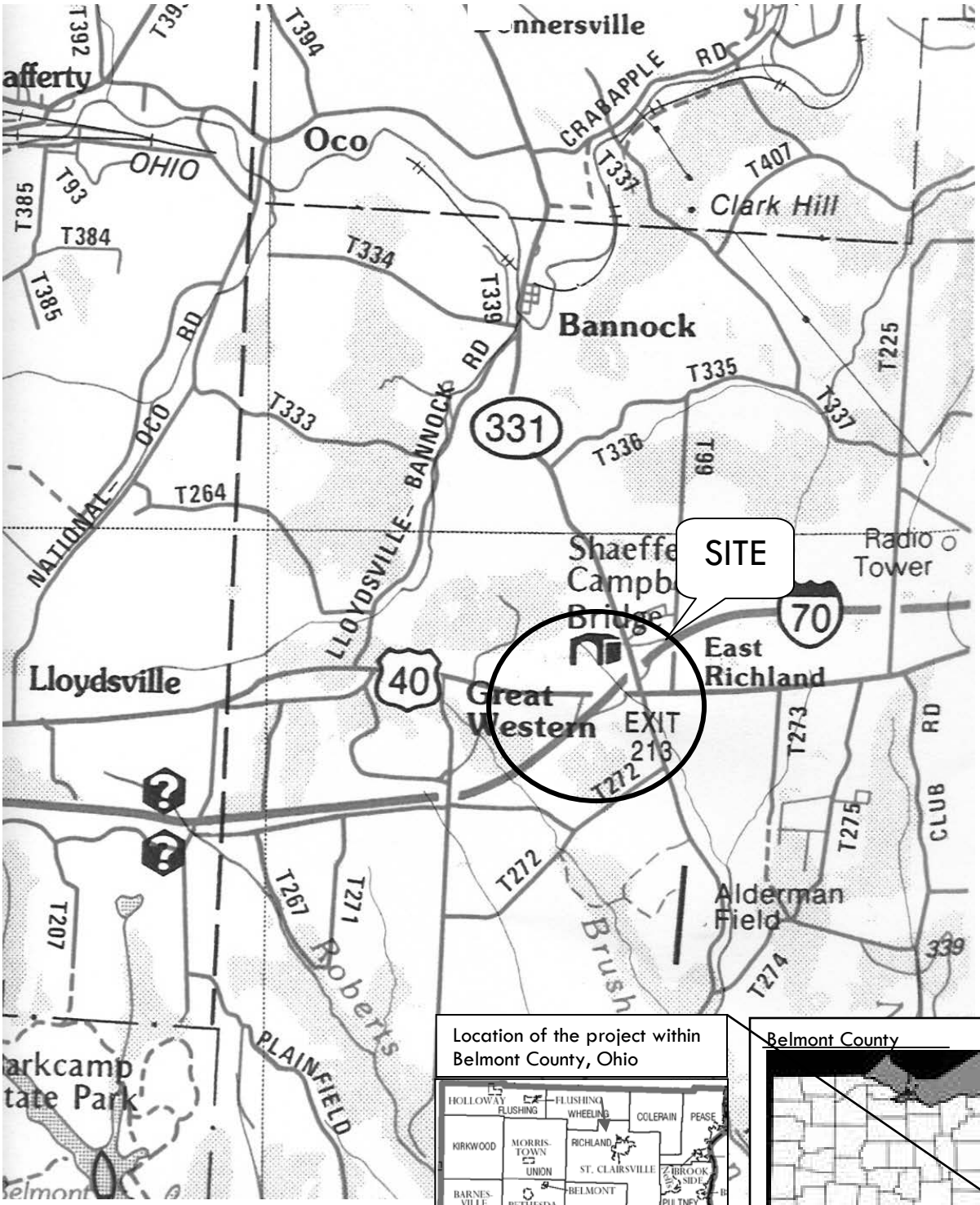
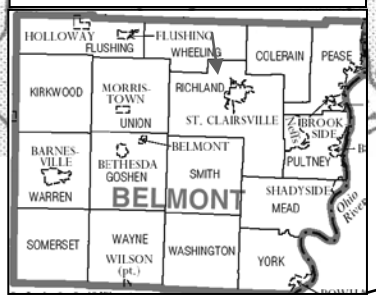
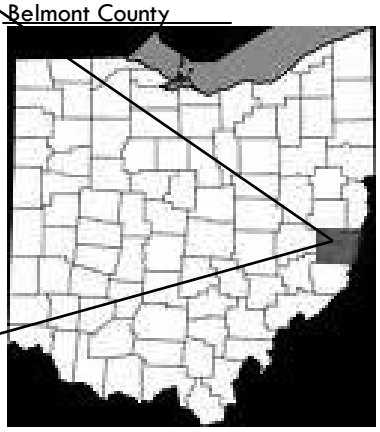


Location of the project within Belmont County, Ohio



Belmont County



LRH-2012-00368-OHR
BEL-70-14.45, PID 80599
Belmont County, Ohio
Location Map
Sheet 1 of 17

RICHLAND TOWNSHIP, BELMONT COUNTY, OHIO
BEL IR 70-14.45 (PID 80599) PCN/401 PERMIT APPLICATION
PROJECT AREA LOCATION MAP
Exhibit 1

T TO SCALE

Source:
- OHIO ATLAS & GAZETTEER (2004)

LRH-2012-00368-OHR
BEL-70-14.45, PID 80599
Belmont County, Ohio
Plan of Stream 3 and Wetland A, Sheet 2 of 17

Wetland A
- 0.17 Ac. of Impact
- Impacted by Grading/Fill Using Clean Non-Erodible Fill

Stream 3
- 87 LF of Impact
- Impacted by Culvert Extension/Grading

STREAM "3"
WETLAND "A"
WOODED AREA
END WORK STA 61+63.00
TELE BOX
CONST LIMITS
CONCRETE MASONRY COLLAR
PROP MON ASSEMBLY
MATCH LINE STA 58+00 SEE SHEET 126
ASPHALT DRIVE (COMMERCIAL)
BRICK PUMP STATION
EX DITCH
1-STY FRAME
2-STY FRAME
℄ CONST AIRPORT RD
S 16° 15' 11" E
S 22° 30' 18" E
℄ ASPH DRIVE
ASPH
+61.94 18' LT
+84.93 9' LT
+64.93 12' LT
+61.94 18' RT
+29.60 16' RT
+84.93 9' RT
+64.93 12' RT
E=1139.0
E=1137.5
8"FM
12"W
6"W
2"G
SAN
Ex SH
R/W
CB
MH
PC
PT
C3

AIRPORT RD CURVE DATA (C3)
P.I. STA 61+24.93
Δ = 6° 15' 07" (LT)
Dc = 3° 30' 00"
R = 1,637.00'
T = 89.40'
L = 178.63'
E = 2.44'
C = 178.54'

CROSS REFERENCES

SHEET NO.	DESCRIPTION
	ESTIMATED QUANTITIES
335 - 342	DRAINAGE PLAN
410 - 418	ROADSIDE BARRIER & FENCING PLAN
478 - 484	SEEDING & SODDING PLAN
546	℄ PLAT (PROP ℄ MONUMENTS)

PROP PROFILE
EX PROFILE
STA 59+67.06, 17.76' RT
EX. CB, GRATE ELEV 1137.06
EX. 12" CMP S 1134.50
EX. 12" CMP E 1132.27
STA 59+36.98, 39.17' RT
CB-2-2B, GRATE ELEV 1137.00
12" (SE) 1134.50
STA 60+05.63, 28.78' RT
CB-2-3, GRATE ELEV 1136.90
12" (NW) 1134.00
18" (E) 1133.00
12" (SE) 1134.50
STA 60+07.63, 18.66' RT
EX. MH, GRATE ELEV 1137.53
EX. 2" N 1136.35
EX. 6" S 1136.37
STA 60+67.03, 22.10' RT
CB-2-3, GRATE ELEV 1138.50
12" (NW) 1136.00
MATCH EXISTING
STA 60+84.93
ELEV = 1,138.34
STA 62+71.26, 16.92' RT
EX. CB, GRATE ELEV 1134.52
EX. 8" CMP N 1133.10
EX. 12" CMP S 1133.12
-9.20 %
-0.20 %
-0.20 % (INSTANTANEOUS GRADE)
69'-12" TYPE B @ 0.72%
62'-12" TYPE B @ 2.42%
57'-18" TYPE B @ 4.04%
EX 48" STM
EX 2" GAS RT
EX 1" WAT LT
EX 6" WAT R
EX TELE RT
EX 6" WAT
EX. 12" CMP
EX 6" WAT
PVI STA 58+77.33
ELEV = 1,138.75'
200.00' VC
PVT STA 59+77.33 ELEV 1,138.55

1155 1150 1145 1140 1135 1130 1125 1120
1145.20 1143.50 1142.05 1140.85 1139.90 1139.21 1138.76 1138.56 1138.51 1138.46 1138.41 1138.36
1144.74 1141.07 1138.26 1137.51 1137.12 1138.17 1138.31 1137.53 1136.29 1135.08 1134.97
58+00 59+00 60+00 61+00 62+00 63+00

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED
CHECKED

PLAN AND PROFILE - AIRPORT ROAD
STA 58+00 TO STA 63+00

BEL-70-14.45

127
613

Minimal Degradation Alternative

LRH-2012-00368-OHR
BEL-70-14.45, PID 80599
Belmont County, Ohio
Plan of Stream 1, Ditch 1, Wetland C, and Wetland D, Sheet 3 of 17

WETLAND "C"

Wetland C
0.04 of Impact
Impacted by grading/fill using Clean Non-Erodible Fill

Stream 1
- 525 LF of Impact
- Impacted by relocation using Clean Non-Erodible Fill

PAVEMENT PLANING AND RESURFACING
WETLAND

WETLAND "D"

Wetland D
- 0.03 of Impact
- Impacted by grading/fill using clean nonerodible Fill

CONST LIMITS
WOODED AREA
PROPOSED DITCH
STREAM "1"
CONCRETE MASONRY COLLAR
PROP PEDESTRIAN PATH
N 87° 09' 35" E
CURB, TYPE 4C
STA 127+52.56 US 40 = STA 760+17.86 RAMP G
℄ CONST US 40
BEGIN CURB +50.72, 23' RT
BEGIN BARRIER +57.88
4' PAVED GUTTER
PROP LIGHT POLE
DITCH "1"
MATCH LINE STA 127+00 SEE SHEET 129
MATCH LINE STA 132+00 SEE SHEET 131

Ditch 1
- 0.001 (40LF) of Impact
- Impacted by Grading/Fill

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	ESTIMATED QUANTITIES
335 - 342	DRAINAGE PLAN
410 - 418	ROADSIDE BARRIER & FENCING PLAN
478 - 484	SEEDING & SODDING PLAN
309 - 318	INTERSECTION DETAILS
513 - 541	STRUCTURE BEL-70-1428
369 - 409	RETAINING WALL DETAILS

HORIZONTAL SCALE IN FEET
CALCULATED
CHECKED

PLAN AND PROFILE - US 40
STA 127+00 TO STA 132+00

BEL-70-14.45

130
613

EX PROFILE
PROP PROFILE
204'-12" TYPE C @ 9.26%
PVT STA 126+72.60
ELEV = 1,205.60'
500.00' VC
PVT STA 129+22.60
ELEV 1,189.92
-6.27 %
EX TELE LT & RT
EX 3" GAS LT
EX TELE
EX CABLE LT
EX 30" CULVERT
EX 8" WAT LT
EX 12" WAT RT
STA 131+75.00, 22.50' LT
CB-3, GRATE ELEV 1173.47
12" (N) 1169.47

Minimal Degradation Alternative

LRH-2012-00368-OHR
BEL-70-14.45, PID 80599
Belmont County, Ohio
Plan of Stream 1, Wetland B, and Wetland D, Sheet 4 of 17

STREAM "1"
WETLAND "D"
CONST LIMITS
IR 70 (WB)
WOODED AREA
765
3"G
PROP WALL 5
+43.00
40.13 LT
END CURB
+10.87
+19.88
28.13' LT
CURB, TYPE 6
PROP PEDESTRIAN PATH
764
STA 133+04.08 US 40 =
STA 763+85.26 IR 70
133
134
STRUCTURE NO.
BEL-70-1428L
+41.02
21.00' RT
4" PAVED GUTTER
MATCH LINE STA 132+00 SEE SHEET 130
763
STRUCTURE NO.
BEL-70-1428R
IR 70 (EB)
+47.89
21.30' LT
+64.46
28.13' LT
4" PAVED GUTTER
PROP LIGHT POLE
+50.00
40.13 LT
STREAM "3"
WETLAND "B"
PAVEMENT PLANING
AND RESURFACING
WETLAND
Ex L/A-R/W
Ex R/W
CURB, TYPE 6
27
72" R
STA 135+79.07 US 40 =
STA 766+24.93 RAMP H
135
136
N 87° 09' 35" E ℄ CONST US 40
+98.17
18' RT
+28.53
18' RT
+30.99
23' RT
BEGIN CURB
CURB, TYPE 6
MATCH LINE STA 137+00 SEE SHEET 132
PROP DITCH
CB(TBR)
EX PAVED GUTTER
58
59
24"
21" B
24" C
PROP LIGHT POLE
766
N 17° 09' 35" E
765 ℄ RAMP H
CONST LIMITS
Ex L/A-R/W
18'G

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	ESTIMATED QUANTITIES
335 - 342	DRAINAGE PLAN
410 - 418	ROADSIDE BARRIER & FENCING PLAN
478 - 484	SEEDING & SODDING PLAN
309 - 318	INTERSECTION DETAILS
513 - 541	STRUCTURE BEL-70-1428
369 - 409	RETAINING WALL DETAILS

Stream 1
-525 LF of Impact
-Impacted by relocation using clean non-erodible Fill

Wetland D
-0.03 of Impact
-Impacted by grading/fill using clean non-erodible Fill

Wetland B
-0.10 of Impact
-Impacted by Grading/Fill using clean, non-erodible Fill

1175 1170 1165 1160 1155 1150 1145 1140

1172.52 1170.98 1169.51 1168.12 1166.81 1165.58 1164.43 1163.36 1162.36 1161.44 1160.60 1159.84 1159.16 1158.56 1158.03 1157.58 1157.22 1156.92 1156.71 1156.58 1156.52

1172.65 1169.64 1166.65 1163.73 1160.84 1158.57 1158.05 1156.19 1155.73 1155.00 1155.49

PVC STA 132+04.17
ELEV 1,172.22
EX 3" GAS LT
EX TELE RT
EX CABLE LT
EX 8" WAT LT
EX PROFILE
EX TELE
PROP PROFILE
-6.27 %
+2.50 %
EX 8" GAS
EX 18" GAS
EX 6" WAT
10' ENCASEMENT
142'-21" TYPE B @ 1.08%
50'-12" TYPE B @ 0.50%
55'-24" TYPE C @ 1.28%
PVI STA 135+54.77
ELEV = 1,150.26'
700.00' VC
STA 135+08.00, 38.60' RT
CB-2-2B, GRATE ELEV 1153.50
21" (E) 1148.25
STA 136+50.00, 37.45' RT
CB-2-3, GRATE ELEV 1154.30
24" (E) 1146.46
21" (W) 1146.71
STA 136+55.00, 23.00' LT
CB-3A, GRATE ELEV 1155.83
12" (E) 1151.93

132+00 133+00 134+00 135+00 136+00 137+00

PLAN AND PROFILE - US 40
STA 132+00 TO STA 137+00

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED
CHECKED

BEL-70-14.45

131
613

Minimal Degradation Alternative

LRH-2012-00368-OHR
BEL-70-14.45, PID 80599
Belmont County, Ohio
Plan of Stream 3 and Wetland B, Sheet 5 of 17

Stream 3
-87LF of Impact
-Impacted by Culvert Extension/ Grading

Wetland B
-0.10 of Impact
-Impacted by grading/fill using clean, non-erodible Fill

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	ESTIMATED QUANTITIES
335 - 342	DRAINAGE PLAN
410 - 418	ROADSIDE BARRIER & FENCING PLAN
478 - 484	SEEDING & SODDING PLAN
309 - 318	INTERSECTION DETAILS
330 - 334	DRIVE DETAILS
	DRIVE QUANTITIES
319 - 329	PAVEMENT JOINT DETAILS
546	℄ PLAT (PROP ℄ MONUMENTS)

PAVEMENT PLANING AND RESURFACING
WETLAND
4 DROP CURB PER DM-4.1

HORIZONTAL SCALE IN FEET

CALCULATED | CHECKED

PLAN AND PROFILE - US 40
STA 137+00 TO STA 142+00

BEL-70-14.45

132
613

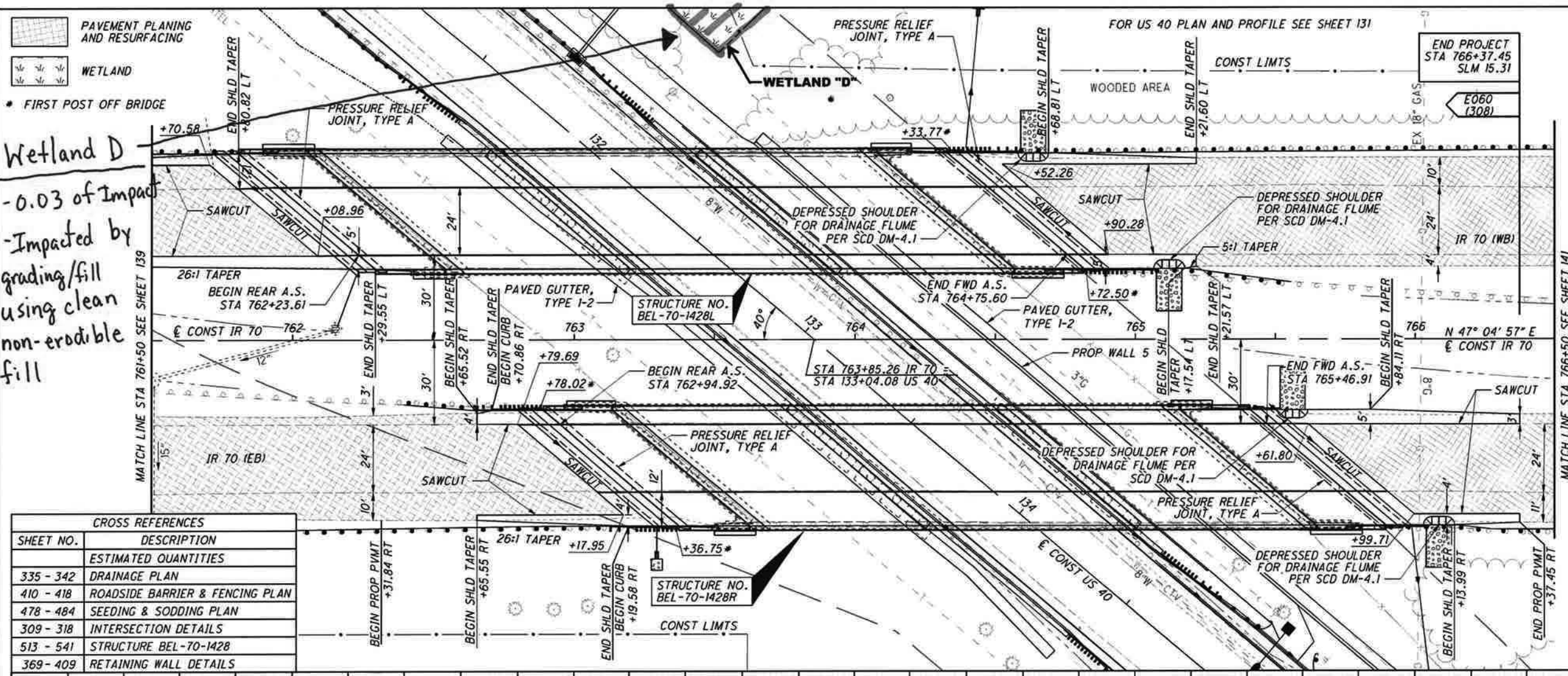
Minimal Degradation Alternative

LRH-2012-00368-OHR
BEL-70-14.45, PID 80599
Belmont County, Ohio
Plan of Wetland D, Sheet 6 of 17

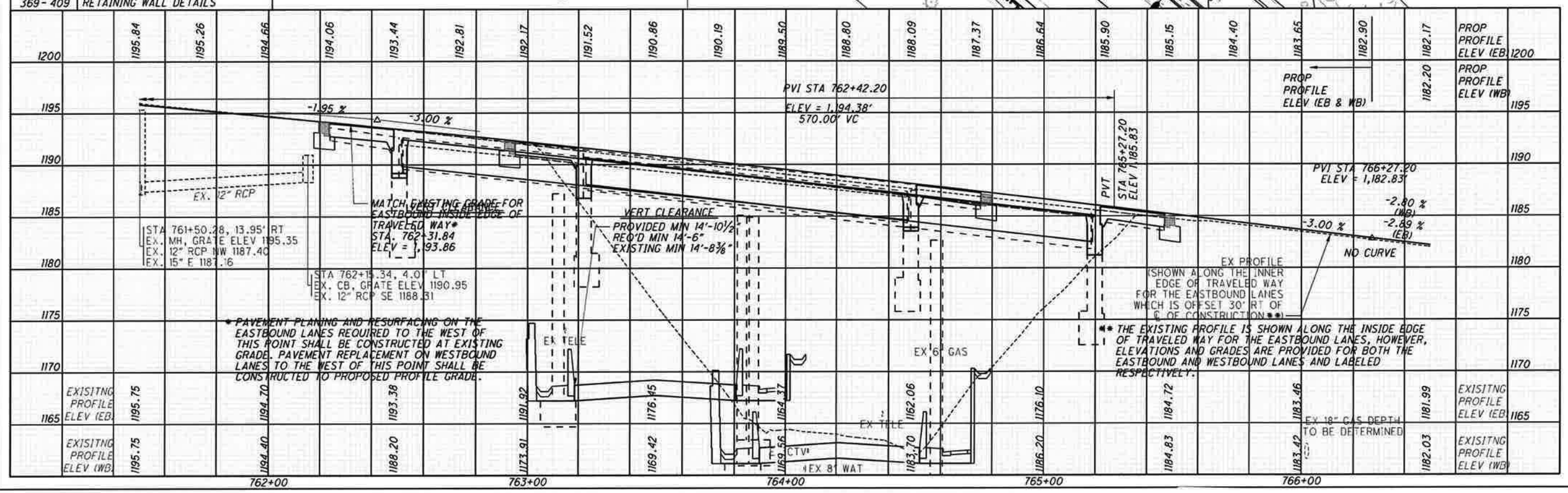
PAVEMENT PLANING AND RESURFACING
WETLAND
* FIRST POST OFF BRIDGE

Wetland D
-0.03 of Impact
-Impacted by grading/fill using clean non-erodible fill

WETLAND "D"



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	ESTIMATED QUANTITIES
335 - 342	DRAINAGE PLAN
410 - 418	ROADSIDE BARRIER & FENCING PLAN
478 - 484	SEEDING & SODDING PLAN
309 - 318	INTERSECTION DETAILS
513 - 541	STRUCTURE BEL-70-1428
369 - 409	RETAINING WALL DETAILS



* PAVEMENT PLANING AND RESURFACING ON THE EASTBOUND LANES REQUIRED TO THE WEST OF THIS POINT SHALL BE CONSTRUCTED AT EXISTING GRADE. PAVEMENT REPLACEMENT ON WESTBOUND LANES TO THE WEST OF THIS POINT SHALL BE CONSTRUCTED TO PROPOSED PROFILE GRADE.

** THE EXISTING PROFILE IS SHOWN ALONG THE INSIDE EDGE OF TRAVELED WAY FOR THE EASTBOUND LANES, HOWEVER, ELEVATIONS AND GRADES ARE PROVIDED FOR BOTH THE EASTBOUND AND WESTBOUND LANES AND LABELED RESPECTIVELY.

HORIZONTAL SCALE IN FEET
CALCULATED
CHECKED

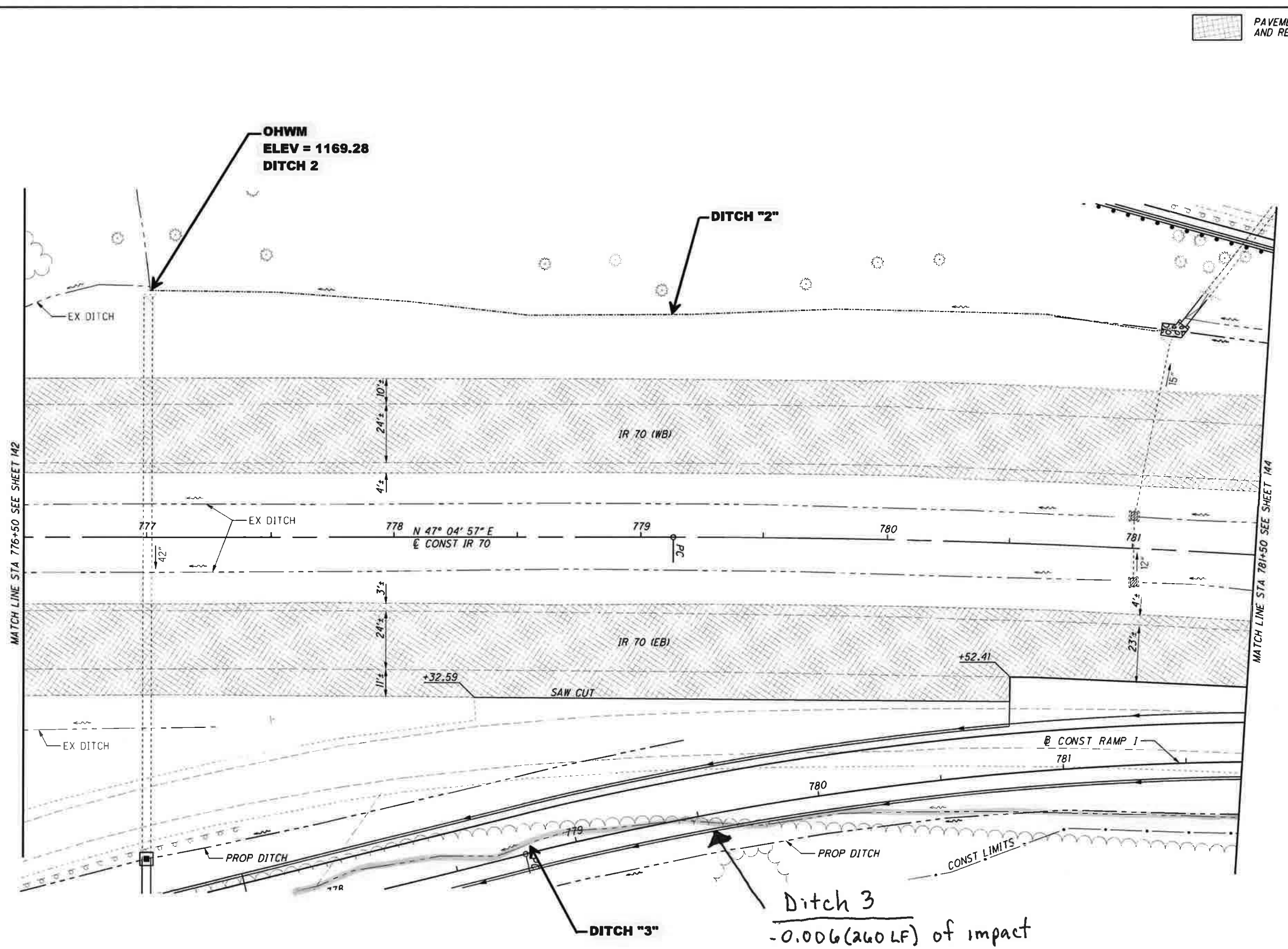
PLAN AND PROFILE - IR 70
STA 761+50 TO STA 766+50

BEL-70-14.45

140
613

Minimal Degradation Alternative

LRH-2012-00368-OHR
BEL-70-14.45, PID 80599
Belmont County, Ohio
Plan of Ditch 3, Sheet 7 of 17



Minimal Degradation Alternative

LRH-2012-00368-OHR
BEL-70-14.45, PID 80599
Belmont County, Ohio
Plan of Wetland I, Sheet 8 of 17

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	ESTIMATED QUANTITIES
335 - 342	DRAINAGE PLAN
410 - 418	ROADSIDE BARRIER & FENCING PLAN
478 - 484	SEEDING & SODDING PLAN
309 - 318	INTERSECTION DETAILS
319 - 329	PAVEMENT JOINT DETAILS
546	℄ PLAT (PROP ℄ MONUMENTS)

WETLAND

Wetland I
- 0.36 of impact
- Impacted by grading/fill using clean non-erodible Fill

PROP MON ASSEMBLY
PROP LIGHT POLE
℄ CONST SR 331
HW23
STA 51+19.28 SR 331 = STA 772+66.92 RAMP I
CURB, TYPE 6
PR RAMP I CURVE DATA (C20)
P.I. STA 774+96.21
Δ = 17° 40' 44" (LT)
Dc = 9° 30' 06"
R = 603.00'
T = 93.77'
L = 186.06'
E = 7.25'
C = 185.32'
773
N 50° 50' 02" E
+55.93
0' LT
+14.24
6.67' RT
℄ CONST RAMP I
C20
PC
PT
776
N 33° 09' 17" E
EX RAMP I
PAVEMENT (TBR)
PROP DITCH
MATCH LINE STA 777+00 SEE SHEET 149
WOODED AREA
EX LA-R/W
LA-R/W
CONST LIMITS
WETLAND "I"
PROP BIO-RETENTION CELL
EX 24" CULVERT

PVC STA 772+97.84 ELEV 1,184.77
1,184.76 +86.47l
PVI STA 773+97.84 ELEV = 1,184.21'
200.00' VC
PVT STA 774+97.84 ELEV 1,180.41
PVC STA 775+04.00 ELEV 1,180.18
PVI STA 777+79.00 ELEV = 1,169.73'
550.00' VC
PROP PROFILE
EX PROFILE
0.50 %
-3.80 %

1195 1190 1185 1180 1175 1170 1165 1160
1184.77 1184.57 1184.23 1183.84 1183.34 1182.74 1182.04 1181.24 1180.33 1179.41 1178.58 1177.85 1177.20 1176.65 1176.18 1175.81 1175.52
1179.74 1179.00 1179.00 1178.00 1173.69 1168.04 1164.42 1163.30 1165.00
773+00 774+00 775+00 776+00 777+00

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED
CHECKED

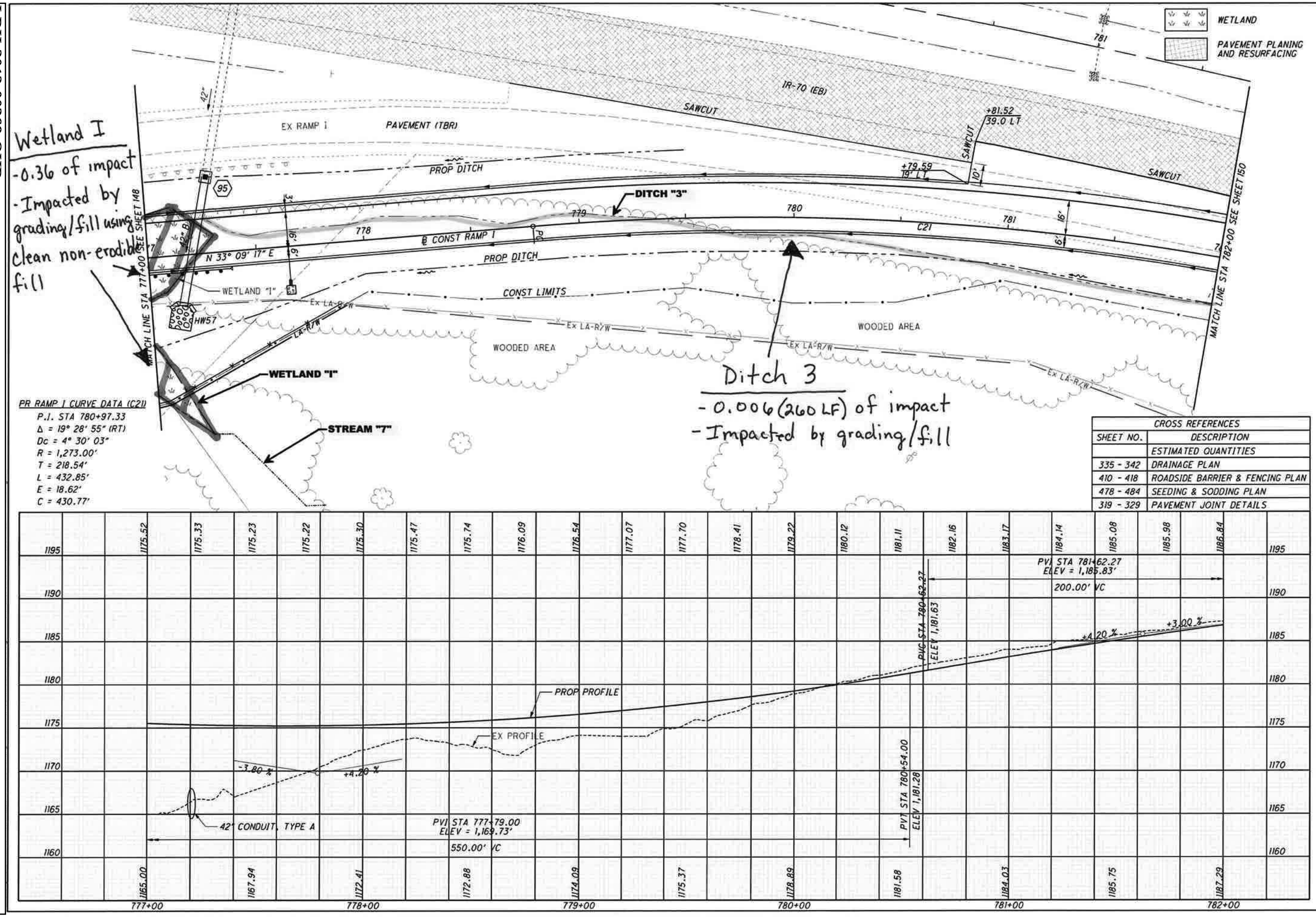
PLAN AND PROFILE - RAMP I
STA 772+66.92 TO STA 777+00

BEL-70-14.45

148
613

Minimal Degradation Alternative

LRH-2012-00368-OHR
BEL-70-14.45, PID 80599
Belmont County, Ohio
Plan of Ditch 3 and Wetland I, Sheet 9 of 17



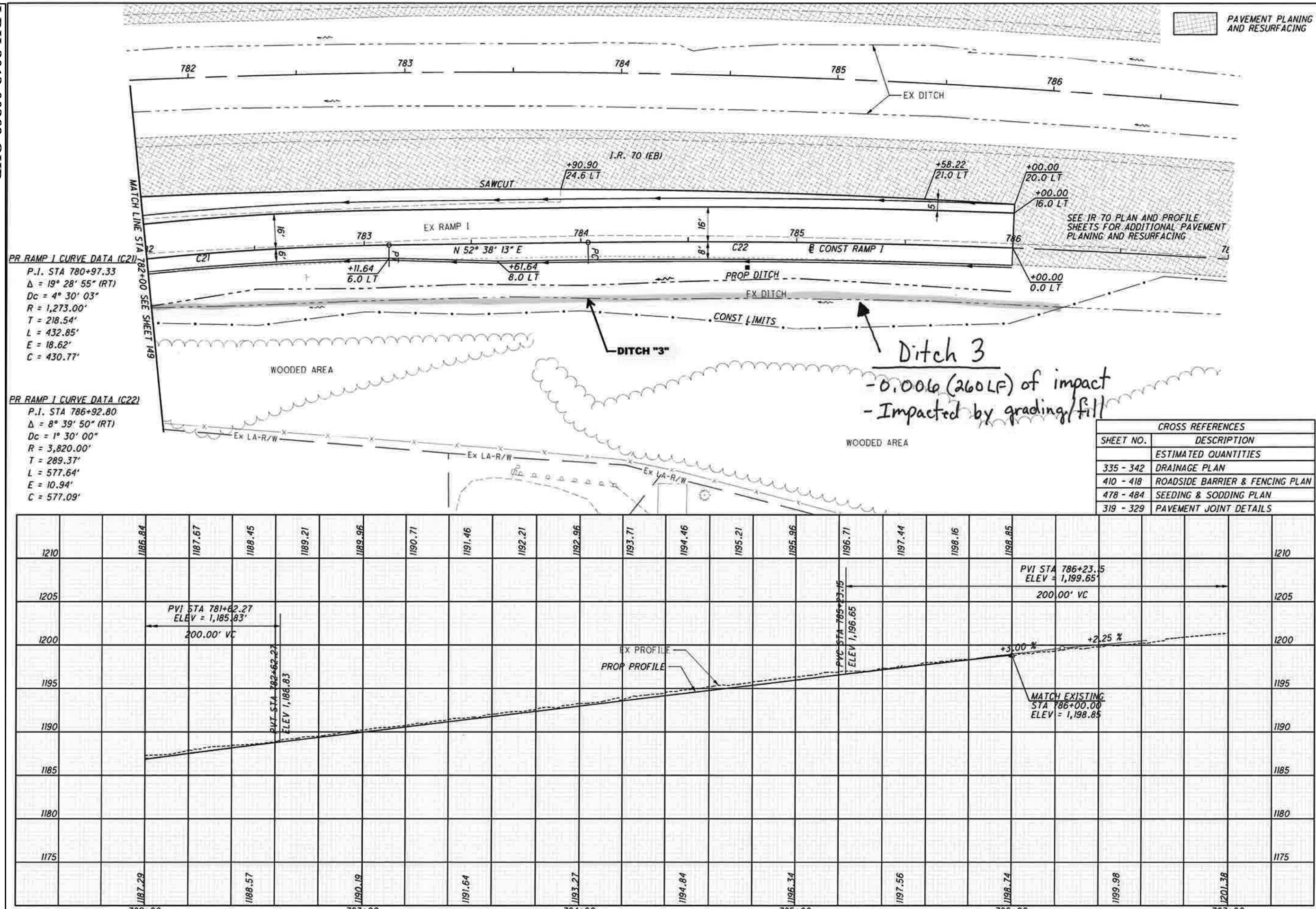
PLAN AND PROFILE - RAMP I
STA 777+00 TO STA 782+00

BEL-70-14.45

149
613

Minimal Degradation Alternative

LRH-2012-00368-OHR
BEL-70-14.45, PID 80599
Belmont County, Ohio
Plan of Ditch 3, Sheet 10 of 17



Minimal Degradation Alternative

LRH-2012-00368-OHR
BEL-70-14.45, PID 80599
Belmont County, Ohio
Plan of Stream 1 and Wetland C, Sheet 11 of 17

Wetland C
- 0.04 of impact
- Impacted by grading/fill using clean non-erodible fill

Stream 1
- 525 LF of impact
- Impacted by relocation using clean non-erodible fill

WETLAND "F"
WETLAND "C"
STREAM "1"
DITCH "1"
WOODED AREA
PROP DITCH
EX DITCH
EX CULVERT
PEDESTRIAN PATH
PROP LIGHT POLE
SAWCUT
CONST LIMITS
C17
BEGIN WORK STA 755+90.00
+00.00 5.6' LT
+00.00 19.3' RT
+10.00 2' RT
+10.00 14.1' RT
+50.00 2' RT
+00.00 14' RT
BEGIN PVMT TAPER +10.00
END PVMT TAPER +12.91
STA 127+52.56 US 40 = STA 760+17.86 RAMP G
℄ CONST RAMP G
℄ CONST US 40
N 18° 53' 20" E
68°

PR RAMP G CURVE DATA (C17)

P.I. STA 754+70.78	p = 2.27'
Δ = 27° 00' 00" (LT)	Δc = 14° 30' 00" (LT)
Dc = 5° 00' 00"	Lc = 290.00'
R = 1,145.92'	Ts = 400.61'
Ls = 250.00'	Es = 34.90'
θs = 6° 15' 00"	C = 289.23'
LT = 166.77'	C1 = C2 = 249.87'
ST = 83.43'	C.B. 1 = N 43° 48' 20" E
x = 249.70'	C.B. = N 32° 23' 20" E
y = 9.08'	C.B. 2 = N 20° 58' 19" E
k = 124.95'	

CROSS REFERENCES

SHEET NO.	DESCRIPTION
	ESTIMATED QUANTITIES
335 - 342	DRAINAGE PLAN
410 - 418	ROADSIDE BARRIER & FENCING PLAN
478 - 484	SEEDING & SODDING PLAN
309 - 318	INTERSECTION DETAILS
319 - 329	PAVEMENT JOINT DETAILS

PAVEMENT PLANING AND RESURFACING
WETLAND

HORIZONTAL SCALE IN FEET
CALCULATED
CHECKED

EX PROFILE
MATCH EXISTING STA 758+10.00 ELEV = 1,197.62
(INSTANTANEOUS GRADE)
+0.60 %
+1.60 %
PVT STA 758+20.78 ELEV 1,197.69
PVC STA 759+20.77 ELEV 1,198.79
PVI STA 758+70.78
ELEV = 1,197.99'
100.00' VC
PROP PROFILE
STA 759+98.49 ELEV = 1,200.03
EX TELE

1197.71 1197.90 1198.16 1198.48 1198.85 1199.34 1199.77
1200.23 1199.25 1198.41 1197.78 1197.61 1197.82 1198.58 1199.22 1199.90
1215 1210 1205 1200 1195 1190 1185 1180
756+00 757+00 758+00 759+00 760+00

PLAN AND PROFILE - RAMP G
STA 755+50.00 TO STA 760+17.86

BEL-70-14.45

151
613

Minimal Degradation Alternative

Minimal Degradation Alternative

PLAN AND PROFILE - HAMMOND RD CONNECTOR
STA 20+00 TO STA 23+00

BEL-70-14.45

156
613

CALCULATED
CHECKED

HORIZONTAL SCALE IN FEET
0 20 40
10

PAVEMENT PLANING AND RESURFACING
WETLAND

Wetland L
- 0.25 of impact
- impacted by grading/fill using clean non-erodible fill

MATCH LINE STA 23+00 SEE SHEET 13

WETLAND "L"
PROP WALL 3
PROP DITCH
PROP SIGNAL POLE
PROP SIGNAL POLE
PROP WALL 4
PROP SIGNAL POLE
PROP SIGNAL POLE
PROP CONTROLLER
PROP MON ASSEMBLY
STA 20+00.00 CONNECTOR RD =
STA 20+80.24 SR 331
CORRECTIONAL CENTER ACCESS
℄ CONST HAMMOND RD CONNECTOR
PROP MON ASSEMBLY 22
℄ CONST SR 331
CONST LIMITS
CONST LIMITS
CONST LIMITS
R/W
WOODED AREA
WOODED AREA
ELECTRICAL SUBSTATION
EX OH ELEC
8" FM
12" SAN
8" W
Ex U
Ex SH
TMP
TEL
HW1
C14
CURB, TYPE 6
END WALL
+98.06
+04.47 24' LT
+72.18 27.13' LT
+47.21 12' RT
+68.58 19.87' RT
N 66° 56' 08" E
PC
15" B
12" B
15" C
15" E
15" B
87
20
21
22
5'
12'
2"
6"

PR HAMMOND CONNECTOR CURVE DATA (C14)
P.I. STA 22+57.60
Δ = 24° 43' 47" (RT)
Dc = 14° 30' 19"
R = 395.00'
T = 86.59'
L = 170.49'
E = 9.38'
C = 169.17'

CROSS REFERENCES

SHEET NO.	DESCRIPTION
	ESTIMATED QUANTITIES
335 - 342	DRAINAGE PLAN
410 - 418	ROADSIDE BARRIER & FENCING PLAN
478 - 484	SEEDING & SODDING PLAN
309 - 318	INTERSECTION DETAILS
330 - 334	DRIVE DETAILS
	DRIVE QUANTITIES
546	℄ PLAT (PROP ℄ MONUMENTS)

PVT STA 22+42.67 ELEV 1,224.28
PVC STA 20+22.67 ELEV 1235.94
STA 20+18.08 ELEV = 1,236.0
AVI STA 21+32.67 220.00' VC ELEV = 1,234.18'
-9.00 %
PROP PROFILE
EX PROFILE
EX 2" GAS

1245 1240 1235 1230 1225 1220 1215 1210
1219.12 1221.37 1223.62 1225.81 1227.81 1229.60 1231.17 1231.98 1233.51 1234.99 1235.63 1235.93 1235.89
1198.95 1203.16 1206.85 1211.35 1216.49 1222.12
23+00 22+00 21+00 20+00

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Plan of Wetland L, Sheet 13 of 17

PR HAMMOND CONNECTOR CURVE DATA (C14)
P.I. STA 22+57.60
Δ = 24° 43' 47" (RT)
Dc = 14° 30' 19"
R = 395.00'
T = 86.59'
L = 170.49'
E = 9.38'
C = 169.17'

Wetland L
- 0.25 of impact
- impacted by grading/fill using clean non-erodible fill

WETLAND
WOODED AREA
WETLAND "L"
PROP MON ASSEMBLY
HW30
HW31
CONST LIMITS
PROP DITCH
+27.00 24' LT
+72.00 12' LT
42" A
C14
℄ CONST HAMMOND RD CONNECTOR
S 88° 20' 05" E
CURB, TYPE 6
MATCH LINE STA 23+00 SEE SHEET 156
MATCH LINE STA 28+00 SEE SHEET 158
8"FM
12"SAN
SAN
TMP
R/W
Ex U
EX OH ELEC
PARK BOUNDARY

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	ESTIMATED QUANTITIES
335 - 342	DRAINAGE PLAN
410 - 418	ROADSIDE BARRIER & FENCING PLAN
478 - 484	SEEDING & SODDING PLAN
546	℄ PLAT (PROP ℄ MONUMENTS)

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED
CHECKED

PLAN AND PROFILE - HAMMOND RD CONNECTOR
STA 23+00 TO STA 28+00

BEL-70-14.45

157
613

1220 1215 1210 1205 1200 1195 1190 1185
1219.12 1216.87 1214.62 1212.37 1210.12 1207.98 1205.95 1204.05 1202.27 1200.61 1199.07 1197.65 1196.36 1195.19 1194.14 1193.21 1192.40 1191.72 1191.15 1190.71 1190.39
-9.00 %
PVC STA 23+91.40 ELEV 1,210.89
PROP 42" CULVERT
SAN
EX PROFILE
PROP PROFILE
-9.00 %
-1.20 %
-1.20 %
PVI STA 25+91.40
400.00' VC
ELEV = 1,192.89'
PVT STA 27+91.40 ELEV 1,190.49
1198.95 1196.27 1193.11 1190.63 1190.05 1192.38 1194.67 1196.95 1198.68 1200.03 1200.67
23+00 24+00 25+00 26+00 27+00 28+00

Minimal Degradation Alternative

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Plan of Stream 4, Sheet 14 of 17

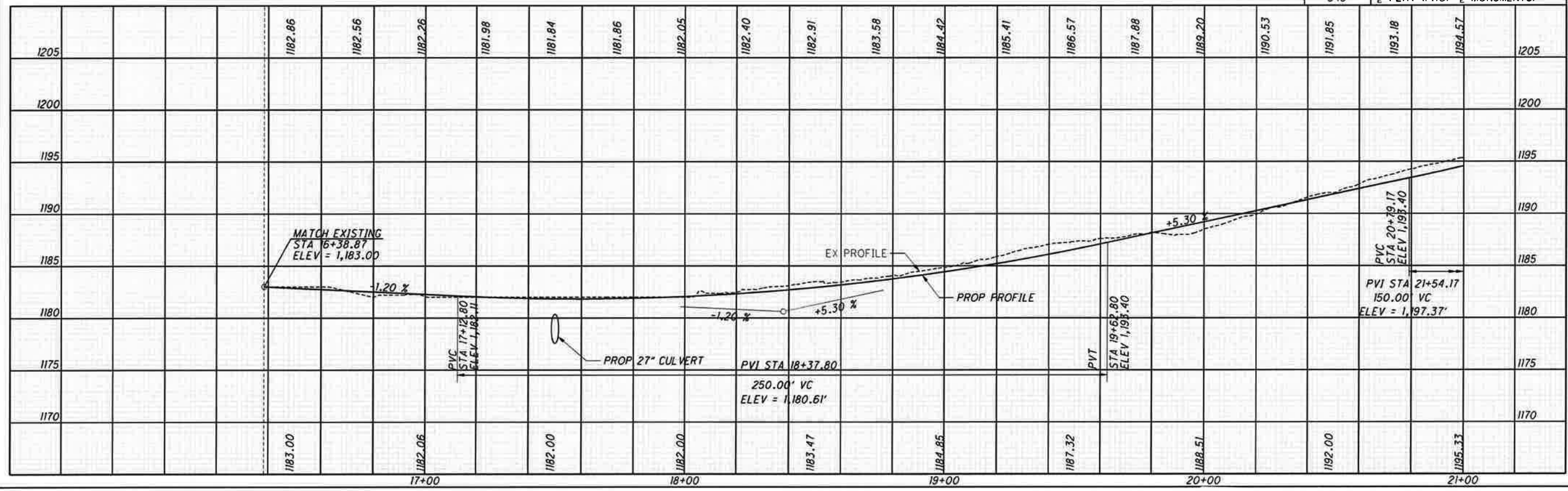
FOR COMMERCIAL DRIVE PLAN & PROFILE, SEE SHEETS 163 - 164
FOR NEW FIELD DRIVE LOCATION, SEE SHEET 162

PR COVERED BRIDGE CURVE DATA (C15)
P.I. STA 18+09.62
Δ = 38° 56' 14" (LT)
Dc = 33° 42' 12"
R = 170.00'
T = 60.10'
L = 115.53'
E = 10.31'
C = 113.32'

BEGIN WORK STA 16+20.00
PROP MON ASSEMBLY
+38.37 5' LT
+38.37 4.5' RT
+88.37 10' LT
+88.37 10' RT
PROP DITCH
WOODED AREA
N 45° 26' 52" E
HW38
HW39
27" RCP
CONST LIMITS
STREAM "4"
EX ASPHALT (TBR)
EX FIELD DRIVE (TBR AND RELOCATED)
STA 19+11.57 COVERED BRIDGE RD = STA 90+00.00 COMMERCIAL DRIVE
C15
PT
PC
S 83° 29' 22" E
℄ COVERED BRIDGE RD (CR 1518)
N 6° 30' 38" E
MATCH LINE STA 21+00 SEE SHEET 162
OHWM ELEV = 1181.97 STREAM 4
℄ CONST COMMERCIAL DRIVE
HW40
HW41
36" D
18"
STREAM RESTORED TO OPEN CHANNEL FLOW

Stream 4
- 333 LF of impact
- impacted by culvert install

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	ESTIMATED QUANTITIES
335 - 342	DRAINAGE PLAN
478 - 484	SEEDING & SODDING PLAN
546	℄ PLAT (PROP ℄ MONUMENTS)



HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED
CHECKED

PLAN AND PROFILE - COVERED BRIDGE RD
STA 16+00 TO STA 21+00

BEL-70-14.45

161
613

Minimal Degradation Alternative

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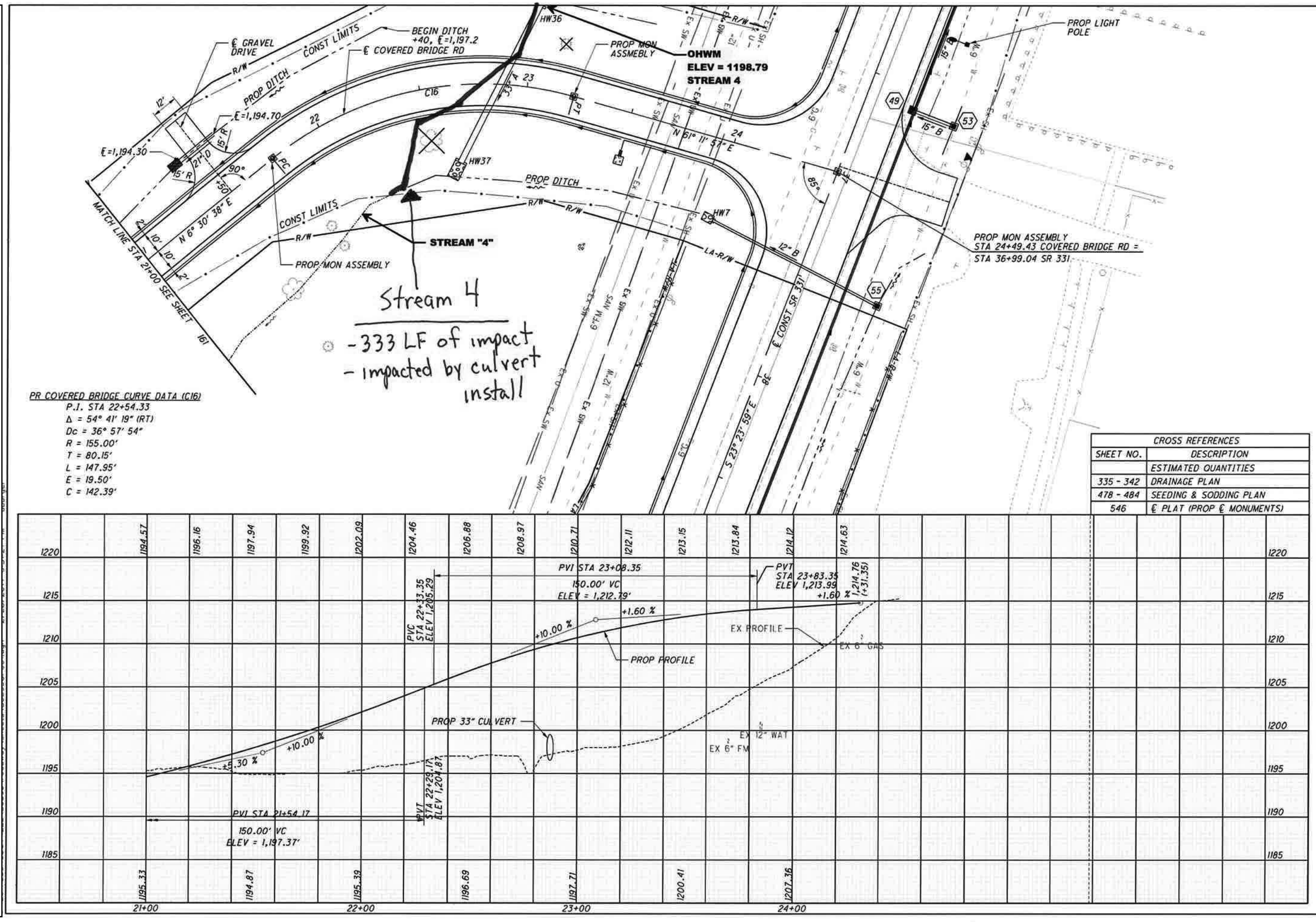
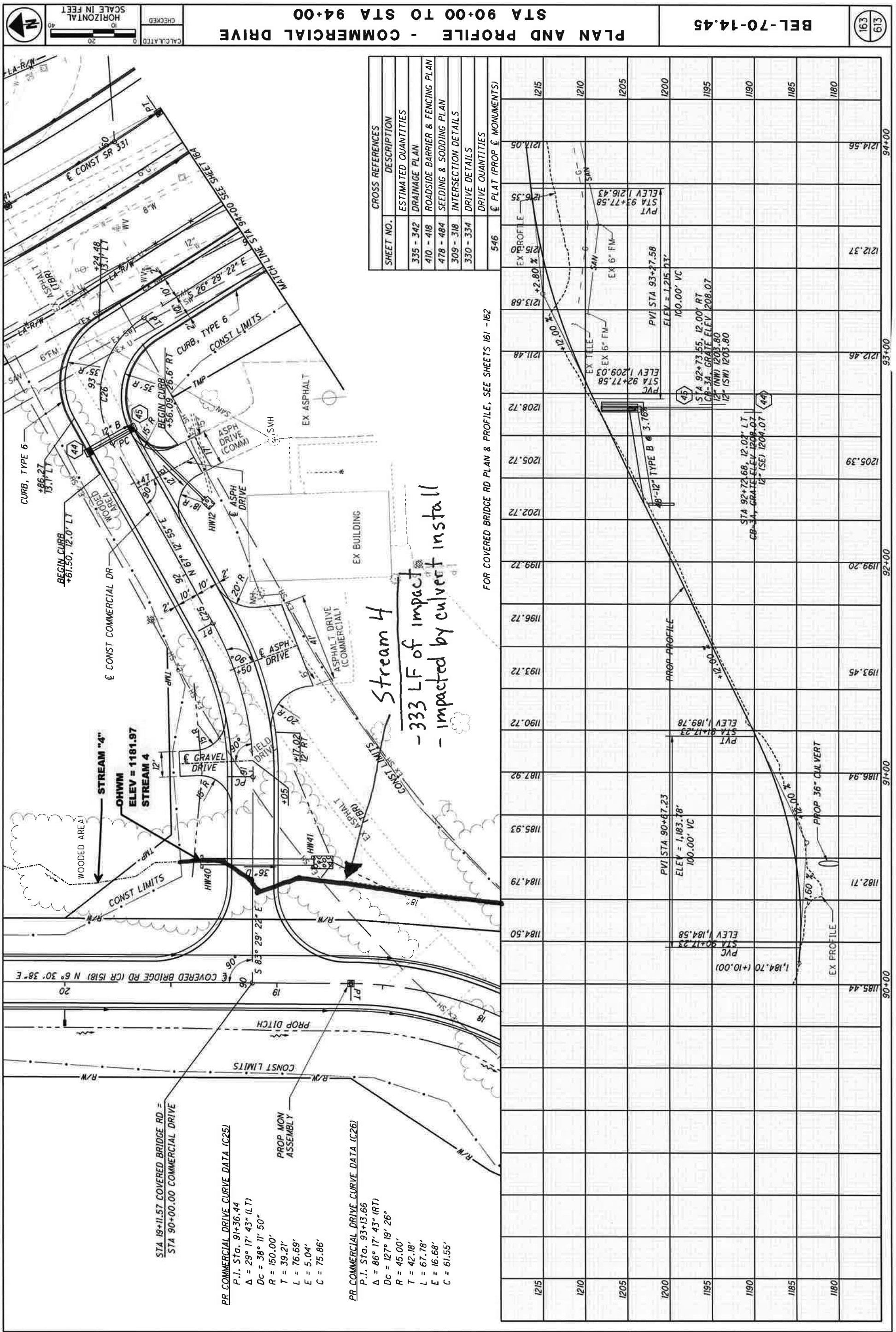
Belmont County, Ohio
Plan of Stream 4, Sheet 15 of 17



Minimal Degradation Alternative

Minimal Degradation Alternative



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Belmont County, Ohio
Plan of Stream 4, Sheet 16 of 17

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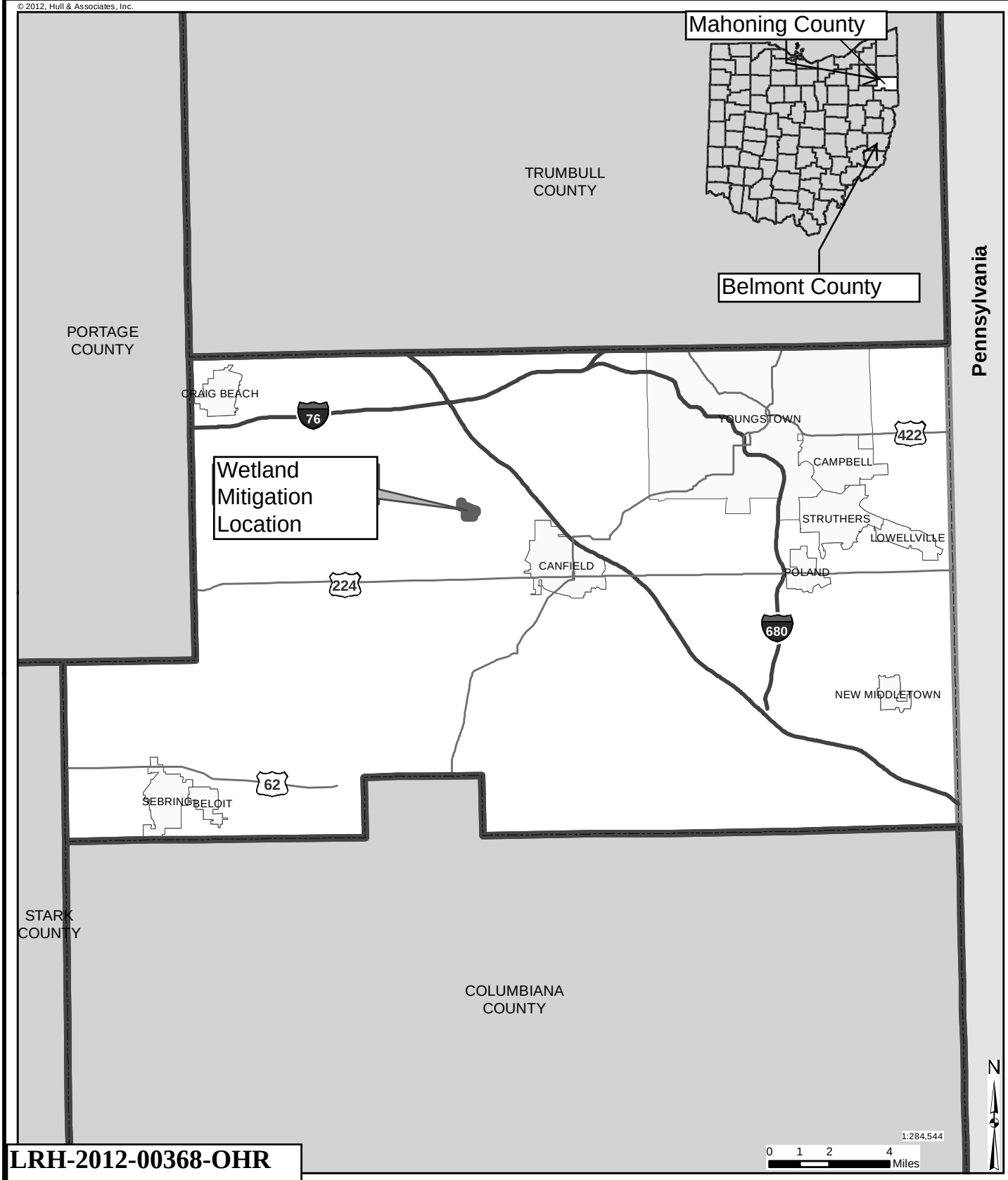

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Mahoning County, Ohio
Wetland Mitigation Location Map
Sheet 17 of 17

MAH-80-0.97

MAH-80 Mitigation Area
Site Location Map

Geeburg, Mahoning County, Ohio

Date:
November 2013

File Name:
ODT169_03_Fig01_Location.mxd

Edited: 11/11/2013 By: mopel

Figure
1