

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 87412	

INDEX OF SHEETS

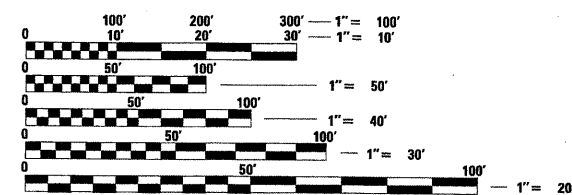
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- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
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- 001006 DECIMAL OF AN INCH AND OF A FOOT
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- 630001-08 STEEL PLATE BEAM GUARDRAIL
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- 631032-05 TRAFFIC BARRIER TERMINAL, TYPE 6A
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- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- B.L.R. 21-8 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- B.L.R. 22-6 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITIES:

- POWER - COMMONWEALTH EDISON (NORTH STRUCTURE)
- TELEPHONE - VERIZON
- GAS - NICOR



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-93-134-09
CONTRACT NUMBER 87412
CONSTRUCTION TYPE CODE: ROADWAY: 1000
BRIDGE: X028-2A

STATE OF ILLINOIS

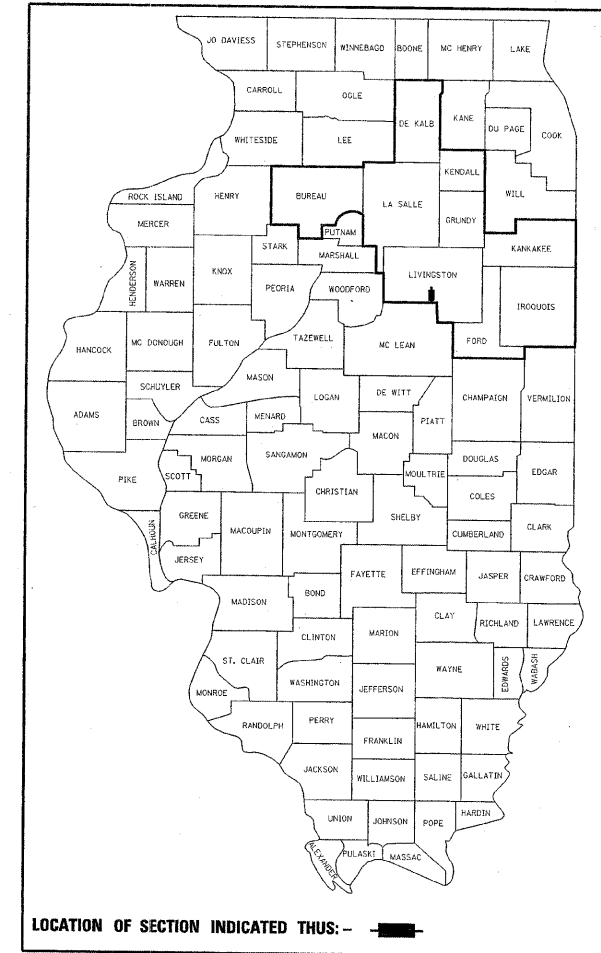
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

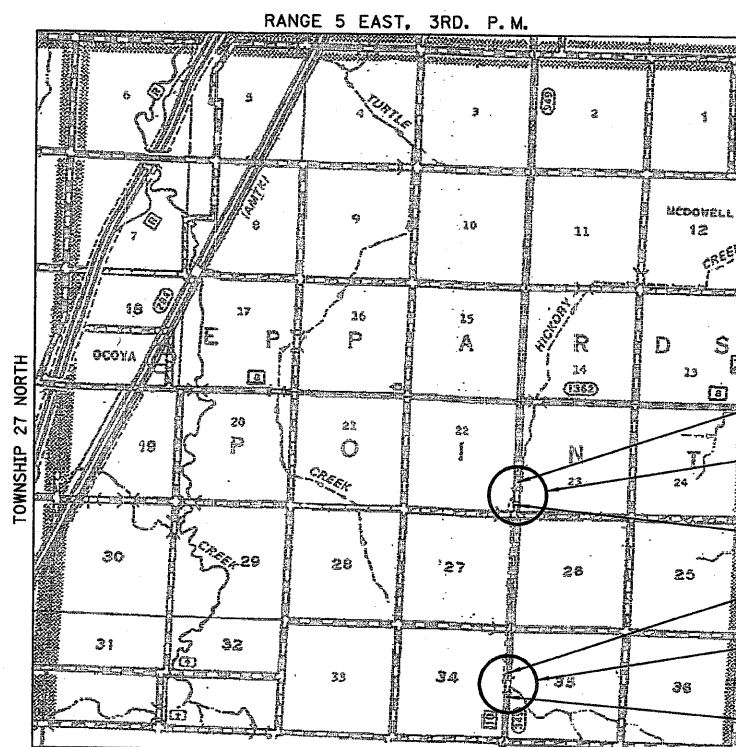
**PLANS FOR PROPOSED
AMERICAN RECOVERY
AND REINVESTMENT ACT**

LIVINGSTON COUNTY
SECTION 09-00120-03-BR
F.A.S. RTE. 349 (C.H. 10)
FEDERAL PROJECT ARA-0349(114)

C-93-134-09



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -



LOCATION MAP

GROSS LENGTH OF PROJECT = 9300.00 FT = 1.761 MILE
NET LENGTH OF PROJECT = 375.00 FT = 0.071 MILE

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
DESIGN SPEED: 55 MPH
DESIGN TRAFFIC: 1800 (2029)
% TRUCKS: 13.0
% PASSENGER VEHICLES: 87.0

APPROVED	10/21	20 09
<i>Mark S. Wylie</i> LIVINGSTON COUNTY HIGHWAY ENGINEER		
PASSED	10-26	20 09
<i>Harold C. Long</i> DISTRICT ENGINEER OF LOCAL ROADS & STREETS		
APPROVED	10-26	20 09
<i>Thomas E. Ryan</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER		
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		



Mark S. Wylie Date 10/21/09
MARK S. WYLIE
ILLINOIS PROFESSIONAL ENGINEER
NO. 062-043716
EXPIRATION 11/30/09

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

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 THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND 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 REESTABLISH 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.

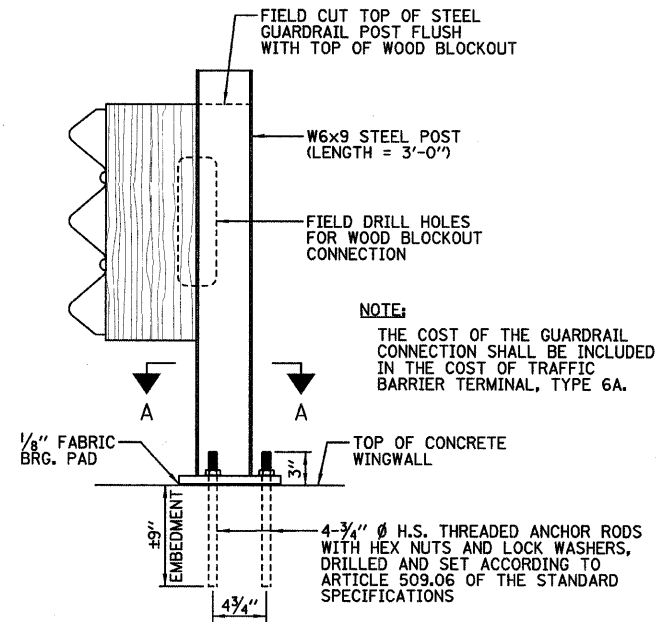
ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS INCLUDED IN THESE PLANS.

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

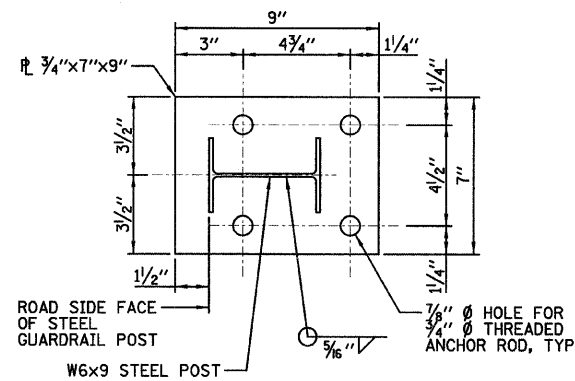
THE COST OF EXCAVATION FOR STONE RIPRAP, CLASS A5 PLACEMENT SHALL BE INCLUDED IN THE COST OF STONE RIPRAP, CLASS A5.

COMMITMENTS

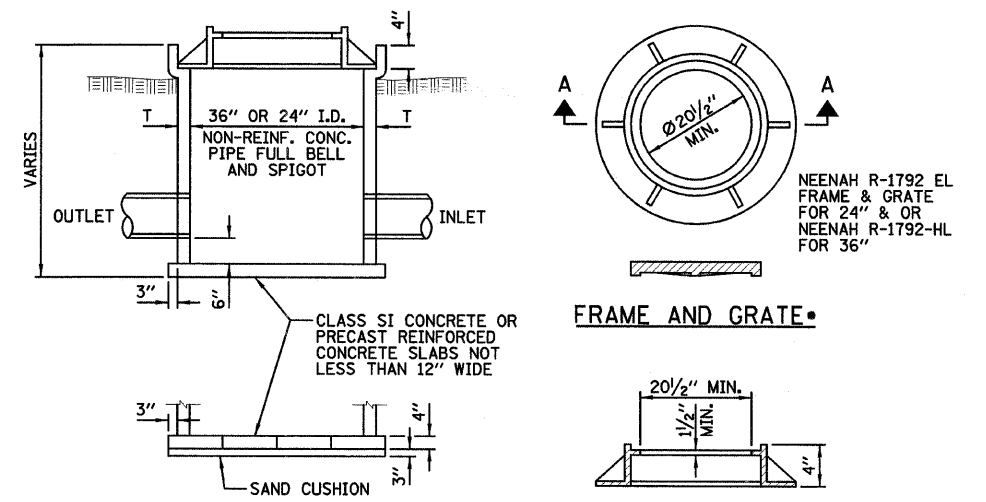
NONE



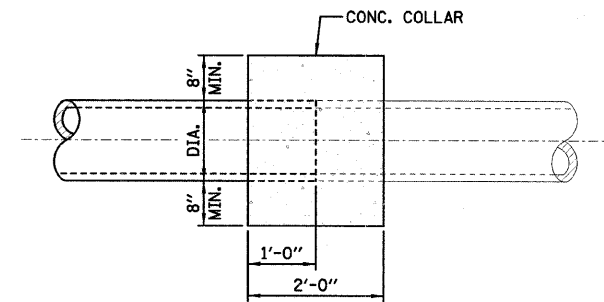
GUARDRAIL CONNECTION DETAIL



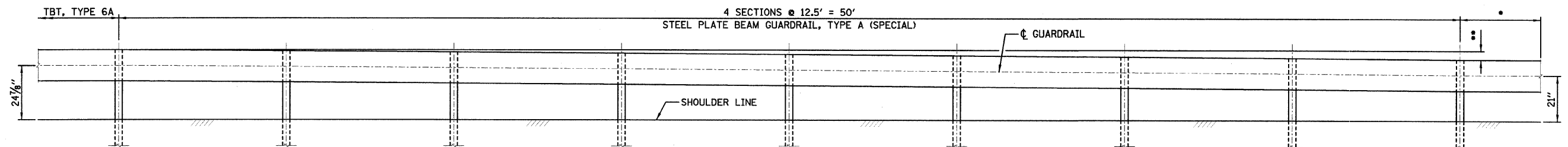
SECTION A-A



FIELD TILE JUNCTION VAULT DETAILS



CONCRETE COLLAR DETAIL



GUARDRAIL TRANSITION DETAIL

- TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT, STEEL PLATE BEAM GUARDRAIL, TYPE A OR EXISTING GUARDRAIL
- ±4" (1" DROP PER 12.5' GUARDRAIL SECTION)

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

GENERAL NOTES, COMMITMENTS AND MISCELLANEOUS DETAILS

WESTON ROAD (C.H. 10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON COUNTY

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	2
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 87412	

FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

24-8255

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL	STRUCTURE NO. 053-5014		STRUCTURE NO. 053-5015	
				ROADWAY 1000	STRUCTURE X028-2A	ROADWAY 1000	STRUCTURE X028-2A
20100110	TREE REMOVAL (6 TO 15 UNIT DIAMETER)	UNIT	44			44	
* 20200100	EARTH EXCAVATION	CU YD	563	236		327	
* 20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	339		228		111
20700220	POROUS GRANULAR EMBANKMENT	CU YD	660	360		300	
* 20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	334		226		108
* 21300010	EXPLORATION TRENCH, SPECIAL	FOOT	400	200		200	
* 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5	0.2		0.3	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	2530	1090		1440	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	740	310		430	
28000305	TEMPORARY DITCH CHECKS	FOOT	140	80		60	
28000400	PERIMETER EROSION BARRIER	FOOT	1509	768		741	
28100109	STONE RIPRAP, CLASS A5	SO YD	1185		480		705
35100100	AGGREGATE BASE COURSE, TYPE A	TON	430	230		200	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	390	180		210	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	210	110		100	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	85	40		45	
44000100	PAVEMENT REMOVAL	SO YD	570	310		260	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	370	130		240	
44004000	PAVED DITCH REMOVAL	FOOT	407		152		255
48100100	AGGREGATE SHOULDERS, TYPE A	TON	570	340		230	
* 50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1		
* 50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1				1

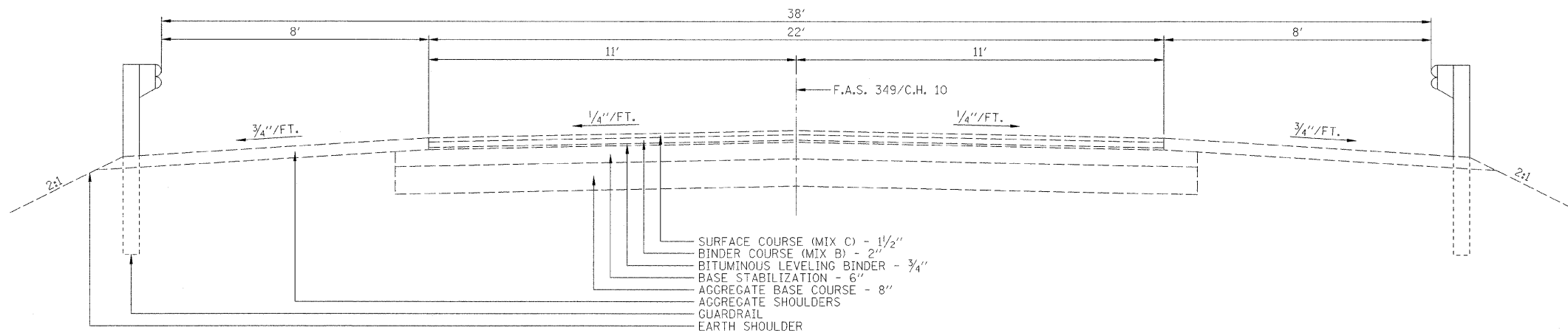
* SPECIAL PROVISION

SUMMARY OF QUANTITIES

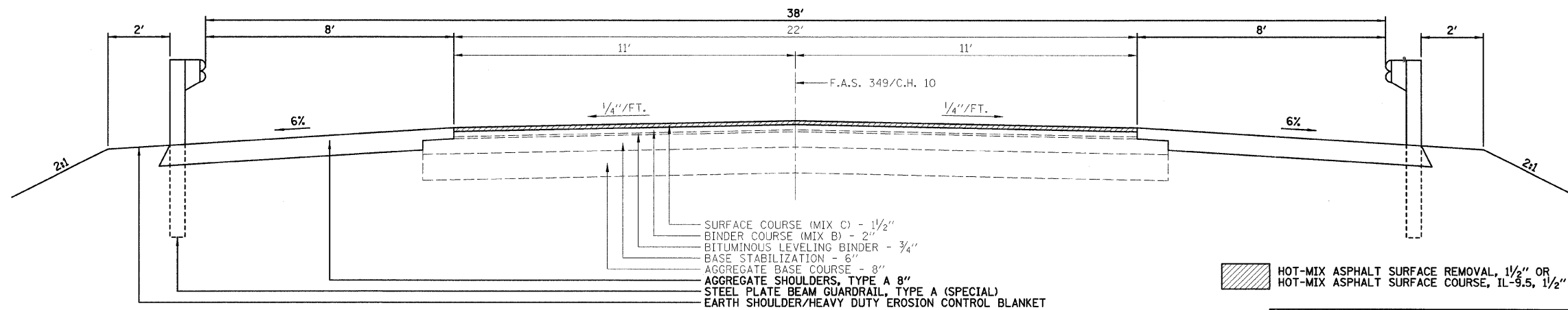
CODE NUMBER	ITEM	UNIT	TOTAL	STRUCTURE NO. 053-5014		STRUCTURE NO. 053-5015	
				ROADWAY 1000	STRUCTURE X028-2A	ROADWAY 1000	STRUCTURE X028-2A
50800105	REINFORCEMENT BARS	POUND	92,090		50,740		41,350
△ 50901050	STEEL RAILING, TYPE SM	FOOT	140		74		66
51500100	NAME PLATES	EACH	2		1		1
54003000	CONCRETE BOX CULVERTS	CU YD	396.9		227.7		169.2
* 54248515	CONCRETE COLLAR	EACH	1	1			
* 61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	1	1			
* 61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	1	1			
* 61140000	STORM SEWERS, SPECIAL 8"	FOOT	40	40			
* 61140900	STORM SEWERS, SPECIAL 24"	FOOT	107	107			
* 61141300	STORM SEWERS, SPECIAL 36"	FOOT	86	86			
△ 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	25			25	
△* 63000130	STEEL PLATE BEAM GUARD RAIL, TYPE A (SPECIAL)	FOOT	400	200		200	
△* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	8	4		4	
△ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2			
* 63200310	GUARDRAIL REMOVAL	FOOT	859	437		422	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	10	6		4	
67100100	MOBILIZATION	L SUM	1	0.5		0.5	
* 70103700	TRAFFIC CONTROL COMPLETE	L SUM	1	0.5		0.5	
△* 78200455	BIDIRECTIONAL GUARD RAIL REFLECTORS	EACH	18	10		8	
△* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2			
* X0322208	TEMPORARY STORM SEWER PLUGS	EACH	1	1			

* SPECIAL PROVISION
△ SPECIALTY ITEMS

DESIGNED - JML	REVISED -	LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS	SUMMARY OF QUANTITIES		WESTON ROAD (C.H. 10) OVER HICKORY CREEK SECTION 09-00120-03-BR LIVINGSTON, COUNTY	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN - DJM	REVISED -		349	09-00120-03-BR		LIVINGSTON	34	3		
CHECKED - MSW	REVISED -		SCALE: SHEET NO. 3 OF 34 SHEETS STA. TO STA.			CONTRACT NO. 87412				
DATE - 10/21/09	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



EXISTING TYPICAL CROSS SECTION

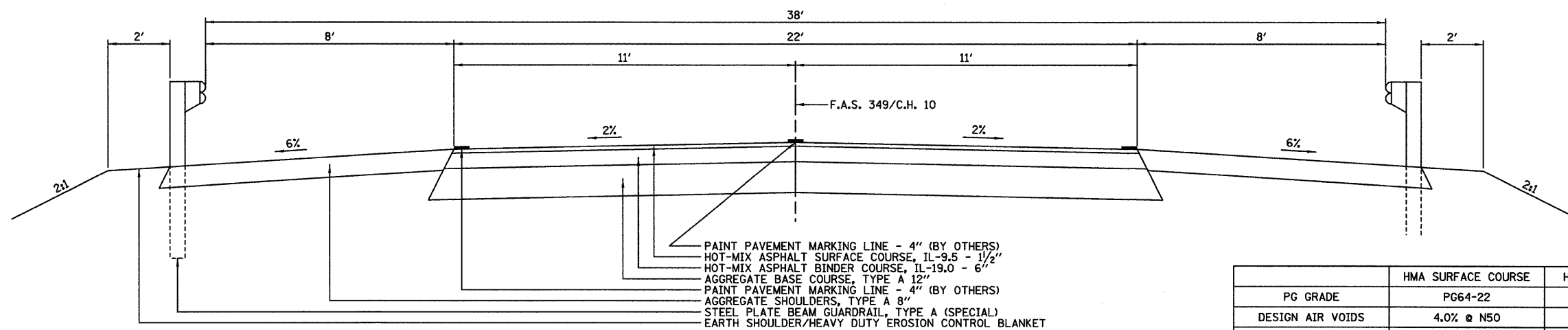


PROPOSED TYPICAL CROSS SECTION

STA. 22+00.12 LT. - STA. 23+00 LT. / STA. 22+55.13 RT. - STA. 23+00 RT.
 STA. 24+75 LT. - STA. 25+20.03 LT. / STA. 24+75 RT. - STA. 25+74.40 RT.
 STA. 113+75.48 LT. - STA. 114+00 LT. / STA. 113+91.71 RT. - STA. 114+00 RT.
 STA. 116+00 LT. - STA. 116+08.30 LT. / STA. 116+00 RT. - STA. 116+24.53 RT.

HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" OR
 HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, 1 1/2"

HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, 1 1/2"
 STA. 23+00 - STA. 23+25
 STA. 24+50 - STA. 24+75
 STA. 114+00 - STA. 114+48
 STA. 115+52 - STA. 116+00



PROPOSED TYPICAL CROSS SECTION

STA. 23+25 - STA. 24+50
 STA. 114+48 - STA. 115+52

	HMA SURFACE COURSE	HMA BINDER COURSE
PG GRADE	PG64-22	PG64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 12.5 OR IL 9.5	IL 19.0
FRICTION AGGREGATE	MIXTURE C	

NOTE: RAP IS NOT TO BE ALLOWED IN AGGREGATE SHOULDERS.
 ASSUMED HMA WEIGHT = 115 LB/SQ YD-IN

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

TYPICAL SECTIONS

WESTON ROAD (C.H. 10) OVER HICKORY CREEK
 SECTION 09-00120-03-BR
 LIVINGSTON COUNTY

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	4
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 87412				

FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

24-8255

TREE REMOVAL (6 TO 15 UNIT DIAMETER)

LOCATION	SN 053-5015 UNIT
STA 114+59 LT	10
STA 114+64 LT	6
STA 115+49 RT	12
STA 115+76 RT	8
STA 115+79 RT	8
TOTAL	44

POROUS GRANULAR EMBANKMENT

LOCATION	SN 053-5014 CU YD	SN 053-5015 CU YD
STA 23+87.00	360	
STA 115+00.00		300
TOTAL	360	300

EXPLORATION TRENCH

LOCATION	SN 053-5014 FOOT	SN 053-5015 FOOT
STA 23+87.00	200	
STA 115+00.00		200
TOTAL	200	200

SEEDING, CLASS 2 (SPECIAL)

LOCATION	SN 053-5014 ACRE	SN 053-5015 ACRE
STA 22+00.12 LT TO STA 25+20.03 LT	0.1	
STA 22+45.00 RT TO STA 25+74.40 RT	0.1	
STA 113+45.00 RT TO STA 116+24.53 RT		0.2
STA 113+65.00 LT TO STA 116+55.00 LT		0.1
TOTAL	0.2	0.3

HEAVY DUTY EROSION CONTROL BLANKET

LOCATION	SN 053-5014 SQ YD	SN 053-5015 SQ YD
STA 22+00.12 LT TO STA 25+20.03 LT	590	
STA 22+45.00 RT TO STA 25+74.40 RT	500	
STA 113+45.00 RT TO STA 116+24.53 RT		820
STA 113+65.00 LT TO STA 116+55.00 LT		620
TOTAL	1090	1440

TEMPORARY EROSION CONTROL SEEDING

LOCATION	SN 053-5014 POUND	SN 053-5015 POUND
STA 22+00.12 LT TO STA 25+20.03 LT	170	
STA 22+45.00 RT TO STA 25+74.40 RT	140	
STA 113+45.00 RT TO STA 116+24.53 RT		240
STA 113+65.00 LT TO STA 116+55.00 LT		190
TOTAL	310	430

TEMPORARY DITCH CHECKS

LOCATION	SN 053-5014 FOOT	SN 053-5015 FOOT
STA 22+50 LT & RT	20	
STA 23+00 LT & RT	20	
STA 23+50 LT	10	
STA 24+00 RT	10	
STA 24+50 RT	10	
STA 25+00 RT	10	
STA 113+50 RT		10
STA 114+00 RT		10
STA 114+50 RT		10
STA 115+50 LT		10
STA 116+00 LT		10
STA 116+50 LT		10
TOTAL	80	60

EARTHWORK

LOCATION	EARTH EXCAVATION CU YD	EXCAVATION ADJUSTED FOR SHRINKAGE* CU YD	EMBANKMENT CU YD	EARTH BALANCE WASTE (+) OR SHORTAGE (-) CU YD
STA 22+50.00 TO STA 23+68.63	130	98	45	+53
STA 24+05.21 TO STA 25+50.00	136	102	60	+42
STA 113+80.00 TO STA 114+84.13	178	134	30	+104
STA 115+15.87 TO STA 116+20.00	149	112	27	+85
TOTAL	563	446	162	+284

*SHRINKAGE FACTOR = 25%

PERIMETER EROSION BARRIER

LOCATION	SN 053-5014 FOOT	SN 053-5015 FOOT
STA 21+95 / 17' LT TO STA 21+95 / 25' LT	8	
STA 21+95 / 25' LT TO STA 22+50 / 33' LT	56	
STA 22+50 / 33' LT TO STA 23+50 / 40' LT	100	
STA 23+50 / 40' LT TO STA 24+15 / 75' LT	74	
STA 24+15 / 75' LT TO STA 25+00 / 75' LT	85	
STA 25+00 / 75' LT TO STA 25+00 / 65' LT	10	
STA 25+00 / 38' LT TO STA 25+00 / 33' LT	5	
STA 25+00 / 33' LT TO STA 25+25 / 33' LT	25	
STA 25+25 / 33' LT TO STA 25+25 / 20' LT	13	
STA 22+40 / 23' RT TO STA 22+40 / 33' RT	10	
STA 22+40 / 33' RT TO STA 22+50 / 33' RT	10	
STA 22+50 / 33' RT TO STA 22+50 / 78' RT	45	
STA 22+80 / 100' RT TO STA 23+25 / 100' RT	45	
STA 23+25 / 100' RT TO STA 25+00 / 33' RT	187	
STA 25+00 / 33' RT TO STA 25+80 / 33' RT	80	
STA 25+80 / 33' RT TO STA 25+80 / 18' RT	15	
STA 113+40 / 23' RT TO STA 113+40 / 48.5' RT		26
STA 113+40 / 48.5' RT TO STA 115+07.44 / 52.82' RT		168
STA 115+07.44 / 52.82' RT TO STA 115+55 / 80' RT		55
STA 115+55 / 80' RT TO STA 116+00 / 80' RT		45
STA 116+00 / 80' RT TO STA 116+00 / 72' RT		8
STA 116+00 / 55.21' RT TO STA 116+00 / 37' RT		18
STA 116+00 / 37' RT TO STA 116+30 / 38' RT		30
STA 116+30 / 38' RT TO STA 116+30 / 21' RT		17
STA 113+65 / 19' LT TO STA 113+65 / 75' LT		56
STA 113+65 / 75' LT TO STA 114+65 / 75' LT		100
STA 114+65 / 75' LT TO STA 115+25 / 40' LT		69
STA 115+25 / 40' LT TO STA 115+50 / 32.81' LT		26
STA 115+50 / 32.81' LT TO STA 116+60 / 32' LT		110
STA 116+60 / 32' LT TO STA 116+60 / 19' LT		13
TOTAL	768	741

AGGREGATE BASE COURSE, TYPE A

LOCATION	SN 053-5014 TON	SN 053-5015 TON
STA 23+25 TO STA 24+50	230	
STA 114+48 TO STA 115+52		200
TOTAL	230	200

BITUMINOUS MATERIALS (PRIME COAT)

LOCATION	SN 053-5014 GAL	SN 053-5015 GAL
STA 23+00 TO STA 24+75	180	
STA 114+00 TO STA 116+00		210
TOTAL	180	210

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

LOCATION	SN 053-5014 TON	SN 053-5015 TON
STA 23+25 TO STA 24+50	110	
STA 114+48 TO STA 115+52		100
TOTAL	110	100

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

LOCATION	SN 053-5014 TON	SN 053-5015 TON
STA 23+00 TO STA 24+75	40	
STA 114+00 TO STA 116+00		45
TOTAL	40	45

PAVEMENT REMOVAL

LOCATION	SN 053-5014 SQ YD	SN 053-5015 SQ YD
STA 23+25 TO STA 24+50	310	
STA 114+48 TO STA 115+52		260
TOTAL	310	260

HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"

LOCATION	SN 053-5014 SQ YD	SN 053-5015 SQ YD
STA 23+00 TO STA 23+25	65	
STA 24+50 TO STA 24+75	65	
STA 114+00 TO STA 114+48		120
STA 115+52 TO STA 116+00		120
TOTAL	130	240

AGGREGATE SHOULDERS, TYPE A

LOCATION	SN 053-5014 TON	SN 053-5015 TON
STA 22+00.12 LT TO STA 25+20.03 LT	170	
STA 22+55.13 RT TO STA 25+74.40 RT	170	
STA 113+75.48 LT TO STA 116+08.30 LT		110
STA 113+91.71 RT TO STA 116+24.53 RT		120
TOTAL	340	230

CONCRETE COLLAR

LOCATION	SN 053-5014 EACH
STA 23+10 RT	1
TOTAL	1

FIELD TILE JUNCTION VAULTS, 2' DIA.

LOCATION	SN 053-5014 EACH
STA 23+64.50 LT	1
TOTAL	1

FIELD TILE JUNCTION VAULTS, 3' DIA.

LOCATION	SN 053-5014 EACH
STA 23+94.25 LT	1
TOTAL	1

STORM SEWERS, SPECIAL 8"

LOCATION	SN 053-5014 FOOT
STA 23+65 LT TO STA 23+95 LT	40
TOTAL	40

STORM SEWERS, SPECIAL 24"

LOCATION	SN 053-5014 FOOT
STA 22+80 RT TO STA 23+41 RT	85
STA 23+95 LT TO STA 24+10 LT	22
TOTAL	107

STORM SEWERS, SPECIAL 36"

LOCATION	SN 053-5014 FOOT
STA 23+09 RT TO STA 23+53 RT	73
STA 23+54 RT TO STA 23+61 RT	13
TOTAL	86

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS

LOCATION	SN 053-5015 FOOT
STA 113+91.71 RT TO STA 114+04.21 RT	12.5
STA 115+95.80 LT TO STA 116+08.30 LT	12.5
TOTAL	25

STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)

LOCATION	SN 053-5014 FOOT	SN 053-5015 FOOT
STA 22+55.13 RT TO STA 23+05.13 RT	50	
STA 22+95.06 LT TO STA 23+45.06 LT	50	
STA 24+29.20 RT TO STA 24+79.20 RT	50	
STA 24+70.03 LT TO STA 25+20.03 LT	50	
STA 113+75.48 LT TO STA 114+25.48 LT		50
STA 114+04.21 RT TO STA 115+95.80 RT		50
STA 115+45.08 LT TO STA 115+95.80 LT		50
STA 115+74.53 RT TO STA 116+24.53 RT		50
TOTAL	200	200

TRAFFIC BARRIER TERMINAL, TYPE 6A

LOCATION	SN 053-5014 EACH	SN 053-5015 EACH
STA 23+05.13 RT	1	
STA 23+45.06 LT	1	
STA 24+29.20 RT	1	
STA 24+70.03 LT	1	
STA 114+25.48 LT		1
STA 114+04.21 RT		1
STA 115+45.08 LT		1
STA 115+74.53 RT		1
TOTAL	4	4

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

LOCATION	SN 053-5014 EACH
STA 22+45.06 LT	1
STA 25+29.20 RT	1
TOTAL	2

GUARDRAIL REMOVAL

LOCATION	SN 053-5014 FOOT	SN 053-5015 FOOT
STA 22+55.13 RT TO STA 23+57.31 RT	102	
STA 22+79.43 LT TO STA 23+94.78 LT	116	
STA 23+80.80 RT TO STA 24+96.27 RT	116	
STA 24+17.65 LT TO STA 25+20.03 LT	103	
STA 113+75.48 LT TO STA 114+76.77 LT		102
STA 113+91.71 RT TO STA 115+02.66 RT		111
STA 114+99.35 LT TO STA 116+08.30 LT		109
STA 115+25.07 RT TO STA 116+24.53 RT		100
TOTAL	437	422

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

LOCATION	SN 053-5014 EACH	SN 053-5015 EACH
STA 22+50 / 33' RT	1	
STA 23+00 / 45' RT	1	
STA 24+00 / 45' RT	1	
STA 25+00 / 33' RT	1	
STA 22+50 / 33' LT	1	
STA 23+50 / 40' LT	1	
STA 113+65 / 34.89' LT		1
STA 113+65 / 40' LT		1
STA 115+25 / 40' LT		1
STA 115+50 / 32.81' LT		1
TOTAL	6	4

MOBILIZATION

LOCATION	SN 053-5014 L SUM	SN 053-5015 L SUM
STA 23+87.00	0.5	
STA 115+00.00		0.5
TOTAL	0.5	0.5

TRAFFIC CONTROL COMPLETE

LOCATION	SN 053-5014 L SUM	SN 053-5015 L SUM
STA 23+87.00	0.5	
STA 115+00.00		0.5
TOTAL	0.5	0.5

BIDIRECTIONAL GUARD RAIL REFLECTORS

LOCATION	SN 053-5014 EACH	SN 053-5015 EACH
STA 22+45.06 LT TO STA 25+20.03 LT	5	
STA 22+55.13 RT TO STA 25+29.20 RT	5	
STA 113+75.48 LT TO STA 116+08.30 LT		4
STA 113+91.71 RT TO STA 116+24.53 RT		4
TOTAL	10	8

TERMINAL MARKER - DIRECT APPLIED

LOCATION	SN 053-5014 EACH
STA 22+45.06 LT	1
STA 25+29.20 RT	1
TOTAL	2

TEMPORARY STORM SEWER PLUGS

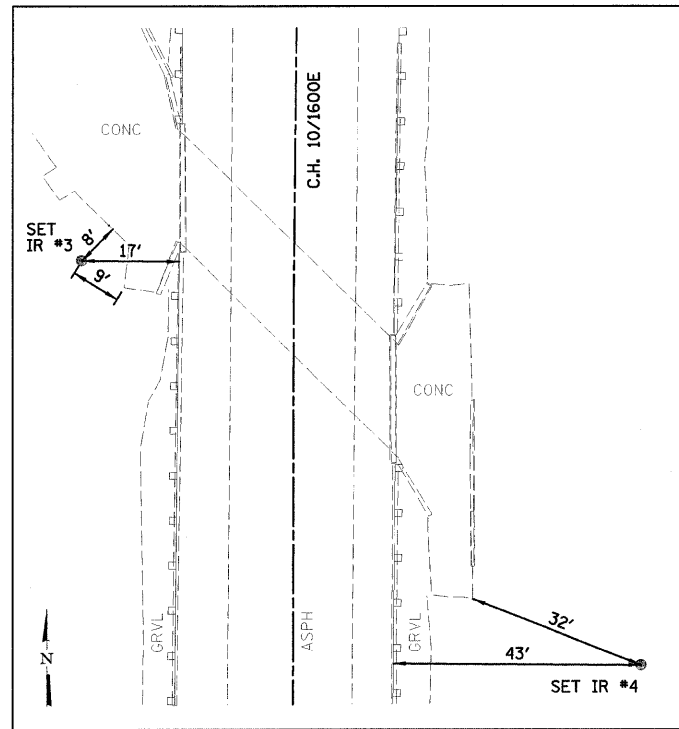
LOCATION	SN 053-5014 EACH
STA 23+54 RT	1
TOTAL	1

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

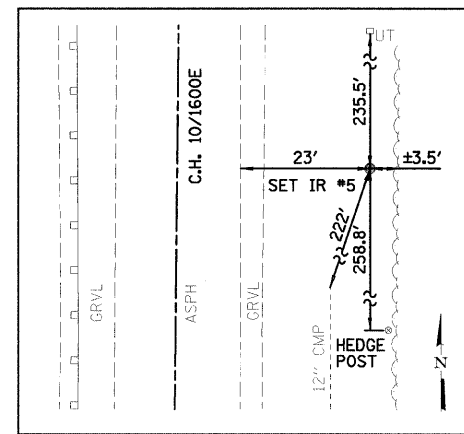
SCHEDULE OF QUANTITIES

WESTON ROAD (C.H. 10) OVER HICKORY CREEK

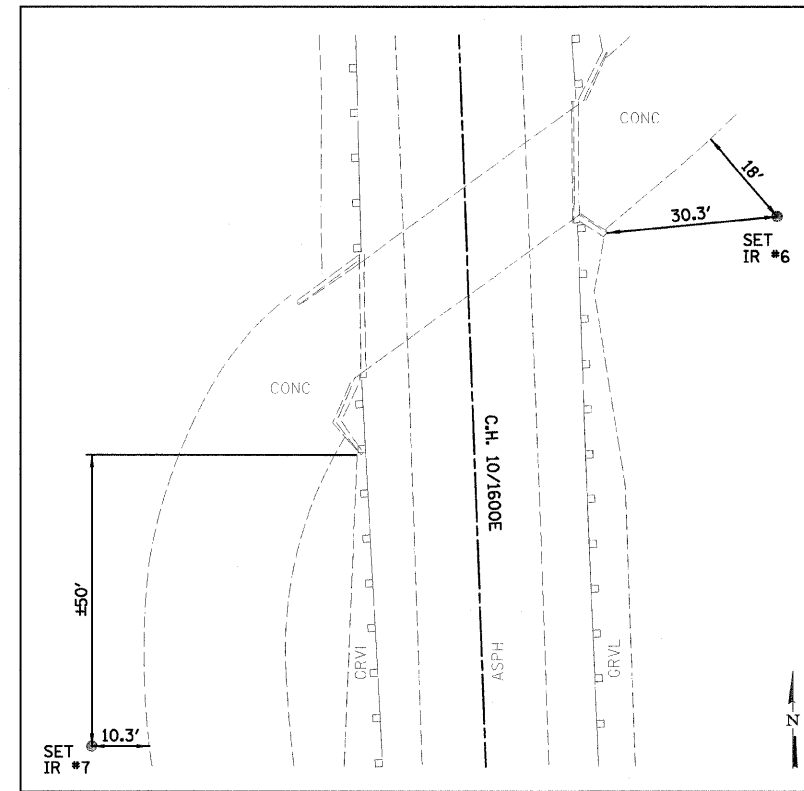


SET IR #3
STA. 23+93.18/37.55' LT.
N = 20000.000
E = 20000.000

SET IR #4
STA. 23+21.76/61.56' RT.
N = 19928.124
E = 20098.953

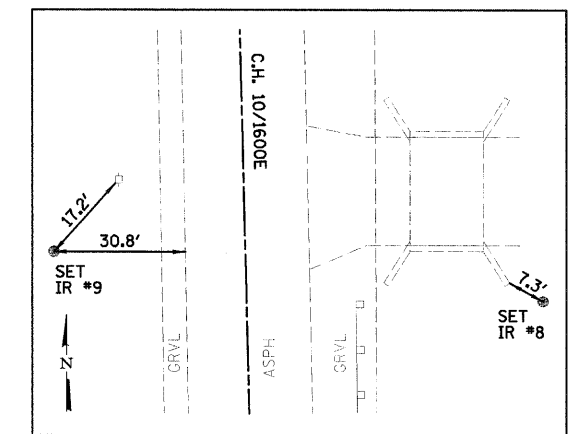


SET IR #5
STA. 29+12.67/34.12' RT.
N = 20518.761
E = 20076.811



SET IR #7
STA. 114+13.34/69.49' LT.
N = 29004.690
E = 19904.260

SET IR #6
STA. 115+02.92/55.05' RT.
N = 29098.758
E = 20025.446



SET IR #9
STA. 121+31.72/40.79' LT.
N = 29724.276
E = 19911.647

SET IR #8
STA. 121+20.64/52.39' RT.
N = 29715.496
E = 20005.068

BENCHMARK:

*641, SET CPS EAST SIDE OF POWER POLE,
1ST NORTH OF BRIDGE, ±60' NORTH, WEST
SIDE OF C.H. 10, STA. 115+56/35' LT.
ELEVATION = 93.78

BENCHMARK:

*645, SET CPS WEST SIDE OF POWER POLE,
4TH NORTH OF BRIDGE, WEST SIDE OF C.H. 10,
STA. 121+45/30' LT.
ELEVATION = 92.20

BENCHMARK:

*926, SET PK NAIL SOUTHWEST CORNER HEDGE
POST AT EAST-WEST CROP LINE, ±150' NORTH
OF NORTH END OF EAST GUARDRAIL ON EAST
SIDE OF C.H. 10, STA. 26+54/40' RT.
ELEVATION = 101.51

BENCHMARK:

*1232, CUT "X" ON TOP EAST-MOST SIDE OF
SOUTH-MOST I-BEAM FOR GUARDRAIL, EAST
SIDE OF C.H. 10, ±50' NORTH OF SOUTH END
OF GUARDRAIL, STA. 22+17/17' RT.
ELEVATION = 105.15

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

SURVEY TIES AND BENCHMARKS

SCALE: SHEET NO. 6 OF 34 SHEETS STA. TO STA.

WESTON ROAD (C.H. 10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON COUNTY

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	6
CONTRACT NO. 87412				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

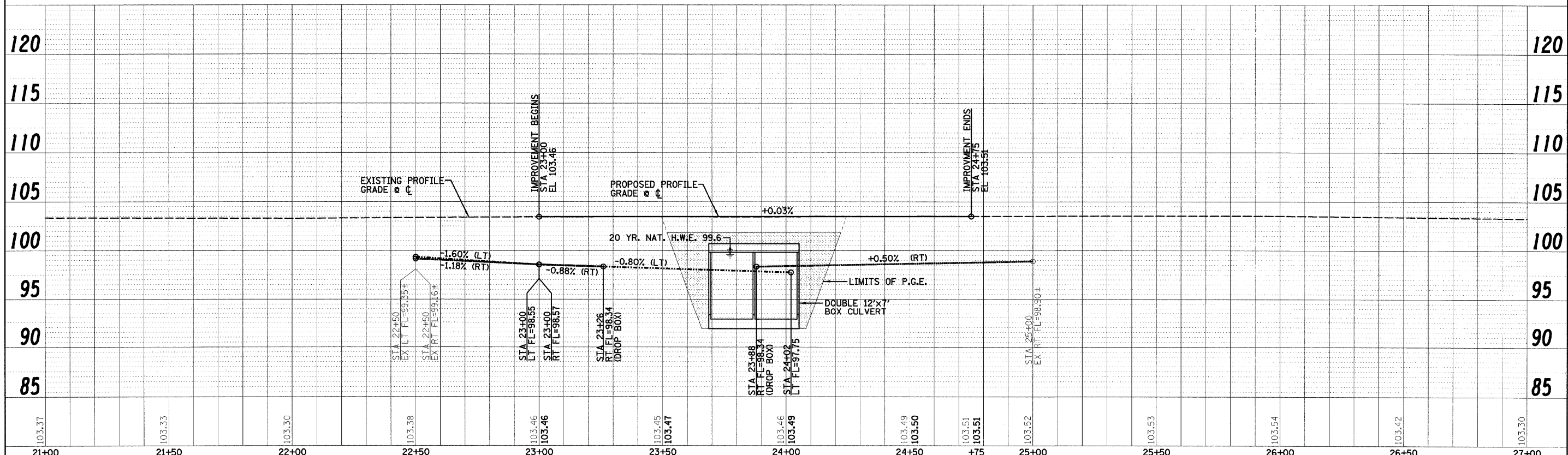
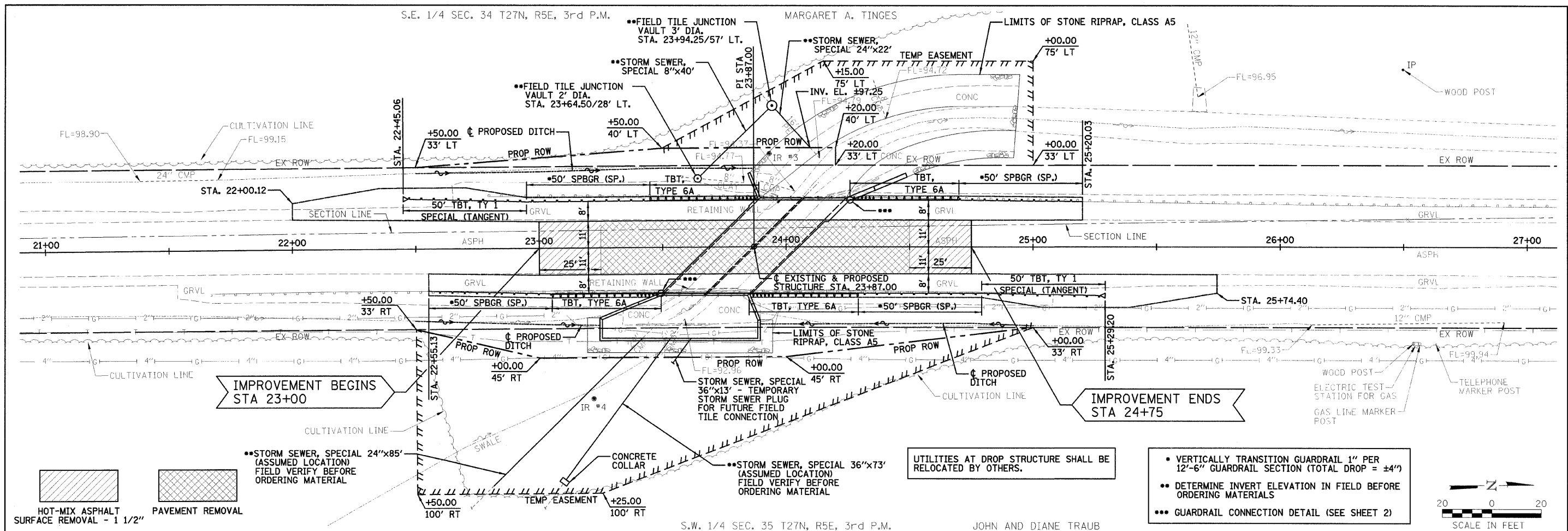
FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

24-8255

PLAN
 SURVEYED BY: _____ DATE: _____
 ALIGNED BY: _____
 CHECKED BY: _____
 DATE: _____
 NO. OF MAY CHECKED: _____
 DADD FILE NAME: _____

PROFILE
 SURVEYED BY: _____ DATE: _____
 CHECKED BY: _____
 DATE: _____
 NO. OF MAY CHECKED: _____
 STRUCTURE NOTATIONS CIRCLED



DESIGNED - JML	REVISED -
DRAWN - DRR	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

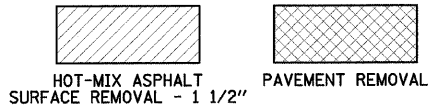
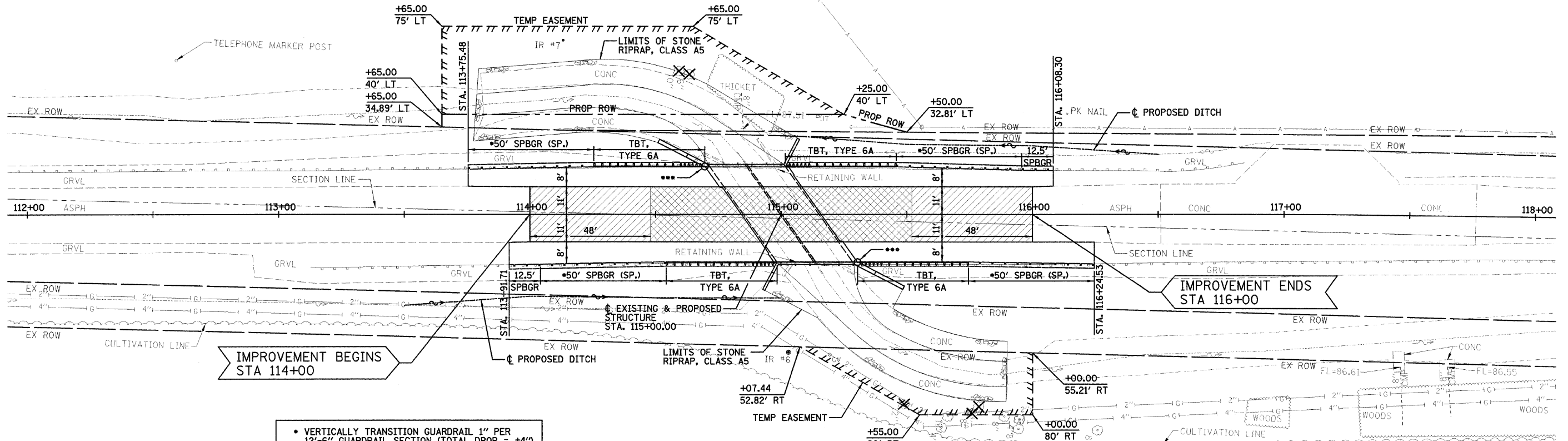
LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

PLAN & PROFILE

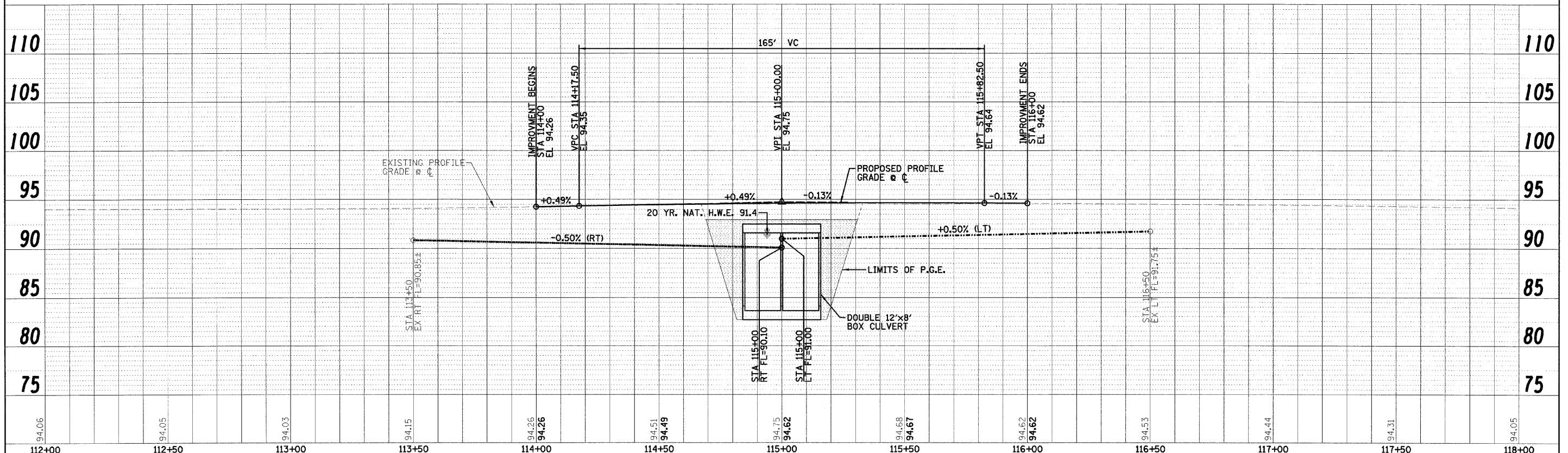
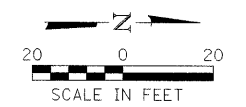
SCALE: _____ SHEET NO. 7 OF 34 SHEETS STA. 21+00 TO STA. 27+00

WESTON ROAD (C.H. 10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON COUNTY

F.A.S. 349	SECTION 09-00120-03-BR	COUNTY LIVINGSTON	TOTAL SHEETS 34	SHEET NO. 7
S.N. 053-5014		CONTRACT NO. 87412		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- VERTICALLY TRANSITION GUARDRAIL 1" PER 12'-6" GUARDRAIL SECTION (TOTAL DROP = ±4")
- DETERMINE INVERT ELEVATION IN FIELD BEFORE ORDERING MATERIALS
- GUARDRAIL CONNECTION DETAIL (SEE SHEET 2)



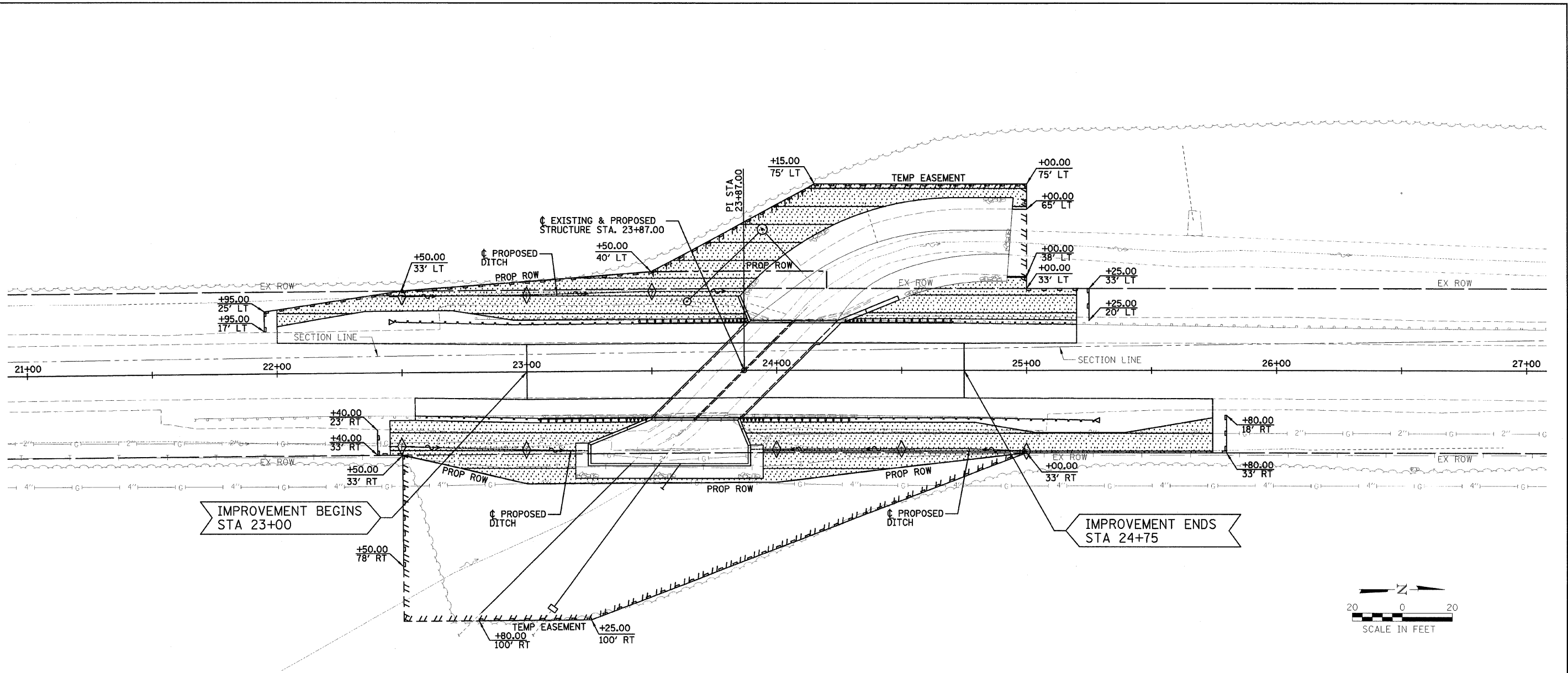
DESIGNED - JML	REVISOR -
DRAWN - DRR	REVISOR -
CHECKED - MSW	REVISOR -
DATE - 10/21/09	REVISOR -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

PLAN & PROFILE
 SCALE: SHEET NO. 8 OF 34 SHEETS STA. 112+00 TO STA. 118+00

**WESTON ROAD (C.H. 10) OVER HICKORY CREEK
 SECTION 09-00120-03-BR
 LIVINGSTON COUNTY**

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	8
S.N. 053-5015		CONTRACT NO. 87412		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



IMPROVEMENT BEGINS
STA 23+00

IMPROVEMENT ENDS
STA 24+75



- 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.

LEGEND	
	TEMPORARY DITCH CHECK @ 50' SPACING
	PERIMETER EROSION BARRIER
	TEMPORARY EROSION CONTROL SEEDING, HEAVY DUTY EROSION CONTROL BLANKET & SEEDING, CLASS 2 (SPECIAL)
	STONE RIPRAP, CLASS A5

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

EROSION CONTROL PLAN

SCALE: SHEET NO. 9 OF 34 SHEETS STA. TO STA.

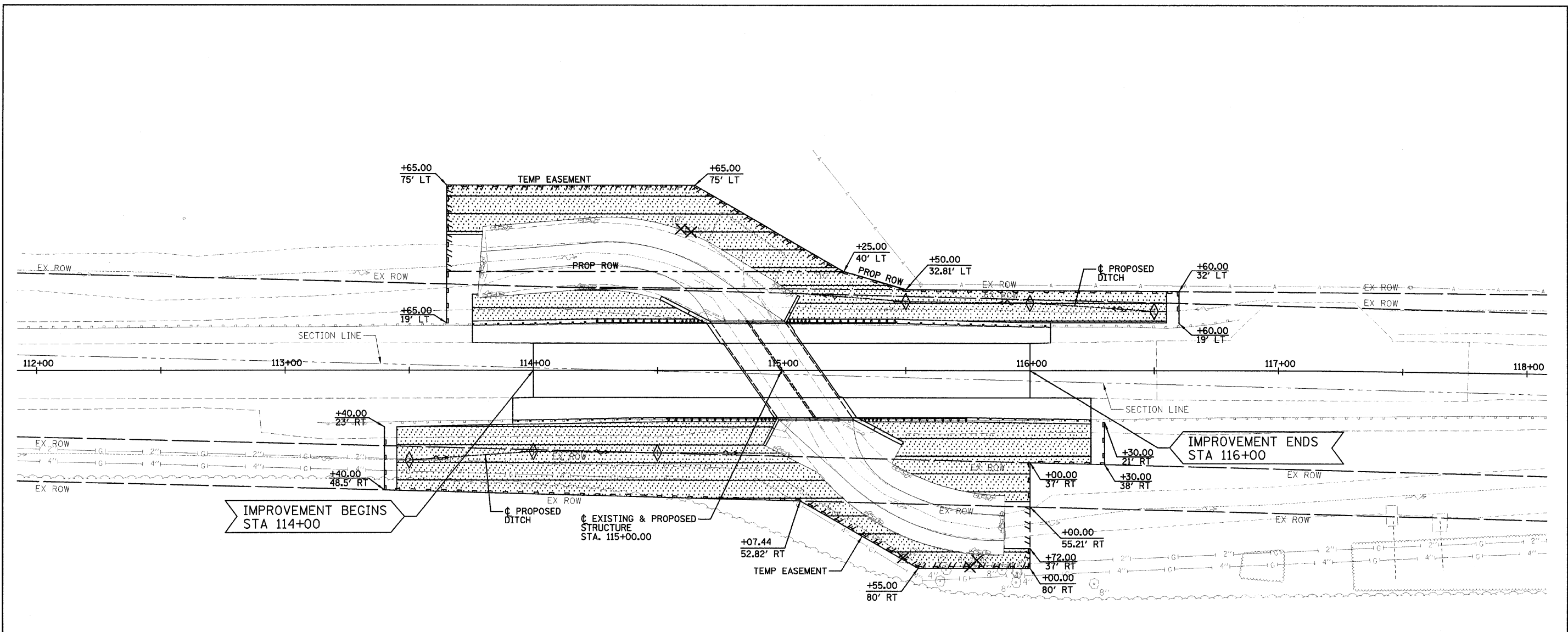
WESTON ROAD (C.H. 10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON, COUNTY

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	9
S.N. 053-5014		CONTRACT NO. 87412		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FARNSWORTH GROUP, INC.

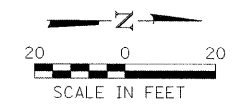
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

24-8255



IMPROVEMENT BEGINS STA 114+00

IMPROVEMENT ENDS STA 116+00



- 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.

LEGEND	
	TEMPORARY DITCH CHECK @ 50' SPACING
	PERIMETER EROSION BARRIER
	TEMPORARY EROSION CONTROL SEEDING, HEAVY DUTY EROSION CONTROL BLANKET & SEEDING, CLASS 2 (SPECIAL)
	STONE RIPRAP, CLASS A5
	DECIDUOUS TREE TO BE REMOVED

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

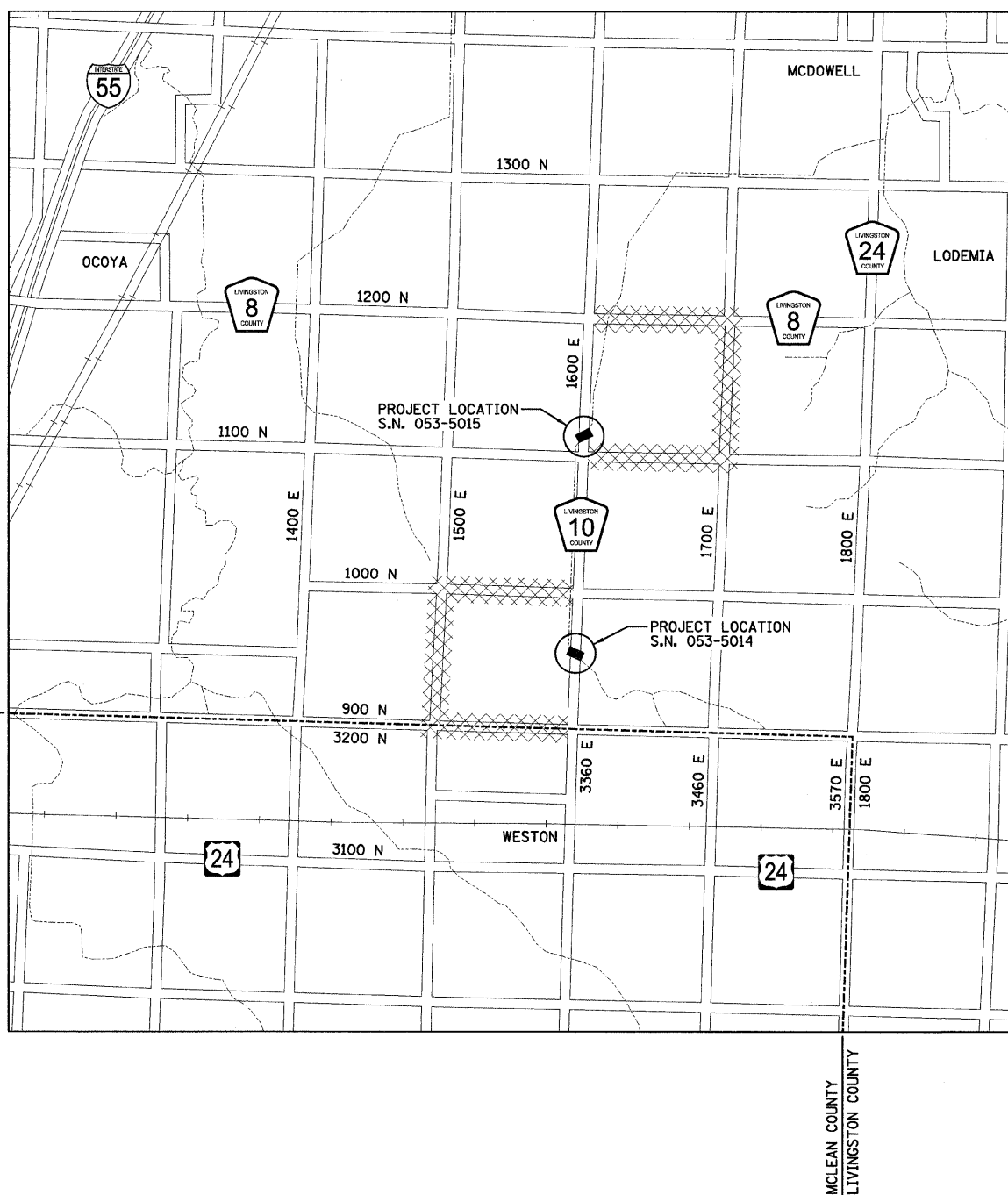
LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

EROSION CONTROL PLAN

SCALE: SHEET NO. 10 OF 34 SHEETS STA. TO STA.

WESTON ROAD (C.H. 10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON, COUNTY

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	10
S.N. 053-5015		CONTRACT NO. 07412		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



LEGEND

DETOUR ROUTE (NO TRUCKS)

COUNTY LINE

SIGN M4-9R

SIGN M4-9L

SIGN COLORS:
 LEGEND: BLACK
 BACKGROUND: ORANGE (RETROREFLECTIVE)

- NOTES:**
- 1.) ALL DETOUR SIGNAGE SHALL BE WOOD POST MOUNTED.
 - 2.) DETOUR SIGNS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
 - 3.) CONTRACTOR TO CONTACT ALL EMERGENCY SERVICES AND MAIL ROUTES A MINIMUM OF 72 HOURS IN ADVANCE OF STARTING CONSTRUCTION.

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

DETOUR PLAN

SCALE: SHEET NO. 11 OF 34 SHEETS STA. TO STA.

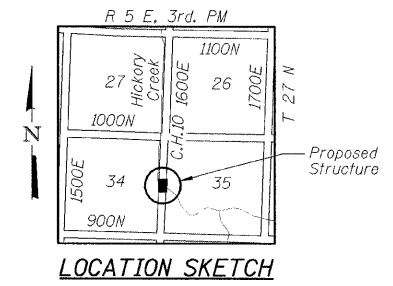
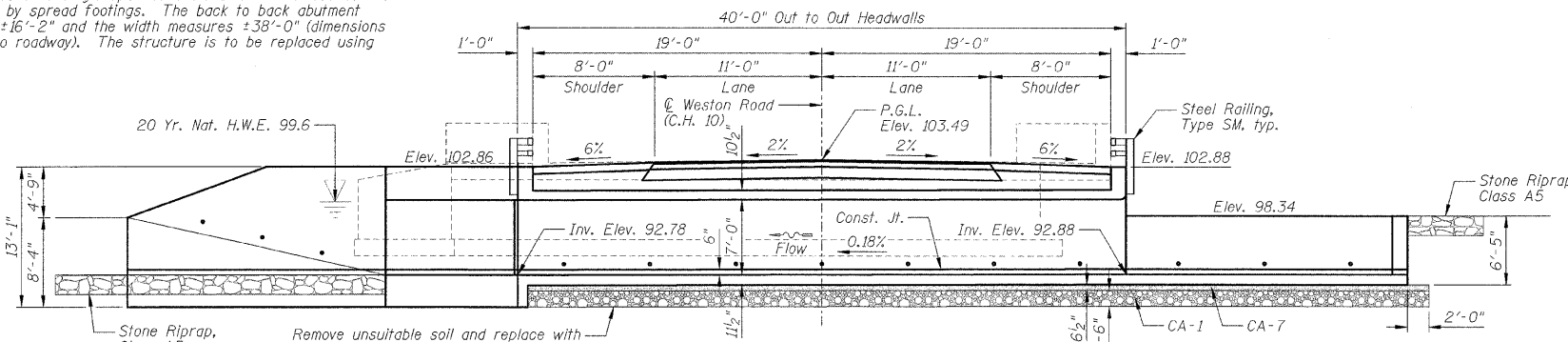
**WESTON ROAD (C.H. 10) OVER HICKORY CREEK
 SECTION 09-00120-03-BR
 LIVINGSTON, COUNTY**

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	11
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 87412	

Benchmarks: #926, set PK nail Southwest corner hedge post at East-West crop line, ±150' North of North end of East guardrail on East side of C.H. 10, Elevation = 101.51/Sta. 26+54/40' RT.
 #1232, cut "X" on top East-most side of South-most I-Beam for guardrail, East side of C.H. 10, ±50' North of South end of guardrail, Elevation = 105.15/Sta. 22+17/17' RT.

Existing Structure: SN 053-3440 was originally constructed in 1938 by Livingston County. The structure consists of a single span concrete slab with closed concrete abutments supported by spread footings. The back to back abutment dimension measures ±16'-2" and the width measures ±38'-0" (dimensions are @ right angles to roadway). The structure is to be replaced using road closure.

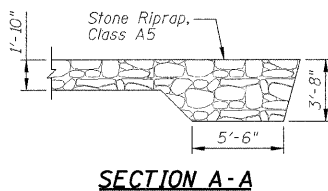
No Salvage.



WATERWAY INFORMATION

Drainage Area = 5.6 Sq. Mi. Low Grade Elev. 103.45 ft. @ Sta. 23+87.00

Flood Yr.	Freq.	Q	Opening	Nat. Head	Prop. Head	Headwater	Prop. Headwater
		C.F.S.	Sq. Ft.	H.W.E. Exis.	H.W.E. Prop.	El. Exis.	El. Prop.
Design	20	841	98	168	99.6	1.8	101.4
Base	100	1272	98	168	101.1	2.2	103.3
Overtopping							
Max. Calc.							



STATION 23+87.00
 BUILT 20__ BY
 LIVINGSTON COUNTY
 F.A.S. RTE. 349
 SECTION 09-00120-03-BR
 LOADING HS25
 STR. NO. 053-5014

NAME PLATE
 See Standard 515001

DESIGN SPECIFICATIONS

AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES

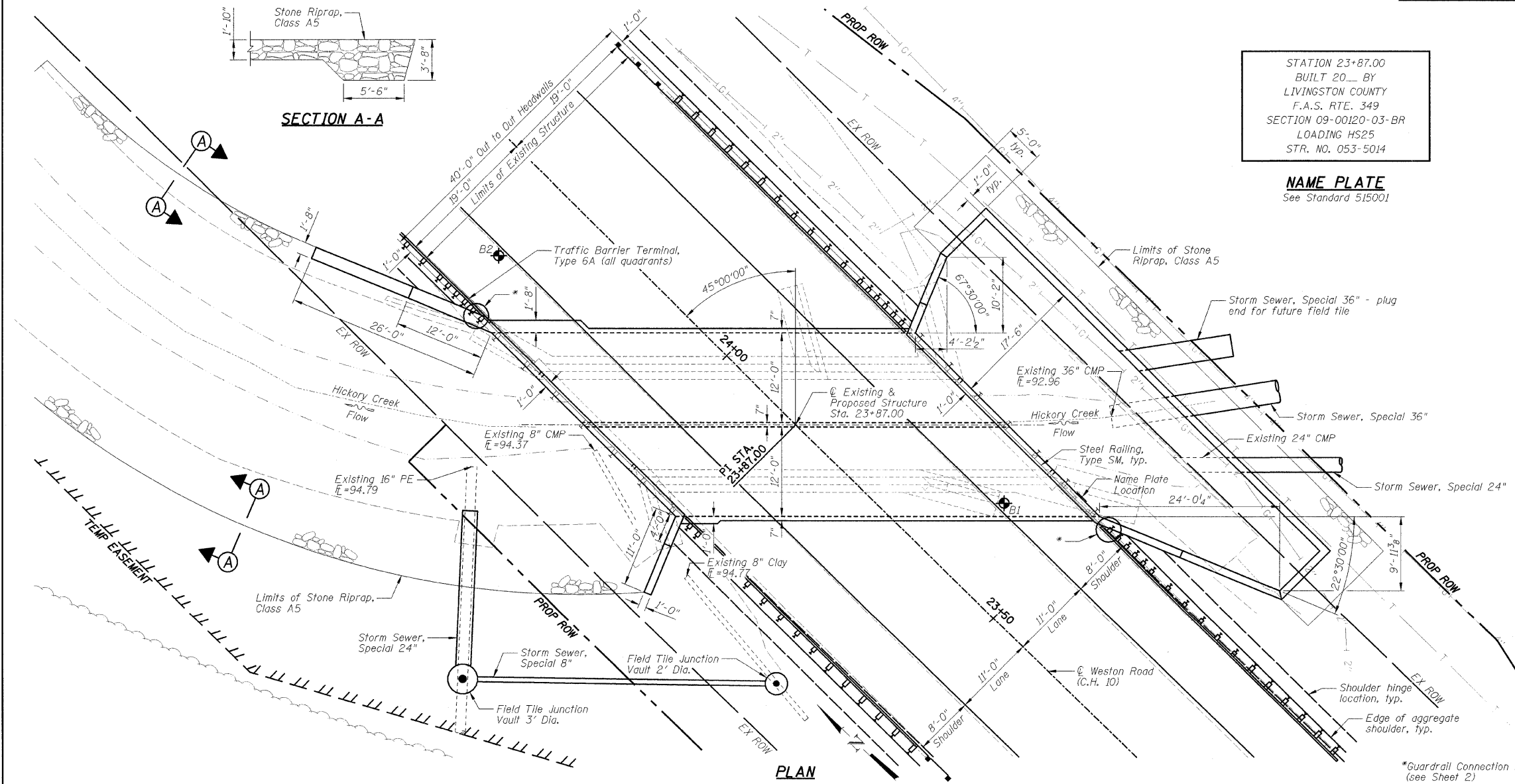
Cast-in-Place Concrete (Field Units)
 f'c = 4,000 psi @ 14 days
 fy = 60,000 psi (Reinforcement)

LOADING HS25

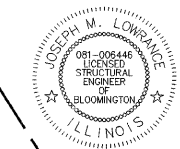
Allow 50#/sq. ft. for future wearing surface.

INDEX TO SHEETS

SHEET NO.	TITLE
A1	GENERAL PLAN AND ELEVATION
A2	GENERAL DATA
A3	BOTTOM & TOP SLAB REINFORCEMENT PLANS
A4	CULVERT WALL ELEVATIONS
A5	WINGWALL DETAILS
A6-A8	DROP BOX DETAILS
A9	STEEL RAILING, TYPE SM
A10-A11	SOIL BORING LOGS



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
 JOSEPH M. LOWRANCE
 ILLINOIS STRUCTURAL ENGINEER
 NO. 081-006446
 Exp. Date 11/30/10

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS		GENERAL PLAN AND ELEVATION	
SCALE:	SHEET NO. A1 OF 11 SHEETS	STA.	TO STA.

WESTON ROAD (C.H. 10) OVER HICKORY CREEK			
SECTION 09-00120-03-BR			
LIVINGSTON COUNTY			
STATION 23+87.00			

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	12
S.N. 053-5014		CONTRACT NO. 87412		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

- At least 6'-0" of this culvert barrel shall be poured monolithically with the wingwalls.
- Exposed edges shall be beveled 3/4".
- Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60. See Special Provision.
- For backfilling and embankment, see standard specifications and roadway plans.
- 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".
- 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.
- B.F. denotes Back Face and F.F. denotes Front Face.
- There will be no additional compensation should any reinforcement need to be cut or bent in the field.
- Where called for, construction joints shall be bonded in accordance with section 503.09 (b) of the Standard Specifications.
- Layout of the Slope Protection System may be varied to suit ground conditions in the field as directed by the Engineer.
- Minimum bar lap lengths are as follows, unless noted otherwise.

Barrels:	Bar Size	Min. Lap Length	Wingwalls:	Bar Size	Min. Lap Length
#4	1'-4"	1'-4"	#4	1'-4"	1'-4"
#5	1'-8"	1'-8"	#5	1'-8"	1'-8"
#6	2'-0"	2'-0"	#6	2'-0"	2'-0"
#7	2'-9"	2'-9"	#7	2'-9"	2'-9"
#8	3'-8"	3'-8"	#8	3'-8"	3'-8"
#9	4'-7"	4'-7"	#9	4'-7"	4'-7"
- Precast concrete box culverts will not be allowed.
- The pay item "Removal and Disposal of Unsuitable Material" shall include the excavation of unsuitable material for a depth of 2'-0 1/2" below the structure for a width of approximately 29'-9" within the limits of the West toewall and 2'-0" East of the end of the Drop Box as shown on the plans. The actual quantity shall be determined in the field by the Engineer.
- The pay item "Porous Granular Embankment, Special" shall include the placement of CA-1 and CA-7 below the structure for a width of approximately 29'-9" within the limits of the West toewall and 2'-0" East of the end of the Drop Box as shown on the plans. The actual quantity shall be determined in the field by the Engineer.
- All field tile removal shall be included in the cost of Removal of Existing Structures No. 1.

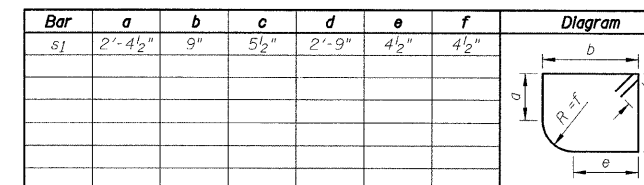
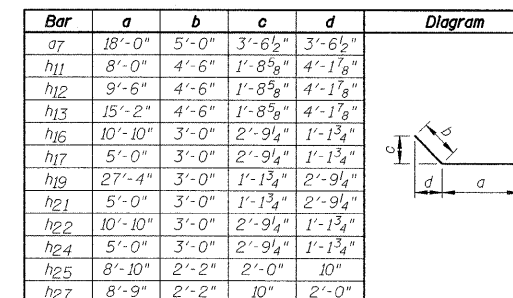
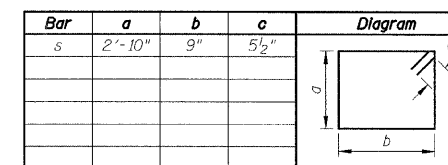
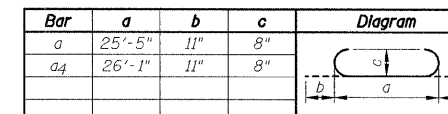
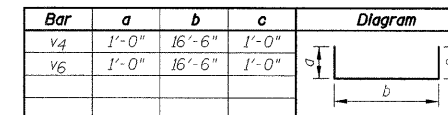
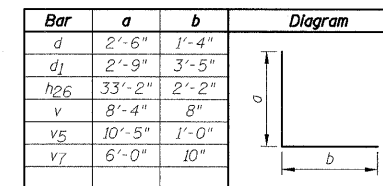
TOTAL BILL OF MATERIAL

ITEMS	UNITS	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	228
Porous Granular Embankment, Special	Cu. Yd.	226
Stone Riprap, Class A5	Sq. Yd.	480
Paved Ditch Removal	Foot	152
Removal of Existing Structures No. 1	Each	1
Reinforcement Bars	Pound	50,740
Steel Railing, Type SM	Foot	74
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	227.7

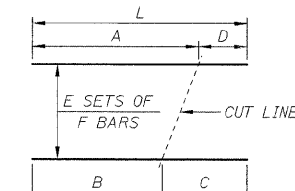
BAR LIST

Bar	No.	Size	Length	Shape
a	110	#8	27'-3"	U
a1	56	#8	25'-5"	U
a2	82	#8	9'-6"	U
a3	40	#8	25'-6"	U
a4	80	#8	27'-11"	U
a5	8	#8	13'-0"	U
a6	3	#4	34'-9"	U
a7	72	#5	23'-0"	U
a8	24	#5	27'-8"	U
a9	5	#5	27'-2"	U
b	36	#5	33'-2"	U
b1	20	#5	35'-0"	U
b2	10	#5	34'-4"	U
d	25	#4	3'-10"	U
d1	60	#7	6'-2"	U
h	124	#7	29'-6"	U
h1	156	#5	19'-11"	U
h2	2	#6	35'-8"	U
h3	4	#4	35'-8"	U
h4	3	#7	35'-8"	U
h5	2	#6	37'-0"	U
h6	4	#4	37'-0"	U
h7	3	#7	37'-0"	U
h8	42	#6	29'-2"	U
h9	18	#8	25'-10"	U
h10	11	#6	25'-10"	U
h11	6	#8	12'-6"	U
h12	14	#8	14'-0"	U
h13	8	#6	19'-8"	U
h14	10	#8	26'-5"	U
h15	5	#6	26'-5"	U
h16	12	#7	13'-10"	U
h17	9	#7	8'-0"	U
h18	6	#7	12'-2"	U
h19	6	#5	30'-4"	U
h20	5	#5	26'-7"	U
h21	1	#5	8'-0"	U
h22	6	#5	13'-10"	U
h23	5	#5	12'-4"	U
h24	1	#5	8'-0"	U
h25	6	#5	10'-6"	U
h26	12	#5	35'-4"	U
h27	6	#5	10'-11"	U
h28	4	#5	20'-0"	U
h29	8	#5	4'-0"	U
h30	3	#5	8'-0"	U
h31	4	#5	3'-0"	U
s	36	#5	8'-1"	U
s1	36	#5	7'-9"	U
v	210	#4	9'-0"	U
v1	10	#4	20'-9"	U
v2	20	#4	12'-9"	U
v3	3	#4	20'-10"	U
v4	7	#6	18'-6"	U
v5	9	#6	11'-5"	U
v6	4	#6	18'-6"	U
v7	87	#5	6'-10"	U

BAR BENDING DIAGRAMS

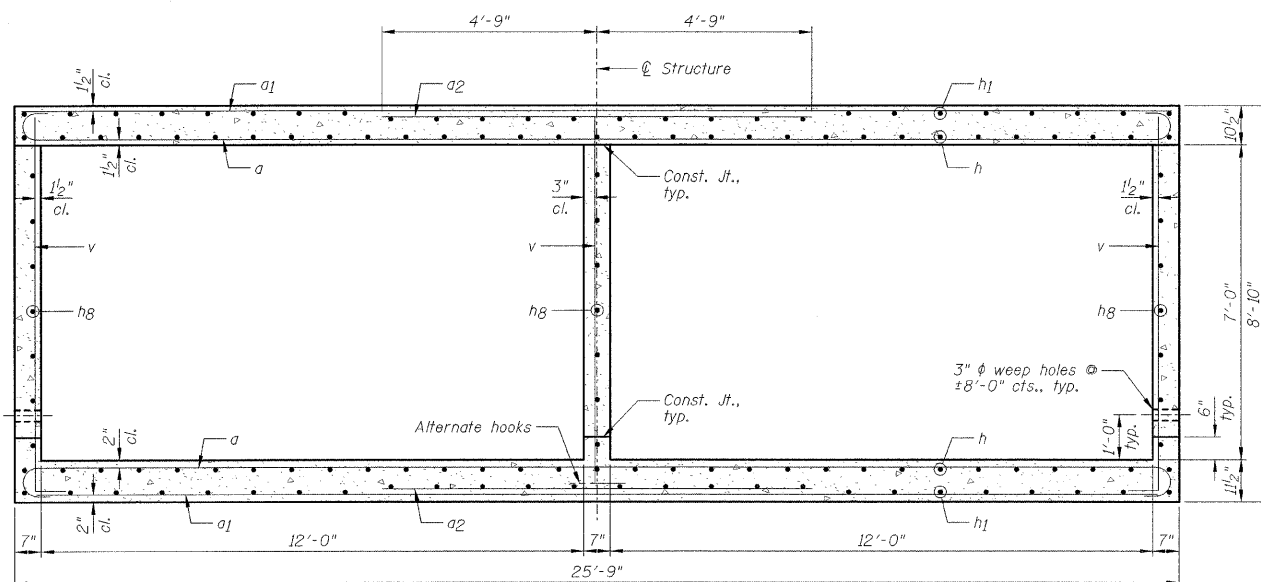


BAR CUTTING DIAGRAM



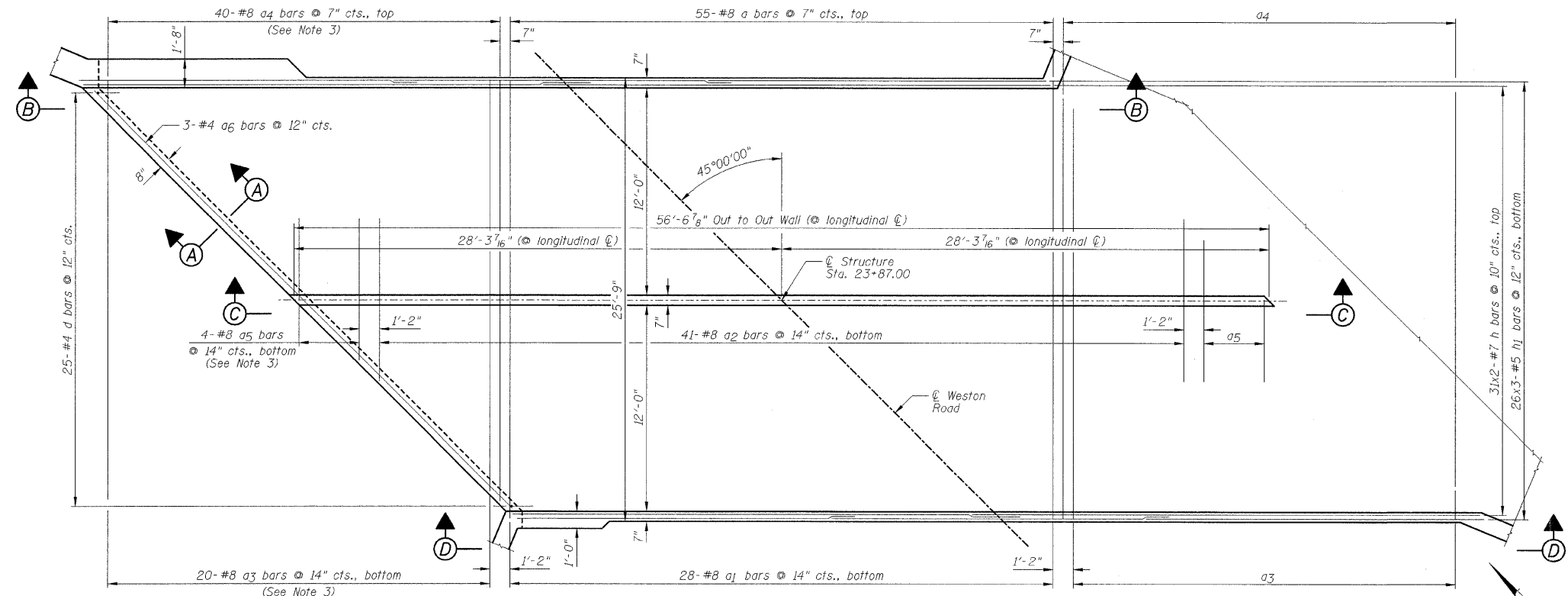
BAR	A	B	C	D	E	F	L
a3	23'-10"	1'-8"	23'-10"	1'-8"	2	20	25'-6"
a4	24'-5"	1'-8"	24'-5"	1'-8"	2	40	26'-1"
a5	8'-3"	4'-9"	8'-3"	4'-9"	2	4	13'-0"
a8	18'-7"	9'-1"	18'-7"	9'-1"	1	24	27'-8"
a9	18'-0"	9'-2"	18'-0"	9'-2"	1	5	27'-2"
a2	30'-5"	4'-11"	30'-5"	4'-11"	1	10	35'-4"
v1	12'-9"	8'-0"	12'-9"	8'-0"	1	10	20'-9"
v3	12'-9"	10'-10 3/8"	9'-11 3/8"	8'-1"	1	3	20'-10"
v4	10'-5"	8'-5"	8'-1"	6'-1"	1	7	16'-6"
v6	10'-5"	8'-6 3/4"	7'-11 1/4"	6'-1"	1	4	16'-6"

Note: "L" dimension does not take into account the hook length for the hooked bar a4, v4 and v6.

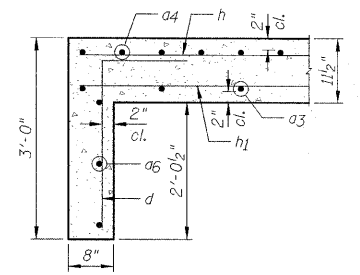


SECTION THRU CULVERT

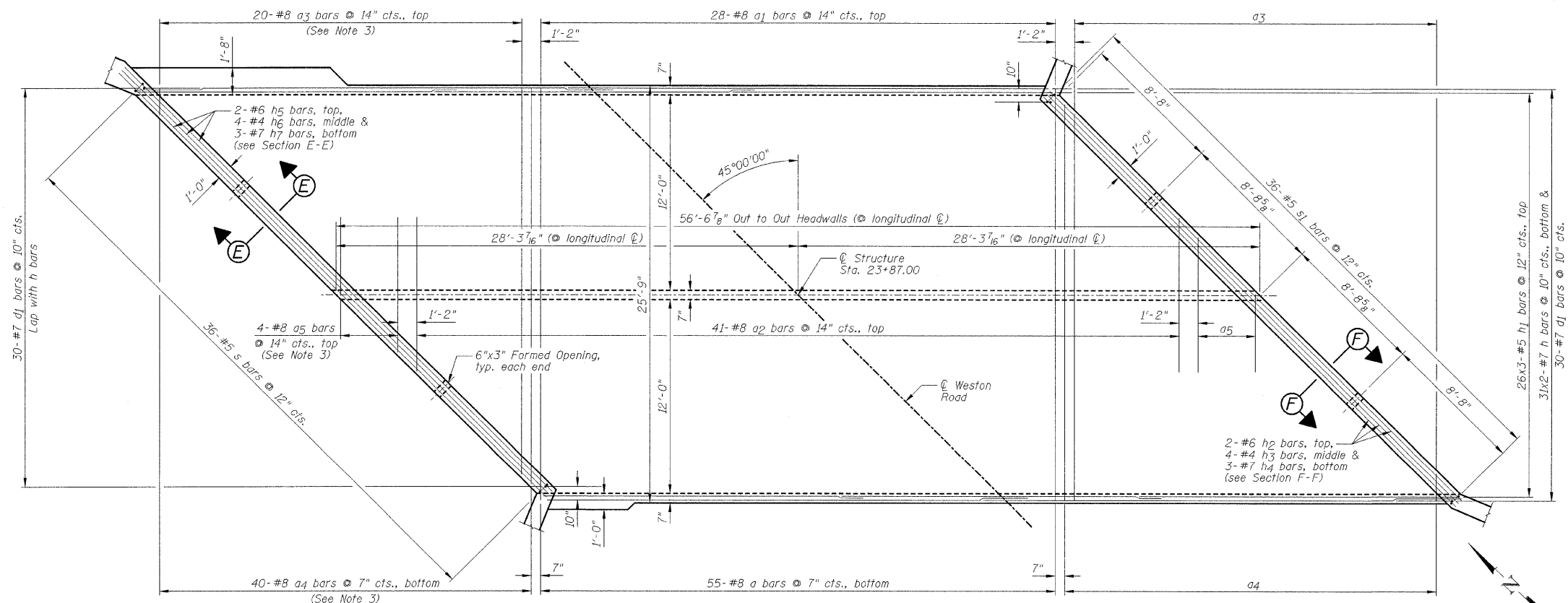
DESIGNED - JML	REVISIONS	LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS	GENERAL DATA		WESTON ROAD (C.H. 10) OVER HICKORY CREEK SECTION 09-00120-03-BR LIVINGSTON COUNTY STATION 23+87.00	F.A.S. 349	SECTION 09-00120-03-BR	COUNTY LIVINGSTON	TOTAL SHEETS 34	SHEET NO. 13	
DRAWN - DJM	REVISIONS		SCALE:	SHEET NO. A2 OF 11 SHEETS		STA. TO STA.	S.N. 053-5014		CONTRACT NO. 87412		
CHECKED - MSW	REVISIONS						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
DATE - 10/21/09	REVISIONS										



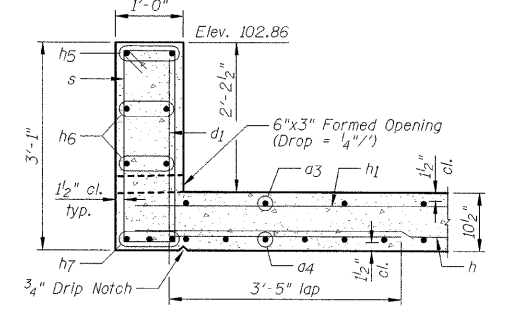
BOTTOM SLAB PLAN



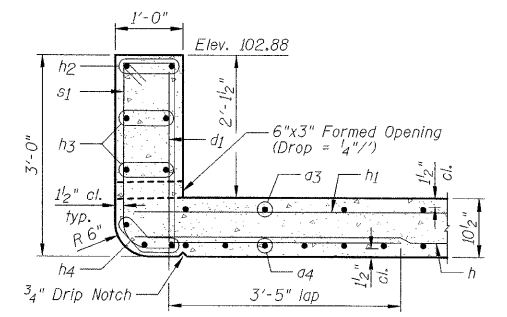
SECTION A-A



TOP SLAB PLAN



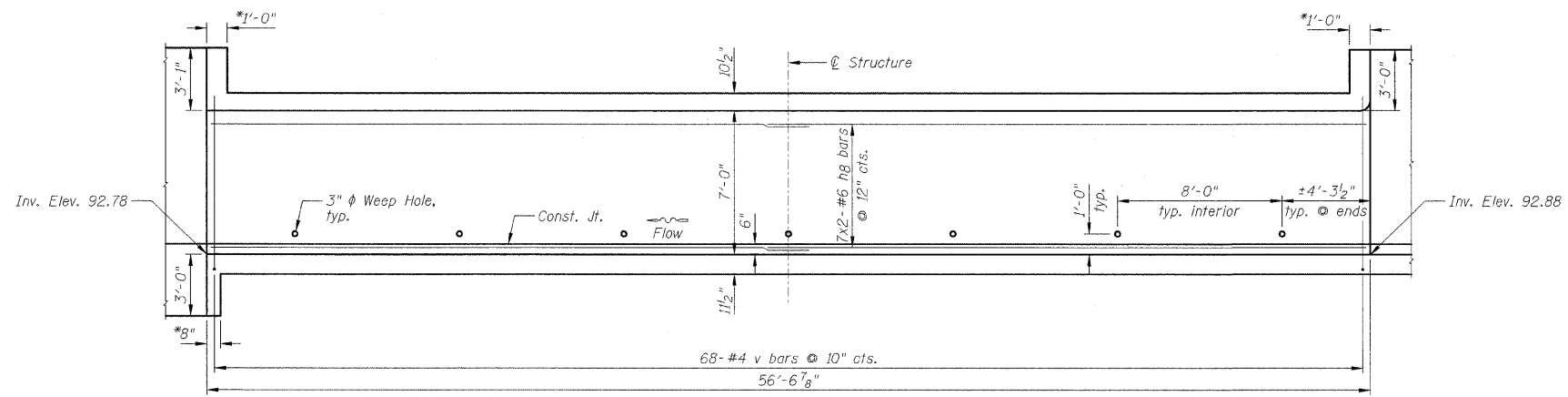
SECTION E-E



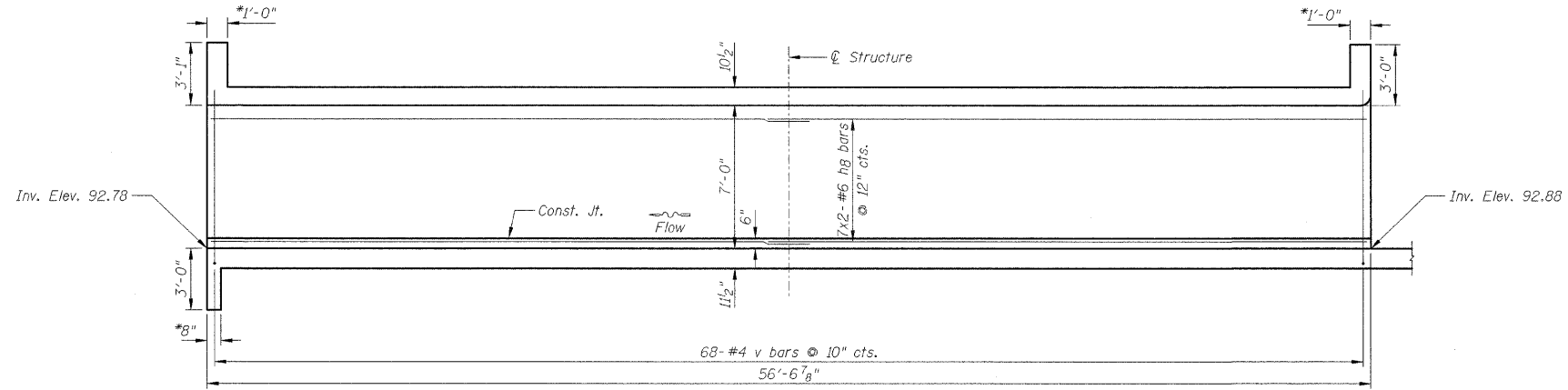
SECTION F-F

- NOTES:**
- 1.) For Bill of Material, see Sheet A2.
 - 2.) For bar lap length, see the General Notes on Sheet A2.
 - 3.) Order a3, a4 and a5 bars full length. Cut according to the Bar Cutting Diagram on Sheet A2. Use remainder of bars in opposite end of slab.
 - 4.) For View B-B thru View D-D, see Sheet A4.

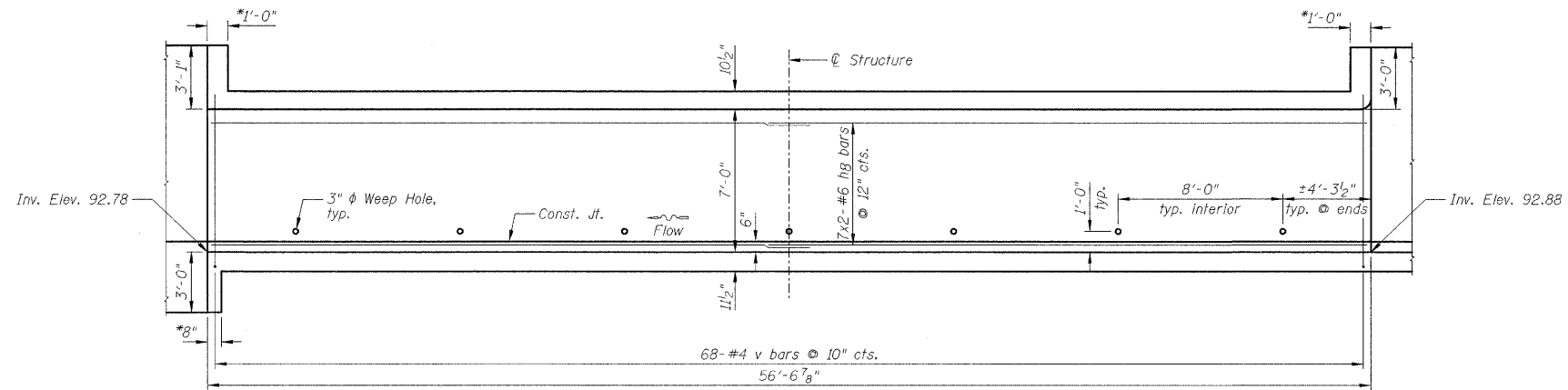
DESIGNED - JML	REVISED -	LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS	BOTTOM & TOP SLAB REINFORCEMENT PLANS		WESTON ROAD (C.H. 10) OVER HICKORY CREEK SECTION 09-00120-03-BR LIVINGSTON COUNTY STATION 23+87.00	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
DRAWN - DJM	REVISED -		SCALE:	SHEET NO. A3 OF 11 SHEETS		STA.	TO STA.	349	09-00120-03-BR	LIVINGSTON	34	14
CHECKED - MSW	REVISED -		FARNSWORTH GROUP, INC.			CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX		S.N. 053-5014		CONTRACT NO. 87412		
DATE - 10/21/09	REVISED -							ILLINOIS FED. AID PROJECT				



VIEW B-B



VIEW C-C



VIEW D-D

NOTES:

- 1.) For Bill of Material, see Sheet A2.
- 2.) For bar lap length, see the General Notes on Sheet A2.
- 3.) *Denotes horizontal dimension at right angle to roadway.
- 4.) For location View B-B thru View D-D, see Sheet A3.

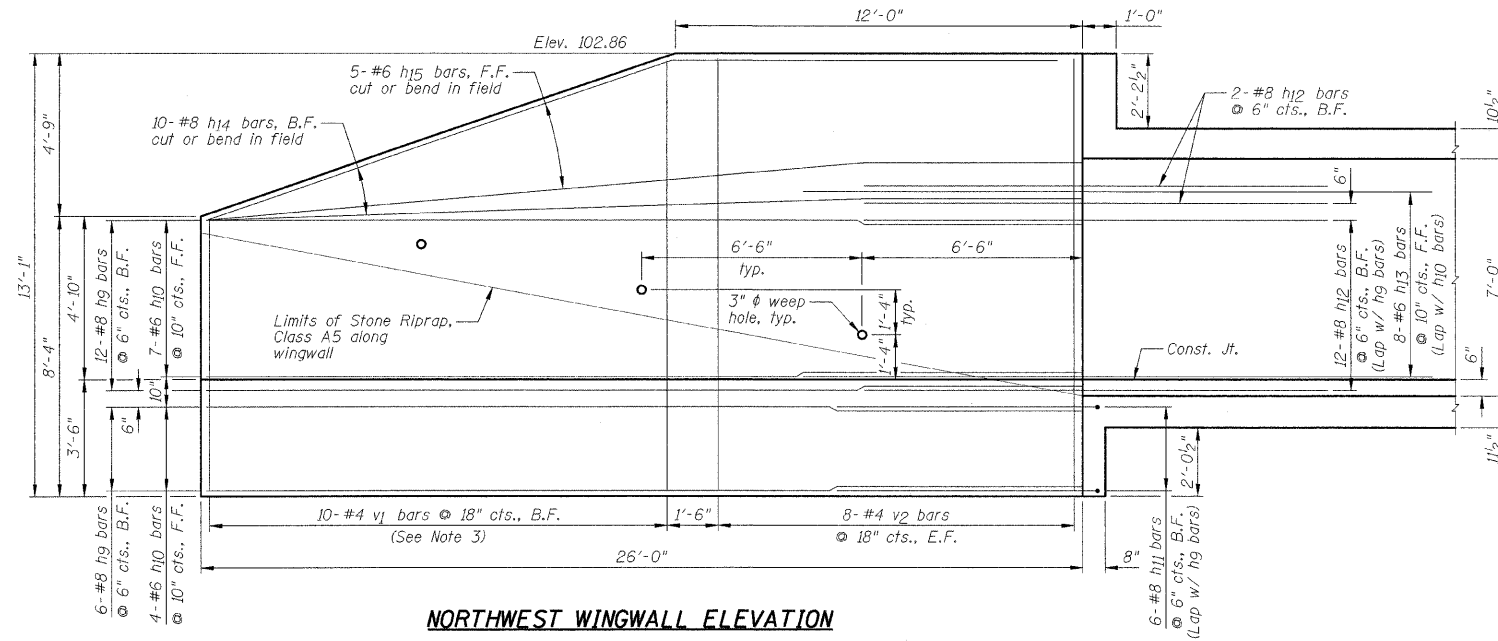
DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

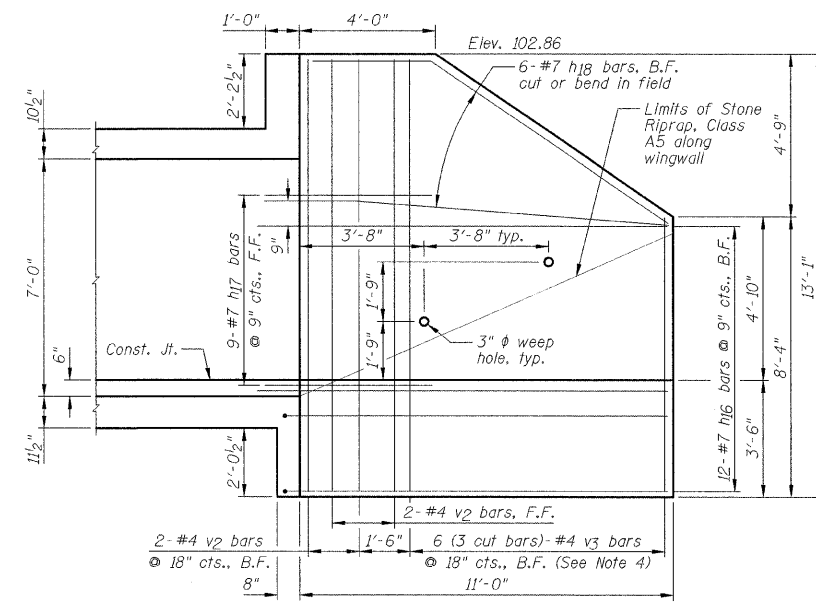
CULVERT WALL ELEVATIONS

WESTON ROAD (C.H. 10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON COUNTY
STATION 23+87.00

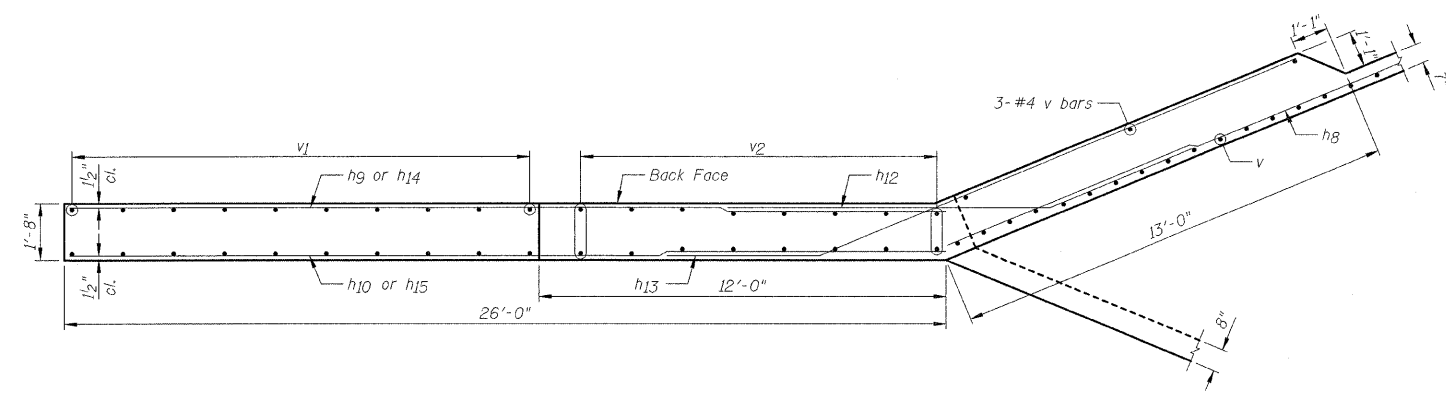
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	15
S.N. 053-5014		CONTRACT NO. 87412		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



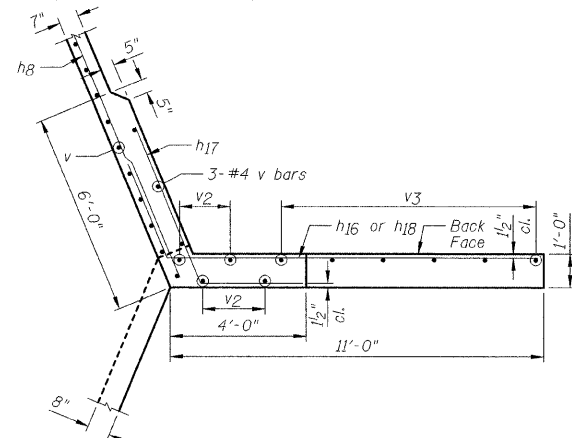
NORTHWEST WINGWALL ELEVATION



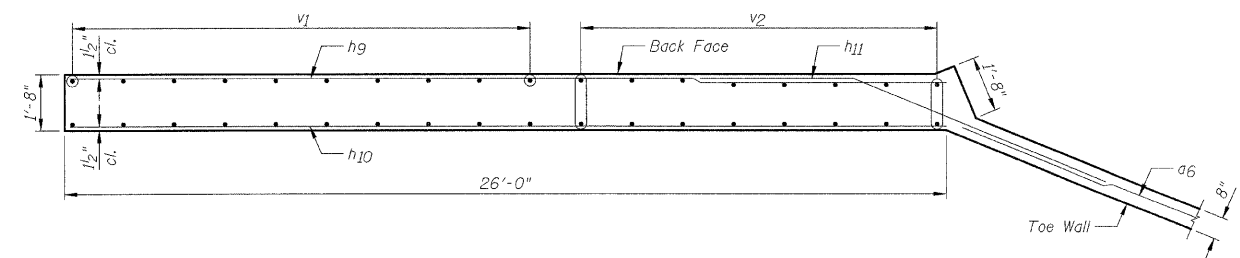
SOUTHWEST WINGWALL ELEVATION



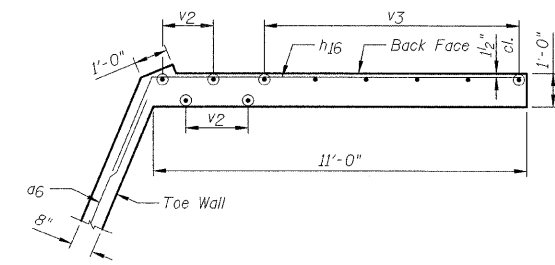
NORTHWEST WINGWALL UPPER PLAN



SOUTHWEST WINGWALL UPPER PLAN



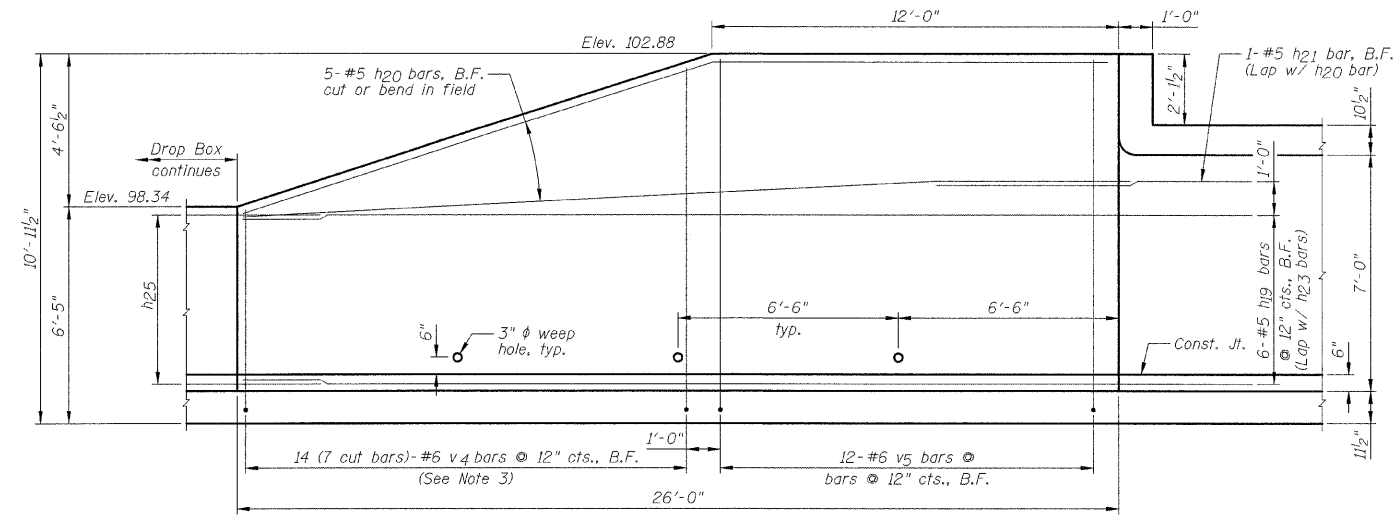
NORTHWEST WINGWALL LOWER PLAN



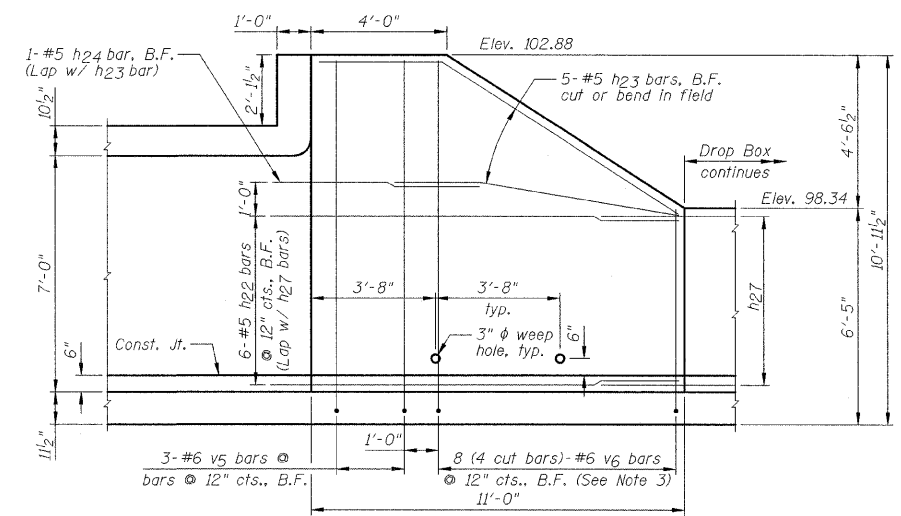
SOUTHWEST WINGWALL LOWER PLAN

- NOTES:**
- 1.) For Bill of Material, see Sheet A2.
 - 2.) For bar lap length, see the General Notes on Sheet A2.
 - 3.) Order v1 bars full length. Cut according to the Bar Cutting Diagram on Sheet A2. Use remainder of v1 bars in Front Face of the wingwall.
 - 4.) Order v3 bars full length. Cut according to the Bar Cutting Diagram on Sheet A2. Use all bars in the back face of the wingwall.

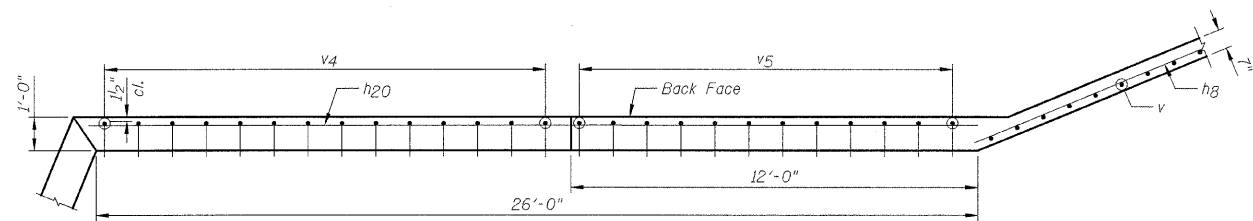
DESIGNED - JML	REVISED -	LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS	WINGWALL DETAILS		WESTON ROAD (C.H. 10) OVER HICKORY CREEK SECTION 09-00120-03-BR LIVINGSTON, COUNTY STATION 23+87.00	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
DRAWN - DJM	REVISED -		SCALE:	SHEET NO. A5 OF 11 SHEETS		STA.	TO STA.	349	09-00120-03-BR	LIVINGSTON	34	16
CHECKED - MSW	REVISED -		S.N. 053-5014			CONTRACT NO. 87412						
DATE - 10/21/09	REVISED -		FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT						



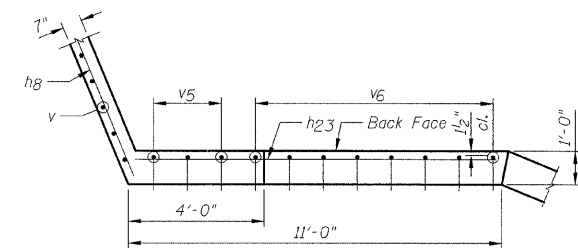
SOUTHEAST DROP BOX WALL ELEVATION



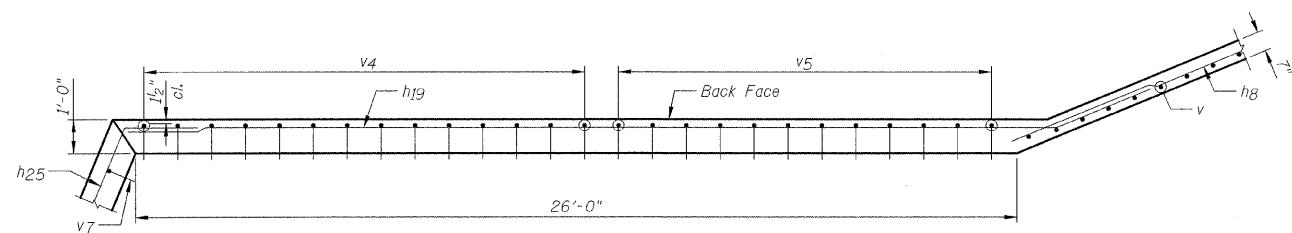
NORTHEAST DROP BOX WALL ELEVATION



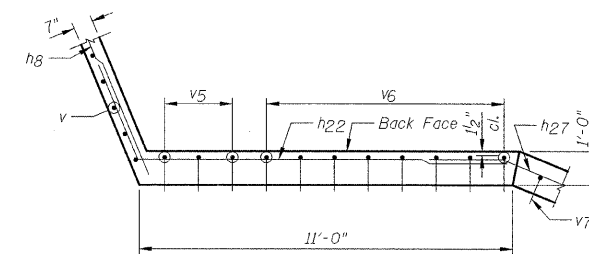
SOUTHEAST DROP BOX WALL UPPER PLAN



NORTHEAST DROP BOX WALL UPPER PLAN



SOUTHEAST DROP BOX WALL LOWER PLAN



NORTHEAST DROP BOX WALL LOWER PLAN

NOTES:

- 1.) For Bill of Material, see Sheet A2.
- 2.) For bar lap length, see the General Notes on Sheet A2.
- 3.) Order v4 and v6 bars full length. Cut according to the Bar Cutting Diagram on Sheet A2. Use all bars in the back face of the wall.

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

DROP BOX DETAILS

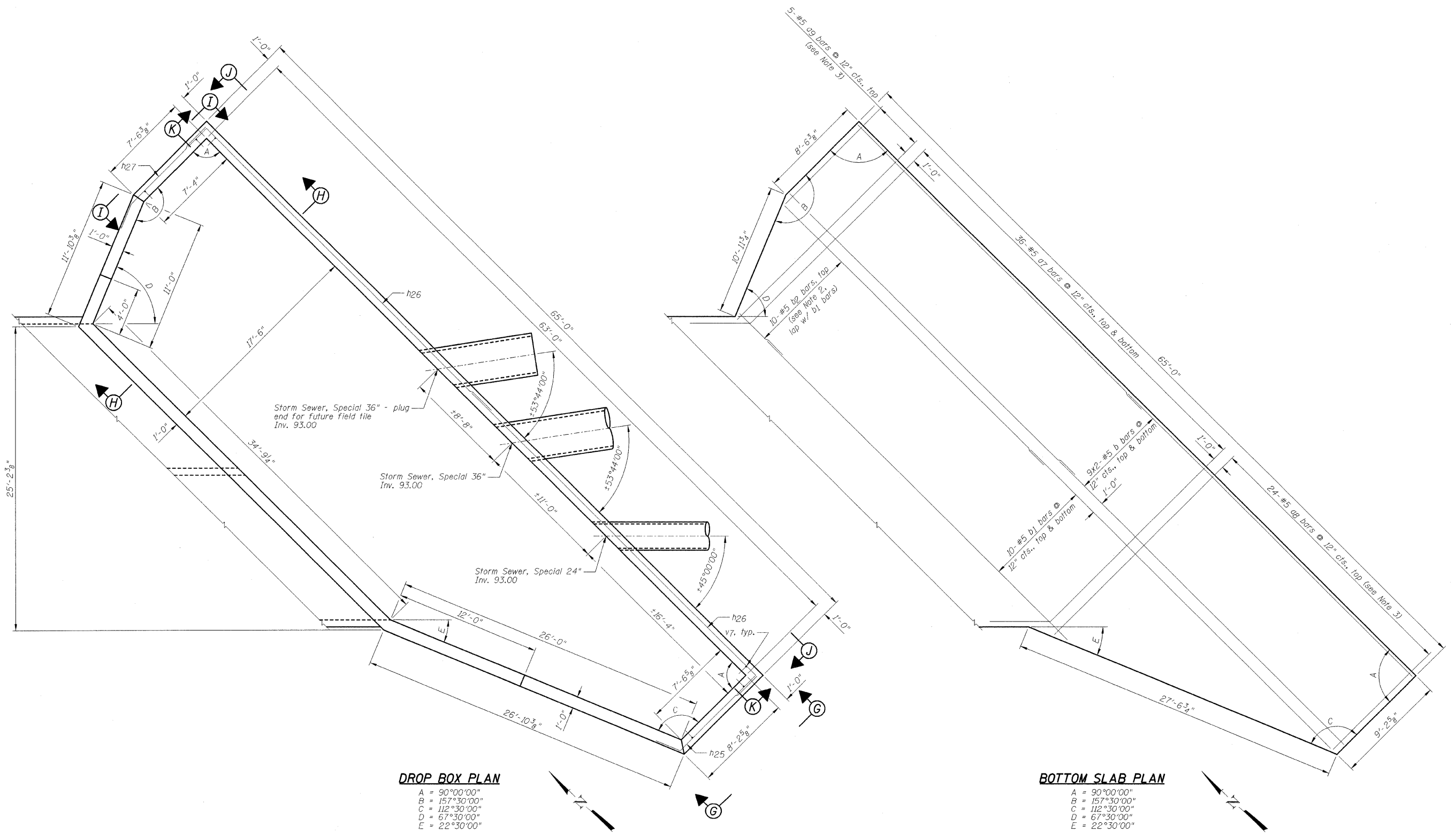
**WESTON ROAD (C.H.10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON, COUNTY
STATION 23+87.00**

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	17
S.N. 053-5014		CONTRACT NO. 87412		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

24-8255



- NOTES:**
- 1.) For Bill of Material, see Sheet A2.
 - 2.) For bar lap length, see the General Notes on Sheet A2.
 - 3.) Order 9g and 9g bars full length. Cut according to the Bar Cutting Diagram on Sheet A2. Use remainder of bars in the opposite reinforcement mat.

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

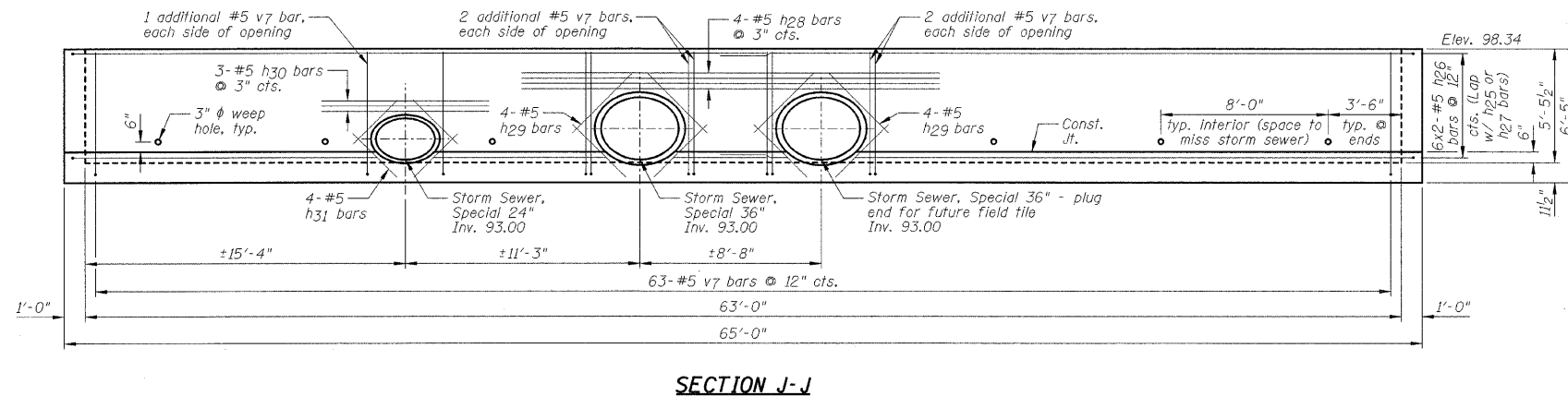
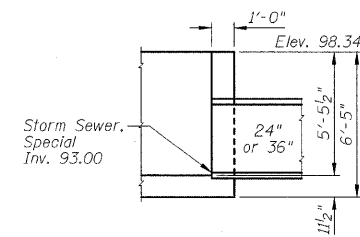
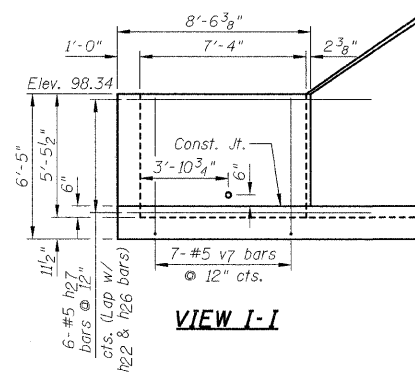
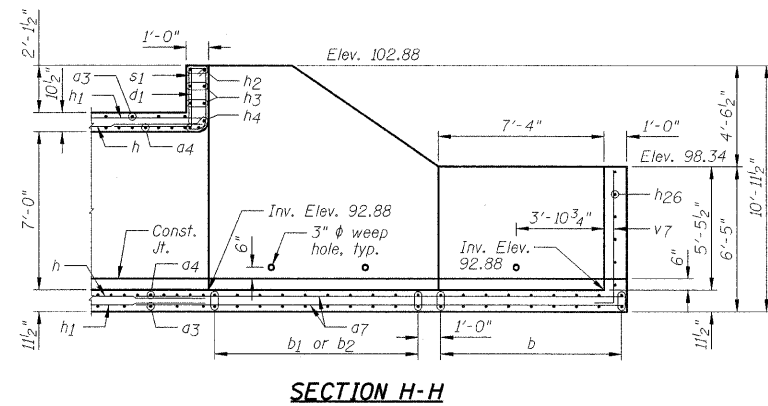
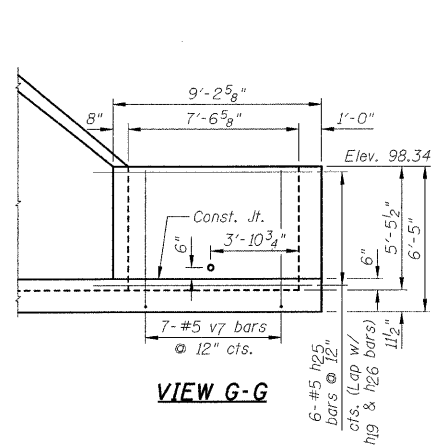
LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

DROP BOX DETAILS

SCALE: SHEET NO. A7 OF 11 SHEETS STA. TO STA.

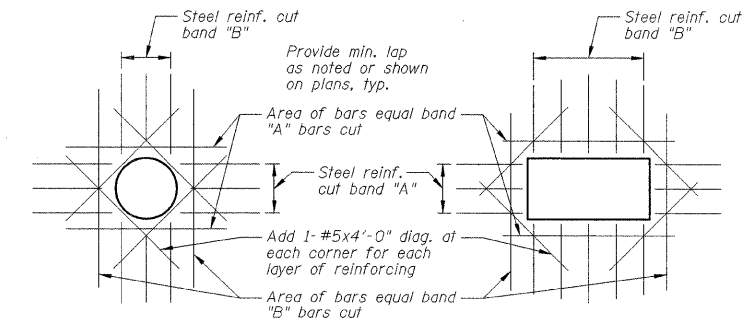
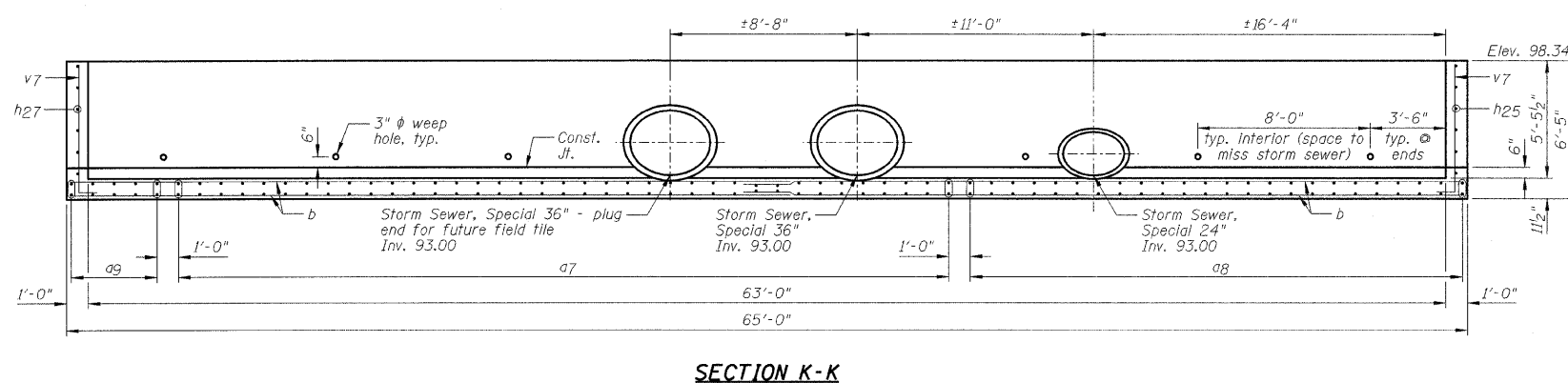
WESTON ROAD (C.H. 10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON COUNTY
STATION 23+87.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	18
S.N. 053-5014		CONTRACT NO. 87412		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



Hc		Lc	
BAR SIZE	LENGTH	BAR SIZE	LENGTH
4	8"	4	1'-9"
5	10"	5	2'-2"
6	1'-0"	6	2'-8"
7	1'-2"	7	3'-9"
8	1'-4"	8	4'-2"
9	1'-7"	9	4'-8"
10	1'-10"	10	5'-3"
11	2'-0"	11	5'-8"

CORNER BAR DETAIL
Corner bars are required at all corner locations.



TYPICAL REINFORCING AROUND OPENINGS DETAIL

NOTES:

- 1.) For Bill of Material, see Sheet A2.
- 2.) For bar lap length, see the General Notes on Sheet A2.

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

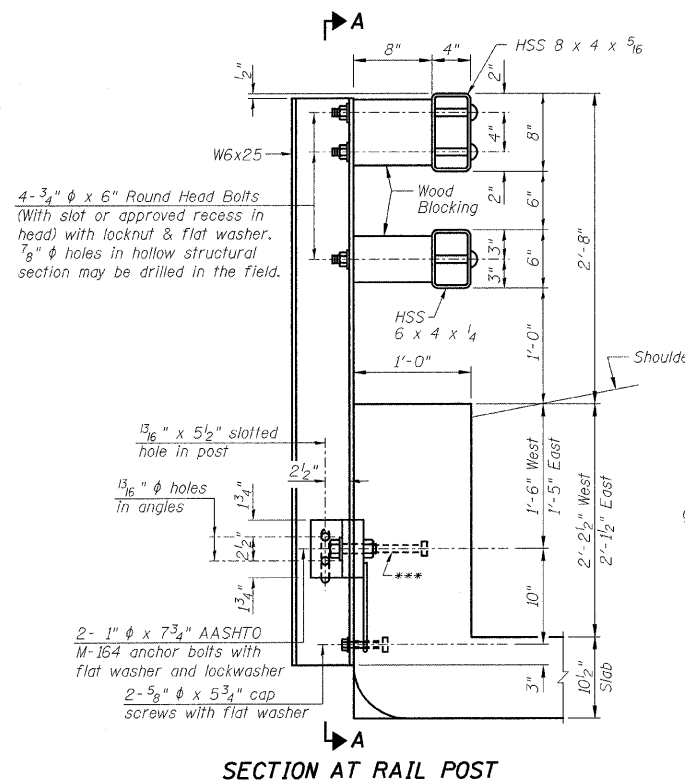
LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

DROP BOX DETAILS

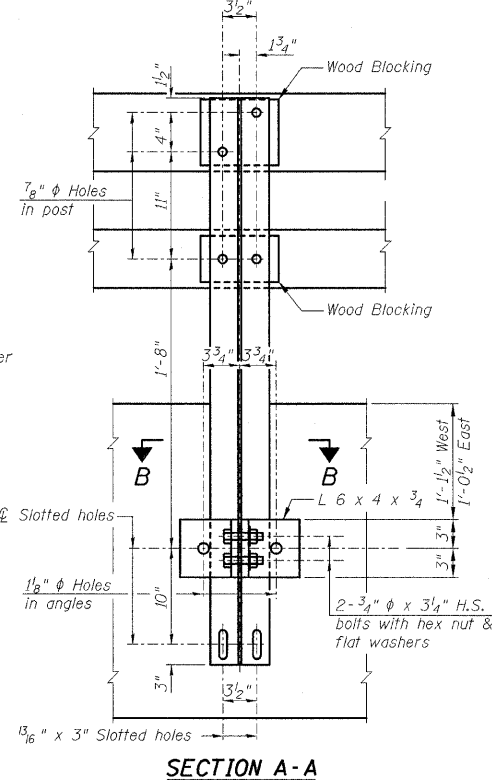
SCALE: SHEET NO. A8 OF 11 SHEETS STA. TO STA.

WESTON ROAD (C.H. 10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON COUNTY
STATION 23+87.00

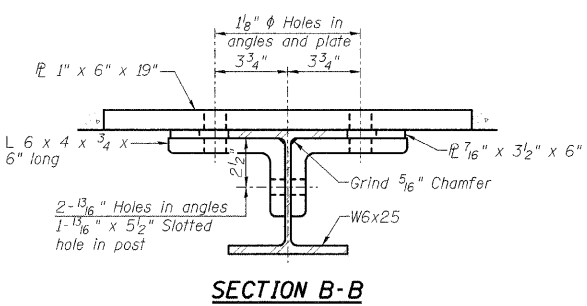
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349	09-00120-03-BR	LIVINGSTON	34	19
S.N. 053-5014		CONTRACT NO. 87412		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



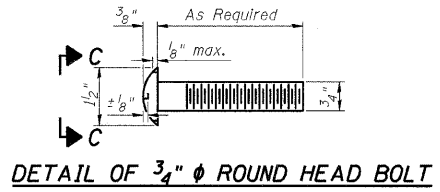
SECTION AT RAIL POST



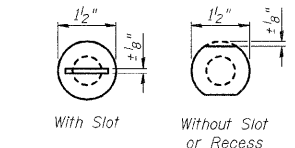
SECTION A-A



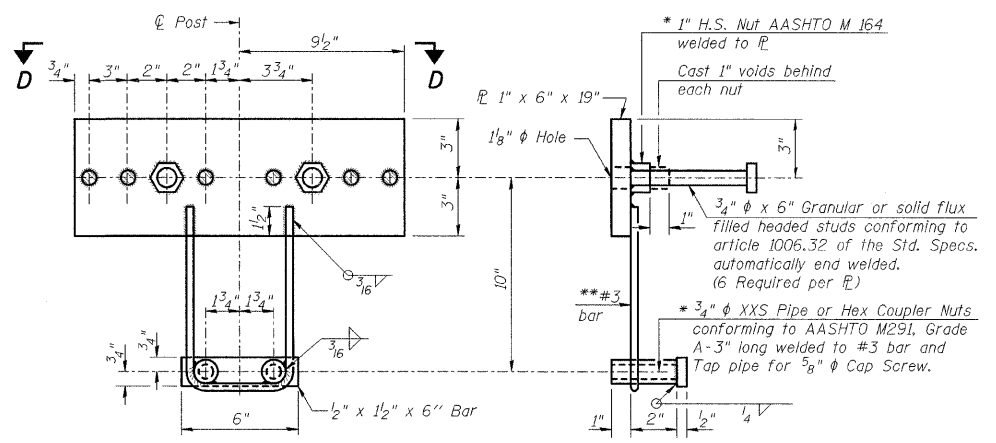
SECTION B-B



DETAIL OF 3/4\"/>

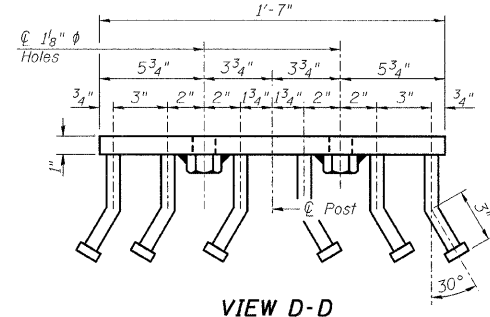


VIEW C-C

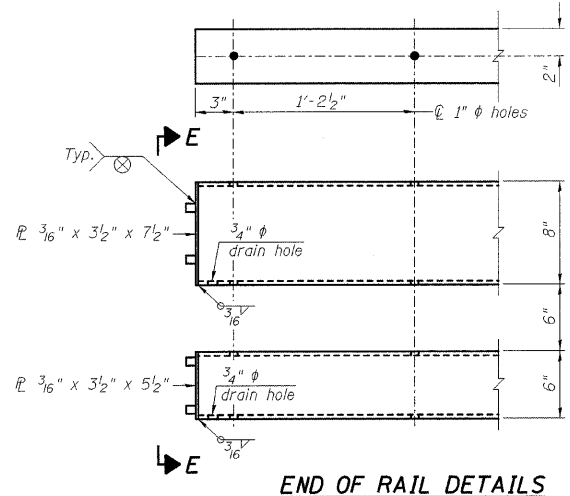


ANCHOR DEVICE

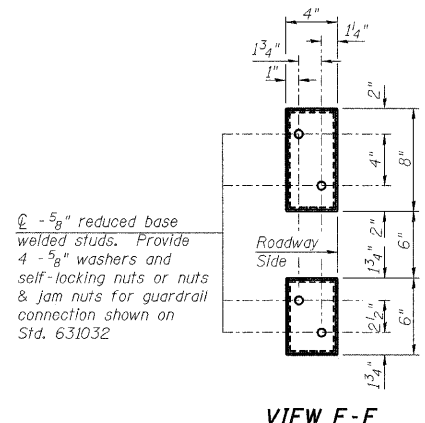
* Threaded areas shall be plugged or blocked off during casting of the headwall. Galvanized after concrete placement.
 ** Whenever the lower insert assemblies interfere with reinforcement locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 2".



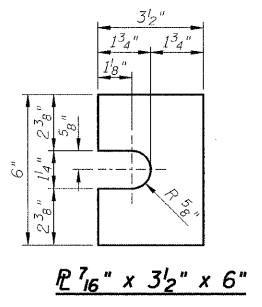
VIEW D-D



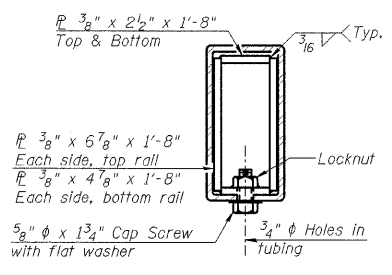
END OF RAIL DETAILS



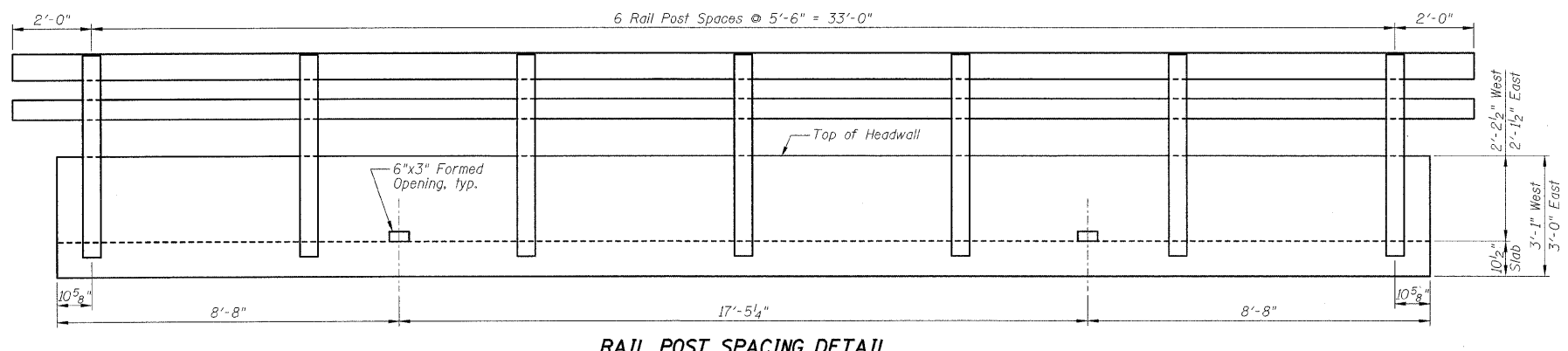
VIEW E-E



PLAN-BOTT. SPLICE P TYPICAL



SECTION AT RAIL SPLICE



RAIL POST SPACING DETAIL

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	74

NOTES:

- 1.) All field drilled holes shall be coated with an approved zinc rich paint before erection.
- 2.) All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

STEEL RAILING, TYPE SM
 SCALE: SHEET NO. A9 OF 11 SHEETS STA. TO STA.

WESTON ROAD (C.H. 10) OVER HICKORY CREEK
 SECTION 09-00120-03-BR
 LIVINGSTON COUNTY
 STATION 23+87.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	20
S.N. 053-5014		CONTRACT NO. 87412		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG
Sheet 1 of 2

Client: Farnsworth Group, Inc.
Project Name: Weston Road, (C.H. 10) S.N.: 053-3440
Project Site: Livingston Co. Eppards Point Twp.
Section No.: 09-00120-03-BR

Boring No. B-1
Surface Elev. 103.03
Auger Depth 31.00 Rotary Depth NA
Start Date 04/18/09 Finish Date 04/18/09

Location: Station: 23 + 61 12' RT

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Auger Log	Depth in feet	SAMPLES						DRILLED BY		REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	Randy Safirnski Diedrich D-120	
103.03												
102.03	Loose Stone over Gravel Fill		1									
101.03			2									
100.03			3	1	SS	---	10	---	10			
99.03			4									
98.03	Stiff Black Silty Clay		5	2	SS	1.0	10	B	26			
97.03			6									
96.03	Soft Gray Silty Clay		7									
95.03			8	3	SS	0.4	4	B	30			
94.03	Medium Dense Brown/Gray Fine Sand		9									
93.03			10	4	SS	---	16	---	22		Water	
92.03	Loose/Medium Dense Gray Clayey Silt		11									
91.03			12									
90.03			13	5	SS	---	8	---	20			
89.03			14									
88.03	Medium Dense Gray Gravely Clay with Limestone Fragments		15	6	SS	---	28	---	16			
87.03			16									
86.03			17									
85.03			18	7	SS	---	16	---	8			
84.03	Medium Dense Gray Fine Sand		19									
83.03			20	8	SS	---	21	---	8			

Groundwater Data: Water after auger removal 10-feet below top of ground.
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG
Sheet 2 of 2

Client: Farnsworth Group, Inc.
Project Name: Weston Road, (C.H. 10) S.N.: 053-3440
Project Site: Livingston Co. Eppards Point Twp.
Section No.: 09-00120-03-BR

Boring No. B-1
Surface Elev. 103.03
Auger Depth 31.00 Rotary Depth NA
Start Date 04/18/09 Finish Date 04/18/09

Location: Station: 23 + 61 12' RT

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Auger Log	Depth in feet	SAMPLES						DRILLED BY		REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	Randy Safirnski Diedrich D-120	
82.03												
81.03	Medium Dense Gray Fine Sand		22									
80.03			23	9	SS	---	28	---	10			
79.03			24									
78.03			25	10	SS	6.0	31	S	11			
77.03	Hard Gray Silty Clay Till		26									
76.03			27									
75.03			28	11	SS	6.0	32	S	12			
74.03			29									
73.03			30	12	SS	7.2	34	S	12			
72.03			31									
71.03	Bottom of Boring		32									
70.03			33									
69.03			34									
68.03			35									
67.03			36									
66.03			37									
65.03			38									
64.03			39									
63.03			40									
62.03			41									

Groundwater Data: Water after auger removal 10-feet below top of ground.
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG
Sheet 1 of 2

Client: Farnsworth Group, Inc.
Project Name: Weston Road, (C.H. 10) S.N.: 053-3440
Project Site: Livingston Co. Eppards Point Twp.
Section No.: 09-00120-03-BR

Boring No. B-2
Surface Elev. 103.12
Auger Depth 31.00 Rotary Depth NA
Start Date 04/18/09 Finish Date 04/18/09

Location: Station: 24 + 31 12' LT

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Grapple Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
103.12									Randy Safranski Diedrich D-120		
102.12	Loose Stone over Gravel Fill		1								
101.12	Medium Stiff Brown Silty Clay Fill		2	1	SS	0.6	5	B	19		
100.12			3								
99.12	Medium Stiff Black Silty Clay		4								
98.12			5	2	SS	0.8	7	B	23		
97.12	Soft Brown/Gray Silty Clay with wood fragments		6								
96.12			7								
95.12			8	3	SS	0.4	5	B	22		
94.12			9								
93.12	Medium Dense Gray Clayey Silt		10	4	SS	---	12	---	21	Water	
92.12			11								
91.12			12								
90.12			13	5	SS	---	14	---	20		
89.12	Medium Dense Gray Coarse Gravel		14								
88.12			15	6	SS	---	21	---	9		
87.12			16								
86.12			17								
85.12			18	7	SS	---	17	---	12		
84.12	Medium Dense Gray Fine Sand & Silt		19								
83.12			20	8	SS	---	16	---	15		

Groundwater Data: Water after auger removal 10-feet below top of ground.
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG
Sheet 2 of 2

Client: Farnsworth Group, Inc.
Project Name: Weston Road, (C.H. 10) S.N.: 053-3440
Project Site: Livingston Co. Eppards Point Twp.
Section No.: 09-00120-03-BR

Boring No. B-2
Surface Elev. 103.12
Auger Depth 31.00 Rotary Depth NA
Start Date 04/18/09 Finish Date 04/18/09

Location: Station: 24 + 31 12' LT

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Grapple Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
82.12									Randy Safranski Diedrich D-120		
81.12	Medium Dense Gray Fine Sand & Silt		22								
80.12			23	9	SS	---	20	---	14		
79.12			24								
78.12			25								
77.12	Hard Gray Silty Clay Till		26	10	SS	4.5	30	S	12		
76.12			27								
75.12			28	11	SS	4.6	31	S	13		
74.12			29								
73.12			30								
72.12			31	12	SS	6	33	S	13		
71.12	Bottom of Boring		32								
70.12			33								
69.12			34								
68.12			35								
67.12			36								
66.12			37								
65.12			38								
64.12			39								
63.12			40								
62.12			41								

Groundwater Data: Water after auger removal 10-feet below top of ground.
Comments:

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

SOIL BORING LOGS

SCALE: SHEET NO. 111 OF 11 SHEETS STA. TO STA.

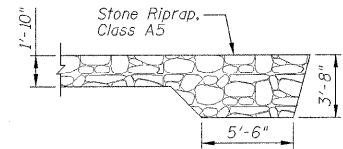
WESTON ROAD (C.H. 10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON COUNTY
STATION 23+87.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	22
S.N. 053-5014		CONTRACT NO. 87412		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

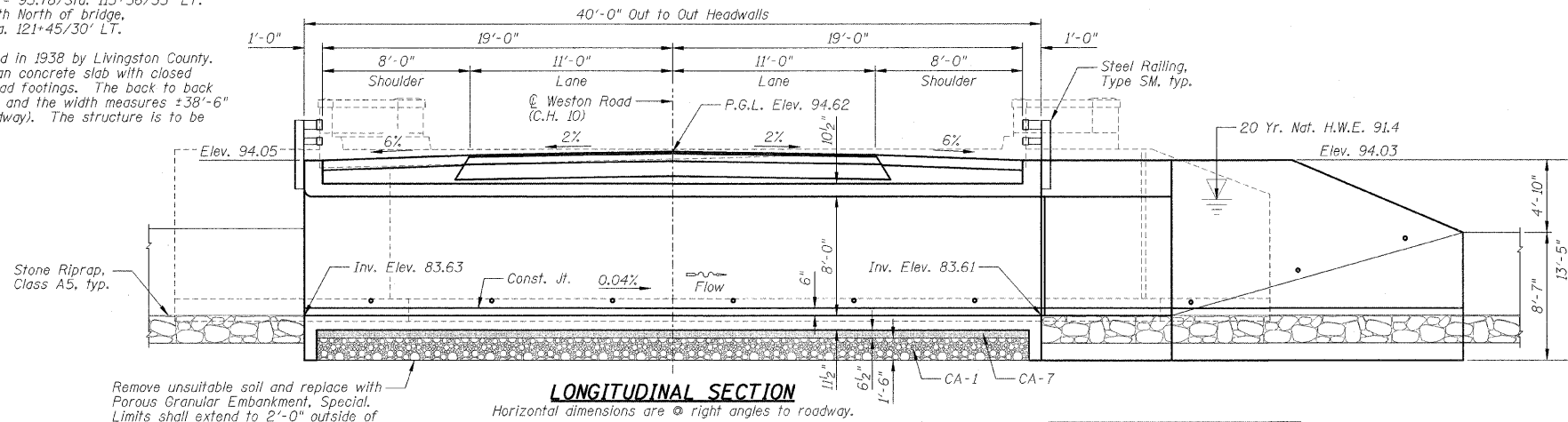
Benchmarks: #641, set CPS East side of power pole, 1st North of bridge, +60' North, West side of C.H. 10, Elevation = 93.78/Sta. 115+56/35' LT.
 #645, set CPS West side of power pole, 4th North of bridge, West side of C.H. 10, Elevation = 92.20/Sta. 121+45/30' LT.

Existing Structure: SN 053-3441 was originally constructed in 1938 by Livingston County. The structure consists of a single span concrete slab with closed concrete abutments supported by spread footings. The back to back abutment dimension measures +22'-6" and the width measures +38'-6" (dimensions are @ right angles to roadway). The structure is to be replaced using road closure.

No Salvage.



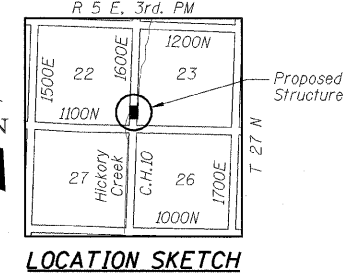
SECTION A-A



LONGITUDINAL SECTION

Remove unsuitable soil and replace with Porous Granular Embankment, Special. Limits shall extend to 2'-0" outside of the culvert barrel walls.

Horizontal dimensions are @ right angles to roadway.



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 9.0 Sq. Mi.		Low Grade Elev. 94.26 ft. @ Sta. 114+00.00				
Flood Yr.	Freq.	C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
Design	20	1029	110	192	2.6	94.0
Base	100	1540	110	192	4.6	97.2
Overtopping						
Max. Calc.						

STATION 115+00.00
 BUILT 20... BY
 LIVINGSTON COUNTY
 F.A.S. RTE. 349
 SECTION 09-00120-03-BR
 LOADING HS25
 STR. NO. 053-5015

NAME PLATE
 See Standard 515001

DESIGN SPECIFICATIONS

AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES

Cast-in-Place Concrete (Field Units)
 f'c = 4,000 psi @ 14 days
 fy = 60,000 psi (Reinforcement)

LOADING HS25

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

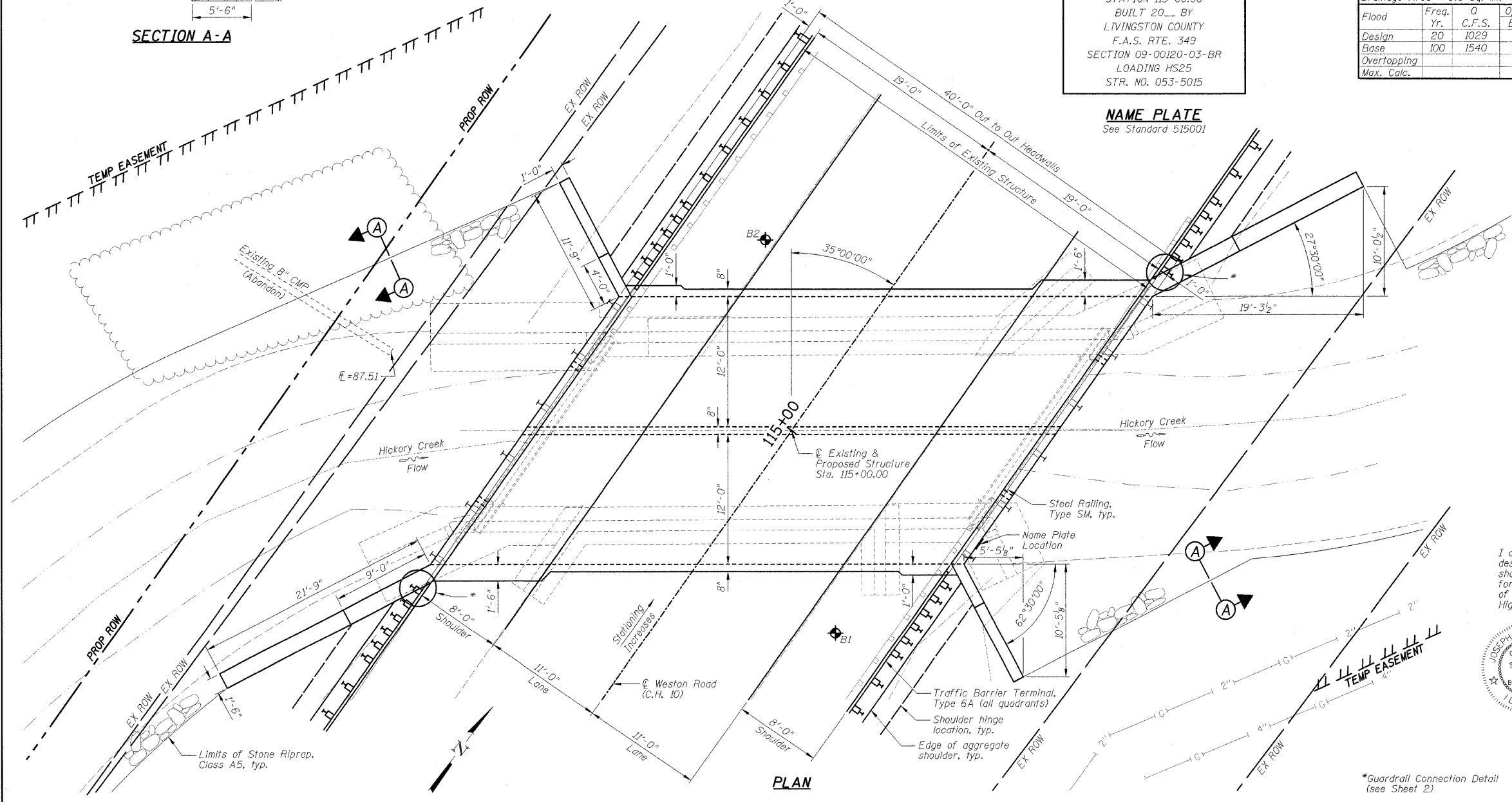
INDEX TO SHEETS

SHEET NO.	TITLE
B1	GENERAL PLAN AND ELEVATION
B2	GENERAL DATA
B3	BOTTOM & TOP SLAB REINFORCEMENT PLANS
B4	CULVERT WALL ELEVATIONS
B5	WINGWALL DETAILS
B6	STEEL RAILING, TYPE SM
B7-B8	SOIL BORING LOGS

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
 JOSEPH M. LOWRANCE
 ILLINOIS STRUCTURAL ENGINEER
 NO. 081-006446
 Exp. Date 11/30/10



PLAN

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

GENERAL PLAN AND ELEVATION

WESTON ROAD (C.H. 10) OVER HICKORY CREEK
 SECTION 09-00120-03-BR
 LIVINGSTON COUNTY
 STATION 115+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS NO.
349	09-00120-03-BR	LIVINGSTON	34 23
S.N. 053-5015		CONTRACT NO. 87412	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

SCALE: SHEET NO. B1 OF 8 SHEETS STA. TO STA.

*Guardrail Connection Detail (see Sheet 2)

P.G.L. denotes Profile Grade Line.

GENERAL NOTES

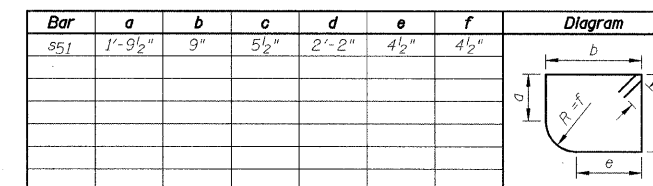
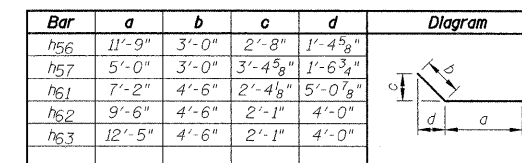
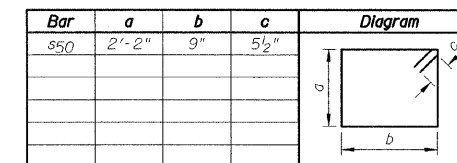
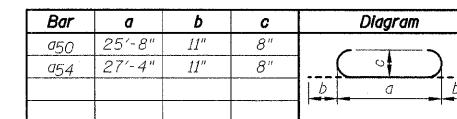
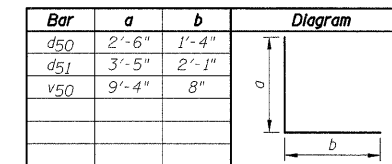
- At least 6'-0" of this culvert barrel shall be poured monolithically with the wingwalls.
- Exposed edges shall be beveled 3/4".
- Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60. See Special Provision.
- For backfilling and embankment, see standard specifications and roadway plans.
- 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".
- 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.
- B.F. denotes Back Face and F.F. denotes Front Face.
- There will be no additional compensation should any reinforcement need to be cut or bent in the field.
- Where called for, construction joints shall be bonded in accordance with section 503.09 (b) of the Standard Specifications.
- Layout of the Slope Protection System may be varied to suit ground conditions in the field as directed by the Engineer.
- Minimum bar lap lengths are as follows, unless noted otherwise.

Barrels:	Bar Size	Min. Lap length	Wingwalls:	Bar Size	Min. Lap Length
	#4	1'-4"		#4	1'-4"
	#5	1'-8"		#5	2'-2"
	#6	2'-0"		#7	3'-5"
	#7	2'-9"		#8	4'-6"
	#8	3'-8"		#9	5'-9"
- Precast concrete box culverts will not be allowed.
- The pay item "Removal and Disposal of Unsuitable Material" shall include the excavation of unsuitable material for a depth of 2'-0 1/2" below the structure for a width of approximately 30'-0" within the limits of the toewalls as shown on the plans. The actual quantity shall be determined in the field by the Engineer.
- The pay item "Porous Granular Embankment, Special" shall include the placement of CA-1 and CA-7 below the structure for a width of approximately 30'-0" within the limits of the toewalls as shown on the plans. The actual quantity shall be determined in the field by the Engineer.

TOTAL BILL OF MATERIAL

ITEMS	UNITS	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	111
Porous Granular Embankment, Special	Cu. Yd.	108
Stone Riprap, Class A5	Sq. Yd.	705
Paved Ditch Removal	Foot	255
Removal of Existing Structures No. 2	Each	1
Reinforcement Bars	Pound	41,350
Steel Railing, Type SM	Foot	66
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	169.2

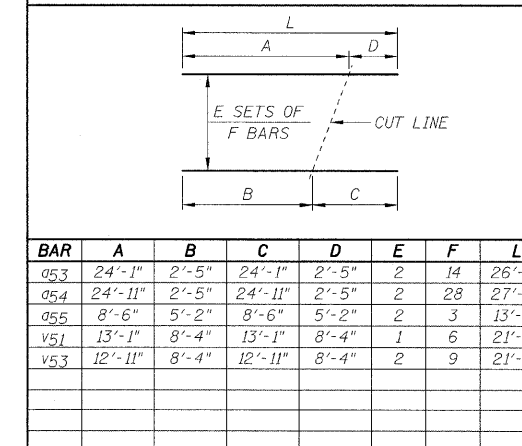
BAR BENDING DIAGRAMS



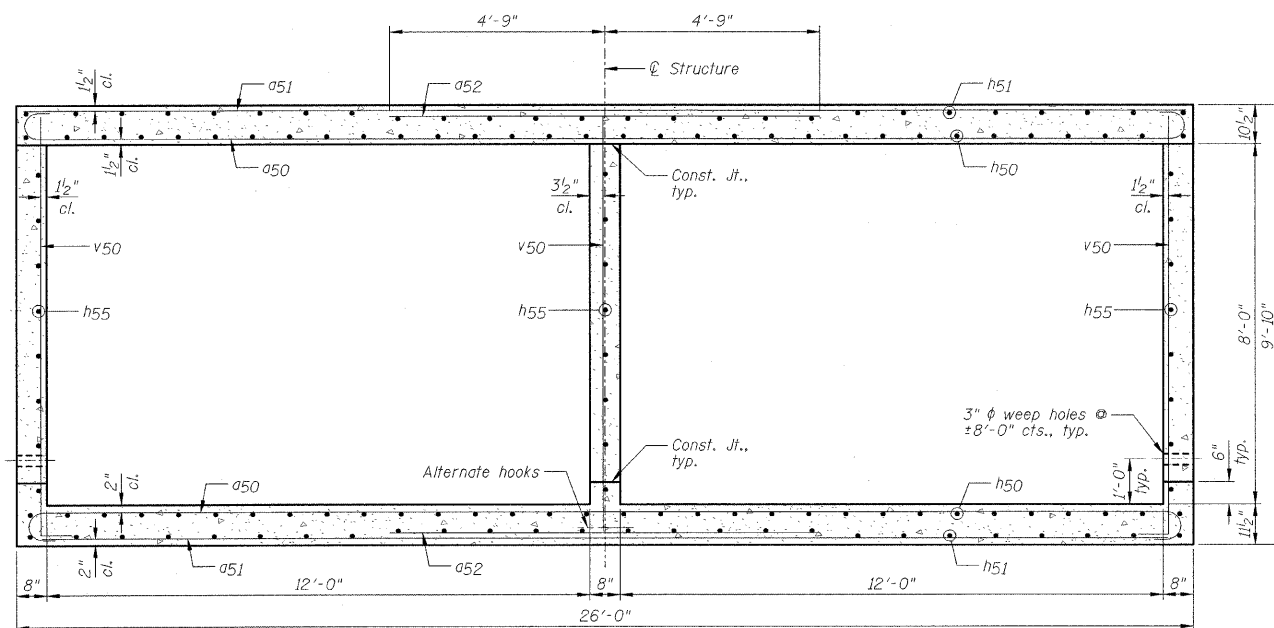
BAR LIST

Bar	No.	Size	Length	Shape
d50	106	#8	27'-6"	U
d51	54	#8	25'-8"	U
d52	72	#8	9'-6"	U
d53	28	#8	26'-6"	U
d54	56	#8	29'-2"	U
d55	6	#8	13'-8"	U
d56	6	#4	29'-8"	U
d50	50	#4	3'-10"	U
d51	62	#7	5'-6"	U
h50	128	#7	25'-7"	U
h51	156	#5	17'-3"	U
h52	4	#6	32'-0"	U
h53	4	#4	32'-0"	U
h54	4	#8	32'-0"	U
h55	48	#6	25'-3"	U
h56	22	#8	14'-9"	U
h57	20	#8	8'-0"	U
h58	12	#8	12'-10"	U
h59	24	#8	21'-7"	U
h60	18	#6	21'-7"	U
h61	8	#8	11'-8"	U
h62	22	#8	14'-0"	U
h63	14	#6	16'-11"	U
h64	14	#8	22'-4"	U
h65	10	#6	22'-4"	U
s50	32	#5	6'-9"	U
s51	32	#5	6'-7"	U
v50	189	#4	10'-0"	U
v51	6	#4	21'-5"	U
v52	32	#4	13'-1"	U
v53	18	#4	21'-3"	U

BAR CUTTING DIAGRAM



Note: "L" dimension does not take into account the hook length for the hooked bars d54.



SECTION THRU CULVERT

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

GENERAL DATA

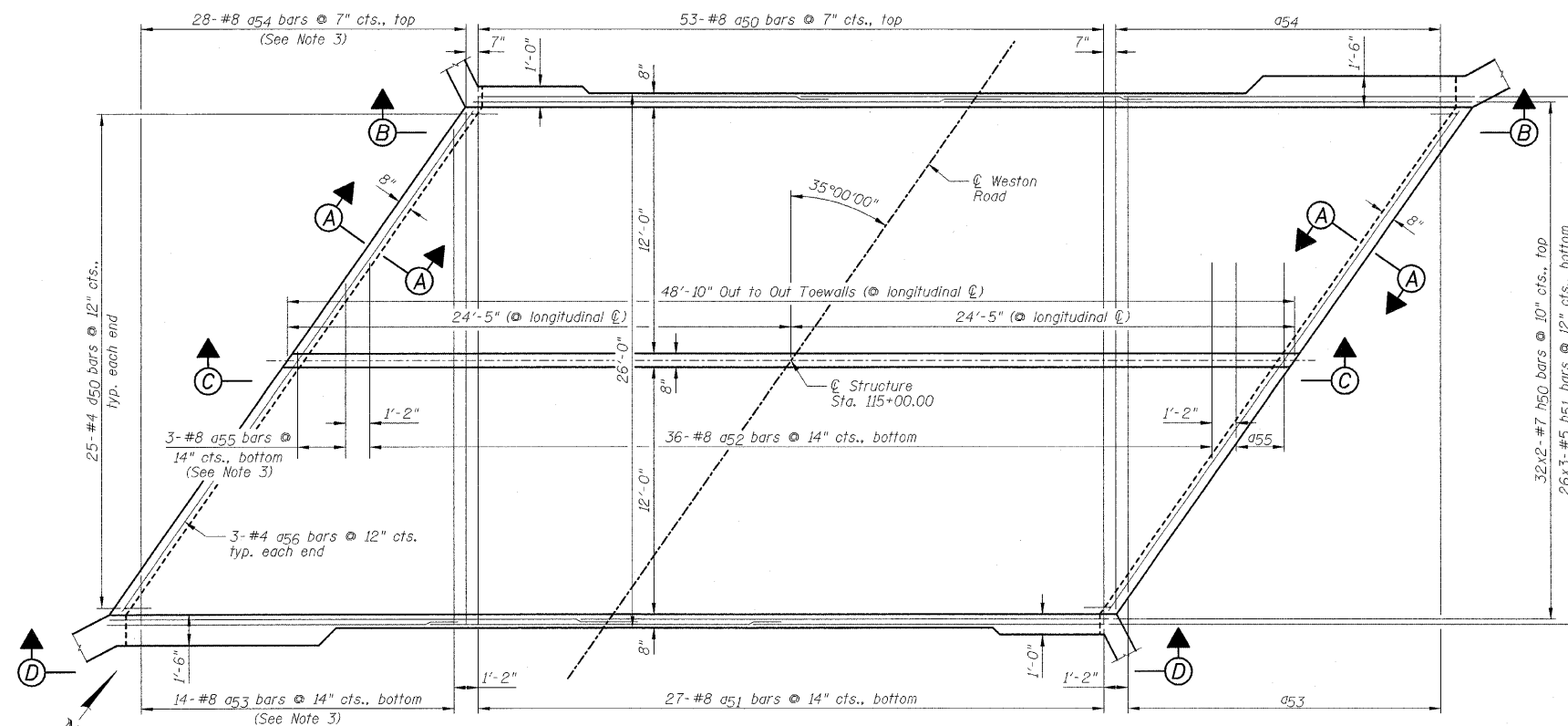
SCALE: SHEET NO. B2 OF 8 SHEETS STA. TO STA.

**WESTON ROAD (C.H. 10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON COUNTY
STATION 115+00.00**

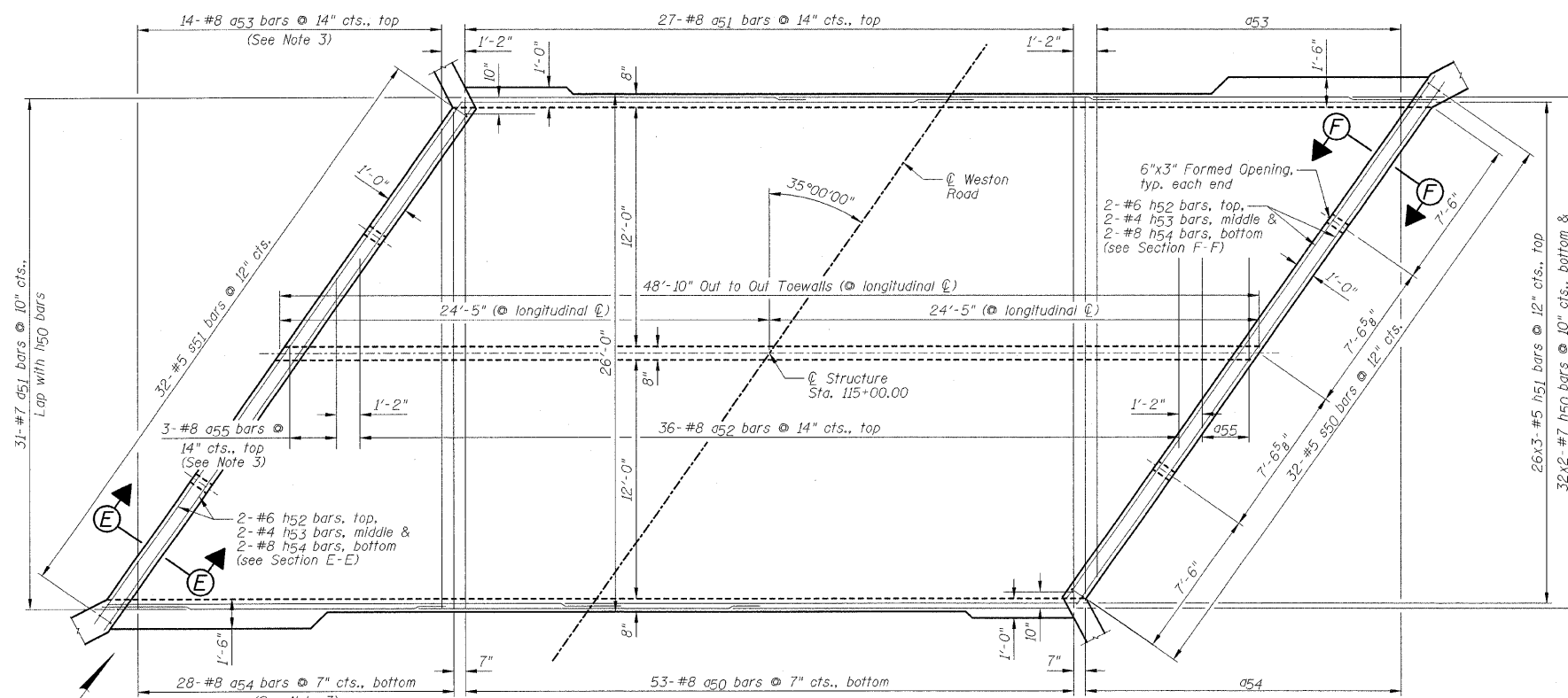
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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S.N. 053-5015		CONTRACT NO. 87412		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FARNSWORTH GROUP, INC.

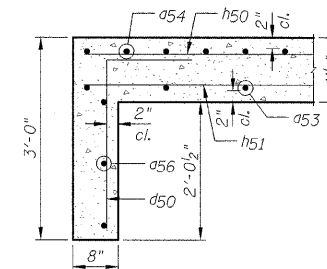
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX



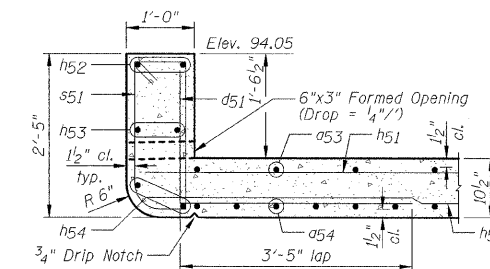
BOTTOM SLAB PLAN



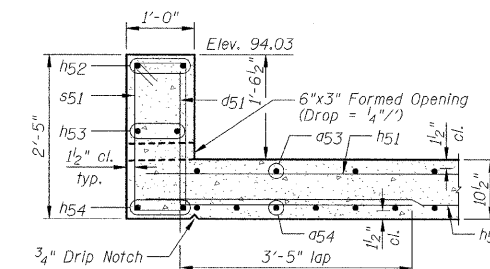
TOP SLAB PLAN



SECTION A-A



SECTION E-E



SECTION F-F

NOTES:

- 1.) For Bill of Material, see Sheet B2.
- 2.) For bar lap length, see the General Notes on Sheet B2.
- 3.) Order #53, #54 and #55 bars full length. Cut according to the Bar Cutting Diagram on Sheet B2. Use remainder of bars in opposite end of slab.
- 4.) For View B-B thru View D-D, see Sheet B4.

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

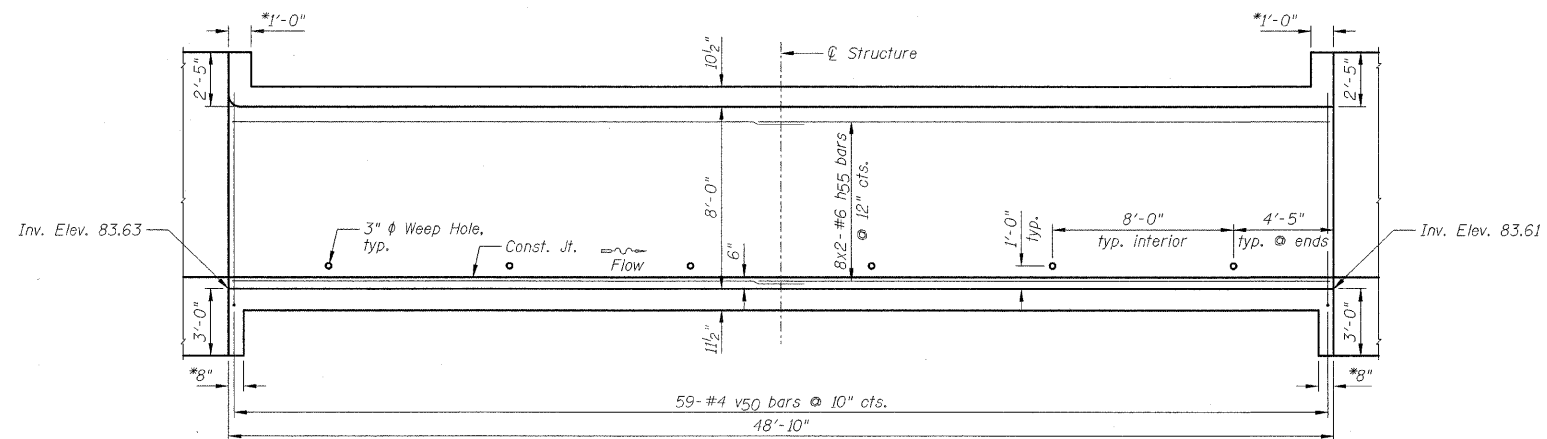
LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

BOTTOM & TOP SLAB REINFORCEMENT PLANS

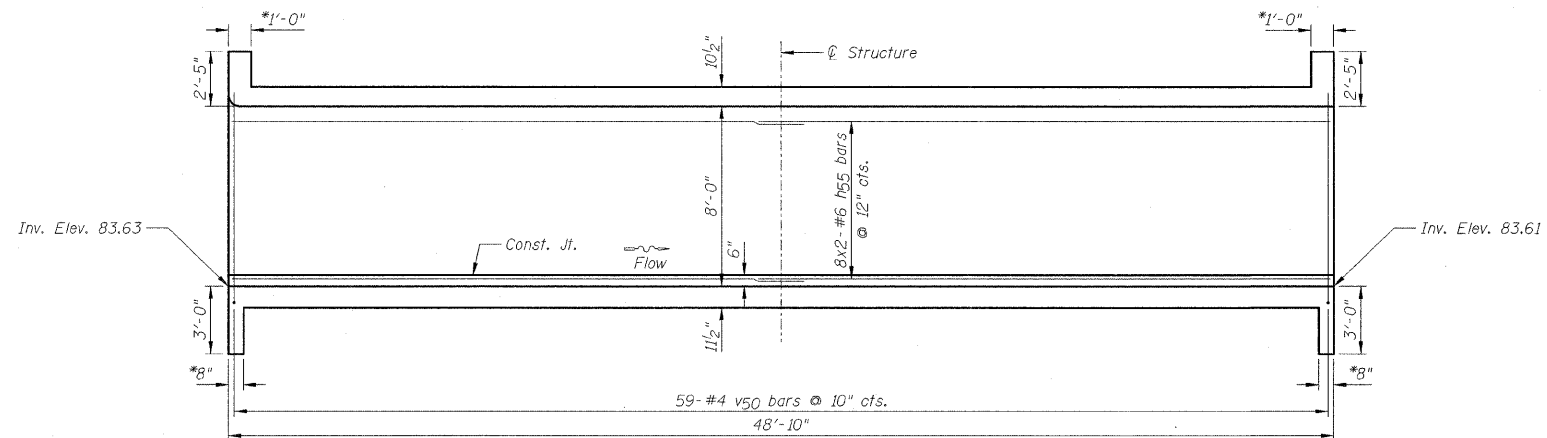
**WESTON ROAD (C.H.10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON, COUNTY
STATION 115+00.00**

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	25
S.N. 053-5015		CONTRACT NO. 87412		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

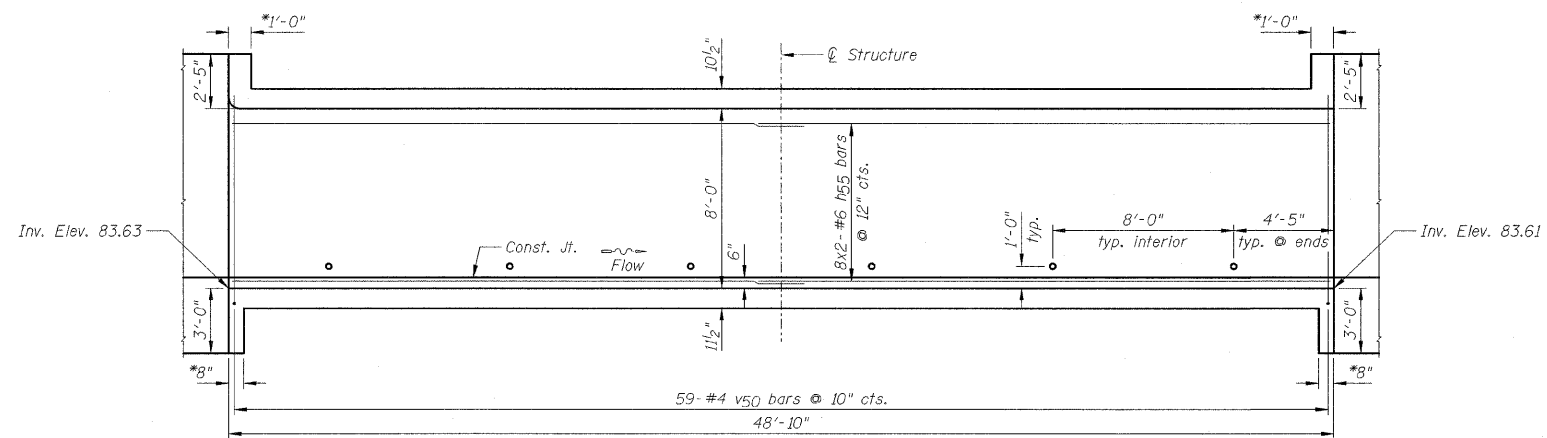
SCALE: SHEET NO. B3 OF 8 SHEETS STA. TO STA.



VIEW B-B



VIEW C-C



VIEW D-D

NOTES:

- 1.) For Bill of Material, see Sheet B2.
- 2.) For bar lap length, see the General Notes on Sheet B2.
- 3.) *Denotes horizontal dimension at right angle to roadway.
- 4.) For location View B-B thru View D-D, see Sheet B3.

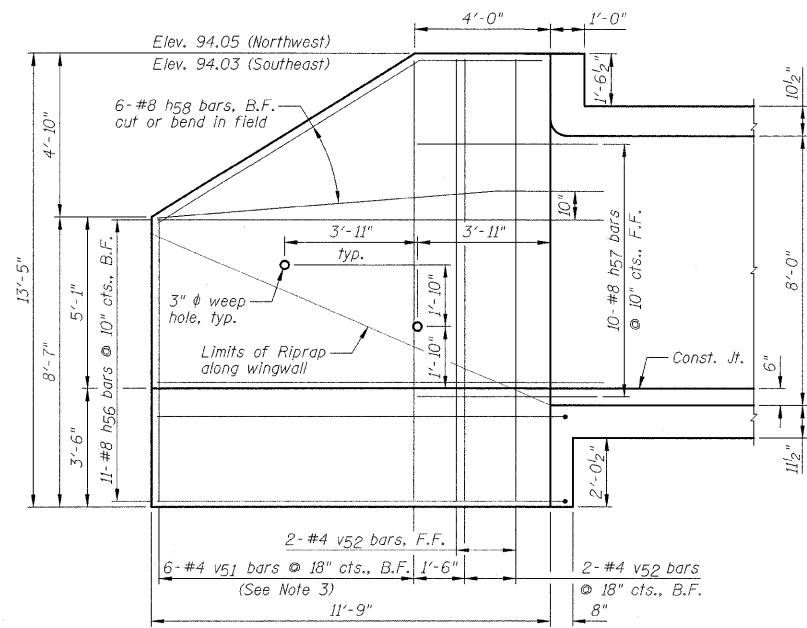
DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

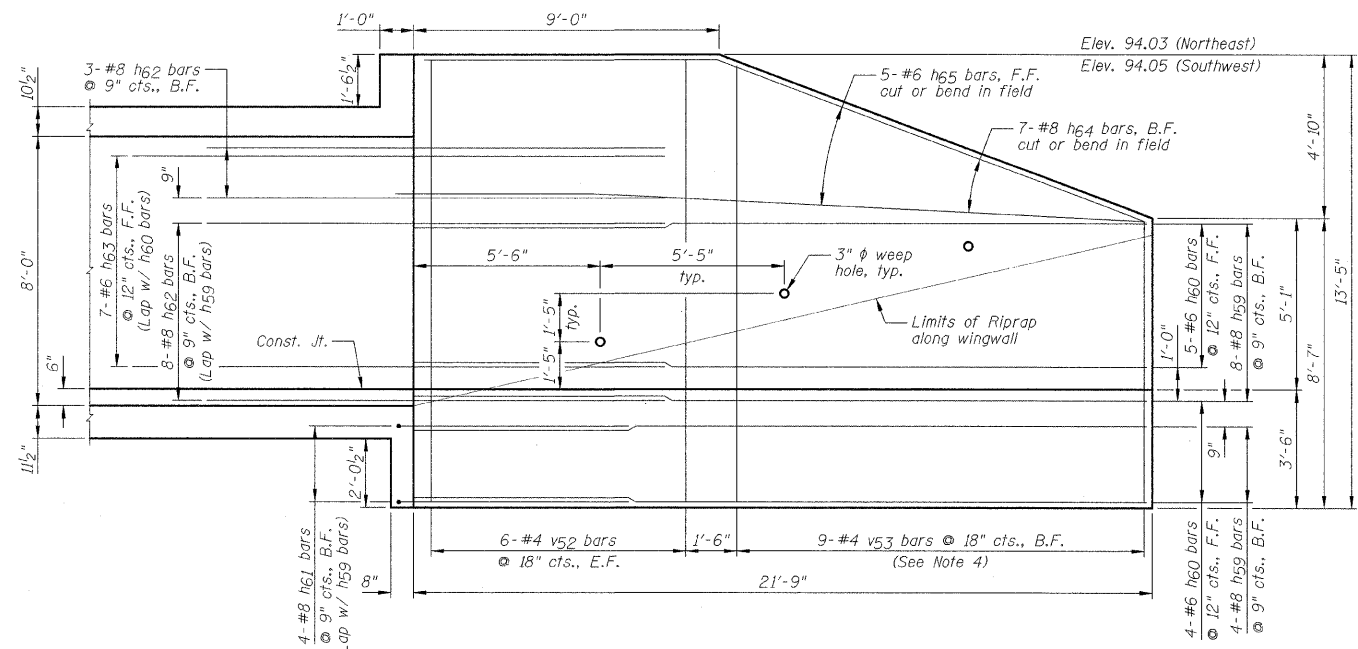
CULVERT WALL ELEVATIONS

WESTON ROAD (C.H. 10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON, COUNTY
STATION 115+00.00

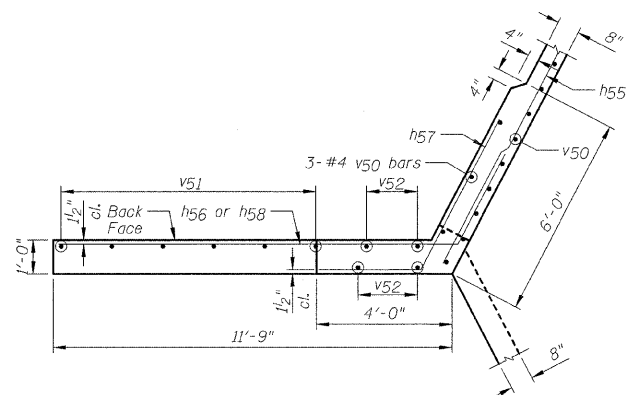
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349	09-00120-03-BR	LIVINGSTON	34	26
S.N. 053-5015		CONTRACT NO. 87412		
FED. ROAD DIST. NO.		[ILLINOIS] FED. AID PROJECT		



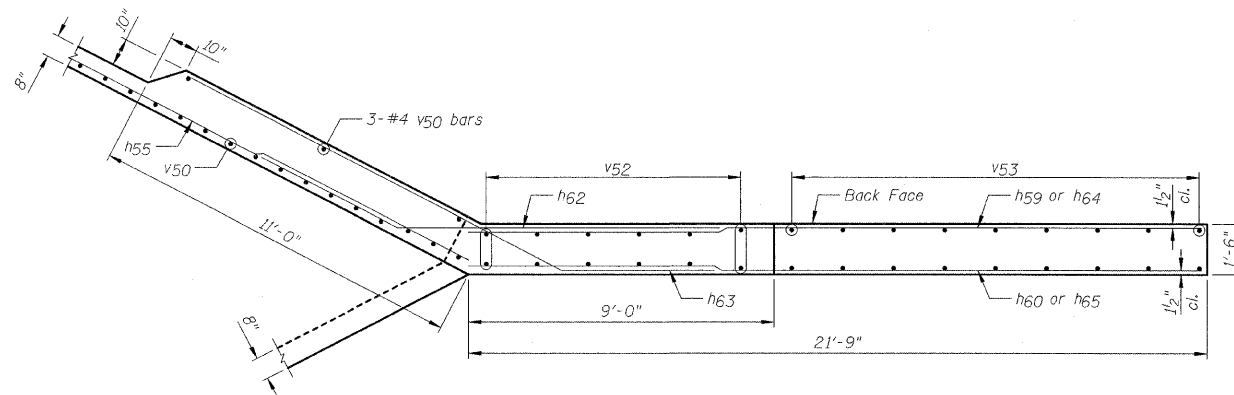
NORTHWEST AND SOUTHEAST WINGWALL ELEVATION



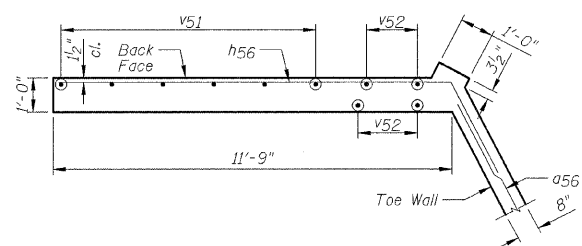
NORTHEAST AND SOUTHWEST WINGWALL ELEVATION



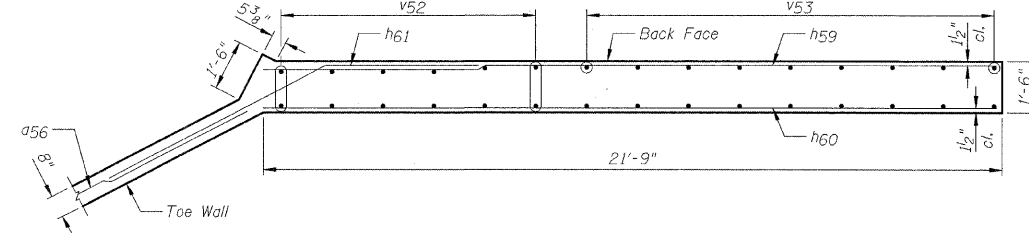
NORTHWEST AND SOUTHEAST WINGWALL UPPER PLAN



NORTHEAST AND SOUTHWEST WINGWALL UPPER PLAN



NORTHWEST AND SOUTHEAST WINGWALL LOWER PLAN



NORTHEAST AND SOUTHWEST WINGWALL LOWER PLAN

NOTES:

- 1.) For Bill of Material, see Sheet B2.
- 2.) For bar lap length, see the General Notes on Sheet B2.
- 3.) Order v51 bars full length. Cut according to the Bar Cutting Diagram on Sheet B2. Use remainder of v51 bars in opposite wingwall.
- 4.) Order v53 bars full length. Cut according to the Bar Cutting Diagram on Sheet B2. Use remainder of v53 bars in front face of the wingwall.

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

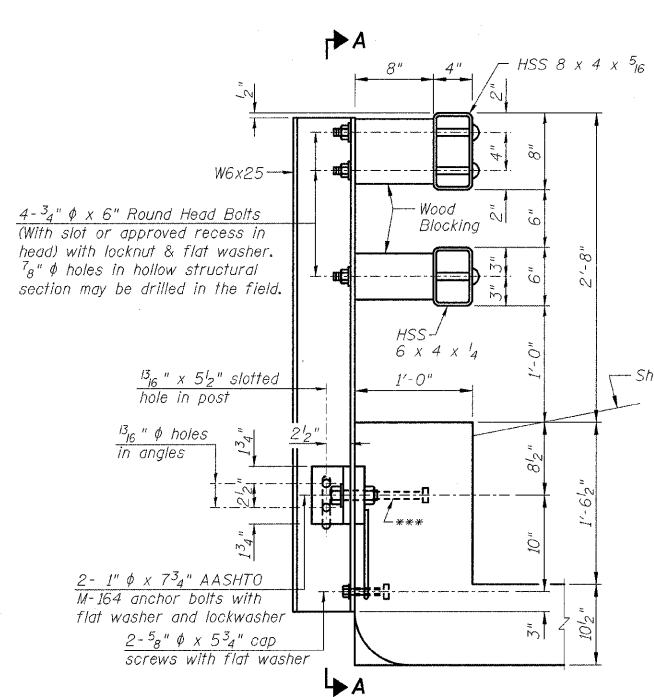
LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

WINGWALL DETAILS

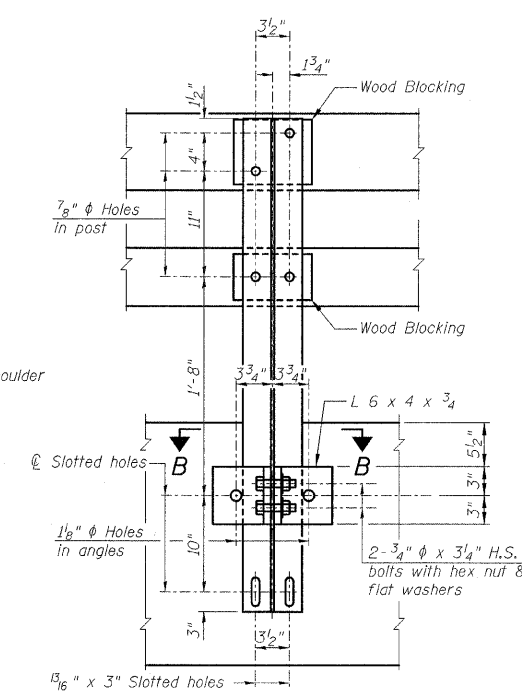
**WESTON ROAD (C.H. 10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON COUNTY
STATION 115+00.00**

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	27
S.N. 053-5015		CONTRACT NO. 87412		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

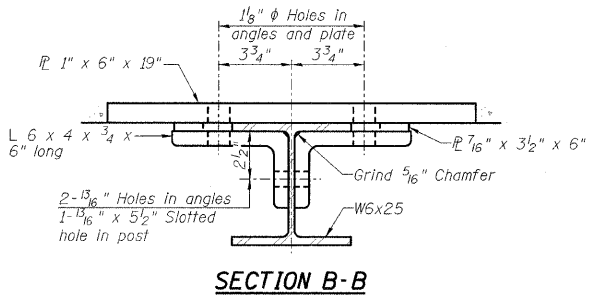
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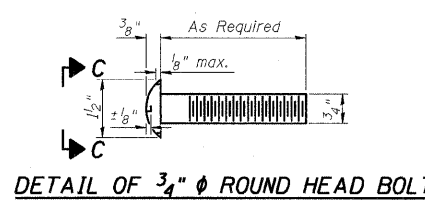
SECTION AT RAIL POST



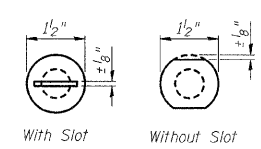
SECTION A-A



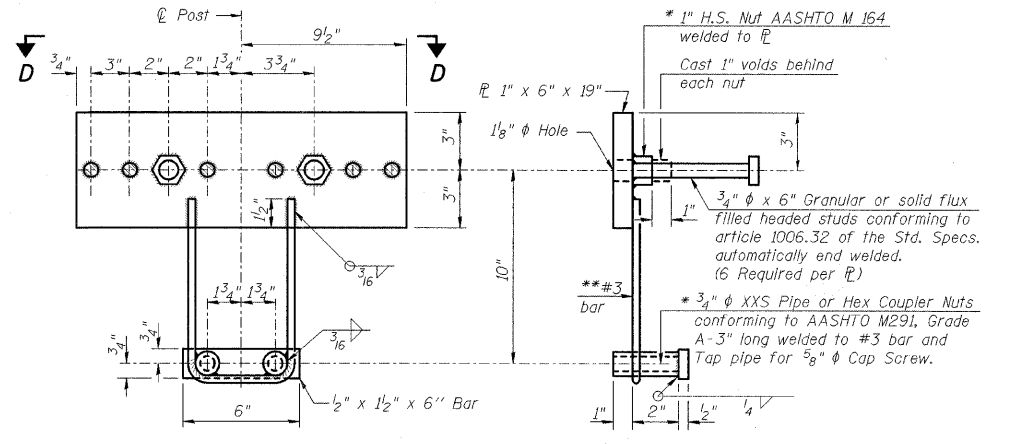
SECTION B-B



DETAIL OF 3/4" ROUND HEAD BOLT

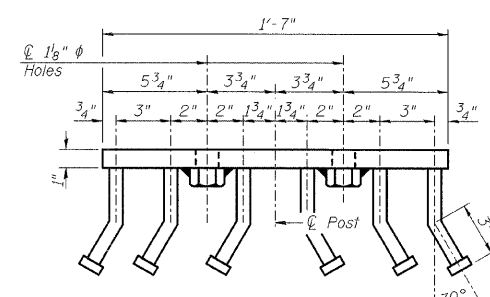


VIEW C-C

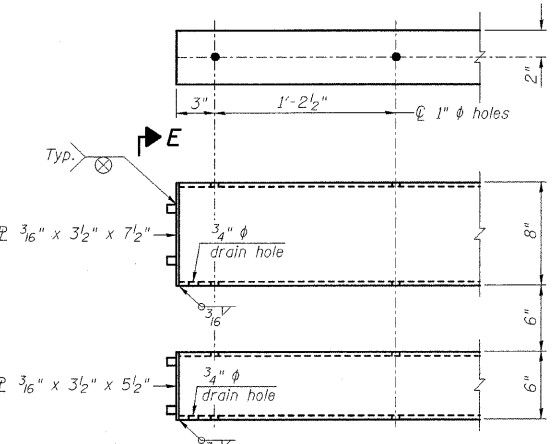


ANCHOR DEVICE

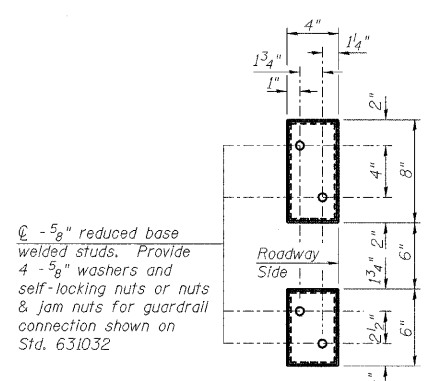
*Threaded areas shall be plugged or blocked off during casting of the headwall. Galvanized after concrete placement.
 **Whenever the lower insert assemblies interfere with reinforcement locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2 inch.



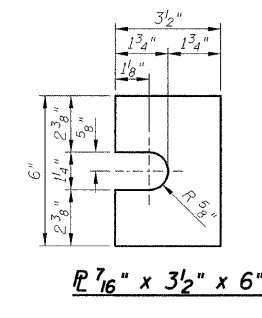
VIEW D-D



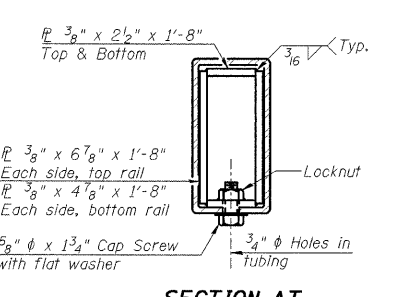
END OF RAIL DETAILS



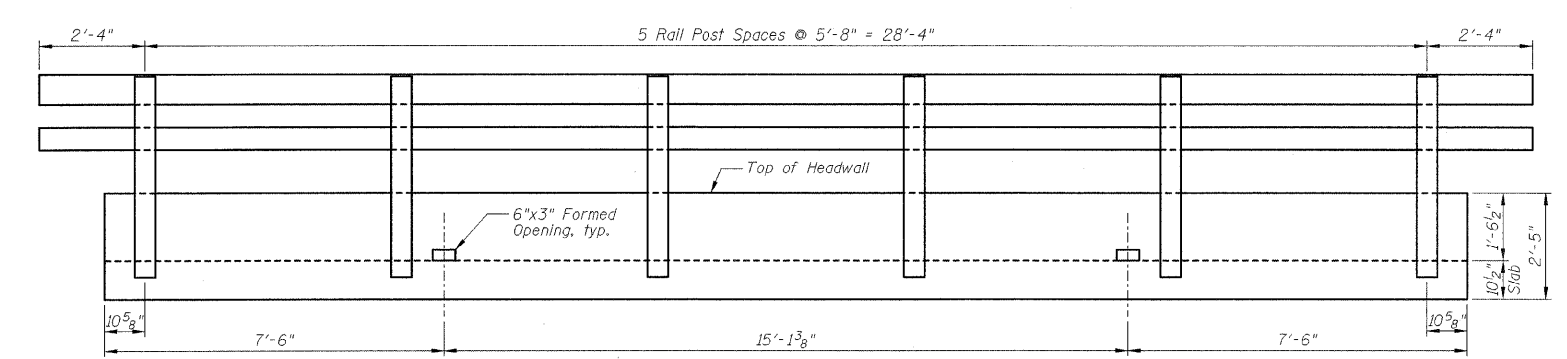
VIEW E-E



PLAN-BOTT. SPLICE P TYPICAL



SECTION AT RAIL SPLICE



RAIL POST SPACING DETAIL

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	66

NOTES:

- All field drilled holes shall be coated with an approved zinc rich paint before erection.
- All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

STEEL RAILING, TYPE SM

**WESTON ROAD (C.H. 10) OVER HICKORY CREEK
 SECTION 09-00120-03-BR
 LIVINGSTON, COUNTY
 STATION 115+00.00**

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	28
S.N. 053-5015		CONTRACT NO. 87412		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

	Midwest Testing Services, Inc.	BORING LOG	Phone: 815-223-6696
	3705 Progress Blvd. Peru, IL 61354	Sheet <u>1</u> of <u>2</u>	Fax: 815-223-6659 e-mail: mts37@comcast.net

Client: <u>Farnsworth Group, Inc.</u>	Boring No. <u>B-1</u>
Project Name: <u>Weston Road, (C.H. 10) S.N.: 053-3441</u>	Surface Elev. <u>94.42</u>
Project Site: <u>Livingston Co. Eppards Point Twp.</u>	Auger Depth <u>31.00</u> Rotary Depth <u>NA</u>
Section No.: <u>09-00120-03-BR</u>	Start Date <u>04/17/09</u> Finish Date <u>04/17/09</u>

Location: Station: 114 + 87 14' RT

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS		
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bluge / Shear	Moisture (%)			Dry Density (PCF)	
94.42													
93.42	Loose Stone over Gravel Fill		1										
92.42			2										
91.42			3	1	SS	8	7						
90.42			4										
89.42			5	2	SS	6	18						
88.42	Medium Stiff Black/Brown/Gray Gravely Silty Clay Fill		6										
87.42			7										
86.42			8	3	SS	5	23						
85.42			9										
84.42			10	4	SS	6	21						
83.42	Medium Stiff Black Silty Clay		11										
82.42			12										
81.42	Stiff Gray Clayey Silt		13	5	SS	1.9	13	B	25				
80.42			14										
79.42	Medium Dense Gray Clayey Fine Sand		15	6	SS	18	12						
78.42			16										
77.42	Very Stiff Blue/Gray Slopewash Shale		17										
76.42			18	7	SS	2.9	16	S	16				
75.42			19										
74.42	Very Stiff Red/Gray Slopewash Shale		20	8	SS	2.3	20	S	15				

Groundwater Data: Water after auger removal 9-feet below top of ground.
Comments:

	Midwest Testing Services, Inc.	BORING LOG	Phone: 815-223-6696
	3705 Progress Blvd. Peru, IL 61354	Sheet <u>2</u> of <u>2</u>	Fax: 815-223-6659 e-mail: mts37@comcast.net

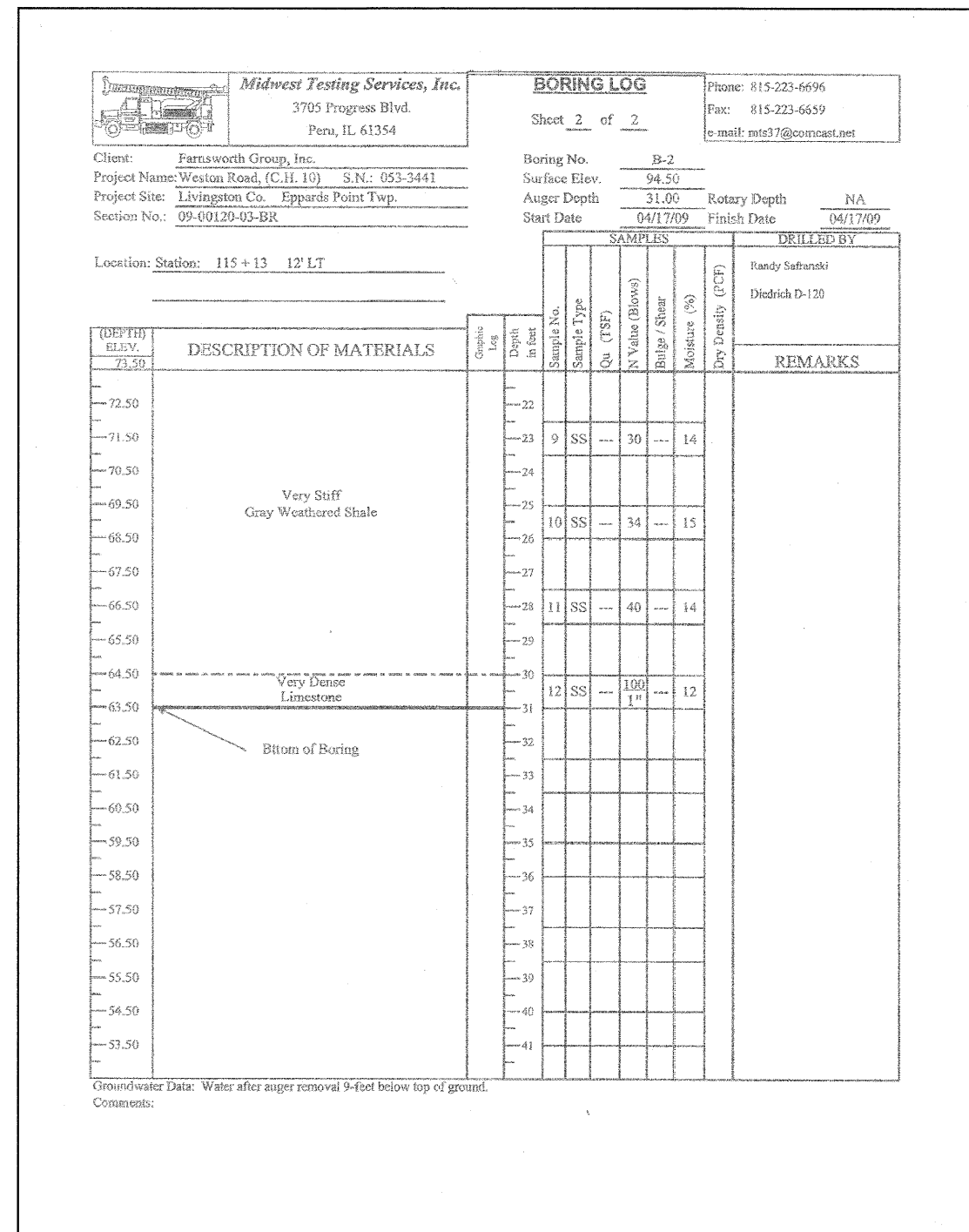
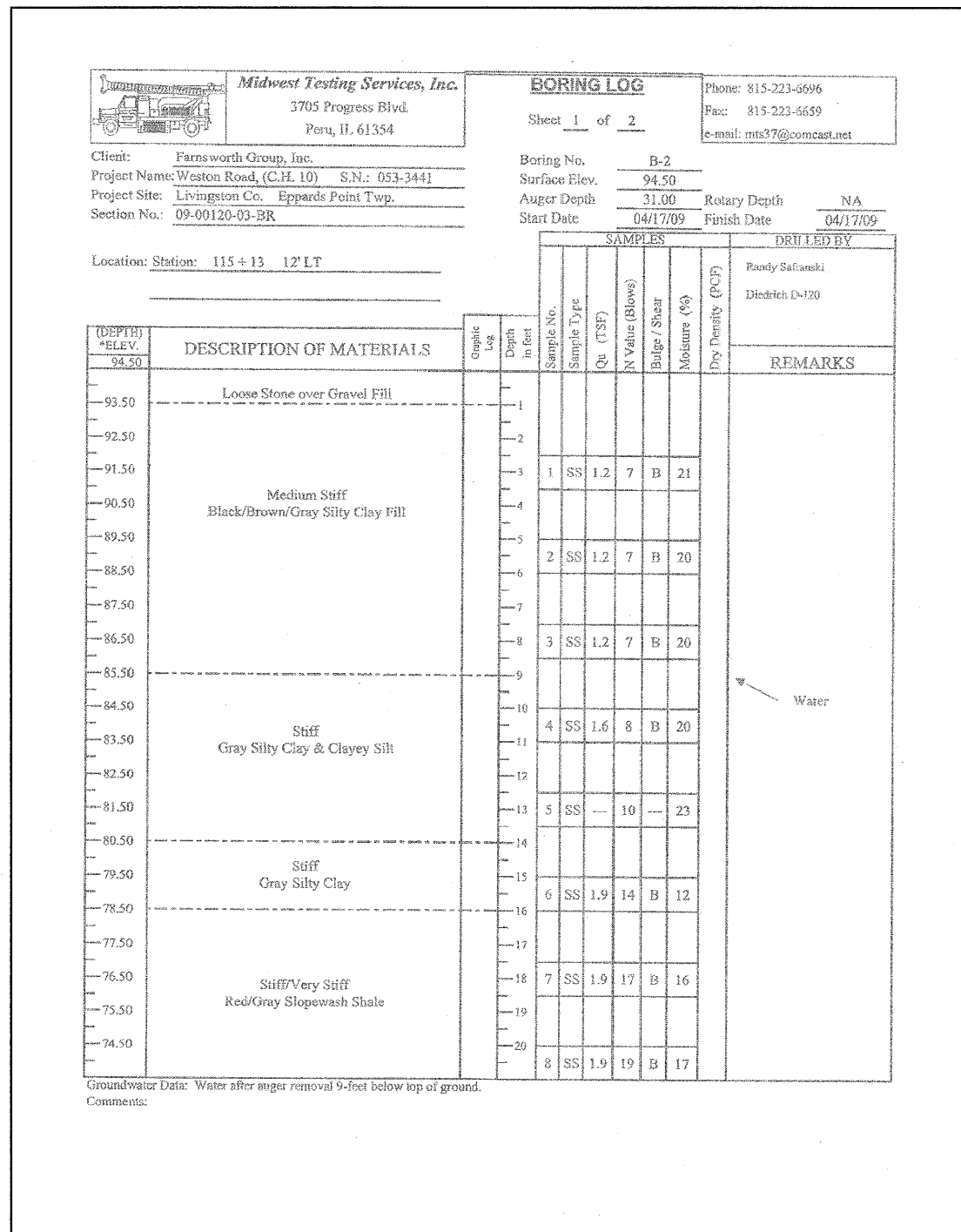
Client: <u>Farnsworth Group, Inc.</u>	Boring No. <u>B-1</u>
Project Name: <u>Weston Road, (C.H. 10) S.N.: 053-3441</u>	Surface Elev. <u>94.42</u>
Project Site: <u>Livingston Co. Eppards Point Twp.</u>	Auger Depth <u>31.00</u> Rotary Depth <u>NA</u>
Section No.: <u>09-00120-03-BR</u>	Start Date <u>04/17/09</u> Finish Date <u>04/17/09</u>

Location: Station: 114 + 87 14' RT

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS		
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bluge / Shear	Moisture (%)			Dry Density (PCF)	
73.42													
72.42			22										
71.42	Very Stiff Red/Gray Slopewash Shale		23	9	SS	2.3	22	S	16				
70.42			24										
69.42			25	10	SS	2.3	25	S	17				
68.42			26										
67.42			27										
66.42	Very Stiff Gray Weathered Shale		28	11	SS	2.8	28	S	16				
65.42			29										
64.42			30										
63.42			31	12	SS	2.9	29	S	16				
62.42	Bttom of Boring		32										
61.42			33										
60.42			34										
59.42			35										
58.42			36										
57.42			37										
56.42			38										
55.42			39										
54.42			40										
53.42			41										

Groundwater Data: Water after auger removal 9-feet below top of ground.
Comments:

DESIGNED - JML	REVISIED -	LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS	SOIL BORING LOGS	WESTON ROAD (C.H. 10) OVER HICKORY CREEK	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN - DJM	REVISIED -				349	09-00120-03-BR	LIVINGSTON	34	29
CHECKED - MSW	REVISIED -				S.N. 053-5015		CONTRACT NO. 87412		
DATE - 10/21/09	REVISIED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

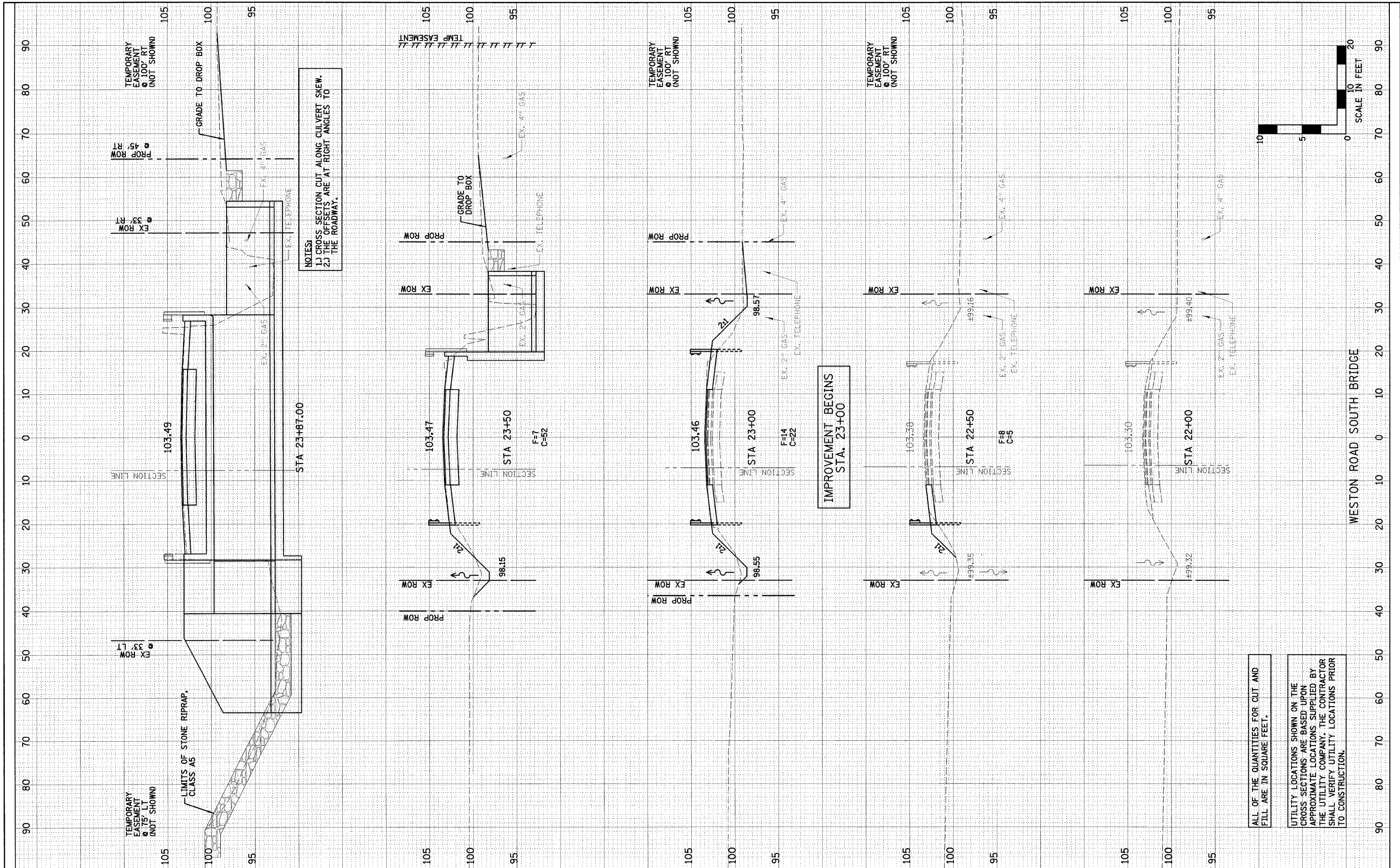
SOIL BORING LOGS

WESTON ROAD (C.H. 10) OVER HICKORY CREEK
 SECTION 09-00120-03-BR
 LIVINGSTON COUNTY
 STATION 115 + 00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	30
S.N. 053-5015		CONTRACT NO. 87412		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

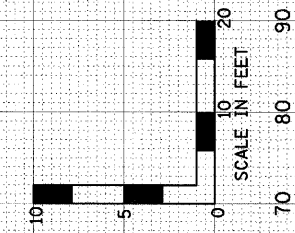
ORIGINAL SURVEYED	DATE
FLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

FINAL SURVEY	DATE
FLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



ALL OF THE QUANTITIES FOR 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.



DESIGNED - JML	REVISED -
DRAWN - DRR	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

CROSS SECTIONS		
SCALE:	SHEET NO. 31 OF 34 SHEETS	STA. 22+00 TO STA. 23+87

WESTON ROAD (C.H. 10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON, COUNTY

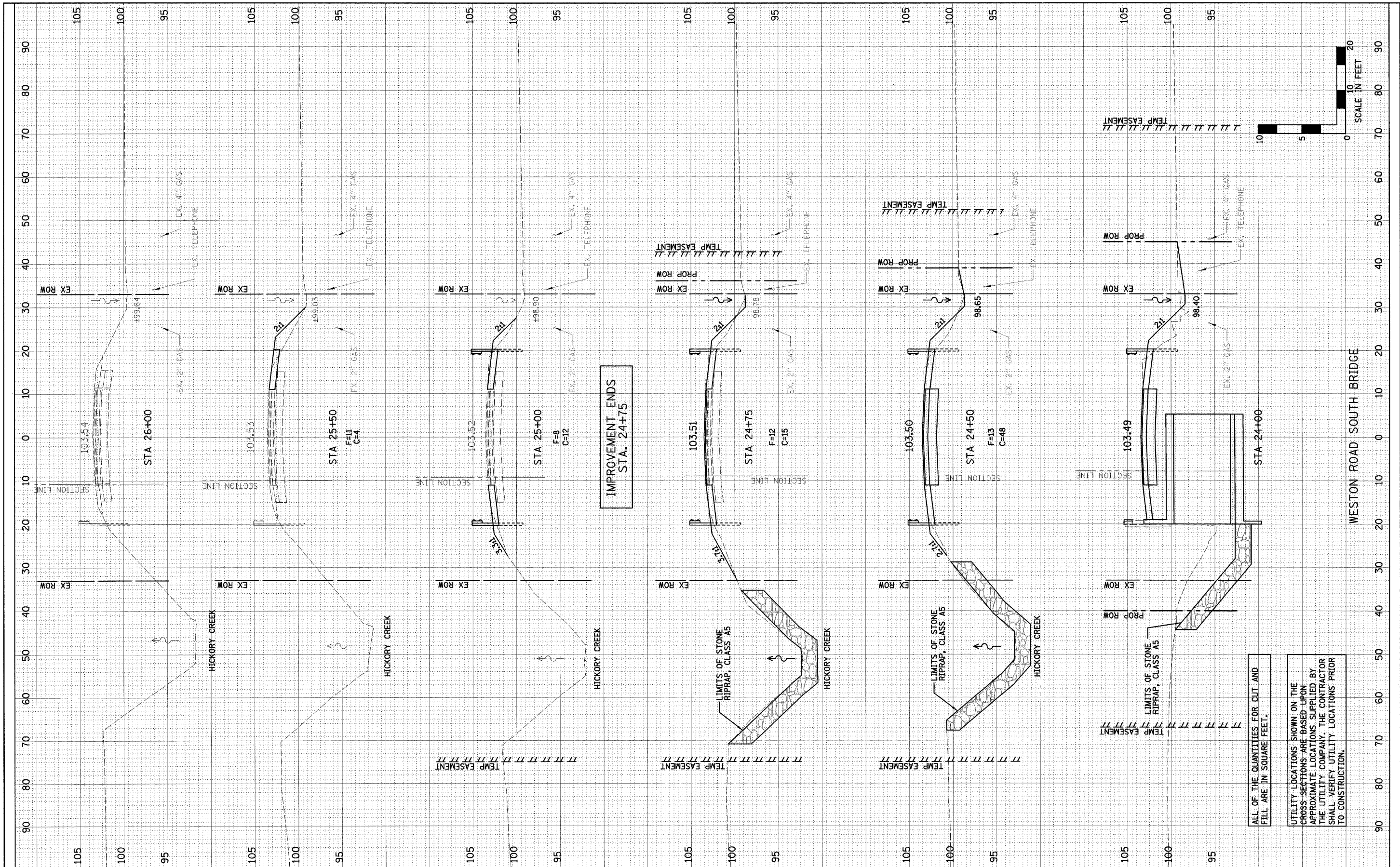
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	31
CONTRACT NO. 87412				
FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT				

FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

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

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



DESIGNED - JML	REVISED -
DRAWN - DRR	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

CROSS SECTIONS		
SCALE:	SHEET NO. 32 OF 34 SHEETS	STA. 24+00 TO STA. 26+00

WESTON ROAD (C.H. 10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON, COUNTY

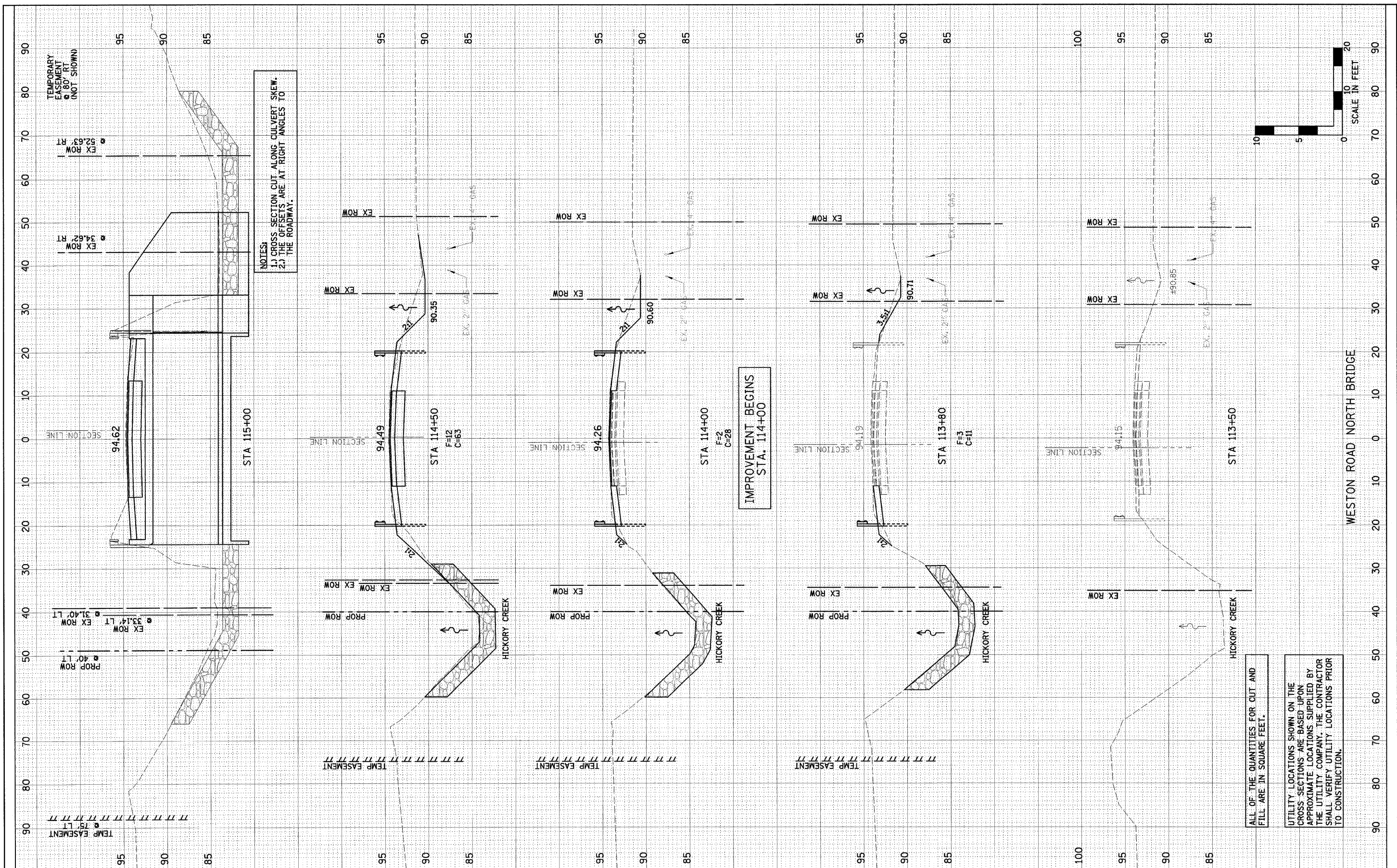
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	32
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				CONTRACT NO. 87412

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

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

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



NOTES:
 1.) CROSS SECTION CUT ALONG CULVERT SKEW.
 2.) THE OFFSETS ARE AT RIGHT ANGLES TO THE ROADWAY.

IMPROVEMENT BEGINS
 STA. 114+00

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

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DESIGNED - JML	REVISED -
DRAWN - DRR	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

CROSS SECTIONS		
SCALE:	SHEET NO. 33 OF 34 SHEETS	STA. 113+50 TO STA. 115+00

WESTON ROAD (C.H. 10) OVER HICKORY CREEK
 SECTION 09-00120-03-BR
 LIVINGSTON, COUNTY

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	33
CONTRACT NO. 87412				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

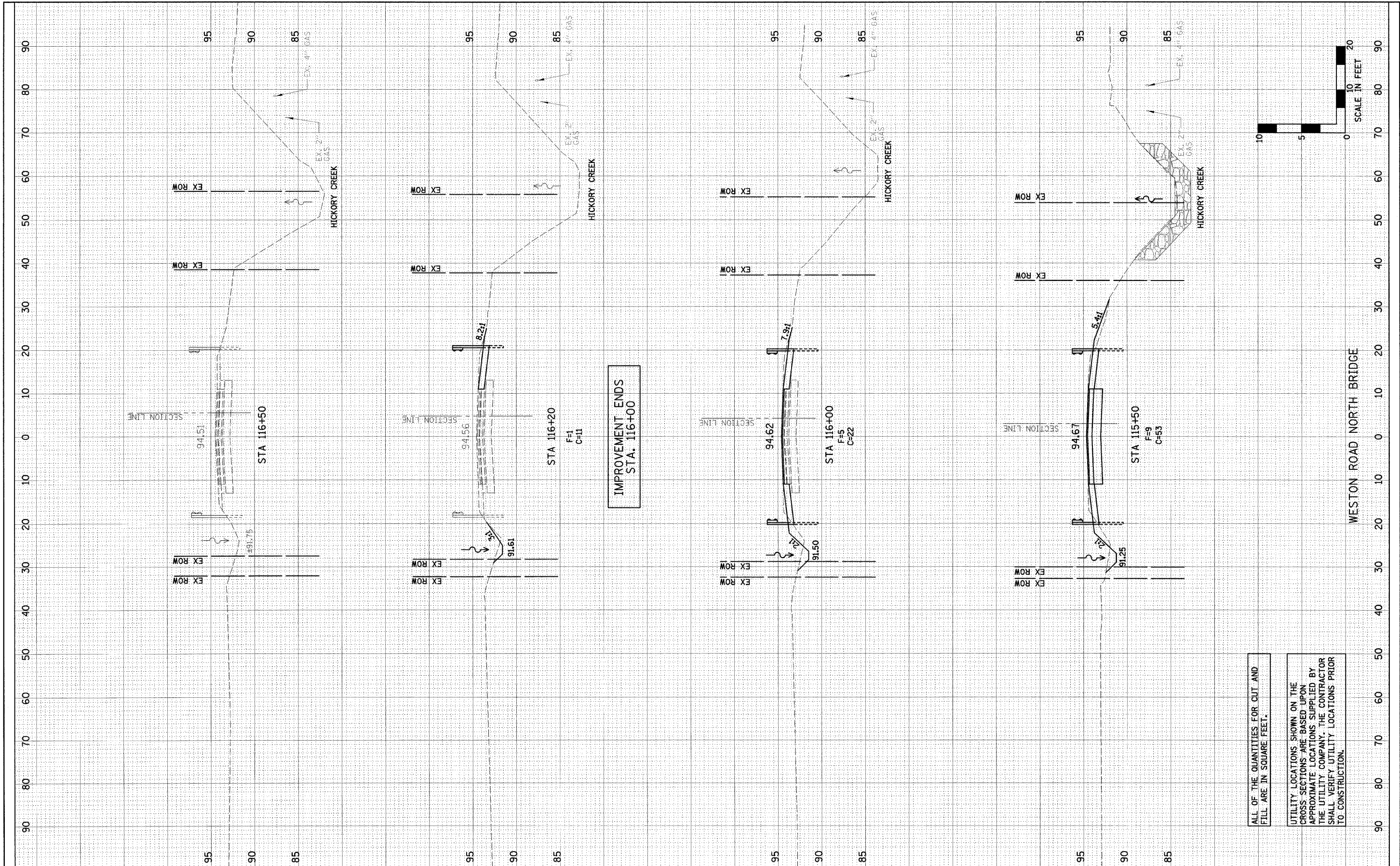
FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

24-8255

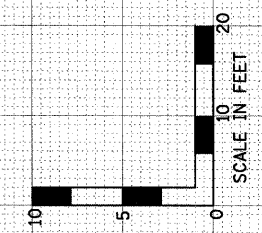
FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

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



ALL OF THE QUANTITIES FOR 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.



DESIGNED - JML	REVISED -
DRAWN - DRR	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

CROSS SECTIONS		
SCALE:	SHEET NO. 34 OF 34 SHEETS	STA. 115+50 TO STA. 116+50

WESTON ROAD (C.H. 10) OVER HICKORY CREEK
SECTION 09-00120-03-BR
LIVINGSTON, COUNTY

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	09-00120-03-BR	LIVINGSTON	34	34
CONTRACT NO. 87412				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				