DESIGN DESIGNATION

A.D.T. 5,400 (2012)
A.D.T. 11,322 (2030)
V- DESIGN SPEED 35 mph
POSTED SPEED 30 mph (WITH EXCEPTIONS)
DESIGNATION: COLLECTOR

SALINE ROAD IMPROVEMENTS PHASE I

COUNTY OF JEFFERSON, MISSOURI

STP-5403(642) / TIP#5589-12
CONSTRUCTION PLANS

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017159
PROFESSIONAL ENGINEER
12/02/14
JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017159

The professional whose personal seal and/or signature appears on this cover assumes responsibility only for what appears on this sheet and disclaims (Pursuant to Section 327.411 RSMo) any responsibilities for all other drawings, supplemental drawings, plats, surveys, revisions, specifications, estimates, reports or other documents or instruments not sealed by the undersigned professional relating to or intended to be used for any part or parts of the project to which this sheet refers.

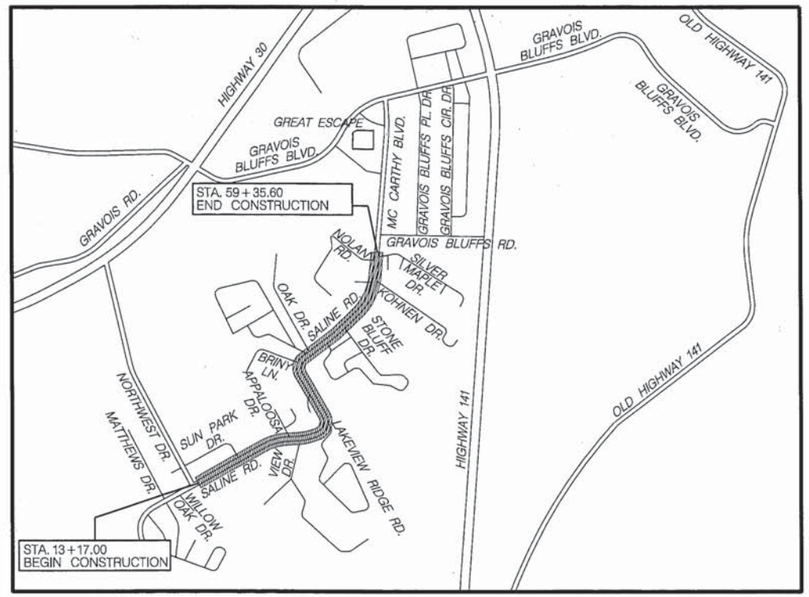
L E G E N D

DESCRIPTION	EXISTING	NEW
RIGHT-OF-WAY	EXIST.R/W	NEW R/W
PROPERTY LINE	℄	
PERMANENT DRAINAGE EASEMENT		P.D.E.
PERMANENT TRAFFIC SIGNAL EASEMENT		P.T.S.E.
TEMPORARY CONSTRUCTION EASEMENT		T.C.E.
PERMANENT SLOPE EASEMENT		P.S.E.
PERMANENT UTILITY EASEMENT		P.U.E.
UTILITY POLE (TYPE SPECIFIED)		
UNDERGROUND CONDUIT OR CABLE (TYPE SPECIFIED)		
WATER	W	
GAS	G	
TELEPHONE	T	
FORCE MAIN	FM	
POWER		
TELEPHONE RISER	T RISER	
GUY WIRE		
LIGHT STANDARD		
TRAFFIC SIGNAL		
TRAFFIC CONTROLLER		
TRAFFIC PULL BOX		
PIPE LINE (OWNER SPECIFIED)	SHELL	
V-DITCH		
TRAPEZOIDAL CHANNEL		
GAS VALVE	GV	
WATER VALVE		
WATER METER		
SEWER VENT	SV	
FIRE HYDRANT	HYD	
SANITARY SEWER	S	S
STORM SEWER	18" R.C.P.	18" R.C.P.
SEWER MANHOLE		
GRATED INLET		
CURB INLET (SINGLE)		
CURB INLET (MULTIPLE UNIT)		
IDENT. OF NEW OR MOD. DRAINAGE STRUCTURE	(B)	(12)
PIPE WITH FLARED END SECTION		
CONSTRUCTION LIMITS		
CONCRETE PAVEMENT		
ASPHALTIC CONCRETE PAVEMENT		
CONCRETE PAVEMENT REMOVAL		
TREE OR SHRUB (DESIGNAGE DIA. AND TYPE)		
HEDGE		
TREELINE		
FENCE		
GUARDRAIL		
RAILROAD		
SIGN		
BUILDING		
BUILDING REMOVAL		
MAILBOX		
FOUND PROPERTY PIN	IP	

A B B R E V I A T I O N S

ADJUST TO GRADE	(ATG)	MODULAR BLOCK RETAINING WALL	MBRW
ADJUST TO GRADE BY OTHERS	(ATGBO)	NOT TO SCALE	NTS
AHEAD	AHD.	PAGE	PG.
ASPHALT	ASPH.	PAVEMENT	PVMT.
BACK	BK.	PERMANENT	PERM.
BACK OF CURB	BOC	POWER POLE WITH LIGHT	PP/LS
BEGINNING OF PROJECT	BOP	PROFILE GRADE LINE	PGL
BITUMINOUS	BIT.	PROPOSED	PRPS. OR PROP.
BUILDING	BLDG.	RADIUS	R. OR RAD.
CENTER TO CENTER	(C-C)	RIGHT OF WAY	R/W OR ROW
CONCRETE	CONC.	ROAD	RD.
DO NOT DISTURB	DND	SIDEWALK	SDWK.
DRIVE	DR.	SHOULDER	SHLDR.
EACH	EA.	STATION	STA.
EASEMENT	ESMT.	SUPERELEVATION RATE	SE
EDGE OF PAVEMENT	EOP	TEMPORARY	TEMP.
ELEVATION	ELEV. OR EL.	TO BE ABANDONED	(TBA)
END OF PROJECT	EOP	TO BE ABANDONED AND FILLED	(TBA&F)
ENTRANCE	ENTR.	TO BE REMOVED	(TBR)
EXISTING	EXST. OR EXIST.	TO BE REM'D AND RELOCATED (BY CONTRACTOR)	(TBR&REL)
FACE TO BASELINE	(F-B)	TO BE REM'D AND REPLACED	(TBR&R)
FACE TO CENTERLINE	(F-℄)	TO BE REM'D AND REPLACED BY OTHERS	(TBRBO)
FACE OF CURB	FOC	TO BE REM'D TO CONSTR. LIMITS	(TBR TO CL)
FACE TO FACE	(F-F)	TURF REINFORCEMENT MAT	TRM
GATE POST	GP	TYPICAL	TYP.
MANHOLE	MH	USE IN PLACE	(UIP)
MAXIMUM SUPERELEVATION RATE	MSE	VERTICAL POINT OF CURVATURE	VPC
MINIMUM	MIN.	VERTICAL POINT OF INTERSECTION	VPI
		VERTICAL POINT OF TANGENCY	VPT

L O C A T I O N M A P



NORTH

SCALES:
1" = 20' HORIZONTAL – PLAN
1" = 20' H & 1" = 5' V – PROFILE
1" = 5' H & V – CROSS SECTIONS

PROJECT NOTES:

1. THE UTILITIES SHOWN ON THE DRAWINGS WERE LOCATED VISUALLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES BEFORE DIGGING.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT BOTH MISSOURI ONE CALL (DIGRITE) AND EACH INDIVIDUAL UTILITY THAT MAY NOT BE A PART OF THE MISSOURI ONE-CALL PROGRAM, TO ARRANGE FOR INDIVIDUAL UTILITY LOCATES. UTILITY CONTACTS FOR THIS PROJECT INCLUDE:

AT&T
Barry Foster
122 N. Second Street
Festus, MO 63028
(314) 931-7506

Ameren U.E.
James C. Hovis
6450 Highway MM
House Springs, MO 63051
(636) 671-6155

Laclede Gas
Brian Langebacher
3950 Forest Park Ave.
St. Louis, MO 63108
(314) 768-7767

Northeast Public Sewer
Dennis Arnold
1041 Gravois Road
Fenton, MO 63026
(636) 343-5090

AT&T
Joe Pippin
13075 Manchester Road
Des Peres, MO 63131
(314) 957-3740

Old AT&T Longlines Intercity & AT&T Fiber
PJ McDermott
3rd Floor
1425 Oak Street
Kansas City, MO 64106
(816) 275-4014

Charter Communications
Cory Birk
815 Charter Commons
Town & Country, MO 63017
(636) 387-6643

PWSD No. 3
Cheryl Moellering
1469 Old Hwy 21
Arnold, MO 63010
(636) 296-7053

3. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR HIGHWAY CONSTRUCTION (LATEST VERSION) AND THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST VERSION), BOTH AVAILABLE FOR DOWNLOAD OFF THE MODOT WEBSITE.

S H E E T I N D E X

HRGreen
16020 Swingley Ridge Road, Suite 205, St. Louis, Missouri 63017
Phone: (636) 519.0990 Facsimile: (636) 519.0996
MISSOURI – ILLINOIS – IOWA – MINNESOTA – SOUTH DAKOTA – TEXAS
www.hrgreen.com

APPROVED:

JASON JONAS, P.E.
DIRECTOR OF PUBLIC WORKS

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 13+17.00
END OF PROJECT	STA. 59+35.60
APPARENT LENGTH	4,618.60 FEET
EQUATIONS AND EXCEPTIONS	NONE
TOTAL CORRECTIONS	NONE
NET LENGTH OF PROJECT	4,618.60 FEET 0.87 MILES

SUMMARY OF QUANTITIES - STP-5403(642)

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	ROADWAY ITEMS		
201-20.10	CLEARING AND GRUBBING	L.S.	1
202-20.10	REMOVAL OF IMPROVEMENTS	L.S.	1
203-10.00	CLASS A EXCAVATION	C.Y.	14,145
203-20.00	CLASS C EXCAVATION (ROCK BENCHING)	C.Y.	549
203-60.00	COMPACTING EMBANKMENT	C.Y.	1,436
206-30.00	CLASS 3 EXCAVATION	C.Y.	3,623
206-31.00	CLASS 3 EXCAVATION IN ROCK	C.Y.	1,543
207-99.09	LINEAR GRADING, SPECIAL	L.F.	1,000
304-05.04	TYPE 5 AGGREGATE FOR BASE (4" THICK)	S.Y.	19,287
310-60.03	GRAVEL (A) OR CHAT (C)	S.Y.	294
405-10.10**	TEMPORARY PAVEMENT, 6-INCH THICK ASPHALT	S.Y.	1,246
401-12.09	BITUMINOUS PAVEMENT MIXTURE PG64-22, (BP-1)	TON	1,712.2
401-30.00	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE)	TON	6,802.3
407-10.05	TACK COAT	GAL.	710
408-10.10	PRIME-LIQUID ASPHALT RC 70 OR MC 30	GAL.	4,920
502-11.06	CONCRETE PAVEMENT (6" NON-REINFORCED)	S.Y.	468
603-10.30*	ADJUST WATER SERVICE VALVE AND BOX TO GRADE	EACH	18
603-10.31**	ADJUST WATER METER	EACH	13
603-10.99*	ADJUST GAS SERVICE VALVE TO GRADE	EACH	4
604-05.08*	8" YARD INLINE DRAIN	EACH	2
604-12.01*	SINGLE CURB INLET, UNTRAPPED	EACH	6
604-14.04*	AREA INLET, SINGLE, OPEN 4 SIDES, UNTRAPPED	EACH	1
604-20.00**	REMOVE AND REPLACE HYDRANT	EACH	2
604-20.10	ADJUSTING MANHOLE TO GRADE	EACH	1
604-20.11**	MISCELLANEOUS (PULLBOXES, OTHER)	EACH	5
604-80.06*	SLOTTED DRAIN (6")	L.F.	90
606-10.10	GUARDRAIL TYPE A	L.F.	572
606-30.15	TYPE A CRASHWORTY END TERMINAL	EACH	1
606-66.10	END ANCHOR	EACH	1
607-10.10A	42" CHAIN LINK FENCE	L.F.	276
607-10.10B	6' WOOD PRIVACY FENCE	L.F.	495
607-10.10C	48" WHITE VINYL PRIVACY FENCE	L.F.	72
607-10.30	WALK GATE (CHAIN LINK)	EACH	1
607-10.50	CHAIN LINK FENCE ON RETAINING WALL	L.F.	82
608-50.06**	PAVED APPROACH (6")	S.Y.	1,105.3
608-60.04	CONCRETE SIDEWALK, 4 IN.	S.Y.	17.6
608-70.00	CONCRETE STEPS	S.F.	190.0
609-10.10	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S	L.F.	61
609-10.52	CURB AND GUTTER TYPE B	L.F.	8,710
609-20.12	INTEGRAL CURB (6 IN. HEIGHT AND UNDER) TYPE B	L.F.	32
609-20.13	INTEGRAL CURB TYPE M	L.F.	47
609-20.32	CONCRETE CURB LOW PROFILE TYPE F	L.F.	76
609-30.15	ASPHALT CURB (4 INCH)	L.F.	75
611-99.05	ROCK BLANKET TYPE 2	S.Y.	92.3
618-10.00	MOBILIZATION	L.S.	1
622-10.01	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)	S.Y.	233
627-40.00	CONTRACTOR FURNISHED SURVEYING AND STAKING	L.S.	1
712-35.00	RAILING FOR STEPS	L.F.	30
720-10.00	MECHANICALLY STABILIZED EARTH WALL SYSTEMS	S.F.	1,483
720-99.04	MECHANICALLY STABILIZED EARTH WALL SYSTEMS - LARGE BLOCK	S.F.	2,282
726-10.12	12 IN. PIPE GROUP A	L.F.	232
726-10.15	15 IN. PIPE GROUP A	L.F.	2,668
726-10.18	18 IN. PIPE GROUP A	L.F.	636
726-10.24	24 IN. PIPE GROUP A	L.F.	530
726-10.36	36 IN. PIPE GROUP A	L.F.	16
726-11.15**	TEMPORARY 15" CORRUGATED METAL PIPE	L.F.	135
726-54.04*	4" POLYVINYL CHLORIDE PIPE	L.F.	65
726-54.08*	8" POLYVINYL CHLORIDE PIPE	L.F.	144
731-00.42*	PRECAST CONCRETE MANHOLE (42")	EACH	3
731-10.42	PRECAST CONCRETE DROP INLET 4 FT X2 FT	FT.	5
731-99.02**	PRECAST DROP INLET WITH GRATE AND FRAME	EACH	52
732-06.15A	15 IN. OR ALLOWED SUBSTITUTE GROUP A FLARED END SECTION	EACH	3
732-06.24A	24 IN. OR ALLOWED SUBSTITUTE GROUP A FLARED END SECTION	EACH	3
806-10.19	SILT FENCE	L.F.	4,060
806-10.25	INLET CHECK	EACH	58
806-41.24	TYPE 5 EROSION CONTROL BLANKET	S.Y.	1,142
	SIGNING, STRIPING, SIGNALS AND LIGHTING ITEMS		
616-10.05	CONSTRUCTION SIGNS	S.F.	612
616-10.28	CHANNELIZER	EACH	207
616-10.31	TYPE III MOVEABLE BARRICADE WITH LIGHT	EACH	13
616-10.98	CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED (RENTAL)	EACH	4
617-36.00D	TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED	L.F.	392
620-60.00B	4 IN. WHITE ACRYLIC WATERBORNE PAVEMENT MARKING PAINT	L.F.	15,531
620-60.01B	4 IN. YELLOW ACRYLIC WATERBORNE PAVEMENT MARKING PAINT	L.F.	15,716
620-61.24	ACRYLIC WATERBORNE PAVEMENT MARKING PAINT, 24 IN., WHITE	L.F.	12
903-50.10**	PERMANENT SIGNING	S.F.	323
	LANDSCAPING		
804-10.00	TOPSOIL	C.Y.	1089.3
805-10.00A	SEEDING-COOL SEASON MIXTURES	ACRE	2.0

NOTES:

ALL BID ITEMS REFER TO LATEST EDITION OF MISSOURI STANDARDS FOR HIGHWAY CONSTRUCTION, BY MODOT
* = REFER TO LATEST EDITION OF ST. LOUIS COUNTY STANDARDS FOR HIGHWAY CONSTRUCTION
** = JOB SPECIAL PROVISIONS, AS ATTACHED IN THE PROJECT MANUAL

CONSTRUCTION SIGNS ARE FOR USE IN TRAFFIC CONTROL AND ARE TEMPORARY. RELOCATION OF THE SIGNS DURING VARIOUS STAGES OF CONSTRUCTION IS CONSIDERED INCIDENTAL TO QUANTITY OF CONSTRUCTION SIGNAGE.

BID FOR PIPE INCLUDES EXCAVATION AND GRANULAR BACKFILL AS REQUIRED IN THE SPECIFICATIONS

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017759
PROFESSIONAL ENGINEER
12/02/14

JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017759

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STANDARDS TO BE USED FOR THIS PROJECT

The Missouri Department of Transportation's Standard Specifications for Highway Construction have been adopted for use on this project. Current editions of these plans can be downloaded from MoDOT's website at www.modot.org. The following sections are specifically applicable to this project:

604.40	606.00	606.30	607.10	607.11	608.10
608.20	609.00	609.70	614.11	614.30	616.10
620.00	726.30	731.00	731.10	732.00	806.10
903.03					

ENTRANCE PAVEMENT REMOVAL

SHEET	STATION	STATION	ROUTE	LOCATION	PAVEMENT AREA (SF)	PAVEMENT AREA (SY)
PLN-01	13+79	14+12	SALINE	RT	238	26
PLN-01	14+18	14+50	SALINE	RT	377	42
PLN-02	18+99	19+69	SALINE	LT	1362	151
PLN-03	22+37	22+59	SALINE	RT	153	17
PLN-04	25+67	25+88	SALINE	RT	228	25
PLN-04	26+22	27+05	SALINE	LT	1727	192
PLN-04	26+77	26+95	SALINE	RT	61	7
PLN-04	27+60	27+85	SALINE	LT	332	37
PLN-04	27+83	28+37	SALINE	RT	1099	122
PLN-05	31+28	32+89	SALINE	RT	3077	342
PLN-06	36+11	37+04	SALINE	LT	1915	213
PLN-06	40+62	41+14	SALINE	LT	1660	184
PLN-06	40+69	40+92	SALINE	RT	775	86
PLN-06	40+97	41+64	SALINE	RT	3067	341
PLN-07	42+01	42+94	SALINE	LT	2680	298
PLN-07	43+24	43+62	SALINE	RT	270	30
PLN-07	43+50	43+78	SALINE	LT	388	43
PLN-07	44+58	45+67	SALINE	RT	1707	190
PLN-07	44+59	46+21	SALINE	LT	2276	253
PLN-07	46+40	46+61	SALINE	LT	226	25
PLN-08	47+64	48+55	SALINE	RT	1700	189
PLN-08	47+98	48+23	SALINE	LT	210	23
PLN-08	48+89	49+26	SALINE	RT	551	61
PLN-08	49+49	49+66	SALINE	RT	146	16
PLN-08	49+81	50+01	SALINE	LT	159	18
PLN-09	53+35	53+60	SALINE	LT	487	54
PLN-09	55+22	55+99	SALINE	LT	770	86
PLN-09	55+43	55+98	SALINE	RT	1210	134
PLN-09	56+72	57+09	SALINE	LT	575	64
PLN-09	57+43	57+77	SALINE	RT	495	55
PLN-09	57+77	58+13	SALINE	RT	763	85
PLN-10	58+52	59+37	SALINE	RT	1452	161
				TOTAL =		3571

CLEARING AND GRUBBING

SHEET	STATION	STATION	ROUTE	LOCATION	CLEARING & GRUBBING (SF)	CLEARING & GRUBBING (ACRE)
PNP-02	14+88	15+15	SALINE	LT	319	0.01
PNP-02	15+92	16+50	SALINE	RT	439	0.02
PNP-02	19+16	19+46	SALINE	RT	94	0.01
PNP-03	22+12	22+36	SALINE	RT	159	0.01
PNP-04	27+38	27+61	SALINE	LT	91	0.01
PNP-04	29+56	30+19	SALINE	LT	211	0.01
PNP-05	31+31	32+57	SALINE	RT	3797	0.09
PNP-05	34+92	35+60	SALINE	RT	231	0.01
PNP-06	36+50	37+01	SALINE	LT	442	0.02
PNP-06	37+24	39+69	SALINE	RT	1786	0.05
PNP-06	40+08	40+33	SALINE	LT	111	0.01
PNP-07	42+38	42+51	SALINE	LT	37	0.01
PNP-07	44+78	44+97	SALINE	LT	186	0.01
PNP-09	53+84	54+45	SALINE	LT	358	0.01
PNP-09	55+66	56+22	SALINE	RT	521	0.02
PNP-09	56+62	57+47	SALINE	RT	334	0.01
PNP-10	58+00	58+22	SALINE	LT	339	0.01
				TOTAL =		0.3

SIDEWALK AND CURB REMOVAL

SHEET	STATION	STATION	ROUTE	LOCATION	CONCRETE CURB (LF)	SIDEWALK AREA (SY)
PNP-02	15+59	15+62	SALINE	RT		5
PNP-02	19+00	19+20	SALINE	LT	59	
PNP-02	19+51	19+53	SALINE	LT	11	
PNP-04	26+24	26+31	SALINE	LT	42	
PNP-04	26+45	26+99	SALINE	LT	77	
PNP-06	36+11	36+48	SALINE	LT	59	
PNP-06	36+26	36+50	SALINE	LT	52	
PNP-06	36+50	36+79	SALINE	LT	64	
PNP-06	40+78	40+94	SALINE	RT	33	
PNP-06	41+03	41+50	SALINE	LT		13
PNP-07	41+50	42+08	SALINE	LT		13
PNP-07	44+73	44+96	SALINE	RT	37	
PNP-07	45+32	45+52	SALINE	RT	33	
PNP-08	47+78	47+92	SALINE	RT	26	
PNP-08	48+29	48+40	SALINE	RT	26	
PNP-10	58+20	58+34	SALINE	LT	35	
PNP-10	58+62	58+75	SALINE	LT	34	
PNP-10	58+68	58+89	SALINE	RT	40	
PNP-10	59+17	59+37	SALINE	RT	32	
				TOTAL =	660	31

ROADWAY PAVEMENT REMOVAL

SHEET	STATION	STATION	ROUTE	PAVEMENT AREA (SF)	PAVEMENT AREA (SY)
ROADWAY					
PNP-01	13+17	14+50	SALINE	3387	376
PNP-02	14+50	20+00	SALINE	13437	1493
PNP-03	20+00	25+50	SALINE	12975	1442
PNP-04	25+50	31+00	SALINE	13838	1538
PNP-05	31+00	36+00	SALINE	14115	1568
PNP-06	36+00	41+50	SALINE	15024	1669
PNP-07	41+50	47+00	SALINE	14085	1565
PNP-08	47+00	52+50	SALINE	14129	1570
PNP-09	52+50	58+00	SALINE	13326	1481
PNP-10	58+00	59+37	SALINE	4374	486
			TOTAL =		13188

EARTHWORK

LOCATION	203-10.00 CLASS A EXCAVATION (C.Y.)	203-20.00 CLASS C EXCAVATION (ROCK BENCH) (C.Y.)	203-60.00 COMPACTING EMBANKMENT (C.Y.)
SALINE	12,839		1,336
ROCK BENCH-STA 28+32 TO STA 30+95		549	
DRIVEWAY ADD YARDAGES	1,306		100
TOTALS =	14,145	549	1,436

MOBILIZATION = 1 LUMP SUM

381 SALINE RD. IMPROVEMENTS = 1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING = 1 LUMP SUM

DRAWN BY: EBS JOB DATE: 02/2012 - 12/2014
APPROVED: JSD JOB NUMBER: 75110022
CAD DATE: 12/3/2014 6:55:02 AM
CAD FILE: \\hrgwdfs004\Data\75110022\CAD\Data_qty_01.dgn

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
16020 SWINGLEY RIDGE ROAD SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006008

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

QUANTITIES
(Sheet 1 of 6)

SHEET NO.
QTY-01
2 of 99

JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017169
12/02/14

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MAINLINE ASPHALT ROADWAY PAVEMENT AND RELATED ITEMS

SHEET	STATION	STATION	STREET	LENGTH (L.F.)	PAVEMENT WIDTH (FT)	304-05.04 TYPE 5 AGGREGATE FOR BASE (4" THICK) (SY)	401-12.09 BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1) (TON)	401-30.00 BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE) (TON)	407-10.05 TACK COAT (GAL)	408-10.10 PRIME LIQUID ASPHALT (GAL)	NOTES
									0.05gal/sy	0.35gal/sy	
PNP-01	BOP	14+50	SALINE	133	26.0	436	39.6	168.1	16	115	INCLUDES WIDENING AT 13+00 LEFT
PNP-02	14+50	20+00	SALINE	550	26.0	1875	174.2	740.5	73	508	INCLUDES APPROACH TO 19+34.53 DRIVE
PNP-03	20+00	25+50	SALINE	550	26.0	1772	161.3	685.7	67	471	
PNP-04	25+50	31+00	SALINE	550	26.0	1966	183.5	779.8	76	535	INCL. APPROACHES TO 26+64.38 & 27+99.44 DRIVES
PNP-05	31+00	36+00	SALINE	500	26.0	2005	153.2	651.1	64	447	INCL. APPROACHES TO 32+35.43 & 36+43.73 DRIVES
PNP-06	36+00	41+50	SALINE	550	26.0	1890	210.3	893.8	88	613	INCL. APPROACHES TO 40+78.58 & 40+87.39 DRIVES
PNP-07	41+50	47+00	SALINE	550	26.0	1916	178.1	757.0	74	520	INCL. APPROACHES TO 42+17.98 & 42+75.74 DRIVES
PNP-08	47+00	52+50	SALINE	550	26.0	1772	161.3	685.7	67	471	
PNP-09	52+50	58+00	SALINE	550	26.0	1826	167.4	711.4	70	488	INCLUDES APPROACH TO 55+89.24 DRIVE
PNP-10	58+00	EOP	SALINE	136	26.0	709	72.3	307.2	30	211	INCL. APPROACHES TO 58+48.06 & 58+89.34 DRIVES
					TOTALS =	16167	1501.2	6380.3	630	4380	

DRIVE APPROACH, DRIVEWAY PAVEMENT, AND SIDEROAD PAVEMENT

SHEET	STATION	SIDE	STREET	WIDTH (FT)	304-05.04 TYPE 5 AGGREGATE BASE (4" THICK) (S.Y.)	502-11.06 CONCRETE PAVEMENT (6" NON-REINFORCED) (SY)	310-60.03 GRAVEL (A) CHAT (SY)	622-10.01 COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (SY)	608-50.06** PAVED APPROACH (6") (S.Y.)	401-12.09 BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1) (TONS)	401-30.00 BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE) (TONS)	407-10.05 TACK LIQUID ASPHALT (GAL)	408-10.10 PRIME LIQUID ASPHALT (GAL)	608-60.04 CONCRETE SIDEWALK, 4 IN. (S.Y.)	NOTES
												0.05gal/sy	0.35gal/sy		
PNP-01	13+92.57	RT	SALINE	22.0	58.1		13		21.6	5.1	10.1	2	15		
PNP-01	14+40.75	RT	SALINE	18.0	24.5		28		18.4	1.6	3.1	1	5		
PNP-02	14+85.41	RT	SALINE	14.0	19.9		23		15.0	1.2	2.4	1	4		
PNP-02	15+59.25	RT	SALINE	3.0	13.0						0.0			8.0	
PNP-02	19+34.53	LT	SALINE	31.1				233		27.9	55.8				
PNP-03	21+00.56	RT	SALINE	14.0	19.1				15.0	1.1	2.3		3		
PNP-03	21+75.02	RT	SALINE	14.0	17.0				15.0	0.9	1.8		3		
PNP-03	22+48.57	RT	SALINE	15.0	18.3				15.8	1.0	2.0		3		
PNP-03	23+45.30	LT	SALINE	16.0	39.2				16.6	3.2	6.4	1	9		
PNP-03	23+60.78	RT	SALINE	18.0	28.4		9		18.4	2.0	4.0	1	6		
PNP-03	24+80.80	RT	SALINE	14.0	19.9		7		15.1	1.2	2.4	1	4		
PNP-04	25+77.68	RT	SALINE	18.0	21.1				18.4	1.2	2.4		3		
PNP-04	26+56.08	RT	SALINE	14.0	19.6		12		15.1	1.2	2.3		3		
PNP-04	26+64.38	LT	SALINE	24.0	37.1	34.3					0.0				
PNP-04	26+85.46	RT	SALINE	16.0	22.1		14		16.7	1.4	2.7	1	4		
PNP-04	27+64.57	LT	SALINE	16.0	35.4	22.8			17.4		0.0				
PNP-04	27+99.44	RT	SALINE	22.0	83.3					9.1	18.2	4	26		
PNP-05	32+35.43	RT	SALINE	22.0	415.3	341.1					0.0				
PNP-06	36+44	LT	SALINE	11.5	70.1	46.8			22.4		0.0				
PNP-06	40+32	LT	SALINE	VARIES	242.5				29.1	23.8	47.6	10	69		
PNP-06	40+78.58	RT	SALINE	22.0	147.0				58.0	9.7	19.4	4	28		
PNP-06	40+87.39	LT	SALINE	22.0	129.0					14.2	28.4	6	41		
PNP-07	42+17.98	LT	SALINE	22.0	79.8					8.8	17.6	4	26		
PNP-07	42+75.74	LT	SALINE	22.0	48.3					5.3	10.6	2	15		
PNP-07	43+64.16	LT	SALINE	28.5	39.5	23.1			27.1		0.0				
PNP-07	44+71.88	LT	SALINE	16.0	124.9				16.8	12.5	25.0	5	36		
PNP-07	45+14.29	RT	SALINE	35.0	141.2				164.1		0.0				
PNP-07	45+20.29	LT	SALINE	34.0	134.4				32.2	11.1	22.2	5	32		INCL. AGG. & ASPHALT FOR 46+01.15
PNP-07	46+01.15	LT	SALINE	15.0					17.3		0.0				AGG. & ASPHALT INCLUDED IN 45+20.29
PNP-07	46+48.52	LT	SALINE	14.0	20.4		22		15.0	1.3	2.5	1	4		
PNP-08	48+08.81	LT	SALINE	14.0	24.0				15.0	1.6	3.2	1	5		
PNP-08	48+09.95	RT	SALINE	37.0	153.6				178.0		0.0				
PNP-08	48+95.50	LT	SALINE	18.0	24.4		34		18.3	1.5	3.1	1	5		
PNP-08	49+05.06	RT	SALINE	26.0	16.0				25.2		0.0				
PNP-08	49+56.42	RT	SALINE	14.0	16.3				15.0	0.8	1.6		2		
PNP-08	49+89.94	LT	SALINE	14.0	16.2				15.0	0.8	1.6		2		
PNP-08	51+06.52	RT	SALINE	14.0	19.3		10		15.0	1.1	2.3		3		
PNP-08	51+15.17	LT	SALINE	22.0	25.9		43		22.8	1.5	2.9	1	4		INCL. GRAVEL BETWEEN DRIVES
PNP-08	51+54.53	LT	SALINE	22.0	26.2				22.3	1.5	3.1	1	4		
PNP-08	51+94.36	LT	SALINE	12.0	17.1		52		13.3	1.0	2.0	1	3		
PNP-09	53+25.32	RT	SALINE	24.0	32.6		28		23.2	2.2	4.5	1	7		
PNP-09	53+44.78	LT	SALINE	19.0	75.9				17.7	7.2	14.4	3	21		INCL. AREA BETWEEN DRIVES
PNP-09	53+55.26	LT	SALINE	14.8	103.0				14.0	9.9	19.8	4	29		
PNP-09	55+37.83	LT	SALINE	24.0	41.6				23.3	3.2	6.4	1	9		
PNP-09	55+86.43	LT	SALINE	16.0	44.1				16.7	3.6	7.3	2	11		
PNP-09	55+89.24	RT	SALINE	21.8	124.5					13.7	27.4	6	40		
PNP-09	56+92.87	LT	SALINE	49.0	172.1				31.6	6.1	12.2	3	21	10	QUANTITIES BY JEFFERSON CO.
PNP-09	57+54.49	RT	SALINE	14.0	44.6				15.0	3.8	7.6	2	11		
PNP-09/10	57+89.04	RT	SALINE	21.0	74.1				23.4	6.7	13.4	3	20		
				TOTALS =	3119.9	468.1	294	233	1105.3	211.0	422.0	80	540	18	

LINEAR GRADING, SPECIAL

SHEET	TYPE	STATION	SIDE	ACTUAL LENGTH	207-99.09 LINEAR GRADING, SPECIAL (L.F.)
PNP-04	PRIV. ROAD	26+64.58	LT.	53	53
PNP-04	PRIV. ROAD	27+99.44	LT.	52	52
PNP-05	PRIV. ROAD	32+35.43	RT.	180	180
PNP-06	PRIV. ROAD	36+43.73	LT.	68	68
PNP-06	DRIVEWAY	40+32.16	LT.	114	114
PNP-06	PRIV. ROAD	40+78.58	RT.	76	76
PNP-06	PRIV. ROAD	40+87.39	LT.	73	73
PNP-07	PRIV. ROAD	42+17.96	LT.	54	54
PNP-07	PRIV. ROAD	42+75.74	LT.	45	45
PNP-08	DRIVEWAY	51+54.53 *	LT.	38	38
PNP-08	DRIVEWAY	51+94.36	LT.	38	38
PNP-08	DRIVEWAY	53+44.78	LT.	35	35
PNP-08	DRIVEWAY	53+55.76	LT.	66	66
PNP-09	PRIV. ROAD	55+89.24	RT.	55	55
PNP-09	DRIVEWAY	56+92.87	LT.	44	44
				SUBTOTAL	991
				TOTALS =	1000

* ACCOUNTS FOR GRAVEL CONNECTOR BETWEEN THE TWO DRIVEWAYS

SANITARY SEWER ITEMS

LOCATION	731-00.42* PRECAST CONCRETE MANHOLE, 42" (EACH)	726-54.04* 4" POLYVINYL CHLORIDE PIPE (L.F.)
STA. 40+52, 50' RT. (INTERSECTION SALINE AT FIELDCREST)	1	
LATERAL RECONNECTION (SALINE AT FIELDCREST DR.)		65
TOTALS =	1	65

DRAWN BY:	EBS	JOB DATE:	02/2012 - 12/2014
APPROVED:	JSD	JOB NUMBER:	75110022
CAD DATE:	12/3/2014	6:54:07 AM	
CAD FILE:	\\hrgwdfs004\Data\75110022\CAD\Data_qty_02.dgn		

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
16020 SWINGLEY RIDGE ROAD, SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

QUANTITIES
(Sheet 2 of 6)

SHEET NO.
QTY-02

DRAINAGE PIPE, STRUCTURES, AND RELATED

ROADWAY	FROM STRUCTURE	TO STRUCTURE	STATION	OFFSET	SIDE	604-05.08* 8" YARD INLINE DRAIN (EA)	604-12.01* SINGLE CURB INLET, (EA)	604-14.04* AREA INLET, SINGLE, OPEN 4 SIDES, (EA)	604-80.06* SLOTTED DRAIN (6") (LF)	731-99.02** PRECAST DROP INLET WITH GRATE AND FRAME (EA)	611-99.05 ROCK BLANKET TYPE 2 (SY)	731-00.42* PRECAST CONCRETE MANHOLE, 42" (EA)	731-10.42 PRECAST CONCRETE DROP INLET 4 FT X 2 FT (FT)	732-06.15A 15" GROUP A FLARED END SECTION (EA.)	732-06.24A 24" GROUP A FLARED END SECTION (EA.)	726-10.36 36 IN. PIPE GROUP A (LF)	726-10.24 24 IN. PIPE GROUP A (LF)	726-10.18 18 IN. PIPE GROUP A (LF)	726-10.15 15 IN. PIPE GROUP A (LF)	726-10.12 12 IN. PIPE GROUP A (LF)	726-54.08* 8" POLYVINYL CHLORIDE PIPE (LF)	206-30.00 CLASS 3 EXCAVATION (CY)	206-31.00 CLASS 3 EXCAVATION IN ROCK (CY)	
SALINE	GI 13	GI 12	13+25	12.0	RT					1								24			27.2		
SALINE	GI 12	FES 11	13+25	14.3	LT					1								33			33.1		
SALINE	FES 11		12+95	29.2	LT									1							1.5		
SALINE	GI 23	GI 22	17+80	12.0	LT					1								134			116.5		
SALINE	GI 22	GI 21	19+17	12.0	LT								5					22			27.7		
SALINE	GI 21	FES 20	19+17	12.0	RT					1								19			20.5		
SALINE	FES20		19+21	29.4	RT						58.9			1							1.5		
SALINE	CI 111	EXFES	19+15	46.0	LT		1									16					24.4		
SALINE	GI 110	EXFES	19+54	12.0	LT																		USE EXISTING GRATE & ATG
SALINE	GI 49	GI 48	41+50	12.0	LT					1								22			29.8		
SALINE	GI 48	GI 47	41+50	12.0	RT					1								126			147		
SALINE	GI 47	GI 46	40+10	12.0	RT					1								78			84.1		
SALINE	CI 44	AI 43	40+97	34.8	LT		1												45		64.7		
SALINE	AI 43	MH 41	40+60	42.0	LT			1											73		85.6		
SALINE	GI 42	MH 41	39+99	48.6	LT					1									19		11.6		
SALINE	MH 41	GI 45	40+00	30.2	LT							1							87		87.7		
SALINE	GI 45	GI 46	39+24	12.0	LT					1								22			25.7		
SALINE	GI 46	GI 64	39+24	12.0	RT					1								37			37.2		
SALINE	EX CI	GI 64	38+85	26.0	RT															13	4		INCLUDES FITTINGS AND BENDS
SALINE	GI 64	GI 63	38+85	12.0	RT					1								76			73.4		
SALINE	GI 63	GI 62	38+07	12.0	RT					1								120			126.1		
SALINE	GI 61	GI 62	36+85	12.0	LT					1								22			15.9		
SALINE	GI 62	GI 55	36+85	12.0	RT					1								122			147.5		
SALINE	GI 55	GI 54	35+60	12.0	RT					1								184			120	120	
SALINE	GI 57	GI 54	33+73	12.0	LT					1								22				34.6	
SALINE	GI 54	GI 53	33+73	12.0	RT					1								110				179.4	OPEN TO THE BACK SIDE PER
SALINE	GI 53	GI 52	32+65	12.5	RT					1								56				86.2	DETAIL - NO ADD'L PAY
SALINE	GI 51	GI 52	32+06	12.0	LT					1								22				27.3	
SALINE	CI 56	GI 52	32+07	42.7	RT		1											29				41.1	
SALINE	GI 52	GI 58	32+11	12.0	RT					1								58				69.5	
SALINE	GI 58	GI 37	31+55	12.0	RT					1								58				67.7	
SALINE	GI 37	GI 36	31+00	12.0	RT					1								86				107.6	
SALINE	GI 41	GI 36	30+15	12.0	LT					1								22				37.6	
SALINE	GI 36	GI 35	30+15	12.0	RT					1								185				314.2	
SALINE	GI 40	GI 35	28+33	12.0	LT					1								22			20.1	20.1	
SALINE	GI 35	GI 34	28+30	12.0	RT					1							297				215.6	215.6	
SALINE	GI 39	GI 34	25+30	12.0	LT					1								22			15.9	15.9	
SALINE	GI 34	GI 33	25+30	12.0	RT					1							130				81.6	81.6	
SALINE	GI 33	GI 32	23+95	12.0	RT					1							162				106.2	106.2	
SALINE	GI 38	GI 32	22+30	12.0	LT					1								22			18.2	18.2	
SALINE	GI 32	GI 31	22+30	12.0	RT					1							273				255.6		
SALINE	GI 31	FES 30	19+55	12.0	RT					1							18				17.8		
SALINE	FES 30		19+46	28.9	RT										1						2.5		
SALINE	GI 75	GI 71	44+65	12.0	RT					1								33			41.7		
SALINE	EX CI	MH 74	45+30	49.7	RT														8		3.5		
SALINE	MH 74	GI 73	45+42	25.0	RT							1					25				40.2		
SALINE	GI 73	GI 72	45+66	12.0	RT					1							22				35		
SALINE	S-D	GI 72	45+20	17.7	LT				33											31	14.1		
SALINE	GI 72	GI 71	45+66	12.0	LT					1							75				120.1		
SALINE	GI 71	FES 70	44+89	12.0	LT					1							25				34.6		
SALINE	FES 70		44+91	37.7	LT						16.7				1						2.5		
SALINE	GI 90	GI 89	50+75	12.0	RT					1								99			95.6		
SALINE	GI 100	GI 89	51+75	12.0	LT					1								22			29.4		
SALINE	GI 89	GI 88	51+75	12.0	RT					1								131			178.1		
SALINE	GI 99	GI 88	53+05	12.0	LT					1								22			28.7		
SALINE	GI 88	GI 87	53+05	12.0	RT					1								75			89.6		
SALINE	GI 98	GI 87	53+80	12.0	LT					1								22			27.1		
SALINE	YD 102	YD 101	53+26	40.9	LT	1														21	8.6		
SALINE	YD 101	GI 98	53+49	45.7	LT	1														44	18.9		
SALINE	GI 87	GI 86	53+80	12.0	RT					1								78			101.8		
SALINE	GI 97	GI 86	54+58	12.0	LT					1								22			7.8		
SALINE	GI 86	GI 85	54+58	12.0	RT					1								154			172.4		
SALINE	FES 96	CI 95	55+52	52.6	RT									1				30			15.1		
SALINE	CI 95	CI 94	55+65	24.0	RT		1											29			40.6		
SALINE	CI 94	GI 85	55+97	27.9	RT		1											21			39.7		
SALINE		GI 93	55+86	17.8	LT				17											21	6.7		
SALINE	GI 93	GI 85	56+14	12.0	LT					1								22			27.9		
SALINE	GI 85	GI 84	56+14	12.0	RT					1								109			131.3		
SALINE	GI 92	GI 84	57+25	12.0	LT					1								22			26.1		
SALINE	GI 84	GI 83	57+25	12.0	RT					1							43				63		
SALINE	GI 83	GI 82	57+70	12.0	RT					1							48				68.7		
SALINE	CI 91	GI 82	58+44	15.3	RT		1											23			23.4		
SALINE	GI 82	GI 81	58+19	12.0	RT					1							24				38.9		
SALINE	GI 81	FES 80	58+19	13.9	LT					1							24				38.6		
SALINE	FES 80		58+09	36.8	LT						16.7				1						2.5		
SALINE	OSTERHAGEN PARCEL		56+93	49.0	LT				40											14	5.0		QUANTITY BY JEFFERSON CO.
TOTALS =						2	6	1	90	52	92.3	2	5	3	3	16	530	636	2668	232	144	3623.4	1542.8	

GRANULAR BACKFILL IS CONSIDERED INCIDENTAL TO ALL PIPE, STRUCTURE, AND PAY ITEMS SHOWN ON THIS SHEET AND NO DIRECT PAYMENT WILL BE MADE.

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017169
PROFESSIONAL ENGINEER
12/02/14

JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017169

The professional whose personal seal and/or signature appears on this sheet assumes responsibility only for work appearing on this sheet and attached. Pursuant to Section 327.411 RSMo, no responsibility for any other drawings, any unauthorized alterations, or any errors, omissions, contradictions, ambiguities, reports or other documents or instruments not sealed by the undersigned professional relating to or intended to be used for any part or parts of the project to which this sheet refers.

DRAWN BY: EBS JOB DATE: 02/2012 - 12/2014
APPROVED: JSD JOB NUMBER: 75110022
CAD DATE: 12/1/2014 4:23:17 PM
CAD FILE: \\hrgwdfs004\Data\75110022\CAD\Data_qty_03.dgn

NO.	DATE	BY	REVISION DESCRIPTION

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CORPORATE LICENSE #2002006608

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP*5589-12

QUANTITIES
(Sheet 3 of 6)

SHEET NO.
QTY-03

TCP SIGNAGE BY STAGE

SIGN NUMBER (TCP PLANS)	SIGN NUMBER (MUTCD)	SIZE	SIGN AREA (S.F.)	PHASES 1A	1B	2A	2B	2C	3A	3B	3C	TOTAL NUMBER REQUIRED FOR PROJECT (ASSUME RE-USE)	616-10.05 CONSTRUCTION SIGNS (S.F.)	REMARKS
1	W020-1	36 X 36	9.00	6	7	10	4	10	9	9	5	10	90	ROAD WORK AHEAD
2	W5-1	36 X 36	9.00	1	1	1		1	1	1		1	9	ROAD NARROWS
3	W8-9	36 X 36	9.00	3	2	2	1	2	2	2		3	27	SHOULDER DROP-OFF
4	R1-1	30 X 30	6.25	4	5	6	2	8	6	5	2	8	50	STOP
5	R6-1L	36 X 12	3.00	2	2	4	1	4	1	1		4	12	ONE WAY-LEFT
6	R6-1R	36 X 12	3.00	3	2	3		3	5	5	1	5	15	ONE WAY-RIGHT
7	R11-2	48 X 30	10.00	1	2	2		2	1	1		2	20	ROAD CLOSED
8	W20-3	36 X 36	9.00	1	1	1	1	1	1	1	1	1	9	ROAD CLOSED AHEAD
9	G20-5aP	24 X 18	3.00	3	3	2	2	2	4	4	1	4	12	WORK ZONE
9	R2-1	24 X 30	5.00	3	3	2	2	2	4	4	1	4	20	SPEED LIMIT 25
10	G20-2	36 X 18	4.50	2	2	1	1	1	1	1	1	2	9	END ROAD WORK
11	SP-1	60 X 30	12.50	2	2							2	25	SALINE ROAD CLOSED TO THRU SOUTHBOUND TRAFFIC AT LAKEVIEW RIDGE DRIVE
12	SP-2	60 X 30	12.50			2	2	2				2	25	SOUTHBOUND SALINE ROAD CLOSED AT STONE BLUFF DRIVE FOLLOW DETOUR
13	SP-3	60 X 30	12.50						2	2	2	2	25	SOUTHBOUND SALINE ROAD CLOSED AT SILVER MAPLE DRIVE FOLLOW DETOUR
14	M4-9	30 X 24	5.00	4	4	4	4	4	3	3	3	4	20	DETOUR STRAIGHT
15	M4-9	30 X 24	5.00	1	1	1	1	1	1	1	1	1	5	DETOUR TURN RIGHT
16	M4-9	30 X 24	5.00	1	1	2	2	2	1	1	1	2	10	DETOUR RIGHT
17	M4-9	30 X 24	5.00	1	1	1	1	1	2	2	2	2	10	DETOUR TURN LEFT
18	M4-9	30 X 24	5.00	3	3	4	4	4	3	3	3	4	20	DETOUR LEFT
19	M-04-8a	30 X 24	5.00	1	1	1	1	1	1	1	1	1	5	END DETOUR
20	R11-3a	60 X 30	12.50	1	1							1	13	ROAD CLOSED 0.8 MILES AHEAD LOCAL TRAFFIC ONLY
21	R11-3a	60 X 30	12.50	1	1	1	1	1				1	13	ROAD CLOSED 0.5 MILES AHEAD LOCAL TRAFFIC ONLY
22	R11-3a	60 X 30	12.50			1	1	1	1	1	1	1	13	ROAD CLOSED 0.3 MILES AHEAD LOCAL TRAFFIC ONLY
23	R1-2	30 X 30X 30	3.90			2	1	1				2	8	YIELD
23	R1-2aP	36 X 30	7.50			2	1	1				2	15	TO ONCOMING TRAFFIC
24	R5-1	30 X 30	6.25	3	3	5	1	3	4	4		5	31	DO NOT ENTER
24	R5-1a	36 X 24	6.00	3	3	5	1	3	4	4		5	30	WRONG WAY
25	W1-4R	48 X 48	16.00			1				1	1	1	16	REVERSE CURVE RIGHT
26	W1-4L	48 X 48	16.00		1	1				1		1	16	REVERSE CURVE LEFT
27	R3-2	24 X 24	4.00	2	2	3	1	3	5	4	1	5	20	NO LEFT TURN
28	R3-1	24 X 24	4.00	2	3	2	1	4			1	4	16	NO RIGHT TURN
29	W4-4bP	36 X 18	4.50		1	1		1	1	1		1	5	ONCOMING TRAFFIC DOES NOT STOP
TOTALS =													612	

TEMPORARY PAVEMENT/DRAINAGE/PAVEMENT MARKING

TCP PHASE	SHEET	STATION	STATION	ROUTE	TEMPORARY PAVEMENT AREA (SF)	405-10.10** TEMPORARY PAVEMENT (SY)	620-60.00B 4 IN. WHITE ACRYLIC WATERBORNE PAVEMENT MARKING PAINT (LF)	620-60.01B 4 IN. YELLOW ACRYLIC WATERBORNE PAVEMENT MARKING PAINT (LF)	620-61.24 ACRYLIC WATERBORNE PAVEMENT MARKING PAINT, 24 IN., WHITE (LF)	726-11.15** TEMPORARY 15" CORRUGATED METAL PIPE (LF)
1A	TCP-03	12+35	20+00	SALINE			775	775		
1A	TCP-03	14+38	17+19	SALINE	473	53				
1A	TCP-04	20+00	31+00	SALINE			1110	1110		
1A	TCP-04	21+61	21+91	SALINE						30
1A	TCP-04	21+00	23+18	SALINE	221	25				
1A	TCP-04	22+38	22+59	SALINE						21
1A	TCP-04 & 05	24+94	32+34	SALINE	3284	365				
1A	TCP-04	25+67	25+88	SALINE						21
1A	TCP-04	26+43	26+69	SALINE						25
1A	TCP-04	26+73	26+98	SALINE						25
1A	TCP-04	30+28	30+39	SALINE						13
1A	TCP-05	31+00	32+93	SALINE			203	203		
1B	TCP-06	11+00	13+17	SALINE			511			
1B	TCP-08	31+50	32+23	SALINE	460	51				
2A	TCP-10	31+00	36+50	SALINE			600	550		
2A	TCP-10	31+50	36+36	SALINE	784	87				
2A	TCP-11	36+50	44+77	SALINE			840	840		
2A	TCP-11	41+31	43+85	SALINE	758	84				
2B	TCP-12	40+76	40+86	SALINE					12	
2B	TCP-12	40+74	40+88	SALINE	231	26				
2C	TCP-13	30+95	36+50	SALINE			565	565		
2C	TCP-14	36+50	43+85	SALINE			745	745		
2C	TCP-14	42+99	43+65	SALINE	321	36				
3A	TCP-16	42+99	52+50	SALINE			961	961		
3A	TCP-16	52+50	59+69	SALINE			729	729		
3A	TCP-16 & 17	43+00	58+65	SALINE	4679	520				
				TOTAL		1246	7039	6478	12	135

TRAFFIC CONTROL ITEMS

PHASE	SHEET	616-10.28 CHANNELIZER (SEE NOTE) (EA)	616-10.31 TYPE III MOVEABLE BARRICADE WITH LIGHT (EA)	616-10.98 CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED (EA)	617-36.00D TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED (LF)	REMARKS
PHASE 1A	TCP03-TCP05	95	4	3	392	PHASE SPECIFIC
PHASE 1B	TCP06-TCP08	122	4	3	0	PHASE SPECIFIC
PHASE 2A	TCP10-TCP11	89	13	4	126	PHASE SPECIFIC
PHASE 2B	TCP12	20	9	4	0	PHASE SPECIFIC
PHASE 2C	TCP13-TCP14	123	8	4	0	PHASE SPECIFIC
PHASE 3A	TCP16-TCP17	187	6	4	0	PHASE SPECIFIC
PHASE 3B	TCP18-TCP19	149	6	4	0	PHASE SPECIFIC
PHASE 3C	TCP20	21	6	4	0	PHASE SPECIFIC
DISCRETIONARY		20				
MAX OVERALL		207	13	4	392	GENERAL TRAFFIC CONTROL

NOTE: CHANNELIZER AMOUNT IS ESTIMATED AND TO BE USED AT THE DISCRETION OF THE ENGINEER ON SITE FOR SPECIFIC TRAFFIC CONTROL SITUATIONS AS NEEDED

HANDRAIL

SHEET	STATION	STATION	STREET	SIDE	712-35.00 RAILING FOR STEPS (L.F.)	REMARKS
WAL-02	15+59	15+59	SALINE	RT	8	MBW5
WAL-02	15+63	15+64	SALINE	RT	8	MBW6
DET-01	56+93	56+93	SALINE	LT	14	OSTERHAGEN **
				TOTAL =	30	

** QUANTITIES CALCULATED AND PROVIDED BY JEFFERSON COUNTY

RETAINING WALL SYSTEMS

SHEET	STATION	STATION	STREET	SIDE	720-10.00 MECHANICALLY STABILIZED EARTH WALL SYSTEMS (S.F.)*	720-99.04 MECHANICALLY STABILIZED EARTH WALL SYSTEMS - LARGE BLOCK (S.F.)	608.70.00 CONCRETE STEPS (S.F.)	REMARKS
WAL-01	52+00	53+99	SALINE	RT	601			MBW1
WAL-01	54+32	54+54	SALINE	RT	136			MBW2
WAL-02	15+05	15+57	SALINE	RT	220			MBW3
WAL-02	15+64	16+31	SALINE	RT	245		150.0	MBW4
WAL-02	15+59	15+58	SALINE	RT	76			MBW5
WAL-02	15+63	15+64	SALINE	RT	76			MBW6
WAL-03	53+33	53+29	SALINE	LT	129			MBW7
DET-01	56+93	56+93	SALINE	LT		2112		MLB8 **
DET-01	56+93	56+93	SALINE	LT		122	40	MLB9 **
DET-01	56+93	56+93	SALINE	LT		48		MLB10 **
				TOTAL =	1483	2282	190.0	

*WALL QUANTITY IS MEASURED FROM FOUNDATION TO TOP OF WALL
** QUANTITIES CALCULATED AND PROVIDED BY JEFFERSON COUNTY

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017759
PROFESSIONAL ENGINEER
2/02/14
JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017759
The professional whose personal seal and/or signature appears on this sheet assumes responsibility only for work appearing on this sheet and attached. Pursuant to Section 327.411 RSMo we accept no responsibility for any other work product, plans, specifications, plats, surveys, analyses, recommendations, opinions, reports or other documents or instruments not sealed by the undersigned professional relating to or intended to be used for any part or parts of the project to which this sheet refers.

DRAWN BY: EBS JOB DATE: 02/2012 - 12/2014
APPROVED: JSD JOB NUMBER: 75110022
CAD DATE: 12/1/2014 4:23:27 PM
CAD FILE: \\hrgwdfs004\Data\75110022\CAD\Data_qty_04.dgn

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
16020 SWINGLEY RIDGE ROAD, SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

QUANTITIES
(Sheet 4 of 6)

SHEET NO.
QTY-04
5 of 99

ROADSIDE DEVELOPMENT

SHEET	STATION	STATION	SIDE	805-10.00A SEEDING-COOL SEASON MIXTURES (ACRE)	804-10.00 TOPSOIL (4" THICK) (CY)	REMARKS
PNP-01	12+64	14+50	LT	0.060	32.1	
PNP-01	13+17	13+82	RT	0.026	14.1	
PNP-01	14+04	14+37	RT	0.006	3.3	
PNP-02	14+50	14+83	RT	0.006	3.0	
PNP-02	14+92	15+59	RT	0.029	15.5	
PNP-02	15+62	20+00	RT	0.129	69.3	
PNP-02	14+50	19+20	LT	0.128	68.7	
PNP-02	19+50	20+00	LT	0.012	6.5	
PNP-03	20+00	20+94	RT	0.025	13.6	
PNP-03	21+08	21+68	RT	0.015	8.3	
PNP-03	21+82	22+41	RT	0.020	10.5	
PNP-03	22+56	23+52	RT	0.027	14.3	
PNP-03	23+70	24+74	RT	0.027	14.3	
PNP-03	24+88	25+50	RT	0.013	6.9	
PNP-03	20+00	23+38	LT	0.040	21.6	
PNP-03	23+53	25+50	LT	0.041	22.2	
PNP-04	25+50	25+69	RT	0.002	1.0	
PNP-04	25+87	26+49	RT	0.011	5.9	
PNP-04	26+61	26+77	RT	0.003	1.6	* DOES NOT ACCOUNT FOR SEED IN ROCK BENCH AREA
PNP-04	26+93	27+89	RT	0.018	9.9	
PNP-04	27+97 *	31+00	RT	0.059	31.7	
PNP-04	25+50	26+31	LT	0.013	6.9	
PNP-04	26+44	27+71	LT	0.029	15.5	
PNP-04	27+82	31+00	LT	0.047	25.2	
PNP-05	31+00	32+27	RT	0.070	37.7	
PNP-05	31+31	36+00	RT	0.127	68.1	
PNP-05	31+00	36+00	LT	0.055	29.7	
PNP-06	36+00	36+29	LT	0.007	3.7	
PNP-06	36+23	36+50	LT	0.001	0.6	
PNP-06	36+53	36+79	LT	0.001	0.6	
PNP-06	36+00	40+57	RT	0.135	72.8	
PNP-06	40+53	40+68	RT	0.000	0.1	
PNP-06	40+87	40+97	RT	0.001	0.4	
PNP-06	40+94	41+50	RT	0.021	11.3	
PNP-06	36+45	40+75	LT	0.082	44.3	
PNP-06	39+60	40+75	LT	0.049	26.2	
PNP-06	40+89	41+50	LT	0.039	20.8	
PNP-07	41+50	44+97	RT	0.058	31.1	
PNP-07	45+32	47+00	RT	0.039	21.2	
PNP-07	41+50	42+07	LT	0.017	9.3	
PNP-07	42+23	42+75	LT	0.019	10.4	
PNP-07	42+92	43+50	LT	0.009	4.8	
PNP-07	43+78	44+63	LT	0.022	11.6	
PNP-07	44+45	44+60	LT	0.002	1.0	
PNP-07	44+74	45+00	LT	0.013	8.6	
PNP-07	45+37	45+93	LT	0.000	4.9	
PNP-07	46+09	46+42	LT	0.008	4.5	
PNP-07	46+55	47+00	LT	0.012	6.4	
PNP-08	47+00	47+91	RT	0.018	9.5	
PNP-08	48+29	48+94	RT	0.010	5.2	
PNP-08	49+20	49+52	RT	0.002	1.3	
PNP-08	49+62	51+00	RT	0.020	10.9	
PNP-08	51+13	52+50	RT	0.015	8.2	
PNP-08	47+00	48+04	LT	0.016	8.8	
PNP-08	48+15	48+87	LT	0.020	11.0	
PNP-08	49+05	49+86	LT	0.018	9.4	
PNP-08	49+94	50+95	LT	0.025	13.7	
PNP-08	51+18	51+43	LT	0.005	2.4	
PNP-08	51+65	51+85	LT	0.003	1.5	
PNP-08	51+98	52+50	LT	0.008	4.2	
PNP-09	52+50	53+14	RT	0.008	4.5	
PNP-09	53+09	55+71	RT	0.059	31.9	
PNP-09	55+43	55+53	RT	0.001	0.6	
PNP-09	55+64	57+47	RT	0.035	18.7	
PNP-09	57+53	57+84	RT	0.007	3.7	
PNP-09	57+95	58+00	RT	0.001	0.3	
PNP-09	52+50	53+33	LT	0.012	6.6	
PNP-09	53+47	53+67	LT	0.002	1.3	
PNP-09	53+67	55+26	LT	0.053	28.4	
PNP-09	55+50	55+80	LT	0.005	2.9	
PNP-09	55+91	56+82	LT	0.024	12.8	
PNP-09	57+01	58+00	LT	0.025	13.5	
PNP-10	58+00	58+88	RT	0.018	9.7	
PNP-10	59+18	59+37	RT	0.002	1.1	
PNP-10	58+00	58+35	LT	0.017	9.3	
PNP-10	58+62	59+35	LT	0.010	5.6	
			TOTAL =	2.01	1089.3	

EROSION CONTROL

SHEET	STATION	STATION	SIDE	806-10.19 SILT FENCE (L.F.)	806-10.25 INLET CHECK (EACH)	806-41.24 TYPE 5 EROSION CONTROL BLANKET (S.Y.)
ERO-01	11+71	12+74	RT	110		
ERO-01	12+98	13+73	RT	78		
ERO-01	13+25	N/A	LT		1	
ERO-01	13+25	N/A	RT		1	
ERO-01	14+07	14+34	RT	57		
ERO-01	14+51	14+79	RT	64		
ERO-01	16+44	20+00	RT	365		
ERO-01	17+80	N/A	LT		1	
ERO-01	19+15	N/A	LT		1	
ERO-01	19+17	N/A	LT		1	
ERO-01	19+17	N/A	RT		1	
ERO-01	19+54	N/A	LT		1	
ERO-01	19+55	N/A	RT		1	
ERO-01	19+68	20+00	LT	32		
ERO-02	20+00	20+41	RT	41		
ERO-02	20+00	22+19	LT	219		
ERO-02	22+30	N/A	RT		1	
ERO-02	22+30	N/A	LT		1	
ERO-02	23+95	N/A	RT		1	
ERO-02	24+70	25+27	LT			60
ERO-02	25+29	25+50	LT	22		
ERO-02	25+30	N/A	LT		1	
ERO-02	25+30	N/A	RT		1	
ERO-02	25+50	26+26	LT	102		
ERO-02	26+71	27+70	LT	104		
ERO-02	27+64	27+82	RT	58		
ERO-02	27+86	31+00	LT	323		
ERO-02	28+30	N/A	LT		1	
ERO-02	28+33	N/A	RT		1	
ERO-02	30+15	N/A	LT		1	
ERO-02	30+15	N/A	RT		1	
ERO-03	31+00	N/A	RT		1	
ERO-03	31+00	36+22	LT	520		
ERO-03	31+09	32+02	LT			51
ERO-03	31+31	38+38	RT			878
ERO-03	31+55	N/A	RT		1	
ERO-03	32+06	N/A	LT		1	
ERO-03	32+07	N/A	RT		1	
ERO-03	32+11	N/A	RT		1	
ERO-03	32+65	N/A	RT		1	
ERO-03	33+73	N/A	LT		1	
ERO-03	33+73	N/A	RT		1	
ERO-03	34+44	36+17	LT			84
ERO-03	35+60	N/A	RT		1	
ERO-03	36+24	36+59	LT	36		
ERO-03	36+67	40+08	LT	376		
ERO-03	36+85	N/A	LT		1	
ERO-03	36+85	N/A	RT		1	
ERO-03	38+07	N/A	RT		1	
ERO-03	38+80	N/A	RT		1	
ERO-03	38+90	39+30	LT			23
ERO-03	39+24	N/A	LT		1	
ERO-03	39+24	N/A	RT		1	
ERO-04	40+07	40+72	LT	102		
ERO-04	40+10	N/A	RT		1	
ERO-04	41+50	N/A	LT		1	
ERO-04	41+50	N/A	RT		1	
ERO-04	42+24	42+72	LT	96		
ERO-04	42+94	43+49	LT	90		
ERO-04	43+79	44+56	LT	82		
ERO-04	44+41	44+65	RT			19
ERO-04	44+65	N/A	RT		1	
ERO-04	44+77	45+00	LT	31		
ERO-04	44+89	N/A	LT		1	
ERO-04	45+66	N/A	LT		1	
ERO-04	45+66	N/A	RT		1	
ERO-04	45+79	46+14	RT			29
ERO-04	46+10	46+41	LT	42		
ERO-04	46+56	48+01	LT	165		
ERO-04	48+16	48+86	LT	74		
ERO-04	49+05	49+85	LT	93		
ERO-04	49+95	50+94	LT	98		
ERO-04	50+75	N/A	RT		1	
ERO-05	51+75	N/A	LT		1	
ERO-05	51+75	N/A	RT		1	
ERO-05	52+00	53+31	LT	129		
ERO-05	53+05	N/A	LT		1	
ERO-05	53+05	N/A	RT		1	
ERO-05	53+73	55+24	LT	153		
ERO-05	53+80	N/A	LT		1	
ERO-05	53+80	N/A	RT		1	
ERO-05	54+58	N/A	LT		1	
ERO-05	54+58	N/A	RT		1	
ERO-05	55+50	55+78	LT	47		
ERO-05	55+65	N/A	RT		1	
ERO-05	55+95	56+81	LT	101		
ERO-05	55+97	N/A	RT		1	
ERO-05	56+14	N/A	LT		1	
ERO-05	56+14	N/A	RT		1	
ERO-05	57+02	58+33	LT	164		
ERO-05	57+25	N/A	LT		1	
ERO-05	57+25	N/A	RT		1	
ERO-05	57+70	N/A	RT		1	
ERO-05	58+19	N/A	LT		1	
ERO-05	58+19	N/A	RT		1	
ERO-05	58+44	N/A	RT		1	
ERO-05	58+64	59+34	LT	86		
			TOTALS =	4060	58	1142

SAW CUT (INFORMATION ONLY)

SHEET	STATION	STATION	LOCATION	SIDE	SAWCUT (ANY DEPTH / MATERIAL) (L.F.)	REMARKS
PNP-01	13+17	N/A	SALINE	TRANSVERSE	38.8	EDGE OF EXIST. PVMT.
PNP-02	19+16	19+51	SALINE	LT	35.7	DRIVEWAY
PNP-03	22+42	22+57	SALINE	RT	14.6	DRIVEWAY
PNP-04	25+69	25+88	SALINE	RT	17.6	DRIVEWAY
PNP-04	27+83	27+97	SALINE	RT	17.4	DRIVEWAY
PNP-06	36+12	36+24	SALINE	LT	20.1	SIDE ROAD
PNP-06	36+79	36+79	SALINE	LT	11.5	DRIVEWAY ON SIDE ROAD
PNP-06	40+29	40+53	SALINE	RT	22.0	SIDE ROAD
PNP-06	40+74	40+89	SALINE	LT	22.0	SIDE ROAD
PNP-07	42+03	42+24	SALINE	LT	21.4	DRIVEWAY
PNP-07	42+76	42+93	SALINE	LT	17.6	DRIVEWAY
PNP-07	45+01	45+13	SALINE	LT	13.1	DRIVEWAY
PNP-07	45+16	46+10	SALINE	LT	99.6	PARKING LOT
PNP-08	47+92	48+30	SALINE	RT	38.1	DRIVEWAY
PNP-08	48+05	48+15	SALINE	LT	10.0	DRIVEWAY
PNP-08	48+94	49+20	SALINE	RT	26.2	DRIVEWAY
PNP-08	49+52	49+63	SALINE	RT	10.6	DRIVEWAY
PNP-08	49+86	49+96	SALINE	LT	10.0	DRIVEWAY
PNP-09	53+28	53+47	SALINE	LT	16.9	DRIVEWAY
PNP-09	55+43	55+44	SALINE	RT	16.7	DRIVEWAY ON SIDE ROAD
PNP-09	55+53	55+65	SALINE	RT	13.4	SIDE ROAD
PNP-09	55+81	55+92	SALINE	LT	11.3	DRIVEWAY
PNP-09	56+83	57+02	SALINE	LT	18.9	DRIVEWAY
PNP-09	57+43	57+54	SALINE	RT	13.0	DRIVEWAY
PNP-09	57+77	57+96	SALINE	RT	21.7	DRIVEWAY
PNP-10	58+34	58+63	SALINE	LT	28.8	DRIVEWAY
PNP-10	59+35	59+37	SALINE	TRANSVERSE	26.6	EDGE OF EXIST. PVMT.

FENCING

SHEET	STATION	STATION	STREET	SIDE	607-10.10A 42" CHAIN LINK FENCE (L.F.)	607-10.10B 6' WOOD FENCE (L.F.)	607-10.10C 4' VINYL FENCE (L.F.)	607-10.50 CHAIN LINK FENCE ON RETAINING WALL (L.F.) **	607-10.30 WALK GATE, CHAIN LINK (EA) **
PNP-04	28+32	30+95	SALINE	RT	276				
PNP-05 & 06	33+89	38+88	SALINE	RT		495			
PNP-07	42+95	43+49	SALINE	LT			61		
PNP-07	43+79	43+90	SALINE	LT			11		
DET-01	56+93	56+93	SALINE	LT				82	1
				FENCE SUBTOTALS =	276	495	72	82	1

** QUANTITIES CALCULATED AND PROVIDED BY JEFFERSON COUNTY

GUARDRAIL

SHEET	STATION	STATION	STREET	SIDE	606-10.10 GUARD RAIL TYPE A (L.F.)	606-30.15 TYPE A CRASHWORTHY END TERMINAL (EA)	606-66.10 END ANCHOR (EA)
PNP-04, 05, 06	30+30	36+25	SALINE	LT	572	1	1
				TOTALS =	572	1	1

STATE OF MISSOURI
JASON E. DOHRMANN
NUMBER
PE-2004017759
PROFESSIONAL ENGINEER
12/02/14

JASON E. DOHRMANN
CIVIL ENGINEER
PE-2004017759

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DRAWN BY: EBS JOB DATE: 02/2012 - 12/2014
APPROVED: JSD JOB NUMBER: 75110022
CAD DATE: 12/1/2014 4:23:37 PM
CAD FILE: \\hrgwdfs004\Data\75110022\CAD\Data_qty_05.dgn

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
16020 SWINGLEY RIDGE ROAD, SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006008

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

QUANTITIES

(Sheet 5 of 6)

SHEET NO.
QTY-05

PERMANENT SIGNS

SHEET	STATION	OFFSET	MUTCD	SIZE	903-50.10** PERMANENT SIGNING (S.F.)	REMARKS
STR-01	14+60	RT	R2-1	24X30	5.00	30 MPH SPEED LIMIT SIGN
STR-01	16+80	LT	W3-1a	30X30	6.25	STOP AHEAD
STR-02	26+20	18', LT	R1-1	30X30	6.25	STOP
STR-02	26+20	18', LT	SIGN BLADE	24X6 (TWO EA)	2.00	SALINE/APPALOOSA
STR-02	28+20	18', RT	R1-1	30X30	6.25	STOP
STR-02	28+20	18', RT	SIGN BLADE	24X6 (TWO EA)	2.00	SALINE/VIEW
STR-02	28+90	RT	W1-1L	30X30	6.25	LEFT TURN
STR-02	28+90	RT	W13-1	18X18	2.25	15 MPH SPEED PLAQUE
STR-02	30+50	RT	W1-1aL	36X36	9.00	COMBINATION LEFT TURN/ADVISORY SPEED 15
STR-02	30+80	RT	W1-8	18X24 (TWO EA)	6.00	CHEVRON ALIGNMENT
STR-03	31+20	RT	S3-1	36X36	9.00	SCHOOL BUS STOP AHEAD
STR-03	31+20	RT	W1-8	18X24 (TWO EA)	6.00	CHEVRON ALIGNMENT
STR-03	31+60	RT	W1-8	18X24 (TWO EA)	6.00	CHEVRON ALIGNMENT
STR-03	32+00	RT	W1-8	18X24 (TWO EA)	6.00	CHEVRON ALIGNMENT
STR-03	32+50	24', RT	R1-1	30X30	6.25	STOP
STR-03	32+50	24', RT	SIGN BLADE	24X6 (TWO EA)	2.00	SALINE/LAKEVIEW RIDGE
STR-03	33+00	RT	W1-8	18X24 (TWO EA)	6.00	CHEVRON ALIGNMENT
STR-03	33+40	RT	W1-8	18X24 (TWO EA)	6.00	CHEVRON ALIGNMENT
STR-03	33+70	LT	W1-1aR	36X36	9.00	COMBINATION RIGHTTURN/ADVISORY SPEED 15
STR-03	35+50	LT	W1-1R	30X30	6.25	RIGHT TURN
STR-03	35+50	LT	W13-1	18X18	2.25	15 MPH SPEED PLAQUE
STR-03	36+20	23', LT	R1-1	30X30	6.25	STOP
STR-03	36+20	23', LT	SIGN BLADE	24X6 (TWO EA)	2.00	SALINE/HORIZON
STR-03	36+60	34.5', LT	W14-2	30X30	6.25	NO OUTLET
STR-03	36+60	34.5', LT	R12-1	24X30	5.00	WEIGHT LIMIT
STR-03	37+20	RT	S3-1	36X36	9.00	SCHOOL BUS STOP AHEAD
STR-03	37+80	RT	W1-1R	30X30	6.25	RIGHT TURN
STR-03	37+80	RT	W13-1	18X18	2.25	20 MPH SPEED PLAQUE
STR-03	39+20	RT	W1-1aR	36X36	9.00	COMBINATION RIGHT TURN/ADVISORY SPEED 20
STR-03	39+20	LT	W1-8	18X24 (TWO EA)	6.00	CHEVRON ALIGNMENT
STR-03	39+60	LT	W1-8	18X24 (TWO EA)	6.00	CHEVRON ALIGNMENT
STR-03	40+00	LT	W1-8	18X24 (TWO EA)	6.00	CHEVRON ALIGNMENT
STR-04	40+40	RT	W14-2	30X30	6.25	NO OUTLET
STR-04	40+40	RT	R12-1	24X30	5.00	WEIGHT LIMIT
STR-04	40+40	LT	W1-8	18X24 (TWO EA)	6.00	CHEVRON ALIGNMENT
STR-04	40+70	26', LT	R1-1	30X30	6.25	STOP
STR-04	40+70	26', LT	SIGN BLADE	24X6 (TWO EA)	2.00	SALINE/BRINY
STR-04	41+00	28', RT	R1-1	30X30	6.25	STOP
STR-04	41+00	28', RT	SIGN BLADE	24X6 (TWO EA)	2.00	SALINE/FIELDCREST
STR-04	41+20	LT	W1-8	18X24 (TWO EA)	6.00	CHEVRON ALIGNMENT
STR-04	41+60	LT	W1-1aL	36X36	9.00	COMBINATION TURN/ADVISORY SPEED 20
STR-04	41+60	LT	W1-8	18X24 (TWO EA)	6.00	CHEVRON ALIGNMENT
STR-04	42+00	22', LT	R1-1	30X30	6.25	STOP
STR-04	42+00	22', LT	SIGN BLADE	24X6 (TWO EA)	2.00	SALINE/PINE RIDGE
STR-04	42+60	21', LT	R1-1	30X30	6.25	STOP
STR-04	42+60	21', LT	SIGN BLADE	24X6 (TWO EA)	2.00	SALINE/OAK
STR-04	43+40	LT	W1-1L	30X30	6.25	LEFT TURN
STR-04	43+40	LT	W13-1	18X18	2.25	20 MPH SPEED PLAQUE
STR-04	45+45	20', RT	R1-1	30X30	6.25	STOP
STR-04	45+45	20', RT	SIGN BLADE	24X6 (TWO EA)	2.00	SALINE/PLANET
STR-04	48+41	21', RT	R1-1	30X30	6.25	STOP
STR-04	48+41	21', RT	SIGN BLADE	24X6 (TWO EA)	2.00	SALINE/STONE BLUFF
STR-04	49+90	RT	W1-2L	30X30	6.25	CURVE LEFT
STR-04	49+90	RT	W13-1	18X18	2.25	25 MPH SPEED PLAQUE
STR-05	56+00	21', RT	R1-1	30X30	6.25	STOP
STR-05	56+00	21', RT	SIGN BLADE	24X6 (TWO EA)	2.00	SALINE/KOHNEN
STR-05	56+50	LT	W1-2R	30X30	6.25	CURVE RIGHT
STR-05	56+50	LT	W13-1	18X18	2.25	25 MPH SPEED PLAQUE
STR-05	57+60	LT	R2-1	24X30	5.00	30 MPH SPEED LIMIT SIGN
STR-05	58+20	19', LT	R1-1	30X30	6.25	STOP
STR-05	58+20	19', LT	SIGN BLADE	24X6 (TWO EA)	2.00	SALINE/NOLAN
STR-05	59+30	22', RT	R1-1	30X30	6.25	STOP
STR-05	59+30	22', RT	SIGN BLADE	24X6 (TWO EA)	2.00	SALINE/SILVER MAPLE
TOTALS =					323	

PAVEMENT MARKING

SHEET	STATION	STATION	LOCATION	620-60.01B 4 IN. YELLOW ACRYLIC WATERBORNE PAVEMENT MARKING PAINT (LF)	620-60.00B 4 IN. WHITE ACRYLIC WATERBORNE PAVEMENT MARKING PAINT (LF)
STR-01	13+16	14+50	SALINE	266	266
STR-01	14+50	20+00	SALINE	1100	1021
STR-02	20+00	25+50	SALINE	1100	1100
STR-02	25+50	31+00	SALINE	1100	965
STR-03	31+00	36+50	SALINE	1100	1005
STR-03	36+50	40+00	SALINE	700	670
STR-04	40+00	45+50	SALINE	1100	822
STR-04	45+50	51+00	SALINE	1100	1100
STR-05	51+00	56+00	SALINE	1000	962
STR-05	56+00	59+36	SALINE	672	581
			TOTAL=	9238	8492

ADJUSTMENTS

SHEET	STATION	OFFSET	LOCATION	603-10.30* ADJUST WATER SERVICE VALVE AND BOX TO GRADE (EACH)	603-10.31** ADJUST WATER METER (EACH)	603-10.99* ADJUST GAS SERVICE VALVE TO GRADE (EACH)	604-20.00** REMOVE AND REPLACE HYDRANT (EACH)	604-20.11** MISCELLANEOUS (PULLBOXES, OTHER) (EACH)	REMARKS
PNP-01	13+61	26.8	RT		1				
PNP-01	13+63	26.3	RT		1				
PNP-02	15+25	20.9	LT			1			
PNP-02	19+54	11.9	LT						
PNP-02	19+61	26.7	LT			1			
PNP-03	24+86	2.0	LT	1					
PNP-03	25+44	17.3	RT					1	SEPTIC
PNP-04	27+14	11.3	LT	1					
PNP-04	27+93	37.9	RT	1					
PNP-04	29+07	17.4	LT		1				
PNP-05	32+14	7.0	LT	1					
PNP-05	32+22	8.4	LT	1					
PNP-05	34+19	20.2	LT					1	PULLBOX
PNP-06	36+31	39.8	LT				1		
PNP-06	36+33	39.8	LT	1					
PNP-06	36+40	10.7	LT	1					
PNP-06	36+47	77.3	LT		1				
PNP-06	40+67	39.0	RT					1	SANITARY
PNP-07	41+98	15.0	LT	1					
PNP-07	41+99	10.6	LT	1					
PNP-07	42+59	23.1	LT					1	PULLBOX
PNP-07	42+90	14.8	LT	1					
PNP-07	43+04	9.7	LT	1					
PNP-07	43+97	22.1	LT		1				
PNP-07	44+38	23.7	RT		1				
PNP-07	46+56	22.7	LT		1				
PNP-08	46+14	19.2	RT			1			
PNP-08	48+49	6.9	RT	1					
PNP-08	48+71	13.7	RT			1			
PNP-08	49+27	24.0	RT					1	PULLBOX
PNP-08	49+65	18.8	RT		1				
PNP-08	50+22	22.7	LT		1				
PNP-08	51+24	17.4	LT		1				
PNP-09	53+53	11.5	LT	1					
PNP-09	54+67	12.3	LT		1				
PNP-09	55+20	10.2	LT	1					
PNP-09	55+20	14.3	LT				1		
PNP-09	55+73	6.6	LT	1					
PNP-09	55+76	9.7	LT	1					
PNP-09	56+11	7.0	LT	1					
PNP-09	56+53	19.9	LT		1				
PNP-10	58+20	21.1	RT		1				
PNP-10	59+25	6.4	LT	1					
TOTAL =				18	13	4	2	5	

CONCRETE CURBS (ALL TYPES)

SHEET	STATION	STATION	STREET	SIDE	609-10.10 CONCRETE CURB TYPE S (LF)	609-10.52 CURB AND GUTTER TYPE B (LF)	609-20.12 INTEGRAL CURB TYPE B (LF)	609-20.13 INTEGRAL CURB TYPE M (MODIFIED) (LF)	609-20.32 CONCRETE CURB LOW PROFILE TYPE F (LF)	609-30.15 ASPHALT CURB (4 INCH) (LF)
PNP-01	BOP	14+50	SALINE	LT		133				
PNP-01	BOP	14+50	SALINE	RT		84				
PNP-02	14+50	20+00	SALINE	LT		565				
PNP-02	14+50	20+00	SALINE	RT		527				
PNP-03	20+00	25+50	SALINE	LT		533				
PNP-03	20+00	25+50	SALINE	RT		440				
PNP-04	25+50	31+00	SALINE	LT		545				
PNP-04	25+50	31+00	SALINE	RT		490				
PNP-05	31+00	36+00	SALINE	LT		482				
PNP-05	31+00	36+00	SALINE	RT		743				
PNP-06	36+00	41+50	SALINE	LT		602				
PNP-06	36+00	41+50	SALINE	RT		533				
PNP-06	36+30	36+49	SALINE	LT				20		
PNP-06	36+52	36+79	SALINE	LT				27		
PNP-06	40+19	40+46	SALINE	LT						75
PNP-07	41+50	47+00	SALINE	LT		475				
PNP-07	41+50	47+00	SALINE	RT		464				
PNP-08	47+00	52+50	SALINE	LT		405				
PNP-08	47+00	52+50	SALINE	RT		393				
PNP-08	51+07	51+42	SALINE	LT					47	
PNP-08	51+18	51+43	SALINE	LT					29	
PNP-09	52+50	58+00	SALINE	LT		426				
PNP-09	52+50	58+00	SALINE	RT		505				
PNP-09	53+46	53+56	SALINE	LT	22					
PNP-09	53+67	53+72	SALINE	LT	38					
PNP-10	58+00	EOP	SALINE	LT		154				
PNP-10	58+00	EOP	SALINE	RT		122				
PNP-10	58+00	EOP	SALINE	RT		90	32			
TOTALS =					61	8710	32	47	76	75

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017759
PROFESSIONAL ENGINEER
12/02/14

JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017759

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NO.	DATE	BY	REVISION DESCRIPTION

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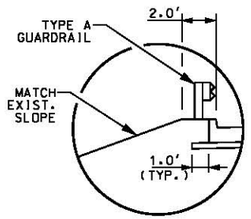
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

QUANTITIES

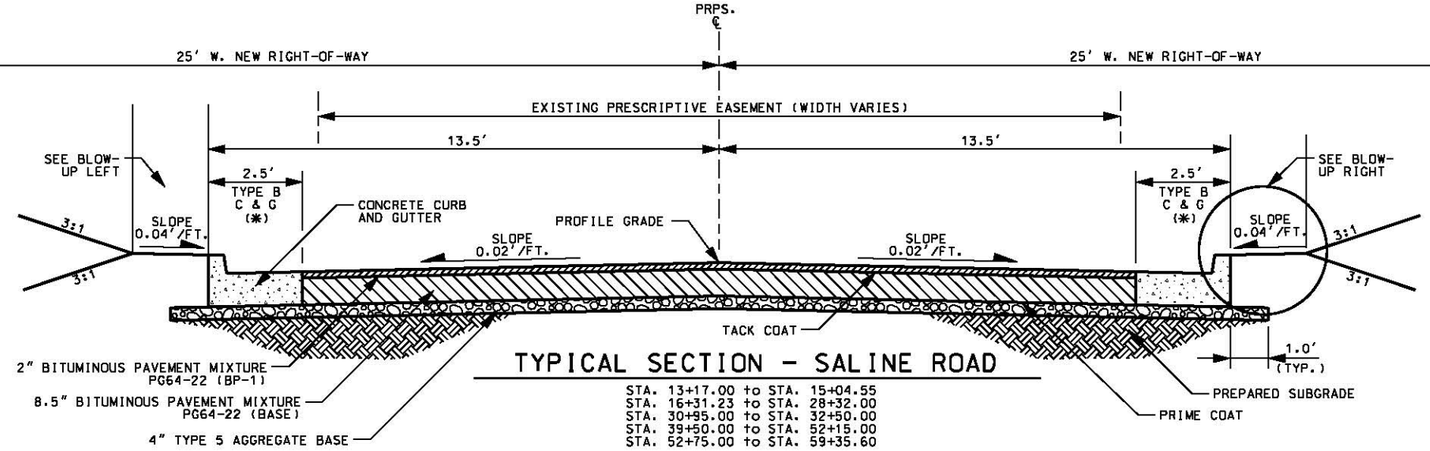
(Sheet 6 of 6)

SHEET NO.
QTY-06
7 of 99



GUARDRIAL SECTION

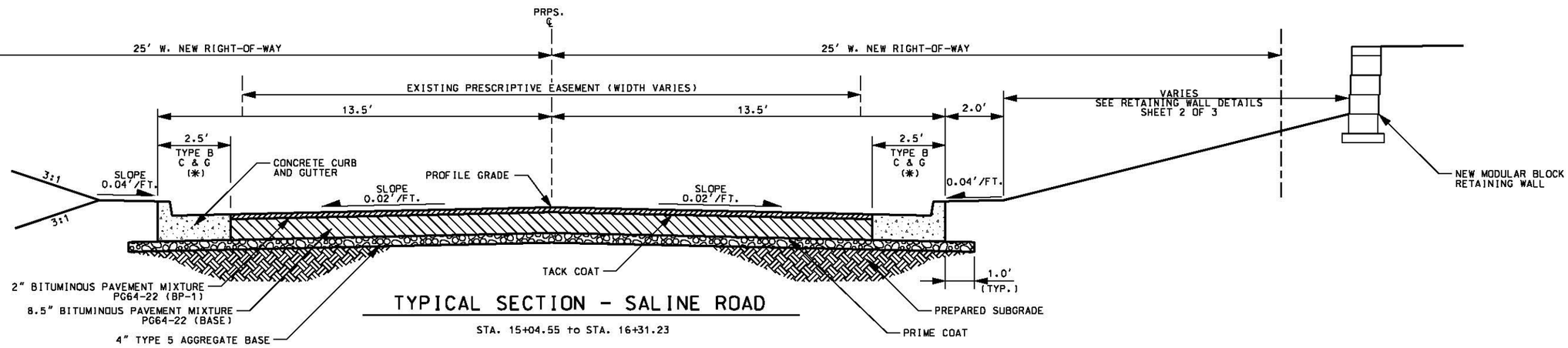
STA. 30+30.00 to STA. 36+25.00



TYPICAL SECTION - SALINE ROAD

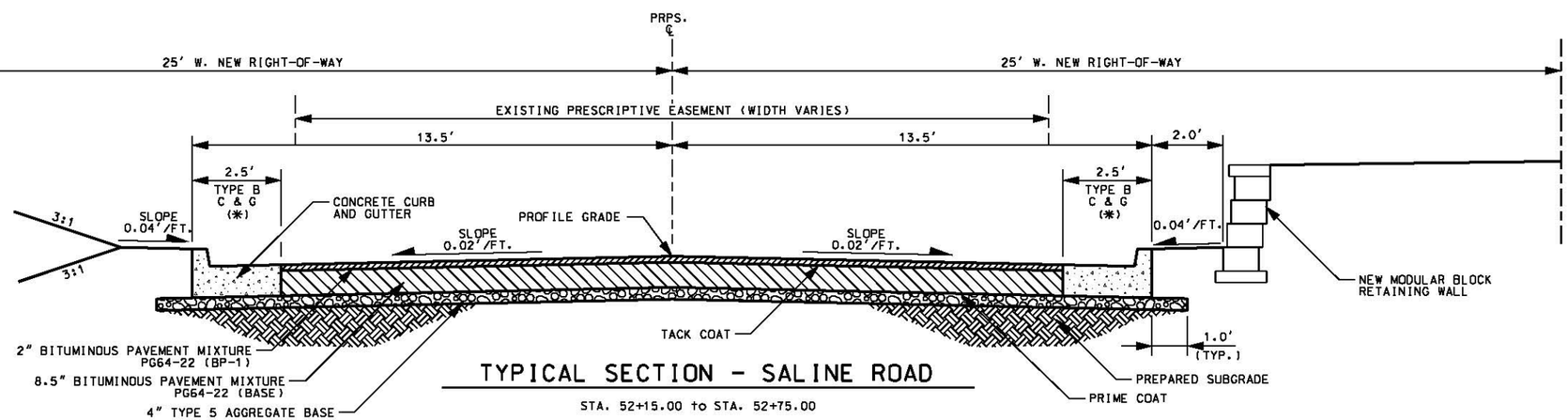
STA. 13+17.00 to STA. 15+04.55
STA. 16+31.23 to STA. 28+32.00
STA. 30+95.00 to STA. 32+50.00
STA. 39+50.00 to STA. 52+15.00
STA. 52+75.00 to STA. 59+35.60

(*) CURB & GUTTER TAPERS TO 3-FT WIDE AT INLET LOCATIONS. SEE MODOT STANDARD DETAIL SHEET 731.10R, TYPE D, SHEET 4 OF 8



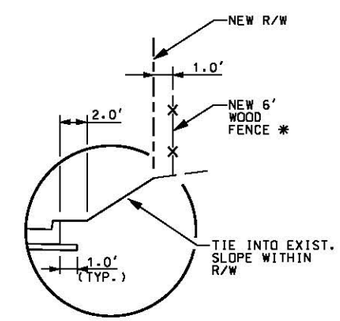
TYPICAL SECTION - SALINE ROAD

STA. 15+04.55 to STA. 16+31.23



TYPICAL SECTION - SALINE ROAD

STA. 52+15.00 to STA. 52+75.00



TRM SECTION

STA. 32+50.00 to STA. 39+50.00 (RT)
* STA. 33+89.00 to STA. 38+88.00 (RT)
STA. 38+50.00 to STA. 39+50.00 (LT)
* STA. 42+95.00 to STA. 43+90.00 (LT)

NOTE: TURF REINFORCEMENT MAT (TRM) USED IN CONJUNCTION WITH FENCE WHERE NEW SLOPES EXCEED 3:1

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017169
REGISTERED PROFESSIONAL ENGINEER
2/02/14
JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017169

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APPROVED: JSD	JOB NUMBER:	75110022	
CAD DATE: 12/3/2014	7:08:16 AM		
CAD FILE: \\hrgwdfs004\Data\75110022\CAD\Data_typ_01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

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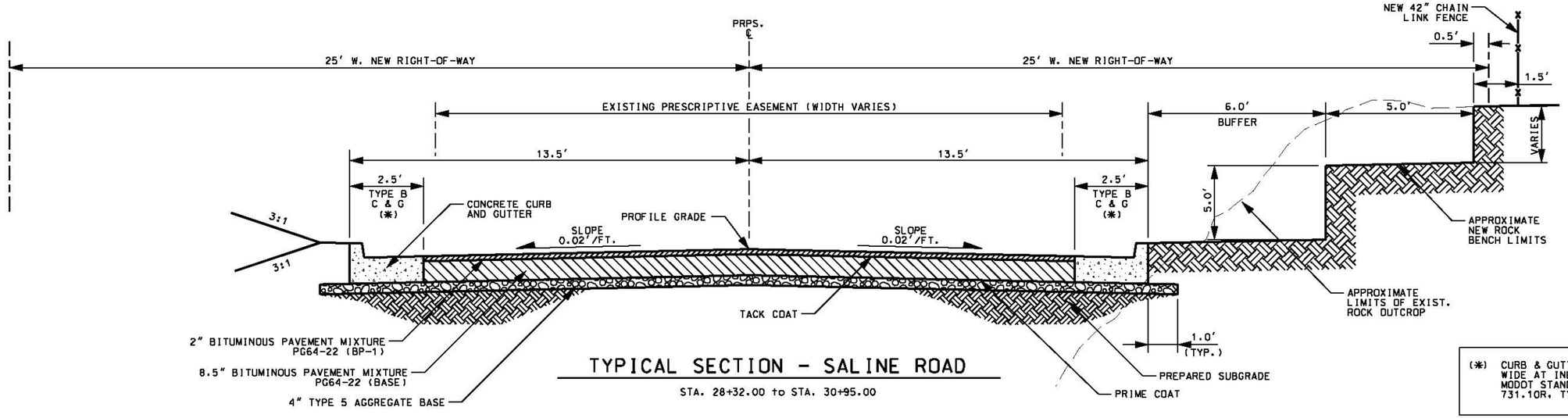
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

TYPICAL SECTIONS AND DETAILS

(Sheet 1 of 3)

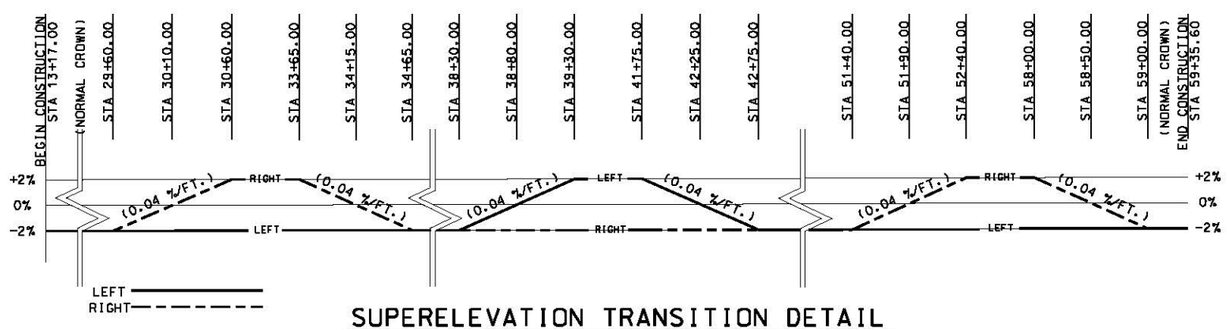
SHEET NO.
TYP-01
8 of 99



TYPICAL SECTION - SALINE ROAD

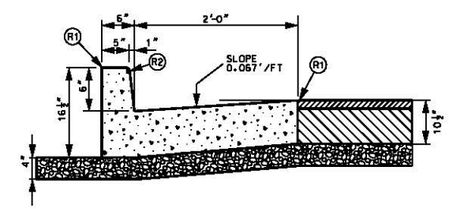
STA. 28+32.00 to STA. 30+95.00

(*) CURB & GUTTER TAPERS TO 3-FT WIDE AT INLET LOCATIONS. SEE MODOT STANDARD DETAIL SHEET 731.10R, TYPE D, SHEET 4 OF 8



SUPERELEVATION TRANSITION DETAIL

Not to Scale

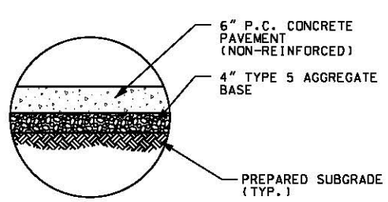


TYPE B (BARRIER) CURB & GUTTER (*)

LEGEND

(R1) ROUND TO ¼" RADIUS. (EXCEPT FOR SAWED JOINTS)

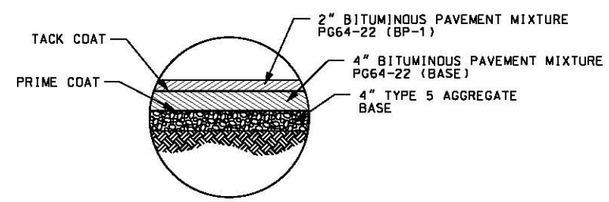
(R2) ROUND TO ¾" RADIUS.



CONCRETE DRIVEWAY EXTENSION

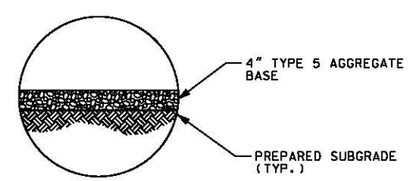
NOTES:

1. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING CONCRETE DRIVEWAYS TO THE NEAREST JOINT, AS SHOWN ON PLANS. IF JOINT IS DAMAGED DURING EXCAVATION OF THE EXISTING DRIVEWAY, A FULL DEPTH SAWCUT WILL BE REQUIRED AT THE NEAREST, SUITABLE LOCATION BEHIND THE DAMAGED JOINT, AT NO ADDITIONAL COST TO THE COUNTY.
2. EXTENSIONS SHOWN IN THE DETAILS ABOVE CORRESPOND TO THE PAVEMENT BEHIND THE APPROACH PAVEMENT LIMITS, AS SHOWN IN THE DRIVEWAY PROFILE DETAILS ON SHEET TYP-03.

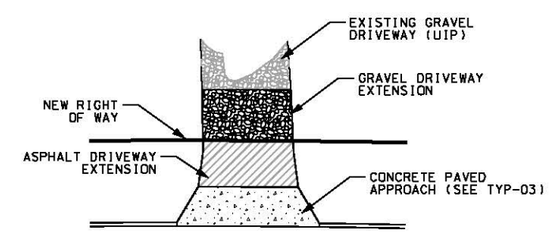


ASPHALT DRIVEWAY EXTENSION

NOTE: CONTRACTOR SHALL REMOVE AND REPLACE EXISTING ASPHALT DRIVEWAYS AS SHOWN ON PLANS. IF ANY PART OF THE EXISTING DRIVEWAY NOT TO BE REMOVED IS DAMAGED DURING EXCAVATION, A FULL DEPTH SAWCUT WILL BE REQUIRED AT THE NEAREST, SUITABLE LOCATION BEHIND THE DAMAGED SECTION, AT NO ADDITIONAL COST TO THE COUNTY.



CROSS SECTION



PLAN

GRAVEL DRIVEWAY EXTENSION

NOTES:

1. CONTRACTOR SHALL PLACE GRAVEL DRIVEWAYS AS SHOWN ON PLANS. IF ANY PART OF THE EXISTING GRAVEL DRIVE, OUTSIDE OF THE CONSTRUCTION LIMITS, IS DAMAGED DURING CONSTRUCTION, THE DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR, TO THE SATISFACTION OF THE ENGINEER, AT NO ADDITIONAL COST TO THE COUNTY.
2. ABOVE DETAIL TO BE USED FOR ALL GRAVEL DRIVEWAYS WITHIN THE PROJECT LIMITS, UNLESS OTHERWISE NOTED ON THE PLANS.

STATE OF MISSOURI — JASON S. DOHRMANN — NUMBER PE-2004017159 — REGISTERED PROFESSIONAL ENGINEER — 2/02/14

JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017159

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APPROVED: JSD	JOB NUMBER:	75110022	
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NO.	DATE	BY	REVISION DESCRIPTION

HRGreen

16020 SWINGLEY RIDGE ROAD, SUITE 205
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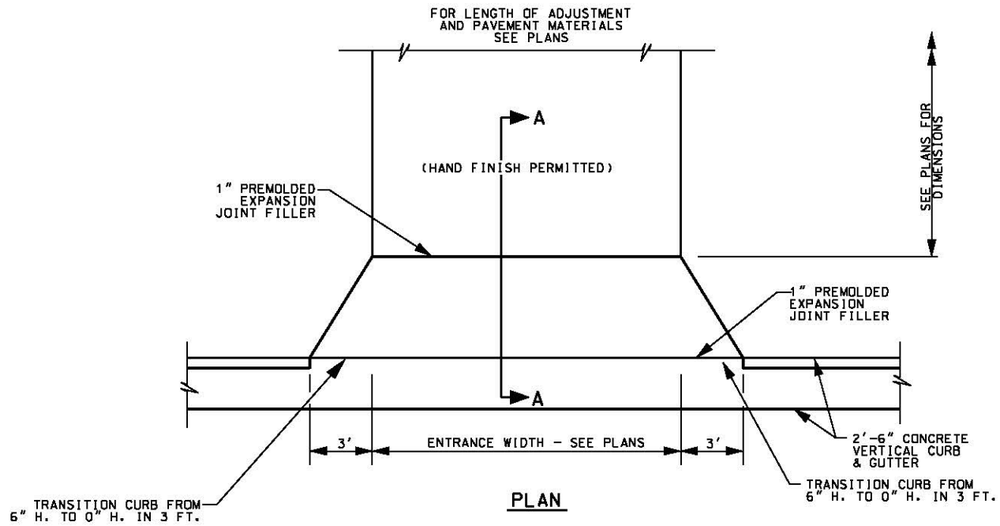
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006908

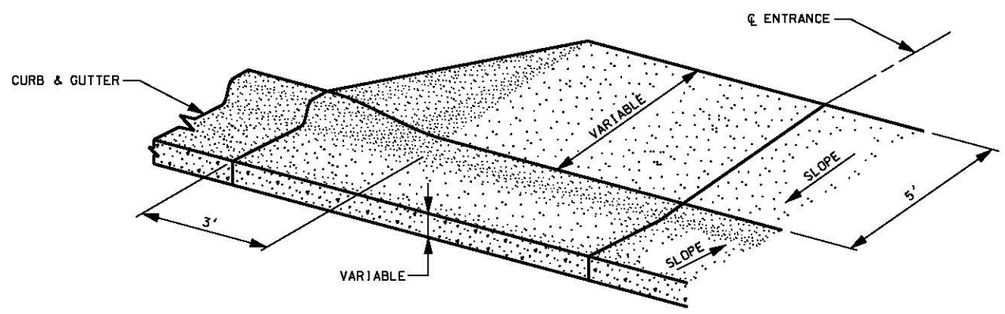
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

TYPICAL SECTIONS AND DETAILS
DRIVEWAY/ CURB/ SUPERELEVATION
(Sheet 2 of 3)

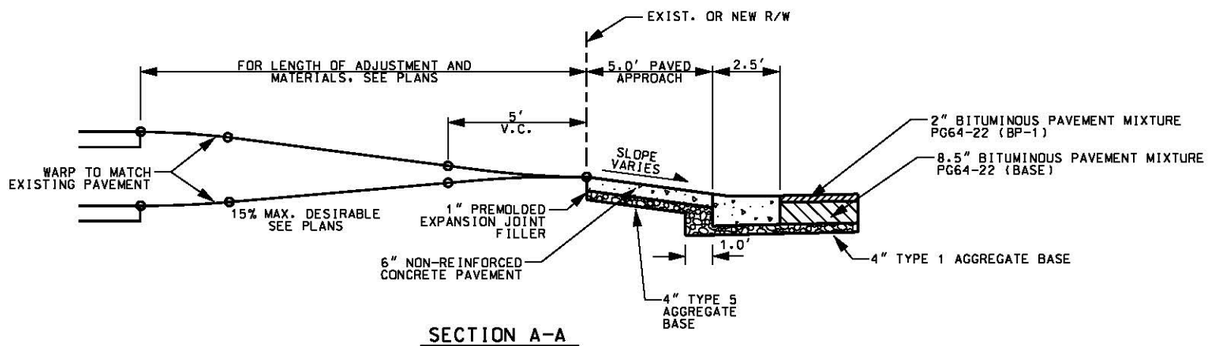
SHEET NO.
TYP-02
9 of 99



PLAN

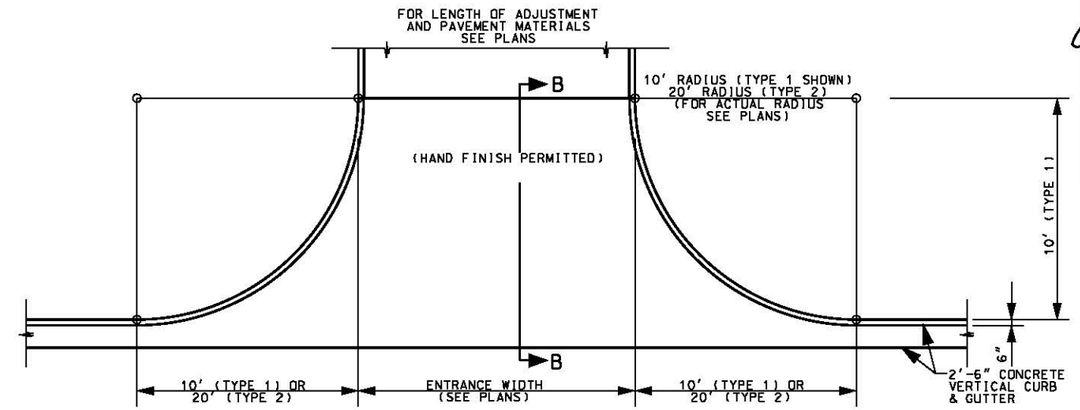


HALF PLAN PERSPECTIVE



SECTION A-A

RESIDENTIAL ENTRANCE WITH VERTICAL CURB



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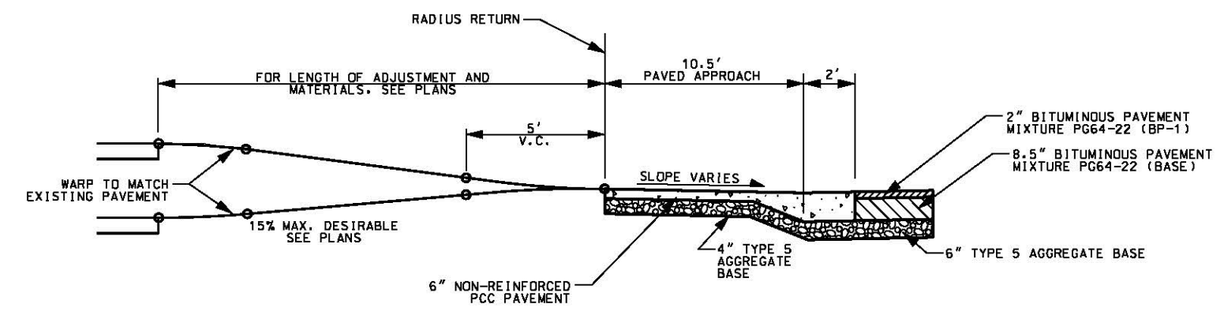

SECTION B-B

COMMERCIAL ENTRANCE WITH VERTICAL CURB

NOT TO SCALE

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017159
PROFESSIONAL ENGINEER
2/02/14

JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017159

The professional whose personal seal and/or signature appears on this sheet assumes responsibility only for work appearing on this sheet and attached thereunto by facsimile seal, signature, or initials. Responsibility for other drawings and unsealed/unsigned data, plans, surveys, reviews, specifications, estimates, reports or other documents or instruments not sealed by the undersigned professional relating to or intended to be used for any part or parts of the project to which this sheet relates.

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NO.	DATE	BY	REVISION DESCRIPTION

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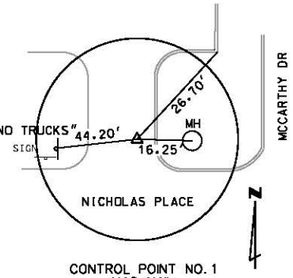
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

TYPICAL SECTIONS AND DETAILS
DRIVEWAY ENTRANCE DETAILS
(Sheet 3 of 3)

SHEET NO.
TYP-03



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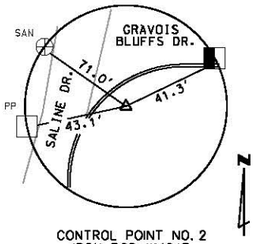

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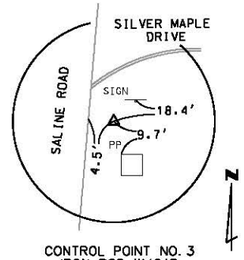

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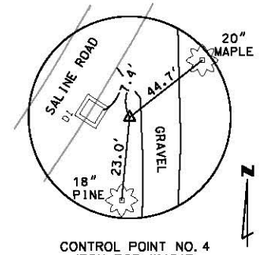

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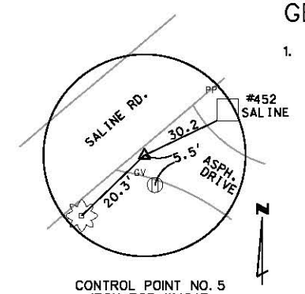

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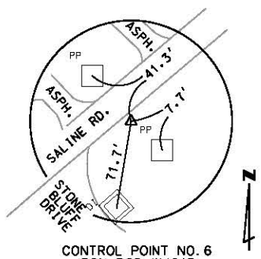

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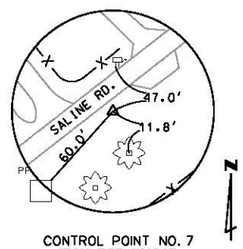

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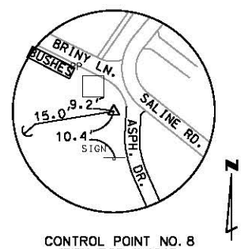

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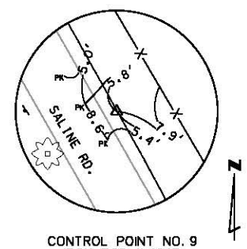

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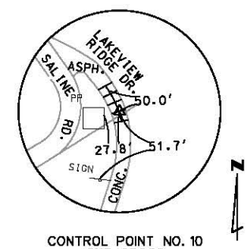

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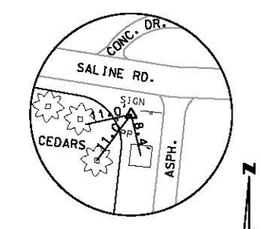

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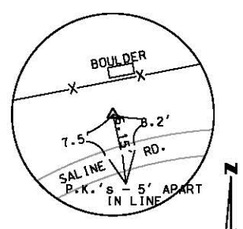

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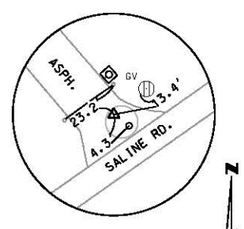

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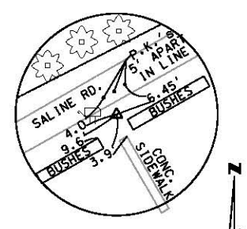

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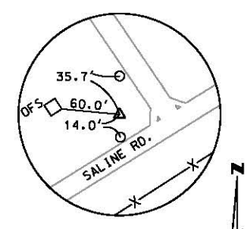

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GENERAL NOTES

1. THE UNDERGROUND UTILITIES SHOWN HEREON ARE TAKEN FROM UTILITY LOCATIONS AS MARKED IN THE FIELD BY DIGRITE, TICKET NUMBERS: *121450584 (05/24/2012), *121502008 (05/29/2012), *121502046 (05/29/2012)AND *121502097 (05/29/2012).

   AMEREN MISSOURI: MARKED BY UTILITY LOCATOR AS SHOWN HEREON. BASE MAPS NOT AVAILABLE.

   ATT DISTRIBUTION: MARKED BY UTILITY LOCATOR AS SHOWN HEREON. BASE MAPS NOT AVAILABLE.

   CHARTER COMMUNICATIONS: MARKED BY UTILITY LOCATOR AS SHOWN HEREON. BASE MAPS NOT AVAILABLE.

   CITY OF FENTON: NO RESPONSE FROM UTILITY LOCATOR. BASE MAPS NOT AVAILABLE.

   JEFFERSON COUNTY PWSD 3: FACILITIES MOSTLY MARKED IN THE FIELD AND ARE SHOWN HEREON. PORTIONS OF JEFFERSON COUNTY PWSD 3 FACILITIES ARE SHOWN FROM AVAILABLE BASE MAPS AND ARE SHOWN AS APPROXIMATE HEREON.

   LACLEDE GAS: FACILITIES PARTIALLY MARKED IN THE FIELD AND ARE SHOWN HEREON. REST OF LACLEDE GAS FACILITIES ARE SCALED FROM BASE MAPS AND ARE SHOWN AS APPROXIMATE HEREON.

   MISSOURI AMERICAN WATER CO.: NO RESPONSE BY UTILITY LOCATOR. SHOWN HEREON AS APPROXIMATE BY SCALING FROM BASE MAPS PROVIDED BY MISSOURI AMERICAN WATER.

   NORTHEAST PUBLIC SEWER DISTRICT: SHOWN HEREON BY CONNECTING ABOVE GROUND STRUCTURES AND BY SCALING FROM BASE MAPS PROVIDED BY NORTHEAST PUBLIC SEWER DISTRICT.

   PHILLIPS 66 PIPELINE: LOCATOR ADVISED TO CONNECT PIPELINE WARNING SIGNS AS THE ACTUAL FACILITIES SHOULD FALL IMMEDIATELY BELOW THESE SIGNS. SIGNS WERE LOCATED AND CONNECTED AS SHOWN HEREON.

   ST. LOUIS METROPOLITAN SEWER DISTRICT: ALL CLEAR PER FACSIMILE MESSAGE FROM MSD, ALTHOUGH BASE MAP SHOWS FORCE MAIN AT NORTH END OF PROJECT. SCALED AS SHOWN HEREON.

2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, AND SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION, OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319, RSMO.

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017169
PROFESSIONAL ENGINEER
12/02/14
JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017169
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ALIGNMENT INFORMATION

POINT NO	POINT	STATION	CIRCULAR CURVE DATA				COORDINATES	
			DELTA	RADIUS	TANGENT	LENGTH	N	E
100	POT	9+99.41					968,232.6514	832,349.1289
	PC	23+36.18					968,890.2809	833,512.9458
SALINE-1	PI	25+29.39	35° 41'56.13" RT.	600.00'	193.21'	373.84'	968,985.3317	833,681.1588
	PT	27+10.02					968,964.3654	833,873.2283
	CC						968,367.9085	833,808.1189
	PC	27+10.02					968,964.3654	833,873.2283
SALINE-2	PI	28+19.63	27° 22'45.63" LT.	450.00'	109.61'	215.04'	968,952.4707	833,982.1932
	PT	29+25.05					968,992.0193	834,084.4221
	CC						969,411.7080	833,922.0603
	PC	30+56.91					969,039.5933	834,207.3962
SALINE-3	PI	31+63.12	74° 22'19.29" LT.	140.00'	106.21'	181.73'	969,077.9150	834,306.4539
	PT	32+38.63					969,183.6341	834,296.2341
	CC						969,170.1632	834,156.8837
	PC	32+38.63					969,183.6341	834,296.2341
SALINE-4	PI	33+07.30	30° 22'04.46" LT.	253.00'	68.66'	134.10'	969,251.9780	834,289.6273
	PT	33+72.73					969,307.6049	834,249.3757
	CC						969,159.2902	834,044.4080
	PC	34+83.15					969,397.0617	834,184.6446
SALINE-5	PI	35+51.87	07° 51'43.85" RT.	1,000.00'	68.72'	137.22'	969,452.7338	834,144.3603
	PT	36+20.37					969,513.3931	834,112.0700
	CC						969,983.2859	834,994.7936
	PC	39+24.27					969,781.6511	833,969.2705
SALINE-6	PI	40+78.28	80° 47'14.91" RT.	181.00'	154.01'	255.21'	969,917.5985	833,896.9028
	PT	41+79.48					970,010.7975	834,019.5108
	CC						969,866.7017	834,129.0435
	PC	44+98.98					970,204.1419	834,273.8651
SALINE-7	PI	45+80.16	04° 38'57.21" LT.	2,000.00'	81.19'	162.29'	970,253.2736	834,338.5002
	PT	46+61.26					970,307.4826	834,398.9403
	CC						971,796.3602	833,063.5589
	PC	50+60.04					970,573.7436	834,695.8068
SALINE-8	PI	51+41.74	06° 14'06.52" LT.	1,500.00'	81.70'	163.24'	970,628.2929	834,756.6263
	PT	52+23.28					970,689.1251	834,811.1615
	CC						971,690.4018	833,694.2707
	PC	52+33.27					970,696.5673	834,817.8333
SALINE-9	PI	53+40.78	34° 09'00.33" LT.	350.00'	107.51'	208.61'	970,776.6165	834,889.5963
	PT	54+41.88					970,883.1479	834,904.0485
	CC						970,930.1985	834,557.2255
	PC	57+59.02					971,197.4030	834,946.6809
SALINE-10	PI	58+09.01	02° 51'48.98" LT.	2,000.00'	49.99'	99.96'	971,246.9390	834,953.4011
	PT	58+58.98					971,296.7489	834,957.6381
	CC						971,466.2637	832,964.8348
101	POT	62+44.78					971,681.1633	834,990.3377

SURVEY CONTROL NOTES

1. COORDINATE SYSTEM BASED ON THE MISSOURI STATE PLANE COORDINATE SYSTEM OF 1983, EAST ZONE.

2. HORIZONTAL CONTROL STATEMENT: STATE PLANE COORDINATES ON THIS PROJECT WERE ESTABLISHED UTILIZING THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION GLOBAL NAVIGATION SATELLITE REAL TIME NETWORK FOR CONTINUOUSLY OPERATING REFERENCE STATIONS DURING JUNE 2012, AND ARE BASED ON THE MISSOURI COORDINATE SYSTEM OF 1983, EAST ZONE. THE AVERAGE COMBINED PROJECT GRID FACTOR IS 0.999913626 AS CALCULATED BY TRIMBLE GEOMATICS OFFICE.

3. PROJECT COORDINATES ARE MODIFIED MISSOURI STATE PLANE COORDINATES AND WERE ESTABLISHED BY APPLYING THE INVERSE OF THE PROJECT GRID FACTOR (1.000086381).

4. ALL ELEVATIONS SHOWN HEREON ARE BASED ON NAVD-88 DATUM AND ESTABLISHED UTILIZING THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION GLOBALY NAVIGATION SATELLITE REAL TIME NETWORK FOR CONTINUOUS OPERATING STATIONS DURING MAY, 2012.

BENCHMARK INFORMATION

TBM "A" - ELEVATION 562.83

CUT "SQUARE" ON WEST SIDE OF LIGHT STANDARD BASE APPROXIMATELY 75 FEET EAST OF THE CENTERLINE-CENTERLINE OF MCCARTHY BLVD. AND MITCHELL DRIVE.

TBM "B" - ELEVATION 613.76

COTTON PICKER SPINDLE IN SOUTHWEST FACE OF UTILITY POLE *218421 APPROXIMATELY 30 FEET SOUTHEAST OF CENTERLINE OF SALINE ROAD AND 110 FEET NORTHEAST OF THE SOUTH ENTRANCE TO STONE BLUFF DRIVE.

TBM "C" - ELEVATION 457.20

COTTON PICKER SPINDLE IN SOUTH FACE OF UTILITY POLE *222439 APPROXIMATELY 40 FEET NORTH OF CENTERLINE OF SALINE ROAD AND 115 FEET EAST OF MATTHEW DRIVE.

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NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
16020 SWINGLEY RIDGE ROAD, SUITE 205
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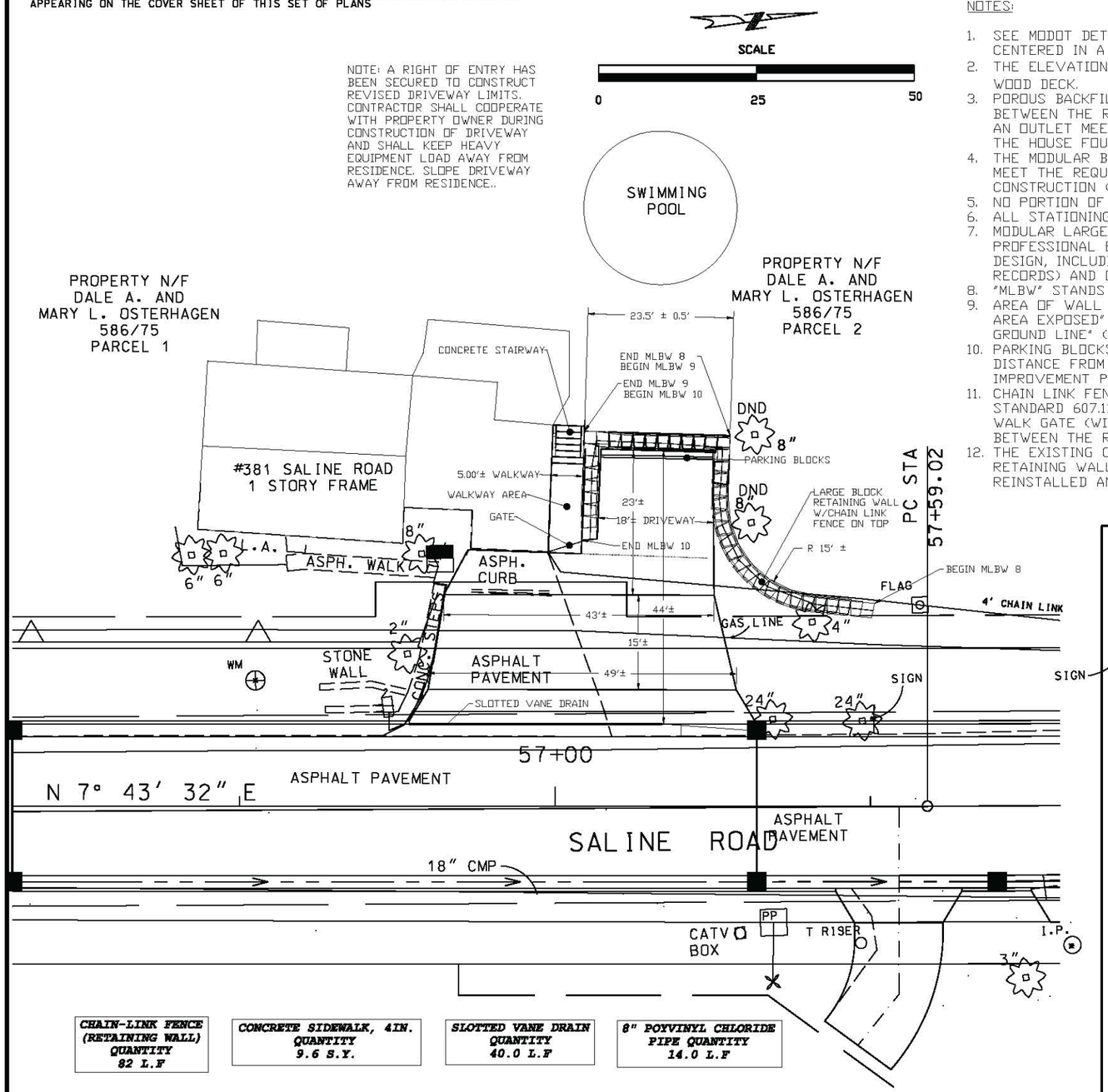
CORPORATE LICENSE #2002006908

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

BENCHMARKS / CONTROL POINTS
MAINLINE ALIGNMENT
(Sheet 1 of 1)

DETAILS ON THIS SHEET WERE DESIGNED AND APPROVED BY JEFFERSON COUNTY ENGINEERS AND ARE NOT COVERED BY THE SEAL OF THE PROFESSIONAL ENGINEER APPEARING ON THE COVER SHEET OF THIS SET OF PLANS

NOTE: A RIGHT OF ENTRY HAS BEEN SECURED TO CONSTRUCT REVISED DRIVEWAY LIMITS. CONTRACTOR SHALL COOPERATE WITH PROPERTY OWNER DURING CONSTRUCTION OF DRIVEWAY AND SHALL KEEP HEAVY EQUIPMENT LOAD AWAY FROM RESIDENCE. SLOPE DRIVEWAY AWAY FROM RESIDENCE..



NOTES:

1. SEE MODOT DETAIL 608.20D FOR CONCRETE STAIRS AND HANDRAIL. EACH HANDRAIL POST SHALL BE CENTERED IN A 6" WALL, INSTEAD OF A 4" WALL.
2. THE ELEVATION OF BOTTOM STEP OF CONCRETE STAIRS SHALL BE SET ½" OF ELEVATION OF ADJACENT WOOD DECK.
3. POROUS BACKFILL, IN ACCORDANCE WITH SEC 206.4.11, SHALL BE USED FOR ANY FILL MATERIAL REQUIRED BETWEEN THE RETAINING WALL AND THE HOUSE FOUNDATION. A PERFORATED DRAIN SHALL BE INSTALLED WITH AN OUTLET MEETING THE APPROVAL OF THE ENGINEER. SPECIAL CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE HOUSE FOUNDATION.
4. THE MODULAR BLOCK RETAINING WALL FOR THIS LOCATION SHALL BE "LARGE BLOCK WALL SYSTEM" AND SHALL MEET THE REQUIREMENTS OF THE CURRENT VERSION OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (MODOT).
5. NO PORTION OF THE MODULAR BLOCK RETAINING WALL SHALL OVERLAP THE EXISTING GAS MAIN LINE.
6. ALL STATIONING AND OFFSETS GIVEN FROM SALINE ROAD CENTERLINE TO WALL FACE UNLESS OTHERWISE NOTED.
7. MODULAR LARGE BLOCK RETAINING WALL TO BE DESIGNED PER MANUFACTURER'S DETAILS BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI. CONTRACTOR IS REQUIRED TO SUBMIT SEALED WALL DESIGN, INCLUDING ALL PLANS , DESIGN CALCS, SUBSURFACE INFORMATION (BORING LOGS OR OTHER FACTUAL RECORDS) AND OTHER PERTINENT INFORMATION TO THE ENGINEER OF RECORD FOR REVIEW.
8. "MLBW" STANDS FOR MODULAR LARGE BLOCK RETAINING WALL.
9. AREA OF WALL TO BE PAID FOR IS AREA OF "FACE AREA EXPOSED" AS SHOWN PER PLAN DETAILS. THE "FACE AREA EXPOSED" QUANTITY SHALL BE BASED ON THE AREA BETWEEN THE TOP OF THE WALL AND THE "EX. GROUND LINE" (PRECEDING OTHER FINAL IMPROVEMENTS).
10. PARKING BLOCKS, MEETING THE APPROVAL OF THE ENGINEER, SHALL BE INSTALLED AT AN APPROPRIATE OFFSET DISTANCE FROM MLBW9. THE COST OF THE PARKING BLOCKS SHALL BE INCLUDED IN THE COST OF THE DRIVEWAY IMPROVEMENT PAY ITEMS.
11. CHAIN LINK FENCE SHALL BE INSTALLED ON THE TOP OF THE PERIMETER OF THE RETAINING WALL PER STANDARD 607.11H, OR PER WALL MANUFACTURER DETAILS AND MEETING THE APPROVAL OF THE ENGINEER. A WALK GATE (WITH HINGES AND LATCHING HARDWARE) OF THE APPROPRIATE WIDTH SHALL BE INSTALLED BETWEEN THE RETAINING WALL FENCE AND THE WALL OF HOUSE.
12. THE EXISTING CHAIN LINK FENCE SHALL BE TEMPORARILY REMOVED AS NECESSARY TO CONSTRUCT THE RETAINING WALL. UPON COMPLETION OF THE RETAINING WALL, THE EXISTING CHAIN LINK FENCE SHALL BE REINSTALLED AND MODIFIED AS NECESSARY TO PROVIDE A POSITIVE ENCLOSURE.

STATE OF MISSOURI
BERNARD LEO ARNOLD
NUMBER PE-021797
PROFESSIONAL ENGINEER
12/02/14
BERNARD L. ARNOLD
CIVIL ENGINEER
PE-021797

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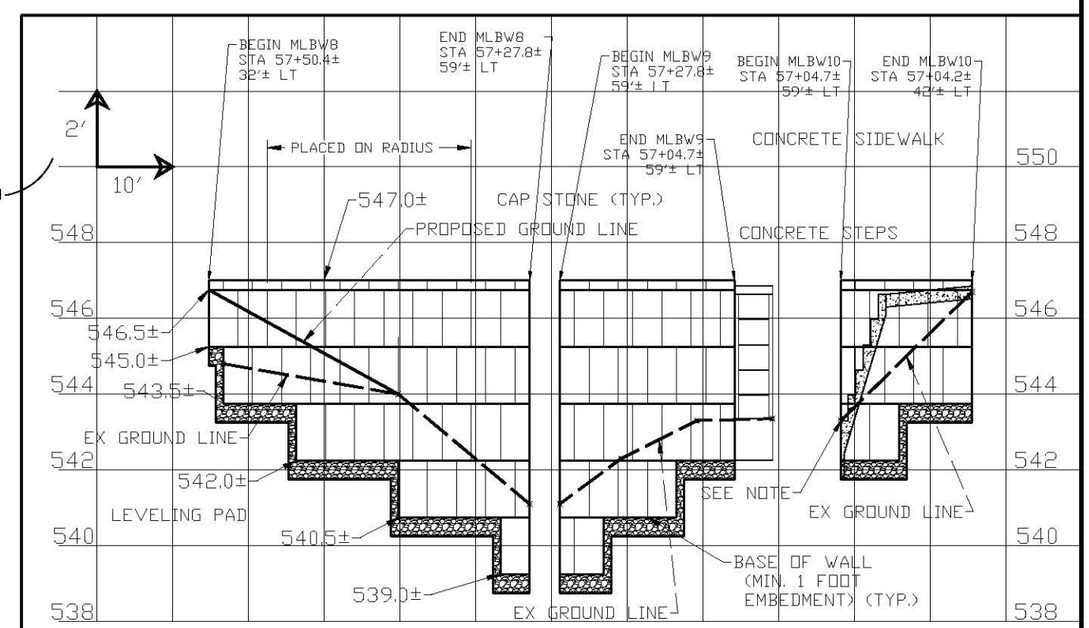

RETAINING WALL MLB8

MLBW8 QUANTITY
2112 S.F.

RETAINING WALL MLB9

MLBW9 QUANTITY
122 S.F.

RETAINING WALL MLB10

MLBW10 QUANTITY
48 S.F.

CHAIN-LINK FENCE (RETAINING WALL) QUANTITY 82 L.F	CONCRETE SIDEWALK, 4IN. QUANTITY 9.6 S.Y.	SLOTTED VANE DRAIN QUANTITY 40.0 L.F	8" POYVINYL CHLORIDE PIPE QUANTITY 14.0 L.F
WALK GATE (CHAIN LINK) QUANTITY 1.0 EA.	CONCRETE STEPS QUANTITY 40.0 S.F.	RAILING FOR STEPS QUANTITY 14.0 L.F.	CLASS 3 EXCAVATION QUANTITY 5.0 C.Y.	LINEAR GRADING QUANTITY 44.0 L.F.

DRAWN BY: JEFF. CO.	JOB DATE:	02/2012 - 12/2014	
APPROVED: JEFF. CO.	JOB NUMBER:	75110022	
CAD DATE: 12/2/2014	8:51:18 AM		
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PHONE: (636) 519.0990
CORPORATE LICENSE #20020006908

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

SPECIAL DETAIL SHEET
OSTERHAGEN PARCEL (PARCEL 2)
(Sheet 1 of 1)

SHEET NO.
DET-01
12 of 99

NOTES:
1. RESHAPE EXISTING DITCH TO LINES SHOWN, AND GRADE TO DRAIN. GRADING WORK SHALL BE CONSIDERED INCIDENTAL TO GRADING AND EARTHWORK OPERATIONS, AND NO ADDITIONAL PAY WILL BE MADE.

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017159
PROFESSIONAL ENGINEER
12/02/14
JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017159
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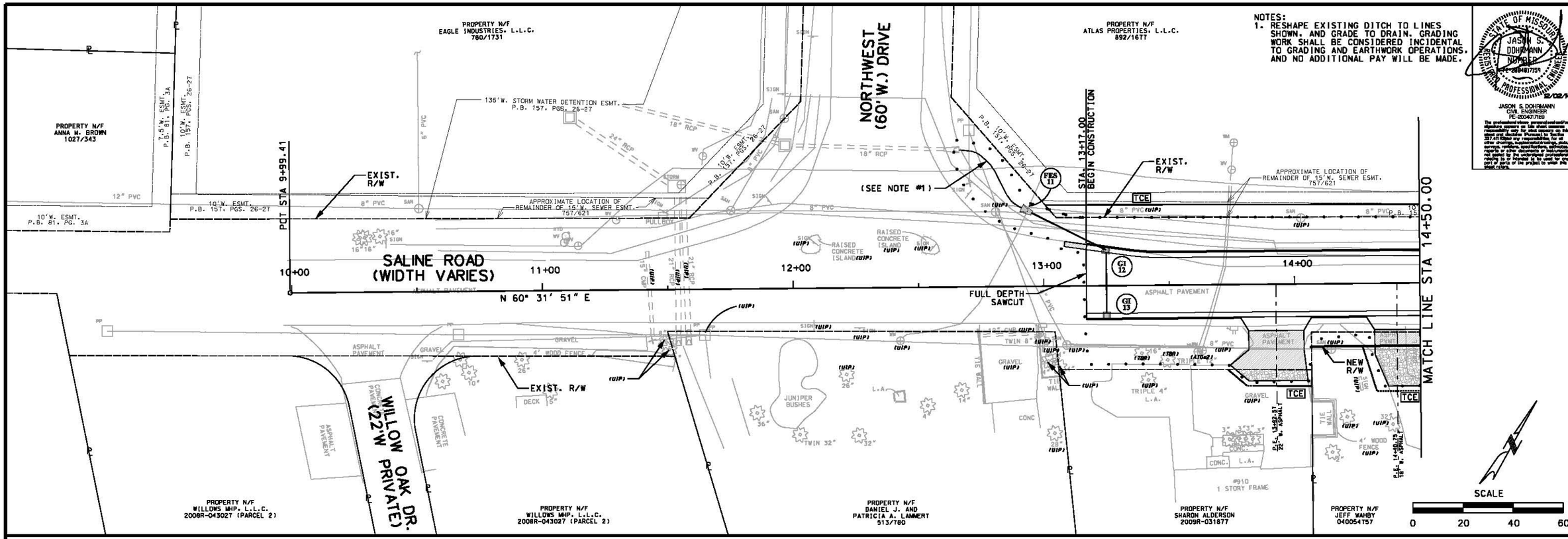

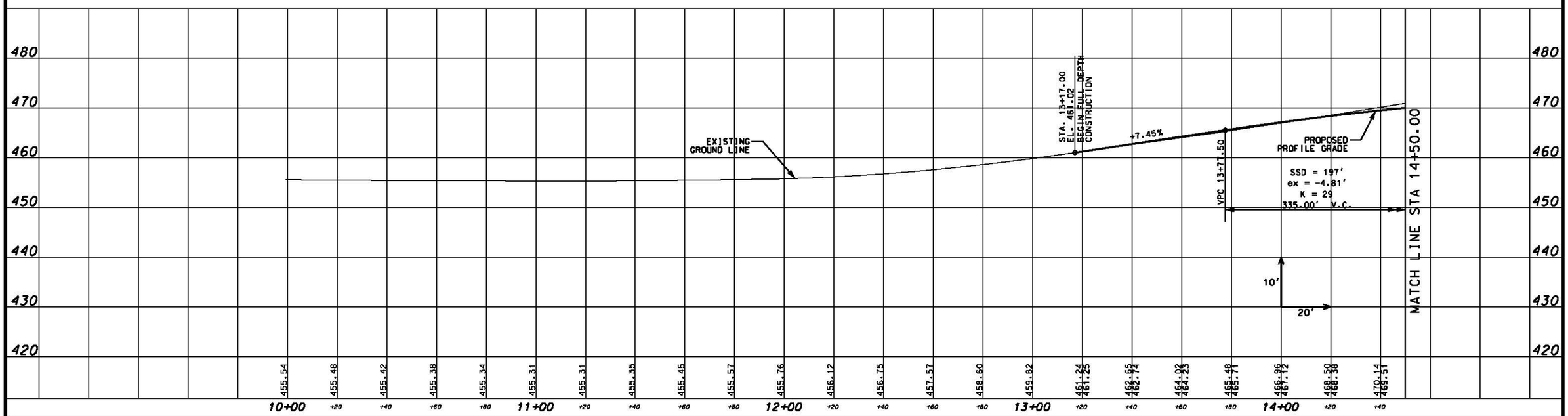

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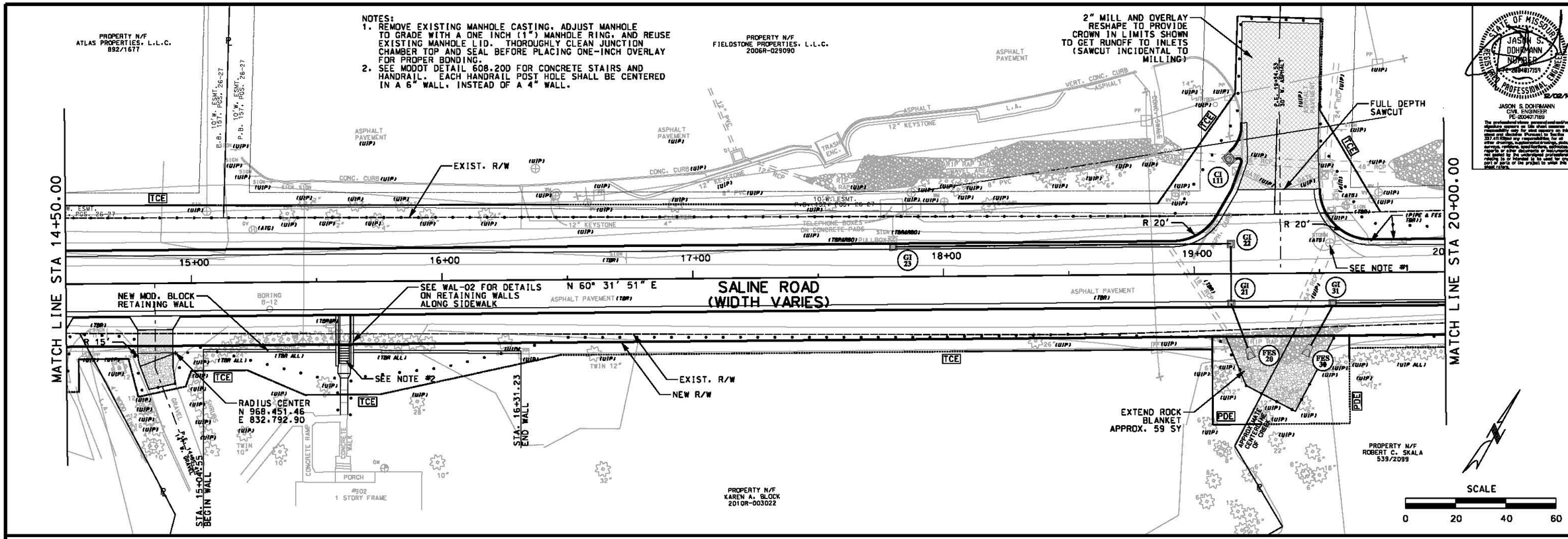
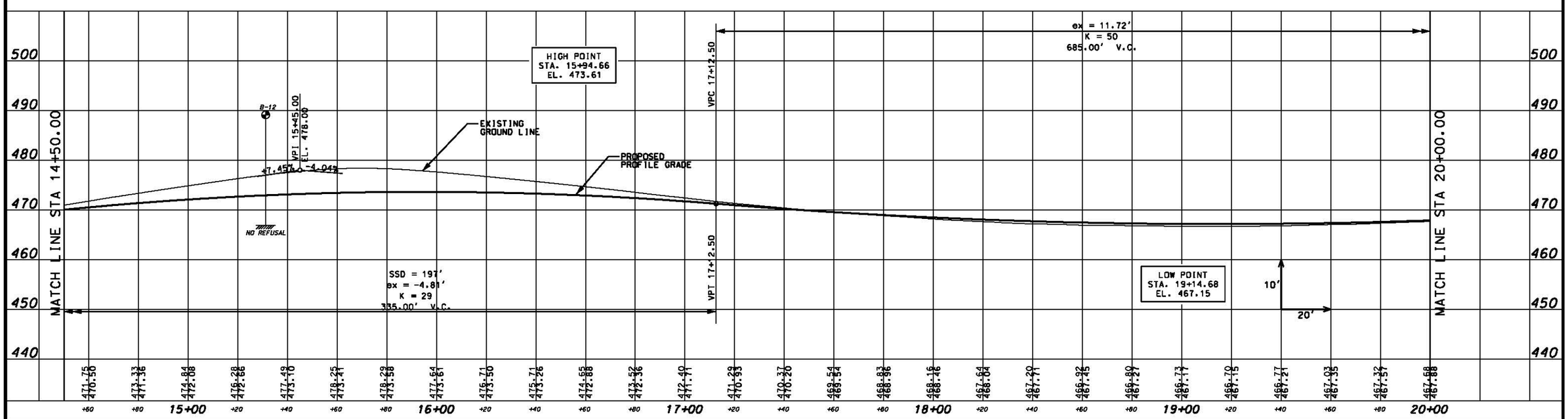
5403(642)/TIP#5589-12

PLAN AND PROFILE SHEETS
MAINLINE ALIGNMENT
(Sheet 1 of 10)

SHEET NO.
PNP-01

NOTES:
1. REMOVE EXISTING MANHOLE CASTING. ADJUST MANHOLE TO GRADE WITH A ONE INCH (1") MANHOLE RING, AND REUSE EXISTING MANHOLE LID. THOROUGHLY CLEAN JUNCTION CHAMBER TOP AND SEAL BEFORE PLACING ONE-INCH OVERLAY FOR PROPER BONDING.
2. SEE MODOT DETAIL 608.20D FOR CONCRETE STAIRS AND HANDRAIL. EACH HANDRAIL POST HOLE SHALL BE CENTERED IN A 6" WALL, INSTEAD OF A 4" WALL.





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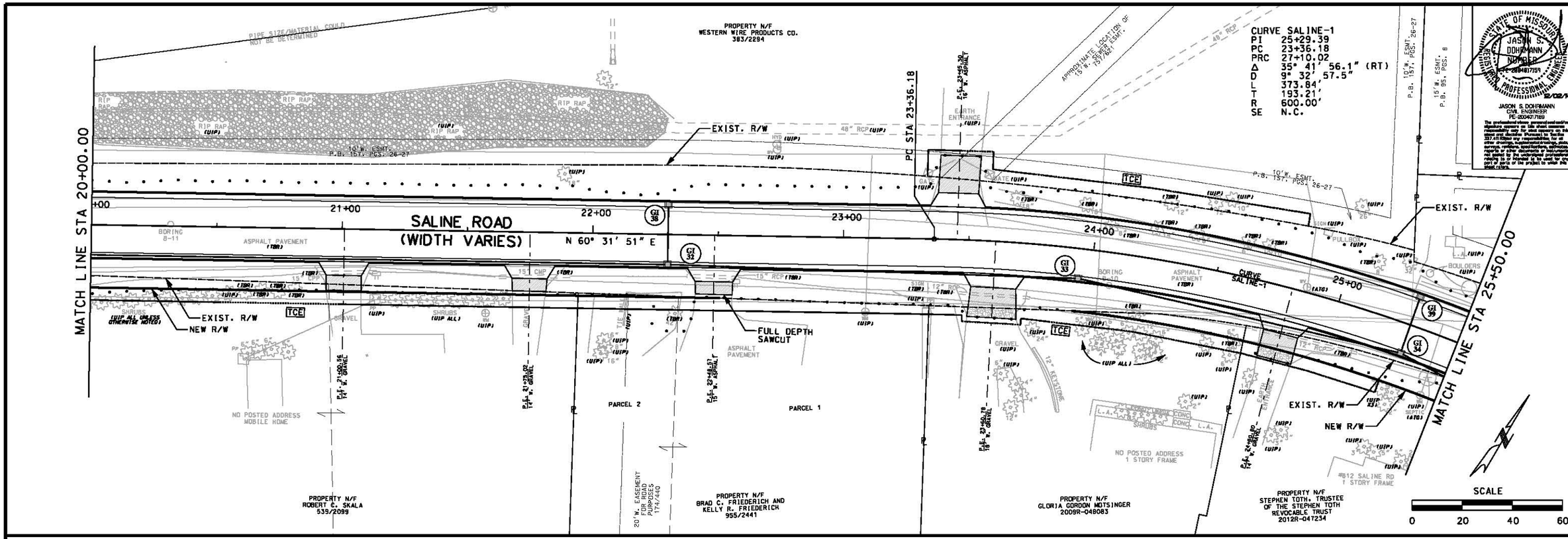
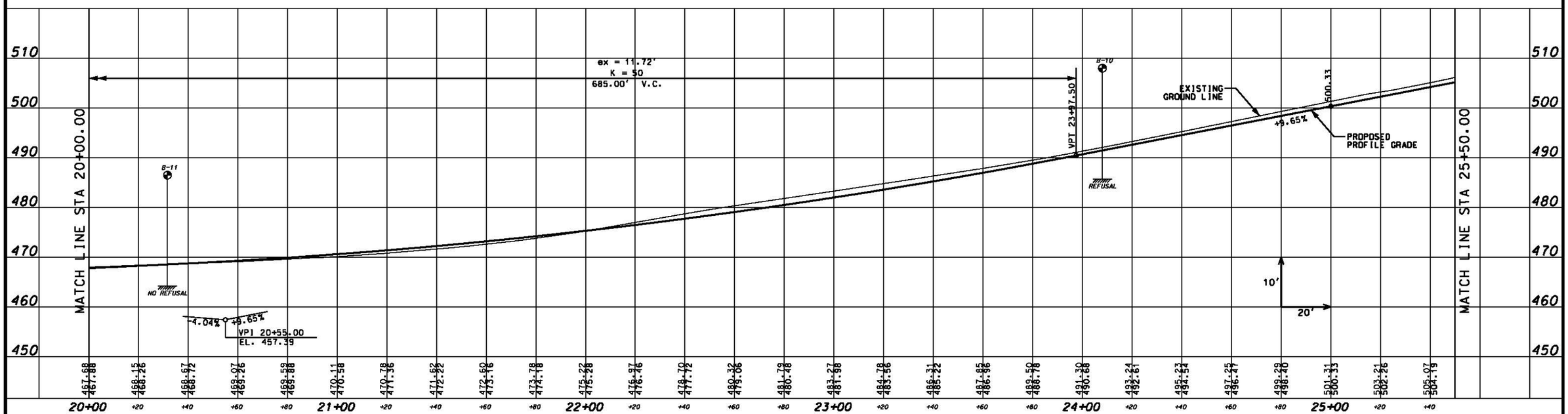
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PLAN AND PROFILE SHEETS
MAINLINE ALIGNMENT
(Sheet 2 of 10)

SHEET NO.
PNP-02





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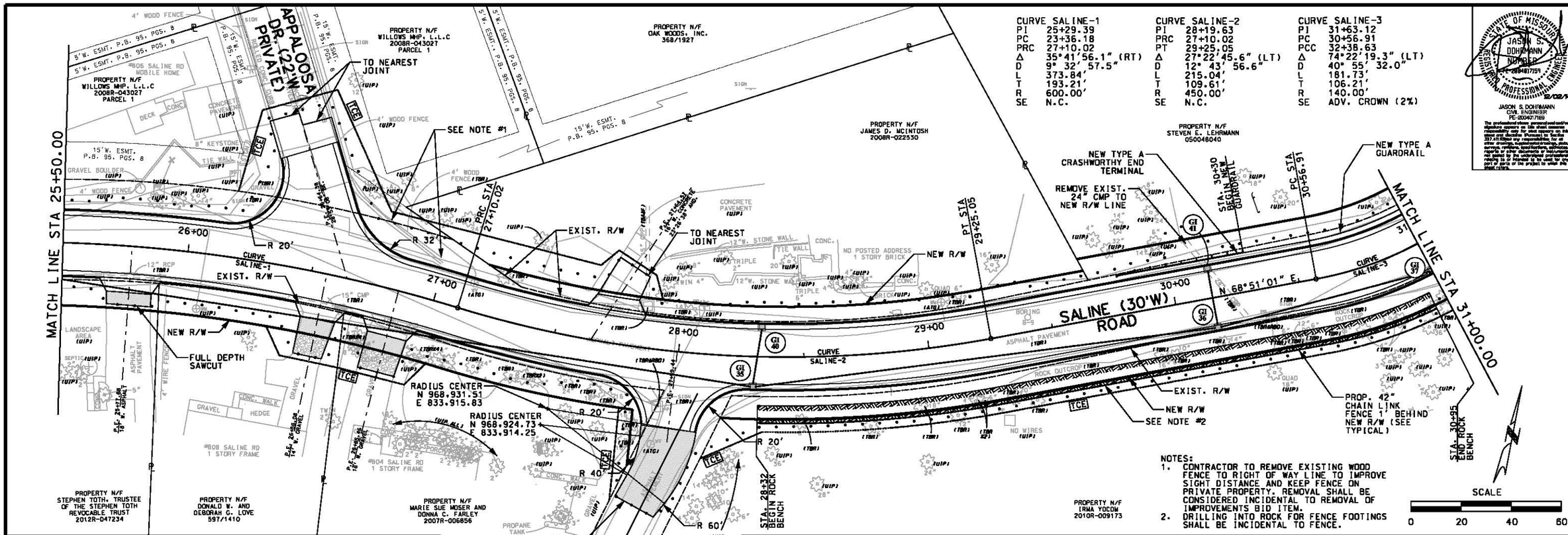
5403(642)/TIP#5589-12

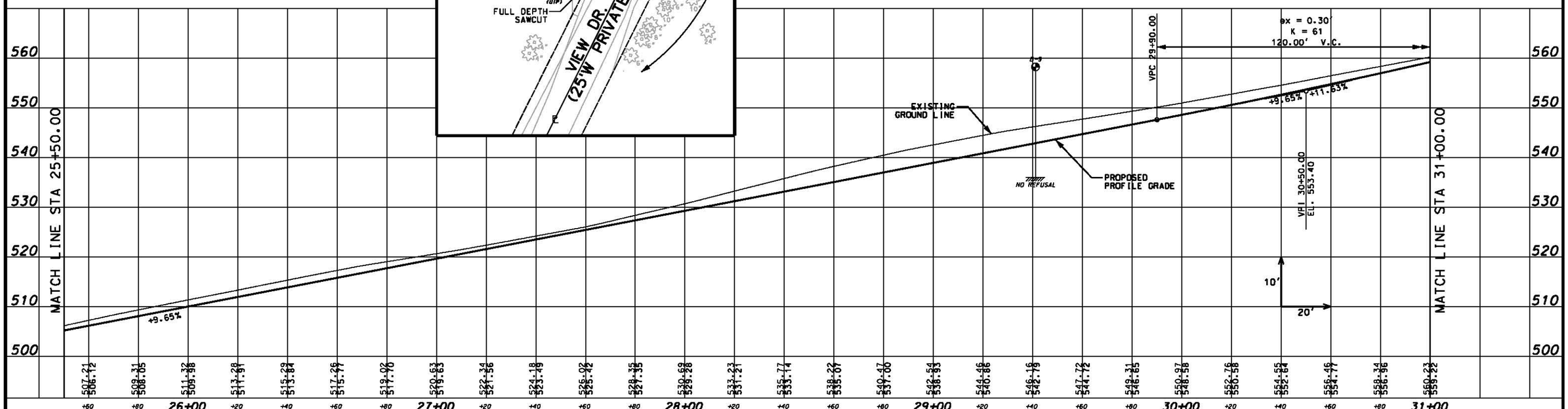
PLAN AND PROFILE SHEETS
MAINLINE ALIGNMENT
(Sheet 3 of 10)

SHEET NO.
PNP-03
15 of 99

CURVE SALINE-1		CURVE SALINE-2		CURVE SALINE-3	
PI	25+29.39	PI	28+19.63	PI	31+63.12
PC	23+36.18	PRC	27+10.02	PC	30+56.91
PRC	27+10.02	PT	29+25.05	PCC	32+38.63
Δ	35°41'56.1" (RT)	Δ	27°22'45.6" (LT)	Δ	74°22'19.3" (LT)
D	9° 32' 57.5"	D	12° 43' 56.6"	D	40° 55' 32.0"
L	373.84'	L	215.04'	L	181.73'
T	193.21'	T	109.61'	T	106.21'
R	600.00'	R	450.00'	R	140.00'
SE	N.C.	SE	N.C.	SE	ADV. CROWN (2%)



NOTES:
1. CONTRACTOR TO REMOVE EXISTING WOOD FENCE TO RIGHT OF WAY LINE TO IMPROVE SIGHT DISTANCE AND KEEP FENCE ON PRIVATE PROPERTY. REMOVAL SHALL BE CONSIDERED INCIDENTAL TO REMOVAL OF IMPROVEMENTS BID ITEM.
2. DRILLING INTO ROCK FOR FENCE FOOTINGS SHALL BE INCIDENTAL TO FENCE.



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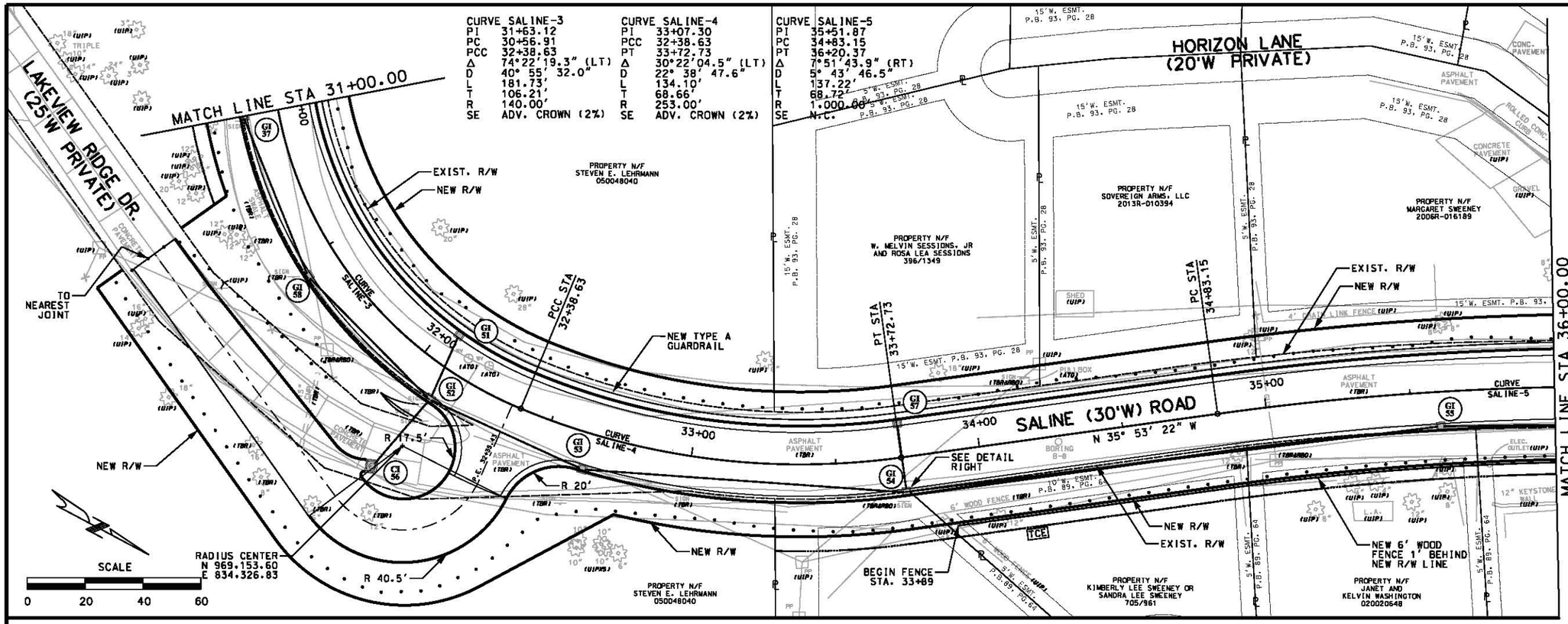
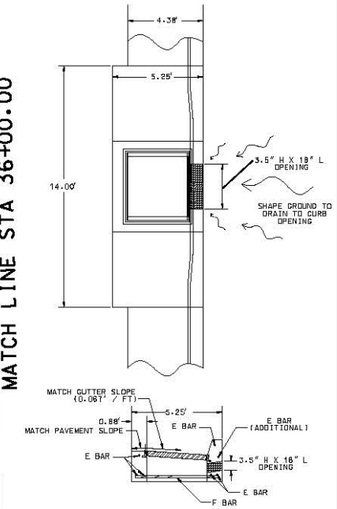
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PLAN AND PROFILE SHEETS
MAINLINE ALIGNMENT
(Sheet 4 of 10)

SHEET NO.
PNP-04
16 of 99

CURVE SALINE-3		CURVE SALINE-4		CURVE SALINE-5	
PI	31+63.12	PI	33+07.30	PI	35+51.87
PC	30+56.91	PCC	32+38.63	PC	34+83.15
PCC	32+38.63	PT	33+72.73	PT	36+20.37
Δ	74°22'19.3" (LT)	Δ	30°22'04.5" (LT)	Δ	7°51'43.9" (RT)
D	40° 55' 32.0"	D	22° 38' 47.6"	D	5° 43' 46.5"
L	181.73'	L	134.10'	L	137.22'
T	106.21'	T	68.66'	T	68.72'
R	140.00'	R	253.00'	R	1,000.00'
SE	ADV. CROWN (2%)	SE	ADV. CROWN (2%)	SE	N.C.





SPECIAL DROP INLET DETAIL FOR GI-54 (STA. 33+73 RT.)

CONSTRUCT DROP INLET COVER PER MODOT STANDARD 731.10. EXCEPT PROVIDE A 3.5' X 18" OPENING THROUGH BACK SIDE. INSTALL AN ADDITIONAL 5/8" BAR ADDV. OPENING. NO ADD'L PAYMENT MADE FOR THIS MODIFICATION

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017159
PROFESSIONAL ENGINEER
2/02/14

JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017159

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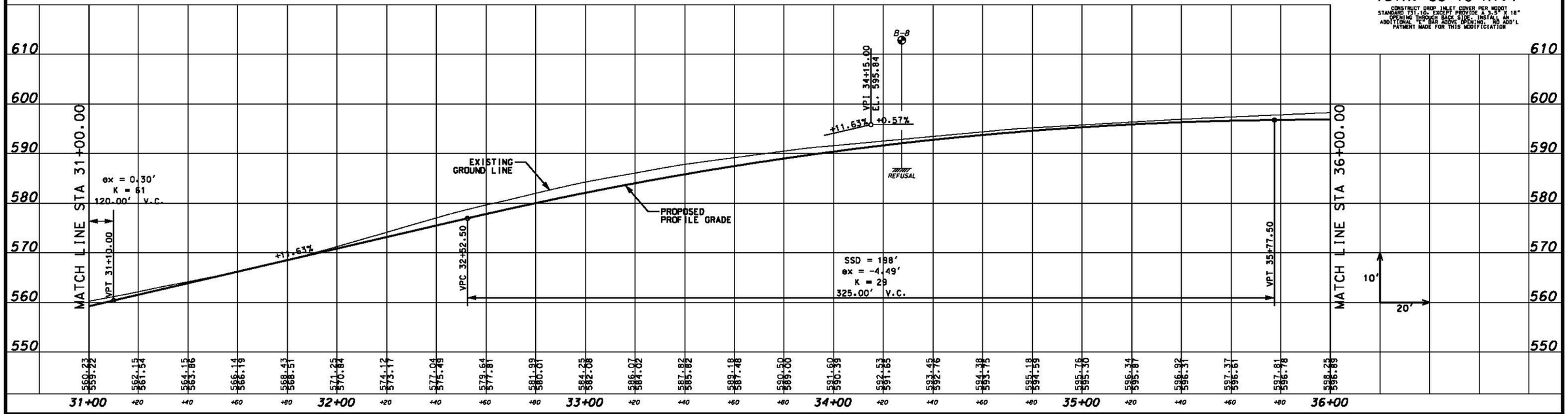

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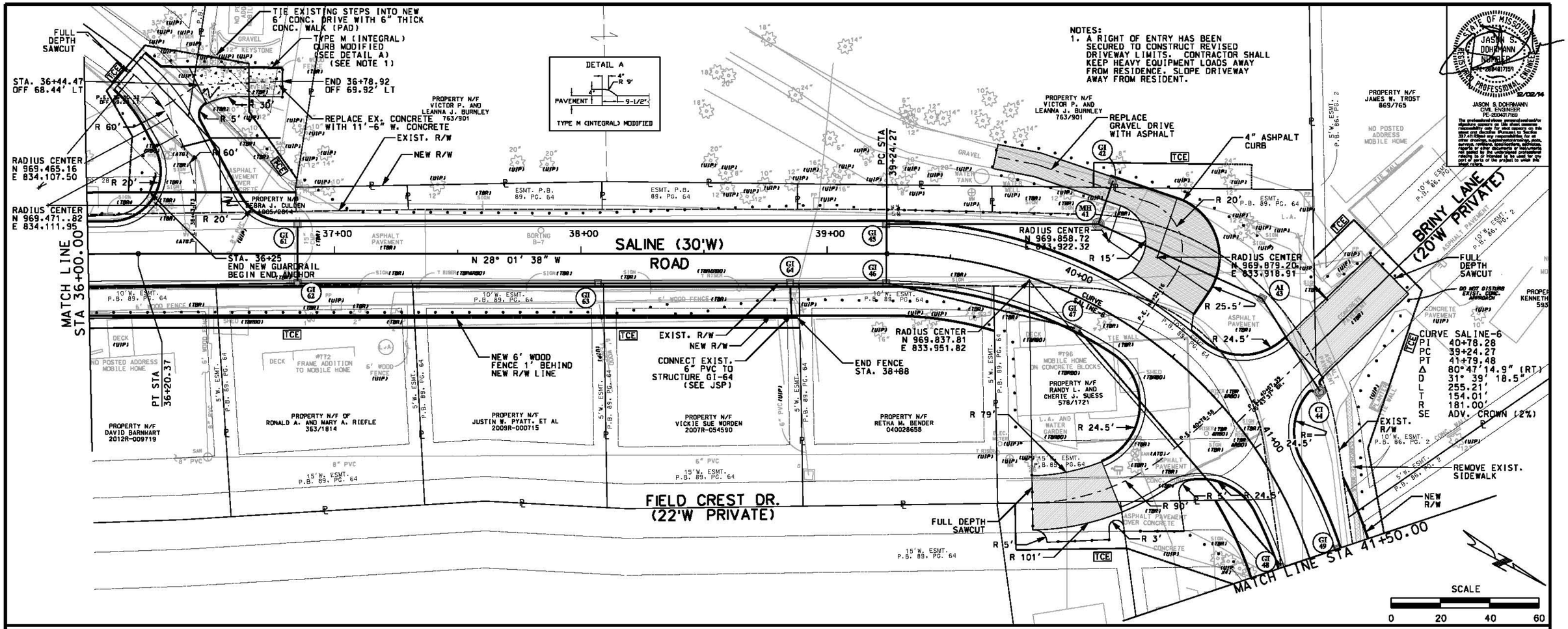
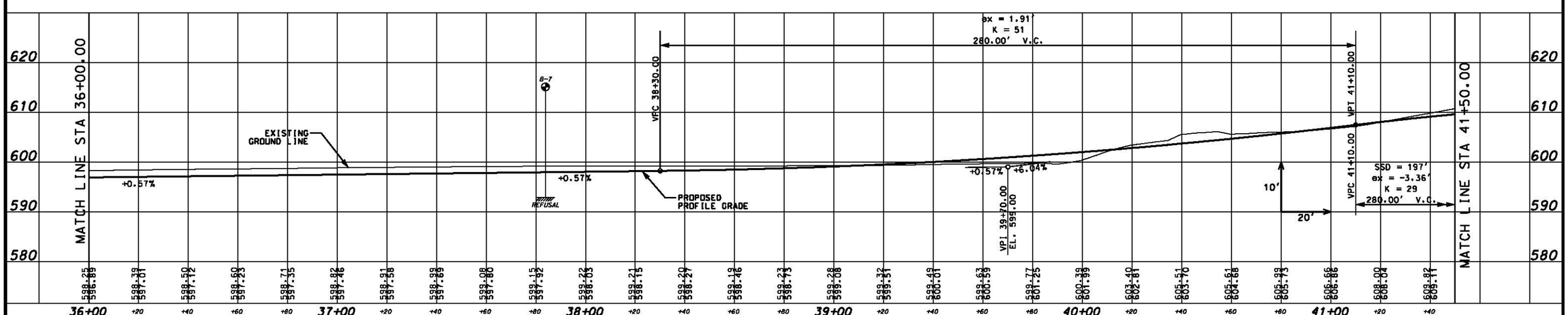
5403(642)/TIP*5589-12

PLAN AND PROFILE SHEETS
MAINLINE ALIGNMENT
(Sheet 5 of 10)

SHEET NO.
PNP-05

NOTES:
1. A RIGHT OF ENTRY HAS BEEN SECURED TO CONSTRUCT REVISED DRIVEWAY LIMITS. CONTRACTOR SHALL KEEP HEAVY EQUIPMENT LOADS AWAY FROM RESIDENCE. SLOPE DRIVEWAY AWAY FROM RESIDENT.





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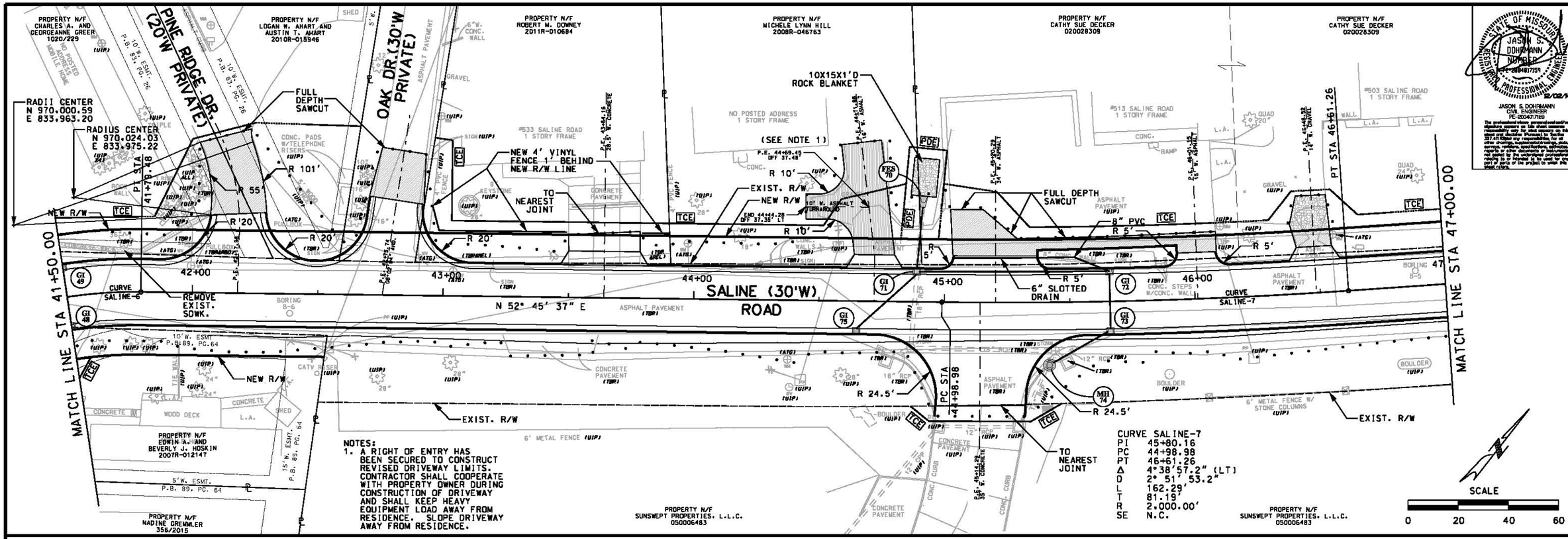
5403(642)/TIP#5589-12

PLAN AND PROFILE SHEETS
MAINLINE ALIGNMENT
(Sheet 6 of 10)

SHEET NO.
PNP-06
18 of 99



NOTES:
1. A RIGHT OF ENTRY HAS BEEN SECURED TO CONSTRUCT REVISED DRIVEWAY LIMITS. CONTRACTOR SHALL COOPERATE WITH PROPERTY OWNER DURING CONSTRUCTION OF DRIVEWAY AND SHALL KEEP HEAVY EQUIPMENT LOAD AWAY FROM RESIDENCE. SLOPE DRIVEWAY AWAY FROM RESIDENCE.

CURVE SALINE-7

PI	45+80.16
PC	44+98.98
PT	46+61.26
Δ	4°38'57.2" (LT)
D	2° 51' 53.2"
L	162.29'
T	81.19'
R	2,000.00'
SE	N.C.

STATE OF MISSOURI JASON S. DOHRMANN NUMBER PE-2004017169 REGISTERED PROFESSIONAL ENGINEER 12/02/14
JASON S. DOHRMANN CIVIL ENGINEER PE-2004017169
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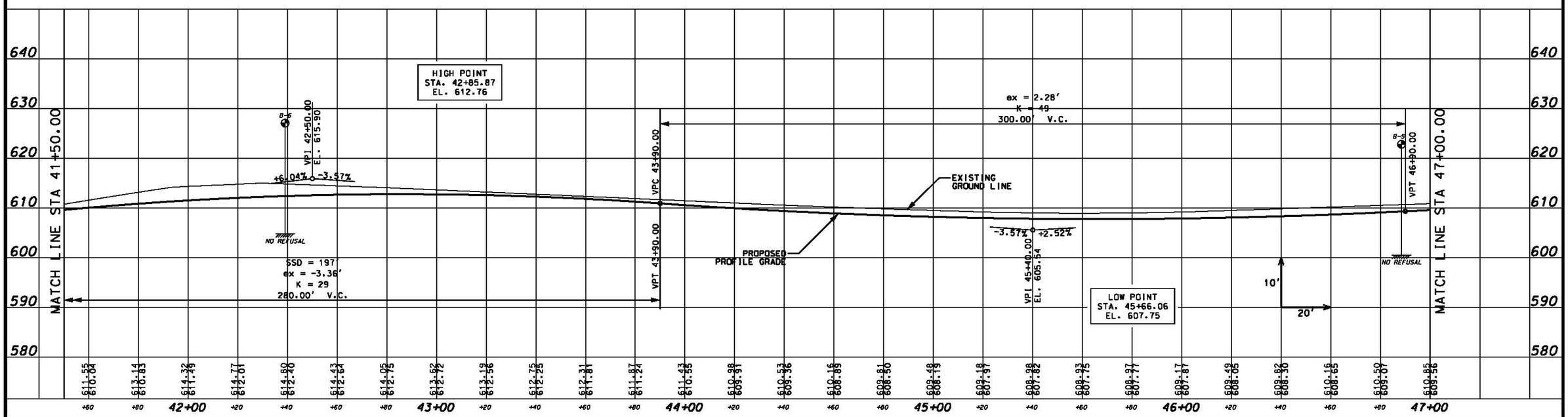

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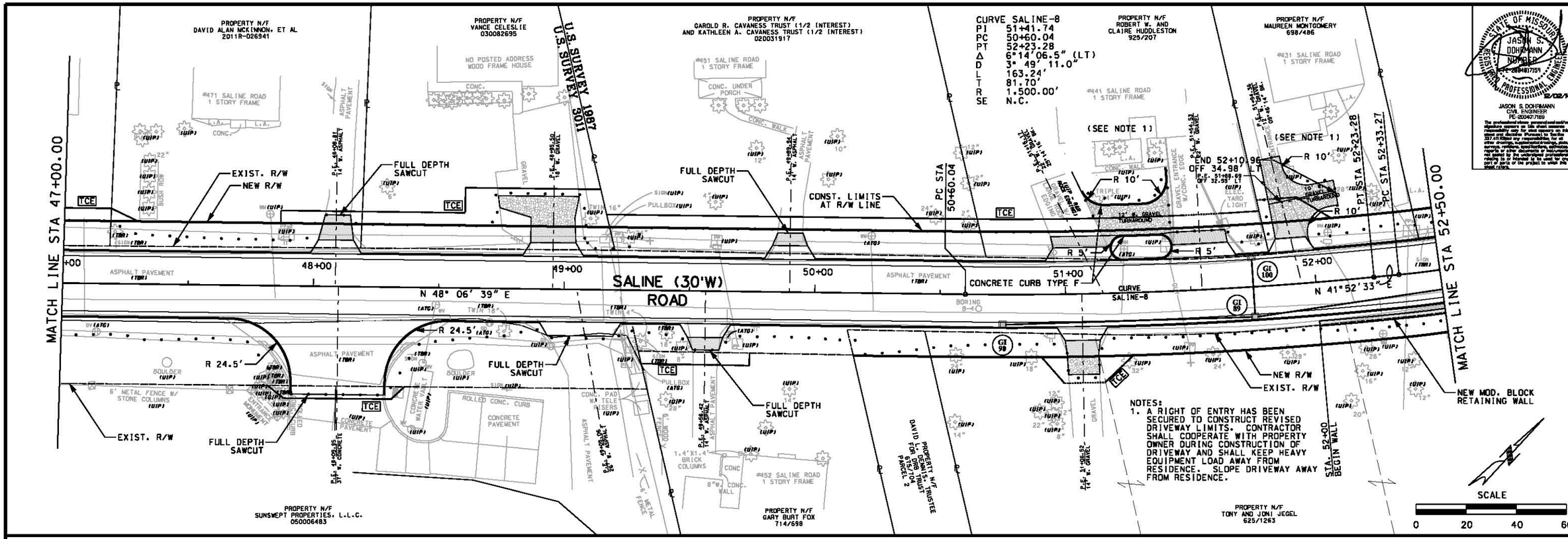
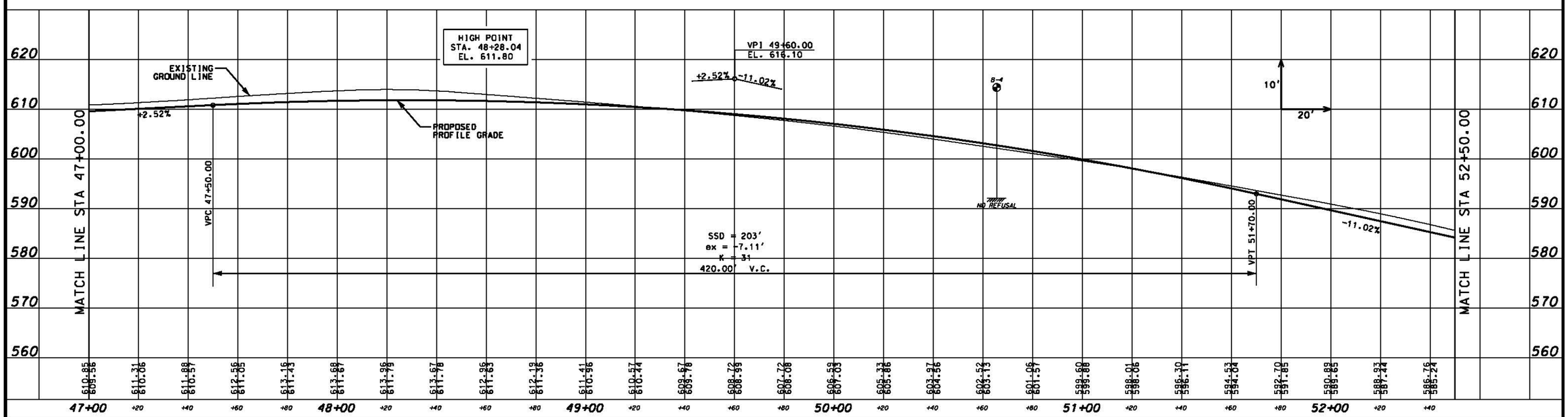
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PLAN AND PROFILE SHEETS
MAINLINE ALIGNMENT
(Sheet 7 of 10)

SHEET NO.
PNP-07



NOTES:
1. A RIGHT OF ENTRY HAS BEEN SECURED TO CONSTRUCT REVISED DRIVEWAY LIMITS. CONTRACTOR SHALL COOPERATE WITH PROPERTY OWNER DURING CONSTRUCTION OF DRIVEWAY AND SHALL KEEP HEAVY EQUIPMENT LOAD AWAY FROM RESIDENCE. SLOPE DRIVEWAY AWAY FROM RESIDENCE.



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5403(642)/TIP#5589-12

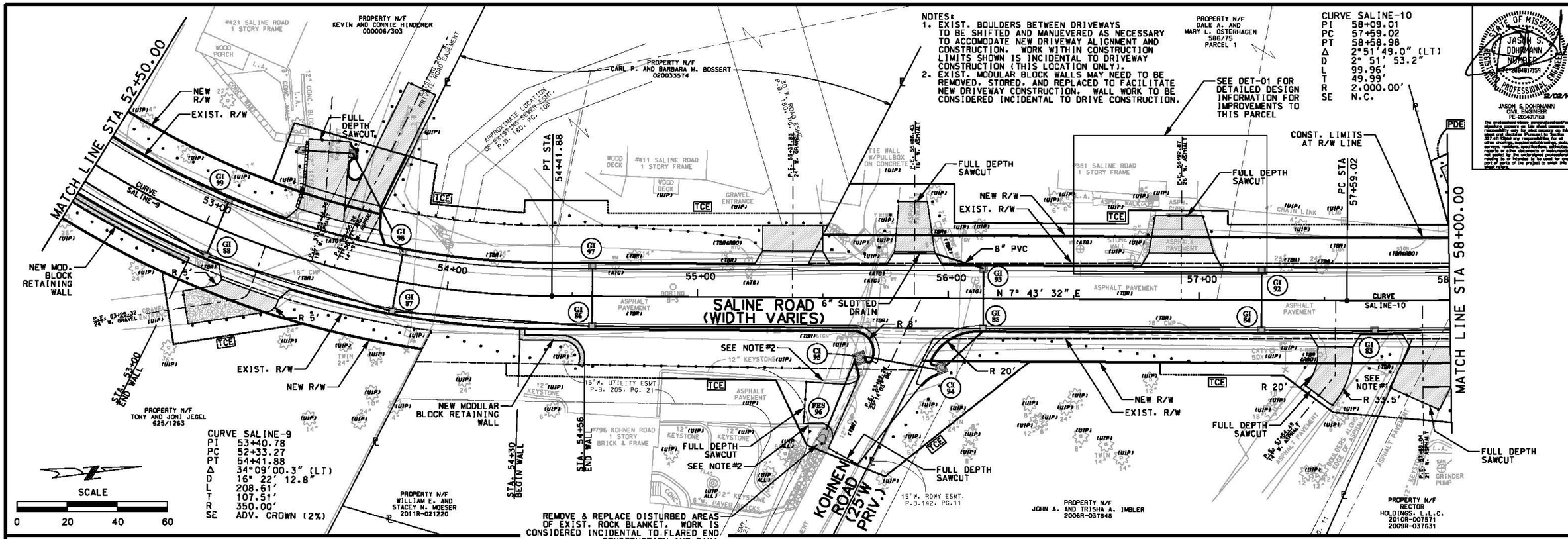
PLAN AND PROFILE SHEETS
MAINLINE ALIGNMENT
(Sheet 8 of 10)

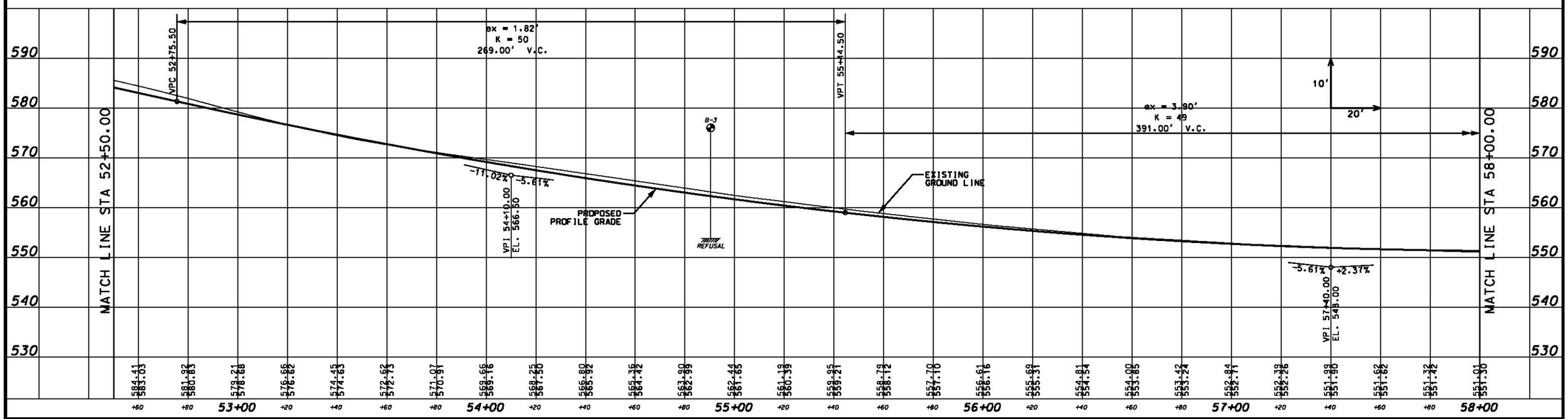
SHEET NO.
PNP-08
20 of 99

NOTES:
1. EXIST. BOULDERS BETWEEN DRIVEWAYS TO BE SHIFTED AND MANUEVERED AS NECESSARY TO ACCOMODATE NEW DRIVEWAY ALIGNMENT AND CONSTRUCTION. WORK WITHIN CONSTRUCTION LIMITS SHOWN IS INCIDENTAL TO DRIVEWAY CONSTRUCTION (THIS LOCATION ONLY).
2. EXIST. MODULAR BLOCK WALLS MAY NEED TO BE REMOVED, STORED, AND REPLACED TO FACILITATE NEW DRIVEWAY CONSTRUCTION. WALL WORK TO BE CONSIDERED INCIDENTAL TO DRIVE CONSTRUCTION.

CURVE SALINE-10
PI 58+09.01
PC 57+59.02
PT 58+58.98
Δ 2°51'49.0" (LT)
D 2° 51' 53.2"
L 99.96'
T 49.99'
R 2,000.00'
SE N.C.

CURVE SALINE-9
PI 53+40.78
PC 52+33.27
PT 54+41.88
Δ 34°09'00.3" (LT)
D 16° 22' 12.8"
L 208.61'
T 107.51'
R 350.00'
SE ADV. CROWN (2%)





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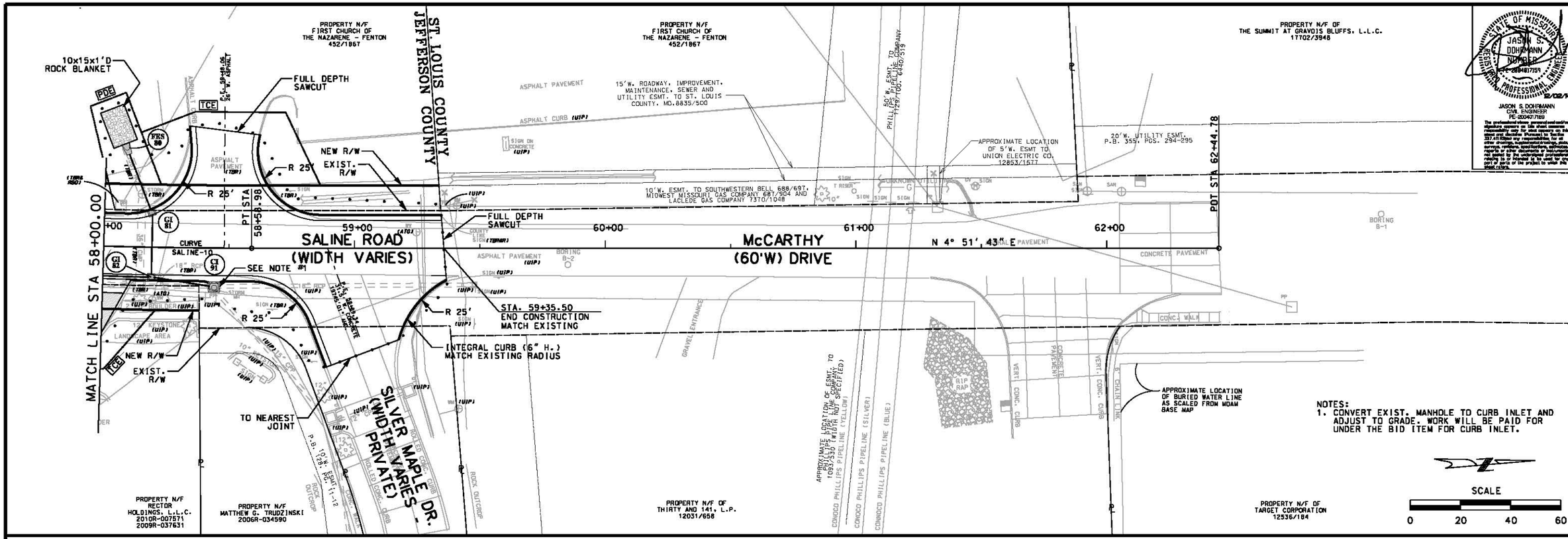
5403(642)/TIP#5589-12

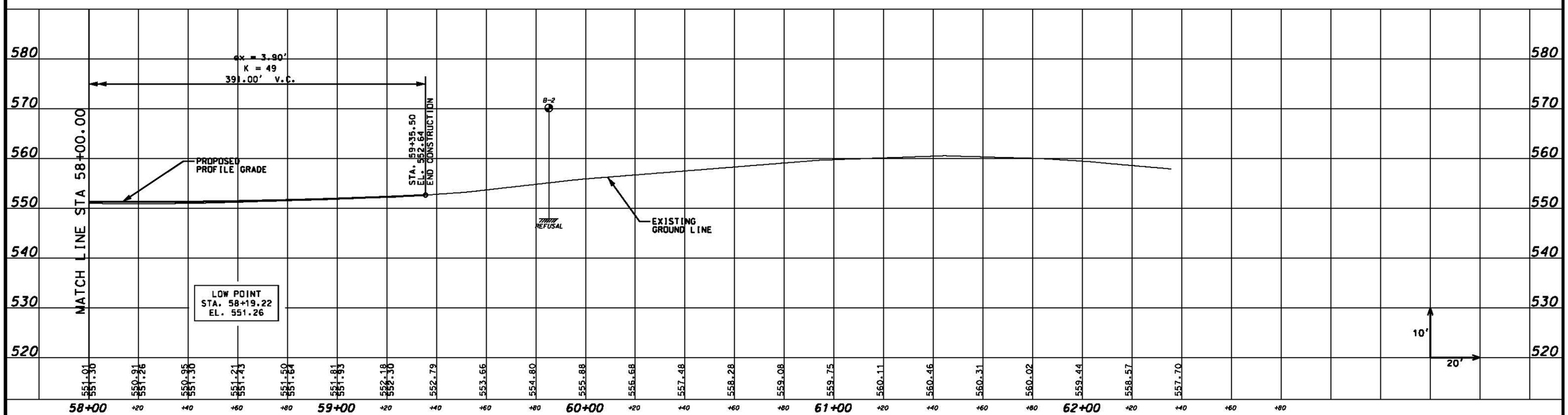
PLAN AND PROFILE SHEETS
MAINLINE ALIGNMENT
(Sheet 9 of 10)

SHEET NO.
PNP-09
21 of 99



NOTES:
1. CONVERT EXIST. MANHOLE TO CURB INLET AND ADJUST TO GRADE. WORK WILL BE PAID FOR UNDER THE BID ITEM FOR CURB INLET.

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017169
REGISTERED PROFESSIONAL ENGINEER
12/02/14
JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017169



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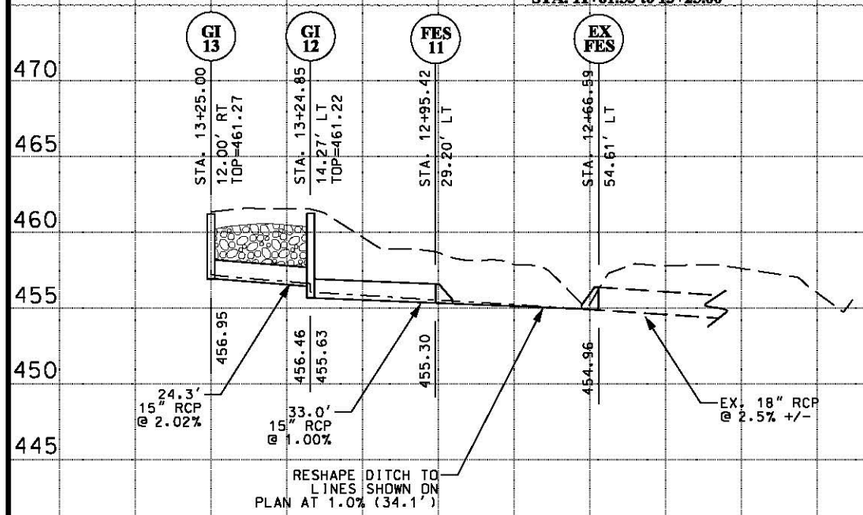
PLAN AND PROFILE SHEETS
MAINLINE ALIGNMENT
(Sheet 10 of 10)

SHEET NO.
PNP-10
22 of 99

NETWORK 1

SALINE ROAD
STA. 11+61.53 to 13+25.00



GENERAL DRAINAGE NOTES:

1. ALL GRATE INLETS ARE INTENDED TO BE 2'X2' GRATE INLETS WITH SIDE INTAKES UNLESS OTHERWISE NOTED.
2. ALL INLET BASES SHALL BE MODOT 2'x2' TYPE S-1 INLET BASES UNLESS OTHERWISE SPECIFIED. NO ADD'L PAYMENT WILL BE MADE FOR ANY MODIFICATIONS OR NON-STANDARD INLET BASES NEEDED TO CONSTRUCT THE PLANS AS SHOWN / BID.
3. ALL MANHOLES SHALL BE 42-INCH DIAMETER BASES UNLESS OTHERWISE NOTED. MANHOLES CAN BE CAST IN PLACE OR PRECAST, IN ACCORDANCE WITH THE JOB SPECIFICATIONS.
4. GRANULAR BACKFILL IS REQUIRED FOR ALL INSTANCES WHERE NEW PIPE WILL BE LOCATED UNDER ROADWAY PAVEMENT, AS SHOWN HEREIN. GRANULAR BACKFILL IS CONSIDERED INCIDENTAL TO COST OF LAYING PIPE AND NO DIRECT PAY WILL BE MADE.
5. EXISTING WATER AND SANITARY CONNECTIONS WILL NOT BE MODIFIED WITH THIS WORK.
6. HGL IS DEFINED AS HYDRAULIC GRADE LINE.
7. ALL STATIONS AND OFFSETS ARE GIVEN TO AND MEASURED FROM THE CENTERLINE OF SALINE ROAD TO THE CENTER OF THE STRUCTURE, UNLESS OTHERWISE NOTED HEREIN. ALL TOP ELEVATIONS FOR GRATE INLETS ARE GIVEN AT THE FACE OF CURB UNLESS OTHERWISE NOTED HEREIN
8. UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONSIDERED AS SUCH.

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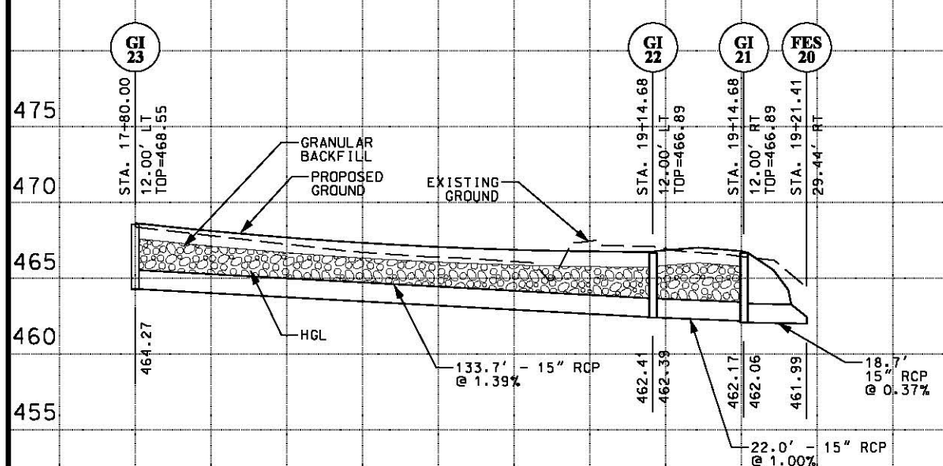
JASON S. DOHRMANN
NUMBER
PE-2004017759
REGISTERED PROFESSIONAL ENGINEER
2/02/14
JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017759

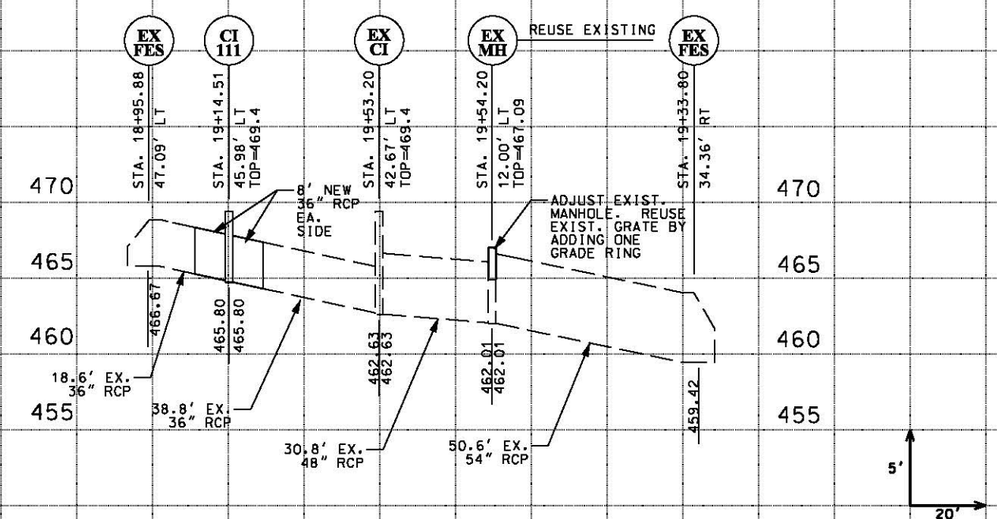
NETWORK 2A

SALINE ROAD
STA. 17+80.00 to 19+21.00



NETWORK 2B

SALINE ROAD
STA. 18+95.88 to 19+54.20



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APPROVED: JSD	JOB NUMBER:	75110022	
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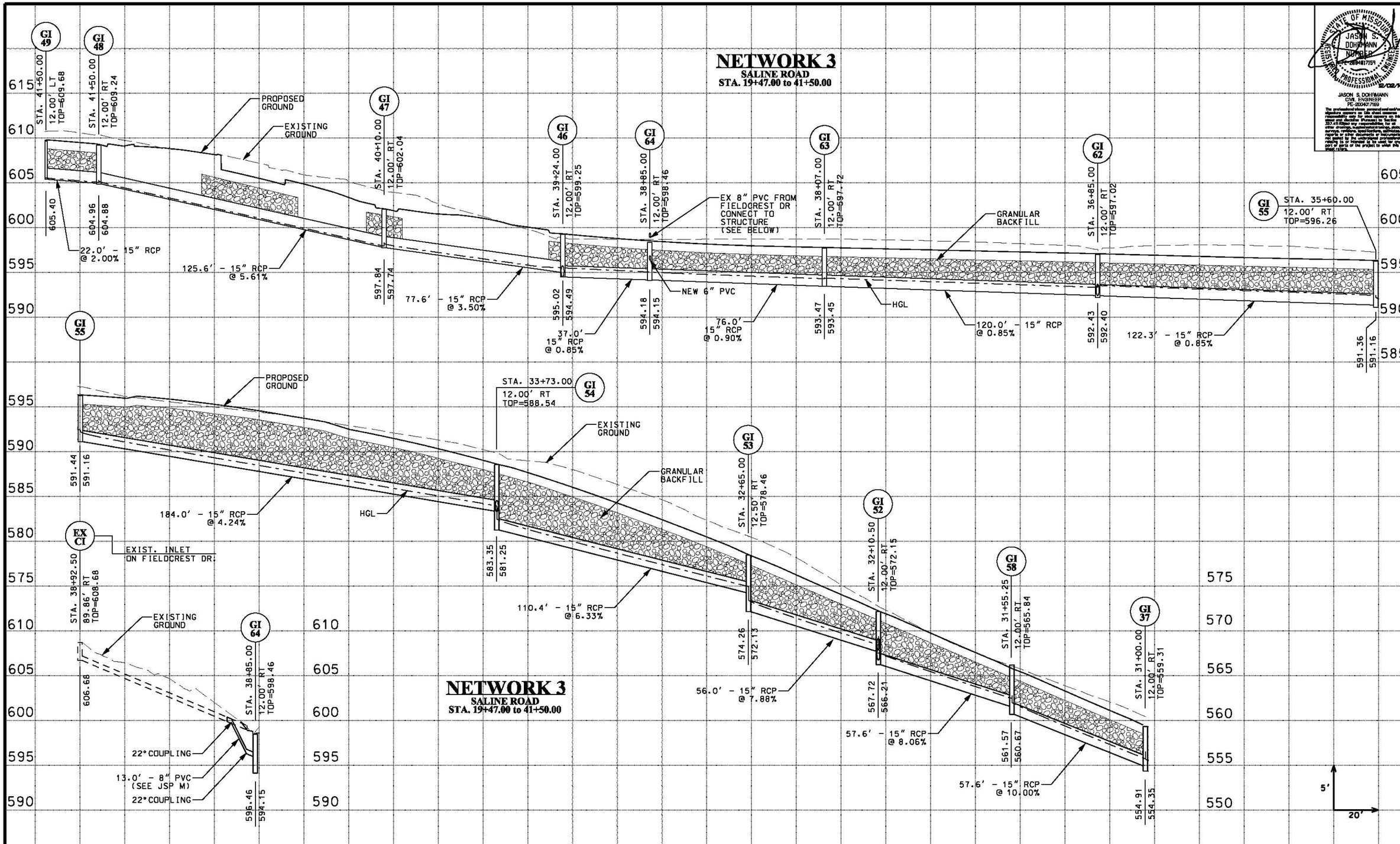
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

STORM SEWER PROFILES
NETWORKS 1 & 2
(Sheet 1 of 7)

SHEET NO.
DRN-01
23 of 99



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COUNTY OF JEFFERSON, MISSOURI
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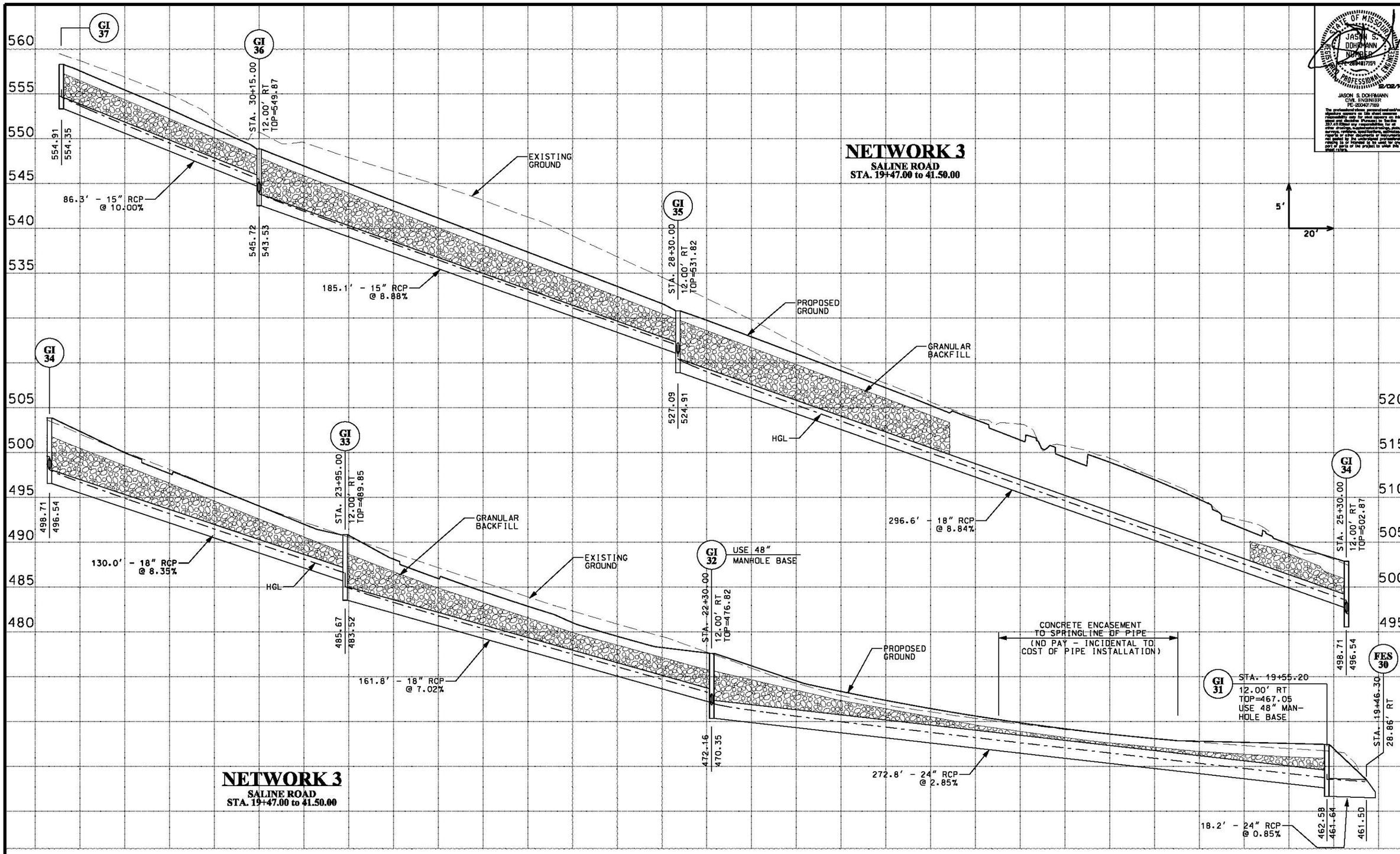
STORM SEWER PROFILES
NETWORK 3
(Sheet 2 of 7)

SHEET NO.
DRN-02
24 of 99



NETWORK 3
SALINE ROAD
STA. 19+47.00 to 41.50.00

STATE OF MISSOURI
JASON S. DOHRMANN
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JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017759

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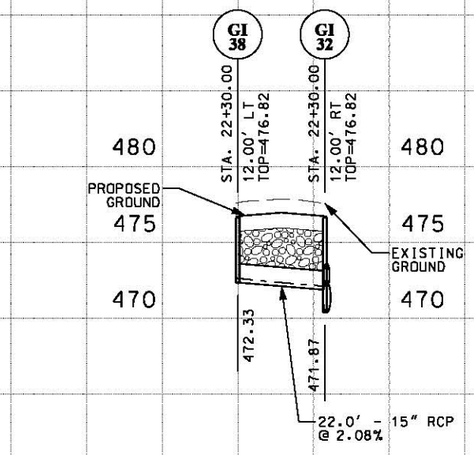
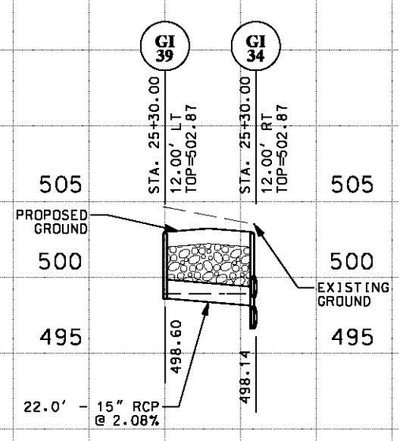
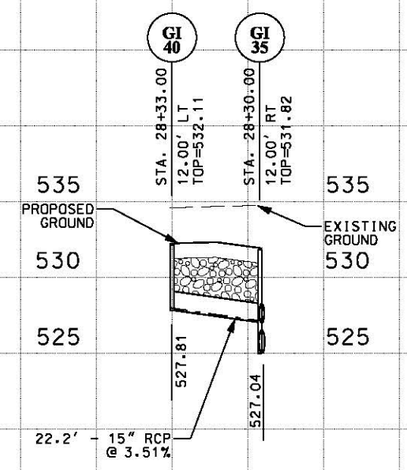
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

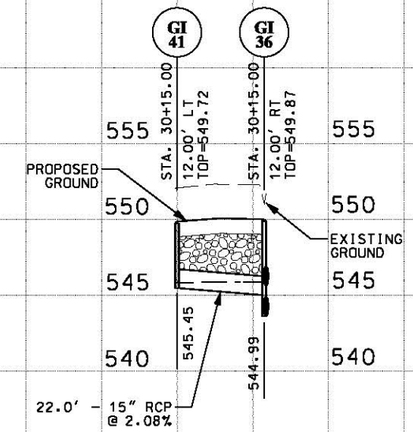
STORM SEWER PROFILES
NETWORK 3
(Sheet 3 of 7)

SHEET NO.
DRN-03



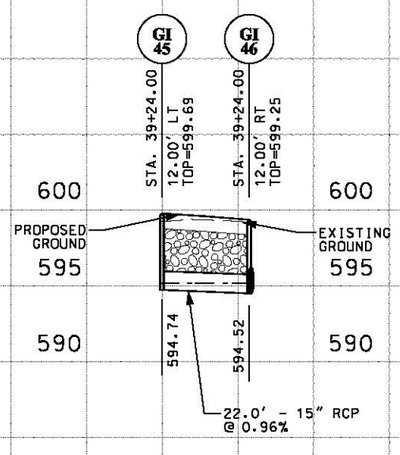


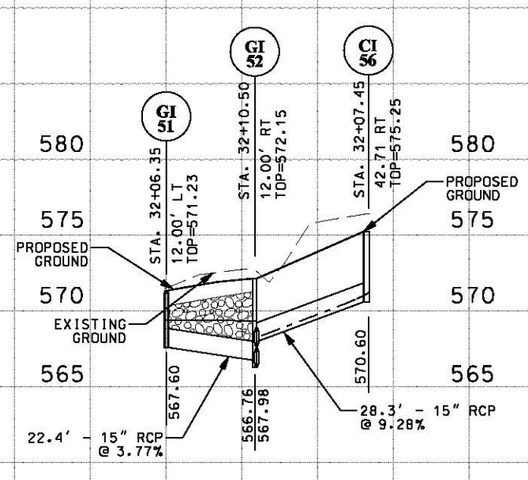


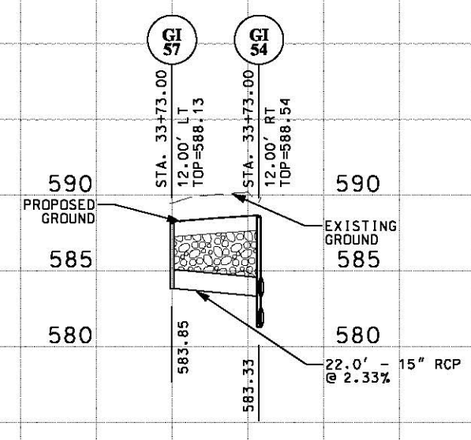


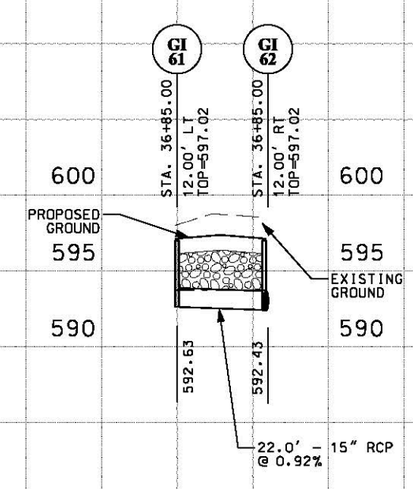
NETWORK 3

SALINE ROAD
PIPE CROSSINGS
STA. 19+47.00 to 41.50.00









5'
20'

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017759
REGISTERED PROFESSIONAL ENGINEER
12/02/14
JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017759
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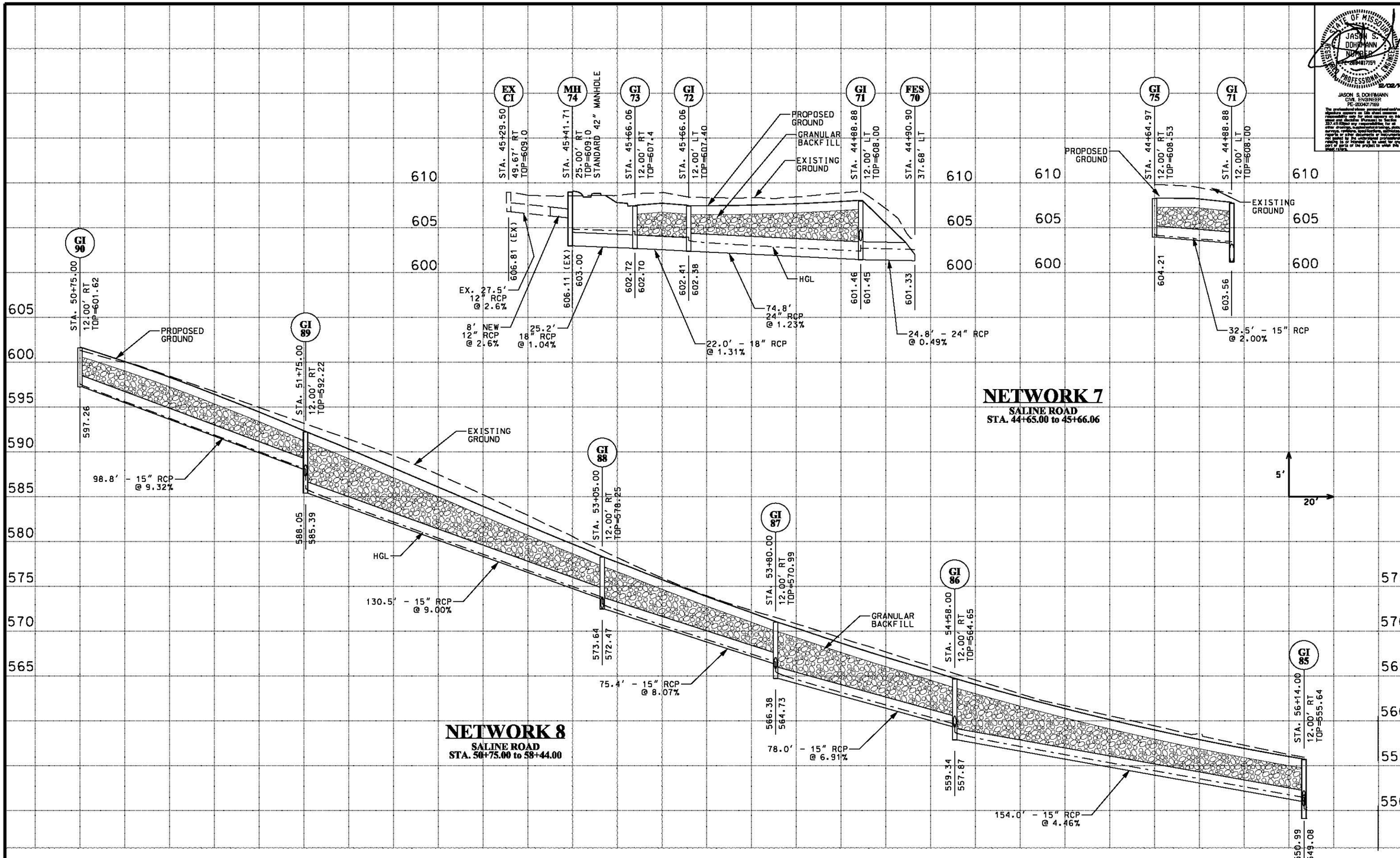
5403(642)/TIP#5589-12

STORM SEWER PROFILES
NETWORK 3
(Sheet 4 of 7)

SHEET NO.
DRN-04



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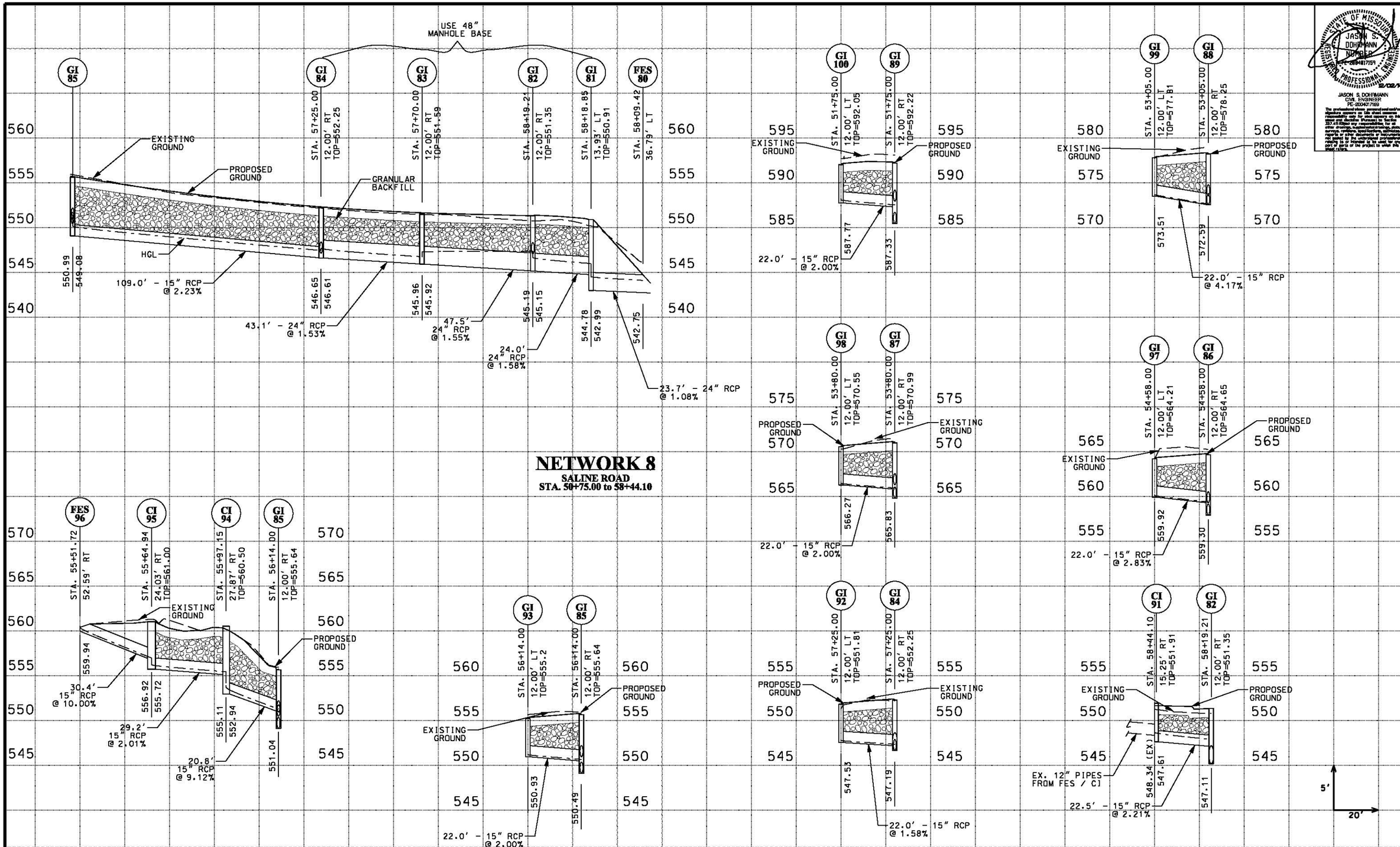
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

STORM SEWER PROFILES
NETWORKS 6, 7, & 8
(Sheet 5 of 7)

SHEET NO.
DRN-05
27 of 99



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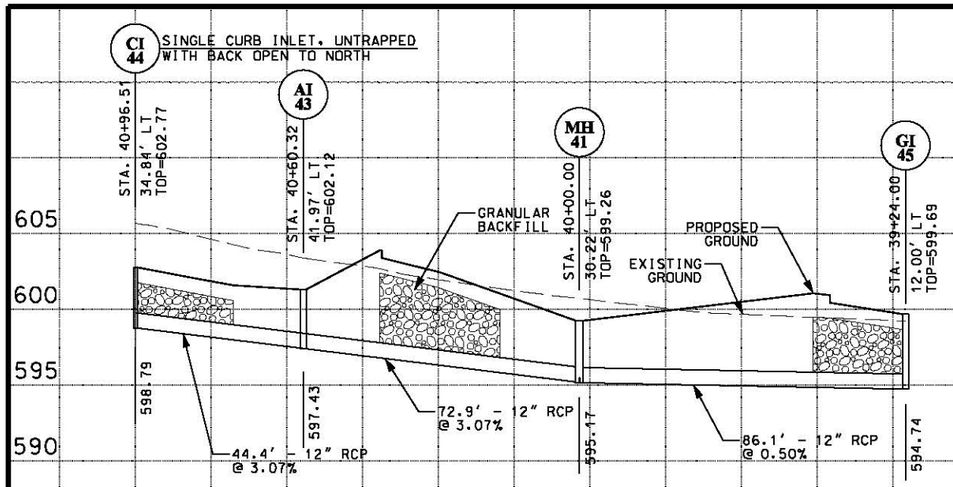
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP*5589-12

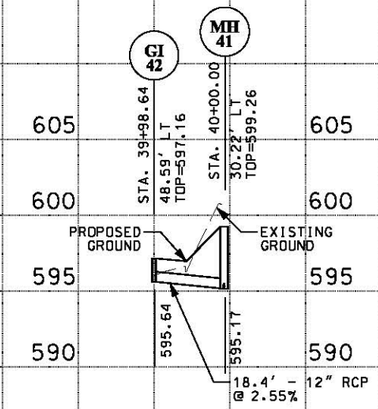
STORM SEWER PROFILES
NETWORK 8
(Sheet 6 of 7)

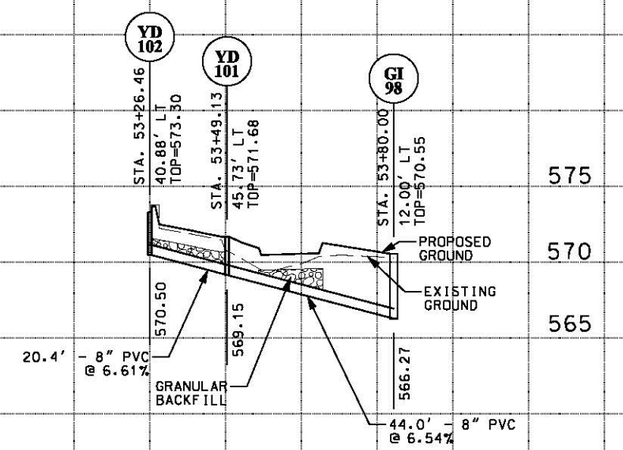
SHEET NO.
DRN-06
28 of 99



NETWORK 4

SALINE ROAD
STA. 39+98.64 to 41+98.18





NETWORK 8

SALINE ROAD
STA. 53+26.46 to 53+80.00
YARD DRAINS

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017169
REGISTERED PROFESSIONAL ENGINEER
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JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017169

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5'
20'

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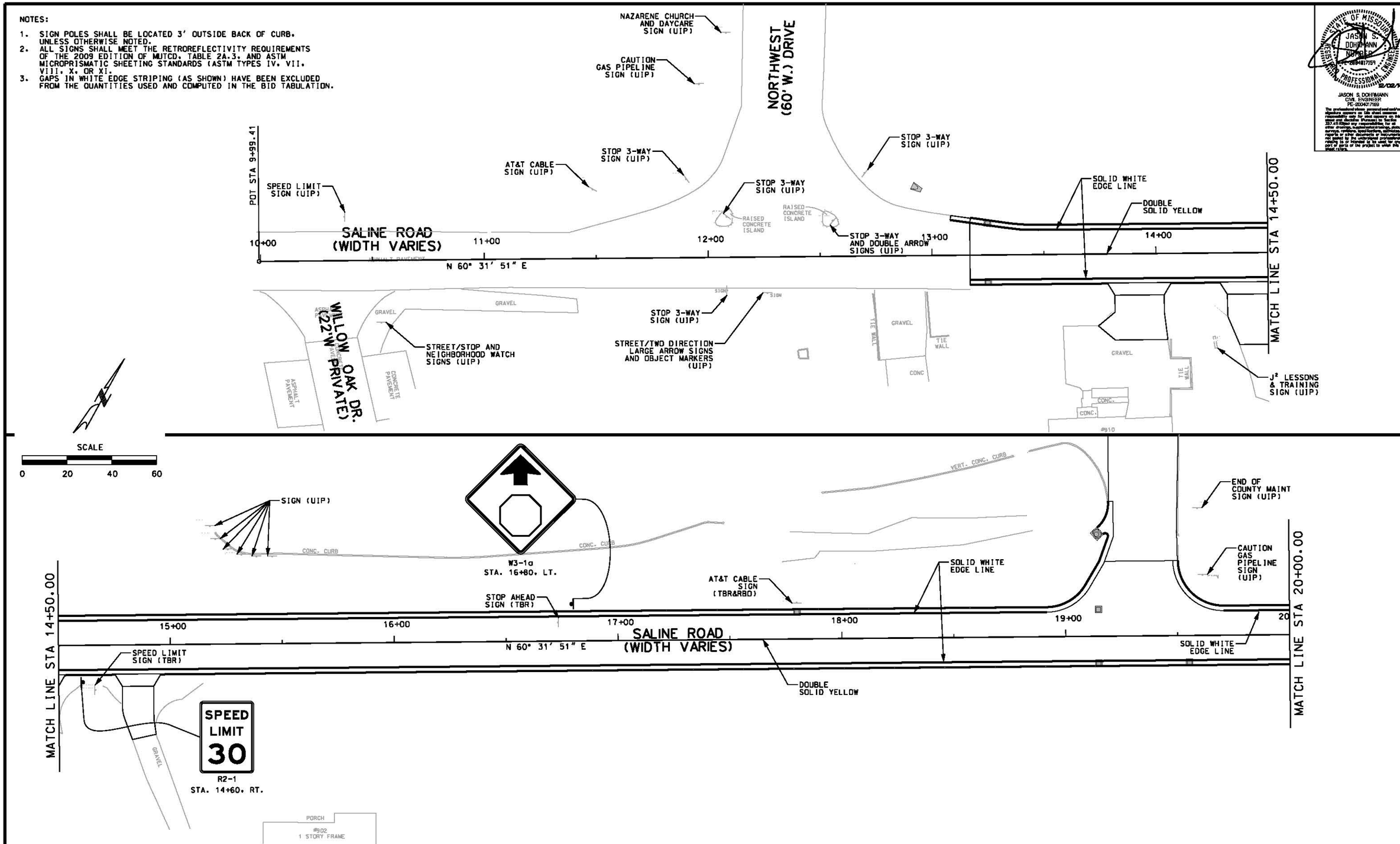
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

STORM SEWER PROFILES
NETWORKS 4 & 8
(Sheet 7 of 7)

SHEET NO.
DRN-07
29 of 99

NOTES:

1. SIGN POLES SHALL BE LOCATED 3' OUTSIDE BACK OF CURB, UNLESS OTHERWISE NOTED.
2. ALL SIGNS SHALL MEET THE RETROREFLECTIVITY REQUIREMENTS OF THE 2009 EDITION OF MUTCD, TABLE 2A.3, AND ASTM MICROPRISMATIC SHEETING STANDARDS (ASTM TYPES IV, VII, VIII, X, OR XI.
3. GAPS IN WHITE EDGE STRIPING (AS SHOWN) HAVE BEEN EXCLUDED FROM THE QUANTITIES USED AND COMPUTED IN THE BID TABULATION.



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NUMBER PE-2004017159
PROFESSIONAL ENGINEER
2/02/14
JASON S. DOHRMANN
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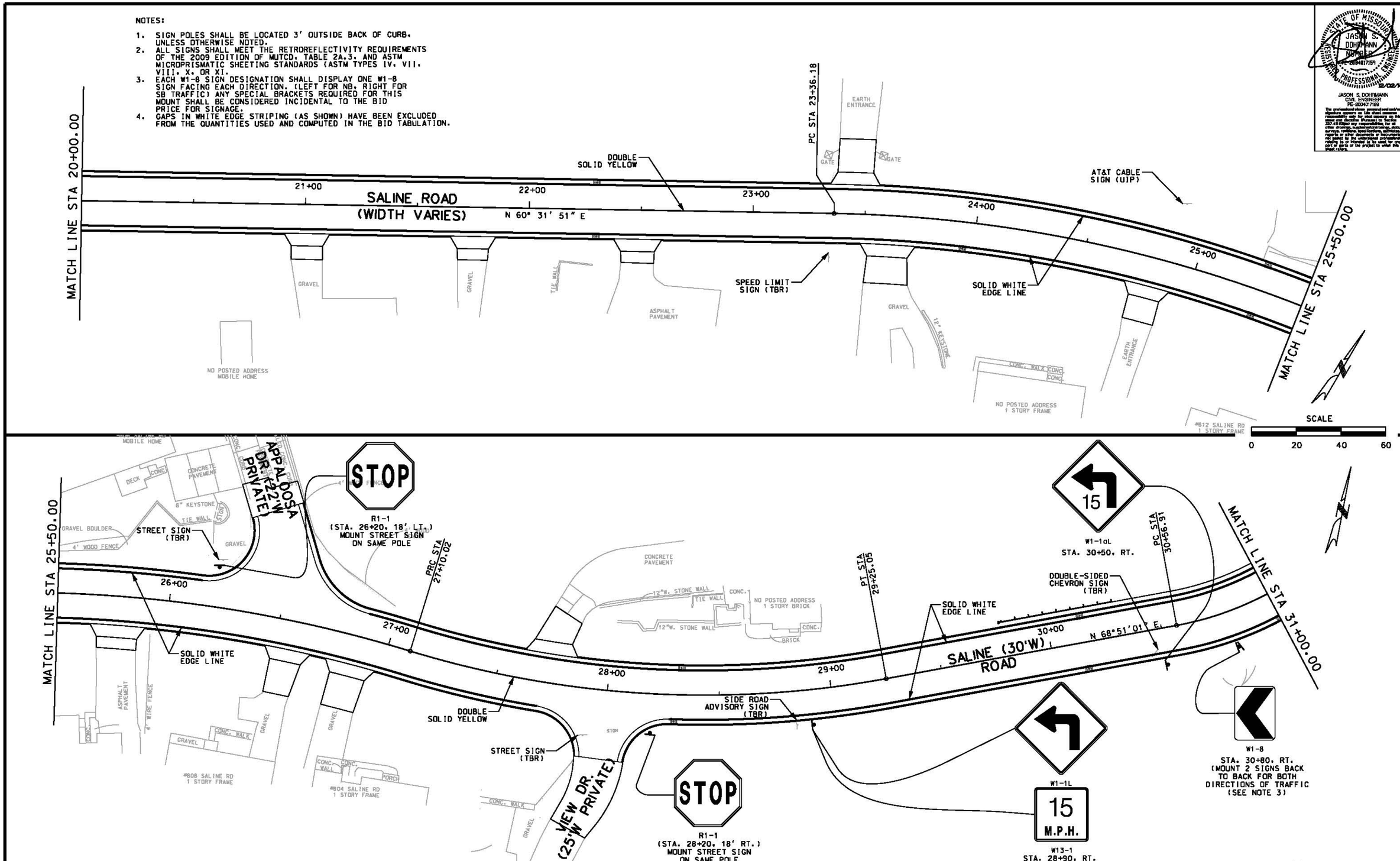
STRIPING AND SIGNAGE SHEETS
(Sheet 1 of 5)

SHEET NO.
STR-01
30 of 94

NOTES:

1. SIGN POLES SHALL BE LOCATED 3' OUTSIDE BACK OF CURB, UNLESS OTHERWISE NOTED.
2. ALL SIGNS SHALL MEET THE RETROREFLECTIVITY REQUIREMENTS OF THE 2009 EDITION OF MUTCD, TABLE 2A.3, AND ASTM MICROPRISMATIC SHEETING STANDARDS (ASTM TYPES IV, VII, VIII, X, OR XI.
3. EACH W1-8 SIGN DESIGNATION SHALL DISPLAY ONE W1-8 SIGN FACING EACH DIRECTION. (LEFT FOR NB, RIGHT FOR SB TRAFFIC) ANY SPECIAL BRACKETS REQUIRED FOR THIS MOUNT SHALL BE CONSIDERED INCIDENTAL TO THE BID PRICE FOR SIGNAGE.
4. GAPS IN WHITE EDGE STRIPING (AS SHOWN) HAVE BEEN EXCLUDED FROM THE QUANTITIES USED AND COMPUTED IN THE BID TABULATION.



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JASON S. DOHRMANN
NUMBER
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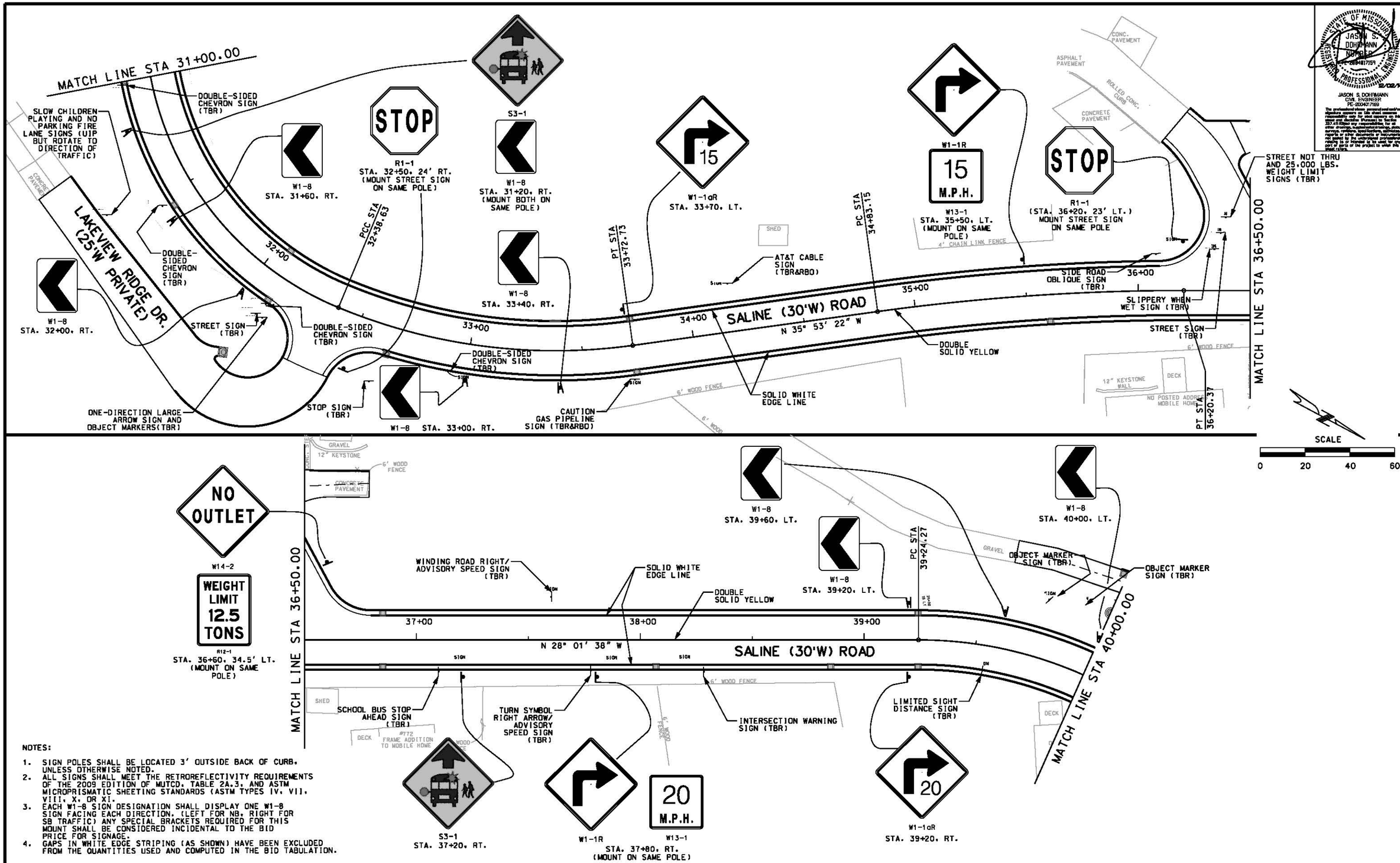
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

STRIPING AND SIGNAGE SHEETS
(Sheet 2 of 5)

SHEET NO.
STR-02



NOTES:

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STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017759
PROFESSIONAL ENGINEER
12/02/14

JASON S. DOHRMANN
CIVIL ENGINEER
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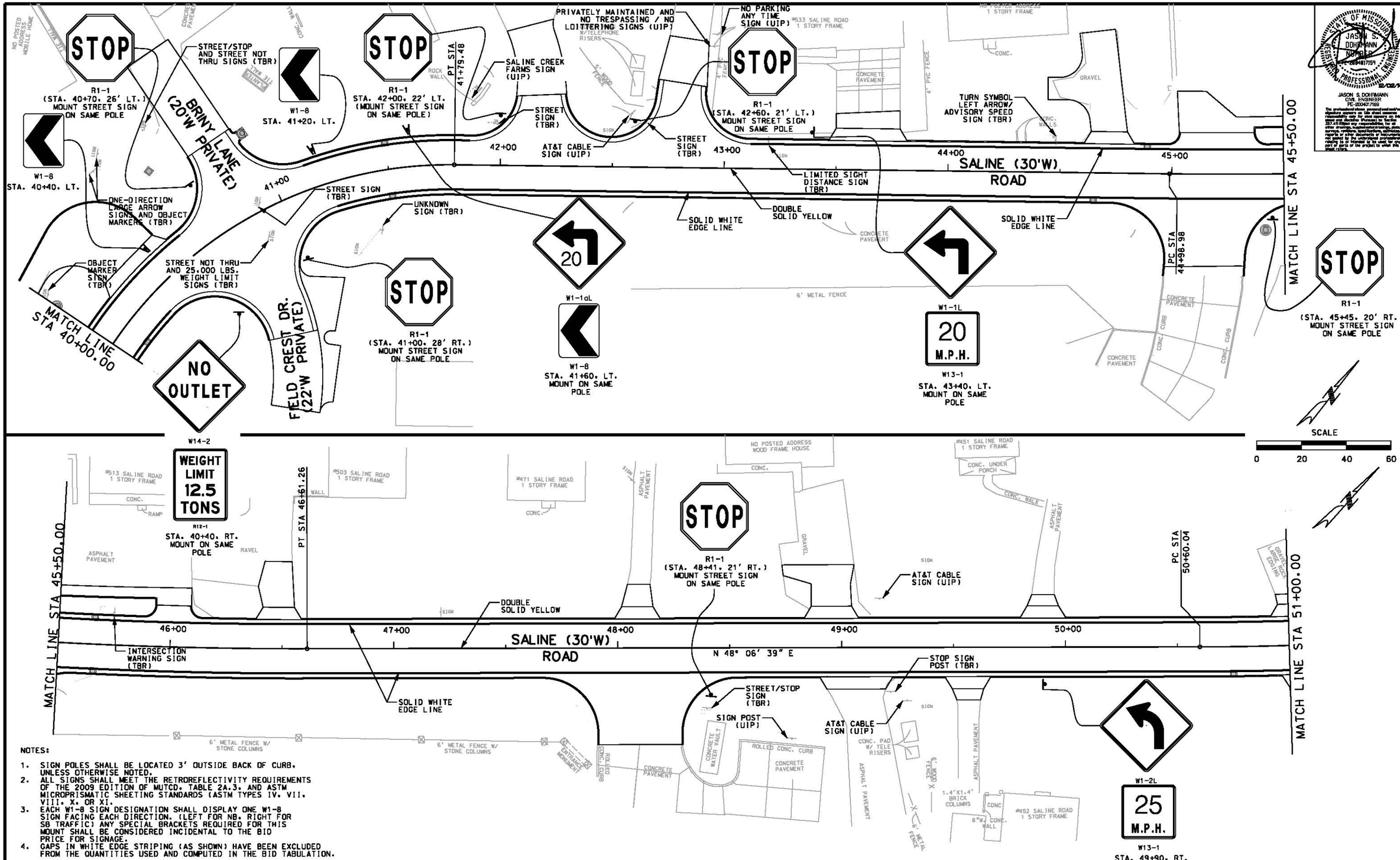
CORPORATE LICENSE #2002006908

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

STRIPING AND SIGNAGE SHEETS
(Sheet 3 of 5)

SHEET NO.
STR-03



NOTES:

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2. ALL SIGNS SHALL MEET THE RETROREFLECTIVITY REQUIREMENTS OF THE 2009 EDITION OF MUTCD, TABLE 2A.3, AND ASTM MICROPRISMATIC SHEETING STANDARDS (ASTM TYPES IV, VII, VIII, X, OR XI.
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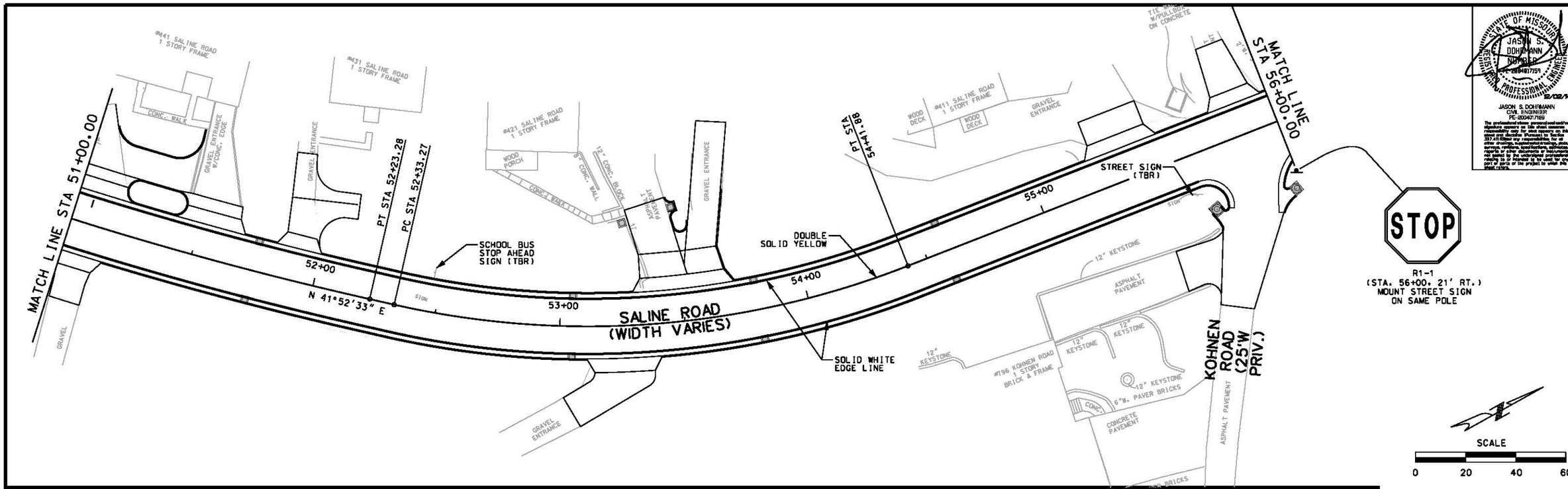
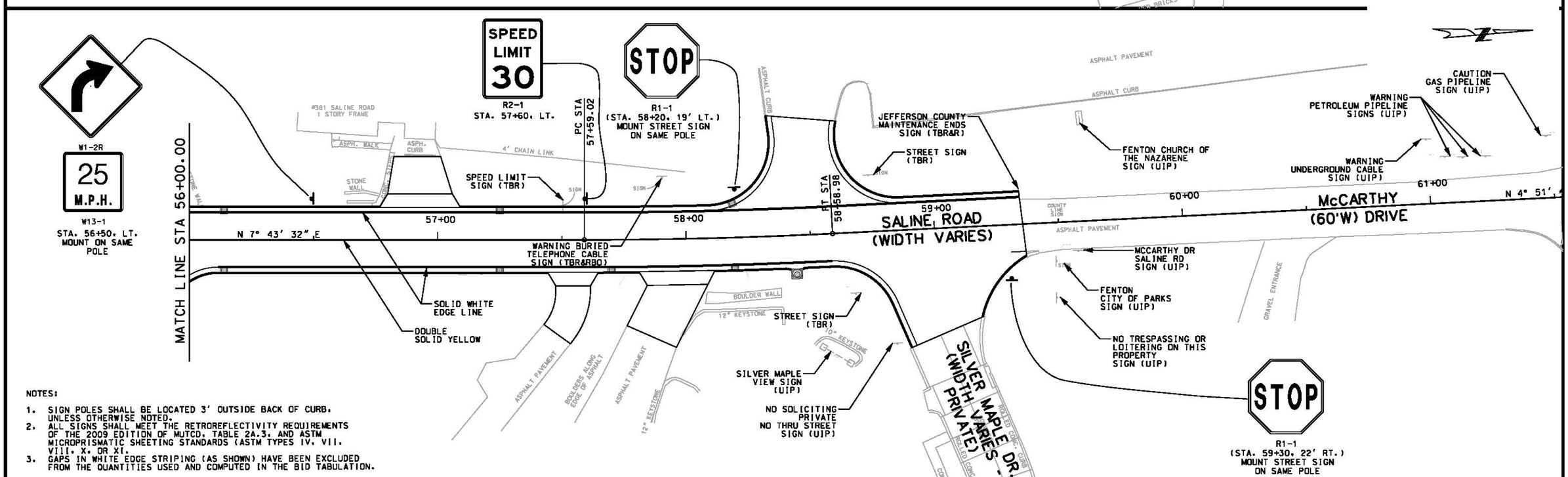
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

STRIPING AND SIGNAGE SHEETS
(Sheet 4 of 5)

SHEET NO.
STR-04
33 of 94





NOTES:

1. SIGN POLES SHALL BE LOCATED 3' OUTSIDE BACK OF CURB, UNLESS OTHERWISE NOTED.
2. ALL SIGNS SHALL MEET THE RETROREFLECTIVITY REQUIREMENTS OF THE 2009 EDITION OF MUTCD, TABLE 2A.3, AND ASTM MICROPRISMATIC SHEETING STANDARDS (ASTM TYPES IV, VII, VIII, X, OR XI.
3. GAPS IN WHITE EDGE STRIPING (AS SHOWN) HAVE BEEN EXCLUDED FROM THE QUANTITIES USED AND COMPUTED IN THE BID TABULATION.

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APPROVED: JSD	JOB NUMBER:	75110022	
CAD DATE: 12/1/2014	4:25:51 PM		
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ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #20020006908

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

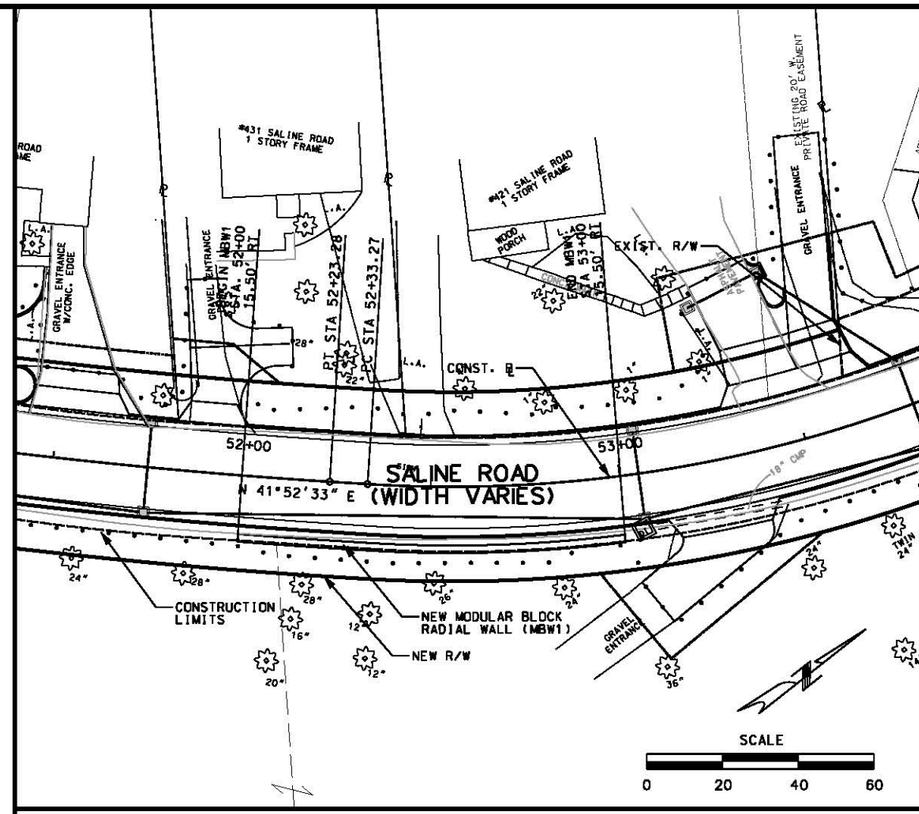
STRIPING AND SIGNAGE SHEETS

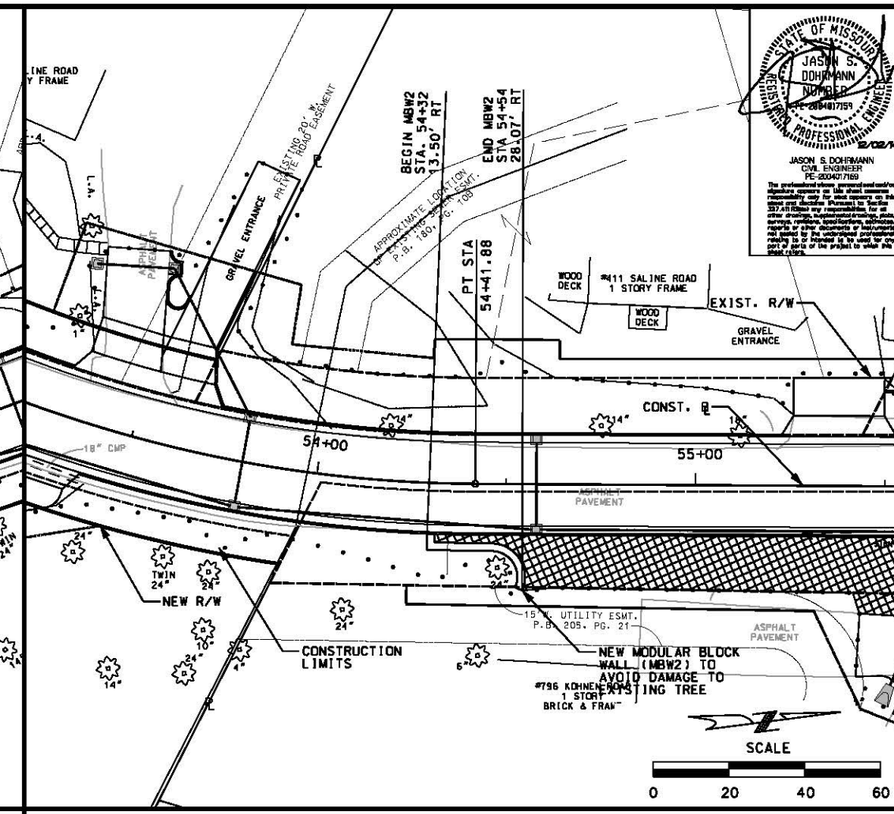
(Sheet 5 of 5)

SHEET NO.
STR-05
34 of 94

GENERAL NOTES:

1. MODULAR BLOCK RETAINING WALLS SHALL MEET THE REQUIREMENTS OF THE CURRENT VERSION OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (MODOT).
2. UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY DATA AND RECORDS. THE OWNER DOES NOT WARRANT THE LOCATION OF THESE FACILITIES AS PRECISE. IT IS POSSIBLE THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBITLITY TO DETERMINE THE EXISTENCE AND PRECISE LOCATION OF ALL FACILITIES AND TO AVOID DAMAGE.
3. ALL STATIONING AND OFFSETS GIVEN FROM SALINE ROAD CENTERLINE TO WALL FACE UNLESS OTHERWISE NOTED.
4. MODULAR BLOCK RETAINING WALL TO BE DESIGNED PER MANUFACTURER'S DETAILS BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI. CONTRACTOR IS REQUIRED TO SUBMIT SEALED WALL DESIGN, INCLUDING ALL PLANS, DESIGN CALCS, SUBSURFACE INFORMATION, (BORING LOGS OR OTHER FACTUAL RECORDS) AND OTHER PERTINENT INFORMATION TO THE ENGINEER OF RECORD FOR REVIEW.
5. "MBW" STANDS FOR MODULAR BLOCK RETAINING WALL.
6. AREA OF WALL TO BE PAID FOR IS AREA OF "FACE AREA EXPOSED" AS SHOWN WITH THE BRICK PATTERN BELOW.





STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER PE-2004017169
PROFESSIONAL ENGINEER
2/02/14
JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017169
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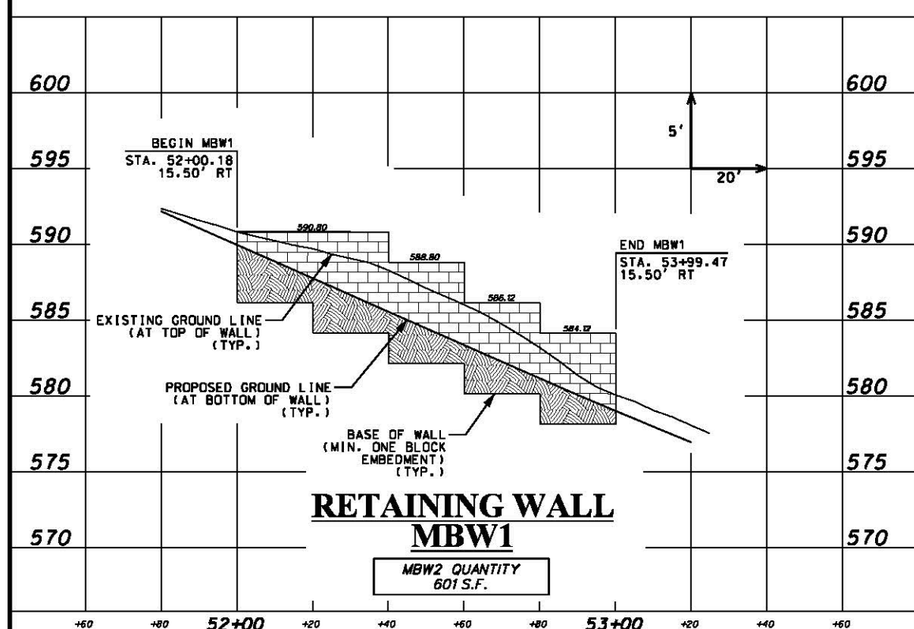
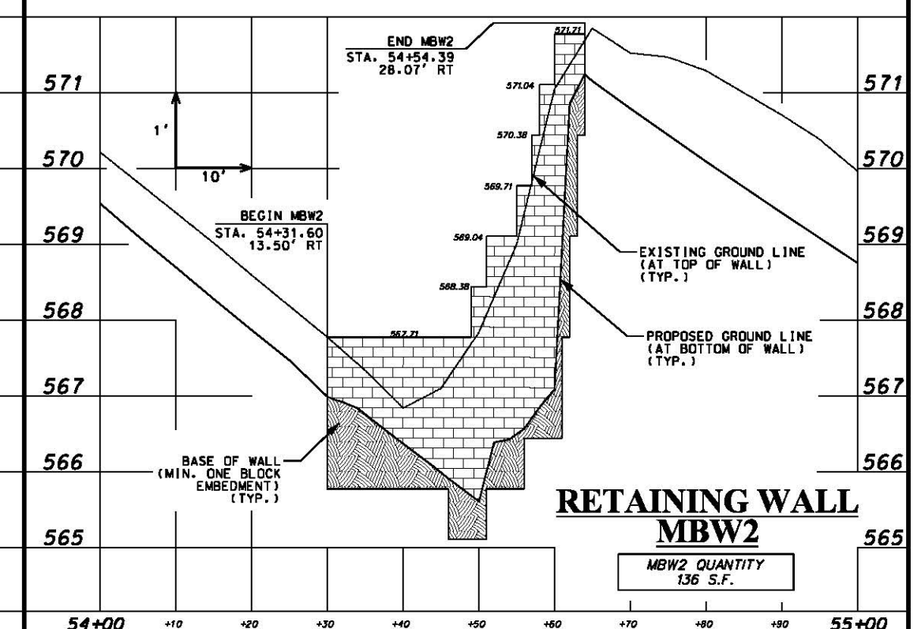


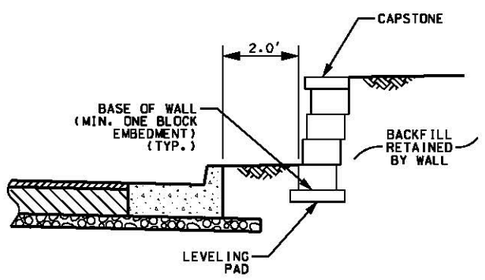
RETAINING WALL MBW1

MBW2 QUANTITY 601 S.F.



RETAINING WALL MBW2

MBW2 QUANTITY 136 S.F.



TYPICAL SECTION THRU WALL

N.T.S.

MBW1 - STA. 52+00.18 to STA. 53+99.47 RT
MBW2 - STA. 54+31.60 to STA. 54+54.39 RT

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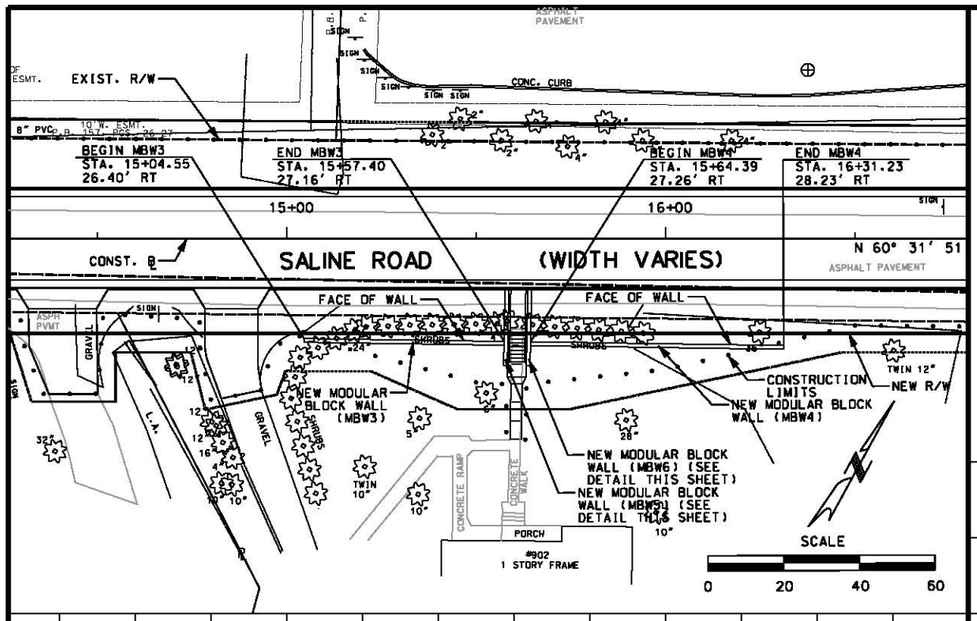
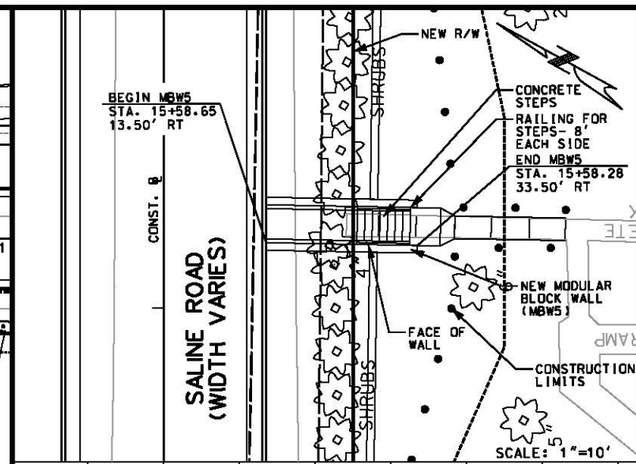
CORPORATE LICENSE #2002006608

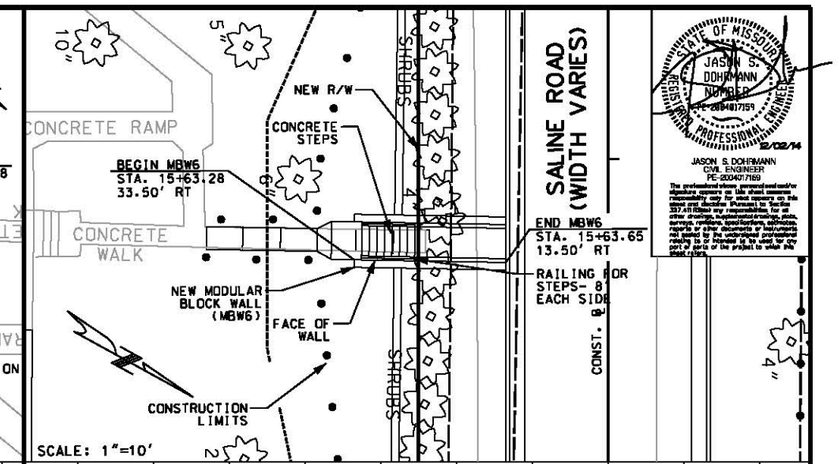
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

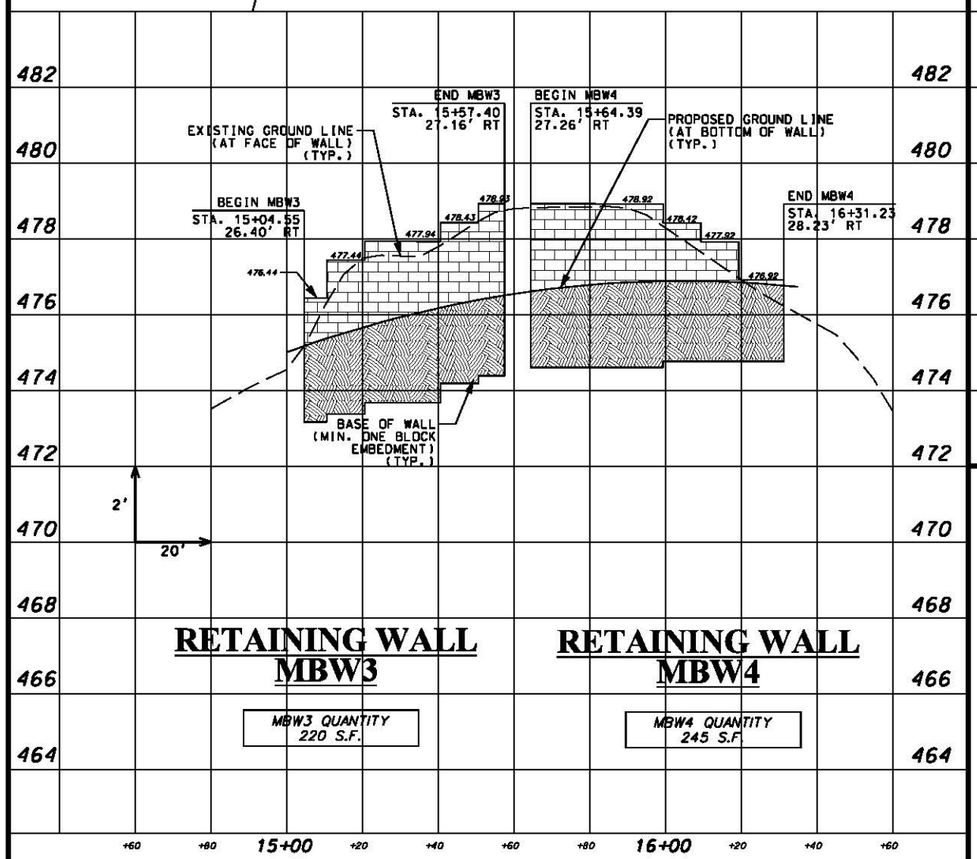
RETAINING WALL DETAILS
MBW 1 & MBW 2
(Sheet 1 of 3)

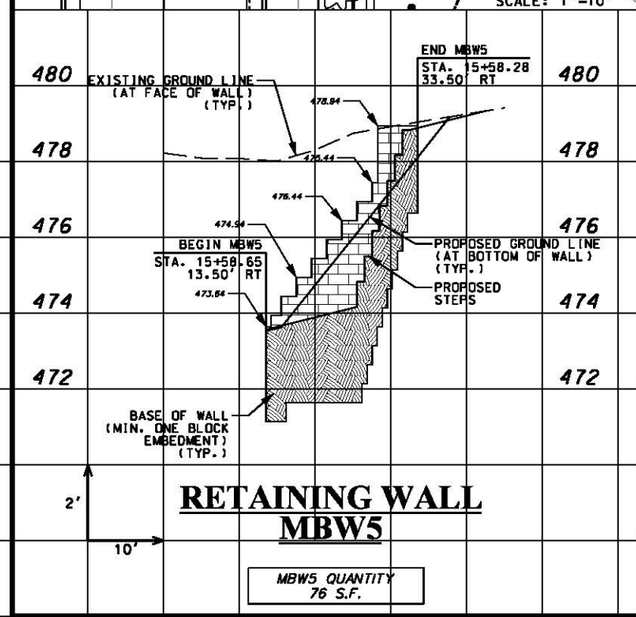
SHEET NO.
WAL-01
35 of 99

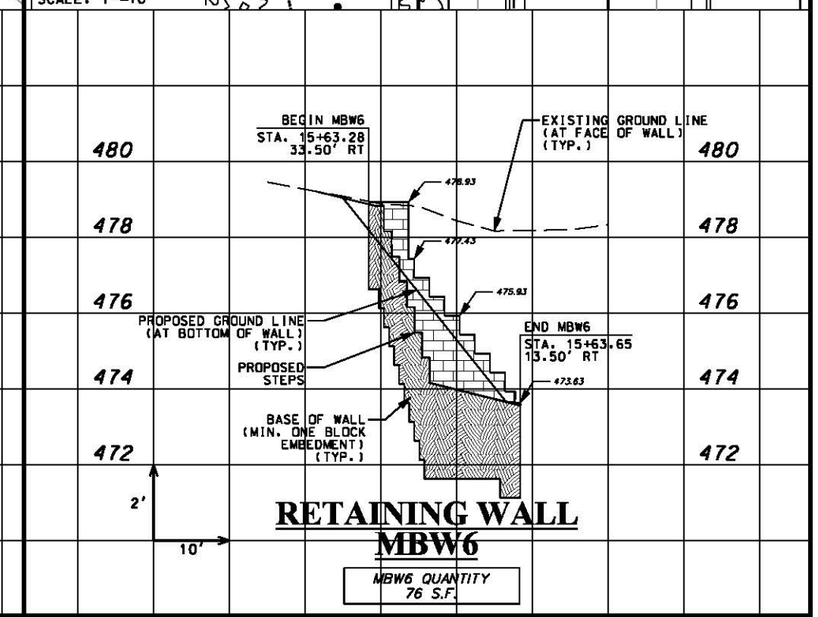












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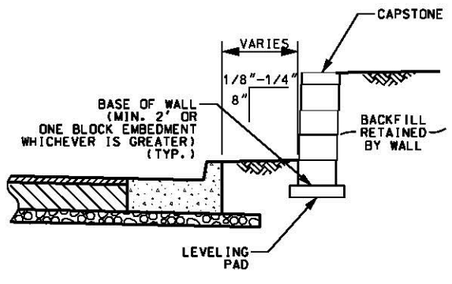
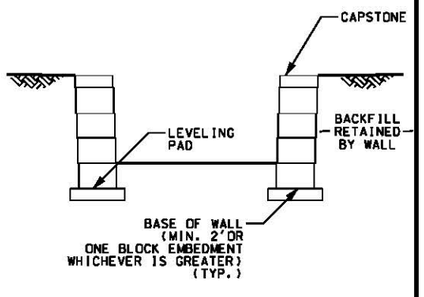


TYPICAL SECTION THRU WALL
N.T.S.
MBW3 - STA. 15+04.55 to STA. 15+57.40 RT
MBW4 - STA. 15+64.39 to STA. 16+31.23 RT



TYPICAL SECTION THRU WALL
N.T.S.
MBW5 - STA. 15+58.65 to STA. 15+58.28 RT
MBW6 - STA. 15+63.28 to STA. 15+63.65 RT

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ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006908

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

RETAINING WALL DETAILS
MBW 3, MBW 4, MBW 5, & MBW 6
(Sheet 2 of 3)

SHEET NO.
WAL-02
36 of 99

GENERAL NOTES:

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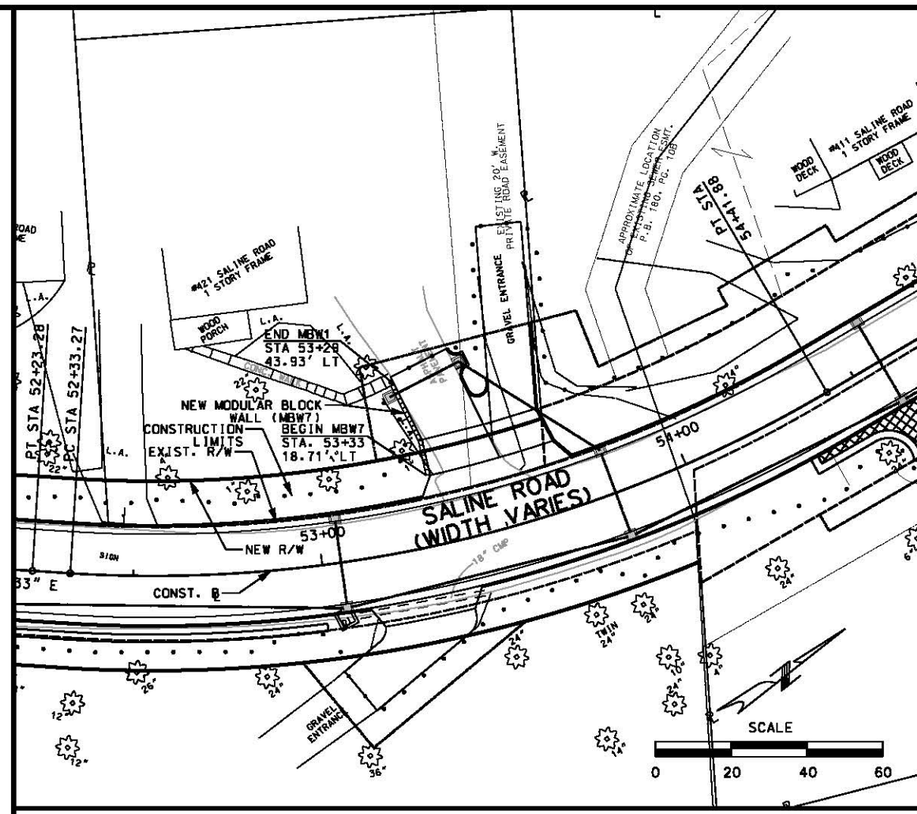

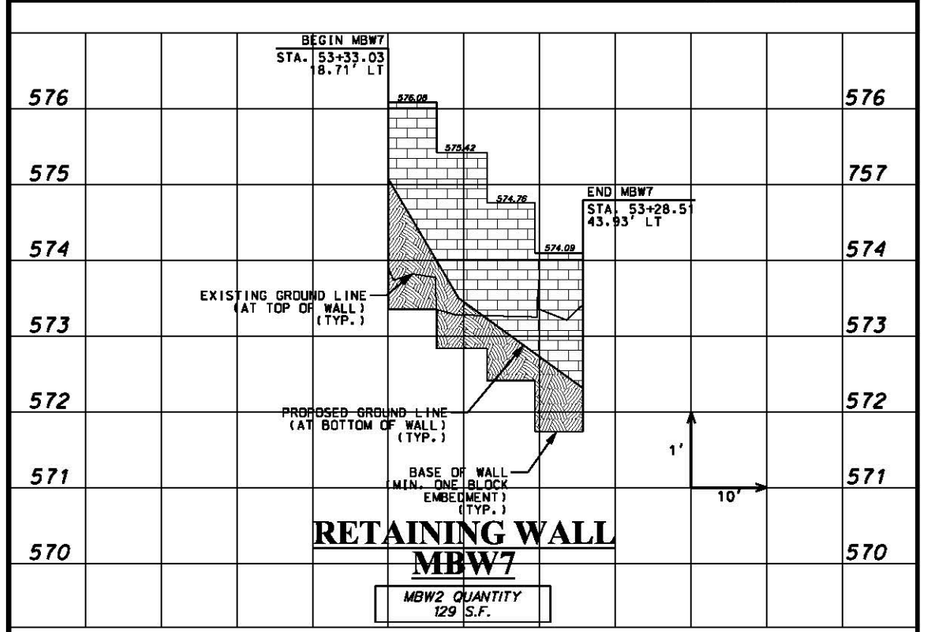

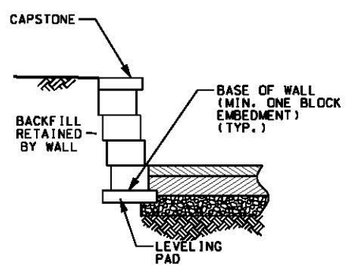

TYPICAL SECTION THRU WALL

N.T.S.

MBW7 - STA. 53+33.03 to STA. 53+28.51 RT

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017169
PROFESSIONAL ENGINEER
2/02/14
JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017169

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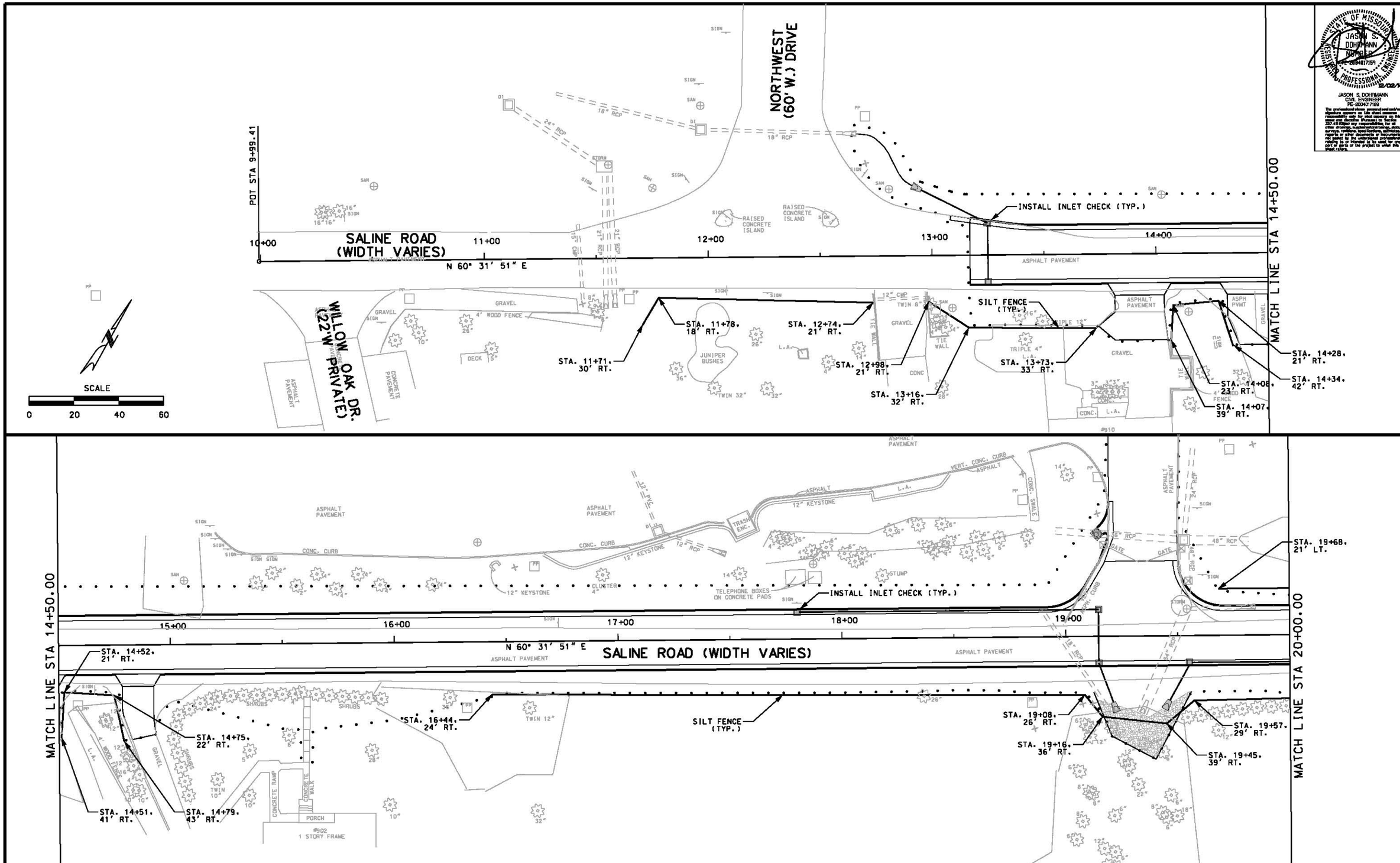
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

RETAINING WALL DETAILS
MBW 7
(Sheet 3 of 3)

SHEET NO.
WAL-03



STATE OF MISSOURI
JASON E. DOHRMANN
NUMBER PE-2004017169
PROFESSIONAL ENGINEER
2/02/14

JASON E. DOHRMANN
CIVIL ENGINEER
PE-2004017169

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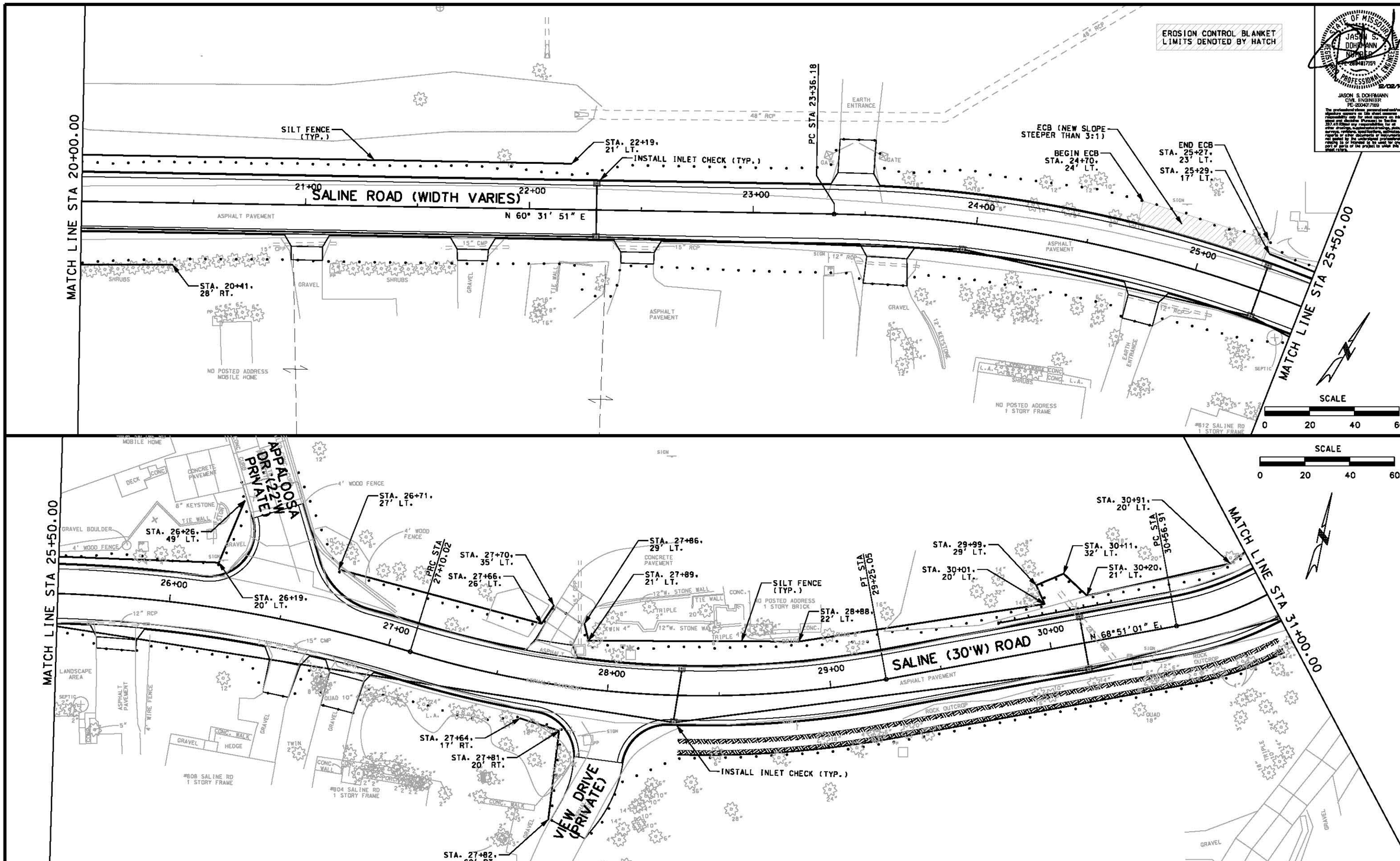
CORPORATE LICENSE #2002006608

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

EROSION CONTROL SHEETS

(Sheet 1 of 5)

SHEET NO.
ERO-01
38 of 94



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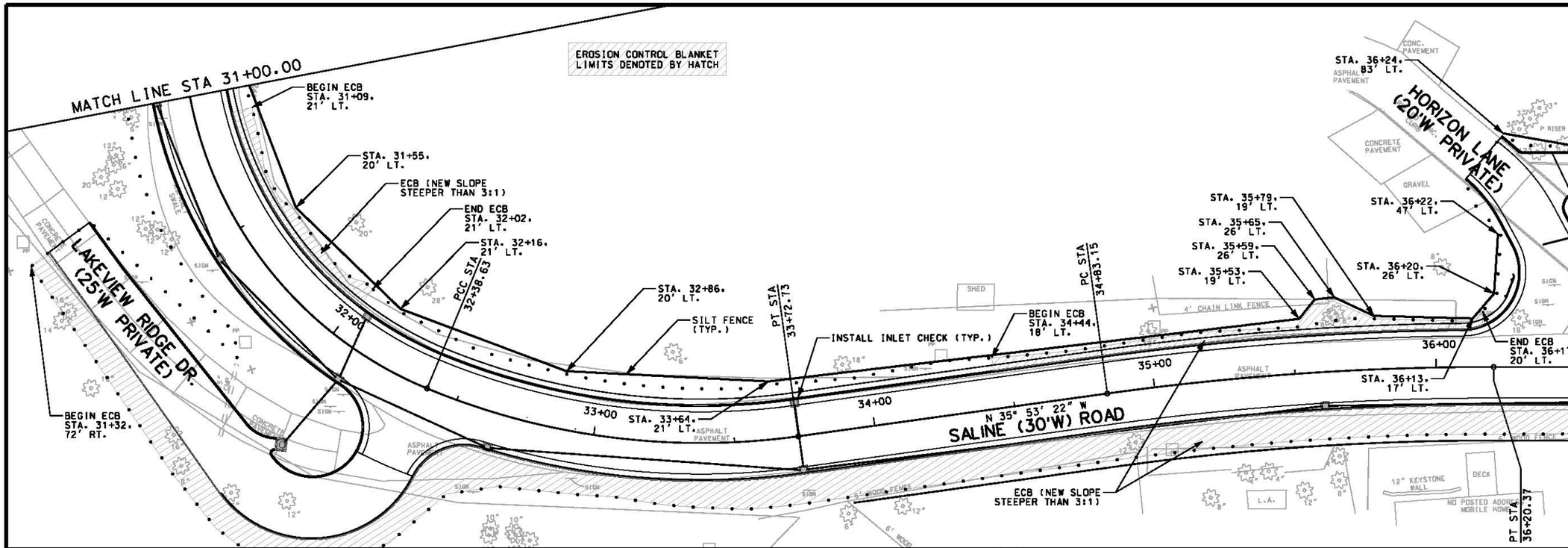
CORPORATE LICENSE #2002006908

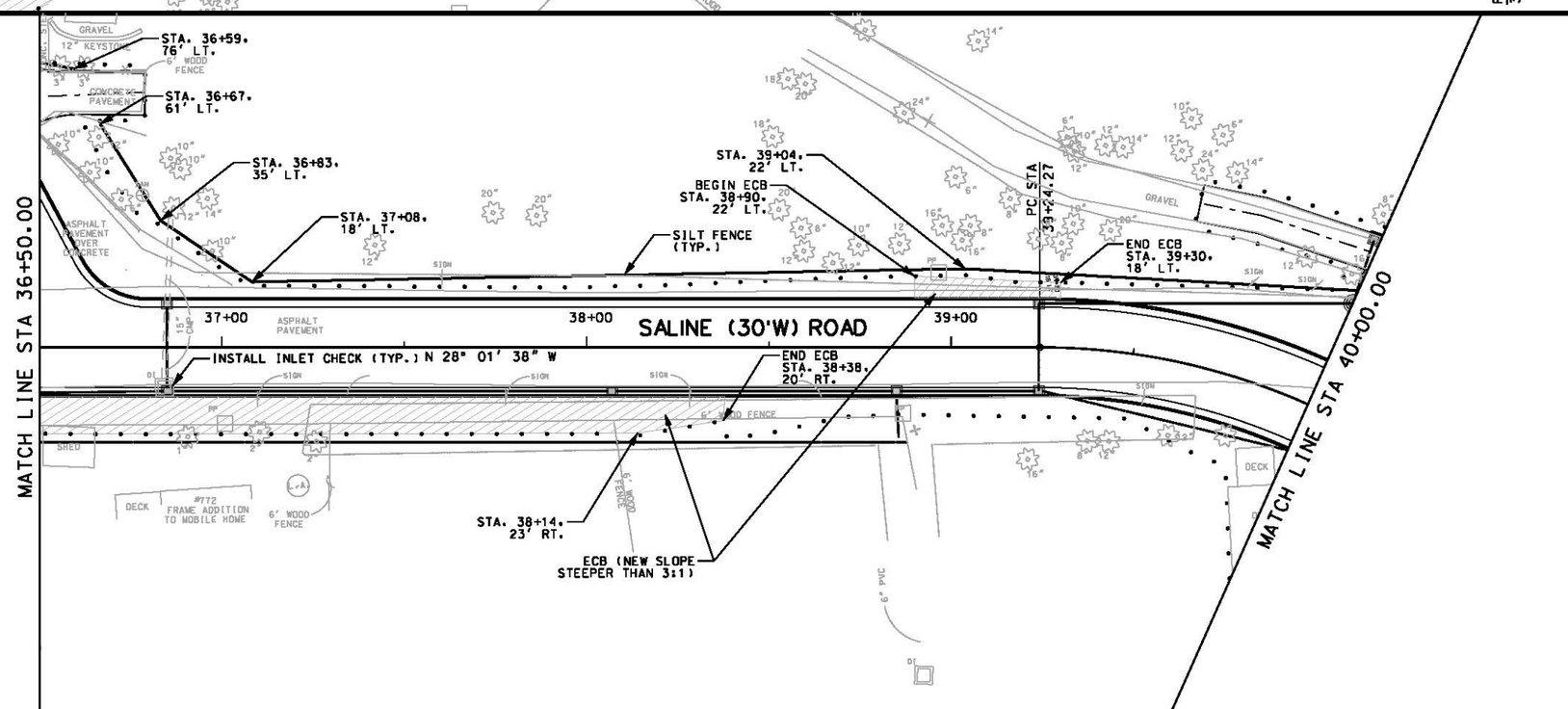
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

EROSION CONTROL SHEETS

(Sheet 2 of 5)

SHEET NO.
ERO-02
39 of 94





STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017159
PROFESSIONAL ENGINEER
12/02/14

JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017159

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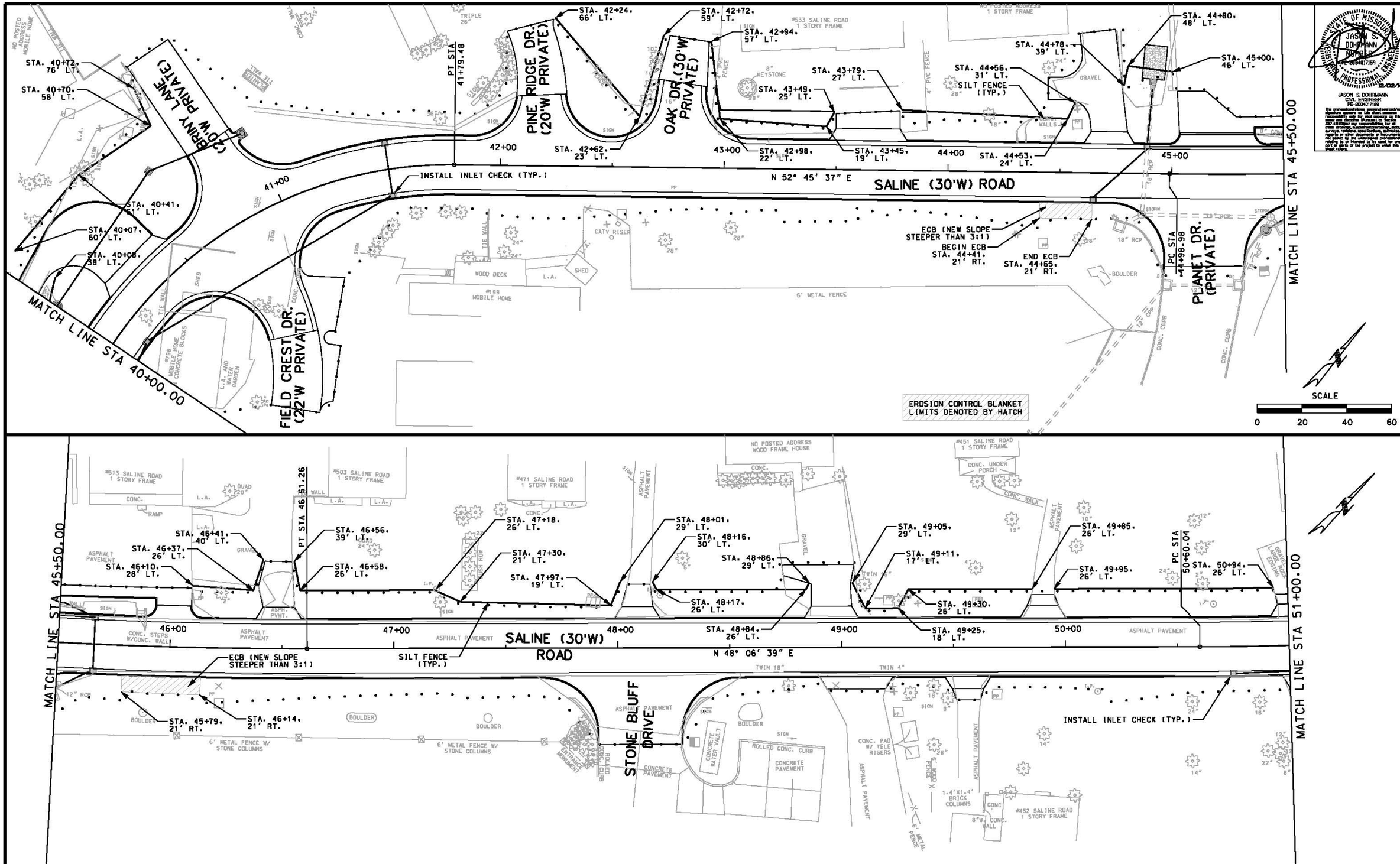
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

EROSION CONTROL SHEETS
(Sheet 3 of 5)

SHEET NO.
ERO-03



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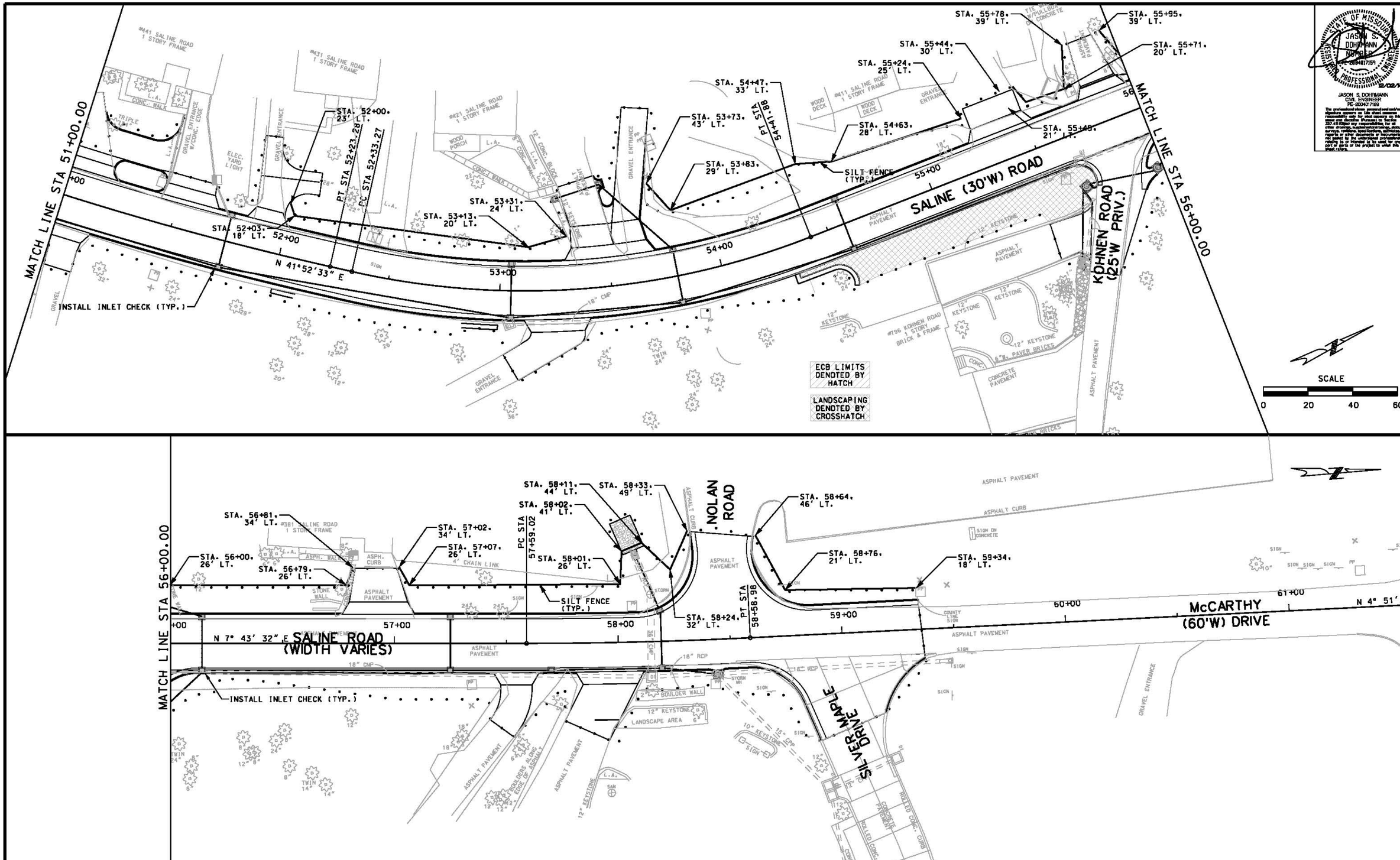
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

EROSION CONTROL SHEETS
(Sheet 4 of 5)

SHEET NO.
ERO-04
41 of 94



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APPROVED: JSD	JOB NUMBER: 75110022		
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5403(642)/TIP#5589-12

EROSION CONTROL SHEETS
(Sheet 5 of 5)

SHEET NO.
ERO-05
42 of 94

GENERAL NOTES

1) THE TEMPORARY PAVEMENT MARKINGS SHALL CONSIST OF PAVEMENT MARKINGS, EITHER BY PAINTING OR BY APPLICATION OF PERFORMED REMOVABLE TAPE, AS A METHOD TO DELINEATE TRAFFIC LANE ON PAVEMENT USED FOR HANDLING TRAFFIC DURING CONSTRUCTION. ON NEW PAVEMENTS OR EXISTING PAVEMENTS THAT ARE TO REMAIN IN PLACE, PREFORMED REMOVABLE TAPE SHALL BE USED. ON PAVEMENTS THAT ARE TO BE OBLITERATED AT THE COMPLETION OF EITHER THE CURRENT PHASE OF CONSTRUCTION AND/OR THE COMPLETION OF EITHER THE CURRENT PHASE OF CONSTRUCTION AND/OR THE COMPLETION OF THE PROJECT, PAVEMENT MARKING SHALL BE USED. THE MARKING PAINT AND/OR TAPE SHALL BE REFLECTORIZED AND BE OF GOOD COMMERCIAL QUALITY, AND BE APPROVED BY THE ENGINEER. ALL PREFORMED MARKING TAPE/OR PAINT USED ON THE PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS EXPENSE AS DIRECTED BY THE ENGINEER. FOR THE PURPOSES OF THE QUANTITY DEVELOPMENT, IT IS ASSUMED THAT ALL LOCATIONS USE PAINT, AND NO DISTINCTION HAS BEEN MADE BETWEEN THE COST OF PAINT AND/OR TAPE. THE COST OF REMOVAL OF THESE ITEMS, IF NECESSARY, WILL BE CONSIDERED TO BE COMPLETELY COVERED BY THE UNIT PRICES BID FOR THE ITEM. ALL PAVEMENT MARKINGS, INCLUDING THOSE EXISTING FROM PREVIOUS TRAFFIC HANDLING PHASES, WHICH CONFLICT WITH NEW MARKINGS BEING APPLIED, SHALL BE OBLITERATED. THE COST OF OBLITERATION WILL BE CONSIDERED INCIDENTAL TO THE ITEM BID FOR TEMPORARY PAVEMENT STRIPING AND REMOVAL.
2) ALL BARRELS USED ON THIS PROJECT SHALL BE FLEXIBLE, NONMETALLIC TRIM LINE CHANNELIZERS.
3) CONTRACTOR FURNISHED SIGNS SHALL BE MAINTAINED AND KEPT CLEAN FOR THE DURATION OF THE PROJECT AND SHALL BE MOUNTED AS SHOWN ON THE MODOT STANDARD DRAWING "TEMPORARY TRAFFIC CONTROL DEVICES" (616.10AD) AND PAYMENT SHALL BE CONSIDERED COMPLETELY COVERED BY THE BID ITEM FOR STANDARD TRAFFIC CONTROL DEVICES.
4) EDGE DROP-OFFS ADJACENT TO THE PAVEMENT (NEW OR TEMPORARY) GREATER THAN 2 INCHES SHALL HAVE EDGE TREATMENT INSTALLED, WHICH SHALL BE CONSTRUCTED OF TYPE 5 AGGREGATE BASE. QUANTITIES HAVE BEEN INCLUDED FOR THE PROJECT. NO PAYMENT WILL BE MADE FOR THE REMOVAL OF THE TYPE 5 AGGREGATE BASE MATERIAL. THE CONTRACTOR SHALL, AT THE END OF EACH DAY'S WORK, PROVIDE THE TREATMENT AS STATED ABOVE FOR EACH PHASE OF WORK, OR AS DIRECTED BY THE ENGINEER.
5) THE CONTRACTOR (AT HIS EXPENSE) SHALL CONSTRUCT ALL DRIVEWAYS IN A MANNER WHICH PROVIDES ACCESS TO EACH PROPERTY AT ALL TIMES. THIS INCLUDES STAGED DRIVEWAY CONSTRUCTION, TEMPORARY ROCK ACCESS, OR OTHER MEANS.
6) PROPER TRAFFIC CONTROL DEVICES AND FLAGGERS SHALL BE IN PLACE PRIOR TO THE INSTALLATION OF STORM SEWER PIPE WHICH CROSS ACTIVE TRAFFIC LANES. THE CONTRACTOR SHALL HAVE A REPRESENTATIVE ON SITE TO MONITOR ALL CROSSINGS, 24 HOURS A DAY AND 7 DAYS A WEEK, UNTIL A STABLE TEMPORARY HARD SURFACE IS ESTABLISHED. THE CONTRACTOR'S REPRESENTATIVE SHALL BE CAPABLE TO MAKE ANY REPAIRS TO THE CROSSINGS, WHICH MAY DAMAGE VEHICLES.
7) TEMPORARY TRAFFIC BARRIER TO CONFORM TO ST. LOUIS COUNTY STANDARD DRAWING C617.00.

PHASE 1A

1) INSTALL TRAFFIC CONTROL AND EROSION CONTROL DEVICES AS SHOWN OR DIRECTED BY THE ENGINEER.
2) PERFORM CLEARING AND GRUBBING THROUGHOUT PROJECT LIMITS.
3) PERFORM GRADING AND ROCK EXCAVATION FOR TEMPORARY PAVEMENT.
4) INSTALL TEMPORARY PAVEMENT AND TEMPORARY DRAINAGE PIPES AS SHOWN.
5) INSTALL TRAFFIC CONTROL DEVICES AND SIGNAGE FOR DETOUR. SWITCH NORTHBOUND TRAFFIC TO TEMPORARY PAVEMENT AND CLOSE ROADWAY TO SOUTHBOUND TRAFFIC.
6) CONSTRUCT STORM SEWER PIPES AND STRUCTURES FROM:
   CI 111 TO GI 110
   GI 13 TO APPROX. 16 FEET DOWNSTREAM OF GI 13
   GI 23 TO FES 20
   GI 38 TO APPROX. 14 FEET DOWNSTREAM OF GI 38
   GI 39 TO APPROX. 14 FEET DOWNSTREAM OF GI 39
   GI 40 TO APPROX. 14 FEET DOWNSTREAM OF GI 40
   GI 41 TO APPROX. 14 FEET DOWNSTREAM OF GI 41
7) PERFORM REMOVALS AND EARTHWORK
8) CONSTRUCT CURB AND GUTTERS BETWEEN STA 13+17 TO 31+50 LT: CONSTRUCT TYPE X BITUMINOUS CONCRETE BASE COURSE, SIDE STREET PAVEMENT, DRIVEWAYS AND MISCELLANEOUS ITEMS AS SHOWN BETWEEN STA 13+17 TO 32+00 LT.
9) CONSTRUCT SUNPARK DRIVE AND APPALOOSA DRIVE PAVEMENT STAGED SO THAT TRAFFIC IS NOT INTERRUPTED.
10) INSTALL PERMANENT OR TEMPORARY VEGETATION AS DIRECTED BY THE ENGINEER.

PHASE 1B

1) INSTALL EROSION CONTROL DEVICES AS SHOWN OR DIRECTED BY THE ENGINEER.
2) PERFORM GRADING FOR TEMPORARY PAVEMENT.
3) INSTALL TEMPORARY PAVEMENT AS SHOWN.
4) INSTALL TRAFFIC CONTROL DEVICES AND SHIFT TRAFFIC TO NEW LANE CONFIGURATION.
5) CONSTRUCT STORM SEWER PIPES AND STRUCTURES FROM:
   FES 10 TO APPROX. 8 FEET UPSTREAM OF GI 12
   FES 30 TO GI 52
   GI 32 TO APPROX. 8 FEET UPSTREAM OF GI 32
   GI 34 TO APPROX. 8 FEET UPSTREAM OF GI 34
   GI 35 TO APPROX. 8 FEET UPSTREAM OF GI 35
   GI 36 TO APPROX. 8 FEET UPSTREAM OF GI 36
6) PERFORM REMOVALS AND EARTHWORK.
7) CONSTRUCT CURB AND GUTTERS BETWEEN STA 13+17 TO 31+80 RT: CONSTRUCT TYPE X BITUMINOUS CONCRETE BASE COURSE, SIDE STREET PAVEMENT, DRIVEWAYS, RETAINING WALLS, AND MISCELLANEOUS ITEMS AS SHOWN BETWEEN STA 11+59 TO 32+00 RT.
8) CONSTRUCT VIEW DRIVE PAVEMENT STAGED SO THAT TRAFFIC IS NOT INTERRUPTED.
9) INSTALL PERMANENT OR TEMPORARY VEGETATION AS DIRECTED BY THE ENGINEER.
10) CONSTRUCT TYPE C BITUMINOUS CONCRETE WEARING COURSE BETWEEN STA 13+17 TO 31+00 LT AND RT.
11) INSTALL PERMANENT PAVEMENT MARKINGS AND SIGNAGE BETWEEN STA 10+00 TO 31+00 LT AND RT.

PHASE 2A

1) INSTALL TRAFFIC CONTROL AND EROSION CONTROL DEVICES AS SHOWN OR DIRECTED BY THE ENGINEER.
2) PERFORM GRADING FOR TEMPORARY PAVEMENT.
3) INSTALL TEMPORARY PAVEMENT AS SHOWN.
4) INSTALL TRAFFIC CONTROL DEVICES AND SIGNAGE FOR DETOUR. SWITCH NORTHBOUND TRAFFIC TO TEMPORARY PAVEMENT AND CLOSE ROADWAY TO SOUTHBOUND TRAFFIC.
5) CONSTRUCT STORM SEWER PIPES AND STRUCTURES FROM:
   GI 52 TO APPROX. 14 FEET UPSTREAM FROM GI 52
   CI 56 TO GI 52
   GI 52 TO APPROX. 14 FEET UPSTREAM FROM GI 48
   GI 54 TO APPROX. 14 FEET UPSTREAM FROM GI 54
   GI 62 TO APPROX. 14 FEET UPSTREAM FROM GI 62
   GI 46 TO APPROX. 14 FEET UPSTREAM FROM GI 46
6) PERFORM REMOVALS AND EARTHWORK.
7) CONSTRUCT CURB AND GUTTERS BETWEEN STA 32+00 TO 43+00 RT: CONSTRUCT TYPE X BITUMINOUS CONCRETE BASE COURSE, SIDE STREET PAVEMENT, DRIVEWAYS AND MISCELLANEOUS ITEMS AS SHOWN BETWEEN STA 32+00 TO 41+15 RT, 39+87 TO 41+15 LT , AND 41+45 TO 43+50 RT.
8) INSTALL PERMANENT OR TEMPORARY VEGETATION AS DIRECTED BY THE ENGINEER.

PHASE 2B

1) PERFORM GRADING FOR TEMPORARY PAVEMENT.
2) INSTALL TEMPORARY PAVEMENT AS SHOWN.
3) INSTALL TRAFFIC CONTROL DEVICES AND SHIFT TRAFFIC TO NEW LANE CONFIGURATION.
4) PERFORM REMOVALS AND EARTHWORK.
5) CONSTRUCT CURB AND GUTTERS, TYPE X BITUMINOUS CONCRETE BASE COURSE, SIDE STREET PAVEMENT, DRIVEWAYS, AND MISCELLANEOUS ITEMS AS SHOWN BETWEEN STA 41+15 TO 41+45 RT AND AREA SHOWN ON FIELD CREST DRIVE.
6) INSTALL PERMANENT OR TEMPORARY VEGETATION AS DIRECTED BY THE ENGINEER.

PHASE 2C

1) INSTALL EROSION CONTROL DEVICES AS SHOWN OR DIRECTED BY THE ENGINEER.
2) PERFORM GRADING FOR TEMPORARY PAVEMENT.
3) INSTALL TEMPORARY PAVEMENT AS SHOWN.
4) INSTALL TRAFFIC CONTROL DEVICES AND SHIFT TRAFFIC TO NEW LANE CONFIGURATION.
5) CONSTRUCT STORM SEWER PIPES AND STRUCTURES FROM:
   GI 51 TO APPROX. 8 FEET DOWNSTREAM OF GI 51
   GI 57 TO APPROX. 8 FEET DOWNSTREAM OF GI 57
   GI 61 TO APPROX. 8 FEET DOWNSTREAM OF GI 61
   GI 45 TO APPROX. 8 FEET DOWNSTREAM OF GI 45
   GI 49 TO APPROX. 8 FEET DOWNSTREAM OF GI 49
6) PERFORM REMOVALS AND EARTHWORK.
7) CONSTRUCT CURB AND GUTTERS BETWEEN STA 31+80 TO 32+00 RT AND STA 31+50 TO 43+50 LT: CONSTRUCT TYPE X BITUMINOUS CONCRETE BASE COURSE, SIDE STREET PAVEMENT, DRIVEWAYS, RETAINING WALLS, AND MISCELLANEOUS ITEMS AS SHOWN BETWEEN STA 32+00 TO 43+50 LT AND AREA SHOWN ON LAKEVIEW RIDGE DRIVE.
8) CONSTRUCT HORIZON LANE, BRINY LANE, PINE RIDGE DRIVE, AND OAK DRIVE PAVEMENT STAGED SO THAT TRAFFIC IS NOT INTERRUPTED.
9) INSTALL PERMANENT OR TEMPORARY VEGETATION AS DIRECTED BY THE ENGINEER.
10) CONSTRUCT TYPE C BITUMINOUS CONCRETE WEARING COURSE BETWEEN STA 31+00 TO 42+85 LT AND RT.
11) INSTALL PERMANENT PAVEMENT MARKINGS BETWEEN STA 31+00 TO 42+85 LT AND RT.

PHASE 3A

1) INSTALL TRAFFIC CONTROL AND EROSION CONTROL DEVICES AS SHOWN OR DIRECTED BY THE ENGINEER.
2) PERFORM GRADING FOR TEMPORARY PAVEMENT.
3) INSTALL TEMPORARY PAVEMENT AS SHOWN.
4) INSTALL TRAFFIC CONTROL DEVICES AND SIGNAGE FOR DETOUR. SWITCH NORTHBOUND TRAFFIC TO TEMPORARY PAVEMENT AND CLOSE ROADWAY TO SOUTHBOUND TRAFFIC.
5) CONSTRUCT STORM SEWER PIPES AND STRUCTURES FROM:
   MH 74 TO FES 70 (PLATE AND COVER GI 73)
   GI 71 TO APPROX. 22 FEET UPSTREAM OF GI 71
   GI 100 TO APPROX. 14 FEET DOWNSTREAM OF GI 100
   GI 99 TO APPROX. 14 FEET DOWNSTREAM OF GI 99
   GI 98 TO APPROX. 14 FEET DOWNSTREAM OF GI 98
   GI 97 TO APPROX. 14 FEET DOWNSTREAM OF GI 97
   GI 93 TO APPROX. 14 FEET DOWNSTREAM OF GI 93
   GI 92 TO APPROX. 14 FEET DOWNSTREAM OF GI 92
6) PERFORM REMOVALS AND EARTHWORK.
7) USE EXISTING 36 INCH RCP AT 58+25 IN PLACE TO PROVIDE DRAINAGE FOR WEST SIDE OF ROADWAY.
8) CONSTRUCT CURB AND GUTTERS BETWEEN STA 43+00 TO 58+07 LT AND STA 58+23 TO 59+35.60 LT: CONSTRUCT TYPE X BITUMINOUS CONCRETE BASE COURSE, SIDE STREET PAVEMENT, DRIVEWAYS AND MISCELLANEOUS ITEMS AS SHOWN BETWEEN STA 43+00 TO 58+07 LT AND STA 58+27 TO 59+35.60.
9) INSTALL PERMANENT OR TEMPORARY VEGETATION AS DIRECTED BY THE ENGINEER.

PHASE 3B

1) INSTALL EROSION CONTROL DEVICES AS SHOWN OR DIRECTED BY THE ENGINEER.
2) PERFORM GRADING FOR TEMPORARY PAVEMENT.
3) INSTALL TEMPORARY PAVEMENT AS SHOWN.
4) INSTALL TRAFFIC CONTROL DEVICES AND SHIFT TRAFFIC TO NEW LANE CONFIGURATION.
5) CONSTRUCT STORM SEWER PIPES AND STRUCTURES FROM:
   GI 75 TO APPROX. 11 DOWNSTREAM OF GI 75
   GI 90 TO FES 80
   GI 89 TO APPROX. 8 FEET UPSTREAM OF GI 89
   GI 88 TO APPROX. 8 FEET UPSTREAM OF GI 88
   GI 87 TO APPROX. 8 FEET UPSTREAM OF GI 87
   GI 86 TO APPROX. 8 FEET UPSTREAM OF GI 86
   GI 85 TO APPROX. 8 FEET UPSTREAM OF GI 85
   GI 84 TO APPROX. 8 FEET UPSTREAM OF GI 84
   CI 91 TO GI 92
6) PERFORM REMOVALS AND EARTHWORK.
7) CONSTRUCT CURB AND GUTTERS BETWEEN 43+00 TO 59+35.60 RT: CONSTRUCT TYPE X BITUMINOUS CONCRETE BASE COURSE, SIDE STREET PAVEMENT, DRIVEWAYS, RETAINING WALLS, AND MISCELLANEOUS ITEMS AS SHOWN BETWEEN STA 43+50 TO 59+35.60 RT.
8) CONSTRUCT STONE BLUFF DRIVE (NORTH) AND STONE BLUFF DRIVE (SOUTH), KOHNEN ROAD, AND SILVER MAPLE PAVEMENT SO THAT TRAFFIC IS NOT INTERRUPTED. THE RECONSTRUCTION OF STONE BLUFF DRIVE (NORTH) AND STONE BLUFF (SOUTH) SHALL NOT OCCUR CONCURRENTLY.
9) INSTALL PERMANENT OR TEMPORARY VEGETATION AS DIRECTED BY THE ENGINEER.

PHASE 3C

1) INSTALL TRAFFIC CONTROL DEVICES AND SHIFT TRAFFIC TO NEW LANE CONFIGURATION.
2) CONSTRUCT CURB AND GUTTERS BETWEEN TO STA 58+07 TO 58+23 LT: CONSTRUCT TYPE X BITUMINOUS CONCRETE BASE COURSE, AND MISCELLANEOUS ITEMS AS SHOWN BETWEEN STA 58+07 TO 58+27 LT.
3) INSTALL PERMANENT DR TEMPORARY VEGETATION AS DIRECTED BY THE ENGINEER.
4) CONSTRUCT TYPE C BITUMINOUS CONCRETE WEARING COURSE BETWEEN STA 42+85 TO 59+35.60 LT AND RT.
5) INSTALL PERMANENT PAVEMENT MARKINGS BETWEEN STA 42+85 TO 59+35.60 LT AND RT.

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
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PROFESSIONAL ENGINEER
2/02/14
JASON S. DOHRMANN
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PE-2004017169
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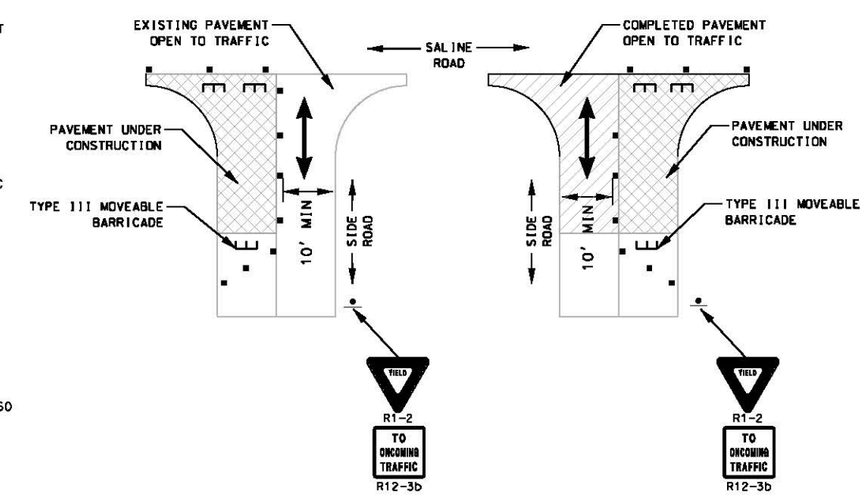
SIDE STREET STAGING DETAIL



FIRST STAGE

SECOND STAGE

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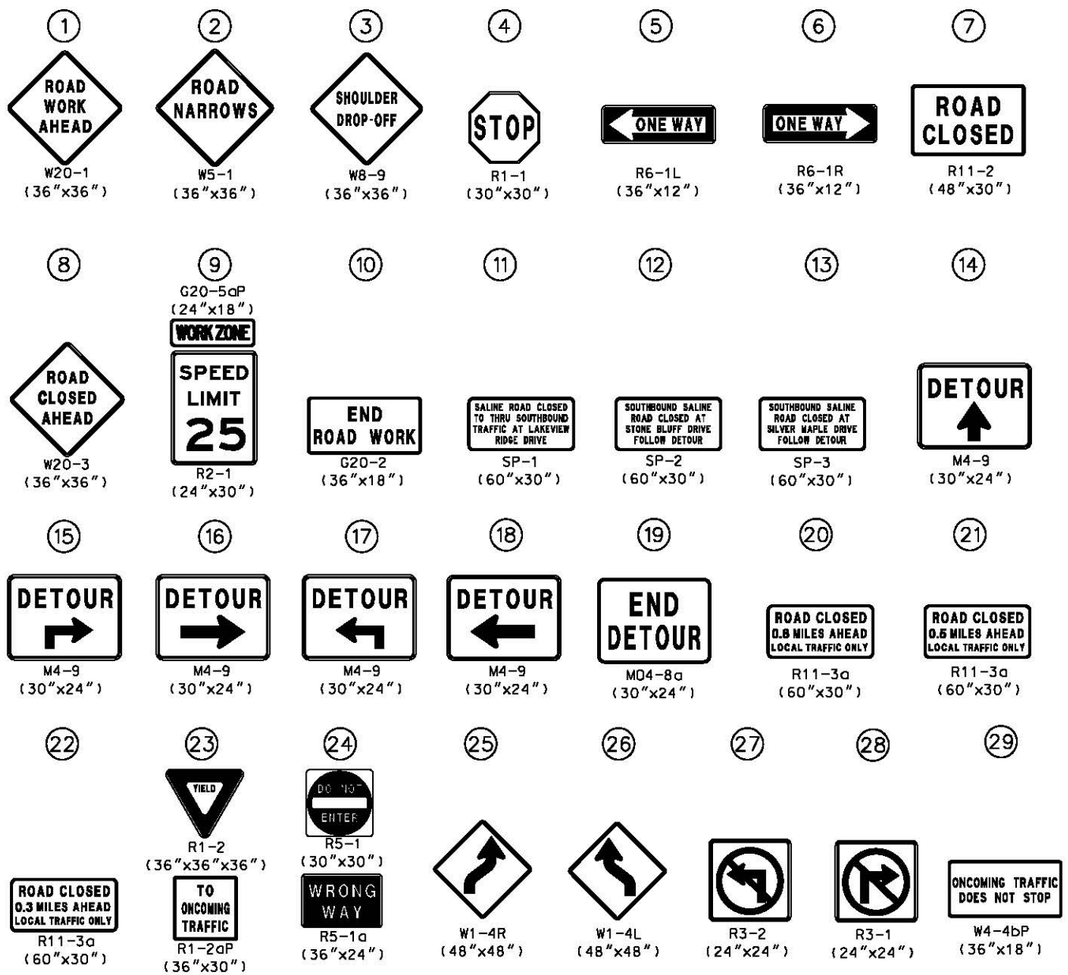
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

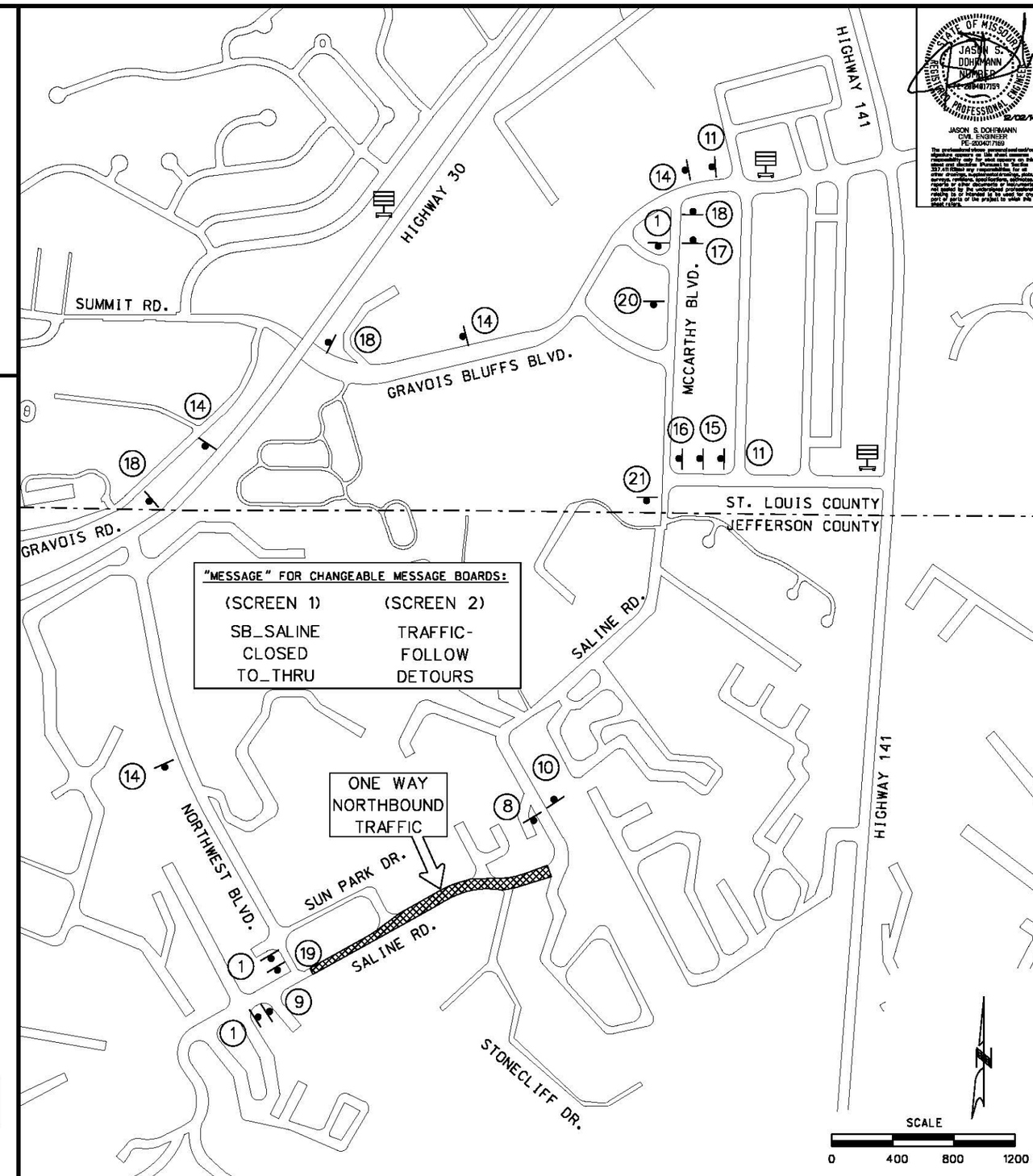
TRAFFIC CONTROL PLANS
PHASING NOTES AND DETAILS
(Sheet 1 of 20)

SHEET NO.
TCP-01

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- CHANNELIZER
- MOVEABLE BARRICADE (MB)
- CHANGEABLE MESSAGE BOARD
- EXISTING PAVEMENT UTILIZED AS MAINLINE TRAVELWAY
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT (6" BITUMINOUS BASE ON ROLLED SUBBASE. SEE JOB SPECIAL PROVISIONS FOR CONTRACTOR REQUIREMENTS WITH RESPECT TO MAINTENANCE)
- TEMPORARY TRAFFIC BARRIER





"MESSAGE" FOR CHANGEABLE MESSAGE BOARDS:

(SCREEN 1)	(SCREEN 2)
SB_SALINE CLOSED TO_THRU	TRAFFIC- FOLLOW DETOURS

STATE OF MISSOURI JASON S. DOHRMANN NUMBER PE-2004017759 REGISTERED PROFESSIONAL ENGINEER 2/02/14

JASON S. DOHRMANN
CIVIL ENGINEER
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COUNTY OF JEFFERSON, MISSOURI
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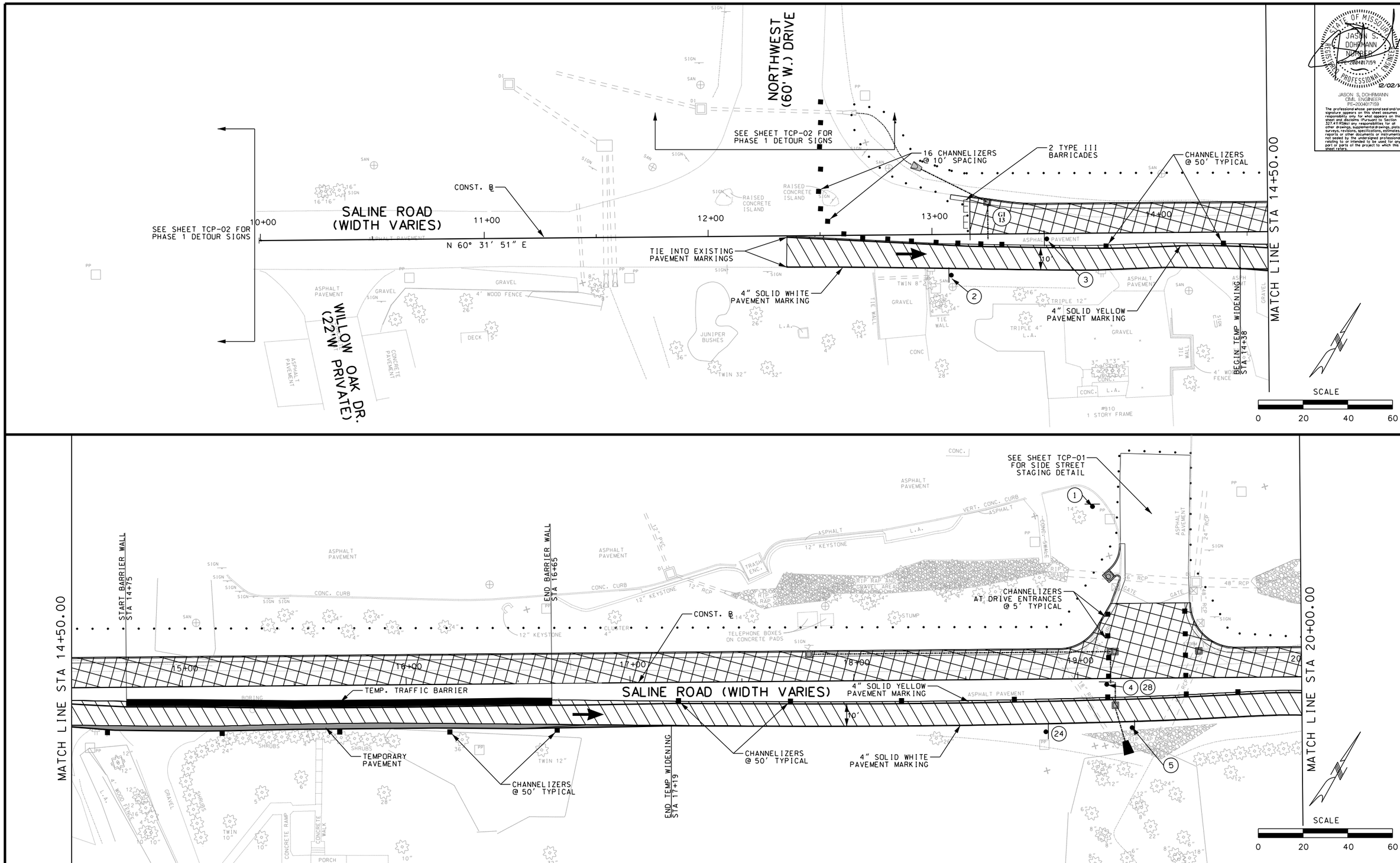
TRAFFIC CONTROL PLANS
DETOUR SIGNS - PHASE 1
(Sheet 2 of 20)

SHEET NO.
TCP-02



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JASON S. DOHRMANN
NUMBER
PE-2004017159
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COUNTY OF JEFFERSON, MISSOURI
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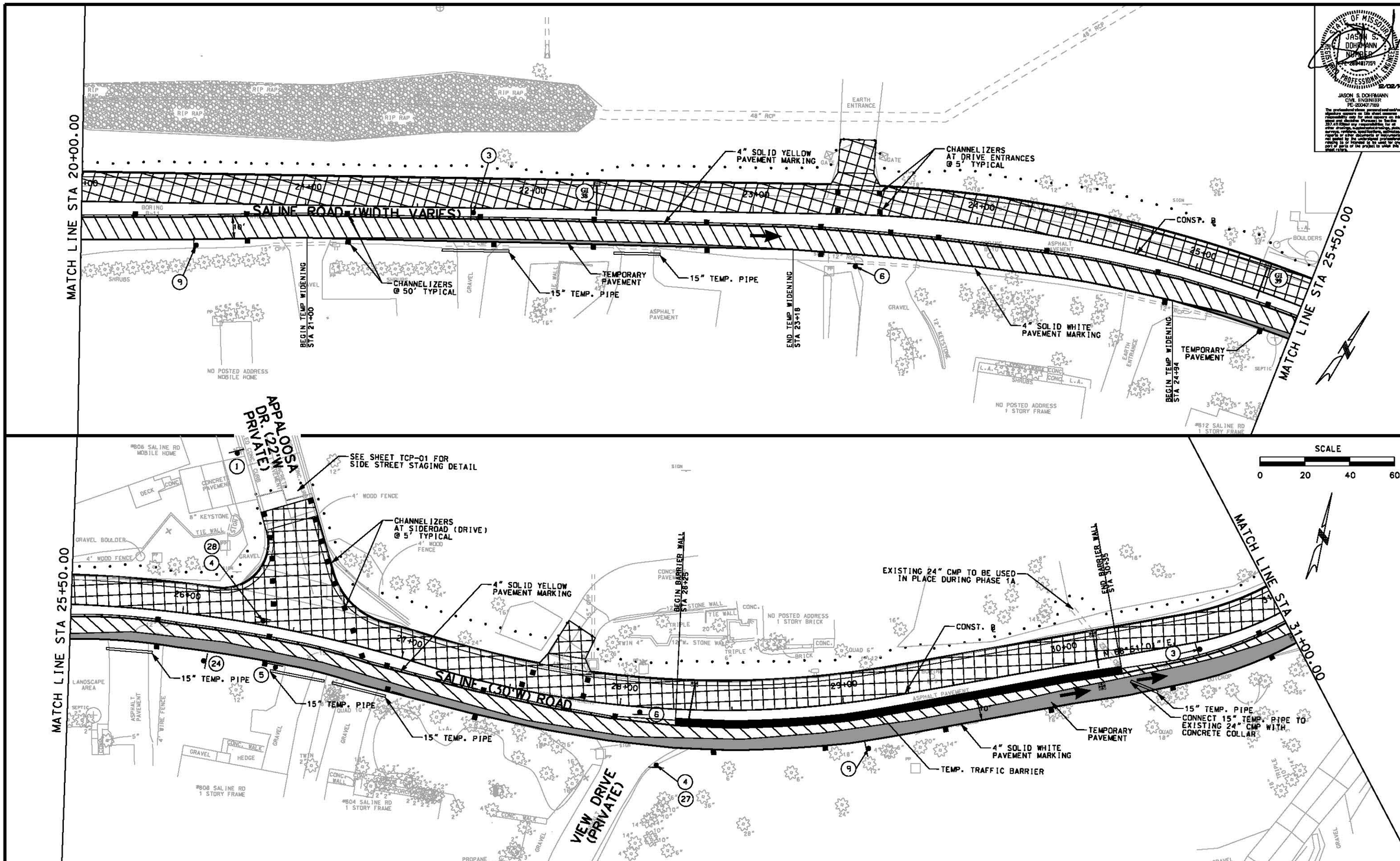
TRAFFIC CONTROL PLANS
PHASE 1A
(Sheet 3 of 20)

SHEET NO.
TCP-03
45 of 99



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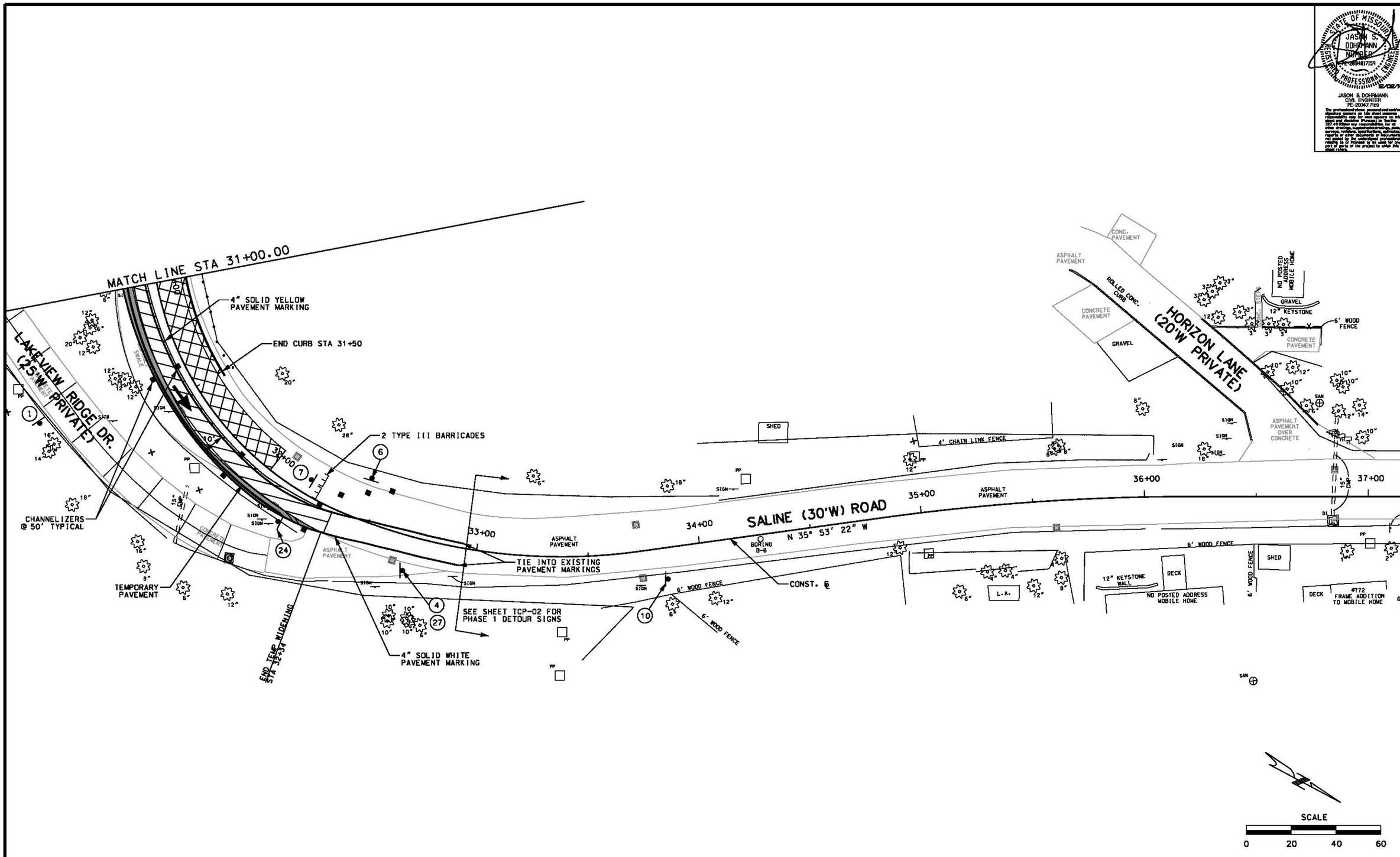
TRAFFIC CONTROL PLANS
PHASE 1A
(Sheet 4 of 20)

SHEET NO.
TCP-04
46 of 99



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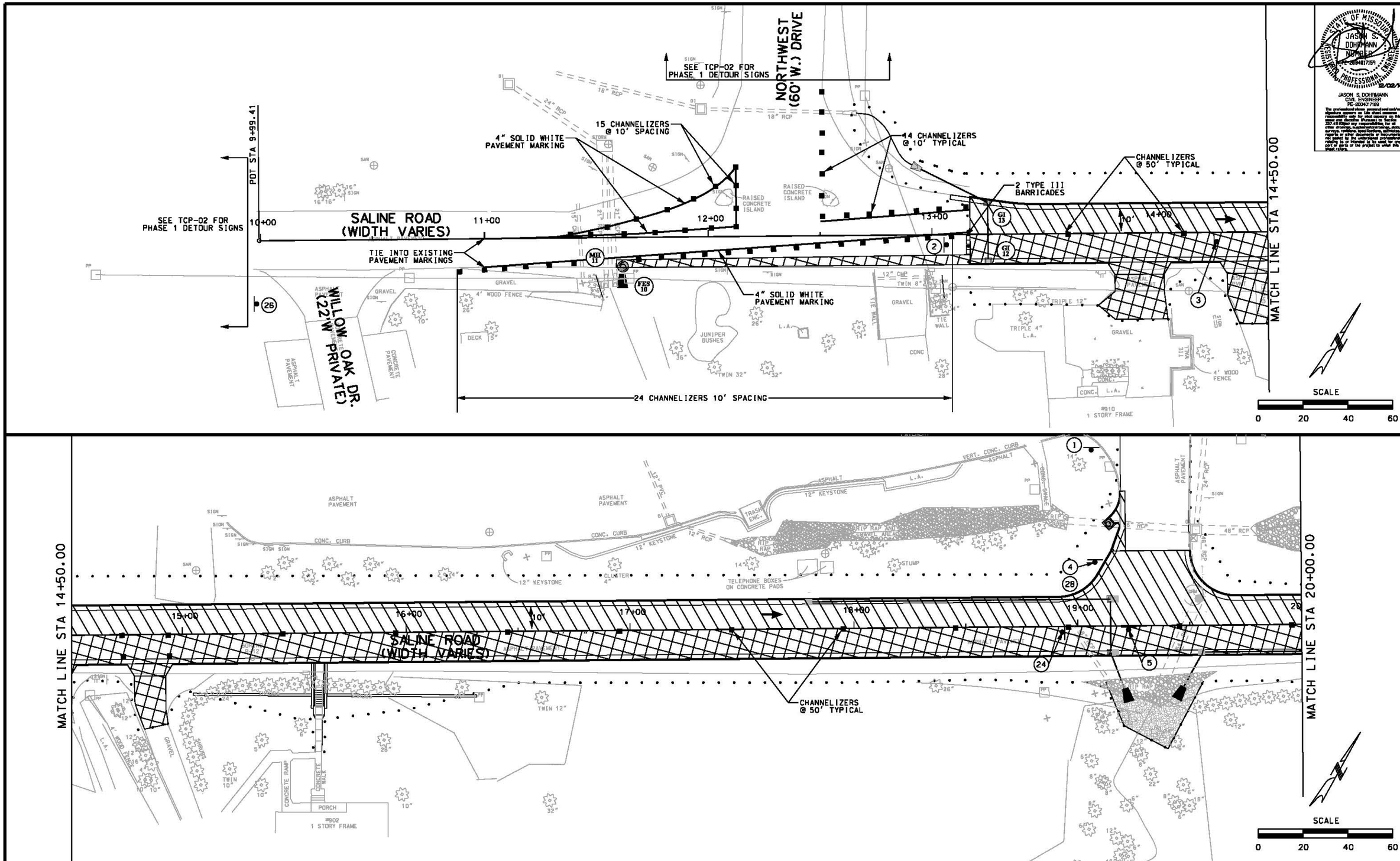
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

TRAFFIC CONTROL PLANS
PHASE 1A
(Sheet 5 of 20)

SHEET NO.
TCP-05
47 of 99



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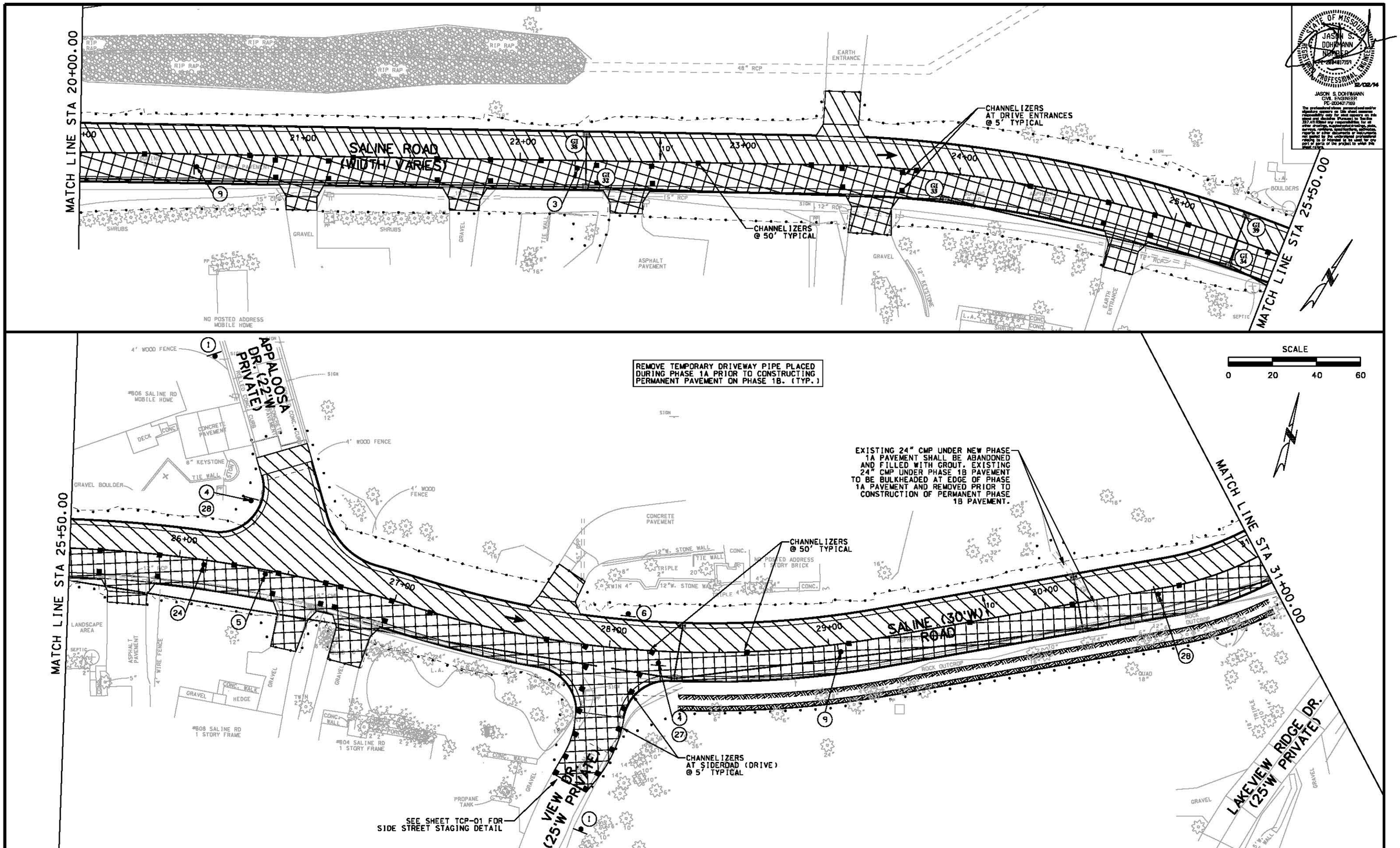
5403(642)/TIP#5589-12

TRAFFIC CONTROL PLANS
PHASE 1B
(Sheet 6 of 20)

SHEET NO.
TCP-06
48 of 99



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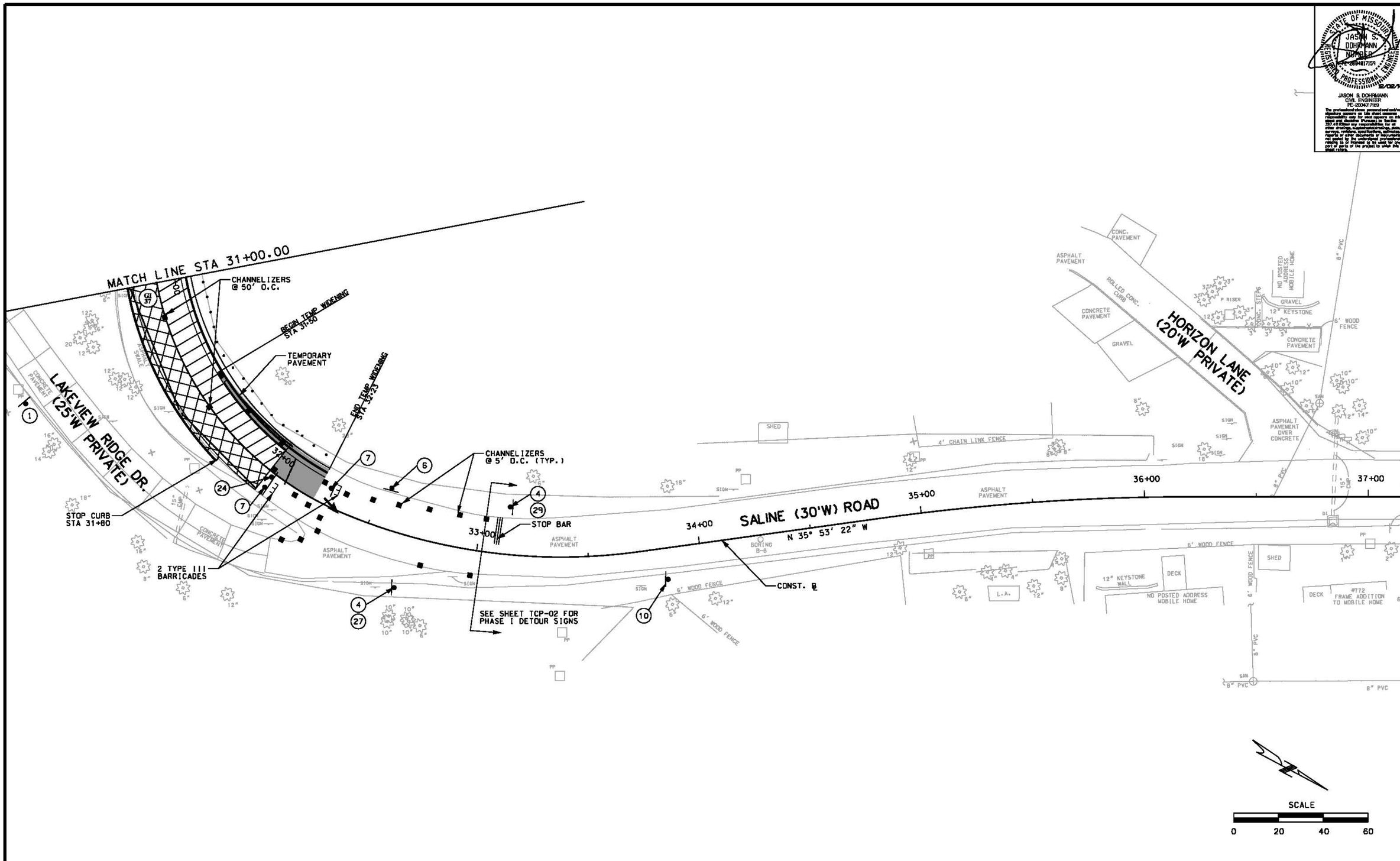
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

TRAFFIC CONTROL PLANS
PHASE 1B
(Sheet 7 of 20)

SHEET NO.
TCP-07
49 of 99



STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017159
REGISTERED PROFESSIONAL ENGINEER
2/02/14

JASON S. DOHRMANN
CIVIL ENGINEER
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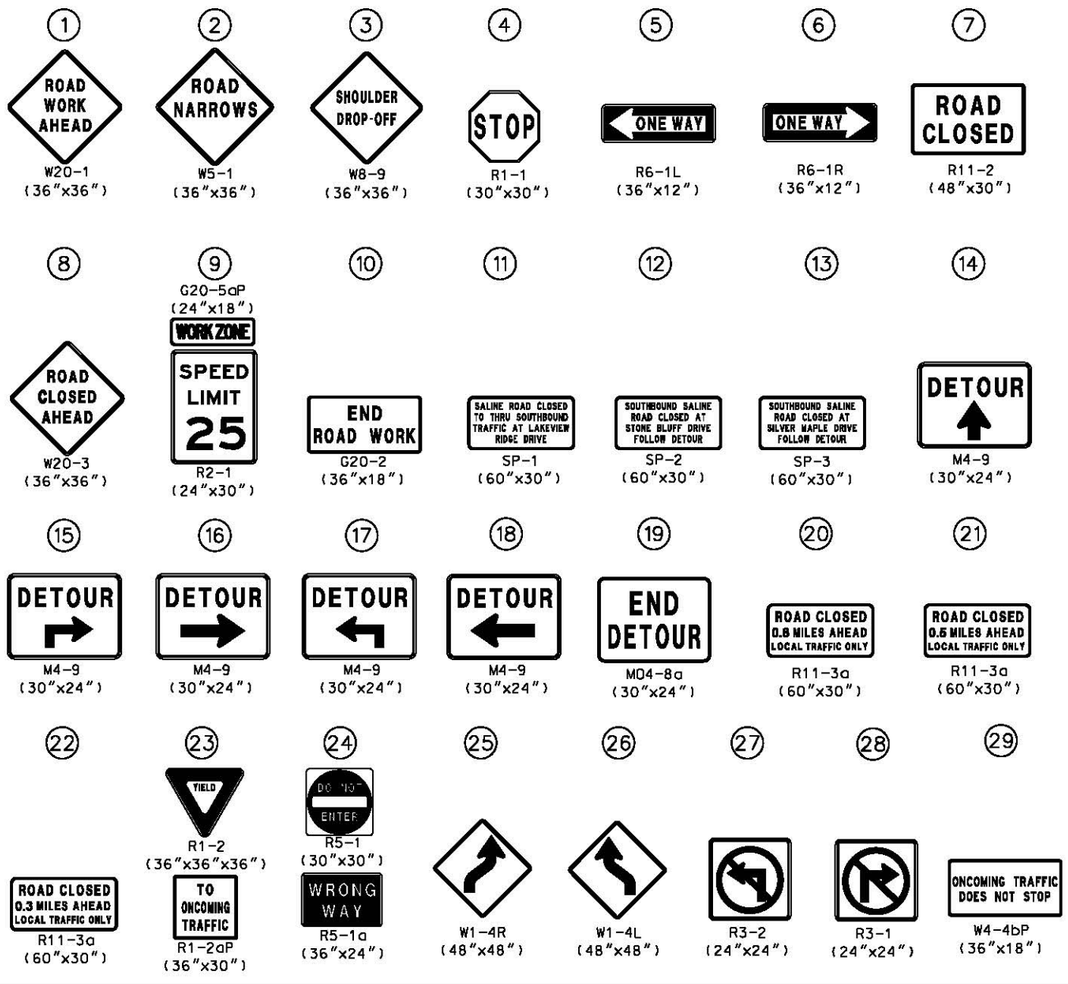
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

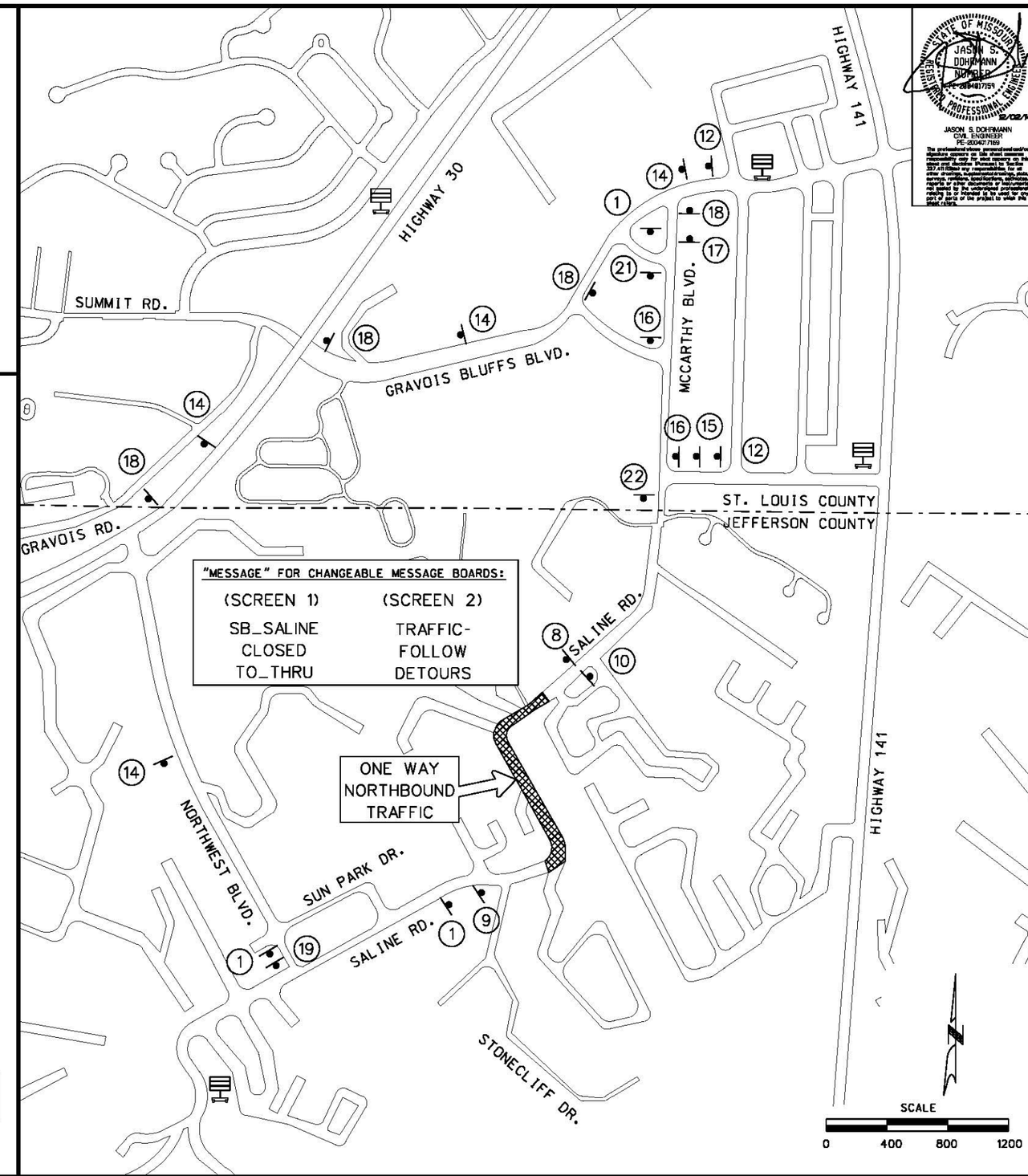
TRAFFIC CONTROL PLANS
PHASE 1B
(Sheet 8 of 20)

SHEET NO.
TCP-08

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- CHANNELIZER
- MOVEABLE BARRICADE (MB)
- CHANGEABLE MESSAGE BOARD
- EXISTING PAVEMENT UTILIZED AS MAINLINE TRAVELWAY
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT (6" BITUMINOUS BASE ON ROLLED SUBBASE. SEE JOB SPECIAL PROVISIONS FOR CONTRACTOR REQUIREMENTS WITH RESPECT TO MAINTENANCE)
- TEMPORARY TRAFFIC BARRIER





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JASON S. DOHRMANN CIVIL ENGINEER PE-2004017759
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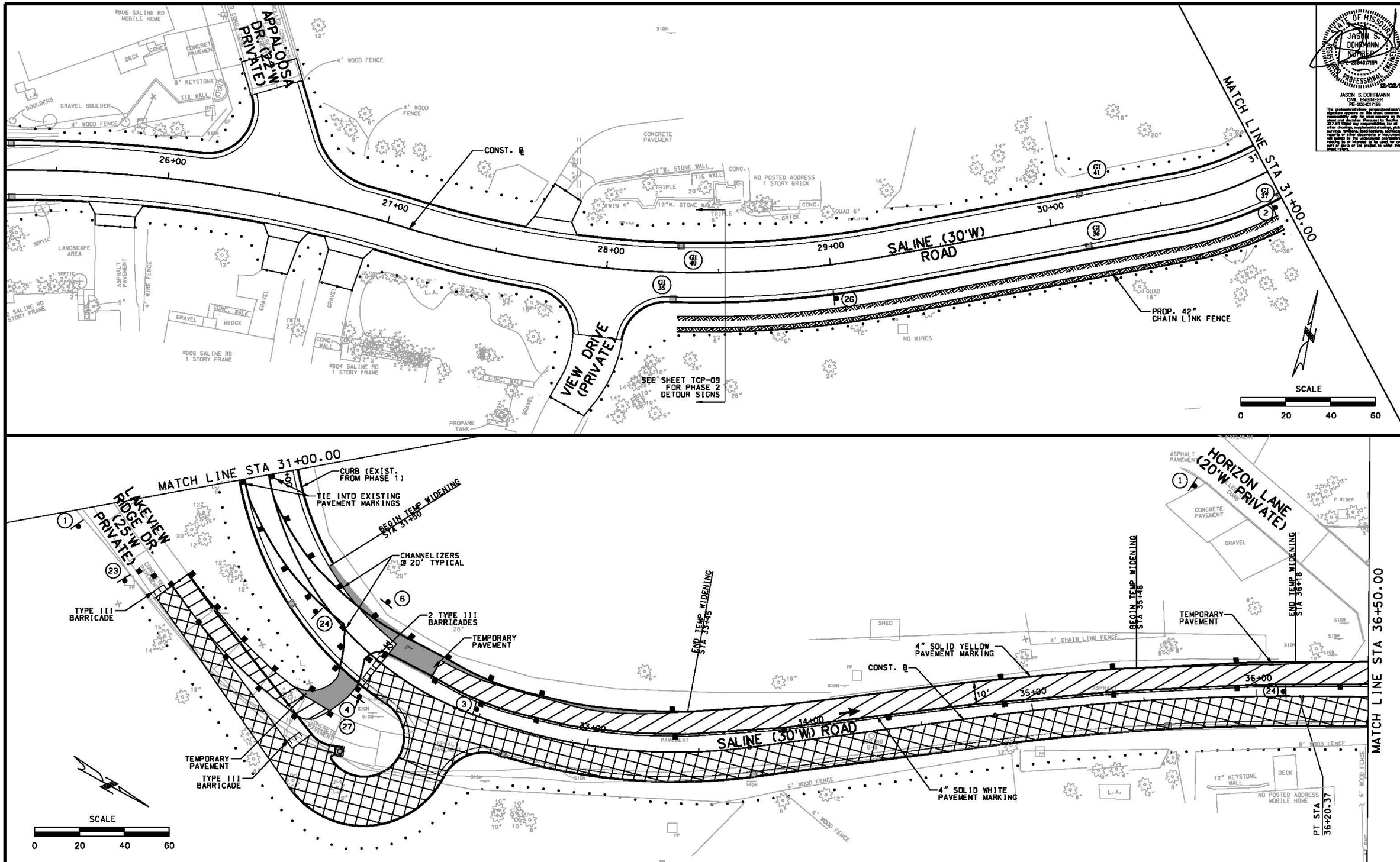
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

TRAFFIC CONTROL PLANS
DETOUR SIGNS - PHASE 2
(Sheet 9 of 20)

SHEET NO.
TCP-09
51 of 99



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COUNTY OF JEFFERSON, MISSOURI
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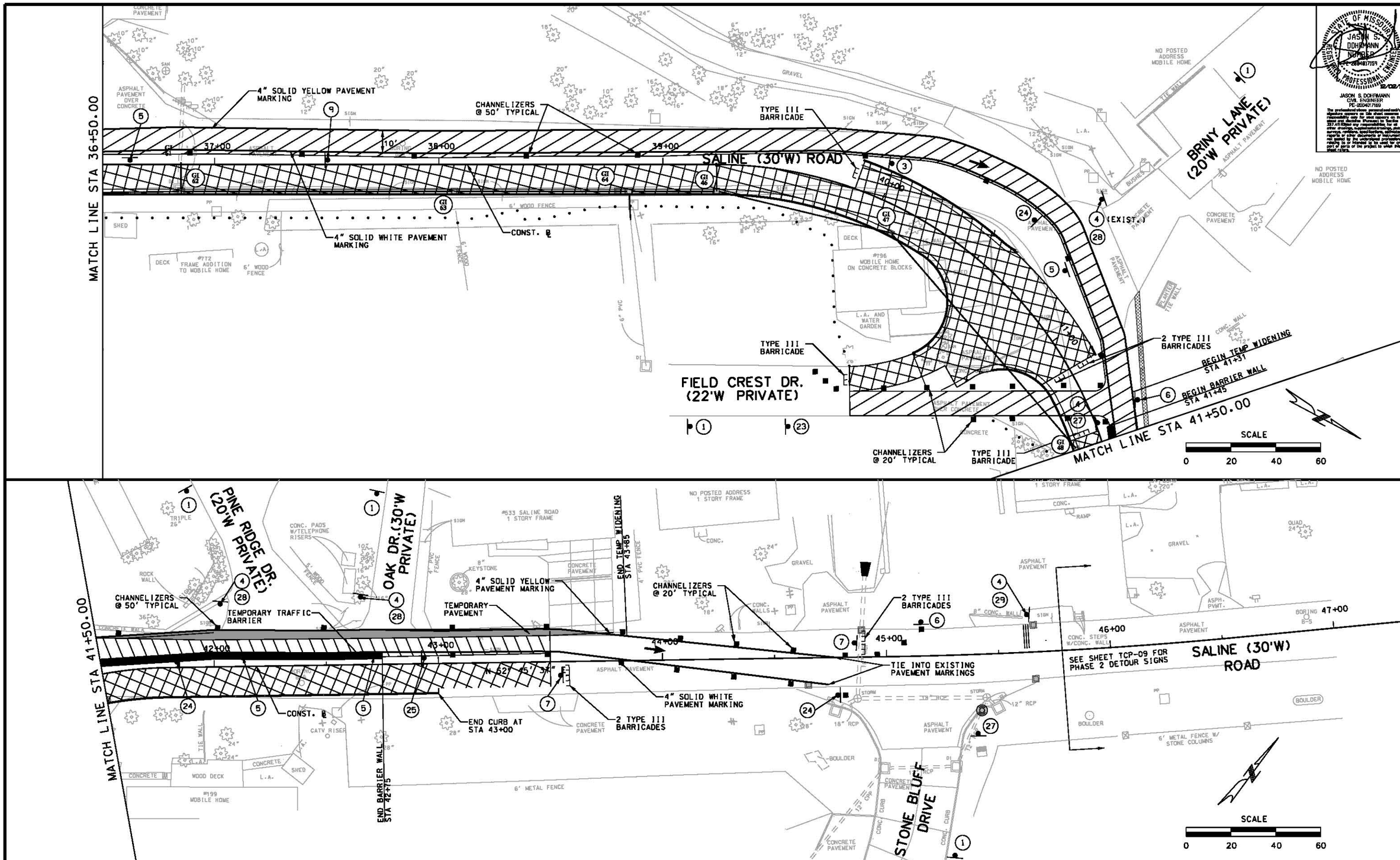
TRAFFIC CONTROL PLANS
PHASE 2A
(Sheet 10 of 20)

SHEET NO.
TCP-10
52 of 99



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COUNTY OF JEFFERSON, MISSOURI
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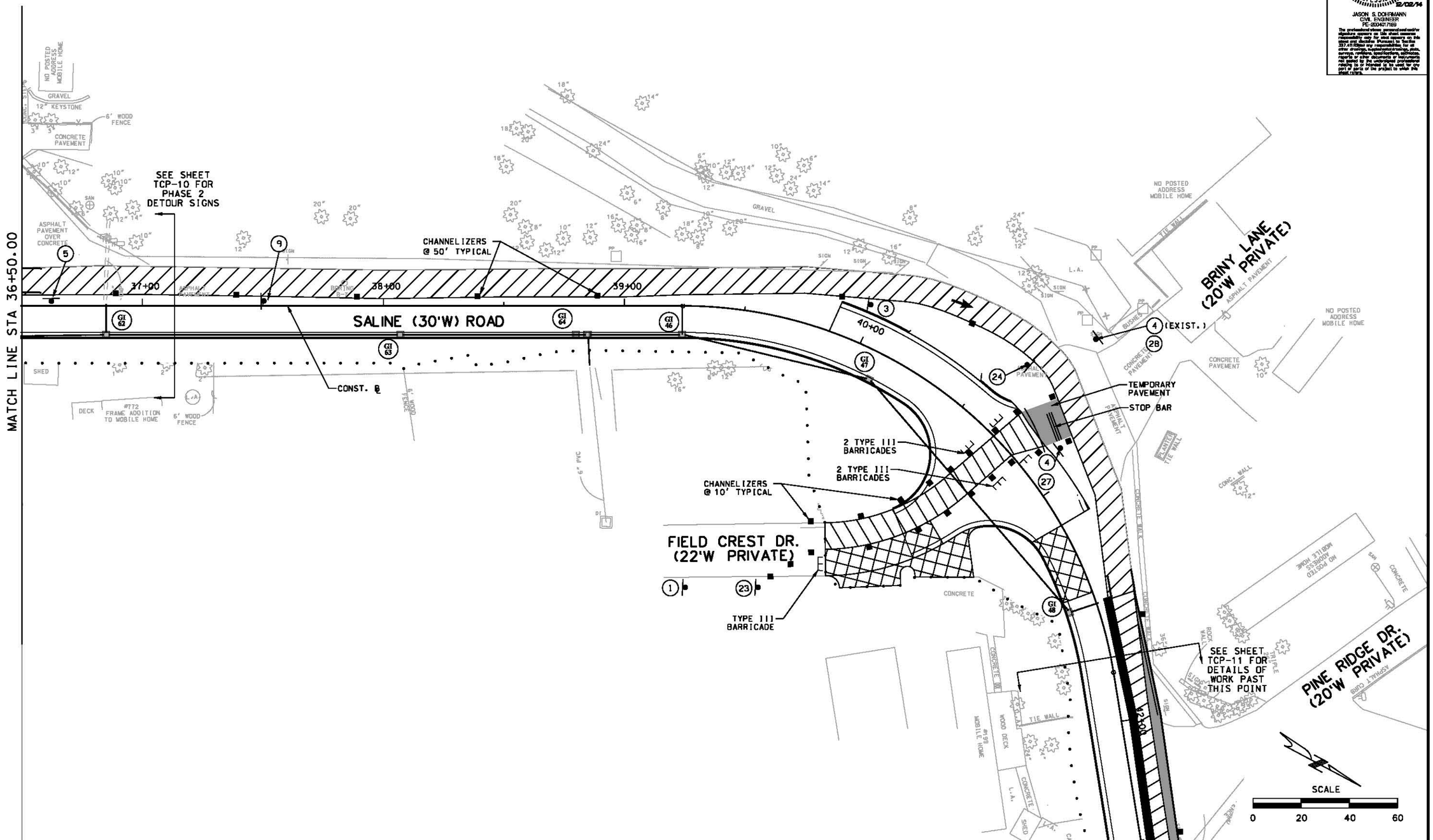
TRAFFIC CONTROL PLANS
PHASE 2A
(Sheet 11 of 20)

SHEET NO.
TCP-11
53 of 99



STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017159
PROFESSIONAL ENGINEER
2/02/14

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CIVIL ENGINEER
PE-2004017159

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COUNTY OF JEFFERSON, MISSOURI
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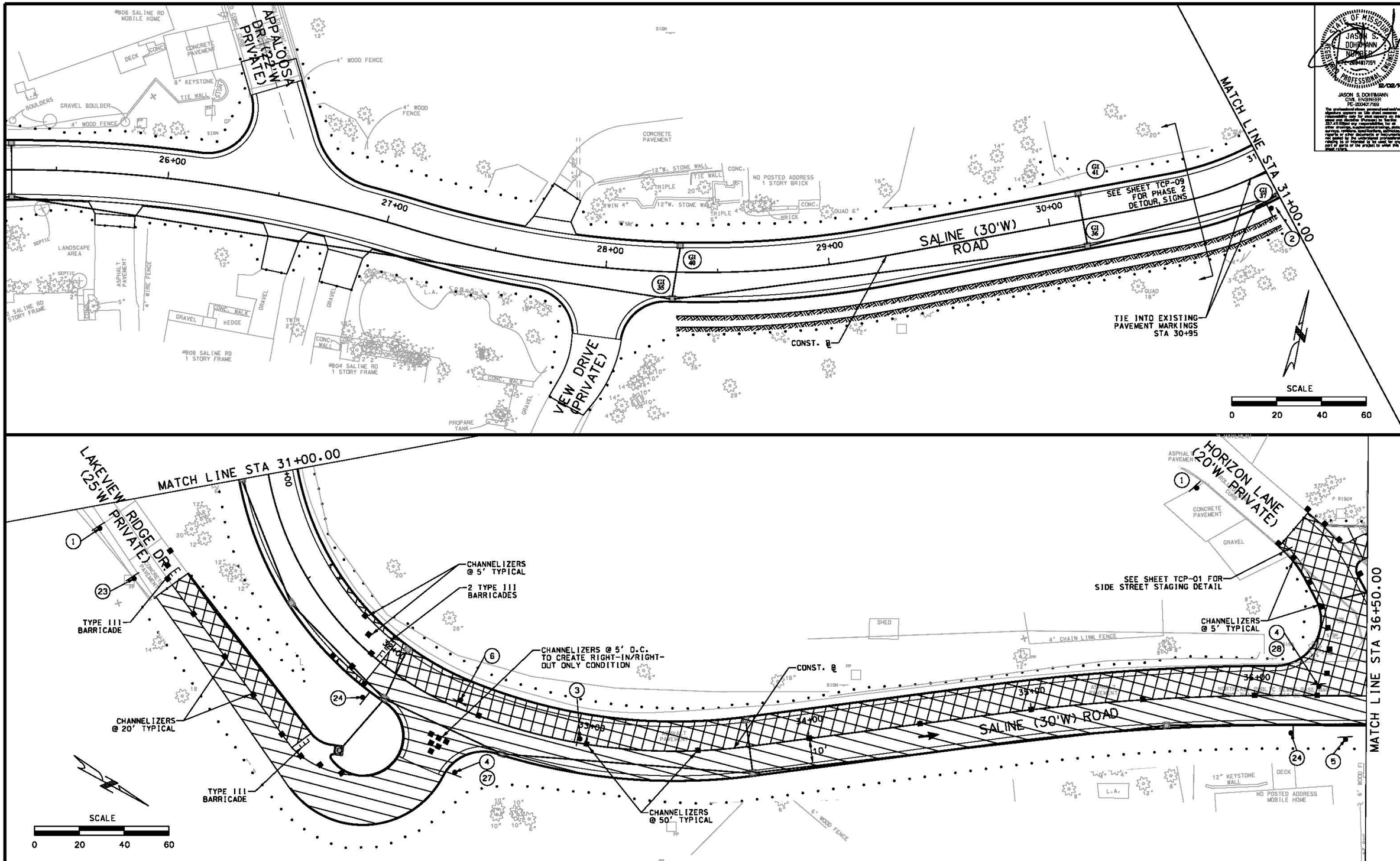
TRAFFIC CONTROL PLANS
PHASE 2B
(Sheet 12 of 20)

SHEET NO.
TCP-12



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COUNTY OF JEFFERSON, MISSOURI
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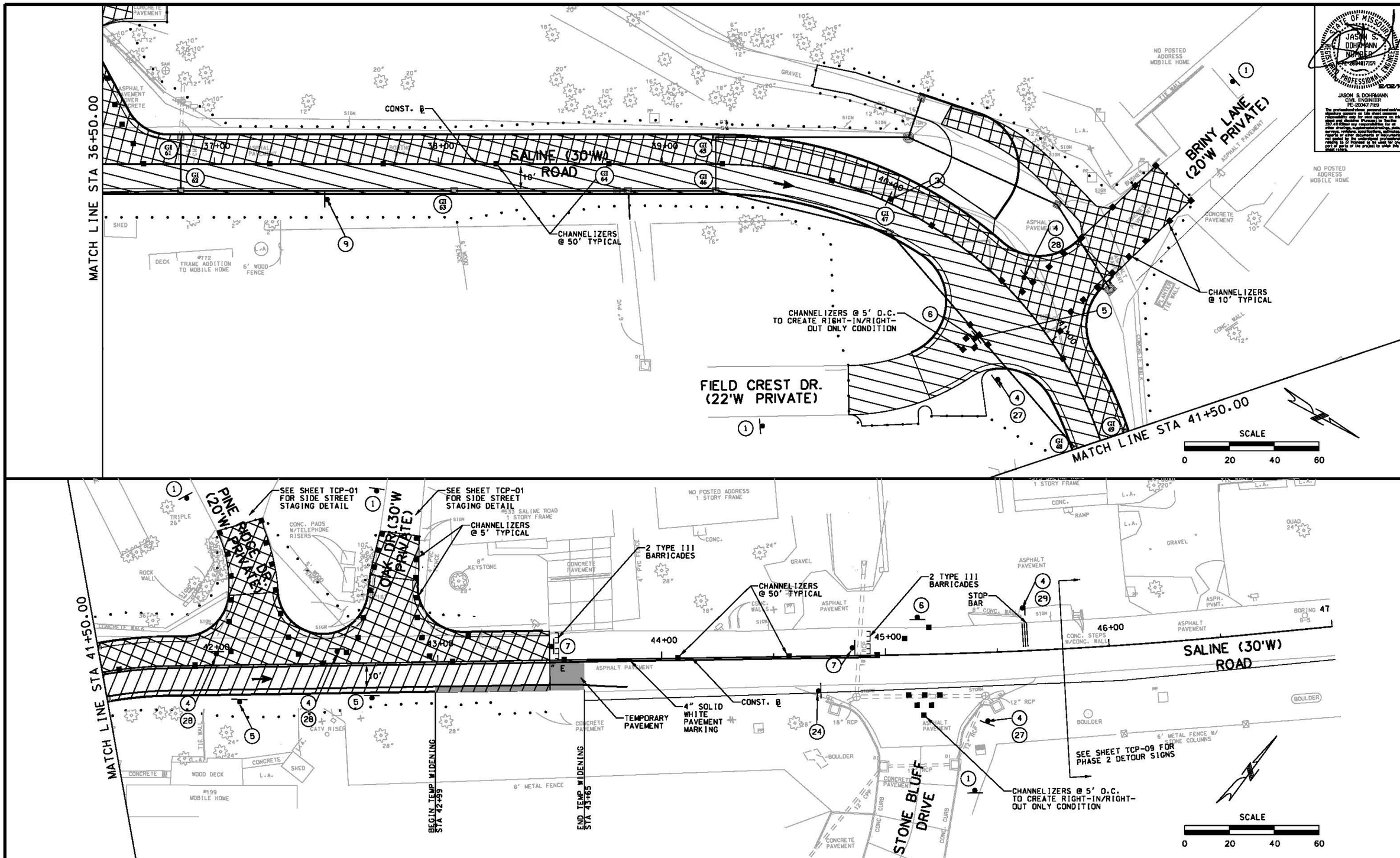
TRAFFIC CONTROL PLANS
PHASE 2C
(Sheet 13 of 20)

SHEET NO.
TCP-13
55 of 99



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JASON S. DOHRMANN
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PROFESSIONAL ENGINEER
12/02/14

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CIVIL ENGINEER
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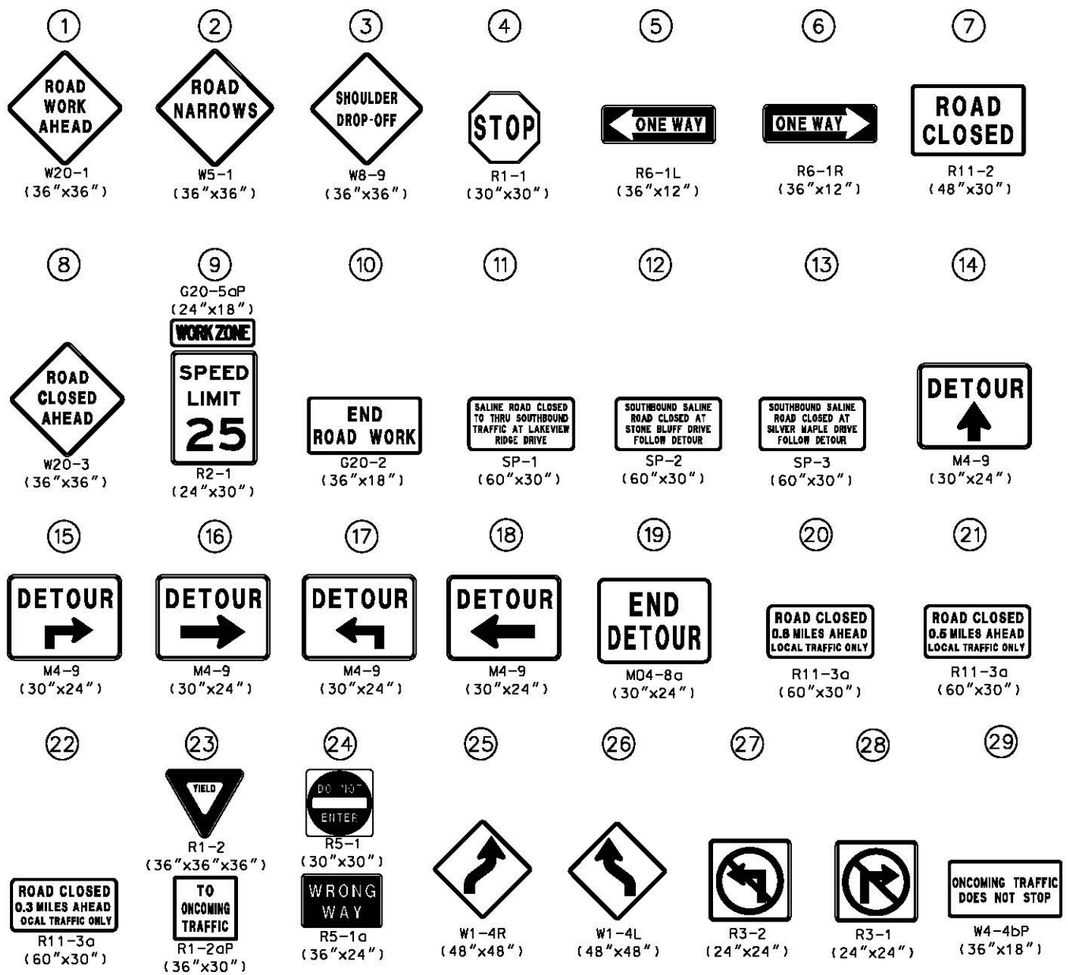
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

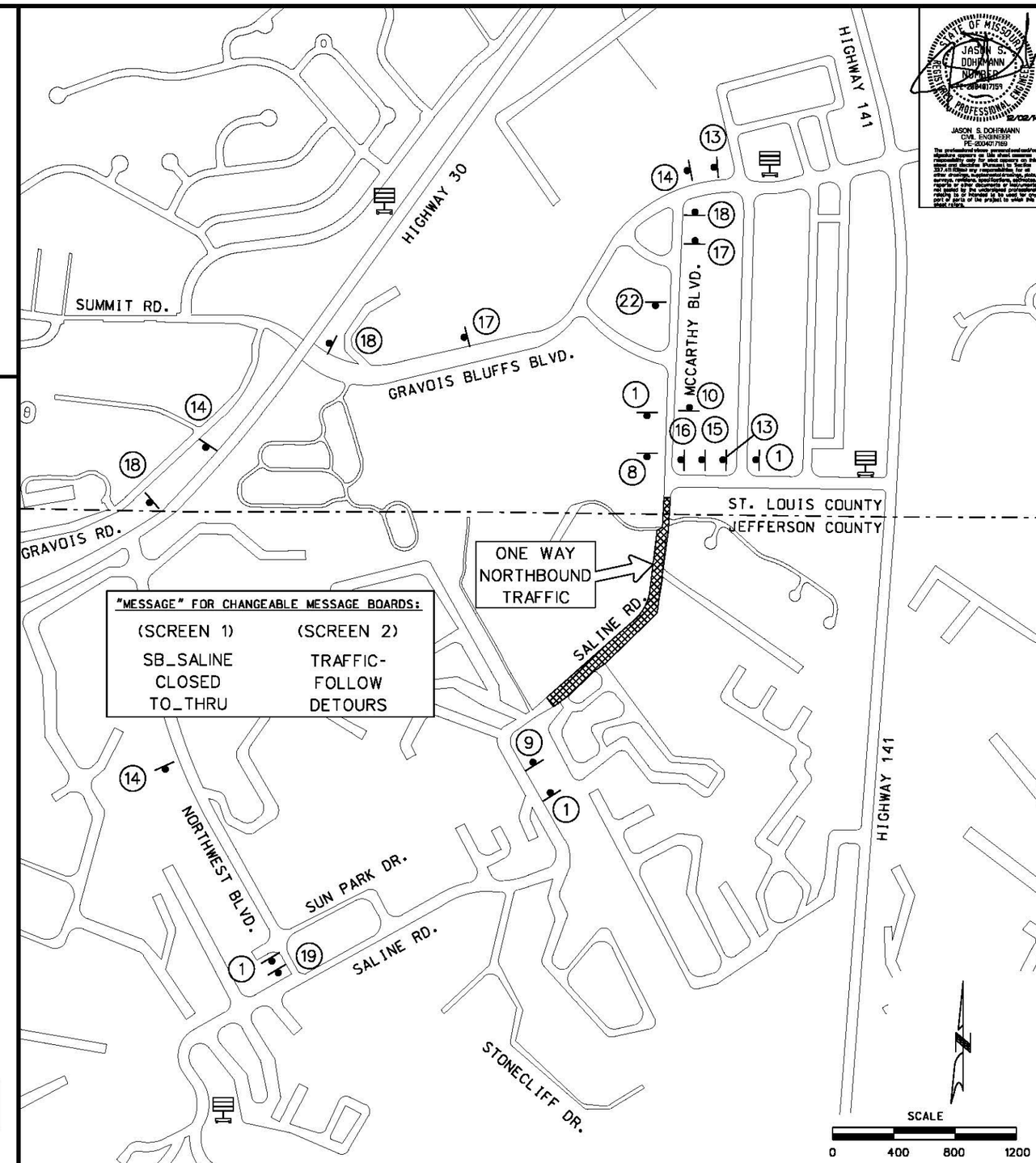
TRAFFIC CONTROL PLANS
PHASE 2C
(Sheet 14 of 20)

SHEET NO.
TCP-14
56 of 99

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- CHANNELIZER
- MOVEABLE BARRICADE (MB)
- CHANGEABLE MESSAGE BOARD
- EXISTING PAVEMENT UTILIZED AS MAINLINE TRAVELWAY
- UNDER CONSTRUCTION
- TEMPORARY PAVEMENT (6" BITUMINOUS BASE ON ROLLED SUBBASE. SEE JOB SPECIAL PROVISIONS FOR CONTRACTOR REQUIREMENTS WITH RESPECT TO MAINTENANCE)
- TEMPORARY TRAFFIC BARRIER





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JASON S. DOHRMANN
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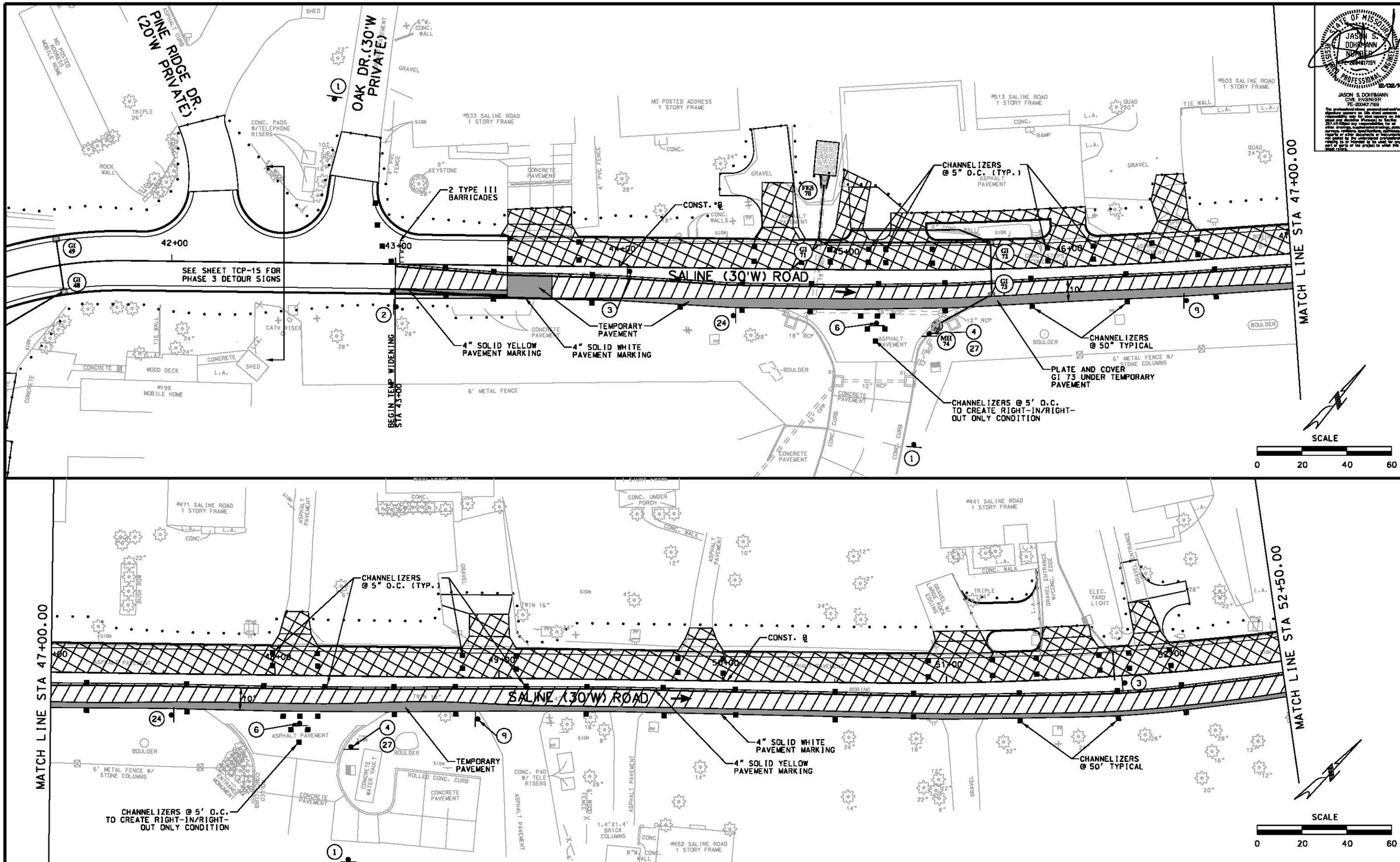
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

TRAFFIC CONTROL PLANS
DETOUR SIGNS - PHASE 3
(Sheet 15 of 20)

SHEET NO.
TCP-15
57 of 99



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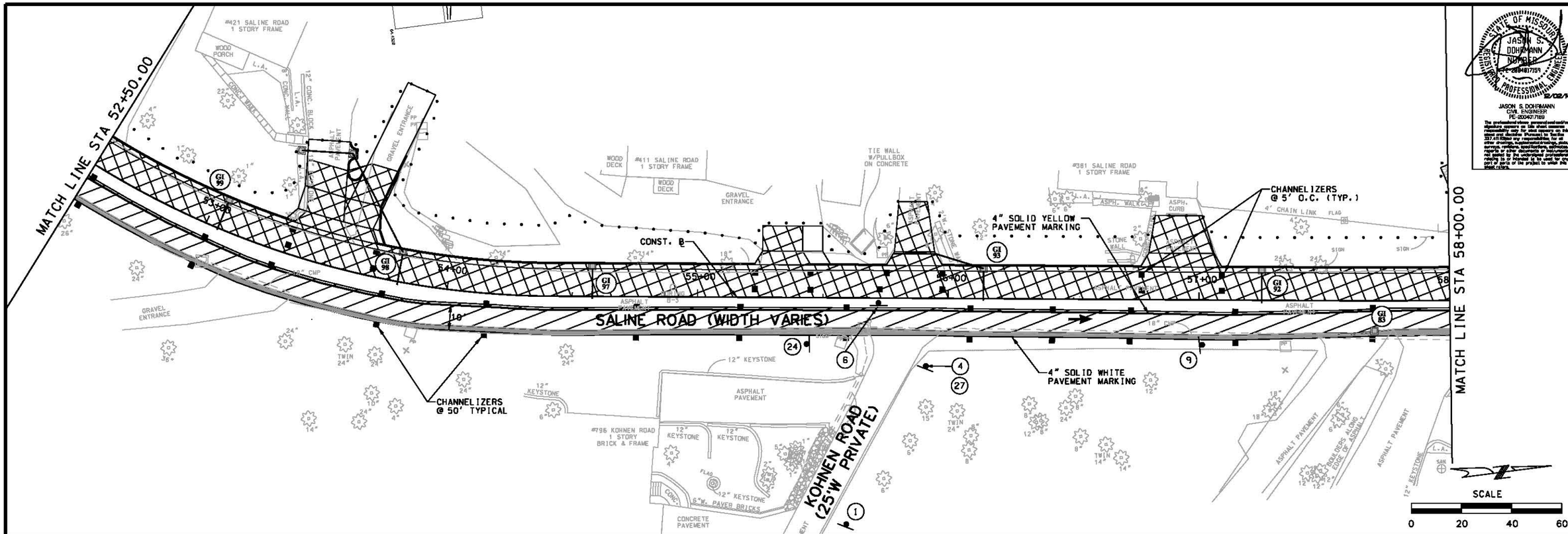
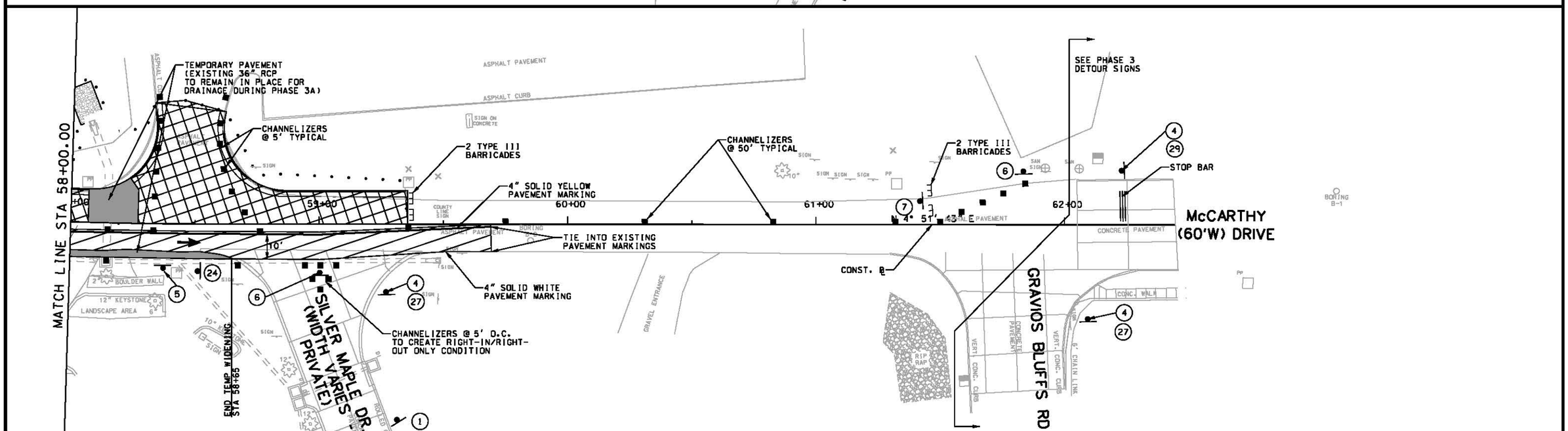
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

TRAFFIC CONTROL PLANS
PHASE 3A
(Sheet 16 of 20)

SHEET NO.
TCP-16
58 of 99





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COUNTY OF JEFFERSON, MISSOURI
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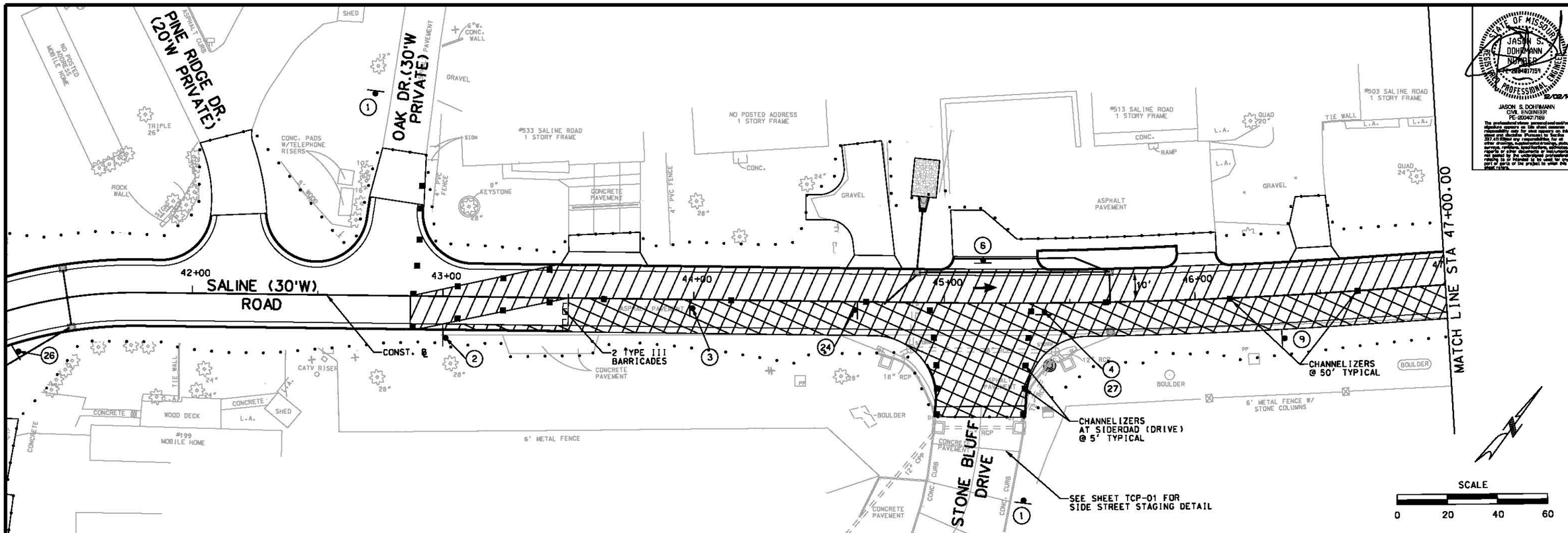
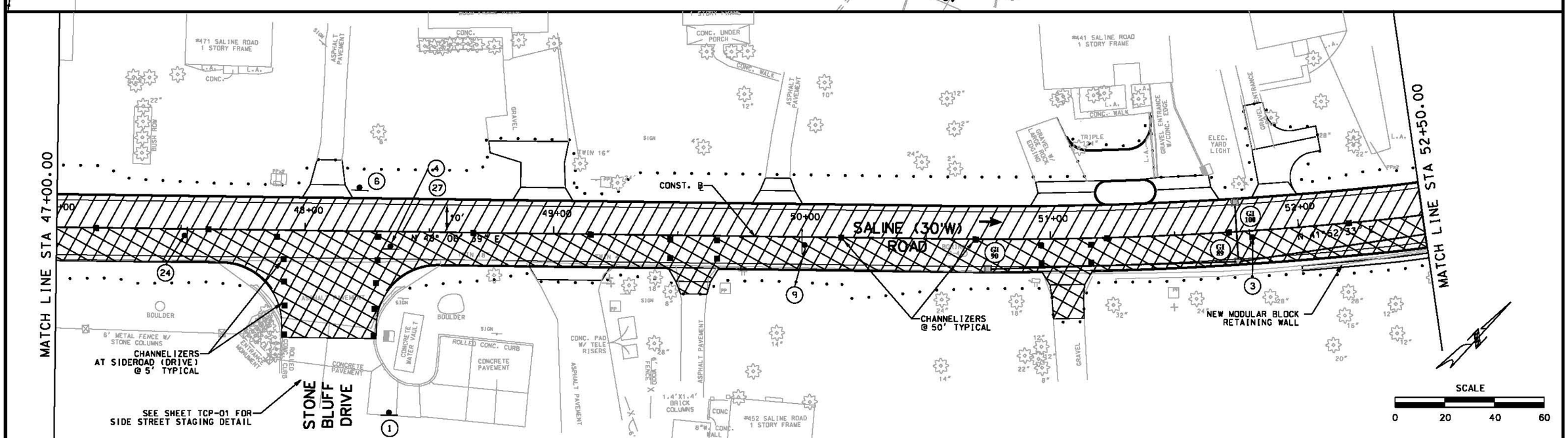
TRAFFIC CONTROL PLANS
PHASE 3A
(Sheet 17 of 20)

SHEET NO.
TCP-17
59 of 99





STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017159
REGISTERED PROFESSIONAL ENGINEER
12/02/14

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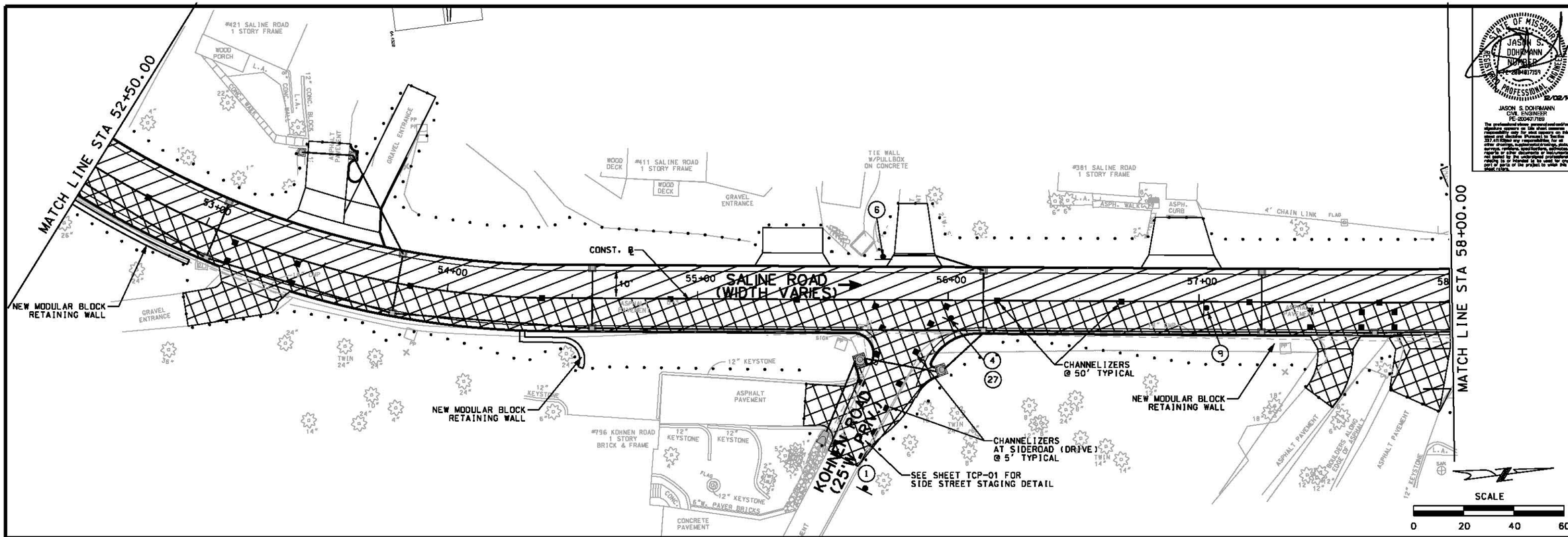
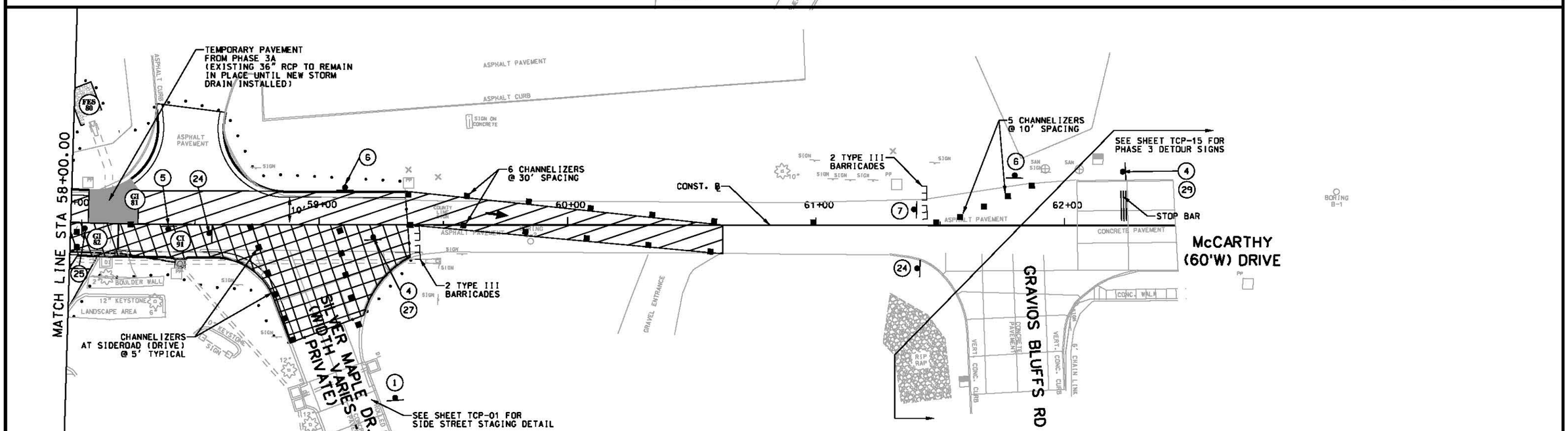
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

TRAFFIC CONTROL PLANS
PHASE 3B
(Sheet 18 of 20)

SHEET NO.
TCP-18
60 of 99





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PROFESSIONAL ENGINEER
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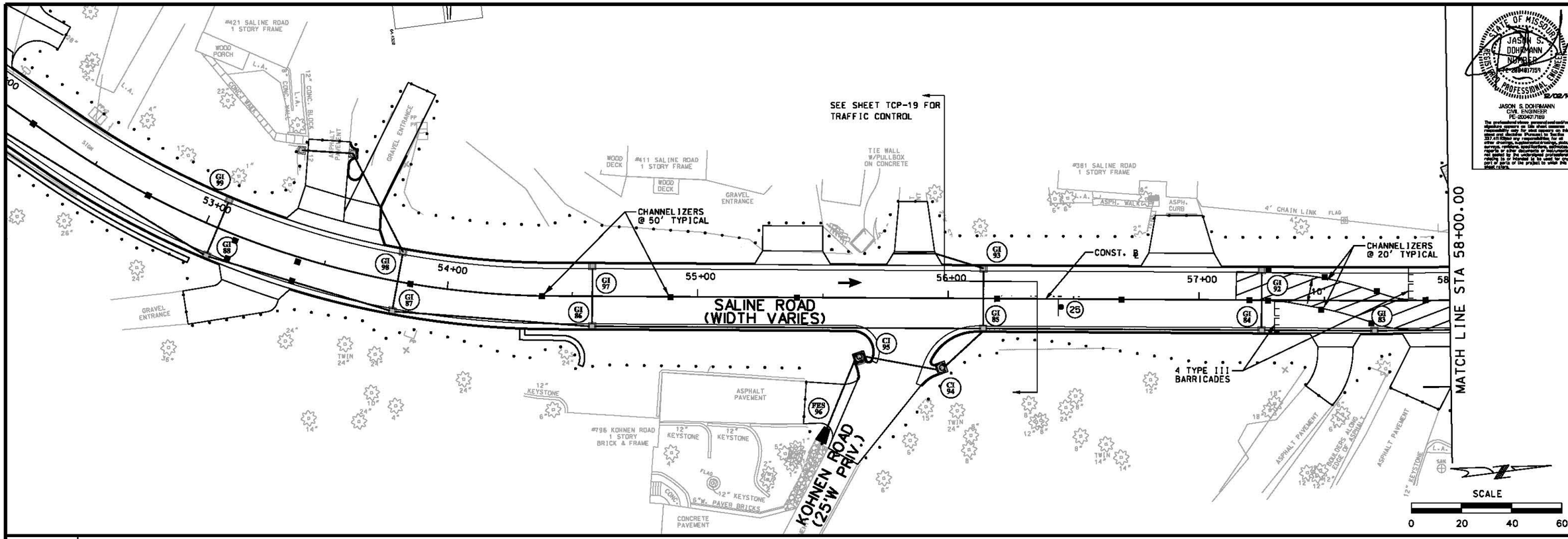
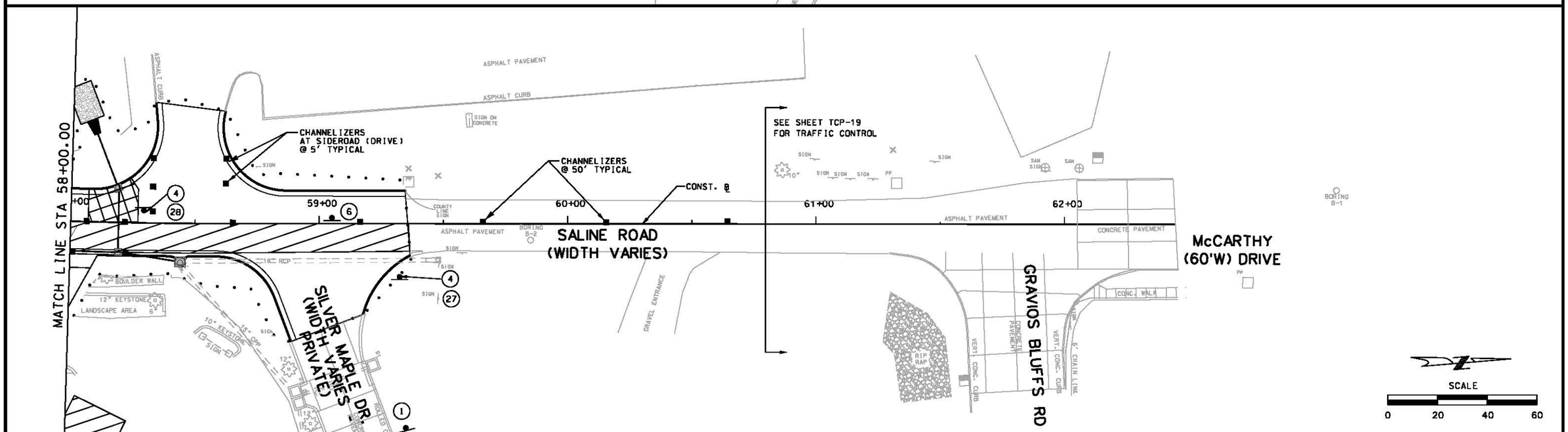
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

TRAFFIC CONTROL PLANS
PHASE 3B
(Sheet 19 of 20)

SHEET NO.
TCP-19
61 of 99





STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017169
PROFESSIONAL ENGINEER
2/02/14

JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017169

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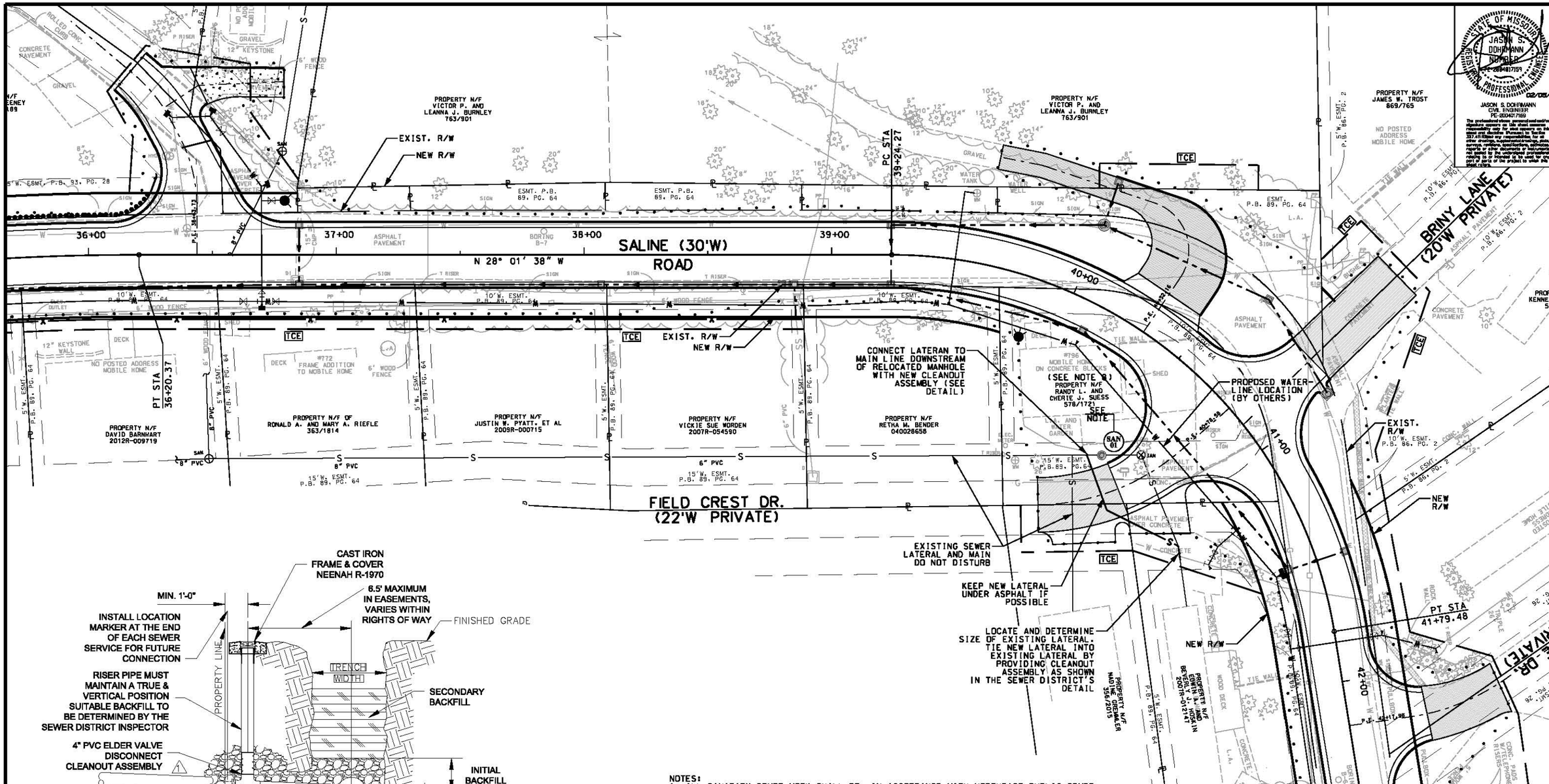
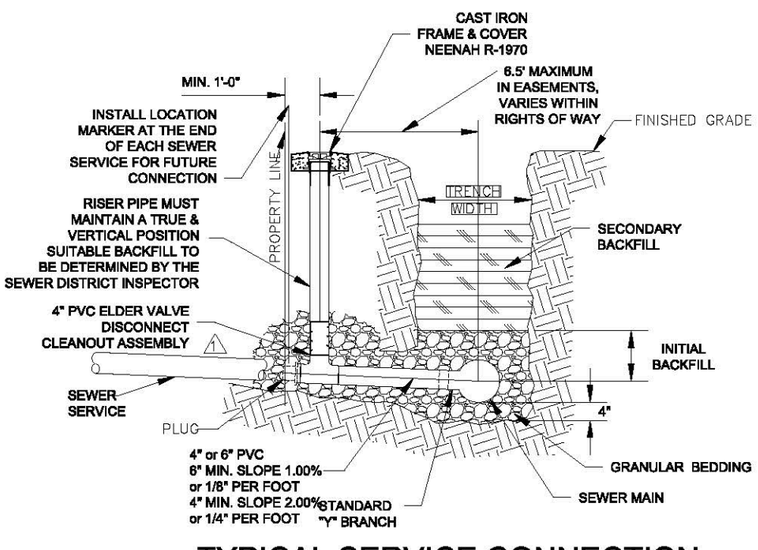
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

TRAFFIC CONTROL PLAN
PHASE 3C
(Sheet 20 of 20)

SHEET NO.
TCP-20
62 of 99





TYPICAL SERVICE CONNECTION

NOTES:

1. ALL SANITARY SEWER WORK SHALL BE IN ACCORDANCE WITH NORTHEAST PUBLIC SEWER DISTRICT'S STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL CONTACT THE SEWER DISTRICT BEFORE BEGINNING THE SANITARY SEWER WORK.
2. SANITARY MANHOLE TO BE CONSTRUCTED OVER THE EXISTING SANITARY MAIN.
3. SANITARY SEWER TO BE A 42" DIAMETER MANHOLE MEETING THE SPECIFICATIONS OF THE NORTHEAST SEWER DISTRICT.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF THE EXISTING MAIN AND MANHOLE TO BE REMOVED AS A PART OF THIS WORK.
5. APPROXIMATE LOCATION OF THE NEW MANHOLE STA. 40+52.50' RT. HOWEVER, MANHOLE LOCATION WILL DEPEND ON ACTUAL FOUND LOCATION OF THE EXISTING LINE.
6. FOR THE PURPOSES OF ESTIMATING, A 4-INCH PVC LATERAL IS ASSUMED.
7. CLEANOUTS ARE CONSIDERED INCIDENTAL TO THE COST OF CONSTRUCTING THE LATERAL TIE-INS, AND NO SPECIFIC MEASUREMENT OR PAYMENT WILL BE MADE FOR THESE ITEMS.
8. THE BUILDING NOTED ON THE PLANS AS THE "SUESS" PROPERTY HAS BEEN REMOVED BY OTHERS, BUT THE ABANDONED HOUSE SEWER LATERAL HAS NOT BEEN VERIFIED AS BEING PROPERLY CAPPED. THE CONTRACTOR SHALL CONTACT THE SEWER DISTRICT TO DETERMINE THE APPROXIMATE LOCATION OF THIS HOUSE SEWER LATERAL AND EXCAVATE THIS LINE TO DETERMINE THE CONDITION OF THE OF THE "CAPPING". IF NEED BE, THE CONTRACTOR SHALL CAP THIS LATERAL PER THE DIRECTIONS OF THE SEWER DISTRICT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE SANITARY SEWER MANHOLE.

STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017759
PROFESSIONAL ENGINEER
02/05/15

JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017759

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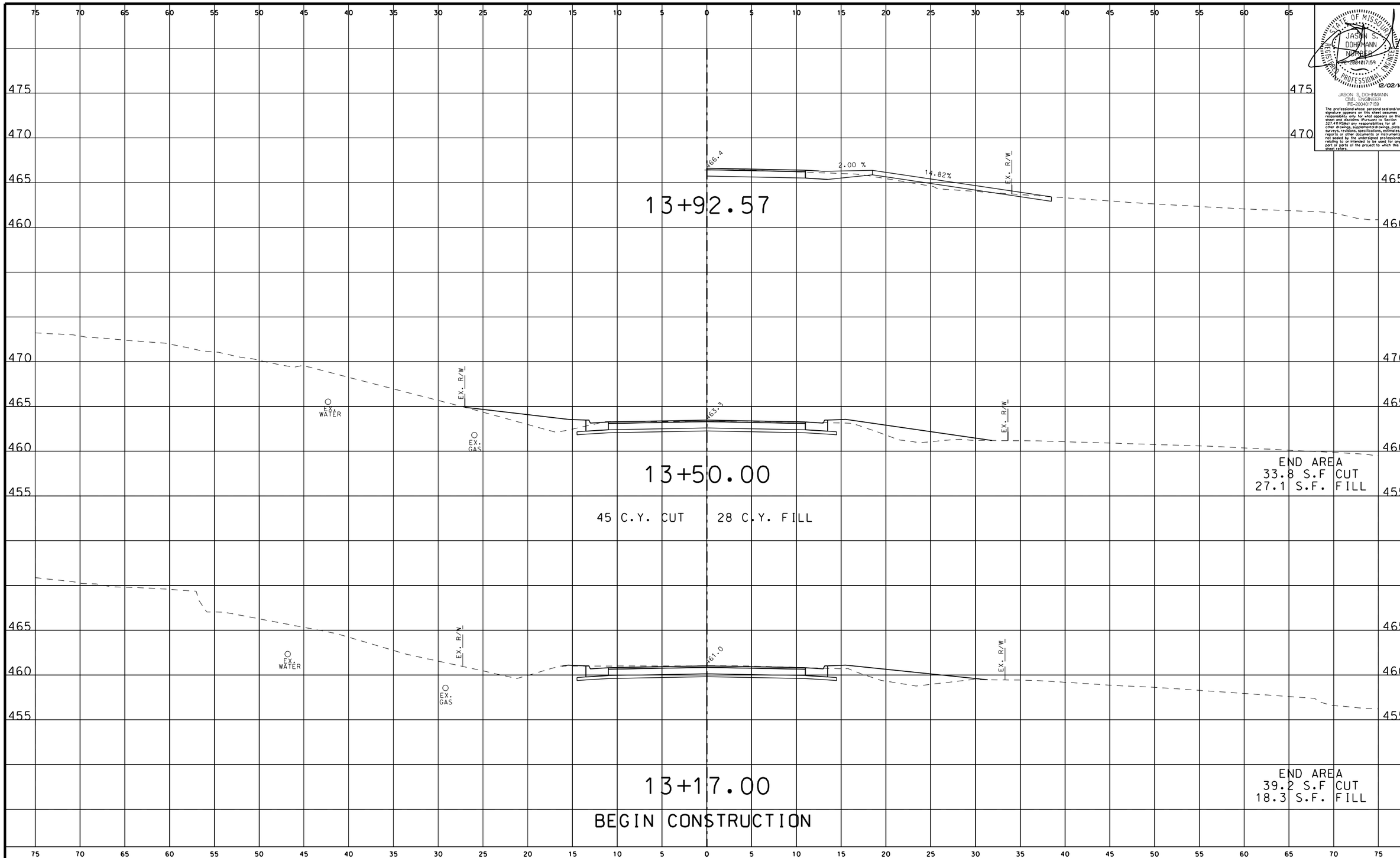
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

SANITARY SEWER REVISIONS
MAINLINE ALIGNMENT
(Sheet 1 of 1)

SHEET NO.
SAN-01



STATE OF MISSOURI
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PHONE: (636) 519.0990
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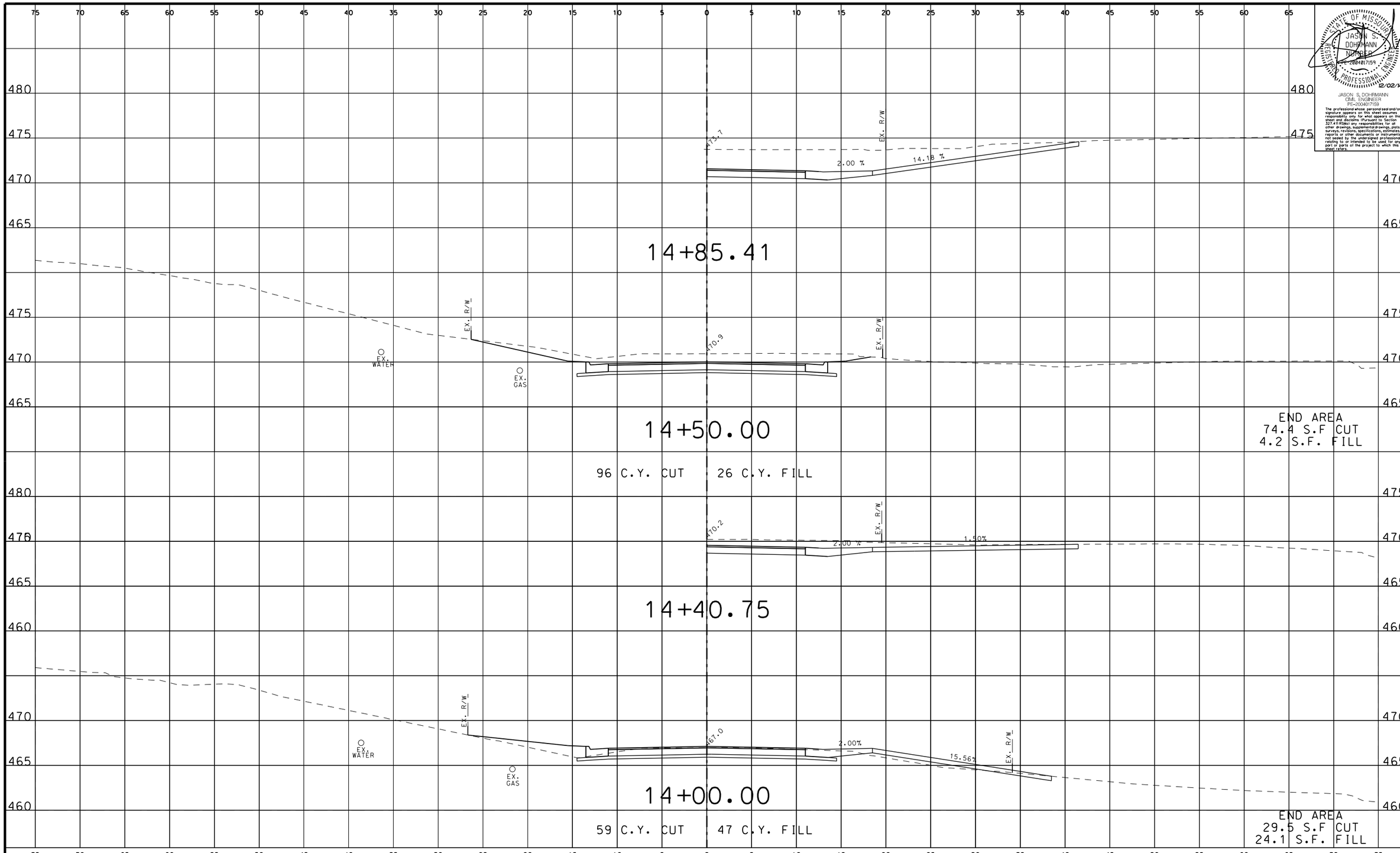
SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-01



STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017159
REGISTERED PROFESSIONAL ENGINEER
12/02/14

JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017159

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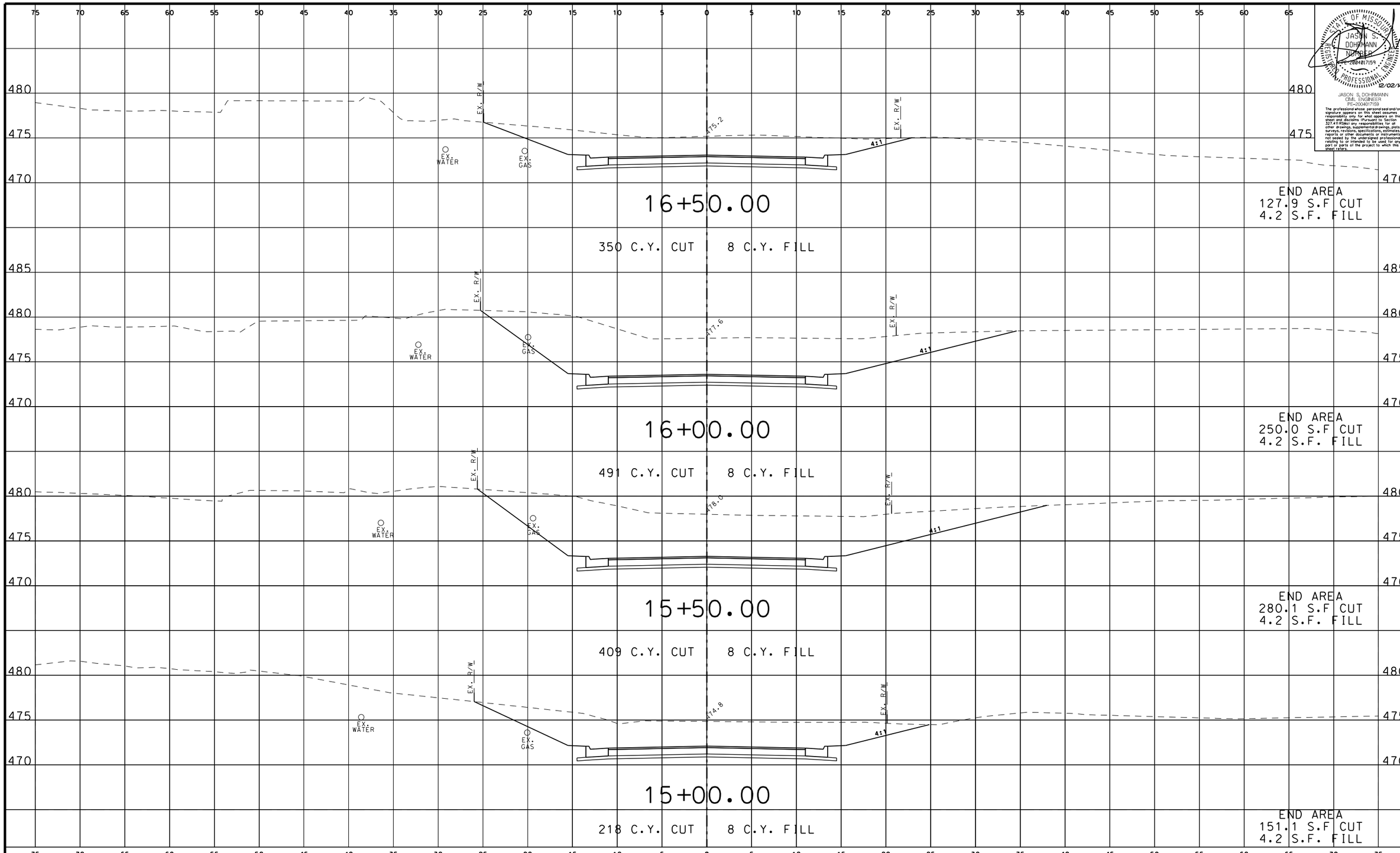
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-02
65 of 99



STATE OF MISSOURI
JASON S. DOHRMANN
NUMBER
PE-2004017159
REGISTERED PROFESSIONAL ENGINEER
12/02/14

JASON S. DOHRMANN
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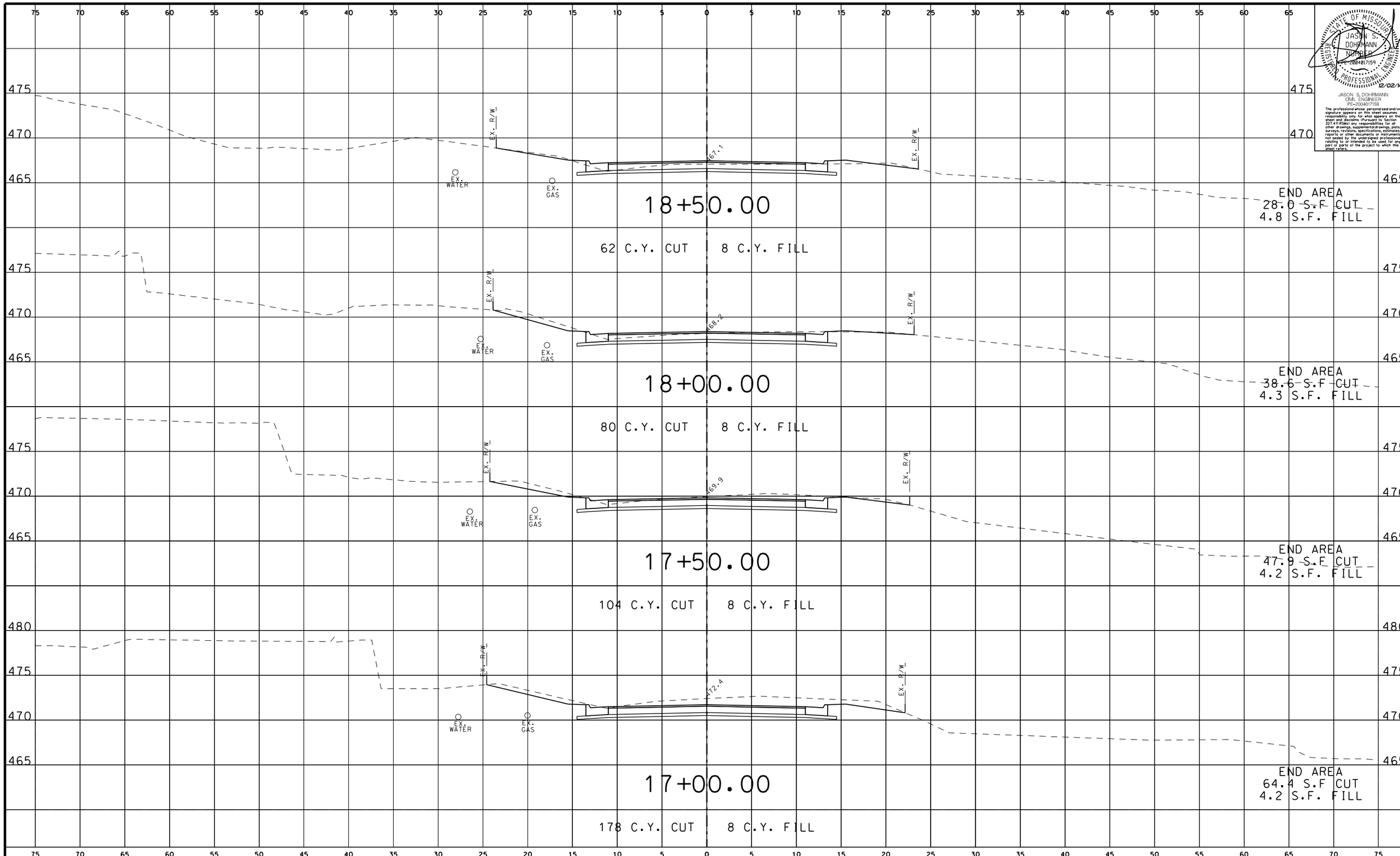
JEFFERSON COUNTY MISSOURI 1818

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-03
66 of 99



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JASON S. DOHRMANN
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PE-2004017159
REGISTERED PROFESSIONAL ENGINEER
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JASON S. DOHRMANN
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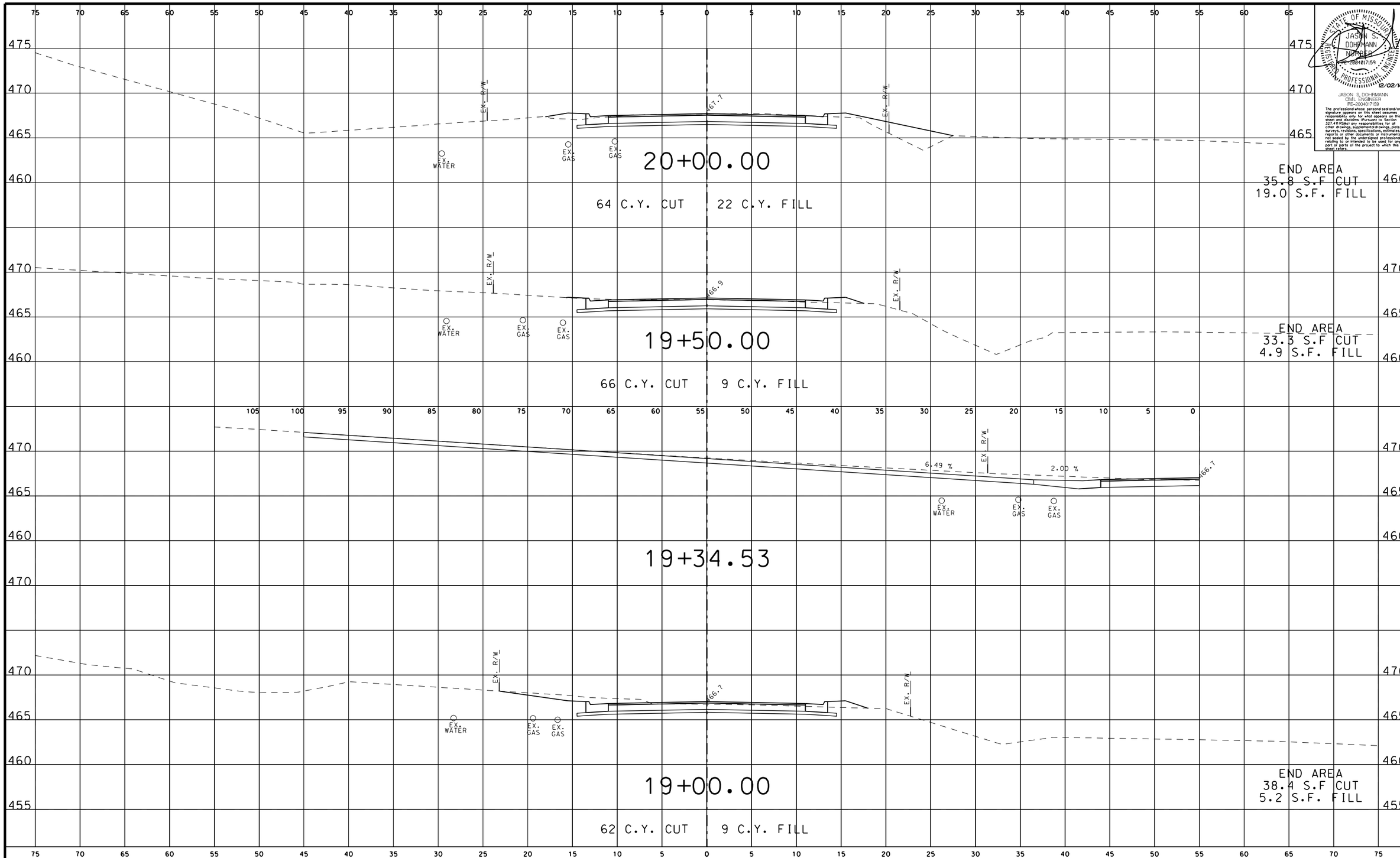
JEFFERSON COUNTY MISSOURI 1818

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-04
67 of 99



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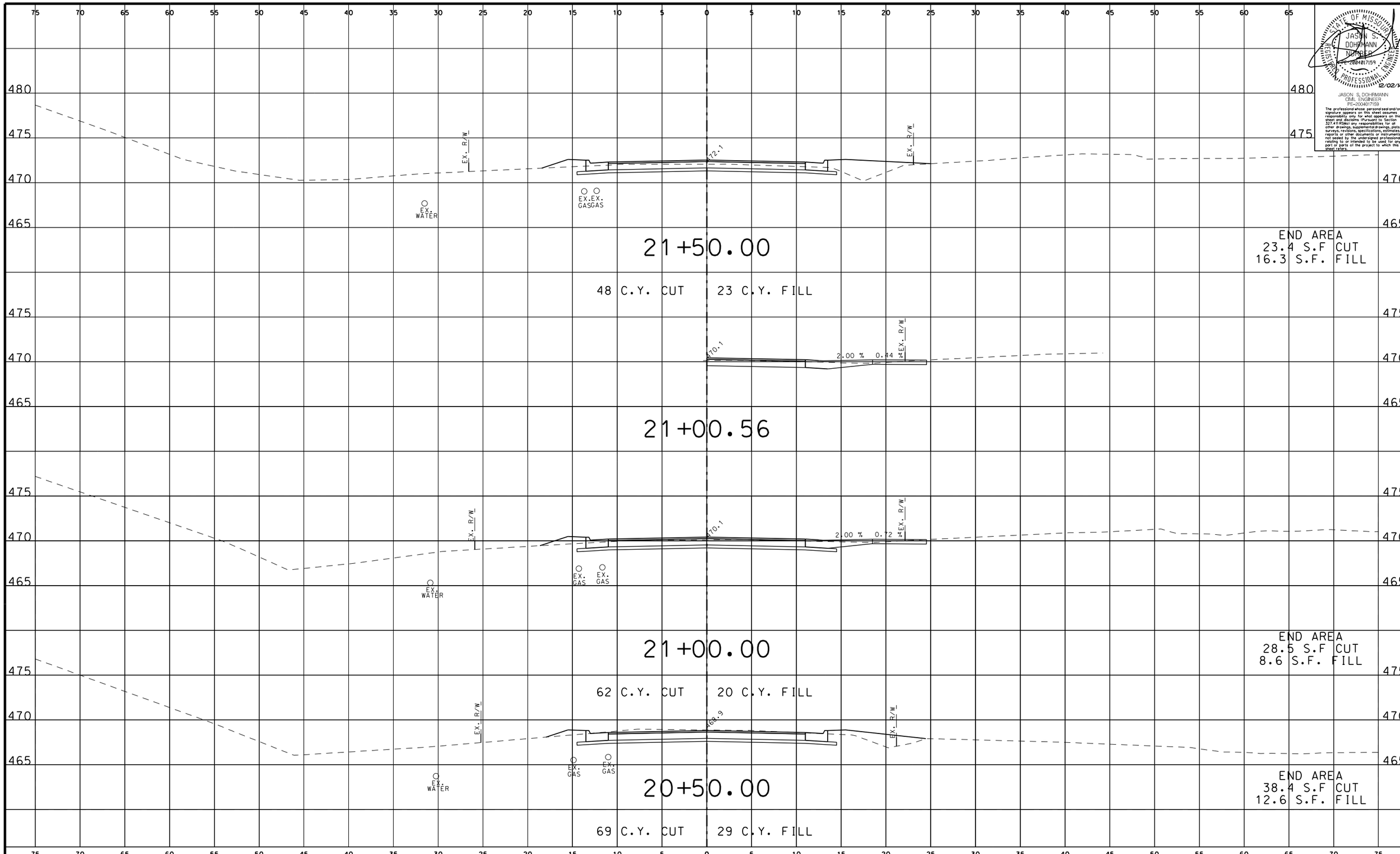
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-05
68 of 99



STATE OF MISSOURI
JASON S. DOHRMANN
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PE-2004017159
REGISTERED PROFESSIONAL ENGINEER
12/02/14

JASON S. DOHRMANN
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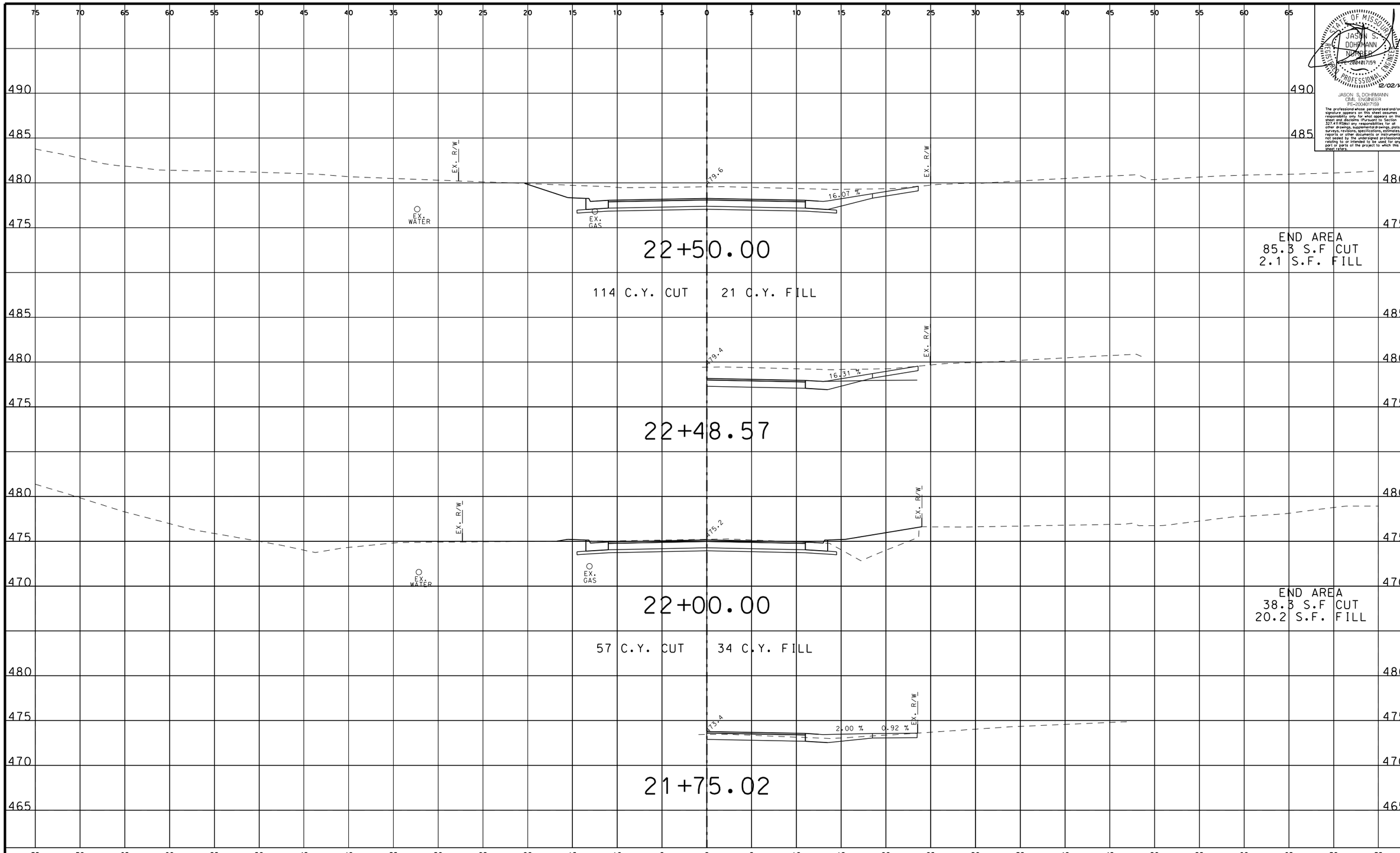
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-06
69 of 99



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COUNTY OF JEFFERSON, MISSOURI
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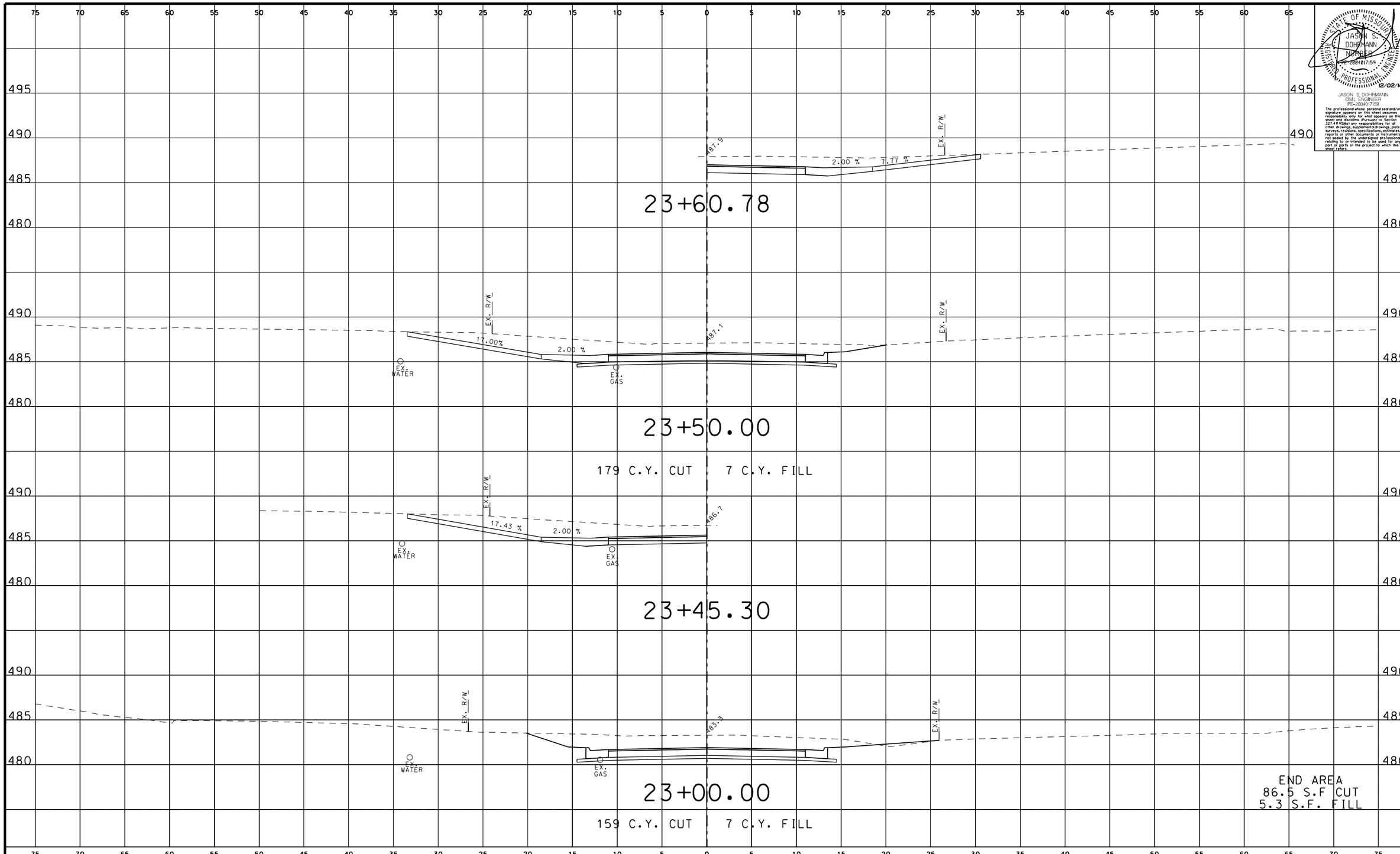
PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-07
70 of 99



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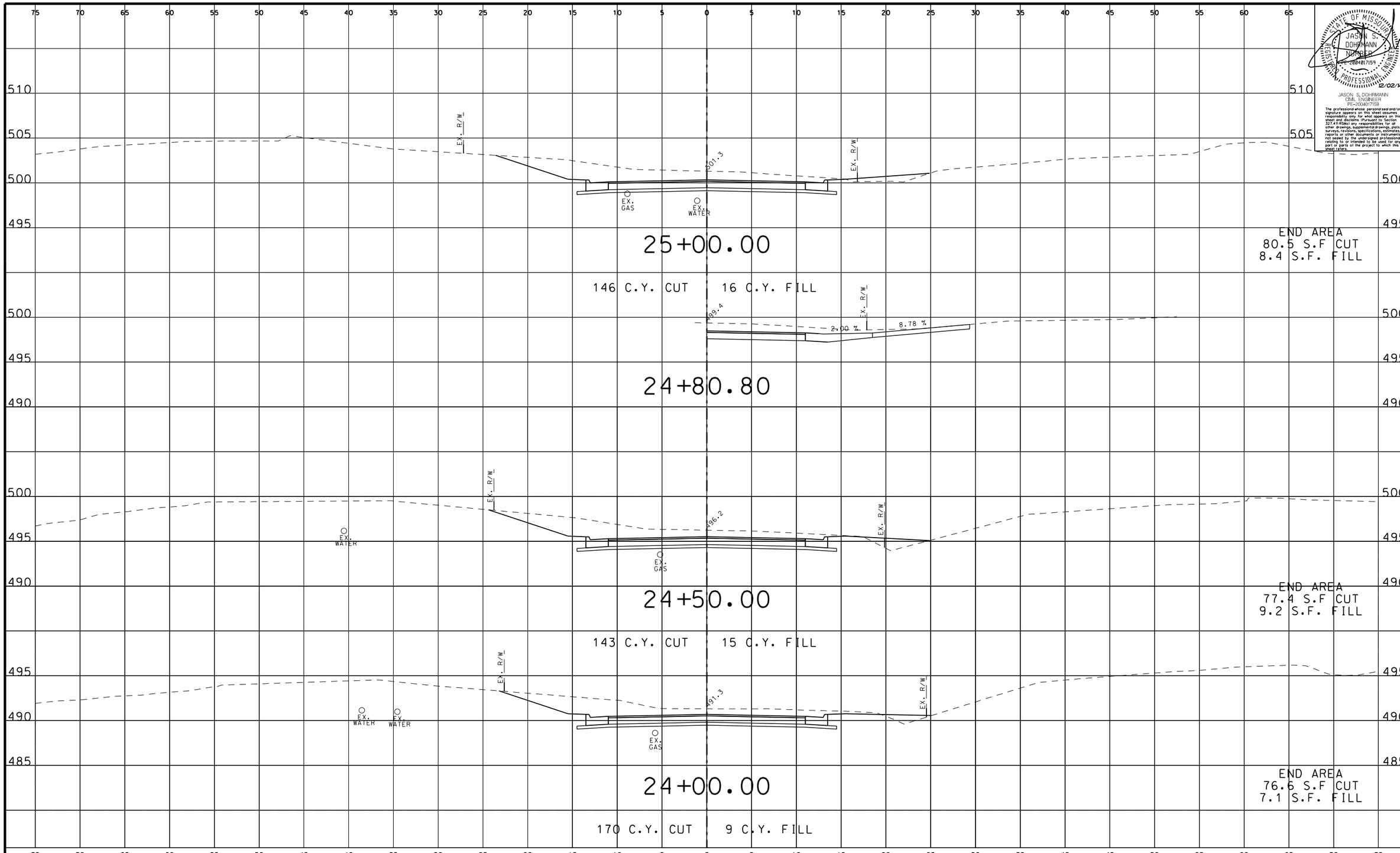
PROPOSED CROSS SECTIONS
SALINE ROAD

SHEET NO.
XS-08



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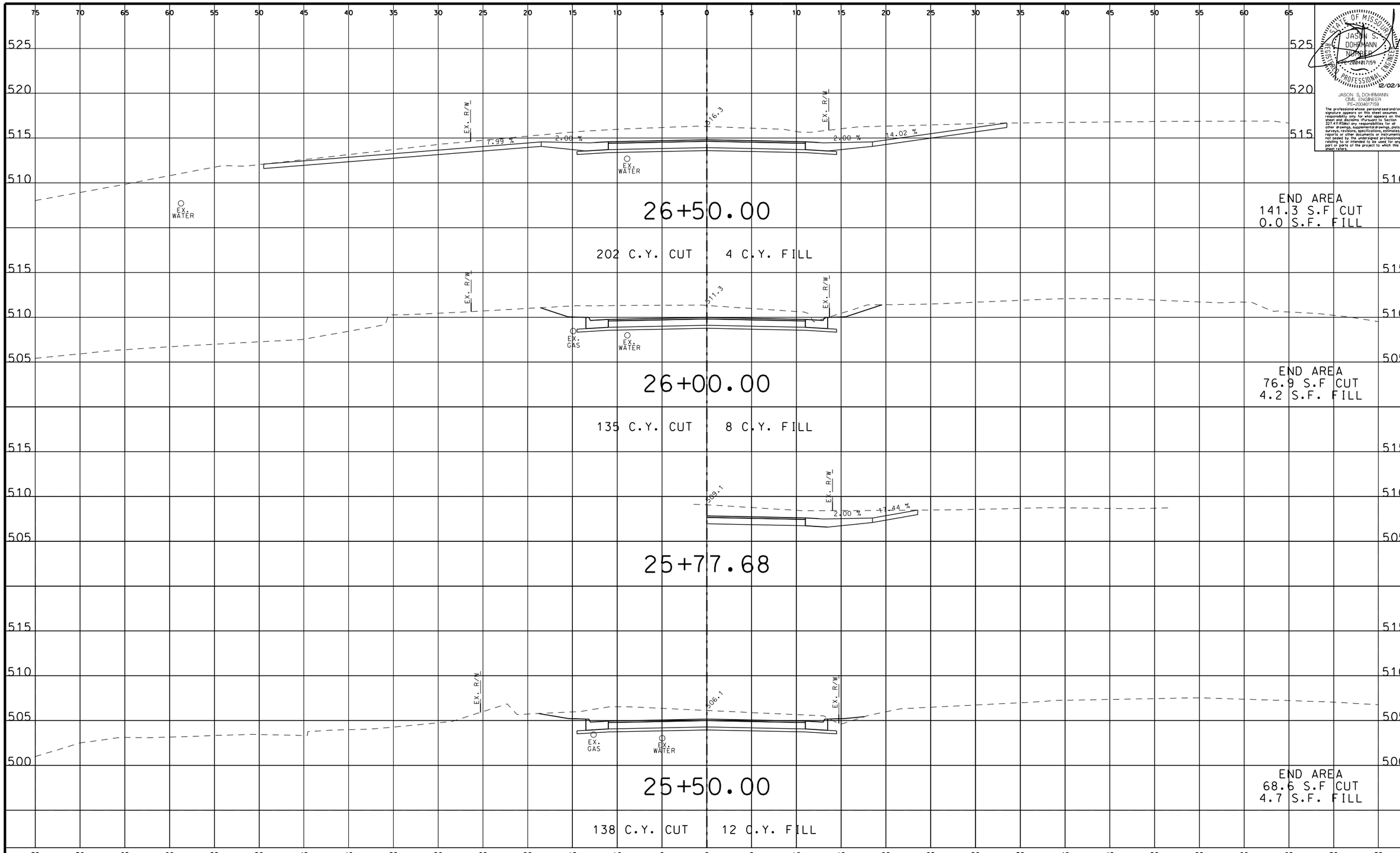
PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-09



STATE OF MISSOURI
JASON S. DOHRMANN
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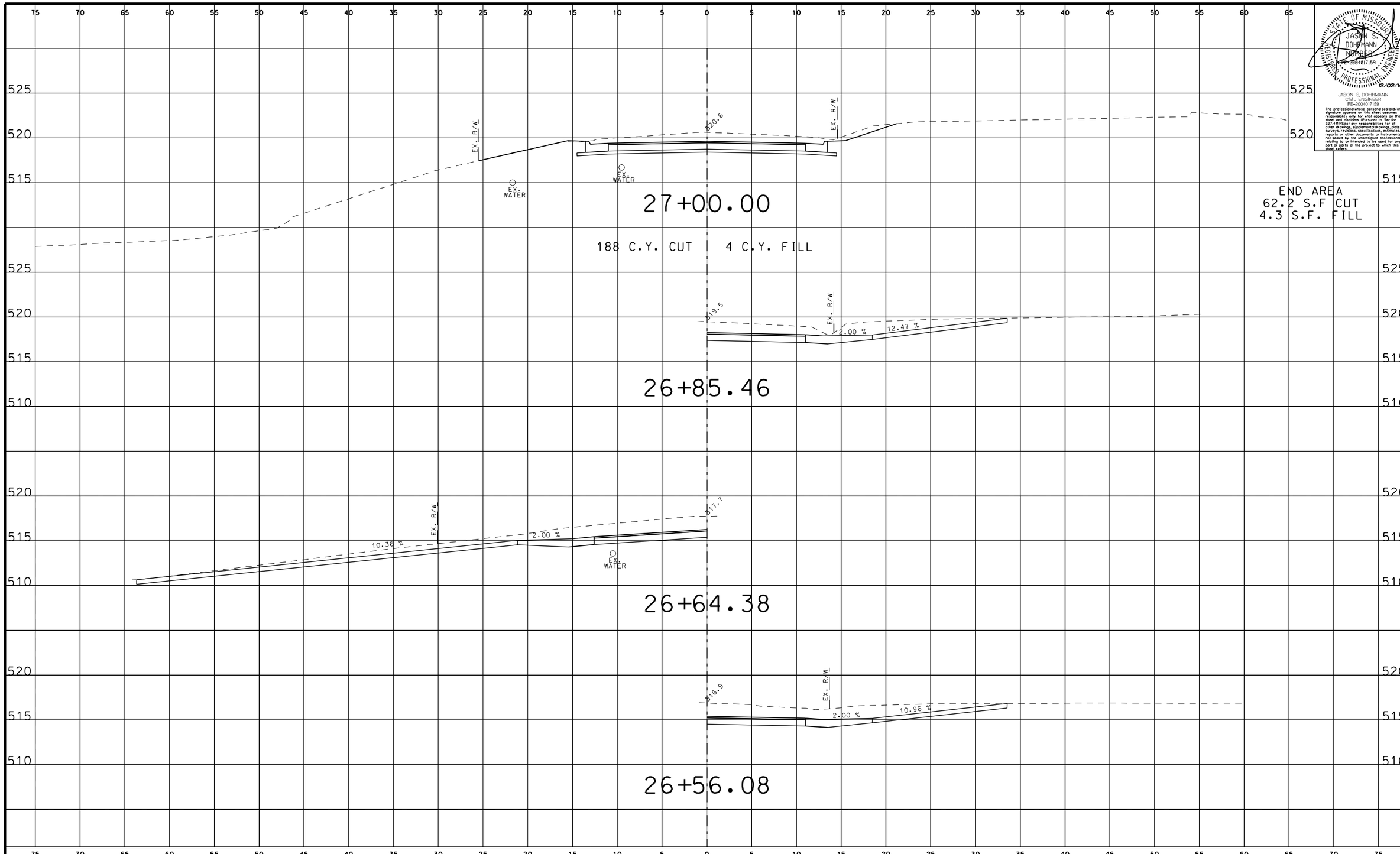
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-10
73 of 99



STATE OF MISSOURI
JASON S. DOHRMANN
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REGISTERED PROFESSIONAL ENGINEER
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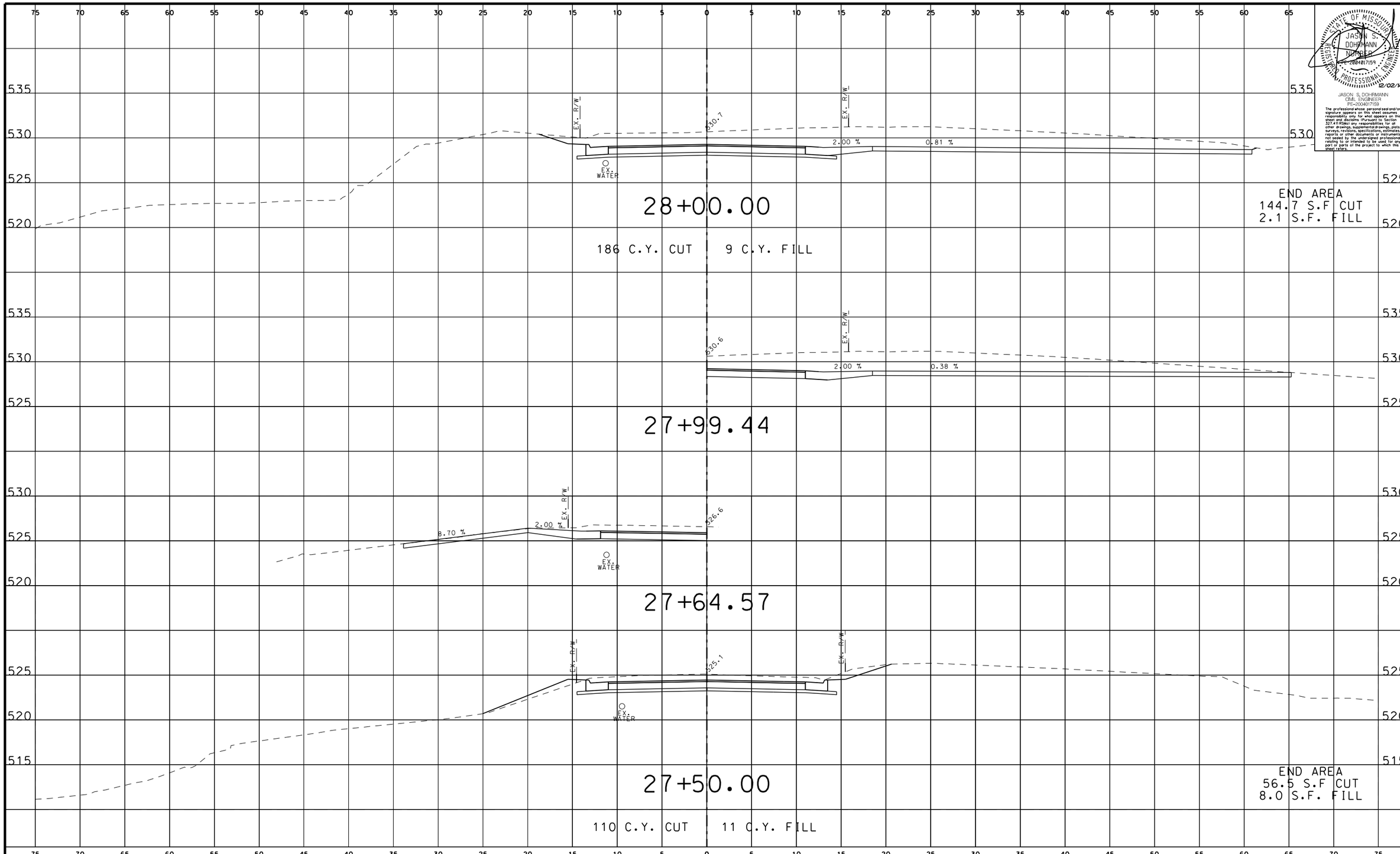
JEFFERSON COUNTY 1818 MISSOURI

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-11



STATE OF MISSOURI
JASON S. DOHRMANN
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REGISTERED PROFESSIONAL ENGINEER
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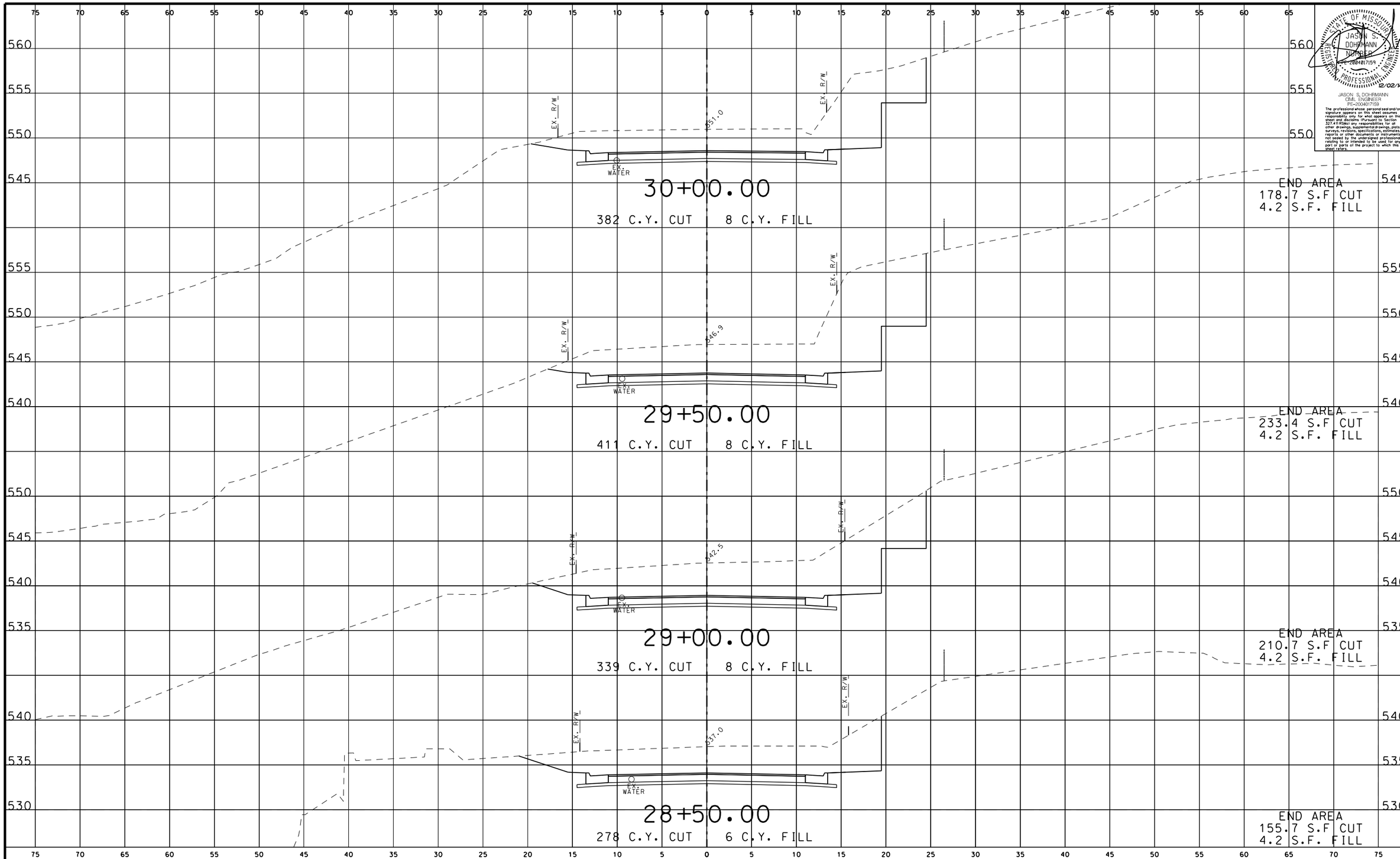
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-12
75 of 99



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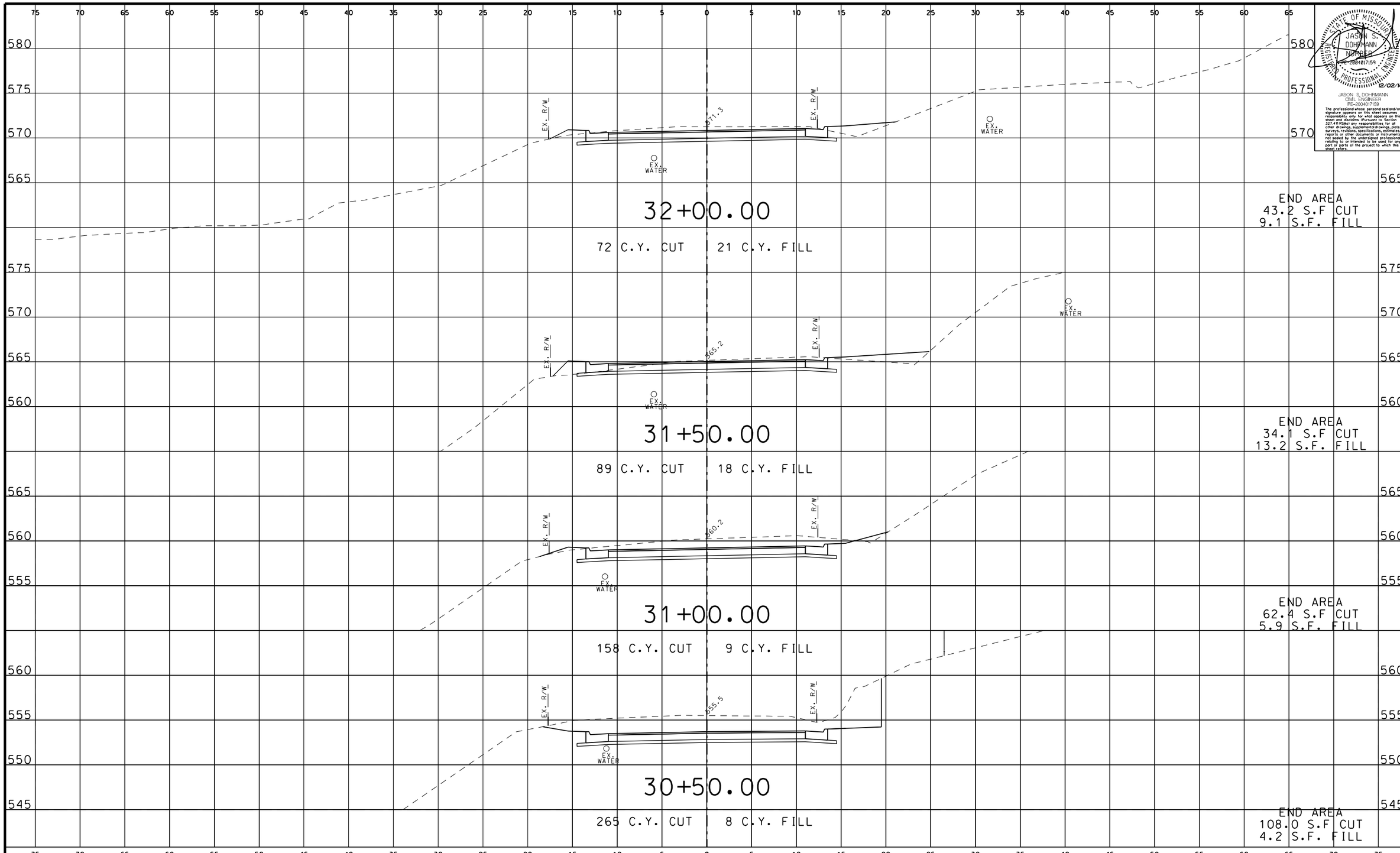
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS
SALINE ROAD

SHEET NO.
XS-13



STATE OF MISSOURI
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REGISTERED PROFESSIONAL ENGINEER
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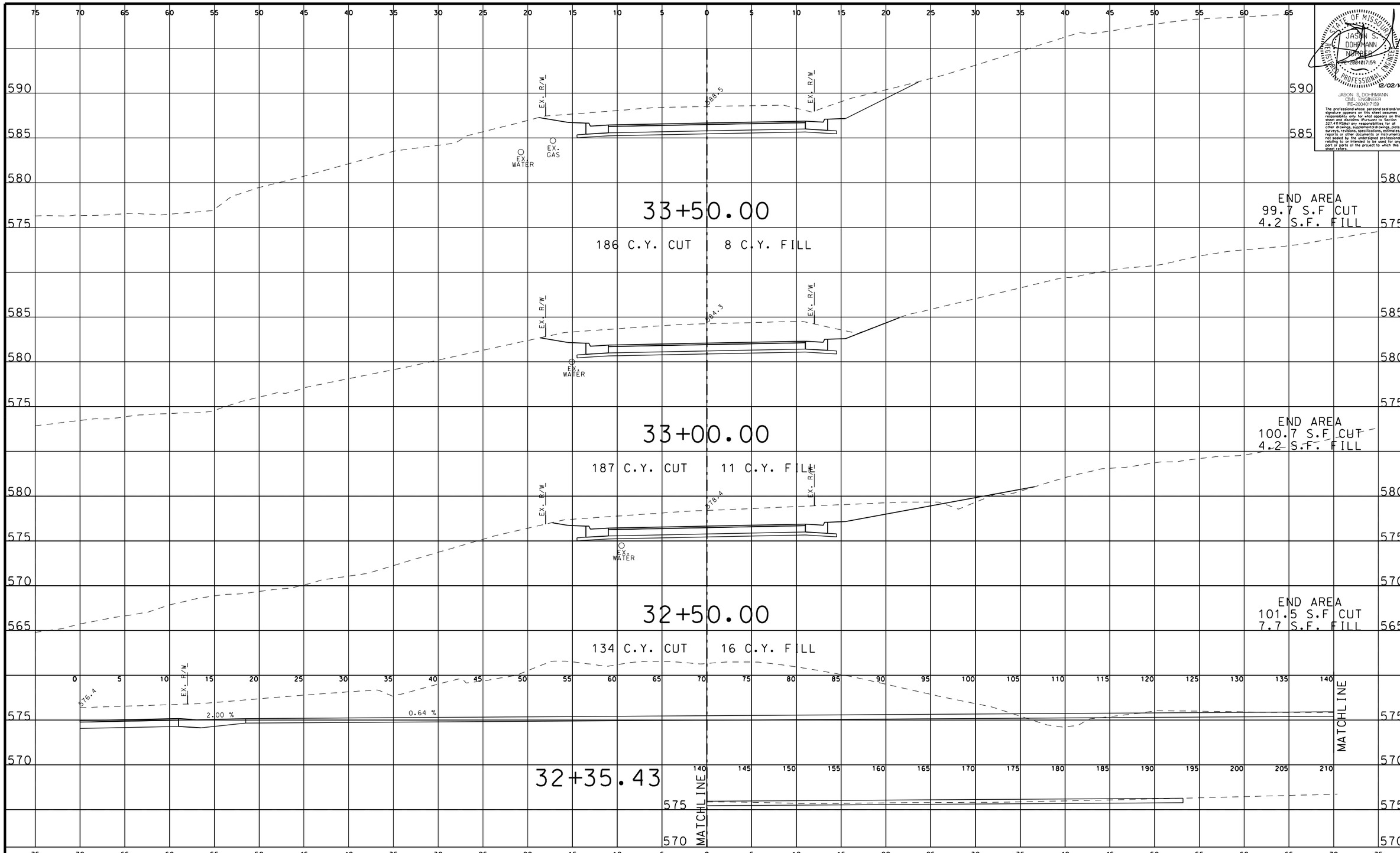
JEFFERSON COUNTY MISSOURI 1818

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-14
77 of 99



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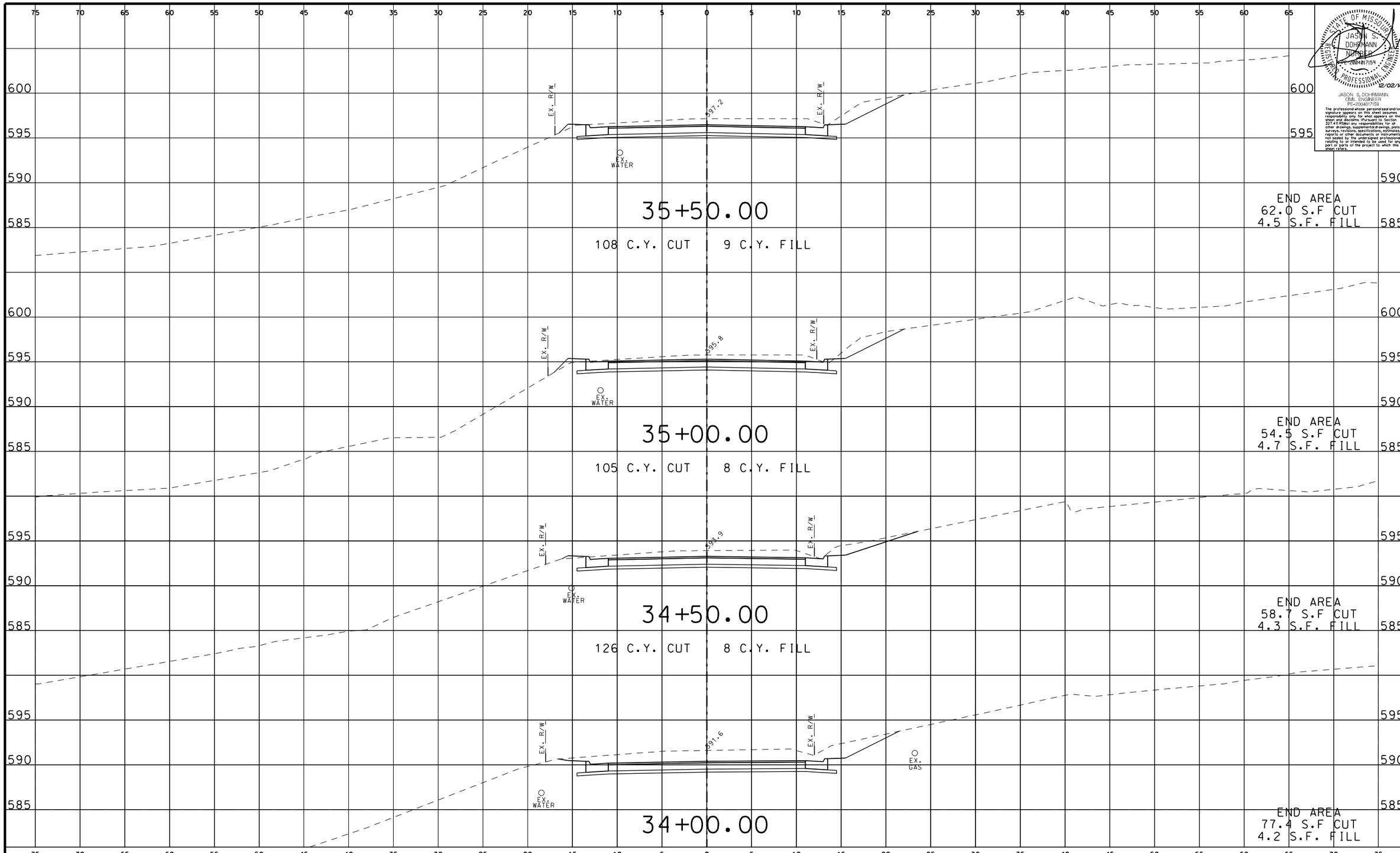
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-15



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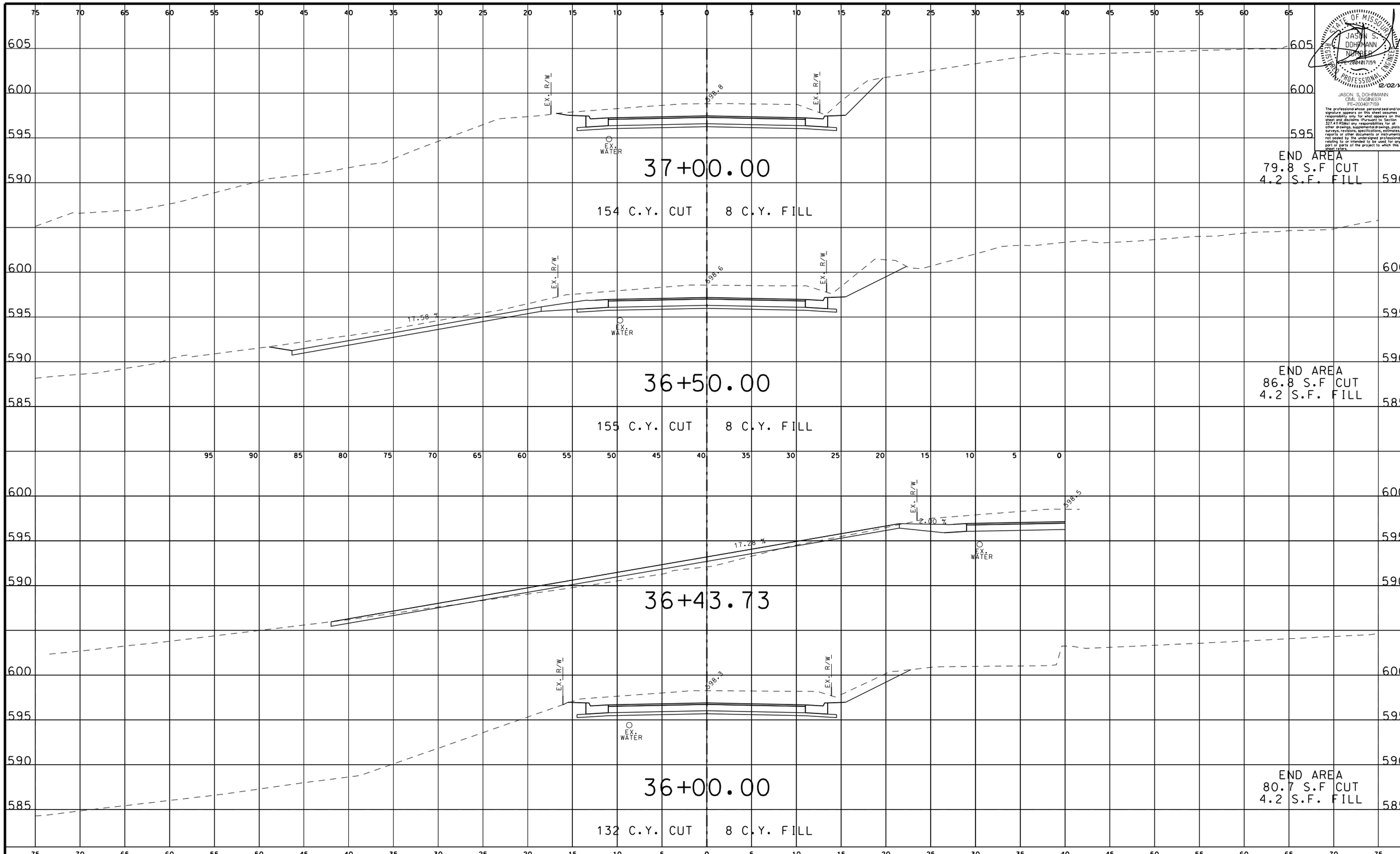
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-16
79 of 99



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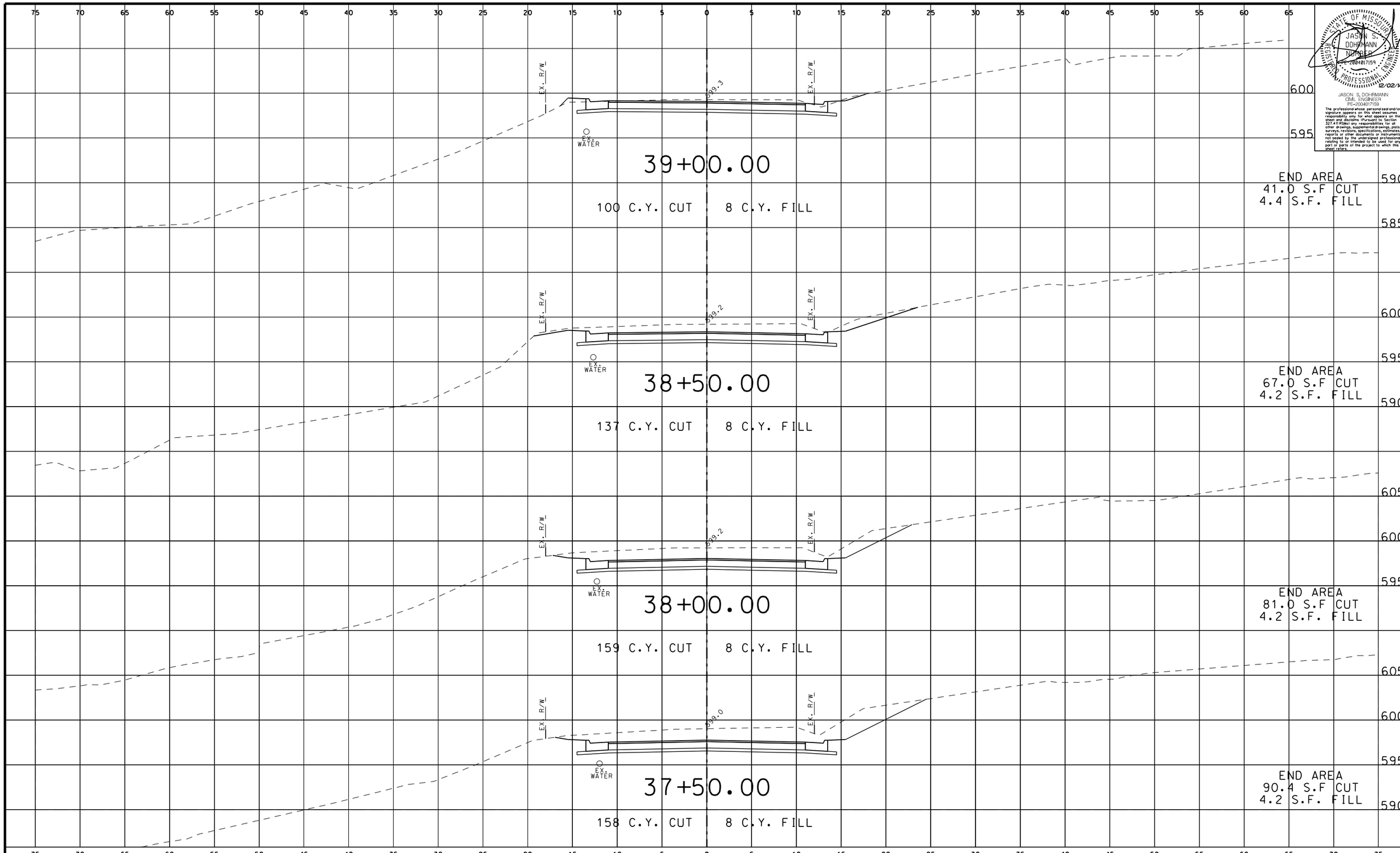
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS
SALINE ROAD

SHEET NO.
XS-17
80 of 99



STATE OF MISSOURI
JASON S. DOHRMANN
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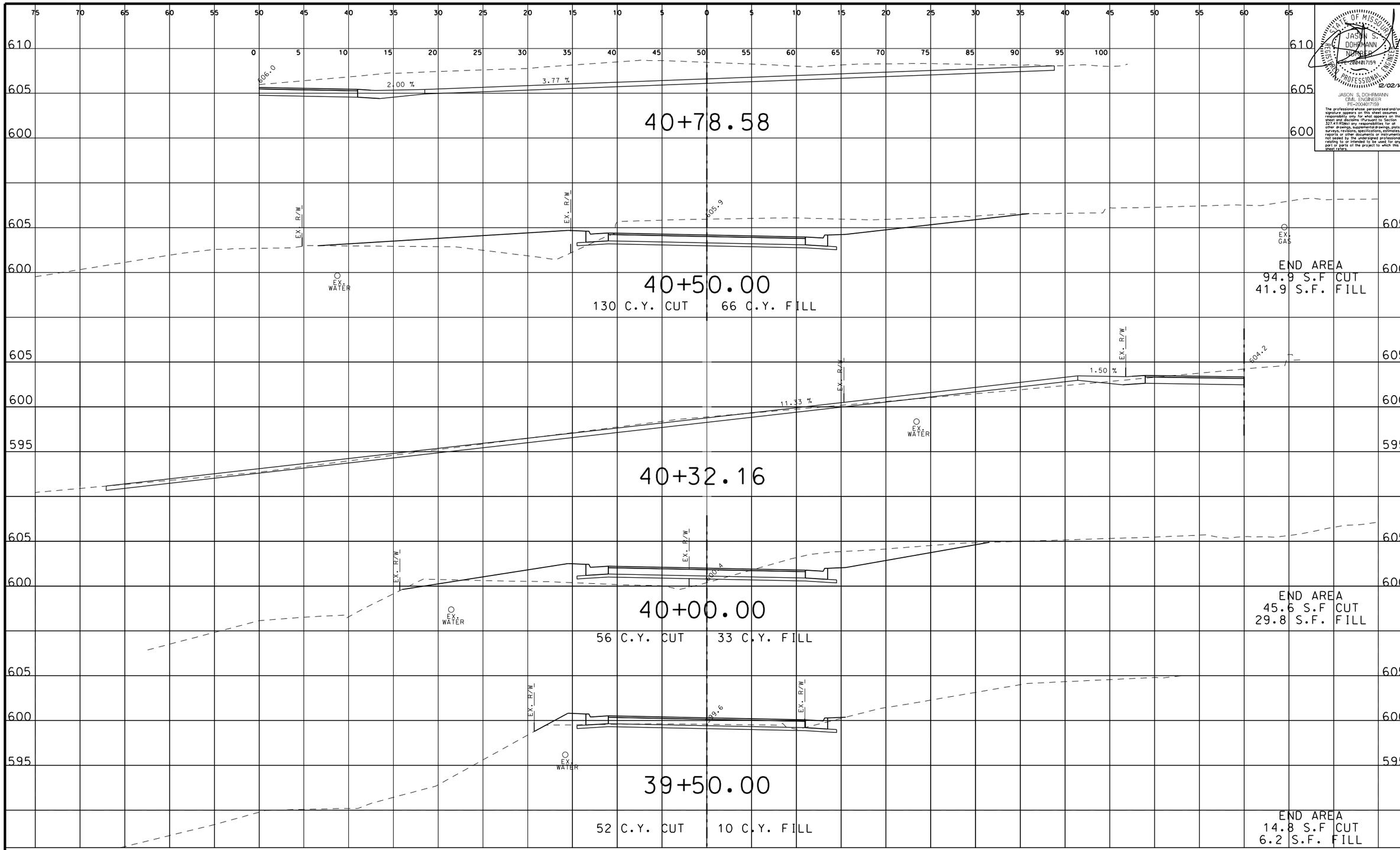
JEFFERSON COUNTY MISSOURI 1818

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-18
81 of 99



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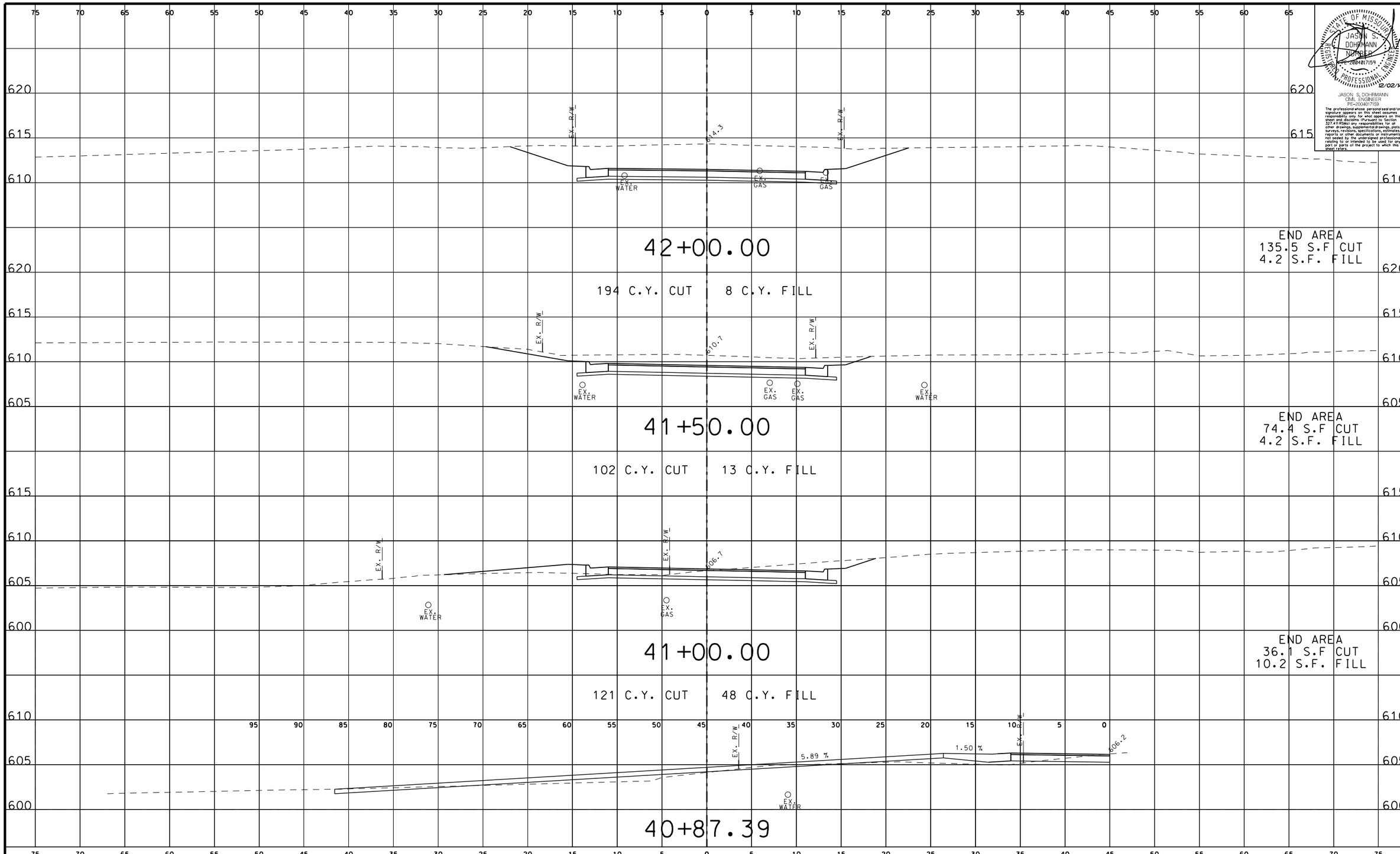
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS
SALINE ROAD

SHEET NO.
XS-19



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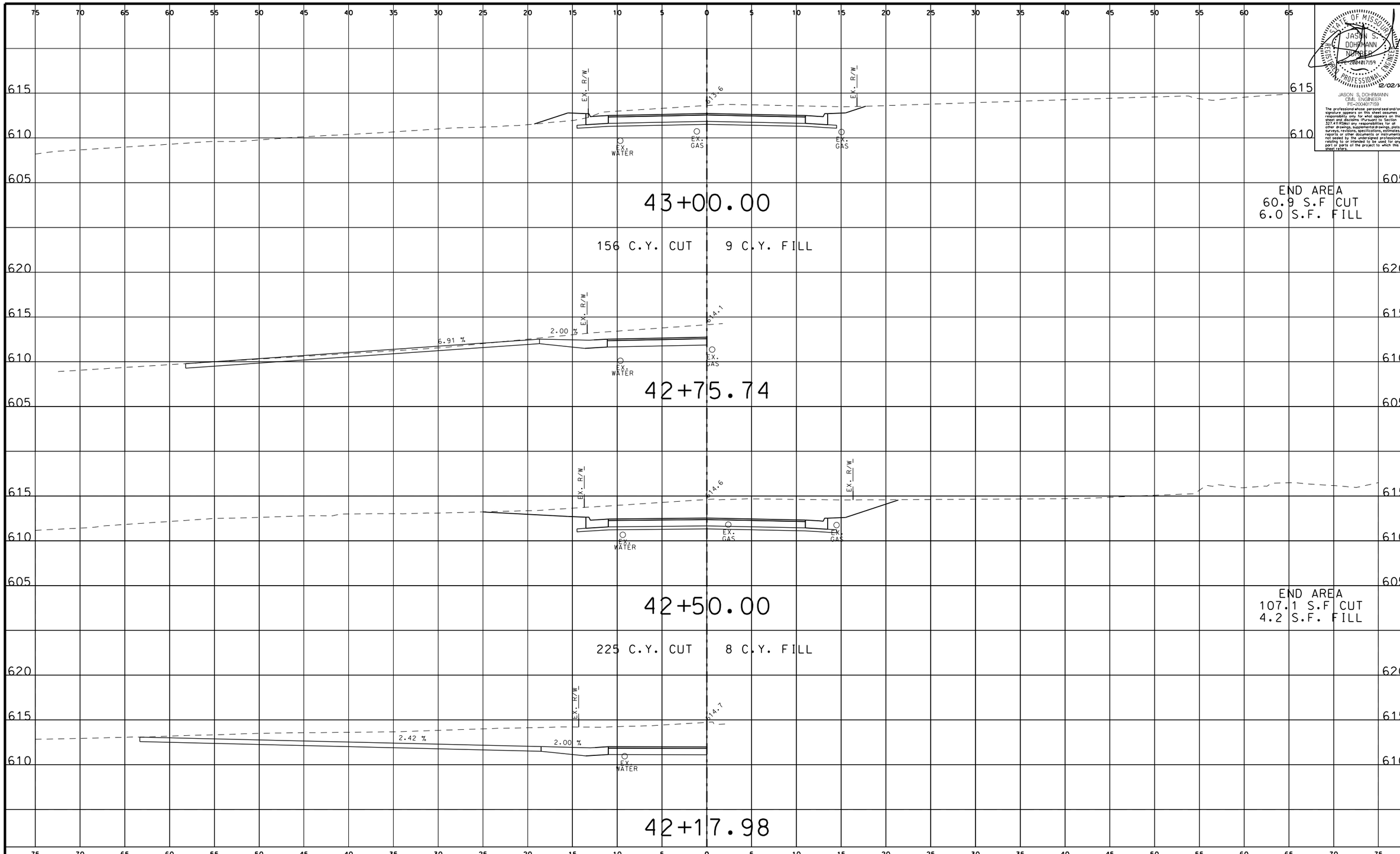
JEFFERSON COUNTY 1818 MISSOURI

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-20
83 of 99



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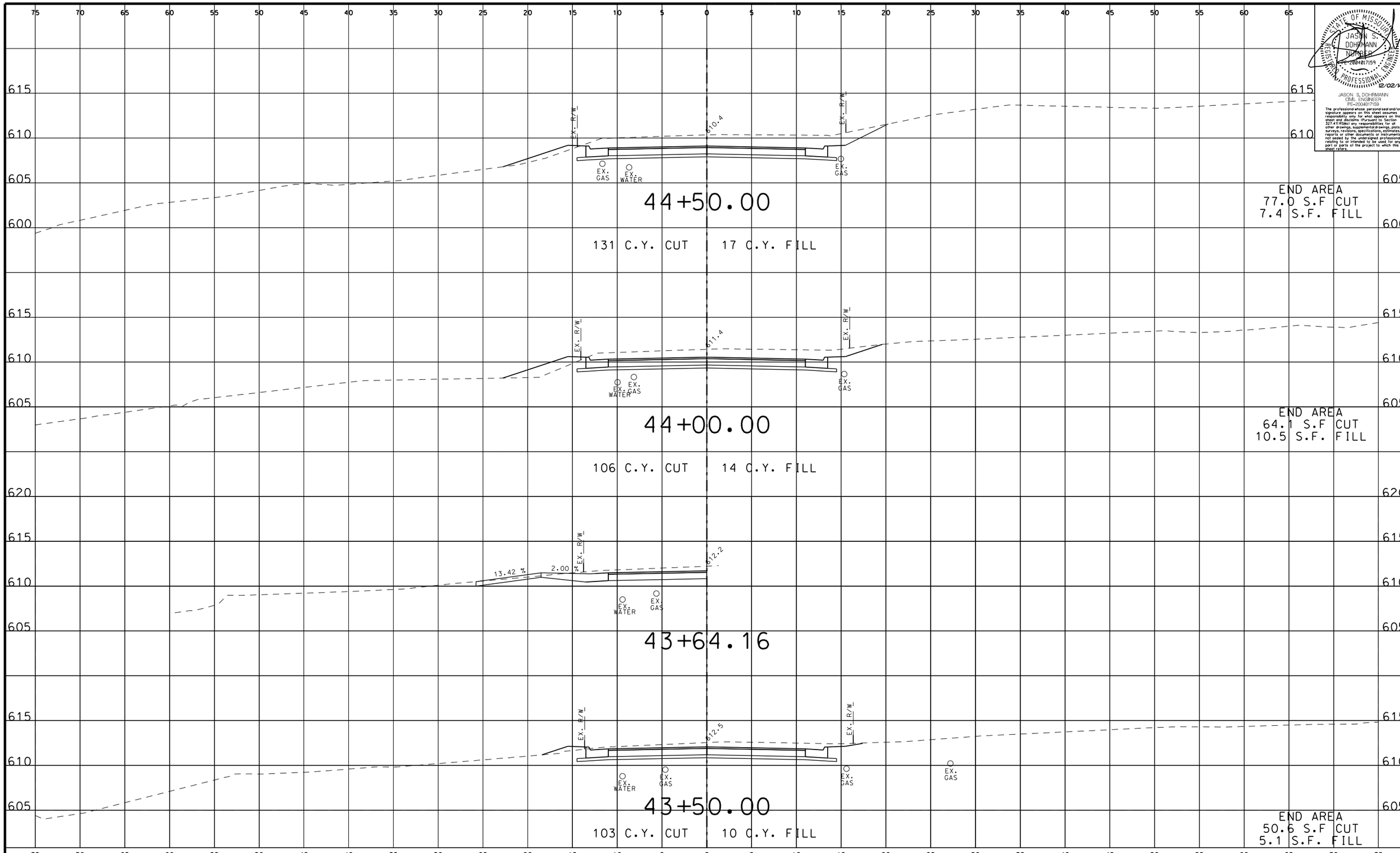
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-21
84 of 99



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COUNTY OF JEFFERSON, MISSOURI
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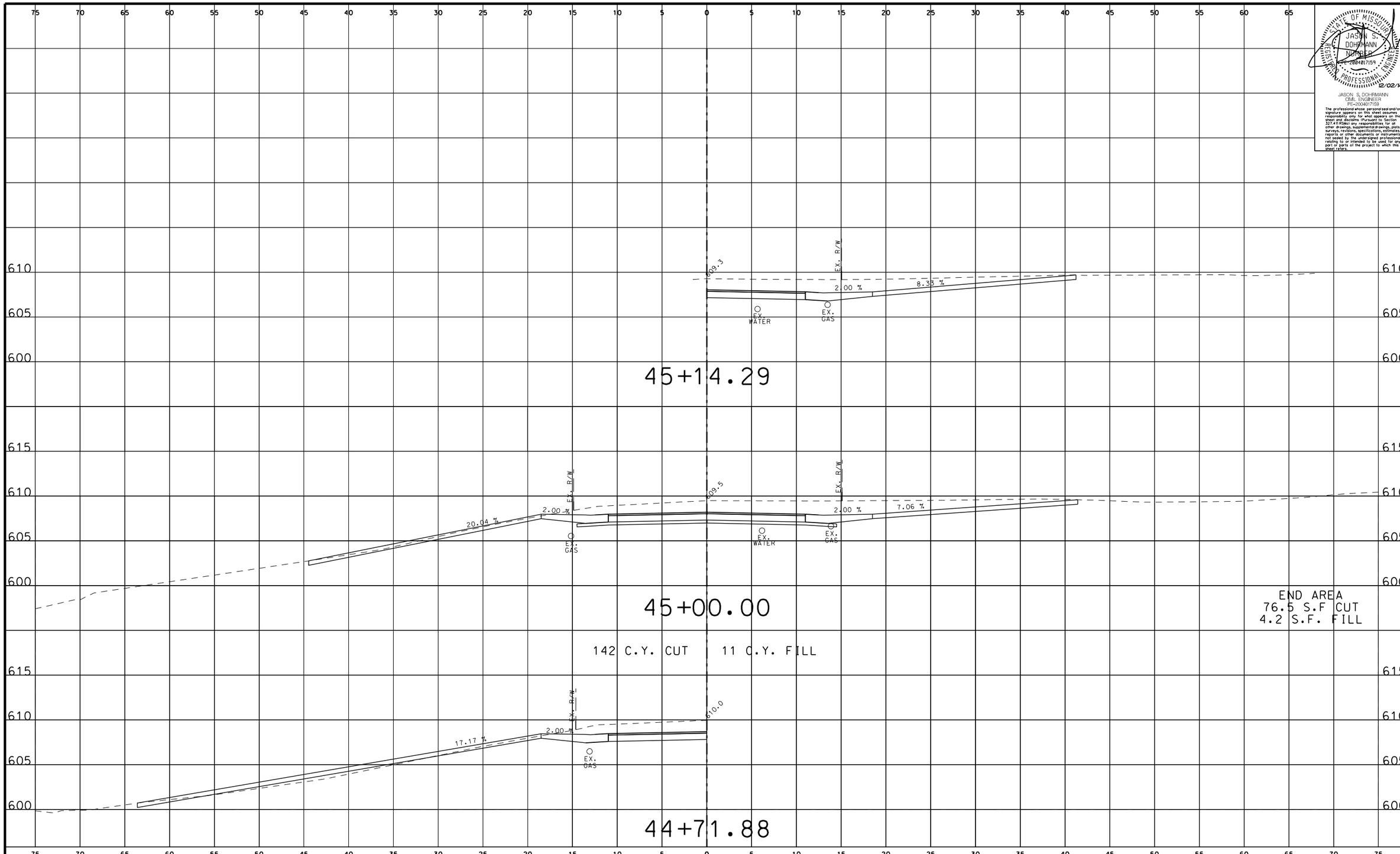
PROPOSED CROSS SECTIONS
SALINE ROAD

SHEET NO.
XS-22
85 of 99



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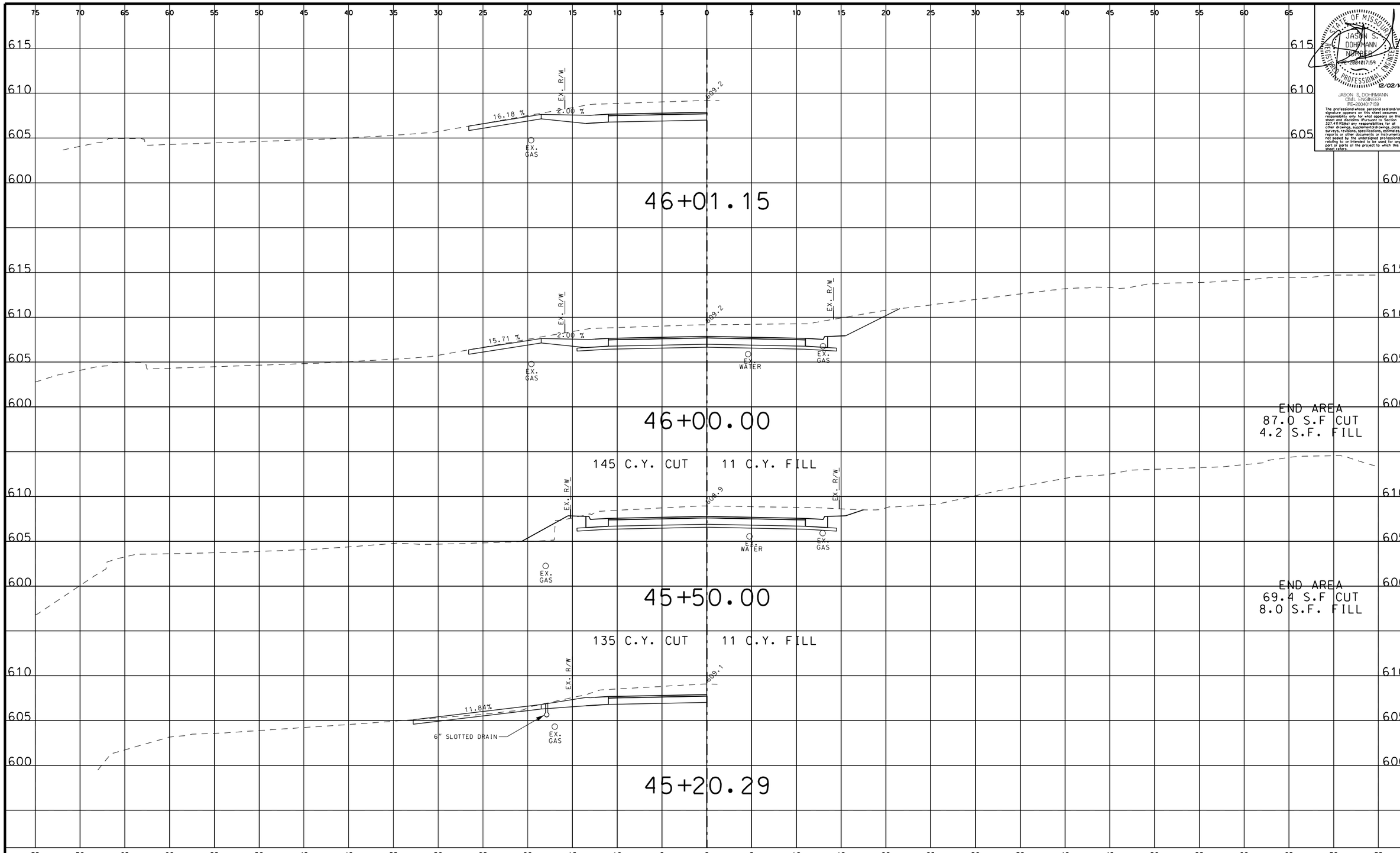
SALINE ROAD

SHEET NO.
XS-23



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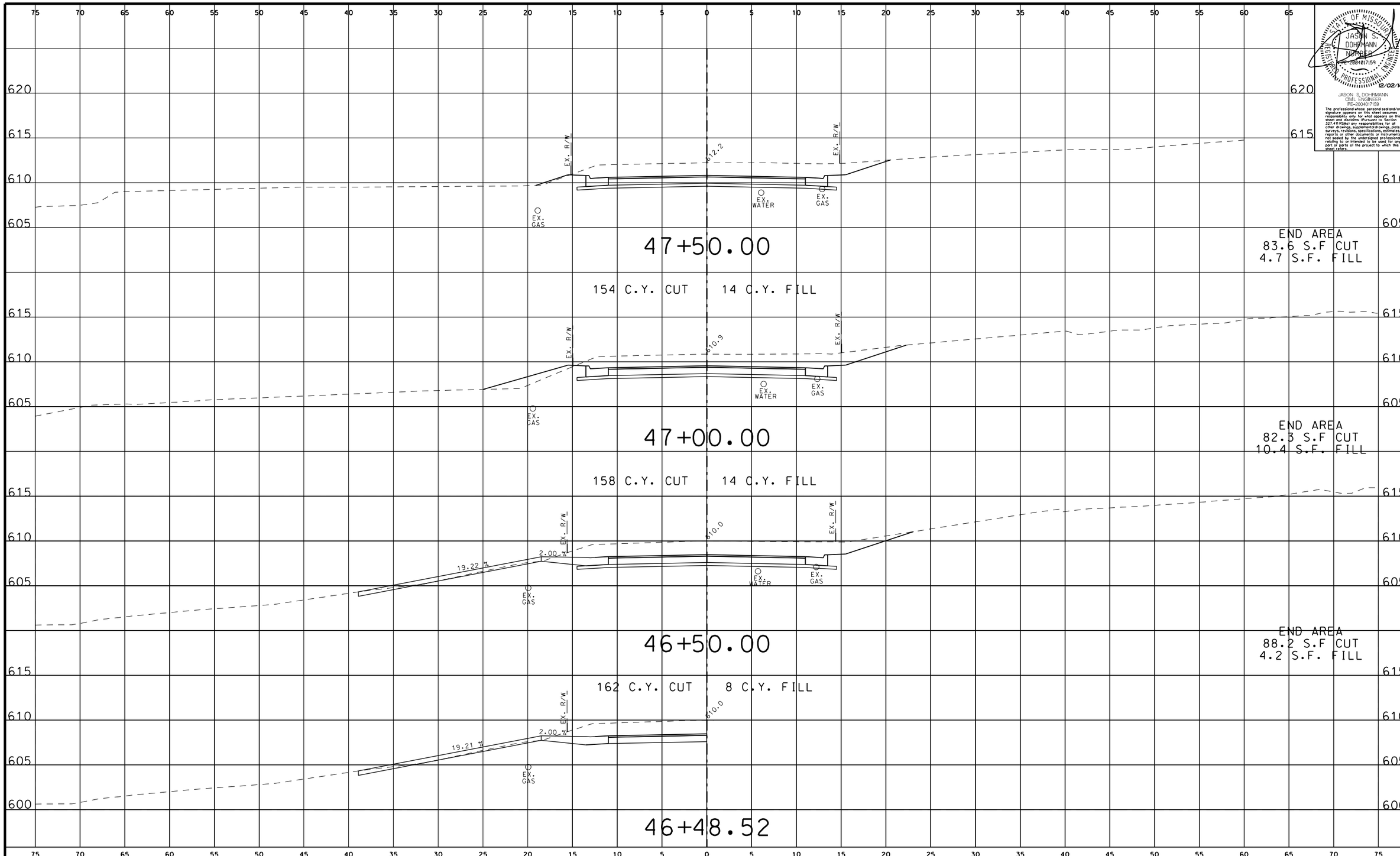
PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-24
87 of 99



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SALINE ROAD

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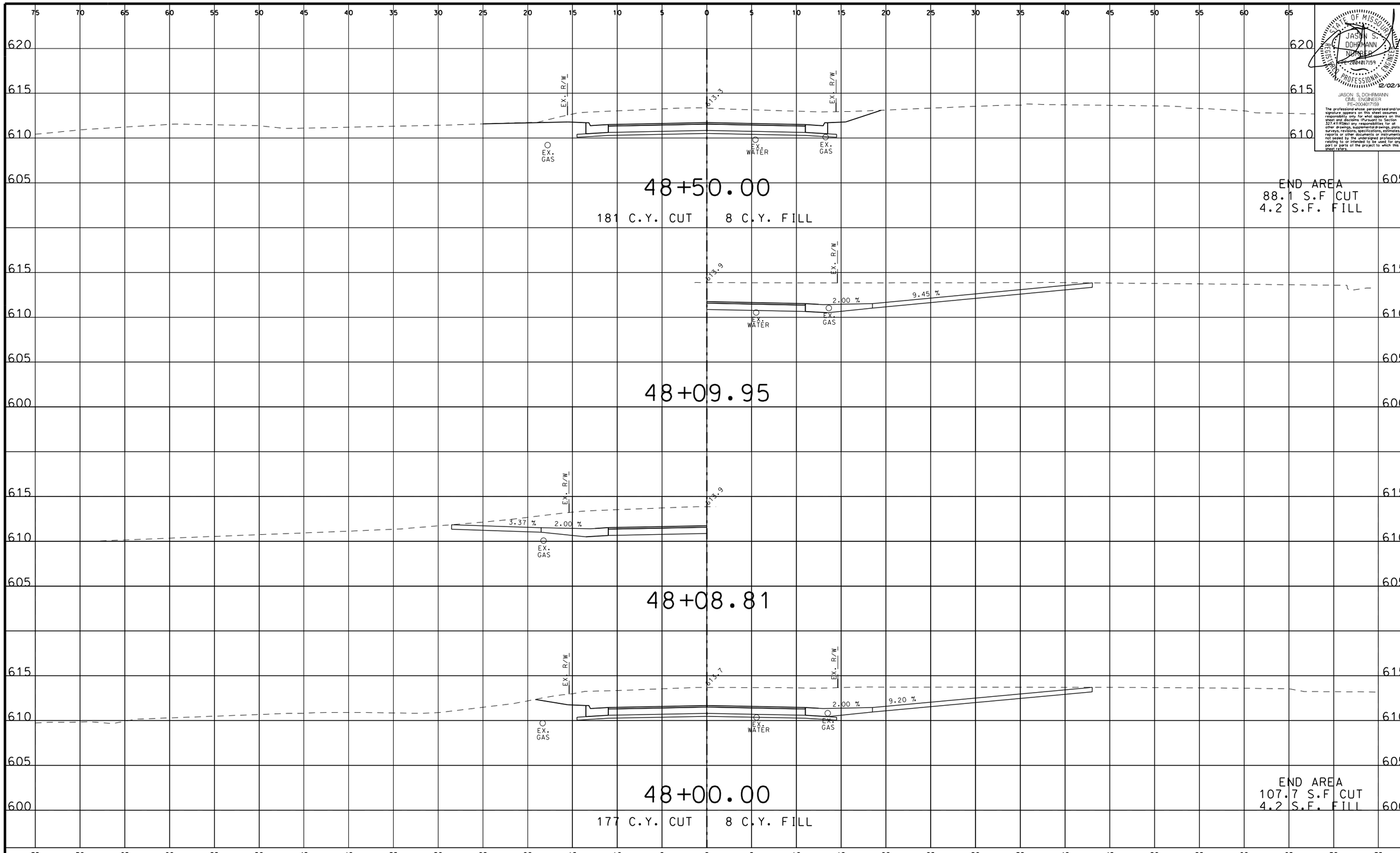
XS-25



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COUNTY OF JEFFERSON, MISSOURI
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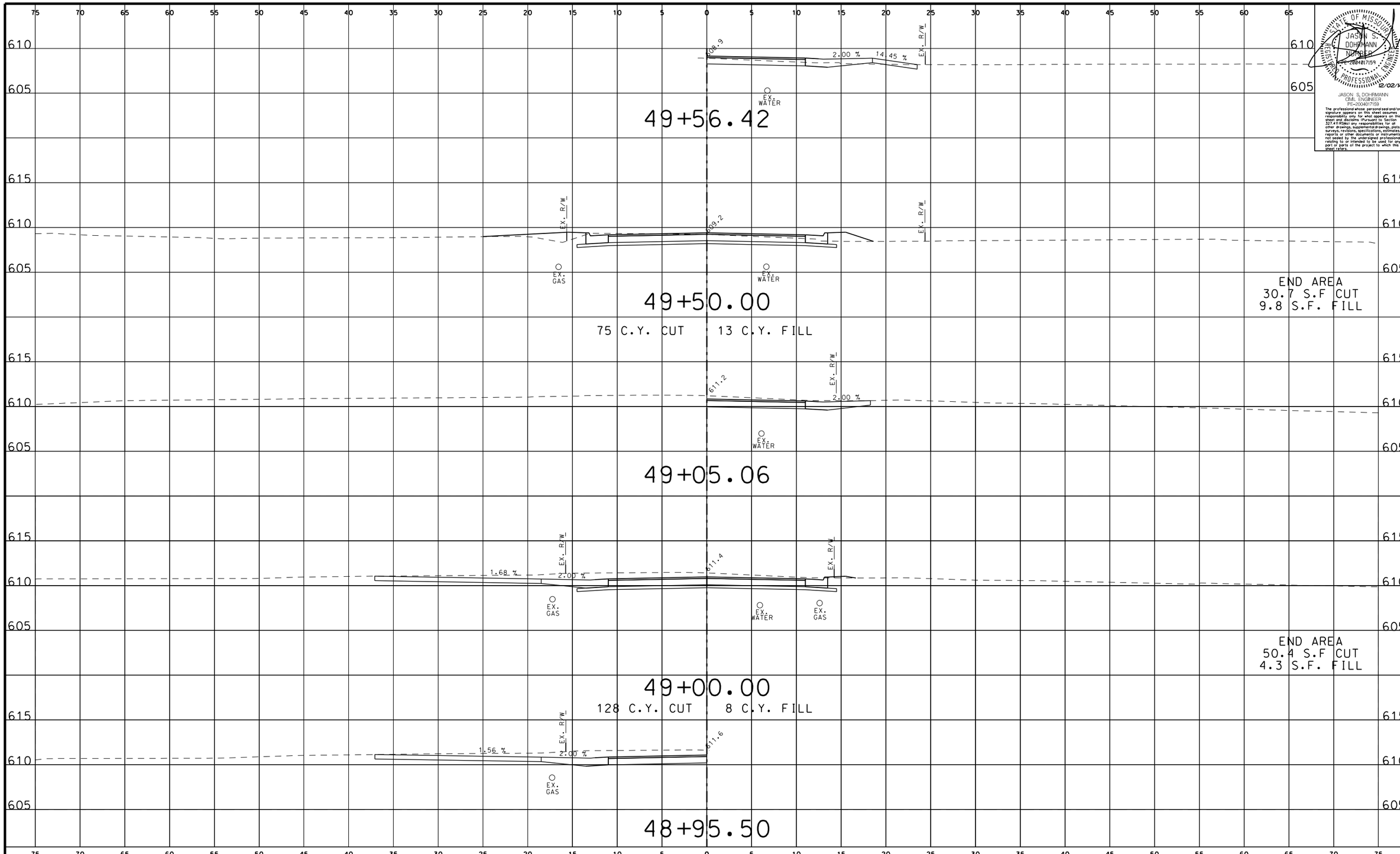
PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-26



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PROPOSED CROSS SECTIONS

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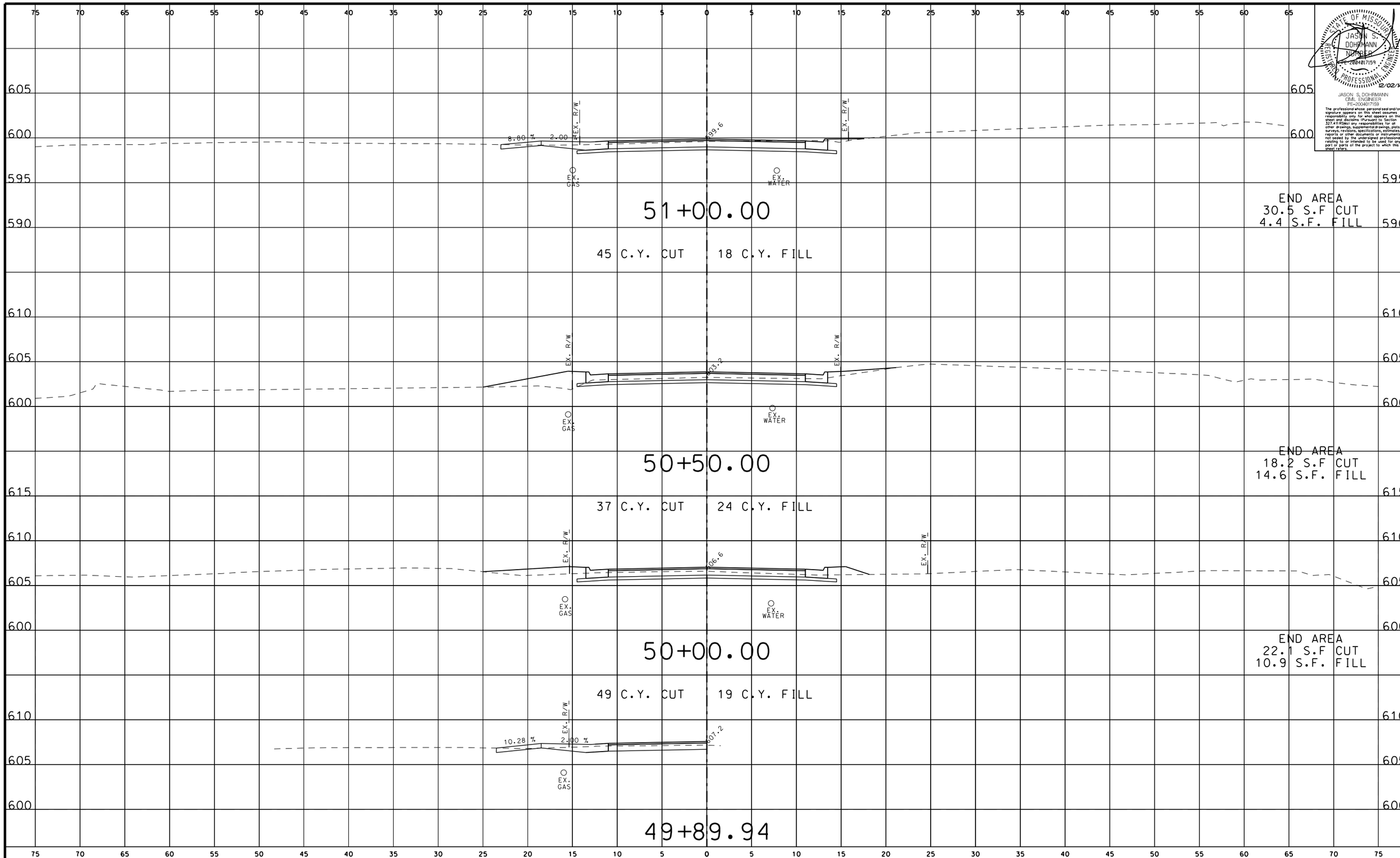
SHEET NO.
XS-27



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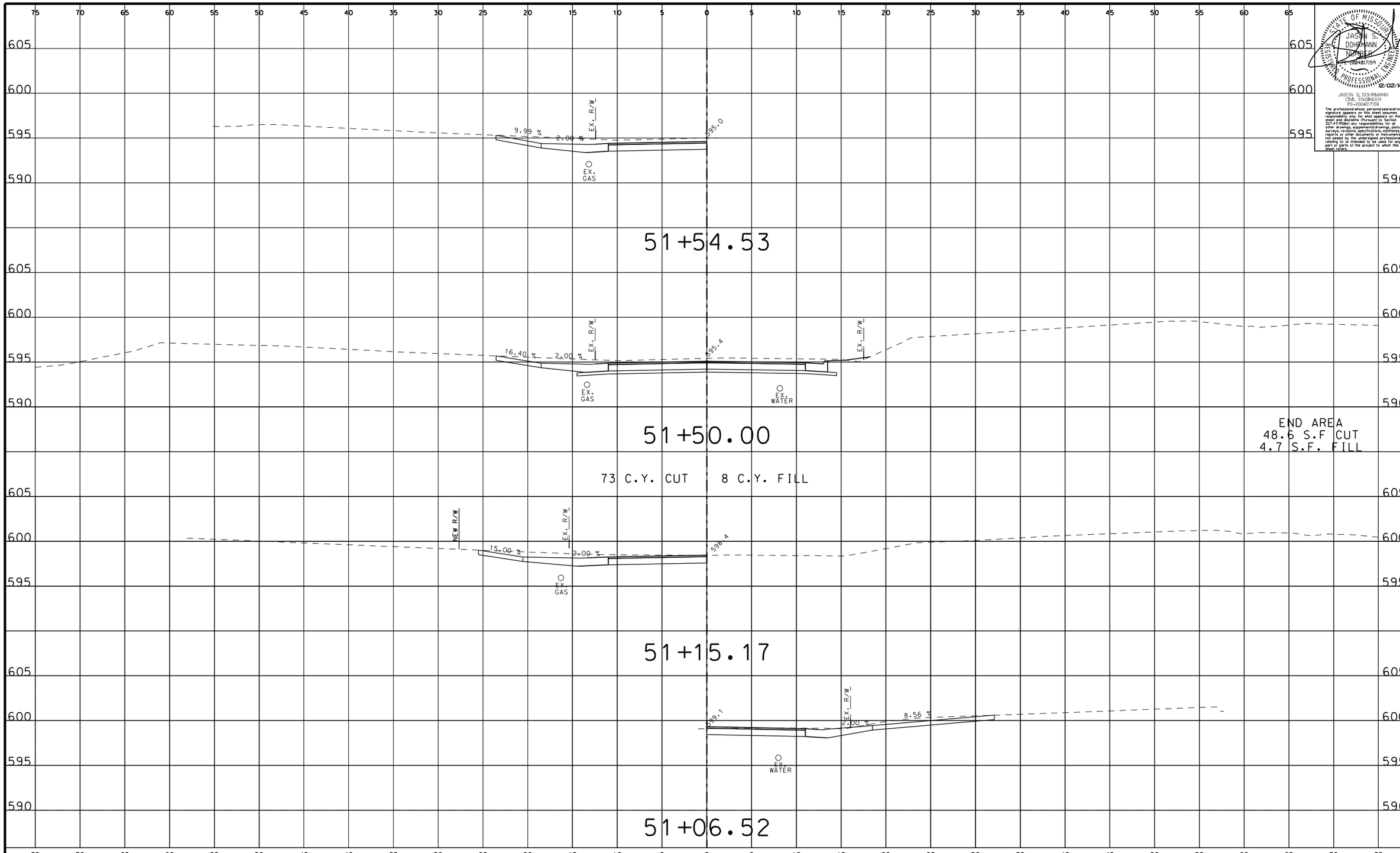
PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-28



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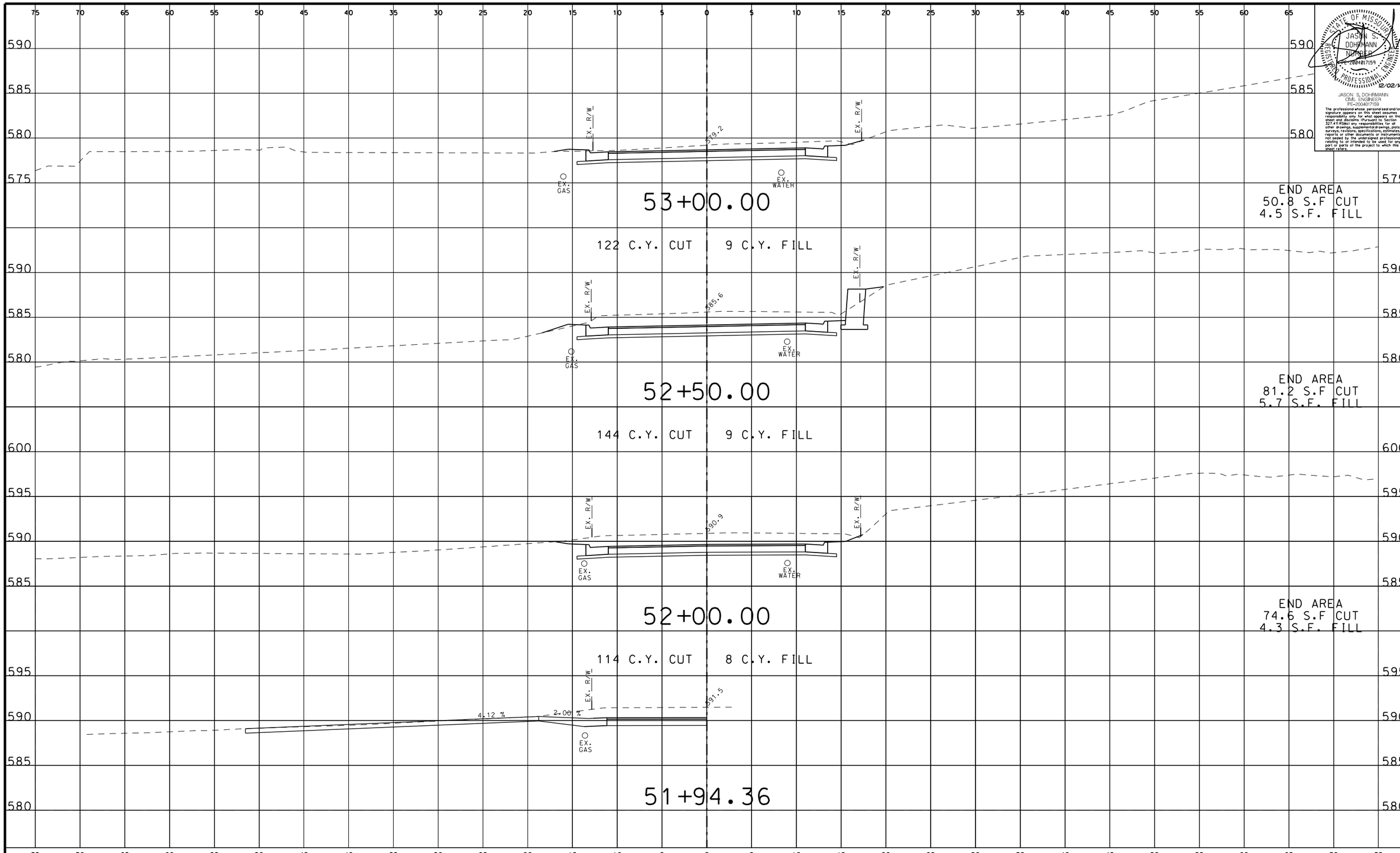
PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-29



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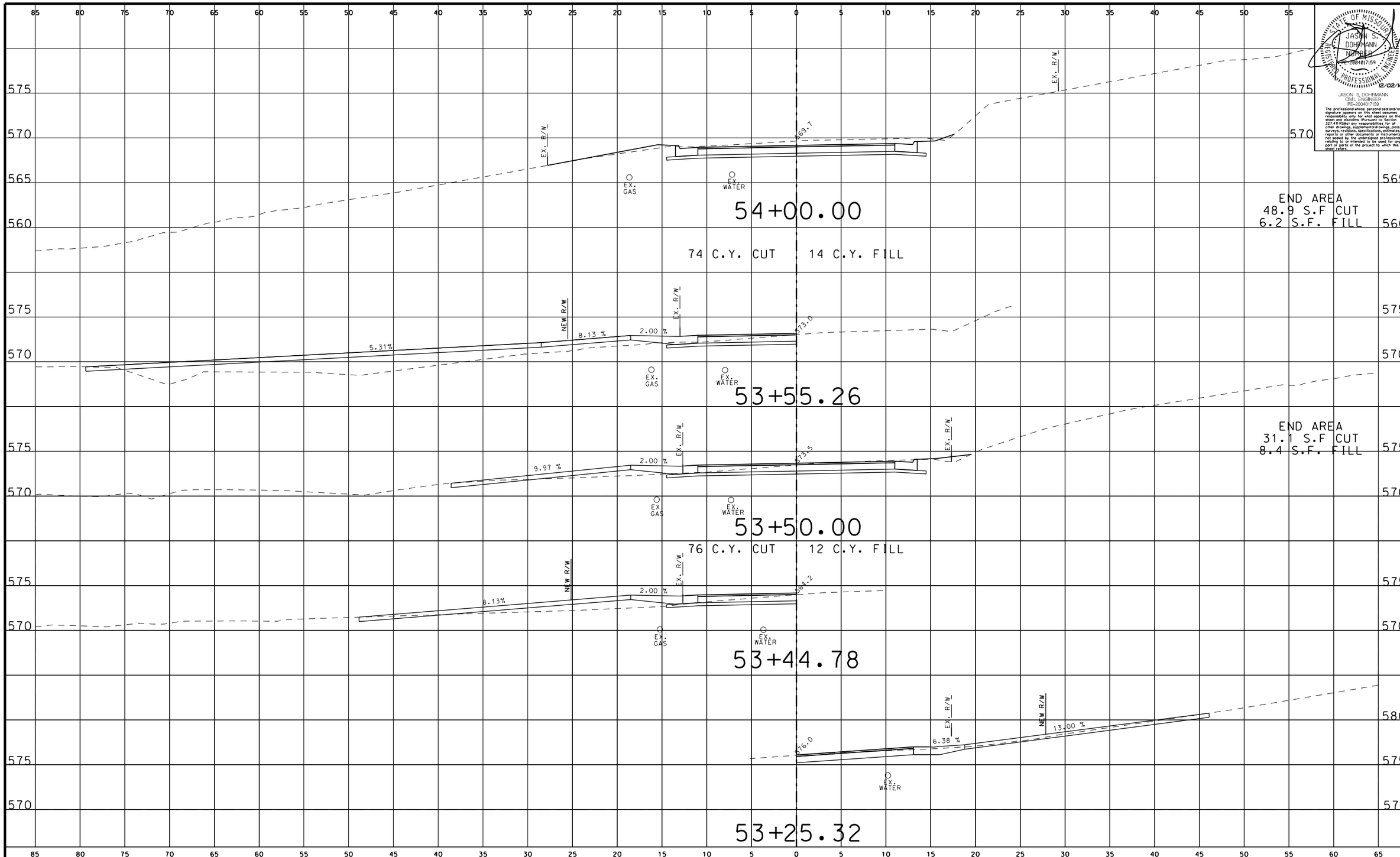
JEFFERSON COUNTY MISSOURI 1818

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-30
93 of 99



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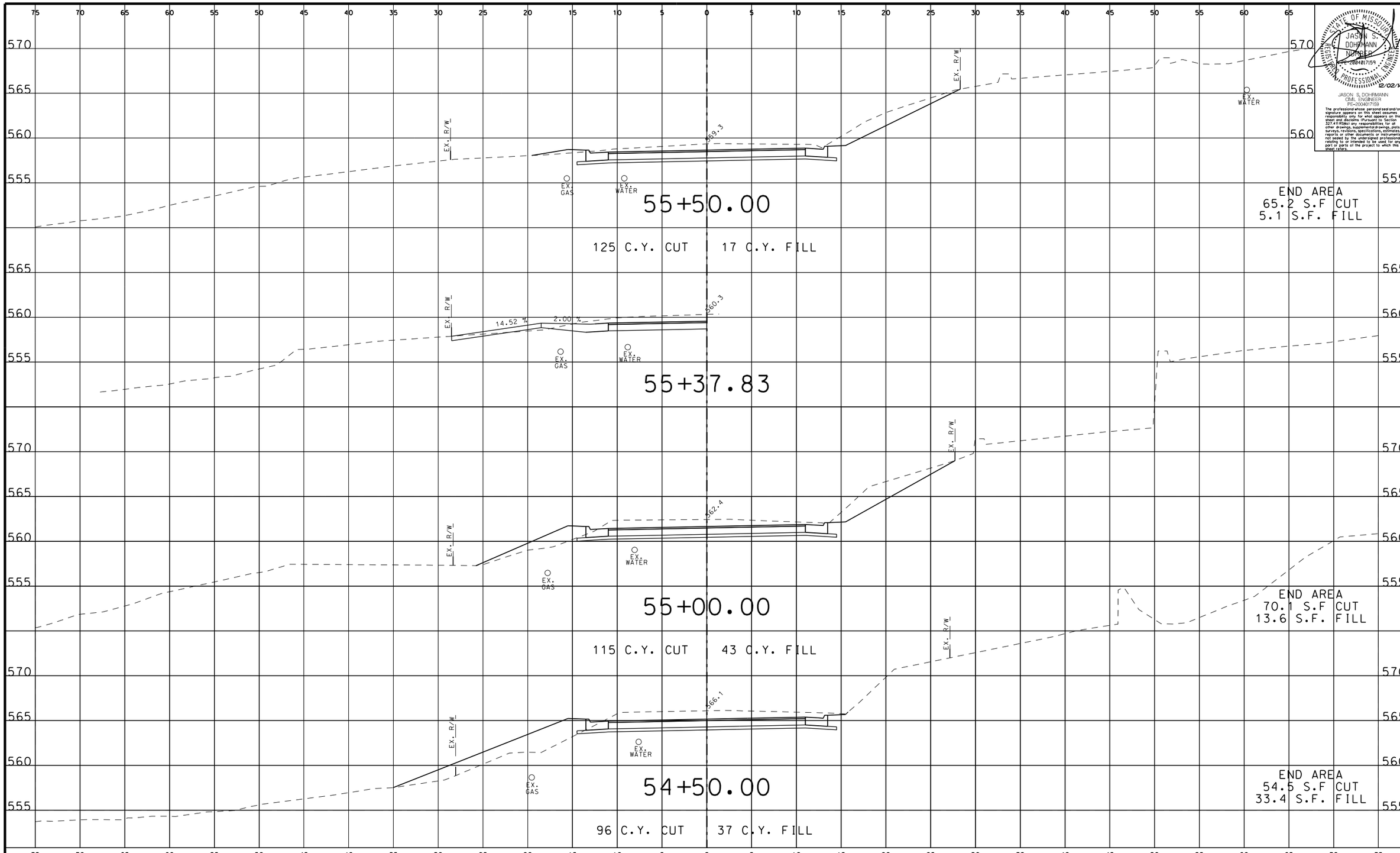
PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-31
94 of 99



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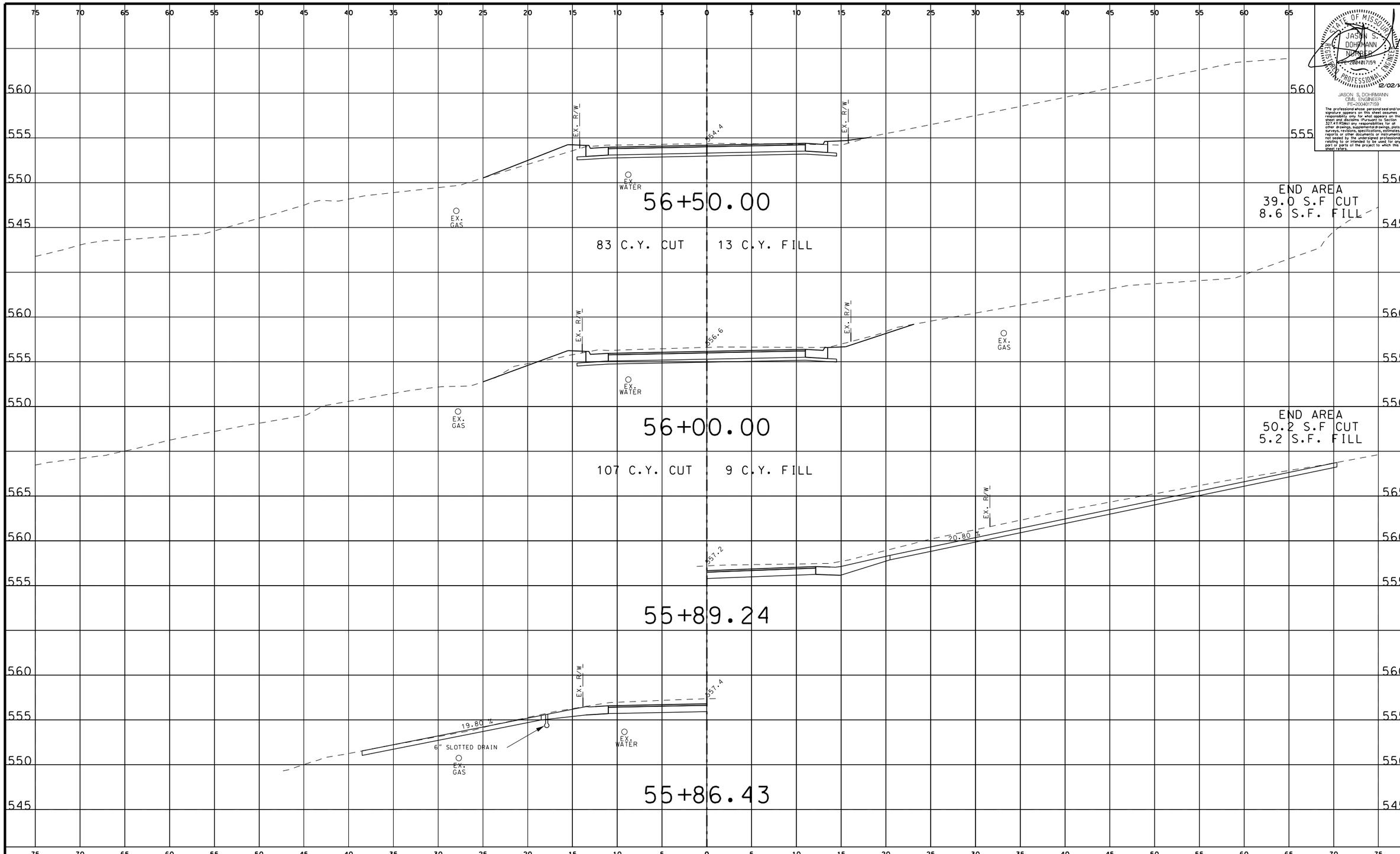
PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-32
95 of 99



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12/02/14

JASON S. DOHRMANN
CIVIL ENGINEER
PE-2004017159

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APPROVED: JSD	JOB NUMBER:	75110022	
CAD DATE: 2/5/2015	9:08:44 AM		
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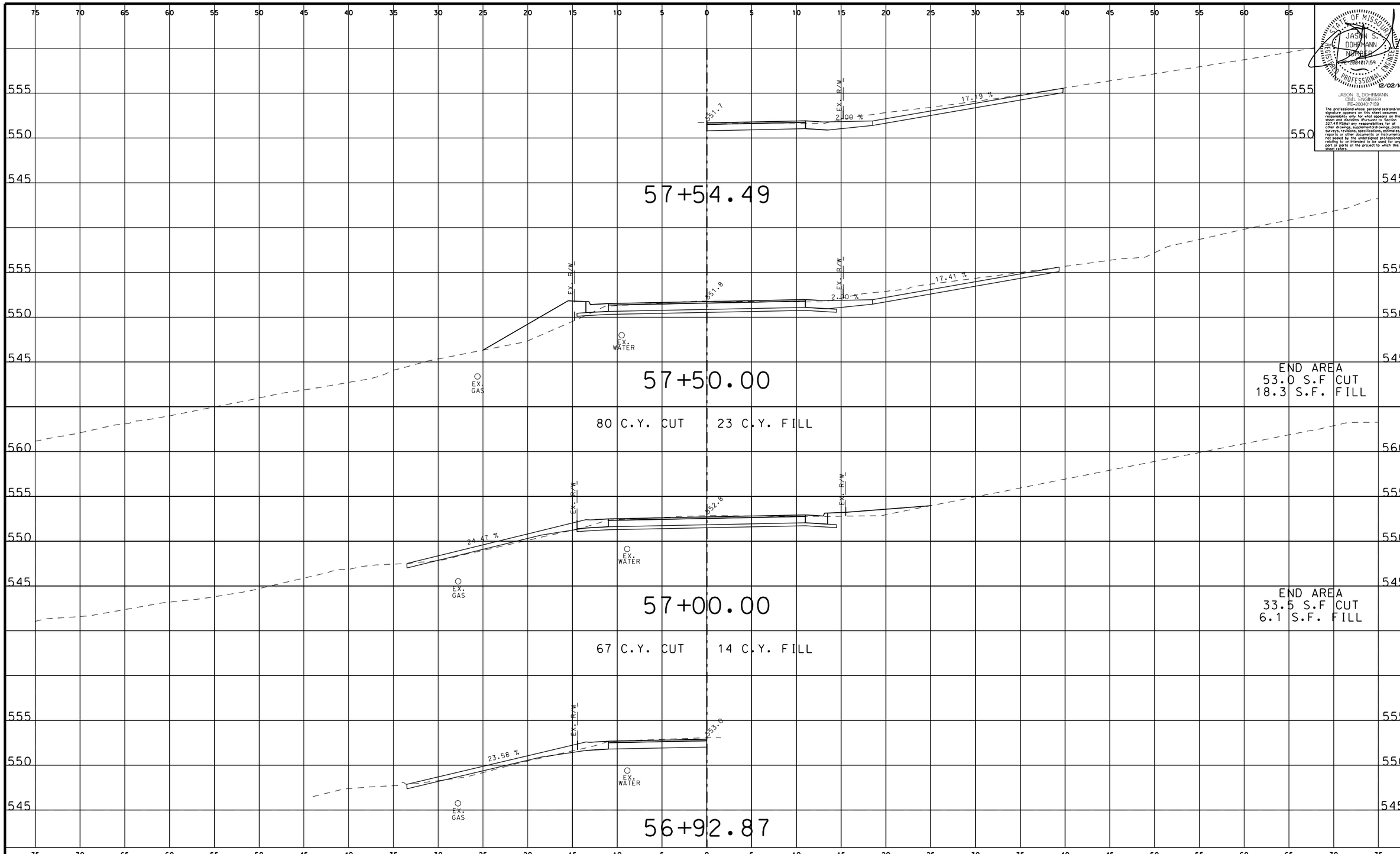
16020 SWINGLEY RIDGE ROAD, SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS
SALINE ROAD

SHEET NO.
XS-33



STATE OF MISSOURI
JASON S. DOHRMANN
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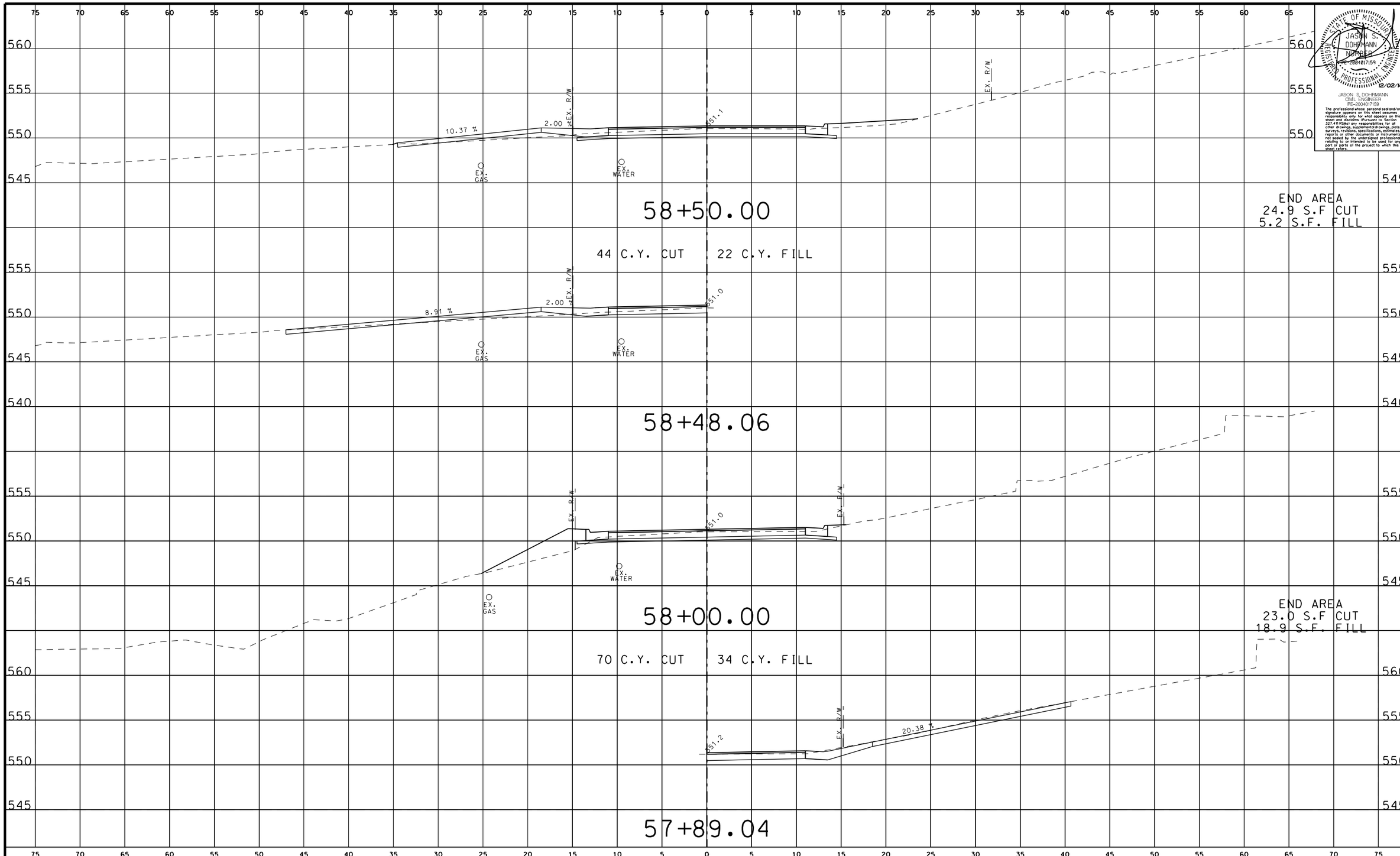
JEFFERSON COUNTY MISSOURI 1818

SALINE ROAD IMPROVEMENTS-PHASE 1
COUNTY OF JEFFERSON, MISSOURI
5403(642)/TIP#5589-12

PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-34
97 of 99



STATE OF MISSOURI
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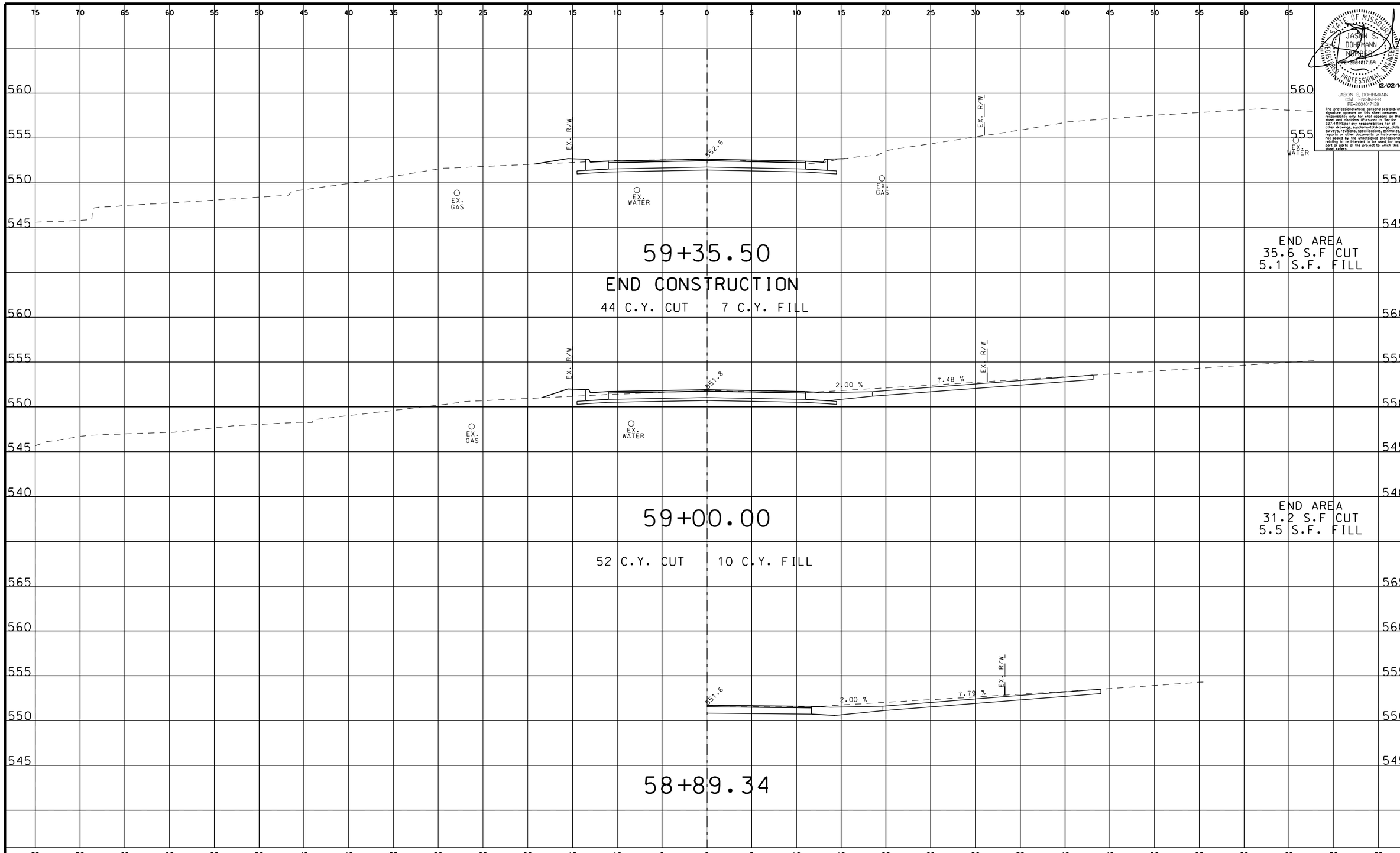
PROPOSED CROSS SECTIONS

SALINE ROAD

SHEET NO.
XS-35
98 of 99



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PROPOSED CROSS SECTIONS

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99 of 99