PSE Power System Engineering, Inc.
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Cell: 304.203.8355

DWN BY P. McALLISTER SCALE AS SHOWN
DWN FOR BUCKEYE REC DATE 07/11/2024

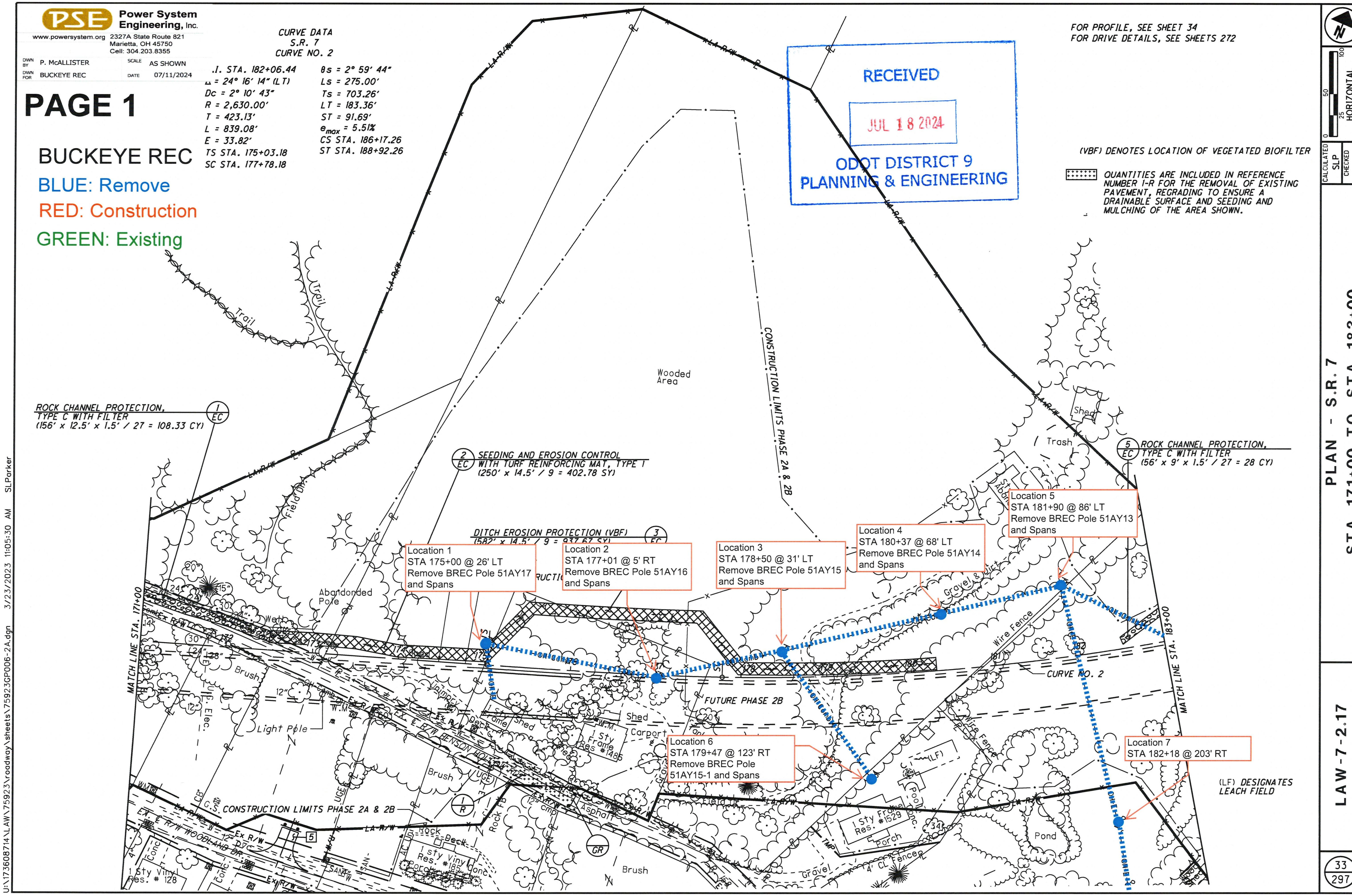
PAGE 1

BUCKEYE REC

BLUE: Remove

RED: Construction

GREEN: Existing



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Cell: 304.203.8355

DWN BY	P. McALLISTER	SCALE	AS SHOWN
DWN FOR	BUCKEYE REC	DATE	07/11/2024

PAGE 2

CURVE DATA
S.R. 7
CURVE NO. 2

P.I. STA. 182+06.44
Δ = 24° 16' 14" (LT)
Dc = 2° 10' 43"
R = 2,630.00'
T = 423.13'
L = 839.08'
E = 33.82'
TS STA. 175+03.18
SC STA. 177+78.18

θs = 2° 59' 44"
Ls = 275.00'
Ts = 703.26'
LT = 183.36'
ST = 91.69'
e_{max} = 5.51%
CS STA. 186+17.26
ST STA. 188+92.26

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED SLP
CHECKED ALB

PLAN - S.R. 7
STA. 183+00 TO STA. 195+00

LAW-7-72.17

35
297

ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (203' x 9' x 1.5' / 27 = 101.5 CY) — 1 EC

SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2 (200' X 14.5' / 9 = 322.22 SY) — 4 EC

ROCK CHANNEL PROTECTION, TYPE B WITH FILTER (150' x 13' x 2.5' / 27 = 180.56 CY) — 5 EC

SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2 (50' X 18' / 9 = 100 SY) — 8 EC

Location 8
STA 183+09 @ 262' RT
Remove BREC Abandoned Pole

Location 9
STA 183+52 @ 34' RT
Remove BREC Pole 51AY12 and Spans

Location 10
STA 185+72 @ 220' RT
Remove BREC Pole and Spans

Location 11
STA 186+33 @ 289' RT
Existing BREC Pole 51AY10

Location 12
STA 185+00 @ 325' RT
Existing BREC Pole 51AY10-1

Location 13
STA 193+38 @ 124' RT
Remove BREC Pole and Span

Location 14
STA 194+37 @ 173' RT
Existing BREC Pole 51AY7-6
Install New Span to Loc. 58

Location 15
STA 192+92 @ 305' RT
Existing BREC Pole 51AY7-5

CONSTRUCTION LIMITS PHASE 2A & 2B

℄ CONSTRUCTION S.R. 7

FUTURE PHASE 2B

℄ CONSTRUCTION C.R. 104 FUTURE PHASE 2B

STREAM 7 OHWM = 578.2

STREAM 6 OHWM = 600.0

POND 1

N 46° 38' 02" E

STA. 194+00.00

ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (224' x 6.5' x 1.5' / 27 = 80.89 CY) — 3 EC

ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (104' x 7.5' x 1.5' / 27 = 43.33 CY) — 6 EC

2 EC ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (107' x 7' x 1.5' / 27 = 41.61 CY)

7 EC DITCH EROSION PROTECTION MAT, TYPE B (53' x 7.5' / 9 = 44.17 SY)

SAWCUT CONCRETE AT LA-R/W. DO NOT DISTURB CONCRETE OUTSIDE OF THE LA-R/W.

TAPERS PROVIDED FOR INFORMATION ONLY

(A) - STA. 185+03.46 BEGIN PAVEMENT TAPER, 56' RT.

(B) - STA. 191+63.46 BEGIN SHOULDER TAPER, 49' RT.

(C) - STA. 192+23.46 END PAVEMENT TAPER, 44' RT. END SHOULDER TAPER, 54' RT.

FOR PROFILE, SEE SHEET 36

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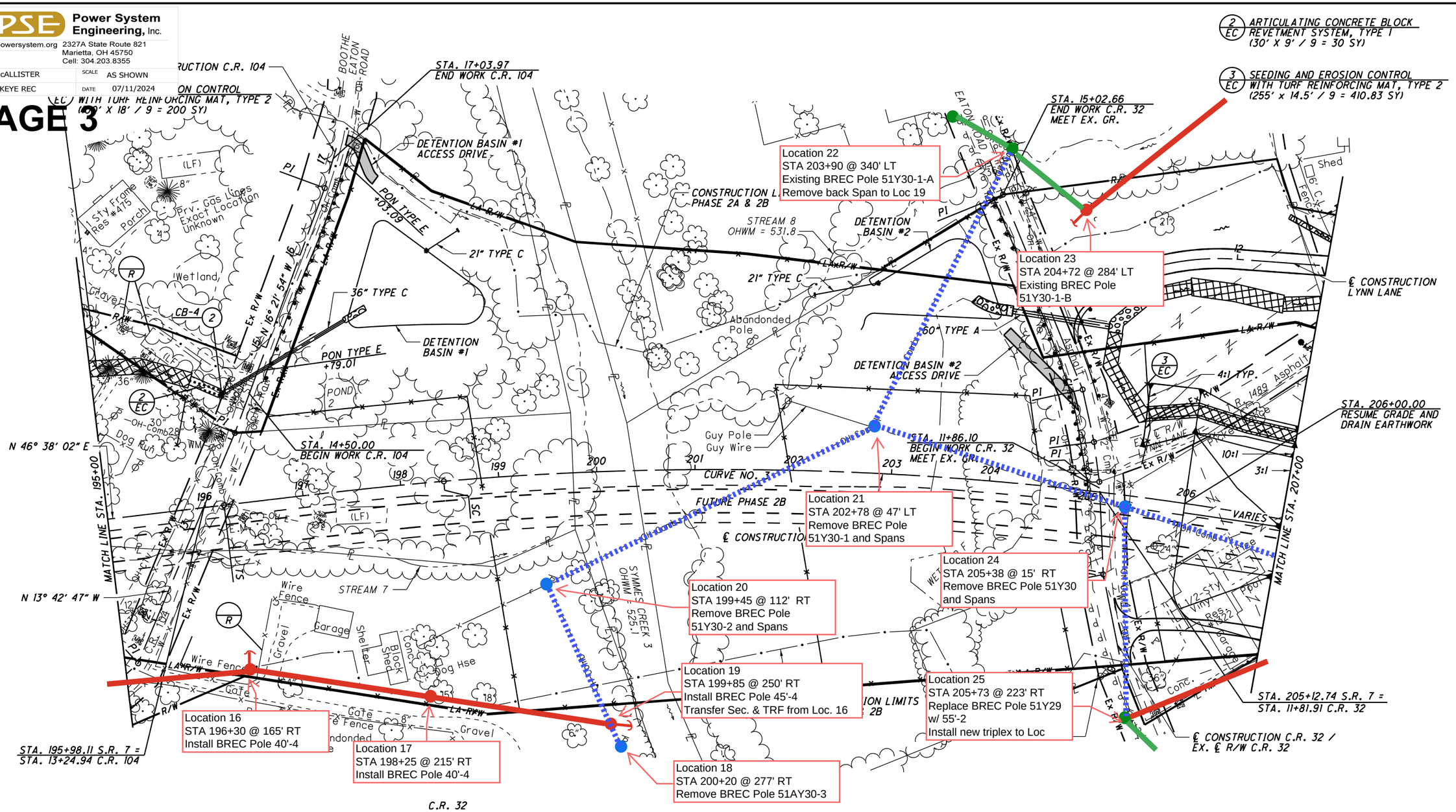
DWN BY	P. McALLISTER	SCALE	AS SHOWN
DWN FOR	BUCKEYE REC	DATE	07/11/2024

PAGE 3



CURVE DATA
S.R. 7
CURVE NO. 3

P.I. STA. 205+33.31
Δ = 27° 30' 45" (RT)
Dc = 1° 45' 00"
R = 3,274.04'
T = 683.24'
L = 1,347.14'
E = 70.53'
TS STA. 196+19.13
SC STA. 198+44.13

θs = 1° 58' 07"
Ls = 225.00'
Ts = 914.18'
LT = 150.01'
ST = 75.01'
e_{max} = 4.60%
CS STA. 211+91.27
ST STA. 214+16.27

C.R. 104

P.I. STA. 11+53.11
Δ = 2° 41' 45"
NO CURVE

P.I. STA. 14+07.46
Δ = 2° 39' 07"
NO CURVE

P.I. STA. 16+72.90
Δ = 4° 02' 33"
NO CURVE

C.R. 32

P.I. STA. 10+98.09
Δ = 9° 00' 49"
NO CURVE

P.I. STA. 11+92.44
Δ = 5° 16' 18"
NO CURVE

P.I. STA. 12+33.35
Δ = 4° 36' 08"
NO CURVE

P.I. STA. 12+87.96
Δ = 9° 55' 50"
NO CURVE

P.I. STA. 15+02.34
Δ = 0° 49' 53"
NO CURVE

(LF) DESIGNATES LEACH FIELD

FOR PROFILE, SEE SHEET 38
FOR LYNN LANE PLAN AND PROFILE, SEE SHEET 249
FOR CULVERT DETAIL, SEE SHEET 279
FOR STORM SEWER PROFILES, SEE SHEET 274
FOR DETENTION BASIN DETAILS, SEE SHEETS 292-294

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED SLP CHECKED ALB

PLAN - S.R. 7
STA. 195+00 TO STA. 207+00

LAW-7-2.17

37
297

U:\17360714\LAW\75923\roadway\sheets\75923GP008-2A.dgn 3/23/2023 11:05:52 AM SLPorker

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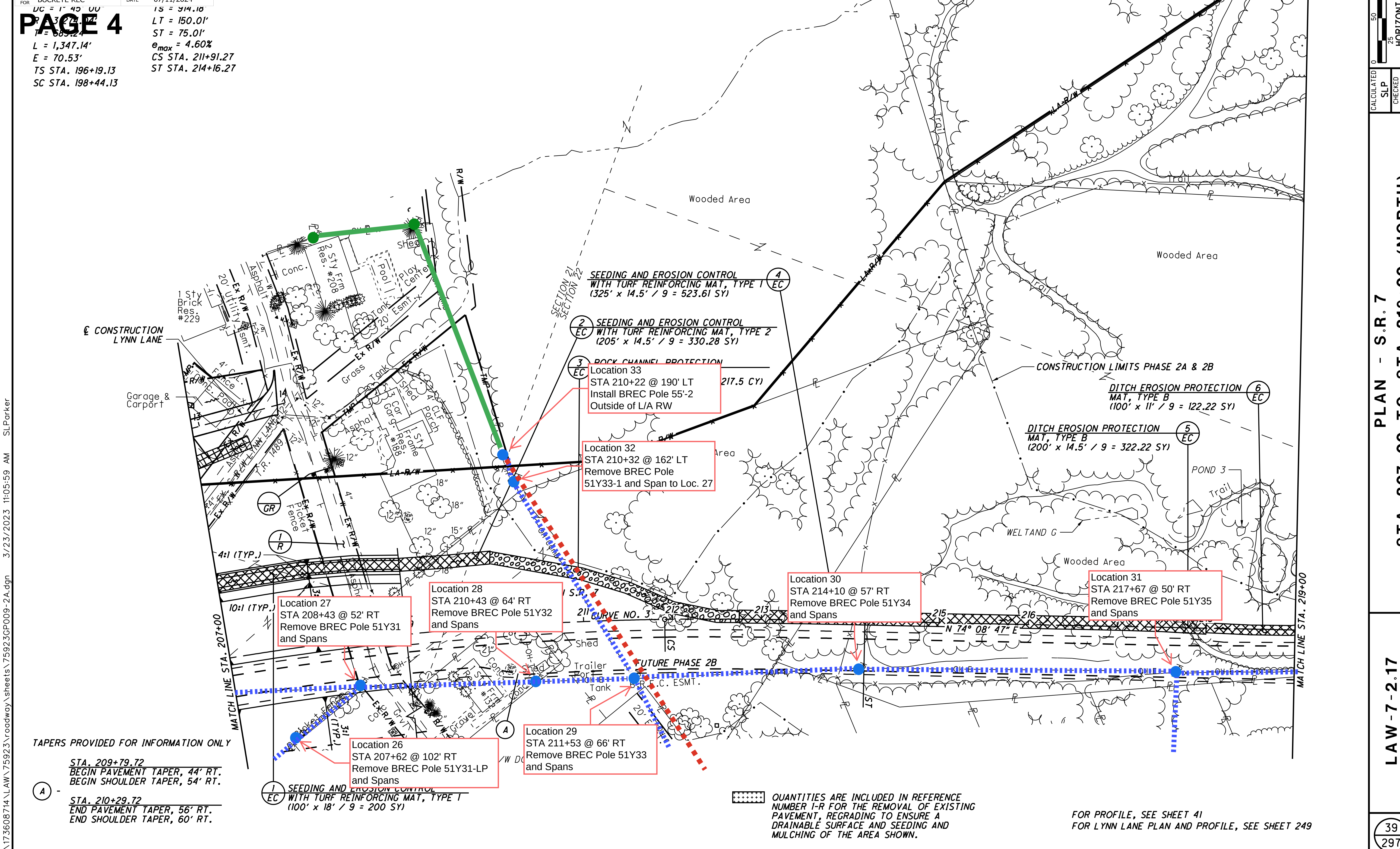
Marietta, OH 45750
Cell: 304.203.8355

DWN BY	P. McALLISTER	SCALE	AS SHOWN
DWN FOR	BUCKEYE REC	DATE	07/11/2024

PAGE 4


L = 1,347.14'
E = 70.53'
TS STA. 196+19.13
SC STA. 198+44.13
LT = 150.01'
ST = 75.01'
e_{max} = 4.60%
CS STA. 211+91.27
ST STA. 214+16.27
Location 33
STA 210+22 @ 190' LT
Install BREC Pole 55'-2
Outside of L/A RW
Location 32
STA 210+32 @ 162' LT
Remove BREC Pole
51Y33-1 and Span to Loc. 27
Location 27
STA 208+43 @ 52' RT
Remove BREC Pole 51Y31
and Spans
Location 28
STA 210+43 @ 64' RT
Remove BREC Pole 51Y32
and Spans
Location 30
STA 214+10 @ 57' RT
Remove BREC Pole 51Y34
and Spans
Location 31
STA 217+67 @ 50' RT
Remove BREC Pole 51Y35
and Spans
Location 26
STA 207+62 @ 102' RT
Remove BREC Pole 51Y31-LP
and Spans
Location 29
STA 211+53 @ 66' RT
Remove BREC Pole 51Y33
and Spans
SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (325' x 14.5' / 9 = 523.61 SY)
SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2 (205' x 14.5' / 9 = 330.28 SY)
ROCK CHANNEL PROTECTION
CONSTRUCTION LIMITS PHASE 2A & 2B
DITCH EROSION PROTECTION MAT, TYPE B (100' x 11' / 9 = 122.22 SY)
DITCH EROSION PROTECTION MAT, TYPE B (200' x 14.5' / 9 = 322.22 SY)
Wooded Area
POND 3
WETLAND G
Trail
℄ CONSTRUCTION LYNN LANE
Garage & Carport
1 Sty Brick Res. #229
2 Sty Frm Res. #208
SECTION 21
SECTION 22
4:1 (TYP.)
10:1 (TYP.)
CURVE NO. 3
N 74° 08' 47" E
FUTURE PHASE 2B
MATCH LINE STA. 207+00
MATCH LINE STA. 219+00
TAPERS PROVIDED FOR INFORMATION ONLY
A - STA. 209+79.72 BEGIN PAVEMENT TAPER, 44' RT. BEGIN SHOULDER TAPER, 54' RT.
STA. 210+29.72 END PAVEMENT TAPER, 56' RT. END SHOULDER TAPER, 60' RT.
SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (100' x 18' / 9 = 200 SY)
QUANTITIES ARE INCLUDED IN REFERENCE NUMBER 1-R FOR THE REMOVAL OF EXISTING PAVEMENT, REGRADING TO ENSURE A DRAINABLE SURFACE AND SEEDING AND MULCHING OF THE AREA SHOWN.
FOR PROFILE, SEE SHEET 41
FOR LYNN LANE PLAN AND PROFILE, SEE SHEET 249
HORIZONTAL SCALE IN FEET
0 25 50 100
CALCULATED SLP
CHECKED ALB
PLAN - S.R. 7
STA. 207+00 TO STA. 219+00 (NORTH)
LAW-7-2.17
39/297

U:\17360871\LAW\75923\roadway\sheets\75923GP009-2A.dgn 3/23/2023 11:05:59 AM SLParker

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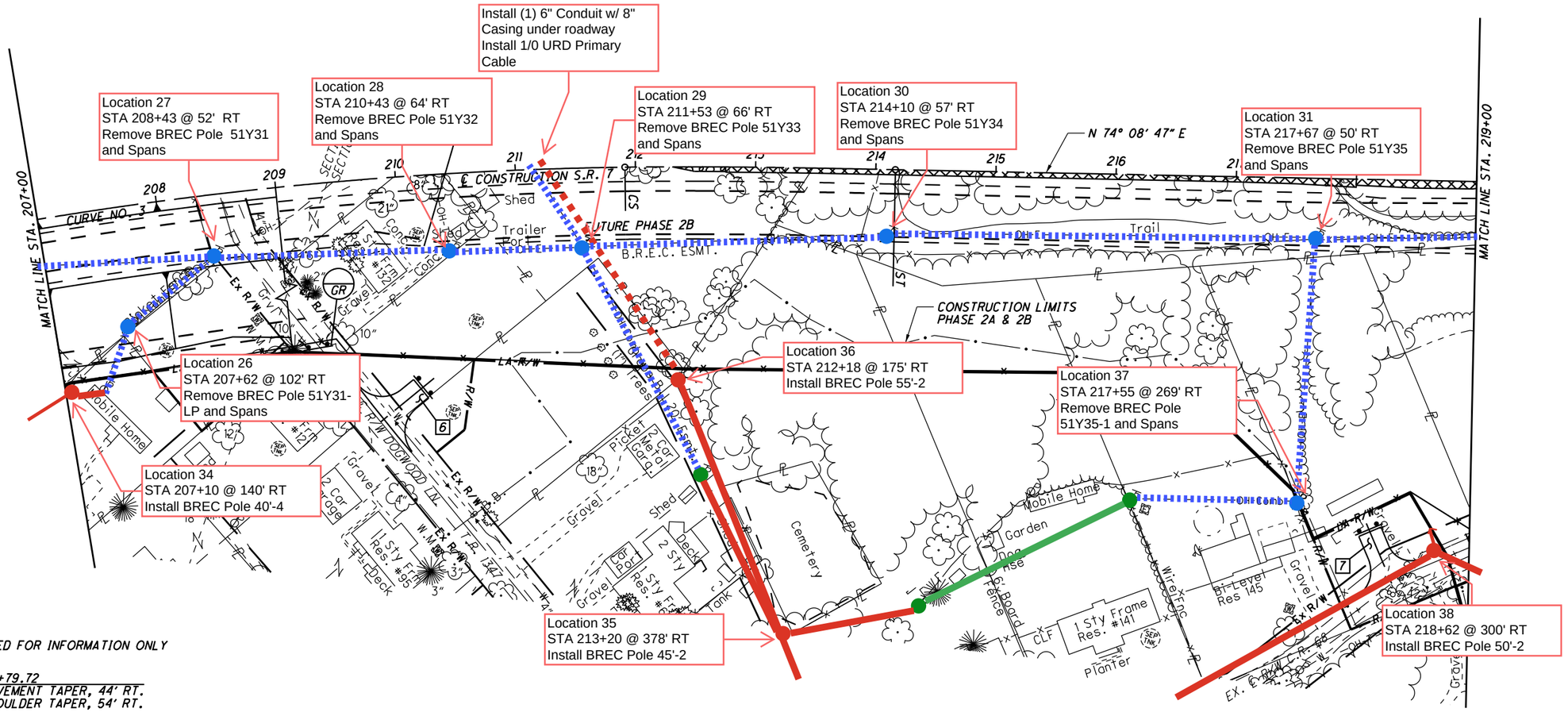
DWN BY	P. McALLISTER	SCALE	AS SHOWN
DWN FOR	BUCKEYE REC	DATE	07/11/2024

PAGE 5

CURVE DATA
S.R. 7
CURVE NO. 3

. 205+33.31
30' 45" (RT)
Dc = 1° 45' 00"
R = 3,274.04'
T = 683.24'
L = 1,347.14'
E = 70.53'
TS STA. 196+19.13
SC STA. 198+44.13

Bs = 1° 58' 07"
Ls = 225.00'
Ts = 914.18'
LT = 150.01'
ST = 75.01'
e_{max} = 4.60%
CS STA. 211+91.27
ST STA. 214+16.27



TAPERS PROVIDED FOR INFORMATION ONLY

(A) -
STA. 209+79.72
BEGIN PAVEMENT TAPER, 44' RT.
BEGIN SHOULDER TAPER, 54' RT.

STA. 210+29.72
END PAVEMENT TAPER, 56' RT.
END SHOULDER TAPER, 60' RT.

FOR PROFILE, SEE SHEET 41
FOR DRIVE DETAILS, SEE SHEETS 272-273

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED SLP
CHECKED ALB

PLAN - S.R. 7
STA. 207+00 TO STA. 219+00 (SOUTH)

LAW-7-2.17

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DWN BY	P. McALLISTER	SCALE	AS SHOWN
DWN FOR	BUCKEYE REC	DATE	07/11/2024

PAGE 6

LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 21 & 22, T-1-N, R-16-W

FOR LOCATION AND TYPE OF LA-R/W FENCE SEE THE TABLE IN THE ROADWAY PLAN

Location 27
STA 208+43 @ 52' RT
Remove BREC Pole 51Y31
and Spans

Location 28
STA 210+43 @ 64' RT
Remove BREC Pole 51Y32
and Spans

Location 29
STA 211+53 @ 66' RT
Remove BREC Pole 51Y33
and Spans

Location 30
STA 214+10 @ 57' RT
Remove BREC Pole 51Y34
and Spans

Location 31
STA 217+67 @ 50' RT
Remove BREC Pole 51Y35
and Spans

Location 26
STA 207+62 @ 102' RT
Remove BREC Pole 51Y31-LP
and Span

Location 34
STA 207+10 @ 140' RT
Install BREC Pole 40'-2

Location 36
STA 212+18 @ 175' RT
Install BREC Pole 55'-2

Location 37
STA 217+55 @ 269' RT
Remove BREC Pole 51Y35-1
and Spans

Location 38
STA 218+62 @ 300' RT
Install BREC Pole 55'-2

Location 35
STA 213+20 @ 378' RT
Install BREC Pole 45'-4

Location 39
STA 216+79 @ 412' RT
Install BREC Pole 50'-2

MATCH LINE STA. 206+80

MATCH LINE STA. 220+00

SHAFERTOWN RD
C.R. 68

EATON RD
C.R. 32

T.R. 1347

23-083-0900.002

B.R.E.C. ESMT.
DB 555 PG 56

B.R.E.C. ESMT.
DB 439 PG 50

WORK LIMITS

L R/W & CONST. S.R. 7

N 74° 08' 47" E

4" TYPE A

(68) WALTER L. PLUMLEY
(69) WALTER L. & BRENDA H. PLUMLEY
(73) STATE OF OHIO
(74) MARY R. SMITH
(75) DONNA M. ADKINS
(76) KAREN EVANS
(78) NANCY MCKENZIE
(79) STATE OF OHIO
(81) RAYMOND R. & ALMA J. MCHONE
(82) STATE OF OHIO
(87) JAMES A. MONTGOMERY
(88) JAMES G. SMITH
(89) FRANCIS JAMES BUDD & BRANDY RENAY BUDD
(90) BILL A. BROWN
(92) JOHNNY E. & JANIE E. SMITH
(93) JAMES H. & ROSA SMITH
(94) CHARLES W. & MAZIE L. RULEN
(96) JASPER & DELLA M. RIGNEY

(LF) DESIGNATES LEACH FIELD

CURVE DATA
S.R. 7
CURVE NO. 3

P.I. STA. 205+33.31
Δ = 27° 30' 45" (RT)
Dc = 1° 45' 00"
R = 3,274.04'
T = 683.24'
L = 1,347.14'
E = 70.53'
TS STA. 196+19.13
SC STA. 198+44.13

θs = 1° 58' 07"
Ls = 225.00'
Ts = 914.18'
LT = 150.01'
ST = 75.01'
CS STA. 211+91.27
ST STA. 214+16.27

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 25 50 100

PID NO. 75923

R/W DESIGNER TB
R/W REVIEWER SER

RIGHT OF WAY TOPO SHEET
STA. 206+80 TO STA. 220+00 (SOUTH)

LAW-7-2.17

52T/82

U:\173608714\LAW\75923\row\sheets\75923RTO 11.dgn 12/9/2014 11:17:18 AM slparker

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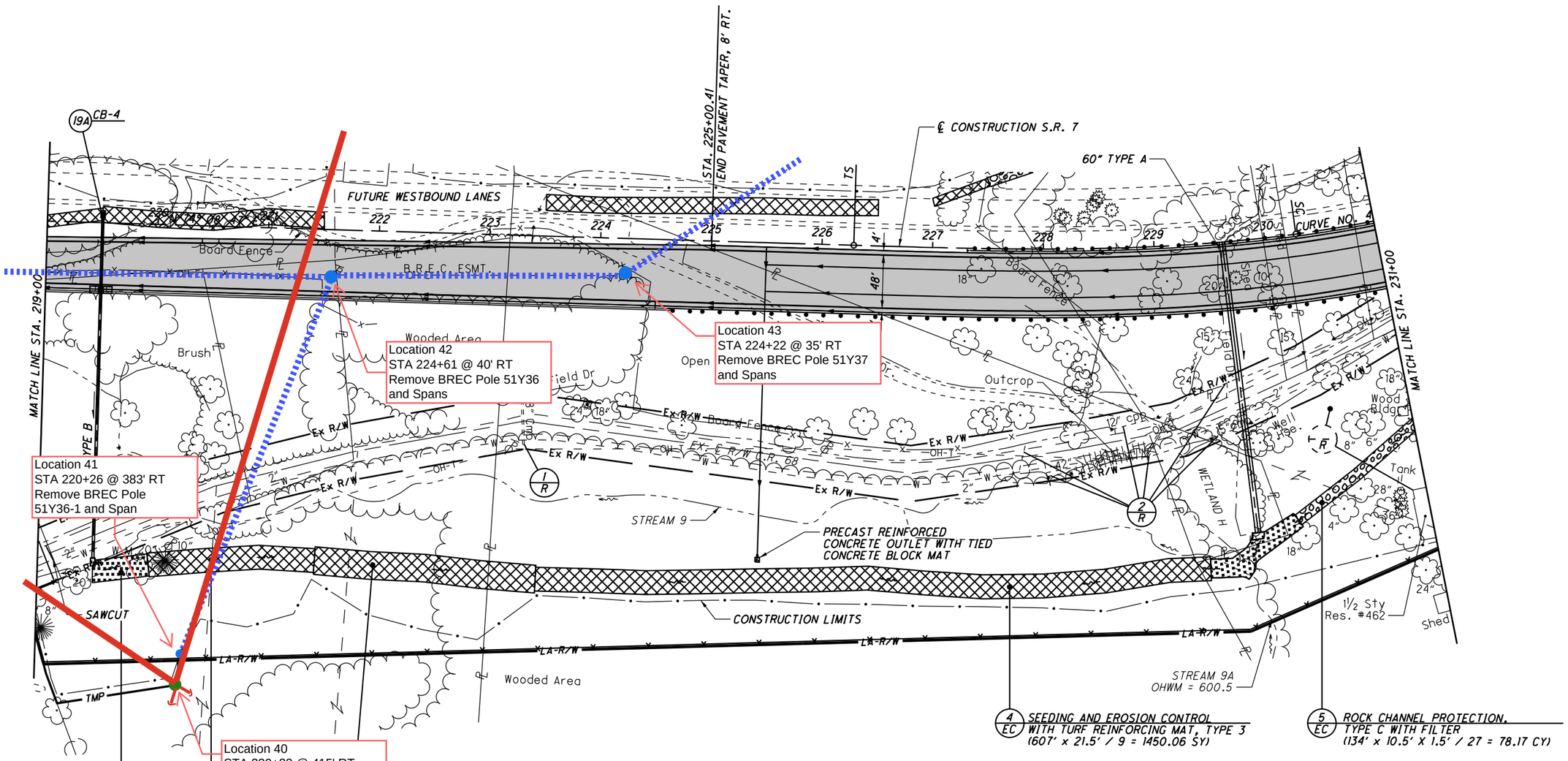
DWN BY	P. McALLISTER	SCALE	AS SHOWN
DWN FOR	BUCKEYE REC	DATE	07/11/2024

PAGE 7

CURVE DATA
S.R. 7
CURVE NO. 4

P.I. STA. 232+01.52
Δ = 34° 12′ 59″ (LT)
Dc = 4° 45′ 00″
R = 1,206.23′
T = 161.12′
L = 320.35′
E = 10.71′
TS STA. 226+28.73
SC STA. 230+28.73

θs = 9° 30′ 00″
Ls = 400.00′
Ts = 572.79′
LT = 267.05′
ST = 133.68′
e_{max} = 8.00%
CS STA. 233+49.08
ST STA. 237+49.08



ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (50′ x 20′ / 9 = 111.11 SY) — 1 EC

SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (200′ x 25′ / 9 = 555.56 SY) — EC

SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3 (151′ x 21.5′ / 9 = 360.72 SY) — 2 EC

4 EC SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3 (607′ x 21.5′ / 9 = 1450.06 SY)

5 EC ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (134′ x 10.5′ X 1.5′ / 27 = 78.17 CY)

- PROPOSED PAVEMENT

FOR QUANTITIES, SEE SHEETS 71-81
FOR PROFILE, SEE SHEET 116
FOR STORM SEWER PROFILE, SEE SHEET 231
FOR CULVERT DETAILS, SEE SHEETS 658
FOR UNDERDRAIN TABLES, SEE SHEETS 674-678
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A
FOR FENCE TABLES, SEE SHEETS 1039-1041

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED SLP
CHECKED ALB

PLAN - S.R. 7
STA. 219+00 TO STA. 231+00 (SOUTH)

LAW-7-2.17

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Marietta, OH 45750
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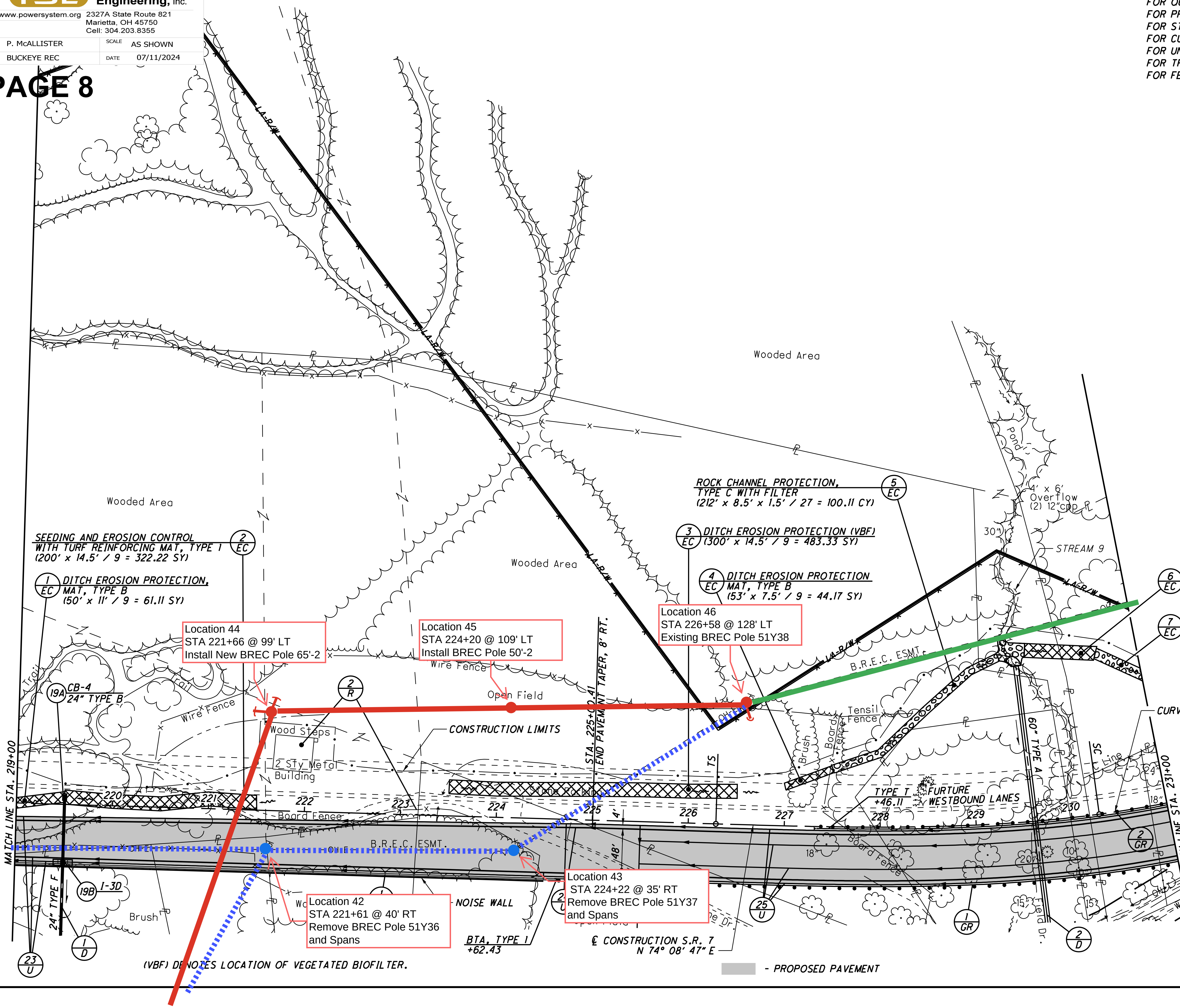
DWN BY	P. McALLISTER	SCALE	AS SHOWN
DWN FOR	BUCKEYE REC	DATE	07/11/2024

PAGE 8

FOR QUANTITIES, SEE SHEETS 71-81
FOR PROFILE, SEE SHEET 116
FOR STORM SEWER PROFILE, SEE SHEET 231
FOR CULVERT DETAILS, SEE SHEETS 658
FOR UNDERDRAIN TABLES, SEE SHEETS 674-678
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A
FOR FENCE TABLES, SEE SHEETS 1039-1041



CURVE DATA
S.R. 7
CURVE NO. 4

P.I. STA. 232+01.52	θs = 9° 30' 00"
Δ = 34° 12' 59" (LT)	Ls = 400.00'
Dc = 4° 45' 00"	Ts = 572.79'
R = 1,206.23'	LT = 267.05'
T = 161.12'	ST = 133.68'
L = 320.35'	e_{max} = 8.00%
E = 10.71'	CS STA. 233+49.08
TS STA. 226+28.73	ST STA. 237+49.08
SC STA. 230+28.73	

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED SLP
CHECKED ALB

PLAN - S.R. 7
STA. 219+00 TO STA. 231+00 (NORTH)

LAW-7-2.17

114 / 1247

U:\173608714\LAW\75923\roadway\sheets\75923GP010-2A.dgn 5/21/2024 4:50:11 PM SLParker

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Marietta, OH 45750
Cell: 304.203.8355

DWN BY	P. McALLISTER	SCALE	AS SHOWN
DWN FOR	BUCKEYE REC	DATE	07/11/2024

PAGE 9

R = 1,206.23'
L = 320.35'
E = 10.71'
TS STA. 226+28.73
SC STA. 230+28.73

LT = 267.05'
ST = 133.68'
e_{max} = 8.00%
CS STA. 233+49.08
ST STA. 237+49.08

FOR QUANTITIES, SEE SHEETS 71-81
FOR PROFILE, SEE SHEET 118
FOR UNDERDRAIN TABLES, SEE SHEETS 674-678
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A
FOR FENCE TABLES, SEE SHEETS 1039-1041

ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (53' x 6' x 1.5' / 27 = 17.67 CY) — 5 EC

SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (196' x 11' / 9 = 239.56 SY) — 4 EC

3 EC ROCK CHANNEL PROTECTION TYPE C WITH FILTER (57' x 11' x 1.5' / 27 = 34.83 CY)

9 EC SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2 (355' x 14.5' / 9 = 571.94 SY)

Location 47
STA 231+38 @ 215' LT
Existing BREC Pole 51Y39

Location 48
STA 235+10 @ 173' LT
Existing BREC Pole 51Y40

Location 49
STA 236+78 @ 292' LT
Existing BREC Pole 51Y41

Location 50
STA 238+10 @ 380' LT
Existing BREC Pole 51Y42

Location 51
STA 231+98 @ 97' LT
Remove BREC Pole and Span

Location 52
STA 232+12 @ 55' LT
Remove BREC Pole and Span

Location 53
STA 231+42 @ 155' RT
Remove BREC Pole
51Y39-1 and Spans

Location 54
STA 232+56 162' RT
Remove BREC Pole
51Y39-2 and Spans

Location 55
STA 231+75 @ 238' RT
Remove BREC Pole and Span

Location 56
STA 233+42 @ 218' RT
Remove BREC Pole
57Y39-3 and Spans

Location 57
STA 234+27 @ 185' RT
Remove BREC Pole
51Y39-4 and Spans

Location 58
STA 235+36 @ 115' RT
Remove BREC Pole
51Y39-4ZB

Location 59
STA 235+36 @ 10' LT
Remove BREC Pole
51Y40-1 and Span

CURVE NO. 4

MATCH LINE STA. 231+00

MATCH LINE STA. 243+00

FUTURE WESTBOUND LANES

℄ CONSTRUCTION S.R. 7

N 39° 55' 47" E

STREAM 10A OHWM = 636.7

STREAM 10 OHWM = 637.4

EX. ℄ = 646.00

CONSTRUCTION LIMITS

SEE DITCH TYPICAL SECTION THIS SHEET

ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (243' x 10.5' x 1.5' /27 = 141.75 CY) — 1 EC

DITCH EROSION PROTECTION MAT, TYPE B (57' x 11' / 9 = 69.67 SY) — 2 EC

DITCH EROSION PROTECTION MAT, TYPE B (153' x 11' / 9 = 187 SY) — 6 EC

ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (152' x 12' x 1.5' / 27 = 101.33 CY) — 7 EC

(A) - STA. 235+13.20
BEGIN PAVEMENT TAPER, 56' RT.

(B) - STA. 241+73.20
BEGIN SHOULDER TAPER, 49' RT.

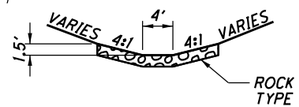
(C) - STA. 242+33.20
END PAVEMENT TAPER, 44' RT.
END SHOULDER TAPER, 54' RT.

(D) - PRECAST REINFORCED OUTLET WITH TIED CONCRETE BLOCK MAT

(LF) DESIGNATES LEACH FIELD

- PROPOSED PAVEMENT

DITCH TYPICAL SECTION



CONTRACTOR TO FILL AND REGRADE THE EXISTING CHANNEL TO TIE INTO THE PROPOSED ROADSIDE DITCH USING THE TYPICAL SECTION ABOVE. THE FOLLOWING QUANTITIES ARE INCLUDED IN REFERENCE NUMBER 8-EC TO COMPLETE THIS WORK.

ITEM 203 - EXCAVATION	5 CY
ITEM 203 - EMBANKMENT	1932 CY
ITEM 601 - ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	203 CY
ITEM 659 - SEEDING AND MULCHING	1100 SY

HORIZONTAL SCALE IN FEET: 0, 25, 50, 100

CALCULATED SLP CHECKED ALB

PLAN - S.R. 7
STA. 231+00 TO STA. 243+00

LAW-7-2.17

117
1247

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Power System Engineering, Inc.
www.powersystem.org
2327A State Route 821
Marietta, OH 45750
Cell: 304.203.8355

DWN BY	P. McALLISTER	SCALE	AS SHOWN
DWN FOR	BUCKEYE REC	DATE	07/11/2024

PAGE 10

		CURVE DATA S.R. 243 CURVE NO. 3
		P.I. Sta. 12+94.82
		Δ = 6° 05′ 09″ (RT)
Dc = 19° 05′ 55″	Dc = 8° 48′ 53″	Dc = 16° 22′ 13″
R = 300.00′	R = 650.00′	R = 350.00′
T = 18.00′	T = 77.56′	T = 18.61′
L = 35.95′	L = 154.40′	L = 37.18′
E = 0.54′	E = 4.61′	E = 0.49′
e_{max} = 1.60%	e_{max} = 1.60%	e_{max} = 1.60%
PC Sta. 10+85.87	PRC Sta. 11+21.82	PCC Sta. 12+76.21
PRC Sta. 11+21.82	PCC Sta. 12+76.21	CS Sta. 13+13.39

CURVE DATA
S.R. 243
CURVE NO. 4

P.I. Sta. 15+51.11	θs = 00° 45′ 00″
Δ = 5° 37′ 36″ (LT)	Ls = 100.00′
Dc = 1° 30′ 00″	Ts = 237.72′
R = 3,819.72′	LT = 66.67′
T = 137.62′	ST = 33.33′
L = 275.13′	e_{max} = 3.50%
E = 2.48′	CS Sta. 16+88.52
TS STA. 13+13.39	ST Sta. 17+88.52
SC STA. 14+13.39	

FOR QUANTITIES, SEE SHEETS 71-81
FOR S.R. 7 PLAN & PROFILE, SEE SHEETS 119-120
FOR PROFILE, SEE SHEET 491
FOR INTERSECTION DETAILS, SEE SHEETS 625
FOR DRIVE DETAILS, SEE SHEETS 636-638
FOR STORM SEWER PROFILE, SEE SHEET 647
FOR DETENTION BASIN DETAILS, SEE SHEETS 667 & 672
FOR UNDERDRAIN TABLES, SEE SHEETS 674-678
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A
FOR FENCE TABLES, SEE SHEETS 1039-1041

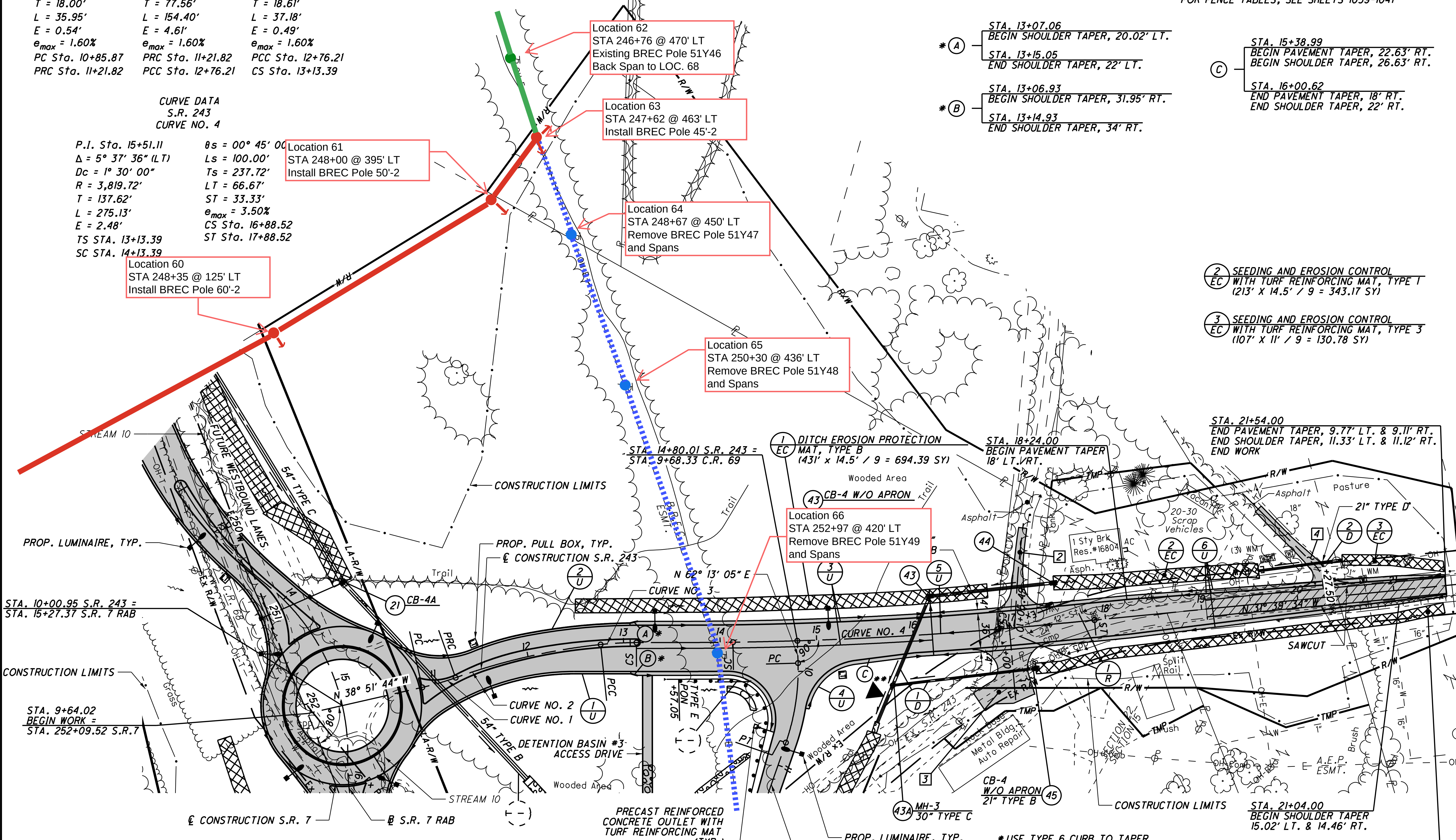
*(A) STA. 13+07.06 BEGIN SHOULDER TAPER, 20.02′ LT. — STA. 13+15.05 END SHOULDER TAPER, 22′ LT.

*(B) STA. 13+06.93 BEGIN SHOULDER TAPER, 31.95′ RT. — STA. 13+14.93 END SHOULDER TAPER, 34′ RT.

(C) STA. 15+38.99 BEGIN PAVEMENT TAPER, 22.63′ RT. BEGIN SHOULDER TAPER, 26.63′ RT. — STA. 16+00.62 END PAVEMENT TAPER, 18′ RT. END SHOULDER TAPER, 22′ RT.

(2/EC) SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (213′ X 14.5′ / 9 = 343.17 SY)

(3/EC) SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3 (107′ X 11′ / 9 = 130.78 SY)



- PROPOSED PAVEMENT
- 3-1/4″ MILL/FILL

* USE TYPE 6 CURB TO TAPER SHOULDER. TAPER CURB HEIGHT FROM 0″ TO 6″ IN 10′.

** LIGHTING CONTROL CENTER

SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2 (4/EC) (431′ x 11′ / 9 = 526.78 SY)

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED SLP | CHECKED ALB

PLAN S.R. 243

LAW-7-2.17

PSE Power System Engineering, Inc.
www.powersystem.org 2327A State Route 821
Marietta, OH 45750
Cell: 304.203.8355

DWN BY	P. McALLISTER	SCALE	AS SHOWN
DWN FOR	BUCKEYE REC	DATE	07/11/2024

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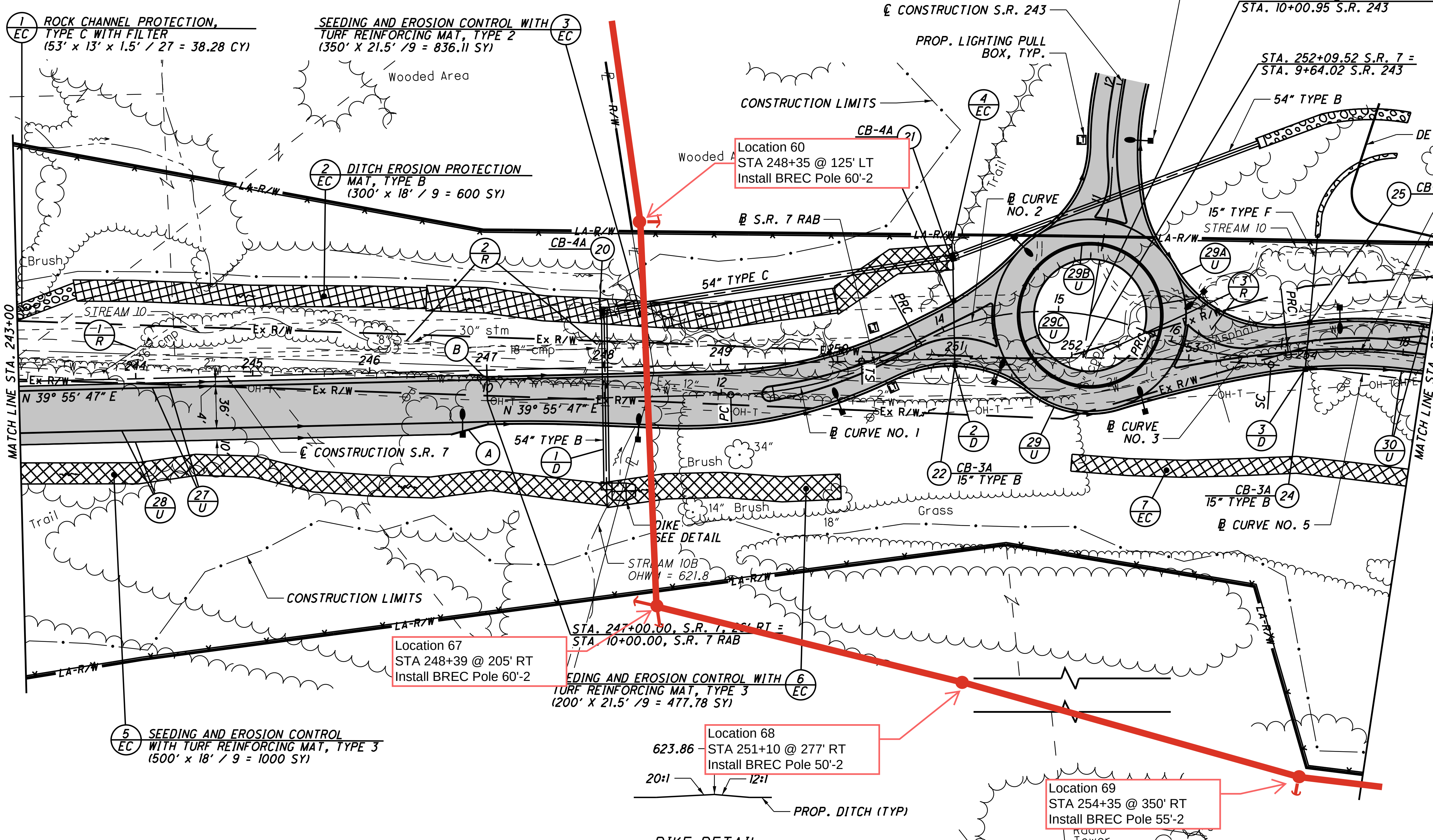
		CURVE DATA S.R. 7 RAB ℄ CURVE NO. 1	CURVE DATA S.R. 7 RAB ℄ CURVE NO. 2	CURVE DATA S.R. 7 RAB ℄ CURVE NO. 3	CURVE DATA S.R. 7 RAB ℄ CURVE NO. 4
		P.I. Sta. 12+93.43	P.I. Sta. 14+87.13	P.I. Sta. 16+43.83	P.I. Sta. 18+27.99
Δ = 58° 46′ 06″ (RT)	Ls = 350.00′	Δ = 27° 26′ 21″ (LT)	Δ = 52° 43′ 55″ (RT)	Δ = 30° 24′ 24″ (LT)	Δ = 31° 15′ 43″ (RT)
D = …00″	Ts = 1,169.30′	Dc = 16° 22′ 13″	Dc = 25° 27′ 53″	Dc = 25° 27′ 53″	Dc = 12° 43′ 57″
R = 1,…62.55′	LT = 233.45′	R = 350.00′	R = 225.00′	R = 225.00′	R = 450.00′
T = 773.76′	ST = 116.78′	T = 85.45′	T = 111.52′	T = 61.15′	T = 125.90′
L = 1,458.26′	e_{max} = 7.10%	L = 167.62′	L = 207.08′	L = 119.41′	L = 245.53′
E = 162.33′	CS STA. 268+28.71	E = 10.28′	E = 26.12′	E = 8.16′	E = 17.28′
TS STA. 250+20.45	ST STA. 271+78.71	PC Sta. 12+07.99	PRC Sta. 13+75.60	PRC Sta. 15+82.68	PRC Sta. 17+02.09
SC STA. 253+70.45		PRC Sta. 13+75.60	PRC Sta. 15+82.68	PRC Sta. 17+02.09	PT Sta. 19+47.62



DIKE DETAIL

EMBANKMENT INCLUDED IN THE COST OF ITEM 611 - 54″ CONDUIT, TYPE B

Ⓐ - STA. 246+68.00 BEGIN SHOULDER TAPER, 54′ RT.
STA. 247+00.00 END SHOULDER TAPER, 58′ RT.

Ⓑ - STA. 246+92.00 BEGIN SHOULDER TAPER, 4′ LT.
STA. 247+00.00 END SHOULDER TAPER, 6′ LT.

4 EC DITCH EROSION PROTECTION MAT, TYPE B (100′ x 21.5′ /9 = 238.89 SY)

7 EC SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (288′ x 14.5′ / 9 = 464 SY)

- PROPOSED PAVEMENT

* USE TYPE 6 CURB TO TAPER SHOULDER. TAPER CURB HEIGHT FROM 0″ TO 6″ IN 10′.

FOR QUANTITIES, SEE SHEETS 71-81
FOR PROFILE, SEE SHEETS 120-121
FOR S.R. 243 PLAN AND PROFILE, SEE SHEETS 490-491
FOR PAVEMENT DETAILS, SEE SHEETS 607-609
FOR STORM SEWER PROFILES, SEE SHEETS 257, 259 & 642
FOR UNDERDRAIN TABLES, SEE SHEETS 674-678
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A
FOR FENCE TABLES, SEE SHEETS 1039-1041

0 25 50 100 HORIZONTAL SCALE IN FEET

CALCULATED SLP CHECKED ALB

PLAN - S.R. 7
STA. 243+00 TO STA. 255+00 (NORTH)

LAW-7-2.17

119 / 1247

U:\173608714\LAW\75923\roodway\sheets\75923GP012-2A.dgn 5/21/2024 4:50:20 PM SLParker

PSE Power System Engineering, Inc.
www.powersystem.org 2327A State Route 821
Marietta, OH 45750
Cell: 304.203.8355

DWN BY	P. McALLISTER	SCALE	AS SHOWN
DWN FOR	BUCKEYE REC	DATE	07/11/2024

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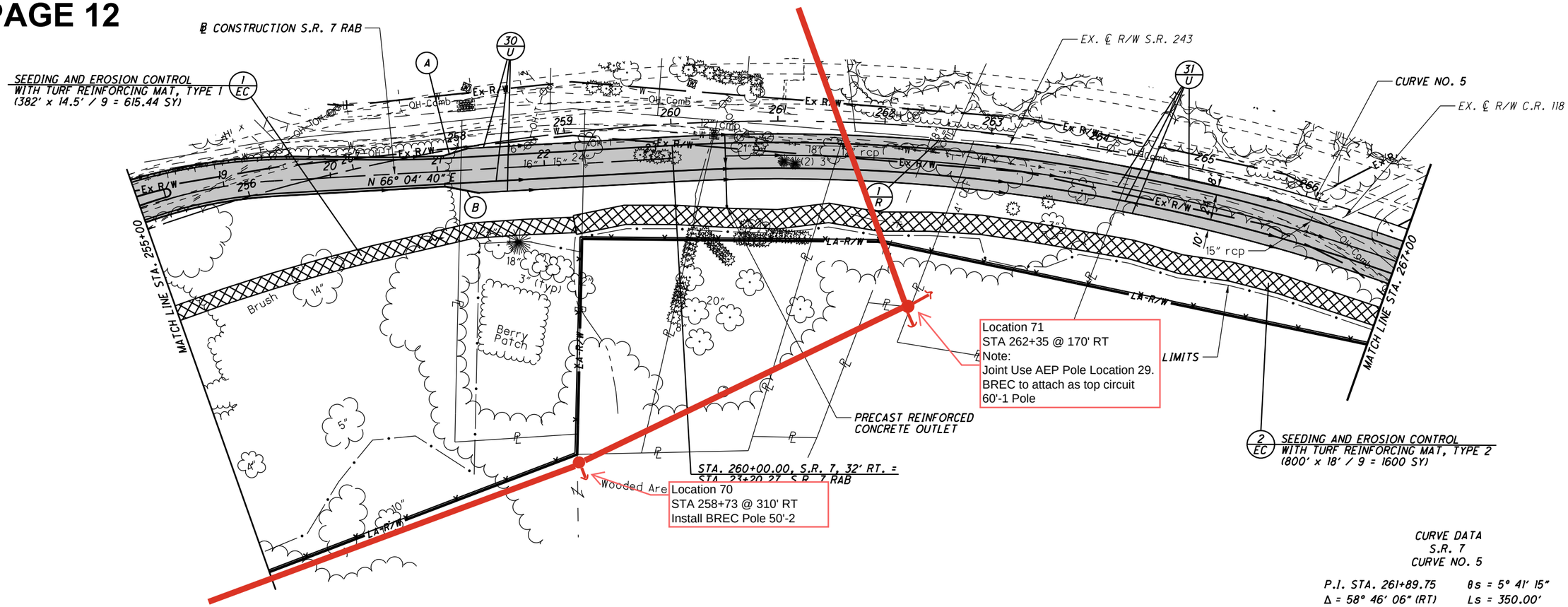

* (A) - STA. 257+84.79
BEGIN SHOULDER TAPER, 4.87' RT.
STA. 258+09.36
END SHOULDER TAPER, 1.71' RT.

* (B) - STA. 257+81.31
BEGIN SHOULDER TAPER, 32.70' RT.
STA. 258+12.87
END SHOULDER TAPER, 44.33' RT.

* USE TYPE 6 CURB TO TAPER SHOULDER. TAPER CURB HEIGHT FROM 0" TO 6" IN 10'.

CURVE DATA
S.R. 7
CURVE NO. 5

P.I. STA. 261+89.75	θs = 5° 41' 15"
Δ = 58° 46' 06" (RT)	Ls = 350.00'
Dc = 3° 15' 00"	Ts = 1,169.30'
R = 1,762.95'	LT = 233.45'
T = 773.76'	ST = 116.78'
L = 1,458.26'	e_{max} = 7.10%
E = 162.33'	CS STA. 268+28.71
TS STA. 250+20.45	ST STA. 271+78.71
SC STA. 253+70.45	

- PROPOSED PAVEMENT

FOR QUANTITIES, SEE SHEETS 71-81
FOR PROFILE, SEE SHEET 124
FOR PAVEMENT DETAILS, SEE SHEETS 609
FOR UNDERDRAIN TABLES, SEE SHEETS 674-678
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A
FOR FENCE TABLES, SEE SHEETS 1039-1041

HORIZONTAL SCALE IN FEET
0 25 50 100
CALCULATED SLP CHECKED ALB

PLAN - S.R. 7
STA. 255+00 TO STA. 267+00 (SOUTH)

LAW-7-2.17

123
1247

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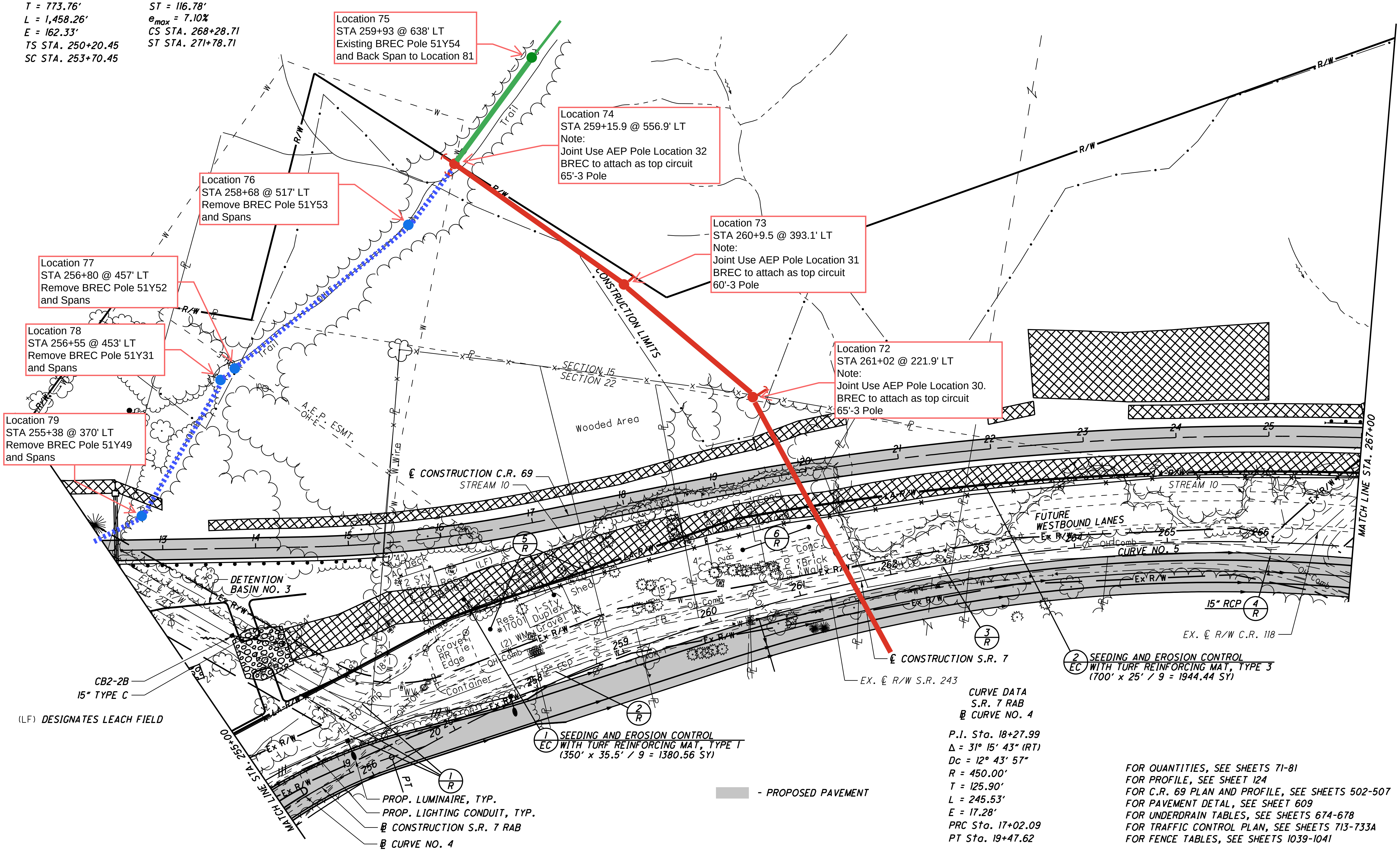
www.powersystem.org
2327A State Route 821
Marietta, OH 45750
Cell: 304.203.8355

DWN BY	P. McALLISTER	SCALE	AS SHOWN
DWN FOR	BUCKEYE REC	DATE	07/11/2024

Δ = 58° 46' 06" (RT)
R = 1,162.95'
T = 773.76'
L = 1,458.26'
E = 162.33'
TS STA. 250+20.45
SC STA. 253+70.45

Ls = 350.00'
Ts = 1,169.30'
LT = 233.45'
ST = 116.78'
e_{max} = 7.10%
CS STA. 268+28.71
ST STA. 271+78.71



CURVE DATA
S.R. 7 RAB
℄ CURVE NO. 4

P.I. Sta. 18+27.99
Δ = 31° 15' 43" (RT)
Dc = 12° 43' 57"
R = 450.00'
T = 125.90'
L = 245.53'
E = 17.28'
PRC Sta. 17+02.09
PT Sta. 19+47.62

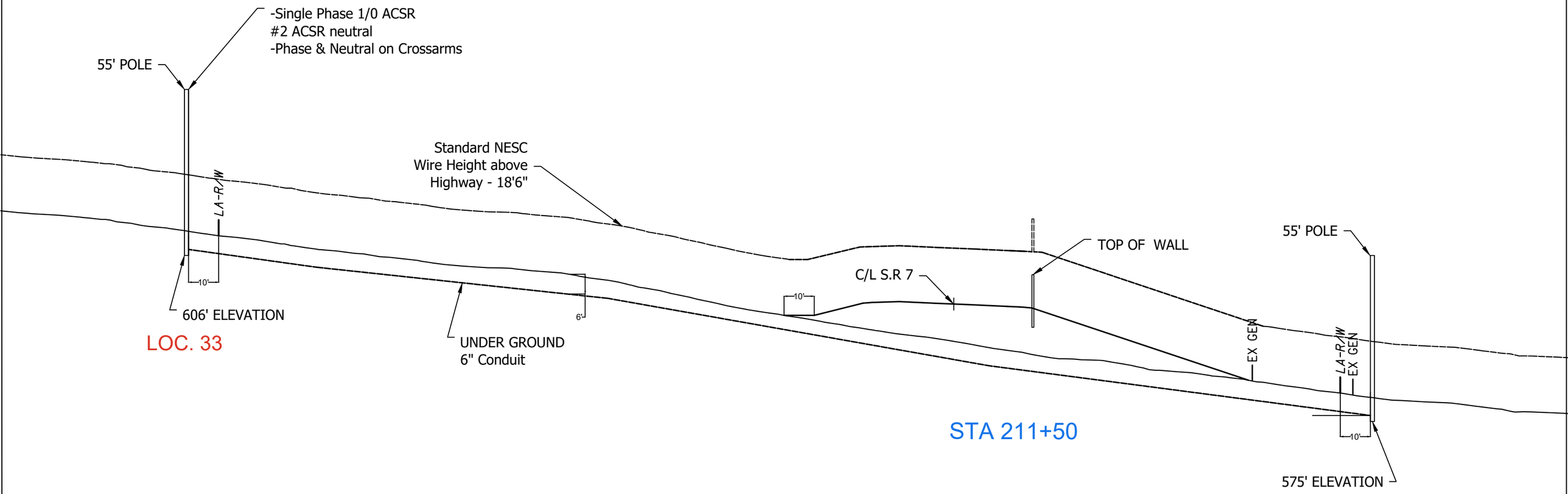
FOR QUANTITIES, SEE SHEETS 71-81
FOR PROFILE, SEE SHEET 124
FOR C.R. 69 PLAN AND PROFILE, SEE SHEETS 502-507
FOR PAVEMENT DETAL, SEE SHEET 609
FOR UNDERDRAIN TABLES, SEE SHEETS 674-678
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A
FOR FENCE TABLES, SEE SHEETS 1039-1041

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED SLP CHECKED ALB

PLAN - S.R. 7
STA. 255+00 TO STA. 267+00 (NORTH)

LAW-7-2.17



NO.	REVISION AND RECORD OF ISSUE	BY	ENGR.	DATE
-	-	-	-	-

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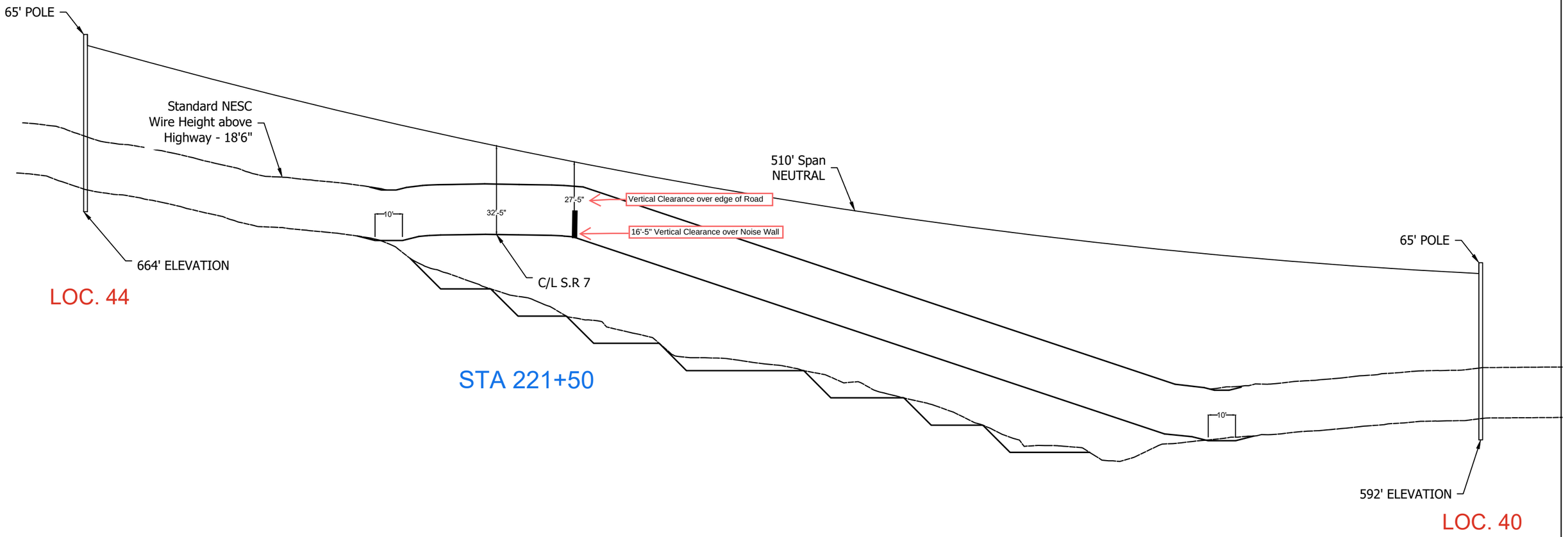
www.powersystem.org
2327-A State Route 821
Marietta, OH 45750
Tel: 740.568.9221

ENGR -
CHK'D/ APP'D -
DWN BY -
DATE -

BREC S.R. 7 ROAD CROSSING
STA 211+50

SCALE NTS
FILE NAME BREC S.R. 7 CROSSING 1
PROJECT NO. OH00623187
DRAWING NO. 400



LOC. 44

STA 221+50

LOC. 40

NO.	REVISION AND RECORD OF ISSUE	BY	ENGR.	DATE
-	-	-	-	-

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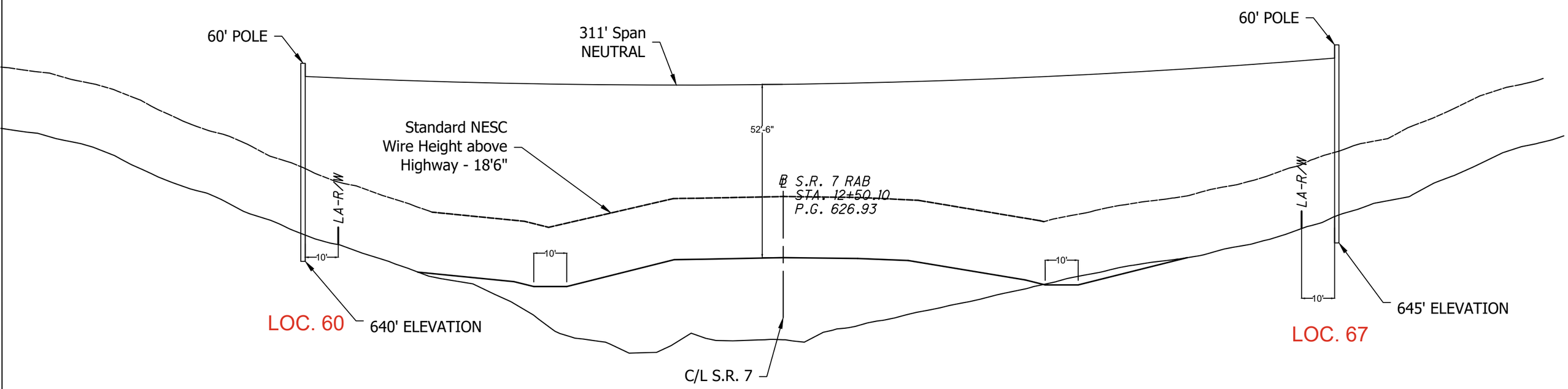
Tel: 740.568.9221

ENGR -
CHK'D/APP'D -
DWN BY -
DATE -

BREC S.R. 7 ROAD CROSSING
STATION 221.5

SCALE NTS
FILE NAME BREC S.R. 7 CROSSING 2
PROJECT NO. OH00623187
DRAWING NO. 400



STA 248+50

NO.	REVISION AND RECORD OF ISSUE	BY	ENGR.	DATE
-	-	-	-	-

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2327-A State Route 821
Marietta, OH 45750
Tel: 740.568.9221

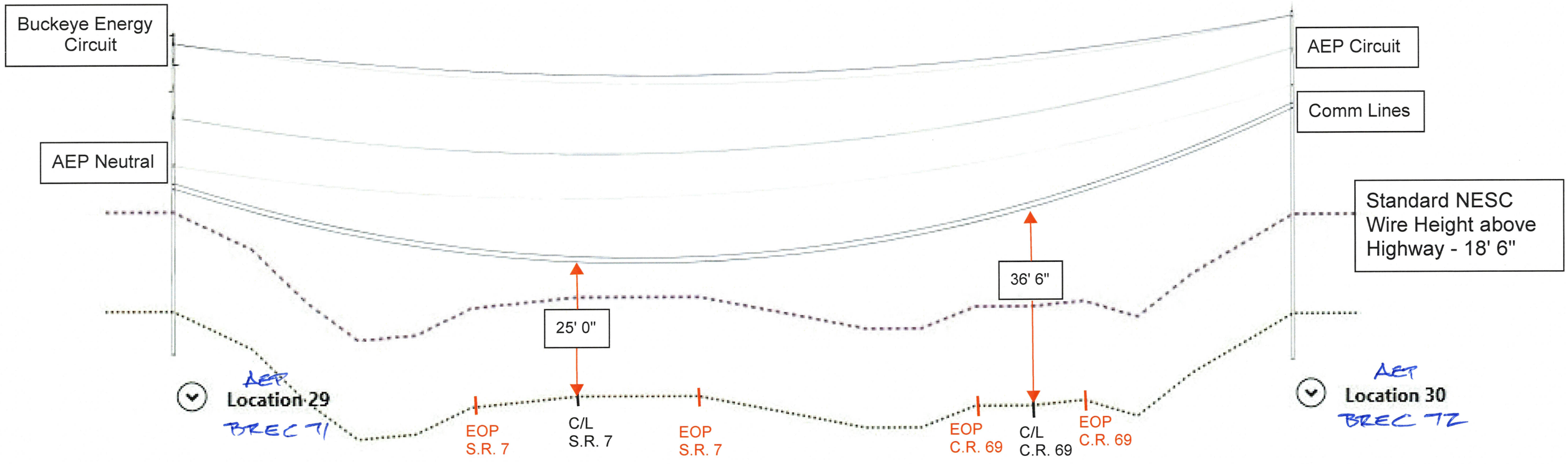
ENGR -
CHK'D/ APP'D -
DWN BY -
DATE -

BREC S.R. 7 ROAD CROSSING
STA 248+50

SCALE NTS
PROJECT NO. OH00623187
DRAWING NO. 400
FILE NAME BREC S.R. 7 CROSSING 3

Vertical Clearance for State Route 7 and County Route 69 for Communication Lines

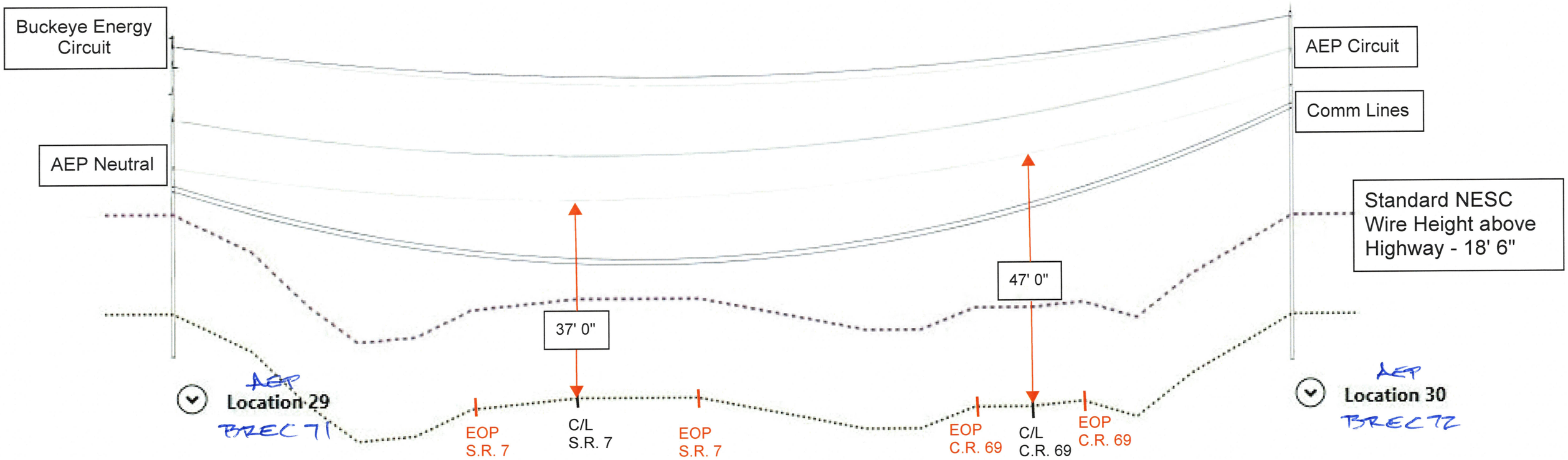
Not to Scale



Note: There are 2 total communication lines on this span. Heights shown are vertical clearance to lowest communication line. All communication lines are spaced 1 foot apart from each other.

Vertical Clearance for State Route 7 and County Route 69 for AEP Circuit

Not to Scale



Note: AEP circuit as bottom circuit pole attachment. One 3 phase circuit with neutral below circuit. Heights shown are for lowest hanging AEP wire. (Buckeye Rural Energy as top circuit)