

DESIGN DESIGNATION

A.A.D.T. - 2015 = 6565

A.A.D.T. - 2035 = 9755

D.H.V. = 10%

T = 9%

V = 50 M.P.H.

D = 50%

FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL

UTILITIES

ELECTRIC - AMEREN MISSOURI
WILLIAM ROSENER
6450 HIGHWAY MM
HOUSE SPRINGS, MO 63051
OFFICE: 636-671-6162

TELEPHONE - AT&T
GLENN HOENMILLER
122 NORTH 2ND STREET
FESTUS, MO 63028
OFFICE: 636-931-7525

CABLE - CHARTER
DARYL STEFFEN
815 CHARTER COMMUNICATIONS DRIVE
TOWN & COUNTRY, MO 63017
OFFICE: 636-387-6663

GAS - LACLEDE
BRIAN LANGENBACHER
4118 SHREWSBURY AVENUE
SHREWSBURY, MO 63119
OFFICE: 314-768-7767

SEWER - ROCK CREEK
JASON SIEGER
4133 WEST OUTER ROAD
ARNOLD, MO 63010
OFFICE: 636-464-3305

PUBLIC WATER SUPPLY DISTRICT #3
pwsd3jb2@yahoo.com
1469 OLD STATE ROUTE 21
ARNOLD, MO 63026
OFFICE: 636-296-7053

CONVENTIONAL SYMBOLS

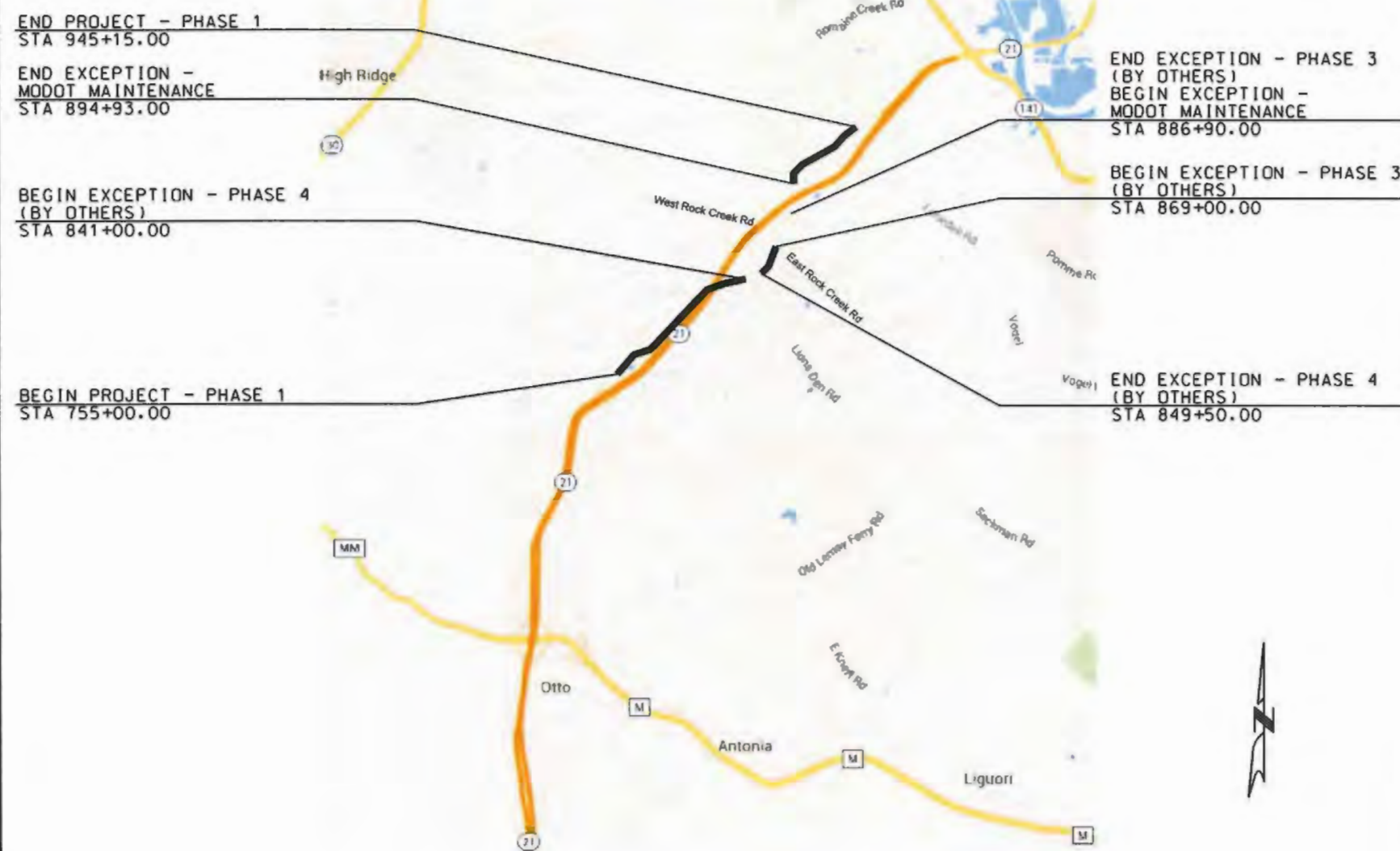
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS		
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE		
OVERHEAD POWER		
UNDERGROUND POWER		
GAS		
WATER		
MANHOLE		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		
LEAVE IN PLACE		
TO BE REMOVED		
TO BE REMOVED & RELOCATED		
USE IN PLACE		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT PLANS FOR PROPOSED COUNTY ROAD

OLD STATE ROUTE 21 PHASE 1 IMPROVEMENTS



END PROJECT - PHASE 1
STA 945+15.00

END EXCEPTION -
MODOT MAINTENANCE
STA 894+93.00

BEGIN EXCEPTION - PHASE 4
(BY OTHERS)
STA 841+00.00

BEGIN PROJECT - PHASE 1
STA 755+00.00

END EXCEPTION - PHASE 3
(BY OTHERS)
BEGIN EXCEPTION -
MODOT MAINTENANCE
STA 886+90.00

BEGIN EXCEPTION - PHASE 3
(BY OTHERS)
STA 869+00.00

END EXCEPTION - PHASE 4
(BY OTHERS)
STA 849+50.00

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (2 SHEETS)	2
QUANTITIES (QU) (11 SHEETS)	3
PLAN-PROFILE (PP)	4-39
TRAFFIC CONTROL SHEETS (TC)	40-43



DATE PREPARED
03-NOV-2016

ROUTE 21 STATE MO

DISTRICT SL SHEET NO. 1

COUNTY JEFFERSON

JOB NO. PW17039RDW

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

LENGTH OF PROJECT

BEGINNING OF PROJECT STA. 755 + 00.00

END OF PROJECT STA. 945 + 15.00

APPARENT LENGTH 19.015.00

EQUATIONS AND EXCEPTIONS:

STA. 773 + 13.17 BK -0.56 FEET
STA. 773 + 13.73 AHD

STA. 785 + 04.55 BK -6.31 FEET
STA. 785 + 10.86 AHD

STA. 788 + 04.00 BK 4.00 FEET
STA. 788 + 00.00 AHD

STA. 827 + 86.17 BK 294.90 FEET
STA. 824 + 91.27 AHD

STA. 841 + 00.00 -850.00 FEET
STA. 849 + 50.00

STA. 854 + 40.30 BK -5.38 FEET
STA. 854 + 45.68 AHD

STA. 860 + 77.00 BK 1.40 FEET
STA. 860 + 75.60 AHD

STA. 869 + 00.00 -1790.00 FEET
STA. 886 + 90.00

STA. 886 + 90.00 -803.00 FEET
STA. 894 + 93.00

STA. 896 + 34.98 BK 33.59 FEET
STA. 896 + 01.39 AHD

STA. 912 + 53.74 BK -12.84 FEET
STA. 912 + 66.58 AHD

STA. 934 + 78.09 BK 15.71 FEET
STA. 934 + 62.38 AHD

STA. 943 + 45.75 BK -12.47 FEET
STA. 943 + 58.22 AHD

TOTAL CORRECTIONS -3130.96 FEET

NET LENGTH OF PROJECT 15.884.04 FEET

LENGTH OF PROJECT 3.008 MILES

APPROVED BY:

JASON JONAS, P.E.
DIRECTOR OF PUBLIC WORKS

3/2/17
DATE

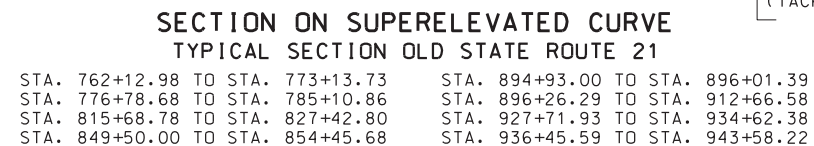
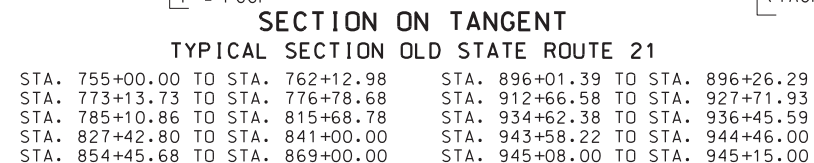


JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.com



JACOBS
JACOBS ENGINEERING GROUP
10000 N. MISSOURI AVE.
ST. LOUIS, MISSOURI 63141-2000
PHONE: (314) 536-4000
FAX: (314) 536-4001
CERTIFICATE OF AUTHORITY
#00704

1. PLANT MIX BITUMINOUS PAVEMENT (BP-1) QUANTITY BASED UPON 1.929 TONS/CU. YD. COMPACTED MIXTURE
2. PLANT MIX BITUMINOUS BASE QUANTITY BASED UPON 1.931 TONS/CU. YD. COMPACTED MIXTURE
3. TACK COAT QUANTITY BASED UPON 0.08 GALLONS/SQ. YD.
4. PRIME COAT QUANTITY BASED UPON 0.45 GALLONS/SQ. YD.



NOTE:
CONCRETE PAVEMENT SHALL BE DOWELED TO ADJOINING EXISTING CONCRETE
PAVEMENT. SEE MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD PLAN
613.OOP FOR ADDITIONAL INFORMATION (DOWEL SIZE, SPACING, DIMENSIONS, ETC.)

- TYPICAL SECTIONS
SHEET 1 OF 2



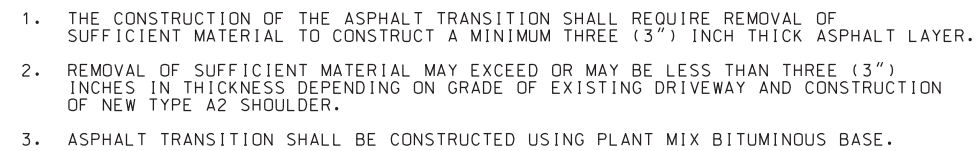
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffcomo.org

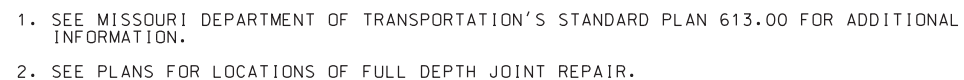


JA

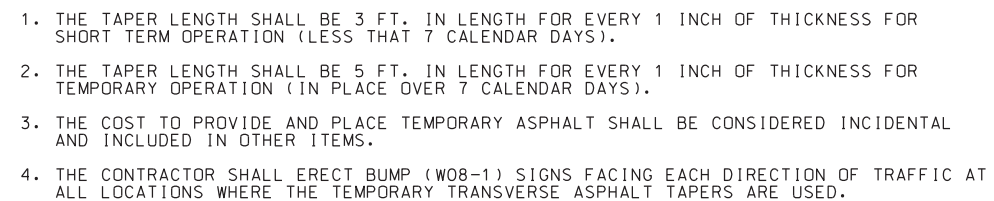
1. ALL WORK SHALL CONFORM TO MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD PLANS AND STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
2. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF EXISTING PAVEMENT STRUCTURE PRIOR TO SAW CUT.



N.T.S.



N.T.S.



N.T.S.



TYPICAL SECTIONS
SHEET 2 OF 2

2B

REMOVAL OF IMPROVEMENTS				
SHEET	STATION	STATION	LOCATION	DESCRIPTION
25	855+32		OLD ROUTE 21, LT	7.3 SY CONC PVM' T
25	856+31		OLD ROUTE 21, LT	7.3 SY CONC PVM' T
25	856+80		OLD ROUTE 21, RT	MAILBOX
29	894+85	896+22	OLD ROUTE 21, RT	137.0 LF GUARDRAIL
30	899+80		OLD ROUTE 21, LT	MAILBOX
34	917+64		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
34	919+14		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
34	920+65		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
35	922+14		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
35	923+14		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
35	923+65		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
35	925+14		OLD ROUTE 21, RT	7.3 SY CONC PVM' T
36	928+15		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
36	929+14		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
36	929+64		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
36	930+14		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
37	931+65		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
37	932+32		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
37	933+45		OLD ROUTE 21, LT	MAILBOX
37	934+10		OLD ROUTE 21, RT	MAILBOX
38	936+41		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
38	937+42		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
38	938+41		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
38	938+92		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
38	939+05		OLD ROUTE 21, LT	MAILBOX
38	939+91		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
39	940+20		OLD ROUTE 21, LT	MAILBOX
39	940+91		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
39	941+33		OLD ROUTE 21, LT	MAILBOX
39	941+91		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
39	942+97		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
39	943+60		OLD ROUTE 21, LT	MAILBOX
39	944+10		OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
39	943+92		OLD ROUTE 21, RT	MAILBOX
39	944+46	945+08	OLD ROUTE 21, LT & RT	151.6 SY CONC PVM' T
39	944+50		OLD ROUTE 21, RT	MAILBOX
			TOTAL	1 LUMP SUM

MOBILIZATION	
TOTAL	1 LUMP SUM

DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	3
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



JACOBS ENGINEERING
501 NORTH
ST. LOUIS, MO
PHONE
CERTIFICATE

SUMMARY OF QUANTITIES

2B

SUMMARY OF QUANTITIES
SHEET 2 OF 11



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	3
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]

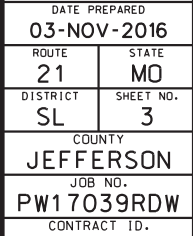
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



JA JACOBS ENGINEERING GROUP
500 N. RIVER ST., SUITE 2000
ST. LOUIS, MISSOURI 63101-2099
PHONE (314) 339-4000
CERTIFICATE OF AUTHORITY
#00704

SUMMARY OF QUANTITIES

2B



PAVEMENT QUANTITIES							
SHEET	STATION	STATION	LOCATION	COLD MILLING	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1)	TACK COAT	TYPE A2 SHOULDER
				SY	TON	GAL	SY
23	837+50	841+00	OLD ROUTE 21, LT & RT	856	160.5	136	700.0
24	849+50	854+00	OLD ROUTE 21, LT & RT	1100	206.3	176	900.0
25	854+00	854+40	OLD ROUTE 21, LT & RT	98	18.3	16	80.0
25	854+46	858+50	OLD ROUTE 21, LT & RT	988	185.2	158	808.0
26	858+50	860+77	OLD ROUTE 21, LT & RT	555	104.1	88	454.0
26	860+76	863+00	OLD ROUTE 21, LT & RT	548	102.7	88	448.0
27	863+00	867+50	OLD ROUTE 21, LT & RT	1100	206.3	176	900.0
28	867+50	869+00	OLD ROUTE 21, LT & RT	367	68.8	58	300.0
29	894+93	896+35	OLD ROUTE 21	347	65.1	56	
29	896+01	899+50	OLD ROUTE 21	853	160.0	136	
29	894+93	896+35	OLD ROUTE 21, LT				142.0
29	896+01	899+50	OLD ROUTE 21, LT				349.0
29	894+93	896+09	OLD ROUTE 21, RT				183.3
29	896+09	899+50	OLD ROUTE 21, RT				341.0
30	899+50	904+00	OLD ROUTE 21, LT & RT	1100	206.3	176	900.0
31	904+00	908+50	OLD ROUTE 21, LT & RT	1100	206.3	176	900.0
32	908+50	912+54	OLD ROUTE 21, LT & RT	988	185.2	158	808.0
32	912+67	913+00	OLD ROUTE 21, LT & RT	81	15.1	12	66.0
33	913+00	917+50	OLD ROUTE 21, LT & RT	1100	206.3	176	900.0
34	917+50	922+00	OLD ROUTE 21, LT & RT	1100	206.3	176	900.0
35	922+00	926+50	OLD ROUTE 21, LT & RT	1100	206.3	176	900.0
36	926+50	931+00	OLD ROUTE 21, LT & RT	1100	206.3	176	900.0
37	931+00	934+78	OLD ROUTE 21, LT & RT	924	173.3	148	756.0
37	934+62	935+50	OLD ROUTE 21, LT & RT	215	40.3	34	176.0
38	935+50	940+00	OLD ROUTE 21, LT & RT	1100	206.3	176	900.0
39	940+00	943+46	OLD ROUTE 21, LT & RT	846	158.6	136	692.0
39	943+58	944+46	OLD ROUTE 21, LT & RT	215	40.3	34	176.0
39	944+46	945+08	OLD ROUTE 21, LT & RT				124.0
39	945+08	945+15	OLD ROUTE 21, LT & RT	17	3.2	2	14.0
			SHEET SUBTOTAL	17,798	3337.4	2844	14,717.3
			TOTAL	38,384	7198.2	6138	30,517.3

[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 325-4000
OFFICE OF AUTHORITY
#000704

2B

L I N E A R G R A D I N G					
SHEET	STATION	STATION	LOCATION	CLASS 2	COMMENT
				STA	
4	755+00	759+50	OLD ROUTE 21, LT	4.5	SHOULDER
4	755+00	759+50	OLD ROUTE 21, RT	4.5	SHOULDER
5	759+50	764+00	OLD ROUTE 21, LT	4.5	SHOULDER
5	759+50	764+00	OLD ROUTE 21, RT	4.5	SHOULDER
6	764+00	768+50	OLD ROUTE 21, LT	4.5	SHOULDER
6	764+00	768+50	OLD ROUTE 21, RT	4.5	SHOULDER
7	768+50	773+00	OLD ROUTE 21, LT	4.5	SHOULDER
7	768+50	773+00	OLD ROUTE 21, RT	4.5	SHOULDER
8	773+00	773+13	OLD ROUTE 21, LT	0.1	SHOULDER
8	773+14	775+28	OLD ROUTE 21, LT	2.1	SHOULDER
8	776+52	777+50	OLD ROUTE 21, LT	1.0	SHOULDER
8	773+00	773+13	OLD ROUTE 21, RT	0.1	SHOULDER
8	773+14	777+50	OLD ROUTE 21, RT	4.4	SHOULDER
9	777+50	782+00	OLD ROUTE 21, LT	4.5	SHOULDER
9	777+50	782+00	OLD ROUTE 21, RT	4.5	SHOULDER
10	782+00	785+05	OLD ROUTE 21, LT	3.1	SHOULDER
10	785+11	786+50	OLD ROUTE 21, LT	1.4	SHOULDER
10	782+00	785+05	OLD ROUTE 21, RT	3.1	SHOULDER
10	785+11	786+50	OLD ROUTE 21, RT	1.4	SHOULDER
11	786+50	788+04	OLD ROUTE 21, LT	1.5	SHOULDER
11	788+00	791+00	OLD ROUTE 21, LT	3.0	SHOULDER
11	786+50	788+04	OLD ROUTE 21, RT	1.5	SHOULDER
11	788+00	791+00	OLD ROUTE 21, RT	3.0	SHOULDER
12	791+00	795+50	OLD ROUTE 21, LT	4.5	SHOULDER
12	791+00	795+50	OLD ROUTE 21, RT	4.5	SHOULDER
13	795+50	800+00	OLD ROUTE 21, LT	4.5	SHOULDER
13	795+50	800+00	OLD ROUTE 21, RT	4.5	SHOULDER
14	800+00	804+50	OLD ROUTE 21, LT	4.5	SHOULDER
14	800+00	804+50	OLD ROUTE 21, RT	4.5	SHOULDER
15	804+50	809+00	OLD ROUTE 21, LT	4.5	SHOULDER
15	804+50	809+00	OLD ROUTE 21, RT	4.5	SHOULDER
16	809+00	811+38	OLD ROUTE 21, LT	2.4	SHOULDER
16	809+00	811+38	OLD ROUTE 21, RT	2.4	SHOULDER
17	816+11	818+00	OLD ROUTE 21, LT	1.9	SHOULDER
17	815+74	818+00	OLD ROUTE 21, RT	2.3	SHOULDER
18	818+00	822+50	OLD ROUTE 21, LT	4.5	SHOULDER
18	818+00	822+50	OLD ROUTE 21, RT	4.5	SHOULDER
19	822+50	822+75	OLD ROUTE 21, LT	0.3	SHOULDER
19	823+37	827+00	OLD ROUTE 21, LT	3.6	SHOULDER
19	822+50	826+16	OLD ROUTE 21, RT	3.7	SHOULDER
19	826+95	827+00	OLD ROUTE 21, RT	0.1	SHOULDER
20	827+00	827+86	OLD ROUTE 21, LT	0.9	SHOULDER
20	824+91	828+50	OLD ROUTE 21, LT	3.6	SHOULDER
20	827+00	827+86	OLD ROUTE 21, RT	0.9	SHOULDER
20	824+91	828+50	OLD ROUTE 21, RT	3.6	SHOULDER
21	828+50	833+00	OLD ROUTE 21, LT	4.5	SHOULDER
21	828+50	833+00	OLD ROUTE 21, RT	4.5	SHOULDER
22	833+00	837+50	OLD ROUTE 21, LT	4.5	SHOULDER
22	833+00	835+98	OLD ROUTE 21, RT	3.0	SHOULDER
22	837+08	837+50	OLD ROUTE 21, RT	0.4	SHOULDER
			SUBTOTAL	158.3	

LINEAR GRADING					
SHEET	STATION	STATION	LOCATION	CLASS 2	COMMENT
				STA	
23	837+50	841+00	OLD ROUTE 21, LT	3.5	SHOULDER
23	837+50	841+00	OLD ROUTE 21, RT	3.5	SHOULDER
24	849+50	854+00	OLD ROUTE 21, LT	4.5	SHOULDER
24	849+50	854+00	OLD ROUTE 21, RT	4.5	SHOULDER
25	854+00	854+40	OLD ROUTE 21, LT	0.4	SHOULDER
25	854+46	858+50	OLD ROUTE 21, LT	4.0	SHOULDER
25	854+00	854+40	OLD ROUTE 21, RT	0.4	SHOULDER
25	854+46	858+50	OLD ROUTE 21, RT	4.0	SHOULDER
26	858+50	860+77	OLD ROUTE 21, LT	2.3	SHOULDER
26	860+76	863+00	OLD ROUTE 21, LT	2.2	SHOULDER
26	858+50	860+77	OLD ROUTE 21, RT	2.3	SHOULDER
26	860+76	863+00	OLD ROUTE 21, RT	2.2	SHOULDER
27	863+00	867+50	OLD ROUTE 21, LT	4.5	SHOULDER
27	863+00	867+50	OLD ROUTE 21, RT	4.5	SHOULDER
28	867+50	869+00	OLD ROUTE 21, LT	1.5	SHOULDER
28	867+50	869+00	OLD ROUTE 21, RT	1.5	SHOULDER
29	894+93	896+35	OLD ROUTE 21, LT	1.4	SHOULDER
29	896+01	899+50	OLD ROUTE 21, LT	3.5	SHOULDER
29	894+93	896+35	OLD ROUTE 21, RT	1.4	SHOULDER
29	896+01	899+50	OLD ROUTE 21, RT	3.5	SHOULDER
30	899+50	904+00	OLD ROUTE 21, LT	4.5	SHOULDER
30	899+50	904+00	OLD ROUTE 21, RT	4.5	SHOULDER
31	904+00	908+50	OLD ROUTE 21, LT	4.5	SHOULDER
31	904+00	908+50	OLD ROUTE 21, RT	4.5	SHOULDER
32	908+50	912+54	OLD ROUTE 21, LT	4.0	SHOULDER
32	912+67	913+00	OLD ROUTE 21, LT	0.3	SHOULDER
32	908+50	912+54	OLD ROUTE 21, RT	4.0	SHOULDER
32	912+67	913+00	OLD ROUTE 21, RT	0.3	SHOULDER
33	913+00	917+50	OLD ROUTE 21, LT	4.5	SHOULDER
33	913+00	917+50	OLD ROUTE 21, RT	4.5	SHOULDER
34	917+50	922+00	OLD ROUTE 21, LT	4.5	SHOULDER
34	917+50	922+00	OLD ROUTE 21, RT	4.5	SHOULDER
35	922+00	926+50	OLD ROUTE 21, LT	4.5	SHOULDER
35	922+00	926+50	OLD ROUTE 21, RT	4.5	SHOULDER
36	926+50	931+00	OLD ROUTE 21, LT	4.5	SHOULDER
36	926+50	931+00	OLD ROUTE 21, RT	4.5	SHOULDER
37	931+00	934+78	OLD ROUTE 21, LT	3.8	SHOULDER
37	934+62	935+50	OLD ROUTE 21, LT	0.9	SHOULDER
37	931+00	934+78	OLD ROUTE 21, RT	3.8	SHOULDER
37	934+62	935+50	OLD ROUTE 21, RT	0.9	SHOULDER
38	935+50	940+00	OLD ROUTE 21, LT	4.5	SHOULDER
38	935+50	940+00	OLD ROUTE 21, RT	4.5	SHOULDER
39	940+00	943+46	OLD ROUTE 21, LT	3.5	SHOULDER
39	943+58	945+15	OLD ROUTE 21, LT	1.6	SHOULDER
39	940+00	943+46	OLD ROUTE 21, RT	3.5	SHOULDER
39	943+58	945+15	OLD ROUTE 21, RT	1.6	SHOULDER
			SUBTOTAL	146.8	
			TOTAL	305.1	



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	3
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



JACOBS ENGINEERING
501 NORTH
ST. LOUIS, MO
PHONE
CERTIFICATION

2B

PAVEMENT EDGE TREATMENT				
SHEET	STATION	STATION	LOCATION	LF
23	837+50	841+00	OLD ROUTE 21, LT	350
23	837+50	841+00	OLD ROUTE 21, RT	350
24	849+50	854+00	OLD ROUTE 21, LT	450
24	849+50	854+00	OLD ROUTE 21, RT	450
25	854+00	854+40	OLD ROUTE 21, LT	40
25	854+46	858+50	OLD ROUTE 21, LT	404
25	854+00	854+40	OLD ROUTE 21, RT	40
25	854+46	858+50	OLD ROUTE 21, RT	404
26	858+50	860+77	OLD ROUTE 21, LT	227
26	860+76	863+00	OLD ROUTE 21, LT	224
26	858+50	860+77	OLD ROUTE 21, RT	227
26	860+76	863+00	OLD ROUTE 21, RT	224
27	863+00	867+50	OLD ROUTE 21, LT	450
27	863+00	867+50	OLD ROUTE 21, RT	450
28	867+50	869+00	OLD ROUTE 21, LT	150
28	867+50	869+00	OLD ROUTE 21, RT	150
29	894+93	896+35	OLD ROUTE 21, LT	142
29	896+01	899+50	OLD ROUTE 21, LT	349
29	894+93	896+35	OLD ROUTE 21, RT	142
29	896+01	899+50	OLD ROUTE 21, RT	349
30	899+50	904+00	OLD ROUTE 21, LT	450
30	899+50	904+00	OLD ROUTE 21, RT	450
31	904+00	908+50	OLD ROUTE 21, LT	450
31	904+00	908+50	OLD ROUTE 21, RT	450
32	908+50	912+54	OLD ROUTE 21, LT	404
32	912+67	913+00	OLD ROUTE 21, LT	33
32	908+50	912+54	OLD ROUTE 21, RT	404
32	912+67	913+00	OLD ROUTE 21, RT	33
33	913+00	917+50	OLD ROUTE 21, LT	450
33	913+00	917+50	OLD ROUTE 21, RT	450
34	917+50	922+00	OLD ROUTE 21, LT	450
34	917+50	922+00	OLD ROUTE 21, RT	450
35	922+00	926+50	OLD ROUTE 21, LT	450
35	922+00	926+50	OLD ROUTE 21, RT	450
36	926+50	931+00	OLD ROUTE 21, LT	450
36	926+50	931+00	OLD ROUTE 21, RT	450
37	931+00	934+78	OLD ROUTE 21, LT	378
37	934+62	935+50	OLD ROUTE 21, LT	88
37	931+00	934+78	OLD ROUTE 21, RT	378
37	934+62	935+50	OLD ROUTE 21, RT	88
38	935+50	940+00	OLD ROUTE 21, LT	450
38	935+50	940+00	OLD ROUTE 21, RT	450
39	940+00	943+46	OLD ROUTE 21, LT	346
39	943+58	945+15	OLD ROUTE 21, LT	157
39	940+00	943+46	OLD ROUTE 21, RT	346
39	943+58	945+15	OLD ROUTE 21, RT	157
			SUBTOTAL	14,684
			TOTAL	30,484

DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	3
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.

BRIDGE NO.

[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffcomo.org



JA
JACOBS ENGINEERING
501 NORTH
ST. LOUIS, MO
PHONE

2B

SHEET	STATION	STATION	LOCATION	CENTERLINE	SHOULDER
				STA	STA
16	809+00	812+46	OLD ROUTE 21	3.5	
16	809+50	811+38	OLD ROUTE 21, LT		1.9
16	809+00	811+38	OLD ROUTE 21, RT		2.4
17	814+70	818+00	OLD ROUTE 21	3.3	
17	817+41	818+00	OLD ROUTE 21, LT		0.6
17	815+74	818+00	OLD ROUTE 21, RT		2.3
18	818+00	822+50	OLD ROUTE 21	4.5	
18	818+00	822+25	OLD ROUTE 21, LT		4.3
18	818+00	822+50	OLD ROUTE 21, RT		4.5
19	822+50	827+00	OLD ROUTE 21	4.5	
19	824+67	827+00	OLD ROUTE 21, LT		2.3
19	822+50	824+86	OLD ROUTE 21, RT		2.4
20	827+00	827+86	OLD ROUTE 21	0.9	
20	824+91	828+50	OLD ROUTE 21	3.6	
20	827+00	827+86	OLD ROUTE 21, LT		0.9
20	824+91	826+30	OLD ROUTE 21, LT		1.4
21	828+50	833+00	OLD ROUTE 21	4.5	
21	829+50	830+50	OLD ROUTE 21, LT		1.0
21	832+60	833+00	OLD ROUTE 21, LT		0.4
22	833+00	837+50	OLD ROUTE 21	4.5	
22	833+00	837+10	OLD ROUTE 21, LT		4.1
22	833+00	834+68	OLD ROUTE 21, RT		1.7
23	837+50	841+00	OLD ROUTE 21	3.5	
23	839+25	839+50	OLD ROUTE 21, LT		0.3
23	837+58	841+00	OLD ROUTE 21, RT		3.4
24	849+50	854+00	OLD ROUTE 21	4.5	
24	851+80	854+00	OLD ROUTE 21, LT		2.2
24	849+50	854+00	OLD ROUTE 21, RT		4.5
25	854+00	854+40	OLD ROUTE 21	0.4	
25	854+46	858+50	OLD ROUTE 21	4.0	
25	854+00	854+40	OLD ROUTE 21, LT		0.4
25	854+46	858+50	OLD ROUTE 21, LT		4.0
25	854+00	854+40	OLD ROUTE 21, RT		0.4
25	854+46	855+25	OLD ROUTE 21, RT		0.8
25	857+35	858+50	OLD ROUTE 21, RT		1.2
26	858+50	860+77	OLD ROUTE 21	2.3	
26	860+76	863+00	OLD ROUTE 21	2.2	
26	858+50	860+77	OLD ROUTE 21, LT		2.3
26	860+76	863+00	OLD ROUTE 21, LT		2.2
26	858+50	860+77	OLD ROUTE 21, RT		2.3
26	860+76	863+00	OLD ROUTE 21, RT		2.2
27	863+00	867+50	OLD ROUTE 21	4.5	
27	863+00	867+50	OLD ROUTE 21, LT		4.5
27	863+00	867+50	OLD ROUTE 21, RT		4.5
28	867+50	869+00	OLD ROUTE 21	1.5	
28	867+50	869+00	OLD ROUTE 21, LT		1.5
28	867+50	869+00	OLD ROUTE 21, RT		1.5
			SUBTOTAL	52.2	68.4

DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
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COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



JA CONCRETE CONCRETING, CIRCULAR
501 N. BRIDGEMAN
ST. LOUIS, MO 63105-2929
PHONE (314) 232-4000
TELETYPE AUTHORITY
#00794

2B

SUMMARY OF QUANTITIES
SHEET 7 OF 11



2B

DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
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[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MD 63050
(636-797-5340)
www.jeffco.com.org



JACOBUS ENGINEERING GROUP
501 NORTH BRIDGEMAN
ST. LOUIS, MISSOURI 63105-4101
PHONE (314) 335-4000
FAX (314) 335-4000
CERTIFICATE OF AUTHORITY
#000706

2B

ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 3

PROJECT NO.

BRIDGE NO.

PAYEMENT MARKING						
SHEET	STATION	STATION	LOCATION	WATERBORNE PAINT, TYPE P BEADS		
				4" SOLID WHITE	4" SOLID YELLOW	4" INT. YELLOW
				LF	LF	LF
21	828+50	833+00	OLD ROUTE 21	900	900	
22	833+00	837+50	OLD ROUTE 21	900	900	
23	837+50	841+00	OLD ROUTE 21	700	700	
24	849+50	850+96	OLD ROUTE 21	292	292	
24	850+96	854+00	OLD ROUTE 21	608	304	76
25	854+00	854+40	OLD ROUTE 21	80	40	10
25	854+46	858+50	OLD ROUTE 21	808	404	101
26	858+50	860+77	OLD ROUTE 21	454	227	57
26	860+76	862+38	OLD ROUTE 21	324	162	41
26	862+38	863+00	OLD ROUTE 21	124	124	
27	863+00	863+53	OLD ROUTE 21	106	106	
27	863+53	867+50	OLD ROUTE 21	794	397	99
28	867+50	869+00	OLD ROUTE 21	300	150	38
29	894+93	896+35	OLD ROUTE 21	284	284	
29	896+01	899+50	OLD ROUTE 21	698	698	
30	899+50	904+00	OLD ROUTE 21	900	900	
31	904+00	908+50	OLD ROUTE 21	900	900	
32	908+50	912+54	OLD ROUTE 21	808	808	
32	912+67	913+00	OLD ROUTE 21	66	66	
33	913+00	917+50	OLD ROUTE 21	900	900	
34	917+50	922+00	OLD ROUTE 21	900	900	
35	922+00	926+50	OLD ROUTE 21	900	900	
36	926+50	931+00	OLD ROUTE 21	900	900	
37	931+00	934+78	OLD ROUTE 21	756	756	
37	934+62	935+50	OLD ROUTE 21	176	176	
38	935+50	940+00	OLD ROUTE 21	900	900	
39	940+00	943+46	OLD ROUTE 21	692	692	
39	943+58	945+15	OLD ROUTE 21	314	314	
			SUBTOTAL	16,484	14,800	421
			TOTAL	31,479	25,796	1110

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



JA JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2191
PHONE (314) 332-4000
CERTIFICATE OF AUTHORITY
#100764

2B

TEMPORARY PAVEMENT MARKING						
SHEET	STATION	STATION	LOCATION	TEMPORARY RAISED PAVEMENT MARKER		WATERBORNE PAINT, TYPE P BEADS
				TYPE 2 (WHITE)	TYPE 2 (YELLOW)	4" SOLID YELLOW
				EA	EA	LF
21	828+50	833+00	OLD ROUTE 21	12	11	44
22	833+00	837+50	OLD ROUTE 21	12	11	44
23	837+50	841+00	OLD ROUTE 21	12	9	36
24	849+50	850+96	OLD ROUTE 21	6	4	16
24	850+96	854+00	OLD ROUTE 21	12	8	32
25	854+00	854+40	OLD ROUTE 21	0	1	4
25	854+46	858+50	OLD ROUTE 21	12	10	40
26	858+50	860+77	OLD ROUTE 21	6	6	24
26	860+76	862+38	OLD ROUTE 21	6	4	16
26	862+38	863+00	OLD ROUTE 21	0	2	8
27	863+00	863+53	OLD ROUTE 21	0	1	4
27	863+53	867+50	OLD ROUTE 21	12	10	40
28	867+50	869+00	OLD ROUTE 21	6	4	16
29	894+93	896+35	OLD ROUTE 21	6	4	16
29	896+01	899+50	OLD ROUTE 21	12	9	36
30	899+50	904+00	OLD ROUTE 21	12	11	44
31	904+00	908+50	OLD ROUTE 21	12	11	44
32	908+50	912+54	OLD ROUTE 21	12	10	40
32	912+67	913+00	OLD ROUTE 21	0	1	4
33	913+00	917+50	OLD ROUTE 21	12	11	44
34	917+50	922+00	OLD ROUTE 21	12	11	44
35	922+00	926+50	OLD ROUTE 21	12	11	44
36	926+50	931+00	OLD ROUTE 21	12	11	44
37	931+00	934+78	OLD ROUTE 21	12	9	36
37	934+62	935+50	OLD ROUTE 21	0	2	8
38	935+50	940+00	OLD ROUTE 21	12	11	44
39	940+00	943+46	OLD ROUTE 21	12	9	36
39	943+58	945+15	OLD ROUTE 21	6	4	16
			SUBTOTAL	240	206	824
			TOTAL	456	395	1580

DATE PREPARED	
03-NOV-2016	
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21	MO
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[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



JACOBS ENGINEERING
501 NORTH
ST. LOUIS, MO
PHONE
CERTIFICATE

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WARNING SIGNS							
WO1-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)
WO1-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)
WO1-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)
WO1-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)
WO1-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)
WO1-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)
WO1-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)
WO1-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)
WO1-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
WO1-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
WO1-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
WO1-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
WO1-6	60X30	12.50					HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00					HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-8	18X24	3.00					CHEVRON (SYMBOL)
WO1-8a	30X36	7.50					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00					STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00					YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00					BE PREPARED TO STOP
WO3-5	48X48	16.00					SPEED LIMIT AHEAD
WO4-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)
WO5-1	48X48	16.00					ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00					ONE LANE BRIDGE
WO5-5	48X48	16.00	1	16.00			NARROW LANES
WO6-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00					NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00	12	192.00			BUMP
WO8-2	48X48	16.00					DIP
WO8-3	48X48	16.00					PAVEMENT ENDS
WO8-4	48X48	16.00					SOFT SHOULDER
WO8-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00					TRUCK CROSSING WITH FLAGS
WO8-6c	48X48	16.00					TRUCK ENTRANCE
WO8-7	36X36	9.00					LOOSE GRAVEL
WO8-9	48X48	16.00					LOW SHOULDER
WO8-11	48X48	16.00	4	64.00			UNEVEN LANES
WO8-12	48X48	16.00	4	64.00			NO CENTER LINE
W10-1	42 RND.	9.62					RAILROAD CROSSING
WO12-1	24X24	4.00					DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00					LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00					LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO8-15	48X48	16.00					GROOVED PAVEMENT
WO8-15p	30X24	5.00					MOTORCYCLE (PLAQUE)
WO8-17	48X48	16.00	4	64.00			SHOULDER DROP-OFF (SYMBOL)
WO8-17p	30X24	5.00	4	20.00			SHOULDER DROP-OFF (PLAQUE)
SPECIAL	120X60	50.00					LOW CLEARANCE XX FT XX IN XX MILES AHEAD
SPECIAL	120X60	50.00					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25					ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00					XXX FEET (PLAQUE)
WO16-3	30X24	5.00					X MILE (PLAQUE)
WO20-1	48X48	16.00	4	64.00			ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00	2	32.00			DETOUR AHEAD
WO20-3	48X48	16.00					ROAD CLOSED AHEAD
WO20-4	48X48	16.00	4	64.00			ONE LANE ROAD AHEAD
WO20-5	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED AHEAD

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WO20-5a	48X48	16.00					2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	4	64.00			FLAGGER (SYMBOL) WITH FLAGS
WO21-2	36X36	9.00					FRESH OIL
WO21-5b	48X48	16.00	2	32.00			SHOULDER WORK AHEAD
WO22-1	48X48	16.00					BLASTING ZONE AHEAD
WO22-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50					END BLASTING ZONE
WO22-6e	21X15	2.19					WET PAINT (ARROW PIVOTS)
GUIDE SIGNS							
SPECIAL	36X36	9.00					FRESH OIL/LOOSE GRAVEL
EO5-1	36X48	12.00					GORE EXIT
EO5-2	48X36	12.00					EXIT OPEN
EO5-2a	48X36	12.00					EXIT CLOSED
GO20-1	60X24	10.00					ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00					END ROAD WORK
GO20-4	36X18	4.50					PILOT CAR FOLLOW ME
SPECIAL	42X30	8.75					PLEASE WAIT FOR PILOT CAR
GO20-5aP	36X24	6.00					WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00	2	6.00			END DETOUR
MO4-9L	48X36	12.00	7	84.00			DETOUR (LEFT ARROW)
MO4-9R	48X36	12.00	6	72.00			DETOUR (RIGHT ARROW)
MO4-10L	48X18	6.00					DETOUR (ARROW LEFT)
MO4-10R	48X18	6.00					DETOUR (ARROW RIGHT)
MO4-9S	48X36	12.00	4	48.00			DETOUR (STRAIGHT ARROW)
	48X30	10.00	9	90.00			OLD ROUTE 21
	48X30	10.00	3	30.00			(SB) OLD ROUTE 21
	48X30	10.00	5	50.00			(NB) OLD ROUTE 21
REGULATORY SIGNS							
R1-1	48X48	13.25	1	13.25			STOP
R1-2	48 TRI.	6.93					YIELD
R1-2a	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
R1-3	20X9	1.25					X-WAY (PLAQUE)
R2-1	36X48	12.00					SPEED LIMIT XX
R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00					NO TURNS
R3-4	48X48	16.00					NO U-TURN (SYMBOL)
R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00					DO NOT PASS
R4-2	36X48	12.00					PASS WITH CARE
R4-7aL	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25					DO NOT ENTER
R5-1a	36X24	6.00					WRONG WAY
R6-1L	48X18	6.00					ONE WAY ARROW (LEFT)
R6-1R	48X18	6.00					ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00					ONE WAY (LEFT)
R6-2R	24X30	5.00					ONE WAY (RIGHT)
R10-6	24X36	6.00					STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00	2	20.00			ROAD CLOSED
R11-3a	60X30	12.50	1	12.50			ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC
S4-4	36X15	3.75					WHEN FLASHING
CONST-3A	60X48	20.00					FINE SIGN
CONST-3X	56X12	4.67					SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS							
SPECIAL	36X48	12.00					POINT OF PRESENCE
SPECIAL	96X48	32.00					POINT OF PRESENCE
CONST-7-48	48X24	8.00					RATE OUR WORK ZONE
CONST-7-72	72X36	18.00					RATE OUR WORK ZONE

616-10.05							
CONSTRUCTION SIGNS TOTAL	1101.75						
616-10.10							
RELOCATED SIGNS TOTAL							

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR (8 SAND BARRELS)
6122009		IMPACT ATTENUATOR (9 SAND BARRELS)
6122010		IMPACT ATTENUATOR (10 SAND BARRELS)
6122012		IMPACT ATTENUATOR (12 SAND BARRELS)
6122014		IMPACT ATTENUATOR (14 SAND BARRELS)
6122017		IMPACT ATTENUATOR (17 SAND BARRELS)
6122019		IMPACT ATTENUATOR (19 SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR ARRAY (RELOCATION)
6123000A	1	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161007		SPEED LIMIT AND STROBE LIGHT ASSEMBLY
6161008		ADVANCED WARNING RAIL SYSTEM
6161009		FLAG ASSEMBLY
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONES)
6161024		CHANNELIZER (TRIM LINE) WITH LIGHT
6161025	260	CHANNELIZER (TRIM LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161027		CHANNELIZER (VERTICAL PANEL) WITH LIGHT
6161028		CHANNELIZER
6161030		TYPE III MOVEABLE BARRICADE
6161031	9	TYPE III MOVEABLE BARRICADE WITH LIGHT
6161033		DIRECTION INDICATOR BARRICADE
6161034		DIRECTION INDICATOR BARRICADE, WITH LIGHT
6161040		FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052		WARNING LIGHT, TYPE B
6161053		WARNING LIGHT, TYPE C
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	2	CHANGEABLE MESSAGE SIGN, W/O COMMUNICATION INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161100		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/COMMISSION RETAINED
6173600D		CONTRACTOR FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY TRAFFIC BARRIER
6174000A		TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6177000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
9019400		TEMPORARY LIGHTING
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

STATE OF MISSOURI

RICHARD S. BAUM

REGISTERED PROFESSIONAL ENGINEER

NUMBER E-24320

DATE PREPARED
03-NOV-2016

ROUTE
21

DISTRICT
SL

STATE
MO

SHEET NO.
3

COUNTY
JEFFERSON

JOB NO.
PW17039RDW

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100

HILLSBORO, MO 63050

(636-797-5540)

www.jeffcomo.org

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

STATE OF MISSOURI

JEFFERSON COUNTY

SEAL

JA

JACOBSON

501 N. G.

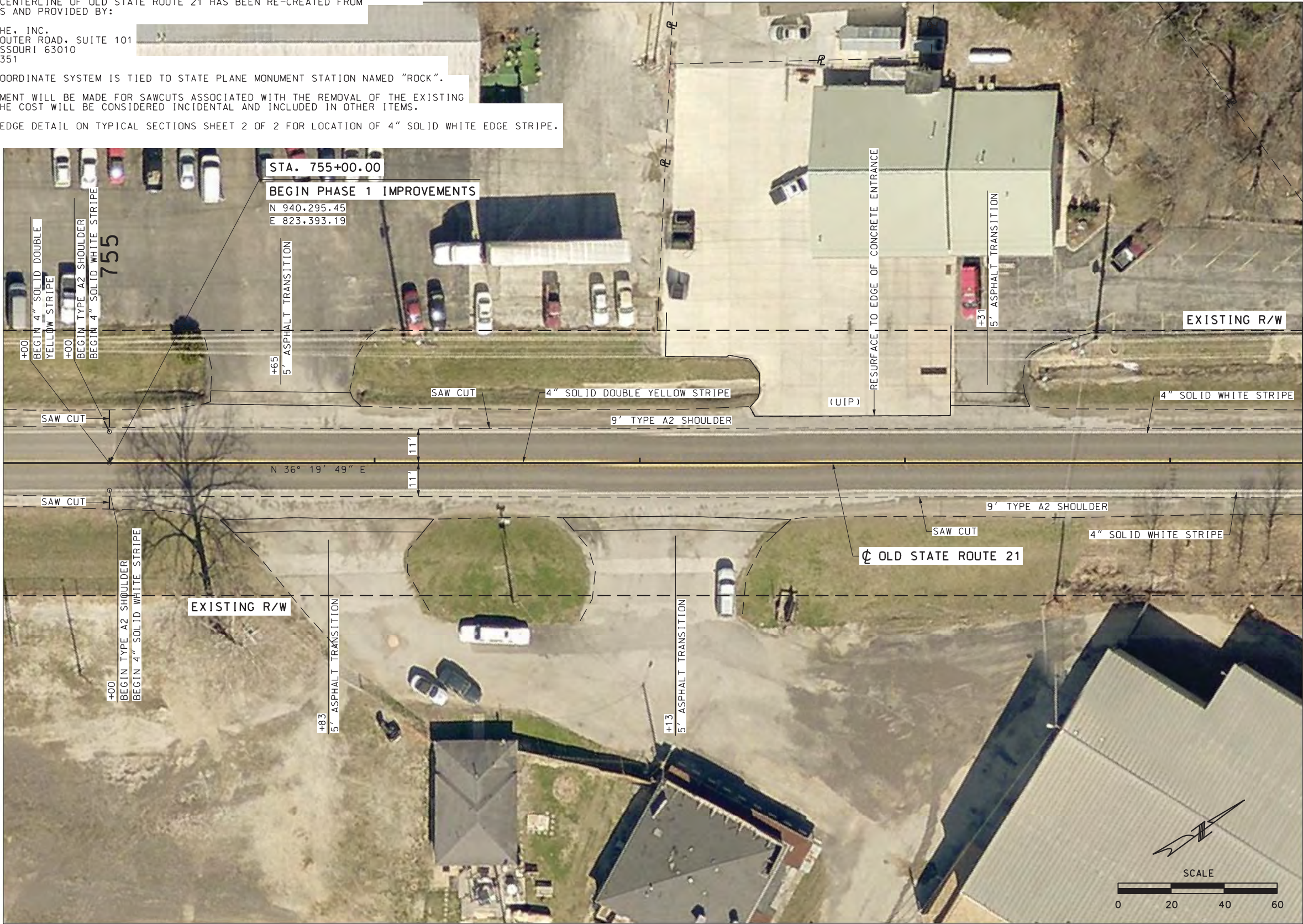
ST. LOUIS, MO

CERTIFIED

GENERAL NOTES:

1. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND NOT A PART OF THE CONSTRUCTION OF THIS PROJECT.
2. THE EXISTING CENTERLINE OF OLD STATE ROUTE 21 HAS BEEN RE-CREATED FROM AS-BUILT PLANS AND PROVIDED BY:

HURST-ROSCHÉ, INC.
3675 WEST OUTER ROAD, SUITE 101
ARNOLD, MISSOURI 63010
636-333-3351
3. THE PROJECT COORDINATE SYSTEM IS TIED TO STATE PLANE MONUMENT STATION NAMED "ROCK".
4. NO DIRECT PAYMENT WILL BE MADE FOR SAWCUTS ASSOCIATED WITH THE REMOVAL OF THE EXISTING SHOULDERS. THE COST WILL BE CONSIDERED INCIDENTAL AND INCLUDED IN OTHER ITEMS.
5. SEE PAVEMENT EDGE DETAIL ON TYPICAL SECTIONS SHEET 2 OF 2 FOR LOCATION OF 4" SOLID WHITE EDGE STRIPE.



MATCH LINE STA. 759+50



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	4
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

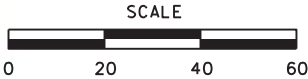
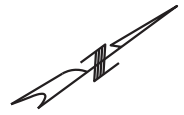
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffcomo.org



MATCH LINE STA. 759+50



MATCH LINE STA. 764+00



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	5
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.mo.org



J.A. JACOBS & ASSOCIATES, INC.
501 N. G. ST.
ST. LOUIS, MO 63101
CERTIFIED



OLD STATE ROUTE 21

- P.I. = 767+78.85
- N = 941.325.72
- E = 824.150.83
- Δ = 36°00'00"
- Dc = 3°59'57"
- Ts = 565.87'
- Lc = 700.19'
- Rc = 1432.69'
- SF = match exist.
- OS = 3°59'57"
- Xc = 199.90'
- Yc = 4.65'



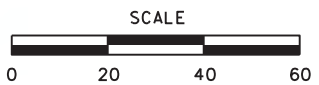
DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	6
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org





DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	7
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

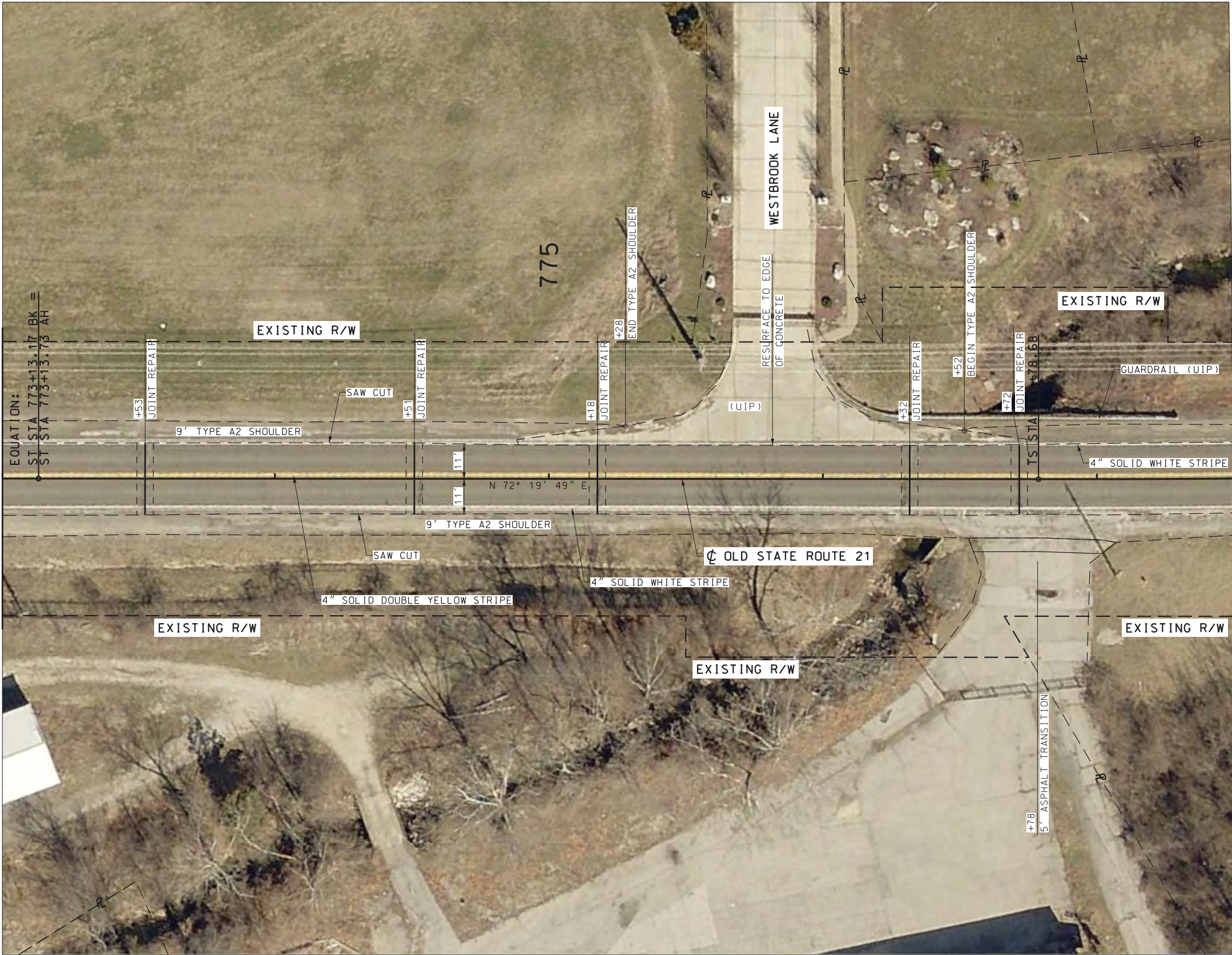
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

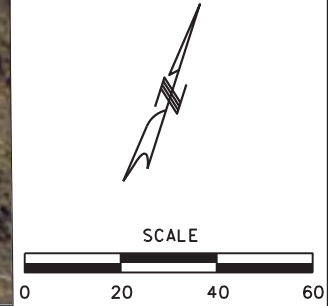
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.mo.org



MATCH LINE STA. 773+00



MATCH LINE STA. 777+50



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	8
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org





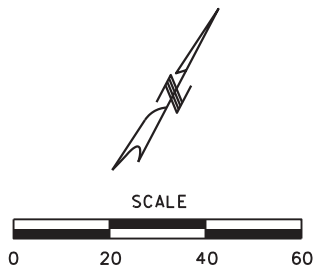
DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	9
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

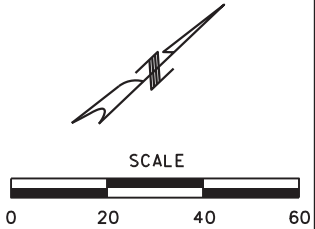
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org



OLD STATE ROUTE 21

P.I. = 781+00.01
N = 941,736.13
E = 825,439.19
Δ = 31°17'00"
Dc = 4°59'54"
Ts = 421.33'
Lc = 425.87'
Rc = 1146.28'
SE = match exist.
OS = 4°59'54"
Xc = 199.85'
Yc = 5.81'



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	10
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

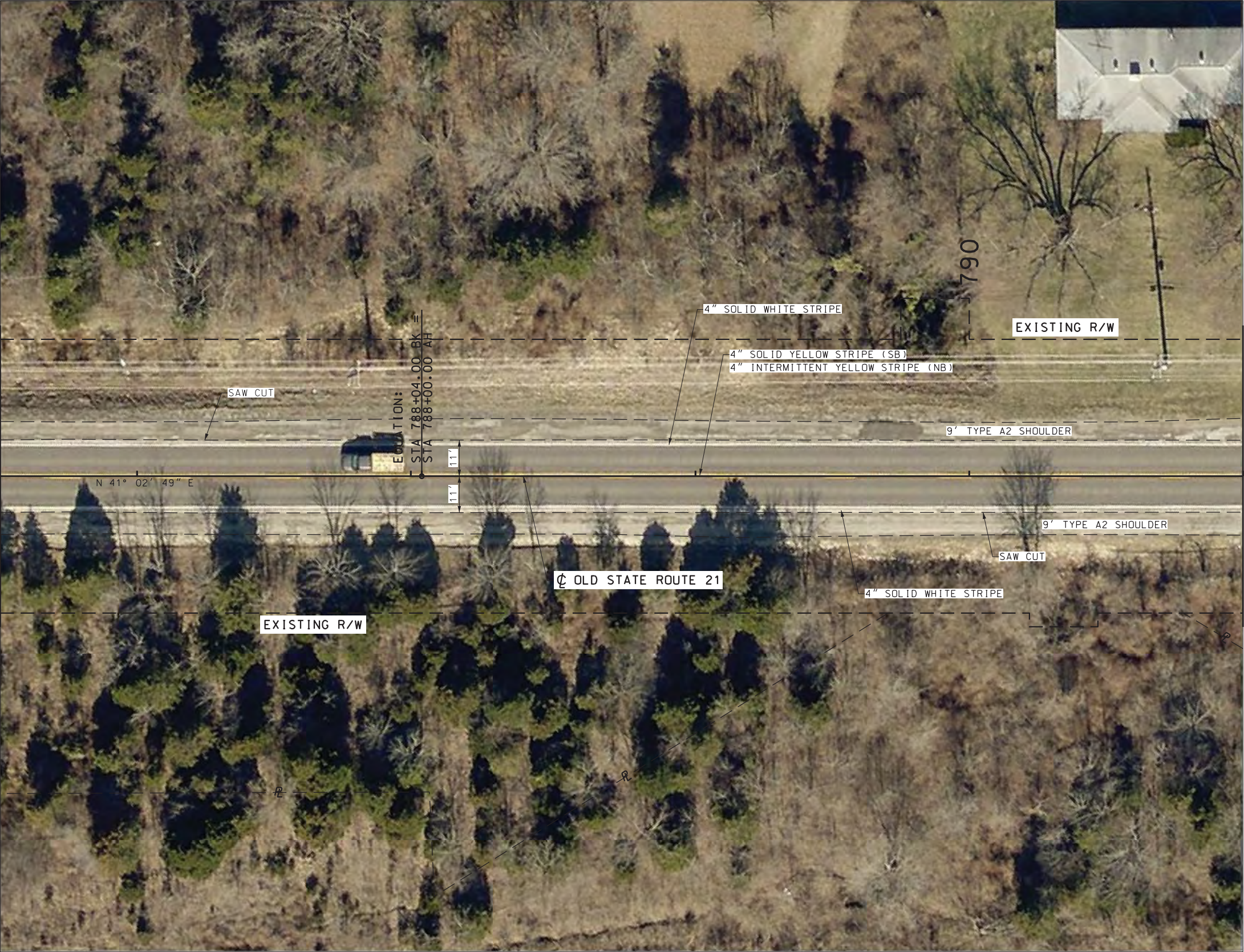
DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

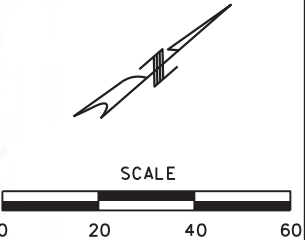
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org



MATCH LINE STA. 786+50



MATCH LINE STA. 791+00



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	11
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

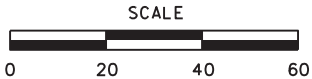
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffcomo.org



MATCH LINE STA. 791+00



MATCH LINE STA. 795+50



JA
JACOBS
501 MC
ST. LOUIS
PLANNING
CERTIFIC

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org

DATE	DESCRIPTION

PROJECT NO.

BRIDGE NO.

CONTRACT ID.

JOB NO.
PW17039RDW

COUNTY
JEFFERSON

DISTRICT
SL

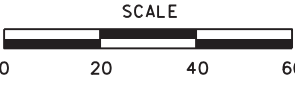
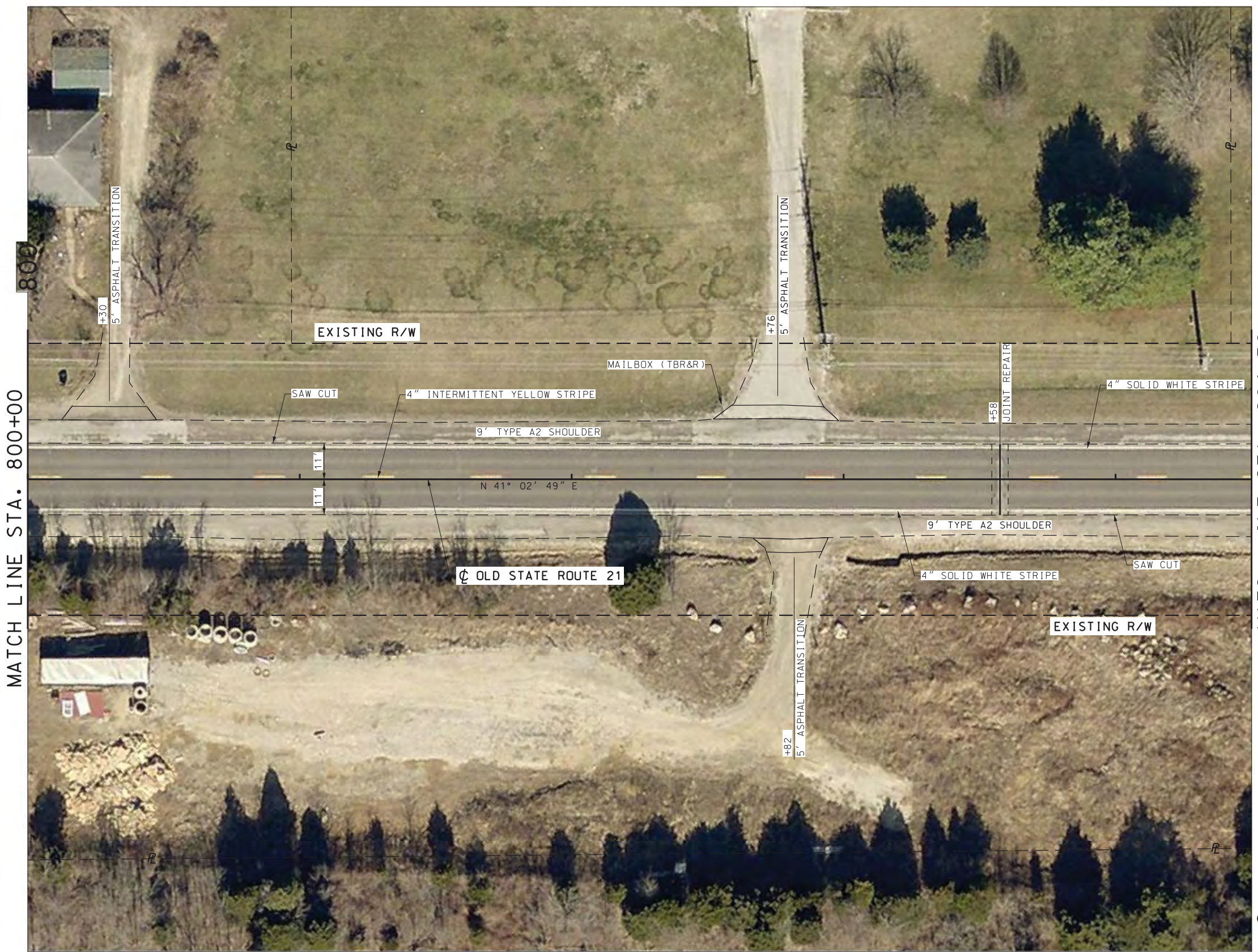
SHEET NO.
12

STATE
MO

ROUTE
21

DATE PREPARED
03-NOV-2016





DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	14
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

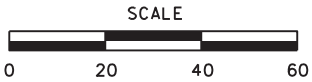
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org



MATCH LINE STA. 804+50



MATCH LINE STA. 809+00



DATE PREPARED
03-NOV-2016

ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 15
COUNTY JEFFERSON	
JOB NO. PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

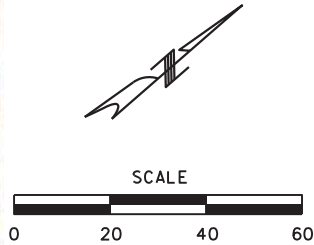
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffcomo.org



MATCH LINE STA. 809+00



MATCH LINE STA. 813+50



DATE PREPARED
03-NOV-2016

ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 16
COUNTY JEFFERSON	
JOB NO. PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

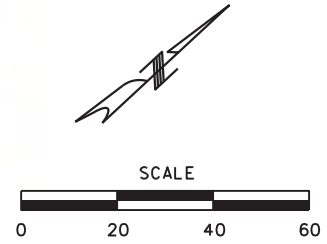
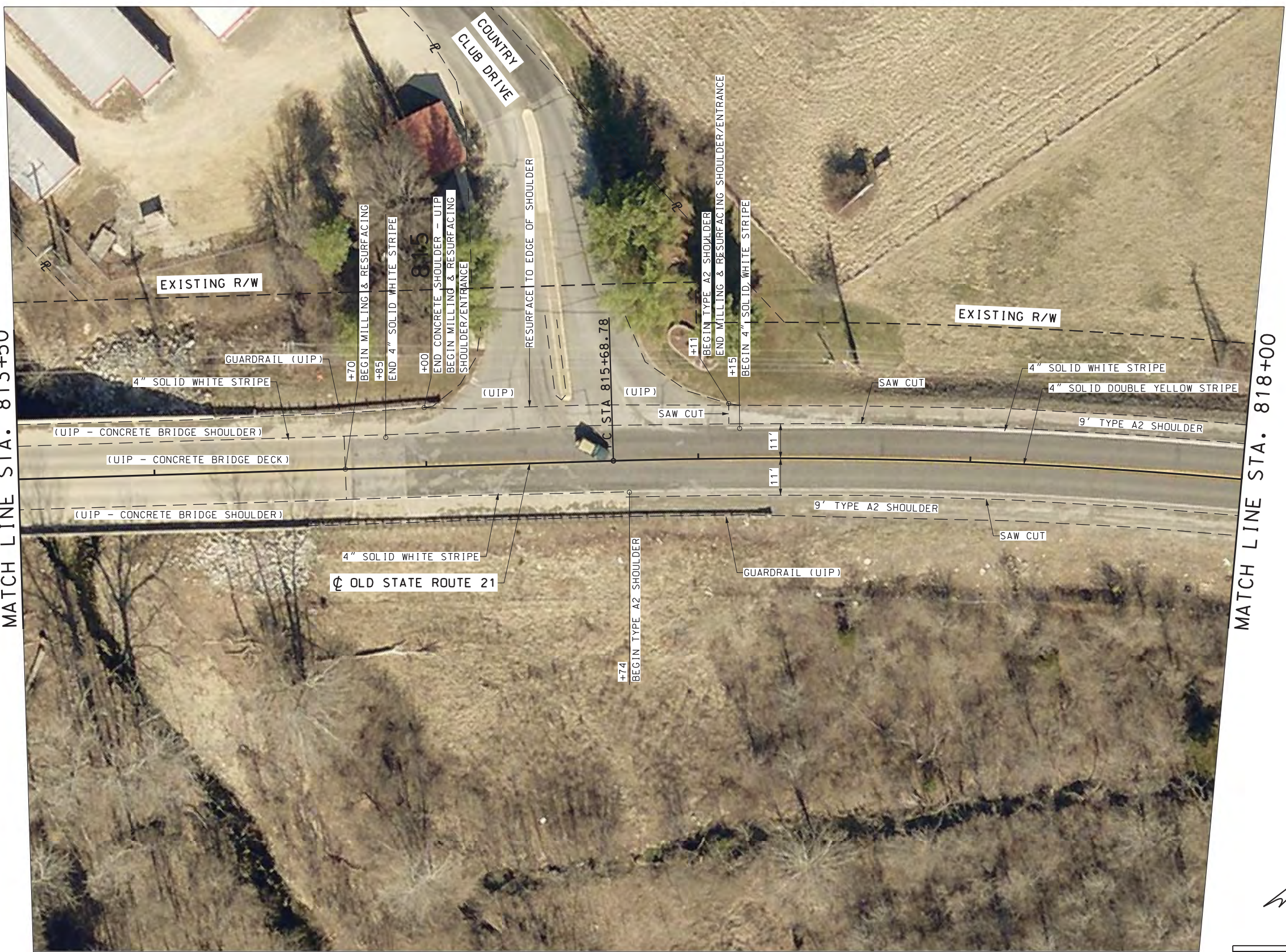
DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffcomo.org



MATCH LINE STA. 813+50



STATE OF MISSOURI

RICHARD S. BAUM

REGISTERED PROFESSIONAL ENGINEER

NUMBER E-24320

DATE PREPARED

03-NOV-2016

ROUTE 21

DISTRICT SL

STATE MO

SHEET NO. 17

COUNTY JEFFERSON

JOB NO. PW17039RDW

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY

PUBLIC WORKS DEPARTMENT

JEFFERSON COUNTY

SEAL

JA

JACOBS

501 N. G. ST.

ST. LOUIS, MO 63101

PH: 314.453.1000

F: 314.453.1001

WWW.JACOBSCORP.COM

P.O. BOX 100

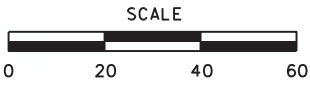
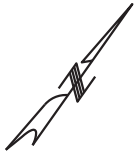
HILLSBORO, MO 63050

(636-797-5340)

www.jeffcomo.org



OLD STATE ROUTE 21
P.I. 821+75.00
N - 944.820.30
E - 828.124.65
Δ - 35°13'00"
D - 2°59'59"
T - 606.22'
L - 1174.02'
R - 1910.08'
SE - match exist.
W - n/a



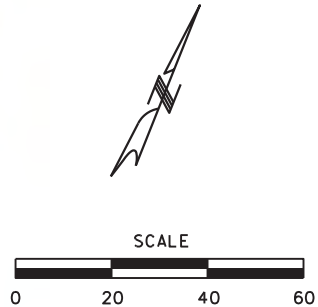
DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	18
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
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DATE PREPARED
03-NOV-2016

ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 19

COUNTY
JEFFERSON

JOB NO.
PW17039RDW

CONTRACT ID.

PROJECT NO.

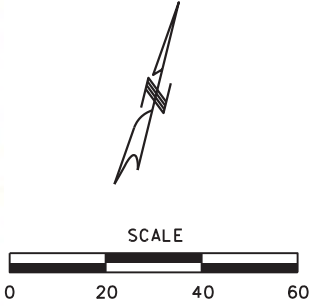
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org





DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	20
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

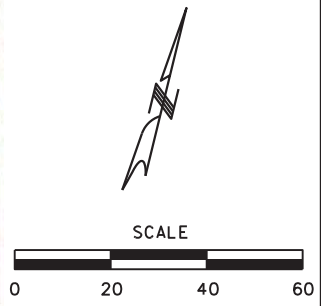
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org



MATCH LINE STA. 828+50



MATCH LINE STA. 833+00



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	21
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

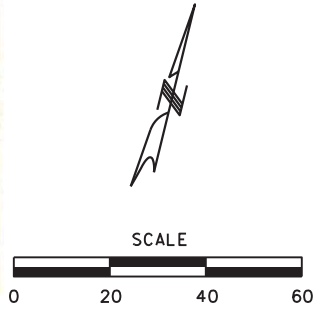
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.mo.org



MATCH LINE STA. 833+00



MATCH LINE STA. 837+50



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	22
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

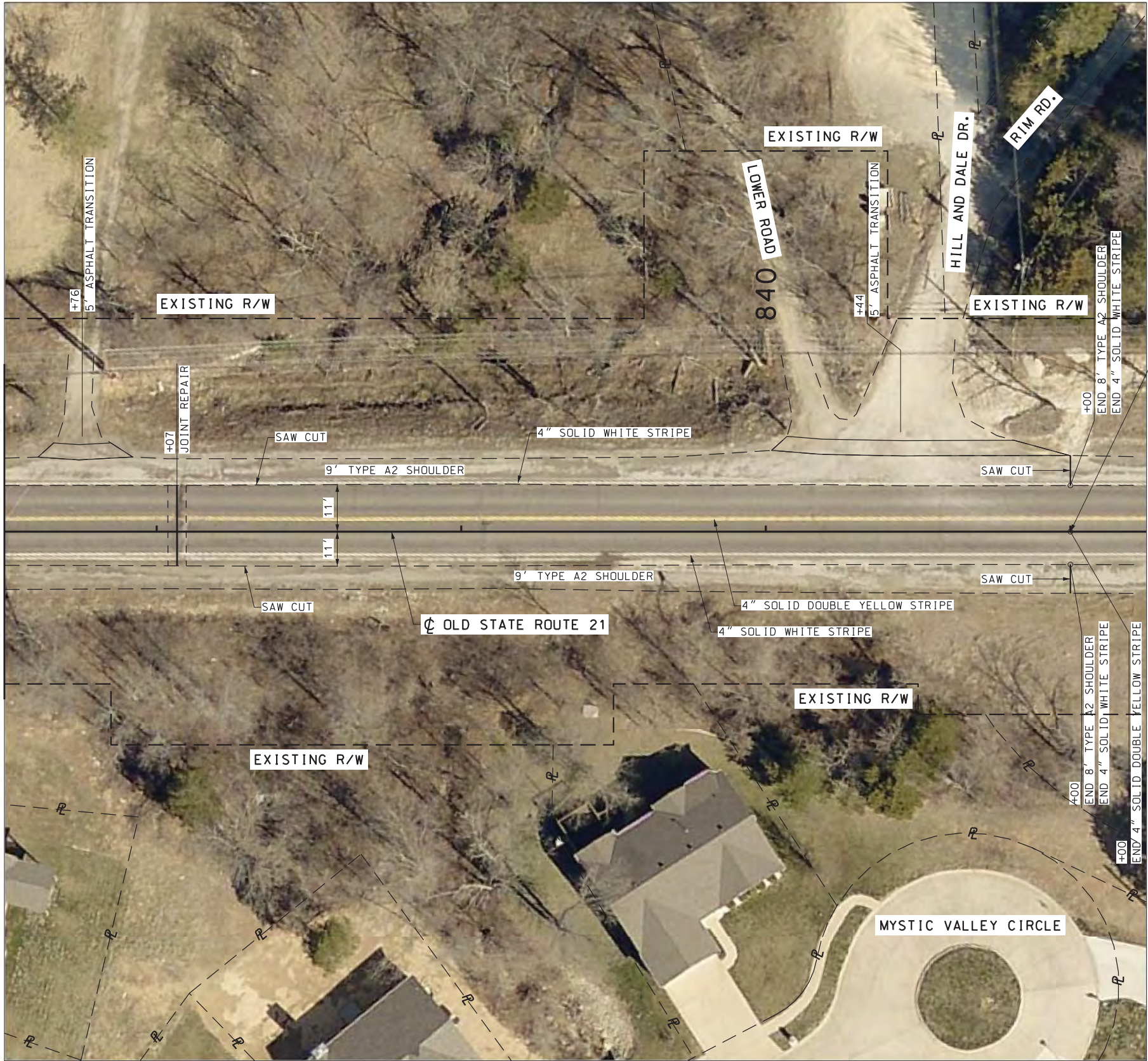
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

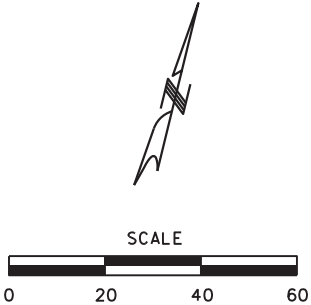
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco-mo.org



MATCH LINE STA. 837+50



STA. 841+00.00
BEGIN EXCEPTION -
PHASE 4 (BY OTHERS)
N 945,356.54
E 830,318.37



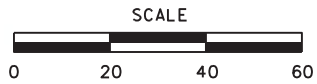
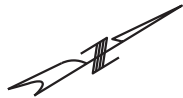
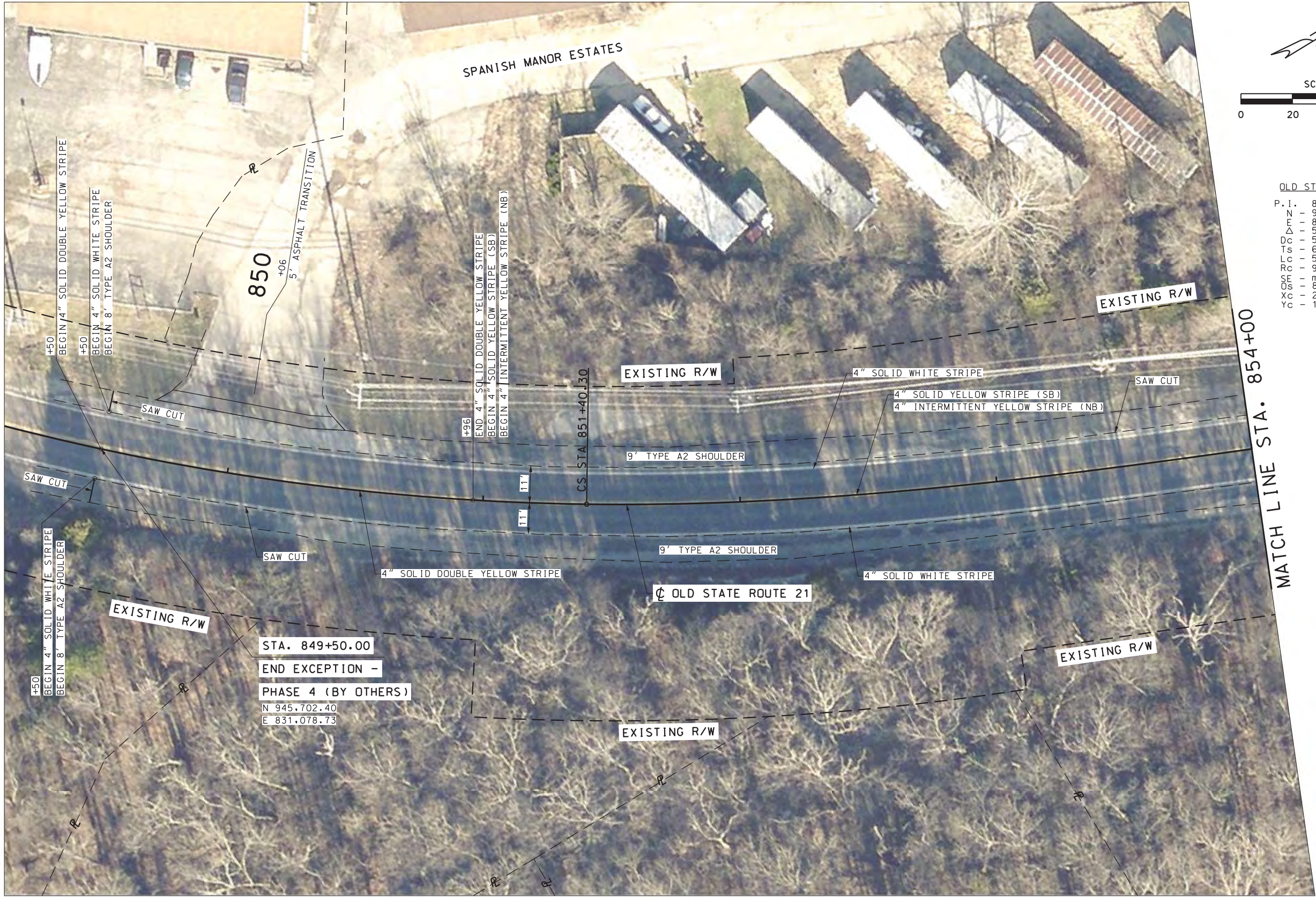
DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	23
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSDALE, MO 63050
(636-797-5340)
www.jeffco.org





OLD STATE ROUTE 21

P.I. = 848+83.99
N = 945,542.71
E = 831,079.94
Δ = 53°07'00"
Dc = 5°59'50"
Ts = 629.38'
Lc = 585.69'
Rc = 955.37'
Sf = match exist.
Og = 8°59'45"
Xc = 299.26'
Yc = 15.67'



DATE PREPARED 03-NOV-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 24
COUNTY JEFFERSON	
JOB NO. PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffcomo.org

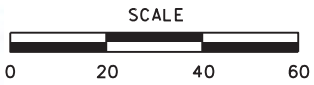


J.A. JACOBS & ASSOCIATES, INC.
501 N. G. ST.
ST. LOUIS, MO 63101
CERTIFIED

MATCH LINE STA. 854+00



MATCH LINE STA. 858+50

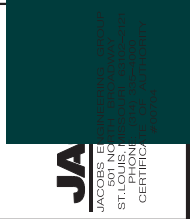


DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	25
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

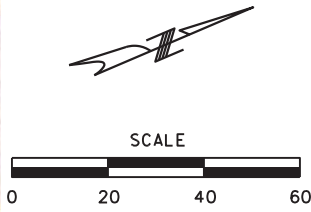
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org



MATCH LINE STA. 858+50



MATCH LINE STA. 863+00



JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



P.O. BOX 100
HILLSDALE, MO 63050
(636-797-5340)
www.jeffcomo.org

DATE	DESCRIPTION

PROJECT NO.

BRIDGE NO.

CONTRACT ID.

JOB NO.

COUNTY

DISTRICT

ROUTE

STATE

DATE PREPARED

03-NOV-2016

REGISTERED

PROFESSIONAL

NUMBER

E-24320

RICHARD S. BAUM

STATE OF MISSOURI

REGISTERED

PROFESSIONAL

NUMBER

E-24320

RICHARD S. BAUM

STATE OF MISSOURI

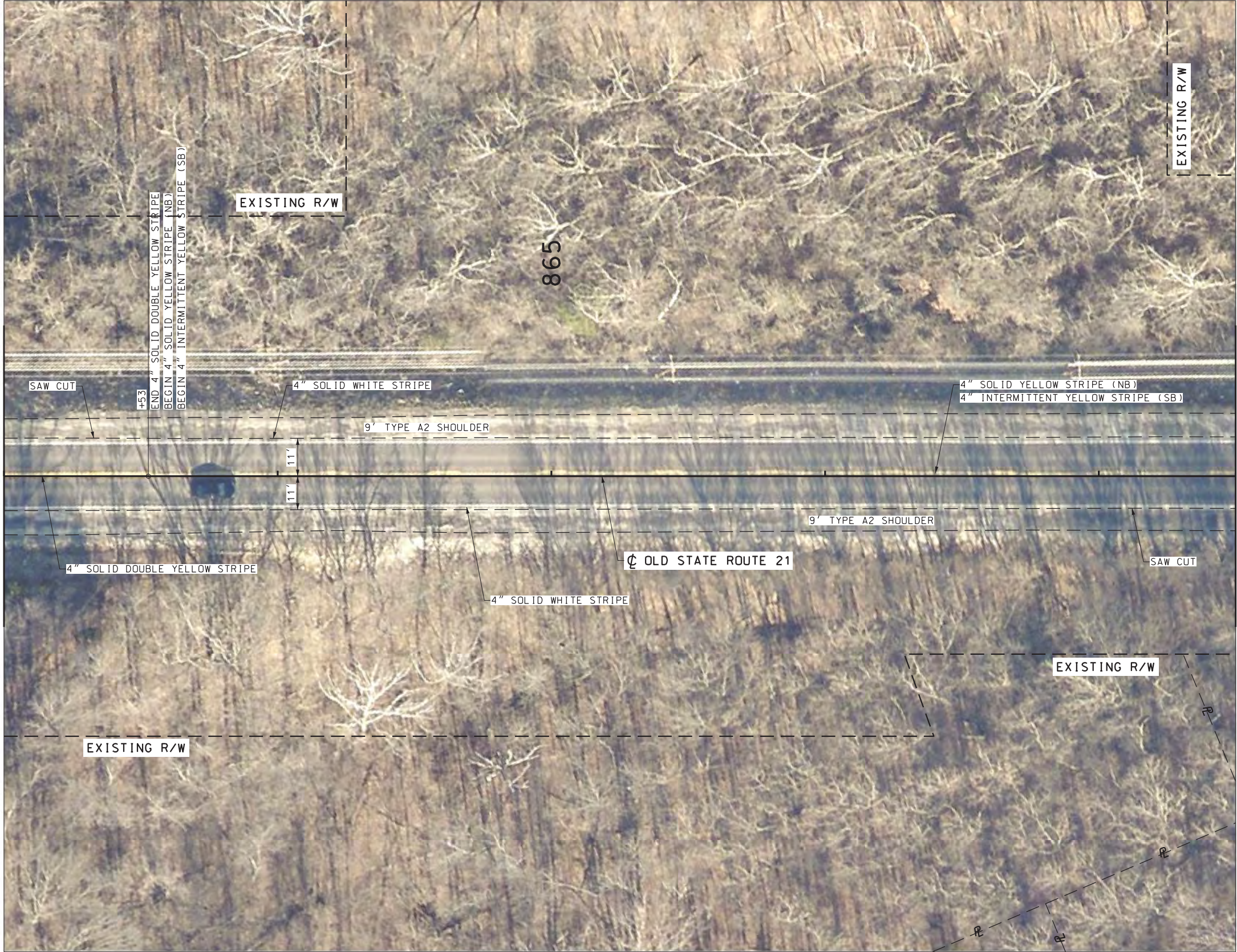
REGISTERED

PROFESSIONAL

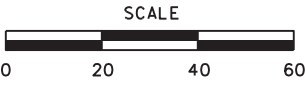
NUMBER

E-24320

MATCH LINE STA. 863+00



MATCH LINE STA. 867+50



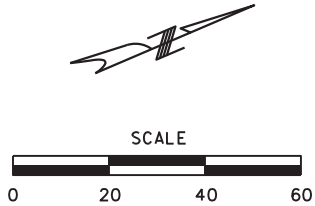
DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	27
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSDALE, MO 63050
(636-797-5340)
www.jeffcomo.org





DATE PREPARED 03-NOV-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 28
COUNTY JEFFERSON	
JOB NO. PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

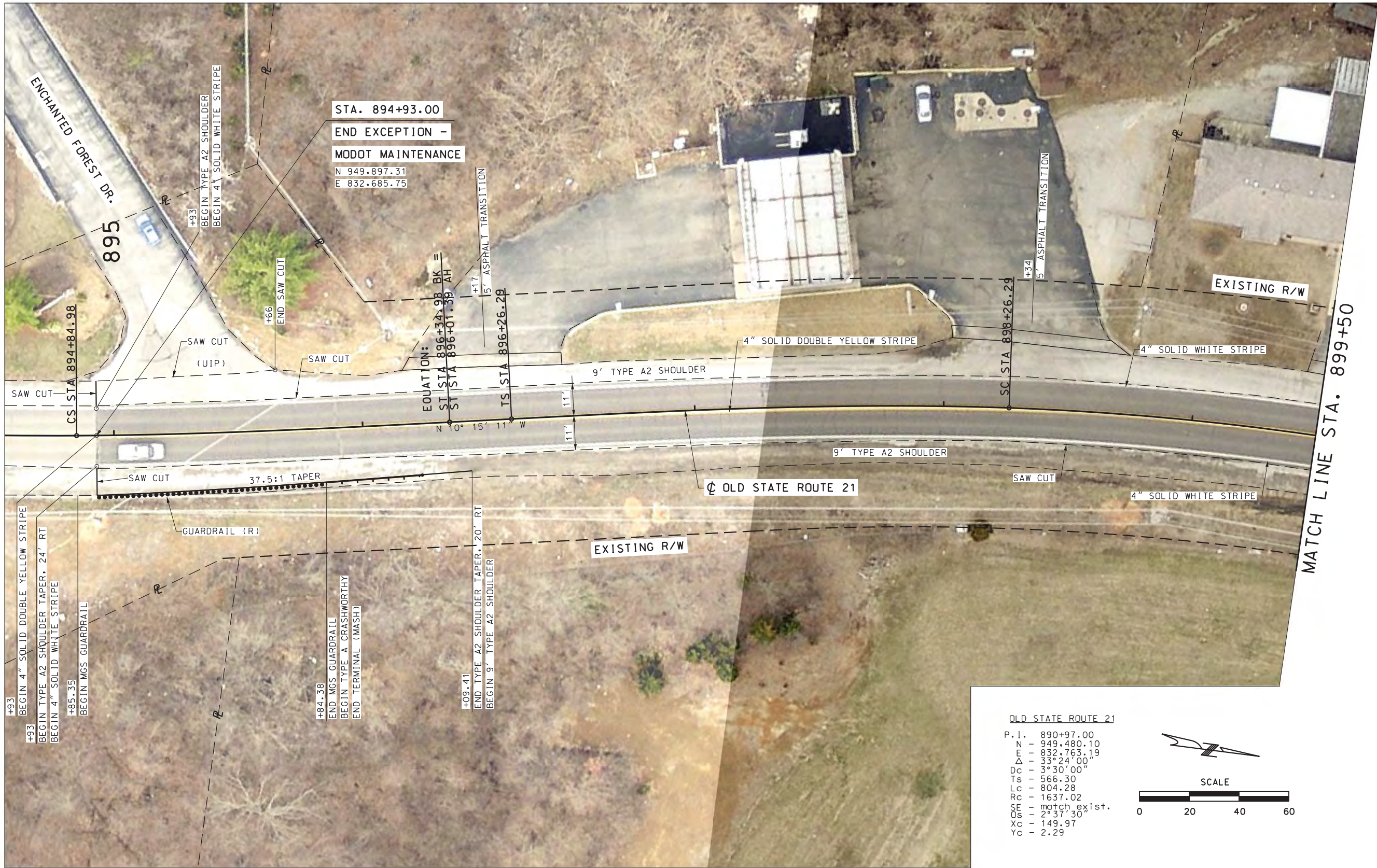
DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org

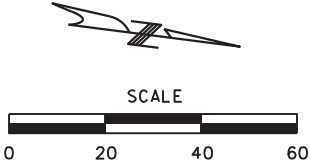


JACOBSON ENGINEERS & ARCHITECTS, P.C.
JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT
CERTIFIED



OLD STATE ROUTE 21

P.I. = 890+97.00
N = 949.480.10
E = 832.763.19
Δ = 33°24'00"
Dc = 3°30'00"
Ts = 566.30
Lc = 804.28
Rc = 1637.02
SE = match exist.
Os = 2°37'30"
Xc = 149.97
Yc = 2.29



DATE PREPARED
03-NOV-2016
ROUTE 21 STATE MO
DISTRICT SL SHEET NO. 29
COUNTY JEFFERSON
JOB NO. PW17039RDW
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org



JA
JACOBS
501 N. G.
ST. LOUIS, MO
CERTIFIED



DATE PREPARED
03-NOV-2016

ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 30

COUNTY
JEFFERSON

JOB NO.
PW17039RDW

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

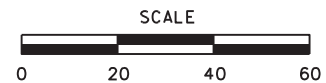
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org





OLD STATE ROUTE 21

P.I. = 905+50.24
N = 950.971.04
E = 832.493.50
Δ = 71°21'00"
Dc = 4°59'54"
Ts = 923.95'
Lc = 1227.45'
Rc = 1146.28'
SE = match exist.
Os = 4°59'54"
Xc = 199.85'
Yc = 5.81'



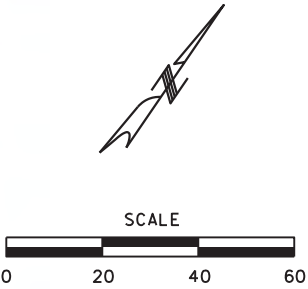
DATE PREPARED
03-NOV-2016
ROUTE **21** STATE **MO**
DISTRICT **SL** SHEET NO. **31**
COUNTY
JEFFERSON
JOB NO.
PW17039RDW
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco-mo.org





DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	32
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

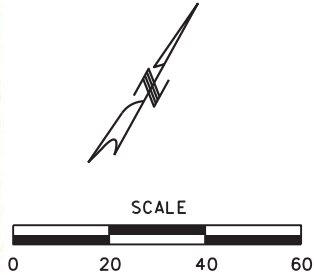
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.mo.org



MATCH LINE STA. 913+00



MATCH LINE STA. 917+50



JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffcomo.org

DATE	DESCRIPTION

PROJECT NO.

BRIDGE NO.

CONTRACT ID.

JOB NO.

PW17039RDW

COUNTY

JEFFERSON

DISTRICT

SL

SHEET NO.

33

ROUTE

21

STATE

MO

DATE PREPARED

03-NOV-2016

REGISTERED

PROFESSIONAL

NUMBER

E-24320

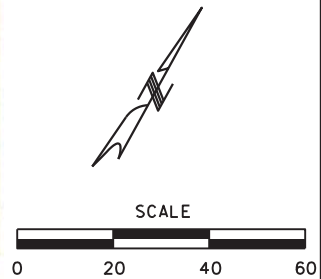
RICHARD S. BAUM

STATE OF MISSOURI

MATCH LINE STA. 917+50



MATCH LINE STA. 922+00



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	34
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

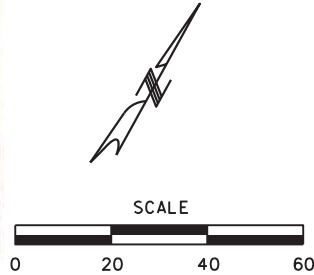
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.mo.org

J.A. JACOBS & ASSOCIATES, INC.
501 N. G. STREET
ST. LOUIS, MO 63101
CERTIFIED PROFESSIONAL ENGINEERING FIRM

MATCH LINE STA. 922+00



MATCH LINE STA. 926+50



JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffcomo.org

DATE	DESCRIPTION

PROJECT NO.

BRIDGE NO.

CONTRACT ID.

JOB NO.
PW17039RDW

COUNTY
JEFFERSON

DISTRICT
SL

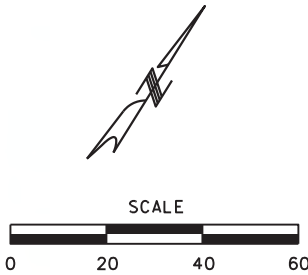
ROUTE
21

STATE
MO

SHEET NO.
35

DATE PREPARED
03-NOV-2016





DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	36
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

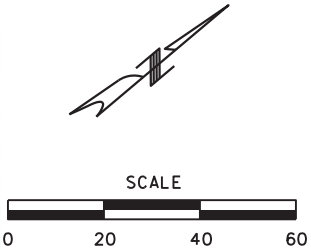
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org





OLD STATE ROUTE 21

- P.I. - 931+29.51
- N - 952,318.02
- E - 834,933.24
- Δ - 25°18'00"
- Dc - 4°59'54"
- Ts - 357.58'
- Lc - 306.16'
- Rc - 1146.28'
- SE - match exist.
- OS - 4°59'54"
- XC - 199.85'
- YC - 5.81'



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	37
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.

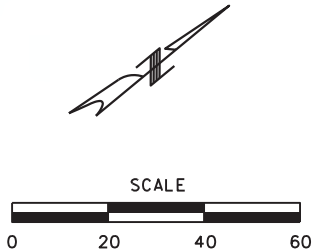
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffcomo.org





DATE PREPARED
03-NOV-2016

ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 38

COUNTY
JEFFERSON

JOB NO.
PW17039RDW

CONTRACT ID.

PROJECT NO.

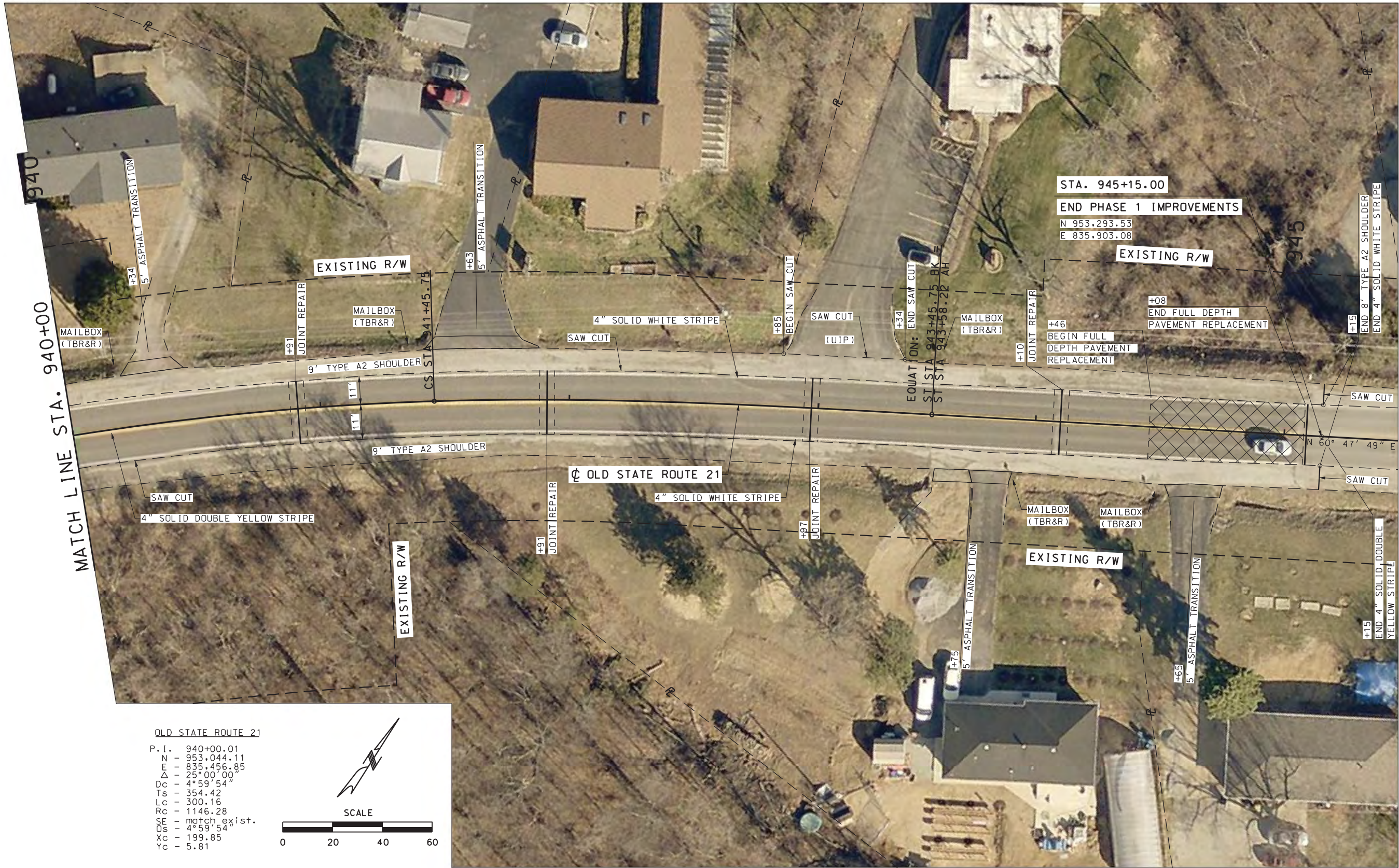
BRIDGE NO.

DATE	DESCRIPTION

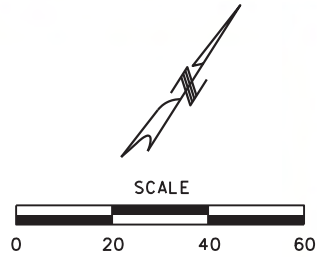
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.com.org





OLD STATE ROUTE 21
 P.I. = 940+00.01
 N = 953.044.11
 E = 835.456.85
 Δ = 25°00'00"
 DC = 4°59'54"
 Ts = 354.42
 Lc = 300.16
 Rc = 1146.28
 SE = match exist.
 Os = 4°59'54"
 Xc = 199.85
 Yc = 5.81



DATE PREPARED
03-NOV-2016
 ROUTE 21 STATE MO
 DISTRICT SL SHEET NO. 39
 COUNTY JEFFERSON
 JOB NO. PW17039RDW
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
 PUBLIC WORKS DEPARTMENT
 P.O. BOX 100
 HILLSBORO, MO 63050
 (636-797-5340)
 www.jeffco.org

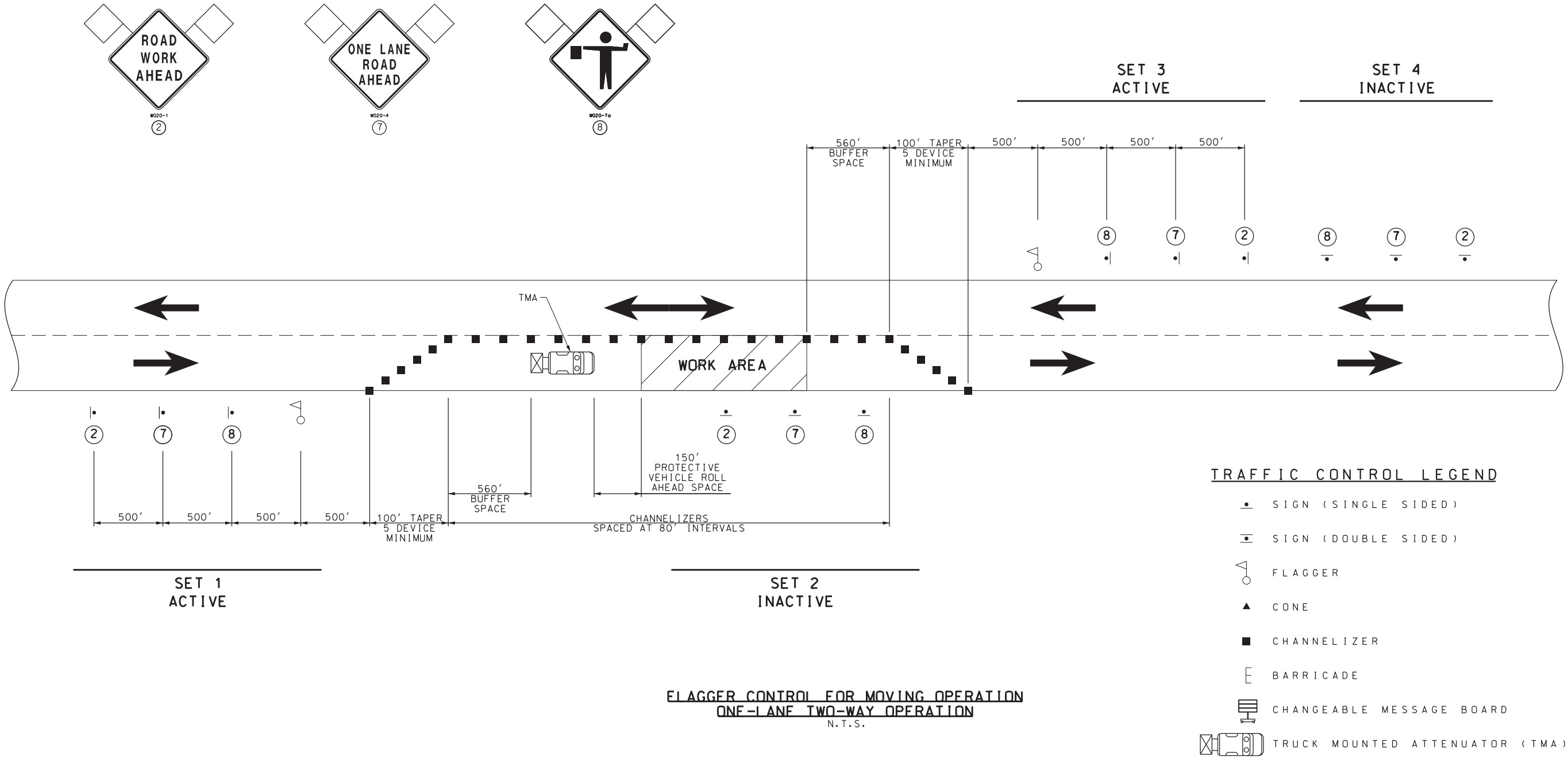


NOTES:

- ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL CONFORM TO CURRENT MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT AT LEAST ONE WEEK PRIOR TO CLOSING A LANE OR SHOULDER.
- SIGN SETS 1 AND 3 ARE ACTIVE AND FACING ONCOMING TRAFFIC.
- SIGN SETS 2 AND 4 ARE INACTIVE AND NOT FACING EITHER DIRECTION OF TRAFFIC WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.
- WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E. NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E. NEW SIGN SETS 2 AND 4).

SUGGESTED CONSTRUCTION SEQUENCE FOR OLD STATE ROUTE 21 IMPROVEMENTS:

- MILL 3-1/2" OF ASPHALT ON OLD STATE ROUTE 21 TRAVELED-WAY AND MILL/GRADE SHOULDERS TO MATCH TRAVELED-WAY ELEVATION AND TO MAINTAIN POSITIVE DRAINAGE (THE COST TO MILL/GRADE SHOULDERS SHALL BE CONSIDERED INCIDENTAL & THE COST TO BE INCLUDED IN OTHER ITEMS).
- CONSTRUCT FULL DEPTH PAVEMENT REPAIRS AT ALL LOCATIONS NOTED ON THE PLANS IN ACCORDANCE TO SECTION 613.10.2.3.2 OF MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- RESURFACE OLD STATE ROUTE 21 (1-3/4" LIFT OF BP-1).
- CONSTRUCT OLD STATE ROUTE 21 A2 SHOULDERS (AGGREGATE BASE & 4" PMBB).
- RESURFACE OLD STATE ROUTE 21 (FINAL LIFT OF 1-3/4" BP-1).
- CONSTRUCT OLD STATE ROUTE 21 A2 SHOULDERS (1-3/4" BP-1).



FLAGGER CONTROL FOR MOVING OPERATION
ONE-LANE TWO-WAY OPERATION
N.T.S.

STATE OF MISSOURI

RICHARD S. BAUM

REGISTERED PROFESSIONAL ENGINEER

NUMBER E-24320

DATE PREPARED

03-NOV-2016

ROUTE

21

STATE

MO

DISTRICT

SL

SHEET NO.

40

COUNTY

JEFFERSON

JOB NO.

PW17039RDW

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT

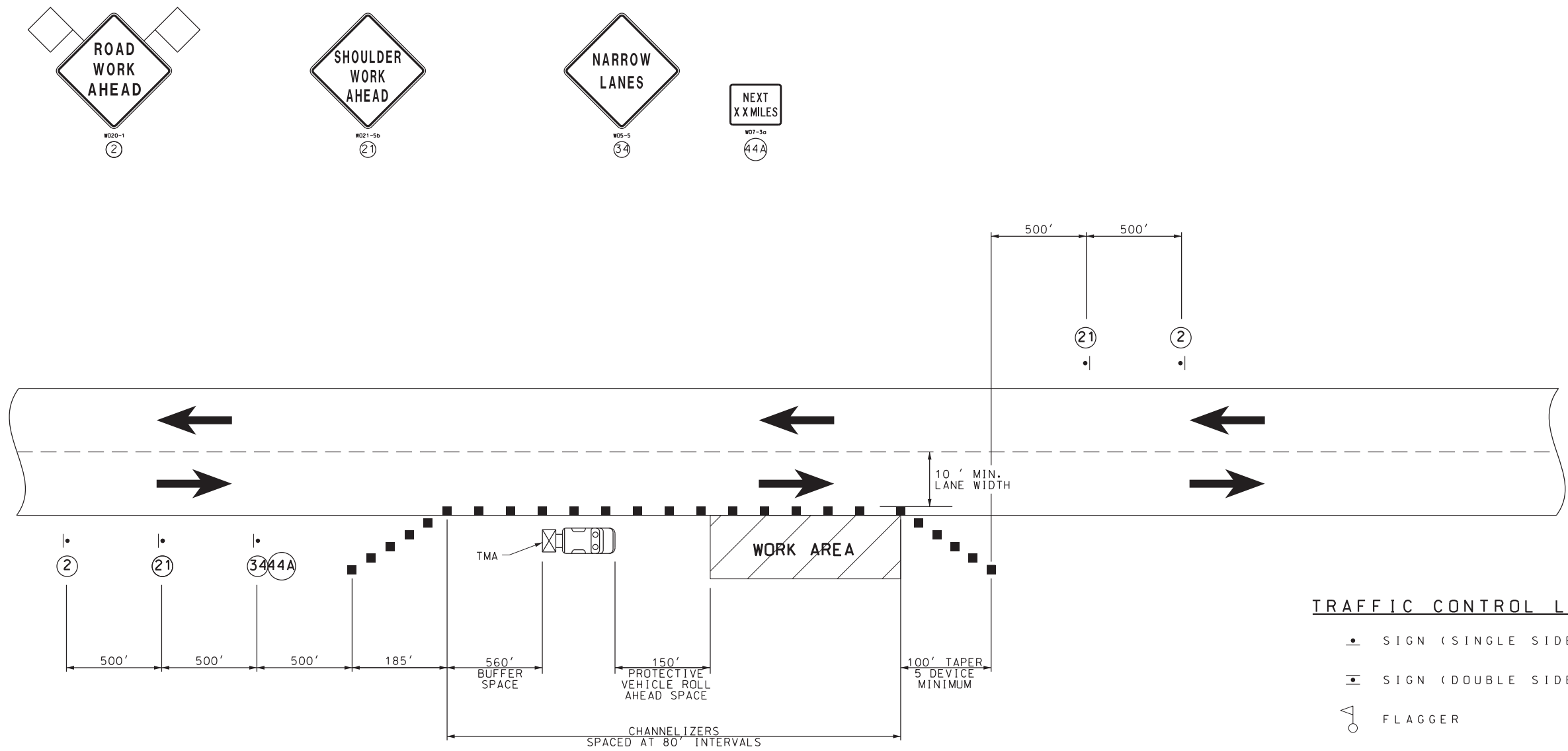
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org

JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT

JACOBSON & ASSOCIATES, INC.

501 N. G. ST., SUITE 100
JEFFERSON, MO 63050
TEL: 636-797-5340
FAX: 636-797-5341
WWW.JEFFCO.ORG

- NOTES:
1. ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL CONFORM TO CURRENT MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD PLANS AND STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
 2. THE CONTRACTOR SHALL CONTACT JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT AT LEAST ONE WEEK PRIOR TO CLOSING A LANE OR SHOULDER.
 3. THE CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE NORMAL INGRESS & EGRESS TO PRIVATE ENTRANCES AT NO ADDITIONAL COST TO THE CONTRACT.
 4. SIGN 44A NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.



SHOULDER WORK
MINOR TRAVELWAY ENCROACHMENT
N.T.S.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◐ SIGN (DOUBLE SIDED)
- ◑ FLAGGER
- ▲ CONE
- CHANNELIZER
- E BARRICADE
- ◑ CHANGEABLE MESSAGE BOARD
- ◑ TRUCK MOUNTED ATTENUATOR (TMA)



DATE PREPARED
03-NOV-2016

ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 41

COUNTY
JEFFERSON

JOB NO.
PW17039RDW

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

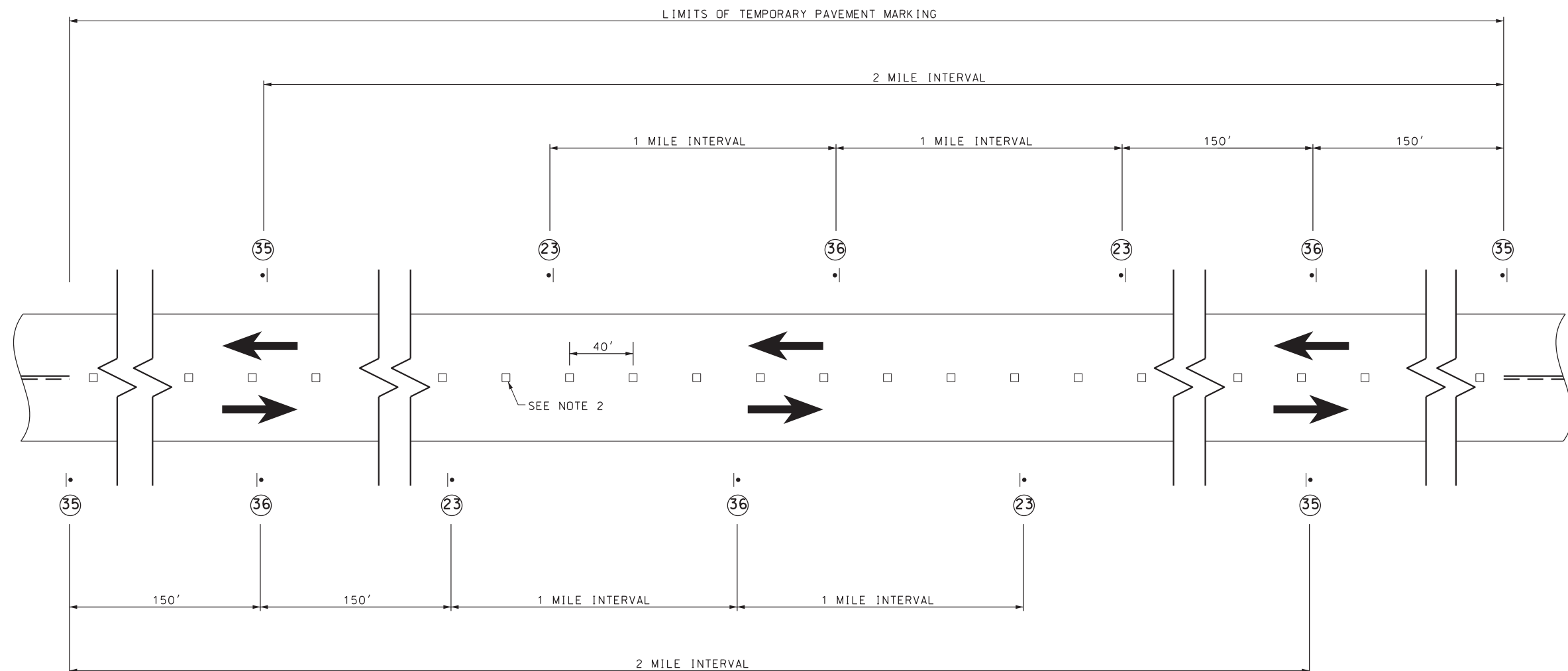
DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org



1. ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL CONFORM TO CURRENT MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD PLANS AND STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
2. THE CONTRACTOR SHALL UTILIZE WATERBORNE PAINT, TYPE P BEADS FOR TEMPORARY MARKINGS ON MILLED SURFACES AND TYPE 2 TEMPORARY RAISED PAVEMENT MARKERS AFTER THE FIRST LIFT OF BP-1.
3. SIGN 23 (W08-17) TO REMAIN VISIBLE UNTIL SHOULDER SHAPING IS COMPLETE.
4. WHEN SIGN 23 (W08-17) SHOULDER DROP-OFF SIGNS ARE IN PLACE FOR GREATER THAN THREE (3) DAYS, THE SHOULDER DROP-OFF PLAQUE (W08-17P) SHOULD BE USED IN ADDITION WITH THE SHOULDER DROP-OFF SIGN (W08-17).



TRAFFIC CONTROL LEGEND

- | | |
|---|--------------------------------|
|  | SIGN (SINGLE SIDED) |
|  | SIGN (DOUBLE SIDED) |
|  | FLAGGER |
|  | CONE |
|  | CHANNELIZER |
|  | BARRICADE |
|  | CHANGEABLE MESSAGE BOARD |
|  | TRUCK MOUNTED ATTENUATOR (TMA) |



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	42
COUNTY	
JEFFERSON	
JOB NO.	
PW17039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

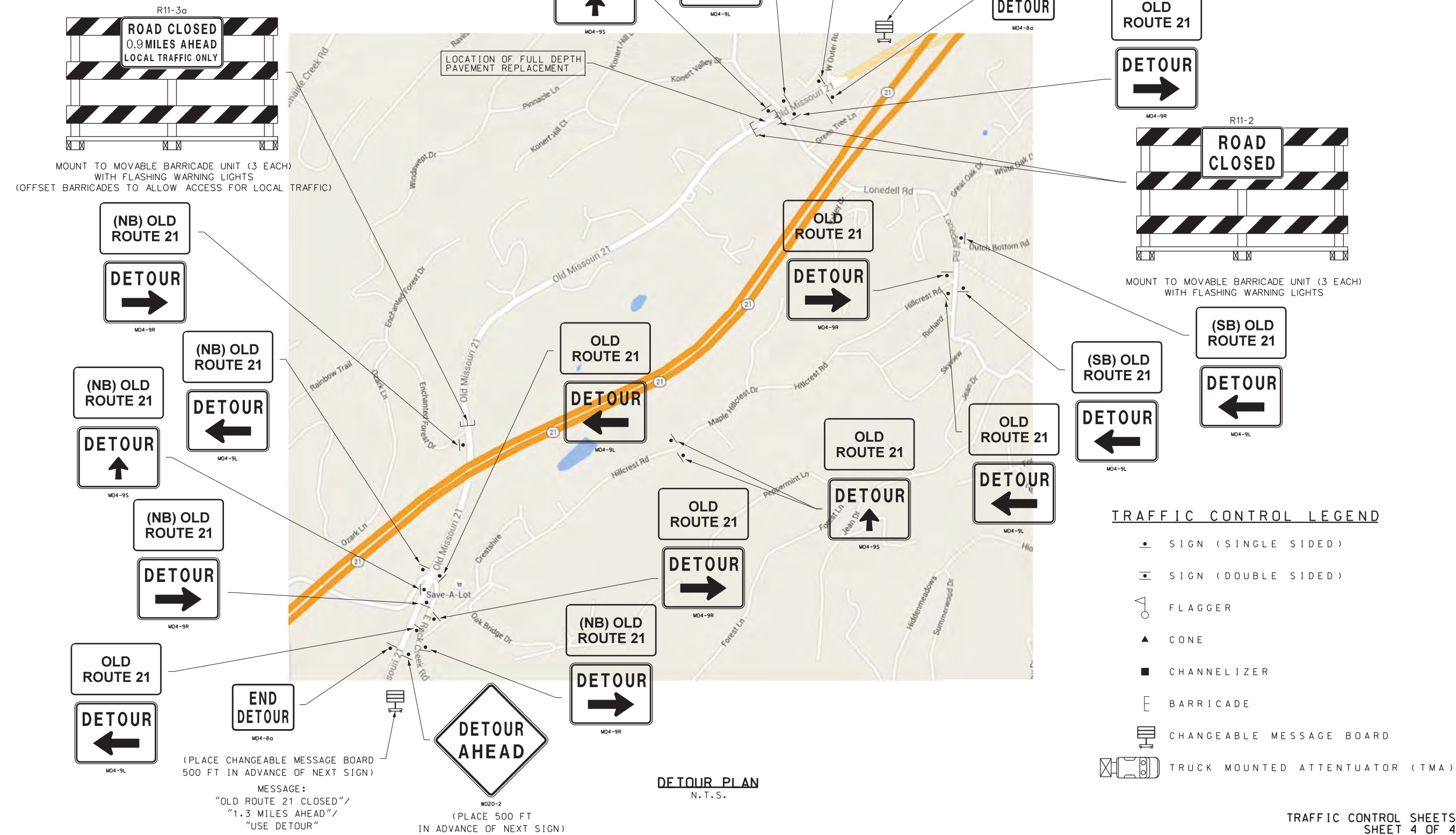
[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



JACOBS ENGINEERING
501 NORTH
ST. LOUIS, MISSOURI
PHONE
CERTIFICATE

- NOTES:
1. ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL CONFORM TO CURRENT MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD PLANS AND STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
 2. THE CONTRACTOR SHALL CONTACT JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT AT LEAST ONE WEEK PRIOR TO IMPLEMENTING THE DETOUR PLAN FOR FULL DEPTH PAVEMENT REPLACEMENT AND JOINT REPAIR NORTH OF ENCHANTED FOREST DR.
 3. THE CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE NORMAL INGRESS & EGRESS TO PRIVATE ENTRANCES, MINOR SUBDIVISION ROADS AND COMMERCIAL ENTRANCES AT NO ADDITIONAL COST TO THE CONTRACT.
 4. PLACE CHANGEABLE MESSAGE BOARDS ONE WEEK IN ADVANCE OF CLOSURE TO WARN MOTORISTS OF UPCOMING DETOUR (COORDINATE WITH JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT).



STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
RICHARD S. BAUM
NUMBER E-24320

DATE PREPARED
03-NOV-2016

ROUTE 21
DISTRICT SL

STATE MO
SHEET NO. 43

COUNTY JEFFERSON

JOB NO. PW17039RDW

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
JACOB S. JACOBSON
NUMBER E-24320

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

TRAFFIC CONTROL SHEETS
SHEET 4 OF 4