

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

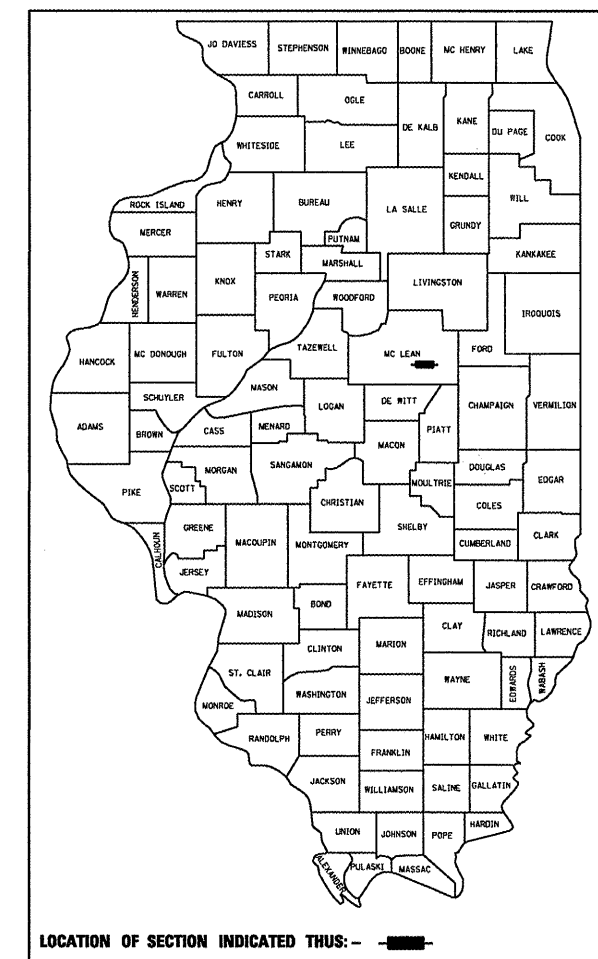
**PROPOSED
HIGHWAY PLANS**

FAU ROUTE 6406 (US ROUTE 150)
SECTION 1(BR-2)
MCLEAN COUNTY
C-95-038-06
BRIDGE REPLACEMENT
KICKAPOO CREEK
NW OF DOWNS

PROJECT ACM-ACBRM-6406(001)

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4

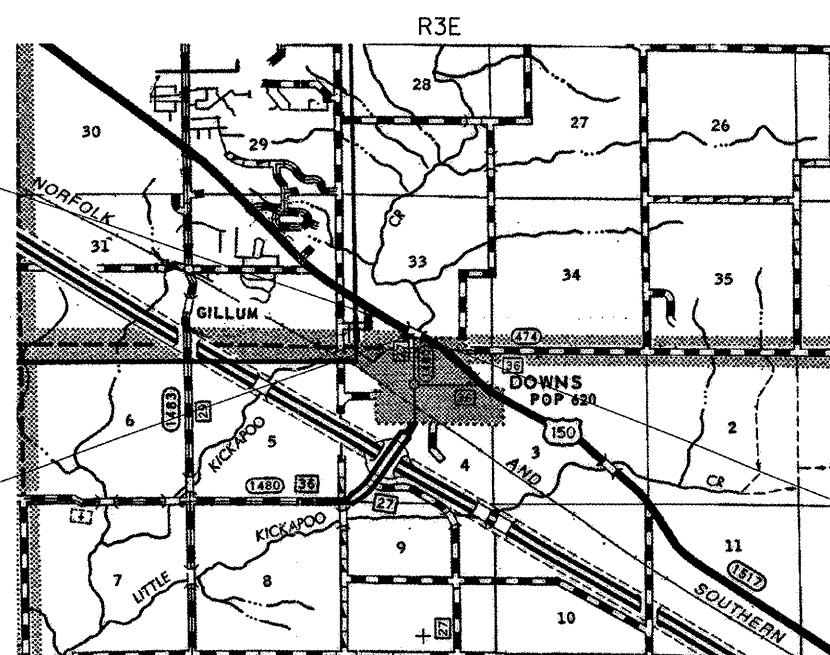
D-95-037-06



LOCATION OF SECTION INDICATED THIS: - [black box] -

MINOR ARTERIAL (URBAN)
ADT=6900 (2006)

SECTION 1(BR-2)
PROJECT BEGINS
Sta 400+91.00



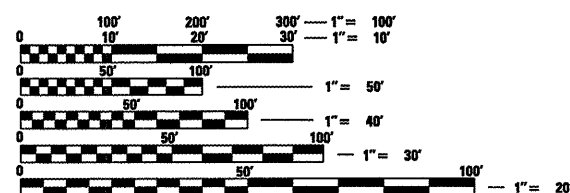
SECTION 1(BR-2)
PROJECT ENDS
Sta 412+94.00

PROPOSED STRUCTURE NO. 057-0246
@ Sta. 407+23.50 FAU 6406 (US 150)
STEEL I-BEAM ON INTEGRAL ABUT.
147'-6" BK TO BK. ABUTMENTS
3 SPANS; 1 @ 45'-0", 1 @ 60'-0", 1 @ 40'-0"
SKEW = 0°, DECK ROADWAY WIDTH = 40'-0"

LOCATION MAP



GROSS LENGTH OF PROJECT = 1203 FEET = 0.228 MILES



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 70517

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 12/12 20 07

Joseph E. O'Connell
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 3, 20 08
Eric E. Horn
ENGINEER OF DESIGN AND ENVIRONMENT

October 3, 20 08
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

BLANK, WESSELINK, COOK & ASSOCIATES
ENGINEERS - CONSULTANTS
DECATUR, ILLINOIS



Charles W. Guthrie, Jr.
CHARLES W. GUTHRIE, JR., P.E.
DATE August 29 20 07
EXPIRES NOVEMBER 30, 2007

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PROJECT ENGINEER: NANCY FASIG (217) 465-4181
CONSULTANT LIASON: JASON W. STULTS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

- G.N. 100
ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.
- G.N. 105.09A
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN DATUM OF 1988 (NAVD 88).
- G.N. 107.31
UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800) 892-0123.
- G.N. 202
GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA OF TEMPORARY EASEMENTS AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS DIRECTED BY THE ENGINEER.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- G.N. 281
THE RIPRAP GRADATION SHALL BE IN ACCORDANCE WITH THE GRADATION SPECIFIED IN THE PLANS OR, WITH APPROVAL OF THE ENGINEER, A RIPRAP GRADATION MEETING A D50 GREATER THAN OR EQUAL TO 0.80 FEET. D50 IS DEFINED AS THE MEAN ROCK SIZE AS DESCRIBED IN THE FHWA HYDRAULIC ENGINEERING CIRCULARS (HEC 11, HEC 14 AND HEC 15).

IF GRAVEL IS USED FOR THE BEDDING MATERIAL UNDER RIPRAP, THE GRAVEL SHALL BE CRUSHED AS ALLOWED UNDER ARTICLE 1005.01.
- G.N. 406
THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.
- G.N. 406.05B
ALL LEVELING BINDER OR BINDER SHALL BE GIVEN A FOG COAT OF PRIME BEFORE THE SURFACE COURSE IS PLACED WHEN DIRECTED BY THE ENGINEER.

THE FOG COAT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER GALLON FOR BITUMINOUS MATERIAL (PRIME COAT) AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

- G.N. 406H
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION(S):	MAINLINE PAVEMENT
MIXTURE USE(S):	SURFACE COURSE, TOP 1 1/2" OF SHOULDERS
AC/PG:	PG 64-22
RAP % (MAX)	15%
DESIGN AIR VOIDS:	4.0% @ NDES = 50
MIX COMP: (GRADATION)	IL 9.5
FRICTION AGGREGATE:	MIX "D"

LOCATION(S):	MAINLINE PAVEMENT
MIXTURE USE(S):	FLEXIBLE CONNECTOR, BOTTOM 6 1/2" OF SHOULDERS, BINDER
AC/PG:	PG 64-22
RAP % (MAX)	25%
DESIGN AIR VOIDS:	4.0% @ NDES = 50
MIX COMP: (GRADATION)	IL 19.0
FRICTION AGGREGATE:	N/A

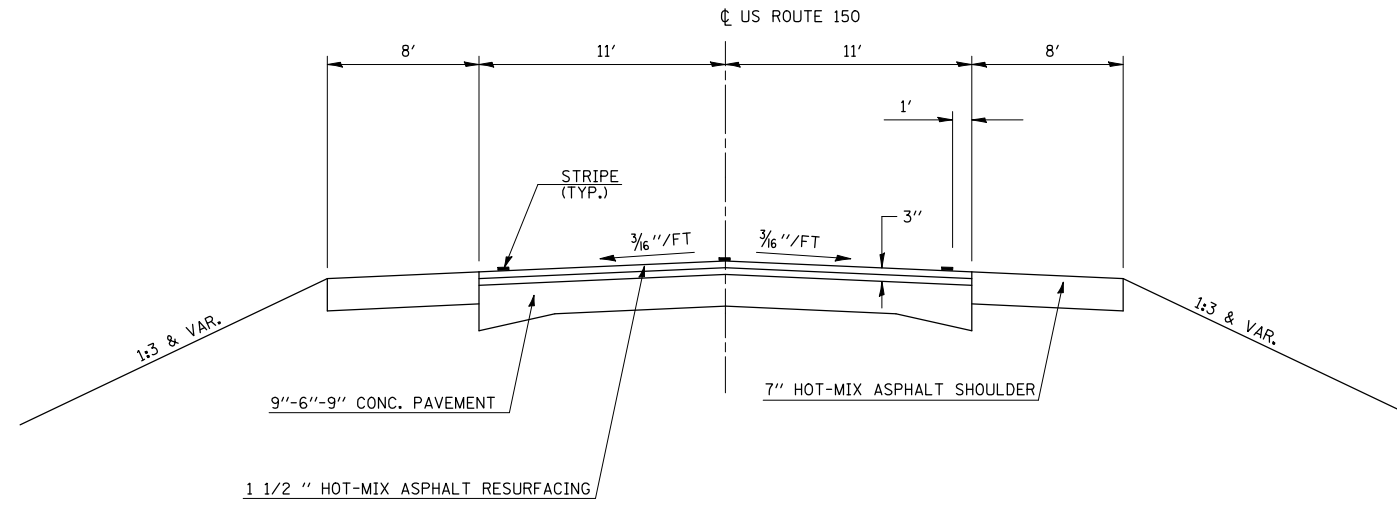
- G.N. 482
ALL MATERIAL PLACED AS HOT-MIX ASPHALT SHOULDERS SHALL BE COMPACTED TO 94.0 - 98.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY. THIS REQUIREMENT SHALL APPLY TO IL 9.5L GRADATION SHOULDER MIXES AND OTHER MIXES (BOTTOM LIFT OF SHOULDERS). THIS MAXIMUM DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE OF FOUR TESTS AS IN OTHER QC/QA TESTING. A NUCLEAR GAUGE DENSITY/CORE CORRELATION SHALL BE PERFORMED FOR THE IL 9.5L MIXES AND OTHER MIXES USING STANDARD CORRELATION PROCEDURES.

- G.N. 542.07
AT LOCATIONS WHERE END SECTIONS ARE SPECIFIED, CAST-IN-PLACE CONCRETE HEADWALLS WILL NOT BE ALLOWED.
- G.N. 550
BEFORE ORDERING STORM SEWERS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.
- G.N. 631
IF THE CONTRACTOR ELECTS TO USE THE ALTERNATE MOUNTING METHOD OF THRU DRILLING THE MOUNTING HOLES FOR THE TRAFFIC BARRIER TERMINALS, TYPE 6, THE HOLES SHALL BE DRILLED USING A CORE DRILL. A HAMMER DRILL WILL NOT BE ALLOWED.
- G.N. 667
THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS (PC'S, PT'S, AND PI'S). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR SETTING THESE MARKERS.
- G.N. 1004.01
COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.
- G.N. 20038
AN ALUMINUM TABLET OF THE TYPE SHOWN ON STANDARD 667101 SHALL BE PLACED ON THE PROPOSED STRUCTURE AS DIRECTED BY THE ENGINEER. THE BENCH MARK ELEVATION WILL BE ESTABLISHED AND MARKED BY THE DEPARTMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR PERMANENT BENCH MARKS.
- THERE ARE NO COMMITMENTS FOR THIS PROJECT.

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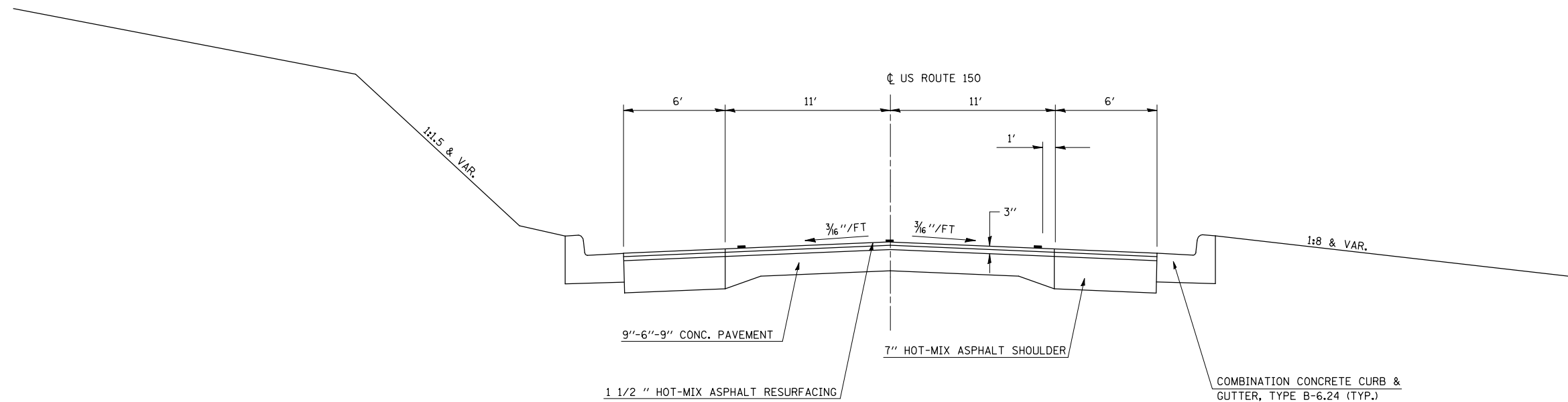
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NAME	DATE	
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL CROSS SECTION

F.A.U. 6406 (US RTE. 150)
STATION 400+91.00 TO STATION 406+72.25



EXISTING TYPICAL CROSS SECTION

F.A.U. 6406 (US RTE. 150)
STATION 408+03.75 TO STATION 412+94.00

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

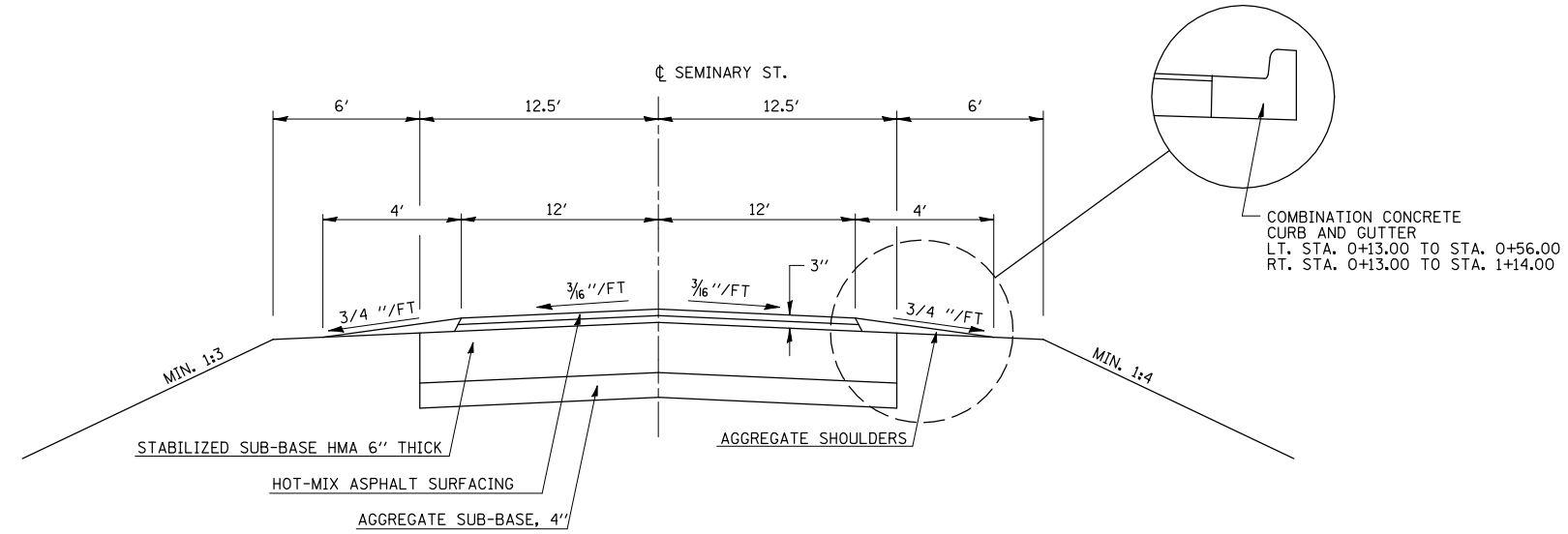
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DATE 4/07

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	7
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL CROSS SECTION

SEMINARY STREET
STATION 0+13.00 TO STATION 1+70.00

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NAME	DATE

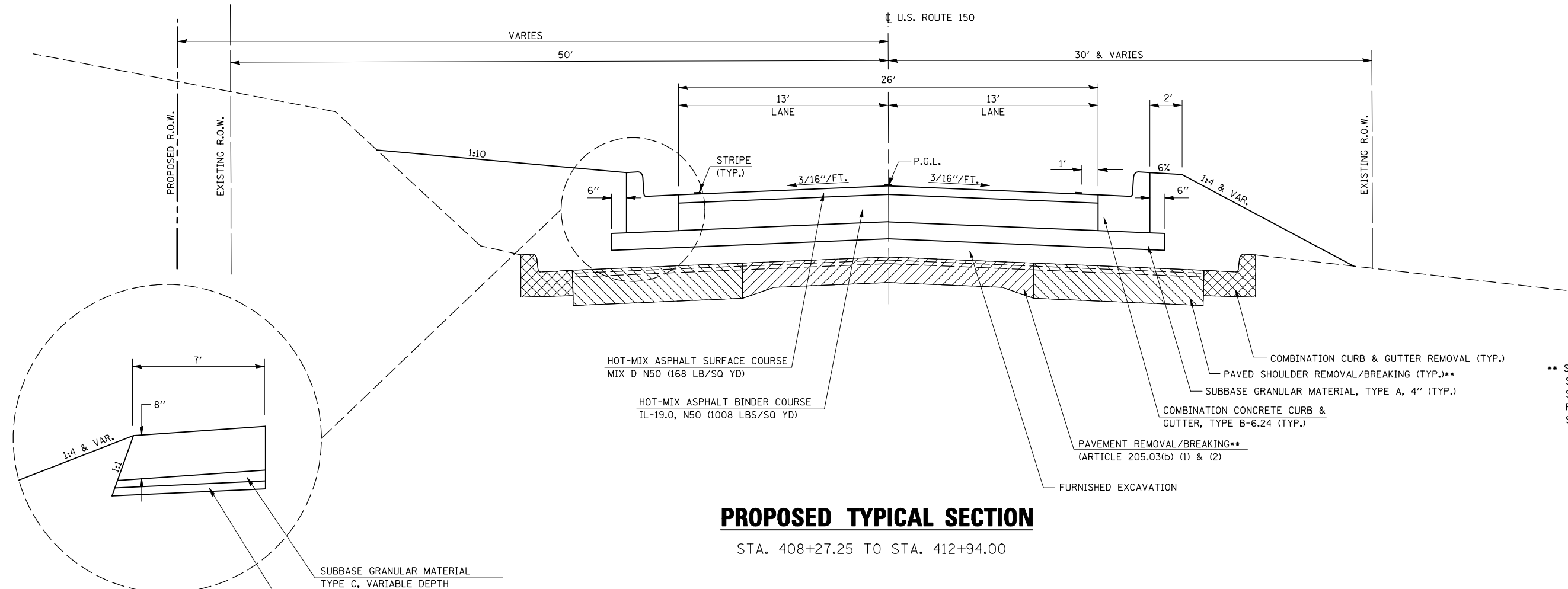
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HORIZ.
DATE 4/07

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	9
STA. 6406		TO STA. 6407		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL SECTION

STA. 408+27.25 TO STA. 412+94.00

•• SHOULDER REMOVAL
 STA. 412+00 TO STA. 412+59 RT
 STA. 412+00 TO STA. 412+84 LT
 PAVEMENT REMOVAL
 STA. 411+62 TO STA. 412+69

•HOT MIX ASPHALT SHOULDERS (896 LB/SQ YD)
 LT. STA 408+27.25 TO LT. STA 409+25.00

• SEE MIXTURE REQUIREMENTS TABLE
 FOR SHOULDER MIXES TO BE USED

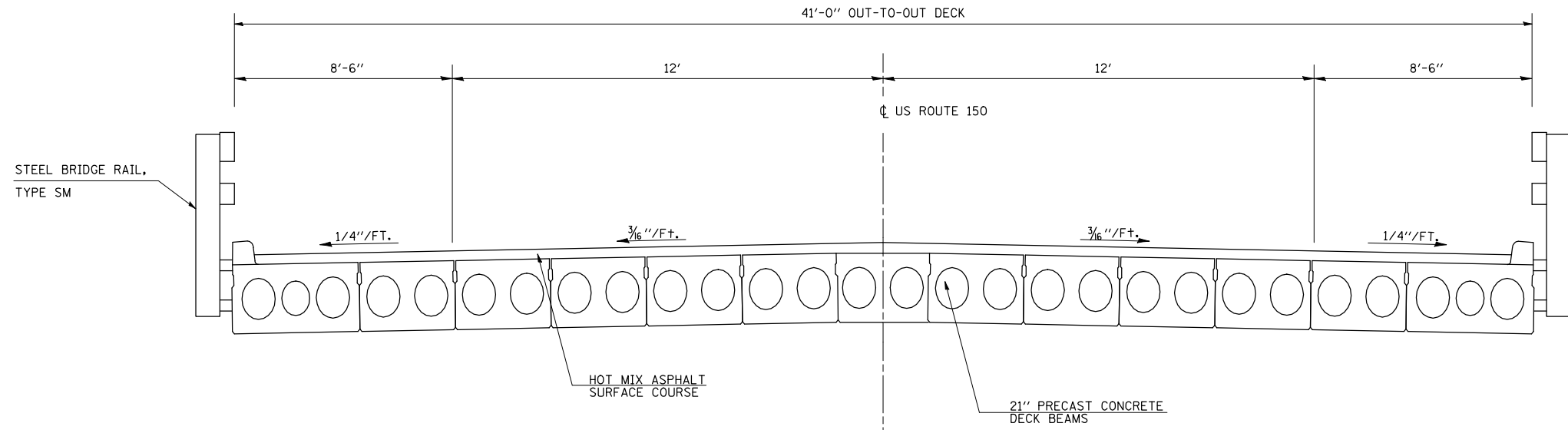
NOTE: ALL HOT-MIX ASPHALT SHALL
 BE PLACED UTILIZING A STRINGLINE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED TYPICAL SECTIONS
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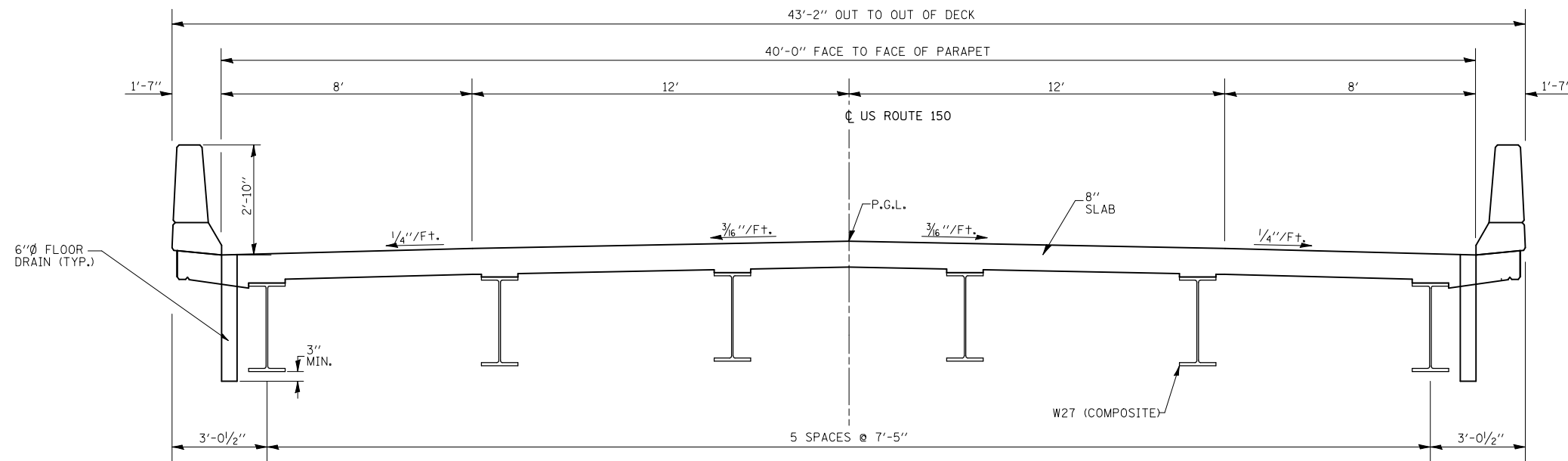
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING STRUCTURE CROSS SECTION
S.N. 057-0181

STATION 406+72.25 TO STATION 408+03.75



PROPOSED STRUCTURE CROSS SECTION
S.N. 057-0246

STATION 406+49.75 TO STATION 407+97.25

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

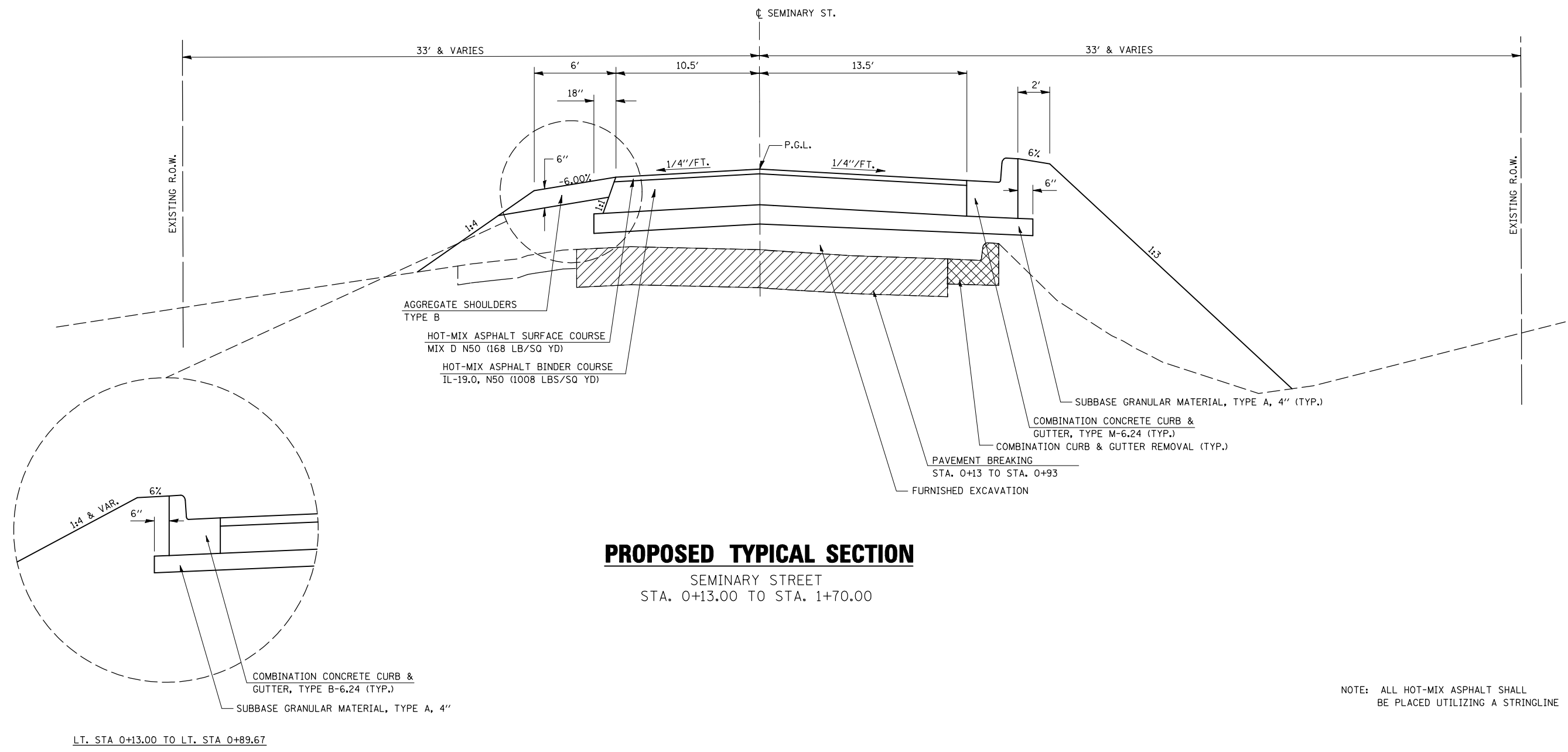
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL SECTION

SEMINARY STREET
STA. 0+13.00 TO STA. 1+70.00

NOTE: ALL HOT-MIX ASPHALT SHALL
BE PLACED UTILIZING A STRINGLINE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

SCALE: VERT.
HORIZ.
DATE 4/07

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTH EXCAVATION AND FURNISHED EXCAVATION

LOCATION	EARTH EXCAVATION (CU YD)	EARTH EXCAV. ADJUSTED FOR SHRINKAGE * (CU YD)	EMBANKMENT (FILL) (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
US 150 SEMINARY ST.	710	533	7,870	-7,337
	710	533	640	-640
			8,510	-7,980

* An earth-shrinkage factor of 0.25 is applied

SEEDING, FERTILIZERS AND MULCH

STATION TO	STATION	OFFSET	SEEDING CLASS 2 (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	MULCH, METHOD 2 (ACRE)	TEMPORARY EROSION CONTROL SEEDING (POUND)
400+91.00	412+94.00	LT	1.00	90	90	90	1.25	100.0
400+91.00	412+94.00	RT	0.75	67.5	67.5	67.5	0.75	75.0
0+17.00	1+70.00	RT	0.50	45.0	45.0	45.0	0.50	50.0
		TOTAL	2.25	203	203	203	2.25	230.0

EROSION CONTROL BLANKET

STATION TO	STATION	OFFSET	SQ YD
409+25.00	412+94.00	LT	615

TEMPORARY DITCH CHECKS

STATION	OFFSET	EACH
402+00.00	RT	1
402+50.00	LT	1
403+00.00	RT	1
404+00.00	LT	1
405+50.00	LT	1
407+00.00	LT	1
408+00.00	LT	1
408+10.00	RT	1
408+50.00	LT	1
409+50.00	LT	1
	TOTAL	10

PERIMETER EROSION BARRIER

STATION TO	STATION	OFFSET	FOOT
403+00.00	407+08.00	RT	410
407+08.00	407+08.00	LT&RT	116
409+65.00	410+05.00	RT	54
410+05.00	412+94.00	RT	298
0+75.00	1+00.00	LT	50
1+00.00	1+70.00	LT	70
0+55.00	1+55.00	RT	110
	TOTAL		1108

STONE RIPRAP, CLASS A4

STATION TO	STATION	OFFSET	SQ YD
407+86.00	409+04.50	LT	134
408+07.00	408+36.00	RT	32
	TOTAL		166

FILTER FABRIC

STATION TO	STATION	OFFSET	SQ YD
407+86.00	409+04.50	LT	134
408+07.00	408+36.00	RT	32
	TOTAL		166

SUB-BASE GRANULAR MATERIAL, TYPE A, 4"

STATION TO	STATION	OFFSET	SQ YD
401+05.00	406+16.75	LT&RT	2388
408+30.25	409+25.00	LT&RT	473
409+25.00	410+45.00	LT&RT	387
410+45.00	412+69.00	LT&RT	796
0+13.00	0+93.00	LT	350
0+13.00	0+93.00	RT	317
0+93.00	1+50.00	LT&RT	190
	TOTAL		4901

SUB-BASE GRANULAR MATERIAL, TYPE C

STATION TO	STATION	OFFSET	TON
401+05.00	406+19.75	LT	45
401+05.00	406+19.75	RT	45
408+27.25	409+25.00	LT	9
	TOTAL		99

BITUMINOUS MATERIALS (PRIME COAT)

STATION TO	STATION	OFFSET	GALLONS
400+91.00	406+19.75	LT&RT	141
408+27.25	412+94.00	LT&RT	135
0+13.00	1+70.00	LT&RT	78
401+05.00	406+19.75	LT&RT	343
408+27.25	412+69.00	LT&RT	319
0+13.00	0+93.00	LT&RT	143
0+93.00	1+50.00	LT&RT	39
	TOTAL		1198

HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT

STATION TO	STATION	OFFSET	SQ YD
400+91.00	401+05.00	LT&RT	59
412+69.00	412+94.00	LT&RT	72
1+50.00	1+70.00	LT&RT	53
	TOTAL		184

HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50

STATION TO	STATION	OFFSET	TON
401+05.00	406+19.75	LT&RT	714
408+27.25	412+69.00	LT&RT	662
0+13.00	0+93.00	LT&RT	292
0+93.00	1+50.00	LT&RT	81
	TOTAL		1749

HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50

STATION TO	STATION	OFFSET	TON
400+91.00	406+19.75	LT&RT	118
408+27.25	412+94.00	LT&RT	113
0+13.00	1+70.00	LT&RT	66
	TOTAL		297

BRIDGE APPROACH PAVEMENT

STATION TO	STATION	SQ YD
406+19.75	406+49.75	133
407+97.25	408+27.25	133
	TOTAL	266

PROTECTIVE COAT

STATION TO	STATION	OFFSET	SQ YD
406+19.75	406+49.75	LT&RT	141
407+97.25	408+27.25	LT&RT	141
	TOTAL		282

(INCLUDES ROADWAY ITEMS ONLY)

PAVEMENT REMOVAL

STATION TO	STATION	OFFSET	SQ YD
401+05.00	403+25.00	LT&RT	538
411+62.00	412+69.00	LT&RT	309
0+93.00	1+50.00	LT&RT	171
	TOTAL		1018

COMBINATION CURB & GUTTER REMOVAL

STATION TO	STATION	OFFSET	FOOT
412+58.00	412+94.00	LT	36
0+17.00	1+14.00	RT	119
0+23.00	0+59.00	LT	84
412+57.00	412+94.00	RT	37
	TOTAL		276

APPROACH SLAB REMOVAL

STATION TO	STATION	OFFSET	SQ YD
406+52.25	406+72.25	LT&RT	87
408+03.75	408+23.75	LT&RT	87
	TOTAL		174

PAVED SHOULDER REMOVAL

STATION TO	STATION	OFFSET	SQ YD
401+05.00	403+25.00	LT	196
401+05.00	403+25.00	RT	196
411+62.00	412+59.00	RT	43
411+62.00	412+84.00	LT	54
	TOTAL		489

PAVEMENT BREAKING

STATION TO	STATION	SQ YD
403+25.00	406+52.25	1382
408+23.75	411+62.00	1278
0+13.00	0+93.00	434
	TOTAL	3094

AGGREGATE SHOULDERS, TYPE B

STATION TO	STATION	OFFSET	TON
0+94.67	1+70.00	LT	15
1+55.00	1+70.00	RT	3
	TOTAL		18

HOT-MIX ASPHALT SHOULDERS

STATION TO	STATION	OFFSET	TON
400+91.00	406+19.75	LT	211
400+91.00	406+19.75	RT	211
408+27.25	409+25.00	LT	34
	TOTAL		456

CONCRETE COLLAR

STATION	OFFSET	EACH
408+60.18	RT	1
409+41.00	RT	1
	TOTAL	2

STORM SEWERS, CLASS A, TYPE 1, 12"

STATION TO	STATION	OFFSET	FOOT
1+00.00	1+00.00	RT	16

STORM SEWERS, CLASS A, TYPE 1, 18"

STATION TO	STATION	OFFSET	FOOT
409+53.60	409+64.36	RT	4
409+53.60	409+63.45	RT	13
	TOTAL		17

STORM SEWERS, CLASS A, TYPE 1, 42"

STATION TO	STATION	OFFSET	FOOT
408+37.40	408+60.18	RT	25
409+41.00	409+53.60	RT	13
	TOTAL		38

CLASS SI CONCRETE (OUTLET)

STATION TO	STATION	OFFSET	CU YD
0+89.76	0+94.76	LT	0.51
0+50.00	0+55.00	RT	0.51
409+00.00	409+49.11	LT	4.36
	TOTAL		6

COMBINATION CONCRETE CURB & GUTTER TYPE B-6.24

STATION TO	STATION	OFFSET	FOOT
409+47.00	412+94.00	LT	347
0+17.00	0+89.67	LT	170
410+45.00	412+94.00	RT	249
	TOTAL		766

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES SHEET 1 OF 2

SCALE: VERT. / HORIZ. DATE

DRAWN BY / CHECKED BY

PLT DATE = 8/20/2008
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 USER NAME = stults,j

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

COMBINATION CONCRETE CURB & GUTTER TYPE M-6.24

STATION TO	STATION	OFFSET	FOOT
408+33.25	1+50.00	RT	161

PERMANENT SURVEY MARKERS, TYPE II

STATION	OFFSET	EACH
404+40.54	-	1

PERMANENT BENCH MARKS

STATION	OFFSET	EACH
407+23.50	*	1

*AS DIRECTED BY THE ENGINEER

STEEL PLATE BEAM GUARD RAIL, TYPE A

STATION TO	STATION	OFFSET	FOOT
403+81.50	406+06.50	RT	225.0
405+69.00	406+06.50	LT	37.5
TOTAL			262.5

THERMOPLASTIC PAVEMENT MARKING - LINE 4"

STATION TO	STATION	FOOT
400+91.00	412+94.00	3609
400+91.00	408+16.10	725
0+08.77	1+70.00	200
0+13.00	1+70.00	293
410+44.64	412+94.00	249
TOTAL		5076

REMOVE EXISTING FLARED END SECTION

STATION	OFFSET	EACH
408+60.00	RT	1
409+41.00	RT	1
TOTAL		2

STEEL PLATE BEAM GUARD RAIL (SHORT RADIUS)

STATION TO	STATION	OFFSET	FOOT
408+40.50	1+00.97	RT	112.5

THERMOPLASTIC PAVEMENT MARKING - LINE 24"

STATION	FOOT
0+36.00	30

TRAFFIC BARRIER TERMINAL, TYPE 6

STATION TO	STATION	OFFSET	EACH
406+06.50	406+49.75	LT	1
406+06.50	406+49.75	RT	1
407+97.28	408+40.50	LT	1
TOTAL			3

GUARDRAIL MARKERS & BARRIER WALL MARKERS

BEGIN STA.	STATION TO	OFFSET	GUARDRAIL MARKERS	BARRIER WALL MARKERS
405+19.00	405+19.00	LT		
	405+70.50	LT	1	
	406+50.50	LT		1
	407+30.50	LT		1
	408+10.50	LT	1	
END STA.	408+90.50	LT		
BEGIN STA.	403+31.50	RT		
	404+11.50	RT	1	
	404+91.50	RT	1	
	405+71.50	RT	1	
	406+51.50	RT		1
	407+31.50	RT		1
	408+11.50	RT	1	
	0+56.51	RT	1	
	1+35.03	RT	1	
END STA.	1+50.00	RT		
TOTAL			8	4

TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

STATION TO	STATION	OFFSET	EACH
403+31.50	403+81.50	RT	1
405+19.00	405+69.00	LT	1
408+40.50	408+90.50	LT	1
1+00.97	1+50.00	RT	1
TOTAL			4

TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)

STATION TO	STATION	OFFSET	EACH
407+97.28	408+40.50	RT	1
TOTAL			1

TERMINAL MARKER - DIRECT APPLIED

STATION	OFFSET	EACH
405+19.00	LT	1
403+31.50	RT	1
408+90.50	LT	1
1+50.00	RT	1
TOTAL		4

GUARDRAIL REMOVAL

STATION TO	STATION	OFFSET	FOOT
405+72.00	406+73.00	LT	101
405+72.00	406+74.00	RT	102
408+03.00	408+94.00	LT	91
408+56.00	408+94.00	LT	38
408+03.00	408+67.00	RT	77
TOTAL			409

PAVEMENT GROOVING

STATION TO	STATION	FOOT
406+19.75	406+49.75	125
407+97.25	408+27.25	125
TOTAL		250

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

STATION	OFFSET	EACH
408+50.00	70'LT	1
409+00.00	50'LT	1
TOTAL		2

REVISIONS	
NAME	DATE

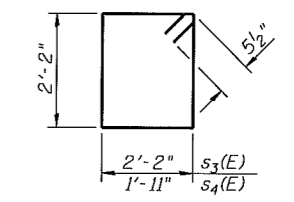
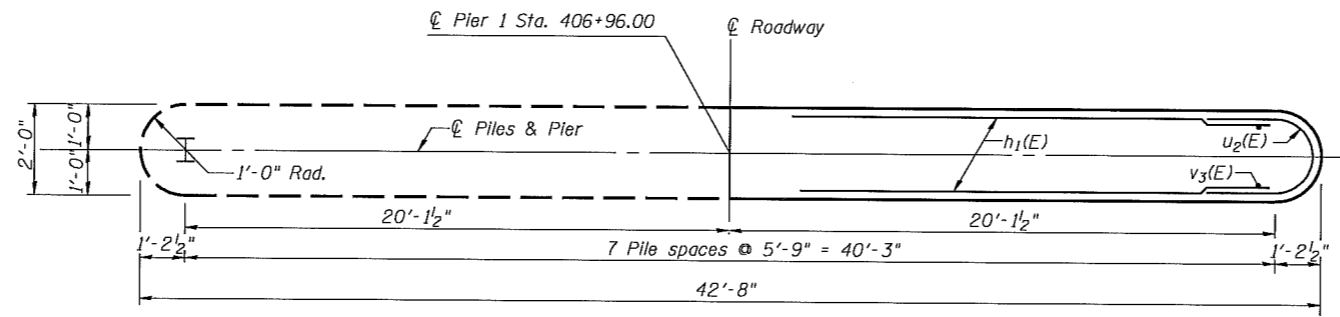
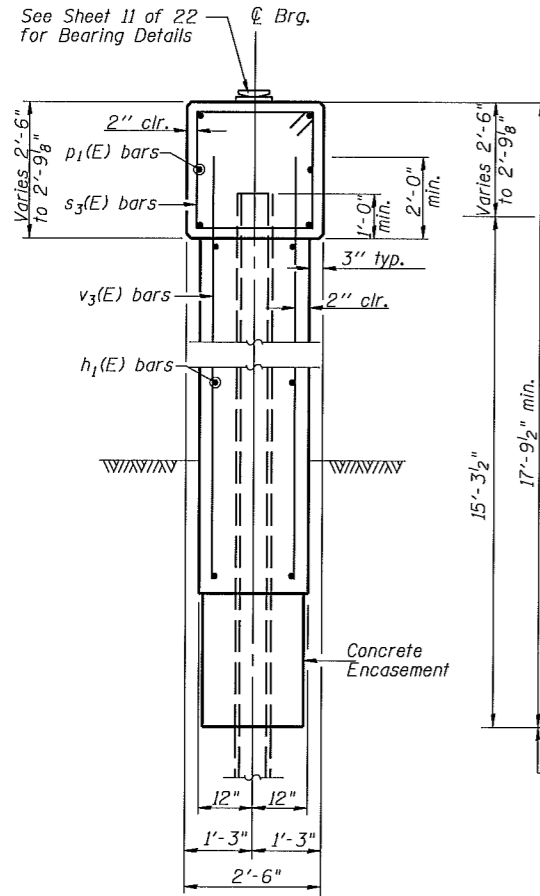
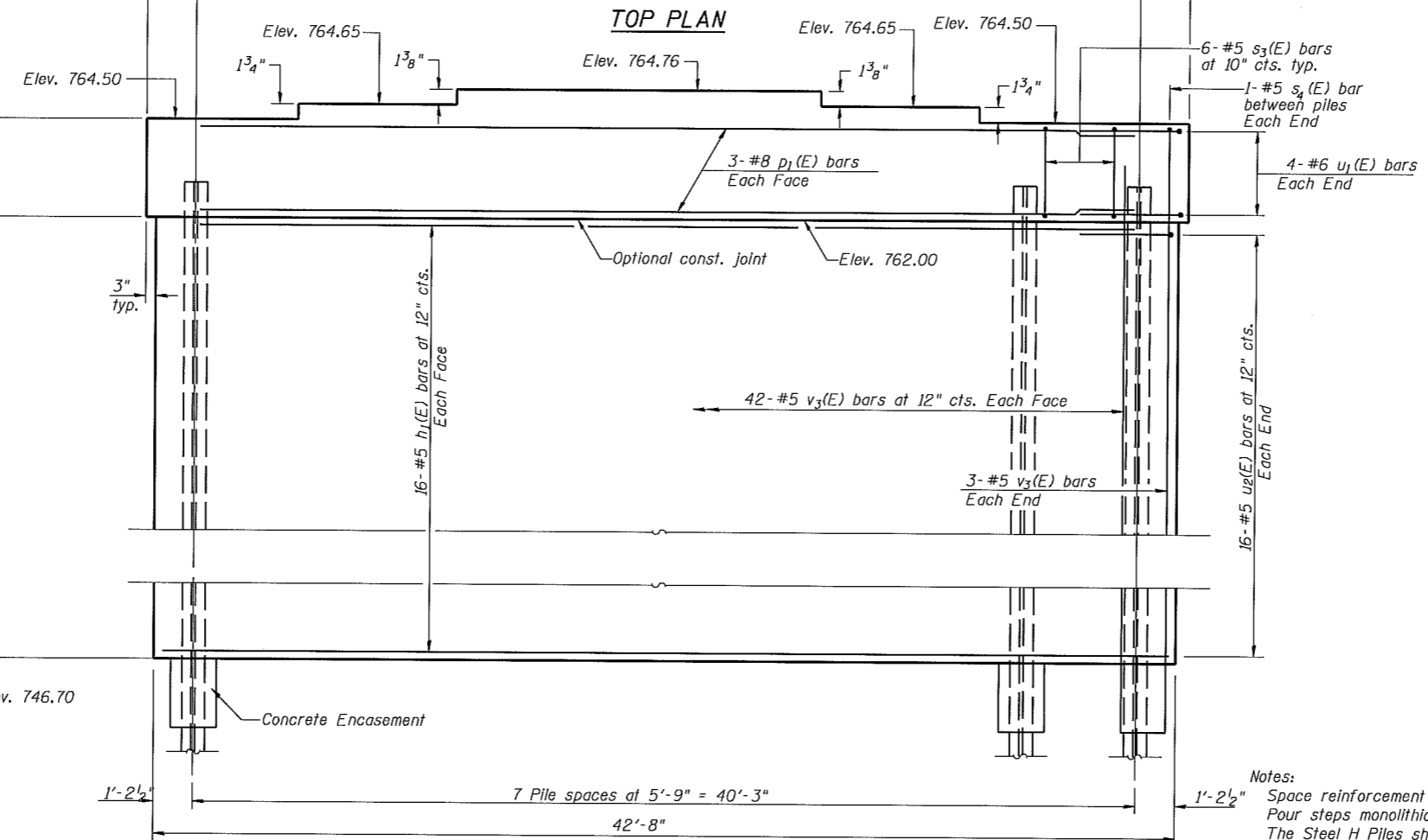
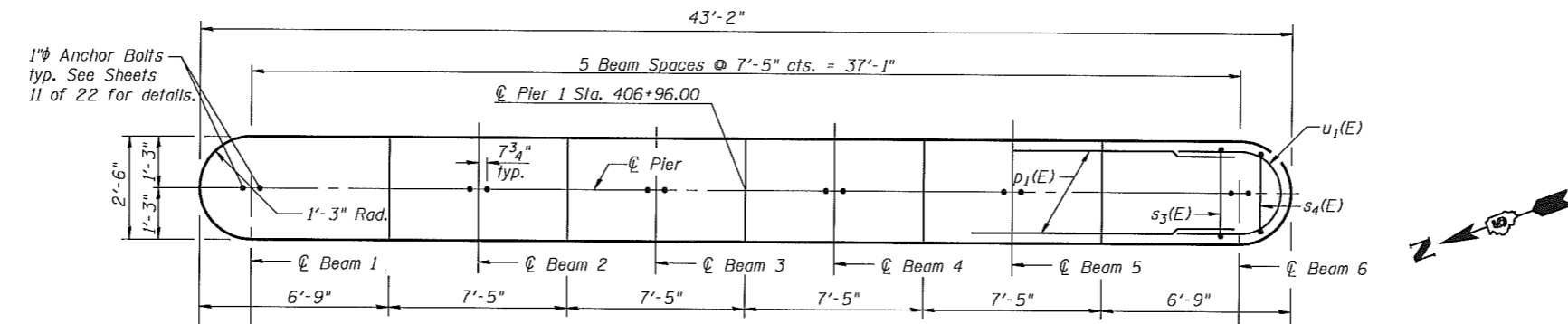
ILLINOIS DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES
SHEET 2 OF 2**

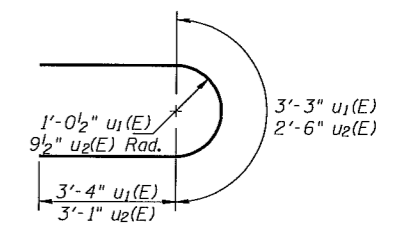
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DATE

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USER NAME = stults,j



BAR s₃(E) & s₄(E)



BARS u₁(E) & u₂(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁ (E)	32	#5	40'-8"	—
p ₁ (E)	6	#8	40'-8"	—
s ₃ (E)	42	#5	9'-7"	□
s ₄ (E)	2	#5	9'-1"	□
u ₁ (E)	8	#6	9'-11"	U
u ₂ (E)	32	#5	8'-8"	U
v ₃ (E)	90	#5	17'-2"	—
Structure Excavation			Cu. Yd.	81.9
Concrete Structures			Cu. Yd.	58.3
Reinforcement Bars, Epoxy Coated			Pound	4470
Furnishing Steel Piles, 12x53			Foot	483
Driving Piles			Foot	483
Test Pile, HP 12x53			Each	1
Concrete Encasement			Cu. Yd.	2.8
Underwater Structure Excavation Protection, Location 2			Each	1

Notes:

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

The Steel H Piles shall be according to AASHTO M270 Grade 50.

The Test Pile shall be driven to 110 percent of the nominal required bearing indicated in the Pile Data information.

For details of piles and concrete encasement see sheet 17 of 22.

If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

PILE DATA

Type: Steel HP 12x53
 Nominal Required Bearing: 419 kips
 Allowable Resistance Available: 140 kips
 Est. Length: 69 ft.
 No. Production Piles: 7
 No. Test Piles: 1

PIER 1
 US. ROUTE 150
 OVER KICKAPOO CREEK
 FAU ROUTE 6406 SECTION 1(KBR-2)
 MCLEAN COUNTY
 STATION 407+23.50
 STRUCTURE NO. 057-0246

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	17
STA. 410+50		TO STA. 416+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

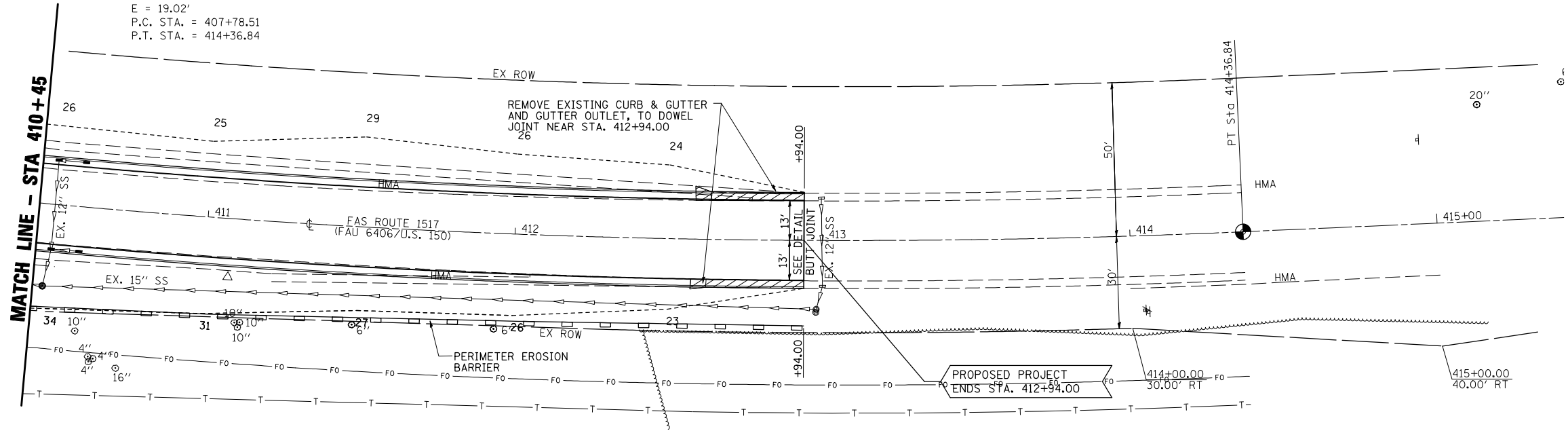
EXIST. CURVE C4
 PI STA. = 411+09.13
 $\Delta = 13^\circ 10' 07''$ (LT)
 $D = 2^\circ 00' 01''$
 $R = 2,864.33'$
 $T = 330.62'$
 $L = 658.33'$
 $E = 19.02'$
 P.C. STA. = 407+78.51
 P.T. STA. = 414+36.84

STA. 410+50.00, 15.00' LT
 M.H. TO BE RECONSTRUCTED
 SPECIAL FRAME & GRATE
 T/C ELEV. = 773.21
 INV. ELEV. = 766.53

STA. 410+59.00, 15.00' LT
 INLET TY A TO BE RECONSTRUCTED
 SPECIAL FRAME & GRATE
 T/C ELEV. = 773.49
 INV. ELEV. = 766.65

SEC. 33, T23N, R3E, 3RD PM

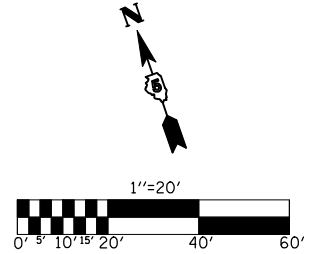
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NOTED	PLOTTED		
NO. OF WAY CHECKED	NO. OF WAY CHECKED		
CADD FILE NAME	CADD FILE NAME		



STA. 410+50.00, 23.00' RT
 M.H. TO BE RECONSTRUCTED
 TYPE 1 FRAME, CL LID
 RIM ELEV. = 771.41

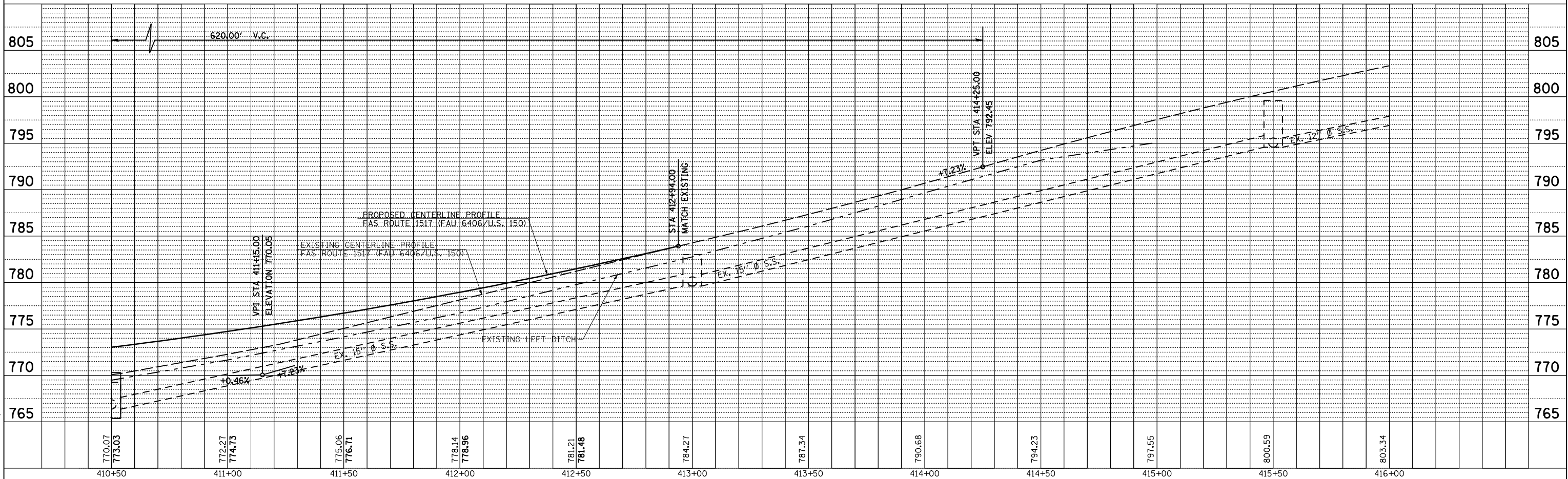
STA. 410+50.00, 15.00' RT
 M.H. TO BE RECONSTRUCTED
 SPECIAL FRAME & GRATE
 T/C ELEV. = 773.21
 INV. ELEV. = 766.40

STA. 410+59.00, 15.00' RT
 INLET TY A TO BE RECONSTRUCTED
 SPECIAL FRAME & GRATE
 T/C ELEV. = 773.49
 INV. ELEV. = 766.52

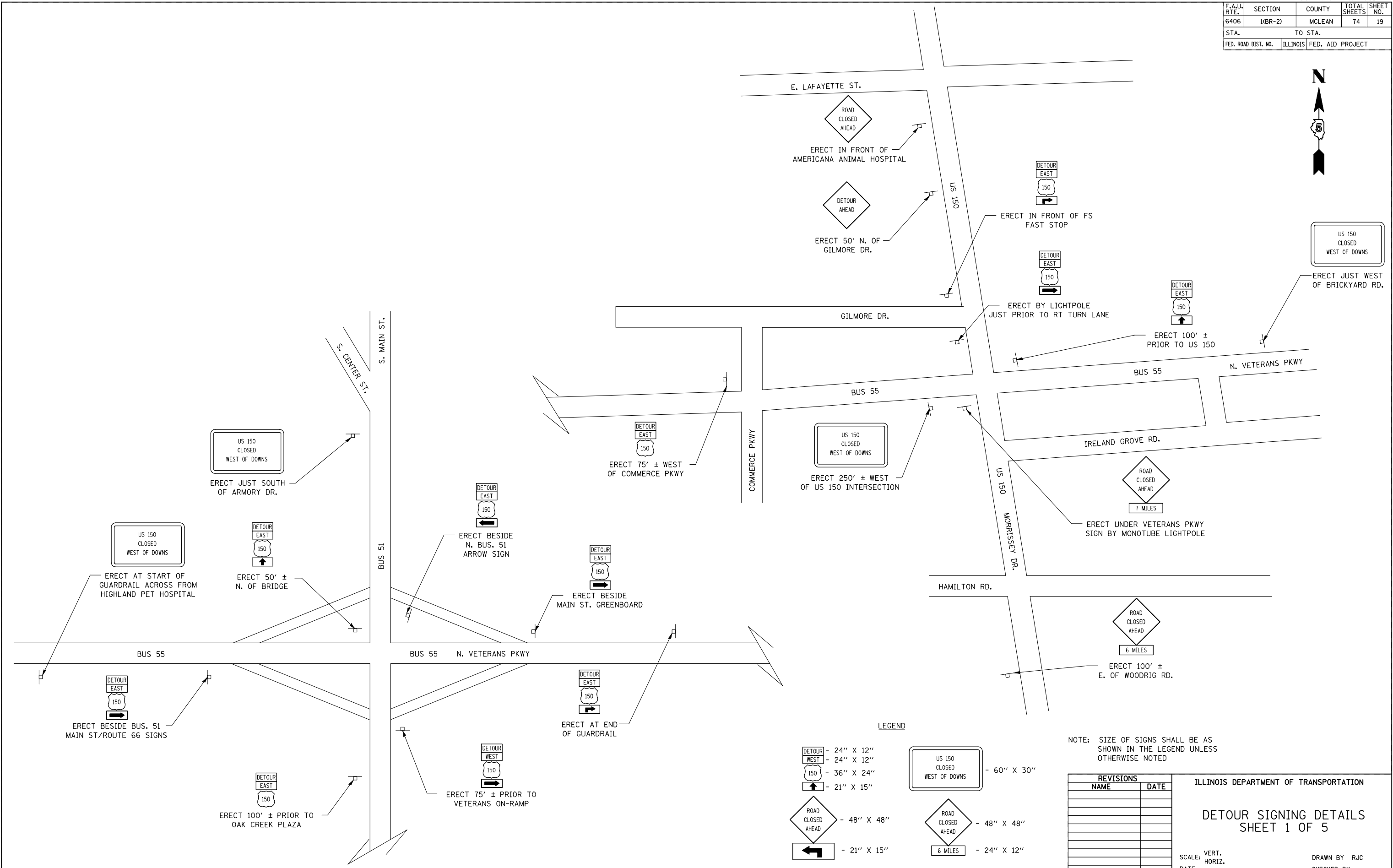


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NOTED	PLOTTED		
NO. OF WAY CHECKED	NO. OF WAY CHECKED		
STRUCTURE NOTATIONS CHECKED	STRUCTURE NOTATIONS CHECKED		

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 USER NAME = stults,j



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	19
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- 24" X 12"	- 60" X 30"
- 24" X 12"	- 48" X 48"
- 36" X 24"	- 24" X 12"
- 21" X 15"	- 24" X 12"
- 48" X 48"	
- 21" X 15"	

NOTE: SIZE OF SIGNS SHALL BE AS SHOWN IN THE LEGEND UNLESS OTHERWISE NOTED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

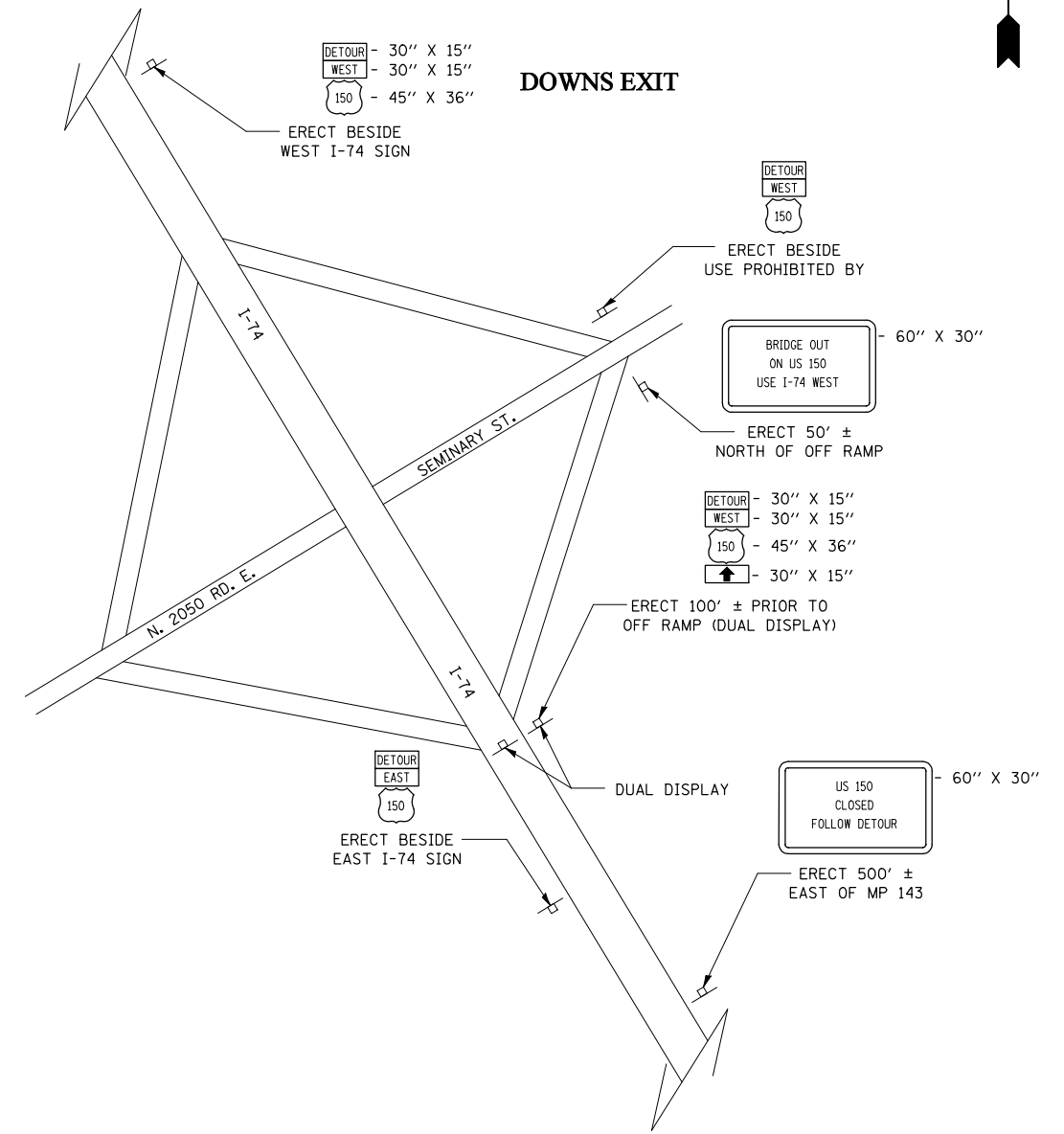
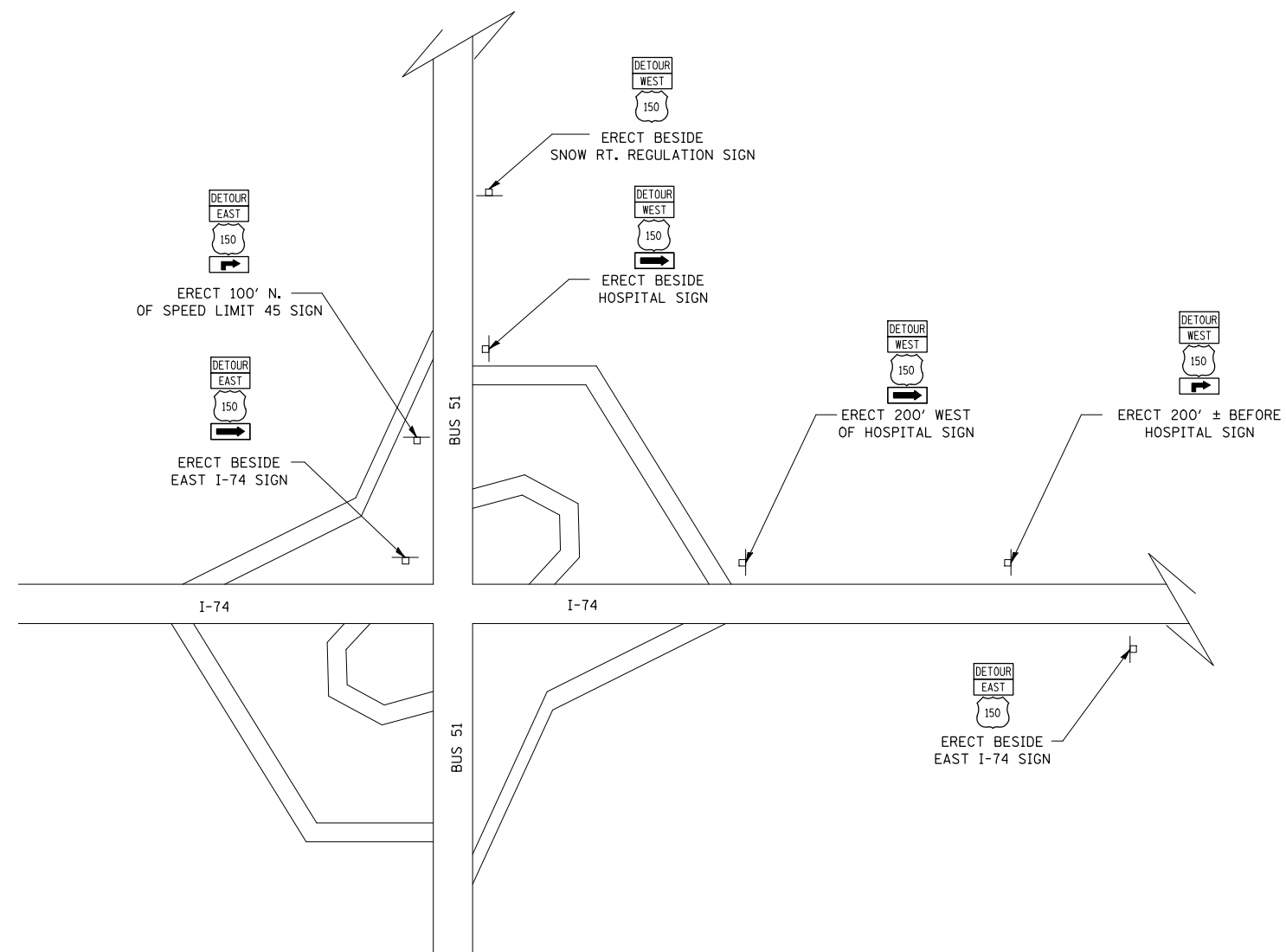
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SHEET 1 OF 5

SCALE: VERT. / HORIZ.
DATE

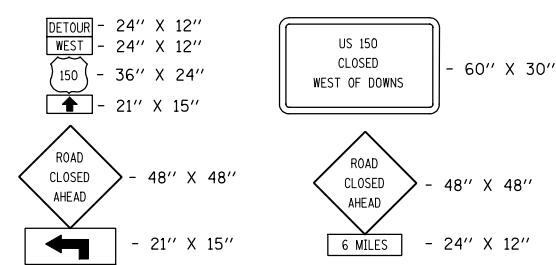
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 USER NAME = stults,j

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	20
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND



NOTE: SIZE OF SIGNS SHALL BE AS SHOWN IN THE LEGEND UNLESS OTHERWISE NOTED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETOUR SIGNING DETAILS
 SHEET 2 OF 5
 SCALE: VERT. / HORIZ.
 DATE: / /
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 CHECKED BY: /

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	21
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BRIDGE OUT
7 MILES AHEAD
LOCAL TRAFFIC ONLY

ERECT 75' ± W.
OF HEMLOCK ST.

US 150

W. WASHINGTON ST.

VILLAGE OF LEROY

N. HEMLOCK ST.

N. WALNUT ST.

S. CHESTNUT ST.



ERECT 50' ± W.
OF CHESTNUT ST.

W. CEDAR ST.

US 150

E. CEDAR ST.

US 150



ERECT BESIDE
WEST I-74 SIGN

LEROY EXIT

- DETOUR - 30" X 15"
- WEST - 30" X 15"
- 150 - 45" X 36"
- ↑ - 30" X 15"

ERECT 100' ±
EAST OF OFF RAMP



ERECT BESIDE
EAST I-74 SIGN

US 150
CLOSED
WEST OF DOWNS

ERECT BESIDE
MP 150

LEGEND

- DETOUR - 24" X 12"
- WEST - 24" X 12"
- 150 - 36" X 24"
- ↑ - 21" X 15"
- ROAD CLOSED AHEAD - 48" X 48"
- ROAD CLOSED AHEAD - 48" X 48"
- 6 MILES - 24" X 12"
- US 150 CLOSED WEST OF DOWNS - 60" X 30"

NOTE: SIZE OF SIGNS SHALL BE AS SHOWN IN THE LEGEND UNLESS OTHERWISE NOTED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

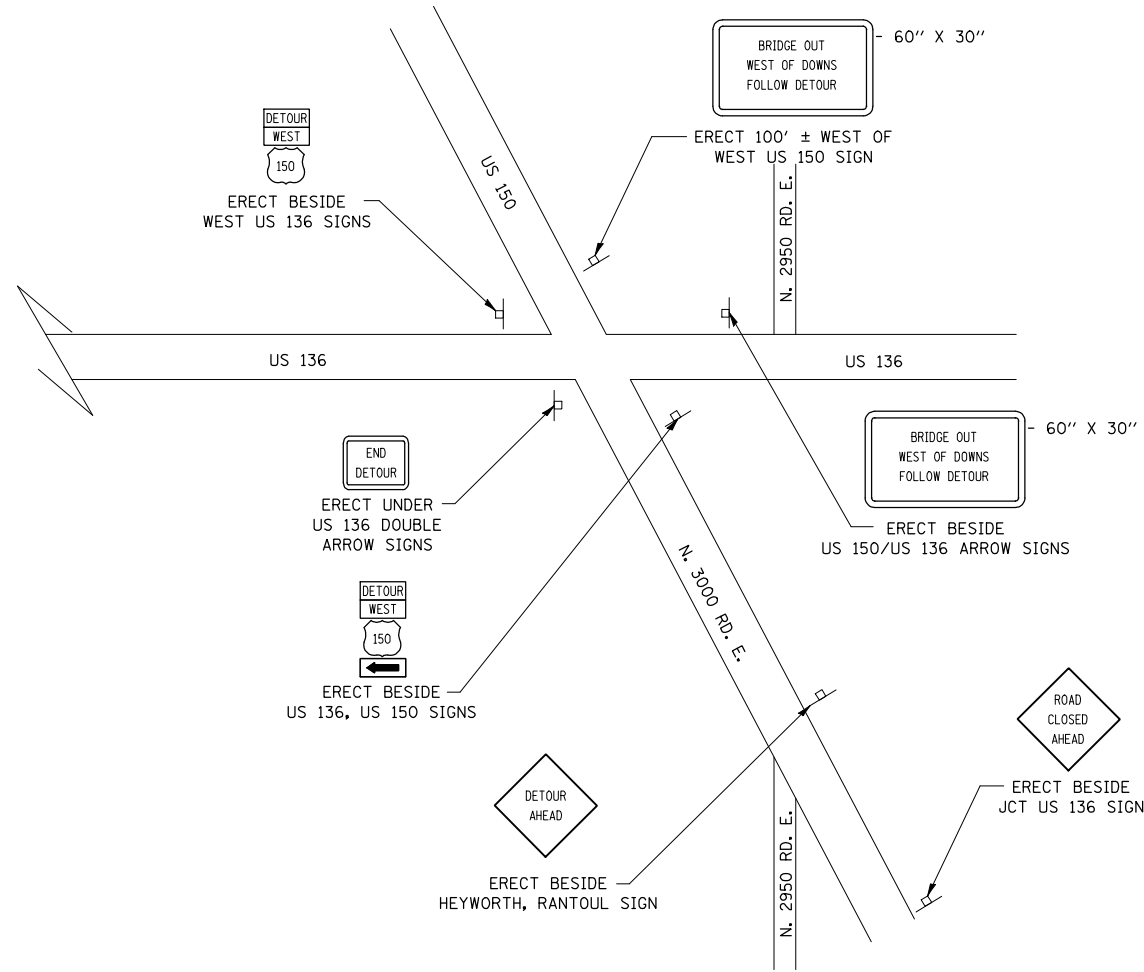
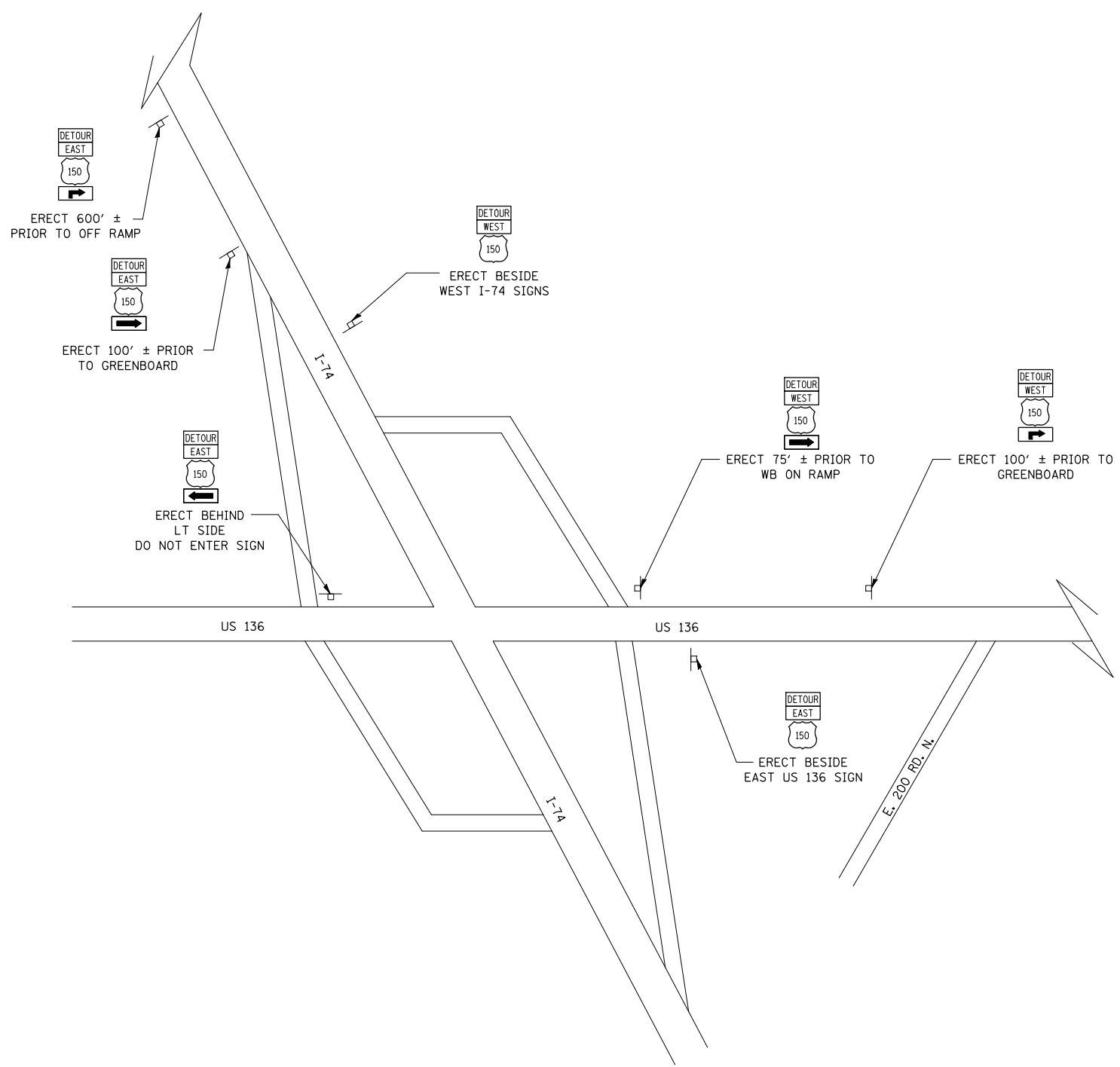
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SHEET 3 OF 5

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DATE

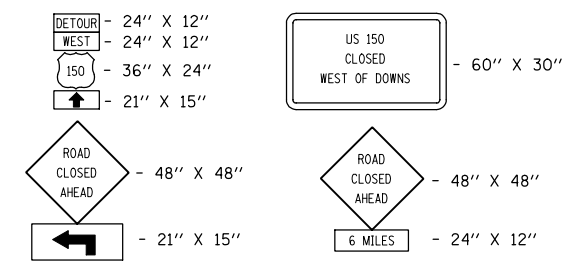
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USER NAME = stults,j

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	22
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND



NOTE: SIZE OF SIGNS SHALL BE AS SHOWN IN THE LEGEND UNLESS OTHERWISE NOTED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
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 SHEET 4 OF 5
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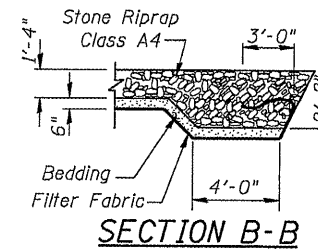
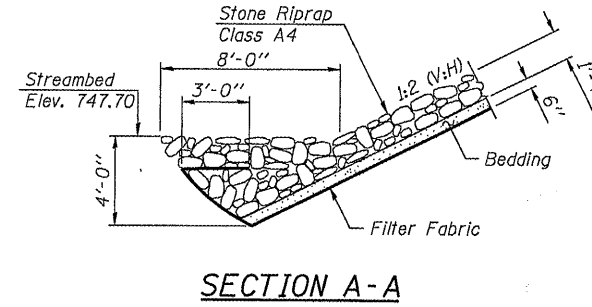
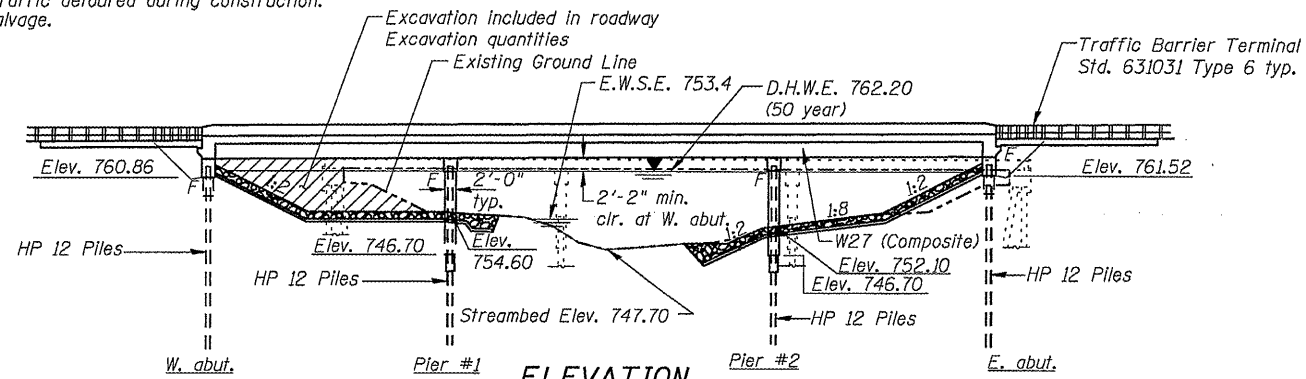
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 USER NAME = stults,j

Benchmark: Chisled "□" on S.W. Wingwall on S.N. 057-0181 Elev. 764.42

Existing structure: S.N. #057-0181 was built in 1974 as FA-39 Section 1-BR. The structure is a no skew three span deck beam bridge which measures 41'-0" Out to Out and 131'-6" Bk. to Bk. Abutments. The substructure consists of open abutments and solid shaft piers, all founded on concrete piles. Road to be closed and traffic detoured during construction. No Salvage.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 6406	(BR-2)	MCLEAN	74	25
SHEET NO. 1 22 SHEETS				

Contract #70517



DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44

Allow 50#/sq. ft. for Future Wearing Surface.

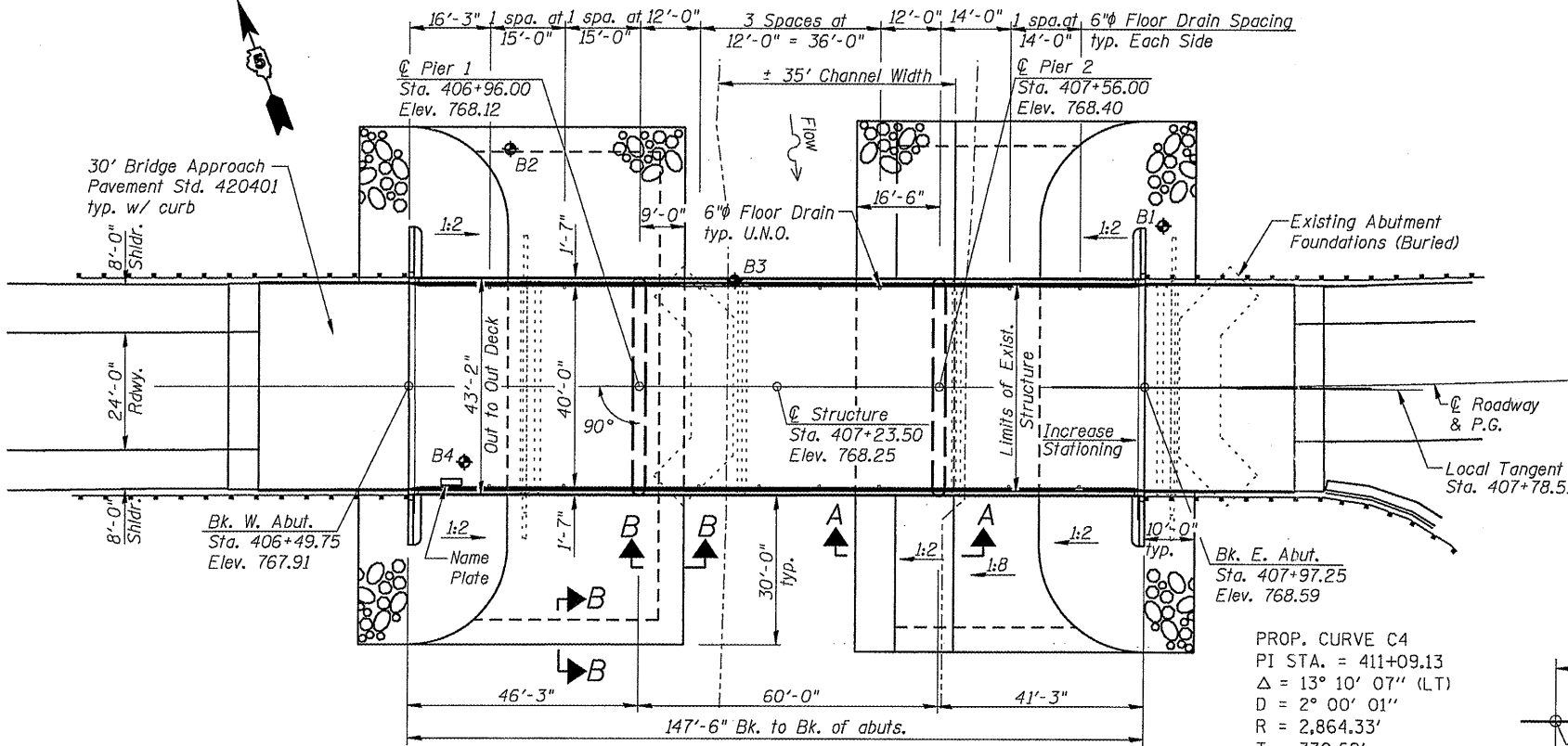
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)
 $f_y = 50,000$ (M-270, Grade 50W Structural Steel)

SEISMIC DATA

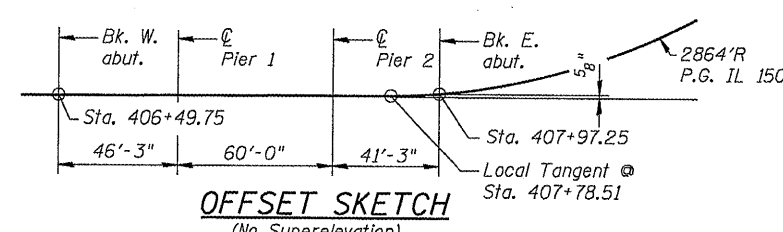
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.044g
Site Coefficient (S) = 1.0



STATION 407+23.50
BUILT 20__ BY
STATE OF ILLINOIS
F.A.U. RT. 6406 SEC. (BR-2)
LOADING HS20
STR. NO. 057-0246

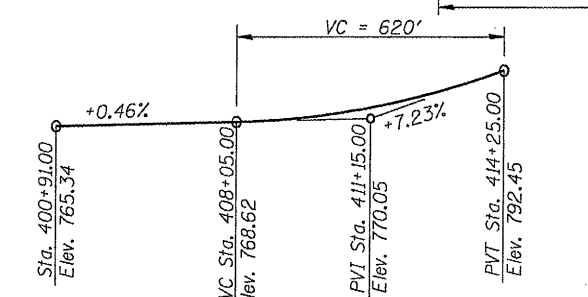
NAME PLATE
See Std. 515001

PROP. CURVE C4
PI STA. = 411+09.13
 $\Delta = 13^\circ 10' 07''$ (LT)
 $D = 2^\circ 00' 01''$
 $R = 2,864.33'$
 $T = 330.62'$
 $L = 658.33'$
 $E = 19.02'$
P.C. STA = 407+78.51
P.T. STA = 414+36.84



INDEX OF SHEETS

- 1 General Plan
- 2 General Notes and Bill of Material
- 3-4 Top of Slab Elevations
- 5 Top of West Approach Slab Elevations
- 6 Top of East Approach Slab Elevations
- 7 Superstructure
- 8 Superstructure Details
- 9 Abutment Diaphragm Details
- 10 Framing Plan
- 11 Structural Steel Details
- 12-13 Abutments
- 14-15 Piers
- 16 Bar Splicer Assembly Details
- 17 H-Pile & Encasement Details
- 18 Cantilever Forming Brackets
- 19-22 Soil Boring Logs

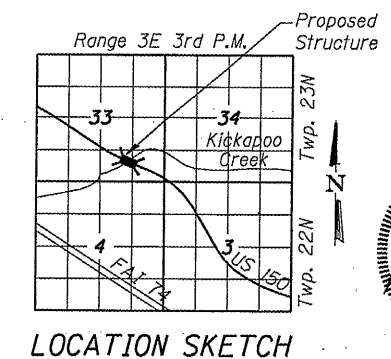


WATERWAY INFORMATION

Drainage Area = 45.2 sq.mi. Exist. Low Grade Elev. = 764.5 @ Sta. 407+00.00
Prop. Low Grade Elev. = 765.4 @ Sta. 400+91.00

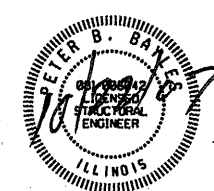
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E. Ft.		Head-Ft.		Headwater Elev. - Ft.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	3651	835	923	760.6	0.1	0.0	760.7	760.6	
Base	100	6837	1009	1197	762.2	0.6	0.1	762.8	762.3	
Overtopping	-	-	-	-	762.7	0.7	0.3	763.4	763.0	
Max. Calc.	500	9229	1009	1305	763.5	1.5	0.6	765.0	764.1	

10yr Velocity thru existing bridge = 4.5fps, 10yr velocity thru proposed bridge = 4.0fps



APPROVED
For Structural Adequacy Only

Ralph E. Anderson
Engineer of Bridges & Structures

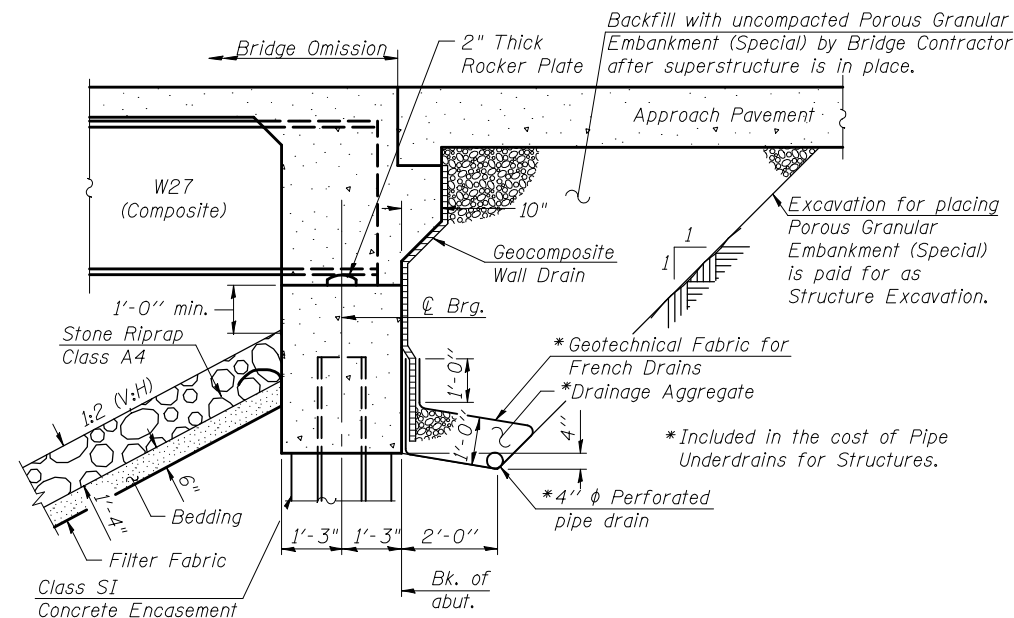


Peter B. Bayles, P.E., S.E.
Structural Engineer License No. 081-006042
Expiration Date: 11/30/2008

GENERAL PLAN
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION (BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246

Contract #70517

GENERAL NOTES



SECTION THRU INTEGRAL ABUTMENT

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).

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts $\frac{7}{8}$ in. ϕ , holes $\frac{15}{16}$ in. ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 114,450 lbs.

All structural steel shall be AASHTO M270 Grade 50W.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ " (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3". Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

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

If the Contractor's procedures for existing beam removal or placement of new beams involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Structures.

Slipforming of parapets is not allowed.

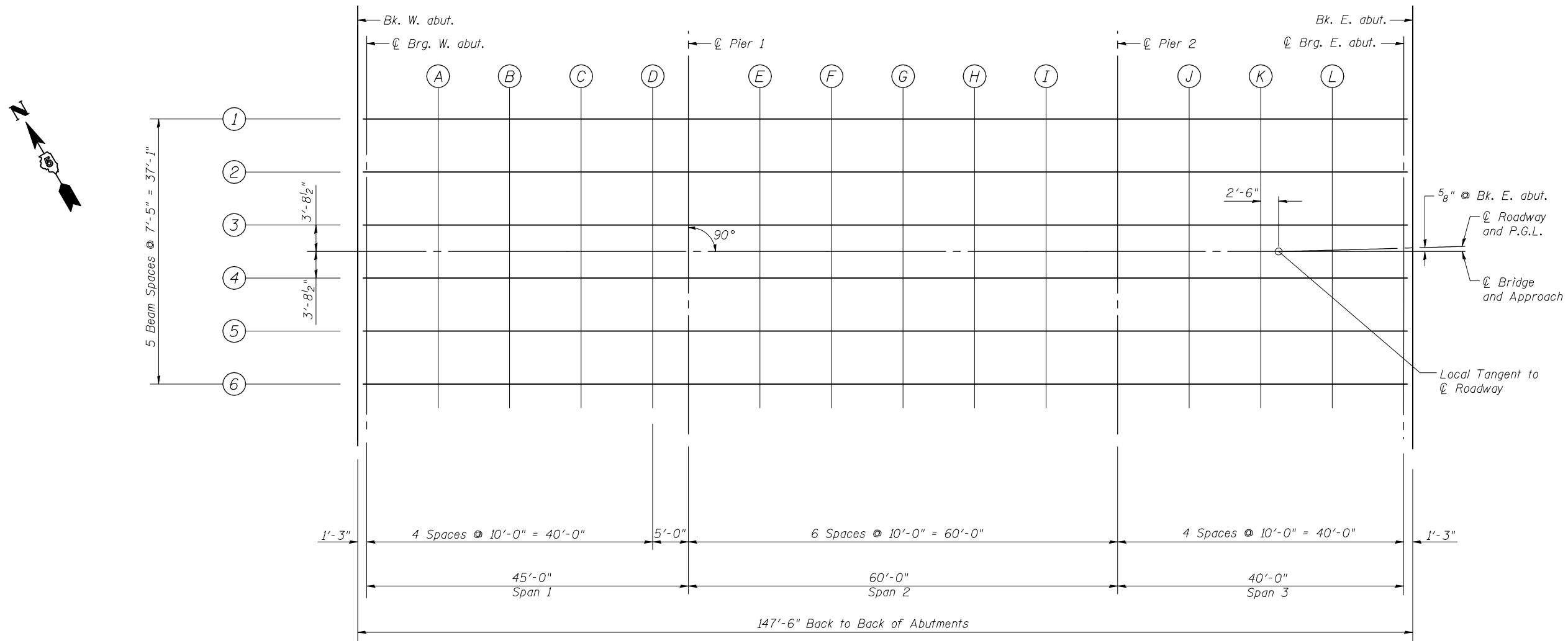
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		133	133
Stone Riprap, Class A4	Sq. Yd.		1512	1512
Filter Fabric	Sq. Yd.		1512	1512
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		277	277
Floor Drains	Each	16		16
Concrete Structures	Cu. Yd.		152.1	152.1
Concrete Superstructure	Cu. Yd.	218.5		218.5
Bridge Deck Grooving	Sq. Yd.	623		623
Concrete Encasement	Cu. Yd.		9.8	9.8
Protective Coat	Sq. Yd.	780		780
Furnishing and Erecting Structural Steel	L. Sum	1		1
Reinforcement Bars, Epoxy Coated	Pound	50780	13050	63830
Furnishing Steel Piles HP 12 x 53	Foot		1566	1566
Driving Piles	Foot		1566	1566
Test Pile Steel HP 12x53	Each		4	4
Name Plates	Each	1		1
Anchor Bolts, 1"	Each	48		48
Geocomposite Wall Drain	Sq. Yd.		68	68
Pipe Underdrains for Structures 4"	Foot		165	165
Underwater Structure Excavation Protection - Location 1	Each		1	1
Underwater Structure Excavation Protection - Location 2	Each		1	1
Stud Shear Connectors	Each	3276		3276
Bar Splicers	Each	84		84
Slope Wall Removal	Sq. Yd.		313	313
Asbestos Bearing Pad Removal	Each			52

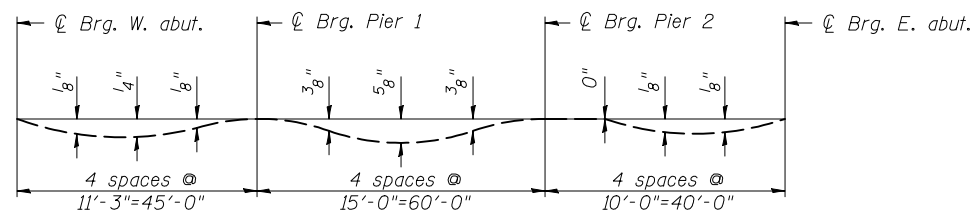
**GENERAL NOTES AND
 BILL OF MATERIAL
 US. ROUTE 150
 OVER KICKAPOO CREEK
 FAU ROUTE 6406 SECTION (BR-2)
 MCLEAN COUNTY
 STATION 407+23.50
 STRUCTURE NO. 057-0246**

ROUTE NO. F.A.U. 6406	SECTION 1(BR-2)	COUNTY MCLEAN	TOTAL SHEETS 74	SHEET NO. 27	SHEET NO. 3 22 SHEETS
FED. ROAD DIST. NO. 5		ILLINOIS		FED. AID PROJECT-	

Contract #70517



PLAN

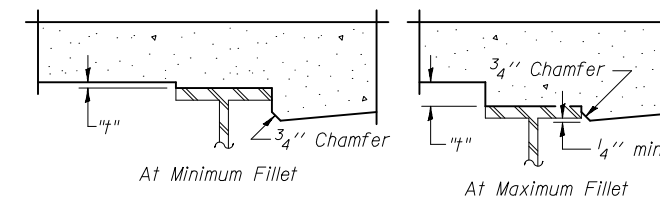


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 4 of 22.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 4 of 22, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

TOP OF SLAB ELEVATIONS (1 OF 2)

**US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION 1(BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 6406	1(BR-2)	MCLEAN	74	28
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 4
22 SHEETS

Contract #70517

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	406+49.75	-18'-6 1/2"	767.59	767.59
☉ Brg. W. Abut	406+51.00	-18'-6 1/2"	767.60	767.60
A	406+61.00	-18'-6 1/2"	767.64	767.65
B	406+71.00	-18'-6 1/2"	767.69	767.71
C	406+81.00	-18'-6 1/2"	767.73	767.74
D	406+91.00	-18'-6 1/2"	767.78	767.78
☉ Pier 1	406+96.00	-18'-6 1/2"	767.80	767.80
E	407+06.00	-18'-6 1/2"	767.85	767.87
F	407+16.00	-18'-6 1/2"	767.90	767.94
G	407+26.00	-18'-6 1/2"	767.94	767.99
H	407+36.00	-18'-6 1/2"	767.99	768.03
I	407+46.00	-18'-6 1/2"	768.03	768.05
☉ Pier 2	407+56.00	-18'-6 1/2"	768.08	768.08
J	407+66.00	-18'-6 1/2"	768.13	768.13
K	407+76.00	-18'-6 1/2"	768.17	768.18
L	407+86.00	-18'-6 3/8"	768.22	768.23
☉ Brg. E. Abut.	407+96.00	-18'-6"	768.26	768.26
Bk. E. Abut.	407+97.25	-18'-5 7/8"	768.27	768.27

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	406+49.75	11'-1 1/2"	767.74	767.74
☉ Brg. W. Abut	406+51.00	11'-1 1/2"	767.75	767.75
A	406+61.00	11'-1 1/2"	767.79	767.80
B	406+71.00	11'-1 1/2"	767.84	767.86
C	406+81.00	11'-1 1/2"	767.88	767.89
D	406+91.00	11'-1 1/2"	767.93	767.93
☉ Pier 1	406+96.00	11'-1 1/2"	767.95	767.95
E	407+06.00	11'-1 1/2"	768.00	768.02
F	407+16.00	11'-1 1/2"	768.05	768.09
G	407+26.00	11'-1 1/2"	768.09	768.14
H	407+36.00	11'-1 1/2"	768.14	768.18
I	407+46.00	11'-1 1/2"	768.18	768.20
☉ Pier 2	407+56.00	11'-1 1/2"	768.23	768.23
J	407+66.00	11'-1 1/2"	768.28	768.28
K	407+76.00	11'-1 1/2"	768.32	768.33
L	407+86.00	11'-1 3/8"	768.37	768.38
☉ Brg. E. Abut.	407+96.00	11'-1"	768.41	768.41
Bk. E. Abut.	407+97.25	11'-0 7/8"	768.42	768.42

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	406+49.75	3'-8 1/2"	767.85	767.85
☉ Brg. W. Abut	406+51.00	3'-8 1/2"	767.86	767.86
A	406+61.00	3'-8 1/2"	767.90	767.91
B	406+71.00	3'-8 1/2"	767.95	767.97
C	406+81.00	3'-8 1/2"	767.99	768.00
D	406+91.00	3'-8 1/2"	768.04	768.04
☉ Pier 1	406+96.00	3'-8 1/2"	768.06	768.06
E	407+06.00	3'-8 1/2"	768.11	768.13
F	407+16.00	3'-8 1/2"	768.16	768.20
G	407+26.00	3'-8 1/2"	768.20	768.25
H	407+36.00	3'-8 1/2"	768.25	768.29
I	407+46.00	3'-8 1/2"	768.29	768.31
☉ Pier 2	407+56.00	3'-8 1/2"	768.34	768.34
J	407+66.00	3'-8 1/2"	768.39	768.39
K	407+76.00	3'-8 1/2"	768.43	768.44
L	407+86.00	3'-8 3/8"	768.48	768.49
☉ Brg. E. Abut.	407+96.00	3'-8"	768.52	768.52
Bk. E. Abut.	407+97.25	3'-7 7/8"	768.53	768.53

☉ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	406+49.75	0''-0"	767.91	767.91
☉ Brg. W. Abut	406+51.00	0''-0"	767.92	767.92
A	406+61.00	0''-0"	767.96	767.97
B	406+71.00	0''-0"	768.01	768.03
C	406+81.00	0''-0"	768.05	768.06
D	406+91.00	0''-0"	768.10	768.10
☉ Pier 1	406+96.00	0''-0"	768.12	768.12
E	407+06.00	0''-0"	768.17	768.19
F	407+16.00	0''-0"	768.22	768.26
G	407+26.00	0''-0"	768.26	768.31
H	407+36.00	0''-0"	768.31	768.35
I	407+46.00	0''-0"	768.35	768.37
☉ Pier 2	407+56.00	0''-0"	768.40	768.40
J	407+66.00	0''-0"	768.45	768.45
K	407+76.00	0''-0"	768.49	768.50
L	407+86.00	0''-0"	768.54	768.55
☉ Brg. E. Abut.	407+96.00	0''-0"	768.58	768.58
Bk. E. Abut.	407+97.25	0''-0"	768.59	768.59

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	406+49.75	18'-6 1/2"	767.59	767.59
☉ Brg. W. Abut	406+51.00	18'-6 1/2"	767.60	767.60
A	406+61.00	18'-6 1/2"	767.64	767.65
B	406+71.00	18'-6 1/2"	767.69	767.71
C	406+81.00	18'-6 1/2"	767.73	767.74
D	406+91.00	18'-6 1/2"	767.78	767.78
☉ Pier 1	406+96.00	18'-6 1/2"	767.80	767.80
E	407+06.00	18'-6 1/2"	767.85	767.87
F	407+16.00	18'-6 1/2"	767.90	767.94
G	407+26.00	18'-6 1/2"	767.94	767.99
H	407+36.00	18'-6 1/2"	767.99	768.03
I	407+46.00	18'-6 1/2"	768.03	768.05
☉ Pier 2	407+56.00	18'-6 1/2"	768.08	768.08
J	407+66.00	18'-6 1/2"	768.13	768.13
K	407+76.00	18'-6 1/2"	768.17	768.18
L	407+86.00	18'-6 5/8"	768.22	768.23
☉ Brg. E. Abut.	407+96.00	18'-7"	768.26	768.26
Bk. E. Abut.	407+97.25	18'-7 1/8"	768.27	768.27

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	406+49.75	11'-1 1/2"	767.74	767.74
☉ Brg. W. Abut	406+51.00	11'-1 1/2"	767.75	767.75
A	406+61.00	11'-1 1/2"	767.79	767.80
B	406+71.00	11'-1 1/2"	767.84	767.86
C	406+81.00	11'-1 1/2"	767.88	767.89
D	406+91.00	11'-1 1/2"	767.93	767.93
☉ Pier 1	406+96.00	11'-1 1/2"	767.95	767.95
E	407+06.00	11'-1 1/2"	768.00	768.02
F	407+16.00	11'-1 1/2"	768.05	768.09
G	407+26.00	11'-1 1/2"	768.09	768.14
H	407+36.00	11'-1 1/2"	768.14	768.18
I	407+46.00	11'-1 1/2"	768.18	768.20
☉ Pier 2	407+56.00	11'-1 1/2"	768.23	768.23
J	407+66.00	11'-1 1/2"	768.28	768.28
K	407+76.00	11'-1 1/2"	768.32	768.33
L	407+86.00	11'-1 5/8"	768.37	768.38
☉ Brg. E. Abut.	407+96.00	11'-2"	768.41	768.41
Bk. E. Abut.	407+97.25	11'-2 1/8"	768.42	768.42

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	406+49.75	3'-8 1/2"	767.85	767.85
☉ Brg. W. Abut	406+51.00	3'-8 1/2"	767.86	767.86
A	406+61.00	3'-8 1/2"	767.90	767.91
B	406+71.00	3'-8 1/2"	767.95	767.97
C	406+81.00	3'-8 1/2"	767.99	768.00
D	406+91.00	3'-8 1/2"	768.04	768.04
☉ Pier 1	406+96.00	3'-8 1/2"	768.06	768.06
E	407+06.00	3'-8 1/2"	768.11	768.13
F	407+16.00	3'-8 1/2"	768.16	768.20
G	407+26.00	3'-8 1/2"	768.20	768.25
H	407+36.00	3'-8 1/2"	768.25	768.29
I	407+46.00	3'-8 1/2"	768.29	768.31
☉ Pier 2	407+56.00	3'-8 1/2"	768.34	768.34
J	407+66.00	3'-8 1/2"	768.39	768.39
K	407+76.00	3'-8 1/2"	768.43	768.44
L	407+86.00	3'-8 5/8"	768.48	768.49
☉ Brg. E. Abut.	407+96.00	3'-9"	768.52	768.52
Bk. E. Abut.	407+97.25	3'-9 1/8"	768.53	768.53

TOP OF SLAB ELEVATIONS (2 OF 2)
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION 1(BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246

Contract #70517

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	406+19.75	-20.00	767.40
A	406+29.75	-20.00	767.45
B	406+39.75	-20.00	767.49
Bk. W. Abut.	406+49.75	-20.00	767.54

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	406+19.75	-12.00	767.58
A	406+29.75	-12.00	767.63
B	406+39.75	-12.00	767.67
Bk. W. Abut.	406+49.75	-12.00	767.72

☉ ROADWAY & PG

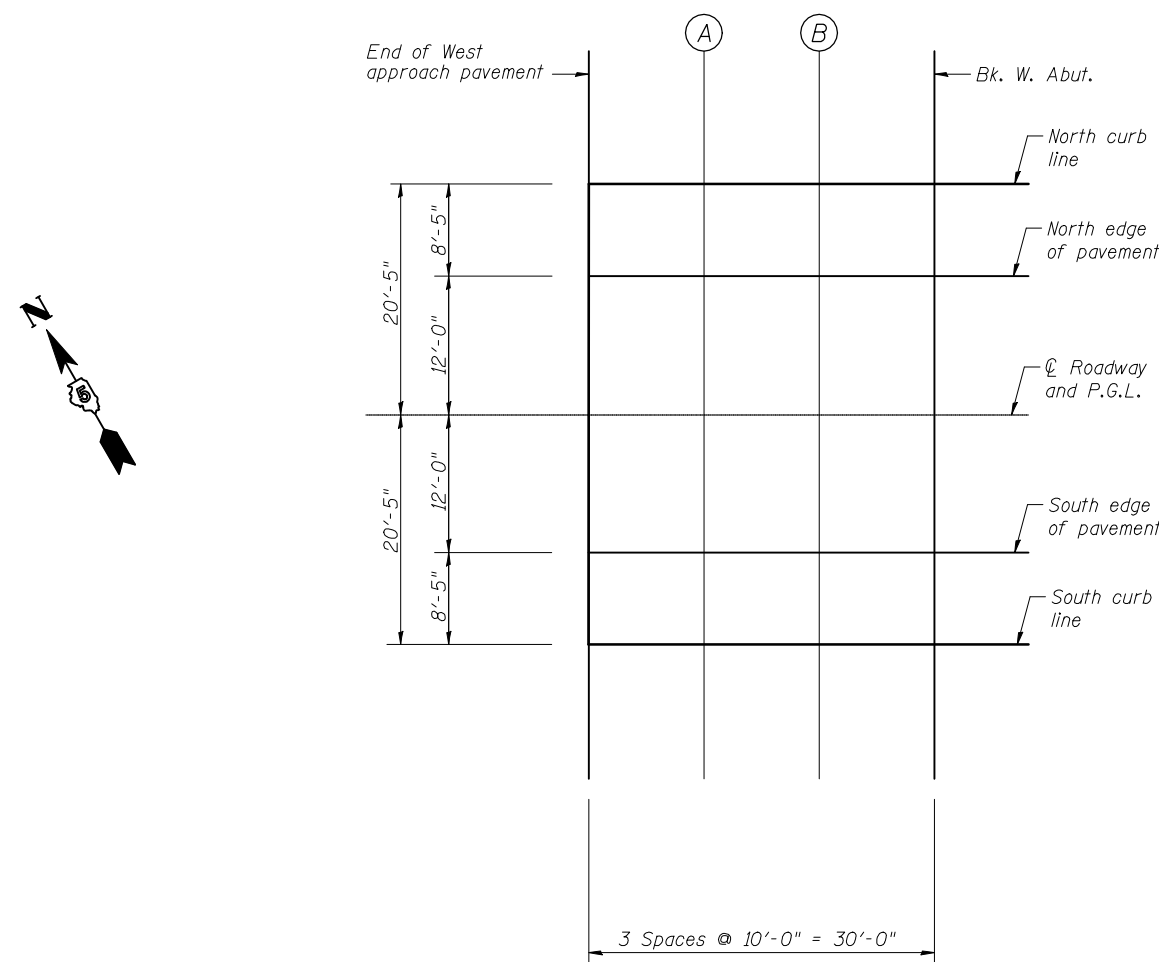
Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	406+19.75	0.00	767.77
A	406+29.75	0.00	767.82
B	406+39.75	0.00	767.86
Bk. W. Abut.	406+49.75	0.00	767.91

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	406+19.75	12.00	767.58
A	406+29.75	12.00	767.63
B	406+39.75	12.00	767.67
Bk. W. Abut.	406+49.75	12.00	767.72

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	406+19.75	20.00	767.40
A	406+29.75	20.00	767.45
B	406+39.75	20.00	767.49
Bk. W. Abut.	406+49.75	20.00	767.54



PLAN

**TOP OF WEST APPROACH
SLAB ELEVATIONS
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION (BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246**

Contract #70517

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	407+97.25	-20.37	768.22
A	408+07.25	-20.29	768.26
B	408+17.25	-20.17	768.32
End E. Appr. Pav't	408+27.25	-20.03	768.38

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	407+97.25	-11.95	768.40
A	408+07.25	-11.87	768.44
B	408+17.25	-11.75	768.50
End E. Appr. Pav't	408+27.25	-11.61	768.56

☉ ROADWAY & PG

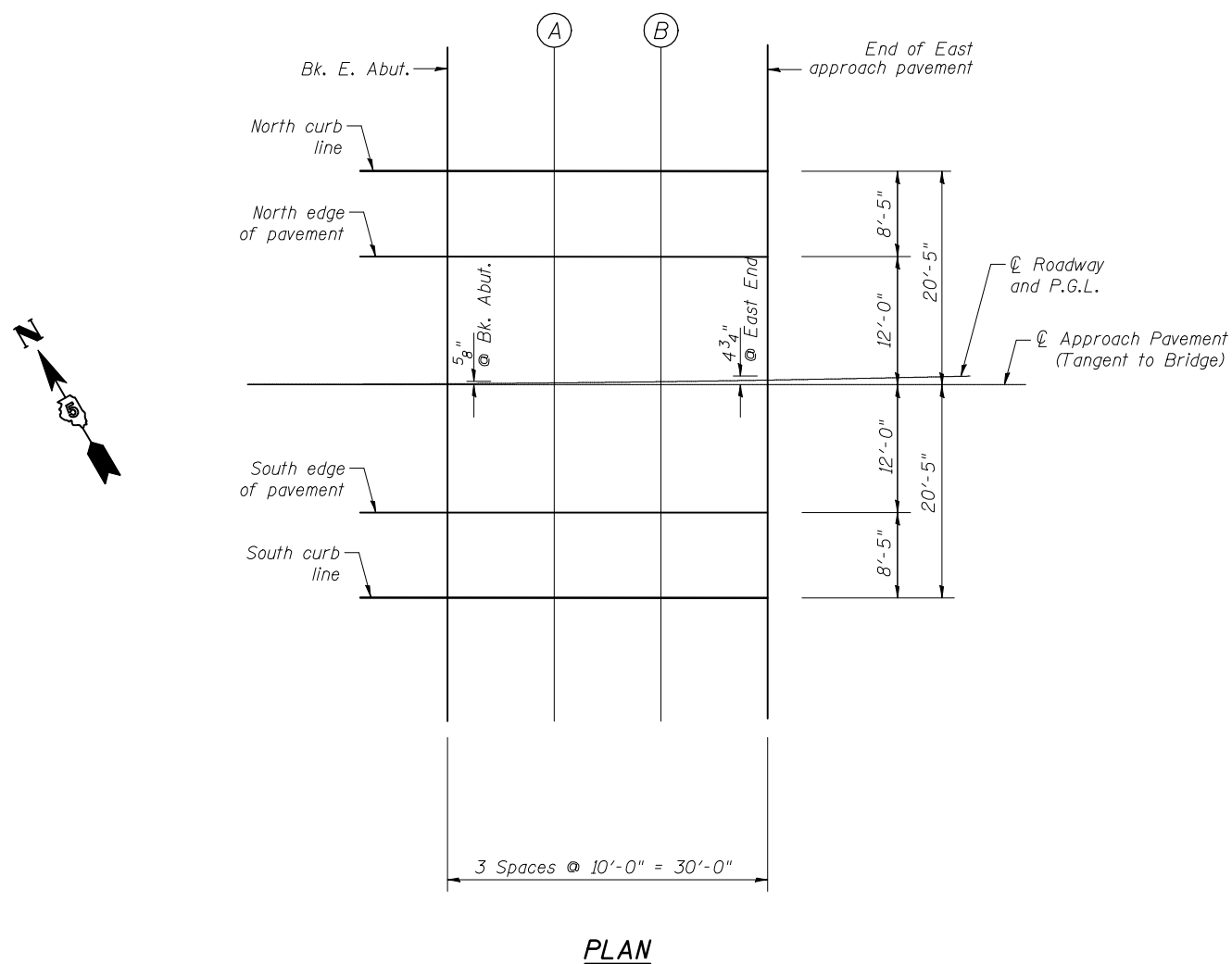
Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	407+97.25	-0.00	768.59
A	408+07.25	-0.00	768.63
B	408+17.25	-0.00	768.69
End E. Appr. Pav't	408+27.25	-0.00	768.75

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	407+97.25	12.05	768.40
A	408+07.25	12.13	768.44
B	408+17.25	12.25	768.50
End E. Appr. Pav't	408+27.25	12.39	768.56

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	407+97.25	20.47	768.22
A	408+07.25	20.55	768.26
B	408+17.25	20.67	768.32
End E. Appr. Pav't	408+27.25	20.81	768.38

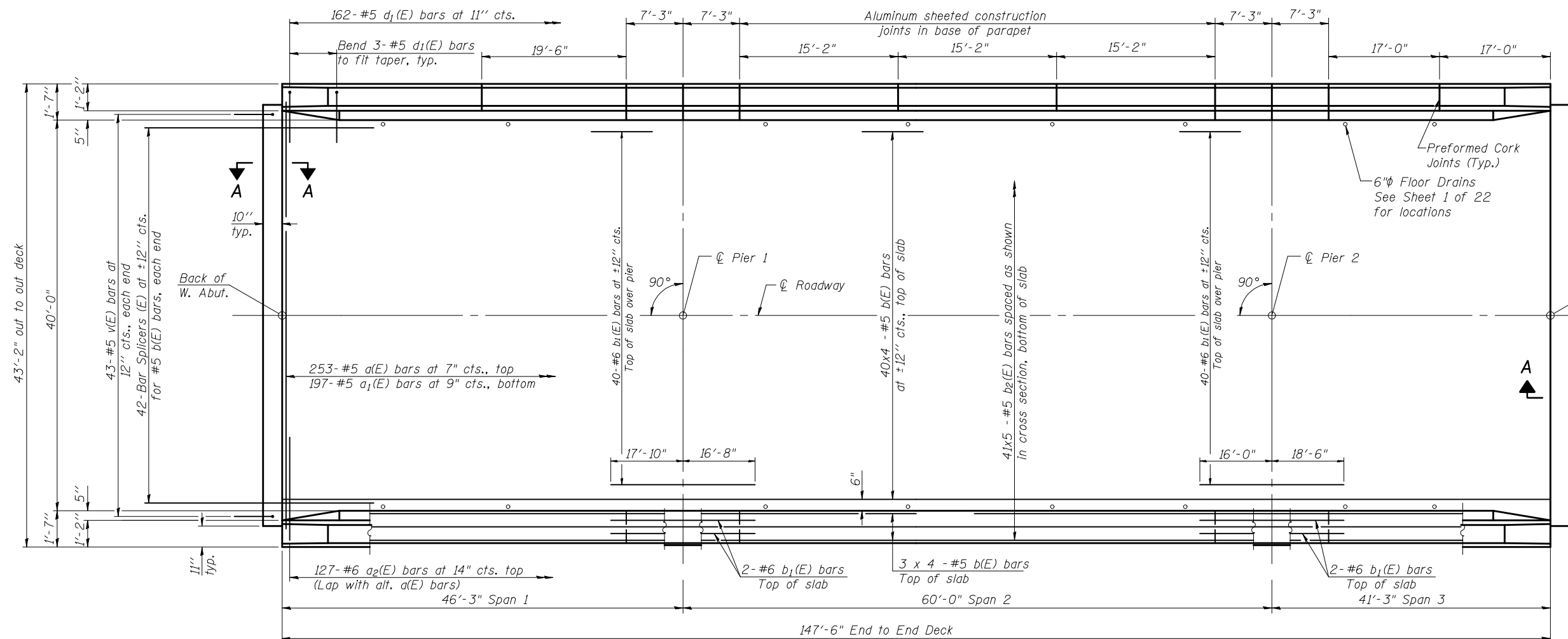


PLAN

**TOP OF EAST APPROACH
SLAB ELEVATIONS
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION 1(BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246**

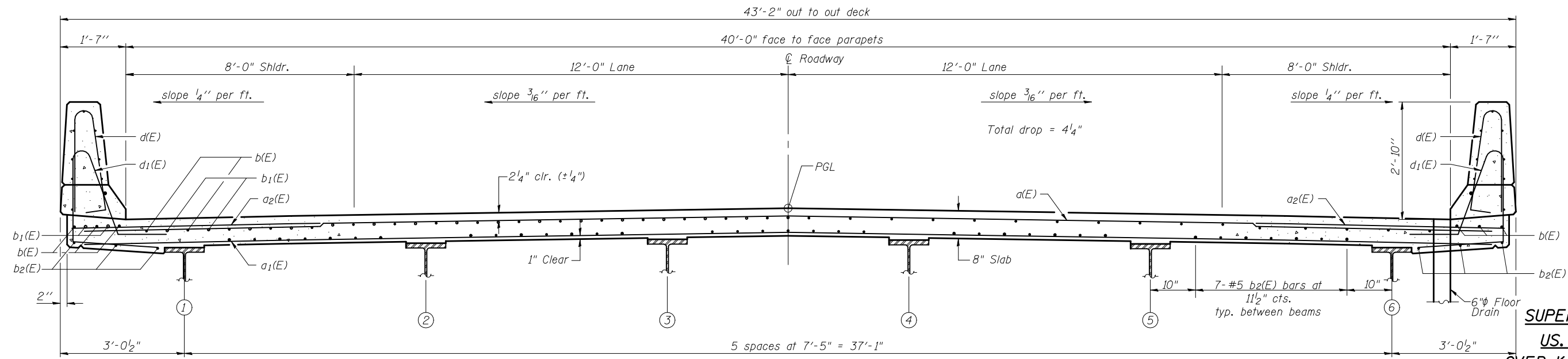
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7 22 SHEETS
F.A.U. 6406	1(BR-2)	MCLEAN	74	31	
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT-			

Contract #70517



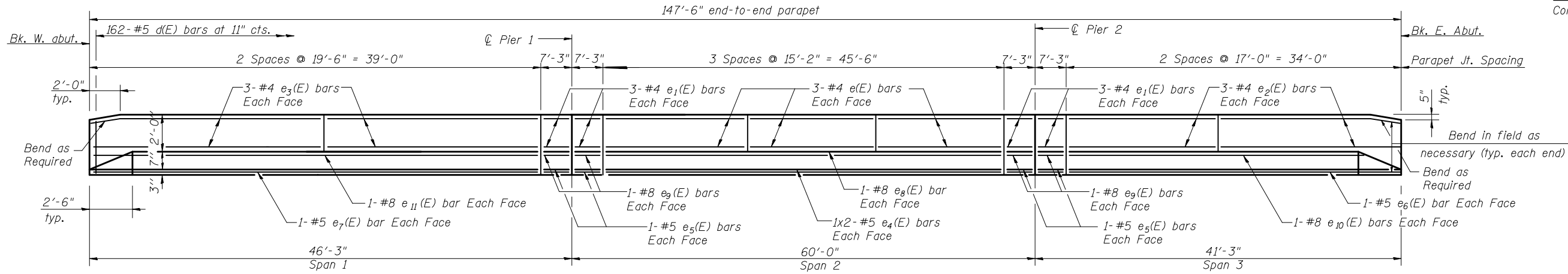
MINIMUM BAR LAP
 #5 bar = 1'-8"

Notes:
 See Sheet 8 of 22 for superstructure details and Bill of Material.
 Bars indicated thus 40 x 4-#5 etc. indicates 40 lines of bars with 4 lengths per line.
 See Sheet 8 of 22 for parapet reinforcement.
 For details of bar splicers see Sheet 16 of 22.

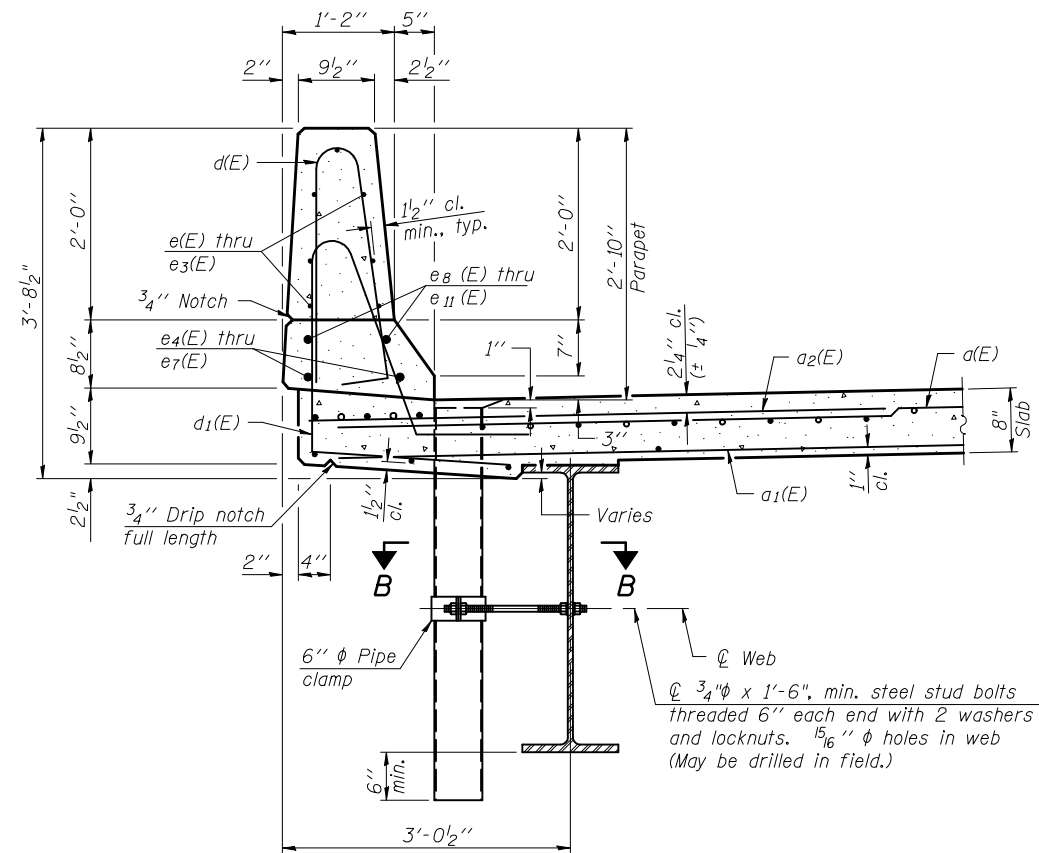


SUPERSTRUCTURE
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION 1(BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246

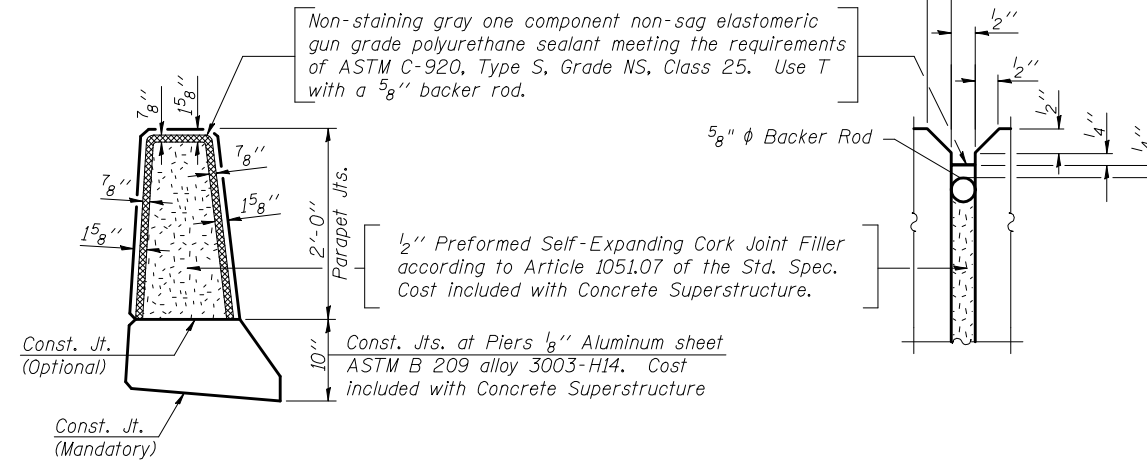
Contract #70517



INSIDE ELEVATION OF PARAPET



SECTION THRU PARAPET



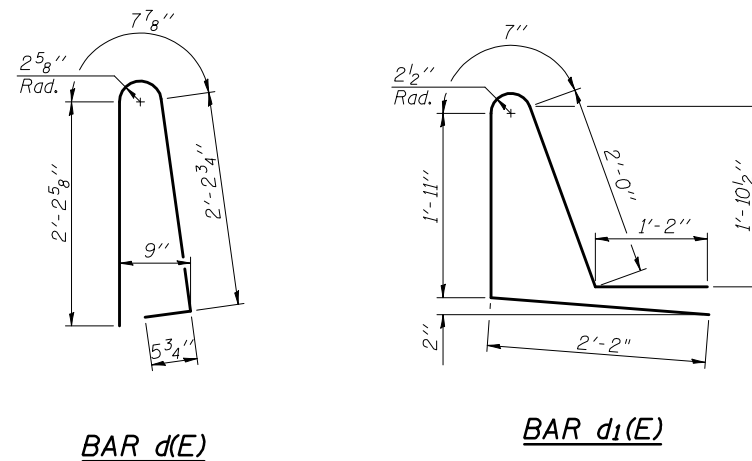
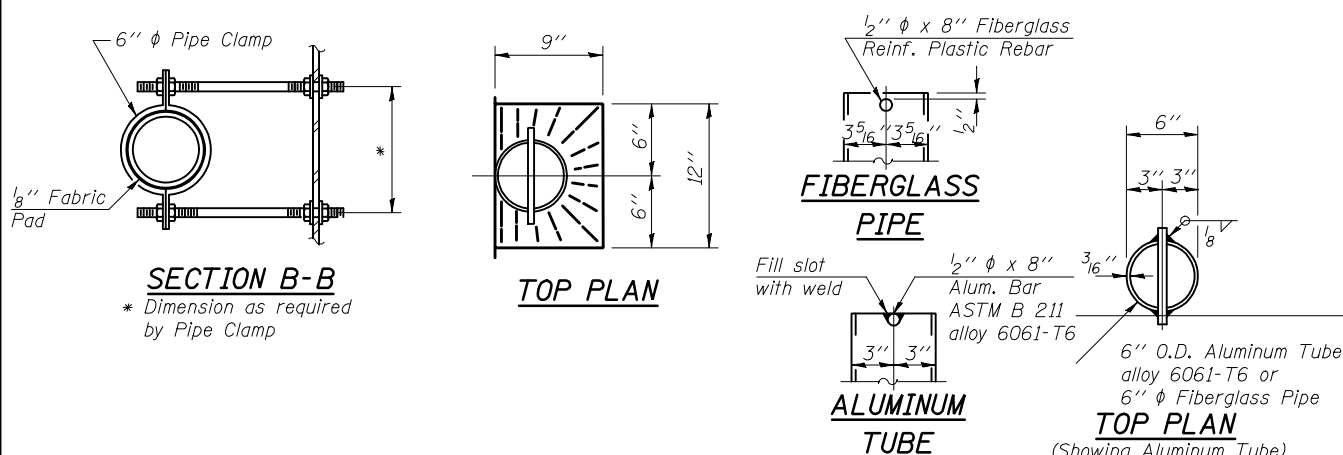
PARAPET JOINT DETAILS

Notes:

The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Steel Structures Painting Council's Spec. SSPC-SP1 prior to painting. Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

MINIMUM BAR LAP

#5 bar = 2'-2"



SUPERSTRUCTURE BILL OF MATERIAL

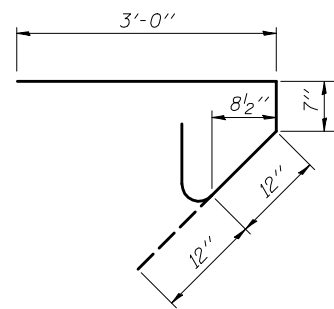
Bar	No.	Size	Length	Shape
a(E)	253	#5	42'-2"	—
a1(E)	197	#5	42'-1"	—
a2(E)	254	#6	6'-0"	—
b(E)	184	#5	38'-1"	—
b1(E)	88	#6	34'-6"	—
b2(E)	205	#5	30'-9"	—
d(E)	324	#5	5'-7"	┘
d1(E)	324	#5	7'-10"	┘
e(E)	36	#4	14'-10"	—
e1(E)	48	#4	6'-11"	—
e2(E)	24	#4	16'-8"	—
e3(E)	24	#4	19'-2"	—
e4(E)	8	#5	23'-8"	—
e5(E)	16	#5	6'-11"	—
e6(E)	4	#5	33'-8"	—
e7(E)	4	#5	38'-8"	—
e8(E)	4	#8	45'-2"	—
e9(E)	16	#8	6'-11"	—
e10(E)	4	#8	33'-8"	—
e11(E)	4	#8	38'-8"	—
m(E)	4	#6	41'-0"	—
m1(E)	6	#6	42'-10"	—
m2(E)	24	#6	9'-5"	—
m3(E)	10	#6	7'-0"	—
m4(E)	4	#6	2'-8"	—
s(E)	92	#5	5'-7"	┘
s1(E)	82	#4	9'-0"	┘
v(E)	86	#5	3'-4"	┘
Reinforcement Bars, Epoxy Coated	Pound		50780	
Concrete Superstructure	Cu. Yds.		218.5	
Floor Drains	Each		16	
Bridge Deck Grooving	Sq. Yd.		623	
Protective Coat	Sq. Yd.		780	
Bar Splicers	Each		84	

Bars indicated thus 1 x 2 -#5 etc. indicates 1 line of bars with 2 lengths per line. See Sheet 9 of 22 for details of bars s(E), s1(E) and v(E).

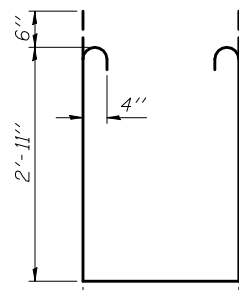
SUPERSTRUCTURE DETAILS
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION 1(BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 9 22 SHEETS
F.A.U. 6406	1(BR-2)	MCLEAN	74	33	
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT-			

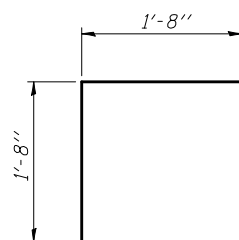
Contract #70517



BAR s(E)



BAR s1(E)

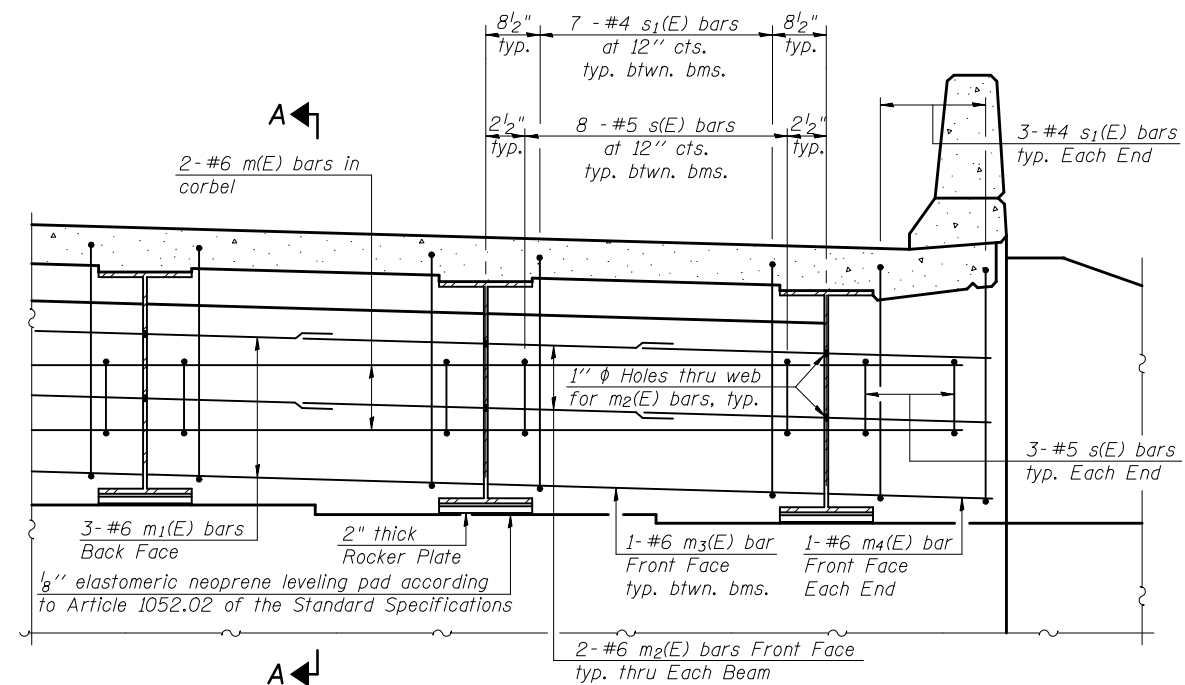


BAR v(E)

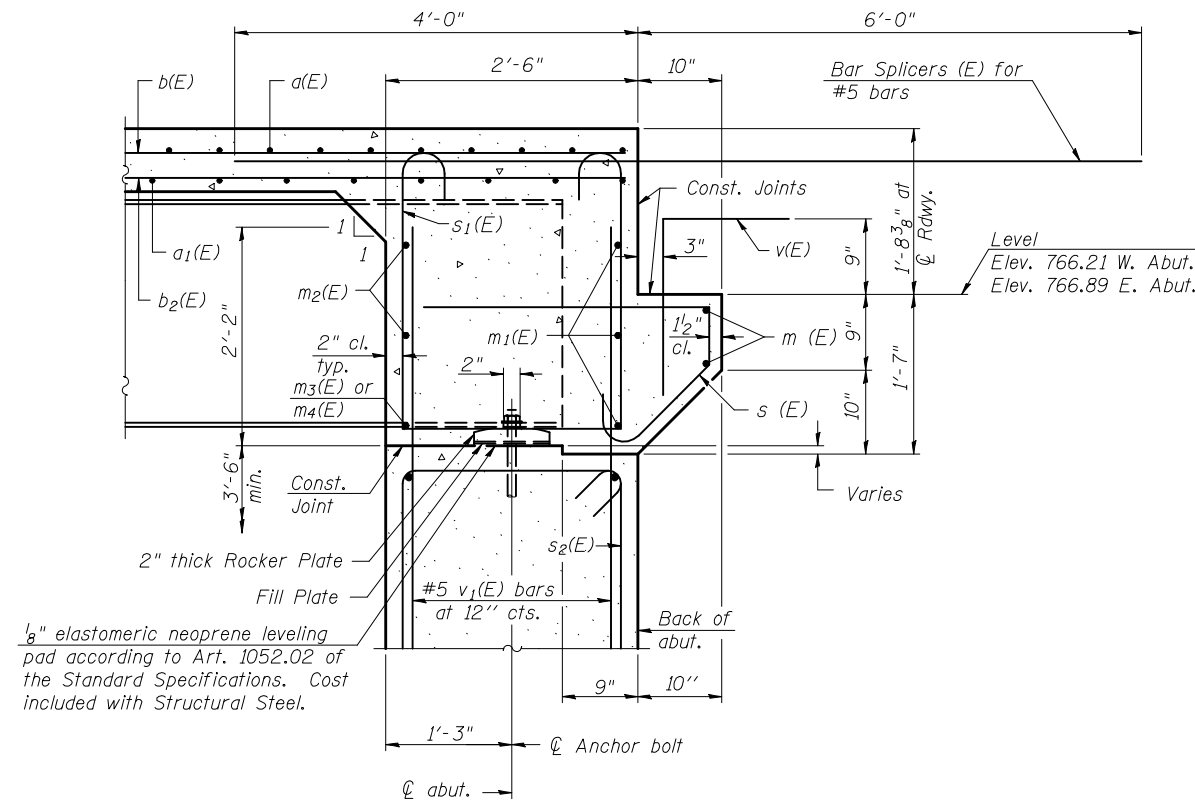
Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 22.
Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 22.
For details of bar splicers see sheet 16 of 22.

MINIMUM BAR LAP

#6 bar = 2'-9"



DIAPHRAGM ELEVATION AT ABUTMENT



SECTION A-A

ABUTMENT DIAPHRAGM DETAILS
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION 1(BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246

Contract #70517

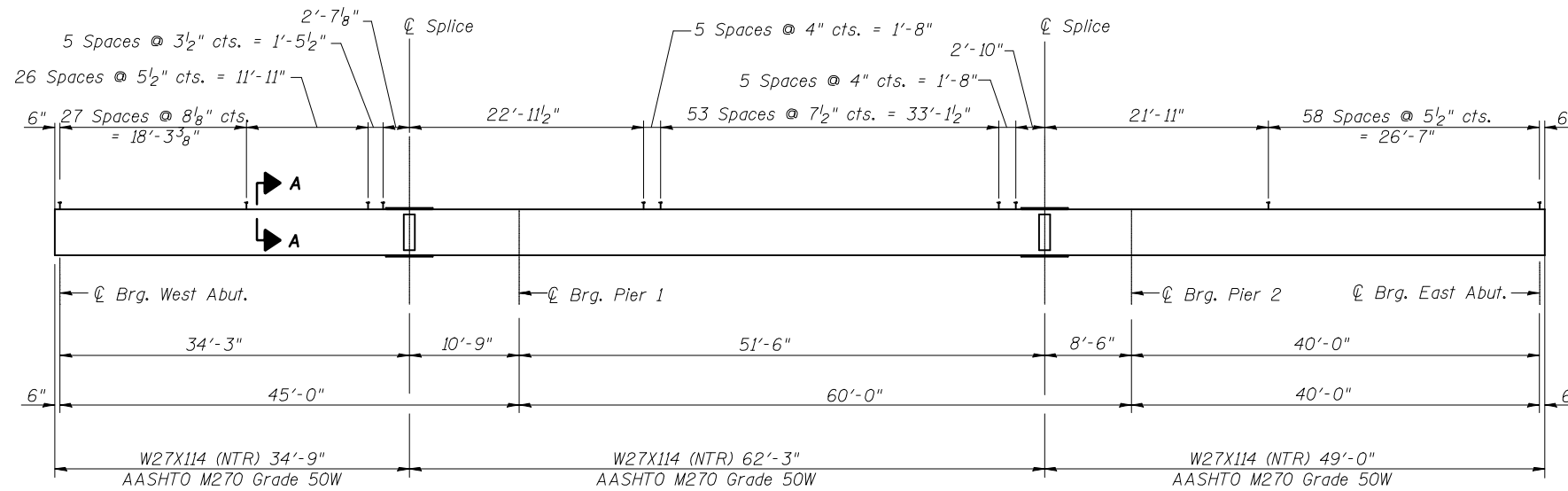
INTERIOR GIRDER MOMENT TABLE						
		0.4 spa. #1	Pier 1	0.5 spa. #2	Pier 2	0.6 spa. #3
I_s	(in ⁴)	4080	4080	4080	4080	4080
$I_c(n)$	(in ⁴)	11833		11833		11833
$I_c(3n)$	(in ⁴)	8817		8817		8817
S_s	(in ³)	299	299	299	299	299
$S_c(n)$	(in ³)	454		454		454
$S_c(3n)$	(in ³)	412		412		412
ρ	(k/')	0.888	1.308	0.888	1.308	0.888
$M\rho$	(k)	114	359	157	327	80
$s\rho$	(k/')	0.420		0.420		0.420
$M_s\rho$	(k)	76		118		55
M_L	(k)	311	180	395	174	253
M_{Imp}	(k)	91	51	106	50	76
$^{5/3} [M_L + Imp]$	(k)	670	385	835	374	549
M_a	(k)	1118	967	1443	911	889
M_u	(k)	1806		1771		1833
$f_s \rho$ non-comp	(ksi)	4.6	14.5	6.4	13.2	3.3
$f_s \rho$ (comp)	(ksi)	2.3		3.5		1.7
$f_s \ ^{5/3} [M_L + M_{Imp}]$	(ksi)	17.7	15.5	22.1	15.1	14.6
f_s (Overload)	(ksi)	24.6	30.0	32.0	28.3	19.6
** f_s (Total)	(ksi)		39.0		36.8	
VR	(k)	52.5		47.5		51.1

INTERIOR GIRDER REACTION TABLE					
	W. abut.	Pier 1	E. abut.	Pier 2	
$R\rho$	(k)	22.9	80.5	76.2	19.3
R_L	(k)	37.1	44.6	44.5	35.6
Imp.	(k)	10.9	9.7	9.9	10.7
R_{Total}	(k)	70.9	134.8	130.6	65.6

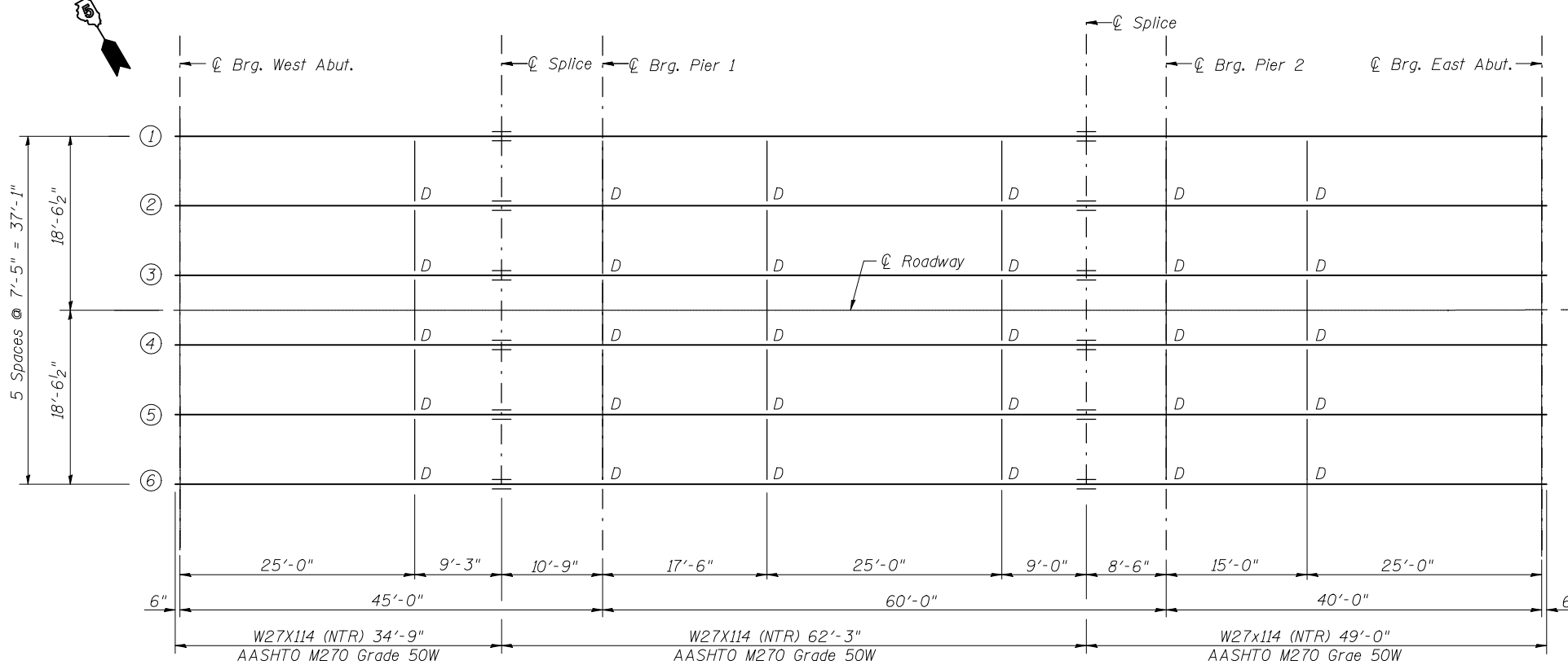
* Compact section Braced
** non-compact and partially braced section

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total and Overload) due to non-composite dead loads (in.4 and in.3).
 $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total and Overload) due to short-term composite live loads (in.4 and in.3).
 $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total and Overload) due to long-term composite (superimposed) dead loads (in.4 and in.3).
 ρ : Un-factored non-composite dead load (kips/ft.).
 $M\rho$: Un-factored moment due to non-composite dead load (kip-ft.).
 $s\rho$: Un-factored long-term composite (superimposed) dead load (kips/ft.).
 $M_s\rho$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
 M_L : Un-factored live load moment (kip-ft.).
 M_{Imp} : Un-factored moment due to impact (kip-ft.).
 M_a : Factored design moment (kip-ft.).
 $1.3 [M\rho + M_s\rho + \frac{5}{3} (M_L + M_{Imp})]$
 M_u : Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).
 f_s (Overload): Sum of stresses as computed from the moments below (ksi).
 $M\rho + M_s\rho + \frac{5}{3} (M_L + M_{Imp})$
 f_s (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).
 $1.3 [M\rho + M_s\rho + \frac{5}{3} (M_L + M_{Imp})]$
VR: Maximum $L + impact$ horizontal shear range within the composite portion of the span for stud shear connector design (kips).

**FRAMING PLAN AND
BEAM DETAILS
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION 11BR-2
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246**



ELEVATION



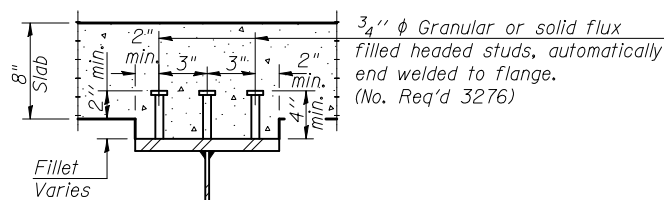
FRAMING PLAN

Note:
All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.

	W. Abut.	Splice 1	Pier 1	Splice 2	Pier 2	E. Abut.
Beam 1 and 6	766.81	766.96	767.01	767.25	767.29	767.47
Beam 2 and 5	766.96	767.11	767.16	767.40	767.44	767.62
Beam 3 and 4	767.07	767.22	767.27	767.51	767.55	767.73

TOP OF BEAM ELEVATIONS

(For Fabrication use Only)

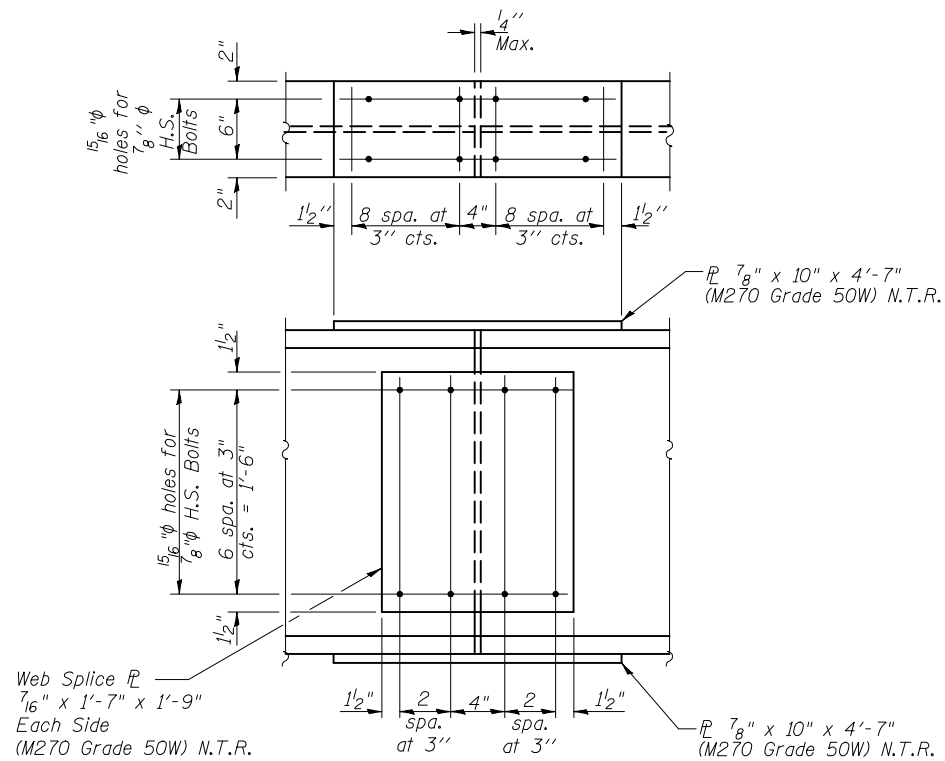


SECTION A-A

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 6406	1(BR-2)	MCLEAN	74	35
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT-		

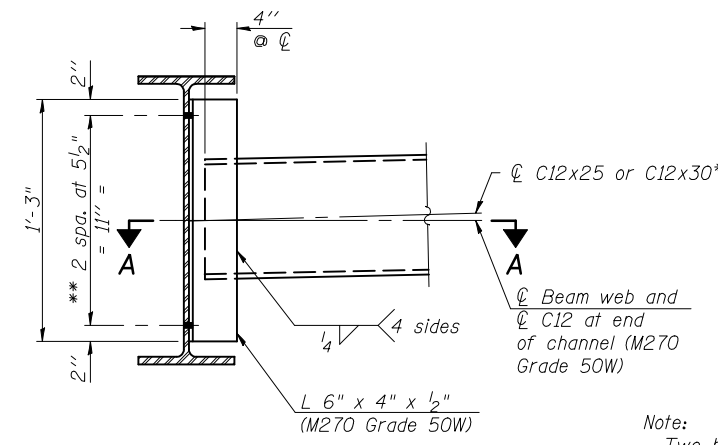
SHEET NO. 11
22 SHEETS

Contract #70517



SPLICE

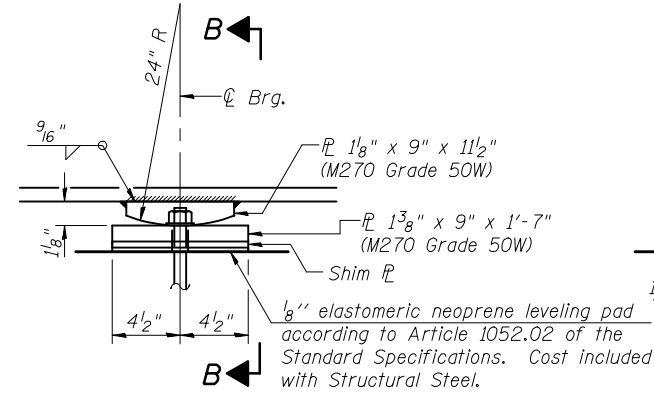
Note:
Steel designated with N.T.R. shall conform to the requirements for Notch Toughness (Zone 2).



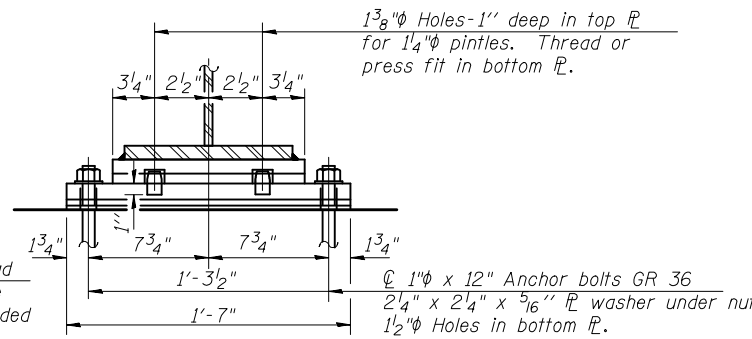
INTERIOR DIAPHRAGM
(30 Required)

Note:
Two hardened washers required for each set of oversized holes.

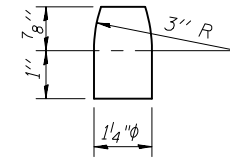
* Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
** 3/4" diameter HS bolts, 15/16" diameter holes



ELEVATION AT PIER



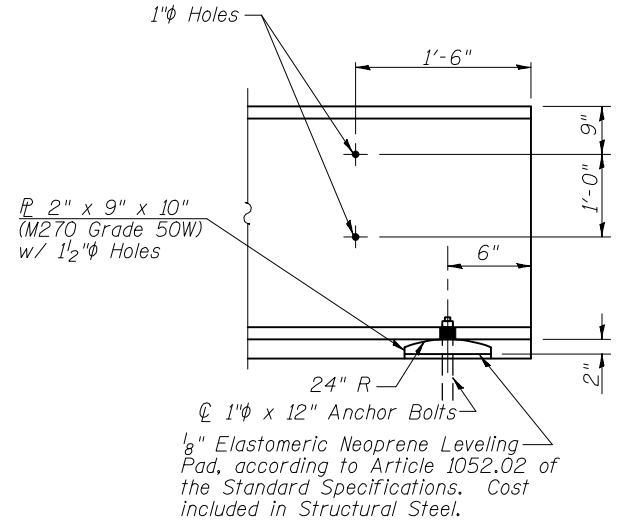
SECTION B-B



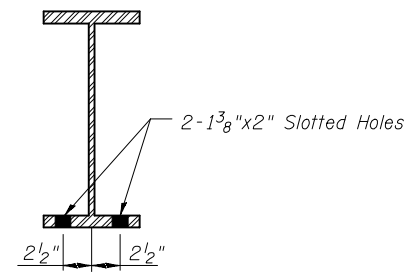
PINTLE

FIXED BEARING AT PIERS
(12 Required)

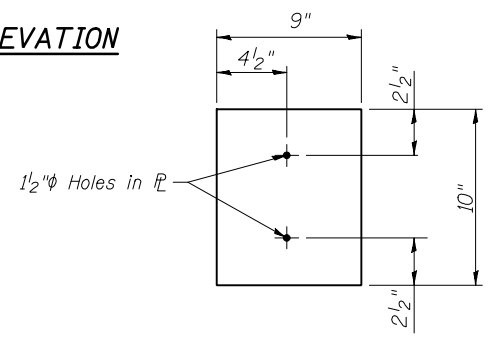
Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.



ELEVATION



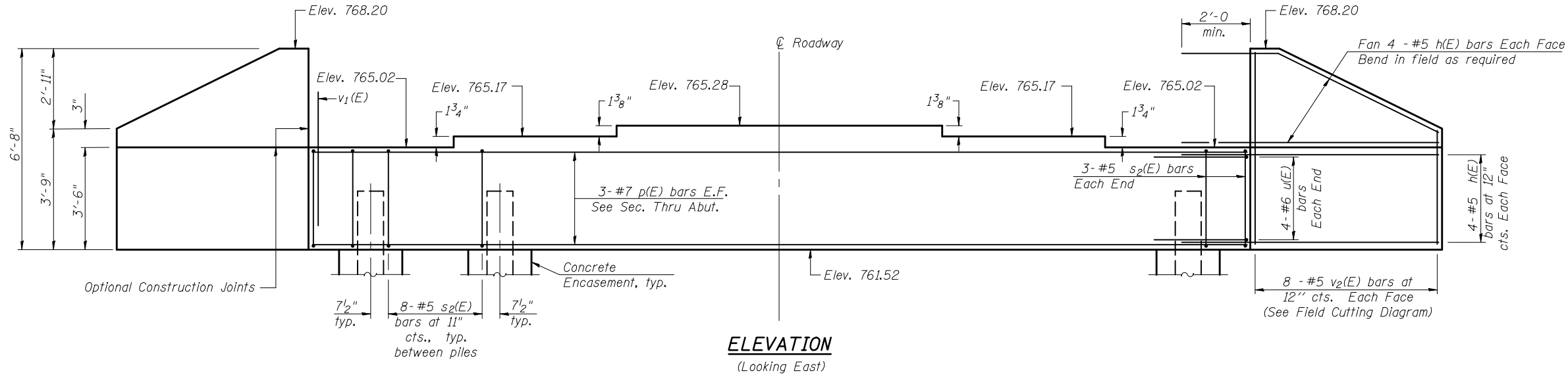
SECTION



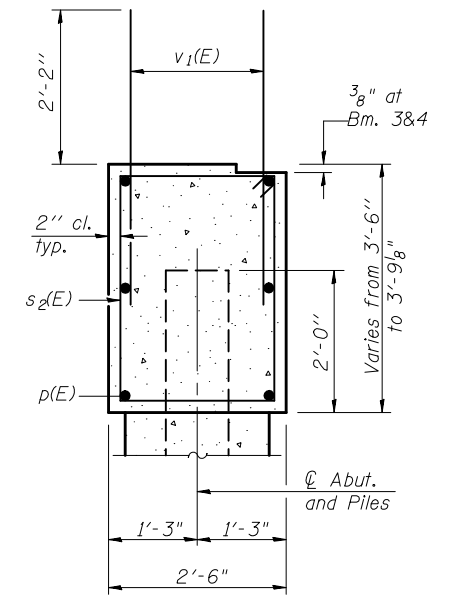
NEOPRENE MAT AND ROCKER PLAN AT ABUTMENTS
(12 Required)

STRUCTURAL STEEL DETAILS
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION 1(BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246

Contract #70517



ELEVATION
(Looking East)



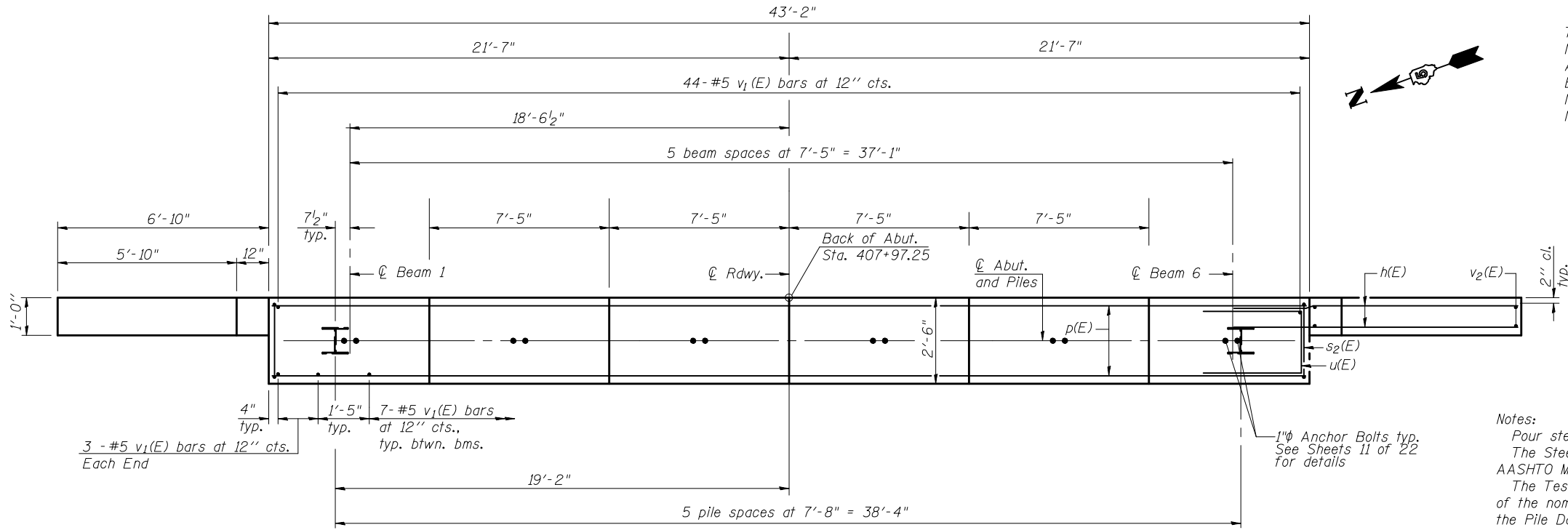
SEC. THRU ABUT.

PILE DATA

Type: Steel HP 12X53
 Nominal Required Bearing: 419 kips
 Allowable Resistance Available: 140 kips
 Est. Length: 49 ft.
 No. Production Piles: 5
 No. Test Piles: 1

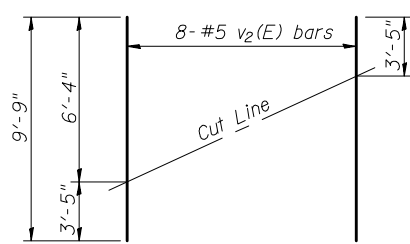
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#5	8'-8"	—
p(E)	6	#7	42'-10"	—
s2(E)	46	#5	11'-7"	□
u(E)	8	#6	10'-1"	—
v1(E)	85	#5	4'-4"	—
v2(E)	16	#5	9'-9"	—
Structure Excavation		Cu. Yd.	55.3	
Concrete Structures		Cu. Yd.	17.3	
Reinforcement Bars, Epoxy Coated		Pound	2040	
Furnishing Steel Piles, 12x53		Foot	245	
Driving Piles		Foot	245	
Test Pile, HP 12x53		Each	1	
Concrete Encasement		Cu. Yd.	2.1	



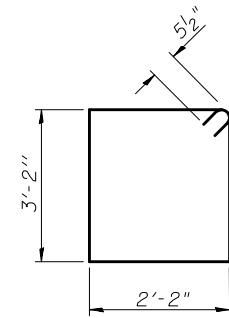
PLAN

Notes:
 Pour steps monolithically with cap.
 The Steel H Piles shall be according to AASHTO M270 Grade 50.
 The Test Pile shall be driven to 110 percent of the nominal required bearing indicated in the Pile Data information.
 Space reinforcement to miss anchor bolts.
 All edges to have 3/4" chamfer except as noted.
 For details of Bar Splicers, see sheet 16 of 22.
 For details of piles and Concrete Encasement, see sheet 17 of 22.

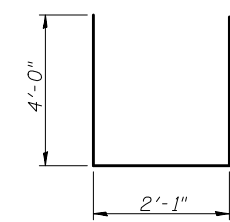


FIELD CUTTING DIAGRAM

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



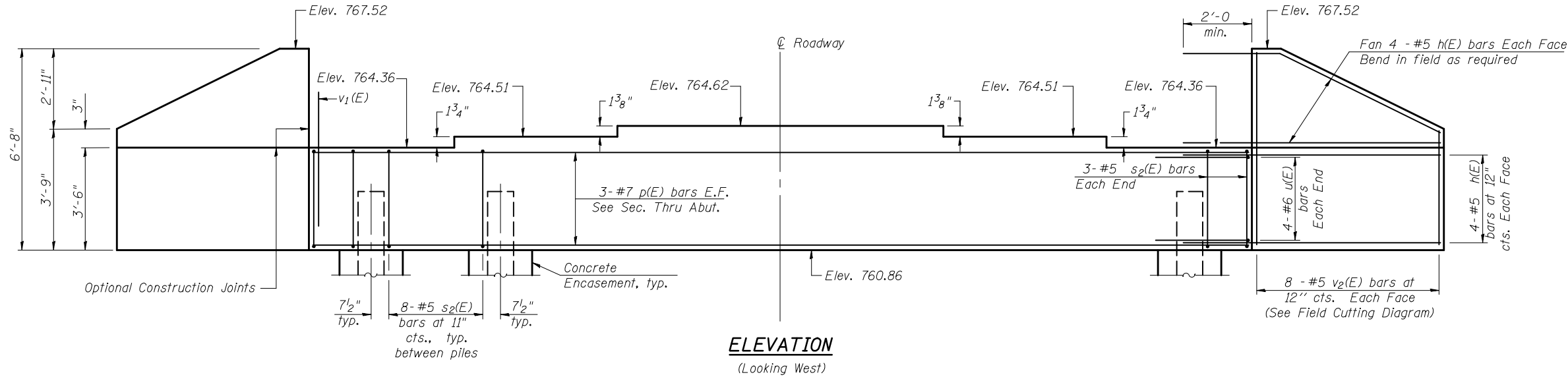
BAR s2(E)



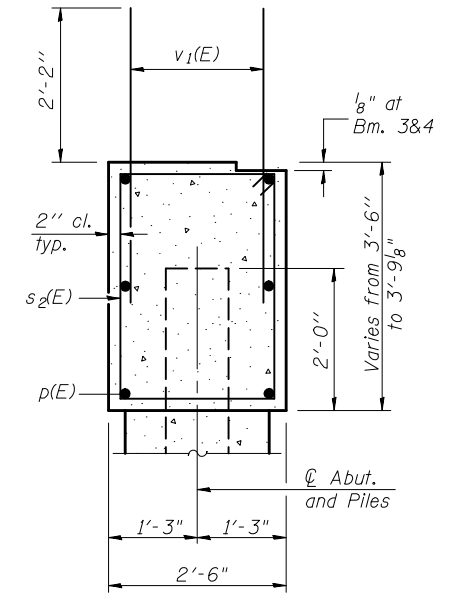
BAR u(E)

EAST ABUTMENT
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION 1(BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246

Contract #70517



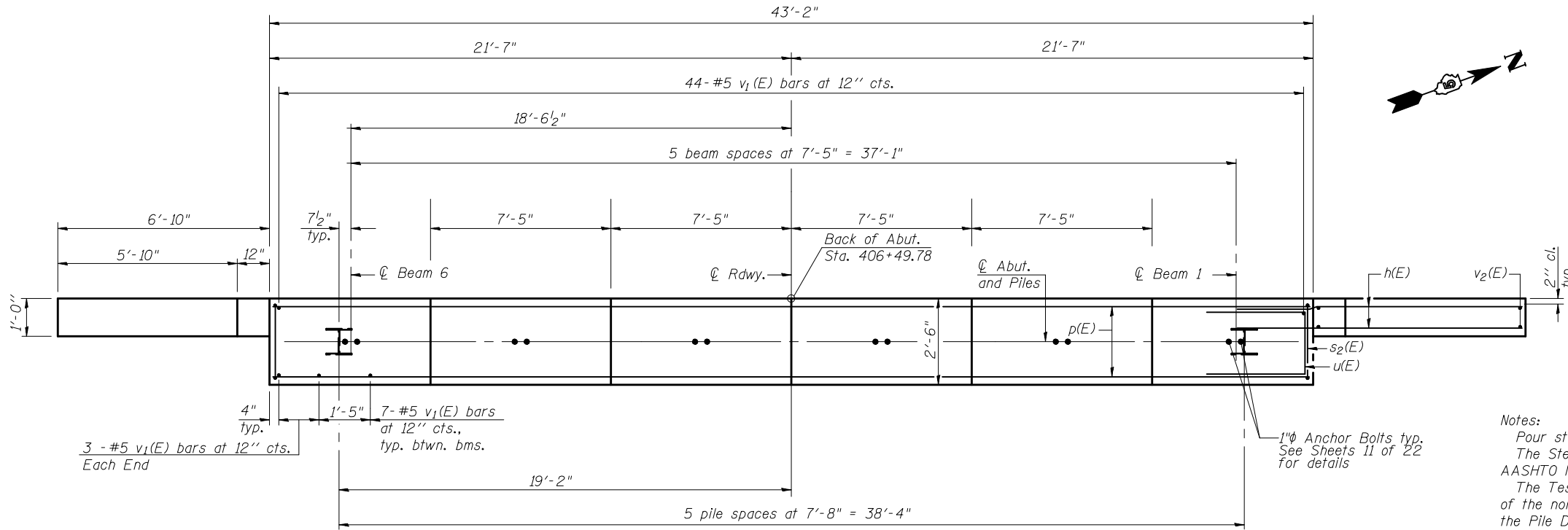
ELEVATION
(Looking West)



SEC. THRU ABUT..

PILE DATA

Type: HP 12x53
Nominal Required Bearing: 419 kips
Allowable Resistance Available: 140 kips
Est. Length: 71 ft.
No. Production Piles: 5
No. Test Piles: 1

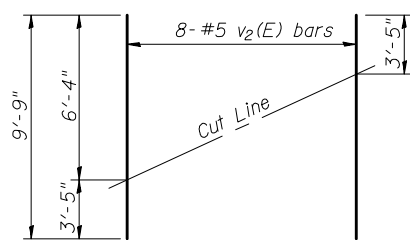


PLAN

Notes:
Pour steps monolithically with cap.
The Steel H Piles shall be according to AASHTO M270 Grade 50.
The Test Pile shall be driven to 110 percent of the nominal required bearing indicated in the Pile Data information.
Space reinforcement to miss anchor bolts.
All edges to have 3/4" chamfer except as noted.
For details of Bar Splicers, see sheet 16 of 22.
For details of piles and Concrete Encasement, see sheet 17 of 22.

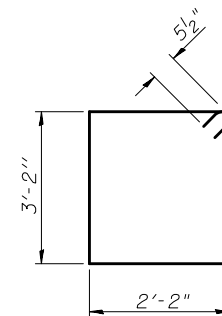
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#5	8'-8"	—
p(E)	6	#7	42'-10"	—
s2(E)	46	#5	11'-7"	□
u(E)	8	#6	10'-1"	—
v1(E)	85	#5	4'-4"	—
v2(E)	16	#5	9'-9"	—
Structure Excavation		Cu. Yd.		83.9
Concrete Structures		Cu. Yd.		17.3
Reinforcement Bars, Epoxy Coated		Pound		2040
Furnishing Steel Piles, 12x53		Foot		355
Driving Piles		Foot		355
Test Pile, HP 12x53		Each		1
Concrete Encasement		Cu. Yd.		2.1

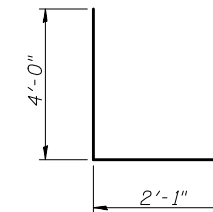


FIELD CUTTING DIAGRAM

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



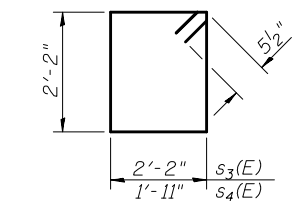
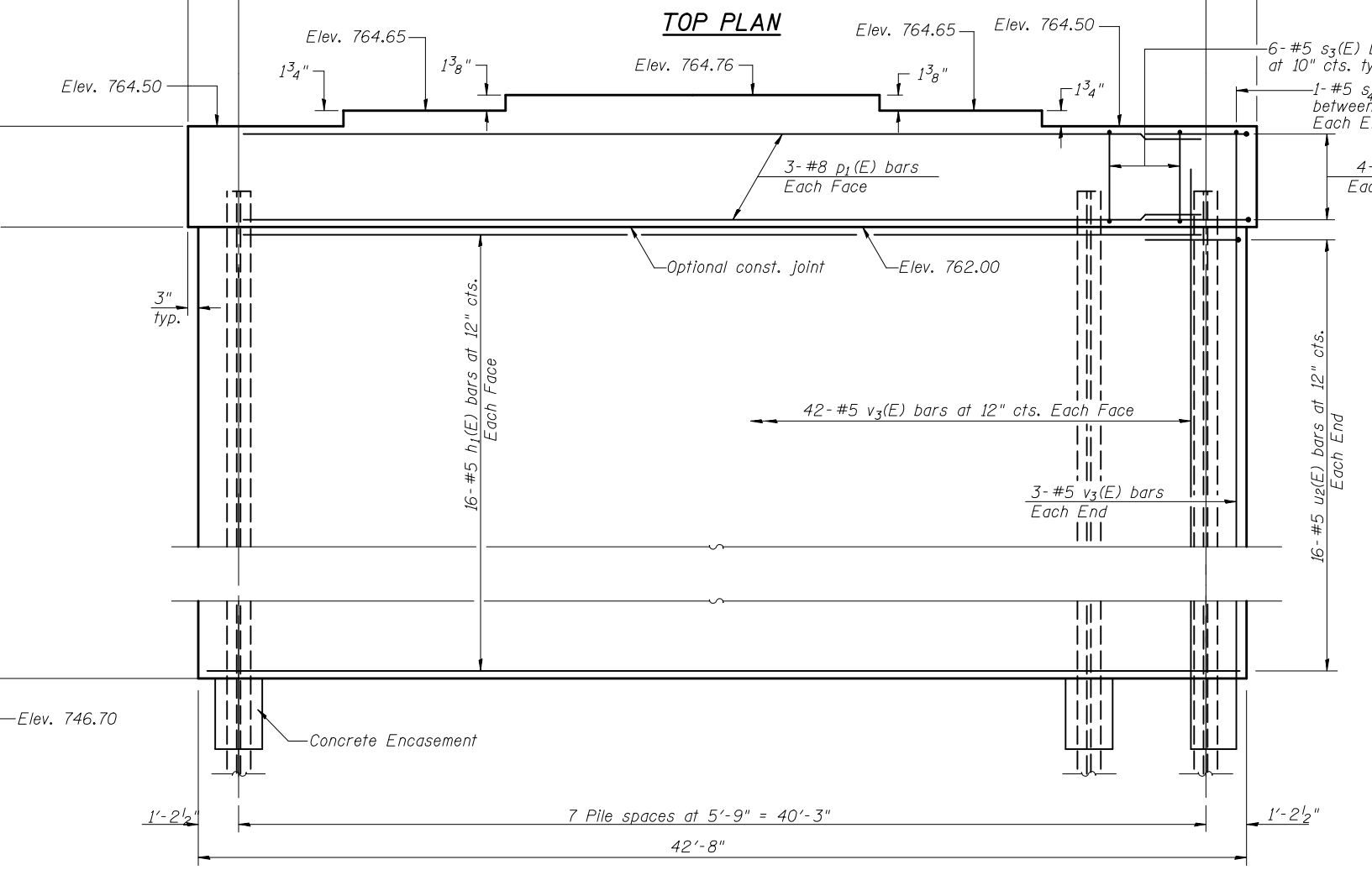
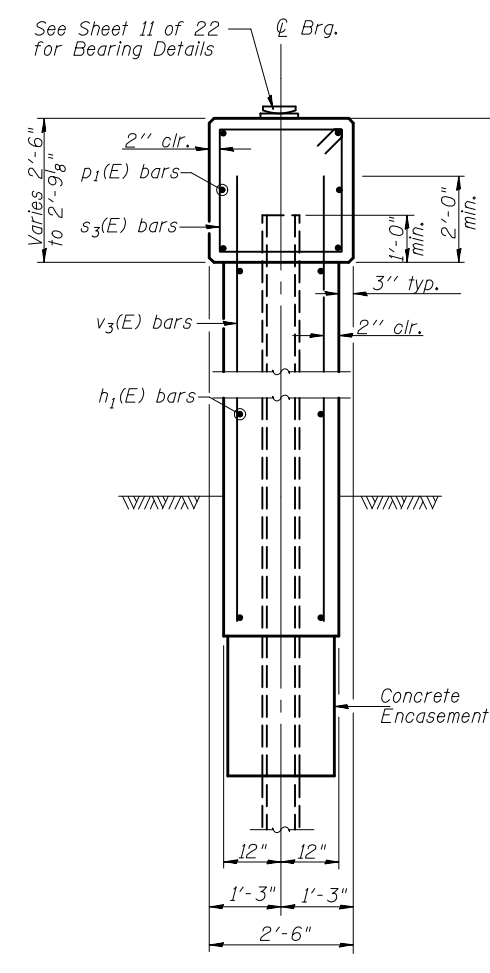
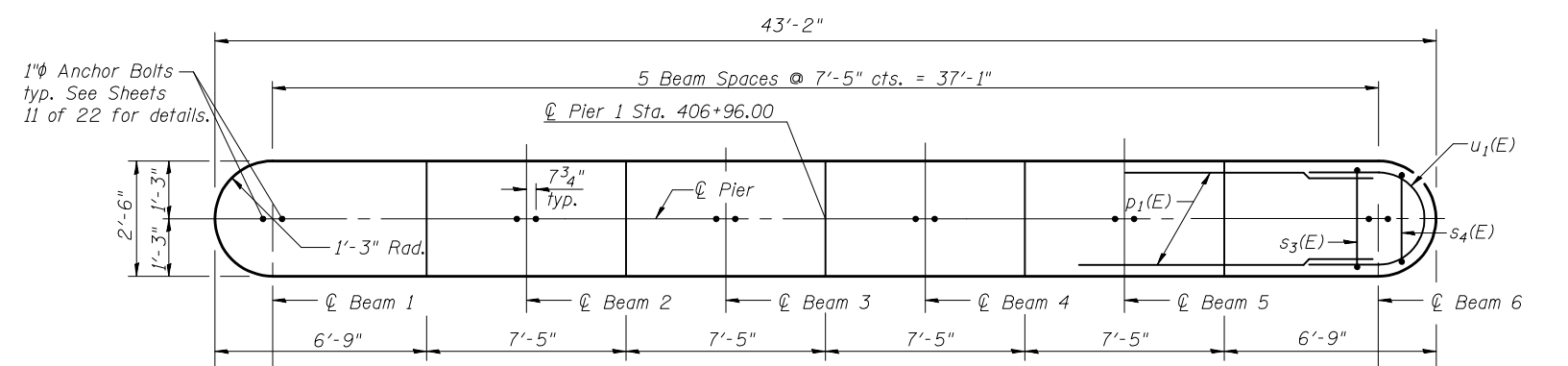
BAR s2(E)



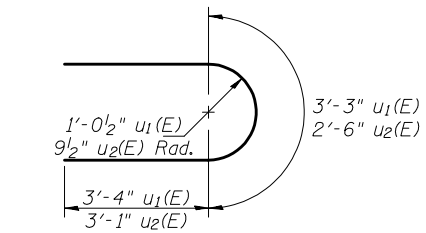
BAR u(E)

WEST ABUTMENT
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION 1(BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246

Contract #70517



BAR s3(E) & s4(E)



BARS u1(E) & u2(E)

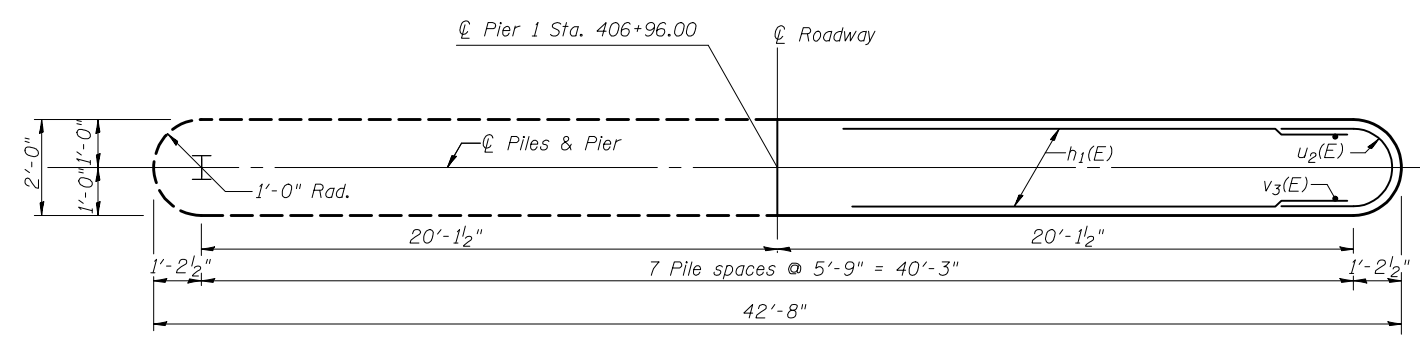
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	32	#5	40'-8"	—
p1(E)	6	#8	40'-8"	—
s3(E)	42	#5	9'-7"	□
s4(E)	2	#5	9'-1"	□
u1(E)	8	#6	9'-11"	U
u2(E)	32	#5	8'-8"	U
v3(E)	90	#5	17'-2"	—
Structure Excavation			Cu. Yd.	81.9
Concrete Structures			Cu. Yd.	58.3
Reinforcement Bars, Epoxy Coated			Pound	4470
Furnishing Steel Piles, 12x53			Foot	483
Driving Piles			Foot	483
Test Pile, HP 12x53			Each	1
Concrete Encasement			Cu. Yd.	2.8
Underwater Structure Excavation Protection, Location 2			Each	1

Notes:
Space reinforcement in cap to miss anchor bolts. Pour steps monolithically with cap.
The Steel H Piles shall be according to AASHTO M270 Grade 50.
The Test Pile shall be driven to 110 percent of the nominal required bearing indicated in the Pile Data information.
For details of piles and concrete encasement see sheet 17 of 22.

PILE DATA

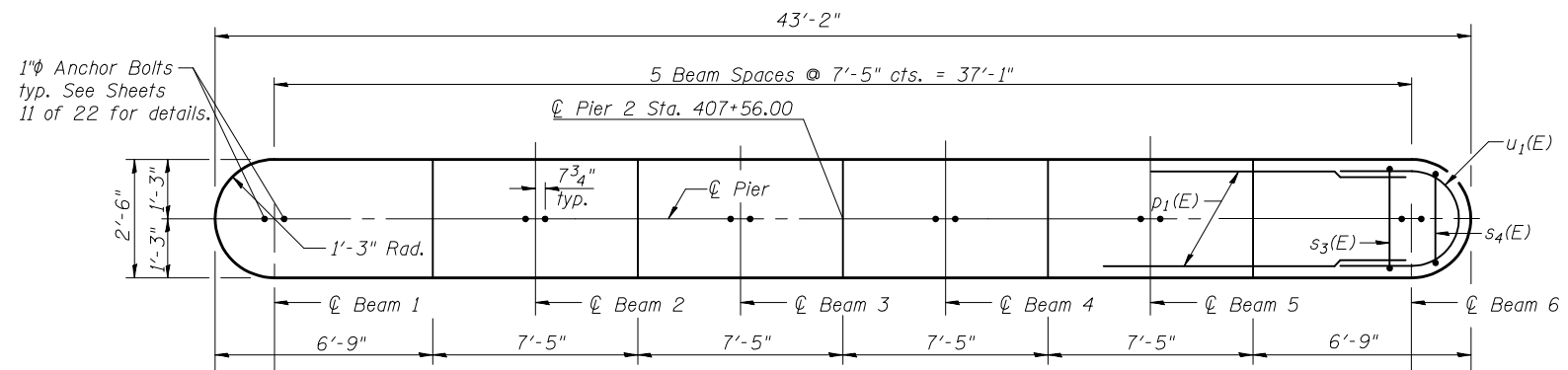
Type: Steel HP 12x53
Nominal Required Bearing: 419 kips
Allowable Resistance Available: 140 kips
Est. Length: 69 ft.
No. Production Piles: 7
No. Test Piles: 1



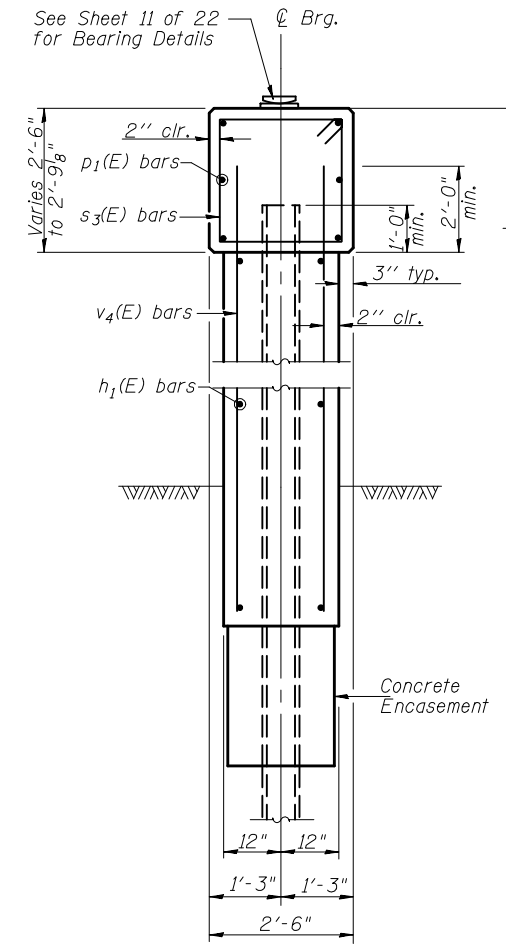
PILE LAYOUT & PIER PLAN

PIER 1
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION 1(BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246

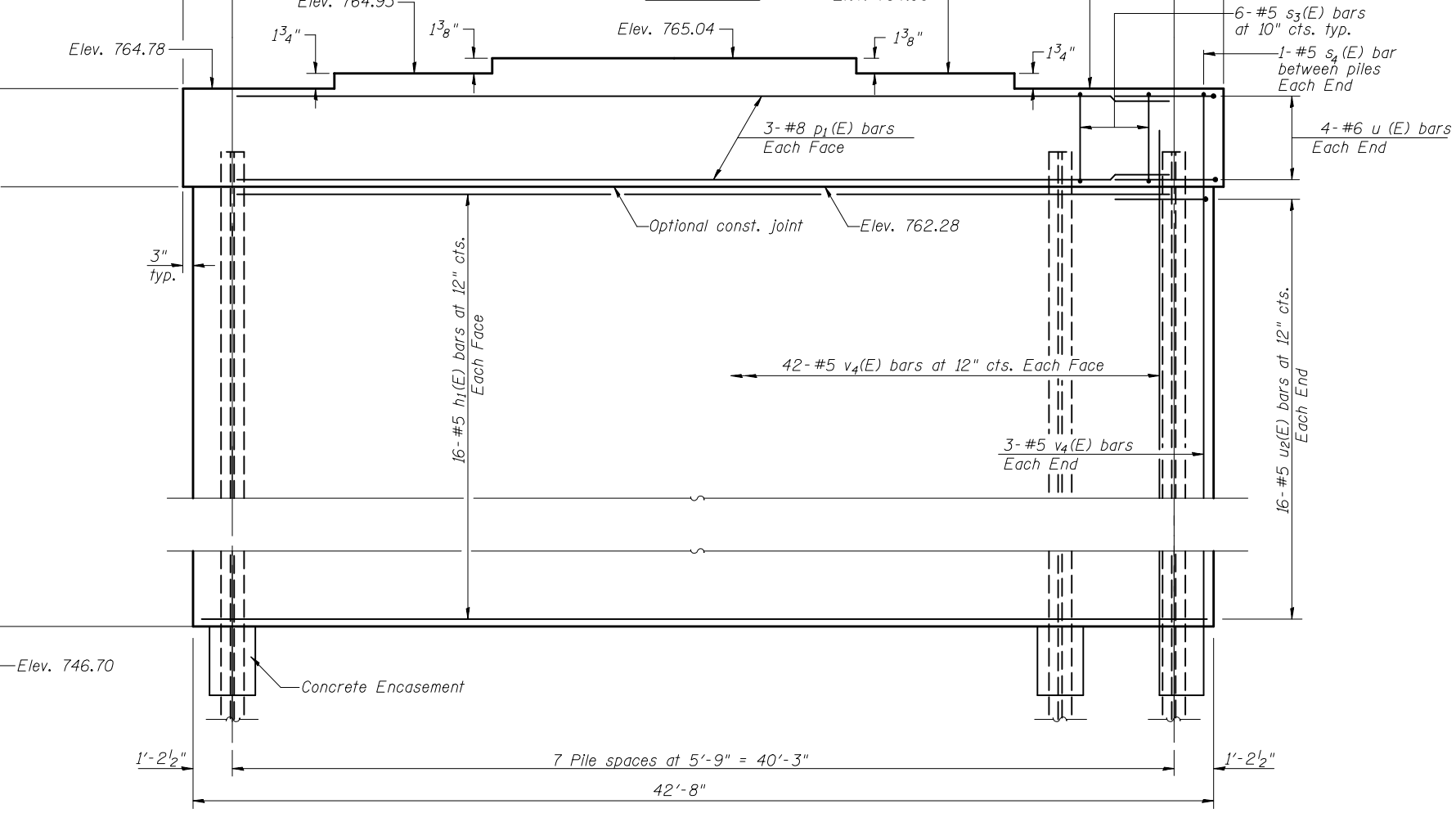
Contract #70517



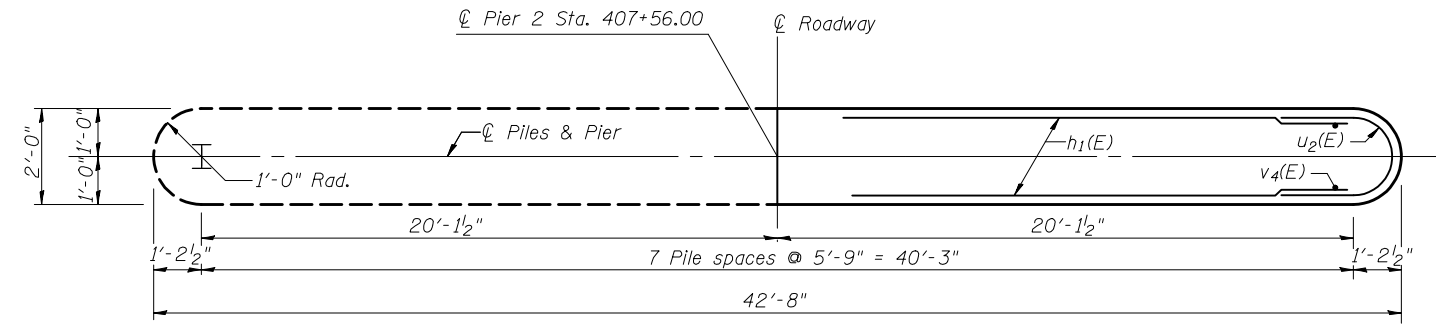
TOP PLAN



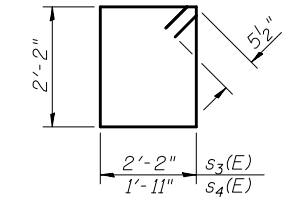
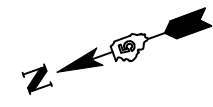
END VIEW



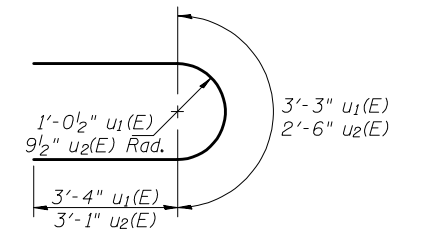
ELEVATION
(Looking East)



PILE LAYOUT & PIER PLAN



BAR s3(E) & s4(E)



BARS u1(E) & u2(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁ (E)	32	#5	40'-8"	—
d ₁ (E)	6	#8	40'-8"	—
s ₃ (E)	42	#5	9'-7"	□
s ₄ (E)	2	#5	9'-1"	□
u ₁ (E)	8	#6	9'-11"	U
u ₂ (E)	32	#5	8'-8"	U
v ₄ (E)	90	#5	17'-5"	—
Structure Excavation		Cu. Yd.	56.0	
Concrete Structures		Cu. Yd.	59.2	
Reinforcement Bars, Epoxy Coated		Pound	4500	
Furnishing Steel Piles, 12x53		Foot	483	
Driving Piles		Foot	483	
Test Pile, HP 12x53		Each	1	
Concrete Encasement		Cu. Yd.	2.8	
Underwater Structure Excavation Protection, Location 1		Each	1	

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 The Steel H Piles shall be according to AASHTO M270 Grade 50.
 The Test Pile shall be driven to 110 percent of the nominal required bearing indicated in the Pile Data information.
 For details of piles and concrete encasement see sheet 17 of 22.

PILE DATA

Type: Steel HP 12x53
 Nominal Required Bearing: 420 kips
 Allowable Resistance Available: 140 kips
 Est. Length: 69 ft.
 No. Production Piles: 7
 No. Test Piles: 1

PIER 2
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION 1(BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246

Contract #70517

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

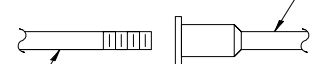
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

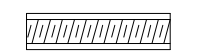
Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8

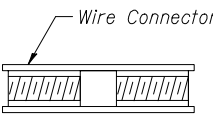
The diameter of this part is equal or larger than the diameter of bar spliced.



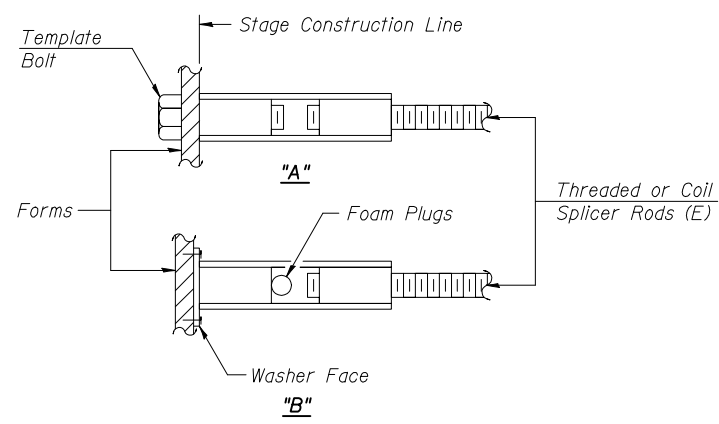
ROLLED THREAD DOWEL BAR



**** ONE PIECE**



WELDED SECTIONS

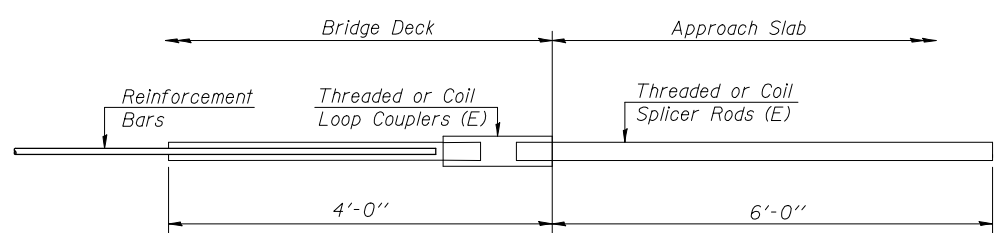


INSTALLATION AND SETTING METHODS

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

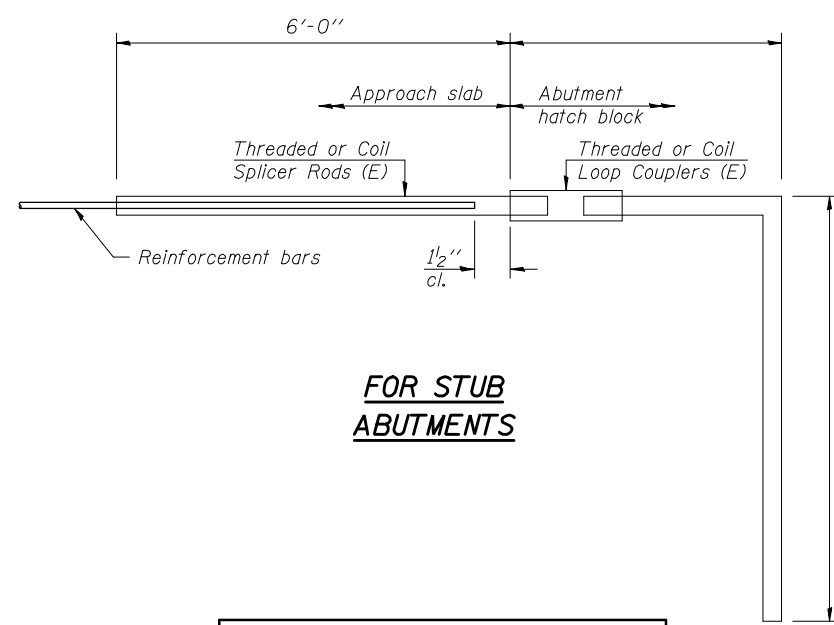
BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



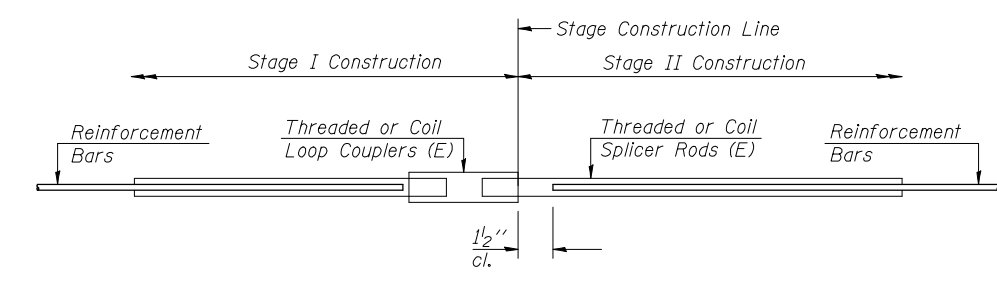
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 84



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



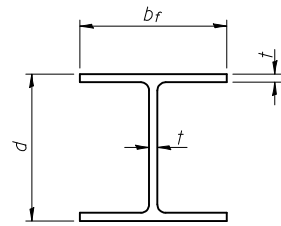
STANDARD

Bar Size	No. Assemblies Required	Location

BAR SPLICER ASSEMBLY DETAILS

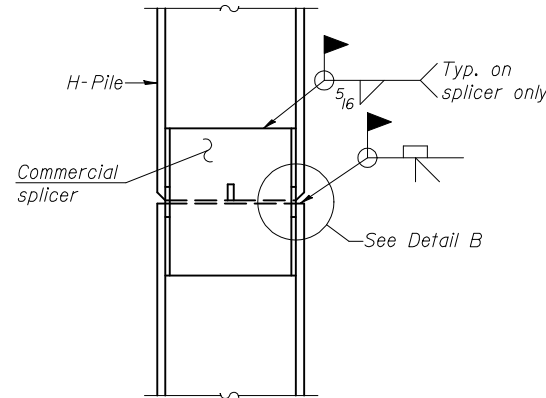
US. ROUTE 150
 OVER KICKAPOO CREEK
 FAU ROUTE 6406 SECTION 1(BR-2)
 MCLEAN COUNTY
 STATION 407+23.50
 STRUCTURE NO. 057-0246

Contract #70517

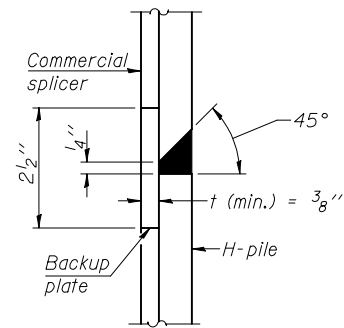


STEEL PILE TABLE

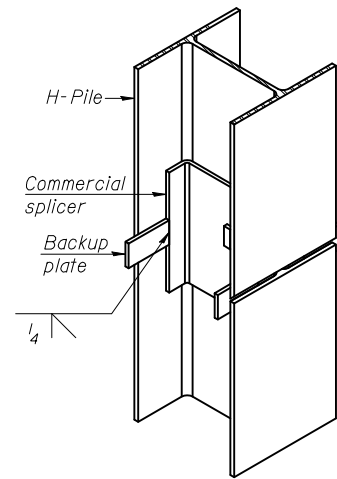
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



ELEVATION

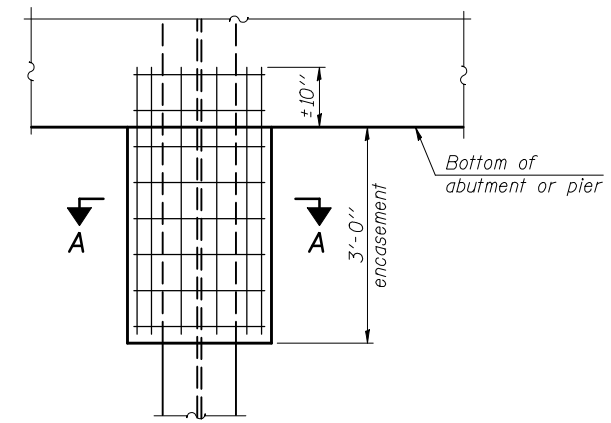


DETAIL "B"



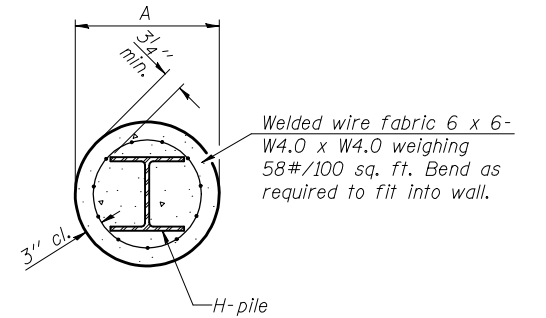
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



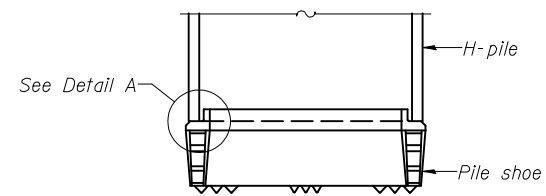
ELEVATION

PILE ENCASEMENT

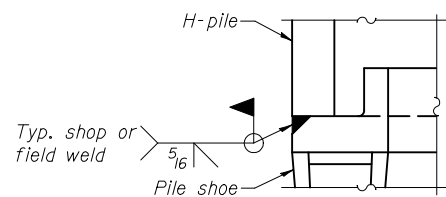


SECTION A-A

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

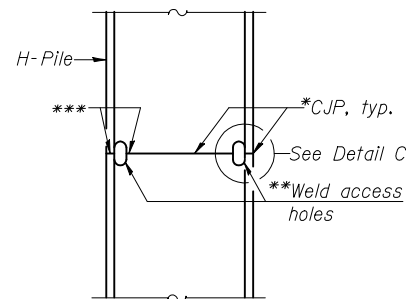


ELEVATION

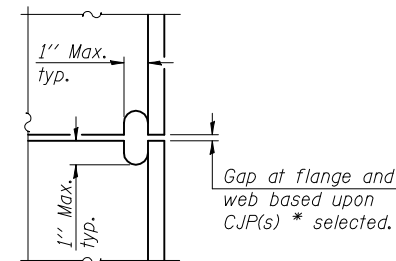


DETAIL A

H-PILE SHOE ATTACHMENT

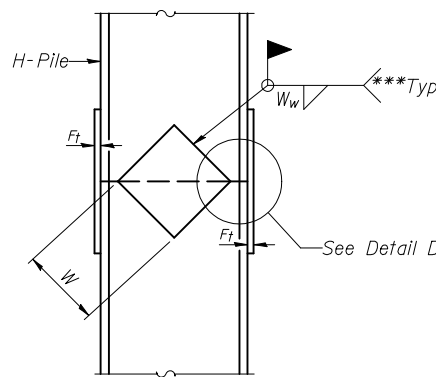


ELEVATION

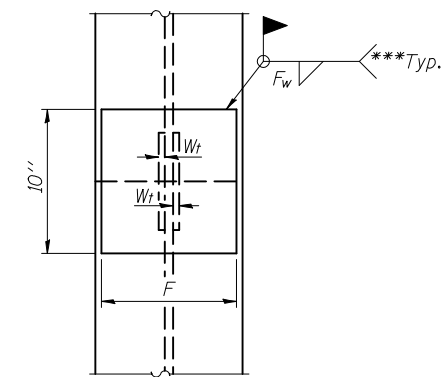


DETAIL C

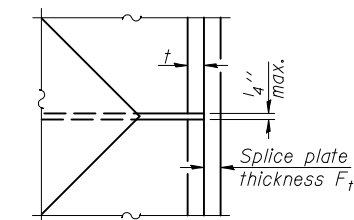
COMPLETE PENETRATION WELD SPLICE



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

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

H-PILE & ENCASEMENT DETAILS
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION 1(BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246

*Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.

**Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.

***Interrupt welds 1/4" from end of each pile.

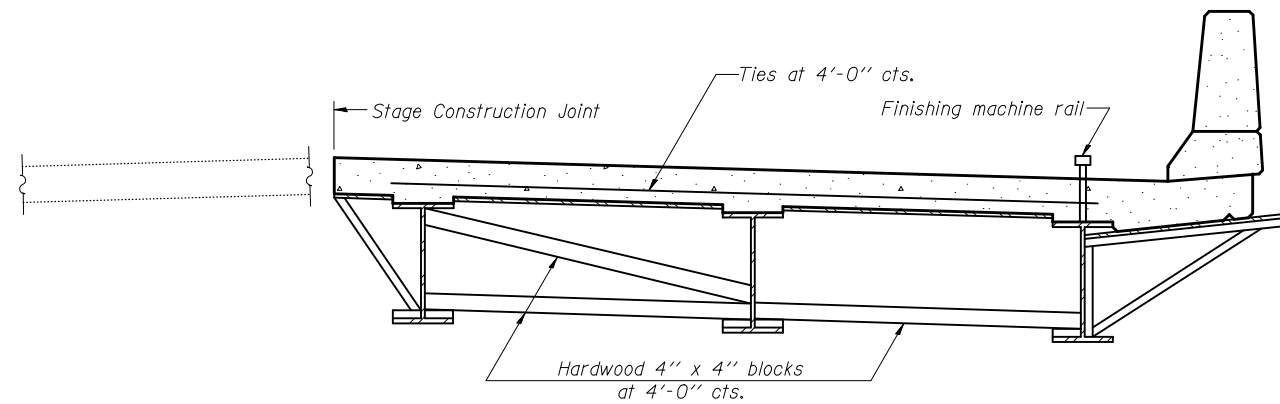
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 6406	1(BR-2)	MCLEAN	74	42
FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT-		

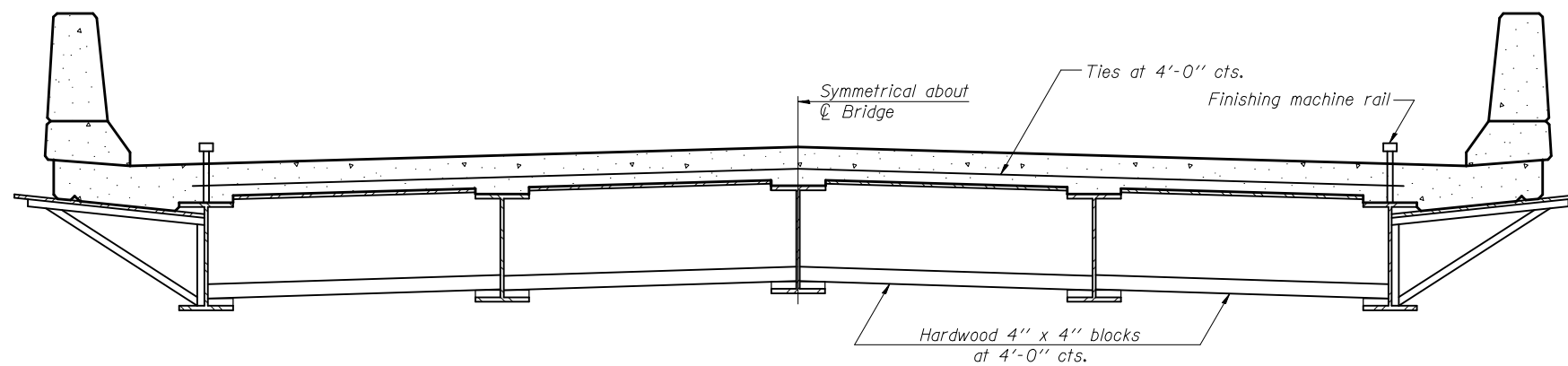
SHEET NO. 18
22 SHEETS

Contract #70517

When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.
The finishing machine rails shall be placed on the top flange of the exterior beams.
The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.
For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.



**FORM BRACES FOR
STAGE CONSTRUCTION**



**FORM BRACES FOR
STANDARD CONSTRUCTION**

CANTILEVER FORMING BRACKETS
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION 1(BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246



SOIL BORING LOG

Page 1 of 2

Date 10/19/78

ROUTE FAU 6406 (US 150) DESCRIPTION ROUTE 150 OVER KICKAPOO CREEK LOGGED BY W. PEARCE
 SECTION 1(BR-2) LOCATION SEC. TWP. RNG.
 COUNTY McLean DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D E P T H (ft)	B L O W S (6")	U N C O N F I D E N C E D S T R I C T Q u a n t i t y (tsf)	M O D E L S I S T R I C T Q u a n t i t y (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.
057-0181	407+38					750.2						
SOFT DARK BROWN SILTY CLAY												
			2	0.8	29							
VERY SOFT GRAYISH BROWN CLAY LOAM						750.7						
			3	0.1	23							
VERY SOFT DARK BROWN CLAY LOAM (MUCK)						748.2						
			10	0.0	34							
DENSE GRAYISH BROWN SANDY GRAVEL						745.7						
			86									
MEDIUM GRAY SAND & GRAVEL						743.2						
			17	4.2	13							
			21	6.8	12							
			29	6.4	11							
DENSE GRAY SAND & GRAVEL						735.7						

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 187 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2

Date 10/19/78

ROUTE FAU 6406 (US 150) DESCRIPTION ROUTE 150 OVER KICKAPOO CREEK LOGGED BY W. PEARCE
 SECTION 1(BR-2) LOCATION SEC. TWP. RNG.
 COUNTY McLean DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

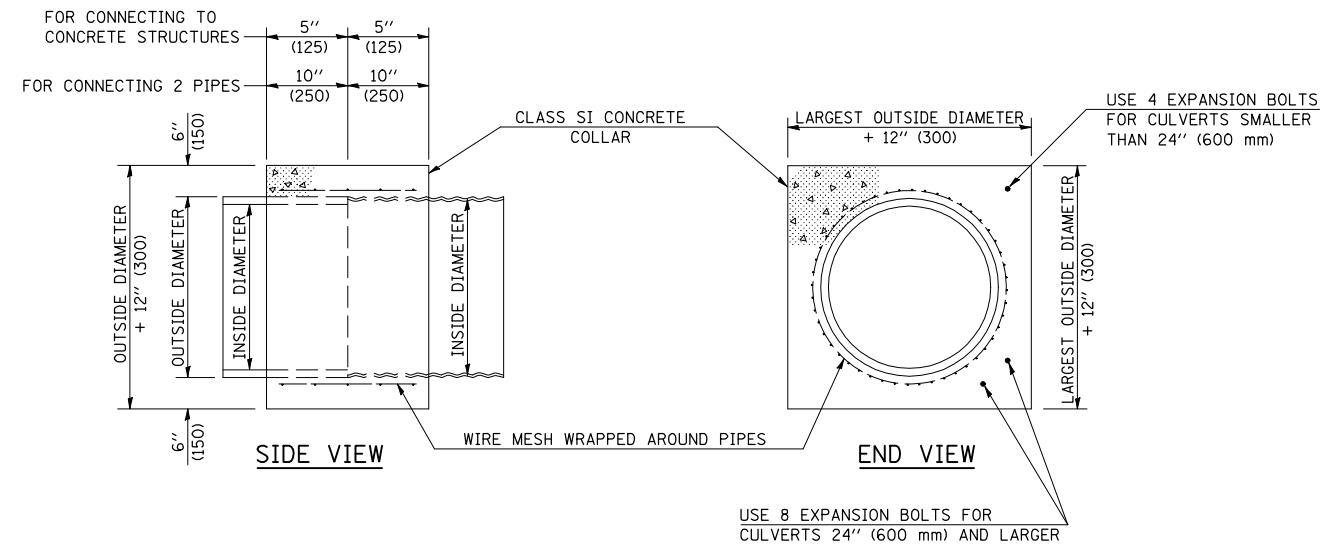
STRUCT. NO.	Station	D E P T H (ft)	B L O W S (6")	U N C O N F I D E N C E D S T R I C T Q u a n t i t y (tsf)	M O D E L S I S T R I C T Q u a n t i t y (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.
057-0181	407+38					750.2						
HARD GRAY CLAY LOAM TILL (continued)												
			42	5.8	11							
			44	5.8	12							
			34	4.9	12							
			73	8.5	10							
			61	4.1	11							
End of Boring						703.7						

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 187 (Rev. 8-99)

SOIL BORINGS
US. ROUTE 150
OVER KICKAPOO CREEK
FAU ROUTE 6406 SECTION 1(BR-2)
MCLEAN COUNTY
STATION 407+23.50
STRUCTURE NO. 057-0246

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	47
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CONCRETE COLLAR

STA. 406+60.18 RT 42" DIA.
STA. 409+41.00 RT 42" DIA.

GENERAL NOTES

1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. WHEN CONCRETE COLLARS ARE USED TO CONNECT PIPES OF DIFFERENT OUTSIDE DIAMETERS, THE CONCRETE COLLAR SHALL BE FORMED USING THE LARGEST OUTSIDE DIAMETER (SEE END VIEW).
3. THE WIRE MESH SHALL WEIGH NOT LESS THAN 54#/100 SQ. FT. (2.63 kg/m²).
4. WHEN CONCRETE COLLARS ARE CONSTRUCTED ADJACENT TO AN EXISTING CONCRETE STRUCTURE (HEADWALLS, ETC.) EXPANSION BOLTS, SHALL BE USED AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, FOR EXPANSION BOLTS OF THE SIZE SPECIFIED IN THE PLANS.
5. CONCRETE COLLARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, PER CUBIC YARD (CUBIC METER), FOR CONCRETE COLLARS INCLUDING ALL MATERIAL AND LABOR SPECIFIED TO COMPLETE THE WORK IN PLACE.

QUANTITIES FOR CONCRETE PIPES	
INSIDE DIAMETER OF PIPE	ESTIMATED CLASS SI CONCRETE REQUIRED
INCH (mm)	20" (500 mm) WIDTH CU. YD. (m ³)
4" (100)	0.14 (0.11)
6" (150)	0.16 (0.12)
8" (200)	0.19 (0.14)
10" (250)	0.22 (0.17)
12" (300)	0.25 (0.19)
15" (375)	0.30 (0.23)
18" (450)	0.35 (0.27)
24" (600)	0.45 (0.35)
30" (750)	0.57 (0.43)
36" (900)	0.69 (0.53)
42" (1050)	0.83 (0.63)
48" (1200)	0.97 (0.74)
54" (1350)	1.12 (0.86)
60" (1500)	1.28 (0.98)

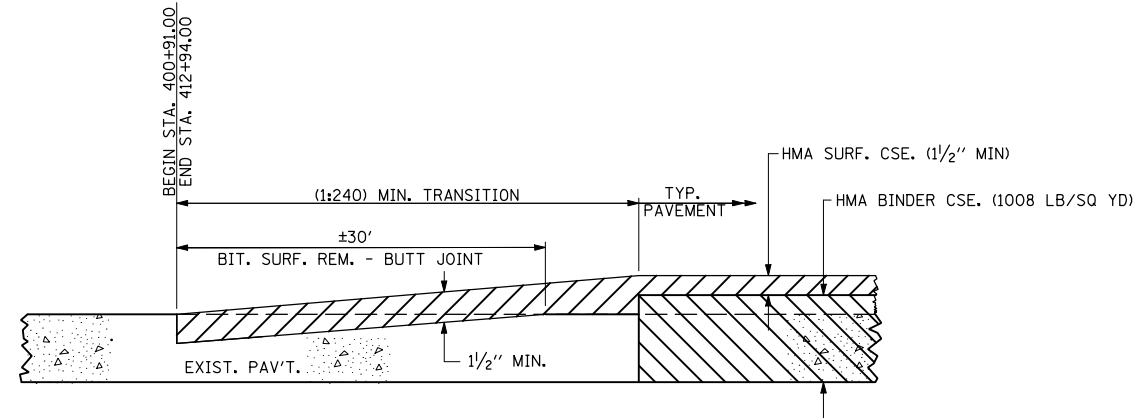
QUANTITIES FOR METAL PIPES	
INSIDE DIAMETER OF PIPE	ESTIMATED CLASS SI CONCRETE REQUIRED
INCH (mm)	20" (500 mm) WIDTH CU. YD. (m ³)
4" (100)	0.12 (0.09)
6" (150)	0.14 (0.11)
8" (200)	0.16 (0.12)
10" (250)	0.19 (0.14)
12" (300)	0.21 (0.16)
15" (375)	0.25 (0.19)
18" (450)	0.29 (0.22)
24" (600)	0.38 (0.29)
30" (750)	0.47 (0.36)
36" (900)	0.59 (0.45)
42" (1050)	0.69 (0.53)
48" (1200)	0.81 (0.62)
54" (1350)	0.93 (0.71)
60" (1500)	1.05 (0.81)

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

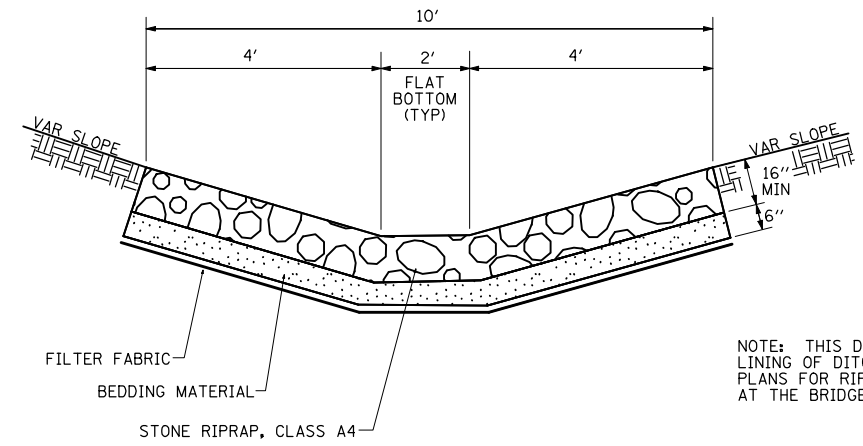
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p align="center">CONCRETE COLLAR DETAIL</p> <p>SCALE: VERT. DRAWN BY HORIZ. CHECKED BY DATE</p>

PLOT DATE = 8/21/2008
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PLOT SCALE = 1/8"=1'-0" / IN.
USER NAME = stults,j

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	48
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BUTT JOINT DETAIL



NOTE: THIS DETAIL IS FOR RIP RAP LINING OF DITCHES. SEE BRIDGE PLANS FOR RIP RAP PROTECTION AT THE BRIDGE.

DETAIL OF STONE RIPRAP, CLASS A4

PLOT DATE = 8/21/2008
 FILE NAME = c:\projects\6593706 (v8)\11.01.2007 submittal\details.dgn
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 USER NAME = stults,j

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

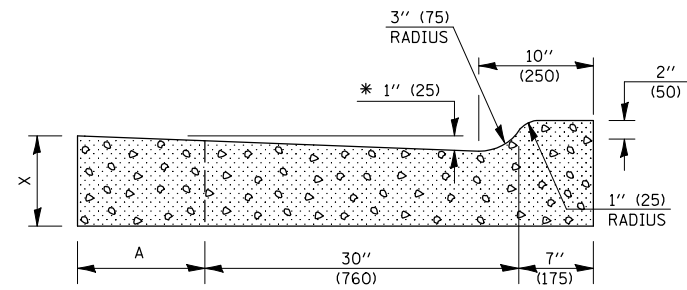
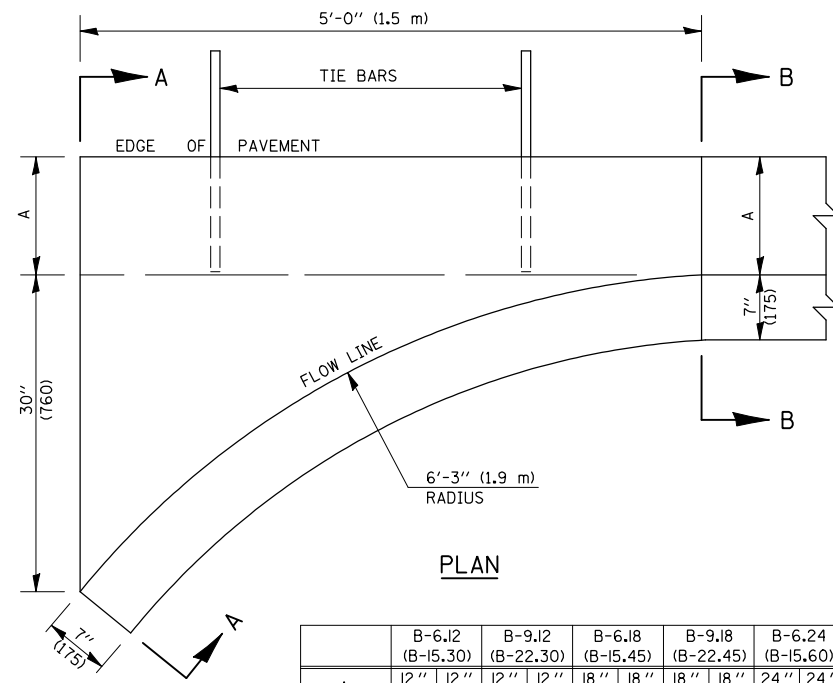
ROADWAY DETAILS

SCALE: VERT.
 HORIZ.
 DATE

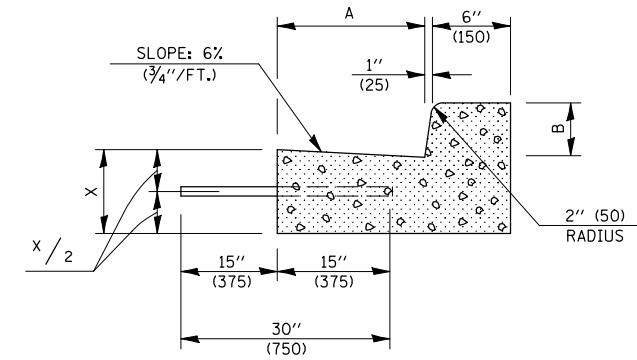
DRAWN BY
 CHECKED BY

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	49
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL OF SPECIAL INLET FOR COMBINATION CONCRETE CURB AND GUTTER (BARRIER CURB)



SECTION A-A



SECTION B-B

* INCREASE TO 2" (50 mm) WHERE IN THE PLANS IT IS SPECIFIED THAT THESE SPECIAL INLETS ARE TO BE CONSTRUCTED AS OUTLETS. ALL OUTLET LOCATIONS WILL BE CONFIRMED BY THE ENGINEER.

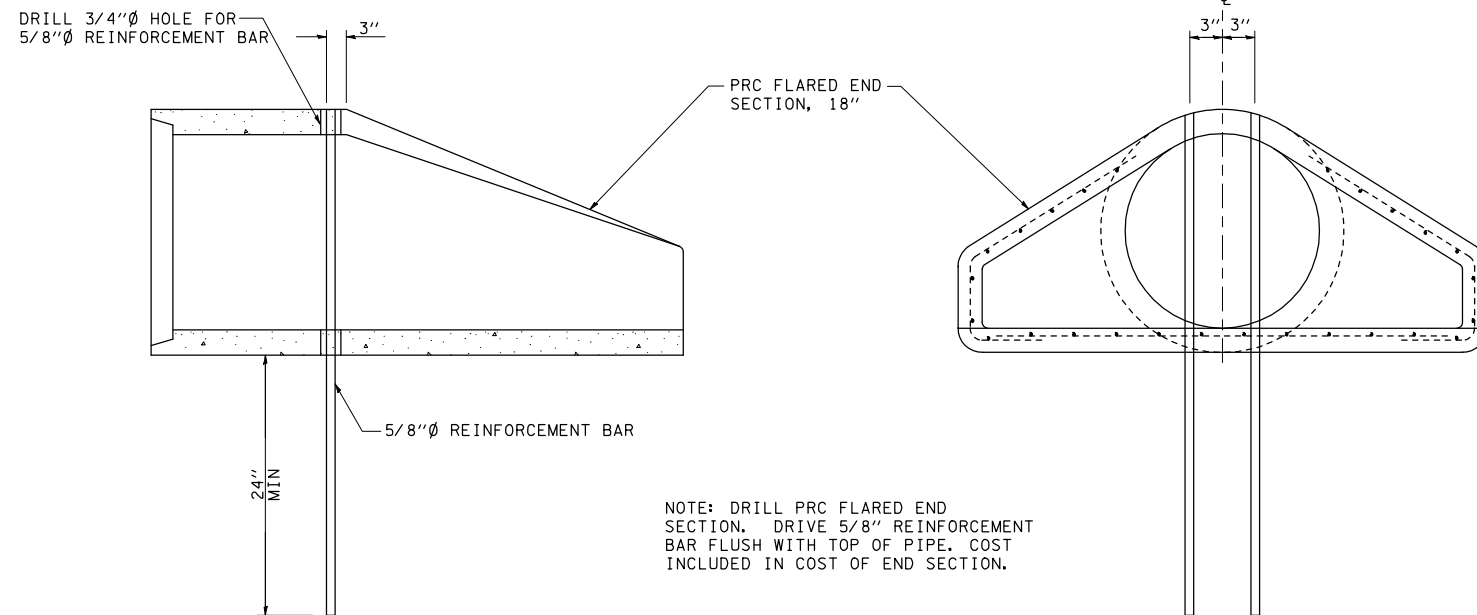
GENERAL NOTES

1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. TIE BARS SHALL BE NO. 6 (NO. 20) AT 24" (600 mm) CENTERS UNLESS OTHERWISE SHOWN. SPECIAL INLETS AND OUTLETS SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.
3. TIE BARS SHOWN ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL TO CLASS SI CONCRETE (OUTLET).
4. WHEN SPECIAL INLET IS CONSTRUCTED ADJACENT TO FLEXIBLE PAVEMENT, THE TIE BARS SHALL BE OMITTED AND ALL CONSTRUCTION JOINTS SHALL BE PROVIDED WITH A DOWEL BAR CONFORMING TO ARTICLE 1006.11(b).
5. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU. YD. (m³) FOR CLASS SI CONCRETE (OUTLET) WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

	B-6.12 (B-15.30)	B-9.12 (B-22.30)	B-6.18 (B-15.45)	B-9.18 (B-22.45)	B-6.24 (B-15.60)	B-9.24 (B-22.60)
A	12" (300)	12" (300)	12" (300)	18" (450)	18" (450)	24" (600)
B	6" (150)	6" (150)	9" (225)	9" (225)	6" (150)	9" (225)
X	9" (225)	10" (250)	9" (225)	10" (250)	9" (225)	10" (250)
CU. YD. (m ³)	0.37 (0.28)	0.42 (0.32)	0.38 (0.29)	0.42 (0.32)	0.44 (0.34)	0.49 (0.37)
CLASS SI CONCRETE (OUTLET)						

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DETAIL OF PRECAST REINFORCED CONCRETE FLARED END SECTION, 18"



NOTE: DRILL PRC FLARED END SECTION. DRIVE 5/8" REINFORCEMENT BAR FLUSH WITH TOP OF PIPE. COST INCLUDED IN COST OF END SECTION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS

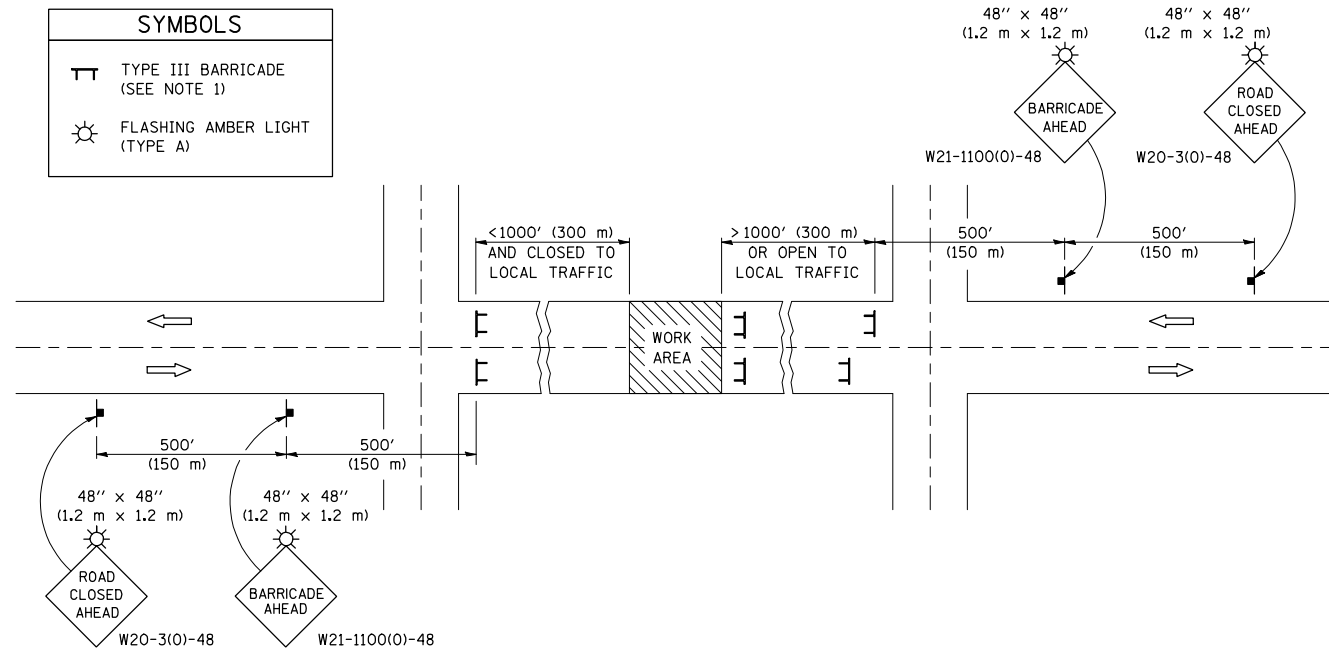
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DRAWN BY CHECKED BY

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USER NAME = stults,j

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	50
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

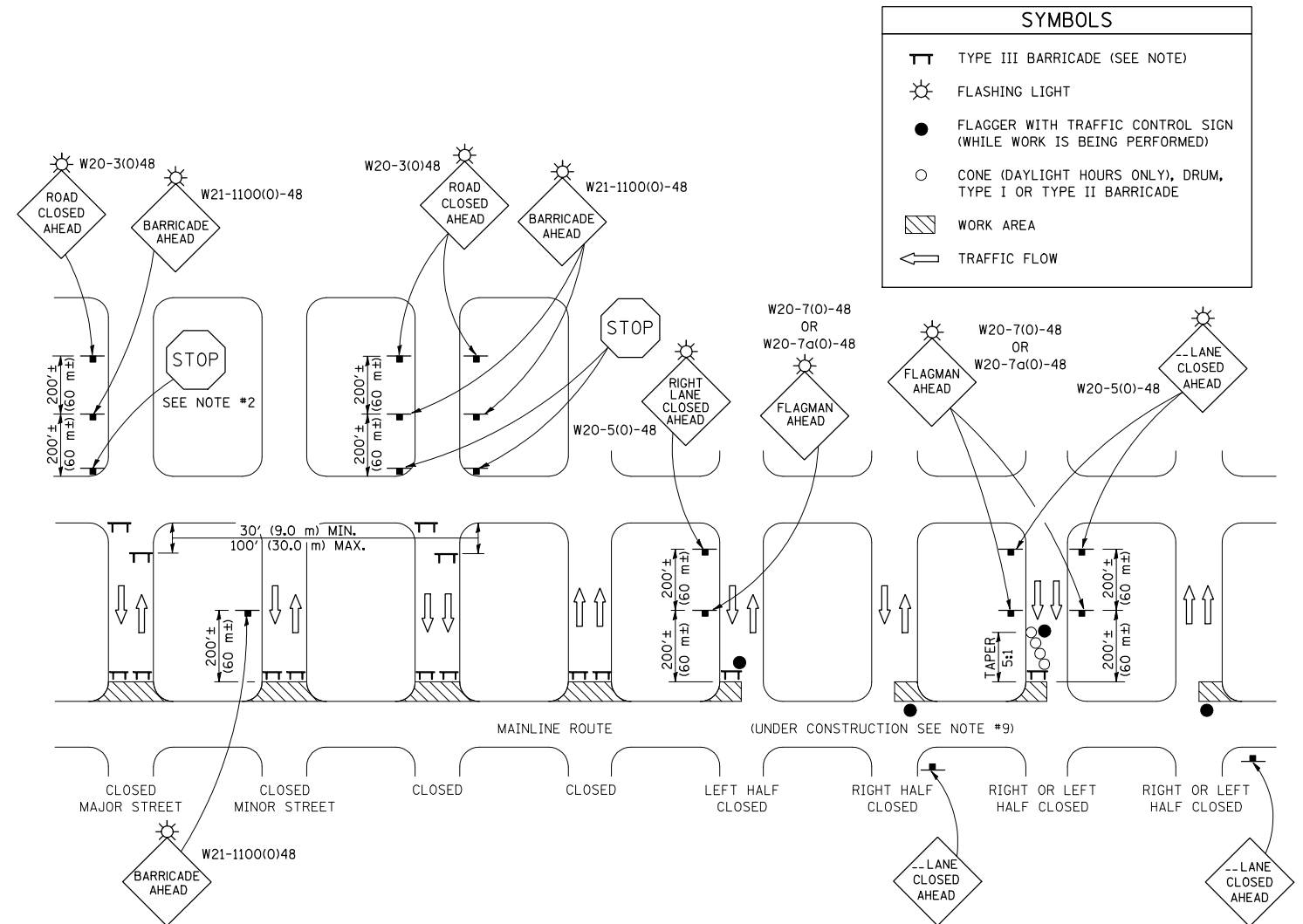
ROAD CLOSURE



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TYPE III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SIDEROAD / STREET CLOSURE



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS PAY ITEMS INVOLVING THE RECONSTRUCTION OF ALL APPLICABLE SIDE STREETS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING LIGHT
	FLAGGER WITH TRAFFIC CONTROL SIGN (WHILE WORK IS BEING PERFORMED)
	CONE (DAYLIGHT HOURS ONLY), DRUM, TYPE I OR TYPE II BARRICADE
	WORK AREA
	TRAFFIC FLOW

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DEVICES (ROAD & SIDEROAD / STREET CLOSURES)

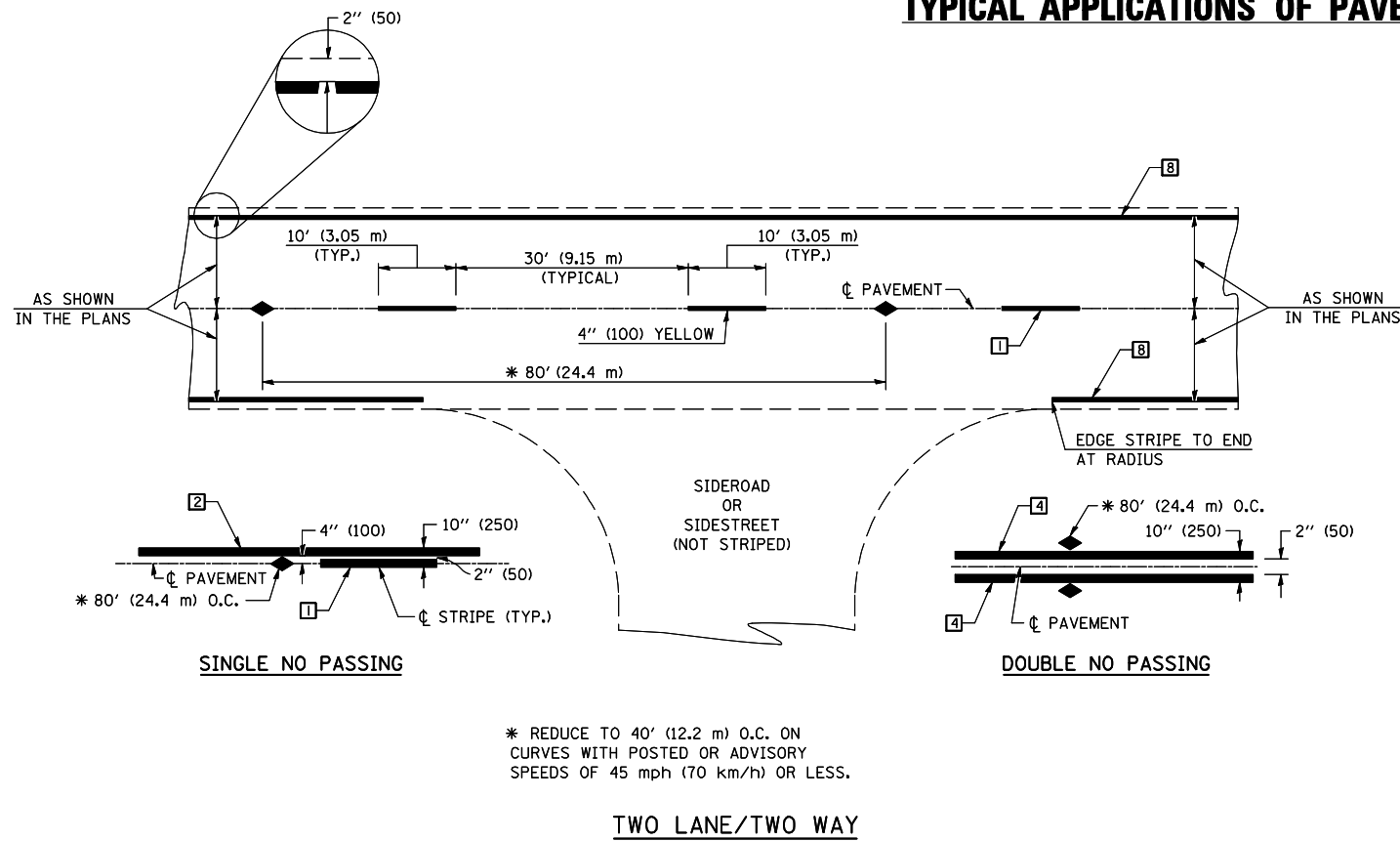
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Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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 USER NAME = stults,j

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	51
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS



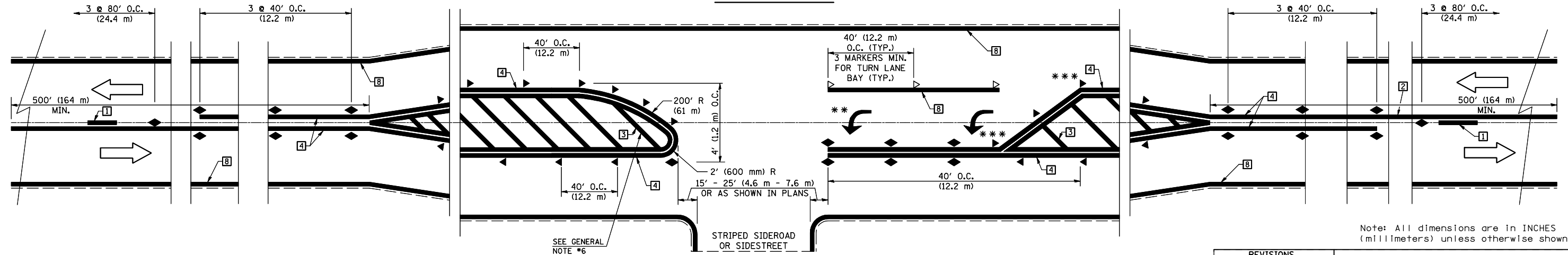
TYPICAL PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RURAL LEFT TURN



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

*** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

** TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

SHEET 1 OF 4

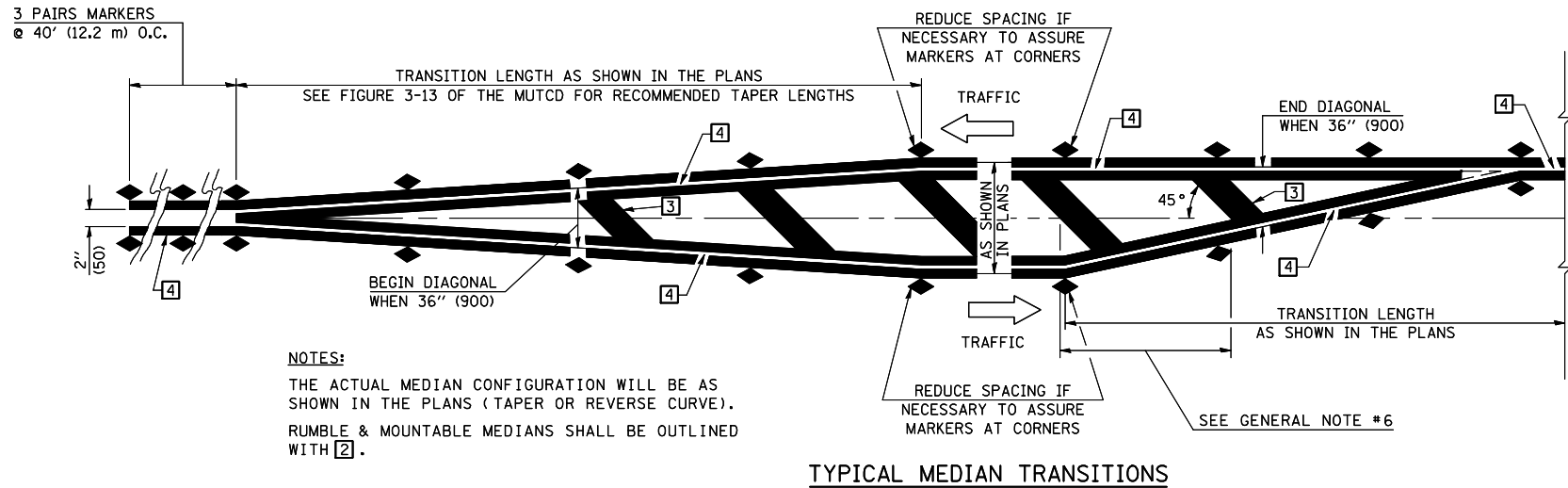
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DRAWN BY / CHECKED BY

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 PLOT SCALE = 1/8" = 1' / IN.
 USER NAME = stults,j

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	53
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS

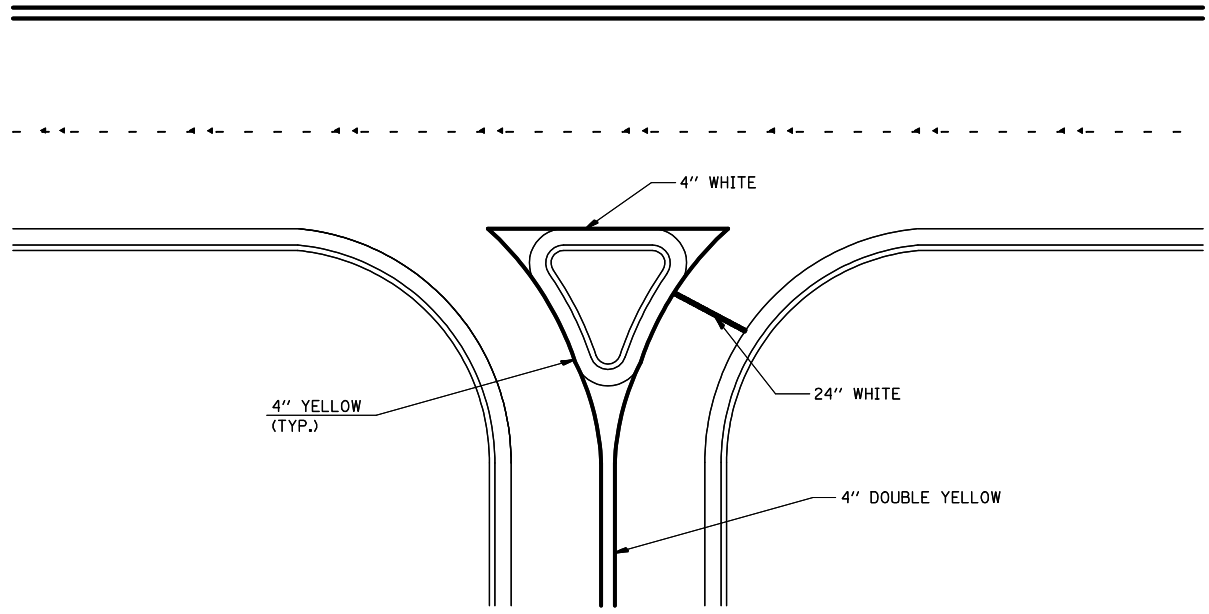


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH 2.

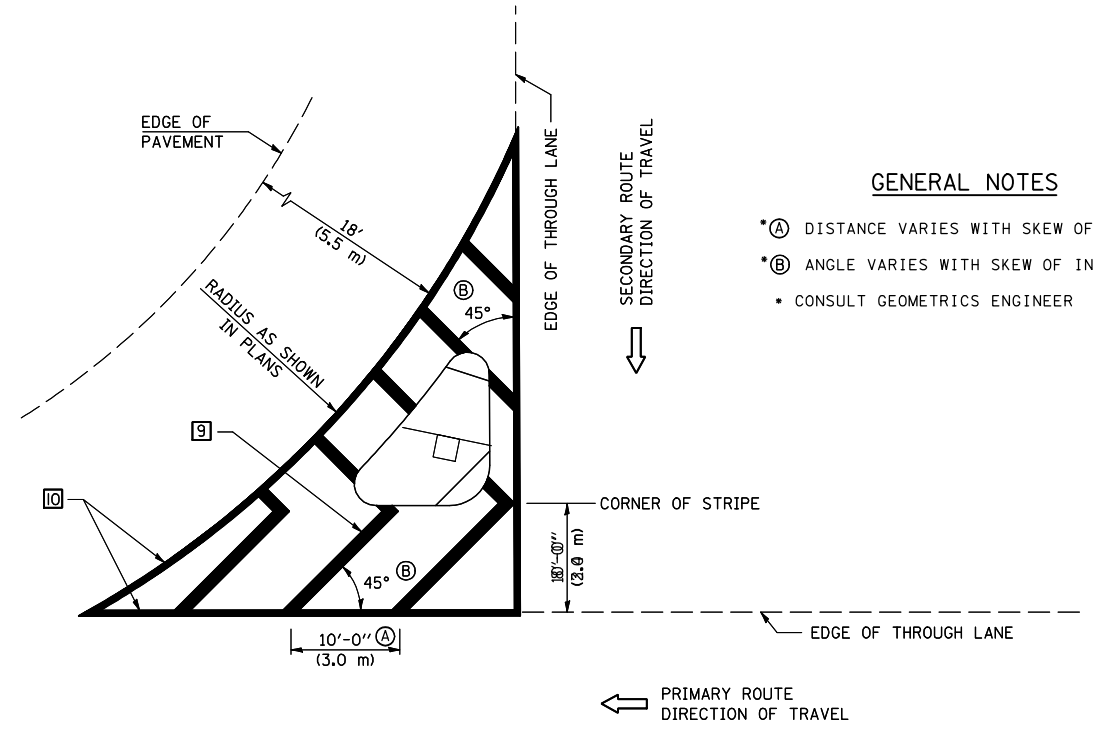
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
 < 30 MPH USE 15' (< 50 km/h USE 4.5 m)
 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
 > 45 MPH USE 30' (> 75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



GENERAL NOTES

- (A) DISTANCE VARIES WITH SKEW OF INTERSECTION.
- (B) ANGLE VARIES WITH SKEW OF INTERSECTION.
- CONSULT GEOMETRICS ENGINEER

ISLAND

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

REVISIONS	
NAME	DATE

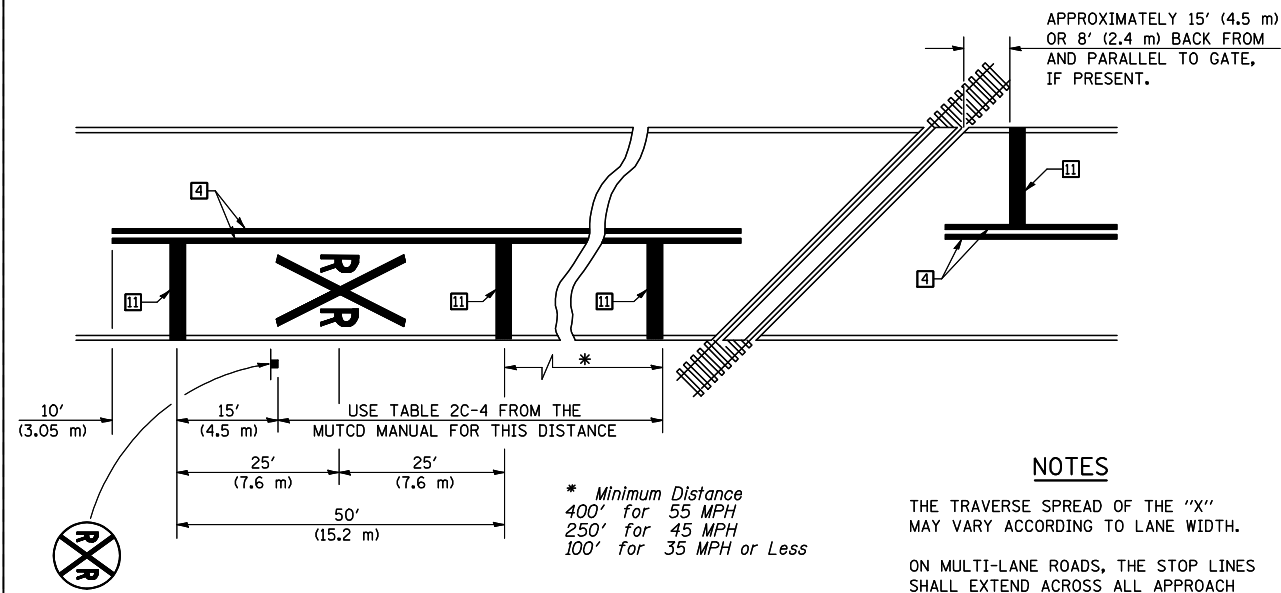
ILLINOIS DEPARTMENT OF TRANSPORTATION
 PAVEMENT MARKING DETAILS
 SHEET 3 OF 4

SCALE: VERT. / HORIZ.
 DATE: / / DRAWN BY: / CHECKED BY: /

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 USER NAME = stults,j

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	54
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

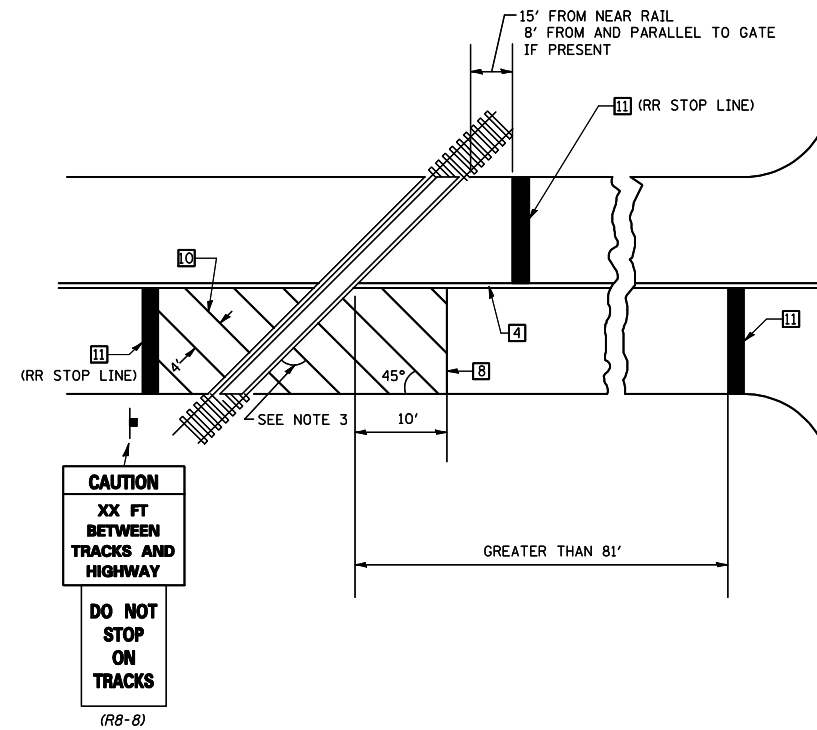
NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

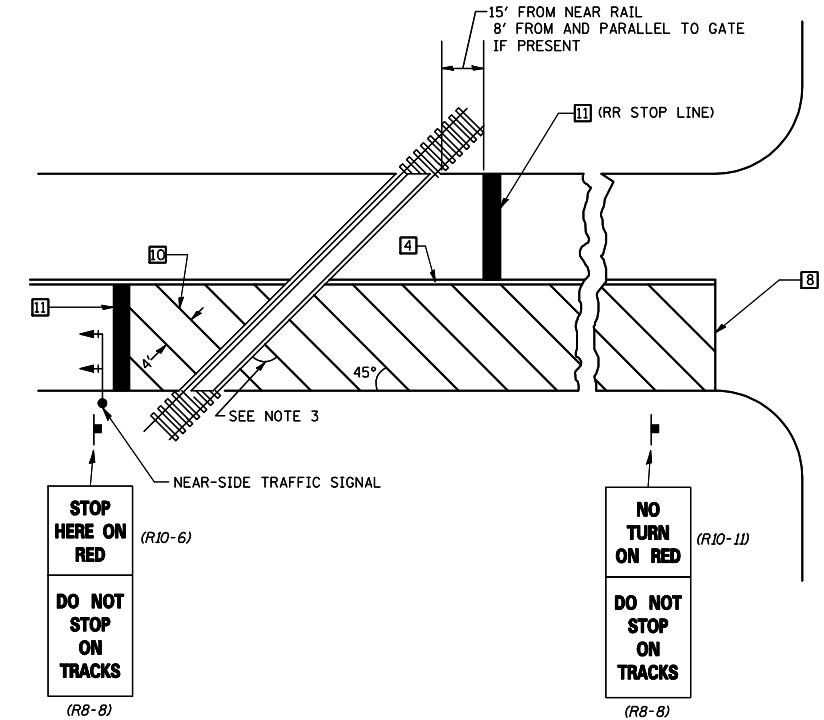
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



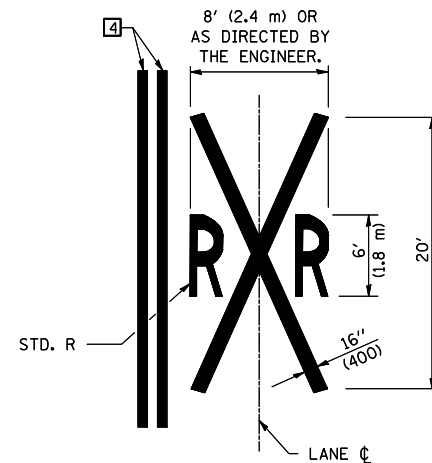
SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

NOTES

SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.

EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.

WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS SHEET 4 OF 4

SCALE: VERT. HORIZ. DATE

DRAWN BY CHECKED BY

PLOT DATE = 8/21/2008
 FILE NAME = c:\projects\6593706 (v8)\11.01.2007 submittal\details.dgn
 PLOT SCALE = 1/8"=1'-0" / IN.
 USER NAME = stults,j

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	55
STA. 400+50.00		TO STA. 401+00.00		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

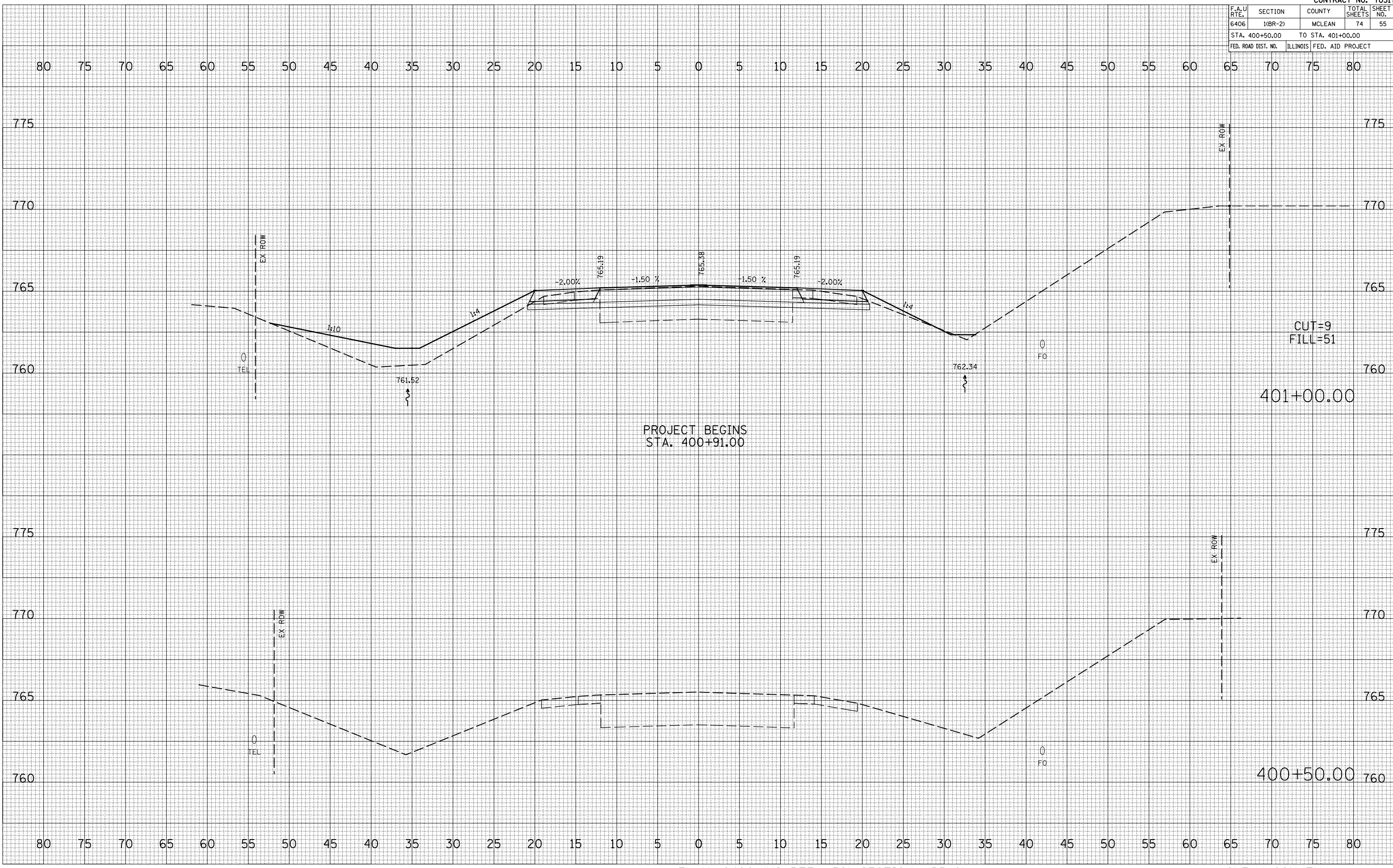
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BY	DATE

NO.	DATE	BY	DESCRIPTION

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 USER NAME = stuller



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	56
STA. 401+50.00		TO STA. 401+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

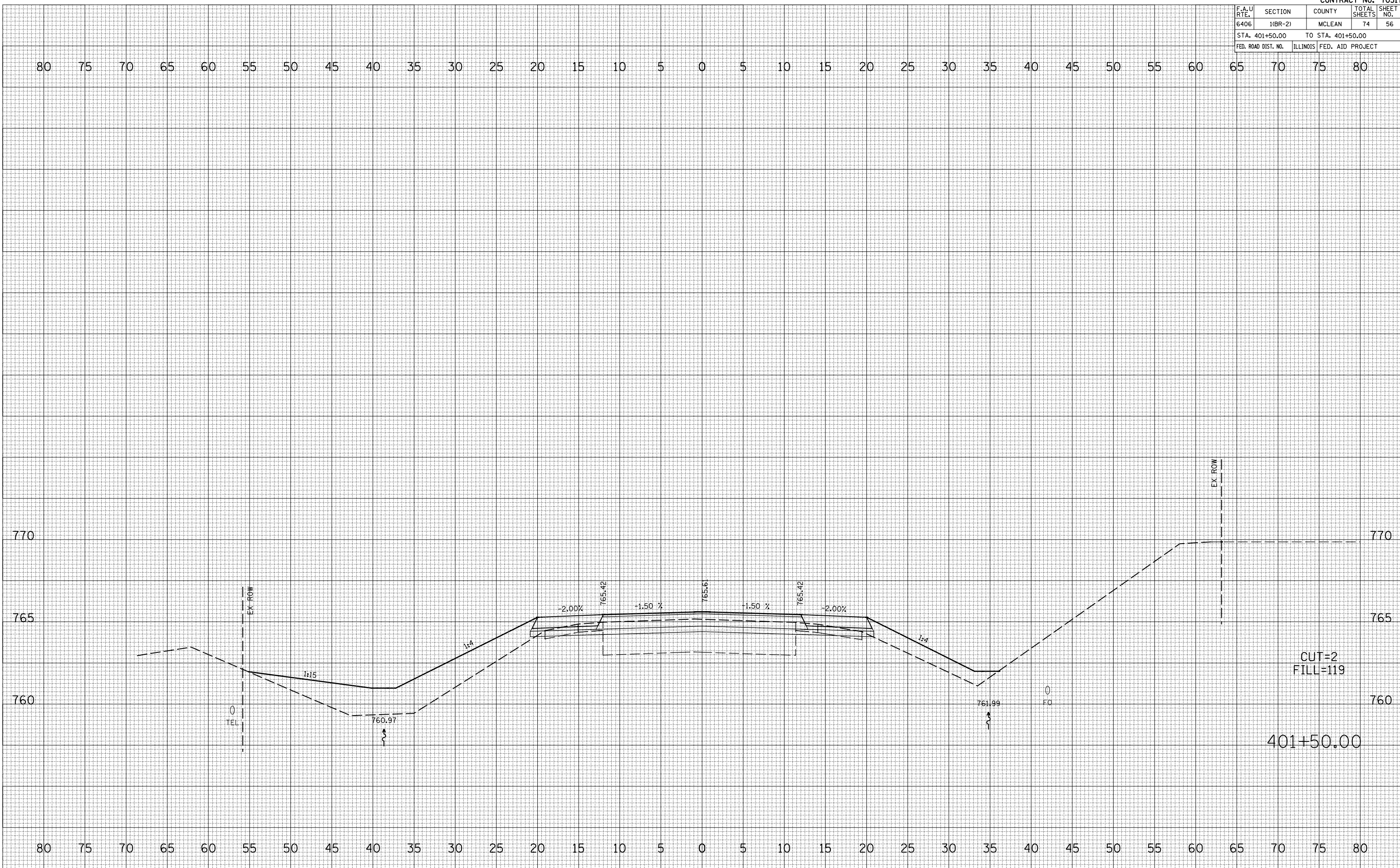
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BY	DATE

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 USER NAME = stull, j



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	57
STA. 402+00.00		TO STA. 402+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

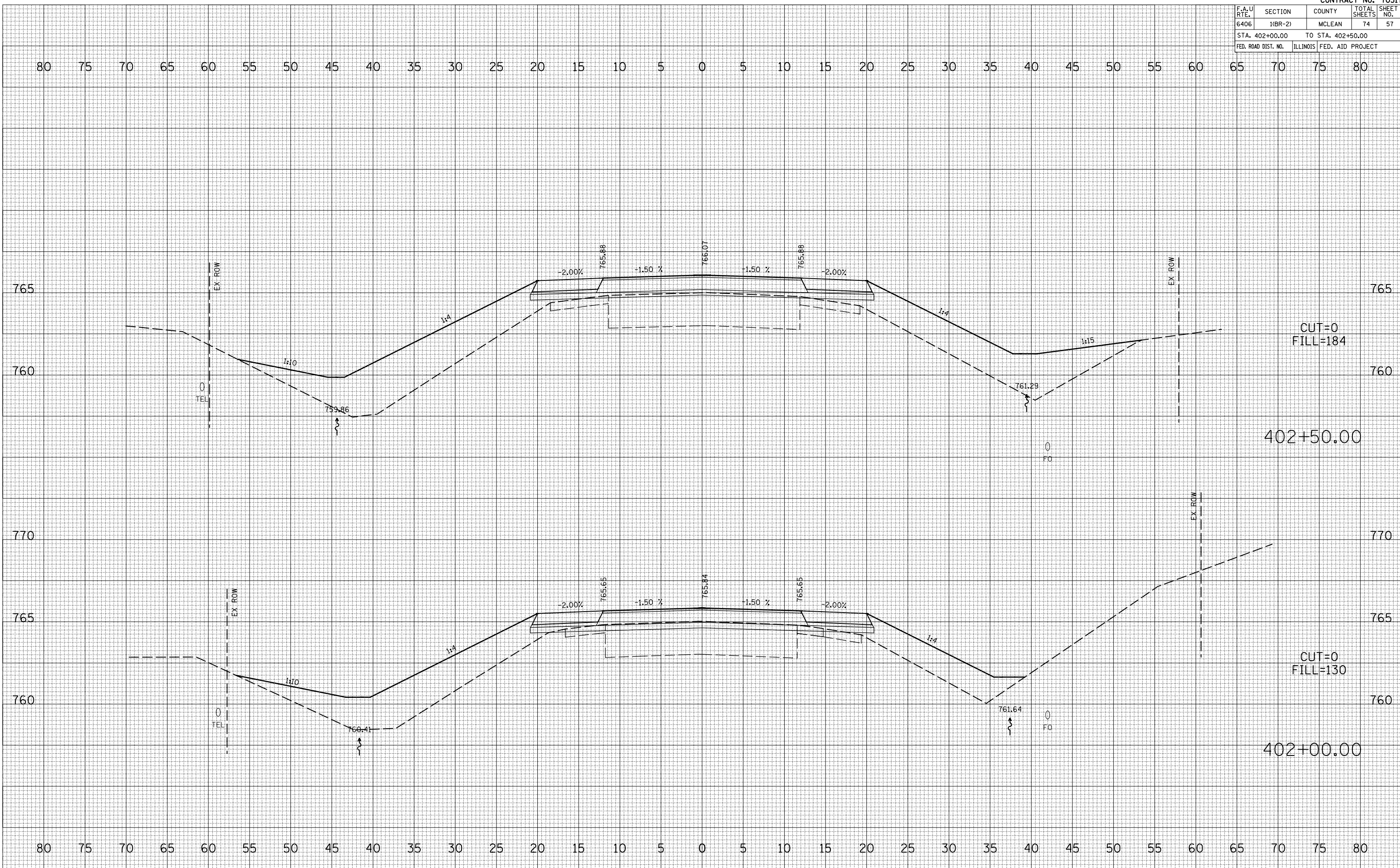
BY	DATE

NO.	DATE	BY	DESCRIPTION

BY	DATE

NO.	DATE	BY	DESCRIPTION

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 PLOT SCALE = 1/8"=1'-0"
 USER NAME = stull, j



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	58
STA. 403+00.00		TO STA. 403+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

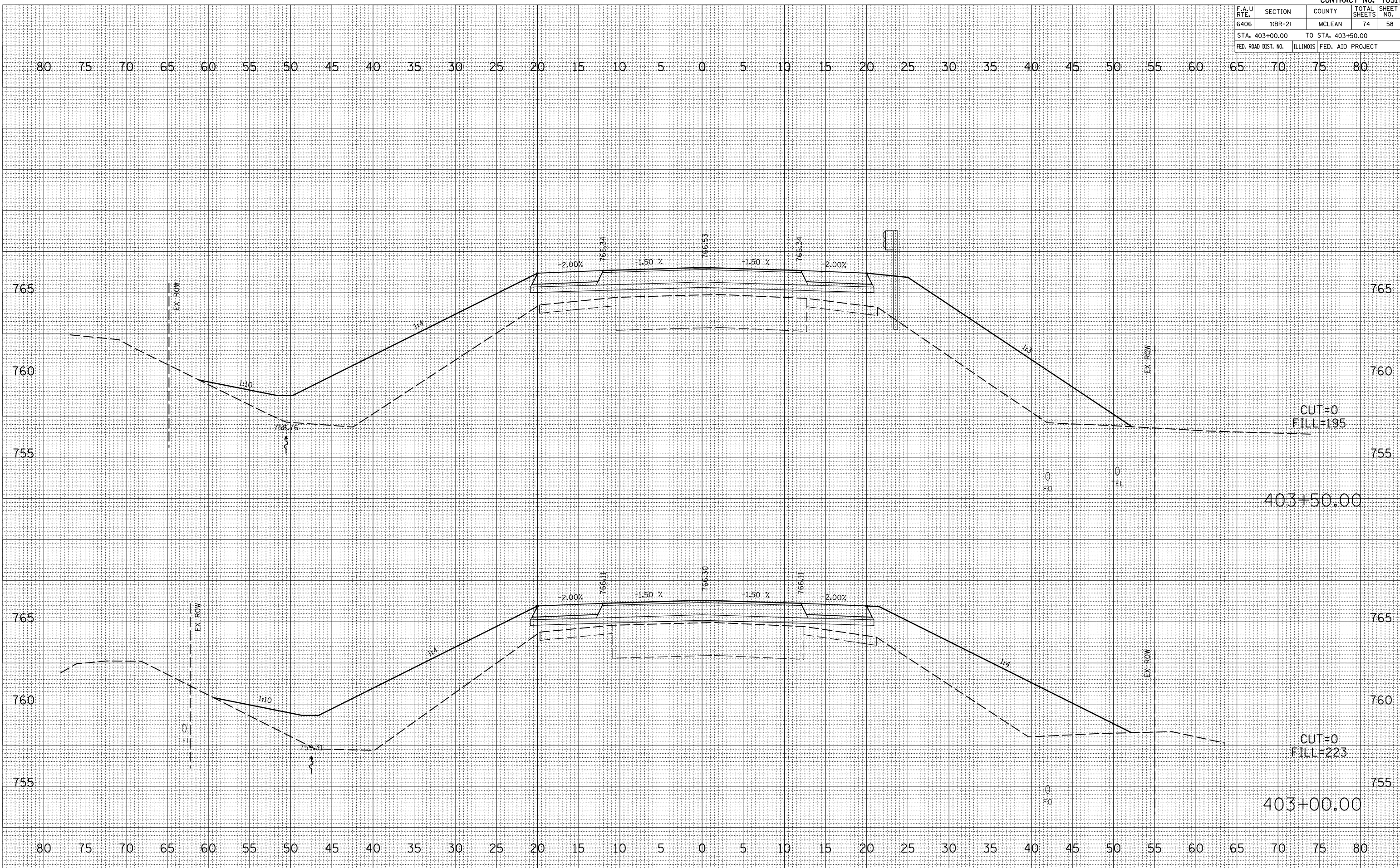
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BY	DATE

NO.	DATE	BY	DESCRIPTION

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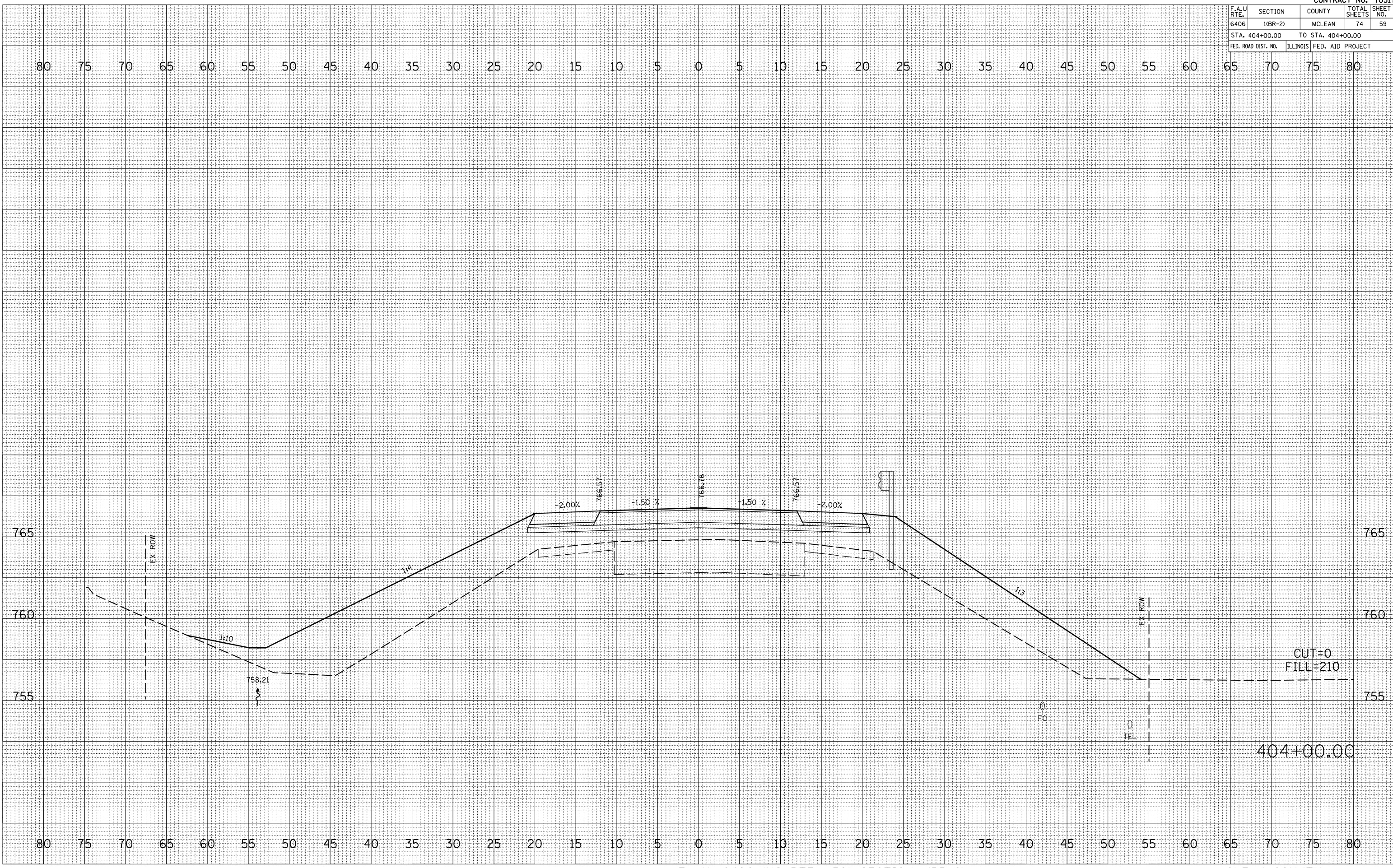


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	59
STA. 404+00.00		TO STA. 404+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	BY

DATE	BY

PLOT DATE = 8/21/2008
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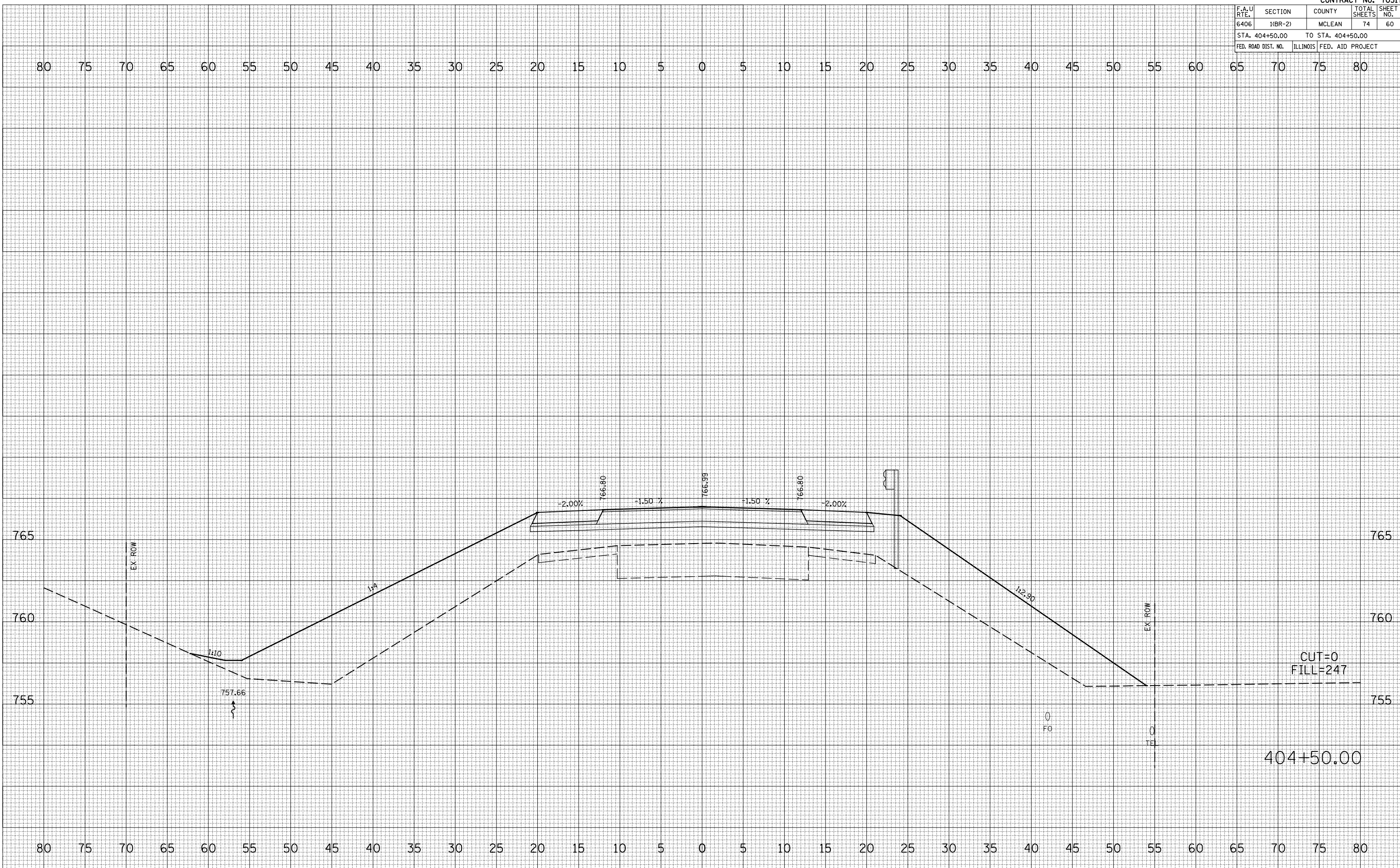


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	60
STA. 404+50.00		TO STA. 404+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	BY

DATE	BY

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 USER NAME = stull, j



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	61
STA. 405+00.00		TO STA. 405+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

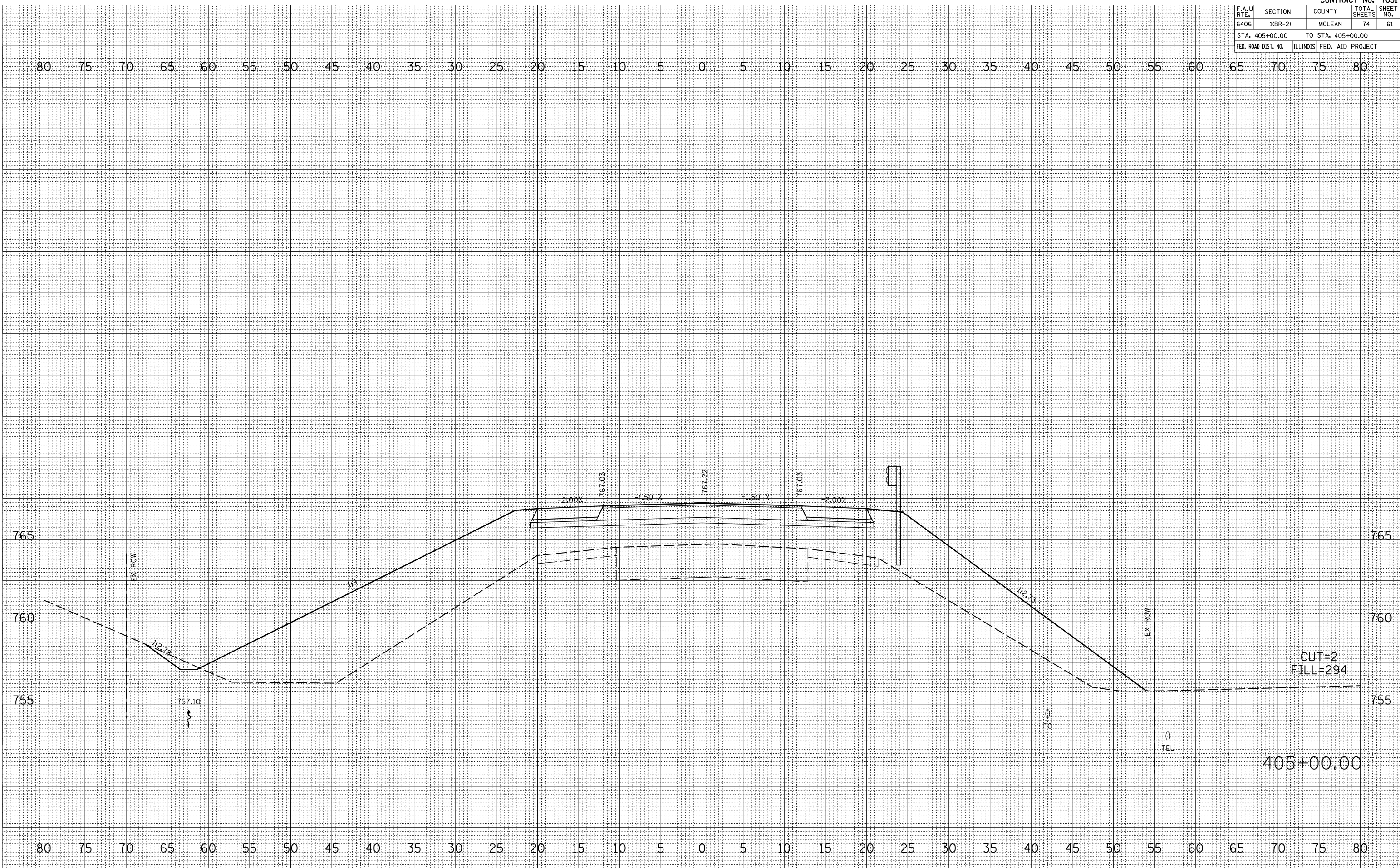
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 USER NAME = stull, j



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	62
STA. 405+50.00		TO STA. 405+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

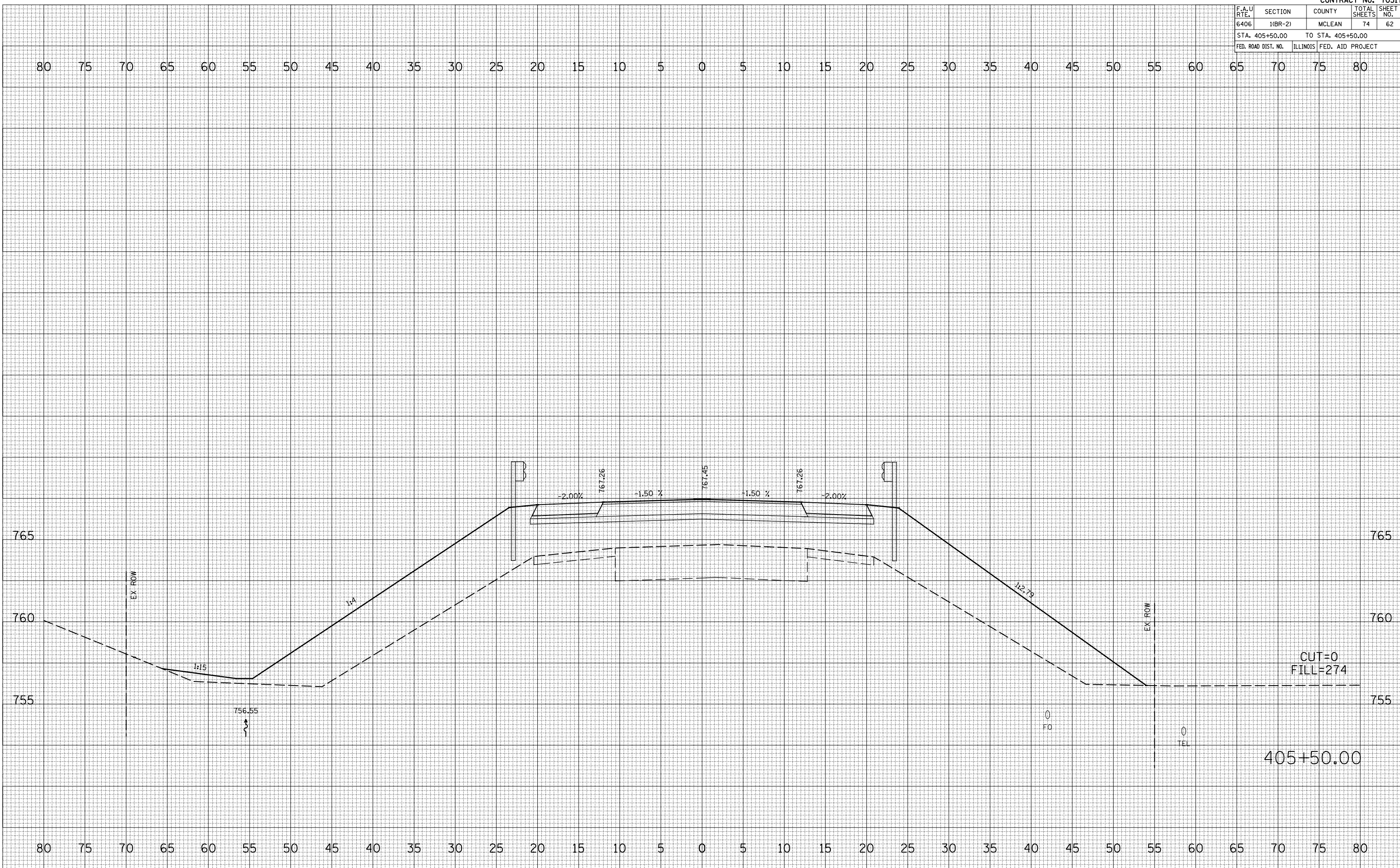
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NO.	AREAS CHECKED

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	63
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

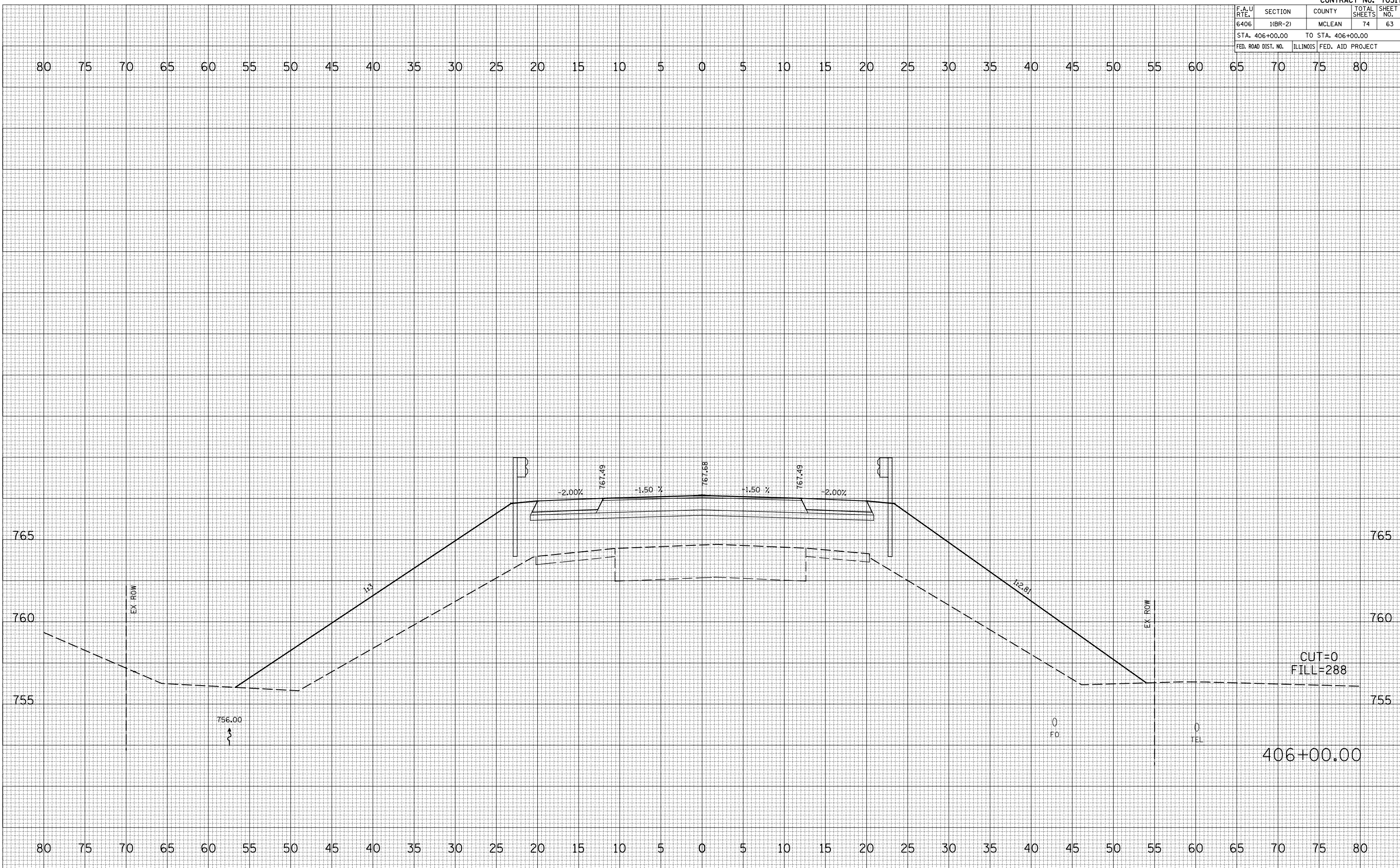
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NO.	AREAS CHECKED

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 USER NAME = stull, j



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	64
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

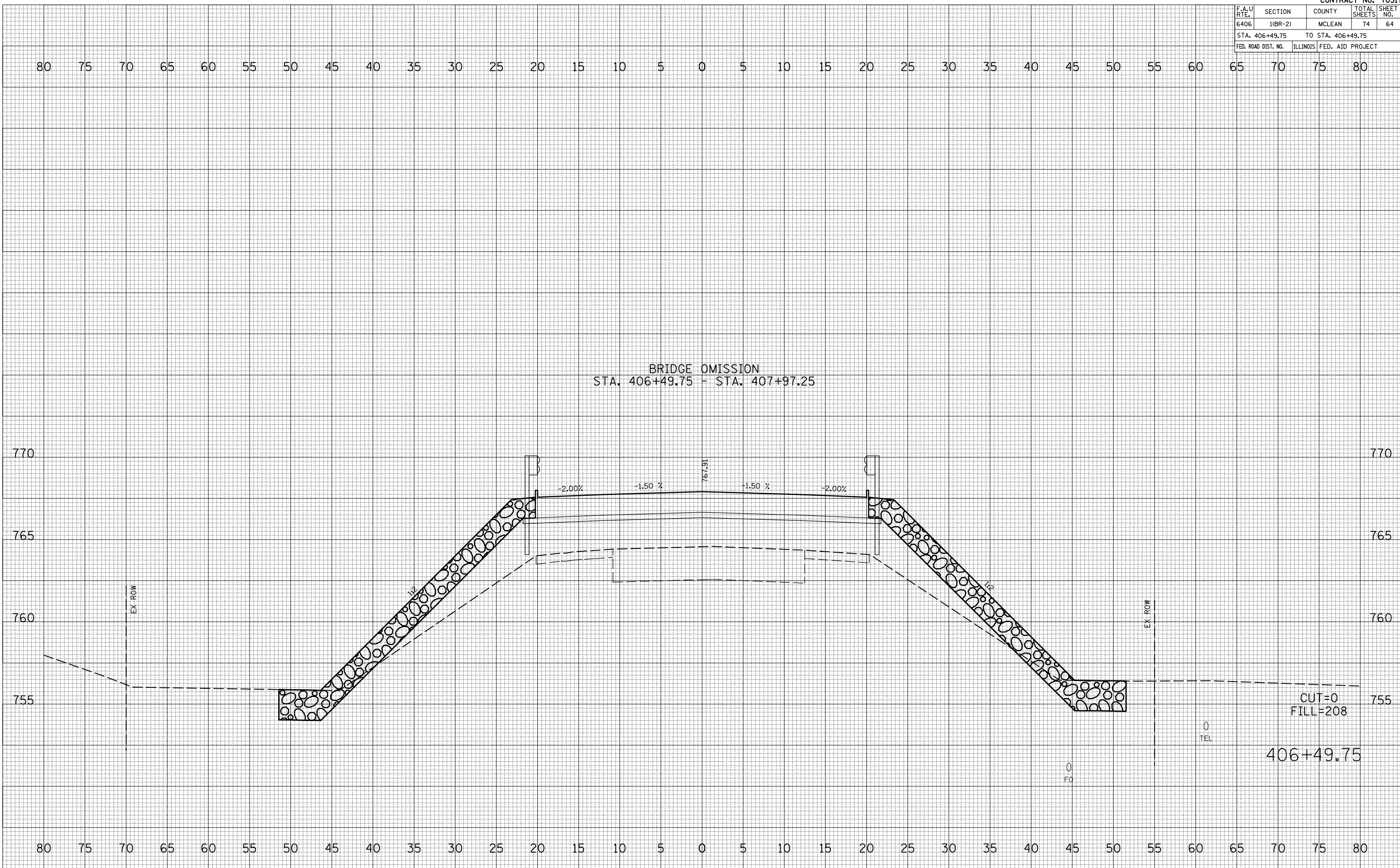
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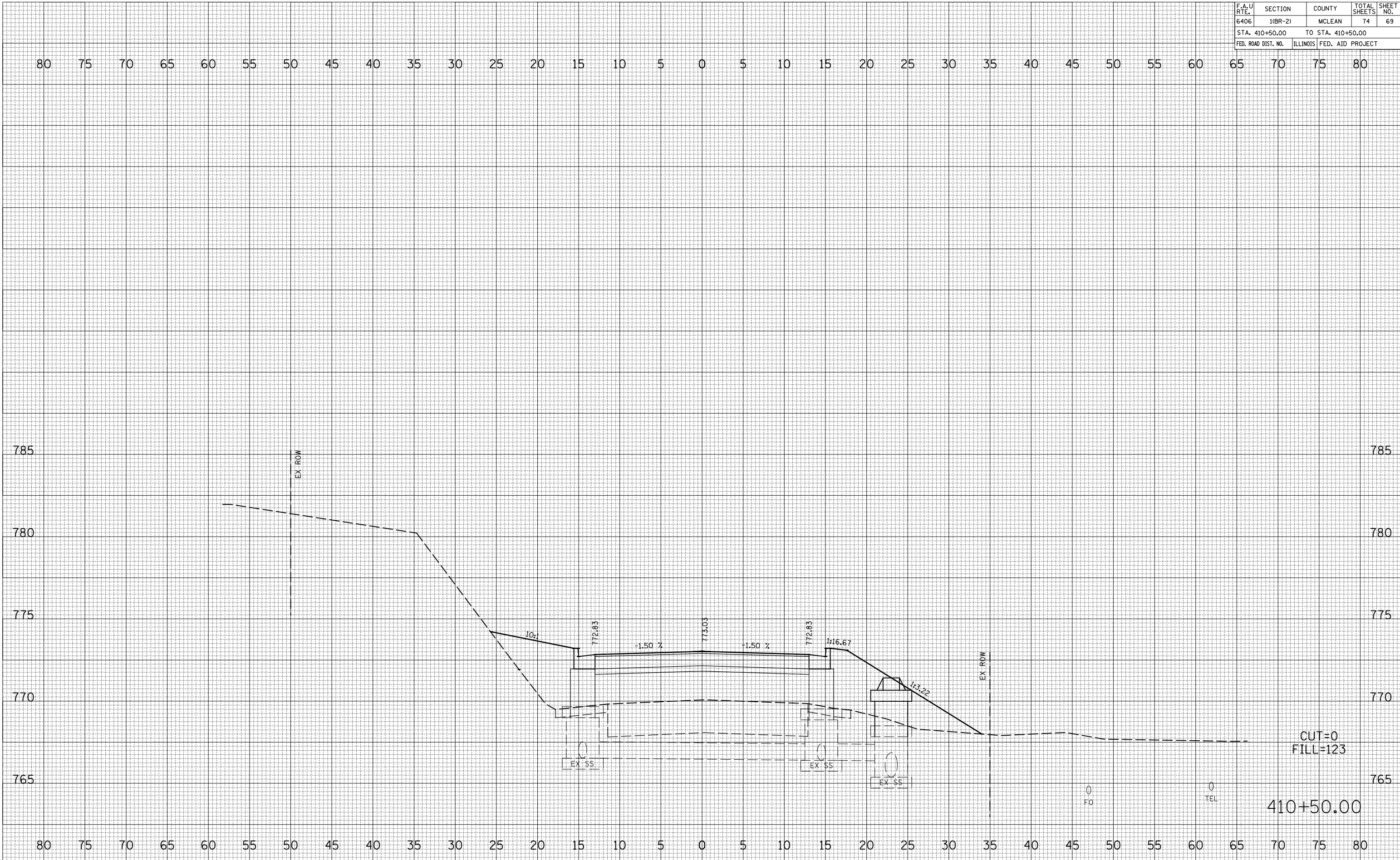
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	69
STA. 410+50.00		TO STA. 410+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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PLOT DATE = 8/21/2008
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 USER NAME = stulzj

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	70
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

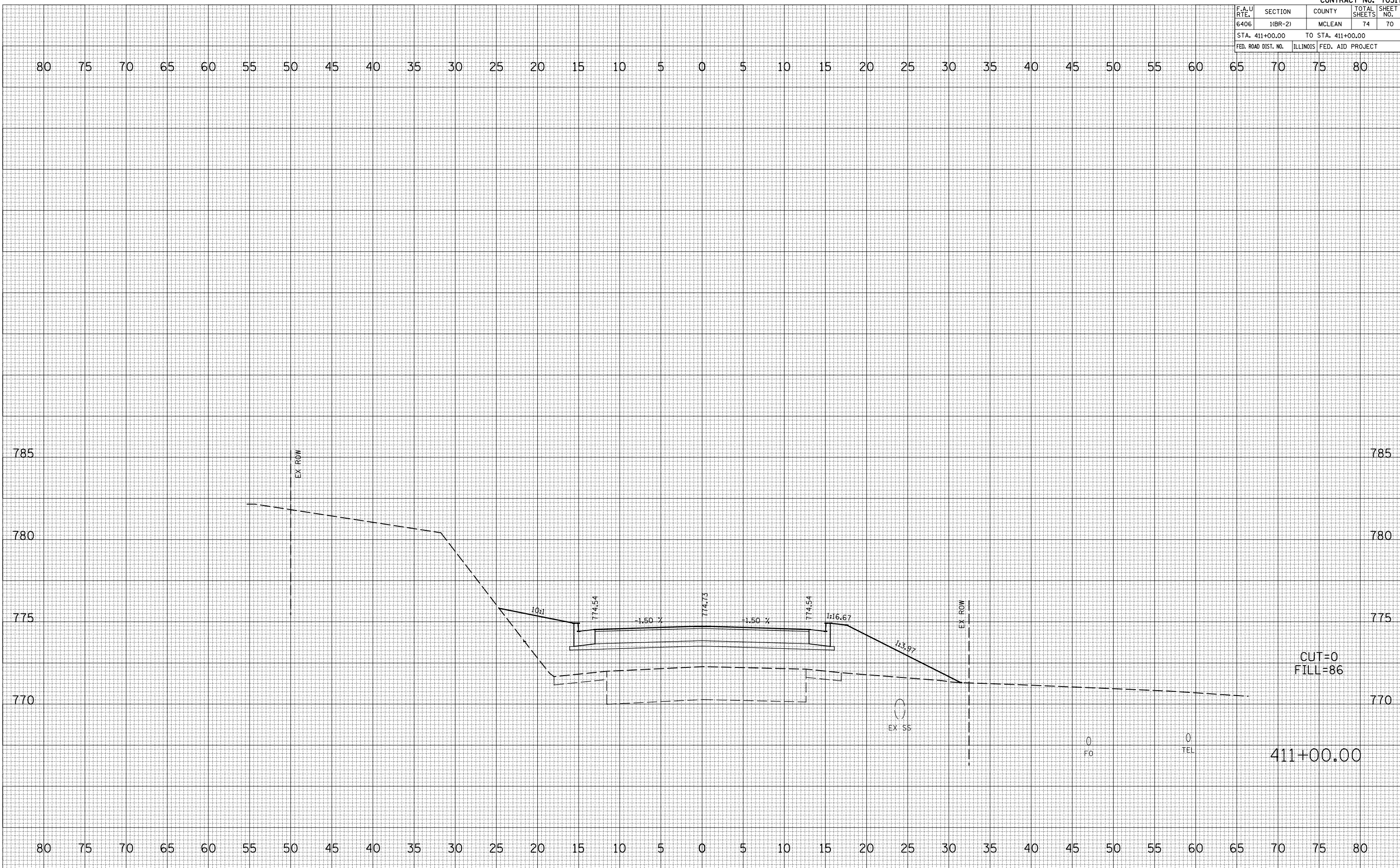
BY	DATE

FINAL SURVEY	SURVEYED	PLOTTED	DATE
NOTE BOOK			
NO.			

BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE

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 PLOT SCALE = 1/8" = 10.00'
 USER NAME = stullrj



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	71
STA. 411+50.00		TO STA. 412+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

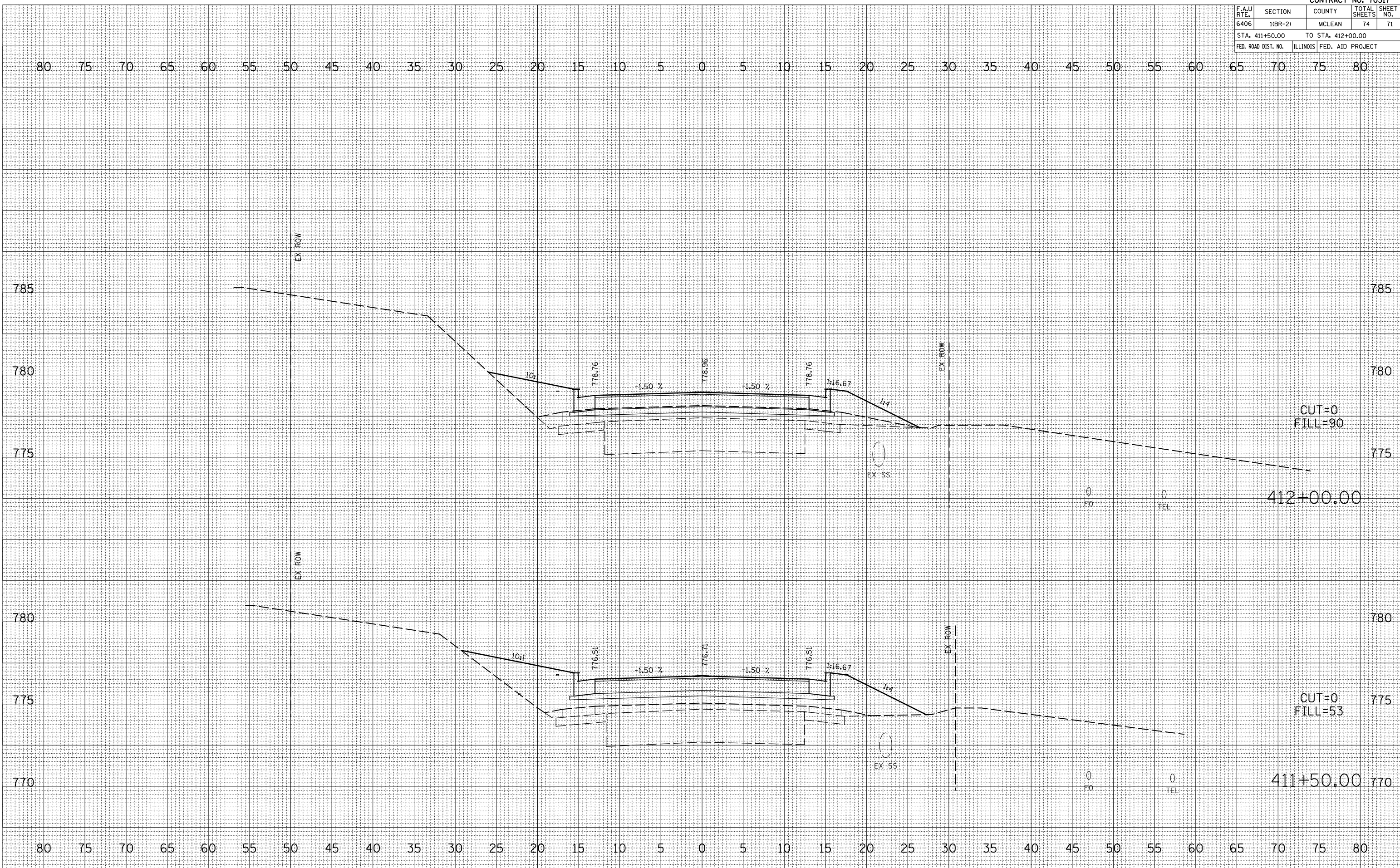
BY	DATE

NO.	AREAS CHECKED

BY	DATE

NO.	AREAS CHECKED

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 FILE NAME = 1015582.dwg
 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = stull, j



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	72
STA. 412+50.00		TO STA. 413+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

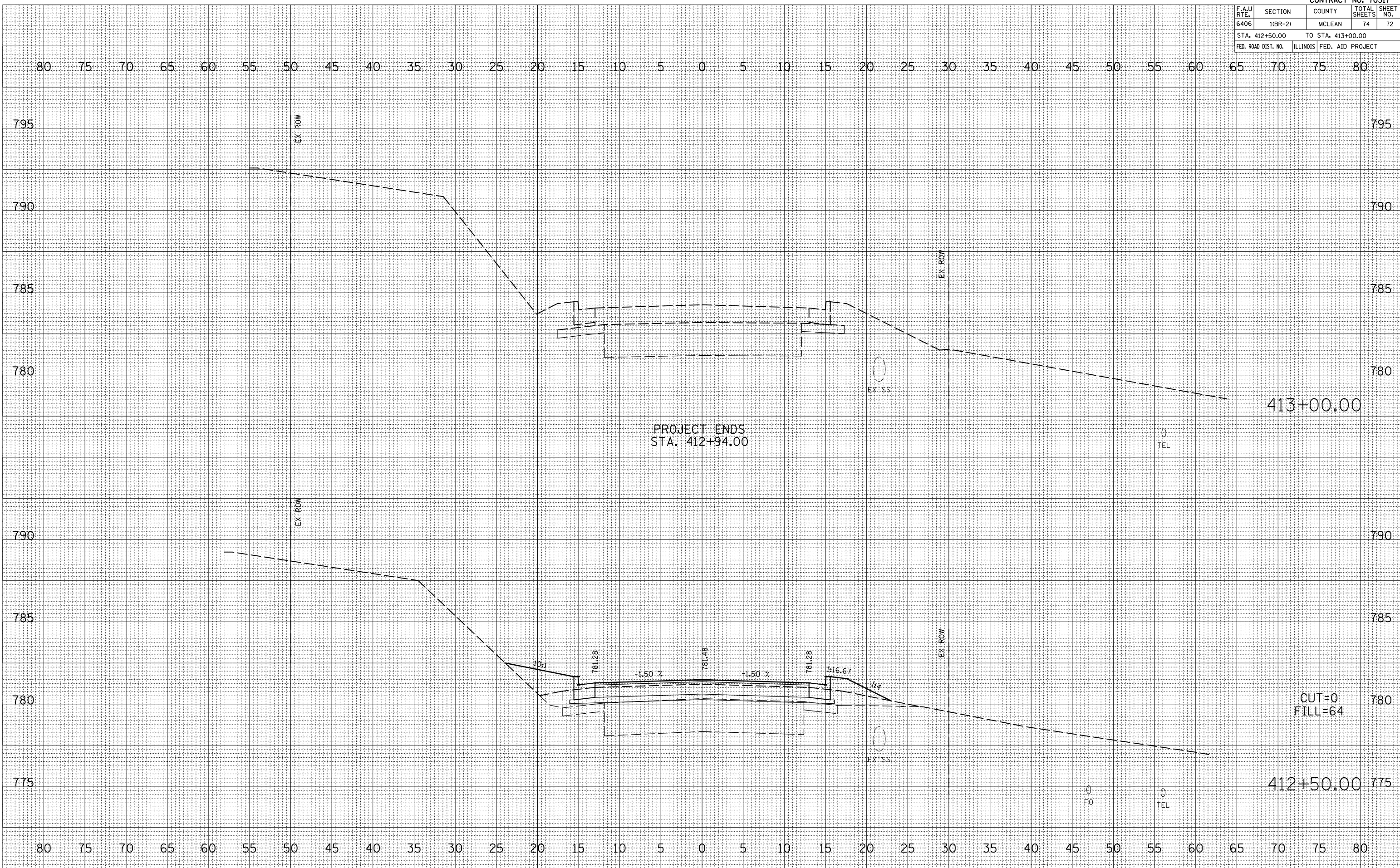
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 USER NAME = stull, j



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6406	1(BR-2)	MCLEAN	74	73
STA. +54.52		TO STA. 1+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BY	DATE

NO.	AREAS CHECKED

BY	DATE

NO.	AREAS CHECKED

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