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STAGE CONSTRUCTION PLANS

WIDE LOAD SIGN LOCATION

BRIDGE PLANS

24-33 SCOUR MITIGATION PLANS

334-30 RIR SPEGR DETAIL

STANDARDS

COMMITMENTS

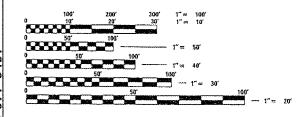
420401-0**5** 630001-0**7** 630301-0**4** 631031-0

635011-01 701306-01 701326--02

704001-07

DESCRIPTION OF WORK

THE PROPOSED IMPROVEMENTS CONSIST OF SCOUR MITIGATION, REMOVAL OF THE EXISTING BRIDGE SUPERSTRUCTURE AND REPLACING WITH PRECAST, PRESTRESSED CONCRETE DECK BEAMS, BITUMINOUS CONRETE WEARING SURFACE AND OTHER APPURTENANT ITEMS OF WORK THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO SATISFACTORILY CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND PROVISIONS STATED HEREIN.



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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 68415

GROSS LENGTH: 136 FT = 0.03 MILES

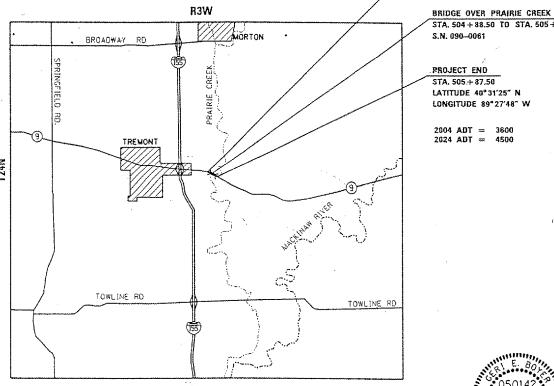
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

FAP ROUTE 693 (IL RTE 9) **SECTION** (119B-3)I PROJECT NO. F-0693 (058) **TAZEWELL COUNTY**

C-94-100-04

DECK BEAM REPLACEMENT



QA/QC BITUMINOUS SUPERPAVE PROJECT

STA, 504 + 51,87 LATITUDE 40°31'26" N LONGITUDE 89° 27'49" W

STA, 504 + 88.50 TO STA, 505 + 51.50

PROJECT END STA, 505 + 87,50 LATITUDE 48° 31'25" N LONGITUDE 89"27'48" W

2004 ADT = 3600 2024 ADT = 4500

> PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

04/23/06 DATE EXPIRES 11-30-2007

GERI E. BOYER, P.E. LICENSE NO. 062-050142

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

593

(1198-3)1

CONTRACT NO. 58415

CATALOG NO. 032903-000

TAZEWELL 33

33+4=3'

GENERAL NOTES

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION, AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

ANY FACILITIES OR APPURTENANCES WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL AND REARRANGE HIS OPERATIONS IN ORDER THAT THE UTILITY'S OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER.

THE ENGINEER AND OWNER FURTHER DO NOT WARRANT THAT ALL UTILITIES HAVE BEEN ILLUSTRATED ON THESE DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING J.U.L.I.E. FOR FIELD VERIFICATION OF ALL UTILITIES ON THE SITE PRIOR WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR OR AGENT, HAVE WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

EVERY TREE SHALL BE SAVED IF POSSIBLE. THE ENGINEER IN THE FIELD WILL VERIFY AND MARK ALL TREES REQUIRED TO BE REMOVED. SHOULD THE ENGINEER'S DECISION INCREASE OR DECREASE THE QUANTITIES OF WORK TO BE PERFORMED FROM THE PLANS, THE CONTRACTOR SHALL ACCEPT PAYMENT AS STATED IN ARTICLE 104.03 OF THE STANDARD SPECIFICATIONS. TREES OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED UNLESS DESIGNATED BY THE ENGINEER.

THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE AREA LOCATED WITHIN THE CONSTRUCTION LIMIT LINES, AS SHOWN PER PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

IT IS INTENDED THAT ANY CULVERTS DAMAGED BY OR REMOVED BY THE CONTRACTOR OTHER THAN THOSE NOTED ON THE PLANS TO BE REMOVED WILL HAVE TO BE REMOVED AND/OR REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.

ALL MATERIALS SUCH AS FRAMES AND GRATES AND STORM SEWER PIPE SCHEDULED FOR REMOVAL, THAT ARE CONSIDERED TO BE SUITABLE FOR FUTURE USE, SHALL BE SALVAGED AND STOCKPILED AS DIRECTED BY THE ENGINEER. ALL OTHER MATERIALS SCHEDULED FOR REMOVAL BUT NOT SALVAGED, SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.

ALL STORM SEWER AND CULVERT PIPE TO BE REMOVED WHICH THE ENGINEER DEEMS FIT FOR RE-USE SHALL BE SALVAGED IN ACCORDANCE WITH ARTICLES 501.02 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL OTHER STORM SEWER AND CULVERT PIPE SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03.

ALL TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

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

NO VIBRATORY ROLLER WILL BE ALLOWED.

ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY ALSO BE OBTAINED BY CALLING J.U.L.I.E. AND FOR NON-J.U.L.I.E. MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

- *ILLINOIS-AMERICAN WATER COMPANY
- *CHARTER COMMUNICATIONS
- *MCLEOD USA
- *AMEREN CILCO/CIPS

(MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY * NONMEMBERS OF J.U.L.I.E. MUST BE NOTIFIED INDIVIDUALLY)

FARM ACCESS

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ALLOW FARMERS AND RESIDENTS ACCESS TO FIELDS AND RESIDENCES DURING VARIOUS STAGES OF CONSTRUCTION IF ACCESS CANNOT BE ATTAINED BY OTHER ROADS.

UTITLIES - LOCATIONS/INFORMATION ON PLANS

UNLESS NOTED OTHERWISE, THE LOCATION 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 INFORMATION AVAILABLE. BUT THEY ARE NOT GUARANTEED. SOME UTILITY LOCATIONS ARE SHOWN AS FUTURE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

BUTT JOINT CUTTING TIME RESTRICTION

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

NAME PLATE RELOCATION

NAME PLATES THAT WILL BE REMOVED AS A RESULT OF THIS WORK SHALL BE RELOCATED ON THE STEEL BRIDGE RAIL, TYPE SM AS DIRECTED BY THE ENGINEER. THE COST OF REMOVING AND REPLACING THE NAME PLATE(S), INCLUDING ALL NECESSARY FASTENERS, WILL NOT BE MEASURED OR PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.

COMMITMENTS:

NONE

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S):	SURFACE
	(1 1/2" LIFT)
AC/PG	PG 64-22
RAP % (MAX)	15%
DESIGN AIR VOIDS	4.2% @ N=50
MIX COMPOSITION	IL 9.5 OR 12.5
(GRADATION MIXTURE)	1 1 3.5 OK 12.5
FRICTION AGG	Mixture D

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN.

GENERAL NOTES - SCOUR MITIGATION

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE (INCLUDING HIGH WATER ELEVATION) HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD 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 THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALL FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

ALL INFORMATION SHOWN IN EACH STRUCTURE'S WATERWAY INFORMATION TABLE WAS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERTING THE WATER FLOW FROM THE CONSTRUCTION AREA OF EACH SITE. THE CONTRACTOR MAY USE EITHER METHOD OF DEWATERING AS DESCRIBED IN THE DEWATERING SPECIAL PROVISION

DURING SITE PREPARATION, AREAS BELOW THE FINAL GRADE SHALL BE BROUGHT TO GRADE BY PLACING COMPACTED LAYERS OF GRANULAR SUBBASE MATERIAL, TYPE C: AREAS OF SOFT OR OTHERWISE UNSUITABLE SUBGRADE SOILS SHALL BE EXCAVATED AND REPLACED WITH COMPACTED LAYERS OF GRANULAR SUBBASE MATERIALS, TYPE C. REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIALS SHALL BE AS DIRECTED BY THE ENGINEER AND WILL BE PAID FOR IN ACCORDANCE TO ARTICLE 109.04 (FORCE ACCOUNT BASIS) OF THE STANDARD SPECIFICATIONS. AN ASSUMED DUANTITY FOR GRANTOR SUBBASE MATERIALS, TYPE C IS INCLUDED AS PART OF EACH STRUCTURE'S MITIGATION DETAILS.

LAYOUT OF SCOUR PROTECTION SYSTEMS MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE GRADED, FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER. SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK.

IT IS ANTICIATED THAT THE MAJORITY OF THE SCOUR WORK WILL NOT REQUIRE HIGHWAY TRAFFIC LANE CLOSURES. WORK WHICH WOULD REQUIRE EXTENDED LANE CLOSURES SHALL BE DONE WHILE 701301 BIS IN USE. OTHERWISE THE CONTRACTOR IS RESTRICTED TO ONE-LANE DAYTIME ONLY CLOSURE IN ACCORDANCE TO IDOT STANDARDS 701301.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	\$1667 MD
693	(119B-3)I	TAZEWELL	33	2
ŞTA.		TO STA.		***************************************
EXIST	ING CONDITIO	NS:		
CONTR	ACT NO. 6841	5	~	

SUGGESTED SEQUENCE OF CONSTRUCTION

- 1. INSTALL DEWATERING SYSTEM AND DIVERT WATER FLOW FROM THE CONSTRUCTION AREA.
- 2, EXCAVATE TO THE LINES, GRADES, CONTOURS, AND DIMENSIONS SHOWN. THE PREPARED AREA SHALL BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE FURTHER WORK CAN TAKE PLACE.
- 3. INSTALL FILTER FABRIC ON THE GRADED SURFACES AS SHOWN ON THE DRAWINGS.
- 4. INSTALL SITE SPECIFIC SCOUR COUNTERMEASURES, SEE DETAIL SHEETS FOR SPECIFIC INSTALLATION PROCEDURES.
- 5. REMOVE DEWATERING SYSTEM. GRADE AND SEED GROUND DISTURBED DURING CONSTRUCTION.

DISPOSITION OF UTILITIES

UTILITY C
Underground Gas A

COMPANY LOCA AmerenCILCO Nort

LOCATION ACTION
North Side of Creek Use Caution

Underground Tel. McLeodUSA 1

16.5' South of Bridge Buried 5' Deep Use Caution

REVISIONS

NAME
DATE

GENERAL NOTES

F.A.P. RTE 693

SECTION (1198-3)I

TAZEWELL COUNTY

SCALE: NONE
DATE: 03/24/2006

DATE: 03/24/2006

REVISIONS

DEPARTMENT OF TRANSPORTATION

TRANSPORTATION

DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

DATE: 03/24/2006

CHECKED BY: AJE

DATE *DATE-TIP *DGN-SPE!

PLOT DATE: *DATE-TIME

SUMMARY OF QUANTITIES

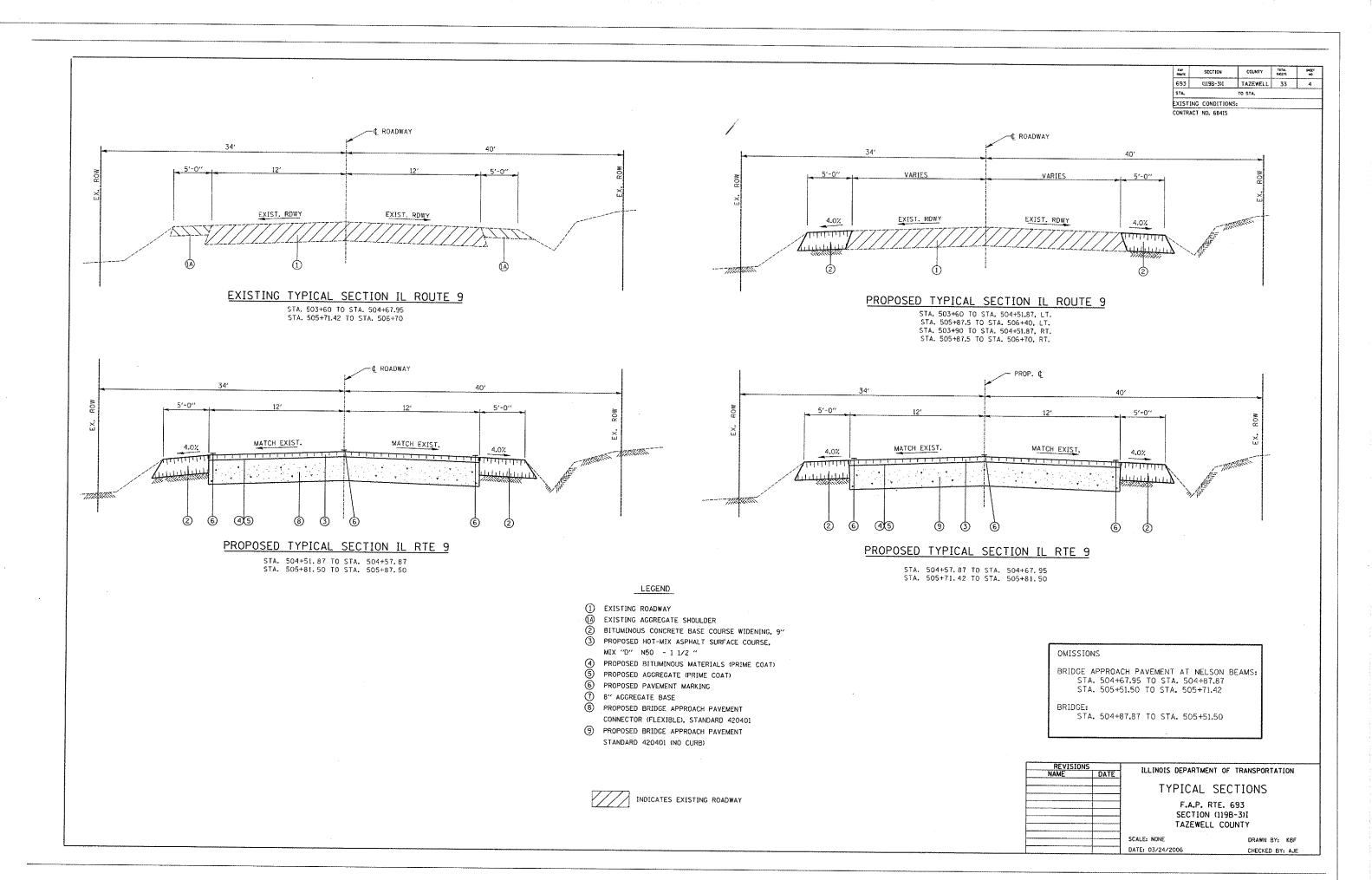
FAP ROUTE	SECTION	COUNTY	213942 213942	SHEET NO
693	(1198-3)[TAZEWELL	34	3
STA.		TO STA.		

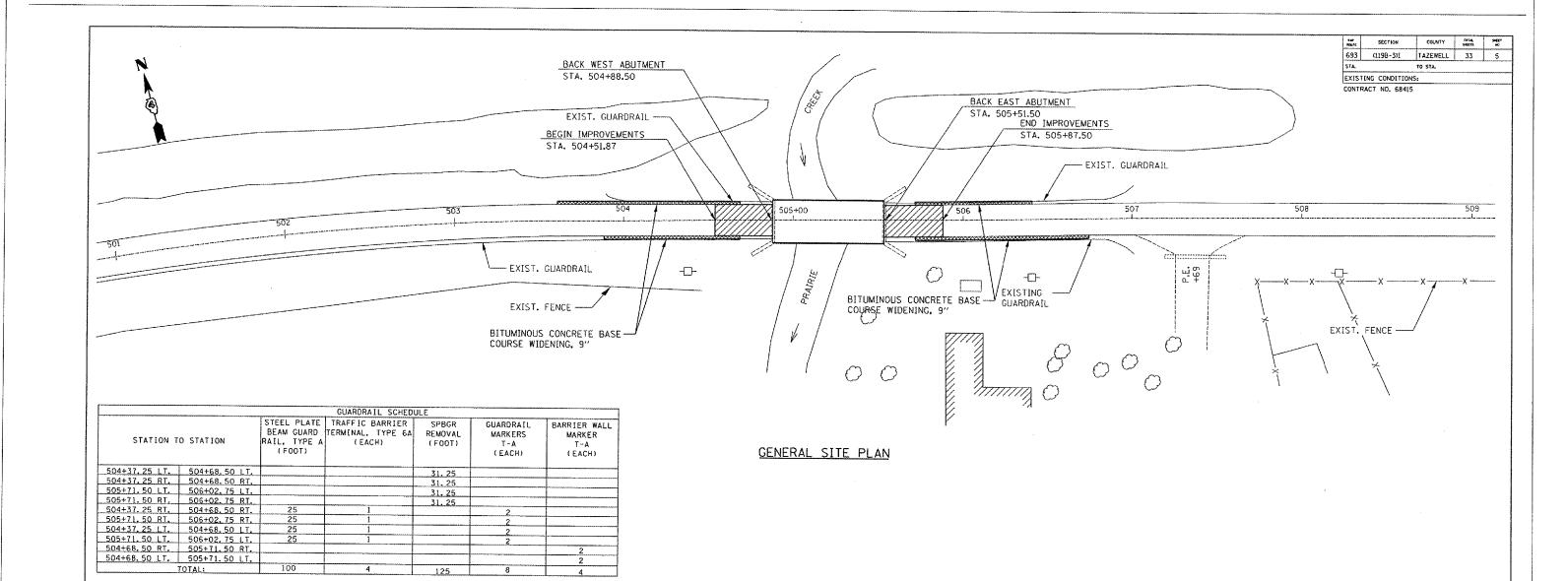
	SUMMARY OF QUANTITIES			C	CONSTRUCTION TYPE CODE		
CODE NO	ITEM STANDARD STANDAR	UNIT	TOTAL QUANTITIES	FED 80% STATE 20%			
20300100	CHANNEL EXCAVATION	CU YD	416	416		<u> </u>	·
25000300	SEEDING, CLASS 3	ACRE	0.03	0.03			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	3	3			
25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	3	3			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	3	3			
25100630	EROSION CONTROL BLANKET	SO YD	138	138			
28100209	STONE RIPRAP, CLASS A5	TON	1685	1685			
28200200	FILTER FABRIC	SQ YD	712	712			
31101900	SUB-BASE GRANULAR MATERIAL, TYPE C	TON	100	100			
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	196	196			
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	35	35			
40600300	AGGREGATE (PRIME COAT)	TON	1	1			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	160	160			
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	60	60			
42001400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD	164	164			
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SO YD	35	35			
44000100	PAVEMENT REMOVAL	SO YD	92	92			
44000700	APPROACH SLAB REMOVAL	SQ YD	107	107			
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1			
50102400	CONCRETE REMOVAL	CU YD	2.4	2. 4			
50300225	CONCRETE STRUCTURES	CU YD	3.4	3. 4			
50400105	PRECAST CONCRETE BRIDGE SLAB	SQ FT	299	299			
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	2,066	2, 066			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	450	450			
50800515	BAR SPLICERS	EACH	8	8			
50901 0\$0	STEEL RAILING. TYPE SM	FOOT	207	207			
51500100	NAME PLATES	EACH	1	1			
52000110	PREFORMED JOINT STRIP SEAL	FOOT	33	33			
58100200	WATERPROOFING MEMBRANE SYSTEM	SO YD	230	230			
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	626	626			
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	100	100			
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4			
63200305	STEEL PLATE BEAM GUARD RAIL REMOVAL	FOOT	125	125			
63300205	REMOVAL AND REINSTALL EXISTING STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	50	50			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4			
67100100	MOBILIZATION	L SUM	1	1			

	SUMMARY OF QUANTITIES	······································		SFTY-ZA	CONSTRUCTION TYPE CODE
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	FED BOX STATE 20%	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	144	144	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3, 107	3, 107	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1.132	1, 132	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	329	329	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	329	329	
78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	1,689	1,689	
78100100	RAISED REFECTIVE PAVEMENT MARKER	EACH	10	10	
78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8	
78200510	BARRIER WALL MARKERS, TYPE A	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	SO FT	473	473	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10	10	To a second seco
X0301852	DEWATERING STRUCTURE NO. 1	EACH	1	1	499
X0322587	CONSTRUCTION ACCESS	EACH	1	1	
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	45.1	45.1	
X7200200	WIDE LOAD SIGNING	L SUM	1	1	
Z0030255	IMPACT ATTENUATORS. TEMPORARY (FULLY REDIRECTIVE: NARROW). TEST LEVEL 2	EACH	2	2	
Z0030320	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 2	EACH	2	2	

*SPECTALTY ITEM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION			
NAME	DATE	ILLIAOIS DE ARTMENT	OF TRANSFORTATION		
····		SUMMARY OF	QUANTITIES		
		F.A.P. RT	E. 693		
		SECTION (119B-3)I		
		TAZEWELL	COUNTY		
		SCALE: NONE	DRAWN BY: KBF		
		DATE: 03/24/2006	CHECKED BY+ A.IE		





PAVING SCHEDULE								
STATION TO STATION		BITUMINOUS MATERIALS PRIME COAT (GALLON)	AGGREGATE PRIME COAT (.TON)	PAVEMENT REMOVAL (SQ. YD.)	HOT-MIX ASPHAL SURFACE COURSE MIX D, N50 (TON)			
504+51.87	504+88.00	17.5	0.5		13.5			
505+52,00	505+87.50	17.5	0.5		13.5			
504+87.87	505+51.50				33			
504+51, 87	505+87.50			92				
TO	TAL:	35	1	92	53			

	PAVEM	ENT MARKING SCH	EDULE			
STATION TO STATION	SHORT TERM PAVEMENT MARKINGS (FOOT)	TEMPORARY PAVEMENT MARKING LINE 4" (FT,)	PAVEMENT MARKING	EPOXY P MARKING (FO	LINE 4"	PAVEMENT MARKING REMOVAL (SQ. FT.
501+51.00 ¢ TO 508+60.00 ¢	144		48		1418	473
501+51.00 RT. TO 508+60.00 RT.		1	236. 3			713
501+51.00 LT. TO 508+60.00 LT.			236. 3			
501+51.00 RT. TO 508+60.00 RT. (STAGE 1 & 2)		1418	236. 3			
501+51.00 LT. TO 508+60.00 LT. (STAGE 1 & 2)		1418	236. 3			***************************************
504+51.87 RT. TO 505+87.50 RT.		135.6	45. 2	135.6		
504+51.87 LT. TO 505+87.50 LT.		135.6	45. 2	135.6		······································
STOP BAR (2 LOCATIONS)			48			***************************************
SUB TOTAL:		3107	1132	271.2	1418	
TOTAL:	144	3107	1132	16		473

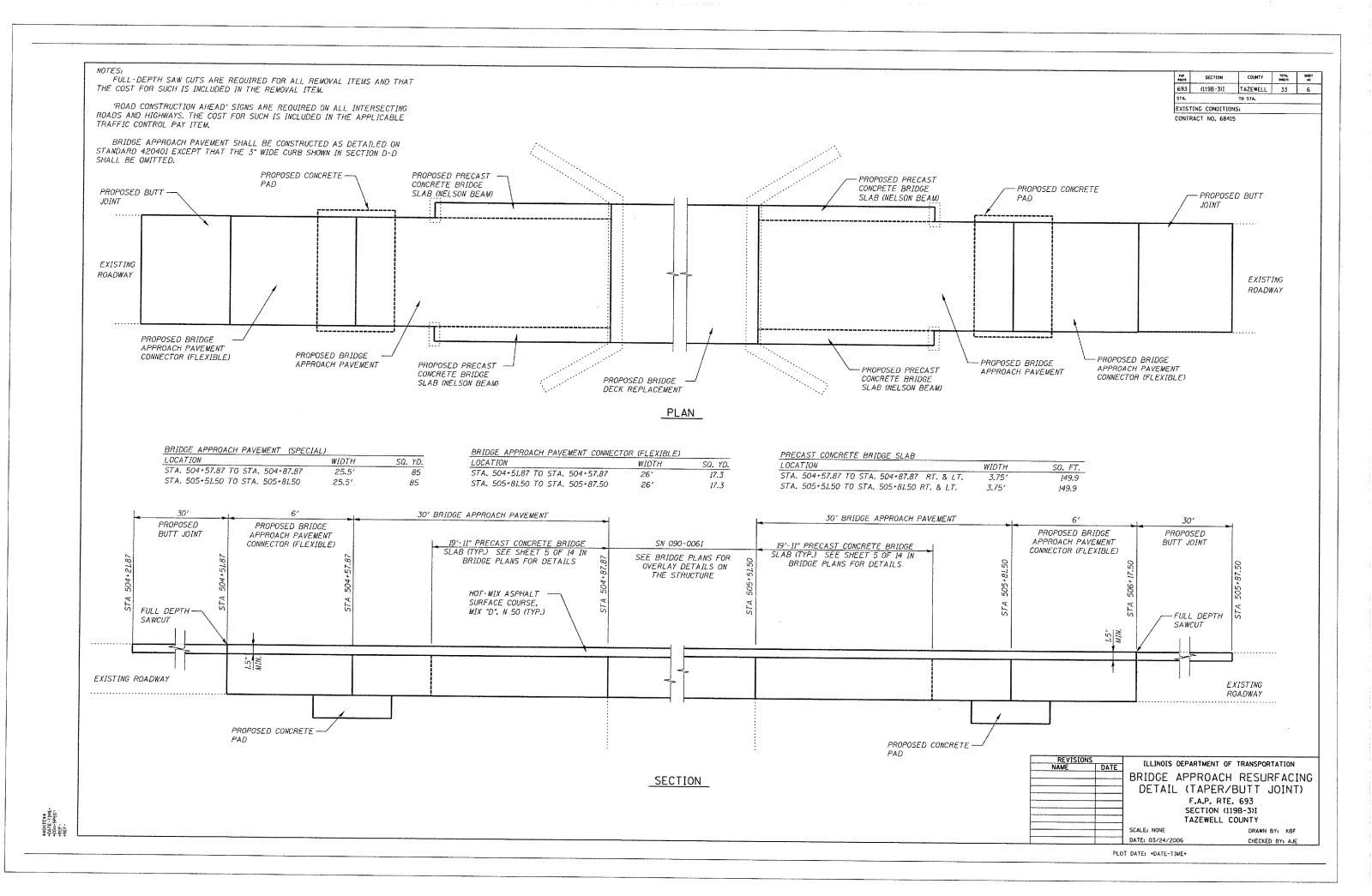
BITUM	IINOUS	BASE COURS	E WID	ENING. 9"
STAT	WIDENING (SO YD)			
503+60.00.	LT.	504+67.95,	LT.	60
505+71.42,		506+40,00.	LT.	38
503+90.00,		504+67.95,	RT.	43
505+71.42.	55			
	196			

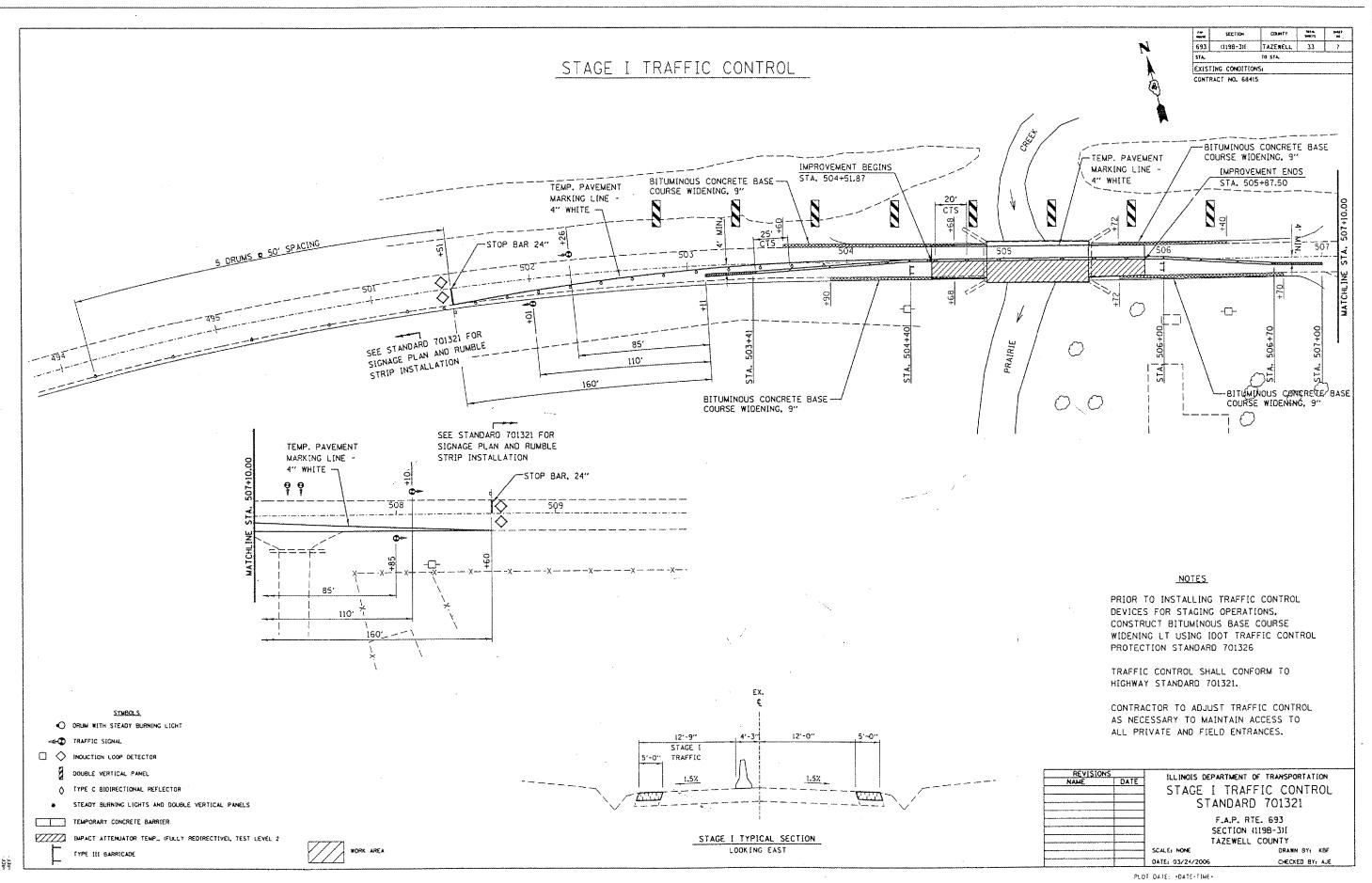
REVISION:	5	ILLINOIS DEPARTMENT OF TRANSPORTATION				
NAME.	DATE	ILLINOIS DEPARTMEN	II OF TRANSPORTATION			
		GENERAL SITE PLAN				
		AND SCI	HEDULES			
	+	F.A.P. RTE. 693				
		SECTION	(1198-3)[
		TAZEWELL	COUNTY			
****		SCALE: NONE	DRAWN BY: KBF			
		DATE: 03/24/2006	CHECKED BY: AJE			

PLOT DATE: *DATE-TIME*

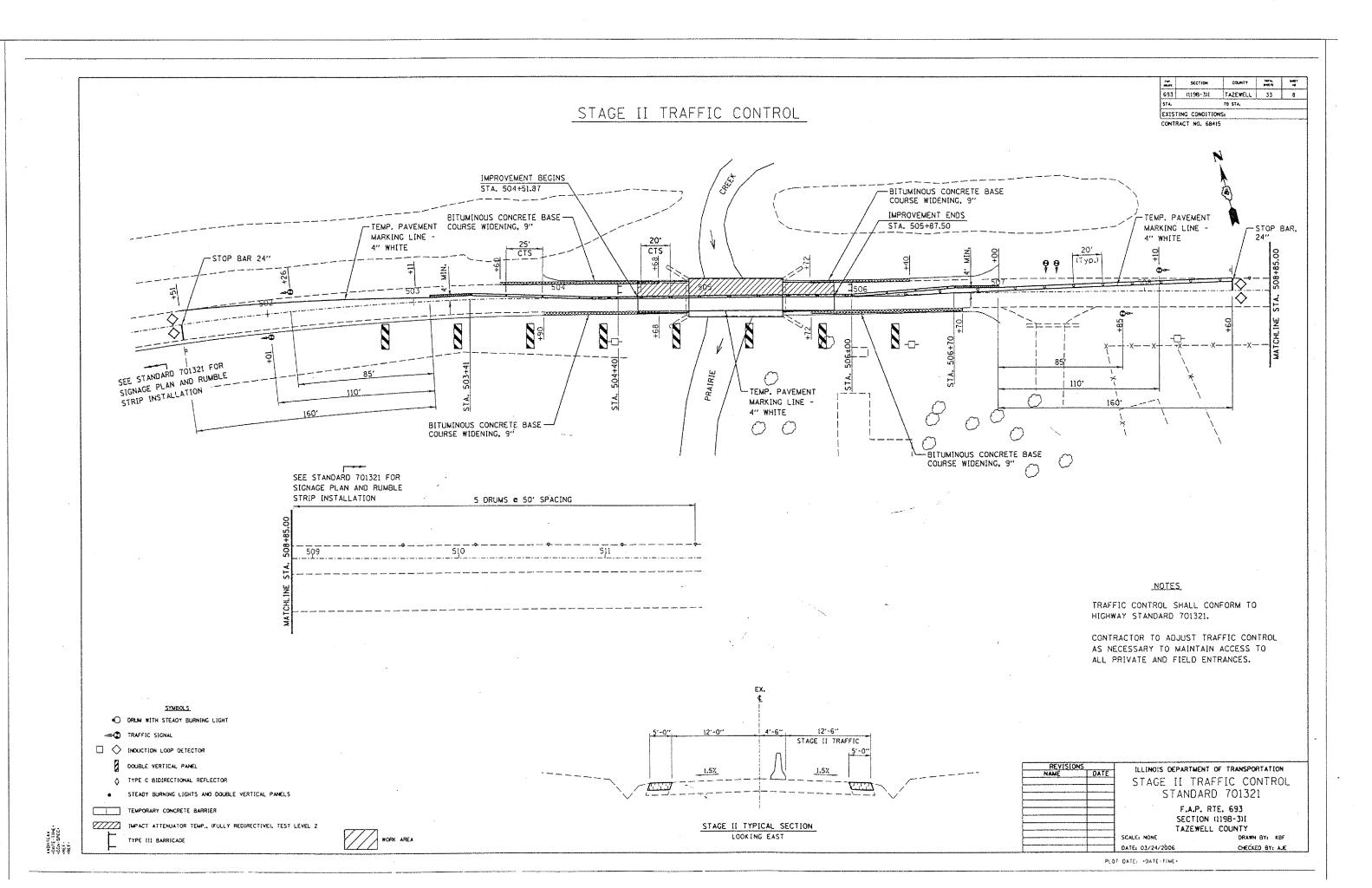
DATE
DATE-TIME
BGN-SPEC

.: 196





SBALE SPECTOR SPECTOR



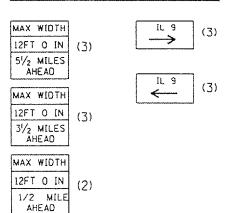


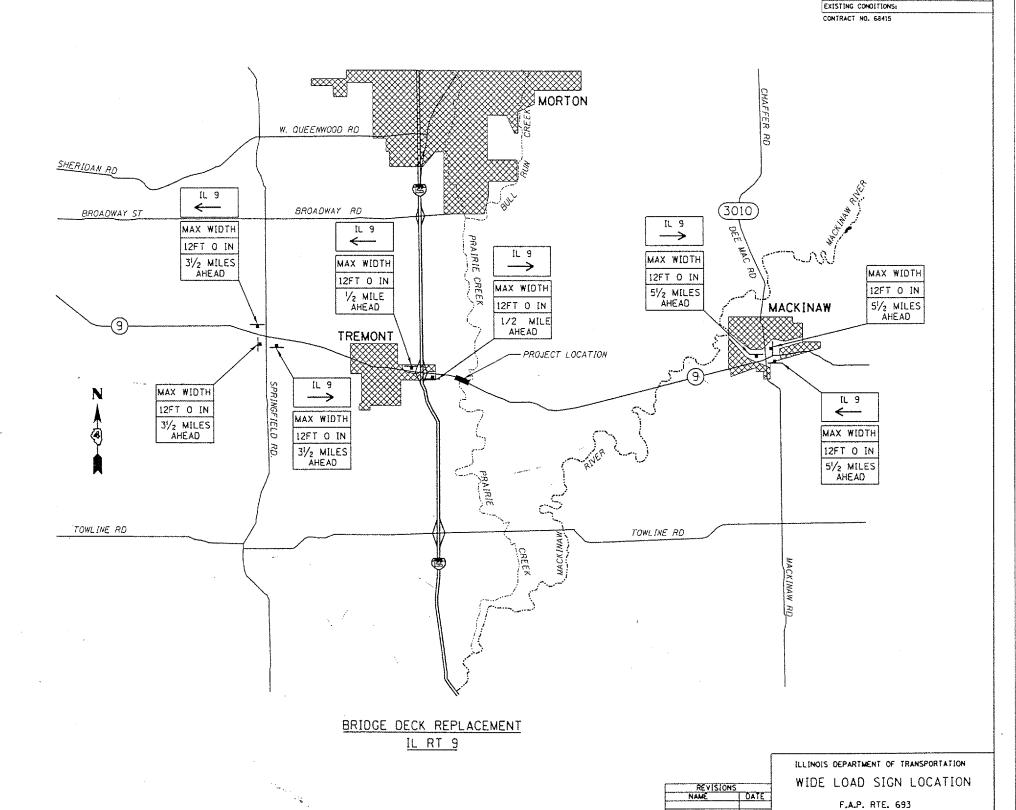
PLAN NOTE BOOK.

es

- 1. All signs required will be supplied to the contractor by I.D.O.T.
- 2. The contractor shall furnish the posts AND erect signs at the locations shown on this sheet, as directed by the R.E./R.T.
 The posts shall remain the property of the contractor.
- The contractor shall give Illinois Department of Transportation, Bureau of Operations two weeks notice for signs. The contractor shall pick up the signs at the T.M. building in Fairview Hgts.. AND return them upon completion of the contract.
- The above noted work shall be paid for at the contract unit price, Lump Sum. for Wide Load Signing AND no other compensation will be allowed.
- 5. Sign spacing will be 400' or to fit field conditions.
- 6. The height to the bottom of the lowest sign shall not be less than 6'

SIGNS REQUIRED





SCALE: NONE

DATE: 03/24/2006

SECTION (1198-3)1 TAZEWELL COUNTY

DRAWN BY: KBF

CHECKED BY: AJE

COUNTY TOTAL SHEET SHEET NO.

693 (1198-3)(TAZEWELL 33 9

TO STA

RTE. SECTION

STA

Bench Mark: Brass Plate on Southeast Wingwall Elev. 100.00

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Existing Structure: S.N. 090-0061 was originally built in 1928 and rebuilt in 1975 as S.B.I. RTE 164, Section 119-8R-3 at Sto. 505+20. The structure consists of simple span PPC-deck beams on closed abutments on pile supported footings. The bk, to bk, abutment length is 63'-0" and the out to out bridge width is 33'-0". The existing superstructure is to be removed and replaced. Staged construction shall be used during construction.

Traffic Barrier Terminal Std. 631032 Type 6A (typ. all four corners) 27" x 36" PPC Deck Beam 30'-0" Bridge Approach Pavement Std. 420401 (typ.) € Brg. W. Abut. € Bra. E. Abut. -Sta. 505+20 -Bk. Exist. East Abut. Bk. Exist. West Abut. Sta. 505+51.50 Sta. 504+88.50 Elev. 100.54 Elev. 98.95 - Precast Concrete C F.A.P Bridge Slab (typ.) Stage Construction Rte. 693 Attach new Name Plate to back side of the 8" rail element. ~Existina Name P 10'2' 61'-6" STATION 505+20 20'-7" 63'-0" Bk. to Bk. Abutments REBUILT 200 BY STATE OF ILLINOIS

Index of Sheets

- Plan and Elevation
- 2. Stage Construction
- Temporary Concrete Barrier and Stage Construction Details
- 4. Superstructure
- 5. Precast Concrete Bridge Slab
- 6. Superstructure Details
- Type SM Steel Bridge Rail Side Mounted
- 8. Bridge Rail Details
- 9. Preformed Joint Strip Seal
- 10. Concrete Removal
- II. West Abutment
- 12. East Abutment
- 13. Substructure Details
- 14. Bor Splicer Assembly Details

DESIGNED	8WP	THOUVENOT,
CHECKEO	ALN	MOERCHEN, INC
ORAWN	8WP	COMPORATE OFFICE 4940 OLD COLLINSVILLE RD. SAMSEA, ILLINOIS 62226
CHECKED	KPC	TEL (6)8) 624-4488 FAX (6)8) 624-6688 E-HAIL; competive-inc.com

LOADING HS20-44 No Allowance for Future Wearing Surface

DESIGN SPECIFICATIONS 2002 AASHTO 17th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 3.500 psi $f_y = 60.000 \text{ psi (reinforcement)}$

PRECAST PRESTRESSED UNITS

f'c = 5.000 psi

f'ci = 4,000 psi

 $f'_s = 270,000 \text{ psi } (\frac{1}{2}\text{ }^{\circ} \text{ } \text{ } \text{Low Relaxation Strands})$

 $f'_{si} = 201.960 \text{ psi } (^{l}_{2}" \phi \text{ Low Relaxation Strands})$

PRECAST CONCRETE BRIDGE SLAB UNITS

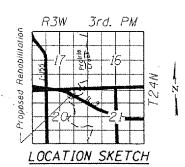
 $f_c' = 4,500 psi$

fy = 60.000 psi (reinforcement)

F.A.P. RT. 693 SEC. (119B-3)1 LOADING HS-20 STR. NO. 090-0061

NAME PLATE See Std. 515001

Existing Name Plate shall be cleaned and relocated adjacent to new Name Place, Cost included with Name Plates.





POLITE HO.	POLITE HO. SECTION		. SECTION COLANY TOTAL STATES				<u> च्यूर</u> ा	SHEET NO.		
F.A.P. 693	(1198) - 3)[TAZEWELL		33	Ю	14	SHEETS			
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Contract # 68415

GENERAL NOTES

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. [t shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

The top surface of the beams shall be finished according to Article 504.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of $\frac{1}{4}$ ".

All construction joints shall be banded.

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

The minimum thickness of the Bituminous overlay shall be 2" and - " varies as required to adjust for the new profile grade and beam comber.

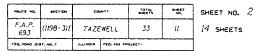
The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractors responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

If the contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on new beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new beams. To distribute load to multiple beams and protect the concrete, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. Prior to placement of the timber mats the following shall be done: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys. A temporary means of lateral restraint will be required for fascia beams at expansion ends of beams to prevent movement of the beams.

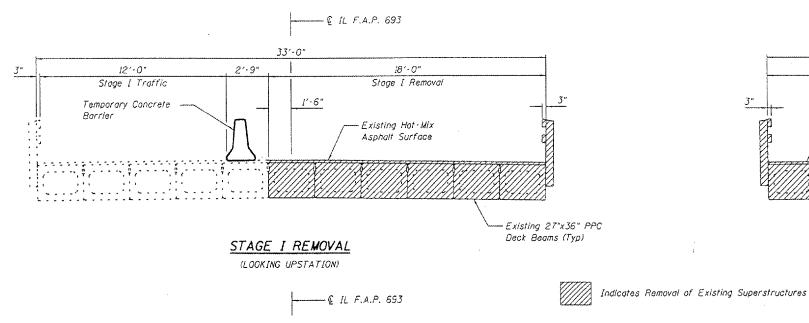
TOTAL BILL OF MATERIAL

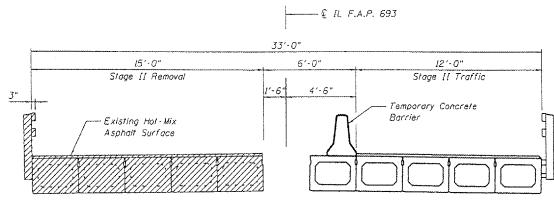
ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1		1
Cancrete Removal	Cu. Yd.		2.4	2.4
Preformed Joint Strip Seal	Foot	33		33
Concrete Structures	Cu. Yd.		3.4	3.4
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	45.1		45.1
Precast Concrete Bridge Slab	Sq. Ft.	299		299
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. F1.	2066		2066
Reinforcement Bars, Epoxy Coated	Pound		450	450
Steel Railing, Type SM	Foot	207		207
Name Plates	Each	- 1		1
Waterproofing Membrane System	Sq. Yd.	230		230
PC Mortar Fairing Course	Foot	626		626
Hot-Mix AsphaltSurface Course, Mix "D", N50	Ton	33.1		33.1
Bar Splicers	Each		8	8

PLAN AND ELEVATION ILLINOIS ROUTE 9 OVER PRAIRIE CREEK F.A.P. ROUTE 693 SECTION (119B-3)I TAZEWELL COUNTY SN 090-0061



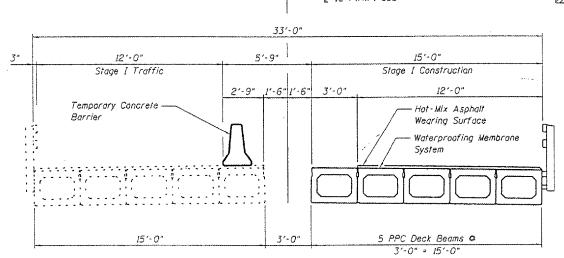


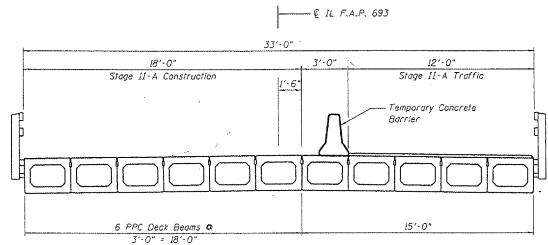




STAGE II REMOVAL

(LOOKING UPSTATION)

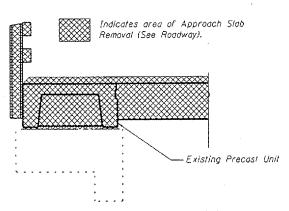




STAGE II-A CONSTRUCTION

STAGE I CONSTRUCTION

(LOOKING UPSTATION)



(LOOKING UPSTATION)

---- € IL F.A.P. 693 Stage II·B Traffic Stage II-B Construction Hot-Mix Asphalt -Wearing Surface Waterproofing Membrane

For details of Temporary Concrete Barrier and limits of Waterproofing Membrane System. see Sheel 3 of 14.

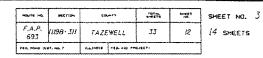
THOUVENOT.
WADE &
MOERCHEN, INC. DESIGNED BWP CHECKED ALN TWW COMPRETE OFFICE
4940 OLD COLLINSVILLE RO.
59405CA. RLIDAIS 52226
TEL ISIBI 524-488
FAI ISIBI 524-688
E-MAIL: corpet-we-inc.com DRAWN BWP CHECKED KPC

TYPICAL APPROACH REMOVAL SECTION

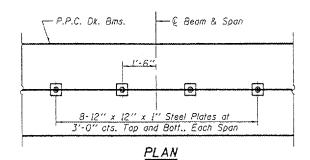
STAGE II-B CONSTRUCTION

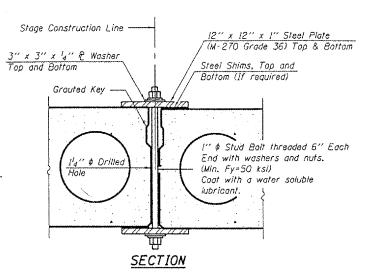
(LOOKING UPSTATION)

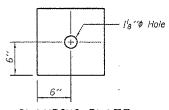
STAGE CONSTRUCTION ILLINOIS ROUTE 9 OVER PRAIRIE CREEK F.A.P. ROUTE 693 SECTION (119B-3)I TAZEWELL COUNTY SN 090-0061



Contract #68415





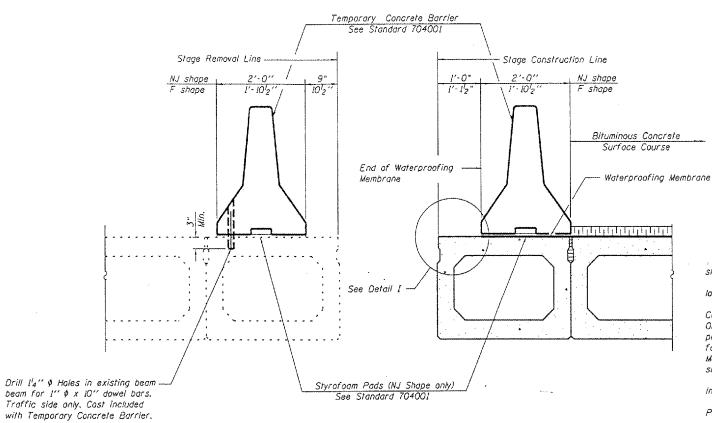


CLAMPING PLATE

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

See Art. 504:06(d) of the Standard Specifications for Stage Construction of Precast Prestressed Concrete Deck Beams. Cost included with Precast Prestressed Concrete Deck Beams (27" Depth). See Stage Construction Details for traffic lanes.

> TEMPORARY CONCRETE BARRIER AND STAGE CONSTRUCTION DETAILS ILLINOIS ROUTE 9 OVER PRAIRIE CREEK F.A.P. ROUTE 693 SECTION (119B-3)I TAZEWELL COUNTY SN 090-0061



NOTES

The I" ϕ high strength bolts used to connect the wood blocks shall be tightened to a snug fit without crushing the wood block. The wing type threaded insert assembly shall be spaced 6'-0" longitudinally.

The Waterproofing Membrane shall extend under the Temporary Concrete Barrier without the asphalt sand seal protection layer. Once the Temporary Concrete Barrier has been removed, and the penetrating primer, coal tar emulsion, coal tar emulsion and fiberglass fabric, and coal tar emulsion slurry layers of the Waterproofing Membrane is lapped 6", the asphalt sand seal protection layer shall be applied according to Article 581 of the Standard Specifications.

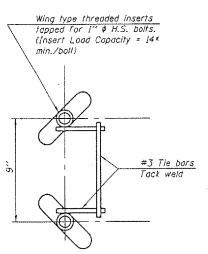
The cost for H.S. bolts, flat headed washers, and wood block is included with Temporary Concrete Barrier.

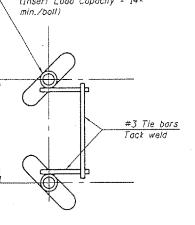
The cost for wing type threaded inserts is included with Precast Prestressed Concrete Deck Beams (27" Depth).

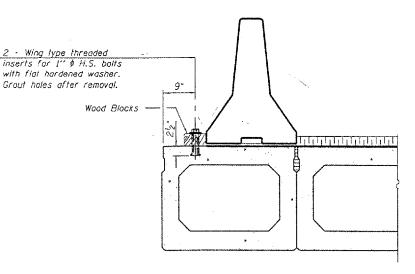
EXISTING PPC DECK BEAMS

NEW PPC DECK BEAMS

SECTIONS THRU PPC DECK BEAMS





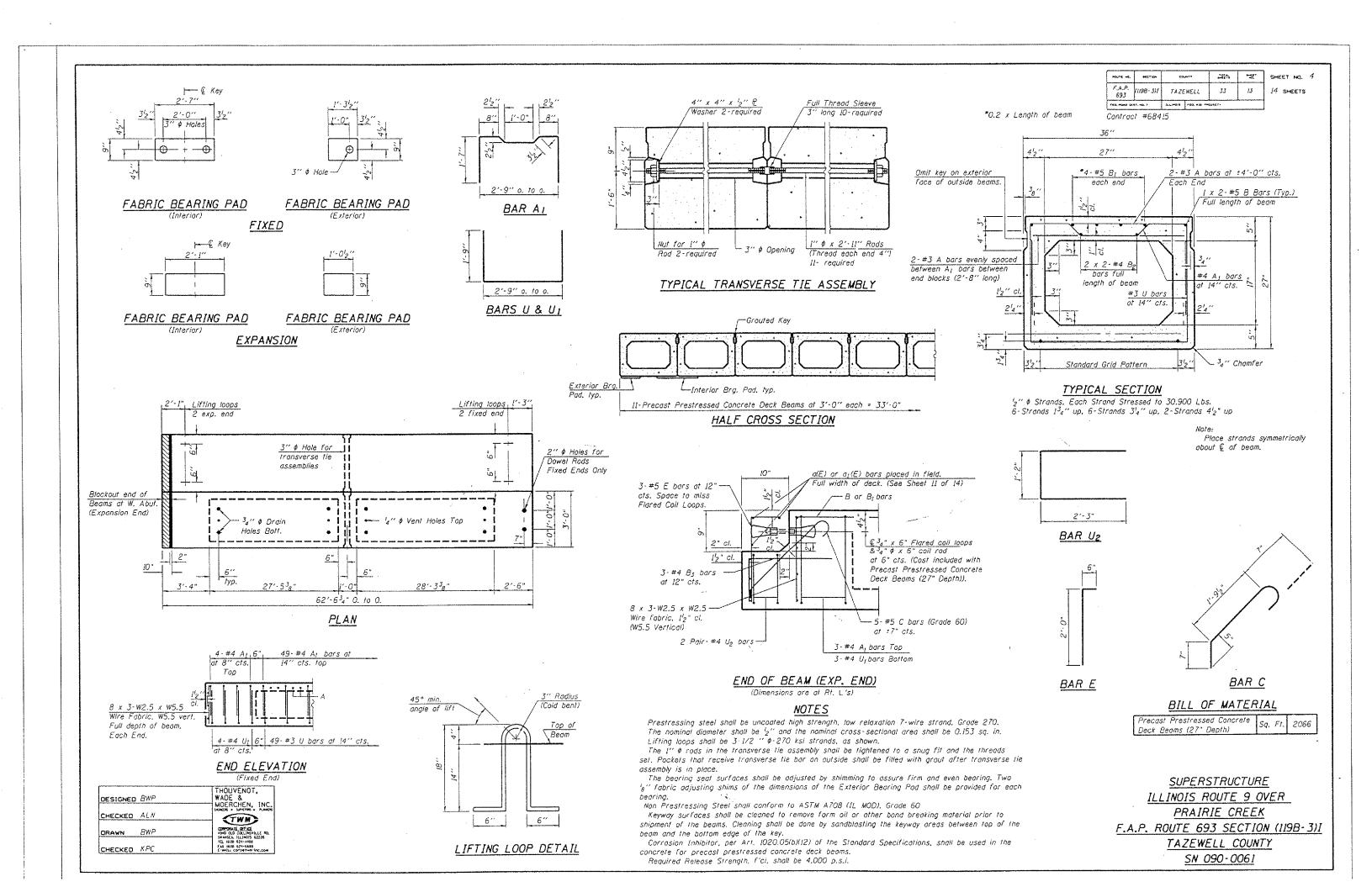


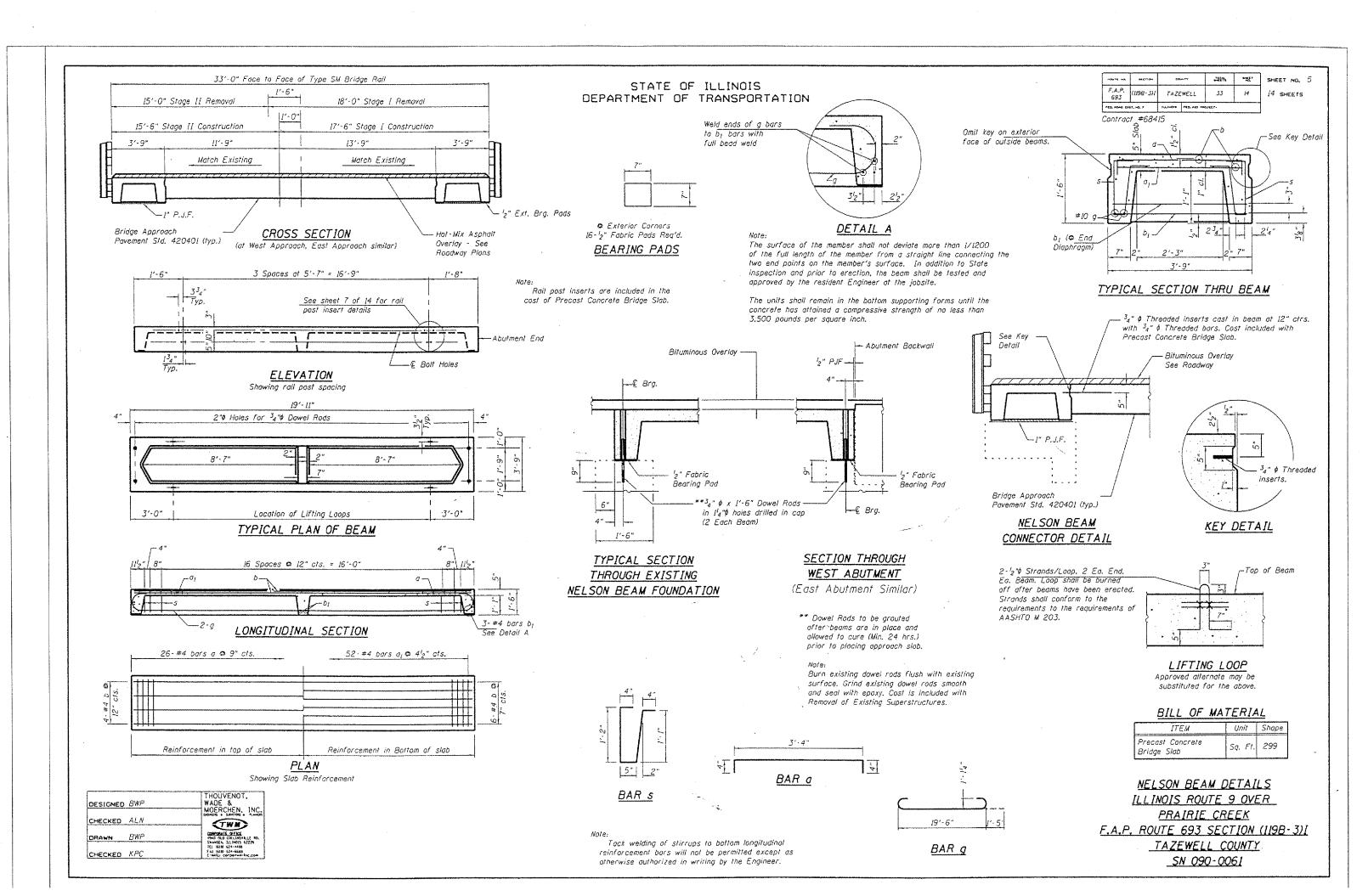
INSERT DETAIL

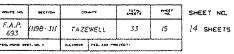
DETAIL I

The Temporary Concrete Barrier and wood blocks shall not be removed until Stage II Construction PPC Deck Beams have been placed and shear keys grouted.

THOUVENOT, WADE & MOERCHEN, INC. DESIGNED BWP CHECKED ALN TWW COMPOSATE OFFICE 4940 OLD COLLINGVILLE RO. 58M5EA, RLINDIS 62226 TEL (61818 624-4488 FAX (61818 624-4588 E-MAIL: COPPOST WAS MICCOM DRAWN BWP CHECKED KPC

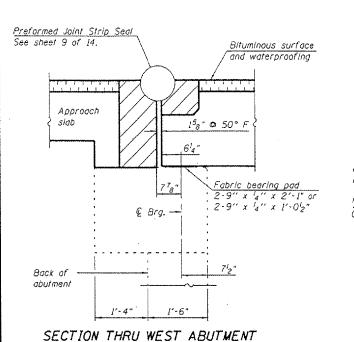


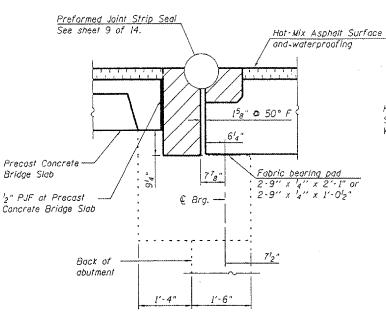




Contract #68415

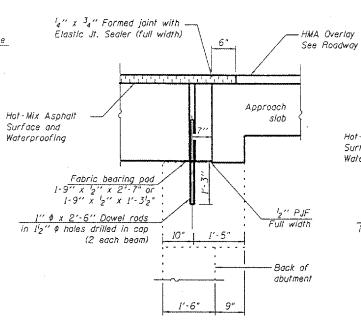
14" x 34" Formed joint with



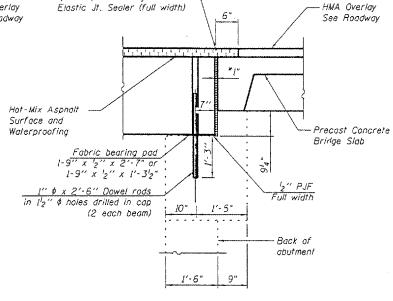


SECTION THRU WEST ABUTMENT

(At outside precast unit)



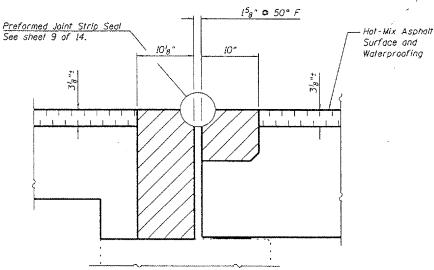
SECTION THRU EAST ABUTMENT



SECTION THRU EAST ABUTMENT

(At outside precast unit)

* I" joint shall be filled with non-shrink grout.
I" dimension may vary to accomodate tolerance in beam lengths.



Bituminous Surface Detail
(Al West Abutment)

Notes :

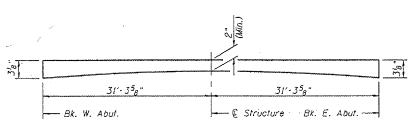
Ends of beams shall be aligned at the expansion joint. Any lineal variation in the beam lengths shall be placed at the fixed joint.

After beams have been erected, temporary retainers shall be installed, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys. Hatched area to be poured after beams are in place and keyways grouted and cured. Quantity included with Concrete Structures on

Sheet II of 14.

Dowel rods drilled in cap are included in the cost of Precast Prestressed Concrete Deck Beams (27" Depth).

All horizontal dimensions are at right angles to beam ends. See sheet 4 of 14 for bearing pad details.



HOT-MIX ASPHALT WEARING SURFACE PROFILE

DESIGNED	8wP	THOUVENOT. WADE &
CHECKED	ALN	MOERCHEN, INC.
ORAWN	8wP	1940 OLD COLLINSVILLE NO.
CHECKED	KPC	F-MARSEA, ILLIMOIS 82276 FEX (618) 624-1488 FAX (618) 624-6688 F-MARL COMPRESSION.COM

SUPERSTRUCTURE DETAILS

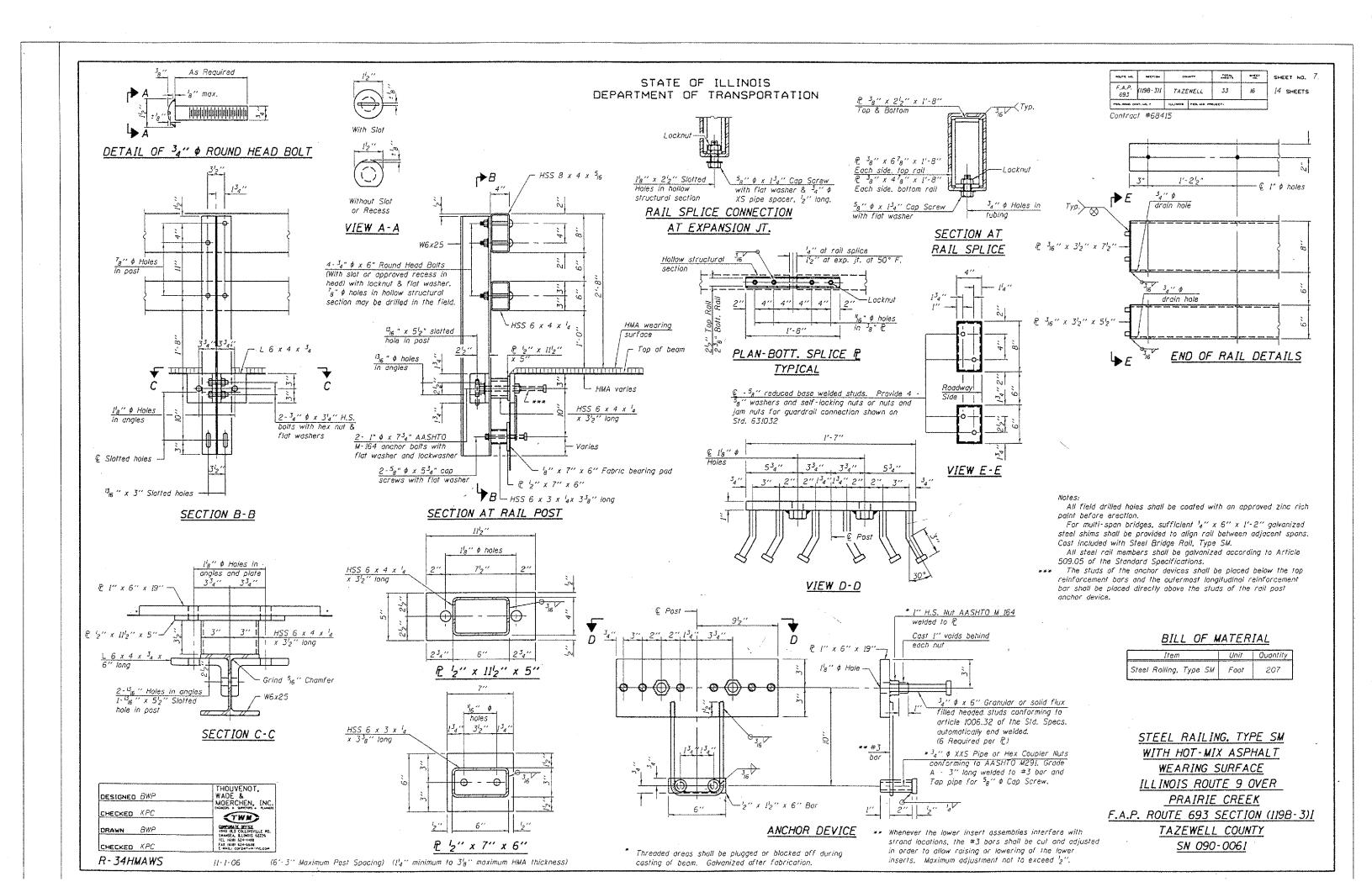
ILLINOIS ROUTE 9 OVER

PRAIRIE CREEK

F.A.P. ROUTE 693 SECTION (119B-3)I

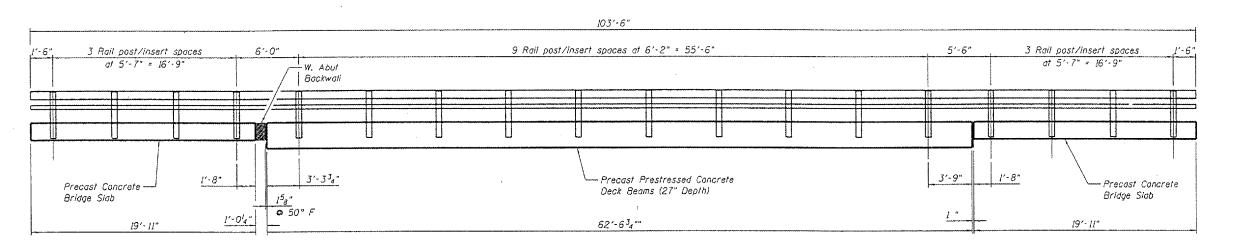
TAZEWELL COUNTY

SN 090-0061



~~11 ~~	HC710	COLANTY	12,54	neggr	SHEET NO. 8
F.A.P. 693	(1198-3)[TAZEWELL	33	17	14 SHEETS
*(0. ~0~0 01	47. 140. 7		-0/607-		1

Cantract #68415



RAIL POST SPACING

(Looking North)

BRIDGE RAIL DETAILS

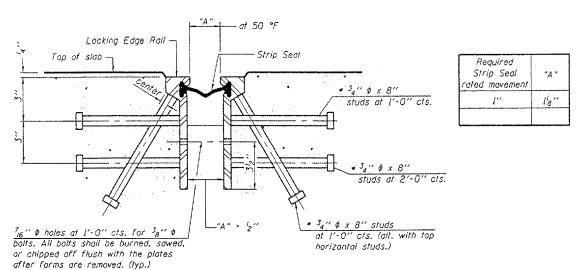
ILLINOIS ROUTE 9 OVER

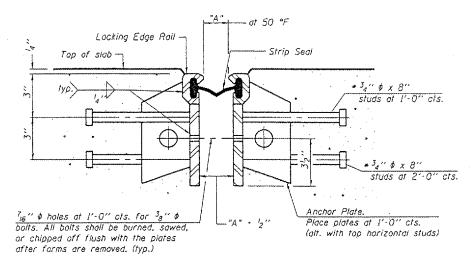
PRAIRIE CREEK

F.A.P. ROUTE 693 SECTION (119B-3)I

TAZEWELL COUNTY

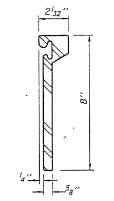
SN 090-0061

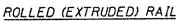


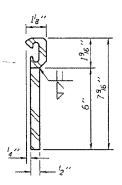


SECTION THRU WELDED RAIL EXP. JOINT

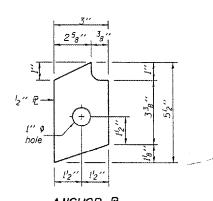
(54 Studs Required-Stage I, 46 Studs Required-Stage II) (34 Anchor Plates Required-Stage I), (28 Anchor Plates Required-Stage II)







WELDED RAIL

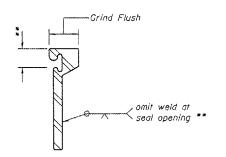


ANCHOR P (for welded rail,

LOCKING EDGE RAILS

* Granular or solid flux filled headed studs conforming to

Article 1006.32 of the Std. Specs., automatically end welded.



SECTION THRU ROLLED RAIL EXP. JOINT

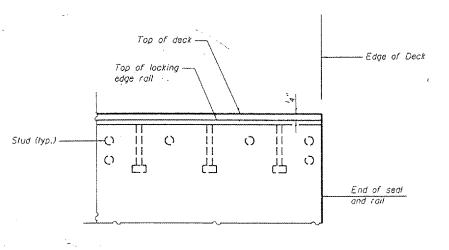
(88 Studs Required-Stage I)

(74 Studs Required-Stage II)

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

DESIGNED	8WP	THOUVENOT.
CHECKED	ALN	MOERCHEN, INC
DRAWN	BWP	1940 OLD COLLINSVILLE NO.
CHECKED	KPC	SHANGEN, ILLINOIS 62226 TEL 16181 624-4488 FAX 16181 624-5688 E-MARL concentration.com



END TREATMENT ELEVATION

(Showing Rolled Roll, Welded Roll Similar)

P-EET F.A.P. (1198-3)(33 18 14 SHEETS TAZEWELL FEG. MONG DIRT, NG. 7 ILLIMOTE FEG. NIG PROJECT

Contract # 68415

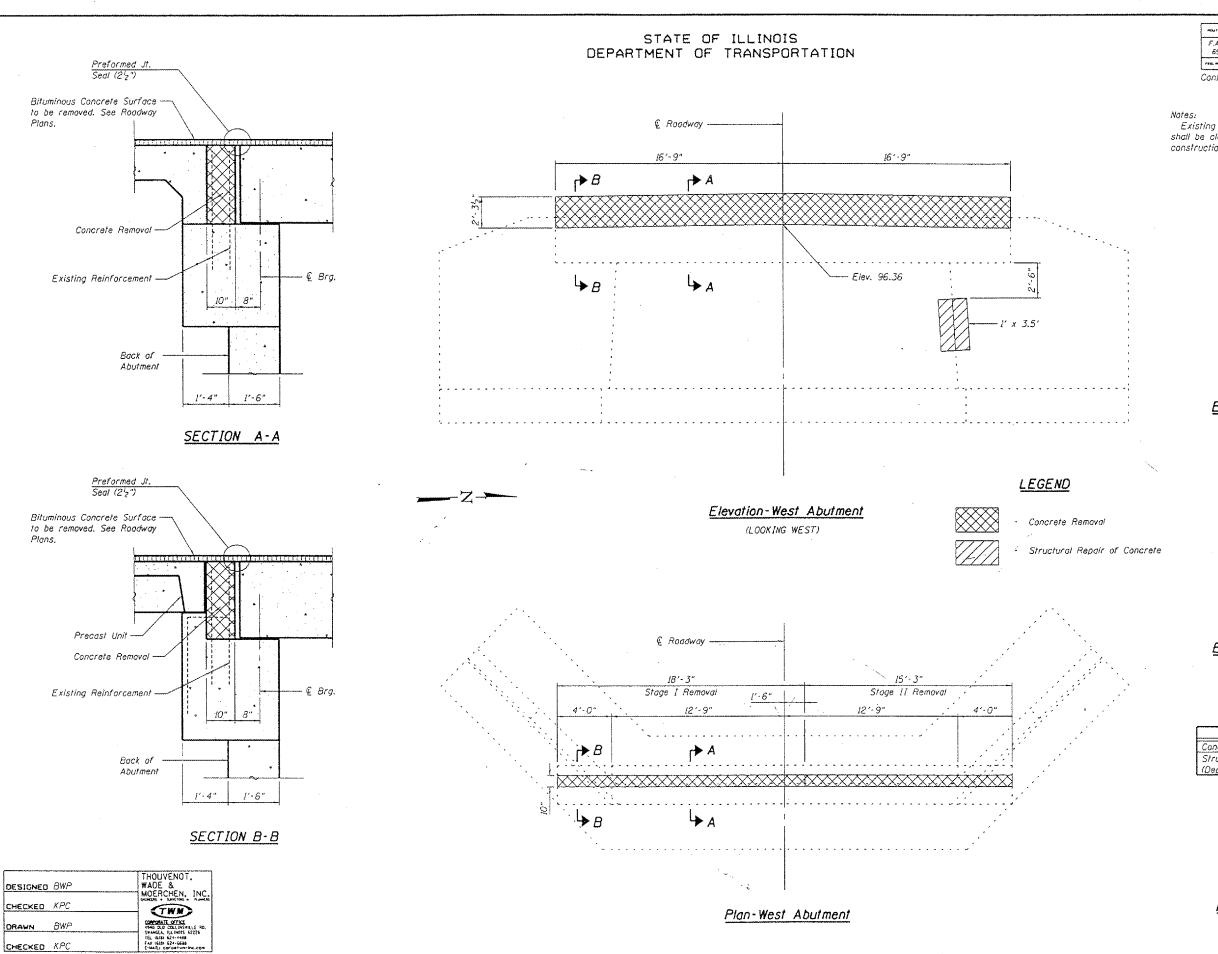
GENERAL NOTES
The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications

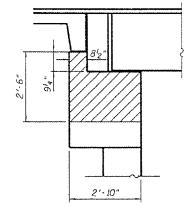
PREFORMED JOINT STRIP SEAL ILLINOIS ROUTE 9 OVER PRAIRIE CREEK F.A.P. ROUTE 693 SECTION (119B-3)1 TAZEWELL COUNTY SN 090-0061



MOUTE NO.	\$4CT10++	600	MTY	12674	*******	SHE	ET NO.	10
F.A.P. 693	119-BR-3	TAZE	WELL	33	19	14	SHEETS	
/RG. MONO 011	RT, NOL P	SLL POIN	7 (I), ALD 7***	5/457				

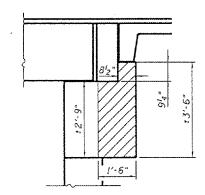
Contract #68415

Existing reinforcement extending into removal areas shall be cleaned, straightened, and incorporated into new construction. Cost included with Concrete Removal.



ELEVATION-WEST ABUTMENT CAP

(LOOKING NORTH)



ELEVATION-WEST ABUTMENT CAP

(LOOKING SQUTH)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	2.4
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	13.6

WEST ABUTMENT

CONCRETE REMOVAL AND REPAIR

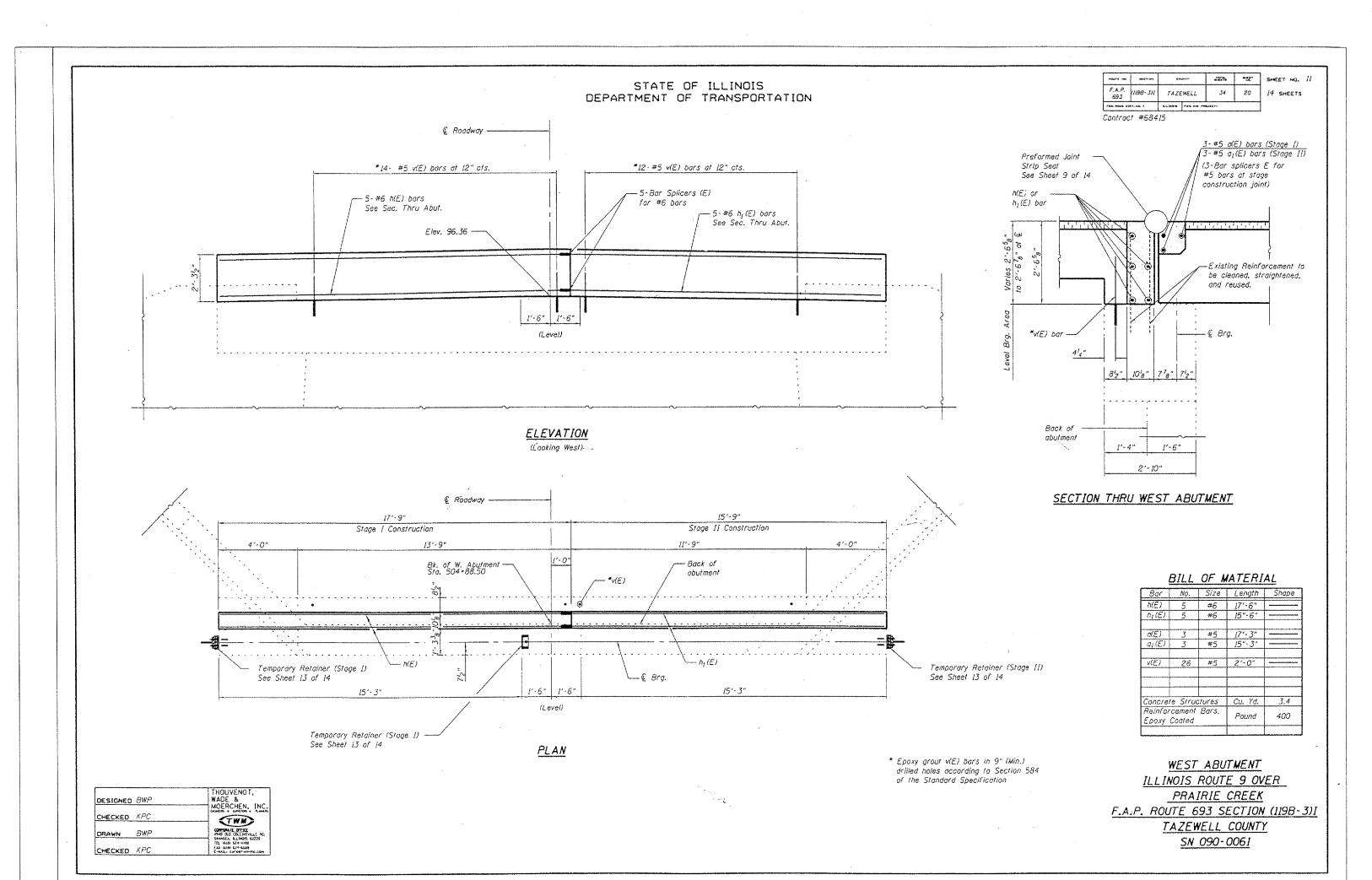
[LLINOIS ROUTE 9 OVER

PRAIRIE CREEK

F.A.P. ROUTE 693 SECTION (1198-3)I

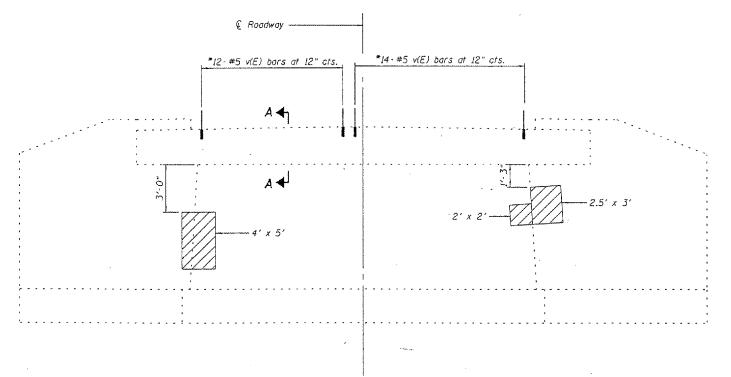
TAZEWELL COUNTY

SN 090-0061



moute ma.	MECTION	COLIMPY	707 N.	** <u>*</u>	SHEET NO.	12
F.A.P. 693	(1198-3)(TAZEWELL	33	21	14 SH€ETS	
*EO. PO-O GI	r. 140. 7	NAMES PED, AID AM	91651-			

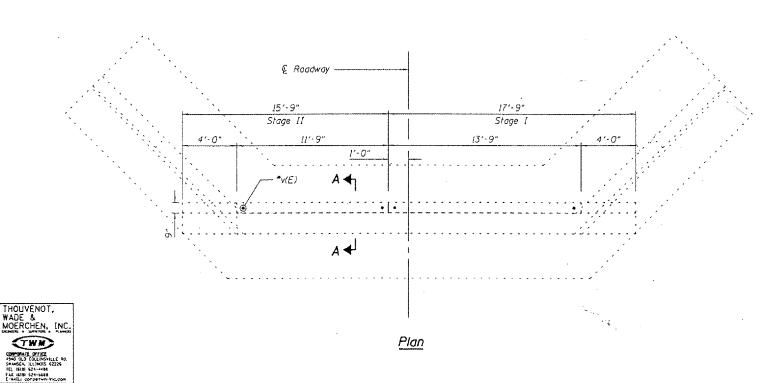
Contract #



<u>LEGEND</u>

Elevation - East Abutment
(LOOKING EAST)

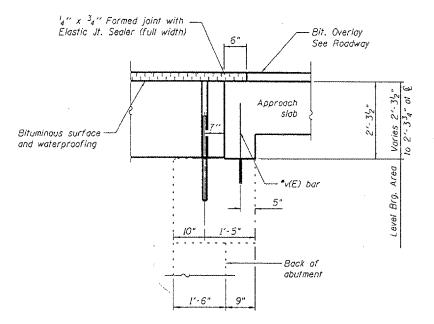
- Structural Repair of Concrete



DESIGNED BWP

CHECKED KPC

CHECKED KPC



SECTION A-A

* Epoxy grout v(E) bars in 9" (Min.) drilled holes according to Section 584 of the Standard Specification

BILL OF MATERIAL

8ar	No.	Size	Length	Shape
v(E)	26	#5	2'-0"	
0-1-6-	rcement		·	
	Coated	Bars.	Pound	50
		pair of Concrete to or Less Than 5")	Sq. Ft.	31.5

EAST ABUTMENT

CONCRETE REPAIR

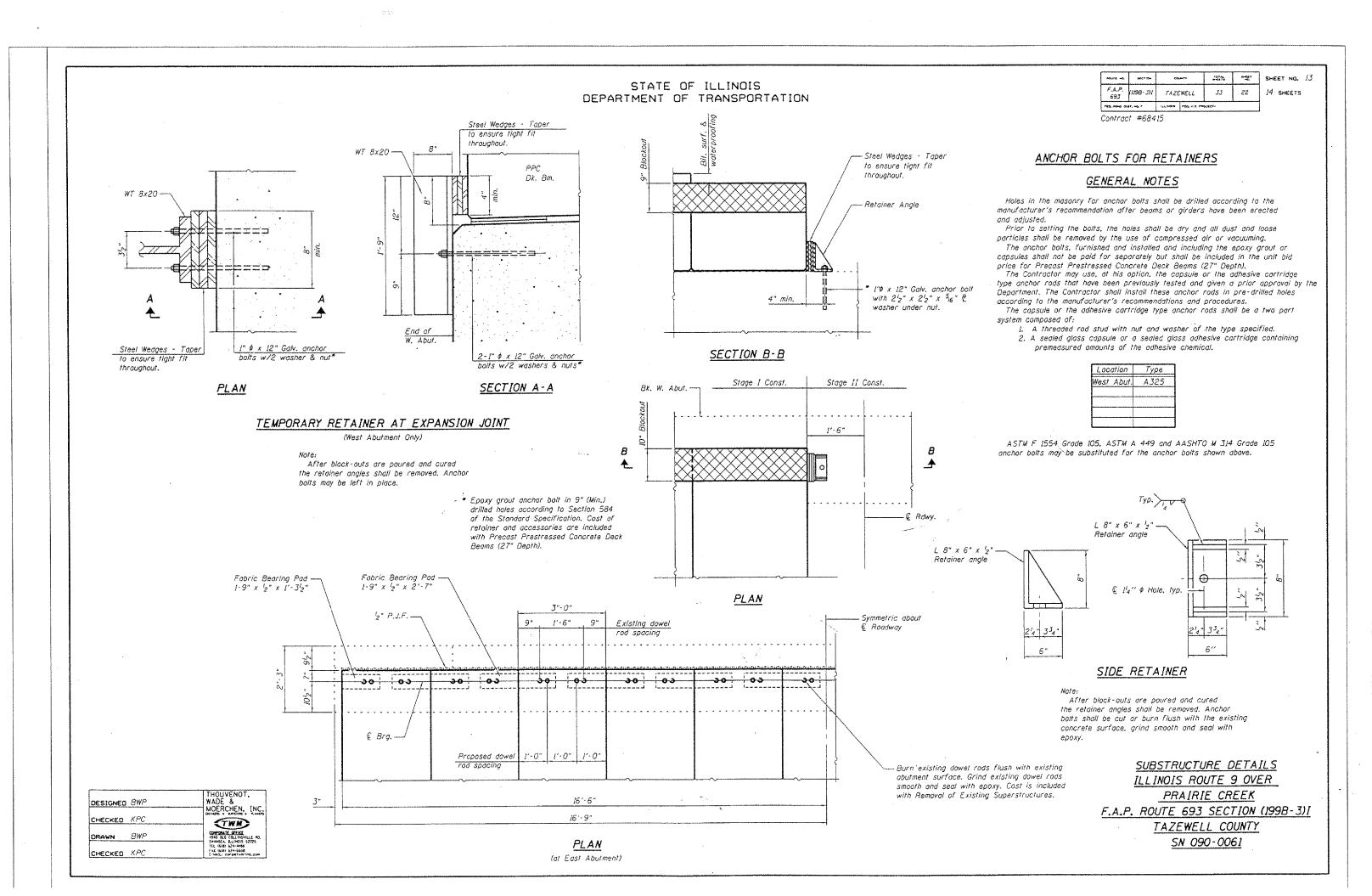
ILLINOIS ROUTE 9 OVER

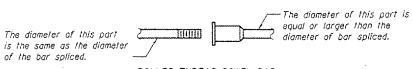
PRAIRIE CREEK

F.A.P. ROUTE 693 SECTION (1198-3)I

TAZEWELL COUNTY

SN 090-0061





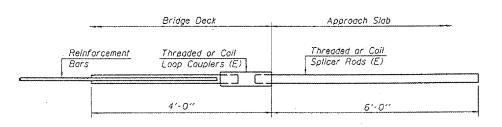
ROLLED THREAD DOWEL BAR

"" ONE PIECE

עיעיעיע WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

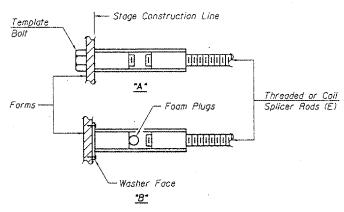
** Heavy Hex Nuts conforming to ASTM A 563, Grade C. D or DH may be used.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

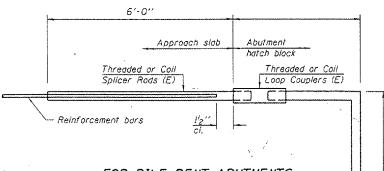
	Bar	Splicer	for #	5 bar		
Mi∩.	Capacity	= 23.0	kips -	tensi	an	
Min,	Pull-out	Strength	= 9.2	2 kips	-	tension
No.	Required	*				

DESIGNED BWP	THOUVENOT.
CHECKED KPC	MOERCHEN, INC.
DRAWN BWP	COMPORATE OFFICE 4940 OLD COLLINSVILLE RO.
CHECKED KPC	SWAMSEA, ILLIMOIS 62226 I'EL (53) 624-4488 FAX (618) 624-5688 E-MAIL: com 007 vin-inc.com
BSD-1	10-22-04



INSTALLATION AND SETTING METHODS

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



FOR PILE BENT ABUTMENTS

-	Bar Splicer for #5 bar
	Min. Capacity = 23.0 kips - tension
	Min. Pull-out Strength = 9.2 kips - tension
	No. Required =

HATTA MEET NO. 14 F.A.P. (1198 · 3)1 TAZEWELL 33 23 14 SHEETS

Contract #68415

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity (Tension in kips) = 1.25 x fy x A,

(Tension in App).

Minimum *Pull-out Strength ≈ 1.25 x fs_{allow} x A_f (Tension in kips)

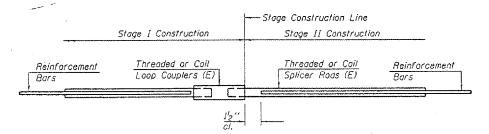
Where fy = Yield strength of lapped reinforcement bars in ksi.

fs_{allow}= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)

A, = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

	BAR SPLICER ASSEMBLIES						
		Strength Requirements					
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension				
#4	1'-8''	14.7	5.9				
#5	2'-0"	23.0	9.2				
#6	2'-7"	33.1	<i>13.3</i>				
#7	3′-5′′	45.1	18.0				
#8	4'-6"	58.9	23.6				
#9	5′-9″	75.0	30.0				
#10	7′-3″\	95.0	38.0				
#11	9'-0''	117.4	46.8				

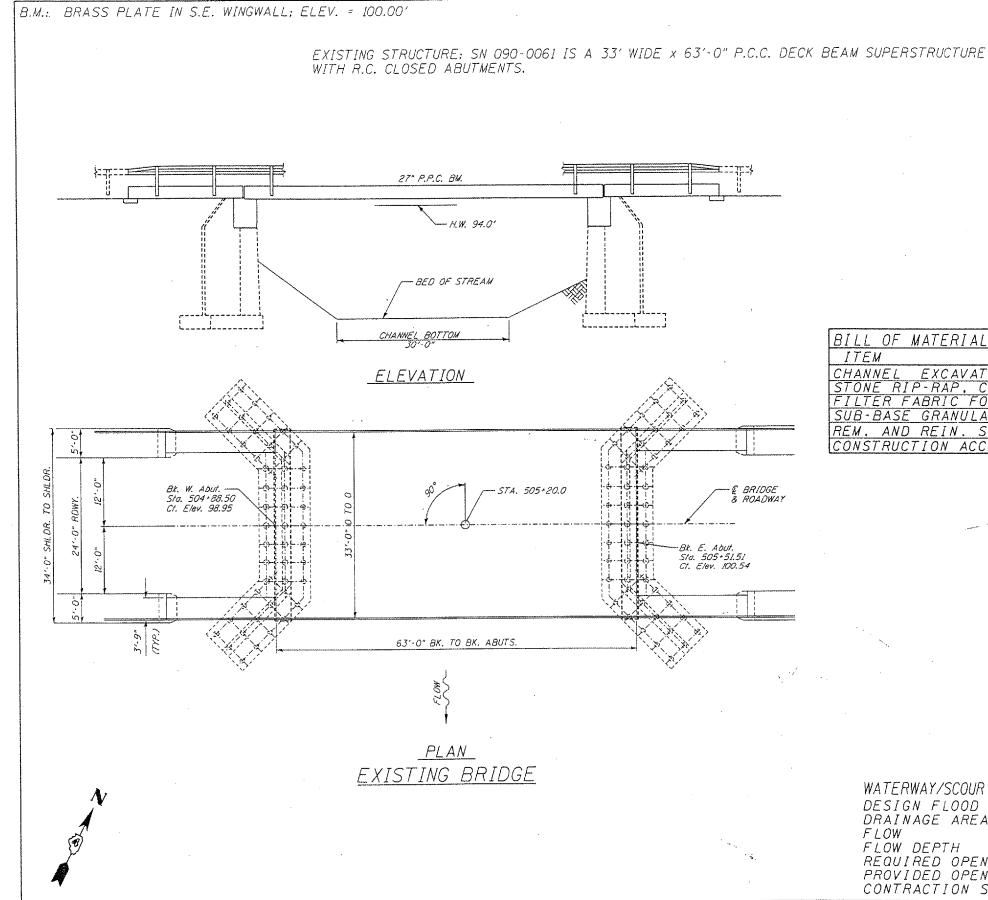
Bar splicer assemblies shall be according to Section 508 of the Standard Specifications. except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



STANDARD

	Bar Size	No. Assemblies Required	Location
	#5	3	Expansion End Blockout
1	#6	5	West Abutment

BAR SPLICER ASSEMBLY DETAILS ILLINOIS ROUTE 9 OVER PRAIRIE CREEK F.A.P. ROUTE 693 SECTION (119B-3)1 TAZEWELL COUNTY SN 090-0061

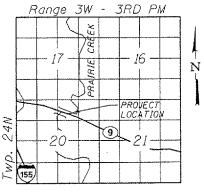


 ROUTE NO.	SECTION		COUNT	Υ	TOTAL SHEETS	SHEET NO.
F.A.P. 693	*		TAZEWI	ELL	33	24
FED. ROAL	DIST. NO. 4	1	LLINOIS	FED	. AID PF	ROJECT

INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
	GENERAL PLAN AND ELEVATION, SUMMARY OF QUANTITIES, LOCATION MAP
2	R.O.W. PLAN
3	SITE GRADING PLAN
4	SITE DIMENSION PLAN
5	SITE PROFILE
6-8	CROSS SECTIONS

BILL OF MATERIALS		
ITEM	UNIT	TOTAL
CHANNEL EXCAVATION	CU YD	416
STONE RIP-RAP, CLASS A5	TONS	1685
FILTER FABRIC FOR RIPRAP	SQ YD	712
SUB-BASE GRANULAR MATERIAL, TYPE C	TONS	100
REM. AND REIN. STEEL PLATE BEAM GUARD RAIL, TY. A	FOOT	50
CONSTRUCTION ACCESS	L SUM	1



LOCATION SKETCH

WATERWAY/SCOUR INFORMATION
DESIGN FLOOD 100 YRS
DRAINAGE AREA 18.2 SQ MI
FLOW 3,426 CFS
FLOW DEPTH 8.0 FT
REQUIRED OPENING 555 SQ FT
PROVIDED OPENING 65.8 SQ FT
CONTRACTION SCOUR DEPTH 4 FT

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION

S.N. 090-0061

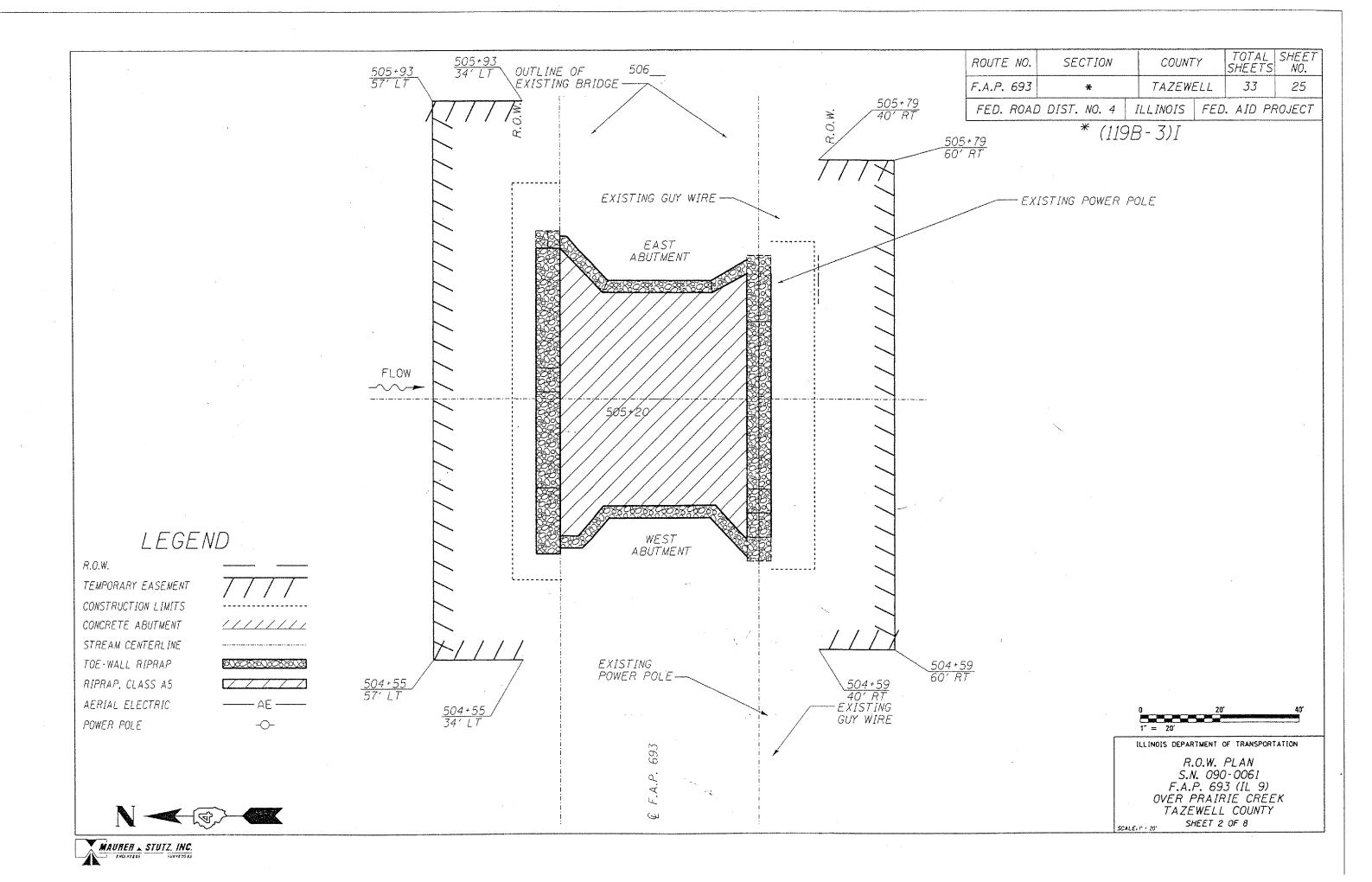
F.A.P. 693 (IL 9)

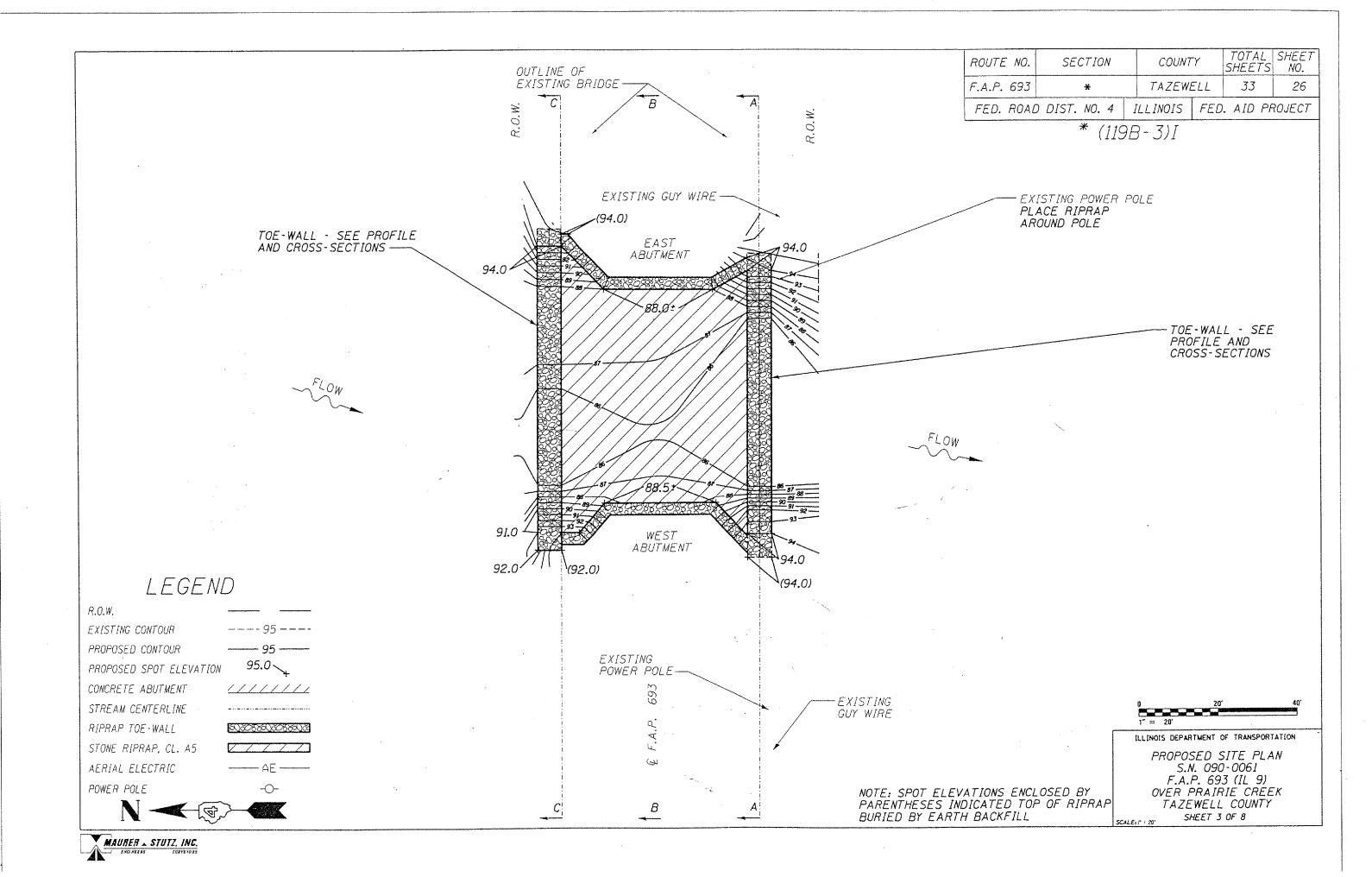
OVER PRAIRIE CREEK

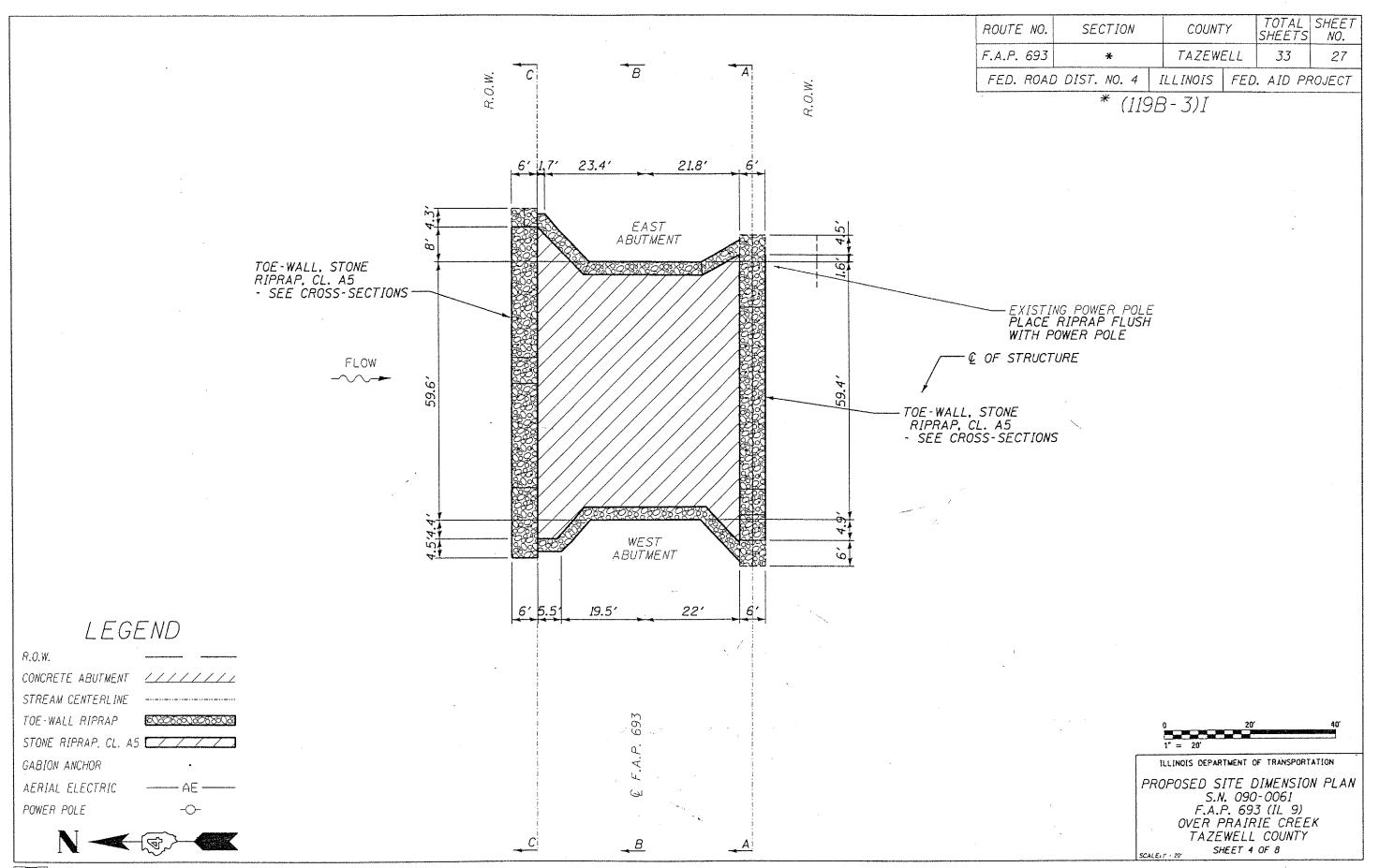
TAZEWELL COUNTY

SHEET 1 OF 8

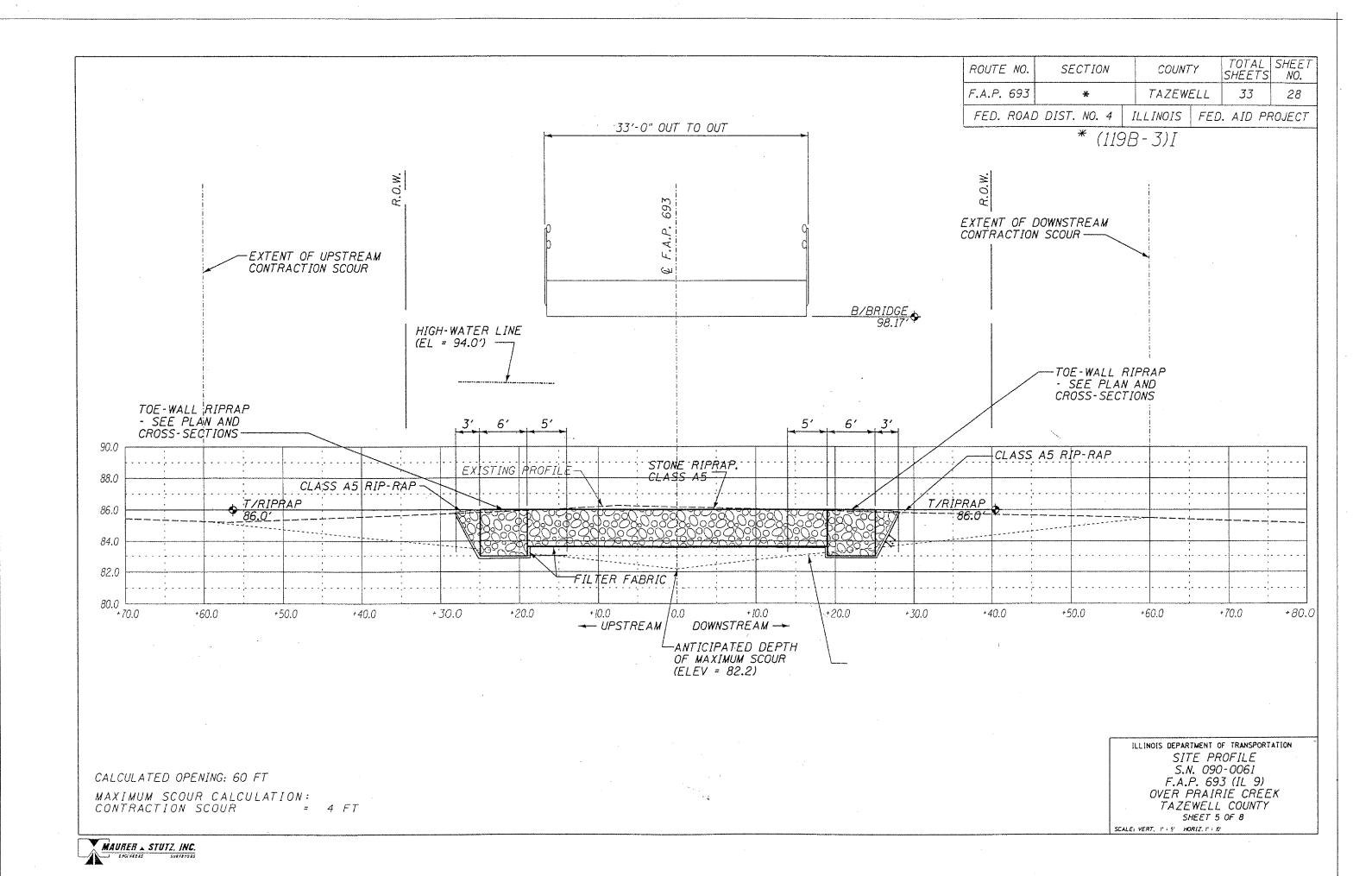




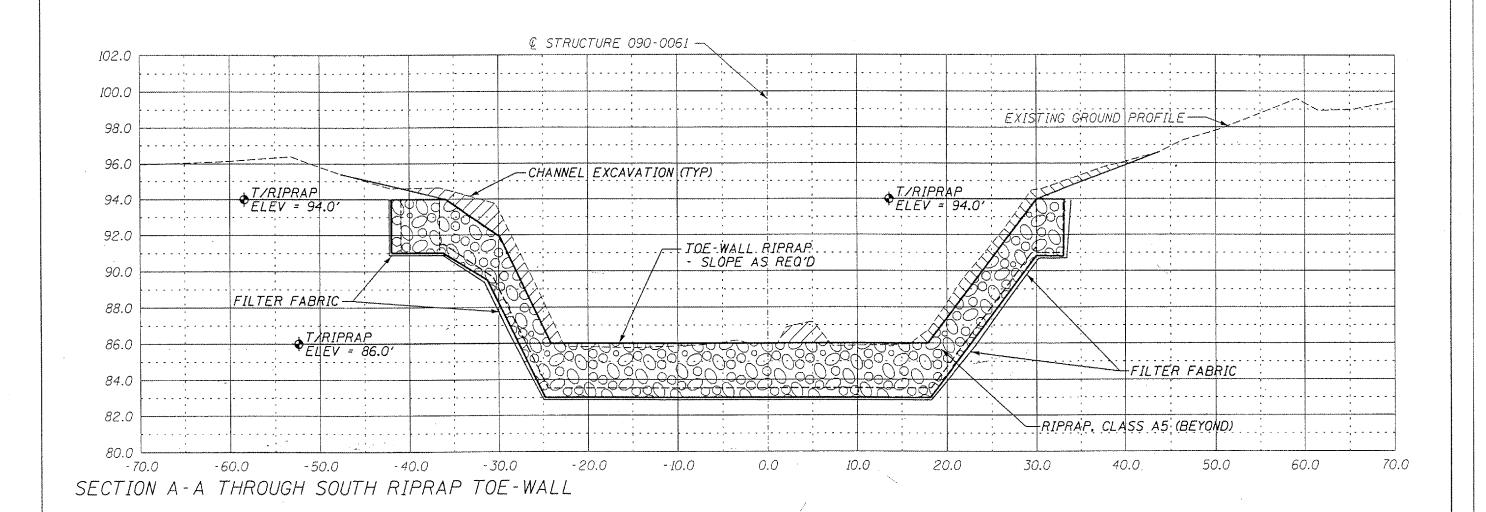








ROUTE NO.	SECTION		COUNT	Ϋ́	TOTAL SHEETS	
F.A.P. 693	*		TAZEW	ELL	33	29
FED. ROAL	DIST. NO. 4	1	LLINOIS	FED	. AID PF	ROJECT



ILLINOIS DEPARTMENT OF TRANSPORTATION

SITE CROSS SECTION

S.N. 090-0061

F.A.P. 693 (IL 9)

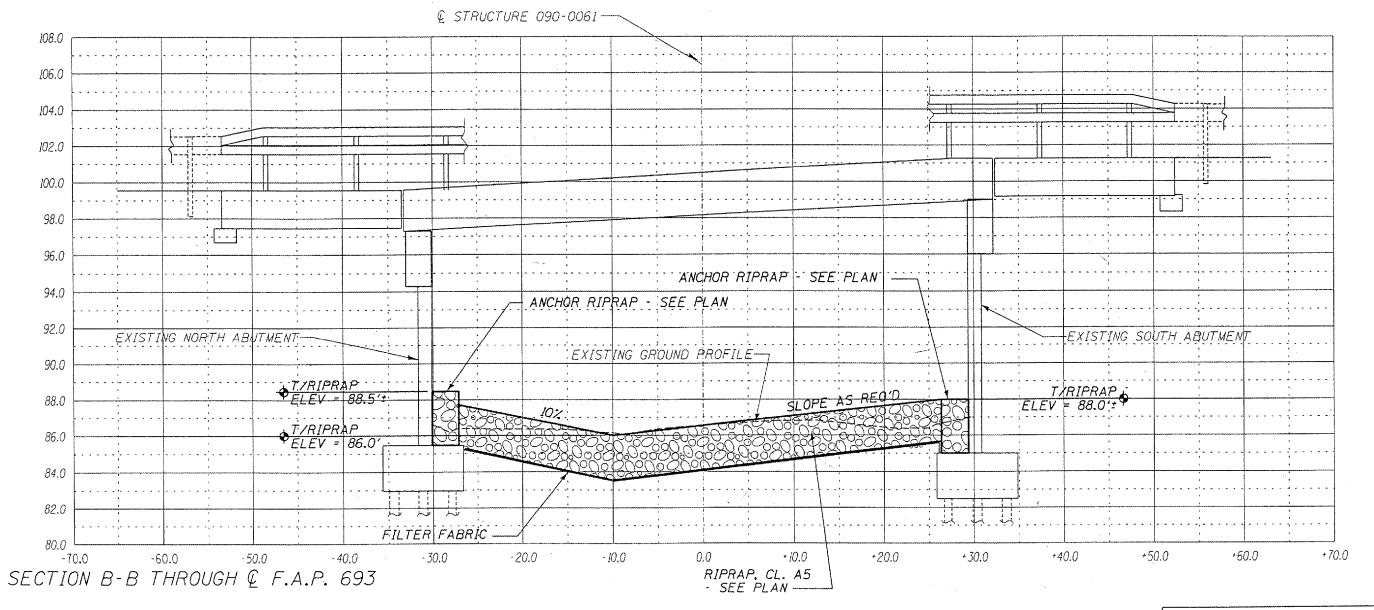
OVER PRAIRIE CREEK

TAZEWELL COUNTY

SHEET 6 0F 8

SCALE, VERT, 1-5-40812, 5-107

ROUTE NO.	SECTION	COUNT	γ	TOTAL SHEETS	
F.A.P. 693	*	TAZEWI	ELL	33	30
FED. ROAL	DIST. NO. 4	ILLINOIS	FED	. AID PF	ROJECT



ILLINOIS DEPARTMENT OF TRANSPORTATION

SITE CROSS SECTION

S.N. 090-0061

F.A.P. 693 (IL 9)

OVER PRAIRIE CREEK

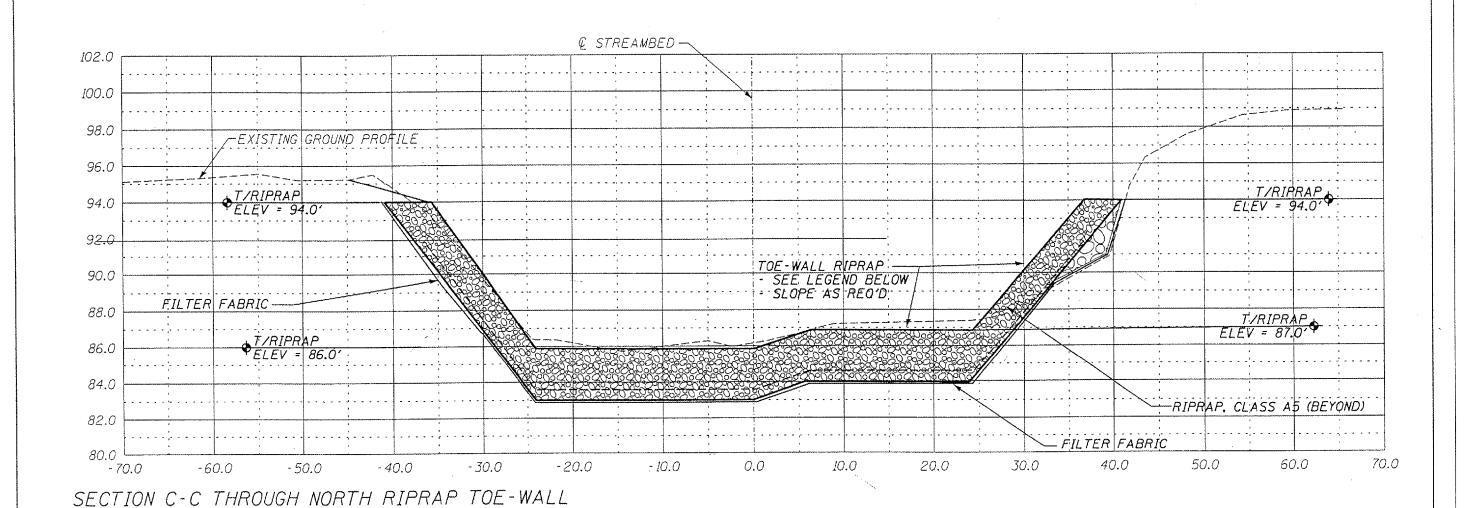
TAZEWELL COUNTY

SHEET 7 OF 8

SCALE, VERT. 1:55 HORIZ. 1:10



ROUTE NO.	TE NO. SECTION		COUNTY		TOTAL SHEETS	SHEET NO.	
F.A.P. 693	*		TAZEW	ELL	33	31	
FED. ROAL	DIST. NO. 4	Ì	LLINOIS	FED	. AID PF	ROJECT	
NV							



ILLINOIS DEPARTMENT OF TRANSPORTATION

SITE CROSS SECTION

S.N. 090-0061

F.A.P. 693 (IL 9)

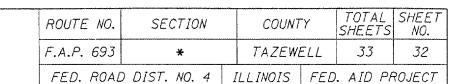
OVER PRAIRIE CREEK

TAZEWELL COUNTY

SHEET 8 OF 8

SCALEL VERT. 1:55 HORIZ.1:87





- INTAKE PIPE TEMPORARY -COFFERDAM -L'IMITS OF SCOUR-COUNTERMEASURE EXISTING -STRUCTURE (TYP.)TEMPORARY -COFFERDAM - DISCHARGE PIPE (AS REQUIRED) STREAM AT LOW FLOW

FIGURE D1. TEMPORARY COFFERDAM WITH PUMP BYPASS

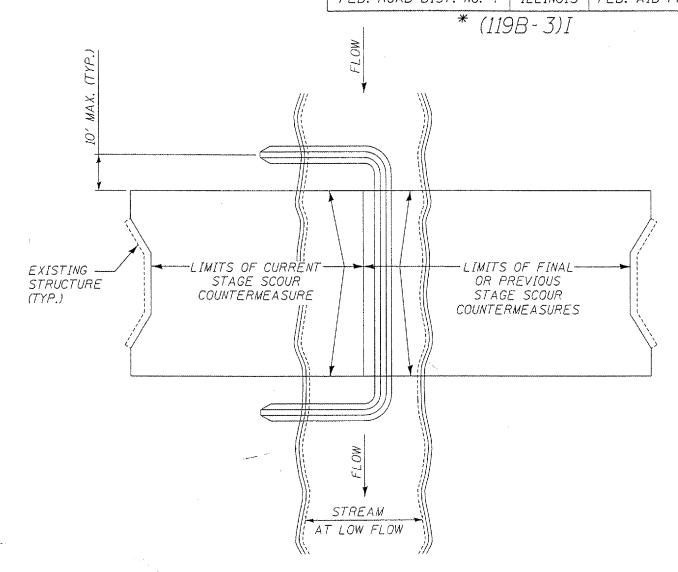


FIGURE D2. STAGED IN-STREAM COFFERDAM DIVISION

NOTE: DEWATERING SYSTEM DETAILS SHALL BE USED IN CONJUNCTION WITH THE PROJECT SPECIAL PROVISIONS.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DEWATERING SYSTEM DETAILS S.N. 090-0061 IL 9 OVER PRAIRIE CREEK



 ROUTE NO.	SECTION		COUNT	Y	TOTAL SHEETS	SHEET NO.
F.A.P. 693	*		TAZEWI	ELL	33	33
FED. ROAL	DIST. NO. 4	1	LLINOIS	FED	. AID PF	ROJECT

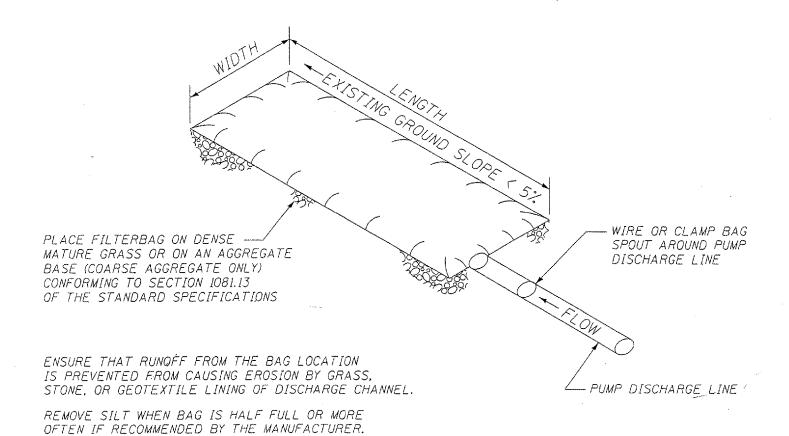


FIGURE S1. SEDIMENT FILTER BAG

DISPOSE OF SILT BY TRANSPORTING THE FILLED BAG TO DISPOSAL AREA. SLIT THE BAG, BLEND SILT INTO EXISTING TOPOGRAGHY, SEED AND MULCH

MAINTAIN EXTRA FILTER BAGS ON SITE.
REPLACE DAMAGED BAGS PROMPTLY

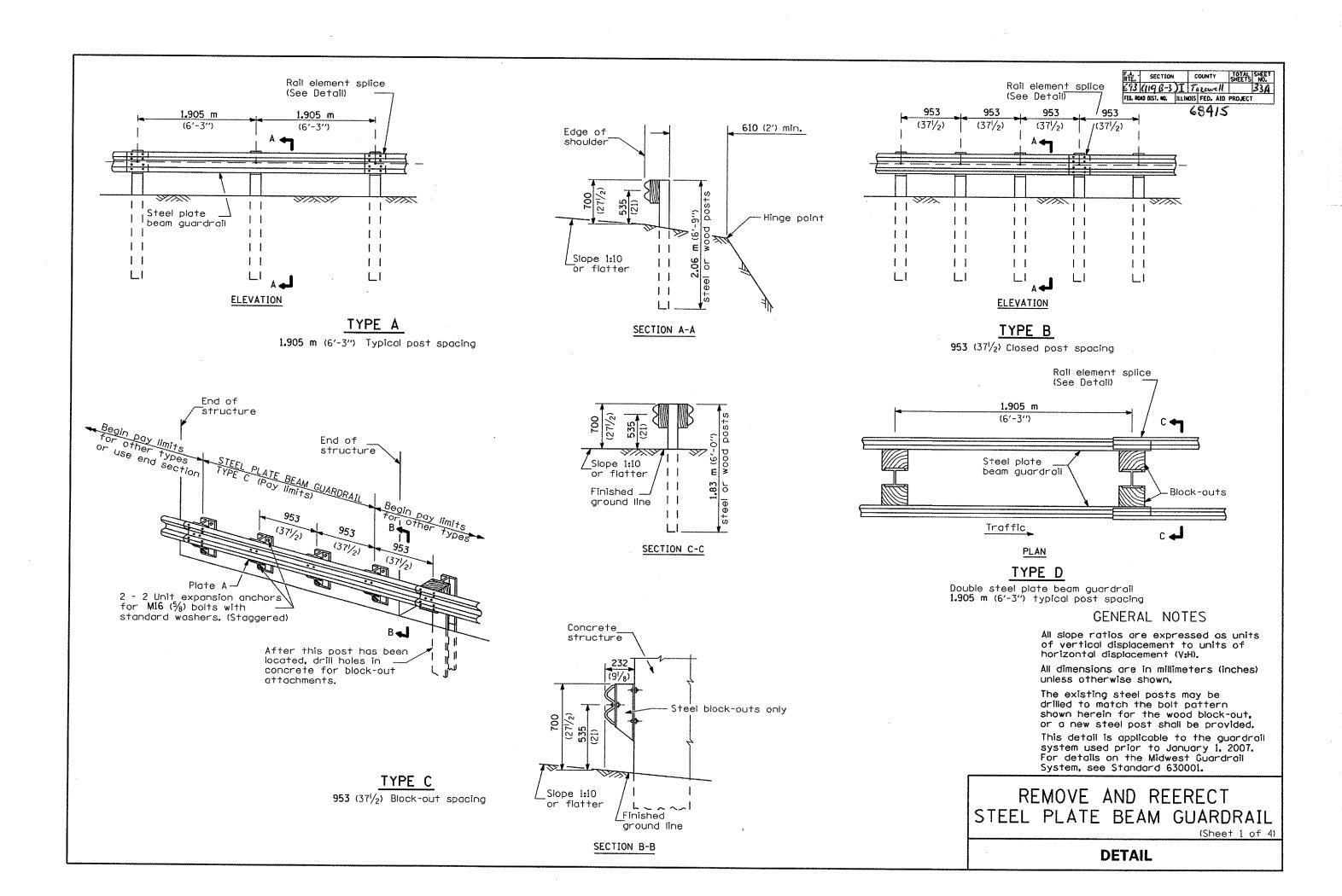
TYPICAL FLOX RATE: 10 GPM x W x L

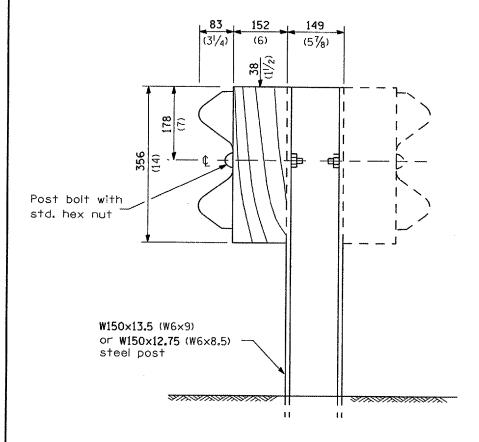
NOTE: DEWATERING SYSTEM DETAILS SHALL BE USED IN CONJUNCTION WITH THE PROJECT SPECIAL PROVISIONS.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DEWATERING SYSTEM DETAILS S.N. 090-0061 IL 9 OVER PRAIRIE CREEK







STEEL POST CONSTRUCTION

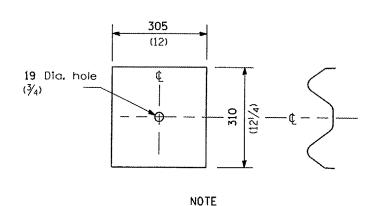
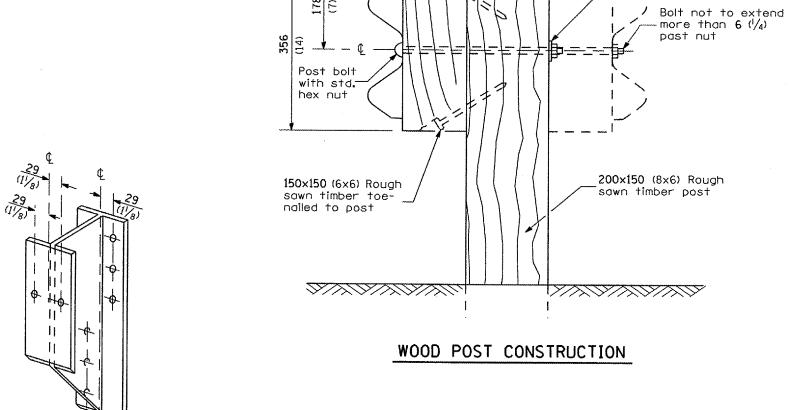


Plate A shall be placed between rail element and block-out at non-splice mounting points only when steel block-outs are used.

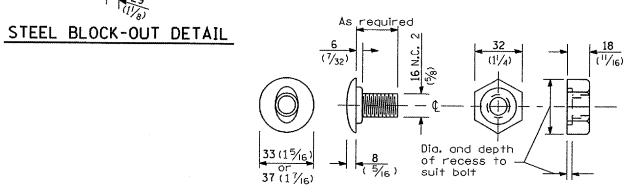
PLATE A



152

(6)

200



POST OR SPLICE BOLT & NUT

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL
(Sheet 2 of 4)

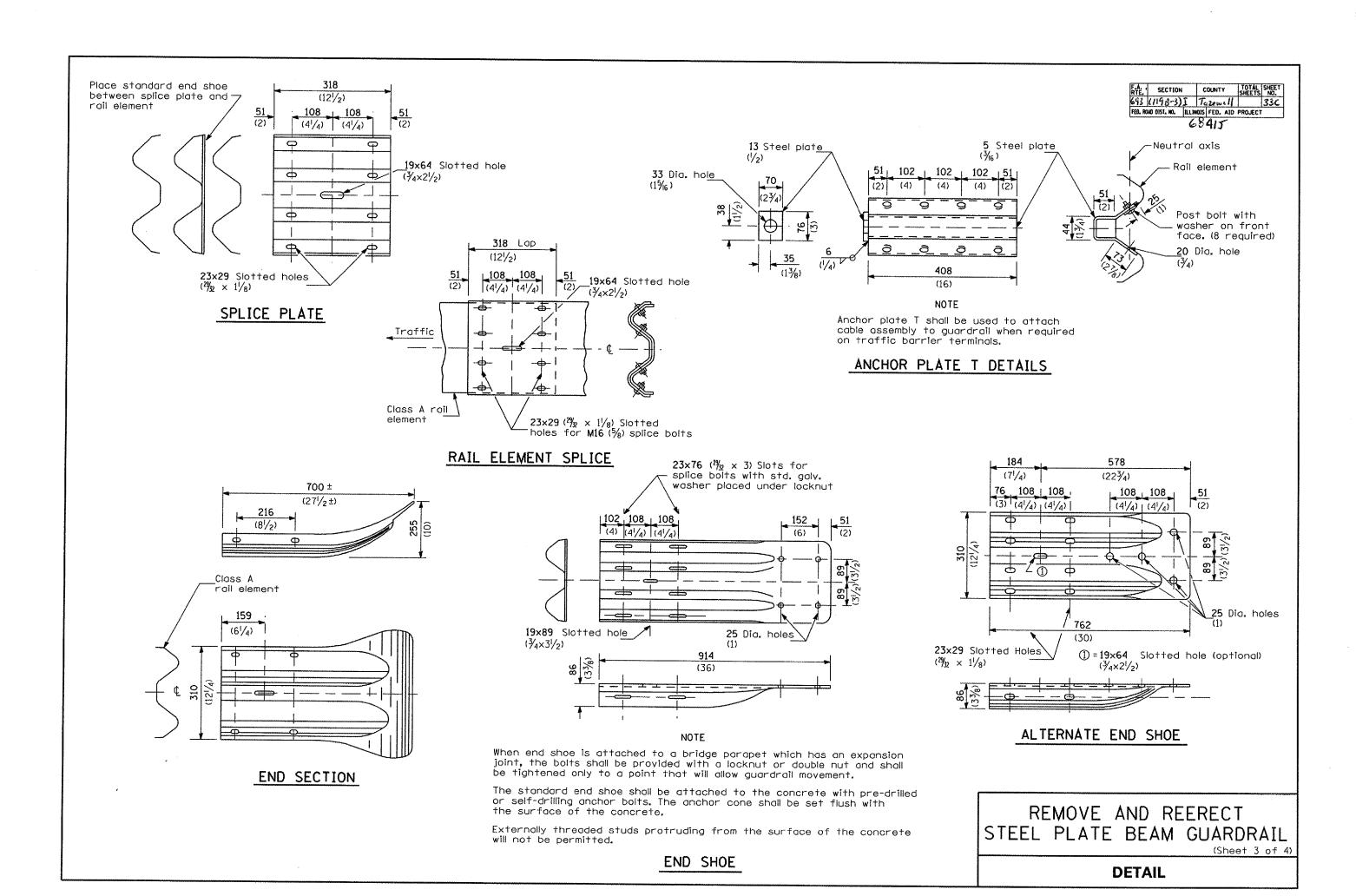
.____

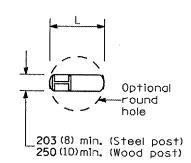
FED. ROUD DIST. NO. LLINDIS FED. AID PROJECT

Std. flat washer

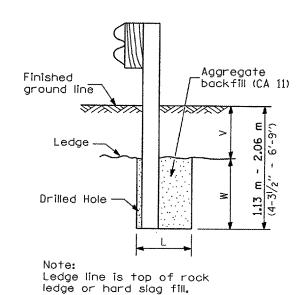
68415

DETAIL



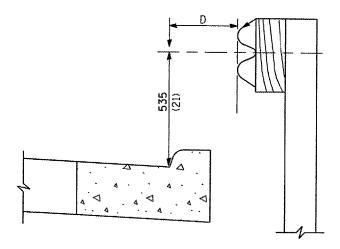


PLAN



ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED



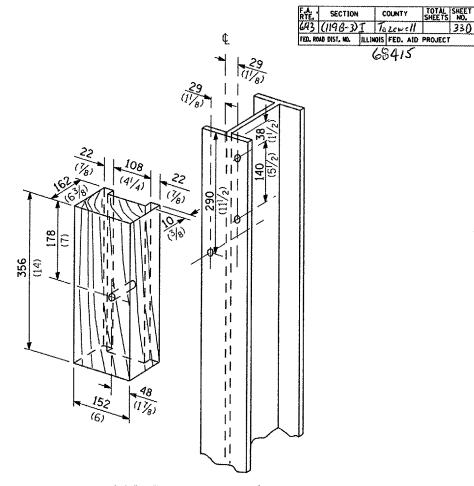
Note:

If it is necessary for D to be more than 300 (12) and less than 3.0 m (10'-0") type M-5 (M-2) curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

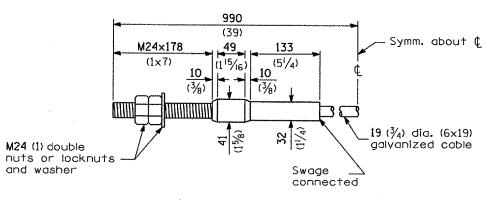
GUARDRAIL PLACED BEHIND CURB

(D = 0 desirable to 300 (12) maximum)

V	w	L.	L		
· ·		Steel Post	Wood Post		
0 - 460	610	530	580		
(0 - 18)	(24)	(21)	(23)		
>460 - 825	305 (12)	203	250		
(>18 - 41.5)		(8)	(10)		
>825 - 1.13 m	305 - 0	203	250		
(>41.5 - 53.5)	(12 - 0)	(8)	(10)		



WOOD BLOCK-OUT AND STEEL POST DETAILS



CABLE ASSEMBLY

(18,100 kg (40,000 lbs.) min. breaking strength) Tighten to taut tension.

> REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL

68415

DETAIL

(Sheet 4 of 4)