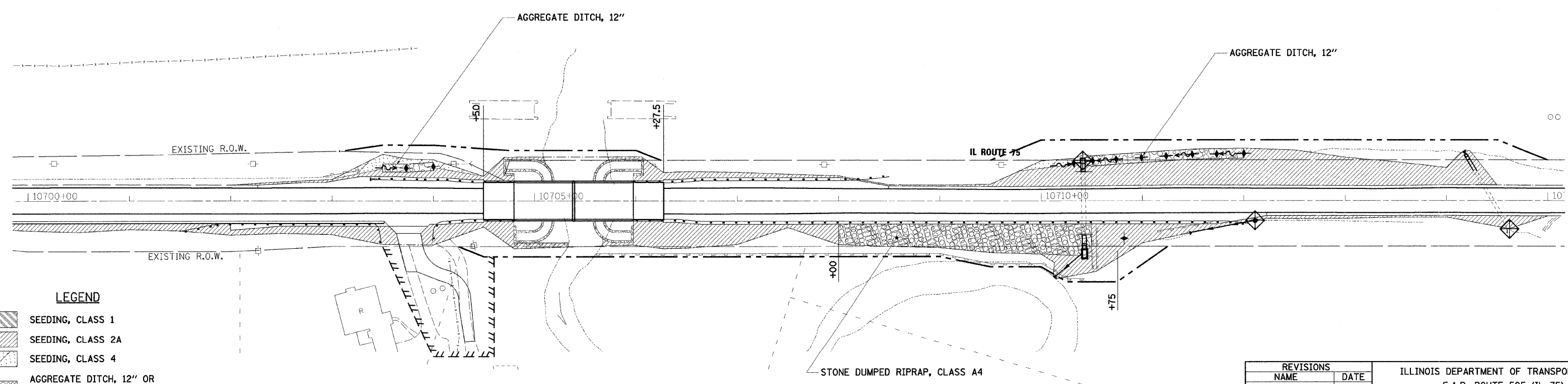
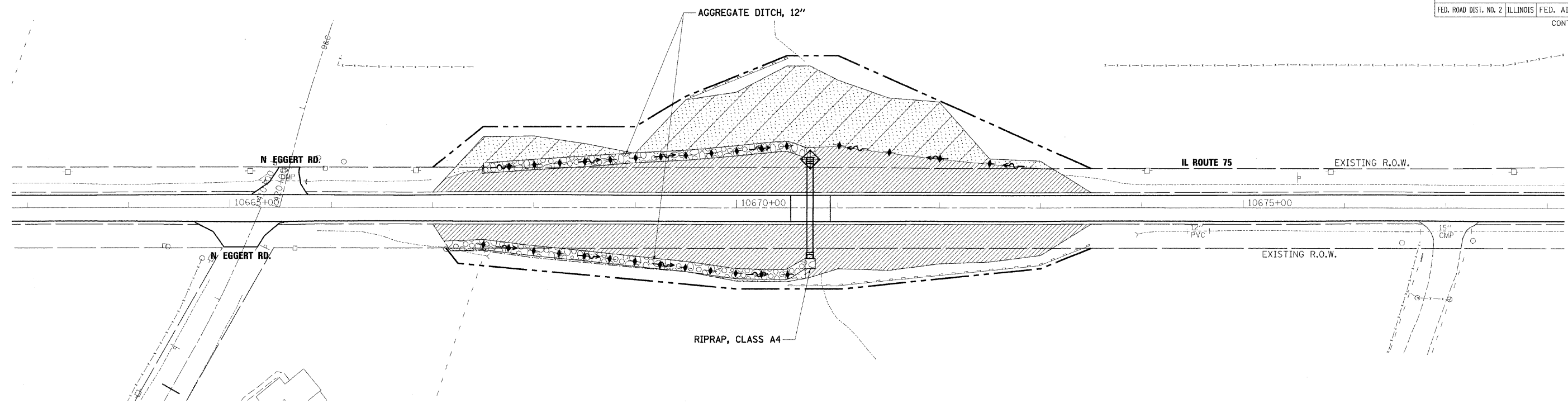


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1	STEPHENSON & WINNEBAGO	335	101
STA.		TO STA.		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 64970				



- LEGEND**
- SEEDING, CLASS 1
 - SEEDING, CLASS 2A
 - SEEDING, CLASS 4
 - AGGREGATE DITCH, 12" OR STONE DUMPED RIPRAP, CLASS A4 OR RIPRAP, CLASS A4
 - TEMPORARY DITCH CHECK
 - INLET AND PIPE PROTECTION
 - PERIMETER EROSION BARRIER

NOTE:
SEE BRIDGE PLANS FOR
STONE DUMPED RIPRAP, CLASS A4
AROUND BRIDGE OVER
ROCK RUN CREEK

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 505 (IL 75)

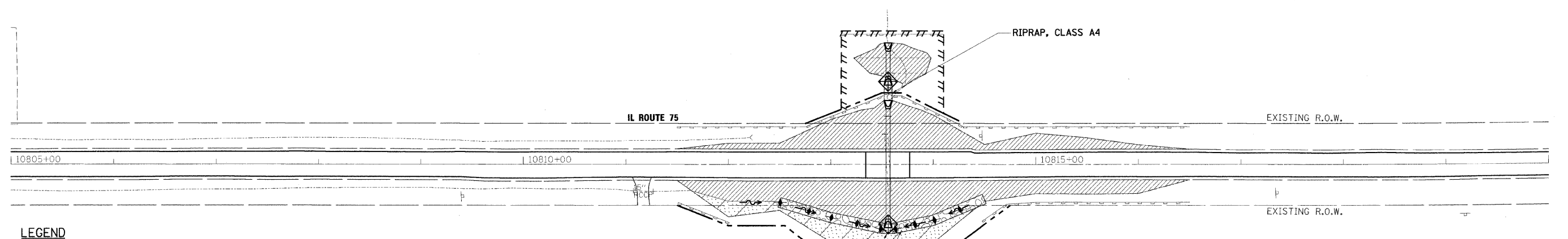
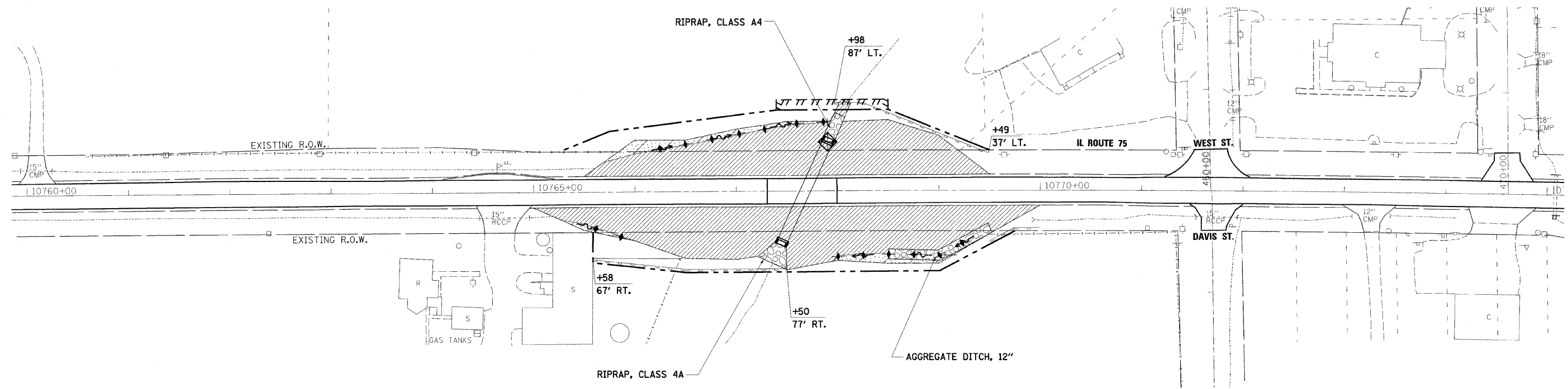
**ILLINOIS ROUTE 75
EROSION CONTROL PLAN**

SCALE: VERT. 1"=20'
HORIZ. 1"=50'
DATE: 3/3/09

DRAWN BY MTH
CHECKED BY SPF

PLOT DATE = 3/3/2009
FILE NAME = k:\11196800\11 75_3p_ east\ecdd\design\195800L.Erosion.dwg
PLOT SCALE = 1:50
USER NAME = J.Treney
PANEL = Default

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Yg-15d-RS-1 & (W-15d)T-1	STEPHENSON & WINNEBAGO	335	102
STA.		TO STA.		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 64970				



- LEGEND**
- SEEDING, CLASS 1
 - SEEDING, CLASS 2A
 - SEEDING, CLASS 4
 - AGGREGATE DITCH, 12" OR STONE DUMPED RIPRAP, CLASS A4 OR RIPRAP, CLASS A4
 - TEMPORARY DITCH CHECK
 - INLET AND PIPE PROTECTION
 - PERIMETER EROSION BARRIER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 505 (IL 75)

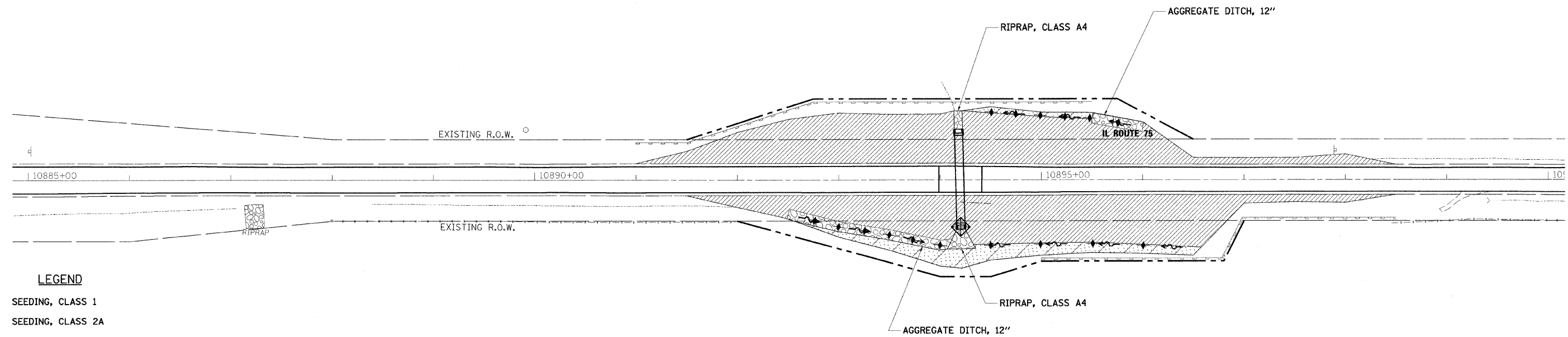
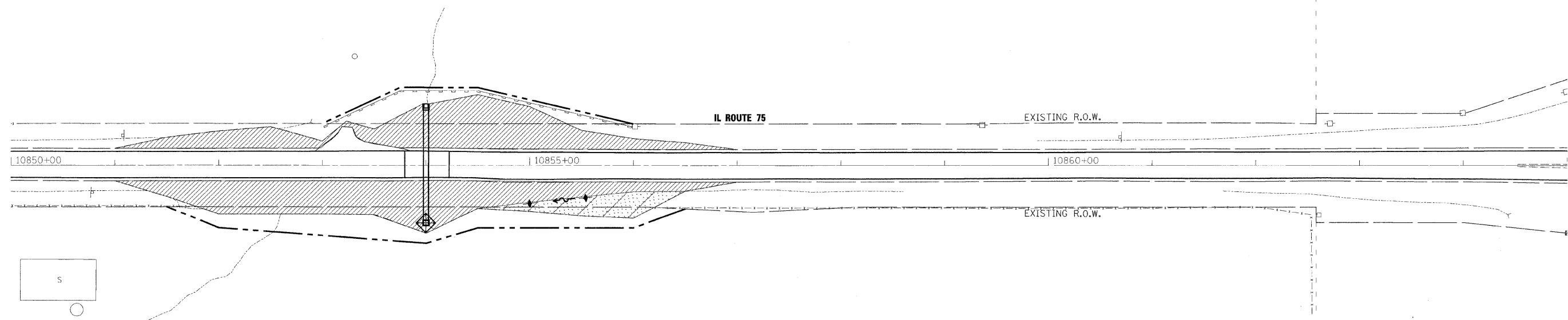
**ILLINOIS ROUTE 75
EROSION CONTROL PLAN**

SCALE: VERT. 1"=50'
HORIZ. 1"=50'
DATE: 3/3/09








DRAWN BY MTH
CHECKED BY SPF

PLOT DATE = 3/3/2009
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 PLOT SCALE = 1/8"=1'-0"
 USER NAME = J.Freney
 PLOTTER = DWFPlot

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)T-1	STEPHENSON & WINNEBAGO	335	103
STA.		TO STA.		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 64970				



LEGEND

-  SEEDING, CLASS 1
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4
-  AGGREGATE DITCH, 12" OR STONE DUMPED RIPRAP, CLASS A4 OR RIPRAP, CLASS A4
-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.P. ROUTE 505 (IL 75)

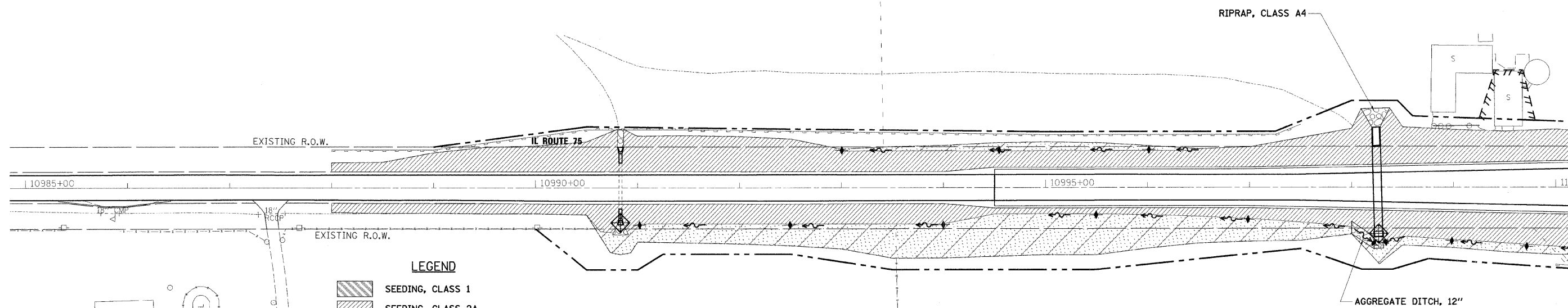
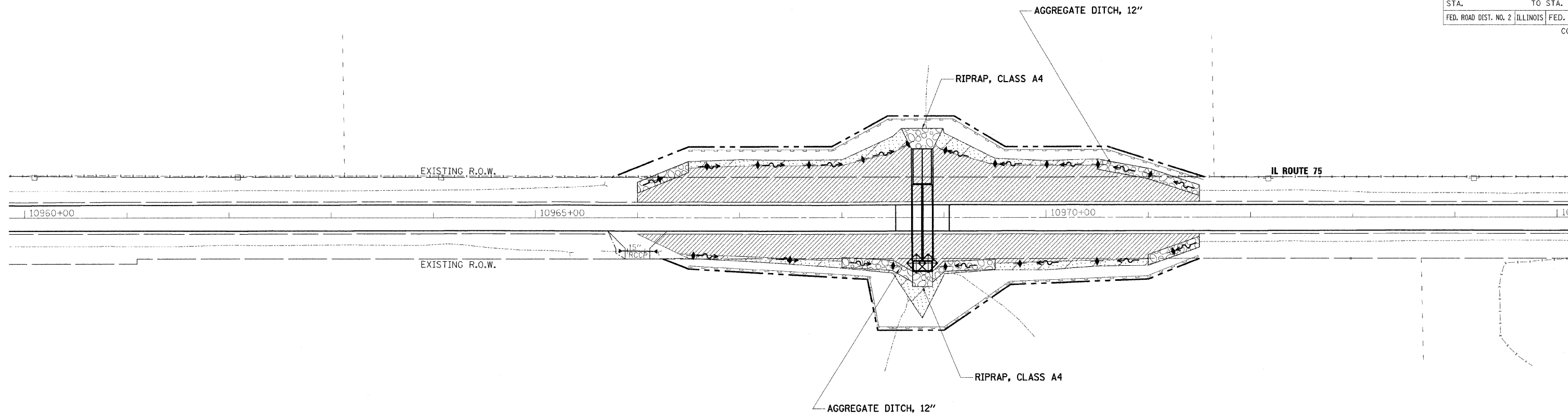
**ILLINOIS ROUTE 75
 EROSION CONTROL PLAN**

SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE: 3/3/09

DRAWN BY MTH
 CHECKED BY SPF

PLOT DATE = 3/3/2009
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 USER NAME = JTreacy
 PLOTTED = 3/3/09

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Yg-15d-RS-1, & W-15d-T-1	STEPHENSON & WINNEBAGO	335	104
STA.		TO STA.		
FED. ROAD DIST. NO. 2		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 64970				



- LEGEND**
- SEEDING, CLASS 1
 - SEEDING, CLASS 2A
 - SEEDING, CLASS 4
 - AGGREGATE DITCH, 12" OR STONE DUMPED RIPRAP, CLASS A4 OR RIPRAP, CLASS A4
 - TEMPORARY DITCH CHECK
 - INLET AND PIPE PROTECTION
 - PERIMETER EROSION BARRIER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.P. ROUTE 505 (IL 75)

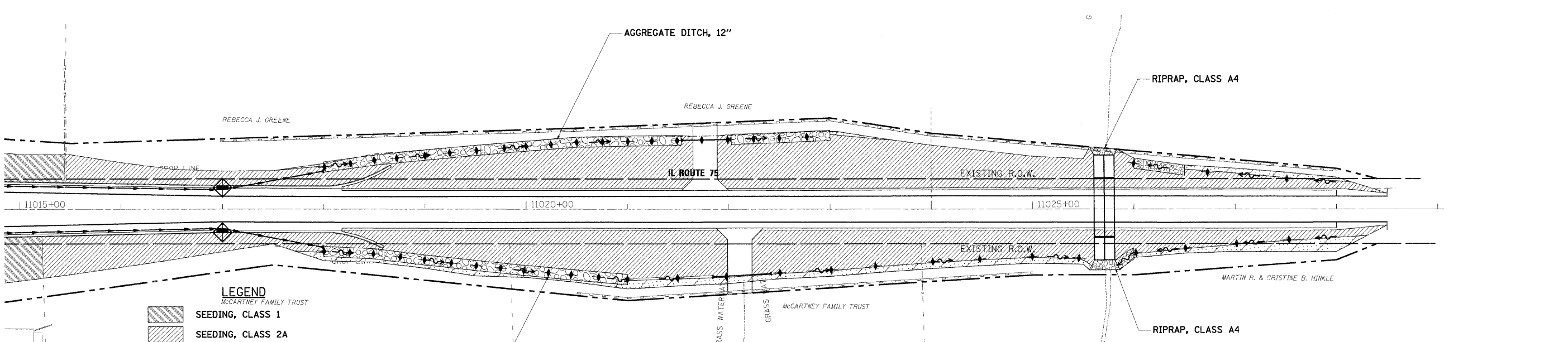
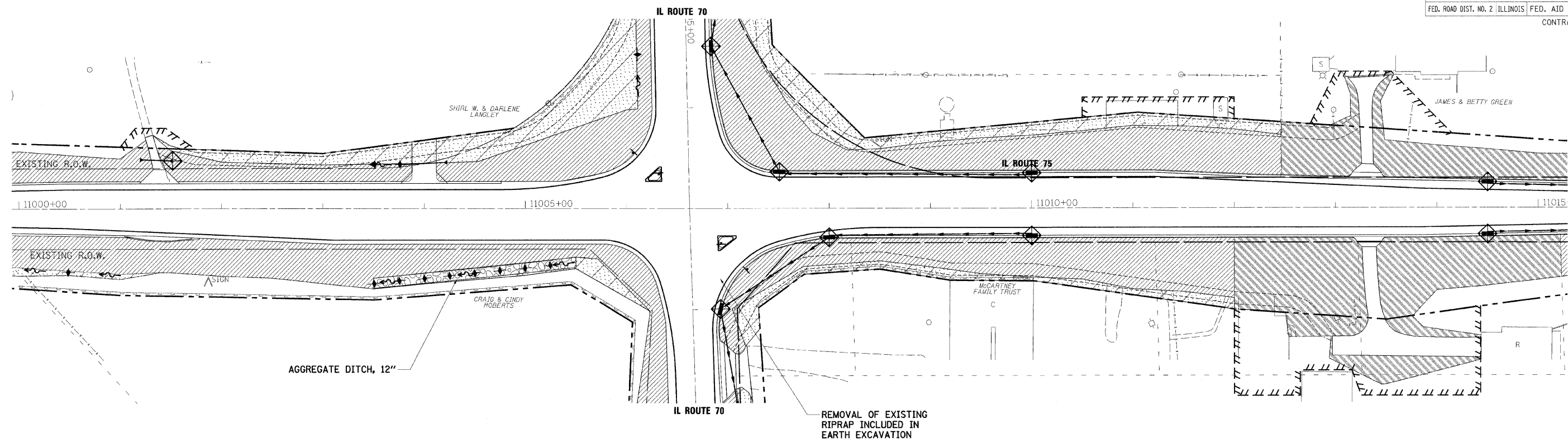
**ILLINOIS ROUTE 75
 EROSION CONTROL PLAN**

SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE: 3/3/09

DRAWN BY MTH
 CHECKED BY SPF

PLOT DATE = 3/3/2009
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 USER NAME = JTFeeley
 MODEL = 0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Yo-15d-RS-1, & W-15dIT-1	STEPHENSON & WINNEBAGO	335	105
STA.		TO STA.		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 64970				



- LEGEND**
- SEEDING, CLASS 1
 - SEEDING, CLASS 2A
 - SEEDING, CLASS 4
 - AGGREGATE DITCH, 12" OR STONE DUMPED RIPRAP, CLASS A4 OR RIPRAP, CLASS A4
 - TEMPORARY DITCH CHECK
 - INLET AND PIPE PROTECTION
 - PERIMETER EROSION BARRIER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 505 (IL 75)

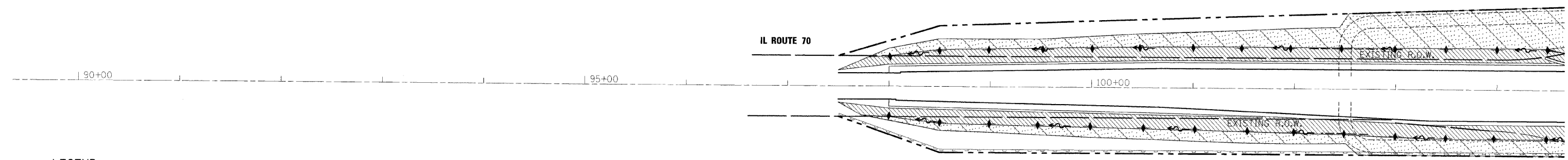
**ILLINOIS ROUTE 75
EROSION CONTROL PLAN**

SCALE: VERT. 1"=50'
HORIZ. 1"=50'
DATE: 3/3/09

DRAWN BY MTH
CHECKED BY SPF

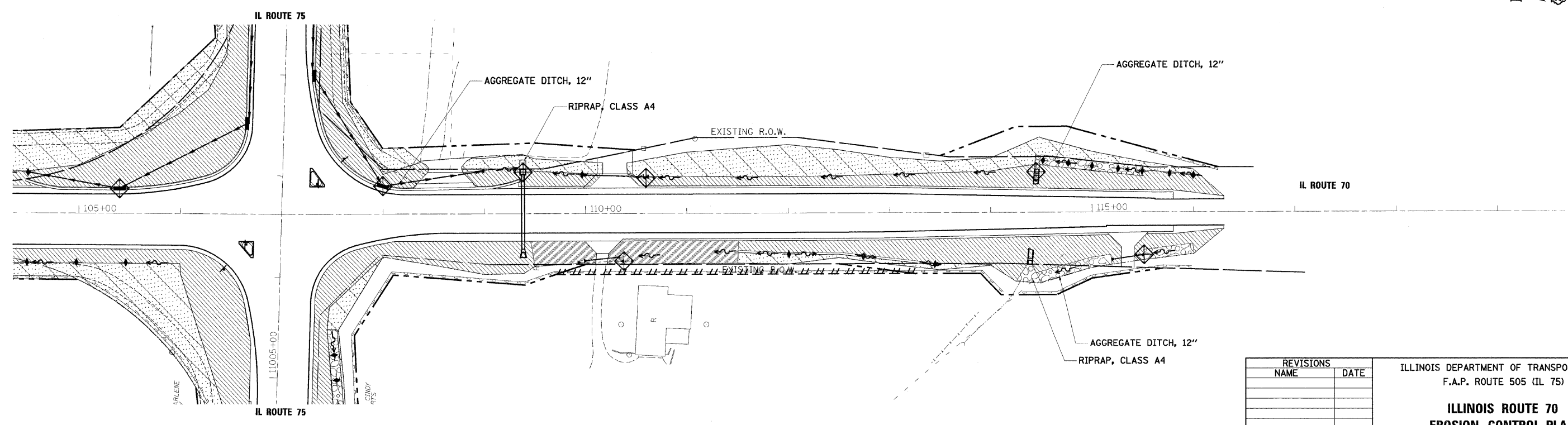
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 PLOT DATE = 3/3/2009
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 PLOT SCALE = 1:50
 USER NAME = J. Tracy
 MODEL = Default

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)T-1	STEPHENSON & WINNEBAGO	335	106
STA.		TO STA.		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 64970				



LEGEND

- SEEDING, CLASS 1
- SEEDING, CLASS 2A
- SEEDING, CLASS 4
- AGGREGATE DITCH, 12" OR STONE DUMPED RIPRAP, CLASS A4 OR RIPRAP, CLASS A4
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER



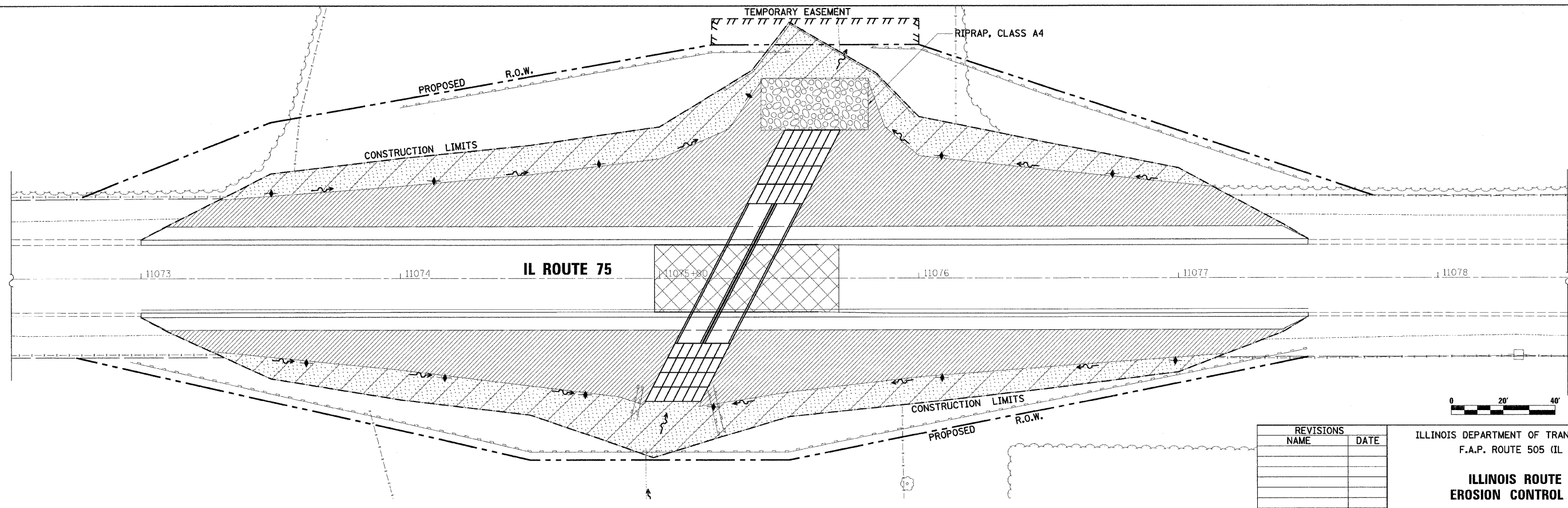
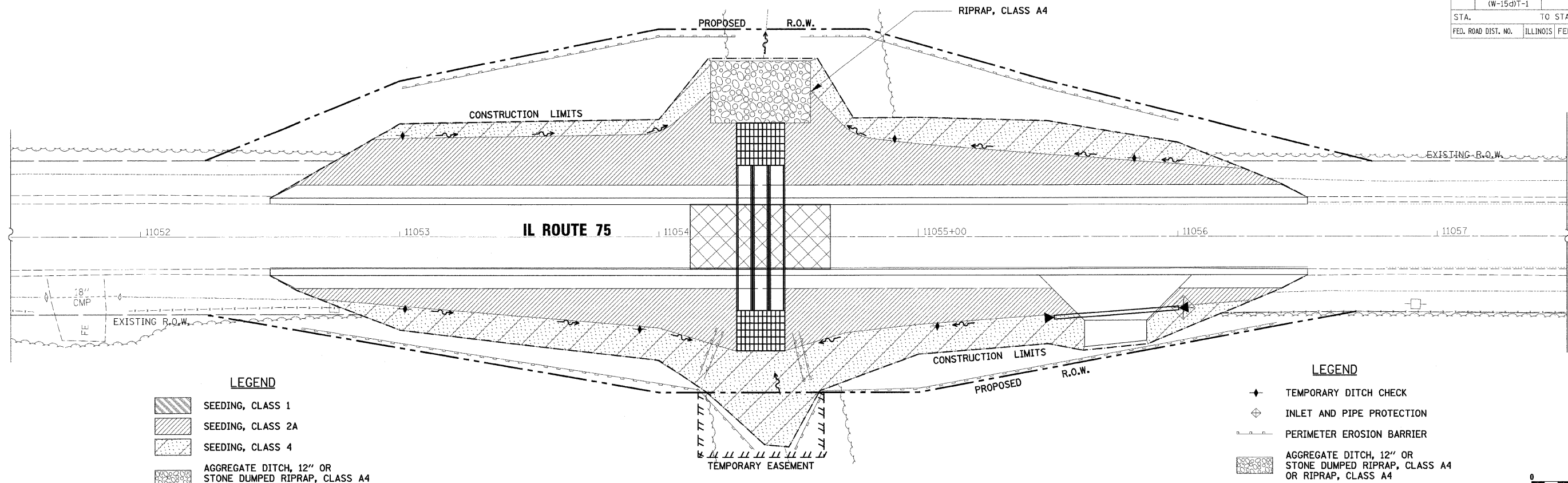
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.P. ROUTE 505 (IL 75)
**ILLINOIS ROUTE 70
 EROSION CONTROL PLAN**

SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE: 3/3/09
 DRAWN BY: MTH
 CHECKED BY: SPF

PLOT DATE = 3/13/2009
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 USER NAME = JTFreney
 MODEL = Default

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-1, 111BR-1 & W-15d RS-1 (W-15d)1-1	STEPHENSON & WINNEBAGO	335	107
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 64970				



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.P. ROUTE 505 (IL 75)








**ILLINOIS ROUTE 75
 EROSION CONTROL PLAN**

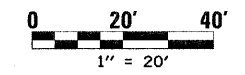
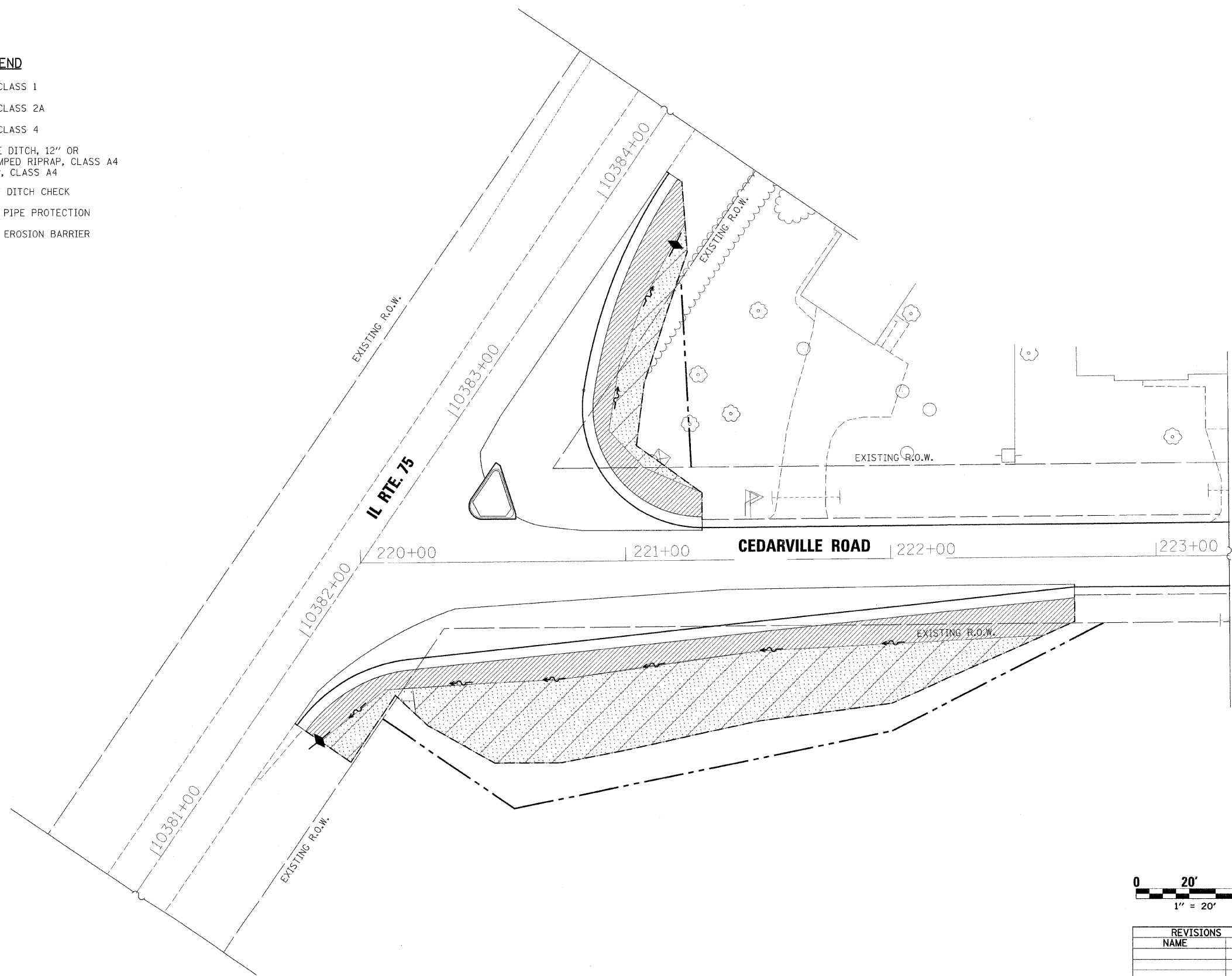
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 HORIZ. 1"=50'
 DATE: 12/15/06

DRAWN BY JMC
 CHECKED BY DWB

3/23/2009 9:57:08 AM k:\11179214\Cadd\Design\179214_Erosion.dgn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)T-1	STEPHENSON & WINNEBAGO	335	108
STA.		TO STA.		
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 64970				

- LEGEND**
-  SEEDING, CLASS 1
 -  SEEDING, CLASS 2A
 -  SEEDING, CLASS 4
 -  AGGREGATE DITCH, 12" OR STONE DUMPED RIPRAP, CLASS A4 OR RIPRAP, CLASS A4
 -  TEMPORARY DITCH CHECK
 -  INLET AND PIPE PROTECTION
 -  PERIMETER EROSION BARRIER



REVISIONS	
NAME	DATE








ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.P. ROUTE 505 (IL 75)
DETOUR EROSION CONTROL PLAN
CEDARVILLE & IL RTE. 75

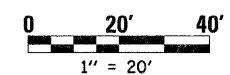
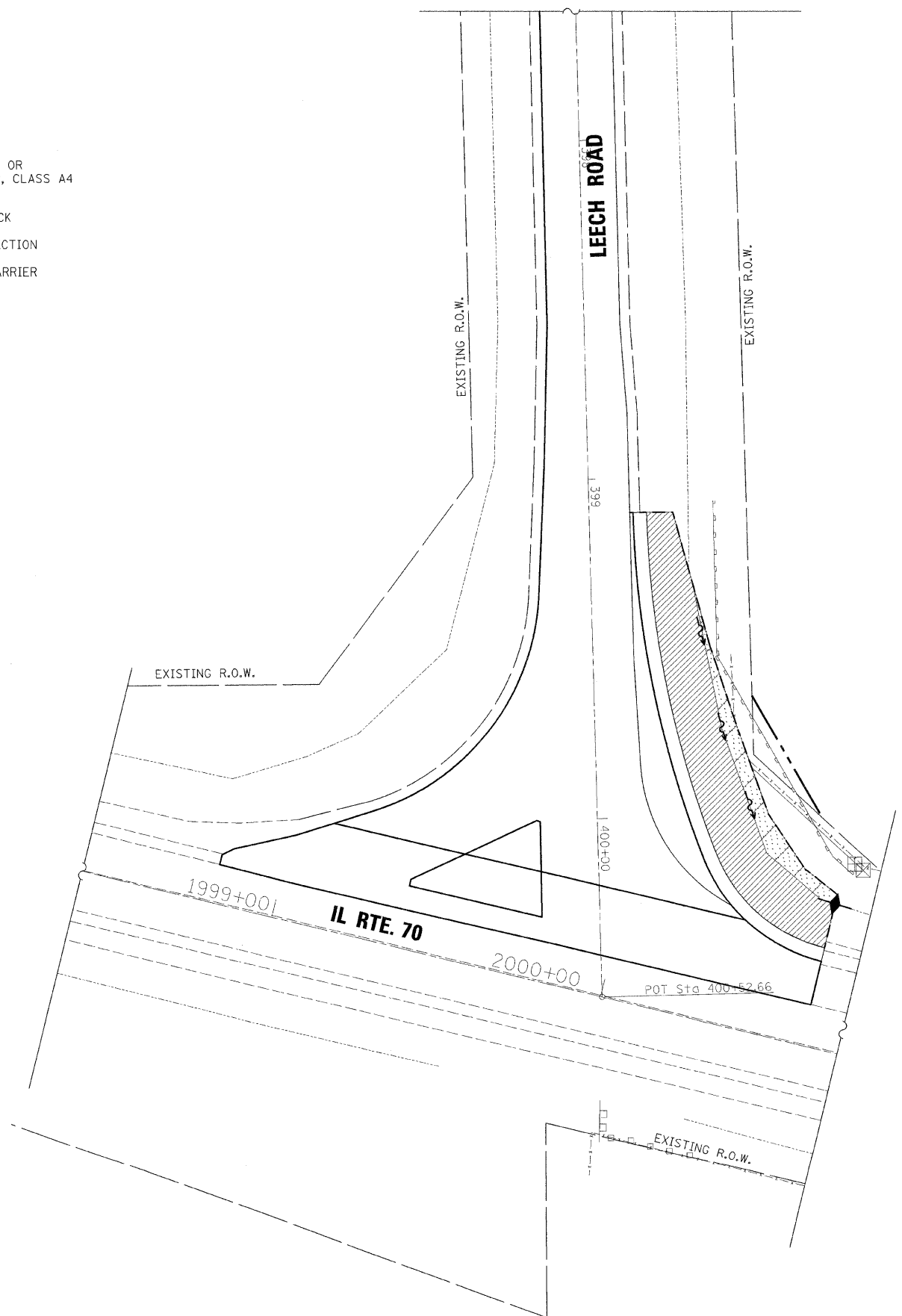
SCALE: VERT. 1" = 20'
 DATE: 3/3/09

DRAWN BY MTH
 CHECKED BY SPF

PLOT DATE = 3/3/2009
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 PLOT NAME = J:\Treacy
 MODEL = Defaul

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)T-1	STEPHENSON & WINNEBAGO	335	109
STA.		TO STA.		
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 64970				

- LEGEND**
-  SEEDING, CLASS 1
 -  SEEDING, CLASS 2A
 -  SEEDING, CLASS 4
 -  AGGREGATE DITCH, 12" OR STONE DUMPED RIPRAP, CLASS A4 OR RIPRAP, CLASS A4
 -  TEMPORARY DITCH CHECK
 -  INLET AND PIPE PROTECTION
 -  PERIMETER EROSION BARRIER



REVISIONS	
NAME	DATE








ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.P. ROUTE 505 (IL 75)
DETOUR EROSION CONTROL PLAN
LEECH ROAD & IL RTE. 70

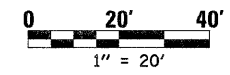
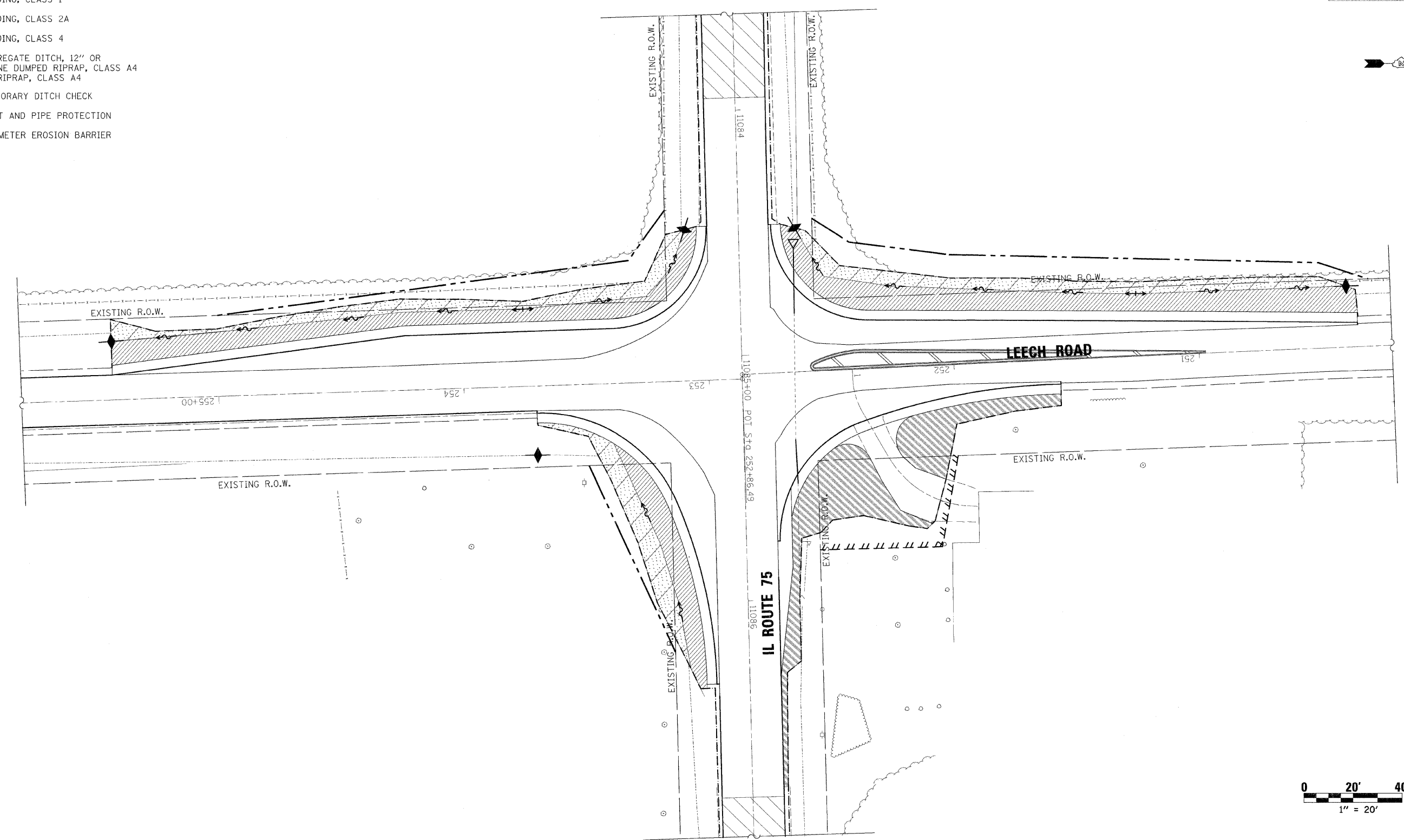
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 DATE: 3/3/09
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 MODEL = Detour.dwg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Yc-15d-RS-1, & (W-15d)T-1	STEPHENSON & WINNEBAGO	335	110
STA.		TO STA.		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 64970				

LEGEND

-  SEEDING, CLASS 1
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4
-  AGGREGATE DITCH, 12" OR STONE DUMPED RIPRAP, CLASS A4 OR RIPRAP, CLASS A4
-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER










REVISIONS	
NAME	DATE

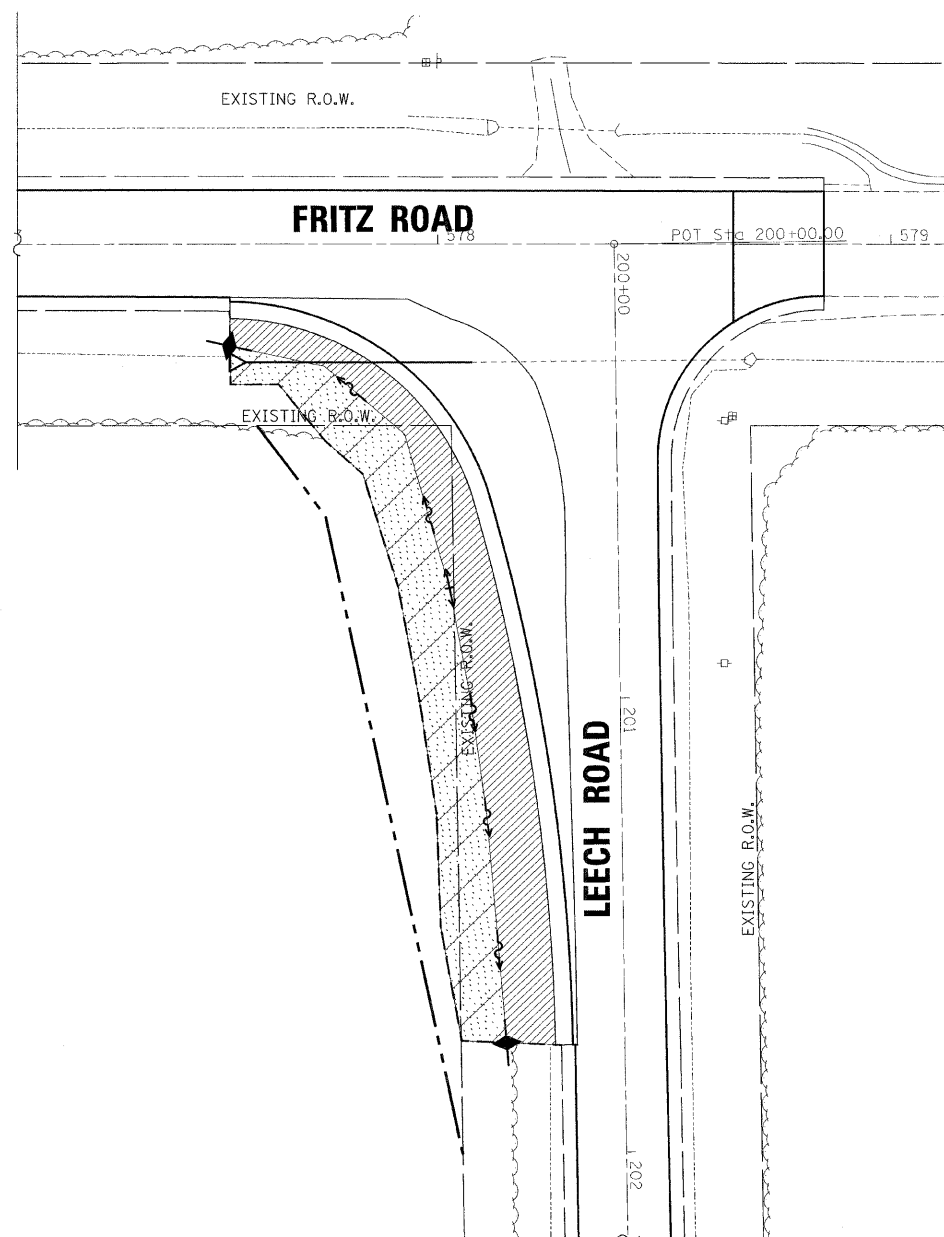
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.P. ROUTE 505 (IL 75)
DETOUR EROSION CONTROL PLAN
LEECH ROAD & IL RTE. 75

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE: 3/3/09
 DRAWN BY: MTH
 CHECKED BY: SPF

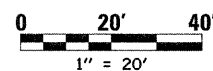
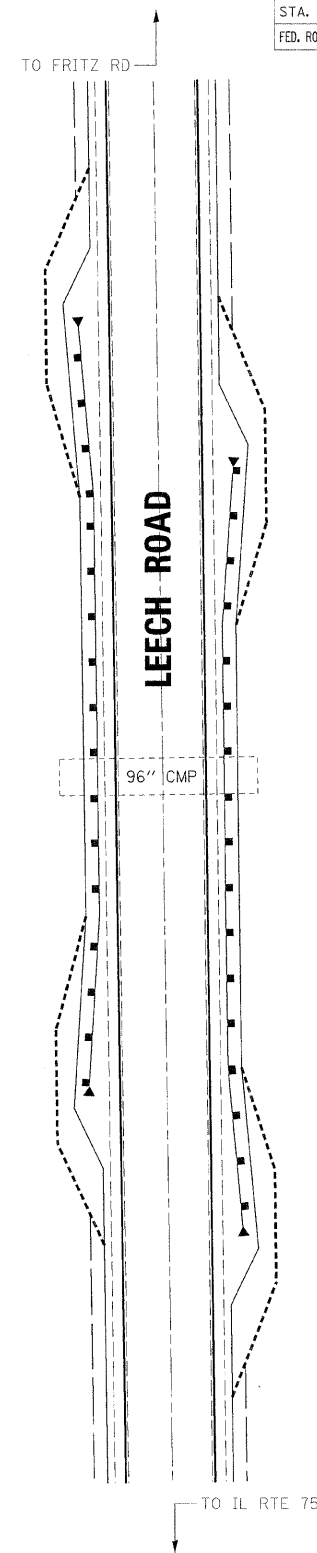
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 USER NAME = JFrecky
 MODEL = 505.dwg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)IT-1	STEPHENSON & WINNEBAGO	335	111
STA.		TO STA.		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		CONTRACT NO. 64970

- LEGEND**
-  SEEDING, CLASS 1
 -  SEEDING, CLASS 2A
 -  SEEDING, CLASS 4
 -  AGGREGATE DITCH, 12" OR STONE DUMPED RIPRAP, CLASS A4 OR RIPRAP, CLASS A4
 -  TEMPORARY DITCH CHECK
 -  INLET AND PIPE PROTECTION
 -  PERIMETER EROSION BARRIER



EXIST. CURVE 1280
 PI STA. = 578+79.54
 $\Delta = 0^\circ 45' 31''$ (RT)
 $D = 0^\circ 07' 01''$
 $R = 49,029.81'$
 $T = 324.54'$
 $L = 649.07'$
 $E = 1.07'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 575+55.00$
 $P.T. STA. = 582+04.07$



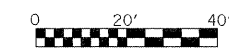
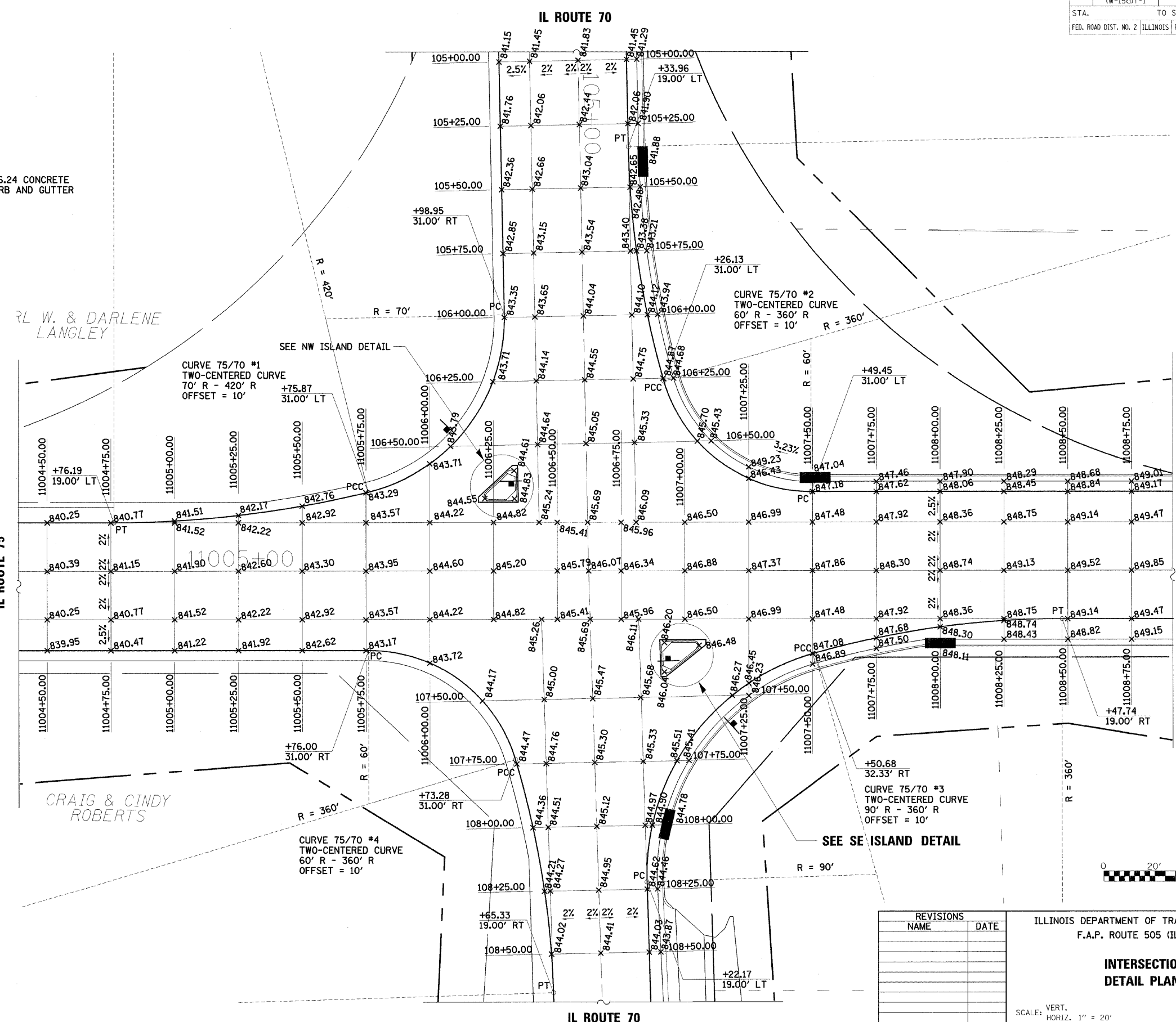
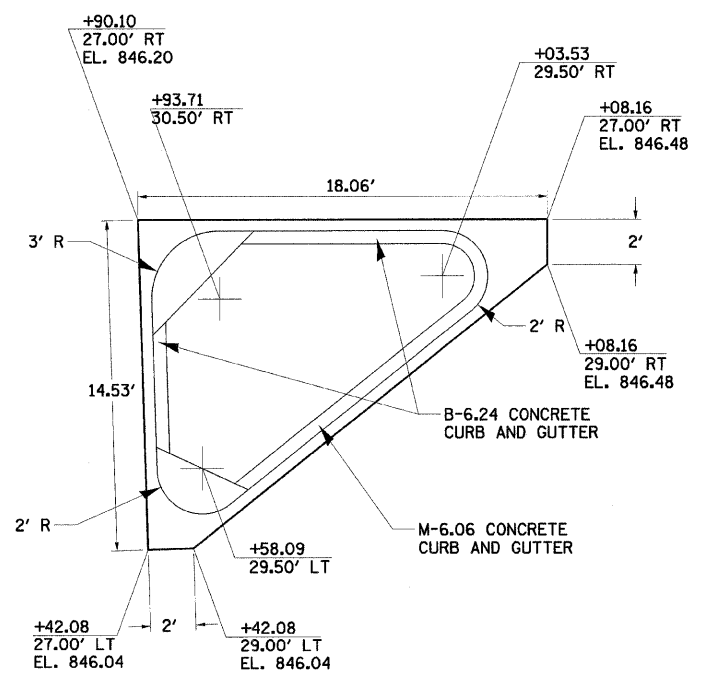
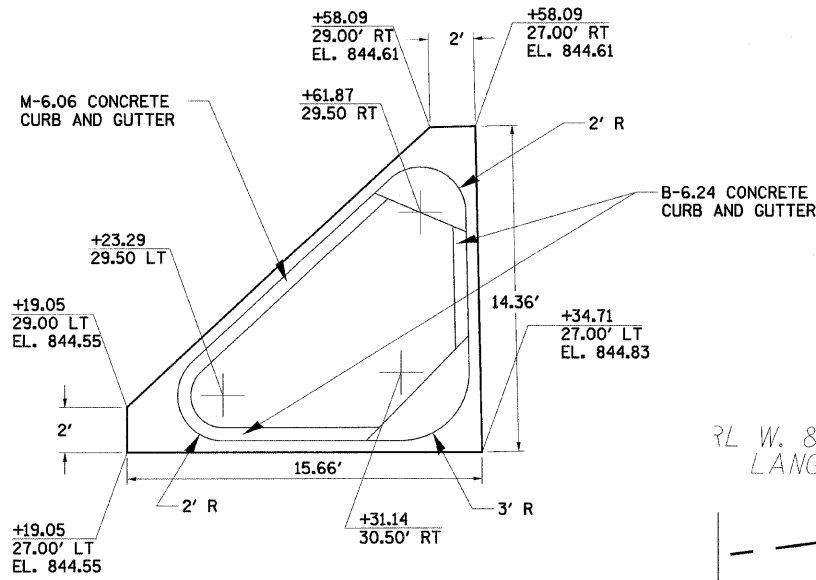
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 USER NAME = JFrey
 MODEL = 091001

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.P. ROUTE 505 (IL 75)
DETOUR EROSION CONTROL PLAN
LEECH ROAD & FRITZ ROAD

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE: 3/3/09

DRAWN BY MTH
 CHECKED BY SPF



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 505 (IL 75)

**INTERSECTION
DETAIL PLAN**

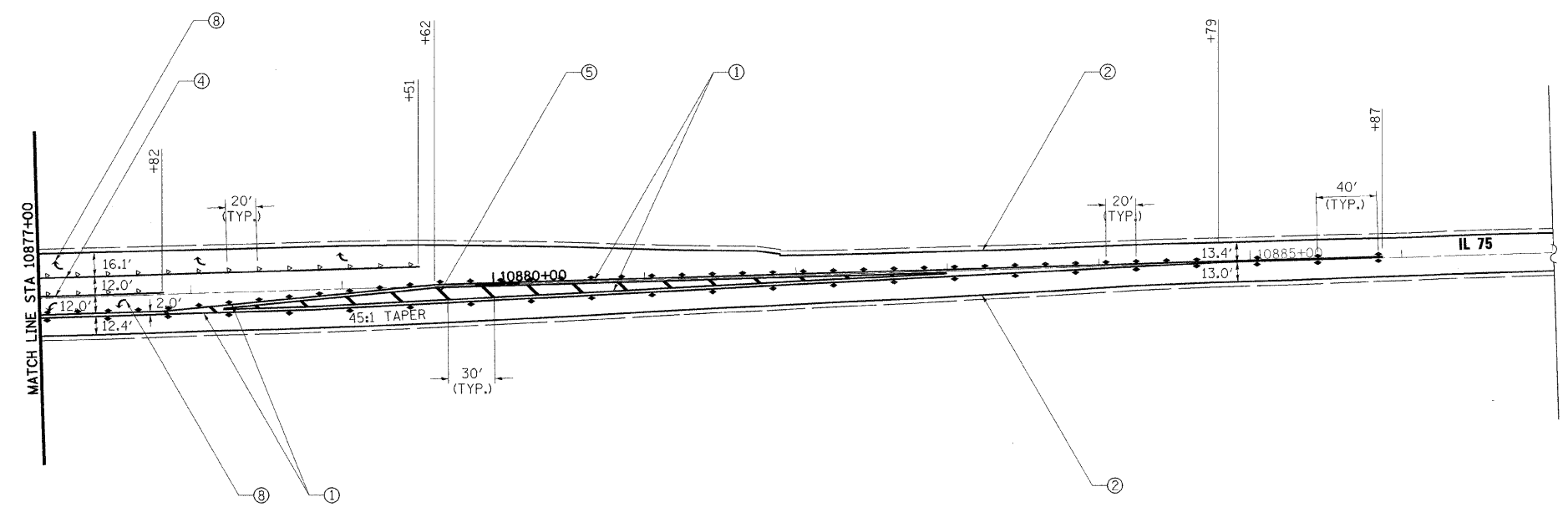
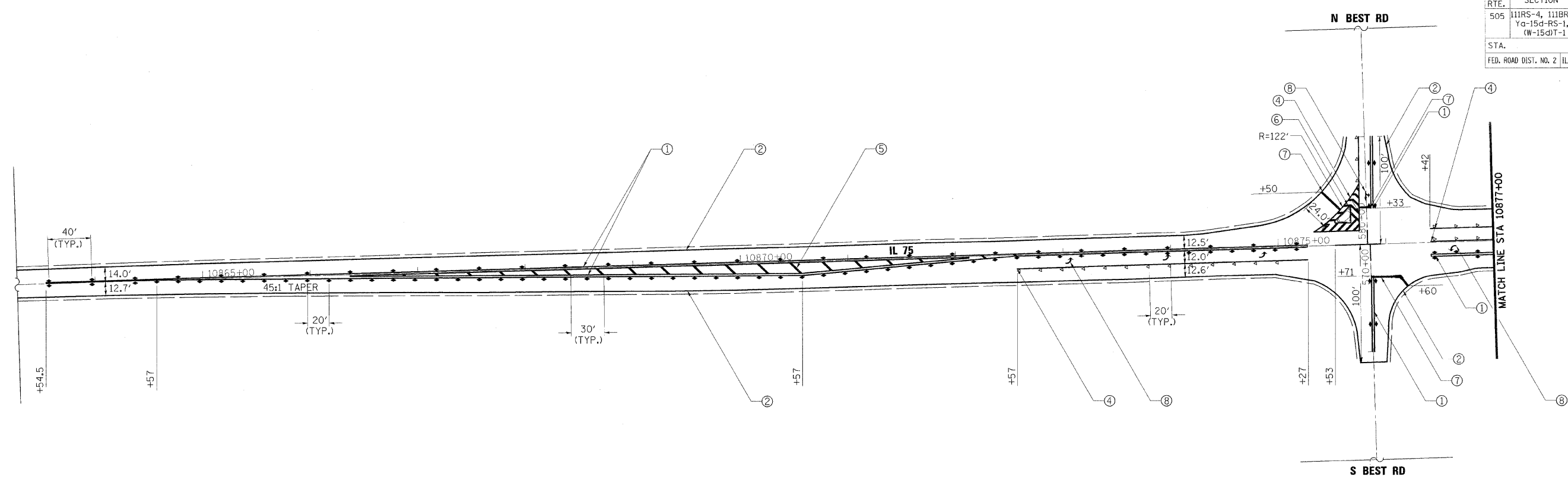
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HORIZ. 1" = 20'

DATE: 3/3/09

DRAWN BY: MTH
CHECKED BY: SPF

PLOT DATE = 3/3/2009
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USER NAME = J Tracy
PLOT LABEL = Detail

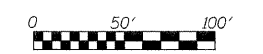
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)T-1	STEPHENSON & WINNEBAGO	335	113
STA.		TO STA.		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 64970				



NOTE:
ALL PAVEMENT MARKING DETAILED ON THIS SHEET SHALL CONSIST OF THERMOPLASTIC PAVEMENT MARKING

PAVEMENT MARKING LEGEND

- ① 4" DOUBLE YELLOW SOLID LINE
- ② 4" WHITE SOLID LINE
- ③ NOT USED
- ④ 8" WHITE SOLID LINE
- ⑤ 12" YELLOW SOLID LINE
- ⑥ 12" WHITE SOLID LINE
- ⑦ 24" WHITE SOLID LINE
- ⑧ WHITE LETTERS & SYMBOLS
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER



REVISIONS	
NAME	DATE

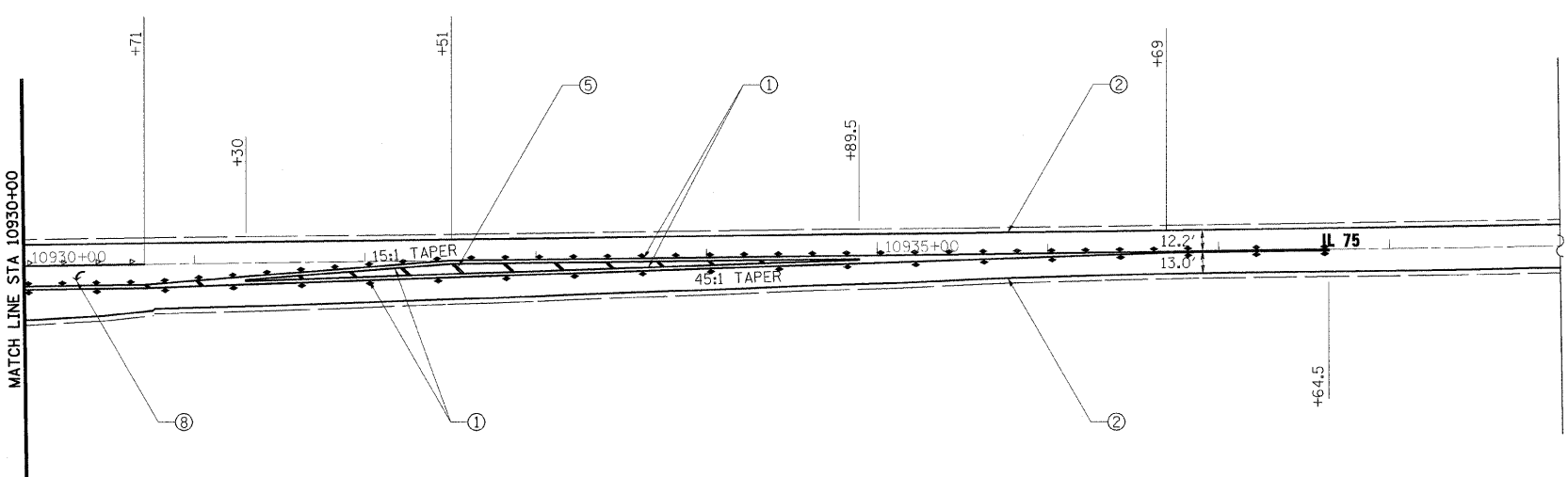
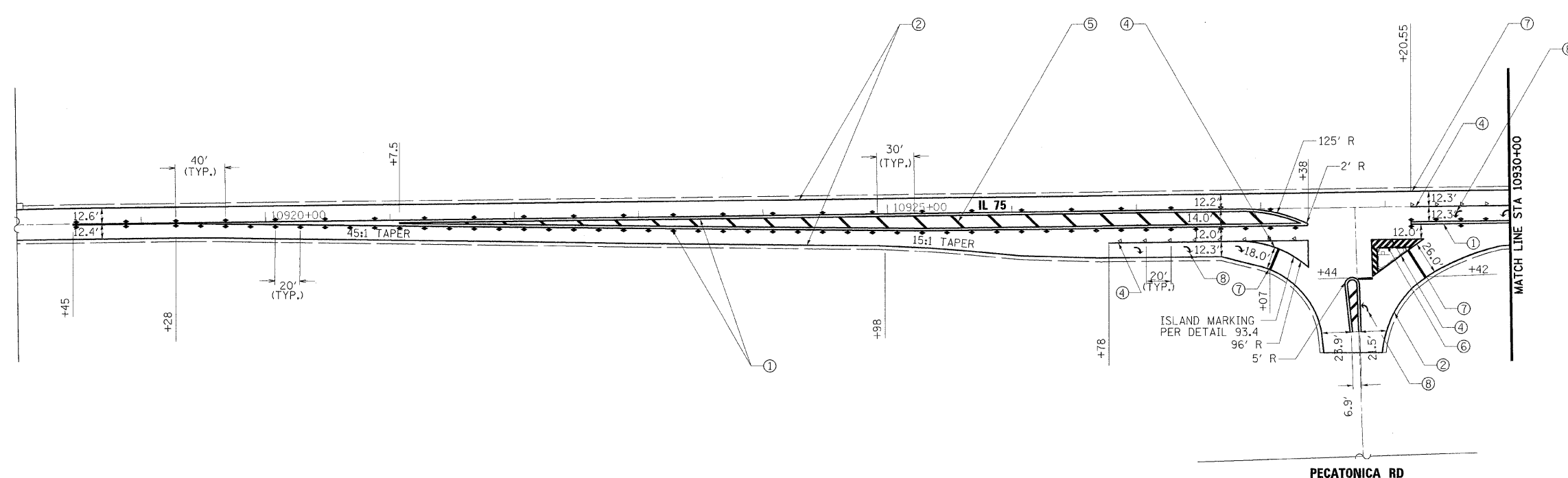
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 505 (IL 75)
**PAVEMENT MARKING
DETAILS
BEST RD**

SCALE: VERT. _____
HORIZ. _____
DATE: 3/3/09

DRAWN BY MTH
CHECKED BY SPF

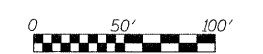
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PLOT SCALE = 1:50
USER NAME = JFreedy
JOBEL = Best Rd

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Yc-15d-RS-1, & (W-15)dT-1	STEPHENSON & WINNEBAGO	335	114
STA.		TO STA.		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 64970				



NOTE:
ALL PAVEMENT MARKING DETAILED ON THIS SHEET SHALL CONSIST OF THERMOPLASTIC PAVEMENT MARKING

- PAVEMENT MARKING LEGEND
- ① 4" DOUBLE YELLOW SOLID LINE
 - ② 4" WHITE SOLID LINE
 - ③ NOT USED
 - ④ 8" WHITE SOLID LINE
 - ⑤ 12" YELLOW SOLID LINE
 - ⑥ 12" WHITE SOLID LINE
 - ⑦ 24" WHITE SOLID LINE
 - ⑧ WHITE LETTERS & SYMBOLS
- ▶ ONE-WAY AMBER MARKER
 - ▷ ONE-WAY CRYSTAL MARKER
 - ◆ TWO-WAY AMBER MARKER



REVISIONS	
NAME	DATE

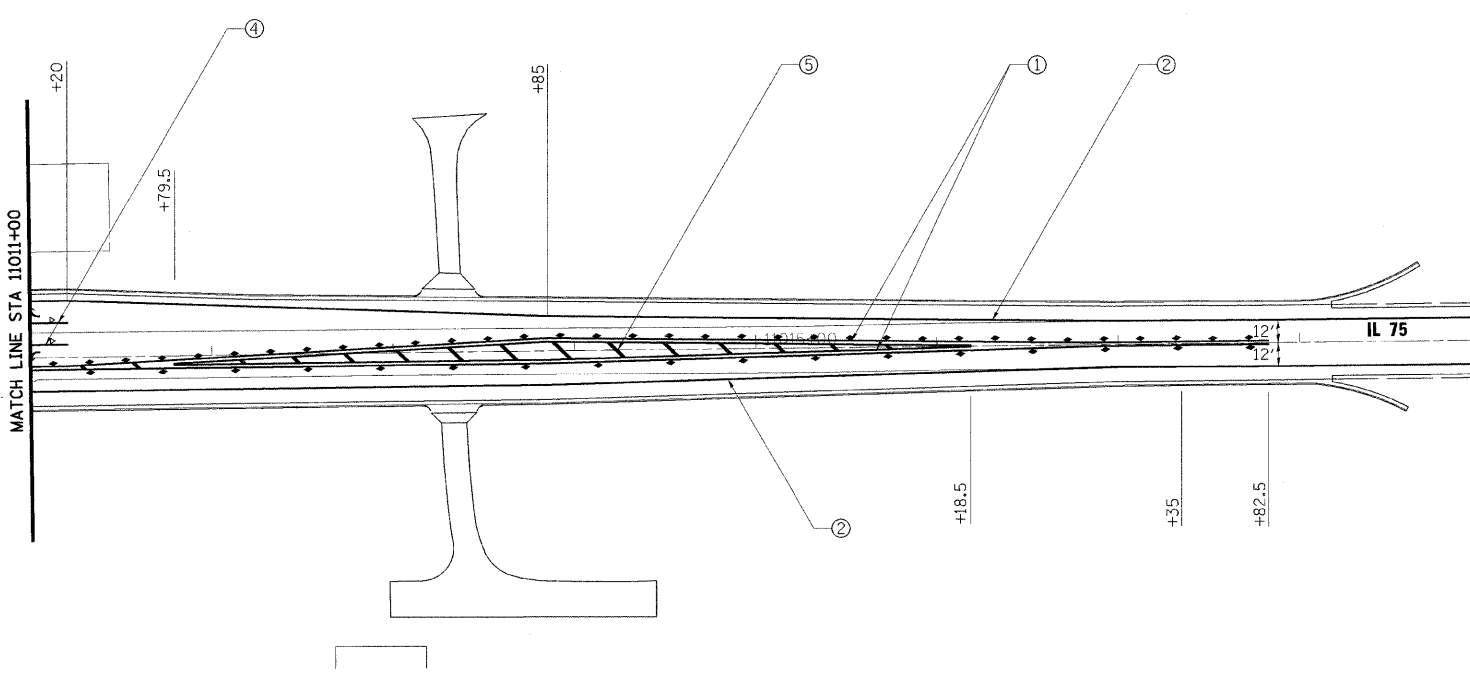
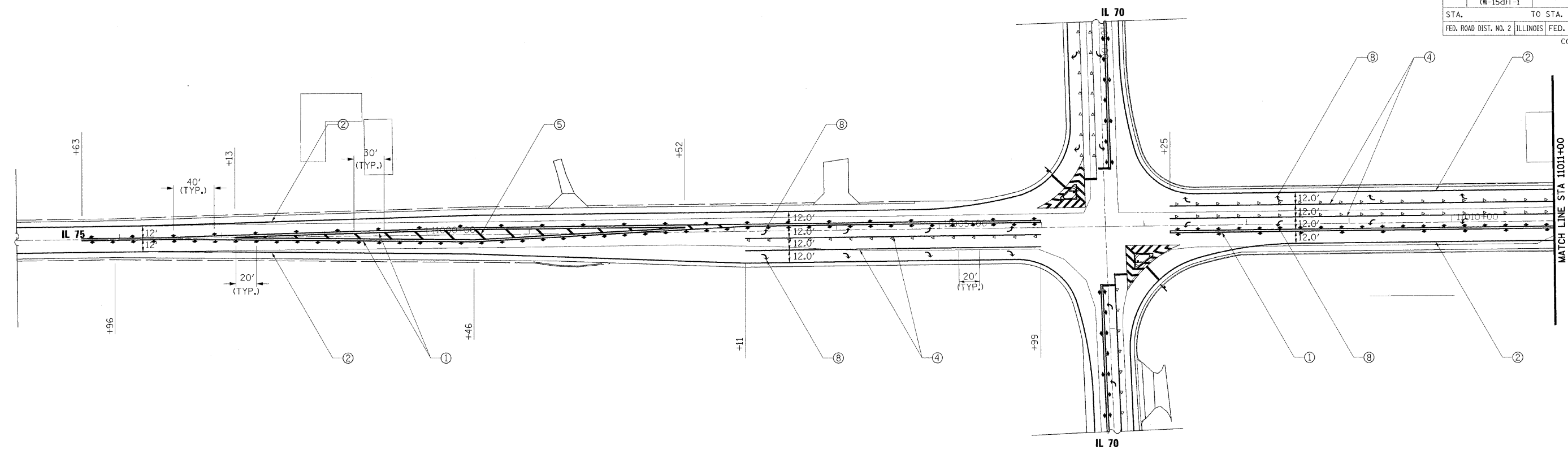
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 505 (IL 75)
**PAVEMENT MARKING
DETAILS
PECATONICA RD**

SCALE: VERT. _____
HORIZ. _____
DATE: 3/3/09

DRAWN BY MTH
CHECKED BY SPF

PLOT DATE = 3/3/2009
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USER NAME = JTreece
MODEL = Pecatonica Rd

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)T-1	STEPHENSON & WINNEBAGO	335	115
STA.		TO STA.		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 64970				



FOR PAVEMENT MARKING ON IL 70, SEE NEXT SHEET.

NOTES:
ALL PAVEMENT MARKING DETAILED ON THIS SHEET SHALL BE THERMOPLASTIC

PAVEMENT MARKING LEGEND

- ① 4" DOUBLE YELLOW SOLID LINE
- ② 4" WHITE SOLID LINE
- ③ NOT USED
- ④ 8" WHITE SOLID LINE
- ⑤ 12" YELLOW SOLID LINE
- ⑥ 12" WHITE SOLID LINE
- ⑦ 24" WHITE SOLID LINE
- ⑧ WHITE LETTERS & SYMBOLS
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER



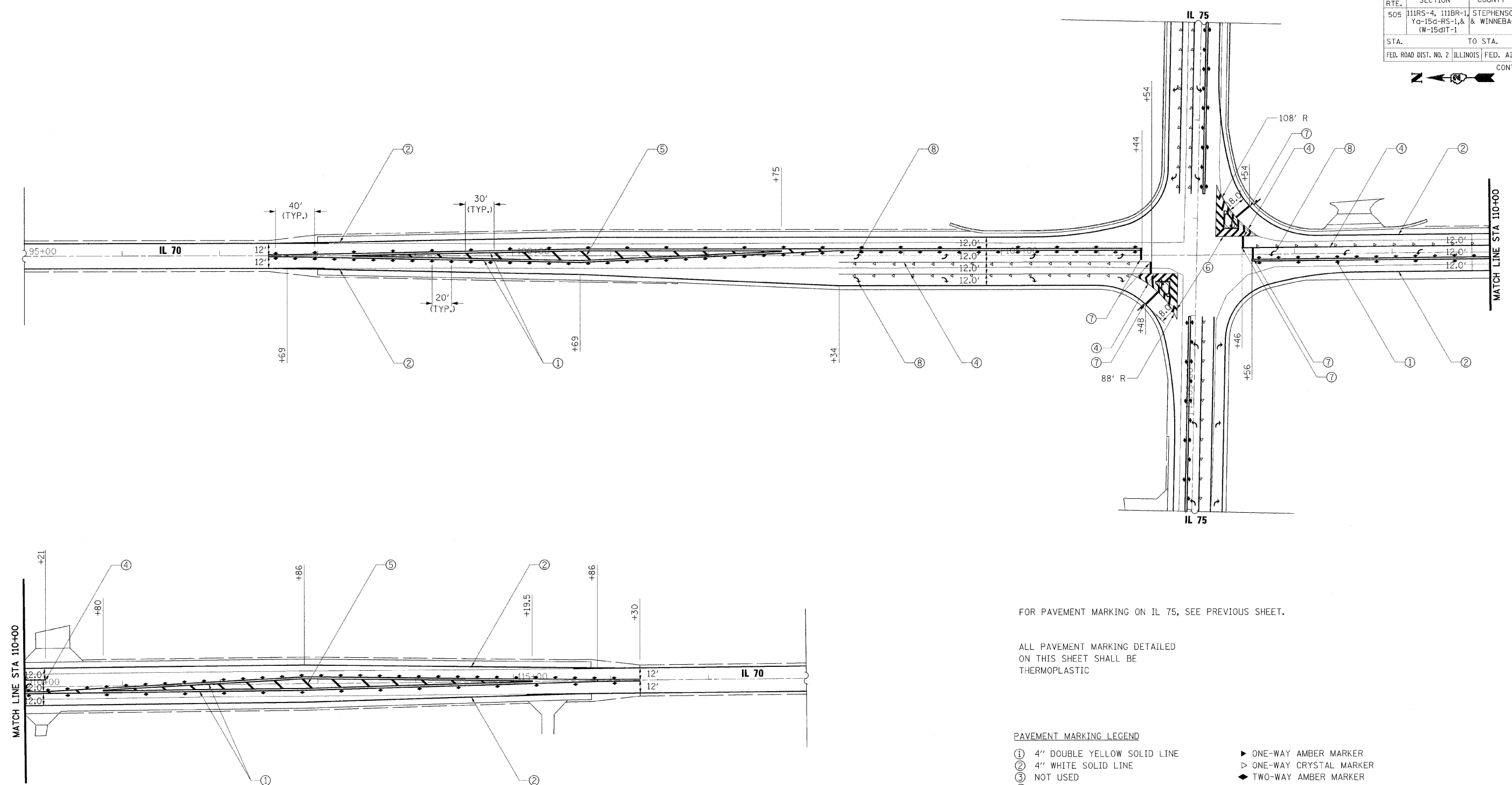
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 505 (IL 75)
**PAVEMENT MARKING
DETAILS
IL 75**

SCALE: VERT. DRAWN BY MTH
 HORIZ. CHECKED BY SPF
DATE: 3/3/09

PLOT DATE = 3/3/2009
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PLOT SCALE = 1:50
USER NAME = JTracy
MODEL = IL75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)T-1	STEPHENSON & WINNEBAGO	335	116
STA.		TO STA.		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 64970				

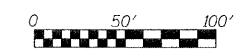


FOR PAVEMENT MARKING ON IL 75, SEE PREVIOUS SHEET.

ALL PAVEMENT MARKING DETAILED ON THIS SHEET SHALL BE THERMOPLASTIC

PAVEMENT MARKING LEGEND

- ① 4" DOUBLE YELLOW SOLID LINE
- ② 4" WHITE SOLID LINE
- ③ NOT USED
- ④ 8" WHITE SOLID LINE
- ⑤ 12" YELLOW SOLID LINE
- ⑥ 12" WHITE SOLID LINE
- ⑦ 24" WHITE SOLID LINE
- ⑧ WHITE LETTERS & SYMBOLS
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER



PLOT DATE = 3/3/2009
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 USER NAME = J.Prasoy
 PDBELL = 1178

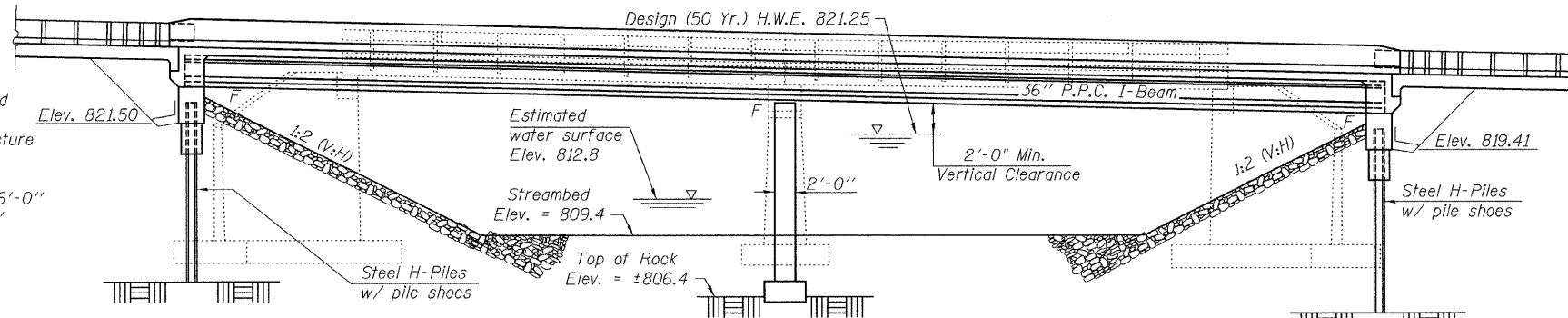
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.P. ROUTE 505 (IL 75)
**PAVEMENT MARKING
 DETAILS
 IL 70**
 VERT. SCALE: DRAWN BY MTH
 HORIZ. SCALE: CHECKED BY SPF
 DATE: 3/3/09

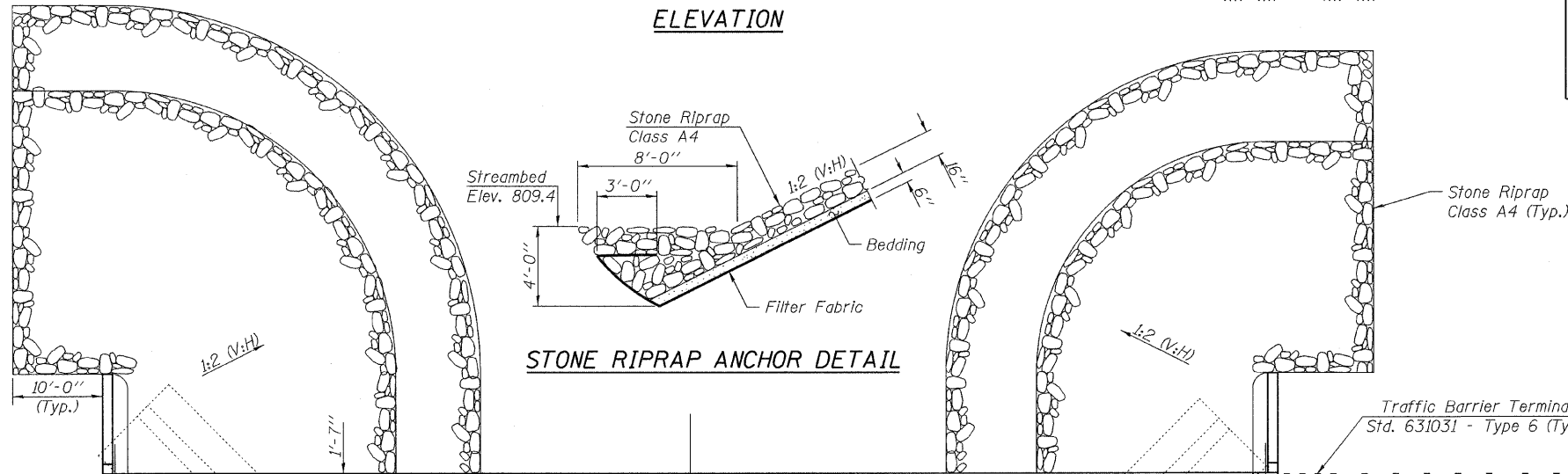
Bench Mark: Chiseled Square, Top of Southeast Wingwall, Sta. 10705+86.01, 18.3' Rt., Elev. 824.47

Existing Structure: Structure number 089-0040, built in 1928 as S.B.I. 75, Sec. 111B. Portions of the substructure and the superstructure were rebuilt in 1973. The rebuilt superstructure is a PPC deck beam bridge with a 5" concrete overlay and closed abutments. Two-span 86'-0" back to back abutments, 33'-0" out to out width. Traffic to be detoured.

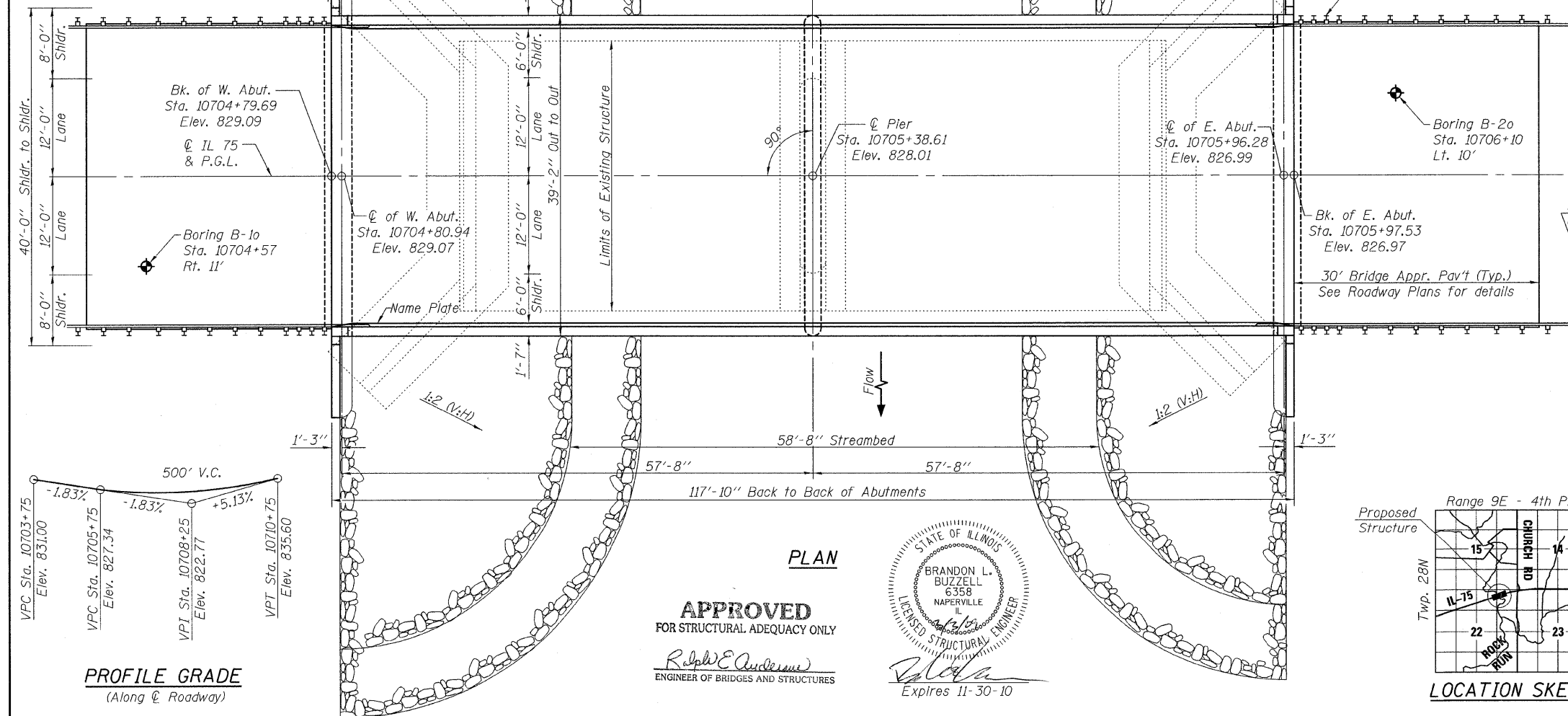
No Salvage.



ELEVATION



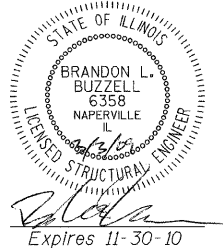
STONE RIPRAP ANCHOR DETAIL



PLAN

APPROVED FOR STRUCTURAL ADEQUACY ONLY

ENGINEER OF BRIDGES AND STRUCTURES



Design Scour Elevations		
West Abutment	Pier	East Abutment
824.6	806.4	822.6

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO.
FAP 505	111B	STEPHENSON	335	117	18 SHEETS

Contract #64970

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f_{ci} = 5,000$ psi
 $f'_s = 270,000$ psi ($\frac{1}{2}$ " ϕ low lax. strands)
 $f_{si} = 201,960$ psi ($\frac{1}{2}$ " ϕ low lax. strands)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.032g
Site Coefficient (S) = 1.0

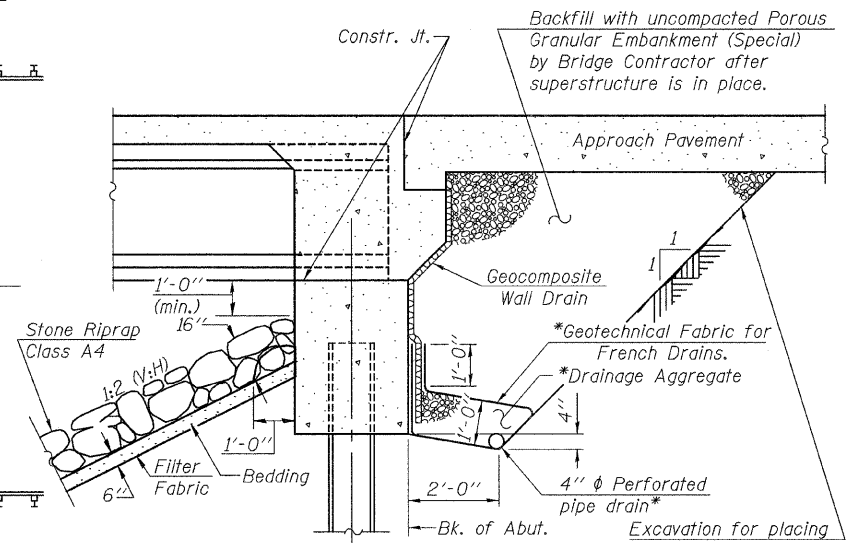
STATION 10705+38.61
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 505 SEC. 111B
LOADING HS20
STR. NO. 089-0084

NAME PLATE

See Std. 515001

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	2382	564	599	819.89	0.34	0.31	820.23	820.20
Base	50	3590	662	717	821.25	0.48	0.45	821.73	821.70
Overtopping	100	4092	701	762	821.74	0.53	0.49	822.27	822.23
Max. Calc.	500	5275	785	860	822.79	0.73	0.66	823.52	823.45

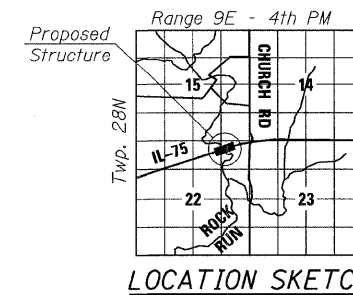


PIPE UNDERDRAIN AND RIPRAP DETAIL

*Included in the cost of Pipe Underdrains for Structures, 4".

Note:

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).



LOCATION SKETCH



200 West Front Street
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION

IL-75 OVER ROCK RUN CREEK
FAP RTE 505 - SECTION 111B
STEPHENSON COUNTY
STATION 10705+38.61
STRUCTURE NO. 089-0084

DATE: 3/03/2009

DRAWN BY JMT
CHECKED BY JWJ

GENERAL NOTES:

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

All Construction joints shall be bonded.

Removal of existing Steel Bridge Rail is included with Removal of Existing Structures.

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

Reinforcement designated (E) shall be epoxy coated.

The contractor is advised that the existing PPC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of beams when developing construction procedures for removal and replacement of the superstructure.


Slipforming of the parapets is not allowed.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		270	270
Rock Excavation for Structures	Cu. Yd.		3	3
Concrete Superstructure	Cu. Yd.	163.9		163.9
Concrete Structures	Cu. Yd.		102.7	102.7
Furnishing and Erecting Precast Prestressed Concrete I Beams, 36 in	Foot	695		695
Reinforcement Bars, Epoxy Coated	Pound	33,840	9610	43,450
Furnishing Steel Piles HP 12x53	Foot		157.5	157.5
Driving Piles	Foot		157.5	157.5
Test Pile Steel HP 12x53	Each		2	2
Pile Shoes	Each		12	12
Name Plates	Each	1		1
Bridge Deck Grooving	Sq. Yd.	445		445
Protective Coat	Sq. Yd.	570		570
Bar Splicers	Each	76		76
Stone Riprap, Class A4	Sq. Yd.		1027	1027
Porous Granular Embankment (Special)	Cu. Yd.		125	125
Geocomposite Wall Drain	Sq. Yd.		73	73
Filter Fabric	Sq. Yd.		1027	1027
Pipe Underdrains for Structures, 4"	Foot		142	142
Cofferdams	Each		1	1
Cofferdam Excavation	Cu. Yd.		55	55
Concrete Encasement	Cu. Yd.		4.2	4.2
Anchor Bolts, 1/2"	Each		4	4
Asbestos Bearing Pad Removal	Each		22	22

INDEX OF SHEETS

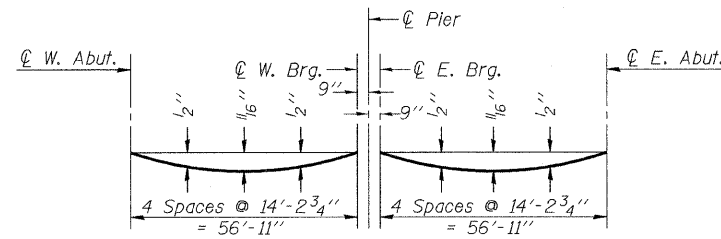
Sheet No.	Title
1.	General Plan and Elevation
2.	General Notes and Total Bill of Material
3.	Top of Slab Elevations - I
4.	Top of Slab Elevations - II
5.	Top of West Approach Slab Elevations
6.	Top of East Approach Slab Elevations
7.	Superstructure
8.	Superstructure Details
9.	Diaphragm Details
10.	Framing Plan and Beam Moment & Reaction Table
11.	36" P.P.C. I-Beam
12.	36" P.P.C. I-Beam Details
13.	Abutment Details
14.	Steel H-Pile Details
15.	Pier Details
16.	Bar Splicer Assembly Details
17.	Boring Logs - I
18.	Boring Logs - II

 Excellence through Ownership 200 West Front Street Wheaton, IL 60187	ILLINOIS DEPARTMENT OF TRANSPORTATION
	GENERAL NOTES AND TOTAL BILL OF MATERIAL IL-75 OVER ROCK RUN CREEK FAP RTE 505 - SECTION 111B STEPHENSON COUNTY STATION 10705+38.61 STRUCTURE NO. 089-0084 DATE: 3/03/2009

DRAWN BY JMT
CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3 18 SHEETS
FAP 505	111B	STEPHENSON	335	119	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

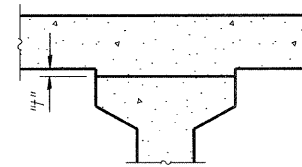
Contract #64970



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete, excluding beams).

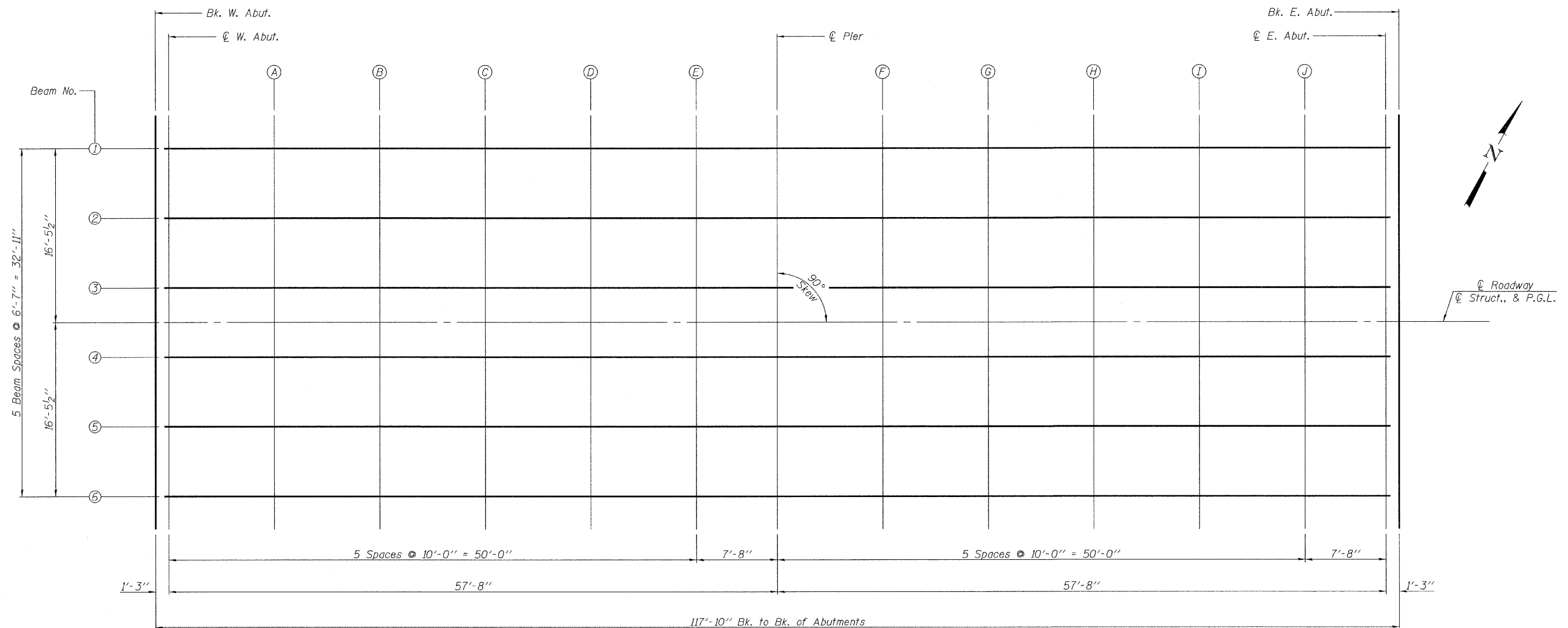
Note:

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 Sheet 4 of 18.



To determine "h": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on Sheet 4 of 18, minus slab thickness, equals the fillet heights "h" above top flanges of beams.

FILLET HEIGHTS



PLAN

rjngroup

Excellence through Ownership

200 West Front Street
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS - I
IL-75 OVER ROCK RUN CREEK
FAP RTE 505 - SECTION 111B
STEPHENSON COUNTY
STATION 10705+38.61
STRUCTURE NO. 089-0084

DATE: 3/03/2009

DRAWN BY JMT
CHECKED BY WJV

Contract #64970

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	10704+79.69	-16.46	828.81	828.81
☉ W. Abut.	10704+80.94	-16.46	828.79	828.79
A	10704+90.94	-16.46	828.60	828.63
B	10705+00.94	-16.46	828.42	828.47
C	10705+10.94	-16.46	828.24	828.29
D	10705+20.94	-16.46	828.05	828.10
E	10705+30.94	-16.46	827.87	827.89
☉ Pier	10705+38.61	-16.46	827.73	827.73
F	10705+48.61	-16.46	827.55	827.57
G	10705+58.61	-16.46	827.36	827.41
H	10705+68.61	-16.46	827.18	827.24
I	10705+78.61	-16.46	827.00	827.04
J	10705+88.61	-16.46	826.83	826.85
☉ E. Abut.	10705+96.28	-16.46	826.71	826.71
Back E. Abut.	10705+97.53	-16.46	826.69	826.69

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	10704+79.69	-9.88	828.93	828.93
☉ W. Abut.	10704+80.94	-9.88	828.91	828.91
A	10704+90.94	-9.88	828.73	828.76
B	10705+00.94	-9.88	828.55	828.59
C	10705+10.94	-9.88	828.36	828.42
D	10705+20.94	-9.88	828.18	828.22
E	10705+30.94	-9.88	828.00	828.02
☉ Pier	10705+38.61	-9.88	827.86	827.86
F	10705+48.61	-9.88	827.67	827.70
G	10705+58.61	-9.88	827.49	827.54
H	10705+68.61	-9.88	827.31	827.36
I	10705+78.61	-9.88	827.13	827.17
J	10705+88.61	-9.88	826.95	826.98
☉ E. Abut.	10705+96.28	-9.88	826.83	826.83
Back E. Abut.	10705+97.53	-9.88	826.81	826.81

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	10704+79.69	-3.29	829.04	829.04
☉ W. Abut.	10704+80.94	-3.29	829.01	829.01
A	10704+90.94	-3.29	828.83	828.86
B	10705+00.94	-3.29	828.65	828.70
C	10705+10.94	-3.29	828.47	828.52
D	10705+20.94	-3.29	828.28	828.33
E	10705+30.94	-3.29	828.10	828.12
☉ Pier	10705+38.61	-3.29	827.96	827.96
F	10705+48.61	-3.29	827.78	827.80
G	10705+58.61	-3.29	827.59	827.64
H	10705+68.61	-3.29	827.41	827.47
I	10705+78.61	-3.29	827.23	827.27
J	10705+88.61	-3.29	827.06	827.08
☉ E. Abut.	10705+96.28	-3.29	826.94	826.94
Back E. Abut.	10705+97.53	-3.29	826.92	826.92

☉ STRUCTURE, ☉ ROADWAY, & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	10704+79.69	0.00	829.09	829.09
☉ W. Abut.	10704+80.94	0.00	829.07	829.07
A	10704+90.94	0.00	828.88	828.91
B	10705+00.94	0.00	828.70	828.75
C	10705+10.94	0.00	828.52	828.57
D	10705+20.94	0.00	828.33	828.38
E	10705+30.94	0.00	828.15	828.17
☉ Pier	10705+38.61	0.00	828.01	828.01
F	10705+48.61	0.00	827.83	827.85
G	10705+58.61	0.00	827.64	827.69
H	10705+68.61	0.00	827.46	827.52
I	10705+78.61	0.00	827.28	827.32
J	10705+88.61	0.00	827.11	827.13
☉ E. Abut.	10705+96.28	0.00	826.99	826.99
Back E. Abut.	10705+97.53	0.00	826.97	826.97

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	10704+79.69	3.29	829.04	829.04
☉ W. Abut.	10704+80.94	3.29	829.01	829.01
A	10704+90.94	3.29	828.83	828.86
B	10705+00.94	3.29	828.65	828.70
C	10705+10.94	3.29	828.47	828.52
D	10705+20.94	3.29	828.28	828.33
E	10705+30.94	3.29	828.10	828.12
☉ Pier	10705+38.61	3.29	827.96	827.96
F	10705+48.61	3.29	827.78	827.80
G	10705+58.61	3.29	827.59	827.64
H	10705+68.61	3.29	827.41	827.47
I	10705+78.61	3.29	827.23	827.27
J	10705+88.61	3.29	827.06	827.08
☉ E. Abut.	10705+96.28	3.29	826.94	826.94
Back E. Abut.	10705+97.53	3.29	826.92	826.92


BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	10704+79.69	9.88	828.93	828.93
☉ W. Abut.	10704+80.94	9.88	828.91	828.91
A	10704+90.94	9.88	828.73	828.76
B	10705+00.94	9.88	828.55	828.59
C	10705+10.94	9.88	828.36	828.42
D	10705+20.94	9.88	828.18	828.22
E	10705+30.94	9.88	828.00	828.02
☉ Pier	10705+38.61	9.88	827.86	827.86
F	10705+48.61	9.88	827.67	827.70
G	10705+58.61	9.88	827.49	827.54
H	10705+68.61	9.88	827.31	827.36
I	10705+78.61	9.88	827.13	827.17
J	10705+88.61	9.88	826.95	826.98
☉ E. Abut.	10705+96.28	9.88	826.83	826.83
Back E. Abut.	10705+97.53	9.88	826.81	826.81

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	10704+79.69	16.46	828.81	828.81
☉ W. Abut.	10704+80.94	16.46	828.79	828.79
A	10704+90.94	16.46	828.60	828.63
B	10705+00.94	16.46	828.42	828.47
C	10705+10.94	16.46	828.24	828.29
D	10705+20.94	16.46	828.05	828.10
E	10705+30.94	16.46	827.87	827.89
☉ Pier	10705+38.61	16.46	827.73	827.73
F	10705+48.61	16.46	827.55	827.57
G	10705+58.61	16.46	827.36	827.41
H	10705+68.61	16.46	827.18	827.24
I	10705+78.61	16.46	827.00	827.04
J	10705+88.61	16.46	826.83	826.85
☉ E. Abut.	10705+96.28	16.46	826.71	826.71
Back E. Abut.	10705+97.53	16.46	826.69	826.69

3/2/2009 K:\1115886\Structures\Rock Run Bridge\Final\Plan.mxd

 Excellence through Ownership 200 West Front Street Wheaton, IL 60187	ILLINOIS DEPARTMENT OF TRANSPORTATION TOP OF SLAB ELEVATIONS - II IL-75 OVER ROCK RUN CREEK FAP RTE 505 - SECTION 111B STEPHENSON COUNTY STATION 10705+38.61 STRUCTURE NO. 089-0084
	DATE: 3/03/2009 DRAWN BY JMT CHECKED BY WJV

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End West Appr. Slab	10704+49.69	-18.42	829.33
A	10704+59.69	-18.42	829.14
B	10704+69.69	-18.42	828.96
Bk. West Abutment	10704+79.69	-18.42	828.78

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End West Appr. Slab	10704+49.69	-12.00	829.46
A	10704+59.69	-12.00	829.28
B	10704+69.69	-12.00	829.09
Bk. West Abutment	10704+79.69	-12.00	828.91

☉ ROADWAY & P.G.L.

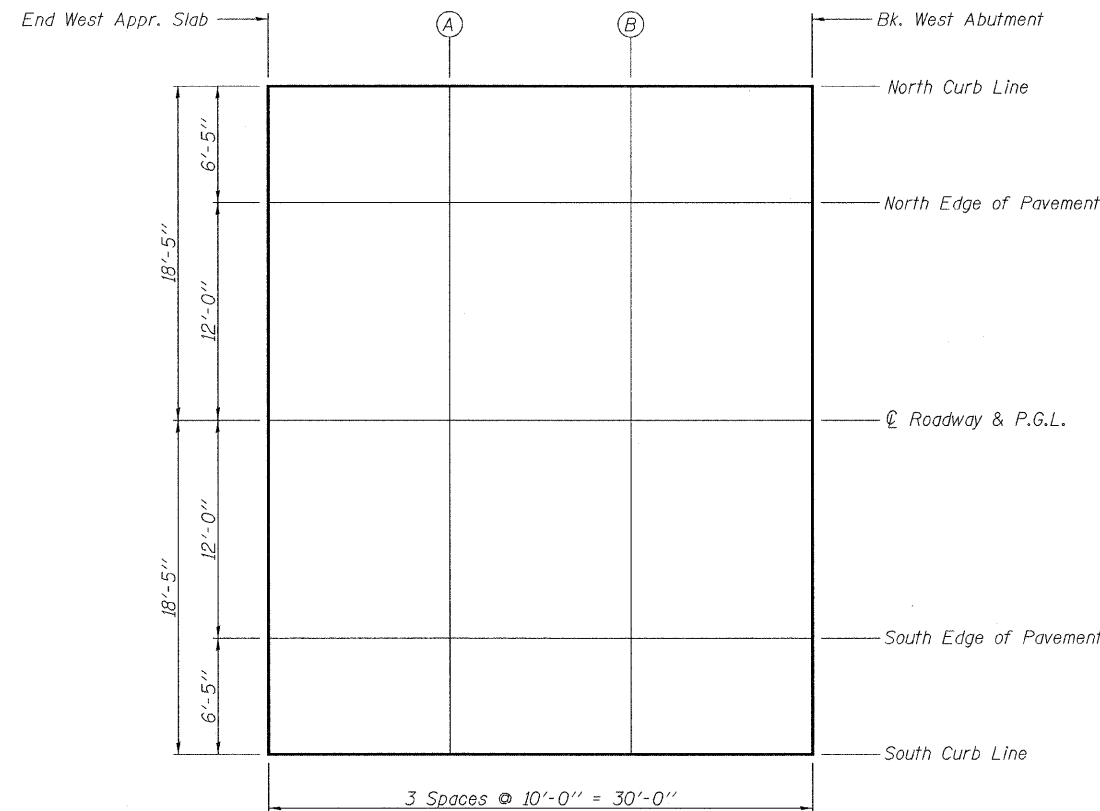
Location	Station	Offset	Theoretical Grade Elevations
End West Appr. Slab	10704+49.69	0.00	829.65
A	10704+59.69	0.00	829.46
B	10704+69.69	0.00	829.28
Bk. West Abutment	10704+79.69	0.00	829.09

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End West Appr. Slab	10704+49.69	12.00	829.46
A	10704+59.69	12.00	829.28
B	10704+69.69	12.00	829.09
Bk. West Abutment	10704+79.69	12.00	828.91

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End West Appr. Slab	10704+49.69	18.42	829.33
A	10704+59.69	18.42	829.14
B	10704+69.69	18.42	828.96
Bk. West Abutment	10704+76.69	18.42	828.78



PLAN

<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	ILLINOIS DEPARTMENT OF TRANSPORTATION
	<p>TOP OF WEST APPROACH SLAB ELEVATIONS IL-75 OVER ROCK RUN CREEK FAP RTE 505 - SECTION 111B STEPHENSON COUNTY STATION 10705+38.61 STRUCTURE NO. 089-0084</p>
DATE: 3/03/2009	DRAWN BY JMT CHECKED BY BLB

Contract #64970

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abutment	10705+97.53	-18.42	826.65
A	10706+07.53	-18.42	826.50
B	10706+17.53	-18.42	826.37
End East Appr. Slab	10706+27.53	-18.42	826.25

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abutment	10705+97.53	-12.00	826.78
A	10706+07.53	-12.00	826.64
B	10706+17.53	-12.00	826.51
End East Appr. Slab	10706+27.53	-12.00	826.39

☉ ROADWAY & P.G.L.

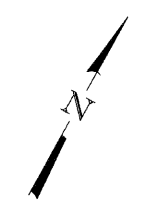
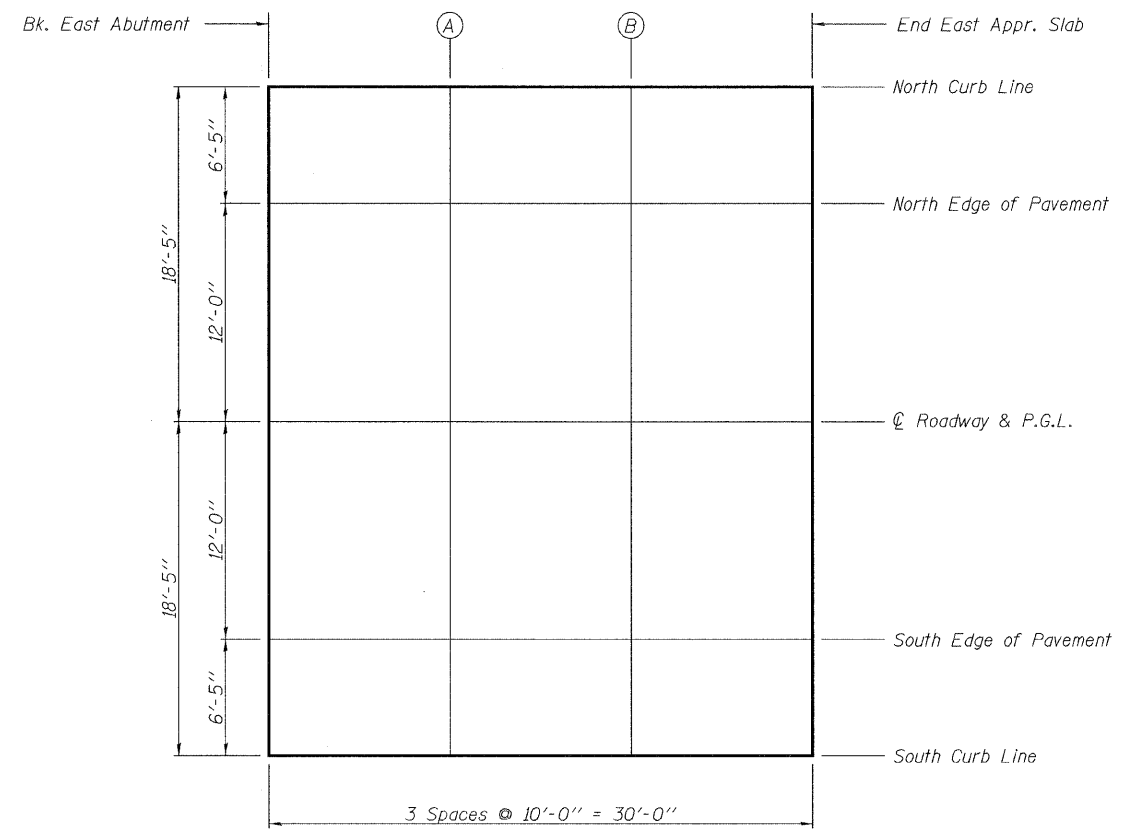
Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abutment	10705+97.53	0.00	826.97
A	10706+07.53	0.00	826.82
B	10706+17.53	0.00	826.69
End East Appr. Slab	10706+27.53	0.00	826.58

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abutment	10705+97.53	12.00	826.78
A	10706+07.53	12.00	826.64
B	10706+17.53	12.00	826.51
End East Appr. Slab	10706+27.53	12.00	826.39

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abutment	10705+97.53	18.42	826.65
A	10706+07.53	18.42	826.50
B	10706+17.53	18.42	826.37
End East Appr. Slab	10706+27.53	18.42	826.25



PLAN

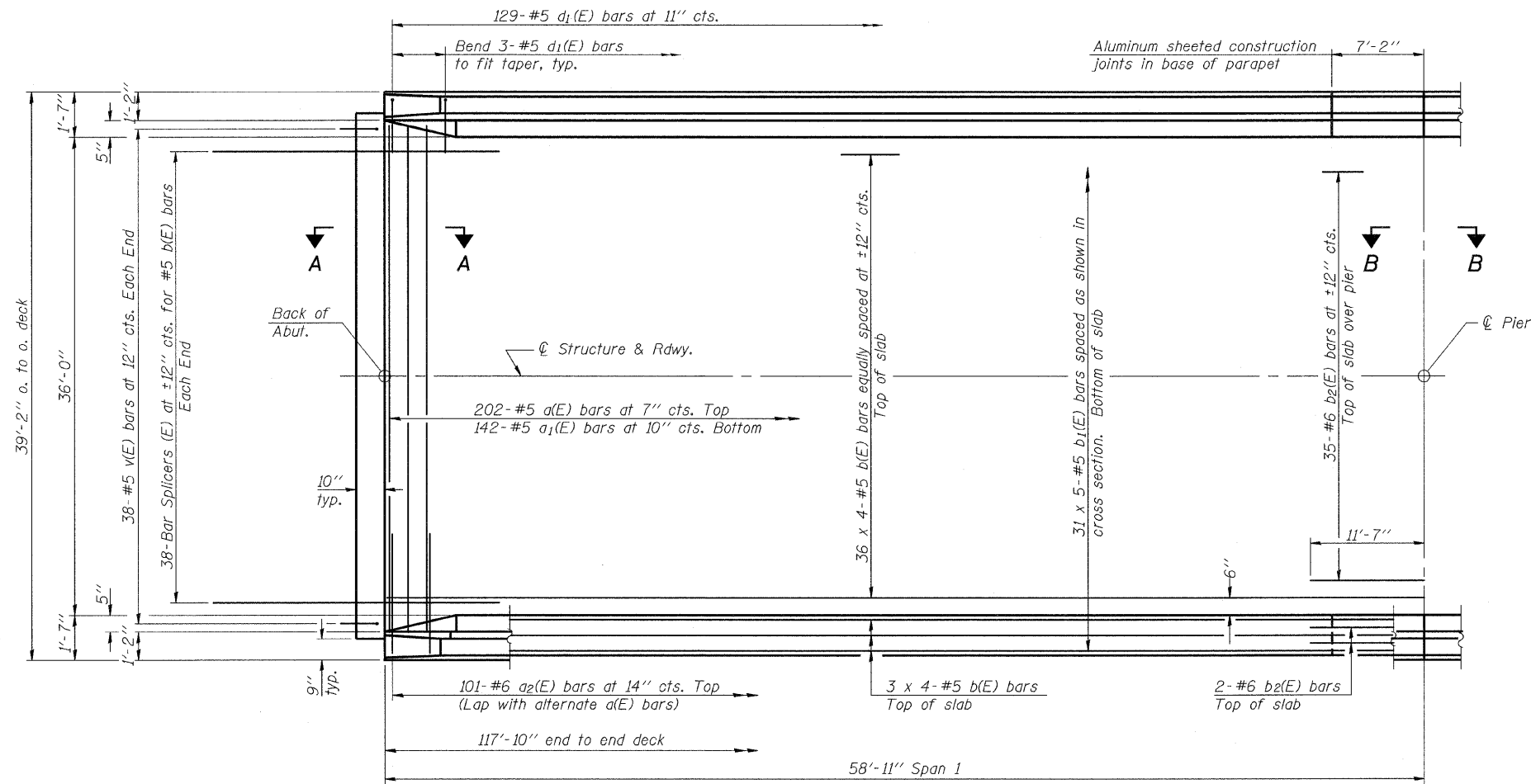
rjngroup
 Excellence through Ownership
 200 West Front Street
 Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TOP OF EAST APPROACH SLAB ELEVATIONS
 IL-75 OVER ROCK RUN CREEK
 FAP RTE 505 - SECTION 111B
 STEPHENSON COUNTY
 STATION 10705+38.61
 STRUCTURE NO. 089-0084
 DATE: 3/03/2009
 DRAWN BY JMT
 CHECKED BY WJV

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ROUTE NO.	SECTION	COUNTY	FORM SHEETS	SHEET NO.	SHEET NO. 7 18 SHEETS
FAP 505	111B	STEPHENSON	335	123	
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	

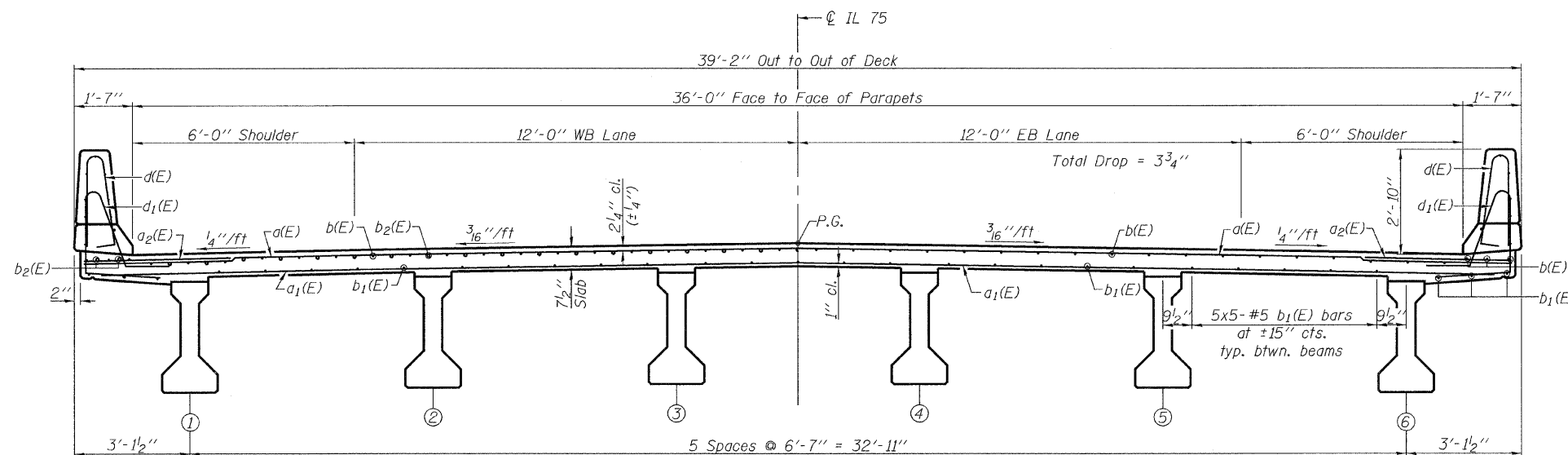
Contract #64970



HALF PLAN

NOTES:

See Sheet 8 of 18 for Superstructure Details, Bill of Materials, and parapet reinforcement.
 See Sheet 9 of 18 for Section A-A, Section B-B, and Diaphragm Details.
 See Sheet 16 of 18 for Bar Splicer Details.
 Bars indicated thus 36 x 4-#5 etc. indicates 36 lines of bars with 4 lengths per line.
 Minimum bar lap for #5 bar = 2'-2".



CROSS SECTION

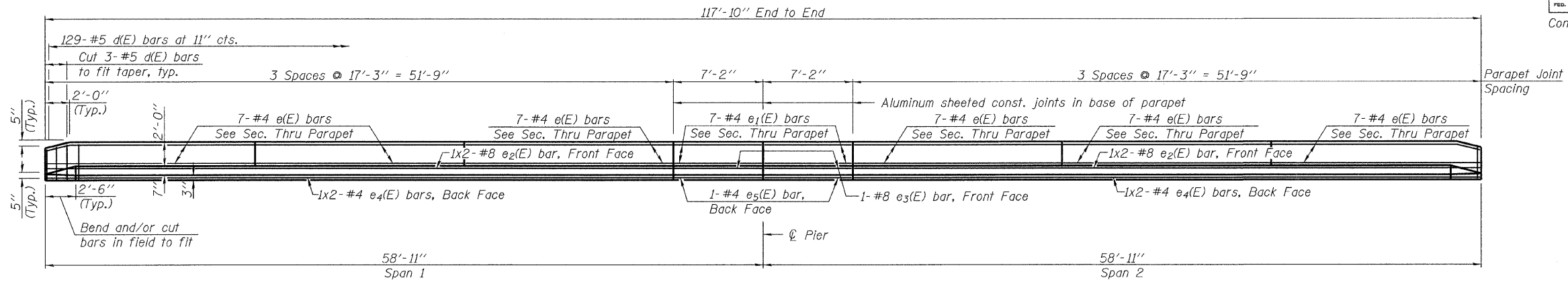
(Looking East)

SI-2-0

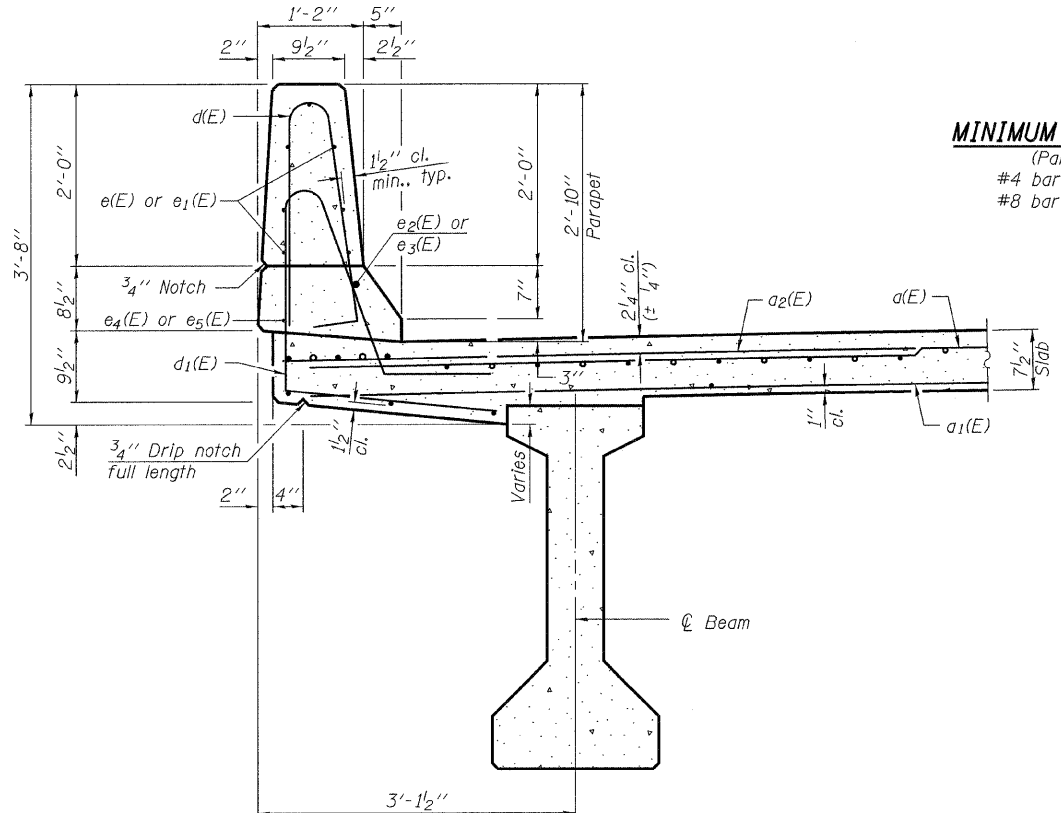
10-22-04

<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	ILLINOIS DEPARTMENT OF TRANSPORTATION
	<p>SUPERSTRUCTURE IL-75 OVER ROCK RUN CREEK FAP RTE 505 - SECTION 111B STEPHENSON COUNTY STATION 10705+38.61 STRUCTURE NO. 089-0084</p>
DATE: 3/03/2009	DRAWN BY JMT CHECKED BY WJV

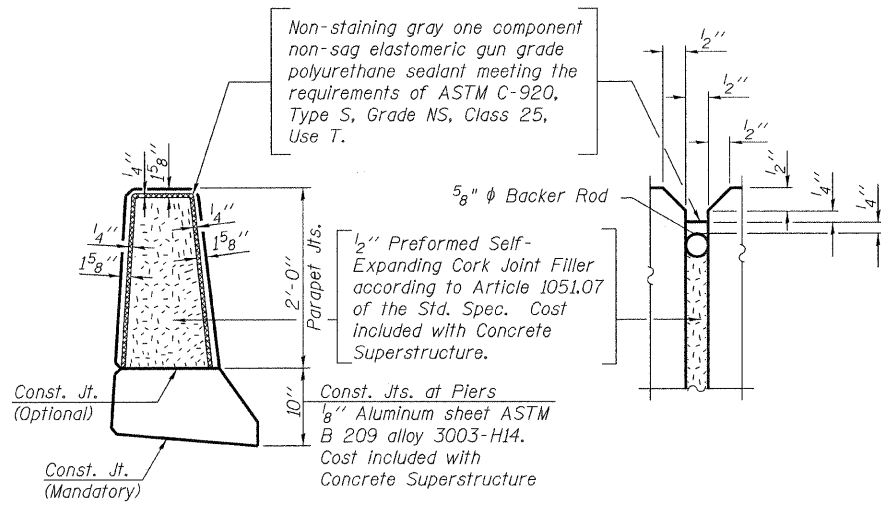
Contract #64970



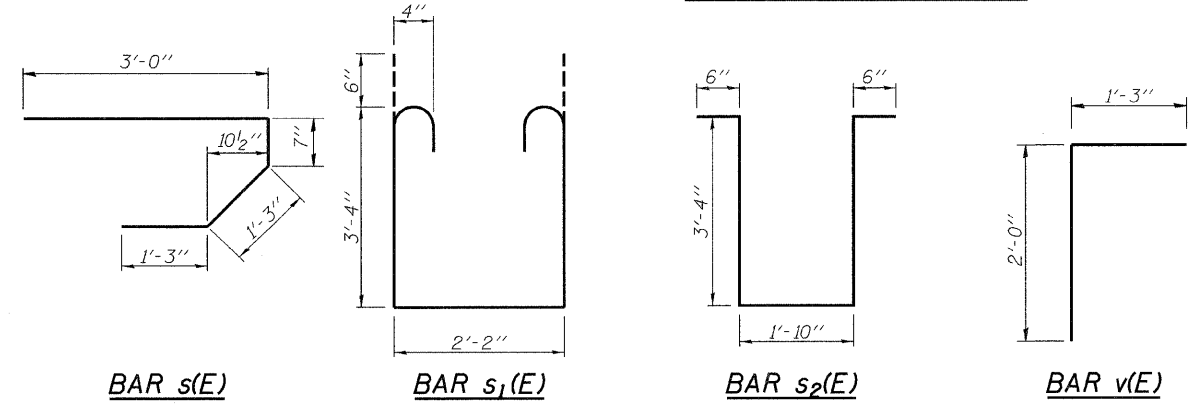
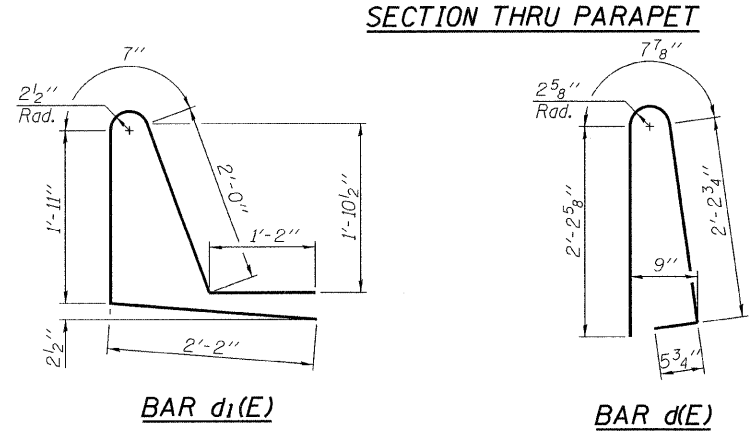
INSIDE ELEVATION OF PARAPET



MINIMUM BAR LAP
(Parapet)
#4 bar = 1'-4"
#8 bar = 3'-5"



PARAPET JOINT DETAILS



SUPERSTRUCTURE BILL OF MATERIAL

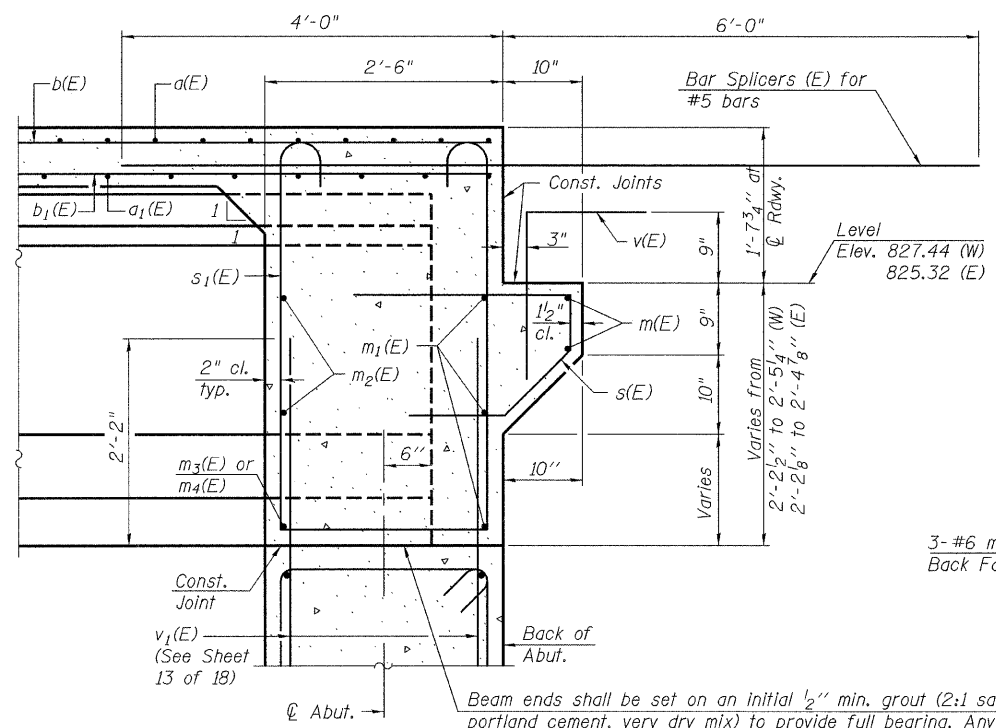
Bar	No.	Size	Length	Shape
a(E)	202	#5	38'-7"	—
a ₁ (E)	142	#5	37'-11"	—
a ₂ (E)	202	#6	4'-6"	—
b(E)	168	#5	31'-1"	—
b ₁ (E)	155	#5	25'-3"	—
b ₂ (E)	39	#6	23'-2"	—
d(E)	258	#5	5'-7"	┘
d ₁ (E)	258	#5	7'-10"	┘
e(E)	84	#4	16'-11"	—
e ₁ (E)	28	#4	6'-10"	—
e ₂ (E)	8	#8	27'-6"	—
e ₃ (E)	4	#8	6'-10"	—
e ₄ (E)	8	#4	26'-5"	—
e ₅ (E)	4	#4	6'-10"	—
m(E)	4	#6	37'-5"	—
m ₁ (E)	6	#6	38'-11"	—
m ₂ (E)	24	#6	8'-9"	—
m ₃ (E)	20	#6	4'-10"	—
m ₄ (E)	4	#6	2'-1"	—
m ₅ (E)	20	#4	5'-10"	—
m ₆ (E)	6	#8	5'-6"	—
s(E)	72	#4	6'-1"	┘
s ₁ (E)	62	#4	9'-10"	┘
s ₂ (E)	25	#4	9'-6"	┘
v(E)	76	#5	3'-3"	┘
Reinforcement Bars, Epoxy Coated		Lbs.	33,840	
Concrete Superstructure		Cu. Yds.	163.9	
Bar Splicers		Each	76	

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200 West Front Street
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE DETAILS
IL-75 OVER ROCK RUN CREEK
FAP RTE 505 - SECTION 111B
STEPHENSON COUNTY
STATION 10705+38.61
STRUCTURE NO. 089-0084
DATE: 3/03/2009
DRAWN BY JMT
CHECKED BY WJV

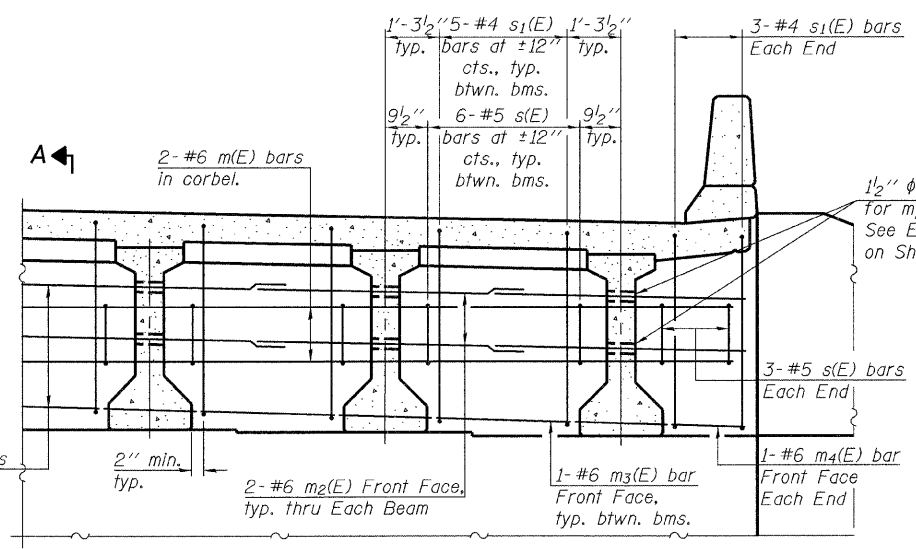
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 9
FAP 505	111B	STEPHENSON	335	125	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. ROAD PROJECT			

Contract #64970



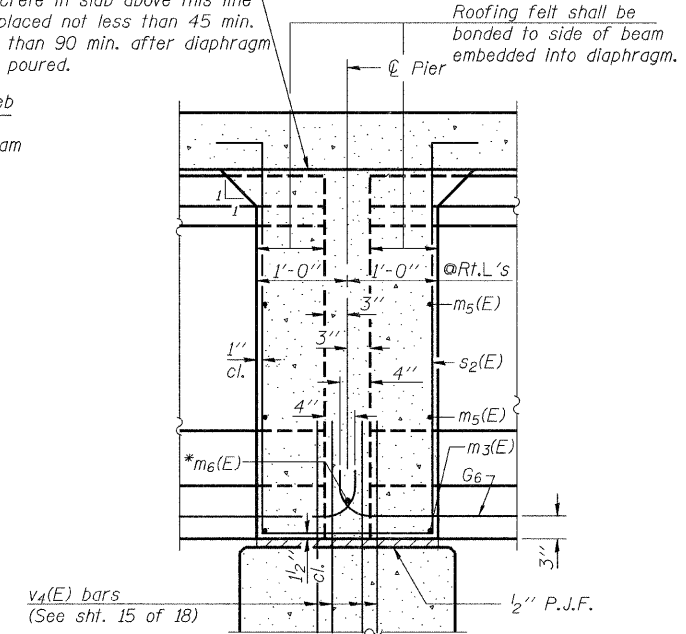
SECTION A-A

Beam ends shall be set on an initial 1/2" min. grout (2:1 sand and portland cement, very dry mix) to provide full bearing. Any excess grout squeezed out from under the beam shall be removed. Cost included with Concrete Structures.



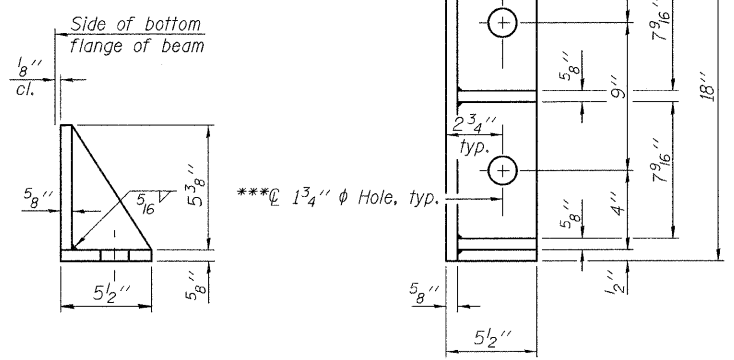
DIAPHRAGM ELEVATION AT ABUTMENT

Pour diaphragm flush with bott. of slab. Concrete in slab above this line shall be placed not less than 45 min. nor more than 90 min. after diaphragm has been poured.



SECTION B-B AT PIER
(Fixed)

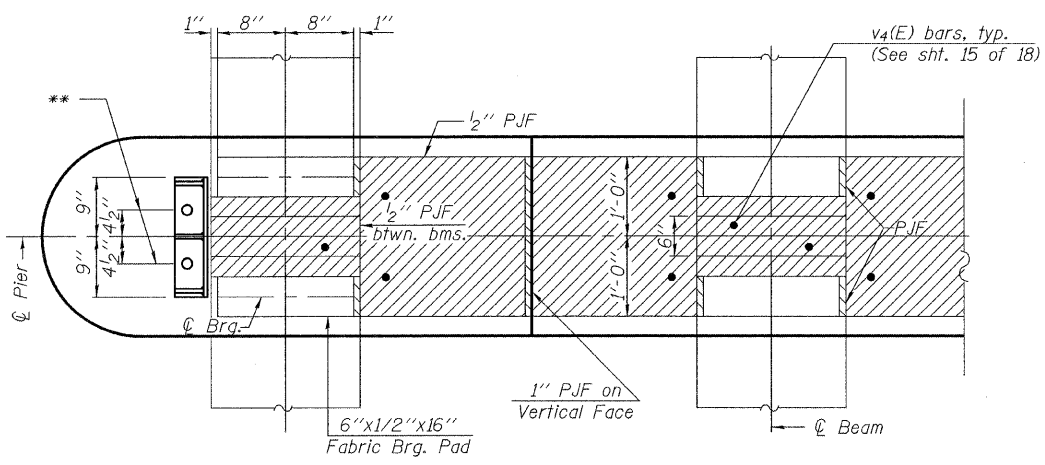
*Tightly fasten the #8 bars together with No. 9 wire ties.



SIDE RETAINER

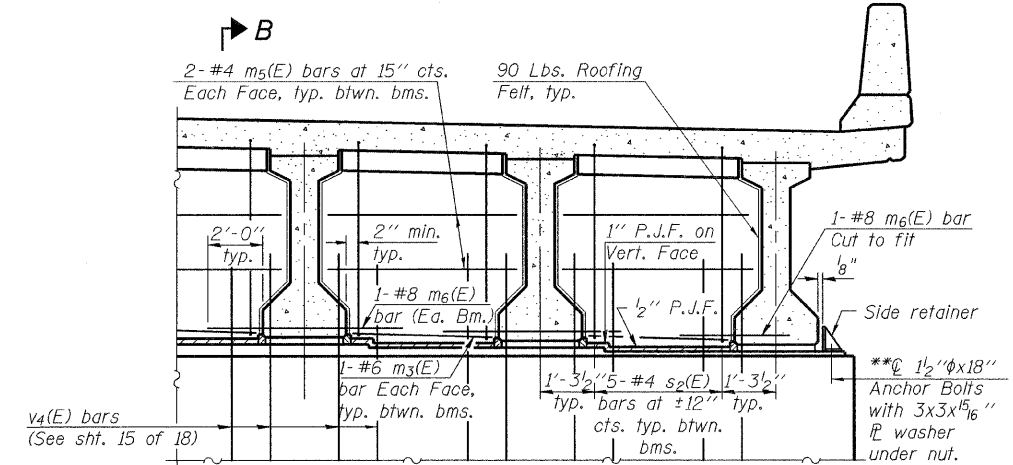
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

MIN. BAR LAP
#6 bar = 2'-9"



BEARING PAD DETAIL AT PIER

**Holes in cap to be drilled after beams are in place

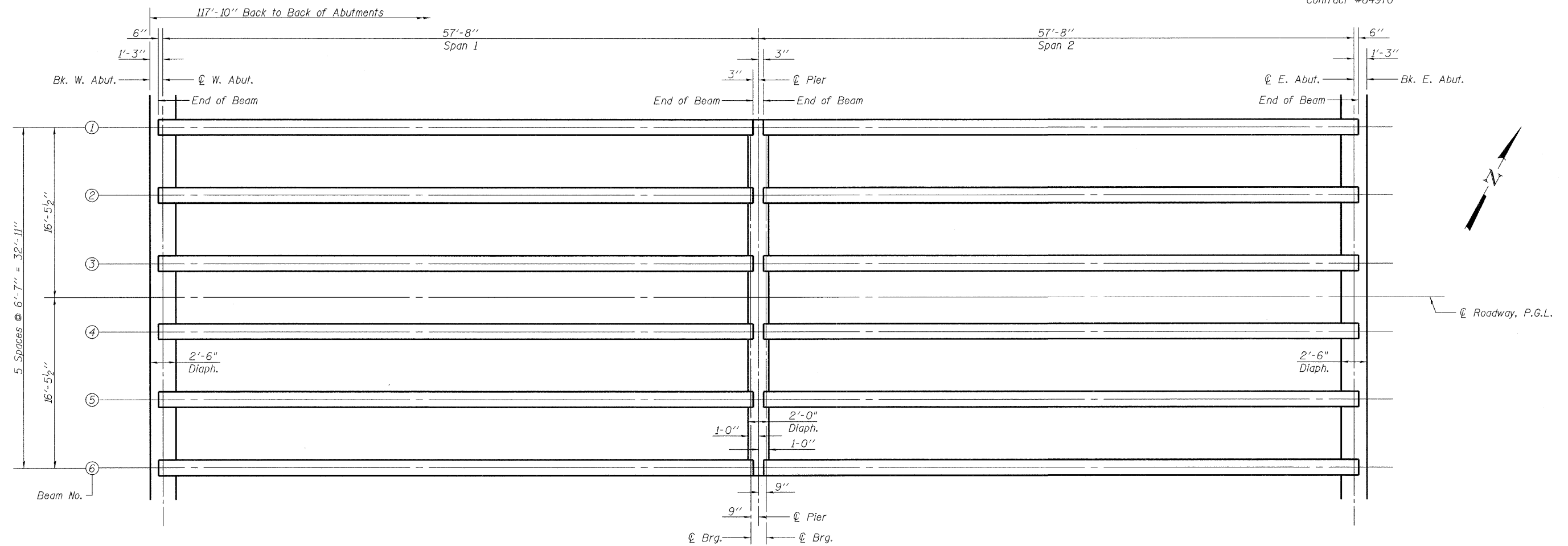


DIAPHRAGM AT PIER
(Fixed)

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 18.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 18.
 For details of bars s(E), s1(E) and s2(E) see sheet 8 of 18.
 The s(E), s1(E) and s2(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
 Cost of 90 Lb. roofing felt is included with Concrete Superstructure.
 The side retainer shall be galvanized after shop fabrication according to AASHTO M 111. Cost of side retainer and anchor bolts shall be included with Concrete Structures.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	ILLINOIS DEPARTMENT OF TRANSPORTATION
	DIAPHRAGM DETAILS
	IL-75 OVER ROCK RUN CREEK FAP RTE 505 - SECTION 111B STEPHENSON COUNTY STATION 10705+38.61 STRUCTURE NO. 089-0084
	DATE: 3/03/2009

DRAWN BY JMT
CHECKED BY BLB



FRAMING PLAN

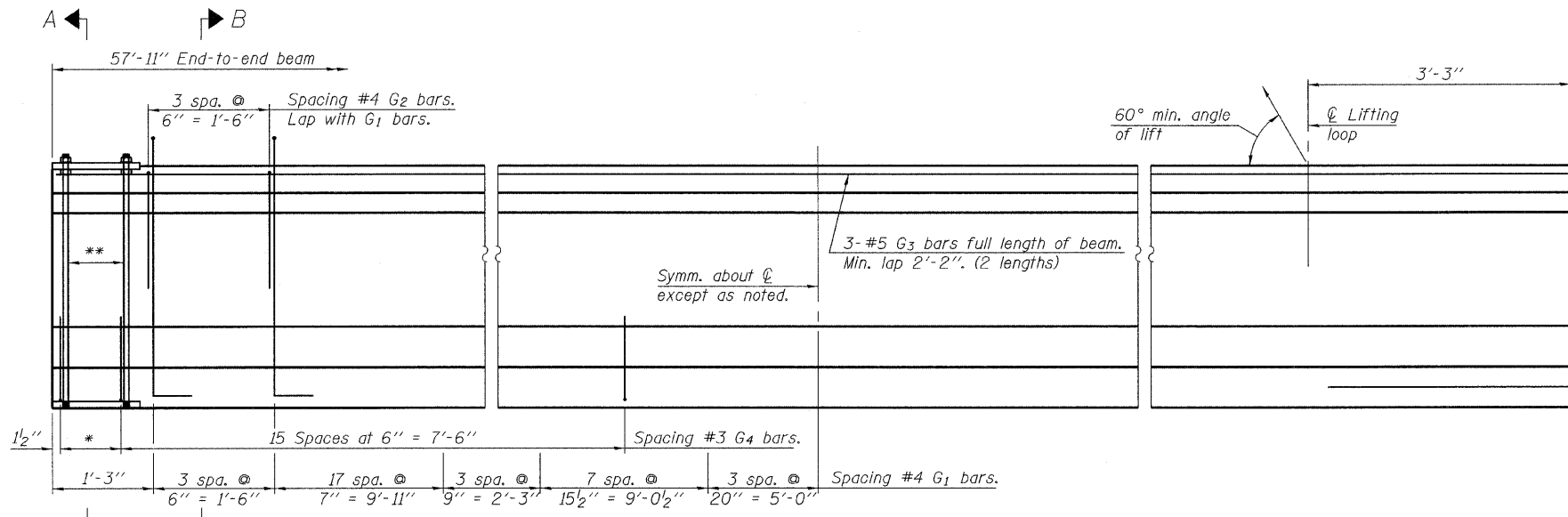
	0.4 Sp. #1 0.6 Sp. #2	Pier
I	(in ⁴) 48,648	-
I'	(in ⁴) 169,118	-
S_b	(in ³) 3165	-
S_b'	(in ³) 5838	-
S_t	(in ³) 2358	-
S_t'	(in ³) 24,057	-
\bar{Q}	(k/')	1.005
$M \bar{Q}$	(k)	418
$s \bar{Q}$	(k/')	0.450
$M s \bar{Q}$	(k)	105
$M \bar{L}$	(k)	367
$M (Imp)$	(k)	99

	Abut.	Pier Span 1 Pier Span 2
$R \bar{Q}$	(k) 29.0	29.0
$R s \bar{Q}$	(k) 9.8	16.2
$R \bar{L}$	(k) 34.6	21.6
$Imp.$	(k) 9.3	5.8
$R (Total)$	(k) 82.7	72.6

I and I' are the moment of inertia and composite moment of inertia of the beam section.
 S_b and S_b' are the non-composite and composite section modulus for the bottom fiber of the prestressed beam.
 S_t and S_t' are the non-composite and composite section modulus for the top fiber of the prestressed beam.

<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	<p>ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p>FRAMING PLAN AND BEAM MOMENT AND REACTION TABLE</p> <p>IL-75 OVER ROCK RUN CREEK FAP RTE 505 - SECTION 111B STEPHENSON COUNTY STATION 10705+38.61 STRUCTURE NO. 089-0084</p>
	<p>DATE: 3/03/2009</p> <p>DRAWN BY JMT CHECKED BY WJV</p>

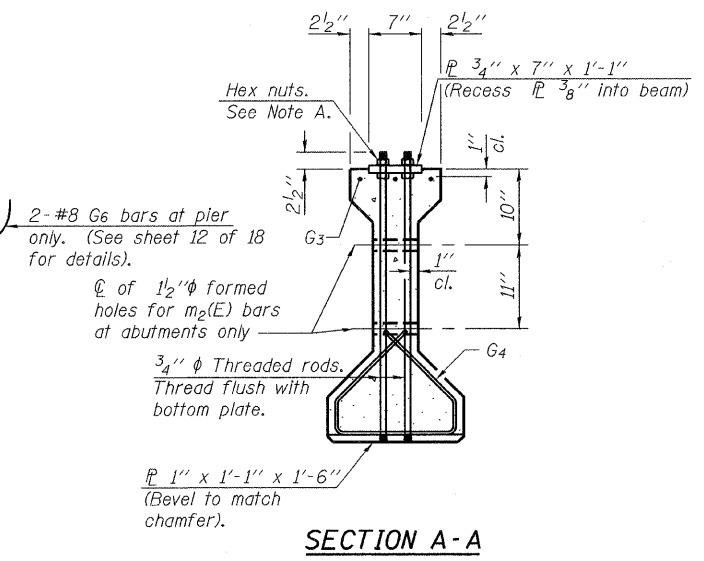
Contract #64970



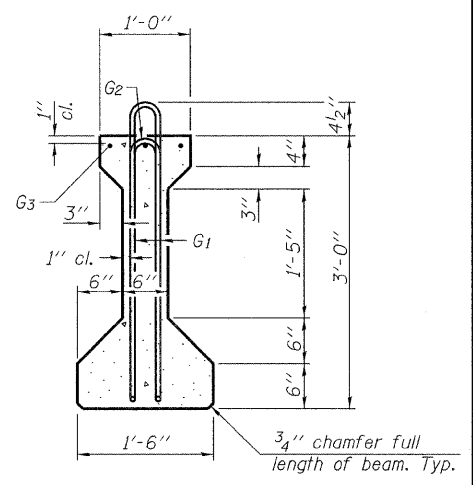
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

* 3 spaces at 3" = 9".
** 4-3/4" φ threaded dowel rods at 3" cts., each face.

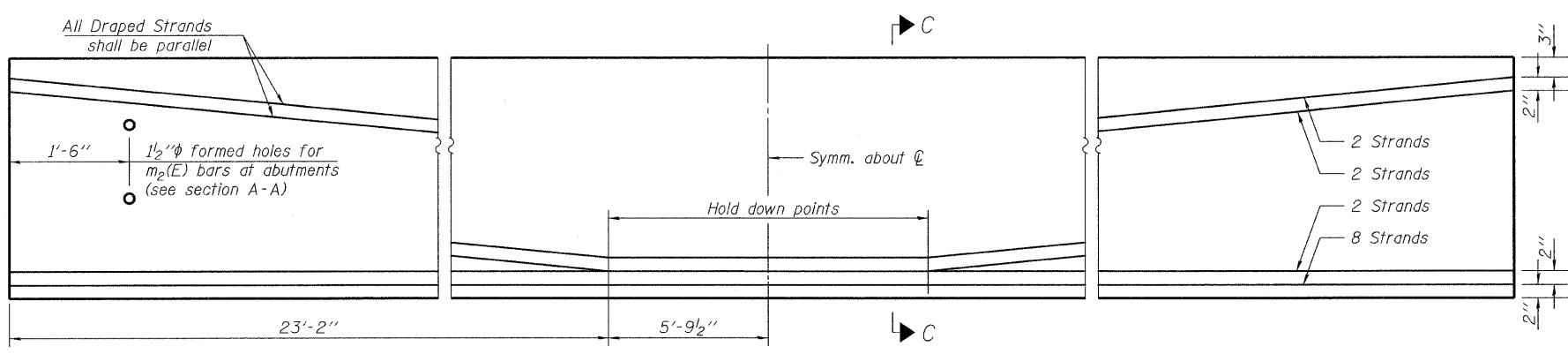
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



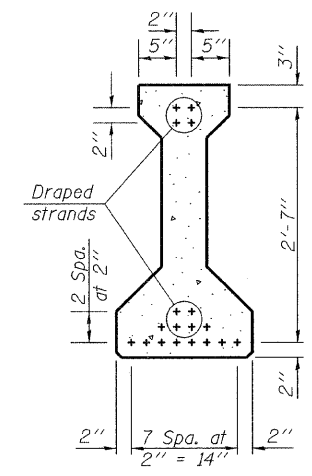
SECTION A-A



SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C

BAR LIST
ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G ₁	67	#4	7'-5"	∩ L
G ₂	8	#4	3'-10"	∩
G ₃	6	#5	30'-1"	—
G ₄	38	#3	4'-1"	∩
G ₆	2	#8	3'-9"	U

Notes:
See sheet 12 of 18 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5000 psi.

3/2/2009 K:\11156800\Structures\Rock Run Bridge\Final_Plans.dgn

<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	ILLINOIS DEPARTMENT OF TRANSPORTATION
	<p>36" P.P.C. I-BEAM IL-75 OVER ROCK RUN CREEK FAP RTE 505 - SECTION 111B STEPHENSON COUNTY STATION 10705+38.61 STRUCTURE NO. 089-0084</p>
	<p>DATE: 3/03/2009 DRAWN BY: LCM CHECKED BY: WJV</p>

Contract #64970

NOTES

Inserts for $\frac{3}{4}$ " ϕ threaded dowel rods, when specified, are to be two strut, coil type for interior beams and single coil, flared loop type for exterior beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.

The nominal diameter shall be $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in.

Non-prestressing steel shall conform to ASTM A 706 (IL MOD), Grade 60.

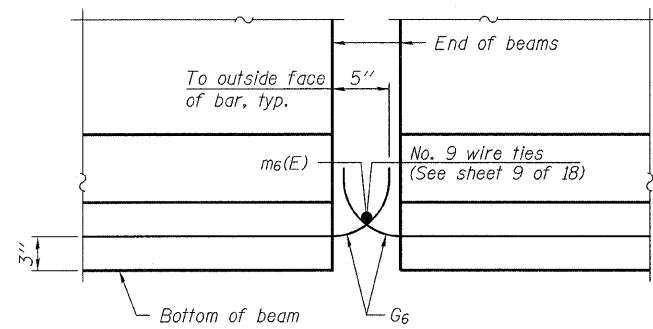
A minimum $2\frac{1}{2}$ " ϕ lifting pin shall be used to engage the lifting loops during handling.

Cut G₆ bars when necessary to maintain $\frac{1}{2}$ " clearance.

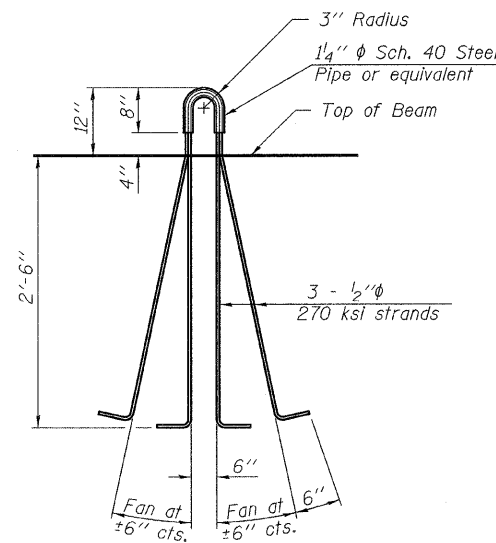
The bottom plates and studs shall be galvanized according to AASHTO M11.

Threaded rods shall be ASTM F 1554 Grade 55.

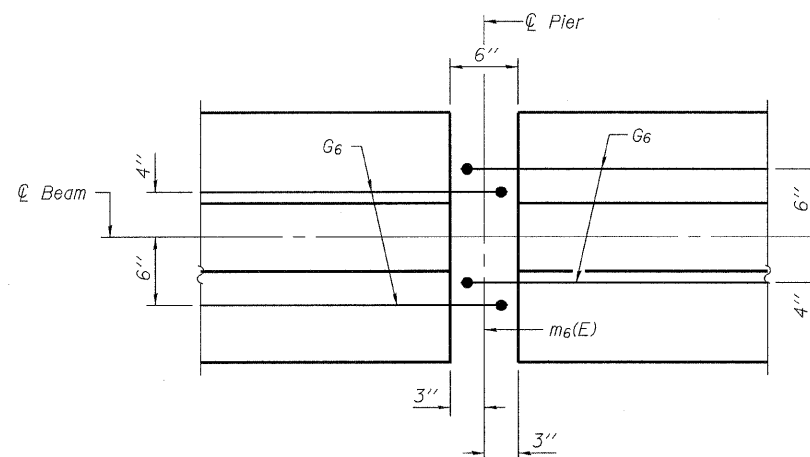
The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to all portions of the I-beam or Bulb-T beam, except the top surface of the top flange and the bottom surface of the bottom flange, starting at each beam end and extending out a distance of 36 inches. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.



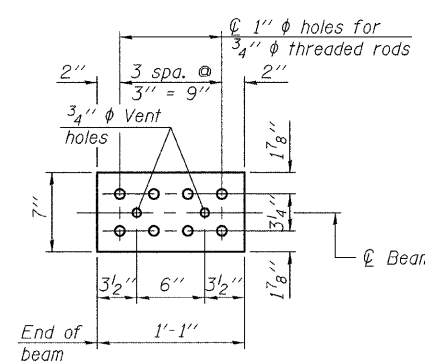
ELEVATION OF BEAM AT PIER



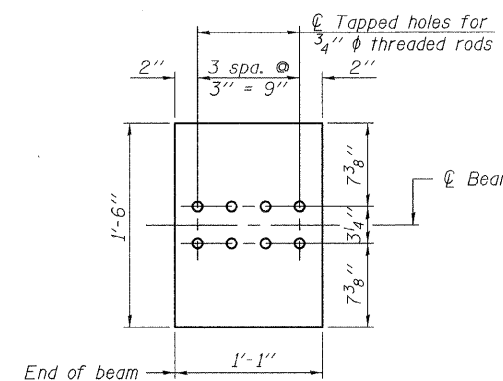
LIFTING LOOP DETAIL



PLAN OF BEAM AT PIER

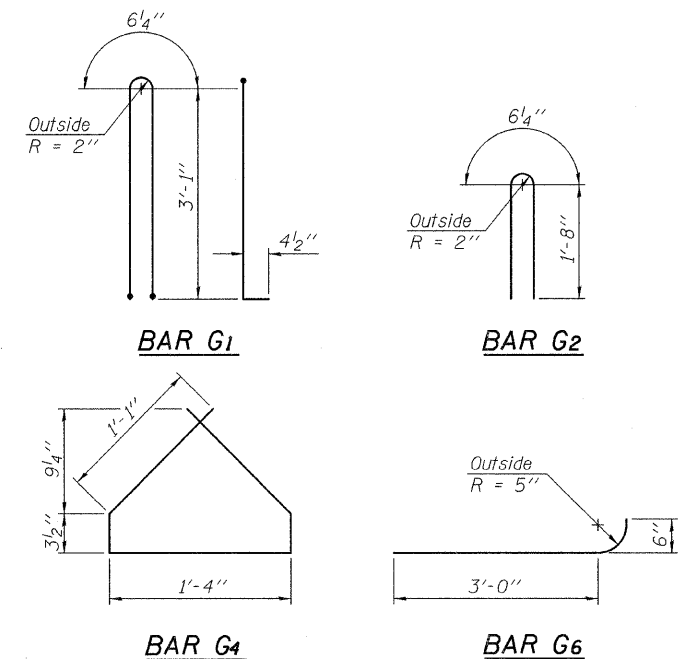


TOP PLATE



BOTTOM PLATE

See bearing details for pintle hole locations when required.

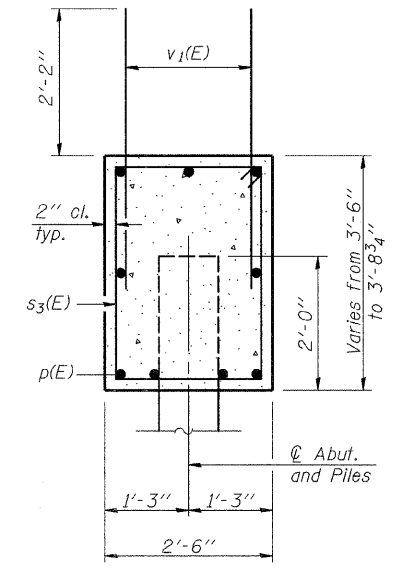
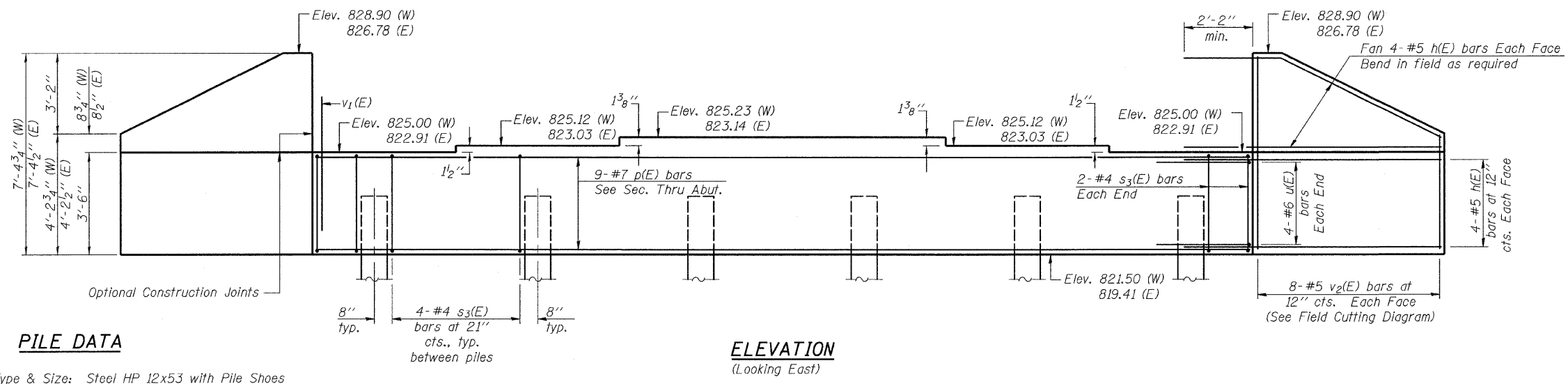


BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36"	Ft.	695

<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	ILLINOIS DEPARTMENT OF TRANSPORTATION
	<p>36" P.P.C. I-BEAM DETAILS IL-75 OVER ROCK RUN CREEK FAP RTE 505 - SECTION 111B STEPHENSON COUNTY STATION 10705+38.61 STRUCTURE NO. 089-0084</p>
DATE: 3/03/2009	DRAWN BY LCM CHECKED BY WJV

Contract #64970



PILE DATA

Type & Size: Steel HP 12x53 with Pile Shoes
 Nominal Required Bearing: 419 kips
 Allowable Resistance Available: 140 kips
 Est. Length: 17.8' (East Abutment)
 13.7' (West Abutment)
 No. Req'd: 5 (East Abutment) plus 1 Test Pile
 5 (West Abutment) plus 1 Test Pile
 The Steel H-piles shall be according to AASHTO M270 Grade 50.
 The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

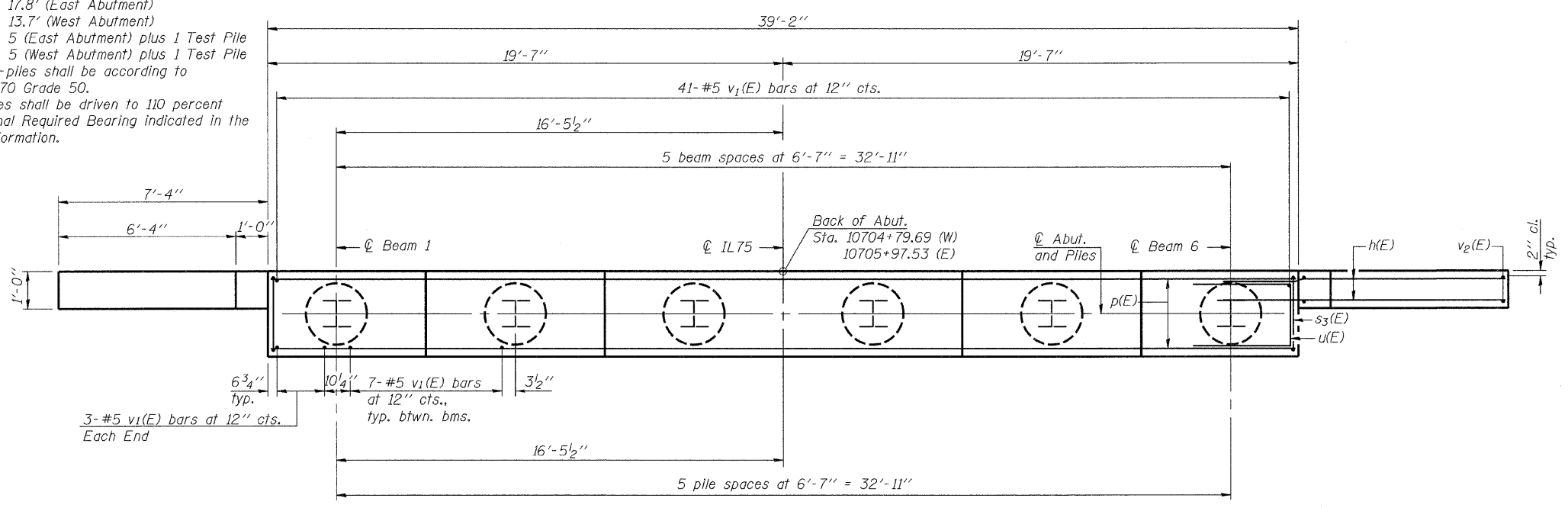
ELEVATION
(Looking East)

SEC. THRU ABUT.

BILL OF MATERIAL

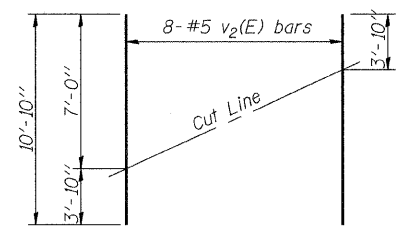
Bar	No.	Size	Length	Shape
h(E)	64	#5	9'-6"	—
p(E)	18	#7	38'-11"	—
s3(E)	48	#4	11'-5"	□
u(E)	16	#6	7'-3"	—
v1(E)	164	#5	4'-4"	—
v2(E)	32	#5	10'-10"	—
Concrete Structures		Cu. Yd.	32.7	
Reinforcement Bars, Epoxy Coated		Pound	3710	
Structure Excavation		Cu. Yd.	270	
Furnishing Steel Piles HP 12x53		Foot	157.5	
Driving Piles		Foot	157.5	
Test Pile Steel HP 12x53		Each	2	
Pile Shoes		Each	12	
Concrete Encasement		Cu. Yd.	4.2	

*Structure Excavation for W. Abut. = 135 Cu. Yd., E. Abut. = 135 Cu. Yd.



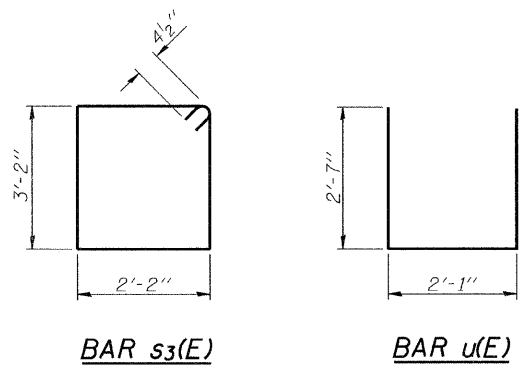
PLAN

Notes:
 Pour steps monolithically with cap.
 All edges shall have standard 3/4\"/>



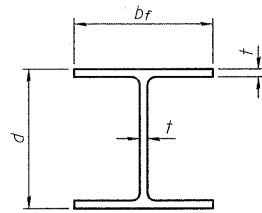
FIELD CUTTING DIAGRAM

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



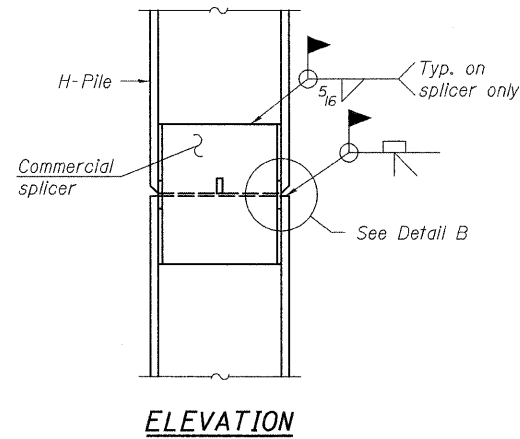
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 ABUTMENT DETAILS
 IL-75 OVER ROCK RUN CREEK
 FAP RTE 505 - SECTION 111B
 STEPHENSON COUNTY
 STATION 10705+38.61
 STRUCTURE NO. 089-0084
 DATE: 3/03/2009
 DRAWN BY JMT
 CHECKED BY JWJ

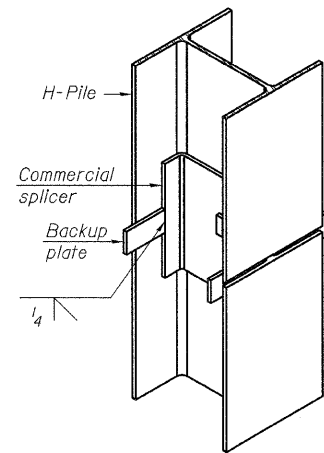


STEEL PILE TABLE

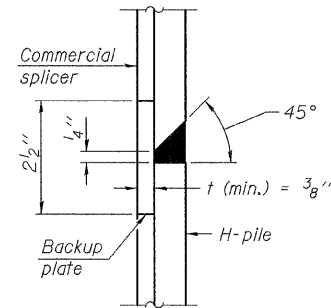
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	5/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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

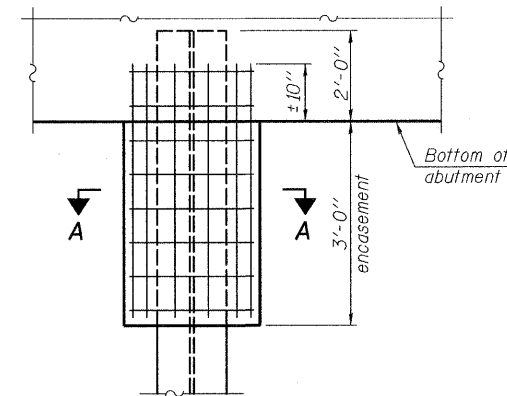


ISOMETRIC VIEW



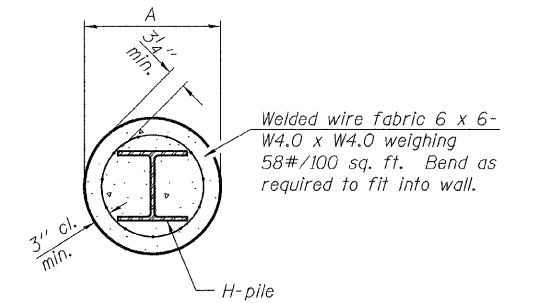
DETAIL "B"

WELDED COMMERCIAL SPLICE



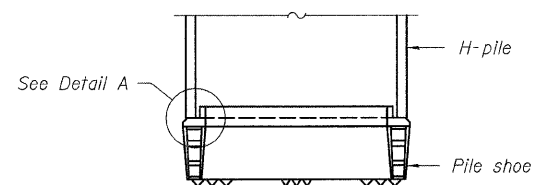
ELEVATION

PILE ENCASEMENT

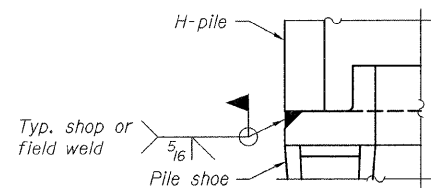


SECTION A-A

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

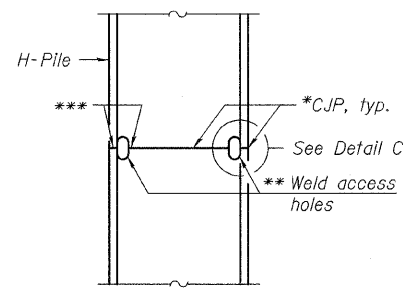


ELEVATION

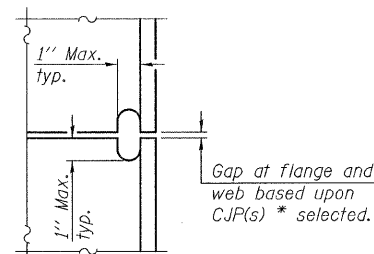


DETAIL A

H-PILE SHOE ATTACHMENT



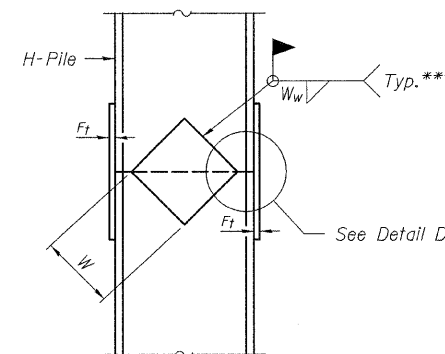
ELEVATION



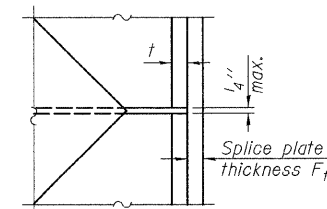
DETAIL C

COMPLETE PENETRATION WELD SPLICE

- * 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.



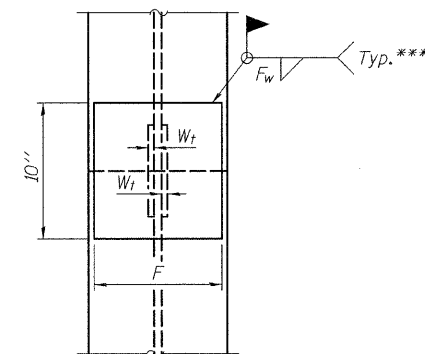
ELEVATION



DETAIL D

WELDED PLATE FIELD SPLICE

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



END VIEW

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

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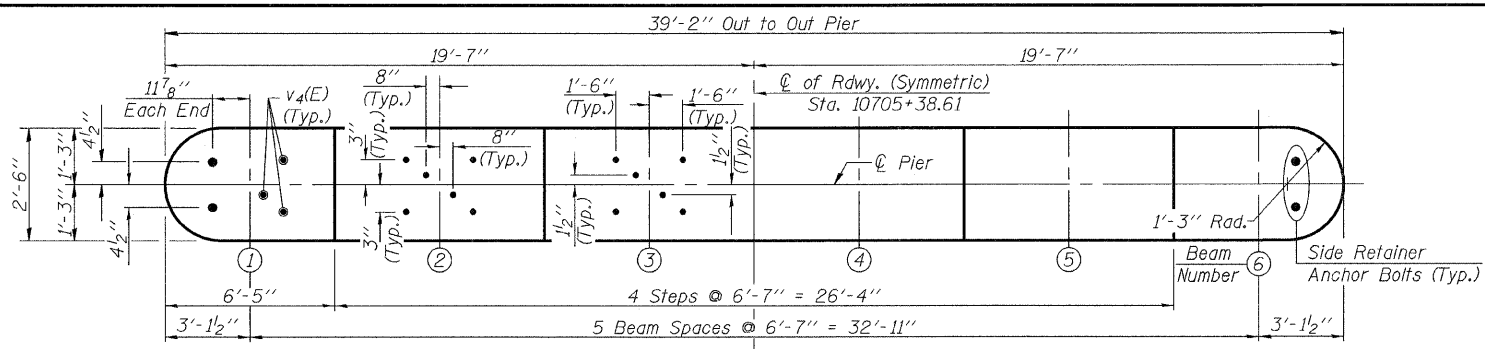
ILLINOIS DEPARTMENT OF TRANSPORTATION

STEEL H-PILE DETAILS
IL-75 OVER ROCK RUN CREEK
FAP RTE 505 - SECTION 111B
STEPHENSON COUNTY
STATION 10705+38.61
STRUCTURE NO. 089-0084

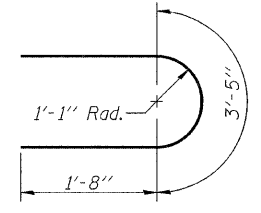
DATE: 3/03/2009

DRAWN BY JMT
CHECKED BY WJV

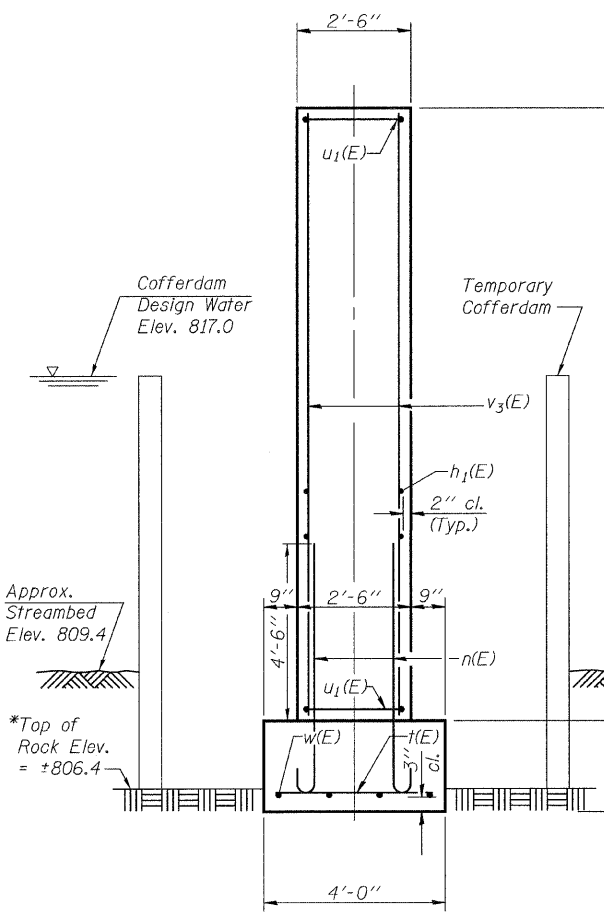
Notes: Space reinforcement in pier to miss anchor bolts.
 Four steps monolithically with pier.
 All edges shall have standard $\frac{3}{4}$ " chamfers.
 See Sheet 9 of 18 for Anchor Bolt Installation.
 See Sheet 9 of 18 for additional reinforcement and anchor bolt location detail.
 Contractor shall submit a design of the cofferdam to the Engineer for approval.
 Minimum bar lap for #4 bar = 1'-8".
 Bars indicated thus 11x2-#4 etc. indicates 11 lines of bars with 2 lengths per line.



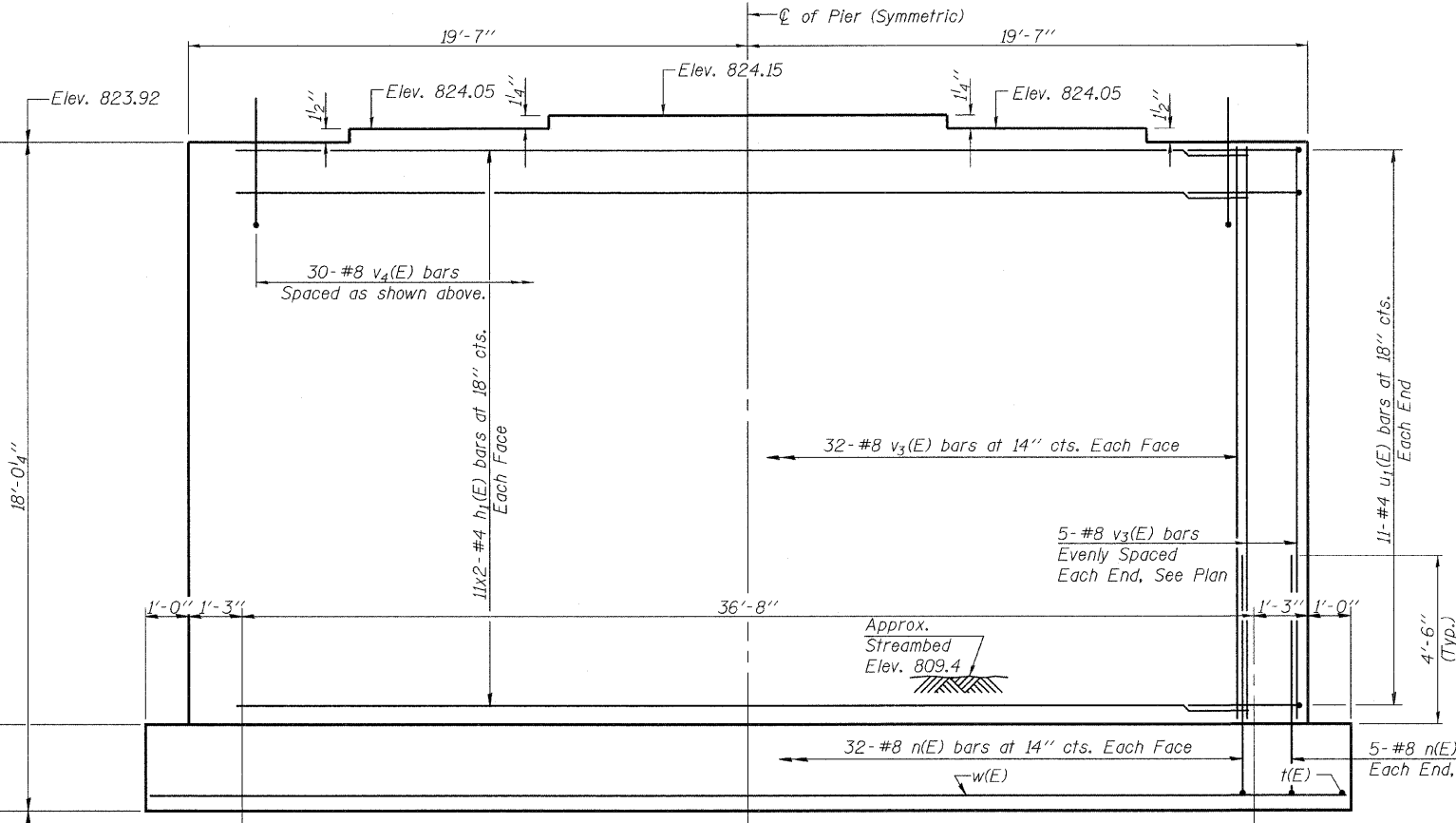
TOP PLAN



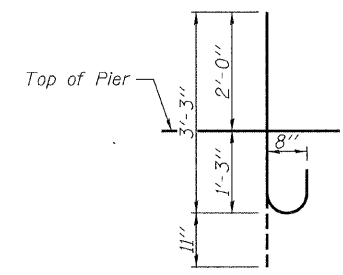
BAR u₁(E)



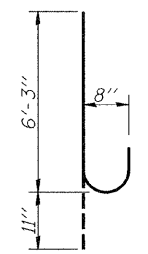
END VIEW



ELEVATION
(Looking East)



BAR v₄(E)

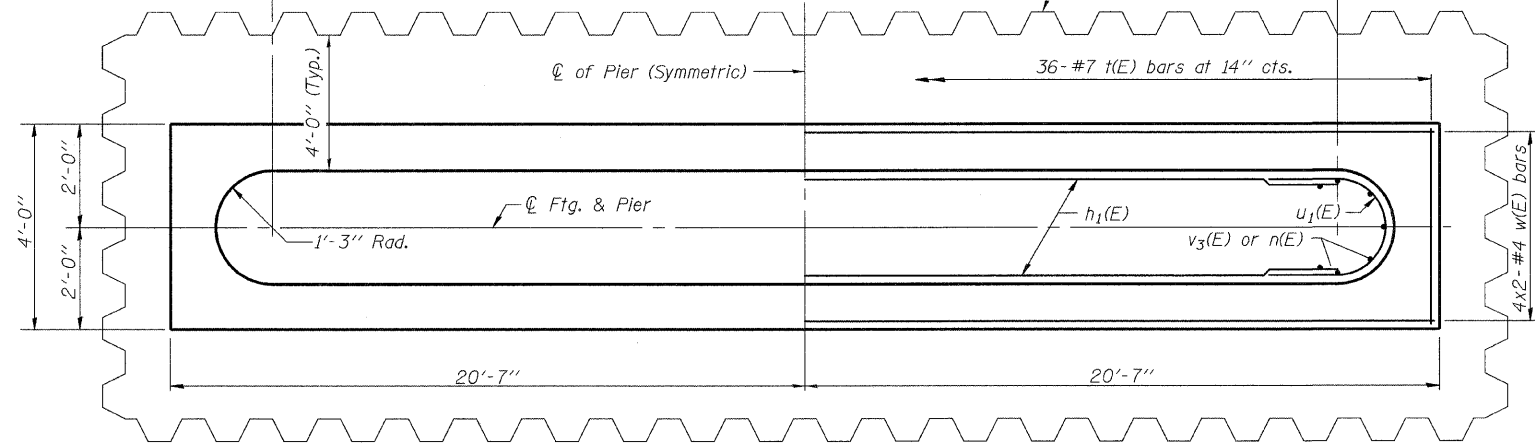


BAR n(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁ (E)	44	#4	19'-2"	—
n(E)	74	#8	7'-2"	U
t(E)	36	#7	3'-6"	—
u ₁ (E)	22	#4	6'-9"	U
v ₃ (E)	74	#8	15'-9"	—
v ₄ (E)	30	#8	4'-2"	U
w(E)	8	#4	21'-2"	—
Concrete Structures			Cu. Yd.	70
Reinforcement Bars, Epoxy Coated			Pound	5900
Cofferdam Excavation			Cu. Yd.	55
Rock Excavation for Structures			Cu. Yd.	3

* Indicated bottom of footing elevations are based on available subsurface data, the bottom of footing should be set a minimum of 6" into sound rock. The Contractor shall delay ordering the Pier reinforcement until the rock elevation can be verified. If the total height of the wall is increased by more than 2 feet from that shown on the plans due to the encountered rock elevation, the wall and footing should be redesigned.



FOOTING PLAN

Maximum Bearing Pressure = 5.9 ksf

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ILLINOIS DEPARTMENT OF TRANSPORTATION
PIER DETAILS
 IL-75 OVER ROCK RUN CREEK
 FAP RTE 505 - SECTION 111B
 STEPHENSON COUNTY
 STATION 10705+38.61
 STRUCTURE NO. 089-0084
 DATE: 3/03/2009
 DRAWN BY JMT
 CHECKED BY WJV

Contract #64970

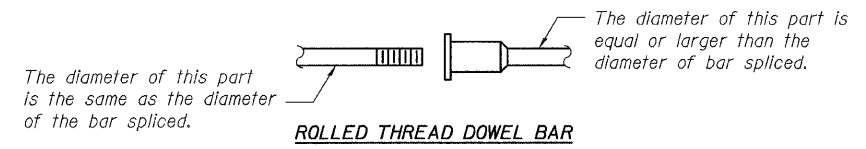
NOTES

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

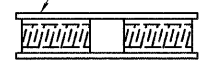


ROLLED THREAD DOWEL BAR



**** ONE PIECE**

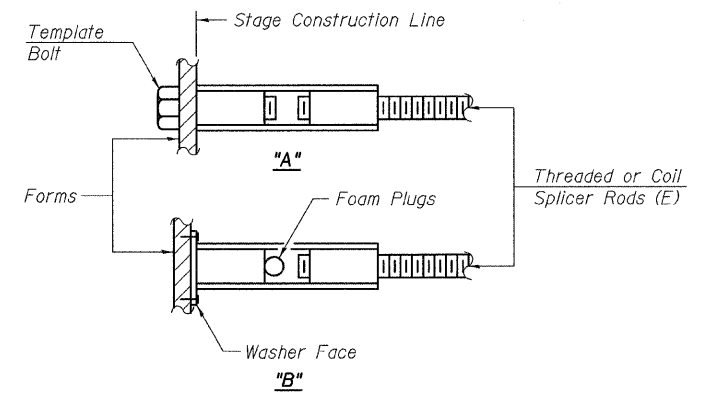
Wire Connector



WELDED SECTIONS

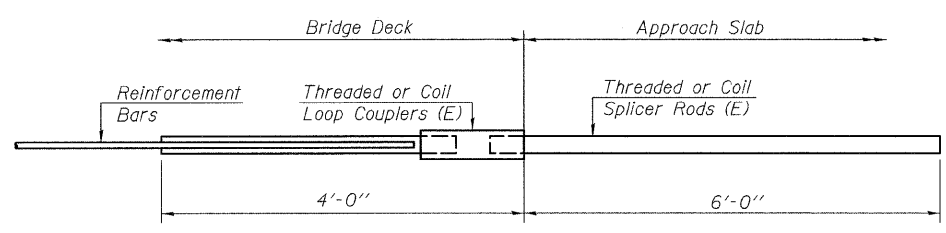
BAR SPLICER ASSEMBLY ALTERNATIVES

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



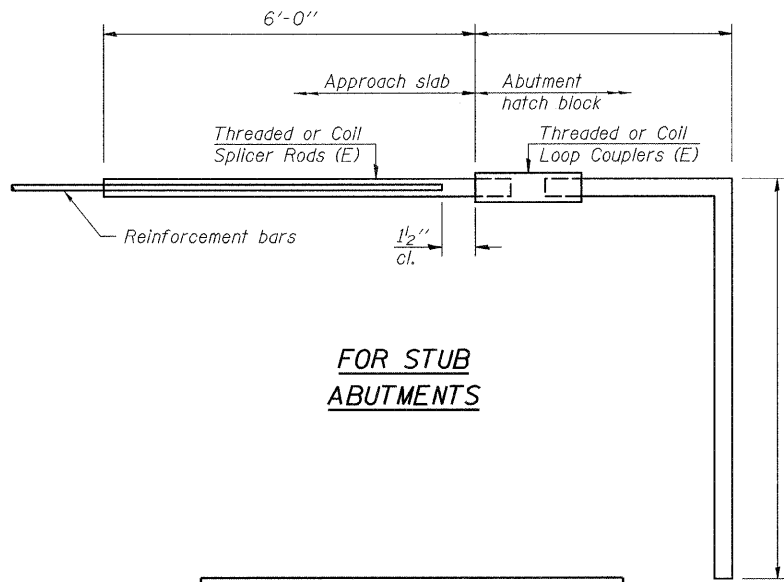
INSTALLATION AND SETTING METHODS

"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.



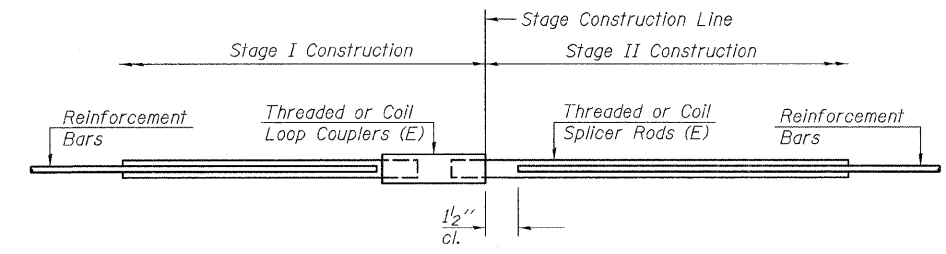
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 76



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 0



STANDARD


Bar Size	No. Assemblies Required	Location

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ILLINOIS DEPARTMENT OF TRANSPORTATION
 BAR SPICER ASSEMBLY DETAILS
 IL-75 OVER ROCK RUN CREEK
 FAP RTE 505 - SECTION 111B
 STEPHENSON COUNTY
 STATION 10705+38.61
 STRUCTURE NO. 089-0084
 DATE: 3/03/2009
 DRAWN BY JMT
 CHECKED BY WJV

3/2/2009 K:\11195800\Structures\Rock Run Bridge\Email Plans\dgn

Contract #64970



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1
Date 10/18/04

ROUTE FAP 505 DESCRIPTION P92-164-00 IL 75, bridge, Rock Run Creek on IL 75 LOGGED BY W. Garza


SECTION 109RS-2, 110RS-1, 111RS-3, YA-15D-RS LOCATION Rock Run Twp. - 22NE, SEC., TWP. 28N, RNG. 9E

COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. <u>089-0040</u>	D E P T H S	B L O W S	U C S Q u	M O I S T	Surface Water Elev. <u>85.2</u> ft
Station <u>10705+39</u>					Stream Bed Elev. <u>81.2</u> ft
BORING NO. <u>B-1a</u>	(ft)	(in)	(tsf)	(%)	Groundwater Elev.: First Encounter <u>Dry</u> ft Upon Completion <u>Dry</u> ft After <u>Hrs.</u> ft
Station <u>10704+57</u>					
Offset <u>11.00ft Rt CL</u>					
Ground Surface Elev. <u>100.7</u> ft					

DEPTH (ft)	DESCRIPTION	B	U	M	STRENGTH (tsf)
0 - 18	4" Asphalt MEDIUM gray SILTY CLAY LOAM		0.5 P		18
18 - 24	MEDIUM gray SILTY LOAM	2	1 0.5 B		24
24 - 27	SOFT MEDIUM gray SILTY LOAM with ORGANICS	3	1 0.5 B		27
27 - 22	STIFF gray SILTY LOAM	1	1 1.2 B		22
22 - 20	STIFF gray SILTY LOAM	1	2 1.5 B		20
20 - 15	MEDIUM tan/gray weathered LIMESTONE	4	8		
15 - 10	VERY DENSE tan weathered LIMESTONE	15	100/4		
10 - 0	Borehole continued with rock coring.				

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



Illinois Department of Transportation
Division of Highways
IDOT

ROCK CORE LOG

Page 1 of 1
Date 10/18/04

ROUTE FAP 505 DESCRIPTION P92-164-00 IL 75, bridge, Rock Run Creek on IL 75 LOGGED BY W. Garza

SECTION 109RS-2, 110RS-1, 111RS-3, YA-15D-RS LOCATION Rock Run Twp. - 22NE, SEC., TWP. 28N, RNG. 9E


COUNTY Stephenson CORING METHOD _____

STRUCT. NO. <u>089-0040</u>	D E P T H S	C O R E	R E C O V E R Y	R E Q U I R E D	C O R E T I M E	S T R E N G T H
Station <u>10705+39</u>						

DEPTH (ft)	DESCRIPTION	C	R	T	STRENGTH (tsf)
0 - 1	Dolomite: tan-buff, horizontally fractured in 1/4" to 3" segments with minor pitting evident throughout.	1	100	0	1.6
1 - 2	Dolomite: as above	2	100	0	2
2 - 3	Dolomite: light gray, otherwise as above. T.S.F.: 74.5 to 74.0	3	100	23	2.4 1063
3 - 0	End of Boring				

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

3/2/2009 K:\111956900\Structure\Rock Run Bridge\Final Plans.dgn

 Excellence through Ownership 200 West Front Street Wheaton, IL 60187	ILLINOIS DEPARTMENT OF TRANSPORTATION BORING LOGS - I IL-75 OVER ROCK RUN CREEK FAP RTE 505 - SECTION 111B STEPHENSON COUNTY STATION 10705+38.61 STRUCTURE NO. 089-0084
	DATE: 3/03/2009 DRAWN BY JMT CHECKED BY WJV



SOIL BORING LOG

Page 1 of 1
Date 10/19/04

ROUTE FAP 505 DESCRIPTION P92-164-00 Bridge on IL 75, Rock Run Creek LOGGED BY W. Garza
 SECTION 109RS-2, 110RS-1, 111RS-3, YA-15D-RS LOCATION Rock Run Twp. - 22 NE, SEC., TWP. 28N, RNG. 9E
 COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	DEPTH (ft)	B L O W S	U C S Qu (tsf)	M O I S T (%)	Description	DEPTH (ft)	B L O W S	U C S Qu (tsf)	M O I S T (%)
10705+39					12" Asphalt MEDIUM brown SILTY CLAY LOAM	85.2	8	7	
			0.8 P	17		81.2	9		
	95.90	2			MEDIUM gray dirty SAND & GRAVEL	76.40			
	94.40	3	0.8 B	21	VERY DENSE tan weathered LIMESTONE	74.40	48		100/5
	91.90	2	0.5 P	25	Borehole continued with rock coring.				
	89.40	4	0.8 P	15					
	86.80	3	0.6 B	29					
	83.90	3	0.9 B	29					
	81.90	4			LOOSE gray dirty SAND & GRAVEL				
	79.40	5			MEDIUM gray tan dirty weathered LIMESTONE				

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 T205)
 BBS, from 137 (Rev. 8-99)



ROCK CORE LOG

Page 1 of 1
Date 10/19/04

ROUTE FAP 505 DESCRIPTION P92-164-00 Bridge on IL 75, Rock Run Creek LOGGED BY W. Garza
 SECTION 109RS-2, 110RS-1, 111RS-3, YA-15D-RS LOCATION Rock Run Twp. - 22 NE, SEC., TWP. 28N, RNG. 9E
 COUNTY Stephenson CORING METHOD

STRUCT. NO. Station	CORING BARREL TYPE & SIZE	DEPTH (ft)	CORING (#)	RECOVERY (%)	CORRECTION (%)	CORE Diameter (in)	CORE Length (ft)	CORE Type	STRENGTH (tsf)
10705+39	Core Diameter 1.5 in Top of Rock Elev. 76.40 ft Begin Core Elev. 74.40 ft								
		76.40	1	95	0	2.4	1109	Dolomite: tan-buff, horizontally fractured in 1/4" to 3" segments with minor pitting evident throughout.	
		69.40	2	100	15	2.4	1109	Dolomite: as above	
		64.40	3	100	0	2.4	0	Dolomite: light gray, otherwise as above	
		59.40						End of Boring	

Color pictures of the cores _____
 Cores will be stored for examination until _____
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)

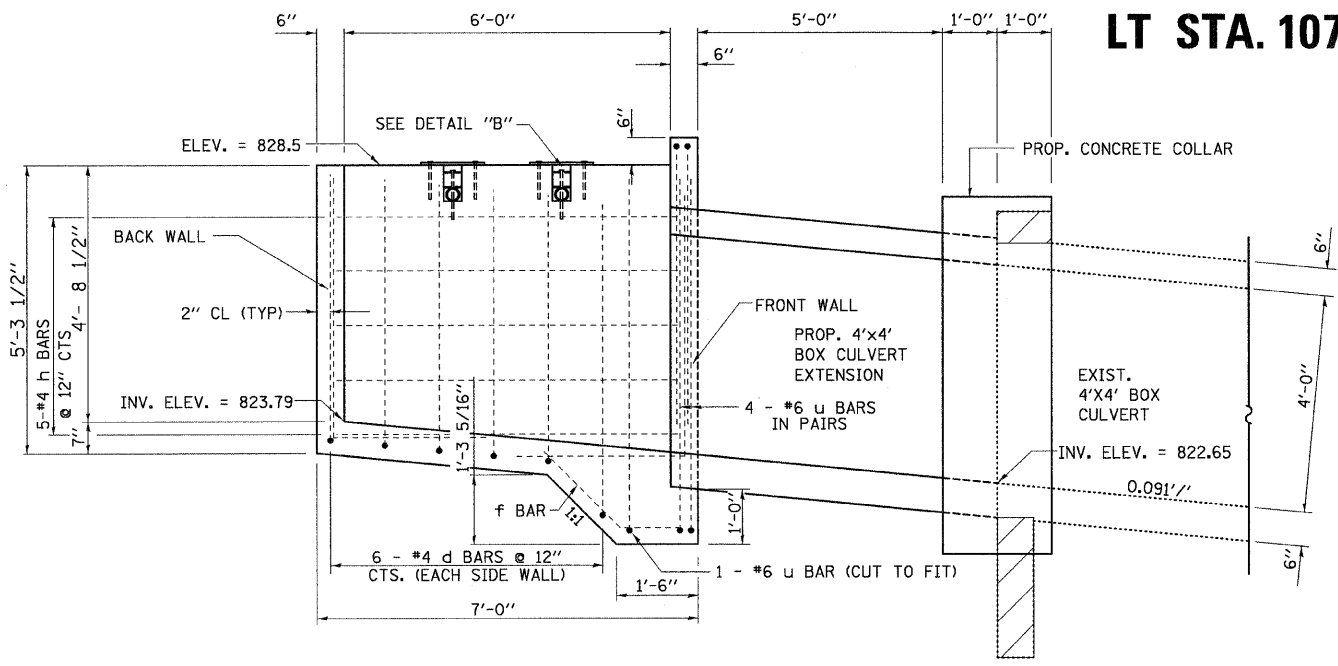
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 BORING LOGS - II
 IL-75 OVER ROCK RUN CREEK
 FAP RTE 505 - SECTION 111B
 STEPHENSON COUNTY
 STATION 10705+38.61
 STRUCTURE NO. 089-0084
 DATE: 3/03/2009
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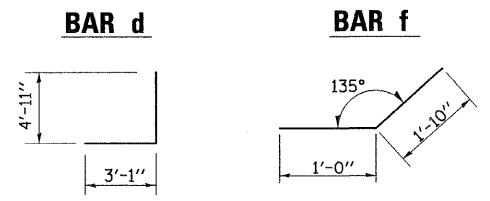
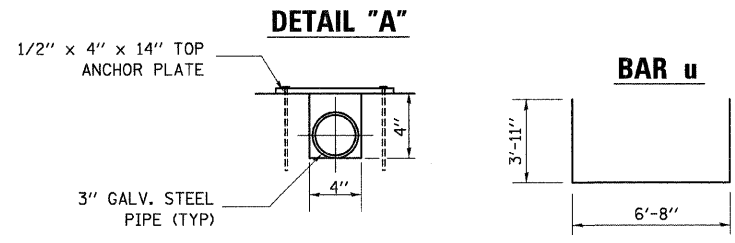
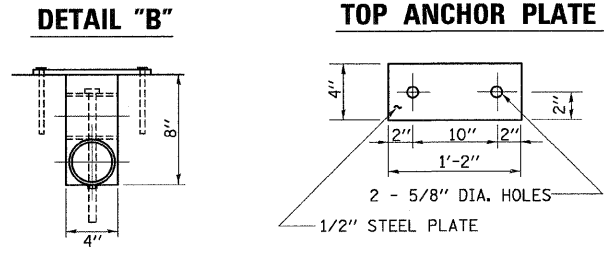
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	STEPHENSON	335	135
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		
*FAP 505 (IL 75) **111RS-4, 111BR-1, Yo-15d-RS-1, & (W-15d)T-1				

DROP BOX NO. 2

LT STA. 10710 + 42



SECTION B-B



BILL OF MATERIALS
(FOR REINFORCEMENT)

BAR	SIZE	NO.	LENGTH	WEIGHT (LB)
d	4	24	8'-0"	128.26
f	4	8	2'-10"	15.14
h	4	31	6'-8"	138.05
u	6	5	14'-6"	108.90
DESCRIPTION	UNIT	QTY		
CONCRETE STRUCTURES	CU YD	3.8		
REINFORCEMENT BARS	LB	400		

BILL OF MATERIALS
(FOR GRATED DROP BOX)

DESCRIPTION	UNIT	QTY.
3" GALVANIZED STEEL PIPE	FOOT	2 @ 7'-0"
	FOOT	2 @ 7'-0"
3" GALV PIPE CAPS	EACH	8
1/4" GALV. STEEL PLATE (9" NOMINAL)	EACH	6
1/2" x 4" x 14" GALV. STEEL PLATE	EACH	6
5/8" x 9" GALV. STEEL BOLTS	EACH	4
EXPANSION BOLTS 1/2"Ø	EACH	12

GENERAL NOTES:

SLOPE FLOW LINE OF THE DROP BOX AT THE SAME RATE AS THE FLOW LINE OF THE BOX CULVERT.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

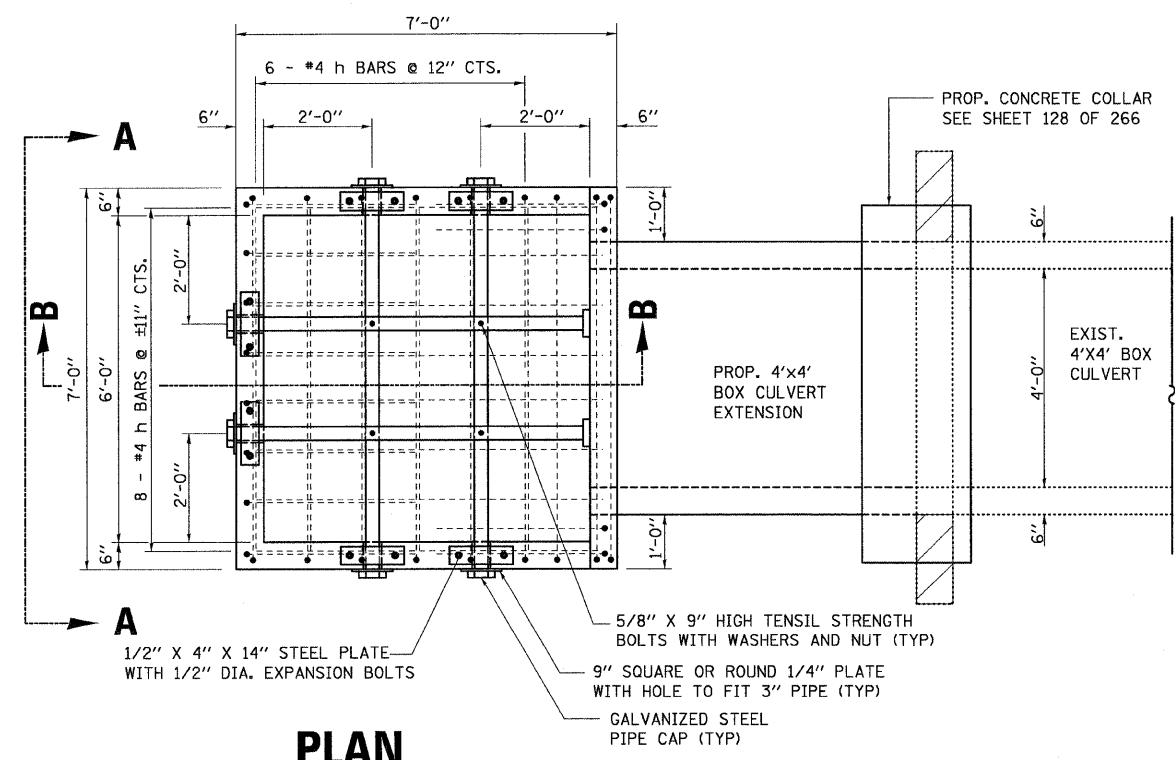
STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120. CONTRATOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

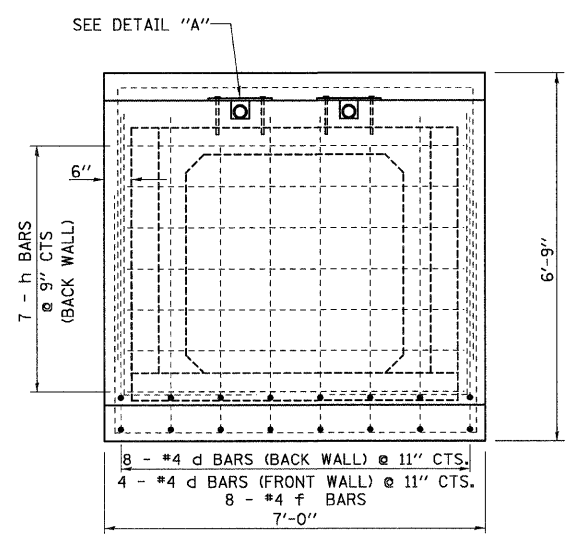
REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A 706 GR 60 (IL MODIFIED). SEE SPEICAL PROVISION.

SEE PLAN AND PROFILE SHEET 57 OF 335 FOR MORE INFORMATION. SEE SHEET 159 OF 335 FOR DETAILS OF BREAKER RUN CRUSED STONE.

THE CONTRACT UNIT PRICE "CU. YD." FOR CONCRETE STRUCTURES SHALL INCLUDE THE GALVANIZED PIPE, BOLTS, NUTS, WASHERS, AND STEEL PLATES, AND ALL APPLICABLE WORK ACCORDING TO SECTION 503 OF THE STANDARD SPECIFICATIONS.



PLAN



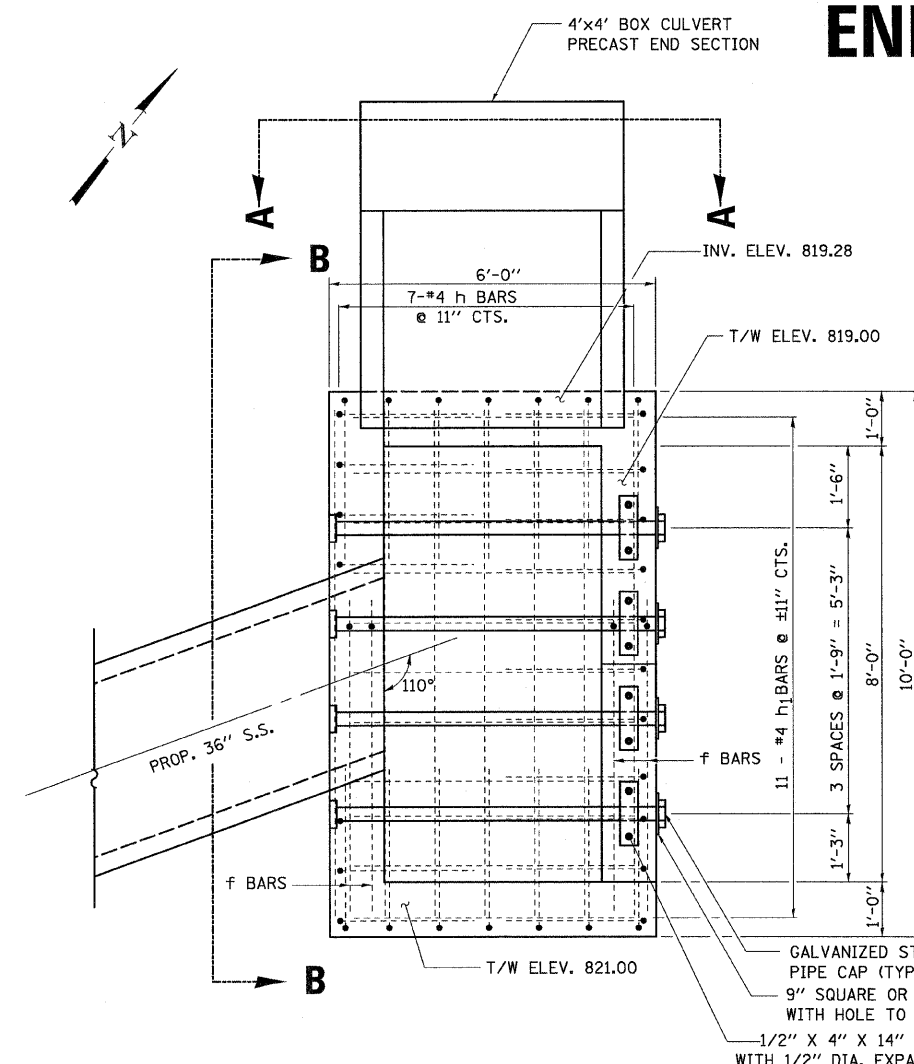
VIEW A-A

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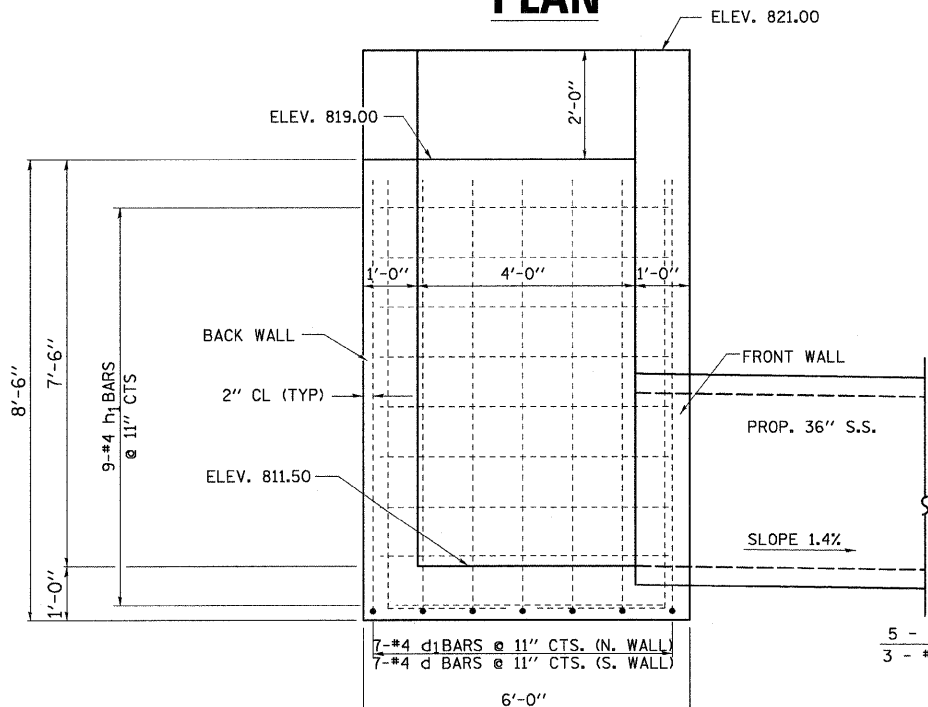
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	STEPHENSON	335	136
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				
*FAP 505 (IL 75)				
**111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1				

ENERGY DISSIPATION STRUCTURE

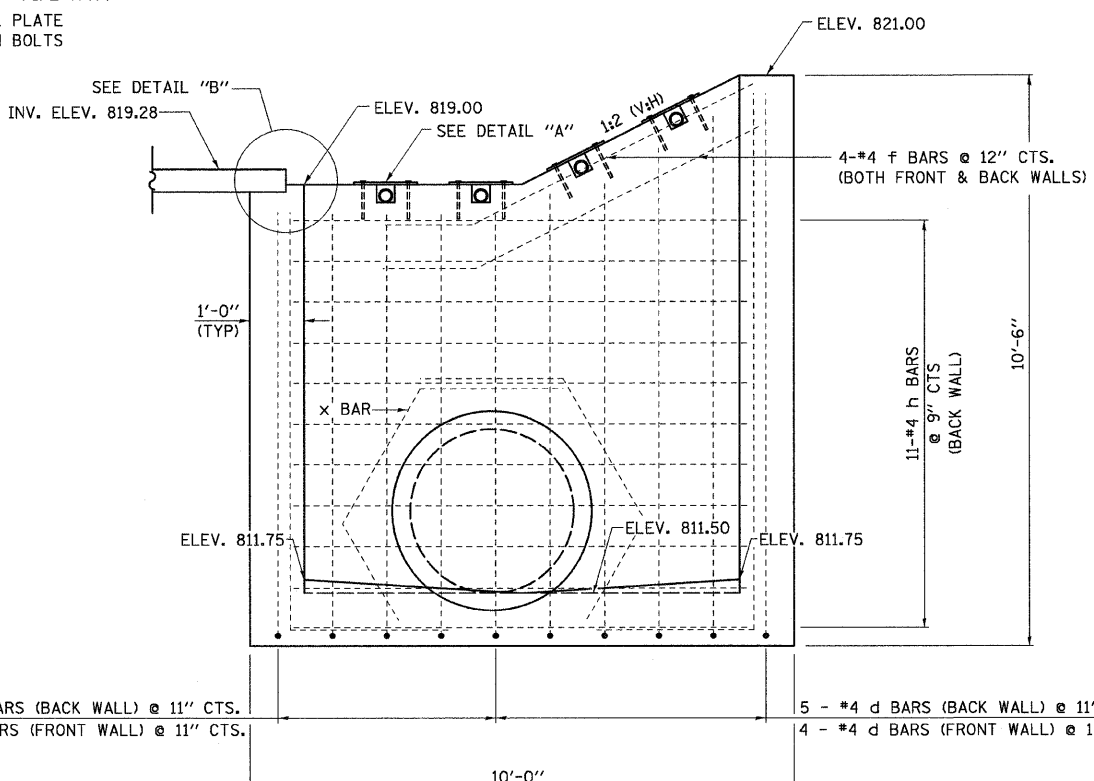
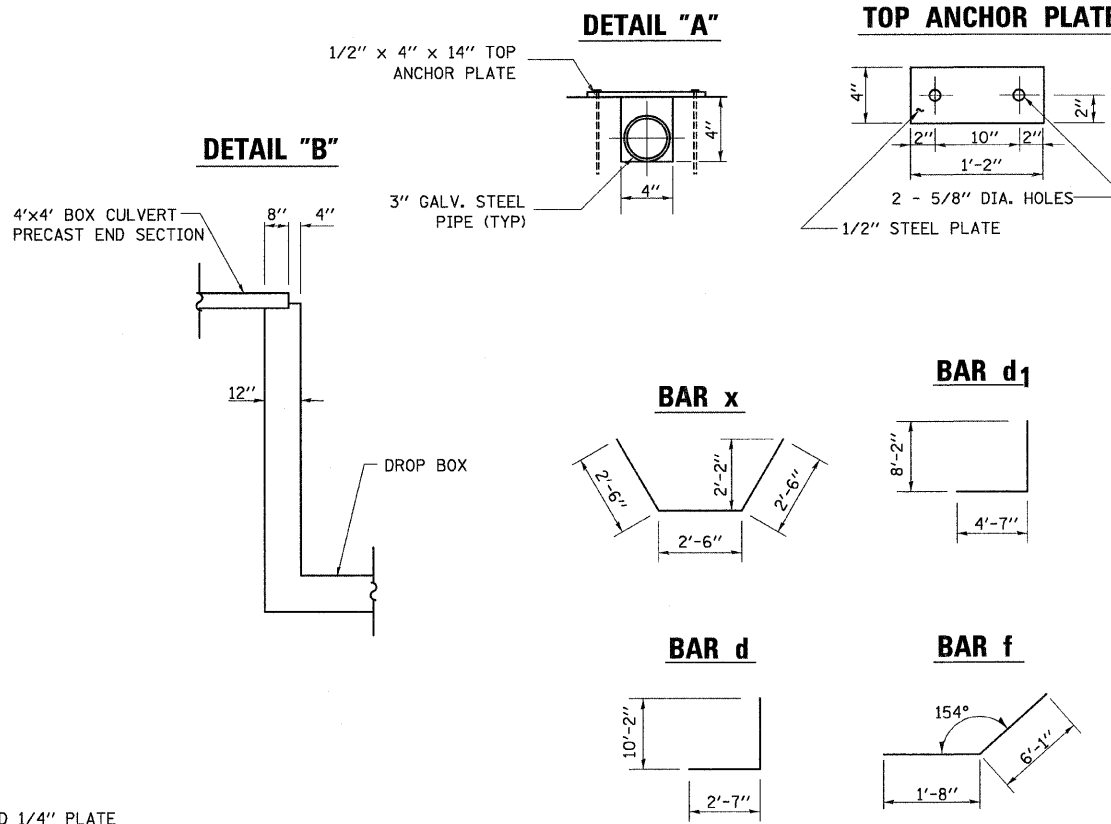
RT STA. 10710 + 42



PLAN



VIEW A-A



SECTION B-B

BILL OF MATERIALS
(FOR REINFORCEMENT)

BAR	SIZE	NO.	LENGTH	WEIGHT (LB)
d	4	16	12'-9"	136.27
d ₁	4	15	12'-9"	127.76
f	4	8	7'-9"	41.42
h	4	18	9'-8"	116.23
h ₁	4	29	5'-8"	109.77
DESCRIPTION	UNIT	QTY		
CONCRETE STRUCTURES	CU YD	11.8		
REINFORCEMENT BARS	LB	540		

BILL OF MATERIALS
(FOR GRATED DROP BOX)

DESCRIPTION	UNIT	QTY.
3" GALVANIZED STEEL PIPE	FOOT	4 @ 6'-0"
3" GALV PIPE CAPS	EACH	8
1/4" GALV. STEEL PLATE (9" NOMINAL)	EACH	4
1/2" x 4" x 14" GALV. STEEL PLATE	EACH	4
EXPANSION BOLTS 1/2"Ø	EACH	8

GENERAL NOTES:

SLOPE FLOW LINE OF THE DROP BOX AT THE SAME RATE AS THE FLOW LINE OF THE BOX CULVERT.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120. CONTRATOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A 706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISION.

SEE PLAN AND PROFILE SHEET 59 OF 335 FOR MORE INFORMATION.

SEE SHEET 159 OF 335 FOR DETAILS OF BREAKER RUN CRUSHED STONE.

THE CONTRACT UNIT PRICE "CU. YD." FOR CONCRETE STRUCTURES SHALL INCLUDE THE GALVANIZED PIPE, CAPS, BOLTS, NUTS, WASHERS, AND STEEL PLATES, AND ALL APPLICABLE WORK ACCORDING TO SECTION 503 OF THE STANDARD SPECIFICATIONS.

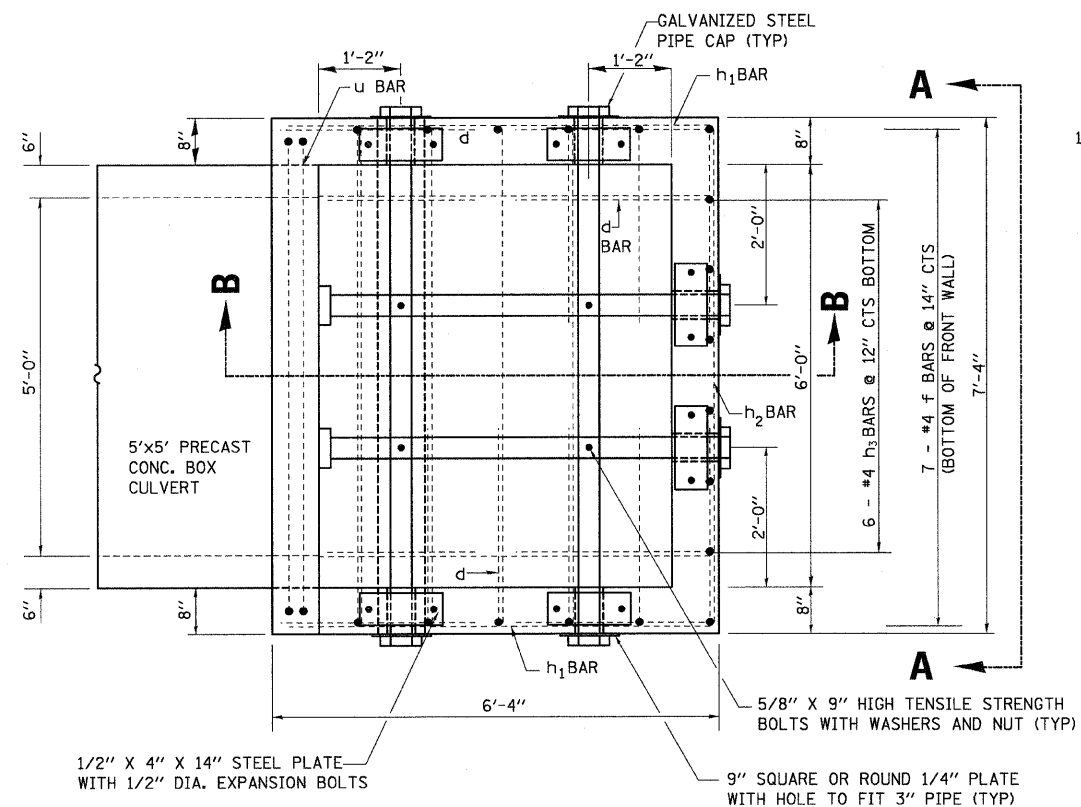
PLOT DATE = 3/2/2009
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WINNEBAGO	335	137
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
*FAP 505 (IL 75)				
**111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1				

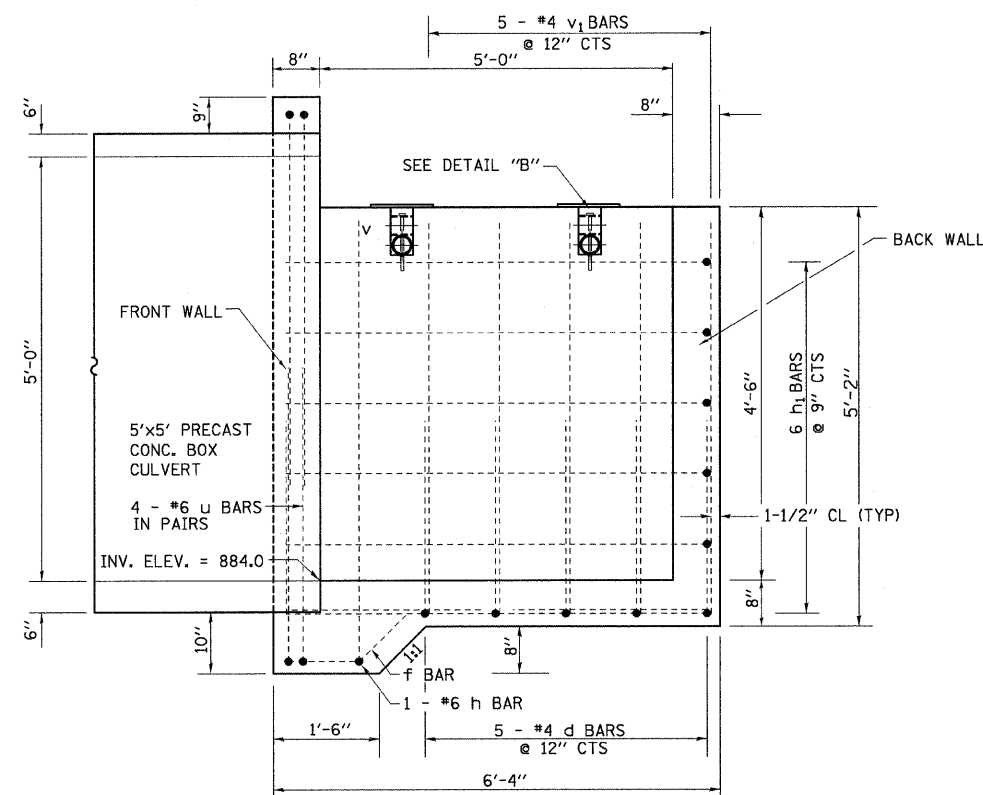
DROP BOX NO. 6

RT STA. 10854 + 01

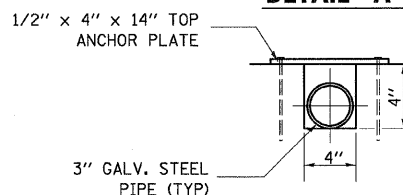
PLAN



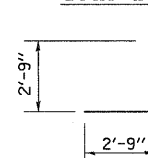
SECTION B-B



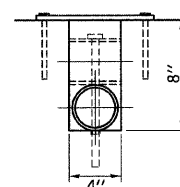
DETAIL "A"



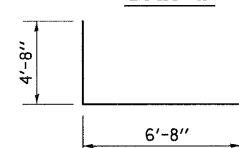
BAR d



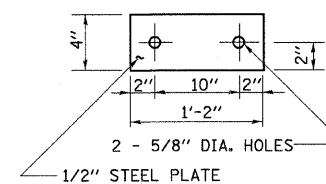
DETAIL "B"



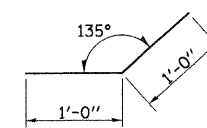
BAR u



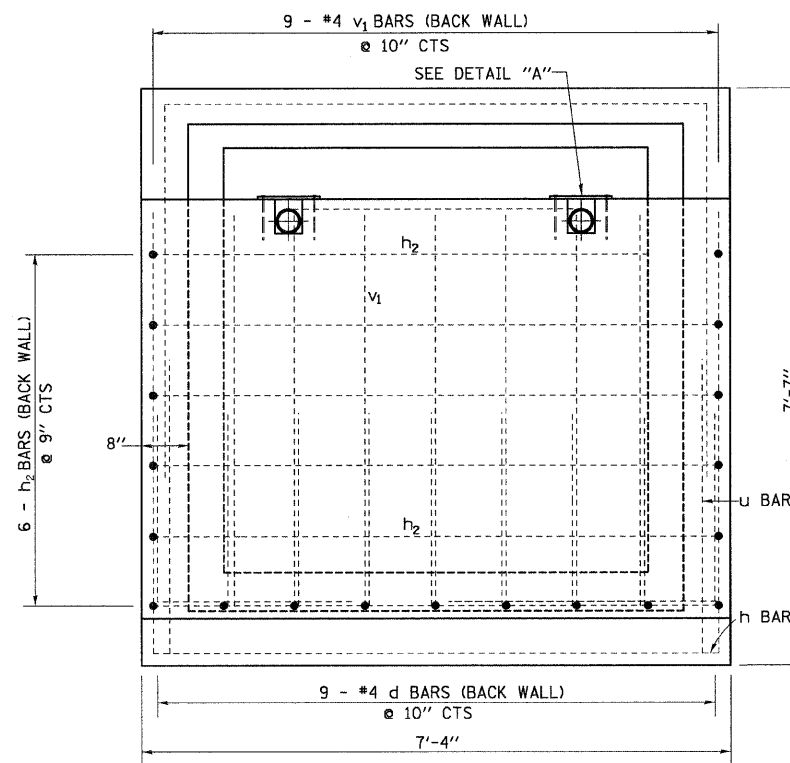
TOP ANCHOR PLATE



BAR f



VIEW A-A



BILL OF MATERIALS (FOR REINFORCEMENT)

BAR	SIZE	NO.	LENGTH	WEIGHT (LB)
d	4	19	5'-6"	69.81
f	4	7	2'-0"	9.35
h	6	1	7'-0"	10.52
h ₁	4	12	6'-0"	48.10
h ₂	4	6	7'-0"	28.06
h ₃	4	6	5'-4"	21.37
u	6	4	16'-0"	96.19
v	4	2	5'-6"	7.35
v ₁	4	19	4'-10"	61.34
DESCRIPTION		UNIT	QTY	
CONCRETE STRUCTURES		CU YD	3.7	
REINFORCEMENT BARS		LB	350	

BILL OF MATERIALS (FOR GRATED DROP BOX)

DESCRIPTION	UNIT	QTY.
3" GALVANIZED STEEL PIPE	FOOT	2 @ 7'-10"
	FOOT	2 @ 5'-8"
3" GALV PIPE CAPS	EACH	8
1/4" GALV. STEEL PLATE (9" NOMINAL)	EACH	6
1/2" x 4" x 14" GALV. STEEL PLATE	EACH	6
5/8" x 9" GALV. STEEL BOLTS	EACH	4
EXPANSION BOLTS 1/2"Ø	EACH	12

GENERAL NOTES:

SLOPE FLOW LINE OF THE DROP BOX AT THE SAME RATE AS THE FLOW LINE OF THE BOX CULVERT.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120. CONTRATOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A 706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISION.

SEE PLAN AND PROFILE SHEET 66 OF 335 FOR MORE INFORMATION.

SEE SHEET 159 OF 335 FOR DETAILS OF BREAKER RUN CRUSHED STONE.

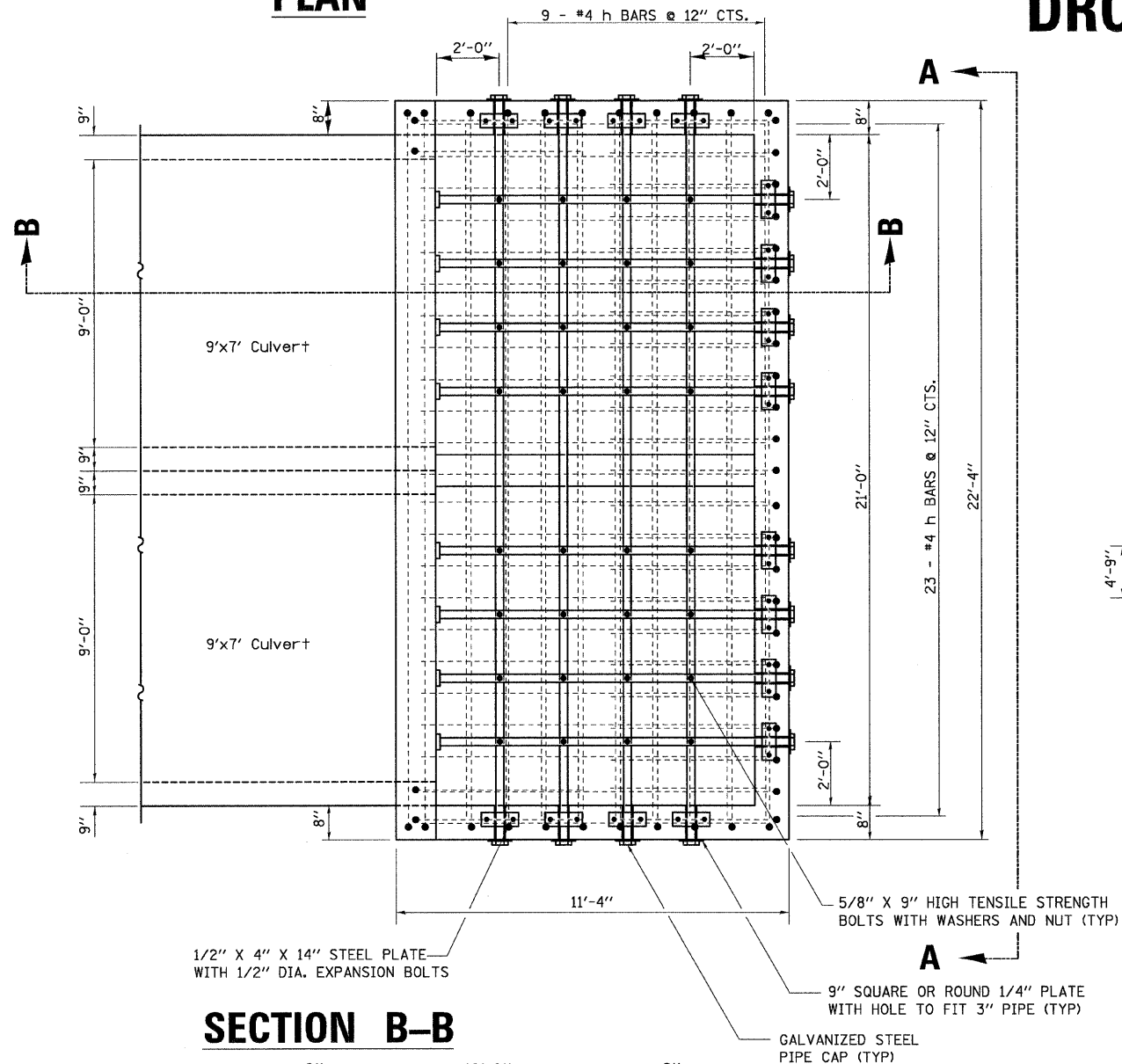
THE CONTRACT UNIT PRICE "CU. YD." FOR CONCRETE STRUCTURES SHALL INCLUDE THE GALVANIZED PIPE, CAPS, BOLTS, NUTS, WASHERS, AND STEEL PLATES, AND ALL APPLICABLE WORK ACCORDING TO SECTION 503 OF THE STANDARD SPECIFICATIONS.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WINNEBAGO	335	138
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				
*FAP 505 (IL 75)				
**111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1				

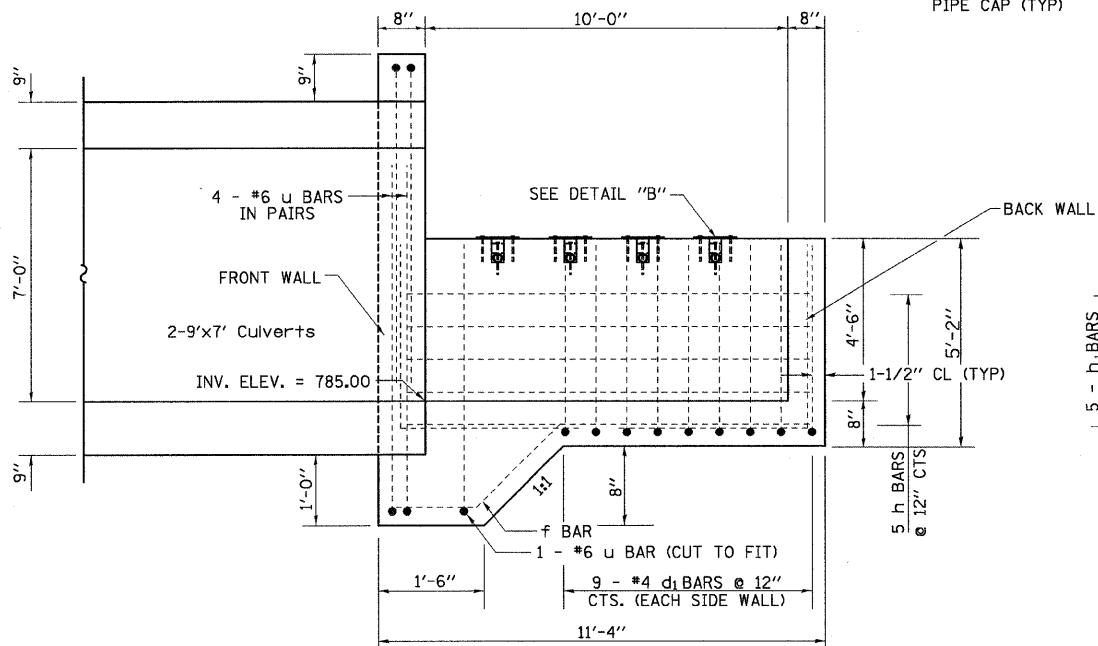
DROP BOX NO. 8

RT STA. 10968 + 79

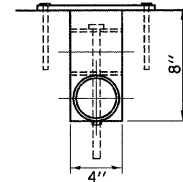
PLAN



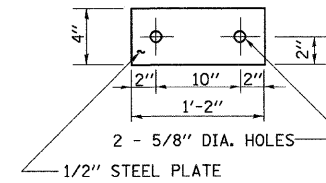
SECTION B-B



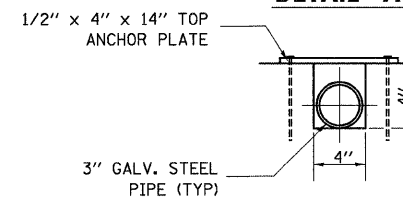
DETAIL "B"



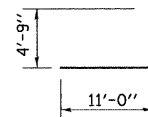
TOP ANCHOR PLATE



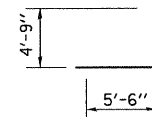
DETAIL "A"



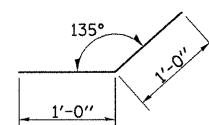
BAR d1



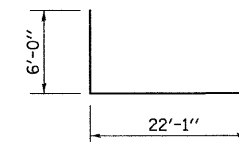
BAR d



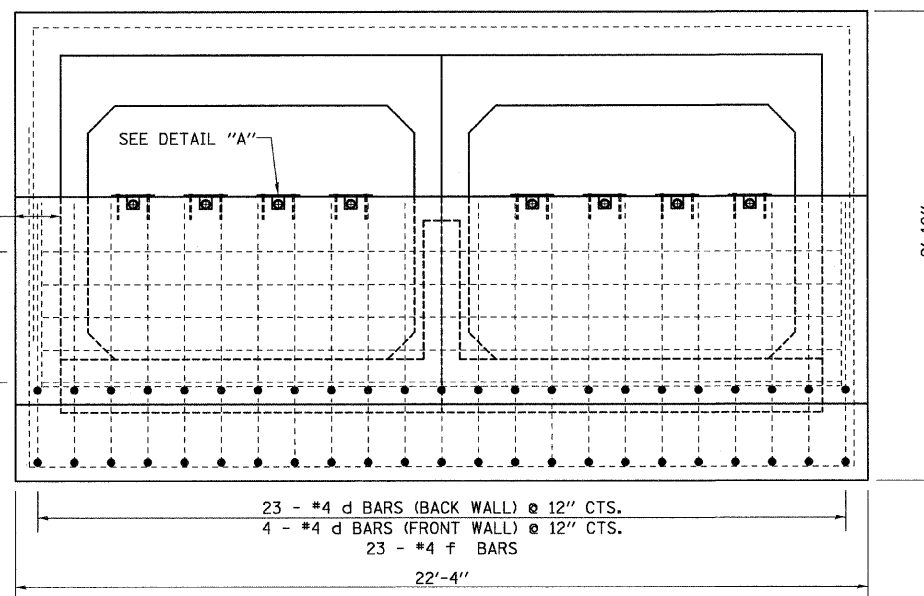
BAR f



BAR u



VIEW A-A



BILL OF MATERIALS (FOR REINFORCEMENT)

BAR	SIZE	NO.	LENGTH	WEIGHT (LB)
d	4	27	10'-3"	184.87
d1	4	18	15'-9"	189.38
f	4	23	2'-0"	30.73
h	6	37	11'-1"	615.95
h1	6	5	21'-1"	158.34
u	6	5	34'-1"	255.97
DESCRIPTION	UNIT	QTY		
CONCRETE STRUCTURES	CU YD	15.3		
REINFORCEMENT BARS	LB	1440		

BILL OF MATERIALS (FOR GRATED DROP BOX)

DESCRIPTION	UNIT	QTY.
3" GALVANIZED STEEL PIPE	FOOT	8 @ 22'-4"
3" GALV PIPE CAPS	EACH	24
1/4" GALV. STEEL PLATE (9" NOMINAL)	EACH	16
1/2" x 4" x 14" GALV. STEEL PLATE	EACH	16
5/8" x 9" GALV. STEEL BOLTS	EACH	32
EXPANSION BOLTS 1/2"Ø	EACH	32

GENERAL NOTES:

SLOPE FLOW LINE OF THE DROP BOX AT THE SAME RATE AS THE FLOW LINE OF THE BOX CULVERT.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120. CONTRATOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A 706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISION.

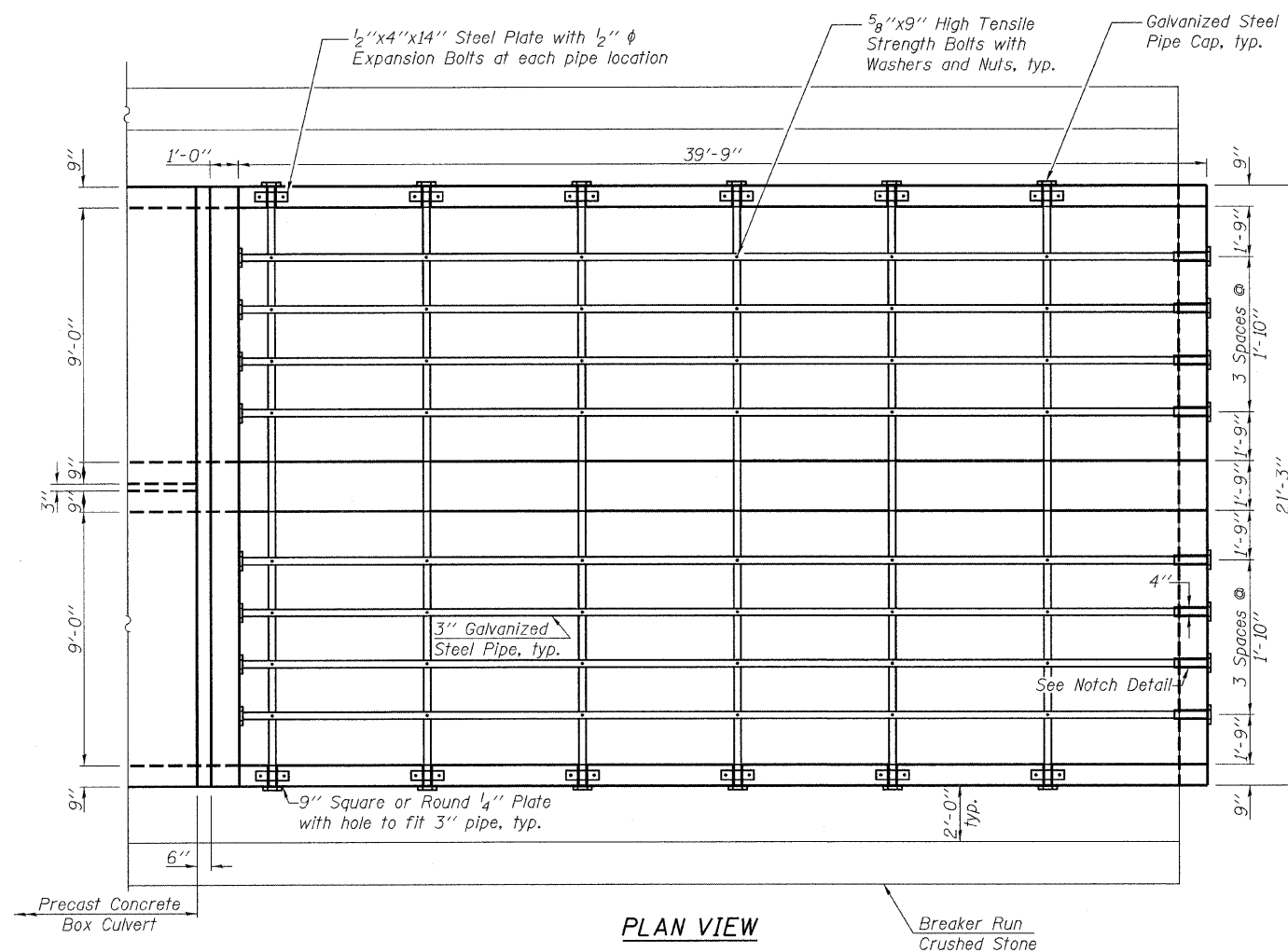
SEE PLAN AND PROFILE SHEET 72 OF 335 FOR MORE INFORMATION.

SEE SHEET 159 OF 335 FOR DETAILS OF BREAKER RUN CRUSHED STONE.

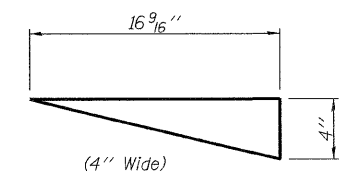
THE CONTRACT UNIT PRICE "CU. YD." FOR CONCRETE STRUCTURES SHALL INCLUDE THE GALVANIZED PIPE, CAPS, BOLTS, NUTS, WASHERS, AND STEEL PLATES, AND ALL APPLICABLE WORK ACCORDING TO SECTION 503 OF THE STANDARD SPECIFICATIONS.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
FAP 505	**	WINNEBAGO	335	139	3 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

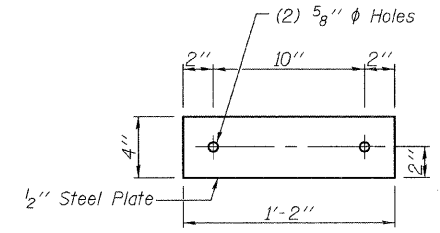
**111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1
Contract # 64970



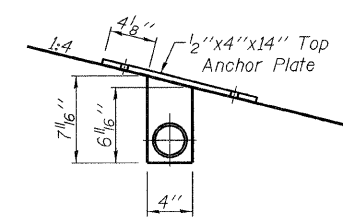
PLAN VIEW



NOTCH DETAIL



TOP ANCHOR PLATE



DETAIL "A"

GENERAL NOTES

Reinforcement bars shall conform to the requirements of A.S.T.M. A 706 Gr 60. See Special Provisions.

The distance from the top of headwall or wingwall to the adjacent ground surface shall be 3 inches (nominal), but in no case greater than 4 inches.

Grating shall include pipes, plates, expansion bolts, and all other hardware as shown and shall be included with the contract unit price per Cu. Yd. for Concrete Structures.

Bolts, Nuts, and Washers shall be in accordance with Article 1006.08 of the Standard Specifications and shall be galvanized.

Steel Plates shall conform to AASHTO M-183 and shall be galvanized conforming to AASHTO M-111.

Steel Pipes shall conform to A.S.T.M. A-53 (Type E or S) Grade B, Schedule 40, and shall be galvanized conforming to A.S.T.M. A-120. Contractor shall field verify pipe length.

See Plan and Profile Sheet 72 of 335 for more information.

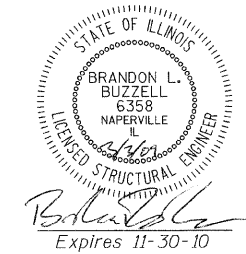
See Sheet 159 of 335 for details of Breaker Run Crushed Stone.

If the Contractor elects to use precast construction, the Precaster shall provide complete details in the shop drawings for review by the Engineer.

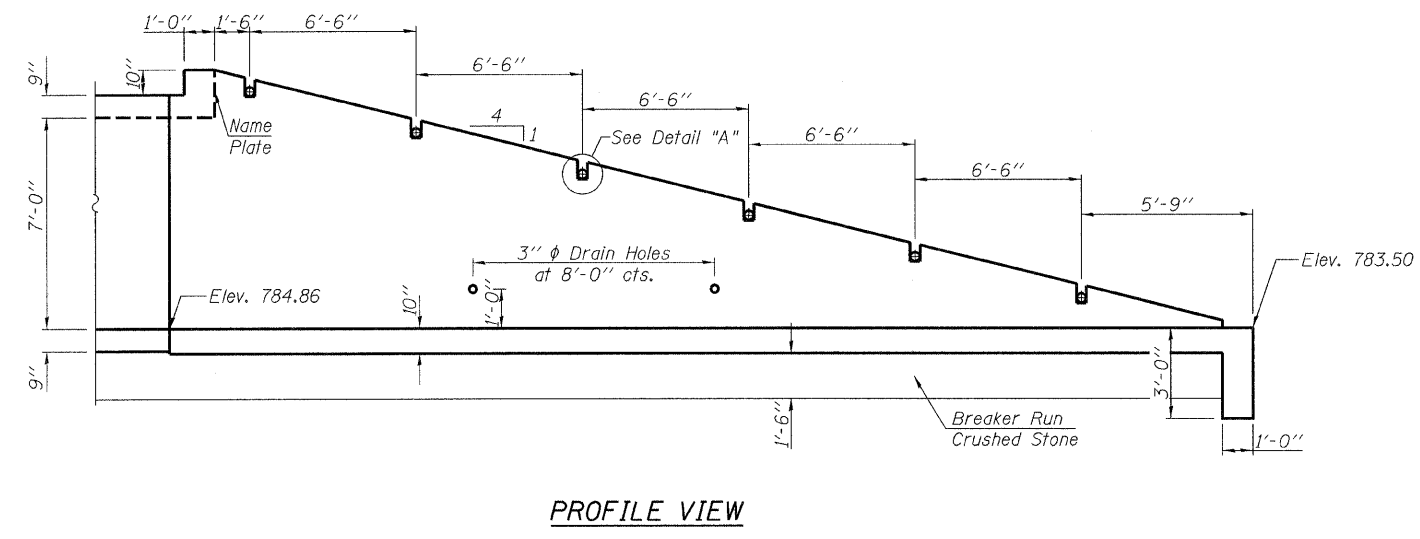
STATION 10968+79
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 505 SEC 109RS-2, Ya-15d-RS-1
LOADING HS20
STR. NO. 101-2048

NAME PLATE

See Std. 515001
Located on the NE Headwall.
Locate to miss pipe grating.



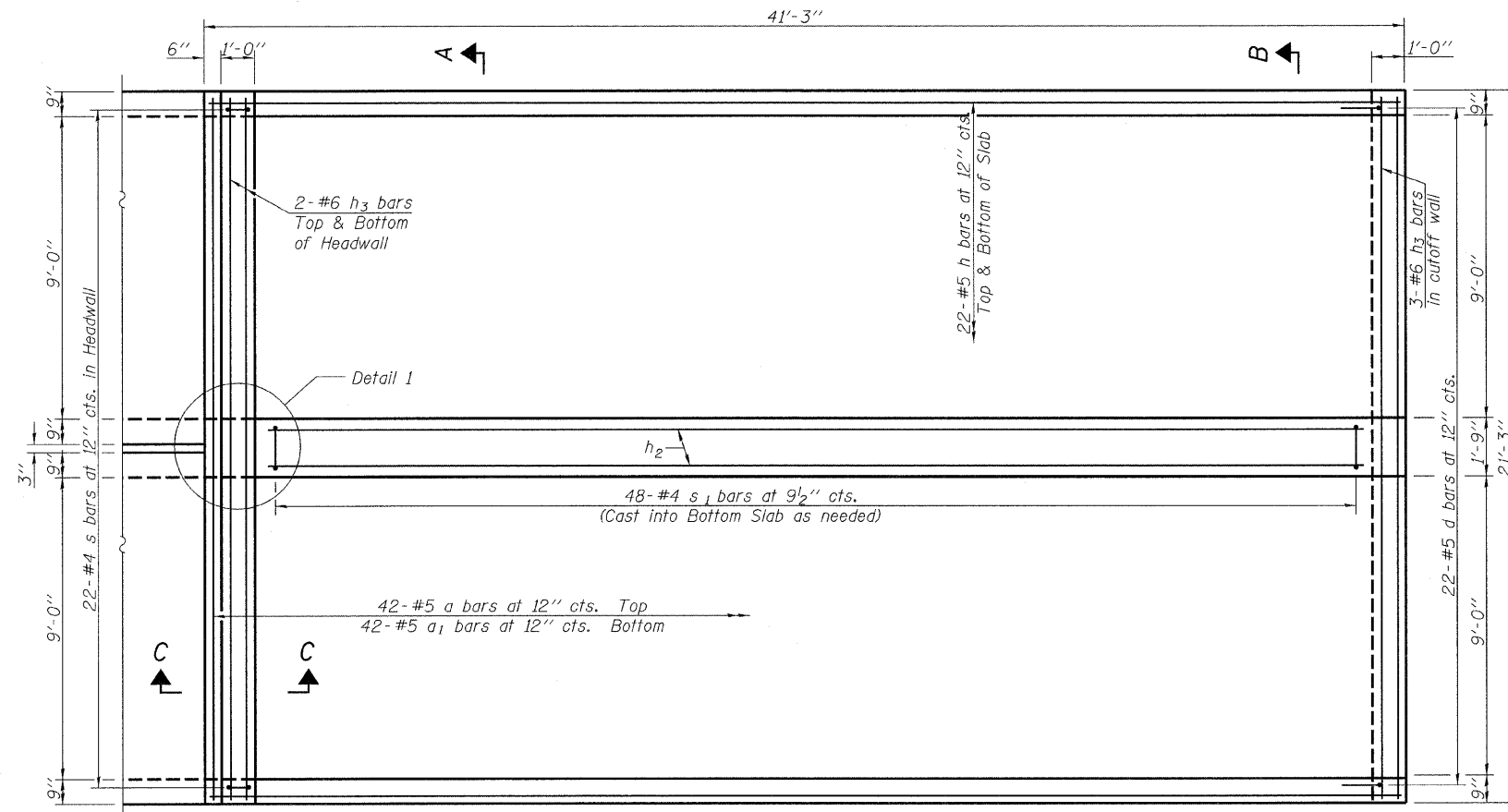
<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	<p>ILLINOIS DEPARTMENT OF TRANSPORTATION GRATED CULVERT EXTENSION NO. 8 IL-75 OVER TRIBUTARY TO PECATONICA RIVER FAP RTE 505 - SECTION 111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1 WINNEBAGO COUNTY STATION 10968+79 STRUCTURE NO. 101-2048</p>
	<p>DATE: 3/03/2009</p> <p>DRAWN BY JMT CHECKED BY WJV</p>



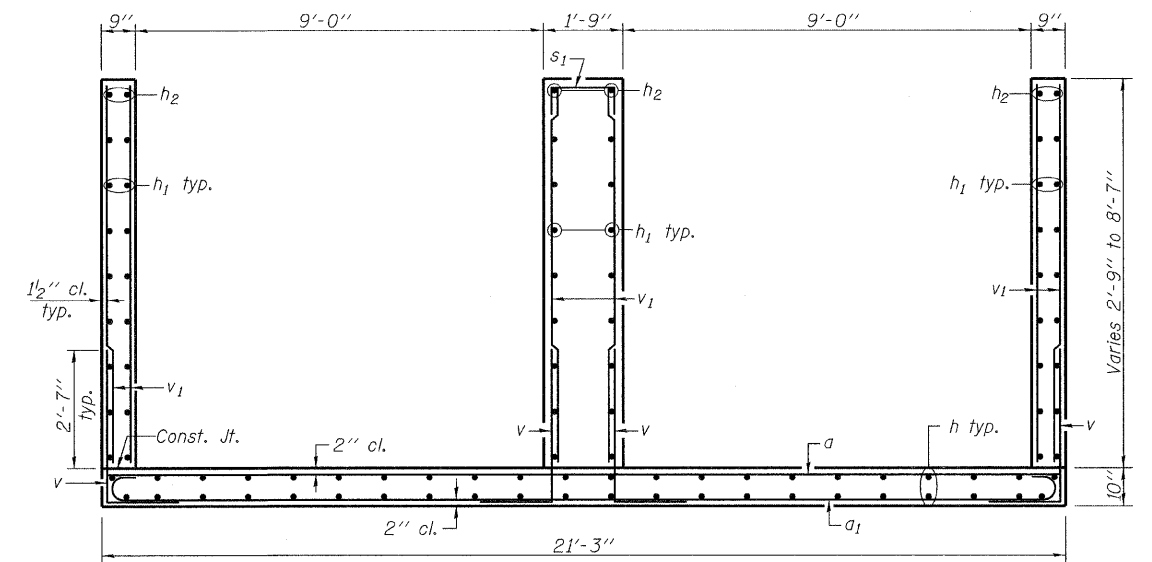
PROFILE VIEW

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
FAP 505	**	WINNEBAGO	335	140	3 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

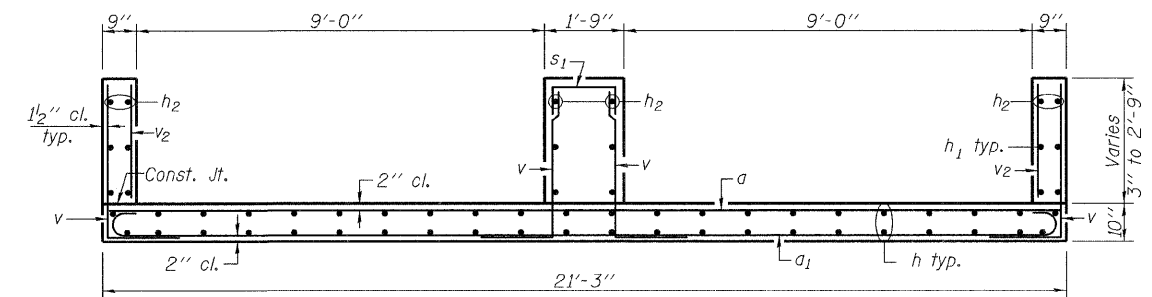
**111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1
Contract # 64970



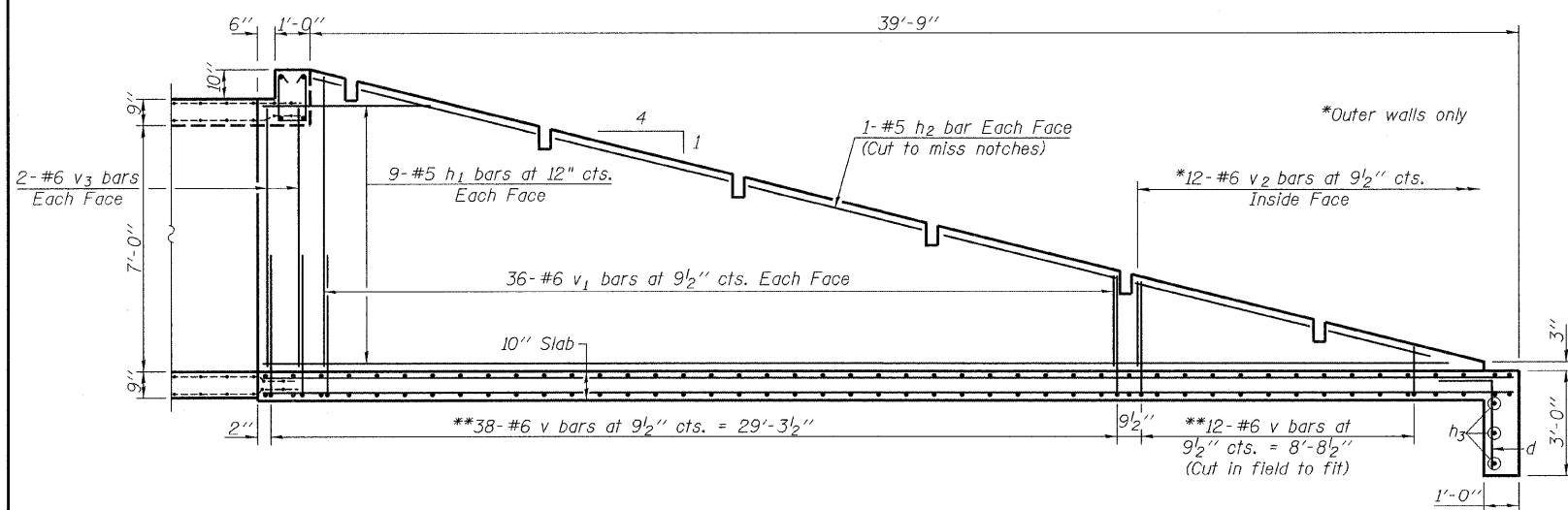
PLAN



SECTION A-A



SECTION B-B



LONGITUDINAL SECTION

NOTES

See Sheet 1 of 3 for General Notes.
See Sheet 3 of 3 for Section C-C and Detail 1.

**Outside face of outer walls,
both faces of center wall

rjngroup

Excellence through Ownership

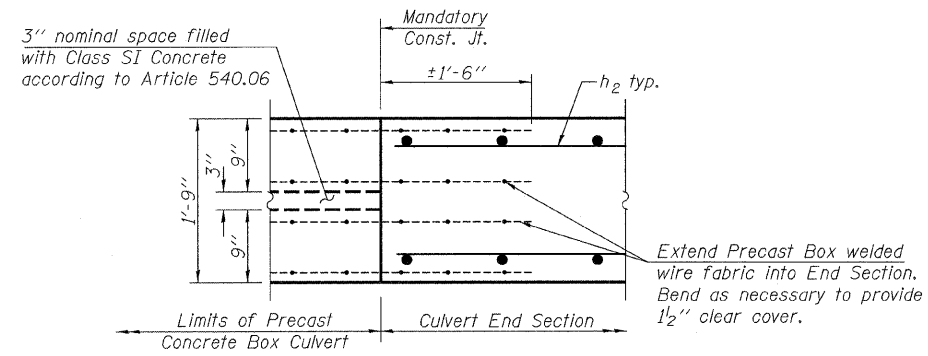
200 West Front Street
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION
GRATED CULVERT EXTENSION NO. 8
IL-75 OVER TRIBUTARY TO PECATONICA RIVER
FAP RTE 505 - SECTION
111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1
WINNEBAGO COUNTY
STATION 10968+79
STRUCTURE NO. 101-2048

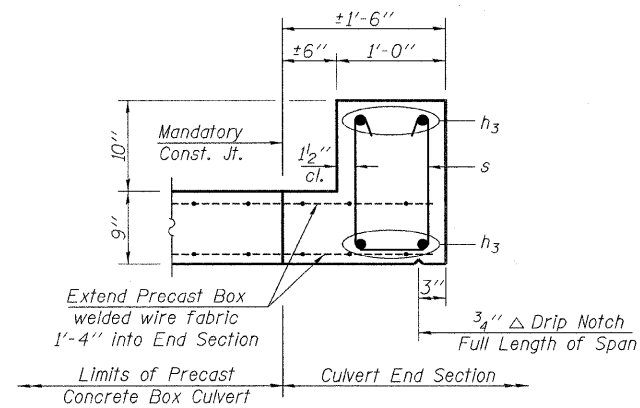
DATE: 3/03/2009

DRAWN BY JMT
CHECKED BY WJV

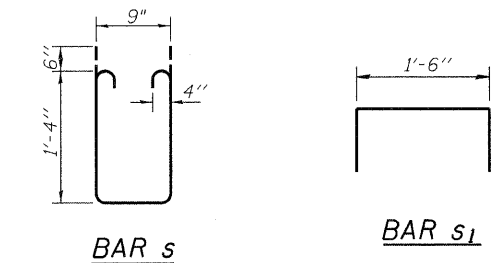
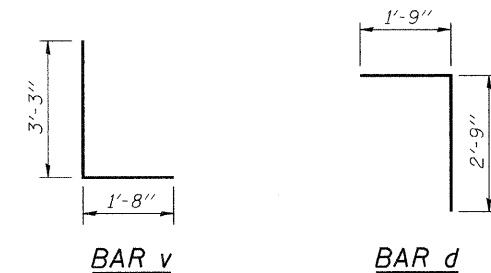
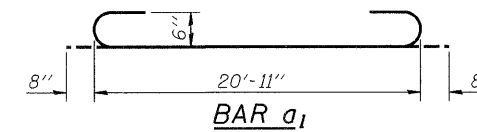
**111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1
Contract # 64970



DETAIL 1

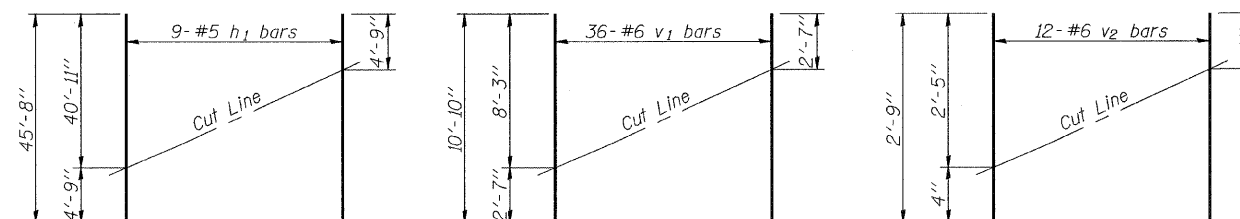


SECTION C-C



**END SECTION
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	42	#5	20'-11"	—
a1	42	#5	22'-3"	—
d	22	#5	4'-6"	┌
h	44	#5	40'-11"	—
h1	27	#5	45'-8"	—
h2	6	#5	39'-4"	—
h3	7	#6	20'-11"	—
s	22	#4	4'-5"	□
s1	48	#4	3'-0"	┌
v	200	#6	4'-11"	L
v1	108	#6	10'-10"	—
v2	12	#6	2'-9"	—
v3	12	#6	7'-5"	—
Reinforcement Bars		Pound	9,250	
Concrete Structures		Cu. Yd.	52.2	



FIELD CUTTING DIAGRAMS

Order bars full length. Cut as shown and use remainder of bars in opposite face (h1, v1) or opposite wingwall (v2).

NOTE

See Sheet 1 of 3 for General Notes.

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Excellence through Ownership

200 West Front Street
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION
GRATED CULVERT EXTENSION NO. 8
IL-75 OVER TRIBUTARY TO PECATONICA RIVER
FAP RTE 505 - SECTION
111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1
WINNEBAGO COUNTY
STATION 10968+79
STRUCTURE NO. 101-2048

DATE: 3/03/2009

DRAWN BY JMT
CHECKED BY WJV

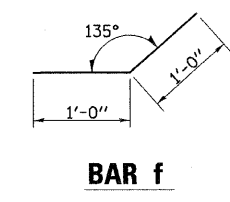
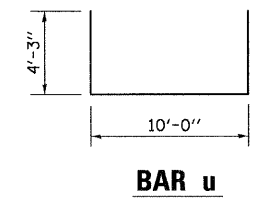
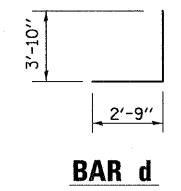
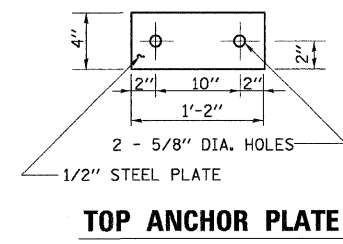
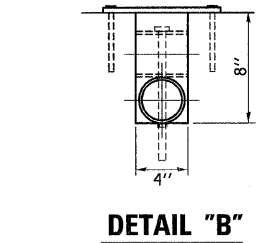
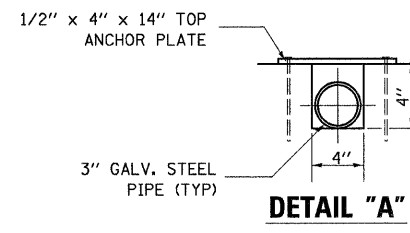
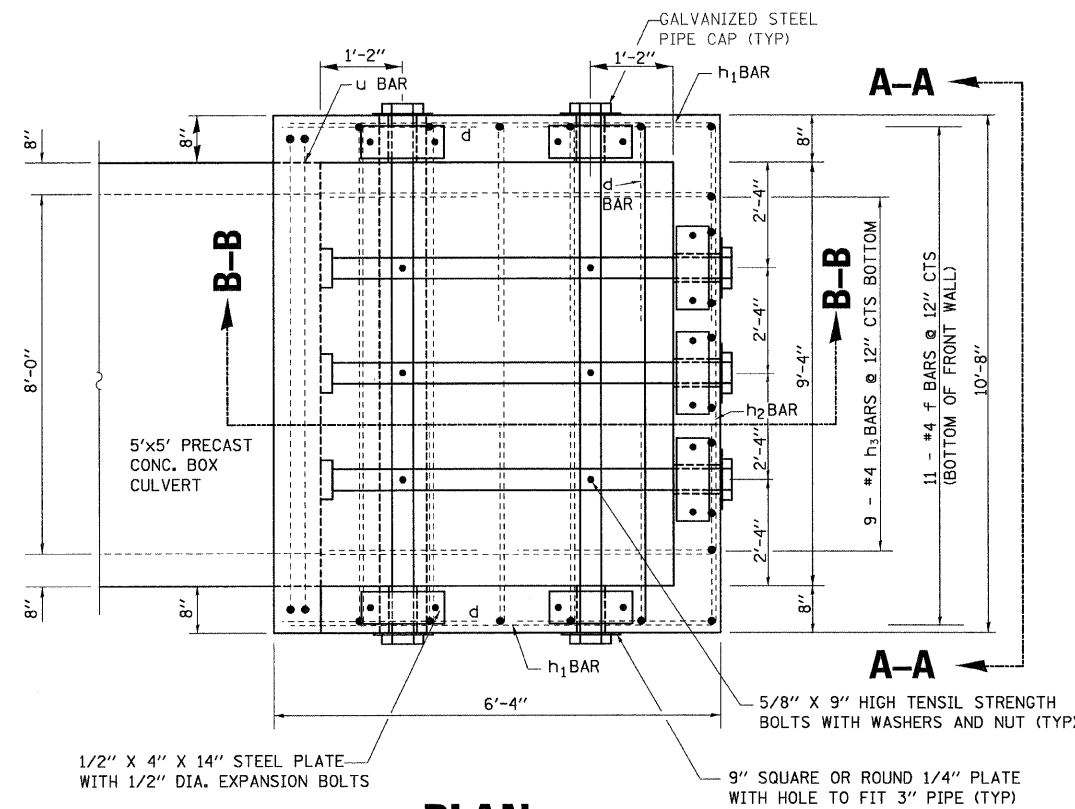
DROP BOX NO. 10

RT STA. 10998 + 25

CONTRACT NO. 64970

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WINNEBAGO	335	142

STA. TO STA.
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
 *FAP 505 (IL 75)
 **111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1



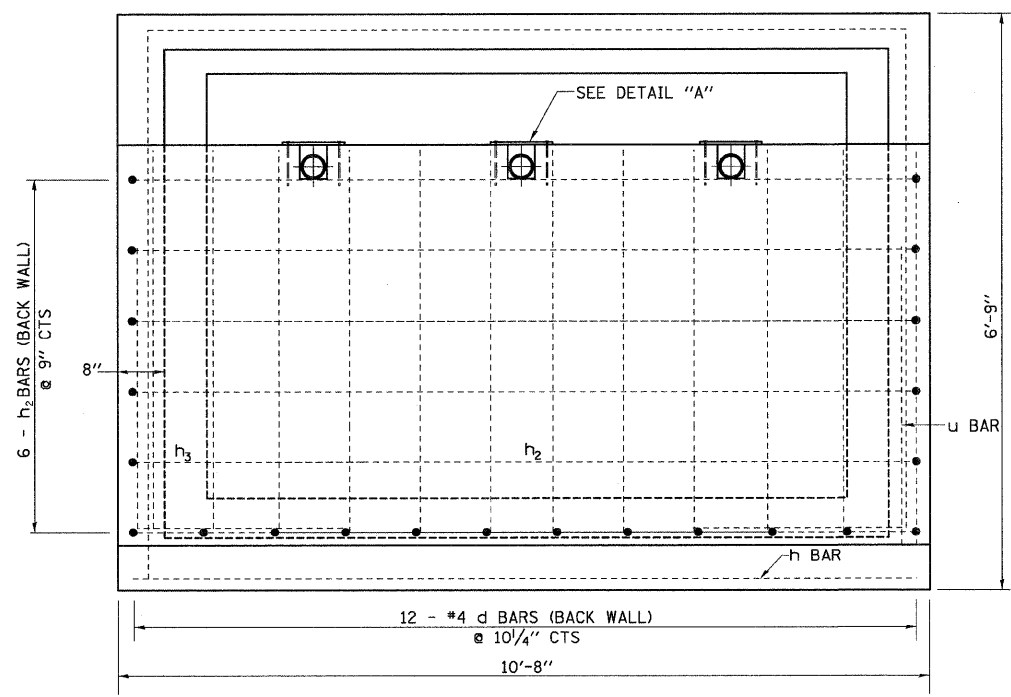
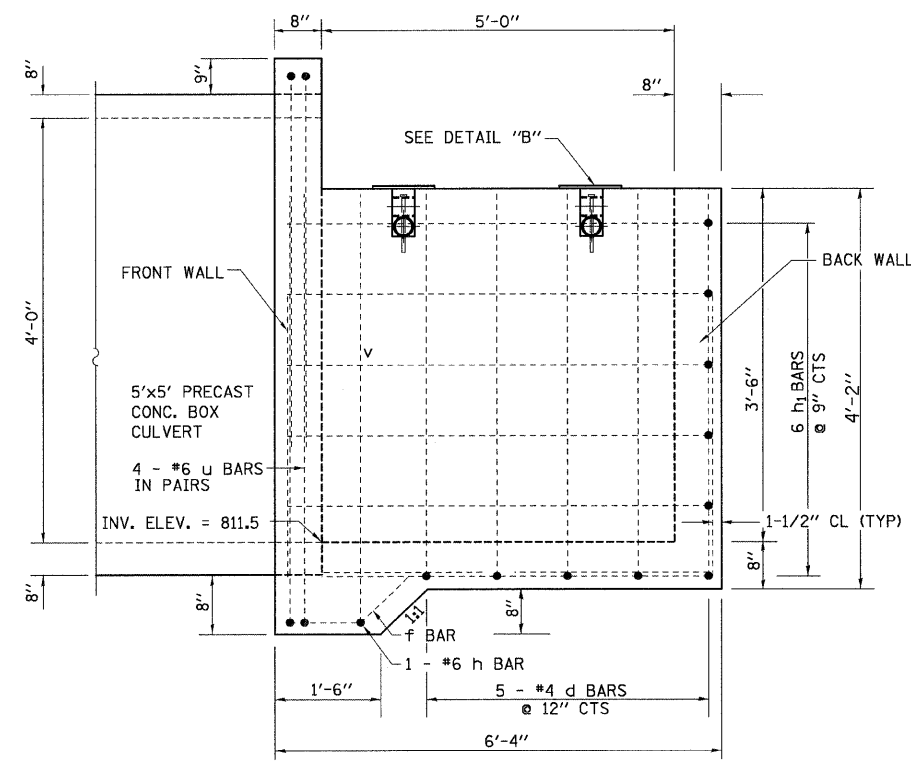
BILL OF MATERIALS (FOR REINFORCEMENT)

BAR	SIZE	NO.	LENGTH	WEIGHT (LB)
d	4	22	6'-7"	96.57
f	4	11	2'-0"	14.70
h	6	1	10'-4"	15.53
h ₁	4	12	6'-0"	48.10
h ₂	4	6	10'-4"	41.42
h ₃	4	9	5'-4"	32.06
u	6	4	18'-6"	111.22
v	4	2	4'-6"	6.01

DESCRIPTION	UNIT	QTY
CONCRETE STRUCTURE	CU YD	4.2
REINFORCEMENT BARS	LB	360

BILL OF MATERIALS (FOR GRATED DROP BOX)

DESCRIPTION	UNIT	QTY.
3" GALVANIZED STEEL PIPE	FOOT	2 @ 11'-2"
	FOOT	3 @ 5'-8"
3" GALV PIPE CAPS	EACH	10
1/4" GALV. STEEL PLATE (9" NOMINAL)	EACH	7
1/2" x 4" x 14" GALV. STEEL PLATE	EACH	7
5/8" x 9" GALV. STEEL BOLTS	EACH	6
EXPANSION BOLTS 1/2"Ø	EACH	14



GENERAL NOTES:

SLOPE FLOW LINE OF THE DROP BOX AT THE SAME RATE AS THE FLOW LINE OF THE BOX CULVERT.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120. CONTRATOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A 706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISION.

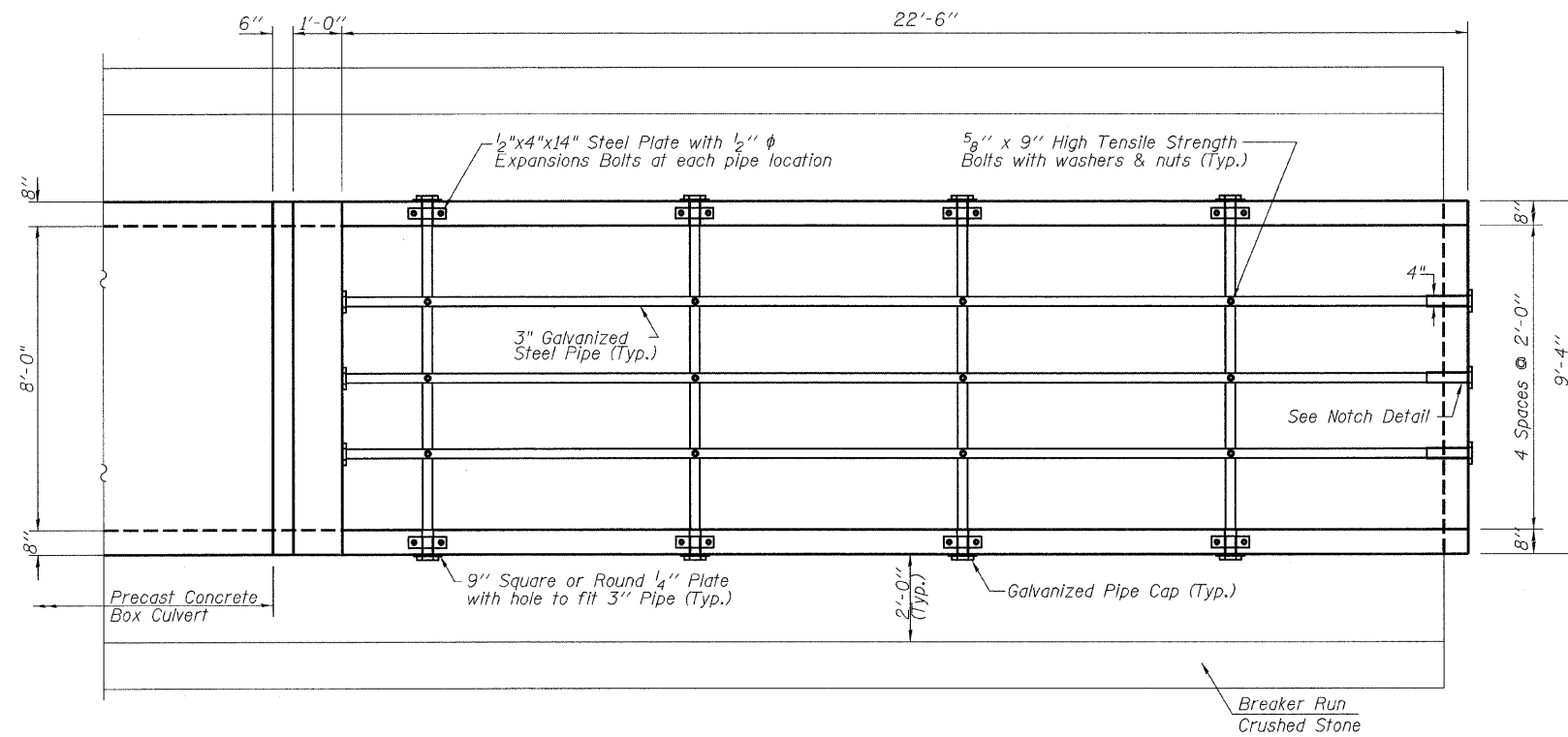
SEE PLAN AND PROFILE SHEET 74 OF 335 FOR MORE INFORMATION.

SEE SHEET 159 OF 335 FOR DETAILS OF BREAKER RUN CRUSHED STONE.

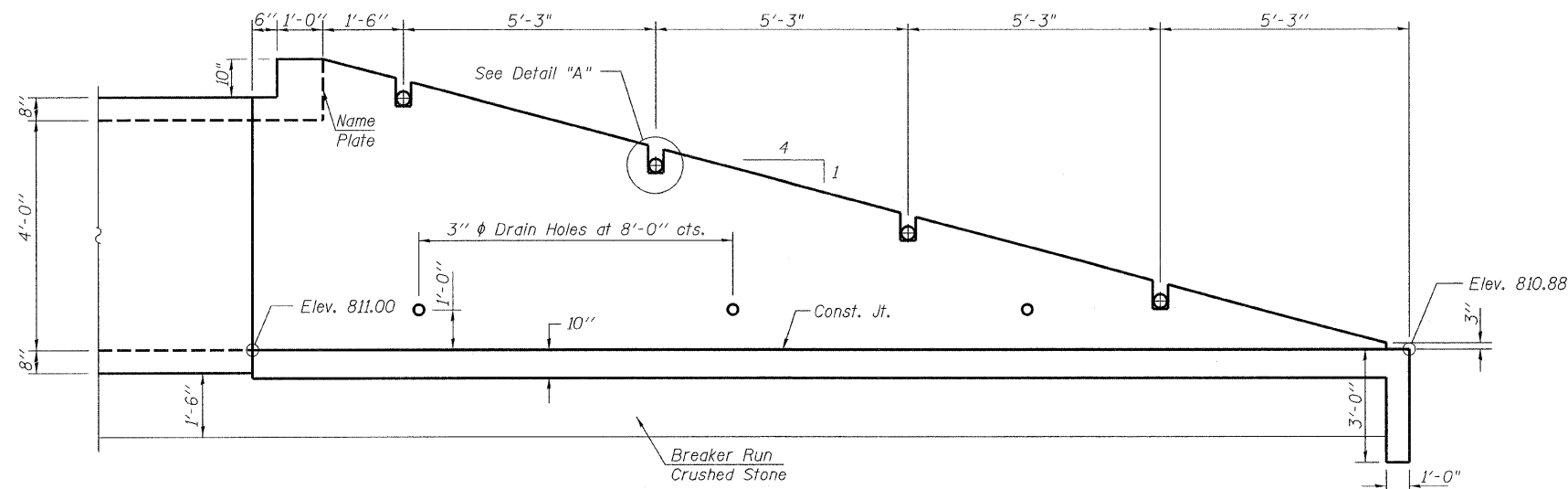
THE CONTRACT UNIT PRICE "CU. YD." FOR CONCRETE STRUCTURES SHALL INCLUDE THE GALVANIZED PIPE, CAPS, BOLTS, NUTS, WASHERS, AND STEEL PLATES, AND ALL APPLICABLE WORK ACCORDING TO SECTION 503 OF THE STANDARD SPECIFICATIONS.

PLOT DATE = 3/2/2009
 FILE NAME = #FILEL*
 USER NAME = #USER*

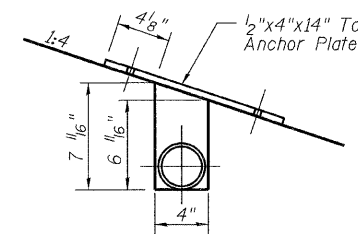
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
FAP 505	**	WINNEBAGO	335	143	2 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			



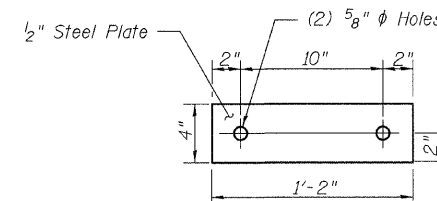
PLAN VIEW



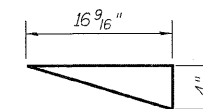
PROFILE VIEW



DETAIL "A"



TOP ANCHOR PLATE



NOTCH DETAIL
(4" Wide)

STATION 10998+25
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.P. RT. 505 SEC 109RS-2, Ya-15d-RS-1
 LOADING HS20
 STR. NO. 101-1319

NAME PLATE

See Std. 515001
 Located on the NE Headwall.
 Locate to miss pipe grating.

GENERAL NOTES

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

The distance from the top of headwall or wingwall to the adjacent ground surface shall be 3 inches (nominal), but in no case greater than 4 inches.

Grating shall include pipes, plates, expansion bolts, and all other hardware as shown and shall be included with the contract unit price per Cu. Yd. for Concrete Structures.

Bolts, Nuts, and Washers shall be in accordance with Article 1006.08 of the Standard Specifications and shall be galvanized.

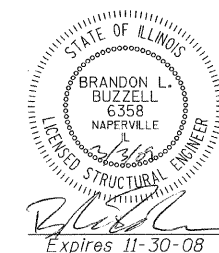
Steel Plates shall conform to AASHTO M-183 and shall be galvanized conforming to AASHTO M-111.

Steel Pipes shall conform to A.S.T.M. A-53 (Type E or S) Grade B, Schedule 40, and shall be galvanized conforming to A.S.T.M. A-120. Contractor shall field verify pipe length.

See Plan and Profile Sheet 74 of 335 for more information.

See Sheet 159 of 335 for details of Breaker Run Crushed Stone.

If the Contractor elects to use precast construction, the Precaster shall provide complete details in the shop drawings for review by the Engineer.



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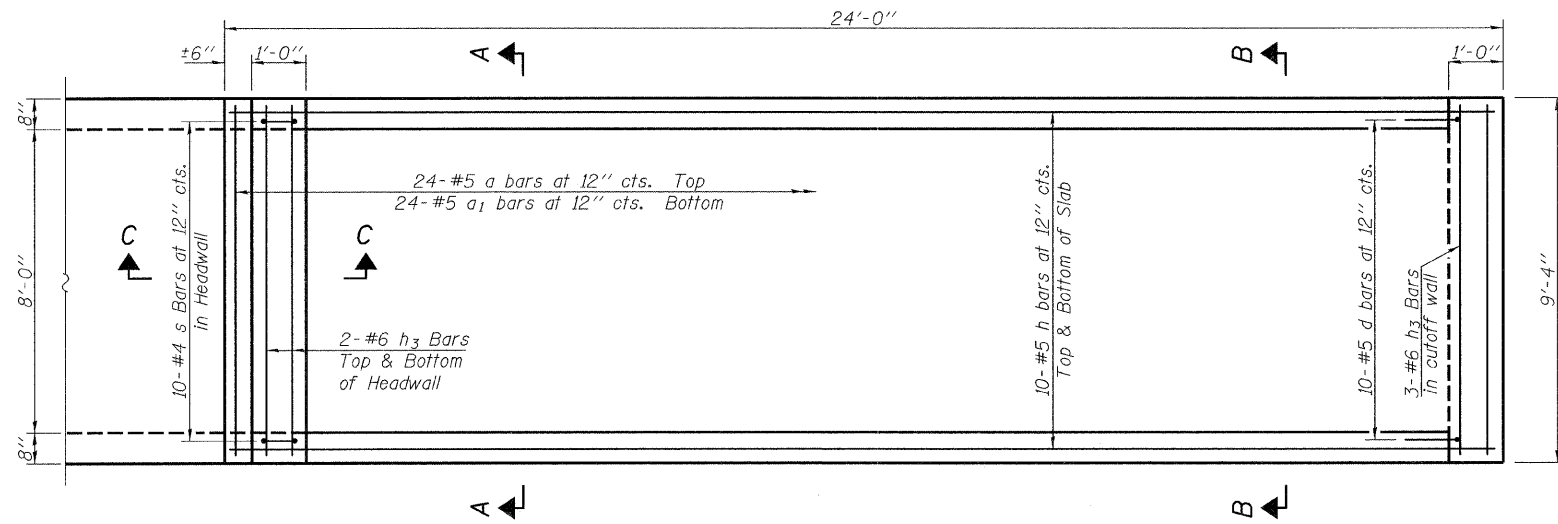
200 West Front Street
 Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

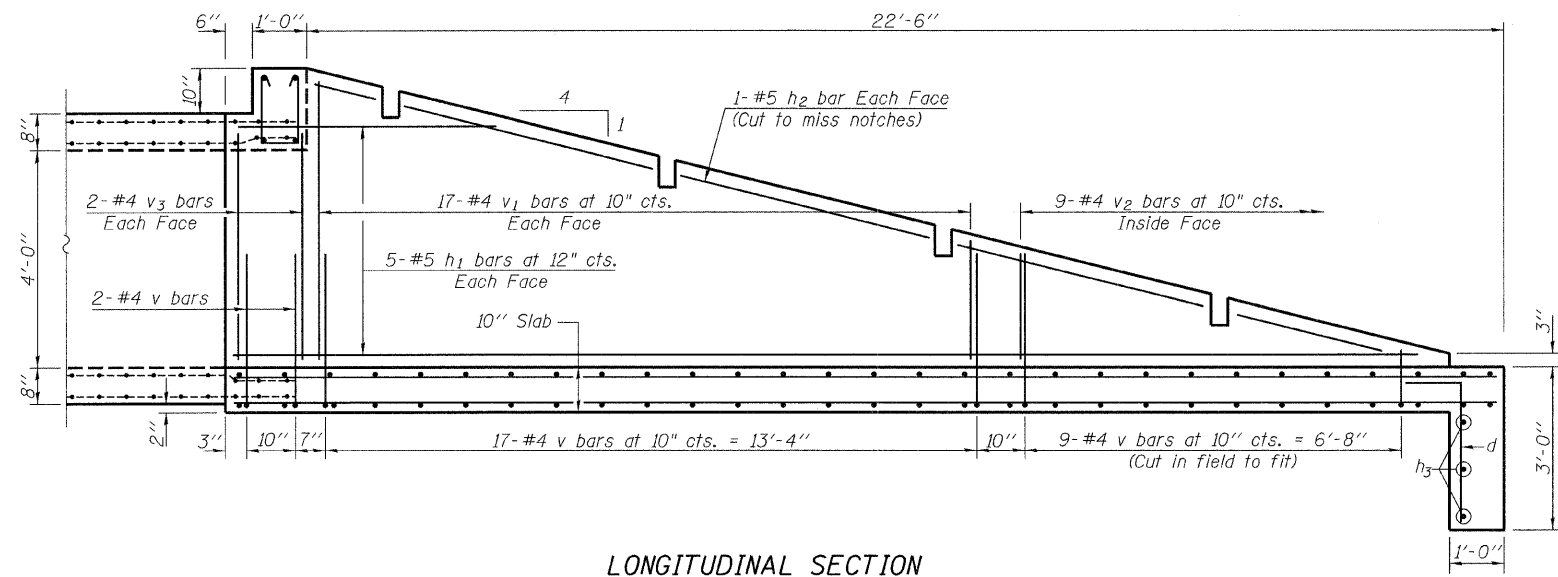
GRATED CULVERT EXTENSION NO. 10
 IL-75 OVER TRIBUTARY TO PECATONICA RIVER
 FAP RTE 505 - SECTION
 *111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1
 WINNEBAGO COUNTY
 STATION 10998+25

DATE: 3/03/2009

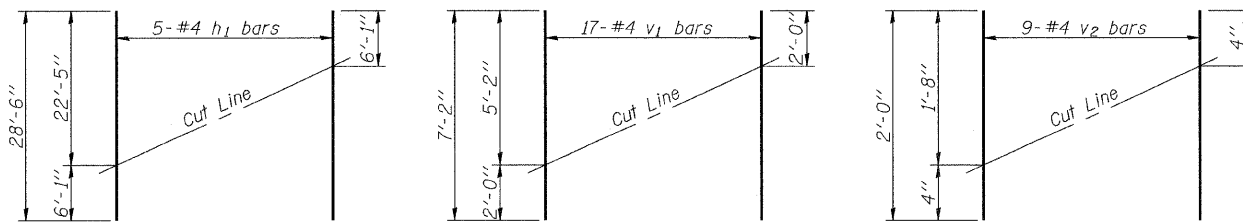
DRAWN BY BLB
 CHECKED BY WJV



PLAN



LONGITUDINAL SECTION

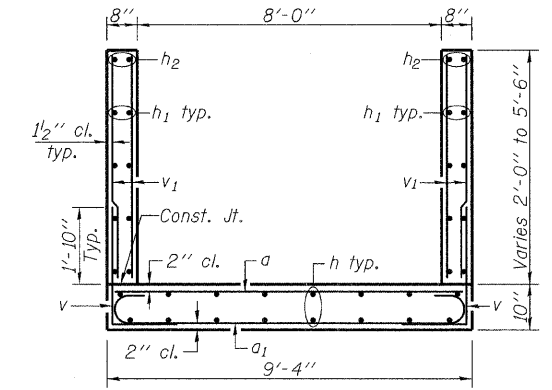


FIELD CUTTING DIAGRAMS

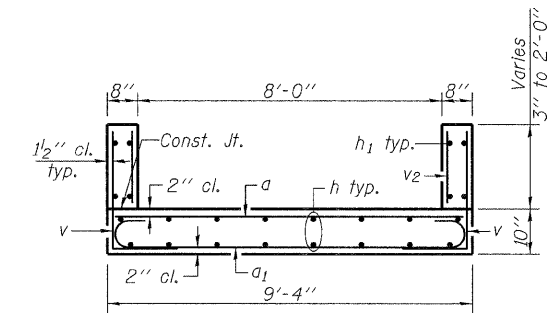
Order bars full length. Cut as shown and use remainder of bars in opposite face (v_1 , h_1) or opposite wingwall (v_2).

NOTE

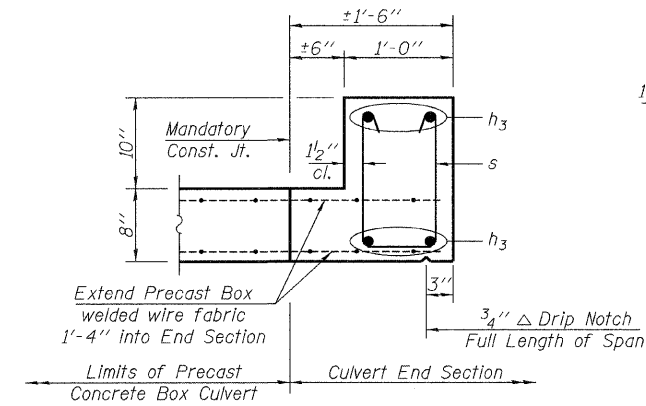
See Sheet 1 of 2 for General Notes.



SECTION A-A



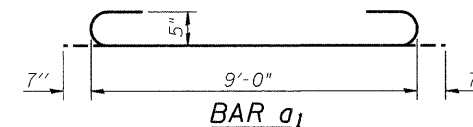
SECTION B-B



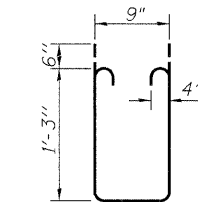
SECTION C-C

END SECTION
BILL OF MATERIAL

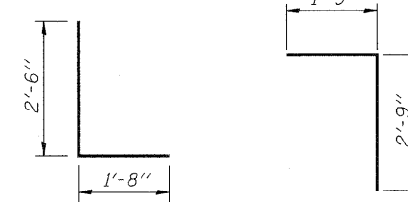
Bar	No.	Size	Length	Shape
a	24	#5	9'-0"	—
a1	24	#5	10'-2"	—
d	10	#5	4'-6"	7
h	20	#5	23'-8"	—
h1	10	#5	28'-6"	—
h2	4	#5	21'-9"	—
h3	7	#6	9'-0"	—
s	10	#5	4'-3"	U
v	56	#4	4'-2"	L
v1	34	#4	7'-2"	—
v2	9	#4	2'-0"	—
v3	8	#4	4'-3"	—
Reinforcement Bars			Pound	1,910
Concrete Structures			Cu. Yd.	11.6



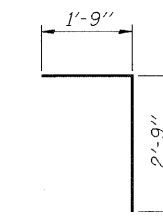
BAR a1



BAR s



BAR v



BAR d

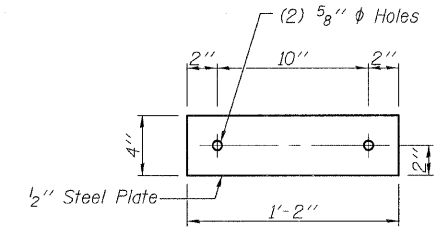
rjngroup
Excellence through Ownership
200 West Front Street
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION
GRATED CULVERT EXTENSION NO. 10
IL-75 OVER TRIBUTARY TO PECATONICA RIVER
FAP RTE 505 - SECTION
*111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1
WINNEBAGO COUNTY
STATION 10998+25

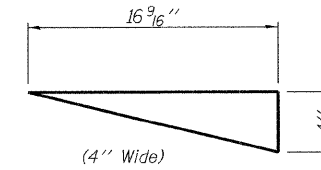
DATE: 3/03/2009
DRAWN BY: BLB
CHECKED BY: WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
FAP 505	**	WINNEBAGO	335	145	3 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

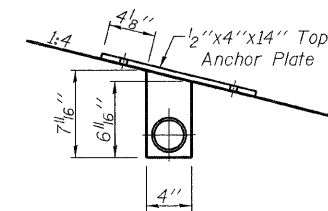
*111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1
Contract # 64970



TOP ANCHOR PLATE



NOTCH DETAIL

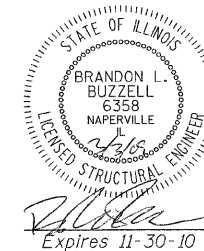


DETAIL "A"

STATION 11025+71
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 505 SEC 109RS-2, Ya-15d-RS-1
LOADING HS20
STR. NO. 101-2049

NAME PLATE

See Std. 515001
Located on the SE Headwall.
Locate to miss pipe grating.



GENERAL NOTES

Reinforcement bars shall conform to the requirements of A.S.T.M. A 706 Gr 60. See Special Provisions.

The distance from the top of headwall or wingwall to the adjacent ground surface shall be 3 inches (nominal), but in no case greater than 4 inches.

Grating shall include pipes, plates, expansion bolts, and all other hardware as shown and shall be included with the contract unit price per Cu. Yd. for Concrete Structures.

Bolts, Nuts, and Washers shall be in accordance with Article 1006.08 of the Standard Specifications and shall be galvanized.

Steel Plates shall conform to AASHTO M-183 and shall be galvanized conforming to AASHTO M-111.

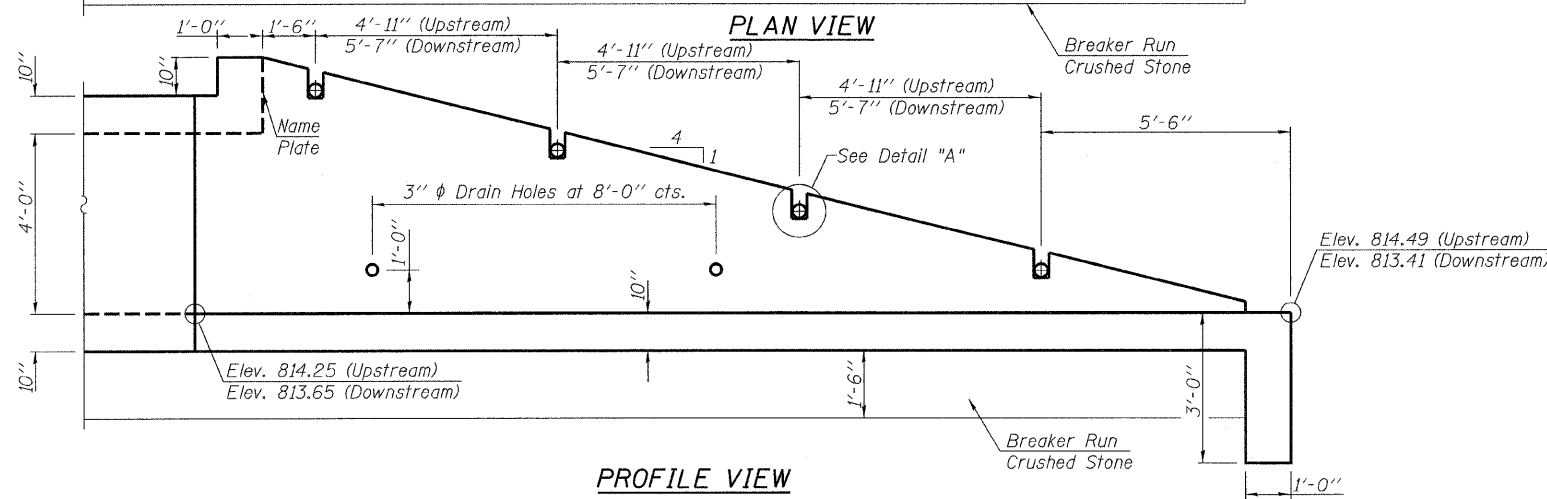
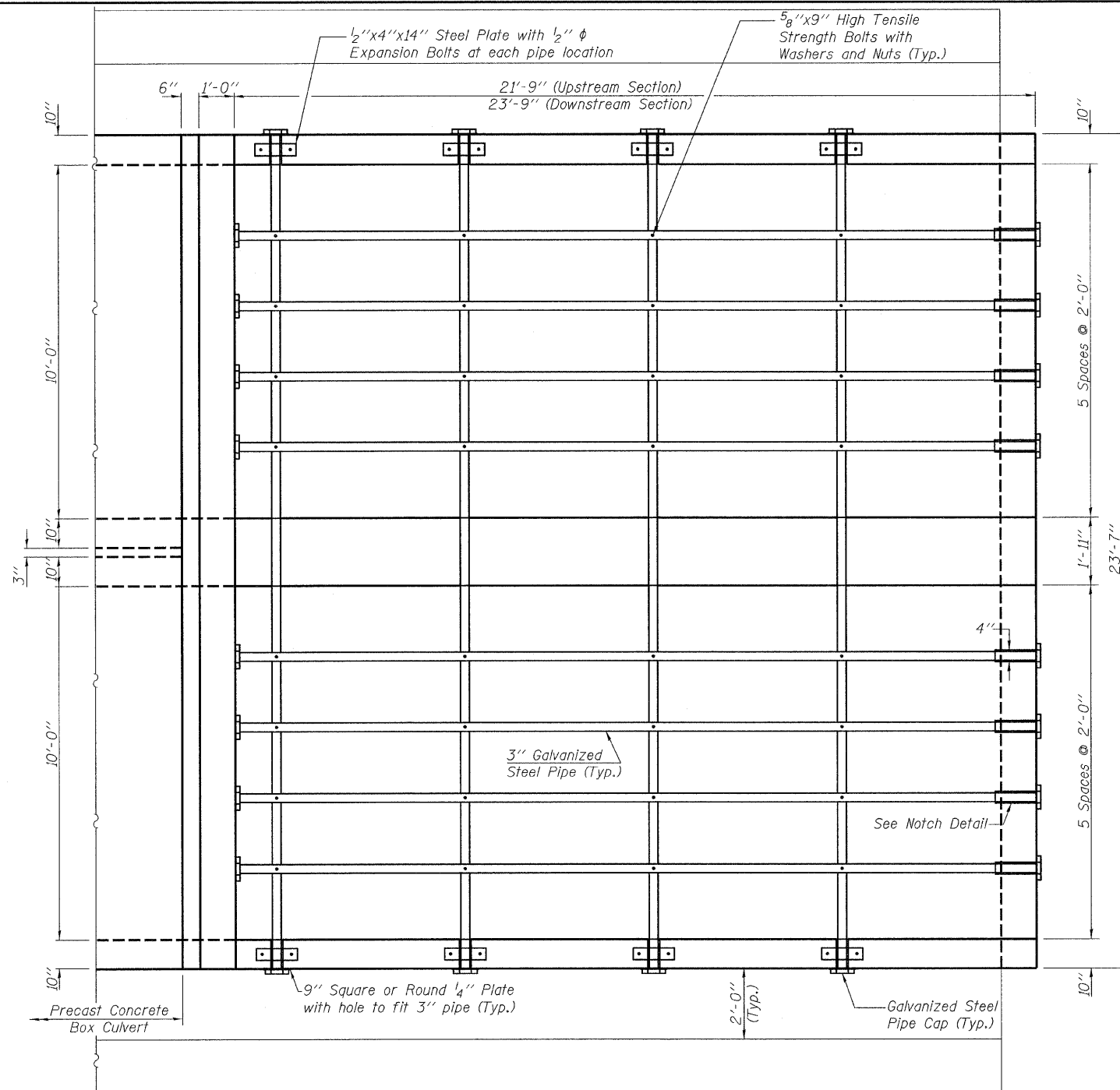
Steel Pipes shall conform to A.S.T.M. A-53 (Type E or S) Grade B, Schedule 40, and shall be galvanized conforming to A.S.T.M. A-120. Contractor shall field verify pipe length.

See Plan and Profile Sheet 76 of 335 for more information.

See Sheet 159 of 335 for details of Breaker Run Crushed Stone.

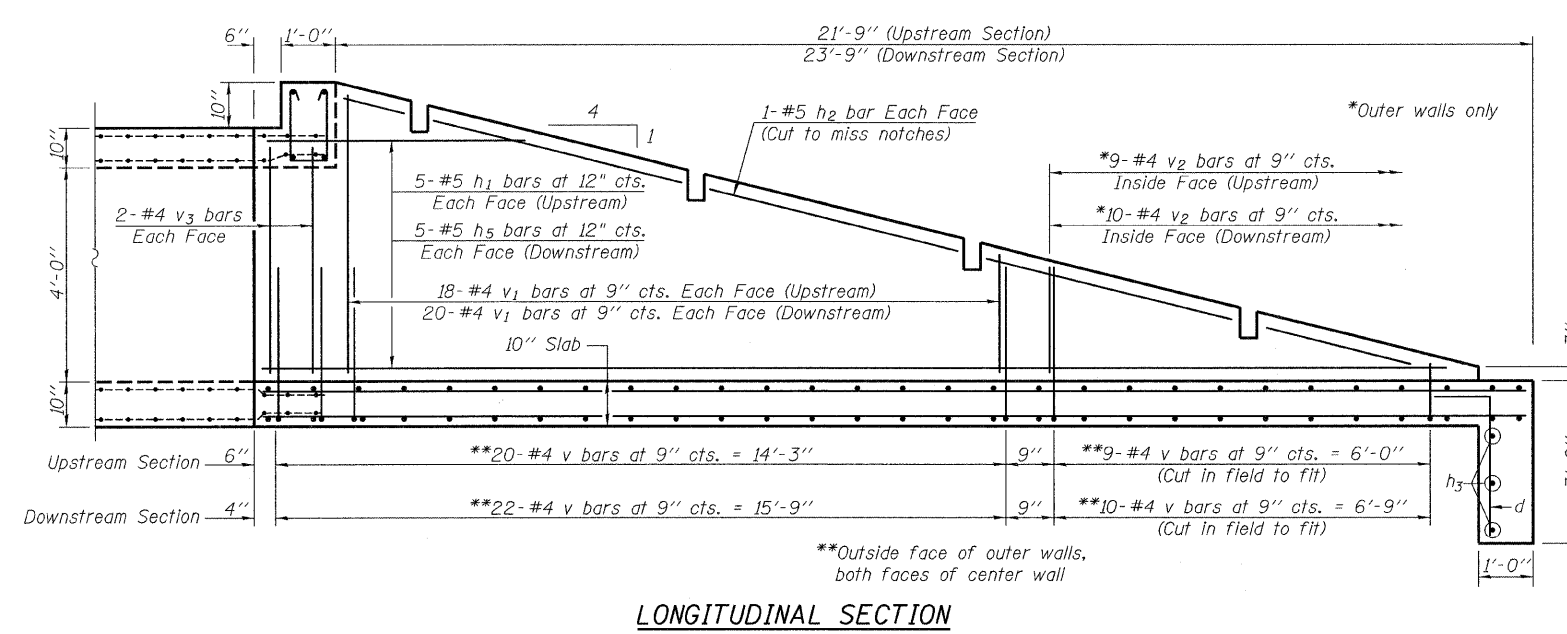
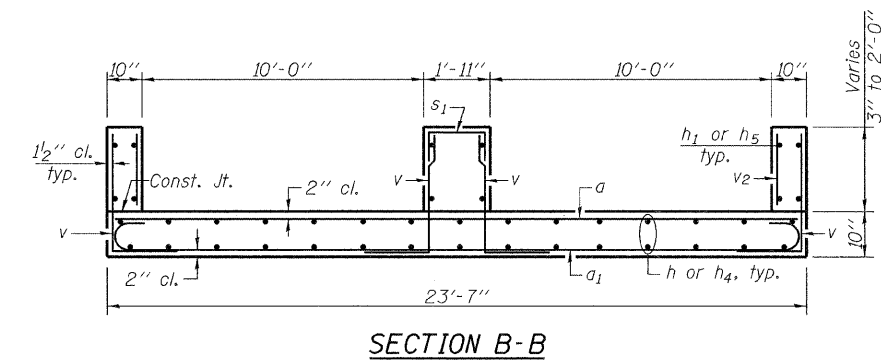
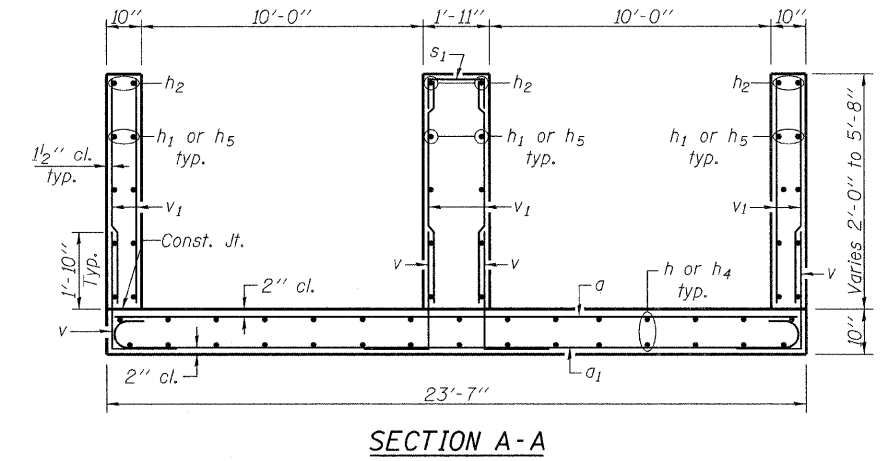
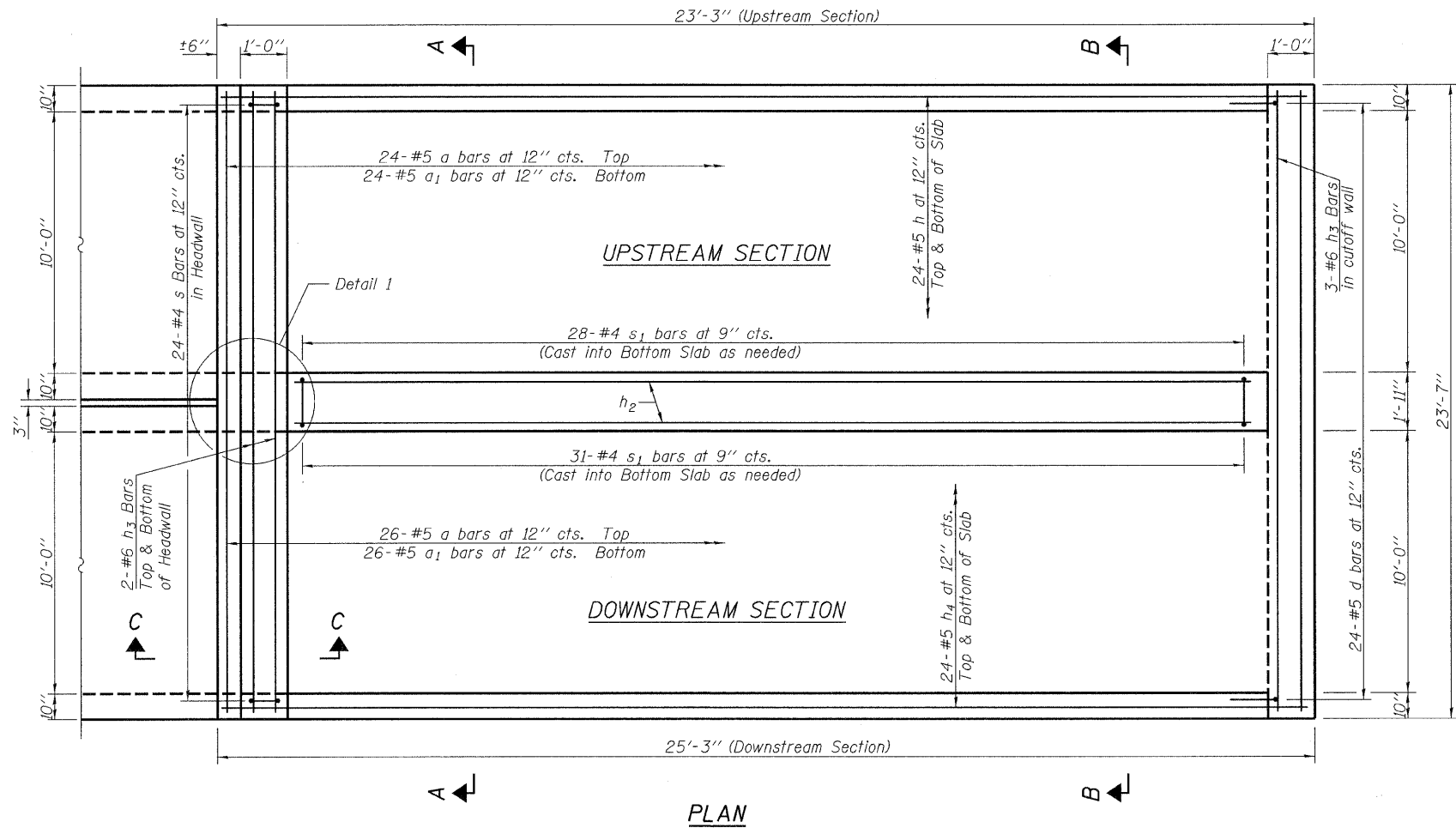
If the Contractor elects to use precast construction, the Precaster shall provide complete details in the shop drawings for review by the Engineer.

<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	<p>ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p>GRATED CULVERT EXTENSION NO. 11</p> <p>IL-75 OVER TRIBUTARY TO PECATONICA RIVER</p> <p>FAP RTE 505 - SECTION</p> <p>*111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1</p> <p>WINNEBAGO COUNTY</p> <p>STATION 11025+71</p> <p>STRUCTURE NO. 101-2049</p>
	<p>DATE: 3/03/2009</p> <p>DRAWN BY: BLB</p> <p>CHECKED BY: WJV</p>



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2 3 SHEETS
FAP 505	**	WINNEBAGO	335	146	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

**111RS-4, 111BR-1, Ya-15d-RS-1.8 (W-15d)T-1
Contract # 64970



NOTES

See Sheet 1 of 3 for General Notes.

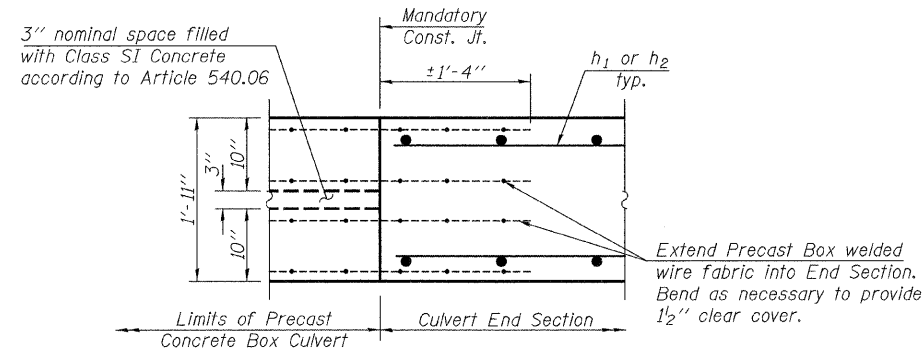
See Sheet 3 of 3 for Section C-C and Detail 1.

**Outside face of outer walls,
both faces of center wall

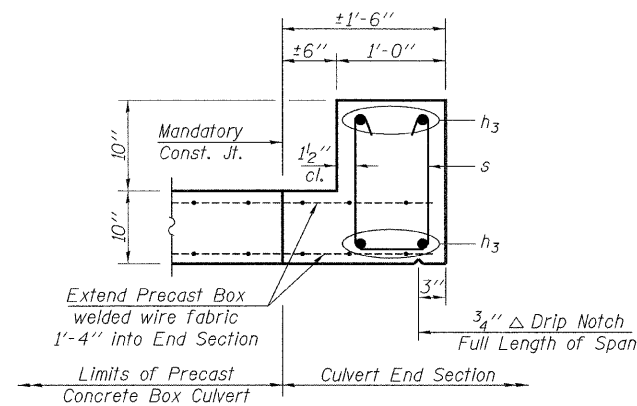
<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	<p>ILLINOIS DEPARTMENT OF TRANSPORTATION GRATED CULVERT EXTENSION NO. 11 IL-75 OVER TRIBUTARY TO PECATONICA RIVER FAP RTE 505 - SECTION *111RS-4, 111BR-1, Ya-15d-RS-1.8 (W-15d)T-1 WINNEBAGO COUNTY STATION 11025+71 STRUCTURE NO. 101-2049</p>
	<p>DATE: 3/03/2009</p> <p>DRAWN BY: BLB CHECKED BY: WJV</p>

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3
FAP 505	**	WINNEBAGO	335	147	3 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

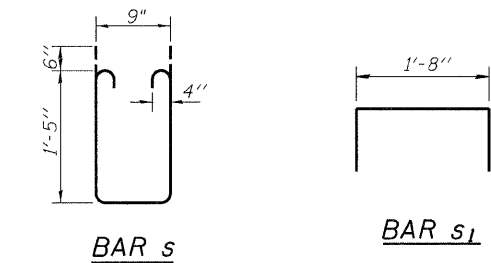
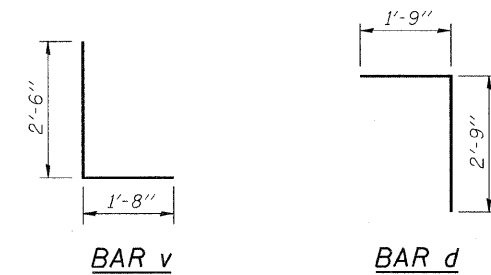
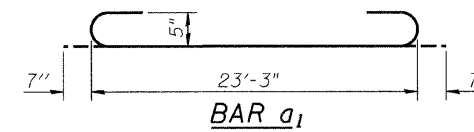
**111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1
Contract # 64970



DETAIL 1

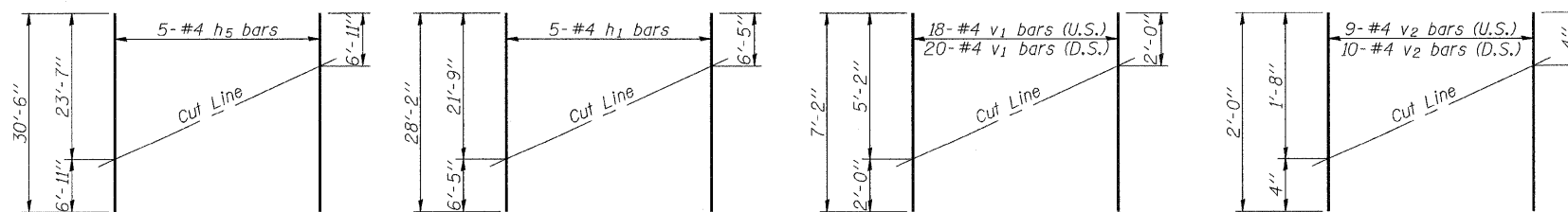


SECTION C-C



**BILL OF MATERIAL
TWO END SECTIONS**

Bar	No.	Size	Length	Shape
a	50	#5	23'-3"	—
a1	50	#5	24'-5"	—
d	48	#5	4'-6"	┌
h	48	#5	22'-11"	—
h1	15	#5	28'-2"	—
h2	12	#5	22'-9"	—
h3	14	#6	23'-3"	—
h4	48	#5	24'-11"	—
h5	15	#5	30'-6"	—
s	48	#5	4'-7"	□
s1	59	#4	3'-2"	□
v	244	#4	4'-2"	L
v1	114	#4	7'-2"	—
v2	38	#4	2'-0"	—
v3	24	#4	4'-5"	—
Reinforcement Bars			Pound	6,650
Concrete Structures			Cu. Yd.	61.4



FIELD CUTTING DIAGRAMS

Order bars full length. Cut as shown and use remainder of bars in opposite face (h1, h4, v1) or opposite wingwall (v2).

NOTE

See Sheet 1 of 2 for General Notes.

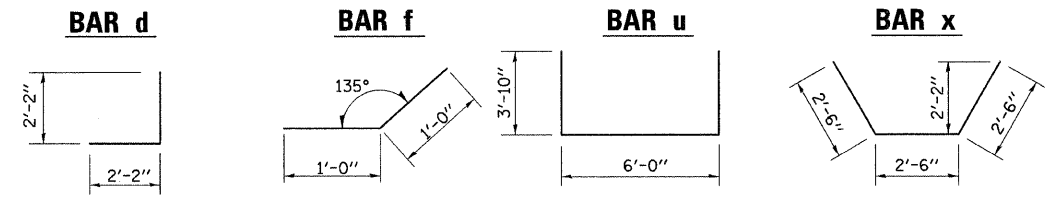
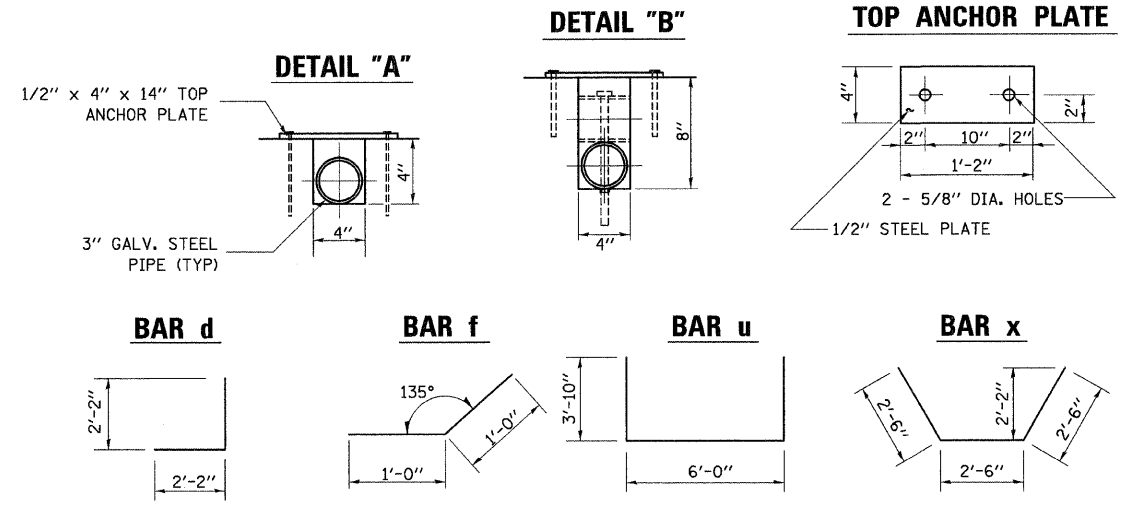
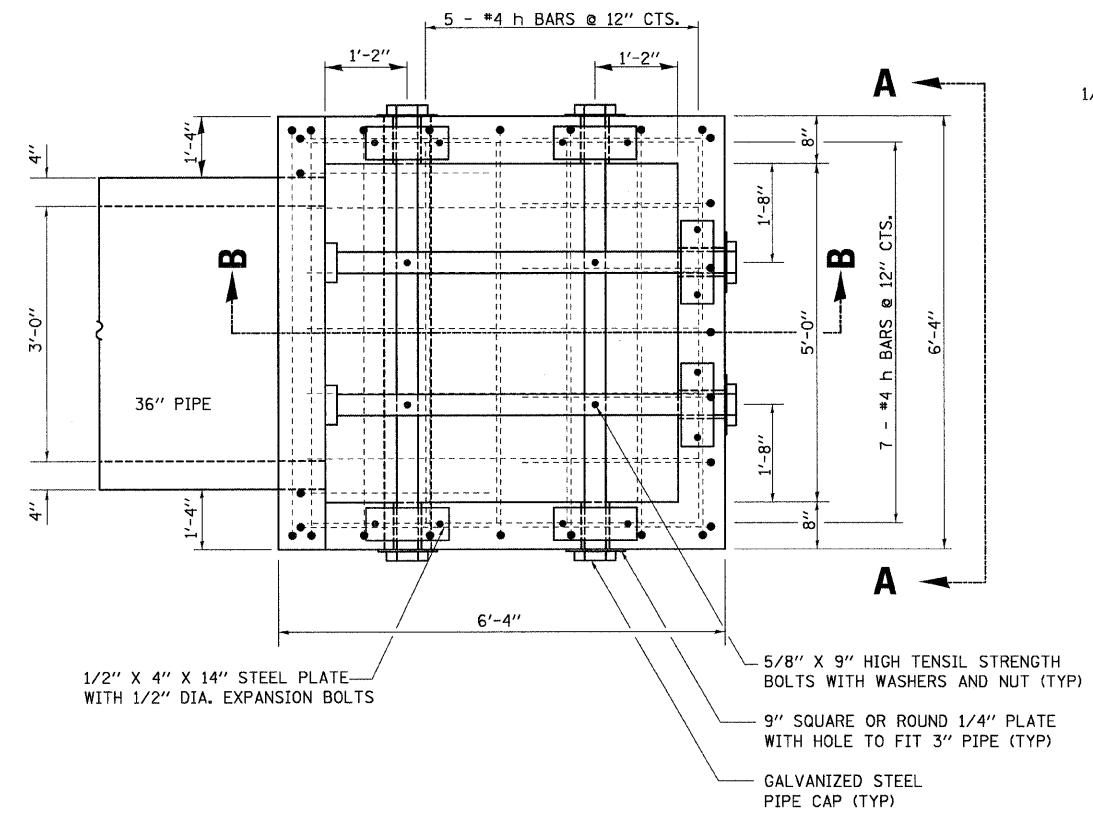
 Excellence through Ownership 200 West Front Street Wheaton, IL 60187	ILLINOIS DEPARTMENT OF TRANSPORTATION GRATED CULVERT EXTENSION NO. 11 IL-75 OVER TRIBUTARY TO PECATONICA RIVER FAP RTE 505 - SECTION •111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1 WINNEBAGO COUNTY STATION 11025+71 STRUCTURE NO. 101-2049
	DATE: 3/03/2009 DRAWN BY: BLB CHECKED BY: WJV

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WINNEBAGO	335	148
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
*FAP 505 (IL 75)				
**111RS-4, 111BR-1, Yo-15d-RS-1, & (W-15d)T-1				

DROP BOX NO. 12

RT STA. 109 + 39

PLAN



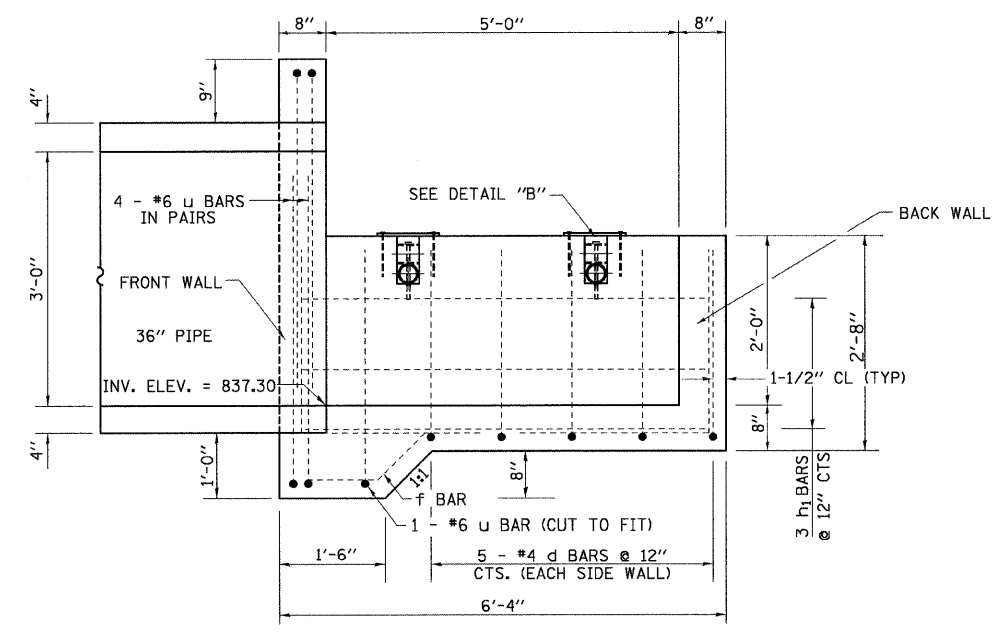
BILL OF MATERIALS (FOR REINFORCEMENT)

BAR	SIZE	NO.	LENGTH	WEIGHT (LB)	
d	4	21	4'-4"	60.79	
f	4	7	2'-0"	9.35	
h	6	12	6'-0"	108.14	
u	6	5	13'-7"	102.01	
x	4	2	7'-6"	10.02	
DESCRIPTION				UNIT	QTY
CONCRETE STRUCTURES				CU YD	2.5
REINFORCEMENT BARS				LB	290

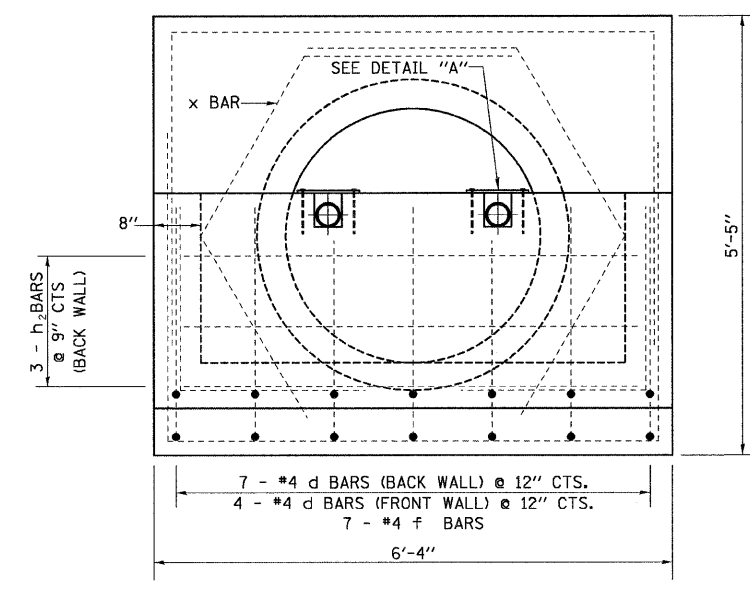
BILL OF MATERIALS (FOR GRATED DROP BOX)

DESCRIPTION	UNIT	QTY.
3" GALVANIZED STEEL PIPE	FOOT	2 @ 6'-4"
3" GALV PIPE CAPS	EACH	2 @ 5'-8"
3" GALV PIPE CAPS	EACH	8
1/4" GALV. STEEL PLATE (9" NOMINAL)	EACH	6
1/2" x 4" x 14" GALV. STEEL PLATE	EACH	6
5/8" x 9" GALV. STEEL BOLTS	EACH	4
EXPANSION BOLTS 1/2"φ	EACH	12

SECTION B-B



VIEW A-A



GENERAL NOTES:

SLOPE FLOW LINE OF THE DROP BOX AT THE SAME RATE AS THE FLOW LINE OF THE BOX CULVERT.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120. CONTRACTOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A 706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISION.

SEE PLAN AND PROFILE SHEET 78 OF 335 FOR MORE INFORMATION.

SEE SHEET 159 OF 335 FOR DETAILS OF BREAKER RUN CRUSHED STONE.

THE CONTRACT UNIT PRICE "CU. YD." FOR CONCRETE STRUCTURES SHALL INCLUDE THE GALVANIZED PIPE, BOLTS, NUTS, WASHERS, AND STEEL PLATES, AND ALL APPLICABLE WORK ACCORDING TO SECTION 503 OF THE STANDARD SPECIFICATIONS.

PLOT DATE = 3/2/2009
 FILE NAME = #FILEL*
 USER NAME = #USER#

Bench Mark: GPS control point at Station 11055+65.22, 29.18' Rt. Elev. 810.62.

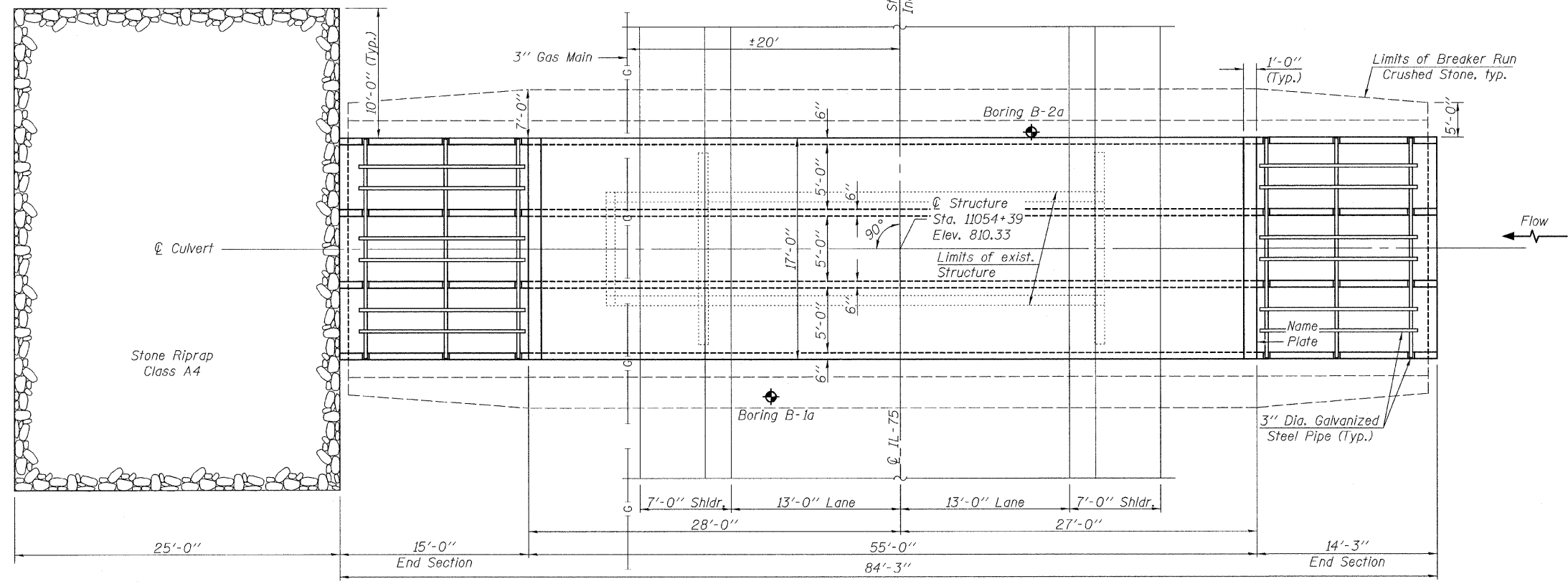
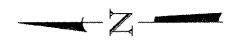
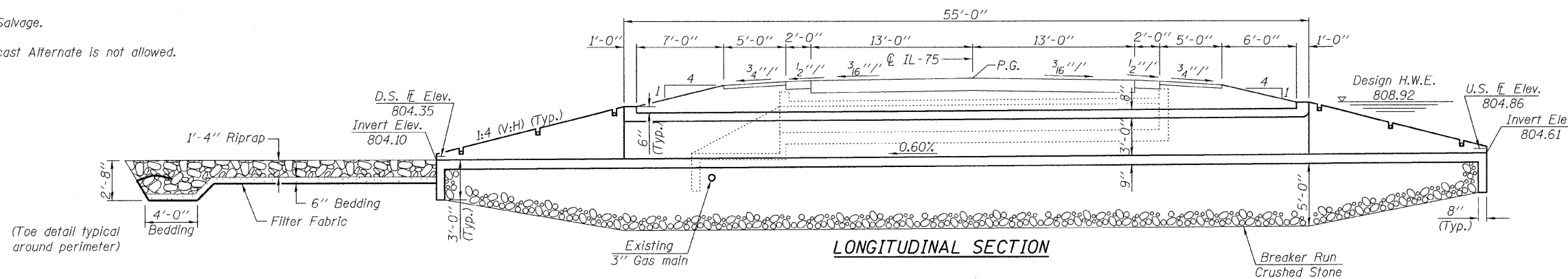
Existing Structure: SN 101-1044 is a 7'x2' reinforced concrete box culvert.
Culvert length of 31'-0". Traffic to be detoured.

No Salvage.

Precast Alternate is not allowed.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1 5 SHEETS
FAP 505	**	WINNEBAGO	335	149	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract # 64970
** (W-15d) T-1



LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
AASHTO 2002 Standard Specifications
for Highway Bridges

DESIGN STRESSES

FIELD UNITS

f'_c	= 3,500 psi
f_y	= 60,000 psi (reinforcement)
f_y	= 35,000 psi (steel pipe)

WATERWAY INFORMATION

Drainage Area	Low Grade Elev. 810.26			
= 170 Acres	Sta. 11052+83			
Flood	Freq. Yr.	Q C.F.S.	Headwater El. Exist.	Prop.
Ten-Year	10	220	810.53	807.76
Design	50	309	810.63	808.92
Base	100	357	810.67	809.66
Ex Overtopping	<1	98	810.26	
Pr Overtopping	159	391		810.26

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 14	Each	1
Concrete Box Culverts	Cu. Yd.	82.7
Reinforcement Bars	Pound	14,750
Stone Riprap, Class A4	Sq. Yd.	103
Filter Fabric	Sq. Yd.	103
Breaker Run Crushed Stone	Ton	683
Name Plates	Each	1

INDEX OF SHEETS

Sheet No.	Description
1.	General Plan and Elevation
2.	Culvert Details I
3.	Culvert Details II
4.	Culvert Details III
5.	Borings

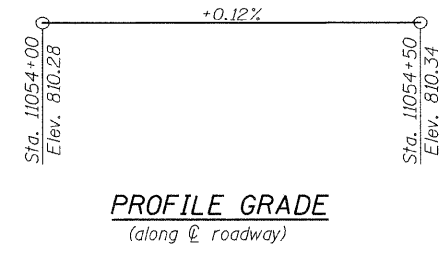
STATION 11054+39
BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 505 SEC. (W-15d)T-1
LOADING HS20
STRUCTURE NO. 101-1083

NAME PLATE
See Std. 515001

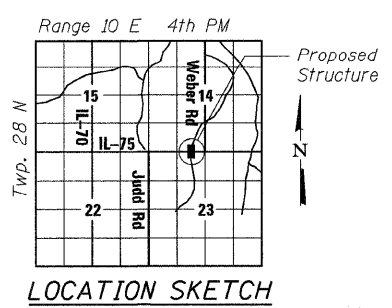
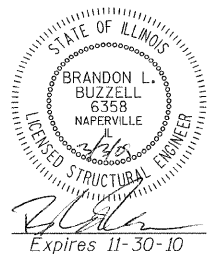
GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
The proposed grated end sections (headwalls and wingwalls) shall extend less than four inches (i.e. 3 inches typical) above the adjacent ground elevation.
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
See Sheet 3 of 5 for Breaker Run Crushed Stone details.

PLAN



REMOVED FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

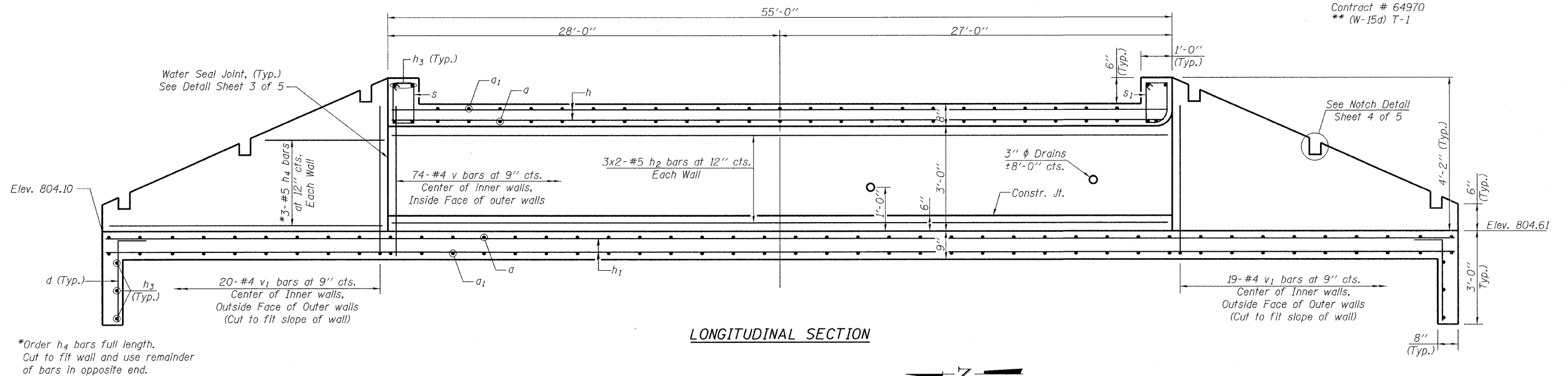


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Wheaton, IL 60187

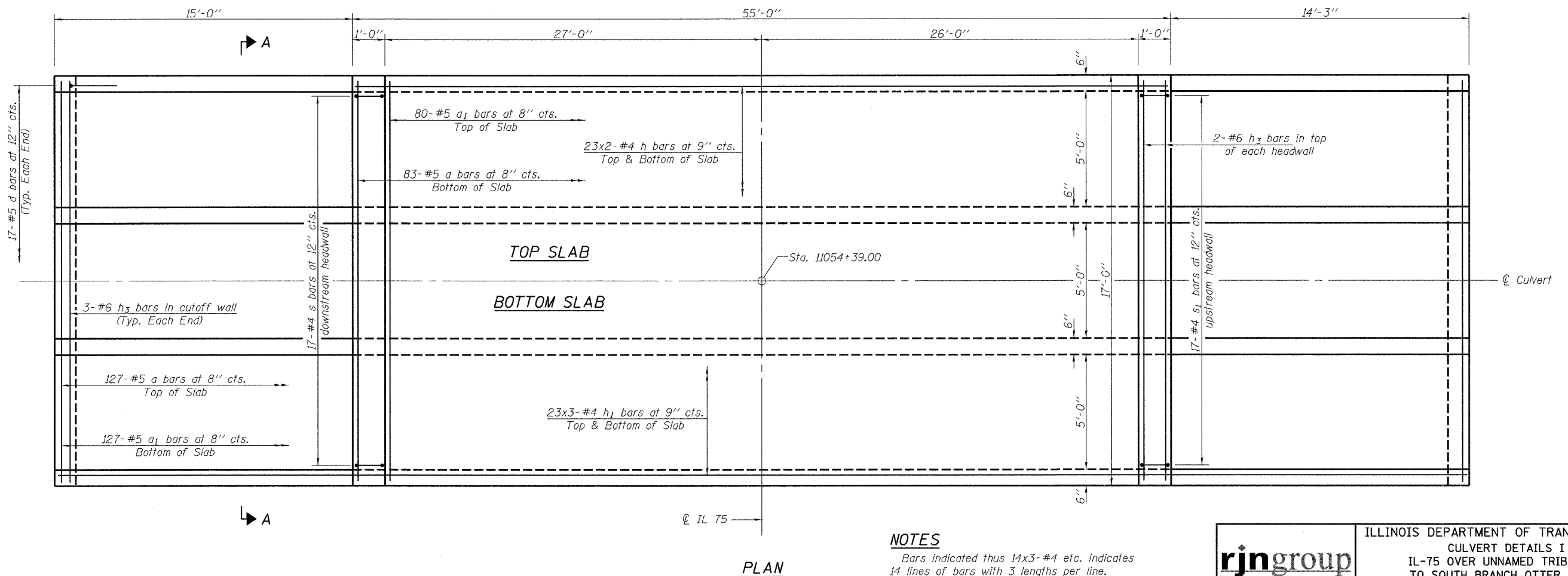
ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN AND ELEVATION
IL-75 OVER UNNAMED TRIBUTARY
TO SOUTH BRANCH OTTER CREEK
FAP RTE 505 - SECTION (W-15d)T-1
WINNEBAGO COUNTY
STATION 11054+39
STRUCTURE NO. 101-1083
DATE: 3/03/2009
DRAWN BY JMT
CHECKED BY BLB

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2 5 SHEETS
FAP 505	**	WINNEBAGO	335	150	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract # 64970
** (W-15d) T-1



*Order h_4 bars full length.
Cut to fit wall and use remainder
of bars in opposite end.



NOTES

Bars indicated thus 14x3-#4 etc. indicates
14 lines of bars with 3 lengths per line.
Minimum lap length for #4 bars = 1'-8",
#5 bars = 2'-2".
See Sheet 3 of 5 for cross section thru barrels,
Section A-A, and headwall details.
See Sheet 4 of 5 for End Section details.

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Excellence through Ownership

200 West Front Street
Wheaton, IL 60187

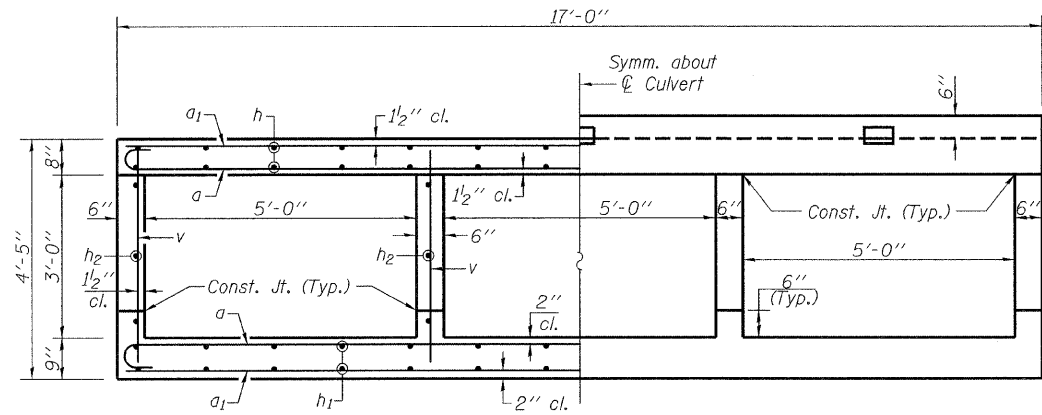
ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT DETAILS I
IL-75 OVER UNNAMED TRIBUTARY
TO SOUTH BRANCH OTTER CREEK
FAP RTE 505 - SECTION (W-15d)T-1
WINNEBAGO COUNTY
STATION 11054+39
STRUCTURE NO. 101-1083

DATE: 3/03/2009

DRAWN BY JMT
CHECKED BY BLB

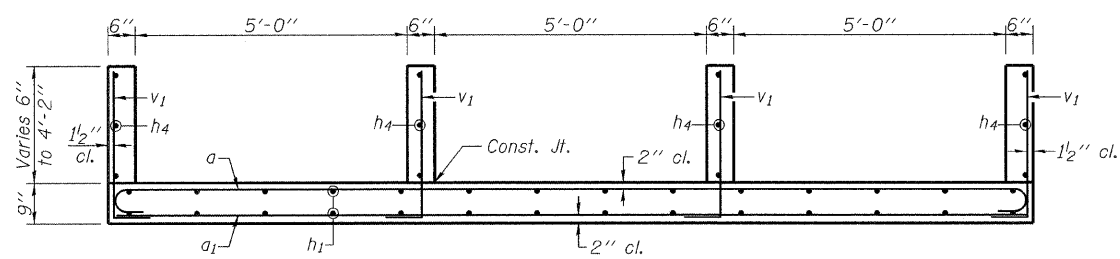
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3 5 SHEETS
FAP 505	**	WINNEBAGO	335	151	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract # 64970
** (W-15d) T-1

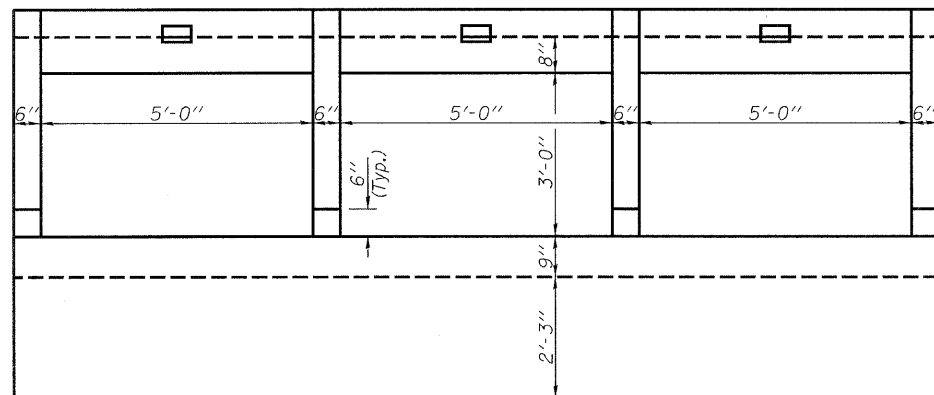


HALF SECTION
THRU BARREL

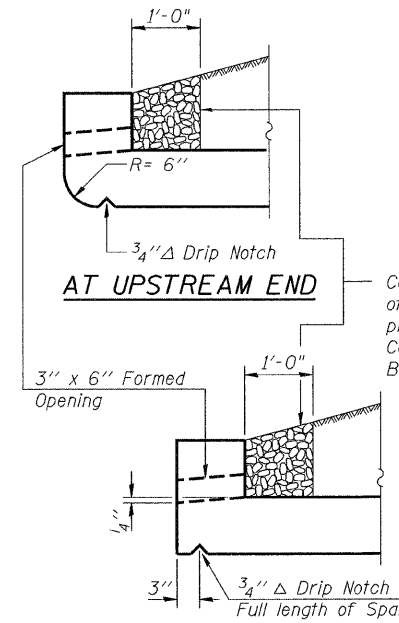
HALF ELEVATION
AT END OF BARREL



SECTION A-A



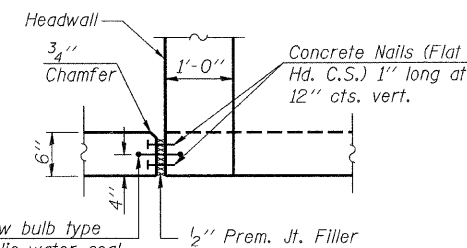
END ELEVATION



AT UPSTREAM END

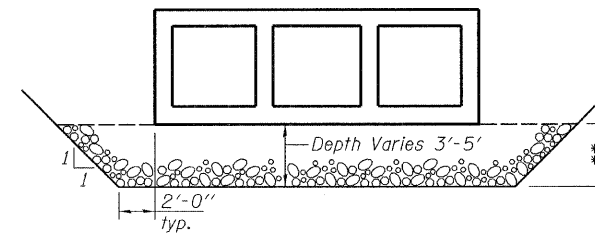
AT DOWNSTREAM END

DRAIN DETAIL



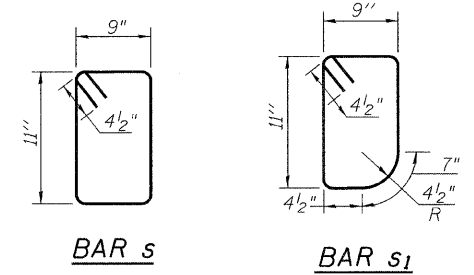
WATER SEAL JOINT DETAIL

Cost of Water Seal Joint included
with Concrete Box Culverts



BREAKER RUN CRUSHED STONE DETAIL

** See Schedule of Quantities
on sheet 23 of 335 for
Removal of Unsuitable Material



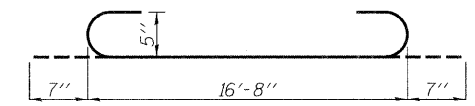
BAR s

BAR s1

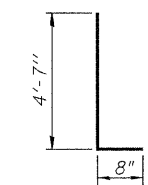
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	210	#5	17'-10"	U
a1	207	#5	16'-8"	—
d	34	#5	4'-6"	L
h	92	#4	28'-2"	—
h1	138	#4	29'-1"	—
h2	24	#5	28'-6"	—
h3	10	#6	16'-8"	—
h4	12	#5	21'-2"	—
s	17	#4	4'-1"	U
s1	17	#4	3'-11"	U
v	296	#4	4'-1"	—
v1	156	#4	5'-3"	L

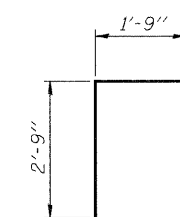
Concrete Box Culverts	Cu. Yd.	82.7
Reinforcement Bars	Pound	14,750
Breaker Run Crushed Stone	Ton	683



BAR a



BAR v1



BAR d

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200 West Front Street
Wheaton, IL 60187

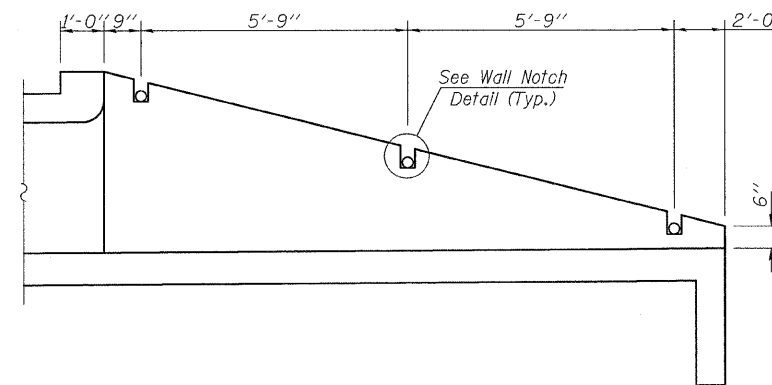
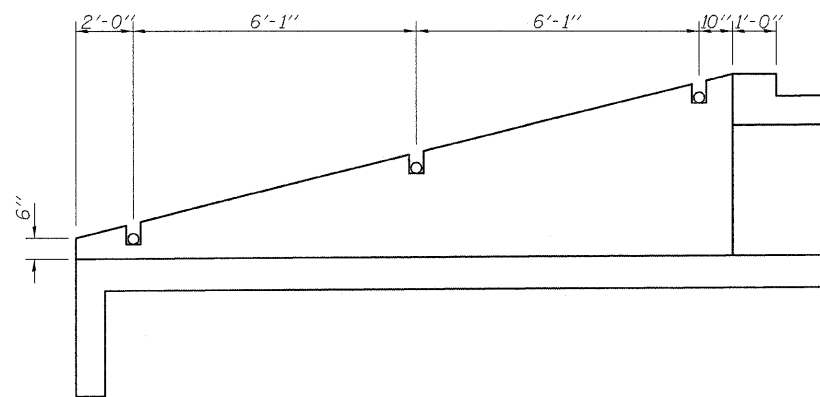
ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT DETAILS II
IL-75 OVER UNNAMED TRIBUTARY
TO SOUTH BRANCH OTTER CREEK
FAP RTE 505 - SECTION (W-15d)T-1
WINNEBAGO COUNTY
STATION 11054+39
STRUCTURE NO. 101-1083

DATE: 3/03/2009

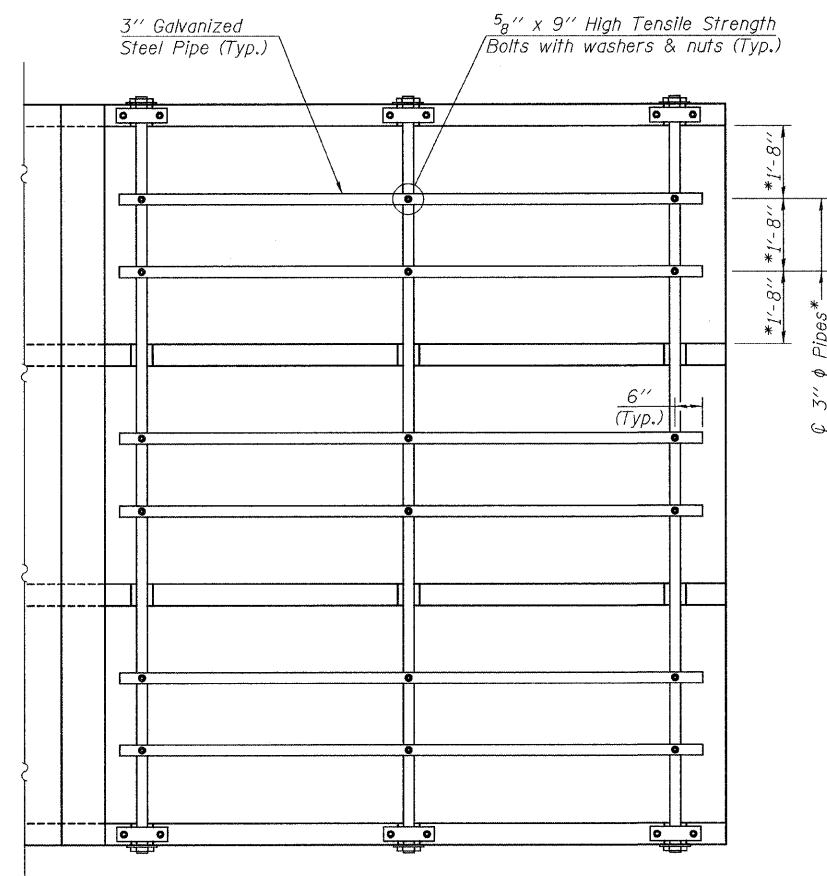
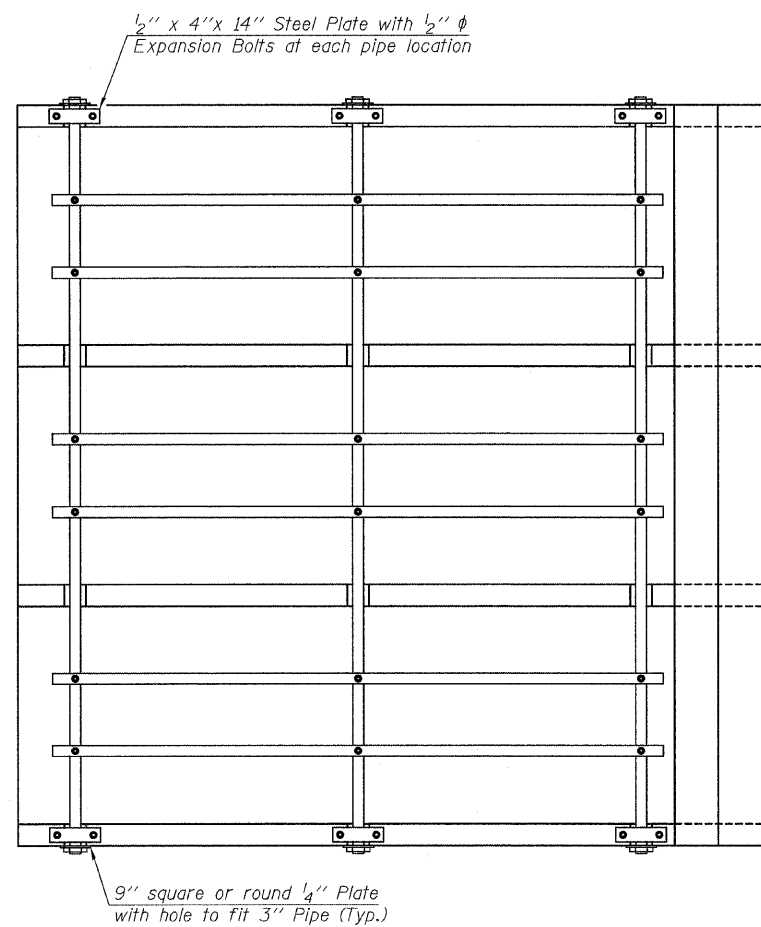
DRAWN BY JMT
CHECKED BY BLB

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4 5 SHEETS
FAP 505	**	WINNEBAGO	335	152	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

Contract # 64970
** (W-15d) T-1



ELEVATION



PLAN

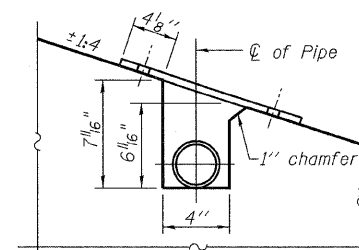
NOTES

Grating shall include pipes, plates, expansion bolts, and all other hardware as shown and shall be included with the contract unit price per Cu. Yd. for Concrete Box Culverts.

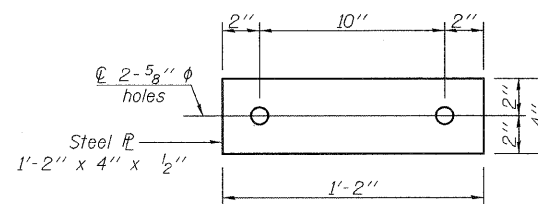
Bolts, Nuts, and Washers shall be in accordance with Article 1006.08 of the standard specification and shall be galvanized.

Steel Plates shall conform to AASHTO M-183 and shall be galvanized conforming to AASHTO M-111.

Steel pipes shall conform to A.S.T.M. A-53 (Type E or S) Grade B, Schedule 40, and shall be galvanized conforming to A.S.T.M. A-120. Contractor shall field verify pipe length.



WALL NOTCH DETAIL
(Typical center and outside walls)



TOP ANCHOR PLATE


*Typ. Each Cell



3/2/2009 K:\117924\Structure\3 call.dgn

<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	<p>ILLINOIS DEPARTMENT OF TRANSPORTATION CULVERT DETAILS III IL-75 OVER UNNAMED TRIBUTARY TO SOUTH BRANCH OTTER CREEK FAP RTE 505 - SECTION (W-15d)T-1 WINNEBAGO COUNTY STATION 11054+39 STRUCTURE NO. 101-1083</p>
	<p>DATE: 3/03/2009</p> <p>DRAWN BY JMT CHECKED BY BLB</p>

Contract # 64970
** (W-15d) T-1



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation-D-2

SOIL BORING LOG

Page 1 of 1

Date 7/4/06

ROUTE FAP 505 DESCRIPTION P92-102-06 IL 75 box culvert, 1 m. W. of Weber Road LOGGED BY J. Strating


SECTION (W-15d)T-1 LOCATION Durand Twp. - 14 SW, SEC., TWP. 28N, RNG. 10E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	D E P T H	B L O S S	U C S	M O S T	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O S S	U C S	M O S T
101-1044 11054+42					96.00 ft 96.00 ft				
BORING NO. <u>B-1a</u> Station <u>+ 12 W. of CL</u> Offset <u>10.00ft N CL</u> Ground Surface Elev. <u>99.80</u>					Groundwater Elev.: First Encounter <u>87.8</u> ft Upon Completion <u>61.3</u> ft After _____ Hrs.				
MEDIUM brown SILTY CLAY LOAM			0.5	24.0	STIFF tan LOAM TILL (continued)	78.80	5	2.0	11.0
			P				8	B	
STIFF brown SILTY LOAM	97.80	2			STIFF tan LOAM TILL		6		
		2	1.3	24.0			6	1.5	11.0
	96.30	5	P			76.30	8	B	
MEDIUM brown/gray SILTY LOAM		2			VERY STIFF tan LOAM TILL		9		
		2	0.8	26.0		73.80	12	2.5	10.0
	93.80	3	B				14	P	
MEDIUM black SILTY LOAM		1			VERY STIFF gray LOAM TILL		8		
		1	0.5	44.0		71.30	15		9.0
	91.30	3	B				22		
MEDIUM dark brown SILTY CLAY LOAM		1			HARD gray LOAM TILL with LIMESTONE		22		
		3	0.9	26.0		-30	25		8.0
	88.80	2	B			68.80	22		
VERY SOFT tan/brown SANDY LOAM		1			STIFF gray LOAM TILL		7		
		2	0.2	16.0		66.30	9	2.0	7.0
	86.30	2	P				12	P	
VERY SOFT tan SANDY LOAM		1			VERY STIFF gray LOAM TILL		8		
		1	0.2	14.0		-35	12	2.5	9.0
	83.30	3	P			63.80	14	P	
MEDIUM tan weathered limestone ledge		5			VERY STIFF gray CLAY LOAM TILL		8		
		14					11	3.5	11.0
	81.30	13				61.30	13	B	
STIFF tan LOAM TILL		5			End of Boring				
	-20					-40			

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

BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation-D-2

SOIL BORING LOG

Page 1 of 1

Date 7/4/06

ROUTE FAP 505 DESCRIPTION P92-102-06 IL 75 box culvert, 1 m. W. of Weber Road LOGGED BY J. Strating


SECTION (W-15d)T-1 LOCATION Durand Twp. - 14 SW, SEC., TWP. 28N, RNG. 10E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	D E P T H	B L O S S	U C S	M O S T	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O S S	U C S	M O S T
101-1044 11054+42					96.00 ft 96.00 ft				
BORING NO. <u>B-2a</u> Station <u>9' E. of CL</u> Offset <u>10.00ft S CL</u> Ground Surface Elev. <u>99.80</u>					Groundwater Elev.: First Encounter <u>85.3</u> ft Upon Completion <u>83.3</u> ft After _____ Hrs.				
MEDIUM dark brown SILTY CLAY LOAM			0.5	15.0	STIFF tan LOAM TILL (continued)	78.80	5	1.1	12.0
			P				8	B	
No Recovery	97.80	1			STIFF tan LOAM TILL		6		
		1					6	1.5	12.0
	96.30	2				75.80	11	B	
SOFT gray/brown SILTY LOAM		1			VERY DENSE tan weathered LIMESTONE		32		
		2	0.3	29.0		1009*			
	93.80	2	B		End of Boring				
SOFT brown SILTY LOAM		0							
		1	0.3	34.0					
	91.30	3	P						
MEDIUM brown SILTY CLAY LOAM		1							
		3	0.9	31.0					
	88.30	3	B						
MEDIUM tan weathered LIMESTONE ledge		1							
		9							
	86.30	5							
MEDIUM tan LOAM TILL		1							
		3	0.8	13.0					
	83.80	4	P						
MEDIUM tan LOAM TILL		1							
		3	0.6	9.0					
	81.30	6	B						
STIFF tan LOAM TILL		1							
	-20					-40			

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

BBS, from 137 (Rev. 8-99)



Excellence through Ownership

200 West Front Street
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORINGS
IL-75 OVER UNNAMED TRIBUTARY
TO SOUTH BRANCH OTTER CREEK
FAP RTE 505 - SECTION (W-15d)T-1
WINNEBAGO COUNTY
STATION 11054+39
STRUCTURE NO. 101-1083

DATE: 3/03/2009

DRAWN BY JMT
CHECKED BY BLB

Bench Mark: GPS control point at Station 11072+11.46, 27.87' Rt. Elev. 795.49

Existing Structure: SN 101-1043 is a 30' long 10'x5' reinforced concrete box culvert at Station 11075+52. Traffic to be detoured during construction.

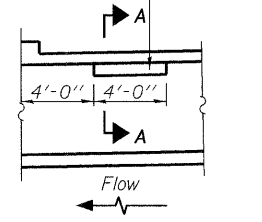
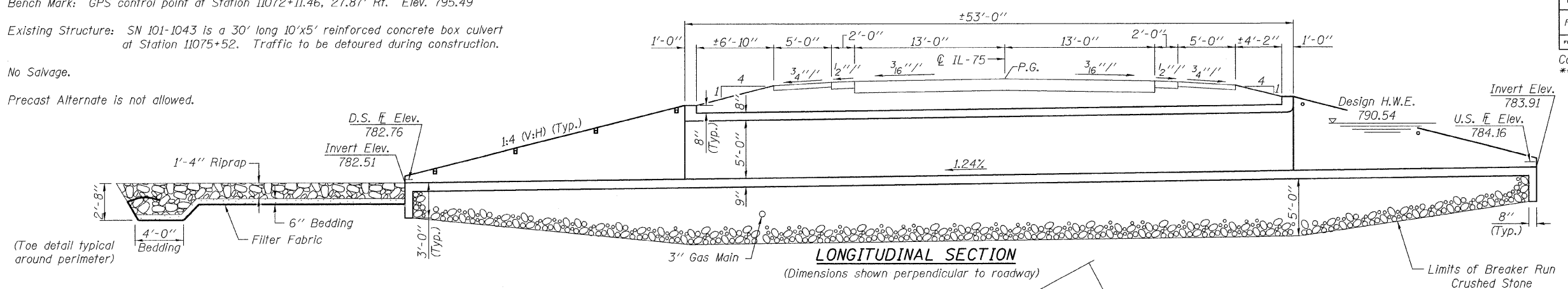
No Salvage.

Precast Alternate is not allowed.

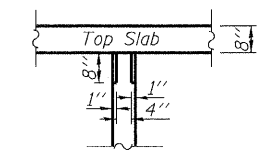
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO.
FAP 505	**	WINNEBAGO	335	154	5 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract #64970
** (W-15d) T-1

Notch formed by rough finished board attached to and removed with formwork, each interior wall. (Do not chamfer)



LONGITUDINAL SECTION



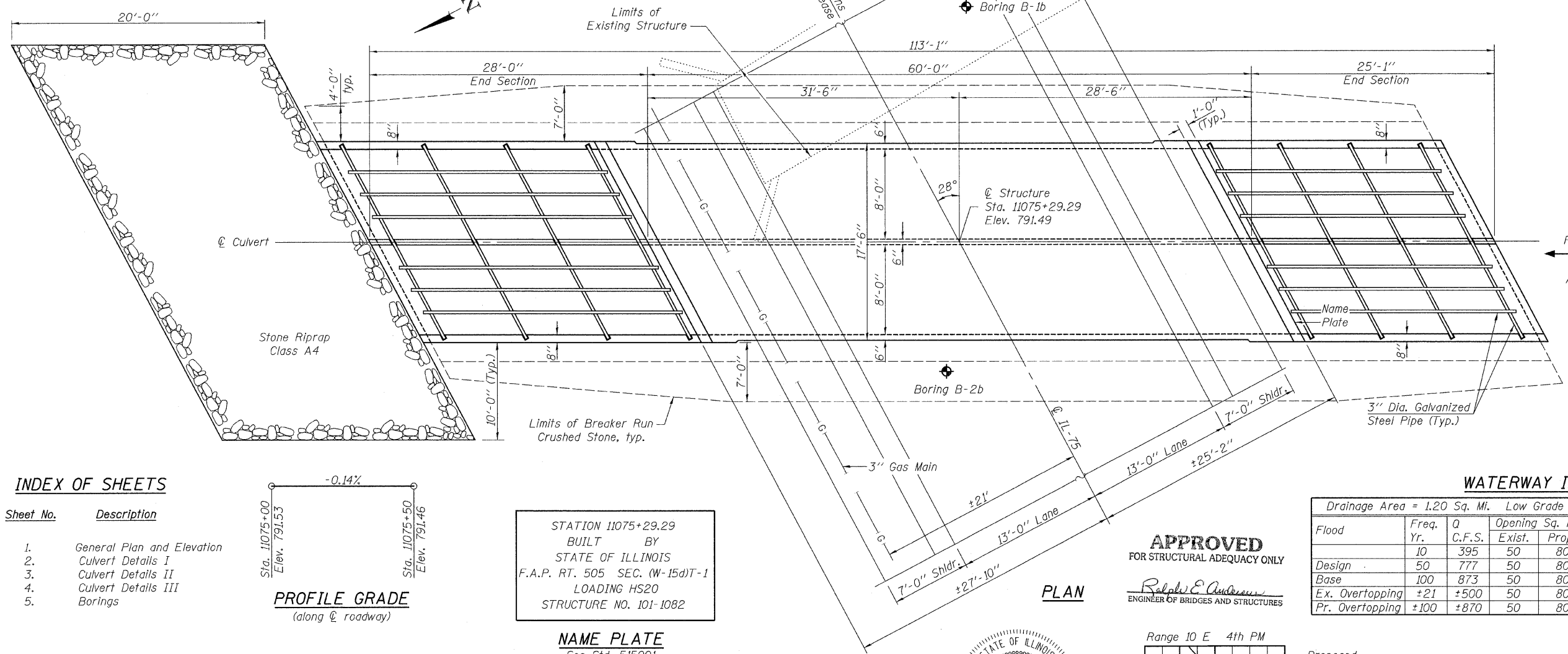
SECTION A-A

PHOEBE NESTING SITE DETAILS
(Downstream End Only)

LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES
FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 35,000 psi (steel pipe)



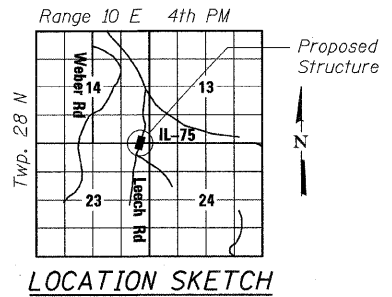
WATERWAY INFORMATION

Drainage Area = 1.20 Sq. Mi. Low Grade Elev. 791.41 @ Sta. 11075+88.6

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	395	50	80	786.3	0.50	-0.20	790.39	788.00
Design	50	777	50	80	787.24	1.95	1.99	791.84	790.54
Base	100	873	50	80	787.55	2.22	2.94	792.11	791.49
Ex. Overtopping	±21	±500	50	80	-	1.52	-	791.41	-
Pr. Overtopping	±100	±870	50	80	-	-	2.86	-	791.41

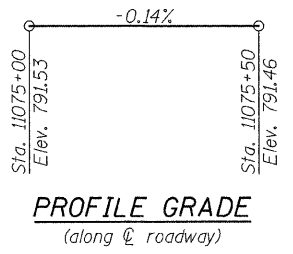
APPROVED FOR STRUCTURAL ADEQUACY ONLY

Robert E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



INDEX OF SHEETS

Sheet No.	Description
1.	General Plan and Elevation
2.	Culvert Details I
3.	Culvert Details II
4.	Culvert Details III
5.	Borings



STATION 11075+29.29
BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 505 SEC. (W-15d)T-1
LOADING HS20
STRUCTURE NO. 101-1082

NAME PLATE
See Std. 515001

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
The proposed grouted end sections (headwalls and wingwalls) shall extend less than four inches (i.e. 3 inches typical) above the adjacent ground elevation.
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
See Sheet 3 of 5 for Breaker Run Crushed Stone detail.

TOTAL BILL OF MATERIAL

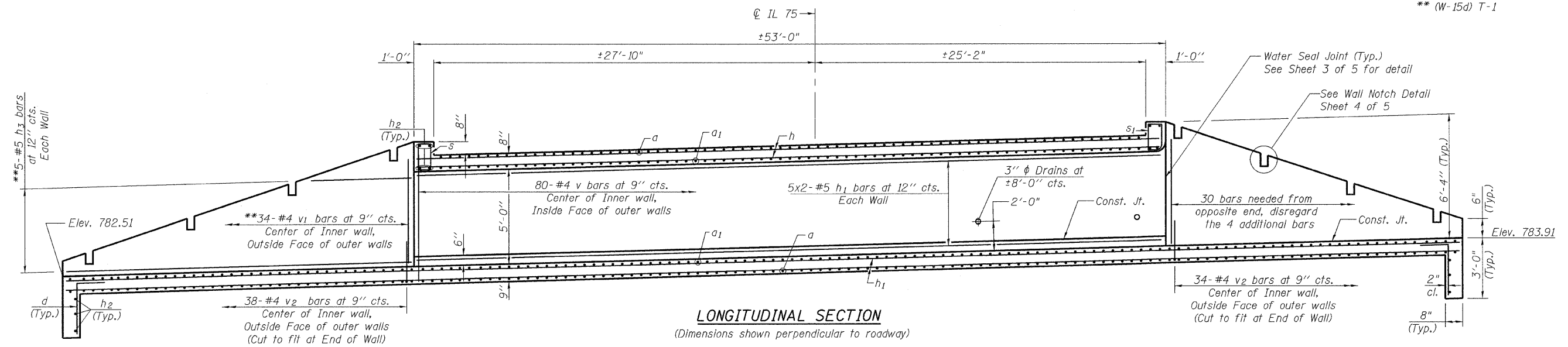
ITEM	UNIT	TOTAL
Removal of Existing Structures No. 15	Each	1
Concrete Box Culverts	Cu. Yd.	113.1
Reinforcement Bars	Pound	38,700
Stone Riprap, Class A4	Sq. Yd.	84
Filter Fabric	Sq. Yd.	84
Breaker Run Crushed Stone	Ton	921
Name Plates	Each	1

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Wheaton, IL 60187

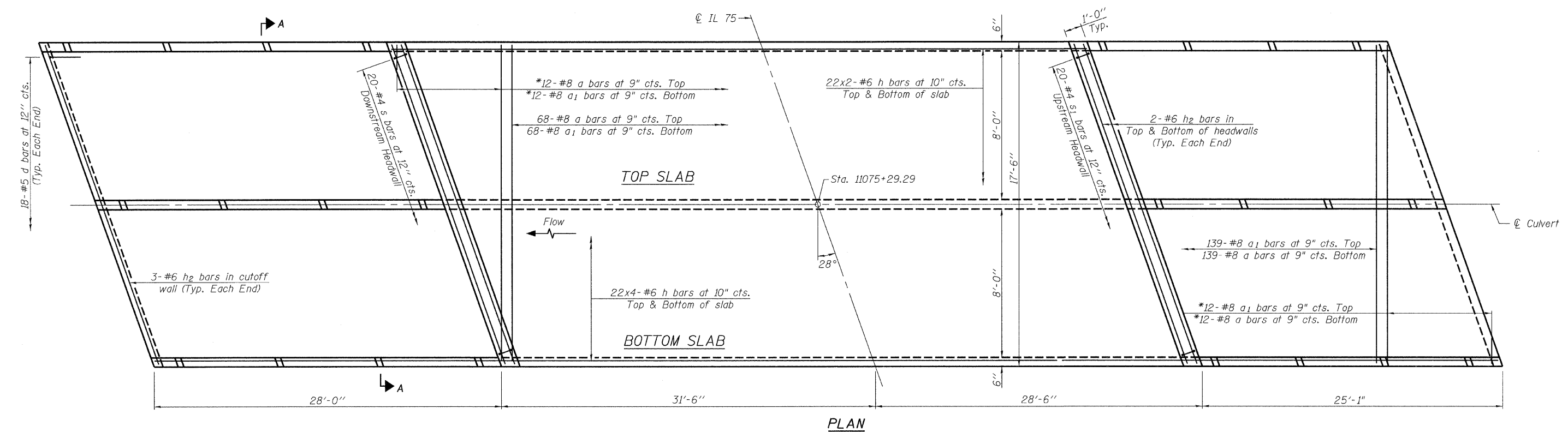
ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
IL 75 OVER UNNAMED TRIBUTARY
TO SOUTH BRANCH OTTER CREEK
FAP RTE 505 - SECTION (W-15d)T-1
WINNEBAGO COUNTY
STATION 11075+29.29
STRUCTURE NO. 101-1082
DATE: 3/03/2009
DRAWN BY JMT
CHECKED BY BLB

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2 5 SHEETS
FAP 505	**	WINNEBAGO	335	155	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract #64970
 ** (W-15d) T-1



**Order v₁ and h₄ bars full length.
 Cut to fit wall and use remainder
 of bars in opposite end.



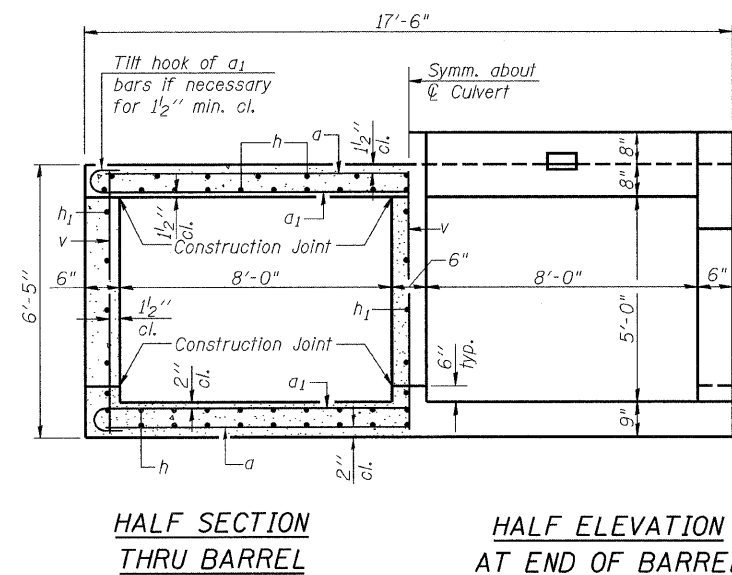
*Order a(E) and a₁(E) bars full length.
 Cut to fit skew and use remainder
 of bars in opposite end.

NOTES
 Bars indicated thus 12x2-#5 etc. indicates
 12 lines of bars with 2 lengths per line.
 Minimum lap length for #5 Bars = 1'-8",
 #6 Bars = 2'-0".
 See Sheet 3 of 5 for cross section thru barrels,
 Section A-A and headwall details.
 See Sheet 4 of 5 for Grated Culvert Extension
 details.

 Excellence through Ownership 200 West Front Street Wheaton, IL 60187	ILLINOIS DEPARTMENT OF TRANSPORTATION CULVERT DETAILS I IL 75 OVER UNNAMED TRIBUTARY TO SOUTH BRANCH OTTER CREEK FAP RTE 505 - SECTION (W-15d)T-1 WINNEBAGO COUNTY STATION 11075+29.29 STRUCTURE NO. 101-1082
	DATE: 3/03/2009 DRAWN BY JMT CHECKED BY BLB

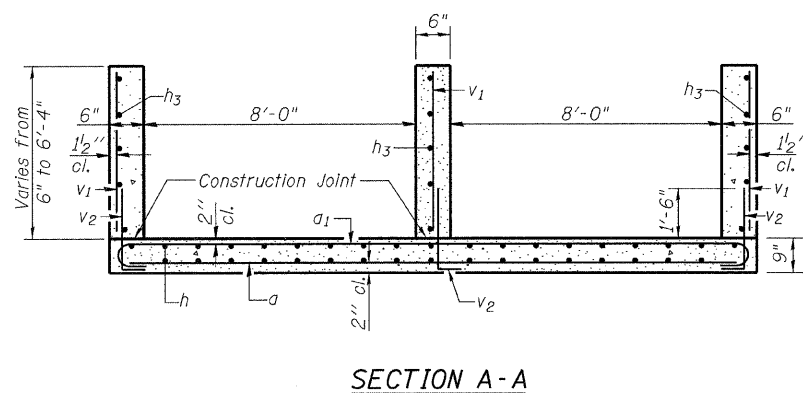
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3 5 SHEETS
FAP 505	**	WINNEBAGO	335	156	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract #64970
** (W-15d) T-1

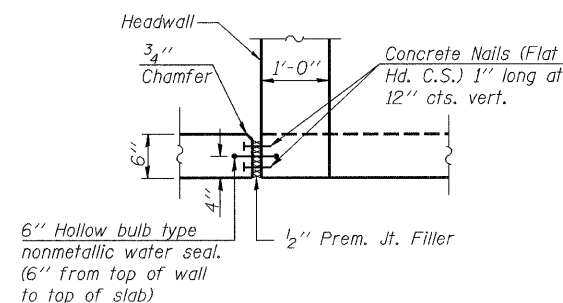


HALF SECTION THRU BARREL

HALF ELEVATION AT END OF BARREL

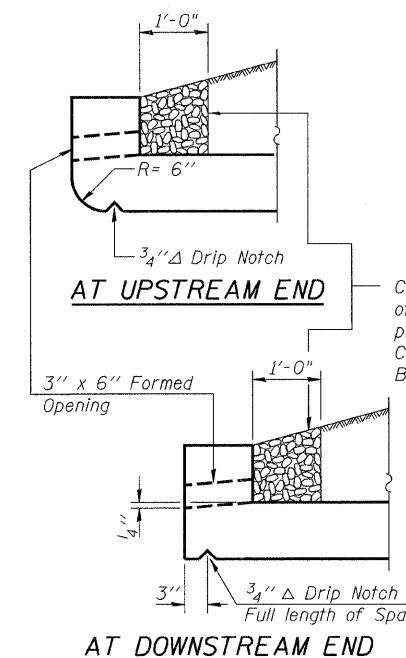


SECTION A-A

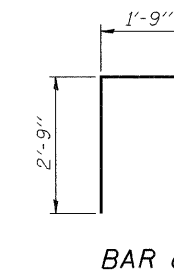


WATER SEAL JOINT DETAIL

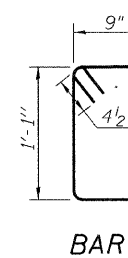
Cost of Water Seal Joint included with Concrete Box Culverts



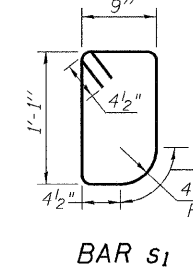
DRAIN DETAIL



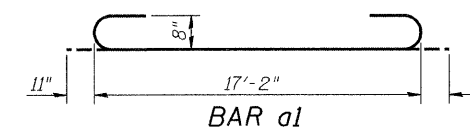
BAR d



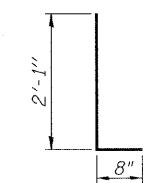
BAR s



BAR s1



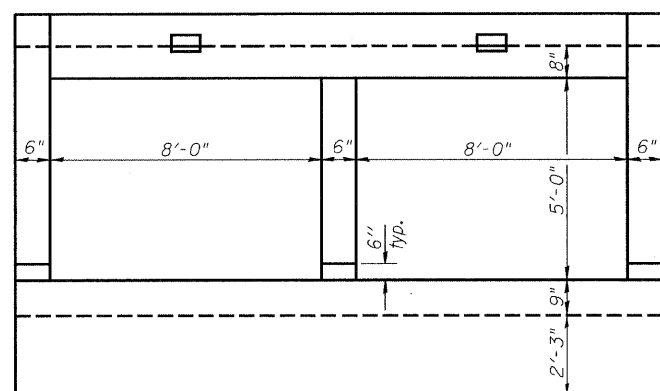
BAR a1



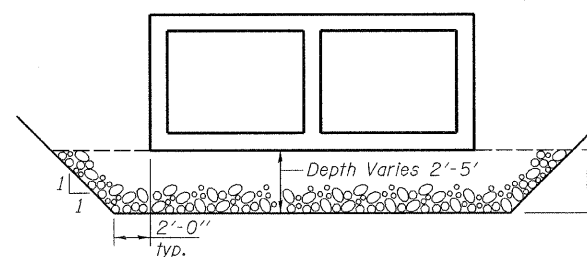
BAR v2

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	231	#8	17'-2"	—
a1	231	#8	19'-0"	—
d	36	#5	4'-6"	—
h	264	#6	31'-0"	—
h1	30	#5	30'-9"	—
h2	14	#6	19'-6"	—
h3	15	#5	35'-0"	—
s	20	#4	4'-5"	—
s1	20	#4	4'-3"	—
v	240	#4	6'-1"	—
v1	102	#4	7'-7"	—
v2	216	#4	2'-9"	—
Concrete Box Culverts			Cu. Yd.	113.1
Reinforcement Bars			Pound	38,700
Breaker Run Crushed Stone			Ton	921



END ELEVATION



BREAKER RUN CRUSHED STONE DETAIL

** See Schedule of Quantities on Sheet 23 of 335 for Removal of Unsuitable Material

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Wheaton, IL 60187

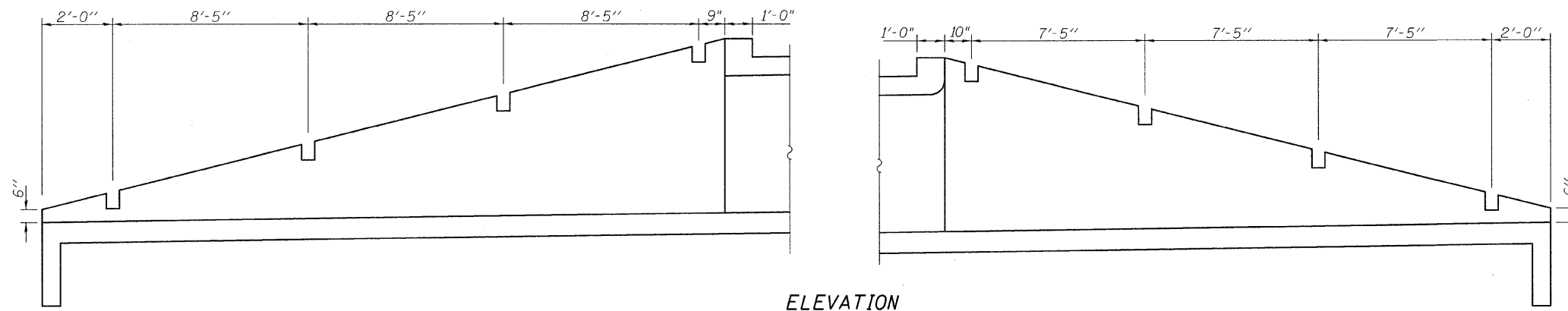
ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT DETAILS II
IL 75 OVER UNNAMED TRIBUTARY
TO SOUTH BRANCH OTTER CREEK
FAP RTE 505 - SECTION (W-15d)T-1
WINNEBAGO COUNTY
STATION 11075+29.29
STRUCTURE NO. 101-1082

DATE: 3/03/2009

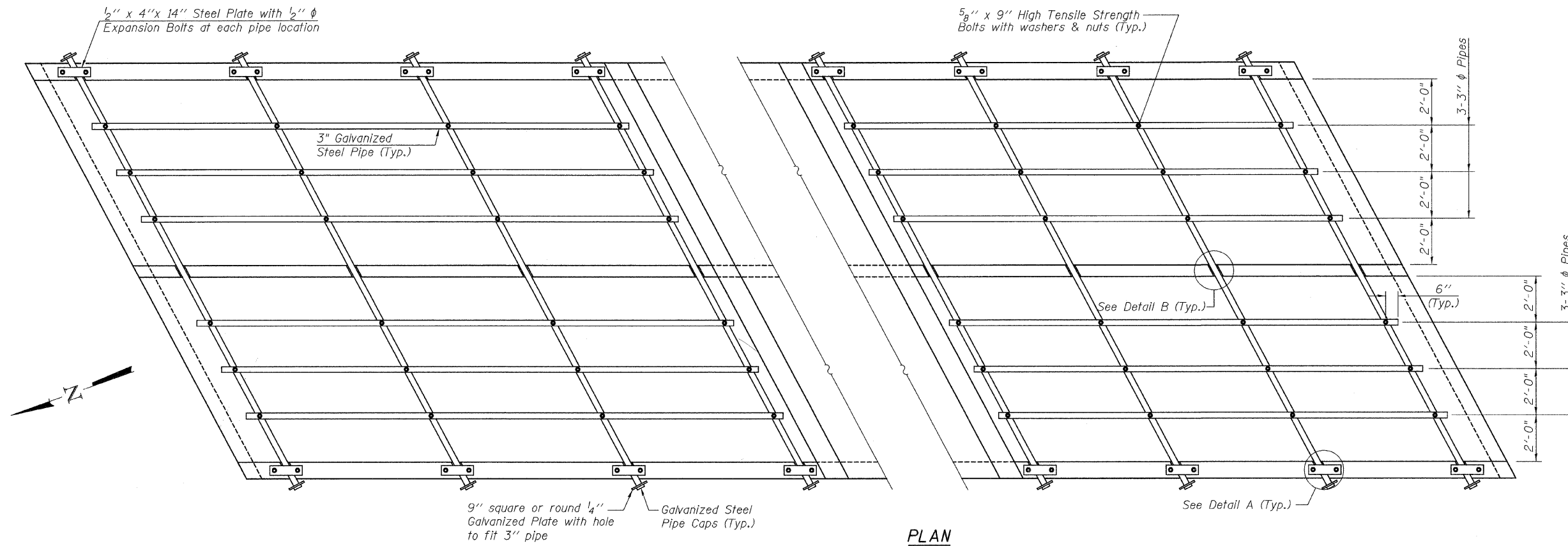
DRAWN BY JMT
CHECKED BY BLB

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO.
FAP 505	**	WINNEBAGO	335	157	4
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract #64970
 ** (W-15d) T-1



ELEVATION
 (Dimensions along centerline of culvert)



PLAN

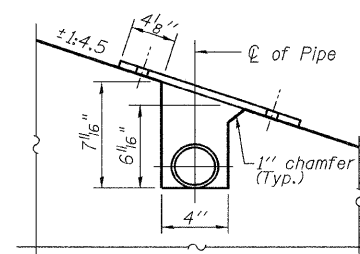
NOTES

Grating shall include pipes, plates, expansion bolts, and all other hardware as shown and shall be included with the contract unit price per Cu. Yd. for Concrete Box Culverts.

Bolts, Nuts, and Washers shall be in accordance with Article 1006.08 of the standard specification and shall be galvanized.

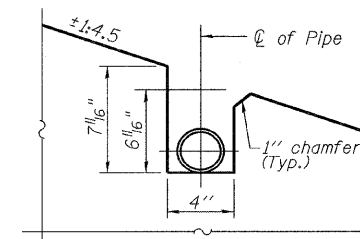
Steel Plates shall conform to AASHTO M-183 and shall be galvanized conforming to AASHTO M-111.

Steel pipes shall conform to A.S.T.M. A-53 (Type E or S) Grade B, Schedule 40, and shall be galvanized conforming to A.S.T.M. A-120. Contractor shall field verify pipe length.



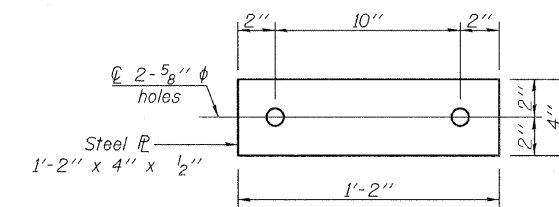
DETAIL A

Notch width perpendicular to pipe



DETAIL B

Notch width perpendicular to pipe



TOP ANCHOR PLATE

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200 West Front Street
 Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CULVERT DETAILS III
 IL 75 OVER UNNAMED TRIBUTARY
 TO SOUTH BRANCH OTTER CREEK
 FAP RTE 505 - SECTION (W-15d)T-1
 WINNEBAGO COUNTY
 STATION 11075+29.29
 STRUCTURE NO. 101-1082

DATE: 3/03/2009

DRAWN BY JMT
 CHECKED BY BLB

Contract #64970
** (W-15d) T-1



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation-D-2

SOIL BORING LOG

Page 1 of 1
Date 7/2/06

ROUTE FAP 505 DESCRIPTION P92-102-06 IL 75 box culvert, 0.3 m. E. of Weber Road LOGGED BY P. Drezzen

SECTION (W-15D)T-1 LOCATION Durand Twp. - 14 SE, SEC. , TWP. 28N, RNG. 10E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic


STRUCT. NO. 101-1043 Station _____

BORING NO. B-1b Station +16E
Offset 10.00ft S CL EB Lane
Ground Surface Elev. 99.70 ft

SOIL DESCRIPTION	DEPTH (ft)	B (ft)	U (ft)	M (%)	D E P T H	S T R U C T U R E	Surface Water Elev.		Stream Bed Elev.		Groundwater Elev.	
							ft	ft	ft	ft	ft	ft
MEDIUM black LOAM			0.5	22.0								
			P									
	97.70	1										
MEDIUM brown SILTY LOAM		2	0.5	27.0								
	96.20	4	P									
MEDIUM black SILTY LOAM		1										
	98.70	3	B									
MEDIUM gray SILTY CLAY		2										
	91.20	4	B	33.0								
SOFT gray SILTY CLAY		1										
	88.70	3	0.5	26.0								
		5	B									
SOFT gray SILTY CLAY		1										
	85.70	3	0.5	23.0								
		3	B									
MEDIUM tan SAND		2										
	83.70	5										
		11										
Wash		10										
MEDIUM tan SAND & GRAVEL with weathered LIMESTONE	81.20	11										
		13										
		18										

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

BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation-D-2

SOIL BORING LOG

Page 1 of 1
Date 7/2/06

ROUTE FAP 505 DESCRIPTION P92-102-06 IL 75 box culvert, 0.3 m. E. of Weber Road LOGGED BY P. Drezzen

SECTION (W-15D)T-1 LOCATION Durand Twp. - 14 SE, SEC. , TWP. 28N, RNG. 10E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic


STRUCT. NO. 101-1043 Station _____

BORING NO. B-2b Station +10 W
Offset 9.00ft N CL WB Lane
Ground Surface Elev. 99.70 ft

SOIL DESCRIPTION	DEPTH (ft)	B (ft)	U (ft)	M (%)	D E P T H	S T R U C T U R E	Surface Water Elev.		Stream Bed Elev.		Groundwater Elev.	
							ft	ft	ft	ft	ft	ft
SOFT black LOAM			0.3	19.0								
			P									
	97.70	2										
SOFT black LOAM		2	0.3	25.0								
	96.20	3	P									
MEDIUM brown SANDY LOAM		1										
	93.70	6	0.5	16.0								
		9	P									
MEDIUM black LOAM with 11% ORGANICS		1										
	91.20	3	P	56.0								
SOFT gray SILTY CLAY		2										
	88.70	3	0.5	27.0								
SOFT brown SILTY CLAY		2										
	86.20	3	0.5	24.0								
		5	P									
VERY SOFT brown SILTY CLAY with SAND lens		1										
	83.20	2		22.0								
		3										
MEDIUM tan SAND with weathered LIMESTONE	81.20	11										
		14										
		15										
		20										

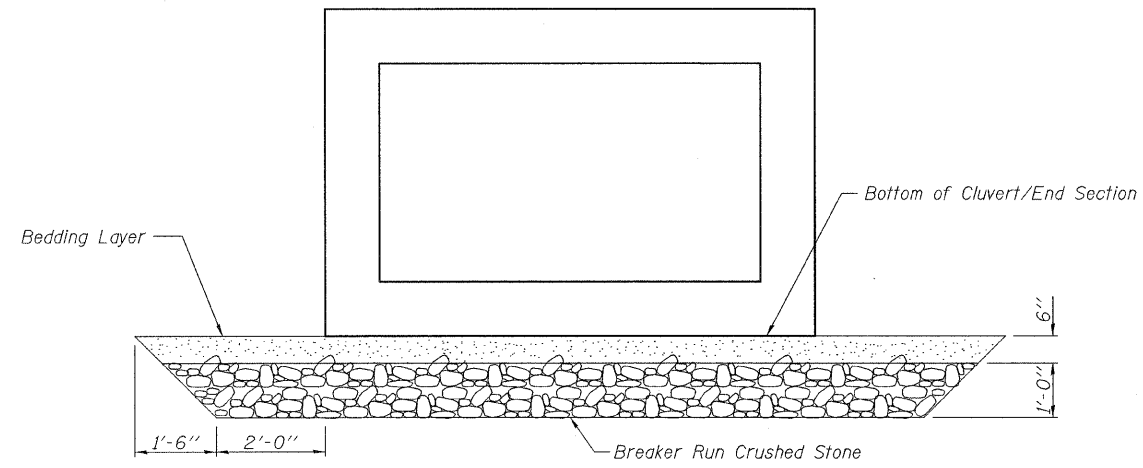
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

 Excellence through Ownership 200 West Front Street Wheaton, IL 60187	ILLINOIS DEPARTMENT OF TRANSPORTATION BORINGS IL 75 OVER UNNAMED TRIBUTARY TO SOUTH BRANCH OTTER CREEK FAP RTE 505 - SECTION (W-15d)T-1 WINNEBAGO COUNTY STATION 11075+29.29 STRUCTURE NO. 101-1082 DATE: 3/03/2009 DRAWN BY JMT CHECKED BY BLB
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. / SHEETS
FAP 505	**	WINNEBAGO	335	159	1 / SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

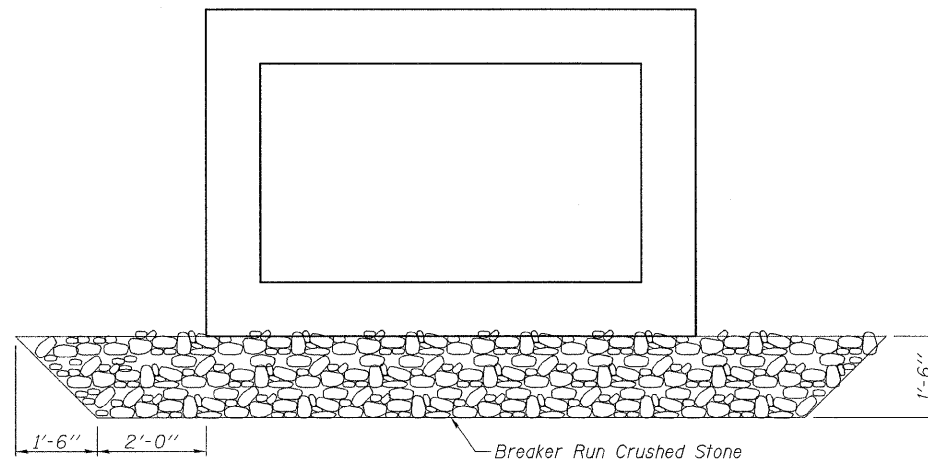
**109RS-2, Ya-15d-RS-1
Contract # 64237



PRECAST CONSTRUCTION

NOTE

Depth of Breaker Run Crushed Stone shall be verified in the field by the Geotechnical Engineer.



CAST-IN-PLACE CONSTRUCTION

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200 West Front Street
Wheaton, IL 60187

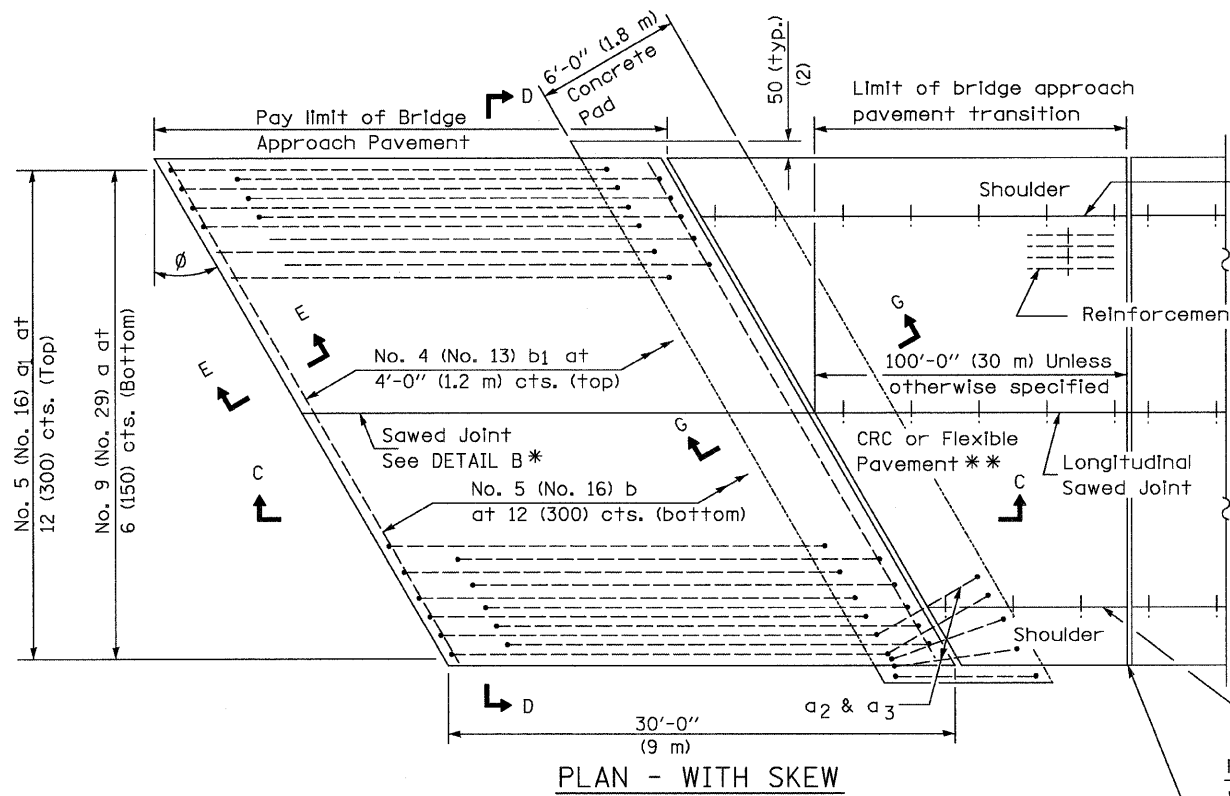
ILLINOIS DEPARTMENT OF TRANSPORTATION

BREAKER RUN CRUSHED STONE DETAIL
IL-75 OVER TRIBUTARY TO PECATONICA RIVER
FAP RTE 505 - SECTION 109RS-2, Ya-15d-RS-1
WINNEBAGO COUNTY

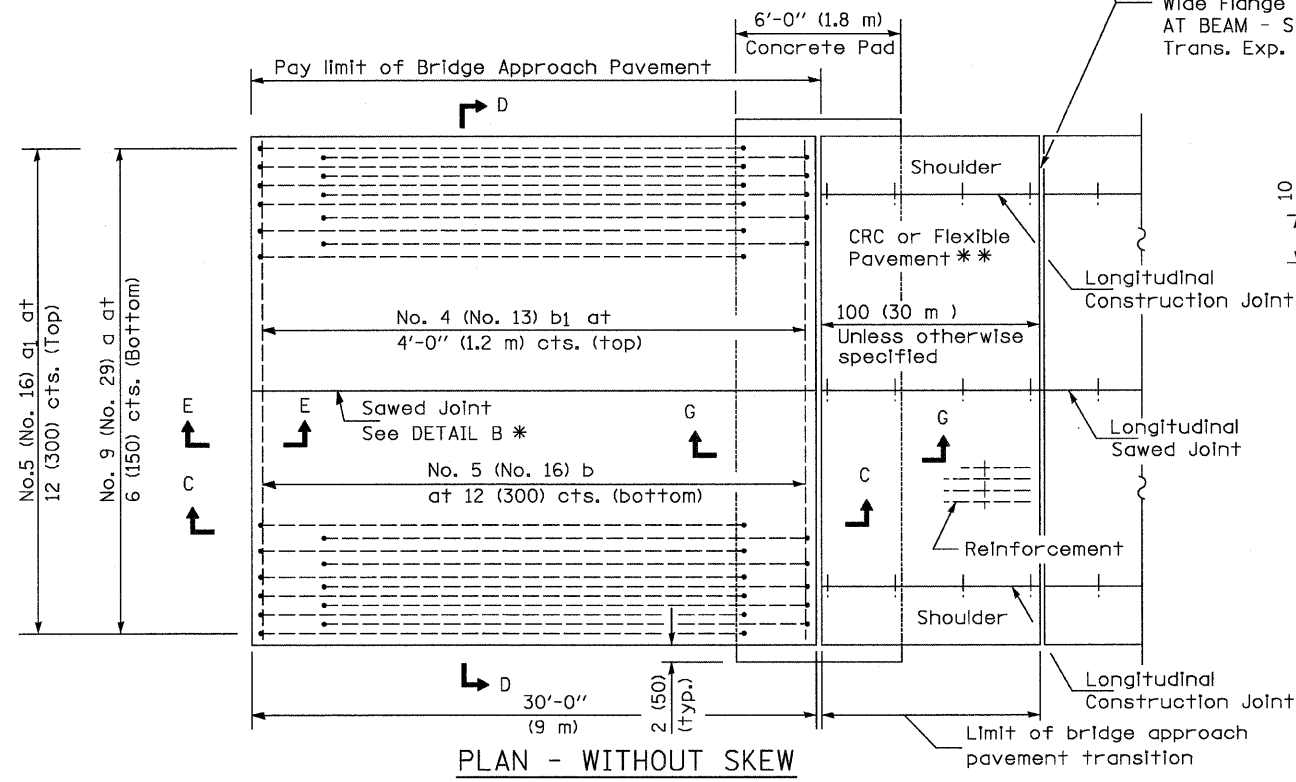
DATE: 3/03/2009

DRAWN BY JMT
CHECKED BY BLB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Yc-15d-RS-1, & (W-15d)T-1	STEPHENSON & WINNEBAGO	335	160
STA.		TO STA.		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 64970				



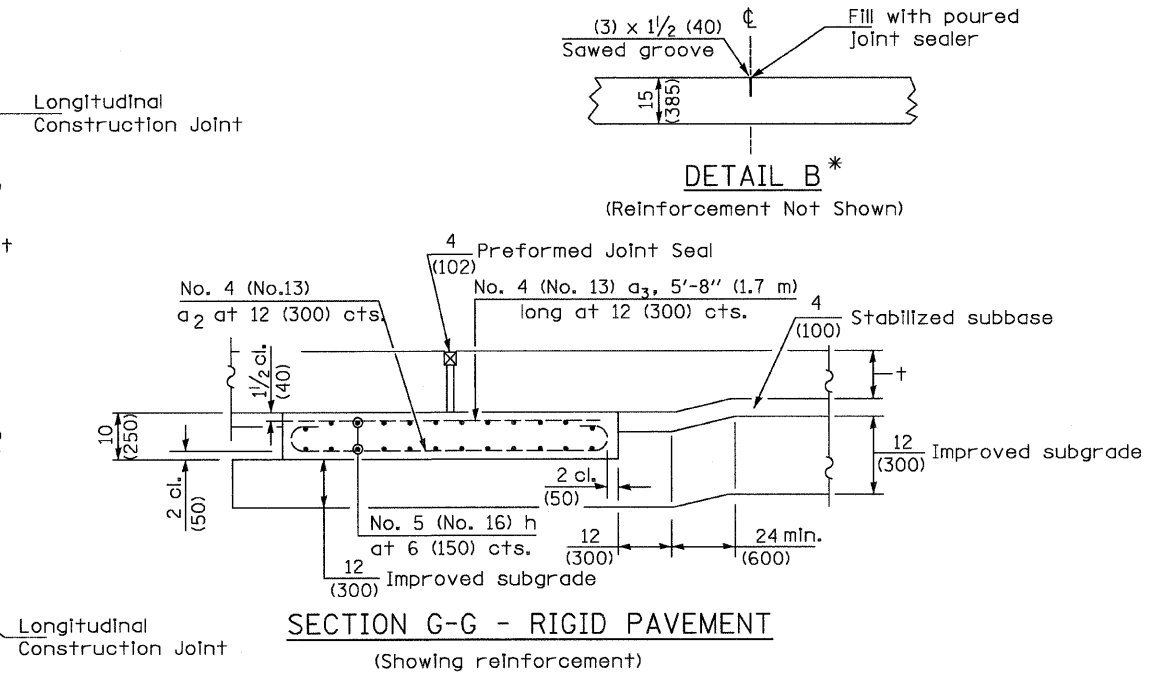
PLAN - WITH SKEW



PLAN - WITHOUT SKEW

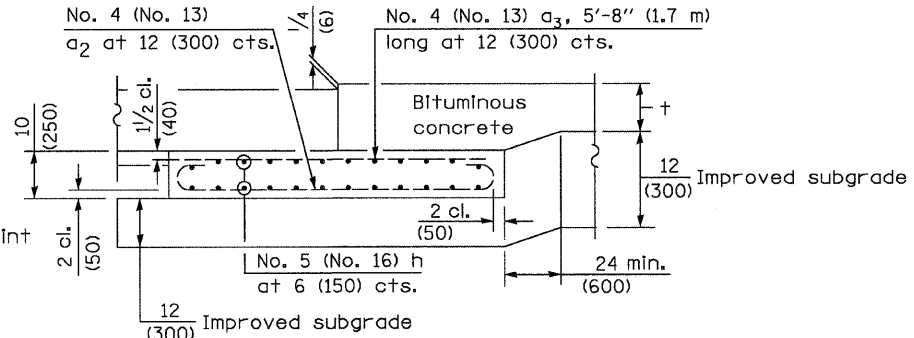
* Saw ∇ or lane edge if poured two or more lane widths at a time.
 ** Omit Reinforcement, tie bars and Long. sawed jt. for Flexible Pavement.

NEW CONSTRUCTION



SECTION G-G - RIGID PAVEMENT
(Showing reinforcement)

Rigid Pavement only:
 Wide Flange Beam Terminal Joint (See DETAIL AT BEAM - Standard 421101 or 421106) or 2 (50)
 Trans. Exp. Joint as detailed on Standard 420001.



SECTION G-G - FLEXIBLE PAVEMENT
(Showing reinforcement)

GENERAL NOTES

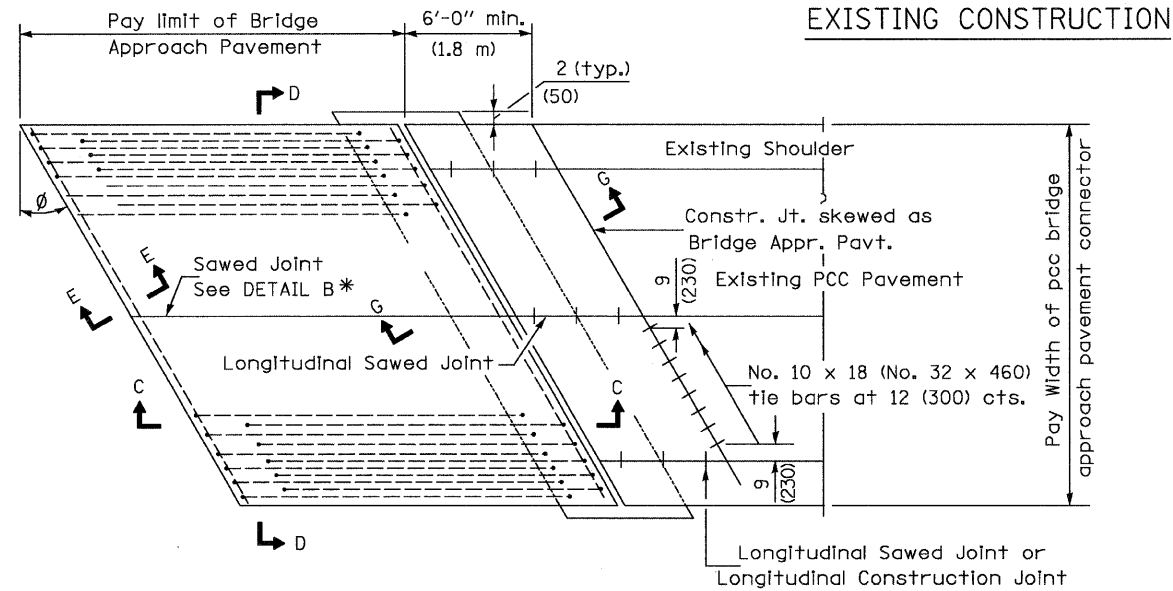
THICKNESS-"t"=Thickness of Pavement.
 See Standard 421001 for reinforcement details not shown.
 See Standard 420001 for joint details not shown.
 All dimensions are in inches (millimeters) unless otherwise shown.

REVISIONS	
NAME	DATE

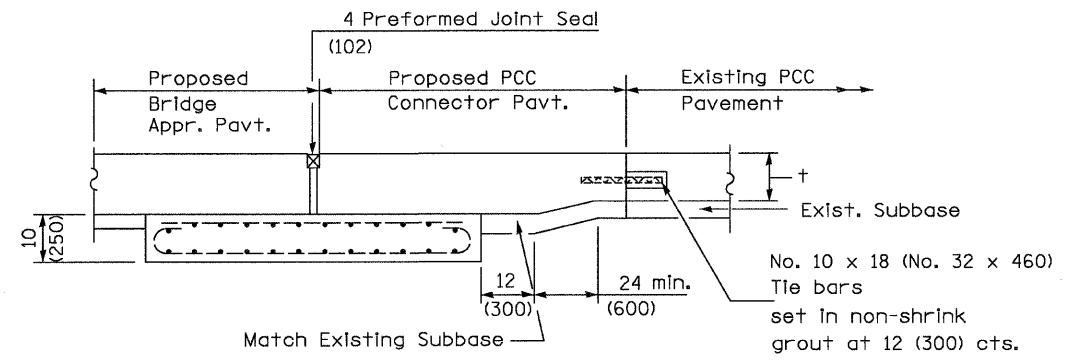
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.P. ROUTE 505 (IL 75)
ILLINOIS ROUTE 75
BRIDGE APPROACH PAVEMENT DETAILS
 (SHEET 1 of 4)
 SCALE: VERT. HORIZ.
 DATE: 3/3/09
 DRAWN BY MTH
 CHECKED BY SPF

PLOT DATE = 3/2/2009
 FILE NAME = K:\111RS-4, 111BR-1, Yc-15d-RS-1, & (W-15d)T-1\75-3P_East_CADD_Design\195881_BridgeApproachPmt.dgn
 PLOT SCALE = 1/8" = 1'-0"
 MODEL = S:\Process\111RS-4, 111BR-1, Yc-15d-RS-1, & (W-15d)T-1\75-3P_East_CADD_Design\195881_BridgeApproachPmt.dgn
 SHEET = 1

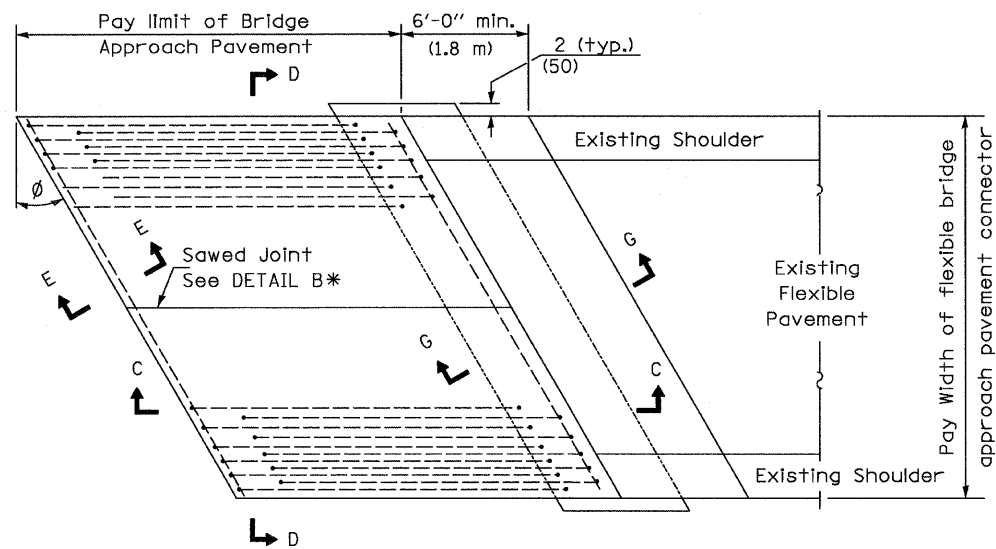
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	111RS-4, 111BR-1, Y-15d-RS-1, & (W-15d)T-1	STEPHENSON & WINNEBAGO	335	161
STA.		TO STA.		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 64970				



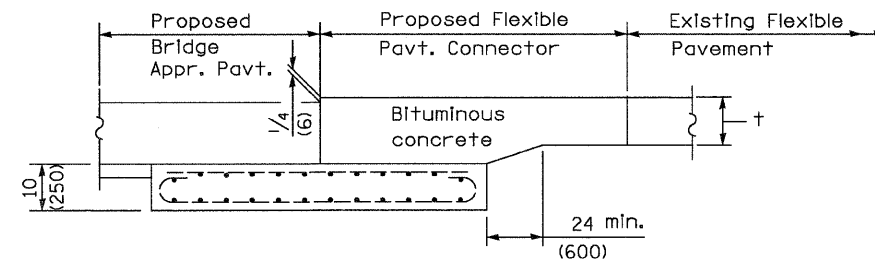
BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)



SECTION G-G - RIGID PAVEMENT



BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)



SECTION G-G - FLEXIBLE PAVEMENT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 505 (IL 75)

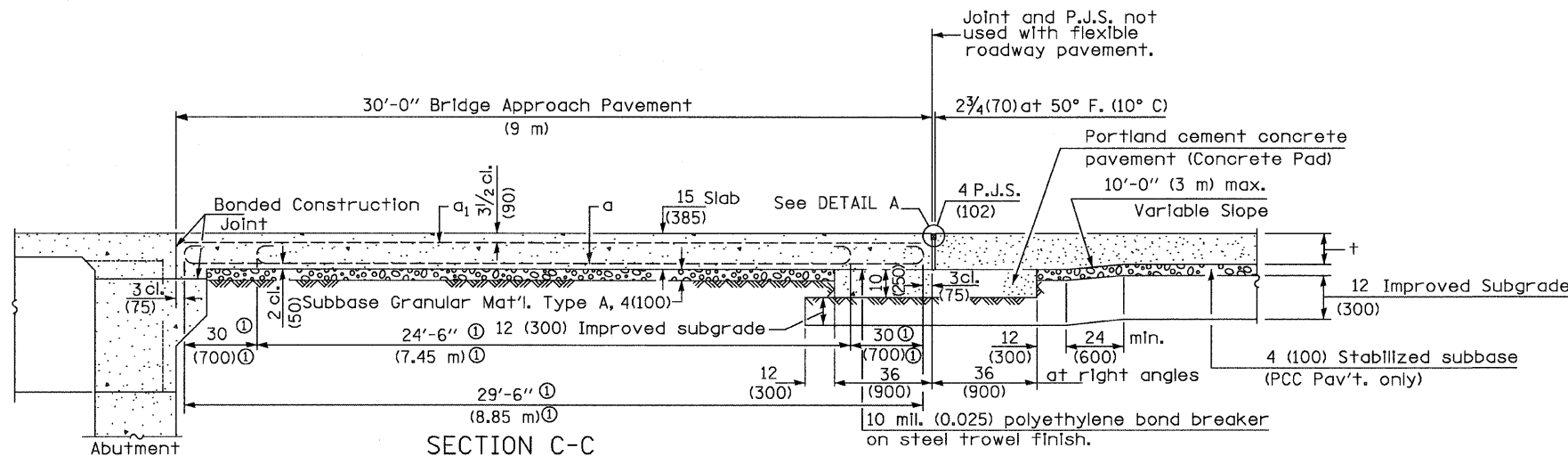
**ILLINOIS ROUTE 75
BRIDGE APPROACH PAVEMENT DETAILS**
(SHEET 2 of 4)

SCALE: VERT.
HORIZ.
DATE: 3/3/09

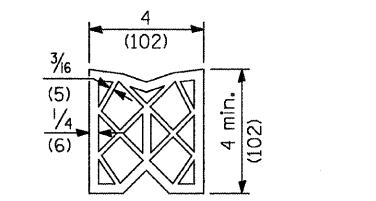
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 MODEL = Sheet 2

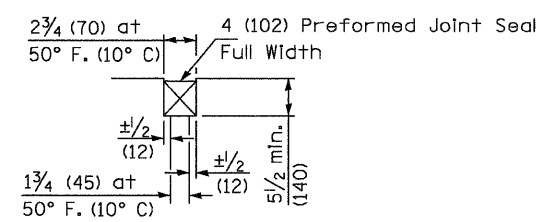
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STA.	TO STA.			
FED. ROAD DIST. NO. 2	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 64970				



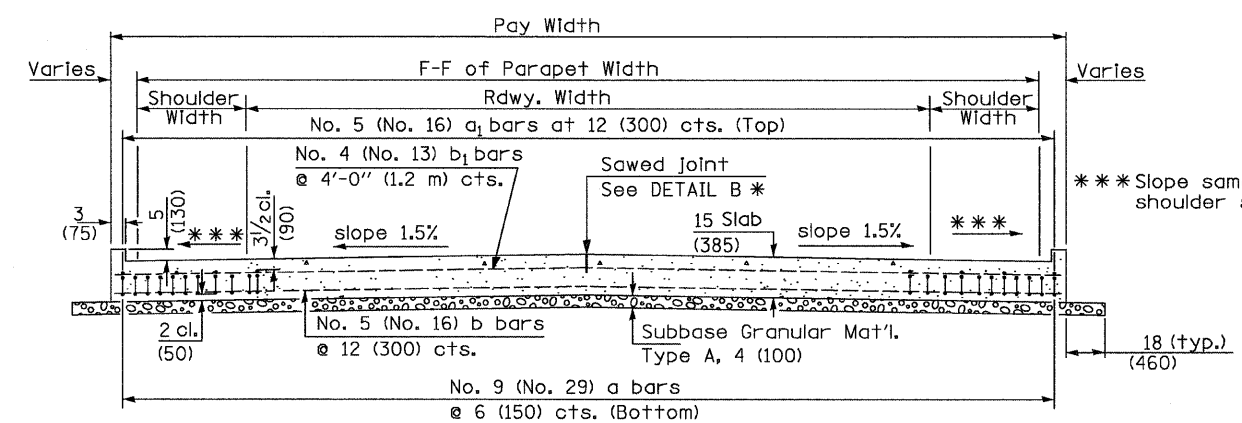
① Stagger No. 9 (No. 29) a bars as shown on plan - full width



PREFORMED JOINT SEAL



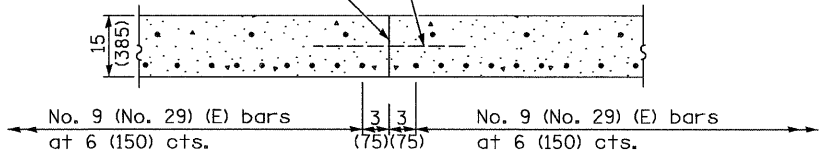
DETAIL A



SECTION D-D

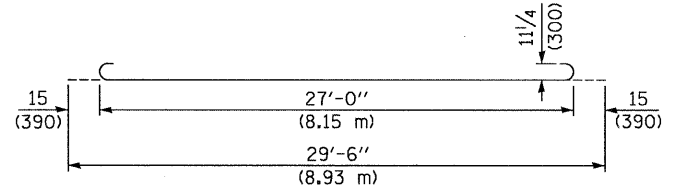
(See Plan for Dimensions not shown)

Longitudinal Construction Joint in accordance with details shown on Standard 420001.

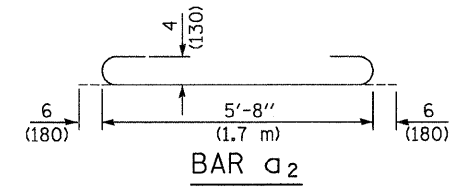


OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

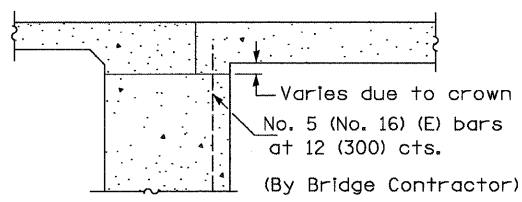
As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joints shall be located at the edge of a traffic lane.



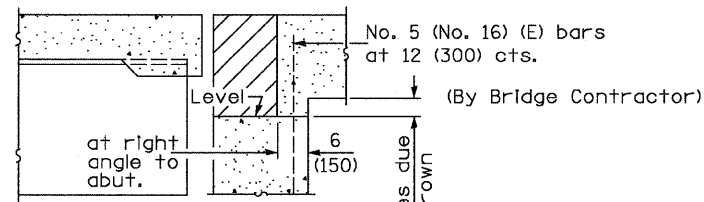
BAR a



BAR a2



SECTION E-E (Integral Abutments)



SECTION E-E (Jointed Abutments)

DESIGN STRESSES

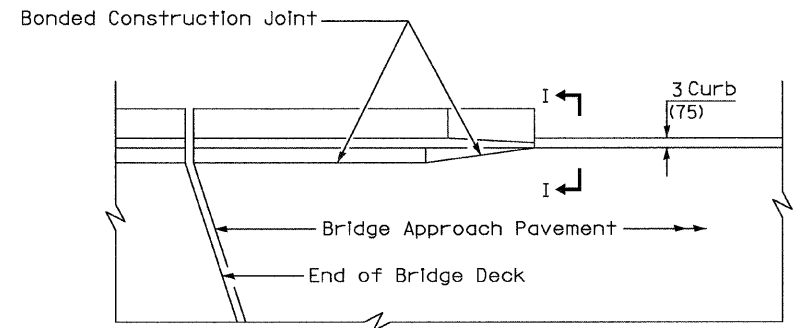
fy = 60,000 p.s.i. (400 MPa)
f'c = 3,500 p.s.i. (24 MPa)
n = 8.5

REVISIONS	
NAME	DATE

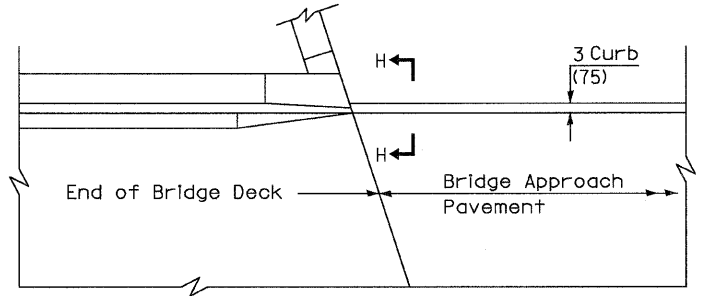
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 505 (IL 75)
**ILLINOIS ROUTE 75
BRIDGE APPROACH PAVEMENT DETAILS**
(SHEET 3 of 4)
SCALE: VERT. DRAWN BY MTH
 HORIZ. CHECKED BY SPF
DATE: 3/3/09

PLOT DATE = 3/2/2009
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 MODEL

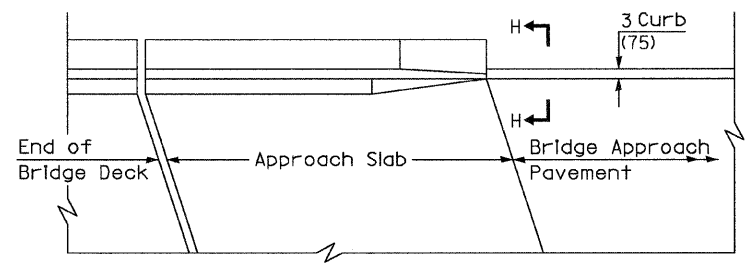
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STA.		TO STA.		
FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 64970				



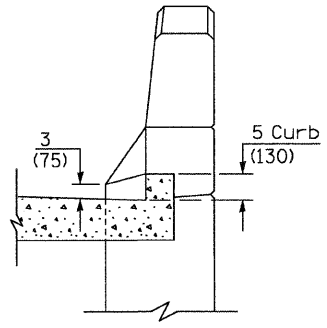
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PILE BENT ABUTMENT



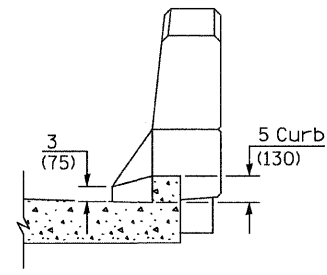
PARAPET TO CURB TRANSITION
INTEGRAL ABUTMENT



PARAPET TO CURB TRANSITION
VAULTED ABUTMENT



SECTION I - I



SECTION H - H

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 505 (IL 75)

ILLINOIS ROUTE 75
BRIDGE APPROACH PAVEMENT DETAILS
(SHEET 4 of 4)

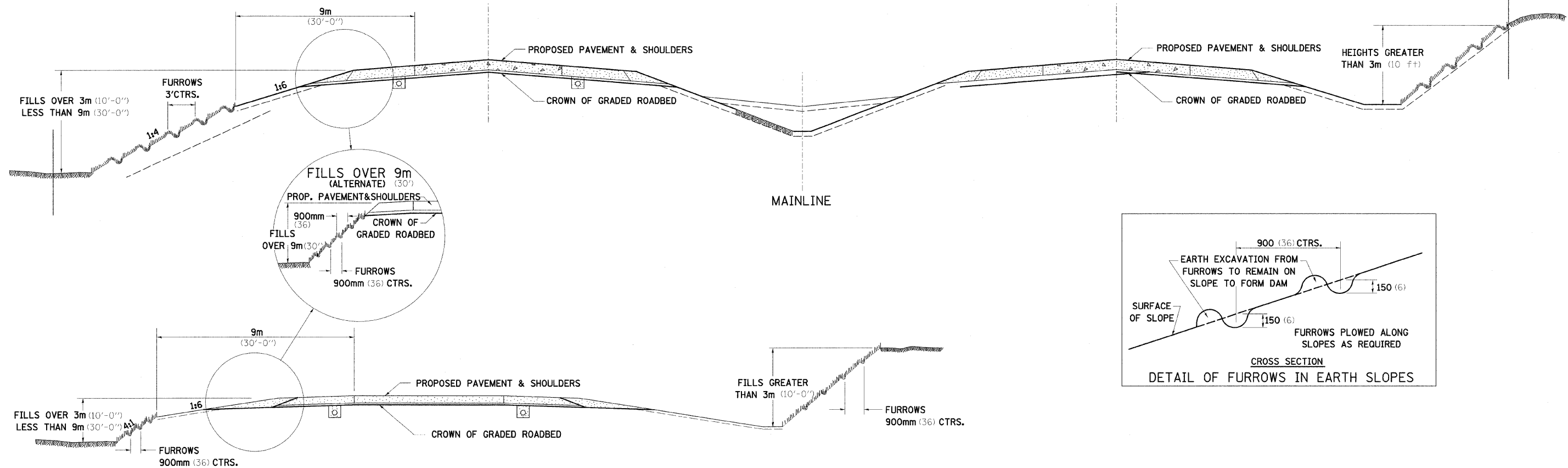
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DATE: 3/3/09

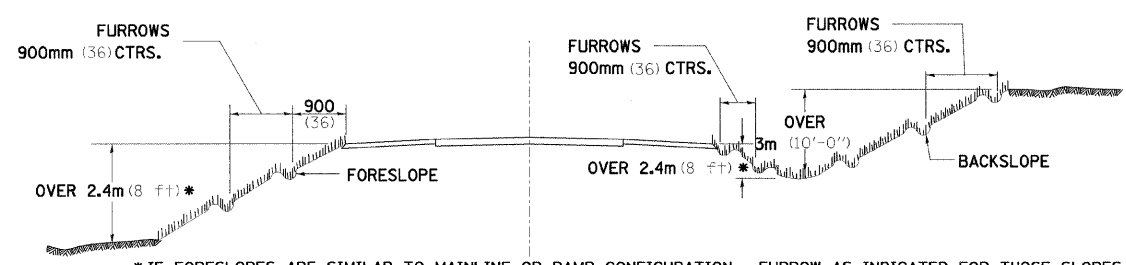
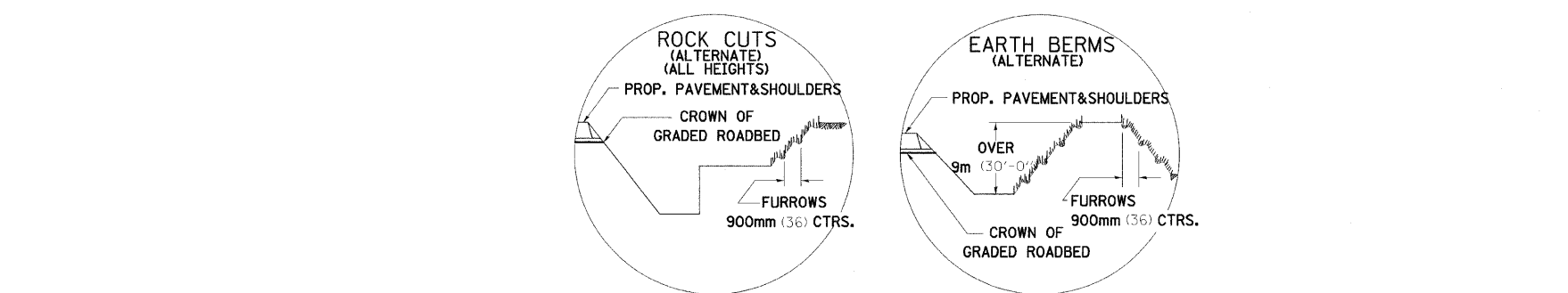
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 MODEL =

TYPICAL FURROWED ROADWAY SLOPES



RAMPS



* IF FORESLOPES ARE SIMILAR TO MAINLINE OR RAMP CONFIGURATION, FURROW AS INDICATED FOR THOSE SLOPES.

CROSSROAD GRADE SEPERATIONS

GENERAL NOTES

- IN GENERAL, THE ENTIRE EARTH SURFACE WITHIN THE RIGHT-OF-WAY SHALL BE SEEDING AND MULCHED.
- NO AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO THE GRADED ROADBED.
- FORESLOPES AND/OR BACKSLOPES 3m (10 ft) OR LESS IN HEIGHT WILL NOT REQUIRE FURROWING UNLESS OTHERWISE NOTED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
- FORESLOPES AND/OR BACKSLOPES OVER 3m (10 ft) IN HEIGHT SHALL BE FURROWED. THE OPERATION SHALL INCLUDE FINISHING THE SLOPES TO FINAL LINE AND GRADE, AS SHOWN ON THE CROSS SECTIONS BEFORE FURROWING IS DONE. FURROWS SHALL BE PLOWED ALONG A LEVEL LINE CONFORMING TO THE CONTOURS OF THE SLOPE. THE COST OF FURROWING SHALL BE CONSIDERED INCLUDED IN THE PROJECT COST AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

SEQUENCE AND OPERATION FOR SEEDING, MULCHING AND FURROWING OF ROADWAY SLOPES:

1. SPREAD FERTILIZER.
2. PERFORM THE OPERATION OF GROUND PREPARATION.
3. PLOW FURROWS.
4. PERFORM THE OPERATION OF SEEDING. THE SEED SHALL BE SOWN ON THE SURFACE OF THE PREPARED GROUND AFTER FURROWING.
5. THE OPERATION OF COVERING THE SEED, BY HARROWING OR OTHER MEANS, SHALL BE PERFORMED ONLY IF SO DIRECTED BY THE ENGINEER AND SHALL BE INCLUDED TO THE ITEM OF SEEDING.
6. SECTION 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS NOTED HEREIN.

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

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		DATE -	REVISED -			FED. ROAD DIST. NO. 2 (ILLINOIS) FED. AID PROJECT					

STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME: THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF INTERSECTION RECONSTRUCTION, CULVERT REPLACEMENT, BRIDGE REPLACEMENT & ROADWAY RESURFACING

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

THE SEQUENCE OF EVENTS ARE AS FOLLOW: CLEARING, EMBANKMENT, EXCAVATION, GRADING AND PAVING. THIS PROJECT WILL BE CONSTRUCTED IN SEGMENTS AS SHOWN IN THE "STAGING PLANS".

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 118 ACRES
PROPOSED R.O.W (TOTAL PARCEL AREA) 14 ACRES
DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 21 ACRES

SUPPORTING REPORTS AND PLANS

THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

SOIL PROFILE SHEETS, SOILS REPORTS, BORING LOGS
USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE
ROCK RUN CREEK

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES

STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

STABILIZATION PRACTICES DURING CONSTRUCTION:

AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.

MAINTENANCE AFTER FINAL GRADING

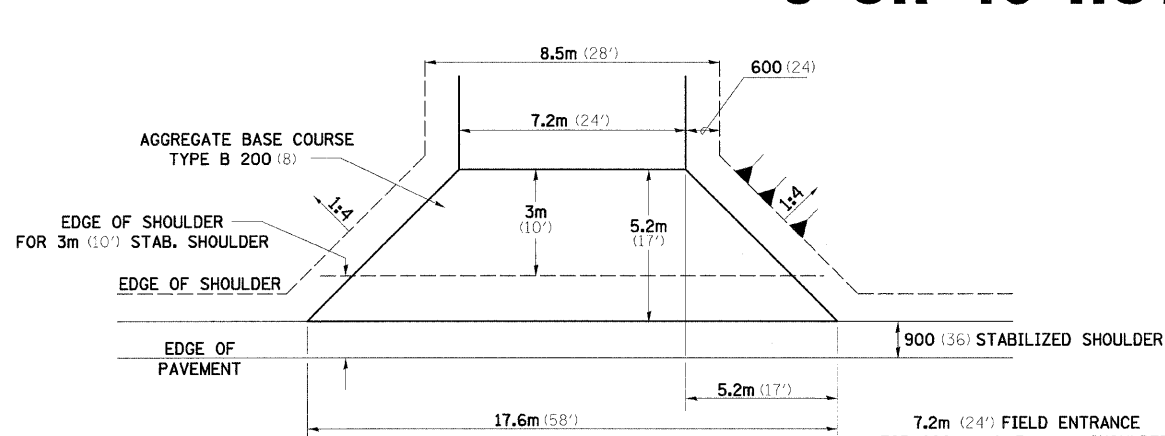
TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDER AND ESTABLISHED WITH THE PROPER STAND. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEEDER.

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	PLOT DATE = 3/2/2009	CHECKED -	REVISED -								CONTRACT NO. 64970
		DATE -	REVISED -								

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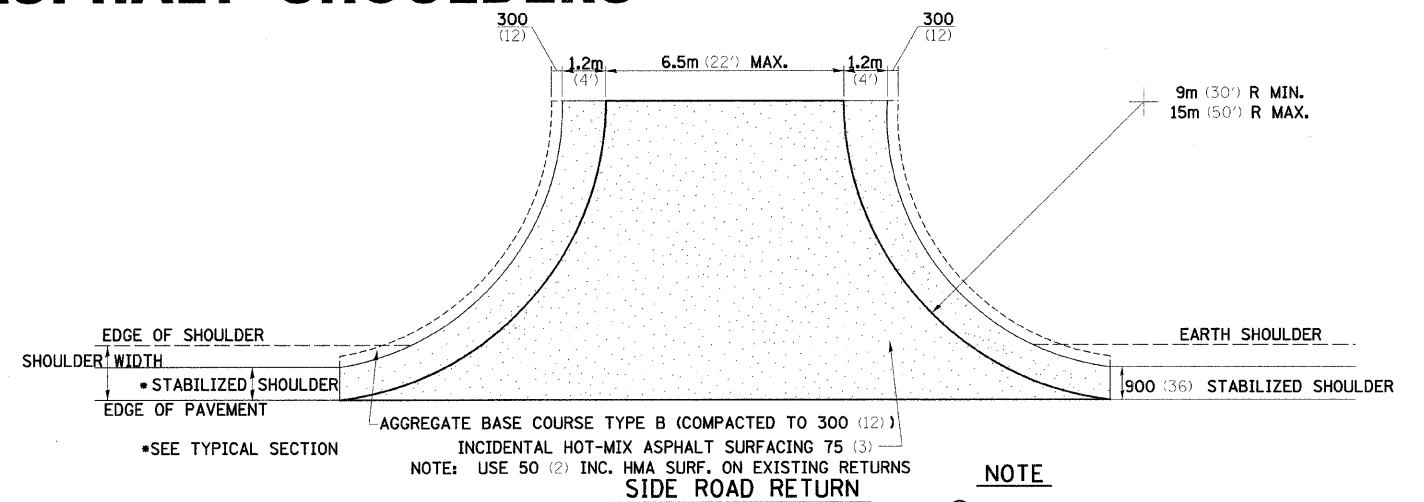
ENTRANCES, SIDEROADS, AND MAILBOX RETURNS WITH 3' OR 10' HOT-MIX ASPHALT SHOULDERS



FIELD ENTRANCE

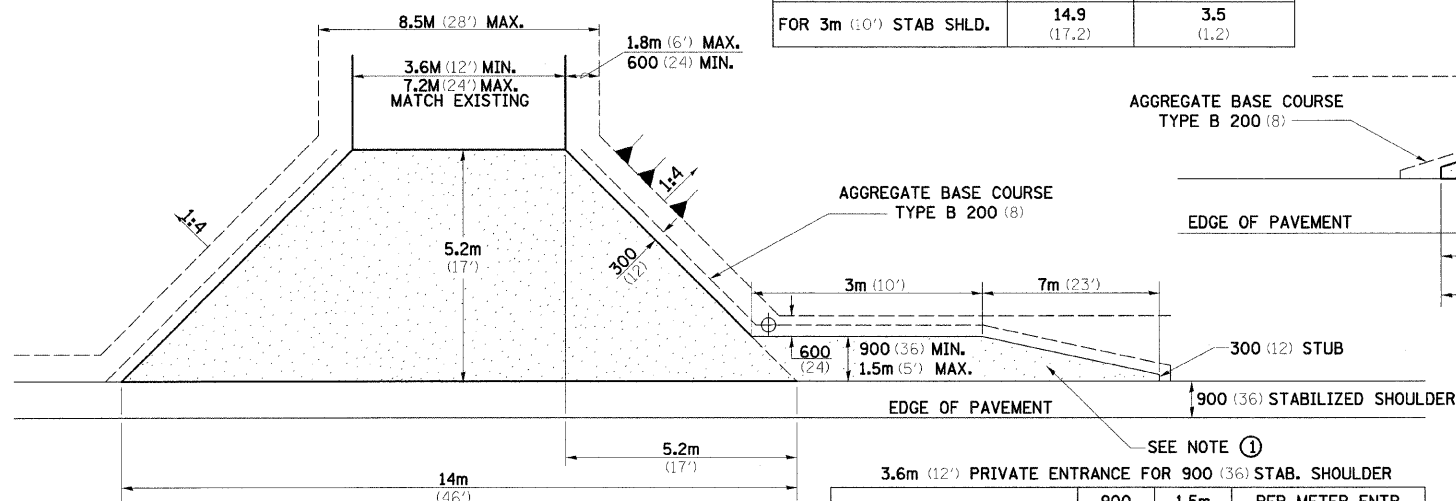
7.2m (24') FIELD ENTRANCE
FOR 900 (36) & 3m (10') SHOULDERS

AGG BASE CSE TYPE B M TON (TON)	APRON M TON (TON)	PER METER (FOOT) ADD. RUN
FOR 900 (36) STAB SHLD.	31.3 (35.3)	3.5 (1.2)
FOR 3m (10') STAB SHLD.	14.9 (17.2)	3.5 (1.2)



NOTE

- ① ALL ENTRANCES TO BE CONSTRUCTED WITH AN 8" AGGREGATE BASE COURSE, TYPE B AND WITH A 2" INCIDENTAL HOT-MIX ASPHALT SURFACING, UNLESS OTHERWISE NOTED.
- ② TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
- ③ ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
- ④ FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN WHICH EVER IS GREATER.
- ⑤ QUANTITIES SHOWN ARE FOR NEW CONSTRUCTION.
- ⑥ ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



PRIVATE ENTRANCE FOR 900 (36) STAB. SHOULDERS

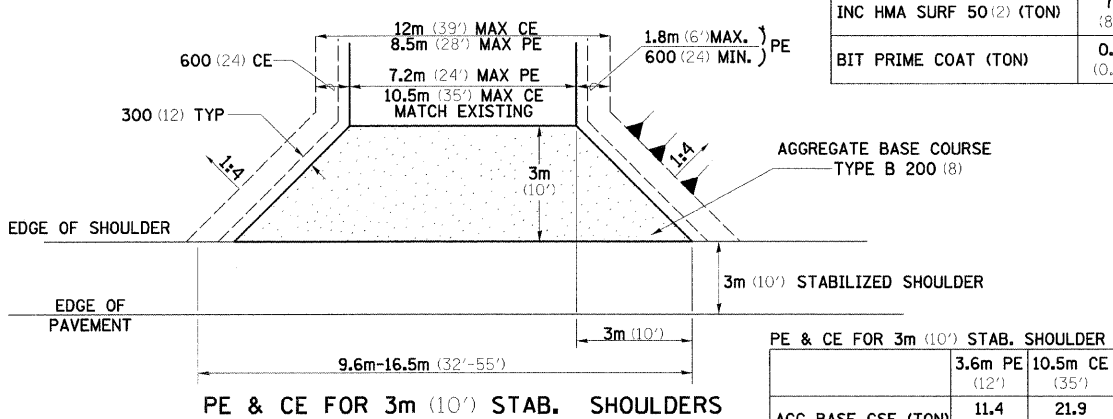
3.6m (12') PRIVATE ENTRANCE FOR 900 (36) STAB. SHOULDERS

	900 (36)	1.5m (5')	PER METER ENTR (FOOT)
AGG BASE CSE (TON)	29.4 (32.4)	30.8 (33.9)	0.64 (0.7)
INC HMA SURF 50 (2) (TON)	7.8 (8.6)	8.4 (9.3)	0.17 (0.19)
BIT PRIME COAT (TON)	0.08 (0.09)	0.09 (0.10)	0.006 (0.002)

SEE NOTE ①

3.6m (12') PRIVATE ENTRANCE FOR 900 (36) STAB. SHOULDERS

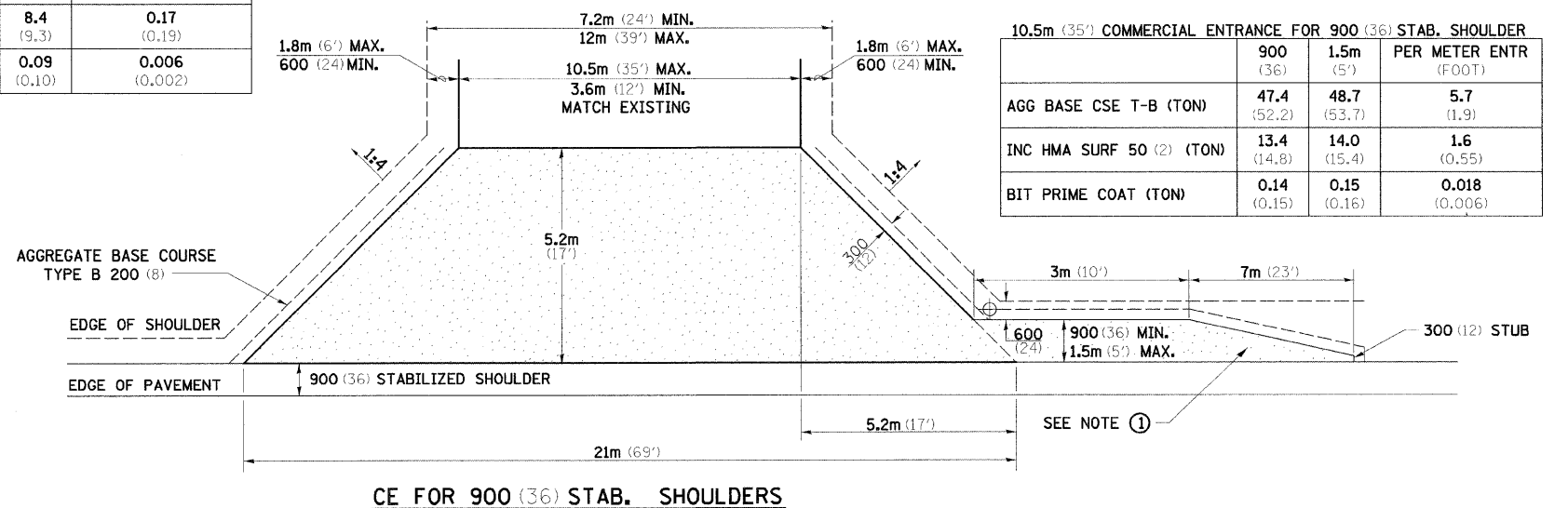
	900 (36)	1.5m (5')	PER METER ENTR (FOOT)
AGG BASE CSE T-B (TON)	10.7 (11.8)	14.4 (15.9)	
INC BIT SURF 50 (2) (TON)	2.2 (2.4)	3.4 (3.8)	
BIT PRIME COAT (TON)	0.02 (0.02)	0.04 (0.04)	



PE & CE FOR 3m (10') STAB. SHOULDERS

PE & CE FOR 3m (10') STAB. SHOULDERS

	3.6m PE (12')	10.5m CE (35')
AGG BASE CSE (TON)	11.4 (12.6)	21.9 (24.2)
INC HMA SURF (TON)	3.1 (3.4)	6.3 (7.0)
PRIME (TON)	0.04 (0.04)	0.06 (0.07)



CE FOR 900 (36) STAB. SHOULDERS

10.5m (35') COMMERCIAL ENTRANCE FOR 900 (36) STAB. SHOULDERS

	900 (36)	1.5m (5')	PER METER ENTR (FOOT)
AGG BASE CSE T-B (TON)	47.4 (52.2)	48.7 (53.7)	5.7 (1.9)
INC HMA SURF 50 (2) (TON)	13.4 (14.8)	14.0 (15.4)	1.6 (0.55)
BIT PRIME COAT (TON)	0.14 (0.15)	0.15 (0.16)	0.018 (0.006)

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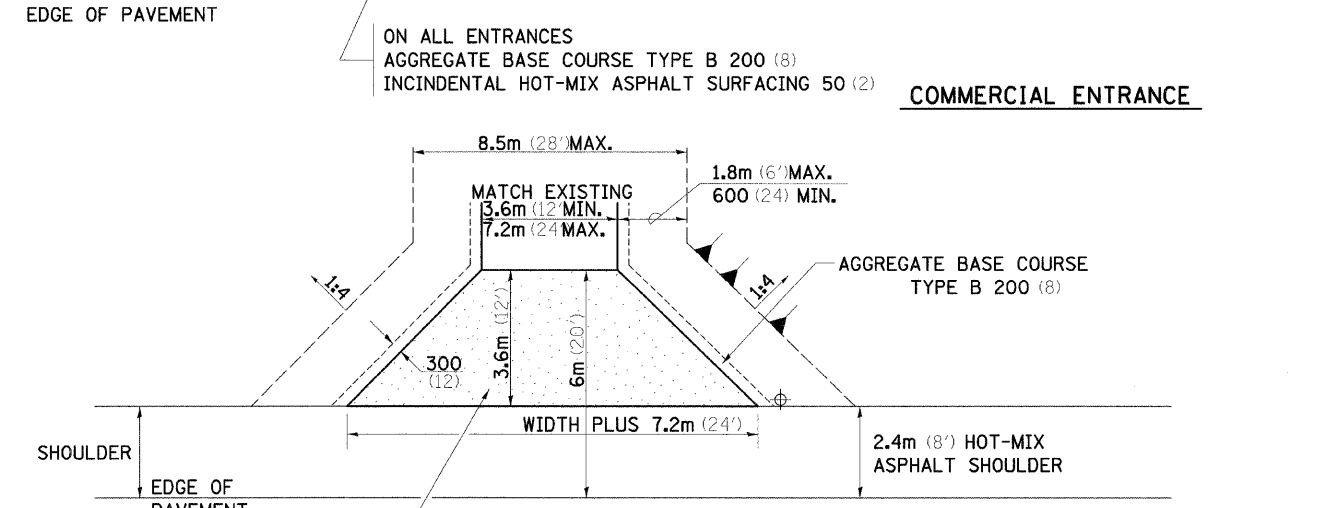
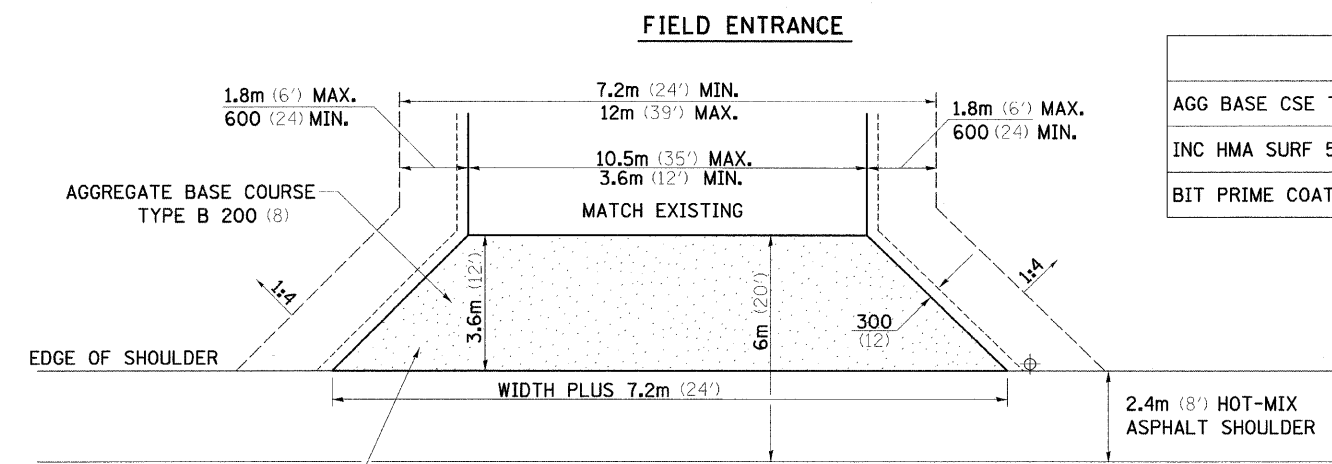
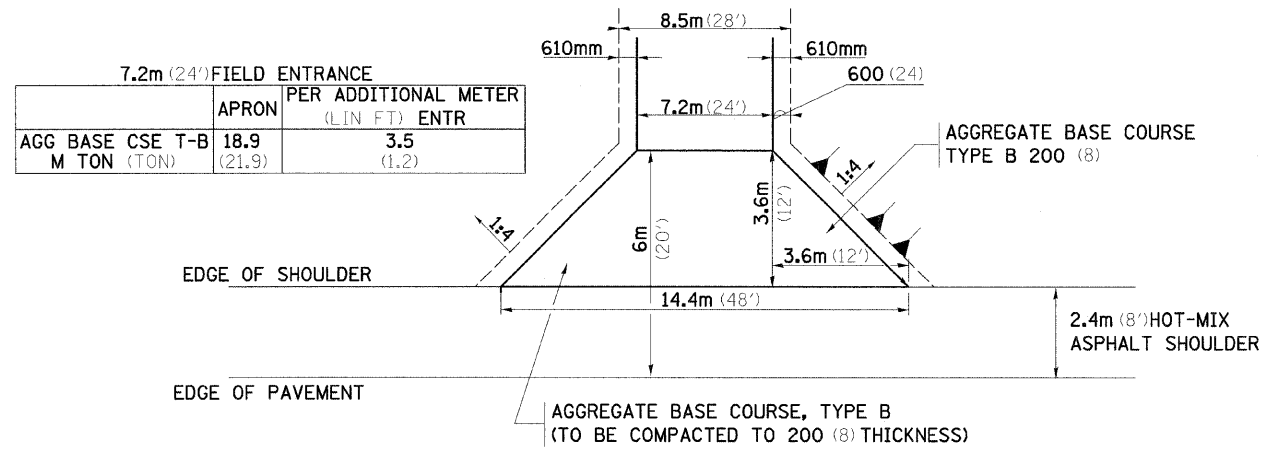
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD

SCALE: 1:50 SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 505	SECTION	COUNTY STEPHENSON	TOTAL SHEETS 335	SHEET NO. 166
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64970	

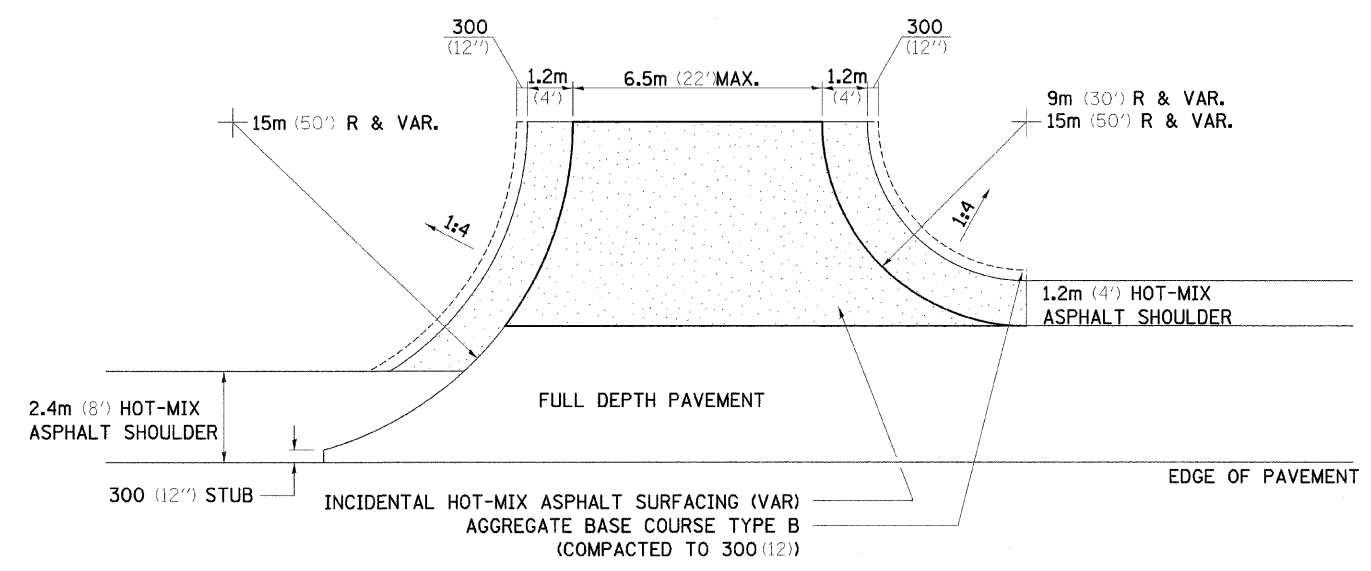
ENTRANCE AND SIDEROADS WITH 2.4m (8') HOT-MIX ASPHALT SHOULDERS



	COMMERCIAL ENTRANCE		PER METER ENTR (FOOT)	
	3.6m (12')	10.5m (35')	3.6m (12')	10.5m (35')
AGG BASE CSE T-B (TON)	14.3 (15.8)	27.0 (29.8)	0.64 (0.70)	1.70 (1.87)
INC HMA SURF 50 (2) (TON)	3.3 (3.6)	6.35 (7.0)	0.14 (0.15)	0.40 (0.44)
BIT PRIME COAT (TON)	0.042 (0.046)	0.082 (0.090)	0.002 (0.002)	0.005 (0.006)

	3.6m (12') PRIVATE ENTRANCE		PER METER ENTR (FOOT)	
	3.6m (12')	7.2m (24')	3.6m (12')	7.2m (24')
AGG BASE CSE T-B (TON)	14.3 (15.8)	21.0 (23.1)	0.64 (0.70)	1.20 (1.32)
INC HMA SURF 50 (2) (TON)	3.3 (3.6)	4.9 (5.4)	0.14 (0.15)	0.27 (0.30)
BIT PRIME COAT (TON)	0.042 (0.046)	0.063 (0.069)	0.002 (0.002)	0.004 (0.004)

- NOTE**
- ALL PE & CE ARE TO BE INCIDENTAL HOT-MIX ASPHALT SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
 - FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
 - QUANTITIES ARE CALCULATED WITH 2.4m HOT-MIX ASPHALT SHOULDER IN PLACE. AGGREGATE QUANTITIES SHOWN ARE FOR NEW CONSTRUCTION.
 - EXCAVATION REQUIRED FOR PLACEMENT OF AGGREGATE BASE COURSE SHALL BE CONSIDERED INCLUDED TO THE AGGREGATE BASE COURSE.
 - ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



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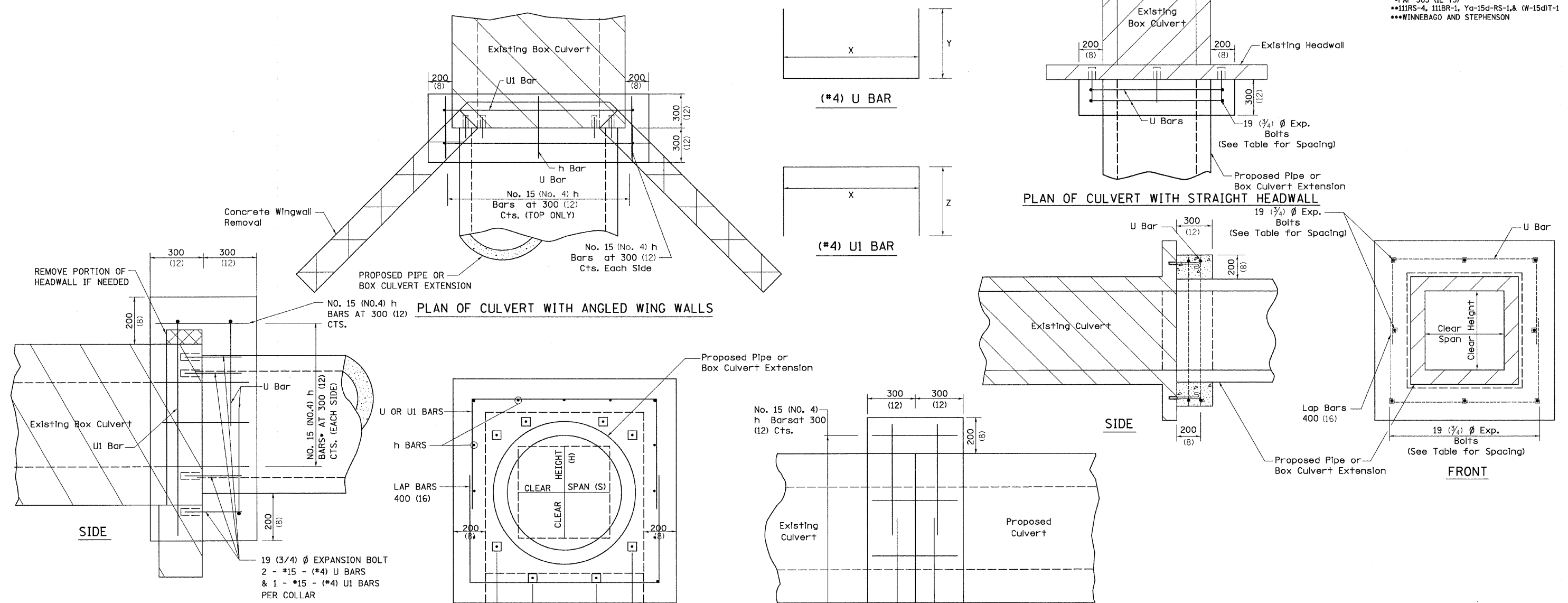
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		CHECKED -	REVISED -							
		DATE -	REVISED -							

CONCRETE COLLARS FOR PIPE OR BOX CULVERT EXTENSIONS

CONTRACT NO. 64970

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	***	335	168
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

•FAP 505 (IL 75)
 •111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1
 ••WINNEBAGO AND STEPHENSON



PLACEMENT DETAILS FOR EXPANSION BOLTS

H OR S	NUMBER OF EXPANSION BOLTS REQUIRED PER SIDE			
	EXTENSIONS < 4.57m (15')		EXTENSIONS > 4.57m (15')	
	NUMBER	SPACING	NUMBER	SPACING
600 (24)	*		*	
750 (30)	2	450 (18)	2	450 (18)
900 (36)	2	600 (24)	2	600 (24)
1200 (48)	3	450 (18)	3	450 (18)
1500 (60)	4	400 (16)	3	600 (24)
1800 (72)	5	375 (15)	4	500 (20)
2100 (84)	5	450 (18)	4	600 (24)
2400 (96)	6	375 (15)	5	525 (21)
2700 (108)	6	475 (19)	5	600 (24)
3000 (120)	7	450 (18)	6	525 (21)
3300 (132)	8	425 (17)	6	600 (24)
3600 (144)	8	475 (19)	7	550 (22)

**Remove all concrete in front of existing concrete headwall. Cost included with Concrete Collar.

CULVERT CONNECTION WITHOUT EXISTING HEADWALL

Bill of Materials

STATION	DIMENSIONS			h Bar No.	U Bar		U1 Bar No.	EXPANSION BOLTS No.	CONCRETE COLLAR Cu. yds.	REINF. BARS Lbs.	
	X	Y	Z		No.	Length					
10990+83 RT**	4'-8"	3'-0"	-	-	4	10'-8"	-	8	0.8	30	
10990+83 LT	4'-8"	3'-0"	-	-	4	10'-8"	-	8	0.8	30	
114+42 RT(IL-70)	5'-8"	3'-6"	-	16	4	12'-8"	-	8	1.1	50	
114+42 LT(IL-70)	5'-8"	3'-6"	-	16	4	12'-8"	-	8	1.1	50	
10710+42 LT	6'-0"	3'-8"	-	16	4	13'-4"	-	8	1.1	60	
10710+42 RT	6'-0"	3'-8"	-	16	4	13'-4"	-	8	1.1	60	
10714+46 RT	5'-6"	3'-5"	5'-6"	16	2	12'-4"	1	16'-6"	1.3	50	
								Total	56	7.3	330

All h Bars 450 (18) Long

General Notes

Concrete Collars shall be constructed of Class SI Concrete in accordance with Section 503 of the Standard Specifications

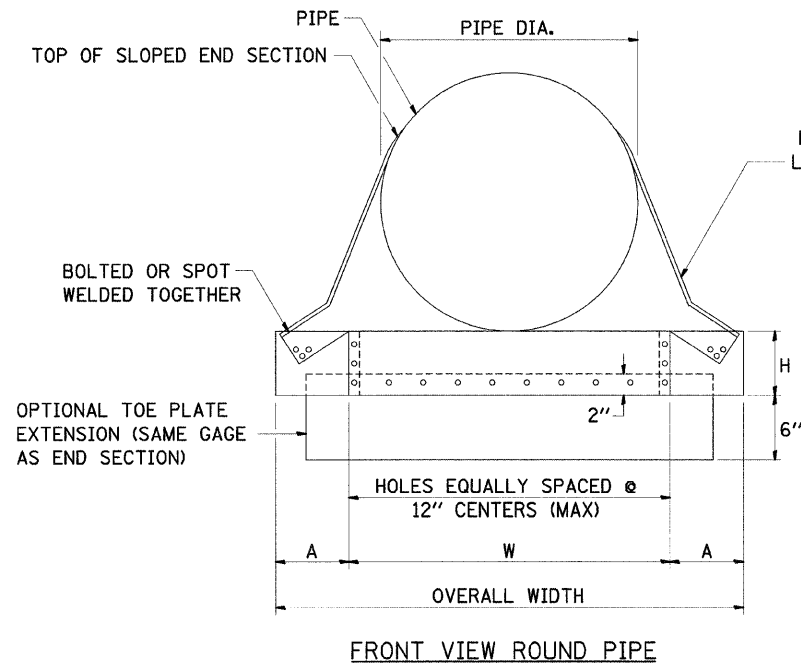
Reinforcement bars shall conform to Section 508 of the Standard Specifications.

The concrete will be paid for at the contract unit price per cubic yard for CONCRETE COLLAR. Reinforcement will be paid for at the contract unit price per pound for REINFORCEMENT BARS. Expansion Bolts, when required, will be paid for at the contract unit price each for EXPANSION BOLTS of the size indicated, which price shall include furnishing, drilling holes, and installing the expansion bolts complete in place. These bolts shall extend at least 8 inches into the new concrete.

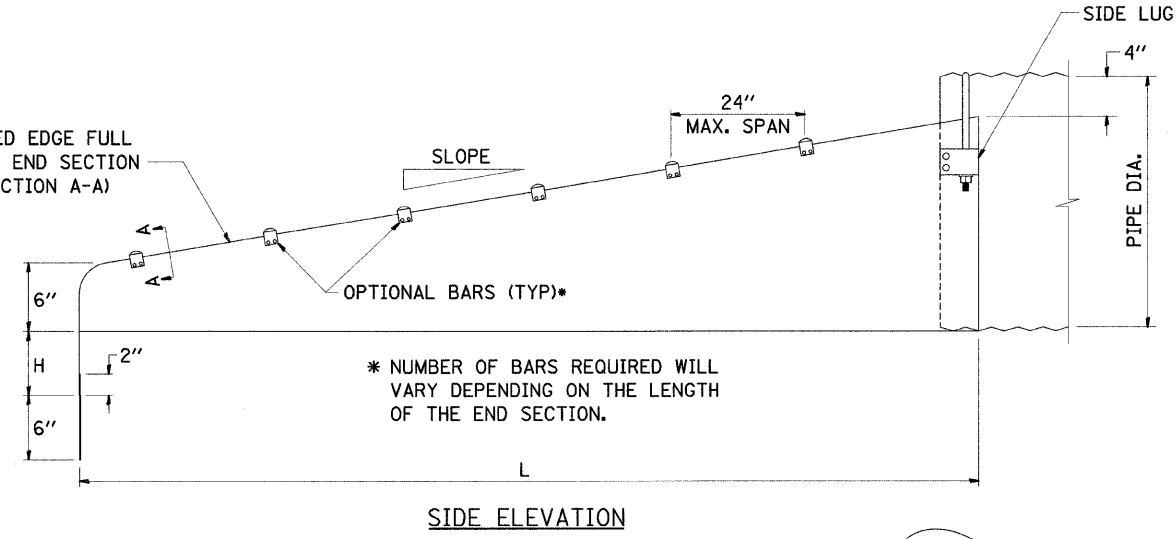
PLOT DATE = 3/2/2009
 FILE NAME = #FILEL*
 SCALE = 1/8"=1'-0"
 REFERENCE = #REF*

* MINIMUM ONE PER SIDE

SLOPED METAL END SECTIONS WITH GRATE



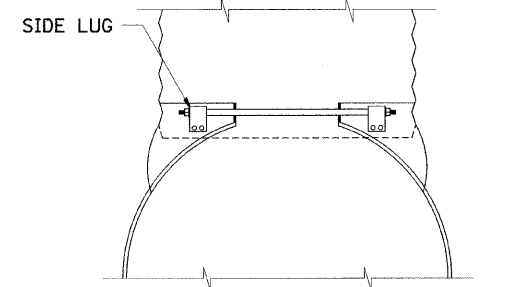
FRONT VIEW ROUND PIPE



SIDE ELEVATION

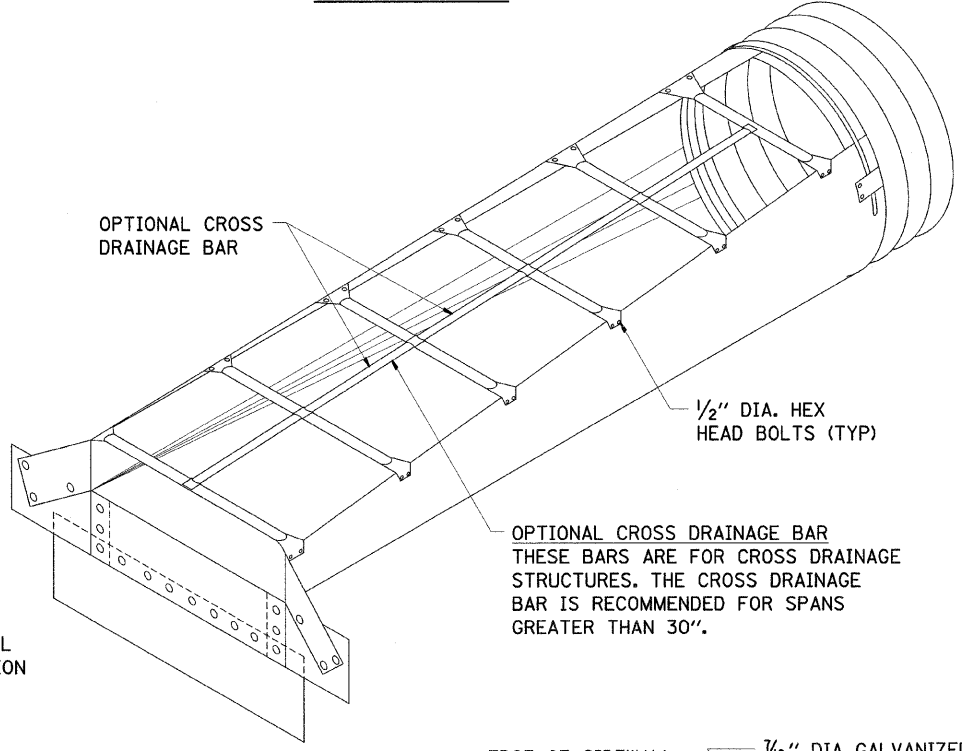
GENERAL NOTES

- CONNECTORS - ROUND SIZES THRU 24" ATTACH TO PIPE WITH TYPE #1 STRAPS, ALL OTHER SIZES ATTACH WITH TYPE #2 RODS AND LUGS.
- TOE PLATE EXTENSIONS - WHEN REQUIRED, TOE PLATE EXTENSIONS ARE TO BE THE SAME GAGE AS END SECTION. DIMENSIONS SHALL BE OVERALL WIDTH LESS 6 INCHES BY 8 INCHES HIGH.
- OPTIONAL BARS - BARS WHEN SPECIFIED, SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE.
- TYPICALLY PARALLEL BARS ARE PLACED ON 24" CENTERS.
- TYPICALLY THE CROSS BARS ARE USED ON CROSS DRAIN APPLICATIONS.
- HOLES FOR BAR ATTACHMENTS SHALL BE PROVIDED ON ALL END SECTIONS.
- DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
- THESE END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR SLOPED METAL END SECTIONS WITH GRATE OF THE DIAMETER SPECIFIED, WHICH SHALL INCLUDE FURNISHING AND INSTALLING THE END SECTION COMPLETE IN PLACE, INCLUDING THE TOE PLATE, EXCAVATING, BACKFILLING, CONNECTING TO THE PIPE, AND CROSS DRAINAGE BARS.



TYPE #2 CONNECTOR DETAILS (SHOWN)

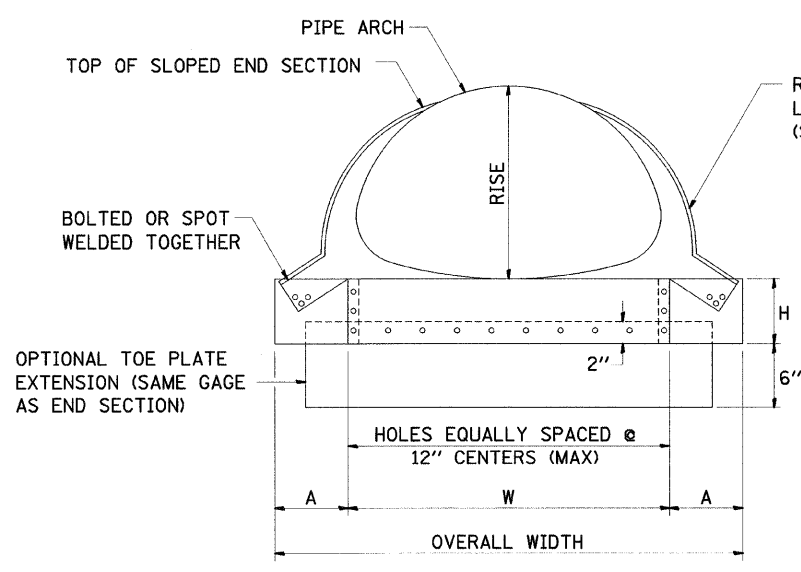
TYPE #1 CONNECTOR DETAILS THRU 24" GALVANIZED STRAP
 TYPE #2 CONNECTOR DETAILS (SHOWN) FOR 30" AND LARGER 21" x 15" AND LARGER 1/2" THREADED ROD W/FLANGED NUT AND SIDE LUG



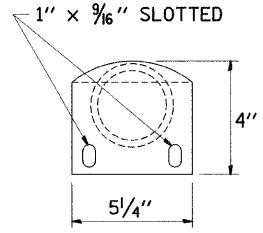
CIRCULAR PIPE ISOMETRIC VIEW

OPTIONAL CROSS DRAINAGE BAR THESE BARS ARE FOR CROSS DRAINAGE STRUCTURES. THE CROSS DRAINAGE BAR IS RECOMMENDED FOR SPANS GREATER THAN 30".
 1/2" DIA. HEX HEAD BOLTS (TYP)
 EDGE OF SIDEWALL ROLLED SNUGLY AGAINST STEEL ROD.
 3/16" DIA GALVANIZED STEEL ROD OR NO. 4 GALVANIZED REINFORCING BAR.

METAL END SECTIONS FOR ROUND PIPE										
PIPE DIA. (IN.)	MIN. THICK (IN.)	GAGE	DIMENSIONS (INCHES)				L DIMENSIONS			
			A	H	W	OVERALL WIDTH	SLOPE	LENGTH (IN.)	SLOPE	LENGTH (IN.)
15	.064	16	8	6	21	37	6:1	30	4:1	20
18	.064	16	8	6	24	40	6:1	48	4:1	32
21	.064	16	8	6	27	43	6:1	66	4:1	44
24	.064	16	8	6	30	46	6:1	84	4:1	56
30	.109	12	12	9	36	60	6:1	120	4:1	80
36	.109	12	12	9	42	66	4:1	104	6:1	156
42	.109	12	16	12	48	80	4:1	128	6:1	192
48	.109	12	16	12	54	86	4:1	152	6:1	228
54	.109	12	16	12	60	92	4:1	176	6:1	264
60	.109	12	16	12	66	98	4:1	200	6:1	300



FRONT VIEW PIPE ARCH



DETAIL OF OPTIONAL BARS

3" GALVANIZED PIPE FLATTEN END, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

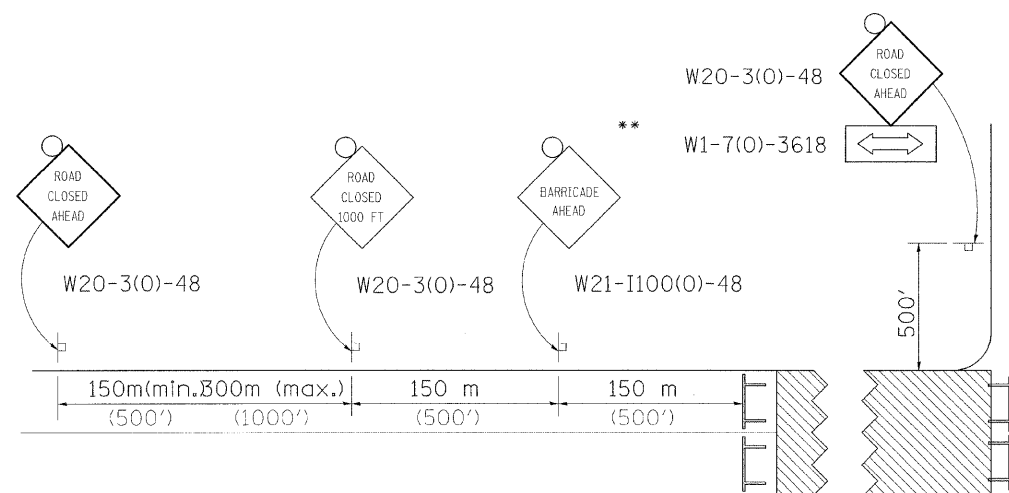
METAL END SECTIONS FOR PIPE ARCH												
EQUIV. DIA. (IN.)	(INCHES)		MIN. THICK (IN.)	GAGE	DIMENSIONS (INCHES)			L DIMENSIONS				
	SPAN	RISE			A	H	W	OVERALL WIDTH	SLOPE	LENGTH (IN.)	SLOPE	LENGTH (IN.)
18	21	15	.064	16	8	6	27	43	6:1	30	4:1	20
21	24	18	.064	16	8	6	30	46	6:1	48	4:1	32
24	28	20	.064	16	8	6	34	50	6:1	60	4:1	40
30	36	24	.079	14	12	9	41	65	6:1	84	4:1	56
36	42	29	.109	12	12	9	48	72	6:1	114	4:1	76
42	49	33	.109	12	16	12	55	87	4:1	92	6:1	138
48	57	38	.109	12	16	12	63	95	4:1	112	6:1	168
54	64	43	.109	12	16	12	70	102	4:1	132	6:1	198
60	71	47	.109	12	16	12	77	109	4:1	148	6:1	222
72	83	57	.109	12	16	12	89	121	4:1	188	6:1	282

*111RS-4, 111BR-1, Yq-15d-RS-1, & (W-15d)T-1

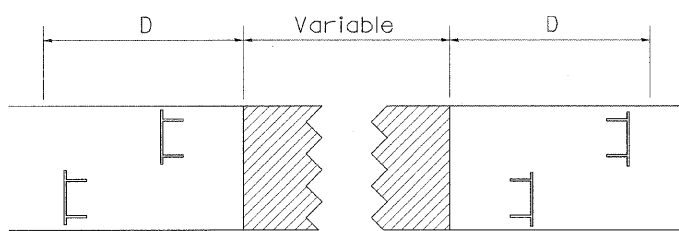
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 MODEL = Dist Std 06

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PLOT SCALE = 1:50		DRAWN -	REVISED -			SCALE: 1:50	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 64970			
		CHECKED -	REVISED -			FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT					
PLOT DATE = 3/2/2009		DATE -	REVISED -			SLOPED METAL END SECTIONS WITH GRATE					35.1

TRAFFIC CONTROL FOR ROAD CLOSURE



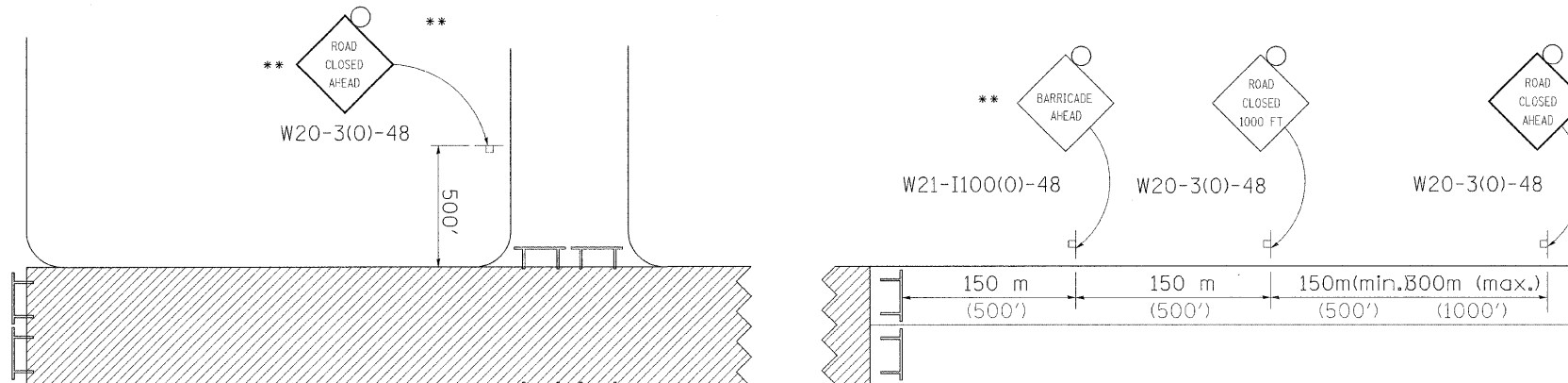
ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 600 m (2000') an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

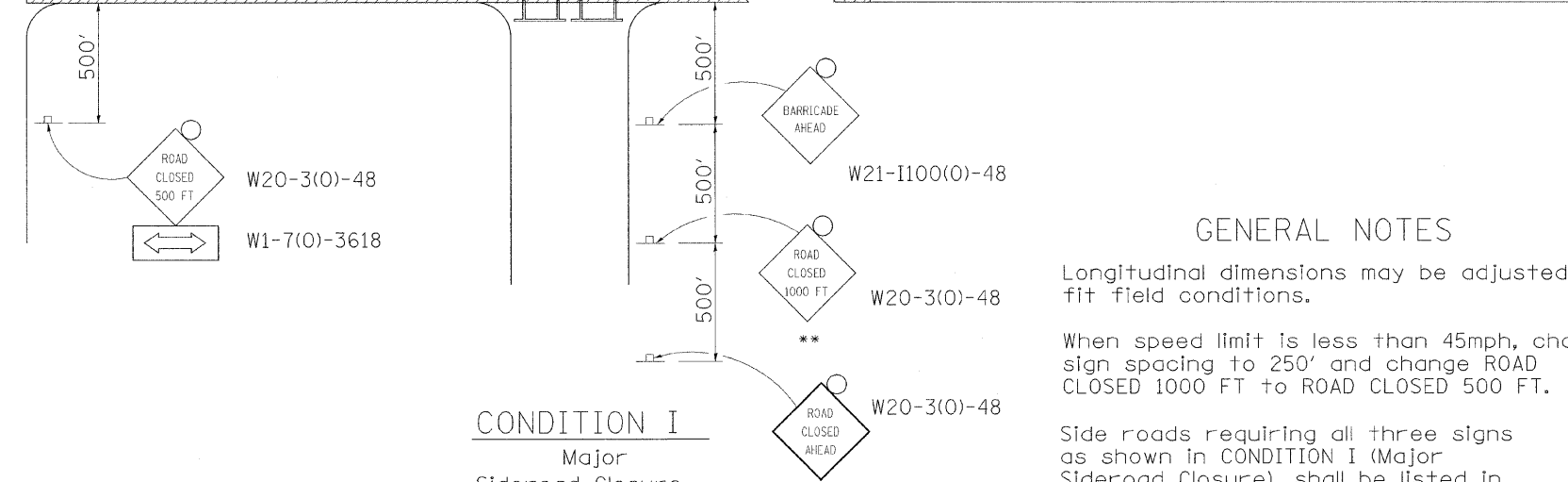
CONDITION II

Minor Sideroad Closure



CONDITION I

Major Sideroad Closure



SYMBOLS

- Work area
- Type III Barricade with Flashers
- Sign with flashing light

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic. Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

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

TYPICAL APPLICATION FOR ROAD CLOSURE

*111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)T-1

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 MODEL = Dist_Std_07

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#FILEL*		DRAWN -	REVISED -
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	PLOT DATE = 3/2/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

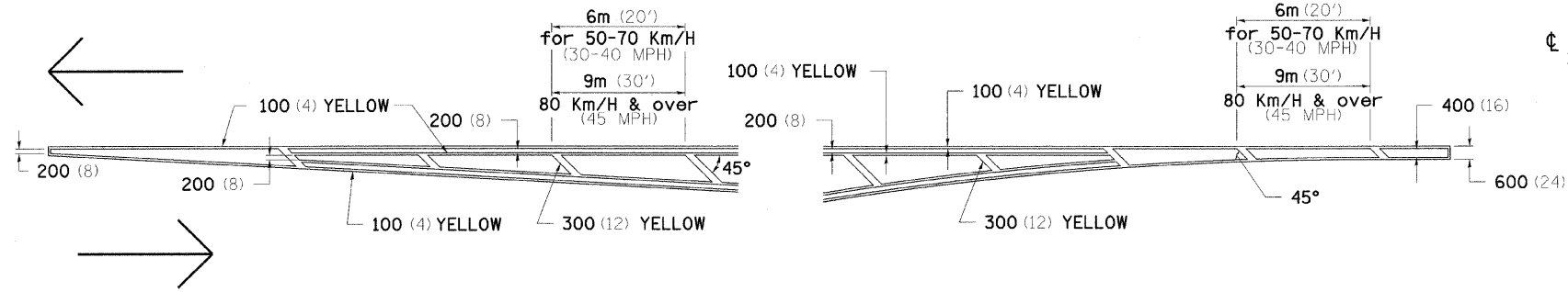
REGION 2 / DISTRICT 2 STANDARD

SCALE: 1:50 SHEET NO. OF SHEETS STA. TO STA.

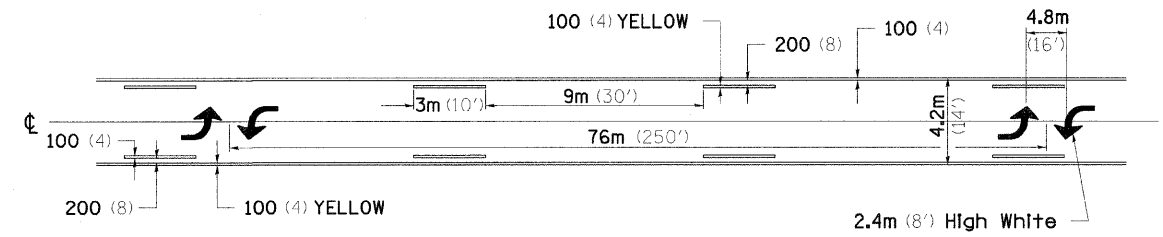
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	.	STEPHENSON	335	170
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64970	

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

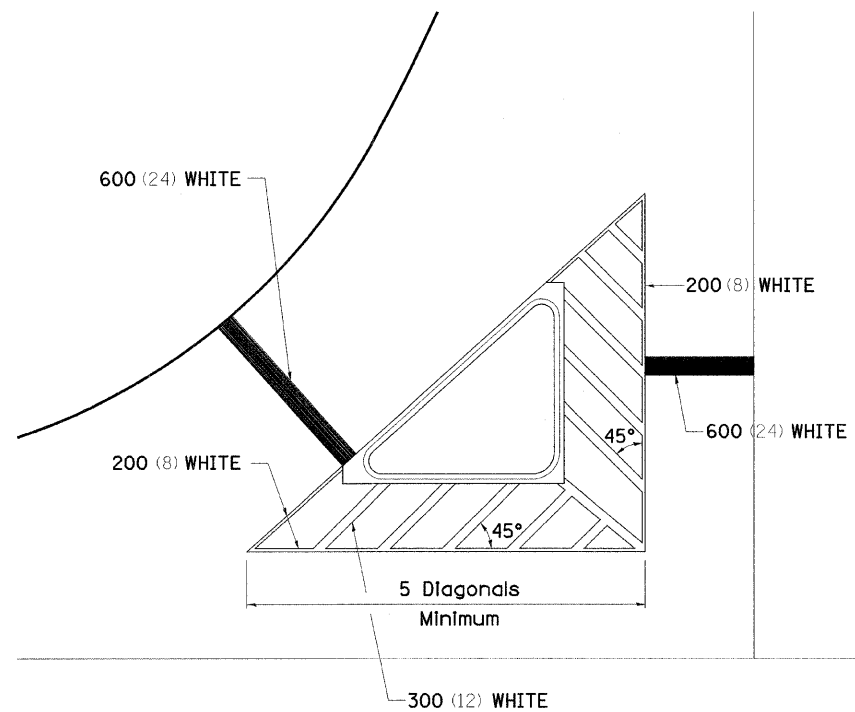


MEDIAN PAVEMENT MARKING

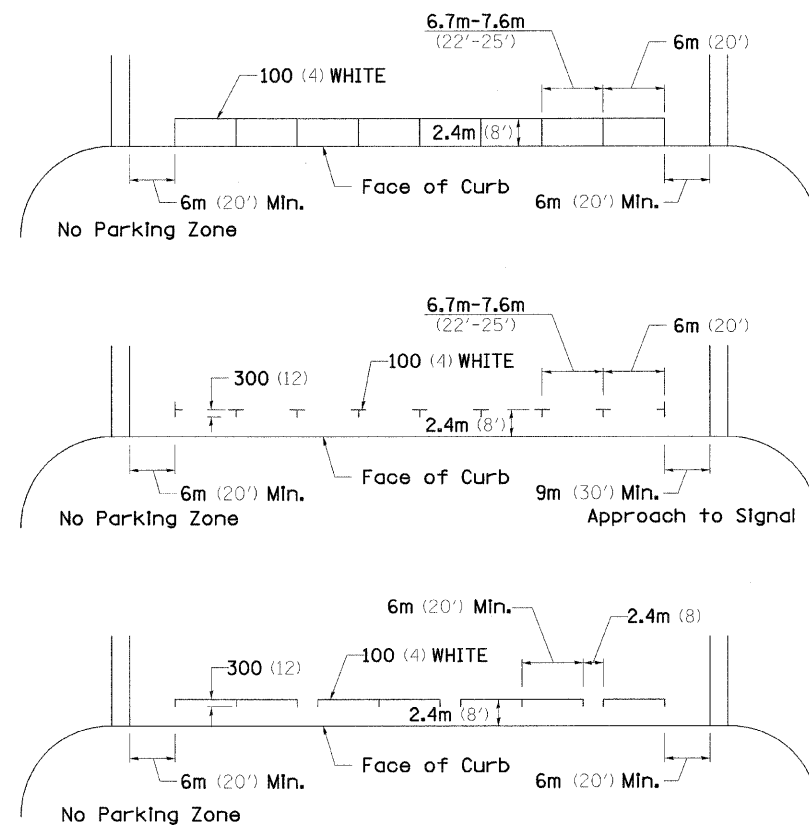


** ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

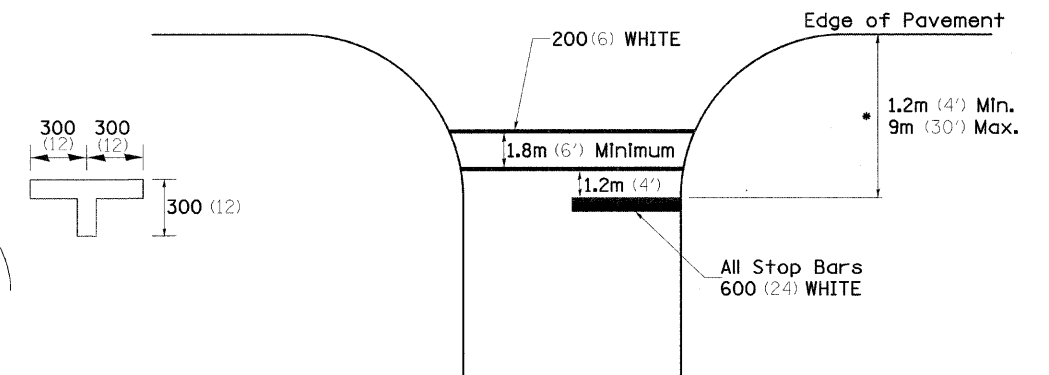


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations



* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

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 PLOTTED = Dist_Shd_B0

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	PLOT DATE = 3/2/2009	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

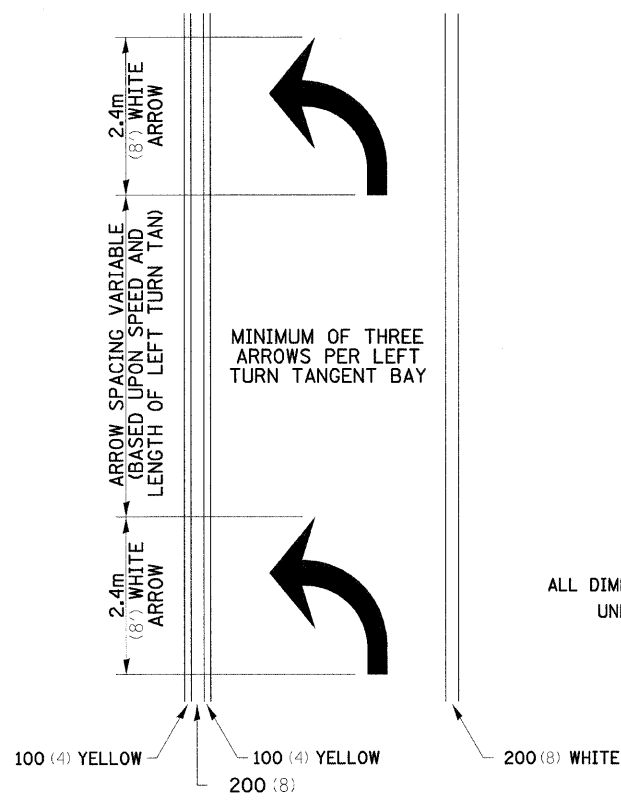
REGION 2 / DISTRICT 2 STANDARD

SCALE: 1:50 SHEET NO. OF SHEETS STA. TO STA.

*111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	.	STEPHENSON	335	171		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT					CONTRACT NO. 64970	

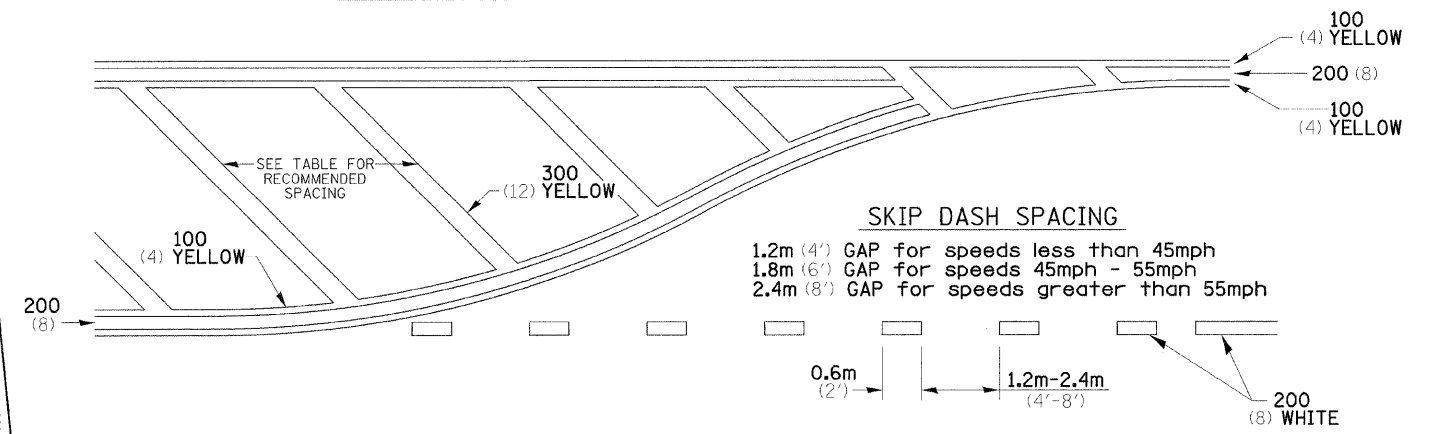
TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT



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

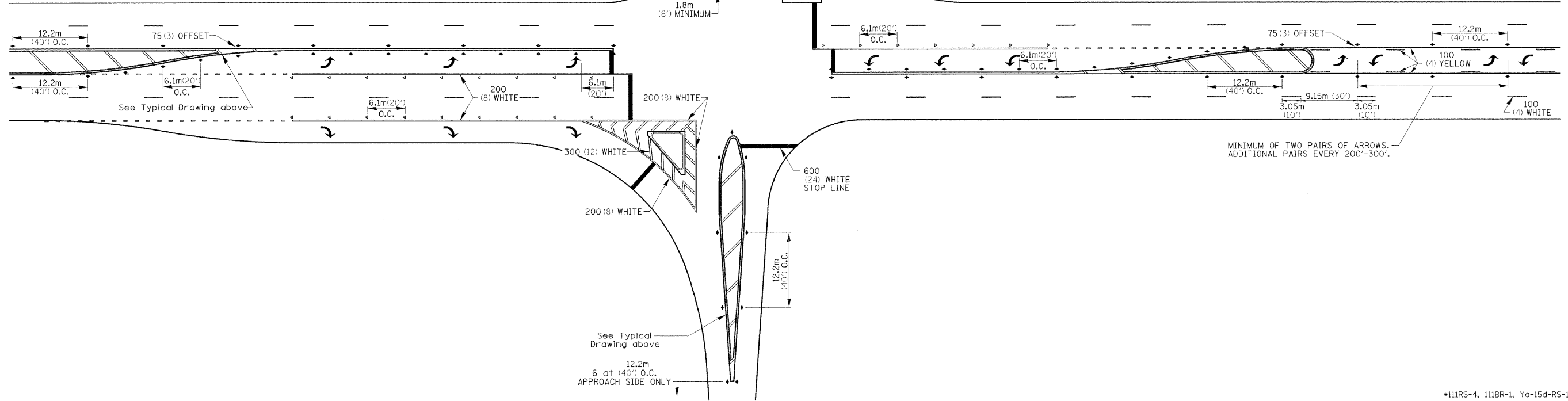
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

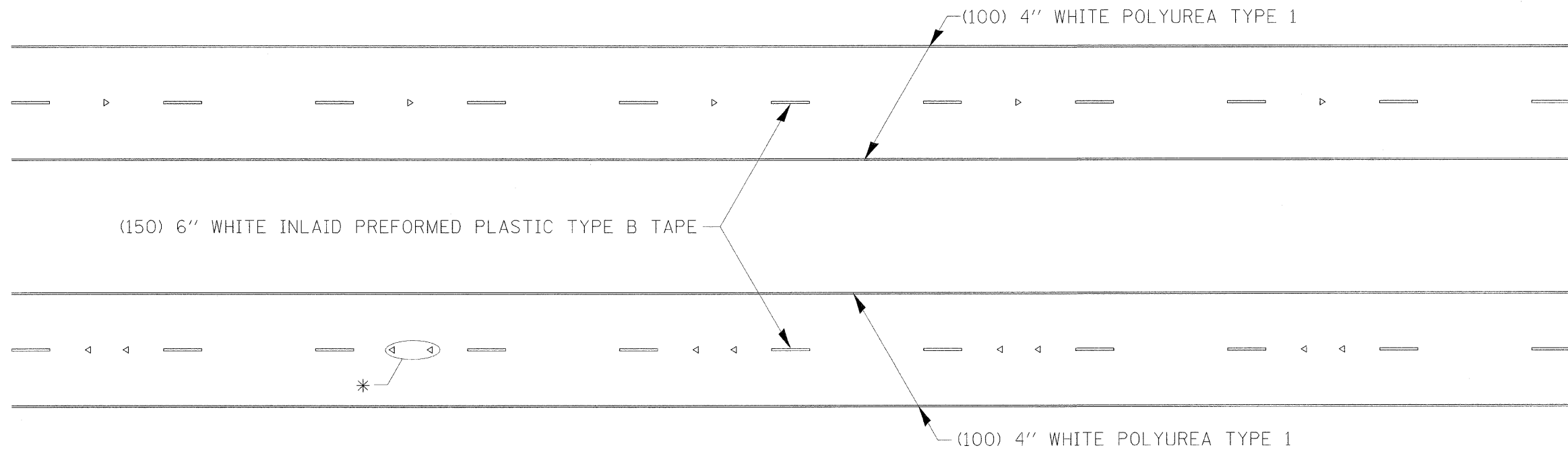
NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



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 MODEL = Dst Std 09

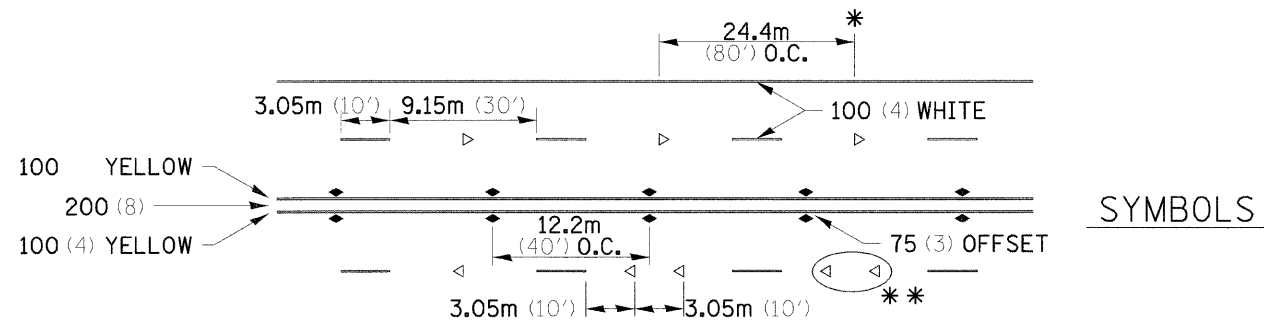
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	PLOT DATE = 3/2/2009	CHECKED -	REVISED -		CONTRACT NO. 64970							
		DATE -	REVISED -		*111RS-4, 111BR-1, Yq-15d-RS-L& (W-15d)T-1							
					TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3 41.1							

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT \geq 25,000.

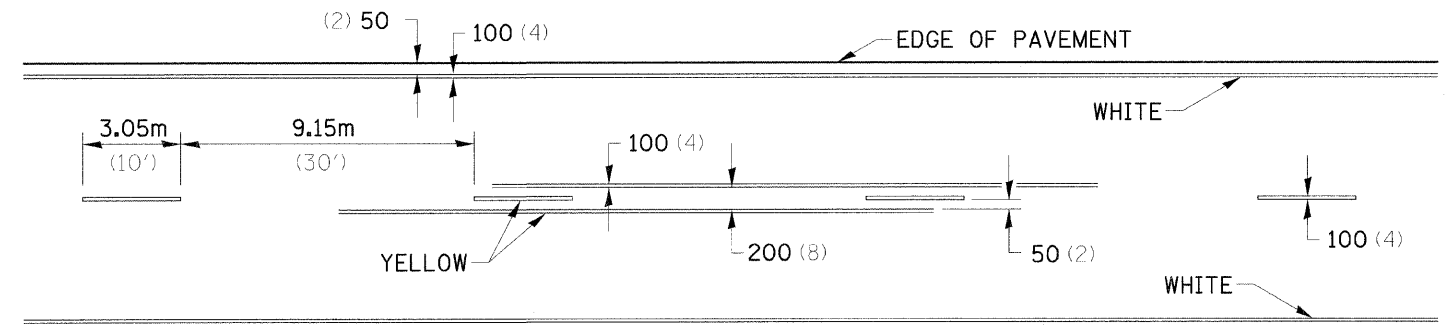
MULTI-LANE / DIVIDED



* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
** USE DOUBLE MARKERS WHEN ADT \geq 25,000

MULTI-LANE / UNDIVIDED

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



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 MODEL = Dist Std 10

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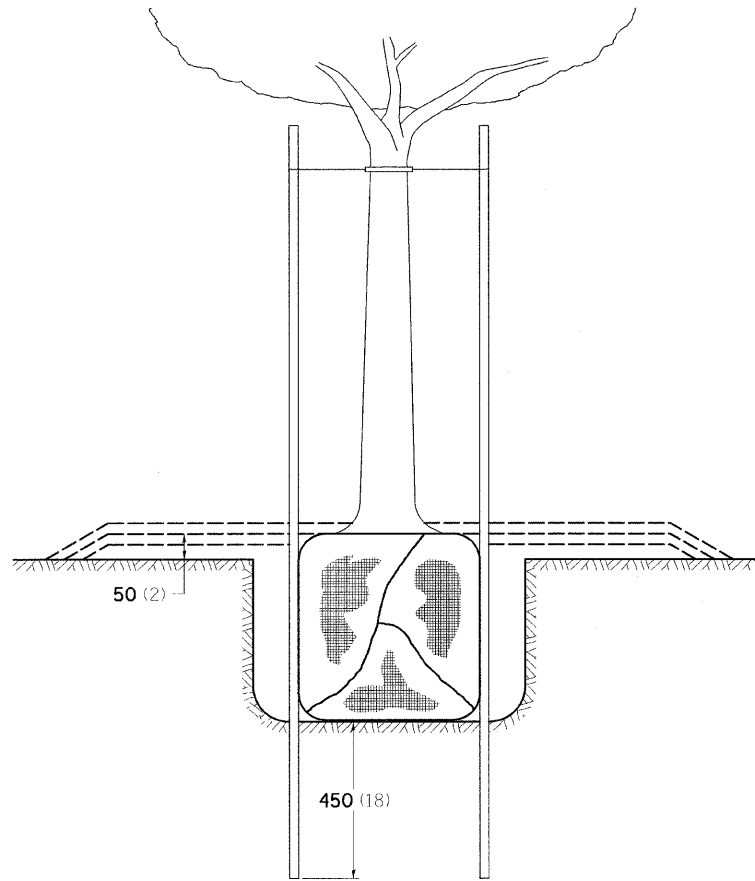
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

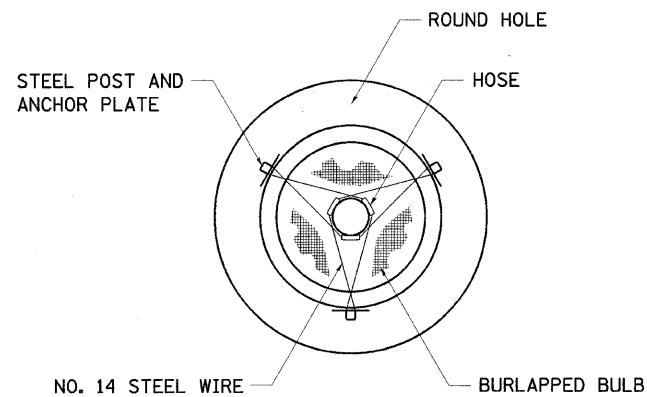
SCALE: 1:50 SHEET NO. OF SHEETS STA. TO STA.

*111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)T-1			
F.A. RTE. 505	SECTION .	COUNTY STEPHENSON	TOTAL SHEETS 335
		SHEET NO. 173	CONTRACT NO. 64970
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			

DETAILS OF PLANTING AND BRACING TREES

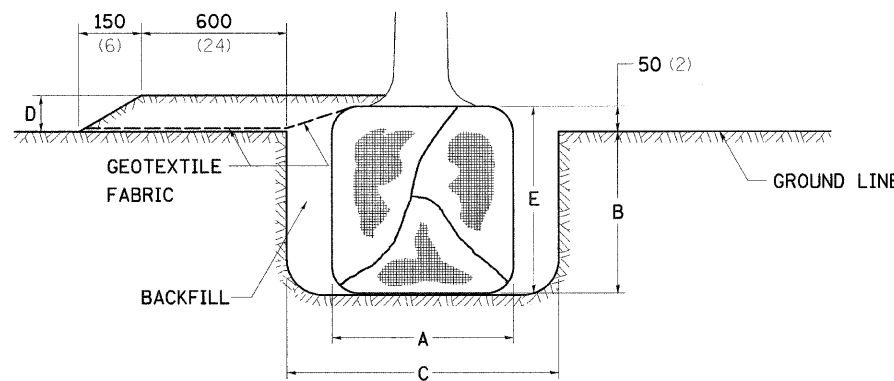


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER

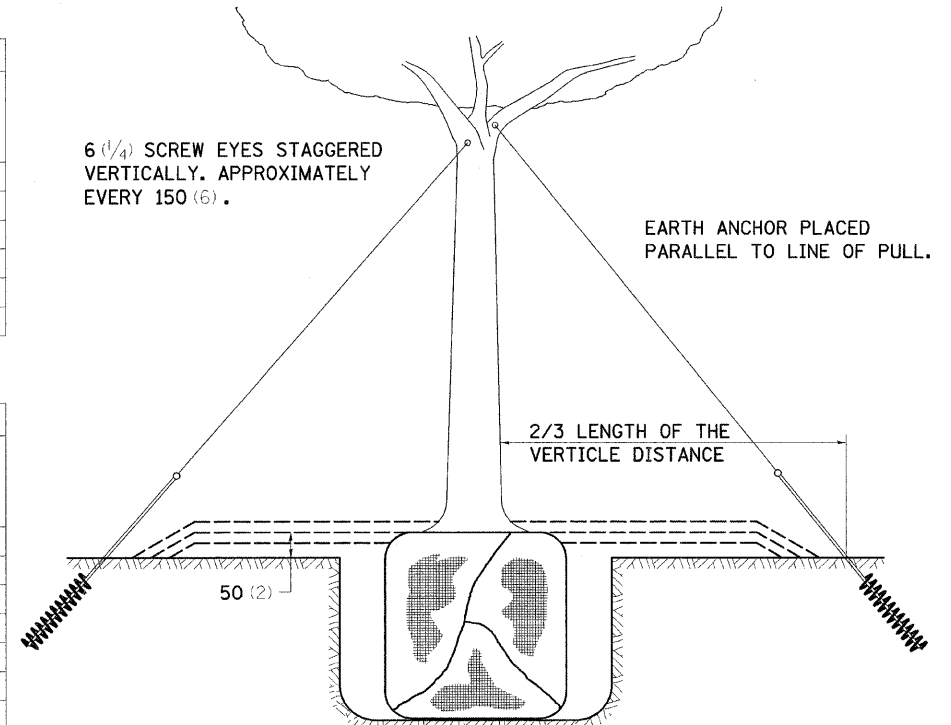


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.8-2.0m (6'-7') BB	450 (18)	300 (12)	750 (30)	100 (4)	350 (14)	0.41 (0.54)
2.0-2.4m (7'-8') BB	500 (20)	275 (11)	750 (30)	100 (4)	325 (13)	0.41 (0.54)
2.4-3.0m (8'-10') BB	600 (24)	350 (14)	900 (36)	100 (4)	400 (16)	0.47 (0.61)
3.0-3.6m (10'-12') BB	650 (26)	375 (15)	900 (36)	100 (4)	425 (17)	0.47 (0.61)

LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2) BB	600 (24)	350 (14)	1200 (48)	100 (4)	400 (16)	0.60 (0.78)
65-75 (2 1/2-3) BB	700 (28)	425 (17)	1200 (48)	100 (4)	475 (19)	0.60 (0.78)
75-90 (3-3 1/2) BB	800 (32)	425 (17)	1500 (60)	100 (4)	475 (19)	0.73 (0.96)
90-100 (3 1/2-4) BB	900 (36)	500 (20)	1500 (60)	100 (4)	550 (22)	0.73 (0.96)
100-115 (4-4 1/2) BB	1000 (40)	550 (22)	1800 (72)	100 (4)	600 (24)	0.89 (1.16)
115-125 (4 1/2-5) BB	1100 (44)	600 (24)	1800 (72)	100 (4)	650 (26)	0.89 (1.16)
125-140 (5-5 1/2) BB	1200 (48)	675 (27)	2100 (84)	100 (4)	725 (29)	1.06 (1.38)



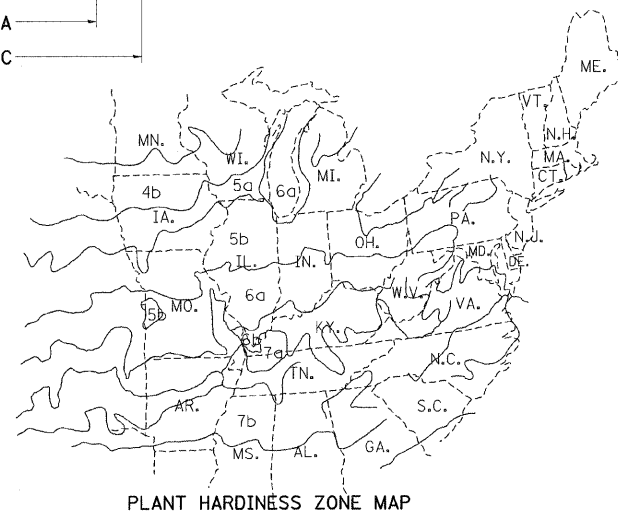
TREES OVER 115 (4 1/2) IN DIAMETER



6 (1/4) SCREW EYES STAGGERED VERTICALLY. APPROXIMATELY EVERY 150 (6).

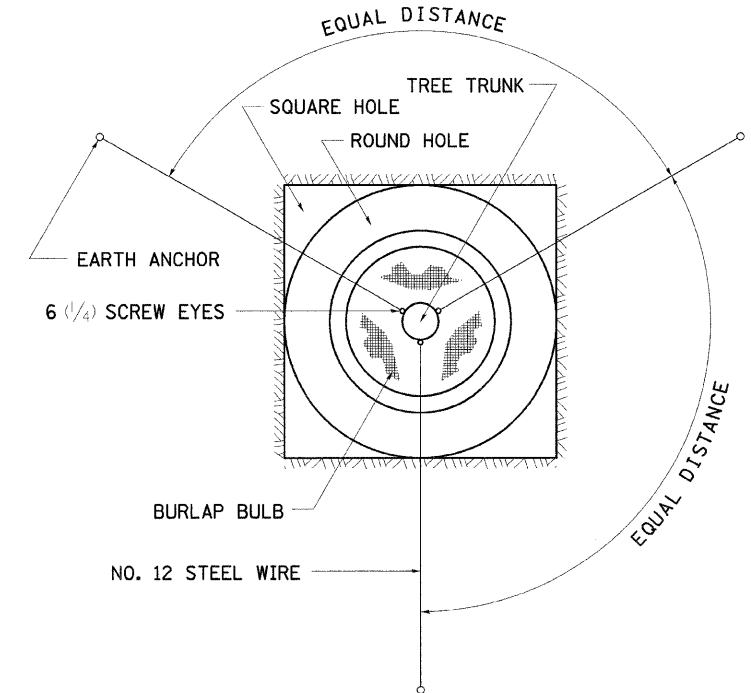
EARTH ANCHOR PLACED PARALLEL TO LINE OF PULL.

2/3 LENGTH OF THE VERTICLE DISTANCE



PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



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

*111RS-4, 111BR-1, Yq-15d-RS-1, & (W-15d)T-1

PLOT DATE = 3/2/2009
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MODEL = Dist Std 12

FILE NAME = #FILEL4	USER NAME = #USER#	DESIGNED -	REVISED - 10-15-04
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

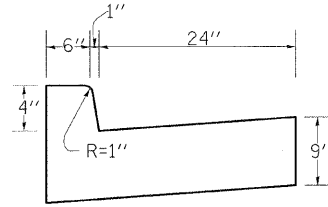
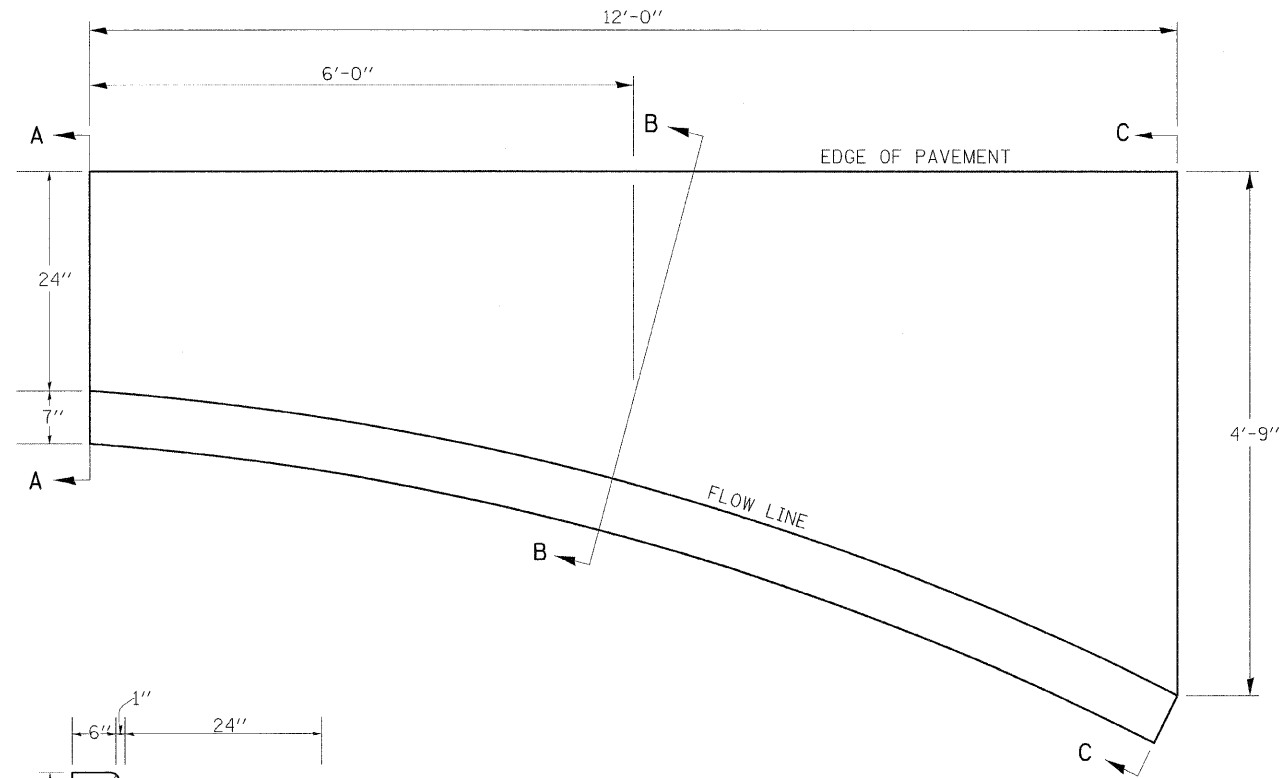
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

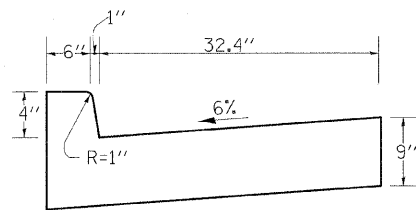
SCALE: 1:50 SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	*	STEPHENSON	335	174
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64970	

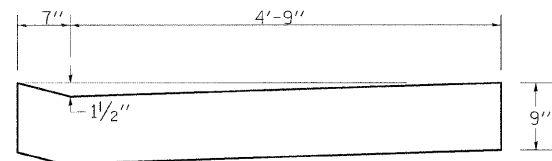
STANDARD INLET FOR CURB & GUTTER TYPE M4-.24



SECTION A-A



SECTION B-B



SECTION C-C

NOTES

Class SI Concrete shall be used throughout.

The Curb and Gutter Inlet will be paid for at the contract unit price per cubic yard for Class SI Concrete (OUTLETS).

Joints shall be constructed in accordance with the requirements of Article 606.07 of the Standard Specifications.

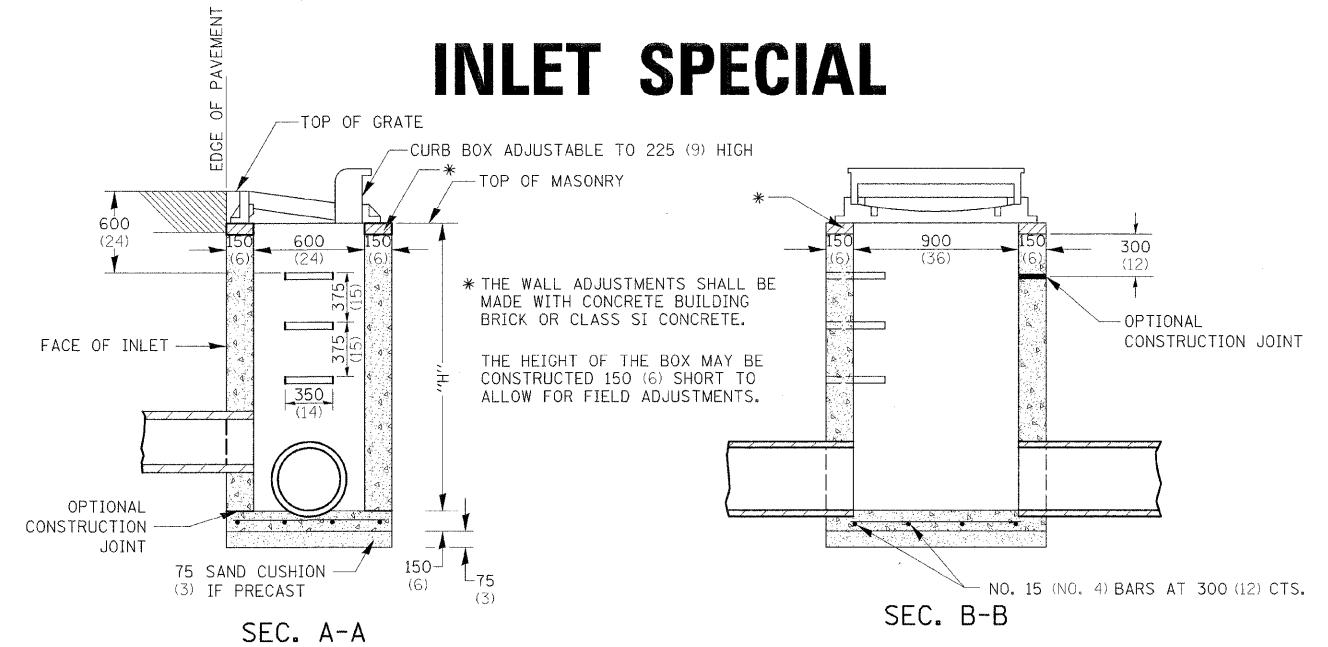
When curb and gutter is constructed adjacent to flexible pavement, a 1" expansion joint shall be installed at construction joints.

- QUANTITY -

Section A-A to C-C
(1.23 Cu. Yds.)
Class SI Concrete

REVISED - 10-10-06

INLET SPECIAL



SEC. A-A

SEC. B-B

NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

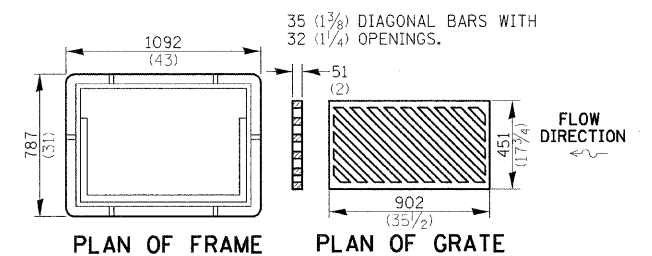
WEIGHT OF CAST IRON FRAME & GRATE = 240 kg (530 lbs.) ± . STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 1.5 m (5 ft).

DETAIL OF FRAME & GRATE

NOTES

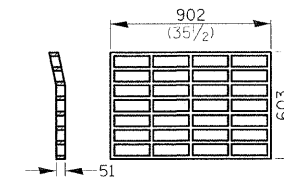
CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 27.5 MPa (4,000 psi) AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.

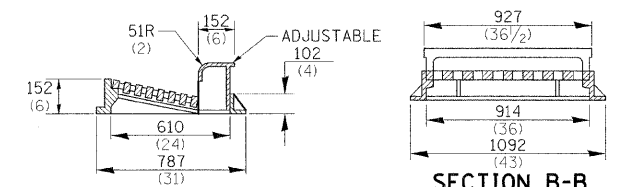


PLAN OF FRAME

PLAN OF GRATE



PLAN OF GRATE *



SECTION A-A

SECTION B-B

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

REVISED - 11-10-94

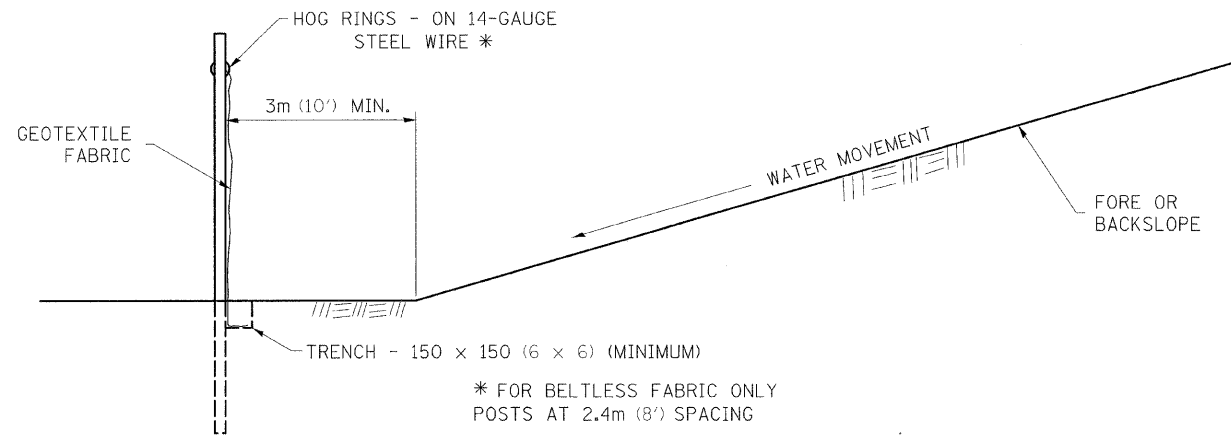
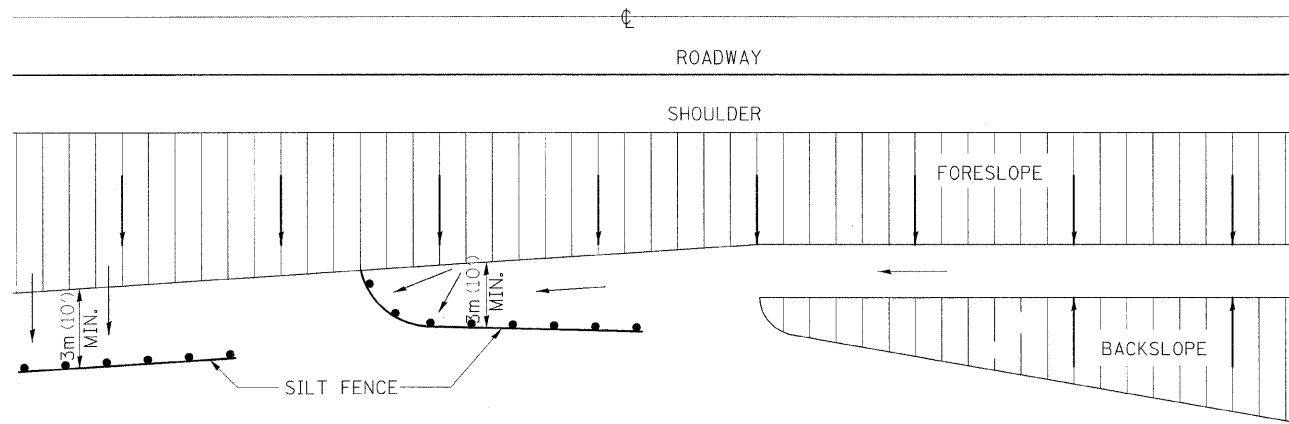
* THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.

*111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1

REVISED -	REGION 2 / DISTRICT 2 STANDARD				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -	SCALE: 1/8" = 1'-0"	SHEET NO.	OF SHEETS	STA.	505	.	STEPHENSON	335	175
REVISED -					CONTRACT NO. 64970				
REVISED -					FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT				

PLOT DATE = 3/2/2009
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PLOT SCALE = 1:150
USER NAME = JTR-ecg
PDELL = Dist 3rd 13

EROSION CONTROL DETAILS FOR SILT FENCE



DETAILS OF SILT FENCE

EROSION CONTROL DETAILS FOR SILT FENCE

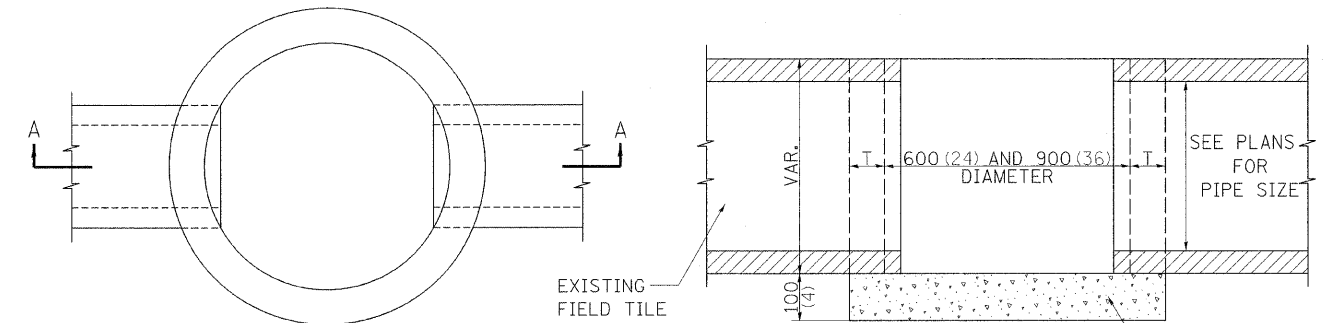
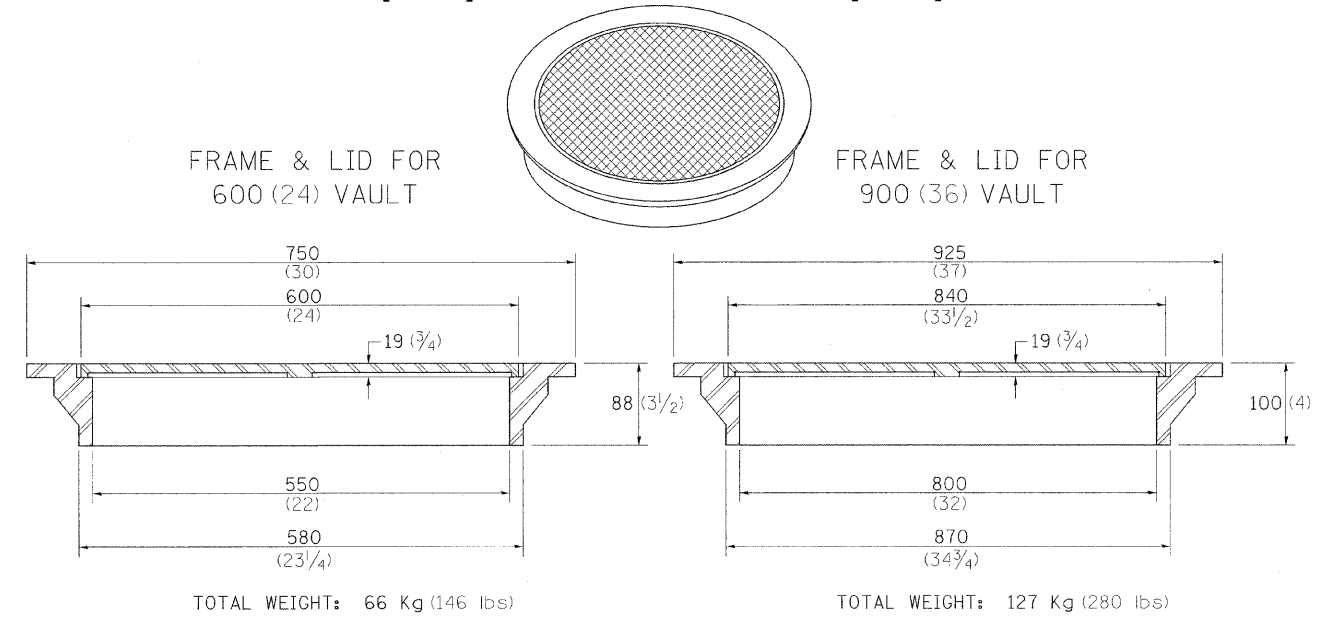
29.2

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

REVISED - 10-22-01

PLOT DATE = 3/2/2009
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 MODEL = Dist Std 14

FIELD TILE JUNCTION VAULTS 600 (24) AND 900 (36) DIA.



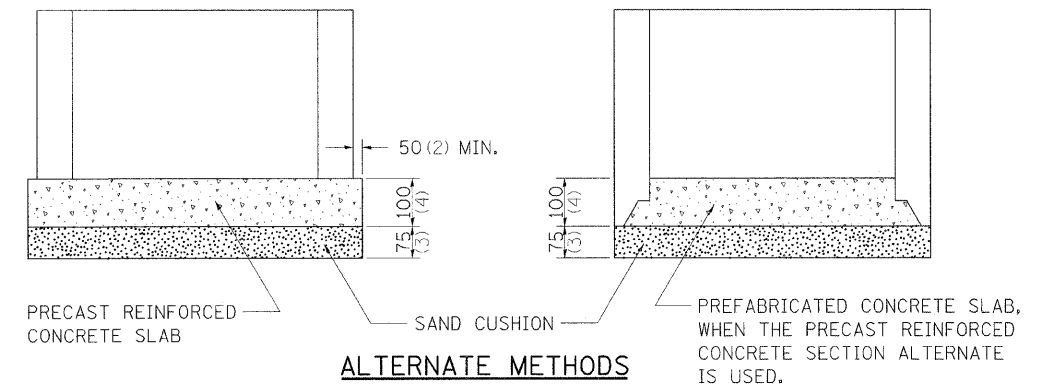
PLAN

ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	200 (8)
CAST-IN-PLACE CONCRETE	150 (6)
CONCRETE MASONRY UNIT	125 (5)
PRECAST REINFORCED CONCRETE SECTION	75 (3)

SECTION A-A

NOTE: THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.

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



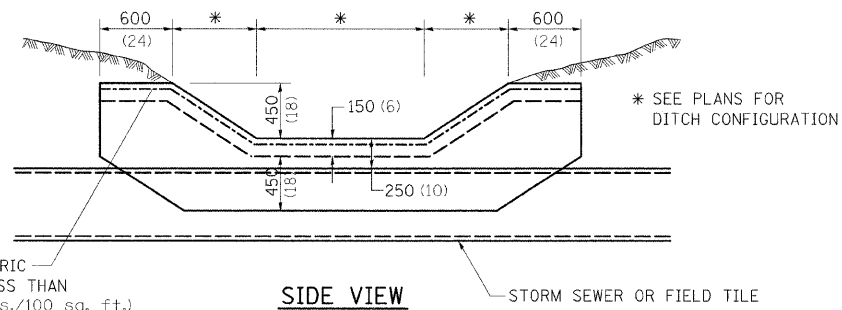
REVISED - 5-03-94

FIELD TILE JUNCTION VAULTS 600 (24) AND 900 (36) DIA. 30.2

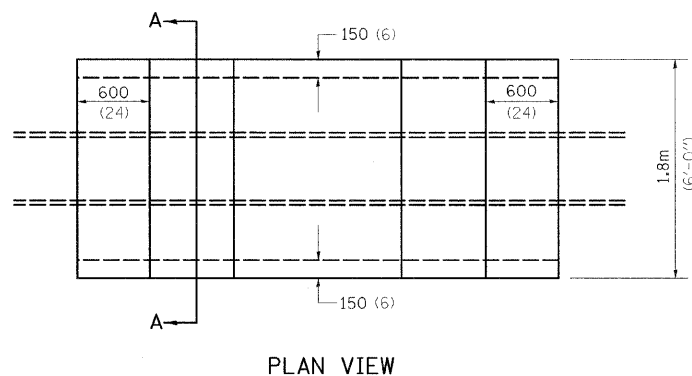
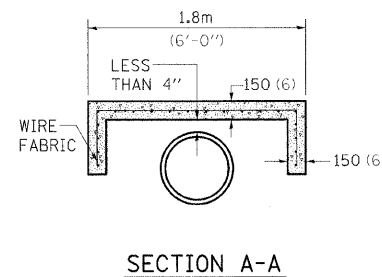
REVISED -	REGION 2 / DISTRICT 2 STANDARD				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -	SCALE: 1/50	SHEET NO.	OF	SHEETS	STA.	TO STA.	STEPHENSON	335	176
REVISED -					FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT		CONTRACT NO. 64970		
REVISED -					*111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)T-1				

TREATMENT OF FIELD TILE SYSTEMS UNDER DITCHES

PAVED DITCH
TO BE USED IF COVER OVER THE PIPE AT THE BOTTOM OF THE DITCH IS LESS THAN 250mm (10 inches)

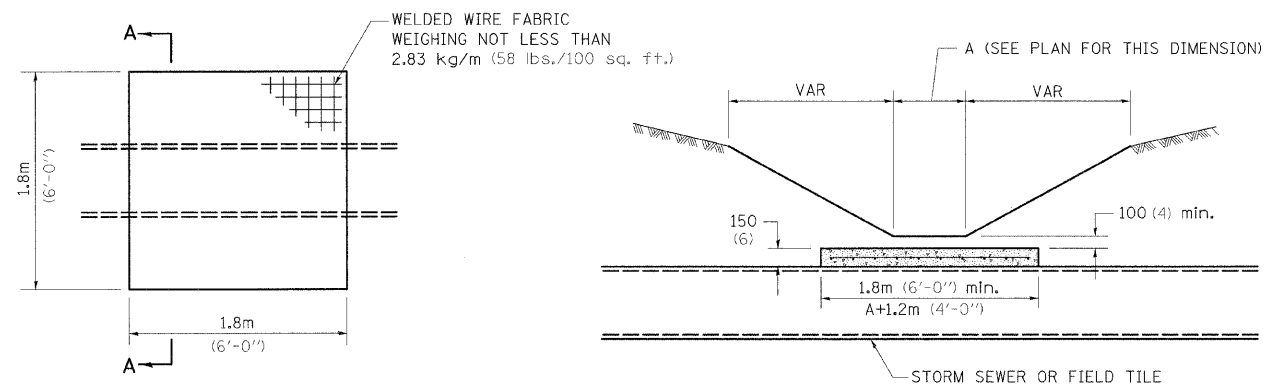


WELDED WIRE FABRIC WEIGHING NOT LESS THAN 2.83 kg/m (58 lbs./100 sq. ft.)



CONCRETE SLAB

TO BE USED IF COVER OVER THE PIPE AT THE BOTTOM OF THE DITCH IS 250mm (10 inches) TO 600mm (24 inches)



NOTES

THIS WORK SHALL BE DONE IN ACCORDANCE WITH ARTICLE 611.04 OF THE STANDARD SPECIFICATION.

THE CONCRETE SLAB AND PAVED DITCH WILL BE PAID FOR AT THE CONCRETE UNIT PRICE PER CUBIC METER (CUBIC YARD) FOR MISCELLANEOUS CONCRETE.

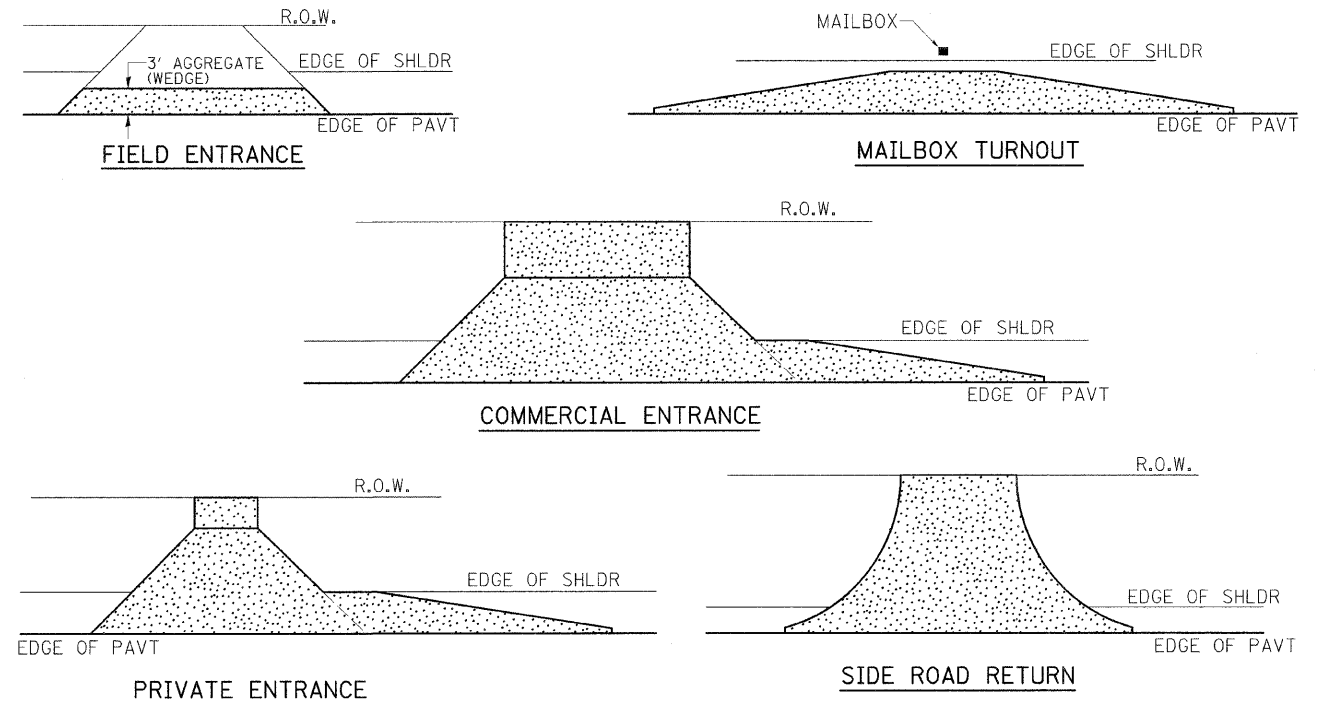
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 10-15-04

TREATMENT OF FIELD TILE SYSTEMS UNDER DITCHES

31.2

HOT-MIX ASPHALT APPROACHES & MAILBOX RETURNS FOR TWO LIFT (3P) RESURFACING PROJECTS

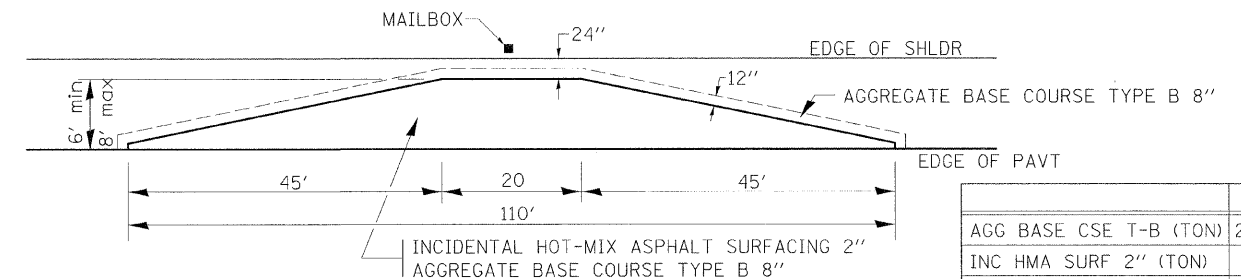


NOTE: EXISTING HMA PE's, CE's, SR's, & MB TURNOUTS
Place 2 1/4 " Incidental Hot-Mix Asphalt Surfacing #40800050 on entrance to conform to the existing configuration.

EXISTING AGG. PE's & CE's
Place 2" Incidental Hot-Mix Asphalt Surfacing #40800050 on existing entrance to conform to the present configuration.

EXISTING AGG. SIDEROADS
Place 3" Incidental Hot-Mix Asphalt Surfacing #40800050 on sideroad to conform to the present configuration.

EXISTING AGG. MAILBOX TURNOUTS
Existing Agg. Mailbox Turnouts shall be constructed as shown below.



	6'	8'
AGG BASE CSE T-B (TON)	24.5	31.1
INC HMA SURF 2" (TON)	7.3	9.8
BIT PRIME COAT (TON)	0.06	0.08

REVISED - 10-21-08

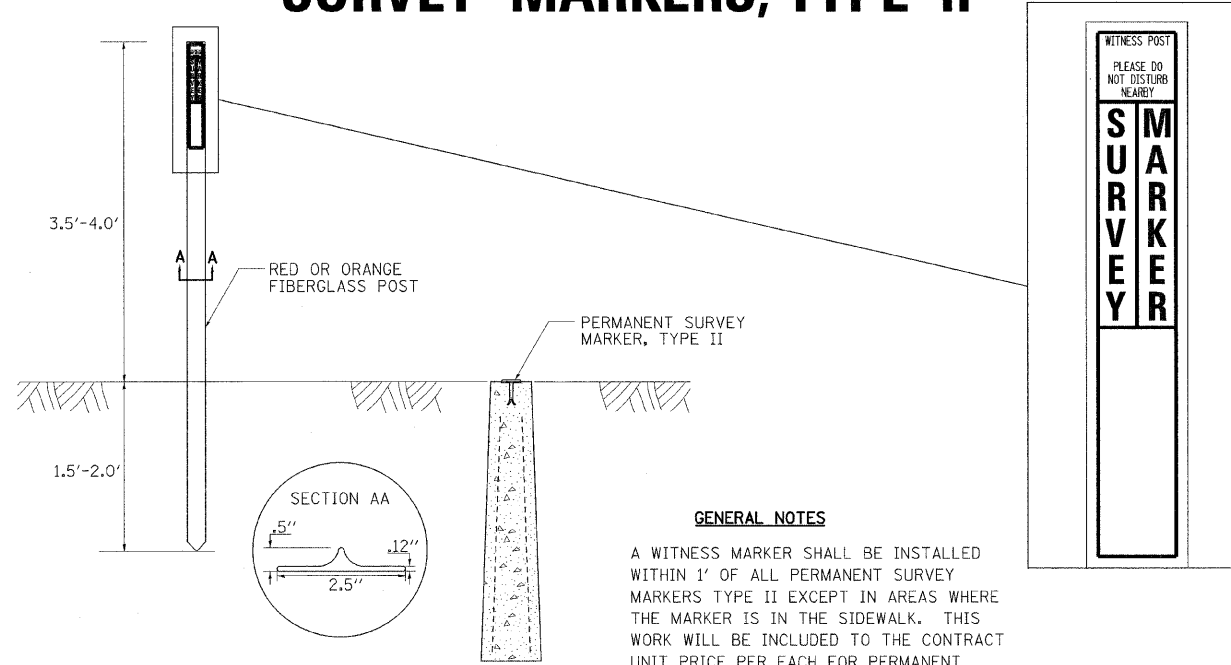
HOT-MIX ASPHALT APPROACHES & MAILBOX RETURNS FOR TWO LIFT (3P) RESURFACING PROJECTS

47.2

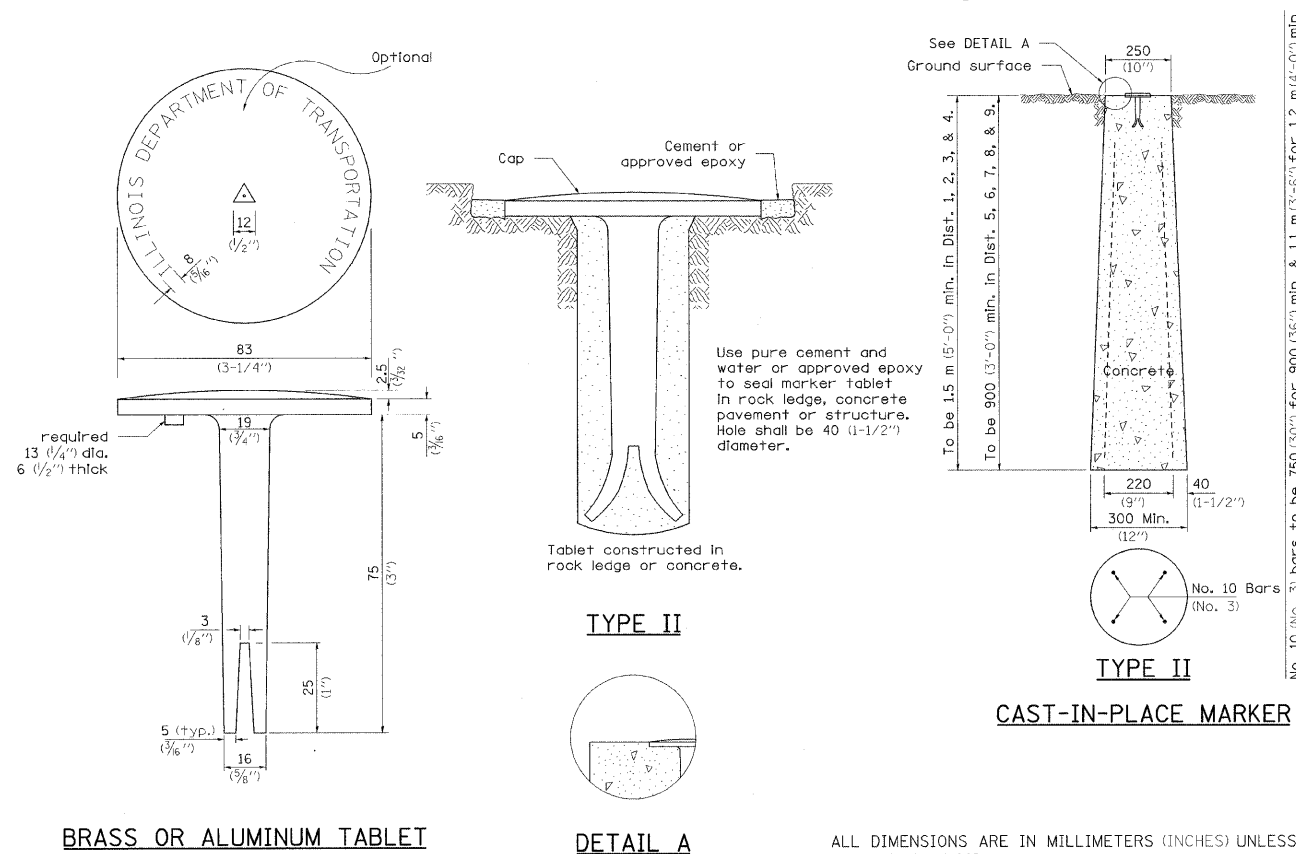
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USER NAME = JTracey
MODEL = Dist_Shd IS

REGION 2 / DISTRICT 2 STANDARD				*111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)T-1	
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
505	*	STEPHENSON	335	335	177
			CONTRACT NO. 64970		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT					

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



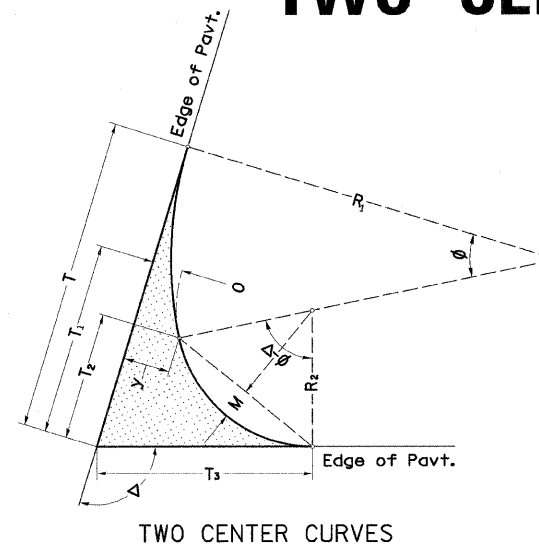
PERMANENT SURVEY MARKERS, TYPE II



REVISD - 10-21-08

WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II 66.2

TWO CENTER CURVE DATA



REVISED - 3-22-90

CURVE #	75/70 #1	75/70 #2	75/70 #3	75/70 #4
R ₁	420	360	360	360
R ₂	70	60	90	60
O	10	10	10	10
Δ	91°09'03"	88°50'57"	91°44'48"	88°15'12"
T	154.69	135.42	165.89	134.7
T ₁	71.62	58.61	93.09	57.89
T ₂	55	43.24	68.82	42.53
T ₃	81.42	68.81	102.79	68.2
y	12	12	13.33	12
4y/9	5.33	5.33	5.93	5.33
y/9	1.33	1.33	1.48	1.33
M	15.38	12.09	19.13	11.9
15M/16	14.42	11.33	17.93	11.16
3M/4	11.53	9.06	14.35	8.92
7M/16	6.73	5.29	8.37	5.21
C	87.55	72.23	110.95	71.73

CURVE #	75/CEDARVILLE #5	FRITZ/LEECH #11	70/LEECH #8	75/LEECH #9	75/LEECH #10
R ₁	200	460	300	200	250
R ₂	45	60	50	60	50
O	15	12	15	10	10
Δ	124°15'32"	88°53'25"	74°46'00"	90°27'12"	90°14'53"
T	161.83	163.48	119.57	112.54	116.02
T ₁	95.31	85.58	34.10	60.55	50.27
T ₂	76.00	42.85	17.01	38.27	33.83
T ₃	103.24	72.85	53.82	70.49	61.33
y	19.35	16.10	18.08	14.30	13.90
4y/9	8.60	7.16	8.04	6.36	6.18
y/9	2.15	1.79	2.01	1.59	1.54
M	15.73	11.98	5.60	10.45	9.31
15M/16	14.75	11.23	5.25	9.80	8.73
3M/4	11.80	8.99	4.20	7.84	6.98
7M/16	6.88	5.24	2.45	4.57	4.07
C	68.36	71.96	46.00	67.67	58.11

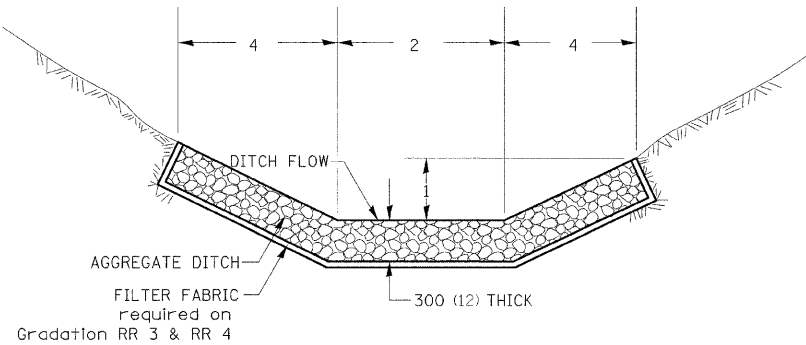
TWO AND THREE CENTER CURVE DATA 92.2

*111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)T-1

REVISD	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISD -	SCALE: 1:50	505	*	STEPHENSON	335	178
REVISD -	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 64970				
REVISD -		FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

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 PLOT SCALE = 1:50
 USER NAME = JTreacy
 MODEL = Data Std 16

AGGREGATE DITCH FOR FLEXIBLE DITCH LINING



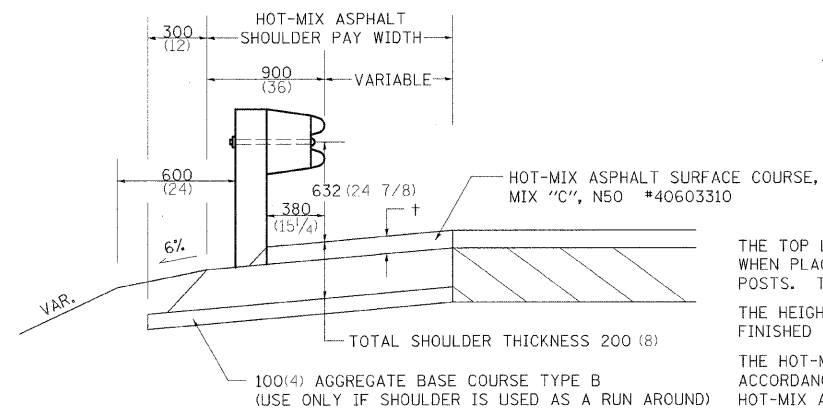
CLASS A4 WILL BE REQUIRED ON THIS PROJECT AT THE LOCATION SHOWN ON THE PLANS. THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 283. AGGREGATE DITCH WILL BE MEASURED FOR PAYMENT IN PLACE AND THE AREA COMPUTED IN SQUARE METERS (SQUARE YARD) OF ACTUAL SURFACE AREA. AGGREGATE DITCH WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE METER (SQUARE YARD) FOR AGGREGATE DITCH, 300 mm (12").

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

REVISED - 11-01-07

AGGREGATE DITCH FOR FLEXIBLE DITCH LINING 21.4

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL



† = SEE TYPICAL SECTIONS FOR THICKNESS

GENERAL NOTES

THE TOP LIFT SHALL NOT BE PLACED BEHIND THE GUARDRAIL POSTS. WHEN PLACING THE TOP LIFT THE RAIL MUST BE REMOVED FROM THE POSTS. THE POST SHALL NOT BE REMOVED.

THE HEIGHT OF THE GUARD RAIL SHALL BE SET **632** (24⁷/₈) FROM THE FINISHED SURFACE.

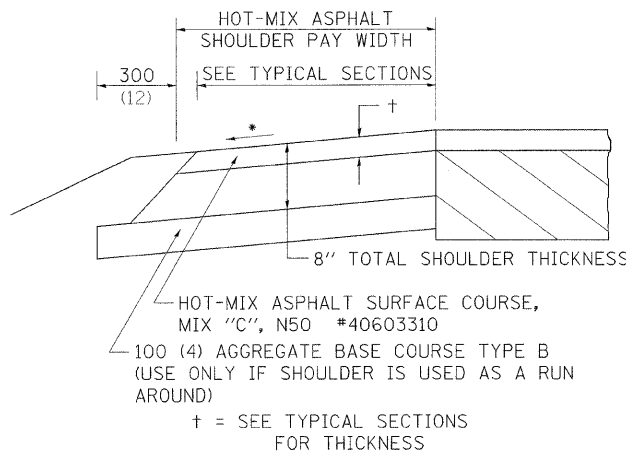
THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N50 AND SQUARE METER (SQUARE YARD) FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED. THE REMOVAL & REINSTALLATION OF THE GUARDRAIL WILL BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50.

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

REVISED - 11-01-07

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL 23.4

HOT-MIX ASPHALT SHOULDER



GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

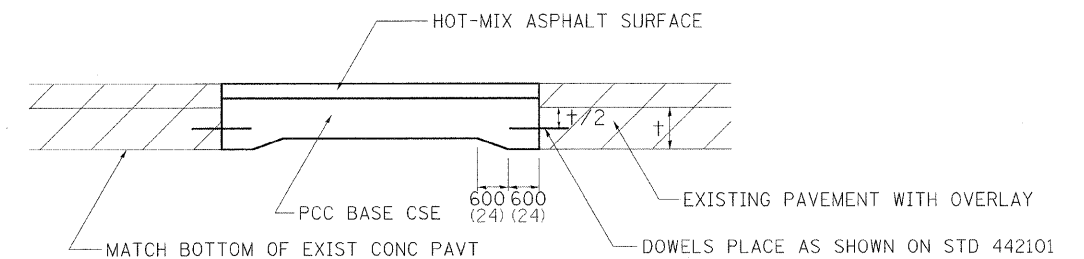
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

† = SEE TYPICAL SECTIONS FOR THICKNESS

REVISED - 11-01-07

HOT-MIX ASPHALT SHOULDER 23.4a

PORTLAND CEMENT CONCRETE BASE COURSE DETAIL



GENERAL NOTES

THE LONGITUDINAL JOINT & BASE COURSE SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD 353001.

PAVEMENT FABRIC SHALL BE PLACED IN ACCORDANCE WITH STANDARD 420601.

THE BASE COURSE SHALL BE TIED TO THE EXISTING PAVEMENT AS SHOWN WITH DOWEL BARS AS SHOWN IN STANDARD 442101. THIS COST TO BE INCLUDED IN THE COST OF THE BASE COURSE.

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

REVISED - 10-10-06

PORTLAND CEMENT CONCRETE BASE COURSE DETAIL 24.4

TABLE OF BARS

PAVEMENT THICKNESS	DOWEL BAR DIAMETER	HOLE DIAMETER
200 or greater (8)	38 (1 1/2)	41 (1 5/8)
180 thru 199 (7) (7.99)	32 (1 1/4)	35 (1 3/8)
Less than 180 (7)	25 (1)	29 (1 1/8)

10 BARS FOR 12' PAVEMENT
12 BARS FOR 14' PAVEMENT
14 BARS FOR 16' PAVEMENT

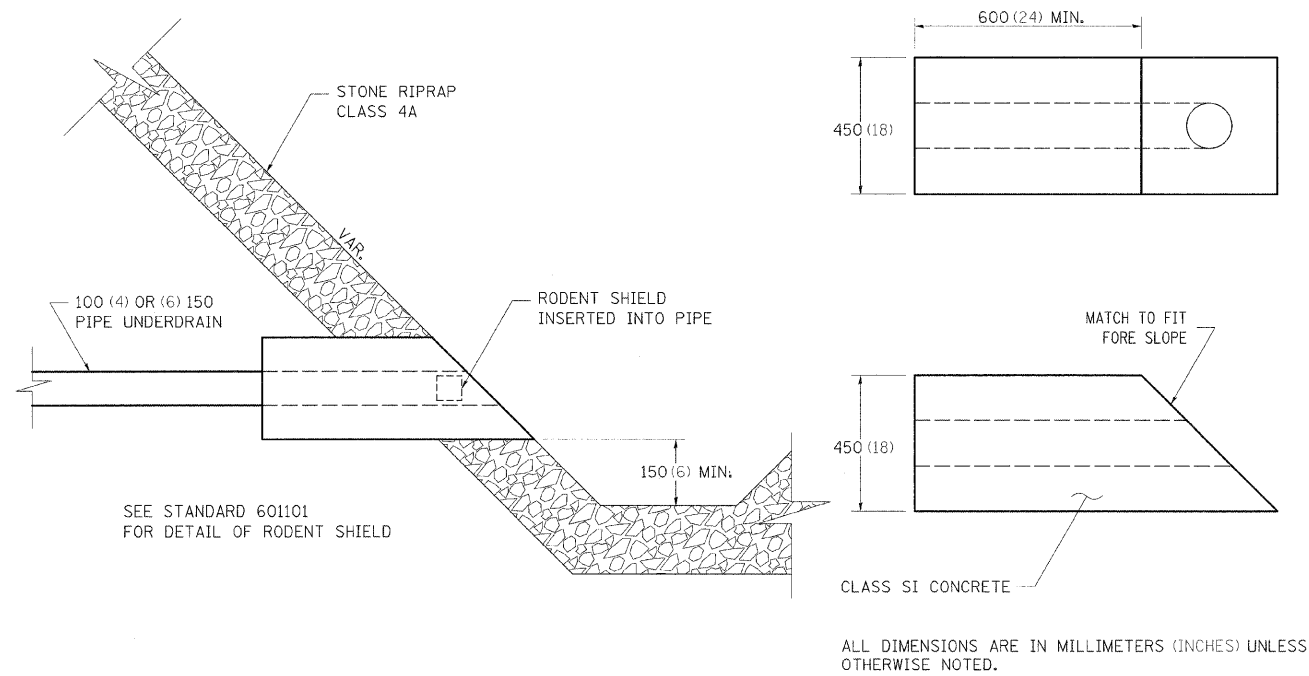
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PLOT SCALE = 1:50
USER NAME = J.Fraeney
MODEL = Dist Std 17

REVISED -	REVISED -	REVISED -	REVISED -	REVISED -	SCALE: 1:50	SHEET NO. OF SHEETS	STA. TO STA.	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. 505	SECTION *	COUNTY STEPHENSON	TOTAL SHEETS 335	SHEET NO. 179	CONTRACT NO. 64970
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*111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)T-1

FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT

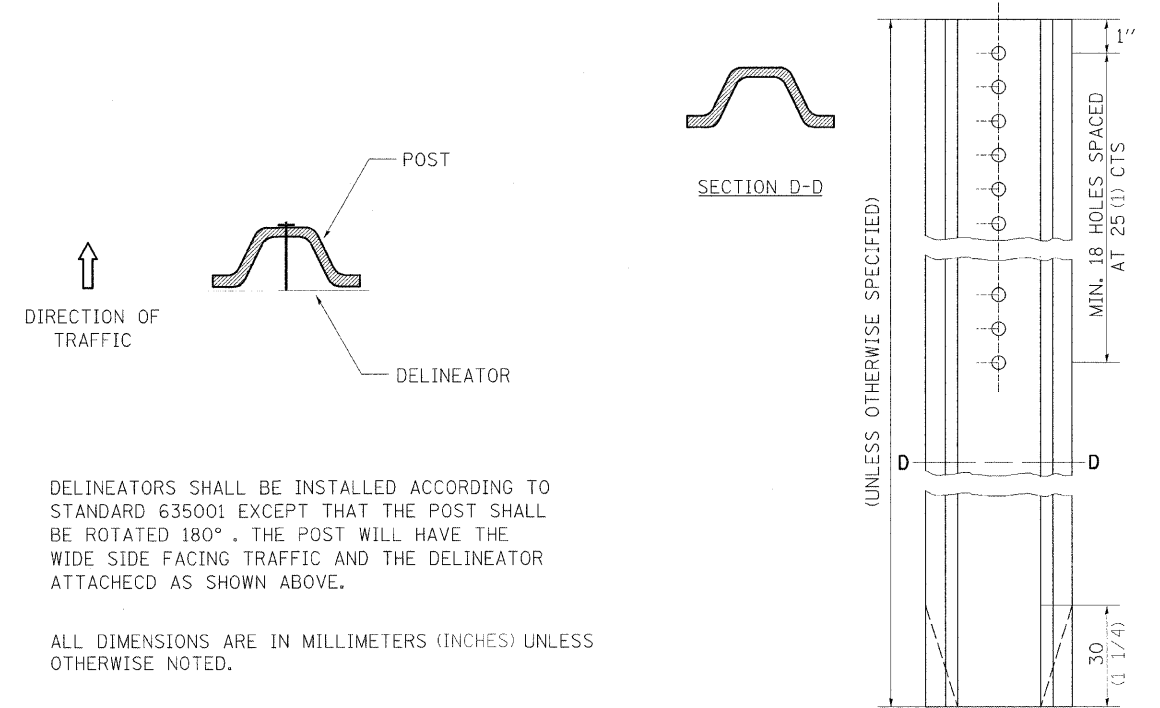
CONCRETE HEADWALLS FOR PIPE DRAINS



REVISED - 10-15-04

CONCRETE HEADWALLS FOR PIPE DRAINS 27.4

DELINEATOR AND POST ORIENTATION



REVISED - 11-01-07

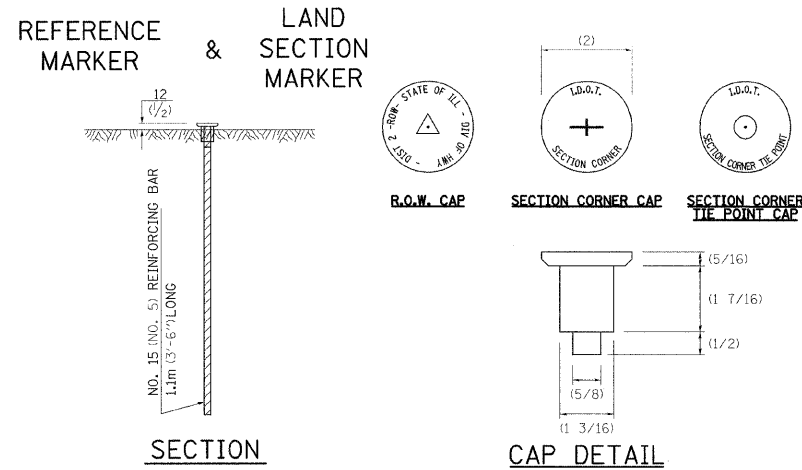
DELINEATOR AND POST ORIENTATION 37.4

PLOT DATE = 3/2/2009
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 USER NAME = JTracy
 MODEL = Dist Std 18

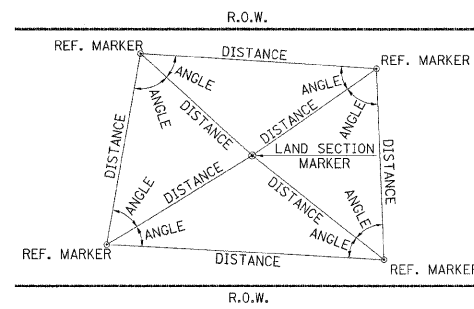
*11RS-4, 111BR-1, Ya-15d-RS-1,& (W-15d)T-1

REVISED -	REGION 2 / DISTRICT 2 STANDARD				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -					505	.	STEPHENSON	335	180
REVISED -					CONTRACT NO. 64970				
REVISED -					FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				
SCALE: 1:50	SHEET NO.	OF	SHEETS	STA.	TO STA.				

LAND SECTION & REFERENCE MARKERS



METHOD OF REFERENCING MARKERS



METHOD OF REFERENCING POINTS

REFERENCE MARKERS SHALL BE USED TO TIE IN PERMANENT LAND SECTION AND 1/4 SECTION CORNERS. WHERE LAND SECTION MARKERS FALL IN THE SHOULDERS OR GRAVEL SURFACES, THE TOP OF THE BAR SHALL BE KEPT 75(3) BELOW THE SURFACE. LAND SECTION MARKERS LOCATED IN TRAFFIC LANES SHALL NOT BE REPLACED.

METAL CAPS SHALL BE PLACED ON TOP OF THE REINFORCEMENT BAR. THERE ARE 3 TYPES OF CAPS, ONE FOR THE RIGHT-OF-WAY CORNERS, ONE FOR THE SECTION CORNERS AND ONE FOR THE SECTION CORNER TIE POINTS. THE CAPS WILL BE SUPPLIED BY IDOT, CALL CHIP CORDELL (815) 284-5370 A MINIMUM OF ONE WEEK BEFORE THE CAPS ARE NEEDED

REVISED - 4-22-05

- USE INSTRUMENT TIES TO NEARBY LAND-MARKS (STEEPLES, TOWERS, SILOS, ETC...)
- IN CULTIVATED FIELDS, SET 600(2') OR MORE BELOW GROUND SURFACE.
- IN FENCE LINE OR PROTECTED AREA SET TOP AT GROUND LEVEL.

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

LAND SECTION & REFERENCE MARKERS 63.4

LETTERING FOR NAME PLATE

STATION
BUILT 200 BY
STATE OF ILLINOIS
RTE. SEC.
FA PROJECT
LOADING HS 20
STR. NO.

SEE STD. 515001

STATION	STRUCTURE NO.
10448+72	089-1090
10584+05	089-1091
10655+41	089-1092
10670+72	089-1100
10710+42	089-1069
10714+46	089-1094
10767+68	089-1101
10813+56	089-1093
10854+01	101-1094

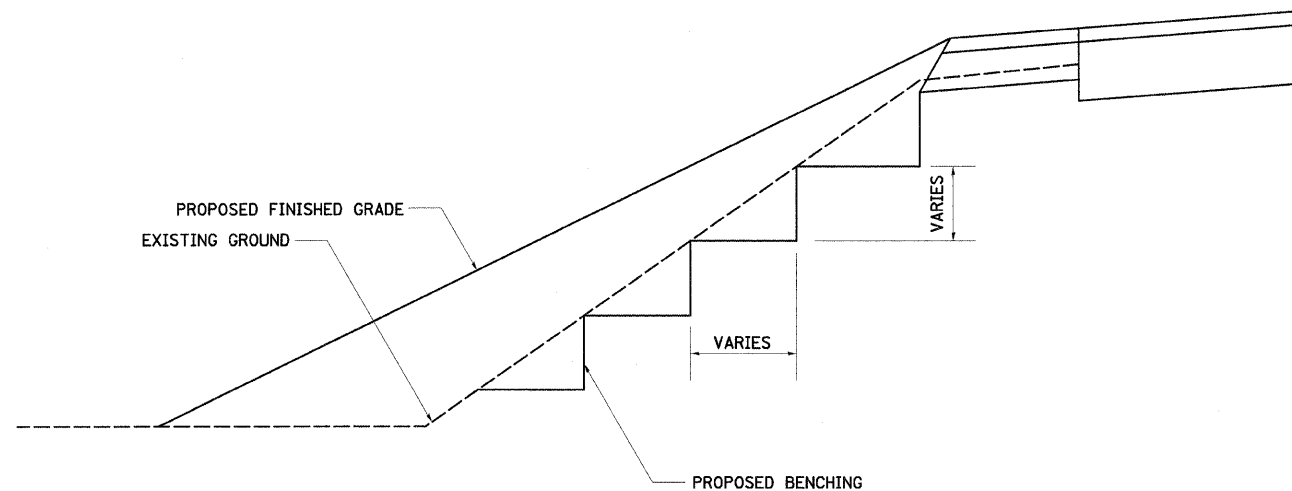
STATION	STRUCTURE NO.
10894+20	101-1320
10968+79	101-2048
10990+83	101-1088
10998+25	101-1319
11025+71	101-2049
11054+39	101-1083
11075+29	101-1082
109+39	101-1089
114+42	101-1051

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

REVISED - 11-01-07

LETTERING FOR NAME PLATE 89.4

TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

TREE REPLACEMENT SCHEDULE

CODE NUMBER	SCIENTIFIC NAME	COMMON NAME	SIZE	UNIT	QUANTITY
A2006514	QUERCUS BICOLOR	SWAMP WHITE OAK	1 3/4" CALIPER B&B	EACH	10
A2006714	QUERCUS MACROCARPA	BUR OAK	1 3/4" CALIPER B&B	EACH	15
A2007814	TILIA AMERICANA	AMERICAN LINDEN/BASSWOOD	1 3/4" CALIPER B&B	EACH	15
B2000562	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	4' HEIGHT, SHRUB FORM, B&B	EACH	24
B2004514	MALUS RED JEWEL	RED JEWEL CRABAPPLE	1 3/4" CALIPER B&B	EACH	25
B2004814	MALUS SARGENTII	SARGENT CRABAPPLE	1 3/4" CALIPER B&B	EACH	30
C2001748	CORNUS SERICEA	CARDINAL REDOSIER DOGWOOD	4' HEIGHT, SHRUB FORM, B&B	EACH	50
D2002272	PICEA PUGENS GLAUCA	COLORADO BLUE SPRUCE	6' HEIGHT, CALIPER B&B	EACH	15
D2003172	PSUEDOTSUGA MENZIESII	DOUGLAS FIR	6' HEIGHT, CALIPER B&B	EACH	10

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

REVISED - 8-10-05

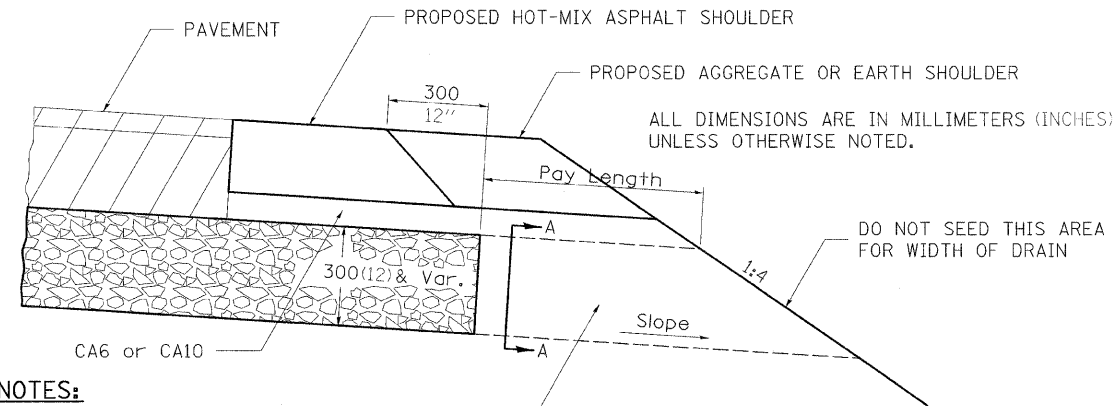
TREE REPLACEMENT SCHEDULE 90.4

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USER NAME = J Tracey
MODEL = Dist Std 19

REVISED -	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		505	*	STEPHENSON	335	181
REVISED -		SCALE: 1:50	SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 64970	
REVISED -		FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

*111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)T-1

DRAIN FOR AGGREGATE BASE COURSE



NOTES:

The rock outlets shall be constructed using CA7 and will be paid for at the contract unit price per m² (SQ. YD.) for DRAIN FOR AGGREGATE BASE COURSE. The thickness shall be the same as the adjacent sub-base material as noted on the plans and shall include the cost of the filter fabric. The Rock outlets will be measured in m² (SQ. YD.), the width being 900 (36) by the length shown above. The cost of the CA6 or CA10 under the shoulder shall be included in the contract unit price per m² (SQ. YD.) for SUB-BASE GRANULAR MATERIAL, TYPE A of the thickness specified. The filter fabric to be used shall conform to the filter fabric used for Riprap.

ROCK OUTLET AT ALL LOW POINTS TO BE 900 (36) WIDE AND EXTEND TO FORESLOPE



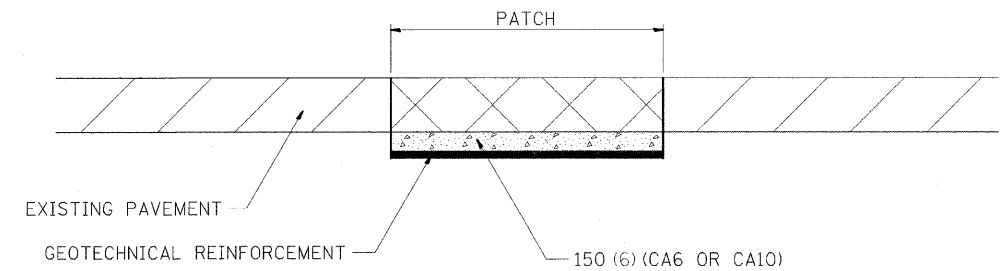
NOTE: Slope same as shoulder with 2% min.

REVISED - 10-10-06

X0325519

DRAIN FOR AGGREGATE BASE COURSE 96.4

SUBGRADE REPLACEMENT



NOTES:

THE CA 6 OR CA 10 SHALL BE COMPACTED IN A MANNER APPROVED BY THE ENGINEER. IF THE MOISTURE CONTENT OF THE MATERIAL IS SUCH THAT COMPACTION SATISFACTORY TO THE ENGINEER CANNOT BE OBTAINED, SUFFICIENT WATER SHALL BE ADDED SO THAT SATISFACTORY COMPACTION CAN BE OBTAINED.

THE CA 6 OR CA 10 WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU YD FOR GRANULAR SUBGRADE REPLACEMENT

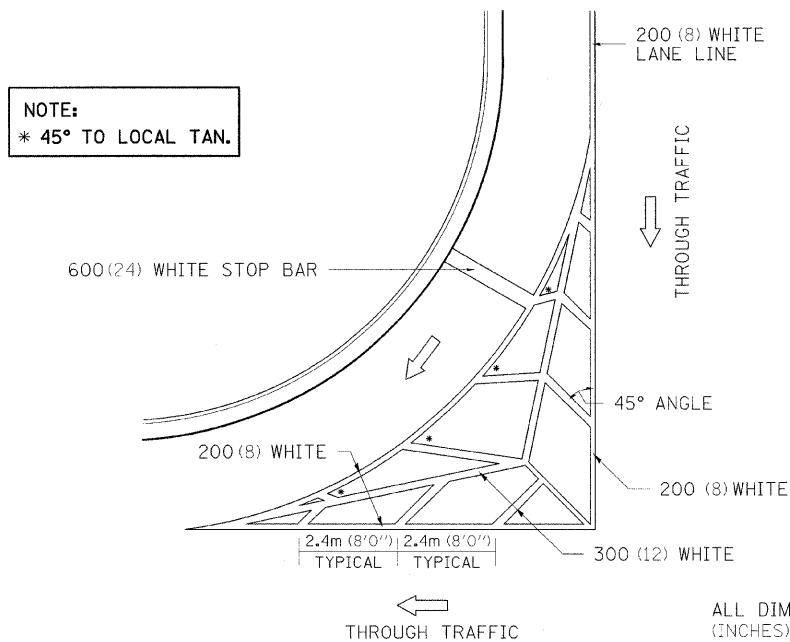
THE GEOTECHNICAL REINFORCEMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ YD FOR GEOTECHNICAL REINFORCEMENT

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

REVISED - 1-09-08

SUBGRADE REPLACEMENT 97.4

TYPICAL MARKING FOR PAINTED ISLANDS



NOTE:
* 45° TO LOCAL TAN.

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

REVISED - 2-7-05

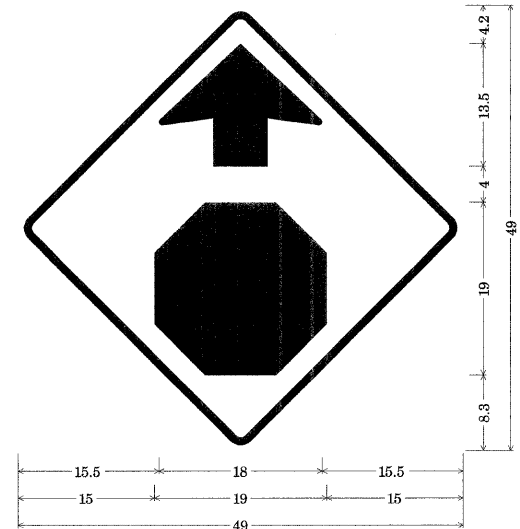
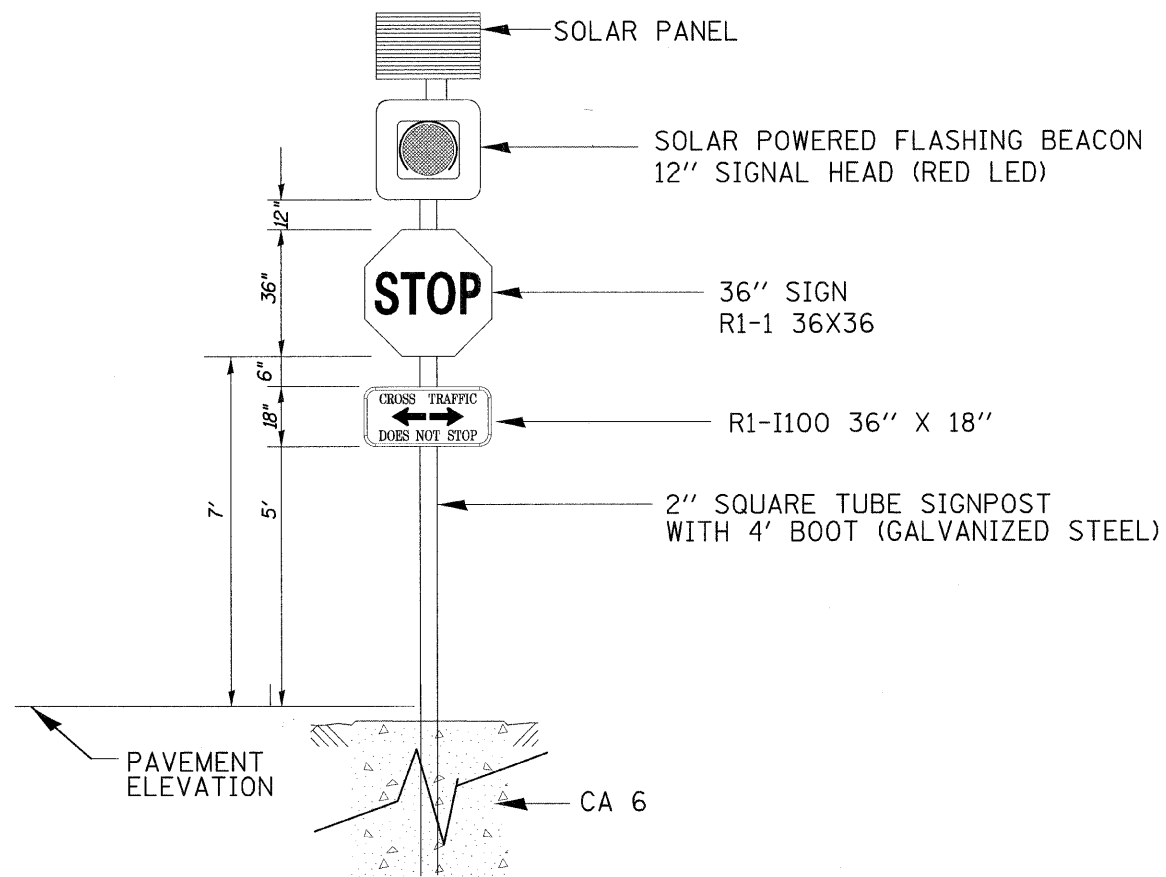
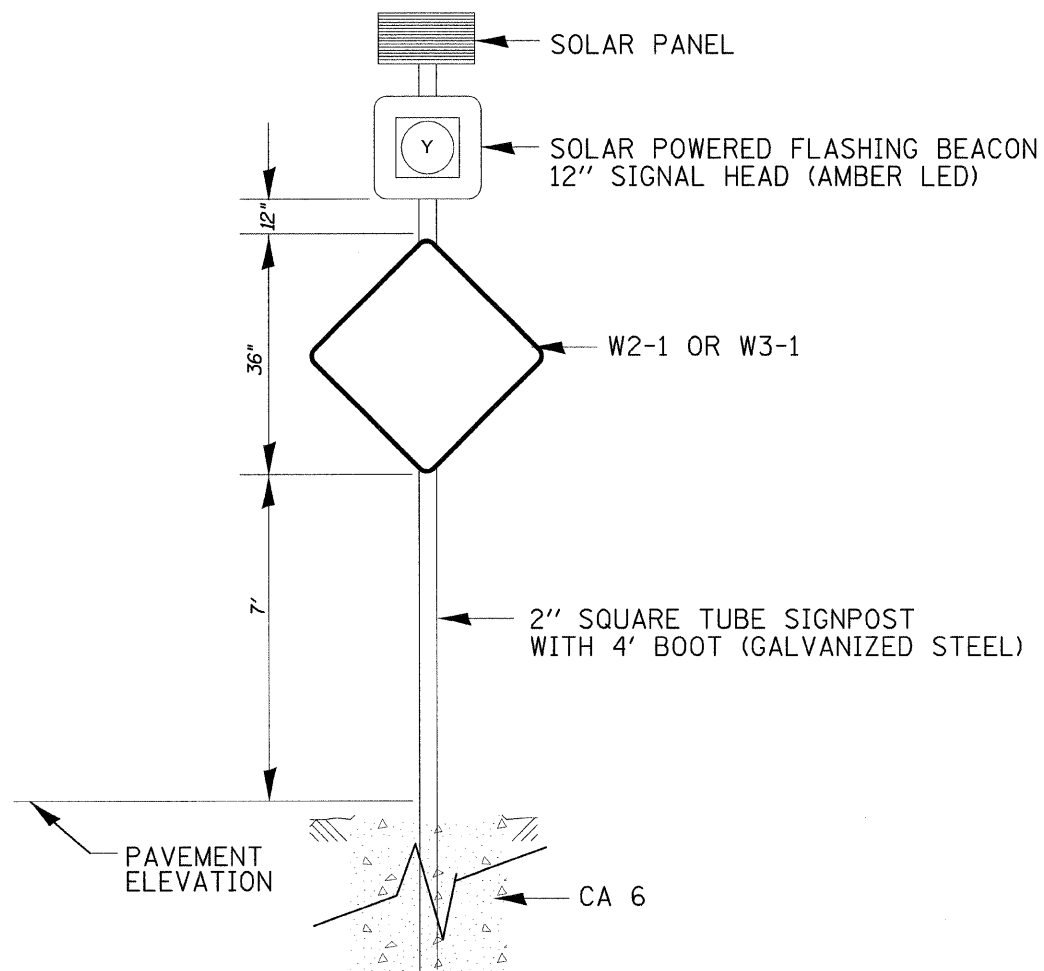
TYPICAL MARKING FOR PAINTED ISLANDS 93.4

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 MODEL = Dwg Std 28

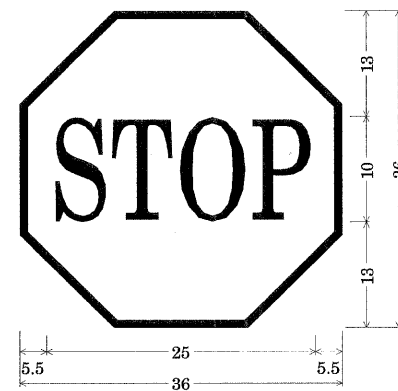
*111RS-4, 111BR-1, Ya-15d-RS-1, & (W-15d)T-1

REVISED -	REGION 2 / DISTRICT 2 STANDARD				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -					505	*	STEPHENSON	335	182
REVISED -					CONTRACT NO. 64970				
REVISED -					SCALE: 1:50 SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 2 (ILLINOIS) FED. AID PROJECT				

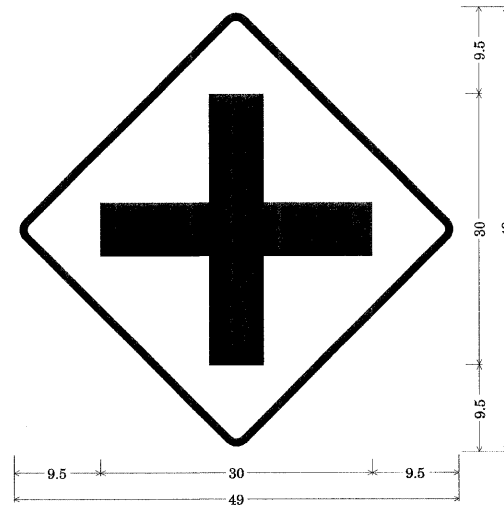
SOLAR POWER FLASHING BEACON AND SIGN DETAILS



W3-1A STD;
36.0" across sides 2.3" Radius, 0.9" Border, 0.6" Indent, Black on Yellow;
Down Arrow Custom - 13.5" 90°;
Table of letter and object lefts.



R1-1 STD;
0.8" Border, White on Red;
Type A (High Intensity) Sheeting
3 Pieces of Sign Fix Brand like material



W2-1 EXPWY;
36.0" across sides 2.3" Radius, 0.9" Border, 0.6" Indent, Black on Yellow;
Table of letter and object lefts.



3.8" Radius, 0.9" Border, 0.6" Indent, Black on White;
[CROSS TRAFFIC] C;
Standard Arrow Custom 9.4" X 5.4" 180°;
Standard Arrow Custom 9.4" X 5.4" 0°;
[DOES NOT STOP] C 50° spacing;
Type B (Engineering Grade) Sheeting
2 Pieces of Sign Fix Brand like material

NOTE:

THE CONTRACTOR SHALL SUPPLY ALL NECESSARY HARDWARE TO MOUNT THE SIGNS TO THE POST. THIS MOUNTING HARDWARE SHALL BE SIMILAR TO THE SIGN FIX BRAND MATERIAL.

NO FLASHING BEACON SIGNAL WORK SHALL BE ALLOWED TO BEGIN UNTIL ALL COMPONENTS TO COMPLETE THE WORK ARE ON THE JOB SITE.

CONTACT CHRIS ISBELL AT (815-235-7497) AT THE STEPHENSON COUNTY HIGHWAY DEPARTMENT 2 WEEKS PRIOR TO THE PLACEMENT OF SIGNS FOR STAKING AND APPROVAL

SIGNS PROVIDED BY STEPHENSON COUNTY

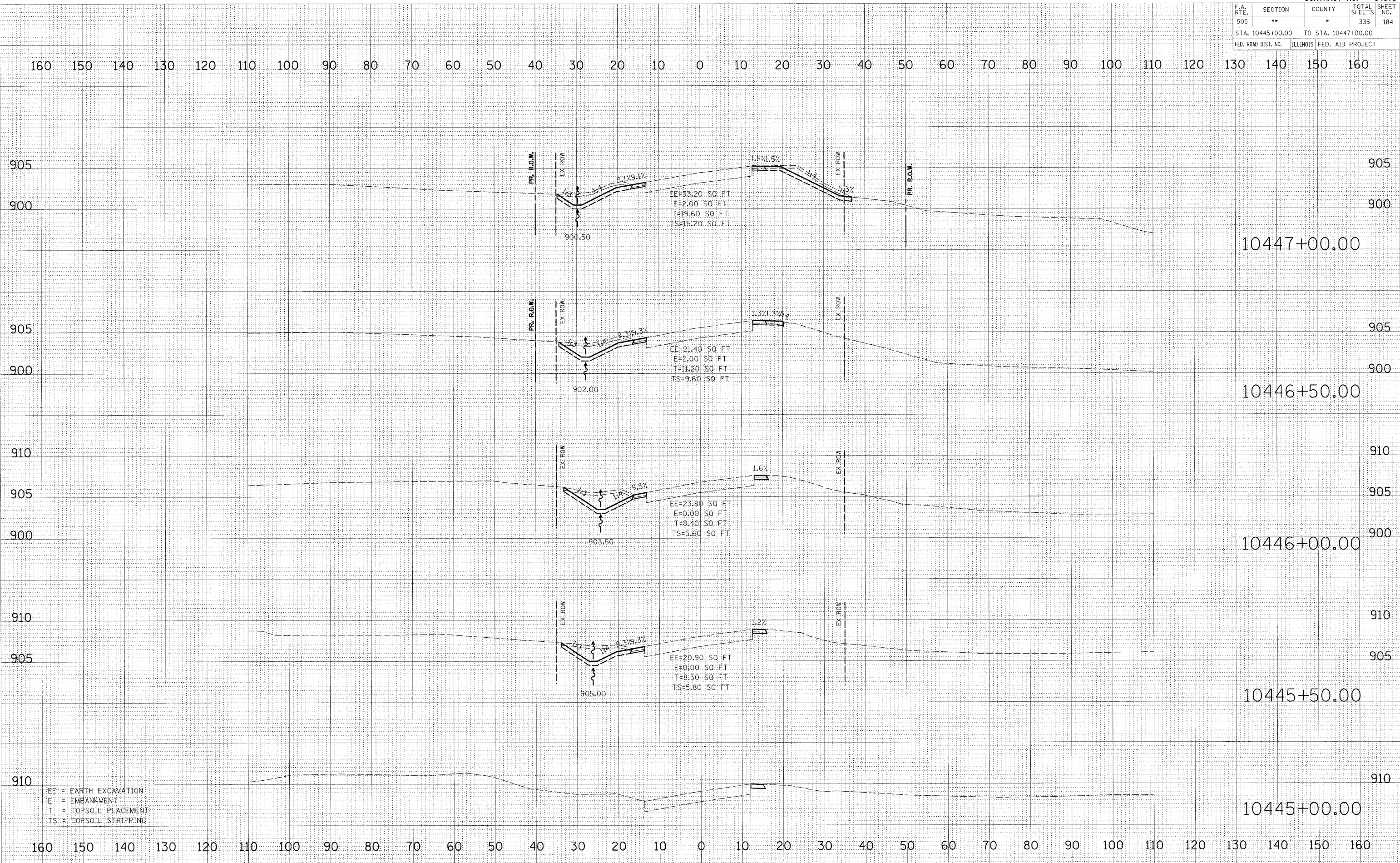
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 MODEL = Dist Std 21

FILE NAME = #FILEL\$	USER NAME = #USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOLAR - POWERED FLASHING BEACON AND SIGN DETAIL	F.A. RTE. 505	SECTION .	COUNTY STEPHENSON	TOTAL SHEETS 335	SHEET NO. 183
PLOT SCALE = 1:50		DRAWN -		SCALE: 1:50		SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 64970		
PLOT DATE = 3/2/2009		CHECKED -				FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT				
		DATE -				*111RS-4, 111BR-1, Yg-15d-RS-1, & (W-15d)T-1				

FINAL SURVEY
 SURVEYED BY
 DATE
 NO.

ORIGINAL SURVEY
 SURVEYED BY
 DATE
 NO.

PLOT DATE = 3/2/2009
 FILE NAME = I:\111RS00\1175_3p_eest\cadd\cadd\1175_3p_eest\1175_3p_eest.dwg
 PLOT SCALE = 1:10
 MODEL = XS.SHEET_1



EE = EARTH EXCAVATION
 E = EMBANKMENT
 T = TOPSOIL PLACEMENT
 TS = TOPSOIL STRIPPING

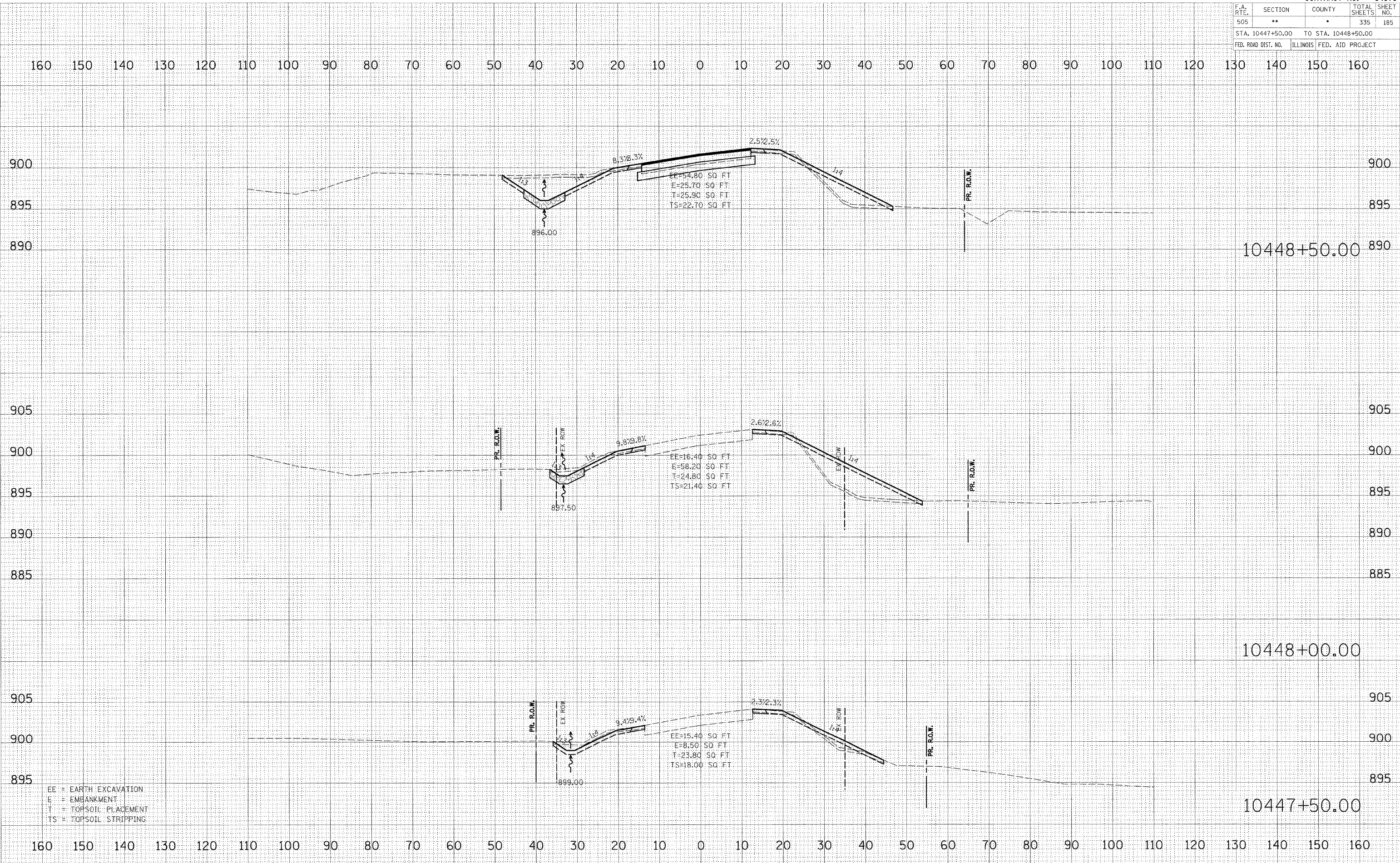
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	**	*	335	185
STA. 10447+50.00 TO STA. 10448+50.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BY	DATE

BY	DATE

ORIGINAL SURVEYED
 SURVEYED
 NOTE BOOK
 TEMPLATE
 AREAS
 AREAS CHECKED
 NO.

PLOT DATE = 3/2/2009
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 MODEL = XS.SHEET.2



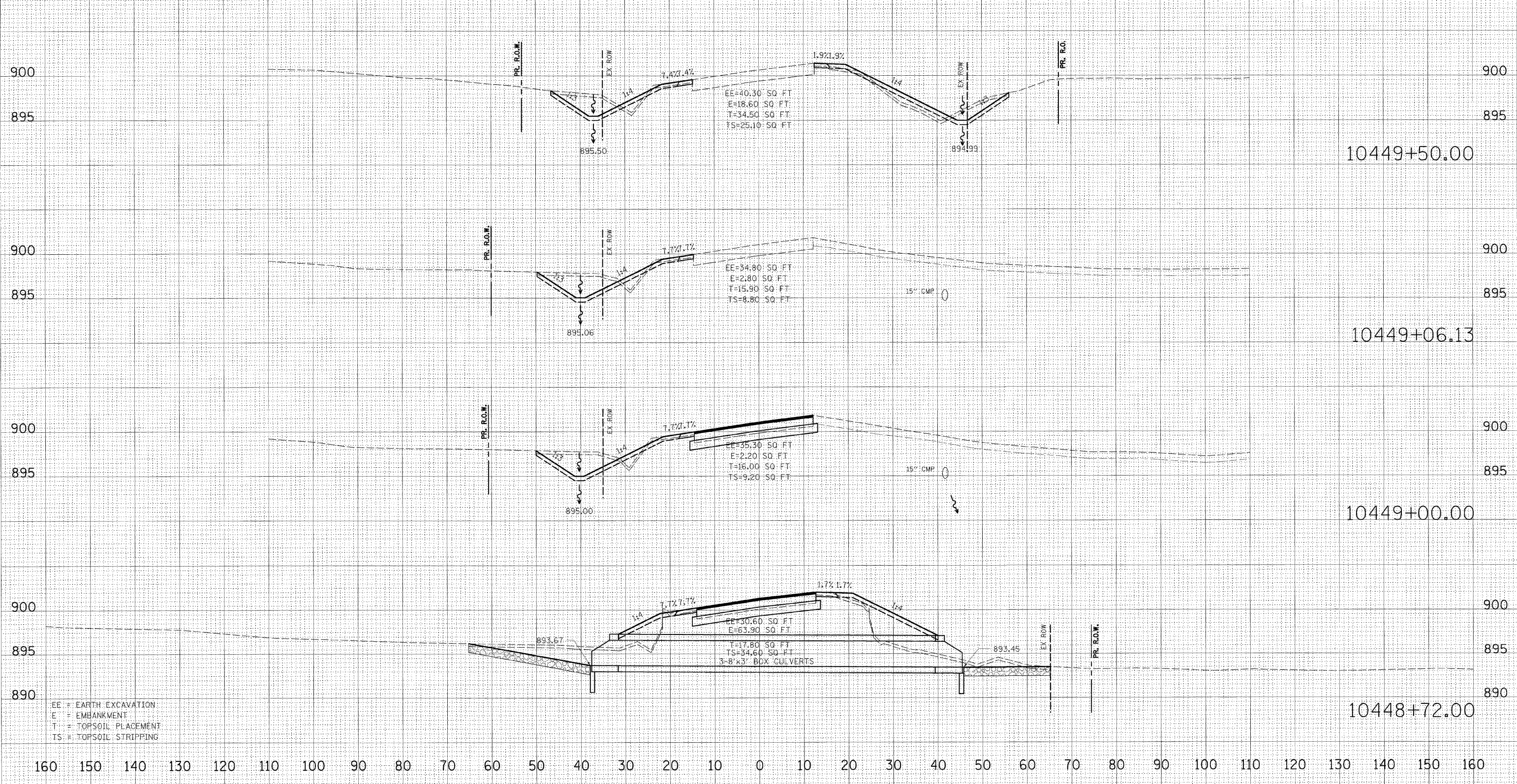
EE = EARTH EXCAVATION
 E = EMBANKMENT
 T = TOPSOIL PLACEMENT
 TS = TOPSOIL STRIPPING

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

BY _____ DATE _____
 SURVEYED _____
 CHECKED _____
 DRAWN _____
 NO. _____

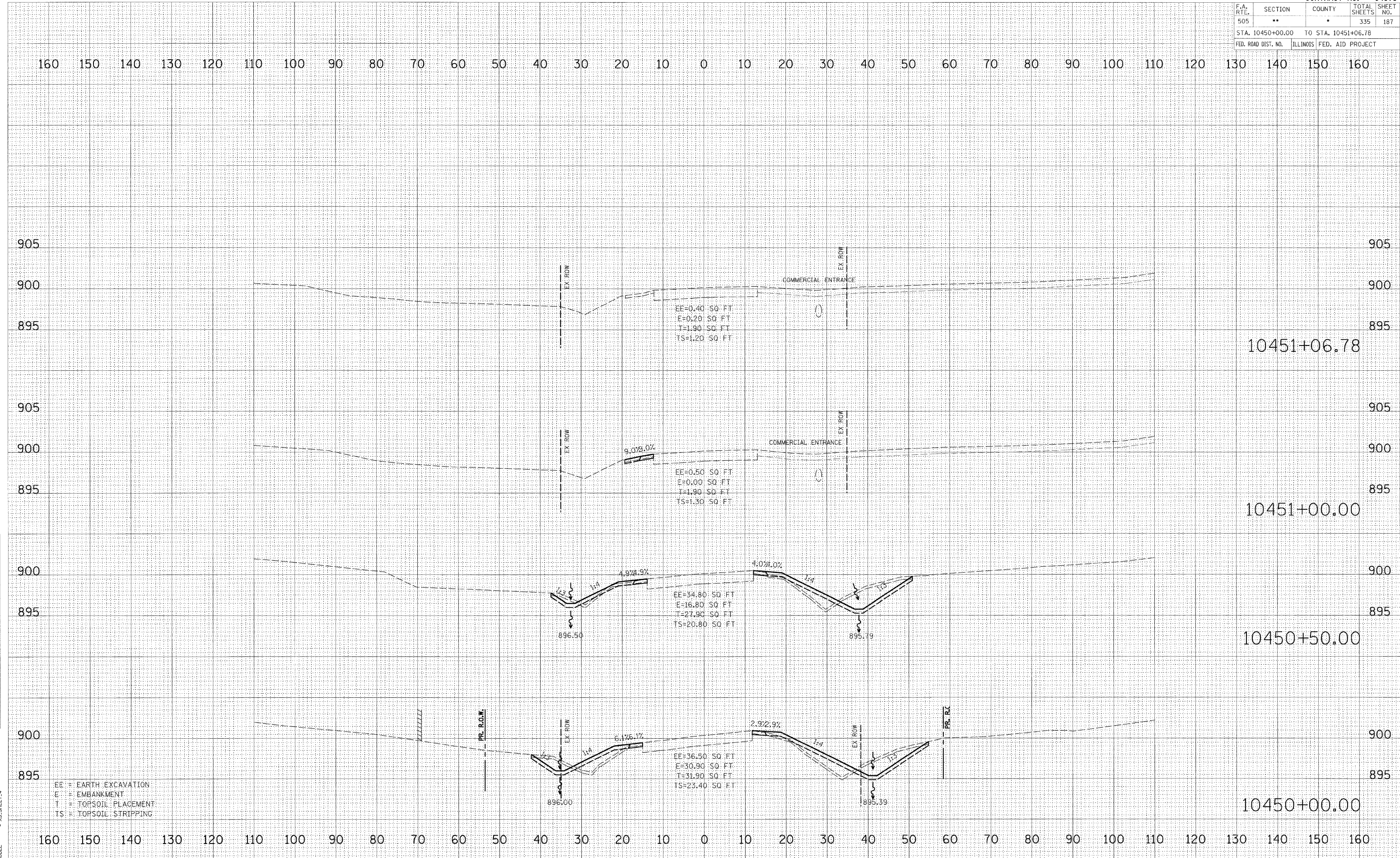
BY _____ DATE _____
 SURVEYED _____
 CHECKED _____
 DRAWN _____
 NO. _____

PLOT DATE = 3/2/2009
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 PLOT SCALE = 1"=10'
 PLOT NAME = XS SHEET 3
 MODEL = XS SHEET 3



DATE	
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SURVEYED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
FILE NAME	
USER NAME	
MODEL	



EE = EARTH EXCAVATION
 E = EMBANKMENT
 T = TOPSOIL PLACEMENT
 TS = TOPSOIL STRIPPING

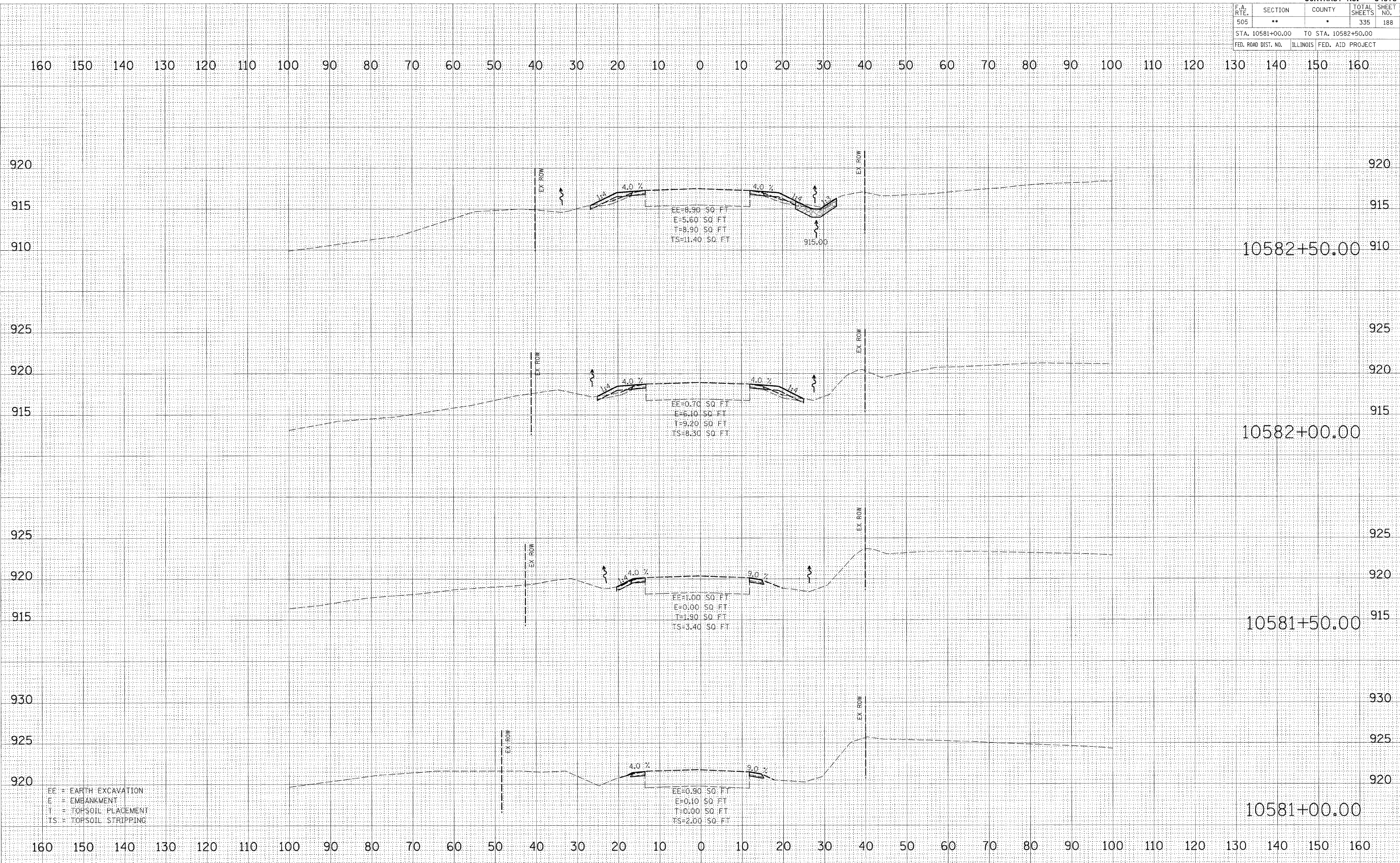
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	**	*	335	188

STA. 10581+00.00 TO STA. 10582+50.00
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

FINAL SURVEY	BY	DATE
NO. _____	_____	_____

ORIGINAL SURVEY	BY	DATE
NO. _____	_____	_____

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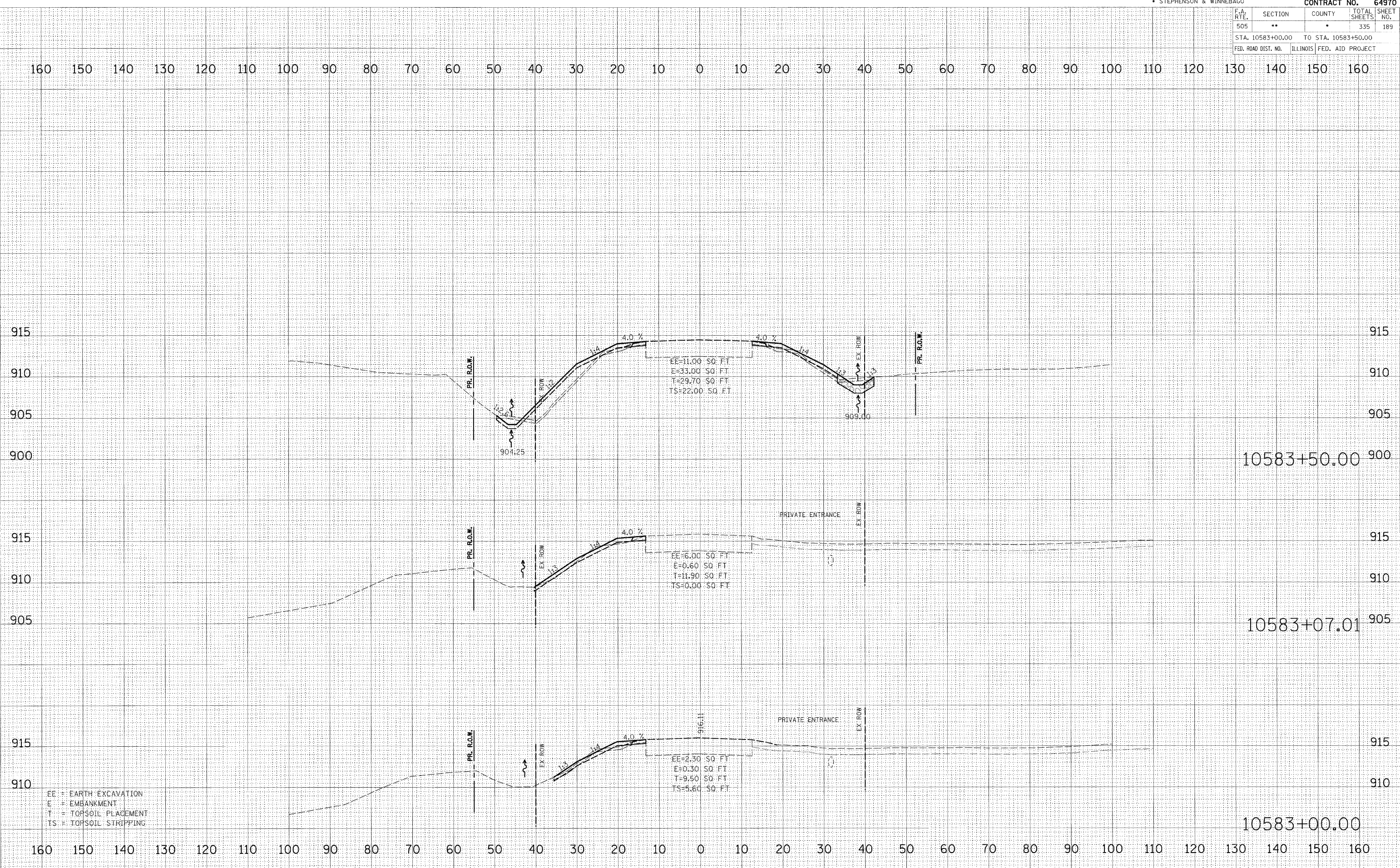


EE = EARTH EXCAVATION
 E = EMBANKMENT
 T = TOPSOIL PLACEMENT
 TS = TOPSOIL STRIPPING

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

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

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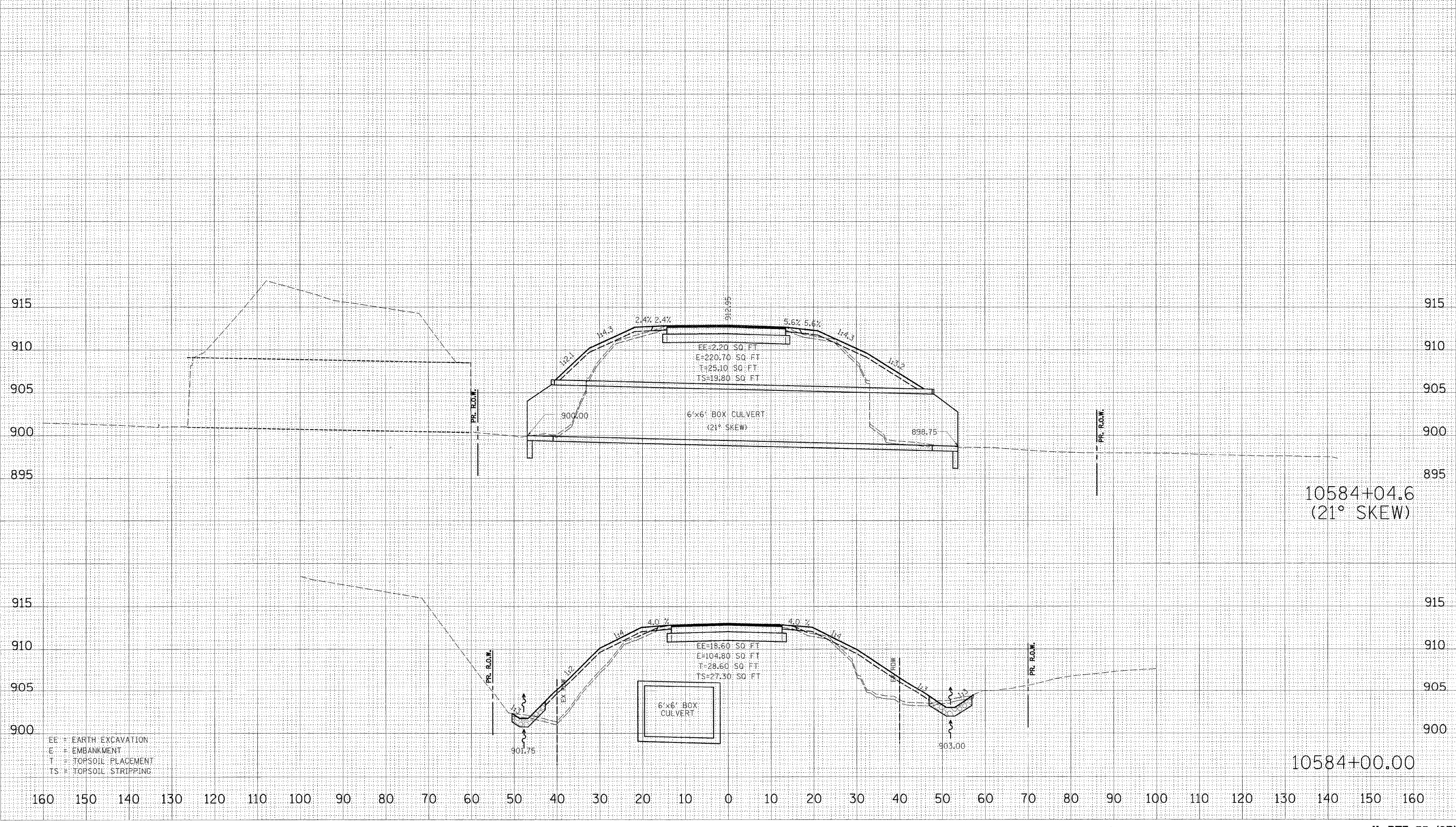


EE = EARTH EXCAVATION
 E = EMBANKMENT
 T = TOPSOIL PLACEMENT
 TS = TOPSOIL STRIPPING

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

BY: _____ DATE: _____
 SUPERVISED: _____
 CHECKED: _____
 FINAL SURVEY: _____
 NOTE BOOK: _____
 NO. _____
 AREAS CHECKED: _____

BY: _____ DATE: _____
 ORIGINAL SURVEYED: _____
 CHECKED: _____
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 USER NAME: jts
 MODEL: XS SHEET.3

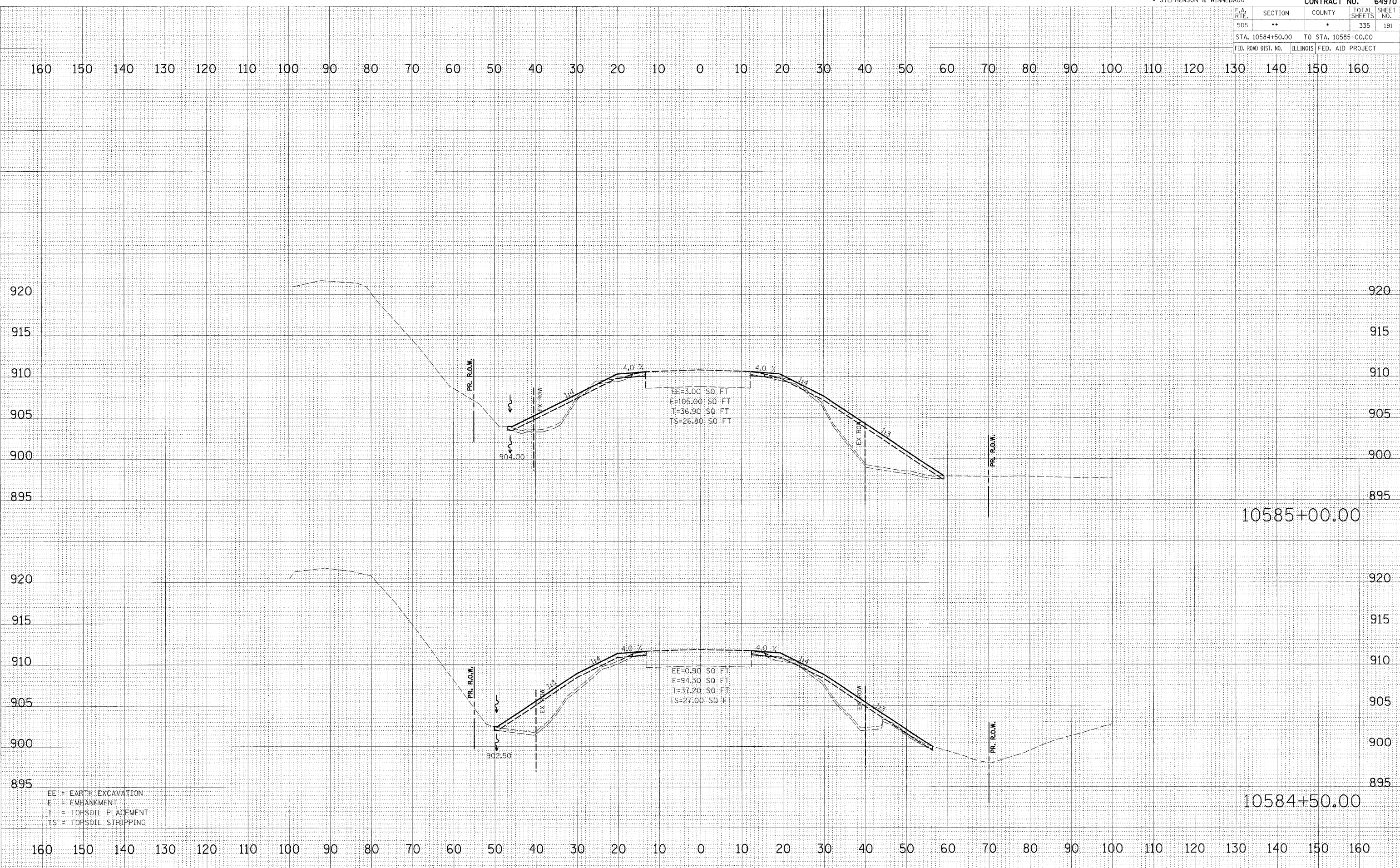


EE = EARTH EXCAVATION
 E = EMBANKMENT
 T = TOPSOIL PLACEMENT
 TS = TOPSOIL STRIPPING

FINAL SURVEYED BY DATE
 SURVEYED BY DATE
 NOTE BOOK NO. DATE
 TEMPLATES AREAS CHECKED
 NO.

ORIGINAL SURVEYED BY DATE
 SURVEYED BY DATE
 NOTE BOOK NO. DATE
 TEMPLATES AREAS CHECKED
 NO.

PLOT DATE = 3/2/2009
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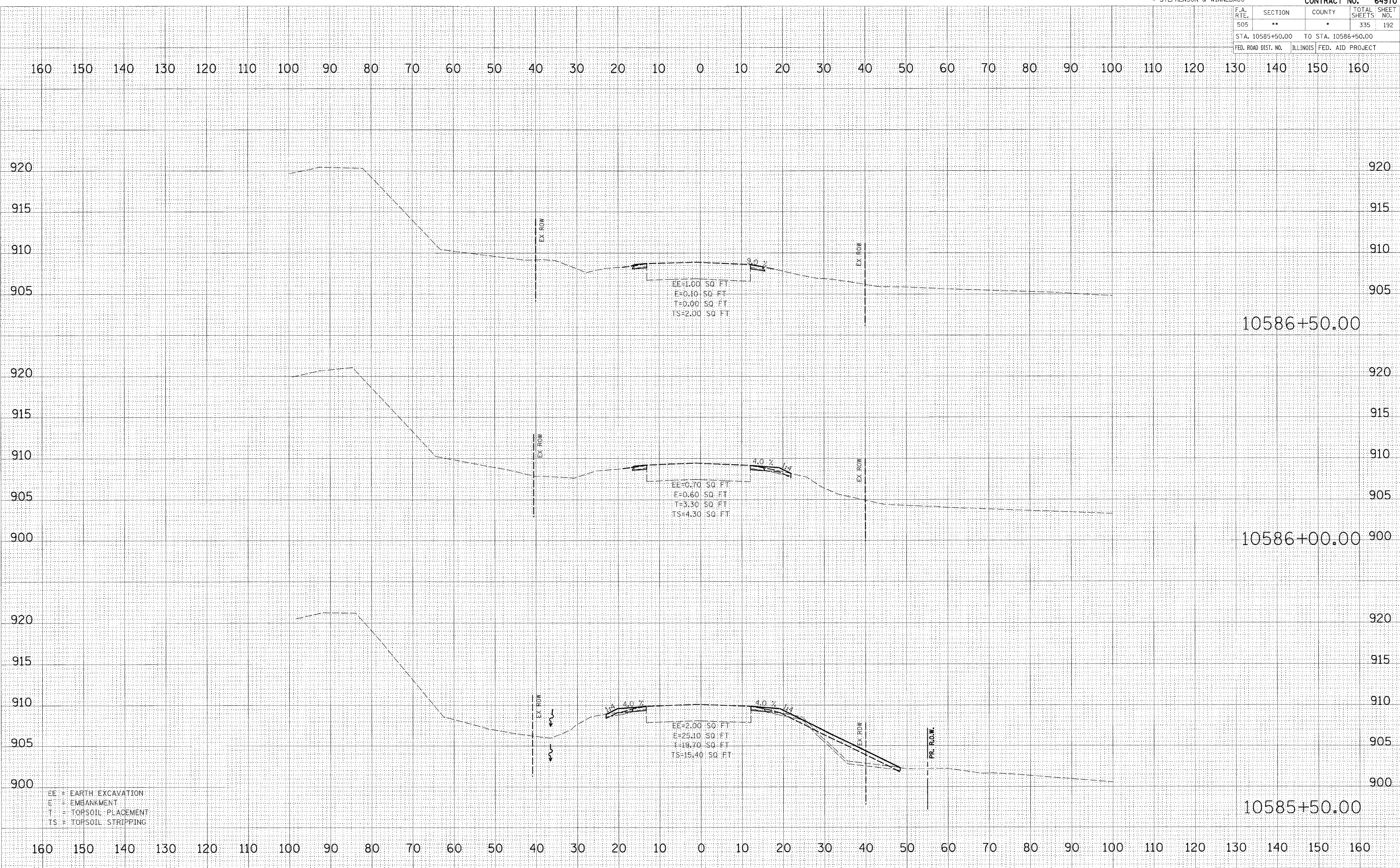


EE = EARTH EXCAVATION
 E = EMBANKMENT
 T = TOPSOIL PLACEMENT
 TS = TOPSOIL STRIPPING

BY _____ DATE _____
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 SURVEY _____
 NOTE BOOK _____
 TEMPLATE _____
 AREAS _____
 AREAS CHECKED _____
 NO. _____

BY _____ DATE _____
 SURVEYED _____
 SURVEY _____
 NOTE BOOK _____
 TEMPLATE _____
 AREAS _____
 AREAS CHECKED _____
 NO. _____

PLOT DATE = 3/2/2009
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 PLOT SCALE = 1/8"=1'-0"
 PLOT SHEET NAME = XS-SHEET-5
 MODEL

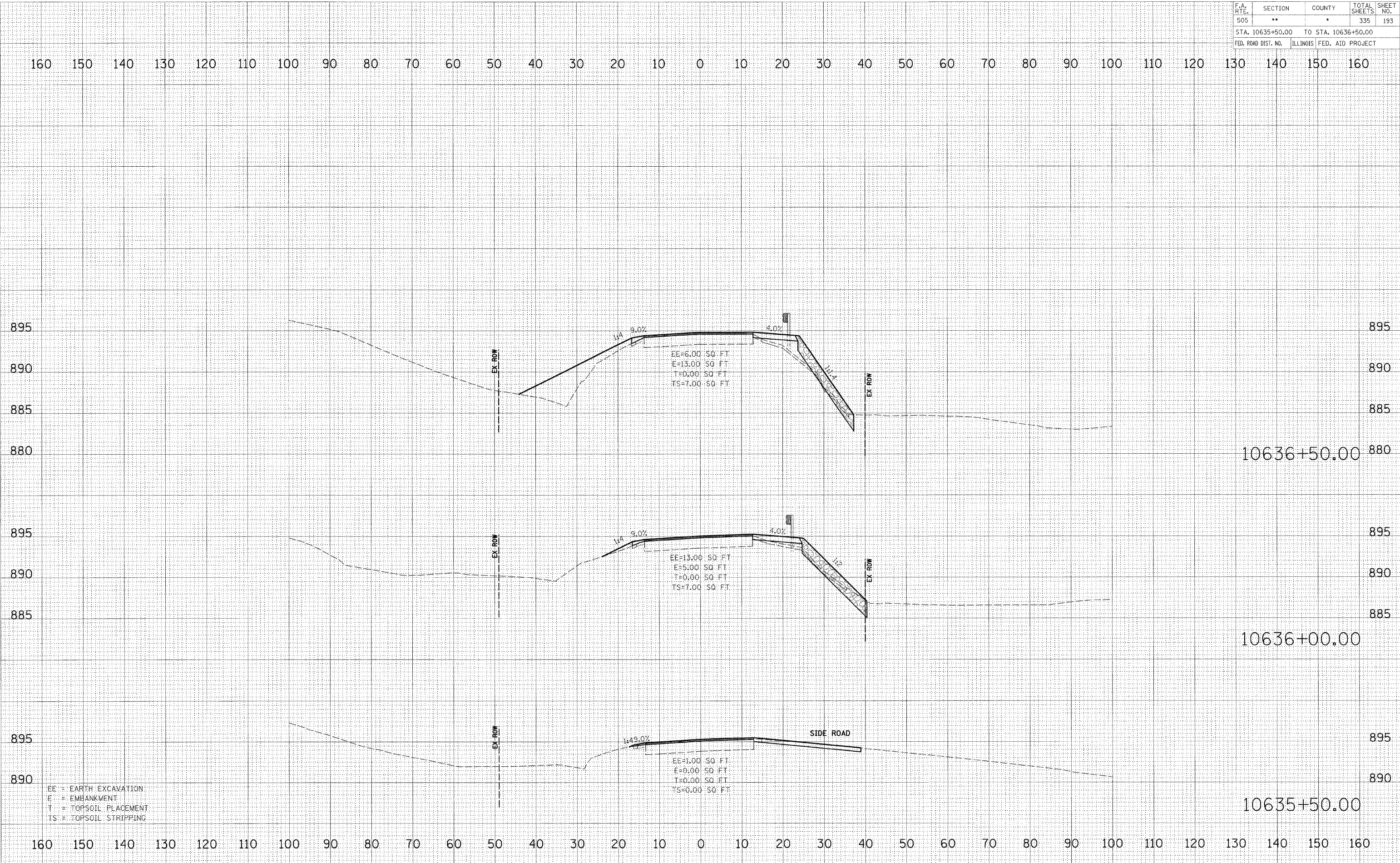


EE = EARTH EXCAVATION
 E = EMBANKMENT
 T = TOPSOIL PLACEMENT
 TS = TOPSOIL STRIPPING

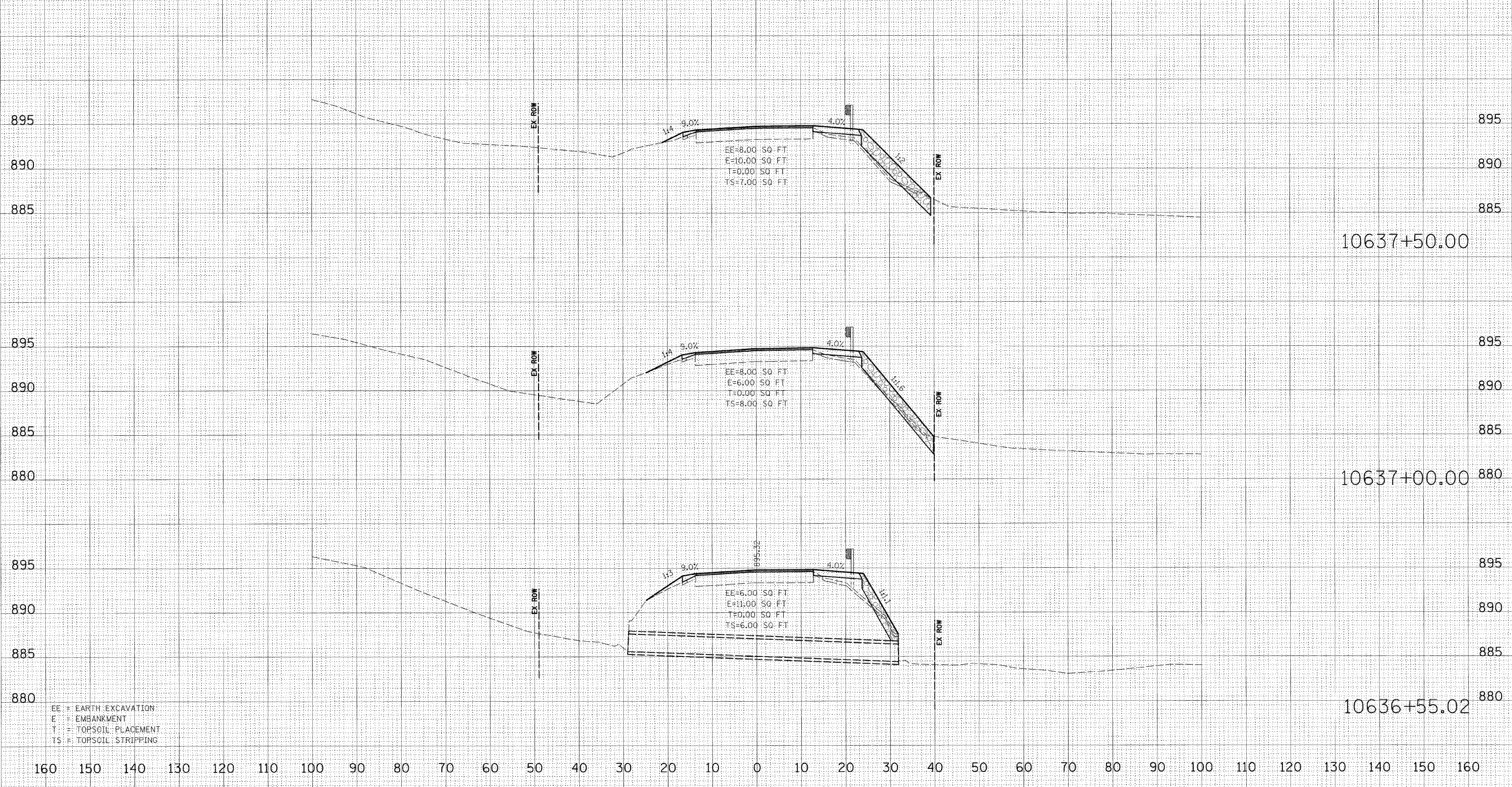
FINAL SURVEY
 SURVEYED _____ BY _____
 NOTE BOOK _____
 TEMPLATE _____
 AREAS CHECKED _____
 NO. _____

ORIGINAL SURVEY
 SURVEYED _____ BY _____
 NOTE BOOK _____
 TEMPLATE _____
 AREAS CHECKED _____
 NO. _____

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 SCALE = 1" = 40'
 USER = JAW
 MODEL = XS SHEET-1



160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160



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

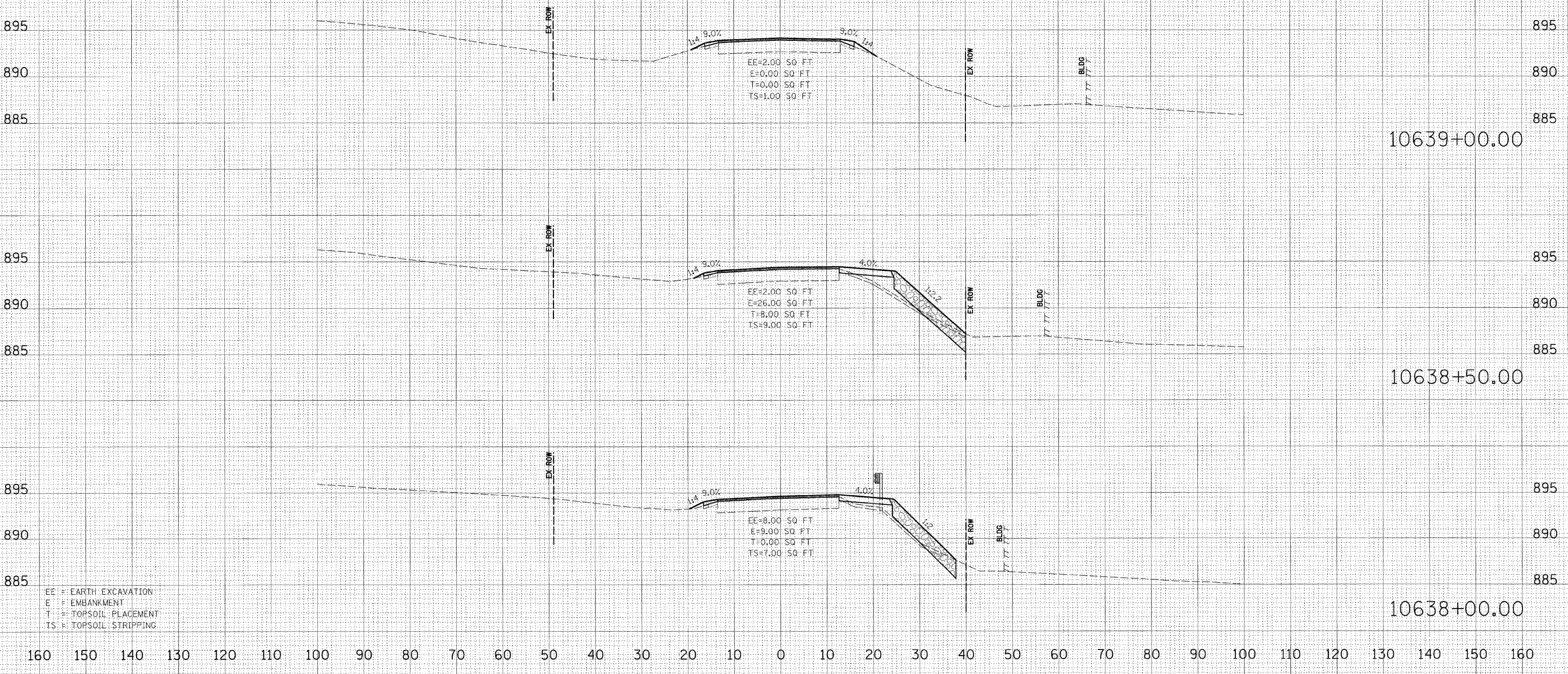
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 CHECKED _____
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 MODEL = XS SHEET - 2

EE = EARTH EXCAVATION
 E = EMBANKMENT
 T = TOPSOIL PLACEMENT
 TS = TOPSOIL STRIPPING

PLOT DATE = 3/2/2009
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 PLOT SCALE = 1"=40'
 MODEL = XS SHEET - 2

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160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160



DATE	
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SURVEYED	
ILLINOIS	
AREAS CHECKED	
NO.	

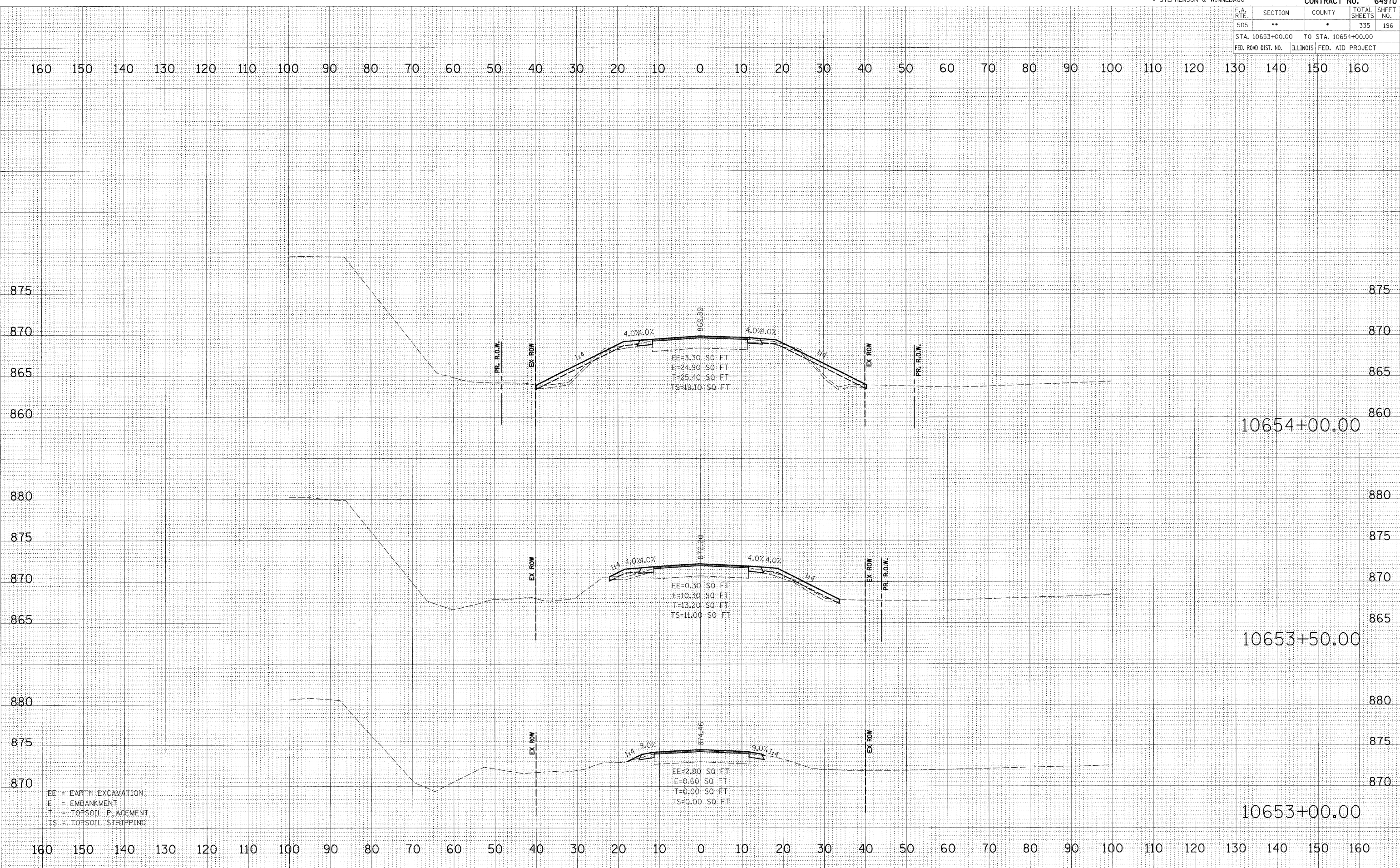
DATE	
BY	
SURVEYED	
ILLINOIS	
AREAS CHECKED	
NO.	

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 USER NAME = JTB
 MODEL = XS SHEET_3

DATE _____ BY _____
 SURVEYED _____
 CHECKED _____
 NO. _____

DATE _____ BY _____
 SURVEYED _____
 CHECKED _____
 NO. _____

PLOT DATE = 3/2/2009
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 MODEL = XS.SHEET-1

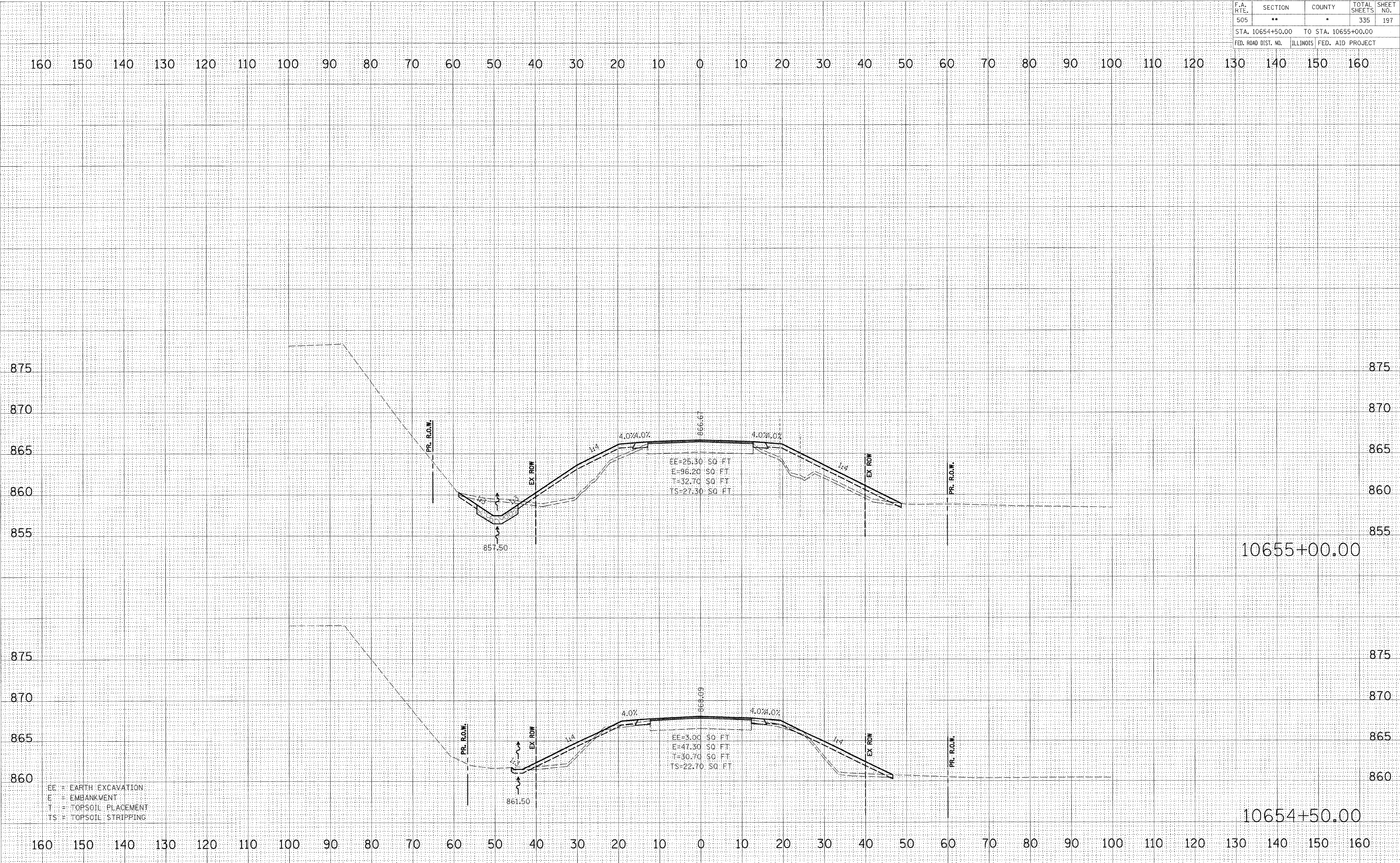


EE = EARTH EXCAVATION
 E = EMBANKMENT
 T = TOPSOIL PLACEMENT
 TS = TOPSOIL STRIPPING

DATE	BY
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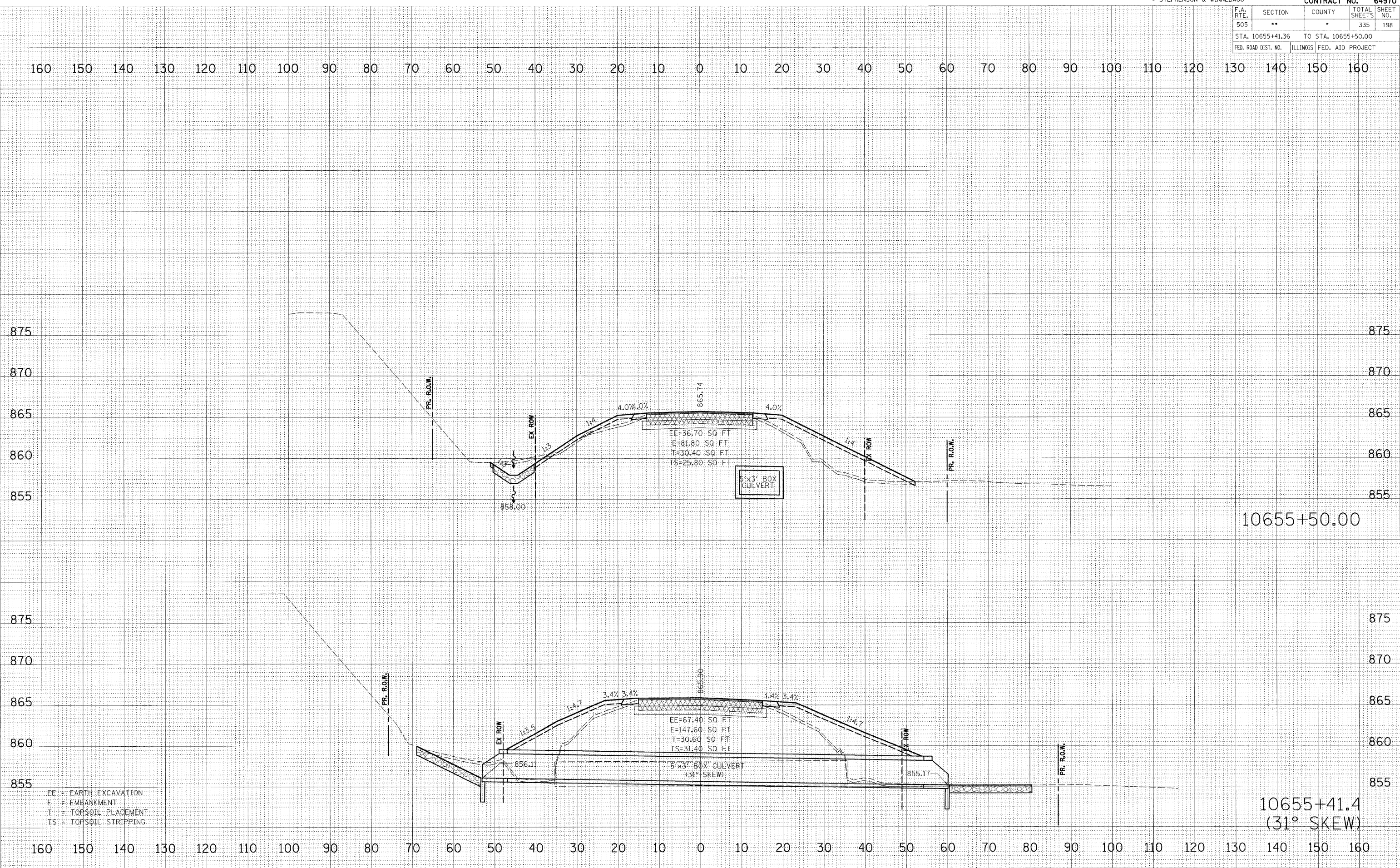
DATE	BY
SURVEYED	
NOTED	
AREAS CHECKED	
NO.	

PLOT DATE = 3/2/2009
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 USER = JLD
 MODEL = XS.SHEET.2



BY _____ DATE _____
 SURVEYED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

ORIGINAL SURVEYED _____ DATE _____
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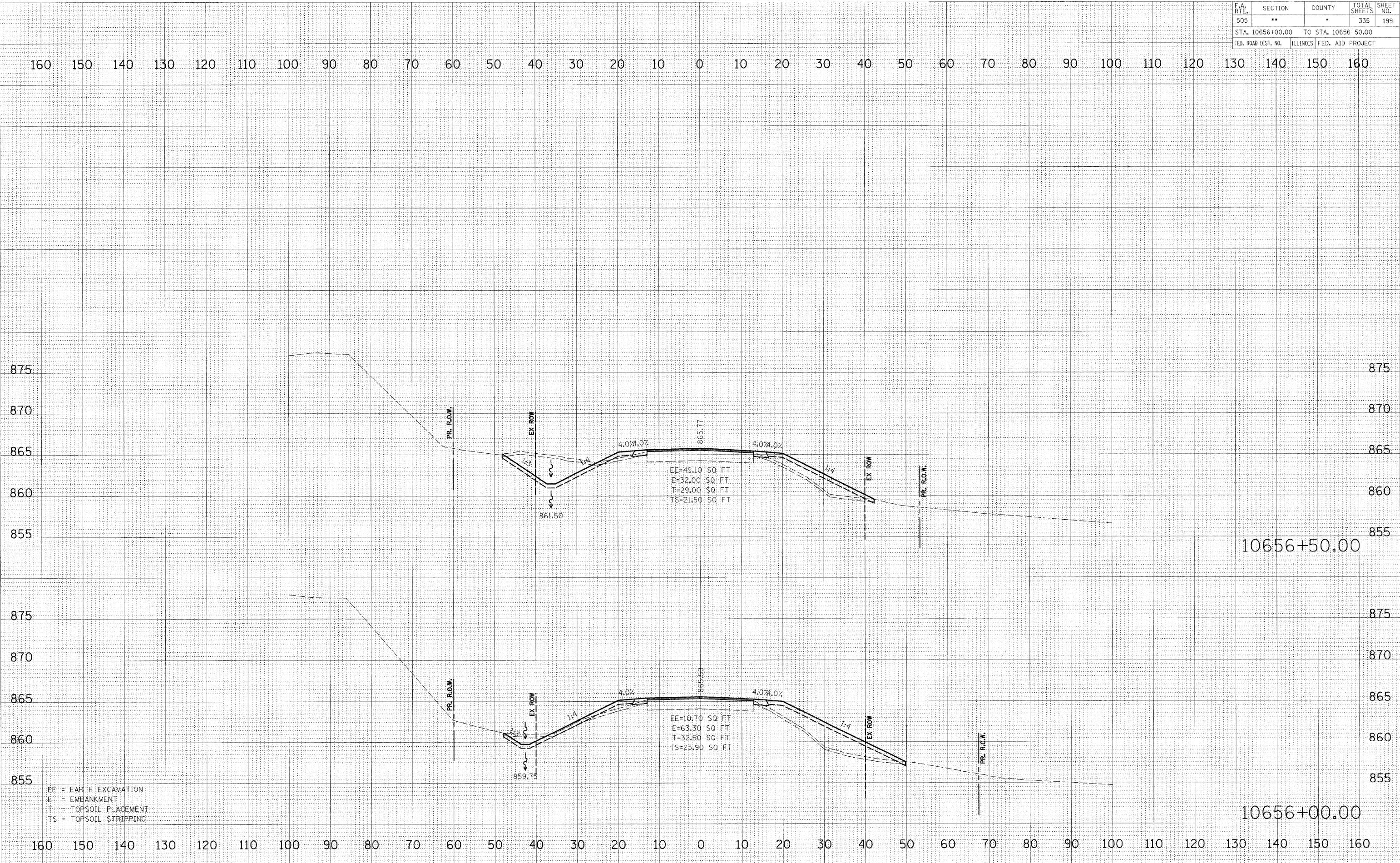


EE = EARTH EXCAVATION
 E = EMBANKMENT
 T = TOPSOIL PLACEMENT
 TS = TOPSOIL STRIPPING

FINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
NO.		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
NO.		
AREAS CHECKED		

PLOT DATE = 3/2/2009
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 USER NAME = JLD
 MODEL = XS-SHEET-4



FINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS		
AREAS CHECKED		

PLOT DATE = 3/2/2009
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 SCALE = 1" = 40'
 USER = JWH
 MODEL = XS.SHEET.1.5

