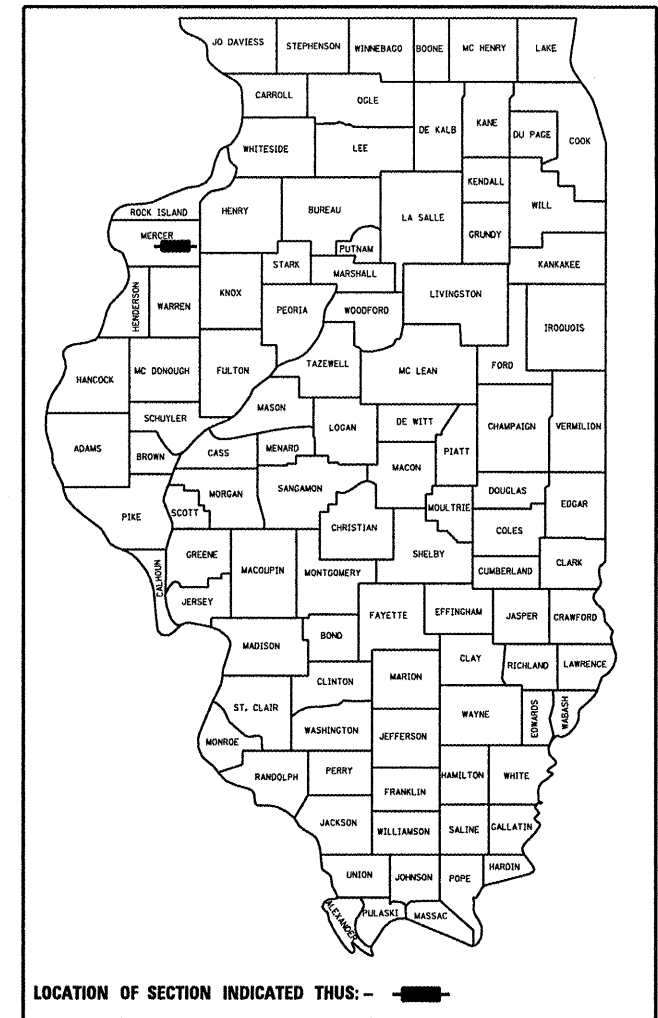


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
639	(125)I-1	MERCER	33	1
		ILLINOIS	CONTRACT NO. 68929	

D-94-095-09



THIS PROJECT CONSISTS OF SLOPE REPAIR, HEADWALL REMOVAL, TWO BOX CULVERT EXTENSIONS, AND OTHER COLLATERAL WORK.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED April 4 20 10
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 7 20 10
Scott E. Stitt P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

May 7 20 10
Christine M. Reeder
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

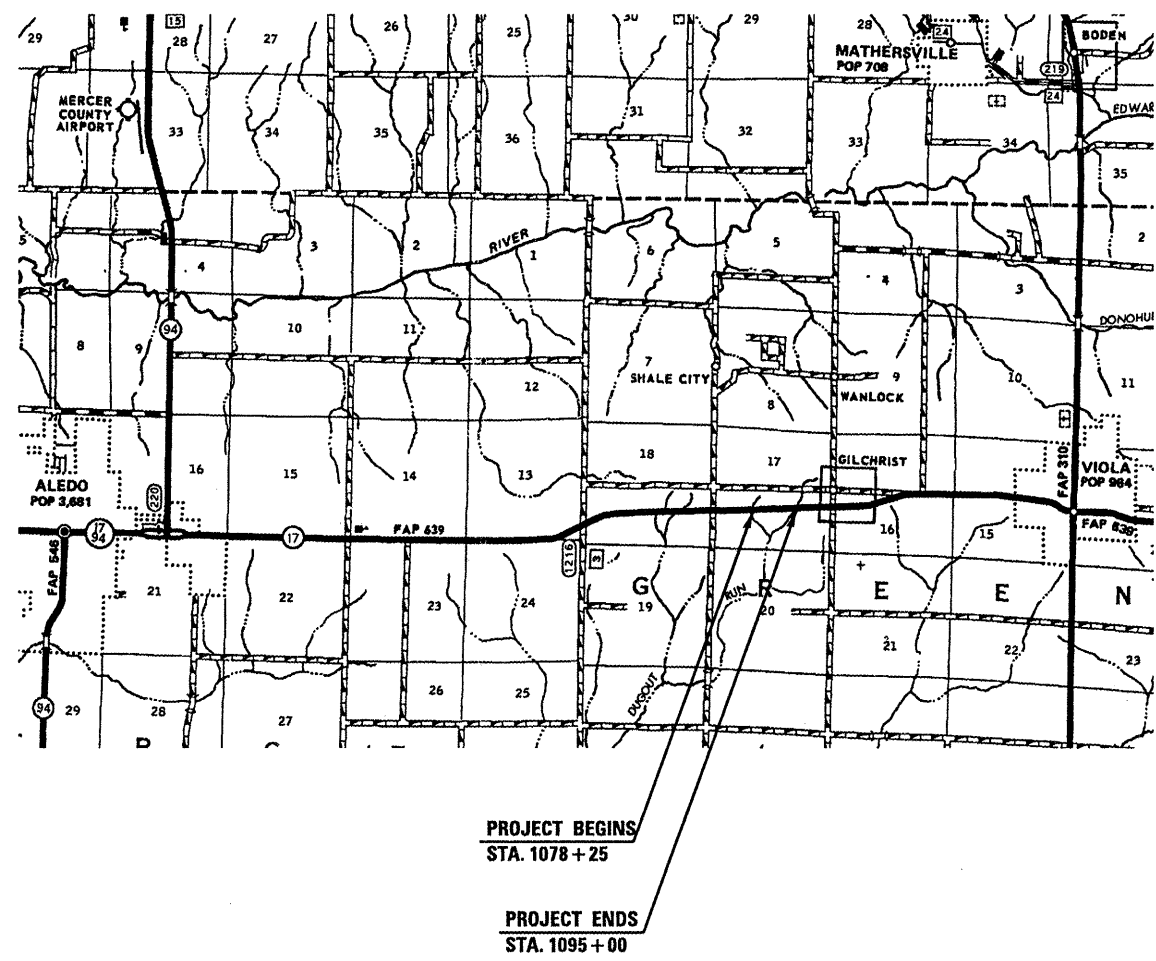
PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 639 (IL 17)
SECTION (125)I-1
CONTRACT MAINTENANCE
MERCER COUNTY

C-94-156-09

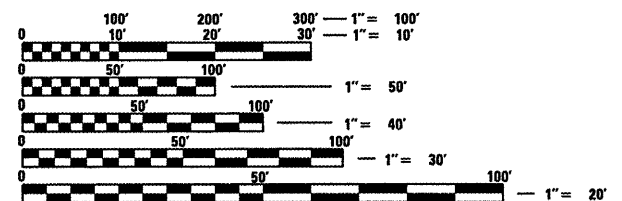


INDEX OF SHEETS

1. COVER SHEET
2. COMMITMENTS/GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. TYPICAL SECTION
- 5-6. PLAN VIEWS
- 7-8. SCHEDULE OF QUANTITIES
9. R.O.W. PLAT
10. DROP STRUCTURE DETAIL
11. SKEWED BOX CULVERT EXTENSION COLLAR DETAIL
12. UNSUITABLE EXCAVATION DETAIL
13. SOIL BORING LOG
- 14-29. CROSS SECTIONS
- 30-33. DISTRICT STANDARDS
- 280001-D4
- 281001-D4
- 540401-D4

HIGHWAY STANDARDS

- 280001-05
- 666001-01
- 701001-02
- 701006-03
- 701011-02
- 701201-03
- 701301-03
- 701901-01



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
OR 811

PROJECT ENGINEER: M. ADDIS (309)671-3495
PROJECT MANAGER: K. KILMAN (309)671-3481
CONTRACT NO. 68929
CATALOG NO. 034311-00D

ADT = 2950 (2008)
7.6% TRUCKS

GROSS LENGTH = 1675 FT. = 0.317 MILE
NET LENGTH = 400 FT. = 0.075 MILE

SOIL REPORT AVAILABILITY

All soils data collected and processed for the Soils Report made in conjunction with the design of this improvement is on file at the District Office where it is available for the inspection of Contractors or prospective bidders. By submitting a bid, the Contractor acknowledges that the Soils Report has been made available and is aware of the report contents and appendices.

UTILITIES – LOCATIONS /INFORMATION ON PLANS

The locations of existing water mains, gas mains, sewers, electric power lines, telephone lines and other utilities as shown on the plans are based on careful field investigation and the best information available, but they are not guaranteed. Unless elevations are shown — all utility locations shown on the cross sections are based on the approximate depth supplied by the utility company. It shall be the Contractor's responsibility to ascertain their exact location from the utility companies and by field inspection.

CLEARING

At locations where clearing is indicated on the plans beyond the limits of the proposed excavation or embankment, the Contractor shall restore the disturbed earth by blading and shaping to blend with the adjacent ground. The clearing will not be paid for separately but shall be included in the cost of excavation pay items in the plans. Payment for reseeding or resodding will be as provided in the plans.

EXISTING DRAINAGE PIPES CONNECTED TO NEW STRUCTURES

In accordance with Section 602 of the Standard Specifications, the connecting of existing drain tiles, pipe culverts, or storm sewers to the proposed drainage system structures will not be paid for separately but shall be considered as included in the pay items provided.

EARTHWORK QUANTITIES (TYPICAL SECTIONS VS CROSS SECTIONS)

The earthwork quantities shown on the plans have been computed to agree with the details as shown on the typical sections and not to the limits shown on the cross sections.

ORDERING LENGTH CONFIRMATION – DRAINAGE ITEMS

The Contractor shall consult with the Engineer in regard to the exact length of the box/pipe culverts, storm sewers, and/or pipe drains required prior to ordering these items.

ENGINEERS FIELD OFFICE

Add the following sentence to the end of paragraph 670.02 (i) and 670.04 (e):
All of the telephone lines provided shall have unpublished numbers.

TEMPORARY BENCHMARK INFORMATION

Temporary Benchmark #1:

Apex R.O.W. marker, N. side of IL 17, 40' LT. Sta 1079+00

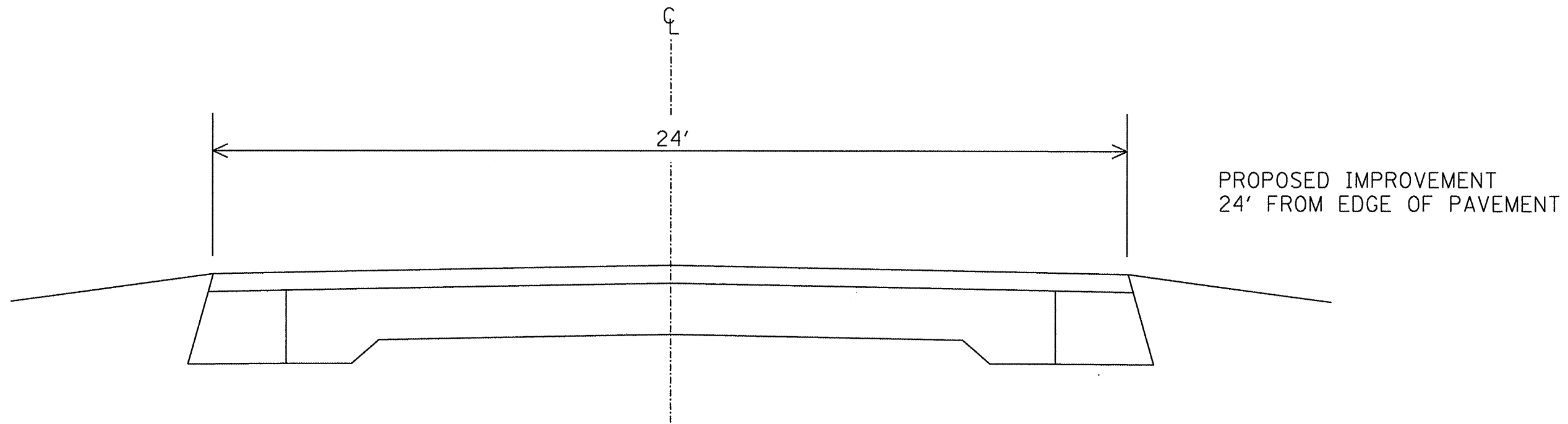
Temporary Benchmark #2:

Chiseled "X" ζ top of 15" Dia. CMP, N. side of IL 17, W. side of F.E., Sta 1089+64 +/-

FILE NAME = D468704-ah-t-plen.dgn	USER NAME = longsr	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COMMITMENTS/GENERAL NOTES/JOB SPECIFIC NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40.0000' / IN.	CHECKED - ---	REVISED - ---			639	D4 CULVERT REPAIR	MERCER	33	2	
	PLOT DATE = 4/8/2010	DATE - ---	REVISED - ---			CONTRACT NO. 68929					
						ILLINOIS FED. AID PROJECT					
						SCALE: _____	SHEET NO. 1 OF 1 SHEETS	STA. _____ TO STA. _____			

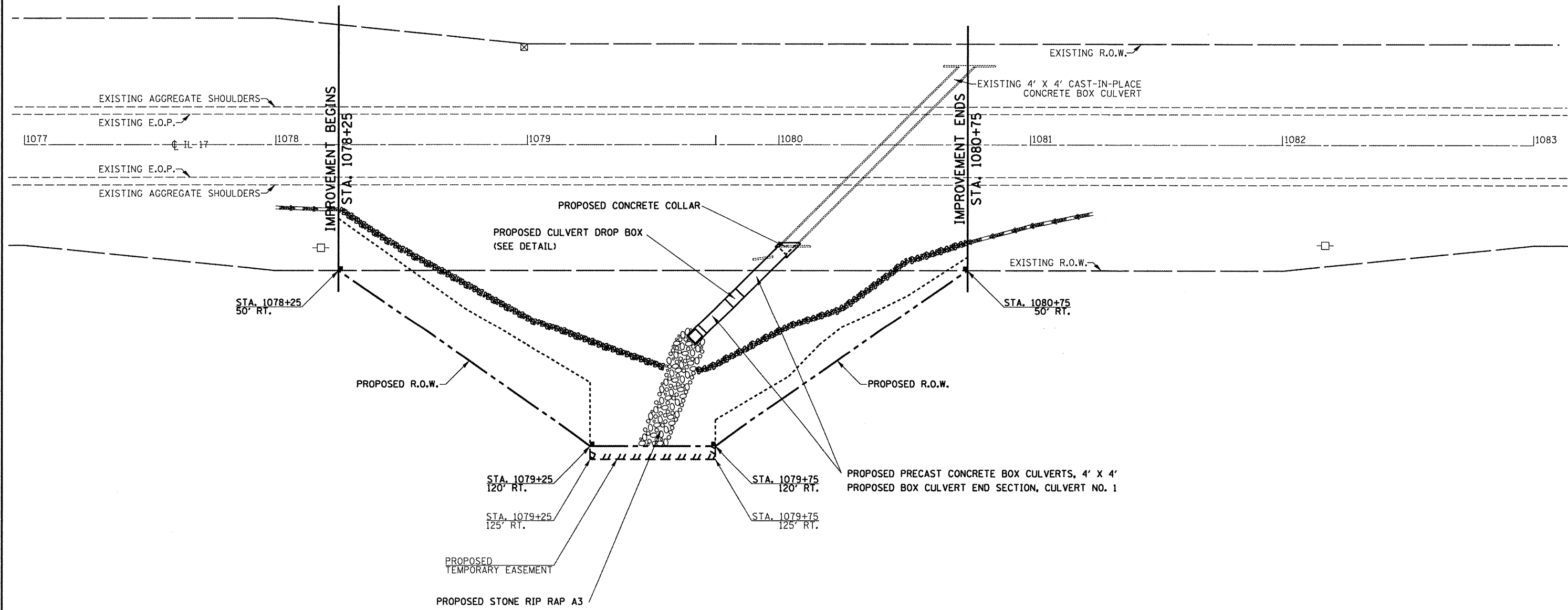
SUMMARY OF QUANTITIES

S P L I T Y	CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY.	CONST. TYPE CODE MERCER COUNTY Y007 100% STATE
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	30	30
	20100500	TREE REMOVAL, ACRES	ACRE	0.1	0.1
	20200100	EARTH EXCAVATION	CU YD	528	528
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	76	76
	20400800	FURNISHED EXCAVATION	CU YD	1256	1256
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	12	12
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	155	155
	21101615	TOPSOIL FURNISH ^{AND} PLACE, 4"	SQ YD	1785	1785
	25000300	SEEDING, CLASS 3	ACRE	0.3	0.3
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	27	27
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	27	27
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	27	27
	25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1785	1785
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	30	30
	28000400	PERIMETER EROSION BARRIER	FOOT	105	105
	28100205	STONE RIPRAP, CLASS A3	TON	126	126
	50104400	CONCRETE HEADWALL REMOVAL	EACH	2	2
	50300225	CONCRETE STRUCTURES	CU YD	6.5	6.5
	50800105	REINFORCEMENT BARS	POUND	1061	1061
	54001001	BOX CULVERT END SECTION, CULVERT NO. 1	EACH	1	1
	54001002	BOX CULVERT END SECTION, CULVERT NO. 2	EACH	1	1
	54002020	EXPANSION BOLTS 3/4 INCH	EACH	16	16
	54010305	PRECAST CONCRETE BOX CULVERT 3' X 5'	FOOT	36	36
	54010404	PRECAST CONCRETE BOX CULVERT 4' X 4'	FOOT	42	42
	54248510	CONCRETE COLLAR	CU YD	5.7	5.7
	66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	8	8
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2
	67100100	MOBILIZATION	L SUM	1	1
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
	Z0054500	ROCK FILL	TON	127	127



TYPICAL SECTION
 STA. 1078+25 TO STA. 1095+00

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	PLOT DATE = 4/8/2010	CHECKED - ---	REVISED - ---				CONTRACT NO. 68929				
	DATE - ---	REVISED - ---		SCALE: _____	SHEET NO. 1 OF 1 SHEETS	STA. _____ TO STA. _____	ILLINOIS FED. AID PROJECT				



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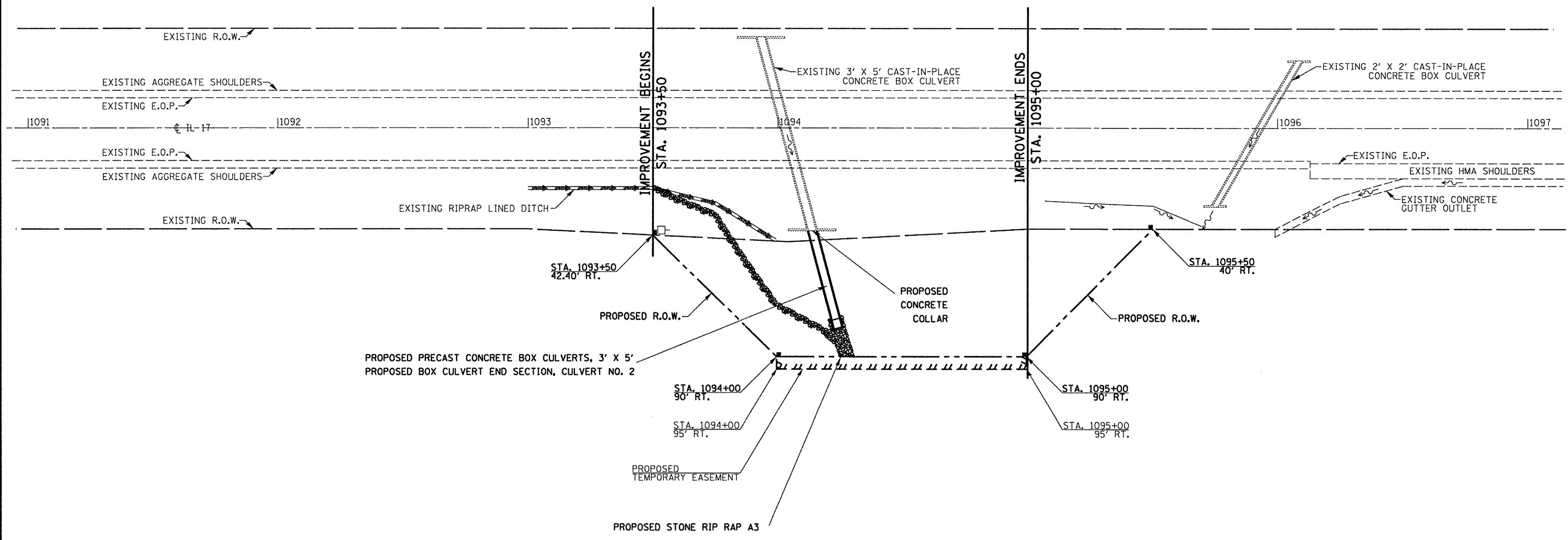
DESIGNED - KKK	REVISED -
DRAWN - KKK	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN VIEW IL 17
 CULVERT EXTENSION - LOCATION 1**

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS @ STA. 1080+43

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
639	(125)-1	MERCER	33	5
CONTRACT NO. 68929				
ILLINOIS FED. AID PROJECT				



FILE NAME = D468784-aht-plan.dgn	USER NAME = longsr	DESIGNED - KKK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN VIEW IL 17 CULVERT EXTENSION - LOCATION 2			F.A.P. RTE. 639	SECTION (125)-1	COUNTY MERCER	TOTAL SHEETS 33	SHEET NO. 6
	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -		SCALE: 1"=20'	SHEET NO. 1 OF 1 SHEETS	¢ STA. 1094+03	CONTRACT NO. 68929				
	PLOT DATE = 4/8/2010	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

SEEDING, CLASS A3	
LOCATION	ACRE
LOCATION #1	0.2
LOCATION #2	0.1
TOTAL	0.3

TOPSOIL FURNISH & PLACE 4"	
LOCATION	SQ. YD.
LOCATION #1	1135.0
LOCATION #2	650.0
TOTAL	1785.0

LOCATION	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS
	EACH
LOCATION #1	
STA 1078+25 OFFSET 50' RT	1
STA 1079+25 OFFSET 120' RT	1
STA 1079+75 OFFSET 120' RT	1
STA 1080+75 OFFSET 50' RT	1
LOCATION #2	
STA 1093+50 OFFSET 42.40' RT	1
STA 1094+00 OFFSET 90' RT	1
STA 1095+00 OFFSET 90' RT	1
STA 1095+50 OFFSET 40' RT	1
TOTALS	8

TEMPORARY EROSION CONTROL SEEDING	
LOCATION	POUND
LOCATION #1	20.0
LOCATION #2	10.0
TOTAL	30.0

PERIMETER EROSION BARRIER	
LOCATION	FOOT
LOCATION #1	75.0
LOCATION #2	30.0
TOTAL	105.0

LOCATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL, ACRES
	UNIT	ACRE
LOCATION #1	30	
LOCATION #2		0.1
TOTALS	30	0.1

NITROGEN FERTILIZER NUTRIENT	
LOCATION	POUND
LOCATION #1	18.0
LOCATION #2	9.0
TOTAL	27.0

STONE RIPRAP, CLASS A3	
LOCATION	TON
LOCATION #1	105.5
LOCATION #2	20.4
TOTAL	126.0

PHOSPHORUS FERTILIZER NUTRIENT	
LOCATION	POUND
LOCATION #1	18.0
LOCATION #2	9.0
TOTAL	27.0

EARTH EXCAVATION	
LOCATION	CU YD
LOCATION #1	495
LOCATION #2	33
TOTAL	528

POTASSIUM FERTILIZER NUTRIENT	
LOCATION	POUND
LOCATION #1	18.0
LOCATION #2	9.0
TOTAL	27.0

FURNISHED EXCAVATION			
LOCATION	CUT*	FILL	CY
LOCATION #1	371.3	815.3	444.1
LOCATION #2	24.7	836.8	812.1
TOTAL			1256

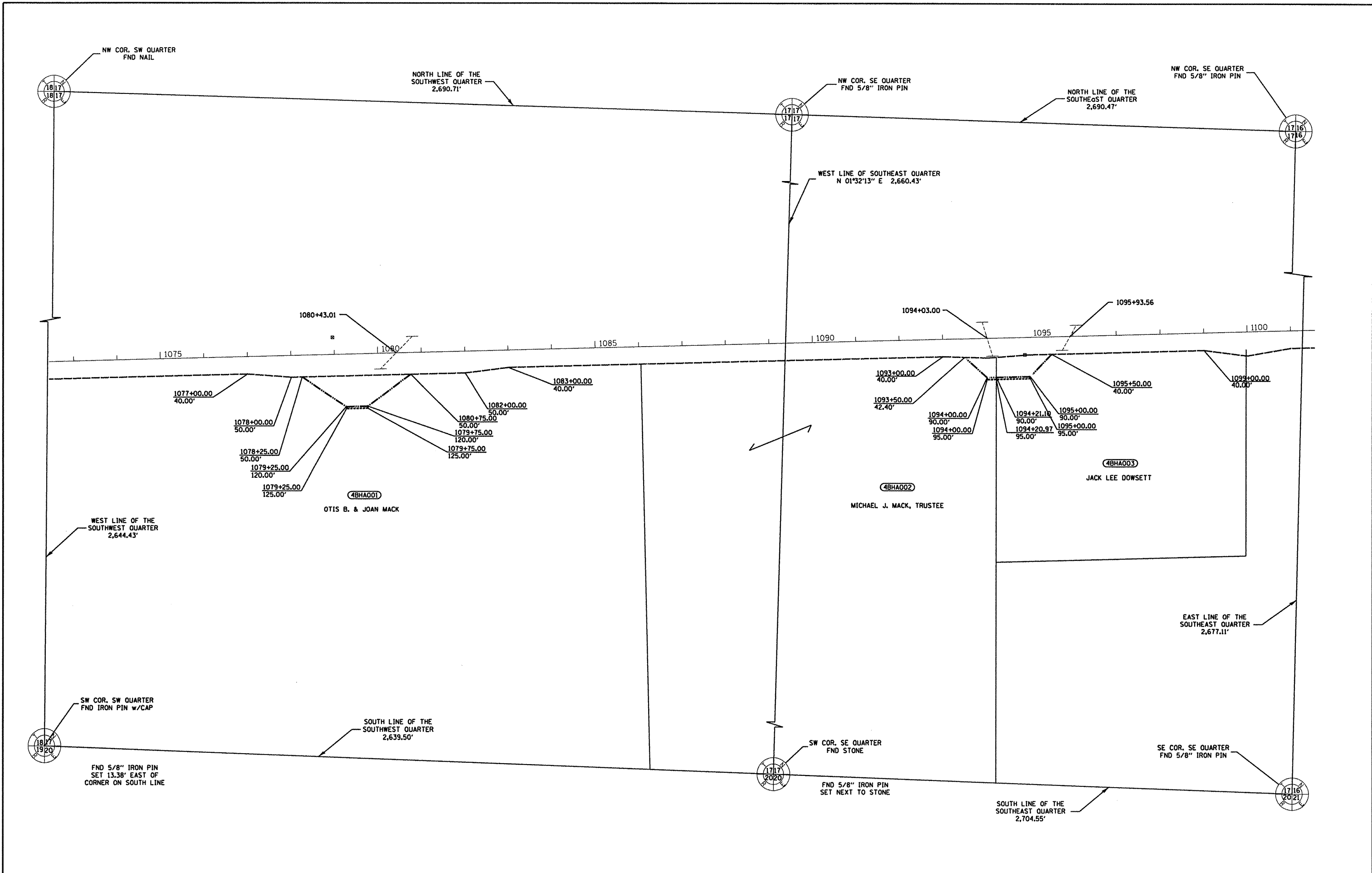
HEAVY DUTY EROSION CONTROL BLANKET	
LOCATION	SQ. YD.
LOCATION #1	1135.0
LOCATION #2	650.0
TOTAL	1785.0

* EARTH EXCAVATION WITH 25% SHRINKAGE

LOCATION	ROCK FILL	POROUS GRANULAR EMBANKMENT	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
	TON	CU YD	SQ YD	CU YD
LOCATION #1	127	10	118	59
LOCATION #2		2	37	17
TOTALS	127	12	155	76

LOCATION	CONCRETE HEADWALL REMOVAL	BOX CULVERT END SECTION CULVERT NO. 1	BOX CULVERT END SECTION CULVERT NO. 2	PRECAST CONCRETE BOX CULVERT 3' X 5'	PRECAST CONCRETE BOX CULVERT 4' X 4'
	EACH	EACH	EACH	FOOT	FOOT
LOCATION #1	1	1			42
LOCATION #2	1		1	36	
TOTALS	2	1	1	36	42

LOCATION	CONCRETE COLLAR	CONCRETE STRUCTURES	EXPANSION BOLTS 3/4 INCH	REINFORCEMENT BARS
	CU YD	CU YD	EACH	POUND
LOCATION #1 - CONCRETE COLLAR	3.7		8	112
LOCATION #1 - DROP BOX		6.5		993
LOCATION #2 - CONCRETE COLLAR	2		8	56
TOTALS	5.7	6.5	16	1161



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 PLOT DATE = 4/8/2010

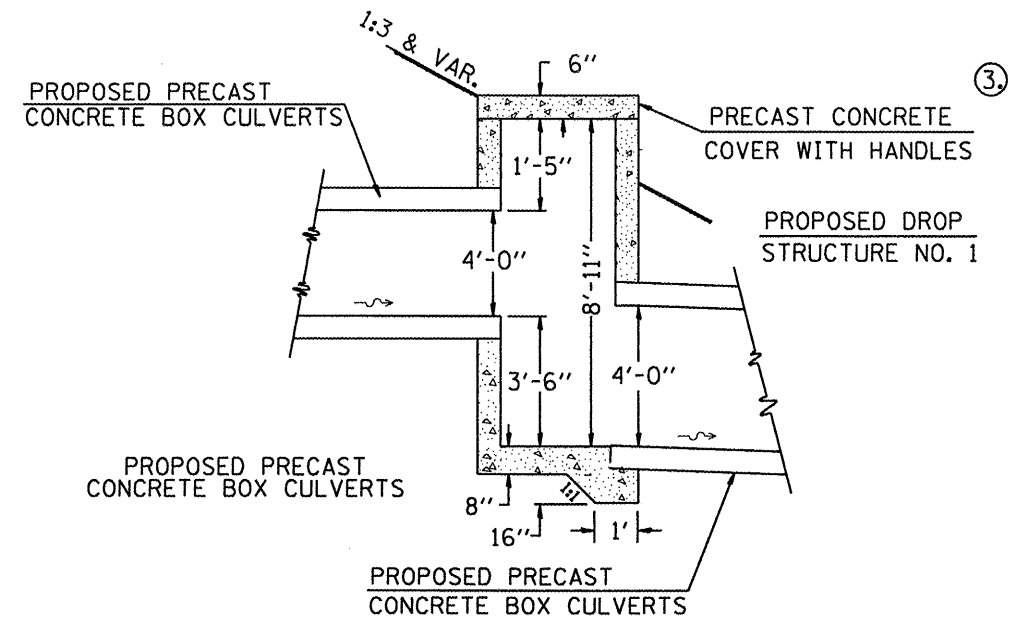
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CHECKED -	---	REVISED -	-----
DATE -	-----	REVISED -	-----

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY PLAN

SCALE: _____ SHEET NO. 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
639	D4 CULVERT REPAIR	MERCER	33	9
CONTRACT NO. 68929				
ILLINOIS FED. AID PROJECT				

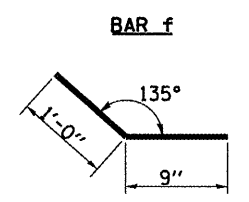


SECTION A-A

BILL OF MATERIALS

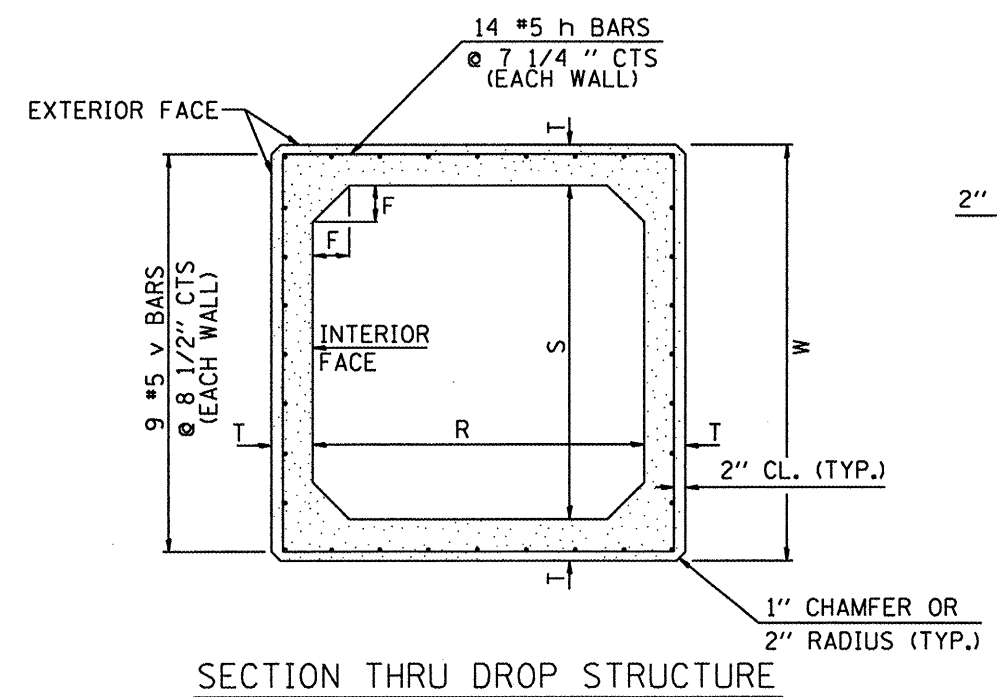
BAR	SIZE	NO.	LENGTH	WEIGHT (LB)
f	5	9	1'-9"	16.43
h	5	112	5'-8"	662.00
v	5	32	9'-5"	314.29
v ₁	5	9	•	••
DESCRIPTION		UNIT	QTY	
CLASS "SI" CONCRETE		CU YD	6.5	
REINFORCEMENT BARS		LB	993	

- CUT IN FIELD TO FIT
- WEIGHT IS INCLUDED IN v BARS PROVIDED AND SHALL BE CUT TO FIT IN THE FIELD

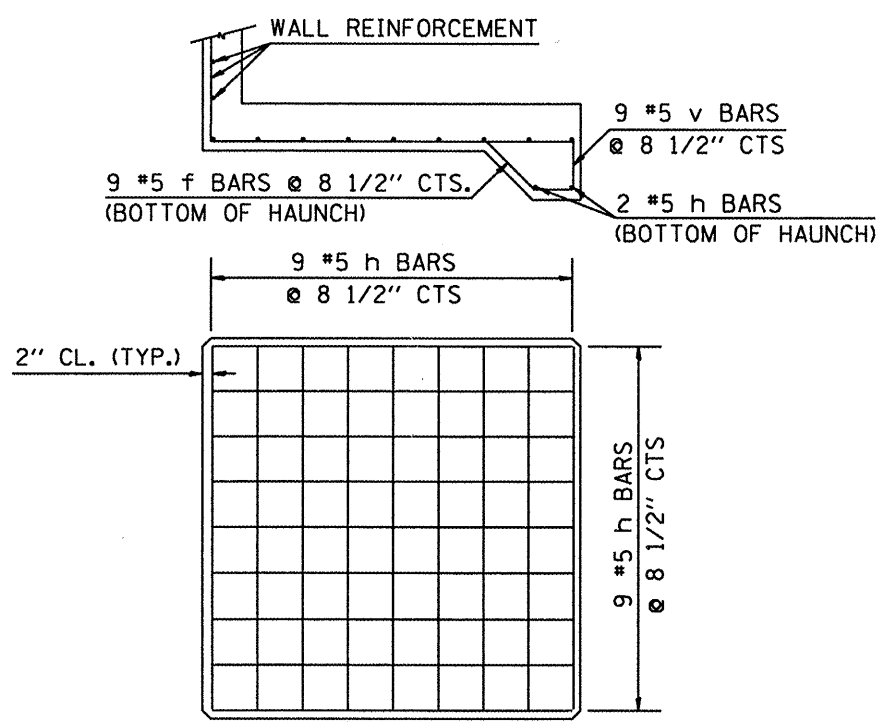


DIMENSIONS

S x R ft (mm)	T	W	Y	F
5' x 5' (1500 x 1500)	6" (150)	6'-0" (1.83m)	6'-0" (1.83m)	6" (150)



SECTION THRU DROP STRUCTURE



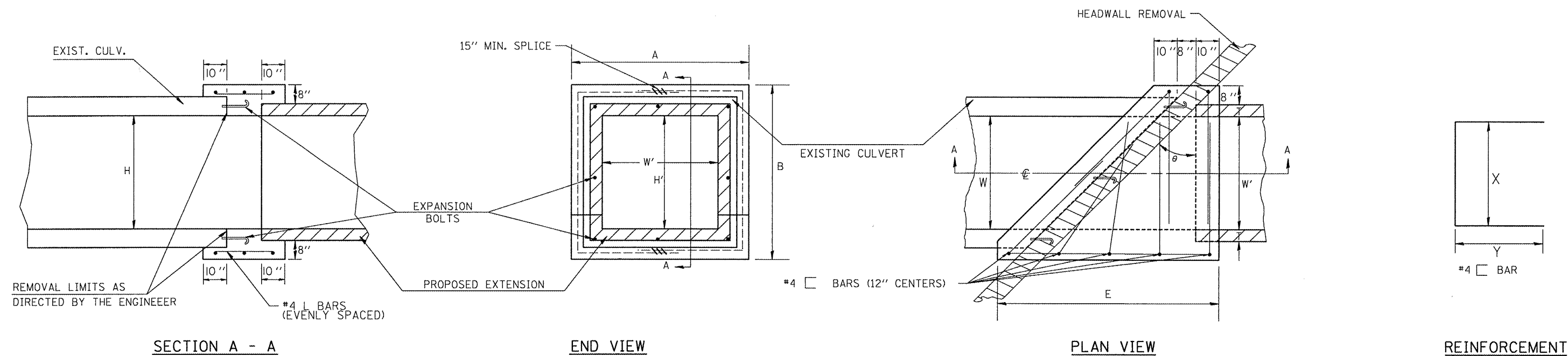
BOTTOM SLAB REINFORCEMENT

GENERAL NOTES

- DROP STRUCTURE NO. 1 shall be constructed entirely of CLASS SI CONCRETE and in accordance with the applicable portions of Section 503 and 540 of the Standard Specifications. REINFORCEMENT BARS shall conform to section 508. Bar size and spacing of precast concrete cover shall be the same as that of the bottom slab with two inch clearance from the top of cover.
- The h and v bars in the upstream and downstream walls shall be cut to fit in the field to accommodate the box culvert connections.
- The precast concrete cover shall be considered included in the unit price bid for Concrete Structures.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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



LOCATION	EXIST. BOX		PROP. BOX			EACH COLLAR					CLASS SI CONCRETE CU. YD.	REBAR POUND	3/4 (M20) EXPANSION BOLTS EACH	SKEW ANGLE θ
	W	H	W'	H'	T	A	B	E	X	Y				
	NO. 1	4'	4'	4'	4'	5"	6'-2"	6'-2"	7'-10"	5'-10"				
NO. 2	3'	5'	3'	5'	6"	5'-4"	7'-4"	3'-0"	7'-0"	3'-5"	1.97	56	10	15°
TOTALS											5.66	168	18	

$$D = \frac{8+T}{\cos\theta}$$

$$E = [W+6+2T] + \tan\theta + 8$$

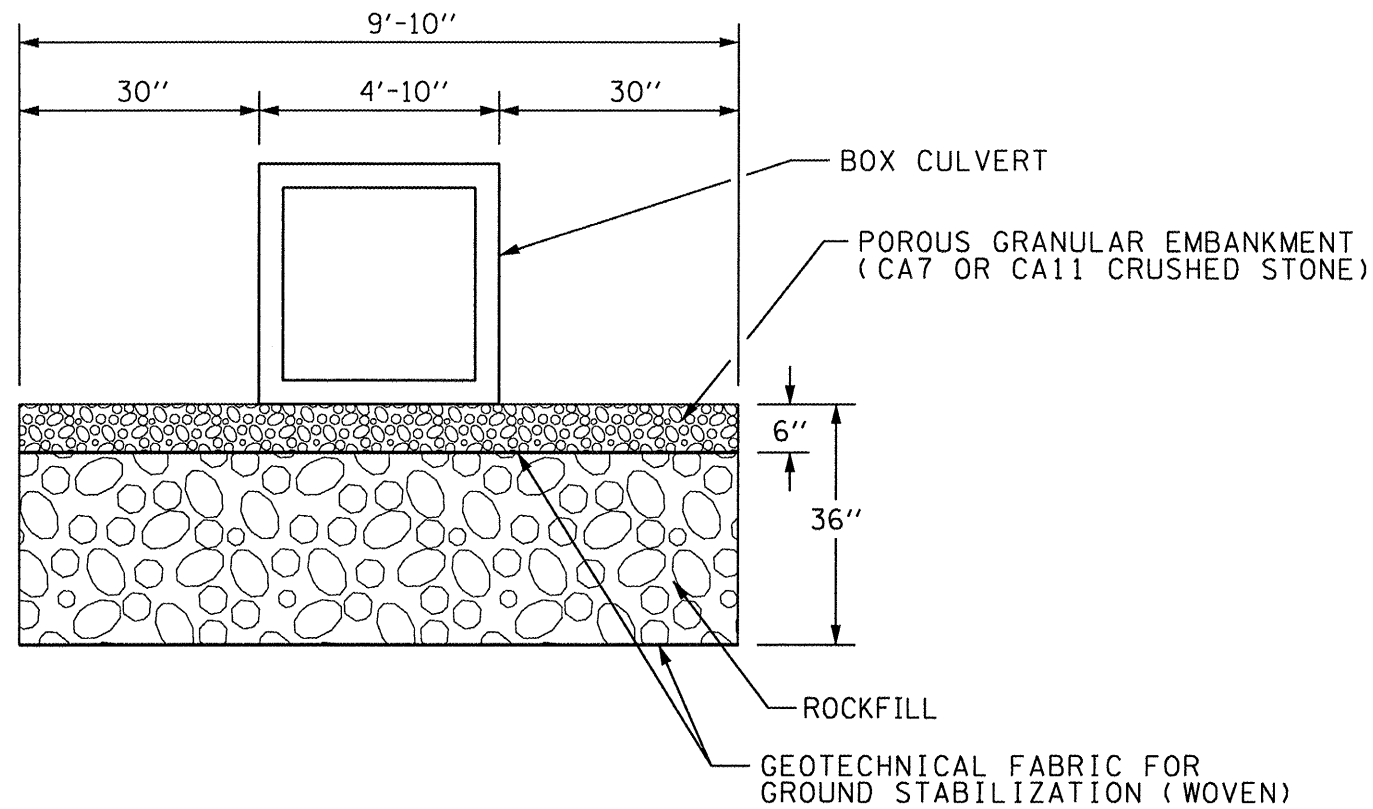
$$X = B - 4$$

$$Y = \frac{W/2 + T + 8}{\cos\theta} + 7 \frac{1}{2}$$

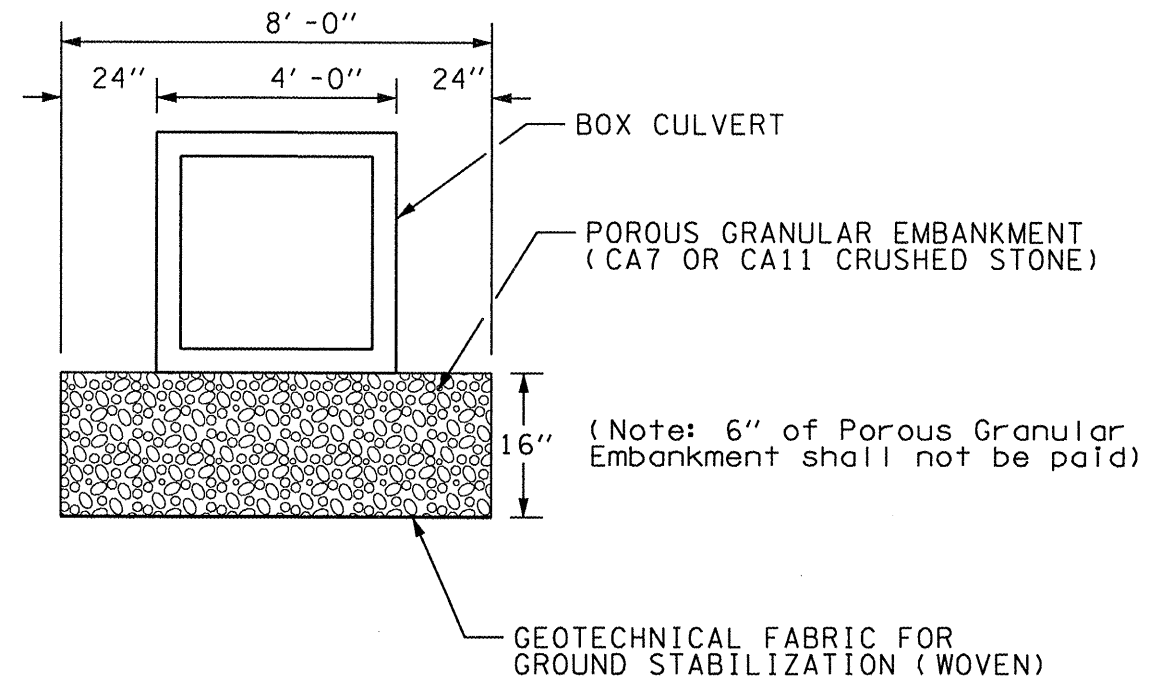
GENERAL NOTES

- The collar shall be constructed entirely of CLASS SI CONCRETE and in accordance with the applicable portions of section 503 of the Standard Specifications. Reinforcement bars shall conform to section 508.
- Expansion bolts shall consist of approved expansion anchors, and 3/4 (M20) hook bolts which conform to section 1006.08. These bolts shall extend at least 8" into the new concrete.

All dimensions are in inches unless otherwise noted.



LOCATION 1: 1080+50 RT.



LOCATION 2: 1094+30 RT

GENERAL NOTES:

Undercut depths based on soil borings.
 Final undercut depths to be determined in the field and verified by the Engineer.

NOT TO SCALE

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

FILE NAME = D468724-sh-t-plan.dgn	USER NAME = longsr	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	UNSATURABLE EXCAVATION TREATMENT FOR CULVERTS	F.A.P. RTE. 639	SECTION (125)I-1	COUNTY Mercer	TOTAL SHEETS 33	SHEET NO. 12	
PLOT SCALE = 2,000' / IN.						CONTRACT NO. 68929					
PLOT DATE = 4/8/2010						SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____					
						FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT					



Illinois Department
of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 9/3/09

ROUTE FAP 639 (IL 17) DESCRIPTION IL 17 at culverts located east of Aledo, IL (Greene County Road District) LOGGED BY MAG

SECTION (125)I-1 LOCATION . SEC. 17, TWP. 14 N, RNG. 2 W, 4th PM,

COUNTY Mercer DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. _____	D	B	U	M	Surface Water Elev. _____ - ft	D	B	U	M
Station _____	E	L	C	O	Stream Bed Elev. _____ - ft	E	L	C	O
	P	O	S	I		P	O	S	I
BORING NO. <u>B-1</u>	T	W	S	T	Groundwater Elev.: _____	T	W	S	T
Station <u>1080+00</u>	H	S	Qu	T	First Encounter <u>None</u> ft	H	S	Qu	T
Offset <u>13.3ft RT</u>					Upon Completion <u>82.8</u> ft				
Ground Surface Elev. <u>99.25</u> ft	(ft)	(/6")	(tsf)	(%)	After _____ Hrs. <u>N/A</u> ft	(ft)	(/6")	(tsf)	(%)

98.75 Stiff Dark Gray, Dry CLAY, trace gravel	3			Very Stiff to Stiff Light Gray, Dry SILTY LOAM (continued) 3" Seam of Brown SILTY LOAM at 21'	12			
98.45	3	1.4	24		14	4.6		
Stiff Brown and Gray, Dry CLAY LOAM, trace gravel	4	B			16	P	12	
	1				10			
	1	1.4	29		16	1.8	12	
	-5	2	P		-25	20	S	
92.75 Very Stiff to Stiff Dark Gray, Dry SILTY CLAY LOAM, trace gravel	2	2.5	26	Very Stiff Gray, Dry SILT, trace gravel	14			
	2	P			26	4.6	15	
	3				37	S		
90.25 Very Stiff Gray and Brown, Dry SILTY CLAY, trace gravel	2	1.3	27		24			
	2	P	22		50	3.5	12	
	-10	4	P		-30	70	P	
87.75 Stiff Black, Dry CLAY LOAM, trace gravel	1	1.5	33					
	2	P						
	3				33			
	1				100/4"	2.4	18	
	-15	3	B		-35	B		
82.75 Very Hard Light Brown and Gray, Dry SILTY LOAM	6	11.0	16	End of Boring				
	9	P						
	11							
80.25	14							
	19	2.8	13					
	-20	19	S		-40			

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

BBS, form 137 (Rev. 8-99)



Illinois Department
of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 9/3/09

ROUTE FAP 639 (IL 17) DESCRIPTION IL 17 at culverts located east of Aledo, IL (Greene County Road District) LOGGED BY MAG

SECTION (125)I-1 LOCATION . SEC. 17, TWP. 14 N, RNG. 2 W, 4th PM,

COUNTY Mercer DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. _____	D	B	U	M	Surface Water Elev. _____ - ft	D	B	U	M
Station _____	E	L	C	O	Stream Bed Elev. _____ - ft	E	L	C	O
	P	O	S	I		P	O	S	I
BORING NO. <u>B-2</u>	T	W	S	T	Groundwater Elev.: _____	T	W	S	T
Station <u>1094+20</u>	H	S	Qu	T	First Encounter <u>61.6</u> ft	H	S	Qu	T
Offset <u>14.0ft RT</u>					Upon Completion <u>None</u> ft				
Ground Surface Elev. <u>101.58</u> ft	(ft)	(/6")	(tsf)	(%)	After _____ Hrs. <u>N/A</u> ft	(ft)	(/6")	(tsf)	(%)

101.08 GRAVEL (fiii)								
Very Soft to Stiff Brown and Gray, Dry CLAY, trace gravel, organics	0			Very Stiff to Hard Brown and Gray, Dry SILTY CLAY, trace gravel	4	2.6	20	
	2		26		4	S		
	2				5			
	2				3			
	2	0.2	14		4	3.5	18	
	-5	2	B		-25	6	S	
96.08 Stiff to Soft Brown and Gray, Dry CLAY, trace gravel, organics	1				4			
	2	1.3	29		5	6.0	18	
	2	P			7	S		
73.08 Very Stiff Brown and Gray, Dry SILTY CLAY, trace gravel, organics	1				4			
	2	0.5	22		7	3.5	14	
	-10	4	B		-30	10	S	
90.58 Stiff Light Gray, Dry CLAY	2	2.0	24					
	3	B						
87.58 Medium Stiff Black, Dry CLAY LOAM, trace organics	1	1.0	28	Very Hard Light Gray, Dry SILTY LOAM	29			
	2	B			64		11	
	-15	4	B		-35	36/2"		
	2							
	2	0.8	45					
	3	B						
62.58 Very Hard, Dark Gray, Dry SILTY LOAM	2	0.8	36	End of Boring	17			
	1	B			70		14	
	-20	3	B		-40	30/2"		

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)

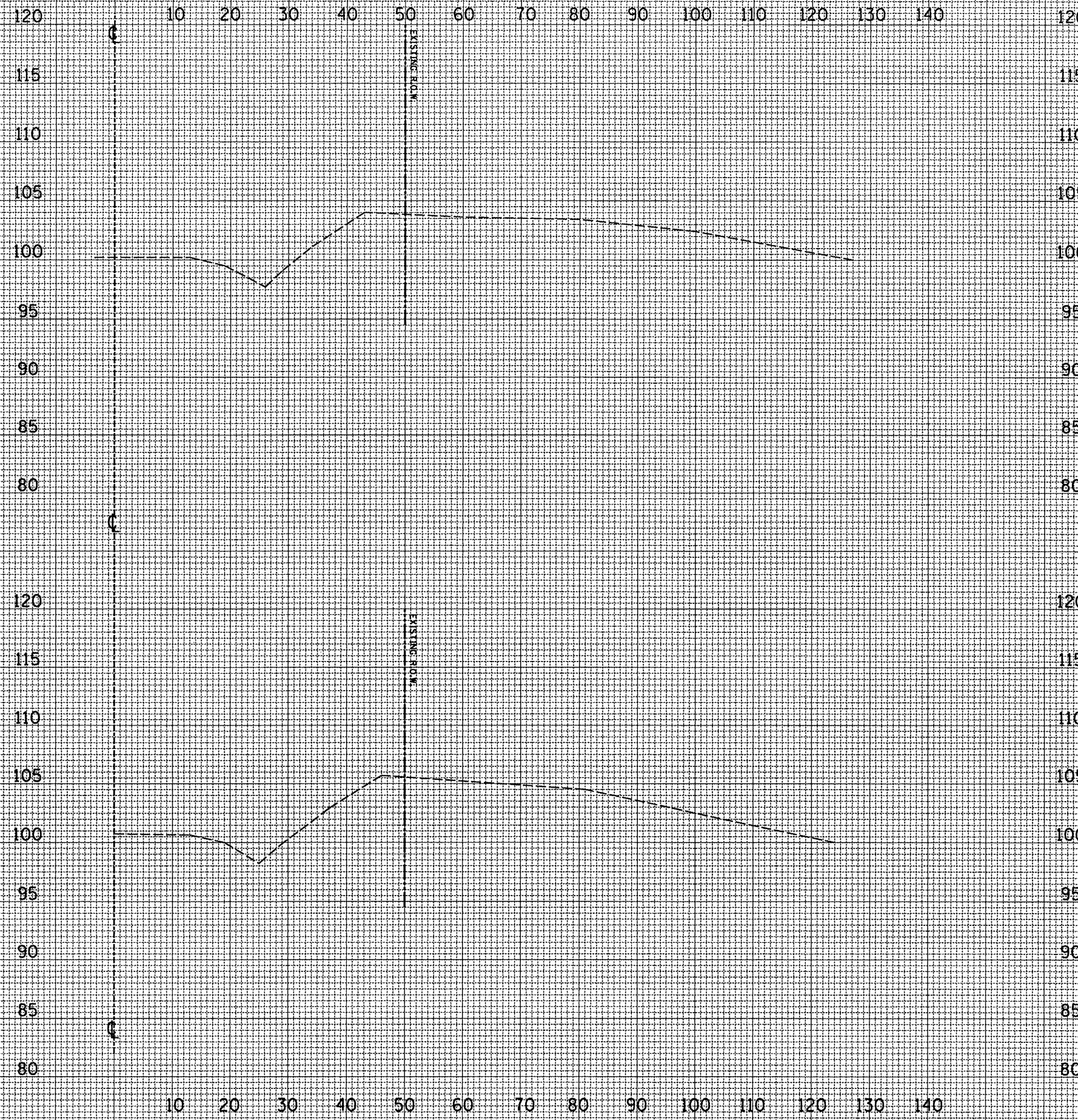
BBS, form 137 (Rev. 8-99)

SOIL BORING LOGS

FILE NAME = D468784-shr-plan.dgn	USER NAME = longsr	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS		F.A.P. RTE. 639	SECTION (125)I-1	COUNTY MERCER	TOTAL SHEETS 33	SHEET NO. 13	
	PLOT SCALE = 40.0000' / IN.	DRAWN - HZS--IQOI	REVISED - _____		SCALE: _____	SHEET NO. ____ OF ____ SHEETS	STA. 1080+00 TO STA. 1094+20	CONTRACT NO. 68929				
	CHECKED - _____	DATE - _____	REVISED - _____		ILLINOIS FED. AID PROJECT							
	PLOT DATE = 4/8/2010											

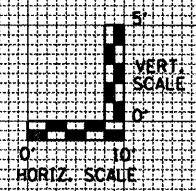
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NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

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



STA. 1078+25
IMPROVEMENT BEGINS
LOCATION #1

STA. 1078+00



FILE NAME =
D468704-sht.plt.dgn

USER NAME = K.KILMAN
PLOT SCALE = 20,0000' / IN.
PLOT DATE = 4/8/2010

DESIGNED - ---	REVISED - ---
DRAWN - KKK	REVISED - ---
CHECKED - ---	REVISED - ---
DATE - -----	REVISED - ---

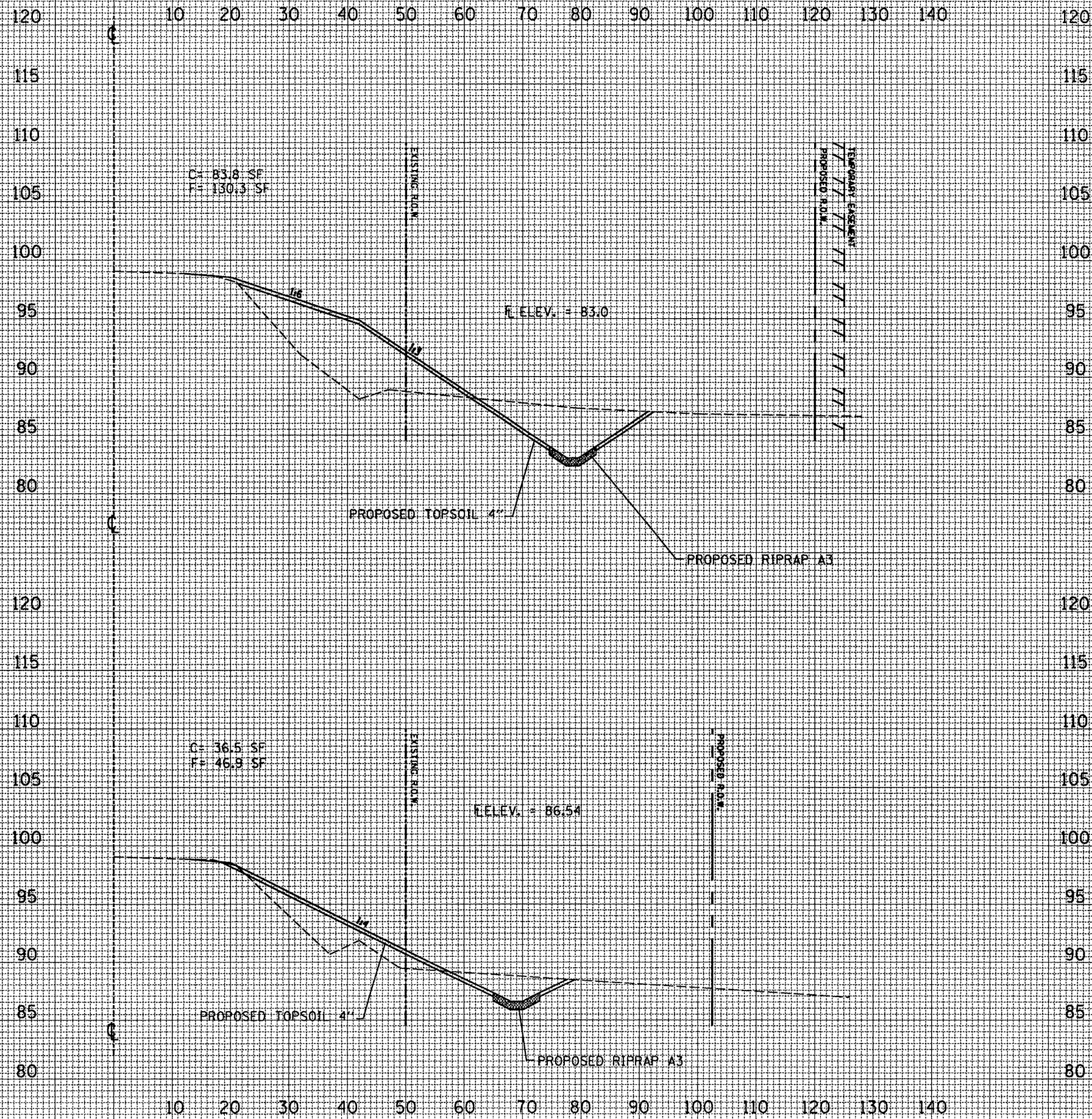
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 17 - LOCATION 1
SCALE: 1"=10'H/5'V SHEET NO. 3 OF 13 SHEETS STA. 1078+00 TO STA. 1078+19

F.A.P. RTE. 639	SECTION (125)1-1	COUNTY MERCER	TOTAL SHEETS 33	SHEET NO. 14
CONTRACT NO. 68929				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

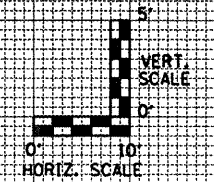
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BY	
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DATE	
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



STA. 1079+25

STA. 1079+00



FILE NAME = D468704-sht-plan.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

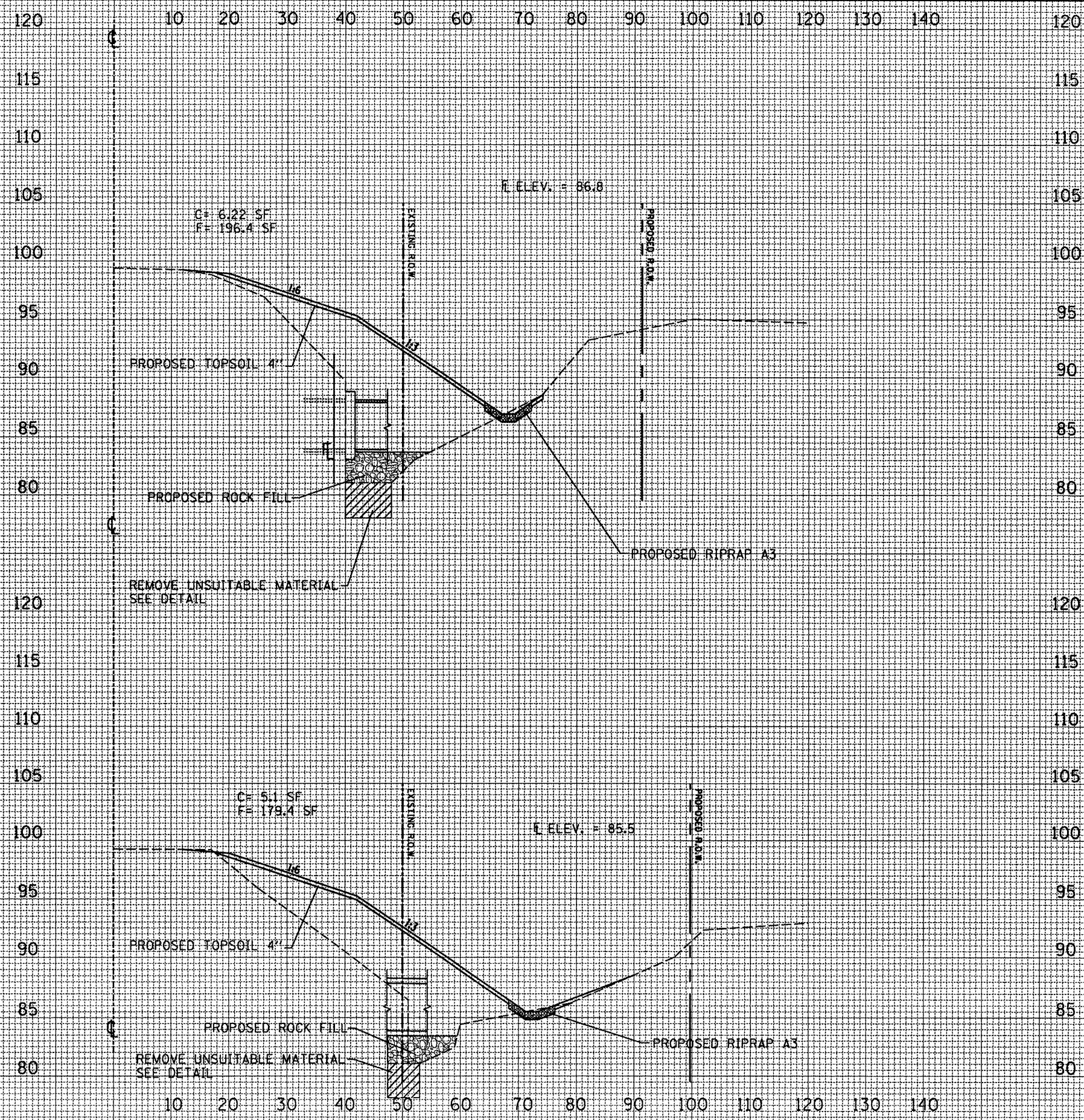
CROSS SECTIONS
IL 17 - LOCATION 1

SCALE: 1"=10'H/5'V SHEET NO. 5 OF 13 SHEETS STA. 1079+00 TO STA. 1079+25

F.A.P. RTE. 639	SECTION (125)I-1	COUNTY MERCER	TOTAL SHEETS 33	SHEET NO. 16
CONTRACT NO. 68929				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

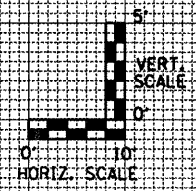
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BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	



STA. 1080+16

STA. 1080+04



FILE NAME = D468704-sht-plen.dgn

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	DRAWN - KKK	REVISED - ---
PLOT SCALE = 20.0000' / IN.	CHECKED - ---	REVISED - ---
PLOT DATE = 4/8/2010	DATE - ---	REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

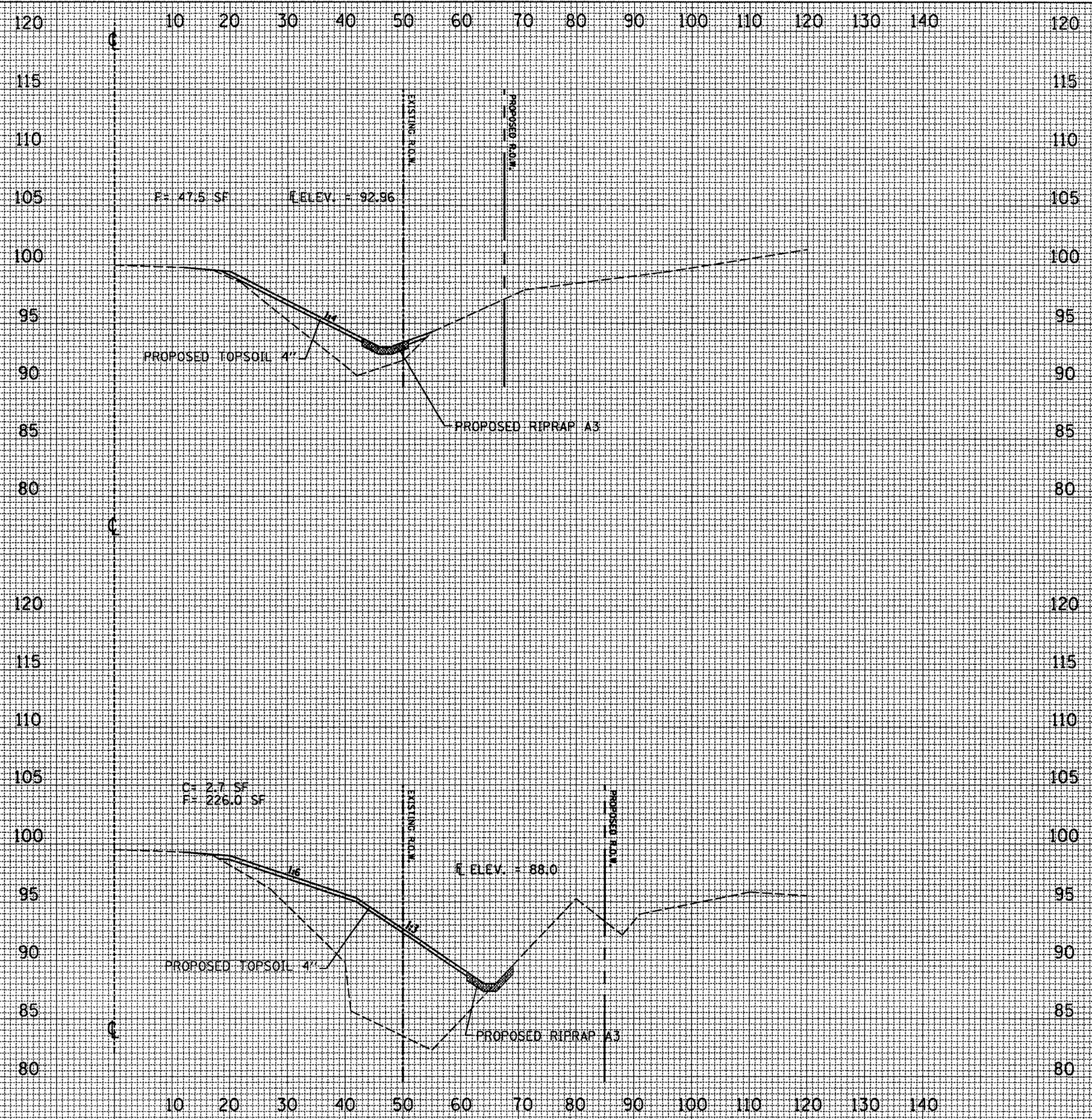
CROSS SECTIONS
IL 17

SCALE: 1"=10'H/5'V SHEET NO. 7 OF 13 SHEETS STA. 1080+04 TO STA. 1080+16

F.A.P. RTE. 639	SECTION (125)I-1	COUNTY MERCER	TOTAL SHEETS 33	SHEET NO. 18
CONTRACT NO. 68929				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

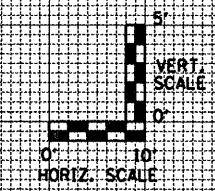
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NOTE BOOK NO.	PLOTTED		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AS AREA CHECKED		



STA. 1080+50

STA. 1080+25



FILE NAME = 0468704-sht.pln.dgn

USER NAME = K.KILMAN	DESIGNED - ---	REVISED - ---
PLOT SCALE = 20.0000' / IN.	DRAWN - KKK	REVISED - ---
PLOT DATE = 4/8/2010	CHECKED - ---	REVISED - ---
	DATE - ---	REVISED - ---

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

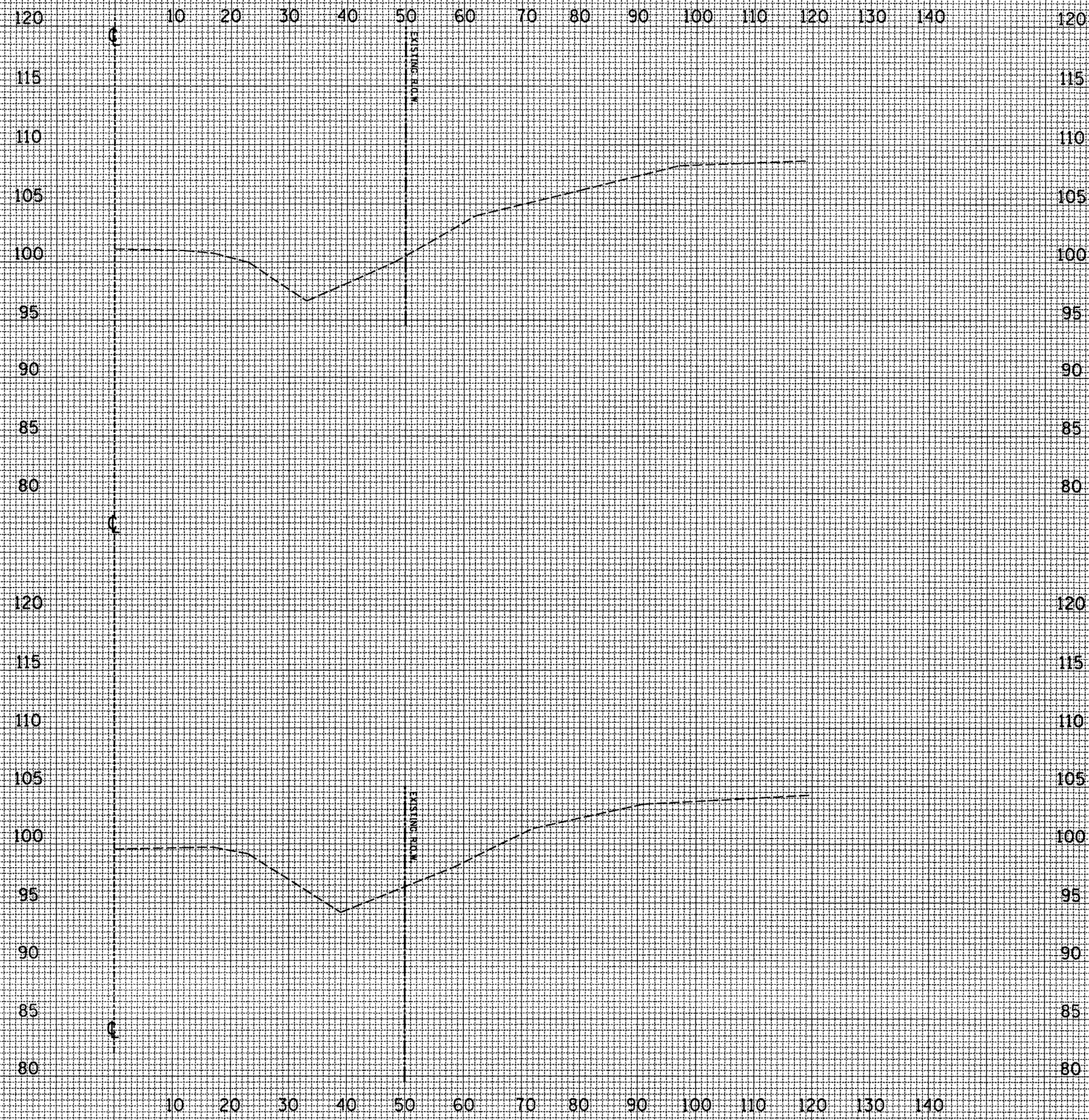
**CROSS SECTIONS
IL 17 - LOCATION 1**

SCALE: 1"=10'H/5'V SHEET NO. 8 OF 13 SHEETS STA. 1080+25 TO STA. 1080+50

F.A.P. RTE. 639	SECTION (125)-1	COUNTY MERCER	TOTAL SHEETS 33	SHEET NO. 19
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

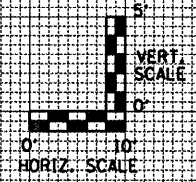
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NOTE BOOK NO.	PLOTTED		
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	AREAS CHECKED		

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



STA. 1081+00

STA. 1080+75



FILE NAME = D468704-shr-plan.dgn

USER NAME = K, KILMAN	DESIGNED - ---	REVISED - ---
PLOT SCALE = 20,0000' / IN.	DRAWN - KKK	REVISED - ---
PLOT DATE = 4/8/2010	CHECKED - ---	REVISED - ---
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

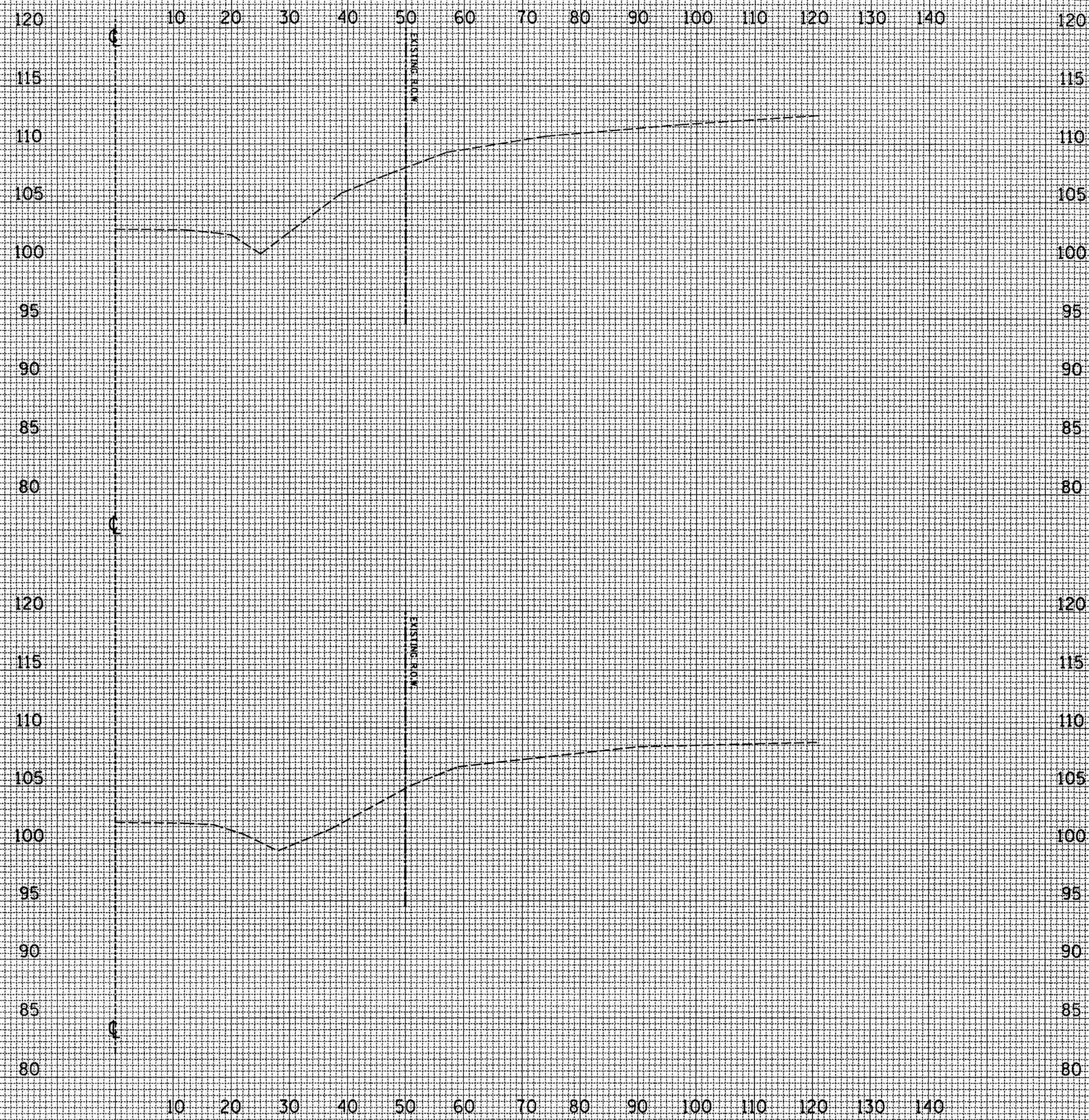
**CROSS SECTIONS
IL 17 - LOCATION 1**

SCALE: 1"=10'H/5'V SHEET NO. 9 OF 13 SHEETS STA. 1080+75 TO STA. 1081+00

F.A.P. RTE. 639	SECTION (125)-1	COUNTY MERCER	TOTAL SHEETS 33	SHEET NO. 20
CONTRACT NO. 68929				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

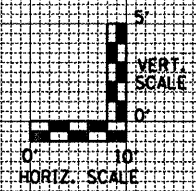
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ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



STA. 1081+50

STA. 1081+25



FILE NAME =	D:\68704\sh1-plan.dgn
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USER NAME =	K. KILMAN
PLOT SCALE =	20.0000' / IN.
PLOT DATE =	4/8/2010

DESIGNED -	---
DRAWN -	KKK
CHECKED -	---
DATE -	-----

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

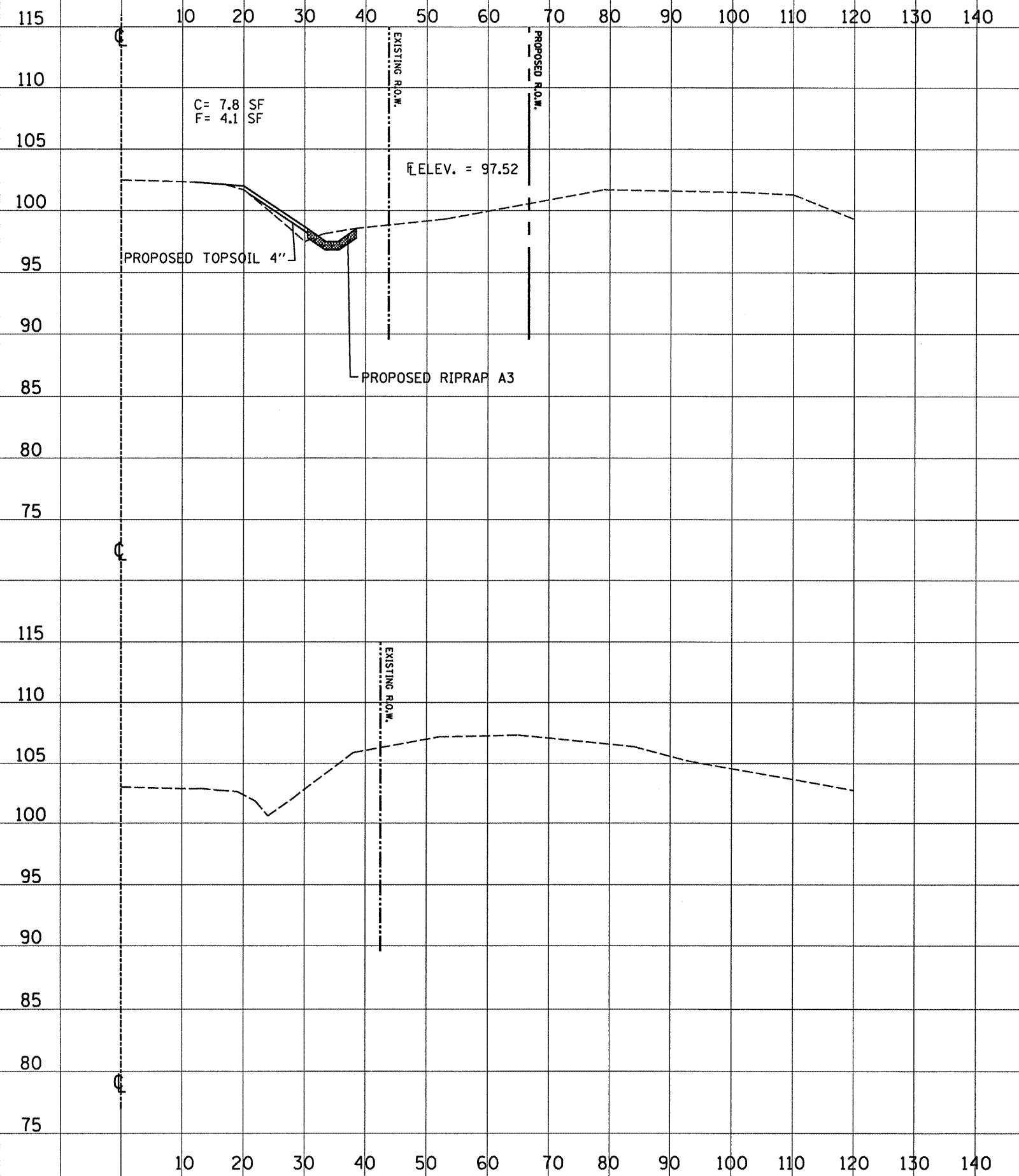
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS IL 17 - LOCATION 1	
SCALE: 1"=10'H/5'V	SHEET NO. 10 OF 13 SHEETS
STA. 1081+25 TO STA. 1081+50	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
639	(125)-1	MERCER	33	21
CONTRACT NO. 68929				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
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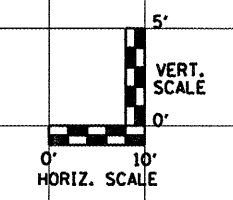
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STA. 1093+75

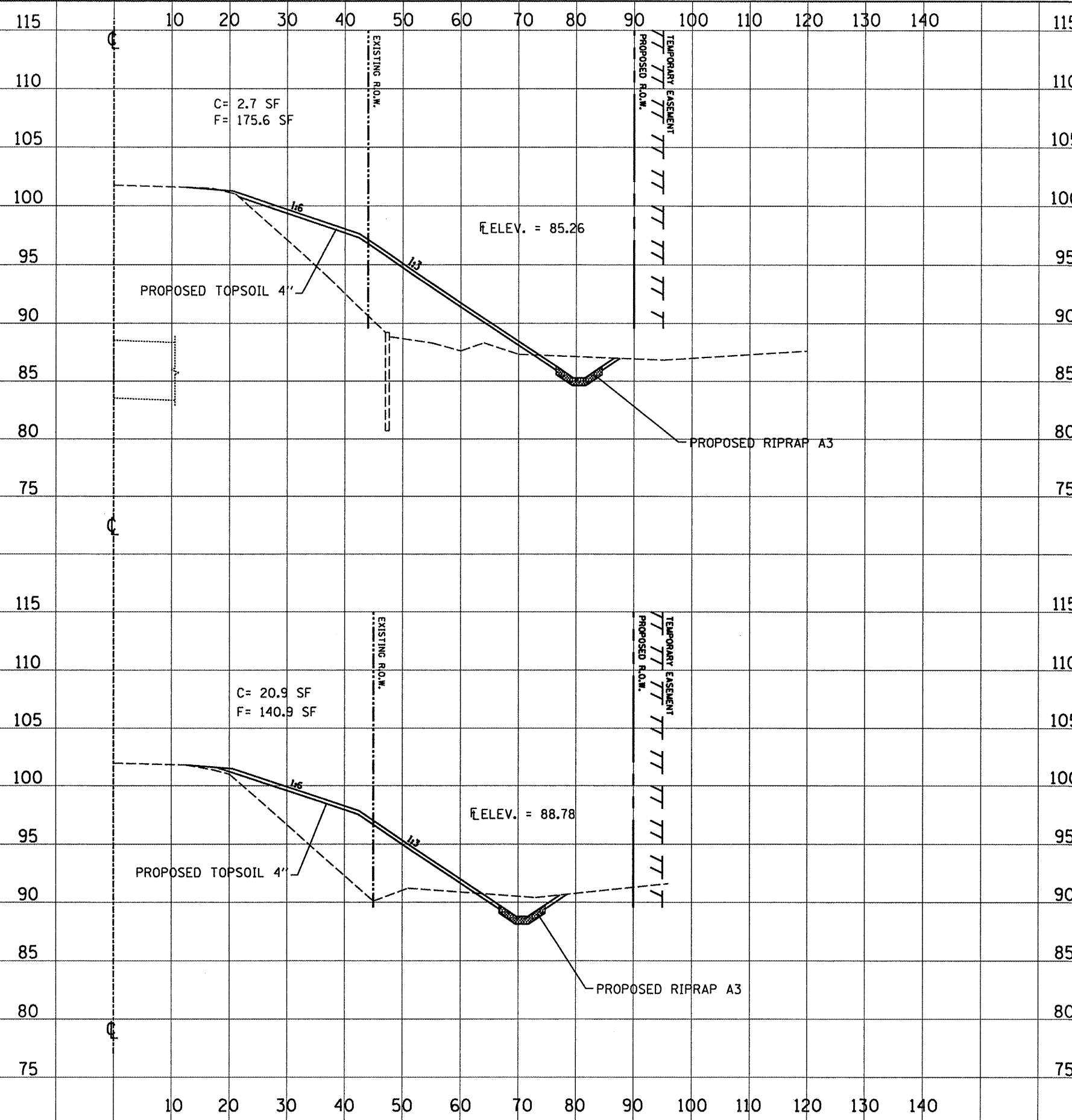
STA. 1093+50

IMPROVEMENT BEGINS
LOCATION #2



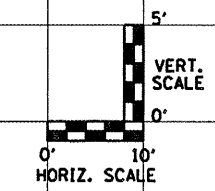
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STA. 1094+20

STA. 1094+00



FILE NAME = D:\68704\shc-plan.dgn

USER NAME = K.KILMAN	DESIGNED - ---	REVISOR - ---
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PLOT SCALE = 20,0000' / IN.	CHECKED - ---	REVISOR - ---
PLOT DATE = 4/8/2010	DATE - ---	REVISOR - ---

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

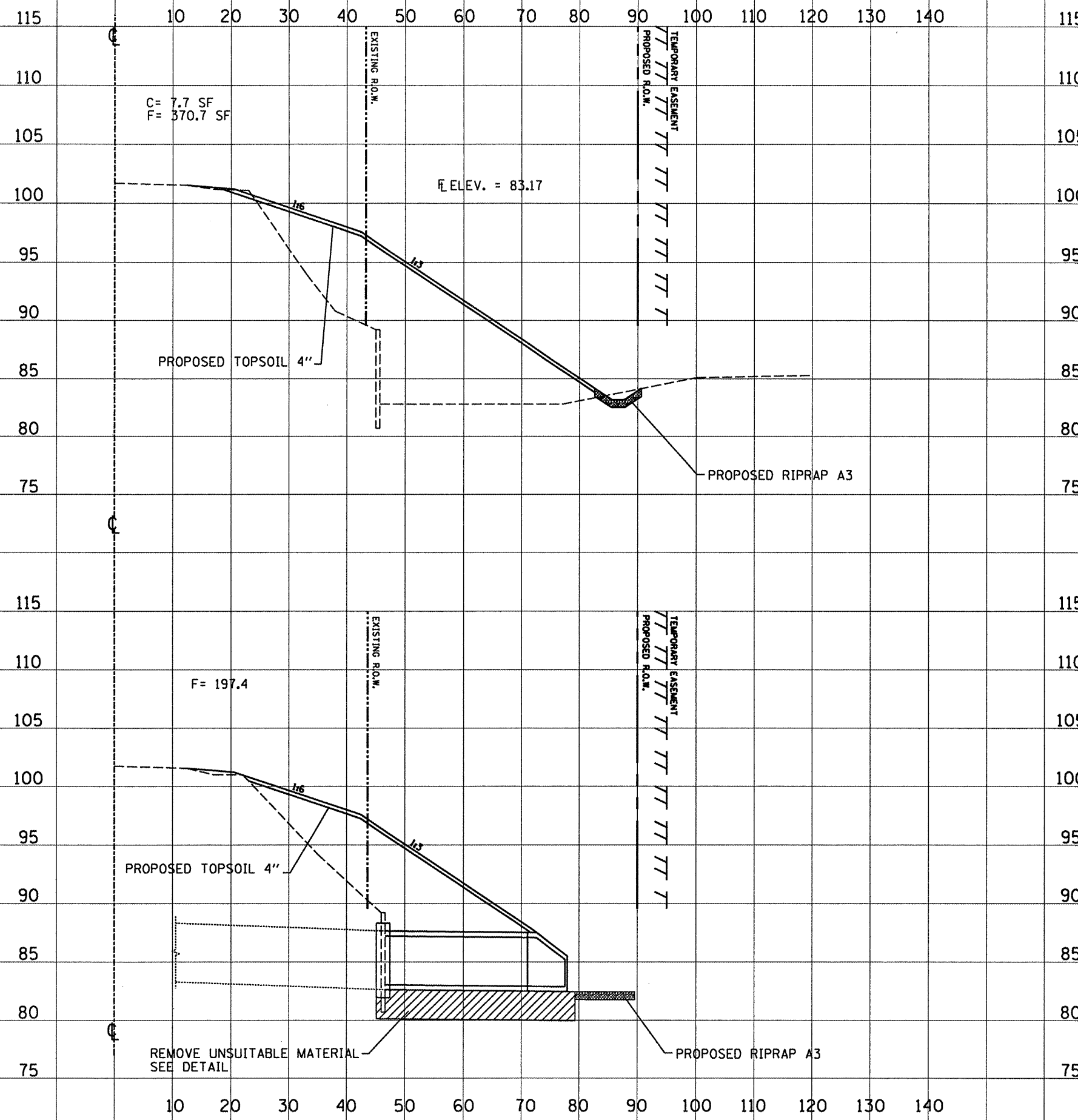
**CROSS SECTIONS
IL 17 - LOCATION 2**

SCALE: 1"=10'H/5'V SHEET NO. OF SHEETS STA.

F.A.P. RTE. 639	SECTION (125)1-1	COUNTY MERCER	TOTAL SHEETS 33	SHEET NO. 23
CONTRACT NO. 68929				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

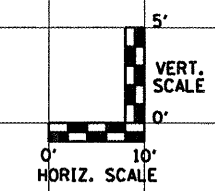
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TEMPLATE	
NOTE BOOK	
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NOTE BOOK	
AREAS CHECKED	



STA. 1094+35

STA. 1094+22



FILE NAME = D468704-shr-plan.dgn

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PLOT SCALE = 20.0000' / IN.	DRAWN - KKK	REVISED -
PLOT DATE = 4/8/2010	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

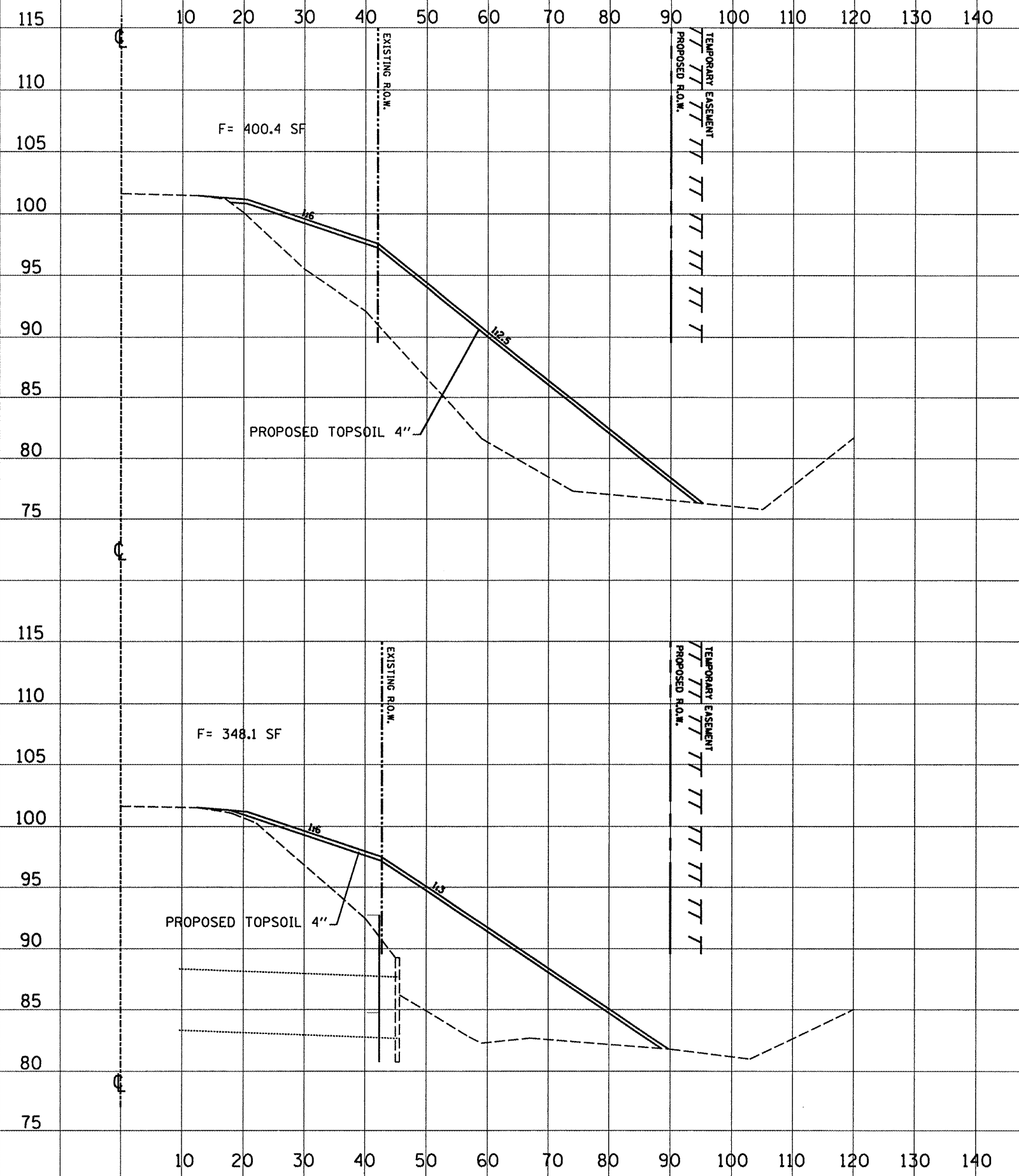
**CROSS SECTIONS
IL 17 - LOCATION 2**

SCALE: 1"=10'H/5'V SHEET NO. OF SHEETS STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
639	(125)-1	MERCER	33	24
CONTRACT NO. 68929				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

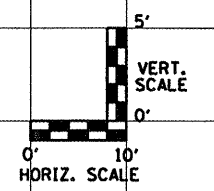
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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ORIGINAL SURVEY	
NOTE BOOK	
NO.	



STA. 1094+60

STA. 1094+45



FILE NAME = D468704-shr-plot.dgn

USER NAME = K. KILMAN	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN - KKK	REVISED -
PLOT DATE = 4/8/2010	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

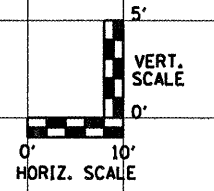
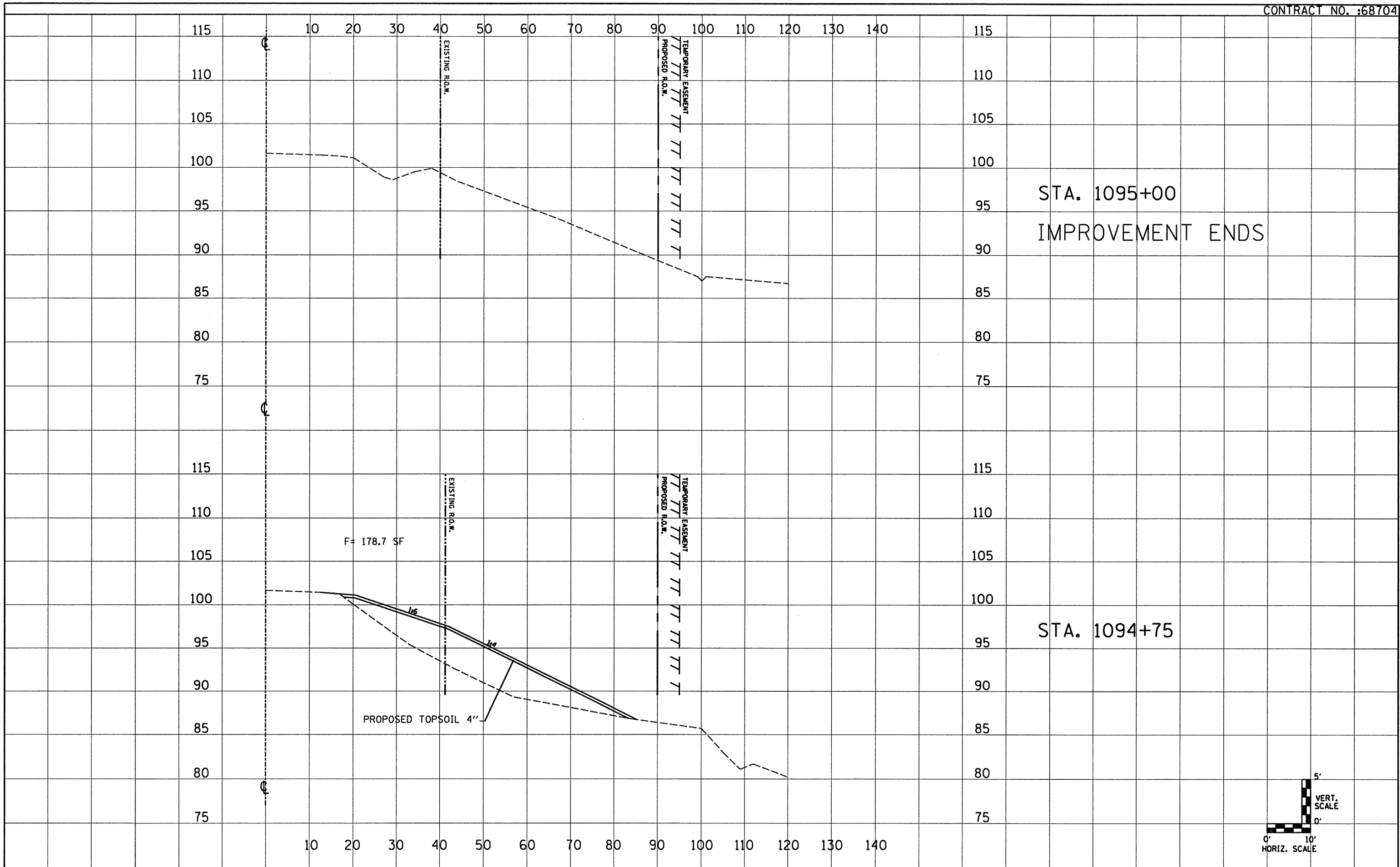
**CROSS SECTIONS
IL 17 - LOCATION 2**

SCALE: 1"=10'H/5'V SHEET NO. OF SHEETS STA.

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CONTRACT NO. 68929				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

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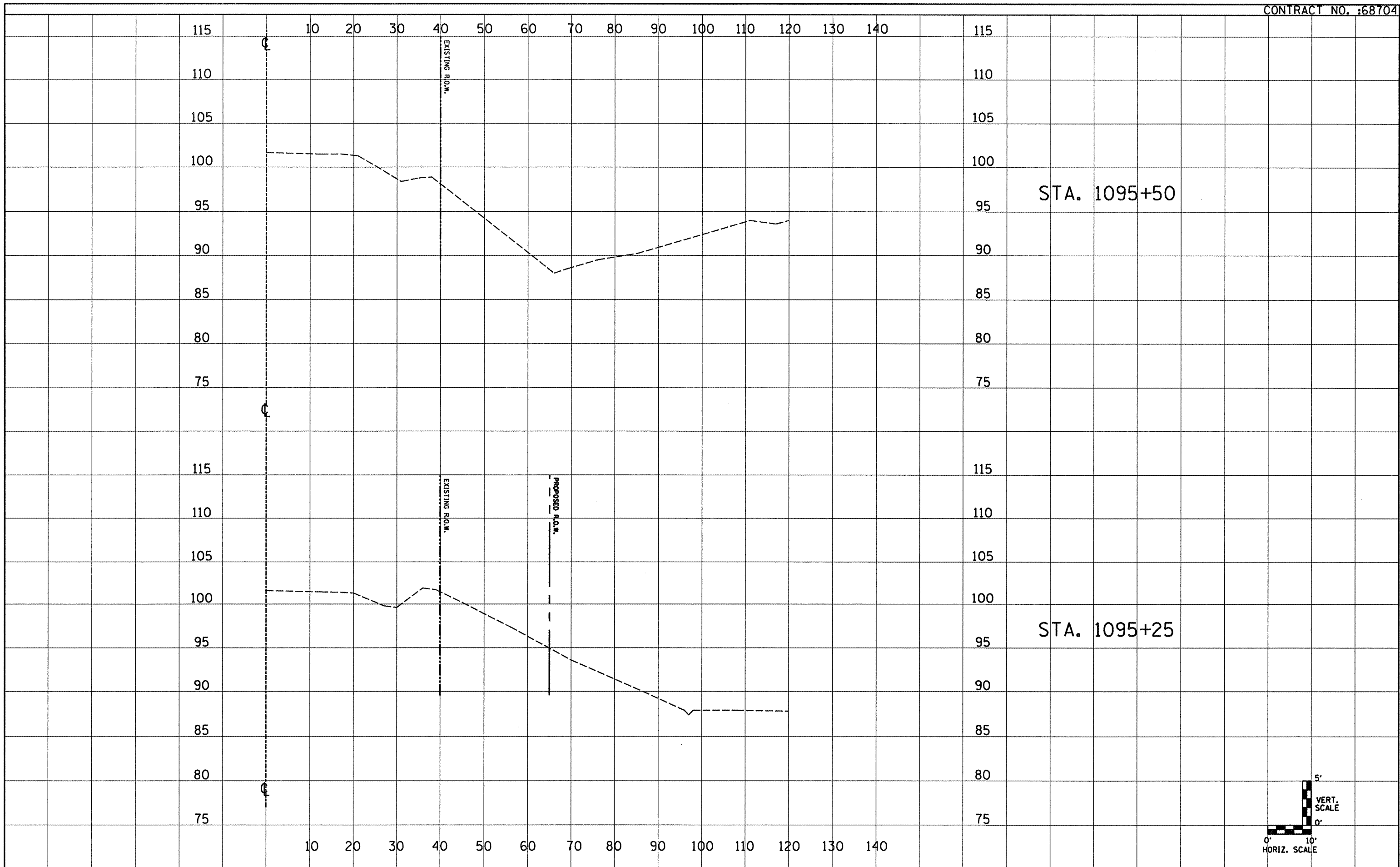
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PLOT DATE = 4/8/2010		DATE - ---	REVISED - ---			FED. ROAD DIST. NO. -		[ILLINOIS] FED. AID PROJECT				

DATE	
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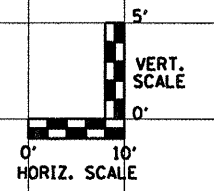
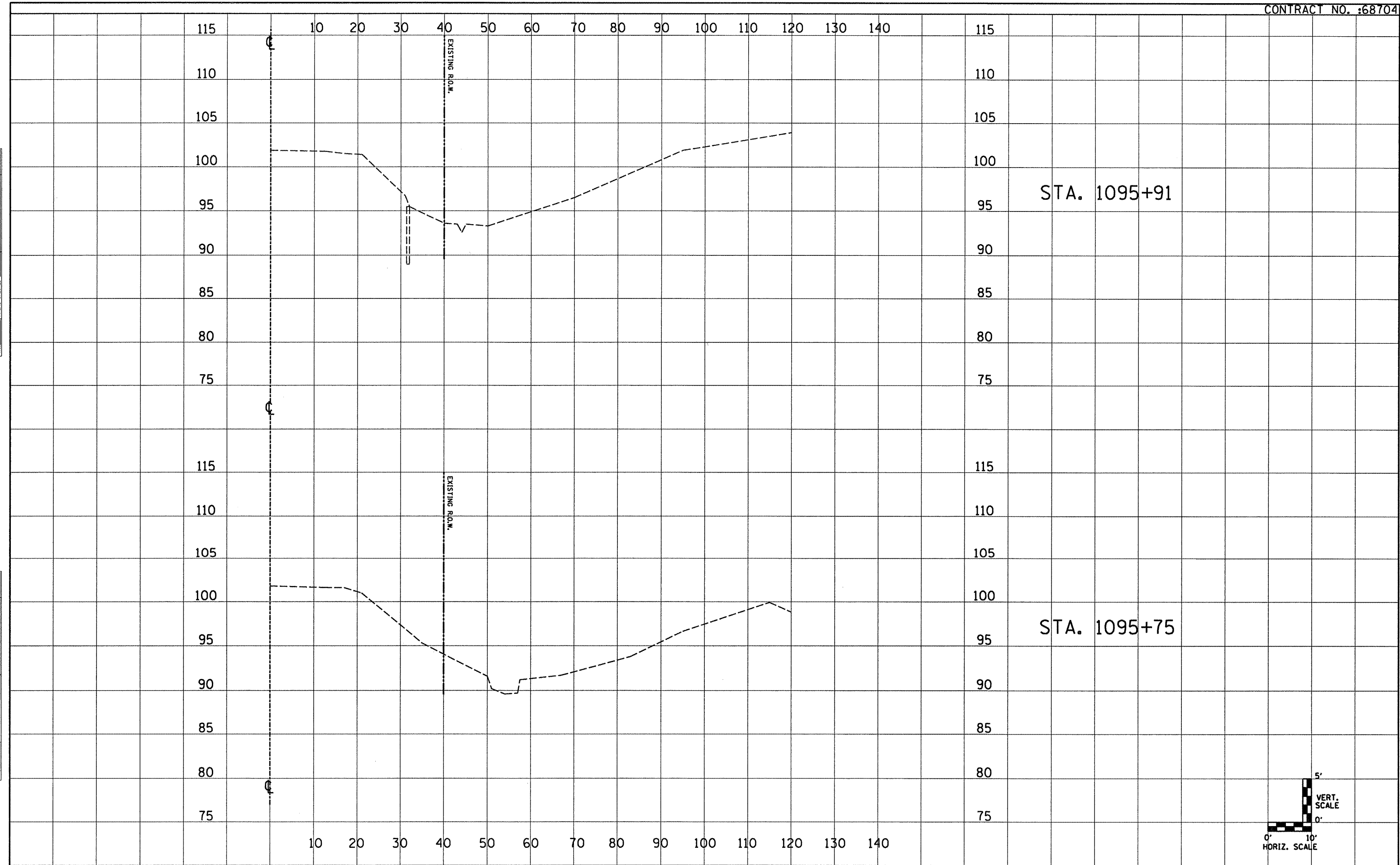
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DATE	
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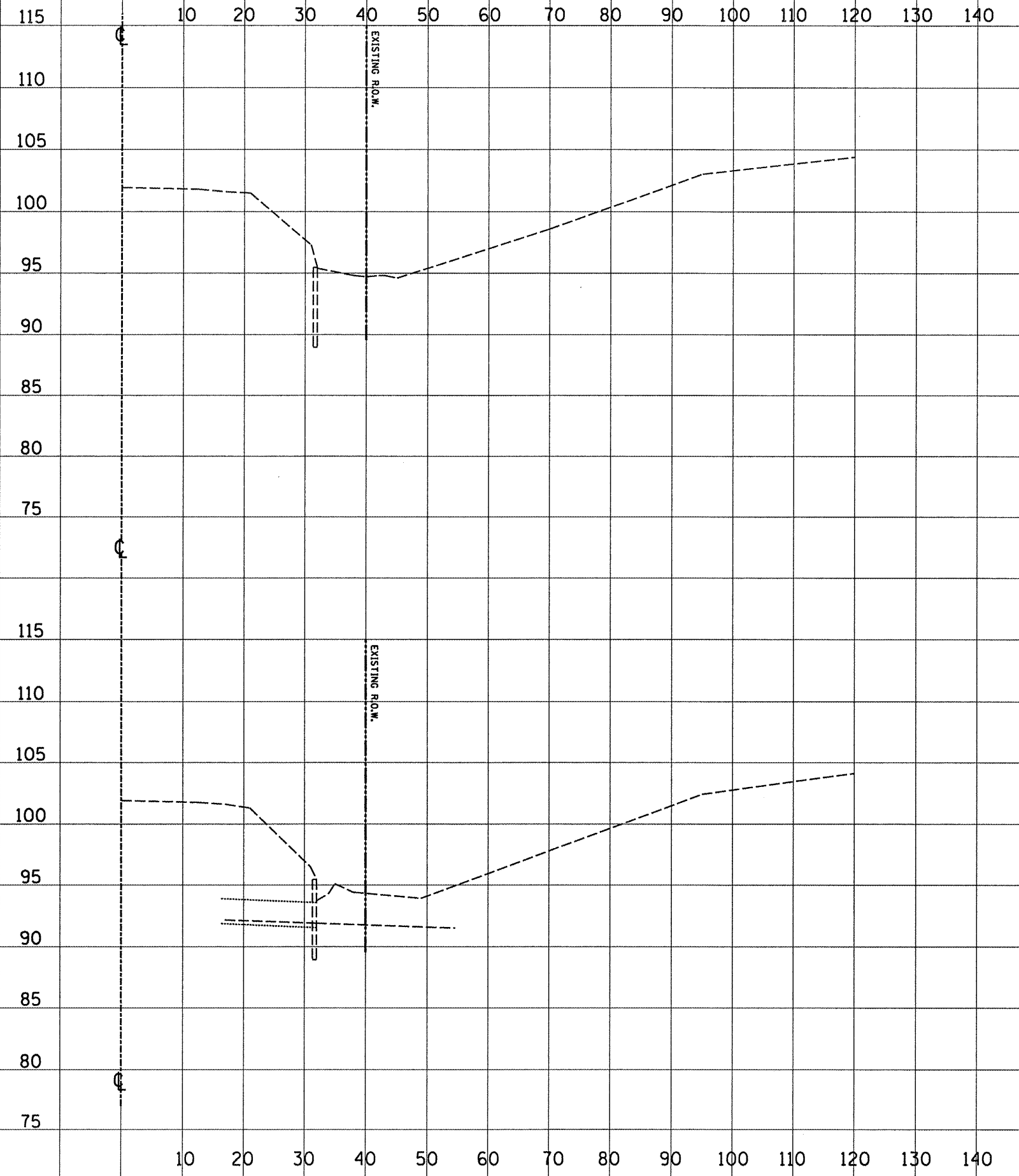
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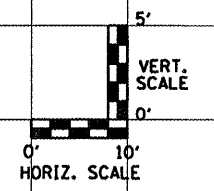
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ORIGINAL SURVEY	DATE
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STA. 1095+99

STA. 1095+95



FILE NAME = D468704-sh1-plan.dgn

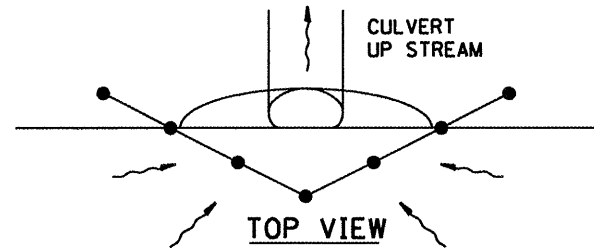
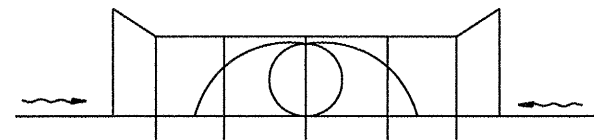
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	DATE - ---	REVISED - ---

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

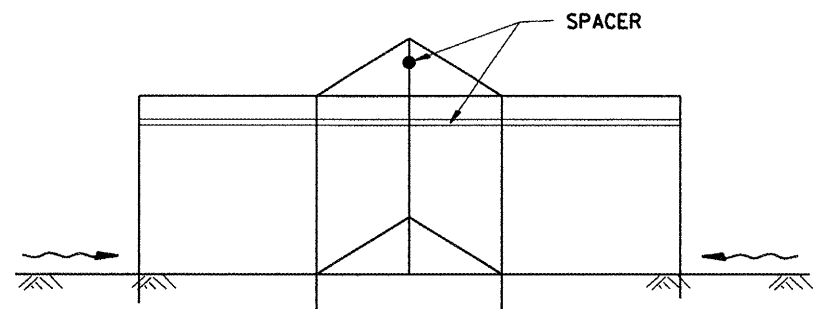
**CROSS SECTIONS
IL 17 - LOCATION 2**

SCALE: 1"=10'H/5'V SHEET NO. OF SHEETS STA.

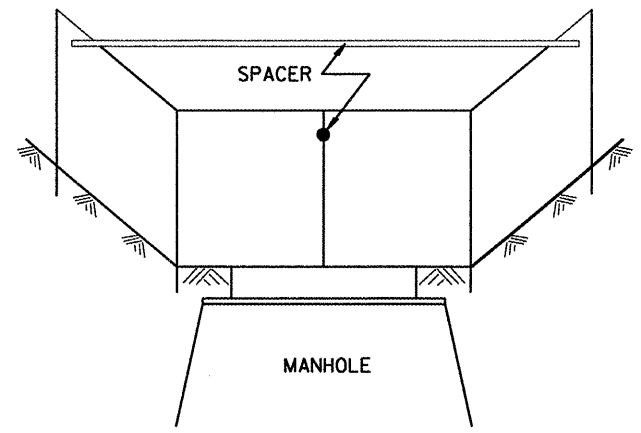
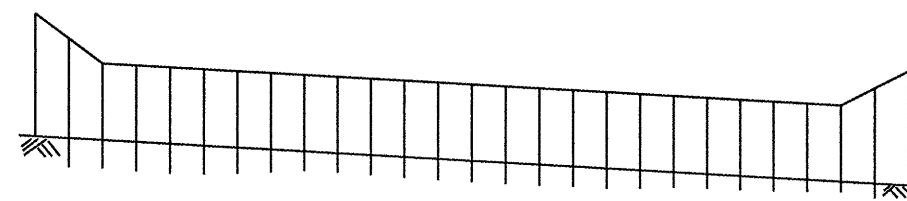
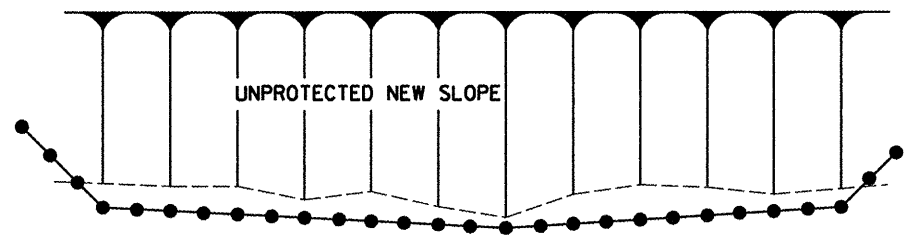
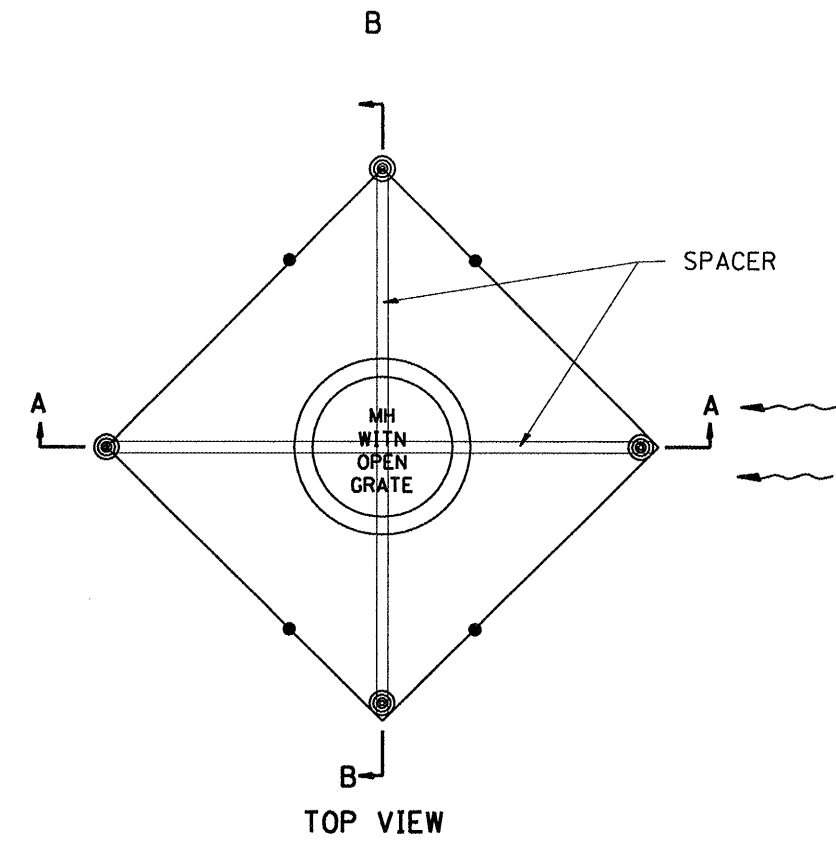
F.A.P. RTE. 639	SECTION (125)-1	COUNTY MERCER	TOTAL SHEETS 33	SHEET NO. 29
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



UPSTREAM PIPE CULVERT EROSION CONTROL



SIDE VIEW
A-A



Front View
B-B
EROSION CONTROL
AT
OPEN GRATE MAN HOLE

GENERAL NOTES:

1. This work shall be performed in accordance with Sections 280 & 1081, of the Standard Specifications.
2. Additional Timber or Metal Post shall be installed, as needed.

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

1:1-97		T.P.	
3-11-03	ELIMINATED SILT FENCE DIICH CHECK	M.A.	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

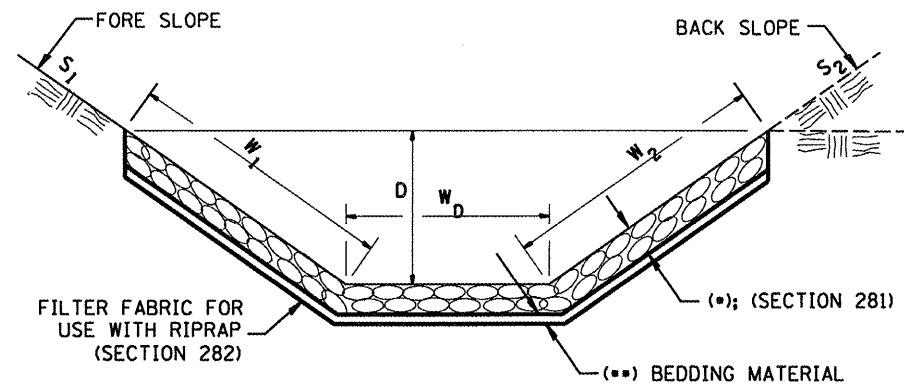
TYPICAL APPLICATION OF SILT FILTER FENCE
NOT TO SCALE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
639	(125)1-1	MERCER	33	30
CONTRACT NO. 68929				

CA00_S10_280001-04

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

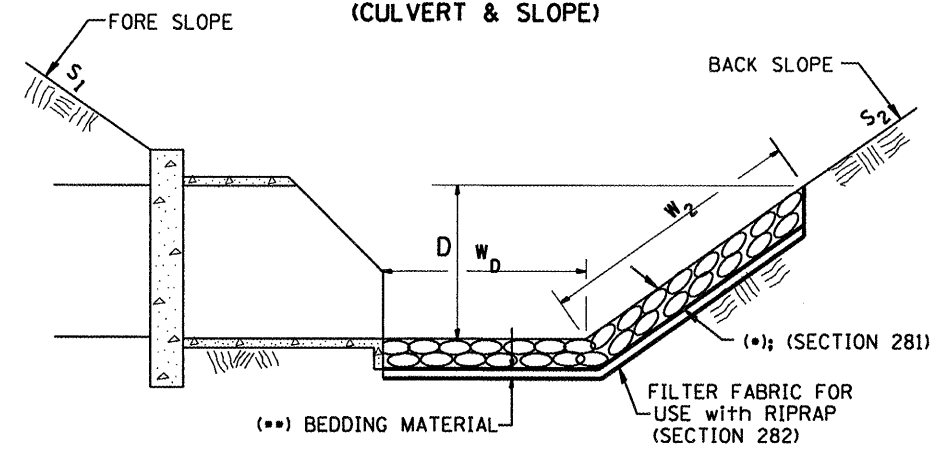
**CASE 1
(DITCH)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
TOTAL				

(1) WIDTH = $W_1 + W_2 + W_0$

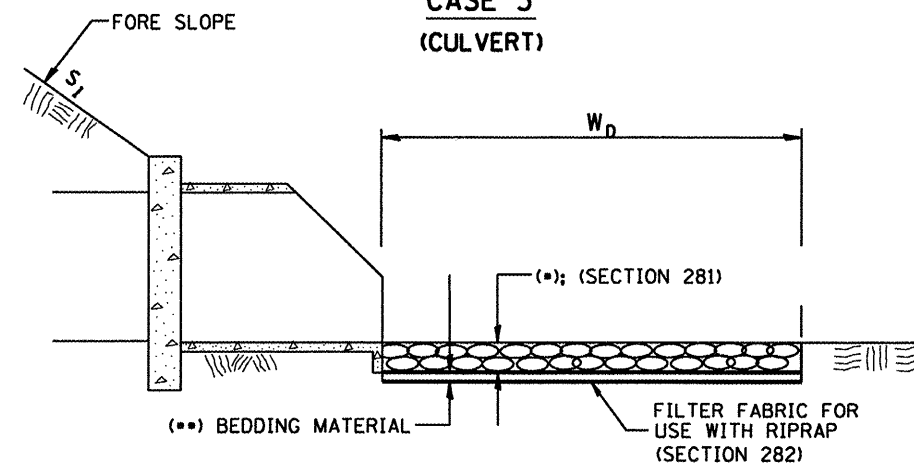
**CASE 2
(CULVERT & SLOPE)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
TOTAL				

(1) WIDTH = $W_2 + W_0$

**CASE 3
(CULVERT)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
TOTAL				

(1) WIDTH = W_0

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

1-1-97	REVIEW_A-12.02_NEW_REVISION_BOX	J.R.		
12-1-97	CORRECT_FILTER_FABRIC_LEADER_ARROW	J.A.		
10-16-06	REVISED_TO_2007_SPEC.	J.A.		

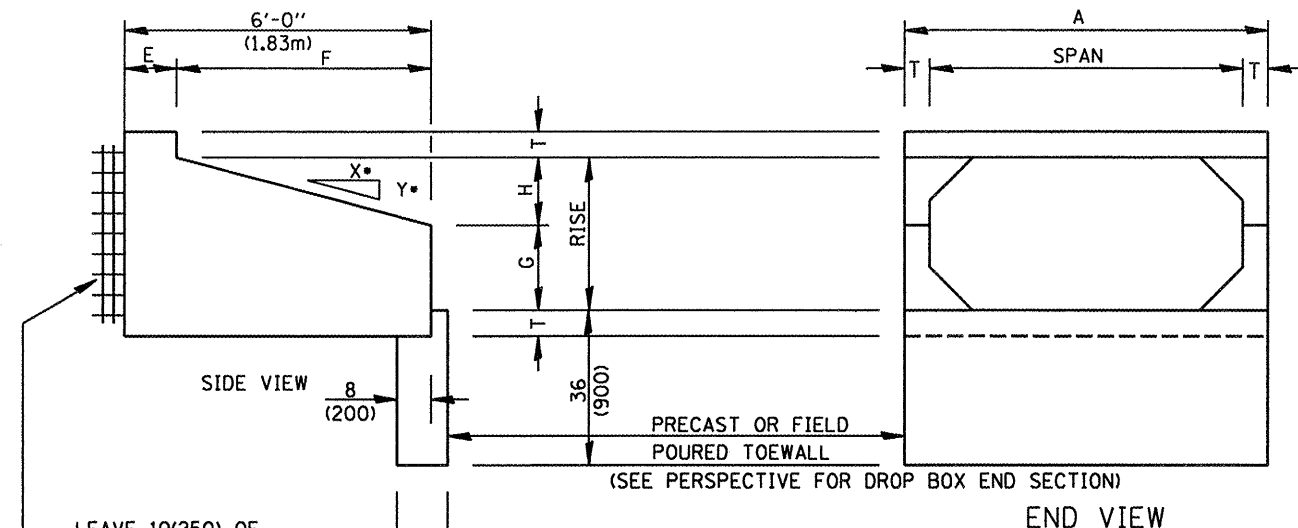
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

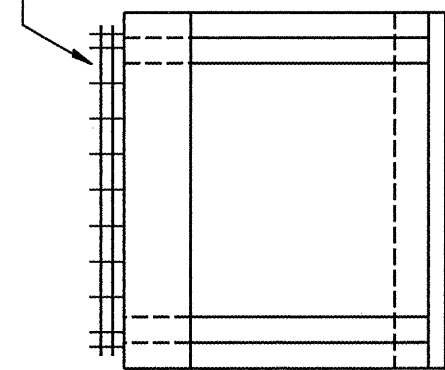
RIPRAP DITCH FOR EROSION PROTECTION

---CADQ_S10_281001-04

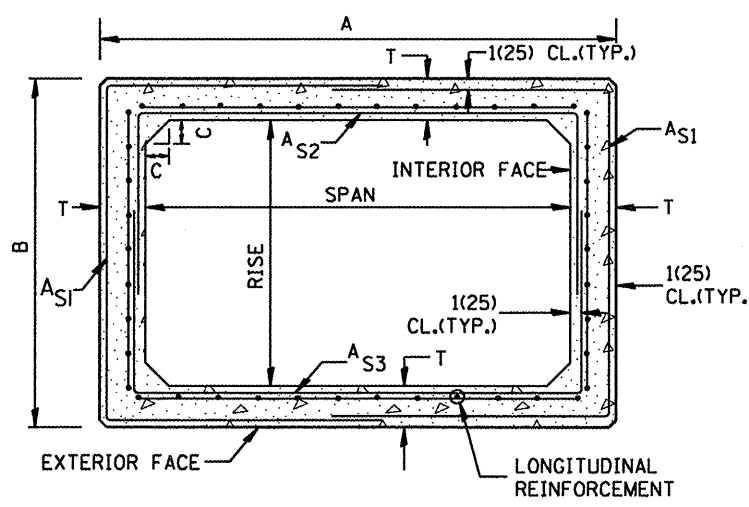
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
639	(125)I-1	MERCER	33	31
CONTRACT NO. 68929			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



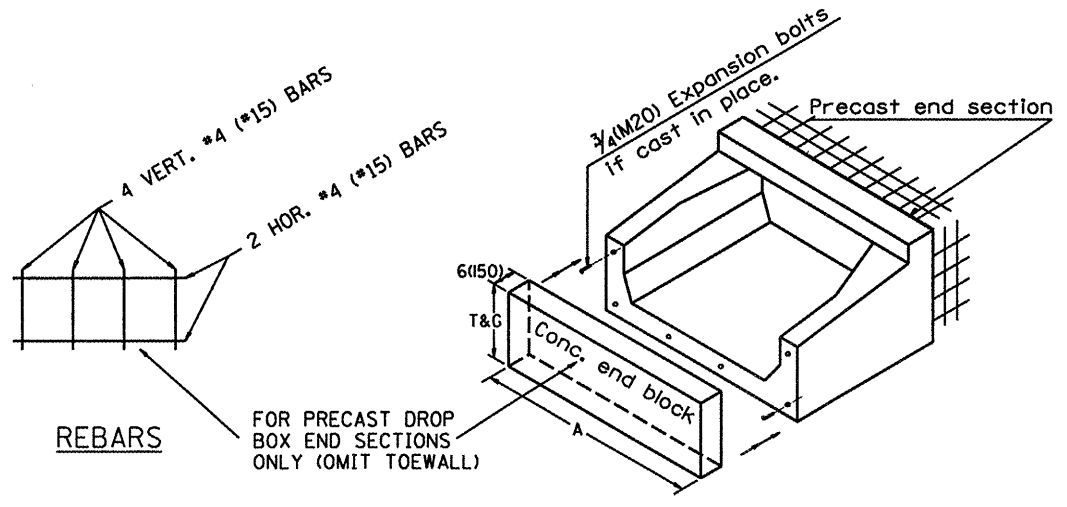
LEAVE 10(250) OF REINFORCEMENT EXPOSED AND PLACE THIS END INTO CONCRETE COLLAR



PLAN



CROSS-SECTION



PERSPECTIVE

GENERAL NOTES:

1. The Box Culvert Sections shall conform to ASTM C789 for 2' (0.6 m) cover or more. If less than 2' (0.6 m) of cover exists, then ASTM C-850 applies and modify Table 'B' and drawing.
2. The Aggregate shall conform to the requirements of Articles 1003.02 and 1004.02 of the Standard Specifications. The gradation requirements do not apply.
3. The External Sealing Band shall conform to ASTM C 877. The appropriate portions of Articles 550.02(1) and 1057.01 of the Standard Specifications shall apply.
4. Shop plans for the Precast Reinforced Box Culvert Sections, End Sections and Drop Box End Sections shall be submitted in accordance with Article 540.06 of the Standard Specifications.
5. All dimensions shall be verified with the Supplier.

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

01-01-97	BENJ.M. J-12.08 AND J-12.09 NEW FORMATS, METRICS	J.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
05-01-97	NEW REVISION BOX NOTES	J.A.			
05-01-97	CORRECT TITLE & GEN. NOTES	J.A.			
06-17-99	CORRECT DIMENSIONS	J.A.			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

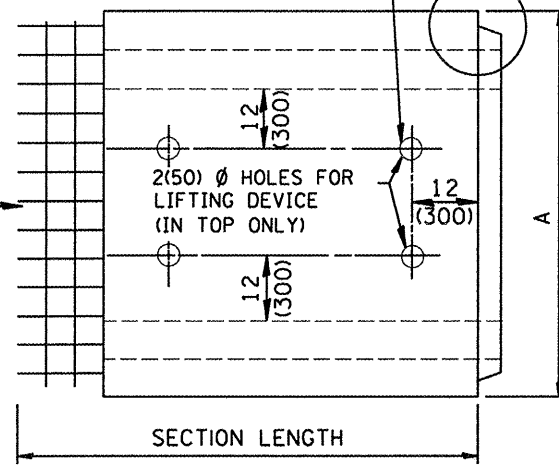
PRECAST CONCRETE BOX CULVERTS (SPECIAL),
END SECTION (SPECIAL), &
DROP BOX END SECTIONS (SPECIAL) SHI. 1.0E.2
NOT TO SCALE CADD: SIO-540401-04

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
639	(1251)-1	MERCER	33	32
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68929	

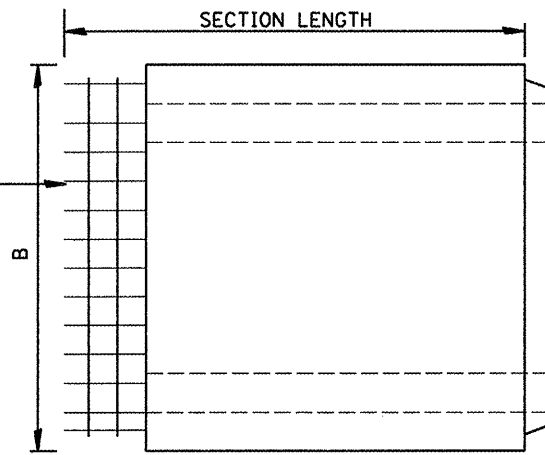
Leave 10(250) of reinforcement exposed and place this end into concrete collar

Location of lifting holes may vary as needed to clear reinforcement

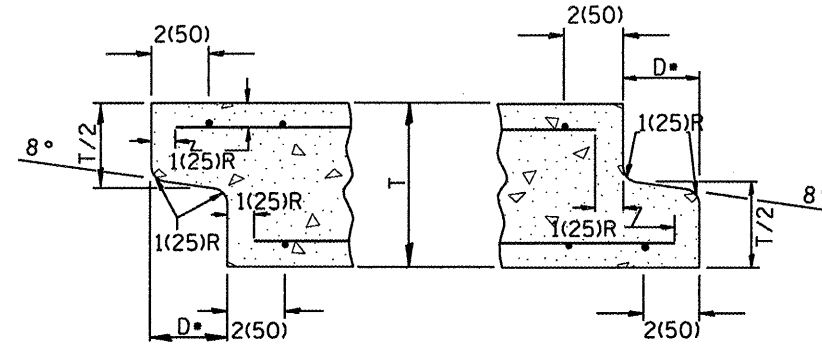
SEE DETAIL A



PLAN



ELEVATION



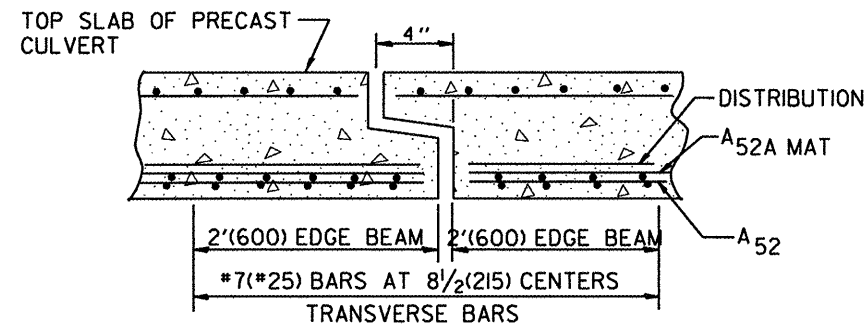
DETAIL A

(TYP. INLET END)

(TYP. OUTLET END)

NOTE: Inlet and outlet ends shall be compatible.

*The D dimension shall conform to the manufacturer's standards.



TYP. JOINT SHOWING EDGE BEAM REINFORCEMENT

NOTE: The additional Reinforcing Steel required for edge beams shall have the same length as As2A. The required area, As10, may be combined with As2 in a single mat or placed in a separate layer as shown above. The additional Steel may be Welded Wire Fabric or grade 60 Deformed Bars.

(See GENERAL NOTES on sheet 1 of 2)

(DIMENSIONS APPLY TO END SECTION AND BOX SECTION DETAILS)

SPAN X RISE ft (mm)	T in (mm)	A	B	C in (mm)	E in (mm)	F	G	H in (mm)	SLOPE (Y : X)
2x2 (600x600)	4(100)	32(815)	32(815)	4(100)	36(915)	36(915)	12(305)	12(305)	1 : 3
2x3 (600x900)	4(100)	32(815)	3'-8" (1.12m)	4(100)	24(610)	4'-0" (1.22m)	20(510)	16(410)	1 : 3
3x2 (900x600)	4(100)	3'-8" (1.12m)	32(815)	4(100)	36(915)	36(915)	12(305)	12(305)	1 : 3
3x2.5 (900x750)	4(100)	3'-8" (1.12m)	38(965)	4(100)	30(760)	3'-6" (1.07m)	16(410)	14(355)	1 : 3
3x3 (900x900)	4(100)	3'-8" (1.12m)	3'-8" (1.12m)	4(100)	24(610)	4'-0" (1.22m)	20(510)	16(410)	1 : 3
4x2 (1200x600)	5(125)	4'-10" (1.48m)	34(865)	5(125)	36(915)	36(915)	12(305)	12(305)	1 : 3
4x3 (1200x900)	5(125)	4'-10" (1.48m)	3'-10" (1.17m)	5(125)	24(610)	4'-0" (1.22m)	20(510)	16(410)	1 : 3
4x4 (1200x1200)	5(125)	4'-10" (1.48m)	4'-10" (1.48m)	5(125)	24(610)	4'-0" (1.22m)	24(610)	24(610)	1 : 2
4x5 (1200x1500)	5(125)	4'-10" (1.48m)	5'-10" (1.78m)	5(125)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
4x6 (1200x1800)	5(125)	4'-10" (1.48m)	6'-10" (2.09m)	5(125)	24(610)	4'-0" (1.22m)	4'-0" (1.22m)	4'-0" (1.22m)	1 : 2
5x2 (1500x600)	6(150)	6'-0" (1.83m)	36(915)	6(150)	36(915)	36(915)	12(305)	12(305)	1 : 3
5x3 (1500x900)	6(150)	6'-0" (1.83m)	4'-0" (1.22m)	6(150)	24(610)	4'-0" (1.22m)	20(510)	16(410)	1 : 3
5x4 (1500x1200)	6(150)	6'-0" (1.83m)	5'-0" (1.52m)	6(150)	24(610)	4'-0" (1.22m)	24(610)	24(610)	1 : 2
5x5 (1500x1500)	6(150)	6'-0" (1.83m)	6'-0" (1.83m)	6(150)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
6x2 (1800x600)	7(175)	7'-2" (2.17m)	38(965)	7(175)	36(915)	36(915)	12(305)	12(305)	1 : 3
6x3 (1800x900)	7(175)	7'-2" (2.17m)	4'-2" (1.27m)	7(175)	24(610)	4'-0" (1.22m)	20(510)	16(410)	1 : 3
6x4 (1800x1200)	7(175)	7'-2" (2.17m)	5'-2" (1.57m)	7(175)	24(610)	4'-0" (1.22m)	24(610)	24(610)	1 : 2
6x5 (1800x1500)	7(175)	7'-2" (2.17m)	6'-2" (1.88m)	7(175)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
6x6 (1800x1800)	7(175)	7'-2" (2.17m)	7'-2" (2.17m)	7(175)	24(610)	4'-0" (1.22m)	4'-0" (1.22m)	24(610)	1 : 2
7x4 (2100x1200)	8(200)	8'-4" (2.54m)	5'-4" (1.63m)	8(200)	24(610)	4'-0" (1.22m)	24(610)	24(610)	1 : 2
7x5 (2100x1500)	8(200)	8'-4" (2.54m)	6'-4" (1.93m)	8(200)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
7x6 (2100x1800)	8(200)	8'-4" (2.54m)	7'-4" (2.24m)	8(200)	24(610)	4'-0" (1.22m)	4'-0" (1.22m)	24(610)	1 : 2
7x7 (2100x2100)	8(200)	8'-4" (2.54m)	8'-4" (2.54m)	8(200)	24(610)	4'-0" (1.22m)	5'-0" (1.52m)	24(610)	1 : 2
8x4 (2400x1200)	8(200)	9'-4" (2.84m)	5'-4" (1.63m)	8(200)	24(610)	4'-0" (1.22m)	24(610)	24(610)	1 : 2
8x5 (2400x1500)	8(200)	9'-4" (2.84m)	6'-4" (1.93m)	8(200)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
8x6 (2400x1800)	8(200)	9'-4" (2.84m)	7'-4" (2.24m)	8(200)	24(610)	4'-0" (1.22m)	4'-0" (1.22m)	24(610)	1 : 2
9x5 (2700x1500)	9(225)	10'-6" (3.2m)	6'-6" (1.98m)	9(225)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
9x6 (2700x1800)	9(225)	10'-6" (3.2m)	7'-6" (2.29m)	9(225)	24(610)	4'-0" (1.22m)	4'-0" (1.22m)	24(610)	1 : 2

All dimensions are in Inches (millimeters) unless otherwise noted.