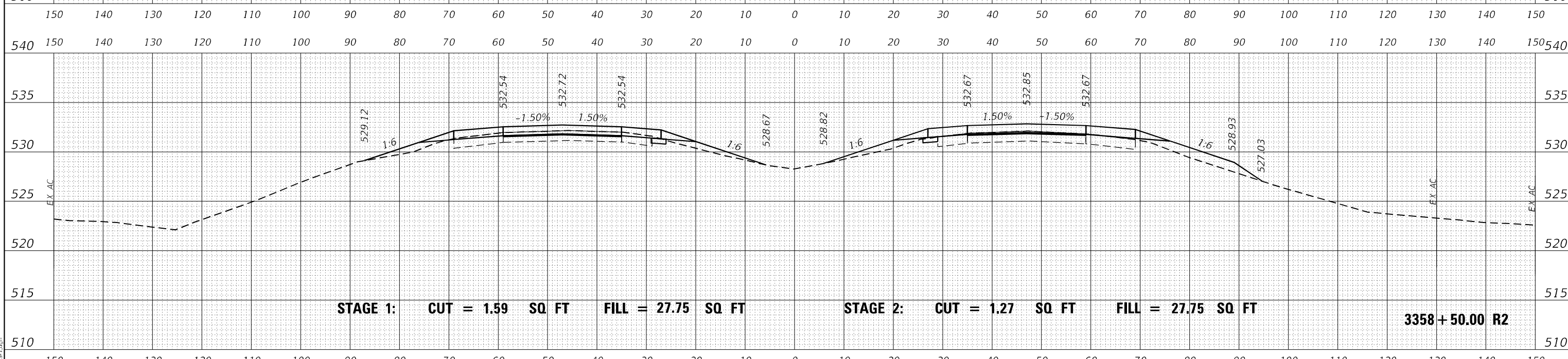
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	460
			CONTRACT NO. 78604	

* (41-6,41-6-1,41-7)RS-2;BSMART 2023

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



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



MODEL: D:\mfr\h
FILE NAME: ...029\8604-RS-VS-1.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:30:59 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

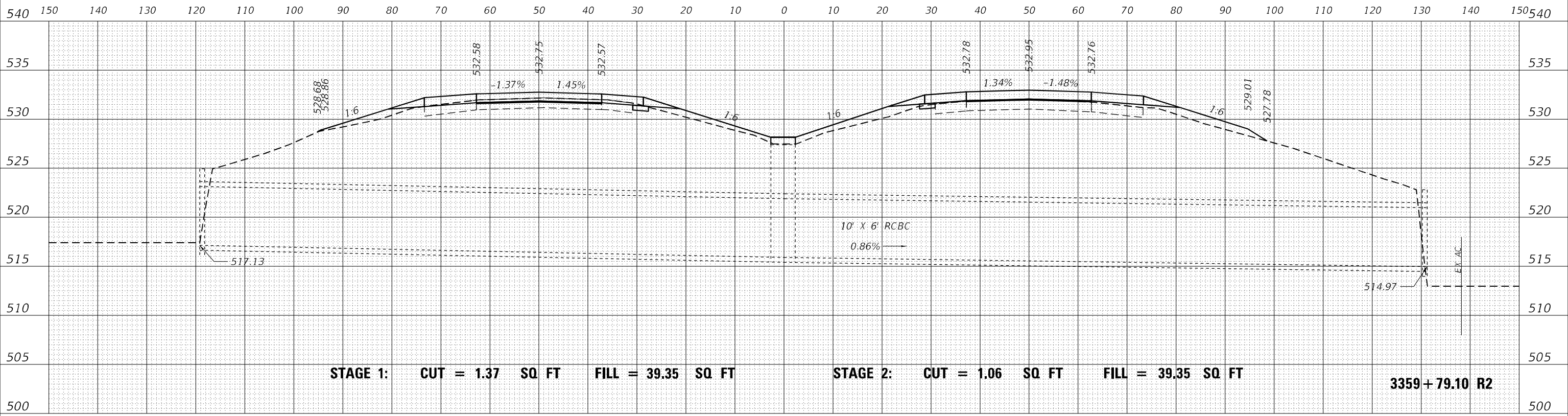
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3358+50.00 R2 TO STA. 3359+00.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	461
				CONTRACT NO. 78604

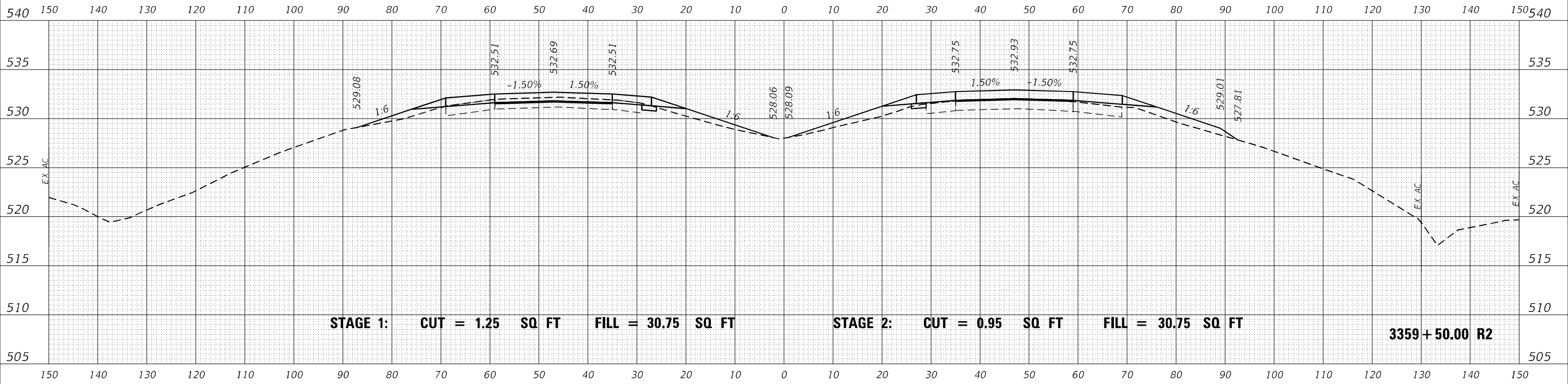
(41-6,41-6-1,41-7)RS-2;BSMART 2023

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



STAGE 1: CUT = 1.37 SQ FT FILL = 39.35 SQ FT STAGE 2: CUT = 1.06 SQ FT FILL = 39.35 SQ FT 3359+79.10 R2

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



STAGE 1: CUT = 1.25 SQ FT FILL = 30.75 SQ FT STAGE 2: CUT = 0.95 SQ FT FILL = 30.75 SQ FT 3359+50.00 R2

MODEL: D:\mfr\...
FILE NAME: ...02978604-RS-XS-1.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:30:59 AM	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

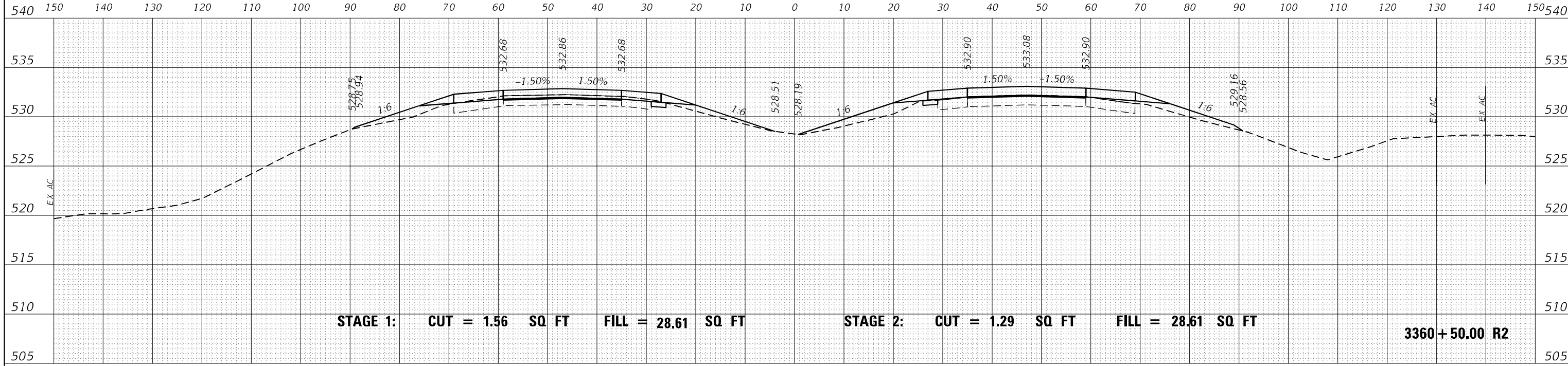
INTERSTATE 64
CROSS SECTIONS

SCALE: 50 SHEET OF SHEETS STA. 3359+50.00 R2 TO STA. 3359+79.10 R2

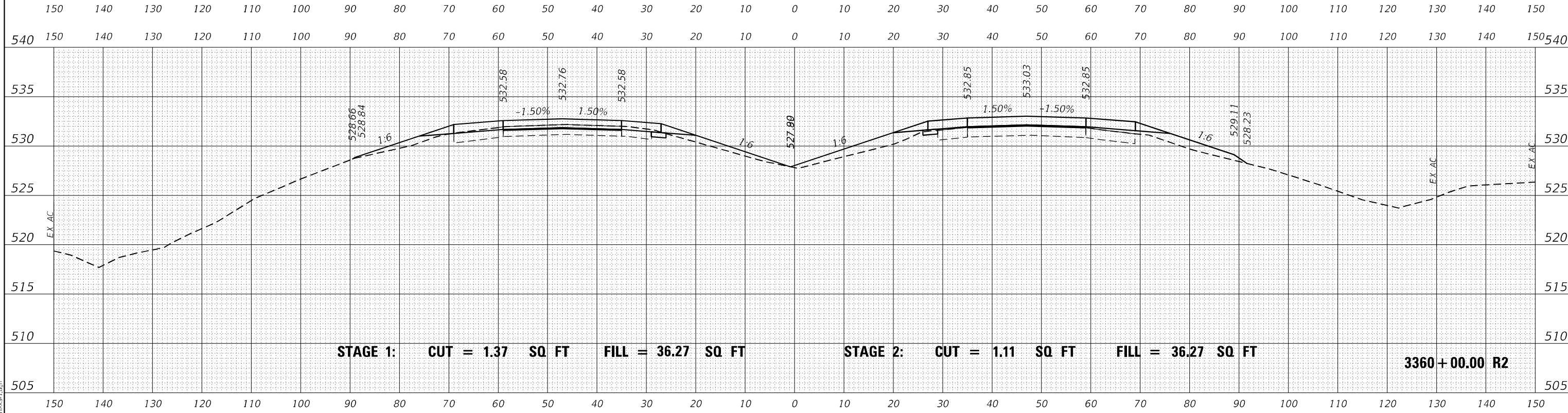
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	462
			CONTRACT NO. 78604	

(41-6,41-6-1,41-7)RS-2;BSMART 2023

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



DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



MODEL: D:\mfr\it
FILE NAME: ...02978604-RS-XS-1.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:00 AM	CHECKED -	REVISED -
	DATE -	REVISED -

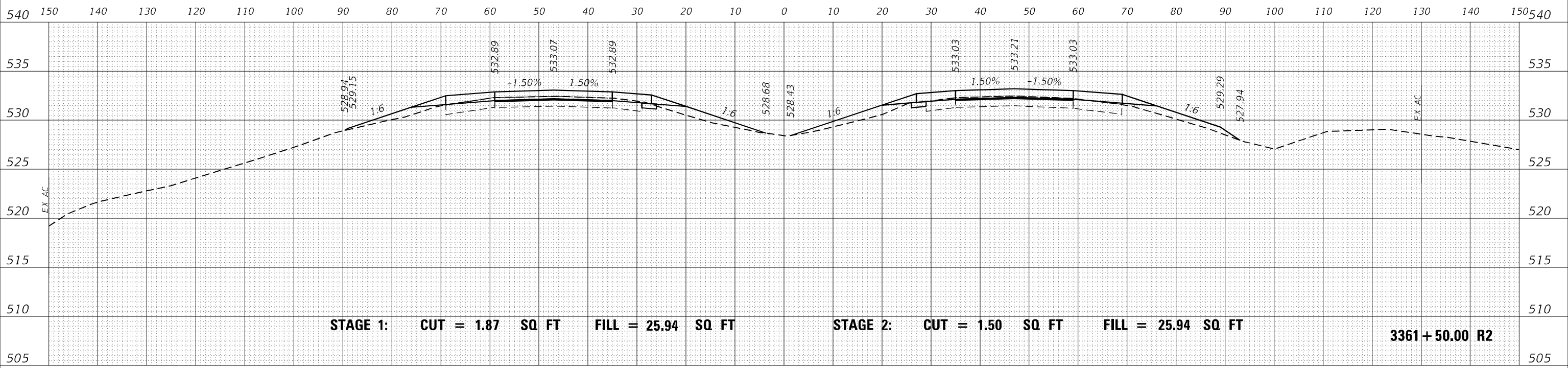
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 64
CROSS SECTIONS**

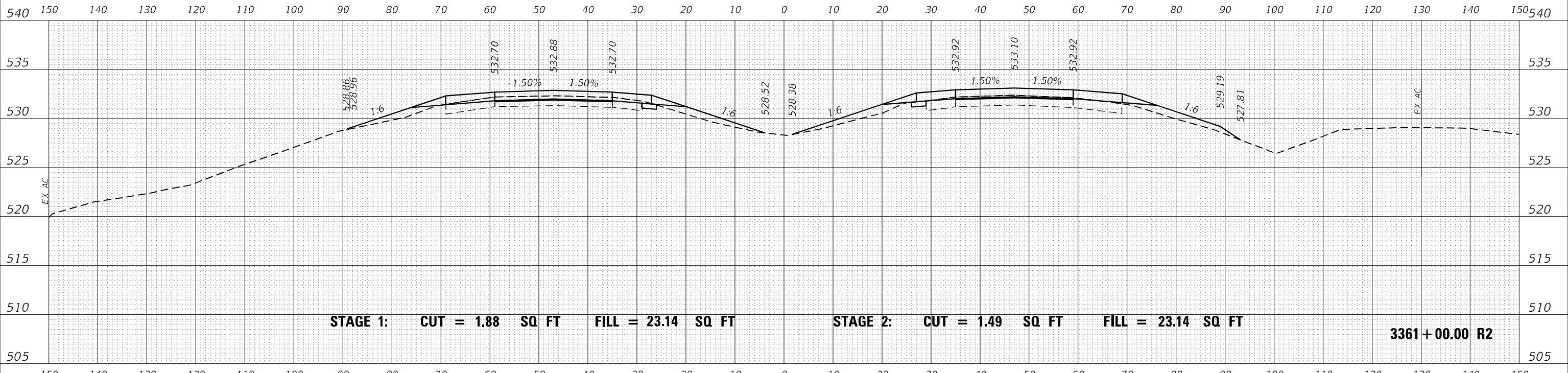
SCALE: 50 SHEET OF SHEETS STA. 3360+00.00 R2 TO STA. 3360+50.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	463
			CONTRACT NO. 78604	

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



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



MODEL: D:\mfr\...
FILE NAME: ...

USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:00 AM	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 64
CROSS SECTIONS**

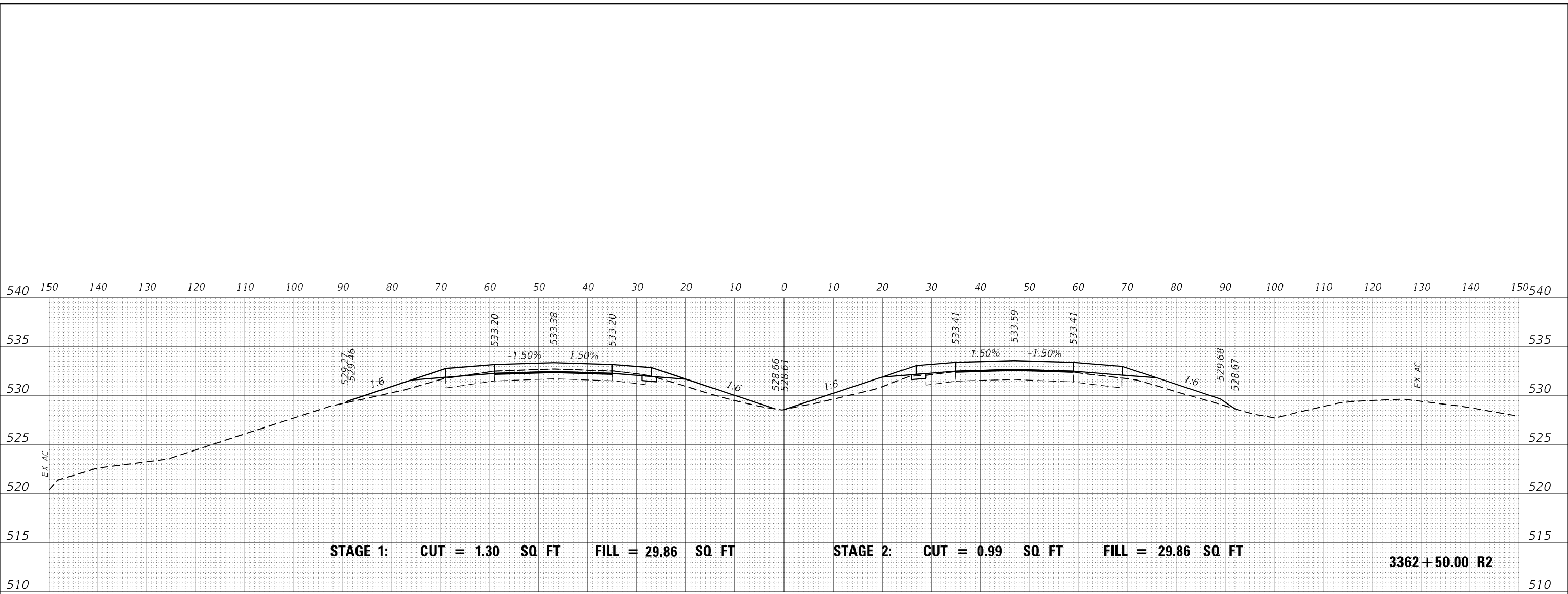
SCALE: 50 SHEET OF SHEETS STA. 3361+00.00 R2 TO STA. 3361+50.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	464
			CONTRACT NO. 78604	

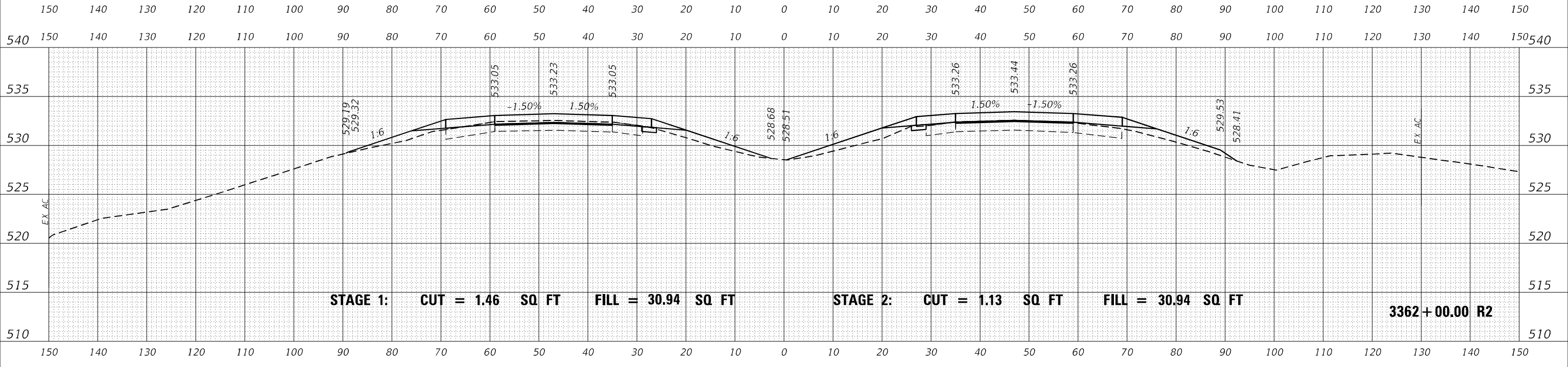
ILLINOIS FED. AID PROJECT

(41-6,41-6-1,41-7)RS-2;BSMART 2023

DATE	
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SURVEYED	
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AREAS CHECKED	



DATE	
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	



MODEL: D:\mfr\...
FILE NAME: ...02978604-RS-VS-1.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:00 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

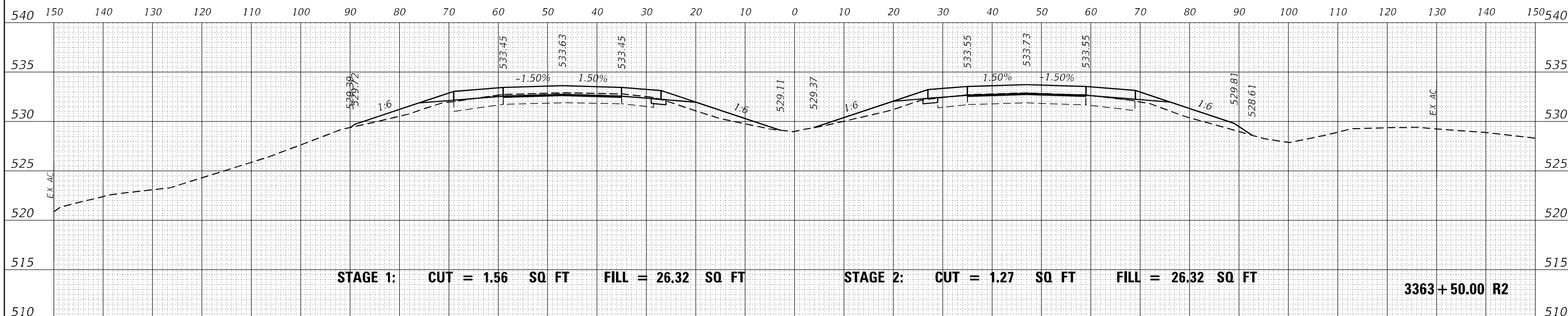
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3362+00.00 R2 TO STA. 3362+50.00 R2

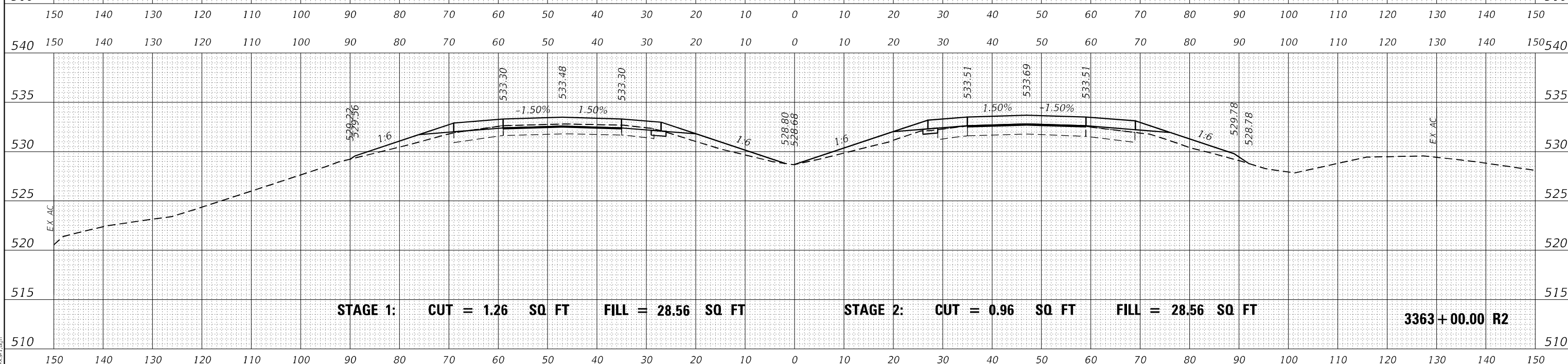
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	485
CONTRACT NO. 78604				

(41-6,41-6-1,41-7)RS-2;BSMART 2023

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



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



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FILE NAME: ...029\8604-RS-XS-1.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:00 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

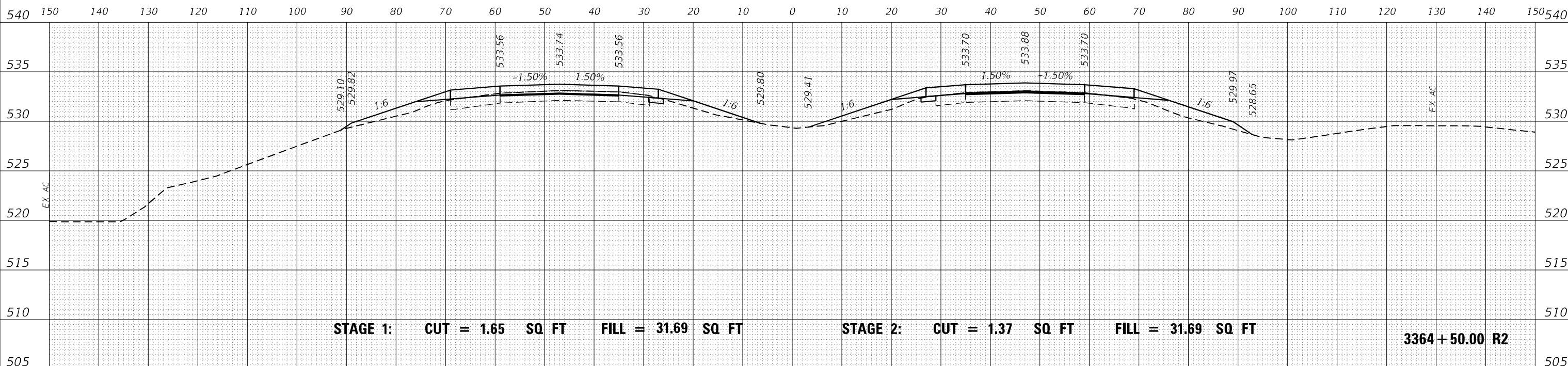
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3363+00.00 R2 TO STA. 3363+50.00 R2

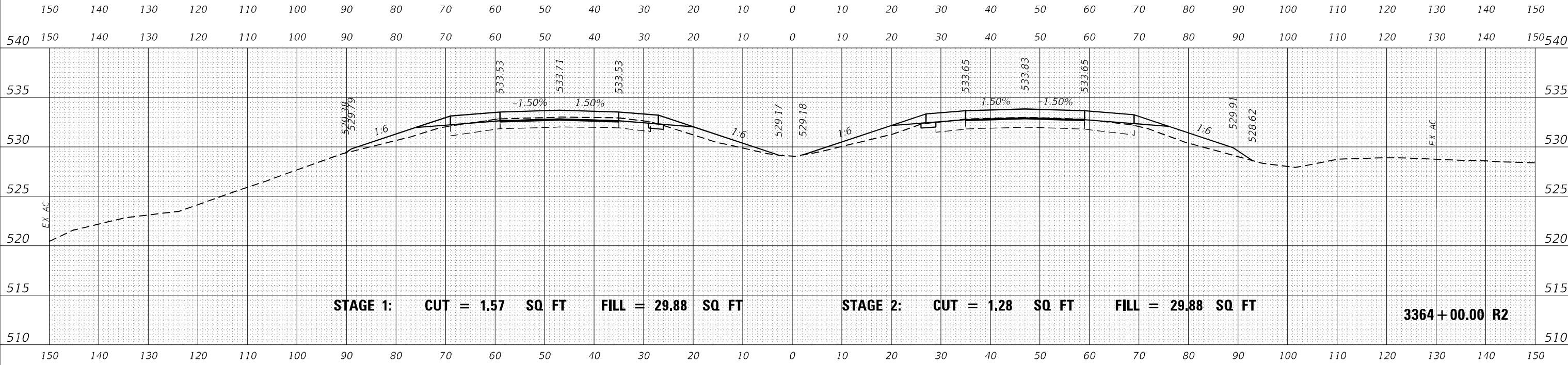
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	466
				CONTRACT NO. 78604

(41-6,41-6-1,41-7)RS-2;BSMART 2023

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



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



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 FILE NAME: ...02978604-RS-VS-1.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:01 AM	DATE -	REVISED -

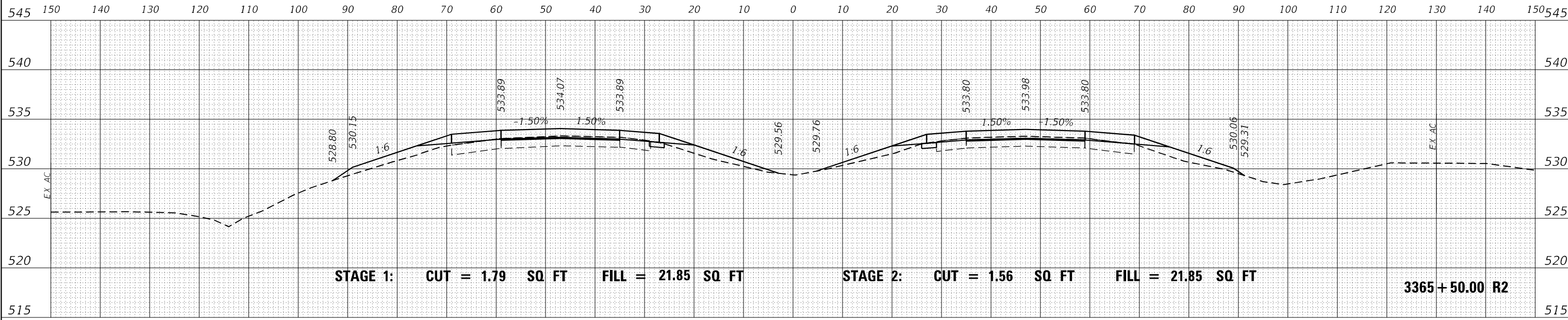
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERSTATE 64 CROSS SECTIONS	
SCALE: 50	SHEET OF SHEETS
STA. 3364+00.00 R2 TO STA. 3364+50.00 R2	

F.A.I. RTE. I-64	SECTION *	COUNTY JEFFERSON	TOTAL SHEETS 1052	SHEET NO. 467
CONTRACT NO. 78604				

ILLINOIS FED. AID PROJECT
* (41-6,41-6-1,41-7)RS-2;BSMART 2023

BY	DATE



BY	DATE

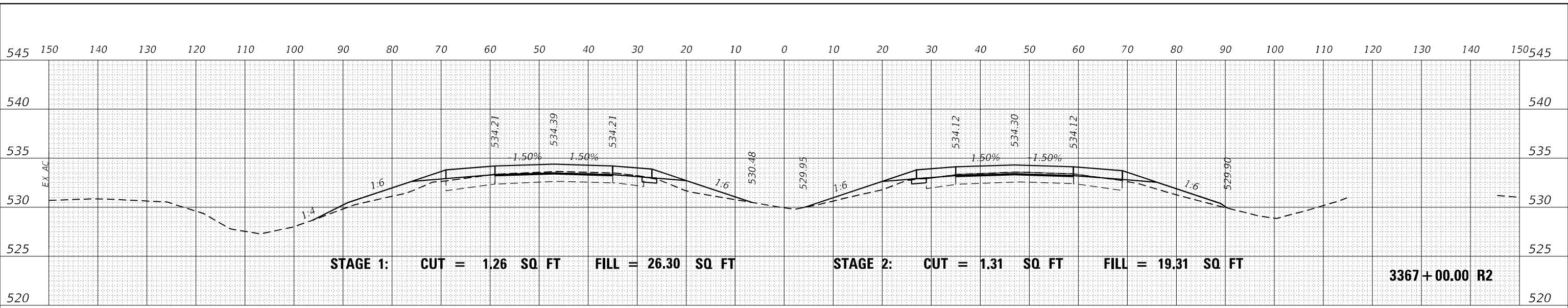


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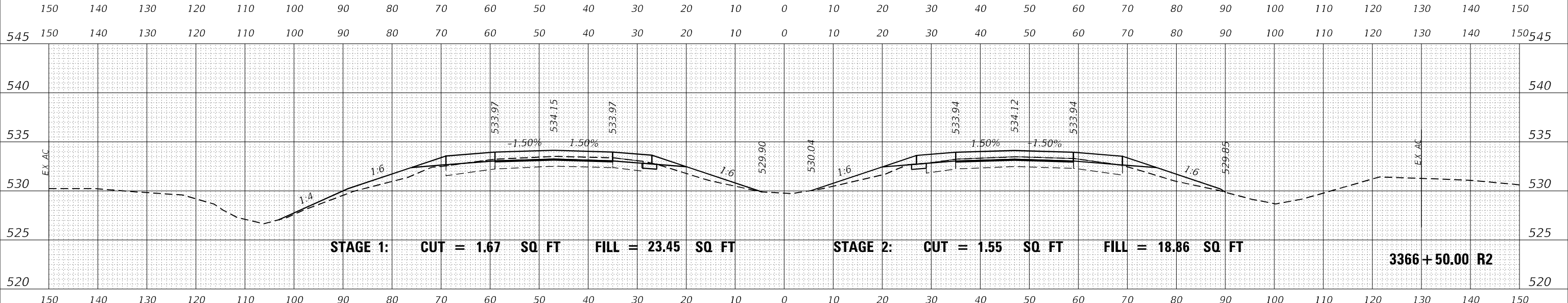
USER NAME = dhawes	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSTATE 64 CROSS SECTIONS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 20,000 * / in.	DRAWN -	REVISED -			I-64	*	JEFFERSON	1052	488
PLOT DATE = 11/4/2022 - 9:31:01 AM	CHECKED -	REVISED -			CONTRACT NO. 78604				
	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: 50 SHEET OF SHEETS STA. 3365+00.00 R2 TO STA. 3365+50.00 R2 (41-6,41-6-1,41-7)RS-2;BSMART 2023

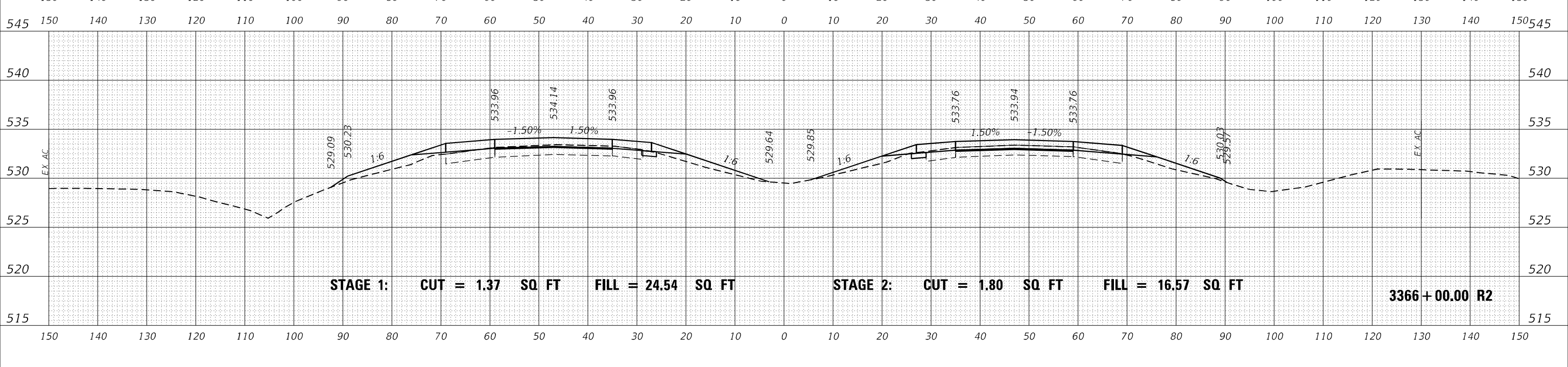
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BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS
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MODEL: D:\mfr\...
FILE NAME: ...

USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:01 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

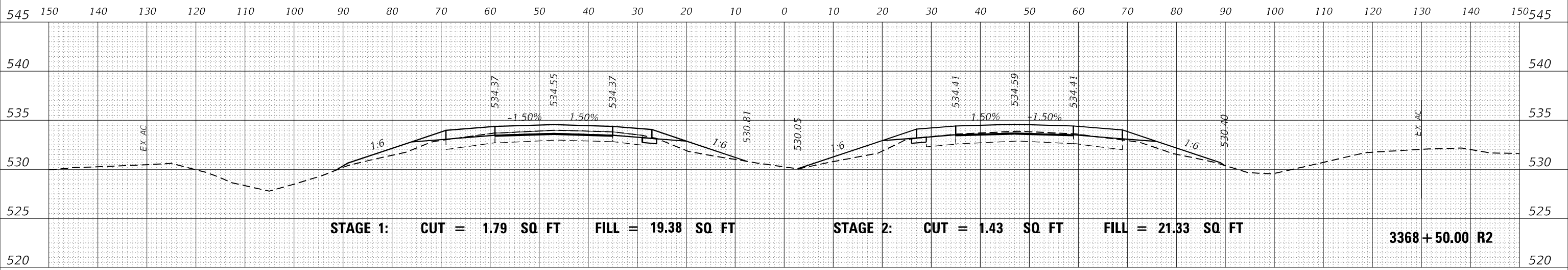
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3366+00.00 R2 TO STA. 3367+00.00 R2

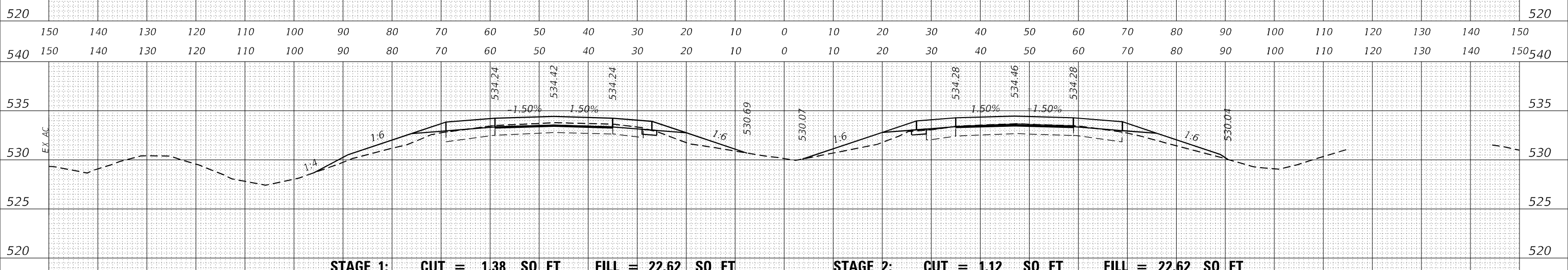
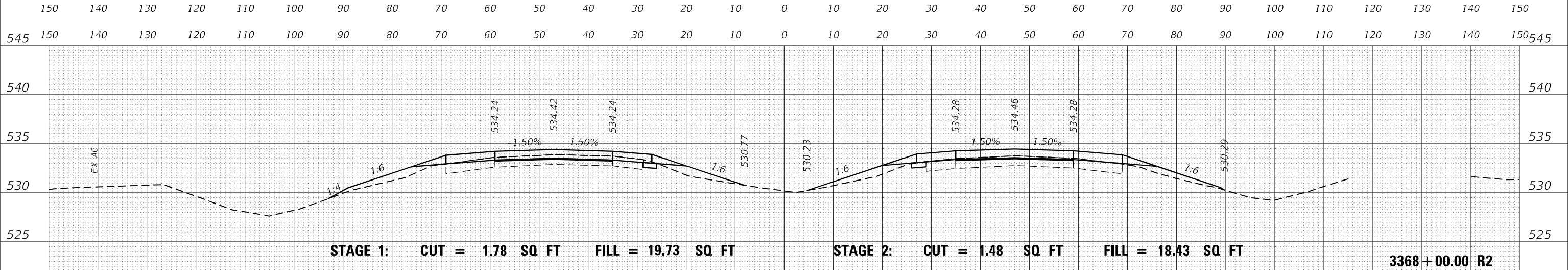
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	469
CONTRACT NO. 78604				

(41-6,41-6-1,41-7)RS-2;BSMART 2023

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



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



MODEL: D:\mfr\...
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USER NAME = dhawes	DESIGNED -	REVISD -
PLOT SCALE = 20,0000' / in.	DRAWN -	REVISD -
PLOT DATE = 11/4/2022 - 9:31:01 AM	CHECKED -	REVISD -
	DATE -	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

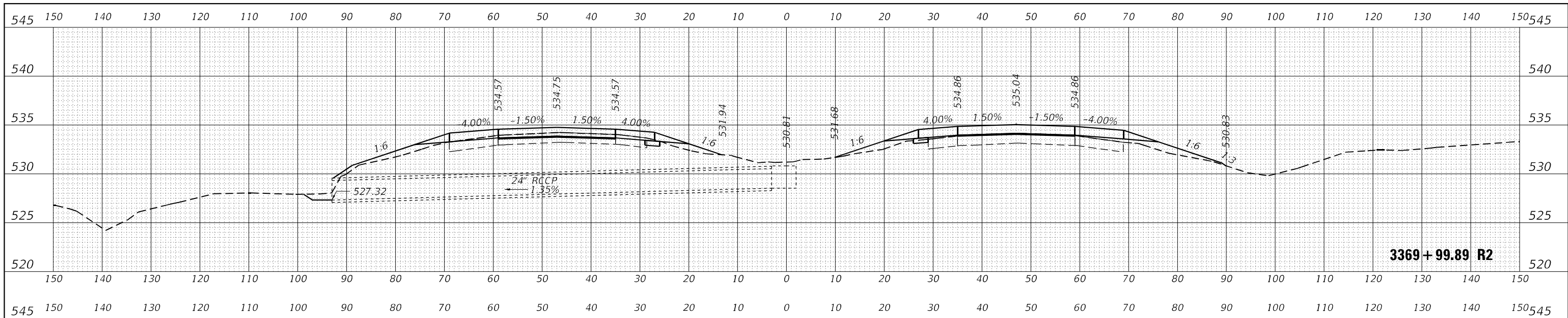
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3367+50.00 R2 TO STA. 3368+50.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	470
			CONTRACT NO. 78604	

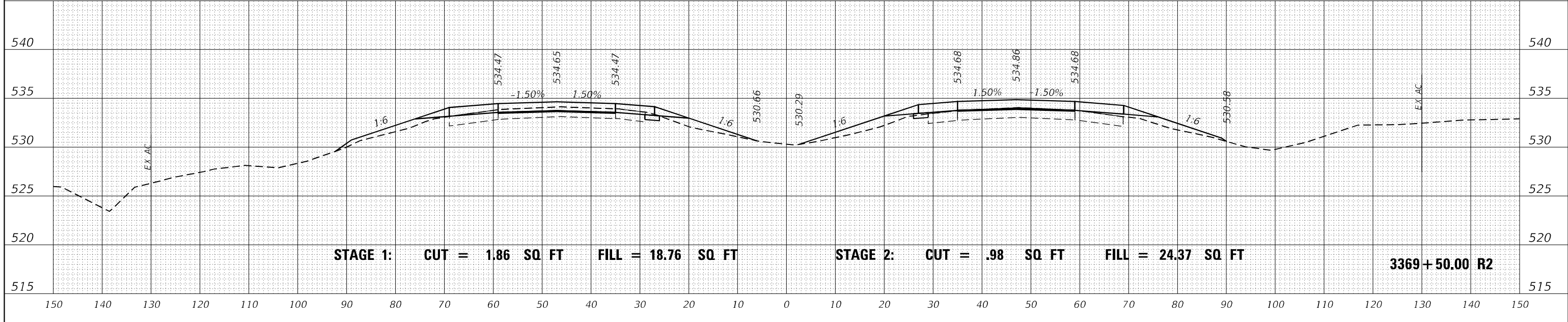
* (41-6,41-6-1,41-7)RS-2;BSMART 2023

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS
	CHECKED



3369+99.89 R2

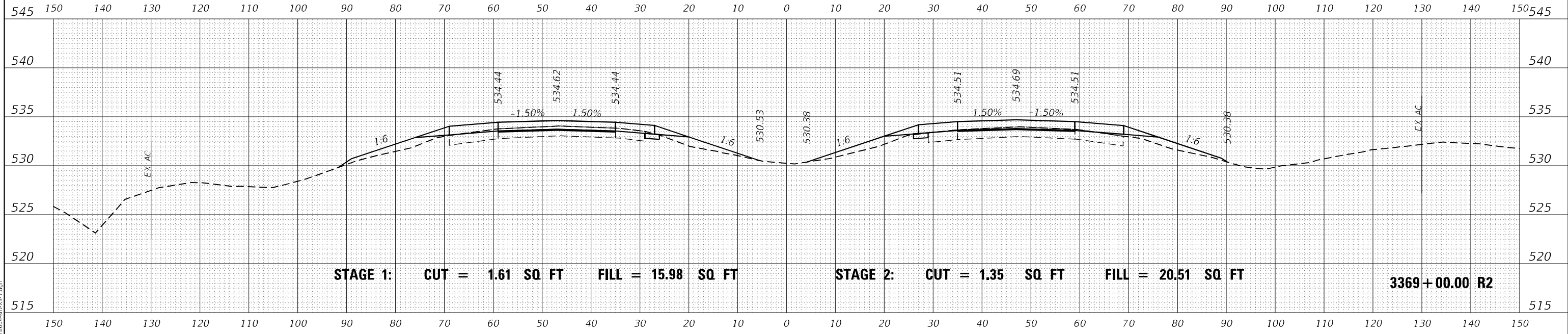
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



STAGE 1: CUT = 1.86 SQ FT FILL = 18.76 SQ FT

STAGE 2: CUT = .98 SQ FT FILL = 24.37 SQ FT

3369+50.00 R2



STAGE 1: CUT = 1.61 SQ FT FILL = 15.98 SQ FT

STAGE 2: CUT = 1.35 SQ FT FILL = 20.51 SQ FT

3369+00.00 R2

MODEL: D:\mfr\h...
FILE NAME: ...02976004-10-10-10.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:02 AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSTATE 64
CROSS SECTIONS

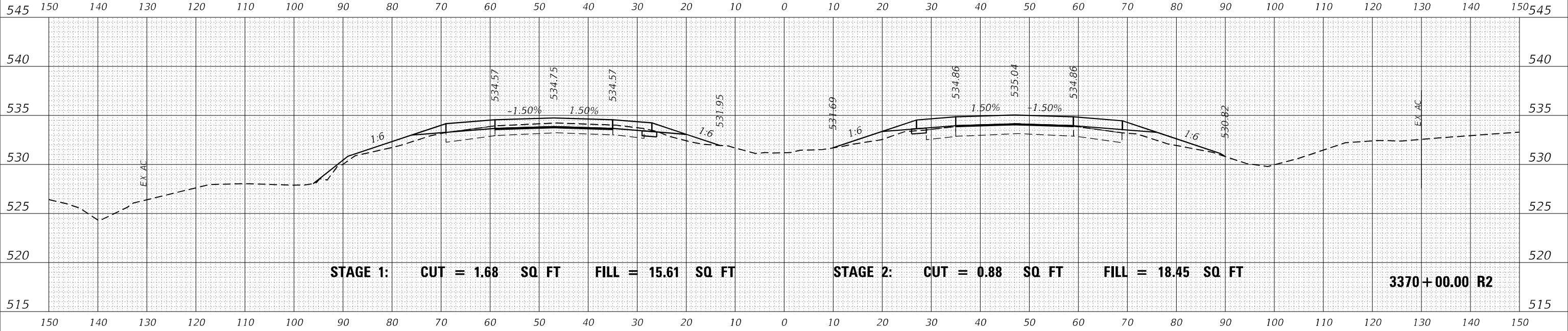
SCALE: SHEET OF SHEETS STA. 3369+00.00 R2 TO STA. 3369+50.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	471
			CONTRACT NO. 78604	

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

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

MODEL: D:\mfr\it
FILE NAME: ...02978604-R2-S4S-1.dgn



STAGE 1: CUT = 1.68 SQ FT FILL = 15.61 SQ FT

STAGE 2: CUT = 0.88 SQ FT FILL = 18.45 SQ FT

3370+00.00 R2

USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:02 AM	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

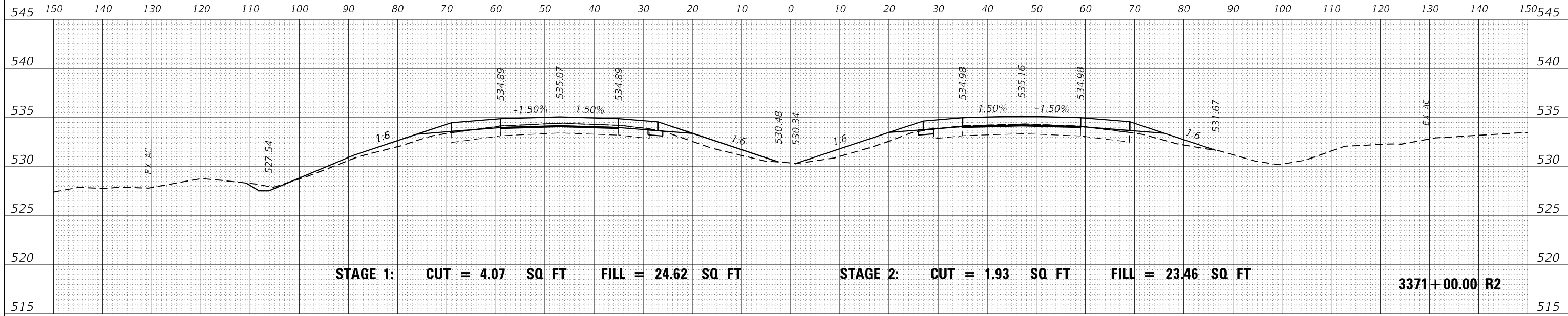
**INTERSTATE 64
CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 3369+99.89 R2 TO STA. 3370+00.00 R2

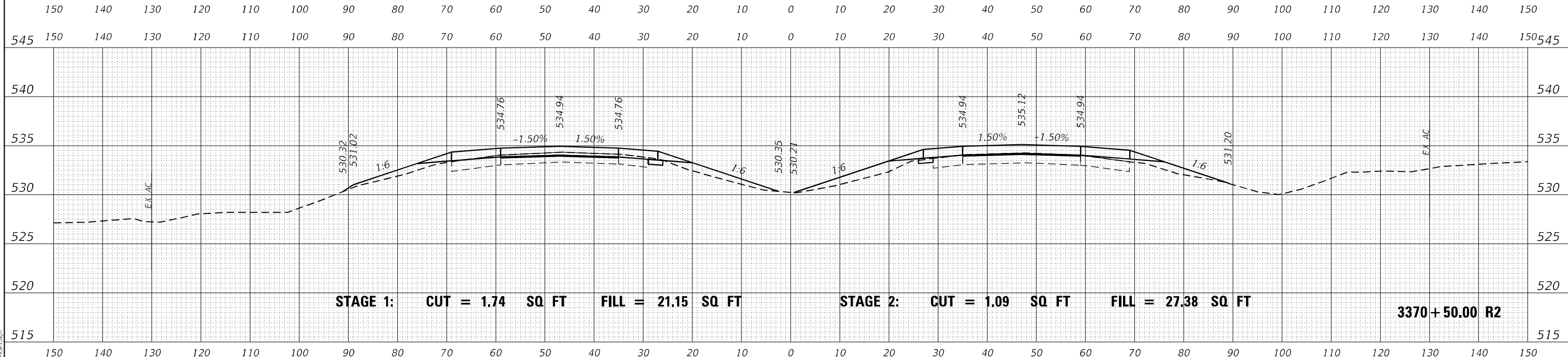
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	472
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

* (41-6,41-6-1,41-7)RS-2;BSMART 2023

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



ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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FILE NAME: ...02978604-RS-R2.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 20,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:03 AM	CHECKED -	REVISED -
	DATE -	REVISED -

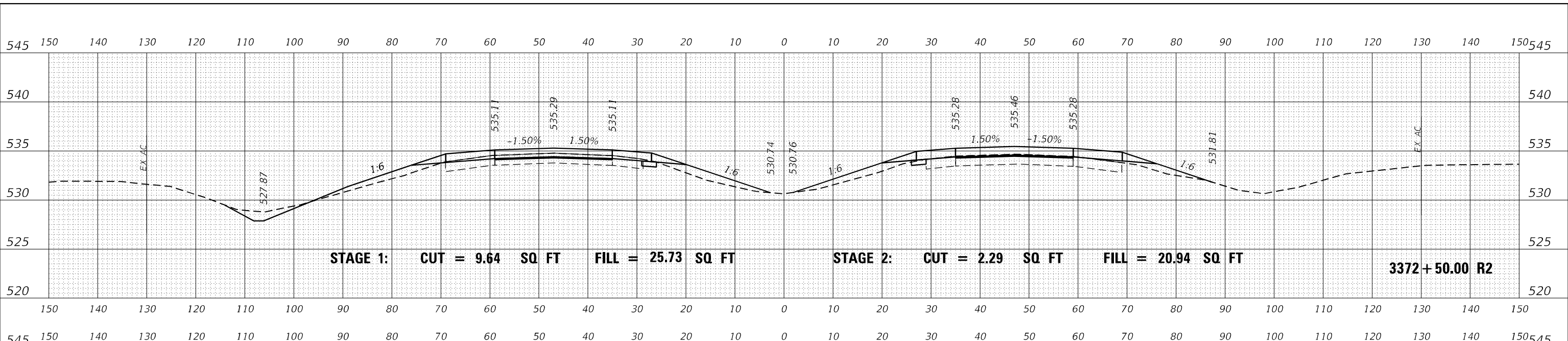
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 64
CROSS SECTIONS**

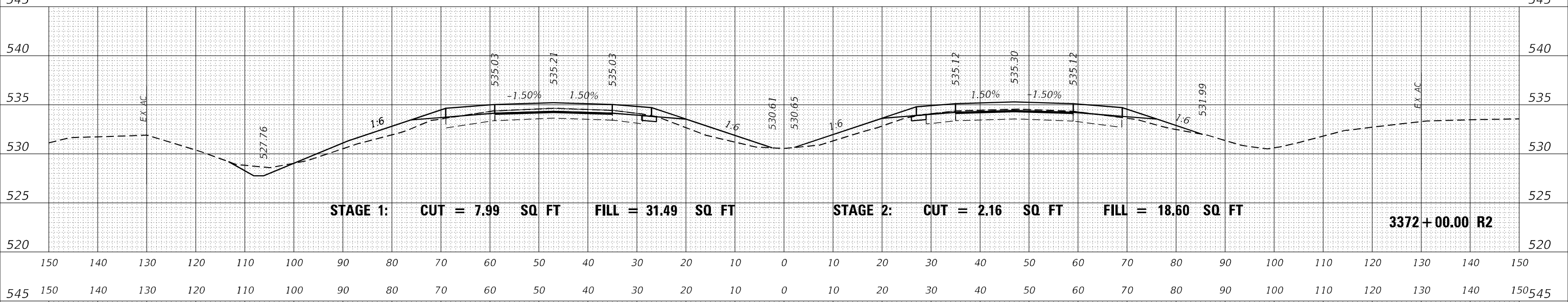
SCALE: 50 SHEET OF SHEETS STA. 3370+50.00 R2 TO STA. 3371+00.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	473
CONTRACT NO. 78604				

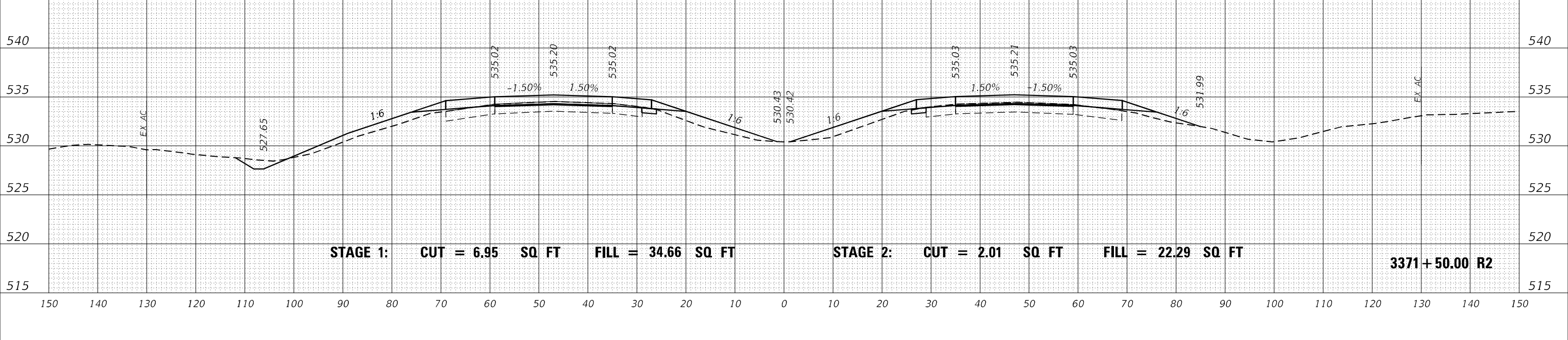
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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 FILE NAME: ...02978604-RS-VS-1.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 20,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:03 AM	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

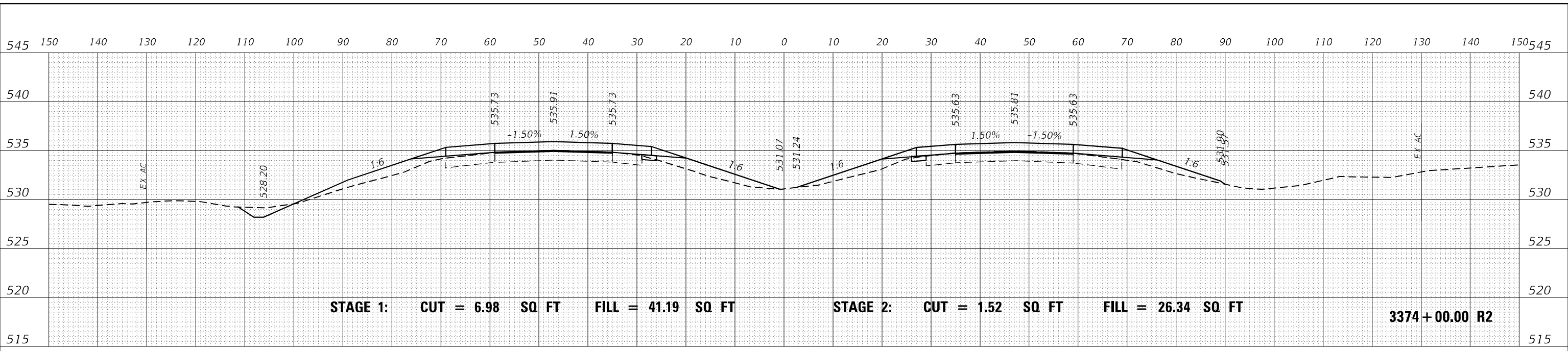
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3371+50.00 R2 TO STA. 3372+50.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	474
			CONTRACT NO. 78604	

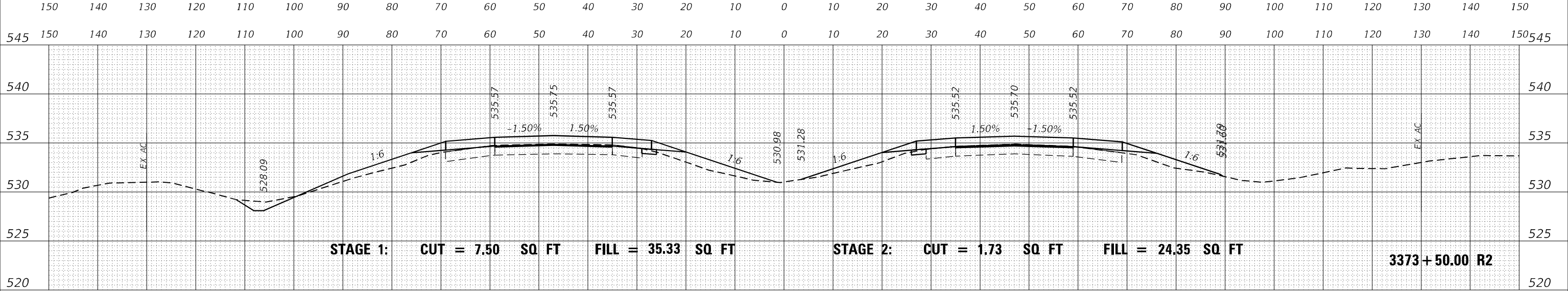
* (41-6,41-6-1,41-7)RS-2;BSMART 2023

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



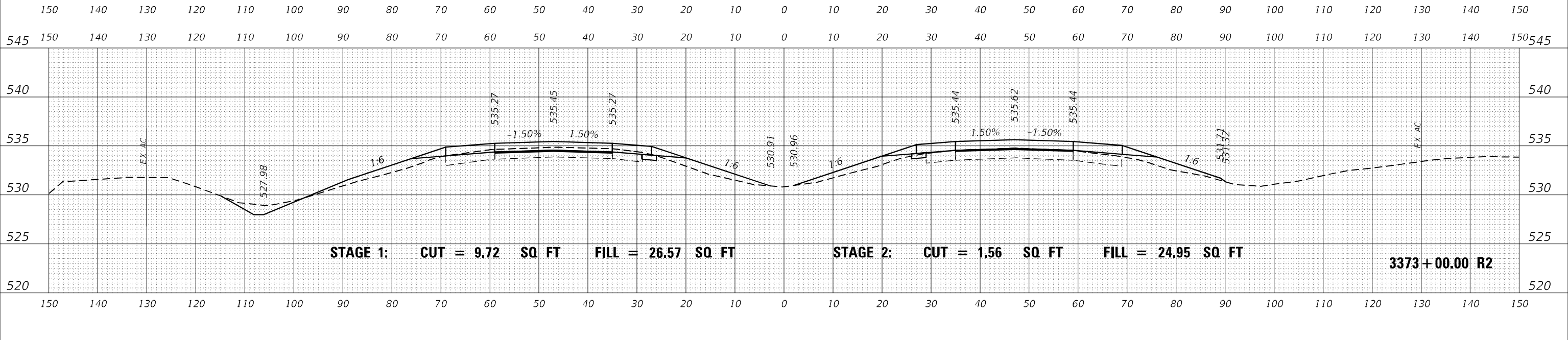
STAGE 1: CUT = 6.98 SQ FT FILL = 41.19 SQ FT STAGE 2: CUT = 1.52 SQ FT FILL = 26.34 SQ FT 3374+00.00 R2

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



STAGE 1: CUT = 7.50 SQ FT FILL = 35.33 SQ FT STAGE 2: CUT = 1.73 SQ FT FILL = 24.35 SQ FT 3373+50.00 R2

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



STAGE 1: CUT = 9.72 SQ FT FILL = 26.57 SQ FT STAGE 2: CUT = 1.56 SQ FT FILL = 24.95 SQ FT 3373+00.00 R2

USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:05 AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSTATE 64
CROSS SECTIONS

SCALE: 50 SHEET OF SHEETS STA. 3373+00.00 R2 TO STA. 3374+00.00 R2

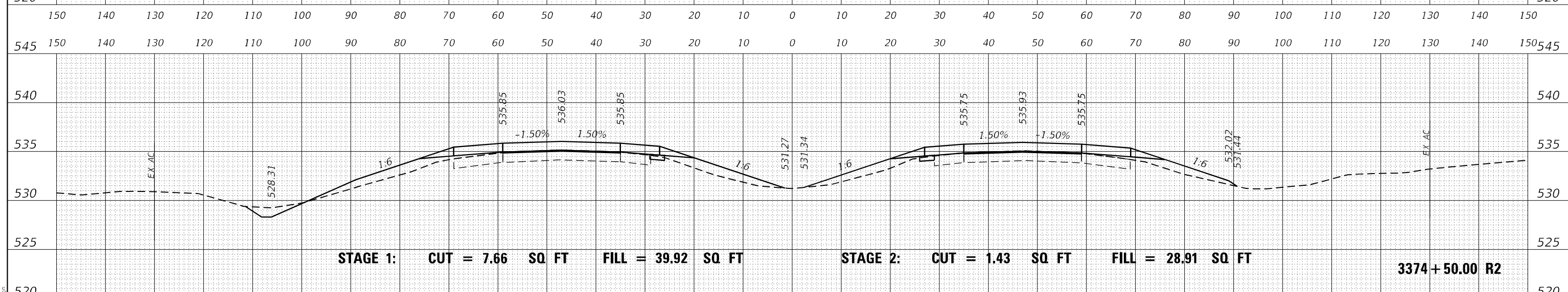
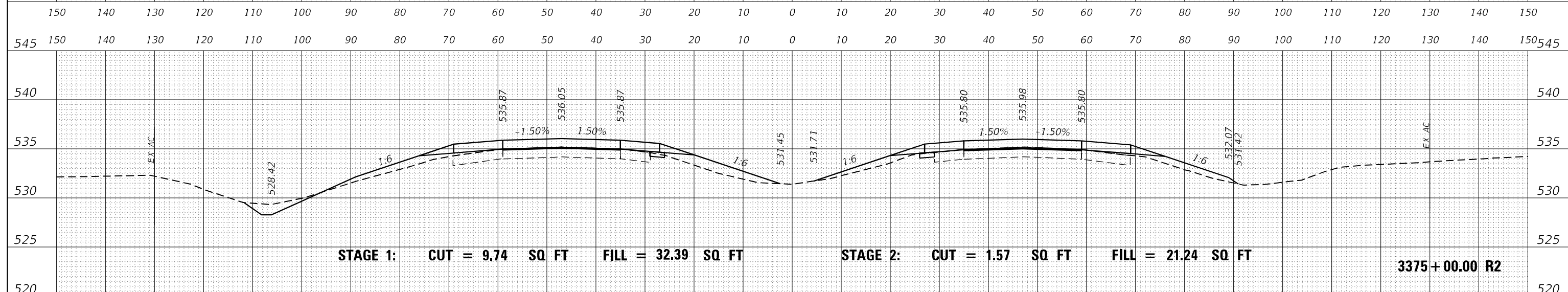
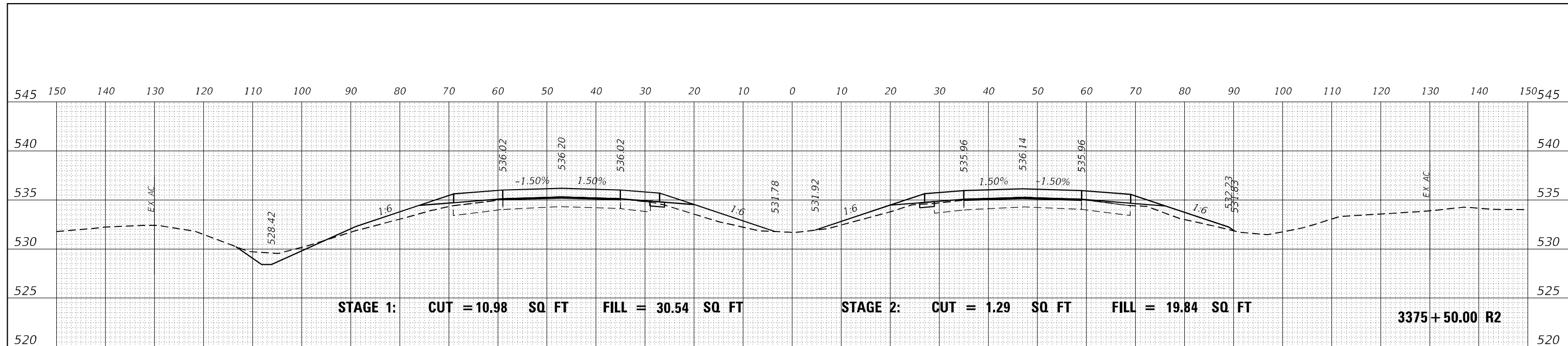
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	475
CONTRACT NO. 78604				

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FILE NAME: ...02978604-RS-VS-1.dgn

(41-6,41-6-1,41-7)RS-2;BSMART 2023

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

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



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FILE NAME: ...029\8604-RS-XS-1.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 20,000 * / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:06 AM	CHECKED -	REVISED -
	DATE -	REVISED -

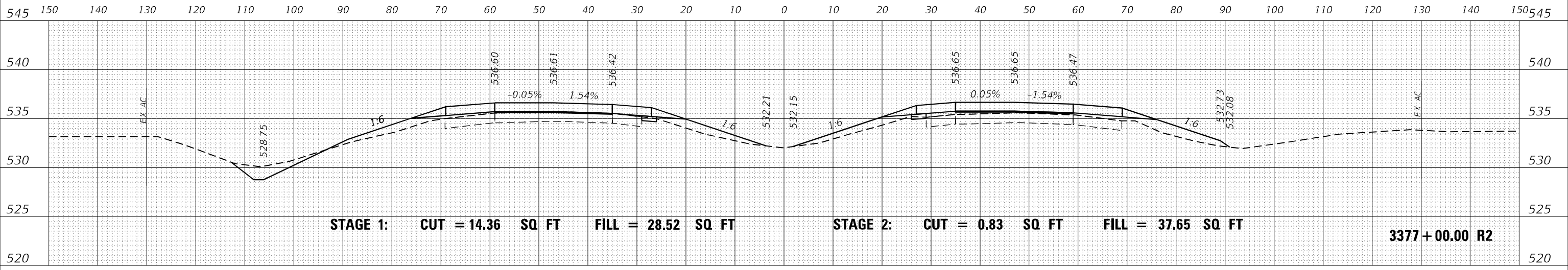
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERSTATE 64 CROSS SECTIONS	
SCALE: 50	SHEET OF SHEETS
STA. 3374+50.00 R2 TO STA. 3375+50.00 R2	

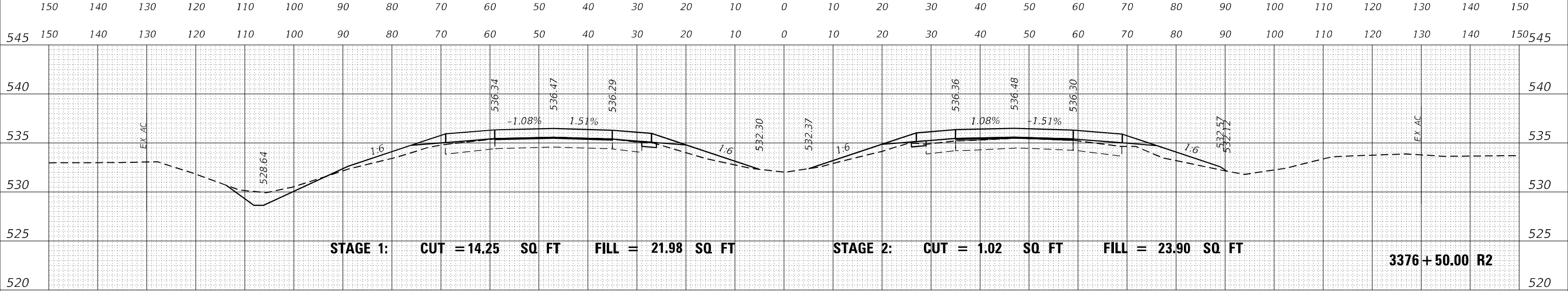
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	476
CONTRACT NO. 78604				
ILLINOIS FED. AID PROJECT				

(41-6,41-6-1,41-7)RS-2;BSMART 2023

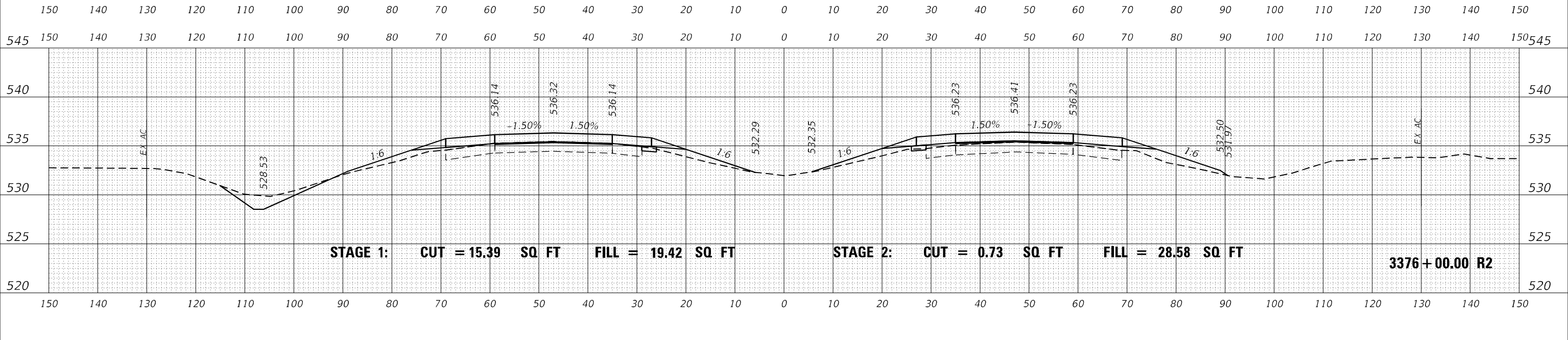
DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:06 AM	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 64
CROSS SECTIONS**

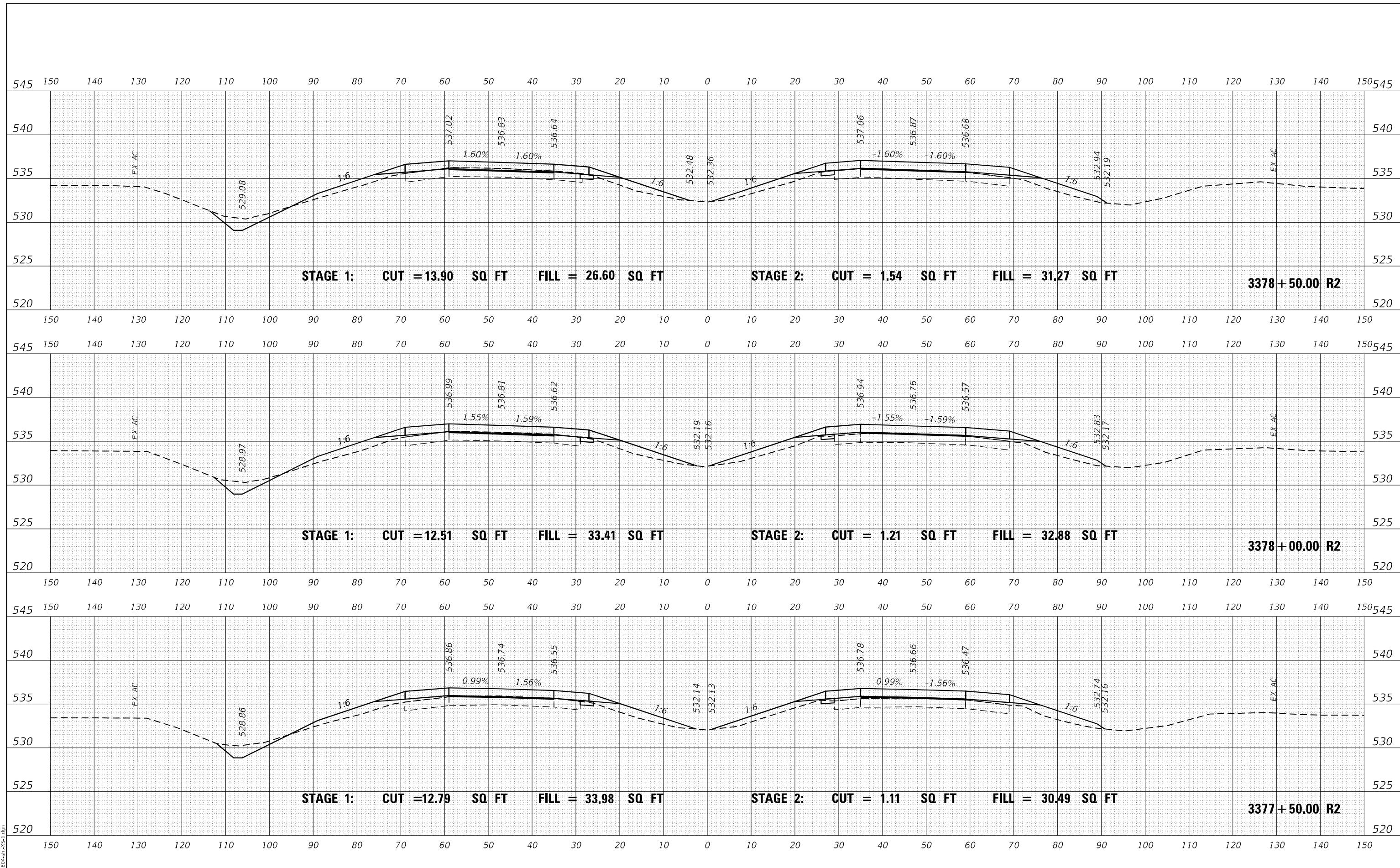
SCALE: 50 SHEET OF SHEETS STA. 3376+00.00 R2 TO STA. 3377+00.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	477
			CONTRACT NO. 78604	
		ILLINOIS	FED. AID PROJECT	

* (41-6,41-6-1,41-7)RS-2;BSMART 2023

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

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



MODEL: D:\mfr\...
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USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 20,000 * / in.	DRAWN -	REVISED -
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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

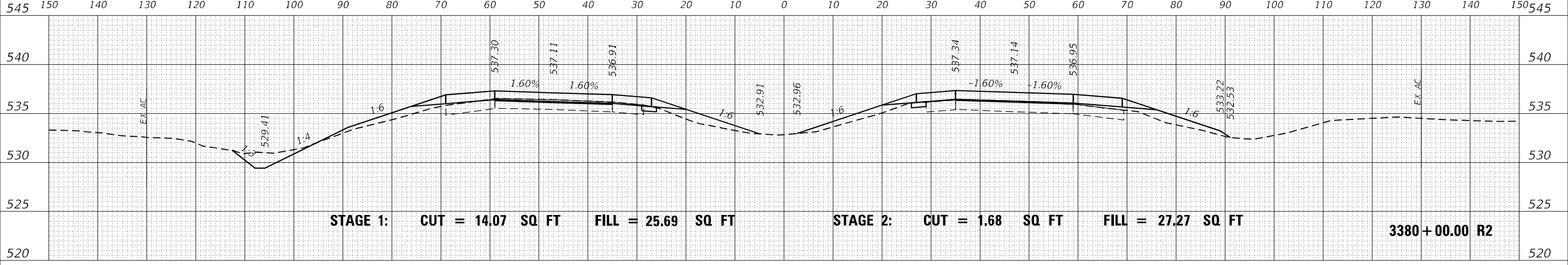
**INTERSTATE 64
 CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3377+50.00 R2 TO STA. 3378+50.00 R2

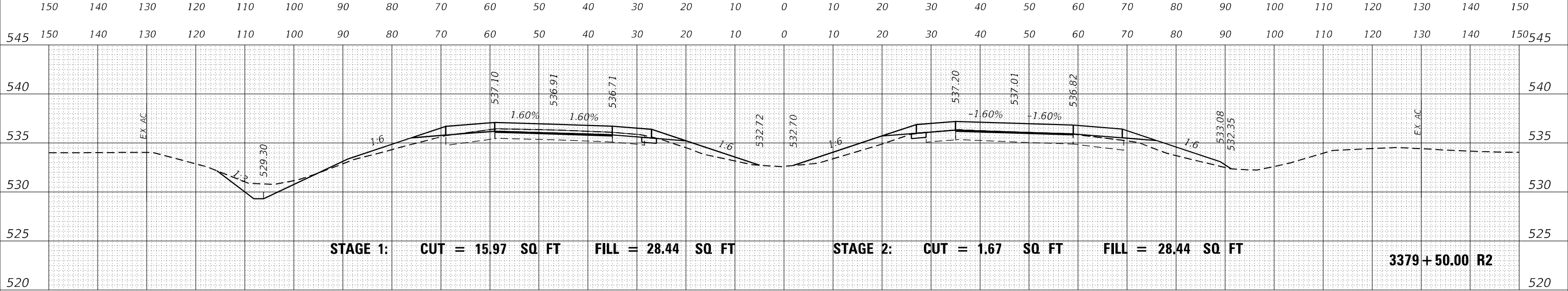
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	478
			CONTRACT NO. 78604	
		ILLINOIS	FED. AID PROJECT	

(41-6,41-6-1,41-7)RS-2;BSMART 2023

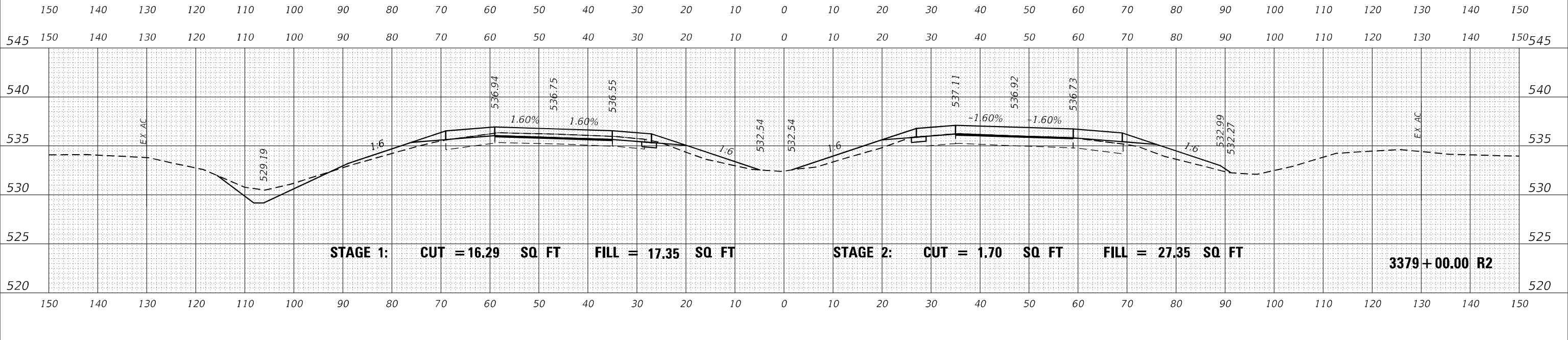
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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FILE NAME: ...029\8604-RS-XS-1.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:07 AM	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

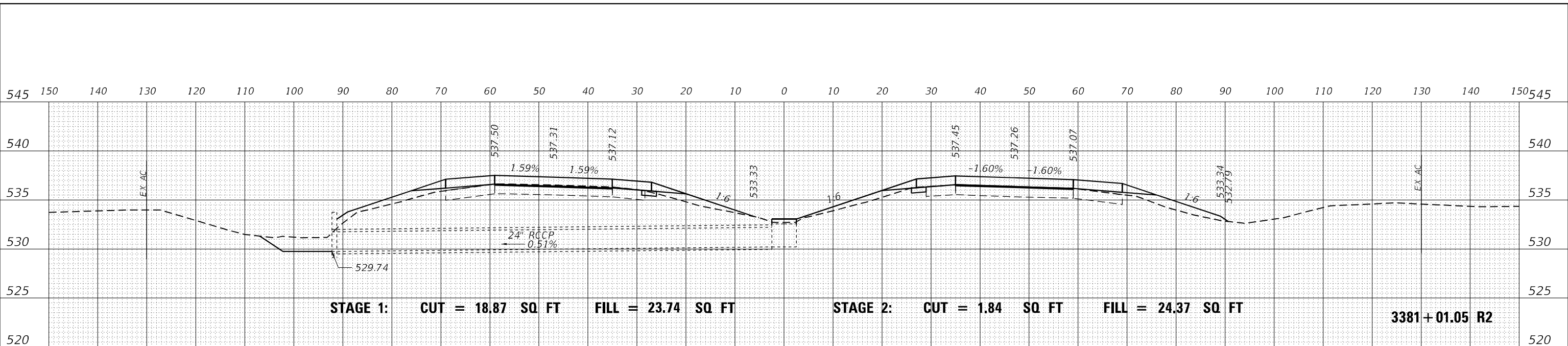
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3379+00.00 R2 TO STA. 3380+00.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	479
			CONTRACT NO. 78604	

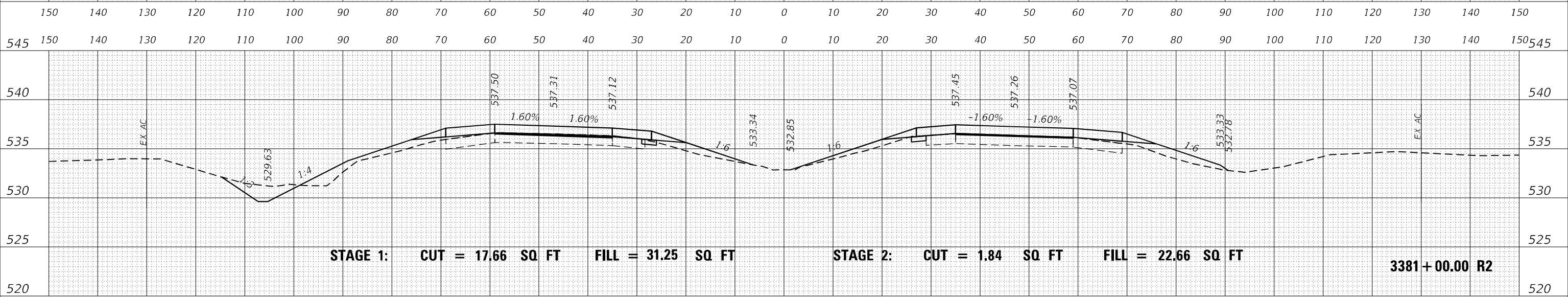
* (41-6,41-6-1,41-7)RS-2;BSMART 2023

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



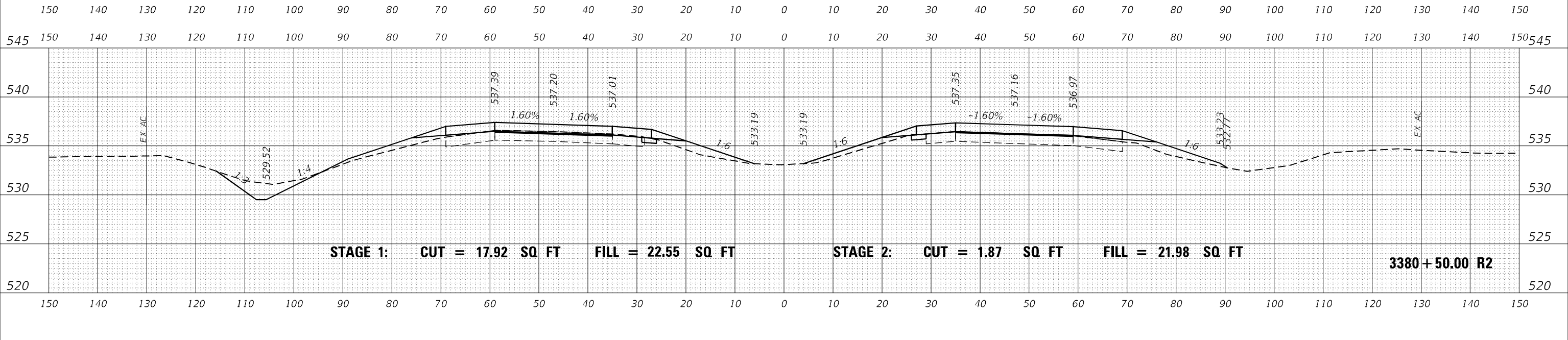
STAGE 1: CUT = 18.87 SQ FT FILL = 23.74 SQ FT STAGE 2: CUT = 1.84 SQ FT FILL = 24.37 SQ FT 3381+01.05 R2

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



STAGE 1: CUT = 17.66 SQ FT FILL = 31.25 SQ FT STAGE 2: CUT = 1.84 SQ FT FILL = 22.66 SQ FT 3381+00.00 R2

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



STAGE 1: CUT = 17.92 SQ FT FILL = 22.55 SQ FT STAGE 2: CUT = 1.87 SQ FT FILL = 21.98 SQ FT 3380+50.00 R2

MODEL: D:\mfr\... I-64\380+50.00 R2.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 20,000 * / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:08 AM	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

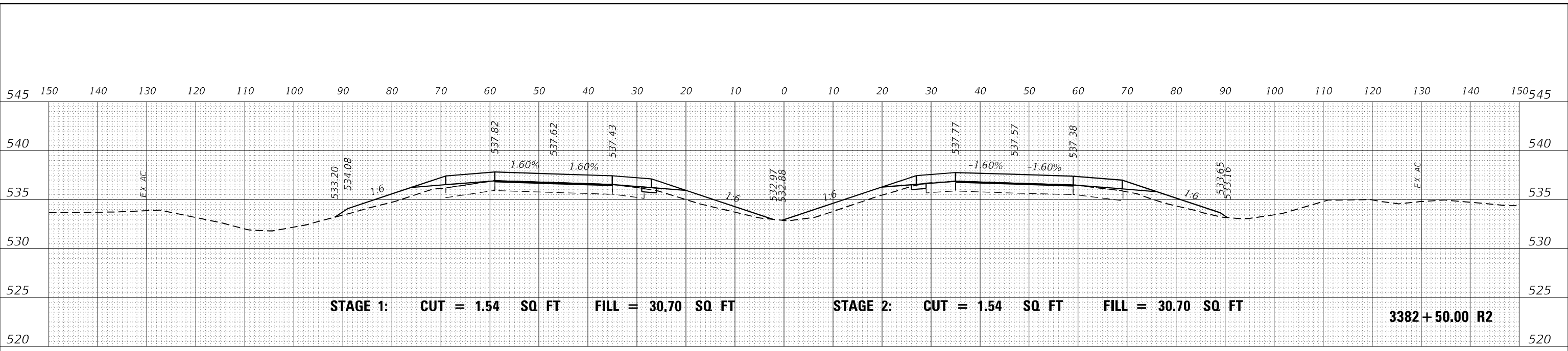
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3380+50.00 R2 TO STA. 3381+01.05 R2

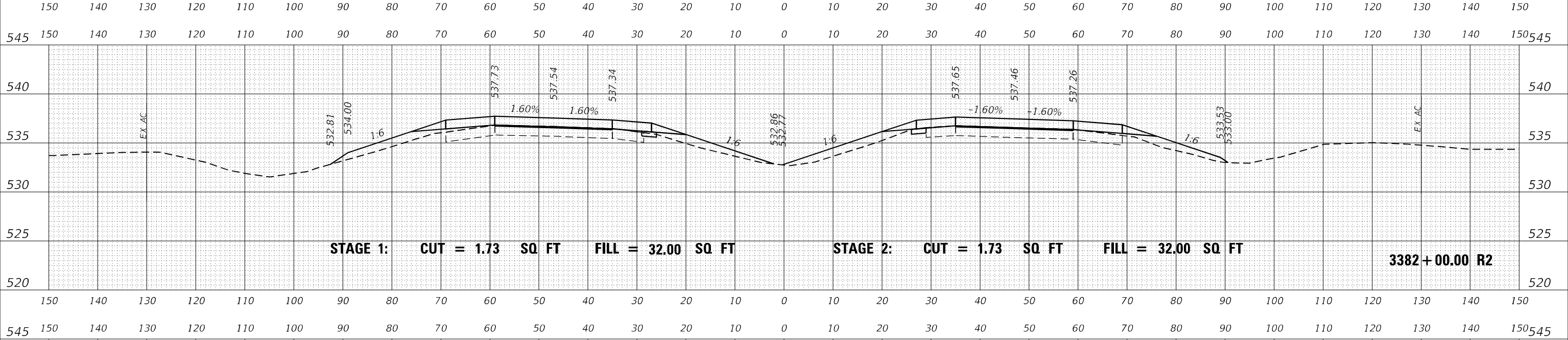
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	480
				CONTRACT NO. 78604

* (41-6,41-6-1,41-7)RS-2;BSMART 2023

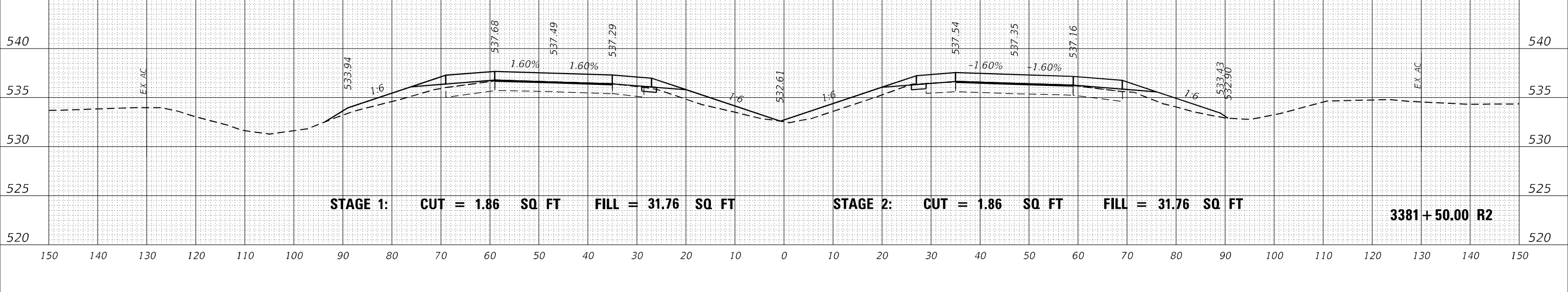
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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NOTE BOOK	PLOTTED
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FILE NAME: ...02\8604-RS-XS-1.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
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PLOT DATE = 11/4/2022 - 9:31:08 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

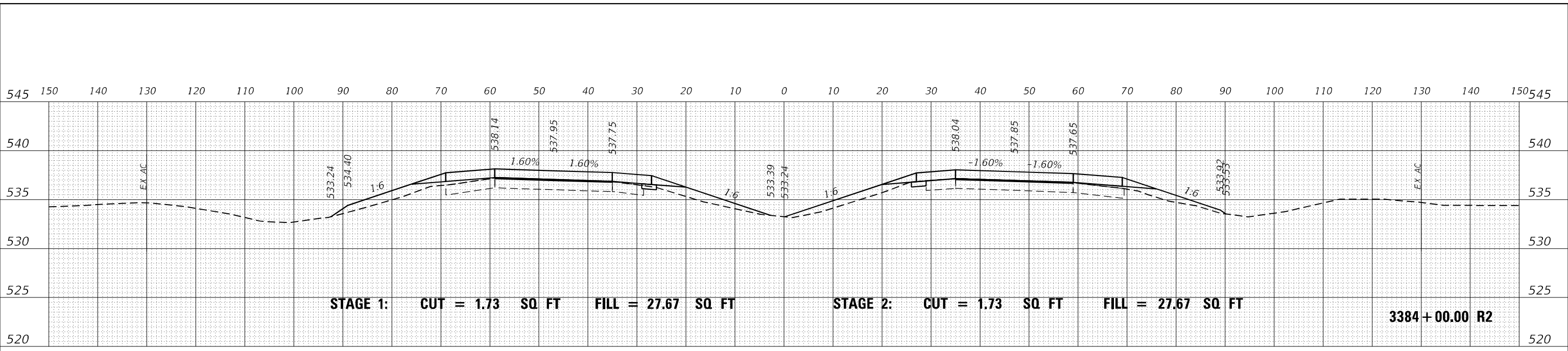
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3381+50.00 R2 TO STA. 3382+50.00 R2

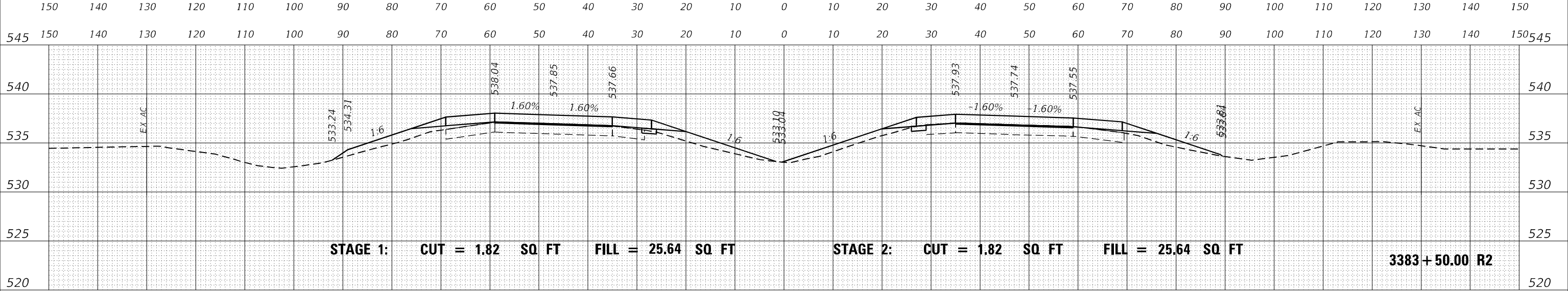
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	481
CONTRACT NO. 78604				

(41-6,41-6-1,41-7)RS-2;BSMART 2023

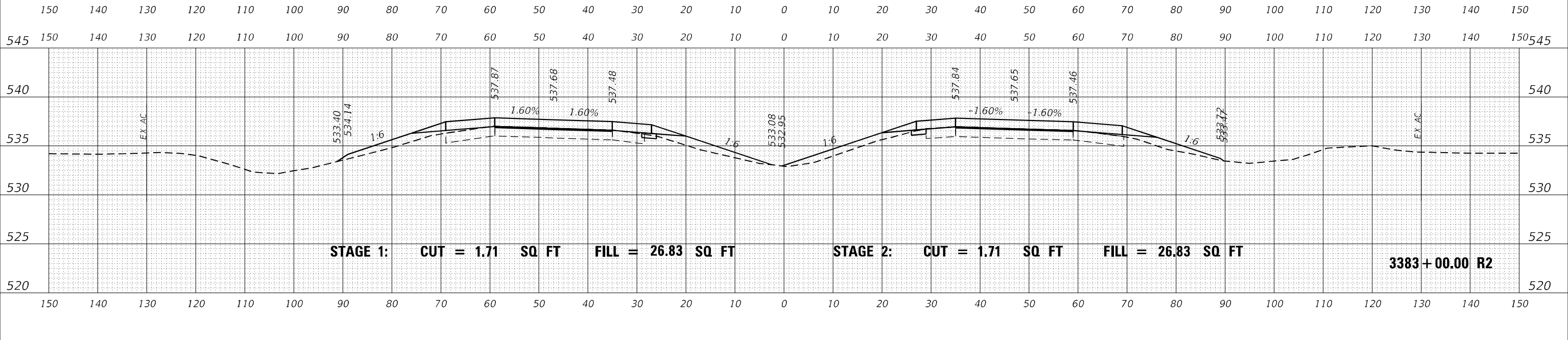
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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FILE NAME: ...02\8604-RS-XS-1.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

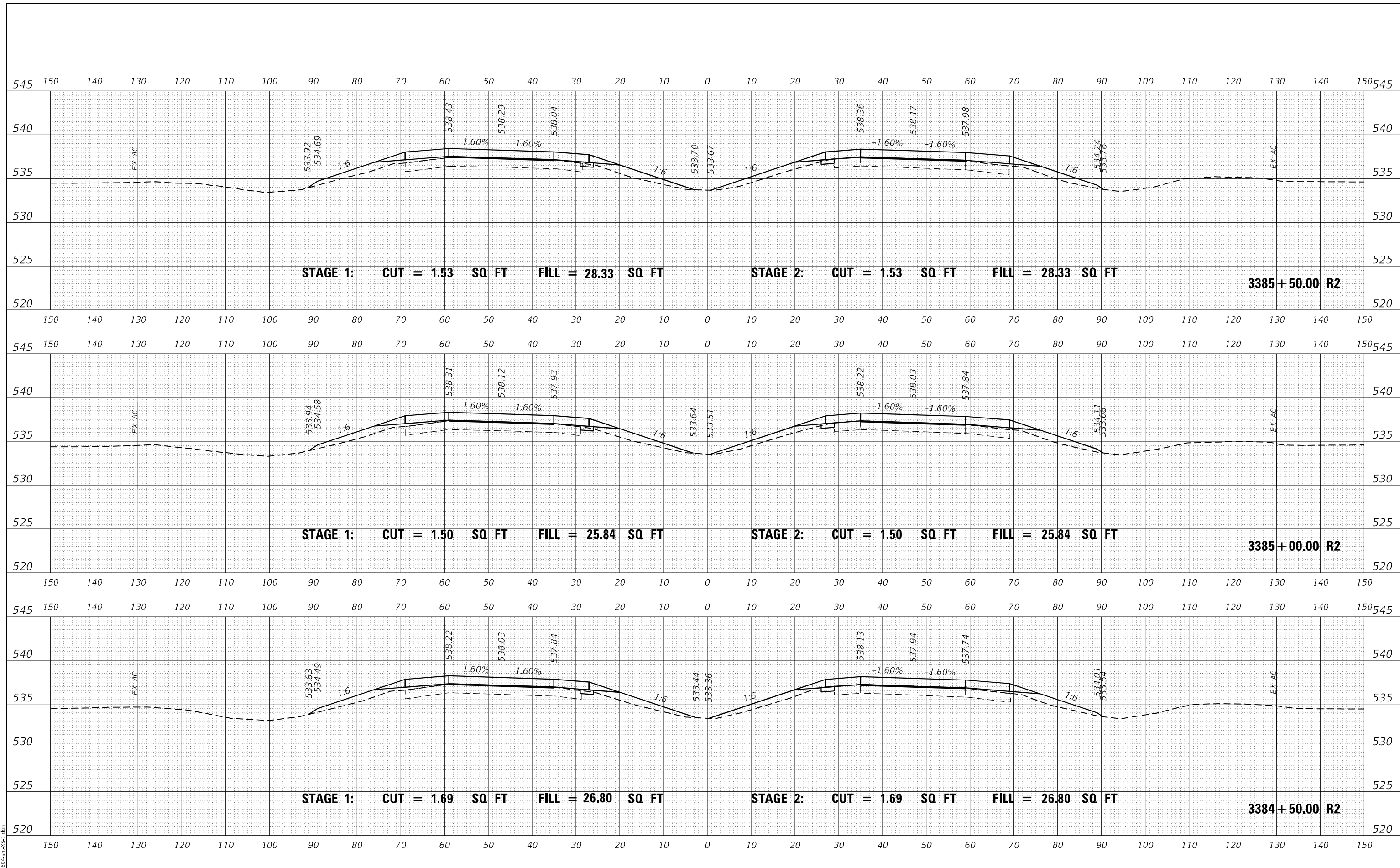
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3383+00.00 R2 TO STA. 3384+00.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	482
			CONTRACT NO. 78604	

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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USER NAME = dhawes	DESIGNED -	REVISED -
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PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

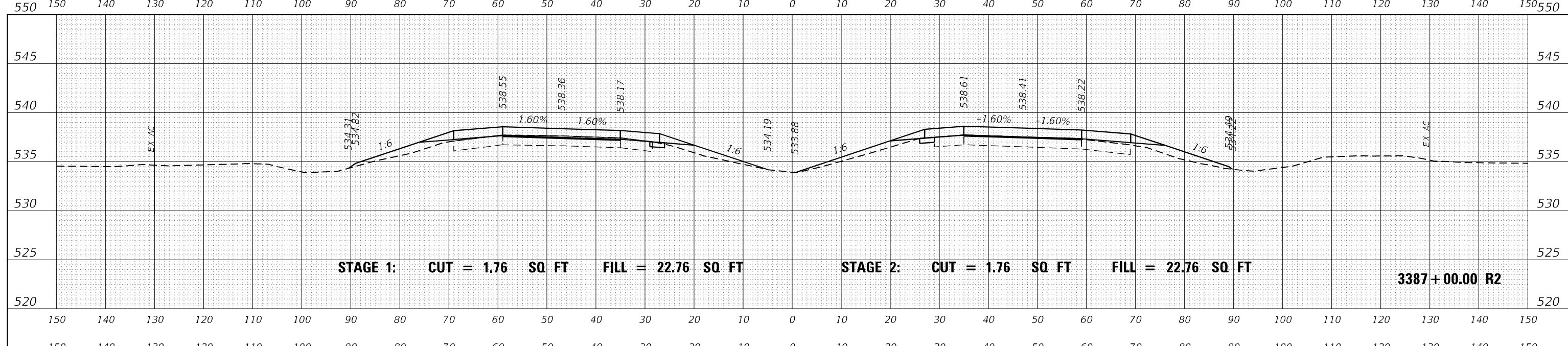
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3384+50.00 R2 TO STA. 3385+50.00 R2

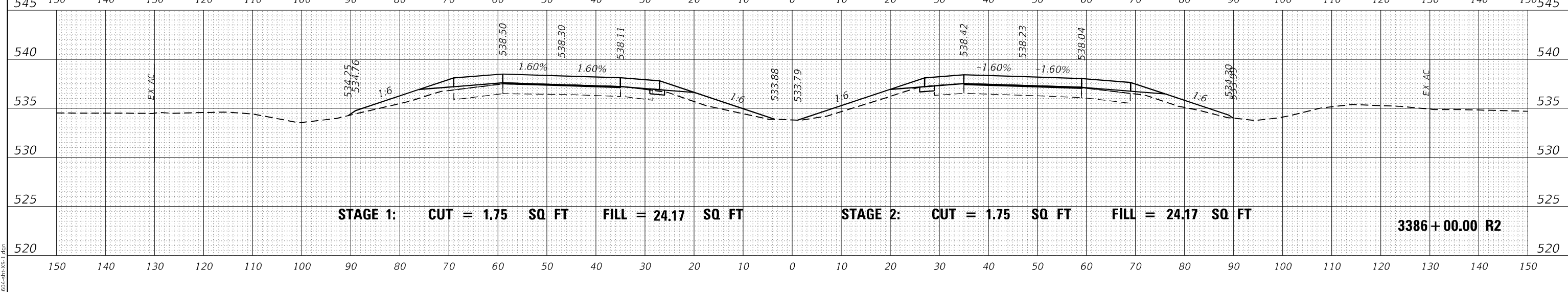
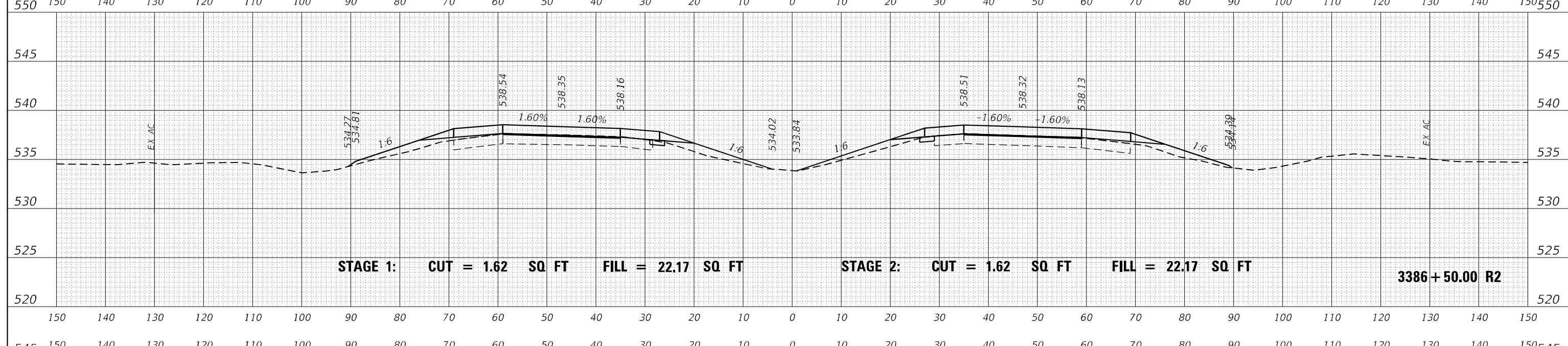
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	483
			CONTRACT NO. 78604	

(41-6,41-6-1,41-7)RS-2;BSMART 2023

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

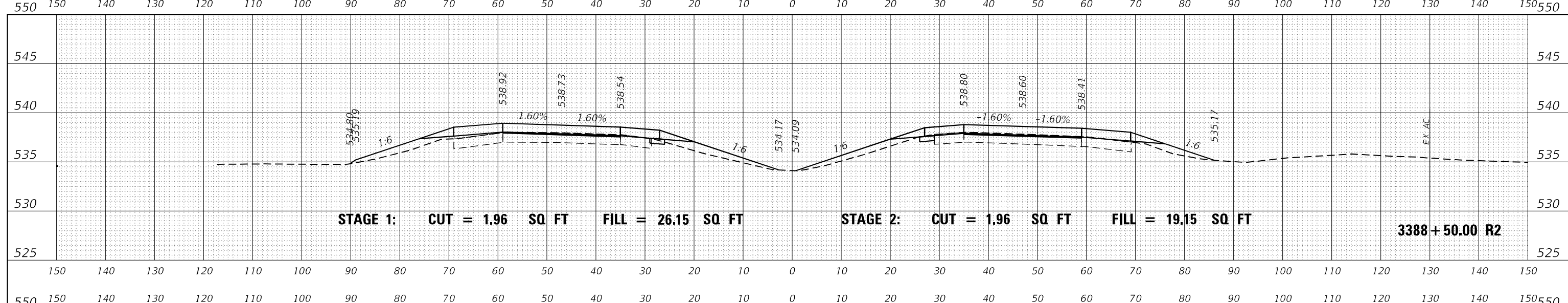
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3386+00.00 R2 TO STA. 3387+00.00 R2

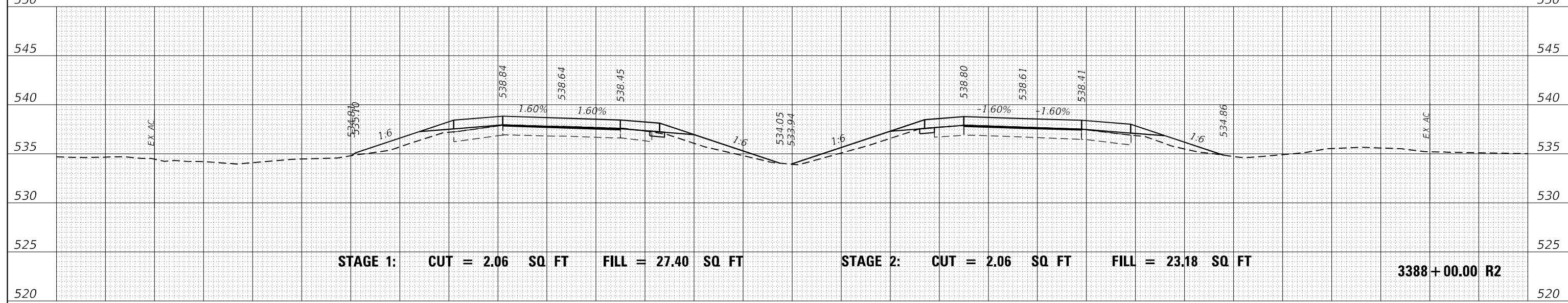
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	484
			CONTRACT NO. 78604	

* (41-6,41-6-1,41-7)RS-2;BSMART 2023

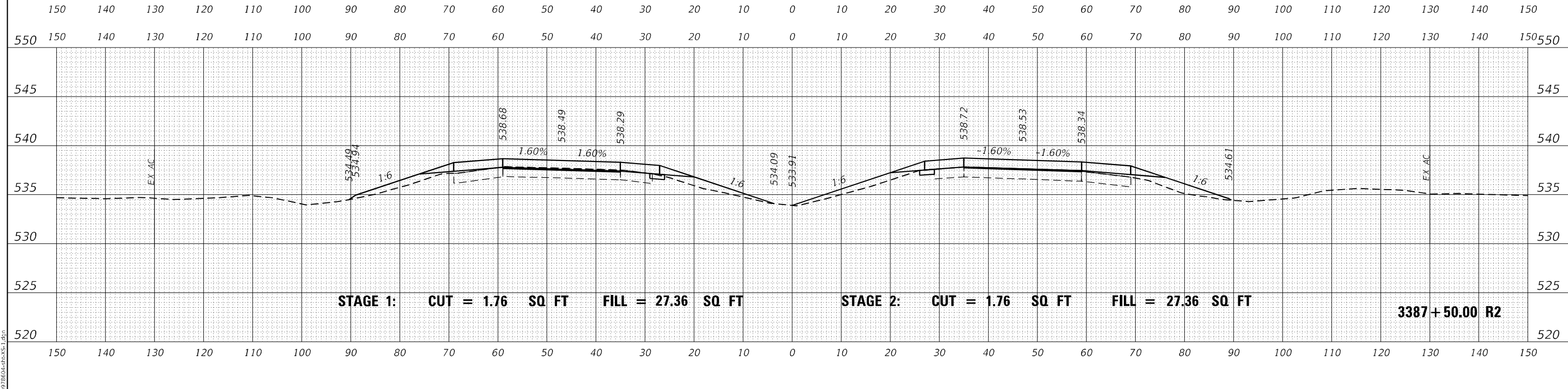
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NOTE BOOK	PLOTTED
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DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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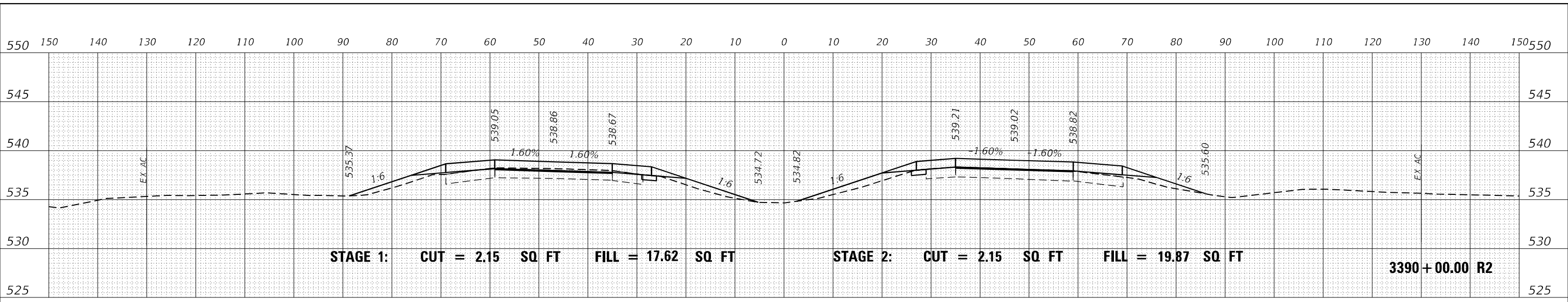
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERSTATE 64 CROSS SECTIONS	
SCALE: 50	SHEET OF SHEETS
STA. 3387+50.00 R2 TO STA. 3388+50.00 R2	

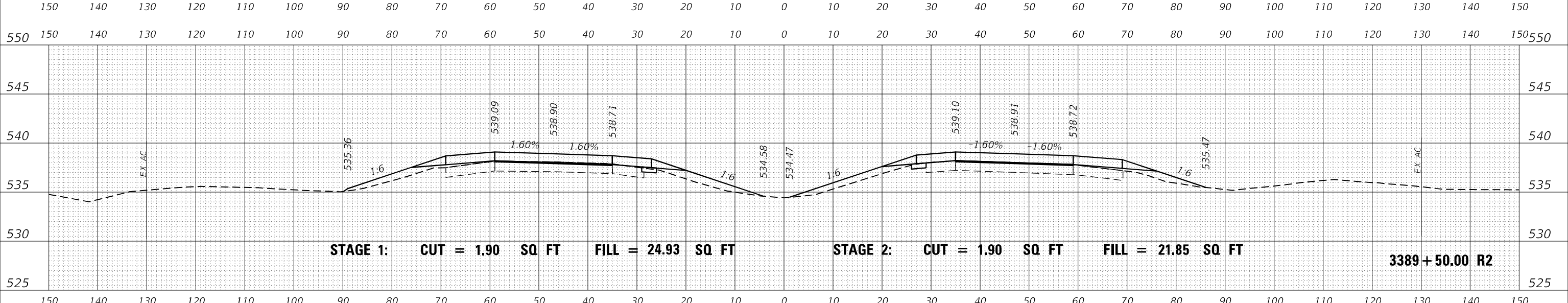
F.A.I. RTE. I-64	SECTION *	COUNTY JEFFERSON	TOTAL SHEETS 1052	SHEET NO. 485
CONTRACT NO. 78604			ILLINOIS FED. AID PROJECT	

* (41-6,41-6-1,41-7)RS-2;BSMART 2023

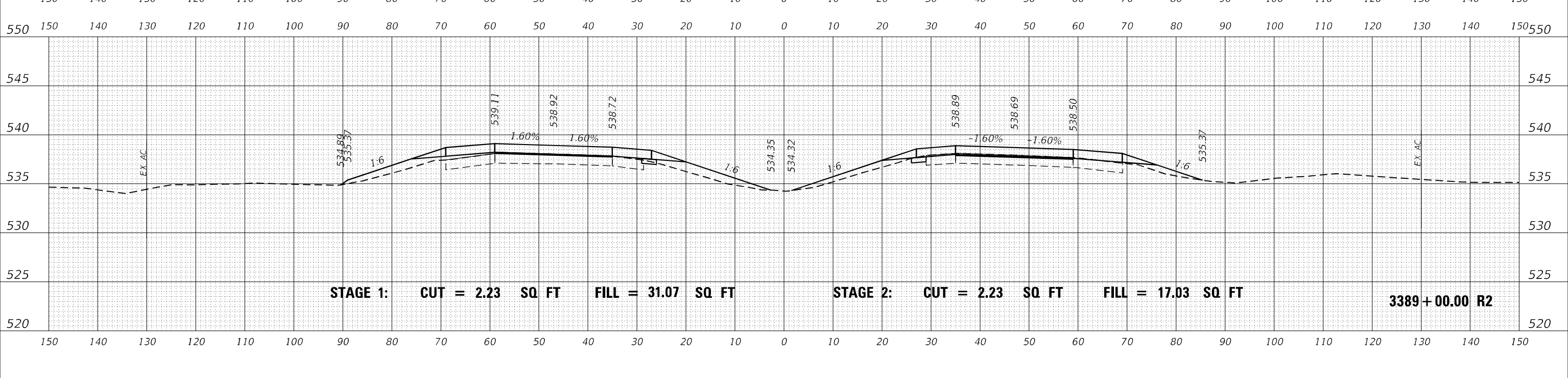
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NOTE BOOK	PLOTTED
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USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:11 AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

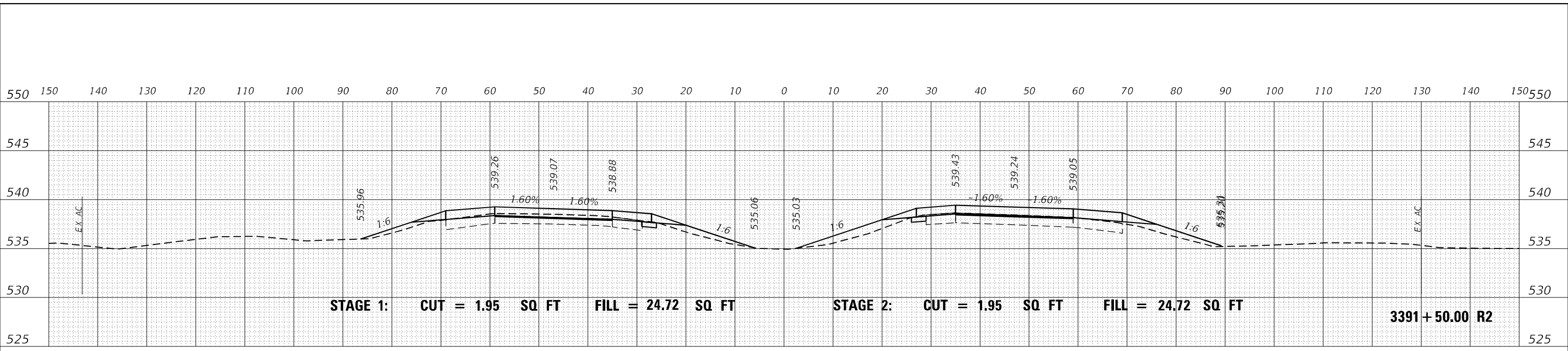
SCALE: 50	SHEET	OF	SHEETS	STA. 3389+00.00 R2 TO STA. 3390+00.00 R2
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INTERSTATE 64
CROSS SECTIONS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	486
			CONTRACT NO. 78604	
ILLINOIS FED. AID PROJECT				

* (41-6,41-6-1,41-7)RS-2;BSMART 2023

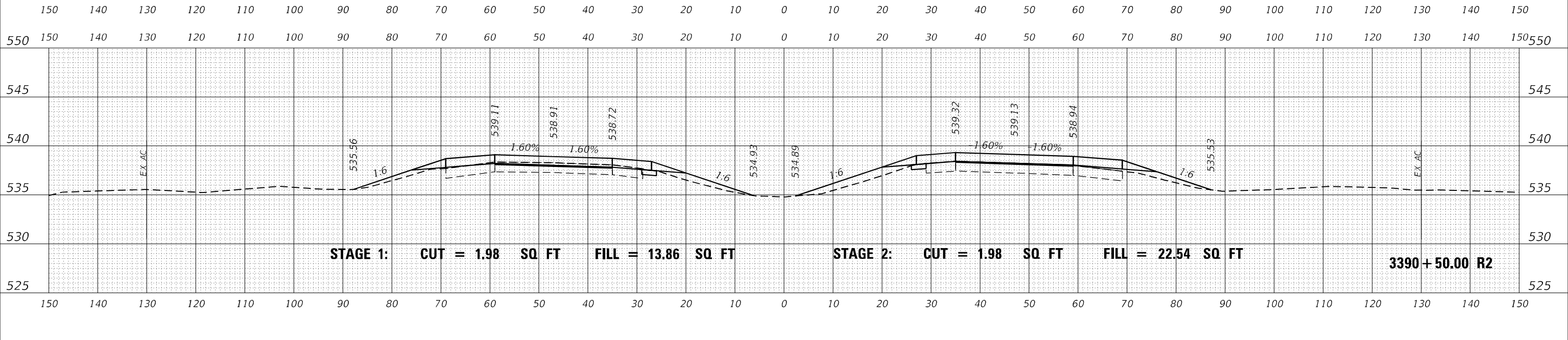
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS
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USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:11 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

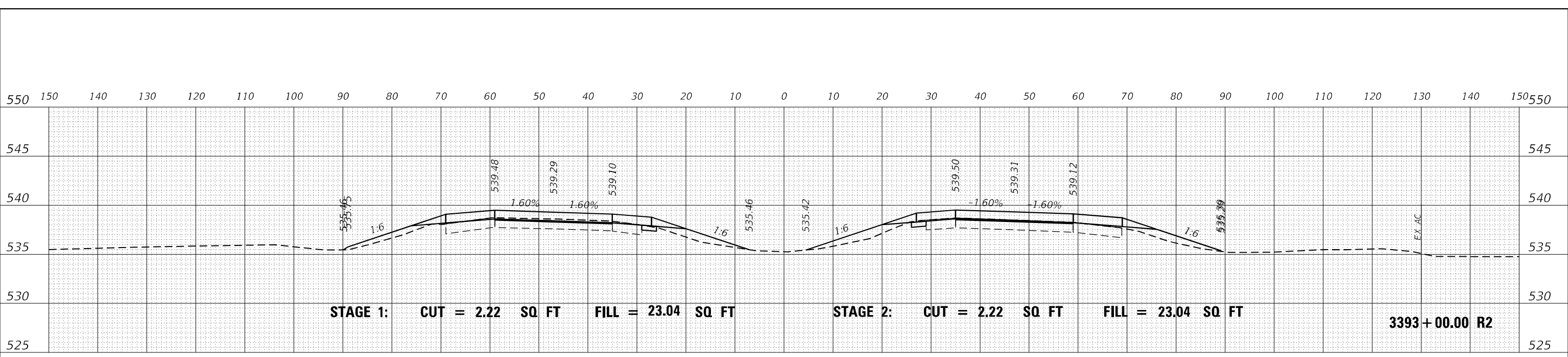
**INTERSTATE 64
CROSS SECTIONS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	487
			CONTRACT NO. 78604	

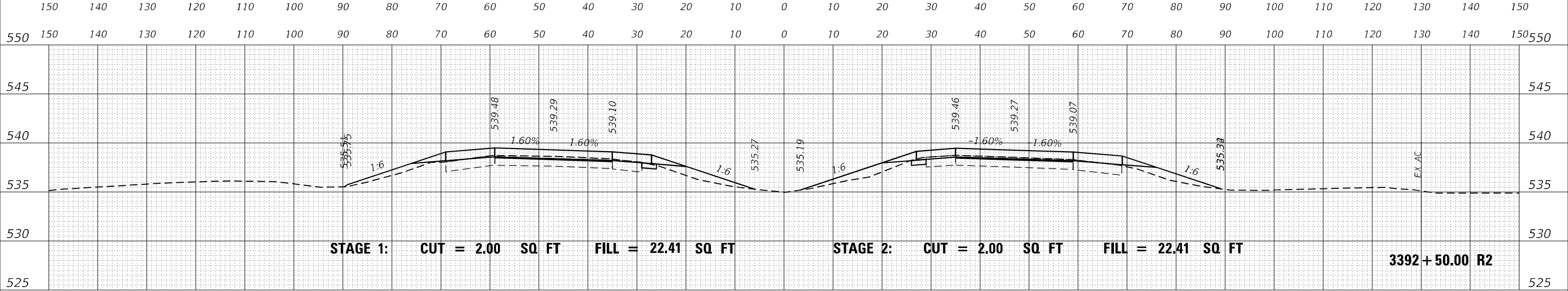
SCALE: 50 SHEET OF SHEETS STA. 3390+50.00 R2 TO STA. 3391+50.00 R2

(41-6,41-6-1,41-7)RS-2;BSMART 2023

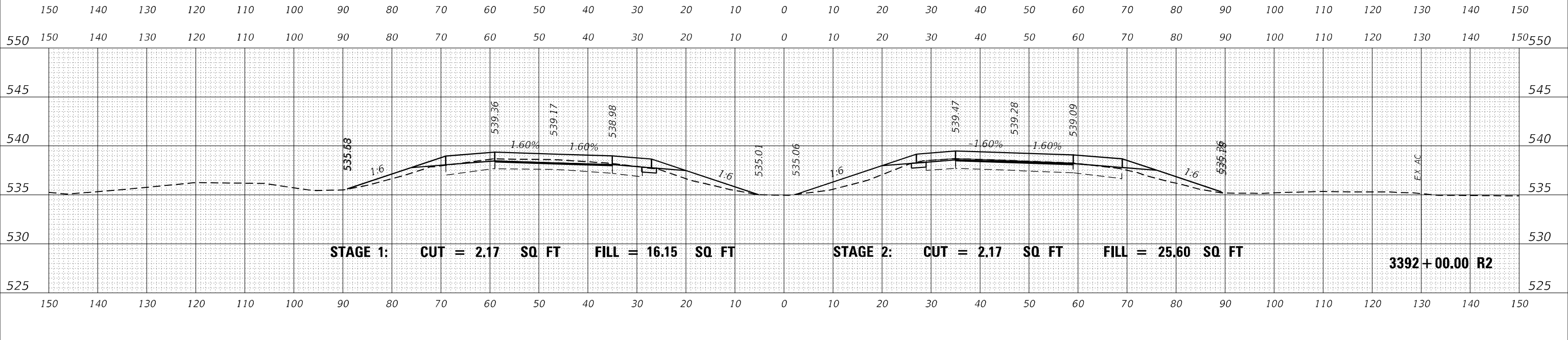
DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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DATE	
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DATE	
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ORIGINAL SURVEY	SURVEYED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



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USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 11/4/2022 - 9:31:12 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 64
CROSS SECTIONS**

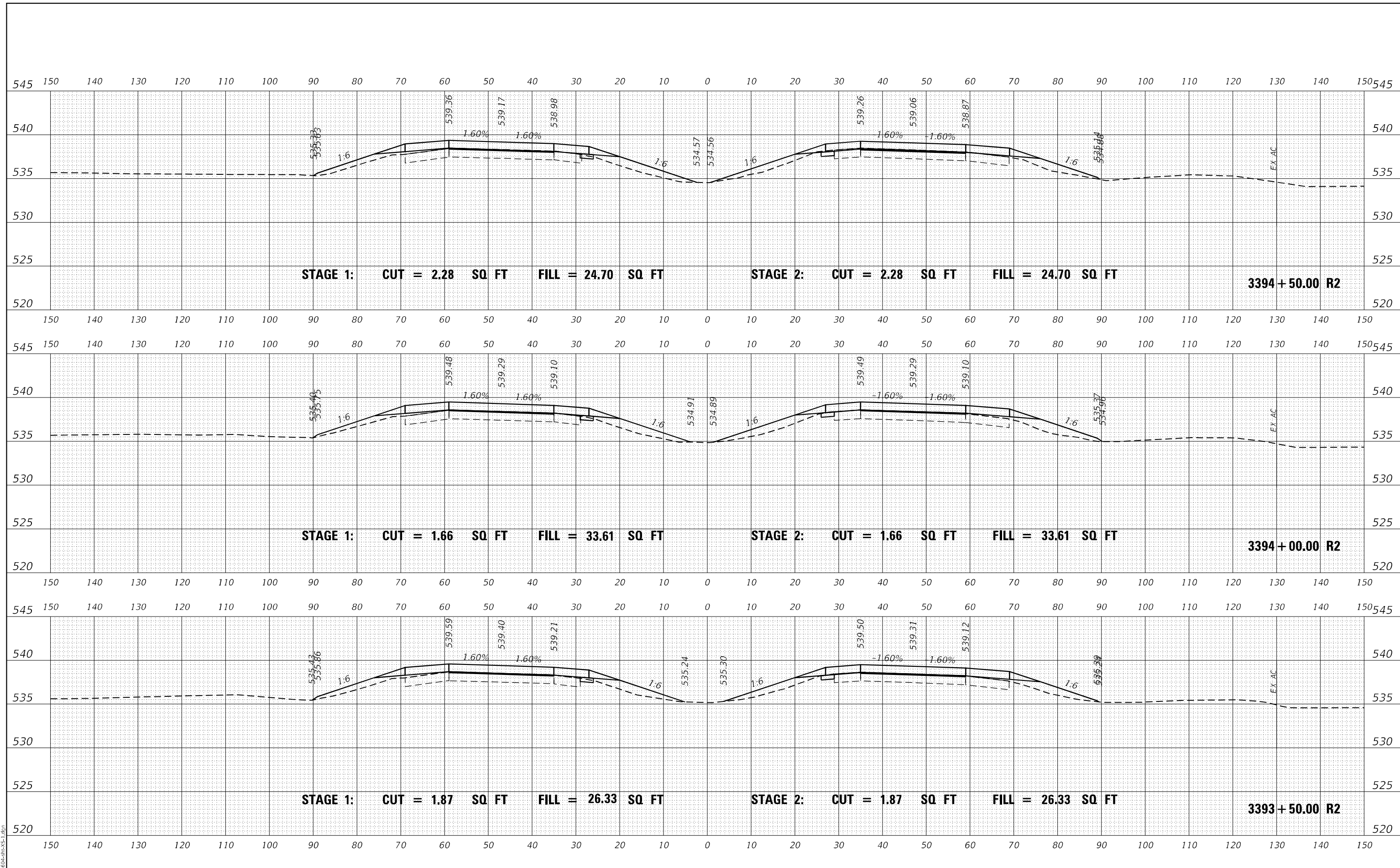
SCALE: 50 SHEET OF SHEETS STA. 3392+00.00 R2 TO STA. 3393+00.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	488
			CONTRACT NO. 78604	

(41-6,41-6-1,41-7)RS-2;BSMART 2023

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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ORIGINAL SURVEY	SURVEYED
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USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:12 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

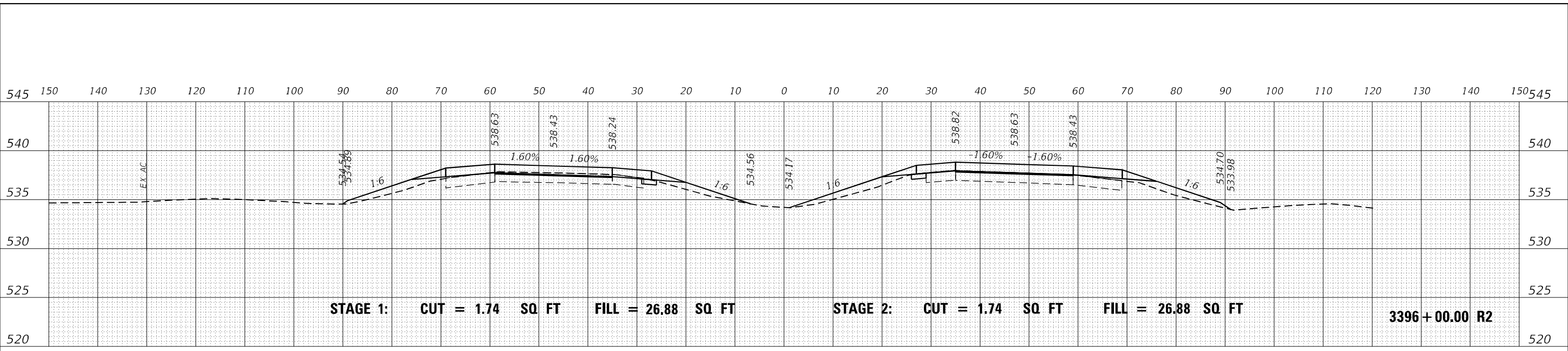
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3393+50.00 R2 TO STA. 3394+50.00 R2

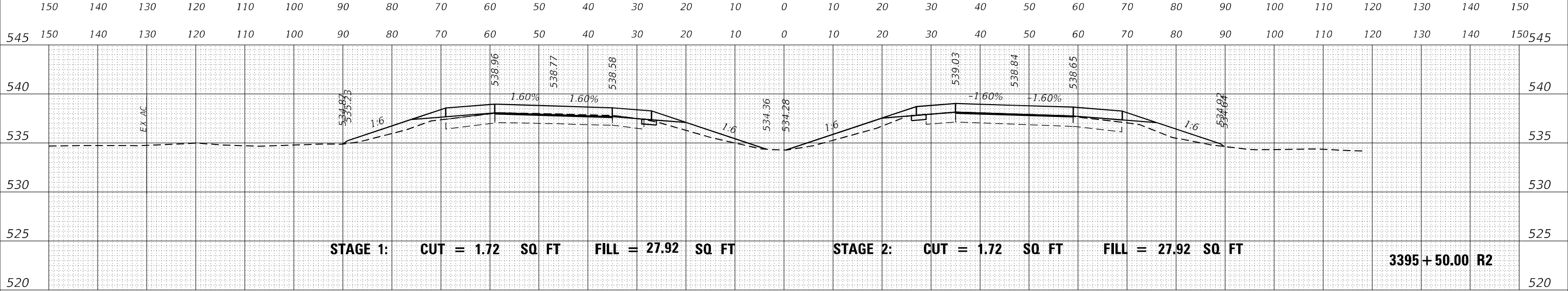
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	489
			CONTRACT NO. 78604	
ILLINOIS FED. AID PROJECT				

(41-6,41-6-1,41-7)RS-2;BSMART 2023

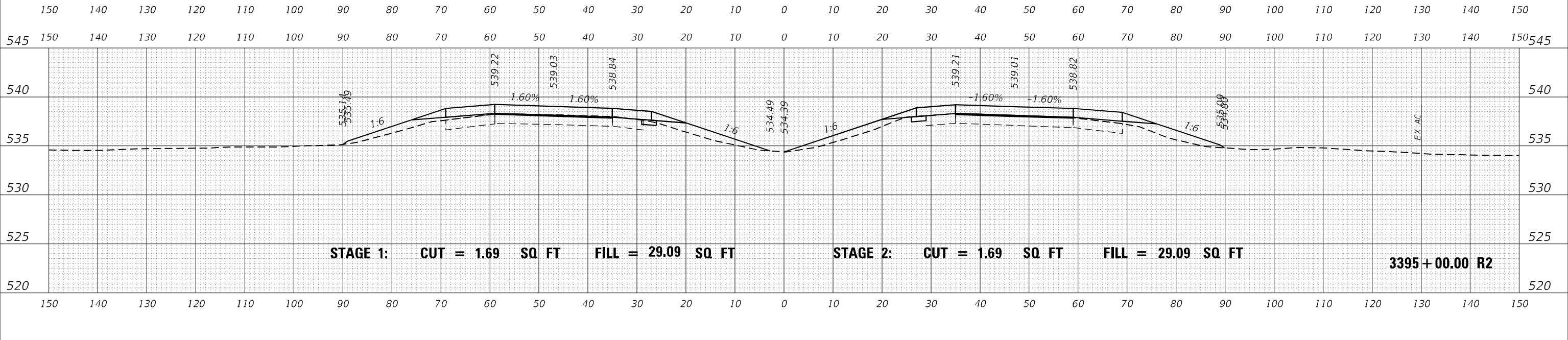
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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FILE NAME: ...029\8604-RS-VS-1.dgn

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PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

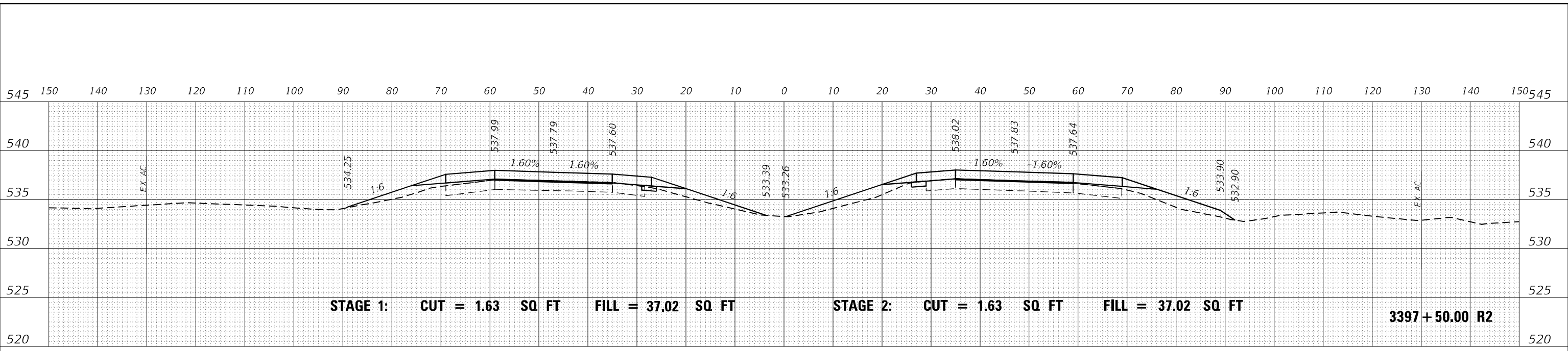
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3395+00.00 R2 TO STA. 3396+00.00 R2

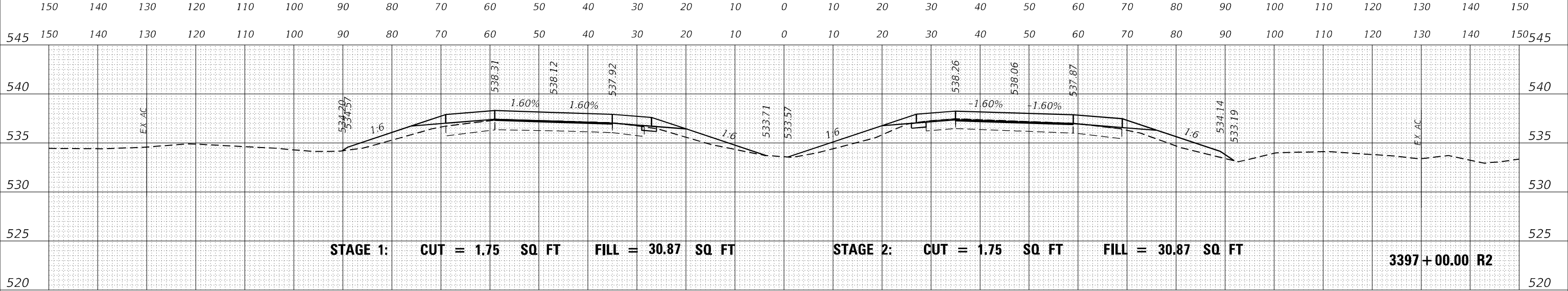
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	490
			CONTRACT NO. 78604	
		ILLINOIS	FED. AID PROJECT	

* (41-6,41-6-1,41-7)RS-2;BSMART 2023

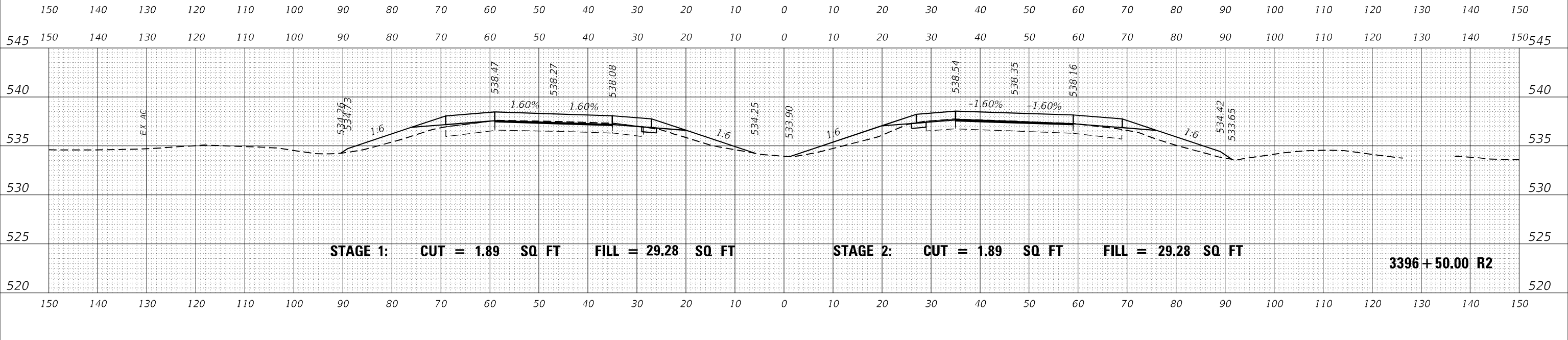
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

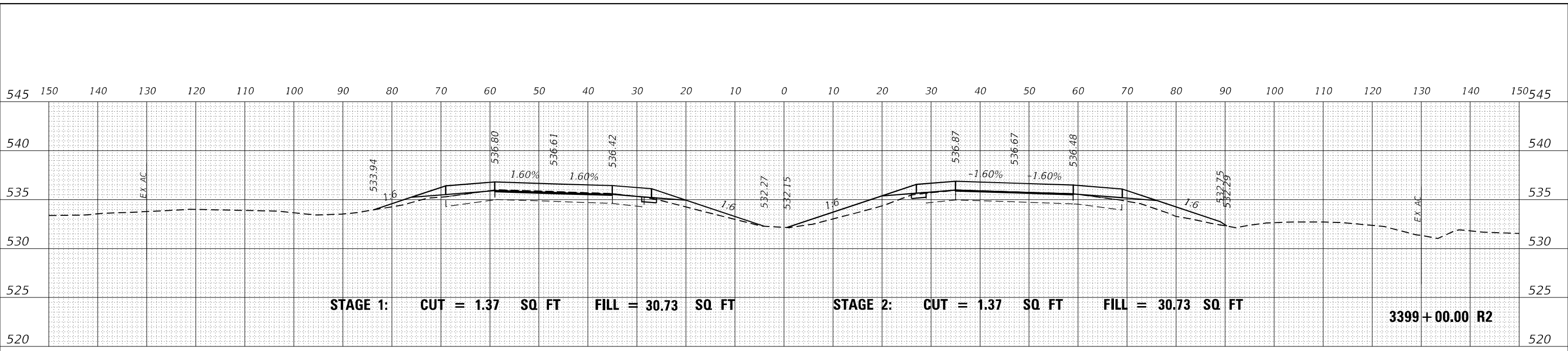
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3396+50.00 R2 TO STA. 3397+50.00 R2

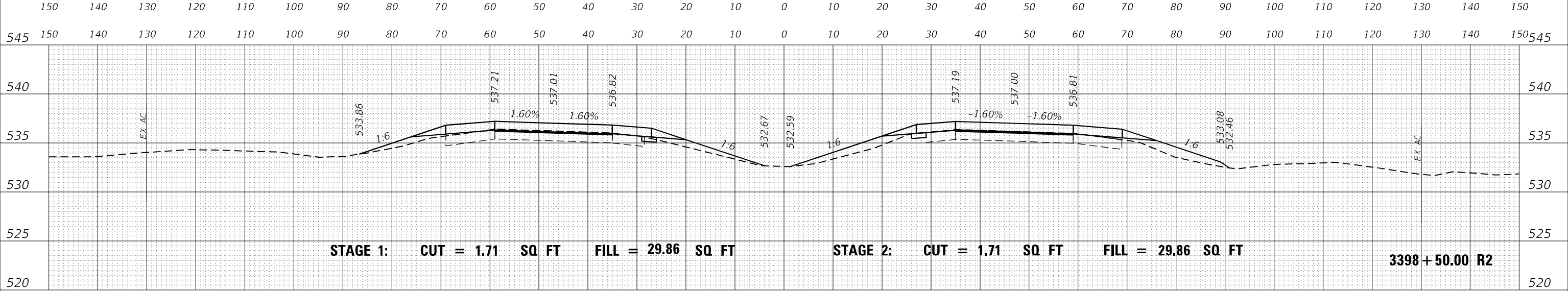
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	491
			CONTRACT NO. 78604	

* (41-6,41-6-1,41-7)RS-2;BSMART 2023

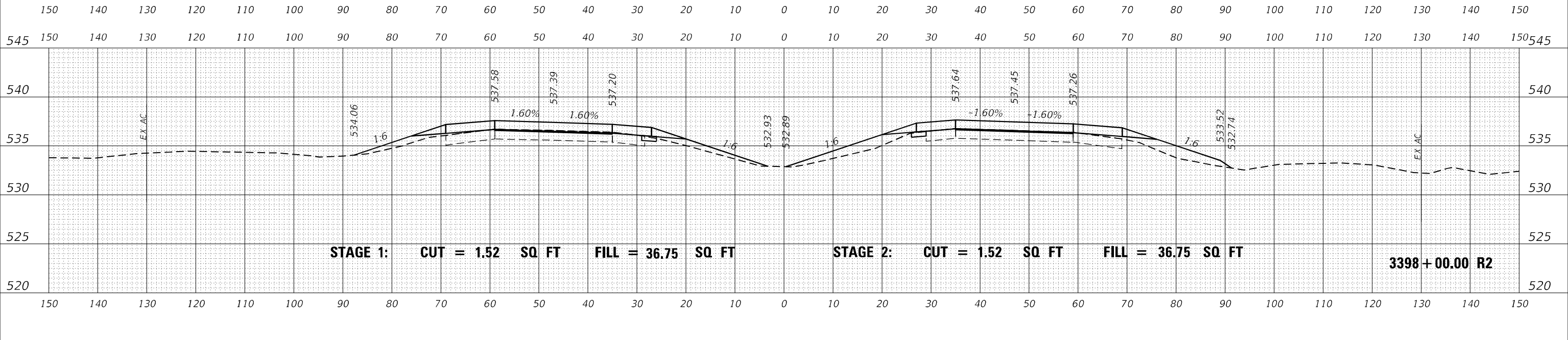
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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DATE	
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ORIGINAL SURVEY	SURVEYED
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FILE NAME: ...029\8604-RS-1.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
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PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:14 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 64
CROSS SECTIONS**

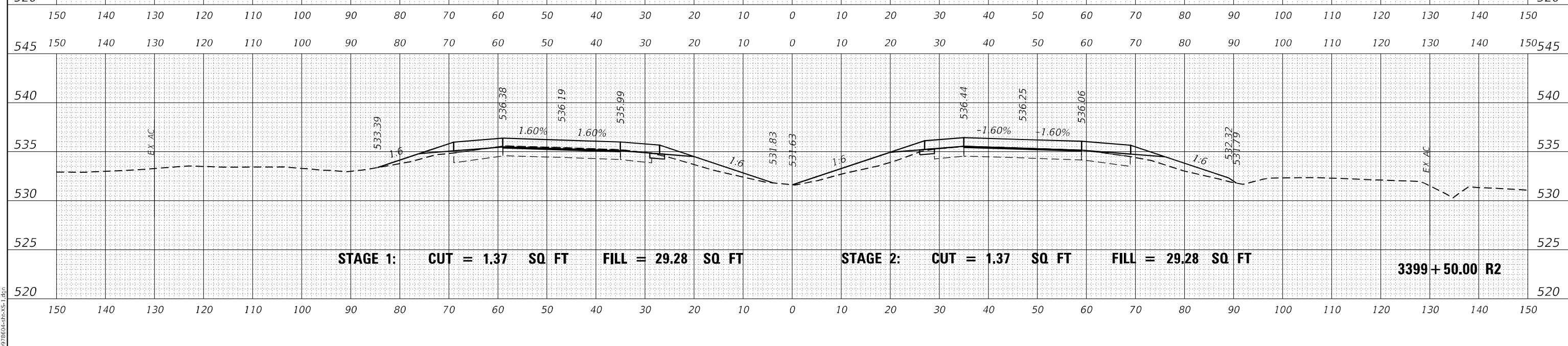
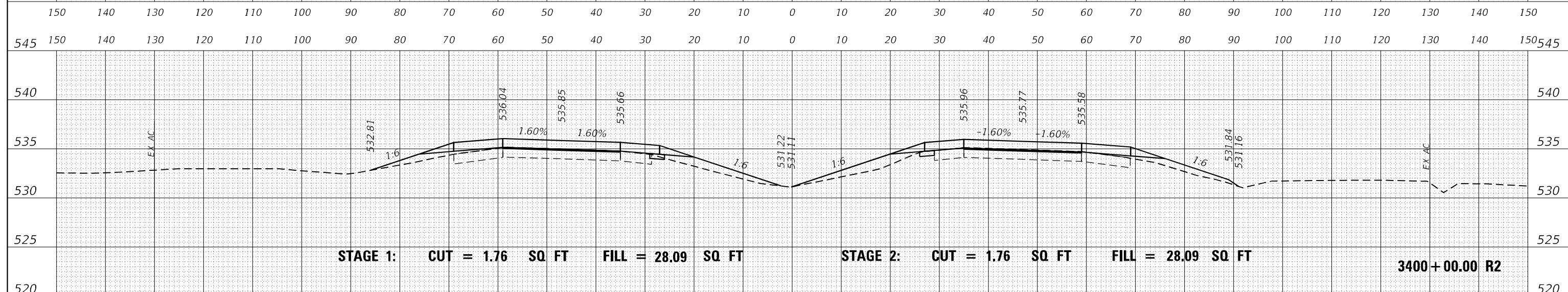
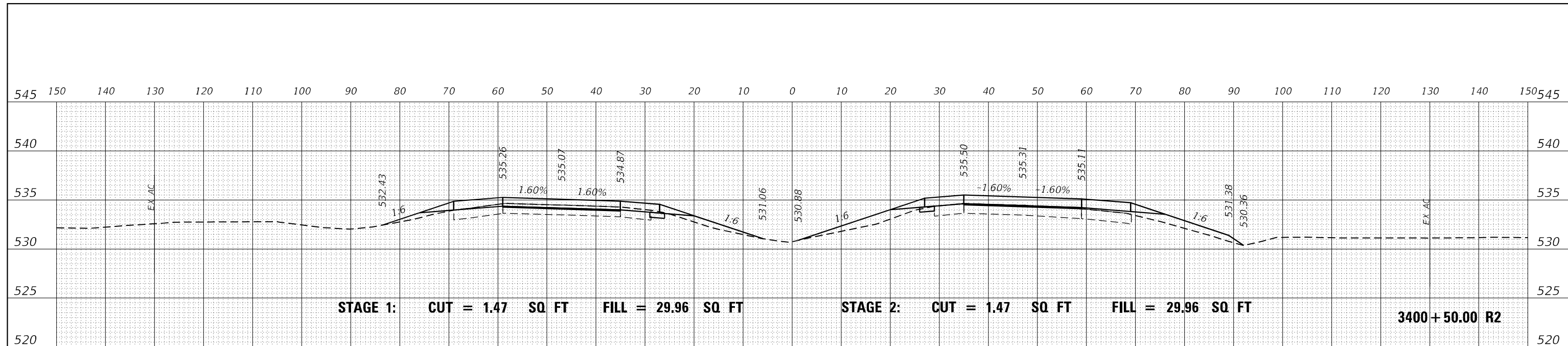
SCALE: 50 SHEET OF SHEETS STA. 3398+00.00 R2 TO STA. 3399+00.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	492
			CONTRACT NO. 78604	

(41-6,41-6-1,41-7)RS-2;BSMART 2023

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

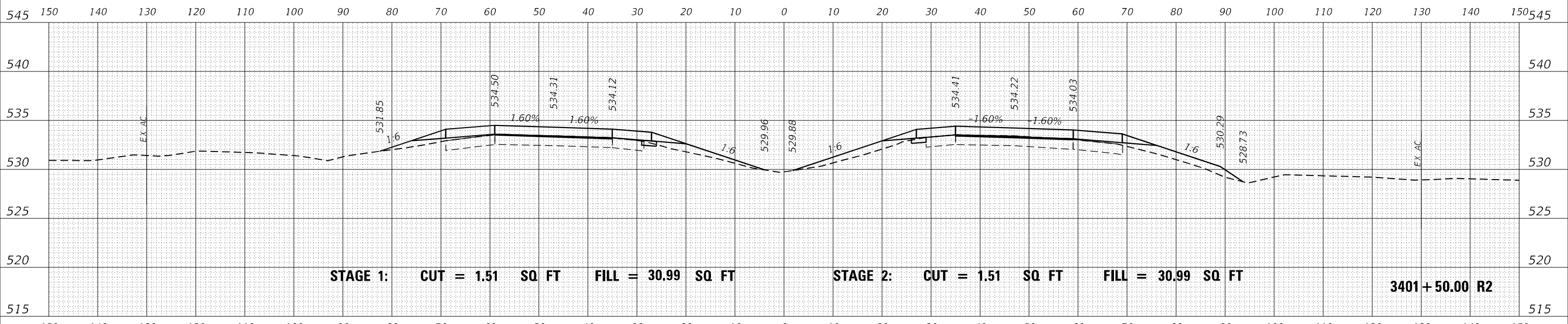
SCALE: 50		SHEET OF SHEETS		STA. 3399+50.00 R2 TO STA. 3400+50.00 R2	
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INTERSTATE 64
CROSS SECTIONS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	493
CONTRACT NO. 78604				

* (41-6,41-6-1,41-7)RS-2;BSMART 2023

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



DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

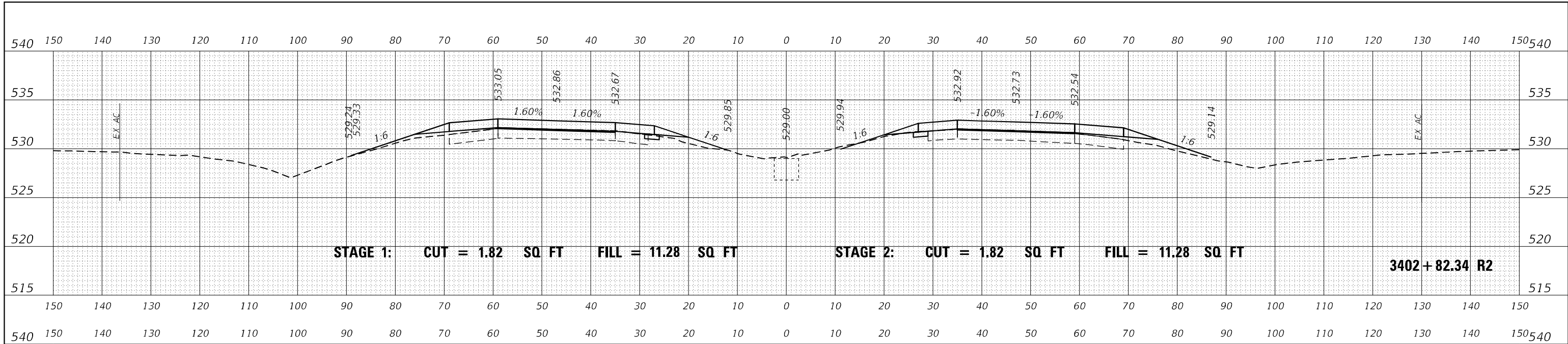
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3401+00.00 R2 TO STA. 3401+50.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	494
CONTRACT NO. 78604				

(41-6,41-6-1,41-7)RS-2;BSMART 2023

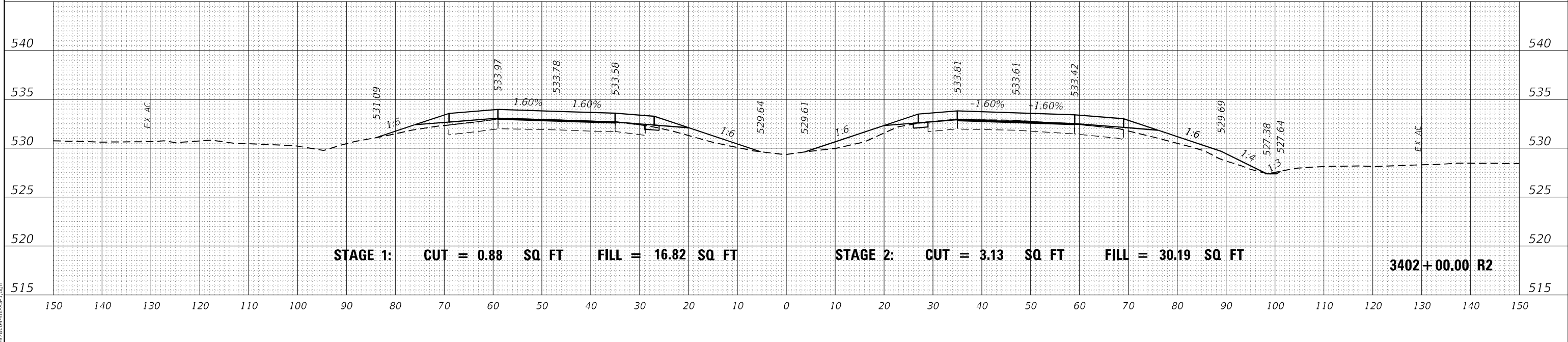
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ORIGINAL SURVEY	SURVEYED
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 64
CROSS SECTIONS**

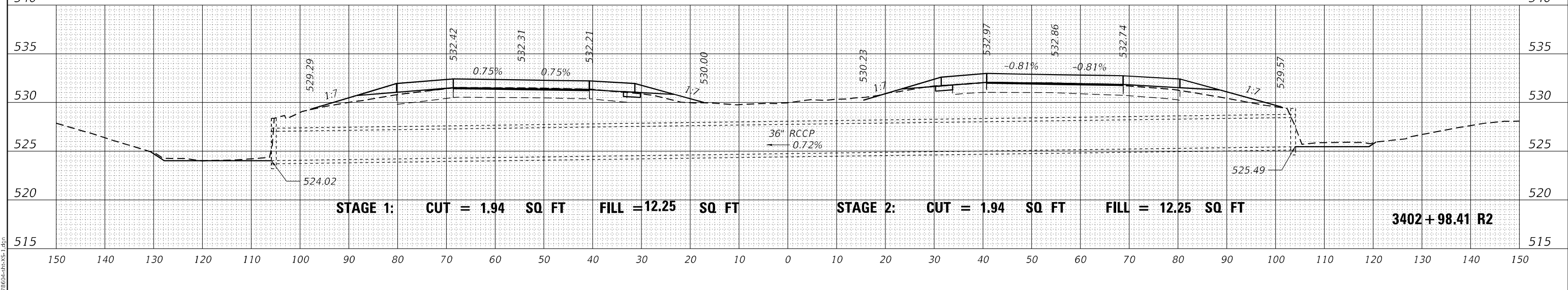
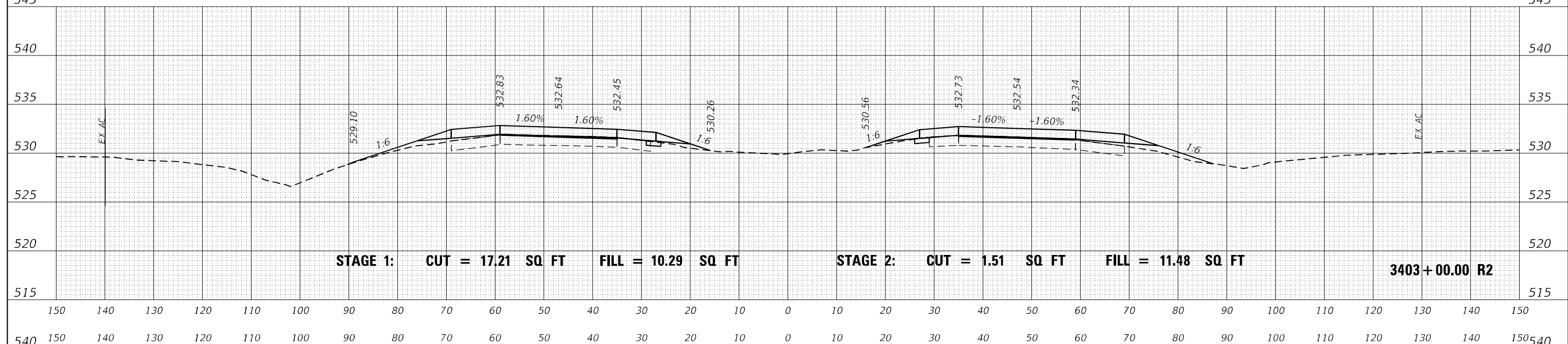
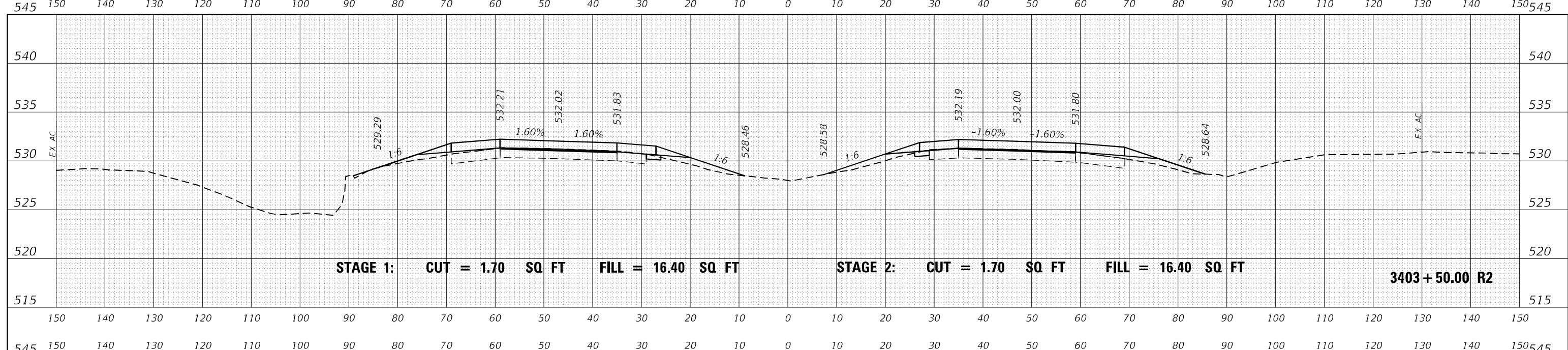
SCALE: 50 SHEET OF SHEETS STA. 3402+00.00 R2 TO STA. 3402+82.34 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	495
		CONTRACT NO. 78604		
		ILLINOIS FED. AID PROJECT		

* (41-6,41-6-1,41-7)RS-2;BSMART 2023

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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MODEL: D:\mfr\...
FILE NAME: ...

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PLOT SCALE = 20,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:16 AM	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

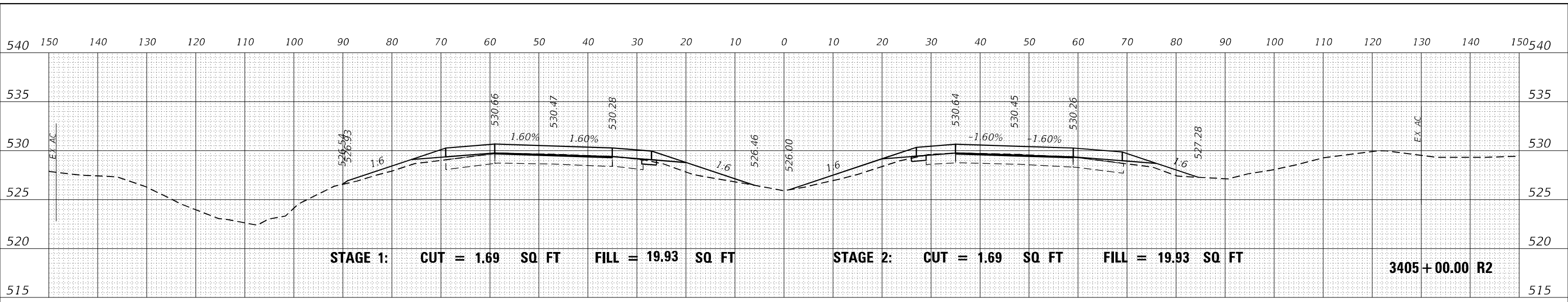
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3402+98.41 R2 TO STA. 3403+50.00 R2

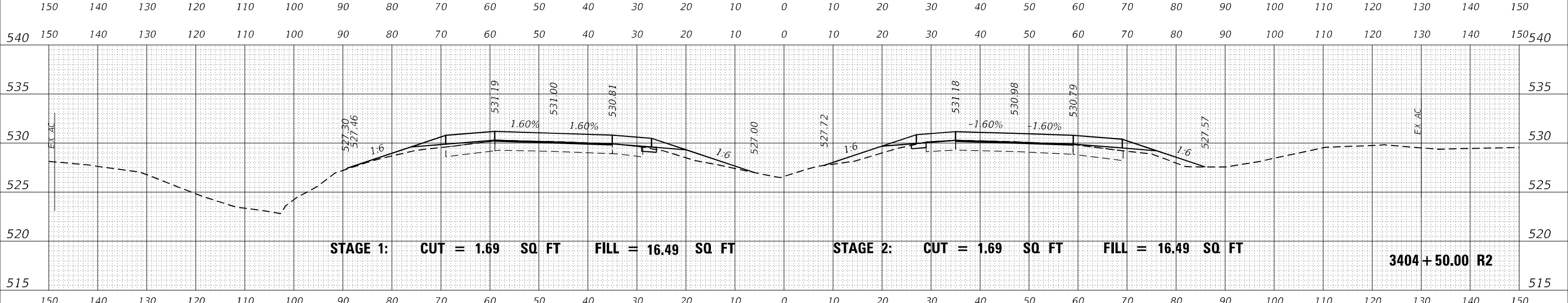
F.A.I. RTE. I-64	SECTION *	COUNTY JEFFERSON	TOTAL SHEETS 1052	SHEET NO. 496
			CONTRACT NO. 78604	
ILLINOIS FED. AID PROJECT				

(41-6,41-6-1,41-7)RS-2;BSMART 2023

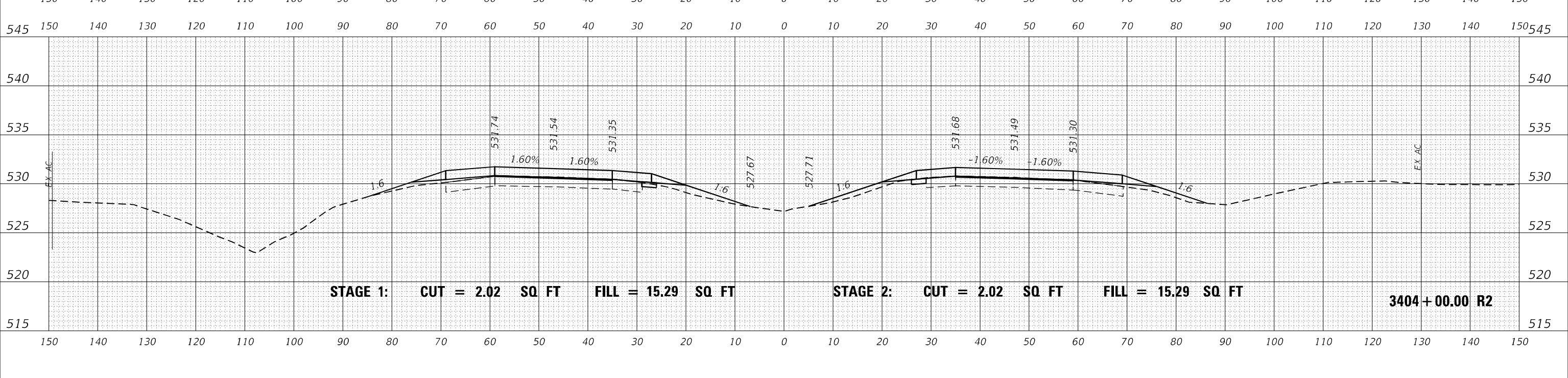
DATE	
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FINAL SURVEY	SURVEYED
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PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 64
CROSS SECTIONS**

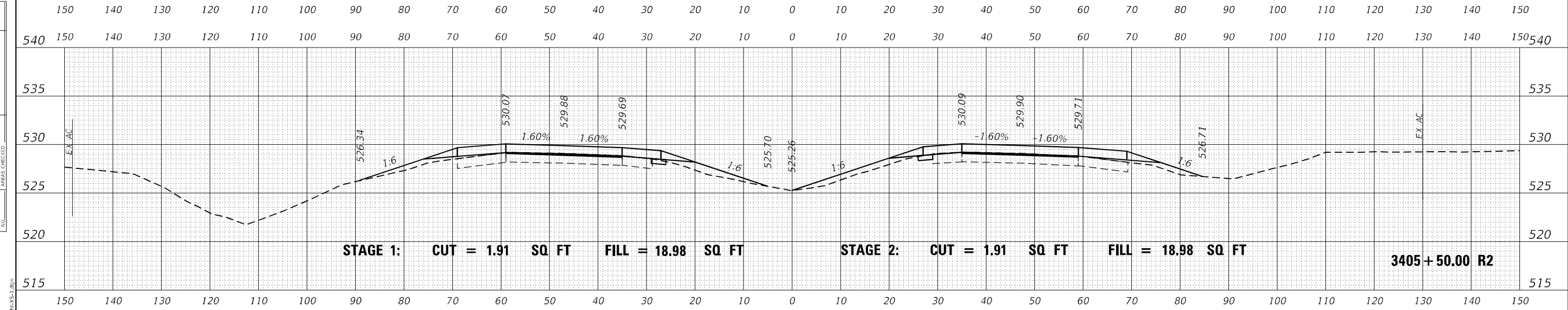
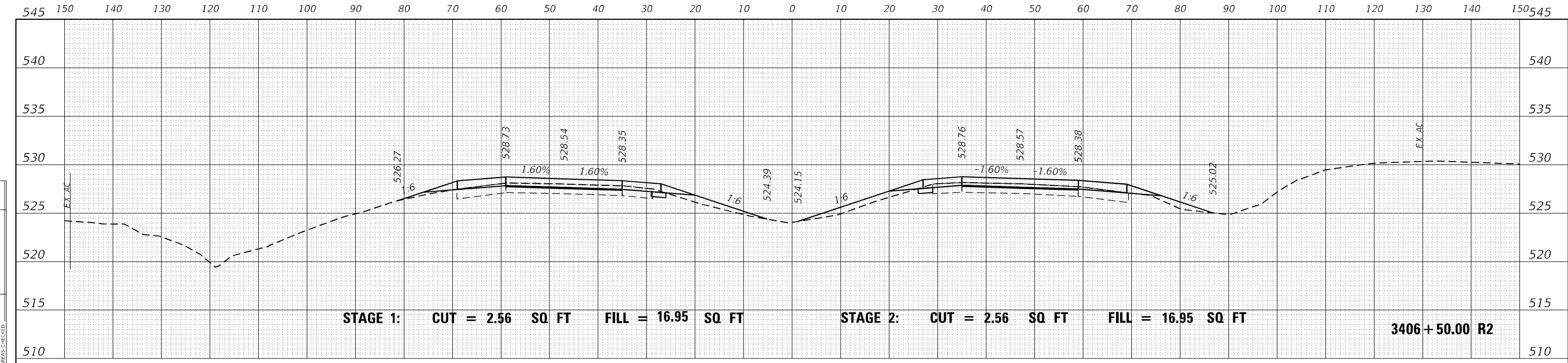
SCALE: 50 SHEET OF SHEETS STA. 3404+00.00 R2 TO STA. 3405+00.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	497
		CONTRACT NO. 78604		
		ILLINOIS FED. AID PROJECT		

* (41-6,41-6-1,41-7)RS-2;BSMART 2023

DATE	
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FINAL SURVEY	SURVEYED
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

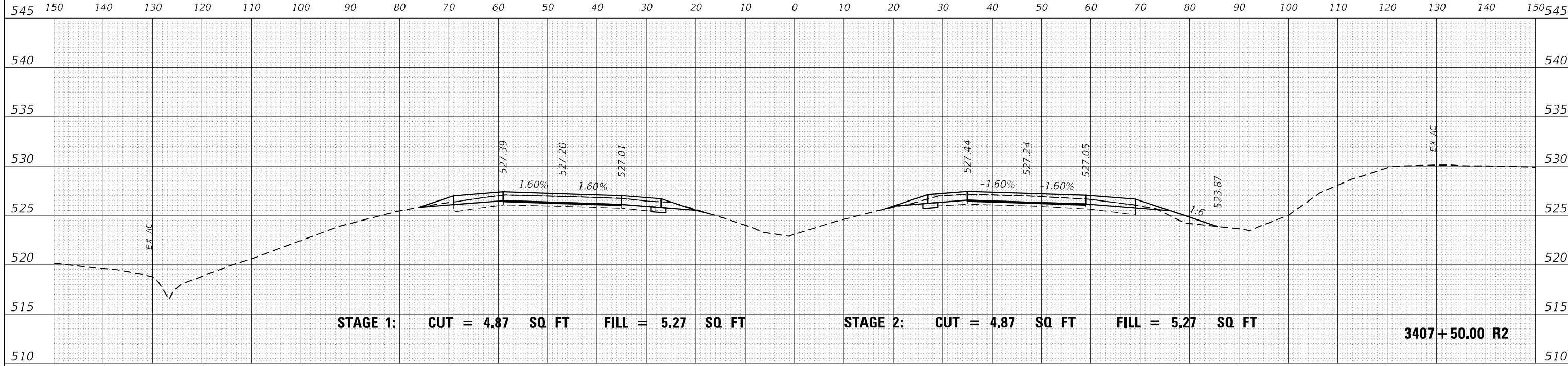
**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3405+50.00 R2 TO STA. 3406+50.00 R2

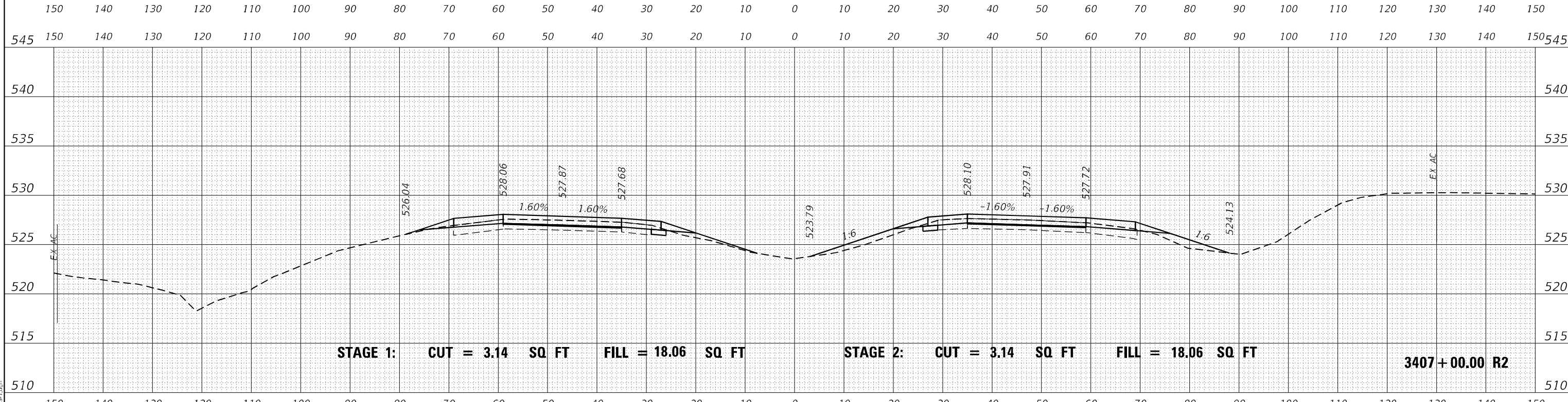
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	498
			CONTRACT NO. 78604	

(41-6,41-6-1,41-7)RS-2;BSMART 2023

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 64
CROSS SECTIONS**

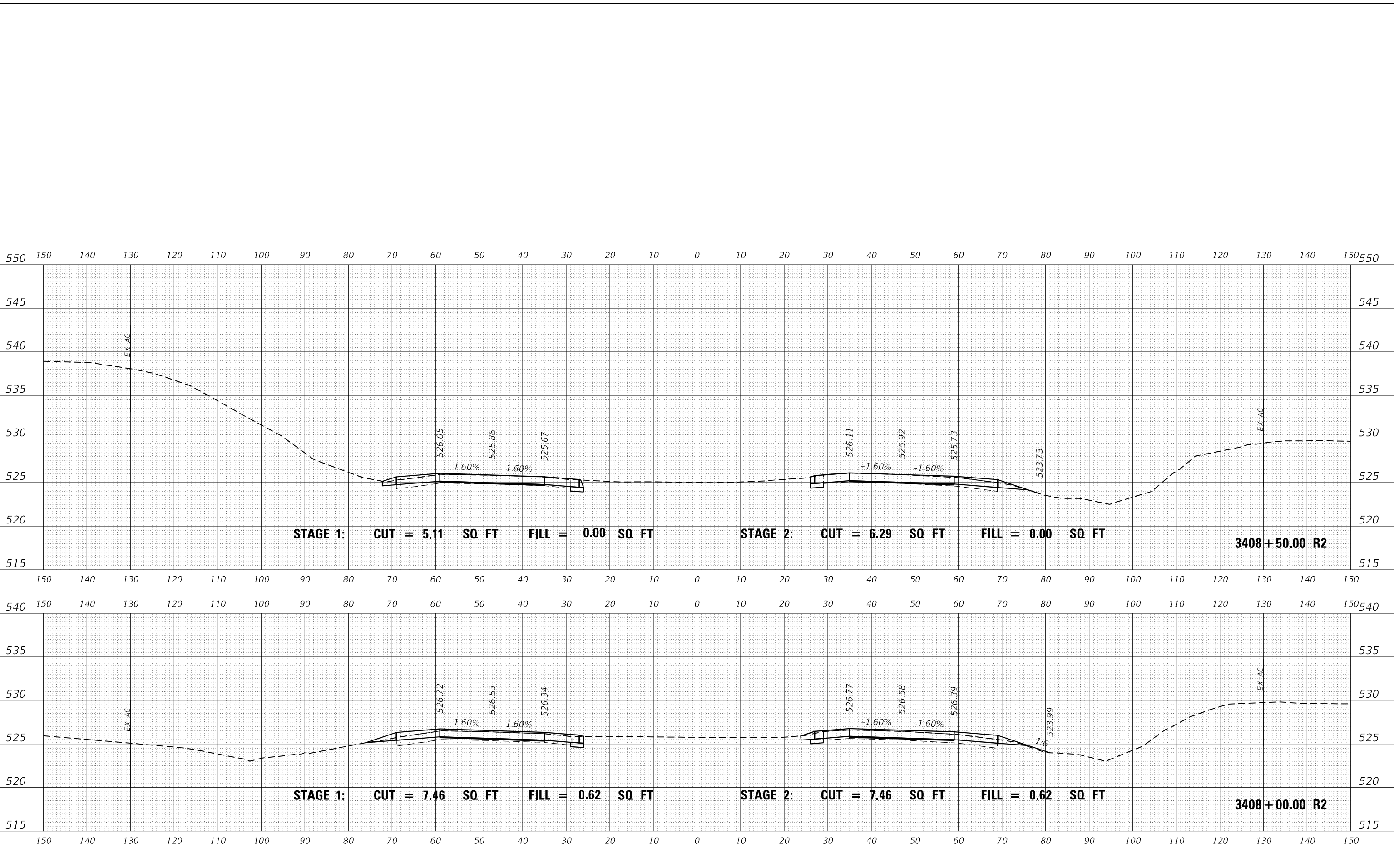
SCALE: 50 SHEET OF SHEETS STA. 3407+00.00 R2 TO STA. 3407+50.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	499
CONTRACT NO. 78604				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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ORIGINAL SURVEY NO.	SURVEYED	DATE
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USER NAME = dhawes	DESIGNED -	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 11/4/2022 - 9:31:18 AM	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE 64
CROSS SECTIONS**

SCALE: 50 SHEET OF SHEETS STA. 3408+00.00 R2 TO STA. 3408+50.00 R2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-64	*	JEFFERSON	1052	500
				CONTRACT NO. 78604
		ILLINOIS	FED. AID PROJECT	

(41-6,41-6-1,41-7)RS-2;BSMART 2023