

WOODLAWN OVERPASS

CITY OF O'FALLON, MISSOURI

CITY OF O'FALLON		
WOODLAWN OVERPASS	SHEET NUMBER	TOTAL SHEETS
	1	1
COVER SHEET		

STATE PROJECT NO. J6I1287

CONSTRUCTION PLANS PHASE I

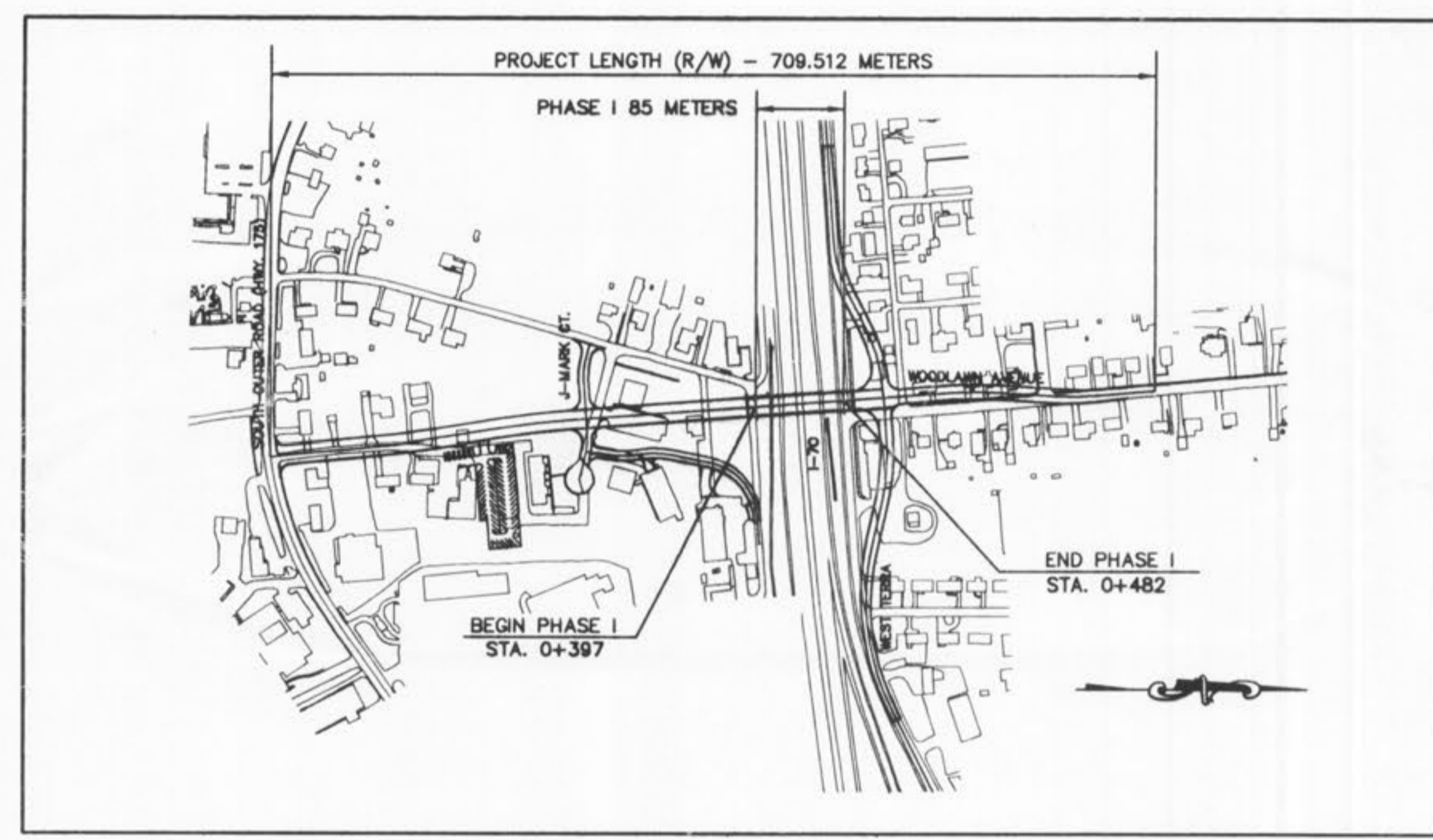
NOVEMBER 1998

LEGEND

ITEM	EXISTING	NEW
SHRUB		
TREE		
TREE LINE		
SIGN		
CHAIN LINK FENCE		
RETAINING WALL		
UTILITY POLE, W/GUY WIRE		
WATER METER		
WATER VALVE		
WATER SHUT OFF		
GAS VALVE		
GAS LINE		
WATER LINE		
STORM SEWER		
SANITARY SEWER		
UNDERGROUND TELEPHONE		
OVERHEAD TELEPHONE		
UNDERGROUND ELECTRIC		
OVERHEAD ELECTRIC		
EX. FIBEROPTIC CABLE		
MANHOLE (STORM, SANITARY)		
MANHOLE (WATER)		
GRATE INLET		
CURB INLET		
DOUBLE CURB INLET		
FIRE HYDRANT		
CONCRETE PAVEMENT		
ASPHALTIC CONCRETE PAVEMENT		
GUARDRAIL		
DRAINAGE V-DITCH		
PROPERTY LINE		
RIGHT OF WAY		
MoDOT RIGHT OF WAY		
T.S.C.L.		
CONSTRUCTION LIMITS		
PHASE II CONSTRUCTION		

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LOCATION MAP
NOT TO SCALE

BENCH MARKS

RM 59- ELEVATION 526.36 USGS CHISELED "□" ON THE EAST END OF ASPHALT STREET, OF THE SOUTHEAST CORNER OF PLACKMEIER DRIVE AND ERNST PLACE.

USGS ELEVATION 542.88. F 149 1935 STANDARD TABLET LOCATED AT THE NORTHWEST CORNER INTERSECTION OF NORFOLK & WESTERN RAILROAD AND HIGHWAY "M" (MAIN STREET).

NOTE

ALL WORK SHALL CONFORM TO THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 1996.

ABBREVIATIONS

TYPICAL	TYP.	LEFT	LT.	RIGHT OF WAY	R.O.W.
UTILITY POLE	U.P.	RIGHT	RT.	RIGHT OF WAY	R/W
TOP	T	EAST	E	EXISTING	EX.
FLOWLINE	F	NORTH	N	PROPOSED	PROP.
ADJUST TO GRADE	A.T.G.	SOUTH	S	CONSTRUCTION LIMITS	C.L.
USE IN PLACE	U.I.P.	WEST OR WIDE	W	POINT KNOWN	PK
TO BE REMOVED	T.B.R.	TEMPORARY SLOPE		CONTROL POINT	CP
TO BE REMOVED AND REPLACED	T.B.R.&R.	CONSTRUCTION LICENSE	T.S.C.L.	CLEANOUT	C.O.
TO BE REMOVED AND RELOCATED	T.B.R.&REL.	TO BE REMOVED BY OTHERS	T.B.R.B.O.	GRATE INLET	G.I.
PRIVATE ENTRANCE	P.E.	TO BE REMOVED AND REPLACED BY OTHERS	T.B.R.&R.B.O.	CURB INLET	C.I.
COMMERCIAL ENTRANCE	C.E.	CONVERT TO MANHOLE	C.T.M.H.	SIDEWALK	S.W.
TELEPHONE BOX	T.E.BOX	PERMANENT DRAINAGE EASEMENT	P.D.E.	VERTICAL CURB	V.C.
EDGE OF PAVEMENT	E.P.			YARD DRAIN	Y.D.
				NOT IN CONTACT	N.I.C.

UTILITY COMPANIES

UNION ELECTRIC JOHN CLARK 200 N. CALLAHAN ROAD WENTZVILLE, MO. 63385 PH. 639-8312 FAX 639-8250	LACLEDE GAS CO. VINCE TALLO 3950 FOREST PARK ST. LOUIS, MO. 63108 PH. 658-5496 PH. 946-8937 FAX 531-5334	DIGITAL TELEPORT, INC. REGGIE PURNELL 8112 MARYLAND, 4TH FLOOR CLAYTON, MO. 63105 PH. (314) 253-6638
S.W.B.T. W. BAXTIN 402 N. 3RD ST. CHARLES, MO. 63301 PH. 949-1321 FAX 949-1315	GTE BOB LIEURANCE JOE RUNKLES CARL OWENS JERRY KEETEMAN PH. 332-7332 FAX 639-6711	MISSOURI ONE CALL NUMBER (FOR PARTICIPATING UTILITIES) 1-800-DIG-RITE
		TCI CABLEVISION STEVE COLEMAN 4160 OLD MILL PKWY ST. PETERS, MO. 63376 PH. 441-7511



MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
SUMMARY OF QUANTITIES - METRIC

CITY OF O'FALLON		STP # J611287
WOODLAWN OVERPASS	SHEET NUMBER	TOTAL SHEETS
	A-1	..
SUMMARY OF QUANTITIES		

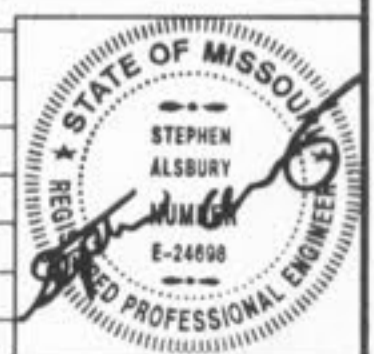
BRIDGE ITEMS - METRIC

ROADWAY ITEMS - METRIC (cont.)

QUANTITY	UNIT	ITEM NUMBER	DESCRIPTION (ALL METRIC ITEMS)	REMARKS	QUANTITY	UNIT	ITEM NUMBER	DESCRIPTION (ALL METRIC ITEMS)	REMARKS
160	cu. m.	206-10.05	CLASS I EXCAVATION						
175	m	607-15.54	1 065m PROPERTY FENCE (STRUCTURES)		0.15	Hectare	201-10.10	CLEARING	
695	m	702-05.12	STRUCTURAL STEEL PILES (310mm)		0.45	Hectare	201-20.10	GRUBBING	
161	m	702-60.05	PREBORE FOR PILING		1	Lump Sum	202-20.10	REMOVAL OF IMPROVEMENTS	
236.4	cu. m.	703-20.14	CLASS B CONCRETE (SUBSTR)		1 640	cu. m	203-10.05	CLASS A EXCAVATION	
1 529	sq. m	703-43.12	SLAB ON STEEL		11 260	cu. m	203-55.05	EMBANKMENT IN PLACE	
176	m	703-43.15	SAFETY BARRIER CURB		305	cu. m	206-30.05	CLASS 3 EXCAVATION	
273	sq. m.	703-43.25	SLAB ON SEMI-DEEP ABUTMENT		2 785	sq. m	301-26.99	BITUMINOUS BASE MIXTURE PG 64-22 (100mm THICK)	
190	sq. m.	703-44.35	SIDEWALK (BRIDGE)		3 643	sq. m	304-05.05	TYPE 5 AGGREGATE FOR BASE (100mm THICK)	
24	each	703-71.60	LAMINATED NEOPRENE BEARING PADS		2 785	sq. m	401-12.22	BITUMINOUS PAVEMENT MIXTURE PG. 64-22 (BP-1 MIX) (45 mm THICK)	
38	m	703-82.75	PREFORMED COMPRESSION EXPANSION JOINT SEAL (89mm)		636	sq. m	502-11.27	CONCRETE PAVEMENT (175mm NON-REINFORCED)	SANDERS
9 095	kg	706-10.65	REINFORCING STEEL		1	each	604-20.10	ADJUSTING MANHOLE	
6 860	kg	710-10.05	REINFORCING STEEL (EPOXY COATED)		7.5	m	606-10.15	GUARDRAIL TYPE A	
124 335	kg	712-10.25	FABRICATED STRUCTURAL CARBON STEEL (PLATE GIRDER)		1	each	606-22.05	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB)	
82 810	kg	712-11.25	FABR. STRUCTURAL LOW ALLOY STEEL (PLATE GIRDER) GR. 345		1	each	606-23.05	TRANSITION SECTION, 1830MM POST	
4	each	712-36.99	BRIDGE SCUPPER		61	m	607-15.50	CHAIN-LINK FENCE (RETAINING WALLS)	
2 700	sq. m	712-57.85	INTERMEDIATE FIELD COAT (SYSTEM G) GRAY		86	sq. m	608-55.07	PAVED APPROACH (175mm THICK)	
590	sq. m	712-57.90	FINISH FIELD COAT (SYSTEM G) GRAY		61	m	609-10.44	CONCRETE GUTTER TYPE B	
					145	m	609-25.11	INTEGRAL CURB (150mm HEIGHT AND UNDER) TYPE A	
					1061	sq. m	611-60.15	CONCRETE SLOPE PROTECTION	
					8	each	612-10.30	MOVABLE BARRICADE	
					130	kg	614-10.15	GRATES & BEARING PLATES	
					4	each	614-30.10	MANHOLE FRAME & COVER, TYPE 1-A	
					3	each	614-30.13	MANHOLE FRAME & COVER, TYPE 3	
					12	month	615-10.00	OFFICE FOR ENGINEER	
					65	sq. m	616-10.06	CONSTRUCTION SIGNS	
					80	each	616-10.20	CHANNELIZER (DRUM)	
					30	each	616-10.20	WARNING LIGHT TYPE B	
					4	each	616-10.40	FLASHING ARROW PANEL	
					80.0	m	617-10.15	CONCRETE TRAFFIC BARRIER, TYPE A	I-70 MEDIAN
					60.0	m	617-10.25	CONCRETE TRAFFIC BARRIER, TYPE B	
					182	m	617-50.05	TEMPORARY TRAFFIC BARRIER	MSE WALL
					1	Lump Sum	618-10.00	MOBILIZATION	
					100	m	620-53.12	PREFORMED REMOVABLE MARKING TAPE (100mm INTERMITTENT WHITE)	I-70
					412	m	620-60.20	100mm SOLID WHITE PAINT STRIPE	WEST TERRA BY PASS
					402	m	620-60.21	100mm SOLID YELLOW PAINT STRIPE	WEST TERRA BY PASS
					100	m	620-60.22	100mm INTERMITTENT WHITE PAINT STRIPE	I-70
					18	m	620-61.28	PAVEMENT MARKING PAINT, 600mm WIDE (WHITE)	STOP BARS
					482	m	620-64.34	CONCRETE TRAFFIC BARRIER MARKING 325 mm WIDE (SOLID YELLOW)	TEMP & TYPE A
					90	m	620-70.15	PAVEMENT STRIPE REMOVAL (PAINT)	I-70
					263.6	sq. m	703-25.16	CONCRETE FACE PANELS	
					37	m	725-08.24	600mm PIPE CULVERT GROUP B	
					91	m	726-18.12	300mm CLASS III REINFORCED CONCRETE PIPE CULVERT (GASKET TYPE)	
					79.5	m	726-32.12	300mm CLASS V REINFORCED CONCRETE PIPE CULVERT (GASKET TYPE)	
					55.0	m	726-54.99	200mm POLYVINYL CHLORIDE PIPE CULVERT	
					11	m	731-05.48	PRECAST CONCRETE MANHOLE (1219 mm)	
					4	m	731-15.30	PRECAST CONCRETE DROP INLET 914 X 762mm (CURB INLET, TYPE T)	
					1	each	731-15.32	PRECAST CONCRETE DROP INLET 914x610mm (TYPE S3)	
					3	each	732-05.12	300mm FLARED END SECTION	
					2	each	732-05.24	600mm FLARED END SECTION	
					0.45	Hectare	802-30.05	TYPE 3 MULCH	
					0.45	Hectare	805-10.05	SEEDING	
					450	m	806-10.39	SILT FENCE	

EARTHWORK SUMMARY - METRIC

LOCATION	EXCAVATION	FILL
	CLASS 'A'	
BRIDGE ENDS	0 cu. m	10 975 cu. m
NORTH BY PASS (WEST TERRA)	1 110 cu. m	275 cu. m
SOUTH BY PASS (SANDERS)	530 cu. m	10 cu. m
SUBTOTAL	1 640 cu. m	11 260 cu. m
15% SHRINKAGE		1 690 cu. m
TOTAL	1 640 cu. m	12 950 cu. m
APPARENT BORROW		11 310 cu. m



MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
SUMMARY OF QUANTITIES - METRIC

CITY OF O'FALLON		STP # J61287
WOODLAWN OVERPASS	SHEET NUMBER	TOTAL SHEETS
	B1-1	..
SUMMARY OF QUANTITIES		

NON-REINFORCED CONCRETE PAVEMENT									
LOCATION	STATION	STATION	SIDE	WIDTH	150mm	175mm	225mm	TYPE "5" AGG. BASE (100mm)	REMARKS
					CONC.	CONC.	CONC.		
					sq. m.	sq. m.	sq. m.		
SANDERS	0+088.000	0+175.677	BOTH	VARIES	-	636	-	688	
TOTALS						636	-	688	

CONCRETE APPROACH						
LOCATION	STATION	SIDE	WIDTH	175mm	TYPE "5" AGG.	REMARKS
				CONC.	BASE (100mm)	
				sq. m.	sq. m.	
SANDERS	0+102.079	RT.	7.9m	30.4	30.4	
	0+181.718	RT.	11.6m	55.4	55.4	
TOTALS				86	86	

INTEGRAL CURB (150mm HEIGHT AND UNDER)					
LOCATION	STATION	STATION	SIDE	LENGTH	REMARKS
				m	
SANDERS	0+088.000	0+175.677	BOTH	145	
TOTALS				1430.83	

ASPHALTIC CONCRETE AND APPURTANCES								
LOCATION	STATION	STATION	SIDE	WIDTH	100mm	45mm	TYPE "5" AGG.	REMARKS
					BITUMINOUS BASE MIX	BITUMINOUS PAVEMENT MIX	BASE (100mm)	
					sq. m.	sq. m.	sq. m.	
WEST TERRA BY PASS	0+032	0+240	BOTH	10.97	2 280	2 280	2 405	
SANDERS BY PASS	0+010	0+080	BOTH	7.2	505	505	550	
TOTALS					2 785	2 785	2 955	

CONCRETE FACE PANELS						
LOCATION	STATION	OFFSET	STATION	OFFSET	sq. m.	REMARKS
WOODLAWN	0+357.054	29.299m	0+413.478	20.989m	60.483	
TOTALS					60.483	

CONCRETE GUTTER, TYPE B							
LOCATION	STATION	OFFSET	STATION	OFFSET	SIDE	m	REMARKS
WOODLAWN	0+357.054	28.820m	0+413.833	20.628m	LT.	61	
TOTALS						61	

REMOVAL OF IMPROVEMENTS							
LOCATION	STATION	STATION	SIDE	LENGTH	WIDTH	AREA	REMARKS
				m	m	sq. m.	
WOODLAWN	0+497.856	-	LT	-	-	414.776	BUILDING
WEST TERRA	0+245.816	-	LT	-	-	29.315	BUILDING
	0+258.821	-	LT	-	-	47.791	BUILDING
	0+272.552	-	RT	-	-	142.148	BUILDING
I-70				80.000			BARRIER WALL
TOTALS						1 LUMP SUM	

CHAIN-LINK FENCE (RETAINING WALLS)						
LOCATION	STATION	OFFSET	STATION	OFFSET	SIDE	m
WOODLAWN	0+357.054	29.299m	0+413.478	20.989m	LT.	61
TOTALS						61

CONCRETE SLOPE PROTECTION								
LOCATION	STATION	OFFSET	SIDE	STATION	OFFSET	SIDE	sq. m.	REMARKS
WOODLAWN	0+404.700	10.610m	BOTH	0+415.782	10.610m	BOTH	530.5	
	0+471.827	10.610m	BOTH	0+474.330	10.610m	BOTH	530.5	
TOTALS							1 061	

CONCRETE BARRIER, TYPE B						
LOCATION	STATION	OFFSET	STATION	OFFSET	SIDE	m
WOODLAWN	0+356.746	30.211m	0+412.943	21.528m	LT.	61
TOTALS						61



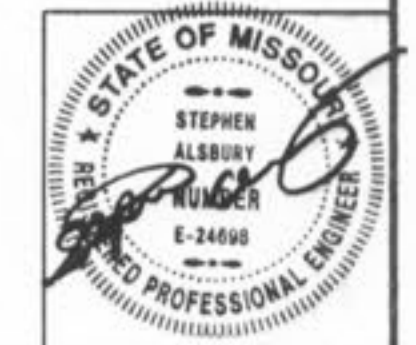
SUMMARY OF QUANTITIES - METRIC

SIGN	SIZE (mm)	AREA (m ²)	QTY.	TOTAL AREA (m ²)	QTY. RELOC.	TOTAL RELOC. AREA (m ²)	DESCRIPTION (ALL METRIC ITEMS)
WARNING SIGNS							
W01-1Lb	200X1200	1.44					TURN (SYMBOL LEFT ARROW)
W01-1Rb	200X1200	1.44					TURN (SYMBOL RIGHT ARROW)
W01-2Lb	200X1200	1.44	2	2.88			CURVE (SYMBOL LEFT ARROW)
W01-2Rb	200X1200	1.44	2	2.88			CURVE (SYMBOL RIGHT ARROW)
W01-3Lb	200X1200	1.44					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3Rb	200X1200	1.44					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4Lb	200X1200	1.44	2	2.88			REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4Rb	200X1200	1.44	2	2.88			REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-6	1200X600	0.72	6	4.32			HORIZONTAL ARROW (SYMBOL)
W01-6a	1800X900	1.62					HORIZONTAL ARROW (SYMBOL)
W01-7	1200X600	0.72					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	1800X900	1.62					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-8	450X800	0.27					CHEVRON (SYMBOL)
W03-1b	200X1200	1.44					STOP AHEAD
W03-2b	200X1200	1.44					YIELD AHEAD
W03-3b	200X1200	1.44					SIGNAL AHEAD (SYMBOL)
W03-4b	200X1200	1.44					BE PREPARED TO STOP
W04-1Lb	200X1200	1.44					MERGE (SYMBOL FROM LEFT)
W04-1Rb	200X1200	1.44					MERGE (SYMBOL FROM RIGHT)
W05-1a	200X1200	1.44	2	2.88			ROAD NARROWS
W05-3a	200X1200	1.44					ONE LANE BRIDGE
W06-1b	200X1200	1.44					DIVIDED HIGHWAY
W06-2b	200X1200	1.44					DIVIDED HIGHWAY ENDS
W06-3b	200X1200	1.44					TWO WAY TRAFFIC (SYMBOL)
W06-3x	600X450	0.27					TWO WAY TRAFFIC (PLAQUE)
W08-1b	200X1200	1.44					BUMP
W08-2b	200X1200	1.44					DIP
W08-3b	200X1200	1.44					PAVEMENT ENDS
W08-4b	200X1200	1.44					SOFT SHOULDER
W08-5b	200X1200	1.44					SLIPPERY WHEN WET (SYMBOL)
W08-6b	200X1200	1.44					TRUCK CROSSING
W08-6c	200X1200	1.44					TRUCK ENTR. (Incl. 1000FT/1500 FT plate W025-1a)
W08-7a	900X900	0.81					LOOSE GRAVEL
W08-9a	200X1200	1.44	1	1.44			LOW SHOULDER
W09-1R	200X1200	1.44					RIGHT LANE ENDS (Incl. LEFT/CENTER plate W025-3c)
W09-2Ra	200X1200	1.44					LANE ENDS MERGE RIGHT (Incl. LEFT plate W025-3b)
W10-1a	1050 Dia.	0.87					RAILROAD CROSSING
W012-1	600X600	0.36					DOUBLE DOWN ARROW (SYMBOL)
W012-2a	200X1200	1.44					LOW CLEARANCE (SYMBOL)
W012-2x	600X450	0.27					LOW CLEARANCE (PLAQUE)
W012-3a,b	3650X600	2.19					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W013-1a	600X600	0.36					ADVISORY SPEED (PLAQUE)
W020-2	200X1200	1.44	3	4.32			DETOUR AHEAD (Incl. 500 FT/1000 FT plate W025-1a)
W020-4a	200X1200	1.44					ONE LANE ROAD AHEAD (Incl. 1000 FT/1500 FT plate W025-1a)
W020-5	200X1200	1.44	2	2.88			RT. LANE CLOSED AHEAD (Incl. LEFT/CENTER plate W025-3d)
W020-6a	200X1200	1.44	2	2.88			RT. LANE CLOSED (Incl. LEFT/CENTER plate W025-3c)
W020-7a	200X1200	1.44					FLAGGER (SYMBOL)
W020-7x	650X450	0.27					500 FT/1000 FT (PLAQUE)
W020-9c	200X1200	1.44	1	1.44			OPEN TRENCH
W021-2a	200X1200	1.44					FRESH OIL
W021-4	200X1200	1.44	7	10.08			ROAD WORK AHEAD
W021-5b	200X1200	1.44	1	1.44			SHOULDER WORK AHEAD
W022-1	200X1200	1.44					BLASTING ZONE 1000 FT
W022-2	1050X900	0.95					TURN OFF 2-WAY RADIO
W022-3	1050X900	0.95					END BLASTING ZONE
W022-5	900X900	0.81					NO PASSING ZONES UNMARKED
W025-1a	650X225						1000 FT/1500 FT Plate
W025-1b	965X225						500 FT/1000 FT Plate
W025-1c	860X225						500 FT/1000 FT Plate

SIGN	SIZE (mm)	AREA (m ²)	QTY.	TOTAL AREA (m ²)	QTY. RELOC.	TOTAL RELOC. AREA (m ²)	DESCRIPTION (ALL METRIC ITEMS)
W025-3b	760X225						LEFT Plate
W025-3c	825X225						LEFT/CENTER Plate
W025-3d	550X225						LEFT/CENTER Plate
W025-5	750X300						1/2 MILE/1 MILE (PLAQUE)
W025-6	700X225						RAMP/BRIDGE Plate
REGULATORY SIGNS							
R1-1b	200X1200	1.44	5	7.2			STOP
R1-2a	1200X1200 X1200	0.82					YIELD
R2-2x	900X900	0.81					TO ONCOMING TRAFFIC (PLAQUE)
R1-3	500X225	0.11					4 WAY (PLAQUE)
R1-5	500X225	0.11	3	0.33			3-WAY (PLAQUE)
R2-1b	900X1200	1.08	2	2.16			SPEED LIMIT XX
R2-5	900X1200	1.08	2	2.16			REDUCE SPEED AHEAD
R3-1b	900X900	0.81					NO RIGHT TURN
R3-2b	900X900	0.81					NO LEFT TURN
R3-3a	900X900	0.81					NO TURNS
R3-4b	900X900	0.81					NO U-TURNS
R3-7L	750X750	0.56					LEFT LANE MUST TURN LEFT
R3-7R	750X750	0.56					RIGHT LANE MUST TURN RIGHT
R4-1b	900X1200	1.08					DO NOT PASS
R4-2b	900X1200	1.08					PASS WITH CARE
R4-7Lb	900X1200	1.08					KEEP LEFT (HORIZONTAL ARROW)
R4-7Rb	900X1200	1.08					KEEP RIGHT (HORIZONTAL ARROW)
R4-17L	900X900	0.81					KEEP LEFT
R4-17R	900X900	0.81					KEEP RIGHT
R5-1	750X750	0.56					DO NOT ENTER
R5-1a	900X800	0.54					WRONG WAY
R6-1La	1200X450	0.54					ONE WAY ARROW (LEFT)
R6-1Ra	1200X450	0.54					ONE WAY ARROW (RIGHT)
R6-2La	600X750	0.45					ONE WAY (LEFT)
R6-2Ra	600X750	0.45					ONE WAY (RIGHT)
R11-2	1200X750	0.90	6	5.4			ROAD CLOSED
R11-3	1500X750	1.13					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	1500X750	1.13					ROAD CLOSED TO THRU TRAFFIC
R12-3b	900X900	0.81					TO ONCOMING TRAFFIC (PLAQUE)
S4-4a	900X450	0.41					WHEN FLASHING
GUIDE SIGNS							
G020-1	1500X900	1.35	2	2.70			ROAD WORK NEXT XX MILES
G020-2	1500X600	0.90	8	7.2			END ROAD WORK
M04-8a	750X375	0.28					END DETOUR
M04-9L	1200X900	1.08					DETOUR (LEFT ARROW)
M04-9R	1200X900	1.08					DETOUR (RIGHT ARROW)
M0R-11	600X450	0.27					DETOUR ENDS
M5-1L	525X375	0.20					ADVANCE LEFT TURN ARROW
M5-1R	525X375	0.20					ADVANCE RIGHT TURN ARROW
MISCELLANEOUS SIGNS							
	150X750	0.11					
	1050X900	0.95					
				616-10.06 CONSTRUCTION SIGNS TOTAL * 65			
				616-10.11 RELOCATED SIGNS TOTAL			

ITEM NO.	UNIT	TOTAL QTY.	DESCRIPTION (ALL METRIC ITEMS)
612-20.30	EACH		RELOCATE IMPACT ATTENUATOR
616-10.20	EACH	80	CHANNELIZER (Drum)
616-10.30	EACH	8	MOVABLE BARRICADE
616-10.35	EACH		TYPE I BARRICADE (One Roll)
616-10.36	EACH		TYPE II BARRICADE (Two Rolls)
616-10.40	EACH	4	FLASHING ARROW PANEL
616-10.45	EACH		TYPE I OBJECT MARKER
616-10.46	EACH		TYPE II OBJECT MARKER
616-10.50	EACH		FLASHING ELECTRIC LIGHT
616-10.51	EACH		WARNING LIGHT TYPE A
616-10.52	EACH	30	WARNING LIGHT TYPE B
616-10.53	EACH		WARNING LIGHT TYPE C
616-10.54	EACH		STROBE LIGHT
616-10.60	EACH		RAISED PAVEMENT MARKER
616-10.70	EACH		FLEXIBLE DELINEATOR
619-10.05	METER		PAVEMENT EDGE TREATMENT
617-50.05	METER	182	TEMPORARY TRAFFIC BARRIER
620-53.12	METER	100	PREFORM. REMOV. MARKING TAPE, INT. WHITE
620-55.06	METER		THERMOPLAST. MARKING MATERIAL, INT. WHITE
620-64.34	METER	482	CONC. TRAFFIC BARRIER MARKING (YELLOW)
621-10.00	METER	90	PAVEMENT STRIPE REMOVAL (PAINT)
621-10.10	METER	3120	PAVEMENT MARKING REMOVAL (TAPE)

* ALL CONSTRUCTION SIGNS SHALL BE PORTABLE AT NO ADDITIONAL COST.

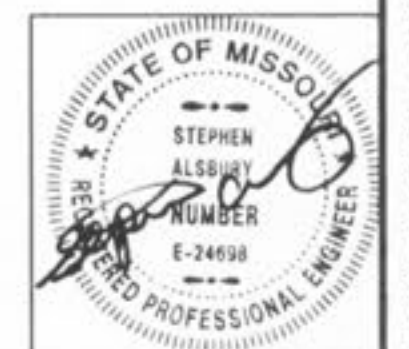


B1-2-DWG 10-31-98 4:09:31

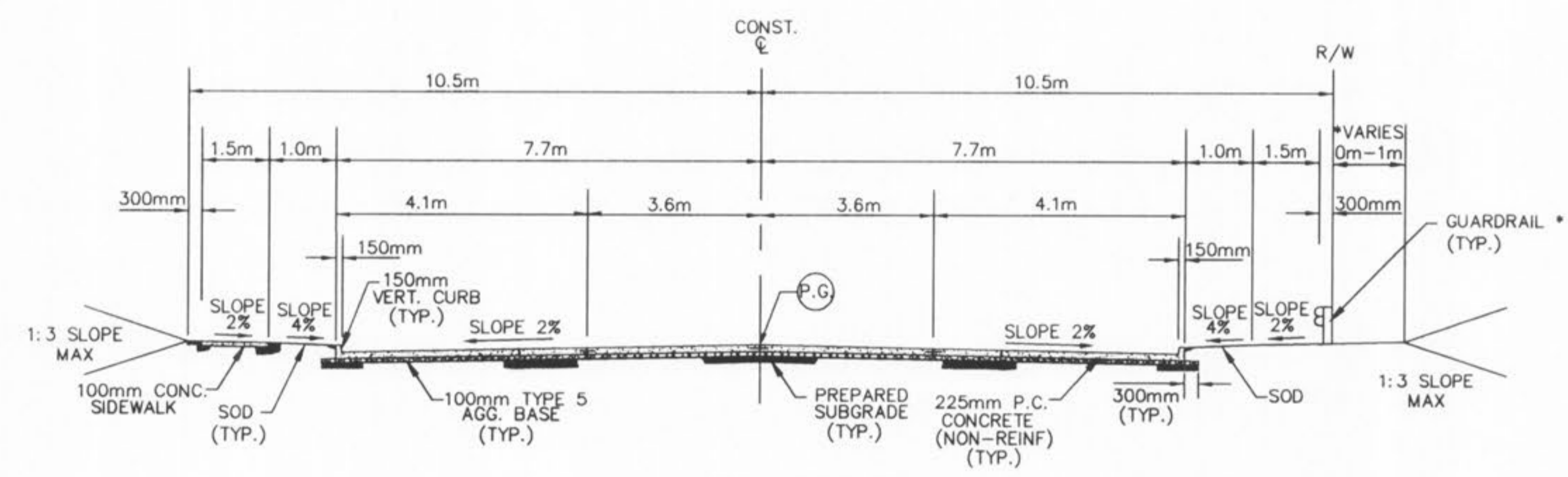
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
SUMMARY OF QUANTITIES – METRIC

CITY OF O'FALLON		STP # J611287
WOODLAWN OVERPASS	SHEET NUMBER	TOTAL SHEETS
	B2-1	..
SUMMARY OF QUANTITIES		

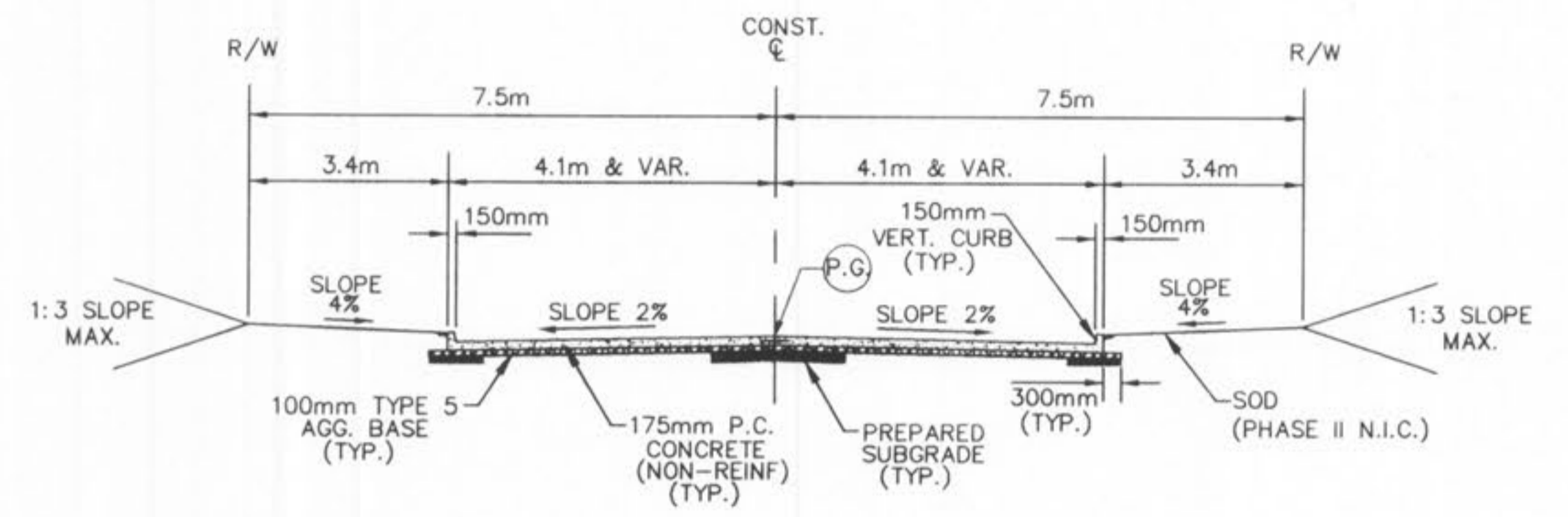
ROADWAY	LOCATION					DEPTH	PIPE OPENINGS	DRAINAGE STRUCTURE				CULVERT PIPE (m)				REMARKS			
	STRUCTURE NUMBER	TO STRUCTURE	STATION	OFFSET	SIDE			DROP INLETS/ MANHOLES				0.300m CLASS III RCP	0.375m CLASS III RCP	0.300m CLASS V RCP	0.200m CLASS V RCP		0.300m FES	0.600m FES	
								TYPE T	TYPE S-3	STANDARD ADJUST TO GRADE									
SANDERS	33-A	33	0+065.000	5.319m	RT.	1.0m	10 0.300m		1										
	33	32	0+110.244	5.319m	RT.	1.2m	30 0.300m			1									
	32	31	0+145.035	4.711m	RT.	1.3m	20 0.300m		1										
	31	30	0+145.035	4.622m	LT.	1.4m	20 0.375m		1										
	30	-	0+159.409	7.745m	LT.	-	-								1				
WOODLAWN	36	33	0+356.400	29.580m	LT.	1.2m	10 0.300m		1				79.1						
	S9	S10	0+403.245	16.222m	LT.	3.2m	20 0.200m			1				15.4				SANITARY SEWER	
	S10	S11	0+413.250	4.510m	LT.	3.3m	20 0.200m			1				23.7				SANITARY SEWER	
	S11	S12	0+412.479	19.186m	RT.	3.0m	20 0.200m			1				15.9				SANITARY SEWER	
	S12	-	0+400.947	30.178m	RT.		20 0.200m				1								SANITARY SEWER
	93	94	0+412.647	11.183	LT.								17			1			
WEST TERRA BY PASS	94	-	0+413.978	9.002	LT.										1				
	100	101	0+125.294	8.232	LT.								91			1			
101	-	0+413.978	8.246	LT.												1			
TOTAL									3	1	4	1	74	91	79	55.0	3	2	



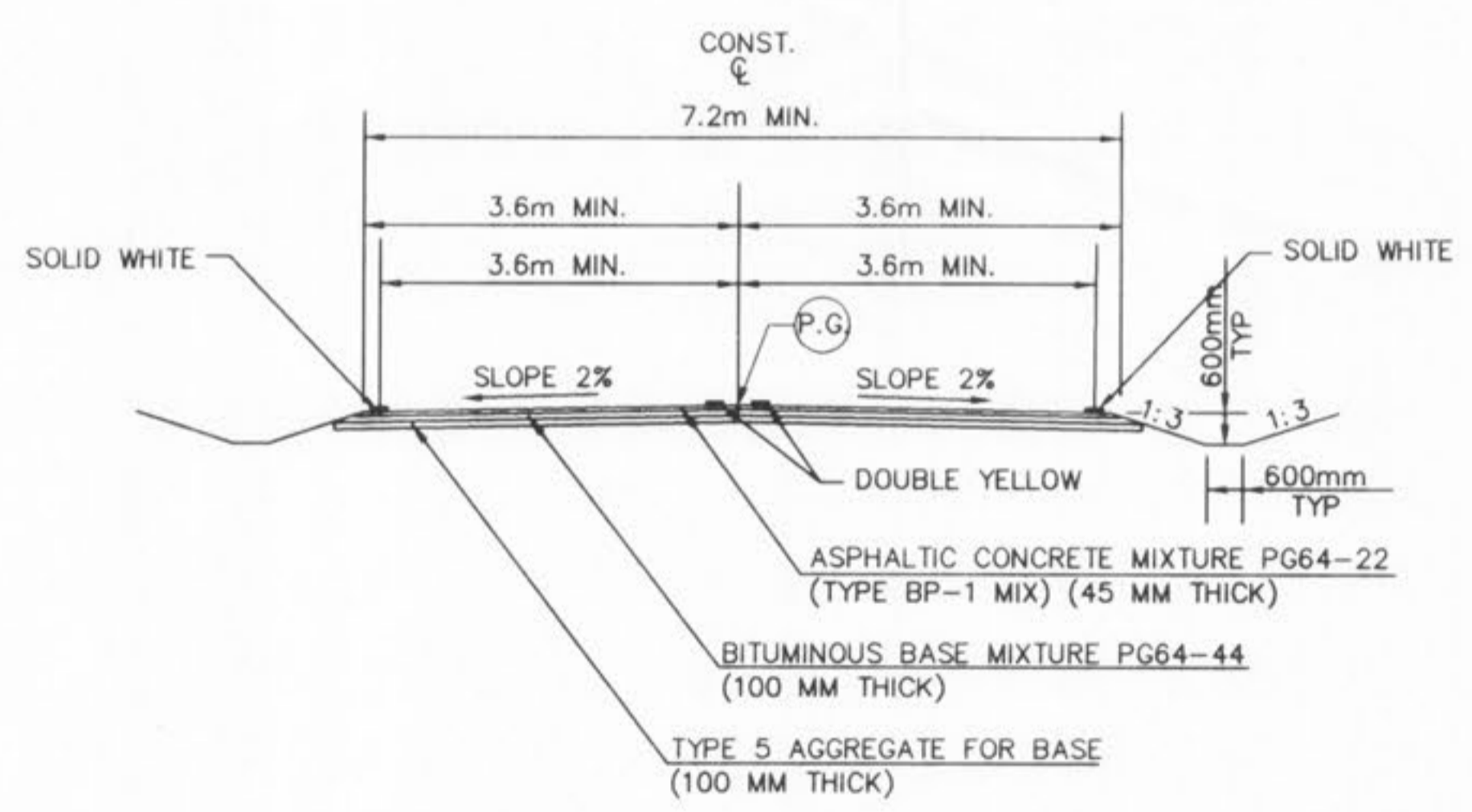
CITY OF O'FALLON		
WOODLAWN OVERPASS	SHEET NUMBER	TOTAL SHEETS
	2	2
TYPICAL SECTIONS		



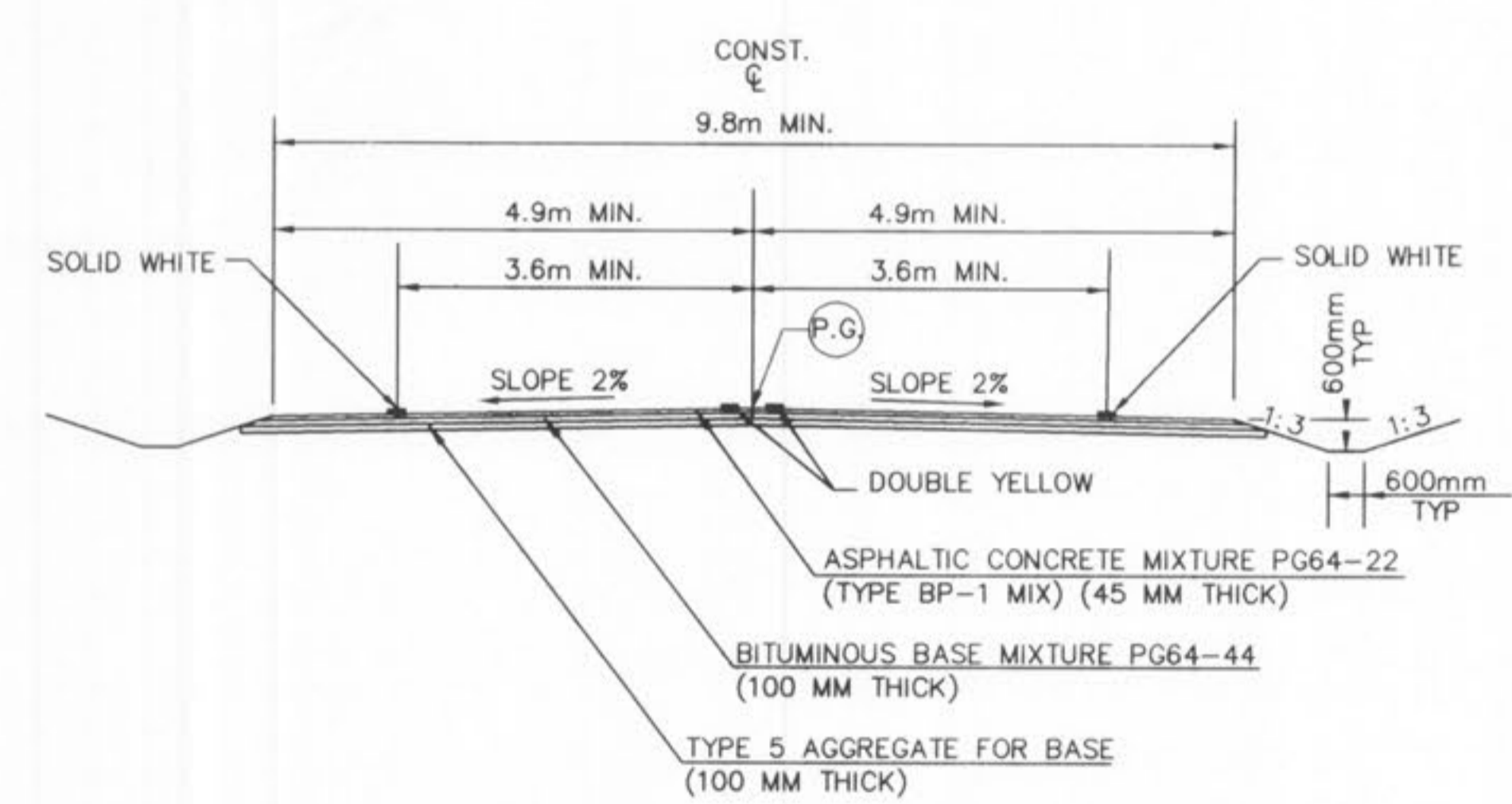
WOODLAWN
 STA. 0+282.54 TO STA. 0+395.90 (RT. SIDE)
 (REFERENCE ONLY)
 (PHASE II CONSTRUCTION)



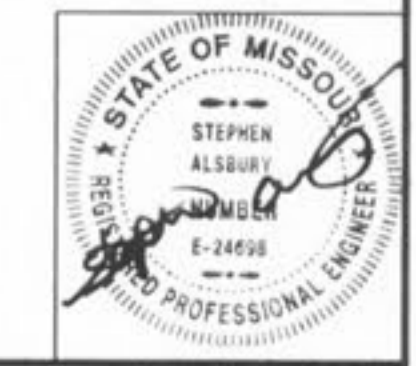
SANDERS
 STA. 0+095.140 TO STA. 0+175.667

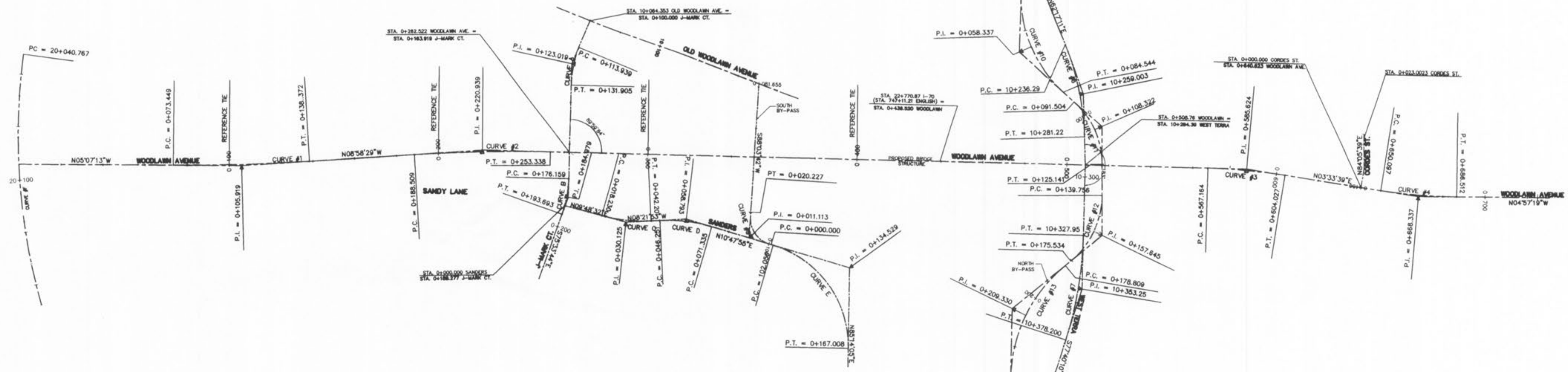
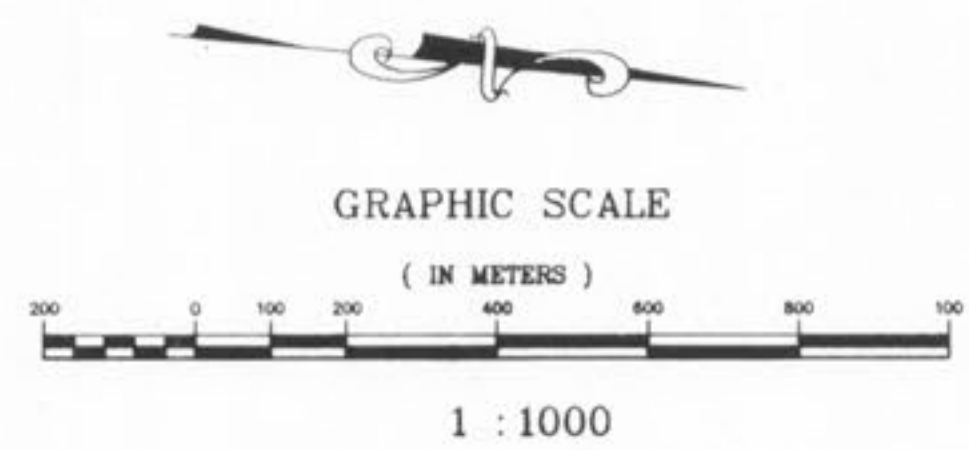


**TEMPORARY BY-PASS
 FOR SANDERS**
 STA. 0+000 TO STA. 0+081.650



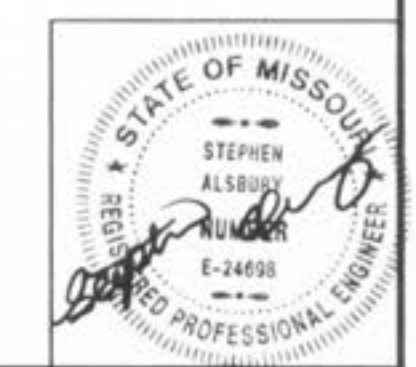
**TEMPORARY BY-PASS
 FOR WEST TERRA**
 STA. 0+032.130 TO STA. 0+239.850





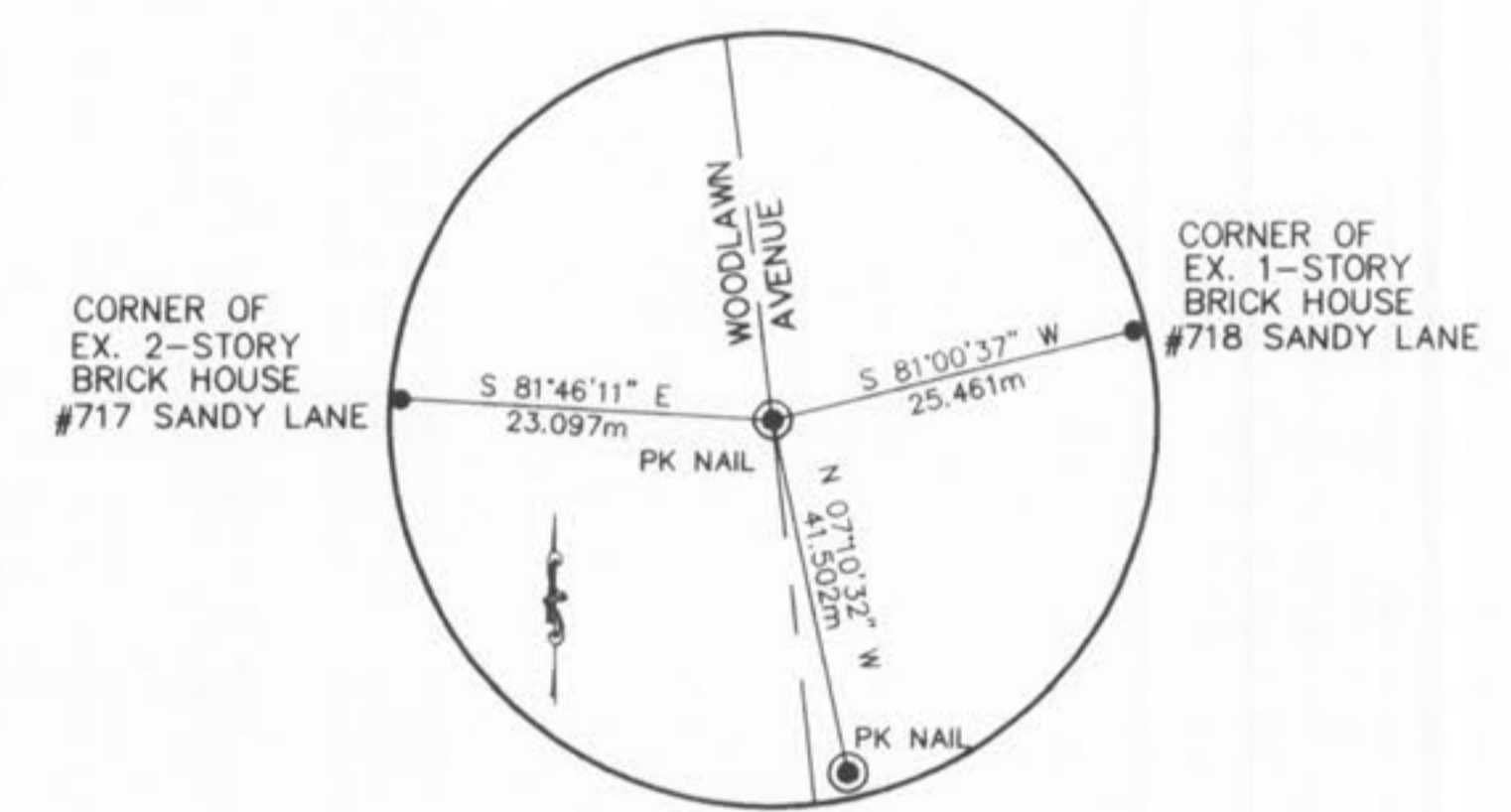
CURVES DATA

LOCATION	CURVE #	L	R	Δ	TAN	P.C.	P.T.	P.I.
SOUTH OUTER RD.	E	188.577	295.000	36°37'34"	97.636	20+040.767	20+229.345	20+135.056
WOODLAWN AVE.	1	64.920	965.000	03°51'17"	32.470	0+073.449	0+138.372	0+105.919
WOODLAWN AVE.	2	64.830	765.000	04°51'20"	32.430	0+188.509	0+253.338	0+220.939
WOODLAWN AVE.	3	36.860	275.000	07°40'49"	18.460	0+567.164	0+604.027	0+585.624
WOODLAWN AVE.	4	36.410	245.000	08°30'58"	18.240	0+650.097	0+686.512	0+668.337
WEST TERRA	5	51.790	125.000	23°44'15"	26.270	10+156.810	10+208.600	10+183.080
WEST TERRA	6	44.929	125.000	20°35'39"	22.710	10+236.290	10+281.220	10+259.003
WEST TERRA	7	50.243	175.000	16°26'59"	25.300	10+327.950	10+378.200	10+353.250
WEST TERRA	8	136.950	200.000	39°14'01"	71.280	10+417.030	10+553.980	0+668.337
J-MARK COURT	A	17.970	50.000	20°35'13"	9.080	0+113.939	0+131.905	0+123.019
J-MARK COURT	B	17.480	54.000	18°32'50"	8.820	0+176.159	0+193.639	0+184.979
CORDES	C	23.789	75.000	18°10'25"	11.995	0+018.230	0+042.020	0+030.125
CORDES	D	25.085	75.000	19°09'47"	12.660	0+046.251	0+071.335	0+058.793
CORDES	E	64.958	50.000	74°26'11"	37.977	0+102.050	0+167.008	0+134.529
SOUTH BY PASS	9	20.230	12.500	77°15'47"	11.990	0+000.000	0+022.227	0+011.113
NORTH BY PASS	10	52.410	60.000	50°03'06"	28.010	0+032.130	0+084.544	0+058.337
NORTH BY PASS	11	33.640	40.000	48°10'55"	17.890	0+091.504	0+125.141	0+108.322
NORTH BY PASS	12	35.780	40.000	51°4'54"	19.190	0+139.756	0+175.534	0+157.645
NORTH BY PASS	13	61.040	70.000	49°57'52"	32.620	0+178.809	0+239.852	0+209.330

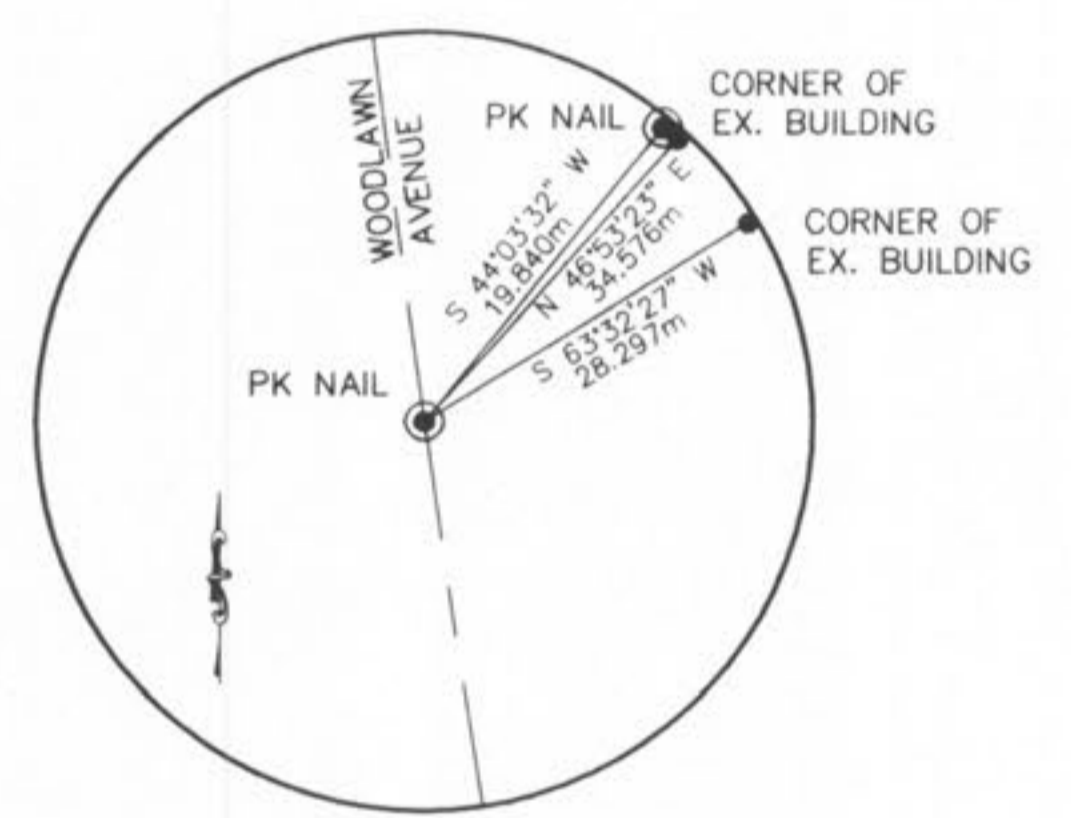


	STATION	LOCATION	OFFSET (METERS)	NORTHING (METERS)	EASTING (METERS)	DESCRIPTION
WOODLAWN AVE.	0+000.000	℄	0	9140.819	9452.647	INTERSECTION WOODLAWN @ S. OUTER RD.
	0+005.134	℄	0	9145.932	9452.189	BEGIN CONST. ON WOODLAWN
SOUTH OUTER RD.	20+040.767	℄	0	9137.926	9401.098	P.C. CURVE "F" ON S. OUTER RD.
	20+135.056	RT	15.738	9134.759	9498.683	P.I. CURVE "F"
	20+229.345	℄	0	9190.435	9578.889	P.T. CURVE "F"
WOODLAWN AVE.	0+073.449	℄	0	9213.975	9446.092	P.C. CURVE #1 ON WOODLAWN
	0+105.910	RT	0.546	9246.319	9443.194	P.I. CURVE #1
	0+138.372	℄	0	9278.395	9438.128	P.T. CURVE #1
	0+188.509	℄	0	9327.919	9430.307	P.C. CURVE #2 ON WOODLAWN
	0+220.924	LT	0.687	9359.955	9425.247	P.I. CURVE #2
	0+253.338	℄	0	9392.305	9422.917	P.T. CURVE #2
	0+262.522	℄	0	9401.465	9422.257	INTERSECTION WOODLAWN @ J-MARK
	0+113.939	℄	0	9401.096	9372.561	P.C. CURVE "A" ON J-MARK COURT
J-MARK CT.	0+122.922	RT	0.818	9398.521	9381.268	P.I. CURVE "A"
	0+131.905	℄	0	9399.171	9390.326	P.T. CURVE "A"
	0+176.159	℄	0	9402.343	9434.466	P.C. CURVE "B" ON J-MARK COURT
	0+184.899	LT	0.715	9402.975	9443.261	P.I. CURVE "B"
	0+193.639	℄	0	9400.776	9451.799	P.T. CURVE "B"
	0+189.277	℄	0	9401.692	9447.535	INTERSECTION J-MARK @ SANDERS
SANDERS	0+018.230	℄	0	9419.656	9450.641	P.C. CURVE "C" ON SANDERS
	0+030.125	RT	0.953	9431.476	9452.685	P.I. CURVE "C"
	0+042.020	℄	0	9443.344	9450.939	P.T. CURVE "C"
	0+046.251	℄	0	9447.530	9450.324	P.C. CURVE "D" ON SANDERS
	0+058.793	LT	1.061	9460.056	9448.483	P.I. CURVE "D"
	0+071.335	℄	0	9472.492	9450.855	P.T. CURVE "D"
	0+102.050	℄	0	9502.663	9456.609	P.C. CURVE "E" ON SANDERS
	0+134.529	LT	12.787	9539.968	9463.724	P.I. CURVE "E"
	0+167.008	℄	0	9543.122	9501.570	P.T. CURVE "E"
	WOODLAWN AVE.	0+508.761	℄	0	9647.069	9404.569
0+567.164		℄	0	9705.321	9400.373	P.C. CURVE #3 ON WOODLAWN
0+585.595		LT	0.619	9723.732	9399.047	P.I. CURVE #3
0+604.027		℄	0	9742.155	9400.194	P.T. CURVE #3
0+640.623		℄	0	9778.681	9402.467	INTERSECTION WOODLAWN @ CORDES
0+650.097		℄	0	9788.136	9403.055	P.C. CURVE #4 ON WOODLAWN
0+668.304		RT	0.678	9806.342	9404.188	P.I. CURVE #4
0+686.512		℄	0	9824.515	9402.613	P.T. CURVE #4
0+709.512		℄	0	9847.429	9400.626	END CONSTRUCTION ON WOODLAWN
WEST TERRA		10+236.290	℄	0	9632.061	9348.863
	10+258.759	LT	2.046	9642.623	9368.968	P.I. CURVE #6
	10+281.220	℄	0	9645.437	9391.503	P.T. CURVE #6
	10+327.950	℄	0	9649.480	9438.046	P.C. CURVE #7 ON WEST TERRA
	10+353.076	LT	1.819	9651.297	9463.276	P.I. CURVE #7
	10+378.200	℄	0	9645.895	9487.989	P.T. CURVE #7
	10+156.809	℄	0	9605.141	9274.878	P.C. CURVE #5 ON WEST TERRA
	10+182.702	RT	2.731	9606.963	9301.085	P.I. CURVE #5
	10+208.596	℄	0	9619.180	9324.342	P.T. CURVE #5
	10+082.521	℄	0	9599.990	9200.769	END CONSTRUCTION WEST TERRA
	10+417.026	℄	0	9637.604	9525.922	P.C. CURVE #8 ON WEST TERRA
	10+485.502	RT	12.323	9622.381	9595.560	P.I. CURVE #8
	10+553.977	℄	0	9654.635	9659.128	P.T. CURVE #8
	10+470.532	℄	0	9633.264	9579.091	INTERSECTION WEST TERRA @ SCHOOL
10+563.196	℄	0	9658.807	9667.349	END CONSTRUCTION WEST TERRA	

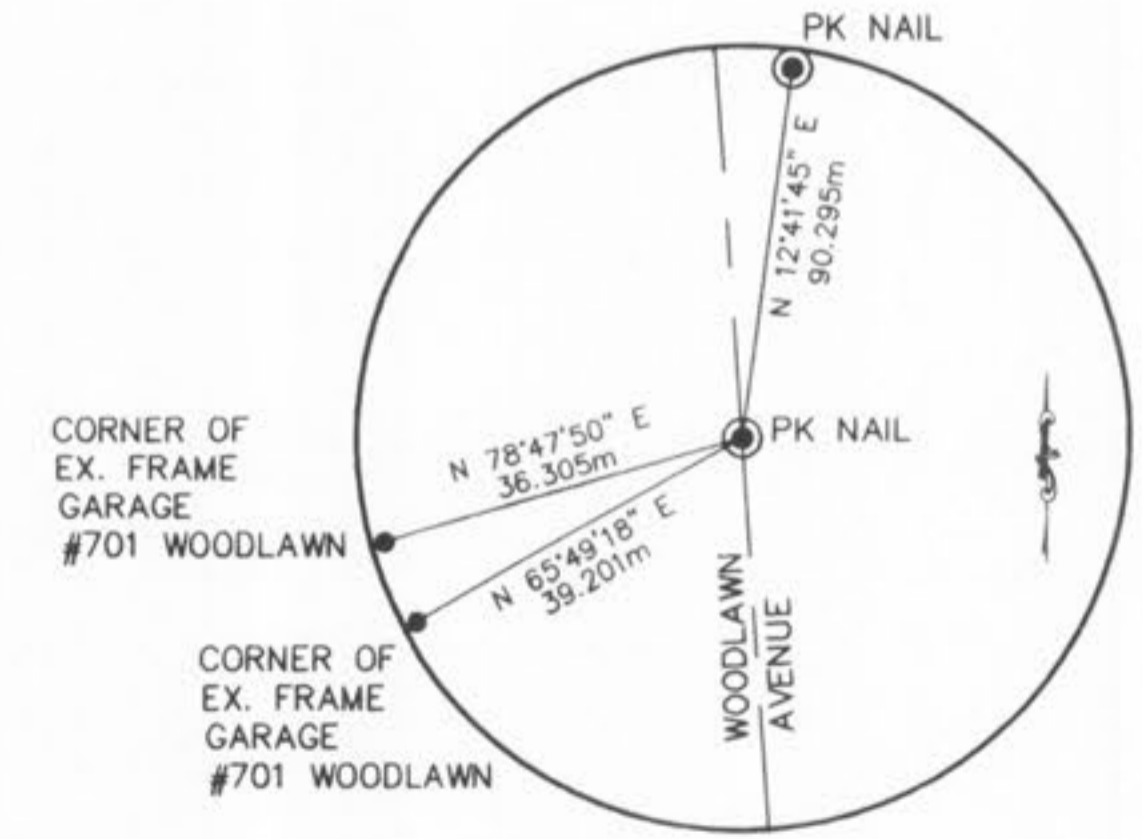
	STATION	LOCATION	OFFSET (METERS)	NORTHING (METERS)	EASTING (METERS)	DESCRIPTION
SOUTH BY PASS SANDERS	0+020.227	℄	0	9489.566	9442.207	P.T. CURVE #9 TEMP. RD. @ SANDERS
	0+046.400	℄	0	9488.678	9415.976	INTERSECTION WOODLAWN & TEMP. ROAD
	0+081.655	℄	0	9487.488	9380.815	END CONSTRUCTION TEMP. ROAD
NORTH BY PASS WEST TERRA	0+032.130	℄	0	9608.740	9326.623	P.C. CURVE "10" ON TEMP. RD. @ W. TERRA
	0+058.337	℄	0	9610.597	9354.573	P.I. CURVE "10" ON TEMP. RD. @ W. TERRA
	0+084.544	℄	0	9633.216	9371.096	P.T. CURVE "10" ON TEMP. RD. @ W. TERRA
	0+091.504	℄	0	9638.836	9375.201	P.C. CURVE "11" ON TEMP. RD. @ W. TERRA
	0+157.645	℄	0	9653.278	9385.751	P.I. CURVE "11" ON TEMP. RD. @ W. TERRA
	0+125.141	℄	0	9655.045	9403.549	P.T. CURVE "11" ON TEMP. RD. @ W. TERRA
	0+139.756	℄	0	9656.489	9418.093	P.C. CURVE "12" ON TEMP. RD. @ W. TERRA
	0+108.322	℄	0	9658.384	9437.185	P.I. CURVE "12" ON TEMP. RD. @ W. TERRA
	0+175.534	℄	0	9644.682	9450.614	P.T. CURVE "12" ON TEMP. RD. @ W. TERRA
	0+178.080	℄	0	9642.343	9452.905	P.C. CURVE "13" ON TEMP. RD. @ W. TERRA
	0+209.330	℄	0	9619.049	9475.734	P.I. CURVE "13" ON TEMP. RD. @ W. TERRA
	0+239.852	℄	0	9621.544	9508.253	P.T. CURVE "13" ON TEMP. RD. @ W. TERRA



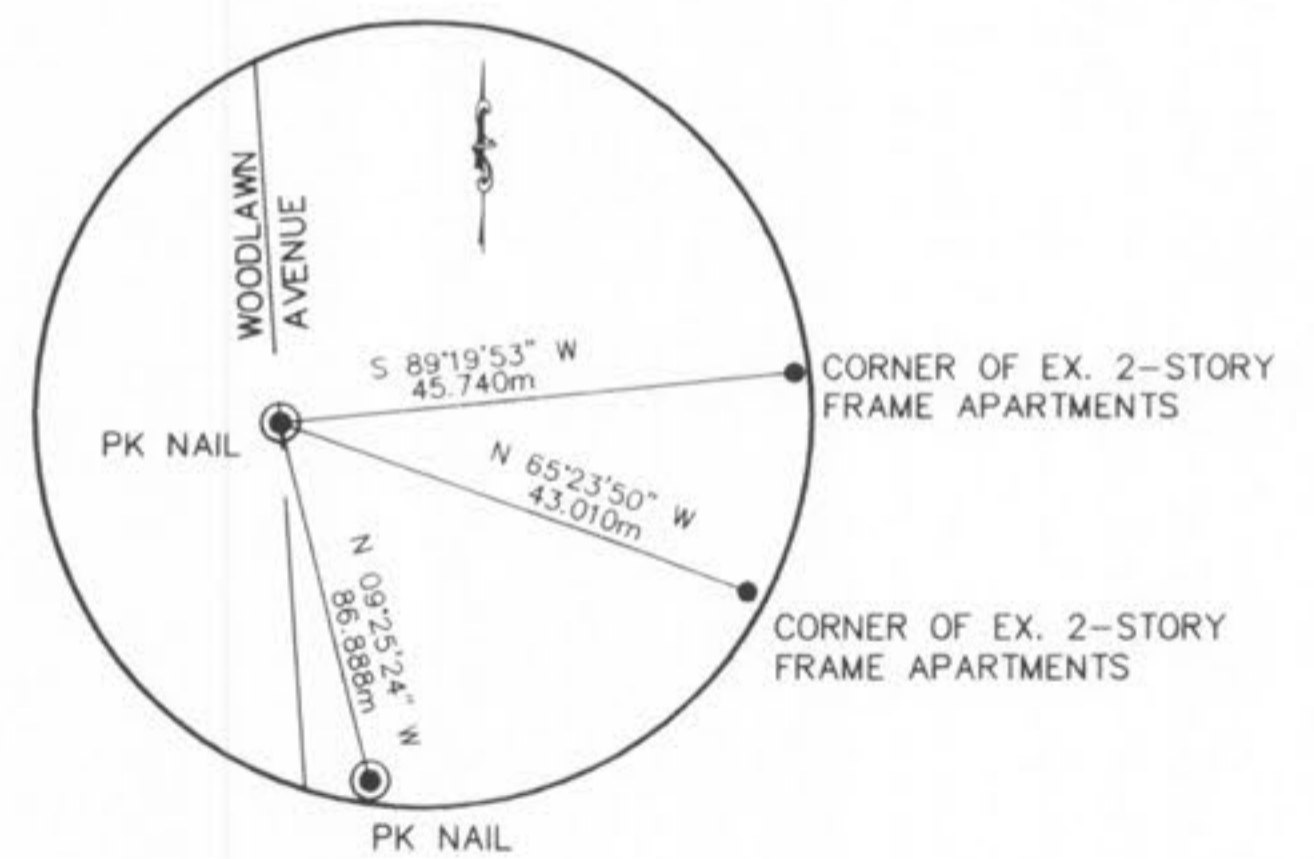
WOODLAWN AVENUE
REFERENCE TIE
STATION 0+100.000
N = 9240.384
E = 9443.359



WOODLAWN AVENUE
REFERENCE TIE
STATION 0+200.000
N = 9339.282
E = 9428.599



WOODLAWN AVENUE
REFERENCE TIE
STATION 0+400.000
N = 9438.847
E = 9419.564



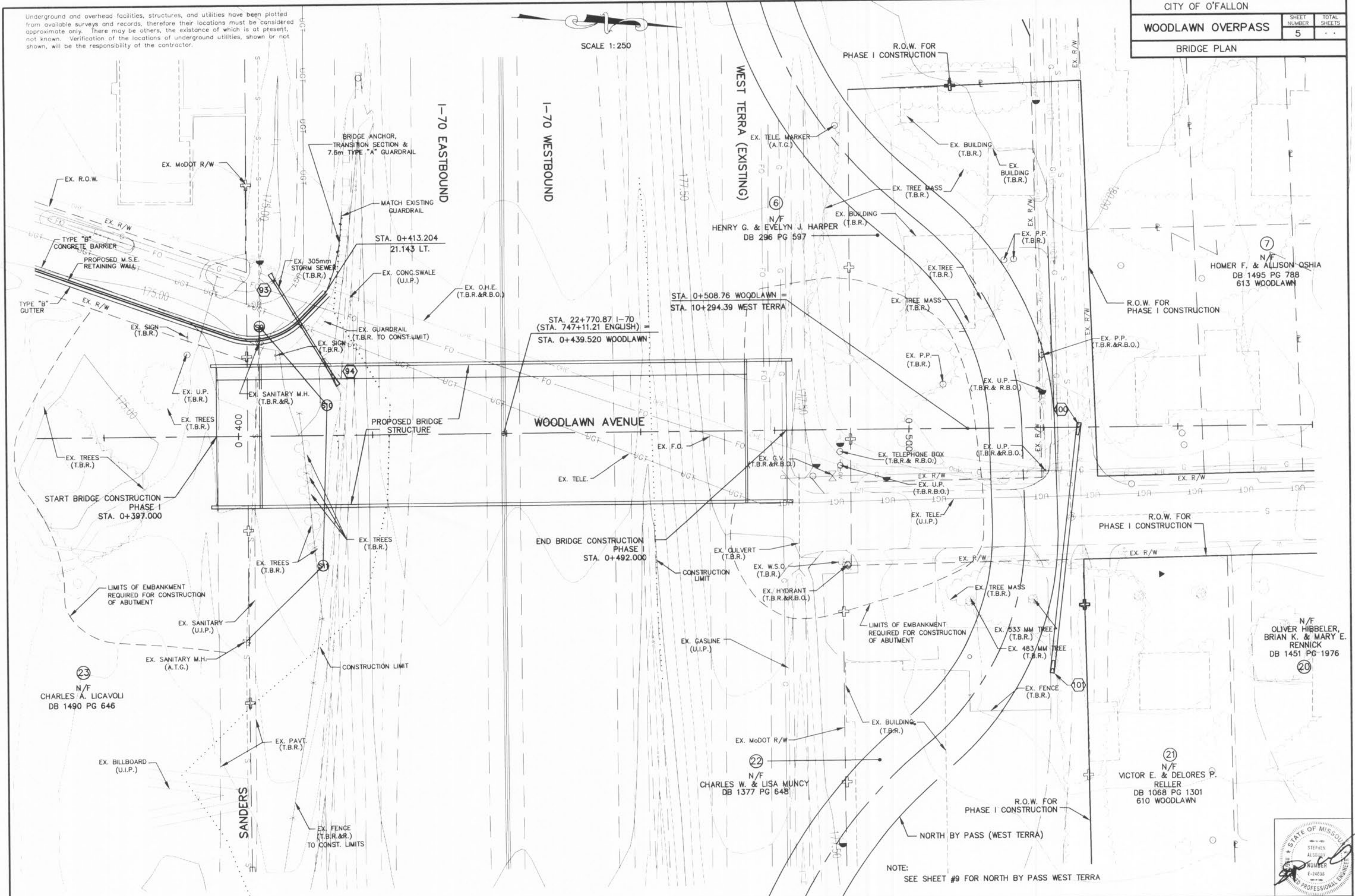
WOODLAWN AVENUE
REFERENCE TIE
STATION 0+300.000
N = 9538.589
E = 9412.382



Underground and overhead facilities, structures, and utilities have been plotted from available surveys and records, therefore their locations must be considered approximate only. There may be others, the existence of which is at present, not known. Verification of the locations of underground utilities, shown or not shown, will be the responsibility of the contractor.

SCALE 1:250

CITY OF O'FALLON	
WOODLAWN OVERPASS	SHEET NUMBER 5
BRIDGE PLAN	
TOTAL SHEETS 5	



23
N/F
CHARLES A. LICAVOLI
DB 1490 PG 646

22
N/F
CHARLES W. & LISA MUNCY
DB 1377 PG 64B

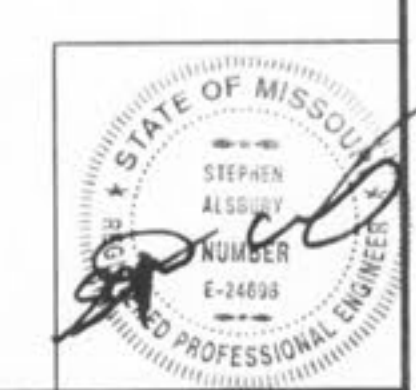
21
N/F
VICTOR E. & DELORES P. RELLER
DB 1068 PG 1301
610 WOODLAWN

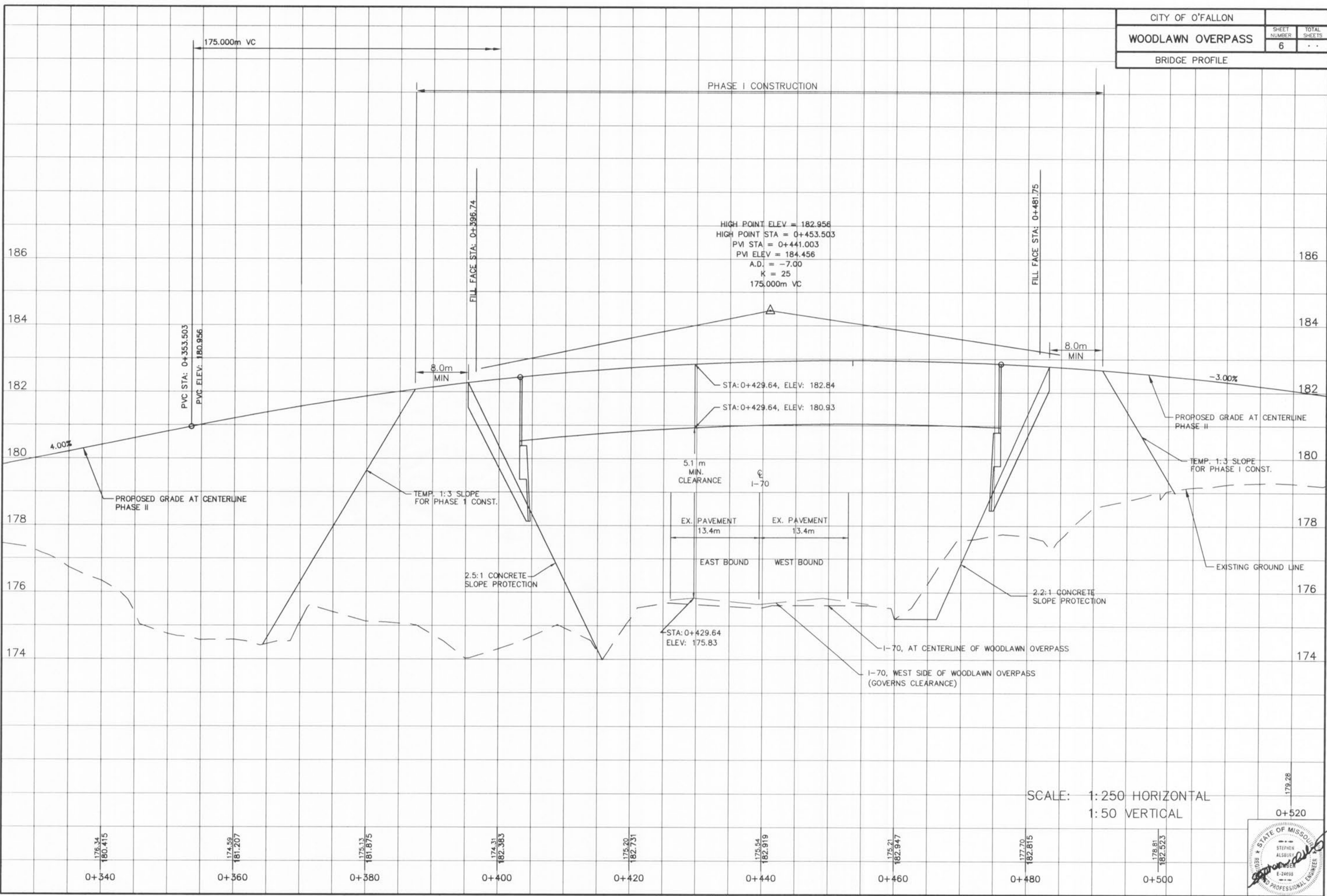
N/F
OLIVER HIBBELER,
BRIAN K. & MARY E. RENNICK
DB 1451 PG 1976

7
N/F
HOMER F. & ALLISON QSHIA
DB 1495 PG 788
613 WOODLAWN

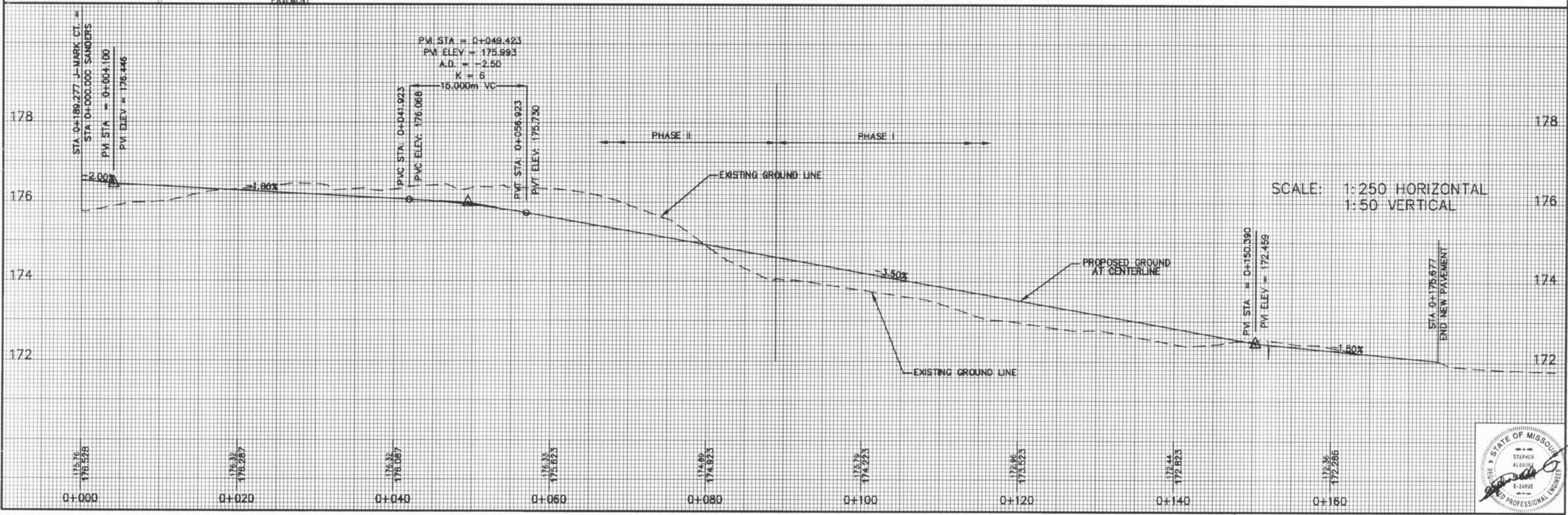
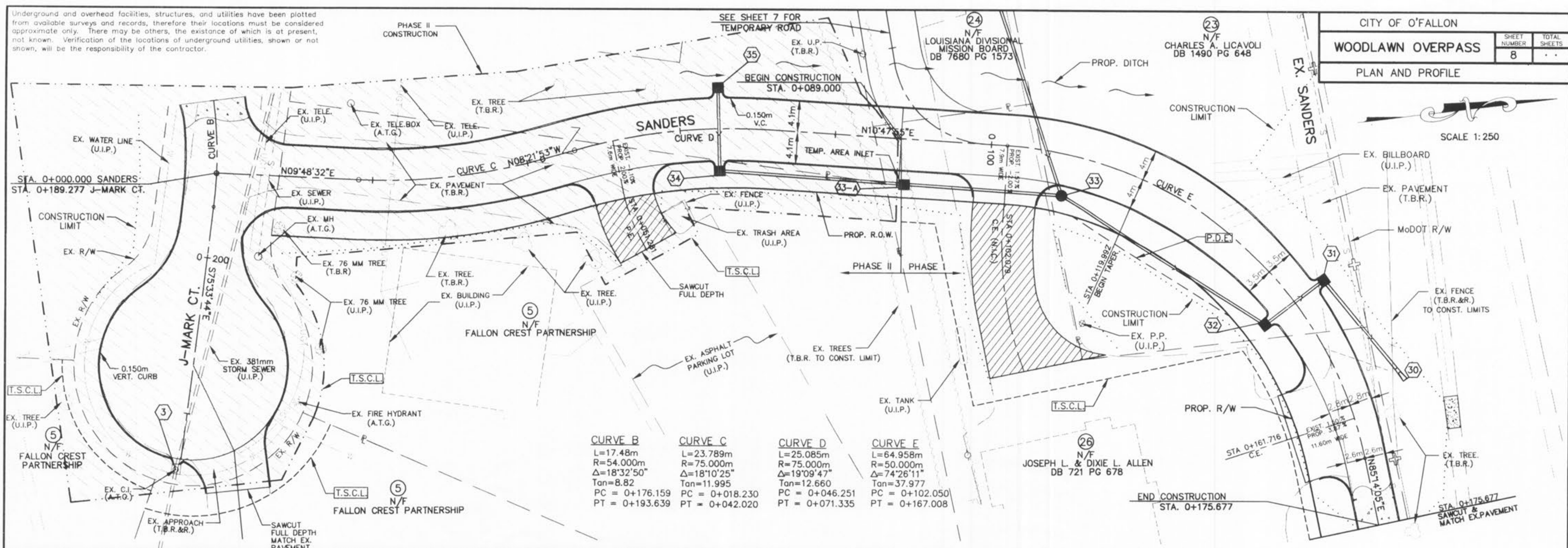
6
N/F
HENRY G. & EVELYN J. HARPER
DB 296 PG 597

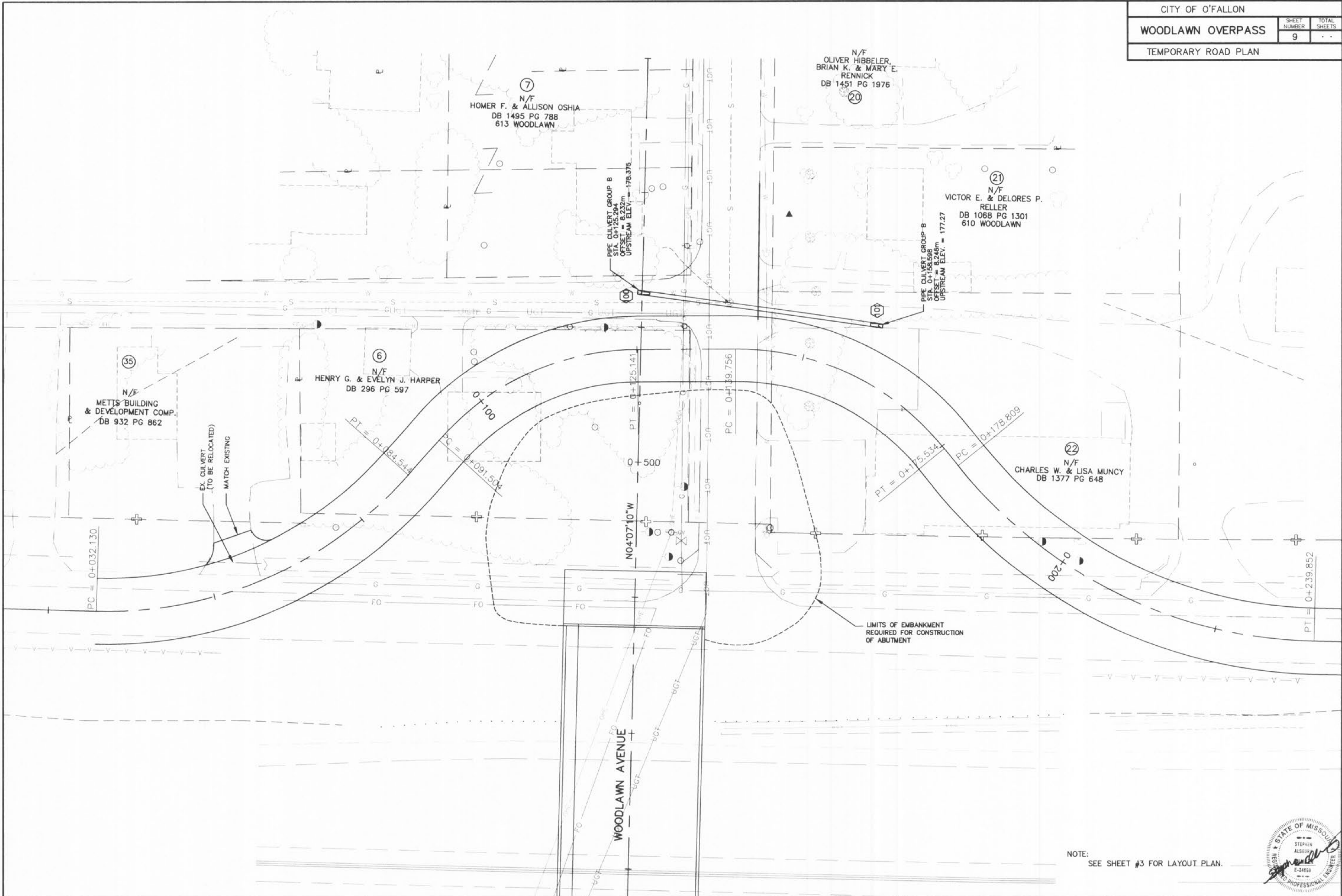
NOTE:
SEE SHEET #9 FOR NORTH BY PASS WEST TERRA





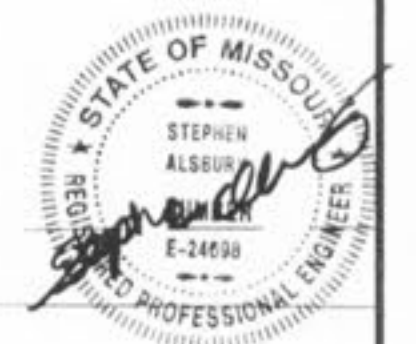
Underground and overhead facilities, structures, and utilities have been plotted from available surveys and records, therefore their locations must be considered approximate only. There may be others, the existence of which is at present, not known. Verification of the locations of underground utilities, shown or not shown, will be the responsibility of the contractor.

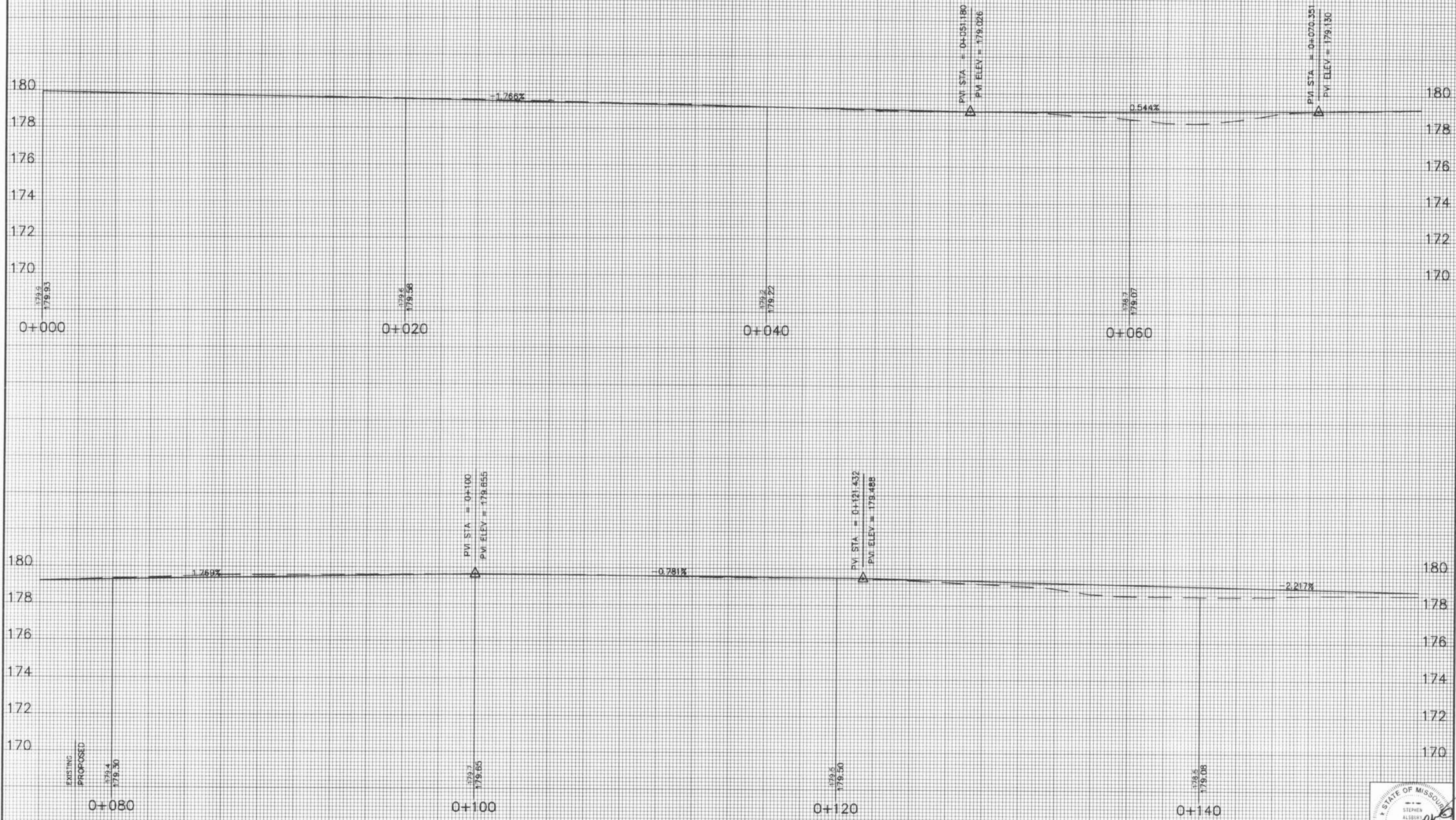


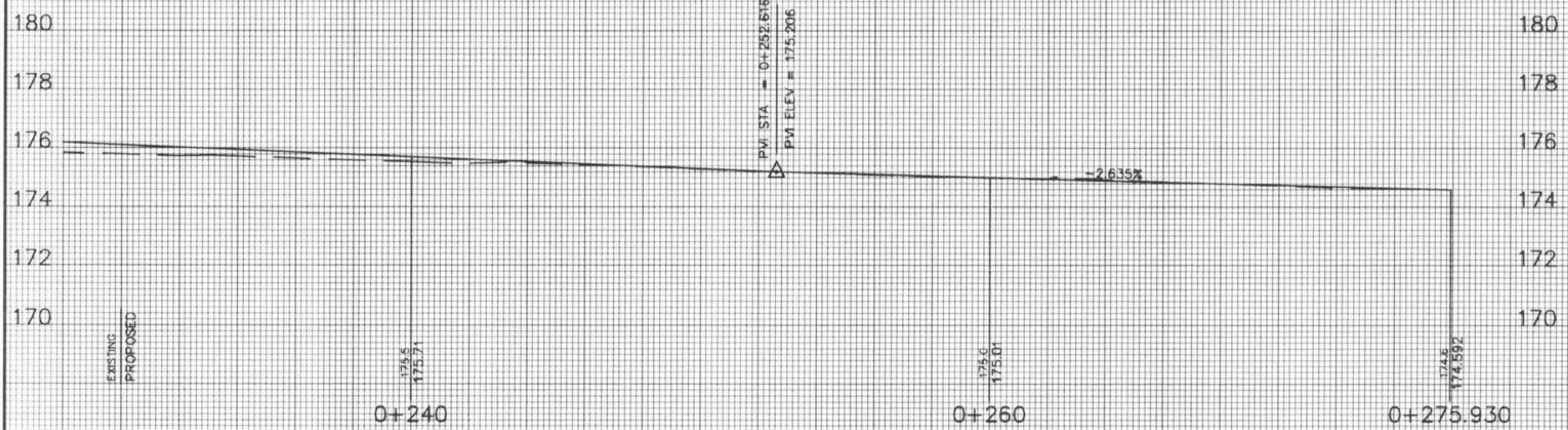
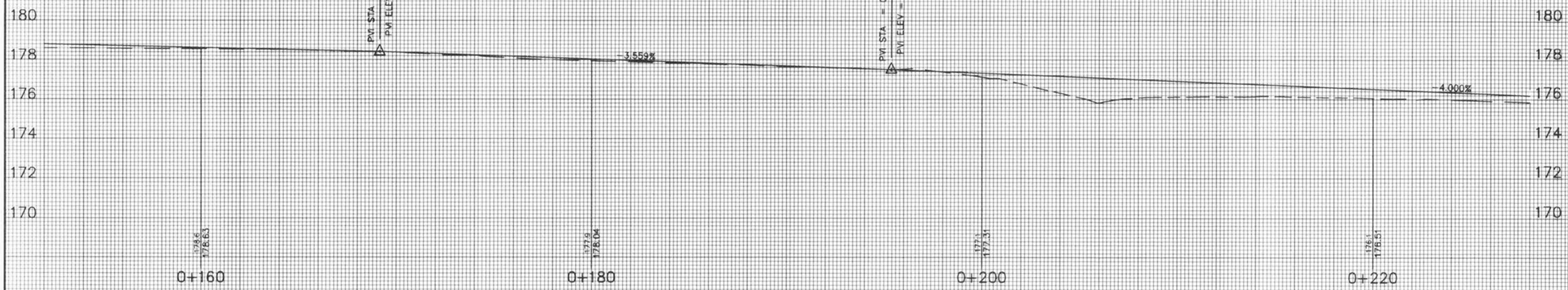


LIMITS OF EMBANKMENT
REQUIRED FOR CONSTRUCTION
OF ABUTMENT

NOTE:
SEE SHEET #3 FOR LAYOUT PLAN.

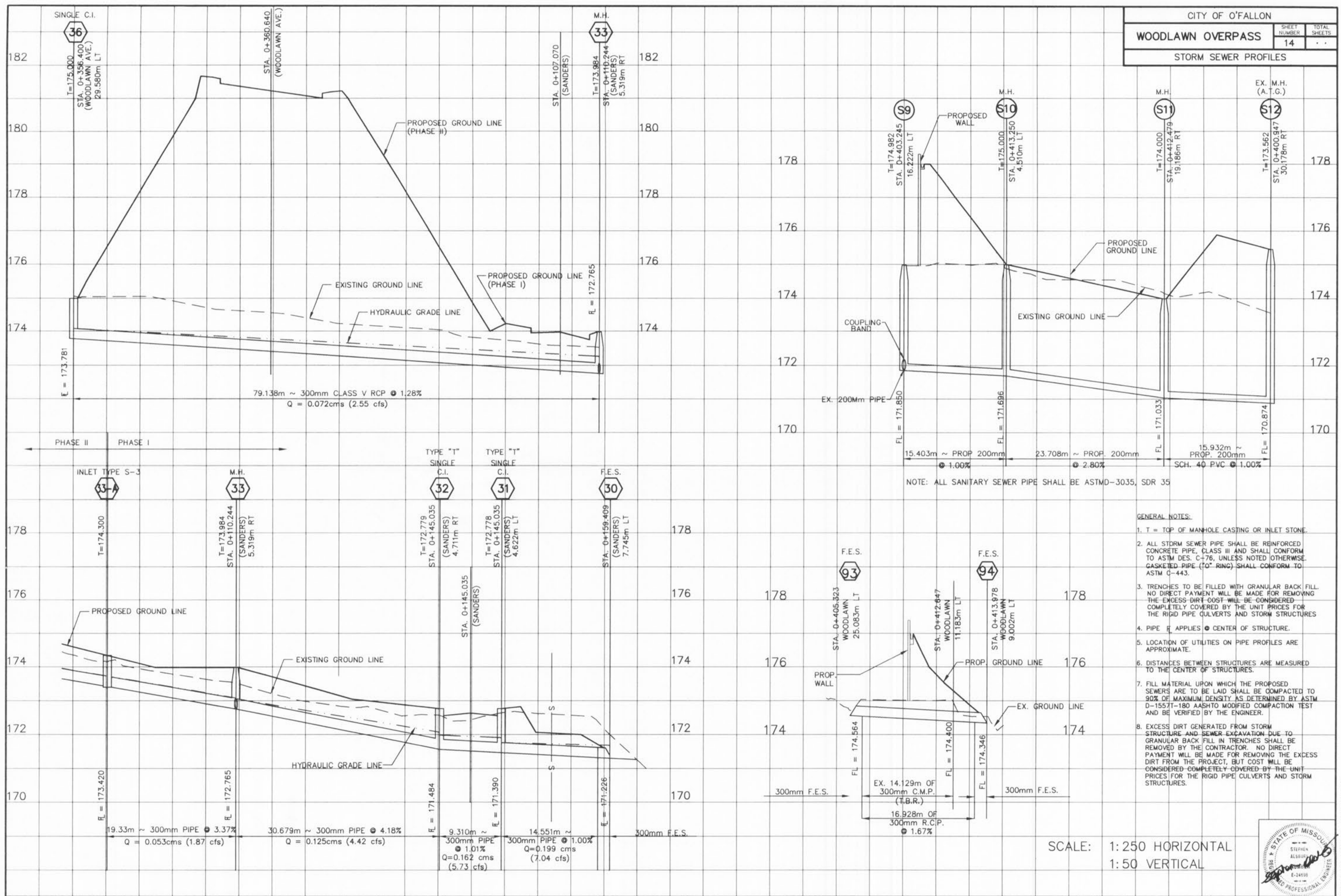






EXISTING
PROPOSED

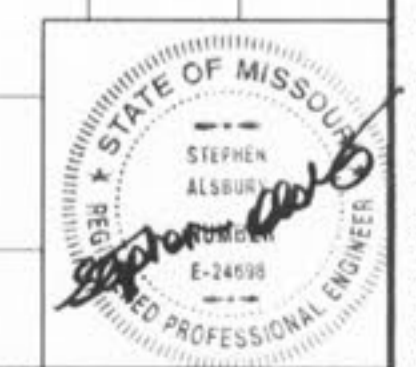




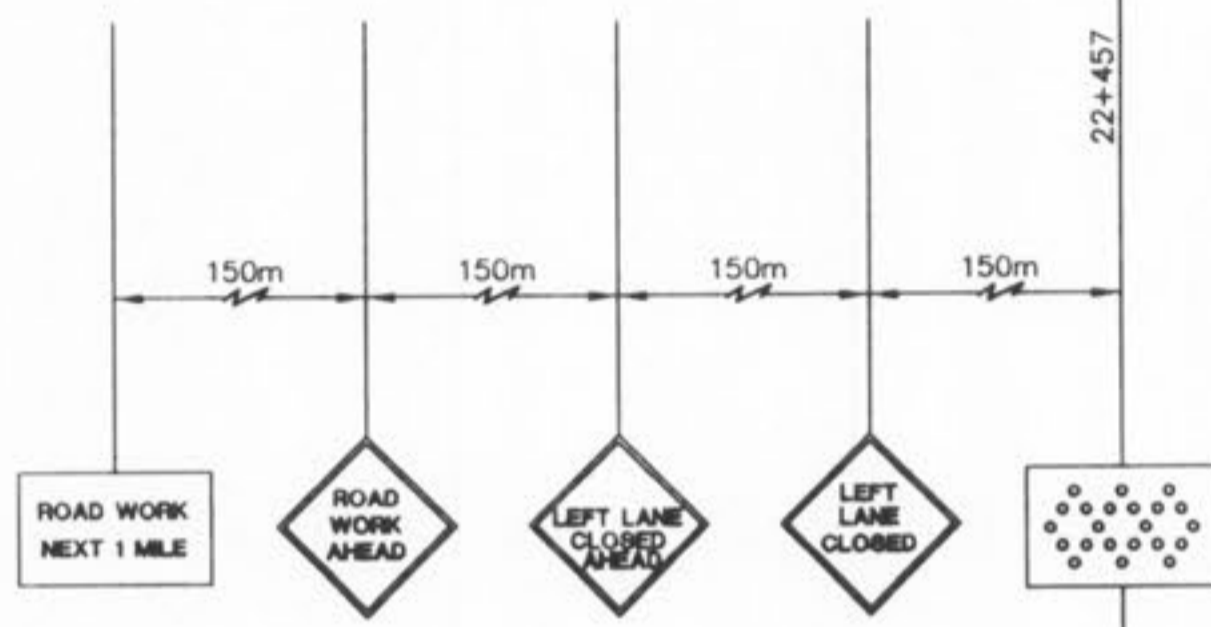
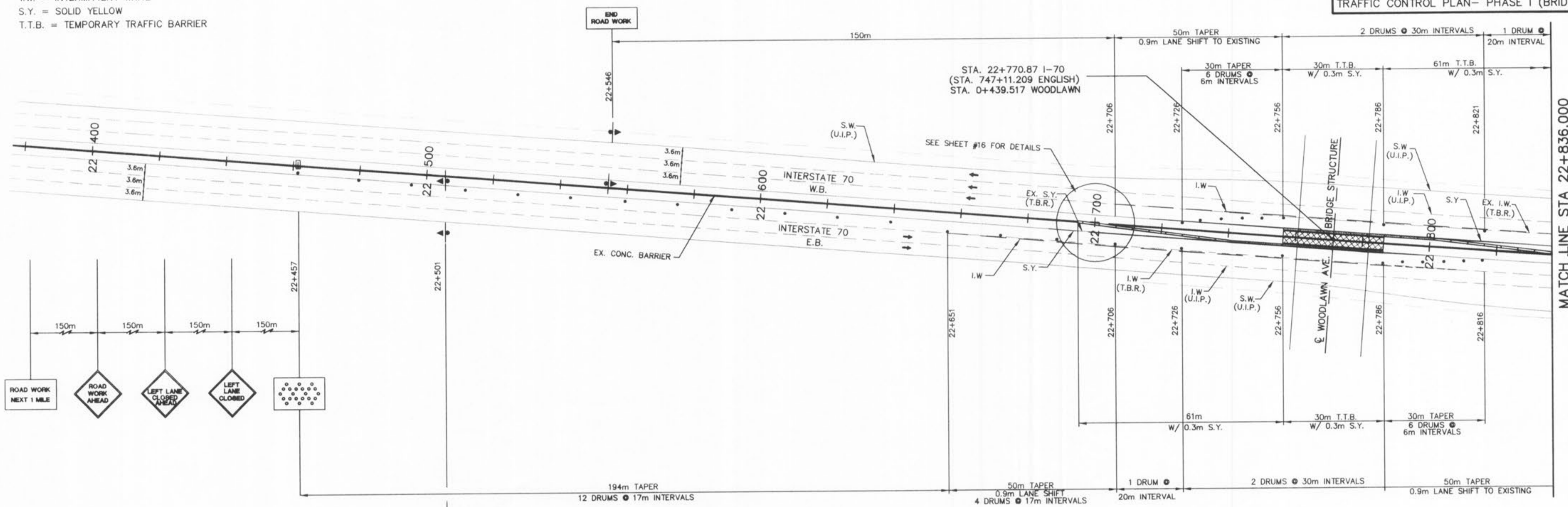
NOTE: ALL SANITARY SEWER PIPE SHALL BE ASTM-3035, SDR 35

- GENERAL NOTES:**
1. T = TOP OF MANHOLE CASTING OR INLET STONE.
 2. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS III AND SHALL CONFORM TO ASTM DES. C-76, UNLESS NOTED OTHERWISE. GASKETED PIPE (TO-RING) SHALL CONFORM TO ASTM C-443.
 3. TRENCHES TO BE FILLED WITH GRANULAR BACK FILL. NO DIRECT PAYMENT WILL BE MADE FOR REMOVING THE EXCESS DIRT COST WILL BE CONSIDERED COMPLETELY COVERED BY THE UNIT PRICES FOR THE RIGID PIPE CULVERTS AND STORM STRUCTURES.
 4. PIPE R APPLIES @ CENTER OF STRUCTURE.
 5. LOCATION OF UTILITIES ON PIPE PROFILES ARE APPROXIMATE.
 6. DISTANCES BETWEEN STRUCTURES ARE MEASURED TO THE CENTER OF STRUCTURES.
 7. FILL MATERIAL UPON WHICH THE PROPOSED SEWERS ARE TO BE LAID SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557T-180 AASHTO MODIFIED COMPACTION TEST AND BE VERIFIED BY THE ENGINEER.
 8. EXCESS DIRT GENERATED FROM STORM STRUCTURE AND SEWER EXCAVATION DUE TO GRANULAR BACK FILL IN TRENCHES SHALL BE REMOVED BY THE CONTRACTOR. NO DIRECT PAYMENT WILL BE MADE FOR REMOVING THE EXCESS DIRT FROM THE PROJECT, BUT COST WILL BE CONSIDERED COMPLETELY COVERED BY THE UNIT PRICES FOR THE RIGID PIPE CULVERTS AND STORM STRUCTURES.

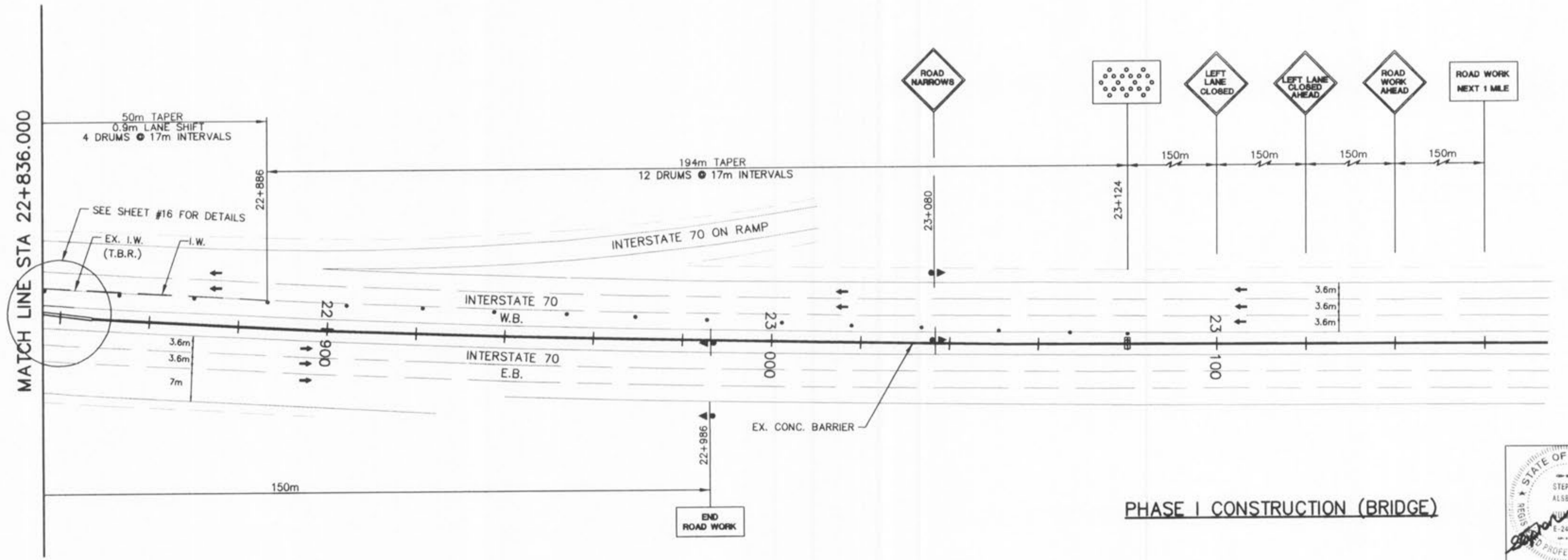
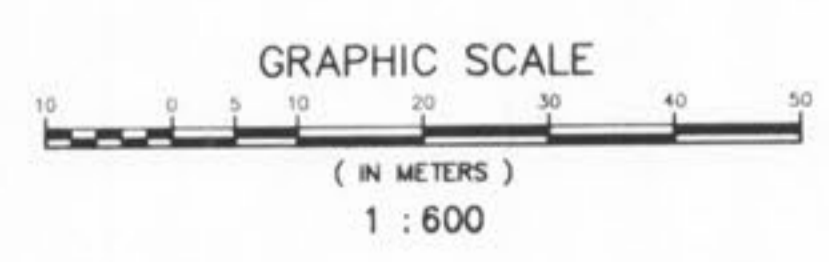
SCALE: 1:250 HORIZONTAL
 1:50 VERTICAL



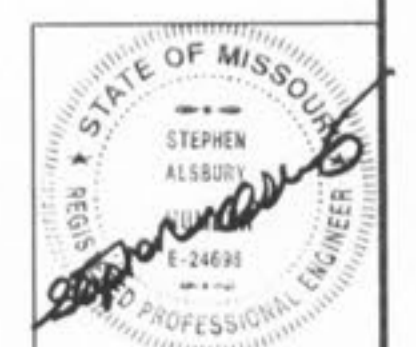
I.W. = INTERMITTENT WHITE
 S.Y. = SOLID YELLOW
 T.T.B. = TEMPORARY TRAFFIC BARRIER



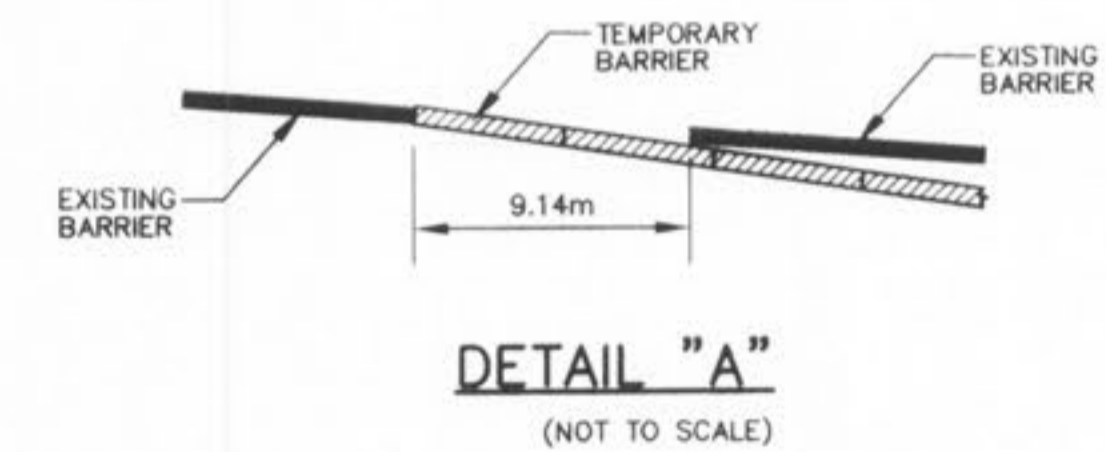
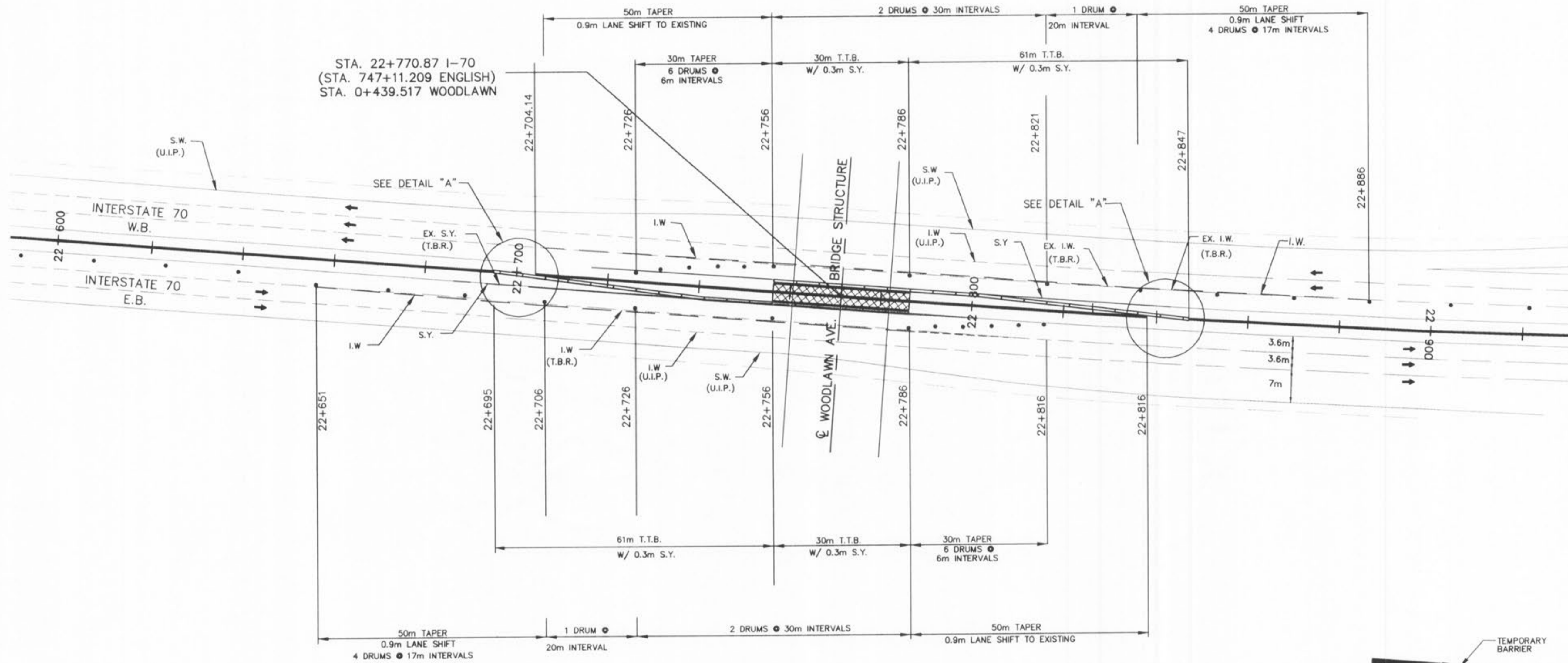
- NOTES:
1. CONTRACTOR TO COVER ALL LANE CLOSURE SIGNS WHEN LANE CLOSURE IS NOT IN EFFECT.
 2. REFER TO SPECIFICATIONS FOR DAYS, TIMES, AND DURATION THAT TEMPORARY LANE CLOSURES ARE ALLOWED.
 3. FULL CLOSURE OF ALL LANES (FOR PLACEMENT OF BRIDGE GIRDERS) WILL BE ALLOWED ONLY FOR DAYS, TIMES, AND DURATIONS SPECIFIED, WITH ADVANCE NOTIFICATION TO THE CITY AND STATE.



PHASE I CONSTRUCTION (BRIDGE)



I.W. = INTERMITTENT WHITE
 S.Y. = SOLID YELLOW
 T.T.B. = TEMPORARY TRAFFIC BARRIER



PHASE I CONSTRUCTION (BRIDGE)

GRAPHIC SCALE



1 : 500

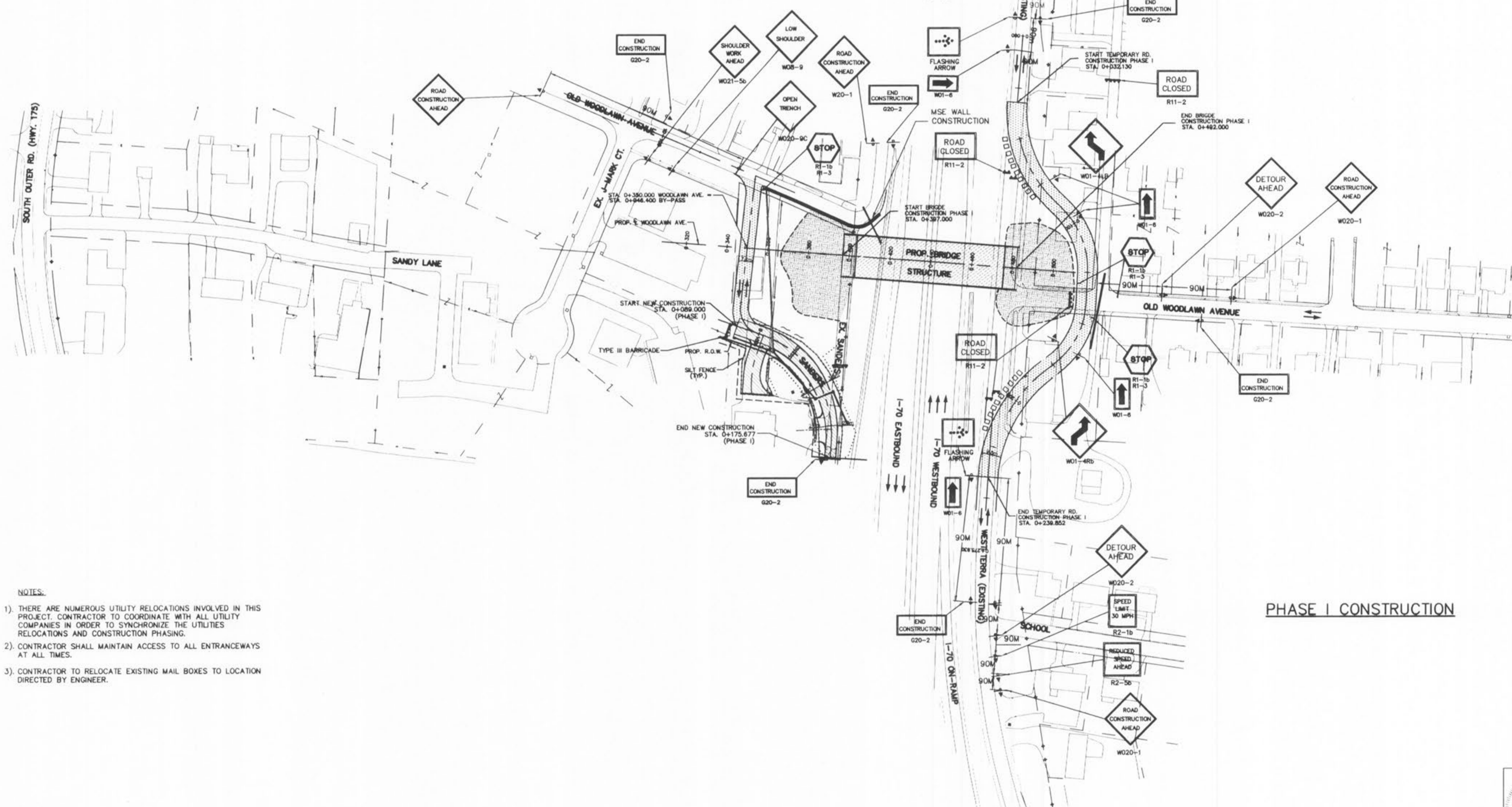


SHEET NUMBER	TOTAL SHEETS
17	...

LEGEND

- SIGNS
- MOVEABLE BARRICADES (BY CONTRACTOR)
- DETOUR ROUTE
- ▨ PHASE 1 NEW CONSTRUCTION
- ▭ EMBANKMENT REQUIRED FOR CONSTRUCTION OF BRIDGE
- *** SILT FENCE
- CHANNELIZERS WITH TYPE B WARNING LIGHTS

SOUTH OUTER RD. (HWY. 175)



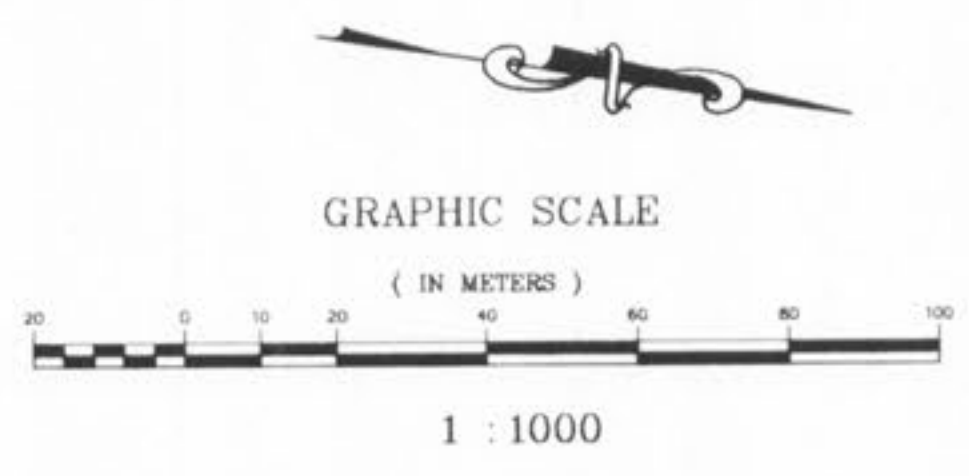
NOTES:

- 1) THERE ARE NUMEROUS UTILITY RELOCATIONS INVOLVED IN THIS PROJECT. CONTRACTOR TO COORDINATE WITH ALL UTILITY COMPANIES IN ORDER TO SYNCHRONIZE THE UTILITIES RELOCATIONS AND CONSTRUCTION PHASING.
- 2) CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ENTRANCEWAYS AT ALL TIMES.
- 3) CONTRACTOR TO RELOCATE EXISTING MAIL BOXES TO LOCATION DIRECTED BY ENGINEER.

NOTE:
THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

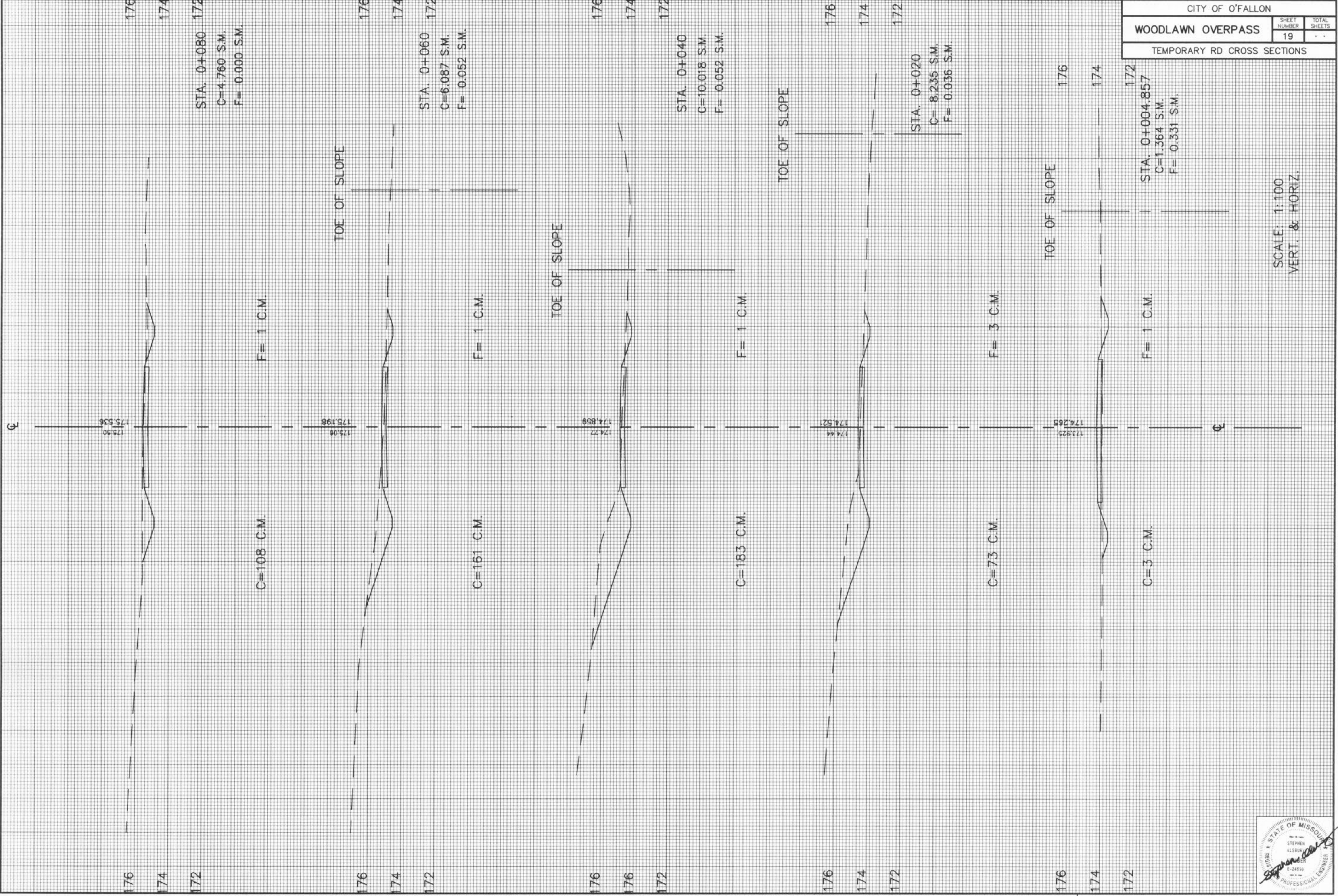
PHASE I CONSTRUCTION



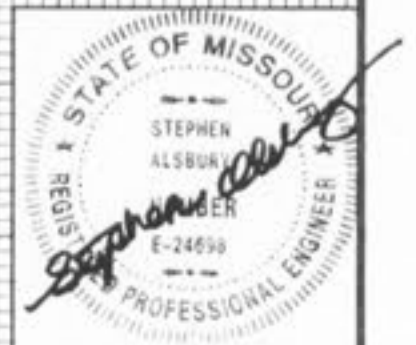


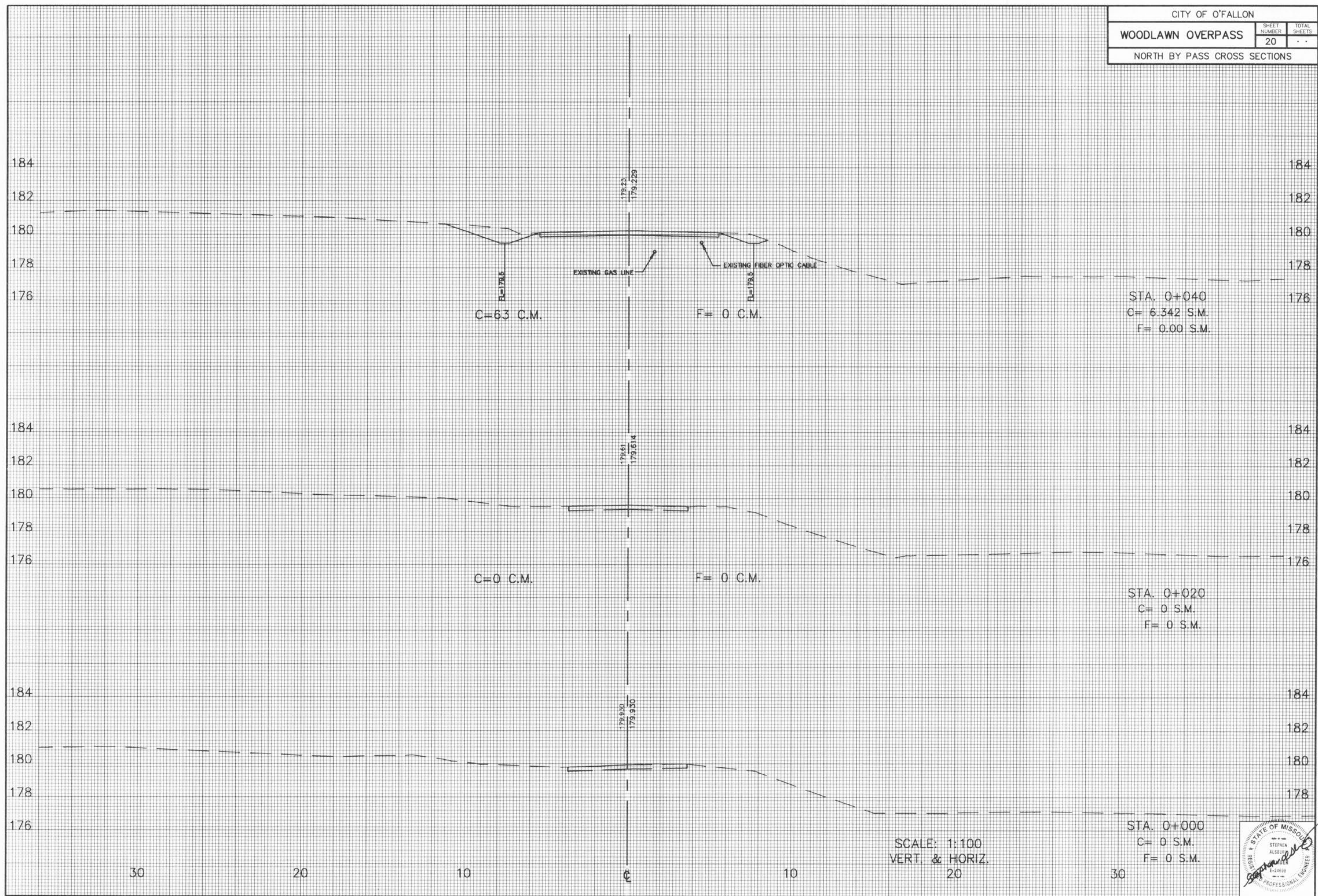
PHASE I CONSTRUCTION

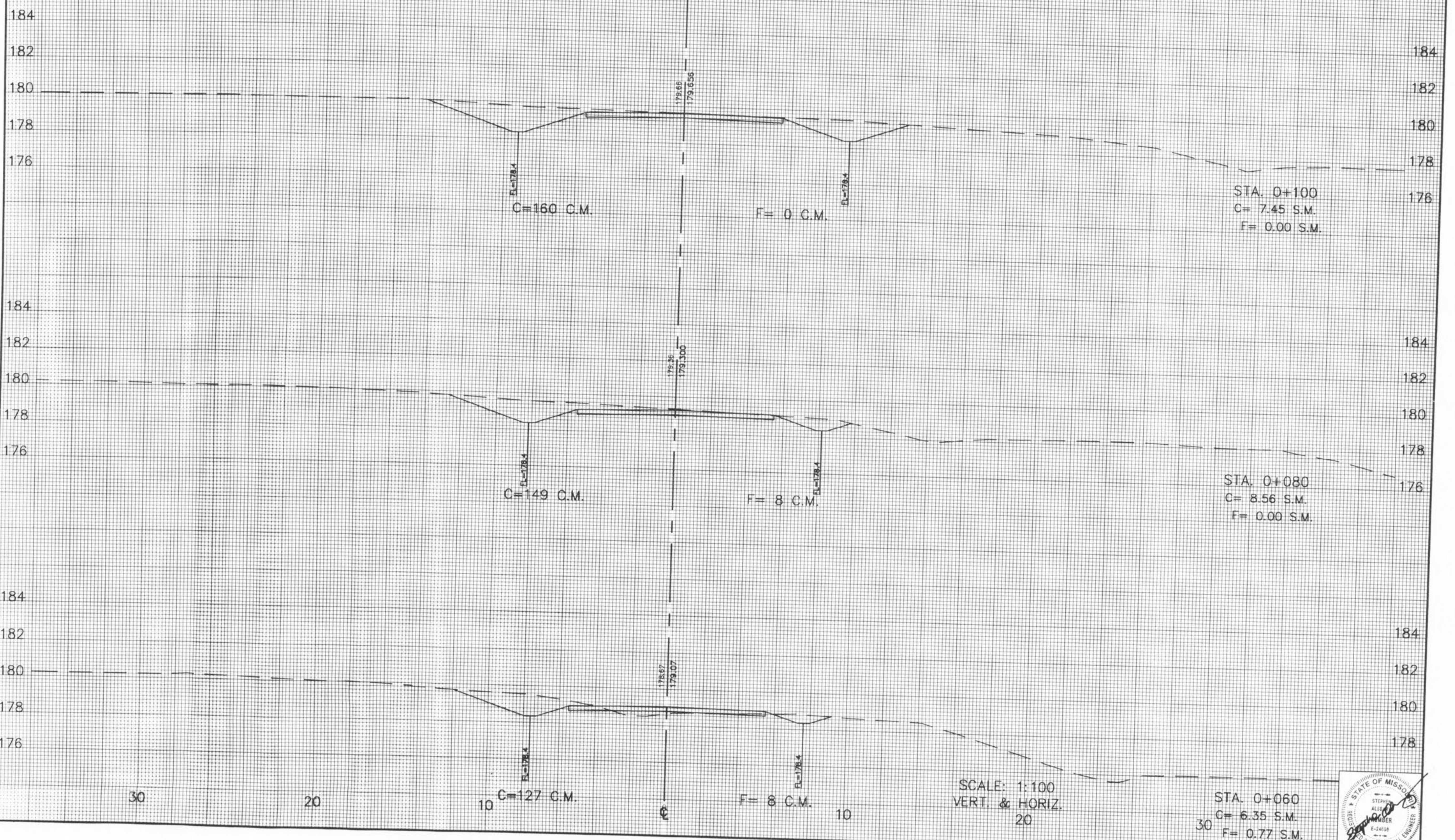


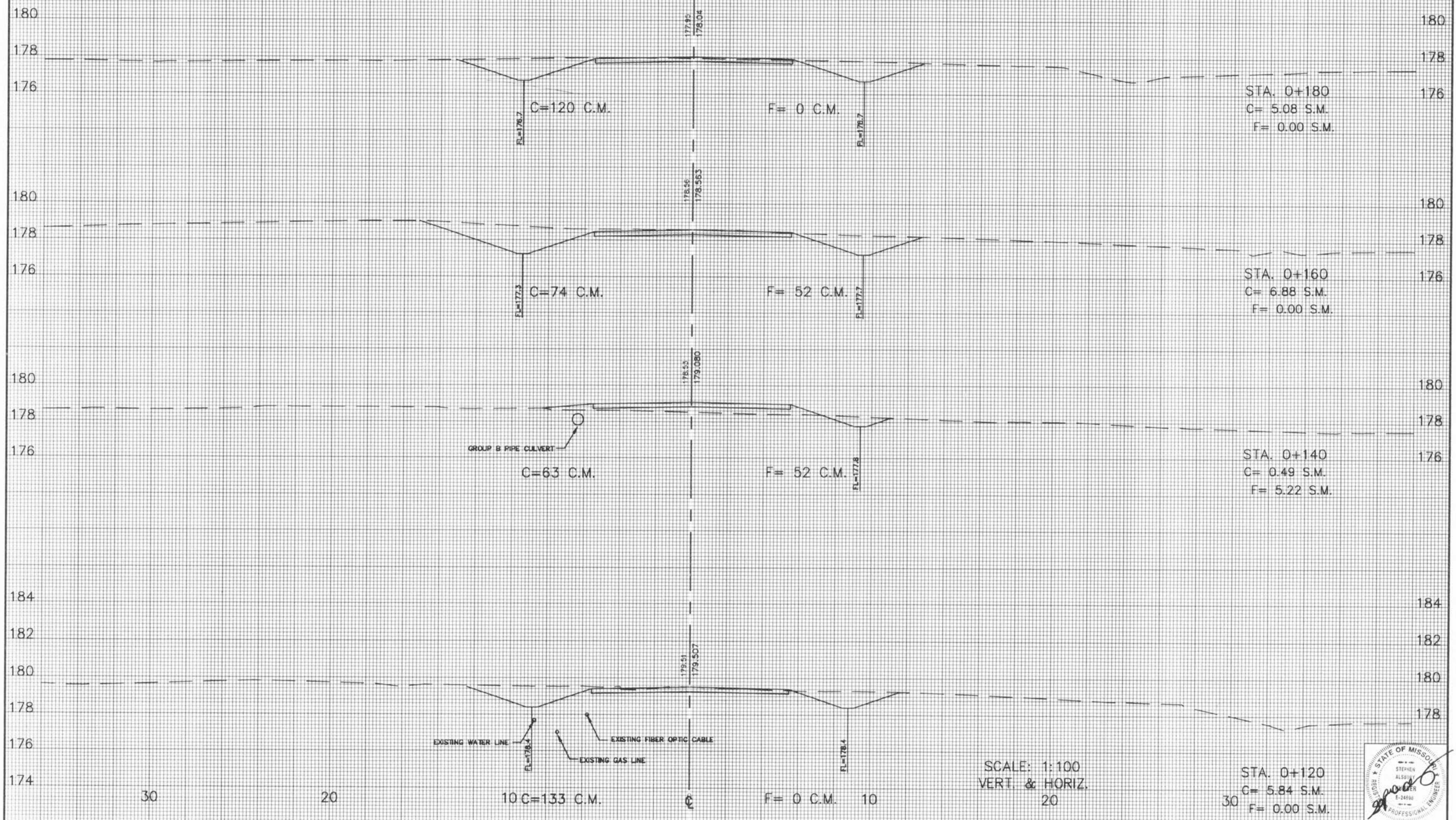


SCALE: 1:100
VERT. & HORIZ.

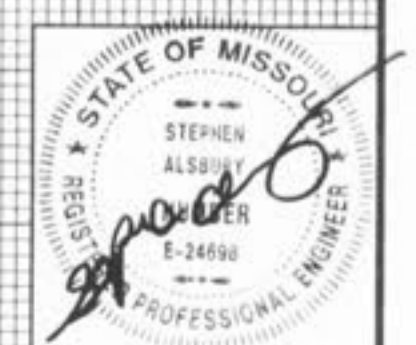








SCALE: 1:100
VERT. & HORIZ.
20



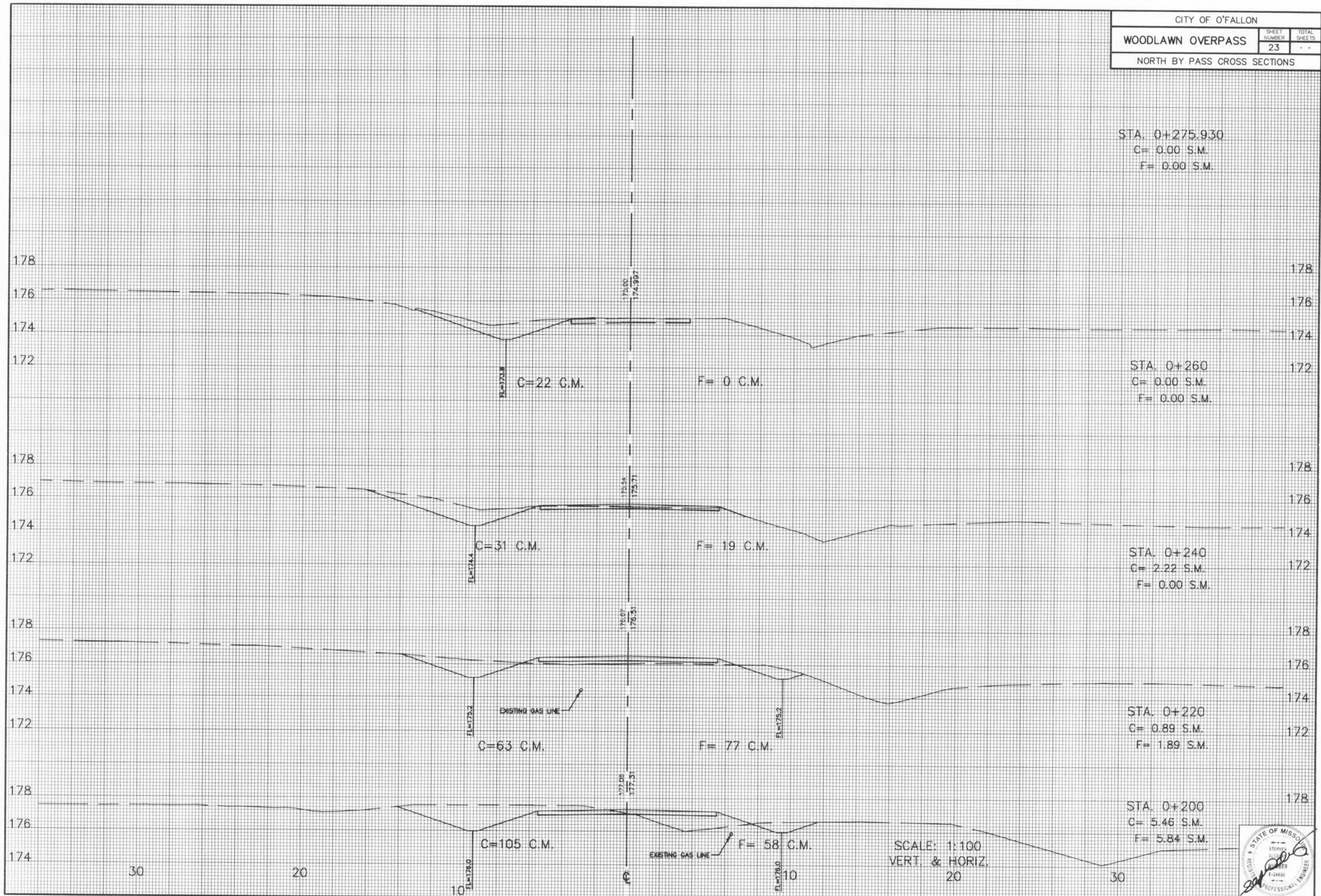
STA. 0+275.930
 C= 0.00 S.M.
 F= 0.00 S.M.

STA. 0+260
 C= 0.00 S.M.
 F= 0.00 S.M.

STA. 0+240
 C= 2.22 S.M.
 F= 0.00 S.M.

STA. 0+220
 C= 0.89 S.M.
 F= 1.89 S.M.

STA. 0+200
 C= 5.46 S.M.
 F= 5.84 S.M.



SCALE: 1:100
 VERT. & HORIZ.

