033

07-12-2019 LETTING ITEM 033

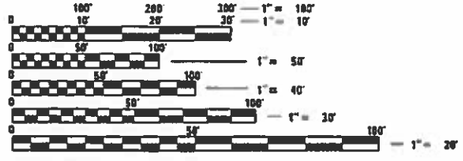
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL/ WOODFORD	26	1
	ILLINOIS	CONTRACT NO. 68C97		

INDEX OF SHEETS:

HIGHWAY STANDARDS:

442201–03
630001–12
630106–02
630301–09
701201–05
701301–04
701306–04
701311–03
701336–07
701901–08
725001–01
781001–04
782006

ADT = 2488 YEAR 2015
SU = 65 (2.60 %)/2015
MU = 42 (1.69 %)/2015



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 MICHAEL JACOBS 309–671–3460
PROJECT MANAGER RICH DOTSON 309–671–3455

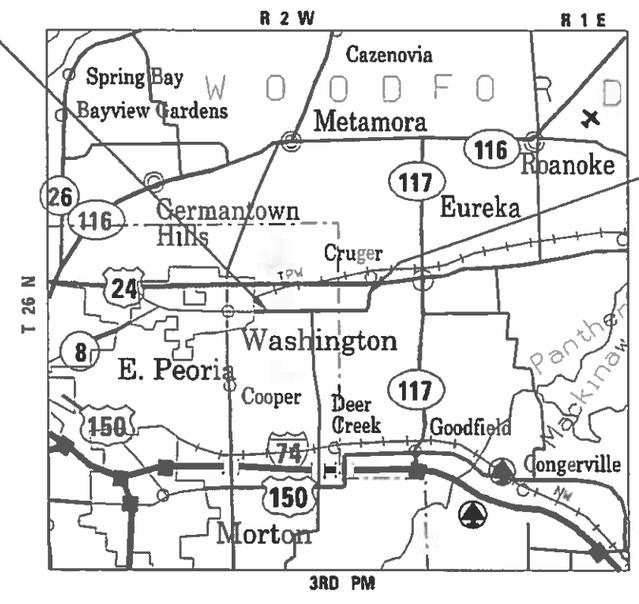
CONTRACT NO. 68C97
CATALOG NO. 035332–00D

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

FAS ROUTE 368 (BUS 24)
SECTION 35RS–9
TAZEWELL/WOODFORD COUNTIES
PROJECT STP–QKFV(661)
C–94–002–16

PROJECT BEGINS
STA. 15+00 (BUS 24)



PROJECT ENDS
STA. 302+00 (BUS 24)

PROJECT CONSISTS OF HMA RESURFACING ON BUS 24 FROM EAST OF LYNN ST TO WEST OF CRUGER ROAD IN WOODFORD AND TAZEWELL COUNTY

GROSS LENGTH OF IMPROVEMENT = 5.2 MILES (27,262 FEET)
NET LENGTH OF IMPROVEMENT = 5.2 MILES (27,262 FEET)

D–94–001–16

LOCATION OF SECTION INDICATED THUS: –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 31 2019
Ronald A Garnett PSO
REGION THREE ENGINEER

June 11 2019
ENGINEER OF DESIGN AND ENVIRONMENT

June 19 2019
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

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:

* BDE Form 2289 (Environmental Survey Request)
* A location map showing the size limits and location of the use area
* Signed property owner agreement form–D4 PI0100
* Color photographs depicting the use area
* Borrow Area Entry Agreement form–D4 PI0101

Please note that a minimum of two weeks shall be allowed for the District to obtain the required environmental clearances.

PROPERTY OWNER ACCESS REQUIREMENTS

Access must be maintained to all existing properties during construction per Article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short–term closures.

CONSECUTIVE SIDE STREET (ROAD) CLOSURE – PROHIBITED

1. No two consecutive side streets (roads) may be closed at the same time during construction. The Contractor must alternate streets (roads).

2. Adjacent side roads will not be closed simultaneously. BLR Standard 21 shall be used for all local road closures without any entrances within the closed area. BLR Standard 22 can be used where it is necessary to allow local traffic access.

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.

NO PASSING ZONE VERIFICATION

The resident shall contact Operations to verify the location of no passing zones prior to placement of centerline striping.

PAVING SURFACE COURSE

Continuous paving operations on the main roadway shall be maintained at all times during the construction of the hot–mix asphalt surface. No interruptions for side roads, entrances, turn lanes, etc. will be allowed.

PAVEMENT STATIONING 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 (20mm) 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 considered included in the cost of the associated pavement and/or overlay pay items.

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

Surface Type	Residual Rate
Milled (HMA or PCC)	0.08 LB/SF
Existing Pavement	0.08 LB/SF
Fog Coat (between lifts)	0.08 LB/SF

Notes: Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal aggregate size.

PAVING SURFACE COURSE

Continuous paving operations on the main roadway shall be maintained at all times during the construction of the hot–mix asphalt surface. No interruptions for side roads, entrances, turn lanes, etc. will be allowed.

The following mixture requirements are applicable for this project:

Mixture Use(s):	Surface Course 1.5"	Binder Course 2.25"	Partial Depth Patching	Full Depth Patching & Shoulder (Lower Lifts)	Shoulders (Surface Lift)	Incidental Surface
AC/PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
Design Air Voids:	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50
Mixture Composition: (Mixture Gradation)	IL 9.5	IL 9.5	IL 9.5	IL 19.0	IL 9.5FG	IL 9.5
Friction Aggregate:	Mix D	N.A.	N.A.	N.A.	Mix C	Mix C
Quality Management Program:	PFP	PFP	QCQA	QCQA	QCQA	QCQA

Note: 1) Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more thn 6 times nominal maximum aggregate size, unless otherwise approved by the Engineer.
2) For design purposes, mixture weight for all mixes is determined to be 112.0 lb/s.y./in., unless otherwise noted.
3) Sublot size for QCP mix will be 700 tons, unless otherwise agreed to by the Engineer and the paving contractor.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES /HMA REQUIREMENTS

SCALE: | SHEET OF 26 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	2
		CONTRACT NO. 68C97		
		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				TAZEWELL	WOODFORD	TAZEWELL	WOODFORD
				0005	0005	07A0	07A0
				80% FED	80% FED		
				20% STATE	20% STATE	100% STATE	100% STATE
				RURAL	RURAL	RURAL	RURAL
20200100	EARTH EXCAVATION	CU YD	10	10			
20200500	EARTH EXCAVATION (WIDENING)	CU YD	611		611		
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	33		33		
20400800	FURNISHED EXCAVATION	CU YD	13	13			
21101615	TOPSOIL FURNISH & PLACE, 4"	SQ YD	211	211			
25000750	MOWING	ACRE	4			3	1
28000400	PERIMETER EROSION BARRIER	FOOT	150	150			
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	8	7	1		
40600982	HOT - MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1328	896	432		
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	50	50			
40600990	TEMPORARY RAMP	SQ YD	155	93	62		
40602978	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50	TON	12580	7274	5306		
40603335	HOT - MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	8525	4930	3595		
40800050	INCIDENTAL HOT - MIX ASPHALT SURFACING	TON	219	120	99		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL / WOODFORD	26	3
		CONTRACT NO. 68C97		
	ILLINOIS	FED. AID PROJECT STP-0KFV(661)		

					CONSTRUCTION CODE			
					TAZEWELL	WOODFORD	TAZEWELL	WOODFORD
					0005	0005	07A0	07A0
					80% FED	80% FED		
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	20% STATE	20% STATE	100% STATE	100% STATE
					RURAL	RURAL	RURAL	RURAL
	44000158	HOT - MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	99323	57583	41740		
	44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	87	76	11		
	44201819	CLASS D PATCHES, TYPE III, 14 INCH	SQ YD	67	67			
	44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	2756	2276	480		
	48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	2692	1644	1048		
	48203100	HOT - MIX ASPHALT SHOULDERS	TON	1558		1558		
	50105220	PIPE CULVERT REMOVAL	FOOT	7	7			
	50800105	REINFORCEMENT BARS	POUND	80	80			
	54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2			
	54002020	EXPANSION BOLTS 3/4 INCH	EACH	28	28			
	54248510	CONCRETE COLLAR	CU YD	1	1			
*	63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	325	325			
*	63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	88	88			
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	8	8			

*= SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL / WOODFORD	26	4
		CONTRACT NO. 68C97		
	ILLINOIS	FED. AID PROJECT STP-0KFV(661)		

REV. 6/11/19

				CONSTRUCTION CODE			
				TAZEWELL	WOODFORD	TAZEWELL	WOODFORD
				0005	0005	07A0	07A0
				80% FED	80% FED		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	20% STATE	20% STATE	100% STATE	100% STATE
				RURAL	RURAL	RURAL	RURAL
63200310	GUARDRAIL REMOVAL	FOOT	613	613			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	1	1		
67100100	MOBILIZATION	L SUM	1	0.5	0.5		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1			
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.5	0.5		
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	0.5	0.5		
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	11344	6928	4416		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	3781	2309	1472		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	67195	42528	24667		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	100	100			
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	96	48	48		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	8	8			
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	67195	42528	24667		
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	100	100			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL / WOODFORD	26	5
		CONTRACT NO. 68C97		
	ILLINOIS	FED. AID PROJECT STP-OKFV(661)		

REV. 6/11/19

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
					TAZEWELL	WOODFORD	TAZEWELL	WOODFORD
					0005	0005	07A0	07A0
					80% FED	80% FED		
					20% STATE	20% STATE	100% STATE	100% STATE
					RURAL	RURAL	RURAL	RURAL
*	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	96	48	48		
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	375	222	153		
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	16			
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	375	222	153		
	X0300004	BITUMINOUS MATERIALS (TACK COAT), SPECIAL	POUND	146330	84311	62019		
	X0556100	PARTIAL DEPTH PATCHING (SPECIAL)	SQ YD	1489	557	932		
	X4400196	HOT - MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	1646	962	684		
	X4421000	PARTIAL DEPTH PATCHING	TON	418	156	262		
*	X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	67195	42528	24667		
*	X7830078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	100	100			
*	X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	96	48	48		
	XZ013798	CONSTRUCTION STATION LAYOUT	L SUM	1	0.5	0.5		
	Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	216	216			
	Z0034105	MATERIAL TRANSFER DEVICE	TON	20448	12205	8243		

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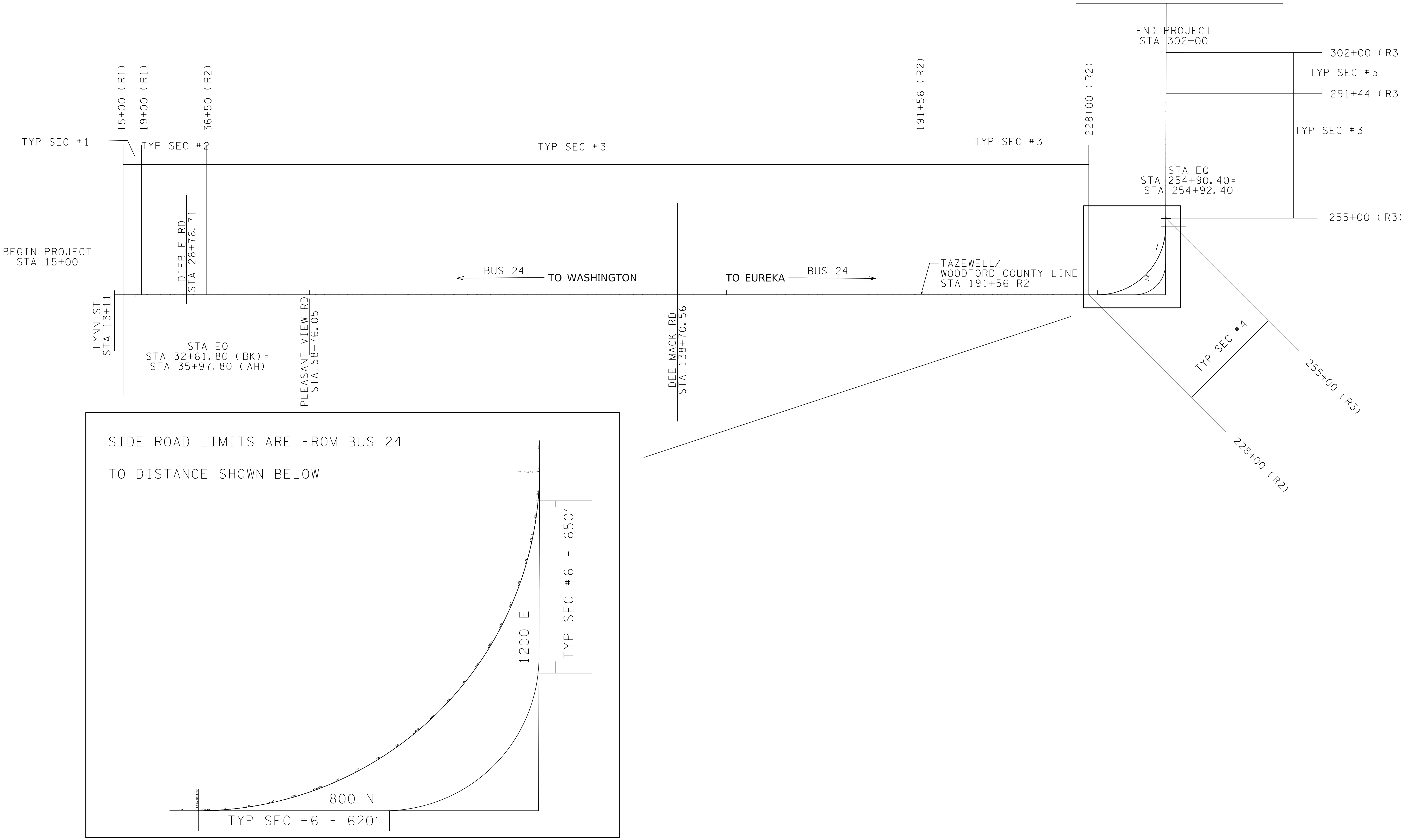
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL / WOODFORD	26	6
		CONTRACT NO. 68C97		
	ILLINOIS	FED. AID PROJECT STP-0KFV(661)		

REV. 6/11/19



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

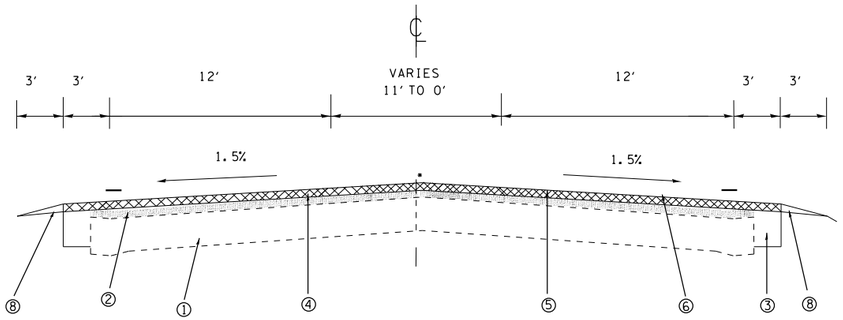
LINE DIAGRAM

SCALE: SHEET OF SHEETS STA. TO STA.

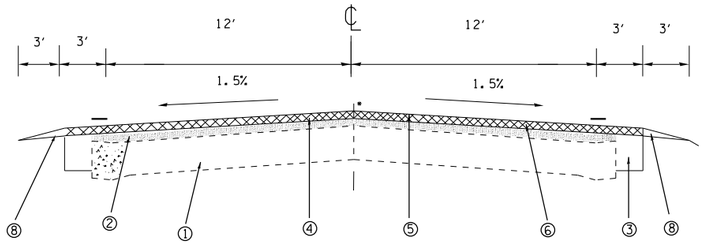
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL / WOODFORD	26	7

CONTRACT NO. 68C97

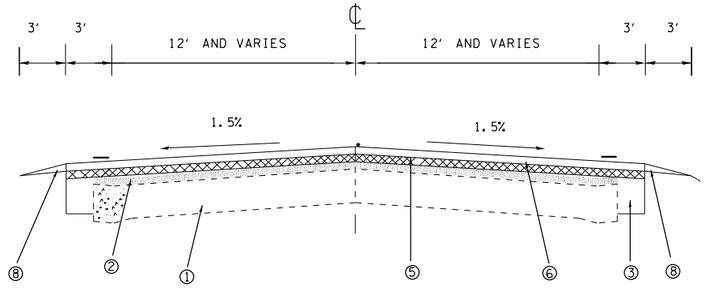
ILLINOIS | FED. AID PROJECT STP-QKFV(661)



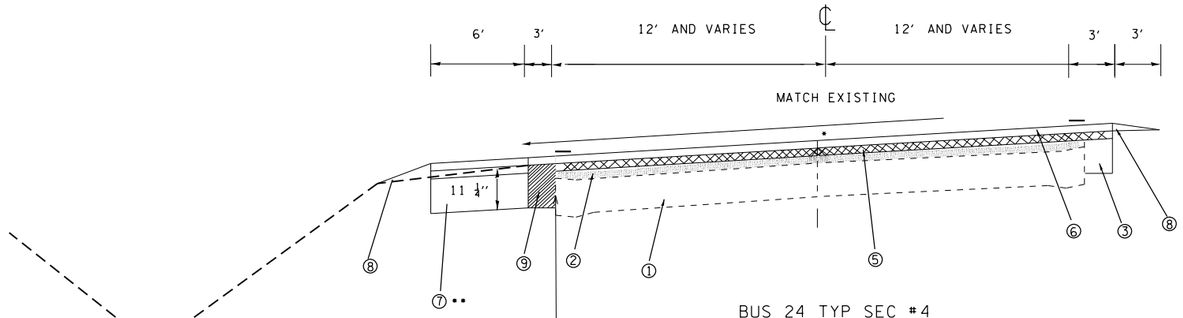
BUS 24 - TYP SEC #1
STA 15+00 (R1) TO STA 19+00 (R1)



BUS 24 TYP SEC #2
STA 19+00 (R1) TO STA 36+50 (R2)



BUS 24 TYP SEC #3
STA 36+50 (R2) TO STA 228+00 (R2)
STA 255+00 (R2) TO STA 291+44 (R3)



BUS 24 TYP SEC #4
STA 225+00 (R2) TO STA 258+00 (R3)

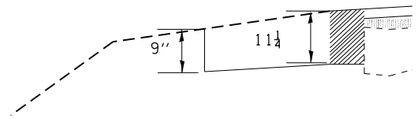
FULL DEPTH SAW CUT
INCIDENTAL TO EXCAVATING AND
GRADING EXISTING SHOULDERS

• HMA SURFACE REMOVAL SPECAIL

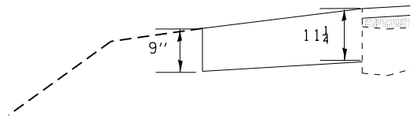
DRAWING NOT TO SCALE

① EXISTING PCC PAVEMENT
② EXISTING HMA OVERLAYS
③ EXISTING HMA WIDENING
④ PROPOSED HMA SURF REMOVAL, 2 ¼
⑤ PROPOSED HMA BINDER COURSE, MACHINE METHOD IL 9.5 2 1/4″
⑥ PROPOSED SURFACE COURSE, MIX D, N 50, 1 ½″
⑦ PROPOSED HMA SHOULDERS/PROPOSED EARTH EXC WIDENING
⑧ PROPOSED AGGREGATE SHOULDERS, TYPE B
⑨ EXCAVATING & GRADING EXISTING SHOULDERS

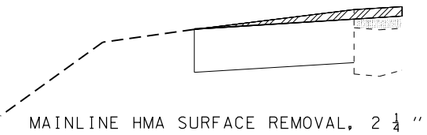
SUGGESTED SEQUENCE OF OPERATIONS
FOR SHOULDER WIDENING



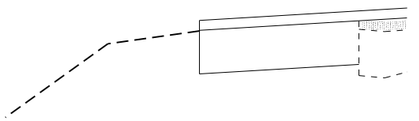
EXC/GRADE EX SHLD + EARTH EXC WI
(11 ¼ ″ FROM EXISTING SURFACE GRADE)



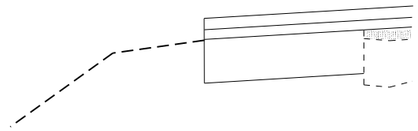
PLACE HMA SHOULDER, TAPERING TOP LIFT
TO MATCH EXISTING HMA SURFACE ELEVATION



MAINLINE HMA SURFACE REMOVAL, 2 ¼ ″
EXTEND OVER NEW WIDENING TO ELIMINATE TAPER
(TAPER REMOVAL PAID SAME AS MAINLINE)



PLACE HMA BC, MM IL 9.5 2 ¼ ″
OVER MAINLINE AND WIDENING



PLACE HMA SC, D, N50, 1 ½ ″
OVER MAINLINE AND WIDENING

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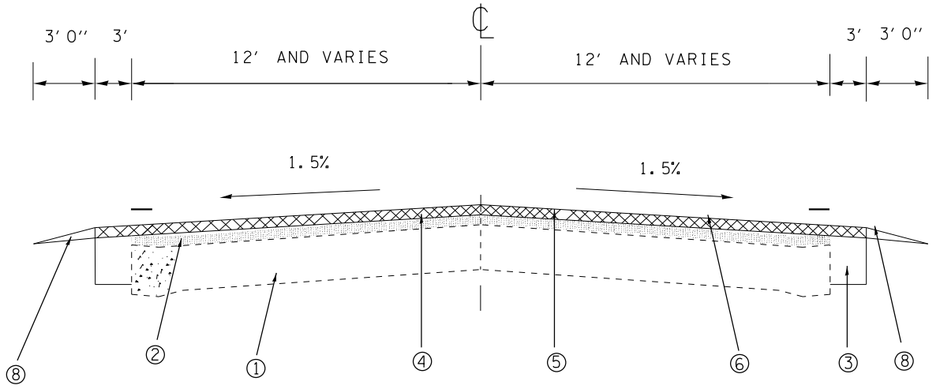
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

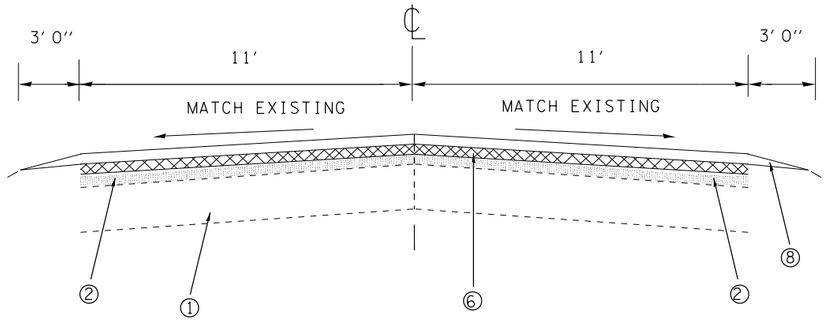
TYPICAL SECTIONS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	8
		CONTRACT NO. 68C97		
		ILLINOIS FED. AID PROJECT		



BUS 24 TYP SEC #5
STA 291+44 (R3) TO STA 302+00 (R3)



BUS 24 TYP SEC #6
800 W AND 1200 E

DRAWING NOT TO SCALE

① EXISTING PCC PAVEMENT
② EXISTING HMA OVERLAYS
③ EXISTING HMA WIDENING
④ PROPOSED HMA SURF REMOVAL, 2 1/4
⑤ PROPOSED HMA BINDER COURSE, MACHINE METHOD IL 9.5 2 1/4"
⑥ PROPOSED SURFACE COURSE, MIX D, N 50, 1 1/2"
⑦ PROPOSED HMA SHOULDERS
⑧ PROPOSED AGGREGATE SHOULDERS, TYPE B
⑨ EXCAVATING & GRADING EXISTING SHOULDERS

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	PLOT DATE = 5/31/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	9

CONTRACT NO. 68C97
ILLINOIS FED. AID PROJECT

EARTHWORK					
LOCATION	EARTH EXCAVATION	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	FURNISHED EXCAVATION	EARTH EXCAVATION WIDENING
	CU YD	CU YD	CU YD	CU YD	CU YD
TAZEWELL COUNTY					
STA 148+50 TO 150+50	10.4	23.8	13.4	13.4	
WOODFORD COUNTY					
STA 225+00 TO 258+00 LT					611
TAZEWELL COUNTY	10.4	23.8	13.4	13.4	
WOODFORD COUNTY	0	0	0	0	611
TOTAL	10	FOR INFORMATION ONLY		13	611

CLASS D PATCHES, 14 INCH			
LOCATION	TY II	TY III	TY IV
TAZEWELL COUNTY	76	67	2276
WOODFORD COUNTY	11	0	480
TOTAL	87	67	2756

* 20% ADDED TO QUANTITY

CLASS D PATCHES, 14 INCH		
LOCATION	PARTIAL DEPTH PATCHING	PARTIAL DEPTH PATCHING (SPECIAL)
	TON	SQ YD
TAZEWELL COUNTY	156	557
WOODFORD COUNTY	262	932
TOTAL	418	1489

* 20% ADDED TO QUANTITY

SEEDING								
LOCATION	TOPSOIL FURNISH & PLACE 4"	TEMP. EROS. CONTROL SEEDING	SEEDING CLASS 2A	NITROGEN FERTILIZER	PHOSPHORUS FERTILIZER	POTASSIUM FERTILIZER	MULCH METHOD 2	PERIMETER EROSION BARRIER
	SQ YD	POUND	ACRE	POUND	POUND	POUND	ACRE	FOOT
BUS 24 (TAZEWELL COUNTY)								
LT. STA. 149+00 TO 150+50	211.11	56.7	0.04	3.9	3.9	3.9	0.04	150
TOTAL (TAZEWELL COUNTY)	211.0	TO BE INCLUDED IN THE COST OF TOPSOIL FURNISH & PLACE, 4"						150.0

GUARDRAIL REMOVAL	
LOCATION	FOOT
TAZEWELL COUNTY	
RT. Sta. 36+92 to Sta. 39+67	275
LT. Sta. 37+74 to Sta. 40+12	238
RT. Sta. 148+80 to Sta. 149+80	100
TOTAL	613

DRAINAGE SCHEDULE						
LOCATION		PIPE CULVERT REMOVAL	CONCRETE COLLAR	REINFORCEMENT BARS	EXPANSION BOLTS	BOX CULVERT END SECTIONS
	LT / RT	FEET	CY YD	POUND	EACH	EACH
TAZEWELL COUNTY						
STA 148+32	LT	7.0	0.5	40	14	1
STA 148+32	RT		0.5	40	14	1
TOTAL		7	1	80	28	2

GUARDRAIL							
LOCATION	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	TERMINAL MARKER-DIRECT APPLIED	GUARDRAIL MARKERS, TYPE A	GUARDRAIL AGGREGATE EROSION CONTROL
	FOOT	FOOT	FOOT	EACH	EACH	EACH	TON
BUS. 24 (TAZEWELL COUNTY)							
RT. Sta. 36+87 to Sta. 39+62	131	43.75		2	2	4	65
LT. Sta. 37+74 to Sta. 40+12	94	43.75		2	2	4	57
RT. Sta. 148+37.1 to Sta. 150+26.6	50		37.5	2	2	4	47
LT. Sta. 148+37.8 to Sta. 150+25.3	50		37.5	2	2	4	47
JOB TOTAL (TAZEWELL COUNTY)	325.0	87.5	75.0	8.0	8.0	16.0	216.0

* LENGTH OF NEED DOES NOT INCULDE 12.5' OF TERMINAL LENGTH PER END

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REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	10
		CONTRACT NO. 68C97		
	ILLINOIS	FED. AID PROJECT		

MAINLINE RESURFACING TABLE															
LOCATION	LENGTH	WIDTH	AREA		HMA SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP	HMA SURFACE REMOVAL	HMA SURF REM SPL	POLY BITUMINOUS MATERIALS (TACK COAT) 2 APPLICATIONS		HMA BINDER COURSE (MACHINE METHOD) IL-9.5, N50	HMA SURFACE COURSE, MIX "D", N50	HMA SHOULDERS	EXCAVATING AND GRADING EXISTING SHOULDER	MATERIAL TRANSFER DEVICE
MAINLINE					TAPER RATE 1:240	TAPER RATE 1:40	2 1/4"	1 1/2"*	MILLED SURFACE 0.08 LB/SQ. FT.	FOG COAT* 0.08 LB/SQ. FT.	2 1/4"	1 1/2"*			
	FEET	FEET	SQ FT	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	POUND	POUND	TON	TON	TON	UNIT	TON
TAZEWELL COUNTY															
STA 15+00 TO STA 19+00	400.0	30.0	12000.0	1333.3	150.0	25.0	1183.3	22.2	960.0	976.0	168.0	113.9			281.9
STA 19+00 TO STA 32+61.80 BK	1361.8	30.0	40854.0	4539.3			4539.3	75.7	3268.3	3322.8	572.0	387.7			959.6
STA 35+97.80 AH TO STA 36+50	52.2	30.0	1566.0	174.0			174.0	2.9	125.3	127.4	21.9	14.9			36.8
STA 36+50 TO STA 191+56	15506.0	30.0	465180.0	51686.7			51686.7	861.4	37214.4	37834.6	6512.5	4414.0			10926.6
WOODFORD COUNTY															
STA 191+56 TO STA 225+00	3344.0	30.0	100320.0	11146.7			11146.7	185.8	8025.6	8159.4	1404.5	951.9			2356.4
STA 225+00 TO STA 228+00	300.0	36.0	10800.0	1200.0			1200.0	16.7	864.0	876.0	151.2	102.2	141.8	3.0	253.4
STA 228+00 TO 254+90.40 BK	2690.4	36.0	96854.4	10761.6			10761.6	149.5	7748.4	7856.0	1356.0	916.5	1271.2	26.9	2272.5
STA 254+92.40 AH TO STA 258+00	307.6	36.0	11073.6	1230.4			1230.4	17.1	885.9	898.2	155.0	104.8	145.3	3.1	259.8
STA 258+00 TO STA 291+44	3344.0	30.0	100320.0	11146.7			11146.7	185.8	8025.6	8159.4	1404.5	951.9			2356.4
STA 291+44 TO STA 302+00	1056.0	30.0	31680.0	3520.0	150.0	25.0	3370.0	58.7	2534.4	2576.6	443.5	300.6			744.1
COUNTY ROAD 800 N	620.0	22.0	13640.0	1515.6	110.0	18.3	1405.6	34.4	1091.2	1116.0	191.0	130.2			
COUNTY ROAD 1200 E	650.0	22.0	14300.0	1588.9	110.0	18.3	1478.9	36.1	1144.0	1170.0	200.2	136.5			
TAZEWELL COUNTY					150	25	57583	962	41568	42261	7274	4930	0		12205
WOODFORD COUNTY					370	62	41740	684	30319	30812	5306	3595	1558		8243
MAINLINE TOTAL					**520**	**87**	**99323**	**1646**	**144959**		**12580**	**8525**	**1558**	**33**	**20447**

*ADDITIONAL QUANTITY FOR MILL WIDE / PAVE WIDE IS INCLUDED IN THE APPLICABLE PAY ITEMS

		SIDE ROAD RESURFACING TABLE			
LOCATION	HMA SURFACE REMOVAL- BUTT JOINT	HMA SURFACE REMOVAL- BUTT JOINT	TEMPORARY RAMP	BITUMINOUS MATERIALS (TACK COAT) SPECIAL	INCIDENTAL HMA SURFACING
SIDE ROADS	30'	30'	TAPER RATE 1:40	0.08 LBS/SQ. FT.	1.5"
	SQ. FT.	SQ. YD.	SQ. YD.	POUND	TON
TAZEWELL COUNTY					
DIEBLE RD	1597.5	177.5	17.0	127.8	14.9
PLEASANT VIEW RD	1380.0	153.3	17.0	110.4	12.9
DEE MAC RD	3045.0	338.3	34.0	243.6	28.4
WOODFORD COUNTY					
WEIGH STATION				887.7	83.6
TAZEWELL COUNTY	6023	669	68	482	56
WOODFORD COUNTY	0	0	0	888	84
SIDE ROAD TOTAL	6023	669	68	1370	140

AGGREGATE WEDGE SHOULDER, TYPE B				
LOCATION	LENGTH	WIDTH	THICKNESS*	TON
	FOOT	FOOT	INCH	
TAZEWELL COUNTY				
STA 15+00 TO STA 32+61.80 BK	1761.8	3	2.5	167.2
STA 35+97.80 AH TO STA 191+56	15558.2	3	2.5	1476.6
WOODFORD COUNTY				
STA 191+56 TO STA 254+90.40 BK	6334.4	3	2.5	601.2
STA 254+92.40 AH TO STA 302+00	4707.6	3	2.5	446.8
TAZEWELL COUNTY TOTAL				1644
WOODFORD COUNTY TOTAL				1048
GRAND TOTAL				2692

* THICKNESS ACCOUNTS FOR EXISTING AGG SHOULDER BEING LOW

JOBSITE							
LOCATION	ENGINEERS FIELD OFFICE, TYPE A	MOBILIZATION	CONSTRUCTION STATION LAYOUT	TRAFFIC CONTROL AND PROTECTION,STANDARD 701201	TRAFFIC CONTROL AND PROTECTION,STANDARD 701306	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	MOWING
	CAL. MO.	LSUM	LSUM	LSUM	LSUM	LSUM	ACRE
TAZEWELL COUNTY	1	0.5	0.5	1.0	0.5	0.5	2.50
WOODFORD COUNTY	1	0.5	0.5		0.5	0.5	1.25
JOB TOTAL	2	1	1	1	1	1	4

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET OF SHEETS | STA. TO STA.

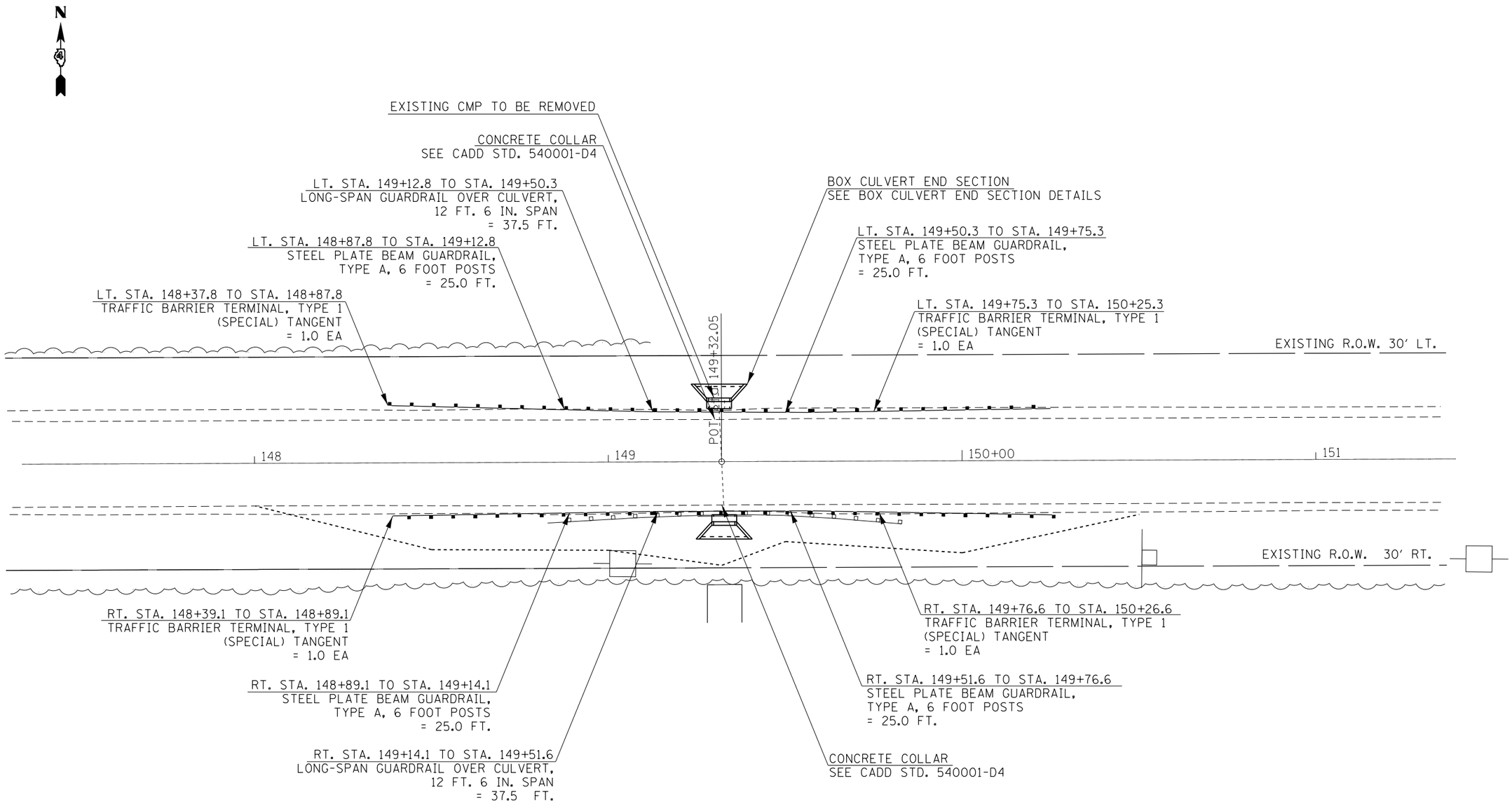
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	11
		CONTRACT NO. 68C97		
	ILLINOIS	FED. AID PROJECT		

ENTRANCES AND MAILBOX TURNOUTS		PCC SUR REM-BUTT JOINT(SQ YD)	HMA SUR REM-BUTT JOINT(SQ YD)	INCIDENTAL HMA (TON)	AGG DRIVEWAY ENT (TON)
TAZEWELL COUNTY					
LT. STA. 32+00	C.E.	50.0		4.2	
LT. STA. 58+01	C.E.			8	0.25
LT. STA. 68+66	P.E.			2.5	0.25
LT. STA. 69+61	P.E.			1.5	0.25
LT. STA. 78+68	P.E.			1.5	0.25
LT. STA. 81+66	P.E.			1.6	0.25
LT. STA. 95+29	P.E.			2.5	0.25
LT. STA. 111+22	P.E.		22.8	1.9	
LT. STA. 111+97	P.E.		19.4	1.6	
LT. STA. 113+72	P.E.			0.9	0.25
LT. STA. 114+38	P.E.				0.25
LT. STA. 129+48	C.E.		35	2.9	
LT. STA. 142+03	P.E.			1.7	0.25
LT. STA. 142+49	P.E.			1.4	0.25
LT. STA. 152+50	P.E.			1.5	0.25
LT. STA. 153+50	P.E.			1.2	0.25
LT. STA. 179+84	P.E.				0.25
RT. STA. 18+77	M.T.			1.1	
RT. STA. 57+41	P.E.			1.5	0.25
RT. STA. 87+26	P.E.			1.5	0.25
RT. STA. 88+56	P.E.			1.4	0.25
RT. STA. 100+09	P.E.			1.7	0.25
RT. STA. 101+00	P.E.			1.7	0.25
RT. STA. 112+42	P.E.			2.1	0.25
RT. STA. 113+21	P.E.			1.5	0.25
RT. STA. 113+90	P.E.			1.6	0.25
RT. STA. 117+04	P.E.			2.6	0.25
RT. STA. 117+51	P.E.			2.3	0.25
RT. STA. 127+43	P.E.			2.7	0.25
RT. STA. 129+31	P.E.			1.5	0.25
RT. STA. 130+27	P.E.			1.6	0.25
RT. STA. 133+19	P.E.			1.6	0.25
RT. STA. 135+37	P.E.			1.4	0.25
RT. STA. 135+96	P.E.			1.3	0.25
WOODFORD COUNTY					
LT. STA. 211+75	P.E.				
RT. STA. 208+05	P.E.		20.5	1.7	
RT. STA. 209+65	F.E.			1.7	
RT. STA. 278+57	C.E.			7.9	0.5
RT. STA. 289+77	P.E.		41.7	3.5	
SUB TOTAL			139.4	74.6	7.75
TAZEWELL COUNTY		50.0	77.2	64	7.3
WOODFORD COUNTY			62.2	14.8	0.5
GRAND TOTAL		50.0	139	79	7.8

PAVEMENT MARKING SCHEDULE						
GROOVING FOR RECESSED PAVEMENT MARKING	5"		5"	13"	25"	SHORT TERM PM (4")
MODIFIED URETHANE PAVEMENT MARKING	4"		4"	12"	24"	
LOCATION	WHITE	YELLOW SKIP DASH CENTERLINE	SOLID YELLOW CENTERLINE	WHITE	WHITE	
	FOOT			FOOT	FOOT	FOOT
TAZEWELL COUNTY						6928
RT. STA. 15+00 TO STA EQ 32+61.80 BK/ 35+97.80 AH	1762					
RT. STA EQ 32+61.80 BK/ 35+97.80 AH TO STA. 58+48.55	2251					
RT. STA. 59+03.55 TO STA. 138+38.56	7935					
RT. STA. 139+02.56 TO STA. 191+56	5253					
LT. STA. 15+00 TO STA. 28+46.71	1347					
LT. STA. 29+06.71 TO STA EQ 32+61.80 BK/ 35+97.80 AH	355					
LT. STA EQ 32+61.80 BK/ 35+97.80 AH TO STA. 138+38.56	10241					
LT. STA. 139+02.56 TO 191+56	5253					
RT. STA. 19+00 TO STA. 24+51			551			
RT. STA. 24+61 TO STA EQ 32+61.80 BK/ 35+97.80 AH		200				
RT. STA EQ 32+61.80 BK/ 35+97.80 AH TO STA. 38+29		58				
LT. & RT. STA. 38+39 TO STA. 191+56		3829				
LT. STA. 19+00 TO STA EQ 32+61.80 BK/35+97.80 AH			1362			
LT. STA EQ 32+61.80 BK/ 35+97.80 AH TO STA. 38+29			231			
*LT. & RT. STA. 15+00 TO STA. 19+00			1900	100		
Sta. 28+76.71 (Dieble Rd)					12	
Sta. 58+76.05 (Pleasant View Rd)					12	
Sta. 138+70.56 (Dee Mac Rd)					24	
WOODFORD COUNTY						4416
RT. STA. 191+56 TO STA. 231+94.28	4038					
RT. STA. 233+18.14 TO STA. 247+48.62	1430					
RT. STA. 248+94.22 TO STA EQ 254+90.40 BK/ 254+92.40 AH	596					
RT. STA EQ 254+90.40 BK/254+92.40 AH TO STA. 291+00	3608					
LT. STA. 191+56 TO STA EQ 254+90.40 BK/ 254+92.40 AH	6334					
LT. STA EQ 254+90.40 BK/ 254+92.40 AH TO STA. 291+00	3608					
RT. STA. 276+32 TO STA. 291+00			1468			
LT. & RT. STA. 191+56 TO STA. 276+22		2117				
LT. STA. 276+32 TO STA. 291+00		1468				
Sta. 233+01 (Co Rd 800 N)					12	
Sta. 248+33 (Co Rd 1200 E)					12	
Sta. 284+11 (Cruger Rd/Co Rd 900 N)					24	
TAZEWELL COUNTY SUB-TOTAL	*42528*			*100*	*48*	*6928*
WOODFORD COUNTY SUB-TOTAL	*24667*				*48*	*4416*
JOB TOTAL	67195			100	96	11344

*REFER TO CADD STD. 780001-D4

LOCATION	RAISED REFLECTIVE PAVEMENT MARKERS	RAISED REFLECTIVE MARKER REMOVAL
	TWO WAY AMBER	
	EACH	EACH
TAZEWELL COUNTY		
STA. 15+00 TO STA. 19+00	10	10
STA. 19+00 TO STA EQ 32+61.80 BK/35+97.80 AH	17	17
STA. EQ. 32+61.80 BK/ 35+97.80 AH to STA. 191+56	195	195
WOODFORD COUNTY		
STA. 191+56 TO STA. 229+87.72	48	48
STA. 229+87.72 TO STA. 253+11	58	58
STA. 253+11 TO STA. EQ. 254+90.40 BK/ 254+92.40 AH	2	2
STA. 254+90.40 BK/ 254+92.40 AH TO STA. 291+00	45	45
TAZEWELL COUNTY SUB-TOTAL	222	222
WOODFORD COUNTY SUB- TOTAL	153	153
JOB TOTAL	375	375



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		DRAWN -	REVISED -		
	PLOT SCALE = 100.0424 ' / In.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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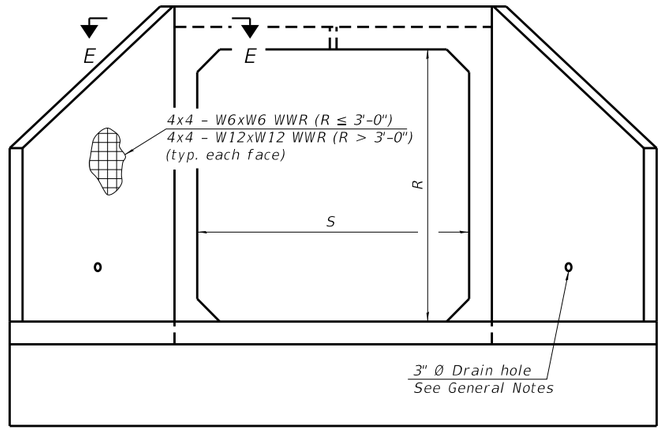
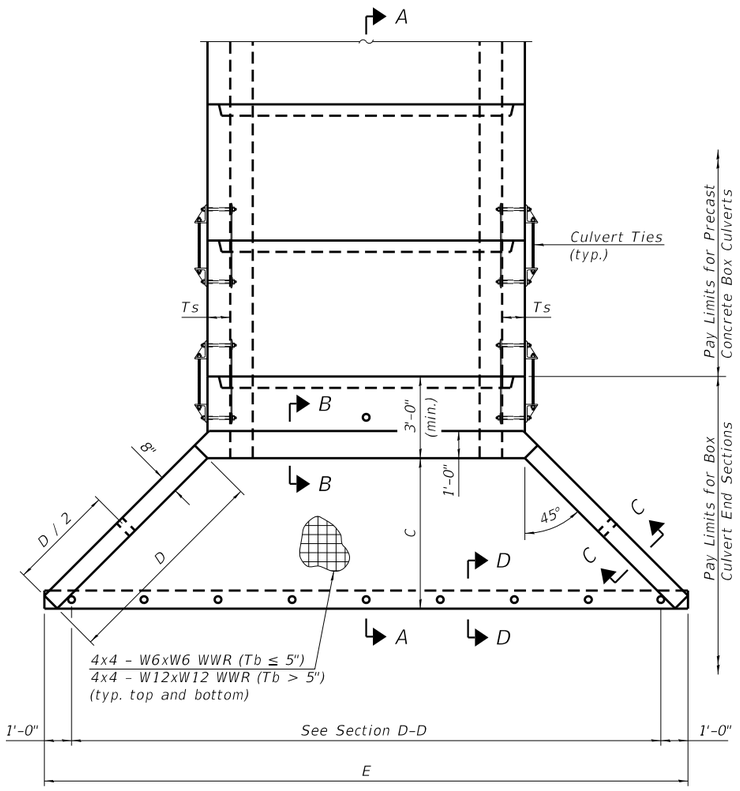
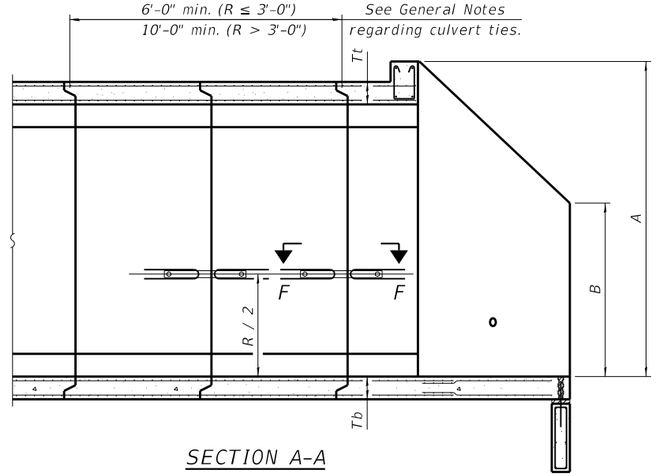


END VIEW



PLAN



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than ½" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10⅜"	4'-1"	10'-4⅝"	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7⅛"	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10⅜"	5'-6"	12-4⅝"	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7⅛"	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4½"	2'-2½"	2'-11⅜"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8½"	3'-10"	11'-2⅜"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4½"	2'-8½"	3'-11⅜"	5'-7"	13'-8⅛"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8½"	5'-3"	13'-2⅜"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4½"	3'-2½"	4'-11⅜"	7'-0"	15'-8⅛"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8⅝"	6'-8"	15'-2½"	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11⅜"	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7¼"	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11⅜	5'-7"	14'-10⅛"	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7¼"	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11⅜"	7'-0"	16'-10⅛"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9¼"	6'-9"	16'-5⅞"	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11⅜"	8'-5"	18'-10⅛"	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9¼"	8'-2"	18'-5⅞"	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11⅜"	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10⅝"	4'-1"	13'-10⅝"	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11⅜"	5'-7"	16'-0⅛"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10⅝"	5'-6"	15'-10⅝"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11⅜"	7'-0"	18'-0⅛"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10¾"	6'-11"	17'-10¾"	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11⅜"	8'-5"	20'-0⅛"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10¾"	8'-4"	19'-10¾"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11½"	9'-10"	22'-0¼"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10¾"	9'-9"	21'-10¾"	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11⅜"	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11⅜"	5'-7"	17'-2⅛"	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11⅜"	7'-0"	19'-2⅛"	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11⅜"	8'-5"	21'-2⅛"	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11½"	9'-10"	23'-2¼"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11⅜"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11⅜"	5'-7"	18'-2⅛"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11⅜"	7'-0"	20'-2⅛"	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11⅜"	8'-5"	22'-2⅛"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11½"	9'-10"	24'-2¼"	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0¾"	4'-4"	17'-6⅞"	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0¾"	5'-9"	19'-6⅞"	7.5	Yes
9'-0"	4'-0"	9'	9"	9"	5'-6"	3'-3"	5'-0¾"	7'-2"	21'-6⅞"	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0⅞"	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0⅛"	9'-11"	25'-5⅝"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1½"	4'-5"	18'-10¼"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1½"	5'-10"	20'-10¼"	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1½"	7'-3"	22'-10⅜"	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1½"	8'-8"	24'-10⅜"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1½"	10'-1"	26'-10⅜"	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2⅞"	4'-7"	20'-3⅛"	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2⅞"	6'-0"	22'-3⅛"	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2¼"	7'-4"	24'-1¾"	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2¼"	8'-9"	26'-1¾"	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2¼"	10'-2"	28'-1⅞"	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3⅝"	4'-8"	21'-6½"	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3⅝"	6'-1"	23'-6½"	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3⅝"	7'-6"	25'-6⅞"	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3⅝"	8'-11"	27'-6⅞"	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3⅝"	10'-4"	29'-6⅞"	17.4	Yes

Note:
Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

SCB-AES 2-17-2017

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		DRAWN -	REVISED -
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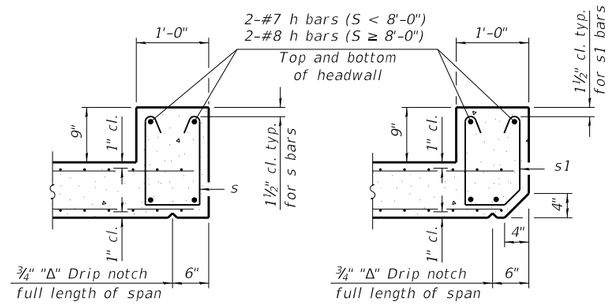
Default	PLOT DATE = 5/31/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS – STA 149+32

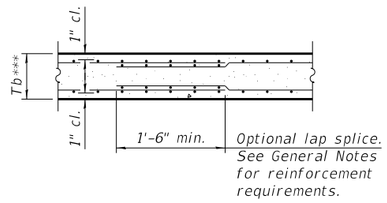
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	14
		CONTRACT NO. 68C97		
		ILLINOIS	FED. AID PROJECT	

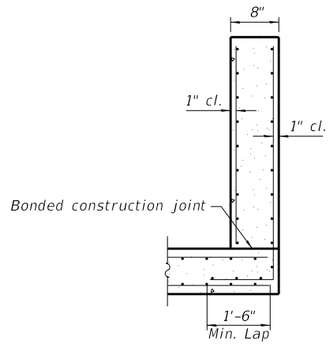


SECTION B-B
(Top slab at downstream end)

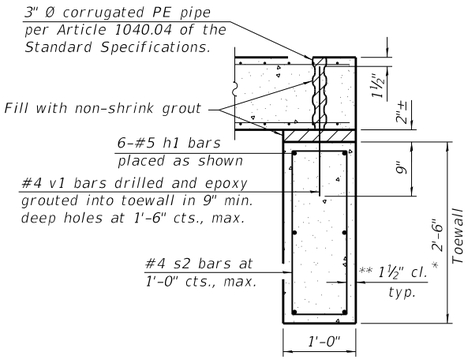
SECTION B-B
(Top slab at upstream end)



SECTION B-B
(Bottom Slab)

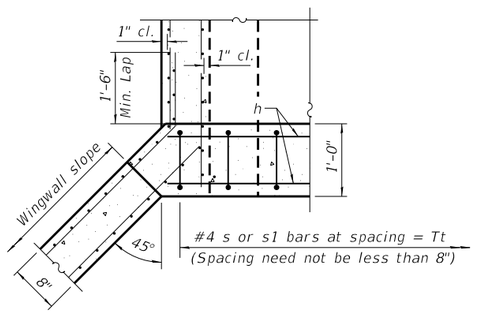


SECTION C-C

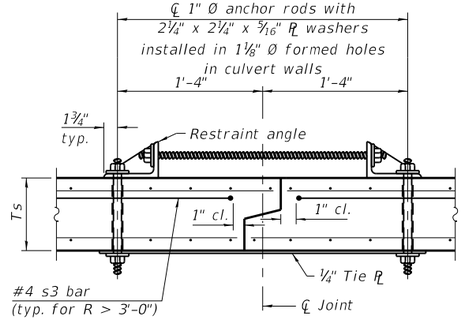


SECTION D-D

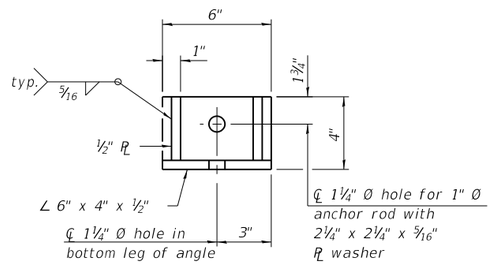
*** This dimension shall be increased by 2" for CIP construction.



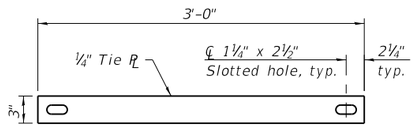
SECTION E-E



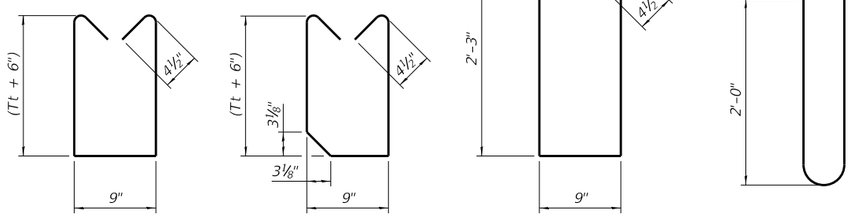
SECTION F-F
(Showing culvert tie details)



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL



BAR s

BAR s1

BAR s2

BAR s3

TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

Notes:

1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2¼"x2¼"x5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional ½ turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

SCB-AES 2-17-2017

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		DRAWN -	REVISED -
	PLOT SCALE = 100.0424 ' / In.	CHECKED -	REVISED -
Default	PLOT DATE = 5/31/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END
SECTION DETAILS – STA 149+32

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	15
		CONTRACT NO. 68C97		
		ILLINOIS	FED. AID PROJECT	

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	ILL	78	1923	30	31

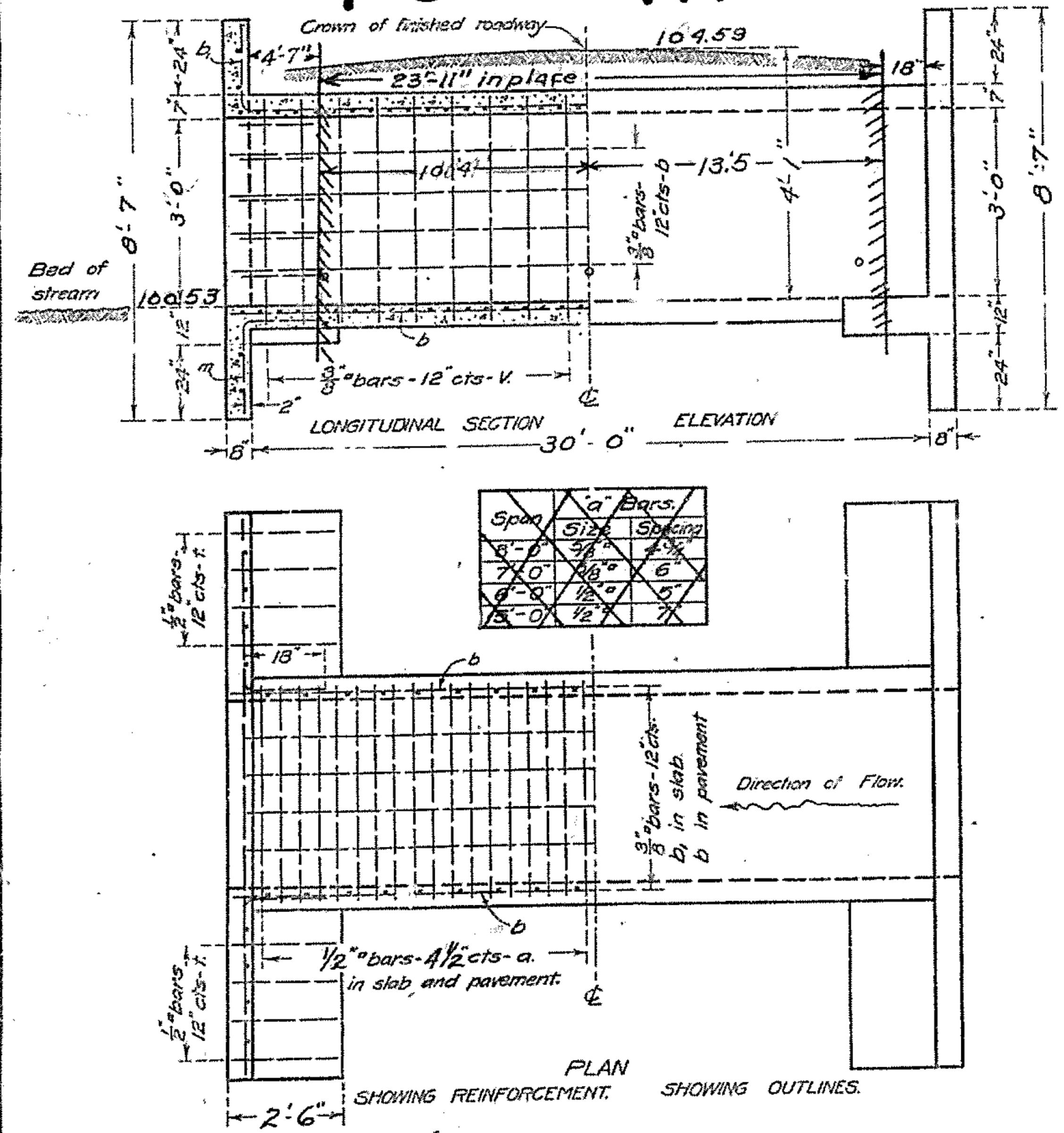
STATE OF ILLINOIS

STATE HIGHWAY DEPARTMENT

REINFORCED CONCRETE BOX CULVERT

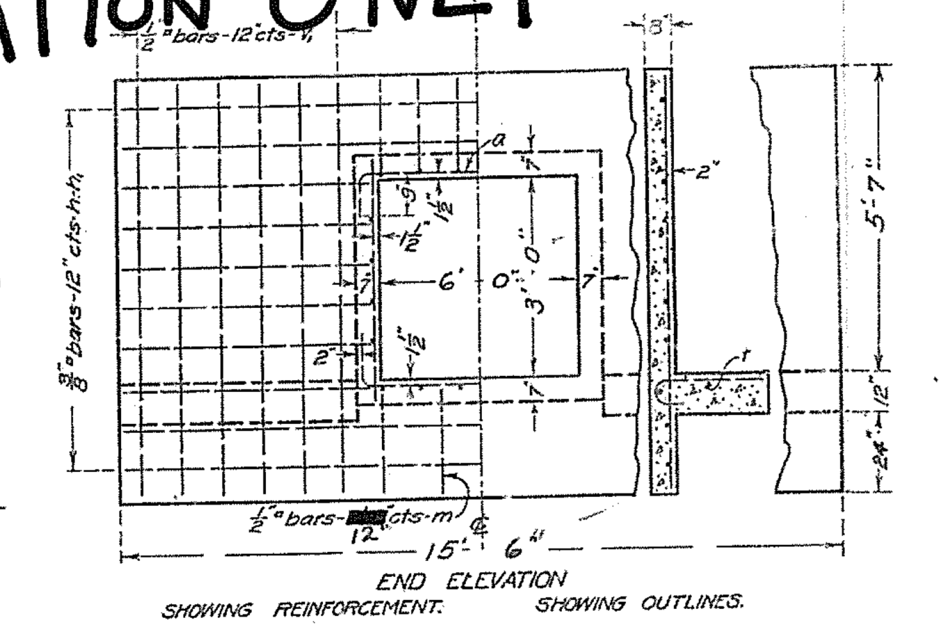
BOND ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
8	TAZEWELL WOODFORD	35	31	30

FOR INFORMATION ONLY



(struck out on drawing)

Span	"a" Bars. Size	Spacing
8'-0"	3/8"?	4½"?
7'-0"	5/8" ⌀	6"
9'-0"	½" ⌀	5"
15'-0"	½" ⌀	7"



Note - Use "m" bars in downstream headwall only.
Box is designed for no fill.
Maximum clearance = 7'-6"

BILL OF MATERIAL

Bars	No.	Size	Lgth
V	14	3/8" ⌀	39"
V₁	16	½" ⌀	80"
h	12	3/8" ⌀	1'-0"
h₁	6	3/8" ⌀	50"
h₂	6	3/8" ⌀	60"
a	50	½" ⌀	80"
b	—	3/8" ⌀	—
b₁	7	3/8" ⌀	70"
b₂	7	3/8" ⌀	40"
t	16	½" ⌀	30"
m	7	½" ⌀	[redacted] 8'-0"
Steel-Lbs.			7:0
Concrete-Cu. Yds.			.4

Class A concrete to be used througut
Proportions 1 - 2½ - 4.

Sta. 149+30
Route 8
Section 35
Tazewell-Woodford Co.

STANDARD	COMPUTED -	
	CHECKED -	
	DRAWN -	
	CHECKED -	
SPECIAL	ASSEMBLED -	
	CHECKED -	

J.F.D.

EXAMINED G. F. Burch
BRIDGE ENGINEER.

PASSED

ENGINEER OF DESIGN

APPROVED March 21, 1923,
STATE HIGHWAY ENGINEER.

619

USER NAME = mitchellag	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0424 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/31/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CULVERT DETAILS
FOR INFORMATION ONLY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL/ WOODFORD	26	16

CONTRACT NO. 68C97

ILLINOIS FED. AID PROJECT

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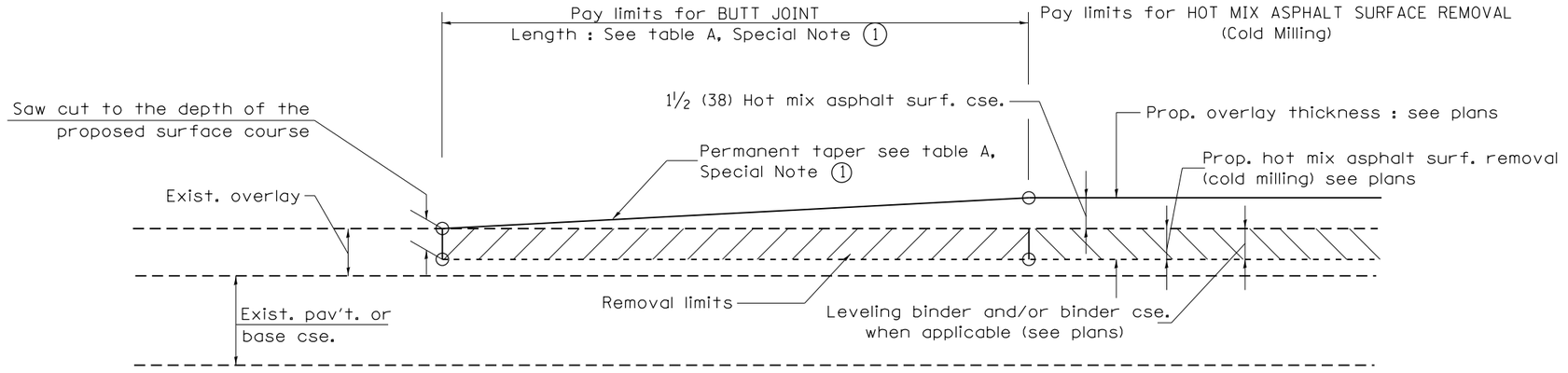


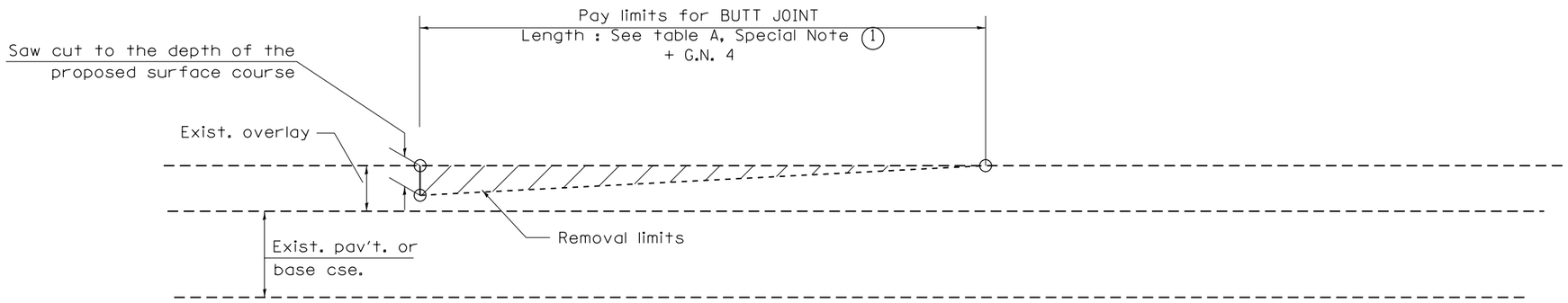
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

TABLE A
TAPER RATES

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
(1)	BUTT JOINT TAPER RATE	1:480	1:240
(2)	TEMPORARY RAMP TAPER RATE	1:80	1:40

GENERAL NOTES

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. 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.
3. 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.
4. The length of butt joint is based on the taper rate times change in cold miling depth within the butt joint pay limits, unless otherwise indicated.
5. Temporary ramps are paid for separately and not included in the cost of the butt joints.



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.	08-21-13	MAJOR MODIFICATIONS	R.D.
04-01-97	CORRECTION TO DEPTH	J.A.	02-29-16	MINOR CORRECTIONS	R.D.
09-15-05	REVISED DESIGNER NOTE	M.M.A.	04-12-16	MINOR CORRECTIONS	R.D.
10-16-06	REVISED TO 2007 SPEC.	M.A.	02-14-17	ADDED NOTE 5	R.D.

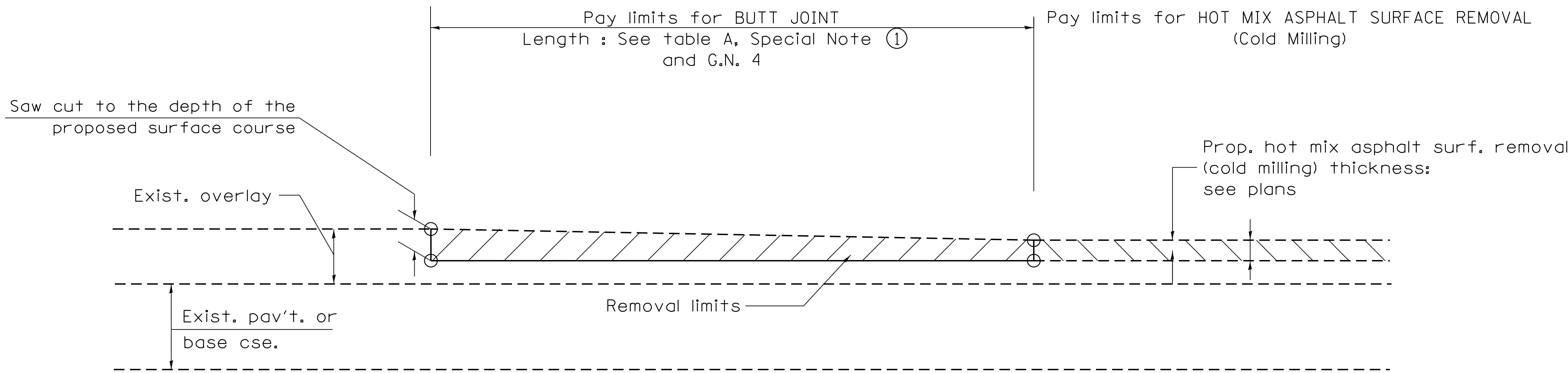
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

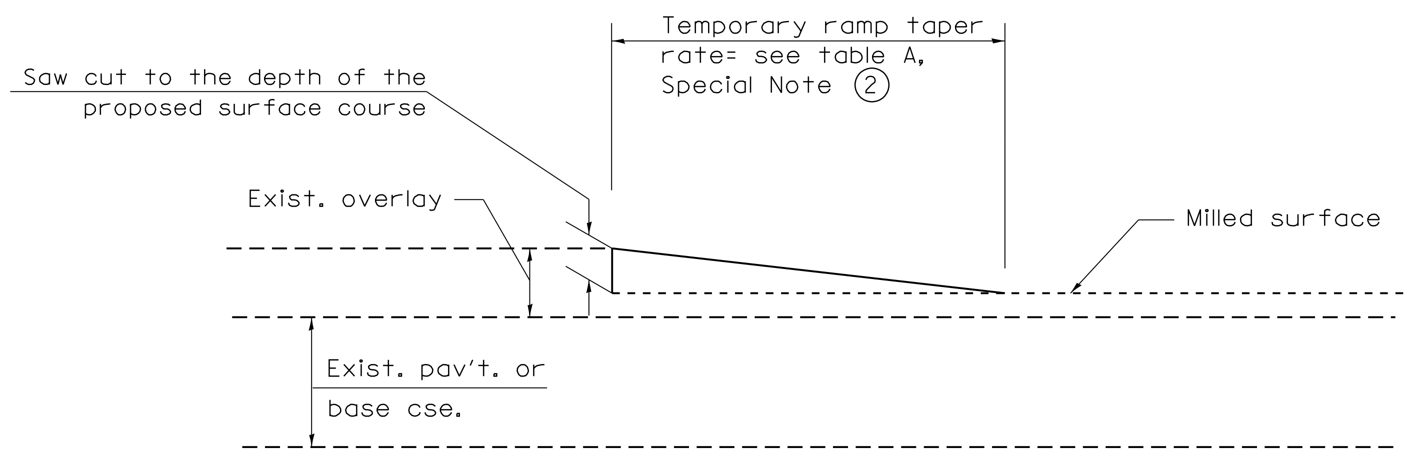
BUTT JOINTS

SHT. 1 OF 3
CADD STD. 406101-D4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	17
		CONTRACT NO. 68C97		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CASE 3 : 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.

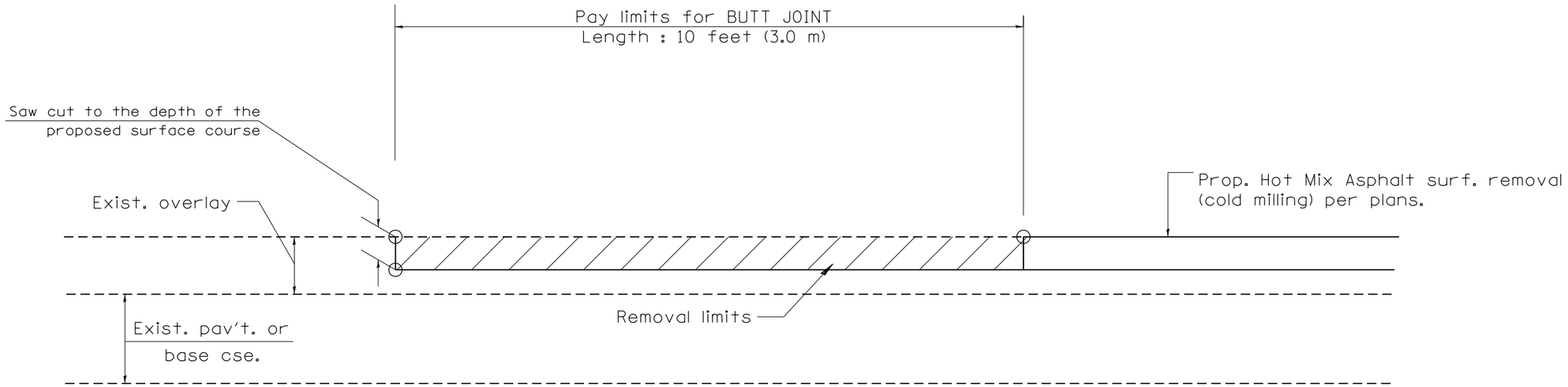
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

BUTT JOINTS

SHT. 2 OF 3
CADD STD. 406101-D4

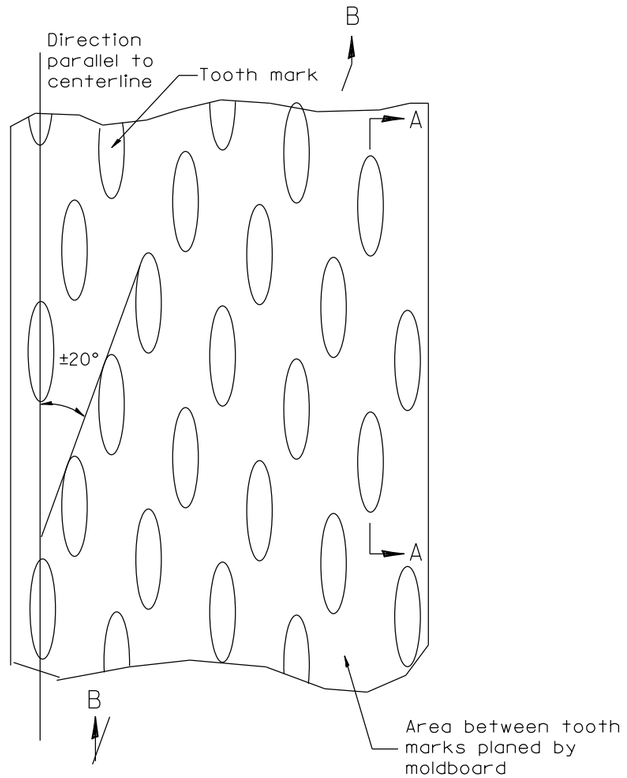
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	18
		CONTRACT NO. 68C97		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



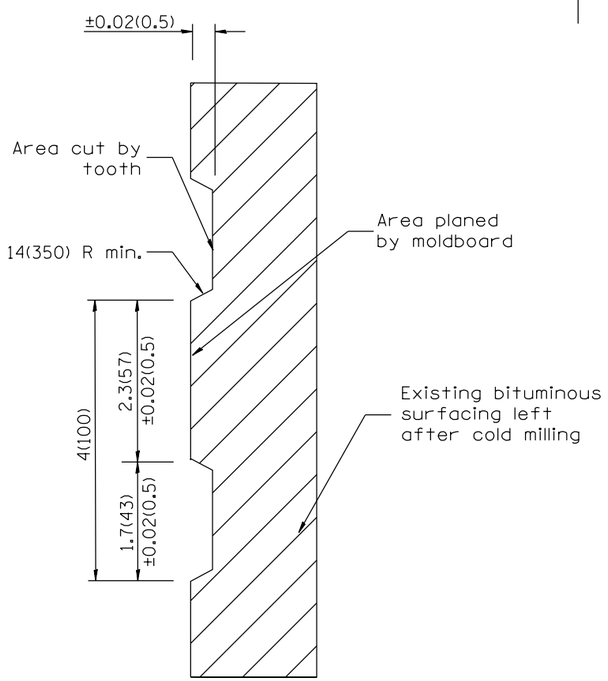
CASE 4 : SINGLE LIFT OVERLAY WITH EQUIVALENT DEPTH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING) TIE-IN TO EXISTING BITUMINOUS TAPER

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

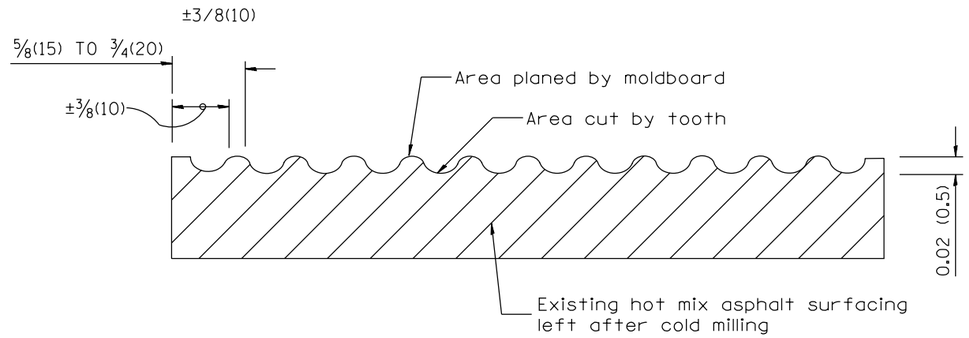
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**	**BUTT JOINTS** NOT TO SCALE SHT. 3 OF 3 CADD STD. 406101-D4	F.A.S. RTE. 368 · SECTION 35RS-9 · COUNTY TAZEWELL · TOTAL SHEETS 26 · SHEET NO. 19 CONTRACT NO. 68C97 FED. ROAD DIST. NO. · ILLINOIS · FED. AID PROJECT



PLAN



SECTION A-A



SECTION B-B PROJECTED
PERPENDICULAR TO CENTERLINE

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.

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.			

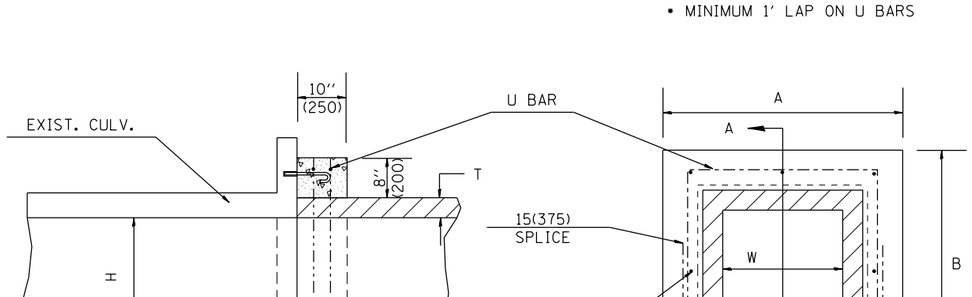
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

NOT TO SCALE — CADD STD. 440001-D4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	20
		CONTRACT NO. 68C97		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• MINIMUM 1' LAP ON U BARS



SECTION A - A

END VIEW

#4 U BAR
FOUR REQUIRED
PER COLLAR

GENERAL NOTES

1. The collar shall be constructed entirely of class SI concrete and in accordance with the applicable portions of section 503 of the Standard Specifications. Reinforcement bars shall conform to section 508.
2. Expansion bolts shall consist of approved expansions anchors, and ¾'' (M20) hook bolts which conform to Section 1006.09. These bolts shall extend at least 8''(200) into the new concrete.
3. This work will be paid for by the cubic yard (cubic meter) for CONCRETE COLLAR, by the pound (kg) for REINFORCEMENT BARS, and by Each for EXPANSION BOLTS of the size indicated.

DIMENSIONS

EXISTING BOX W ft (mm)	EXISTING BOX H ft (mm)	A	B	T	EACH COLLAR CL SI CU YD (m^3)	REINFORCEMENT BARS X	REINFORCEMENT BARS Y	REINFORCEMENT BARS POUNDS (kg)	EXPANSION BOLTS NO.
2 (600)	2 (600)	4'-0'' (1.22m)	4'-0'' (1.22m)	4(100)	0.27(0.21)	3'-4'' (1.02m)	27.5(698)	21 (9.5)	8
3 (900)	2 (600)	5'-0'' (1.52m)	4'-0'' (1.22m)	4(100)	0.32(0.24)	4'-4'' (1.32m)	27.5(698)	24 (11)	8
3 (900)	2.5 (750)	5'-0'' (1.52m)	4'-6'' (1.37m)	4(100)	0.34(0.26)	4'-4'' (1.32m)	30.5(774)	25 (11.5)	8
3 (900)	3 (900)	5'-0'' (1.52m)	5'-0'' (1.52m)	4(100)	0.36(0.28)	4'-4'' (1.32m)	33.5(850)	26.5 (12)	8
3 (900)	4 (1200)	5'-2'' (1.57m)	6'-2'' (1.88m)	5(125)	0.41(0.31)	4'-6'' (1.37m)	40.5(1.03m)	30 (13.5)	10
4 (1200)	3 (900)	6'-2'' (1.88m)	5'-2'' (1.57m)	5(125)	0.41(0.31)	5'-6'' (1.68m)	34.5(876)	30 (13.5)	10
4 (1200)	4 (1200)	6'-2'' (1.88m)	6'-2'' (1.88m)	5(125)	0.45(0.34)	5'-6'' (1.68m)	40.5(1.03m)	33 (15)	12
4 (1200)	5 (1500)	6'-4'' (1.93m)	7'-4'' (2.24m)	6(150)	0.51(0.39)	5'-8'' (1.73m)	3'-11.5''(1.21m)	36 (16.5)	14
5 (1500)	4 (1200)	7'-4'' (2.24m)	6'-4'' (1.93m)	6(150)	0.51(0.39)	6'-8'' (2.03m)	3'-5.5''(1.05m)	36 (16.5)	14
5 (1500)	5 (1500)	7'-4'' (2.24m)	7'-4'' (2.24m)	6(150)	0.55(0.42)	6'-8'' (2.03m)	3'-11.5''(1.21m)	39 (17.5)	16
5 (1500)	6 (1800)	7'-6'' (2.29m)	8'-6'' (2.59m)	7(175)	0.60(0.46)	6'-10'' (2.08m)	4'-6.5''(1.38m)	42.5 (19)	16
6 (1800)	4 (1200)	8'-6'' (2.59m)	6'-6'' (1.98m)	7(175)	0.56(0.43)	7'-10'' (2.39m)	3'-6.5''(1.08m)	40 (18)	14
6 (1800)	5 (1500)	8'-6'' (2.59m)	7'-6'' (2.29m)	7(175)	0.60(0.46)	7'-10'' (2.39m)	4'-0.5''(1.23m)	42.5 (19)	16
6 (1800)	6 (1800)	8'-6'' (2.59m)	8'-6'' (2.59m)	7(175)	0.64(0.49)	7'-10'' (2.39m)	4'-6.5''(1.38m)	45 (20.5)	16
6 (1800)	8 (2400)	8'-8'' (2.64m)	10'-8'' (3.25m)	8(200)	0.74(0.57)	8'-0'' (2.44m)	5'-7.5''(1.71m)	51.5 (23)	18
8 (2400)	8 (2400)	10'-8'' (3.25m)	10'-8'' (3.25m)	8(200)	0.82(0.63)	10'-0'' (3.05m)	5'-7.5''(1.71m)	57 (26)	20

DESIGNER NOTES:
1. IF USING A COLLAR SIZE NOT PROVIDED IN THE TABLE USE THE BLANK ROWS AT THE BOTTOM OF THE TABLE.

QUANTITIES

CALC. BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

DESIGNER NOTES:
1. CONSIDER USING A "B" CURB PAY ITEM AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE EQUAL TO OR GREATER THAN 1% AND AT INLETS. (INCLUDE DISTRICT SPECIAL PROVISION)

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

01-01-97	RENUM. J-12.01, METRICS, NEW REVISION BOX, REVISED	T.P.
	TITLE BOX, ADDED QUANTITY CALCULATION BOX	
10-16-06	REV. TO 2007 SPEC., REINF. BARS COL.	M.A.
2-15-11	ADDED GENERAL NOTE #3 & REVISED BAR LAP LENGTH	R.D.

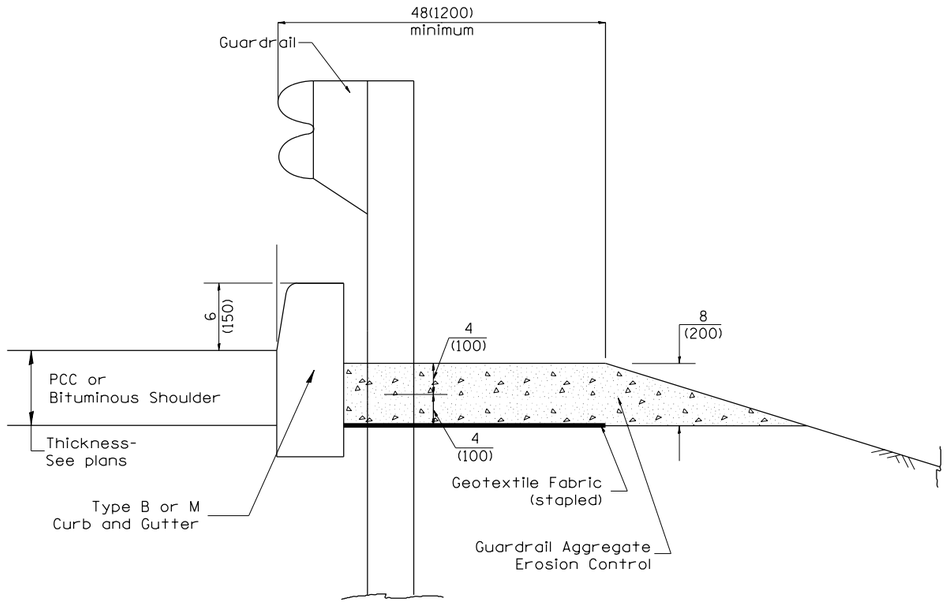
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COLLAR FOR BOX CULVERT EXTENSIONS

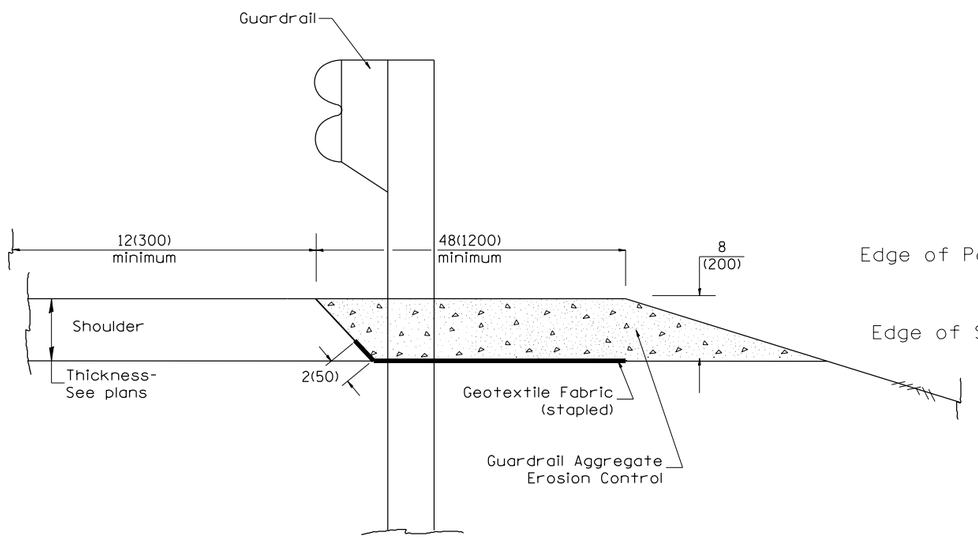
NOT TO SCALE — CADD STD. 540001-D4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	21
	CONTRACT NO.68C97			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

USE "GUARDRAIL AGGREGATE EROSION CONTROL" AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE LESS THAN 1: (INCLUDE DISTRICT SPECIAL PROVISION).
2. INCLUDE STATE STANDARD 610001, IF APPLICABLE.
3. INCLUDE THE FOLLOWING DISTRICT CADD STANDARDS AS NEEDED: SLOPE DRAINS FOR BURIED PIPES; SLOPE DRAINS FOR EXPOSED PIPES; SEEPAGE COLLARS FOR BURIED PIPES
4. 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.
6. DELETE DESIGNER NOTES WHEN INSERTING INTO PLAN FILES.
7. OPERATIONS PREFERS USE OF PIPE OUTLETTING ONTO FORESLOPE WITH RIPRAP. USE NON-METALLIC PIPE WHEN POSSIBLE BECAUSE OF FUTURE CORROSION ISSUES.
8. IF NO OTHER SEEDING IS PAID FOR ON THE CONTRACT, USE DISTRICT SPECIAL PROVISION FOR SEEDING, MINOR AREAS



TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

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.

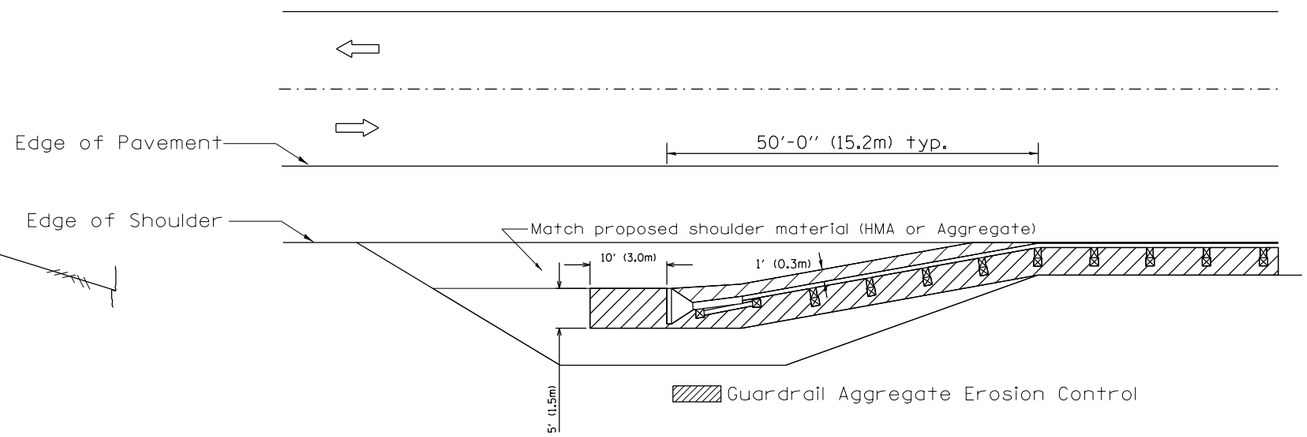
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.

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.



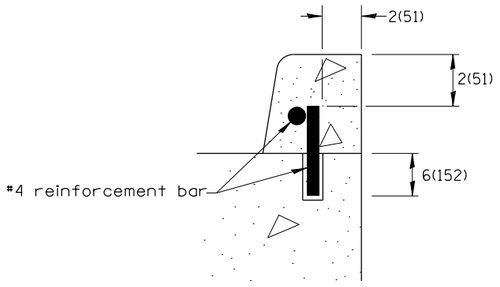
All dimensions are in inches (millimeters) unless otherwise noted.

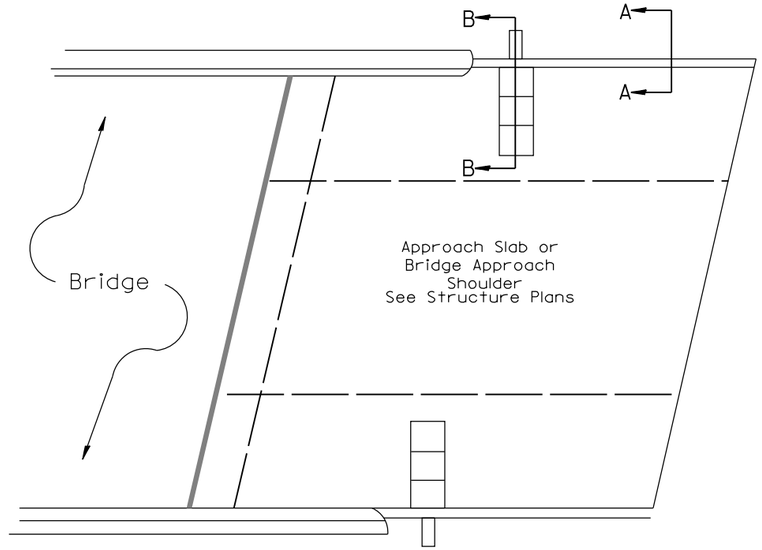
01-01-97	RENUM. C-22.01. NEW REVISION BOX	T.P.	03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.D.	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**GUARDRAIL EROSION CONTROL TREATMENTS**
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.	08-10-12	REVISED CURB "B" AND AGGREGATE	R.D.		
11-03-00	CORRECTION TO NOTES	M.A.	07-15-15	ADDRESSED SHOULDER INLET CURB	R.D.		SHT. 1 OF 2
10-16-06	REVISED TO 2007 SPEC.	M.A.	01-26-17	REVISED	R.D.	NOT TO SCALE	CADD STD. 630101-D4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	22
		CONTRACT NO. 68C97		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL ''A''

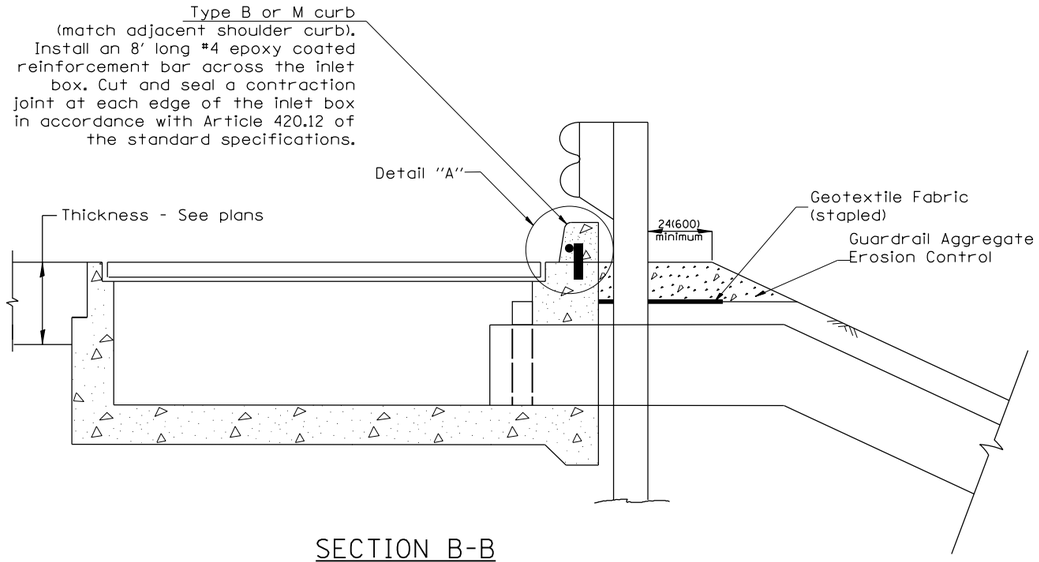
#4 reinforcement bars may be cast in PCC apron and precast inlet box or drilled and anchored with an apporoved chemical adhesive at 2' spacing. Cost of curb and reinforcement are included in the cost of shoulder inlet.





PLAN VIEW

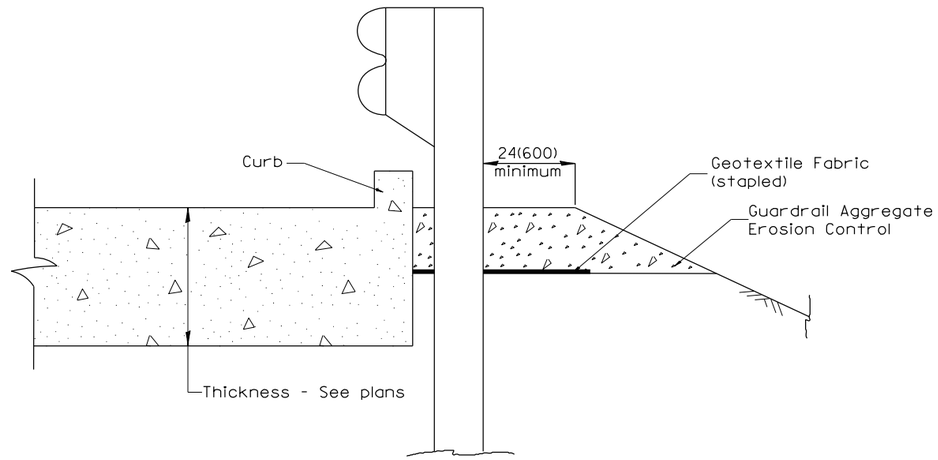
APPROACH SLAB OR SHOULDER PLACEMENT



SECTION B-B

TYPICAL SECTION AT INLETS

TYPE E, F & G (HIGHWAY STANDARD 610001)



SECTION A-A

TYPICAL SECTION WITH BRIDGE APPROACH CURB

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

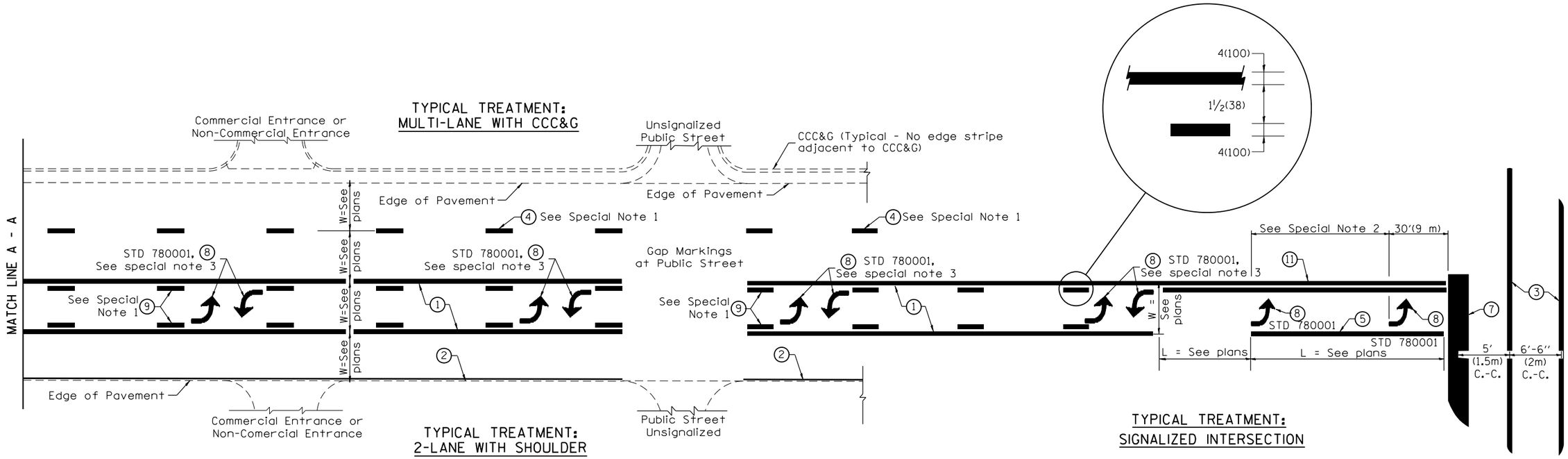
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

NOT TO SCALE

SHT. 2 OF 2
CADD STD. 630101-D4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	23
		CONTRACT NO. 68C97		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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) — 10' (3.05m) / 30' (9.14m) / 10' (3.05m) (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 — 33' (10m) (See Std. 780001 and Special Notes 2 & 3)
9. 4(100) Skip-Dash (Yellow) — 10' (3.05m) / 30' (9.14m) / 10' (3.05m) (See Special Note 1)
10. 12(300) Diagonal (Yellow) (See Table A)
11. 4(100) Double Solid (Yellow) — 11(280) C.-C., See Table A, 45°

SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversly 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.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:
   Through Arrow= 14.8 sq. ft.
   Large Left or Right Arrow= 21.9 sq. ft.
   2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
   Wrong Way Arrow= 29.5 sq. ft.
   Railroad Crossing Symbol= 69.8 sq. ft.
   (For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

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

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.	2/29/16	ADDED GROOVING AREAS	R.D.
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.			
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.			

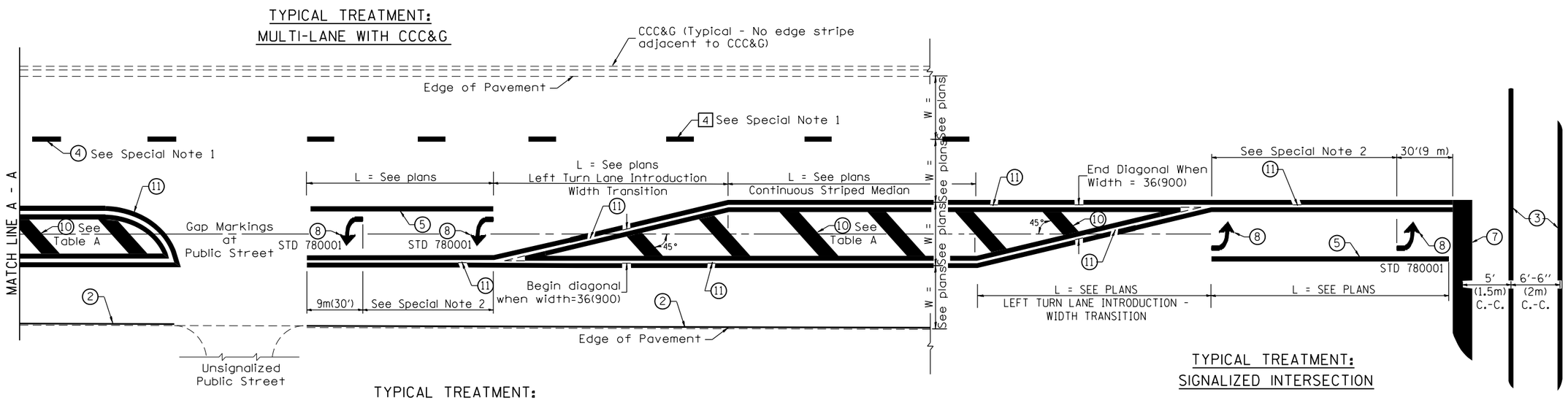
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS

NOT TO SCALE

SHT. 1 OF 2
CADD STD. 780001-D4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	24
		CONTRACT NO. 68C97		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

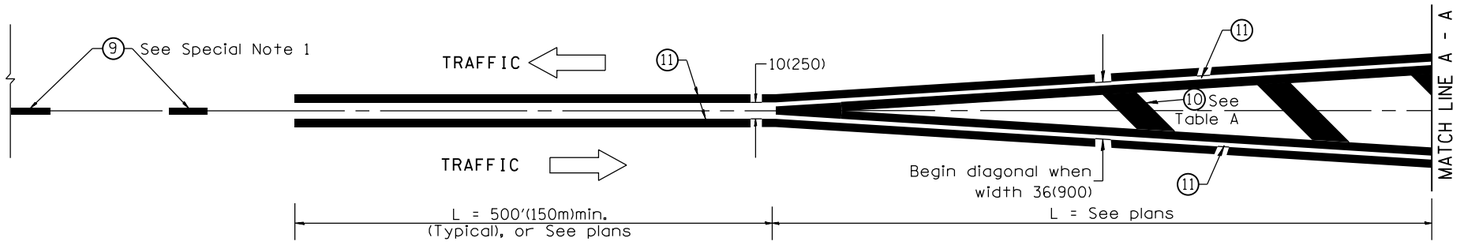


FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

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)



MEDIAN INTRODUCTION - WIDTH TRANSITIONS

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS

NOT TO SCALE

SHT. 2 OF 2
CADD STD. 780001-D4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	25
		CONTRACT NO. 68C97		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

765
760

EX. ROW
EX. ROW

1:3
1:6
1:7

149 + 32.05

EX. ROW
EX. ROW

1:2
1:2.5

149 + 00.00

EX. ROW
EX. ROW

1:3

148 + 50.00

EX. ROW
EX. ROW

148 + 00.00

EX. ROW
EX. ROW

147 + 50.00

EX. ROW
EX. ROW

151 + 00.00

EX. ROW
EX. ROW

150 + 50.00

EX. ROW
EX. ROW

1:2
1:3
26.02

150 + 00.00

EX. ROW
EX. ROW

1:2
1:2
22.65

149 + 50.00

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

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

FILE NAME = pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 4\Projects\D4_68C97\CADData\CADsheets\D468C97cover.dgn	USER NAME = mitchellag	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0424 ' / In.	CHECKED -	REVISED -
Default	PLOT DATE = 5/31/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 147+50.00 | TO STA. 151+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
368	35RS-9	TAZEWELL & WOODFORD	26	26
		CONTRACT NO. 68C97		
		ILLINOIS	FED. AID PROJECT	