

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

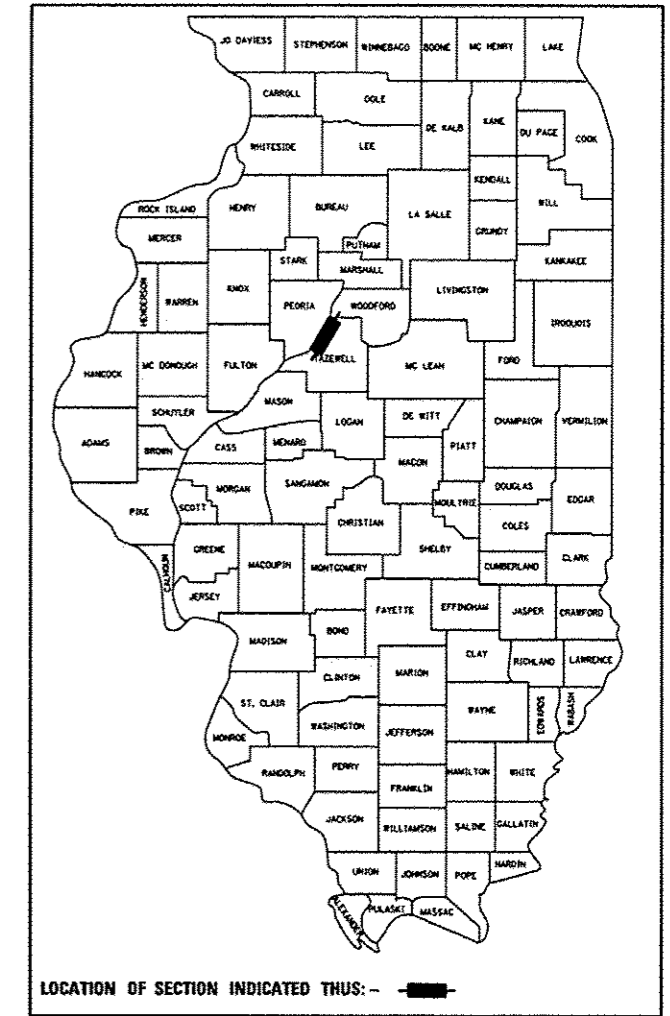
**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 673 (IL 116)
SECTION (102B-1)BR

BRIDGE REPLACEMENT
TAZEWELL COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	1
		ILLINOIS	CONTRACT NO. 68671	

D-94-140-06



FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY STANDARDS 701901-02

- 000001-06 704001-07
- 280001-07 780001-03
- 420401-09 781001-03
- 515001-03 601101-01
- 602301-03
- 602306-03
- 602601-02
- 604036-02
- 630001-10
- 630301-06
- 631026-05
- 631031-11
- 635006-03
- 635011-02
- 666001-01
- 701101-03
- 701106-02
- 701416-07
- 701422-05

END CONSTRUCTION
STA 325 + 70

END IMPROVEMENT
STA 320 + 00

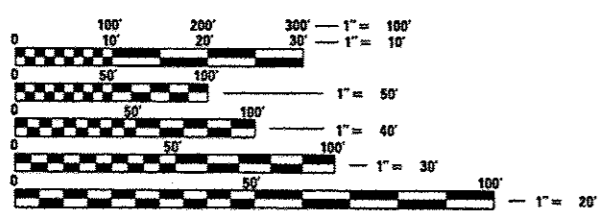
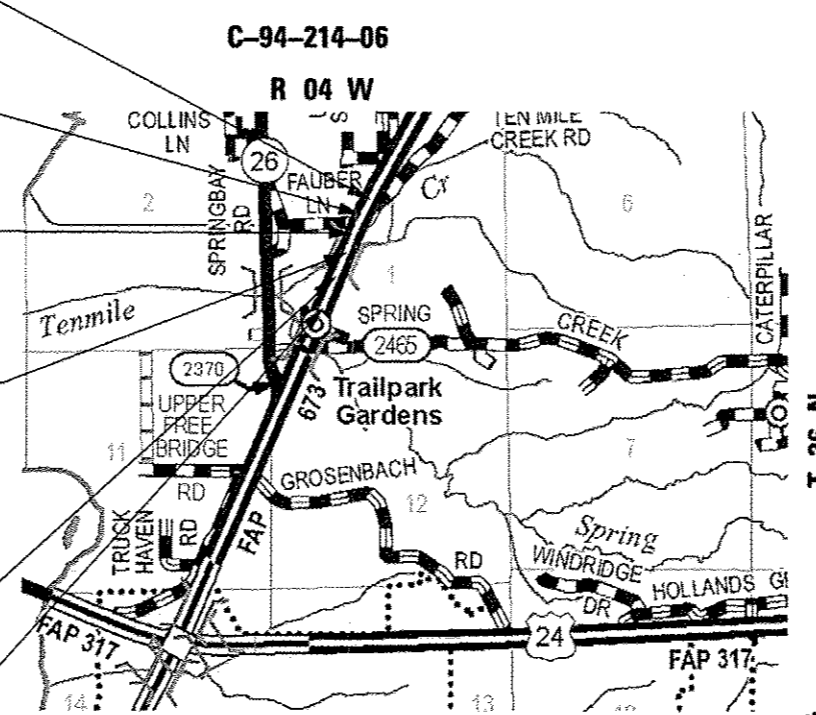
STATION EQUATION
STA 318 + 80.74 BK =
STA 319 + 00.64 AH

BRIDGE REPLACEMENT
STA 316 + 93.71 TO
STA 318 + 76.59

EXIST SN 090-0065
PROP SN 090-0179

BEGIN IMPROVEMENT
STA 313 + 00

BEGIN CONSTRUCTION
STA 301 + 45

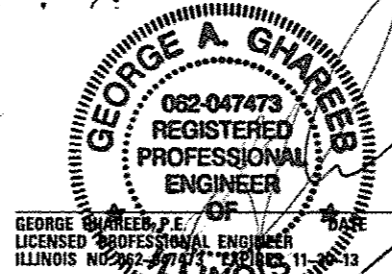


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: RICHARD DOTSON, P.E.
PROJECT MANAGER: KEVIN HORST, P.E.
CATALOG NO. 033422-00D
CONTRACT NO. 68671

GROSS LENGTH = 2,405.1 FT. = 0.46 MILE
NET LENGTH = 680.1 FT. = 0.13 MILE



FUNCTIONAL CLASSIFICATION
MINOR ARTERIAL (NON-URBAN)
2009 ADT = 18,500
P.V. = 95.9% S.U. = 1.9% M.U. = 2.2%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec 14, 2012

[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

ENGINEER OF DESIGN AND ENVIRONMENT

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

12/14/2012 8:37:02 AM I:\Projects\10-221\1001-102B-062-Ten Mile Creek-Phase II\Drawings\CA00 Sheets\0168571-11r-cover.dgn

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS AND GENERAL NOTES
3	STATUS OF UTILITIES
4-10	SUMMARY OF QUANTITIES
11	TYPICAL SECTIONS
12-18	SCHEDULE OF QUANTITIES
19	ALIGNMENT, TIES & BENCHMARKS
20	REMOVAL PLANS
21	PLAN & PROFILE
22	TRAFFIC CONTROL TYPICAL SECTION, GENERAL NOTES AND CONSTRUCTION SEQUENCE
23-25	TEMPORARY Crossover PLAN AND PROFILE
26	TEMPORARY SIGN PANEL ASSEMBLY DETAIL
27-29	TEMPORARY LIGHTING DETAIL
30-38	TEMPORARY Crossover CROSS SECTIONS
39	EROSION CONTROL PLAN
40	PROPOSED GRADING PLAN
41	SCOUR PROTECTION PLAN
42	PROPOSED ROW PLANS
43	PAVEMENT MARKING PLANS
44-65	STRUCTURE PLANS (090-0179)
66	STRUCTURE PLANS (090-0110)
67-80	DISTRICT STANDARDS
81-85	ROADWAY CROSS SECTIONS
86-89	TEN MILE CREEK CROSS SECTIONS

GENERAL NOTES

1. SOIL REPORT AVAILABILITY

ALL SOILS DATA COLLECTED AND PROCESSED FOR THE SOILS REPORT MADE IN CONJUNCTION WITH THE DESIGN OF THIS IMPROVEMENT IS ON FILE AT THE DISTRICT OFFICE WHERE IT IS AVAILABLE FOR INSPECTION BY CONTRACTORS OR PROSPECTIVE BIDDERS. BY SUBMITTING A BID, THE CONTRACTOR ACKNOWLEDGES THAT THE SOILS REPORT HAS BEEN MADE AVAILABLE AND IS AWARE OF THE REPORT CONTENTS AND APPENDICES.

2. AVAILABILITY OF ELECTRONIC FILES

MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR, IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

3. UTILITIES - LOCATIONS/INFORMATION ON PLANS

THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN --- ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

4. PLAN ELEVATIONS - U.S.G.S. MEAN SEA LEVEL DATUM

ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM.

5. COMMITMENTS

THERE ARE NO KNOWN COMMITMENTS RELATED TO THIS PROJECT.

6. CLEARING

AT LOCATIONS WHERE CLEARING IS INDICATED ON THE PLANS BEYOND THE LIMITS OF THE PROPOSED EXCAVATION OR EMBANKMENT, THE CONTRACTOR SHALL RESTORE THE DISTURBED EARTH BY BLADING AND SHAPING TO BLEND WITH THE ADJACENT GROUND. THE CLEARING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE EXCAVATION PAY ITEMS IN THE PLANS. PAYMENT FOR RESEEDING OR RESODDING WILL BE AS PROVIDED IN THE PLANS.

7. TREE REMOVAL

THE DISTRICT FOUR TREE COMMITTEE SHOULD BE CONTACTED AND PRIOR APPROVAL OBTAINED FOR ANY TREE REMOVAL BEYOND THE LIMITS/LOCATIONS INCLUDED IN THE PLANS.

8. ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

1. BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
2. A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
3. SIGNED PROPERTY OWNER AGREEMENT FORM D4 P10100
4. COLOR PHOTOGRAPHS DEPICTING THE USE AREA
5. BORROW AREA ENTRY AGREEMENT FORM D4 P10101

PLEASE NOTE THAT A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES.

9. PAVEMENT STATION NUMBERS & PLACEMENT

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS REQUIRED TO IMPRINT PAVEMENT STATION NUMBERS IN THE FINISHED SURFACE OF THE PAVEMENT AND/OR OVERLAY. THE NUMBERS SHALL BE APPROXIMATELY 3/4 INCH (20 MM) WIDE, 5 INCHES (125 MM) HIGH AND 5/8 INCH (15 MM) DEEP. THE PAVEMENT STATION NUMBERS SHALL BE INSTALLED AS SPECIFIED HEREIN:

INTERVAL - 200 FEET (ENGLISH STATIONING) OR 100 METERS (METRIC STATIONING)
BOTTOM OF NUMBERS - 6 INCHES (150 MM) FROM THE INSIDE EDGE OF THE PAVEMENT MARKING

LOCATION:

- 2, 3, & 5 LANE PAVEMENTS - RIGHT EDGE OF PAVEMENT IN DIRECTION OF INCREASING STATIONS
- MULTI-LANE DIVIDED ROADWAYS - OUTSIDE EDGE OF PAVEMENT IN BOTH DIRECTIONS
- RAMPS - ALONG BASELINE EDGE OF PAVEMENT

POSITION - STATIONS SHALL BE PLACED SO THEY CAN BE READ FROM THE ADJACENT SHOULDER
FORMAT - ENGLISH (METRIC) PAVEMENT STATIONS SHALL USE THIS FORMAT "XXX (XX+X00)",
WHERE X REPRESENTS THE PAVEMENT STATION

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE ASSOCIATED PAVEMENT AND/OR OVERLAY PAY ITEMS.

10. POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) RATES

SURFACE TYPE	ESTIMATED TRUCK APPLICATION	RATE RESIDUAL RATE
MILLED (HMA OR PCC)	0.08 GAL/SY (0.00034 TON/SY)	0.04 GAL/SY
EXISTING PAVEMENT	0.05 GAL/SY (0.00022 TON/SY)	0.025 GAL/SY
FOG COAT (BETWEEN LIFTS)	0.05 GAL/SY (0.00022 TON/SY)	0.025 GAL/SY

NOTE: ESTIMATED TRUCK APPLICATION RATE IS USED FOR ESTIMATING QUANTITIES.

11. HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S):	MAINLINE SURFACE COURSE	LEVELING BINDER	TEMPORARY PAVEMENT AND SHOULDERS (TOP 1.5" OF TEMPORARY PAVEMENT AND TOP 2.25" OF LIFTS)	TEMPORARY PAVEMENT AND SHOULDERS (BOTTOM LIFTS)
AC/PG:	SBS or SBR 76-22	SBS or SBR 76-22	PG 64-22	PG 64-22
RAP% (MAX):**	10%	10%	15%	25%
DESIGN AIR VOIDS	4.0% @ N=70	4.0% @ N=50	3.0% @ N=50	4.0% @ N=50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 or IL 12.5	IL 4.75	IL 9.5 or 12.5	IL 19.0
FRICTION AGGREGATE	MIXTURE E	N/A	MIXTURE C	N/A

** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE MATERIALS ENGINEER.

12. RIGHT-OF-WAY MARKERS

WHEN INSTALLING RIGHT-OF-WAY MAKERS, CARE SHALL BE TAKEN TO NOT DISTURB ANY EXISTING PROPERTY/RIGHT-OF-WAY PINS. IF A PROPERTY/RIGHT-OF-WAY PIN IS FOUND AT THE LOCATION OF A PROPOSED RIGHT-OF-WAY MARKER, THE MARKER SHALL BE PLACED ONE (1) FOOT IN FRONT OF THE PIN.

13. ENGINEERS FIELD OFFICE

ADD THE FOLLOWING SENTENCE TO THE END OF PARAGRAPH 670.02 (I) AND 670.04 (E):
ALL OF THE TELEPHONE LINES PROVIDED SHALL HAVE UNPUBLISHED NUMBERS.

14. BUTT JOINT CUTTING TIME RESTRICTION

BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF THE HMA SURFACE COURSE.

I:\DOT\DOT\LAYERS\B\B\B\1101-101-101-Ten Mile Creek Phase I\DOT\DOT\LAYERS\B\B\B\1101-101-101-Ten Mile Creek Phase I\DOT\DOT\LAYERS\B\B\B\1101-101-101-Ten Mile Creek Phase I\DOT\DOT\LAYERS\B\B\B\1101-101-101-Ten Mile Creek Phase I\DOT\DOT\LAYERS\B\B\B\1101-101-101-Ten Mile Creek Phase I

I:\Projects\11-22-11\1101-101-101-Ten Mile Creek Phase I\DOT\DOT\LAYERS\B\B\B\1101-101-101-Ten Mile Creek Phase I\DOT\DOT\LAYERS\B\B\B\1101-101-101-Ten Mile Creek Phase I\DOT\DOT\LAYERS\B\B\B\1101-101-101-Ten Mile Creek Phase I



USER NAME = WAH	DESIGNED - CL	REVISED -
	DRAWN - WAH	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - KJC/HTL	REVISED -
PLOT DATE = 12/13/2012	DATE - 10/04/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND GENERAL NOTES
IL 116 OVER TEN MILE CREEK

SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA. _____	TO STA. _____	F.A.P. RTE. 673	SECTION 1102B-1BR	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 2
CONTRACT NO. 68671								
ILLINOIS FED. AID PROJECT								



Status of Utilities

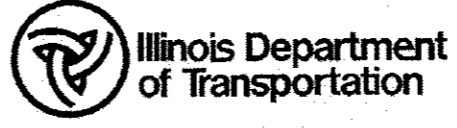
Name of Utility Company

Ameren Illinois (Gas)

Route FAP 673 (IL 116)
 Section (102B-1)BR
 County Tazewell
 Contract No. 68671
 Catalog No. 033422-00D

Route	Offset	Location	Type of Utility	Type of Conflict	Disposition
IL 116	70' Rt.	Sta. 317+00 to Sta. 319+35	12"HP Gas Main	Rip Rap	Caution

NOTE: Please check all your facilities within the construction limits of this project.



Status of Utilities

Name of Utility Company

AT&T

Route FAP 673 (IL 116)
 Section (102B-1)BR
 County Tazewell
 Contract No. 68671
 Catalog No. 033422-00D

Route	Offset € NB Lanes	Location	Type of Utility	Type of Conflict	Disposition
IL 116	86' Lt. to 24' Rt.	Sta. 315+95	Buried Telephone	Guardrail	Relocate
IL 116	24' Rt.	Sta. 315+95 to Sta. 316+65	Buried Telephone	Guardrail	Relocate
IL 116	24' to 48' Rt.	Sta. 316+65 to Sta. 319+80	Buried Telephone	Rip Rap	Caution
IL 116	130' Lt.	Sta. 317+00 to Sta. 317+30	Buried Telephone	Rip Rap	Caution

NOTE: Please check all your facilities within the construction limits of this project.

**100% STATE
CONSTRUCTION CODES**

I:\Projects\18-221\DOT-Ten Mile Creek-Phase II\Drawings\AC-600 Sheets\0485571-sh-500-1.dgn
 I:\DOT_PDF\LAYERS_BK\01.dwg
 I:\Errors_Bentley\Bentley\11\DOT\1000\Shots\sh-500\1.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				ROADWAY 0004 RURAL	SN 090-0179 0011 RURAL	MOWING 0004 RURAL
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25	0	0
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	113	113	0	0
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	113	113	0	0
* 25000600	POTASSIUM FERTILIZER NURTRIENT	POUND	113	113	0	0
20200100	EARTH EXCAVATION	CU YD	1876	1876	0	0
20300100	CHANNEL EXCAVATION	CU YD	5935	5935	0	0
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3059	3059	0	0
* 25000210	SEEDING, CLASS 2A	ACRE	1.25	1.25	0	0
* 25000750	MOWING	ACRE	4.25	0	0	4.25
* 25100115	MULCH, METHOD 2	ACRE	1.25	1.25	0	0
* 25100630	EROSION CONTROL BLANKET	SQ YD	1422	1422	0	0
* 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100	0	0
* 28000305	TEMPORARY DITCH CHECKS	FOOT	48	48	0	0
28000400	PERIMETER EROSION BARRIER	FOOT	1075	1075	0	0


* SPECIALTY ITEM

	USER NAME - WAH	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 116 OVER TEN MILE CREEK		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE - 2.0000' / 1"	DRAWN - WAH	REVISED -				673	002B-118R	TAZEWELL	89	4
PLOT DATE - 12/13/2012	CHECKED - KJC/HTL	REVISED -	CONTRACT NO. 68671				ILLINOIS	FED. AID PROJECT			
				SCALE: NTS		SHEET NO. 1 OF 7 SHEETS		STA. TO STA.			

100% STATE
CONSTRUCTION CODES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				ROADWAY 0004 RURAL	SN 090-0179 0011 RURAL	MOWING 0004 RURAL
28000500	INLET AND PIPE PROTECTION	EACH	2	2	0	0
28100107	STONE RIPRAP, CLASS A4	SQ YD	287	0	287	0
28100109	STONE RIPRAP, CLASS A5	SQ YD	3732	0	3732	0
28200200	FILTER FABRIC	SQ YD	4019	0	4019	0
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1850	1850	0	0
40600115	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	GALLON	147	147	0	0
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	44	44	0	0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SQ YD	267	267	0	0
40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	88	88	0	0
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	58	58	0	0
44000100	PAVEMENT REMOVAL	SQ YD	266	266	0	0
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	15	15	0	0
44004250	PAVED SHOULDER REMOVAL	SQ YD	2412	2412	0	0
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	152	152	0	0

* SPECIALTY ITEM

 TERRA ENGINEERING LTD.	USER NAME - WWH	DESIGNED - CL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 116 OVER TEN MILE CREEK		F.A.P. RTE. 673	SECTION 1102B-118R	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 5
	PLOT SCALE - 2,0000 1/4" = 1"	CHECKED - KJC/HTL	REVISED -				CONTRACT NO. 68671				
	PLOT DATE - 12/13/2012	DATE - 10/04/12	REVISED -				ILLINOIS FED. AID PROJECT				

I:\Projects\18-221\1001-TasRidgeas.Ten Mile Creek-Phase I\CD-wranga\400 Sheets\468571-ht-500-2.dgn

CONSTRUCTION CODES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004 RURAL	SN 090-0179 0011 RURAL	MOWING 0004 RURAL
48203100	HOT-MIX ASPHALT SHOULDERS	TONS	1732	1732	0	0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	0	1	0
50102400	CONCRETE REMOVAL	CU YD	0.8	0.8	0	0
50105220	PIPE CULVERT REMOVAL	FOOT	33	33	0	0
50200100	STRUCTURE EXCAVATION	CU YD	349	0	349	0
50200300	COFFERDAM EXCAVATION	CU YD	164	0	164	0
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1	0	1	0
50300225	CONCRETE STRUCTURES	CU YD	160.5	1.6	158.9	0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	422.2	0	422.2	0
50300260	BRIDGE DECK GROOVING	SQ YD	1025	0	1025	0
50300265	SEAL COAT CONCRETE	CU YD	64.2	0	64.2	0
50300280	CONCRETE ENCASEMENT	CU YD	8.8	0	8.8	0
50300300	PROTECTIVE COAT	SQ YD	1258	0	1258	0
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	0	1	0

* SPECIALTY ITEM


\$PENTBLLS
 \$PLTOWS
 \$SYSTEMPRINTER_NAME\$

100% STATE
CONSTRUCTION CODES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				ROADWAY 0004 RURAL	SN 090-0179 0011 RURAL	MOWING 0004 RURAL
50500505	STUD SHEAR CONNECTORS	EACH	3564	0	3564	0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	120810	160	120650	0
50800515	BAR SPLICERS	EACH	94	0	94	0
51202100	FURNISHING STEEL PILES HP14X117	FOOT	1774	0	1774	0
51202305	DRIVING PILES	FOOT	1774	0	1774	0
51204100	TEST PILE STEEL HP14X117	EACH	3	0	3	0
51500100	NAME PLATES	EACH	1	0	1	0
52100520	ANCHOR BOLTS, 1"	EACH	36	0	36	0
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	364	364	0	0
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	118	0	118	0
60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	1	1	0	0
60500060	REMOVING INLETS	EACH	1	1	0	0
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	45	45	0	0
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	662.5	662.5	0	0

* SPECIALTY ITEM

I:\Terra Bentley\Bentley\Bentley\DOT\100% State\116 Over Ten Mile Creek\116 Over Ten Mile Creek.dwg
I:\Terra Bentley\Bentley\Bentley\DOT\100% State\116 Over Ten Mile Creek\116 Over Ten Mile Creek.dwg
I:\Terra Bentley\Bentley\Bentley\DOT\100% State\116 Over Ten Mile Creek\116 Over Ten Mile Creek.dwg

 TERRA ENGINEERING LTD.	USER NAME - WAH DESIGNED - CL DRAWN - WAH CHECKED - KJC/HTL PLOT DATE - 12/13/2012	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 116 OVER TEN MILE CREEK	F.A.P. RTE. - 673 SECTION - 11028-11BR COUNTY - TAZEWELL TOTAL SHEETS - 89 SHEET NO. - 7 CONTRACT NO. - 68671	ILLINOIS FED. AID PROJECT
	SCALE: NTS SHEET NO. 4 OF 7 SHEETS STA. TO STA.					

CONSTRUCTION CODES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				ROADWAY 0004 RURAL	SN 090-0179 0011 RURAL	MOWING 0004 RURAL
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	0	0
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	0	0
63200310	GUARDRAIL REMOVAL	FOOT	421	421	0	0
63801100	MODULAR BLADE-TYPE GLARE SCREENS	FOOT	850	850	0	0
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	10	10	0	0
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	6	6	0	0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9	0	0
67100100	MOBILIZATION	L SUM	1	1	0	0
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1	0	0
70100410	TRAFFIC CONTROL AND PROTECTION, STANDARD 701416	EACH	1	1	0	0
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	26	26	0	0
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2	2	0	0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1116	1116	0	0

* SPECIALTY ITEM



USER NAME : lpezdiera	DESIGNED - CL	REVISED - KH IDGT 12/14/2012
PLOT SCALE : 2.0000 1/16 in.	DRAWN - WAH	REVISED -
PLOT DATE : 12/14/2012	CHECKED - KJC/HTL	REVISED -
	DATE - 10/04/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 116 OVER TEN MILE CREEK

SCALE: NTS SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 673	SECTION (102B-1)BR	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68671	

CONSTRUCTION CODES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004 RURAL	SN 090-0179 0011 RURAL	MOWING 0004 RURAL
* 70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	8437	8437	0	0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3190	3190	0	0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1178	1178	0	0
* 70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	287.5	287.5	0	0
* 70500655	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	1	0	0
* 70500665	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1	0	0
* 78003130	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 6"	FOOT	608	608	0	0
* 78004230	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"	FOOT	175	175	0	0
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	27	27	0	0
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	6266	6266	0	0
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	271	271	0	0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	30	30	0	0
* 78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	98	98	0	0
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	17	17	0	0

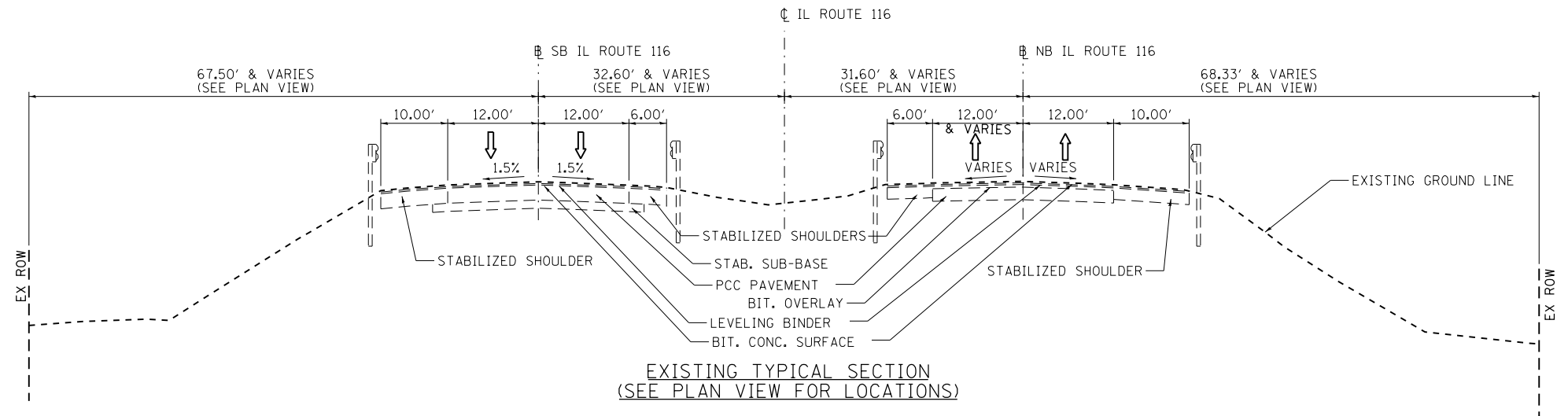
* SPECIALTY ITEM

PENTON
PLOTTERS
PLOTTERS

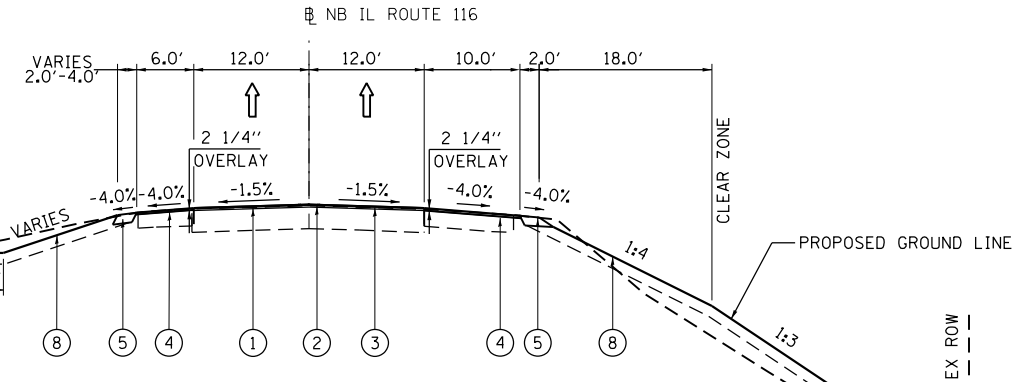
I:\Terra_Bentley\Bentley\Standards\LDOT\VideoTables\penn\PLDTLABEL.TB

LDOT_PDFNOLAYERS.BWp1.caf

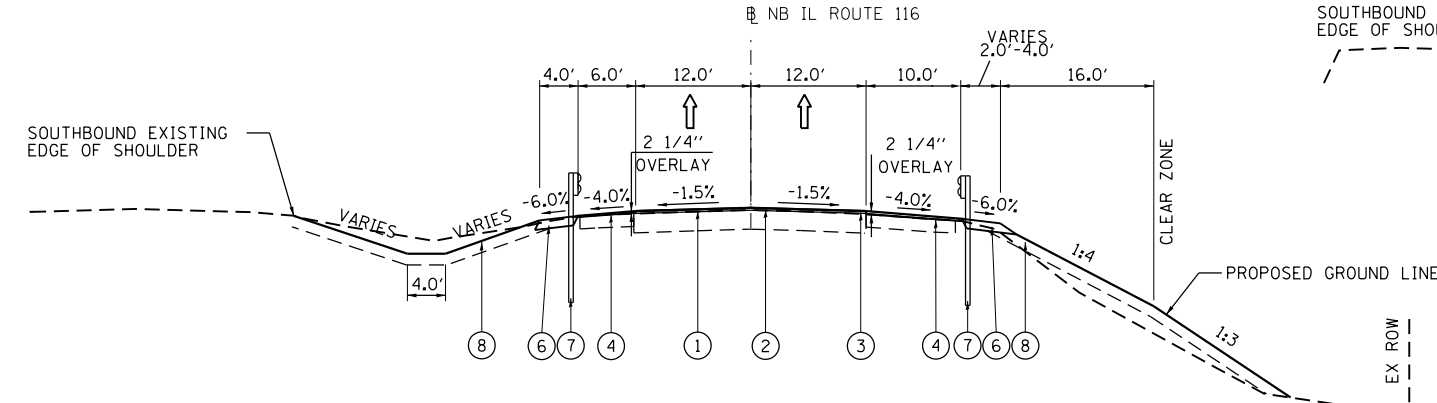
I:\Projects\10-221_IDOT-TazBridges-Ten Mile Creek-Phase II\Drawings\CADD Sheets\0468671-sh-typicalseg



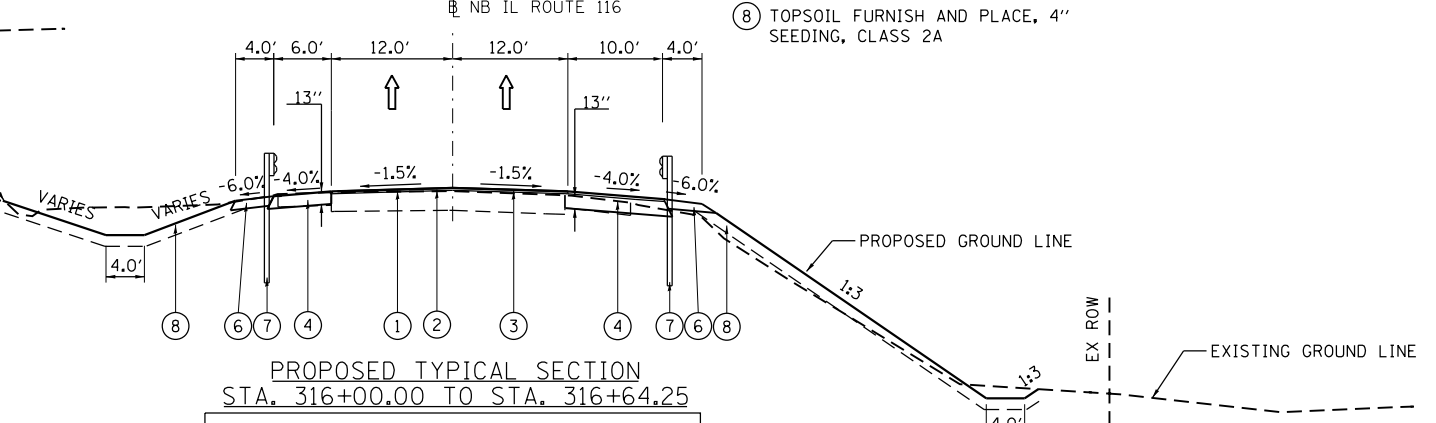
EXISTING TYPICAL SECTION
(SEE PLAN VIEW FOR LOCATIONS)



PROPOSED TYPICAL SECTION
STA. 313+00.00 TO STA. 314+63.00

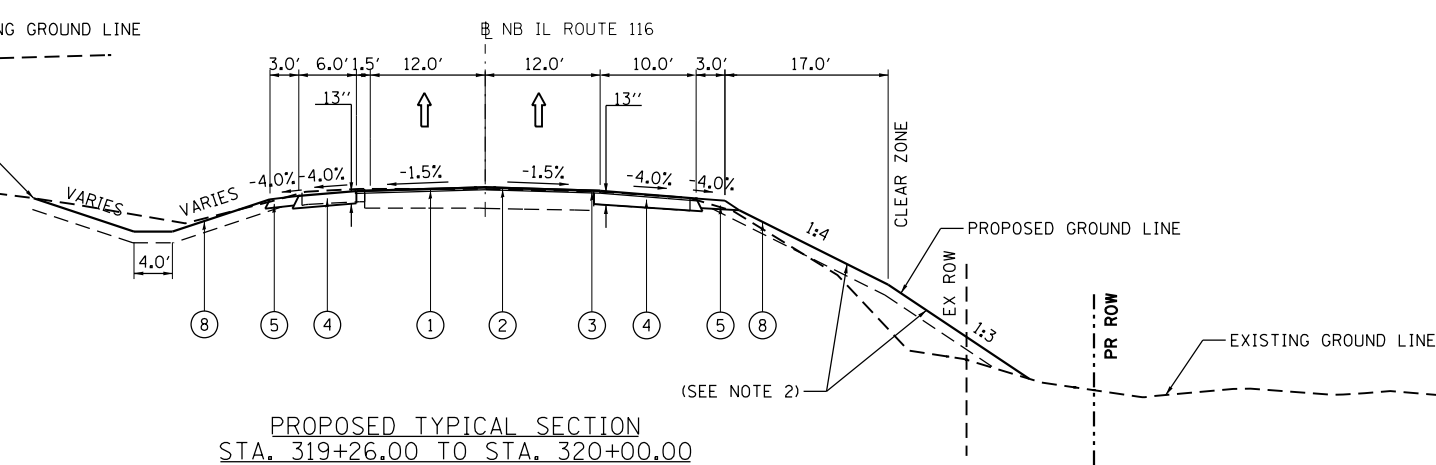


PROPOSED TYPICAL SECTION
STA. 314+63.00 TO STA. 316+00.00



PROPOSED TYPICAL SECTION
STA. 316+00.00 TO STA. 316+64.25

BRIDGE OMISSION
STA. 316+64.25 TO STA. 319+26.00



PROPOSED TYPICAL SECTION
STA. 319+26.00 TO STA. 320+00.00

- LEGEND**
- ① HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH
 - ② POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (1.5")
 - ③ POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 (3/4")
 - ④ HOT-MIX ASPHALT SHOULDERS
 - ⑤ AGGREGATE SHOULDERS, TYPE B 6"
 - ⑥ GUARDRAIL AGGREGATE EROSION CONTROL
 - ⑦ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
 - ⑧ TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A

- NOTES:**
1. SEE ROADWAY PLANS FOR GUARDRAIL LIMITS.
 2. RIGHT SIDE SLOPE TO EXISTING
 STA. 319+08.37 = 1:2
 STA. 319+08.37 TO STA. 319+25.00 =
 TRANSITION FROM 1:2 TO 1:3
 STA. 319+25.00 TO STA. 319+50.00 =
 TRANSITION FROM 1:3 TO 1:4 TO
 CLEAR ZONE THEN 1:3
 STA. 319+50.00 TO STA. 319+75.00 =
 1:4 TO CLEAR ZONE THEN 1:3
 STA. 319+75.00 TO STA. 320+00.00 =
 TRANSITION TO 1:4
 3. PAVEMENT CROSS SLOPES WILL TRANSITION
 TO MATCH EXISTING AT PROJECT LIMITS.



USER NAME = WAH	DESIGNED - CL	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - WAH	REVISED -
PLOT DATE = 12/13/2012	CHECKED - KJC/HTL	REVISED -
	DATE - 10/04/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
IL 116 OVER TEN MILE CREEK**

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

F.A.P. RTE. 673	SECTION (102B-1)BR	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 11
CONTRACT NO. 68671				
ILLINOIS FED. AID PROJECT				

I:\Terra_Bentley\Bentley\Standards\LDOT\Video\Tables\perm\PL0TLABEL.TBL

ILDOT_PDFNOLAYERS.BWp1c1c1g

I:\Projects\10-221\DOT-10zBridges-Ten Mile Creek-Phase I\Drawings\CADD_Sheets\0466671-shr-Schedules-1.dgn

EARTHWORK SCHEDULE

LOCATION	FOR INFORMATION ONLY				
	4	5	6	7	8
	EARTH EXCAVATION CU YD	EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) (COL 4 x 0.75) CU YD	EMBANKMENT (FILL) CU YD	EARTHWORK BALANCE WASTE (+) OR EXCAVATION (-) (COL 5 - COL 6) CU YD	TOPSOIL FURNISH AND PLACE, 4" SQ YD
TEMPORARY CROSSOVER STA. 0+00.00 TO STA. 7+52.66	812.00	609.00	216.00	393.00	0.00
STA. 9+05.53 TO STA. 15+66.27	618.00	463.50	32.00	431.50	0.00
TEMPORARY CROSSOVER REMOVAL STA. 0+00.00 TO STA. 7+52.66	98.00	73.50	216.00	-142.50	447.00
STA. 9+05.53 TO STA. 15+66.27	134.00	100.50	32.00	68.50	471.00
MAINLINE CONSTRUCTION STA. 312+50 to STA. 316+50	182.90	137.17	446.44	-309.26	1699.13
STA. 319+19.90 to STA. 320+19.90	30.17	22.63	152.38	-129.75	441.95
TOTAL	1875.06	1406.30	1094.81	311.48	3059.08

CHANNEL EXCAVATION SCHEDULE

STATION		(FOOT)	AVG AREA (SQ.FT)	CHANNEL EXCAVATION (CU YD)
FROM	TO			
85+00.00	89+00.00	400.00	401.00	5,935
TOTAL				5,935

DRAINAGE SCHEDULE

LOCATION	STORM SEWERS, CLASS A, TYPE 115"	INLETS, TYPE B, TYPE 8 GRATE	PIPE CULVERT REMOVAL	REMOVING INLETS
	(FOOT)	(EACH)	(FOOT)	(EACH)
STA. 319+22.47 TO STA. 322+86.56	LT 364			
STA. 322+86.56	4.9' LT	1		
STA. 316+77.62	48.74 RT		33	1
TOTALS	364	1	33	1

NOTE:
ALL STATIONS AND OFFSETS ARE BASED ON MEDIAN SURVEYLINE UNLESS OTHERWISE NOTED.

TREE REMOVAL SCHEDULE

LOCATION	TREE REMOVAL (ACRES)
STA. 315+95 TO 317+90 LT	0.15
STA. 317+55 TO STA. 320+00 RT	0.1
TOTALS	0.25

ROW & SURVEYS MARKERS SCHEDULES

	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	PERMANENT SURVEY MARKERS, TYPE I
	EACH	EACH
STA. 315+95, 100' LT	1	
STA. 316+85, 170' LT	1	
STA. 317+90, 100' LT	1	
STA. 317+55, 100' RT	1	
STA. 317+85, 130' RT	1	
STA. 318+40, 130' RT	1	
STA. 319+01.85, 105.53.' RT	1	
STA. 319+20, 95' RT	1	
STA. 320+00, 95' RT	1	
STA. 320+00, 82' RT	1	
STA. 310+00, 0' RT		1
STA. 313+00, 0' RT		1
STA. 317+00, 12' RT (BR. PARAPET)		1
STA. 318+80.74, 0' RT (PT)		1
STA. 325+00, 0' RT		1
STA. 337+34.04, 0' RT (PC)		1
TOTALS	10	6

* PERMANENT SURVEY MARKERS MAY BE MOVED AT THE DISCRETION OF THE ENGINEER

SEEDING SCHEDULE

		SEEDING, CLASS 2A	MULCH, METHOD 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT
		(ACRE)	(ACRE)	(POUND)	(POUND)	(POUND)
STA. 309+00 TO STA. 317+00	MEDIAN	0.4	0.4	36	36	36
STA. 319+00 TO STA. 325+00	MEDIAN	0.32	0.32	29	29	29
STA. 313+00 - STA. 317+00	NB RT	0.35	0.35	32	32	32
STA. 319+00 TO STA. 325+00	NB RT	0.18	0.18	16	16	16
TOTALS		1.25	1.25	113	113	113



USER NAME = WAH	DESIGNED - CL	REVISED -
PLOT SCALE = 2.0000' / in.	DRAWN - WAH	REVISED -
PLOT DATE = 12/13/2012	CHECKED - KJC/HTL	REVISED -
	DATE - 10/04/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES OF QUANTITIES
IL 116 OVER TEN MILE CREEK**

SCALE: NTS SHEET NO. 1 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	12
			CONTRACT NO. 68671	
ILLINOIS FED. AID PROJECT				

POLYMERIZED HMA SCHEDULE													
STATION									POLYMERIZED BITUMINOUS MATERIAL (PRIME COAT)	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	MATERIAL TRANSFER DEVICE
FROM	TO		(FOOT)	(FOOT)	(INCHES)	(GAL/SQYD)	(GAL/SQYD) FOG COAT	LBS/SQYD/IN	(GAL)	(TON)	(TON)	(SQYD)	(TON)
313+00.00	316+57.00	NB	357.00	24.00		0.08			76				
319+32.00	320+00.00	NB	68.00	24.00		0.08			15				
313+30.00	316+57.00	NB	357.00	24.00	0.75			112		40			
319+32.00	319+69.00	NB	37.00	24.00	0.75			112		4			
313+00.00	316+57.00	NB	357.00	24.00	1.5	0.05		112	48		80		
319+32.00	320+00.00	NB	68.00	24.00	1.5	0.05		112	9		8		
313+00.00	313+30.00	NB										130	
319+69.00	320+00.00	NB										137	
LEVELING BINDER													44
HMA SURFACE COURSE													88
TOTAL									147	44	88	267	132

TEMPORARY PAVING SCHEDULE							
STATION		OFFSET	LENGTH	WIDTH	AGGREGATE SUBGRADE IMPROVEMENT 12"	TEMPORARY PAVEMENT	TEMPORARY PAVEMENT REMOVAL
FROM	TO		(FOOT)	(FOOT)	(SQ YD)	(SQ YD)	(SQ YD)
309+20.00	311+33.21	RT	213.21	11.44	272		
311+33.21	311+92.85	RT	59.64	21.88	145		
311+92.85	312+78.70		85.85	20.88	200		
312+78.70	313+40.94	LT	62.24	22.38	155		
313+40.94	315+11.80	LT	170.86	11.94	227		
315+11.80	315+91.96	LT	80.16	9.69	87		
315+91.96	316+45.45	LT	53.49	8.69	52		
316+45.45	316+70.00	LT	24.55	7.69	21		
318+19.00	318+80.09	LT	61.09	8.69	59		
318+80.09	320+75.56	LT	175.57	11.44	224		
320+75.56	321+58.91	LT	63.45	21.88	155		
321+58.91	321+67.97	LT	9.06	20.88	22		
321+67.97	322+11.55		43.58	22.38	109		
322+11.55	323+03.04	RT	91.49	11.94	122		
309+20.00	311+92.85	RT	272.85	13.75		417	265
311+92.85	312+78.70		85.85	17.5		167	167
312+78.70	315+11.80	LT	233.10	13.75		357	228
315+11.80	315+91.96	LT	80.16	8		72	27
315+91.96	316+45.45	LT	53.49	7		42	12
316+45.45	316+70.00	LT	24.55	6		17	3
318+19.00	318+80.09	LT	61.09	7		48	14
318+80.09	321+58.91	LT	258.92	13.75		396	241
321+58.91	321+67.97	LT	9.06	17.5		18	18
321+67.97	323+03.04	RT	135.07	13.75		207	132
TOTAL					1,850	1,741	1,107

BRIDGE CONNECTOR PAVEMENT SCHEDULE						
STATION				W	L	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)
FROM	TO					(SQYD)
316+93.71	316+63.71	43.17	6	S		29
318+64.00	319+32.00	43.17	6	N		29
TOTAL						58

PAVEMENT REMOVAL				
STATION			PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL 3/4"
FROM	TO		(SQYD)	(SQYD)
316+57.71	317+09.00	NB	136	
318+64.00	319+32.49	NB	130	
313+30.00	316+00.00	NB		1,170
316+00.00	316+57.00	NB		153
319+32.00	319+69.00	NB		99
TOTAL			266	1,422

NOTE:
ALL STATIONS AND OFFSETS ARE BASED ON MEDIAN SURVEYLINE UNLESS OTHERWISE NOTED.



USER NAME = WAH	DESIGNED - CL	REVISED -
	DRAWN - WAH	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - KJC/HTL	REVISED -
PLOT DATE = 12/13/2012	DATE - 10/04/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES
IL 116 OVER TEN MILE CREEK

SCALE: NTS SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	13
CONTRACT NO. 68671				
ILLINOIS FED. AID PROJECT				

SHOULDER SCHEDULE													
STATION		OFFSET	LENGTH (FOOT)	WIDTH (FOOT)	THICKNESS (INCHES)	RATE		COMBINATION CURB AND GUTTER REMOVAL (FOOT)	PAVED SHOULDER REMOVAL (SQ YD)	AGGREGATE SHOULDERS, TYPE B 6" (SQ YD)	HOT-MIX ASPHALT SHOULDERS (TON)	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (FOOT)	GUARDRAIL AGGREGATE EROSION CONTROL (TON)
FROM	TO					(LB/SQ YD/IN)	(TON/CU YD)						
309+20.00	311+92.85	NB LT	272.85	5					152				
309+70.00	316+45.00	SB RT	675.00	10					750				
315+99.99	316+98.03	NB LT	98.04	5					58				
315+99.99	317+22.43	NB RT	122.44	10					88				
317+92.00	318+80.74	SB RT	88.74	10					99				
319+00.64	324+89.00	SB RT	588.36	10					654				
312+78.70	316+70.00	SB LT	391.30	5					218				
318+19.00	318+80.74	SB LT	61.74	5					35				
318+48.53	319+70.02	NB LT	121.49	5					68				
318+74.38	319+70.02	NB RT	95.64	10					70				
319+00.64	321+58.91	SB LT	258.27	5					144				
321+67.97	323+03.04	NB RT	135.07	5					76				
309+20.00	311+92.85	SB RT	272.85	5	13	112					111		
309+70.00	314+53.00	SB RT	483.00	9	13	112					352		
312+78.70	316+70.00	NB LT	391.30	5	13	112					159		
314+53.00	314+77.00	SB RT	24.00	9.5	13	112					19		
314+77.00	316+45.00	SB RT	168.00	10	13	112					136		
316+45.45	316+60.45	SB RT	15.00					15				15	
317+91.00	318+80.64	SB RT	89.64	10	13	112					73		
318+00.67	318+15.67	SB LT	15.00									15	
318+34.20	318+49.20	SB RT	15.00									15	
319+00.64	324+89.00	SB RT	588.36	10	13	112					476		
319+00.64	321+58.91	SB RT	258.27	5	13	112					105		
321+67.97	323+03.04	NB LT	135.07	5	13	112					55		
313+00	316+00	NB LT	300.00	6	2.25	112					25		
313+00	316+00	NB RT	300.00	10	2.25	112					42		
316+00	316+64	NB LT	64.00	6	13	112					31		
316+00	316+64	NB RT	64.00	10	13	112					52		
319+26	320+00	NB LT	74.00	6	13	112					36		
319+26	320+00	NB RT	74.00	10	13	112					60		
313+00	313+40	NB LT	40.00	2						9			
313+00	314+13	NB RT	113.00	2						25			
313+40	314+12	NB LT	72.00	4						32			
314+13	314+97	NB RT	84.00	4						37			
319+14	320+00	NB LT	86.00	3						29			
319+39	320+00	NB RT	61.00	3						20			
317+92.00	318+80.74	SB LT	88.74	4	8		2.05						18
319+00.64	320+99.00	SB LT	198.36	4	8		2.05						41
321+74.00	321+98.00	SB LT	24.00	2	8		2.05						3
314+12.06	316+63.37	NB LT	251.31	4	8		2.05						51
316+63.37	316+87.37	NB LT	24.00	2	8		2.05						3
314+96.58	316+89.26	NB RT	192.68	4	8		2.05						40
316+89.26	317+13.26	NB RT	24.00	2	8		2.05						3
318+52.23	321+81.55	NB LT	329.32	4	8		2.05						67
321+81.55	322+05.55	NB LT	24.00	2	8		2.05						3
TOTAL								15	2,412	152	1,732	45	229

NOTE:
ALL STATIONS AND OFFSETS ARE BASED ON MEDIAN
SURVEYLINE UNLESS OTHERWISE NOTED.



USER NAME = WAH	DESIGNED - CL	REVISED -
	DRAWN - WAH	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - KJC/HTL	REVISED -
PLOT DATE = 12/13/2012	DATE - 10/04/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES OF QUANTITIES IL 116 OVER TEN MILE CREEK			
SCALE: NTS	SHEET NO. 3 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1BR)	TAZEWELL	89	14
CONTRACT NO. 68671				
ILLINOIS FED. AID PROJECT				

I:\Terra_Bentley\Bentley\Standards\ILD01\Video\Tables\perm\PL01\TABLE1.TB1
 I:\DOT_PDF\NDL\AYERS\BWA01\1c1c1g
 I:\Projects\10-221\DOT-1\azBridges-Ten Mile Creek-Phase I\Drawings\CADD_Sheets\0468671-41t-Schedules-4.dgn

GUARDRAIL SCHEDULE										
STATION			STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 5	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)
FROM	TO		(FOOT)	(EACH)	(EACH)	(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)
314+87.28	316+12.28	SB OUTSIDE					125.0			
316+12.28	316+26.95	SB OUTSIDE						1		
314+04.82	314+54.82	NB CROSSOVER								1
314+54.82	316+17.32	NB CROSSOVER					162.5			
316+17.32	316+61.07	NB CROSSOVER							1	
318+00.68	318+43.83	SB OUTSIDE		1						
318+43.83	320+38.73	SB OUTSIDE	175.0							
320+38.73	320+88.30	SB OUTSIDE			1					
318+01.00	319+22.00	SB OUTSIDE				101				
318+34.00	319+67.00	SB INSIDE				113				
314+13.32	314+63.32	NB INSIDE			1					
314+63.32	316+25.82	NB INSIDE	162.5							
314+97.77	315+47.77	NB OUTSIDE			1					
315+47.77	316+47.77	NB OUTSIDE	100.0							
316+25.22	316+68.37	NB INSIDE		1						
316+47.17	316+90.32	NB OUTSIDE		1						
318+34.20	318+77.35	SB INSIDE		1						
318+77.95	321+21.66	SB INSIDE	225.0							
321+21.66	321+71.53	SB INSIDE			1					
315+85.09	316+93.66	NB INSIDE				107				
316+24.00	317+23.00	NB OUTSIDE				100				
TOTAL			662.5	4	4	421	287.5	1	1	1

NOTE:
 ALL STATIONS AND OFFSETS ARE BASED ON MEDIAN
 SURVEYLINE UNLESS OTHERWISE NOTED.



USER NAME = WAH	DESIGNED - CL	REVISED -
PLOT SCALE = 2.0000' / 1" =	DRAWN - WAH	REVISED -
PLOT DATE = 12/13/2012	CHECKED - KJC/HTL	REVISED -
	DATE - 10/04/12	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULES OF QUANTITIES
 IL 116 OVER TEN MILE CREEK**

SCALE: NTS SHEET NO. 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	15
			CONTRACT NO. 68671	
ILLINOIS FED. AID PROJECT				

\$PENTBLL\$

\$PLTDVRS\$

\$SYSPRINTER_NAME\$

\$FILE\$

			PAVEMENT MARKINGS													
STATION	STATION	OFFSET			SHORT TERM PAVEMENT MARKING	PAVEMENT MARKING TAPE, TYPE III 4"	WORK ZONE PAVEMENT MARKING REMOVAL	MODIFIED URETHANE PAVEMENT MARKING-LINE 4"	MODIFIED URETHANE PAVEMENT MARKING-LINE 8"	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B-LINE 6"	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B-INLAID- 6"	MODIFIED URETHANE PAVEMENT MARKING- LETTERS AND SYMBOLS	RAISED REFLECTIVE PAVEMENT MARKER	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
					(FOOT)	(FOOT)	(SQ FT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(SQ FT)	(EACH)	(EACH)	(SQ FT)	(EACH)
STAGE 1																
309+70	324+70	SB CENTER														19
309+20	311+40	NB INSIDE													74	
309+20	311+40	NB CENTER													20	
309+20	318+80.74	SB OUTSIDE													321	
319+00.64	324+70	SB OUTSIDE													190	
308+20	318+80.74	SB CENTER													90	
319+00.64	325+70	SB CENTER													57	
309+20	318+80.74	SB INSIDE													321	
319+00.64	324+70	SB INSIDE													190	
321+60	323+25	NB INSIDE													55	
322+00	325+01	NB TURN													101	
324+00	325+01	NB CENTER													10	
309+70	316+45	SB OUTSIDE	SOLID	WHITE		675	225									
316+45	317+92	SB OUTSIDE	SOLID	WHITE		147	49									
317+92	318+80.74	SB OUTSIDE	SOLID	WHITE		89	30									
319+00.64	324+70	SB OUTSIDE	SOLID	WHITE		569	190									
308+70	316+48	SB CENTER	SOLID	WHITE		778	260									
316+48	318+01	SB CENTER	SOLID	WHITE		153	51									
318+01	318+80.74	SB CENTER	SOLID	WHITE		80	27									
319+00.64	325+70	SB CENTER	SOLID	WHITE		669	224									
309+70	316+57	SB INSIDE	SOLID	YELLOW		687	229									
316+57	318+10	SB INSIDE	SOLID	YELLOW		153	51									
318+10	318+80.74	SB INSIDE	SOLID	YELLOW		71	24									
319+00.64	324+70	SB INSIDE	SOLID	YELLOW		569	190									
301+45	309+20	NB OUTSIDE	SOLID	WHITE		775	259									
0+00	7+43	BL	SOLID	YELLOW		743	248									
7+43	9+13	BL	SOLID	YELLOW		170	57									
9+13	15+66.27	BL	SOLID	YELLOW		653	218									
0+00	7+52	RT	SOLID	WHITE		752	251									
7+52	9+07	RT	SOLID	WHITE		155	52									
9+07	14+55	RT	SOLID	WHITE		548	183									
0+00	5+94	BL											24			24
9+63	15+66	BL											25			25
0+00	5+94	RT											24			24
9+63	15+66	RT											25			25
STAGE 3																
309+70	318+80.74	SB OUTSIDE	SKIP DASH	WHITE	228		76									
319+00.64	324+70	SB OUTSIDE	SKIP DASH	WHITE	144		48									
309+70	318+80.74	SB CENTER	SKIP DASH	WHITE	228		76									
319+00.64	324+70	SB CENTER	SKIP DASH	WHITE	144		48									
309+70	318+80.74	SB INSIDE	SKIP DASH	YELLOW	228		76									
319+00.64	324+70	SB INSIDE	SKIP DASH	YELLOW	144		48									
SUBTOTAL					1,116	8,437	3,190	0	0	0	0	0	0	98	1,429	117
FINAL PAVEMENT MARKINGS																
322+11	324+81	NB	SOLID	WHITE					271							
309+15	313+00	NB	SKIP DASH	WHITE					96							
320+00	324+81	NB	SKIP DASH	WHITE					120							
309+15	324+81	SB	SKIP DASH	WHITE					391							
313+00	320+00	NB	SKIP DASH	WHITE						175						
322+11		NB	SOLID	WHITE						27						
309+15	324+81	NB	SOLID	WHITE				1566.5								
309+15	324+81	SB	SOLID	YELLOW				1566.5								
309+15	324+81	NB	SOLID	WHITE				1566.5								
309+15	324+81	SB	SOLID	YELLOW				1566.5								
309+15	324+81	NB CENTER										13				
309+15	324+81	SB CENTER										17				
SUBTOTAL					0	0	0	6,266	271	608	175	27	30	0	0	0
PAY ITEM TOTAL					1,116	8,437	3,190	6,266	271	608	175	27	30	98	1,429	117

NOTE:
ALL STATIONS AND OFFSETS
ARE BASED ON MEDIAN SURVEYLINE
UNLESS OTHERWISE NOTED.



USER NAME = llopezdoza	DESIGNED - CL	REVISOR - KH IDOT 12/14/2012
PLOT SCALE = 2.0000' / in.	DRAWN - WAH	REVISOR -
PLOT DATE = 12/14/2012	CHECKED - KJC/HTL	REVISOR -
	DATE - 10/04/12	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES			
IL 116 OVER TEN MILE CREEK			
SCALE: NTS	SHEET NO. 6 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR		89	17
CONTRACT NO. 68671				
ILLINOIS FED. AID PROJECT				

EROSION CONTROL SCHEDULE					
	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION CONTROL BARRIER	INLET AND PIPE PROTECTION
	SQ.YD	(POUND)	(FOOT)	(FOOT)	(EACH)
STA. 309+00 TO STA. 317+00 MEDIAN		22			
STA. 319+00 TO STA. 325+00 MEDIAN		34			
STA. 313+00 - STA. 316+57 W. FORESLOPE	1422				
STA. 313+00 - STA. 317+00 NB RT		25			
STA. 319+00 TO STA. 325+00 NB RT		19			
STA. 314+62.71 MEDIAN			16.00		
STA. 316.53.30 MEDIAN			16.00		
STA. 319+20.10 MEDIAN					1
STA. 320+86.42 MEDIAN			16.00		
STA. 322+85.62 MEDIAN					1
STA. 316+60 TO STA. 317+00 MEDIAN				44	
STA. 313+00 TO STA. 320+00 NB RT				584	
STA. 318+30 TO STA. 318+70 MEDIAN				41	
STA. 319+00 TO STA. 320+22 SB LT				406	
STA. 316+00 TO STA. 319+25 (UNDERNEATH THE BRIDGE)					
TOTALS	1422	100	48	1075	2

MOWING				
LOCATION	LENGTH	WIDTH	No. MOWINGS / CONSTRUCTION DURATION	AREA
	FOOT	FOOT		ACRE
STA. 308+00.00 to STA. 325+00.00	1517	15	2	0.52
		30	2	1.04
		15	2	0.52
TOTALS				4.25

TEMPORARY LIGHTING SCHEDULE	
LOCATION	TEMPORARY LIGHTING SYSTEM
	(EACH)
PROJECT WIDE	1
TOTALS	1

TEMP SIGN ASSEMBLY			
LOCATION	HEIGHT	WIDTH	AREA
	FOOT	FOOT	SQ.FT
EASTBOUND IL 116 BTWN US 24 & IL 26 EXACT LOCATION TO BE DETERMINED BY THE ENGINEER	6	11	66
TOTAL			66

TEMPORARY CONCRETE BARRIER SCHEDULE	
LOCATION	TEMPORARY CONCRETE BARRIER (FOOT)
RT. STA. 311+25.00 TO LT. STA. 323+19.24	1,178
TOTAL	1,178

TRAFFIC CONTROL SCHEDULE				
	TRAFFIC CONTROL AND PROTECTION STANDARD	TRAFFIC CONTROL AND PROTECTION STANDARD	TRAFFIC CONTROL SURVEILLANCE	CHANGEABLE MESSAGE SIGN
	701422 (L SUM)	701416 (EACH)	(CAL DA)	(CAL MO)
PROJECT WIDE	1	1	26	2
TOTALS	1	1	26	2

MOBILIZATION SCHEDULE	
LOCATION	MOBILIZATION (L SUM)
PROJECT WIDE	1
TOTALS	1

ENGINEERS FIELD OFFICE SCHEDULE	
	ENGINEER'S FIELD OFFICE, TYPE A
	(CAL MO)
PROJECT WIDE	9
TOTALS	9

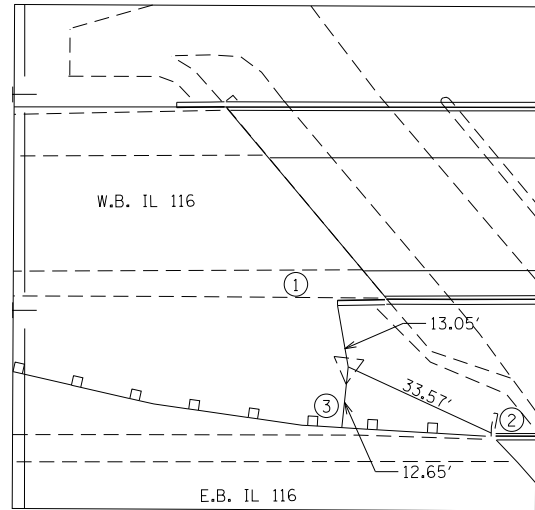
MODULAR BLADE - TYPE GLARE SCREENS	
LOCATION	CONSTRUCTION
	FOOT
313+50 LT TO 322+00 LT	850
TOTALS	850

CONSTRUCTION LAYOUT SCHEDULE	
LOCATION	CONSTRUCTION
	(EACH)
PROJECT WIDE	1
TOTALS	1

WINGWALL MODIFICATION SN 090-0110		
ITEM	UNITS	QUANTITY
CONCRETE REMOVAL	CU YD	0.8
CONCRETE STRUCTURES	CU YD	1.60
REINFORCEMENT BARS, EPOXY COATED	POUND	160

NOTE:
ALL STATIONS AND OFFSETS ARE BASED ON MEDIAN SURVEYLINE UNLESS OTHERWISE NOTED.

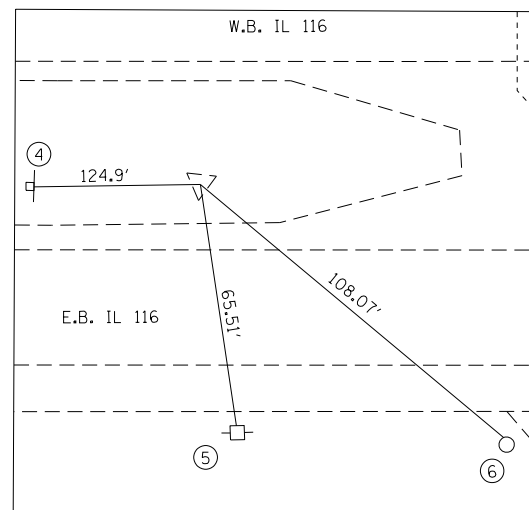
I:\Terra_Bentley\Bentley\Standards\IDOT\Std\Tables\peep\PL01LABLEL.TBL
IDOT_PDFNOLAYERS.BWplotcfq
I:\Projects\10-221_IDOT-102Bridges-Ten Mile Creek-Phase II\Drawings\CADD_Sheets\0466671-sh-tieudgn



IDOT CONTROL POINT #10

IDOT CONTROL POINT #10 IS A #5 REBAR ON THE CENTER MEDIAN OF THE SOUTH SIDE OF TEN MILE CREEK BRIDGE.
N = 1483390.755
E = 2476998.816

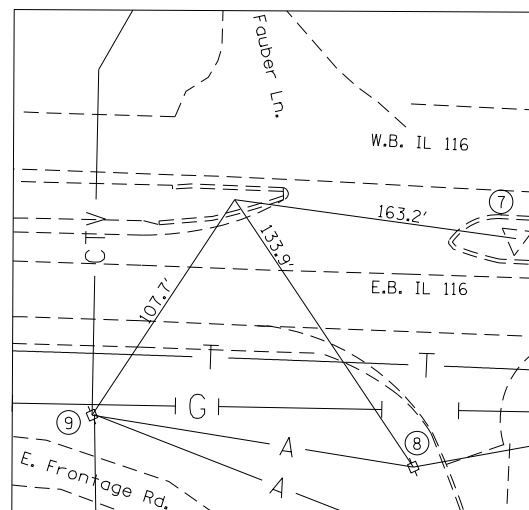
1. CORNER OF E. PARAPET WALL
2. CORNER OF W. PARAPET WALL
3. GUARDRAIL FOR E.B. LANE



IDOT CONTROL POINT #12

IDOT CONTROL POINT #12 IS ON THE S. CENTER MEDIAN NEAR THE FIELD ENTRANCE
N = 1482515.067
E = 2476625.835

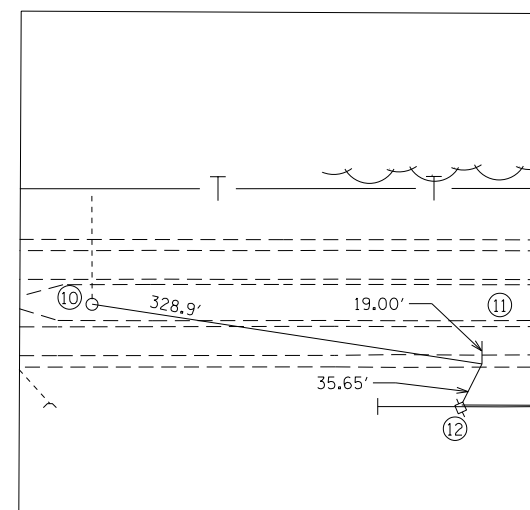
4. P.K. IN RONALD RD. SIGN
5. P.K. IN POWER POLE
6. P.K. IN FENCE POLE ON S. SIDE OF ENTRANCE



CONTROL POINT #1005

CONTROL POINT #1005 IS AN IRON ROD IN THE S. SIDE CENTER AT THE FAUBER LN. INTERSECTION
N = 1484150.065
E = 2477330.819

7. IDOT CONTROL POINT 11
8. POWER POLE AT E. FAUBER LN. ENTRANCE
9. POWER POLE NEAR FRONTAGE RD.



CONTROL POINT #1698

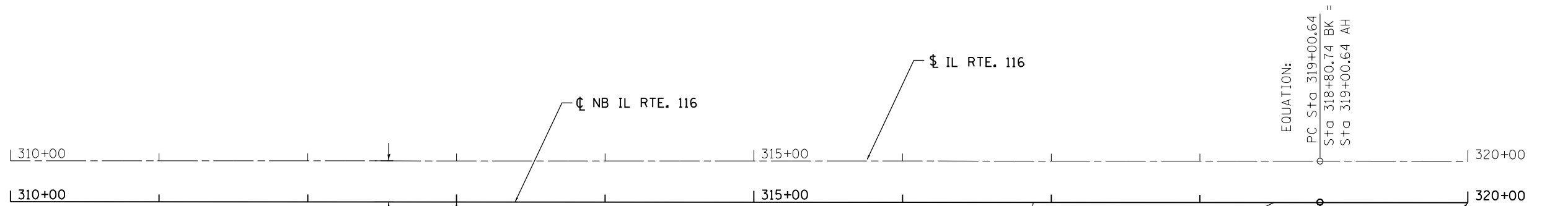
CONTROL POINT #1698 IS A MAG NAIL IN THE E. SHOULDER OF THE EB LANE OF IL. 116.
N = 1482969.071
E = 2476871.266

10. CATCH BASIN IN CENTER MEDIAN
11. POWER POLE ON E. SIDE OF IL. 116
12. CENTERLINE OF E.B. LANE OF IL. 116.

IDOT BENCHMARK NUMBER 1
EXISTING CHISLED "□" ON N.W. CORNER OF CONCRETE WINGWALL. E. SIDE OF S. ABUTMENT, N.B. IL. 116 BRIDGE. ELEV. 489.95

IDOT BENCHMARK NUMBER 2
CHISLED "□" ON N.W. CORNER OF CONCRETE PARAPET. E. SIDE OF S. ABUTMENT, S.B. IL. 116 BRIDGE ELEV. 492.14

IDOT BENCHMARK NUMBER 3
CHISLED "□" ON SLOPE WALL TOP, W. SIDE OF S.B. IL. 116 BRIDGE, S. SIDE OF BRIDGE ELEV. 483.21



§ IL RTE. 116

STATION	NORTHING	EASTING
310+00	1,482,782.6983	2,476,735.3611
315+00	1,483,241.2546	2,476,934.6754
320+00	1,483,699.4323	2,477,134.2718
325+00	1,484,153.6153	2,477,343.3180

TEN MILE CREEK ALIGNMENT (ALIGNMENT NOT SHOWN FOR CLARITY)

⊕ NB IL RTE. 116

STATION	NORTHING	EASTING
310+00	1,482,770.1035	2,476,764.3426
315+00	1,483,228.6597	2,476,963.6569
320+00	1,483,668.8509	2,477,155.3006
325+00	1,484,123.2636	2,477,363.8470

STATION	NORTHING	EASTING
85+00	1,483,411.6522	2,476,856.3254
85+23.66	1,483,424.9948	2,476,875.8654
85+77.51	1,483,448.5689	2,476,924.2787
86+00	1,483,452.8825	2,476,946.3525
87+00	1,483,472.0616	2,477,044.4961
88+00	1,483,491.2406	2,477,142.6397
89+00	1,483,510.4196	2,477,240.7833

BRIDGE OMISSION
STA. 316+93.71 TO
STA. 318+76.59

EXIST. CURVE IL116EXSL
PI STA. = 328+18.20
Δ = 6° 04' 28" (RT)
D = 0° 19' 53"
R = 17,293.12'
T = 917.56'
L = 1,833.40'
E = 24.33'
e = ----
T.R. = ----
S.E. RUN = ----
P.C. STA. = 319+00.64
P.T. STA. = 337+34.04

PROP. CURVE BL116-01
PI STA. = 328+16.52
Δ = 6° 04' 28" (RT)
D = 0° 19' 55"
R = 17,261.52'
T = 915.88'
L = 1,830.05'
E = 24.28'
e = ----
T.R. = ----
S.E. RUN = ----
P.C. STA. = 319+00.64
P.T. STA. = 337+30.69

EQUATION:
PC Sta 319+00.64
Sta 318+80.74 BK =
Sta 319+00.64 AH



USER NAME = WAH	DESIGNED - CL	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN - WAH	REVISED -
PLOT DATE = 12/13/2012	CHECKED - KJC/HTL	REVISED -
	DATE - 10/04/12	REVISED -

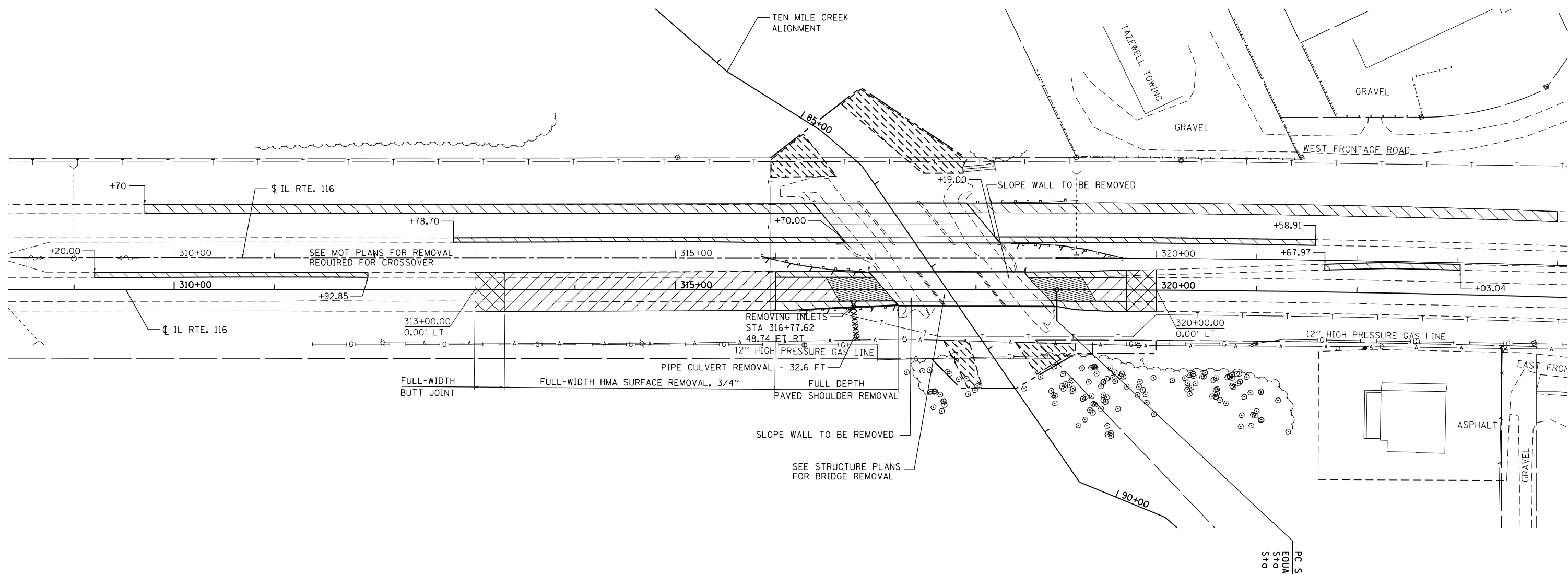
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIE & BENCHMARKS
IL 116 OVER TEN MILE CREEK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	19
CONTRACT NO. 68671				

ILLINOIS FED. AID PROJECT

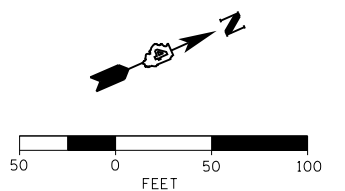


LEGEND

- HMA SURFACE REMOVAL, 3/4"
- HMA SURFACE REMOVAL- BUTT JOINT
- PAVED SHOULDER REMOVAL
- PAVEMENT REMOVAL
- GUARDRAIL REMOVAL
- TREE REMOVAL, ACRES
- PIPE CULVERT REMOVAL
- REMOVING INLETS

NOTE:
ALL STATIONS AND OFFSETS ARE BASED ON MEDIAN SURVEYLINE UNLESS OTHERWISE NOTED.

PC STA 319+00.64
EQUATION:
STA 318+80.74 BK =
STA 319+00.64 AH



USER NAME = WAH	DESIGNED - CL	REVISED -
PLOT SCALE = 100.0000' / 1"	DRAWN - WAH	REVISED -
PLOT DATE = 12/13/2012	CHECKED - KJC/HTL	REVISED -
	DATE - 10/04/12	REVISED -

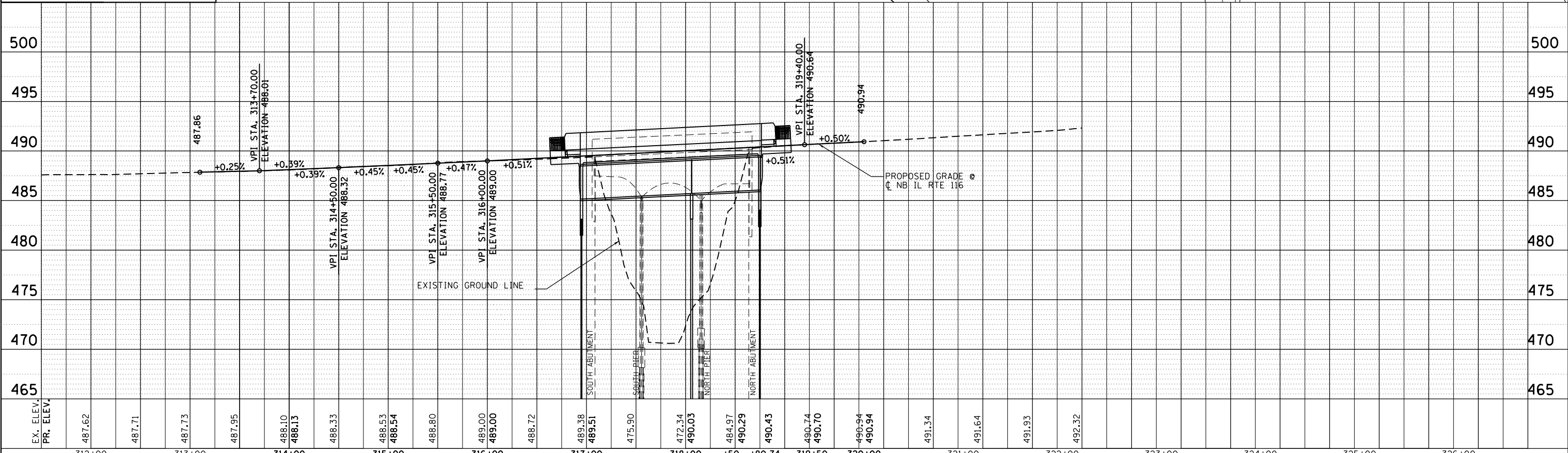
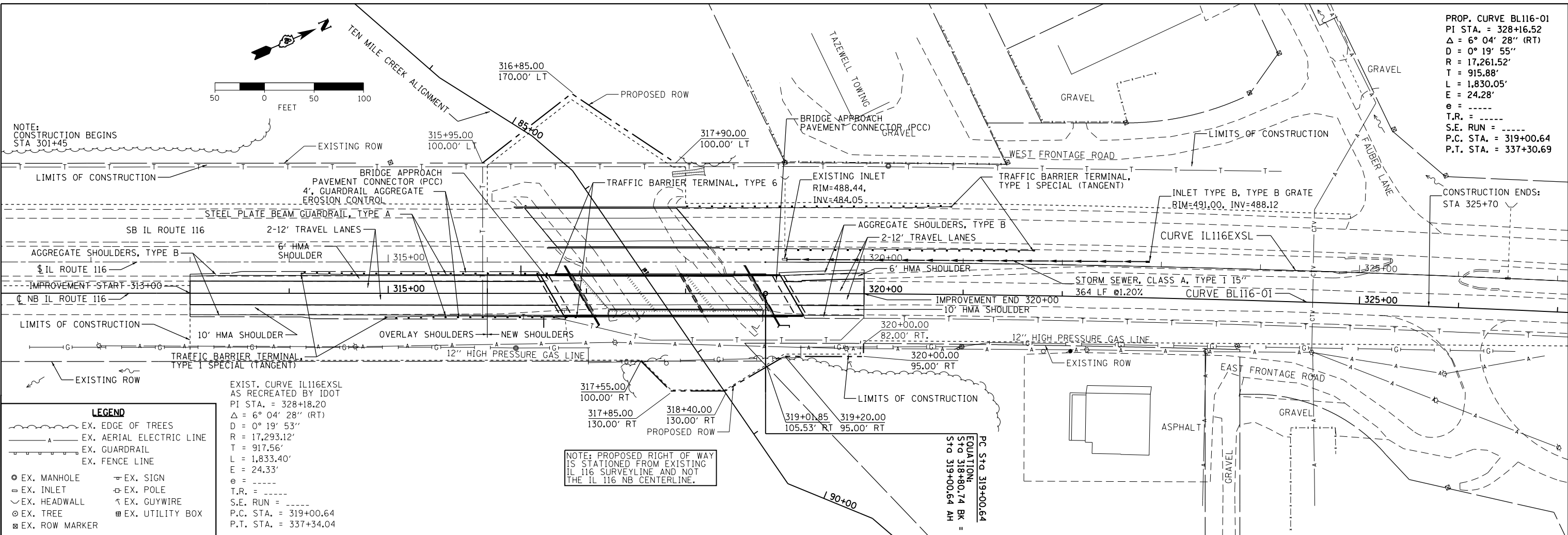
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLANS IL 116 OVER TEN MILE CREEK			
SCALE: NTS	SHEET NO. 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE. 673	SECTION (102B-1BR)	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 20
CONTRACT NO. 68671				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
NOTED	
CHECKED	
ALIGNED	
AS BUILT	
FILE NAME	
NO.	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE	
NOTATIONS	
CHKD	
NO.	



EX. ELEV.	PR. ELEV.	312+00	313+00	314+00	315+00	316+00	317+00	318+00	+50	+80.74	319+50	320+00	321+00	322+00	323+00	324+00	325+00	326+00																
487.62	487.71	487.73	487.95	488.10	488.13	488.33	488.53	488.54	488.80	489.00	489.00	488.72	489.38	489.51	475.90	472.34	490.03	484.97	490.29	490.43	490.74	490.70	490.94	490.94	491.34	491.64	491.93	492.32						



USER NAME = WAH	DESIGNED - CL	REVISED -
	DRAWN - WAH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - KJC/HTL	REVISED -
PLOT DATE = 12/13/2012	DATE = 10/04/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
IL 116 OVER TEN MILE CREEK

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 312+00 TO STA. 327+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	21
CONTRACT NO. 68671				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

T:\Projects\10-221.IDOT-TazBridges-Ten Mile Creek-Phase I\Drawings\CADD Sheets\0468671-sht-plnprf01.dgn

GENERAL NOTES

POSITIVE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.

ACCESS TO ALL ENTRANCES AND SIDEROADS IMPACTED BY THE CONSTRUCTION SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY CLOSURE OF ACCESS MUST BE AGREED TO IN WRITING BY THE PROPERTY OWNER AND A COPY SUBMITTED TO THE ENGINEER.

CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS WHERE REQUIRED TO AVOID CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.

ALL REQUIRED SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL PAY ITEMS.

TEMPORARY PAVEMENT MARKINGS ON THE CROSSOVER PAVEMENT SHALL BE PAINT.

TEMPORARY PAVEMENT MARKINGS ON THE EXISTING PAVEMENT SHALL BE PAVEMENT MARKING TAPE, TYPE III.

SEQUENCE OF CONSTRUCTION

STAGE I

SET UP TRAFFIC CONTROL AND PROTECTION ACCORDING TO HIGHWAY STANDARD 701422. SHIFT SOUTHBOUND TRAFFIC ONTO THE EAST LANE. REMOVE THE HMA SHOULDERS AND GUARDRAIL AT THE LOCATIONS SHOWN ON THE PLANS ON THE WEST SIDE OF THE SOUTHBOUND LANES. MODIFY THE EXISTING PARAPETS ON THE WEST SIDE OF THE SOUTHBOUND STRUCTURE TO ACCOMMODATE TRAFFIC BARRIER TERMINALS. CONSTRUCT HMA SHOULDERS, TEMPORARY AND PERMANENT GUARDRAIL ITEMS AND COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 AT THE LOCATIONS SHOWN ON THE PLANS ON THE WEST SIDE OF THE SOUTHBOUND LANES.

SET UP TRAFFIC CONTROL AND PROTECTION ACCORDING TO HIGHWAY STANDARD 701422. SHIFT NORTHBOUND TRAFFIC ONTO THE EAST LANE AND SOUTHBOUND TRAFFIC ONTO THE WEST LANE.

REMOVE HMA SHOULDERS AND GUARDRAIL AT THE LOCATIONS SHOWN ON THE PLANS ON THE EAST SIDE OF THE SOUTHBOUND LANES AND ON THE WEST SIDE OF THE NORTHBOUND LANES.

MODIFY THE EXISTING PARAPETS ON THE EAST SIDE OF THE SOUTHBOUND STRUCTURE TO ACCOMMODATE TRAFFIC BARRIER TERMINALS.

CONSTRUCT TEMPORARY CROSSOVER, TEMPORARY STEEL PLATE BEAM GUARDRAIL, TEMPORARY TRAFFIC BARRIER TERMINALS, STEEL PLATE BEAM GUARDRAIL, TRAFFIC BARRIER TERMINALS, COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12, DRAINAGE STRUCTURE, STORM SEWERS, TEMPORARY LIGHTING, GRADE AND SHAPE DITCHES AND PLACE TEMPORARY PAVEMENT MARKINGS IN THE MEDIAN AS SHOWN ON THE PLANS.

INSTALL EROSION CONTROL ITEMS AS SHOWN ON THE EROSION CONTROL PLANS.

STAGE II

SET UP TRAFFIC CONTROL AND PROTECTION ACCORDING TO HIGHWAY STANDARDS 701416 AND 701422 AND AS SHOWN ON THE TEMPORARY CROSSOVER PLANS. SHIFT NORTHBOUND AND SOUTHBOUND TRAFFIC AS SHOWN ON THE PLANS.

REMOVE THE EXISTING NORTHBOUND BRIDGE, APPROACH SLABS, PAVEMENT AND SHOULDERS AS SHOWN ON THE PLANS.

CONSTRUCT THE PROPOSED NORTHBOUND BRIDGE, APPROACH SLABS, HMA SHOULDERS, STEEL PLATE BEAM GUARDRAIL, TRAFFIC BARRIER TERMINALS, DRAINAGE STRUCTURES, STRIPING AND SEEDING AS SHOWN ON THE PLANS.

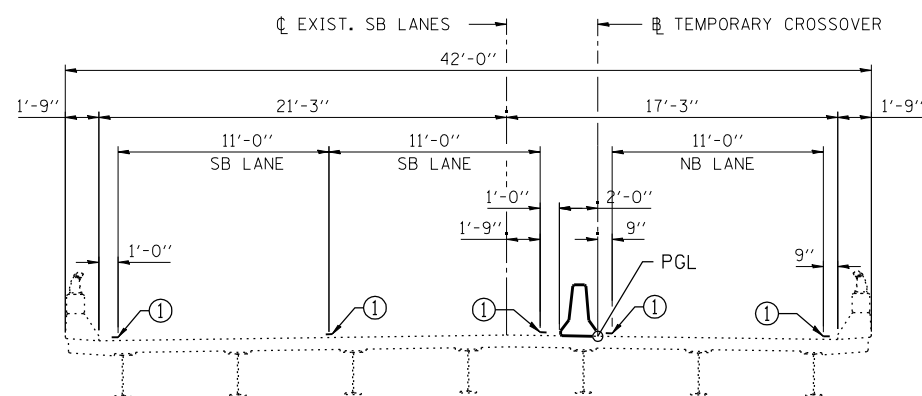
STAGE III

SET UP TRAFFIC CONTROL AND PROTECTION ACCORDING TO HIGHWAY STANDARD 701422. SHIFT NORTHBOUND TRAFFIC ONTO THE EAST LANE AND SOUTHBOUND TRAFFIC ONTO THE WEST LANE.

REMOVE THE TEMPORARY CROSSOVER, TEMPORARY STEEL PLATE BEAM GUARDRAIL, TEMPORARY TRAFFIC BARRIER TERMINALS AND COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 AT THE SOUTHEAST END OF THE SOUTHBOUND STRUCTURE.

CONSTRUCT THE STEEL PLATE BEAM GUARDRAIL, TRAFFIC BARRIER TERMINALS AND COMBINATION CONCRETE CURB AND GUTER, TYPE B-6.12 AT THE NORTHEAST END OF THE SOUTHBOUND STRUCTURE. SEED ALL DISTURBED AREAS.

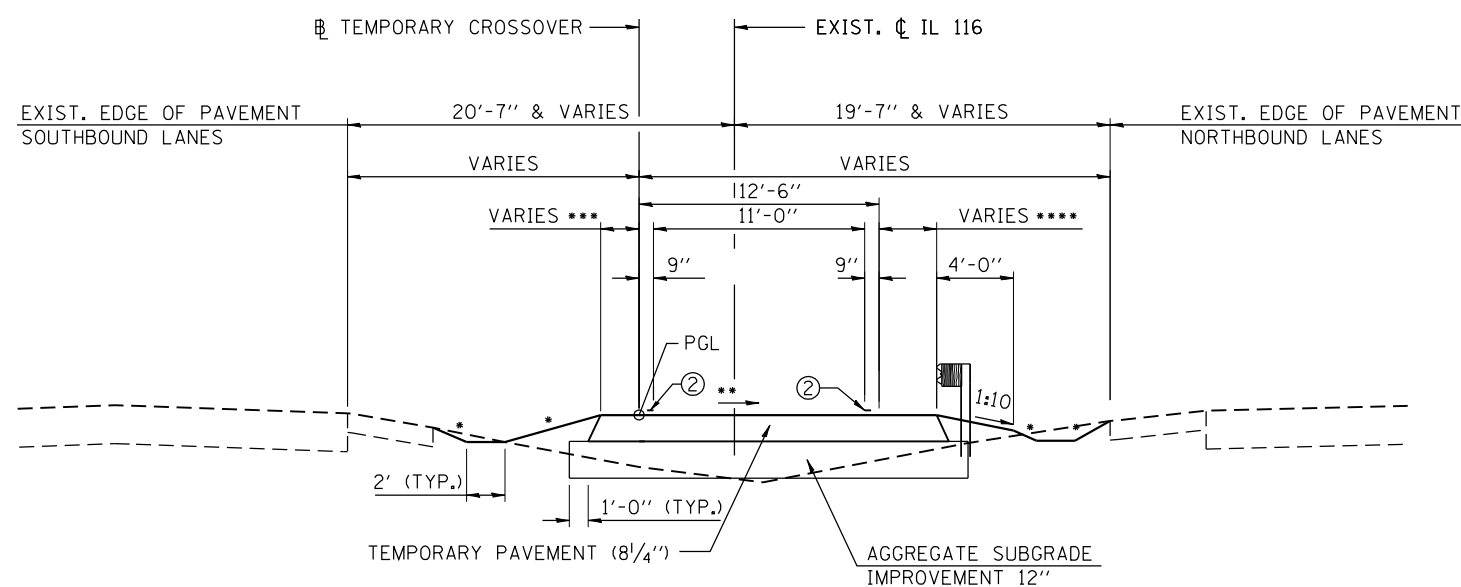
PLACE THE TEMPORARY PAVEMENT MARKINGS ON THE SOUTHBOUND LANES AND CLEANUP.



MAINTENANCE OF TRAFFIC TYPICAL SECTION-STAGE II
EXISTING SOUTHBOUND IL 116 STRUCTURE OVER TEN MILE CREEK
 (LOOKING NORTH)

LEGEND

- ① PAVEMENT MARKING TAPE, TYPE III 4"
- ② TEMPORARY PAVEMENT MARKING - LINE 4"



MAINTENANCE OF TRAFFIC TYPICAL SECTION-STAGE II
TEMPORARY CROSSOVER
 (LOOKING NORTH)

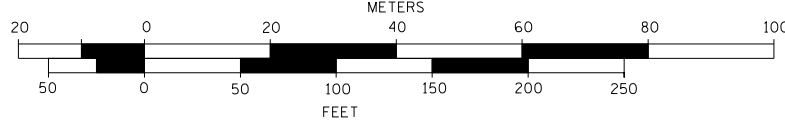
* 1:4 & VARIES

- ** PAVEMENT SLOPE TRANSITION
- +1.5% AT STA. 0+00
- +1.5% AT STA. 2+75
- 0.00% AT STA. 3+15
- 1.5% AT STA. 3+55
- 1.5% AT STA. 11+97
- 0.00% AT STA. 12+37
- +1.5% AT STA. 12+77
- +1.5% AT STA. 13+67

*** 2' AND VARIES FROM STA. 0+00 TO STA. 4+23
 3' AND VARIES FROM STA. 11+38 TO STA. 13+68

**** 3' AND VARIES FROM STA. 2+12 TO STA. 7+43
 2' AND VARIES FROM STA. 9+16 TO STA. 12+77

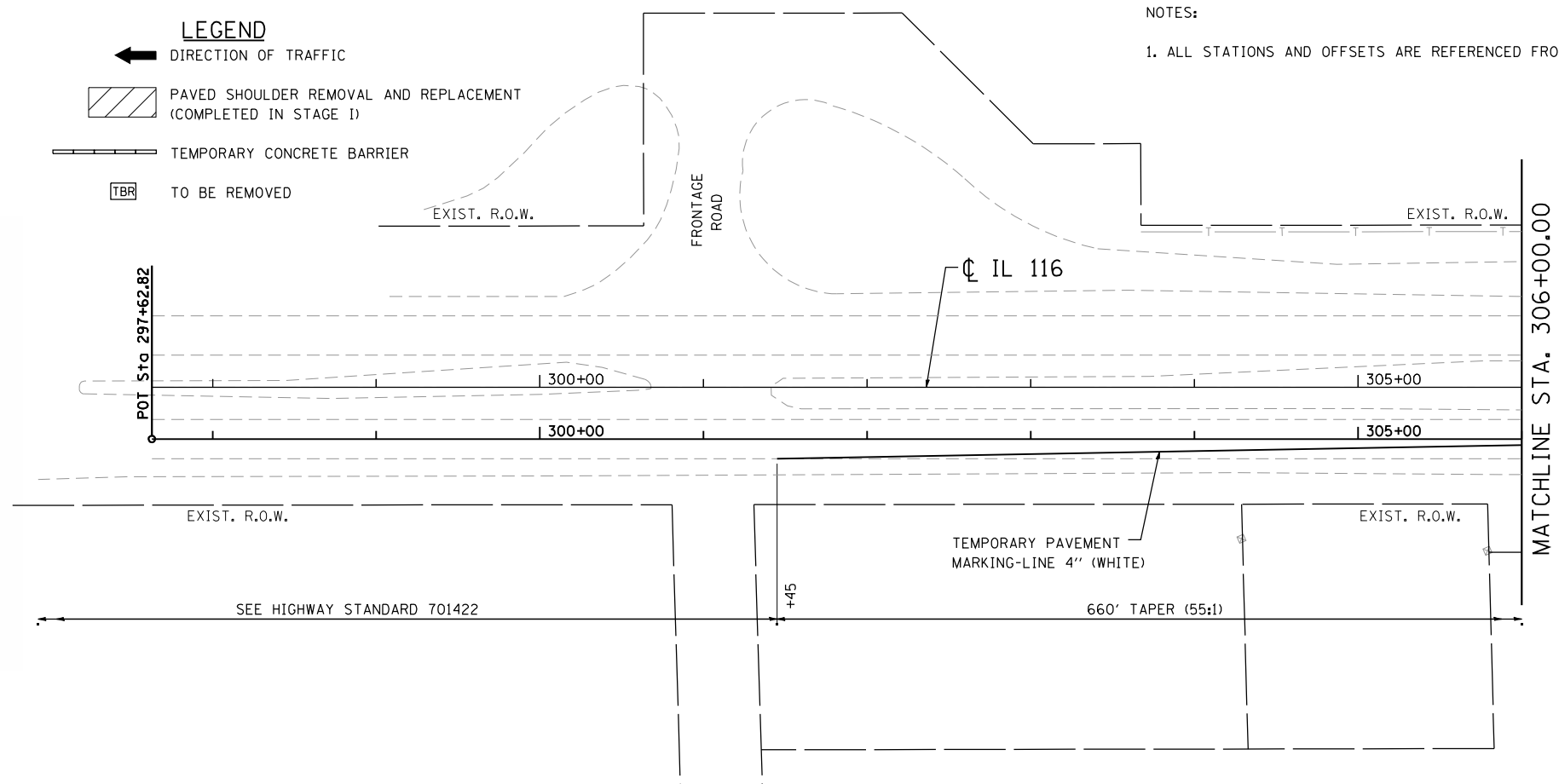
GRAPHIC SCALE



LEGEND

- DIRECTION OF TRAFFIC
- PAVED SHOULDER REMOVAL AND REPLACEMENT (COMPLETED IN STAGE I)
- TEMPORARY CONCRETE BARRIER
- TO BE REMOVED

NOTES:
1. ALL STATIONS AND OFFSETS ARE REFERENCED FROM C IL 116.



ALIGNMENT EQUATIONS

BASELINE	CENTERLINE
TEMPORARY	EXISTING
CROSSOVER	IL 116
PC STA. 0+00.00	19.10' RT. STA. 309+20.00
PI STA. 1+30.98	19.10' RT. STA. 310+50.98
PT STA. 2+61.52	0.50' RT. STA. 311+80.64
PC STA. 3+30.97	9.37' LT. STA. 312+49.38
PI STA. 4+62.85	28.10' LT. STA. 313+79.92
PT STA. 5+94.28	28.10' LT. STA. 315+11.80
PC STA. 9+62.56	28.10' LT. STA. 318+80.09
PI STA. 11+02.86	28.66' LT. STA. 320+40.06
PT STA. 12+42.62	9.15' LT. STA. 321+78.84
PC STA. 13+51.82	5.26' RT. STA. 322+87.07
PI STA. 14+59.17	18.77' RT. STA. 323+93.64
PT STA. 15+66.27	19.25' RT. STA. 325+01.10

PROP. CURVE STAGE-1
 PI STA. = 1+30.98
 $\Delta = 8^\circ 09' 57''$ (LT)
 $D = 3^\circ 07' 21''$
 $R = 1,835.00'$
 $T = 130.98'$
 $L = 261.52'$
 $E = 4.67'$
 $e = N.C.$
 P.C. STA. = 0+00.00
 P.T. STA. = 2+61.52

PROP. CURVE STAGE-2
 PI STA. = 4+62.85
 $\Delta = 8^\circ 09' 57''$ (RT)
 $D = 3^\circ 06' 05''$
 $R = 1,847.50'$
 $T = 131.87'$
 $L = 263.30'$
 $E = 4.70'$
 $e = N.C.$
 P.C. STA. = 3+30.97
 P.T. STA. = 5+94.28

PLAN	SURVEYED	DATE
	GRADES CHECKED	
	STRUCTURE NOT AT THIS CHFD	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	
	STRUCTURE NOT AT THIS CHFD	

STATION	505	500	495	490	485	480	475	470	465

design firm **whks** engineers + planners + land surveyors

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IL ROUTE 116 OVER TEN MILE CREEK TEMPORARY CROSSOVER PLAN AND PROFILE

SCALE: 1" = 50" SHEET NO. 1 OF 3 SHEETS STA. 297+62.82 TO STA. 306+00.00

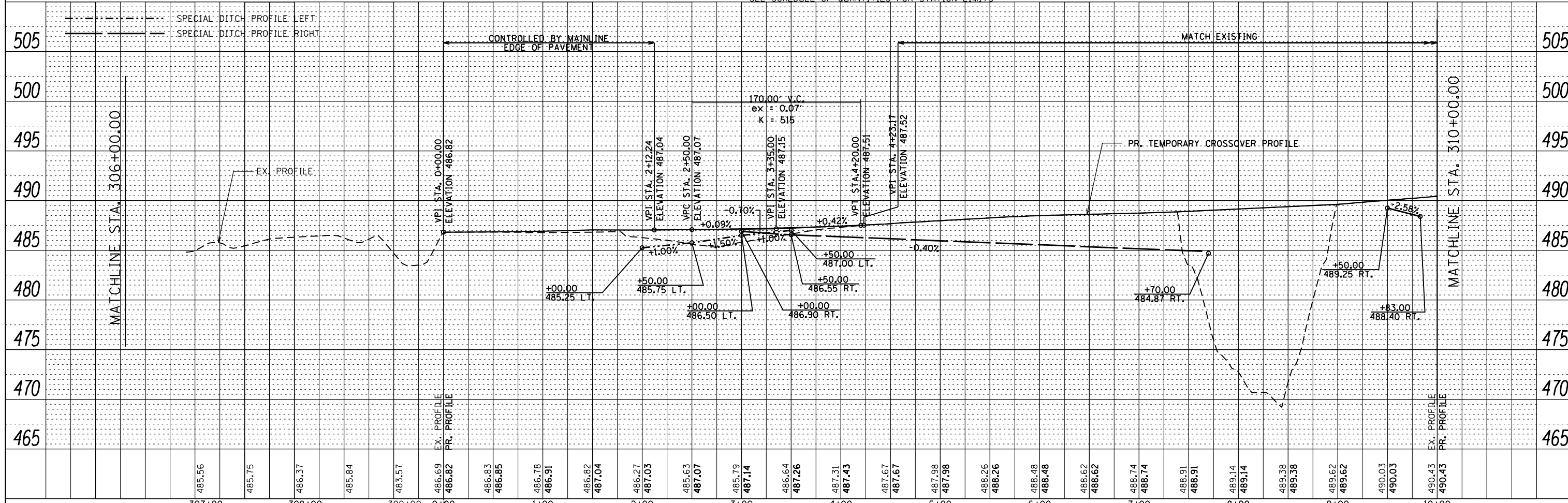
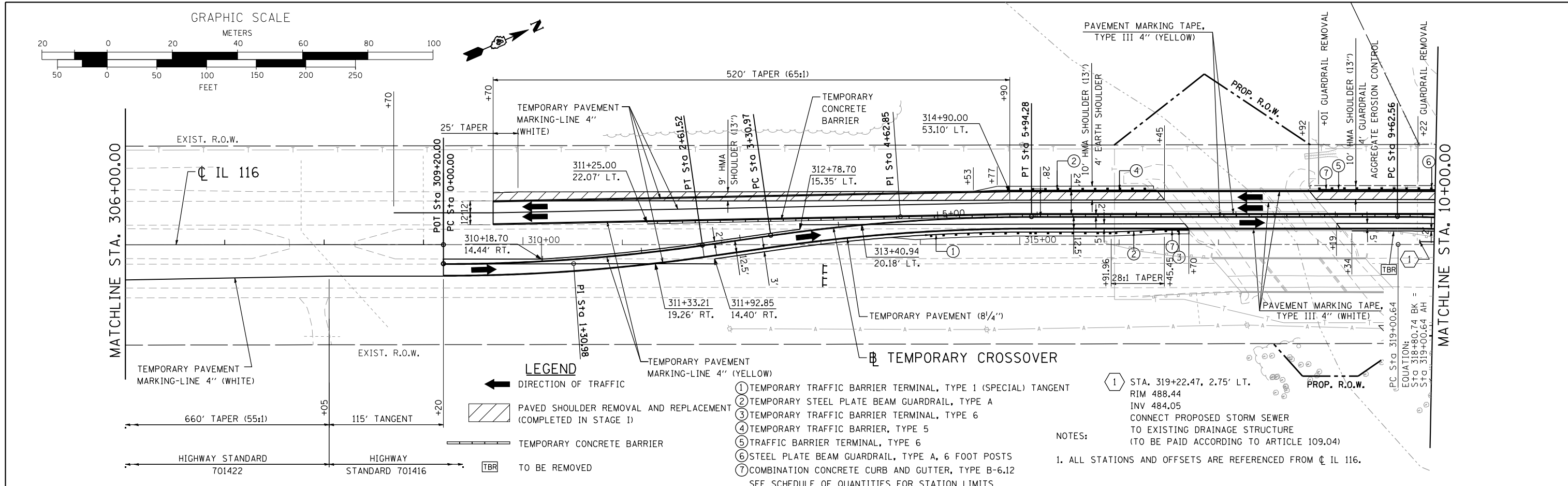
USER NAME = bmothies	DESIGNED -	REVISED
FILE NAME = D468671-sh-t-MOT.dgn	CHECKED -	REVISED
PLOT SCALE = 100.0000 "/>		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	23

CONTRACT NO. 68671 ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	AT		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	AT		
	FILE NAME		
	NO.		



design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = bmoethies	DESIGNED -	REVISED
FILE NAME = D468671-sh1-MDT.dgn	CHECKED -	REVISED
PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 12/13/2012	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

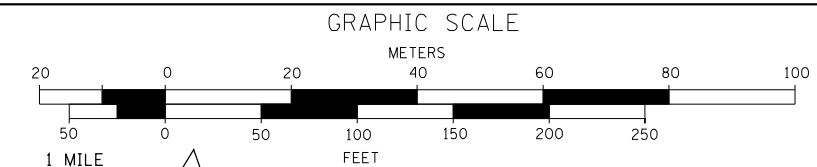
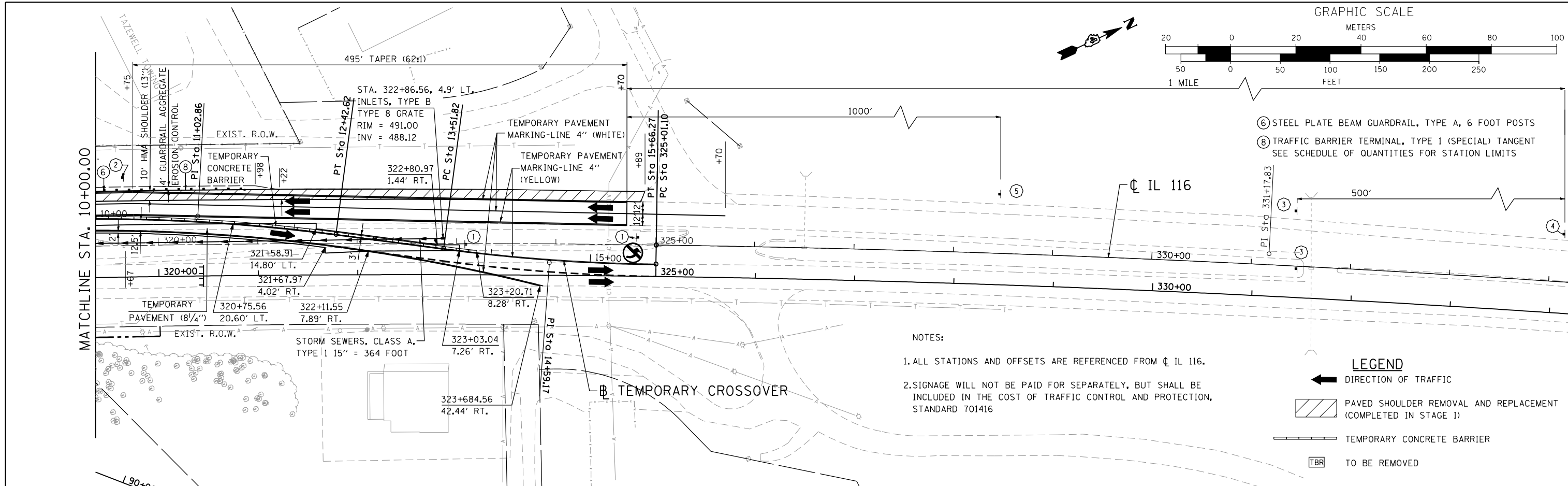
**IL ROUTE 116 OVER TEN MILE CREEK
TEMPORARY CROSSOVER PLAN AND PROFILE**

SCALE: 1" = 50' SHEET NO. 2 OF 3 SHEETS STA. 306+00.00 TO STA. 10+00.00

F.A.P. RTE. 673	SECTION (102B-1)BR	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 24
CONTRACT NO. 68671				ILLINOIS FED. AID PROJECT

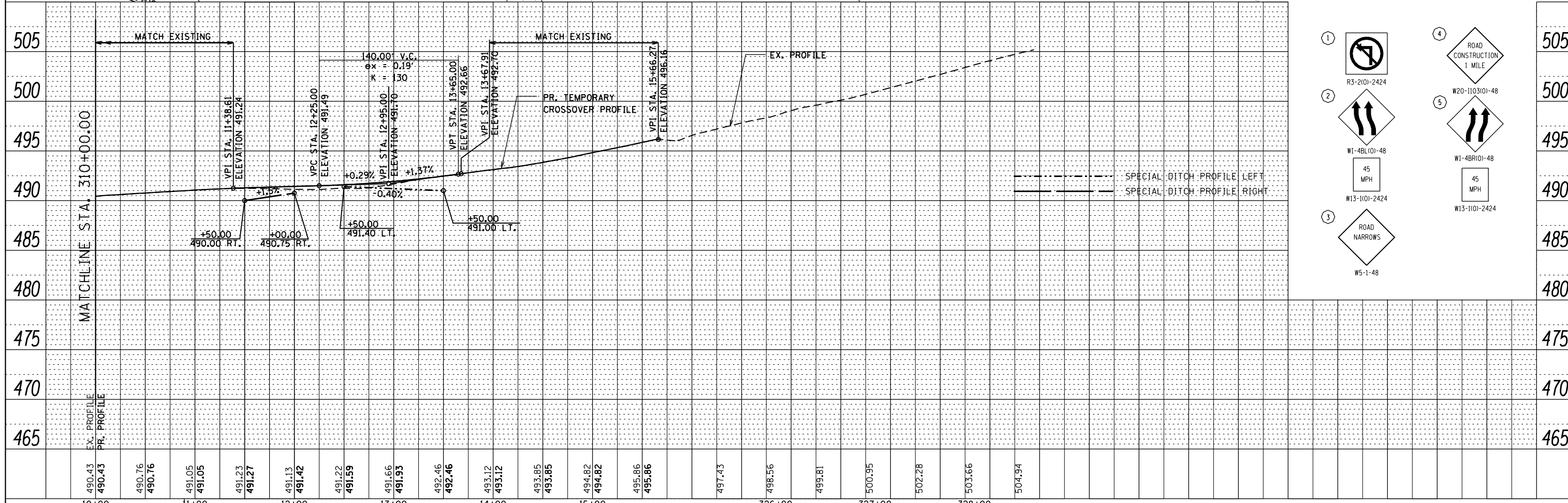
PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	AT	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	STRUCTURE	
	NOTATIS CHFD	
	NO.	

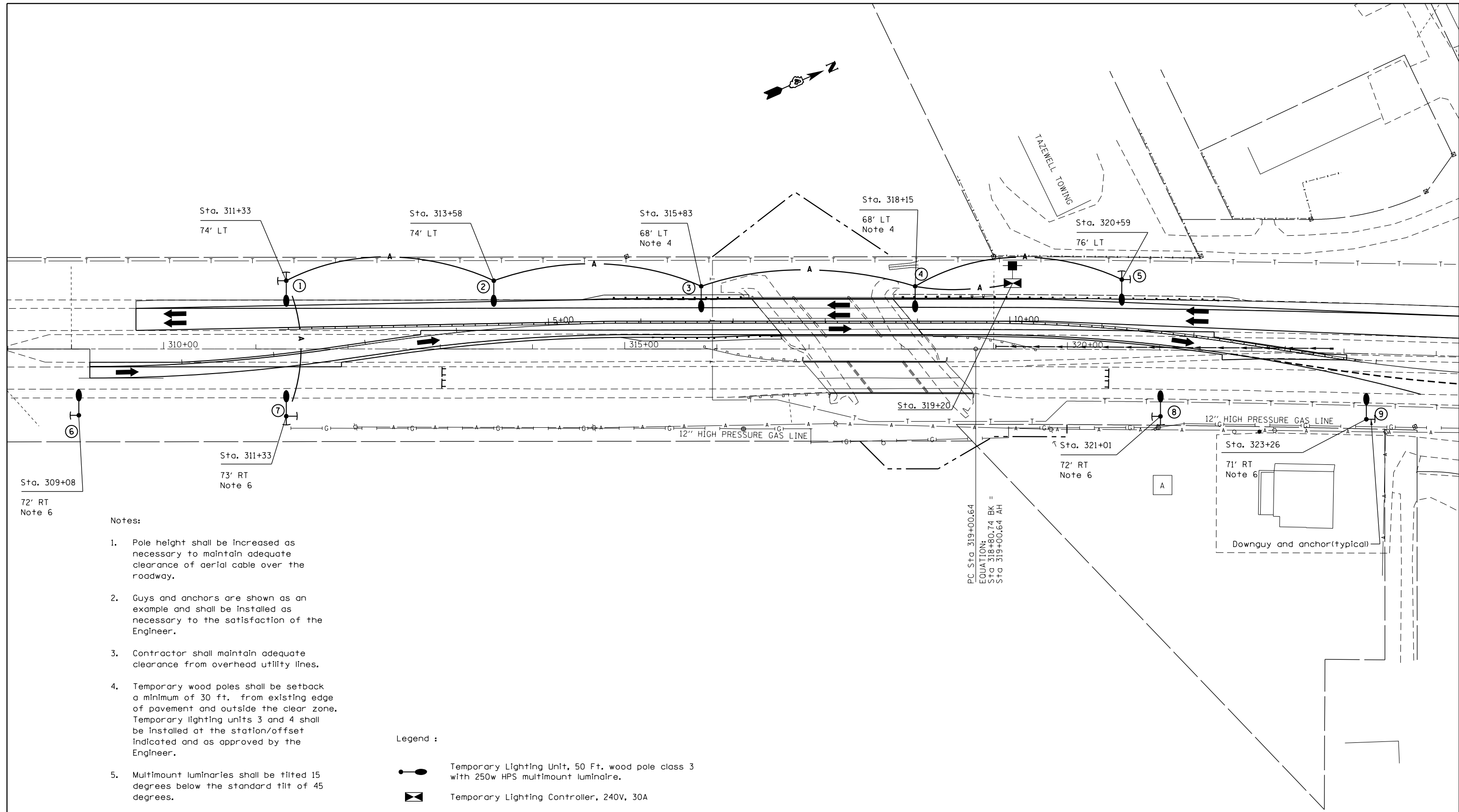


- NOTES:
- ALL STATIONS AND OFFSETS ARE REFERENCED FROM CL IL 116 .
 - SIGNAGE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701416

- LEGEND
- DIRECTION OF TRAFFIC
 - PAVED SHOULDER REMOVAL AND REPLACEMENT (COMPLETED IN STAGE 1)
 - TEMPORARY CONCRETE BARRIER
 - TO BE REMOVED



- 1 R3-2(0)-2424
- 2 W1-4B(0)-48
- 3 W13-1(0)-2424
- 4 W20-11(0)-48
- 5 W1-4B(0)-48
- 6 W13-1(0)-2424
- 7 W5-1-48



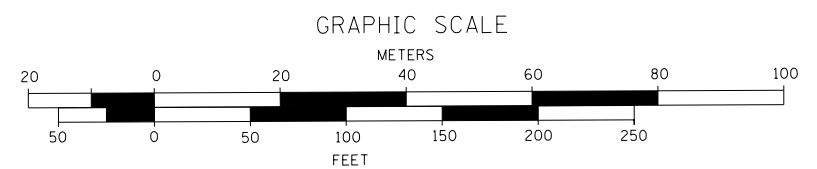
Notes:

1. Pole height shall be increased as necessary to maintain adequate clearance of aerial cable over the roadway.
2. Guys and anchors are shown as an example and shall be installed as necessary to the satisfaction of the Engineer.
3. Contractor shall maintain adequate clearance from overhead utility lines.
4. Temporary wood poles shall be setback a minimum of 30 ft. from existing edge of pavement and outside the clear zone. Temporary lighting units 3 and 4 shall be installed at the station/offset indicated and as approved by the Engineer.
5. Multimount luminaries shall be tilted 15 degrees below the standard tilt of 45 degrees.
6. The poles on the east side shall be installed no earlier than 1 week prior to northbound traffic being switched to the crossover.

Legend :

- Temporary Lighting Unit, 50 Ft. wood pole class 3 with 250w HPS multimount luminaire.
- Temporary Lighting Controller, 240V, 30A
- Temporary Electric Service Installation, 240V, 30A
- Aerial cable, 2-1/C No. 4 aluminum with messenger wire

Quantities :
X8410102 Temporary Lighting System L Sum



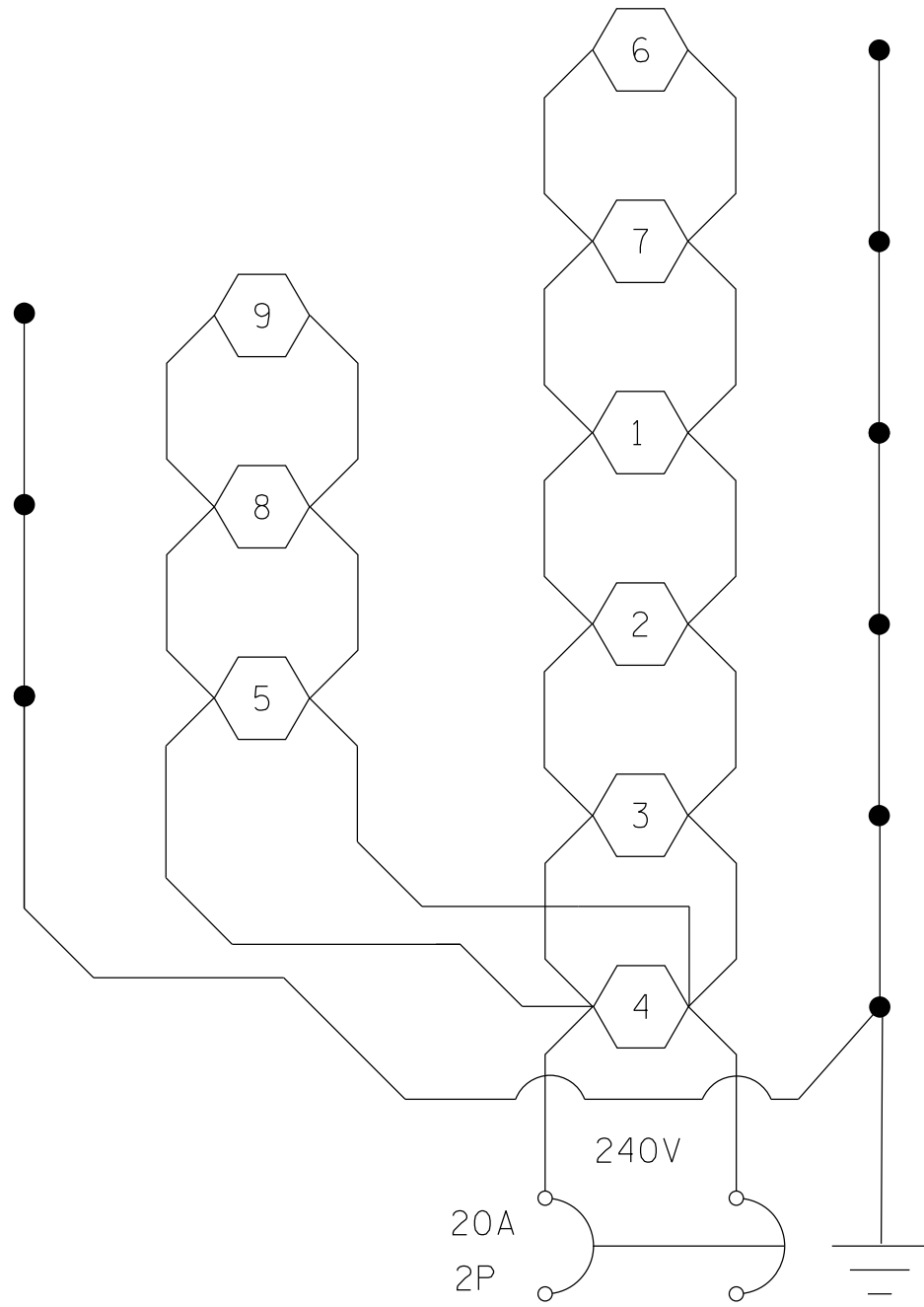
FILE NAME = D468671-sht-temp lighting-01.dgn	USER NAME = WAH	DESIGNED - IDOT	REVISED -
Default	PLOT SCALE = 100.000' / in.	DRAWN -	REVISED -
	PLOT DATE = 12/13/2012	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY LIGHTING DETAIL

SCALE: 50 : 1 SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	27
CONTRACT NO. 68671				
ILLINOIS FED. AID PROJECT				



CIRCUIT DIAGRAM

Not to scale

FILE NAME = D468671-shr-temp lighting-03.dgn	USER NAME = WAH	DESIGNED - IDOT	REVISED -
		DRAWN -	REVISED -
Default	PLOT SCALE = 100.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/13/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY LIGHTING DETAIL

SHEET 3 OF 3 SHEETS STA. TO STA.

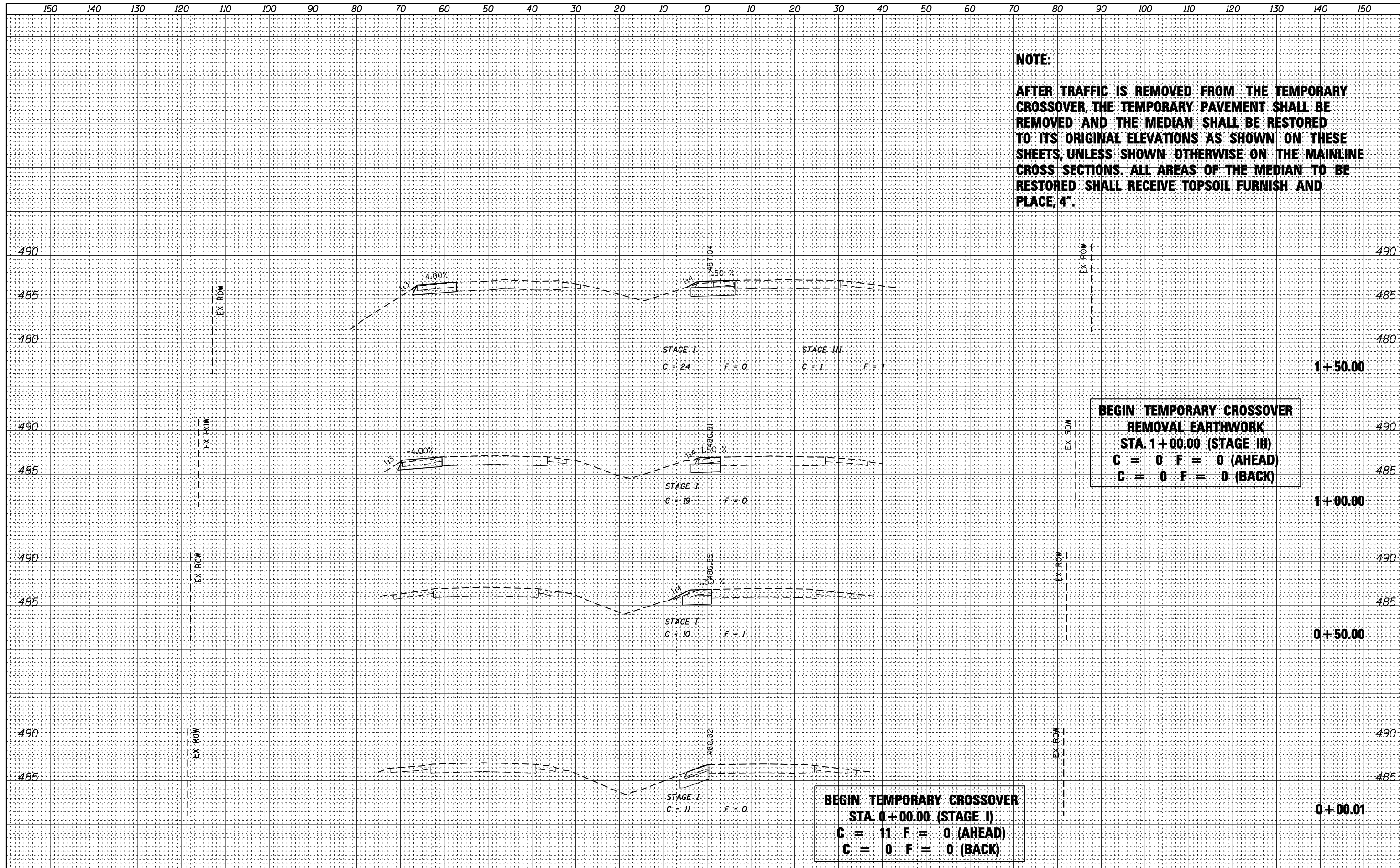
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	29
				CONTRACT NO. 68671
ILLINOIS FED. AID PROJECT				

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

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

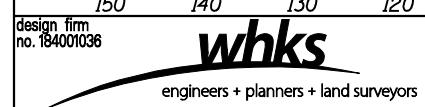
NOTE:

AFTER TRAFFIC IS REMOVED FROM THE TEMPORARY CROSSOVER, THE TEMPORARY PAVEMENT SHALL BE REMOVED AND THE MEDIAN SHALL BE RESTORED TO ITS ORIGINAL ELEVATIONS AS SHOWN ON THESE SHEETS, UNLESS SHOWN OTHERWISE ON THE MAINLINE CROSS SECTIONS. ALL AREAS OF THE MEDIAN TO BE RESTORED SHALL RECEIVE TOPSOIL FURNISH AND PLACE, 4".



**BEGIN TEMPORARY CROSSOVER
 REMOVAL EARTHWORK
 STA. 1+00.00 (STAGE III)
 C = 0 F = 0 (AHEAD)
 C = 0 F = 0 (BACK)**

**BEGIN TEMPORARY CROSSOVER
 STA. 0+00.00 (STAGE I)
 C = 11 F = 0 (AHEAD)
 C = 0 F = 0 (BACK)**



USER NAME = bmatthies	DESIGNED -	REVISED -
FILE NAME = D468671-shr-xssht_MOT.dwg	CHECKED -	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 12/13/2012	CHECKED -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 116 OVER TEN MILE CREEK
 TEMPORARY CROSSOVER CROSS SECTIONS**
 SCALE: 1" = 10'
 SHEET NO. 1 OF 9 SHEETS
 STA. 0+00.00 TO STA. 1+50.00

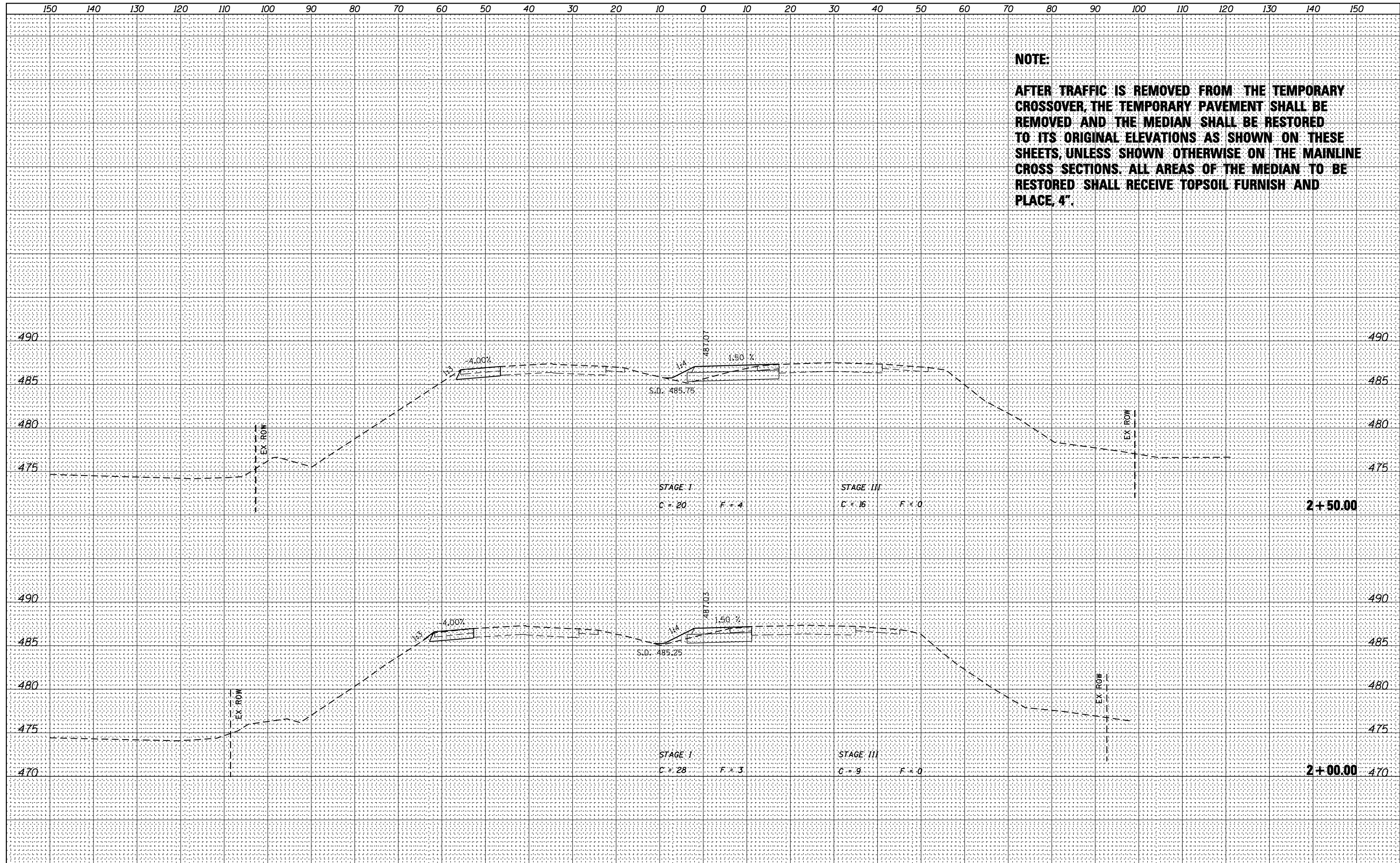
F.A.P. RTE. 673	SECTION (102B-1)BR	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 30
				CONTRACT NO. 68671

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

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

NOTE:

AFter TRAFFIC IS REMOVED FROM THE TEMPORARY CROSSOVER, THE TEMPORARY PAVEMENT SHALL BE REMOVED AND THE MEDIAN SHALL BE RESTORED TO ITS ORIGINAL ELEVATIONS AS SHOWN ON THESE SHEETS, UNLESS SHOWN OTHERWISE ON THE MAINLINE CROSS SECTIONS. ALL AREAS OF THE MEDIAN TO BE RESTORED SHALL RECEIVE TOPSOIL FURNISH AND PLACE, 4".

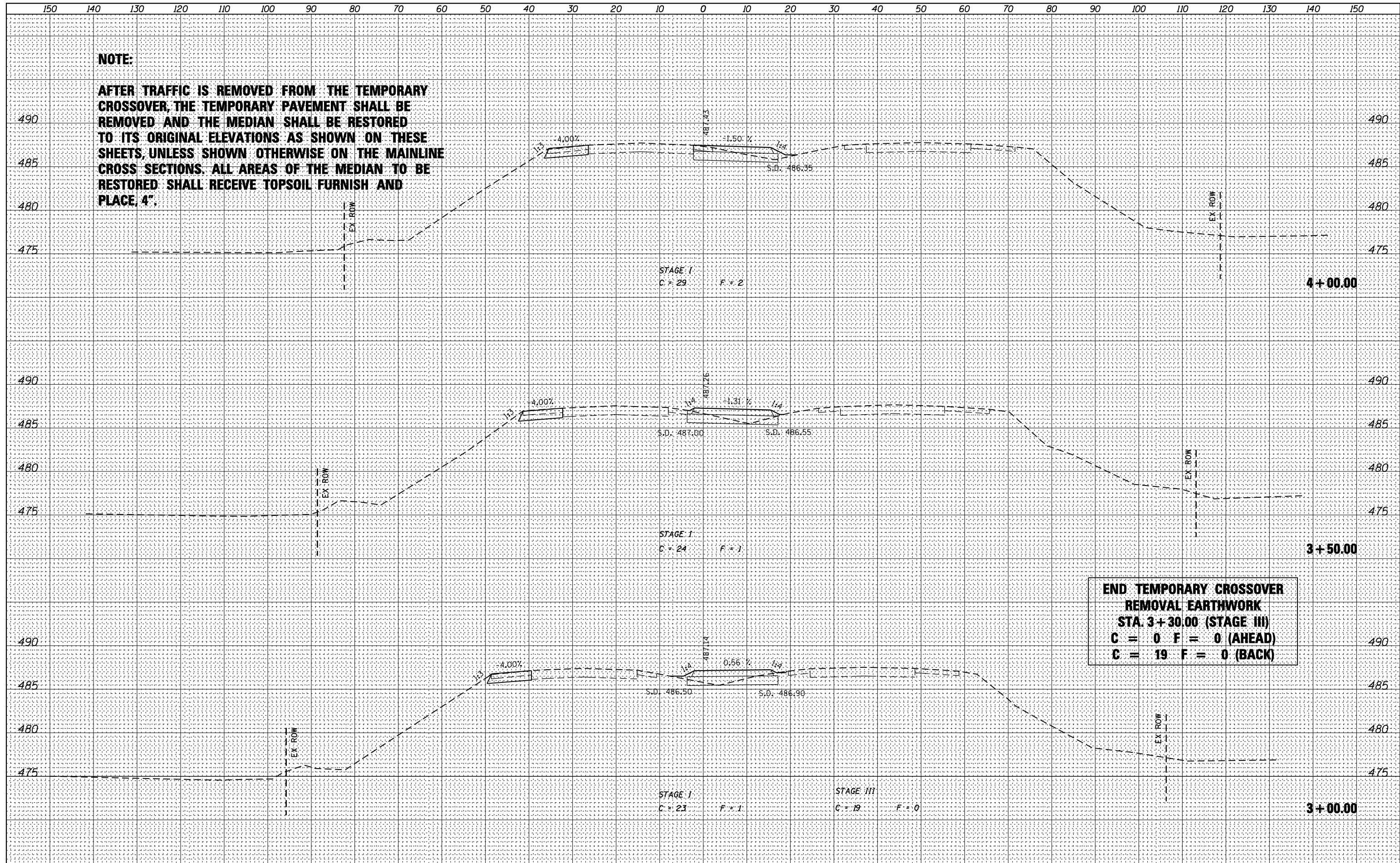


NOTE:

AFTER TRAFFIC IS REMOVED FROM THE TEMPORARY CROSSOVER, THE TEMPORARY PAVEMENT SHALL BE REMOVED AND THE MEDIAN SHALL BE RESTORED TO ITS ORIGINAL ELEVATIONS AS SHOWN ON THESE SHEETS, UNLESS SHOWN OTHERWISE ON THE MAINLINE CROSS SECTIONS. ALL AREAS OF THE MEDIAN TO BE RESTORED SHALL RECEIVE TOPSOIL FURNISH AND PLACE, 4".

DATE	BY
NO.	AREAS CHECKED
NO.	AREAS CHECKED
NO.	AREAS CHECKED

DATE	BY
NO.	AREAS CHECKED
NO.	AREAS CHECKED
NO.	AREAS CHECKED



design firm
no. 184001036
whks
engineers + planners + land surveyors

USER NAME = bmatthies	DESIGNED -	REVISED -
FILE NAME = D468671-sht-xssht_MOT.dwg	CHECKED -	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 12/13/2012	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 116 OVER TEN MILE CREEK
TEMPORARY CROSSOVER CROSS SECTIONS**

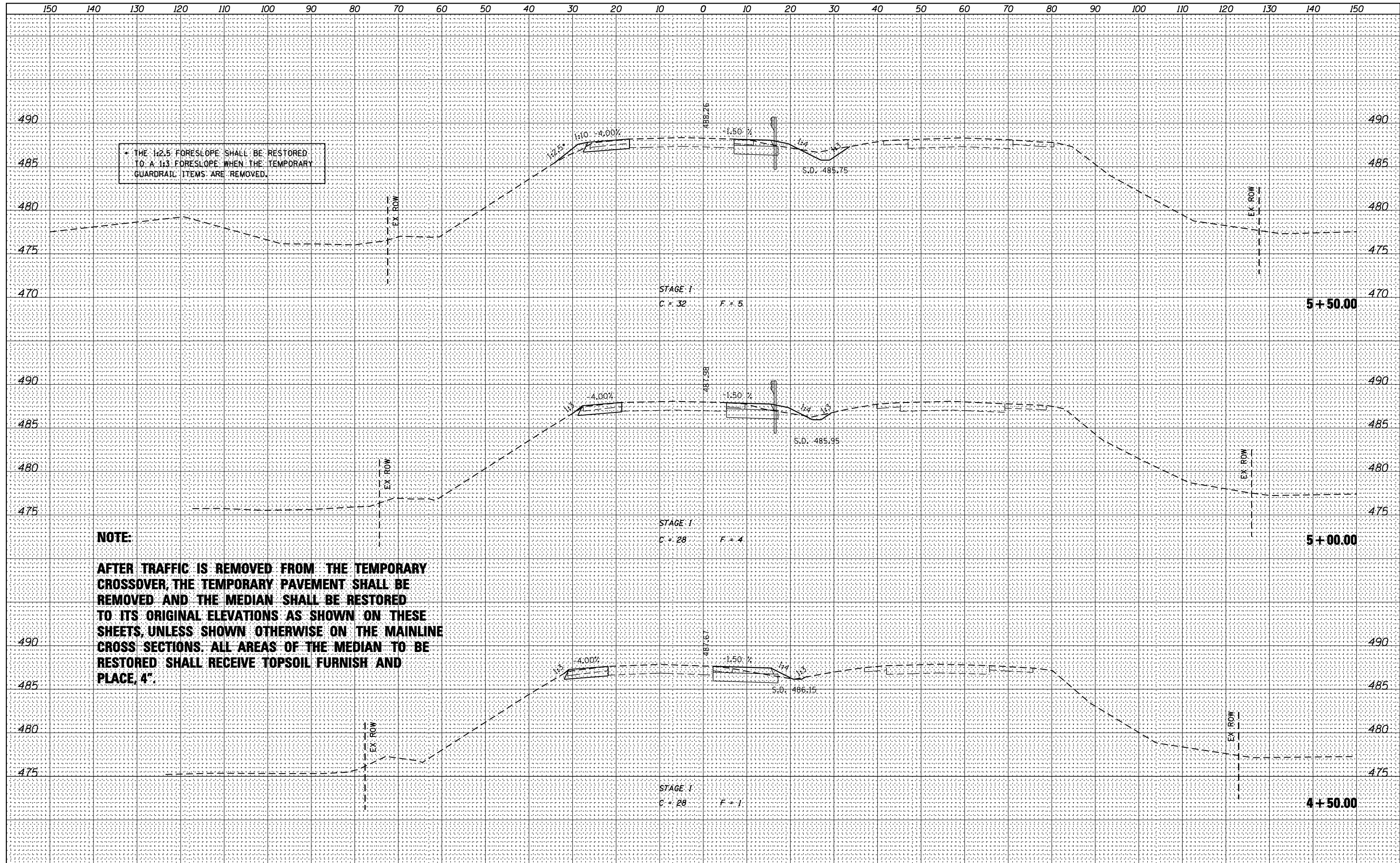
SCALE: 1" = 10' SHEET NO. 3 OF 9 SHEETS STA. 3+00.00 TO STA. 4+00.00

F.A.P. RTE. 673	SECTION (102B-1BR)	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 32
CONTRACT NO. 68671				

ILLINOIS FED. AID PROJECT

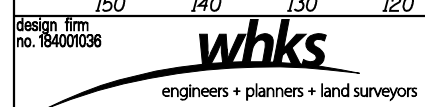
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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



THE 1:2.5 FORESLOPE SHALL BE RESTORED TO A 1:3 FORESLOPE WHEN THE TEMPORARY GUARDRAIL ITEMS ARE REMOVED.

NOTE:
 AFTER TRAFFIC IS REMOVED FROM THE TEMPORARY CROSSOVER, THE TEMPORARY PAVEMENT SHALL BE REMOVED AND THE MEDIAN SHALL BE RESTORED TO ITS ORIGINAL ELEVATIONS AS SHOWN ON THESE SHEETS, UNLESS SHOWN OTHERWISE ON THE MAINLINE CROSS SECTIONS. ALL AREAS OF THE MEDIAN TO BE RESTORED SHALL RECEIVE TOPSOIL FURNISH AND PLACE, 4".



USER NAME = bmatthies	DESIGNED -	REVISED -
FILE NAME = D468671-shr-xssht_MOT.dwg	CHECKED -	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 12/13/2012	CHECKED -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 116 OVER TEN MILE CREEK
 TEMPORARY CROSSOVER CROSS SECTIONS

SCALE: 1" = 10'
 SHEET NO. 4 OF 9 SHEETS
 STA. 4+50.00 TO STA. 5+50.00

F.A.P. RTE. 673	SECTION (102B-1)BR	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 33
CONTRACT NO. 68671				

ILLINOIS FED. AID PROJECT

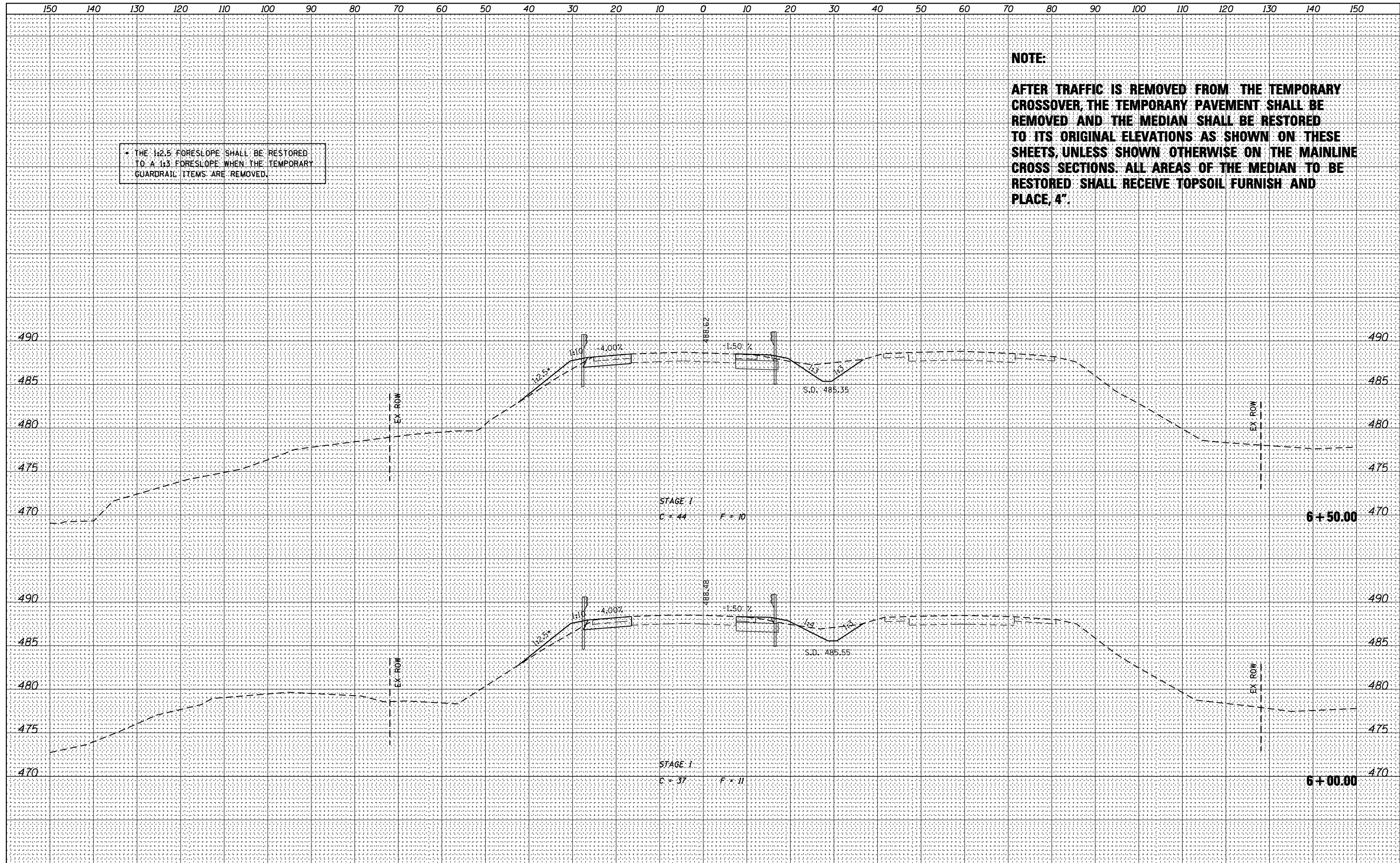
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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

THE 1:2.5 FORESLOPE SHALL BE RESTORED TO A 1:3 FORESLOPE WHEN THE TEMPORARY GUARDRAIL ITEMS ARE REMOVED.

NOTE:

AFTER TRAFFIC IS REMOVED FROM THE TEMPORARY CROSSOVER, THE TEMPORARY PAVEMENT SHALL BE REMOVED AND THE MEDIAN SHALL BE RESTORED TO ITS ORIGINAL ELEVATIONS AS SHOWN ON THESE SHEETS, UNLESS SHOWN OTHERWISE ON THE MAINLINE CROSS SECTIONS. ALL AREAS OF THE MEDIAN TO BE RESTORED SHALL RECEIVE TOPSOIL FURNISH AND PLACE, 4".



design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = bmatthies	DESIGNED -	REVISED
FILE NAME = D468671-shr-xssht_MOT.dwg	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 12/13/2012	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 116 OVER TEN MILE CREEK
TEMPORARY CROSSOVER CROSS SECTIONS**

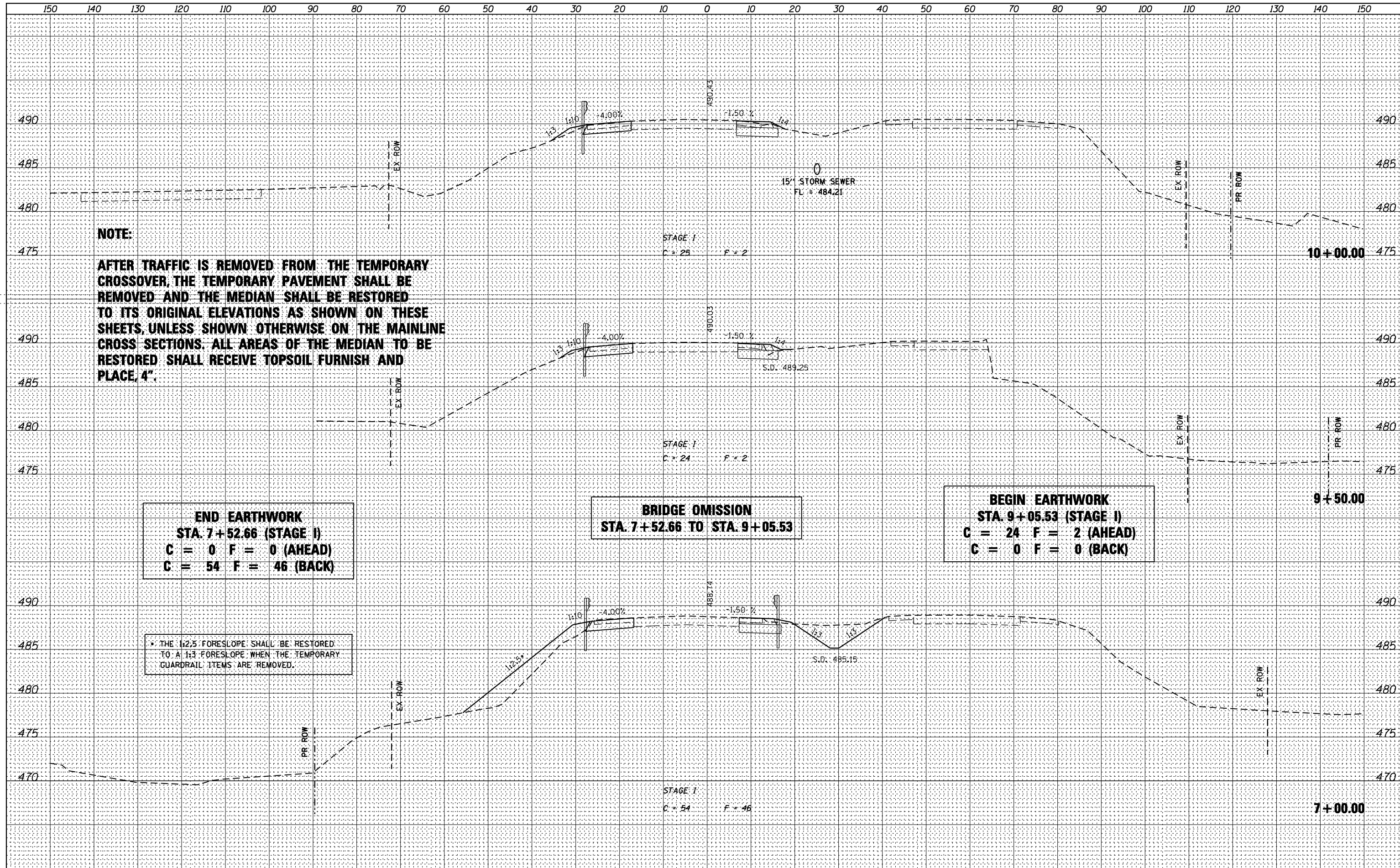
SCALE: 1" = 10' SHEET NO. 5 OF 9 SHEETS STA. 6+00.00 TO STA. 6+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	34
CONTRACT NO. 68671				

ILLINOIS FED. AID PROJECT

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

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



NOTE:
AFTER TRAFFIC IS REMOVED FROM THE TEMPORARY CROSSOVER, THE TEMPORARY PAVEMENT SHALL BE REMOVED AND THE MEDIAN SHALL BE RESTORED TO ITS ORIGINAL ELEVATIONS AS SHOWN ON THESE SHEETS, UNLESS SHOWN OTHERWISE ON THE MAINLINE CROSS SECTIONS. ALL AREAS OF THE MEDIAN TO BE RESTORED SHALL RECEIVE TOPSOIL FURNISH AND PLACE, 4".

**END EARTHWORK
 STA. 7+52.66 (STAGE I)
 C = 0 F = 0 (AHEAD)
 C = 54 F = 46 (BACK)**

**BRIDGE OMISSION
 STA. 7+52.66 TO STA. 9+05.53**

**BEGIN EARTHWORK
 STA. 9+05.53 (STAGE I)
 C = 24 F = 2 (AHEAD)
 C = 0 F = 0 (BACK)**

• THE 1:2.5 FORESLOPE SHALL BE RESTORED TO A 1:3 FORESLOPE WHEN THE TEMPORARY GUARDRAIL ITEMS ARE REMOVED.

USER NAME = bmatthies	DESIGNED -	REVISED
FILE NAME = D468671-sht-xssht_MOT.dwg	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 12/13/2012	CHECKED -	REVISED

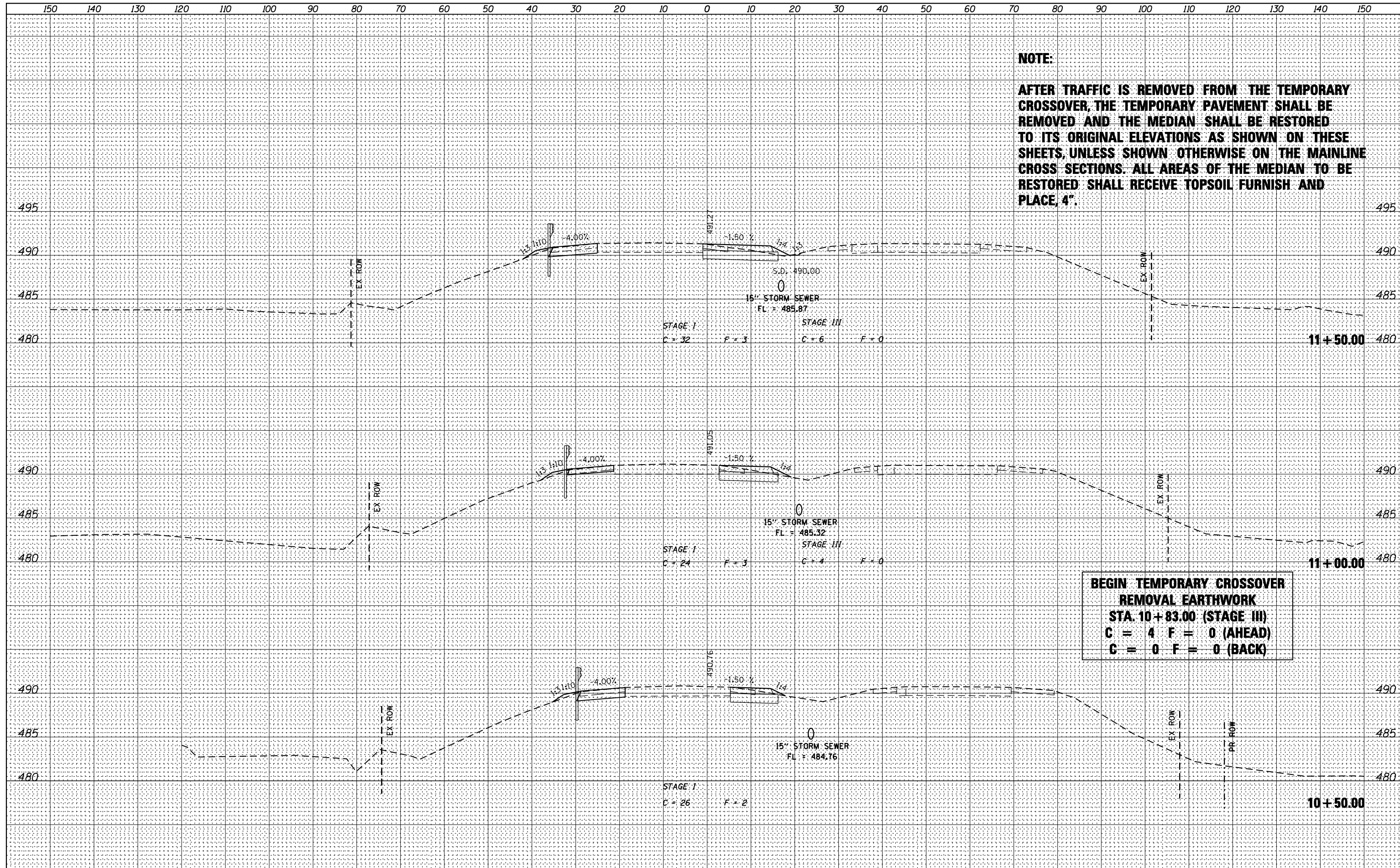
F.A.P. RTE. 673	SECTION (102B-1)BR	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 35
CONTRACT NO. 68671				
ILLINOIS FED. AID PROJECT				

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

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

NOTE:

AFTER TRAFFIC IS REMOVED FROM THE TEMPORARY CROSSOVER, THE TEMPORARY PAVEMENT SHALL BE REMOVED AND THE MEDIAN SHALL BE RESTORED TO ITS ORIGINAL ELEVATIONS AS SHOWN ON THESE SHEETS, UNLESS SHOWN OTHERWISE ON THE MAINLINE CROSS SECTIONS. ALL AREAS OF THE MEDIAN TO BE RESTORED SHALL RECEIVE TOPSOIL FURNISH AND PLACE, 4".



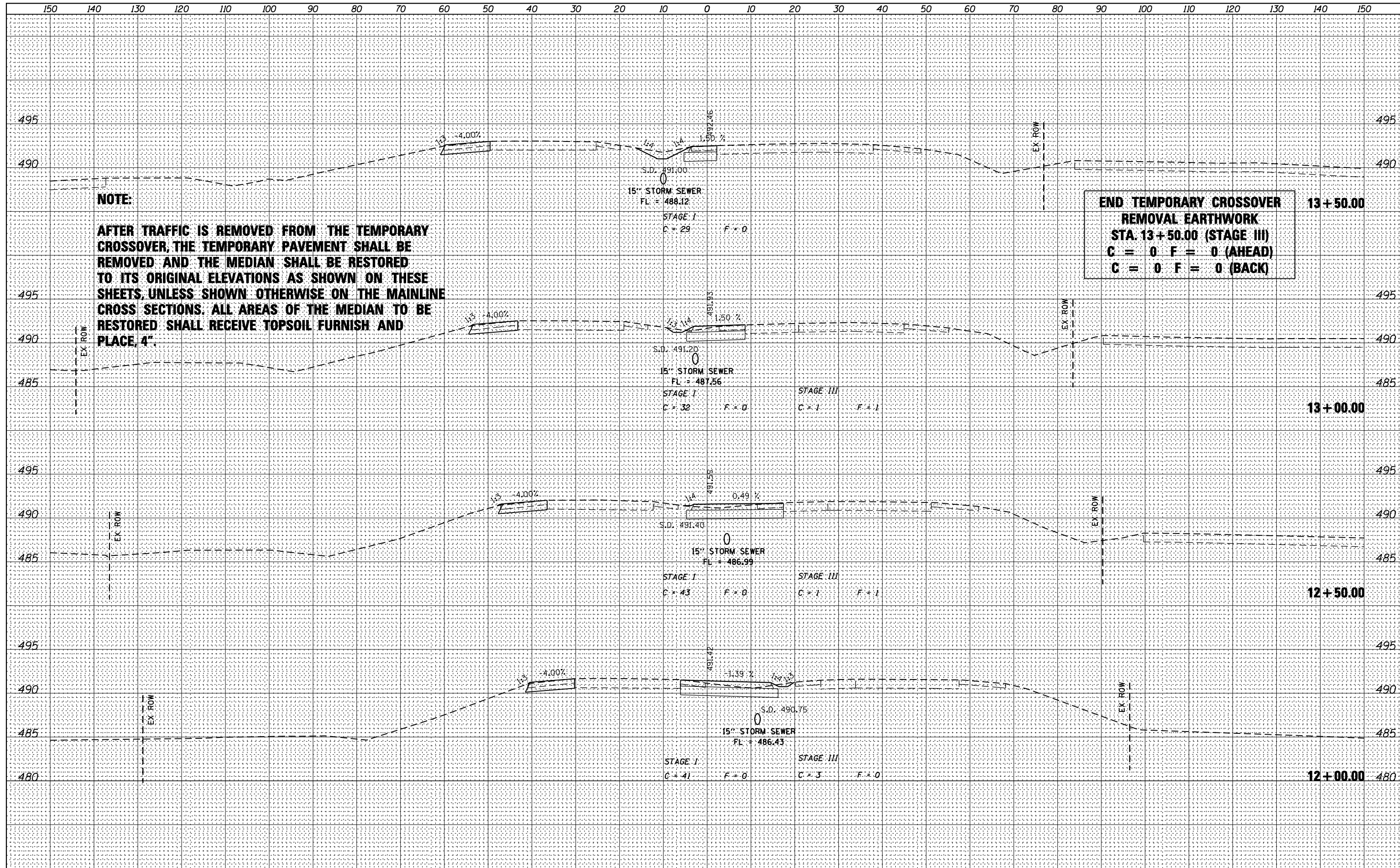
**BEGIN TEMPORARY CROSSOVER
REMOVAL EARTHWORK
STA. 10+83.00 (STAGE III)
C = 4 F = 0 (AHEAD)
C = 0 F = 0 (BACK)**

USER NAME = bmatthies	DESIGNED -	REVISED
FILE NAME = D468671-shr-xssht_MOT.dwg	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 12/13/2012	CHECKED -	REVISED

F.A.P. RTE. 673	SECTION (102B-1BR)	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 36
CONTRACT NO. 68671				ILLINOIS FED. AID PROJECT

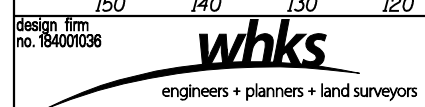
DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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



NOTE:
AFTER TRAFFIC IS REMOVED FROM THE TEMPORARY CROSSOVER, THE TEMPORARY PAVEMENT SHALL BE REMOVED AND THE MEDIAN SHALL BE RESTORED TO ITS ORIGINAL ELEVATIONS AS SHOWN ON THESE SHEETS, UNLESS SHOWN OTHERWISE ON THE MAINLINE CROSS SECTIONS. ALL AREAS OF THE MEDIAN TO BE RESTORED SHALL RECEIVE TOPSOIL FURNISH AND PLACE, 4".

END TEMPORARY CROSSOVER
REMOVAL EARTHWORK
STA. 13+50.00 (STAGE III)
C = 0 F = 0 (AHEAD)
C = 0 F = 0 (BACK)



USER NAME = bmatthies	DESIGNED -	REVISED -
FILE NAME = D468671-sht-xssht_MOT.dwg	CHECKED -	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 12/13/2012	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 116 OVER TEN MILE CREEK
TEMPORARY CROSSOVER CROSS SECTIONS

SCALE: 1" = 10'
 SHEET NO. 8 OF 9 SHEETS
 STA. 12+00.00 TO STA. 13+50.00

F.A.P. RTE. 673	SECTION (102B-1)BR	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 37
CONTRACT NO. 68671				

ILLINOIS FED. AID PROJECT

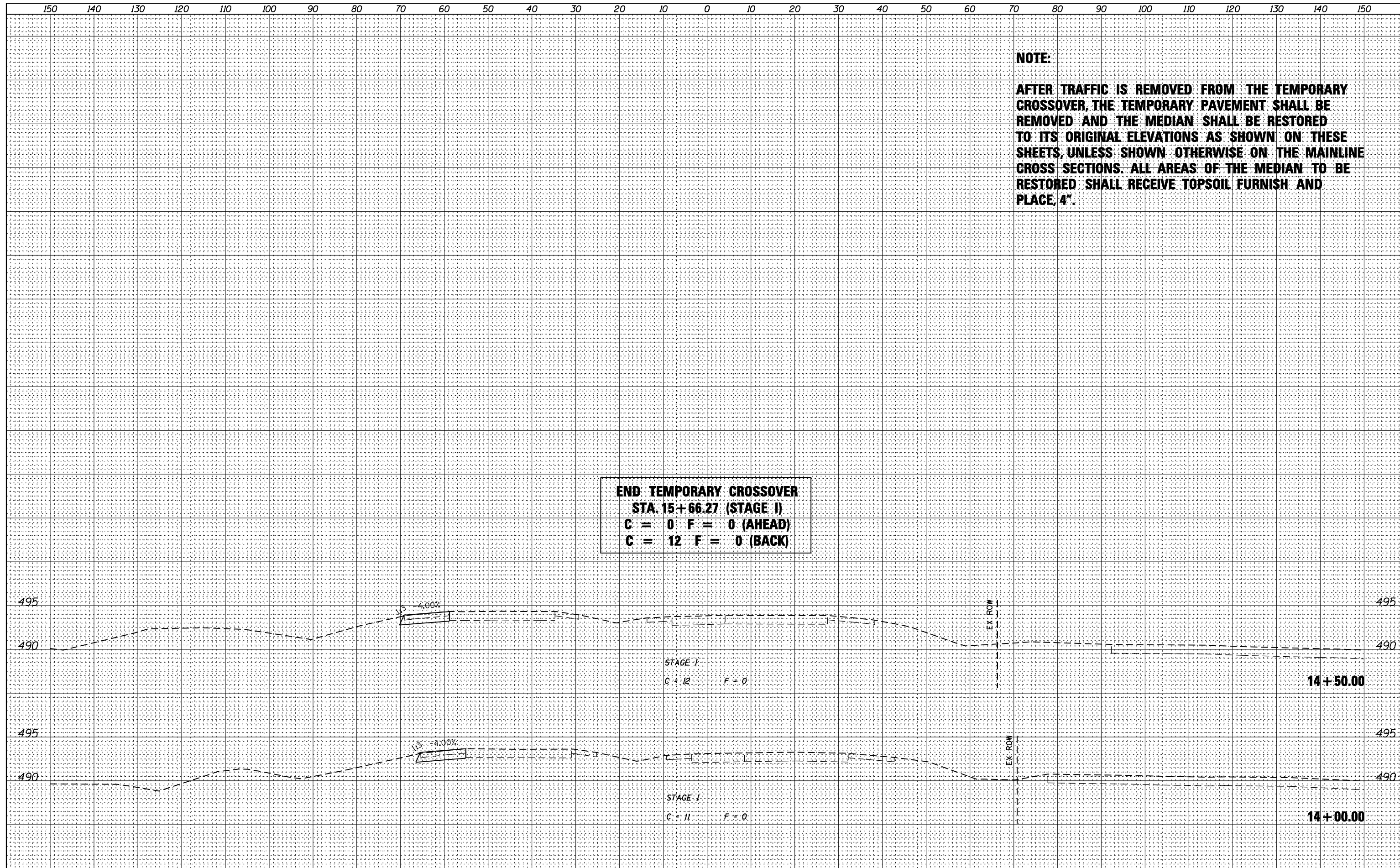
DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED	
TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	

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

NOTE:

AFTER TRAFFIC IS REMOVED FROM THE TEMPORARY CROSSOVER, THE TEMPORARY PAVEMENT SHALL BE REMOVED AND THE MEDIAN SHALL BE RESTORED TO ITS ORIGINAL ELEVATIONS AS SHOWN ON THESE SHEETS, UNLESS SHOWN OTHERWISE ON THE MAINLINE CROSS SECTIONS. ALL AREAS OF THE MEDIAN TO BE RESTORED SHALL RECEIVE TOPSOIL FURNISH AND PLACE, 4".

**END TEMPORARY CROSSOVER
STA. 15+66.27 (STAGE I)
C = 0 F = 0 (AHEAD)
C = 12 F = 0 (BACK)**



design firm
no. 184001036

engineers + planners + land surveyors

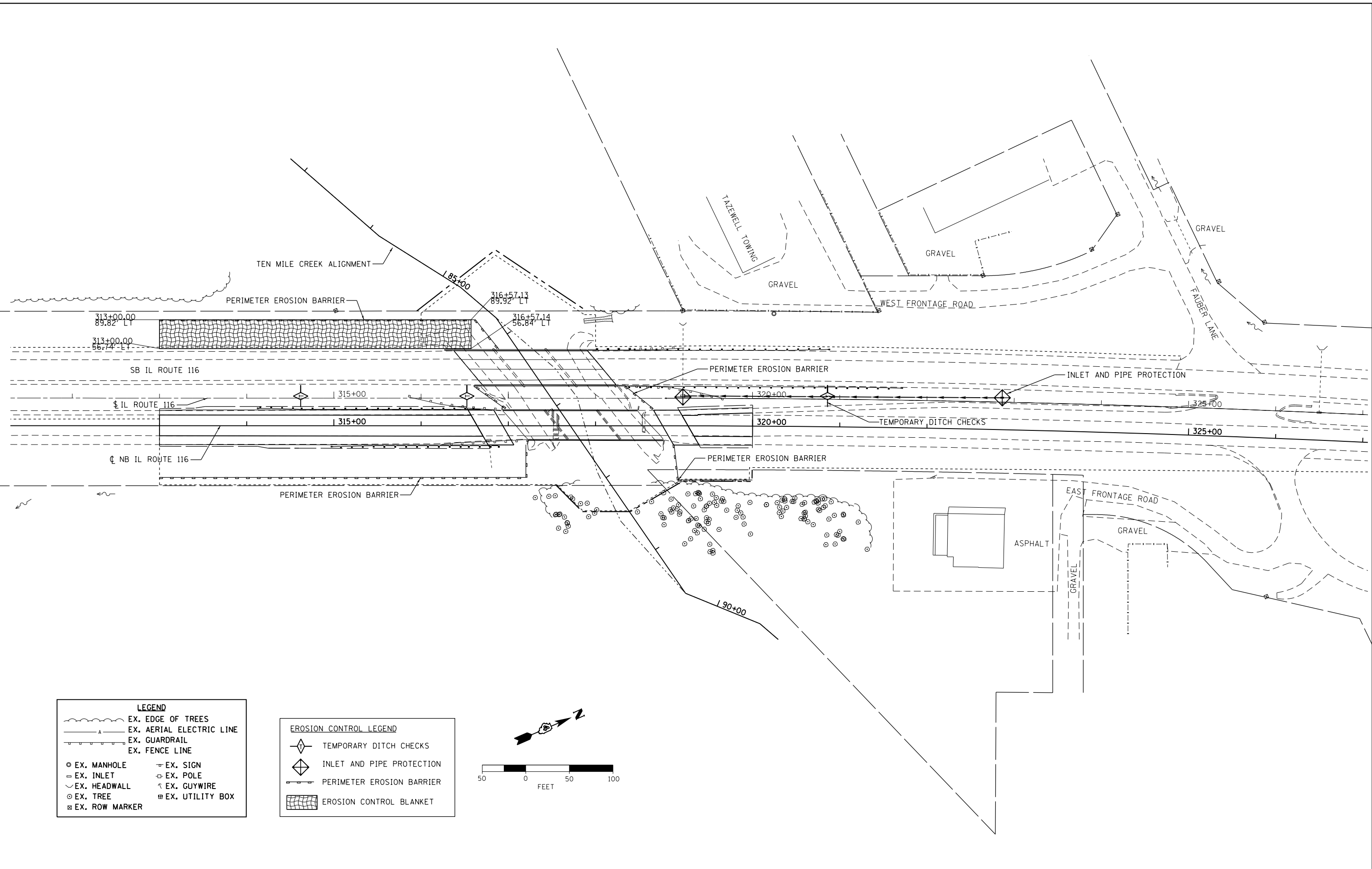
USER NAME = bmatthies	DESIGNED -	REVISED
FILE NAME = D468671-shr-xssht_MOT.dwg	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 12/13/2012	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 116 OVER TEN MILE CREEK
TEMPORARY CROSSOVER CROSS SECTIONS**

SCALE: 1" = 10'
SHEET NO. 9 OF 9 SHEETS
STA. 14+00.00 TO STA. 14+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	38
CONTRACT NO. 68671				
ILLINOIS FED. AID PROJECT				

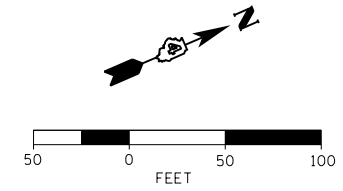


LEGEND

	EX. EDGE OF TREES
	EX. AERIAL ELECTRIC LINE
	EX. GUARDRAIL
	EX. FENCE LINE
	EX. MANHOLE
	EX. INLET
	EX. HEADWALL
	EX. TREE
	EX. ROW MARKER
	EX. SIGN
	EX. POLE
	EX. GUYWIRE
	EX. UTILITY BOX

EROSION CONTROL LEGEND

	TEMPORARY DITCH CHECKS
	INLET AND PIPE PROTECTION
	PERIMETER EROSION BARRIER
	EROSION CONTROL BLANKET



USER NAME = WAH
 PLOT SCALE = 100.0000' / 1" / 11.
 PLOT DATE = 12/13/2012

DESIGNED - CL
 DRAWN - WAH
 CHECKED - KJC/HTL
 DATE - 10/04/12

REVISED -
 REVISED -
 REVISED -
 REVISED -

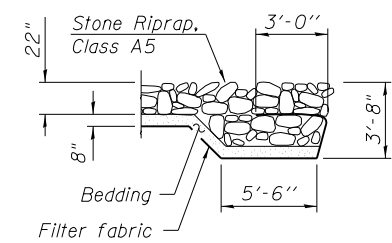
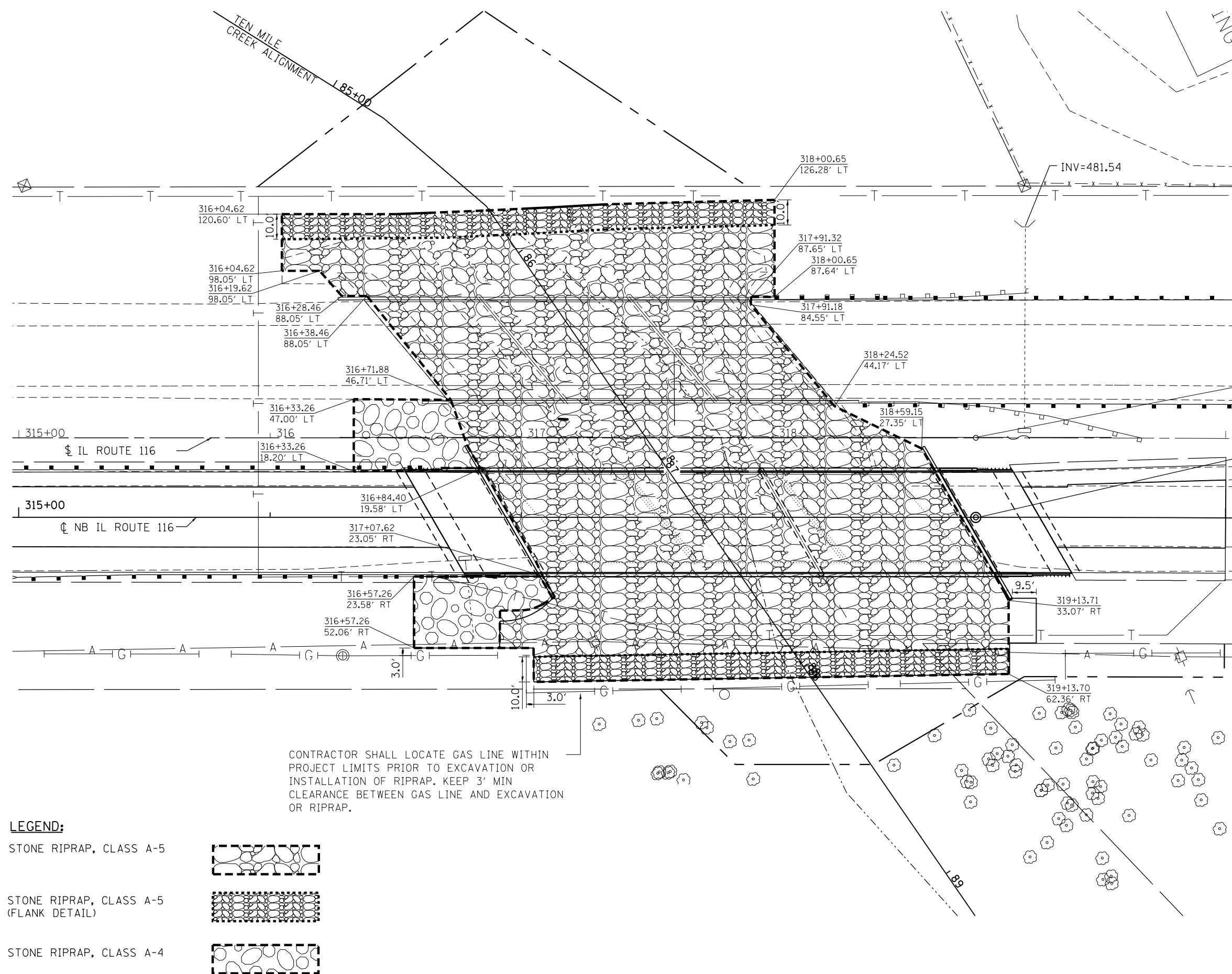
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
 IL 116 OVER TEN MILE CREEK**

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	39
CONTRACT NO. 68671				
ILLINOIS FED. AID PROJECT				

I:\Projects\10-221\DOT\TazBridges-Ten Mile Creek-Phase I\Drawings\CA00 Sheets\0466671-plt-scour_protect_plandgn

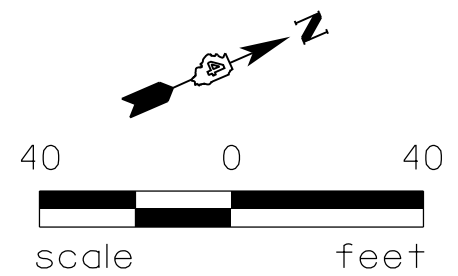


FLANK DETAIL

EQUATION:
 PC Sta 319+00.64
 Sta 318+80.74 BK =
 Sta 319+00.64 AH
 Sta 319+00.64 AH
 Sta 318+80.74 BK =
 EQUATION:
 PC Sta 319+00.64

LEGEND:

- STONE RIPRAP, CLASS A-5
- STONE RIPRAP, CLASS A-5 (FLANK DETAIL)
- STONE RIPRAP, CLASS A-4



USER NAME = WAH	DESIGNED - CL	REVISED -
DRAWN - WAH	REVISIONS -	
PLOT SCALE = 48.000' / in.	CHECKED - KJC/HTL	REVISED -
PLOT DATE = 12/13/2012	DATE - 10/04/12	REVISED -

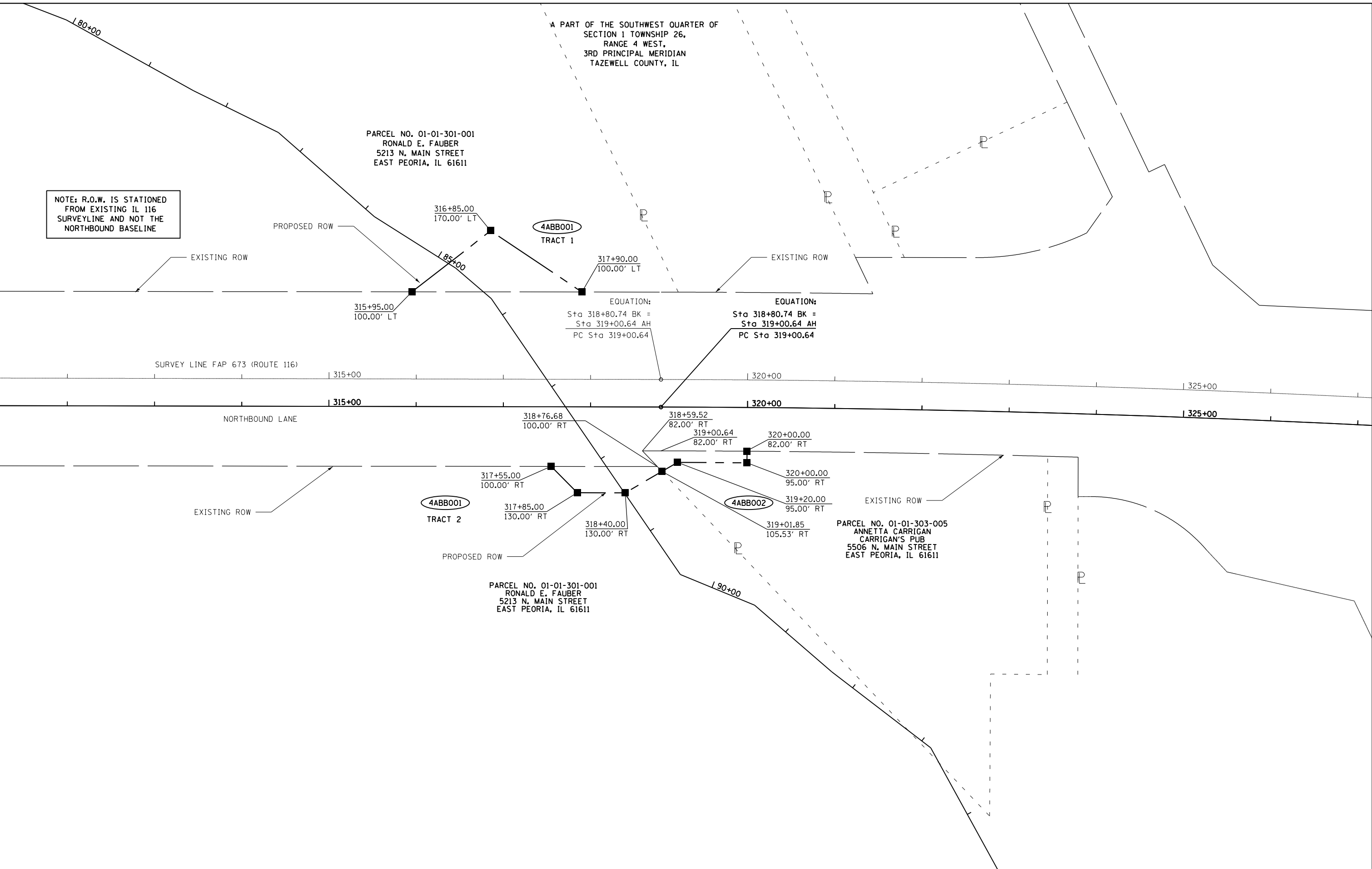
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SCOUR PROTECTION PLAN
 IL 116 OVER TEN MILE CREEK**

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 673	SECTION (102B-1)BR	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 41
CONTRACT NO. 68671				
ILLINOIS FED. AID PROJECT				

I:\Projects\10-221\DOT\102B\Drawings\CA00\Drawings\102B-1BR\102B-1BR.dgn



NOTE: R.O.W. IS STATIONED FROM EXISTING IL 116 SURVEYLINE AND NOT THE NORTHBOUND BASELINE

A PART OF THE SOUTHWEST QUARTER OF SECTION 1 TOWNSHIP 26, RANGE 4 WEST, 3RD PRINCIPAL MERIDIAN TAZEWELL COUNTY, IL

PARCEL NO. 01-01-301-001
RONALD E. FAUBER
5213 N. MAIN STREET
EAST PEORIA, IL 61611

PARCEL NO. 01-01-303-005
ANNETTA CARRIGAN
CARRIGAN'S PUB
5506 N. MAIN STREET
EAST PEORIA, IL 61611

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLAN
IL 116 OVER TEN MILE CREEK
SCALE: 1"=100' SHEET NO. 1 OF 1 SHEETS STA. 310+00 TO STA. 327+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1BR)	TAZEWELL	89	42
CONTRACT NO. 68671				

USER NAME = WAH	DESIGNED - CL	REVISED -
DRAWN - WAH	REVISOR -	
PLOT SCALE = 100.0000' / 1" =	CHECKED - KJC/HTL	REVISED -
PLOT DATE = 12/13/2012	DATE - 10/04/12	REVISED -

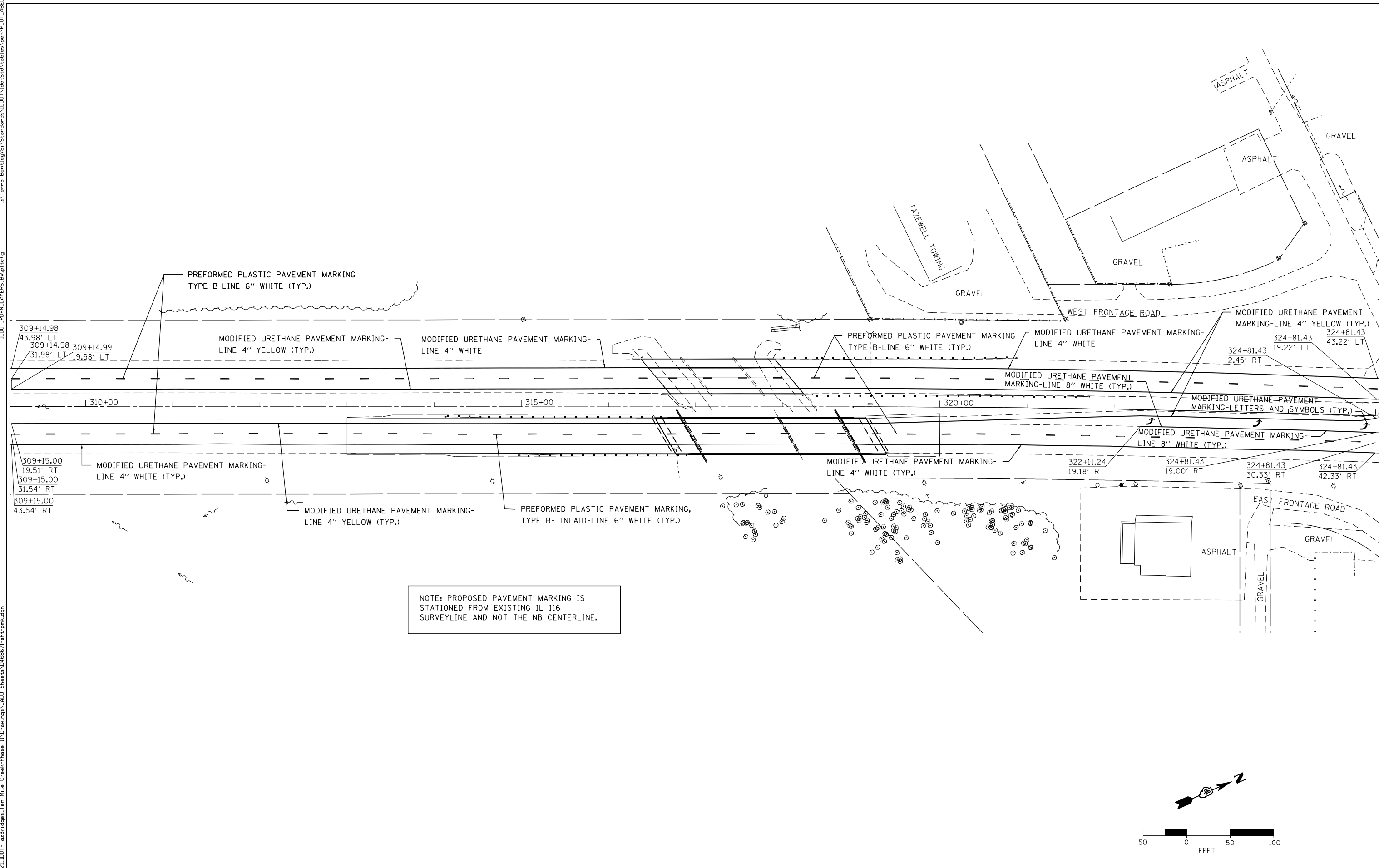


ILLINOIS FED. AID PROJECT

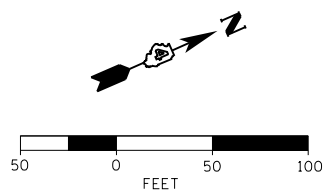
I:\Terra_Bentley\Bentley\Standards\ILDOT\Std\Tables\penn\PLT\LABEL.tbl

ILDOT_PDFNLAVERS.BWplot.ctb

T:\Projects\10-221\DOT\TazBridges-Ten Mile Creek-Phase II\Drawings\CADD Sheets\0468671-plt\pml.dgn



NOTE: PROPOSED PAVEMENT MARKING IS STATIONED FROM EXISTING IL 116 SURVEYLINE AND NOT THE NB CENTERLINE.



USER NAME = WAH	DESIGNED - CL	REVISED -
DRAWN - WAH	REVISIONS -	
PLOT SCALE = 100.0000' / in.	CHECKED - KJC/HTL	REVISED -
PLOT DATE = 12/13/2012	DATE - 10/04/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLANS IL 116 OVER TEN MILE CREEK		
SCALE: 1" = 50'	SHEET NO. 1 OF 1 SHEETS	STA. 309+00 TO STA. 325+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	43
CONTRACT NO. 68671				
ILLINOIS FED. AID PROJECT				

Bench Mark: Chiseled "□" On slope wall top, west side of southbound IL 116 Bridge, on south side of bridge elev 483.21.

Existing Structure: S.N. 090-0065, built in 1953, is a three span continuous cast-in-place, tee beam bridge. The span lengths are 46'-1", and 60'-0", 46'-1". The length from back of abutments is 158'. The roadway is 32'-8" wide. It is supported by solid piers and modified semi-integral abutments.

Structure to be closed and removed during replacement. Traffic to be maintained using adjacent southbound structure. No salvage.

STATION 317+85.15
BUILT 20XX BY
STATE OF ILLINOIS
F.A.P. 673 SEC. 102B-1
LOADING HL 93
STR. NO. 090-0179

NAME PLATE
See Std. 515001



Sheets: S01, S02, S03, S04, S05, S06, S07, S08, S09, S10, S13, S14, S15, S16, S17, S19, S20, S21, S22.

Orwin P. Youngquist
Expires: 11/30/2012
10-09-12

INDEX OF SHEETS

- S01 General Plan and Elevation
- S02 General Notes and Bill of Material
- S03 Top of Slab Elevation Location Plan
- S04,S05 Top of Slab Elevations
- S06 Top of South Approach Slab Elevations
- S07 Top of North Approach Slab Elevations
- S08 Superstructure-Plan and Cross Section
- S09 Superstructure Details
- S10 Integral Abutment Diaphragm Details
- S11,S12 Bridge Approach Slab Details
- S13 Framing Plan
- S14,S15 Steel Details
- S16 South Abutment Plan and Elevation
- S17 North Abutment Plan and Elevation
- S18 Pier Plan and Details
- S19 Bar Splicer Assembly Details
- S20 Pile Details
- S21-S22 Soil Boring Logs

LOADING HL 93

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

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications

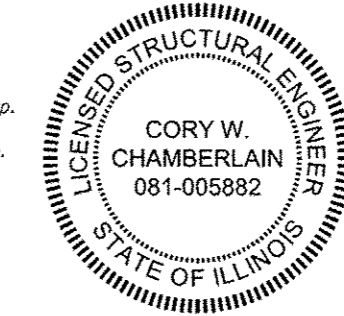
DESIGN STRESSES

FIELD UNITS

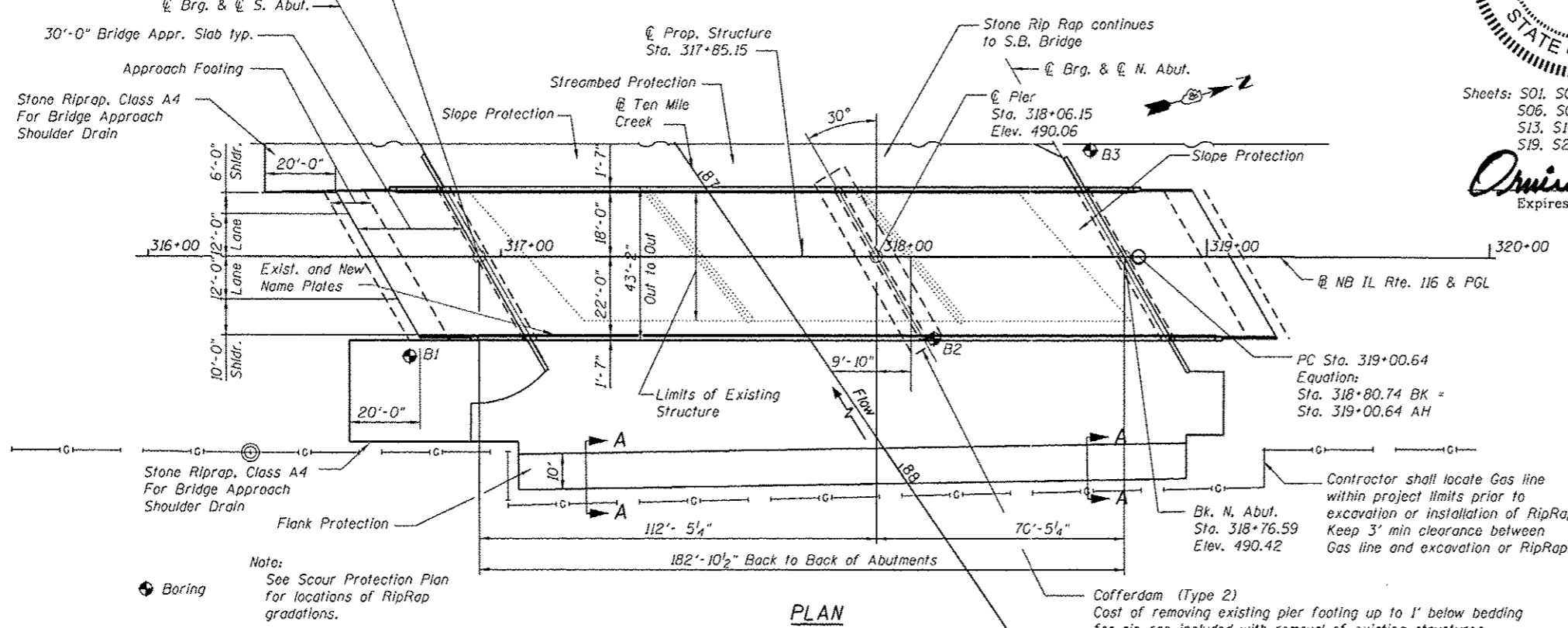
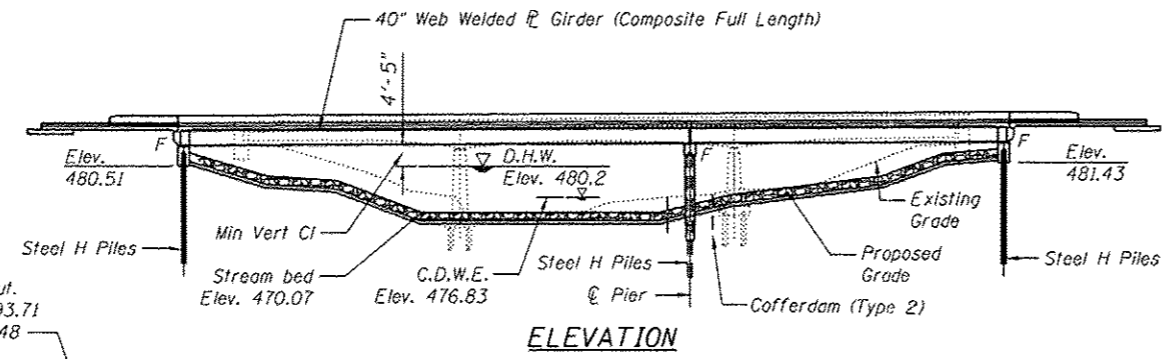
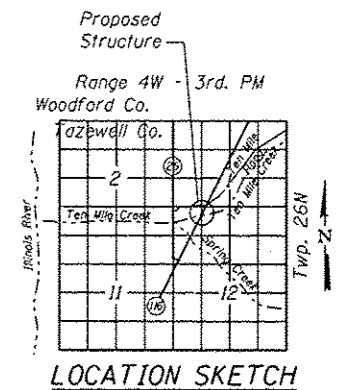
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50W)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (Sd1) = 0.163g
Design Spectral Acceleration at 0.2 sec. (Sds) = 0.275g
Soil Site Class = E



Expires: 11/30/2012
10-4-12



Note: See Scour Protection Plan for locations of RipRap gradations.

Cofferdam (Type 2)
Cost of removing existing pier footing up to 1' below bedding for rip rap included with removal of existing structures.
Cost of removing any additional pier footing for installation of Cofferdam (Type 2) included with Cofferdam (Type 2)

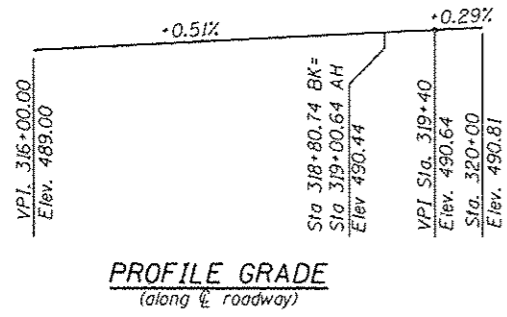
WATERWAY INFORMATION

Drainage Area = 12.95 Sq. Mi. Low Grade Elev. 486.89 @ Sta. 309+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater E.I.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
10	2840	386	612	478.7	0.8	0.0	479.5	478.7	
Design	50	4810	511	789	480.2	1.4	0.0	481.6	480.2
Base	100	5730	570	871	480.8	1.9	0.3	482.8	481.1
Overtopping	N/A								
Max. Calc.	500	8040	591	900	481.1	3.8	1.3	484.9	482.4

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut.	Pier	N. Abut.
	480.51	458.4	481.43



APPROVED
For Structural Adequacy Only
De Carl Ruzay
Engineer of Bridges & Structures

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 116 (N.B.) OVER TEN MILE CREEK
F.A.P. 673 (ILL 116) - SECTION (102B-1) BR
TAZEWELL COUNTY
STATION 317+85.15
STRUCTURE NO. 090-0179



USER NAME: c_wm
FILE NAME: D:\68671-001-CP&E.dgn
PLOT SCALE: 1/8" = 1'-0"
PLOT DATE: 10/4/2012

DESIGNED - OY
CHECKED - DB
DRAWN - CM
CHECKED - JB

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

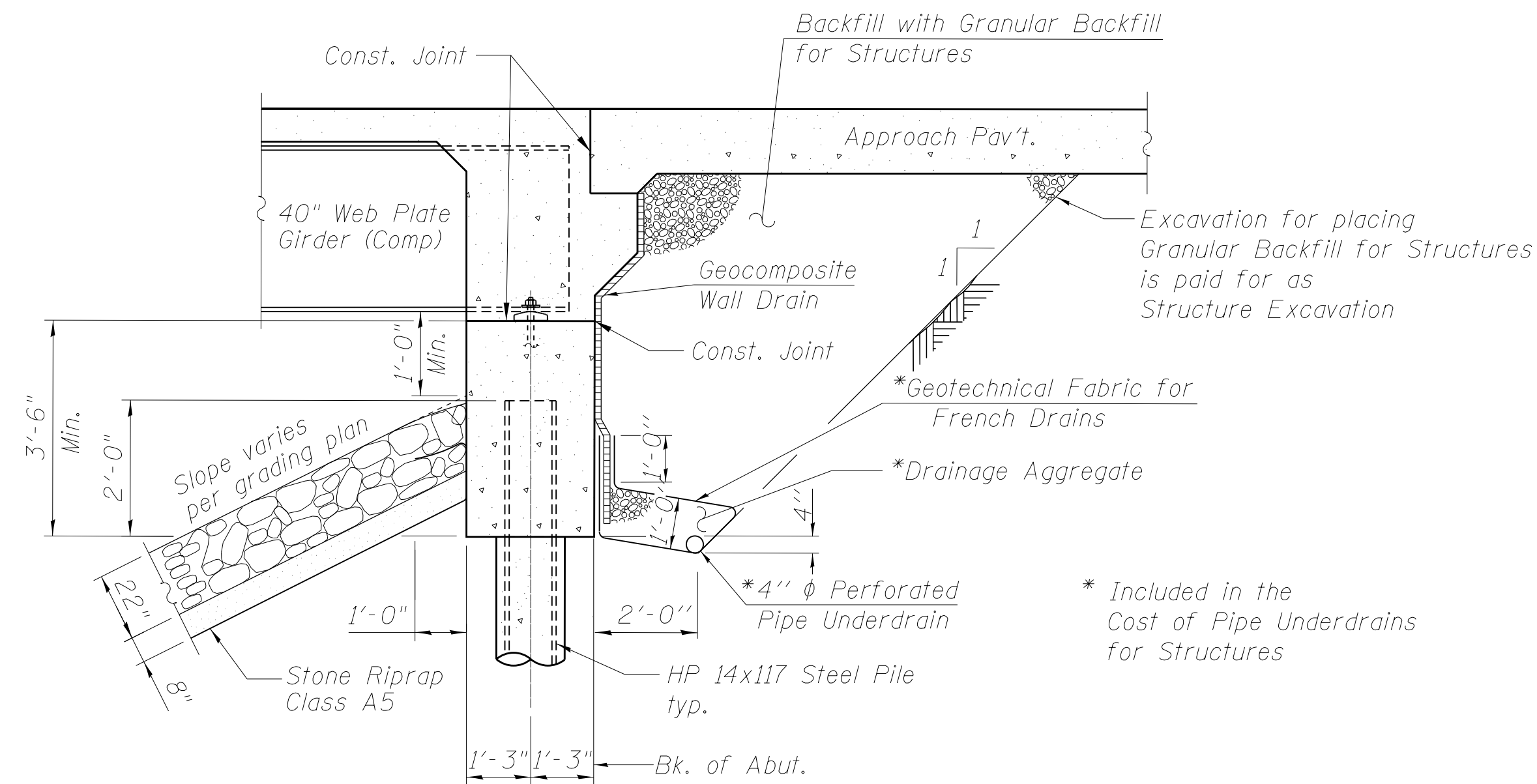
GENERAL PLAN AND ELEVATION
STRUCTURE NO. 090-0179
SHEET NO. S01 OF S22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1) BR	TAZEWELL	89	44

CONTRACT NO. 68671
ILLINOIS FED. AID PROJECT

GENERAL NOTES:

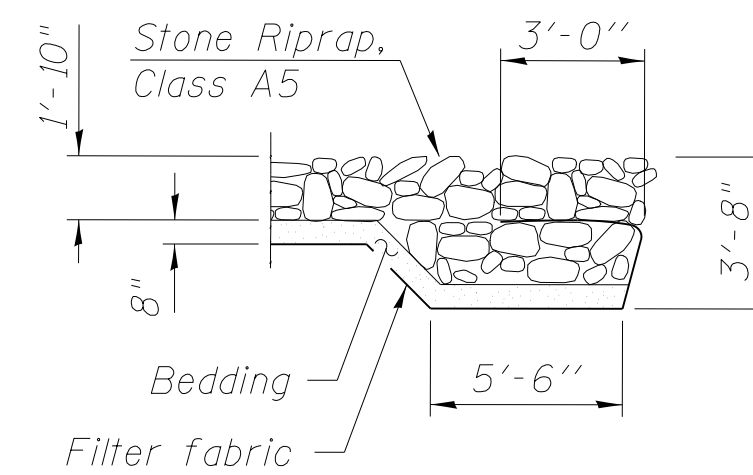
- Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas. Bolts $\frac{7}{8}$ " ϕ , holes $\frac{15}{16}$ " ϕ , unless otherwise noted.
- Calculated weight of Structural Steel = 248,500 lbs (AASHTO M270, Grade 50W)
- All structural steel shall be AASHTO M270 Grade 50W.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 in. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- Slip forming of the parapets is not allowed.
- The removal of substructure from the previous bridge that may be encountered in excavation and removal of slopewall below both structures are included in the cost of Removal of Existing Structure.
- Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.
- Start casting deck from north abutment to avoid uplift during the deck pour.



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

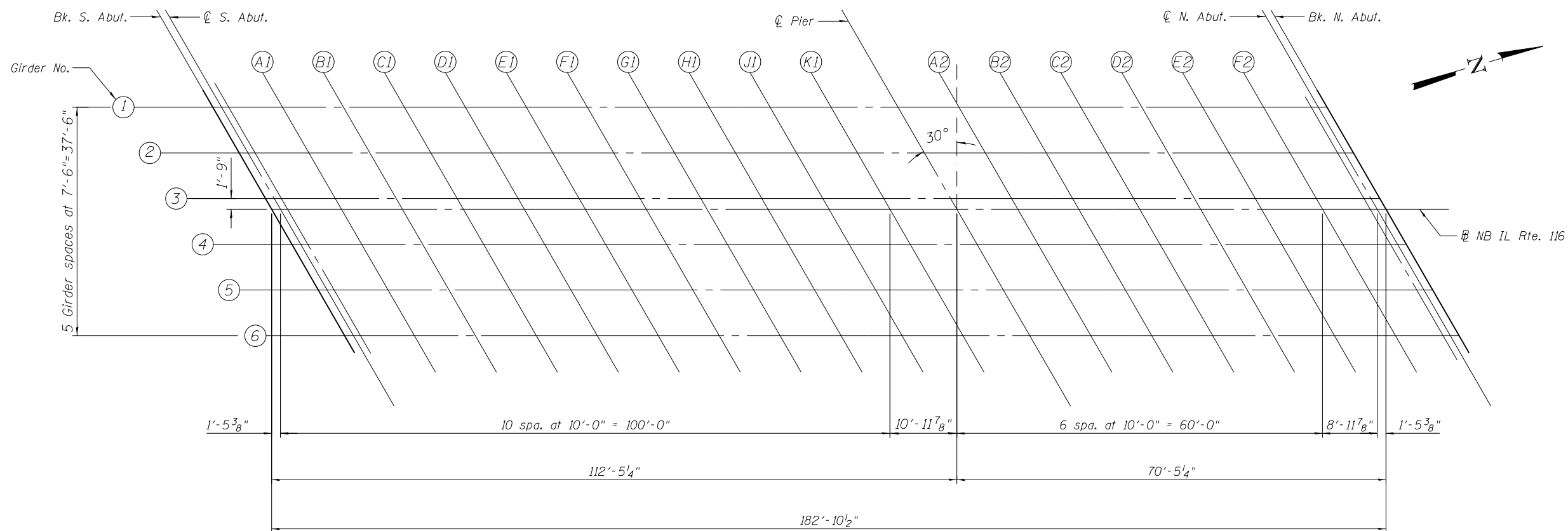
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101)



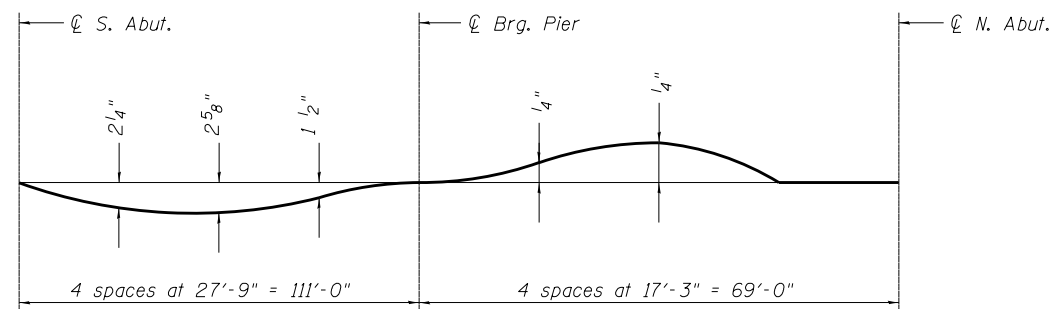
SECTION A-A

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.	-	287	287
Stone Riprap, Class A5	Sq. Yd.	-	3732	3732
Filter Fabric	Sq. Yd.	-	4019	4019
Removal of Existing Structures	Each	-	1	1
Structure Excavation	Cu. Yd.	-	349	349
Cofferdam Excavation	Cu. Yd.	-	164	164
Cofferdam (Type 2) (Location 1)	Each	-	1	1
Concrete Structures	Cu. Yd.	-	158.9	158.9
Concrete Superstructure	Cu. Yd.	422.2	-	422.2
Bridge Deck Grooving	Sq. Yd.	1025	-	1025
Seal Coat Concrete	Cu. Yd.	-	64.2	64.2
Concrete Encasement	Cu. Yd.	-	8.8	8.8
Protective Coat	Sq. Yd.	1258	-	1258
Furnishing and Erecting Structural Steel	L.Sum	1	-	1
Stud Shear Connectors	Each	3564	-	3564
Reinforcement Bars, Epoxy Coated	Pound	100,720	19,930	120,650
Bar Splicers	Each	94	0	94
Furnishing Steel Piles HP 14x117	Foot	-	1774	1774
Driving Piles	Foot	-	1774	1774
Test Pile Steel HP 14x117	Each	-	3	3
Name Plates	Each	1	-	1
Anchor Bolts, 1"	Each	-	36	36
Geocomposite Wall Drain	Sq. Yd.	-	118	118
Granular Backfill for Structures	Cu. Yd.	-	233	233
Pipe Underdrains for Structures 4"	Foot	-	180	180



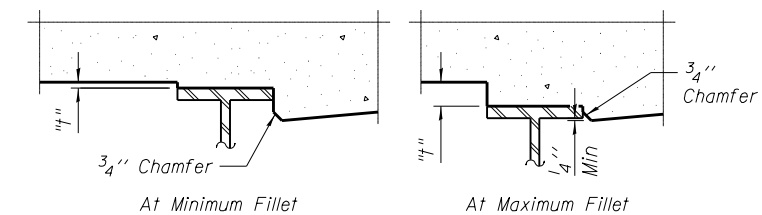
PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets S04 and S05 of S22.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheets S04 and S05 of S22. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

T:\Projects\10-221\1001-Topo\Drawings\Structural\Final Plans\SHEETS\0468671-003-TOS.Elev.Loc.dgn



USER NAME = WAH
FILE NAME = D468671-003-TOS.Elev.Loc.dgn
PLOT DATE = 10/5/2012

DESIGNED - OY
CHECKED - DB
DRAWN - CM
CHECKED - JB

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATION LOCATION PLAN
STRUCTURE NO. 090-0179**

SHEET NO. S03 OF S22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1) BR	TAZEWELL	89	46
CONTRACT NO. 68671				

ILLINOIS FED. AID PROJECT

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	316+84.04	-16.75	489.05	489.05
C/L S. Abut.	316+85.48	-16.75	489.05	489.05
A1	316+95.48	-16.75	489.10	489.18
B1	317+05.48	-16.75	489.16	489.30
C1	317+15.48	-16.75	489.21	489.40
D1	317+25.48	-16.75	489.26	489.48
E1	317+35.48	-16.75	489.31	489.54
F1	317+45.48	-16.75	489.36	489.58
G1	317+55.48	-16.75	489.41	489.60
H1	317+65.48	-16.75	489.46	489.61
J1	317+75.48	-16.75	489.51	489.61
K1	317+85.48	-16.75	489.57	489.61
C/L Brg. Pier	317+96.48	-16.75	489.62	489.62
A2	318+06.48	-16.75	489.67	489.66
B2	318+16.48	-16.75	489.72	489.70
C2	318+26.48	-16.75	489.78	489.76
D2	318+36.48	-16.75	489.83	489.81
E2	318+46.48	-16.75	489.88	489.87
F2	318+56.48	-16.75	489.93	489.93
C/L N. Abut.	318+65.48	-16.75	489.98	489.98
Bk. N. Abut.	318+66.92	-16.75	489.98	489.98

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	316+88.37	-9.25	489.31	489.31
C/L S. Abut.	316+89.81	-9.25	489.32	489.32
A1	316+99.81	-9.25	489.37	489.45
B1	317+09.81	-9.25	489.42	489.56
C1	317+19.81	-9.25	489.47	489.66
D1	317+29.81	-9.25	489.52	489.74
E1	317+39.81	-9.25	489.57	489.80
F1	317+49.81	-9.25	489.62	489.84
G1	317+59.81	-9.25	489.68	489.86
H1	317+69.81	-9.25	489.73	489.87
J1	317+79.81	-9.25	489.78	489.87
K1	317+89.81	-9.25	489.83	489.87
C/L Brg. Pier	318+00.81	-9.25	489.89	489.89
A2	318+10.81	-9.25	489.94	489.92
B2	318+20.81	-9.25	489.99	489.97
C2	318+30.81	-9.25	490.04	490.02
D2	318+40.81	-9.25	490.09	490.08
E2	318+50.81	-9.25	490.14	490.14
F2	318+60.81	-9.25	490.19	490.19
C/L N. Abut.	318+69.81	-9.25	490.24	490.24
Bk. N. Abut.	318+71.25	-9.25	490.25	490.25

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	316+92.70	-1.75	489.45	489.45
C/L S. Abut.	316+94.14	-1.75	489.46	489.46
A1	317+04.14	-1.75	489.51	489.59
B1	317+14.14	-1.75	489.56	489.70
C1	317+24.14	-1.75	489.61	489.80
D1	317+34.14	-1.75	489.66	489.88
E1	317+44.14	-1.75	489.71	489.94
F1	317+54.14	-1.75	489.76	489.98
G1	317+64.14	-1.75	489.81	490.00
H1	317+74.14	-1.75	489.87	490.01
J1	317+84.14	-1.75	489.92	490.01
K1	317+94.14	-1.75	489.97	490.01
C/L Brg. Pier	318+05.14	-1.75	490.02	490.02
A2	318+15.14	-1.75	490.08	490.06
B2	318+25.14	-1.75	490.13	490.11
C2	318+35.14	-1.75	490.18	490.16
D2	318+45.14	-1.75	490.23	490.22
E2	318+55.14	-1.75	490.28	490.28
F2	318+65.14	-1.75	490.33	490.33
C/L N. Abut.	318+74.14	-1.75	490.38	490.38
Bk. N. Abut.	318+75.58	-1.75	490.39	490.39

▮ NB IL RTE 116

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	316+93.71	0.00	489.48	489.48
C/L S. Abut.	316+95.15	0.00	489.49	489.49
A1	317+05.15	0.00	489.54	489.62
B1	317+15.15	0.00	489.59	489.73
C1	317+25.15	0.00	489.64	489.83
D1	317+35.15	0.00	489.69	489.91
E1	317+45.15	0.00	489.74	489.98
F1	317+55.15	0.00	489.80	490.01
G1	317+65.15	0.00	489.85	490.04
H1	317+75.15	0.00	489.90	490.04
J1	317+85.15	0.00	489.95	490.04
K1	317+95.15	0.00	490.00	490.05
C/L Brg. Pier	318+06.15	0.00	490.06	490.06
A2	318+16.15	0.00	490.11	490.09
B2	318+26.15	0.00	490.16	490.14
C2	318+36.15	0.00	490.21	490.19
D2	318+46.15	0.00	490.26	490.25
E2	318+56.15	0.00	490.31	490.31
F2	318+66.15	0.00	490.37	490.36
C/L N. Abut.	318+75.15	0.00	490.41	490.41
Bk. N. Abut.	318+76.59	0.00	490.42	490.42

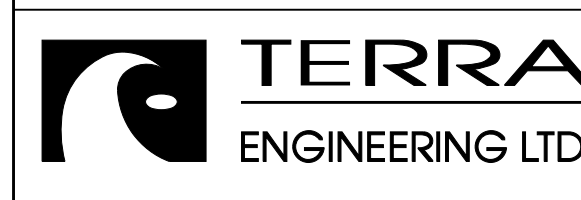
GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	316+97.03	5.75	489.41	489.41
C/L S. Abut.	316+98.47	5.75	489.42	489.42
A1	317+08.47	5.75	489.47	489.55
B1	317+18.47	5.75	489.52	489.66
C1	317+28.47	5.75	489.57	489.76
D1	317+38.47	5.75	489.62	489.84
E1	317+48.47	5.75	489.67	489.90
F1	317+58.47	5.75	489.72	489.94
G1	317+68.47	5.75	489.77	489.96
H1	317+78.47	5.75	489.83	489.97
J1	317+88.47	5.75	489.88	489.97
K1	317+98.47	5.75	489.93	489.97
C/L Brg. Pier	318+09.47	5.75	489.98	489.98
A2	318+19.47	5.75	490.04	490.02
B2	318+29.47	5.75	490.09	490.07
C2	318+39.47	5.75	490.14	490.12
D2	318+49.47	5.75	490.19	490.18
E2	318+59.47	5.75	490.24	490.24
F2	318+69.47	5.75	490.29	490.29
C/L N. Abut.	318+78.47	5.75	490.34	490.34
Bk. N. Abut.	318+79.91	5.75	490.35	490.35

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	317+01.36	13.25	489.28	489.28
C/L S. Abut.	317+02.80	13.25	489.29	489.29
A1	317+12.80	13.25	489.34	489.42
B1	317+22.80	13.25	489.39	489.53
C1	317+32.80	13.25	489.44	489.63
D1	317+42.80	13.25	489.49	489.71
E1	317+52.80	13.25	489.54	489.77
F1	317+62.80	13.25	489.60	489.81
G1	317+72.80	13.25	489.65	489.83
H1	317+82.80	13.25	489.70	489.84
J1	317+92.80	13.25	489.75	489.84
K1	318+02.80	13.25	489.80	489.85
C/L Brg. Pier	318+13.80	13.25	489.86	489.86
A2	318+23.80	13.25	489.91	489.89
B2	318+33.80	13.25	489.96	489.94
C2	318+43.80	13.25	490.01	489.99
D2	318+53.80	13.25	490.06	490.05
E2	318+63.80	13.25	490.11	490.11
F2	318+73.80	13.25	490.16	490.16
C/L N. Abut.	318+82.80	13.25	490.23	490.23
Bk. N. Abut.	318+84.24	13.25	490.25	490.25

MSJL RT 116 OVER TEN MILE CREEK CIVIL\AStructural\Final_Plans\SHEETS\0468671-004-TOS.Elev.dgn



USER NAME = cvm	DESIGNED - OY	REVISED -
FILE NAME = D468671-004-TOS.Elev.dgn	CHECKED - DB	REVISED -
PLOT DATE = 10/4/2012	DRAWN - CM	REVISED -
	CHECKED - JB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 090-0179**

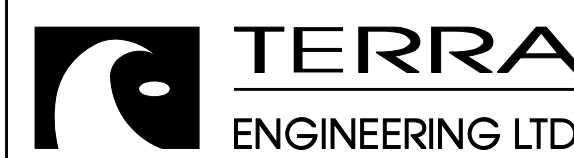
SHEET NO. S04 OF S22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1) BR	TAZEWELL	89	47
CONTRACT NO. 68671				
ILLINOIS FED. AID PROJECT				

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	317+05.69	20.75	488.99	488.99
C/L S. Abut.	317+07.13	20.75	489.00	489.00
A1	317+17.13	20.75	489.05	489.13
B1	317+27.13	20.75	489.10	489.24
C1	317+37.13	20.75	489.15	489.34
D1	317+47.13	20.75	489.20	489.42
E1	317+57.13	20.75	489.25	489.48
F1	317+67.13	20.75	489.31	489.52
G1	317+77.13	20.75	489.36	489.54
H1	317+87.13	20.75	489.41	489.55
J1	317+97.13	20.75	489.46	489.55
K1	318+07.13	20.75	489.51	489.56
C/L Brg. Pier	318+18.13	20.75	489.57	489.57
A2	318+28.13	20.75	489.62	489.60
B2	318+38.13	20.75	489.67	489.65
C2	318+48.13	20.75	489.72	489.70
D2	318+58.13	20.75	489.77	489.76
E2	318+68.13	20.75	489.82	489.82
F2	318+78.13	20.75	489.87	489.87
C/L N. Abut.	318+87.13	20.75	489.99	489.99
Bk. N. Abut.	318+88.57	20.75	490.01	490.01

M:\JL RT 116 OVER TEN MILE CREEK\CIVIL\Structural\Final Plans\SHEETS\0468671-005-T05-Elev2.dgn



USER NAME = cvm
 FILE NAME = D:\68671-005-T05-Elev2.dgn
 PLOT DATE = 10/4/2012

DESIGNED - OY
 CHECKED - DB
 DRAWN - CM
 CHECKED - JB

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 090-0179**

SHEET NO. S05 OF S22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1) BR	TAZEWELL	89	48
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68671	

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pavmt.	316+53.32	-18.00	488.96
A	316+63.32	-18.00	489.01
B	316+73.32	-18.00	489.06
N. End S. Appr. Pavmt.	316+83.32	-18.00	489.11

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pavmt.	316+56.78	-12.00	489.10
A	316+66.78	-12.00	489.16
B	316+76.78	-12.00	489.21
N. End S. Appr. Pavmt.	316+86.78	-12.00	489.26

PROFILE GRADE & BASELINE

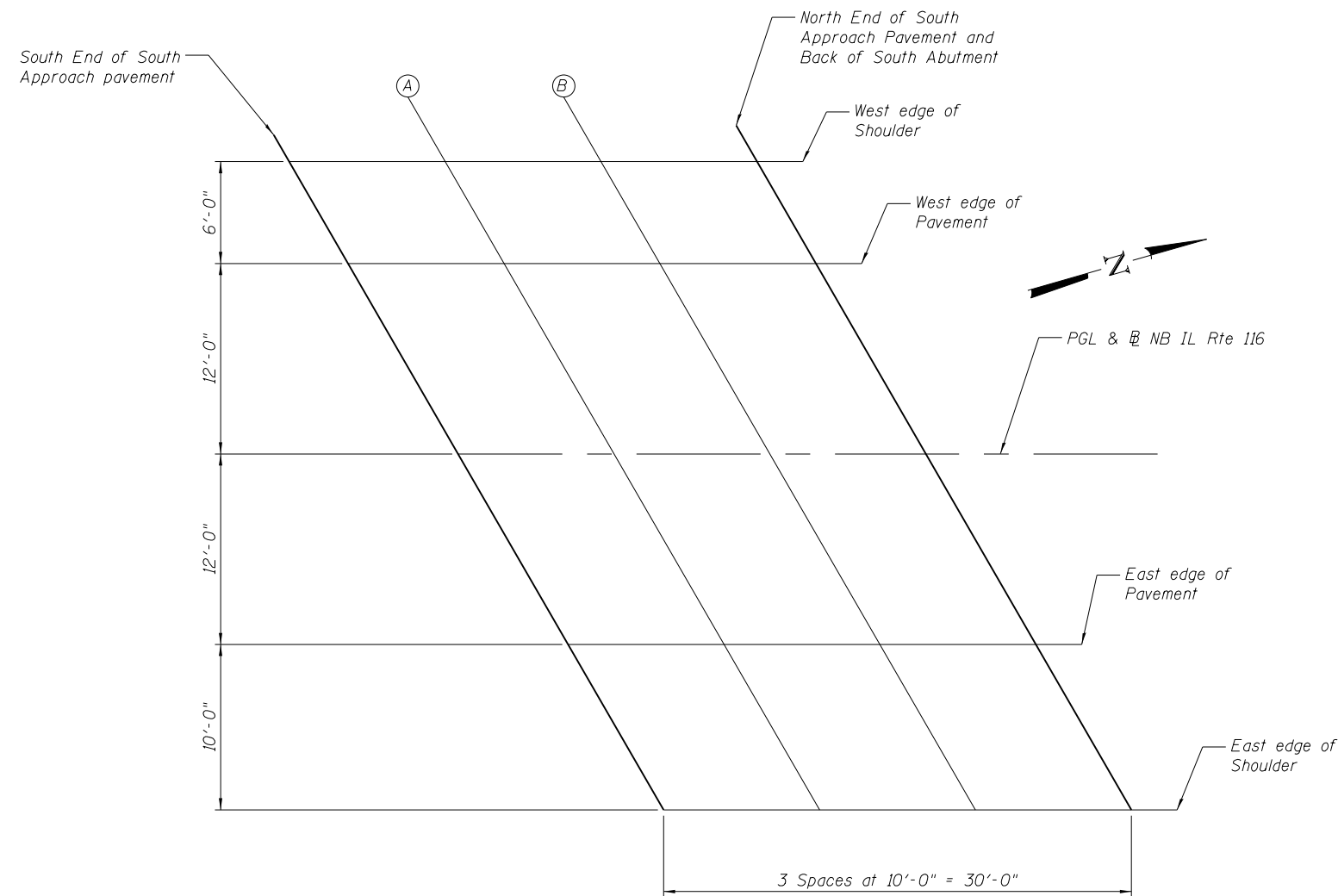
Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pavmt.	316+63.71	0.00	489.33
A	316+73.71	0.00	489.38
B	316+83.71	0.00	489.43
N. End S. Appr. Pavmt.	316+93.71	0.00	489.48

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pavmt.	316+70.64	12.00	489.17
A	316+80.64	12.00	489.23
B	316+90.64	12.00	489.28
N. End S. Appr. Pavmt.	317+00.64	12.00	489.33

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pavmt.	316+76.41	22.00	489.00
A	316+86.41	22.00	489.05
B	316+96.41	22.00	489.10
N. End S. Appr. Pavmt.	317+06.41	22.00	489.15



PLAN
South Approach

T:\Projects\10-221\1001-102B-Edges_Ten Mile Creek-Phase II\Drawings\Structural\Final Plans\SHEETS\006-TOS-S-Appr-Elevs.dgn



USER NAME = WAH
FILE NAME = D468671-006-TOS-S-Appr-Elevs.dgn
PLOT DATE = 10/5/2012

DESIGNED - OY
CHECKED - DB
DRAWN - CM
CHECKED - JB

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 090-0179**

SHEET NO. S06 OF S22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1) BR	TAZEWELL	89	49
CONTRACT NO. 68671				

ILLINOIS FED. AID PROJECT

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pavmt.	318+66.20	-18.00	490.05
C	318+76.20	-18.00	490.10
D	318+86.20	-18.00	490.15
N. End N. Appr. Pavmt.	318+96.20	-18.00	490.20

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pavmt.	318+69.66	-12.00	490.19
C	318+79.66	-12.00	490.24
D	318+89.66	-12.00	490.30
N. End N. Appr. Pavmt.	318+99.66	-12.00	490.35

PROFILE GRADE & BASELINE

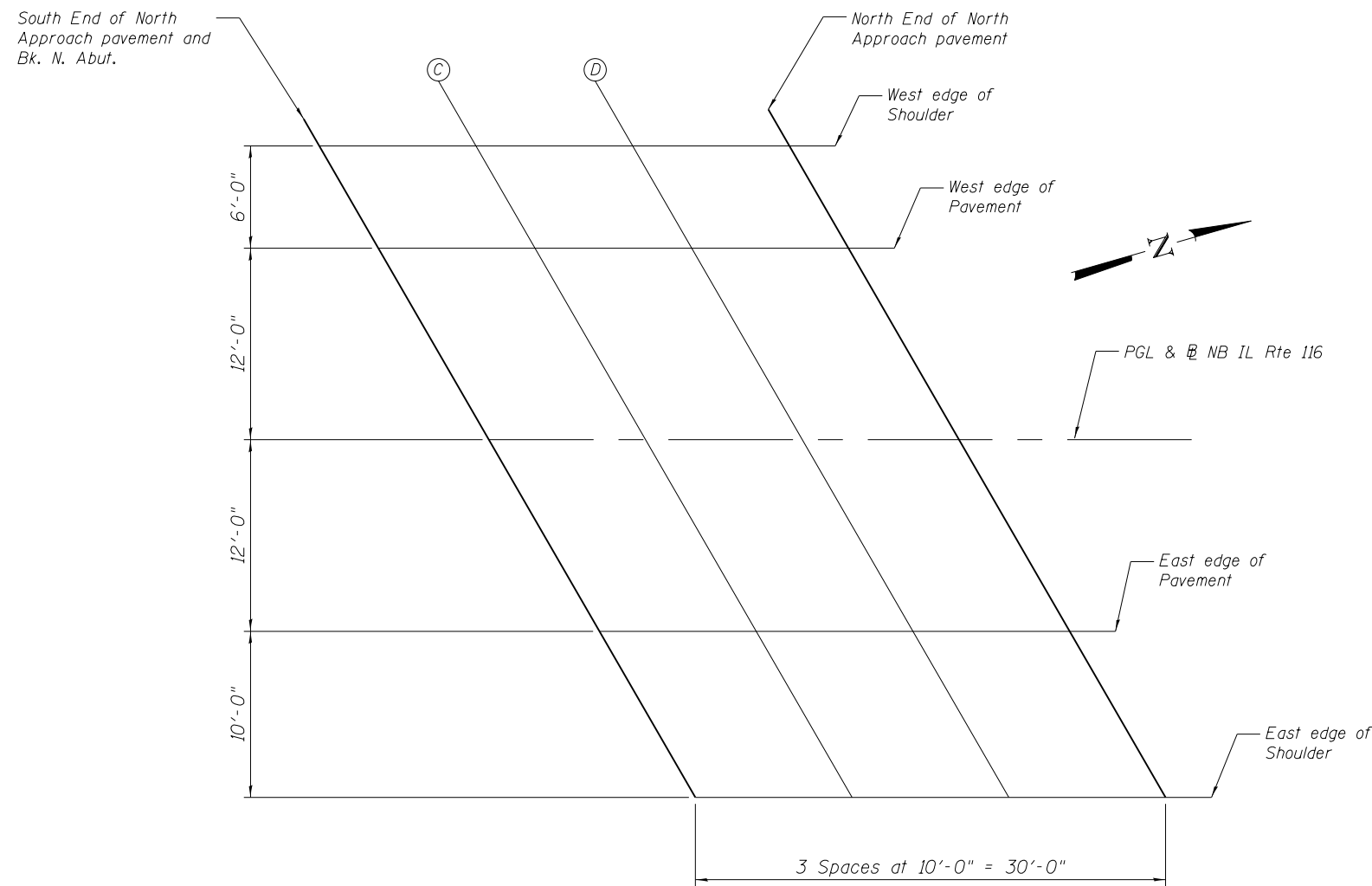
Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pavmt.	318+76.59	0.00	490.42
C	318+86.59	0.00	490.47
D	318+96.59	0.00	490.52
N. End N. Appr. Pavmt.	319+06.59	0.00	490.57

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pavmt.	318+83.52	12.00	490.26
C	318+93.52	12.00	490.32
D	319+03.52	12.00	490.37
N. End N. Appr. Pavmt.	319+13.52	12.00	490.42

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pavmt.	318+89.29	22.00	490.09
C	318+99.29	22.00	490.14
D	319+09.29	22.00	490.19
N. End N. Appr. Pavmt.	319+19.29	22.00	490.24



PLAN

North Approach

T:\Projects\10-221\1001-102B\edges_Ten Mile Creek-Phase II\Drawings\Structural\Final Plans\SHEETS\0468671-007-TOS-N.Appr-Elevs.dgn



USER NAME = WAH	DESIGNED - OY	REVISED -
FILE NAME = D468671-007-TOS-N.Appr-Elevs.dgn	CHECKED - DB	REVISED -
	DRAWN - CM	REVISED -
PLOT DATE = 10/5/2012	CHECKED - JB	REVISED -

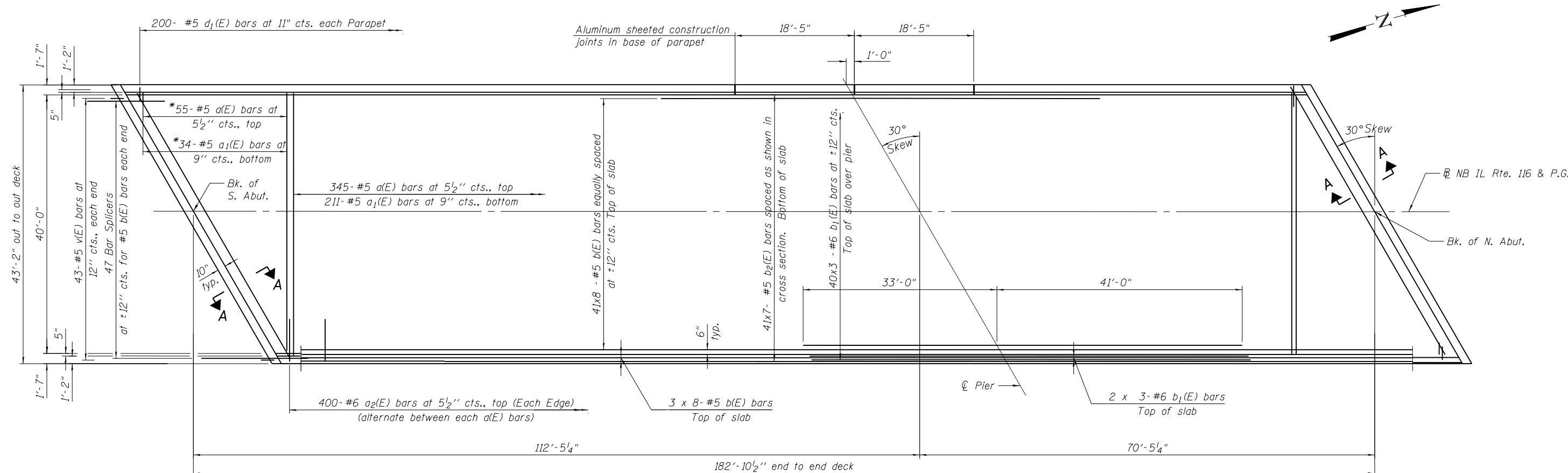
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 090-0179**

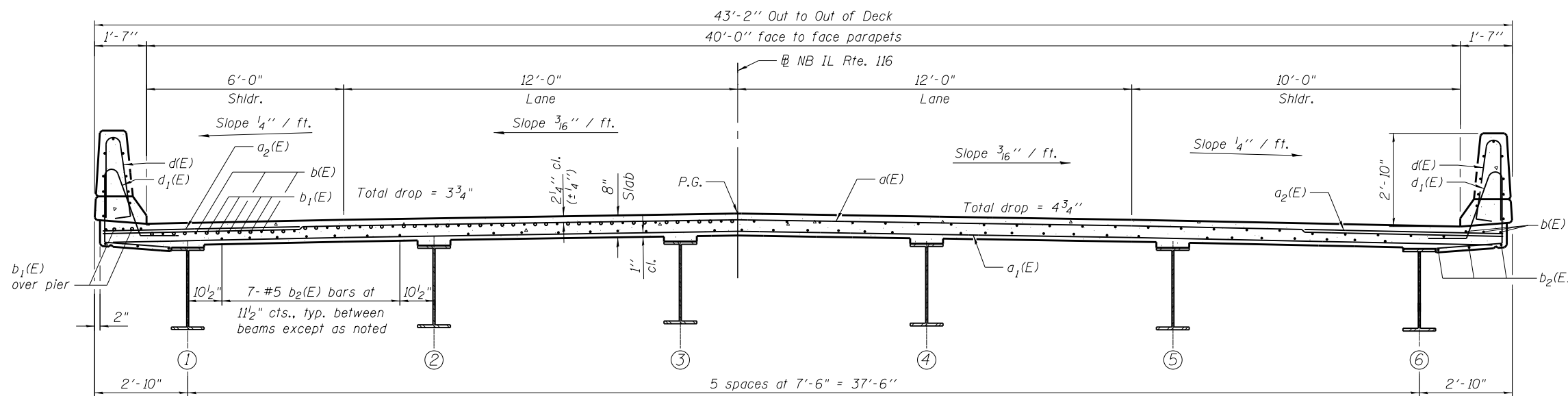
SHEET NO. S07 OF S22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1) BR	TAZEWELL	89	50
CONTRACT NO. 68671			ILLINOIS FED. AID PROJECT	

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



PLAN



NEAR PIER

NEAR MIDSPAN

CROSS SECTION
(Looking North)

MINIMUM BAR LAP

(Slab)
#5 bar = 2'-7"
#6 bar = 3'-1"

Notes:
See Sheet S10 of S22 for Section A-A.
See Sheet S9 of S22 for parapet reinforcement details.
Bars indicated thus 40x8-#5 etc. indicates
40 lines of bars with 8 lengths per line.
See Sheet S09 of S22 for superstructure details
and Bill of Material.

T:\Projects\10-221\1001-102B-Ridges_Ten Mile Creek-Phase II\Drawings\Structural\Final Plans\SHEETS\0468671-008-super.dgn



USER NAME = WAH
FILE NAME = D468671-008-super.dgn
PLOT DATE = 10/5/2012

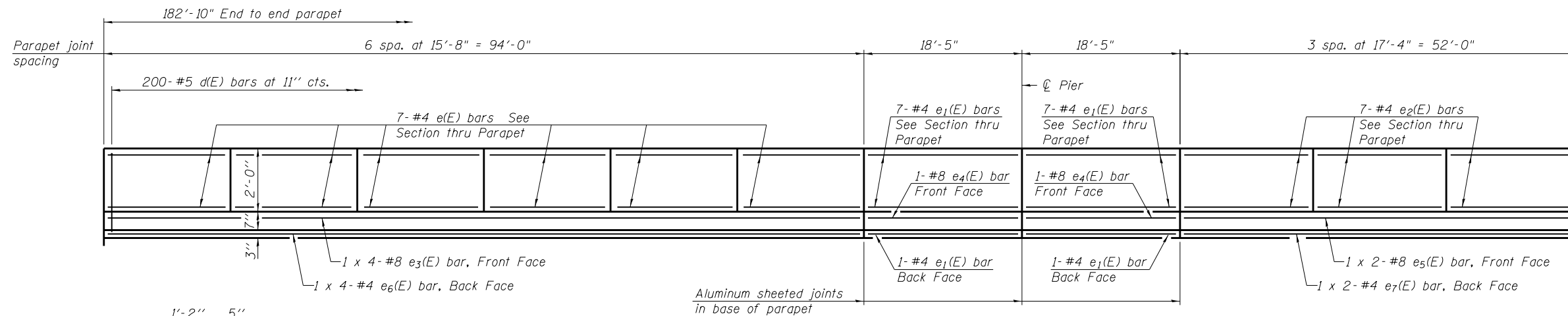
DESIGNED - OY	REVISED -
CHECKED - DB	REVISED -
DRAWN - CM	REVISED -
CHECKED - JB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

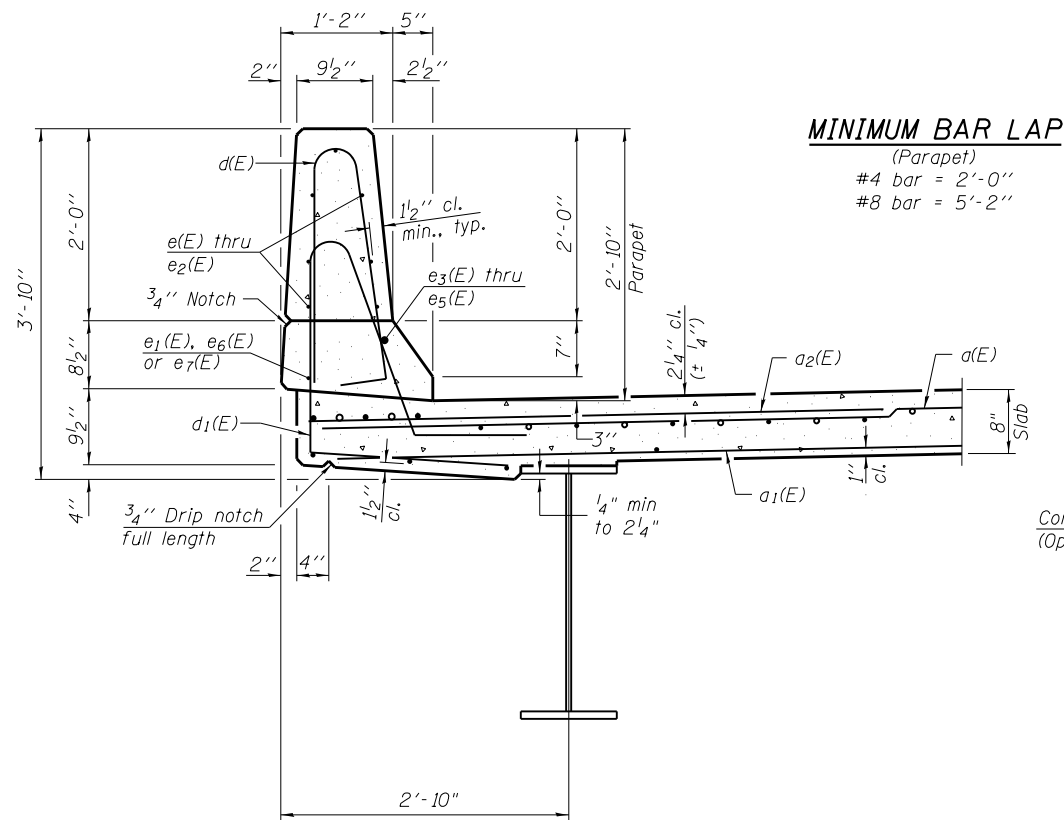
SUPERSTRUCTURE - PLAN AND CROSS SECTION
STRUCTURE NO. 090-0179

SHEET NO. S08 OF S22 SHEETS

F.A.P. RTE. 673	SECTION (102B-1) BR	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 51
			CONTRACT NO. 68671	
ILLINOIS FED. AID PROJECT				

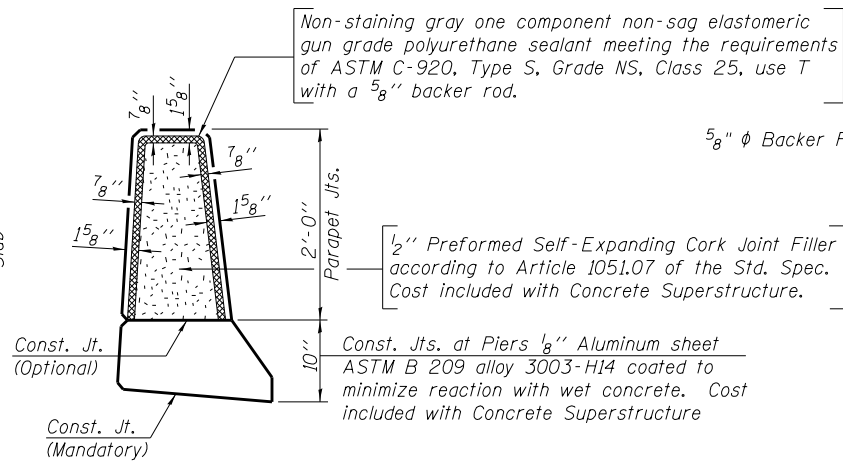


INSIDE ELEVATION OF PARAPET
(Looking at West Parapet - East Parapet similar)

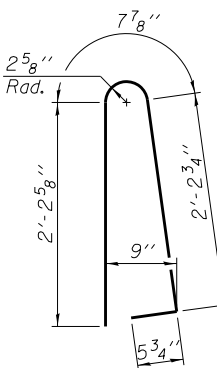


SECTION THRU PARAPET

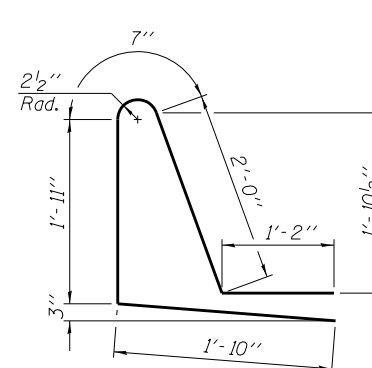
MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



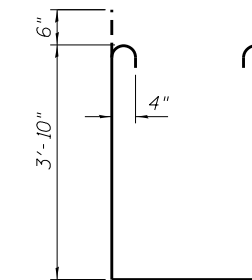
PARAPET JOINT DETAILS



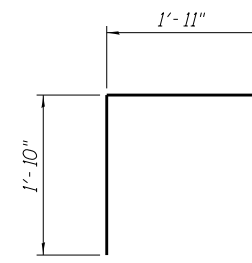
BAR d(E)



BAR d1(E)



BAR s(E)



BAR v(E)

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d(E)	400	#5	42'-6"	U
a1(E)	245	#5	41'-0"	—
a2(E)	800	#6	6'-6"	—
b(E)	376	#5	25'-1"	—
b1(E)	132	#6	26'-8"	—
b2(E)	287	#5	28'-4"	—
d(E)	400	#5	5'-7"	L
d1(E)	400	#5	7'-6"	L
e(E)	84	#4	15'-4"	—
e1(E)	32	#4	18'-1"	—
e2(E)	42	#4	17'-0"	—
e3(E)	8	#8	27'-5"	—
e4(E)	4	#8	18'-1"	—
e5(E)	4	#8	28'-7"	—
e6(E)	8	#4	25'-0"	—
e7(E)	4	#4	27'-0"	—
m(E)	10	#6	49'-6"	—
m1(E)	8	#6	9'-8"	—
m2(E)	16	#6	12'-0"	—
m3(E)	4	#6	2'-1"	—
m4(E)	10	#6	8'-4"	—
s(E)	92	#5	6'-10"	U
s1(E)	82	#4	11'-2"	U
v(E)	86	#5	3'-9"	L
Reinforcement Bars, Epoxy Coated		Pound	70980	
Concrete Superstructure		Cu. Yds.	290.8	

Bars indicated thus 1 x 4-#5 etc. indicates 1 line of bars with 4 lengths per line.

T:\Projects\10-221\1001-102B-edges_Ten Mile Creek-Phase II\Drawings\Structural\Final Plans\SHEETS\09-Super Details.dgn



USER NAME = WAH
FILE NAME = D468671-009-super_details.dgn
PLOT DATE = 10/5/2012

DESIGNED - OY
CHECKED - DB
DRAWN - CM
CHECKED - JB

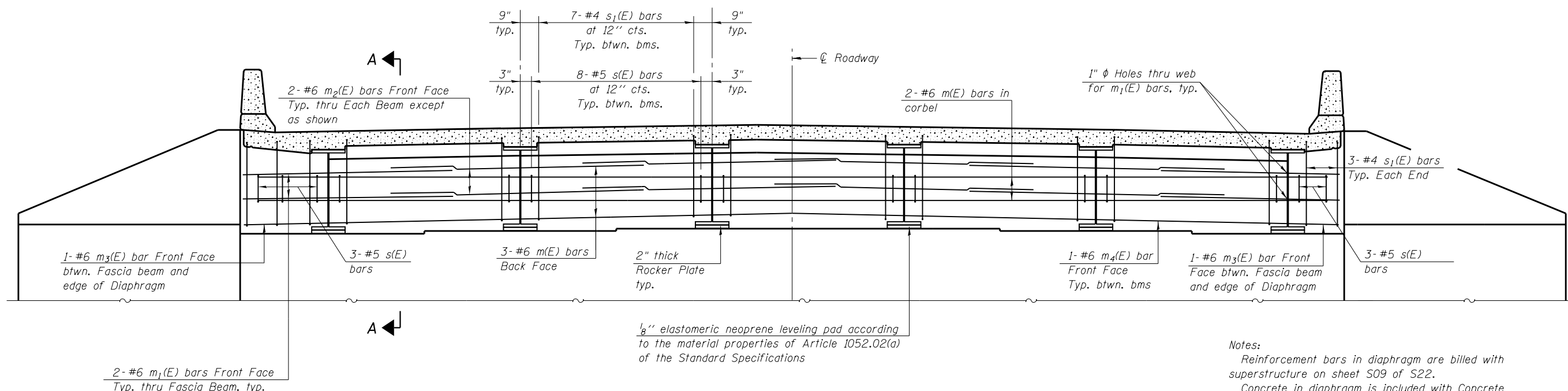
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 090-0179

SHEET NO. 09 OF 522 SHEETS

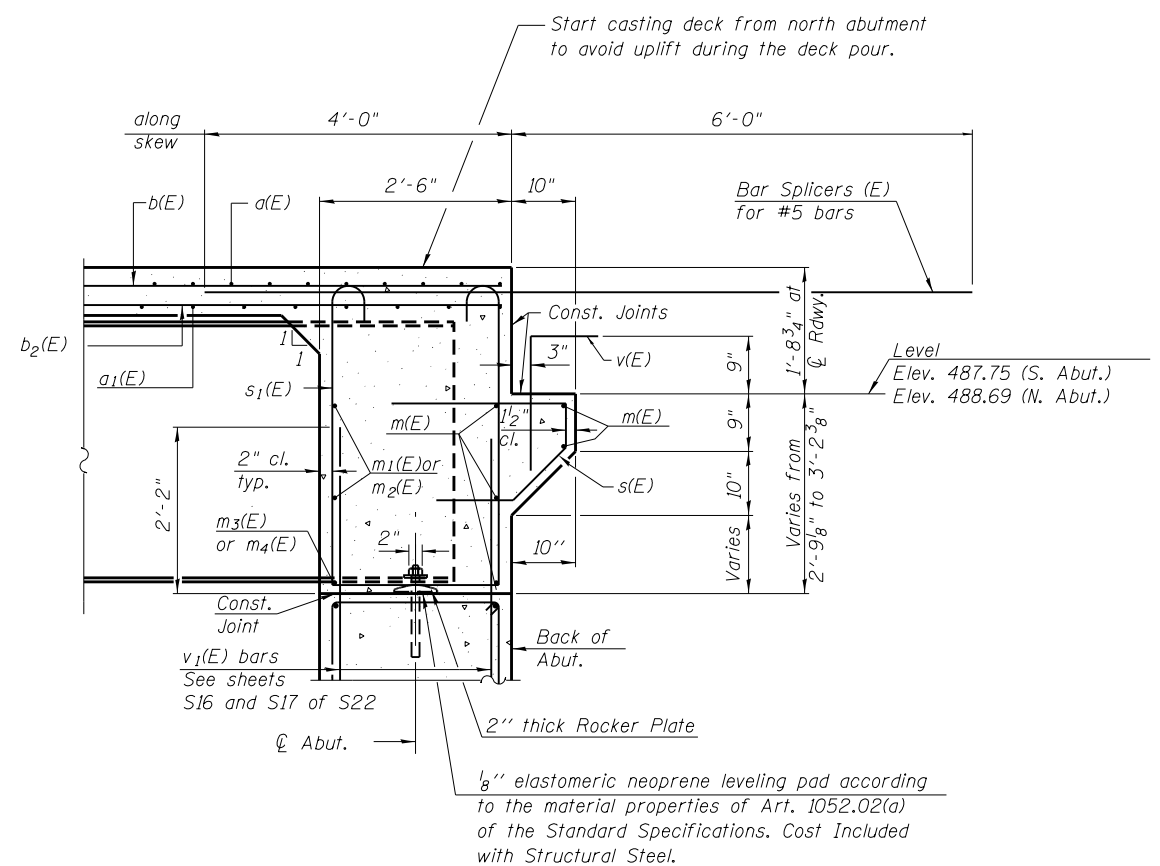
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1) BR	TAZEWELL	89	52
CONTRACT NO. 68671				
ILLINOIS FED. AID PROJECT				



DIAPHRAGM ELEVATION AT ABUTMENT
(North Diaphragm shown, looking North, South diaphragm similar)

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet S09 of S22.
Concrete in diaphragm is included with Concrete Superstructure on sheet S09 of S22.
For details of bars s(E) & s1(E) see sheet S09 of S22.
The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

MIN. BAR LAP
#6 bar = 3'-4"



SECTION A-A
Dimensions at right angles to abutment, except as shown.

T:\Projects\10-221\1001-10zB-edges_Ten Mile Creek-Phase II\Drawings\Structural\SHEETS\010-Diaphragm.dgn



USER NAME = WAH	DESIGNED - OY	REVISED -
FILE NAME = D468671-010-Diaphragm.dgn	CHECKED - DB	REVISED -
PLOT DATE = 10/5/2012	DRAWN - CM	REVISED -
	CHECKED - JB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

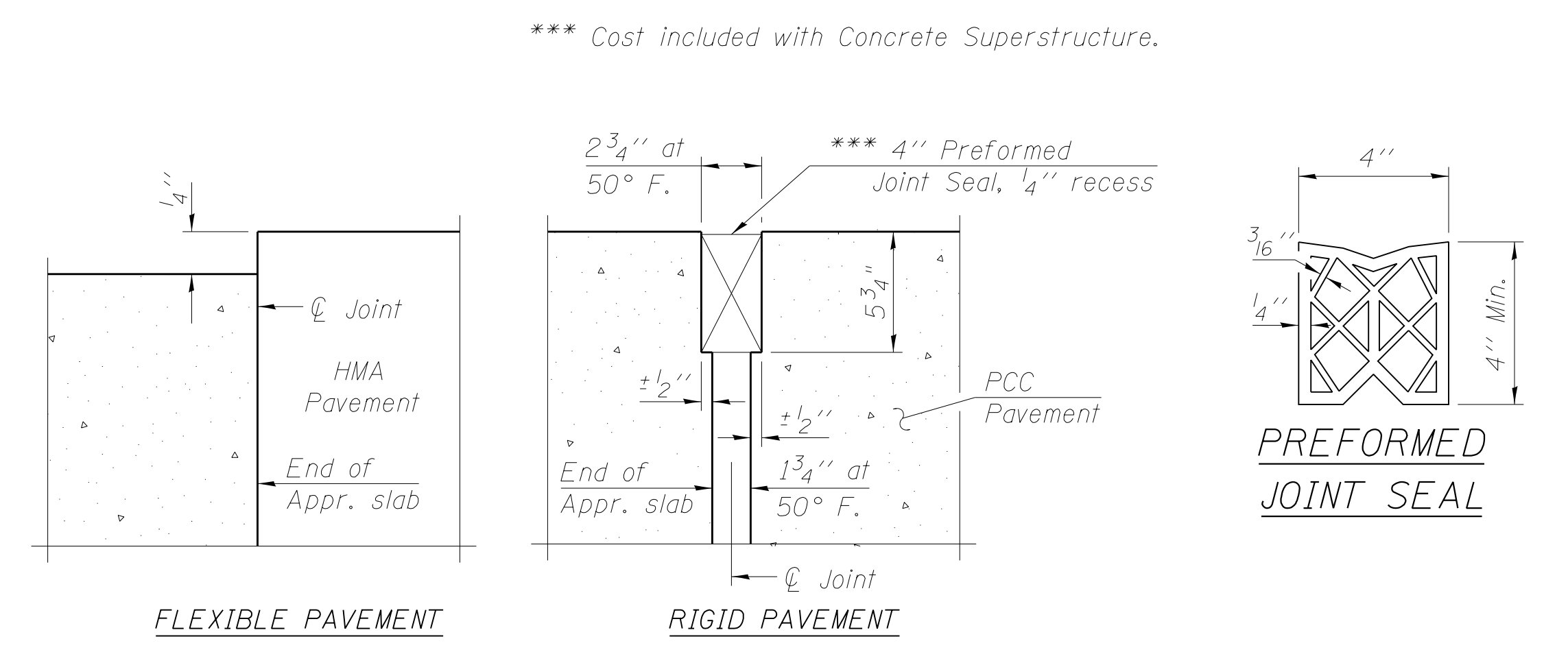
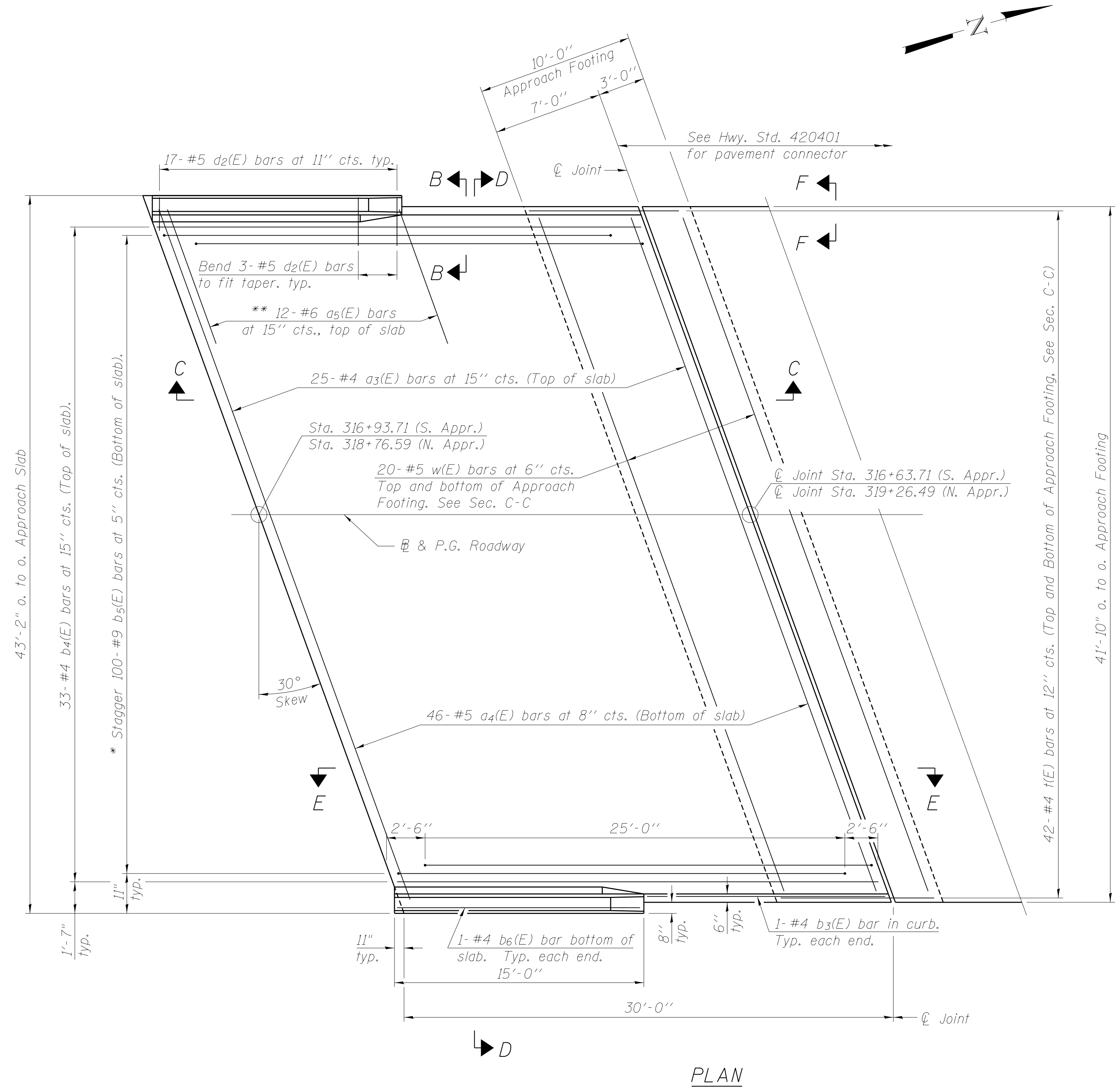
INTEGRAL ABUTMENT DIAPHRAGM DETAILS
STRUCTURE NO. 090-0179

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1) BR	TAZEWELL	89	53
CONTRACT NO. 68671				

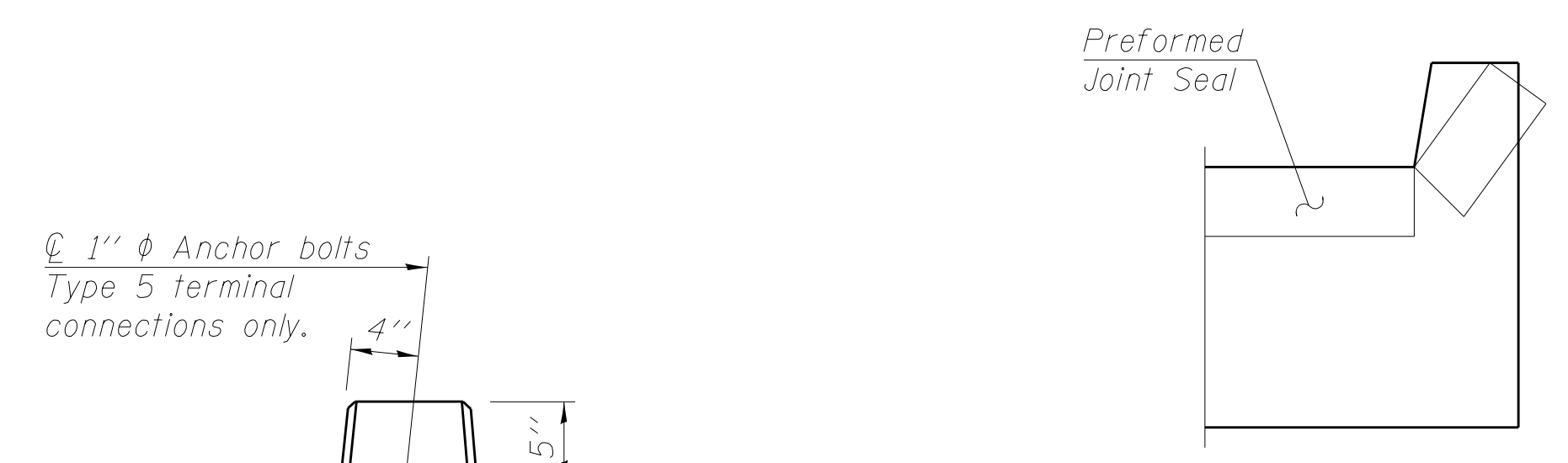
SHEET NO. S10 OF S22 SHEETS

ILLINOIS FED. AID PROJECT

Notes:
See sheet S12 of S22 for Sections C-C & D-D and View E-E.
a3(E) and a4(E) bar spacings measured along \varnothing Rdwy.

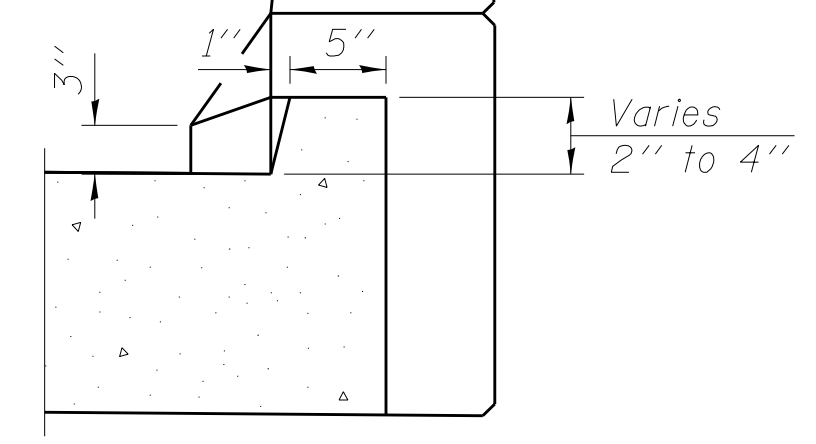


DETAIL A



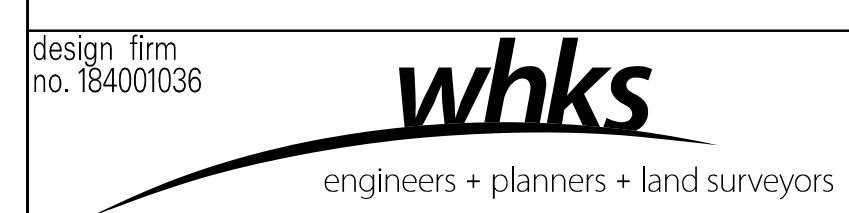
VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



VIEW B-B

Notes:
Stationing for North Approach includes a station equation.
See General Plan and Elevation sheet S01 of S22 for station equation.
North Approach slab shown. South Approach slab similar.
* Tilt #9 b5(E) bars as required to maintain clearance.
** Space between a3(E) bars, typ. each parapet.



USER NAME = *OPERATOR*	DESIGNED - RJN	REVISED
FILE NAME = 090-0179-0468671.dgn	CHECKED - CWC	REVISED
PLOT SCALE = 0:1' = 1/4" = 1/4"	DRAWN - DLH	REVISED
PLOT DATE = 4/30/2013	CHECKED - CWC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

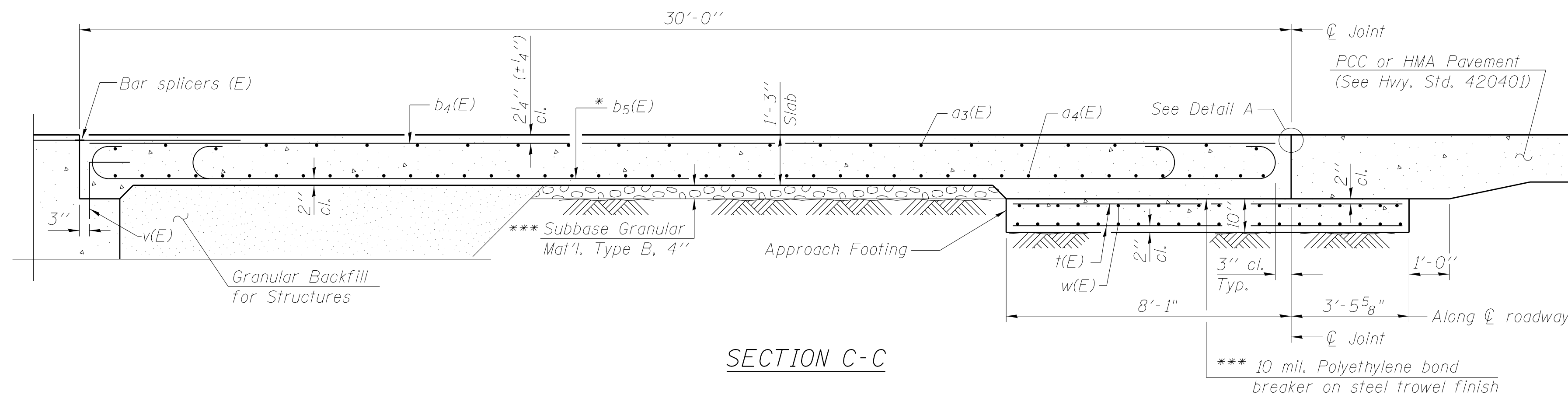
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 090-0179

SHEET NO. S11 OF S22 SHEETS

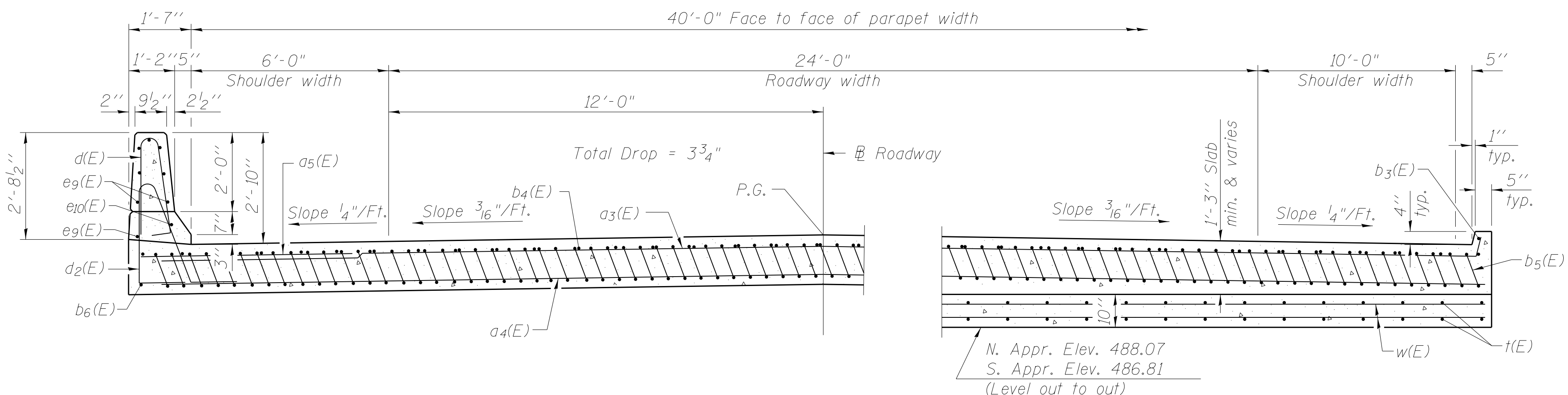
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	54
CONTRACT NO. 68671				

ILLINOIS FED. AID PROJECT

(Sheet 1 of 2)



SECTION C-C



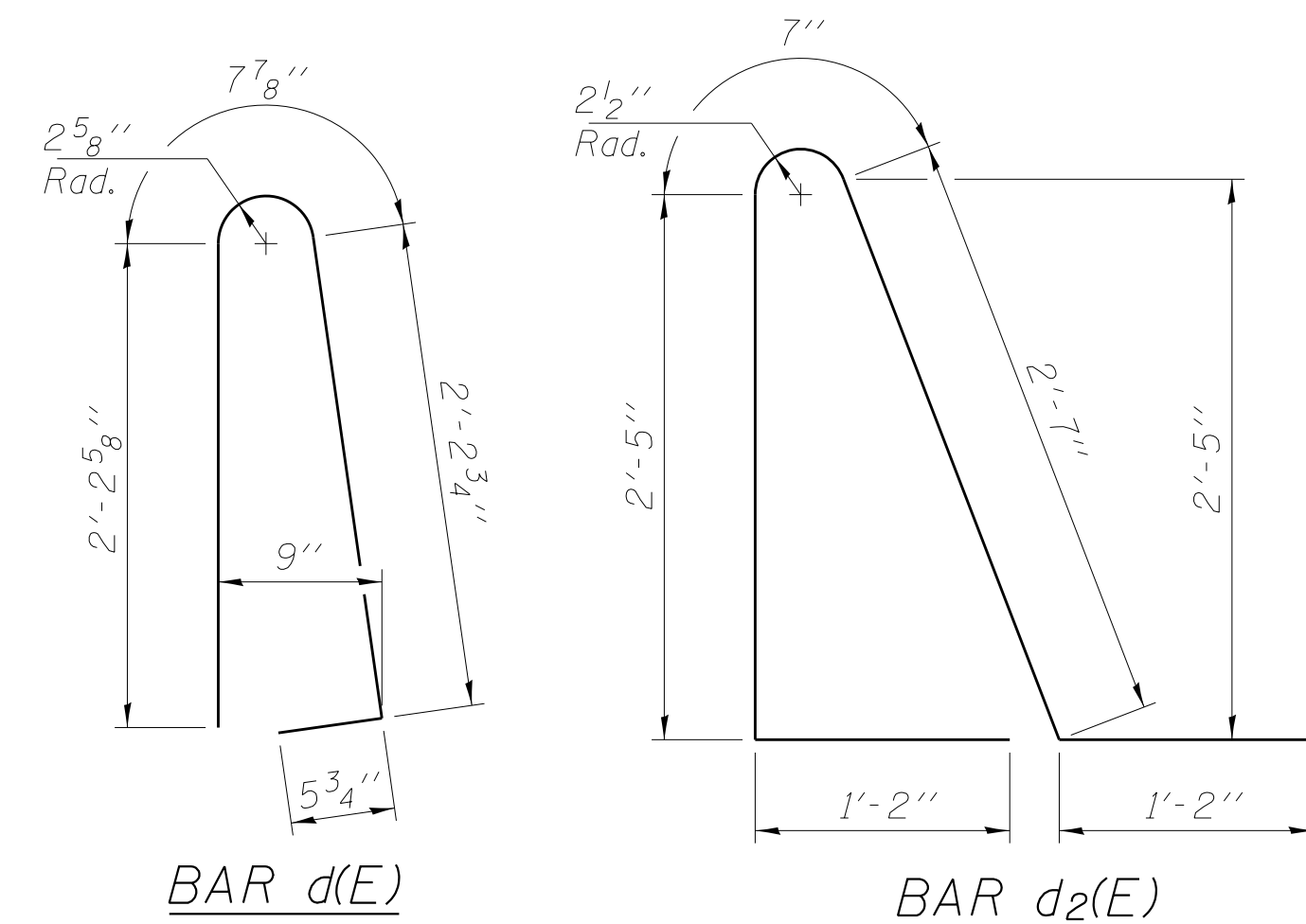
NEAR ABUTMENT

SECTION D-D

(See Plan for dimensions not shown)

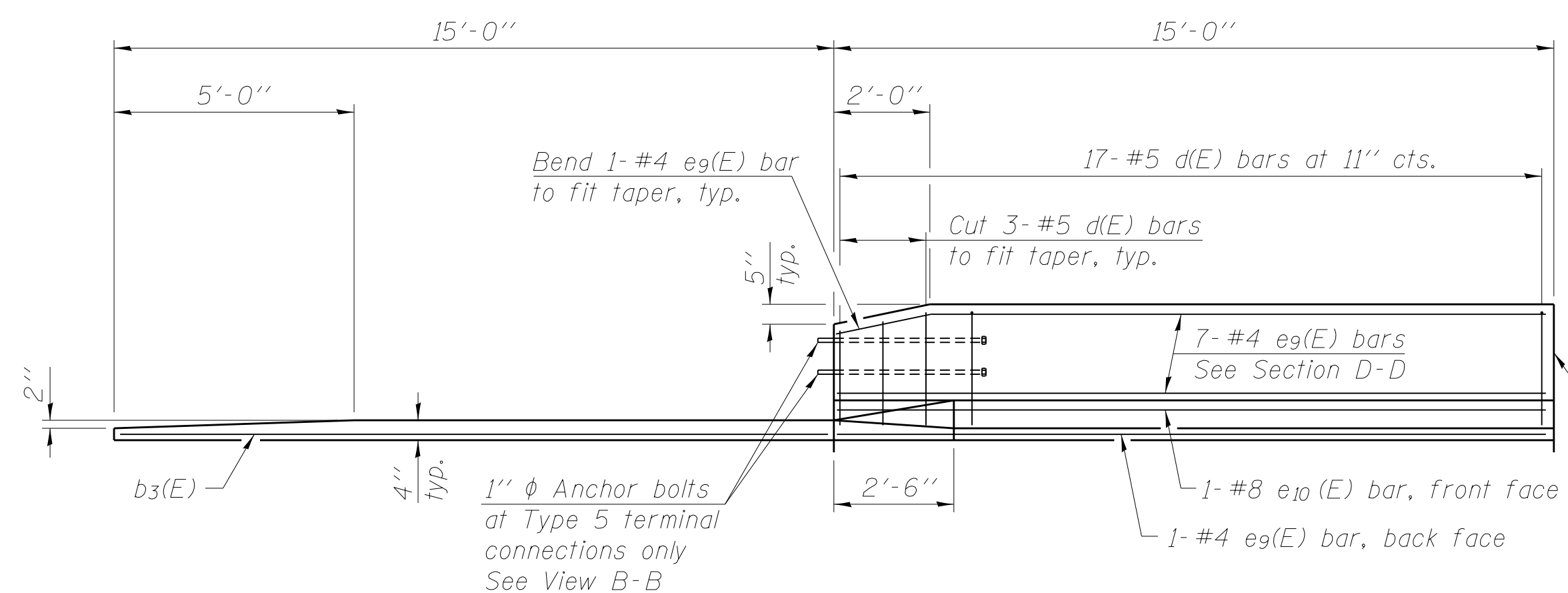
AT APPROACH FOOTING

Notes:
 See sheet S11 of S22 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet S09 of S22.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 For bar splicer details, see sheet S19 of S22.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet S02 of S22.
 For additional parapet details, see sheet S09 of S22.

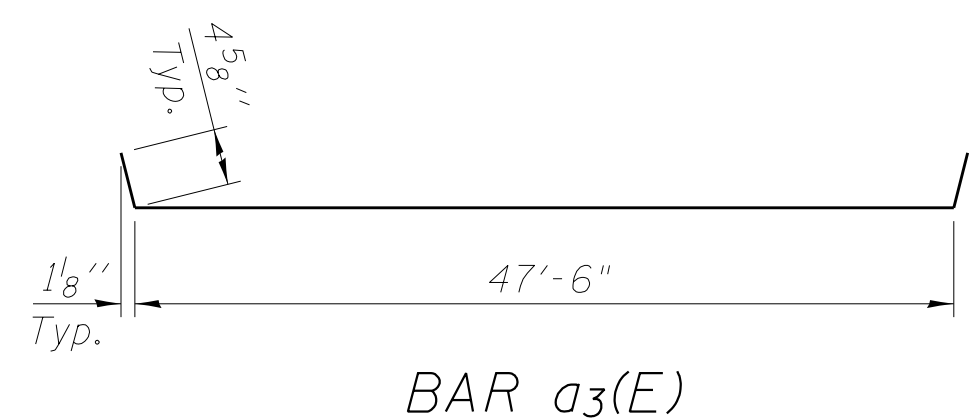
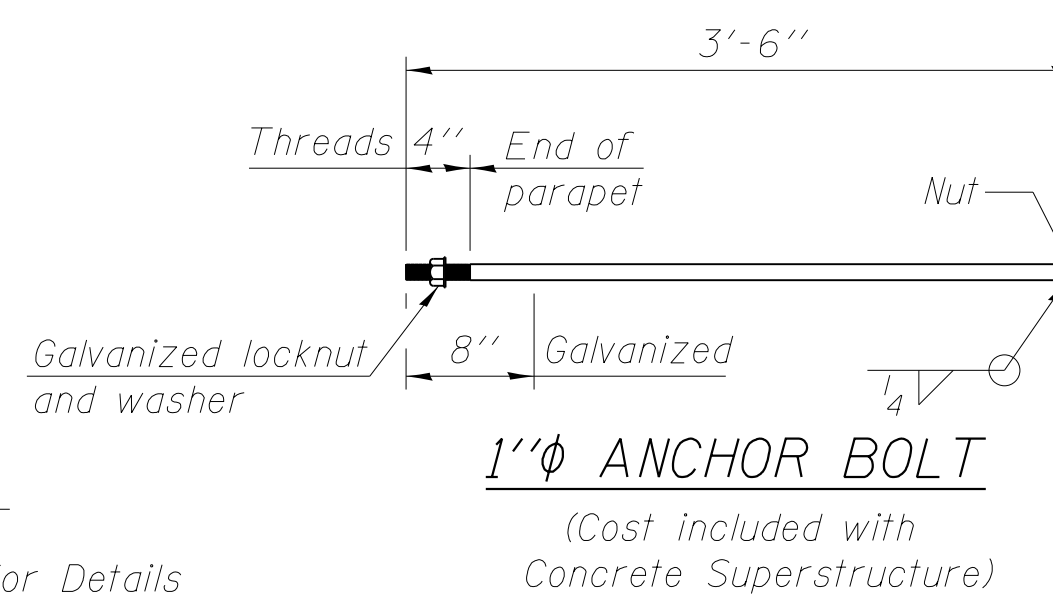


* Tilt #9 b₅(E) bars as required to maintain clearance.

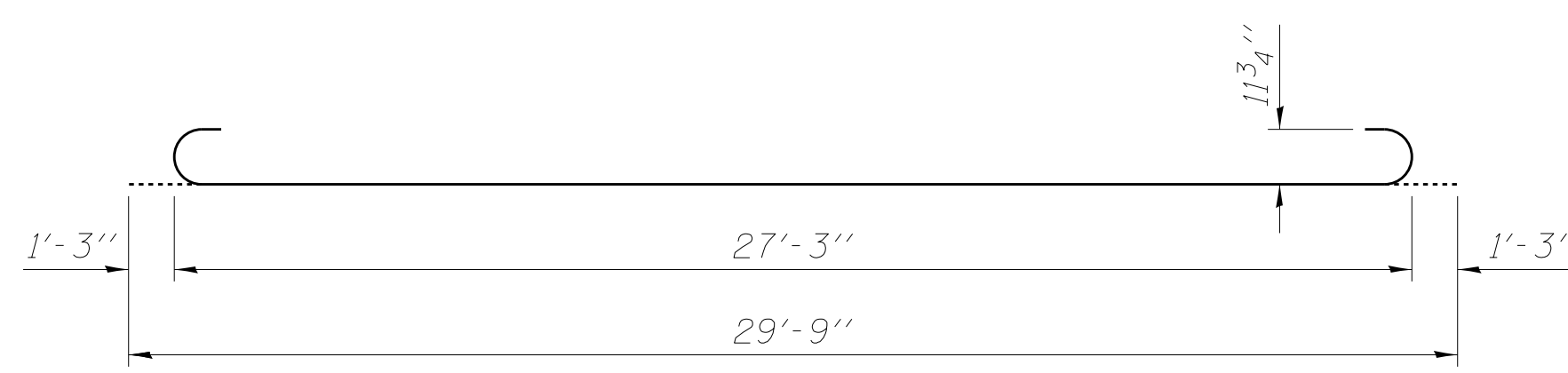
*** Cost included with Concrete Superstructure.



VIEW E-E



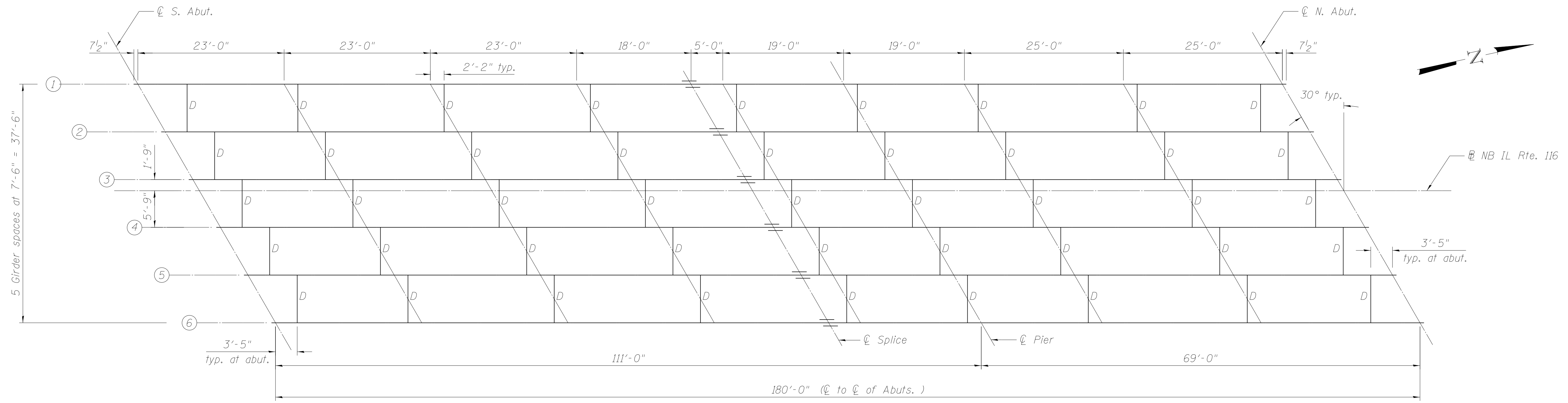
BAR a₃(E)



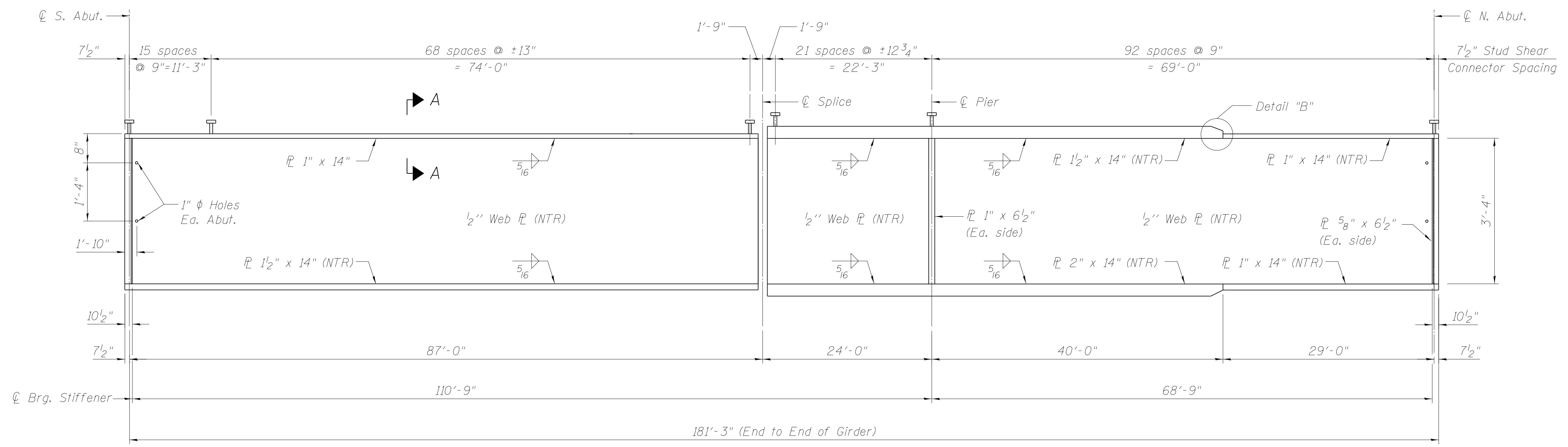
BAR b₅(E)

TWO APPROACHES
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₃ (E)	50	#4	48'-4"	┌───┐
a ₄ (E)	92	#5	48'-0"	┌───┐
a ₅ (E)	48	#6	6'-6"	┌───┐
b ₃ (E)	4	#4	15'-2"	┌───┐
b ₄ (E)	66	#4	29'-8"	┌───┐
b ₅ (E)	200	#9	29'-9"	┌───┐
b ₆ (E)	4	#4	14'-8"	┌───┐
d(E)	68	#5	5'-7"	┌───┐
d ₂ (E)	68	#5	7'-11"	┌───┐
e ₉ (E)	32	#4	14'-8"	┌───┐
e ₁₀ (E)	4	#8	14'-8"	┌───┐
t(E)	168	#4	11'-3"	┌───┐
w(E)	80	#5	48'-0"	┌───┐
Concrete Superstructure		Cu. Yd.	131.4	
Concrete Structures		Cu. Yd.	29.8	
Reinforcement Bars, Epoxy Coated		Pound	35,010	



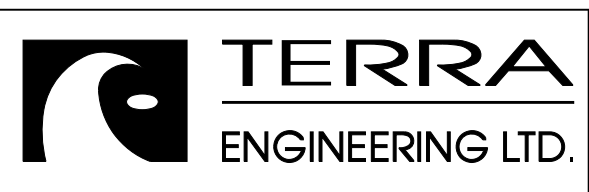
FRAMING PLAN



GIRDER ELEVATION

- Notes:
1. All flange and web splice plates, except filler plates, shall be M270 Grade 50W and meet notch toughness requirements.
 2. Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
 3. All girder flanges, webs and bearing stiffeners shall be M270 Grade 50W.
 4. All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted.
 5. For Section A-A, Detail B see sheet S14 of S22.

M:\JL RT 116 OVER TEN MILE CREEK\CIVIL\Structural\Final Plans\SHEETS\0468671-013-Framing Plan.dgn



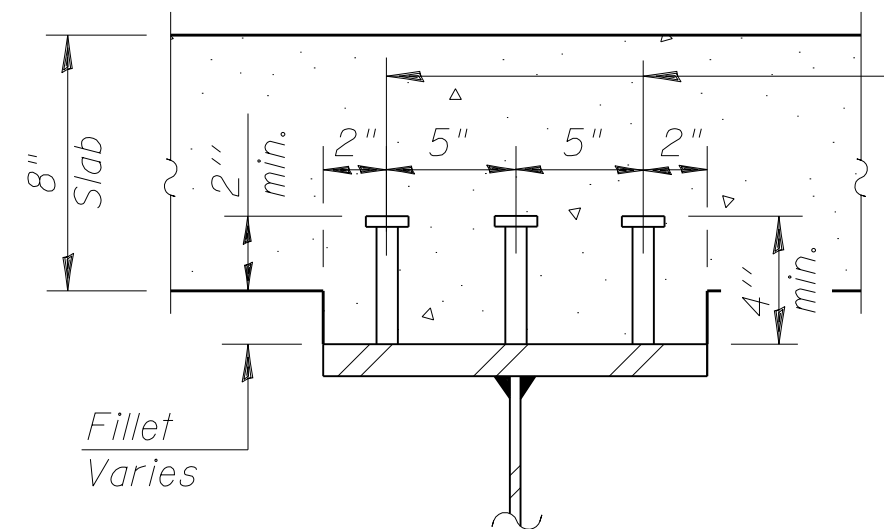
USER NAME = cvm	DESIGNED - OY	REVISED -
FILE NAME = D468671-013-Framing Plan.dgn	CHECKED - DB	REVISED -
PLOT DATE = 10/4/2012	DRAWN - CM	REVISED -
	CHECKED - JB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
STRUCTURE NO. 090-0179

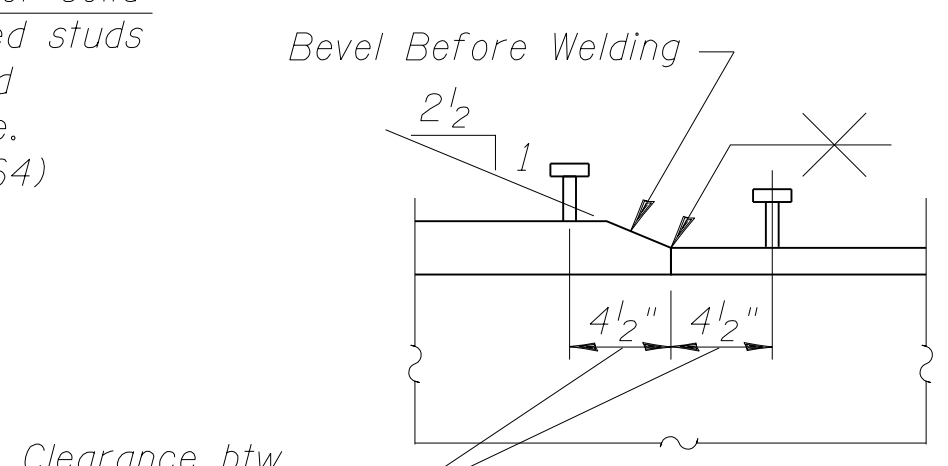
SHEET NO. S13 OF S22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1) BR	TAZEWELL	89	56
CONTRACT NO. 68671			ILLINOIS FED. AID PROJECT	

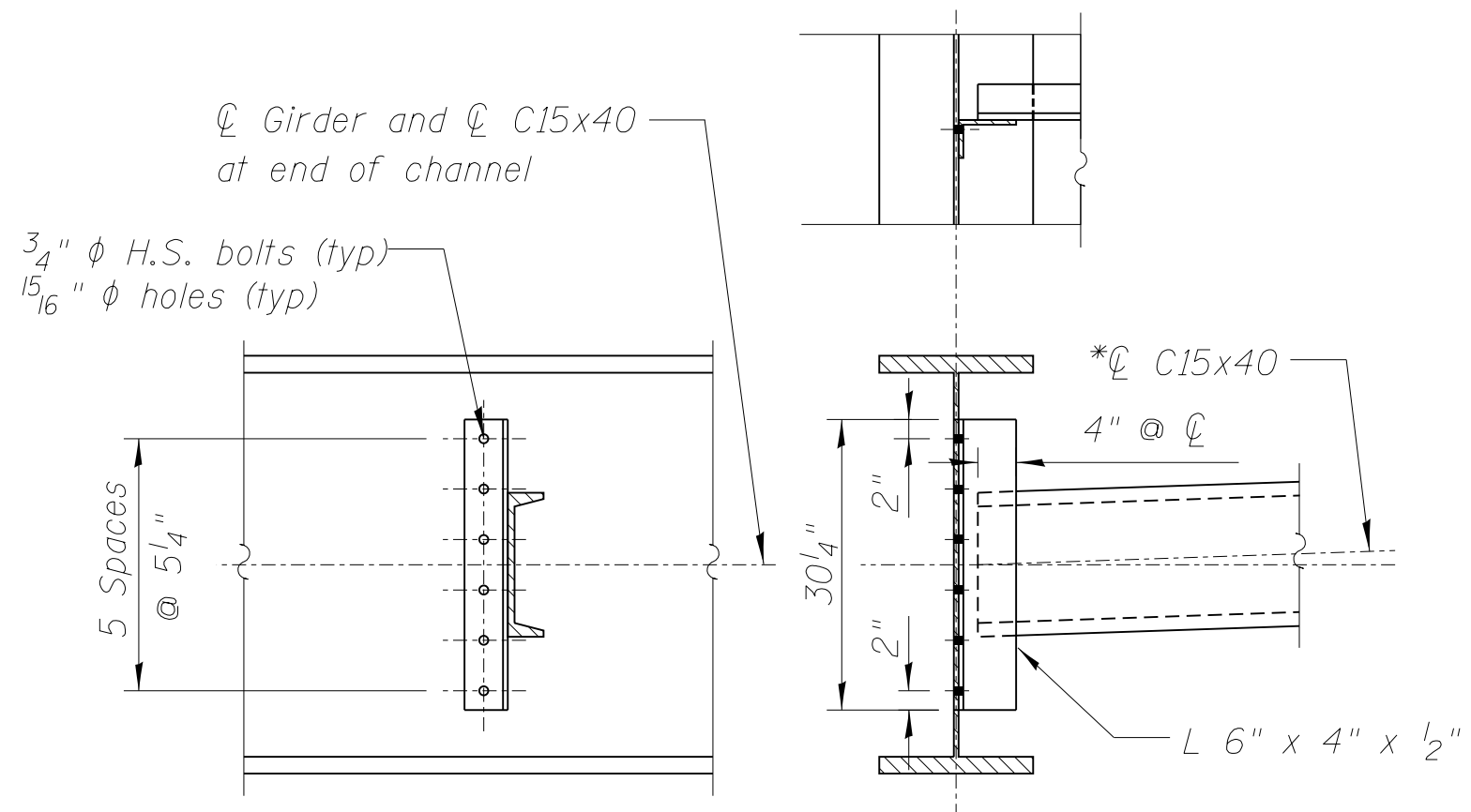


SECTION A-A

3/4" ϕ Granular or solid flux filled headed studs automatically end welded to flange. (No. Req'd. = 3,564)

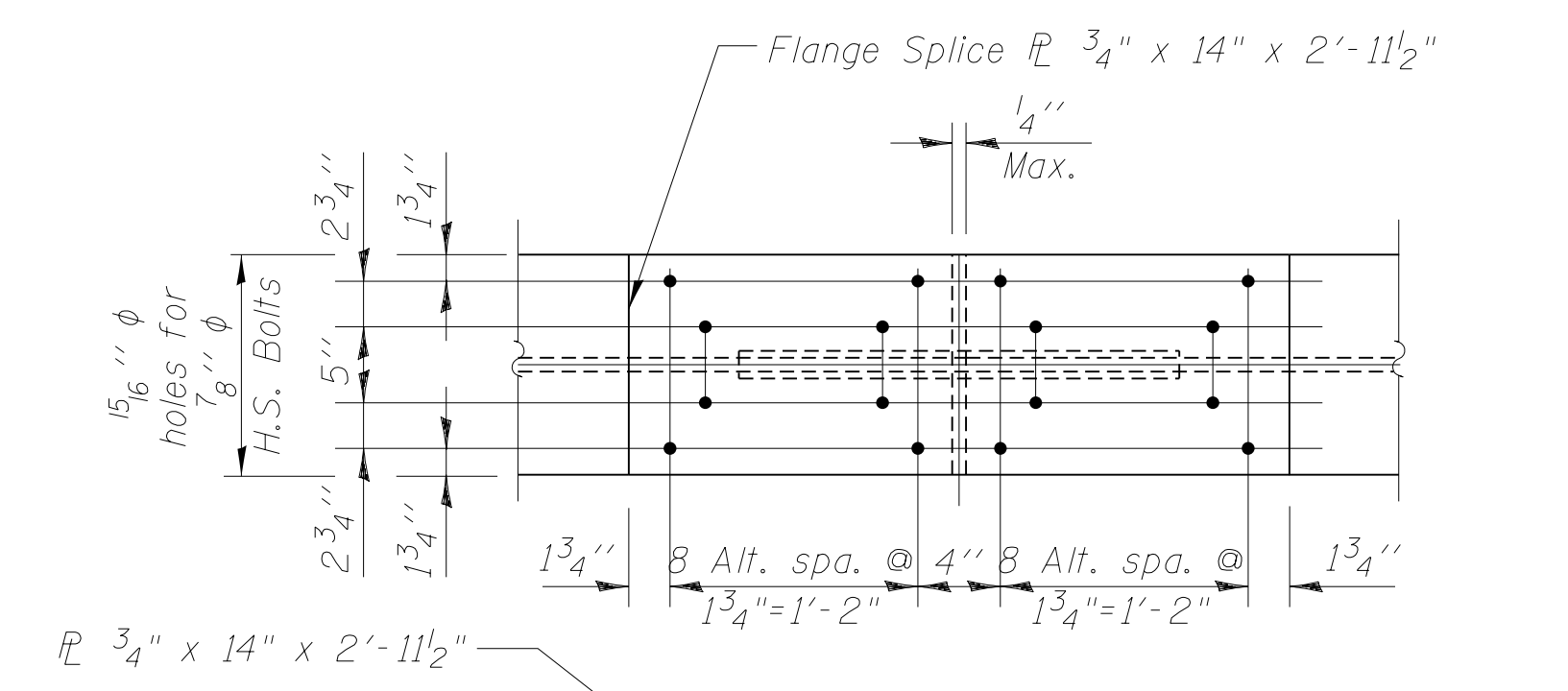


DETAIL "B"

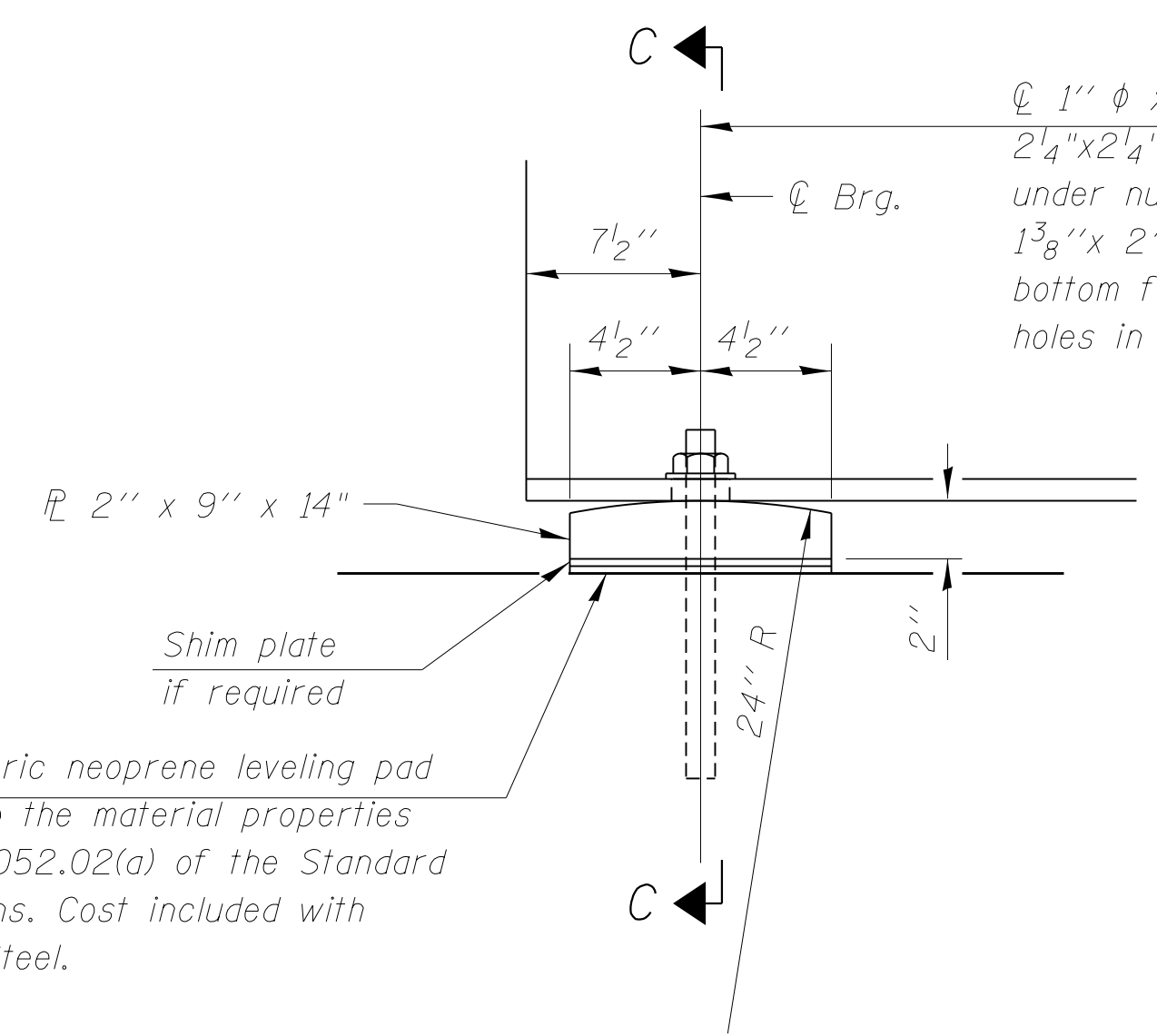


DIAPHRAGM D
45 Required

Notes:
Two hardened washers required for each set of oversized holes.
*Alternate channels C15x50 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.
3/4" ϕ HS bolts, 5/16" ϕ holes

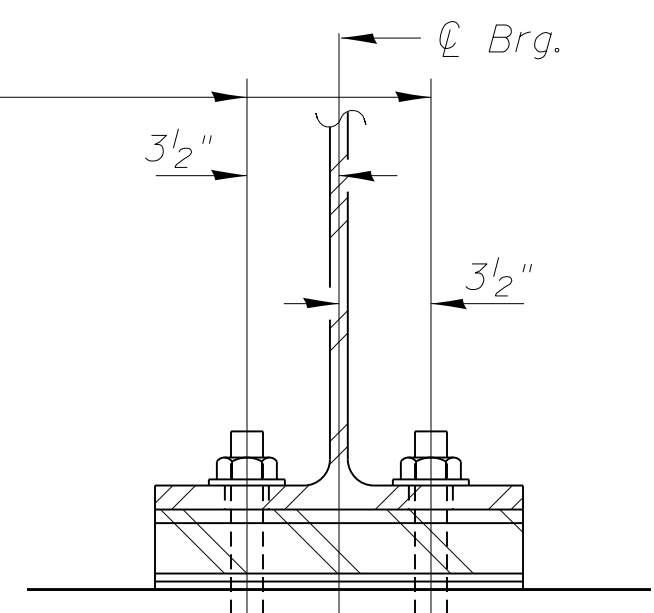


DETAIL OF SPLICE

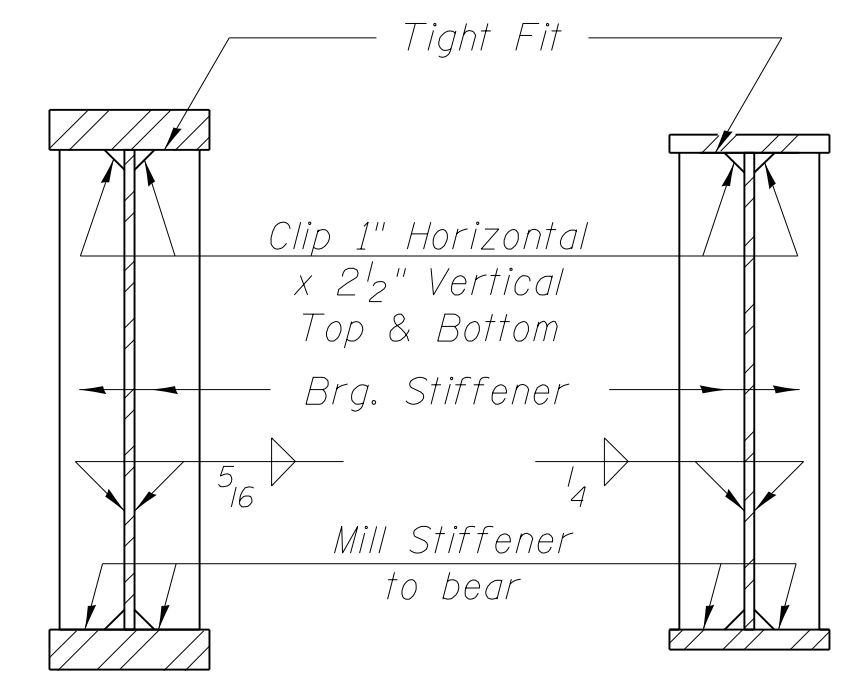


ELEVATION AT ABUTMENT

1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

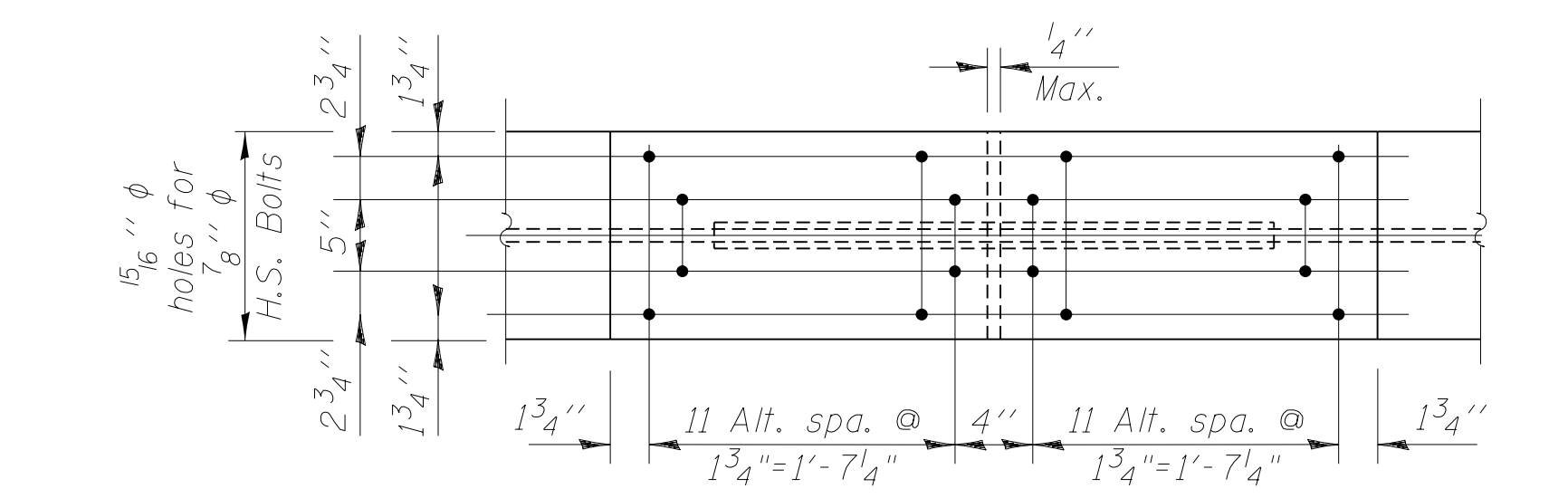
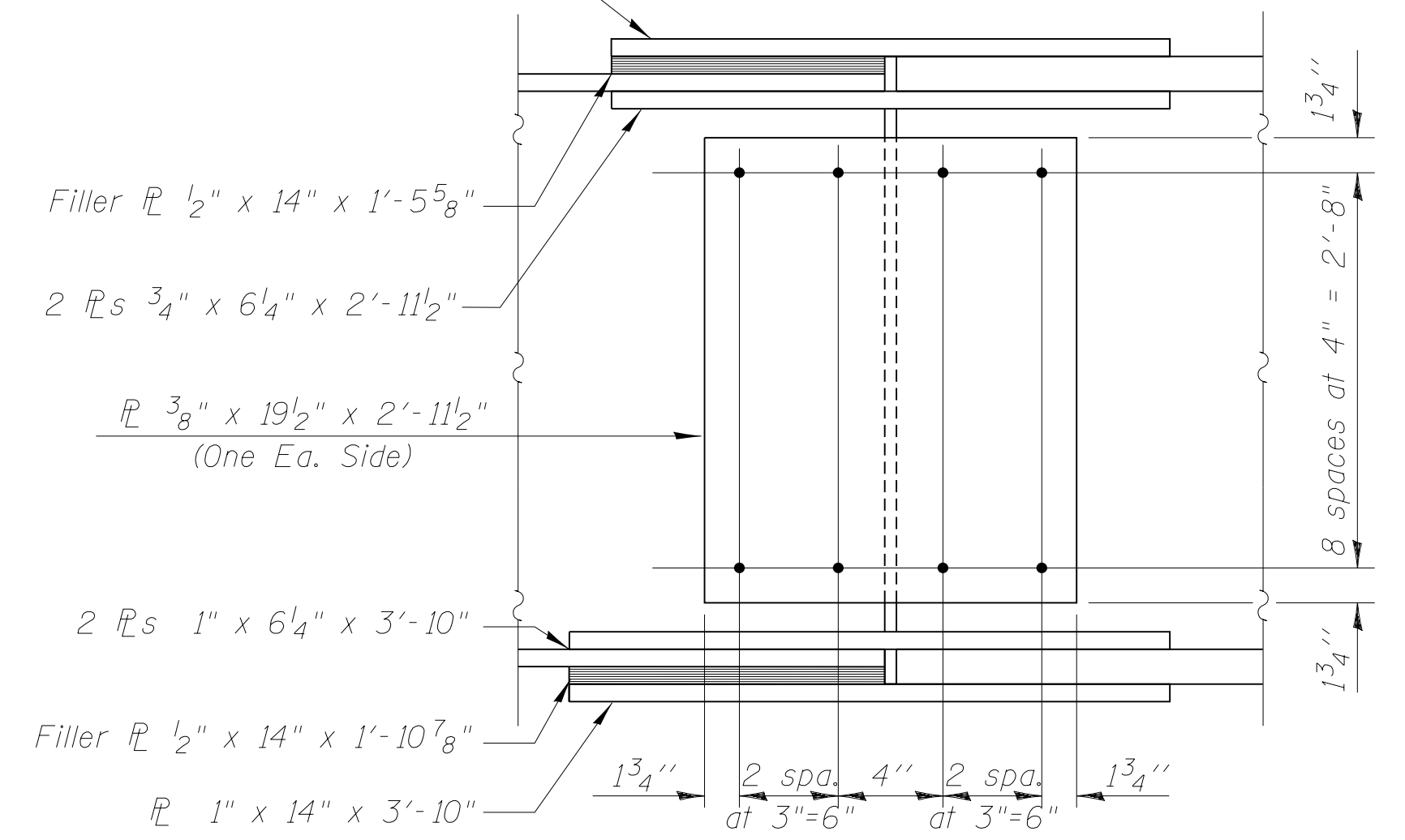


SECTION C-C



SECTION AT PIER

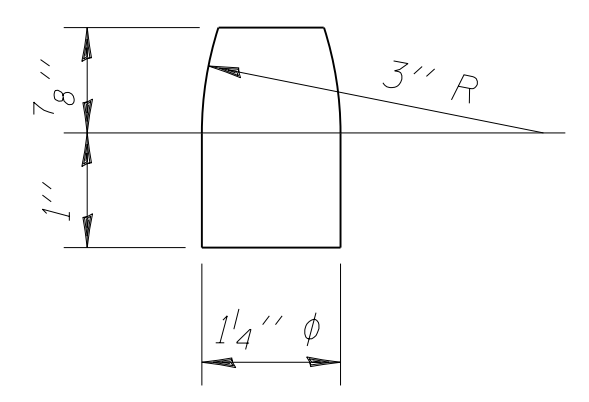
SECTION AT ABUTMENT



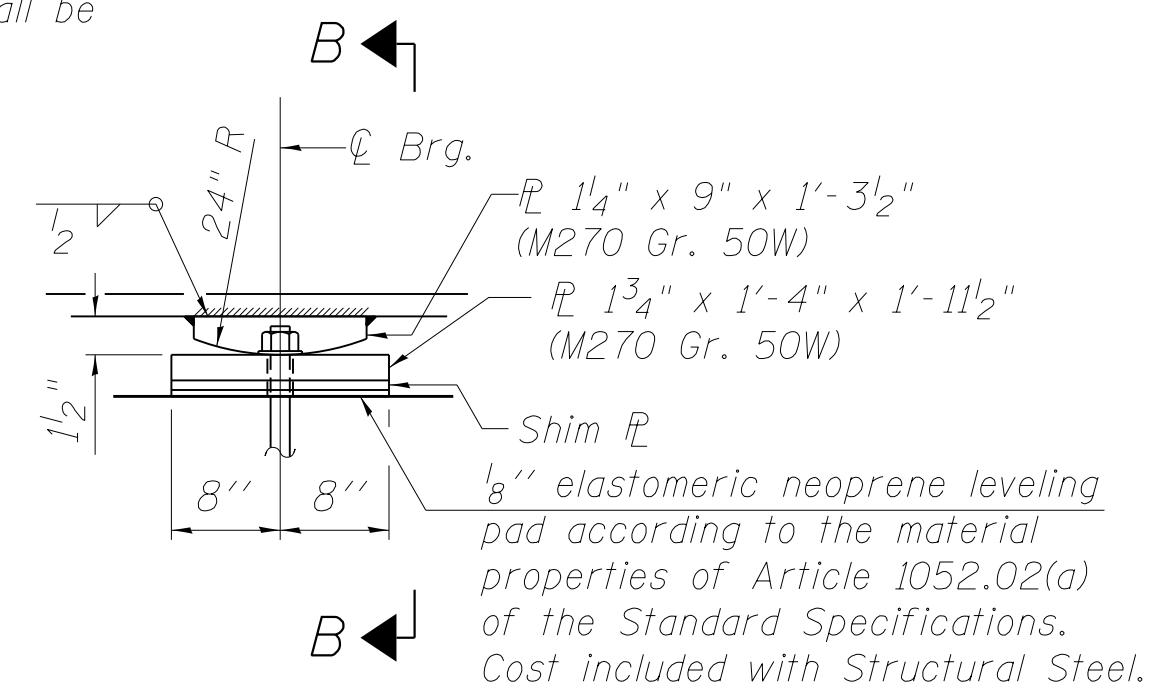
ESTIMATED SHIM PLATE THICKNESS

Beam	S. Abut.	N. Abut.	Pier
3	1/2"	1/2"	1/2"

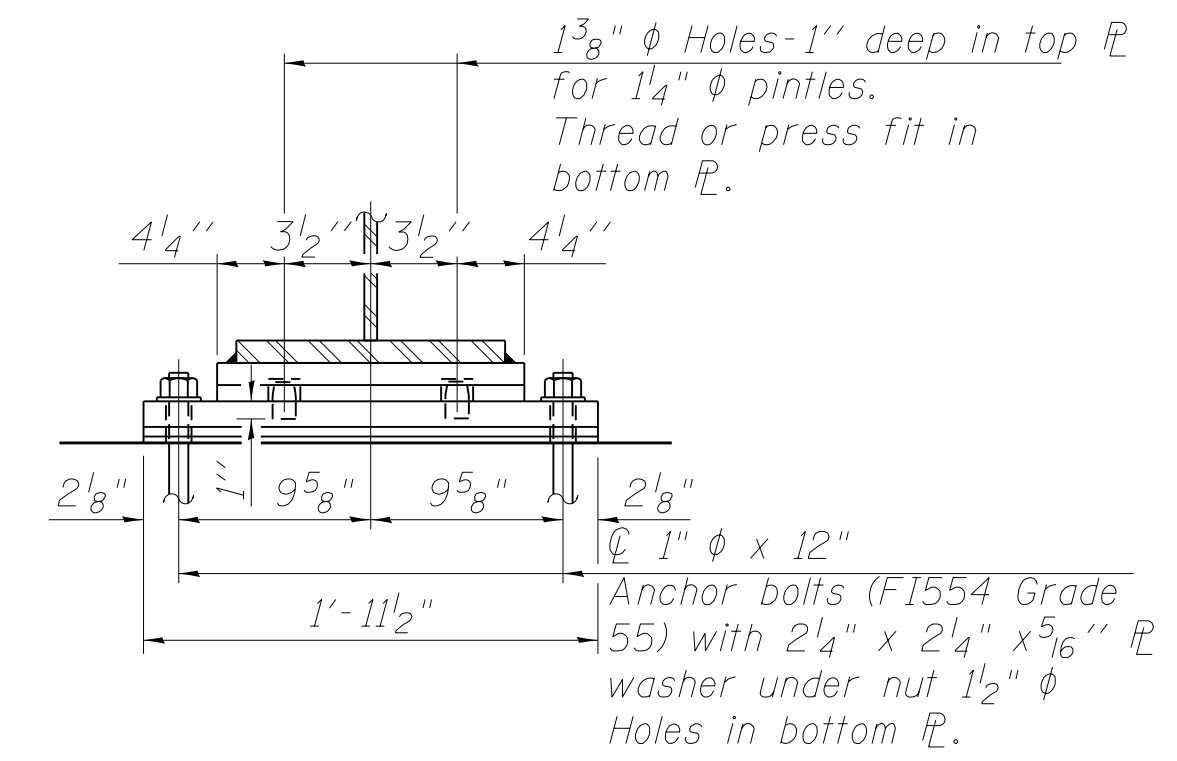
In addition to other shims required to be provided, Contractor shall supply and install a 1/2" shim with the same plan dimensions as the bottom bearing plate for beam #3 at all of the substructures as shown in the above table. These shims shall be included in the cost of Structural Steel.



DETAIL OF PINTLE



ELEVATION AT PIER



SECTION B-B

FIXED BEARING

Notes:
Anchor bolts shall be ASTM F1554 (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A 307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36 ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

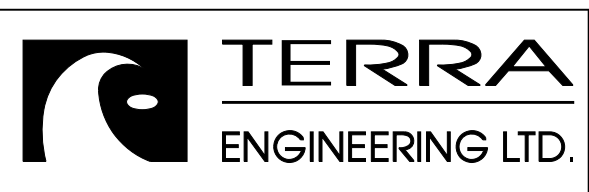
The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates of shims and placed as shown on bearing details.

BILL OF MATERIAL

ITEM	EACH	TOTAL
Anchor Bolts, 1"	Each	36
Stud Shear Connector	Each	3564

M:\JL RT 116 OVER TEN MILE CREEK\CIVIL\AS\Structural\Final Plans\SHEET\014-Steel details.dgn



USER NAME = cvm
FILE NAME = D468671-014-Steel details.dgn
PLOT DATE = 10/4/2012

DESIGNED - OY
CHECKED - DB
DRAWN - CM
CHECKED - JB
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL DETAILS
STRUCTURE NO. 090-0179

SHEET NO. S14 OF S22 SHEETS

F.A.P. RTE. 673
SECTION (102B-1) BR
COUNTY TAZEWELL
TOTAL SHEETS 89
SHEET NO. 57
CONTRACT NO. 68671
ILLINOIS FED. AID PROJECT

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1	Pier	0.6 Sp. 2
I_s	(in ⁴)	17195	23734	14436
$I_c(n)$	(in ⁴)	44624		35187
$I_c(3n)$	(in ⁴)	32431		26359
$I_c(cr)$	(in ⁴)		29200	
S_s	(in ³)	915	1001	687
$S_c(n)$	(in ³)	1238		940
$S_c(3n)$	(in ³)	1141		864
$S_c(cr)$	(in ³)		1392	
DC1	(k/')	0.99	1.09	0.96
M _{DC1}	(k)	932	1265	53
DC2	(k/')	0.15	0.15	0.15
M _{DC2}	(k)	146	189	10
DW	(k/')	0.38	0.38	0.38
M _{DW}	(k)	365	473	25
M _{ℓ + IM}	(k)	1336	1373	838
M _u (Strength I)	(k)	4233	4930	1583
$\phi_r M_n$	(k)	5922	5997	4777
f_s DC1	(ksi)	12.22	15.17	0.93
f_s DC2	(ksi)	1.54	1.63	0.14
f_s DW	(ksi)	3.84	4.08	0.35
f_s (ℓ + IM)	(ksi)	12.95	11.83	10.7
f_s (Service II)	(ksi)	34.43	36.26	15.32
0.95R _n F _{yt}	(ksi)	47.50	47.50	47.50
V _f	(k)	30.1	30.1	29.5

* Compact Section

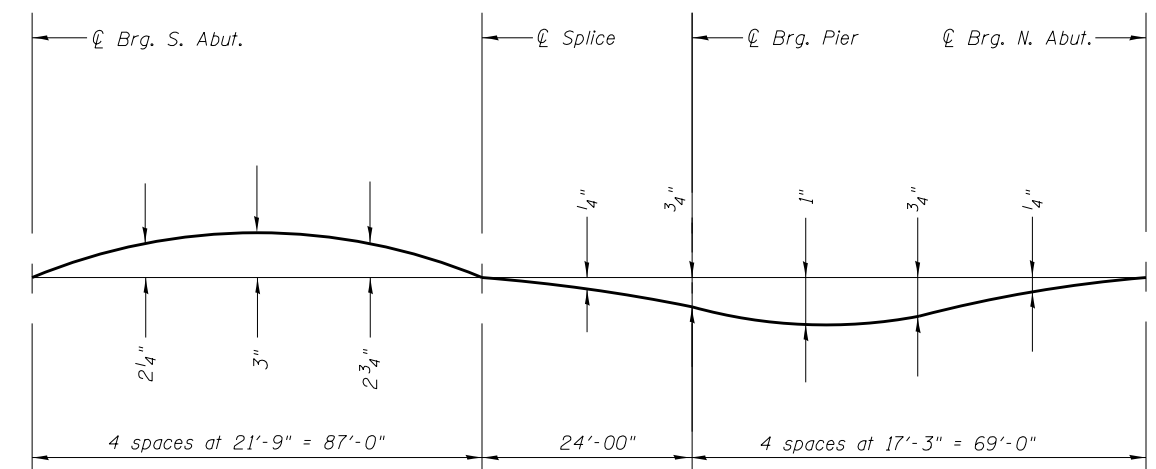
INTERIOR GIRDER REACTION TABLE				
		S. Abut.	Pier	N. Abut.
R _{DC1}	(k)	43.42	119.14	15.88
R _{DC2}	(k)	6.62	17.96	2.43
R _{DW}	(k)	16.55	44.85	6.08
R _{ℓ + IM}	(k)	100.57	160.24	78.04
R _{Total}	(k)	167.15	342.20	102.43

- I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).
- $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to short-term composite live loads (in⁴ and in³).
- $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).
- $I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite dead loads (in⁴ and in³).
- DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
M_{ℓ + IM}: Un-factored live load moment plus dynamic load allowance (impact) ((kip-ft.).
M_u (Strength I): Factored design moment (kip-ft.).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{ℓ + IM}
 $\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.) and appendix A criteria for negative moment.
 f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_{nc}
 f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
M_{DC2} / S_{c(3n)} or M_{DC2} / S_{c(cr)} as applicable.
 f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
M_{DW} / S_{c(3n)} or M_{DW} / S_{c(cr)} as applicable.
 f_s (ℓ + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
M_{ℓ + IM} / S_{c(3n)} or M_{ℓ + IM} / S_{c(cr)} as applicable.
 f_s (Service II): Sum of stresses as computed below (ksi).
 f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (ℓ + IM)
0.95R_nF_{yt}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
 f_s (Total) Strength I: Sum of stresses as computed below on non-compact section (ksi).
1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (ℓ + IM)
 $\phi_r F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7.2 (ksi).
V_f: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

* TOP OF WEB ELEVATIONS

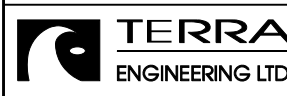
Location	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6
℄ S. Abut.	488.24	488.50	488.64	488.60	488.48	488.18
℄ Splice	488.58	488.85	488.98	488.94	488.82	488.53
℄ Brg. Pier	488.73	489.00	489.13	489.09	488.97	488.69
℄ N. Abut.	489.16	489.43	489.57	489.53	489.42	489.17

* For Fabrication Only



CAMBER DIAGRAM

T:\Projects\10-221\1001-10zBridges_Ten Mile Creek-Phase II\Drawings\Structural\Final Plans\SHEETS\468671-015-Steel details.dgn



USER NAME = WAH
FILE NAME = D468671-015-Steel details.dgn
PLOT DATE = 10/5/2012

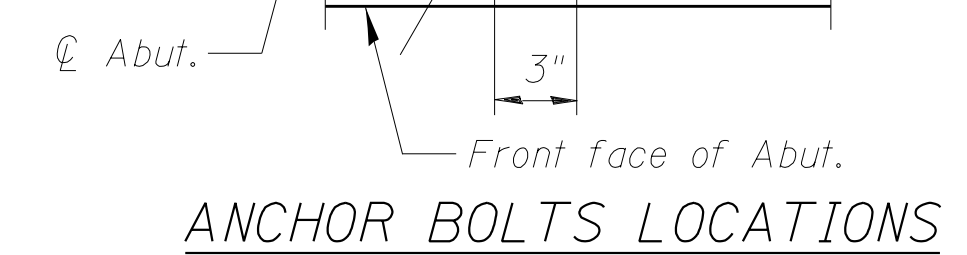
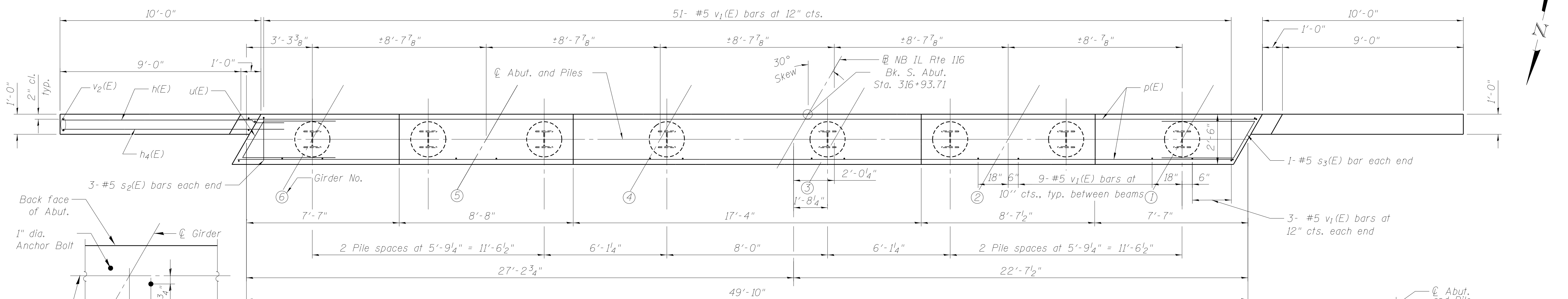
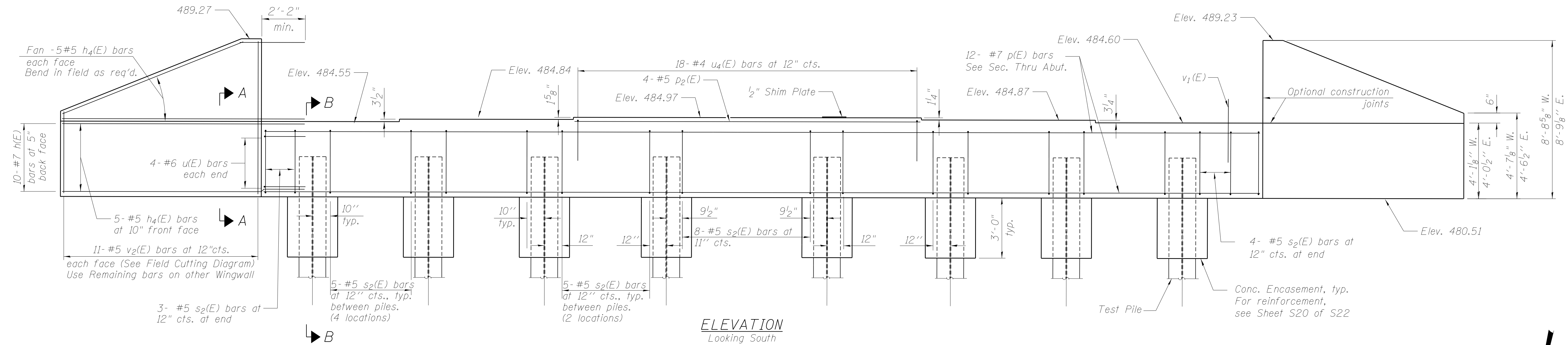
DESIGNED - OY
CHECKED - DB
DRAWN - CM
CHECKED - JB
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL DETAILS
STRUCTURE NO. 090-0179

SHEET NO. S15 OF S22 SHEETS

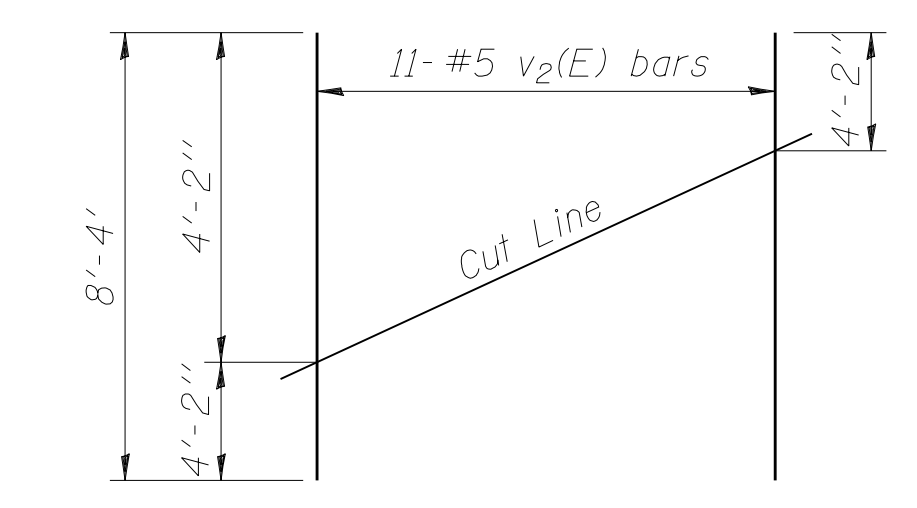
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1) BR	TAZEWELL	89	58
ILLINOIS FED. AID PROJECT				CONTRACT NO. 68671



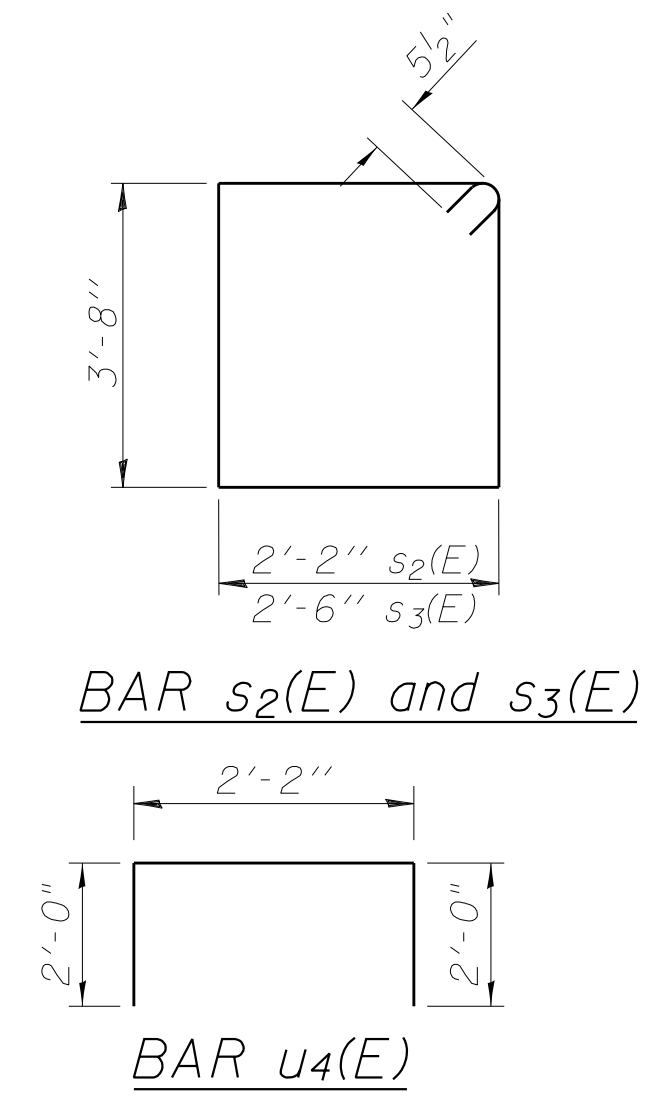
PILE DATA

Type: Steel HP 14x117
 Nominal Required Bearing: 929 Kips
 Factored Resistance Available: 465 Kips
 Est. Length: 92'
 No. Production Piles: 7
 No. Test Piles: 1

Notes:
 Four steps monolithically with cap.
 For details of piles and Concrete Encasement, see sheet S20 of S22.



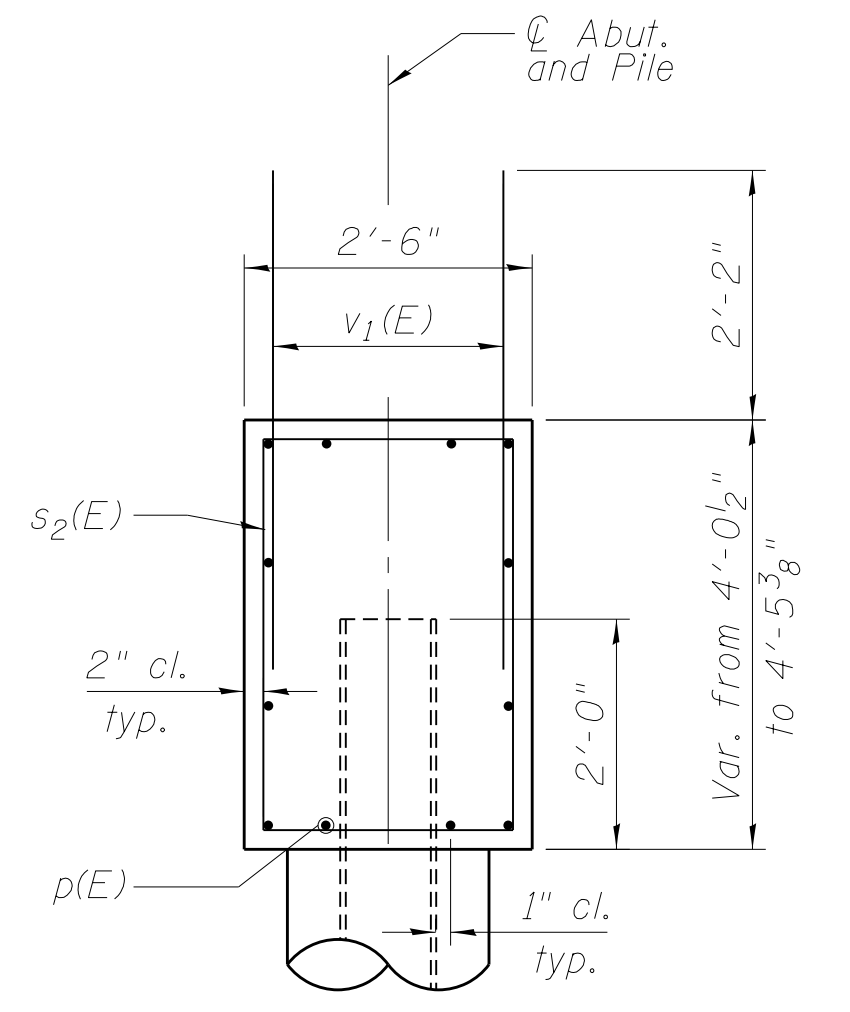
FIELD CUTTING DIAGRAM
 Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	20	#7	15'-0"	—
h4(E)	30	#5	12'-6"	—
p(E)	12	#7	49'-6"	—
p2(E)	4	#5	17'-0"	—
s2(E)	44	#5	12'-7"	□
s3(E)	2	#5	13'-3"	□
u(E)	8	#6	10'-8"	—
u4(E)	18	#4	6'-2"	—
v1(E)	102	#5	4'-4"	—
v2(E)	22	#5	8'-4"	—
Structure Excavation		Cu. Yd.	174	
Concrete Structures		Cu. Yd.	24.8	
Concrete Encasement		Cu. Yd.	4.4	
Reinforcement Bars, Epoxy Coated		Pound	3750	
Furnishing Steel Piles, HP 14x117		Foot	644	
Driving Piles		Foot	644	
Test Pile Steel HP 14x117		Each	1	



SECTION B-B
SECTION THRU ABUTMENT

M:\JL RT 116 OVER TEN MILE CREEK\CIVIL\AS\Structural\Final Plans\SHEET S16-South-Abutment.dgn

TERRA ENGINEERING LTD.

USER NAME = cvm
 FILE NAME = D468671-016-South-Abutment.dgn
 PLOT DATE = 10/4/2012

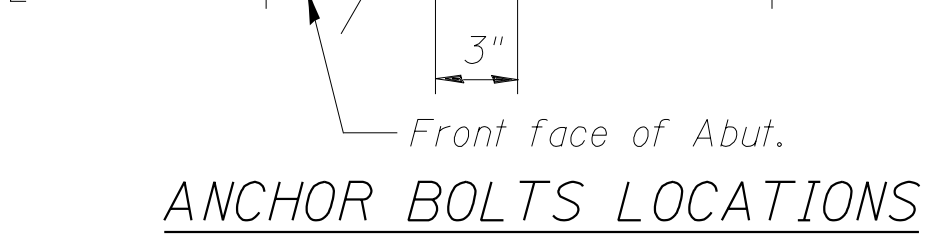
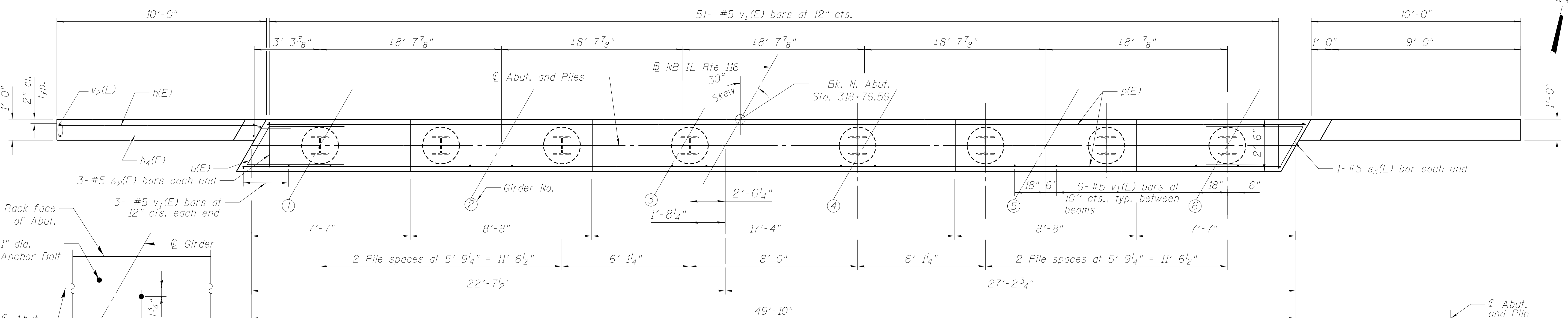
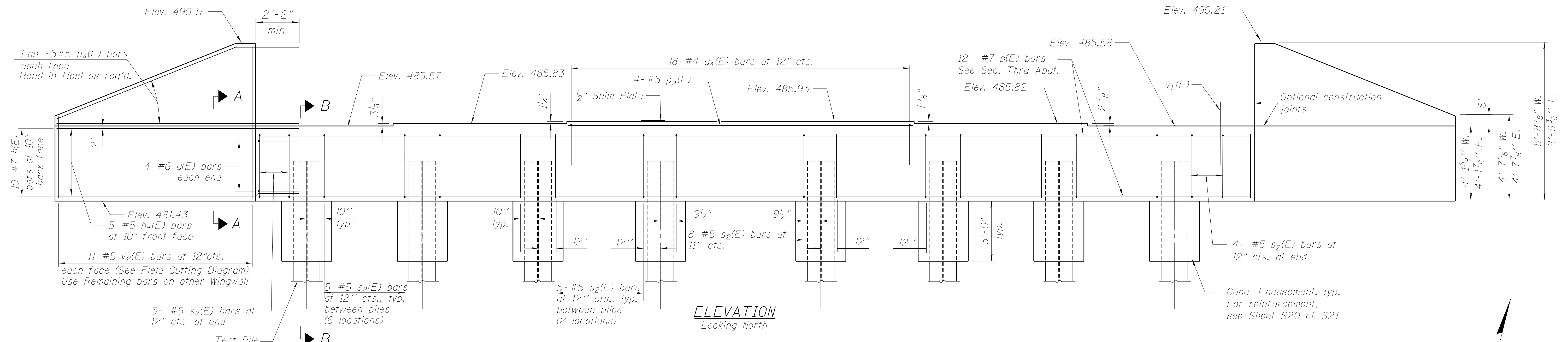
DESIGNED - OY	REVISED -
CHECKED - DB	REVISED -
DRAWN - CM	REVISED -
CHECKED - JB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT PLAN AND ELEVATION
STRUCTURE NO. 090-0179

SHEET NO. S16 OF S22 SHEETS

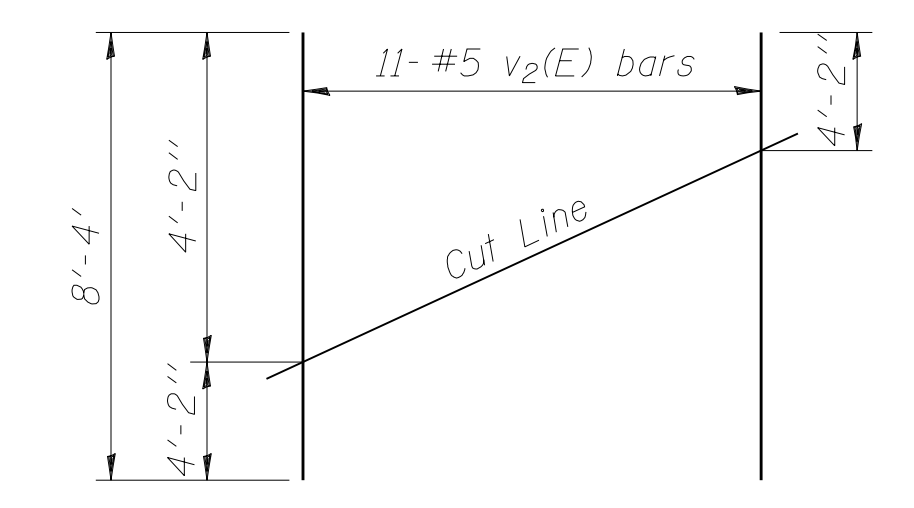
F.A.P. RTE. 673	SECTION (102B-1) BR	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 59
CONTRACT NO. 68671			ILLINOIS FED. AID PROJECT	



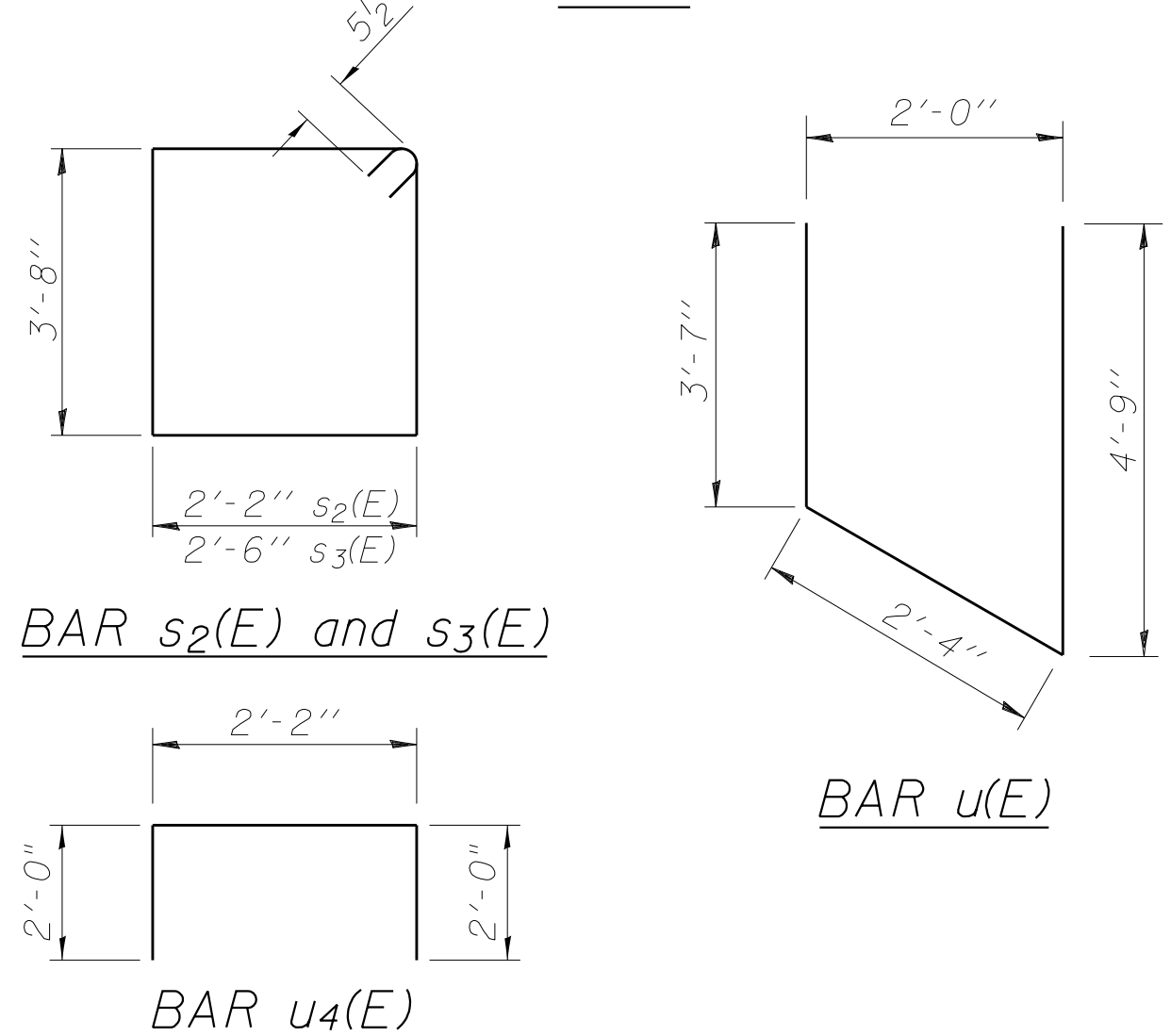
PILE DATA

Type:	Steel HP 14x117
Nominal Required Bearing:	929 Kips
Factored Resistance Available:	465 Kips
Est. Length:	95'
No. Production Piles:	7
No. Test Piles:	1

Notes:
 Pour steps monolithically with cap.
 For details of piles and Concrete Encasement, see sheet S20 of S22.

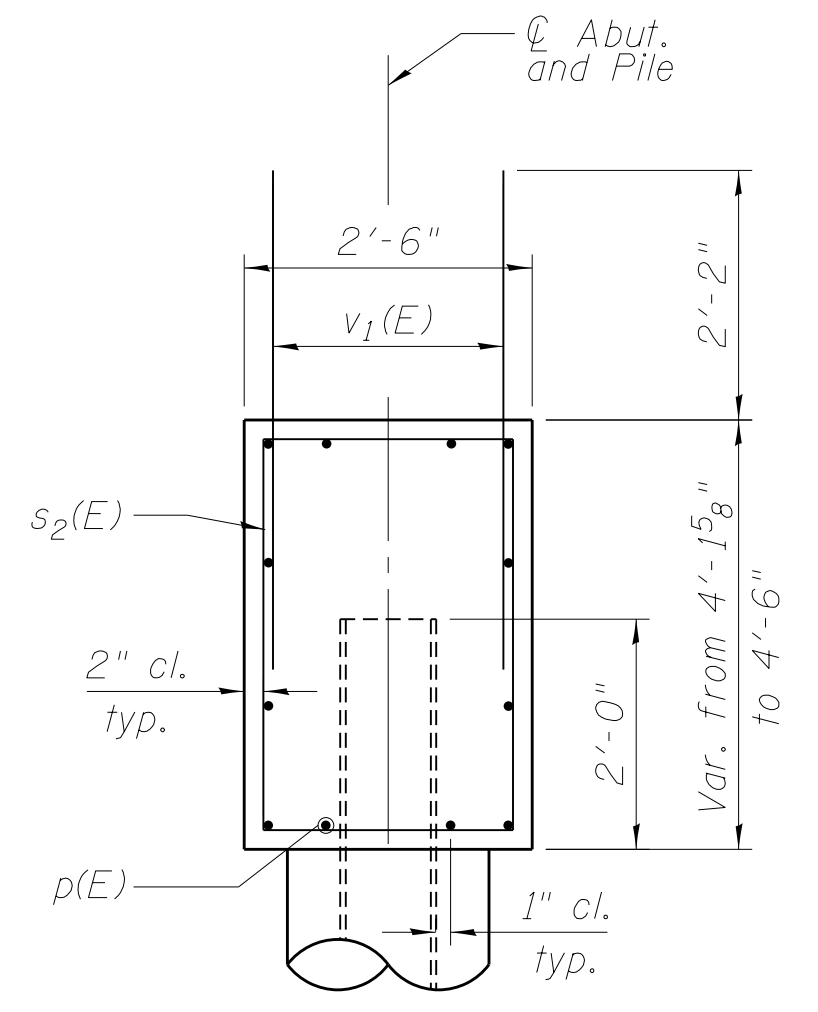


FIELD CUTTING DIAGRAM
 Order v₂(E) full length. Cut as shown and use remainder of bars in opposite face.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	20	#7	15'-0"	—
h ₄ (E)	30	#5	12'-6"	—
p(E)	12	#7	49'-6"	—
p ₂ (E)	4	#5	17'-0"	—
s ₂ (E)	44	#5	12'-7"	□
s ₃ (E)	2	#5	13'-3"	□
u(E)	8	#6	10'-8"	▤
u ₄ (E)	18	#4	6'-2"	—
v ₁ (E)	102	#5	4'-4"	—
v ₂ (E)	22	#5	8'-4"	—
Structure Excavation		Cu. Yd.	175	
Concrete Structures		Cu. Yd.	25.0	
Concrete Encasement		Cu. Yd.	4.4	
Reinforcement Bars, Epoxy Coated		Pound	3750	
Furnishing Steel Piles, HP 14x117		Foot	665	
Driving Piles		Foot	665	
Test Pile Steel HP 14x117		Each	1	



SECTION B-B
SECTION THRU ABUTMENT

M:\JL RT 116 OVER TEN MILE CREEK\CIVIL\AS\Structural\Final Plans\SHEET S17-Nor th-Abutment.dgn

TERRA ENGINEERING LTD.

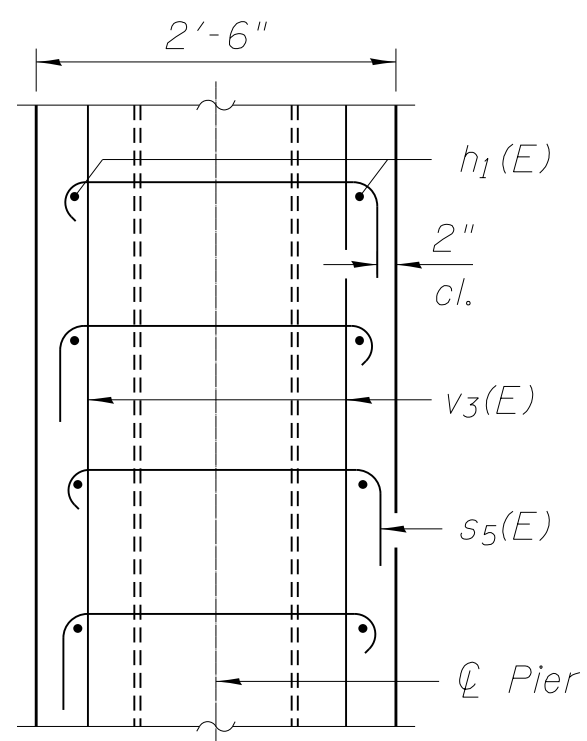
USER NAME = cvm	DESIGNED - OY	REVISED -
FILE NAME = D468671-017-Nor th-Abutment.dgn	CHECKED - DB	REVISED -
PLOT DATE = 10/4/2012	DRAWN - CM	REVISED -
	CHECKED - JB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT PLAN AND ELEVATION
STRUCTURE NO. 090-0179

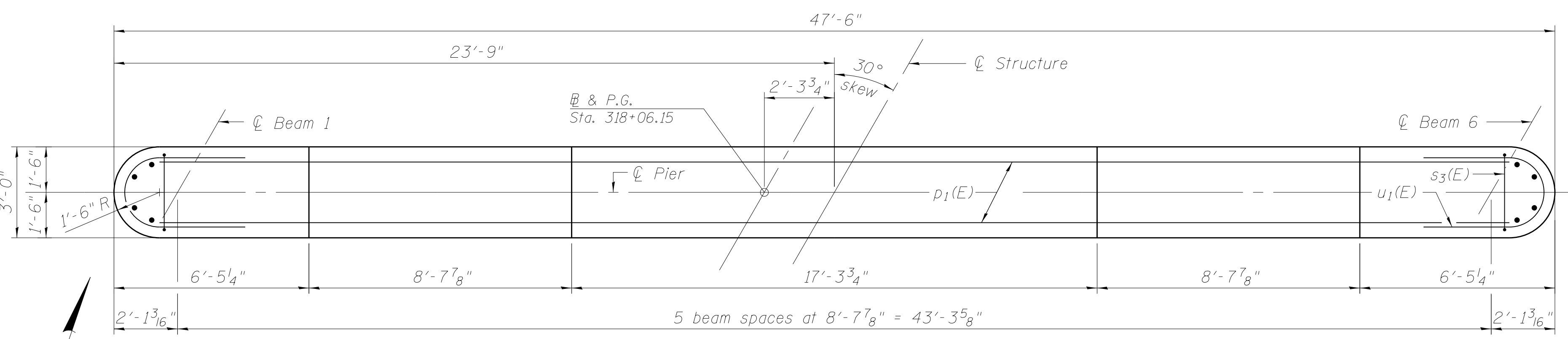
SHEET NO. S17 OF S22 SHEETS

F.A.P. RTE. 673	SECTION (102B-1) BR	COUNTY TAZEWELL	TOTAL SHEETS 89	SHEET NO. 60
CONTRACT NO. 68671			ILLINOIS FED. AID PROJECT	

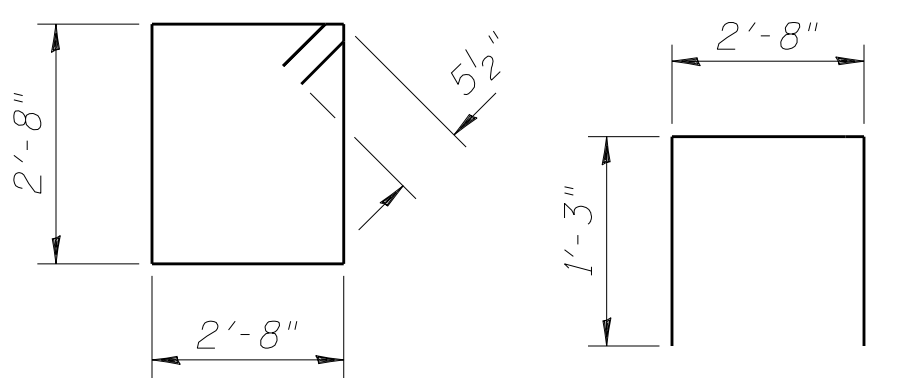


**SECTION THRU WALL
AT PILE LOCATION**

Alternate placement of 90° hooked end of s5(E) tie bars between vertical layers of tie bars.

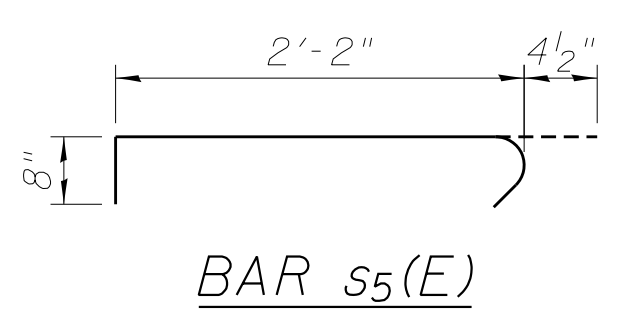


TOP PLAN

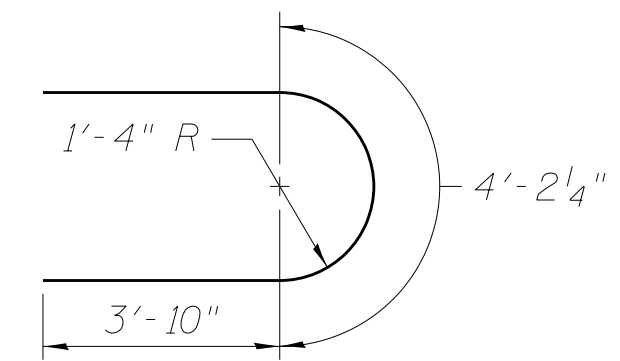


BAR s3(E)

BAR s4(E)

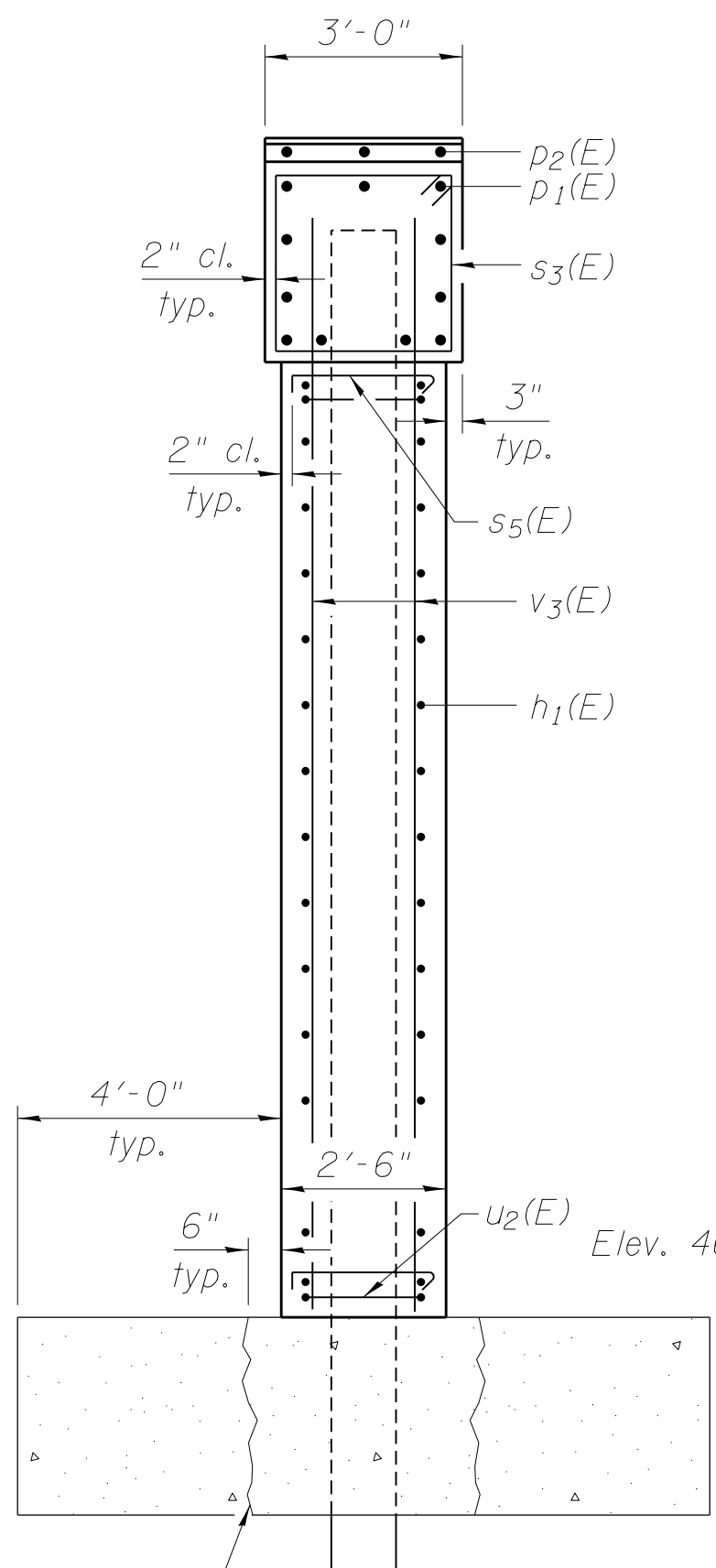


BAR s5(E)



BAR u1(E)

BAR u2(E)

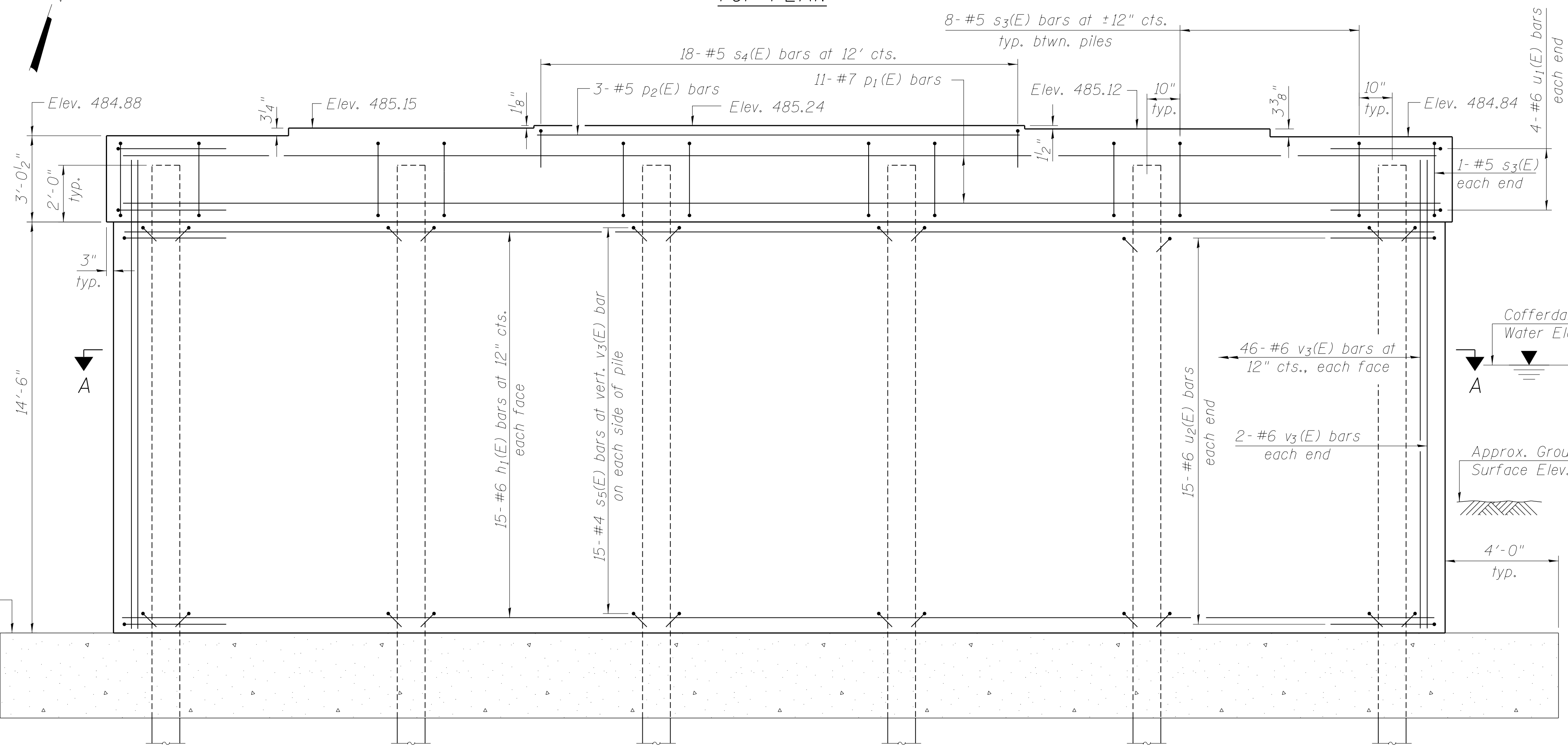


END VIEW

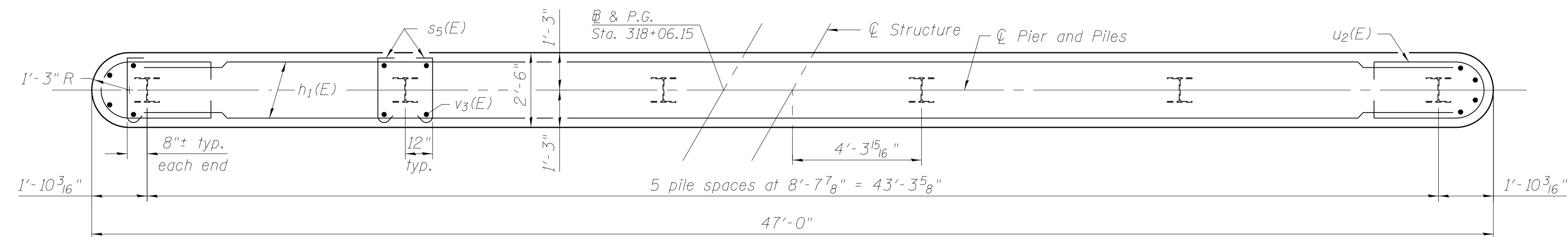
Contractor shall fracture seal coat (full depth) approximately 6" from each side of stem wall prior to backfilling. Care shall be taken to avoid damage to new construction. Cost included with Cofferdam (Type 2).

PILE DATA

Type: HP 14x117
 Nominal Required Bearing: 929 k
 Factored Resistance Available: 511 k
 Est. Length: 93'
 No. Production Piles: 5
 No. Test Piles: 1



**ELEVATION
(Looking North)**



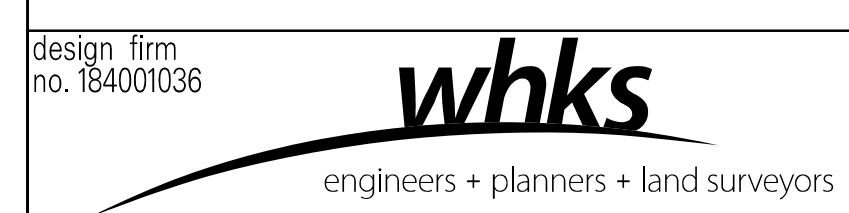
SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	30	#6	44'-6"	—
p1(E)	11	#7	44'-6"	—
p2(E)	3	#5	17'-0"	—
s3(E)	42	#5	11'-7"	□
s4(E)	18	#5	5'-2"	□
s5(E)	180	#4	3'-3"	L
u1(E)	8	#6	11'-11"	U
u2(E)	30	#6	12'-9"	U
v3(E)	96	#6	16'-6"	—
Cofferdam Excavation		Cu. Yd.	164	
Cofferdam (Type 2)		Each	1	
<i>(Location 1)</i>				
Concrete Structures		Cu. Yd.	79.3	
Seal Coat Concrete		Cu. Yd.	64.2	
Reinforcement Bars, Epoxy Coated		Pound	7,160	
Furnishing Steel Piles HP 14x117		Foot	465	
Driving Piles		Foot	465	
Test Pile Steel HP 14x117		Each	1	

Notes:

Pour steps monolithically with cap.
 For pile details, see sheet S20 of S22.
 Space reinforcement in cap to miss anchor bolts. See sheet S14 of S22 for anchor bolt details.
 Seal coat thickness design is based on the Cofferdam Design Water Elevation (CDWE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.



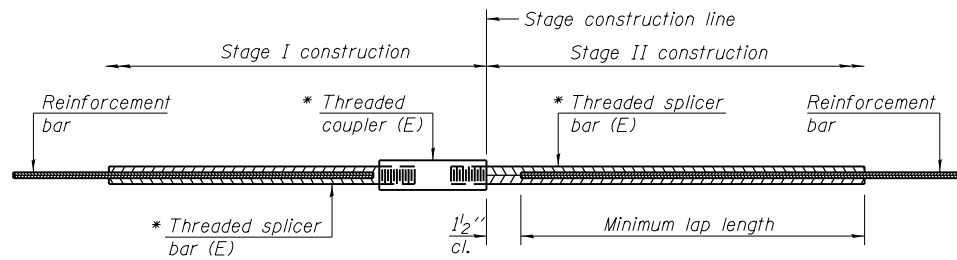
USER NAME = *OPERATOR*	DESIGNED - RJN	REVISED
FILE NAME = 090-0179-0468671.dgn	CHECKED - CWC	REVISED
PLOT SCALE = 0:1' = 1/4"	DRAWN - DLH	REVISED
PLOT DATE = 4/30/2013	CHECKED - CWC	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER
STRUCTURE NO. 090-0179**

SHEET NO. S18 OF S22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	61
CONTRACT NO. 68671				
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY

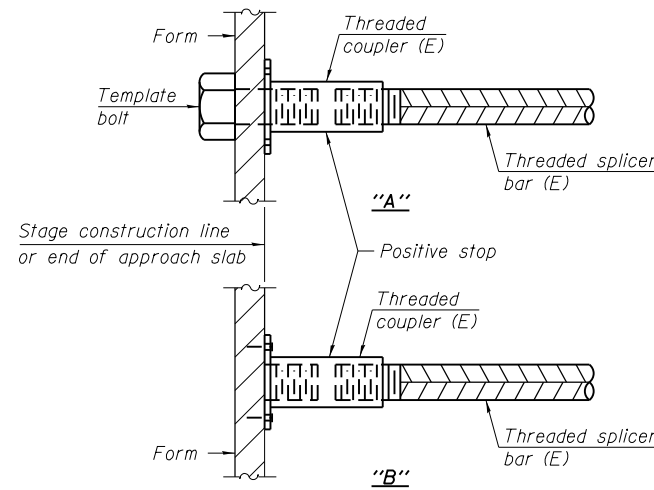
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

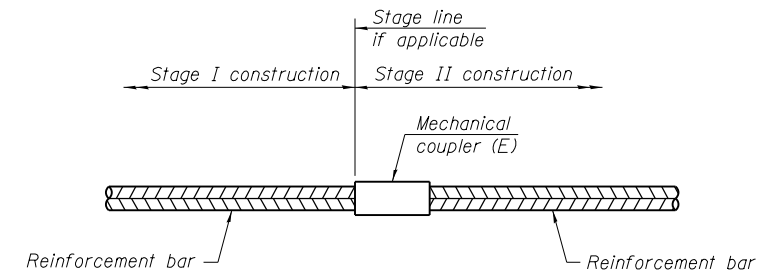
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



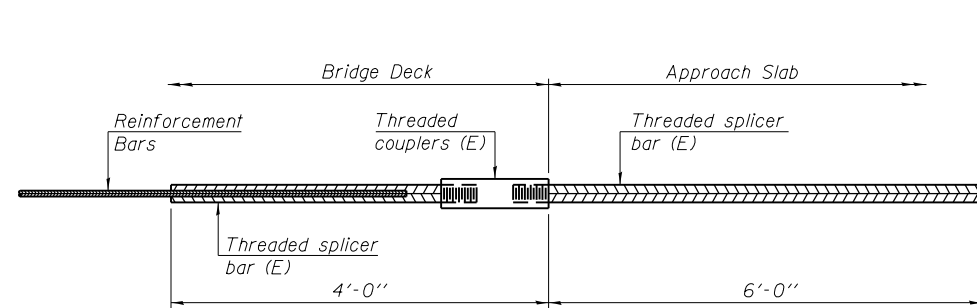
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



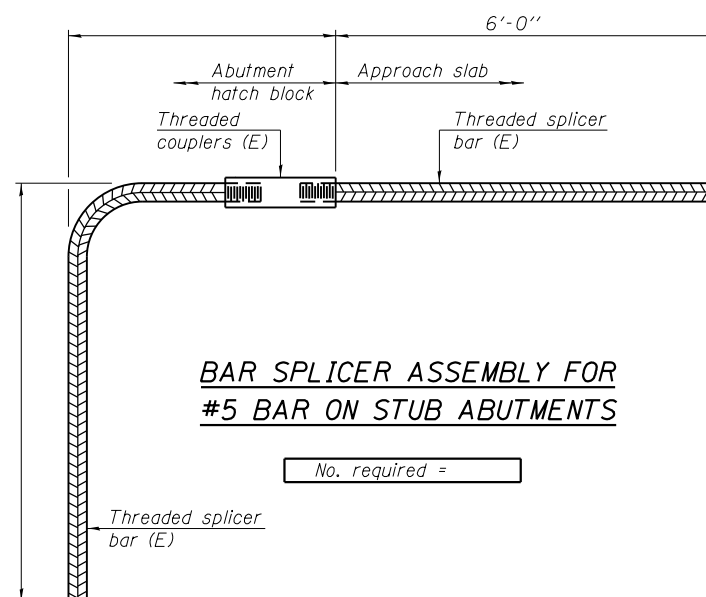
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 94



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-27-12



USER NAME = WAH
 FILE NAME = D468671-019-barsplicer.dgn
 PLOT DATE = 10/5/2012

DESIGNED - OY
 CHECKED - DB
 DRAWN - CM
 CHECKED - JB

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

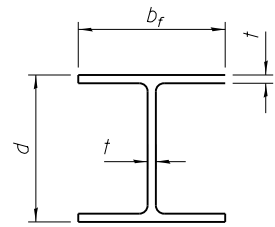
BAR SPLICER ASSEMBLY
 STRUCTURE NO. 090-0179

SHEET NO. S19 OF S22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1) BR	TAZEWELL	89	62
CONTRACT NO. 68671				

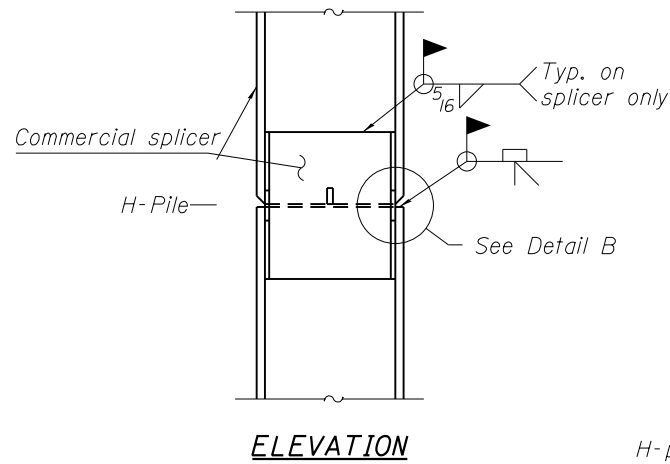
ILLINOIS FED. AID PROJECT

T:\Projects\10-221\1001-10zBridges_Ten Mile Creek-Phase II\Drawings\Structural\Final Plans\SHEETS\0468671-019-barsplicer.dgn

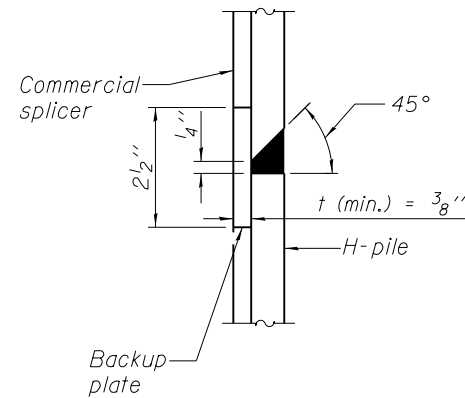


STEEL PILE TABLE

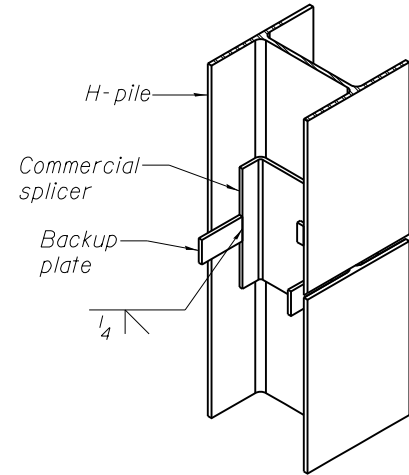
Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



ELEVATION

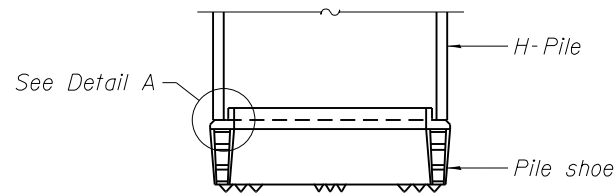


DETAIL "B"

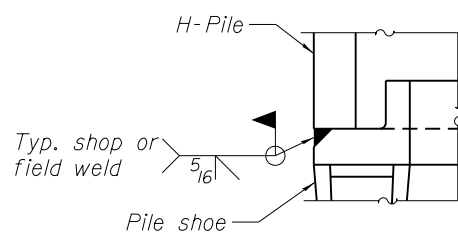


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

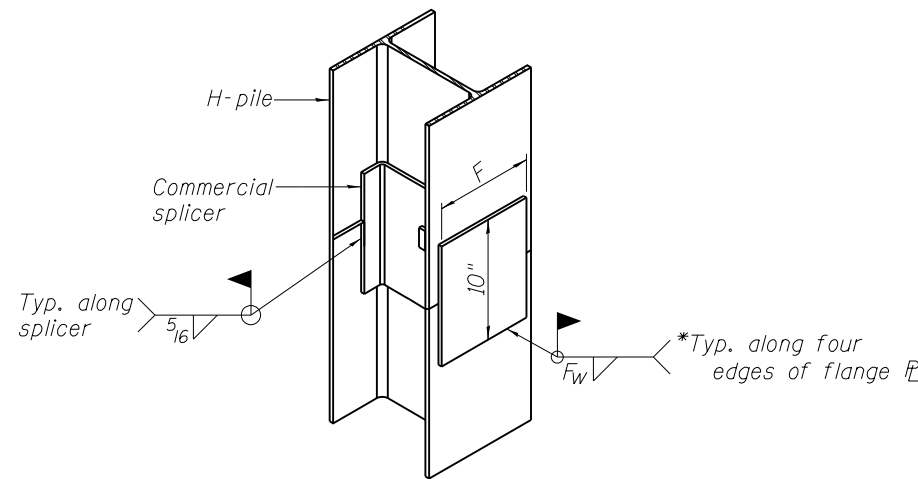


ELEVATION



DETAIL A

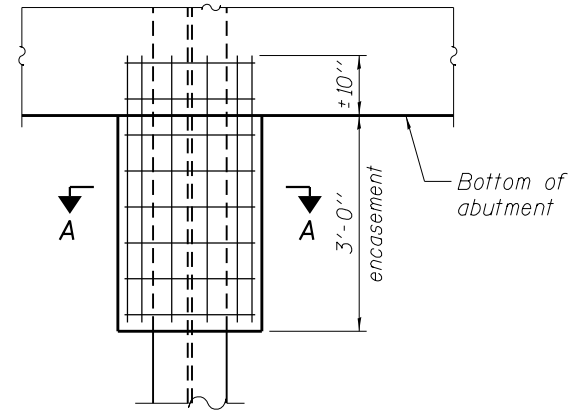
H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

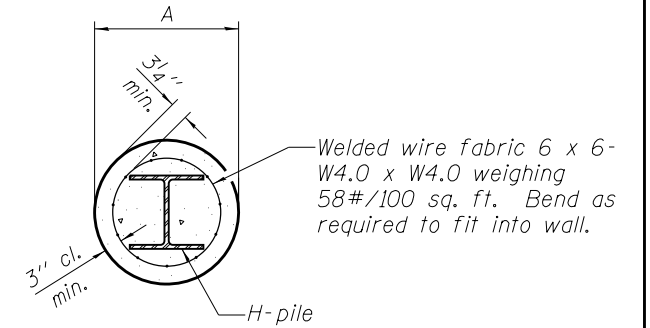
WELD COMMERCIAL SPLICE ALTERNATE

- * 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.).



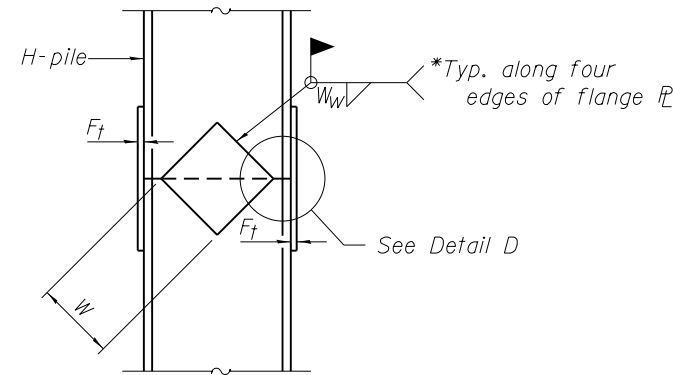
ELEVATION

PILE ENCASEMENT

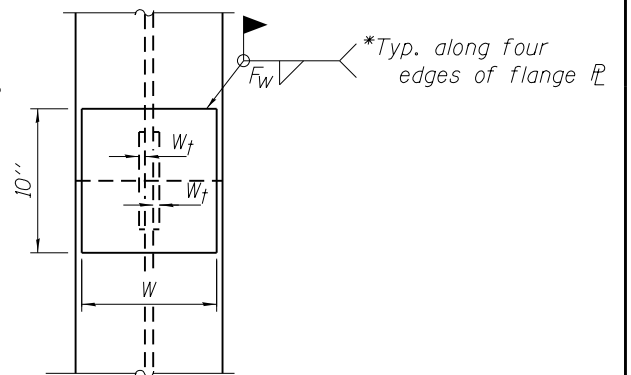


SECTION A-A

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



ELEVATION



END VIEW

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 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 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 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"

WELDED PLATE FIELD SPLICE

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

F-HP

1-27-12



USER NAME = WAH
FILE NAME = D468671-020-Pile.dgn
PLOT DATE = 10/5/2012

DESIGNED - OY
CHECKED - DB
DRAWN - CM
CHECKED - JB
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE DETAILS
STRUCTURE NO. 090-0179

SHEET NO. S20 OF S22 SHEETS

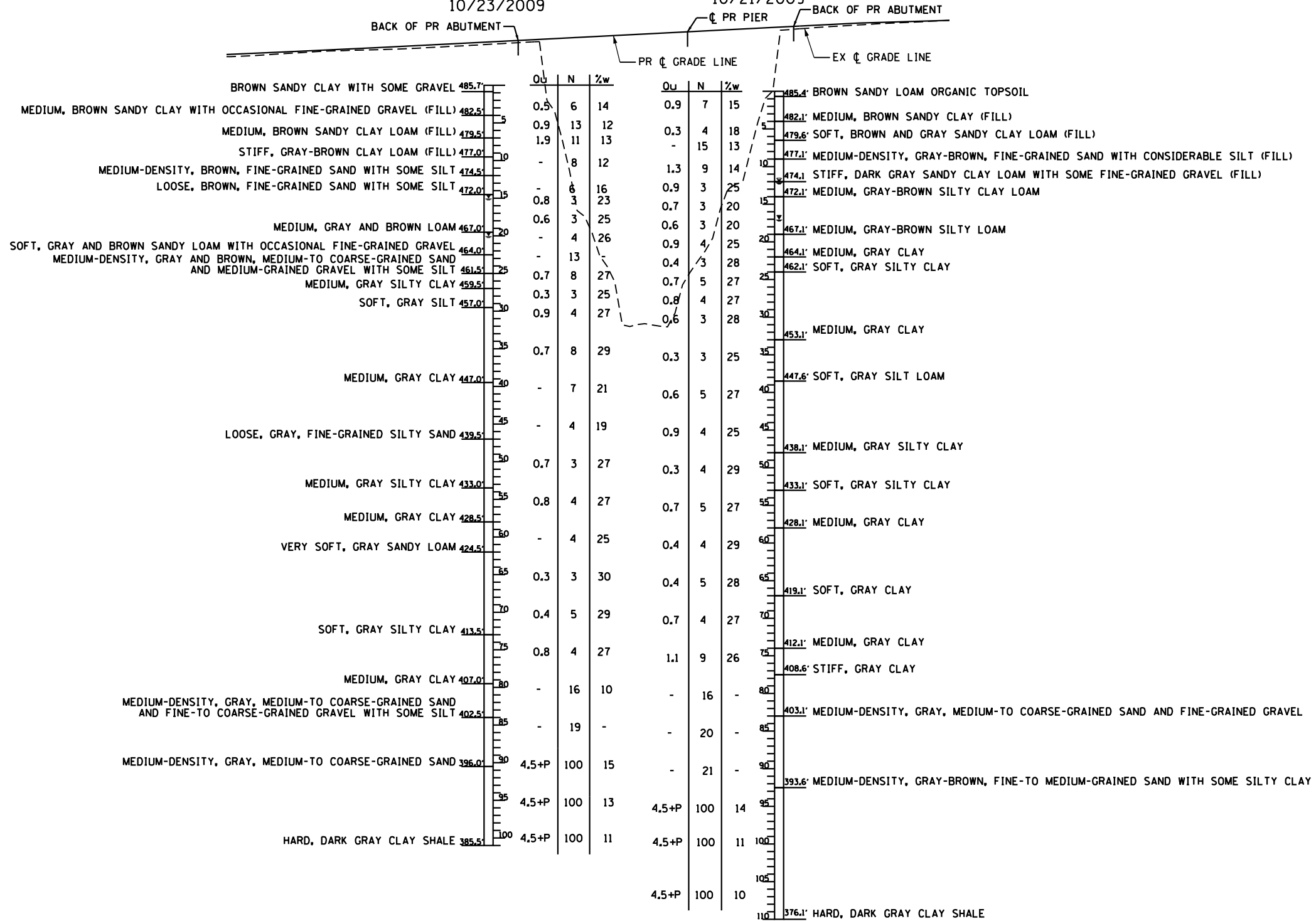
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1) BR	TAZEWELL	89	63
CONTRACT NO. 68671				

ILLINOIS FED. AID PROJECT

T:\Projects\10-221\1001-TazBridges-Ten Mile Creek-Phase II\Drawings\Structural\Final Plans\SHEETS\D468671-020-Pile.dgn

BORING 1
 STA 316+74
 28.0' RIGHT
 ELEV 486.5'
 10/23/2009

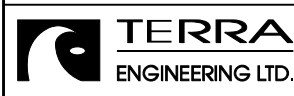
BORING 3
 STA 318+67
 30.0' LEFT
 ELEV 486.1'
 10/21/2009



LEGEND
 EL = ELEVATION (FT)
 D = DEPTH BELOW EXISTING GROUND SURFACE (FT)
 N = SPT N-VALUE (AASHTO T206)
 Ou = UNCONFINED COMPRESSIVE STRENGTH IN TONS PER SQ. FT. (TSF)
 %w = MOISTURE CONTENT PERCENTAGE
 ▾ = GROUNDWATER LEVEL FIRST ENCOUNTER
 ▽ = GROUNDWATER LEVEL UPON COMPLETION
 ▿ = GROUNDWATER LEVEL AFTER 24 HOURS

NOT TO SCALE

T:\Projects\10-221\1001-102B-Edges_Ten Mile Creek-Phase II\Drawings\Structural\Final Plans\SHEETS\468671-021-Soil Borings.dgn



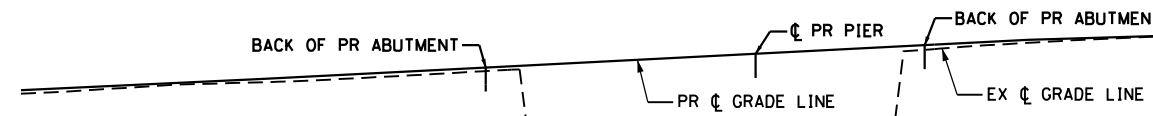
USER NAME = WAH
 FILE NAME = D468671-021-Soil Borings.dgn
 PLOT DATE = 10/5/2012

DESIGNED - OY
 CHECKED - DB
 DRAWN - CM
 CHECKED - JB
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
 STRUCTURE NO. 090-0179
 SHEET NO. S21 OF S22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1) BR	TAZEWELL	89	64
CONTRACT NO. 68671			ILLINOIS FED. AID PROJECT	



BORING 2
 STA 318+22
 23.0' RIGHT
 ELEV 473.5'
 10/20/2009

Soil Description	EL (FT)	Qu	N	%w
BROWN SANDY LOAM ORGANIC TOPSOIL	473.1'	-	4	7
LOOSE, BROWN, FINE-TO COARSE-GRAINED SAND WITH SOME FINE-GRAINED GRAVEL AND SILTY CLAY	469.5'	-	9	10
LOOSE, BROWN, FINE-TO COARSE-GRAINED SAND AND FINE-GRAINED GRAVEL (CLEAN)	467.0'	-	10	-
LOOSE, GRAY-BROWN, FINE-TO COARSE-GRAINED SAND AND FINE-GRAINED GRAVEL WITH SOME SILTY CLAY	464.5'	0.7	9	27
MEDIUM, GRAY SILTY CLAY	461.5'	0.6	4	29
MEDIUM, GRAY CLAY	456.5'	0.6	4	29
MEDIUM, GRAY SILTY CLAY	454.5'	0.7	3	26
MEDIUM, GRAY SILTY CLAY LOAM	451.5'	0.6	3	25
MEDIUM, GRAY SILTY CLAY	444.0'	0.7	4	26
MEDIUM, GRAY SILTY CLAY LOAM	441.5'	0.7	4	26
MEDIUM, GRAY SILTY CLAY	429.5'	0.5	5	27
MEDIUM, GRAY CLAY	426.0'	0.8	6	23
SOFT, GRAY CLAY	421.5'	0.6	5	26
MEDIUM, GRAY CLAY	409.0'	0.9	7	26
MEDIUM-DENSITY, GRAY, MEDIUM-TO COARSE-GRAINED SAND AND FINE-GRAINED GRAVEL (CLEAN)	400.5'	-	18	10
MEDIUM-DENSITY, BROWN, FINE-TO MEDIUM-GRAINED SAND WITH SOME FINE-GRAINED GRAVEL AND SILTY CLAY	396.0'	-	29	11
		-	28	13
		4.5+P	100	15
		4.5+P	100	13
HARD, DARK GRAY CLAY SHALE	382.5'	4.5+P	100	12

LEGEND
 EL = ELEVATION (FT)
 D = DEPTH BELOW EXISTING GROUND SURFACE (FT)
 N = SPT N-VALUE (AASHTO T206)
 Qu = UNCONFINED COMPRESSIVE STRENGTH IN TONS PER SQ. FT. (TSF)
 w% = MOISTURE CONTENT PERCENTAGE
 ↕ = GROUNDWATER LEVEL FIRST ENCOUNTER
 ⚡ = GROUNDWATER LEVEL UPON COMPLETION
 ⚡ = GROUNDWATER LEVEL AFTER 24 HOURS

NOT TO SCALE

T:\Projects\10-221\1001-1\2012\Drawings\Structural\Final Plans\SHEETS\0468671-022-Soil Borings.dgn



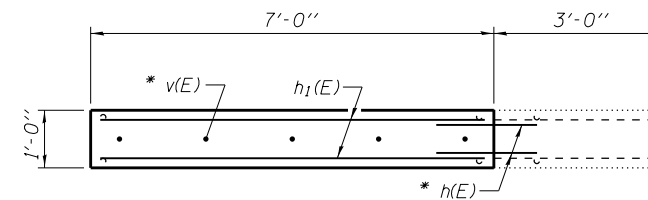
USER NAME = WAH	DESIGNED - OY	REVISED -
FILE NAME = D468671-022-Soil Borings.dgn	CHECKED - DB	REVISED -
PLOT DATE = 10/5/2012	DRAWN - CM	REVISED -
	CHECKED - JB	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

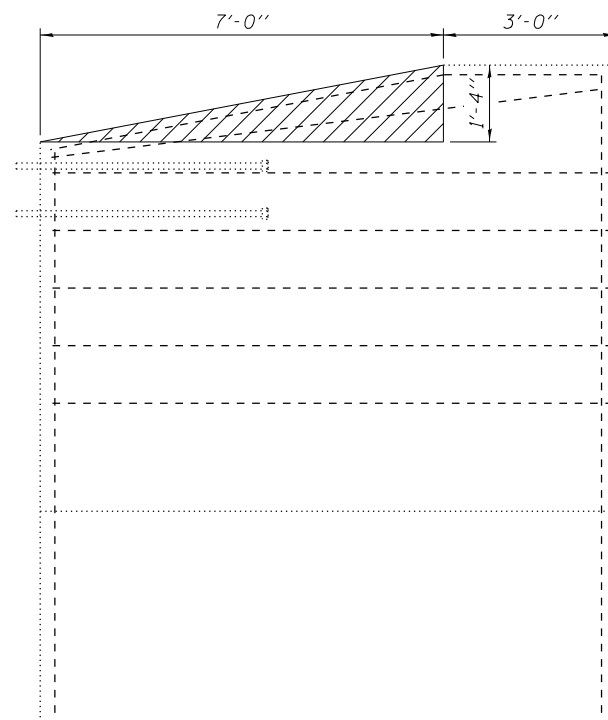
**SOIL BORING LOGS
 STRUCTURE NO. 090-0179**

SHEET NO. S22 OF S22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1) BR	TAZEWELL	89	65
				CONTRACT NO. 68671
ILLINOIS FED. AID PROJECT				

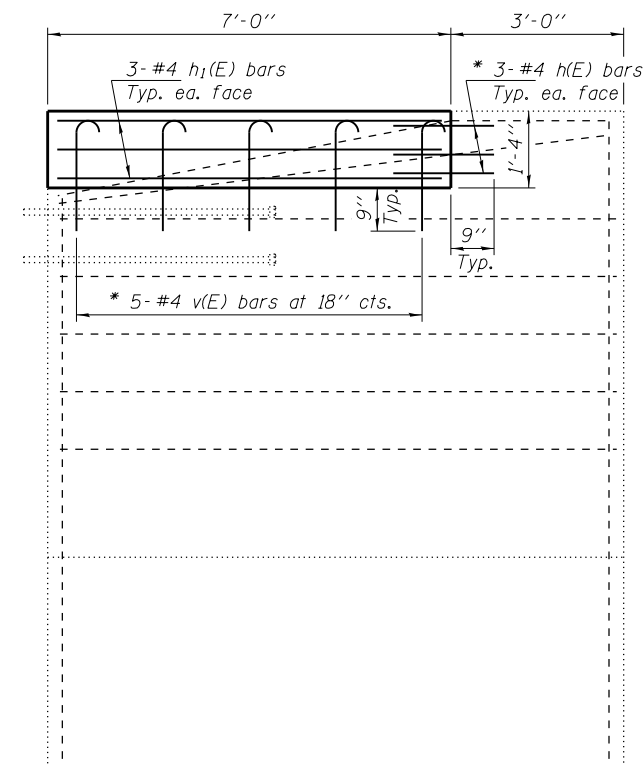


SECTION



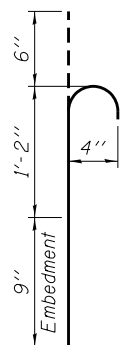
EXISTING ELEVATION

Hatched area indicates
Concrete Removal.



PROPOSED ELEVATION

* Epoxy grout h(E) & v(E) bars in 9" min.
holes according to Article 584 of the
Standard Specifications.



BAR v(E)

NOTES

Reinforcement bars designated (E) shall be epoxy coated.
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	24	#4	1'-9"	—
h1(E)	24	#4	6'-8"	—
v(E)	20	#4	2'-5"	⌋
Concrete Removal			Cu. Yd.	0.8
Concrete Structures			Cu. Yd.	1.6
Reinforcement Bars, Epoxy Coated			Pound	160

DESIGNED -	EXAMINED	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN -	PASSED	REVISED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

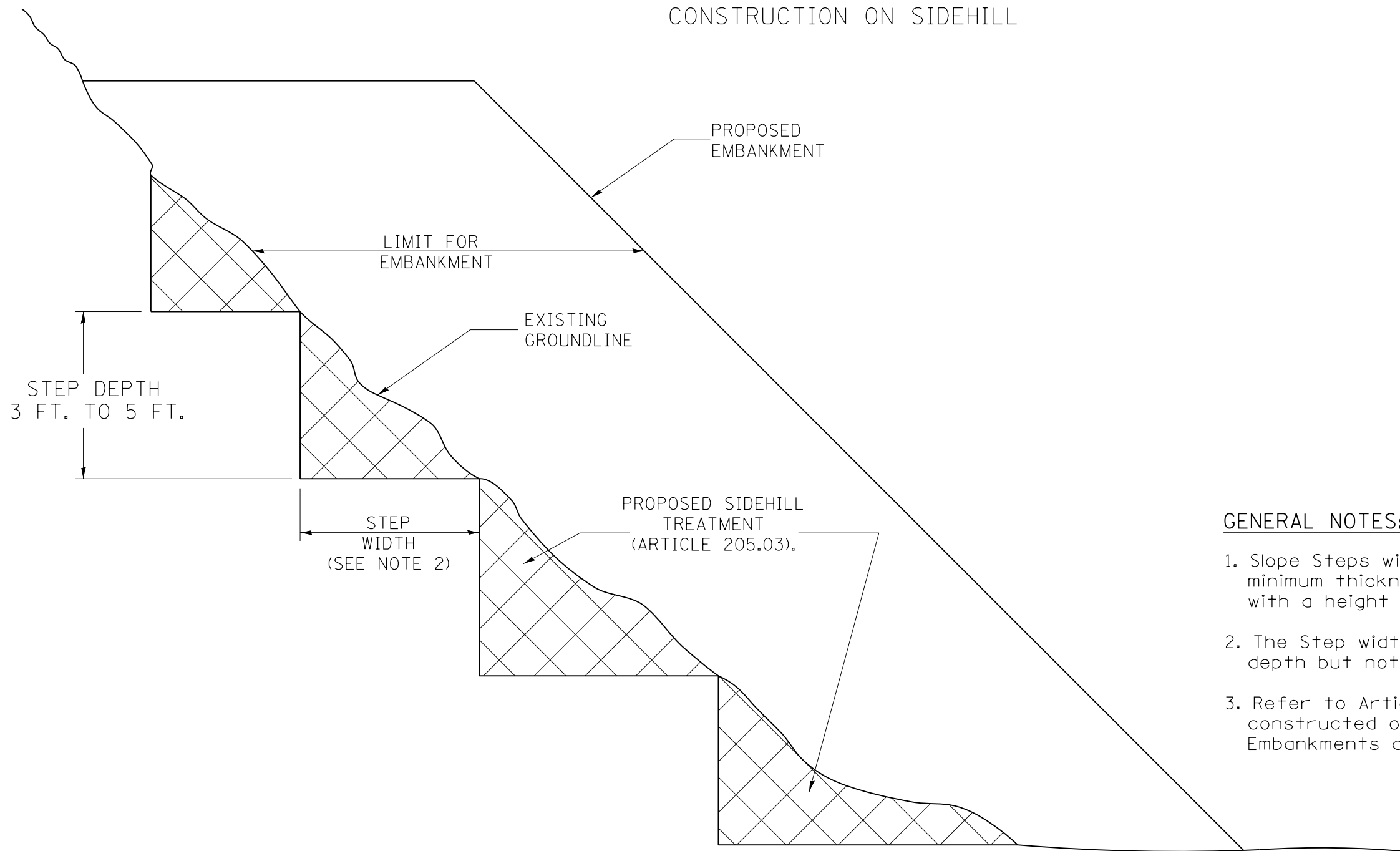
**WINGWALL MODIFICATION
SN 090-0110**

SHEET NO. OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	66
CONTRACT NO. 68671				
ILLINOIS FED. AID PROJECT				

SLOPE STEPS DETAIL

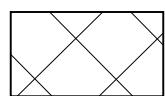
TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "silver fills" and on a fills with a height of 10'(3.0m).
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

REPLACEMENT MATERIAL:



STANDARD EMBANKMENT
(IN ACCORDANCE WITH
205 OF THE STANDARD SPECIFICATION).

DESIGNER NOTE:

1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.
2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

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

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES.	T.P.
10-16-06	REVISED TO 2007 SPEC.	M.A.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SLOPE STEPS DETAIL

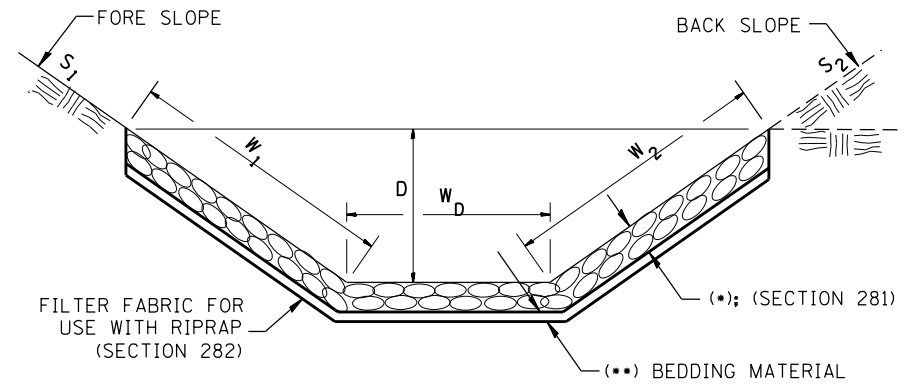
NOT TO SCALE

CADD STD. 205001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	67
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68671	

Designer NOTES:
 1. Designer to modify this Special Detail Sheet, as needed for inclusion in plans.
 2. (*) Designer to specify pay item including material, quality, and gradation.
 3. (**) Designer to specify thickness of bedding material.
 4. Include District Special Provision if needed.

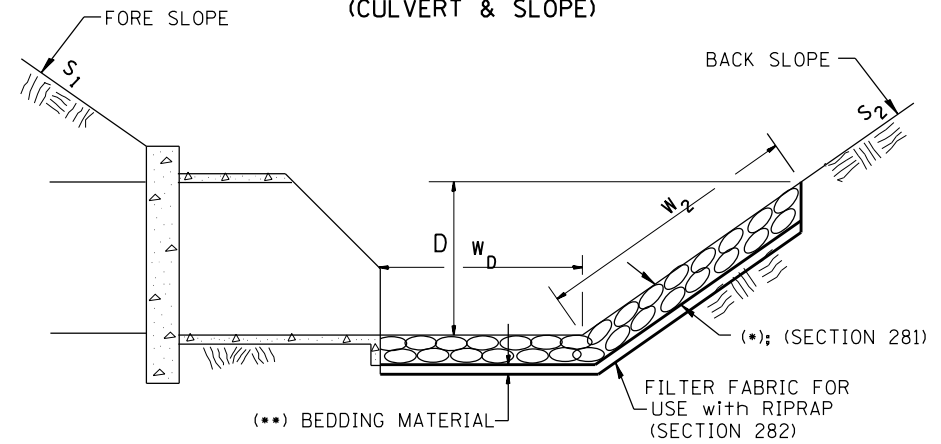
**CASE 1
(DITCH)**



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

(1) WIDTH = W₁ + W₂ + W_D

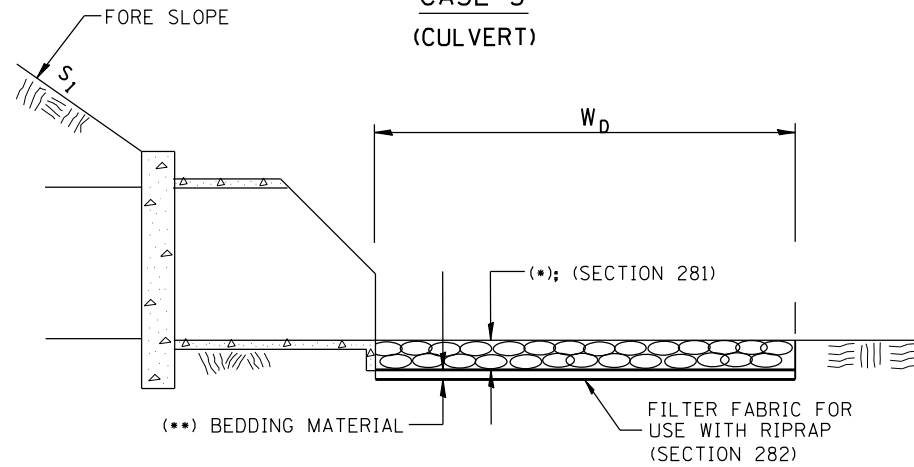
**CASE 2
(CULVERT & SLOPE)**



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

(1) WIDTH = W₂ + W_D

**CASE 3
(CULVERT)**



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

(1) WIDTH = W_D

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

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

1-1-97	RENUM. A-12.02, NEW REVISION BOX	T.P.
12-1-97	CORRECT FILTER FABRIC LEADER ARROW	J.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

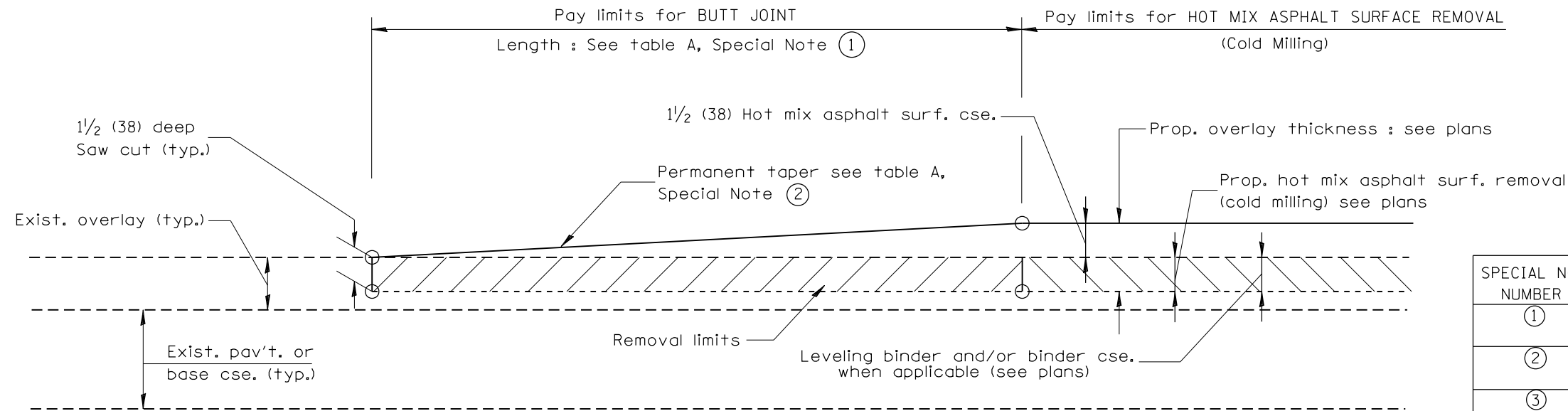
RIPRAP DITCH FOR EROSION PROTECTION

NOT TO SCALE

CADD STD. 281001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	68
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68671	

DESIGNER NOTES:
 1. Include District Special Provision for Butt Joints & for Hot Mix Asphalt Removal (Cold Milling).
 2. The butt joints pay item includes the saw cut & temporary ramp. Payment for the Butt Joint applies whether or not the project features Hot Mix Asphalt Removal (Cold Milling).



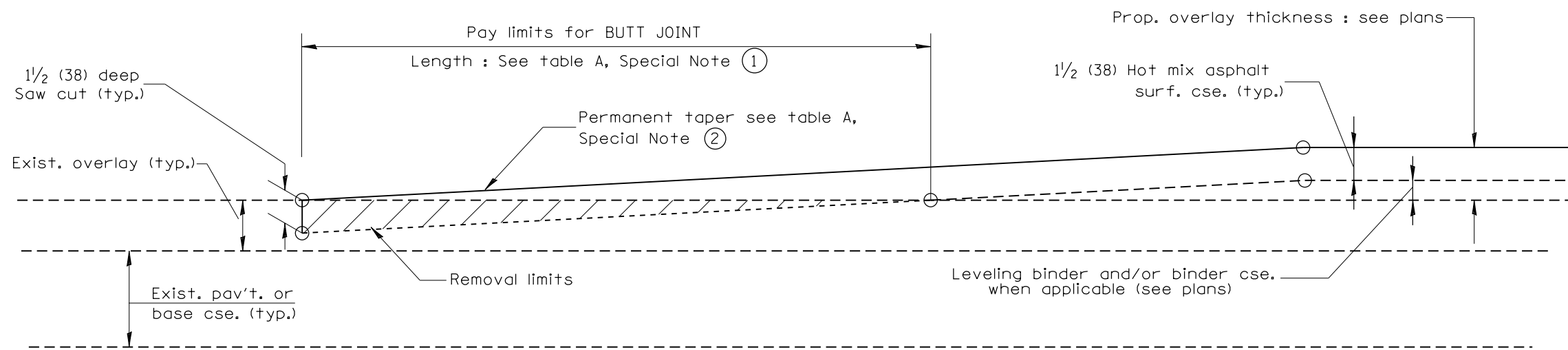
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

TABLE A
(LENGTHS AND TAPER RATES)

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	LENGTH OF BUTT JOINT	60'(18.0 m)	30'(9.0 m)
②	PERMANENT TAPER RATE	1:480	1:240
③	TEMPORARY RAMP TAPER RATE	1:80	1:40
④	TEMPORARY RAMP LENGTH	10'(3.0 m)	5'(1.5 m)
⑤	LENGTH OF BUTT JOINT	10'(3.0 m)	10'(3.0 m)

GENERAL NOTES

- The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
- The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
- The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.



CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

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

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.
04-01-97	CORRECTION TO DEPTH	J.A.
09-15-05	REVISED DESIGNER NOTE	M.M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

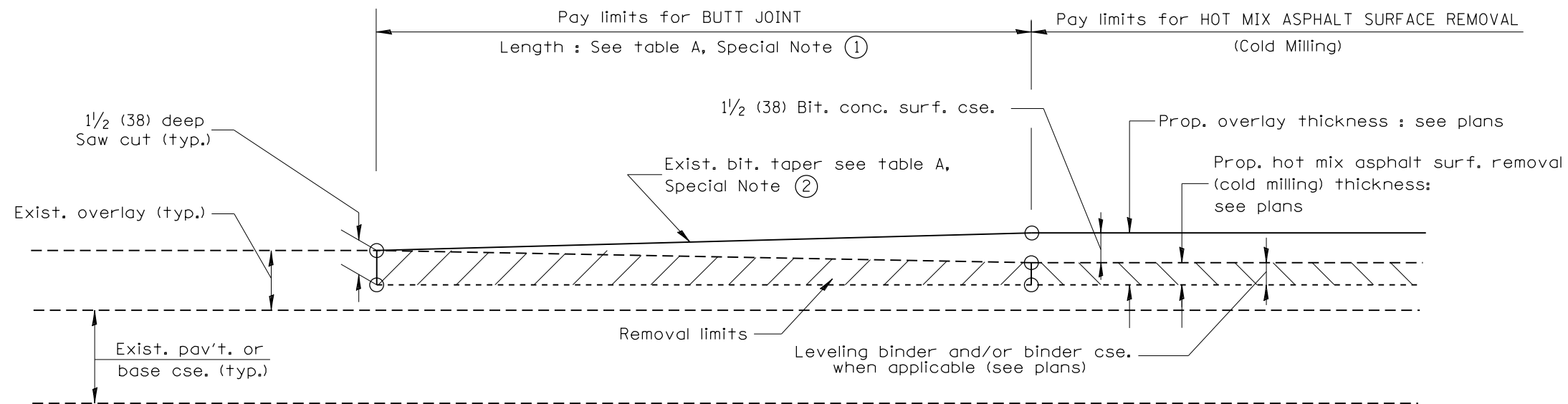
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS

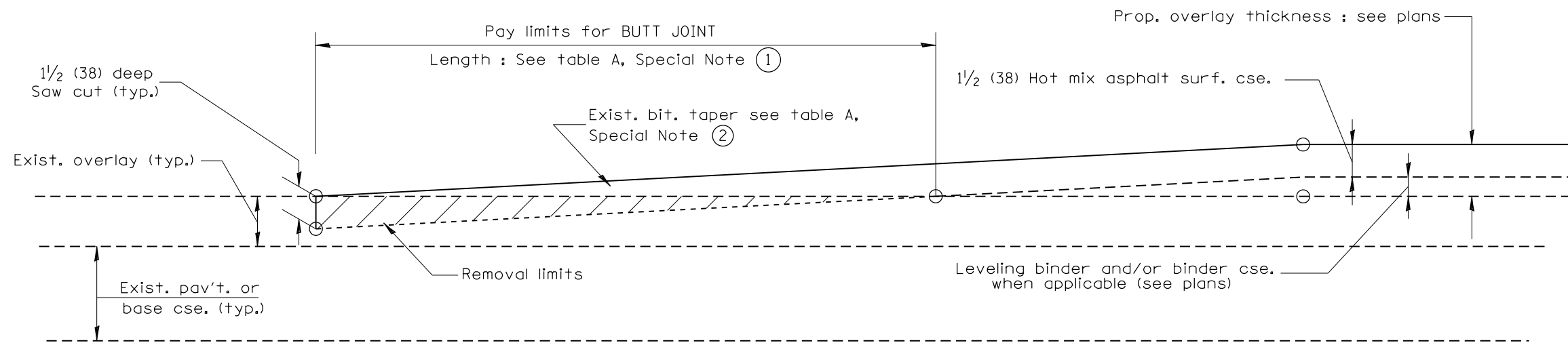
NOT TO SCALE

SHT. 1 OF 3
CADD STD. 406101-D4

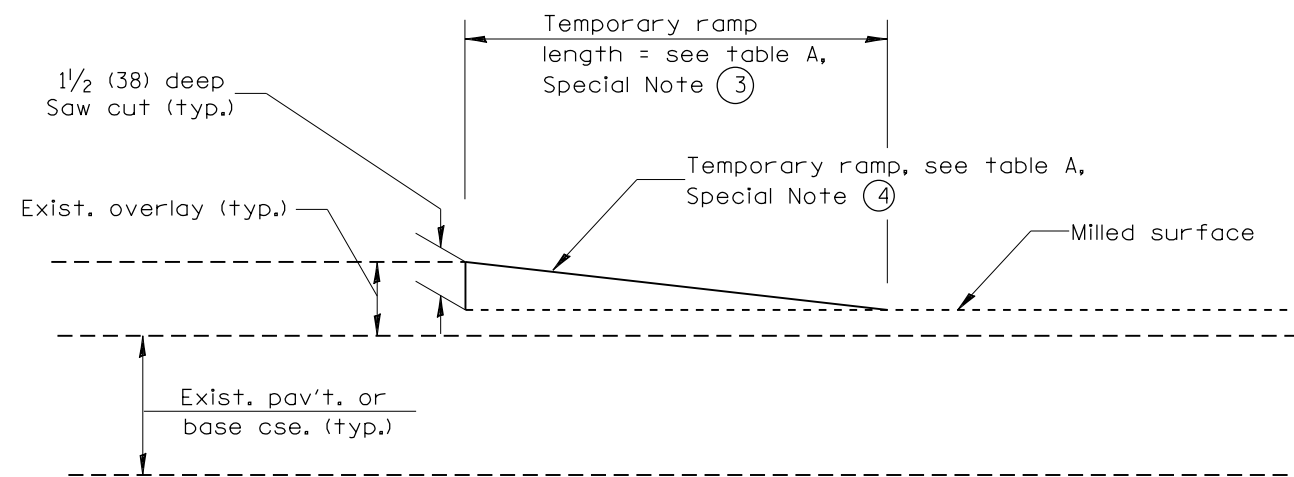
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	69
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68671	



CASE 3 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER



CASE 4 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER



DETAIL TEMPORARY RAMP

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

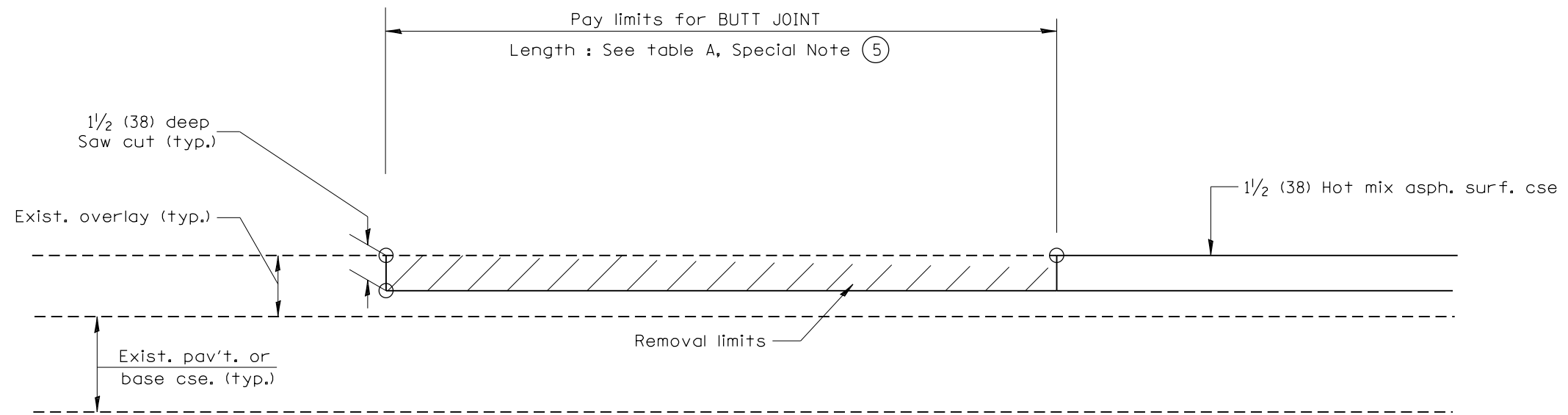
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS

NOT TO SCALE

SHT. 2 OF 3
 CADD STD. 406101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	70
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 68671				



CASE 5 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER

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

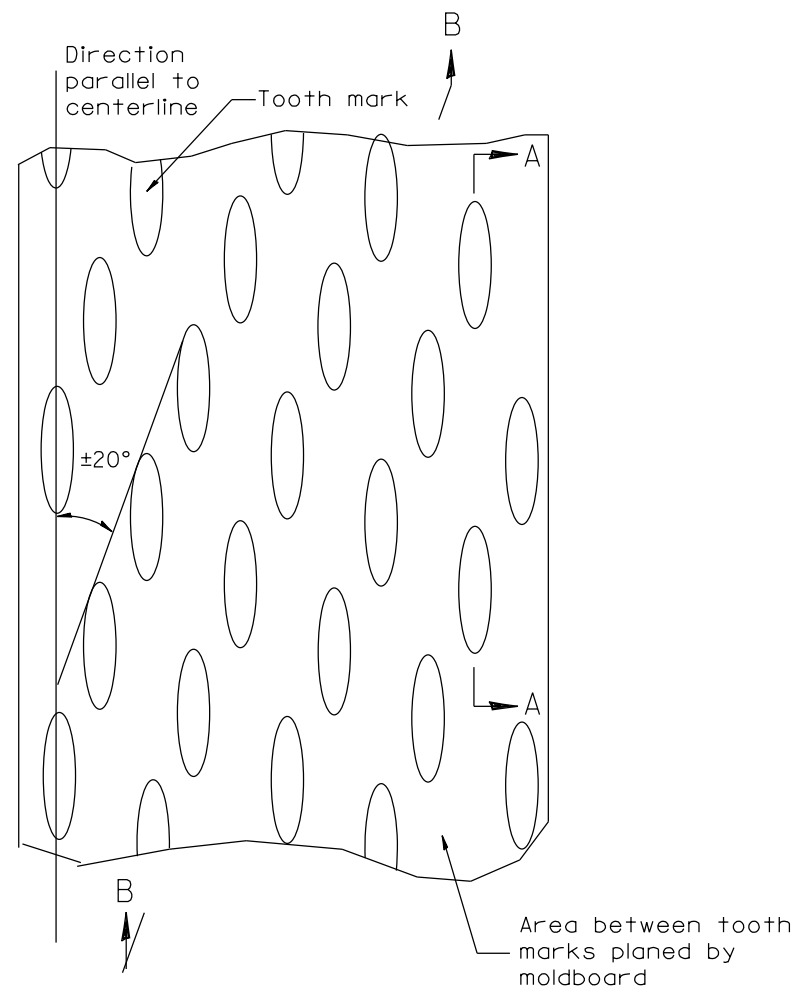
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINTS

NOT TO SCALE

SHT. 3 OF 3
CADD STD. 406101-D4

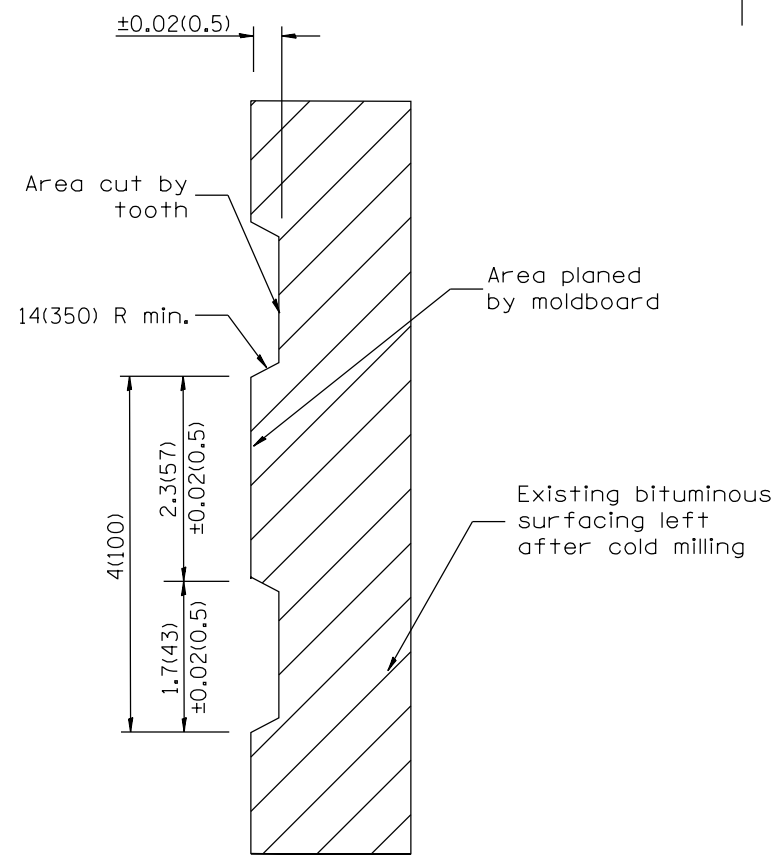
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	71
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68671	



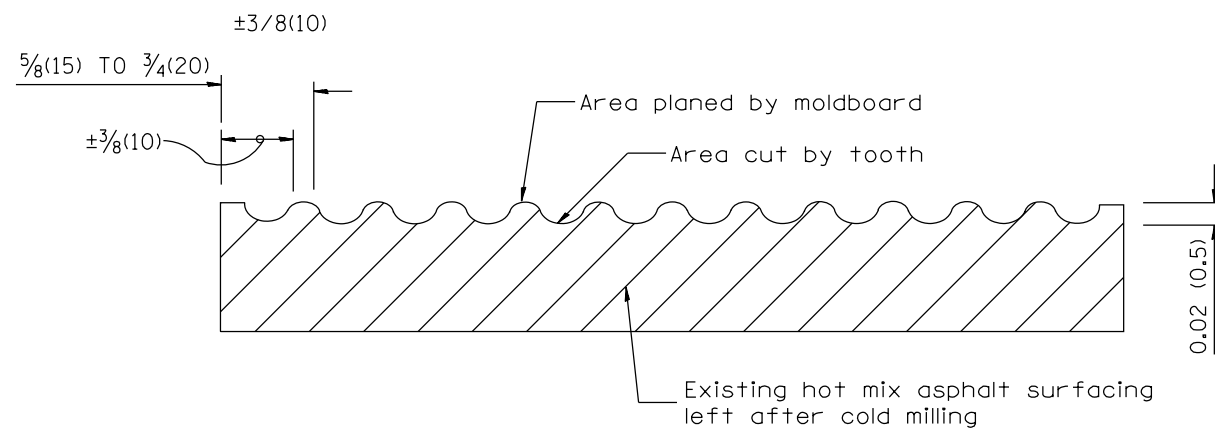
PLAN

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.



SECTION A-A



SECTION B-B PROJECTED PERPENDICULAR TO CENTERLINE

DESIGNER NOTES:
1. INCLUDE DISTRICT SPECIAL PROVISION, IF APPLICABLE.

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

01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

NOT TO SCALE

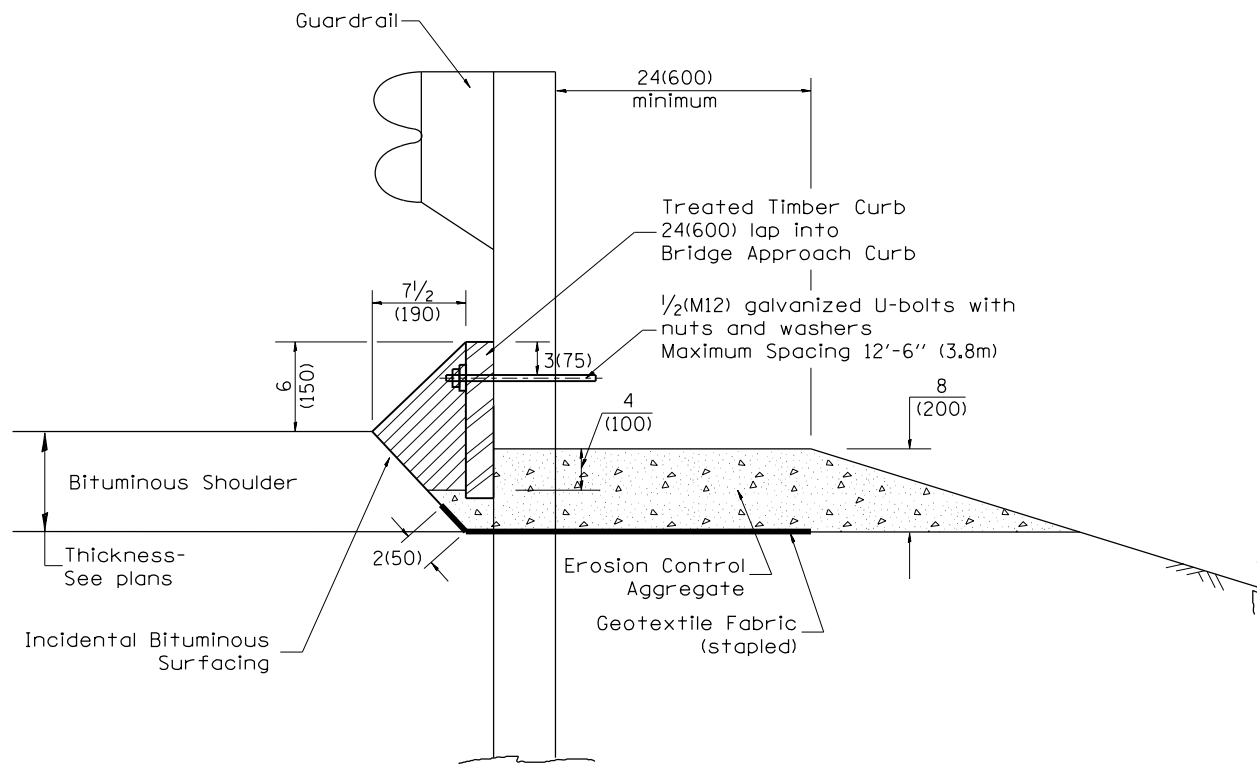
CADD STD. 440001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	72
CONTRACT NO. 68671				

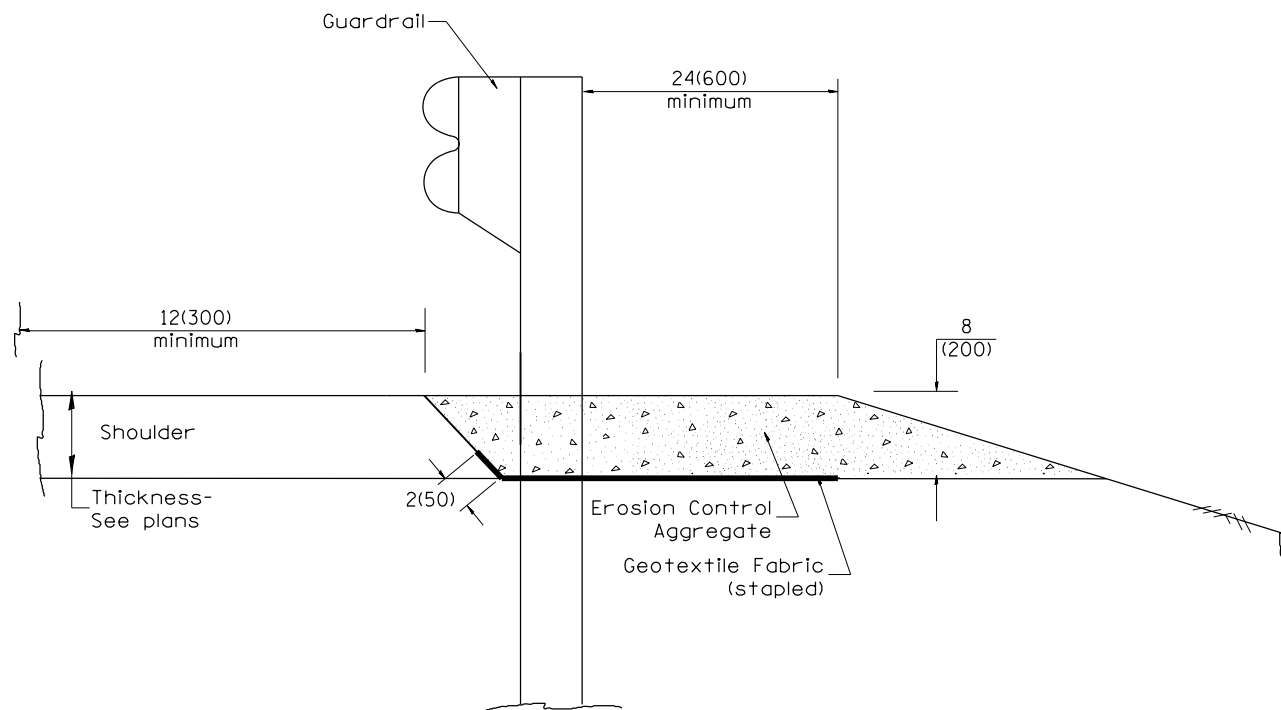
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

DESIGNER NOTES:

1. Use EROSION CONTROL CURB at guardrail installations where grades are equal to or greater than 1% and at inlets. (Include District Special Provision)
2. Use GUARDRAIL AGGREGATE EROSION CONTROL at guardrail installations where grades are less than 1% (Include District Special Provision)
3. Include State Standards 609001, 609006 or 610001 if applicable.
4. Include the following District Cadd Standards as needed: Slope Drains for Exposed Pipes; Slope Drains for Buried Pipes; Seepage Collars for Buried Pipes; Seepage Collars for Exposed Pipes; Concrete Thrust Blocks and Pipe Elbow.
5. Include District Special Provision "Aggregate Quality" for projects located in the Western Area of the District - approx. dividing line is IL 97.



TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: EROSION CONTROL CURB

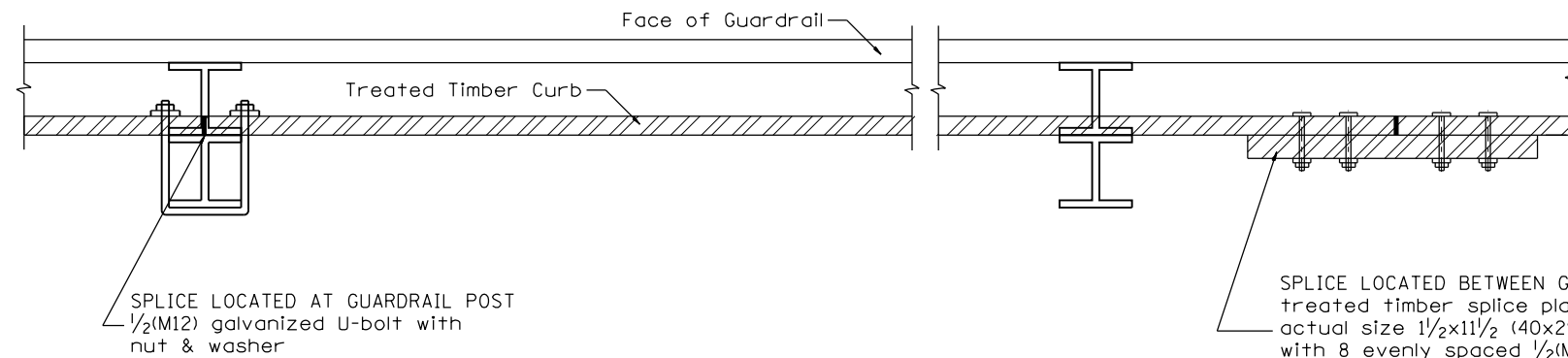
1. This work shall consist of grading as needed, installing hardware and treated timber boards, furnishing and placing mastic material and incidental bituminous surfacing in front of Steel Plate Beam Guardrail in accordance with Plan Details.
2. Timber shall be treated in accordance with Article 1007.12. All preservatives specified in the article will be allowed. Waterborne preservatives "asa" and "cca" shall have a minimum retention of 0.40 lbs./cu. ft. (6.4 kg/m³)

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
 - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
 - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.

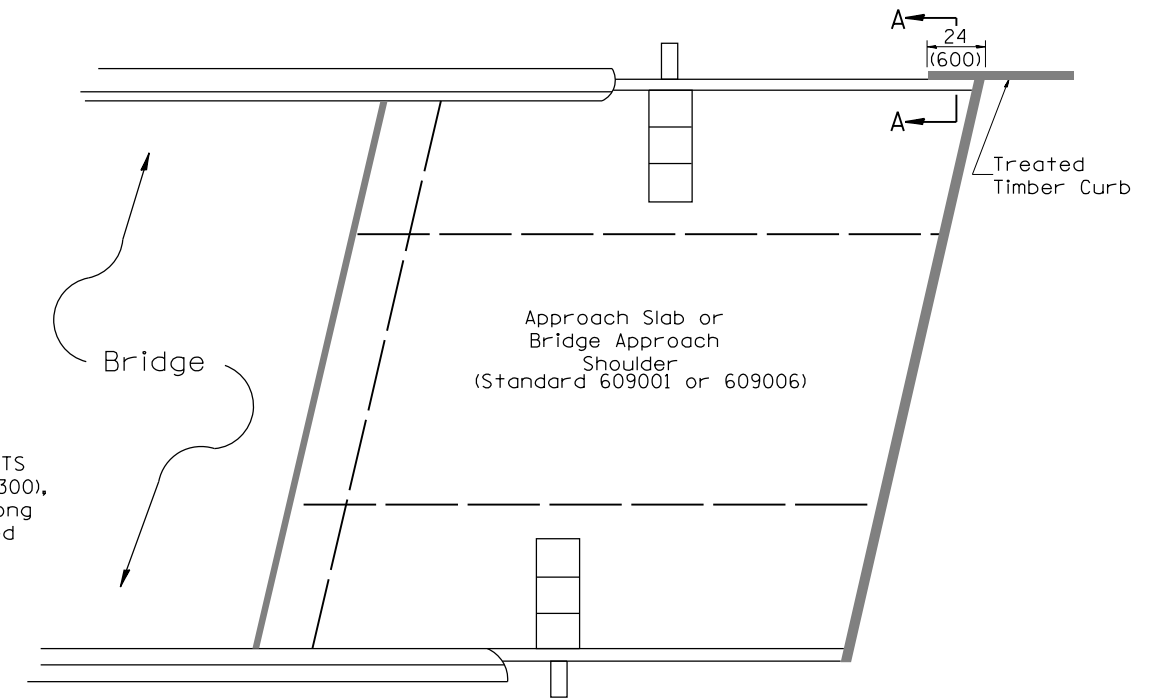
All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-22.01, NEW REVISION BOX	T.P.				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL EROSION CONTROL TREATMENTS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.						673	(102B-1)BR	TAZEWELL	89	73	
11-03-00	CORRECTION TO NOTES	M.A.						CONTRACT NO. 68671					
10-16-06	REVISED TO 2007 SPEC.	M.A.						SHT. 1 OF 2 CADD STD. 630101-D4					
							NOT TO SCALE	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

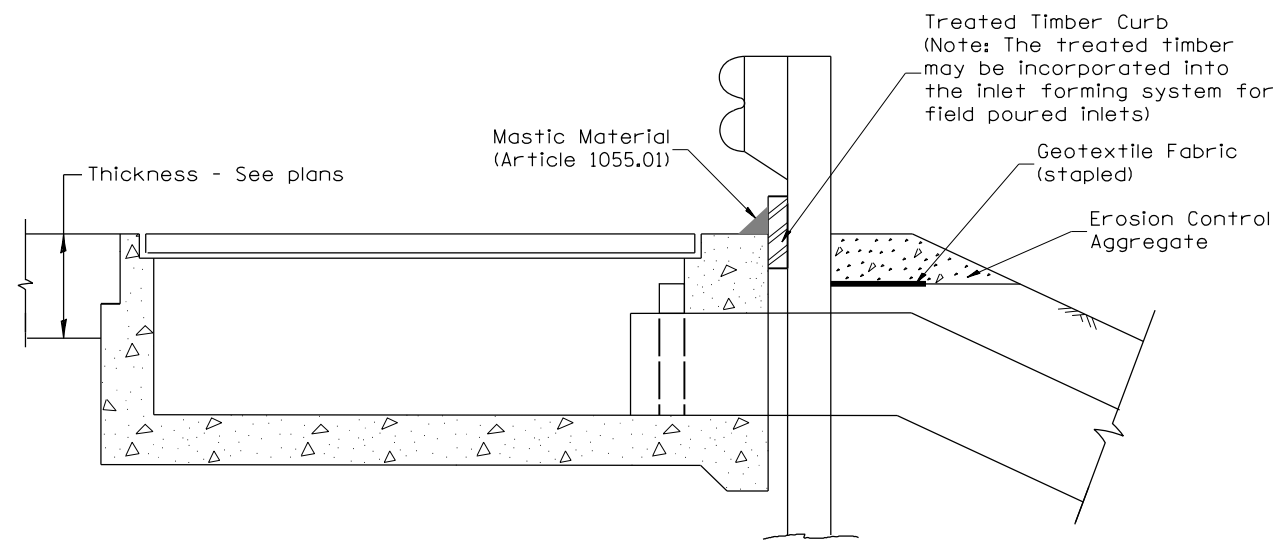


DETAIL A
(Typical Treated Timber Splices)

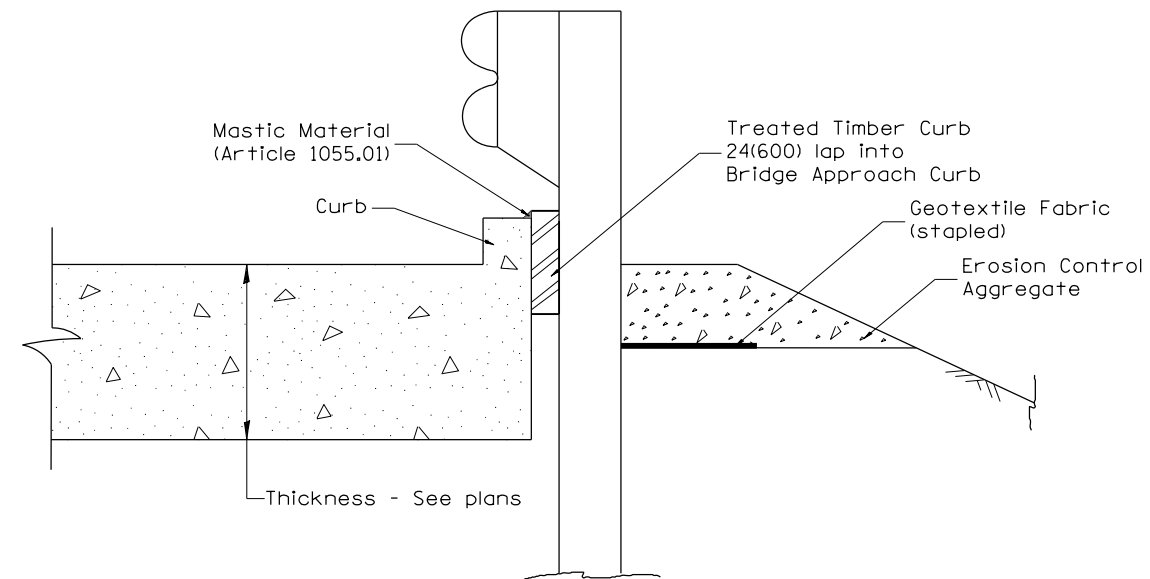
SPLICE LOCATED BETWEEN GUARDRAIL POSTS
treated timber splice plate 2x12 (50x300),
actual size 1 1/2x1 1/2 (40x290), 24(600) long
with 8 evenly spaced 1/2(M12) galvanized
bolts with nuts & washers.



PLAN VIEW
APPROACH SLAB OR BRIDGE APPROACH SHOULDER
(STANDARD 609001 or 609006)



TYPICAL SECTION WITH EROSION CONTROL CURB
AT INLETS TYPE E & F (STANDARD 610001)

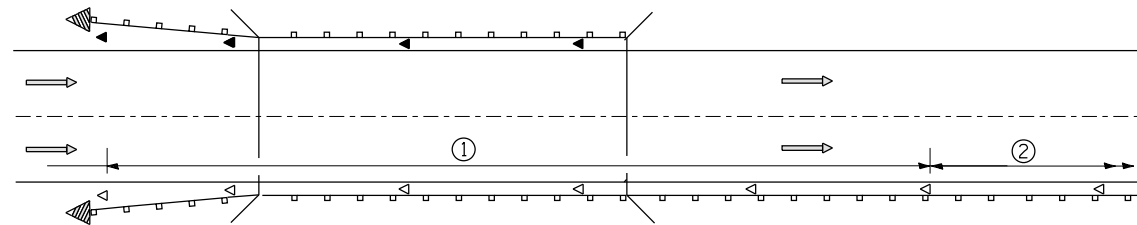


SECTION A-A
TYPICAL SECTION WITH EROSION CONTROL CURB
AT BRIDGE APPROACH CURB
(STANDARD 609001 OR 609006)

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

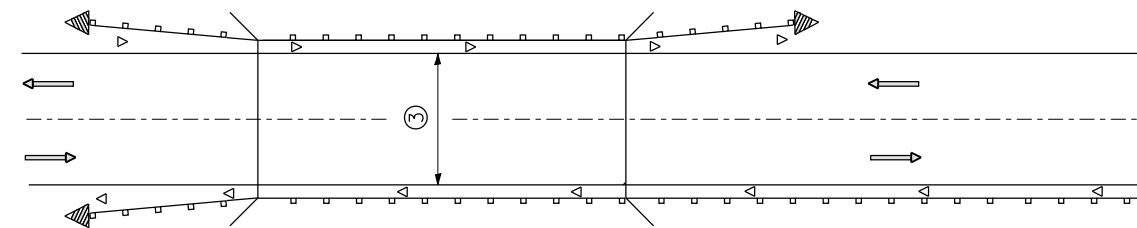
				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		GUARDRAIL EROSION CONTROL TREATMENTS		SHT. 2 OF 2 CADD STD. 630101-D4		CONTRACT NO. 68671	
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.							
673	(102B-1)BR		89	74							
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT									

DESIGNER NOTES:
 1. INCLUDE APPROPRIATE SPECIAL PROVISIONS FOR "GUARD RAIL DELINEATION POLICY: 1. TERMINAL MARKER, 2. TERMINAL MARK POST, AND 3. GUARDRAIL AND BARRIER WALL MARKERS."
 FROM INTERIM SPECIAL PROVISIONS 94-74; "GUARDRAIL AND BARRIER WALL DELINEATION."
 2. IF POST MOUNT TERMINAL MARKER IS USED, INCLUDE STATE STD. T20011.



- ① Spacing 80 ft. (24 m) max. for first 400 ft. (122 m) or curve spacing shown in Standard 635001, whichever is less (min. 4 reflectors regardless of length).
- ② After 400 ft. (122 m), transition to normal delineator spacing shown in Standard 635001, and continue as required.

ONE-WAY TRAFFIC



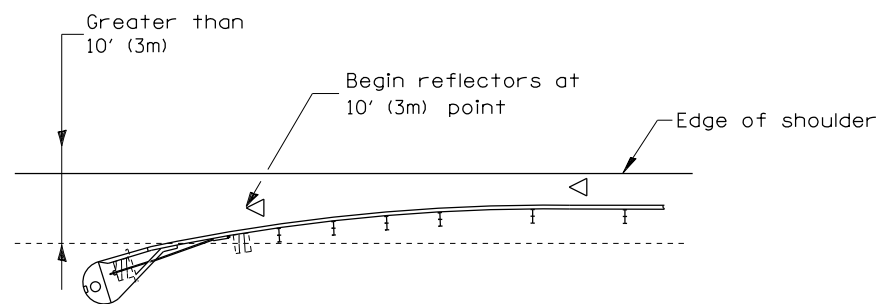
- ③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the bridge pavement is less than 24 (610) wider than the pavement approaching the bridge.

TWO-WAY TRAFFIC

GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS

LEGEND

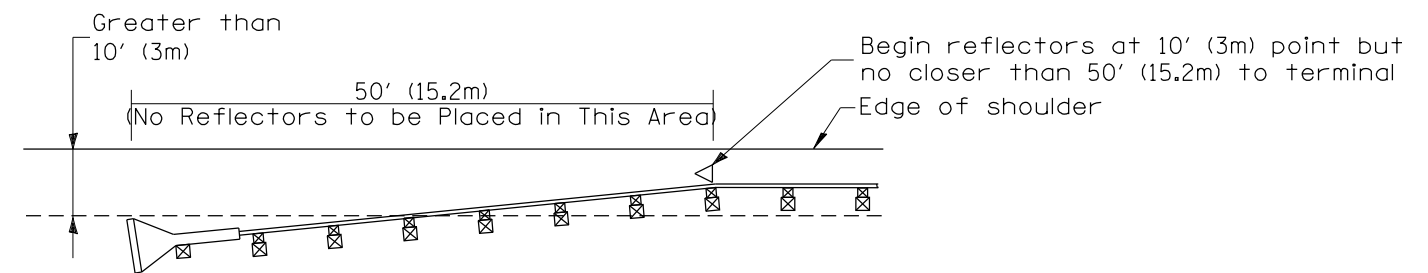
- ◁ Monodirectional silver
- ◄ Monodirectional amber
- ◄ Terminal Marker - Black/Yellow
Left or Right as appropriate



NOTE: Omit terminal marker when terminal over 10' (3m) from edge of paved shoulder or break point of unpaved shoulder, or when terminal buried in backslope.

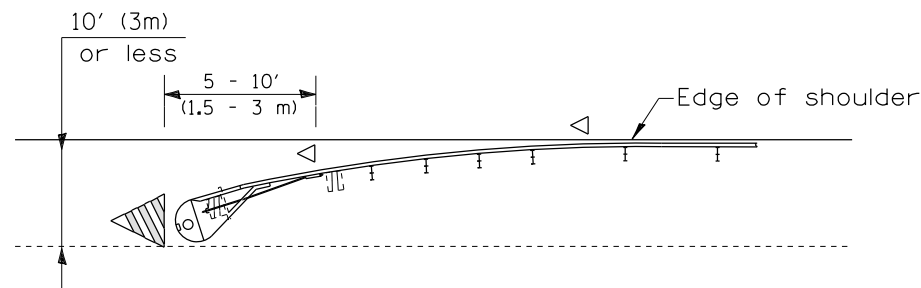
Traffic Barrier Terminal Type(*) and/or Turned-Down Terminal

[Terminal over 10' (3m) from edge of shoulder]
•See Plans for Type



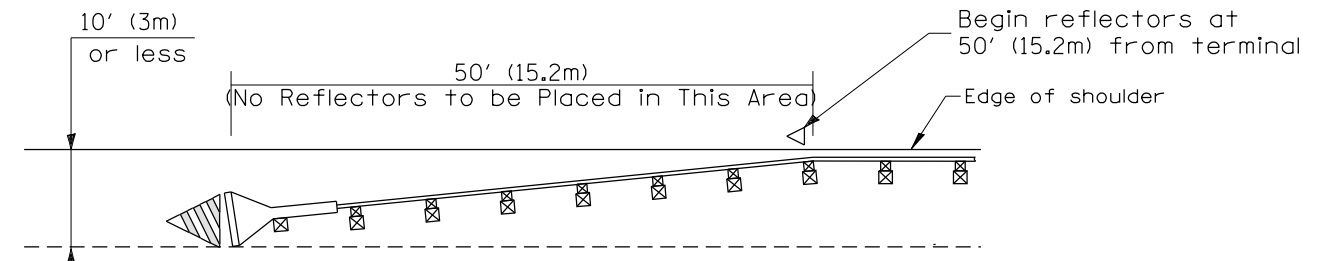
NOTE: Omit terminal marker when terminal over (10') from edge of paved shoulder or break point of unpaved shoulder.

Traffic Barrier Terminal Type 1 (Special)
[Terminal over 10' (3m) from edge of shoulder]



Traffic Barrier Terminal Type(*) and/or Turned-Down Terminal

[Terminal over 10' (3m) or less from edge of shoulder]
•See Plans for Type



Traffic Barrier Terminal Type 1(Special)
[Terminal 10' (3m) or less from edge of shoulder]

TERMINAL MARKER PLACEMENT

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

01-01-97	RENUM. E-10.02, NEW REVISION BOX	T.P.			
03-01-97	CORRECT STD. SPEC. *	J.A.			
10-16-06	REVISED TO 2007 SPEC.	M.A.			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

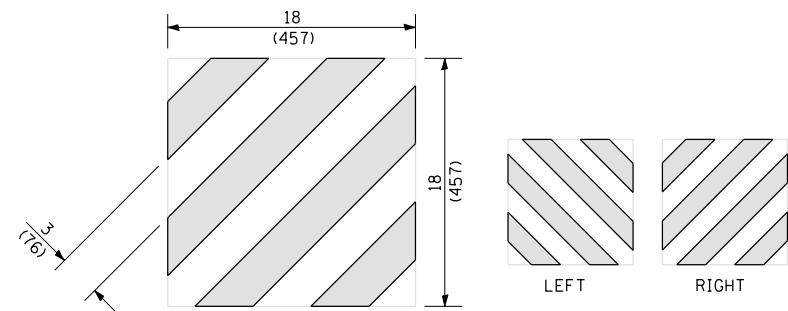
GUARDRAIL AND BARRIER WALL DELINEATION

NOT TO SCALE

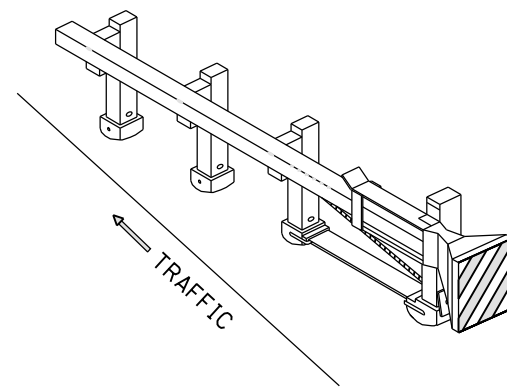
SHT. 1 OF 3
CADD STD. 635101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	75
CONTRACT NO. 68671				

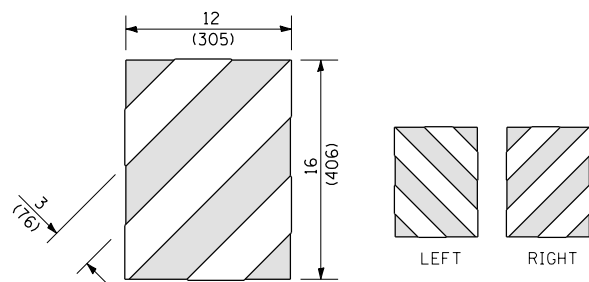
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



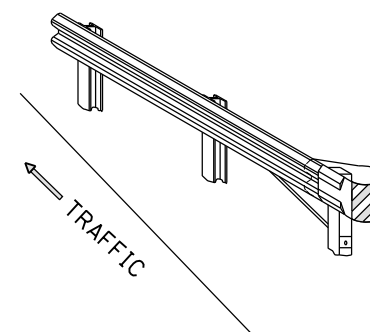
For Traffic Barrier Terminal Type 1 (Special)



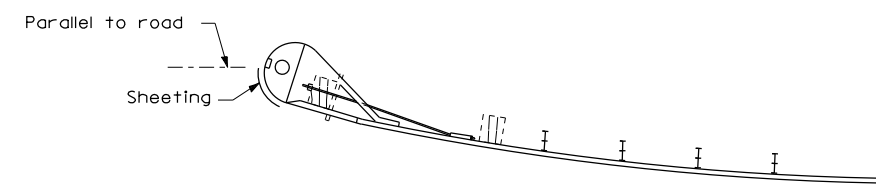
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type 1 (Special)



For Traffic Barrier Terminal Type (*)
and Post Mount
• See Plans for Type



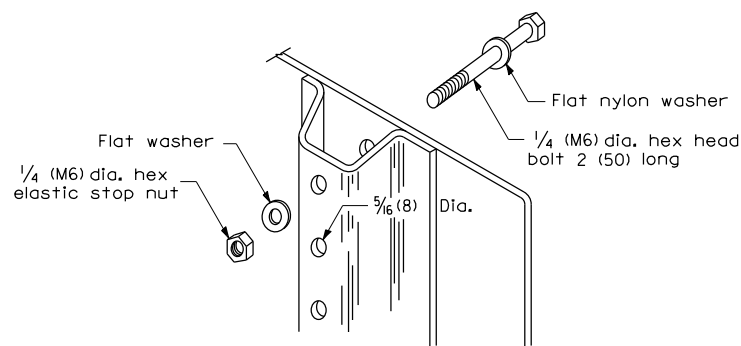
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type (*)
• See Plans for Type



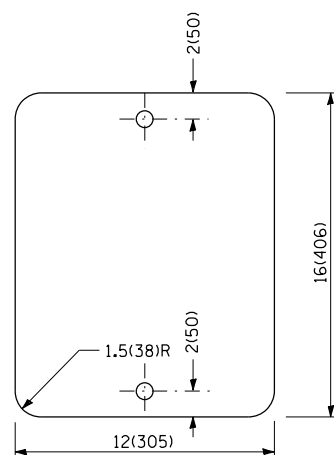
Sheeting Position for
Traffic Barrier Terminal Type (*)
• See Plans for Type

TERMINAL MARKER DETAILS

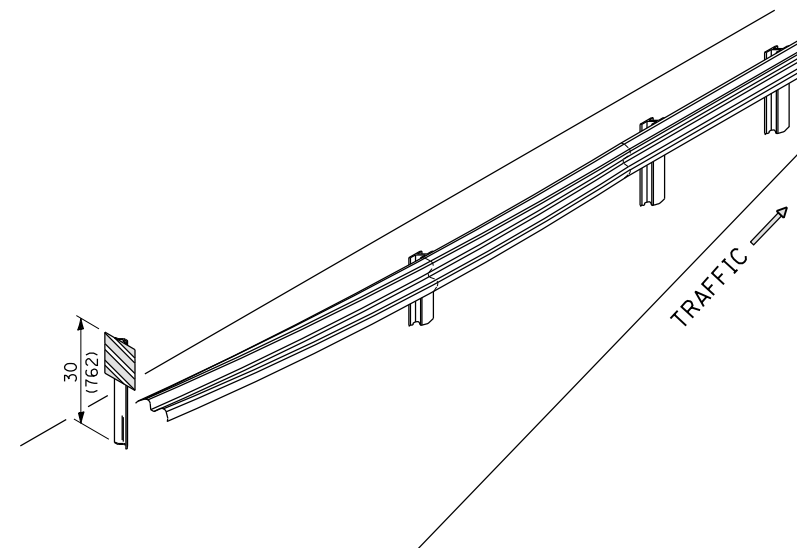
- Color: Black / Yellow reflectorized
- OM - I100 (L or R) Direct applied reflective sheeting
- OM - I200 (L or R) Post mounted



DETAIL OF MOUNTING TERMINAL MARKER TO POST



STANDARD TERMINAL MARKER



ALTERNATE TREATMENT - POST MOUNTED
(For turned-down terminal where sheeting cannot be direct applied)

POST MOUNTED TERMINAL MARKER ASSEMBLY

TERMINAL MARKER TREATMENTS

GENERAL NOTES

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

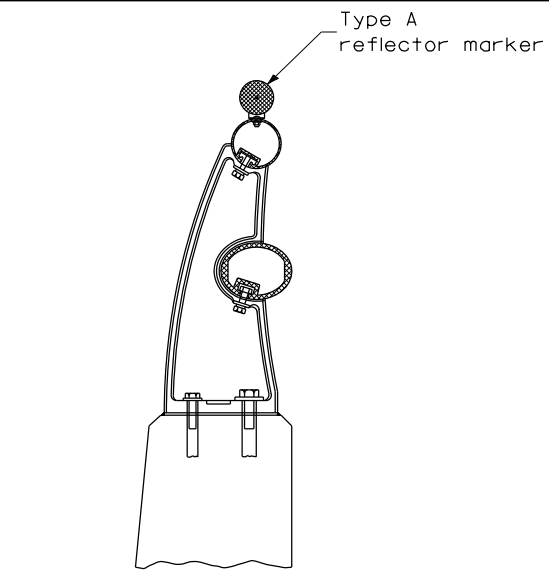
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL AND BARRIER WALL DELINEATION

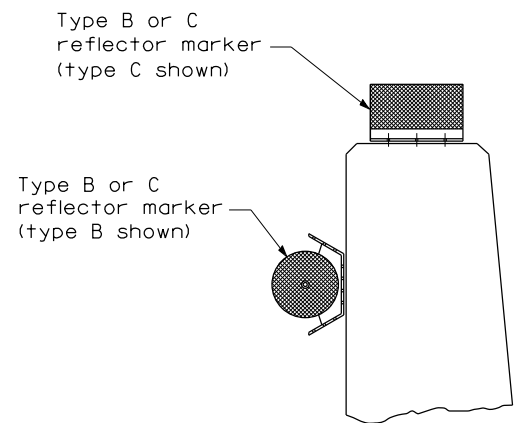
NOT TO SCALE

SHT. 2 OF 3
CADD STD. 635101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	76
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68671	

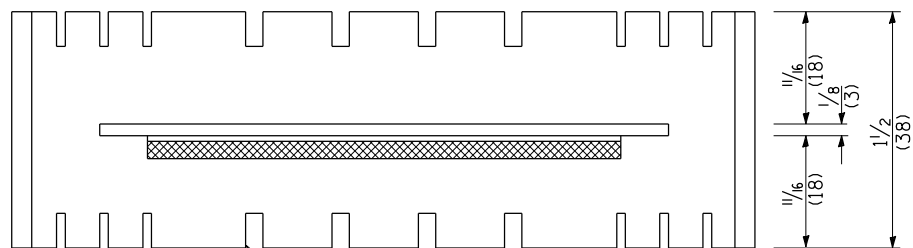


TYPICAL MOUNTING DETAIL FOR BRIDGE RAIL REFLECTOR

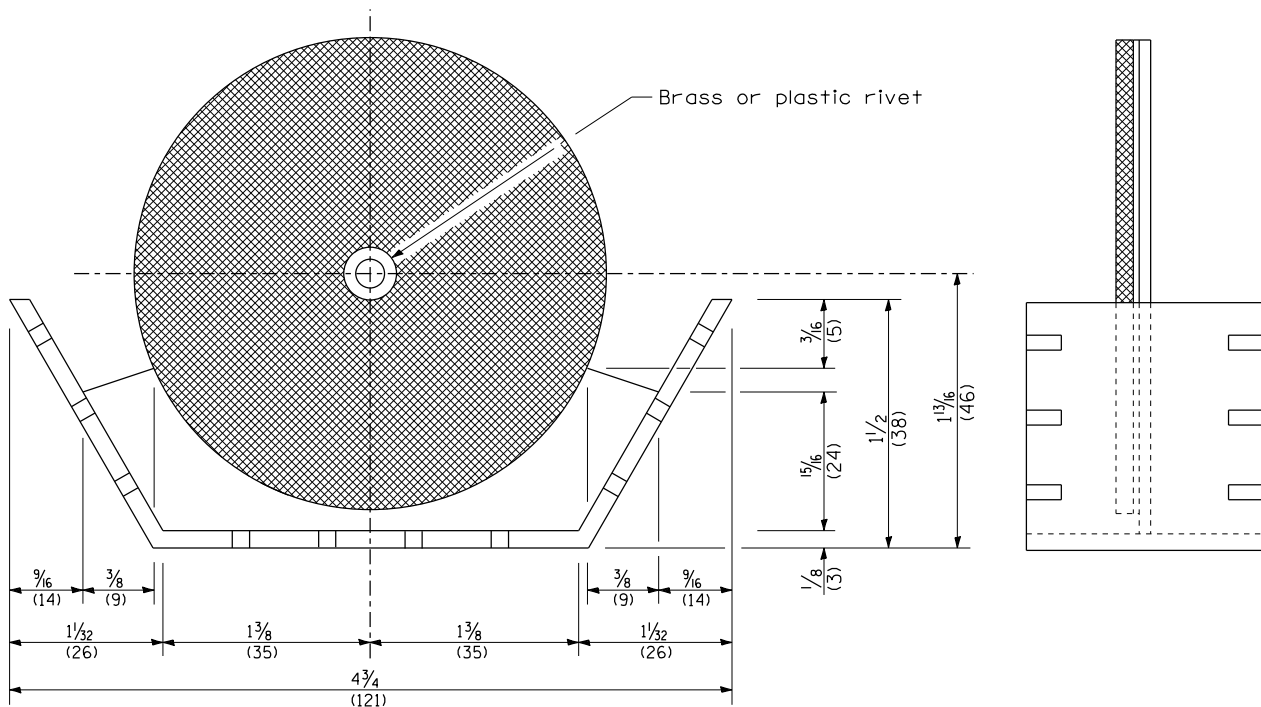


TYPICAL MOUNTING DETAIL FOR BARRIER WALL REFLECTOR

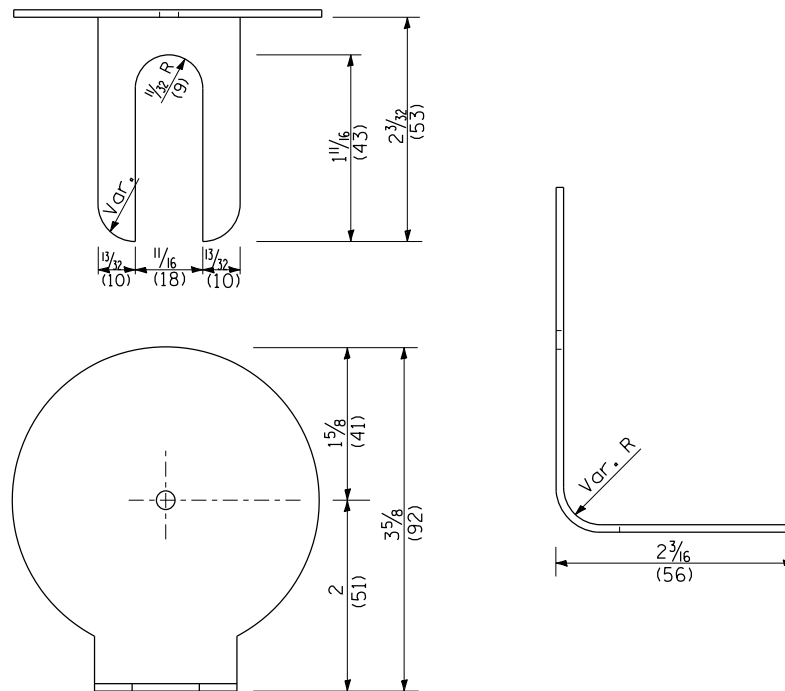
REFLECTOR MOUNTING



Adhesive weep slots or holes equally spaced on both sides

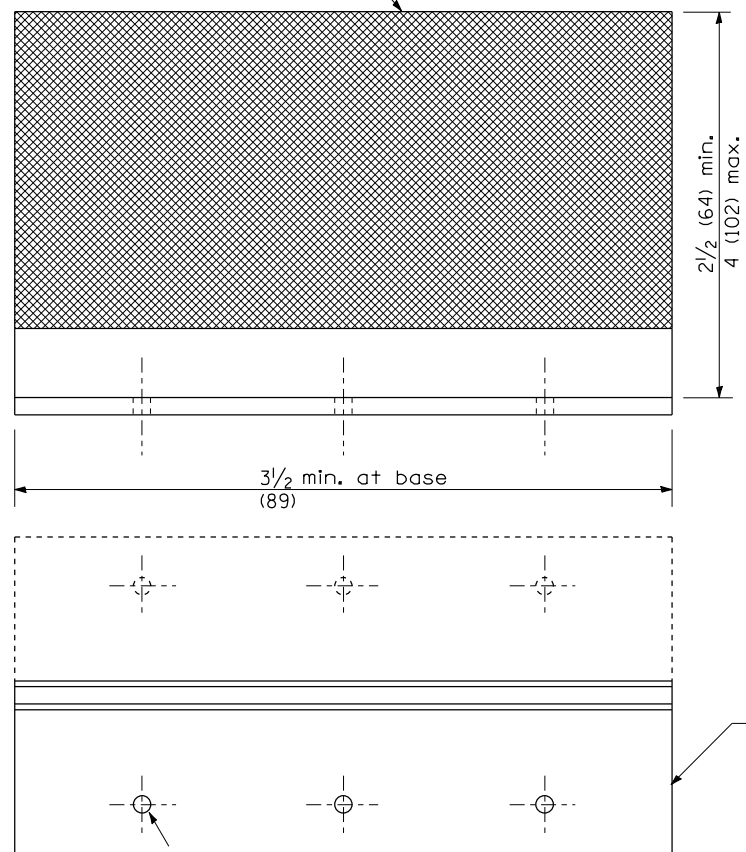


REFLECTOR MARKER TYPE B



REFLECTOR MARKER TYPE A

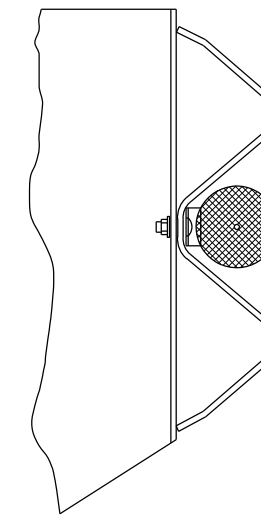
Min. reflective area 6 1/2 sq. in. (4,194 mm²) each side. May be rectangular or slight trapezoid.



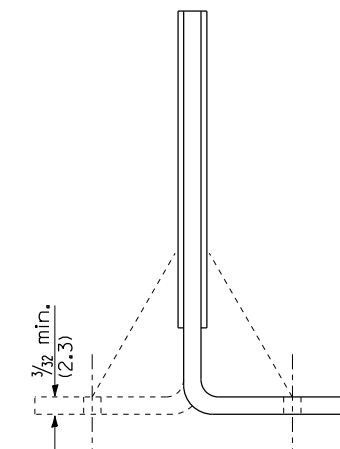
REFLECTOR MARKER TYPE C

3 min. adhesive weep holes or slots each side, variable spacing.

Minimum total area of base 7.0 Sq. in. (4,516 mm²)



TYPICAL GUARDRAIL MOUNTING WITH REFLECTOR MARKER TYPE A



Cross section may be "T" or "L" shaped and may have side supports at ends.

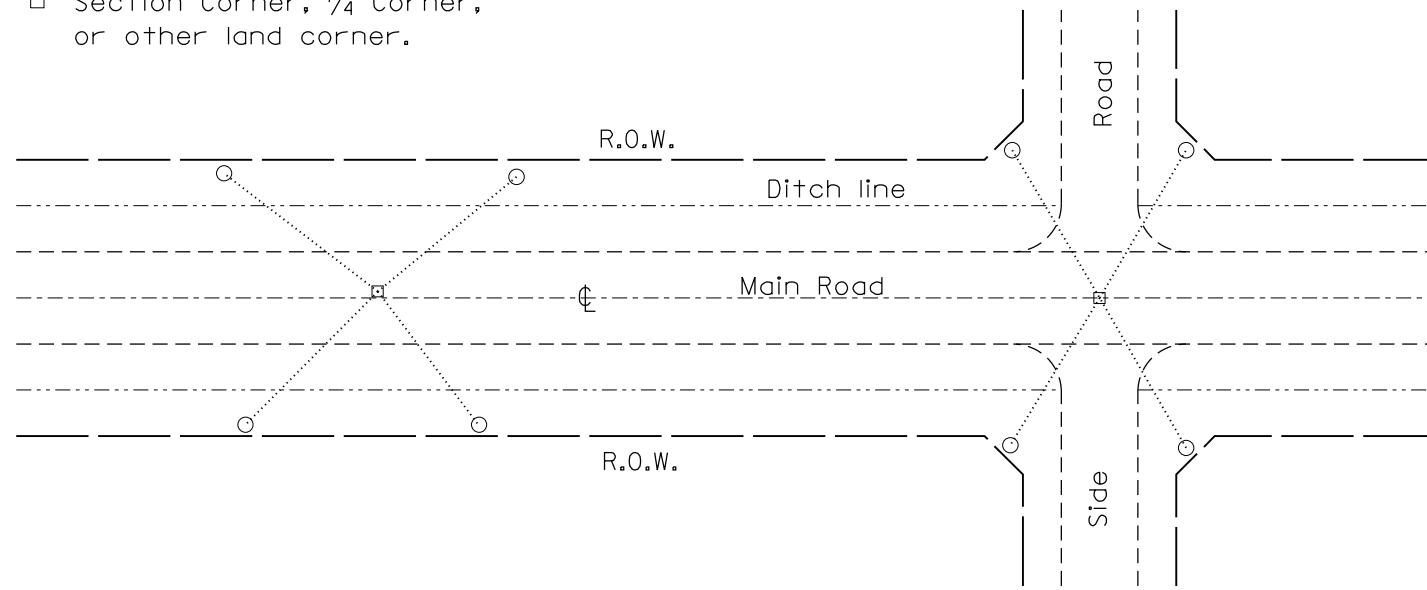
REFLECTORS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	77
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 68671	

PERMANENT SURVEY TIES

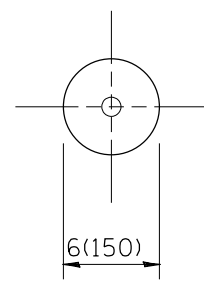
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



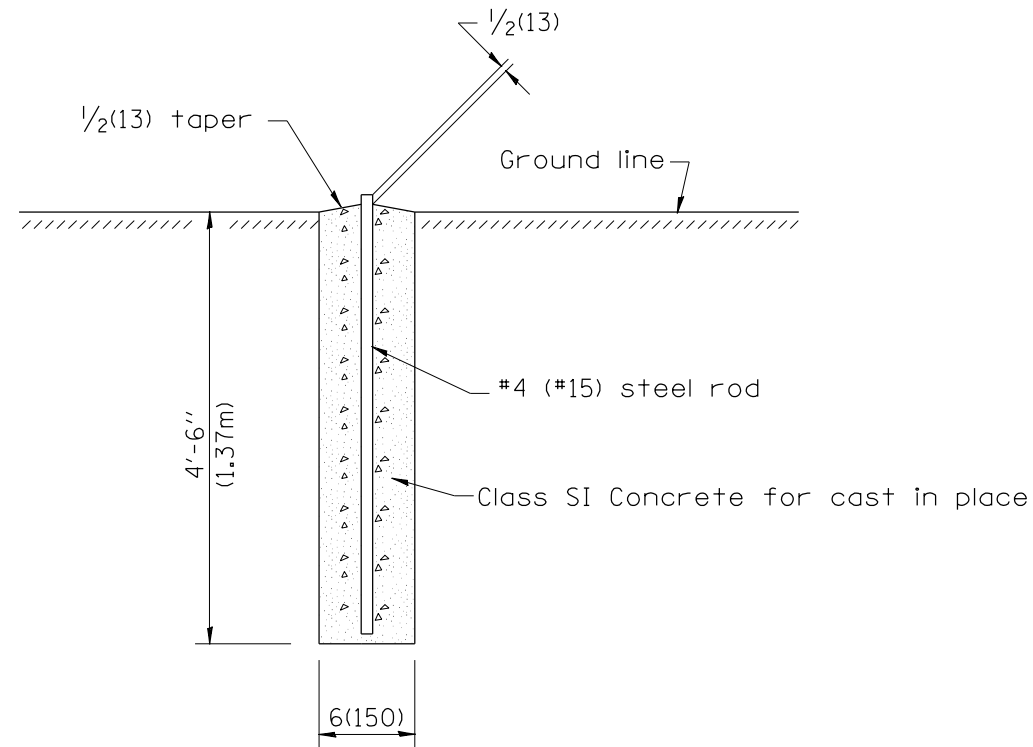
TYPICAL APPLICATION

GENERAL NOTES

1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the surveyor setting the PSM. All ties shall be turned over to the IDOT Chief of Surveys or Chief of Plats for recordation.
4. All documentation shall be performed by a PLS

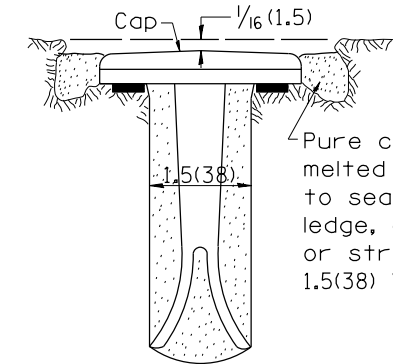
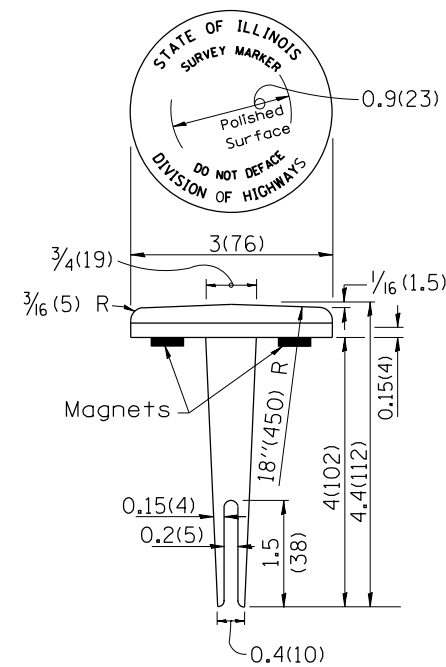


PLAN



SECTION

PERMANENT SURVEY MARKERS



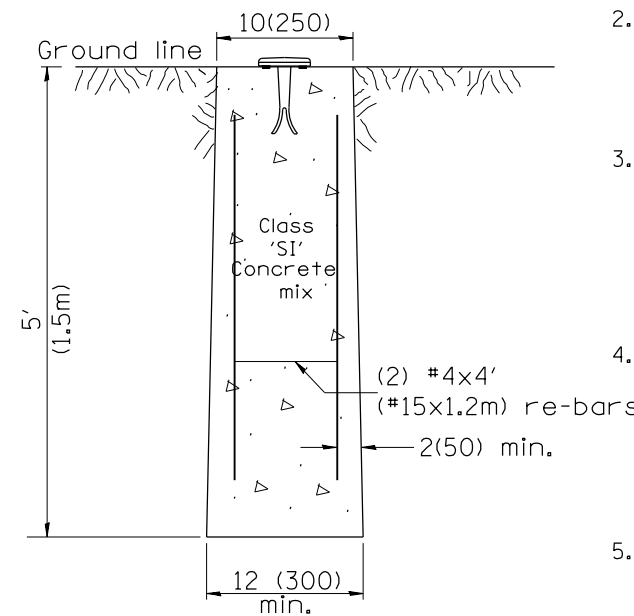
Pure cement and water or melted sulfur. User to seal tablet in rock ledge, concrete pavement or structure, set in hole 1.5(38) in diameter.

INSTALLED

TYPE I

GENERAL NOTES

1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s, P.C.'s, and P.I.'s located within the R.O.W. of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.



MARKER CAST IN PLACE TYPE II

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

DESIGNER NOTES:
 1. ADD DISTRICT SPECIAL PROVISION IF PLACING A TYPE I MARKER ON A STRUCTURE.
 2. MODIFIES STATE STD 667101. DON'T USE STATE STD IF USING CADD STANDARD
 3. PERMANENT SURVEY MARKERS SHALL BE PLACED TO PERPETUATE THE SURVEY LINES OF DIVIDED HIGHWAYS AND THE CENTERLINE OF ALL OTHERS WHERE THESE LINES HAVE BEEN ESTABLISHED BY SURVEY.
 4. PERMANENT SURVEY MARKERS SHALL BE PLACED AT ALL LAND SECTION CORNERS WITHIN THE STATE R.O.W. WHERE THE MONUMENTS HAVE BEEN FOUND OR RELOCATED BY SURVEY.

01-01-97	RENUM. D-3.01, NEW REVISION BOX, REVISED	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
	TITLE BOX, ADD DESIGNER NOTE		01-04-11	REVISED FOR CORRECTIONS	R.D.
07-07-98	ADD DESIGNER NOTE	J.A.			
05-24-06	REMOVED GEN. NOTE UNDER TIES	M.A.			

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

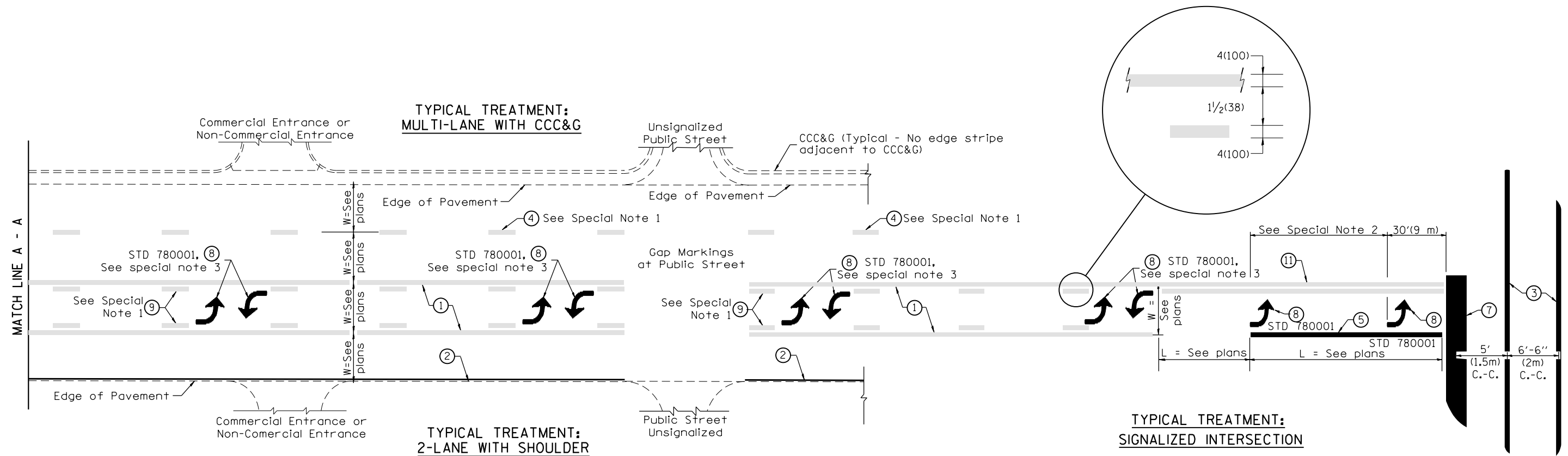
**PERMANENT SURVEY TIE &
 PERMANENT SURVEY MARKERS TY.I - TY.II**

NOT TO SCALE

CADD STD. 667101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	78
CONTRACT NO. 68671				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DESIGNER NOTES:
1. Include State Standard 780001 (Typical Pavement Markings)



FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A) (See Table A)
- ⑪ 4(100) Double Solid (Yellow) (See Table A)

SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - B. The maximum spacing between arrows is 80' (24 m).
 - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
 - A. A minimum of two (2) arrow pairs is required.
 - B. The maximum spacing between arrow pairs is 200' (61 m).
 - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
 - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.		
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.		
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.		

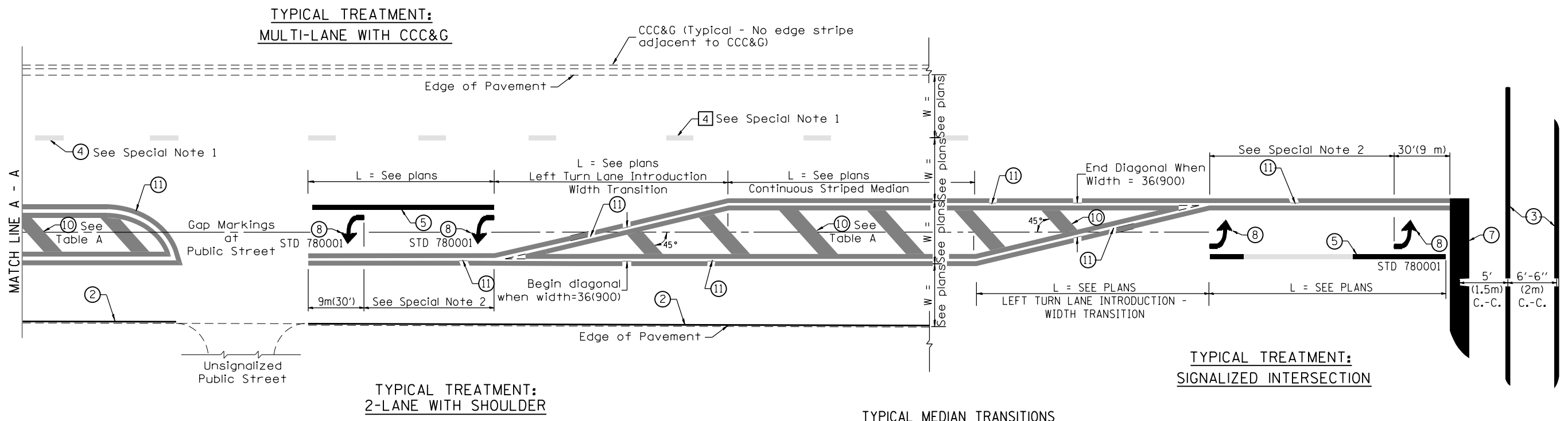
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

TYPICAL PAVEMENT MARKINGS

SHT. 1 OF 2
CADD STD. 780001-D4

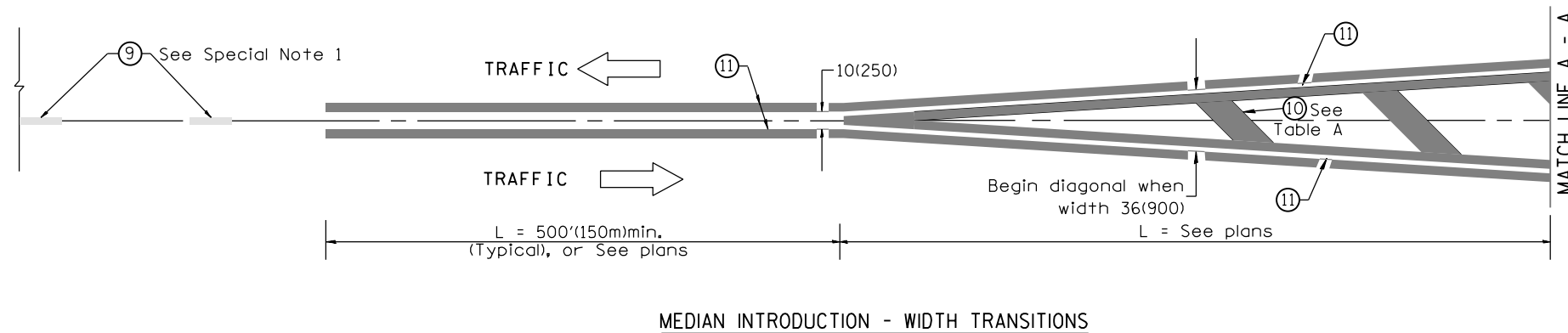
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	79
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68671	



FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

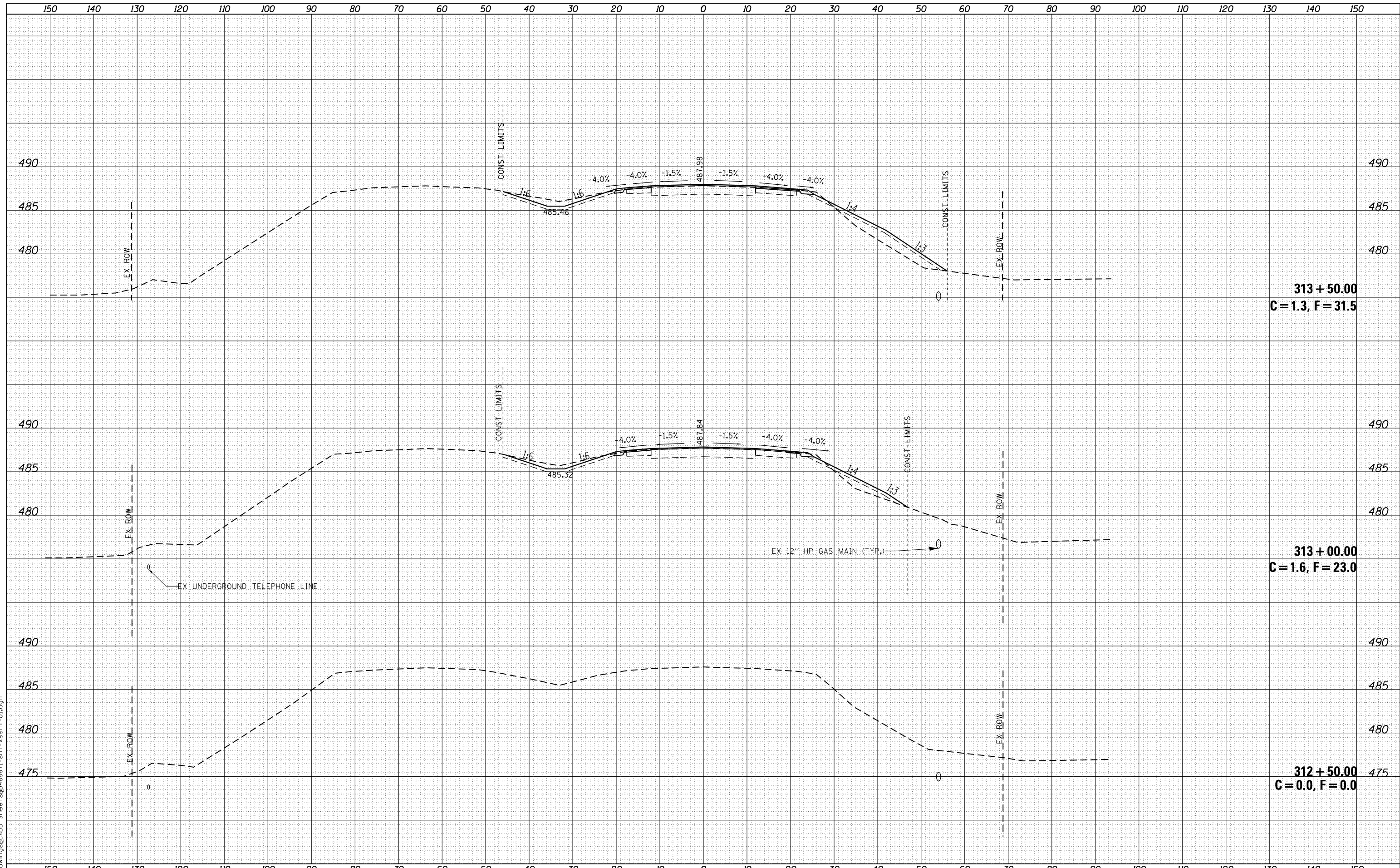
SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



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

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
NO.	



Creek-Phase 116D-rwings@CAD Sheets 8D468671-SHT-33SHT-01.DGN



USER NAME	= WAH
DESIGNED	- CL
DRAWN	- WAH
CHECKED	- KJC/HTL
DATE	-10/04/12
PLLOT SCALE	= 20.0000' / in.
PLLOT DATE	= 12/13/2012

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

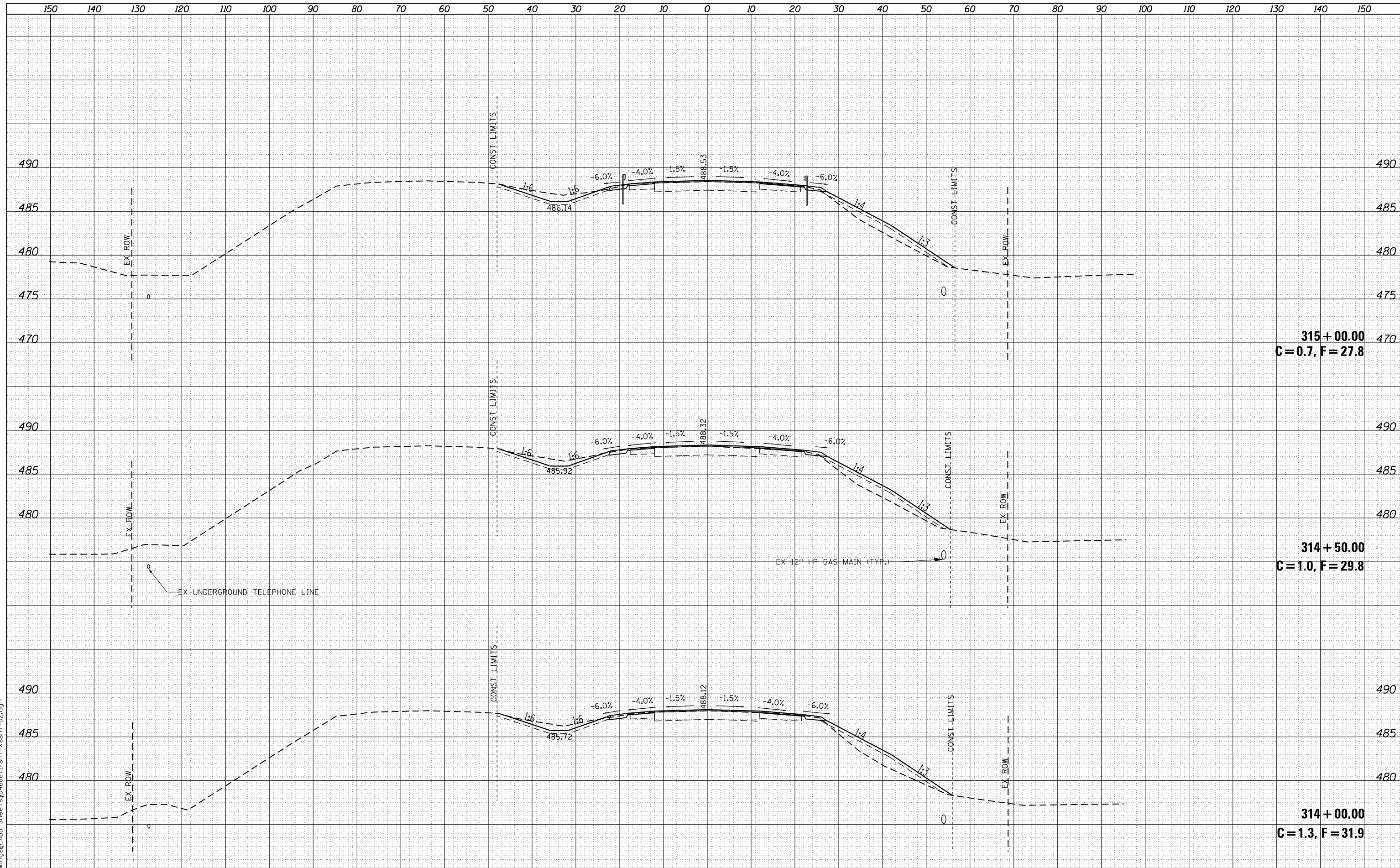
**ROADWAY CROSS SECTIONS
IL 116 OVER TEN MILE CREEK**

SCALE: SHEET NO. 1 OF 5 SHEETS STA. 312+50.00 TO STA. 313+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	81
				CONTRACT NO. 68671
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

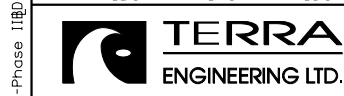
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



315 + 00.00
C = 0.7, F = 27.8

314 + 50.00
C = 1.0, F = 29.8

314 + 00.00
C = 1.3, F = 31.9



USER NAME = WAH	DESIGNED - CL	REVISED -
	DRAWN - WAH	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - KJC/HTL	REVISED -
PLOT DATE = 12/13/2012	DATE - 10/04/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY CROSS SECTIONS
IL 116 OVER TEN MILE CREEK

SCALE: SHEET NO. 2 OF 5 SHEETS STA. 314+00.00 TO STA. 315+00.00

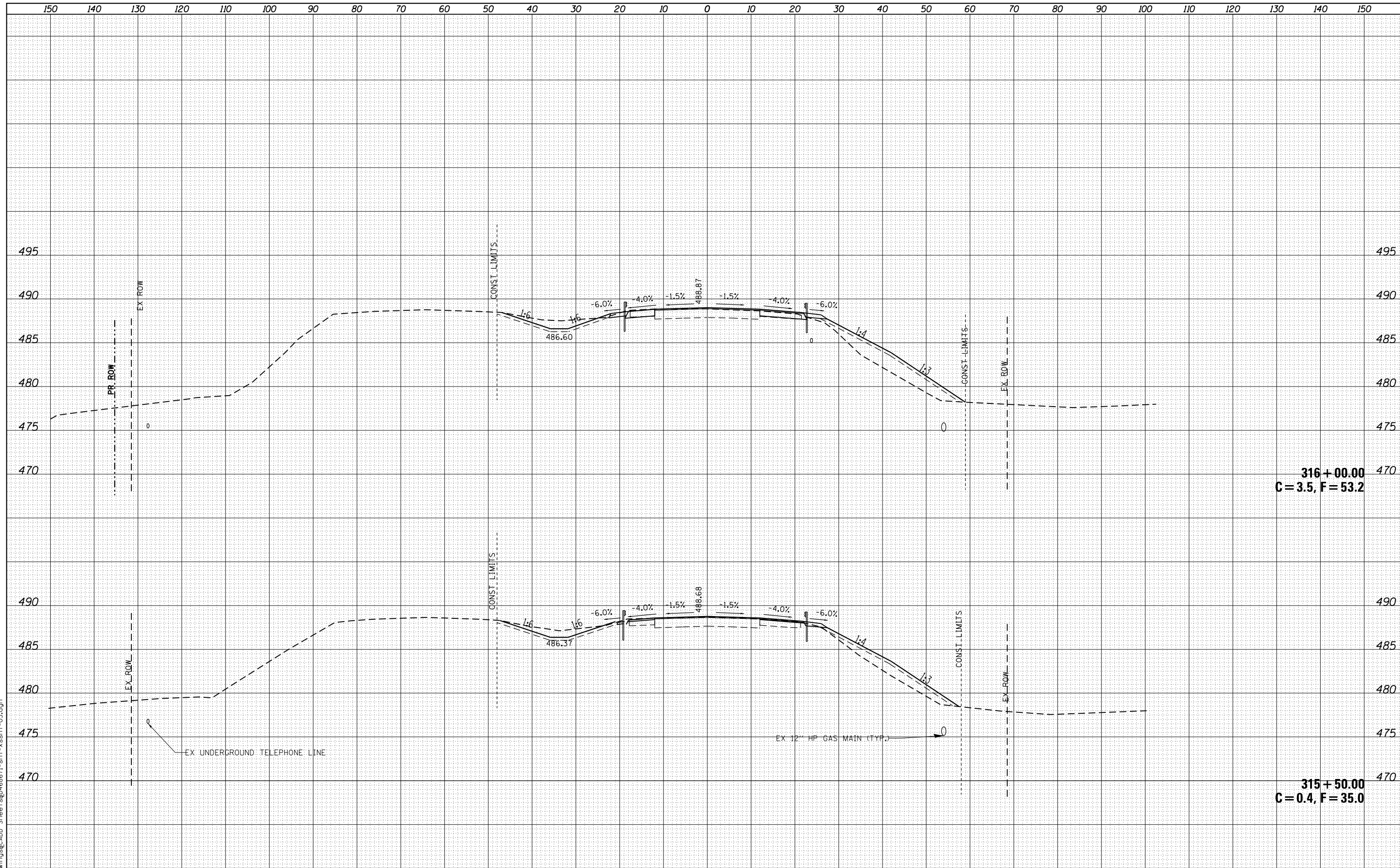
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	82
CONTRACT NO. 68671				

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

Creek-Phase 116D-cwings-CADD Sheets 10468571-SHT-25BNT-02.dgn

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

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



Creek-Phase 1110-cwings-CADD Sheets 110-468571-SHT-35B1-303099



USER NAME	= WAH
DESIGNED	- CL
DRAWN	- WAH
CHECKED	- KJC/HTL
DATE	-10/04/12
PLOT SCALE	= 20.0000' / in.
PLOT DATE	= 12/13/2012

REVISD	-
REVISD	-
REVISD	-
REVISD	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

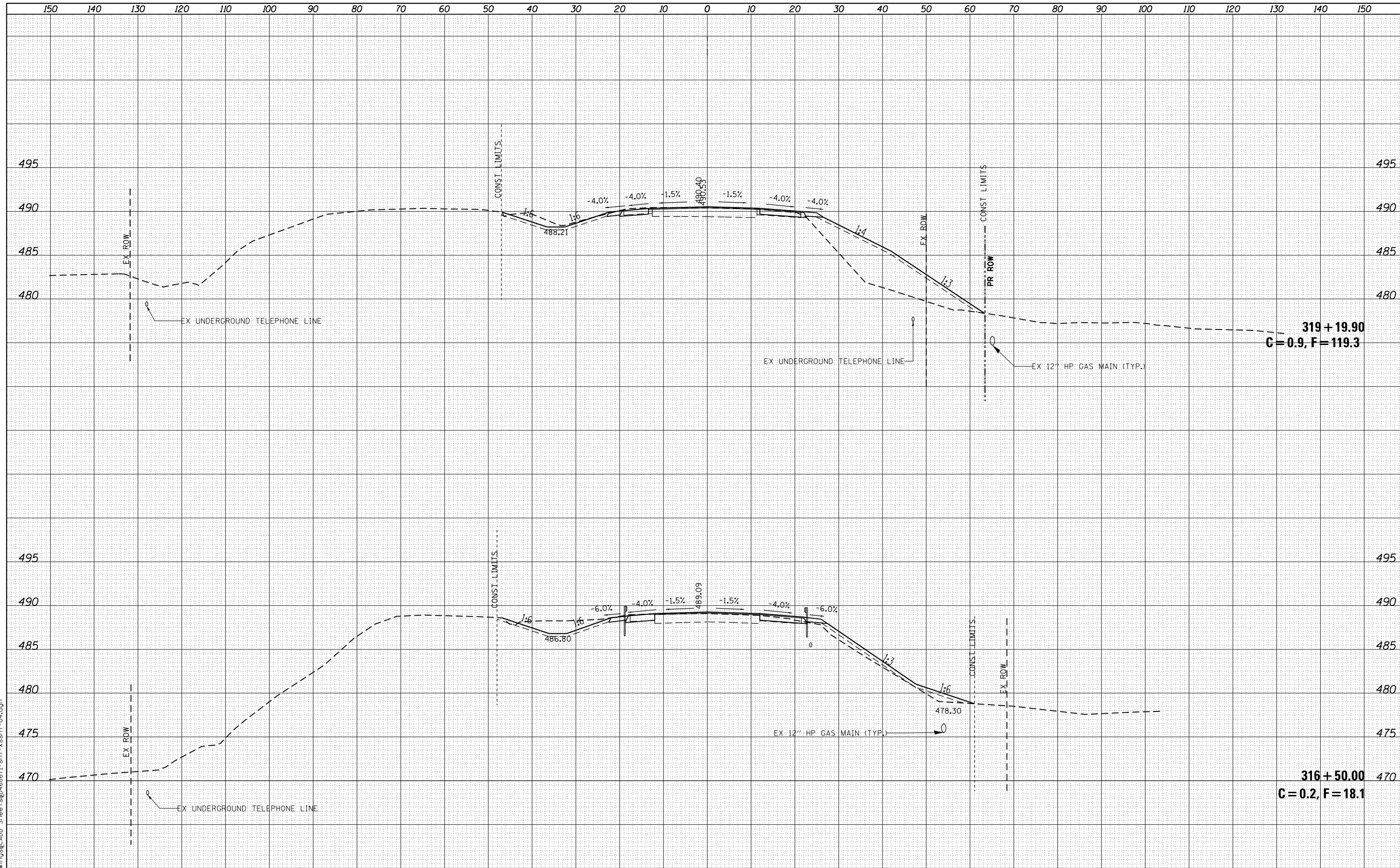
**ROADWAY CROSS SECTIONS
IL 116 OVER TEN MILE CREEK**

SCALE: SHEET NO. 3 OF 5 SHEETS STA. 315+50.00 TO STA. 316+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	83
CONTRACT NO. 68671				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



Creek-Phase 1110-Drawing-CADD Sheets 10468571-SHT-15B11-04.dgn



USER NAME = WAH	DESIGNED - CL	REVISED -
	DRAWN - WAH	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - KJC/HTL	REVISED -
PLOT DATE = 12/13/2012	DATE - 10/04/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY CROSS SECTIONS
IL 116 OVER TEN MILE CREEK**

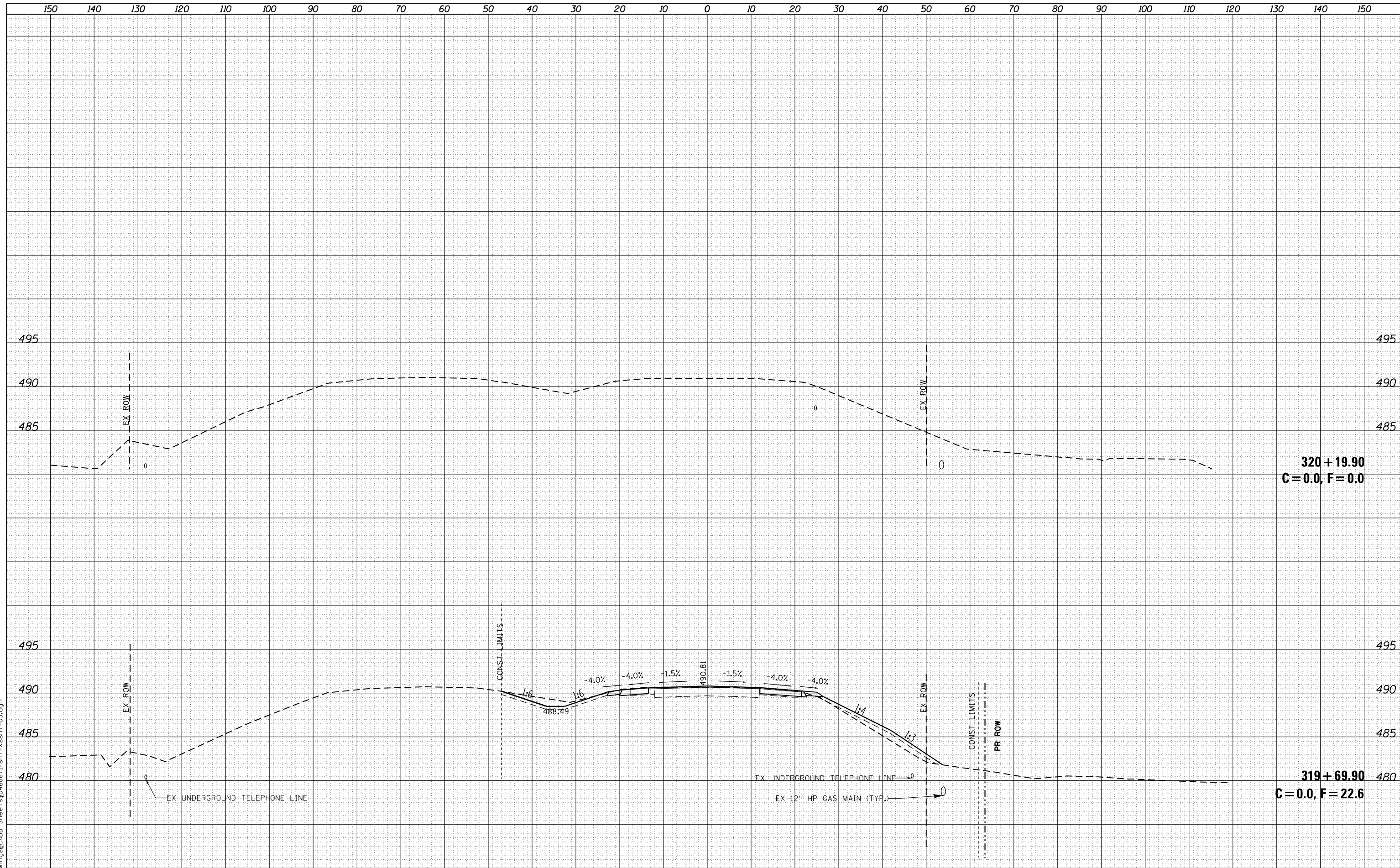
SCALE: SHEET NO. 4 OF 5 SHEETS STA. 316+50.00 TO STA. 317+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	84
CONTRACT NO. 68671				

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

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

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



Creek-Phase 1100-cwings-CADD Sheets\0468671-SHT-55B1-05.dgn



USER NAME = WAH	DESIGNED - CL	REVISIED -
	DRAWN - WAH	REVISIED -
PLOT SCALE = 20.0000' / in.	CHECKED - KJC/HTL	REVISIED -
PLOT DATE = 12/13/2012	DATE - 10/04/12	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY CROSS SECTIONS
IL 116 OVER TEN MILE CREEK**

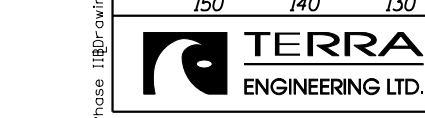
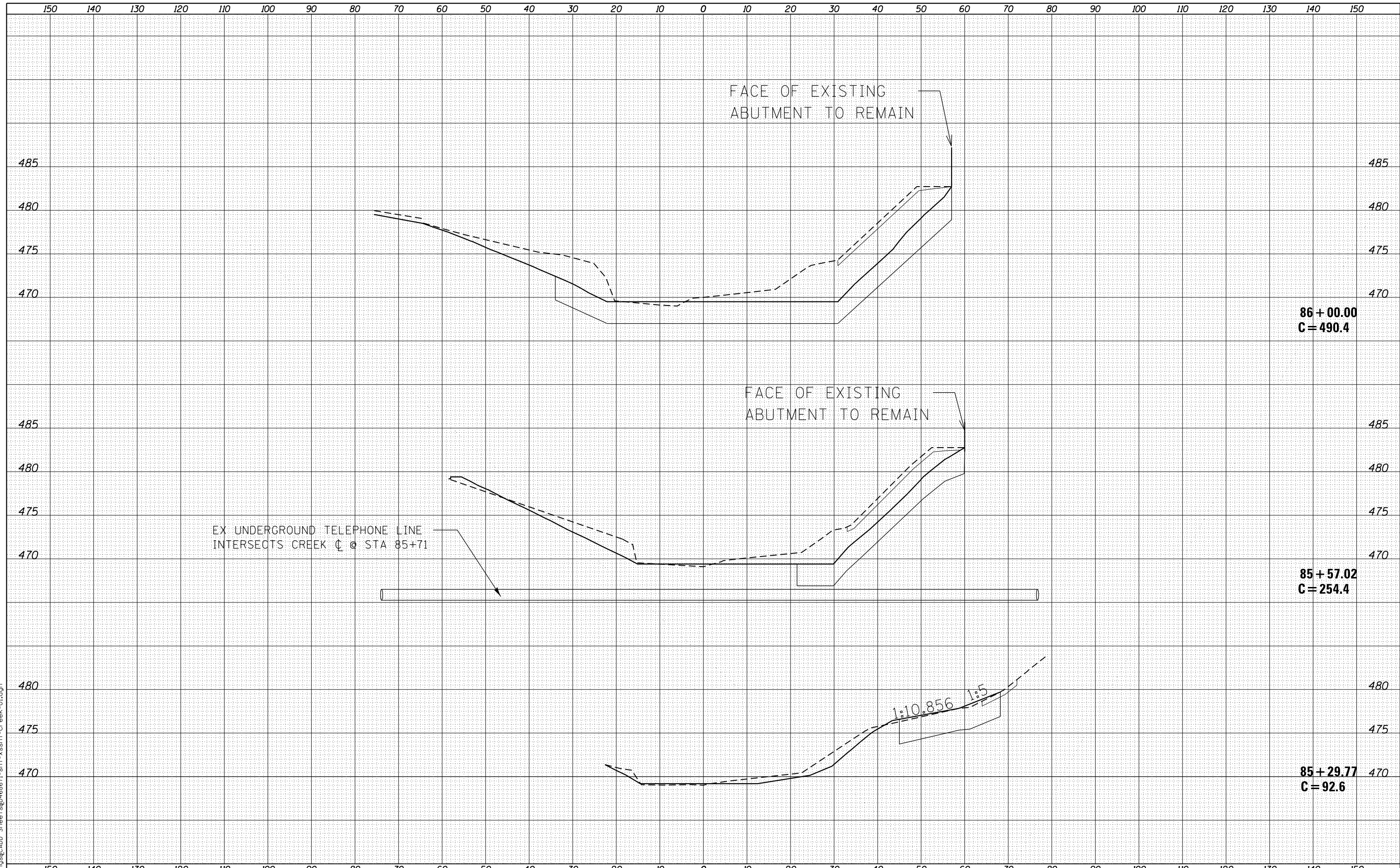
SCALE: SHEET NO. 5 OF 5 SHEETS STA. 319+69.90 TO STA. 320+19.90

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	85
CONTRACT NO. 68671				

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

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

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



USER NAME = WAH	DESIGNED - CL	REVISED -
	DRAWN - WAH	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - KJC/HTL	REVISED -
PLOT DATE = 12/13/2012	DATE - 10/04/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

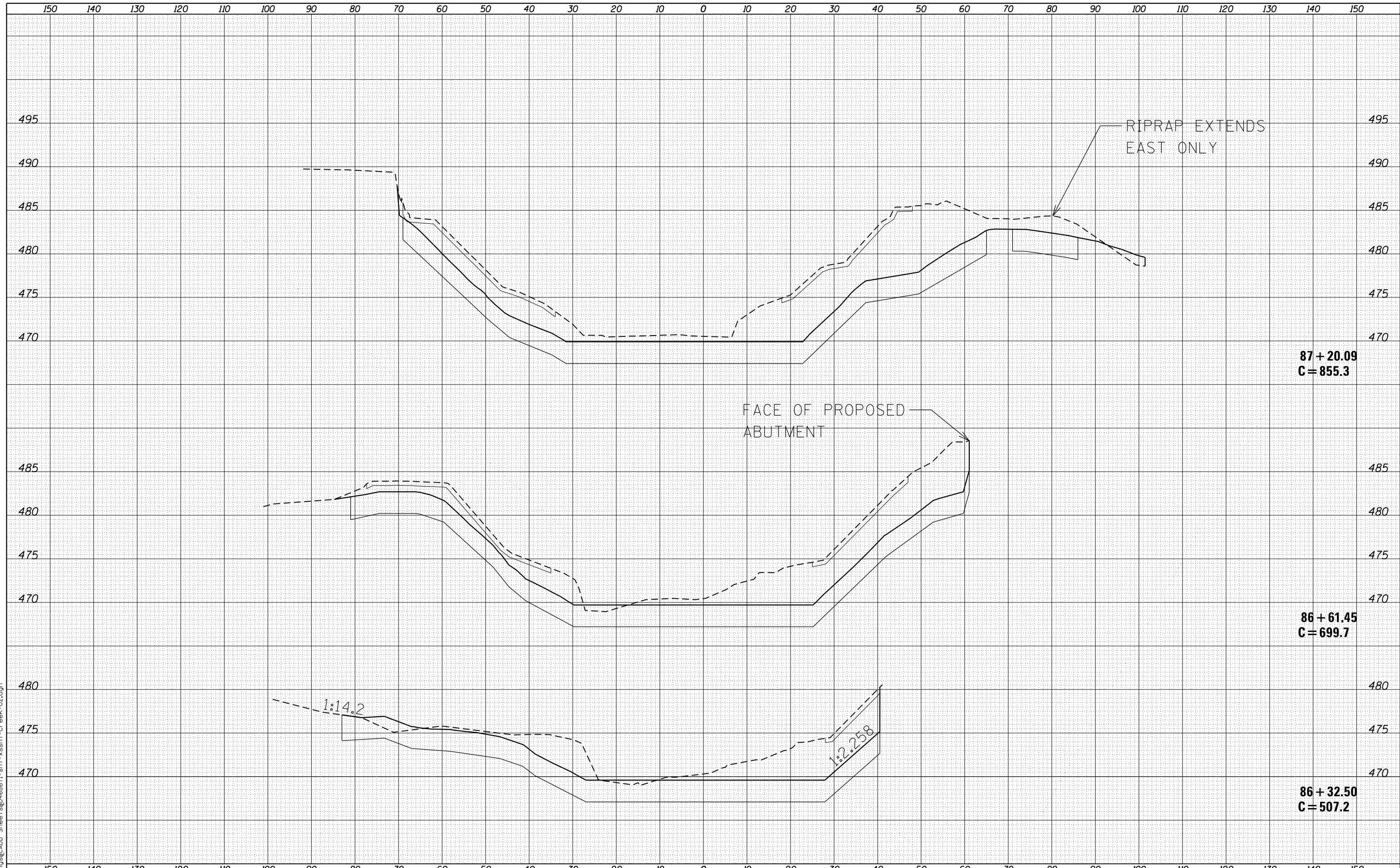
CREEK CROSS SECTIONS	
IL 116 OVER TEN MILE CREEK	
SCALE:	SHEET NO. 1 OF 4 SHEETS
	STA. 85+29.77 TO STA. 86+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	86
CONTRACT NO. 68671				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

Week-Phase I:\Drawings\CADD_Sheets\B468671\STAT-XSSIT-07\FBR-01.dgn

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

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



tek-Phase II@Drawings\CADD_Sheet\86+32.50-87+20.09.dgn



USER NAME = WAH	DESIGNED - CL	REVISED -
	DRAWN - WAH	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - KJC/HTL	REVISED -
PLOT DATE = 12/13/2012	DATE - 10/04/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

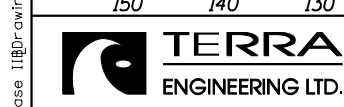
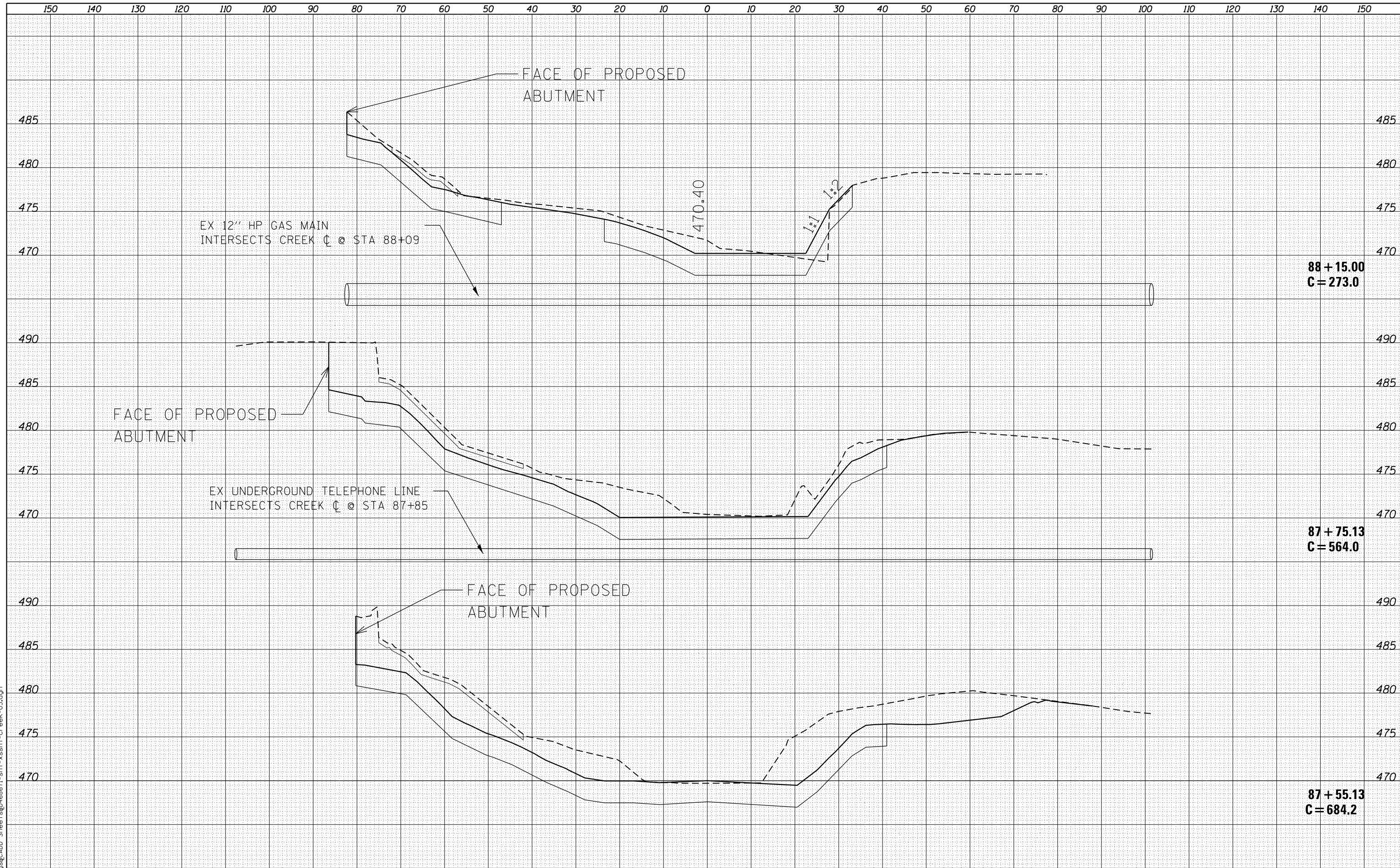
CREEK CROSS SECTIONS
IL 116 OVER TEN MILE CREEK

SCALE: SHEET NO. 2 OF 4 SHEETS STA. 86+32.50 TO STA. 87+20.09

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	87
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT
CONTRACT NO. 68671				

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

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



USER NAME = WAH	DESIGNED - CL	REVISED -
	DRAWN - WAH	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - KJC/HTL	REVISED -
PLOT DATE = 12/13/2012	DATE - 10/04/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CREEK CROSS SECTIONS
IL 116 OVER TEN MILE CREEK

SCALE:	SHEET NO. 3 OF 4 SHEETS	STA. 87+55.13 TO STA. 88+15.00
--------	-------------------------	--------------------------------

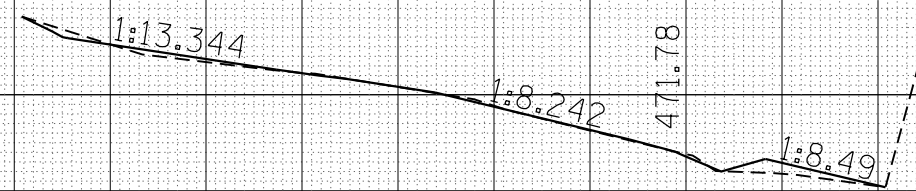
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	88
				CONTRACT NO. 68671
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

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

475



475

88 + 34.00
C = 3.2

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



USER NAME = WAH	DESIGNED - CL	REVISED -
	DRAWN - WAH	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - KJC/HTL	REVISED -
PLOT DATE = 12/13/2012	DATE - 10/04/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CREEK CROSS SECTIONS
IL 116 OVER TEN MILE CREEK

SCALE: SHEET NO. 4 OF 4 SHEETS STA. 88+34.00 TO STA. 88+34.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(102B-1)BR	TAZEWELL	89	89
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68671	

I:\Drawings\CADD_Sheet\88+34.00\116-102B-1\BR-04.dgn