

04-25-14 LETTING ITEM 158

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, COMMITMENTS AND TYPICAL CROSS SECTIONS
- 3 SUMMARY OF QUANTITIES
- 4 SCHEDULE OF QUANTITIES
- 5 ALIGNMENT, SURVEY TIES AND BENCHMARKS
- 6 T.R. 195 PLAN AND PROFILE SHEET
- 7-8 T.R. 56B PLAN AND PROFILE SHEETS
- 9 CHANNEL PLAN AND PROFILE SHEET
- 10 EROSION CONTROL PLAN
- 11-18 STRUCTURE PLANS S.N. 053-5532
- 19-27 STRUCTURE PLANS S.N. 053-4206
- 28-34 CROSS SECTIONS

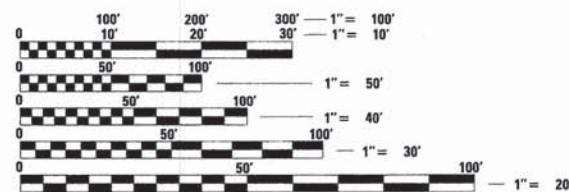
HIGHWAY STANDARD DETAILS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-03 NAME PLATE FOR BRIDGES
- 601101-01 CONCRETE HEADWALL FOR PIPE DRAIN
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 701901-03 TRAFFIC CONTROL DEVICES
- B.L.R. 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITIES:

- POWER - AMEREN (ILLINOIS POWER)
- TELEPHONE - FRONTIER

FUNCTIONAL CLASSIFICATION: LOCAL ROAD (NON-URBAN)
 DESIGN SPEED: 30 MPH
 DESIGN TRAFFIC: 0-250
 % TRUCKS: 0.0
 % PASSENGER VEHICLES: 100.0



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

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

JOB NUMBER C-93-022-12
CONTRACT NUMBER 87502
CONSTRUCTION TYPE CODE: ROADWAY: 0004
BRIDGE: 0011

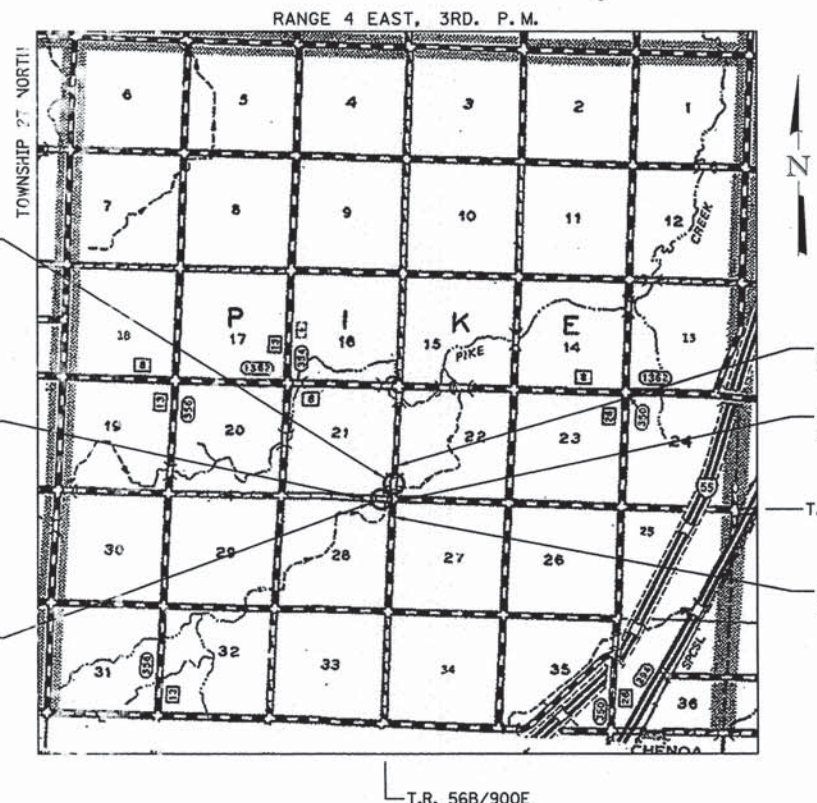
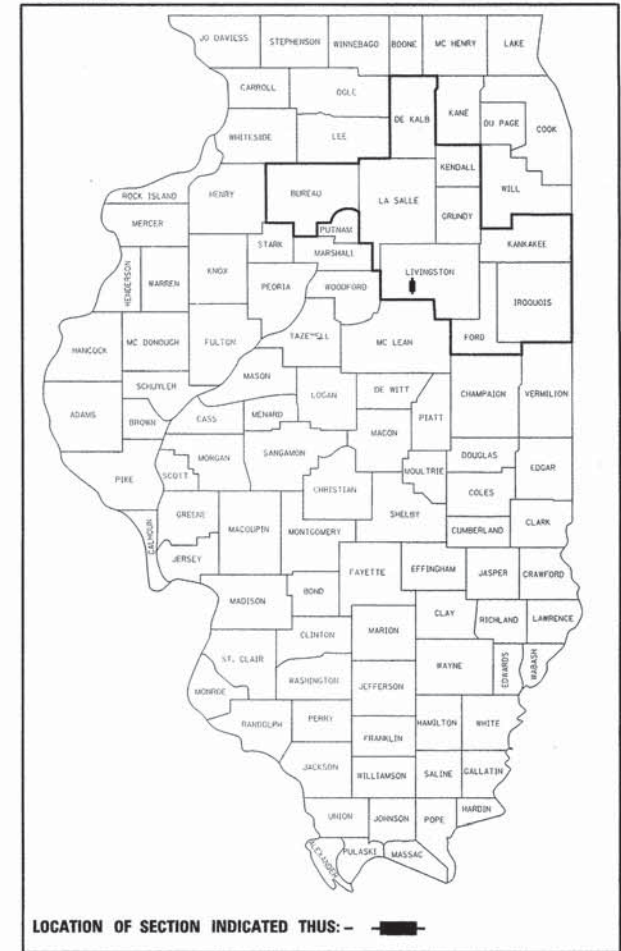
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
 SURFACE TRANSPORTATION
 PROGRAM - BRIDGE**

LIVINGSTON COUNTY
 PIKE ROAD DISTRICT
 SECTION 11-20115-03-BR
 ROUTE: T.R. 195 (1100N) & T.R. 56B (900E)
 FEDERAL PROJECT BROS-0105(051)

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	11-20115-03-BR	LIVINGSTON	34	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 87502	
* 195 & 56B				

C-93-022-12



LOCATION MAP



GROSS LENGTH OF PROJECT = 1,050.00 FT = 0.199 MILE
 NET LENGTH OF PROJECT = 1,020.00 FT = 0.193 MILE



John C. Zeman Date 01-31-14
 JOHN ZEMAN
 ILLINOIS PROFESSIONAL ENGINEER
 NO. 062-065759
 EXPIRATION 11/30/15



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED 02/05 2014
Mis Stan
 TOWNSHIP COMMISSIONER OF HIGHWAYS

SUBMITTED 2/14 2014
Paul R. E...
 COUNTY HIGHWAY ENGINEER

PASSED 2/14 2014
David R. E...
 DISTRICT 3 LOCAL ROADS AND STREETS ENGINEER

RELEASING FOR BID BASED ON LIMITED REVIEW 2/14 2014
Paul A. G...
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

GENERAL NOTES

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR BAGS PER BARRICADE.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS INCLUDED IN THESE PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
AGGREGATE (PRIME COAT)	0.002	TONS / SQ YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0003	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
AGGREGATE DITCH CHECKS	5	TONS AGGREGATE

BITUMINOUS MATERIALS (PRIME COAT) RATES		
SURFACE TYPE	ESTIMATED TRUCK APPLICATION RATE	RESIDUAL RATE
AGGREGATE BASES	0.375 GAL / SQ YD	N/A
MILLED HMA OR PCC PAVEMENT	0.08 GAL / SQ YD	0.04 GAL / SQ YD
EXISTING PAVEMENT	0.05 GAL / SQ YD	0.025 GAL / SQ YD
FOG COAT (BETWEEN ADDITIONAL HMA LIFTS)	0.05 GAL / SQ YD	0.025 GAL / SQ YD

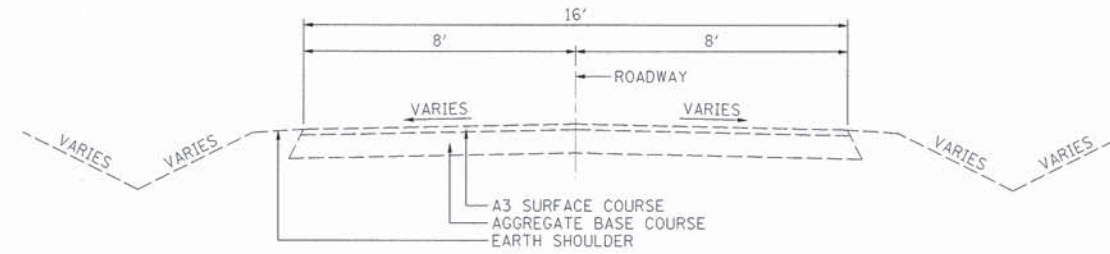
ESTIMATED TRUCK APPLICATION RATE USED FOR CALCULATING PLAN QUANTITIES

COMMITMENTS

NONE

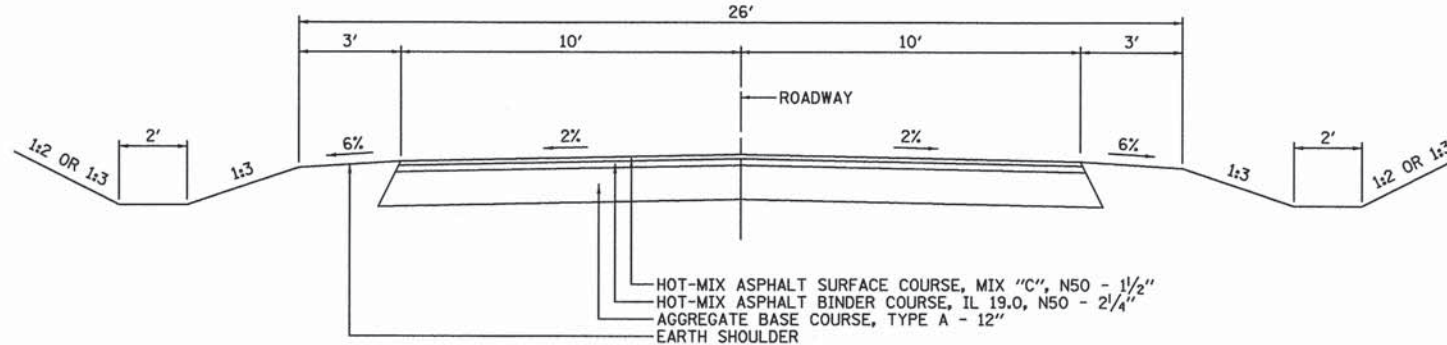
MIXTURES TABLE

	HMA SURFACE COURSE	HMA BINDER COURSE
PG GRADE	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 12.5 OR IL 9.5	IL 19.0
FRICITION AGGREGATE	MIXTURE C	-



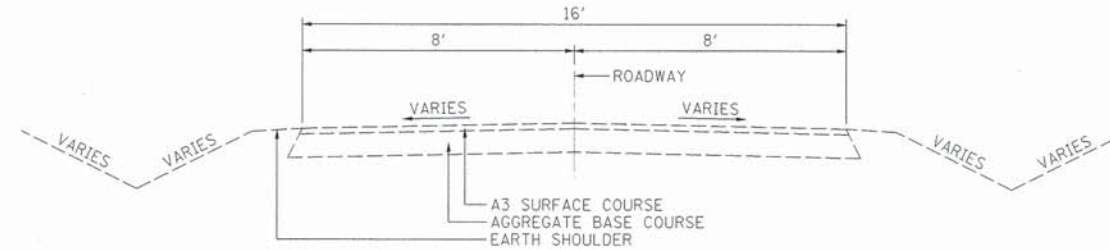
EXISTING TYPICAL CROSS SECTION

T.R. 195/1100N



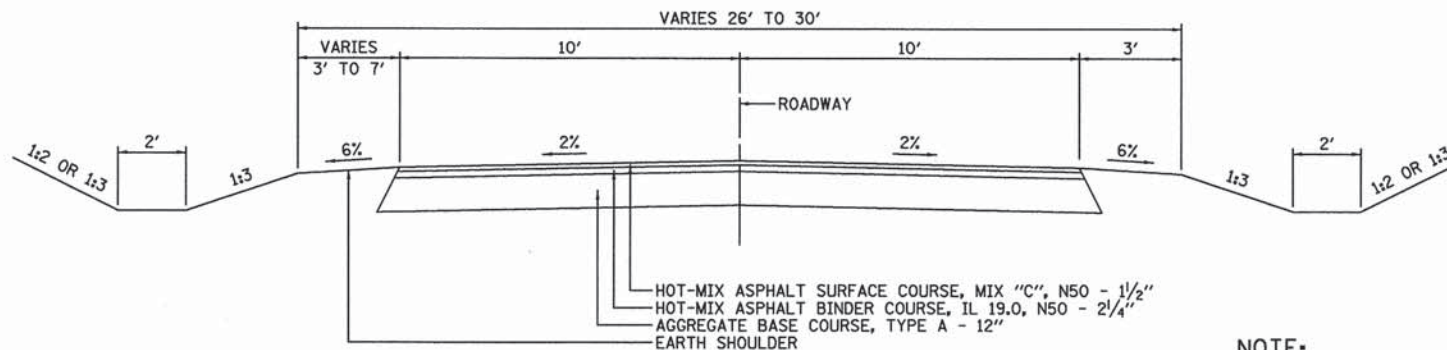
PROPOSED TYPICAL CROSS SECTION

T.R. 195/1100N



EXISTING TYPICAL CROSS SECTION

T.R. 56B/900E



PROPOSED TYPICAL CROSS SECTION

T.R. 56B/900E

NOTE:

HEAVY DUTY EROSION CONTROL BLANKET SHALL BE PLACED ON 1:2 (V:H) SLOPES AND ALL DITCH SLOPES GREATER THAN OR EQUAL TO 2.0%.



DESIGNED - JJO
CHECKED - JML
DRAWN - JJO
DATE - 01/31/14

REVISOR -
REVISOR -
REVISOR -
REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, COMMITMENTS
AND TYPICAL CROSS SECTIONS

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

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	11-20115-03-BR	LIVINGSTON	34	2
CONTRACT NO. 87502				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	BRIDGE
				0004 RURAL	0011 S. N. 053-5532	0011 S. N. 053-4206
20200100	EARTH EXCAVATION	CU YD	3,430	3,430		
20300100	CHANNEL EXCAVATION	CU YD	1,010			1,010
20700110	POROUS GRANULAR EMBANKMENT	TON	701	592		109
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	2,062	2,062		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,500	1,500		
28000305	TEMPORARY DITCH CHECKS	FOOT	112	112		
28000500	INLET AND PIPE PROTECTION	EACH	2	2		
28100107	STONE RIPRAP, CLASS A4	SQ YD	1,122		335	787
28200200	FILTER FABRIC	SQ YD	1,122		335	787
35100100	AGGREGATE BASE COURSE, TYPE A	TON	1,588	1,588		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	944	944		
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	276	276		
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	182	182		
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1
50105220	PIPE CULVERT REMOVAL	FCOT	57	57		
50200100	STRUCTURE EXCAVATION	CU YD	53			53
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	111		111	
50300225	CONCRETE STRUCTURES	CU YD	28.4			28.4
50300280	CONCRETE ENCASEMENT	CU YD	3.6			3.6
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	1,782			1,782
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	29,170		25,320	3,850
** 50900205	STEEL RAILING, TYPE S1	FOOT	206		70	136
51201400	FURNISHING STEEL PILES HP10X42	FOOT	148			148
51202305	DRIVING PILES	FOOT	148			148
51203400	TEST PILE STEEL HP10X42	EACH	1			1
51500100	NAME PLATES	EACH	2		1	1
54003000	CONCRETE BOX CULVERTS	CU YD	177.3		177.3	
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	40	40		
67100100	MOBILIZATION	L SUM	1	1		
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1		
** 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	8	8		
• Z0026407	TEMPORARY SHEET PILING	SQ FT	890		890	
• Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	128			128
• Z0054500	ROCK FILL	TON	220		220	
• X0324079	EXISTING FIELD TILE REMOVAL	FOOT	34	34		
• X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.5	1.5		
• X5121800	PERMANENT STEEL SHEET PILING	SQ FT	1,175		1,175	

* SPECIAL PROVISION

** SPECIALTY ITEM



DATE - 01/31/14

DESIGNED - JJO
CHECKED - JML
DRAWN - JJO
CHECKED - JCZ

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	11-20115-03-BR	LIVINGSTON	34	3
CONTRACT NO. 87502				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

EARTHWORK						
LOCATION	EARTH EXCAVATION		TOTAL EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)	
	CU YD		CU YD	CU YD	CU YD	CU YD
T. R. 195/1100N						
STA 24+00.00 TO STA 27+75.00	1,020		765	360		405
T. R. 56B/900E						
STA 85+25.00 TO STA 88+94.25	2,210		1,660	945		715
STA 89+62.25 TO STA 92+00.00	200		150	165		-15
TOTAL	3,430		2,575	1,470		1,105

POROUS GRANULAR EMBANKMENT - 20700110	
LOCATION	TON
S. N. 053-5532	592

HEAVY DUTY EROSION CONTROL BLANKET - 25100635			
STATION	TO	STATION	SQ YD
T. R. 195/1100N			
STA 25+47.34 RT		STA 25+77.58 RT	31
STA 25+50.43 LT		STA 25+81.75 LT	30
STA 26+58.65 RT		STA 27+50.00 RT	106
STA 26+71.01 LT		STA 27+75.12 LT	106
T. R. 56B/900E			
STA 84+90.00 LT		STA 86+10.45 LT	526
STA 87+10.68 LT		STA 88+94.25 LT	812
STA 88+50.01 RT		STA 88+94.25 RT	50
STA 89+62.19 LT		STA 89+99.30 LT	45
STA 89+62.19 RT		STA 89+99.30 RT	44
STA 91+25.00 RT		STA 92+30.00 RT	104
CHANNEL			
STA 189+87.85 RT		STA 190+35.76 RT	97
STA 189+93.17 LT		STA 190+35.76 LT	111
TOTAL			2,062

TEMPORARY EROSION CONTROL SEEDING - 28000250			
STATION	TO	STATION	POUND
T. R. 195/1100N			
STA 23+70.00 LT		STA 27+85.00 LT	250
STA 23+70.00 RT		STA 28+10.00 RT	250
T. R. 56B/900E			
STA 84+90.00 LT/RT		STA 86+10.00 LT/RT	250
STA 87+11.00 LT		STA 92+30.00 LT	500
STA 87+11.00 RT		STA 92+30.00 RT	250
TOTAL			1,500

TEMPORARY DITCH CHECKS - 28000305	
STATION	FOOT
T. R. 195/1100N	
STA 25+70.00 LT	14
STA 25+70.00 RT	14
STA 26+75.00 LT	14
T. R. 56B/900E	
STA 88+90.00 RT	14
STA 89+70.00 LT	14
STA 89+70.00 RT	14
STA 91+00.00 LT	14
STA 91+25.00 RT	14
TOTAL	112

INLET AND PIPE PROTECTION - 28000500	
STATION	EACH
T. R. 195/1100N	
STA 26+71.00 RT	1
STA 27+00.00 RT	1
TOTAL	2

AGGREGATE BASE COURSE, TYPE A - 35100100			
STATION	TO	STATION	TON
T. R. 195/1100N			
STA 24+00.00		STA 26+05.73	308
STA 26+05.73		STA 26+85.95	290
STA 26+85.95		STA 27+75.00	133
T. R. 56B/900E			
STA 85+25.00		STA 86+19.85	156
STA 87+00.58		STA 88+94.25	318
STA 89+62.25		STA 92+00.00	383
TOTAL			1,588

BITUMINOUS MATERIALS (PRIME COAT) - 40600100			
STATION	TO	STATION	GALLON
T. R. 195/1100N			
STA 24+00.00		STA 26+05.73	182
STA 26+05.73		STA 26+85.95	177
STA 26+85.95		STA 27+75.00	78
T. R. 56B/900E			
STA 85+25.00		STA 86+19.85	92
STA 87+00.58		STA 88+94.25	188
STA 89+62.25		STA 92+00.00	227
TOTAL			944

HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 - 40603080			
STATION	TO	STATION	TON
T. R. 195/1100N			
STA 24+00.00		STA 26+05.73	53
STA 26+05.73		STA 26+85.95	51
STA 26+85.95		STA 27+75.00	23
T. R. 56B/900E			
STA 85+25.00		STA 86+19.85	27
STA 87+00.58		STA 88+94.25	55
STA 89+62.25		STA 92+00.00	67
TOTAL			276

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 - 40603310			
STATION	TO	STATION	TON
T. R. 195/1100N			
STA 24+00.00		STA 26+05.73	35
STA 26+05.73		STA 26+85.95	34
STA 26+85.95		STA 27+75.00	15
T. R. 56B/900E			
STA 85+25.00		STA 86+19.85	18
STA 87+00.58		STA 88+94.25	36
STA 89+62.25		STA 92+00.00	44
TOTAL			182

PIPE CULVERT REMOVAL - 50105220	
STATION	FOOT
T. R. 195/1100N	
STA 27+30.00 LT	18
T. R. 56B/900E	
STA 89+55.00 LT	39
TOTAL	57

CONTROLLED LOW-STRENGTH MATERIAL - 59300100	
LOCATION	CU YD
S. N. 053-5532	40

MOBILIZATION - 67100100	
LOCATION	L SUM
ENTIRE PROJECT	1

TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21 - 70101830	
LOCATION	L SUM
ENTIRE PROJECT	1

TERMINAL MARKER - DIRECT APPLIED - 78201000	
STATION	EACH
T. R. 195/1100N	
STA 25+80.50 LT	1
STA 25+80.50 RT	1
STA 26+19.50 LT	1
STA 26+19.50 RT	1
T. R. 56B/900E	
STA 88+92.25 LT	1
STA 88+92.25 RT	1
STA 89+64.25 LT	1
STA 89+64.25 RT	1
TOTAL	8

EXISTING FIELD TILE REMOVAL - X0324079	
STATION	FOOT
T. R. 56B/900E	
STA 89+31.50 LT	21
STA 89+38.25 LT	13
TOTAL	34

SEEDING, CLASS 2 (SPECIAL) - X2501000			
STATION	TO	STATION	ACRE
T. R. 195/1100N			
STA 23+70.00 LT		STA 27+85.00 LT	0.25
STA 23+70.00 RT		STA 28+10.00 RT	0.25
T. R. 56B/900E			
STA 84+90.00 LT/RT		STA 86+10.00 LT/RT	0.25
STA 87+11.00 LT		STA 92+30.00 LT	0.5
STA 87+11.00 RT		STA 92+30.00 RT	0.25
TOTAL			1.5



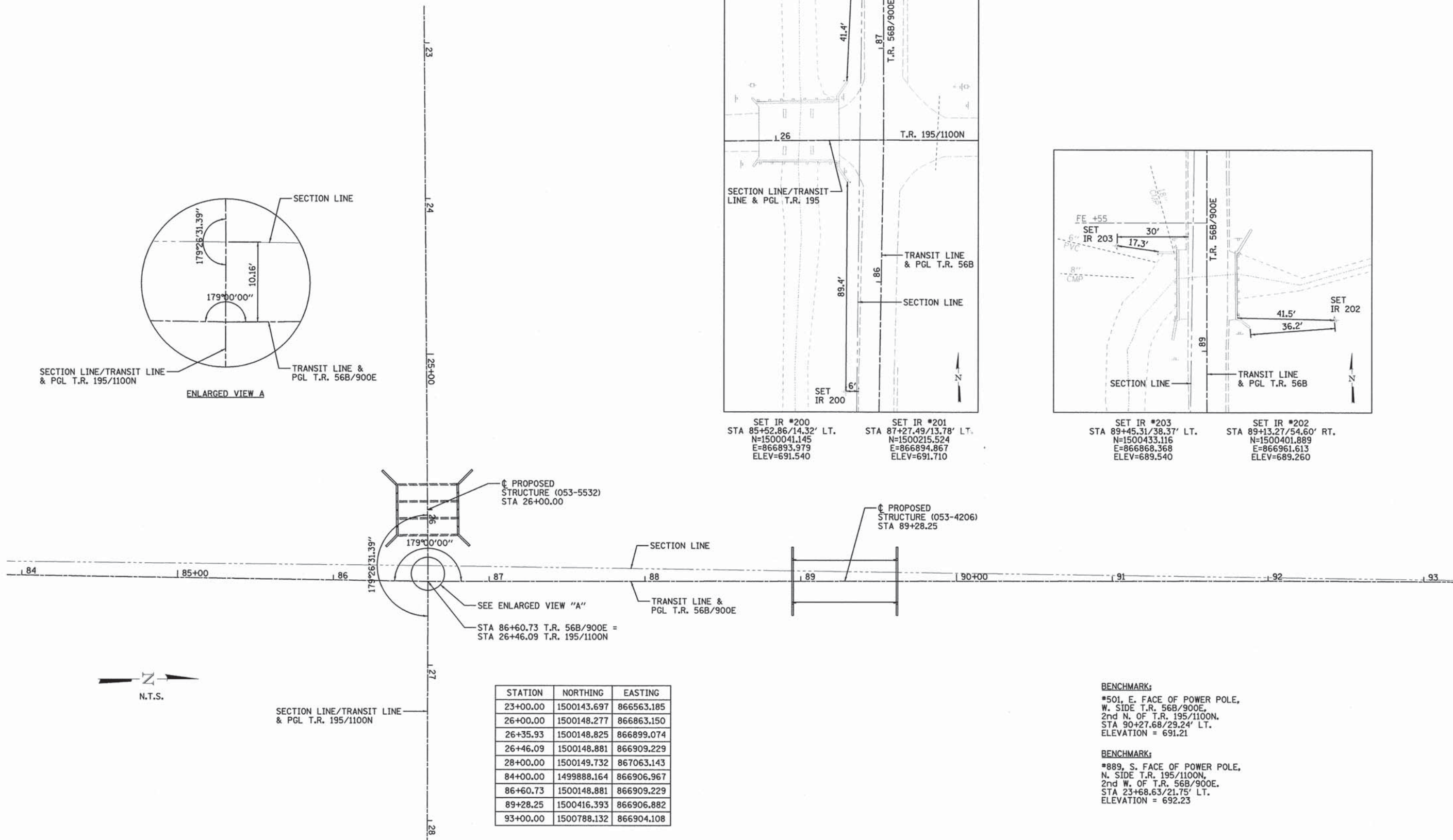
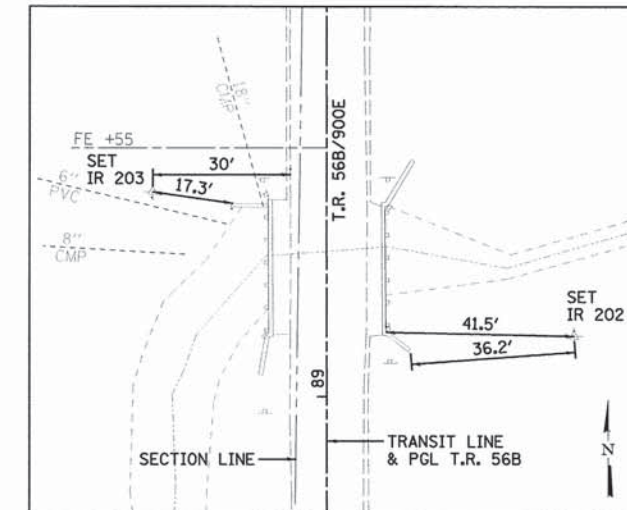
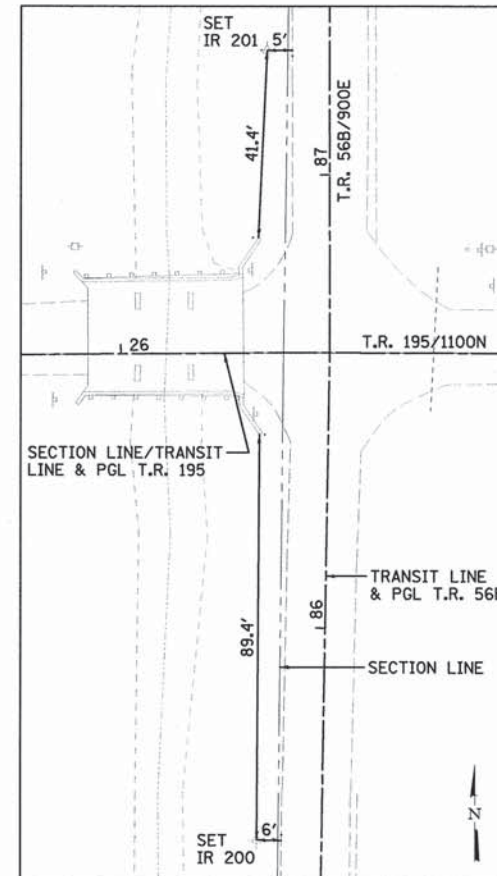
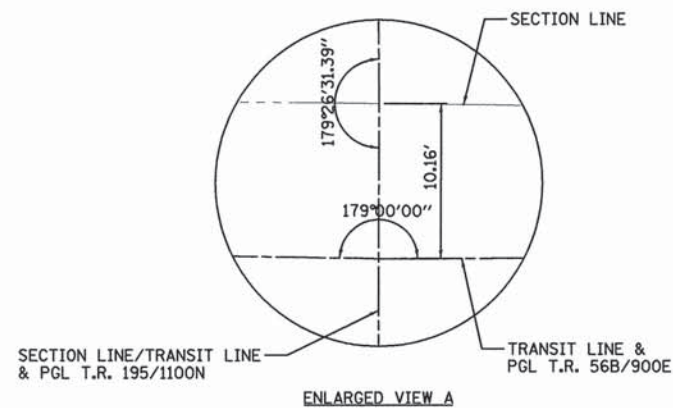
DESIGNED - JJQ	REVISION
CHECKED - JML	REVISION
DRAWN - JJQ	REVISION
CHECKED - JCZ	REVISION

DATE - 01/31/14

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

T. R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	11-20115-03-BR	LIVINGSTON	34	4
CONTRACT NO. 87502				
[ILLINOIS] FED. AID PROJECT				



STATION	NORTHING	EASTING
23+00.00	1500143.697	866563.185
26+00.00	1500148.277	866863.150
26+35.93	1500148.825	866899.074
26+46.09	1500148.881	866909.229
28+00.00	1500149.732	867063.143
84+00.00	1499888.164	866906.967
86+60.73	1500148.881	866909.229
89+28.25	1500416.393	866906.882
93+00.00	1500788.132	866904.108

BENCHMARK:
 *501, E. FACE OF POWER POLE,
 W. SIDE T.R. 56B/900E,
 2nd N. OF T.R. 195/1100N,
 STA 90+27.68/29.24' LT.
 ELEVATION = 691.21

BENCHMARK:
 *889, S. FACE OF POWER POLE,
 N. SIDE T.R. 195/1100N,
 2nd W. OF T.R. 56B/900E,
 STA 23+68.63/21.75' LT.
 ELEVATION = 692.23

Farnsworth
 GROUP, INC.
 2709 McGraw Drive
 Bloomington, Illinois 61704
 309/663-8435, 309/663-1371 fax

DESIGNED - JJO
 CHECKED - JML
 DRAWN - JJO
 CHECKED - JCZ

DATE - 01/31/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

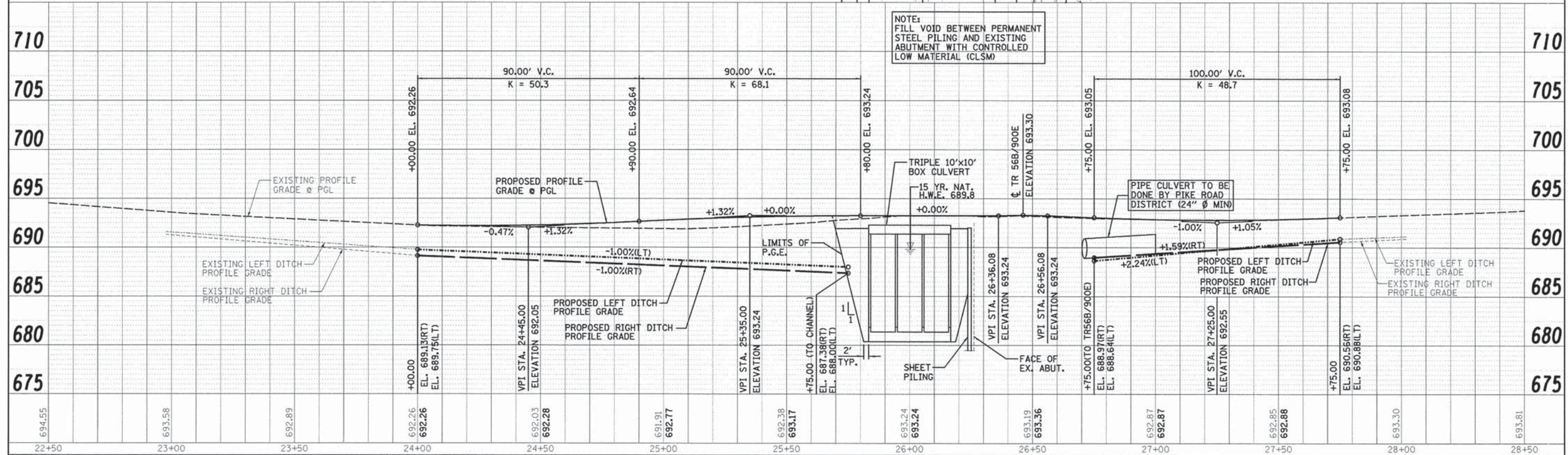
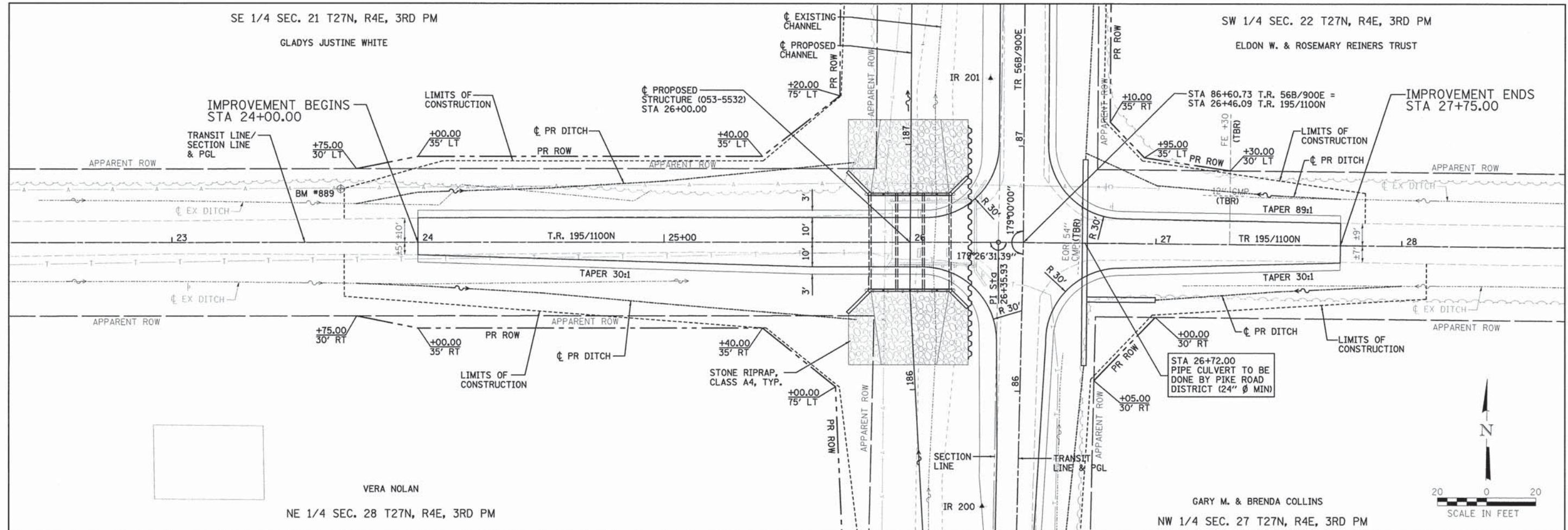
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, SURVEY TIES AND BENCHMARKS

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

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	11-20115-03-BR	LIVINGSTON	34	5
CONTRACT NO. 87502				

ILLINOIS FED. AID PROJECT



PLAN	DATE
NO.	BY
NO.	DATE
NO.	DATE
NO.	DATE

PROFILE	DATE
NO.	BY
NO.	DATE
NO.	DATE
NO.	DATE

Farnsworth GROUP, INC.
 2709 McGraw Drive
 Bloomington, Illinois 61704
 309/663-8436, 309/663-1571 fax

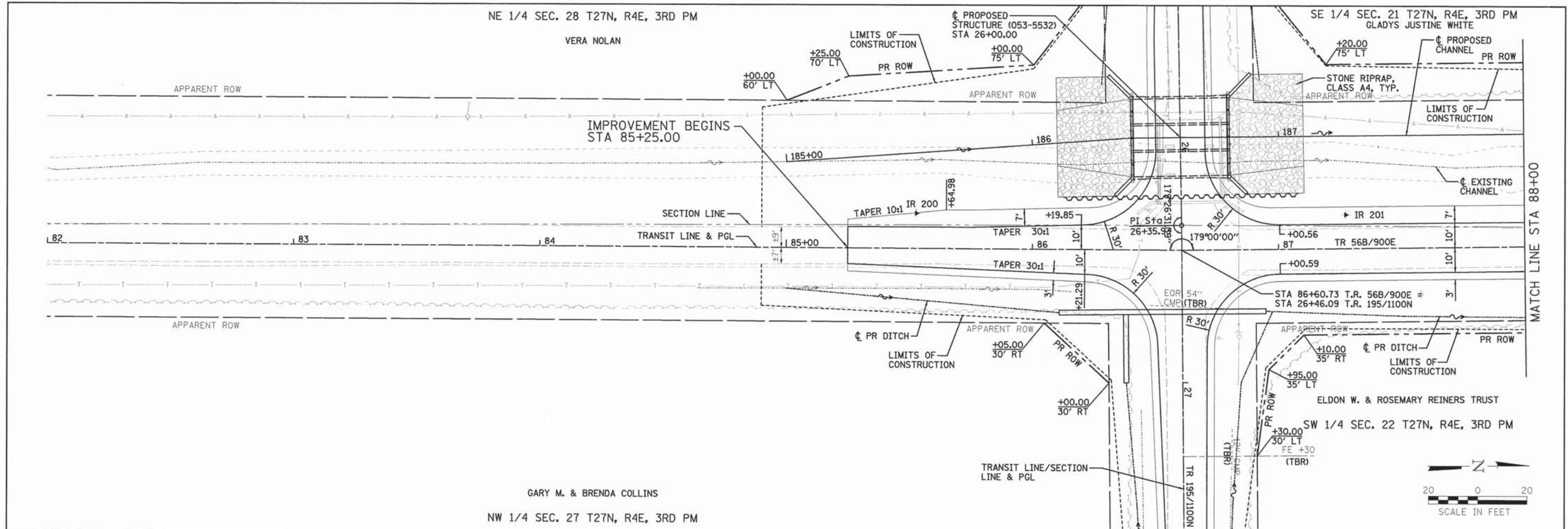
DESIGNED - JJO	REVISION
CHECKED - JML	REVISION
DRAWN - JJO	REVISION
CHECKED - JCZ	REVISION

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

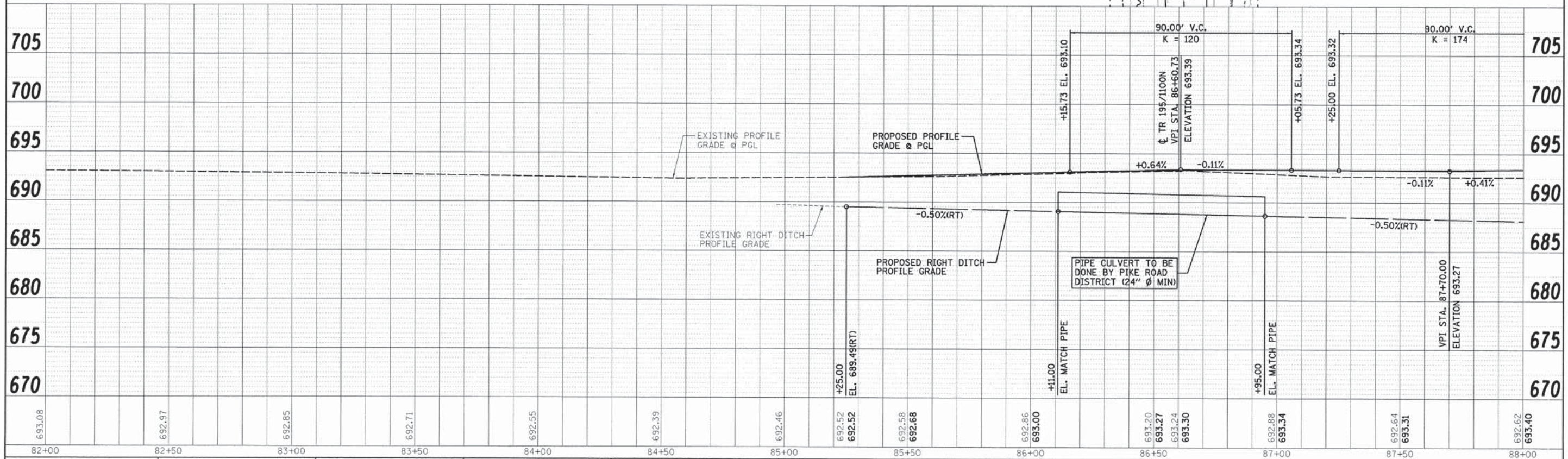
T.R. 195 PLAN & PROFILE			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS
11-20115-03-BR	LIVINGSTON	34	6
CONTRACT NO. 87502			
ILLINOIS FED. AID PROJECT			

PLAN	DATE
REVISIONS	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	



PROFILE	DATE
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	



DESIGNED - JJO	REVISOR	T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - JML	REVISOR	11-2015-03-BR	LIVINGSTON	34	7	
DRAWN - JJO	REVISOR	CONTRACT NO. 87502				
CHECKED - JCZ	REVISOR	ILLINOIS FED. AID PROJECT				

Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

DATE - 01/31/14

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

T.R. 56B PLAN & PROFILE

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

• 195 & 56B

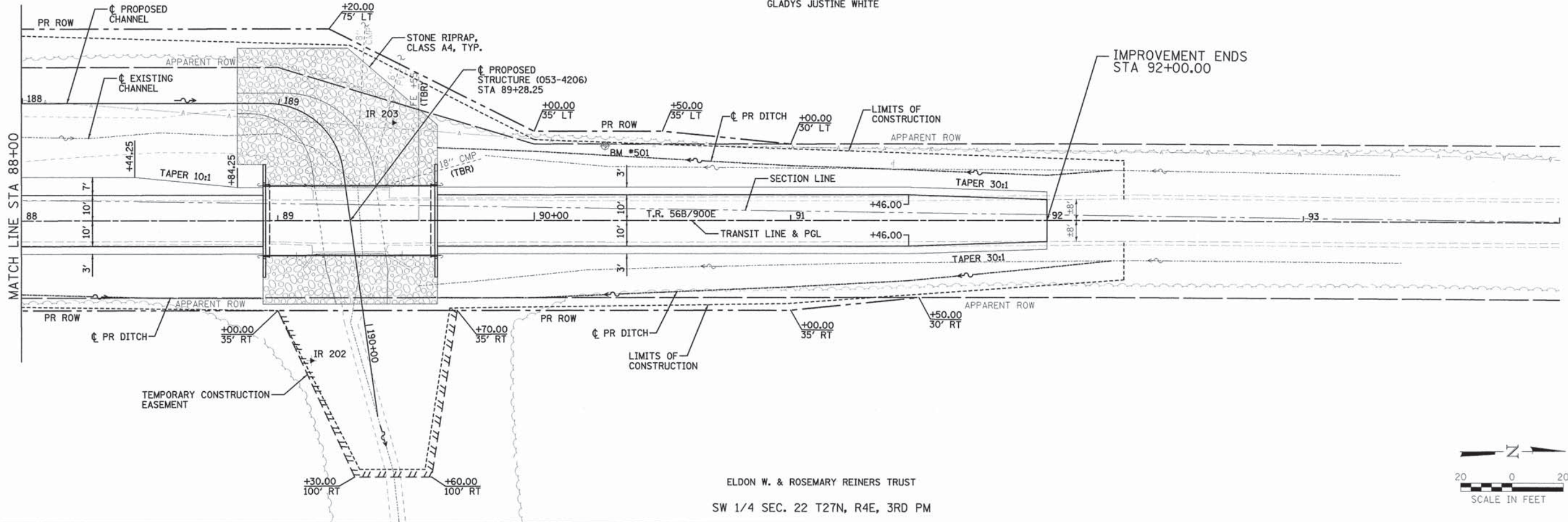
24-8651

SE 1/4 SEC. 21 T27N, R4E, 3RD PM

GLADYS JUSTINE WHITE

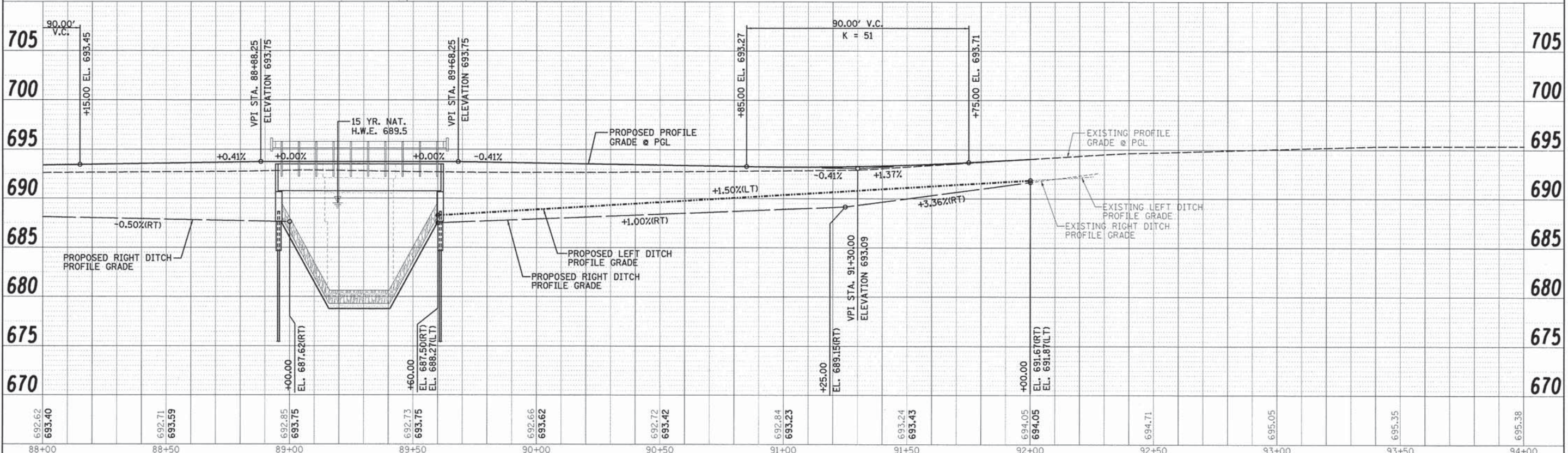
ELDON W. & ROSEMARY REINERS TRUST

SW 1/4 SEC. 22 T27N, R4E, 3RD PM



PLAN	DATE
REVISION	BY
NOTED	DATE
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

PROFILE	DATE
REVISION	BY
NOTED	DATE
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	



692.62	693.40	692.71	693.59	692.85	693.75	692.73	693.75	692.66	693.62	692.72	693.42	692.84	693.23	693.24	693.43	694.05	694.05	694.71	695.05	695.35	695.38	
88+00		88+50		89+00		89+50		90+00		90+50		91+00		91+50		92+00		92+50		93+00		94+00

Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

DESIGNED - JJO
CHECKED - JML
DRAWN - JJO
CHECKED - JCZ

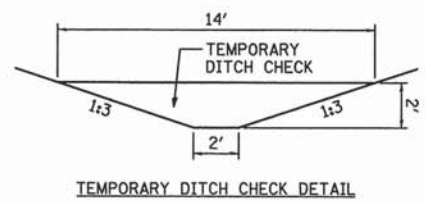
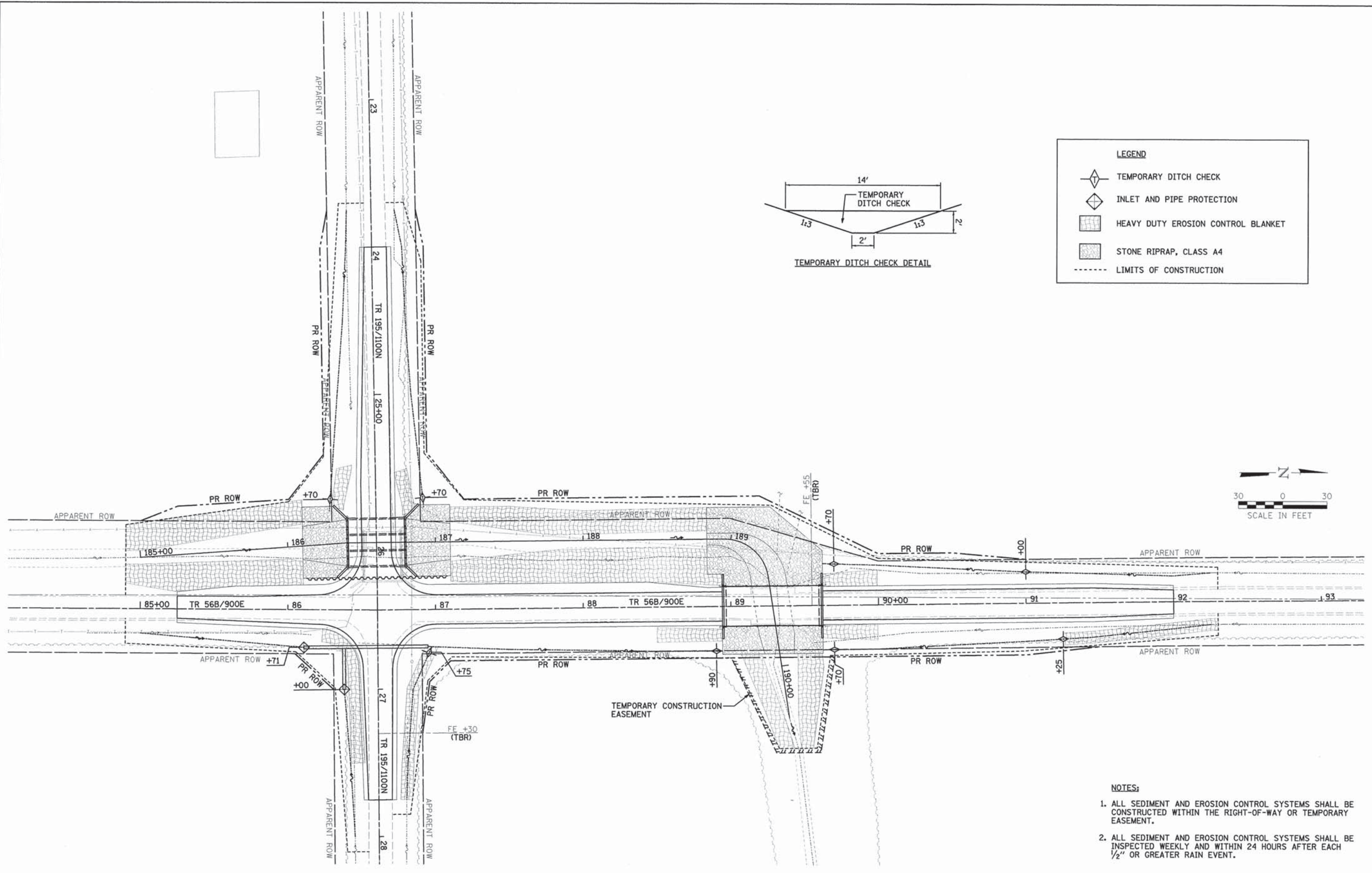
REVISIONS
REVISION
REVISION
REVISION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

T.R. 56B PLAN & PROFILE

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11-20115-03-BR	LIVINGSTON	34	8	
CONTRACT NO. 87502				
ILLINOIS FED. AID PROJECT				

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



LEGEND

- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- HEAVY DUTY EROSION CONTROL BLANKET
- STONE RIPRAP, CLASS A4
- LIMITS OF CONSTRUCTION



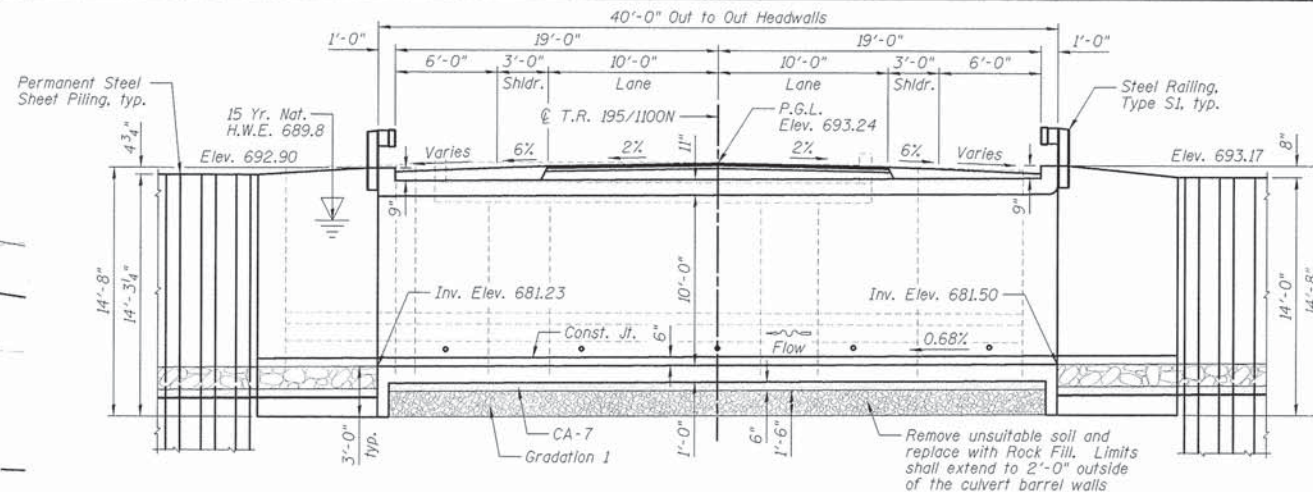
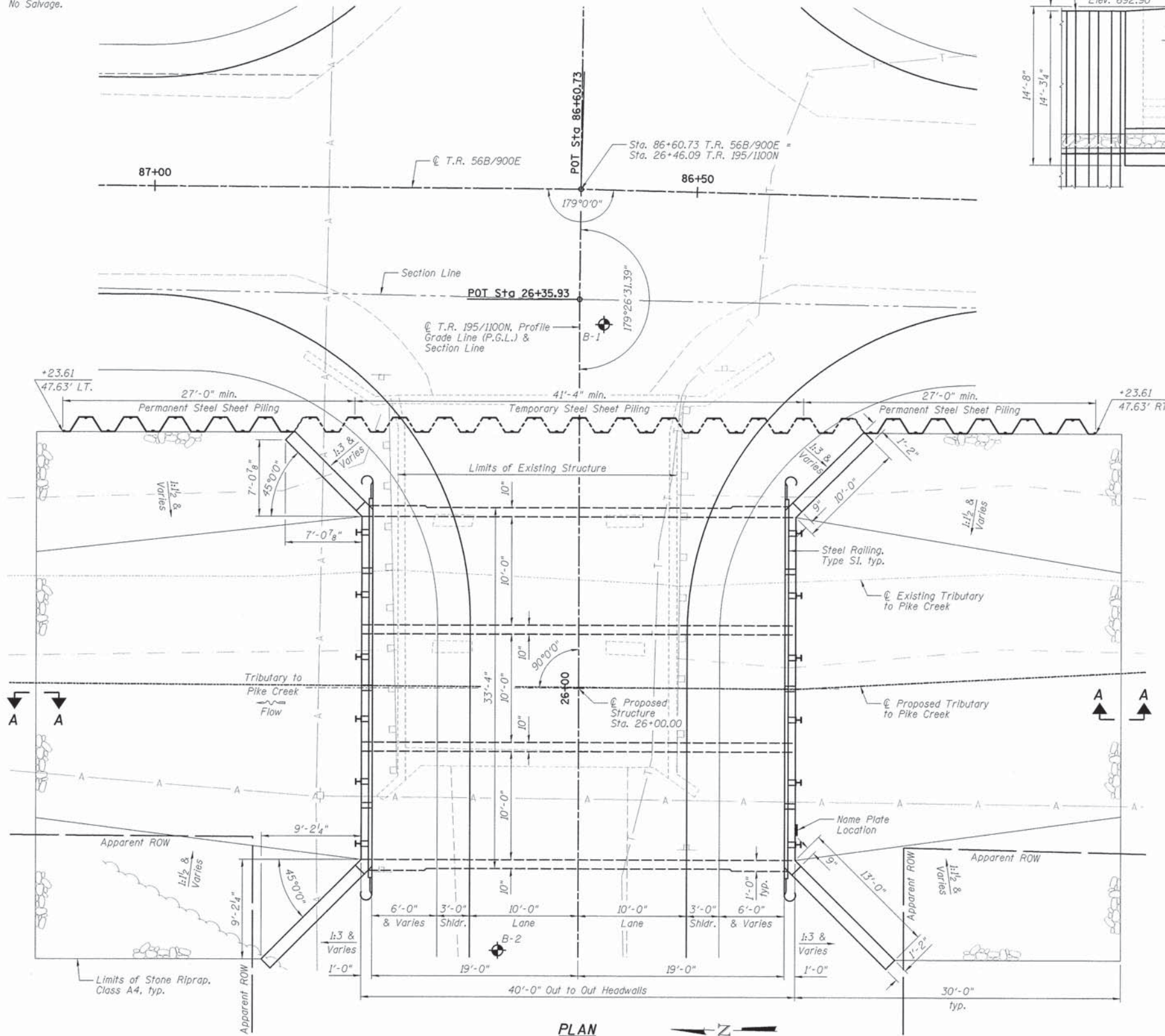
- NOTES:**
1. ALL SEDIMENT AND EROSION CONTROL SYSTEMS SHALL BE CONSTRUCTED WITHIN THE RIGHT-OF-WAY OR TEMPORARY EASEMENT.
 2. ALL SEDIMENT AND EROSION CONTROL SYSTEMS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EACH 1/2" OR GREATER RAIN EVENT.

<p>Farnsworth GROUP, INC. 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax</p>	DESIGNED - JJO	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN		T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - JML	REVISIONS		11-20115-03-BR	LIVINGSTON	34	10			
DATE - 01/31/14	DRAWN - JJO	REVISIONS	SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 87502		<small>ILLINOIS FED. AID PROJECT</small>			
CHECKED - JCZ	REVISIONS					<small>• 195 & 568 24-8651</small>				

Benchmarks: BM #501 Cotton Picker Spindle set in East face of 2nd power pole on West side of 900E, ±360' North of 1100N, Station 90+27.68/29.24' LT., Elevation 691.21.
 BM #889 Cotton Picker Spindle set in South face of 2nd power pole on North side of 1100N, ±250' West of 900E, Station 23+68.63/21.75' LT., Elevation 692.23.

Existing Structure: S.N. 053-3321 was originally constructed in 1955. The structure consists of a three span continuous steel beam superstructure with closed concrete abutments and rectangular pier columns. The back to back abutment dimension measures ±34'-4" and the width measures ±25'-9". The structure is to be replaced during road closure.

No Salvage.



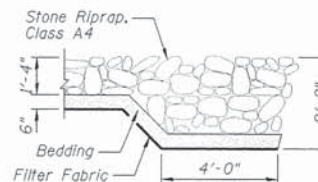
LONGITUDINAL SECTION

WATERWAY INFORMATION

Drainage Area = 8.1 Sq. Mi. Existing Low Grade Elev. 691.91 @ Sta. 25+00.00
 Proposed Low Grade Elev. 693.05 @ Sta. 25+00.00

Flood Yr.	Freq.	C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
Design	15	720	247	300	689.8	0.7
Base	100	1120	247	300	690.6	0.1
Overlapping						
Max. Calc.						

10 Yr. Velocity = 2.72 ft/sec. (Proposed)
 10 Yr. Velocity = 3.55 ft/sec. (Existing)



SECTION A-A

INDEX OF SHEETS

SHEET NO.	TITLE
A1	GENERAL PLAN AND ELEVATION
A2	GENERAL DATA
A3	SLAB REINFORCEMENT AND DETAILS
A4	BARREL WALL ELEVATIONS
A5	WINGWALL DETAILS
A6	STEEL RAILING, TYPE S1
A7-A8	SOIL BORING LOGS

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, Customary U.S. Units, 6th Edition

DESIGN STRESSES

FIELD UNITS

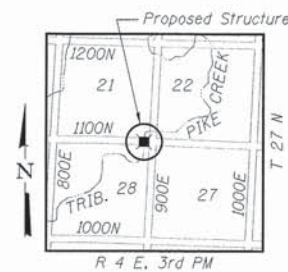
f'c = 3,500 psi (Cast-In-Place Concrete)
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (ASTM A572 Steel Sheet Piling)

LOADING HL-93

Allow 25#/sq. ft. for future wearing surface.



JOSEPH M. LOWRANCE
 ILLINOIS STRUCTURAL ENGINEER
 NO. 081-006446
 Exp. Date 11/30/14



LOCATION SKETCH

T.R. 195 OVER TRIBUTARY TO PIKE CREEK
 SECTION 11-20115-03-BR
 LIVINGSTON COUNTY
 STA. 26+00.00

Farnsworth GROUP, INC.
 2709 McGraw Drive
 Bloomington, Illinois 61704
 309/663-8435, 309/663-1571 fax

DESIGNED - TCR
 CHECKED - JML
 DRAWN - DJM
 DATE - 01/31/14

REVISOR
 REVISOR
 REVISOR
 REVISOR

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 STRUCTURE NO. 053-3321

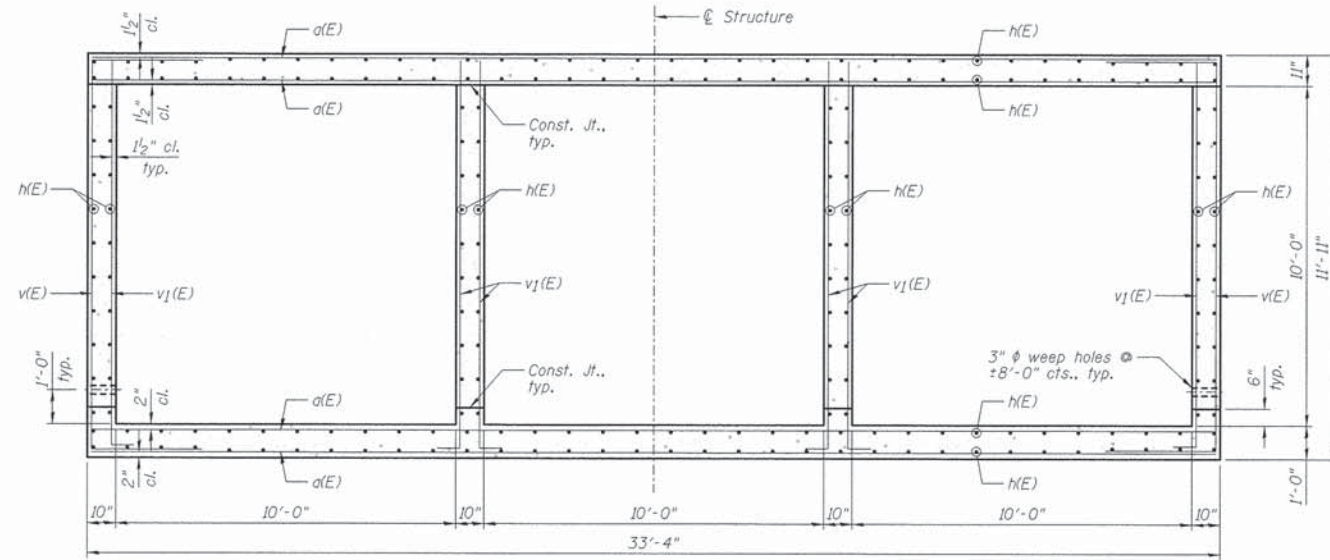
SHEET NO. A1 OF 8 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
195	11-20115-03-BR	LIVINGSTON	34	11

CONTRACT NO. 87502
 ILLINOIS FED. AID PROJECT

GENERAL NOTES

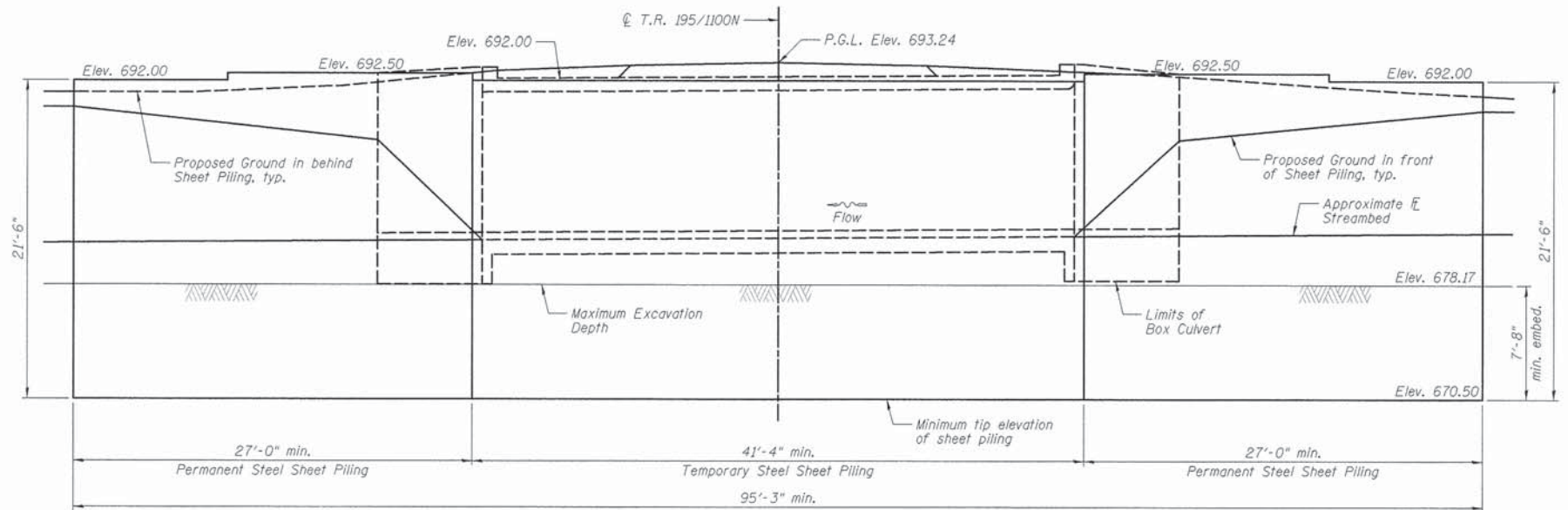
- 1.) At least 6'-0" of this culvert barrel shall be poured monolithically with the wingwalls.
- 2.) Exposed edges shall be beveled 3/4".
- 3.) For backfilling and embankment, see standard specifications and roadway plans.
- 4.) It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included with "Concrete Box Culverts".
- 5.) The Contractor shall field locate and protect all utilities before starting construction. The Contractor shall submit information regarding the protection of all utilities to the Engineer for review.
- 6.) There will be no additional compensation should any reinforcement need to be cut or bent in the field.
- 7.) Where called for, construction joints shall be bonded in accordance with section 503.09(b) of the Standard Specifications.
- 8.) Layout of the Slope Protection System may be varied to suit ground conditions in the field as directed by the Engineer.
- 9.) Precast concrete box culverts will not be allowed.
- 10.) The pay item "Removal and Disposal of Unsuitable Material for Structures" shall include the excavation of unsuitable material for a depth of 2'-0" below the structure for a width of approximately 37'-4" within the limits of the toewalls as shown on the plans. The actual quantity shall be determined in the field by the Engineer.
- 11.) The pay item "Rock Fill" shall include the placement of Gradation 1 and CA-7 below the structure for a width of approximately 37'-4" within the limits of the toewalls as shown on the plans. The actual quantity shall be determined in the field by the Engineer.
- 12.) The "Temporary Sheet Piling" quantity maybe eliminated from the contract if it is determined in the field that the existing East Abutment can retain the roadway embankment of TR 56B/900E without the support of the existing bridge superstructure.



SECTION THRU CULVERT

TOTAL BILL OF MATERIAL

ITEMS	UNITS	TOTAL
Stone Riprap, Class A4	Sq. Yd.	335
Filter Fabric	Sq. Yd.	335
Removal of Existing Structures No. 1	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	111
Reinforcement Bars, Epoxy Coated	Pound	25,320
Steel Railing, Type S1	Foot	70
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	177.3
Temporary Sheet Piling	Sq. Ft.	890
Rock Fill	Ton	220
Permanent Steel Sheet Piling	Sq. Ft.	1,175



SHEET PILING ELEVATION

NOTE:

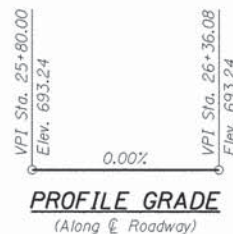
The Temporary Sheet Piling and Permanent Steel Sheet Piling shall have a minimum elastic section modulus of 33.5 in³/ft and a minimum moment of inertia of 250.4 in⁴/ft.

BILL OF MATERIAL

Item	Unit	Quantity
Temporary Sheet Piling	Sq. Ft.	890
Permanent Steel Sheet Piling	Sq. Ft.	1,175

TRIBUTARY TO PIKE CREEK
BUILT 20__ BY
LIVINGSTON COUNTY
SECTION 11-20115-03-BR
STATION 26+00.00
STR. NO. 053-5532 LOADING HL-93

NAME PLATE
See Standard 515001



PROFILE GRADE
(Along \bar{C} Roadway)

Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

DATE - 01/31/14

DESIGNED - TCR
CHECKED - JML
DRAWN - DJM
CHECKED - MSW

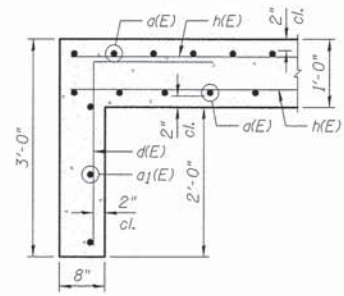
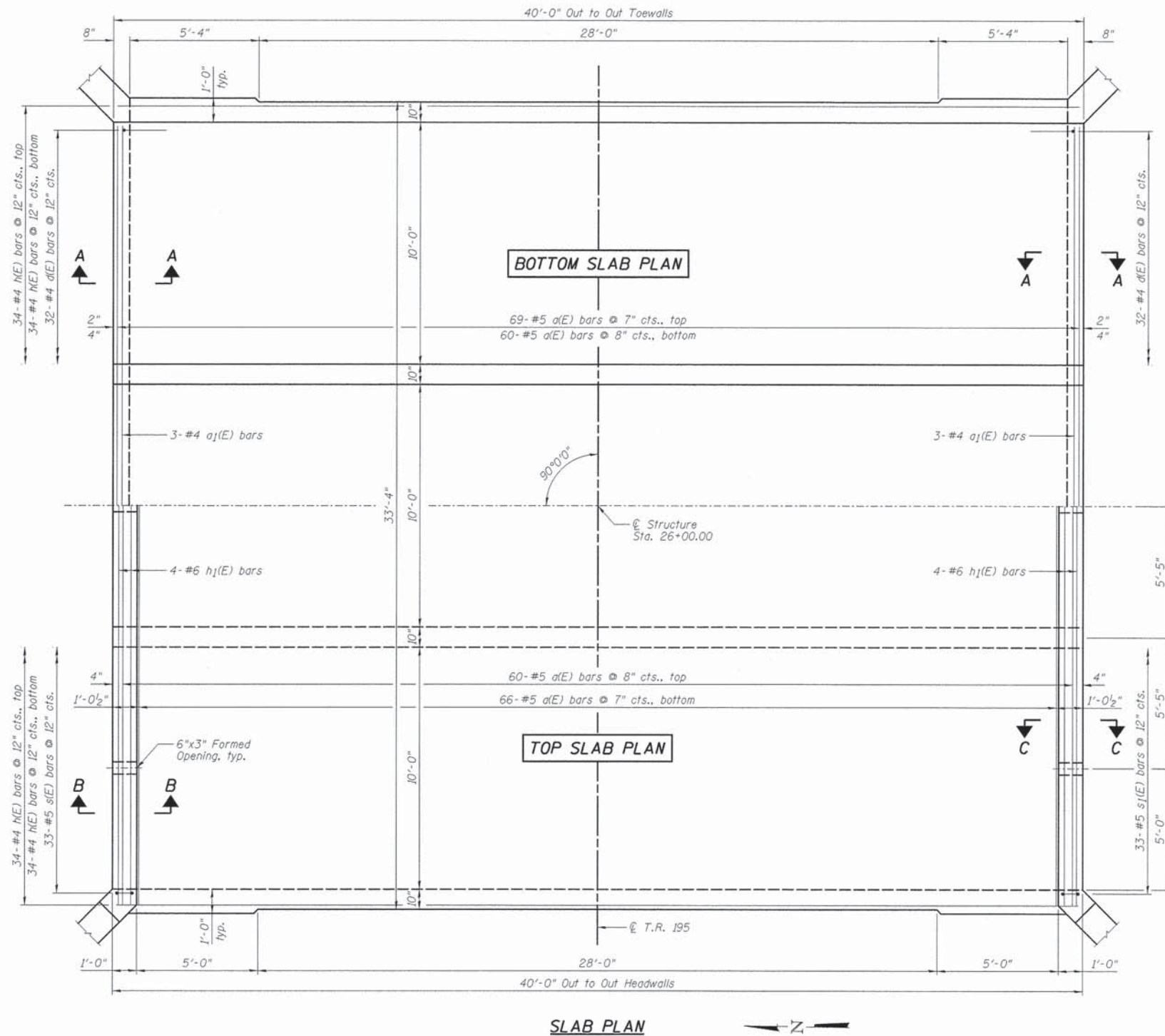
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REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

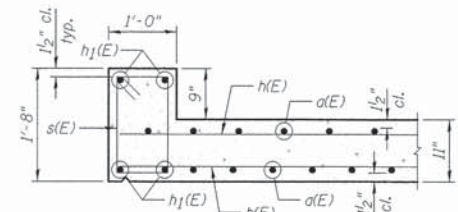
**GENERAL DATA
STRUCTURE NO. 053-3321**

SHEET NO. A2 OF 8 SHEETS

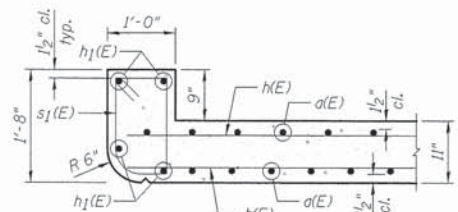
T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
195	11-20115-03-BR	LIVINGSTON	34	12
CONTRACT NO. 87502			ILLINOIS FED. AID PROJECT	



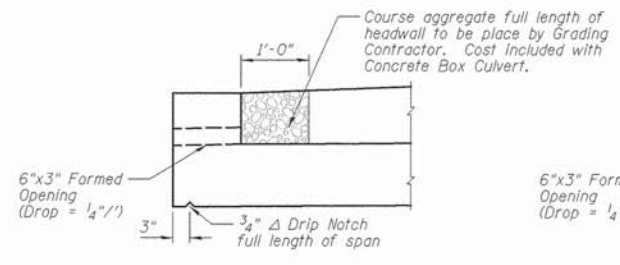
SECTION A-A



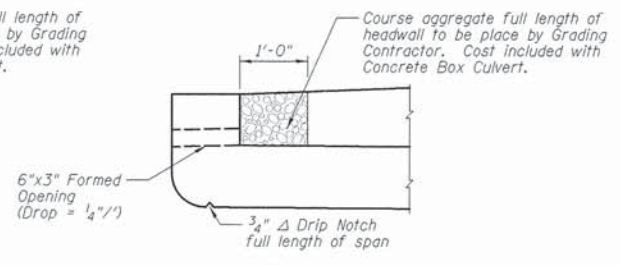
SECTION B-B



SECTION C-C

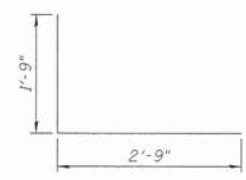


AT DOWNSTREAM END

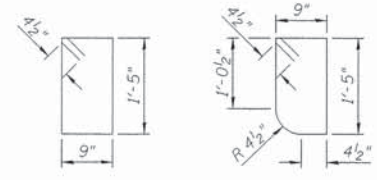


AT UPSTREAM END

DRAIN DETAILS



d(E) BAR



s(E) BAR

s1(E) BAR

BAR LIST

Bar	No.	Size	Length	Shape
d(E)	255	#5	33'-0"	—
a1(E)	6	#4	33'-0"	—
d(E)	64	#4	4'-6"	┌
h(E)	136	#4	39'-8"	—
h1(E)	8	#6	33'-0"	—
s(E)	33	#5	5'-1"	□
s1(E)	33	#5	4'-11"	□

NOTE:

For Total Bill of Material, see Sheet A2.

Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

DESIGNED - TCR
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DATE - 01/31/14

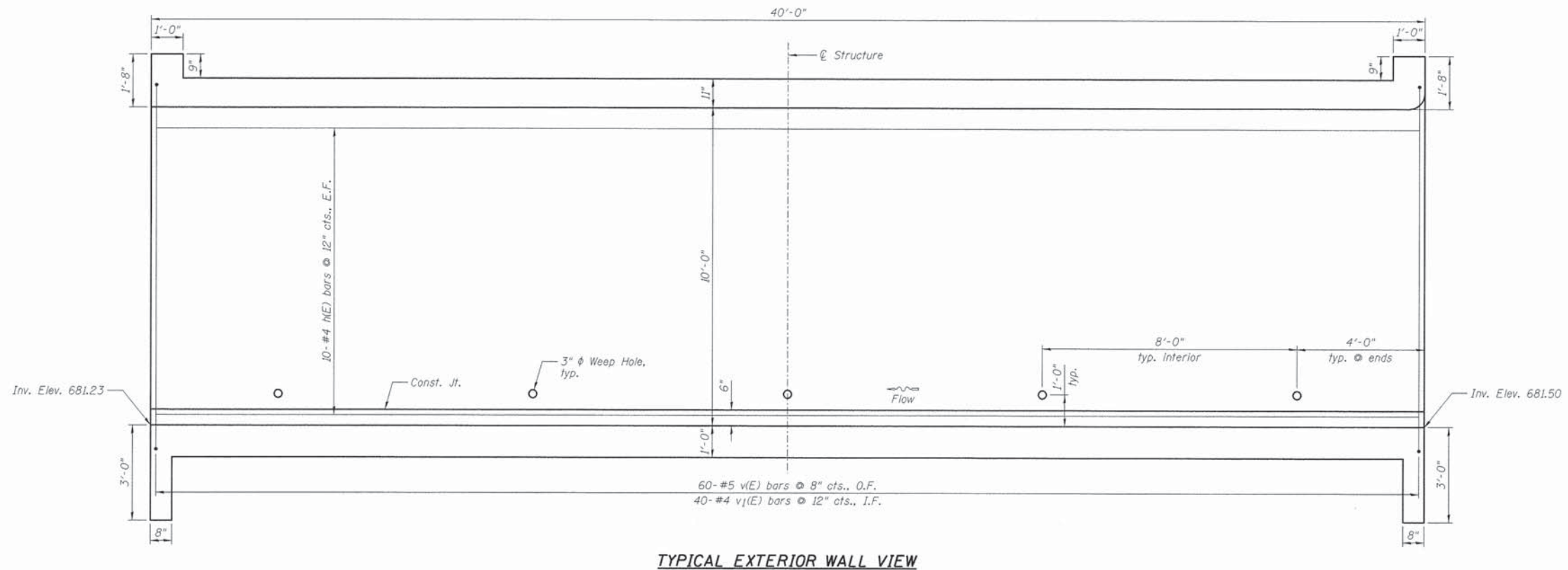
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REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

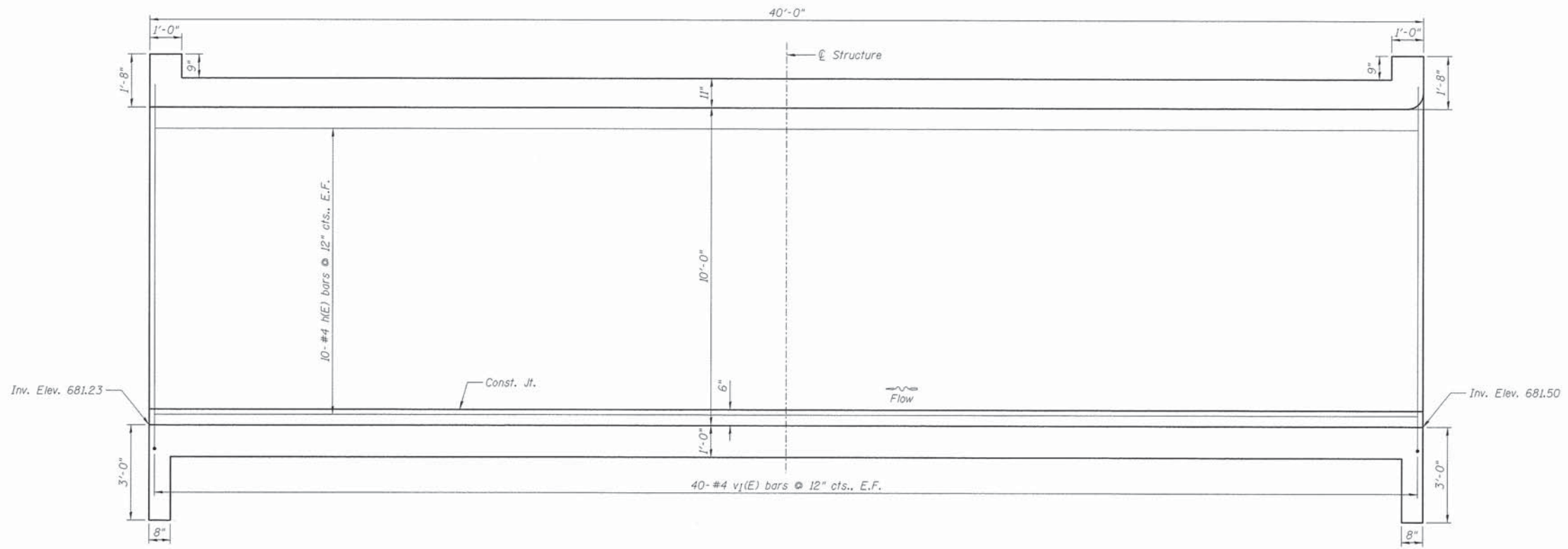
SLAB REINFORCEMENT AND DETAILS
STRUCTURE NO. 053-3321

SHEET NO. A3 OF 8 SHEETS

T.R. RTE. 195	SECTION 11-20115-03-BR	COUNTY LIVINGSTON	TOTAL SHEETS 34	SHEET NO. 13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 87502	



TYPICAL EXTERIOR WALL VIEW



TYPICAL INTERIOR WALL VIEW

BAR LIST

Bar	No.	Size	Length	Shape
h(E)	80	#4	39'-8"	—
v(E)	120	#5	18'-1"	┌
vj(E)	360	#4	12'-2"	┌



v(E) BAR



vj(E) BAR

NOTES:

- 1.) For Total Bill of Material, see Sheet A2.
- 2.) E.F. denotes Each Face, O.F. denotes Outside Face and I.F. denotes Inside Face.

Farnsworth GROUP, INC.
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309/663-8435, 309/663-1571 fax

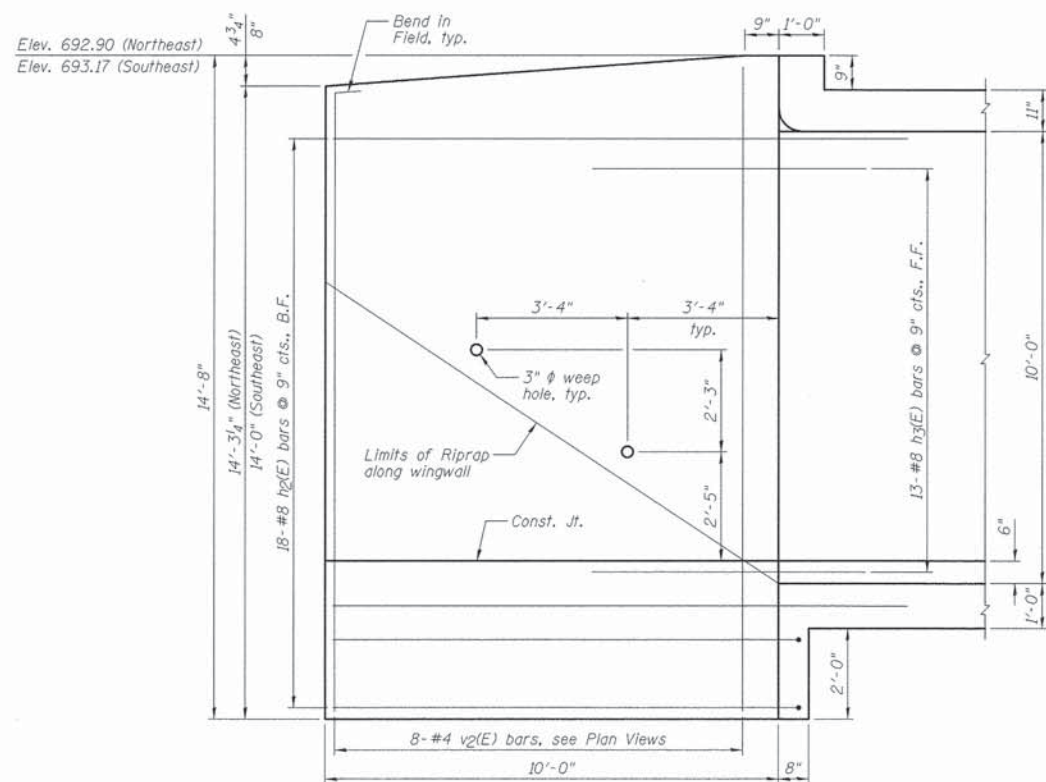
DESIGNED - TCR	REVISION
CHECKED - JML	REVISION
DRAWN - DJM	REVISION
CHECKED - MSW	REVISION
DATE - 01/31/14	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

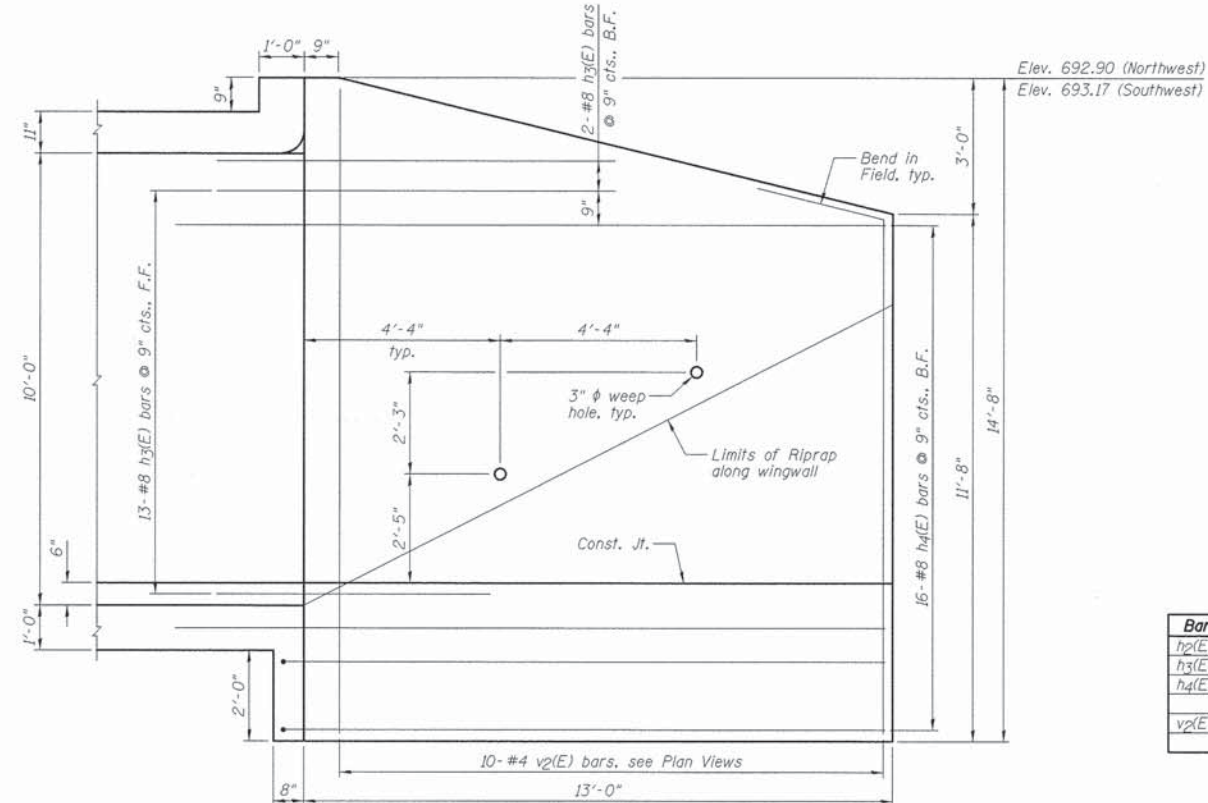
BARREL WALL ELEVATIONS
STRUCTURE NO. 053-3321

SHEET NO. A4 OF 8 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
195	11-20115-03-BR	LIVINGSTON	34	14
CONTRACT NO. 87502				
ILLINOIS FED. AID PROJECT				



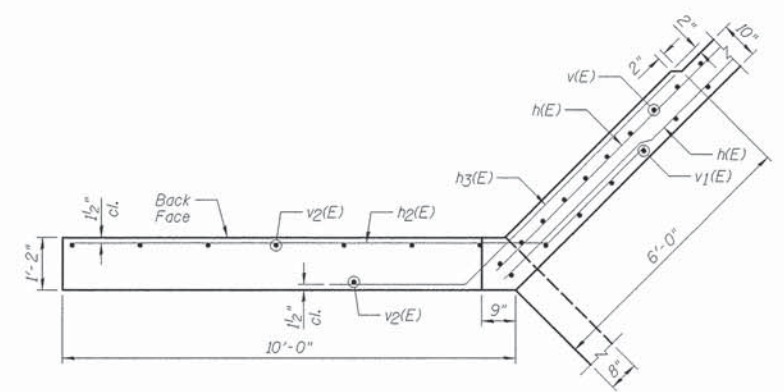
NORTHEAST AND SOUTHEAST WINGWALL ELEVATION



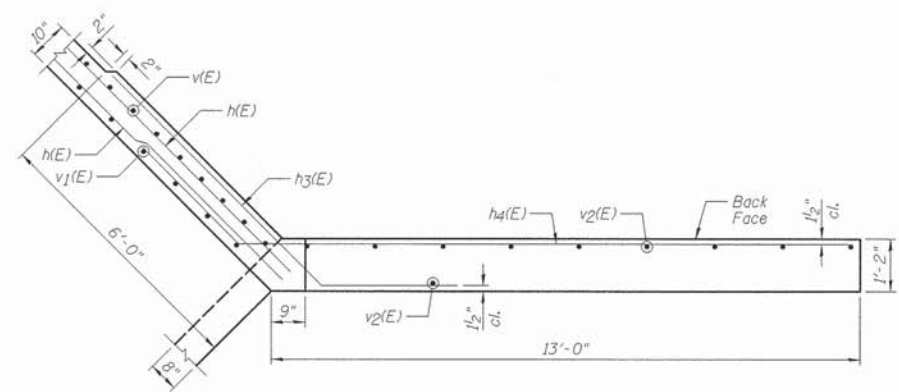
NORTHWEST AND SOUTHWEST WINGWALL ELEVATION

BAR LIST

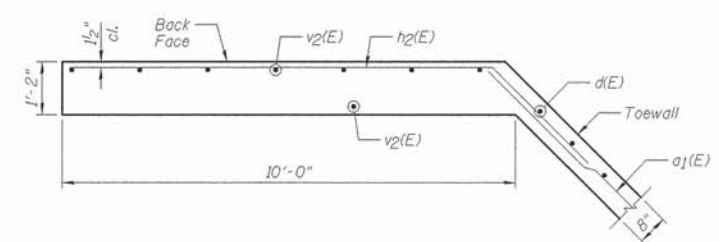
Bar	No.	Size	Length	Shape
h2(E)	36	#8	13'-7"	—
h3(E)	56	#8	10'-0"	—
h4(E)	32	#8	16'-7"	—
v2(E)	36	#4	14'-4"	—



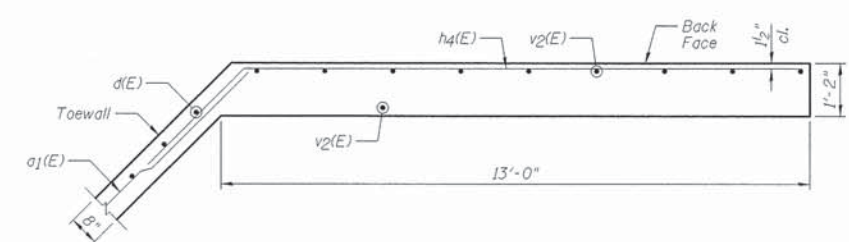
NORTHEAST AND SOUTHEAST WINGWALL UPPER PLAN



NORTHWEST AND SOUTHWEST WINGWALL UPPER PLAN



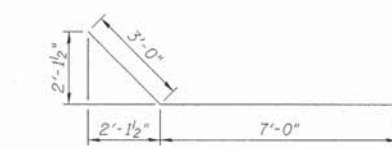
NORTHEAST AND SOUTHEAST WINGWALL LOWER PLAN



NORTHWEST AND SOUTHWEST WINGWALL LOWER PLAN



h2(E) BAR



h3(E) BAR



h4(E) BAR

NOTES:

- 1.) For Bill of Material, see Sheet A2.
- 2.) B.F. denotes Back Face and F.F. denotes Front Face.

Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8436, 309/663-1371 fax

DESIGNED - TCR	REVISIONS
CHECKED - JML	REVISIONS
DRAWN - DJM	REVISIONS
CHECKED - MSW	REVISIONS
DATE - 01/31/14	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

WINGWALL DETAILS STRUCTURE NO. 053-3321

SHEET NO. A5 OF 8 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
195	11-20115-03-BR	LIVINGSTON	34	15
CONTRACT NO. 87502			ILLINOIS FED. AID PROJECT	

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 1 of 2

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Farnsworth Group, Inc.
Project Name: Section 11-20115-03-BR Pike Rd. District
Project Site: No. 053-3321
Livingston County, IL.

Boring No. B-1
Surface Elev. 693.18
Auger Depth 35' Rotary Depth NA
Start Date 06/04/11 Finish Date 06/04/11

Location: 6' South of centerline of roadway and
24.5' east of center of existing bridge

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY		REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	
693.18											
692.18			1								
691.18			2								
690.18	Stiff Black And Brown Clay (Fill)		3	1	SS	1.1	5	B	17		
689.18			4								
688.18	Stiff Brown Clay		5	2	SS	1.3	6	B	19		
687.18			6								
686.18	Stiff Black Clay		7								
685.18			8	3	SS	1.2	6	B	24		
684.18	Stiff Brown Clay		9								
683.18			10	4	SS	1.6	7	B	18		
682.18			11								
681.18			12								
680.18			13	5	SS	2.4	13	B	17		
679.18			14								
678.18	Very Stiff Brownish Gray To Gray Silty Clay Till		15	6	SS	3.7	24	B	13		
677.18			16								
676.18			17								
675.18			18	7	SS	3.1	22	B	14		
674.18			19								
673.18			20	8	SS	4.5	33	B	12		

Groundwater Data: Static water level after auger removal - elevation 683.18.
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 2 of 2

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Farnsworth Group, Inc.
Project Name: Section 11-20115-03-BR Pike Rd. District
Project Site: No. 053-3321
Livingston County, IL.

Boring No. B-1
Surface Elev. 693.18
Auger Depth 35' Rotary Depth NA
Start Date 06/04/11 Finish Date 06/04/11

Location:

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY		REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	
672.18											
671.18	Stiff Gray Salty Clay Till		22								
670.18			23	9	SS	---	79	---	---		
669.18	Gray Limestone Fragments		24								
668.18			25								
667.18			26	10	SS	---	85	---	---		
666.18			27								
665.18			28								
664.18	Very Dense Pale Gray Limestone (Drilled With Rock Bit)		29								
663.18			30								
662.18			31								
661.18			32								
660.18			33								
659.18			34								
658.18	Bottom of Boring		35								
657.18			36								
656.18			37								
655.18			38								
654.18			39								
653.18			40								
652.18			41								

Groundwater Data: Static water level after auger removal - elevation 683.18.
Comments:



DESIGNED - TCR	REVISED
CHECKED - JML	REVISED
DRAWN - DJM	REVISED
CHECKED - MSW	REVISED

DATE - 01/31/14

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 053-3321

SHEET NO. A7 OF 8 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
195	11-20115-03-BR	LIVINGSTON	34	17
CONTRACT NO. 87502				

ILLINOIS FED. AID PROJECT

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 1 of 2

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Farnsworth Group, Inc.
Project Name: Section 11-20115-03-BR Pike Rd. District
Project Site: No. 053-3321
Livingston County, IL.

Boring No. B-2
Surface Elev. 693.01
Auger Depth 35' Rotary Depth NA
Start Date 06/04/11 Finish Date 06/04/11

Location: 5' North of centerline of roadway and
33.5' west of center of existing bridge

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY	REMARKS	
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear			Moisture (%)
693.01											
692.01	Stiff Black And Brown Clay (Fill)		1						Randy Safranski Diedrich D-120		
691.01			2								
690.01			3	1	SS	1.9	9	B			17
689.01	Stiff Black Clay		4								
688.01			5	2	SS	1.4	7	B	18		
687.01	Stiff Brown Clay		6								
686.01			7								
685.01			8	3	SS	1.7	8	B	20		
684.01			9								
683.01			10	4	SS	1.8	9	B	18		
682.01	Very Stiff Brownish Gray To Gray Silty Clay Till		11								
681.01			12								
680.01			13	5	SS	2.5	16	B	16		
679.01			14								
678.01			15	6	SS	2.5	19	B	16		
677.01			16								
676.01			17								
675.01			18	7	SS	3.3	23	B	15		
674.01		19									
673.01		20	8	SS	3.8	26	B	14			

Groundwater Data: Static water level after auger removal - elevation 683.01.
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 2 of 2

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Farnsworth Group, Inc.
Project Name: Section 11-20115-03-BR Pike Rd. District
Project Site: No. 053-3321
Livingston County, IL.

Boring No. B-2
Surface Elev. 693.01
Auger Depth 35' Rotary Depth NA
Start Date 06/04/11 Finish Date 06/04/11

Location: 5' North of centerline of roadway and
33.5' west of center of existing bridge

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear		
672.01	Very Stiff Gray Silty Clay Till		22							
671.01	Very Dense Pale Gray Limestone Fragments		23	9	SS	---	57	---	---	
670.01			24							
669.01	Very Dense Pale Gray Limestone (Drilled With Rock Bit)		25	10	SS	---	100	1"	---	
668.01			26							
667.01			27							
666.01		28								
665.01		29								
664.01		30								
663.01		31								
662.01		32								
661.01		33								
660.01		34								
659.01		35								
658.01	Bottom of Boring		36							
657.01			37							
656.01			38							
655.01			39							
654.01			40							
653.01			41							
652.01										

Groundwater Data: Static water level after auger removal - elevation 683.01.
Comments:



DESIGNED - TCR	REVISED
CHECKED - JML	REVISED
DRAWN - DJM	REVISED
CHECKED - MSW	REVISED

DATE - 01/31/14

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 053-3321
SHEET NO. A8 OF 8 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
195	11-20115-03-BR	LIVINGSTON	34	18
CONTRACT NO. 87502				
ILLINOIS FED. AID PROJECT				

Benchmarks: BM #501 Cotton Picker Spindle set in East face of 2nd power pole on West side of 900E, ±360' North of 1100N, Station 90+27.68/29.24' LT., Elevation 691.21.
 BM #889 Cotton Picker Spindle set in South face of 2nd power pole on North side of 1100N, ±250' West of 900E, Station 23+68.63/21.75' LT., Elevation 692.23.

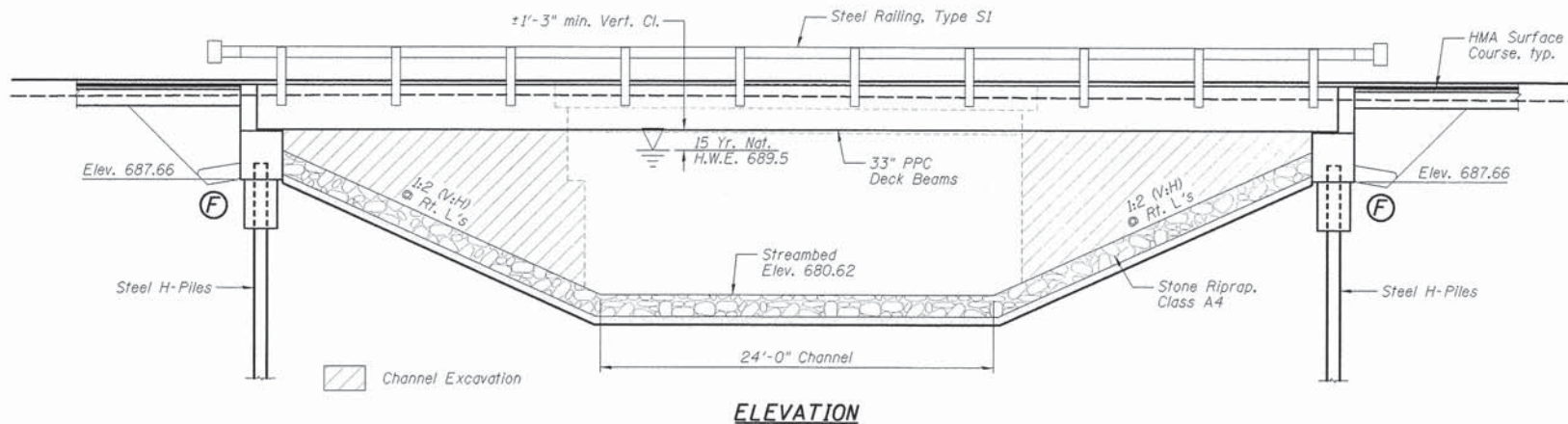
Existing Structure: S.N. 053-3168 was originally constructed in 1960. The structure consists of a single span steel beam superstructure with closed concrete abutments. The back to back abutment dimension measures ±30'-0" and the width measures ±26'-0". The structure is to be replaced during road closure.

No Salvage.

WATERWAY INFORMATION

Drainage Area = 8.1 Sq. Mi.		Existing Low Grade Elev. 692.66 @ Sta. 90+00.00		Proposed Low Grade Elev. 693.31 @ Sta. 87+50.00	
Flood Yr.	Freq. Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
Design	15 720	247 481	689.5	0.1 0.1	689.6 689.5
Base	100 1120	247 481	690.1	0.4 0.2	690.4 690.2
Overtopping Max. Calc.					

10 Yr. Velocity = 1.65 ft/sec. (Proposed)
 10 Yr. Velocity = 3.01 ft/sec. (Existing)



ELEVATION

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, Customary U.S. Units, 6th Edition

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi (Cast-In-Place Concrete)
 $f_y = 60,000$ psi (Reinforcement)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_ci = 5,000$ psi
 $f_{pu} = 270,000$ psi ($\frac{1}{2}$ " ϕ low relaxation strands)
 $f_{pbt} = 201,960$ psi ($\frac{1}{2}$ " ϕ low relaxation strands)

LOADING HL-93

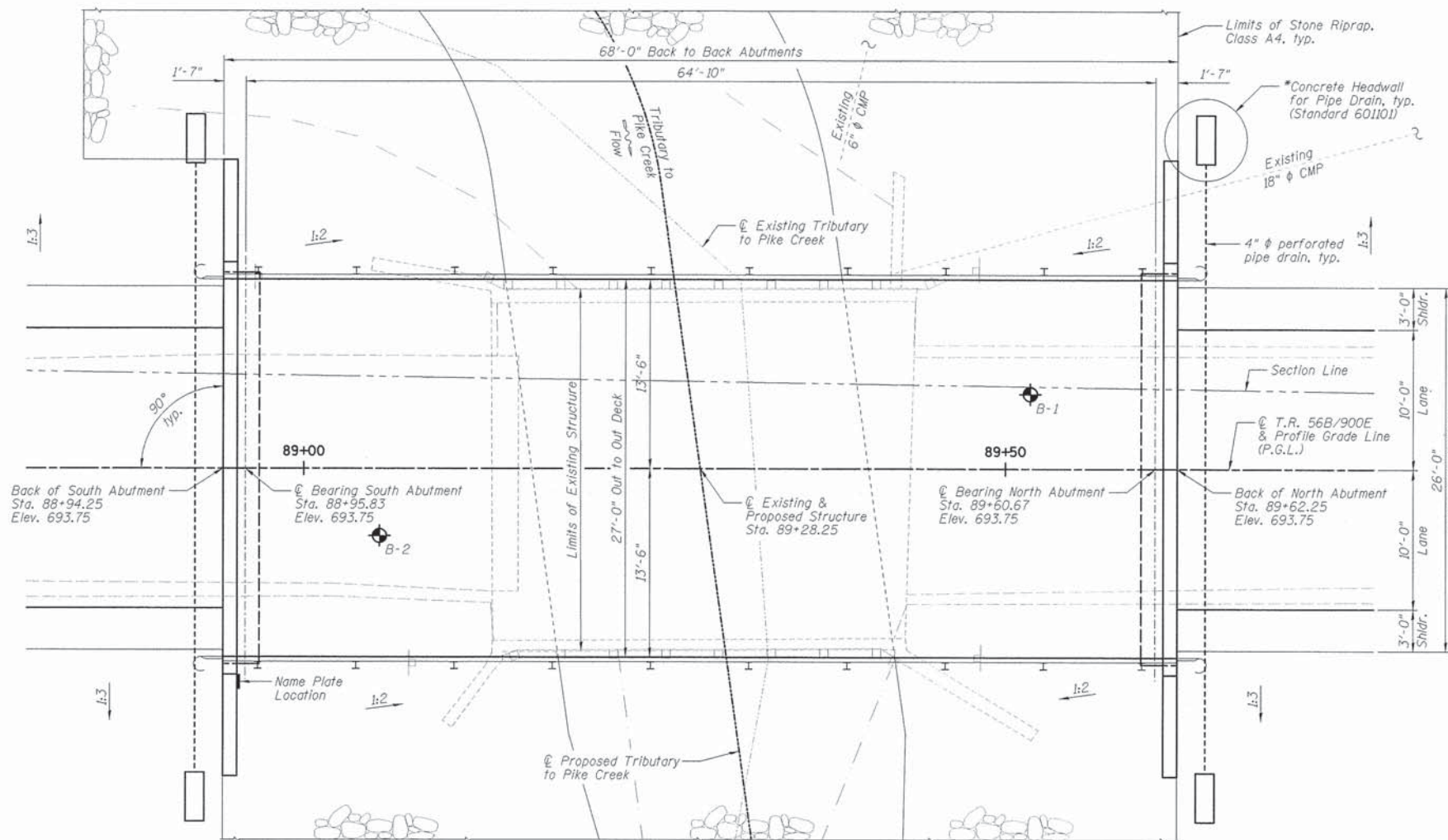
Allow 25#-sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.112g
 Design Spectral Acceleration at 0.2 sec. (SDs) = 0.181g
 Soil Site Class = D

INDEX OF SHEETS

SHEET NO.	TITLE
B1	GENERAL PLAN AND ELEVATION
B2	GENERAL DATA
B3	33" x 36" PPC DECK BEAM
B4	33" x 36" PPC DECK BEAM DETAILS
B5	STEEL RAILING, TYPE S1
B6	ABUTMENTS
B7	HP PILE DETAILS
B8-B9	SOIL BORING LOGS



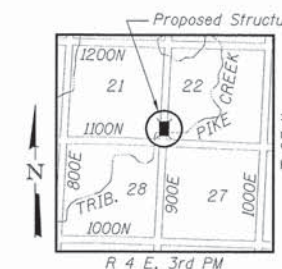
PLAN

* Included in cost of Pipe Underdrains for Structures.

I certify that to the best of my knowledge, this bridge 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.



Joseph M. Lowrance Date 01-31-14
 JOSEPH M. LOWRANCE
 ILLINOIS STRUCTURAL ENGINEER
 NO. 081-006446
 Exp. Date 11/30/14



LOCATION SKETCH

T.R. 56B OVER TRIBUTARY TO PIKE CREEK
SECTION 11-20115-03-BR
LIVINGSTON COUNTY
STA. 89+28.25

Farnsworth GROUP, INC.
 2709 McGraw Drive
 Bloomington, Illinois 61704
 309/663-9435, 309/663-1071 fax

DESIGNED - TCR
 CHECKED - JML
 DRAWN - DJM
 DATE - 01/31/14

REVISOR
 REVISION
 REVISION
 REVISION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 053-4206

SHEET NO. B1 OF 9 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56B	11-20115-03-BR	LIVINGSTON	34	19
CONTRACT NO. 87502				

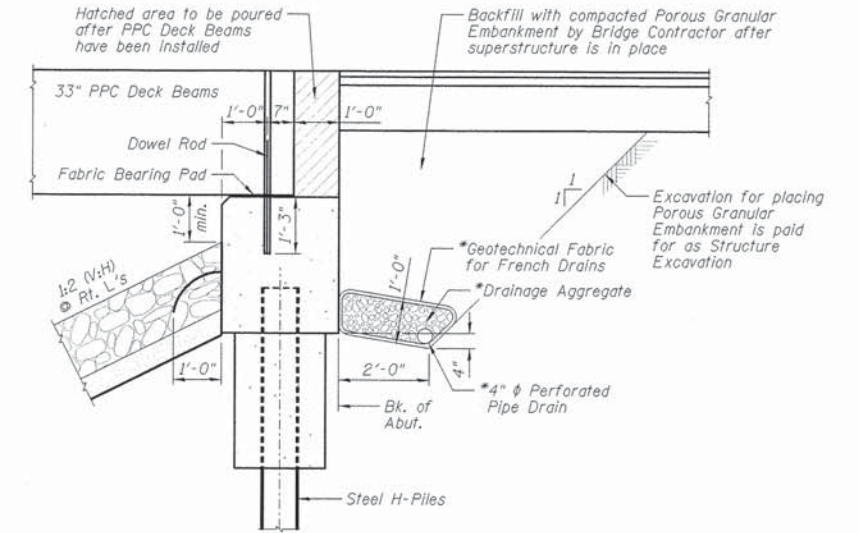
ILLINOIS FED. AID PROJECT

TOTAL BILL OF MATERIAL

ITEMS	UNITS	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		1,010	1,010
Porous Granular Embankment	Ton		109	109
Stone Riprap, Class A4	Sq. Yd.		787	787
Filter Fabric	Sq. Yd.		787	787
Removal of Existing Structures No. 2	Each	1		1
Structure Excavation	Cu. Yd.		53	53
Concrete Structures	Cu. Yd.		28.4	28.4
Concrete Encasement	Cu. Yd.		3.6	3.6
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	1,782		1,782
Reinforcement Bars, Epoxy Coated	Pound		3,850	3,850
Steel Railing, Type S1	Foot	136		136
Furnishing Steel Piles HP10x42	Foot		148	148
Driving Piles	Foot		148	148
Test Pile Steel HP10x42	Each		1	1
Name Plates	Each		1	1
Pipe Underdrains For Structures 4"	Foot		128	128

GENERAL NOTES:

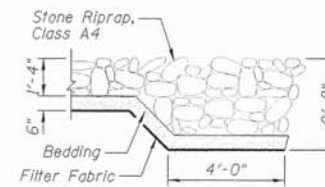
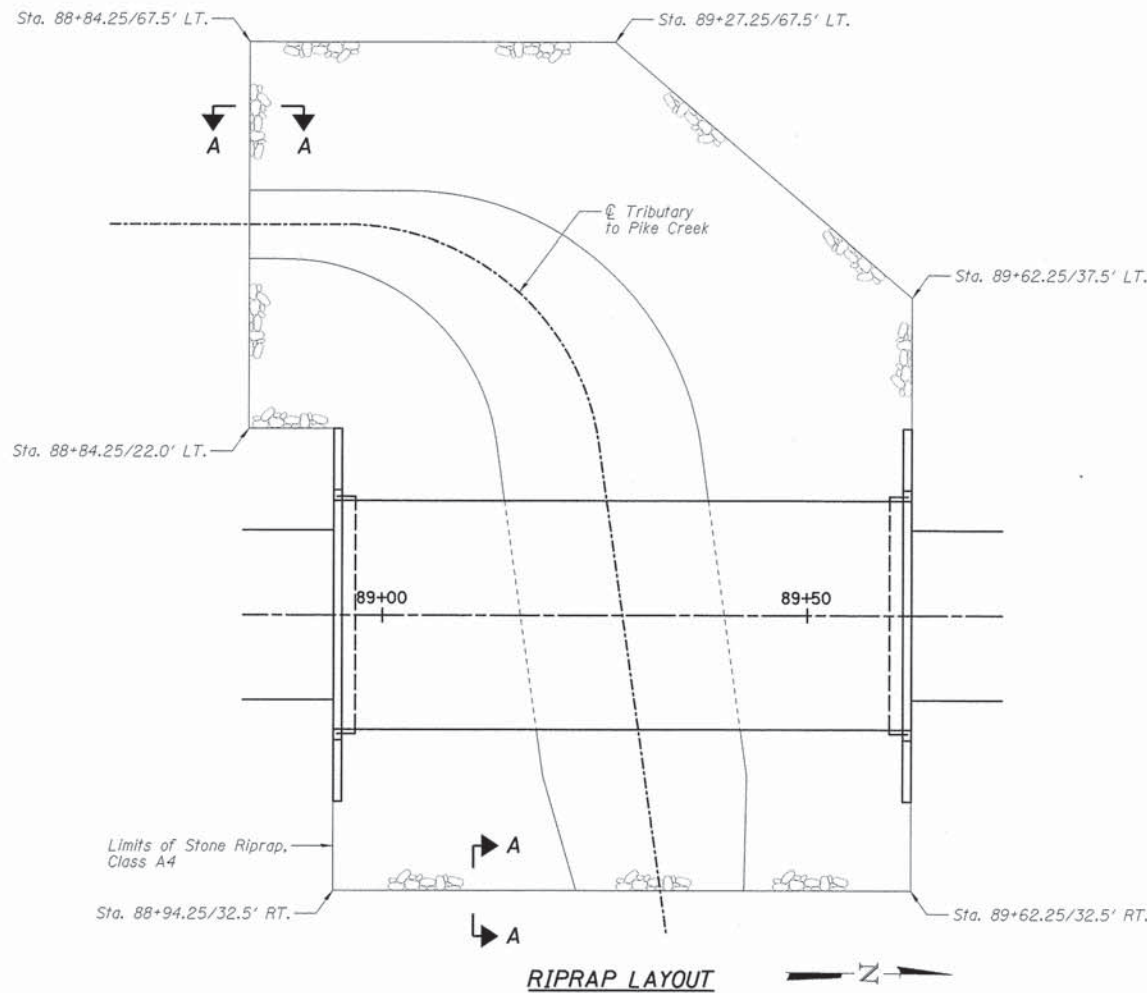
- 1.) Reinforcement bars designated (E) shall be epoxy coated.
- 2.) Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 3.) The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- 4.) Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.



SECTION THRU NORTH ABUTMENT
(Similar for South Abutment)

NOTES:

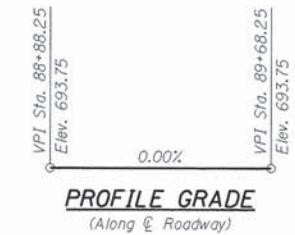
- 1.) *Included in cost of Pipe Underdrains for Structures.
- 2.) All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



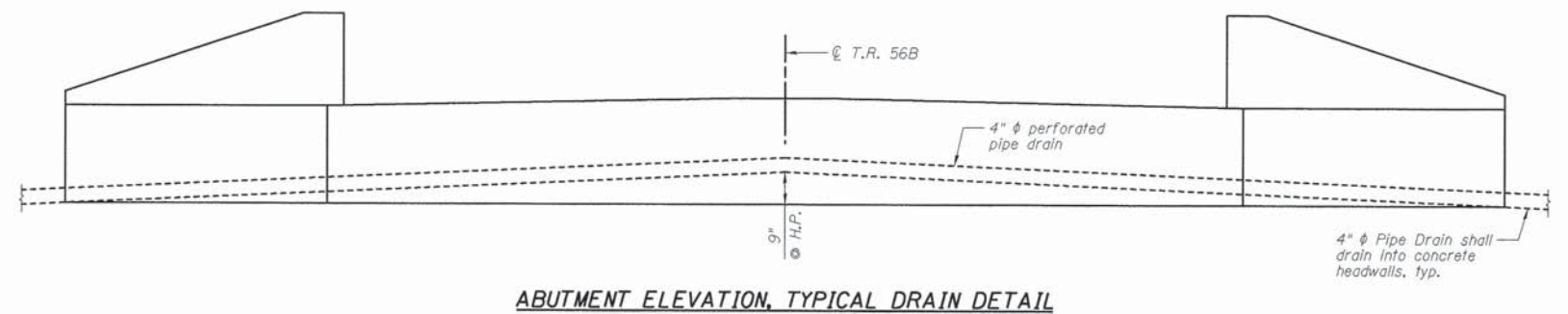
SECTION A-A

TRIBUTARY TO PIKE CREEK
BUILT 20... BY
LIVINGSTON COUNTY
SECTION 11-20115-03-BR
STATION 89+28.25
STR. NO. 053-4206 LOADING HL-93

NAME PLATE
See Standard 515001



PROFILE GRADE
(Along E Roadway)



ABUTMENT ELEVATION, TYPICAL DRAIN DETAIL

Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

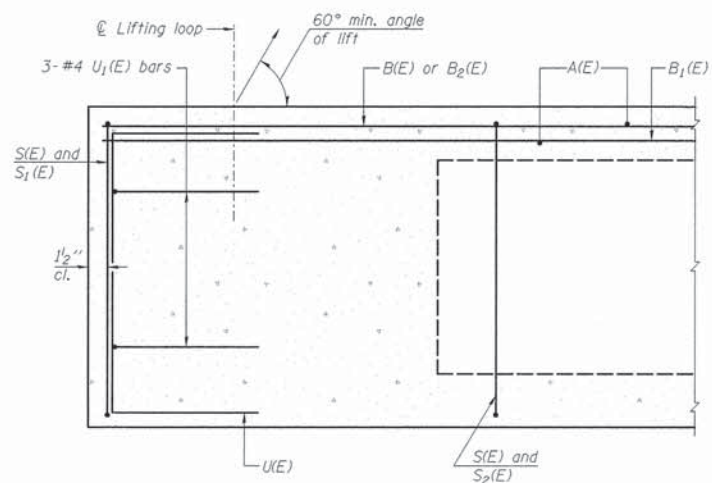
DESIGNED - TCR	REVISED
CHECKED - JML	REVISED
DRAWN - DJM	REVISED
CHECKED - MSW	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

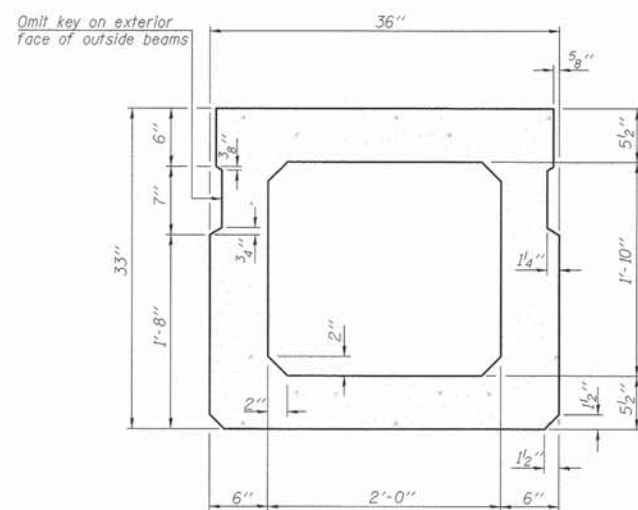
**GENERAL DATA
STRUCTURE NO. 053-4206**

SHEET NO. B2 OF 9 SHEETS

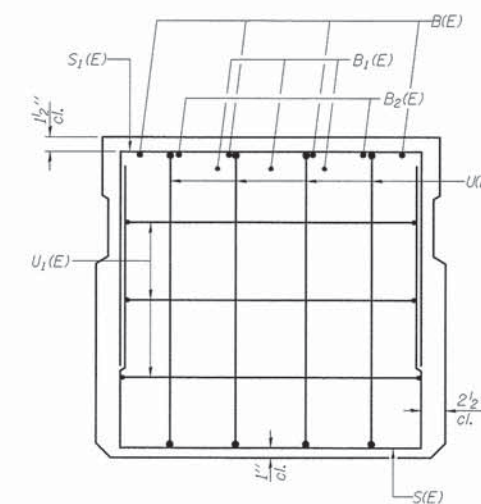
T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56B	11-20115-03-BR	LIVINGSTON	34	20
CONTRACT NO. 87502			ILLINOIS FED. AID PROJECT	



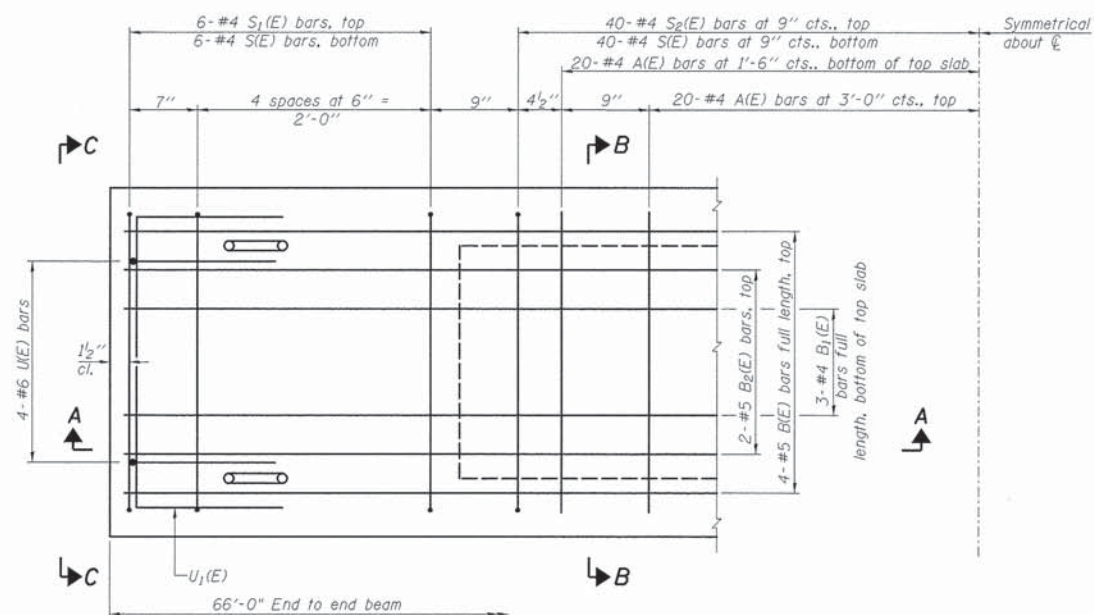
SECTION A-A



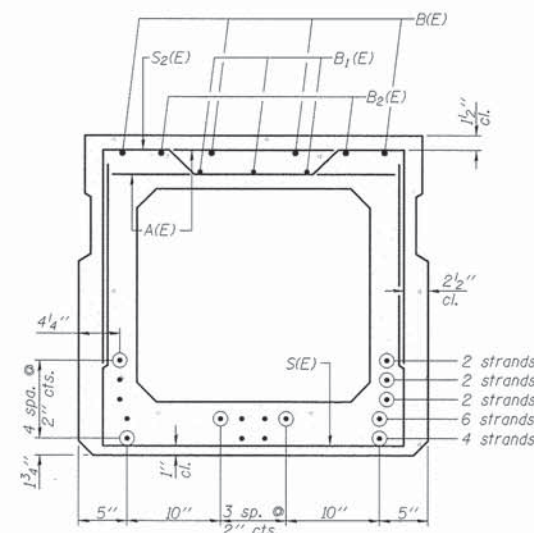
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B

(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.

Note: Spacing of S(E) and S2(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.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	60	#4	2'-7"	—
B(E)	8	#5	34'-2"	—
B1(E)	9	#4	23'-3"	—
B2(E)	4	#5	10'-0"	—
S(E)	92	#4	7'-5"	—
S1(E)	12	#4	6'-3"	—
S2(E)	80	#4	6'-6"	—
U1(E)	8	#6	5'-0"	—
U2(E)	6	#4	5'-0"	—

Note: See Sheet B4 for additional details and Bill of Material.

MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

PD-3336-0

7-1-10

Farnsworth
GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

DATE - 01/31/14

DESIGNED - TCR
CHECKED - JML
DRAWN - DJM
CHECKED - MSW

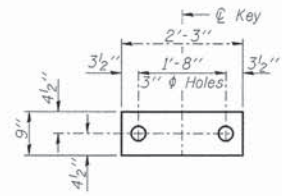
REVISED
REVISED
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

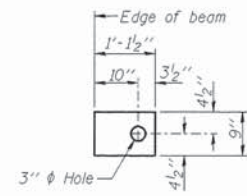
33" x 36" PPC DECK BEAM
STRUCTURE NO. 053-4206

SHEET NO. B3 OF 9 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56B	11-20115-03-BR	LIVINGSTON	34	21
CONTRACT NO. 87502				
ILLINOIS FED. AID PROJECT				



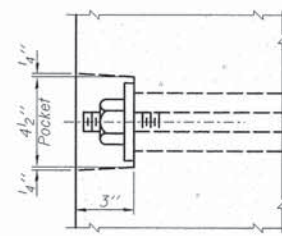
FABRIC BEARING PAD
(Interior)



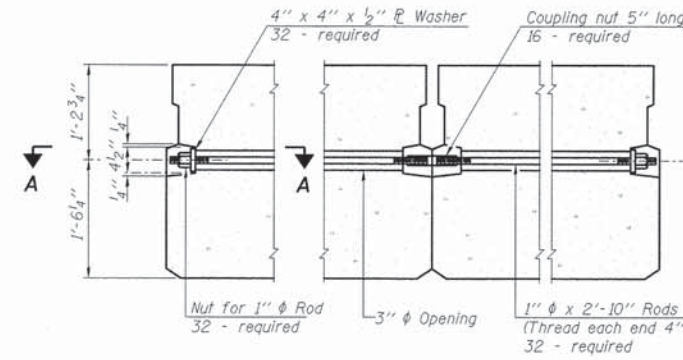
FABRIC BEARING PAD
(Exterior)

FIXED

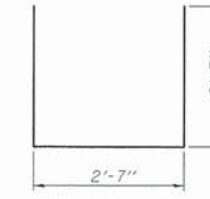
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



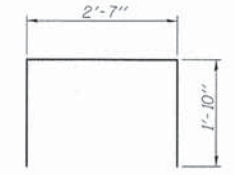
SECTION A-A



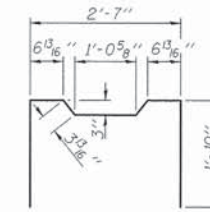
TYPICAL TRANSVERSE TIE ASSEMBLY



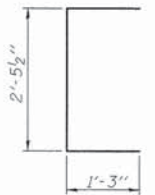
BAR S1(E)



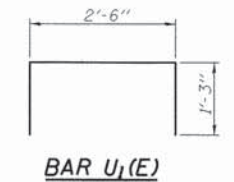
BAR S1(E)



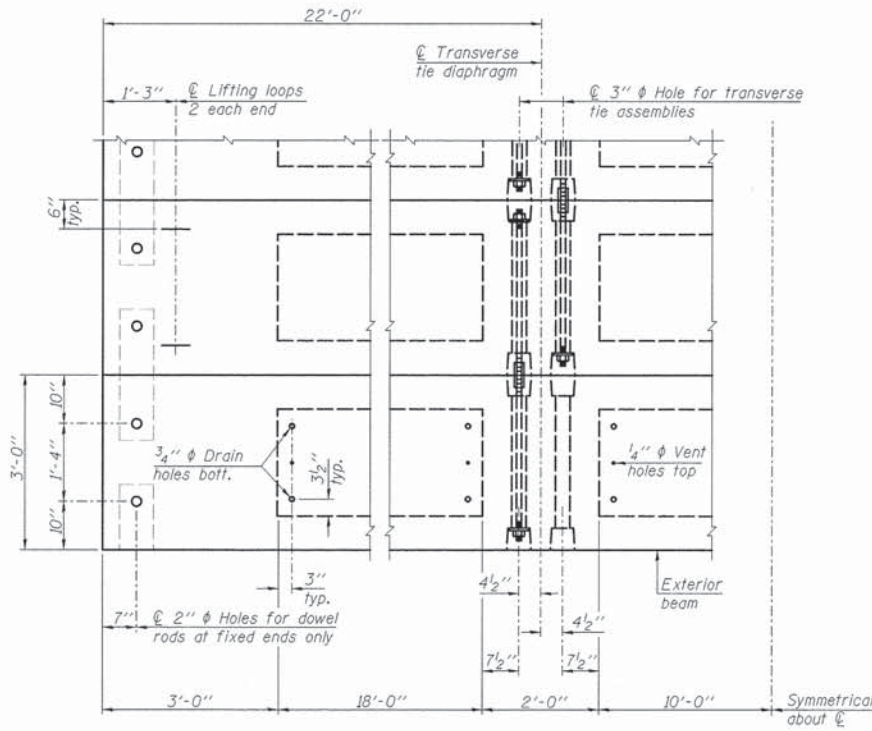
BAR S2(E)



BAR UE(E)

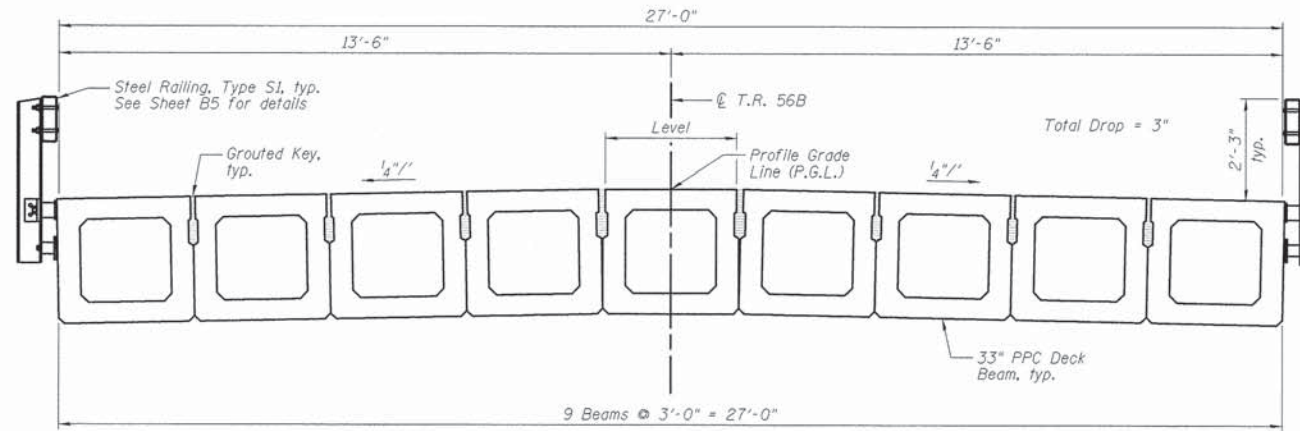


BAR U1(E)

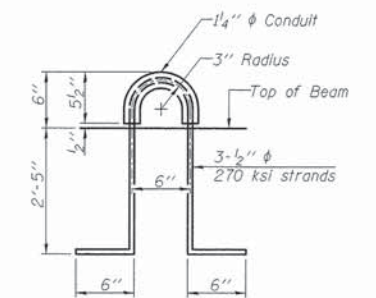


PLAN VIEW

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



CROSS SECTION
(Looking North @ ϕ of Bridge)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" ϕ 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 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" ϕ 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, $f'cl$, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	1,782
---	---------	-------

PD-3336-0D 7-1-10

Farnsworth GROUP, INC.
2709 McCraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

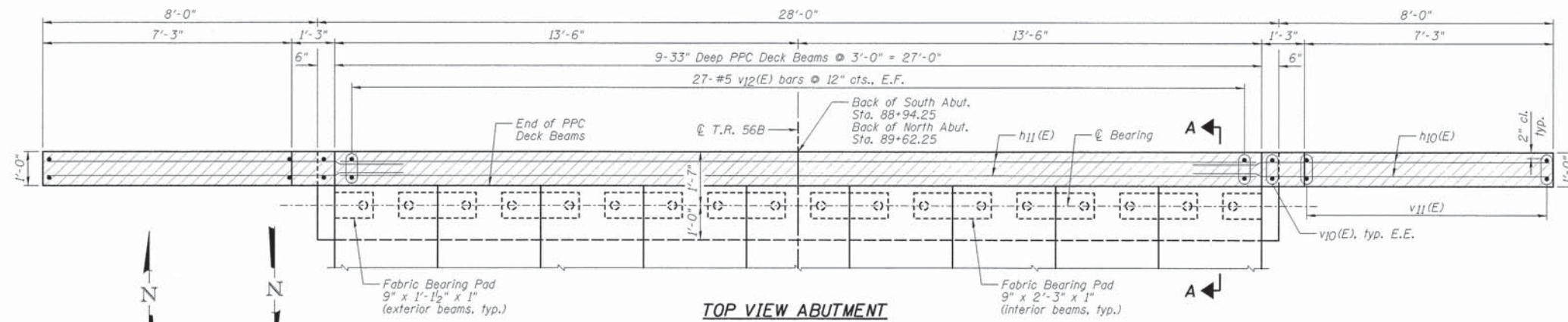
DESIGNED - TCR	REVISOR
CHECKED - JML	REVISOR
DRAWN - DJM	REVISOR
CHECKED - MSW	REVISOR
DATE - 01/31/14	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

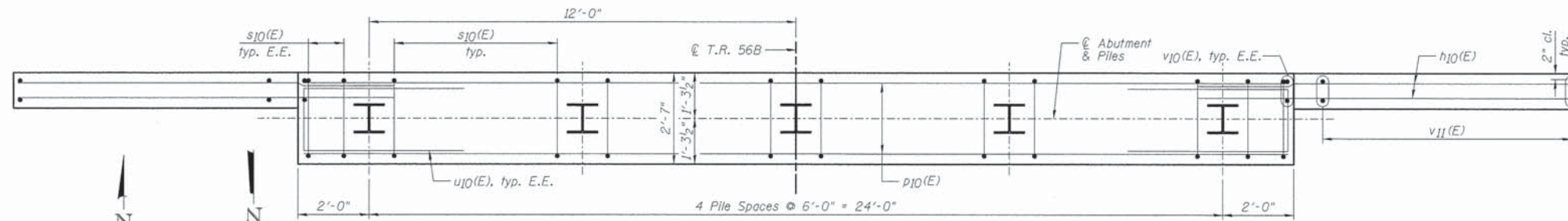
33" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 053-4206

SHEET NO. B4 OF 9 SHEETS

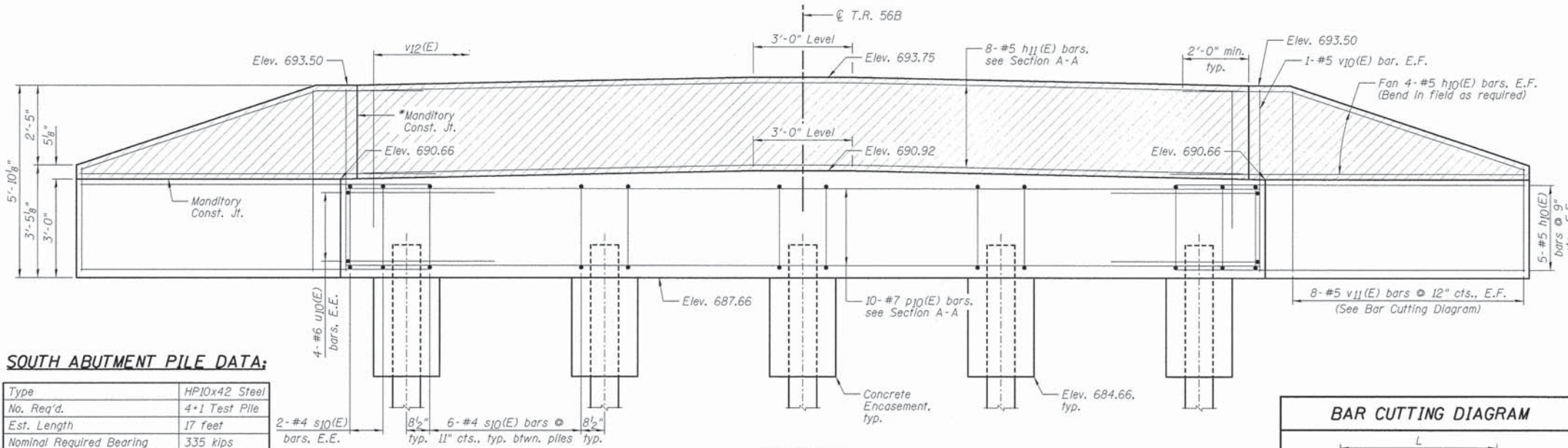
T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56B	11-20115-03-BR	LIVINGSTON	34	22
CONTRACT NO. 87502			ILLINOIS FED. AID PROJECT	



NORTH ABUTMENT SOUTH ABUTMENT



NORTH ABUTMENT SOUTH ABUTMENT

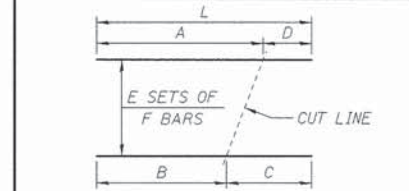


ELEVATION
*Cast top of wingwall flush with exterior beam face after beams have been erected.

LEGEND

Hatched area to be poured after PPC Deck Beams have been installed

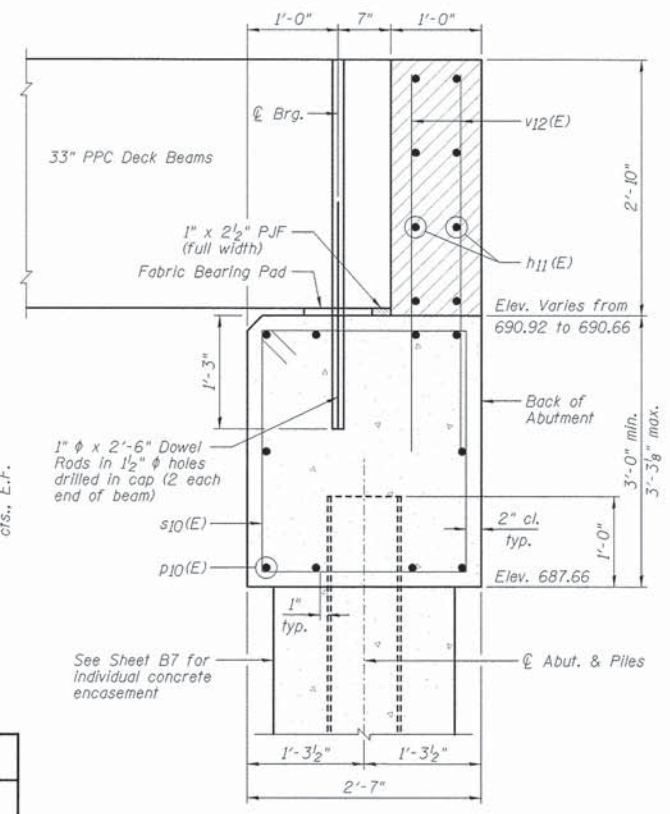
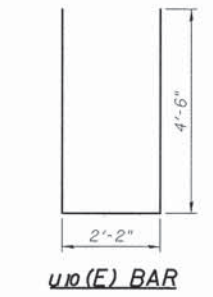
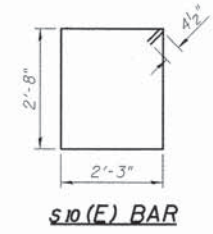
BAR CUTTING DIAGRAM



BAR	A	B	C	D	E	F	L
v11(E)	5'-6"	3'-2"	5'-6"	3'-2"	4	8	8'-8"

**TWO ABUTMENTS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h10(E)	72	#5	10'-9"	—
h11(E)	16	#5	26'-8"	—
p10(E)	20	#7	27'-8"	—
s10(E)	56	#4	10'-7"	□
u10(E)	16	#6	11'-2"	□
v10(E)	8	#5	5'-6"	—
v11(E)	32	#5	8'-8"	—
v12(E)	108	#5	4'-2"	—
Item	Unit	Quantity		
Porous Granular Embankment	Ton	109		
Concrete Structures	Cu. Yd.	28.4		
Concrete Encasement	Cu. Yd.	3.6		
Reinforcement Bars, Epoxy Coated	Pound	3,850		
Furnishing Steel Piles HP10x42	Foot	148		
Driving Piles	Foot	148		
Test Pile Steel HP10x42	Each	1		
Pipe Underdrains For Structures 4"	Foot	128		



NOTES:

- 1.) E.E. denotes Each End & E.F. denotes Each Face.
- 2.) Order v11(E) bars full length. Cut according to Bar Cutting Diagram. Use remainder of v11(E) bars in opposite face of wingwall.

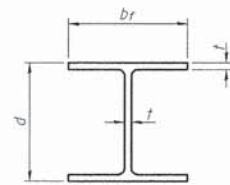
Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1371 fax

DESIGNED - TCR	REVISION
CHECKED - JML	REVISION
DRAWN - DJM	REVISION
CHECKED - MSW	REVISION

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

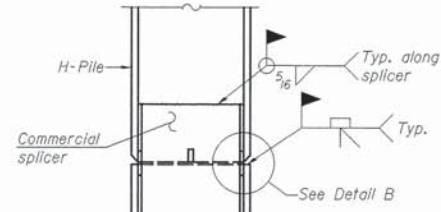
**ABUTMENTS
STRUCTURE NO. 053-4206**
SHEET NO. 86 OF 9 SHEETS

T.R. RTE. 56B	SECTION 11-20115-03-BR	COUNTY LIVINGSTON	TOTAL SHEETS 34	SHEET NO. 24
CONTRACT NO. 87502			ILLINOIS FED. AID PROJECT	

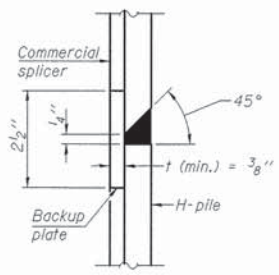


STEEL PILE TABLE

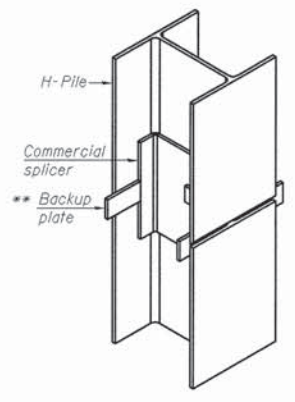
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 5/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



ELEVATION

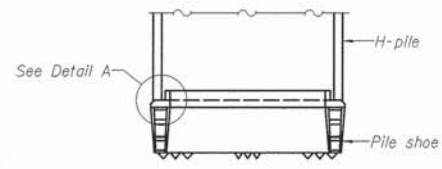


DETAIL "B"

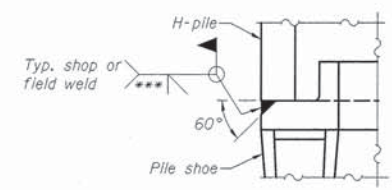


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

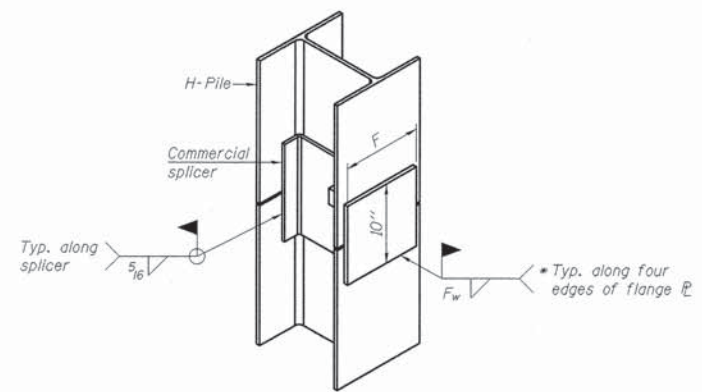


ELEVATION



DETAIL A

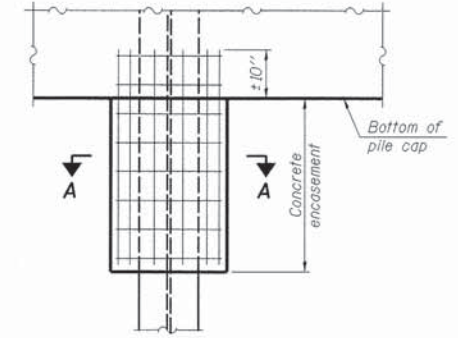
H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

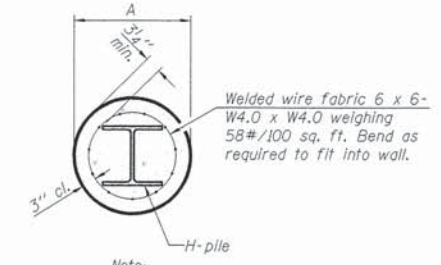
WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



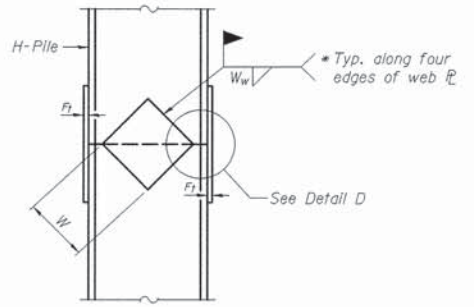
ELEVATION

PILE ENCASEMENT

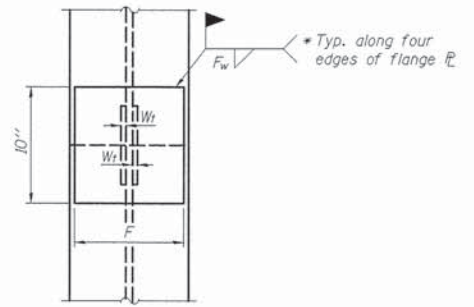


SECTION A-A

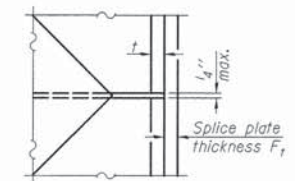
Note: Forms for encasement may be omitted when soil conditions permit.



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
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"

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

F-HP

1-27-12

Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1574 fax

DESIGNED - TCR
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DATE - 01/31/14

REVISIONS
REVISOR
DATE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS STRUCTURE NO. 053-4206

SHEET NO. 87 OF 9 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56B	11-20115-03-BR	LIVINGSTON	34	25
CONTRACT NO. 87502				

ILLINOIS FED. AID PROJECT

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 1 of 2

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Farnsworth Group, Inc.
Project Name: Section 11-20115-03-BR Pike Rd. District
Project Site: No. 053-3168
Livingston County, IL.

Boring No. B-1
Surface Elev. 692.57
Auger Depth 30' Rotary Depth NA
Start Date 06/03/11 Finish Date 06/03/11

Location: 6' West of centerline of roadway and
25' north of center of existing bridge

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	DRILLED BY	
									Randy Safranski	Diedrich D-120
692.57										REMARKS
691.57	Stiff Black And Brown Clay (Fill)									
689.57		1	SS	1.4	8	B	20			
688.57	Stiff Black Clay									
686.57		2	SS	1.6	10	B	22			
685.57	Very Stiff Brown Clay									
684.57		3	SS	2.1	12	B	18			
683.57	Very Stiff Brownish Gray To Gray Silty Clay Till									
682.57		4	SS	2.5	12	B	16			
681.57										
680.57		5	SS	2.4	13	B	15			
679.57	Very Stiff Brownish Gray To Gray Silty Clay Till									
677.57		6	SS	3.3	19	B	13			
676.57	Very Stiff Brownish Gray To Gray Silty Clay Till									
675.57		7	SS	3.1	17	B	13			
674.57	Very Dense Pale Gray Limestone (Drilled With Rock Bit)									
673.57		8	SS	---	100	1*	---			

Groundwater Data: Static water level after auger removal - elevation 683.07
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 2 of 2

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Farnsworth Group, Inc.
Project Name: Section 11-20115-03-BR Pike Rd. District
Project Site: No. 053-3168
Livingston County, IL.

Boring No. B-1
Surface Elev. 692.57
Auger Depth 30' Rotary Depth NA
Start Date 06/03/11 Finish Date 06/03/11

Location: 6' West of centerline of roadway and
25' north of center of existing bridge

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	DRILLED BY	
									Randy Safranski	Diedrich D-120
671.57										REMARKS
670.57	Very Dense Pale Gray Limestone (Drilled With Rock Bit)									
669.57										
668.57										
667.57										
666.57										
665.57										
664.57										
663.57										
662.57										
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656.57										
655.57										
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652.57										
651.57										

Groundwater Data: Static water level after auger removal - elevation 683.07
Comments:



DESIGNED - TCR	REVISED
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DRAWN - DJM	REVISED
CHECKED - MSW	REVISED

DATE - 01/31/14

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 053-4206

SHEET NO. 08 OF 9 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56B	11-20115-03-BR	LIVINGSTON	34	26
CONTRACT NO. 87502				
ILLINOIS FED. AID PROJECT				

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 1 of 2

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Farnsworth Group, Inc.
Project Name: Section 11-20115-03-BR Pike Rd. District
Project Site: No. 053-3168
Livingston County, IL.

Boring No. B-2
Surface Elev. 692.69
Auger Depth 30' Rotary Depth NA
Start Date 06/03/11 Finish Date 06/03/11

Location: 6' East of centerline of roadway and
25' south of center of existing bridge

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY		
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS	
692.69												
691.69			1									
690.69	Stiff Black And Brown Clay (Fill)		2									
689.69			3	1	SS	1.1	6	B	16			
688.69			4									
687.69	Stiff Black Clay		5									
686.69			6	2	SS	1.5	8	B	21			
685.69			7									
684.69	Very Stiff Brownish Gray Clay		8									
683.69			9									
682.69			10									
681.69			11	4	SS	2.2	12	B	16			
680.69			12									
679.69	Very Stiff Brownish Gray To Gray Silty Clay Till		13									
678.69			14									
677.69			15	5	SS	2.6	14	B	15			
676.69			16									
675.69			17									
674.69			18	6	SS	3.1	21	B	14			
673.69			19									
672.69	Very Dense Pale Gray Limestone (Drilled With Rock Bit)		20	7	SS	3.1	20	B	14			
				8	SS	---	100	1"	---			

Groundwater Data: Static water level after auger removal - elevation 683.19.
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 2 of 2

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Farnsworth Group, Inc.
Project Name: Section 11-20115-03-BR Pike Rd. District
Project Site: No. 053-3168

Boring No. B-2
Surface Elev. 692.69
Auger Depth 30' Rotary Depth NA
Start Date 06/03/11 Finish Date 06/03/11

Location: 6' East of centerline of roadway and
25' south of center of existing bridge

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
692.69											
691.69			22								
690.69			23	9	SS						
689.69			24								
688.69			25								
687.69	Very Dense Pale Gray Limestone (Drilled With Rock Bit)		26	10	SS						
686.69			27								
685.69			28								
684.69			29	11	SS						
683.69			30								
682.69			31	12	SS						
681.69			32								
680.69			33	13	SS						
679.69			34								
678.69			35								
677.69			36	14	SS						
676.69			37								
675.69			38	15	SS						
674.69			39								
673.69			40								
672.69			41	16	SS						

Groundwater Data: Static water level after auger removal - elevation 683.19.
Comments:



DESIGNED - TCR
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DATE - 01/31/14

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REVISED
REVISED

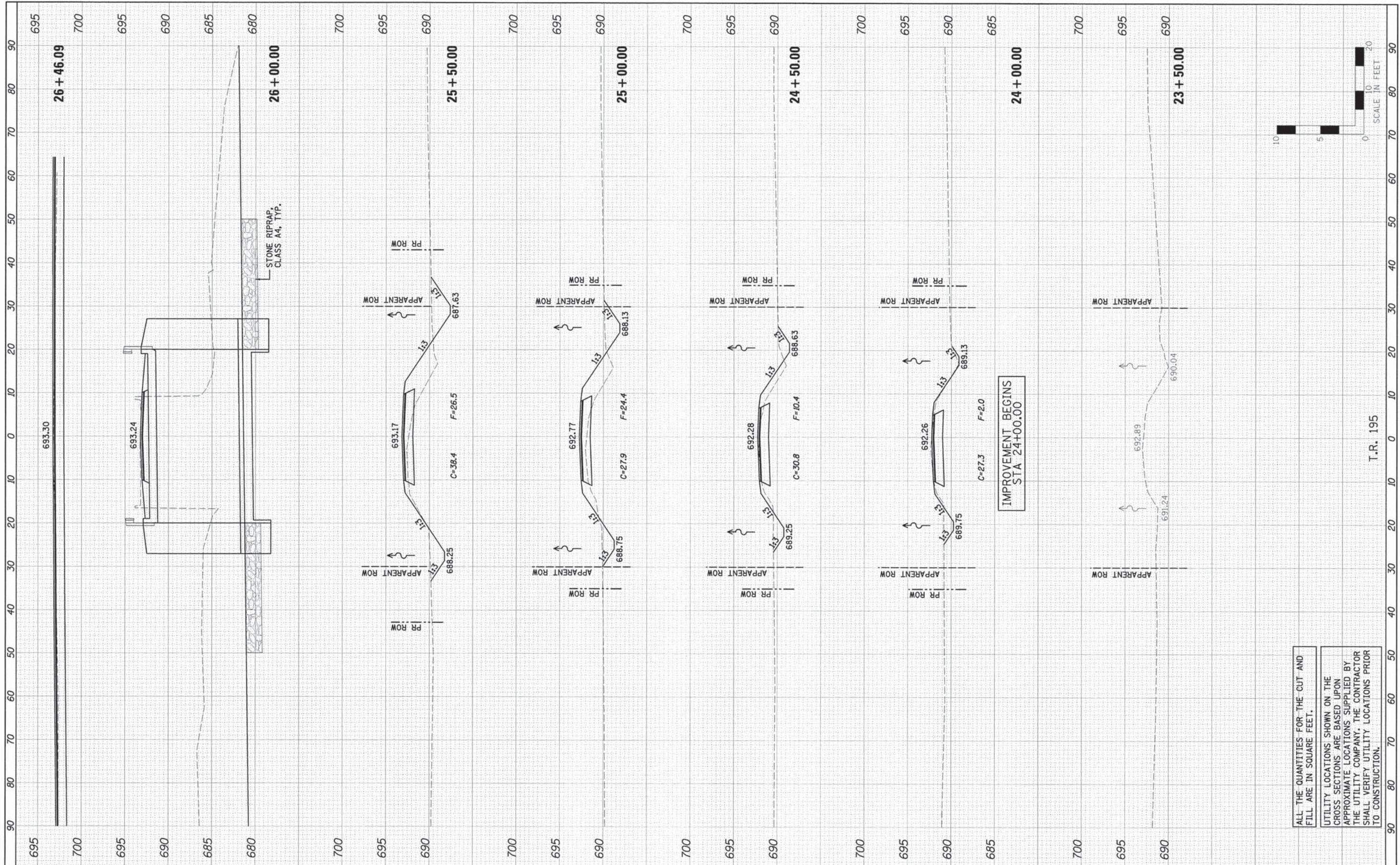
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 053-4206
SHEET NO. B9 OF 9 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56B	11-20115-03-BR	LIVINGSTON	34	27
CONTRACT NO. 87502			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SUBMITTED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPERATURE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY	SUBMITTED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPERATURE	
	AREAS	
	CHECKED	



ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309463-9435, 309463-1271 fax

DESIGNED - JJO
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DRAWN - JJO
CHECKED - JCZ

DATE - 01/31/14

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REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

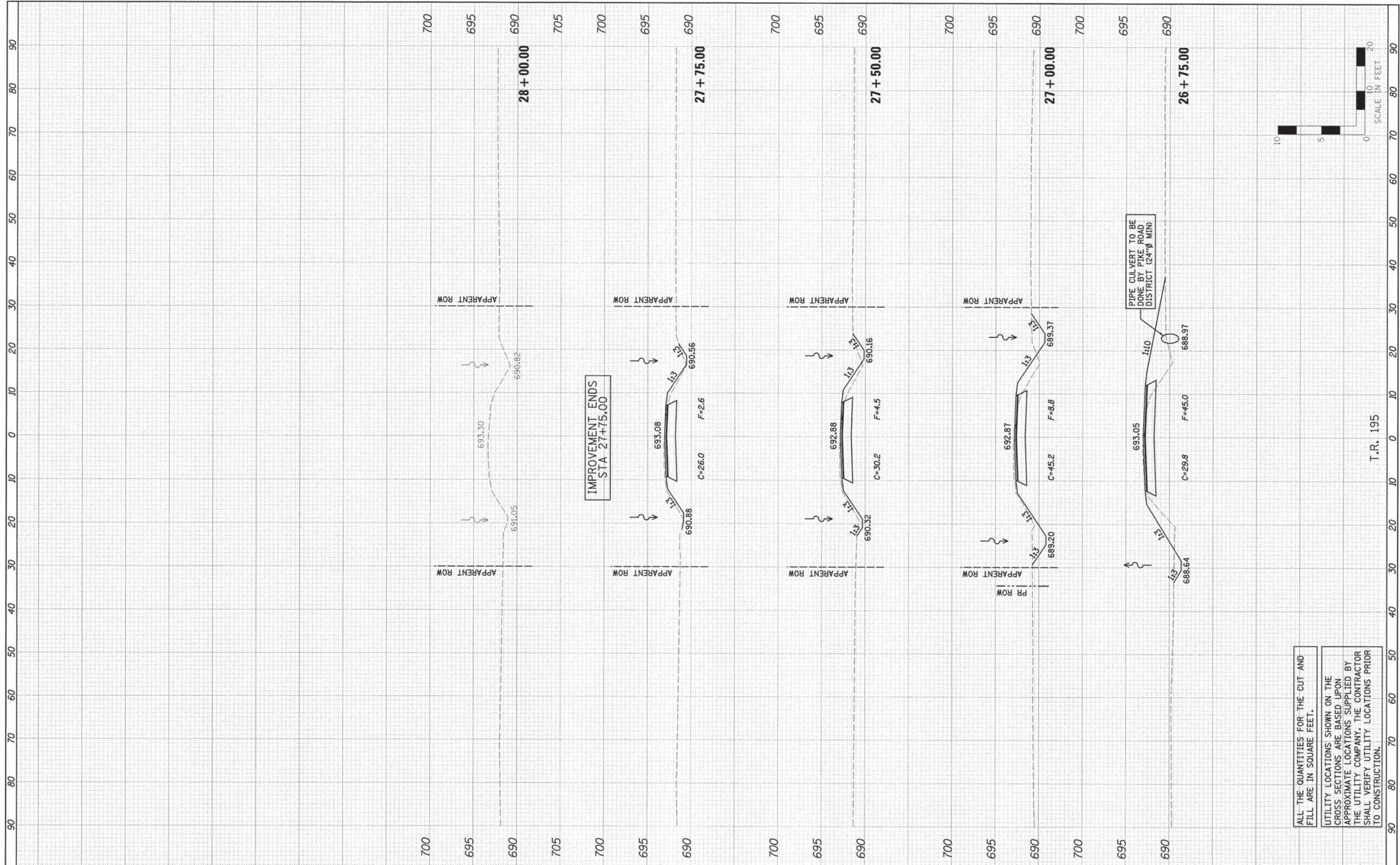
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 23+50.00 TO STA. 26+46.08

T.R. 195	SECTION 11-20115-03-BR	COUNTY LIVINGSTON	TOTAL SHEETS 34	SHEET NO. 28
CONTRACT NO. 87502				
ILLINOIS FED. AID PROJECT				

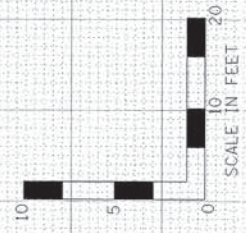
FINAL SURVEY	DATE
NO.	
REVISIONS	BY
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

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



ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

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T.R. 195

Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1974 fax

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DATE - 01/31/14

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

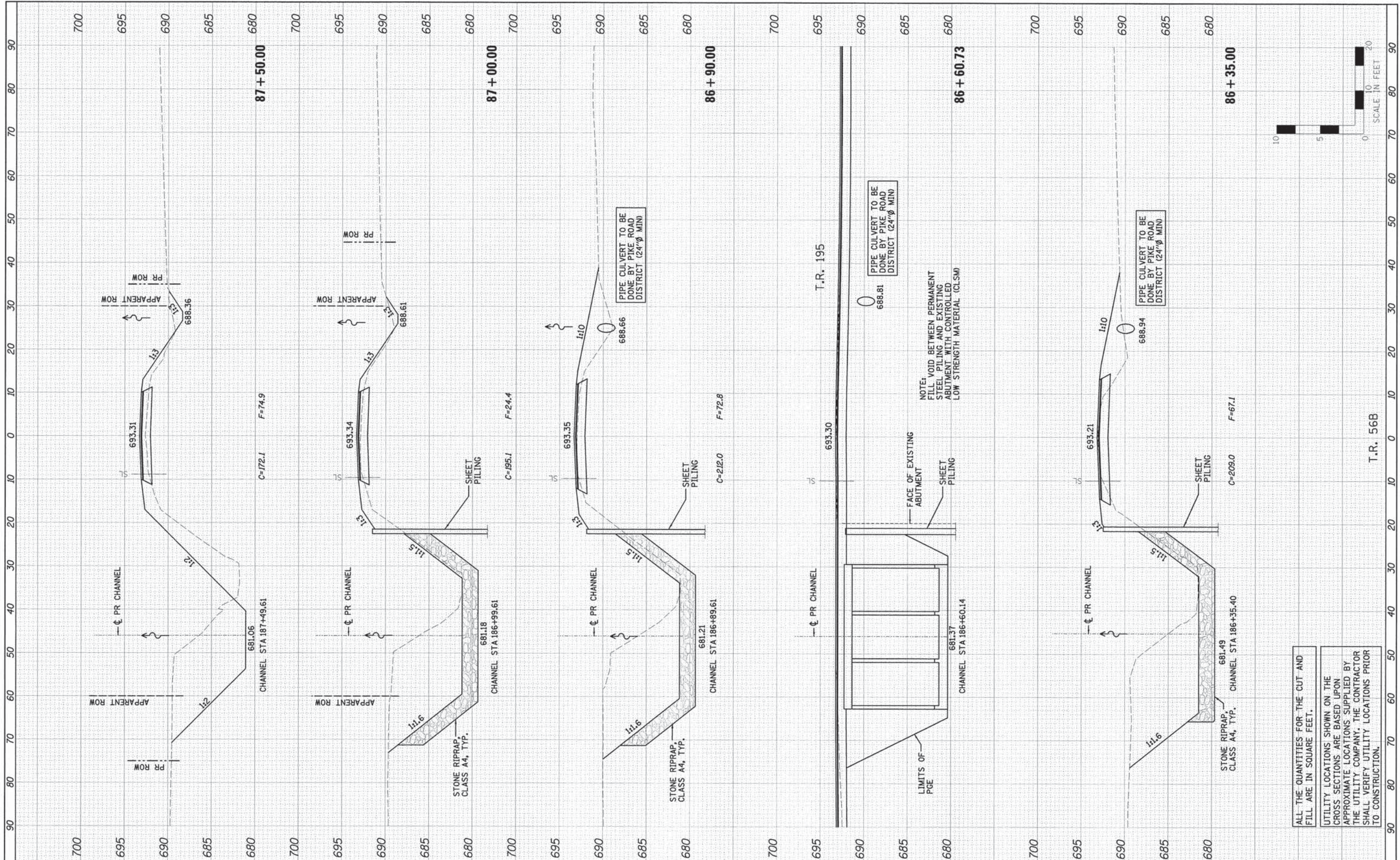
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 26+75.00 TO STA. 28+00.00

T.R. 195	SECTION 11-20115-03-BR	COUNTY LIVINGSTON	TOTAL SHEETS 34	SHEET NO. 29
CONTRACT NO. 87502				
ILLINOIS FED. AID PROJECT				

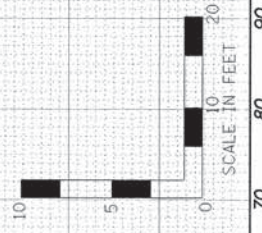
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NOTE BOOK	PLOTTED		
	TEMP. PLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	REVISED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMP. PLATE		
	AREAS CHECKED		



ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.



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2709 McGraw Drive
Bloomington, Illinois 61704
309/863-5435, 309/863-1571 fax

DESIGNED - JJO
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DATE - 01/31/14

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REVISED
REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

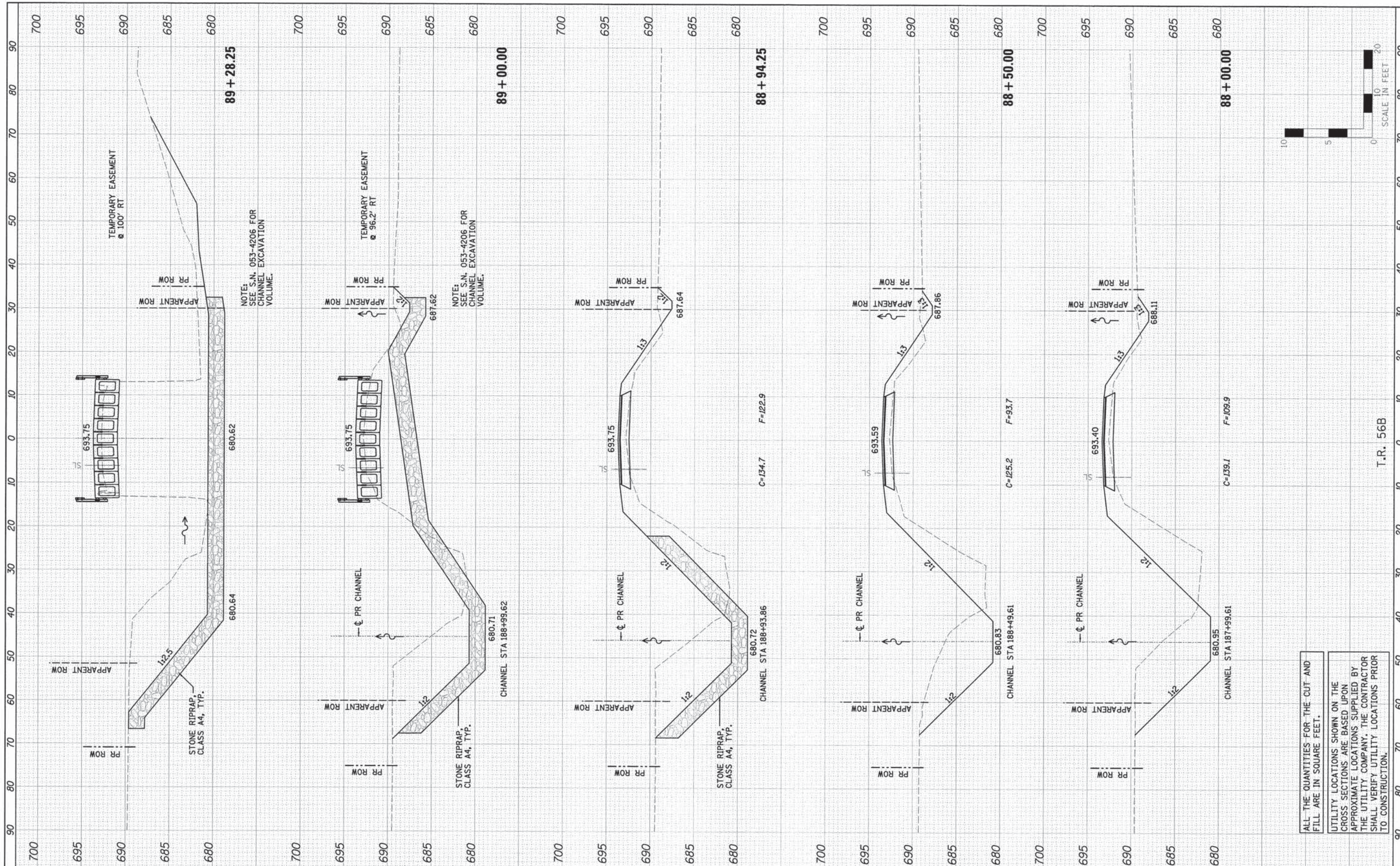
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 86+35.00 TO STA. 87+50.00

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56B	11-20115-03-BR	LIVINGSTON	34	31
CONTRACT NO. 87502				
ILLINOIS FED. AID PROJECT				

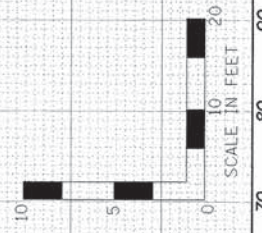
FINAL SURVEY	DATE
PLANNED	BY
PLATTED	
NOTE BOOK	NO.
AREAS CHECKED	

ORIGINAL SURVEY	DATE
PLANNED	BY
PLATTED	
NOTE BOOK	NO.
AREAS CHECKED	



ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.



Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

DATE - 01/31/14

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DRAWN - JJO
CHECKED - JCZ

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REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

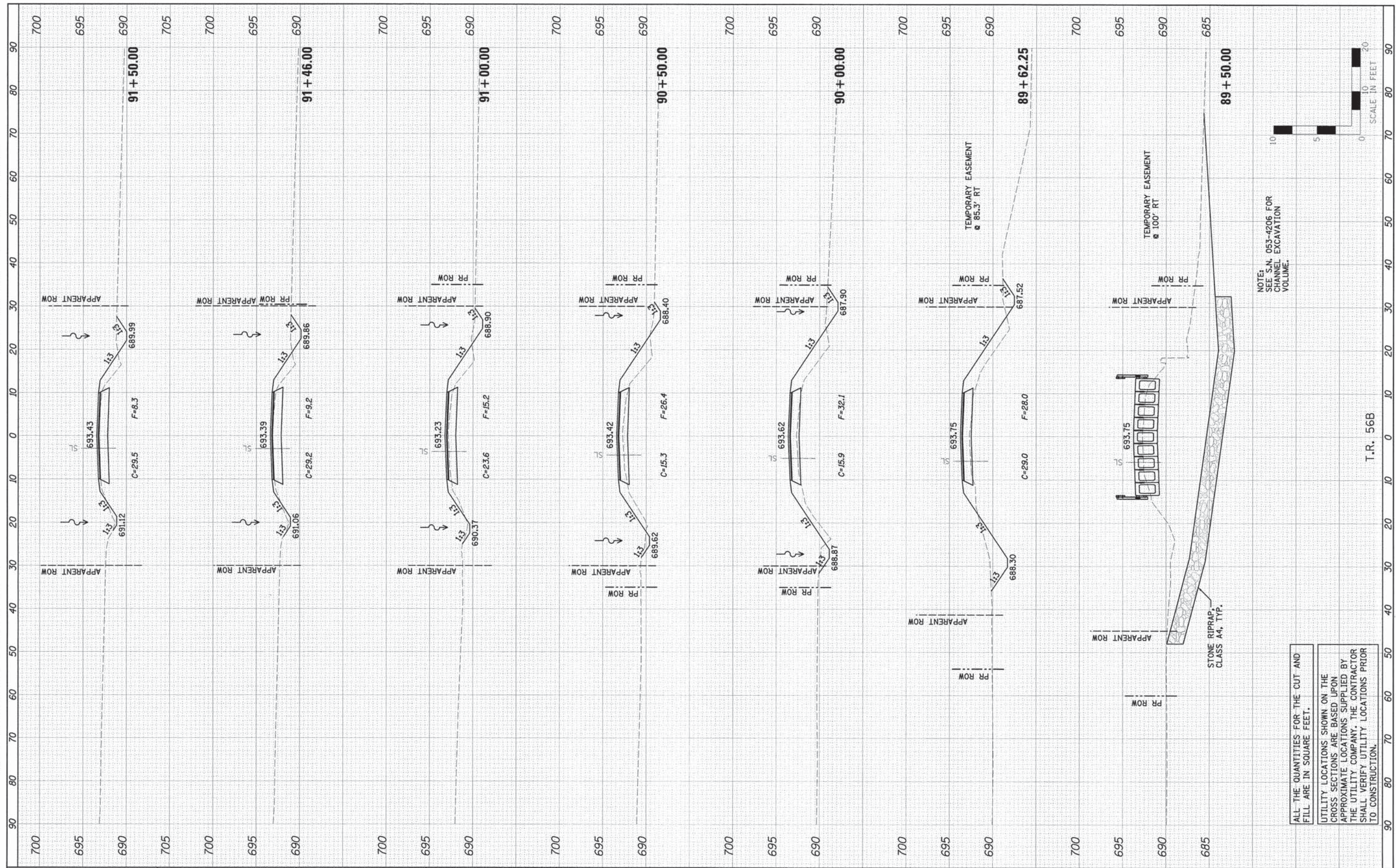
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 88+00.00 TO STA. 89+28.25

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56B	11-2015-03-BR	LIVINGSTON	34	32
CONTRACT NO. 87502				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
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PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

ORIGINAL SURVEY	DATE
REVISIONS	BY
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



NOTE:
SEE S.N. 053-4206 FOR
CHANNEL EXCAVATION
VOLUME.

ALL THE QUANTITIES FOR THE CUT AND
FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE
CROSS SECTIONS ARE BASED UPON
APPROXIMATE LOCATIONS SUPPLIED BY
THE UTILITY COMPANY. THE CONTRACTOR
SHALL VERIFY UTILITY LOCATIONS PRIOR
TO CONSTRUCTION.

T.R. 56B

Farnsworth
GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-4435, 309/663-1571 fax

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DRAWN - JJO
CHECKED - JCZ
DATE - 01/31/14

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REVISIONS
REVISIONS
REVISIONS

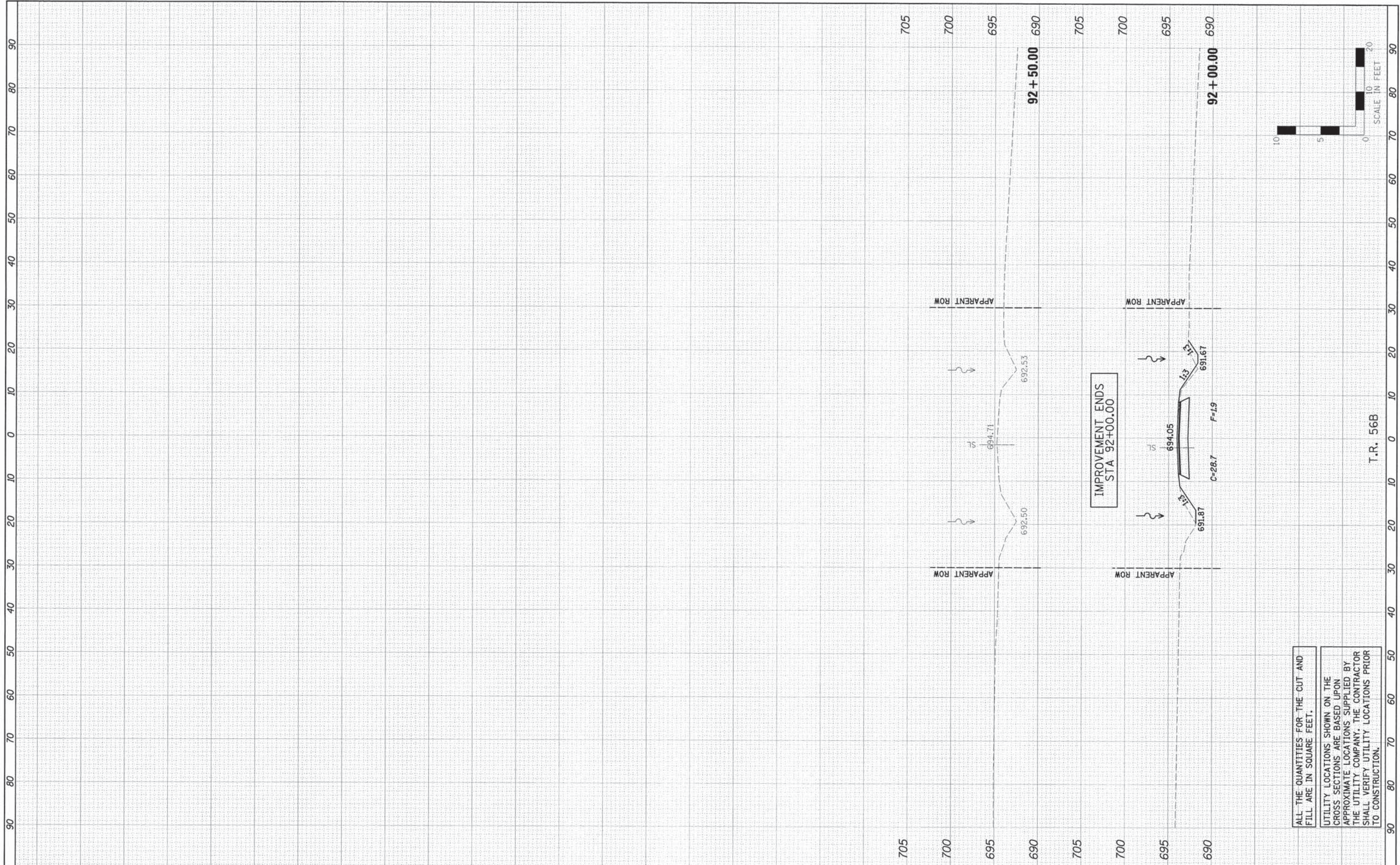
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SCALE: SHEET OF SHEETS STA. 89+50.00 TO STA. 91+50.00

T.R. 56B	SECTION 11-20115-03-BR	COUNTY LIVINGSTON	TOTAL SHEETS 34	SHEET NO. 33
CONTRACT NO. 87502				
ILLINOIS FED. AID PROJECT				

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

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



ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

T.R. 56B

Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

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CHECKED - JML
DRAWN - JJO
CHECKED - JCZ

DATE - 01/31/14

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 92+00.00 TO STA. 92+50.00

T.R. 56B	SECTION 11-20115-03-BR	COUNTY LIVINGSTON	TOTAL SHEETS 34	SHEET NO. 34
CONTRACT NO. 87502				
ILLINOIS FED. AID PROJECT				