

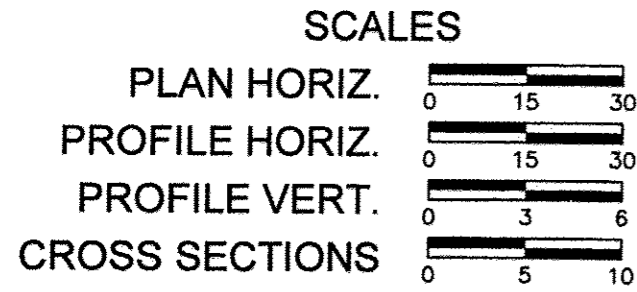
# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

## PLANS FOR PROPOSED LAND ROAD BRIDGE (TR 186)

S.T.P. BRIDGE PROGRAM  
PROJECT BROS-0165(038)  
SALINE COUNTY - HARRISBURG TOWNSHIP  
SECTION NO. 11-06120-00-BR  
JOB C-99-540-12  
CONTRACT 99530

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	1
HARRISBURG TOWNSHIP			LAND ROAD	

FUNCTIONAL CLASS: LOCAL ROAD  
ADT (2012): 50  
DESIGN SPEED: 40 MPH

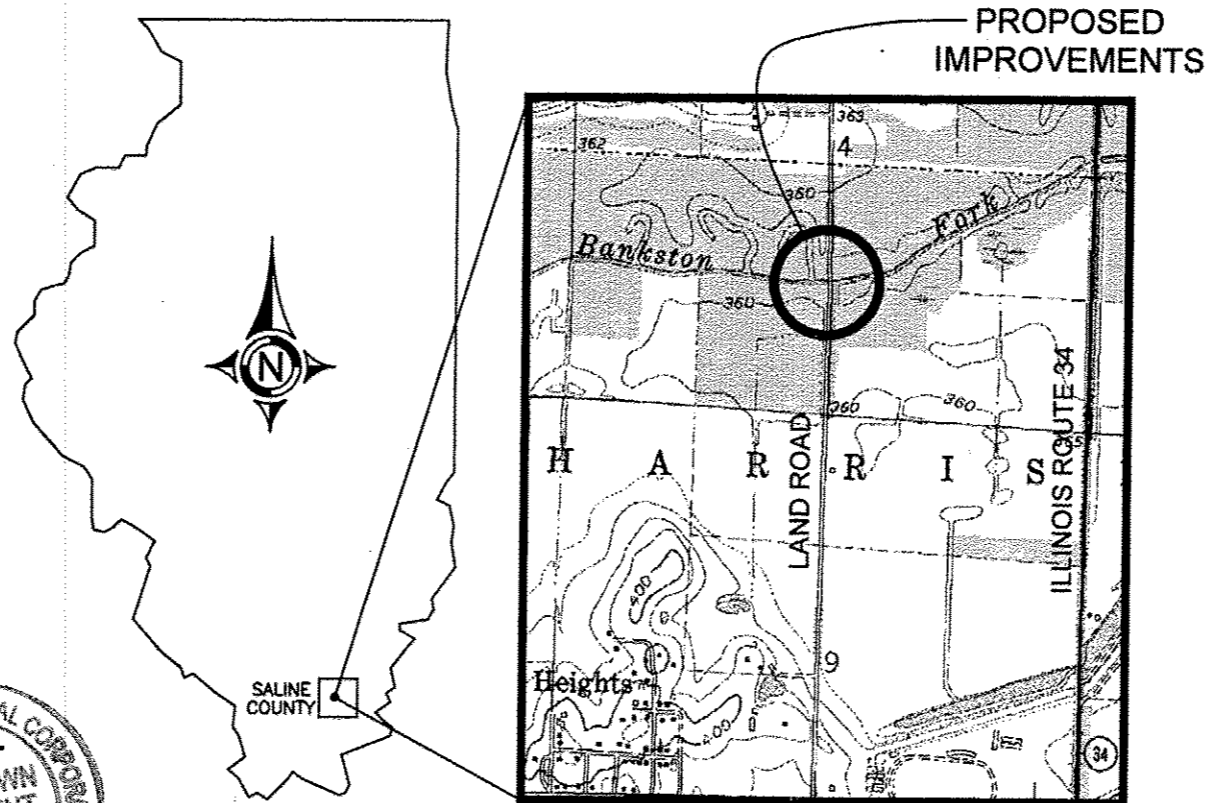


STANDARDS IN SPECIAL PROVISIONS  
280001-07  
515001-03  
701901-03  
BLR 21-9

ALL EXISTING UTILITIES AND LOCATIONS  
TO BE CONFIRMED BY J.U.L.I.E.  
800-892-0123

### INDEX TO SHEETS

- 1 COVER
- 2 SUMMARY OF QUANTITIES & TYPICAL SECTION
- 3 GENERAL PLAN & ELEVATION
- 4-5 DECK BEAM DETAILS
- 6 ABUTMENT DETAILS
- 7 STEEL RAILING DETAILS
- 8-10 PLAN & PROFILE
- 11-17 CROSS SECTIONS
- 18-19 SWPPP



**LOCATION MAP**

Scale 1 inch = 2,000 ft  
Length Of Improvements = 1000 ft (0.19 mi)

*Jim W. Brown*  
Jim W. Brown as President of  
Illinois Professional Design Firm  
Land Survey & Prof. Eng. Corp  
Number 184-002518  
Expires April 30, 2015

Date: June 24, 2014

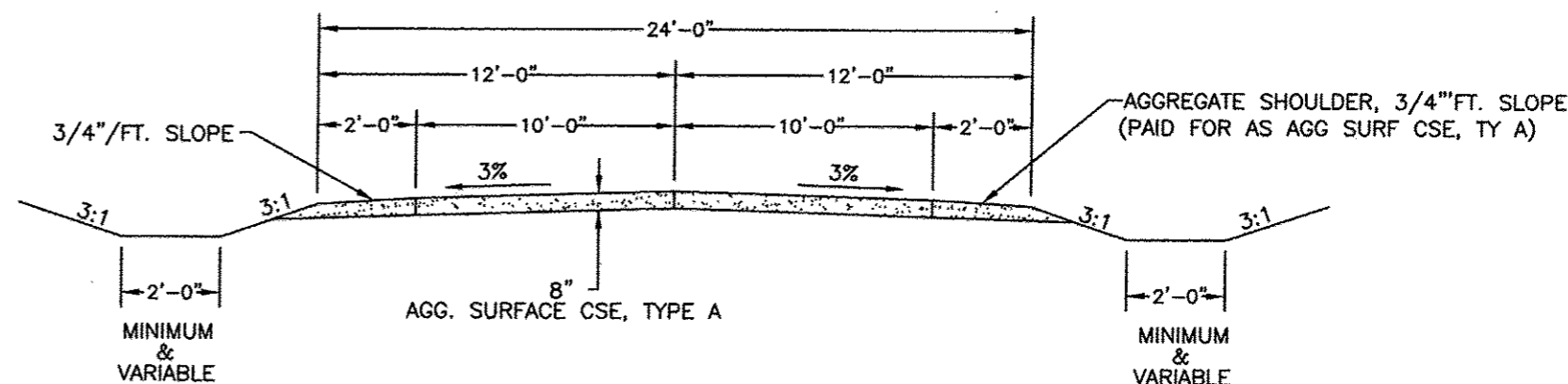
**J.W. BROWN**  
PRESIDENT  
184-002518  
REGISTERED PROFESSIONAL CORPORATION  
ILLINOIS ENGINEER NUMBER

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	<u>06-24-14</u>
	<i>[Signature]</i> LOCAL AGENCY REPRESENTATIVE
APPROVED	<u>06-24-14</u>
	<i>Bob Holmes</i> ROAD COMMISSIONER
PASSED	<u>JULY 15, 2014</u>
	<i>Dennis W. Hill</i> DISTRICT 9 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	<u>7/15/14</u>
	<i>Jeffrey L. Keirn</i> JEFFREY L. KEIRN, P.E. ACTING DEPUTY DIRECTOR OF HIGHWAYS REGION FIVE ENGINEER

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	2
HARRISBURG TOWNSHIP			LAND ROAD	

## SUMMARY OF QUANTITIES

CODE NO.	PAY ITEM	UNIT	QUANTITY
X2010350	TREE REMOVAL, ACRES (SPECIAL)	ACRE	1.8
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.7
20200100	EARTH EXCAVATION	CU YD	1,300
20400100	BORROW EXCAVATION	CU YD	1,000
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	250
28000305	TEMPORARY DITCH CHECKS	FOOT	80
28100809	STONE DUMPED RIPRAP, CLASS A5	TON	500
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	1,300
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	47.4
50300280	CONCRETE ENCASEMENT	CU YD	3.5
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	1,560
50800105	REINFORCEMENT BARS	POUND	3,580
Δ 50900205	STEEL RAILING, TYPE S1	FOOT	130
51201400	FURNISH STEEL PILES HP10X42	FOOT	425
51202305	DRIVING PILES	FOOT	425
51500100	NAME PLATES	EACH	1
67100100	MOBILIZATION	L SUM	1



TYPICAL SECTION

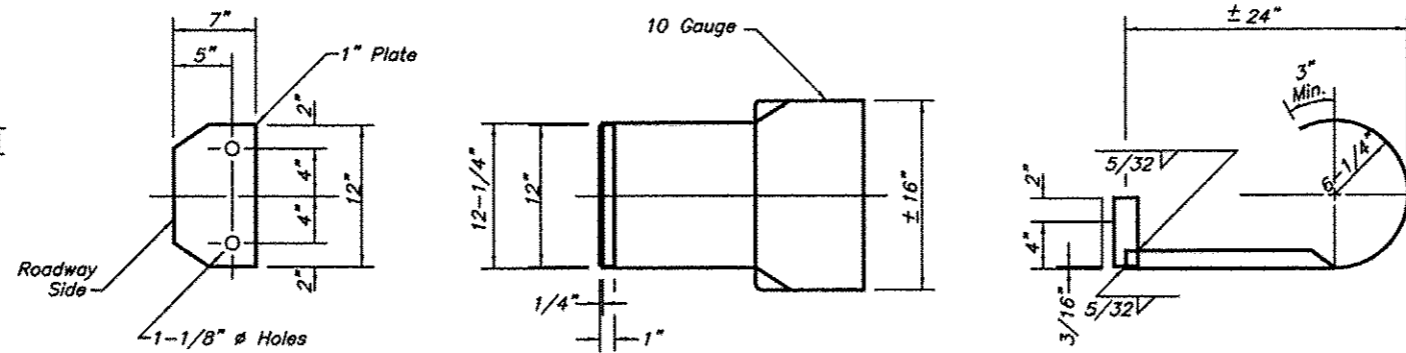
NO SCALE

▲ SAFETY ITEMS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	3
HARRISBURG TOWNSHIP		LAND ROAD		

**CURLED END SECTION DETAILS**

Note: Curled End Sections Shall Be Incidental To The Contract Price.

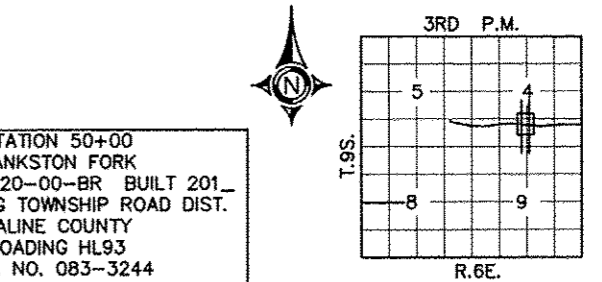


**GENERAL NOTES**

- The Contractor shall drive 0 test piles, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
- See Special Provisions for boring logs.
- A Corrosion inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
- The Steel H-piles shall be according to AASHTO M270 Grade 50.

**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Removal of Existing Structures	L Sum				1
Concrete Structures	Cu. Yd.			47.4	47.4
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	1560			1560
Steel Bridge Rail, Type S-1	Foot	130			130
Reinforcement Bars	Pound			3580	3580
Furnishing Steel Piles HP 10X42	Foot			425	425
Driving Piles	Foot			425	425
Name Plates	Each				1
Concrete Encasement	Cu. Yd.			3.5	3.5

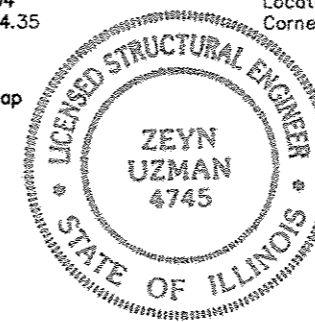


STATION 50+00  
BANKSTON FORK  
SEC. 11-06120-00-BR BUILT 201\_  
HARRISBURG TOWNSHIP ROAD DIST.  
SALINE COUNTY  
LOADING HL93  
STR. NO. 083-3244

**LETTERING FOR NAME PLATE**  
Locate Name Plate at SOUTHWEST  
Corner of Bridge

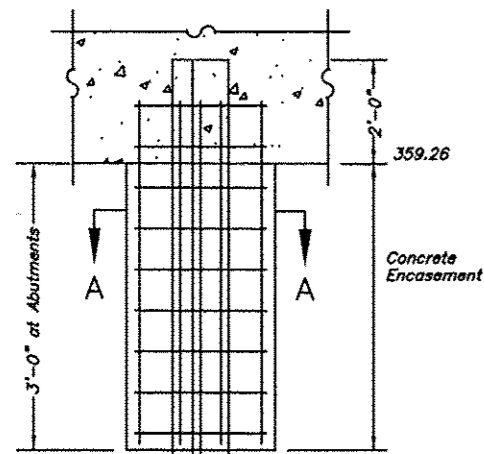
I certify that to the best of knowledge, information and belief, this bridge/box culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.

*[Signature]*  
Illinois Structural No. 4745  
Expires 11/30/2014

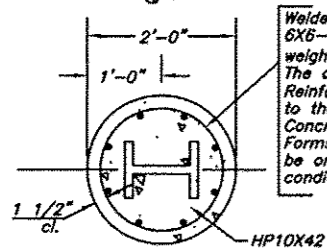


**DETAIL OF HP PILE ENCASEMENT**

Salvage- No Salvage



Welded wire fabric  
6X6-W4.0XW4.0  
weighing 58#/100 sq.ft.  
The cost of  
Reinforcement is incidental  
to the cost of  
Concrete Encasement.  
Forms for Encasement may  
be omitted when soil  
conditions will permit.



**Section A-A**

**QUANTITIES/LIN. FT. OF ENCASEMENT**

(STEEL PILES)

PILE SIZE	ITEM	QUANTITY
HP 10	CONCRETE ENCASEMENT	3.5 C.Y.

**DESIGN SPECIFICATIONS**

2007 LRFD Specification - 4th ed.

**SEISMIC DATA**

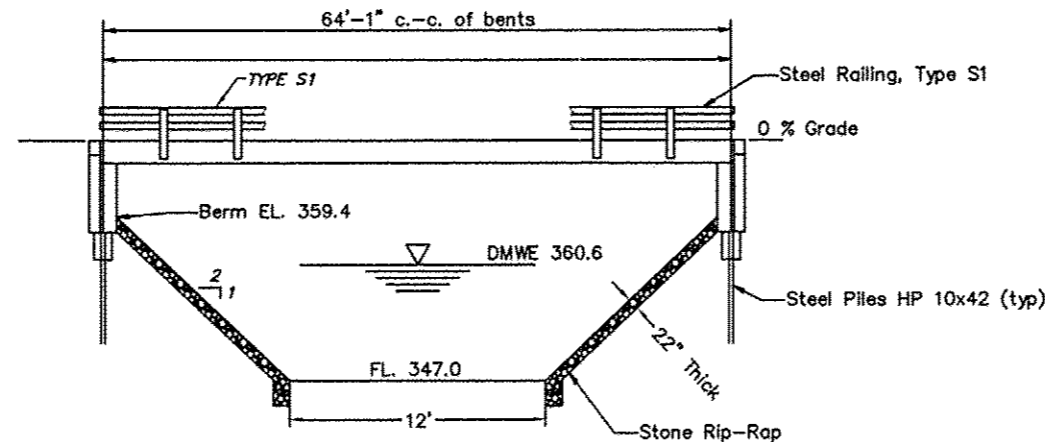
Seismic Performance Zone (SPZ) = 3  
Design Spectral Acceleration at 1.0 sec. ( $S_{D1}$ ) = 0.335  
Design Spectral Acceleration at 0.2 sec. ( $S_{D5}$ ) = 0.794  
Site Soil Class = D

**PILE DATA (2-ABUTS.)**

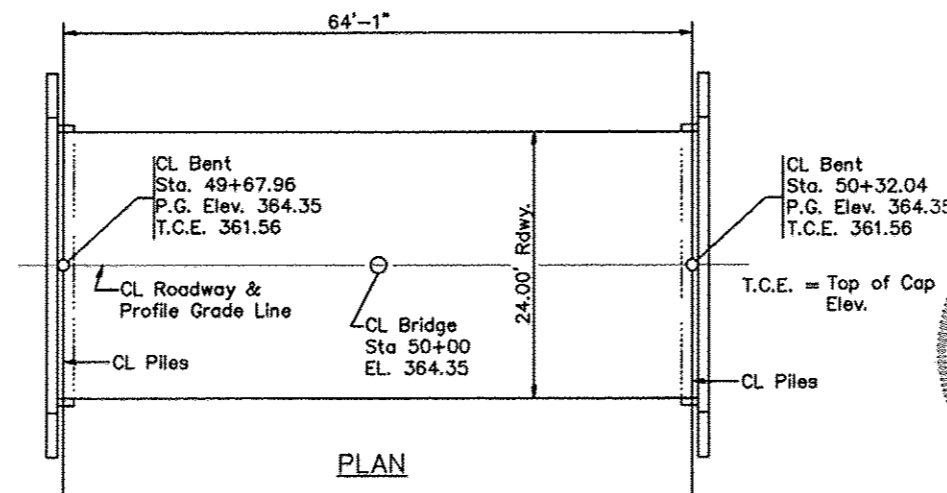
Type	STEEL HP
Estimated Length	40 Feet - N. ABUT. 45 Feet - S. ABUT.
Number Required	10
Nominal Required Bearing	335 KIPS
Allowable Resistance Available	184 KIPS

**LOADING HL-93**

ALLOW 50#/SQ.FT. FOR  
FUTURE WEARING SURFACE



**ELEVATION**



**PLAN**

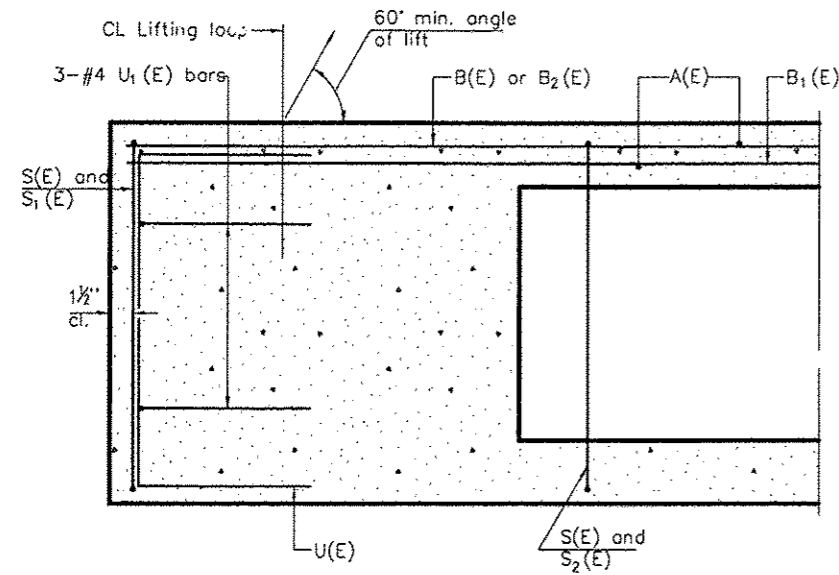
**WATERWAY INFORMATION**

Drainage Area = 81.4 Sq.Mi. Low Grade Elev. = 359.6 @ Sta. 59+25									
Flood	Freq. Yr.	Q C.F.S.	Opening	Sq. Ft.	Nat. H.W.E.	Head - Ft. Exist.	Headwater El. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	25	5150	474	579	360.37	0.85	0.92	361.22	361.29
Base	100	6900	474	592	360.58	0.59	0.93	361.17	361.51
Overtopping									
Max. Calc.	500	9050	474	611	360.89	0.48	0.76	361.37	361.65

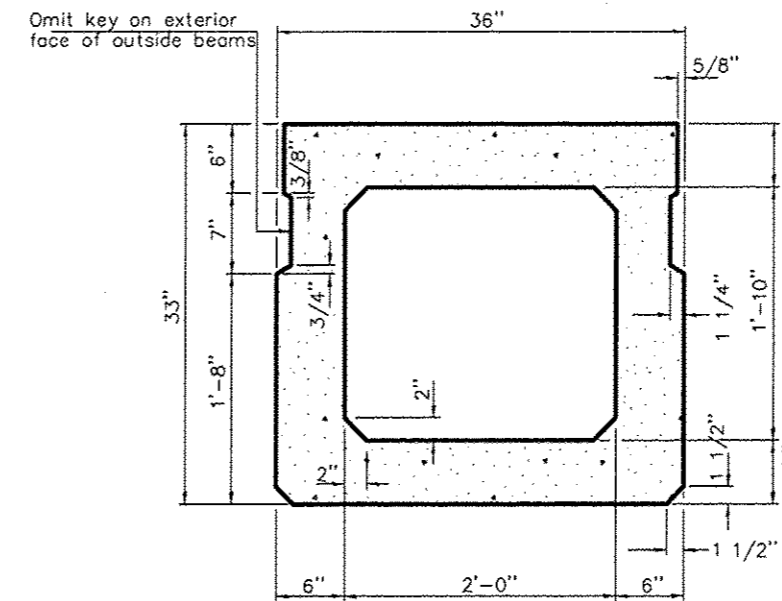
**GENERAL PLAN & ELEVATION**

TR 186 OVER BANKSTON FORK  
TRIBUTARY TO  
MIDDLE FORK SALINE RIVER  
SECTION 11-06120-00-BR  
SALINE COUNTY  
STATION 50+00

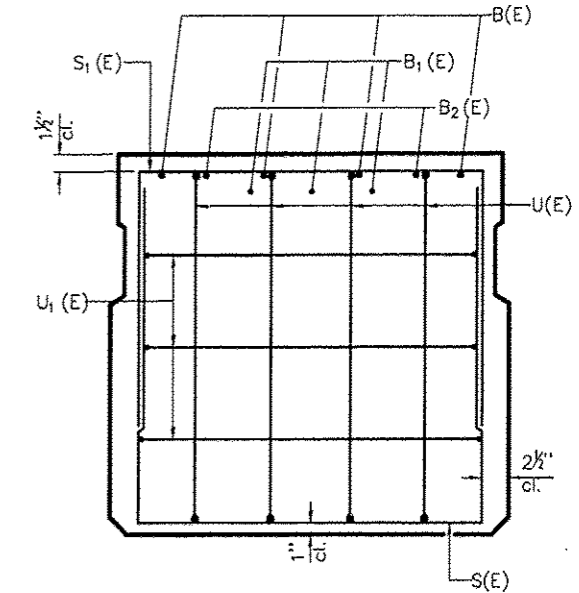
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	4
HARRISBURG TOWNSHIP		LAND ROAD		



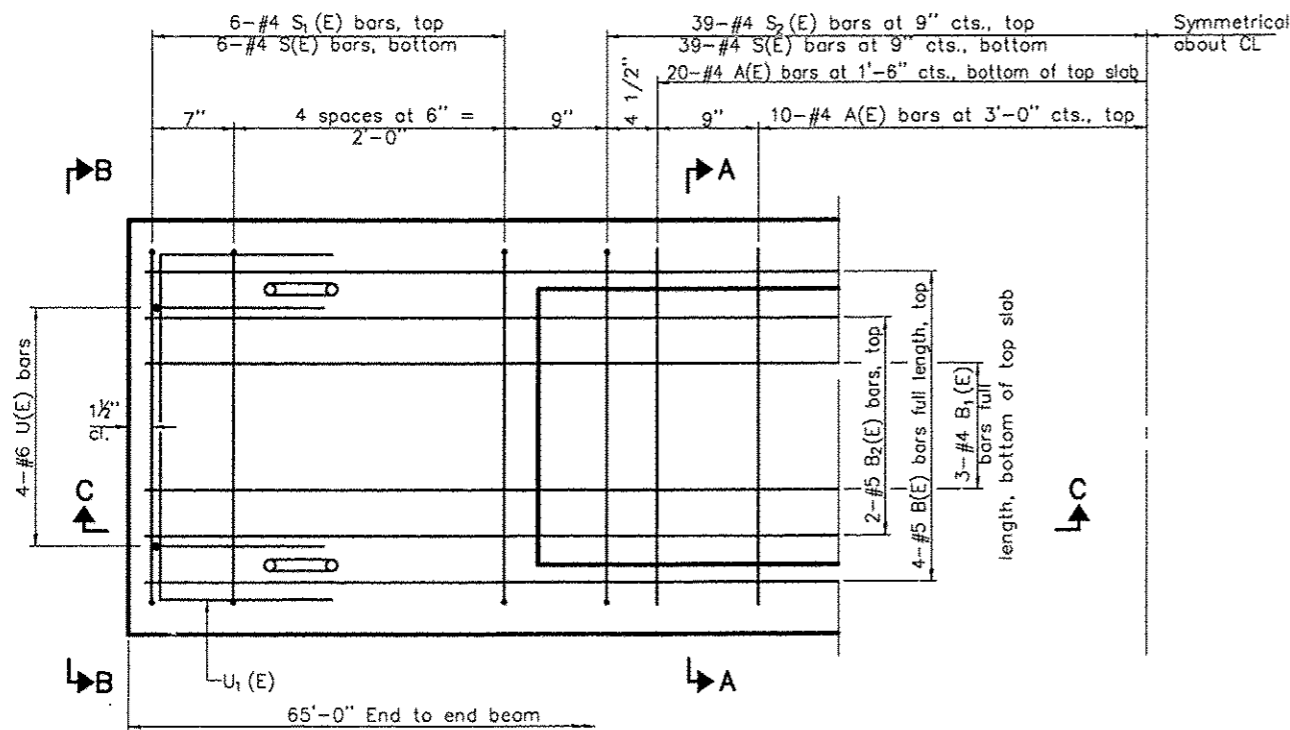
SECTION C-C



SECTION A-A  
(Showing dimensions)

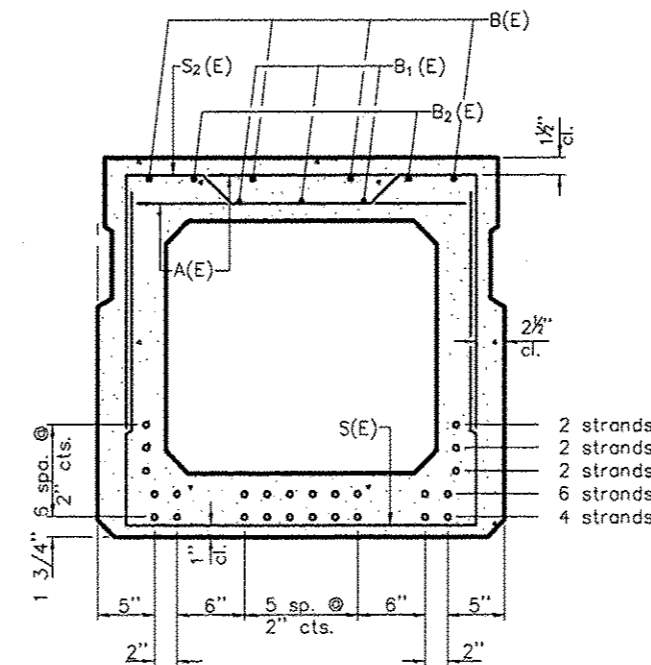


VIEW B-B



PLAN VIEW

Note: Spacing of S(E) and S<sub>2</sub>(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION A-A

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

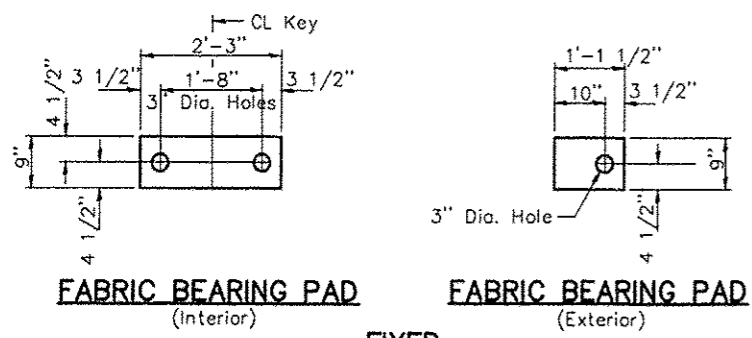
BAR LIST  
ONE BEAM ONLY  
(For information only)

Bar	No.	Size	Length	Shape
A(E)	22	#4	2'-7"	—
B(E)	12	#5	25'-0"	—
B <sub>1</sub> (E)	9	#4	24'-8"	—
B <sub>2</sub> (E)	8	#5	19'-4"	—
S(E)	90	#4	7'-5"	⌋
S <sub>1</sub> (E)	12	#4	6'-3"	⌋
S <sub>2</sub> (E)	78	#4	6'-6"	⌋
U(E)	8	#6	5'-0"	⌋
U <sub>1</sub> (E)	6	#4	5'-0"	⌋

Note: See sheet 5 of 19 for additional details and Bill of Material.

33"x36" PPC DECK BEAM  
TR 186 OVER BANKSTON FORK  
TRIBUTARY TO  
MIDDLE FORK SALINE RIVER  
SECTION 11-06120-00-BR  
SALINE COUNTY  
STATION 50+00

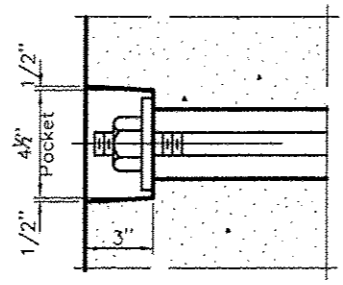
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TR 186	11-06120-00-BR	SALINE	19	5
HARRISBURG TOWNSHIP		LAND ROAD		



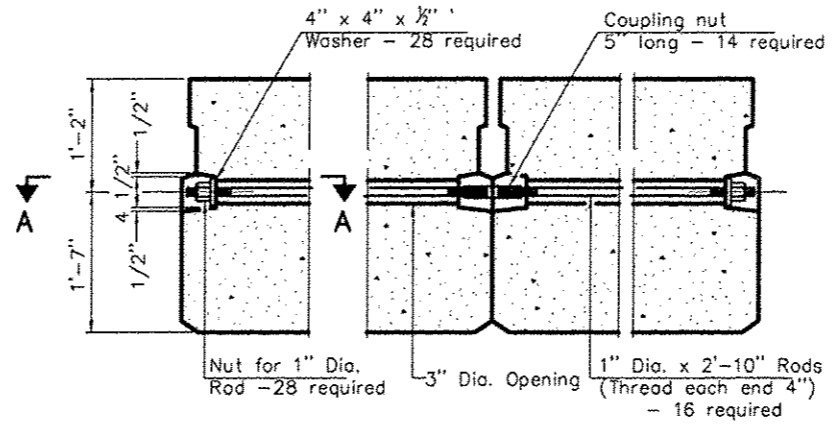
**FABRIC BEARING PAD (Interior)**      **FABRIC BEARING PAD (Exterior)**

**FIXED**

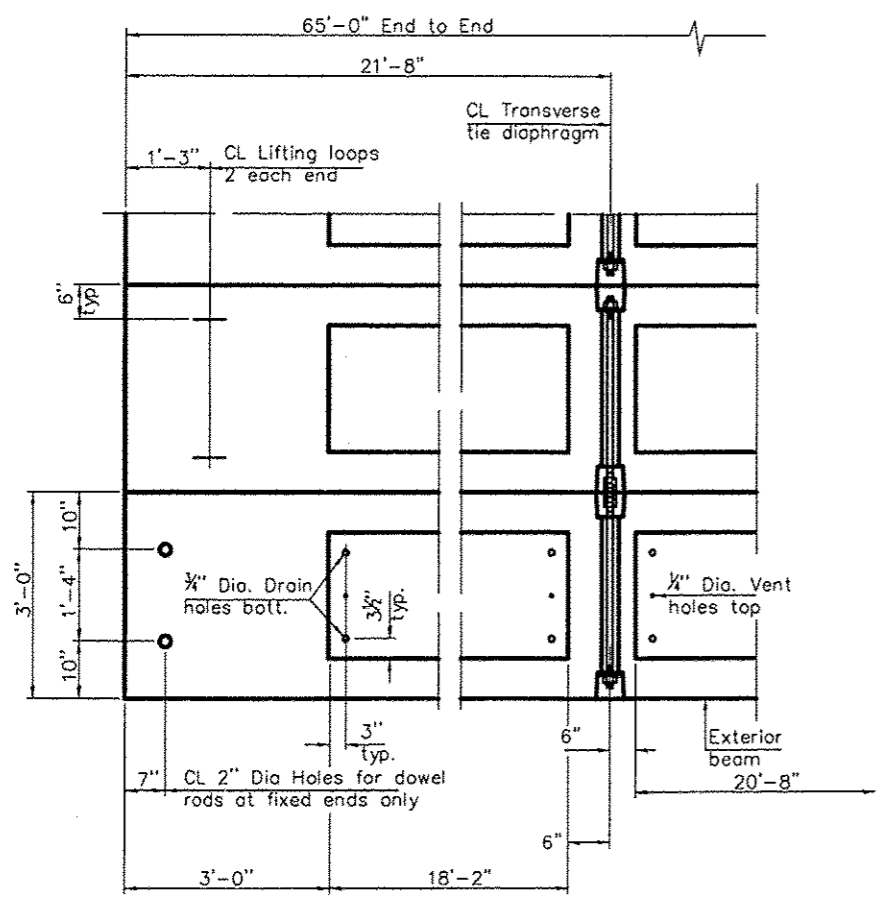
Note: Omit holes when using expansion bearings.



**SECTION A-A**

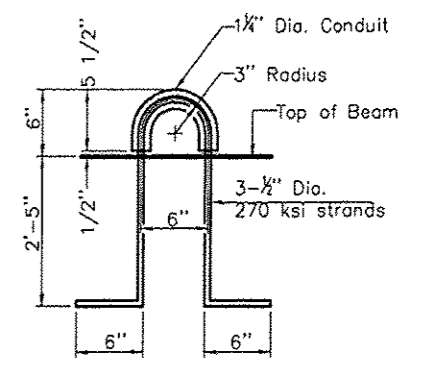
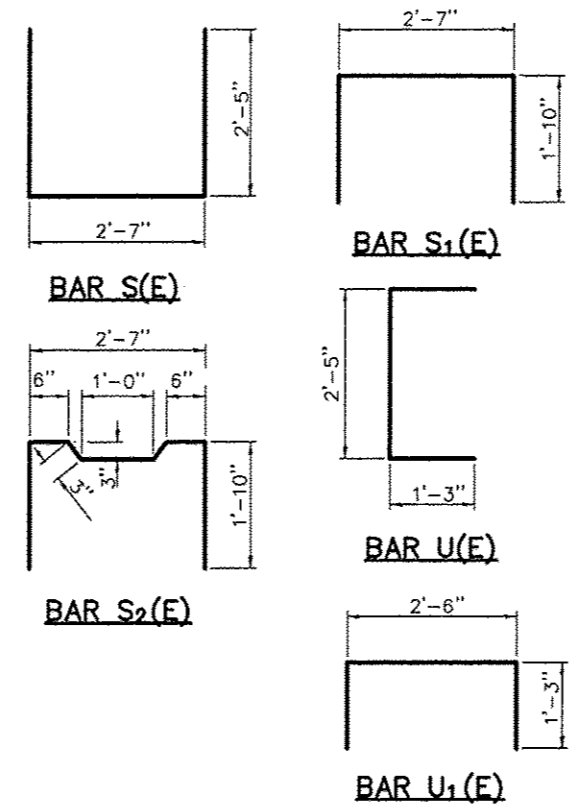


**TYPICAL TRANSVERSE TIE ASSEMBLY**



**PLAN VIEW**

Note: Connect beams in pairs with the transverse tie configuration shown.



**LIFTING LOOP DETAIL**

**BILL OF MATERIAL**

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft. 1560
---	--------------

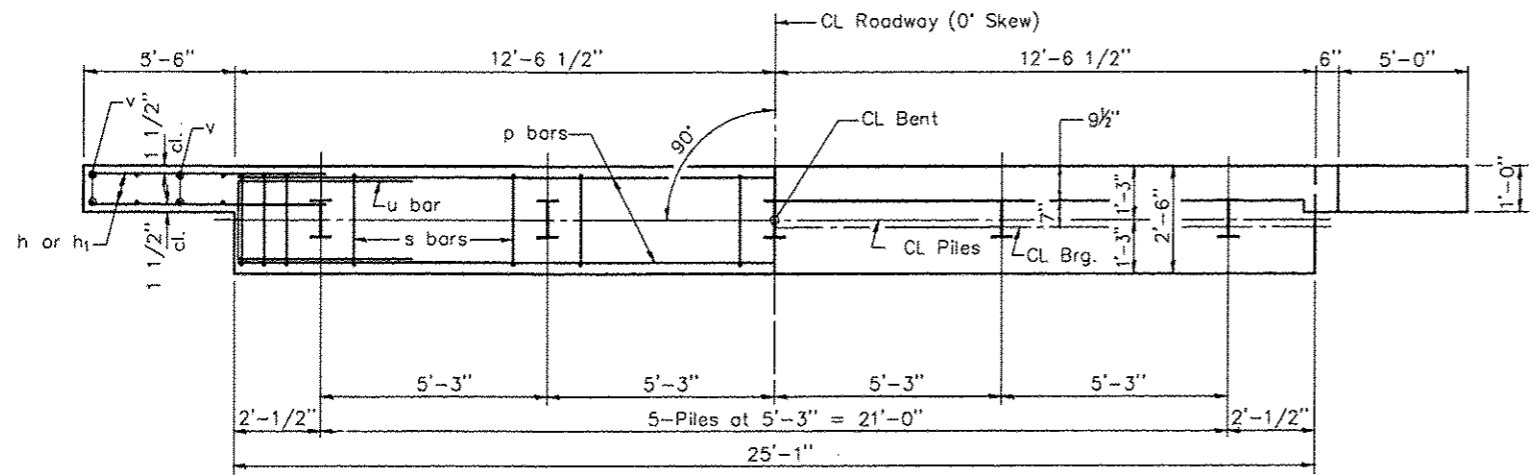
**NOTES**

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 7/8" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" Dia. rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
- Two 3/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" Dia. lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

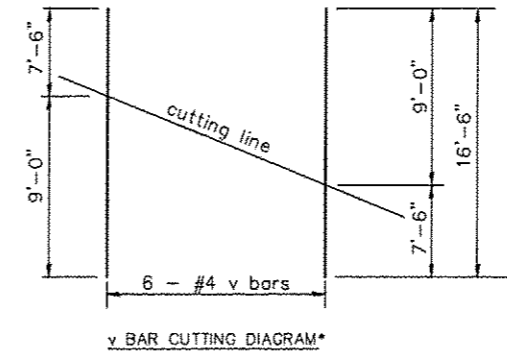
<b>33"x36" PPC DECK BEAM DETAILS</b>
<b>TR 186 OVER BANKSTON FORK</b>
<b>TRIBUTARY TO</b>
<b>MIDDLE FORK SALINE RIVER</b>
<b>SECTION 11-06120-00-BR</b>
<b>SALINE COUNTY</b>
<b>STATION 50+00</b>

29 Apr 2014 - 9:18am K:\2013\13246\4\Plan\5 33x36 Deck Beam Details.dwg: Layout Tab Model

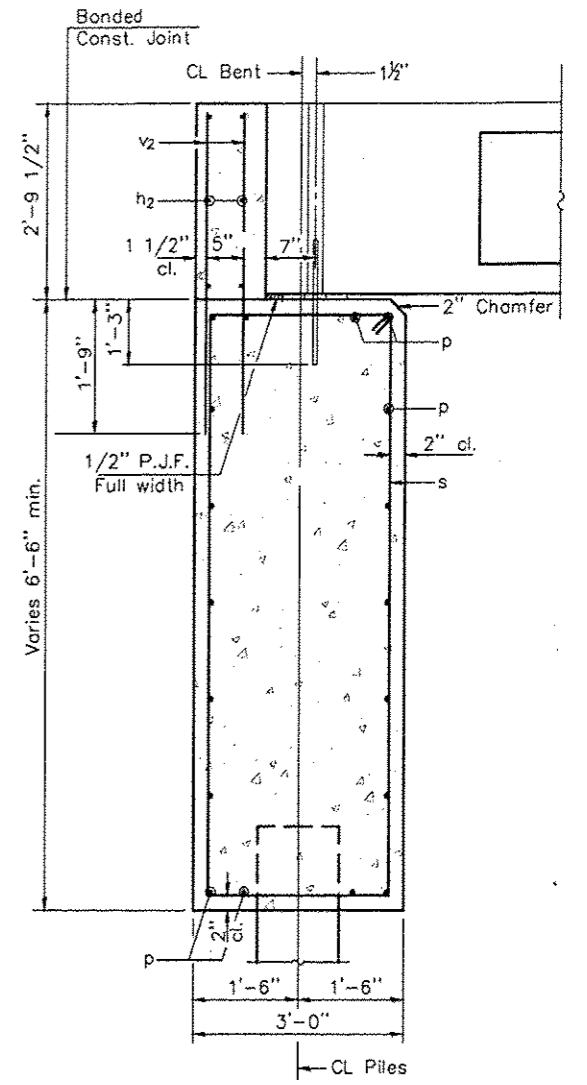
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TR 186	11-06120-00-BR	SALINE	19	6
HARRISBURG TOWNSHIP		LAND ROAD		



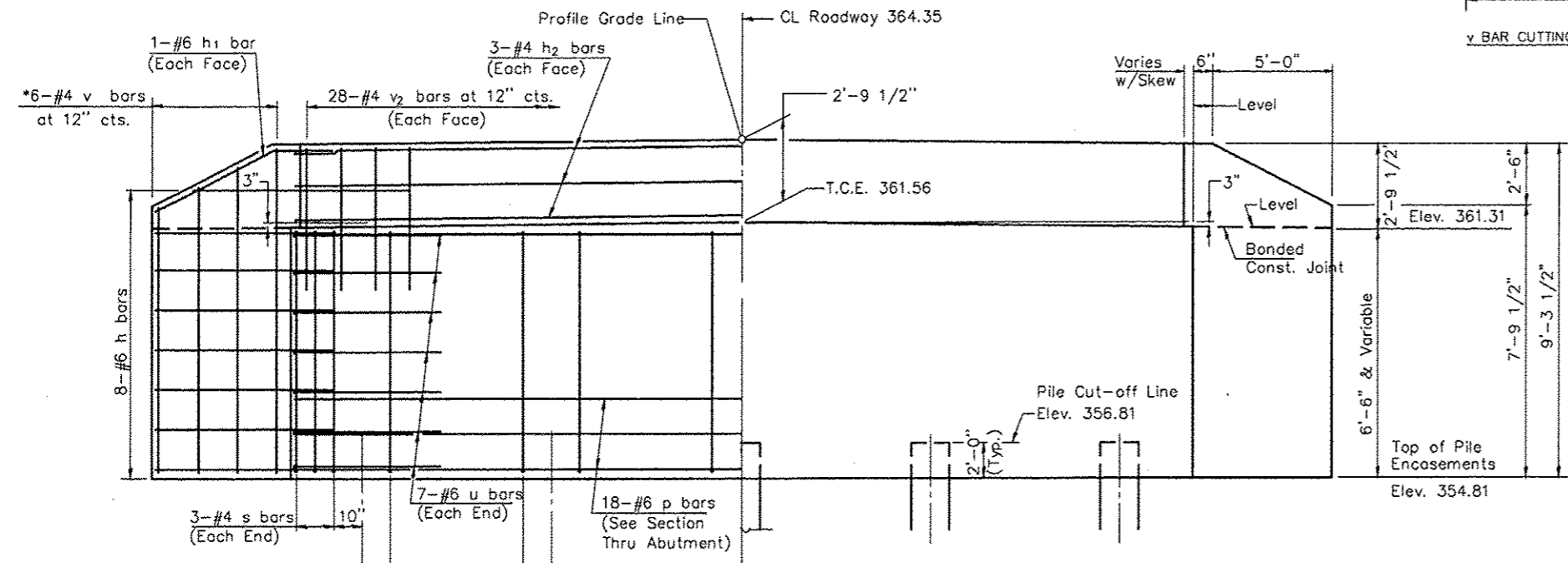
PLAN  
(D=0)



v BAR CUTTING DIAGRAM\*



SECTION THRU ABUTMENT  
(At Right Angles)



ELEVATION

\* CUT BARS ALONG LINE  
USE REMAINDER OF BARS  
IN OPPOSITE FACE

9 1/2" CL Pile  
5-#4 s bars at 11" cts.  
(Typ. between piles)

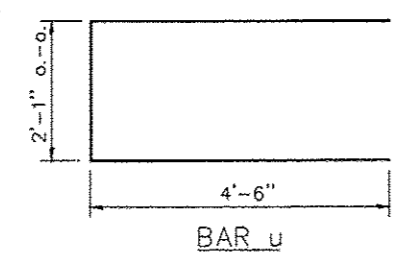
9 1/2" CL Pile (Typ.)

NOTES

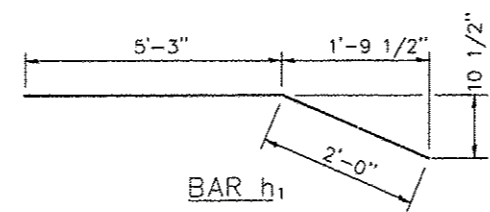
1. The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
2. Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60.
3. Space reinforcement in cap to miss anchor bolts.

DESIGN STRESSES

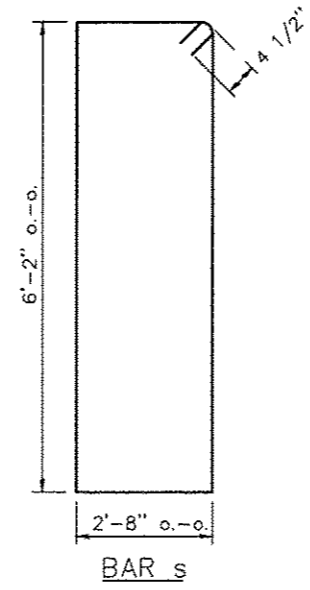
f'c = 3,500 psi  
fy = 60,000 psi



BAR u



BAR h1



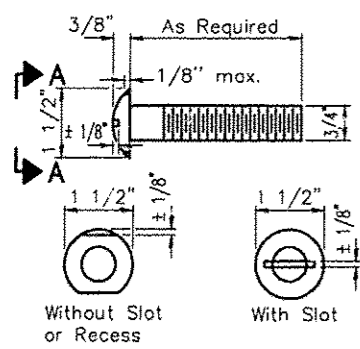
BAR s

BILL OF MATERIAL  
FOR ONE ABUTMENT

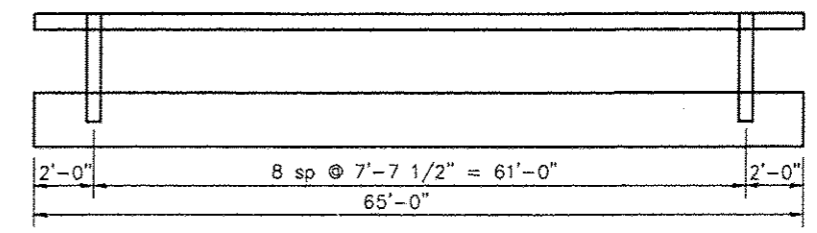
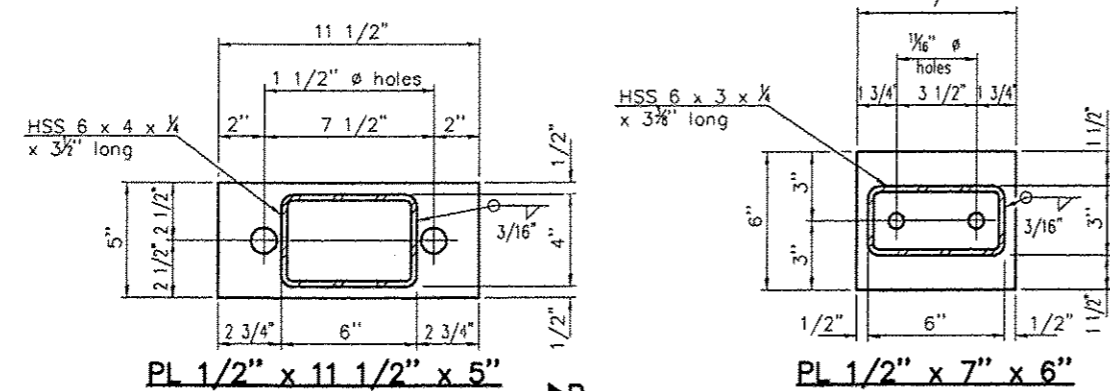
Bar	No.	Size	Length	Shape
h	32	#4	7'-0"	—
h1	4	#4	7'-3"	—
h2	6	#4	24'-9"	—
p	18	#6	24'-9"	—
s	26	#4	18'-5"	□
u	14	#6	11'-1"	□
v	12	#4	16'-6"	—
v2	56	#4	4'-5"	—
Concrete Structures			23.7 Cu. Yds.	
Reinforcement Bars			1790 Lb.	

ABUTMENT DETAILS  
24' RDWY. 33" BEAMS 'D'=0"  
TR 186 OVER BANKSTON FORK  
TRIBUTARY TO  
MIDDLE FORK SALINE RIVER  
SECTION 11-06120-00-BR  
SALINE COUNTY  
STATION 50+00

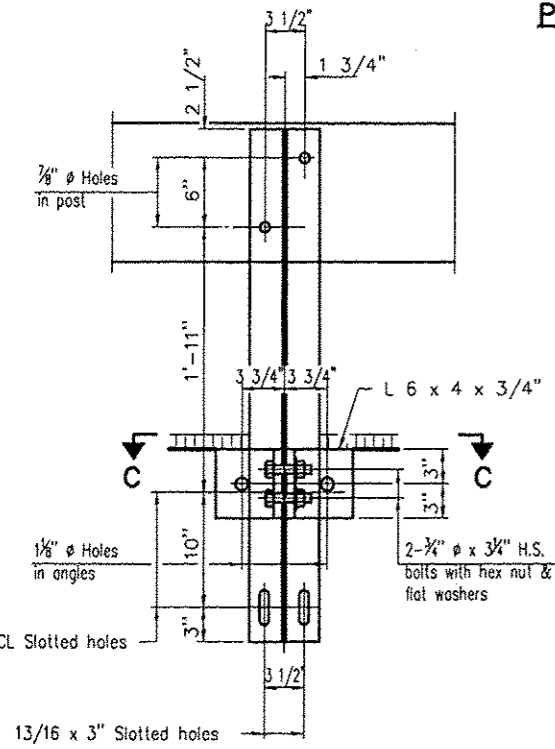
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	7
HARRISBURG TOWNSHIP		LAND ROAD		



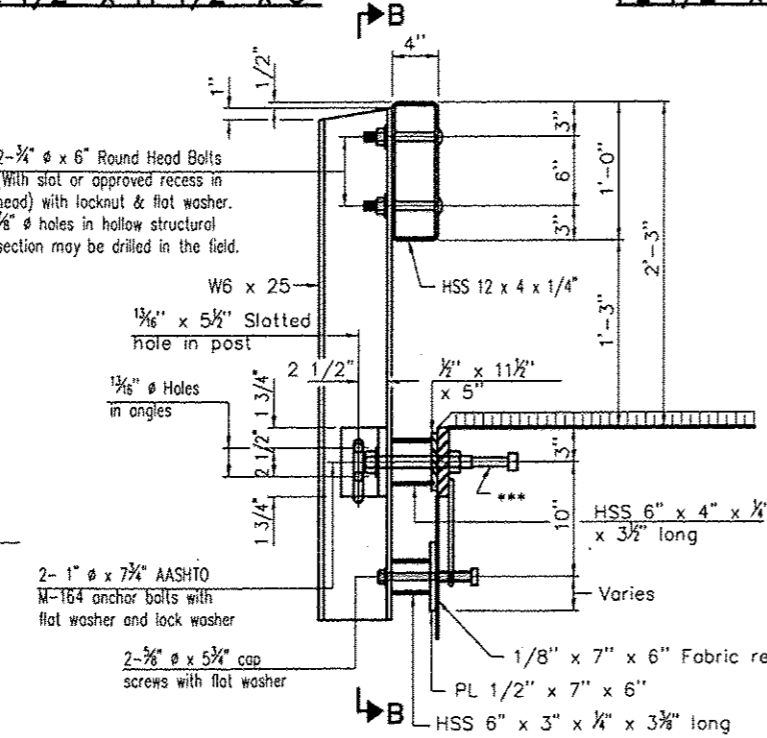
VIEW A-A  
ROUND HEAD BOLT



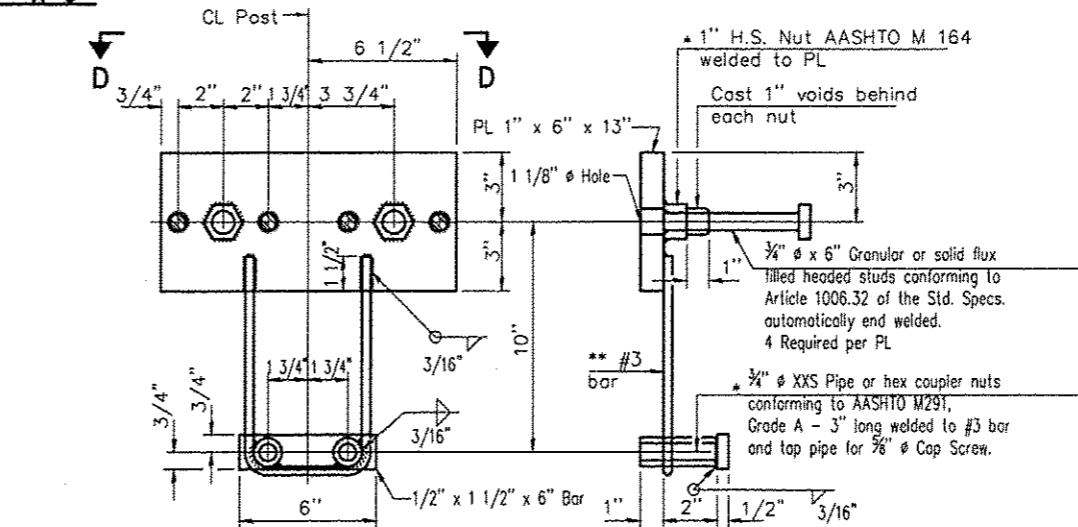
ELEVATION OF RAILING



SECTION B-B

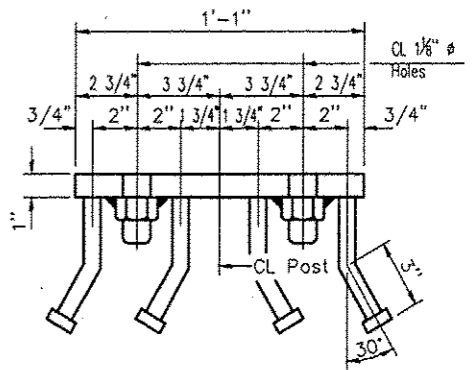


SECTION AT RAILING POST

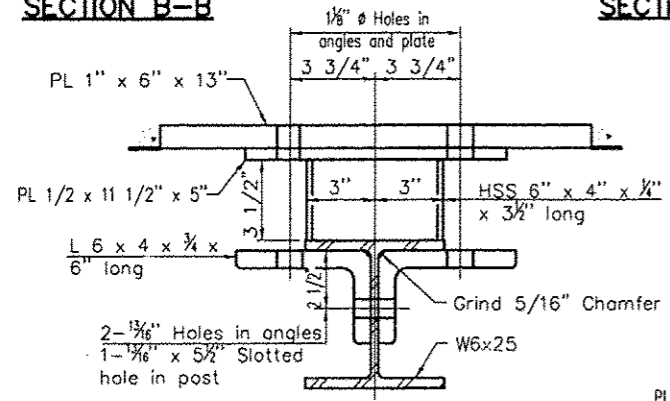


ANCHOR DEVICE

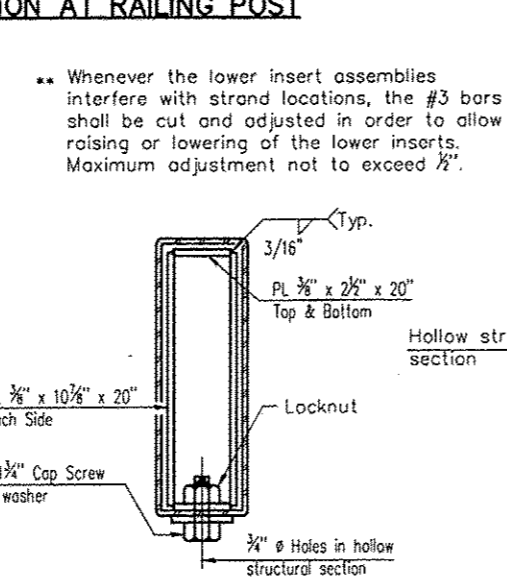
Notes:  
 All field drilled holes shall be coated with an approved zinc rich paint before erection.  
 For multi-span bridges, sufficient 1/2" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.  
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.  
 The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



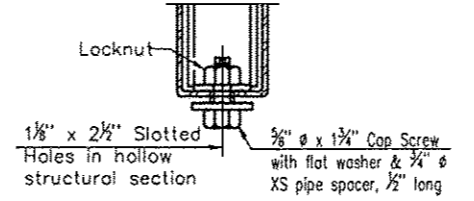
VIEW D-D



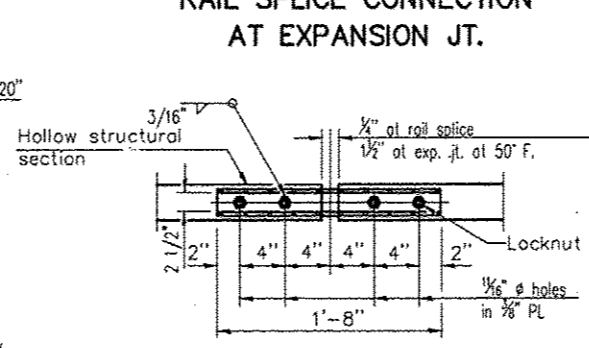
SECTION C-C



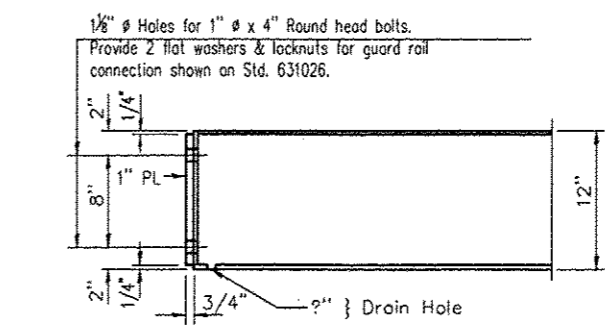
SECTIONS AT RAIL SPlice



RAIL SPlice CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPlice TYPICAL



END OF RAIL DETAILS

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	130

**STEEL RAILING, TYPE S-1**  
 TR 186 OVER BANKSTON FORK  
 TRIBUTARY TO  
 MIDDLE FORK SALINE RIVER  
 SECTION 11-06120-00-BR  
 SALINE COUNTY  
 STATION 50+00

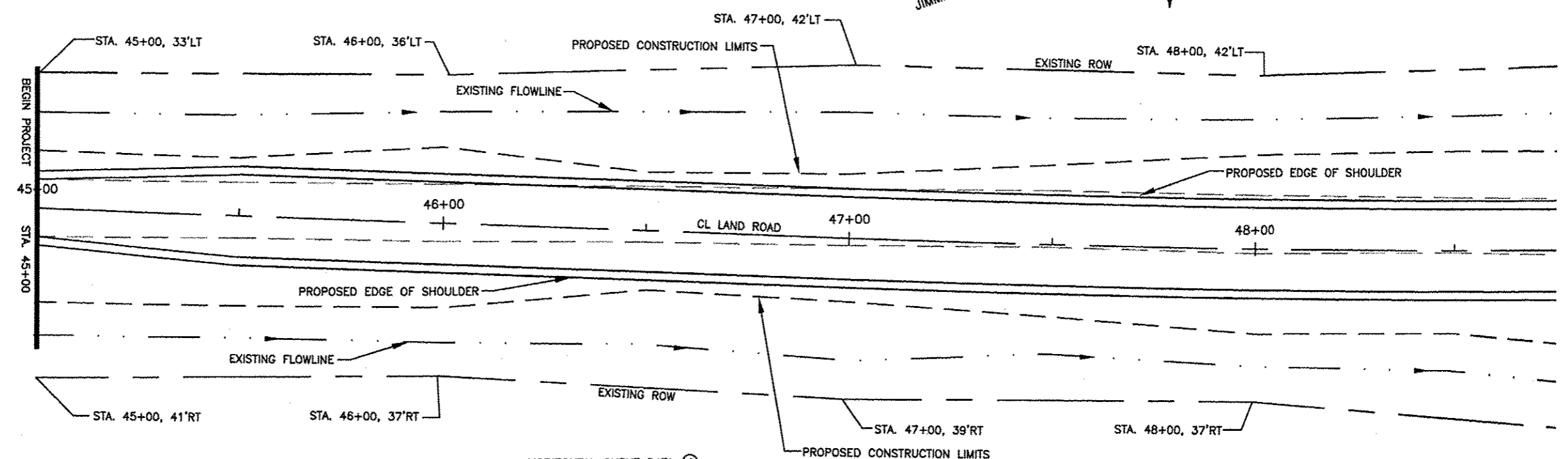
08 Apr 2014 - 2:21pm X:\2013\13245\MC\Draws\7 S-1 Steel Railing Details.dwg Layout Tab "Model"

(10'-9" Maximum Post Spacing)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	8
HARRISBURG TOWNSHIP		LAND ROAD		



JIMMIE & BILLIE RODGERS

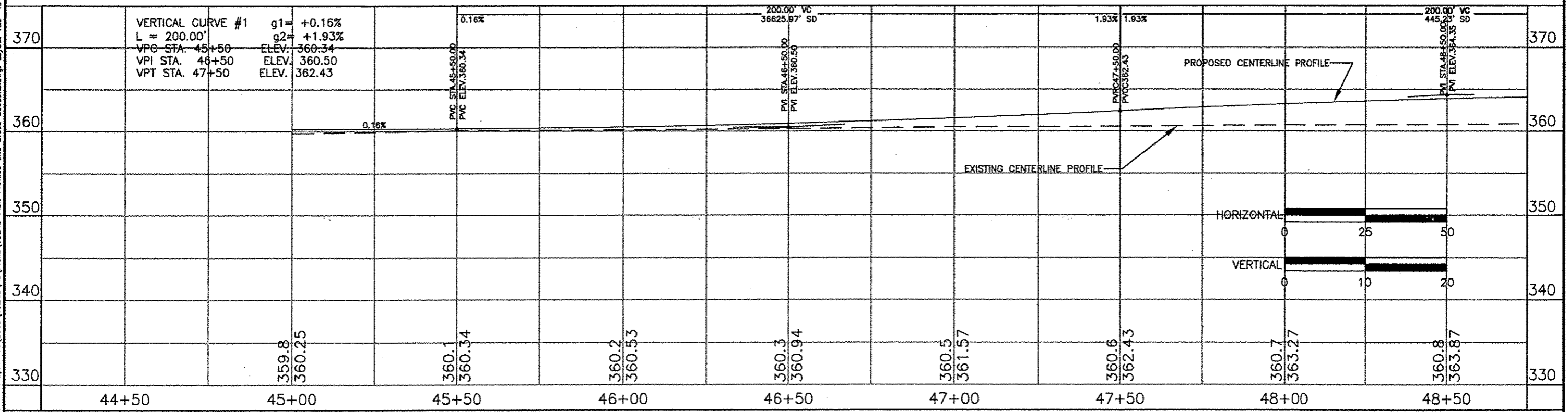


HORIZONTAL CURVE DATA ①

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R = 20499.51'	PI STA. = 47+50.00
L = 200.00'	PT STA. = 48+50.00
T = 100.00'	

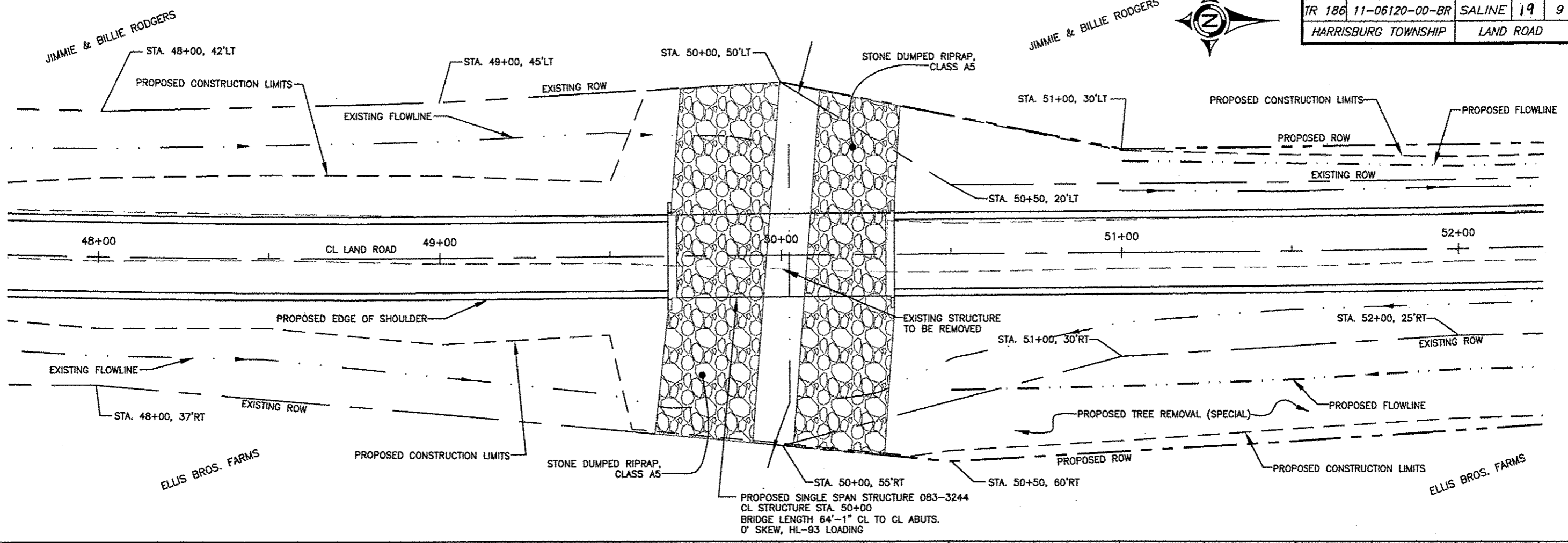
ELLIS BROS. FARMS

D2 May 2014 - 1:40pm x:\2013\13248\AC\Plans\13248 Plan Profiles and Cross Sections.dwg: Layout Tab '45+00 to 48+00'

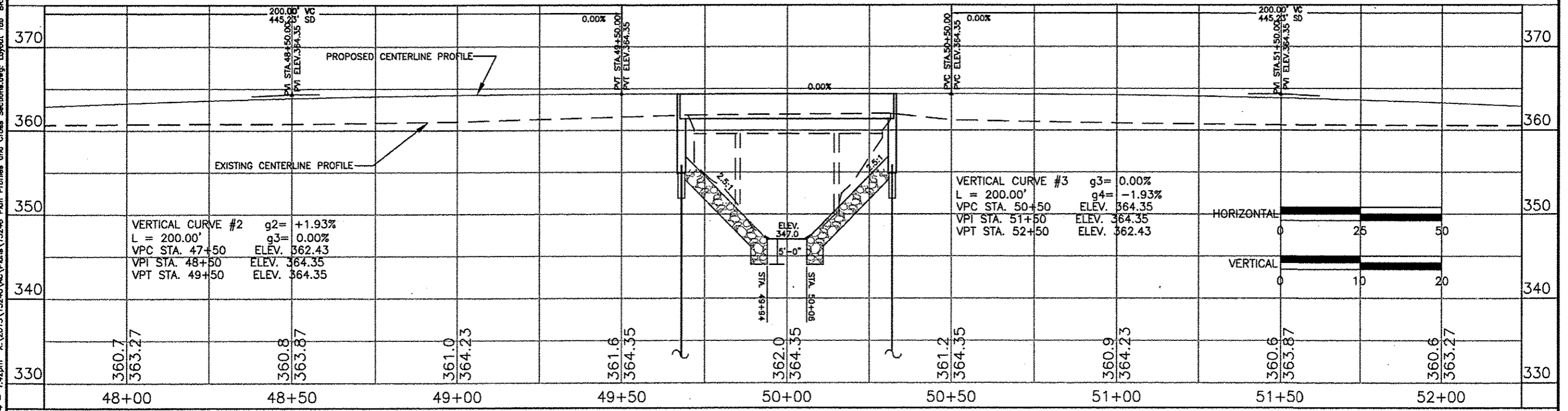




ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	9
HARRISBURG TOWNSHIP		LAND ROAD		



02 May 2014 - 1:42pm X:\2013\13248\AC\Plan\13248 Plan Profiles and Cross Sections.dwg Layout Tab BRIDGE



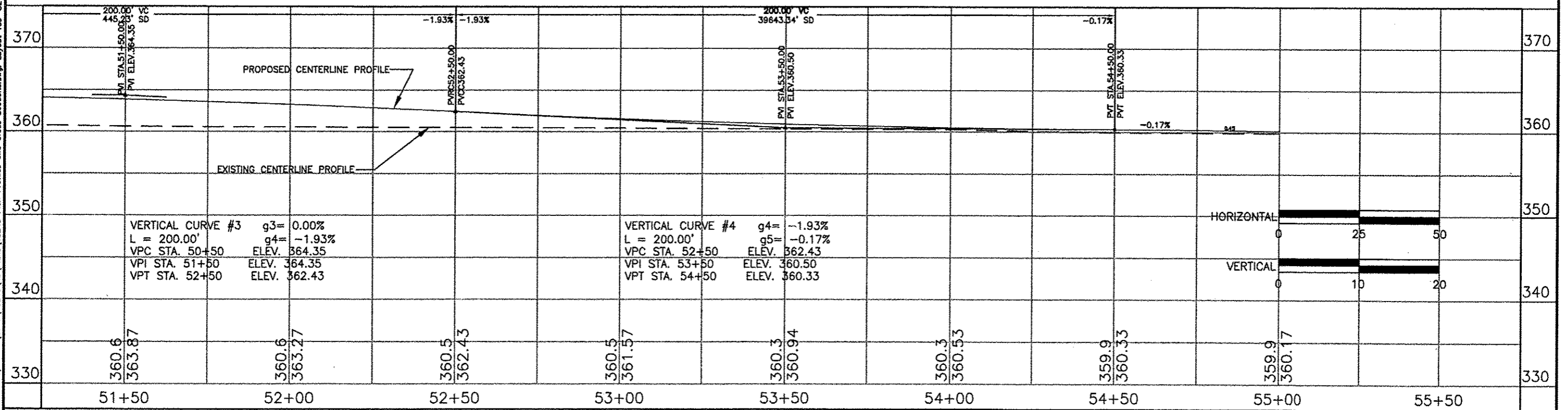
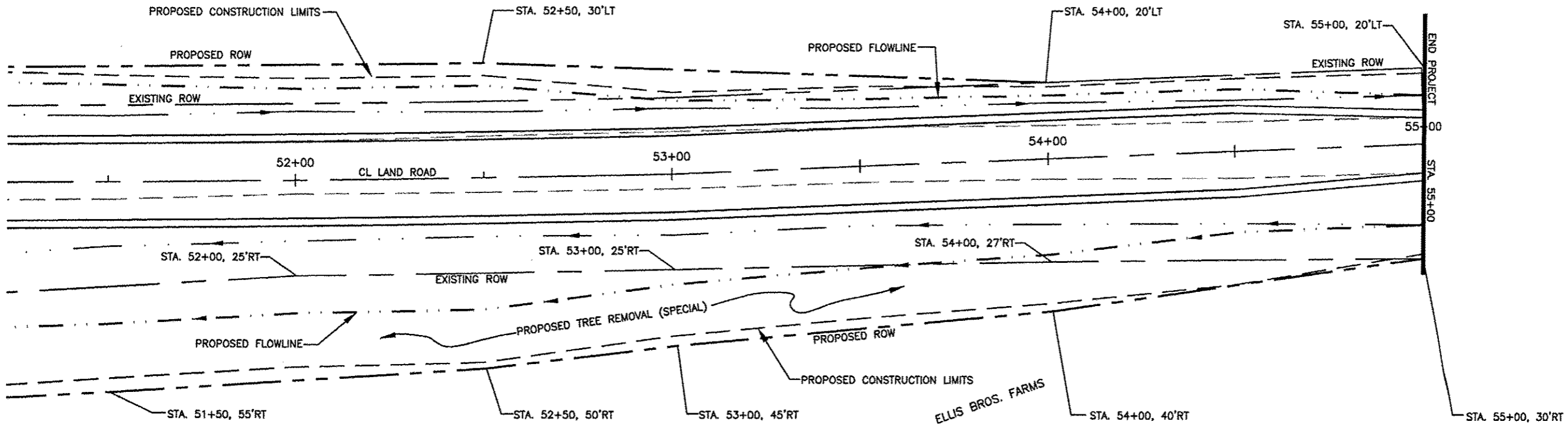
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	10
HARRISBURG TOWNSHIP		LAND ROAD		



HORIZONTAL CURVE DATA ②

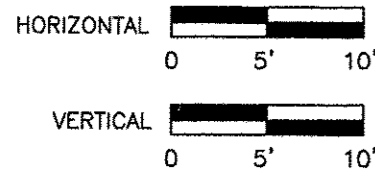
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T = 100.00'	

JIMMIE & BILLIE RODGERS

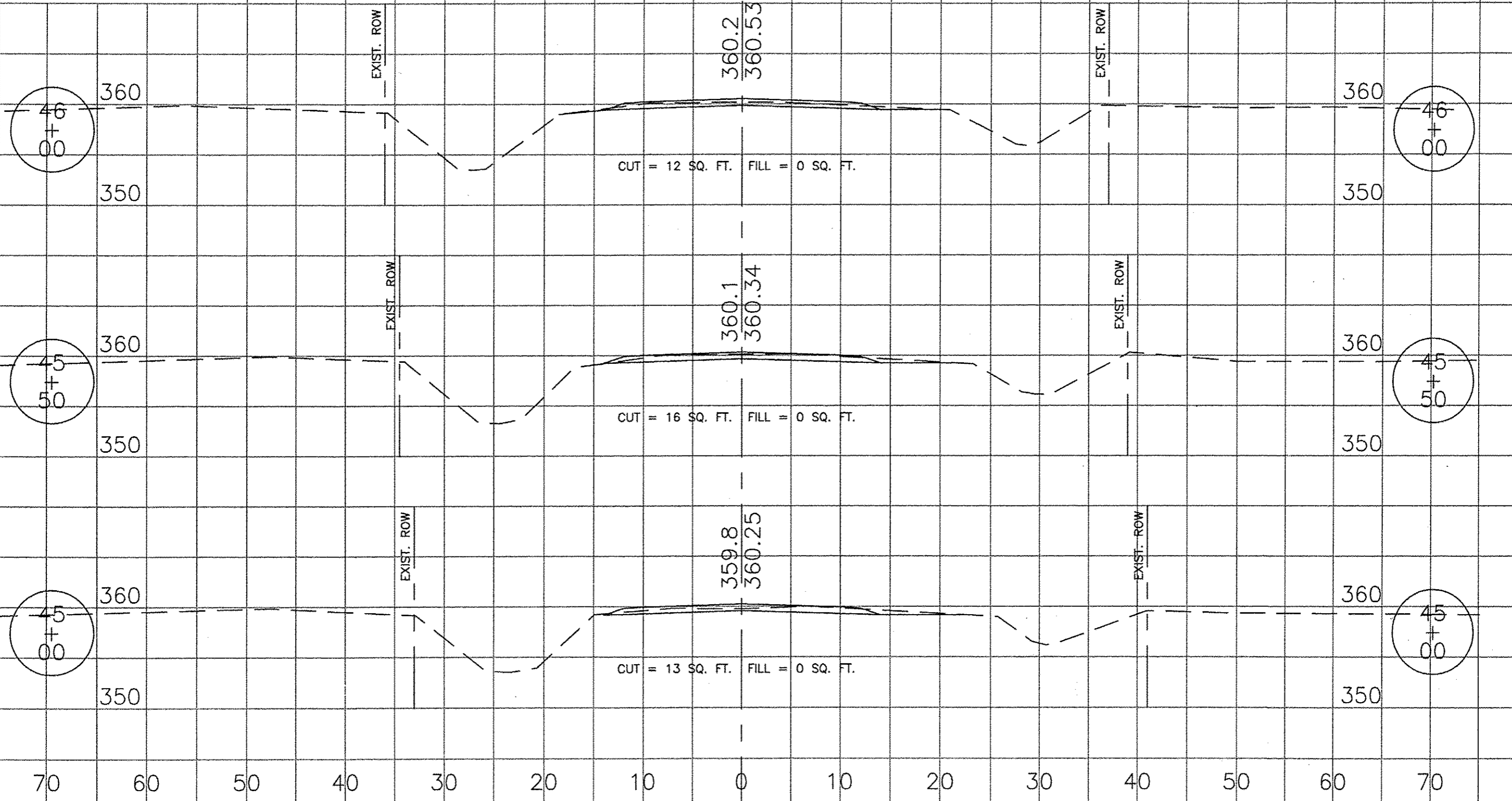


02 May 2014 - 1:43pm X:\2013\13248\13248\13248\Plan Profiles and Cross Sections.dwg: Layout, Tab '52+00 TO 55+00'

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	11
HARRISBURG TOWNSHIP		LAND ROAD		

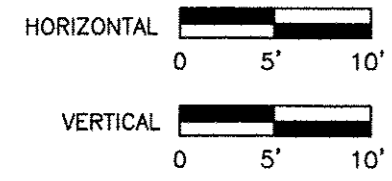


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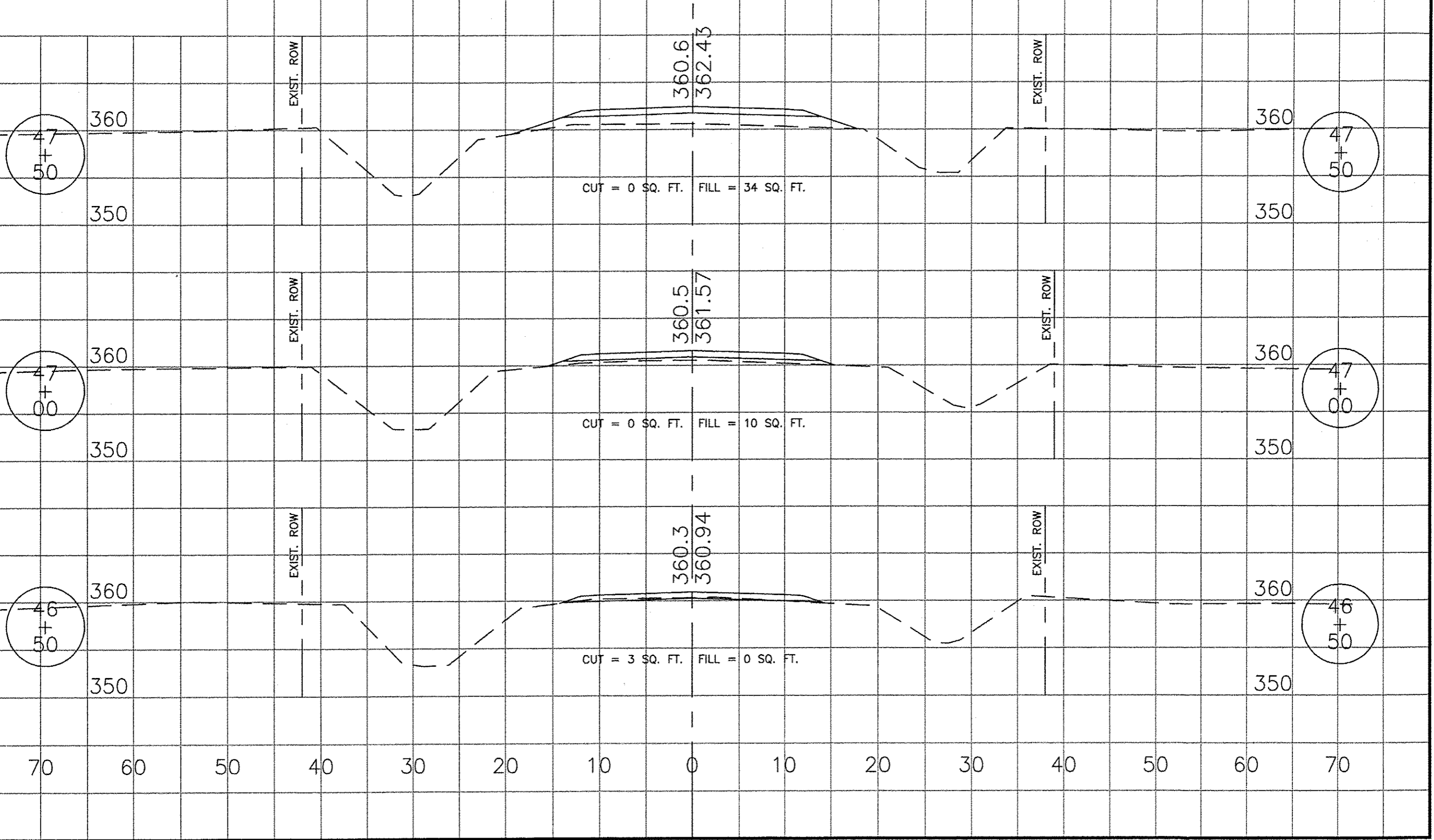


08 Apr 2014 - 4:12pm X:\2013\13248\AC\Plan Profiles and Cross Sections.dwg: Layout Tab 'XSECT1'

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	12
HARRISBURG TOWNSHIP		LAND ROAD		

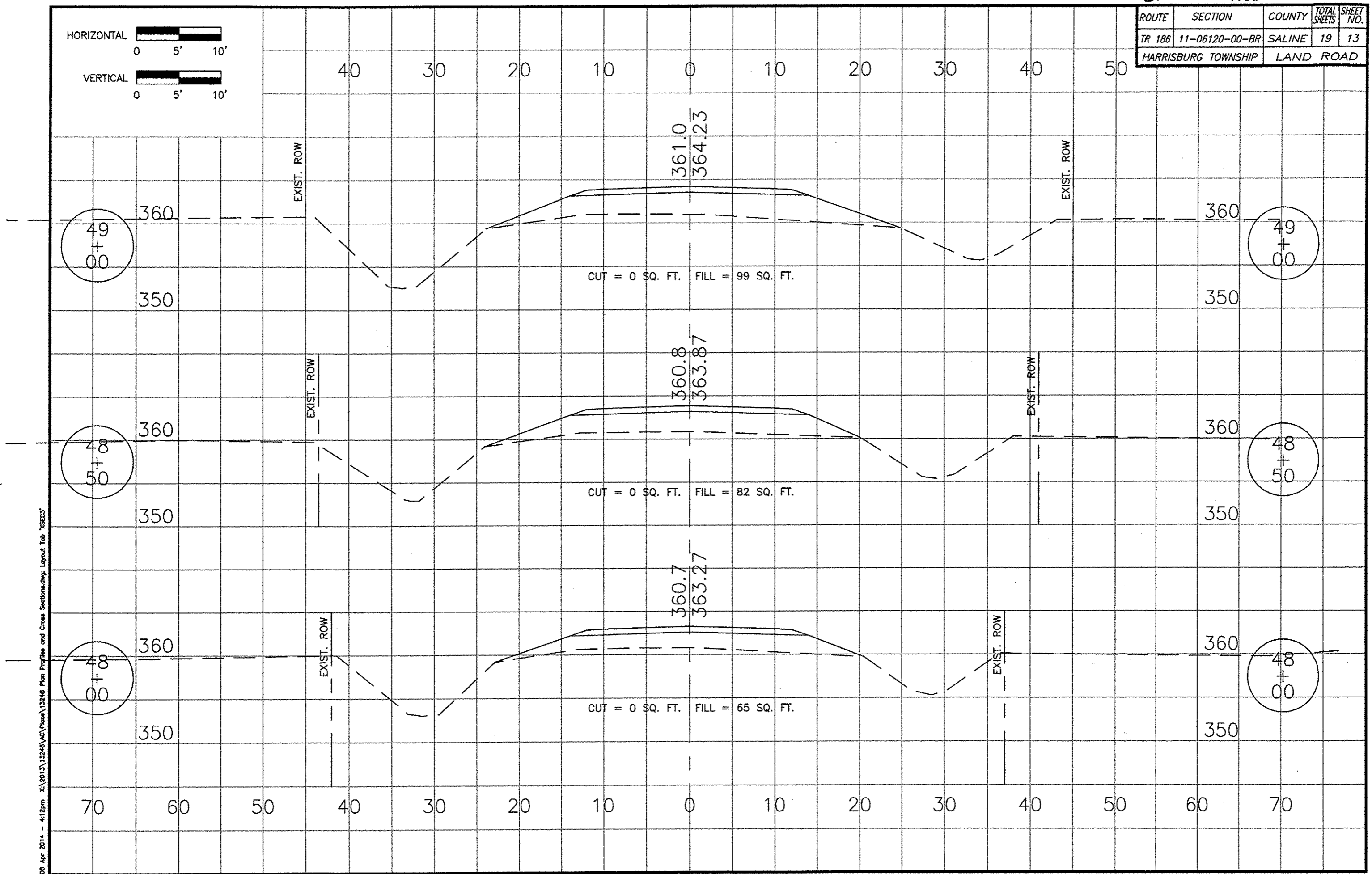
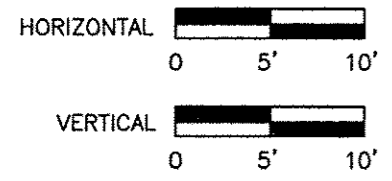


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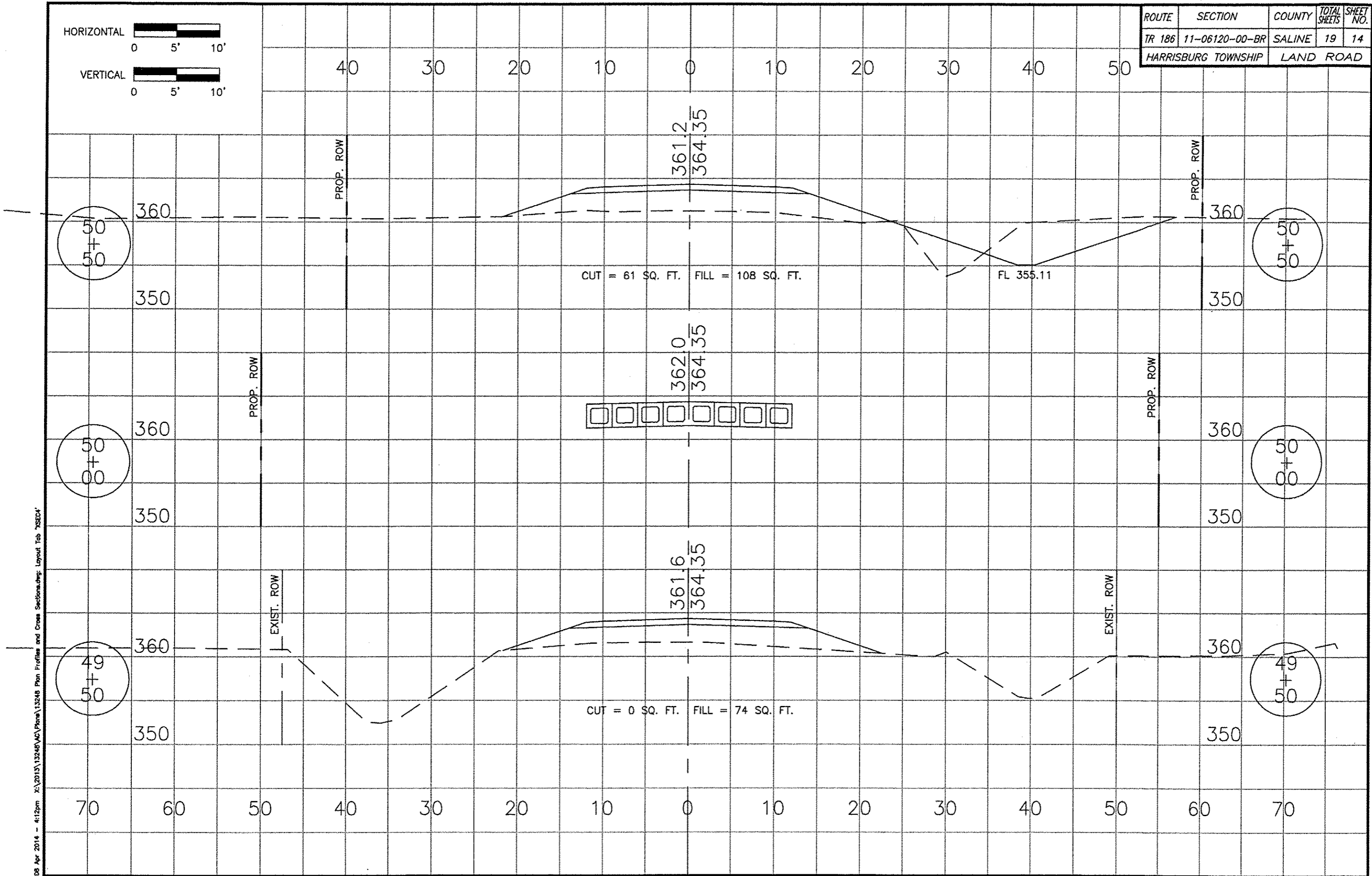
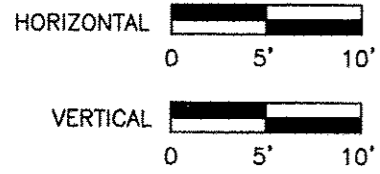
70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	13
HARRISBURG TOWNSHIP		LAND ROAD		

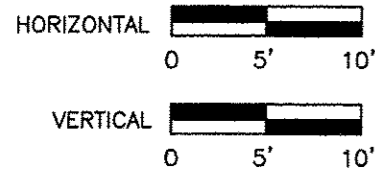


08 Apr 2014 - 4:12pm X:\2013\13248\AC\Plan\13248 Plan Profile and Cross Sections.dwg: Layout Tab XSECT3

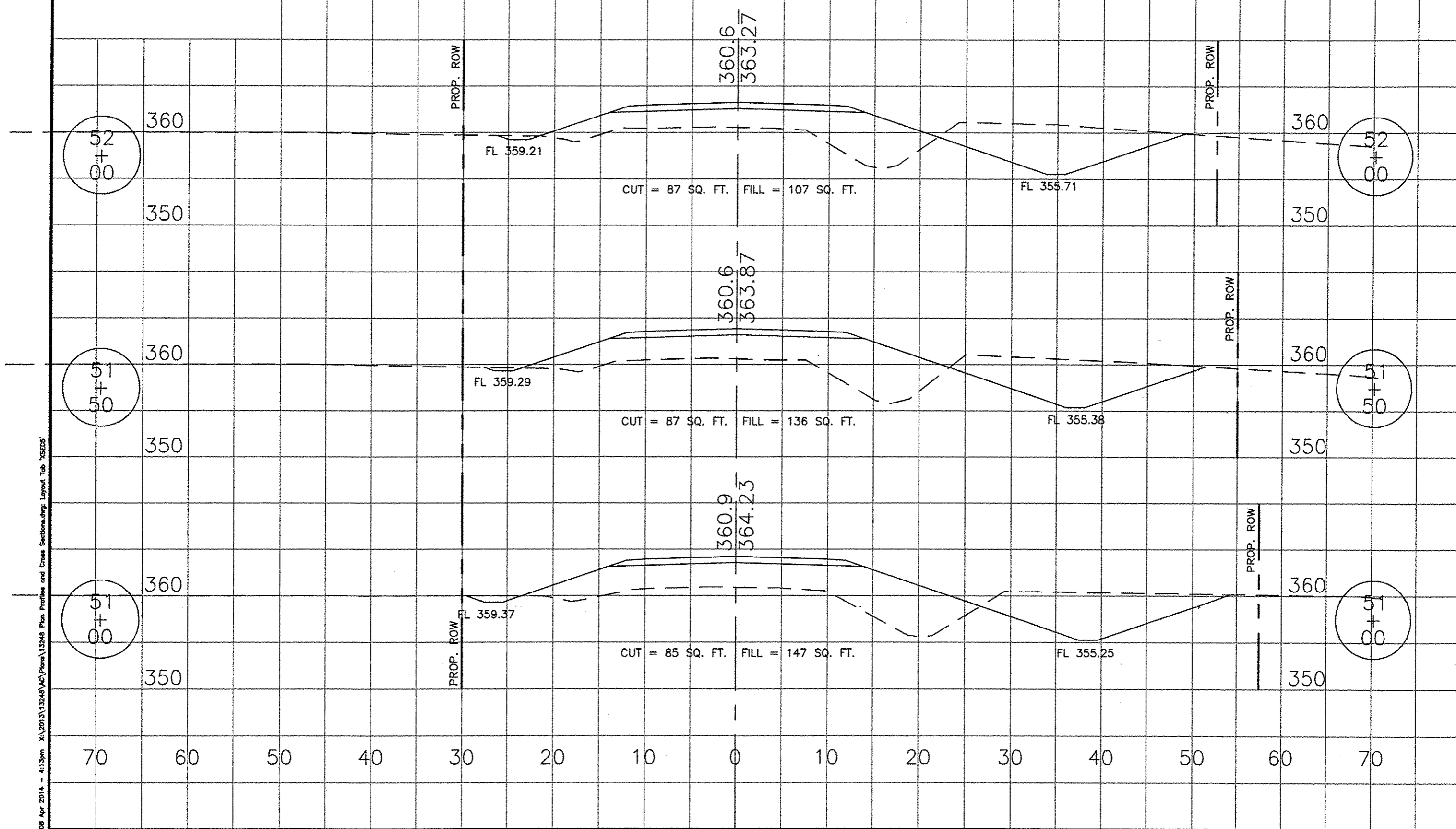
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	14
HARRISBURG TOWNSHIP			LAND ROAD	



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 188	11-06120-00-BR	SALINE	19	15
HARRISBURG TOWNSHIP			LAND ROAD	

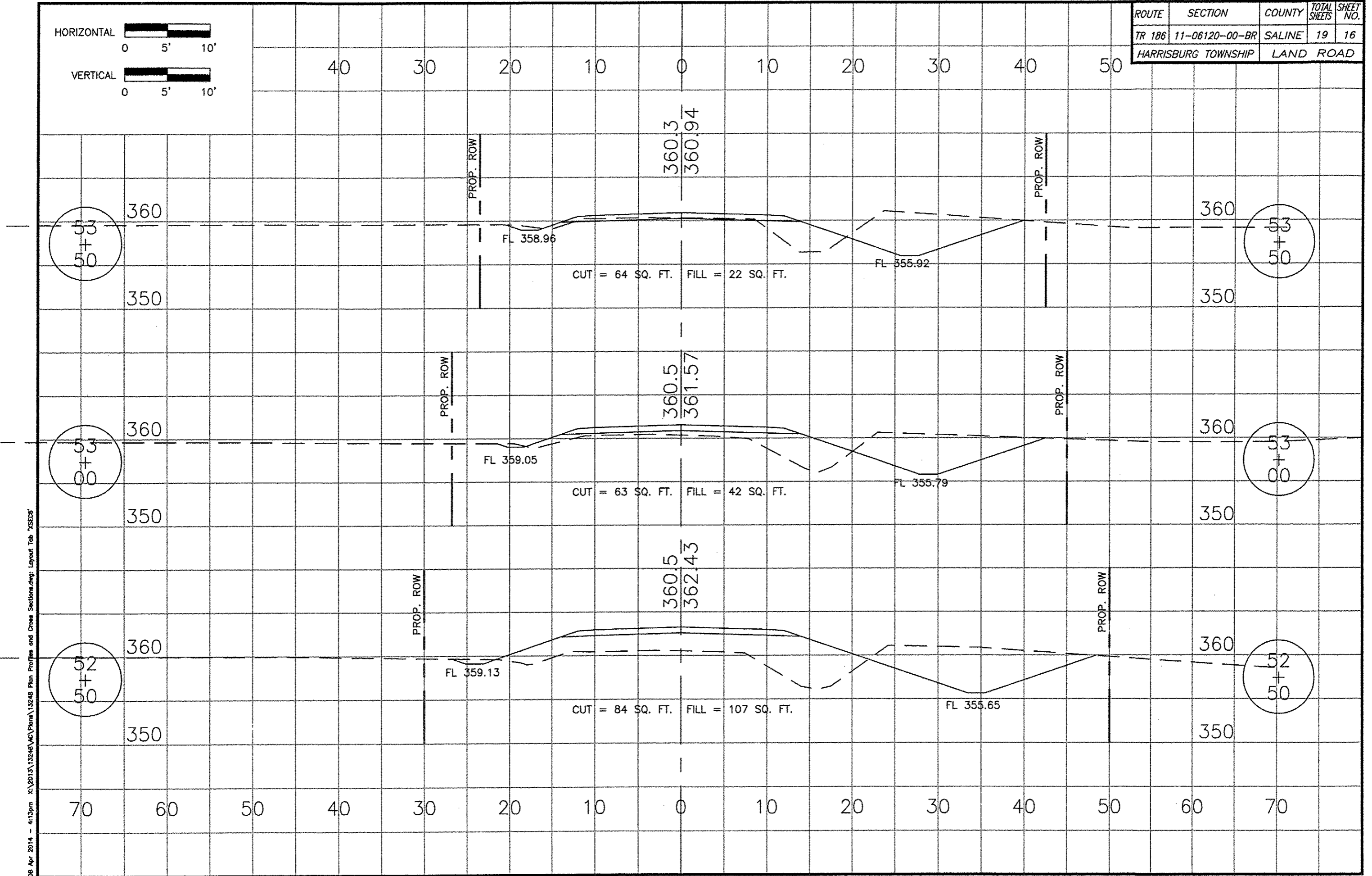
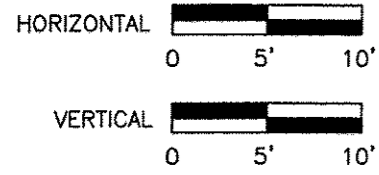


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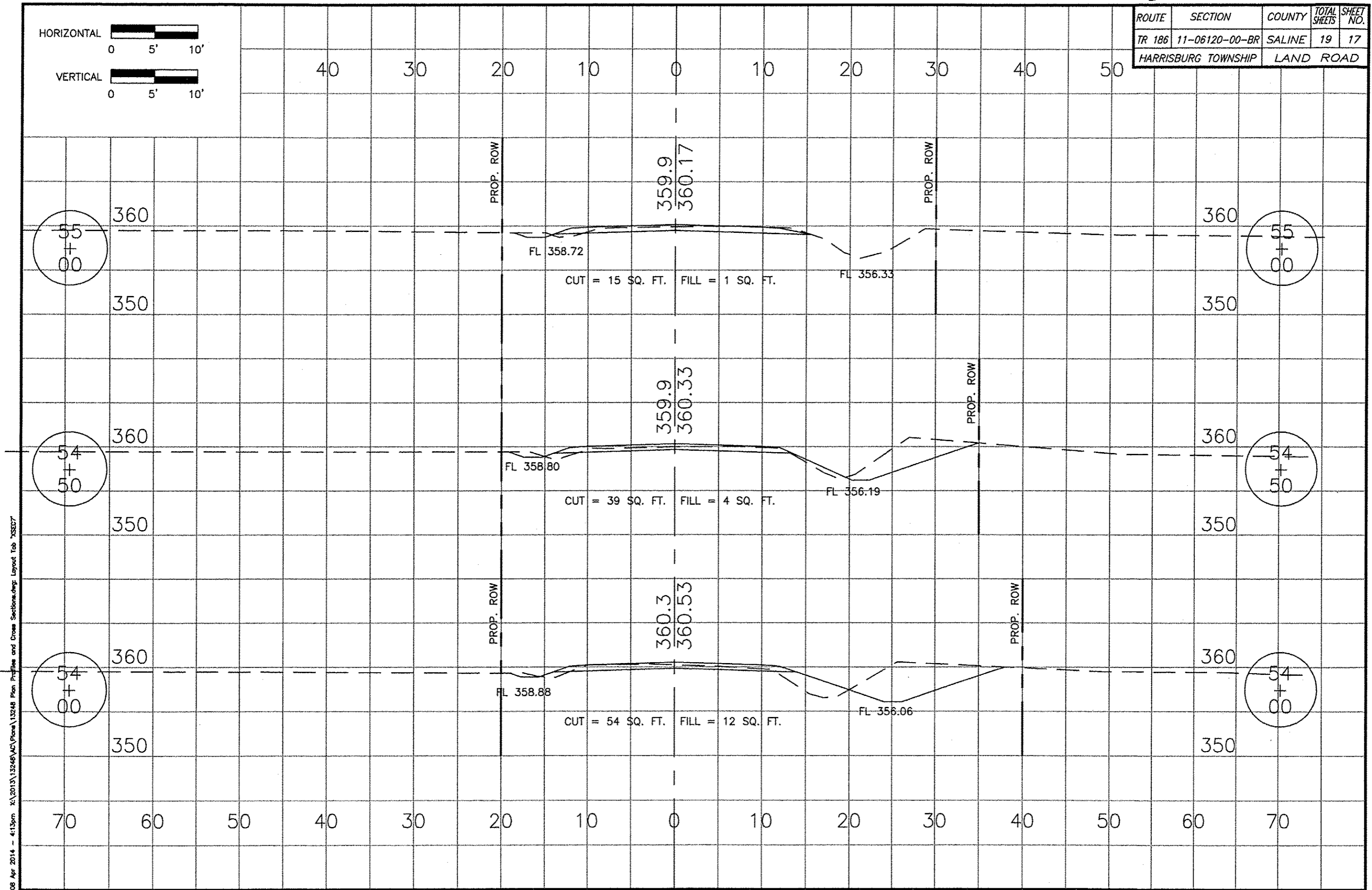
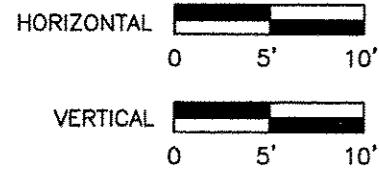
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	16
HARRISBURG TOWNSHIP		LAND ROAD		



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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	17
HARRISBURG TOWNSHIP		LAND ROAD		



55  
+  
00

55  
+  
00

54  
+  
50

54  
+  
50

54  
+  
00

54  
+  
00

PROP. ROW

PROP. ROW

PROP. ROW

PROP. ROW

FL 358.72

CUT = 15 SQ. FT. FILL = 1 SQ. FT.

FL 356.33

359.9  
360.17

FL 358.80

CUT = 39 SQ. FT. FILL = 4 SQ. FT.

FL 356.19

359.9  
360.33

FL 358.88

CUT = 54 SQ. FT. FILL = 12 SQ. FT.

FL 356.06

360.3  
360.53

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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	18
HARRISBURG TOWNSHIP			LAND ROAD	

**STORM WATER POLLUTION PREVENTION PLAN**

The following Plan is established and incorporated in the project 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 erosion within the construction site and to limit sediments leaving the construction site by utilizing proper temporary erosion control systems and providing ground cover within a reasonable amount of time.

Certain erosion control facilities shall be installed by the Contractor at the beginning of construction. Other items shall be installed as directed by the Engineer on a case by case situation depending on the Contractor's sequence of activities, time of year and expected weather conditions.

The Contractor shall construct permanent erosion control systems and seeding within a time frame specified herein and as directed by the Engineer, therefore minimizing the amount of area susceptible to erosion and reducing the amount of temporary seeding. The engineer will determine if any temporary erosion control systems shown in the plans can be deleted and if any additional temporary erosion control systems, which are not included in the plans, shall be added. The contractor shall perform all work as directed by the Engineer and as shown in STANDARD 280001.

Section 280, Temporary Erosion Control, of the Standard Specifications additionally supplements this plan.

**DESCRIPTION OF CONSTRUCTION ACTIVITIES**

1. Temporary ditch checks shall be located at every 1.5 feet of fall/rise in ditch grade.

**INTENDED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES**

1. Isolated tree removal. Trees to remain will be protected against damage.
2. Construct New Bridge.
3. Excavation and grading.
4. Placement of Aggregate Surface Course.
5. Seeding and permanent erosion control systems.

**AREA OF CONSTRUCTION SITE**

1. The total area of the construction site is estimated to be 0.7 Acres of which approximately 0.7 Acres will be disturbed.

**OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE SWPPP AS REFERENCED DOCUMENTS.**

1. Information of the terrain was obtained from topographic maps.
2. Project plan documents, specifications and special provisions and plan drawings indicating the drainage patterns and location of existing drainage features were utilized in the preparation of the proposed placement of temporary erosion control systems.

**DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF**


1. Proposed culvert outlets are tributary to existing roadside ditches. No new discharge points will be constructed.

**CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS**

1. Existing vegetation will be preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices will include temporary seeding, permanent seeding, mulching, protection of trees, preservation of mature vegetation and other appropriate measures as directed by the Engineer. Stabilization measures shall be initiated as soon as practical in those areas of the site where construction activities have ceased, but in no case more than 7 days after the construction activity for an area has temporarily or permanently ceased.
2. Areas outside the construction limits shall be protected from construction activities.
3. Dead, diseased or unsuitable vegetation within the site shall be removed as directed by the Engineer.
4. As soon as is reasonable, the temporary erosion control system shall be installed as indicated in the plans or as directed by the engineer.

This plan has been prepared with the intent to comply with the provisions of the NPDES Permit Number ILR10, issued by the Illinois Environmental Protection Agency for storm water discharges from construction site activities.

I certify under penalty of law that this plan was prepared at my direction in accordance with a system that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

  
JEFFREY M. JONES, COUNTY ENGINEER

06-27-14  
DATE:

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 186	11-06120-00-BR	SALINE	19	19
HARRISBURG TOWNSHIP			LAND ROAD	

**DESCRIPTION OF STABILIZATION PRACTICES  
DURING CONSTRUCTION**

1. During construction, areas outside the construction limits shall be protected.
2. Within the construction limits, areas which may be susceptible to erosion as determined by the Engineer shall remain undisturbed until full scale construction is underway.
3. Earth stockpiles shall be temporary seeded if they are to remain unused for more than 14 days.
4. As soon as construction proceeds, the contractor shall institute the following as directed by the Engineer:
  - A) Place temporary erosion control facilities at locations shown in the plans.
  - B) Temporarily seed erodable bare earth on a weekly basis to minimize the amount of erodable surface area within the contract limits.
  - C) Construct roadside ditches and provide temporary erosion control systems.
  - D) Temporarily divert water around proposed culvert locations.
5. Excavated areas shall be permanently seeded immediately after final grading. If not, they shall be temporarily seeded if no construction in the area is planned for 7 days.
6. All necessary measures shall be taken by the contractor to contain any fuel or pollutant in accordance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.
7. The Resident Engineer shall inspect the project daily during construction activities. Inspection shall also be done weekly and after rains of 0.5 inches or greater or equivalent snowfall and during any winter shutdown period.
8. Sediment collected during the construction by the various temporary erosion control systems shall be disposed of on site on a regular basis as directed by the Resident Engineer. The cost of this maintenance shall be considered incidental to the erosion control system.
9. The temporary erosion control systems shall be removed as directed by the Engineer after use is no longer needed or no longer functioning. The cost of removal shall be included in the unit bid price for various temporary erosion control pay items.

**DESCRIPTION OF STRUCTURAL PRACTICES  
AFTER FINAL GRADING**

1. Temporary seeding shall be left in place with proper maintenance until permanent erosion control and all proposed turf areas seeded and established.
2. Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up and disturbed turf areas reseeded.

**MAINTENANCE AFTER CONSTRUCTION**

1. Construction is complete after FINAL acceptance by I.D.O.T. final inspection. Maintenance up to this date will be by the contractor.

**MISCELLANEOUS**

1. Temporary ditch checks shall be located at every 1.5 feet of fall/rise in ditch grade.
2. Temporary erosion control seeding shall be applied at the rate of 100 lbs/acre.
3. Straw bales, hay bales, perimeter erosion control barrier and silt fences will not be permitted for temporary or permanent ditch checks. Ditch checks shall be composed of aggregate, silt panels, rolled excelsior, urethane foam geotextile (silt wedges) and/or other material approved by the erosion and sediment control coordinator.
4. All erosion control products furnished shall be specifically recommended by the manufacturer for the use specified in the erosion control plan. Prior to the approval and use of the product, the contractor shall submit to the Engineer a notarized certification by the producer stating the intended use of the product and the physical properties required for this application are met or exceeded. The contractor shall provide manufacturer installation procedures to facilitate the Engineer in construction inspection.
5. All items shall be constructed as shown on STANDARD 280001 and as directed by the Engineer. Maintenance and cleaning of erosion control items shall be considered part of the respective erosion control pay item.

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