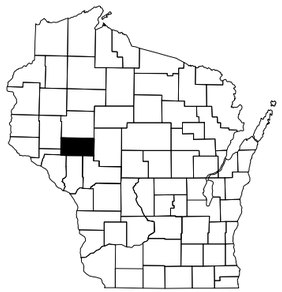
PROJECT ID: 1021-03-74

WITH:

COUNTY: EAU CLAIRE

ORDER OF SHEETS

TOTAL SHEETS =



N

DESIGN DESIGNATION 1021-03-04

			Hobbs Rd	CTH I	IH 94
A.A.D.T.	2018	=	430	335	26,800
A.A.D.T.	2042	=	530	410	29,900
D.H.V.		=	N/A	N/A	7,270
D.D.		=	N/A	N/A	58/42
T.		=	6.0%	6.0%	32.2%
DESIGN SPEED		=	45 MPH	45 MPH	70 MPH
ESALS		=	52,000	52,000	N/A

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- OVERHEAD UTILITY (OH)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

EAU CLAIRE - OSSEO

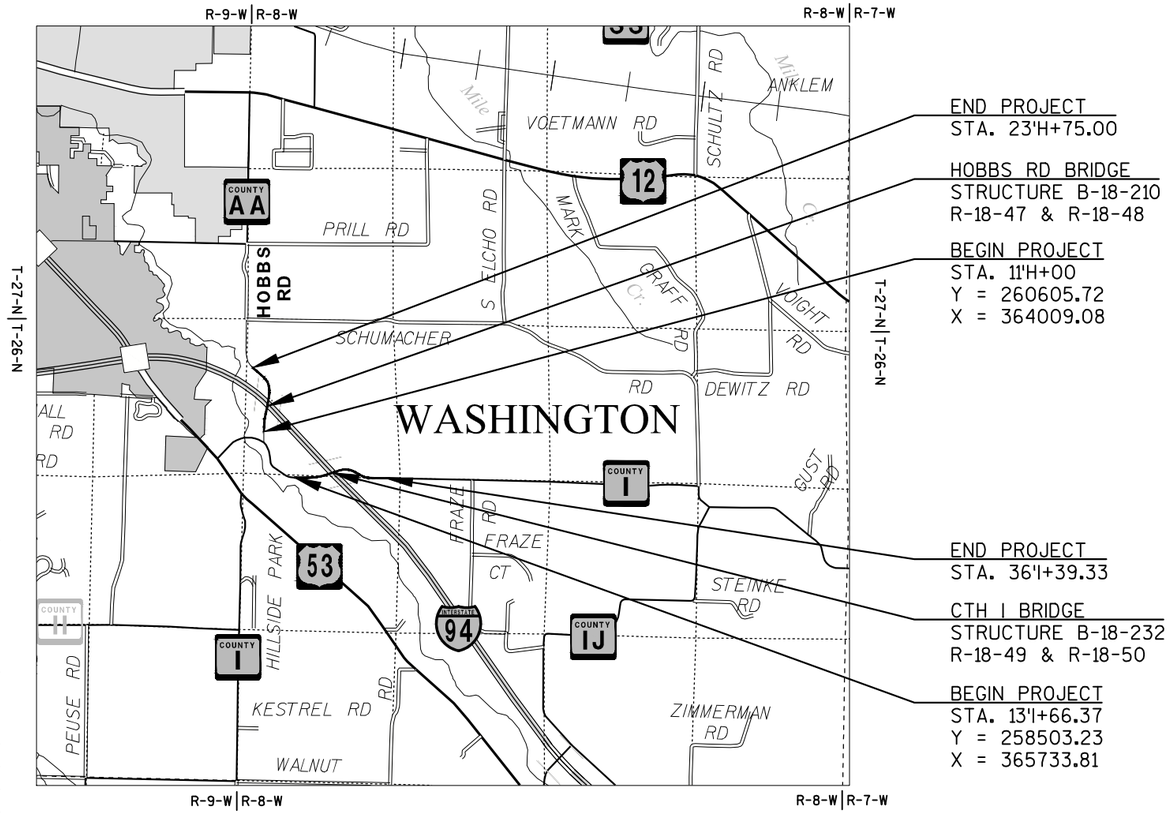
2 BR/HOBBS RD B18-210/CTH I B18-232

IH 94

EAU CLAIRE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1021-03-74		

STATE PROJECT NUMBER
1021-03-74



LAYOUT
SCALE 0 2 MILES

TOTAL NET LENGTH OF CENTERLINE = 0.672 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, EAU CLAIRE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	NW REGION
Designer	LUCAS BUDDEN
Project Manager	MATTHEW THORNSEN
Regional Examiner	TOU YANG
Regional Supervisor	TARA WEISS

APPROVED FOR THE DEPARTMENT

DATE: _____ _____ (Signature)

E

UTILITIES

COMMUNICATIONS LINE

AT&T LEGACY
MR. WILLIAM KOENIG
110 N. MAIN ST.
CULVER, IN 46511
PHONE: (608) 628-0575
jmc140@myfrontiermail.com

WINDSTREAM KDL, INC.
MR. JIM KOSTUCH
13935 BISHOPS DR.
BROOKFIELD, WI 53005
PHONE: (262) 792-7938
UTILITY REPRESENTATIVE
DENNIS RUESS
PHONE: (608) 512-5587
dennis.ruess@windstream.com

ELECTRICITY - DISTRIBUTION

EAU CLAIRE ENERGY COOPERATIVE
MR. GARY BRECKA
8214 U.S. HWY 12
FALL CREEK, WI 54742-0368
PHONE: (715) 832-1603

DNR

DNR WEST CENTRAL REGION HEADQUARTERS
CHRIS WILLGER
1300 W. CLAIREMONT AVE.
EAU CLAIRE, WI 54701
PHONE: (715) 839-1609
christopherj.willger@wisconsin.gov

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND MULCHED. ALL OTHER DISTURBED AREAS ARE TO BE SEEDED, FERTILIZED AND MULCHED AT THE CONTRACTORS EXPENSE.

THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER IN CONSULTATION WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN IN THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

LOCATIONS FOR PERMANENT SIGNS SHOWN ON THE PLAN ARE APPROXIMATE. ACTUAL LOCATIONS OF PERMANENT SIGNS ARE TO BE COORDINATED IN THE FIELD BY THE ENGINEER.

DETAILS OF INSTALLATION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS PLAN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, STANDARD DETAILS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

TYPICAL FINISHED SECTION SHOWS THE GENERAL ROADWAY FEATURES THROUGHOUT THE PROJECT. PAVEMENT, SLOPES, BORDER SLOPES, ETC., MAY VARY WITHIN THE STATION LIMITS OF THE STATION SECTION.

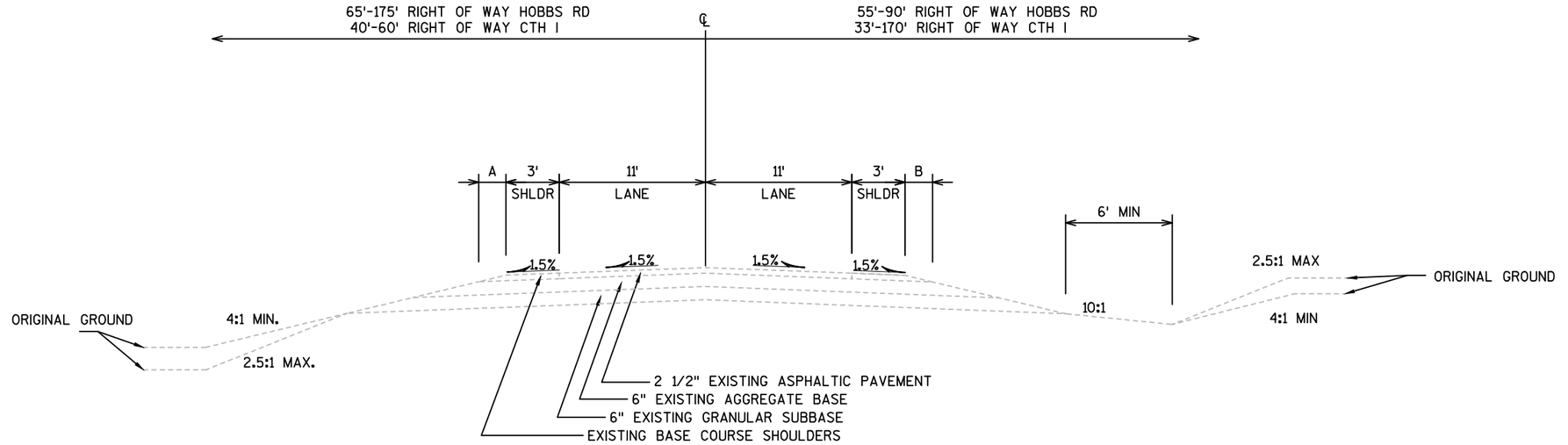
ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 2.5" LOWER LAYER AND A 2.0" UPPER LAYER.

LIST OF STANDARD ABBREVIATIONS

ABUT.	ABUTMENT
AGG.	AGGREGATE
AH.	AHEAD
APPROX.	APPROXIMATE
A.E.W.	APRON ENDWALL
ASPH.	ASPHALTIC
A.D.T.	AVERAGE DAILY TRAFFIC
AZ.	AZIMUTH
BK.	BACK
BEG.	BEGIN
B.M.	BENCH MARK
C/L	CENTER LINE
CONC.	CONCRETE
CONST.	CONSTRUCTION
CO.	COUNTY
C.T.H.	COUNTY TRUNK HIGHWAY
X-SEC.	CROSS SECTION
CR.	CRUSHED
CFS	CUBIC FEET/SECOND
C.Y., CU. YD.	CUBIC YARD
CULV.	CULVERT
C.P.	CULVERT PIPE
D.O.T.	DEPARTMENT OF TRANSPORTATION
D.H.V.	DESIGN HOUR VOLUME
DIA.	DIAMETER
D.	DIRECTIONAL DISTRIBUTION
DISCH. OR DIS.	DISCHARGE
EA.	EACH
ELECT.	ELECTRIC
EL. OR ELEV.	ELEVATION
EMB.	EMBANKMENT
E.B.S.	EXCAVATION BELOW SUBGRADE
EXIST.	EXISTING
FERT.	FERTILIZE
F.E.	FIELD ENTRANCE
FIN.	FINISHED
FT.	FOOT
F.L.	FLOW LINE
GA.	GAUGE
HORIZ.	HORIZONTAL
CWT.	HUNDREDWEIGHT
INL.	INLET
LT.	LEFT
L.H.F.	LEFT-HAND FORWARD
LIN.	LINEAR
LIN. FT.	LINEAR FOOT
L.S.	LUMP SUM
MAX.	MAXIMUM
MI.	MILE
MISC.	MISCELLANEOUS
N.E.	NORTH EAST
N.W.	NORTH WEST
PAV'T	PAVEMENT
P.C.	POINT OF CURVATURE
P.I.	POINT OF INTERSECTION
P.T.	POINT OF TANGENCY
P.O.T.	POINT ON TANGENT
LB.	POUND
P.E.	PRIVATE ENTRANCE
PROJ.	PROJECT
R.	RANGE
REQ'D	REQUIRED
RT.	RIGHT
R.H.F.	RIGHT-HAND FORWARD
R/W	RIGHT OF WAY
RD.	ROAD
SHR.	SHRINKAGE
SL.	SLOPE
STD.	STANDARD
S.D.D.	STANDARD DETAIL DRAWINGS
S.T.H.	STATE TRUNK HIGHWAY
STA.	STATION
S.P.P.A.	STRUCTURAL PLATE PIPE ARCH
STRUCT.	STRUCTURE
SURF.	SURFACE
TEL.	TELEPHONE
TN.	TOWN
T.	TRUCKS (PERCENT OF)
UNCL.	UNCLASSIFIED
U.G.	UNDERGROUND
V.	VELOCITY OR DESIGN SPEED
V.C.	VERTICAL CURVE

2

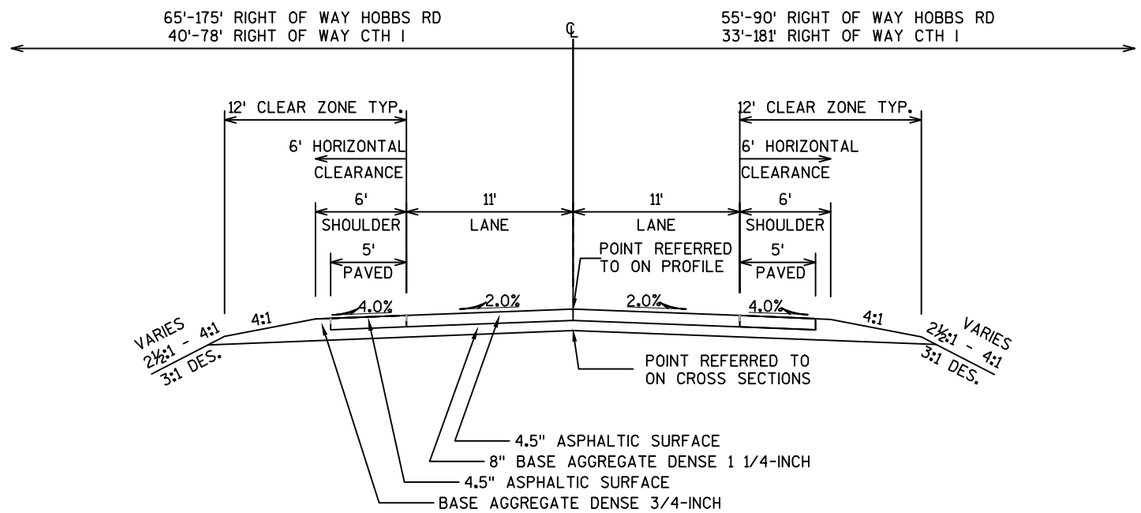
2



TYPICAL EXISTING SECTION

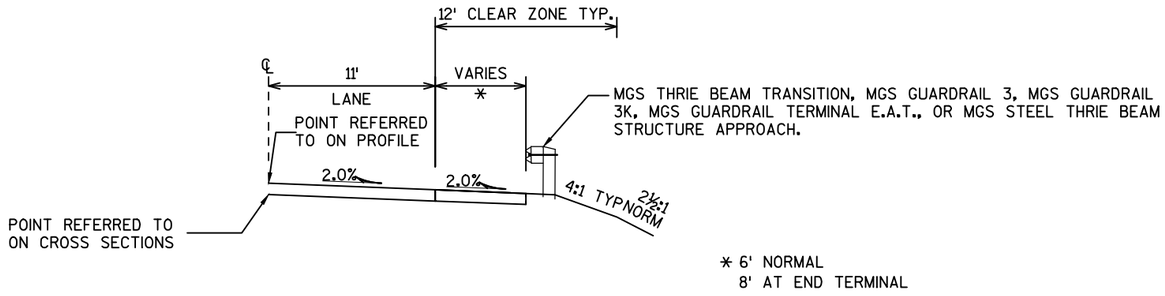
HOBBS ROAD STA 11'H+00 - STA 14'H+28.02
HOBBS ROAD STA 16'H+50.63 - STA 23'H+75.00
CTH I STA 13'I+66.37 - STA 19'I+29.38
CTH I STA 21'I+32.85 - STA 36'I+39.33

DEG. OF CURVE	SUPER.	A	B
TAN.	.015 '/, NC	0.55	0.55
5°00' LT	.06 '/, FT	1.10	0.67
7°00' RT	.06 '/, FT	0.67	11.10
7°00' LT	.06 '/, FT	1.10	0.67
8°00' RT	.06 '/, FT	0.67	1.10



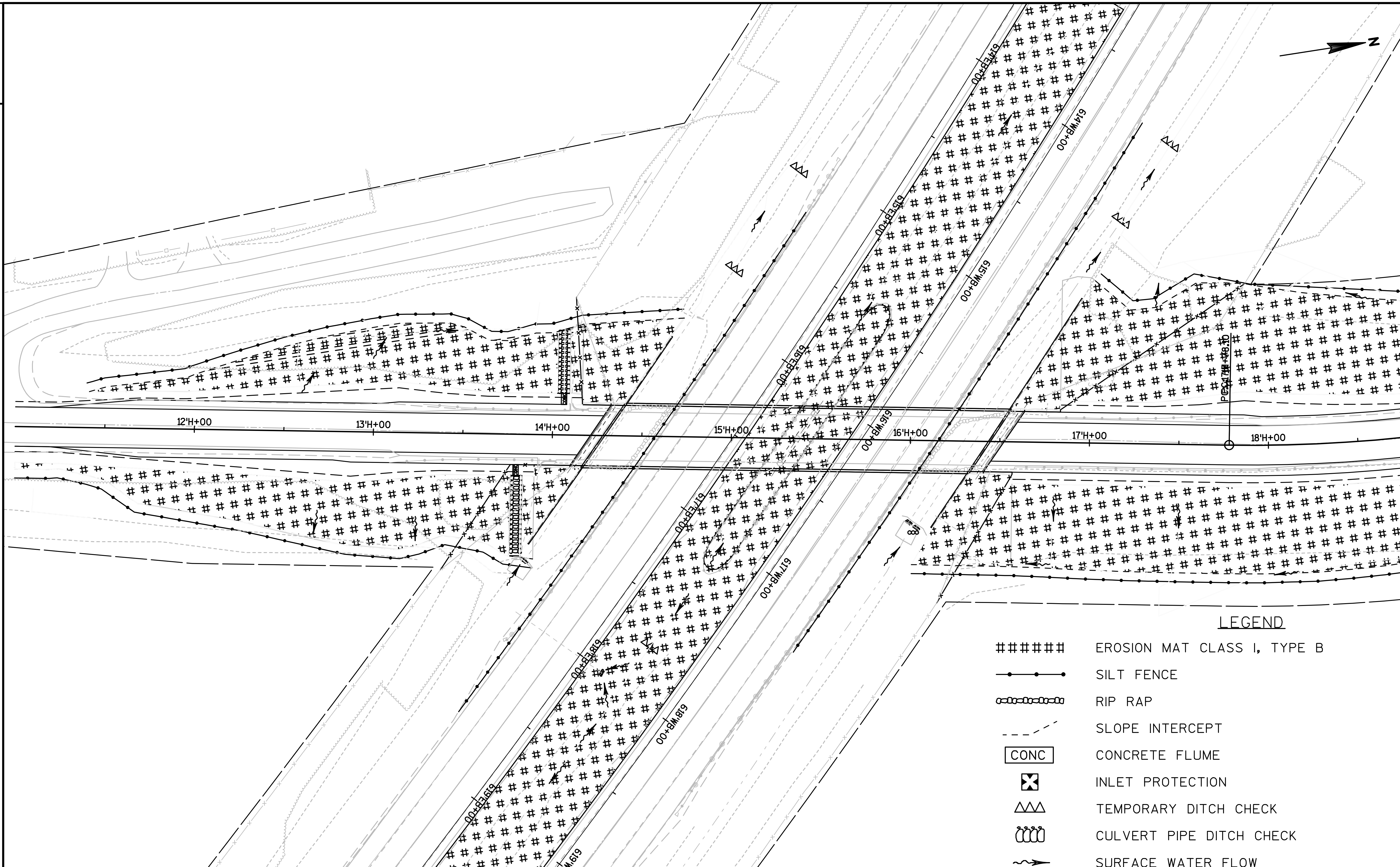
TYPICAL FINISHED SECTION

HOBBS ROAD STA 11'H+00 - STA 14'H+21.31
HOBBS ROAD STA 16'H+52.31 - STA 23'H+75.00
CTH I STA 13'I+66.17 - STA 19'I+15.63
CTH I STA 21'I+28.38 - STA 36'I+39.33



TYPICAL FINISHED HALF SECTION WITH BEAM GUARD

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	TYPICAL SECTIONS HOBBS ROAD & CTH I	SHEET _____	E



LEGEND

######	EROSION MAT CLASS I, TYPE B
	SILT FENCE
	RIP RAP
	SLOPE INTERCEPT
CONC	CONCRETE FLUME
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE DITCH CHECK
	SURFACE WATER FLOW

PROJECT NO:1021-03-74	HWY:IH 94	COUNTY:EAU CLAIRE	EROSION CONTROL	SHEET	E

2

2

LEGEND

EROSION MAT CLASS I, TYPE B

SILT FENCE

RIP RAP

SLOPE INTERCEPT

CONC CONCRETE FLUME

INLET PROTECTION

TEMPORARY DITCH CHECK

CULVERT PIPE DITCH CHECK

SURFACE WATER FLOW

N

23'H+00

22'H+00

21'H+00

20'H+00

19'H+00

PROJECT NO:1021-03-74	HWY:IH 94	COUNTY:EAU CLAIRE	EROSION CONTROL	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\VIEWFRAMEGROUPS\022001-EC.DWG
LAYOUT NAME - 022002-EC

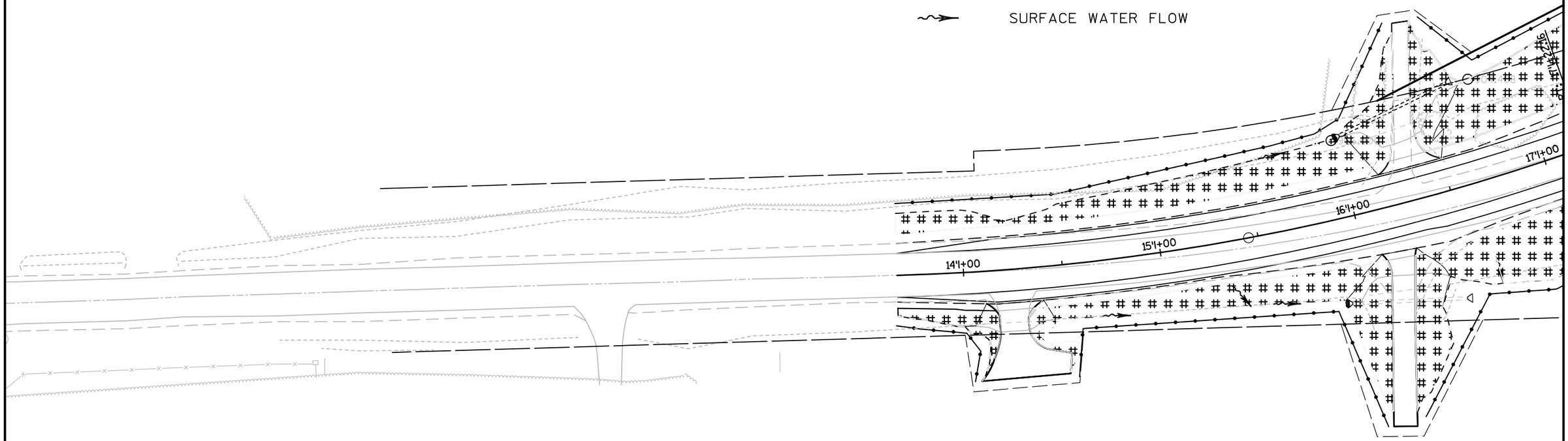
PLOT DATE : 5/15/2017 11:40 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

LEGEND

######	EROSION MAT CLASS I, TYPE B
	SILT FENCE
	RIP RAP
	SLOPE INTERCEPT
CONC	CONCRETE FLUME
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE DITCH CHECK
	SURFACE WATER FLOW

N



PROJECT NO:1021-03-74	HWY:IH 94	COUNTY:EAU CLAIRE	EROSION CONTROL	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\VIEWFRAMEGROUPS\022001-EC.DWG
LAYOUT NAME - 022003-EC

PLOT DATE : 5/15/2017 11:40 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

646'WB+00
646'EB+00
647'WB+00
647'EB+00
648'WB+00
PC: 648'WB+26.89
648'EB+00
649'WB+00
649'EB+00
650'WB+00
650'EB+00
651'WB+00
651'EB+00
652'WB+00
652'EB+00
18'I+00
19'I+00
21'I+00
22'I+00
23'I+00
24'I+00
25'I+00

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- CONC — CONCRETE FLUME
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO:1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	EROSION CONTROL	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\VIEWFRAMEGROUPS\022001-EC.DWG
LAYOUT NAME - 022004-EC

PLOT DATE : 5/15/2017 11:40 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT

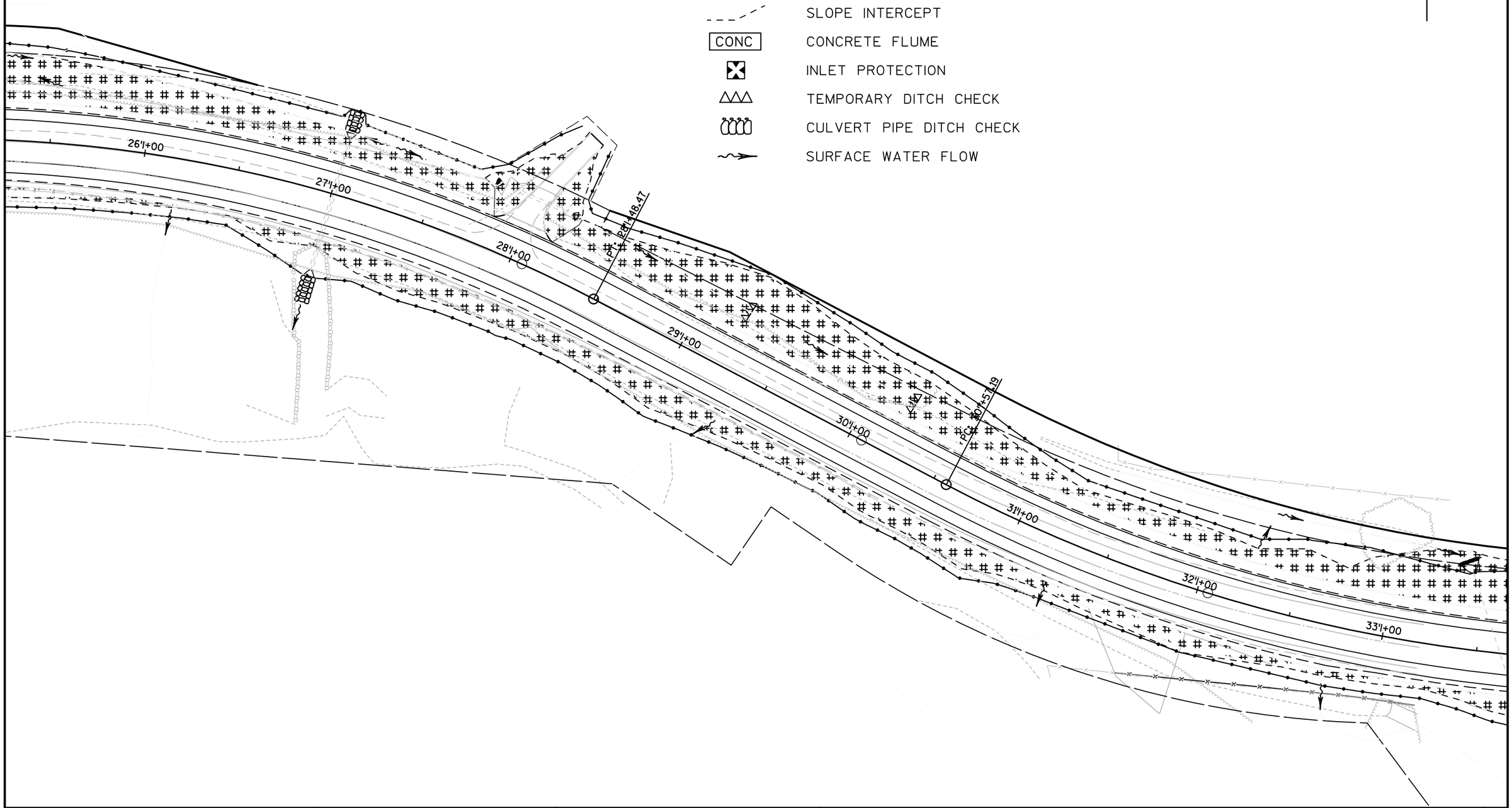
2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- CONC — CONCRETE FLUME
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

N



PROJECT NO:1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	EROSION CONTROL	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\VIEWFRAMEGROUPS\022001-EC.DWG
LAYOUT NAME - 022005-EC

PLOT DATE : 5/15/2017 11:40 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT

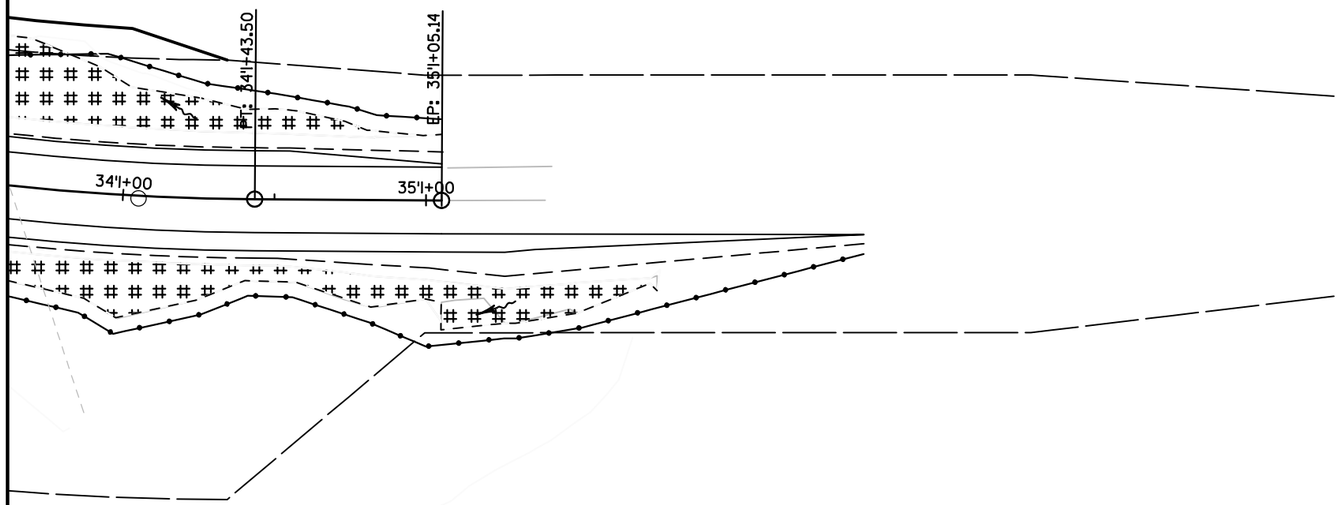
2

2

LEGEND

######	EROSION MAT CLASS I, TYPE B
	SILT FENCE
	RIP RAP
	SLOPE INTERCEPT
CONC	CONCRETE FLUME
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE DITCH CHECK
	SURFACE WATER FLOW

N



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	EROSION CONTROL	SHEET E

2

N

DEAD END
W14-1
30"X30"

DEAD END
REMOVE

SPEED LIMIT 35
R2-1
24"X30"

SPEED LIMIT 35
REMOVE

W3-1
36"X36"

REMOVE

REMOVE

REMOVE

1-1

1-2

1-3

1-4

1-5

11+18.55
-44.23'

12+01.30
-16.00'

13+01.20
-17.60'

14+14.41
-17.61'

16+85.70
-18.07'

12+98.91
17.54'

13+90.06
18.25'

16+58.85
18.03'

SIGN

1-6

1-7

1-8

SPEED LIMIT 45
R2-1
24"X30"

SPEED LIMIT 45
REMOVE

REMOVE

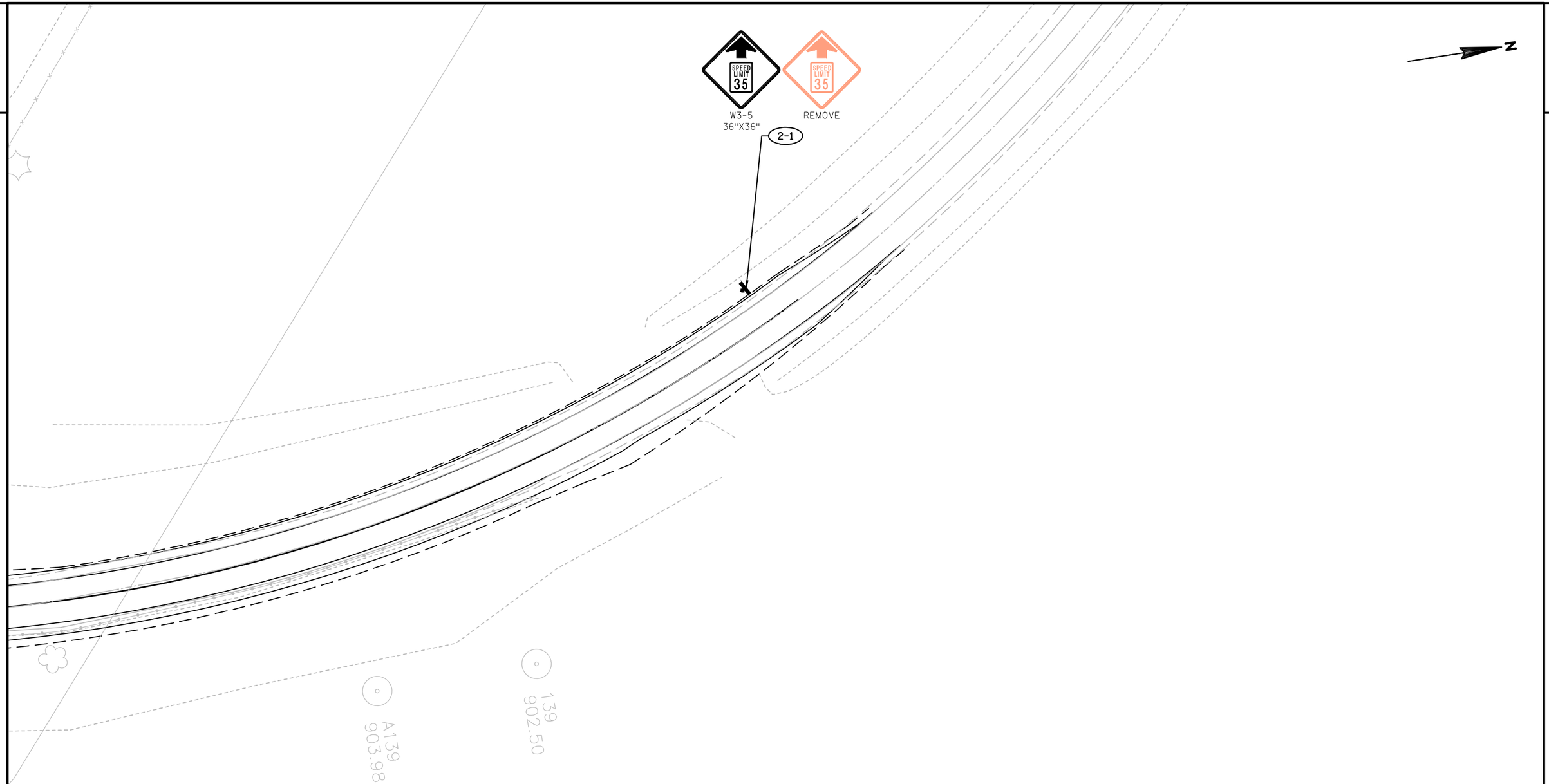
REMOVE

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\VIEWFRAMEGROUPS\023201-PS.DWG
LAYOUT NAME - 023201-PS

PLOT DATE : 5/15/2017 11:51 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



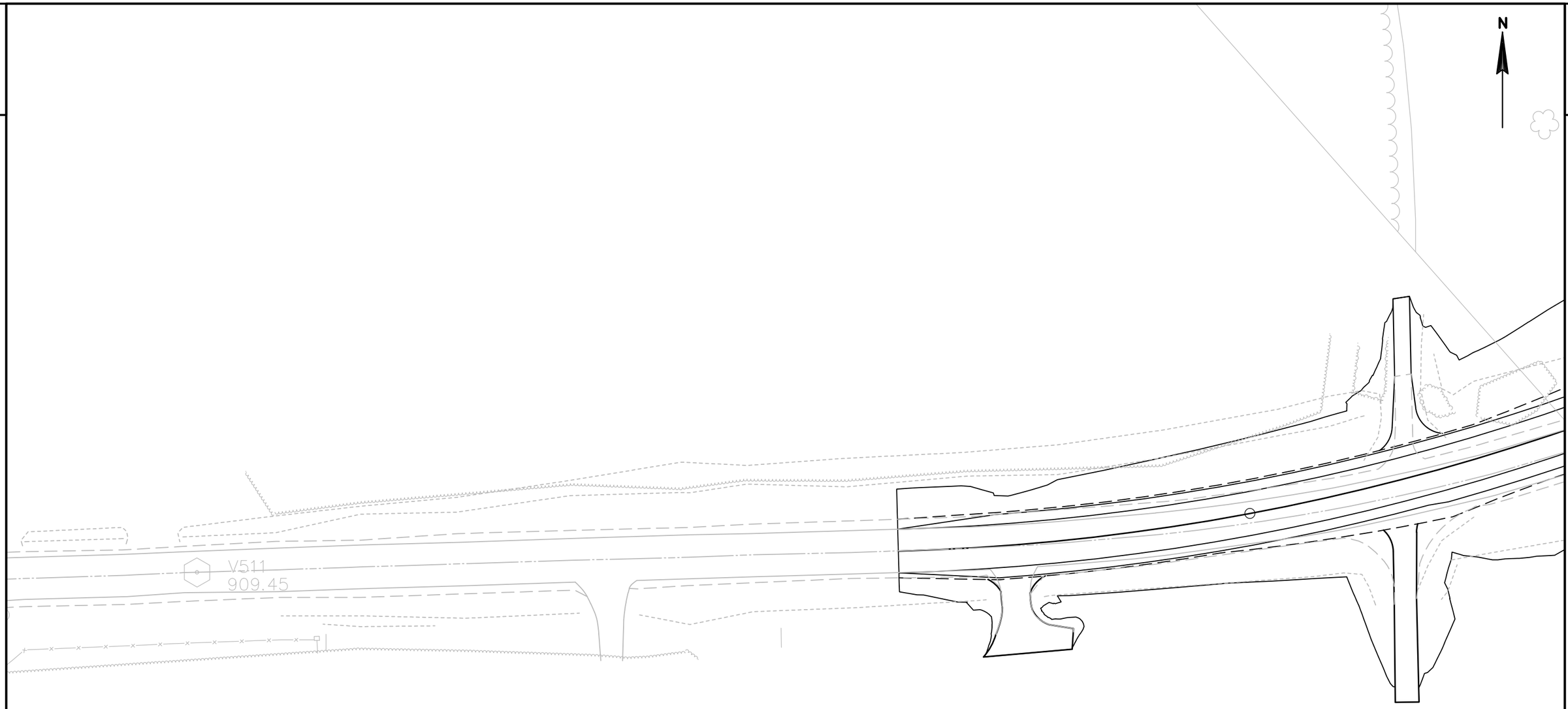
PROJECT NO:1021-03-74	HWY:IH 94	COUNTY:EAU CLAIRE	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\VIEWFRAMEGROUPS\023201-PS.DWG
LAYOUT NAME - 023202-PS

PLOT DATE : 5/15/2017 11:51 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\VIEWFRAMEGROUPS\023201-PS.DWG
LAYOUT NAME - 023203-PS

PLOT DATE : 5/15/2017 11:51 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

SLOWER TRAFFIC KEEP RIGHT
REMOVE
3-6
SLOWER TRAFFIC KEEP RIGHT
R4-3
48"X60"

REMOVE
3-2

W1-6
48"X24"
3-3
REMOVE

24+35.60
-21.35'

21+44.58
-4.86'

21+59.54
27.31'

649+83.48
38.23'

Hwy I
REMOVE
3-7
Hwy I
M1-94
54"X21"

REMOVE
3-5

E1-5
108"_X_30"
EXIT 70
53
Eau Claire
Superior
1 MILE
E1-1A
192"_X_162"

MOVING SIGNS
REMOVING STRUCTURAL STEEL SIGN SUPPORTS
INSTALL NEW POSTS / BASES

REMOVE
3-1

648+63.11
38.30'

18+95.19
3.40'

19+02.75
27.38'

3-8
Hwy I
M1-94
54"X21"
Hwy I
REMOVE

3-4
REMOVE

PROJECT NO:1021-03-74	HWY:IH 94	COUNTY:EAU CLAIRE	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\VIEWFRAMEGROUPS\023201-PS.DWG
LAYOUT NAME - 023204-PS

PLOT DATE : 5/15/2017 11:51 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

W1-6
48"X24"

REMOVE

4-1

27+11.57
21.82'

W1-6
48"X24"

REMOVE

4-2

32+10.47
25.03'

32+36.51
25.02'

4-3

W1-6
48"X24"

REMOVE

V516
916.2

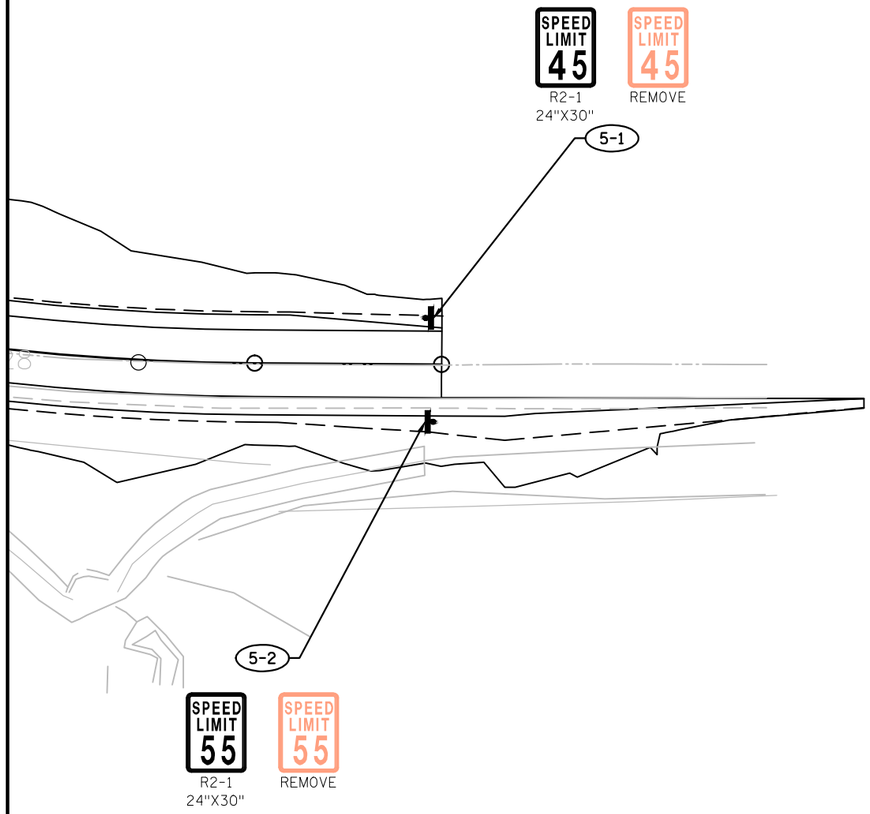
PROJECT NO:1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\VIEWFRAMEGROUPS\023201-PS.DWG
LAYOUT NAME - 023205-PS

PLOT DATE : 5/15/2017 11:51 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N



A117
919.89

117
914.65

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\VIEWFRAMEGROUPS\023201-PS.DWG
LAYOUT NAME - 023206-PS

PLOT DATE : 5/15/2017 11:51 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

LEGEND

- DMS — (EXIST) DYNAMIC MESSAGE SIGN
- PCMS — T.C. SIGNS PORTABLE CHANGEABLE MESSAGE
- SIGN ON MULTIPLE POSTS **
- SIGN ON SINGLE POST
- (EXIST) TYPE I SIGN
- FLAGS. 16" x 16" MIN., ORANGE (INCIDENTAL TO TRAFFIC CONTROL)
- PROPOSED TRAFFIC CONTROL SIGNS
- EXISTING SIGNS TO REMAIN
- ALTERNATE ROUTE
- X# — SIGN GROUP NUMBER

M1-1 36"X36"
ROAD WORK 6 MILES AHEAD
G20-55 84"X24"
E1

M1-1 36"X36"
PERIODIC LANE CLOSURES
WATCH FOR SLOW TRAFFIC
FIXED MESSAGE 108"X60"
E2

* DMS TO BE PROGRAMMED BY WI STATE PATROL AS NEEDED
E3

M04-1 36"X18"
ALTERNATE 94
EXIT 70
53
Eau Claire
3/4 MILE
NEXT EXIT 11 MILES
M1-1 36"X36"
E4

M04-1 36"X18"
ALTERNATE 94
EXIT 70
53
Brackett
Eau Claire
M1-1 36"X36"
E5

S5
EAST M3-2 36"X18"
94 M1-1 36"X36"
ROAD WORK 1 MILE
W20-1-F 48"X48"

SIGN TO BE PLACED ON THE RIGHT SIDE OF THE GOLF ROAD ON RAMP TO S.B. USH 53.

E1 E2 E3 E4 E5
E.B. IH 94 TEMPORARY SIGN LOCATIONS
3½ MILES — ¼ MILE — DMS — ¼ MILE — ¾ MILE

* PCMS TO BE PROGRAMMED BY WI STATE PATROL AS NEEDED

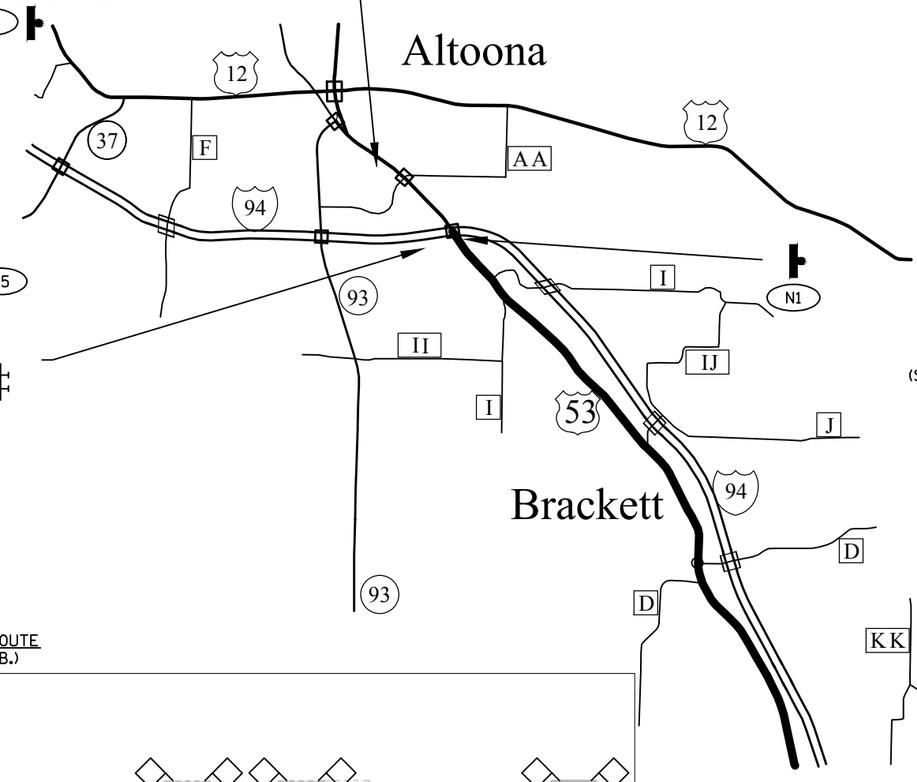
M1-1 36"X36"
ROAD WORK 1 MILE AHEAD
G20-55 84"X24"
S1

S2

EXIT 84A
94 EAST
Madison
Chicago
1/4 MILE
EXIT 25 MPH
S3

EXIT 84A
94 EAST
Madison
Chicago
EXIT 25 MPH
S4

S1 S2 S3 S4
S.B. USH 53 TEMPORARY SIGN LOCATIONS
⅗ MILE — ⅗ MILE PCMS — ¼ MILE
GOLF RD TO S.B. USH 53 RAMP
S5

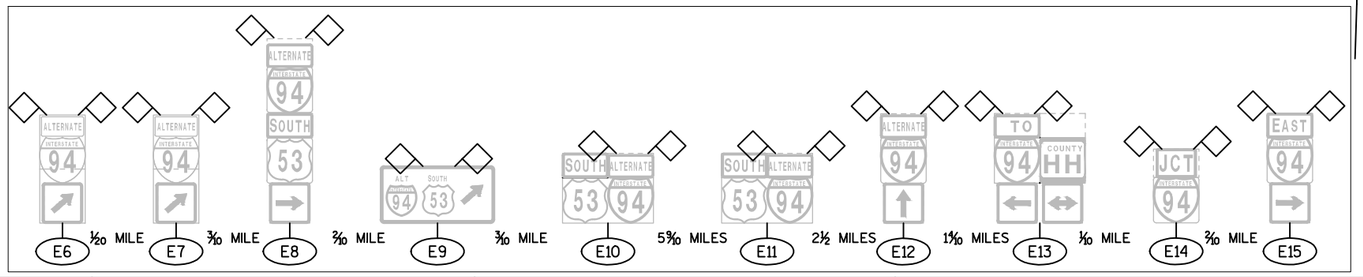


N

N1
ROAD WORK AHEAD
W20-1-A 48"X48"

SIGN TO BE PLACED ON THE N.B. USH 53 ON RAMP TO E.B. IH 94. (SEE SDD'S 15D15-3A & 15D15-3D)

IH 94 EB
ALTERNATE ROUTE
(USH 53 S.B.)



E6 ½₀ MILE E7 ⅗₀ MILE E8 ⅖₀ MILE E9 ⅗₀ MILE E10 5⅗₀ MILES E11 2½ MILES E12 1⅗₀ MILES E13 ½₀ MILE E14 ⅖₀ MILE E15

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	TRAFFIC CONTROL - ADVANCE WARNING / ALTERNATE ROUTE	SHEET	E

2

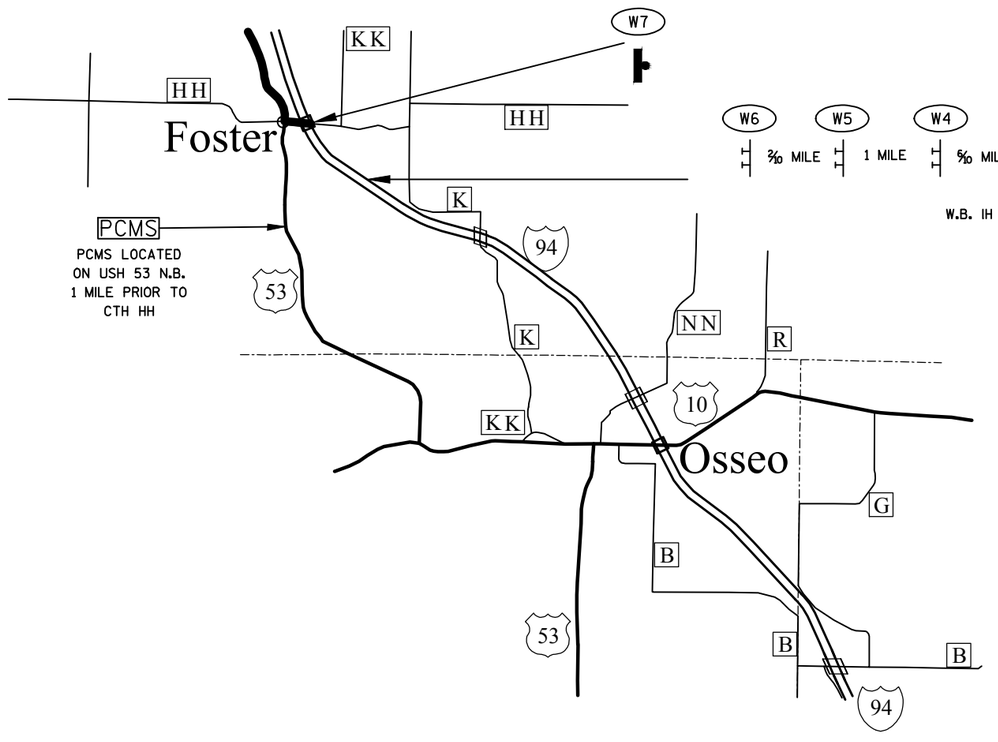
N

LEGEND

DMS	(EXIST) DYNAMIC MESSAGE SIGN	◇ ◇	FLAGS. 16" × 16" MIN., ORANGE (INCIDENTAL TO TRAFFIC CONTROL)
PCMS	T.C. SIGNS PORTABLE CHANGEABLE MESSAGE	94	PROPOSED TRAFFIC CONTROL SIGNS
	SIGN ON MULTIPLE POSTS **	94 53	EXISTING SIGNS TO REMAIN
	SIGN ON SINGLE POST		ALTERNATE ROUTE
	(EXIST) TYPE I SIGN	X#	SIGN GROUP NUMBER

W7 — ROAD WORK AHEAD — W20-1 48"X48"

SIGN TO BE PLACED
ON THE RIGHT SHOULDER OF THE CTH HH
ON RAMP TO W.B. IH 94.



W6 — ⅗ MILE — W5 — 1 MILE — W4 — ⅘ MILE — PCMS W3 — ⅗ MILE — W2 — 1 MILE — W1

W.B. IH 94 TEMPORARY SIGN LOCATIONS

NORTH ALTERNATE 53 94 — W11 — 4½ MILES

NORTH ALTERNATE 53 94 — W10 — ⅗ MILE

ALTERNATE EAST ALTERNATE WEST 94 94 — W9 — ⅘ MILE

ALTERNATE 94 COUNTY HH COUNTY KK — W8 — ⅕ MILE

ALTERNATE 94 — W7 — ⅕₀ MILE

IH 94 WB
ALTERNATE ROUTE
(USH 53 N.B.)

M04-1 36"X18" ALTERNATE 94 M1-1 36"X36" — EXIT 81 — W6

M04-1 36"X18" ALTERNATE 94 M1-1 36"X36" — EXIT 81 — HH KK — Foster — Fall Creek — W5

M04-1 36"X18" ALTERNATE 94 M1-1 36"X36" — EXIT 81 — HH KK — Foster — Fall Creek — 1 MILE — NEXT EXIT 7 MILES — W4

* PCMS TO BE PROGRAMMED BY
WI STATE PATROL AS NEEDED

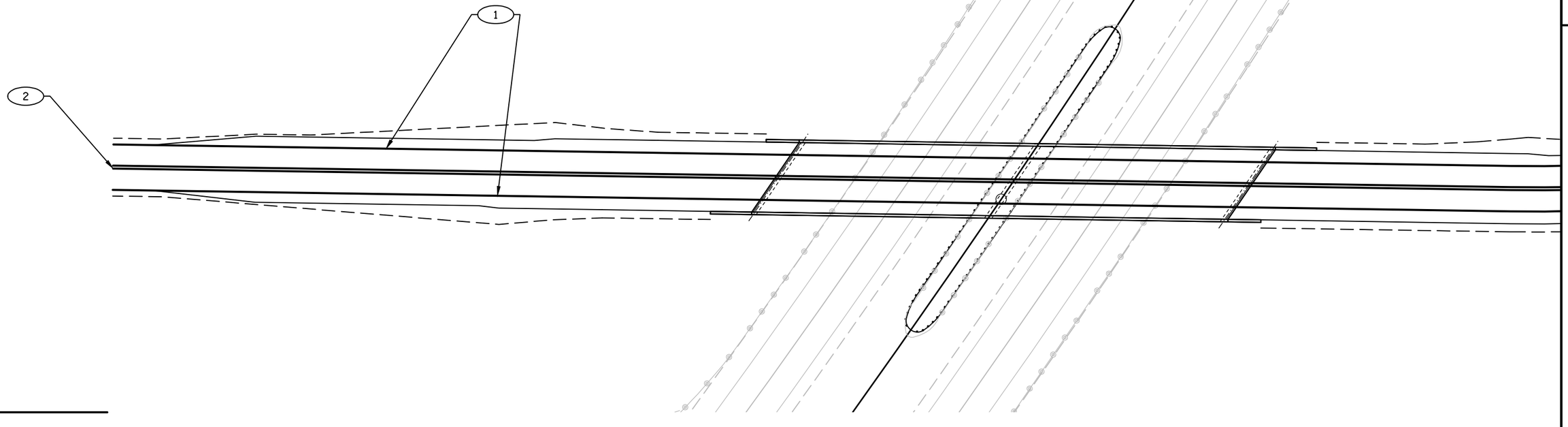
-------- — W3

94 M1-1 36"X36"
PERIODIC LANE CLOSURES
WATCH FOR SLOW TRAFFIC — W2
FIXED MESSAGE 108"X60"

94 M1-1 36"X36"
ROAD WORK 12 MILES AHEAD — W1
G20-55 84"X24"

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	TRAFFIC CONTROL - ADVANCE WARNING / ALTERNATE ROUTE	SHEET	E

2



LEGEND

1 — PAVEMENT MARKING, 4-INCH, EPOXY, WHITE

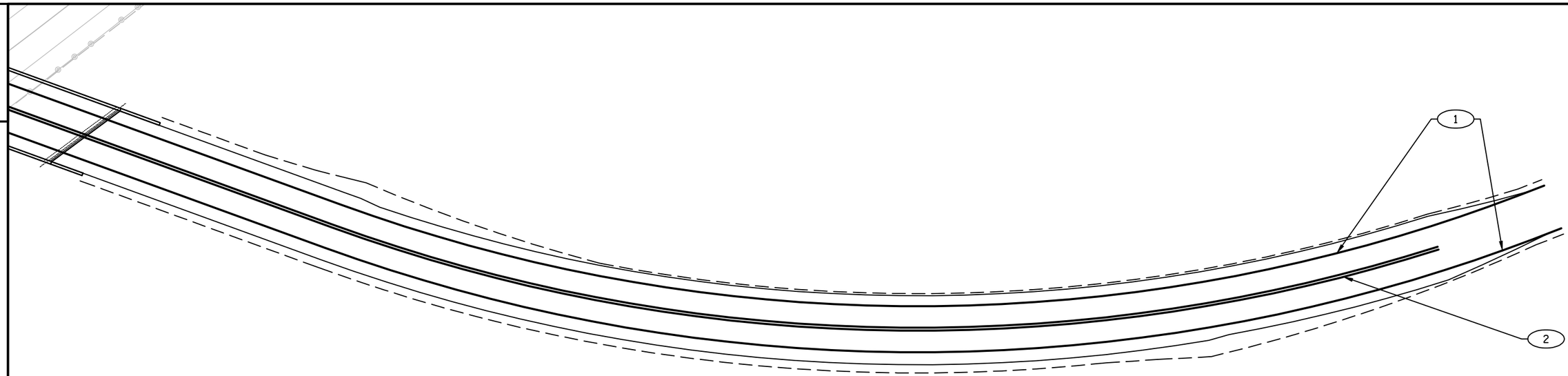
2 — PAVEMENT MARKING, 4-INCH, EPOXY, DOUBLE YELLOW

PROJECT NO:1021-03-74	HWY:IH 94	COUNTY:EAU CLAIRE	PAVEMENT MARKING HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\VIEWFRAMEGROUPS\PAVEMENT MARKING.DWG
LAYOUT NAME - 02011

PLOT DATE : 4/12/2017 7:08 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



LEGEND

1 ——— PAVEMENT MARKING, 4-INCH, EPOXY, WHITE

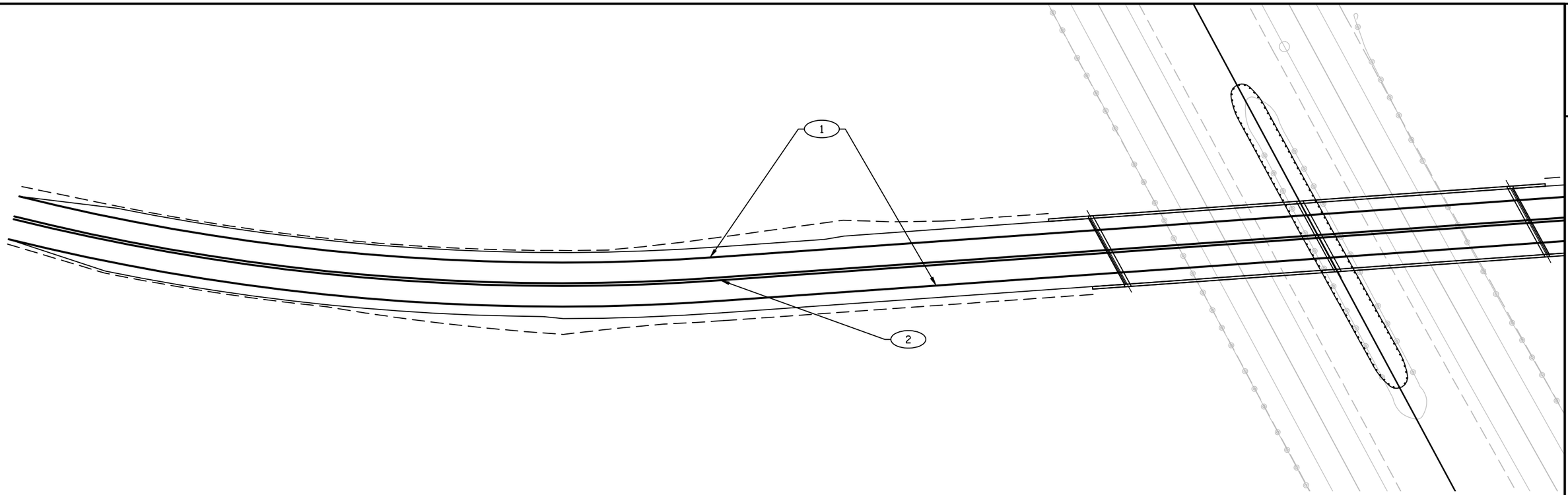
2 ═══ PAVEMENT MARKING, 4-INCH, EPOXY, DOUBLE YELLOW

PROJECT NO:1021-03-74	HWY:IH 94	COUNTY:EAU CLAIRE	PAVEMENT MARKING HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\VIEWFRAMEGROUPS\PAVEMENT MARKING.DWG
LAYOUT NAME - 02012

PLOT DATE : 4/12/2017 7:08 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



2

LEGEND

1 ——— PAVEMENT MARKING, 4-INCH, EPOXY, WHITE

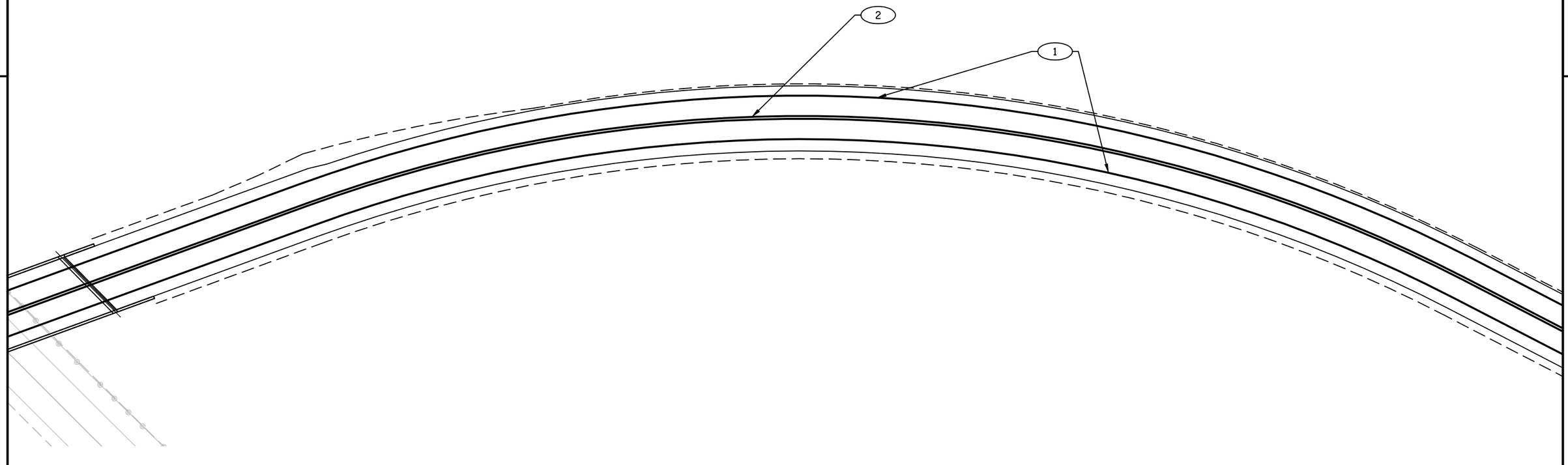
2 ═══ PAVEMENT MARKING, 4-INCH, EPOXY, DOUBLE YELLOW

PROJECT NO:1021-03-74	HWY:IH 94	COUNTY:EAU CLAIRE	PAVEMENT MARKING CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\VIEWFRAMEGROUPS\PAVEMENT MARKING.DWG
LAYOUT NAME - 02013

PLOT DATE : 4/12/2017 7:08 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



LEGEND

1 — PAVEMENT MARKING, 4-INCH, EPOXY, WHITE

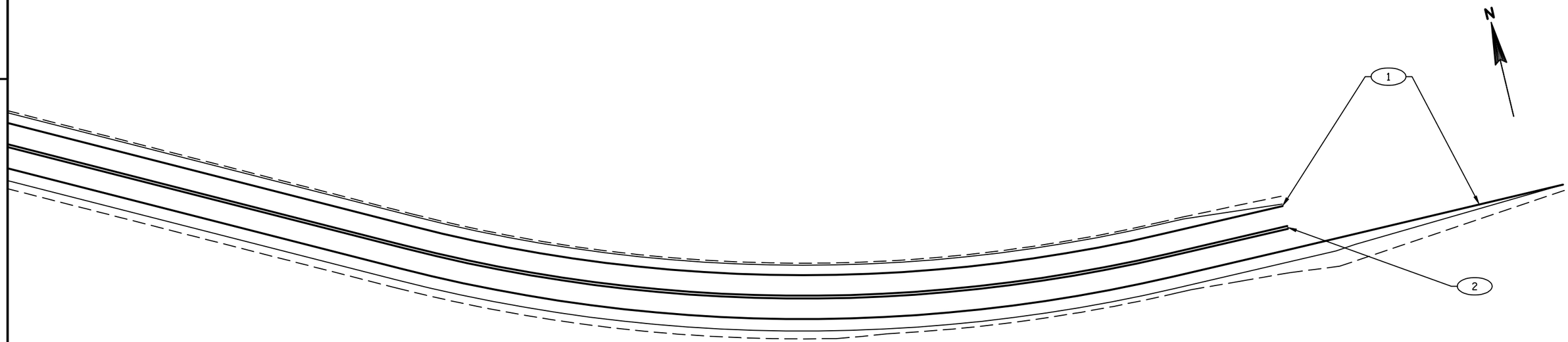
2 — PAVEMENT MARKING, 4-INCH, EPOXY, DOUBLE YELLOW

PROJECT NO:1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PAVEMENT MARKING CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\VIEWFRAMEGROUPS\PAVEMENT MARKING.DWG
LAYOUT NAME - 02014

PLOT DATE : 4/12/2017 7:08 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



2

LEGEND

1 — PAVEMENT MARKING, 4-INCH, EPOXY, WHITE

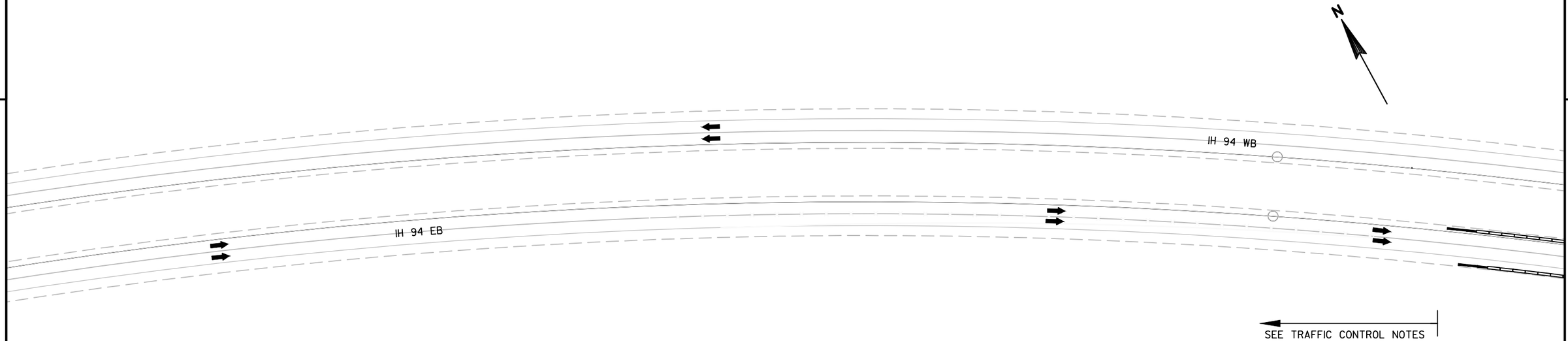
2 — PAVEMENT MARKING, 4-INCH, EPOXY, DOUBLE YELLOW

PROJECT NO:1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PAVEMENT MARKING CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\VIEWFRAMEGROUPS\PAVEMENT MARKING.DWG
LAYOUT NAME - 02015

PLOT DATE : 4/12/2017 7:08 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT

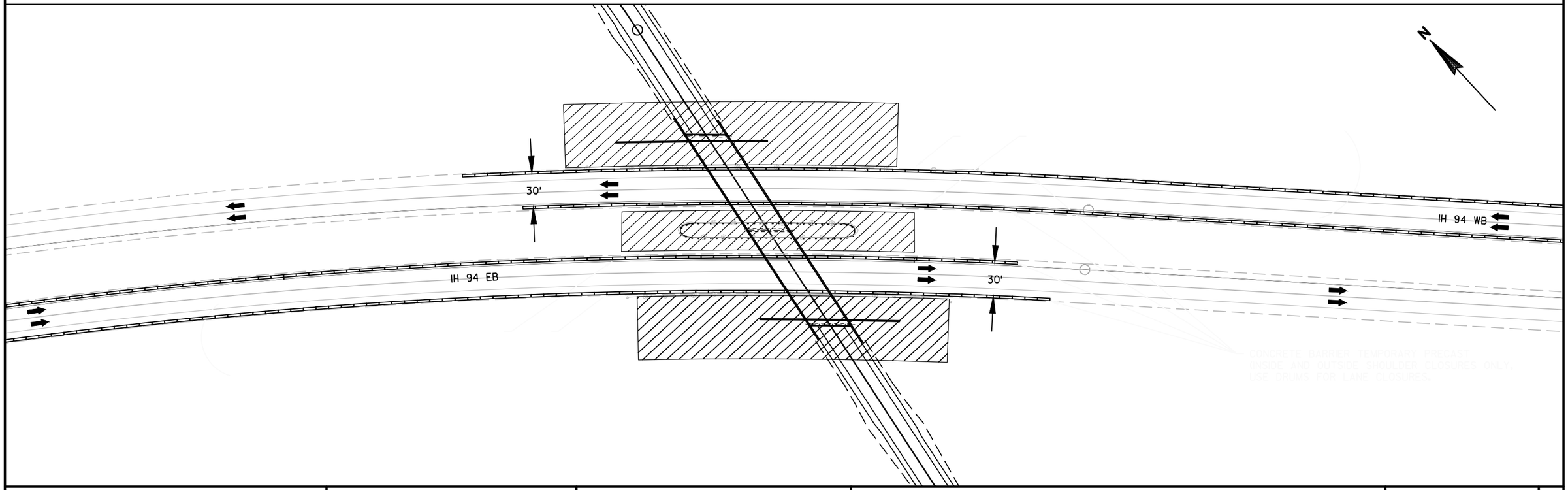
2



LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- CRASH CUSHION
- WORK AREA
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL NOTES:
SEE TRAFFIC CONTROL SDD's:
15D15 SHEET A: PARALLEL ENTRANCE RAMP WITHIN RIGHT LANE CLOSURE (FOR EB RIGHT LANE CLOSURES FOR HOBBS RD STRUCTURE WORK)
15D15 SHEET D: TAPERED ENTRANCE RAMP WITHIN LEFT LANE CLOSURE (FOR EB LEFT LANE CLOSURES FOR HOBBS RD STRUCTURE WORK)
15D12 SHEET B: LANE CLOSURE, SPEED REDUCTION (FOR ALL LANE CLOSURES)
15D27: SHOULDER CLOSURE ON DIVIDED ROADWAY SPEEDS GREATER THAN 40 M.P.H. (WHEN BARRIER IN PLACE WITHOUT A LANE CLOSURE)



PROJECT NO:1021-03-74	HWY: IH 94	COUNTY:EAU CLAIRE	TRAFFIC CONTROL	SHEET	E

2

2

TRAFFIC CONTROL NOTES:
SEE TRAFFIC CONTROL SDD's:
15D15 SHEET A: PARALLEL ENTRANCE RAMP WITHIN RIGHT LANE CLOSURE (FOR EB RIGHT LANE CLOSURES FOR HOBBS RD STRUCTURE WORK)
15D15 SHEET D: TAPERED ENTRANCE RAMP WITHIN LEFT LANE CLOSURE (FOR EB LEFT LANE CLOSURES FOR HOBBS RD STRUCTURE WORK)
15D12 SHEET B: LANE CLOSURE, SPEED REDUCTION (FOR ALL LANE CLOSURES)
15D27: SHOULDER CLOSURE ON DIVIDED ROADWAY SPEEDS GREATER THAN 40 M.P.H. (WHEN BARRIER IN PLACE WITHOUT A LANE CLOSURE)

LEGEND

CONCRETE BARRIER TEMPORARY PRECAST

CRASH CUSHION

WORK AREA

DIRECTION OF TRAFFIC

SEE TRAFFIC CONTROL NOTES

IH 94 WB

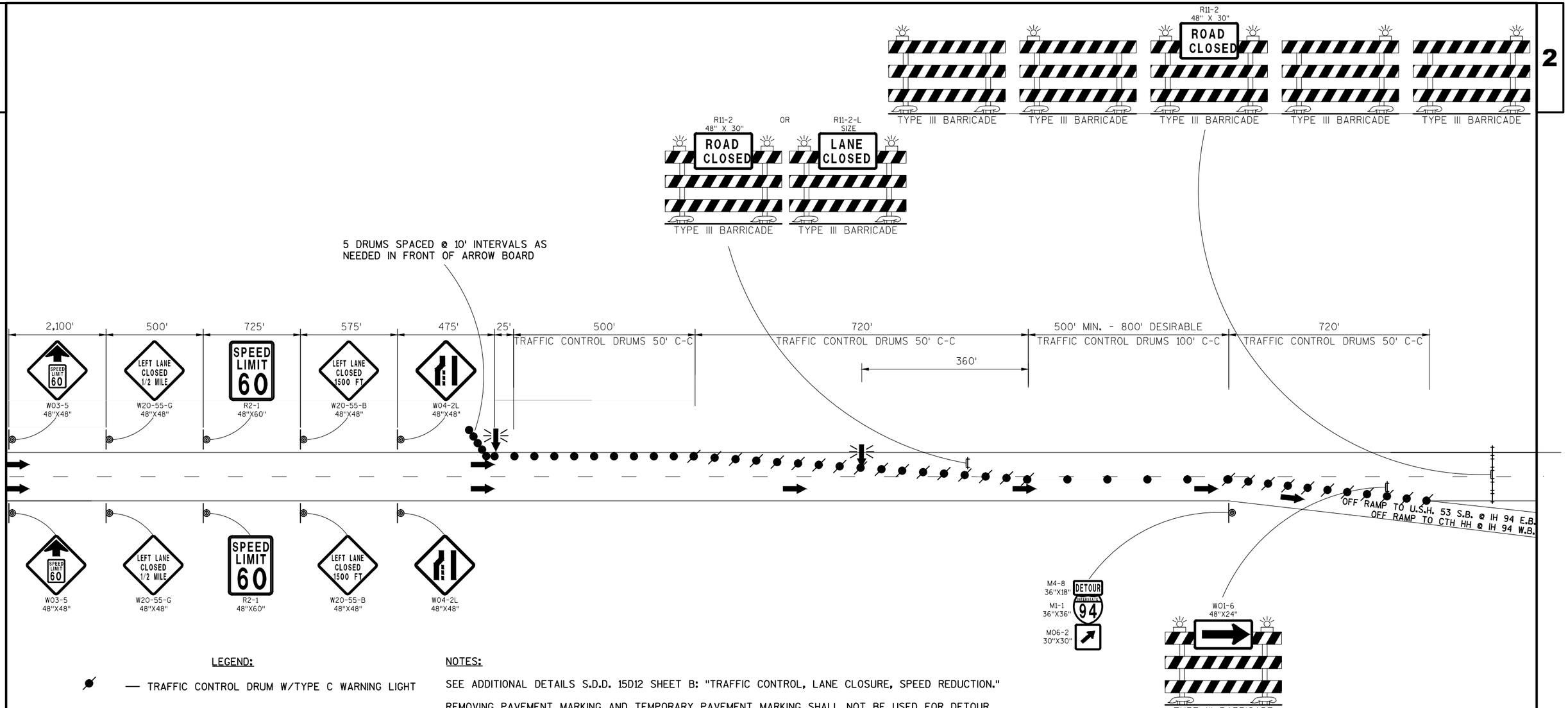
IH 94 WB

IH 94 EB

RECAST
LOSURES ONLY.

PROJECT NO:1021-03-74	HWY: IH 94	COUNTY:EAU CLAIRE	TRAFFIC CONTROL	SHEET	E

2



LEGEND:

- — TRAFFIC CONTROL DRUM W/TYPE C WARNING LIGHT
- — TRAFFIC CONTROL DRUM
- — TYPE III BARACADE WITH SIGN
- — FLASHING ARROW BOARD
- — DIRECTION OF TRAFFIC
- — POST MOUNTED SIGN OR TEMPORARY SIGN SUPPORT

NOTES:

SEE ADDITIONAL DETAILS S.D.D. 15D12 SHEET B: "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION."

REMOVING PAVEMENT MARKING AND TEMPORARY PAVEMENT MARKING SHALL NOT BE USED FOR DETOUR DUE TO THE SHORT DURATION OF THE CLOSURE.

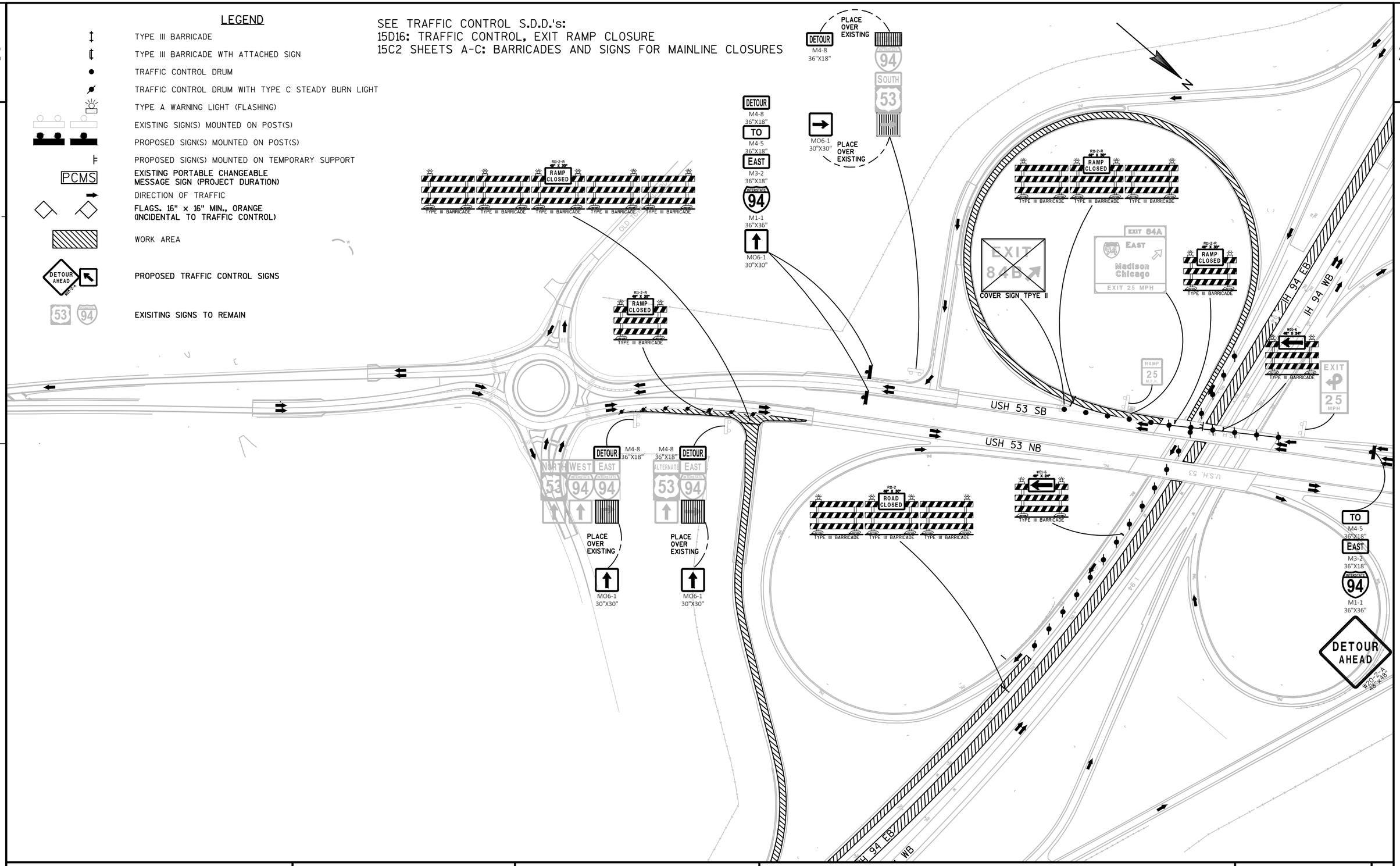
DETAILS SHOWN ON THIS SHEET ARE TO BE USED FOR REMOVING EXISTING GIRDERS AND SETTING PROPOSED GIRDERS ON HOBBS RD AND CTH I BRIDGES.

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: ST. CROIX	TRAFFIC CONTROL - IH 94 CLOSURE / DETOUR PLAN	SHEET	E

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE A WARNING LIGHT (FLASHING)
- EXISTING SIGN(S) MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON TEMPORARY SUPPORT
- PCMS — EXISTING PORTABLE CHANGEABLE MESSAGE SIGN (PROJECT DURATION)
- DIRECTION OF TRAFFIC
- FLAGS. 16" x 16" MIN., ORANGE (INCIDENTAL TO TRAFFIC CONTROL)
- WORK AREA
- PROPOSED TRAFFIC CONTROL SIGNS
- EXISITING SIGNS TO REMAIN

SEE TRAFFIC CONTROL S.D.D.'s:
15D16: TRAFFIC CONTROL, EXIT RAMP CLOSURE
15C2 SHEETS A-C: BARRICADES AND SIGNS FOR MAINLINE CLOSURES

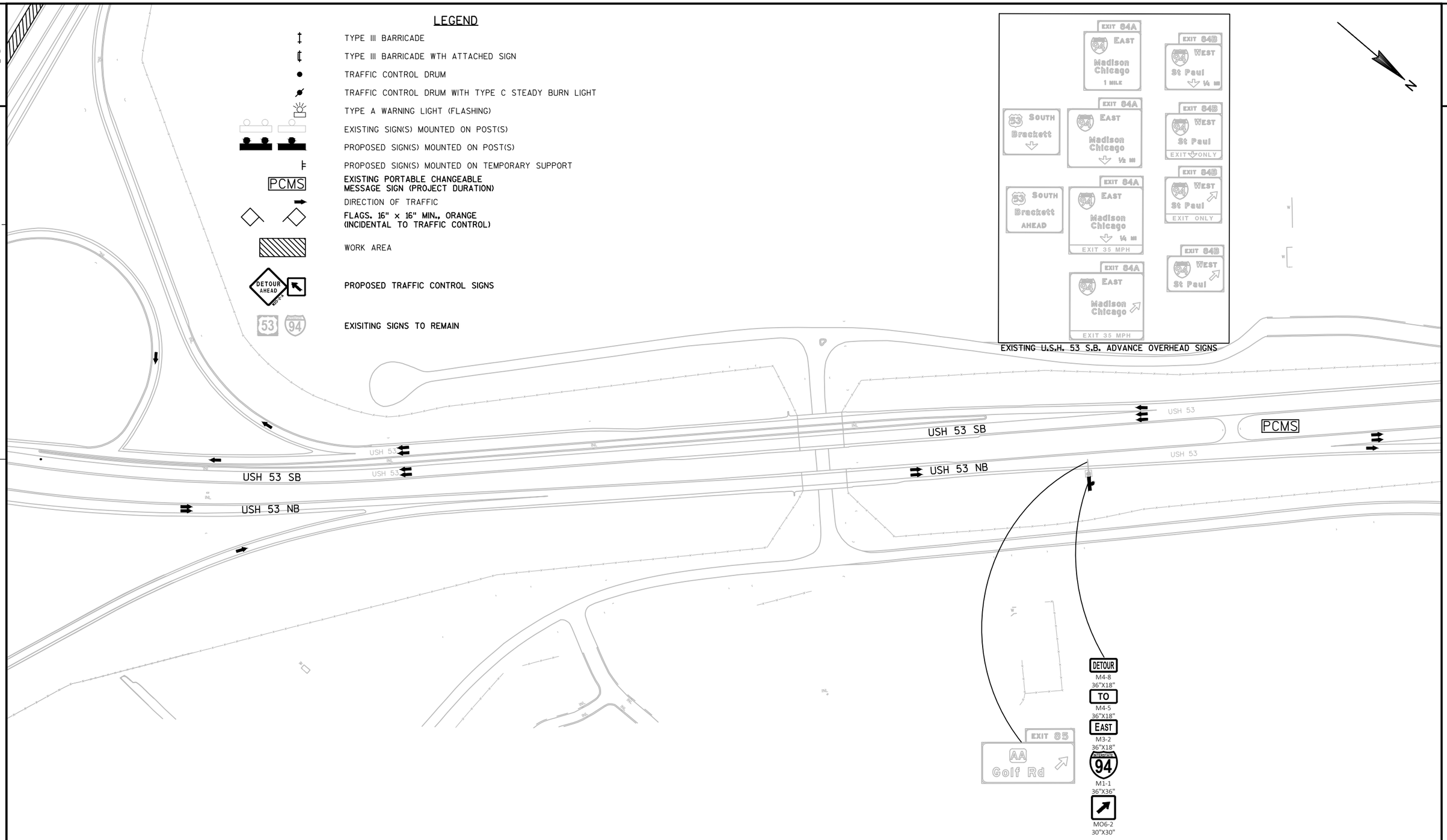


PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	TRAFFIC CONTROL - IH 94 EB FULL CLOSURE / DETOUR PLAN	SHEET	E

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE A WARNING LIGHT (FLASHING)
- EXISTING SIGN(S) MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON TEMPORARY SUPPORT
- PCMS — **EXISTING PORTABLE CHANGEABLE MESSAGE SIGN (PROJECT DURATION)**
- DIRECTION OF TRAFFIC
- **FLAGS. 16" x 16" MIN., ORANGE (INCIDENTAL TO TRAFFIC CONTROL)**
- WORK AREA
- DETOUR AHEAD — **PROPOSED TRAFFIC CONTROL SIGNS**
- 53 / 94 — **EXISITING SIGNS TO REMAIN**

EXISTING U.S.H. 53 S.B. ADVANCE OVERHEAD SIGNS

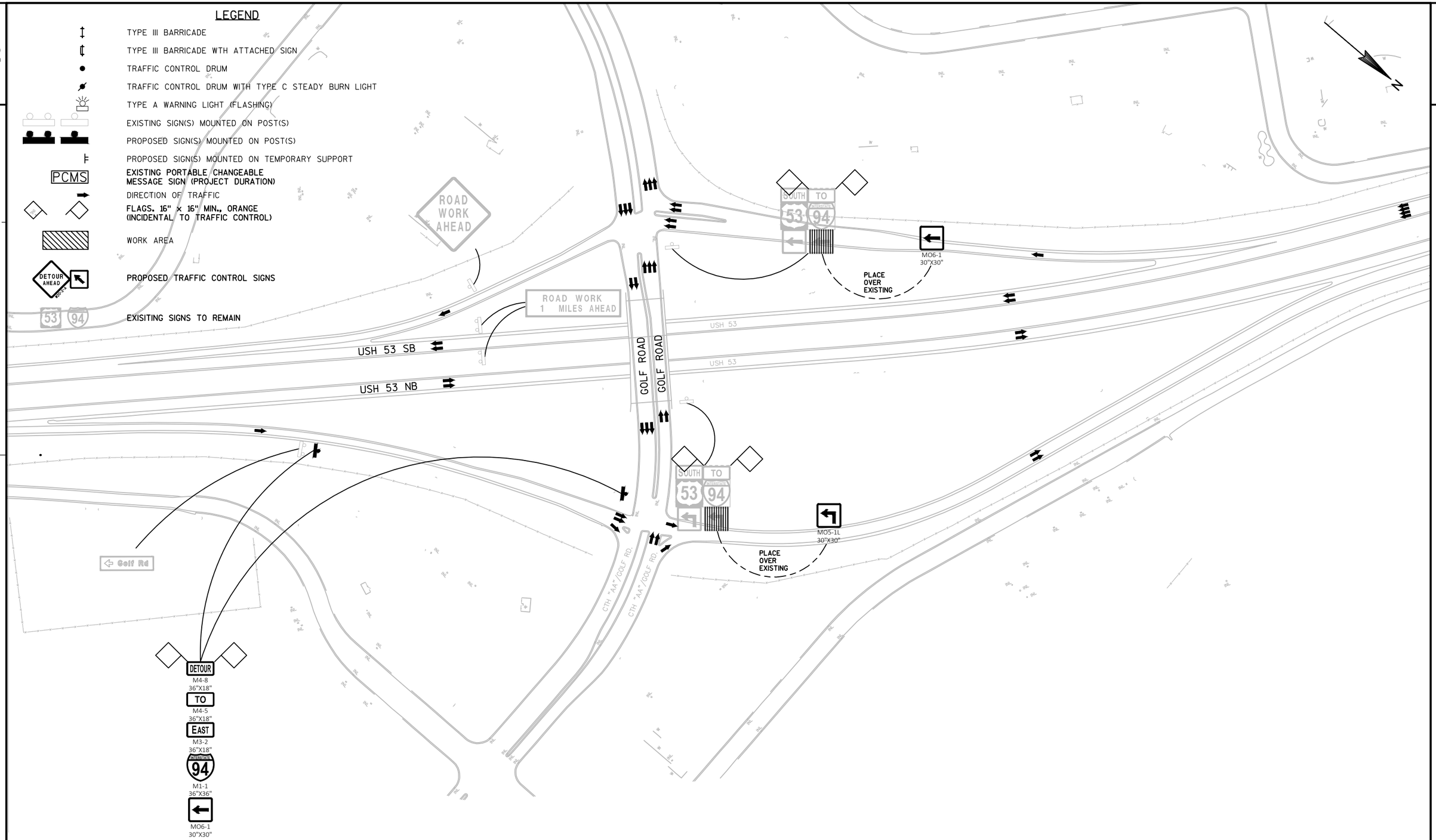


PROJECT NO:1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	TRAFFIC CONTROL - IH 94 EB FULL CLOSURE / DETOUR PLAN	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\027002-DT.DWG PLOT DATE : 5/3/2017 10:27 AM PLOT BY : BUDDEN, LUCAS PLOT NAME : PLOT SCALE : 1 IN:200 FT

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE A WARNING LIGHT (FLASHING)
- EXISTING SIGN(S) MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON TEMPORARY SUPPORT
- PCMS — EXISTING PORTABLE CHANGEABLE MESSAGE SIGN (PROJECT DURATION)
- DIRECTION OF TRAFFIC
- FLAGS, 16" x 16" MIN., ORANGE (INCIDENTAL TO TRAFFIC CONTROL)
- WORK AREA
- PROPOSED TRAFFIC CONTROL SIGNS
- EXISITING SIGNS TO REMAIN



PROJECT NO:1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	TRAFFIC CONTROL - IH 94 EB FULL CLOSURE / DETOUR PLAN	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\027002-DT.DWG PLOT DATE : 5/3/2017 10:27 AM PLOT BY : BUDDEN, LUCAS PLOT NAME : PLOT SCALE : 1 IN:200 FT

CLEARING AND GRUBBING

CATEGORY	STATION	TO	STATION	LOCATION	CLEARING 201.0105 STA	GRUBBING 201.0205 STA	REMARKS
0010	11'H+00	-	15'H+00	LT	4	4	
0010	11'H+00	-	14'H+00	RT	3	3	
0010	16'H+00	-	19'H+00	LT	3	3	
0010	22'H+00	-	23'H+00	LT	1	1	
0010	18'H+00	-	23'H+00	RT	5	5	
0010				CTH I	10	10	
				TOTAL 0010	26	26	

REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 LF	REMARKS
0010	13'H+28	-	14'H+20	LT	92	
0010	13'H+09	-	14'H+02	RT	93	
0010	16'H+77	-	17'H+73	LT	97	
0010	16'H+58	-	21'H+52	RT	493	
0010	615'EB+42	-	617'EB+22	MEDIAN	376	
0010	18'I+07	-	19'I+04	LT	97	
0010	17'I+27	-	19'I+17	RT	190	
0010	21'I+42	-	22'I+42	LT	100	
0010	21'I+55	-	30'I+30	RT	875	
0010	648'EB+41	-	650'EB+23	MEDIAN	376	
				TOTAL 0010	2789	

REMOVING SURFACE DRAINS

CATEGORY	STATION	LOCATION	204.0190 EACH	REMARKS
0010	14'H+10	LT	1	
0010	13'H+93	RT	1	
0010	18'I+96	LT	1	
0010	19'I+08	RT	1	
		TOTAL 0010	4	

REMOVING SMALL PIPE CULVERTS

CATEGORY	STATION	LOCATION	203.0100 EACH	REMARKS
0010	14'H+10	LT	1	Existing Surface Drain
0010	13'H+93	RT	1	Existing Surface Drain
0010	14'I+24	RT	1	PE1
0010	16'I+14	RT	1	PE2
0010	16'I+38	LT	1	PE3
0010	18'I+96	LT	1	Existing Surface Drain
0010	19'I+08	RT	1	Existing Surface Drain
0010	24'I+68	LT	1	PE5
0010	27'I+01	-	1	CROSSING
0010	27'I+97	LT	1	PE6
		TOTAL 0010	10	

REMOVING FENCE

CATEGORY	STATION	TO	STATION	LOCATION	204.0170 LF	REMARKS
0010	14'H+12	-	14'H+35	LT	67	
0010	13'H+39	-	14'H+12	RT	97	
0010	16'H+70	-	17'H+86	LT	138	
0010	16'H+16	-	16'H+45	RT	83	
0010	18'I+44	-	19'I+18	LT	96	
0010	21'I+28	-	21'I+51	LT	62	
0010	25'I+00	-	27'I+74	LT	292	
0010	21'I+41	-	21'I+74	RT	39	
0010	31'I+42	-	34'I+49	RT	332	
				TOTAL 0010	1206	

REMOVING ASPHALTIC SURFACE

CATEGORY	STATION	TO	STATION	204.0110 SY	REMARKS
0010	11'H+00	-	14'H+35.97	858	
0010	16'H+43	-	23'H+17	1755	
0010	13'I+66	-	19'I+32	1383	
0010	21'I+26	-	35'I+05	3379	
0010	14'I+12	-	14'I+50	117	DRIVEWAY
			TOTAL 0010	7492	

REMOVING DELINEATORS AND MARKERS

CATEGORY	LOCATION	204.0180 EACH	REMARKS
0010	IH 94 CULVERTS	16	
0010	CTH I	4	
0010	EB, RT AT HOBBS RD	3	
0010	WB, LT AT HOBBS RD	3	
0010	EB, RT AT CTH I	3	
0010	WB, LT AT CTH I	3	
	TOTAL 0010	32	

REMOVING (01. MASONRY RUBBLE ENDWALLS)

CATEGORY	STATION	LOCATION	204.9060.S.01 EACH	REMARKS
0010	33'I+62	LT	1	
		TOTAL 0010	1	

3

EXCAVATION COMMON

CATEGORY	STATION	TO	STATION	LOCATION	205.0100 CY	REMARKS
0010				HOBBS RD	607	
0010				CTH I	1495	
0010					500	
0010					500	
				TOTAL 0010	3102	

BORROW

CATEGORY	STATION	TO	STATION	LOCATION	208.0100 CY	REMARKS
0010					9428	
0010					13183	
				TOTAL 0010	22611	

3

BASE AGGREGATE DENSE 3/4-INCH

CATEGORY	STATION TO	STATION	LOCATION	305.0110 TON	REMARKS
0010			IH 94 EB @ HOBBS RD	300	
0010			IH 94 WB @ HOBBS RD	300	
0010	11'H+00	14'H+00	LT SHOULDER	28	
0010	11'H+00	14'H+00	RT SHOULDER	33	
0010	16'H+74	23'H+75	LT SHOULDER	66	
0010	16'H+74	23'H+75	RT SHOULDER	101	
0010			IH 94 EB @ CTH I	300	
0010			IH 94 WB @ CTH I	300	
0010	13'I+66	18'I+96	LT SHOULDER	56	
0010	13'I+66	18'I+96	RT SHOULDER	65	
0010	21'I+48	35'I+05	LT SHOULDER	103	
0010	21'I+48	36'I+45	RT SHOULDER	196	
			TOTAL 0010	1848	

BASE AGGREGATE DENSE 1 1/4-INCH

CATEGORY	STATION TO	STATION	LOCATION	305.0120 TON	REMARKS
0010	11'H+00	14'H+00	MAINLINE	367	
0010	16'H+74	23'H+17	MAINLINE	786	
0010	11'H+19	14'H+00	LT SHOULDER	166	
0010	11'H+19	14'H+00	RT SHOULDER	166	
0010	16'H+74	23'H+68	LT SHOULDER	444	
0010	16'H+74	23'H+69	RT SHOULDER	444	
0010	13'I+66	18'I+96	MAINLINE	648	
0010	21'I+48	35'I+05	MAINLINE	1659	
0010	13'I+66	18'I+96	LT SHOULDER	307	
0010	13'I+66	18'I+96	RT SHOULDER	307	
0010	21'I+48	35'I+05	LT SHOULDER	811	
0010	21'I+48	36'I+39	RT SHOULDER	811	
0010	-	-	CTH I Driveways	250	
			TOTAL 0010	7166	

CONCRETE PAVEMENT 6-INCH

CATEGORY	STATION TO	STATION	LOCATION	415.0060 SY	REMARKS
0010	14'H+00	14'H+29	LT	21	
0010	14'H+00	14'H+15	RT	9	
0010	16'H+59	16'H+74	LT	9	
0010	16'H+44	16'H+74	RT	21	
0010	18'I+96	19'I+11	LT	9	
0010	18'I+96	19'I+21	RT	18	
0010	21'I+23	21'I+48	LT	18	
0010	21'I+33	21'I+48	RT	9	
			TOTAL 0010	114	

CONCRETE PAVEMENT APPROACH SLAB

CATEGORY	STATION TO	STATION	LOCATION	415.0410 SY	REMARKS
0010	14'H+00	14'H+29	LT	55	SEE S.D.D.
0010	16'H+44	16'H+74	LT	55	SEE S.D.D.
0010	18'I+96	19'I+21	RT	49	SEE S.D.D.
0010	21'I+23	21'I+48	RT	49	SEE S.D.D.
			TOTAL 0010	208	

CONCRETE SURFACE DRAINS

CATEGORY	LOCATION	416.1010 CY	REMARKS
0010	B-18-210 WING 1	3	SEE S.D.D.
0010	B-18-210 WING 2	3	SEE S.D.D.
0010	B-18-232 WING 1	3	SEE S.D.D.
0010	B-18-232 WING 4	3	SEE S.D.D.
	TOTAL 0010	12	

ASPHALT PAVING

CATEGORY	STATION TO	STATION	LOCATION	TACK COAT 455.0605 GAL	ASPHALTIC SURFACE 465.0105 TON	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 465.0120 TON	REMARKS
0010	11'H+00	14'H+00	MAINLINE	37	185	-	
0010	16'H+74	23'H+17	MAINLINE	79	396	-	
0010	11'H+19	14'H+00	LT SHOULDER	8	39	-	
0010	11'H+19	14'H+00	RT SHOULDER	8	39	-	
0010	16'H+74	23'H+68	LT SHOULDER	19	96	-	
0010	16'H+74	23'H+69	RT SHOULDER	22	110	-	
0010	13'I+66	18'I+96	MAINLINE	65	327	-	
0010	21'I+48	35'I+05	MAINLINE	166	837	-	
0010	13'I+66	18'I+96	LT SHOULDER	15	74	-	
0010	13'I+66	18'I+96	RT SHOULDER	16	79	-	
0010	21'I+48	35'I+05	LT SHOULDER	38	191	-	
0010	21'I+48	36'I+39	RT SHOULDER	48	241	-	
0010	-	-	CTH I DRIVEWAY	-	-	20	
			TOTAL 0010	521	2614	20	

CATEGORY	STATION	LOCATION	APRON ENDWALLS FOR CULVERT PIPE 18-INCH 520.1018 EACH	APRON ENDWALLS FOR CULVERT PIPE 24-INCH 520.1024 EACH	CULVERT PIPE CLASS III-A NON-METAL 18-INCH 520.3418 LF	CULVERT PIPE CLASS III-A NON-METAL 24-INCH 520.3424 LF	APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH 521.1018 EACH	CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH 522.0124 LF	CULVERT PIPE REINFORCED CONCRETE CLASS III 36-INCH 522.0136 LF	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH 522.1024 EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH 522.1036 EACH	CULVERT PIPE CORRUGATED STEEL ALUMINUM COATED 18-INCH 529.0118 LF	(INFO ONLY) JOINT TIES FOR CONCRETE PIPE EACH	REMARKS
0010	614'WB+83	49.5' LT	-	-	-	-	-	-	8	-	1	-	4	
0010	614'WB+83	55' LT	-	-	-	-	-	-	8	-	1	-	4	
0010	648'EB+23	46' RT	-	-	-	-	-	16	-	1	-	-	6	
0010	649'WB+09	47.5' LT	-	-	-	-	-	28	-	1	-	-	10	
0010	16'I+18	RT, PE2	2	-	58	-	-	-	-	-	-	-	-	
0010	16'I+34	LT, PE3	2	-	60	-	-	-	-	-	-	-	-	
0010	24'I+69	LT, PE5	-	2	-	60	-	-	-	-	-	-	-	
0010	27'I+01	CROSSING	-	2	-	72	-	-	-	-	-	-	-	
0010	28'I+01	LT, PE6	-	-	-	-	2	-	-	-	-	40	-	MIN. THICKNESS = 0.064"
0010	33'I+44	LT	-	-	-	-	-	-	-	-	-	-	-	
		TOTAL 0010	4	4	118	132	2	44	16	2	2	40	24	

ASPHALTIC SHOULDER RUMBLE STRIPS

CATEGORY	STATION	TO	STATION	LOCATION	465.0400 LF	REMARKS
0010	11'H+69	-	14'H+00	LT	231	
0010	11'H+69	-	14'H+00	RT	231	
0010	16'H+74	-	23'H+17	LT	643	
0010	16'H+74	-	23'H+17	RT	643	
0010	14'I+16	-	18'I+96	LT	480	
0010	14'I+16	-	18'I+96	RT	480	
0010	21'I+48	-	34'I+55	LT	1308	
0010	21'I+48	-	35'I+36	RT	1389	
				TOTAL 0010	5405	

CONCRETE BARRIER TEMPORARY

CATEGORY	STATION	TO	STATION	LOCATION	CONCRETE BARRIER TEMPORARY PRECAST DELIVERED 603.8000 LF	CONCRETE BARRIER TEMPORARY PRECAST INSTALLED 603.8125 LF	REMARKS
0010	607'EB+84	-	618'EB+84	LT AT HOBBS RD	1101	1101	
0010	607'EB+99	-	619'EB+19	RT AT HOBBS RD	1114	1114	
0010	613'WB+21	-	624'WB+69	LT AT HOBBS RD	1152	1152	
0010	613'WB+81	-	624'WB+81	RT AT HOBBS RD	1101	1101	
0010	640'EB+73	-	651'EB+99	LT AT CTH I	1127	1127	
0010	639'EB+25	-	651'EB+28	RT AT CTH I	1204	1204	
0010	647'WB+25	-	658'WB+92	LT AT CTH I	1165	1165	
0010	646'WB+73	-	657'WB+86	RT AT CTH I	1114	1114	
				TOTAL 0010	9078	9078	

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RIPRAP AND GEOTEXTILE

CATEGORY	STATION	LOCATION	RIPRAP MEDIUM 606.0200 CY	GEOTEXTILE FABRIC TYPE HR 645.0120 SY	REMARKS
0010	14'H+06	LT	12	32	SURFACE DRAIN
0010	13'H+80	RT	15	40	SURFACE DRAIN
0010	18'I+78	LT	14	37	SURFACE DRAIN
0010	21'I+47	LT	11	30	SURFACE DRAIN
0010	27'I+01	LT & RT	7	33	ENDWALLS
		TOTAL 0010	59	172	

MGS GUARDRAIL SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	MGS GUARDRAIL 3 614.2300 LF	MGS GUARDRAIL 3 K 614.2330 LF	MGS THRIE BEAM TRANSITION 614.2500 LF	MGS GUARDRAIL TERMINAL EAT 614.2610 EACH	REMARKS
0010	13'H+14	-	14'H+17	LT	13	-	39.4	1	SEE S.D.D.
0010	12'H+88	-	13'H+90	RT	13	-	39.4	1	SEE S.D.D.
0010	16'H+84	-	17'H+86	LT	13	-	39.4	1	SEE S.D.D.
0010	16'H+57	-	22'H+01	RT	451	-	39.4	1	SEE S.D.D.
0010	17'I+85	-	18'I+88	LT	13	-	39.4	1	SEE S.D.D.
0010	16'I+44	-	19'I+07	RT	171	-	39.4	1	SEE S.D.D.
0010	21'I+37	-	22'I+51	LT	25	-	39.4	1	SEE S.D.D.
0010	21'I+56	-	32'I+75	RT	1072	-	39.4	-	SEE S.D.D.
0010	32'I+75	-	34'I+76	RT	-	201	-	-	SEE S.D.D.
0010	34'I+76	-	35'I+21	RT	-	-	-	1	SEE S.D.D.
				TOTAL 0010	1769	201	315.2	8	

STEEL THRIE BEAM

CATEGORY	STATION	TO	STATION	LOCATION	STEEL THRIE BEAM BULLNOSE TERMINAL 614.0220 EACH	STEEL THRIE BEAM 614.0230 LF	REMARKS
0010	615'EB+45	-	617'EB+21	MEDIAN	2	140	SEE S.D.D.
0010	648'EB+69	-	650'EB+40	MEDIAN	2	140	SEE S.D.D.
				TOTAL 0010	4	280	

FENCE WOVEN WIRE (01. 4-FT)

CATEGORY	STATION	TO	STATION	LOCATION	616.0100 LF	REMARKS
0010	14'H+12	-	14'H+12	LT	60	
0010	13'H+39	-	13'H+90	RT	90	
0010	16'H+84	-	17'H+86	LT	130	
0010	16'H+16	-	16'H+57	RT	90	
0010	18'I+44	-	18'I+88	LT	75	
0010	18'I+86	-	19'I+07	RT	60	
0010	21'I+37	-	21'I+37	LT	60	
0010	21'I+56	-	22'I+53	RT	125	
0010	31'I+74	-	33'I+22	RT	160	
				TOTAL 0010	850	

CRASH CUSHIONS TEMPORARY

CATEGORY	LOCATION	614.0905 EACH	REMARKS
0010	HOBBS RD & IH 94	4	
0010	CTH I & IH 94	4	
	TOTAL 0010	8	

WATER

CATEGORY	LOCATION	624.0100 MGAL	REMARKS
0010	PROJECT	156	BASE AGGREGATE
0010	PROJECT	156	DUST CONTROL
	TOTAL 0010	312	

SALVAGED TOPSOIL, MULCHING, EROSION MAT, FERTILIZING, & SEEDING

CATEGORY	STATION	TO	STATION	LOCATION	SALVAGED TOPSOIL 625.0500 SY	MULCHING 627.0200 SY	EROSION MAT CLASS I TYPE B 628.2004 SY	FERTILIZER TYPE B 629.0210 CWT	SEEDING MIXTURE NO. 30 630.0130 LB	SEEDING TEMPORARY 630.0200 LB	SEEDING BORROW PIT 630.0300 LB	REMARKS
0010	11'H+41	-	14'H+17	LT	750	-	750	0.5	14	21	-	
0010	11'H+00	-	13'H+90	RT	910	-	910	0.6	17	25	-	
0010	16'H+84	-	23'H+17	LT	2470	-	2470	1.6	45	67	-	
0010	16'H+57	-	23'H+17	RT	2770	-	2770	1.7	50	75	-	
0010	613'EB+34	-	619'EB+54	MEDIAN	3440	-	3440	2.2	62	93	-	
0010	13'I+66	-	18'I+88	LT	1610	-	1610	1.0	29	44	-	
0010	13'I+66	-	19'I+07	RT	1140	-	1140	0.7	21	31	-	
0010	21'I+37	-	35'I+05	LT	4320	-	4320	2.7	78	117	-	
0010	21'I+56	-	36'I+44	RT	1440	-	1440	0.9	26	39	-	
0010	645'EB+64	-	653'EB+66	MEDIAN	4460	-	4460	2.8	81	121	-	
0010	-		-	BORROW PIT	-	6790	-	4.3	-	184	92	
0010	-		-	UNDISTRIBUTED	-	1700	-	5.0	105	204	23	
				TOTAL 0010	23310	8490	23310	24.0	528	1021	115	

SILT FENCE

CATEGORY	STATION	TO	STATION	LOCATION	SILT FENCE 628.1504 LF	SILT FENCE MAINTENANCE 628.1520 LF	REMARKS
0010	11'H+00	-	14'H+72	LT	342	171	
0010	11'H+00	-	13'H+89	RT	300	150	
0010	17'H+05	-	23'H+75	LT	655	328	
0010	16'H+02	-	23'H+75	RT	825	413	
0010	13'I+66	-	16'I+39	LT	286	143	
0010	16'I+59	-	18'I+91	LT	256	128	
0010	13'I+66	-	14'I+02	RT	61	31	
0010	14'I+53	-	15'I+95	RT	229	115	
0010	16'I+11	-	19'I+51	RT	416	208	
0010	20'I+89	-	22'I+95	LT	270	135	
0010	23'I+11	-	24'I+60	LT	271	136	
0010	24'I+76	-	28'I+06	LT	414	207	
0010	28'I+23	-	35'I+05	LT	706	353	
0010	21'I+55	-	36'I+45	RT	1560	780	
0010	615'EB+24	-	618'EB+66	RT	342	171	
0010	613'WB+76	-	617'WB+28	LT	352	176	
0010	647'EB+09	-	650'EB+44	RT	335	168	
0010	647'WB+82	-	651'WB+39	LT	358	179	
				TOTAL 0010	7978	3989	

INLET PROTECTION TYPE A

CATEGORY	STATION	LOCATION	628.7005 EACH	REMARKS
0010	618'EB+01	IH 94 MEDIAN @ HOBBS RD	1	
0010	647'EB+15	IH 94 MEDIAN @ CTH I	1	
0010	651'EB+50	IH 94 MEDIAN @ CTH I	1	
		TOTAL 0010	3	

TEMPORARY DITCH CHECKS

CATEGORY	STATION	LOCATION	628.7504 LF	REMARKS
0010	29'I+25	LT	12	
0010	30'I+25	LT	12	
0010	617'EB+71	LT	12	
0010	615'EB+07	RT	12	
0010	615'EB+74	RT	12	
0010	613'WB+85	LT	12	
0010	614'WB+35	LT	12	
0010	650'EB+28	LT	12	
0010	650'EB+71	LT	12	
0010	649'EB+71	RT	12	
0010	650'EB+39	RT	12	
0010	650'WB+54	LT	12	
0010		UNDISTRIBUTED	36	
		TOTAL 0010	180	

CULVERT PIPE CHECKS

CATEGORY	STATION	LOCATION	628.7555 EACH	REMARKS
0010	617'EB+76	RT	5	30" CONCRETE
0010	616'WB+33	LT	7	36" CONCRETE
0010	616'WB+33	LT	7	36" CONCRETE
0010	15'I+99	LT	2	18"
0010	15'I+87	RT	2	18"
0010	24'I+38	LT	3	24"
0010	27'I+01	LT	3	24"
0010	27'I+79	LT	2	18"
0010	33'I+40	LT	10	48"
0010	648'EB+09	RT	3	24" CONCRETE
0010	648'WB+82	LT	3	24" CONCRETE
		TOTAL 0010	47	

DELINEATORS

CATEGORY	LOCATION	DELINEATOR POSTS STEEL 633.0100 EACH	DELINEATOR REFLECTORS 633.0500 EACH	REMARKS
0010	EB, RT AT HOBBS RD	3	3	
0010	WB, LT AT HOBBS RD	3	3	
0010	EB, RT AT CTH I	3	3	
0010	WB, LT AT CTH I	3	3	
	TOTAL 0010	12	12	

SIGNS TYPE I

CATEGORY	STATION	LOCATION	SIGN SUPPORTS STRUCTURAL STEEL HS 635.0200 LB	SIGN SUPPORTS CONCRETE MASONRY 636.0100 CY	SIGN SUPPORTS STEEL REINFORCEMENT 636.0500 LB	MOVING SIGNS TYPE I 638.2101 EACH	REMOVING STRUCTURAL STEEL SIGN SUPPORTS 638.3100 EACH	REMARKS
0010	650'WB+44	LT	-	-	-	1	1	OLD LOCATION
0010	652'WB+00	LT	902	1.6	98	-	-	APPROXIMATE NEW LOCATION
		TOTAL 0010	902	1.6	98	1	1	

MARKERS CULVERT END

CATEGORY	STATION	LOCATION	633.5200 EACH	REMARKS
0010	615'EB+00	MEDIAN	1	
0010	616'EB+07	RT	1	
0010	617+77'EB	RT	1	
0010	614'WB+83	LT	1	2 PIPES
0010	616'WB+32	LT	1	2 PIPES
0010	618'EB+01	MEDIAN	1	
0010	647'EB+13	MEDIAN	1	
0010	648'EB+00	MEDIAN	1	
0010	648'EB+02	RT	1	
0010	648'EB+09	RT	1	
0010	649'EB+60	RT	1	
0010	650'EB+75	RT	1	
0010	650'EB+75	MEDIAN	1	
0010	651'EB+50	MEDIAN	1	
0010	648'WB+82	LT	1	
0010	650'WB+50	LT	1	
0010	27'I+01	LT, RT	2	
0010	33'I+43	LT	1	
0010	33'I+92	RT	1	
		TOTAL 0010	20	

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PERMANENT SIGNING

APPROX. STATION LOCATION	SIGN GROUP NUMBER	SIGN CODE	SIGN MESSAGE	SIGN SIZE W x H (INCHES)	637.2210 SIGNS TYPE II REFLECTIVE H	637.2230 SIGNS TYPE II REFLECTIVE F	634.0616 POSTS WOOD 4x6-INCH x 16-FT EACH	REMARKS
11'H+19, LT	1-1	W14-1	DEAD END	30 x 30	-	6.25	1	
12'H+00, LT	1-2	R2-1	SPEED LIMIT_35	24 x 30	5.00	-	1	
13'H+00, LT	1-3	W3-1	STOP AHEAD	36 x 36	-	9.00	1	
13'H+00, RT	1-6	R2-1	SPEED LIMIT_45	24 x 30	5.00	-	1	
23'H+00, LT	2-1	W3-5	SPEED LIMIT 35 AHEAD (UA)	36 x 36	-	9.00	1	
24'I+36, LT	3-3	W1-6	NIGHT ARROW (SINGLE)	48 x 24	-	8.00	2	
646'EB+00, LT	3-6	R4-3	SLOWER TRAFFIC KEEP RIGHT	48 x 60	20.00	-	2	
648'EB+60, RT	3-7	M1-94	CTH I	54 x 21	7.88	-	2	
649'WB+84, LT	3-8	M1-94	CTH I	54 x 21	7.88	-	2	
27'I+12, LT	4-1	W1-6	NIGHT ARROW (SINGLE)	48 x 24	-	8.00	2	
32'I+10, RT	4-2	W1-6	NIGHT ARROW (SINGLE)	48 x 24	-	8.00	2	
32'I+37, RT	4-3	W1-6	NIGHT ARROW (SINGLE)	48 x 24	-	8.00	2	
35'I+00, LT	5-1	R2-1	SPEED LIMIT_45	24 x 30	5.00	-	1	
35'I+00, RT	5-2	R2-1	SPEED LIMIT_55	24 x 30	5.00	-	1	
				TOTAL 0010	55.75	56.25	21	

SIGNING REMOVALS

APPROX. STATION LOCATION	SIGN GROUP NUMBER	SIGN CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
11'H+19, LT	1-1	W14-1	1	1	
12'H+01, LT	1-2	R2-1	1	1	
13'H+01, LT	1-3	W3-1	1	1	
14'H+14, LT	1-4	W5-52L	1	1	
16'H+86, LT	1-5	W5-52R	1	1	
13'H+00, RT	1-6	R2-1	1	1	
13'H+90, RT	1-7	W5-52R	1	1	
16'H+60, RT	1-8	W5-52L	1	1	
23'H+00, LT	2-1	W3-5	1	1	
18'I+95, LT	3-1	W5-52L	1	1	
21'I+45, LT	3-2	W5-52R	1	1	
24'I+36, LT	3-3	W1-6	1	1	
19'I+03, RT	3-4	W5-52R	1	1	
21'I+60, RT	3-5	W5-52L	1	1	
646'EB+00, LT	3-6	R4-3	1	2	
648'EB+60, RT	3-7	M1-94	1	1	
649'WB+84, LT	3-8	M1-94	1	1	
27'I+12, LT	4-1	W1-6	1	1	
32'I+10, RT	4-2	W1-6	1	1	
32'I+37, RT	4-3	W1-6	1	1	
35'I+00, LT	5-1	R2-1	1	1	
35'I+00, RT	5-2	R2-1	1	1	
		TOTAL 0010	22	23	

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TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	TRAFFIC CONTROL (01. 1021-03-74) 643.0100 EACH	TRAFFIC CONTROL DRUMS 643.0300 DAY	TRAFFIC CONTROL BARRICADES TYPE III 643.0420 DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705 DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE C 643.0715 DAY	TRAFFIC CONTROL ARROW BOARDS 643.0800 DAY	TRAFFIC CONTROL SIGNS 643.0900 DAY	TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 EACH	TRAFFIC CONTROL SIGNS FIXED MESSAGE 643.1000 SF	TRAFFIC CONTROL SIGNS PCMS WITH CELLULAR COMMUNICATIONS 643.1051 DAY	REMARKS
0010	IH 94 EB AT HOBBS RD	-	752	24	48	176	16	160	-	-	-	LEFT LANE CLOSURE
0010	IH 94 EB AT HOBBS RD	-	896	24	48	216	16	152	-	-	-	RIGHT LANE CLOSURE
0010	IH 94 WB AT HOBBS RD	-	328	16	32	120	16	128	-	-	-	LEFT LANE CLOSURE
0010	IH 94 WB AT HOBBS RD	-	328	16	32	120	16	128	-	-	-	RIGHT LANE CLOSURE
0010	IH 94 EB AT CTH I	-	328	16	32	120	16	128	-	-	-	LEFT LANE CLOSURE
0010	IH 94 EB AT CTH I	-	328	16	32	120	16	128	8	-	-	RIGHT LANE CLOSURE
0010	IH 94 WB AT CTH I	-	328	16	32	120	16	128	-	-	-	LEFT LANE CLOSURE
0010	IH 94 WB AT CTH I	-	328	16	32	120	16	128	-	-	-	RIGHT LANE CLOSURE
0010	HOBBS RD	0.5	-	784	1568	-	-	784	-	-	-	BRIDGE CLOSURE
0010	CTH I	0.5	-	840	1680	-	-	840	-	-	-	BRIDGE CLOSURE
0010	EB, U.S.H. 53 S.B., & U.S.H. 53 N.	-	-	-	-	-	-	1980	-	90	220	ALTERNATE ROUTE
0010	IH 94 WB	-	-	-	-	-	-	1430	-	90	110	ALTERNATE ROUTE
0010	EB, U.S.H. 53 S.B., & U.S.H. 53 N.	-	664	176	256	456	16	584	8	-	-	FULL CLOSURE
0010	IH 94 WB	-	384	96	128	216	16	136	-	-	-	FULL CLOSURE
0010	IH 94 SHOULDERS	-	-	-	-	-	-	440	-	-	-	PROJECT DURATION (SPEED LIMIT 70)
0010	IH 94 SHOULDERS	-	-	-	-	-	-	440	-	-	-	PROJECT DURATION (END ROAD WORK)
0010	IH 94 SHOULDERS	-	-	-	-	-	-	440	-	-	-	PROJECT DURATION (ROAD WORK 1 MILE
0010	SHOULDER CLOSURES	-	-	-	-	-	-	880	-	-	-	SHOULDER CLOSURES
	TOTAL 0010	1	4664	2040	3920	1784	160	9034	16	180	330	

PAVEMENT MARKING EPOXY 4-INCH

CATEGORY	STATION TO STATION	646.0106 LF	REMARKS
0010	11'H+00 - 23'H+75	1275	LEFT EDGELINE
0010	11'H+00 - 23'H+75	2550	DOUBLE YELLOW
0010	11'H+00 - 23'H+75	1275	RIGHT EDGELINE
0010	13'I+66 - 36'I+39	2273	LEFT EDGELINE
0010	13'I+66 - 36'I+39	4546	DOUBLE YELLOW
0010	13'I+66 - 36'I+39	2273	RIGHT EDGELINE
	TOTAL 0010	14192	

SAWING ASPHALT

CATEGORY	STATION TO STATION	LOCATION	690.0150 LF	REMARKS
0010	11'H+00	HOBBS RD	22	
0010	11'H+00 - 11'H+14	HOBBS RD, LT	14	
0010	23'H+17	HOBBS RD	22	
0010	13'I+66	CTH I	22	
0010	35'I+05	CTH I	22	
	TOTAL 0010		102	

SPECIAL (02. SALVAGE AND REINSTALL BEAM GUARD)

CATEGORY	STATION TO STATION	LOCATION	SPV.0090.02 LF	REMARKS
0010	614'EB+89 - 618'EB+19	RT	331	
0010	614'WB+25 - 617'WB+28	LT	302	
0010	647'EB+09 - 650'EB+44	RT	335	
0010	648'WB+29 - 651'WB+39	LT	310	
		TOTAL 0010	1278	

TRANSPORTATION PROJECT PLAT NO: 1021-03-24 - 4.01

LOCATED IN PART OF LOT 1 OF CSM NO. 761, VOL. 4, PAGE 79 & 80, LOCATED IN AND INCLUDING THE SW 1/4 - SE 1/4, AND LOCATED IN PART OF THE SE 1/4 - SE 1/4 AND PART OF THE SE 1/4 - SW 1/4; ALL LOCATED IN SECTION 6, AND PART THE NW 1/4 OF THE NE 1/4 AND PART OF LOT 1 OF CSM NO. 1051, VOL. 5, PAGE 305, LOCATED IN AND INCLUDING THE NE 1/4 - NW 1/4 OF SECTION 7; ALL LOCATED IN TOWNSHIP 26 NORTH, RANGE 8 WEST, TOWN OF WASHINGTON, EAU CLAIRE COUNTY, WISCONSIN

RELOCATION ORDER IH 94 EAU CLAIRE - OSSEO (HOBBS RD B-18-0210/CTH I B-18-0232) EAU CLAIRE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

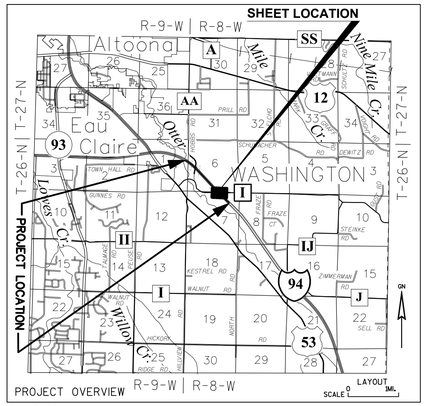
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

1144064
KATHRYN A. CHRISTENSON
EAU CLAIRE COUNTY, WI
REGISTER OF DEEDS

RECORDED ON
04/06/2017 4:19 PM

REC FEE: 25.00
TRANSFER FEE:
EXEMPT #
PAGES: 2

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1021-03-24 - 4.01
SHEET 1 OF 2
AMENDMENT NO:___



SCHEDULE OF LANDS AND INTERESTS REQUIRED		OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT				
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W S.F. REQUIRED			TLE S.F. REQUIRED
			NEW	EXISTING	TOTAL	
1	Marlon Brown	TLE	-	-	-	452
2	Mary Dehnke	FEE, TLE	11,918	-	11,918	9,539
3	Susan White	FEE, TLE	8,262	-	8,262	1,262
4	Diane K. & Donald L. Brott	TLE	-	-	-	1,888
5	Patrick L. & Michelle E. Lindner	TLE	-	-	-	2,401

SECTION COURSE TABLE		
COURSE	BEARING	DISTANCE
2-1	N 00°49'19" E	2864.34'
1-6	N 89°58'25" E	2391.00'
6-4	S 03°02'04" E	5467.32'
4-3	S 89°06'30" W	2760.34'
4-8	S 00°04'21" W	2655.77'
3-2	N 00°50'09" E	2637.75'
2-7	N 89°03'16" E	5217.14'
7-5	S 02°59'57" E	2651.42'
5-4	S 89°17'10" W	2633.84'
4-201	N 03°02'04" W	110.68'
4-222	N 03°02'04" W	56.13'

UTILITY EASEMENT INFORMATION			
UTILITY #	PARCEL #	COMPANY NAME	RECORDING DATA
100	1	EAU CLAIRE ENERGY COOPERATIVE	DOC. #776037 DOC. #842424
100	3	EAU CLAIRE ENERGY COOPERATIVE	DOC. #1030765
100	4	EAU CLAIRE ENERGY COOPERATIVE	DOC. #842426
100	5	EAU CLAIRE ENERGY COOPERATIVE	DOC. #464573 DOC. #842427 DOC. #968725

UTILITY INTERESTS REQUIRED		
UTILITY #	OWNER(S)	INTEREST REQUIRED
100	EAU CLAIRE ENERGY COOPERATIVE	RELEASE OF RIGHTS

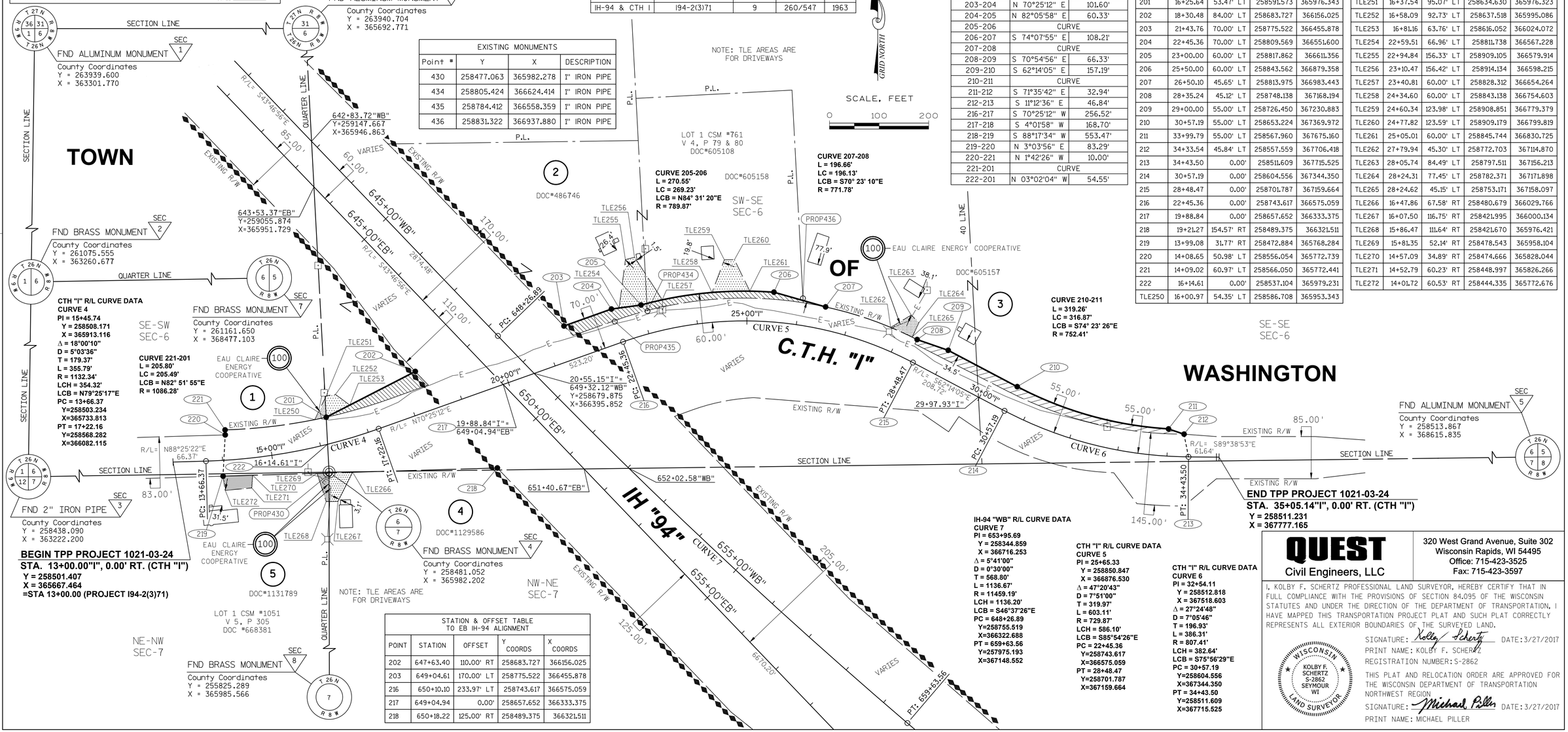
BASIS OF EXISTING R/W TABLE				
ROAD NAME	PROJECT / SURVEY	P=PARCEL L=LOT NO.	VOL./PAGE	YEAR
IH-94 & CTH I	I94-2(3)71	3	277/126	1965
IH-94 & CTH I	I94-2(3)71	4	273/563	1965
IH-94 & CTH I	I94-2(3)71	5	273/561	1965
IH-94 & CTH I	I94-2(3)71	8	258/300	1963
IH-94 & CTH I	I94-2(3)71	9	260/547	1963

EXISTING MONUMENTS			
Point #	Y	X	DESCRIPTION
430	258477.063	365982.278	1" IRON PIPE
434	258805.424	366624.414	1" IRON PIPE
435	258784.412	366558.359	1" IRON PIPE
436	258831.322	366937.880	1" IRON PIPE

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
201-202	N 62°50'53" E	201.94'
202-203	N 72°58'44" E	313.59'
203-204	N 70°25'12" E	101.60'
204-205	N 82°05'58" E	60.33'
205-206	CURVE	
206-207	S 74°07'55" E	108.21'
207-208	CURVE	
208-209	S 70°54'56" E	66.33'
209-210	S 62°14'05" E	157.19'
210-211	CURVE	
211-212	S 71°35'42" E	32.94'
212-213	S 11°12'36" E	46.84'
216-217	S 70°25'12" W	256.52'
217-218	S 4°01'58" W	168.70'
218-219	S 88°17'34" W	553.47'
219-220	N 3°03'56" E	83.29'
220-221	N 1°42'26" W	10.00'
221-201	CURVE	
222-201	N 03°02'04" W	54.55'

STATION & OFFSET TABLE TO CTH "I" ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
201	16+25.64	53.47' LT	258591.573	365976.343
202	18+30.48	84.00' LT	258683.727	366156.025
203	21+43.76	70.00' LT	258775.522	366455.878
204	22+45.36	70.00' LT	258809.569	366551.600
205	23+00.00	60.00' LT	258817.862	366611.356
206	25+50.00	60.00' LT	258843.562	366879.358
207	26+50.10	45.65' LT	258813.975	366983.443
208	28+35.24	45.12' LT	258748.138	367168.194
209	29+00.00	55.00' LT	258726.450	367230.883
210	30+57.19	55.00' LT	258653.224	367369.972
211	33+99.79	55.00' LT	258567.960	367675.160
212	34+33.54	45.84' LT	258557.559	367706.418
213	34+43.50	0.00'	258511.609	367715.525
214	30+57.19	0.00'	258604.556	367344.350
215	28+48.47	0.00'	258701.787	367159.664
216	22+45.36	0.00'	258743.617	366575.059
217	19+88.84	0.00'	258657.652	366333.375
218	19+21.27	154.57' RT	258489.375	366321.511
219	13+99.08	31.77' RT	258472.884	365768.284
220	14+08.65	50.98' LT	258556.054	365772.739
221	14+09.02	60.97' LT	258566.050	365772.441
222	16+14.61	0.00'	258537.104	365979.231
TLE250	16+00.97	54.35' LT	258586.708	365953.343

STATION & OFFSET TABLE TO CTH "I" ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
TLE251	16+37.54	95.07' LT	258634.630	365976.323
TLE252	16+58.09	92.73' LT	258637.518	365995.086
TLE253	16+81.16	63.76' LT	258616.052	366024.072
TLE254	22+59.51	66.96' LT	258811.738	366567.228
TLE255	22+94.84	156.33' LT	258909.105	366579.914
TLE256	23+10.47	156.42' LT	258914.134	366598.215
TLE257	23+40.81	60.00' LT	258828.312	366654.264
TLE258	24+34.60	60.00' LT	258843.138	366754.603
TLE259	24+60.34	123.98' LT	258908.851	366779.379
TLE260	24+77.82	123.59' LT	258909.179	366799.819
TLE261	25+05.01	60.00' LT	258845.744	366830.725
TLE262	27+79.94	45.30' LT	258772.703	367114.870
TLE263	28+05.74	84.49' LT	258797.511	367156.213
TLE264	28+24.31	77.45' LT	258782.371	367171.898
TLE265	28+24.62	45.15' LT	258753.171	367158.097
TLE266	16+47.86	67.58' RT	258480.679	366029.766
TLE267	16+07.50	116.75' RT	258421.995	366000.134
TLE268	15+86.47	111.64' RT	258421.670	365976.421
TLE269	15+81.35	52.14' RT	258478.543	365958.104
TLE270	14+57.09	34.89' RT	258474.666	365828.044
TLE271	14+52.79	60.23' RT	258448.997	365826.266
TLE272	14+01.72	60.53' RT	258444.335	365772.676



STATION & OFFSET TABLE TO EB IH-94 ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
202	647+63.40	110.00' RT	258683.727	366156.025
203	649+04.61	170.00' LT	258775.522	366455.878
216	650+10.10	233.97' LT	258743.617	366575.059
217	649+04.94	0.00'	258657.652	366333.375
218	650+18.22	125.00' RT	258489.375	366321.511

QUEST
Civil Engineers, LLC

320 West Grand Avenue, Suite 302
Wisconsin Rapids, WI 54495
Office: 715-423-3525
Fax: 715-423-3597

I, KOLBY F. SCHERTZ PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Kolby F. Schertz DATE: 3/27/2017
PRINT NAME: KOLBY F. SCHERTZ
REGISTRATION NUMBER: S-2862

WISCONSIN KOLBY F. SCHERTZ S-2862 SEYMOUR WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION

SIGNATURE: Michael Piller DATE: 3/27/2017
PRINT NAME: MICHAEL PILLER

FILE NAME : S:\SURVEY\LAND SURVEYS\2015 PROJECTS\WO#12_1021-03-04_MC-0697-20-75_IH-94-BRIDGES-TPP_(NW REGION)\TPP\C3D\10210304_IH9_TPP.DWG
PLOT DATE : March 27, 2017 PLOT BY : KOLBY SCHERTZ PLOT NAME : IH 94/S.T.H. 128 PLOT SCALE : 1" = 100'
APPRAISAL PLAT DATE : _____

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
PROJECT NO. 1021-03-24
TOWN OF WASHINGTON
EAU CLAIRE - OSSEO
IH 94
EAU CLAIRE COUNTY

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
RIGHT OF WAY GUARD POST

SECTION CORNER
NOTATION FOR COMBUSTIBLE FLUIDS
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES
BRIDGE

R/W MONUMENT
NON-MONUMENTED R/W POINT
FOUND IRON MON.
VALVE (GAS, WATER, ETC.)
SIGN
OFF-PREMISE SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
TELEPHONE POLE	●	⌀
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	■	□

ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)

PARCEL NUMBER 25
UTILITY NUMBER 40
EXISTING MONUMENT NUMBER ****
R/W BOUNDARY POINT NUMBER ***

CONVENTIONAL ABBREVIATIONS

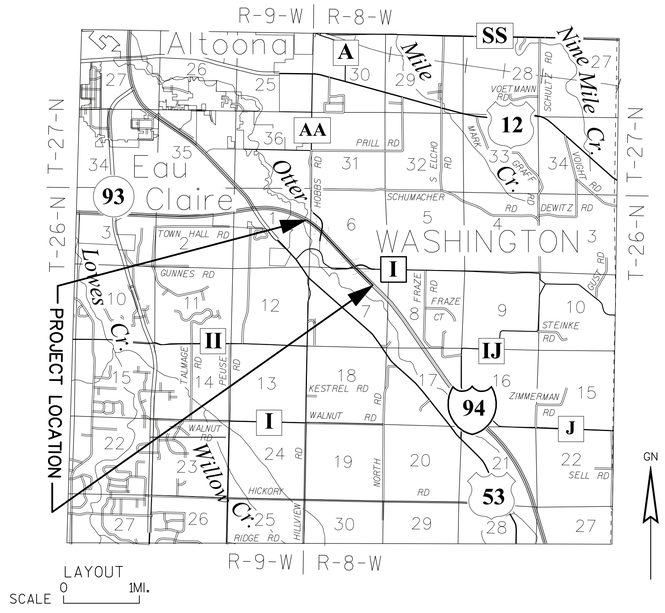
ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RIGHT	RT
CENTERLINE	C/L	RIGHT OF WAY	R/W
CERTIFIED SURVEY MAP	CSM	SECTION	SEC
CONCRETE	CONC	SEPTIC VENT	SEPV
COUNTY	CO	SQUARE FEET	SF
COUNTY TRUNK HIGHWAY	CTH	STATE TRUNK HIGHWAY	STH
DISTANCE	DIST	STATION	STA
CORNER	COR	SUBDIVISION	SUBD
DOCUMENT NUMBER	DOC	TANGENT	TAN
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED EASEMENT	TLE
GAS VALVE	GV	TRANSPORTATION PROJECT PLAT	TPP
GRID NORTH	GN	UNITED STATES HIGHWAY	USH
HIGHWAY EASEMENT	HE	VOLUME	V
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		

CURVE DATA

LONG CHORD	LC
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	Δ
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

WATER —W—
GAS —G—
TELEPHONE —T—
OVERHEAD TRANSMISSION LINES —OH—
ELECTRIC —E—
CABLE TELEVISION —TV—
FIBER OPTIC —FO—
SANITARY SEWER —SAN—
STORM SEWER —SS—



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, EAU CLAIRE COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" X 24" IRON PIPES), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN EAU CLAIRE, WI.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE EAU CLAIRE COUNTY HIGHWAY DEPARTMENT FOR DRIVEWAYS ON C.T.H. "I".

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING ACCESS CONTROL ALONG IH-94 AND C.T.H. "I" HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT I-94-2(3)71
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR IH-94 AND C.T.H. "I" ESTABLISHED FROM PREVIOUS PROJECT I-94-2(3)71

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1021-03-24 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : S:\SURVEY\LAND SURVEYS\2015 PROJECTS\WO#12_1021-03-04_MC-0697-20-75_IH-94-BRIDGES-TPP_(NW REGION)\TPP\C3D\10210304_IH9_TPP.DWG
APPRAISAL PLAT DATE : --------
PLOT DATE : March 27, 2017
PLOT BY : KOLBY SCHERTZ
PLOT NAME : IH-94/C.TH. I

1021-03-24

LAYOUT NAME - ****

PI STA = 606'EB+04.99
DELTA = 27°29'16"
D = 1°00'00"
T = 1401.39'
L = 2748.81'
R = 5729.65'
PC STA = 592'EB+03.60
PT STA = 619'EB+52.41
S.E. = 0.034 '/'

N

EXISTING R/W

EAU CLAIRE ENERGY COOP

BEGIN PROJECT
STA 11'H+00
(SAW CUT REQUIRED)
Y = 260605.72
X = 364009.08

STA 15'H+00.92 = STA 616'EB+51.65

12"x32' UNPERF. CMP UNDERDRAIN
FOR CONC SURFACE DRAIN

SLOPE INTERCEPT

MGS BEAMGUARD

N9° 43' 04"E
811.58'

STRUCTURE
B-18-0210

15'H+00

12"x52' UNPERF. CMP UNDERDRAIN
FOR CONC SURFACE DRAIN

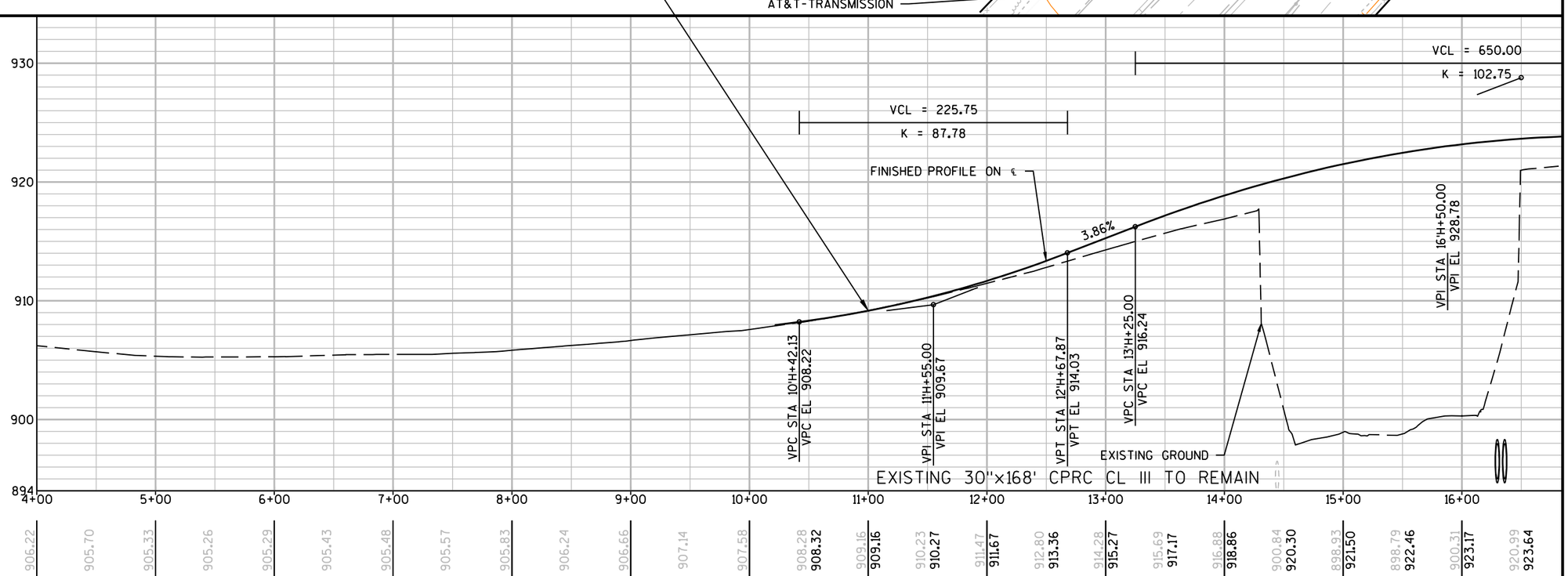
EXISTING 30"x168' CLASS III RCCP TO REMAIN

AT&T-TRANSMISSION

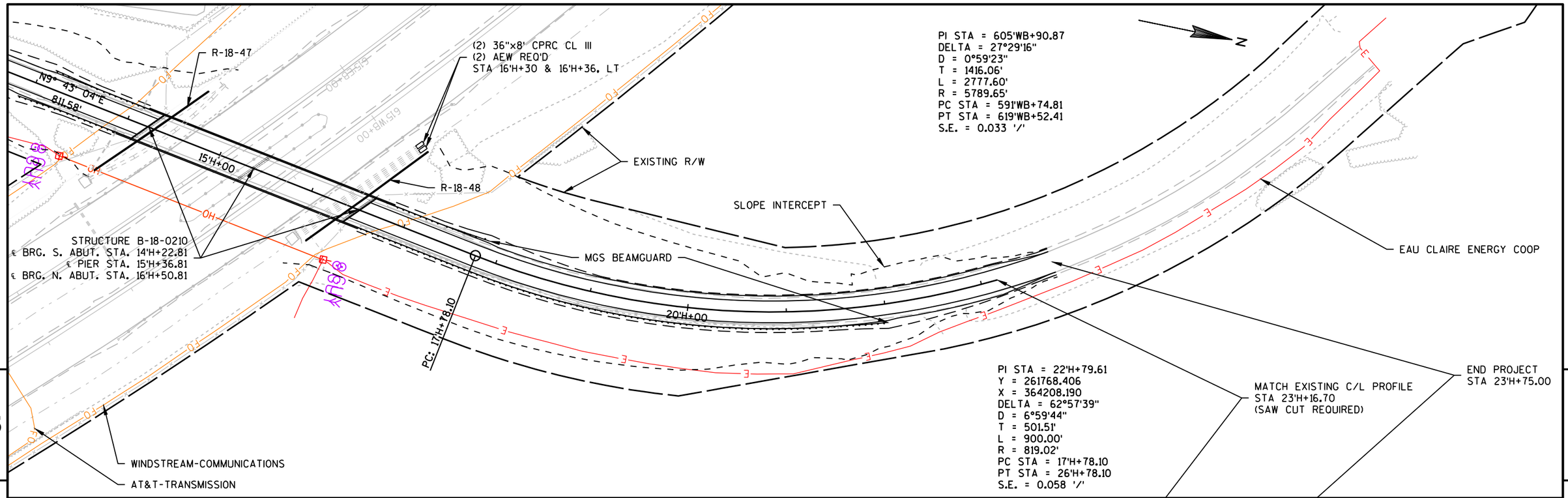
EXISTING STRUCTURE
B-18-0050 TO BE
REMOVED

5

5



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PLAN AND PROFILE: HOBBS RD	SHEET	E



PROJECT NO:1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PLAN AND PROFILE: HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\050101_PP12.13.2016.DWG
LAYOUT NAME - 0501012
PLOT DATE : 1/9/2017 4:28 PM
PLOT BY : BUDDEN, LUCAS J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

STA 19'1+38. LT
1 -24" x 16' CPRC CL III REQ'D.
1 - APRON ENDWALL REQ'D.
REMOVE 1 - 24" APRON ENDWALL

STA 21'1+07. LT
1 -24" x 28' CPRC CL III REQ'D.
1 - APRON ENDWALL REQ'D.
REMOVE 1 - 24" APRON ENDWALL

EAU CLAIRE ENERGY COOP

R-18-49

PROPOSED R/W

MGS BEAMGUARD

PROPOSED TLE

CONSTRUCT 'PE3'
STA 16'1+18 LT
1 - 18" x 60' CPCSAC REQ'D.
2 - APRON ENDWALLS REQ'D.
REMOVE CP 18" CPCS

EXISTING R/W

SLOPE INTERCEPT

AT&T_DISTRIBUTION

CTH I

15'1+00

20'1+00

N70° 25' 12"E
523.20'

PI: 17'1+22.16

R-18-50

PC: 22'1+63.36

SLOPE INTERCEPT

MGS BEAMGUARD

PI: 15+45.74

CONSTRUCT 'PE2'
STA 16'1+18 RT
1 - 18" x 58' CPCSAC REQ'D.
2 - APRON ENDWALLS REQ'D.
REMOVE CP 18" CPCS

S43° 46' 56"E
6670.20'

BEGIN PROJECT
STA 13'1+66.37
(SAW CUT REQUIRED)
Y = 258503.23
X = 365733.81

CONSTRUCT 'PE1'
STA 14'1+25 RT
REMOVE CP 18" CPCPP

PROPOSED TLE

EAU CLAIRE ENERGY COOP

EAU CLAIRE ENERGY COOP

STRUCTURE B-18-0232
℄ BRG. W. ABUT. STA. 19'1+17.00
℄ PIER STA. 20'1+22.00
℄ BRG. E. ABUT. STA. 21'1+27.00

VCL = 360.00
K = 112.19

VCL = 650.00
K = 102.30

BP STA 13'1+66.37
BP EL 910.42

VPC STA 13'1+95.00
VPC EL 910.62

VPI STA 15'1+75.00
VPI EL 911.90

VPC STA 17'1+75.00
VPC EL 919.74

VPT STA 17'1+55.00
VPT EL 918.96

VPI STA 21'1+00.00
VPI EL 932.48

FINISHED ℄ PROFILE

℄ PE1

℄ PE2

℄ PE3

℄ PE4

0.71%

3.92%

18" CPCSAC

908.38

906.62

905.85

904.94

899.48

899.39

24" CPRC CL III EXTENSION

900.20

900.02

24" CPRC CL III EXTENSION

930
920
910
900
896

13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+

910.35
910.53 910.66
910.56 911.15
910.61 911.86
910.92 912.79
911.38 913.95
912.11 915.33
913.55 916.93
915.25 918.76
917.33 920.69
919.48 922.41
921.09 923.88
902.87 925.10
902.64 926.09
904.53 926.82
905.78 927.32
924.94 927.57
925.08 927.57
924.70 927.33
923.88 926.85
923.04 926.12
922.12

PROJECT NO:1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\050201_PP12.16.2016 WITH NO PIPE NETWORKS.DWG
LAYOUT NAME - 022501

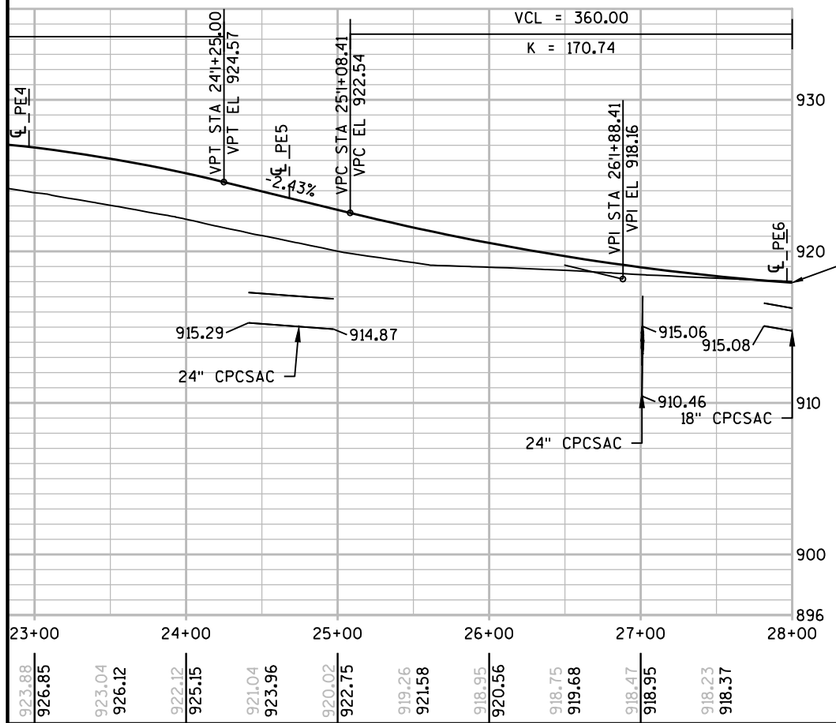
PLOT DATE : 3/9/2017 5:39 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:100 FT

PI STA = 25'I+65.33
Y = 258850.847
X = 366876.530
DELTA = 47°20'43"
D = 7°51'00"
T = 319.97'
L = 603.11'
R = 729.87'
PC STA = 22'I+45.36
PT STA = 28'I+48.47
S.E. = 0.060 '/'

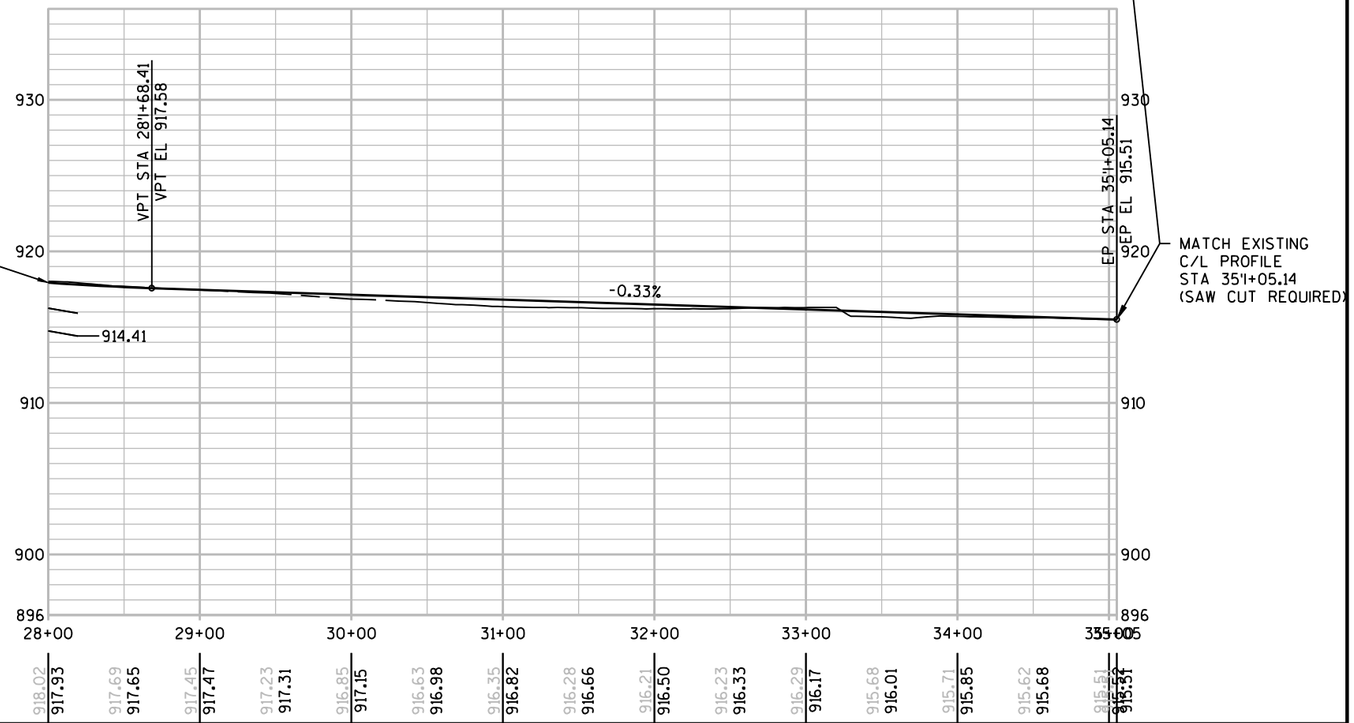
PI STA = 32'I+54.11
Y = 258512.818
X = 367518.603
DELTA = 27°24'48"
D = 7°05'46"
T = 196.93'
L = 386.31'
R = 807.41'
PC STA = 30'I+57.19
PT STA = 34'I+43.50
S.E. = 0.058 '/'

CONSTRUCT 'PE5'
STA 24'I+69 LT
1 - 24" x 60' CPCSAC REQ'D.
2 - APRON ENDWALLS REQ'D.
REMOVE CP 24" CPCS.

PROPOSED TLE
PI: 25+65.33
SLOPE INTERCEPT
PROPOSED TLE
CONSTRUCT 'PE6'
STA 28'I+01 LT
1 - 18" x 40' CPCSAC REQ'D.
2 - APRON ENDWALLS REQ'D.
REMOVE CP 18" CPCS
EXISTING
48" x 124' CP CLASS III
SKEW 25° RHF TO REMAIN
STA 33'I+62
1 - APRON ENDWALL REQ'D.
REMOVE MRM ENDWALL LT
N
PROPOSED TLE
EAU CLAIRE
ENERGY COOP
EAU CLAIRE ENERGY COOP
PT: 28'I+48.47
FC: 30'I+57.19
PT: 34'I+43.50
END PROJECT STA 36'I+39.33
S89° 38' 53"E
61.64'
CONSTRUCT 'PE4'
STA 23'I+00 LT
MGS BEAMGUARD
PROPOSED R/W
25'I+00
S62° 14' 05"E
209.72'
30'I+00
35'I+00
CTH I
SLOPE INTERCEPT
STA 27'I+01
1 - 24" x 72' CPCSAC REQ'D.
2 - APRON ENDWALLS REQ'D.
REMOVE CP 24" CPCS
MGS BEAMGUARD
PI STA = 653'WB+95.69
DELTA = 5°41'00"
D = 0°30'00"
T = 568.80'
L = 1136.67'
R = 11459.19'
PC STA = 648'WB+26.89
PT STA = 659'WB+63.56
S.E. = R.C. (2.0%)
EXISTING R/W
PC: 22'I+45.36
PI: 32+54.11
MGS K
STA 32'I+75 - STA 34'I+76
WINDSTREAM-COMMUNICATIONS
AT&T-TRANSMISSION



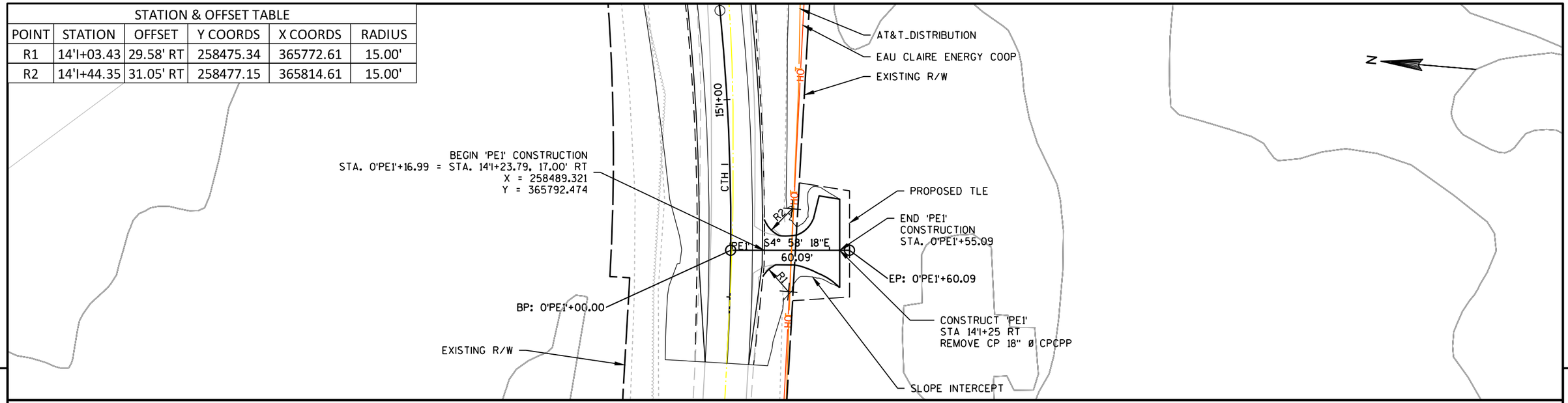
IDENTICAL POINTS

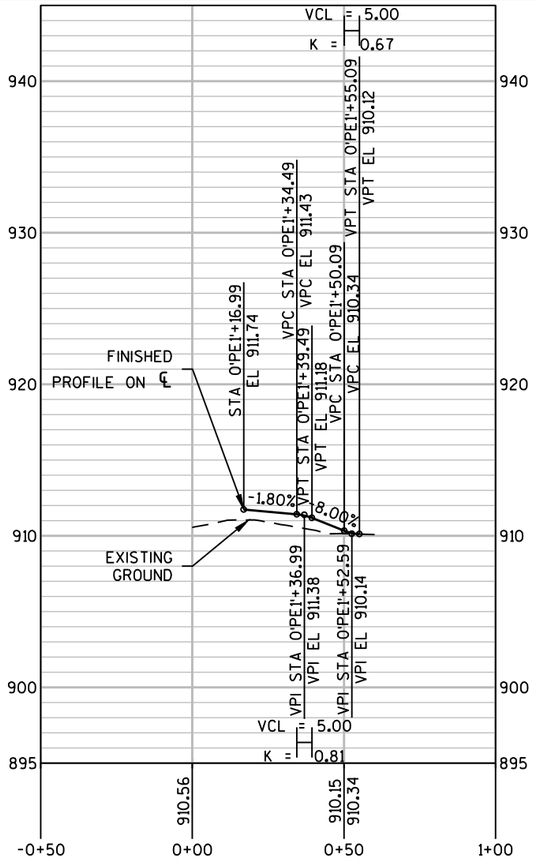


PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\050201_PP12.16.2016 WITH NO PIPE NETWORKS.DWG
LAYOUT NAME - 022502
PLOT DATE : 3/9/2017 5:39 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:100 FT

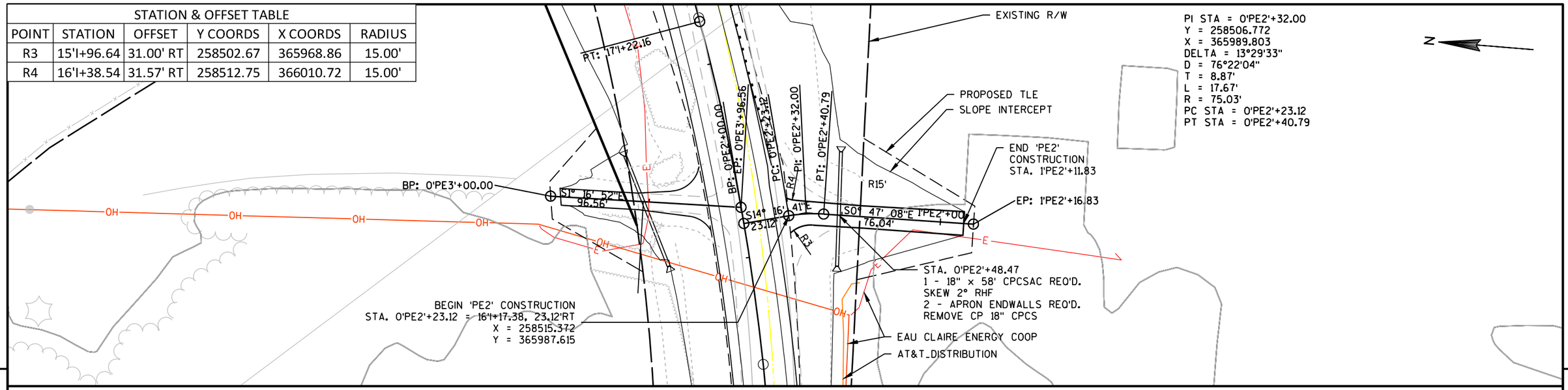
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
R1	14'I+03.43	29.58' RT	258475.34	365772.61	15.00'
R2	14'I+44.35	31.05' RT	258477.15	365814.61	15.00'

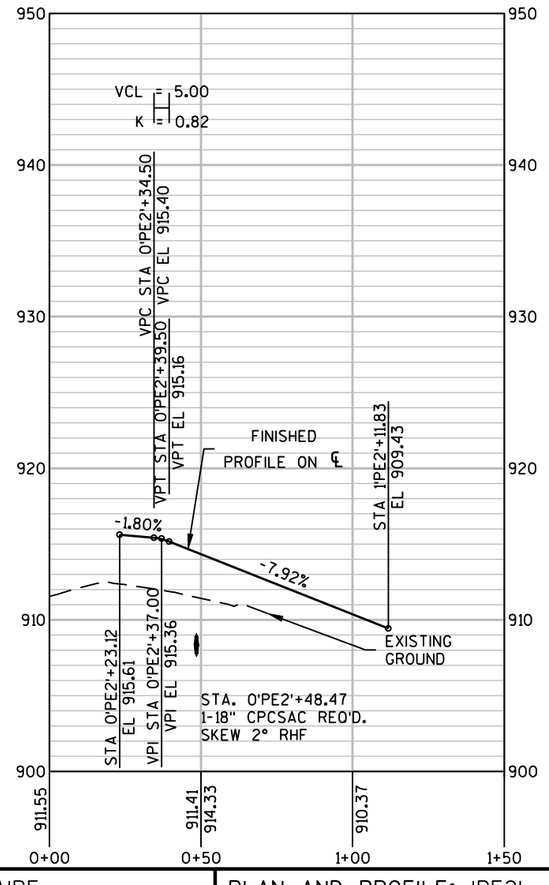




PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PLAN AND PROFILE: 'PE1'	SHEET	E

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
R3	15'I+96.64	31.00' RT	258502.67	365968.86	15.00'
R4	16'I+38.54	31.57' RT	258512.75	366010.72	15.00'





PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PLAN AND PROFILE: 'PE2'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-PP CTH I DWYS.DWG
LAYOUT NAME - SHEET - (3)
PLOT DATE : 3/9/2017 5:02 PM
PLOT BY : BUDDEN, LUCAS J
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
R5	16'I+11.06	31.00' LT	258566.33	365968.31	15.00'
R6	16'I+55.53	31.01' LT	258577.59	366010.06	15.00'

PROPOSED R/W

PT: 17'I+22.16

STA. 0'PE3'+46.96
1 - 18" x 60' CPCSAC REQ'D.
SKEW 2° RHF
2 - APRON ENDWALLS REQ'D.
REMOVE CP 18" CPCS

BEGIN 'PE3' CONSTRUCTION
STA. 0'PE3'+05.04 = 16'I+48.67, 88.81' LT
X = 258631.346
Y = 365987.857

BP: 0'PE3'+00.00

PI STA = 0'PE2'+32.00
Y = 258506.772
X = 365989.803
DELTA = 13°29'33"
D = 76°22'04"
T = 8.87'
L = 17.67'
R = 75.03'
PC STA = 0'PE2'+23.12
PT STA = 0'PE2'+40.79

N

BP: 0'PE2'+00.00
EP: 0'PE3'+96.56
PC: 0'PE2'+23.12
PI: 0'PE2'+32.00
PT: 0'PE2'+40.79

EP: 1'PE2'+16.83

S1° 16' 52"E 96.56'
S14° 16' 41"E 23.12'
S0° 47' 08"E 76.04'

R6
R5
14.3'

OH
E

EAU CLAIRE ENERGY COOP

PROPOSED TLE

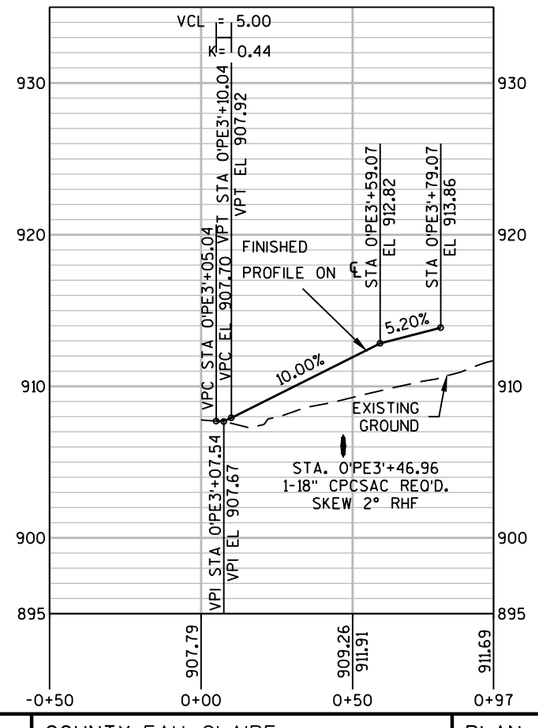
EXISTING R/W

EAU CLAIRE ENERGY COOP

AT&T DISTRIBUTION

END 'PE3' CONSTRUCTION
STA. 0'PE3'+97.07

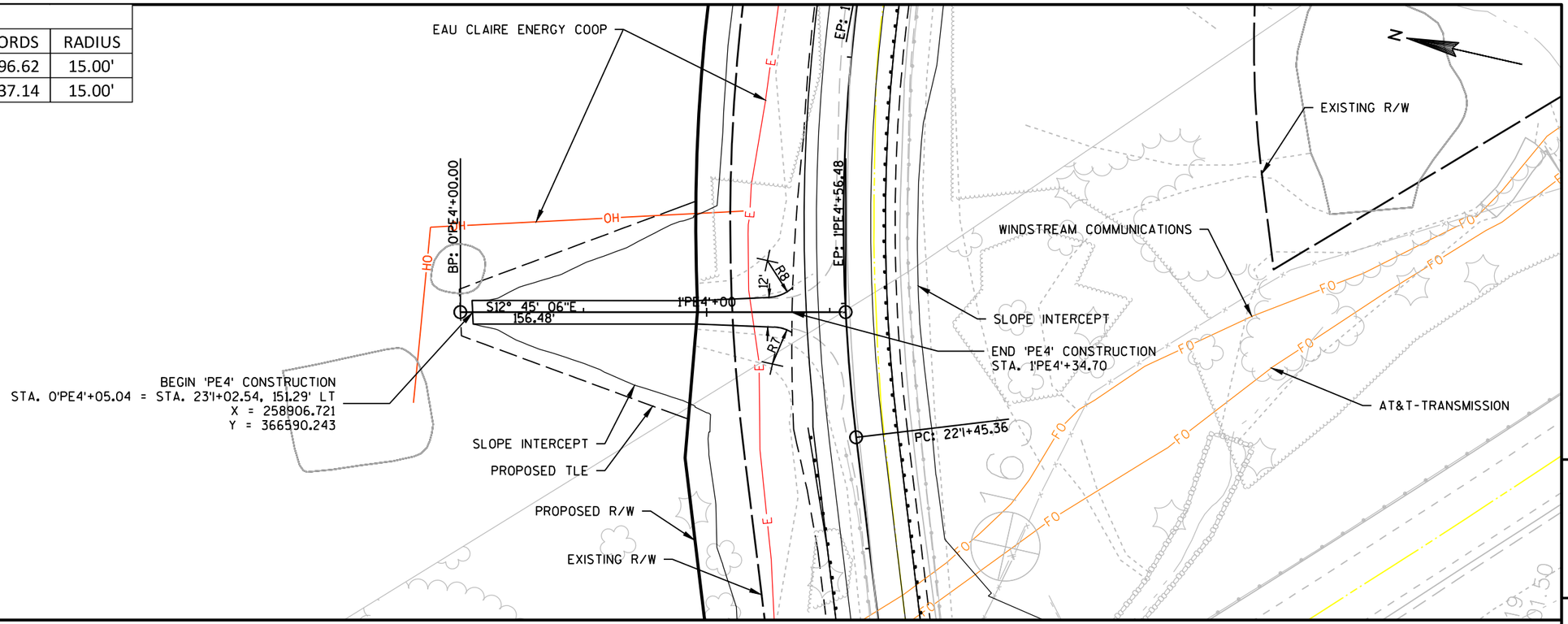
HDT

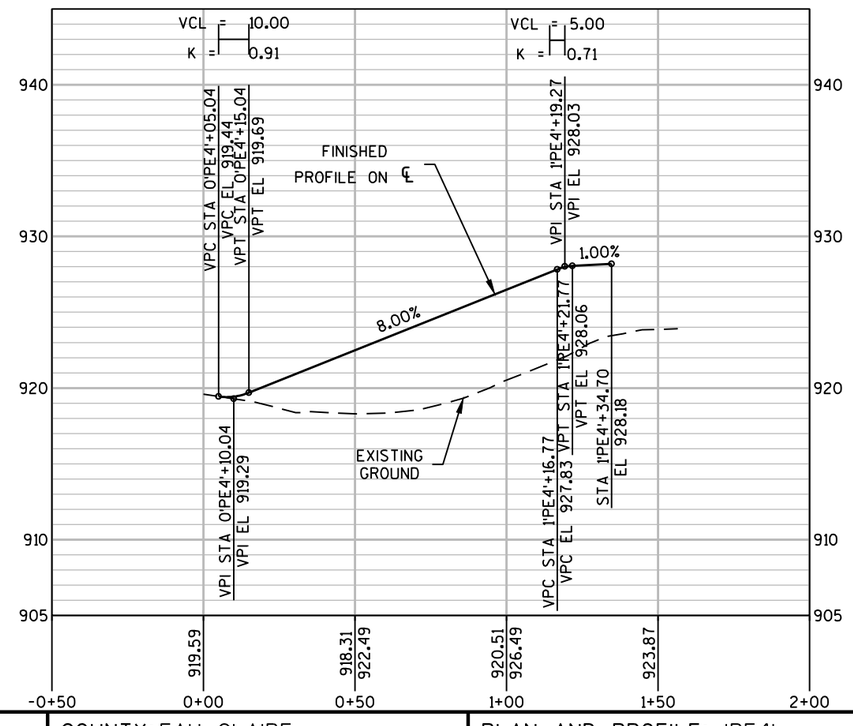


PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PLAN AND PROFILE: 'PE3'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-PP CTH I DWYS.DWG
LAYOUT NAME - SHEET - (4)
PLOT DATE : 3/9/2017 5:02 PM
PLOT BY : BUDDEN, LUCAS J
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
R7	22'1+77.64	31.00' LT	258783.40	366596.62	15.00'
R8	23'1+17.98	31.02' LT	258794.63	366637.14	15.00'

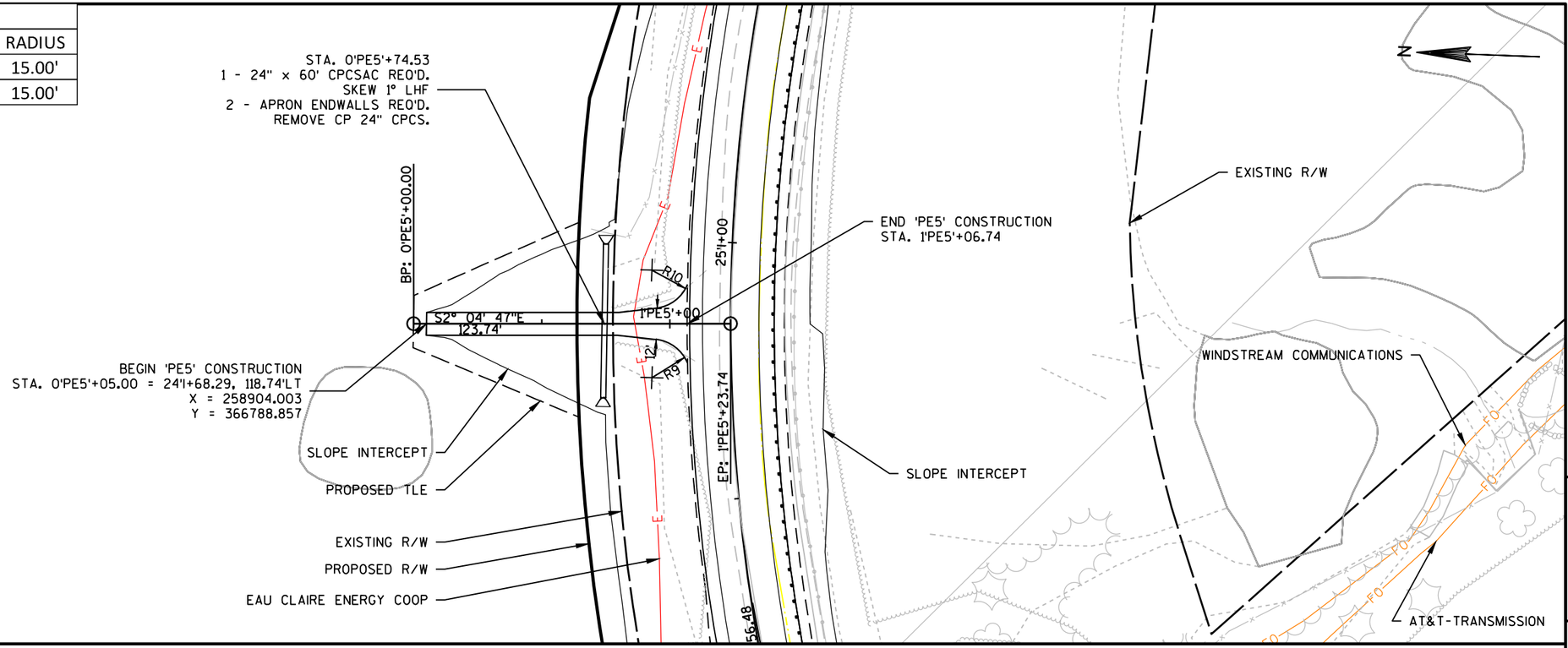


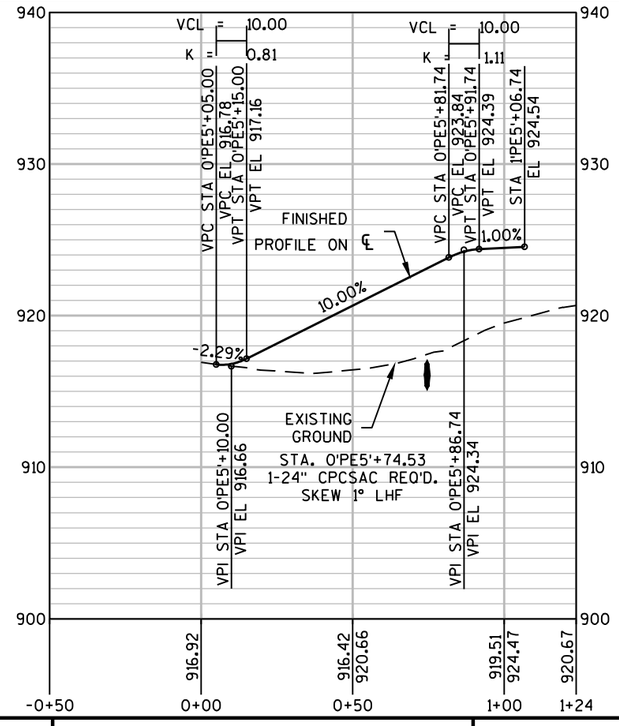


PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PLAN AND PROFILE: 'PE4'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-PP CTH I DWYS.DWG
LAYOUT NAME - SHEET - (5)
PLOT DATE : 3/9/2017 5:02 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

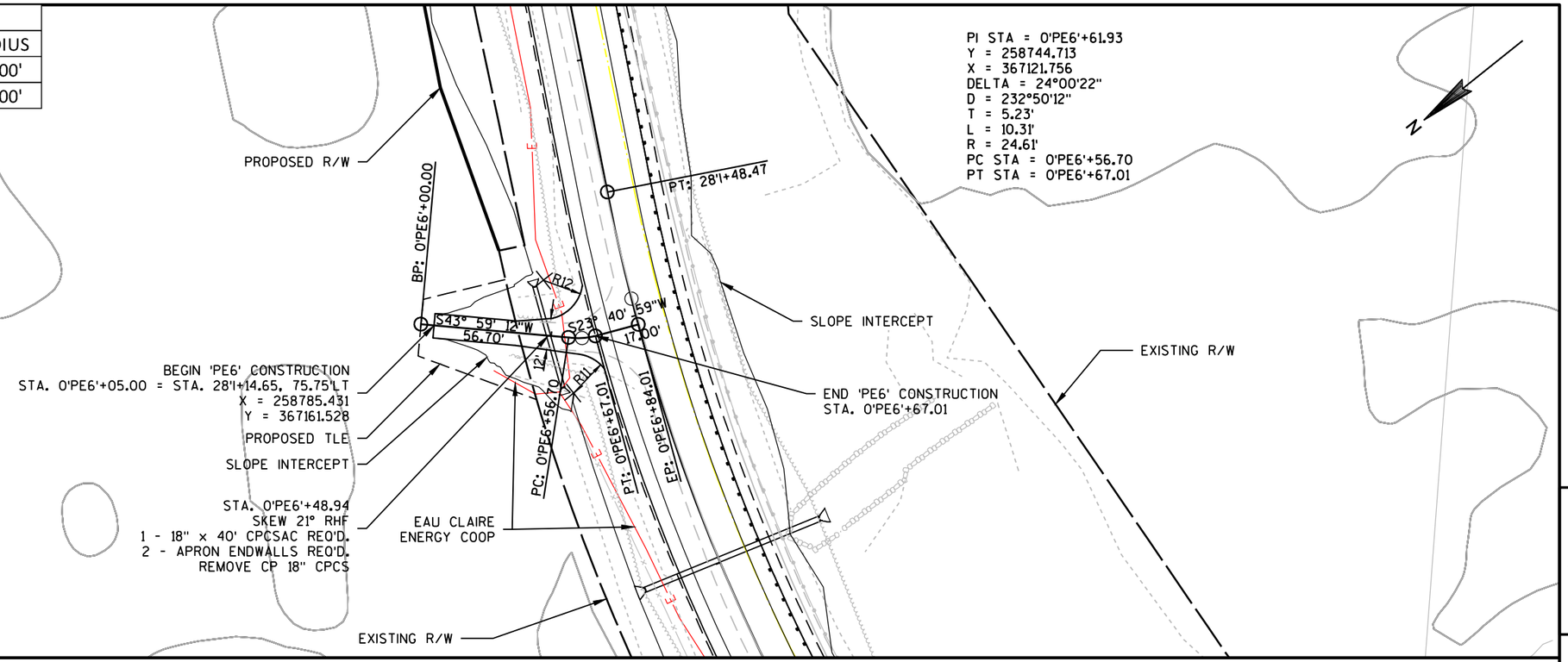
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
R9	24'I+48.14	31.00' LT	258815.27	366771.07	15.00'
R10	24'I+88.43	31.02' LT	258816.82	366813.04	15.00'

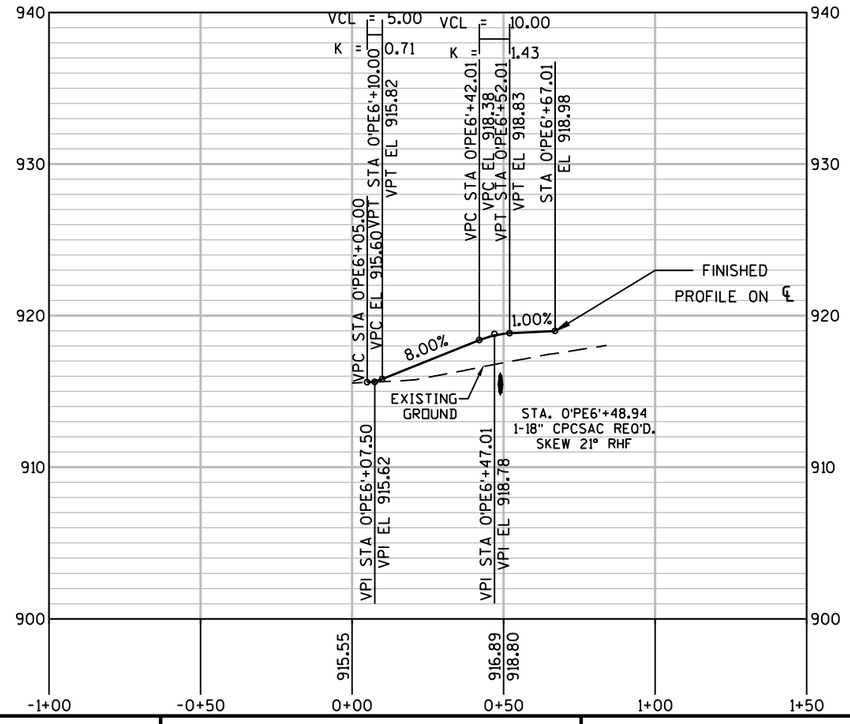




PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PLAN AND PROFILE: 'PE5'	SHEET	E

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
R11	27'I+78.36	31.00' LT	258760.11	367107.90	15.00'
R12	28'I+21.25	31.00' LT	258741.96	367148.76	15.00'

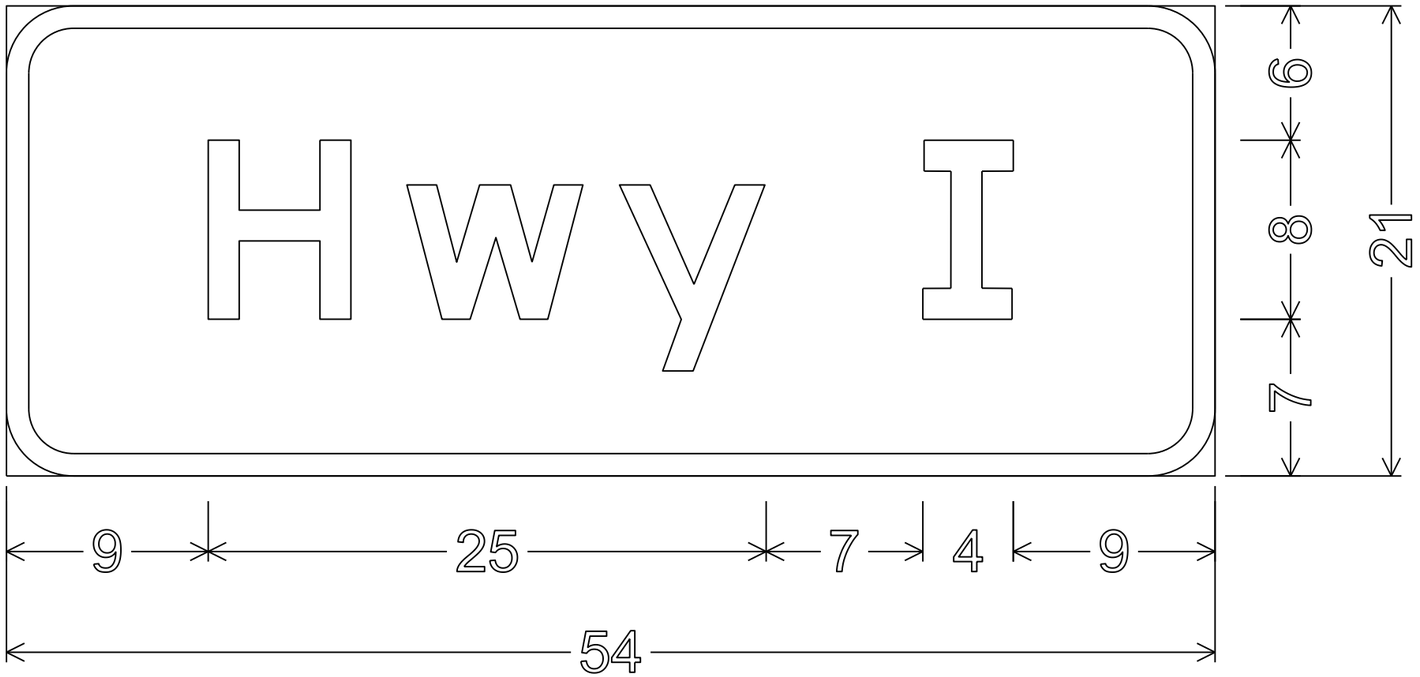




PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PLAN AND PROFILE: 'PE6'	SHEET	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



M1-94;

3.000" Radius, 1.000" Border

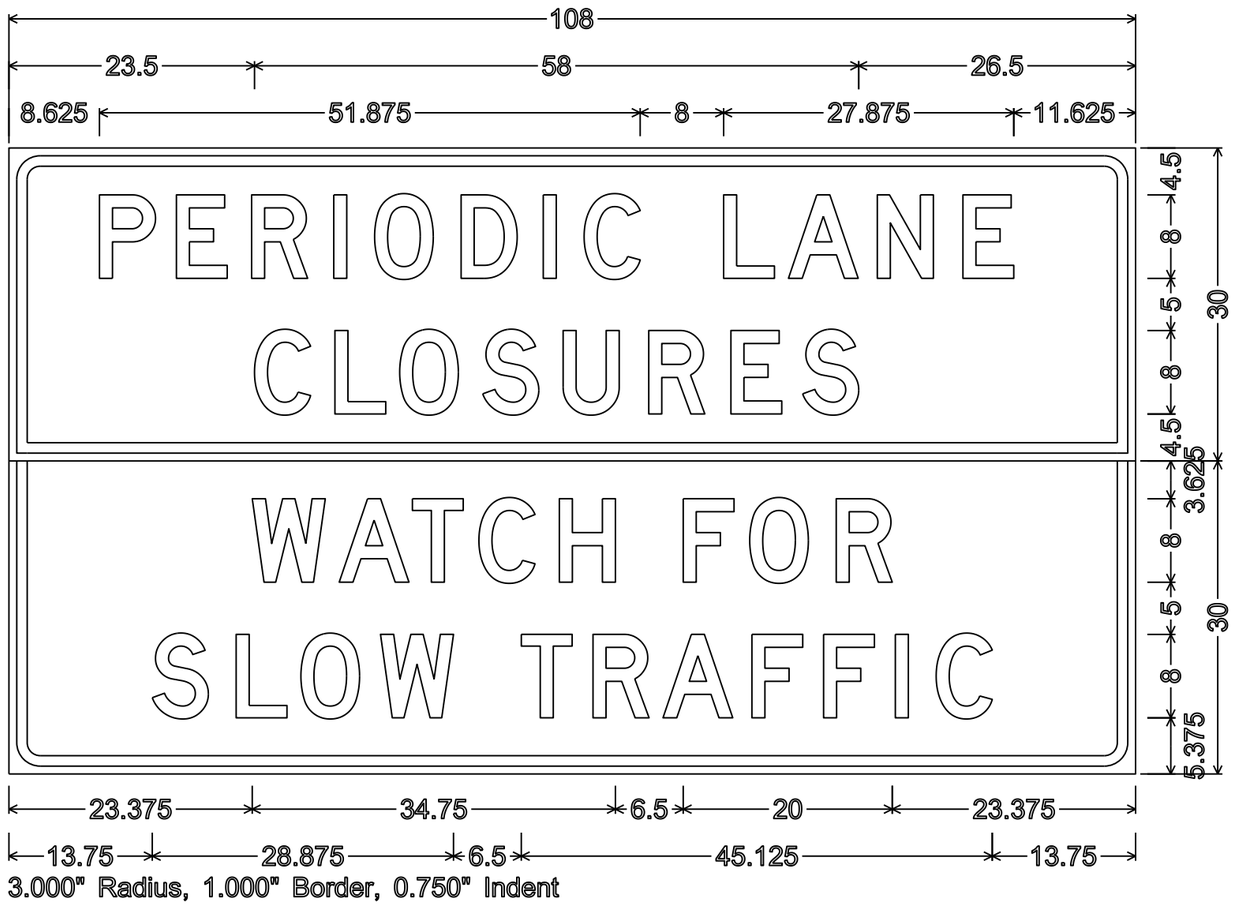
7

7

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	PERMANENT SIGNING	SHEET NO:	E

NOTES

1. All Signs are Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D

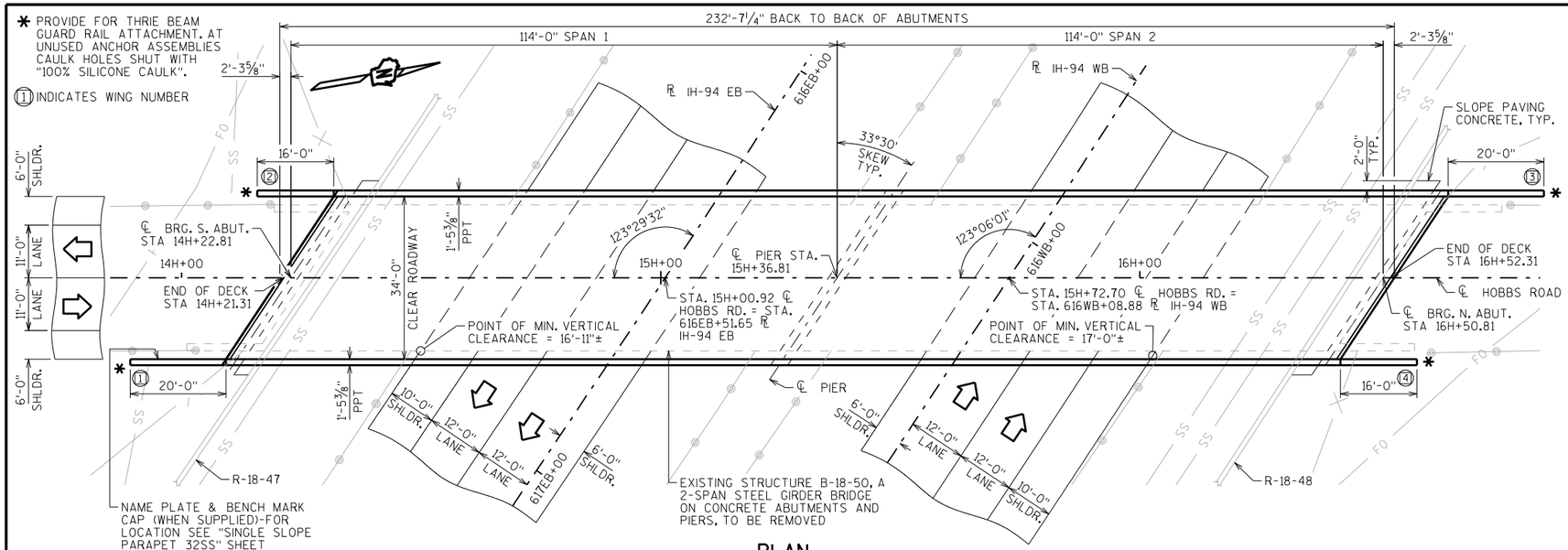


7

7

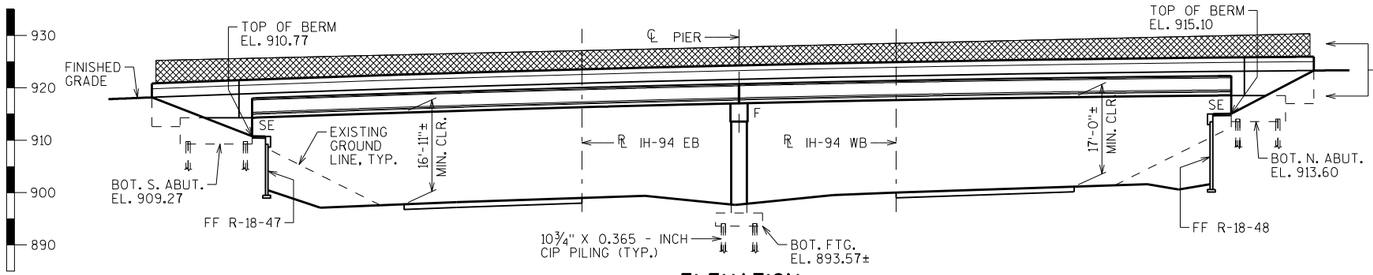
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	TEMPORARY SIGNING	SHEET NO:	E

STATE PROJECT NUMBER
1021-03-74



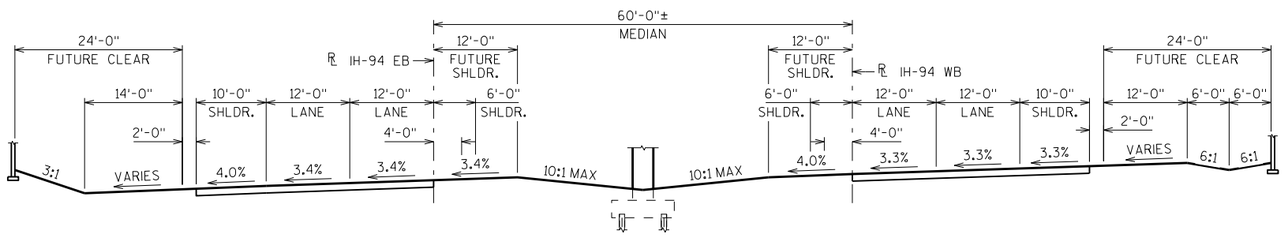
PLAN

2 SPAN - 45W" PRESTRESSED GIRDERS



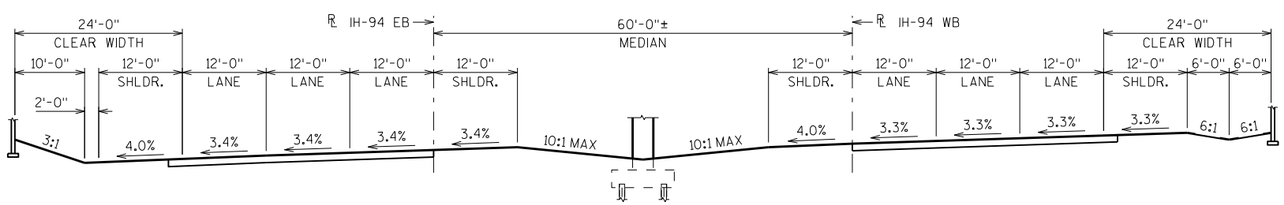
ELEVATION

NORMAL TO IH-94



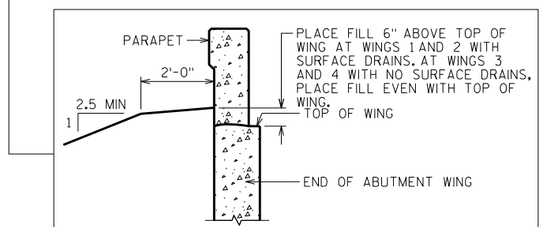
TYP. FINISHED SECTION THRU IH-94

(LOOKING WEST)



TYP. FUTURE SECTION THRU IH-94

(LOOKING WEST)



TYPICAL FILL SECTION AT WING TIPS

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.08
OPERATING RATING FACTOR: RF = 1.43
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250(KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
DECK, DIAPHRAGMS, AND PARAPETS — f'c = 4,000 P.S.I.
ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 — fy = 60,000 P.S.I.

45W" PRESTRESSED GIRDERS:
CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON 10 3/4" X .365-INCH CIP PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 150 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 85'LONG AT BOTH ABUTMENTS.

PIER TO BE SUPPORTED ON 10 3/4" X .365-INCH CIP PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 150 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 95'LONG.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

HOBBS ROAD
ADT = 575 (2038)
R.D.S. = 45 M.P.H.

IH-94
ADT = 35,300 (2042)
R.D.S. = 70 M.P.H.

CURVE DATA

IH-94 EB
P.I. = 606EB+04.99
△ = 27°29'16"
D = 1°00'00"
T = 1401.39'
L = 2748.81'
R = 5729.65'
S.E. = 3.40%
P.C. = 592EB+03.60
P.T. = 619EB+52.41

IH-94 WB
P.I. = 605WB+90.87
△ = 27°29'16"
D = 0°59'23"
T = 1416.06'
L = 2777.60'
R = 5789.65'
S.E. = 3.30%
P.C. = 591WB+74.81
P.T. = 619WB+52.41

STRUCTURE DESIGN CONTACTS:

DANIELLE DE TENNIS (608) 266-8689
LAURA SHADEWALD (608) 267-9592

LIST OF DRAWINGS

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION — BUREAU OF STRUCTURES

ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER _____ DATE

STRUCTURE B-18-210

HOBBS ROAD OVER IH-94

COUNTY EAU CLAIRE | TOWN WASHINGTON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

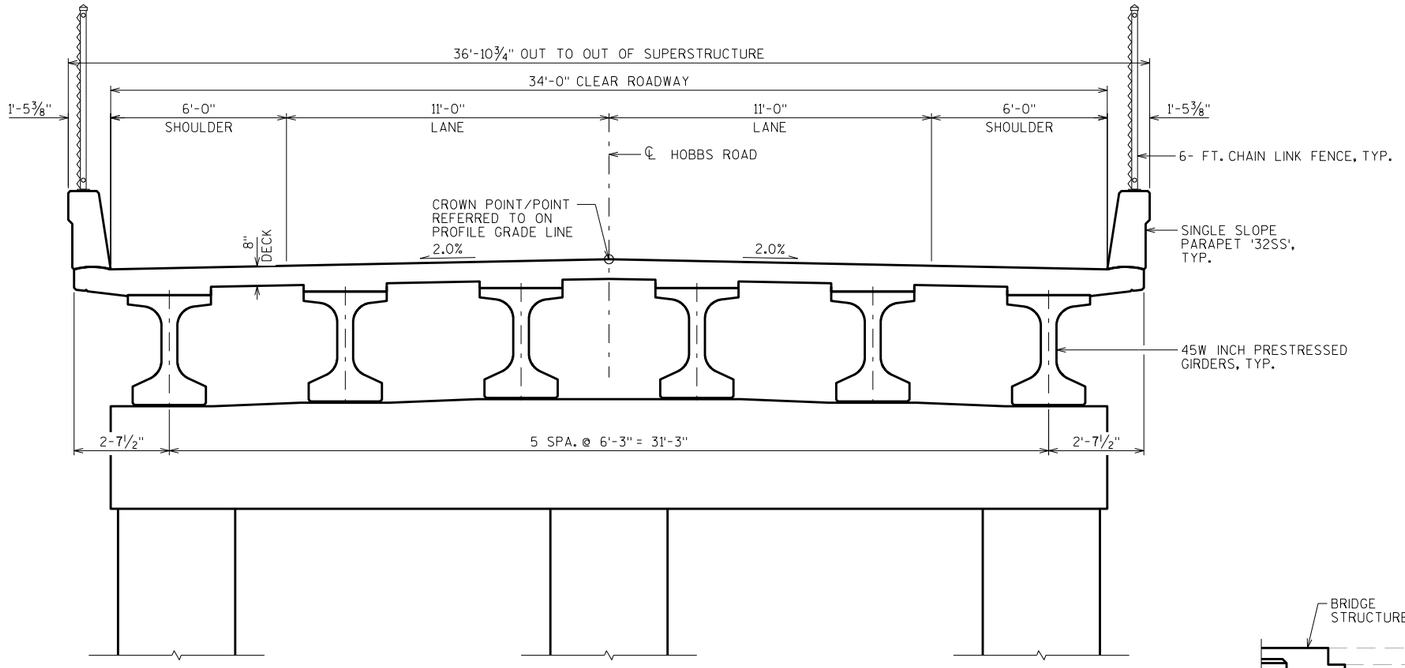
DESIGNED BY	DFD	DESIGNED CK'D.	DLM	DRAWN BY	JDM	PLANS CK'D.	

GENERAL PLAN

SHEET 1 OF 18

I.D. 1021-03-04A DATE: MAY 2017

SCALE = 14.00



CROSS SECTION THRU ROADWAY

LOOKING NORTH

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAILS SHOWN IN THE PLANS

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON WINGS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 18 AND THE ABUTMENT DETAILS.

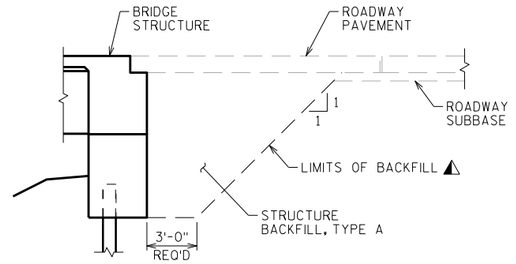
THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "45W PRESTRESSED GIRDER DETAILS 2" SHEET.

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

STATE PROJECT NUMBER
1021-03-74

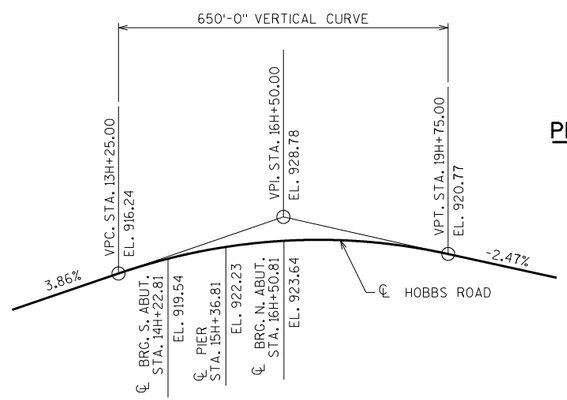
TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	SOUTH ABUT.	PIER	NORTH ABUT.	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 15H+37	LS	———	———	———	———	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-18-210	LS	———	———	———	———	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	———	219		210	429
502.0100	CONCRETE MASONRY BRIDGES	CY	348	54	76	53	531
502.3200	PROTECTIVE SURFACE TREATMENT	SY	873	———	———	———	873
502.3210	PIGMENTED SURFACE SEALER	SY	188	15	———	15	218
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	1,373	———	———	———	1,373
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		3,250	1,580	3,100	7,930
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	71,420	2,360	11,370	3,260	88,410
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	24	———	———	———	24
506.4000	STEEL DIAPHRAGMS B-18-210	EACH	20	———	———	———	20
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	———	11	———	11	22
550.2106	PILING CIP CONCRETE 10 3/4" X 0.365-INCH	LF	———	1,105	3,420	1,105	5,630
604.0400	SLOPE PAVING CONCRETE	SY	———	14	———	14	28
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	———	84	———	84	168
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	———	2	———	2	4
SPV.0090	FENCE CHAIN LINK POLYMER COATED 6-FT.	LF	465	35	———	35	535
	NON-BID ITEMS						
	FILLER	SIZE	———	———	———	———	½", ¾", 1½"

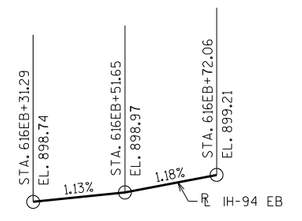


TYPICAL SECTION THRU ABUTMENT

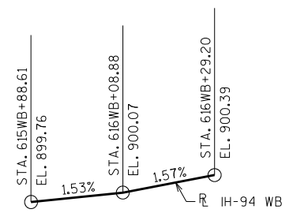
⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.



PROFILE GRADE LINE - HOBBS ROAD



PROFILE GRADE LINE - IH-94 EB



PROFILE GRADE LINE - IH-94 WB

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM | PLANS CK'D.

CROSS SECTION & QUANTITIES

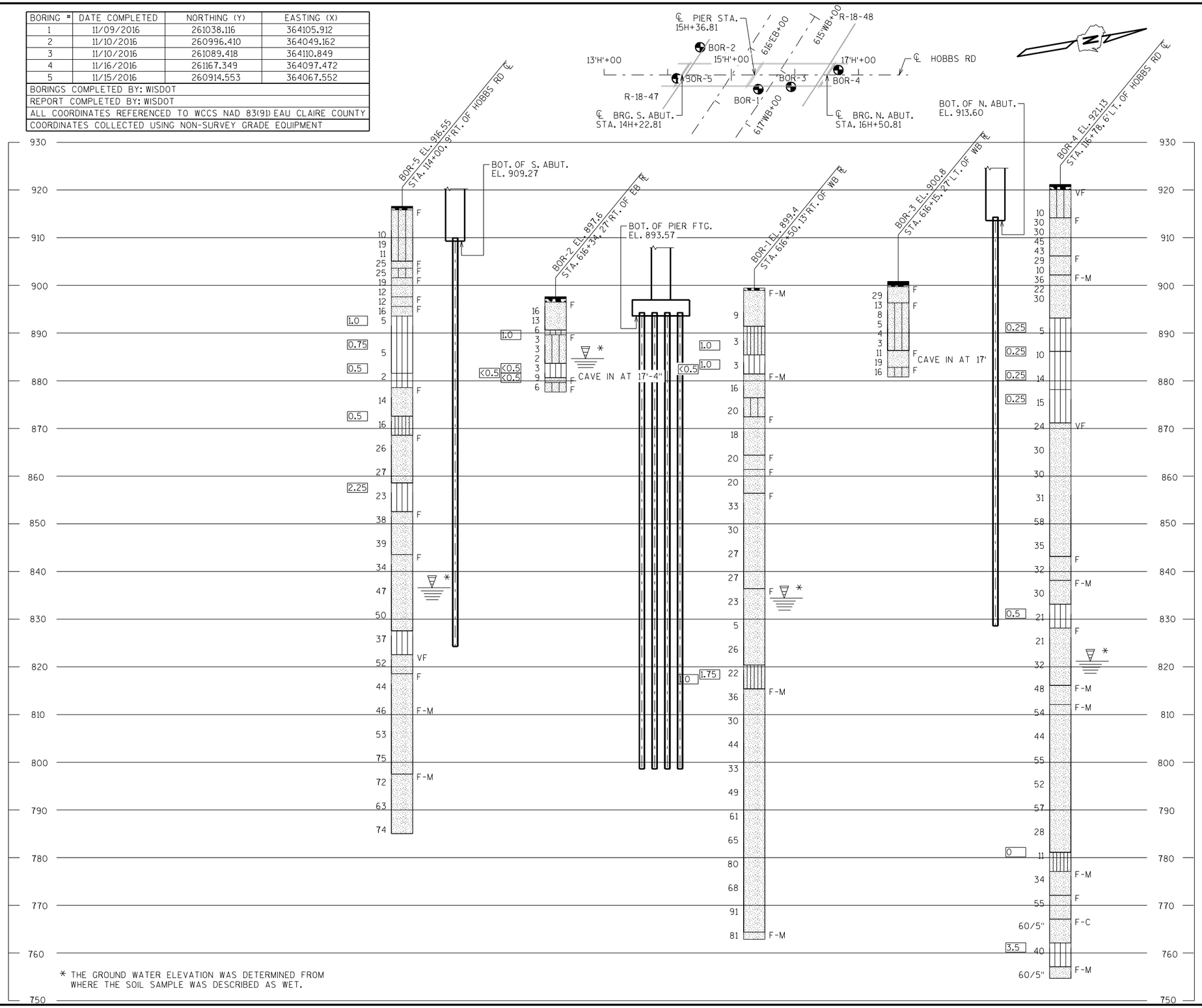
SHEET 2

SCALE = 2.50

8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	11/09/2016	261038.116	364105.912
2	11/10/2016	260996.410	364049.162
3	11/10/2016	261089.418	364110.849
4	11/16/2016	261167.349	364097.472
5	11/15/2016	260914.553	364067.552
BORINGS COMPLETED BY: WISDOT			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) EAU CLAIRE COUNTY			
COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT			



* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

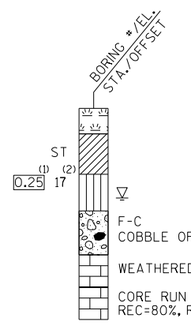
STATE PROJECT NUMBER

1021-03-74

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM/ TLP | PLANS CK'D.

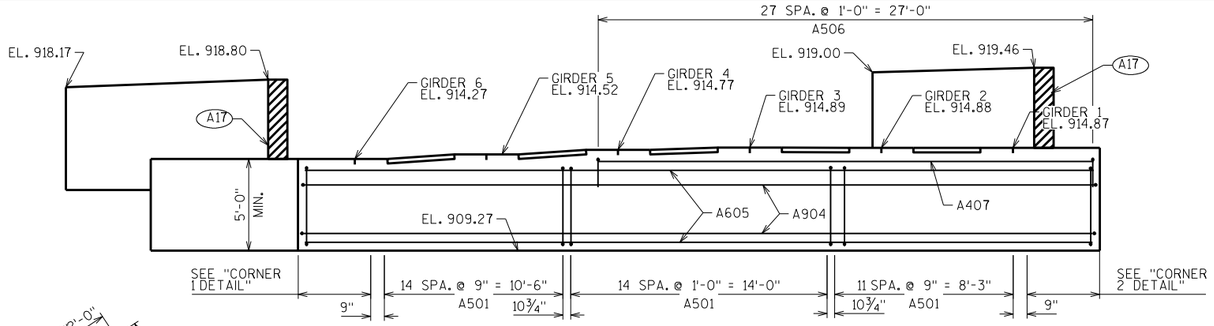
SUBSURFACE EXPLORATION

SHEET 3

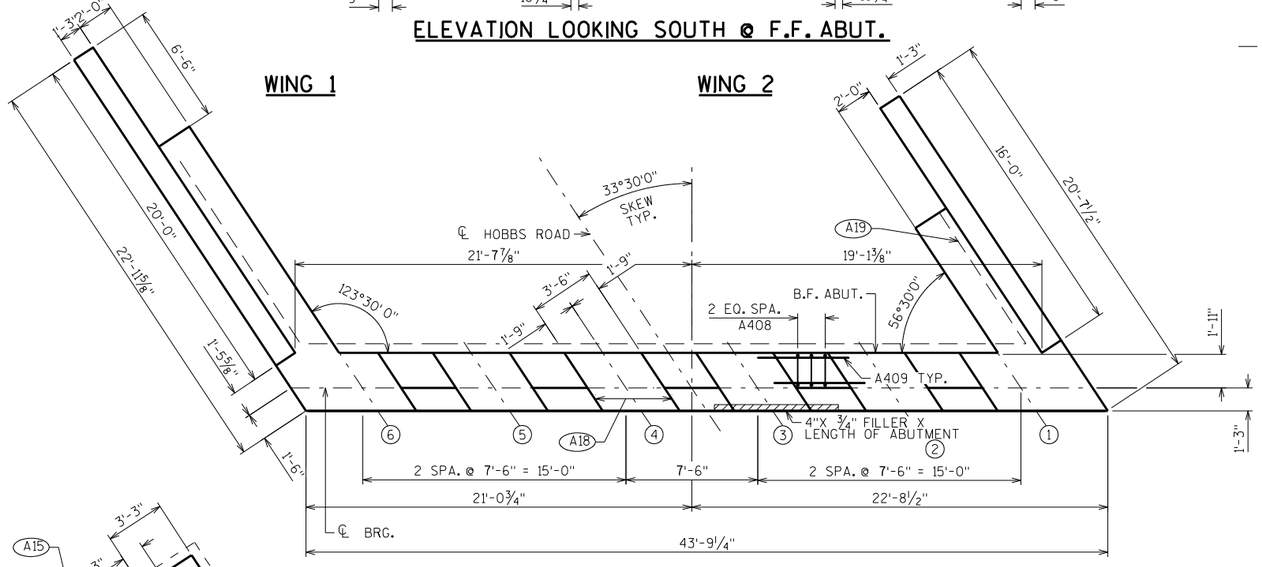
SCALE = 75.00

STATE PROJECT NUMBER

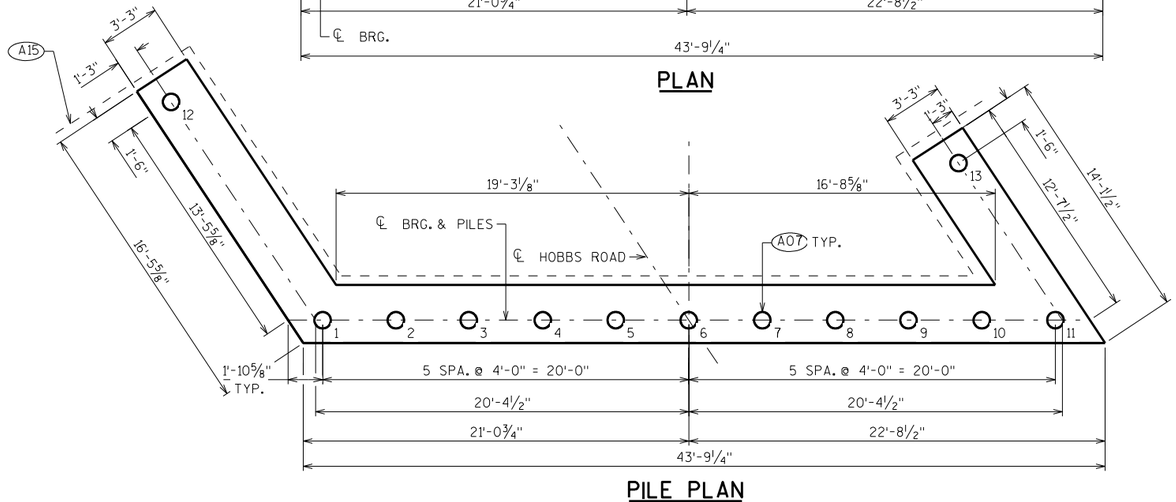
1021-03-74



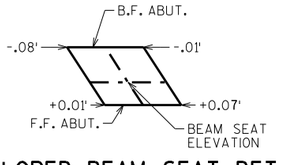
ELEVATION LOOKING SOUTH @ F.F. ABUT.



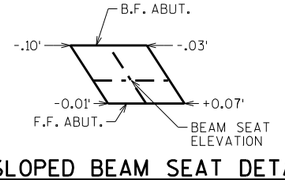
PLAN



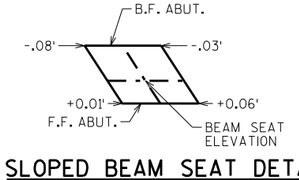
PILE PLAN



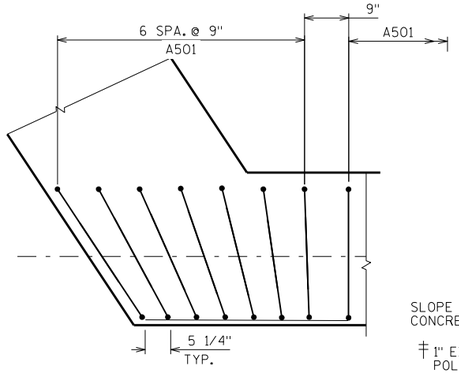
SLOPED BEAM SEAT DETAIL GIRDER 1



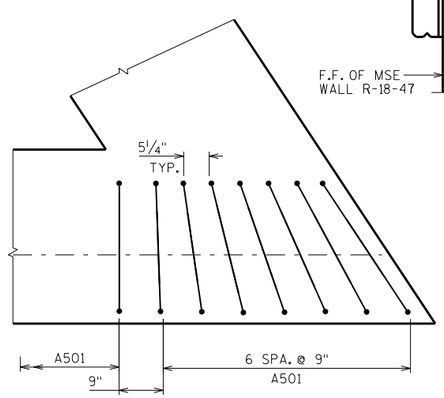
SLOPED BEAM SEAT DETAIL GIRDERS 6



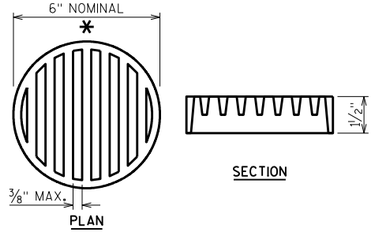
SLOPED BEAM SEAT DETAIL GIRDERS 2, 3, 4, AND 5



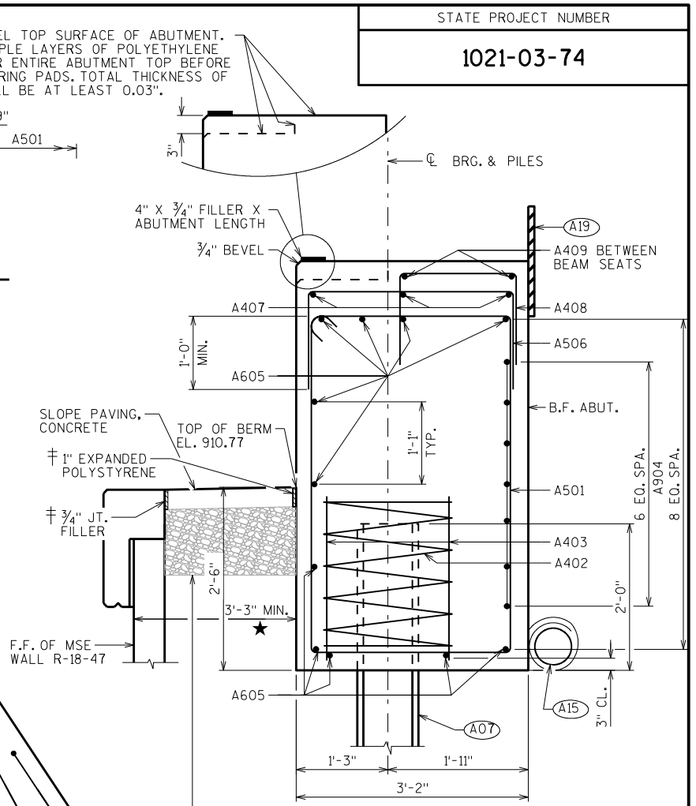
CORNER 1 DETAIL



CORNER 2 DETAIL



RODENT SHIELD DETAIL



SECTION THRU BODY

SIZE 2 COARSE AGGREGATE. COST INCIDENTAL TO BID ITEM "SLOPE PAVING CONCRETE"

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

★ DIMENSION NOTED BASED ON ASSUMED MSE WALL PANEL THICKNESS OF 9".

(A07) SUPPORT ABUTMENT ON 10¾" X 0.365 INCH CIP PILING, ESTIMATED 85'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY	PLANS CK'D.
JDM	

SOUTH ABUTMENT

SHEET 4

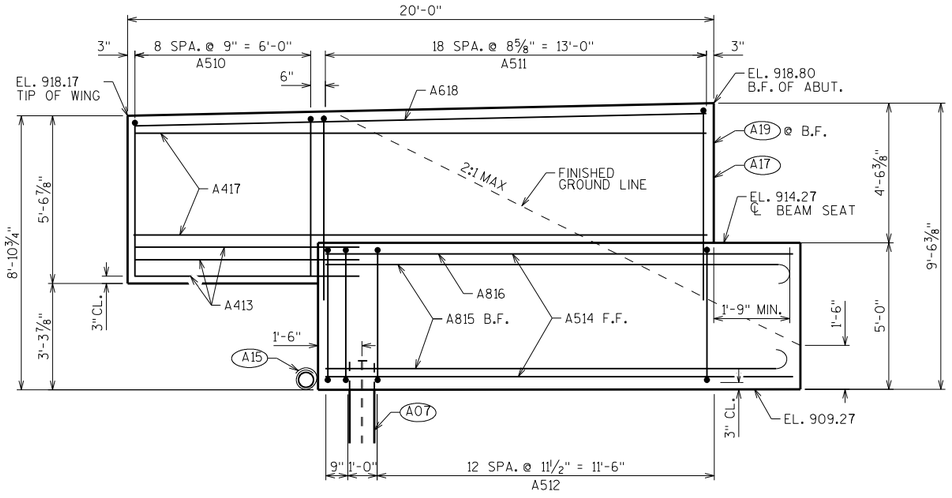
SCALE = 4.00

8

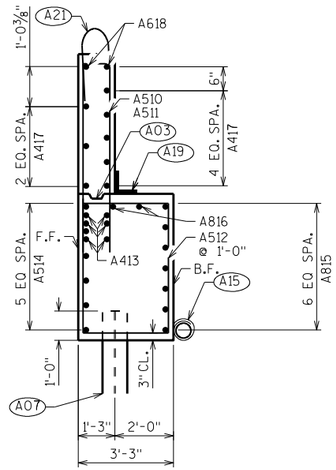
8

STATE PROJECT NUMBER

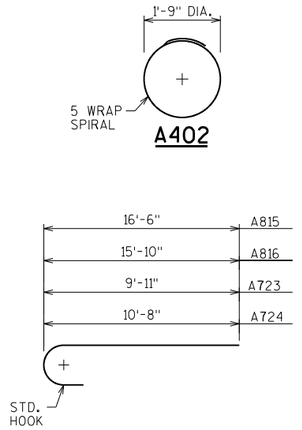
1021-03-74



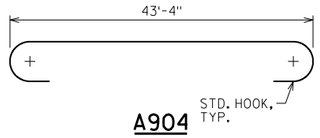
WING 1 ELEVATION



WING 1 SECTION



A815, A816, A723, A724

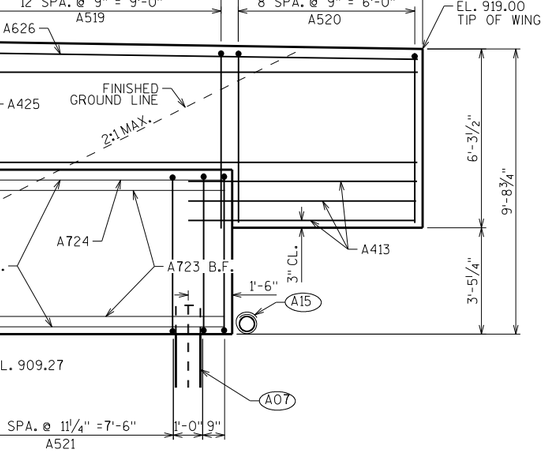


A904

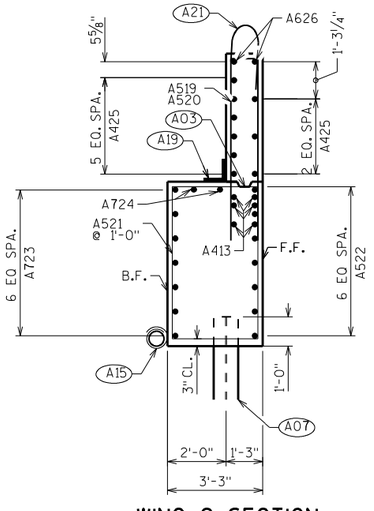
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

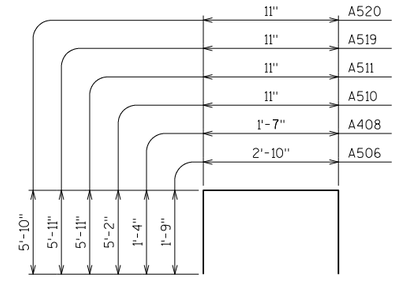
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		56	15'-3"	X		BODY-STIRRUP
A402		11	28'-0"	X		BODY-1 PER BODY PILE
A403		22	2'-3"			BODY- 2 PER BODY PILE-VERT.
A904		7	45'-10"	X		BODY-HORIZ.-B.F.
A605		11	43'-5"			BODY-HORIZ.
A506		28	6'-1"	X		BODY-VERT.-TOP-UNDER G1-G4
A407		3	27'-0"			BODY-HORIZ.-TOP-UNDER G1-G4
A408		15	4'-1"	X		BODY-VERT.-TOP-BTWN. BEAM SEATS
A409		10	5'-3"			BODY-HORIZ.-TOP-BTWN. BEAM SEATS
A510	X	9	11'-0"	X		WING 1-VERT.
A511	X	19	12'-6"	X		WING 1-VERT.
A512	X	15	15'-8"	X		WING 1-STIRRUP
A413	X	12	7'-8"			WING 1& 2-HORIZ.-F.F.& B.F.
A514	X	6	16'-0"			WING 1-HORIZ.-F.F.
A815	X	7	17'-5"	X		WING 1-HORIZ.-B.F.
A816	X	2	16'-9"	X		WING 1-HORIZ.
A417	X	8	19'-6"			WING 1-HORIZ.-F.F. & B.F.
A618	X	2	19'-6"			WING 1-HORIZ.-TOP-F.F. & B.F.
A519	X	13	12'-6"	X		WING 2-VERT.
A520	X	9	12'-4"	X		WING 2-VERT.
A521	X	11	16'-10"	X		WING-2-STIRRUP
A522	X	7	13'-9"			WING 2-HORIZ.-F.F.
A723	X	7	10'-9"	X		WING 2-HORIZ.-B.F.
A724	X	2	11'-6"	X		WING 2-HORIZ.
A425	X	9	15'-6"			WING 2-HORIZ.-B.F. & F.F.
A626	X	2	15'-6"			WING 2-HORIZ.-TOP-B.F. & F.F.



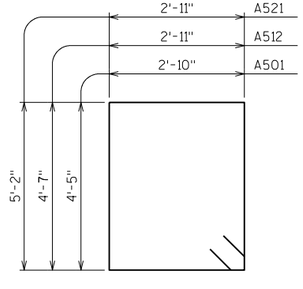
WING 2 ELEVATION



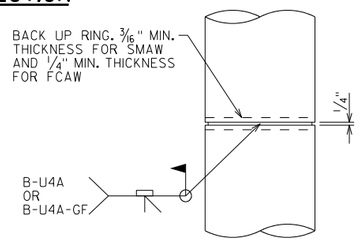
WING 2 SECTION



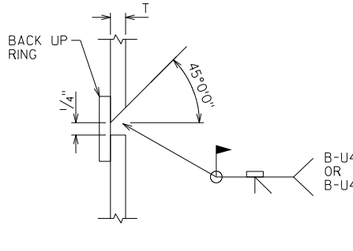
A506, A408, A510, A511, A519, A520



A501, A512, A521



CAST-IN-PLACE 'PIPE PILE'



C.I.P. PILE WELD DETAIL

PILE DETAILS

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2X6. (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).

(A07) SUPPORTED ABUTMENT ON 10¾" X 0.365 - INCH CIP PILING, ESTIMATED 85'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% , MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A21) FOR PPT. BARS. & DIMENSIONS SEE "SINGLE SLOPE PARAPET 32SS" SHEET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM | PLANS CK'D.

SOUTH ABUTMENT DETAILS

SHEET 5

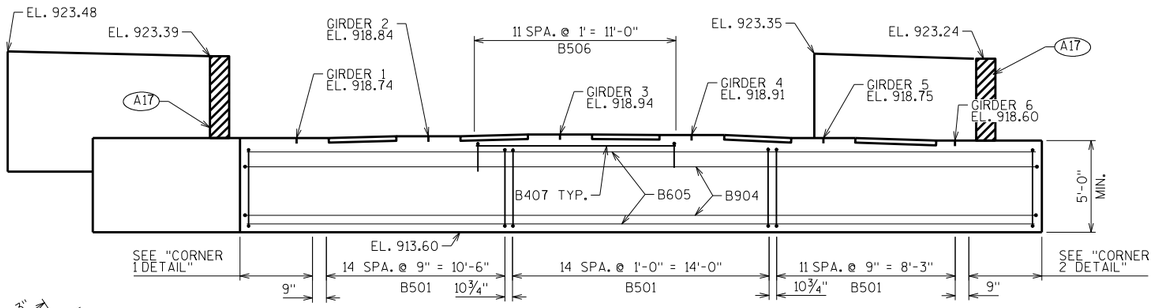
SCALE = 2.50

8

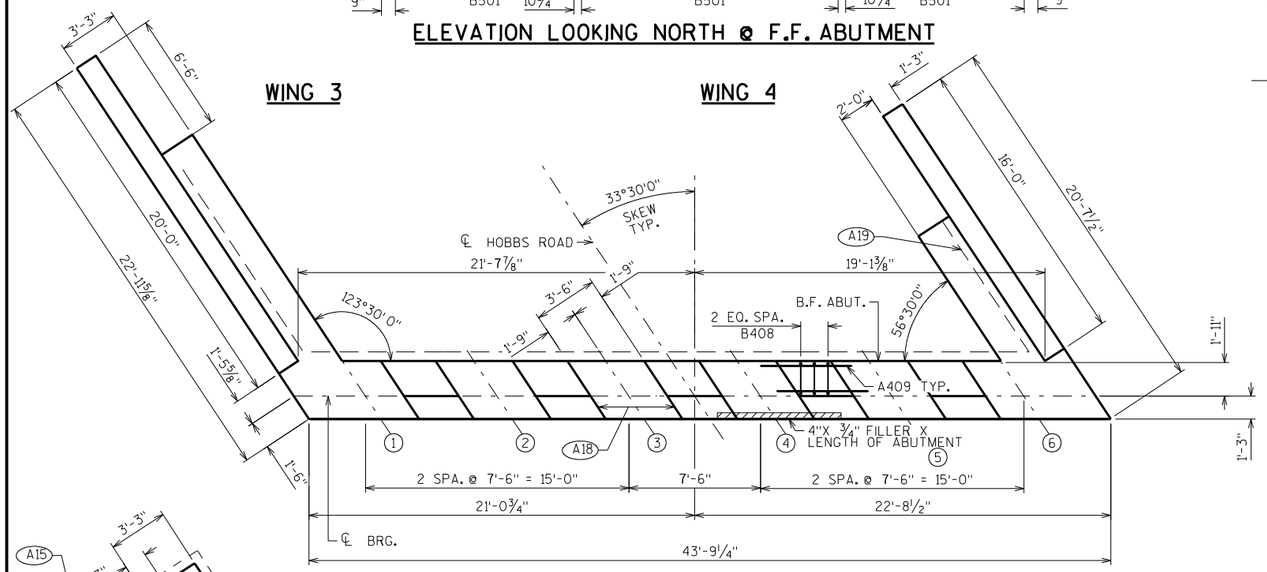
8

STATE PROJECT NUMBER

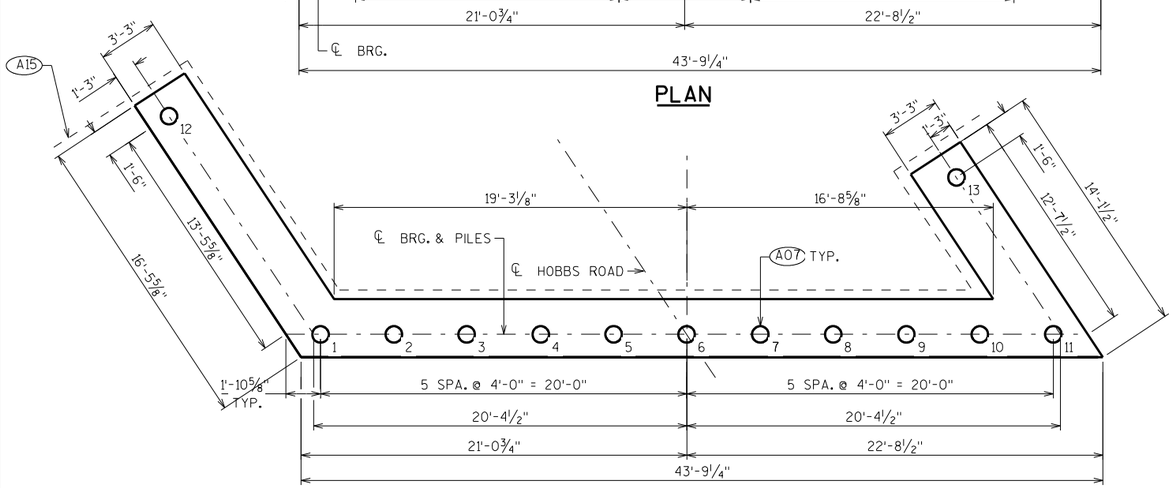
1021-03-74



ELEVATION LOOKING NORTH @ F.F. ABUTMENT

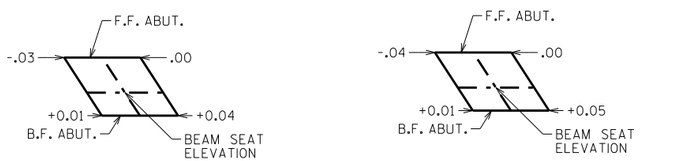


PLAN



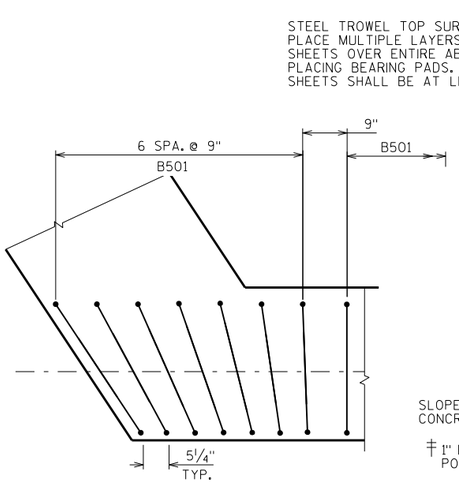
PILE PLAN

SLOPED BEAM SEAT DETAIL GIRDERS 1 AND 5

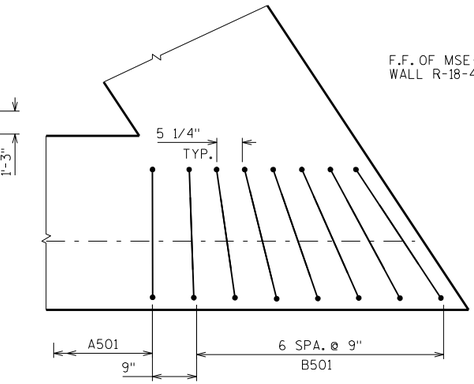


SLOPED BEAM SEAT DETAIL GIRDERS 2, 3, AND 4

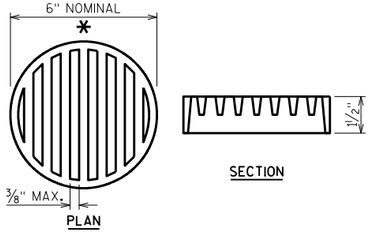
SLOPED BEAM SEAT DETAIL GIRDER 6



CORNER 1 DETAIL



CORNER 2 DETAIL



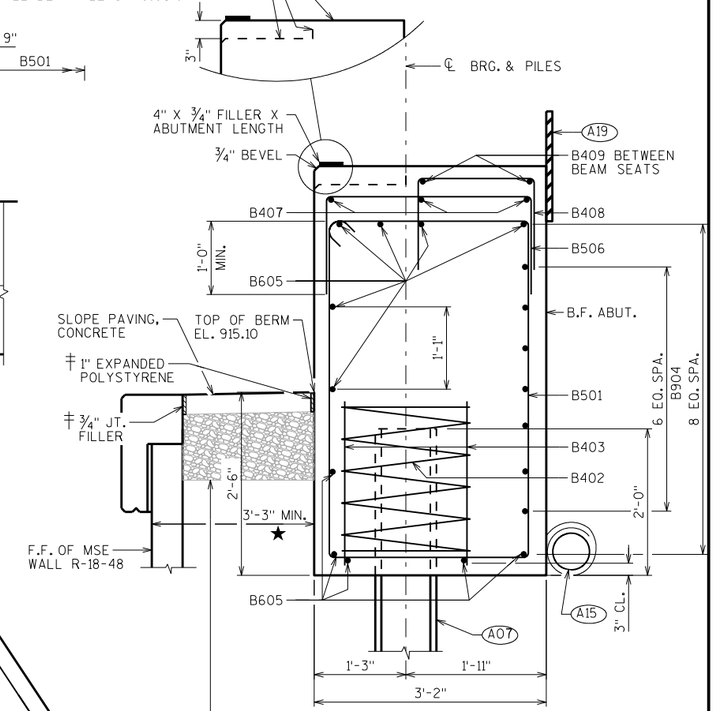
RODENT SHIELD DETAIL

✱ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".



SECTION THRU BODY

SIZE 2 COARSE AGGREGATE. COST INCIDENTAL TO BID ITEM "SLOPE PAVING CONCRETE"

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

★ DIMENSION NOTED BASED ON ASSUMED MSE WALL PANEL THICKNESS OF 9".

(A07) SUPPORT ABUTMENT ON 10¾" X 0.365 INCH CIP PILING, ESTIMATED 85'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM | PLANS CK'D.

NORTH ABUTMENT

SHEET 6

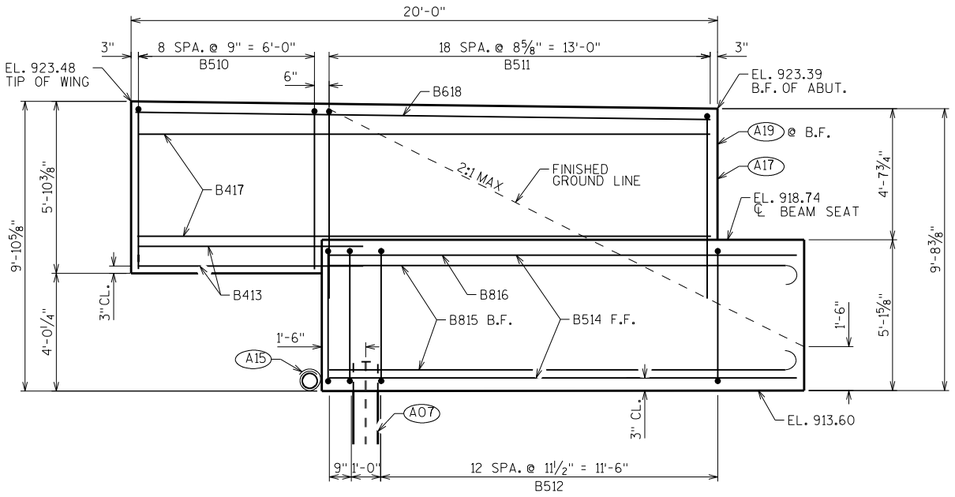
SCALE = 4.00

8

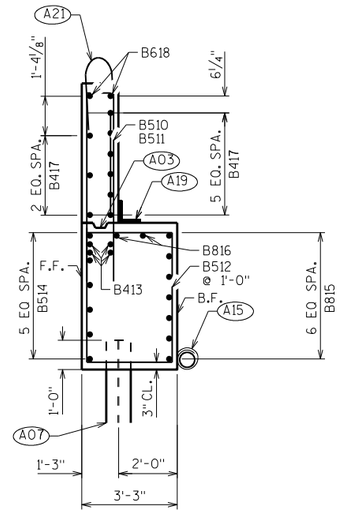
8

STATE PROJECT NUMBER

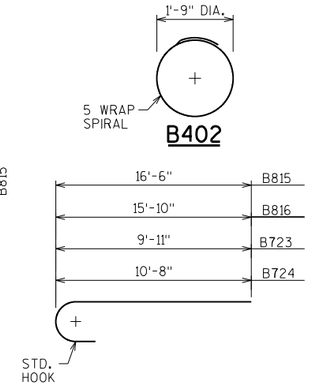
1021-03-74



WING 3 ELEVATION



WING 3 SECTION

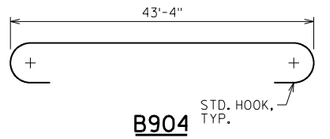


B815, B816, B723, B724

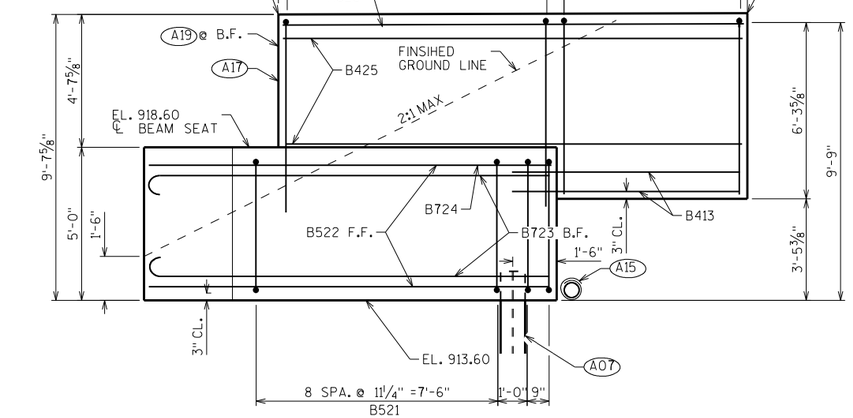
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

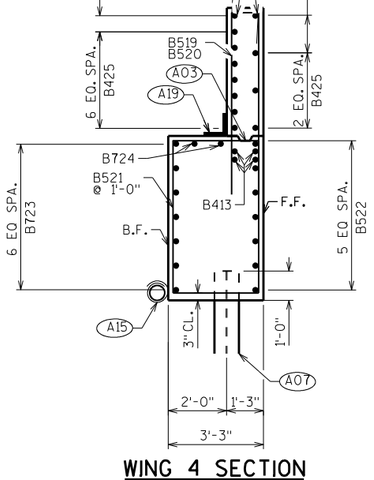
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		56	15'-2"	X		BODY-STIRRUP
B402		11	28'-0"	X		BODY-1 PER BODY PILE
B403		22	2'-3"			BODY- 2 PER BODY PILE-VERT.
B904		7	45'-10"			BODY-HORIZ.-B.F.
B605		11	43'-5"			BODY-HORIZ.
B506		12	6'-1"	X		BODY-VERT.-TOP-UNDER G1-G5
B407		3	11'-0"			BODY-HORIZ.-TOP-UNDER G1-G5
B408		13	4'-1"	X		BODY-VERT.-TOP-BTWN. BEAM SEATS
B409		10	5'-3"			BODY-HORIZ.-TOP-BTWN. BEAM SEATS
B510	X	9	11'-0"	X		WING 3-VERT.
B511	X	19	13'-4"	X		WING 3-VERT.
B512	X	15	16'-4"	X		WING 3-STIRRUP
B413	X	8	7'-8"			WING 3& 4-HORIZ.-F.F.& B.F.
B514	X	6	16'-0"			WING 3-HORIZ.-F.F.
B815	X	7	17'-5"	X		WING 3-HORIZ.-B.F.
B816	X	2	16'-9"	X		WING 3-HORIZ.
B417	X	9	19'-6"			WING 3-HORIZ.-F.F. & B.F.
B618	X	2	19'-6"			WING 3-HORIZ.-TOP-F.F. & B.F.
B519	X	13	13'-2"	X		WING 4-VERT.
B520	X	9	12'-0"	X		WING 4-VERT.
B521	X	11	15'-8"	X		WING-4-STIRRUP
B522	X	6	13'-9"			WING 4-HORIZ.-F.F.
B723	X	7	10'-9"	X		WING 4-HORIZ.-B.F.
B724	X	2	11'-6"	X		WING 4-HORIZ.
B425	X	10	15'-6"			WING 4-HORIZ.-B.F. & F.F.
B626	X	2	15'-6"			WING 4-HORIZ.-TOP-B.F. & F.F.



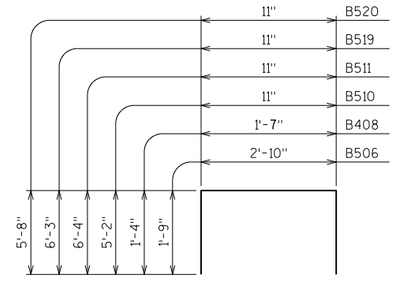
B904



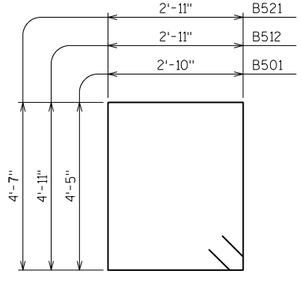
WING 4 ELEVATION



WING 4 SECTION



B506, B408, B510, B511, B519, B520



B501, B512, B521

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2X6. (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).

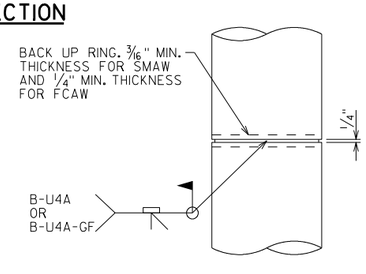
(A07) SUPPORTED ABUTMENT ON 10¾" X 0.365 - INCH CIP PILING, ESTIMATED 85'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% , MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

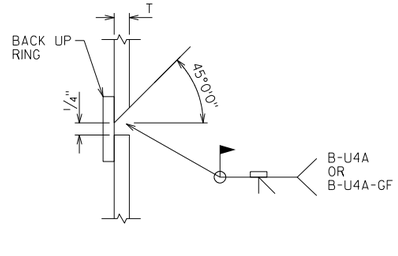
(A17) ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A21) FOR PPT. BARS. & DIMENSIONS SEE "SINGLE SLOPE PARAPET 32SS" SHEET.



CAST-IN-PLACE 'PIPE PILE'



C.I.P. PILE WELD DETAIL

PILE DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM | PLANS CK'D.

NORTH ABUTMENT DETAILS

SHEET 7

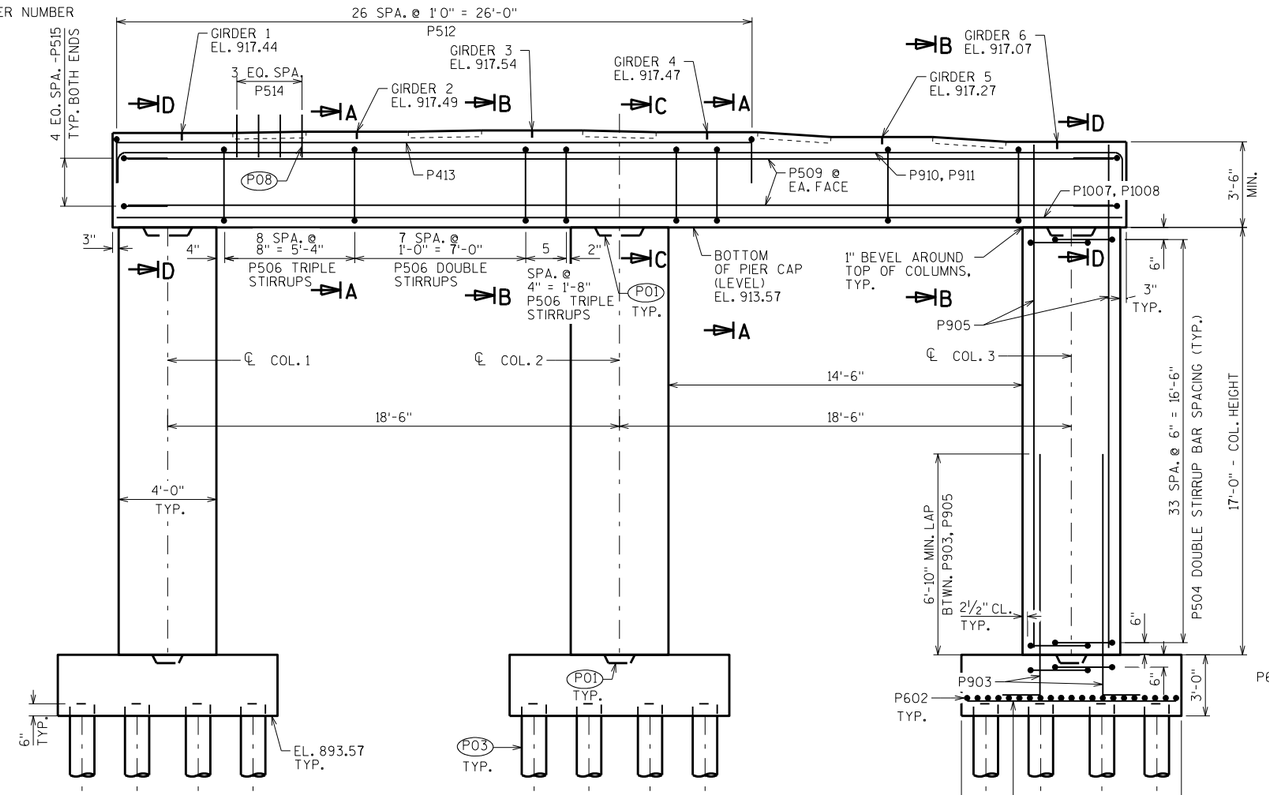
SCALE = 2.50

8

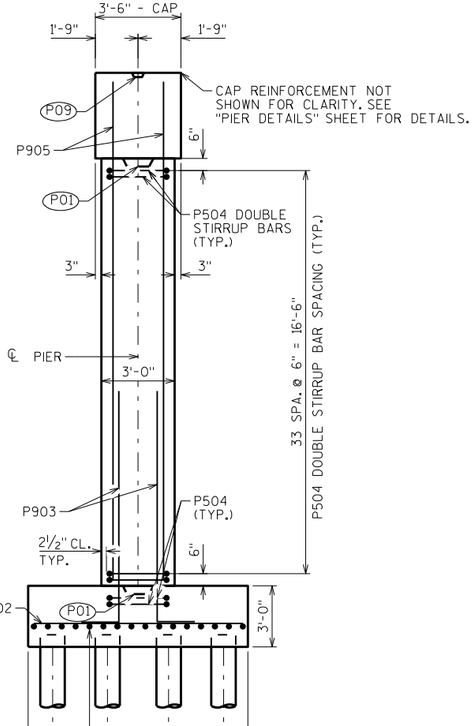
8

STATE PROJECT NUMBER
1021-03-74

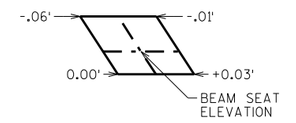
INDICATES GIRDER NUMBER



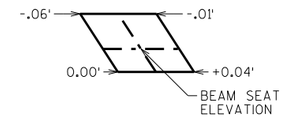
ELEVATION LOOKING NORTH



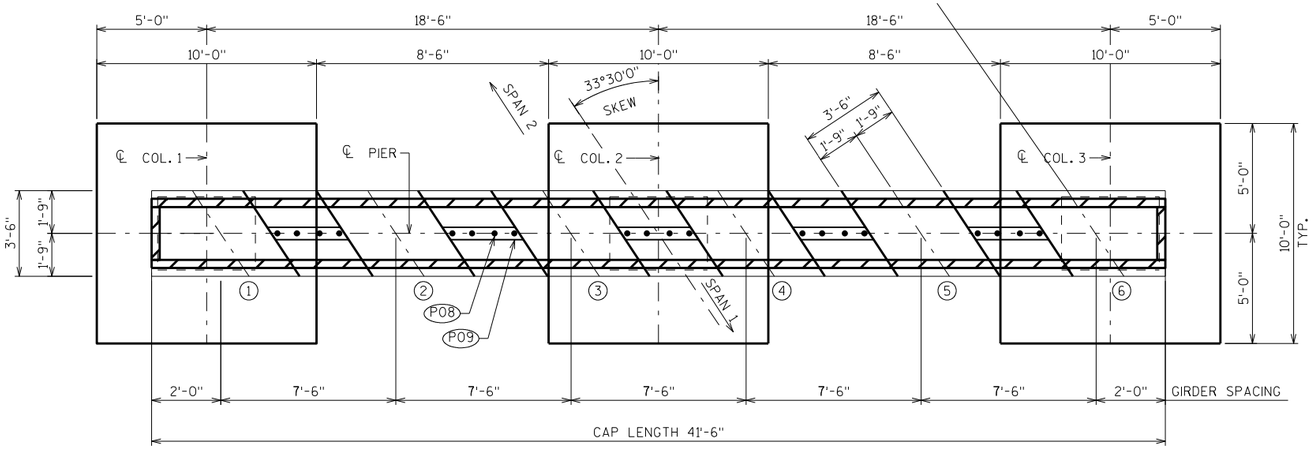
SECTION THRU PIER



SLOPED BEAM SEAT DETAIL GIRDERS 1, 2, 3, 4 AND 5



SLOPED BEAM SEAT DETAIL GIRDER 6



PLAN

P01 1'-3" X 2'-0" X 4" CONST. JOINT FORMED BY BEVELED KEYWAY.

P03 SUPPORT PIER ON 10¾" X 0.365" - INCH CIP PILING CASING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 150 TONS. ESTIMATED 95' LONG.

P08 P514 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYED CONST. JOINT-FORMED BY BEVELED 2 X 6 BETWEEN BEAM SEATS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM | PLANS CK'D.

PIER

SHEET 8

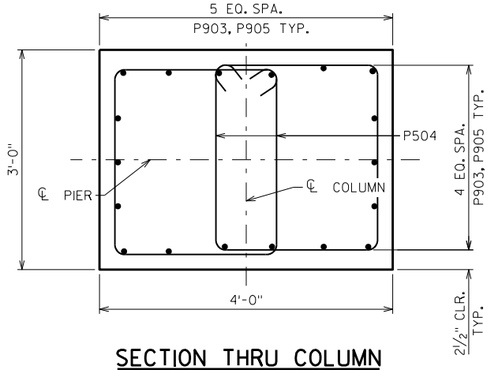
SCALE = 3.00

8

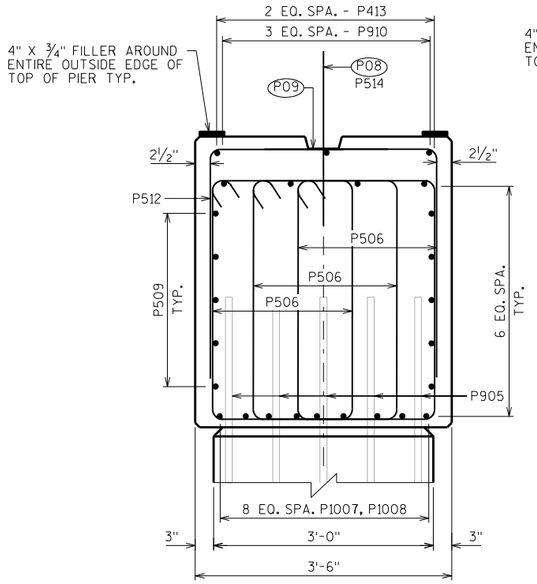
8

STATE PROJECT NUMBER

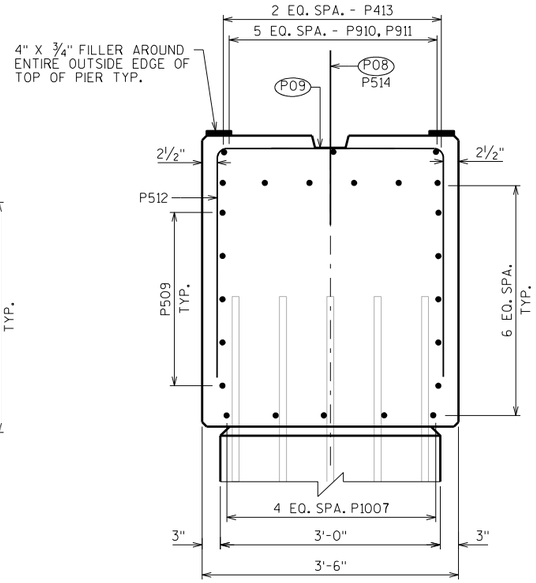
1021-03-74



SECTION THRU COLUMN



CAP SECTION A-A

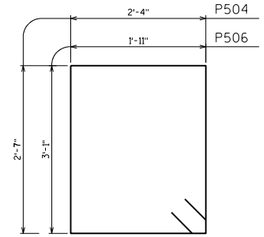


CAP SECTION C-C

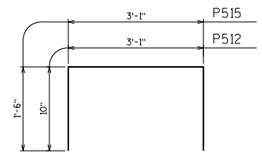
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

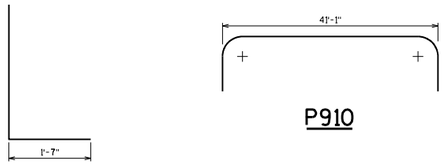
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
P601		48	9'-6"			FOOTINGS-BOT.-HORIZ.-LONGIT.
P602		63	9'-6"			FOOTINGS-BOT.-HORIZ.-TRANS.
P903	X	54	8'-4"	X		FOOTINGS-COLUMNS-VERT.-ALL FACES
P504	X	210	9'-8"	X		COLUMNS-HORIZ.-STIRRUPS
P905	X	54	20'-0"			COLUMNS-VERT.-ALL FACES
P506	X	112	10'-8"	X		CAP-VERT.- STIRRUPS
P1007	X	5	41'-1"			CAP-HORIZ.-BOT.-LONGIT.
P1008	X	8	14'-6"			CAP-HORIZ.-BOT.-LONGIT.-BTWN COLUMNS
P509	X	10	41'-1"			CAP-HORIZ.-LONGIT.-BOTH FACES
P910	X	4	43'-9"	X		CAP-HORIZ.-LONGIT.-TOP
P911	X	2	16'-6"			CAP-HORIZ.-LONGIT.-TOP-OVER COL. 2
P512	X	27	4'-6"	X		CAP-TOP-VERT.-TRANSVERSE-BELOW G1-G4
P413	X	3	26'-0"			CAP-TOP-HORIZ.-LONGIT.-BELOW G1-G4
P514	X	20	2'-0"			CAP-DOWELS
P515	X	10	5'-10"	X		CAP-HORIZ.-AT ENDS



P504, P506



P512, P515



P910

P903

TYPICAL FOOTING/PILE PLAN

CAP SECTION B-B

CAP SECTION D-D

P01 1'-3" X 2'-0" X 4" CONST. JOINT FORMED BY BEVELED KEYWAY.

P05 SUPPORT PIER ON 10¾" X 0.365 - INCH CIP PILING, ESTIMATED 95'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE.

P08 P514 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYED CONST. JOINT-FORMED BY BEVELED 2 X 6 BETWEEN BEAM SEATS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM | PLANS CK'D.

PIER DETAILS

SHEET 9

SCALE = 1.50

8

8

STATE PROJECT NUMBER

1021-03-74

SPAN 1 DIAPHRAGM HOLE LOCATIONS

GIRDER	"D"	"E"	"F"	"G"	"H"
1	36'-0 5/8"		38'-11/2"		40'-2 3/8"
2	36'-0 5/8"	4'15/8"	38'-11/2"	4'-15/8"	36'-0 5/8"
3	36'-0 5/8"	4'15/8"	38'-11/2"	4'-15/8"	36'-0 5/8"
4	36'-0 5/8"	4'15/8"	38'-11/2"	4'-15/8"	36'-0 5/8"
5	36'-0 5/8"	4'15/8"	38'-11/2"	4'-15/8"	36'-0 5/8"
6	40'-2 3/8"		38'-11/2"		36'-0 5/8"

SPAN 2 DIAPHRAGM HOLE LOCATIONS

GIRDER	"D"	"E"	"F"	"G"	"H"
1	36'-0 5/8"		38'-11/2"		40'-2 3/8"
2	36'-0 5/8"	4'15/8"	38'-11/2"	4'-15/8"	36'-0 5/8"
3	36'-0 5/8"	4'15/8"	38'-11/2"	4'-15/8"	36'-0 5/8"
4	36'-0 5/8"	4'15/8"	38'-11/2"	4'-15/8"	36'-0 5/8"
5	36'-0 5/8"	4'15/8"	38'-11/2"	4'-15/8"	36'-0 5/8"
6	40'-2 3/8"		38'-11/2"		36'-0 5/8"

NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER OR EPOXY TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECT. 503.3.3 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

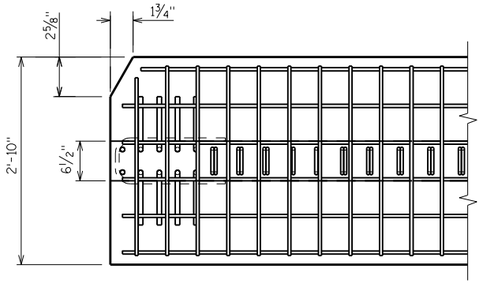
ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

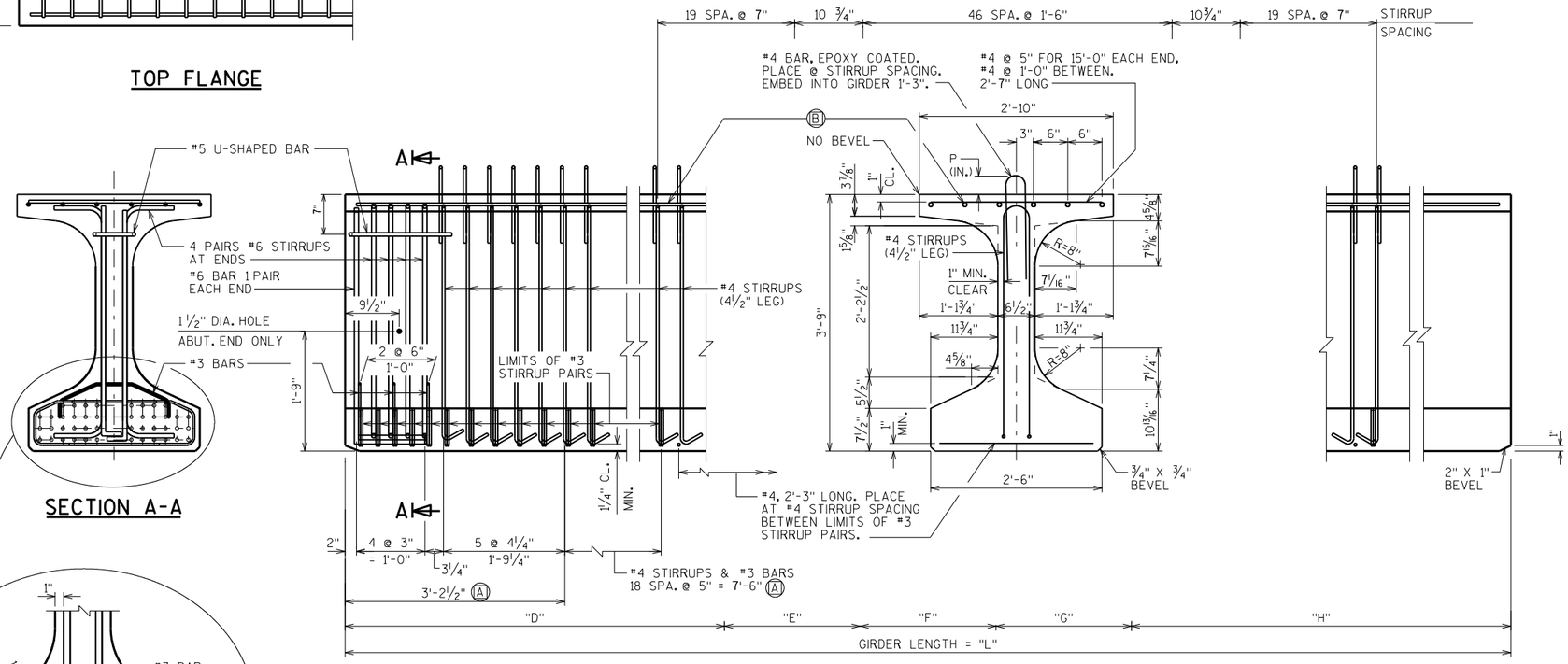
AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A1064 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.



TOP FLANGE

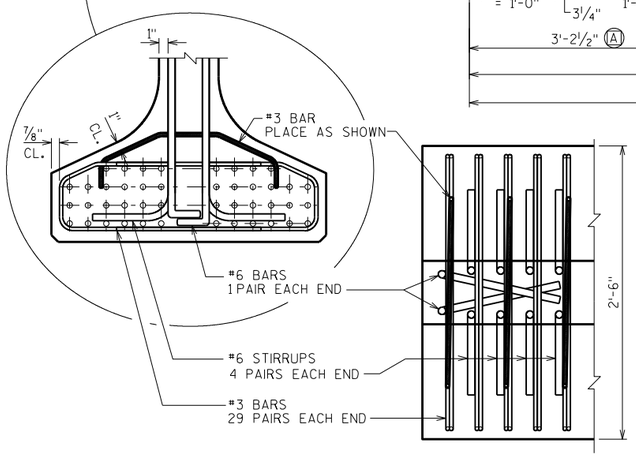


SECTION A-A

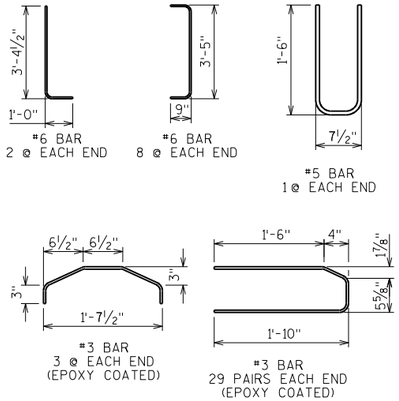
SIDE VIEW & TYPICAL SECTION IN SPAN

(A) DETAIL TYP. AT EACH END

(B) 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11"



BOTTOM FLANGE



⁂ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) 1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	CONC. STRGTH. f'c (p.s.i.)	"P" 1ST 1/3 OF GIRDER	"P" MID 1/3 OF GIRDER	"P" END 1/3 OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.) ⁂	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	UNDRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.) ⁂
1	1-6	114.38	0.8	1.5	2.1	2.5	2.6	2.4	2.1	1.5	0.8	8000	7	7	7	0.6	34	6400	40	13.75	16.75	5		
2	1-6	114.38	0.8	1.5	2.1	2.4	2.6	2.5	2.1	1.5	0.8	8000	7	7	7	0.6	34	6400	40	13.75	16.75	5		

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM | PLANS CK'D.

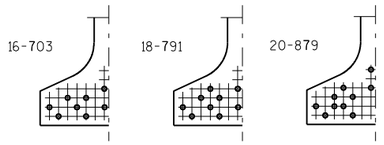
45W" PRESTRESSED GIRDER DETAILS 1

SHEET 10

SCALE = 1.00

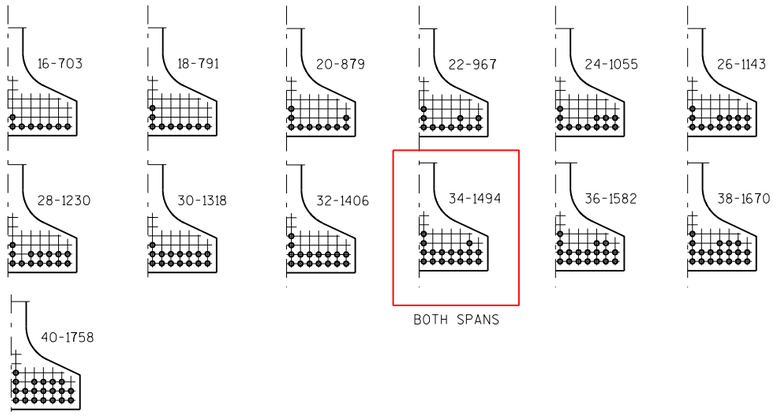
STATE PROJECT NUMBER

1021-03-74



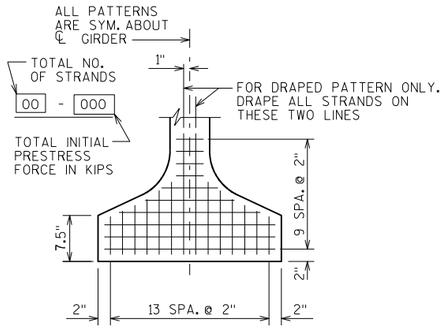
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"Φ STRANDS

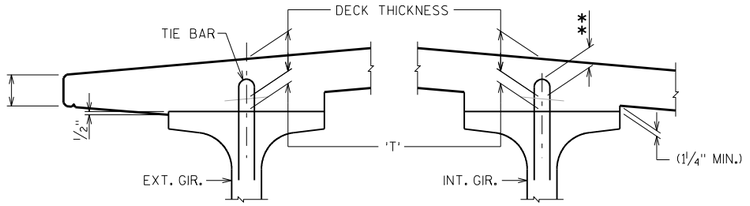


ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"Φ STRANDS



TYP. STRAND PATTERN



DECK HAUNCH DETAIL

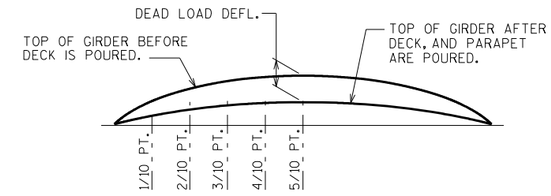
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

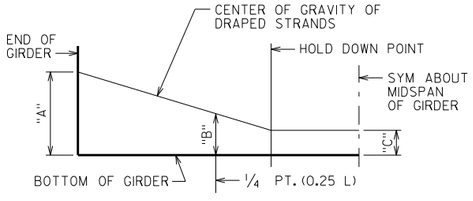
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- DECK THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 2¾" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM



DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER (IN.) *
1	3.75
2	3.75

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM | PLANS CK'D.

45W" PRESTRESSED GIRDER DETAILS 2

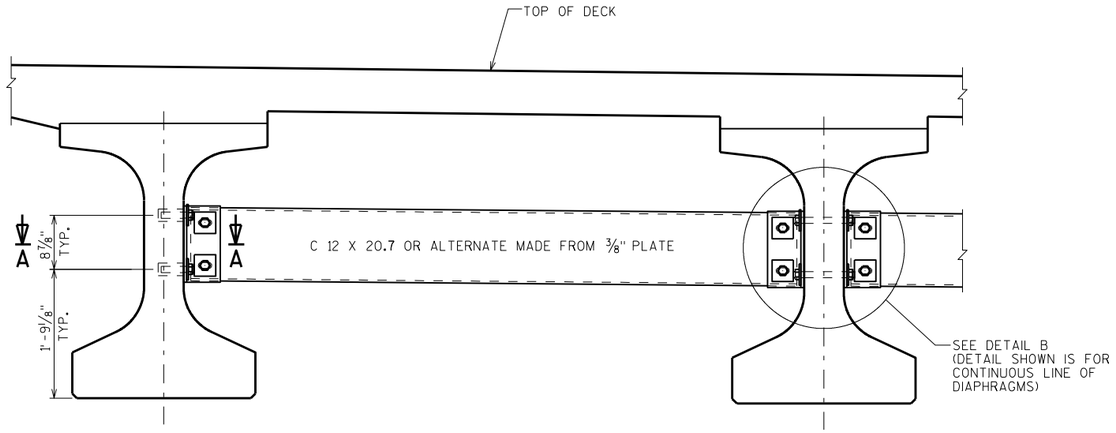
SHEET 11

SCALE = 1.00

8

8

STATE PROJECT NUMBER
1021-03-74



PART TRANSVERSE SECTION AT DIAPHRAGM

NOTES

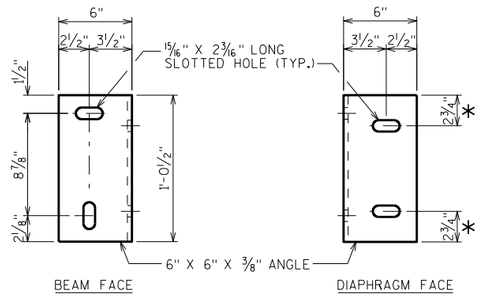
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-18-210", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

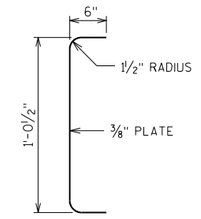
ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS ¼ TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.

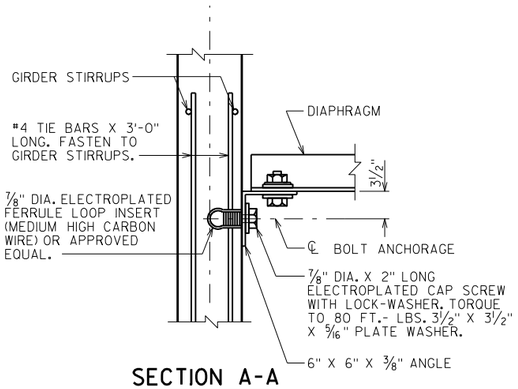


DIAPHRAGM SUPPORT

* 2½" FOR ALTERNATE PLATE DIAPHRAGM

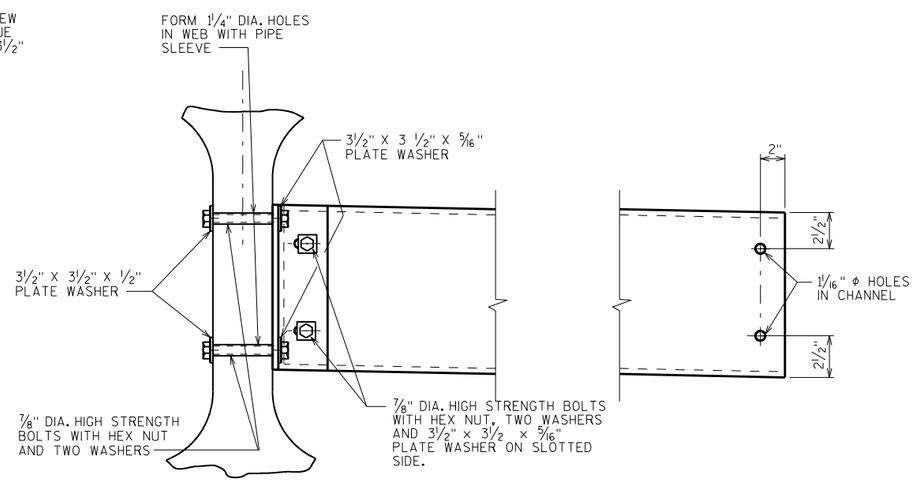


SECTION THRU ALTERNATE DIAPHRAGM



SECTION A-A

(FOR EXTERIOR ATTACHMENT)



DETAIL B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM | PLANS CK'D.

STEEL DIAPHRAGM

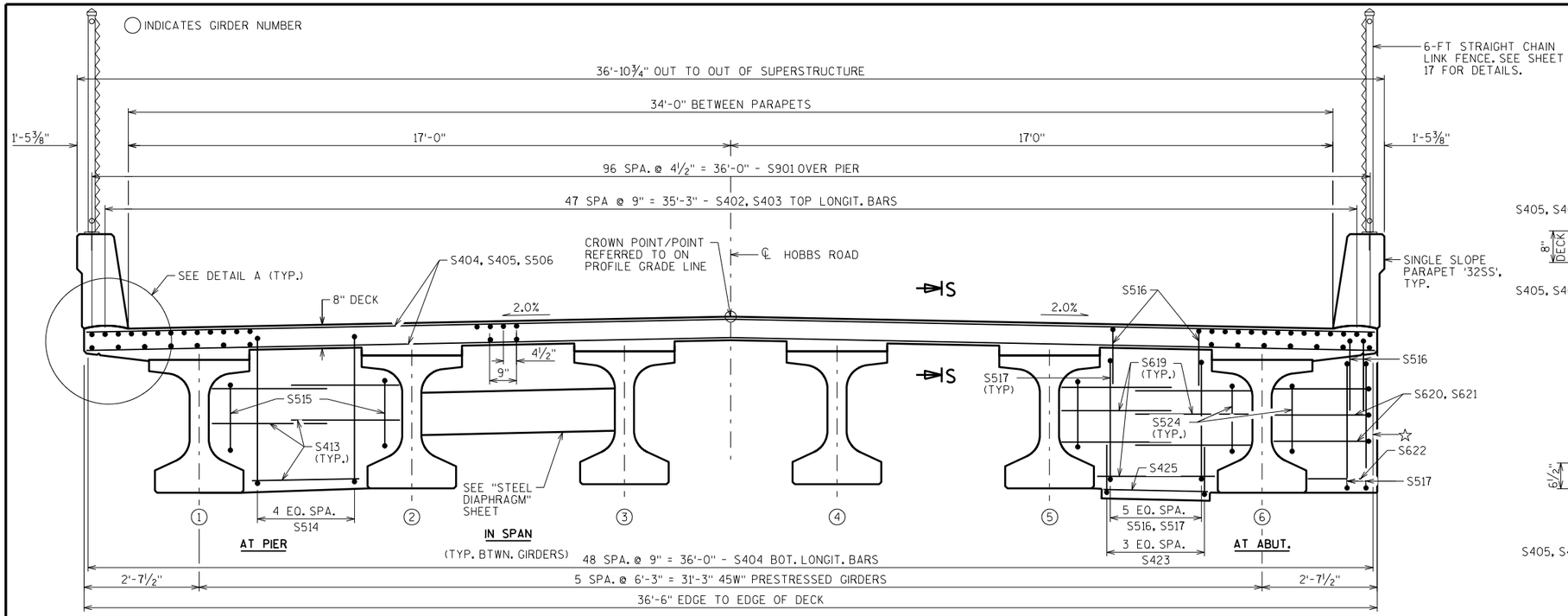
SHEET 12

SCALE = 1.00

8

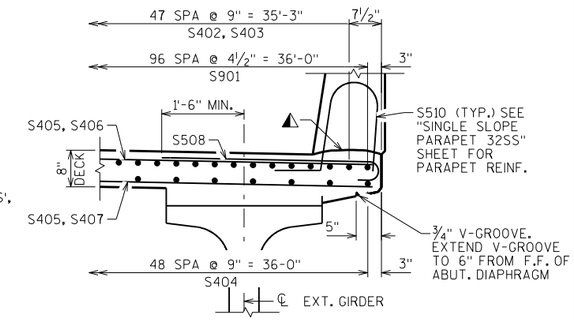
8

STATE PROJECT NUMBER
1021-03-74

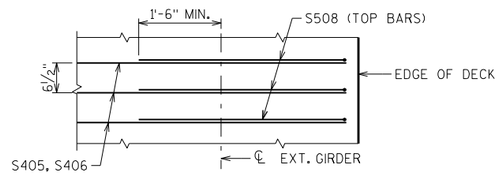


CROSS SECTION THRU ROADWAY

LOOKING NORTH

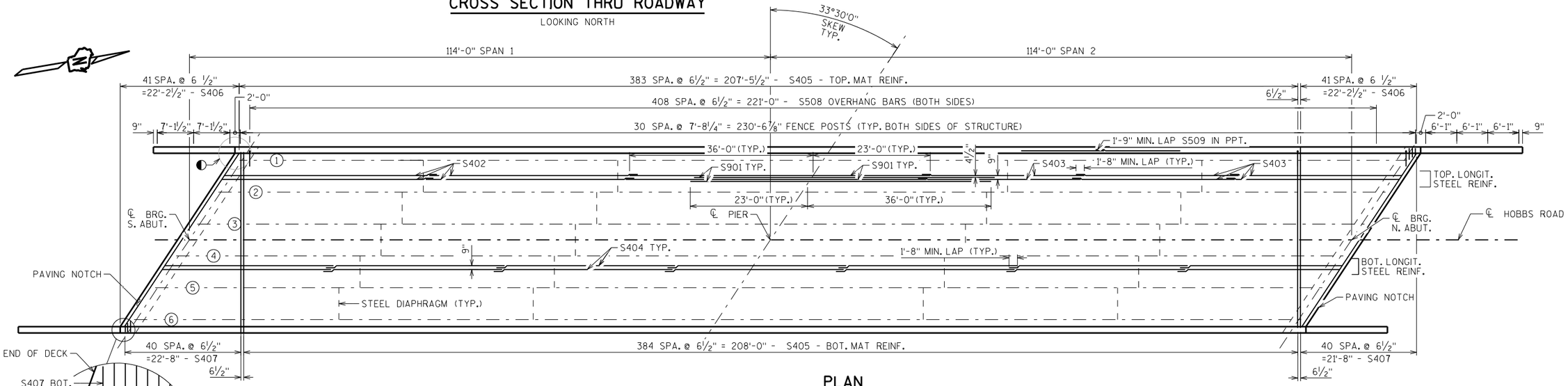


DETAIL A

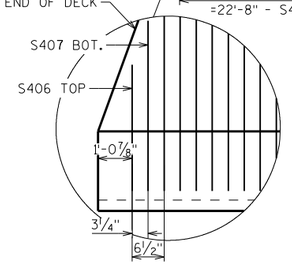


ADDITIONAL REINF. DETAIL

(TYP. AT BOTH SIDES OF DECK)

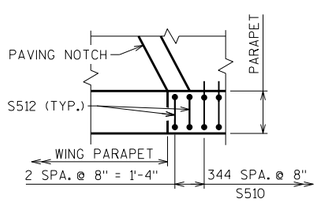


PLAN



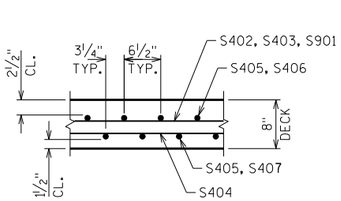
CORNER DETAIL

TYP. WINGS 1 AND 3



◐ DETAIL B

WING 1 SHOWN. OTHERS SIMILAR



SECTION S-S

⚠ HORIZONTAL CONSTRUCTION JOINT-STRIKE OFF AND LEAVE ROUGH AS SHOWN.

☆ 2 - S426 BARS. PLACE AT ENDS INSIDE OF U-BARS.

◐ SEE DETAIL B THIS SHEET FOR PARAPET DETAIL SEE SHEET 14 FOR DIAPHRAGM BAR DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM | PLANS CK'D.

SUPERSTRUCTURE

SHEET 13

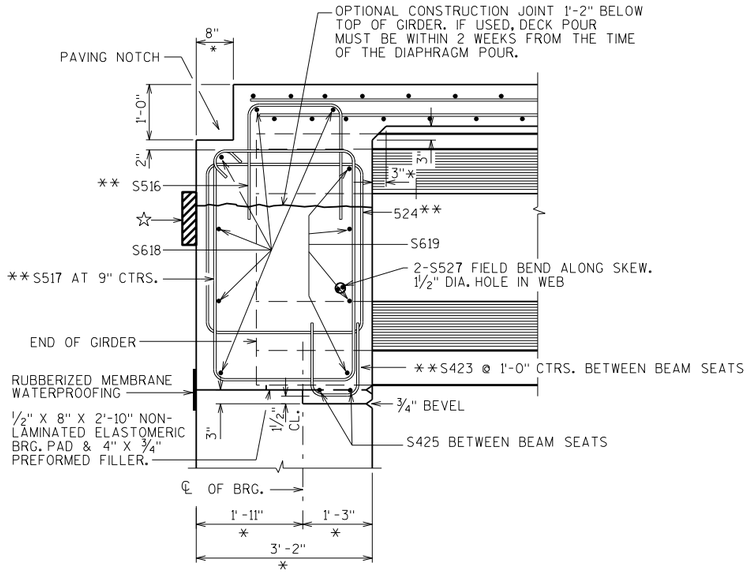
SCALE = 10.00

8

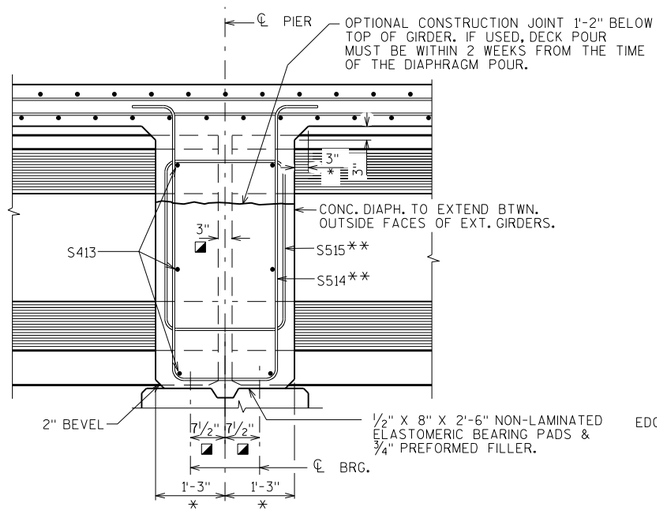
8

STATE PROJECT NUMBER

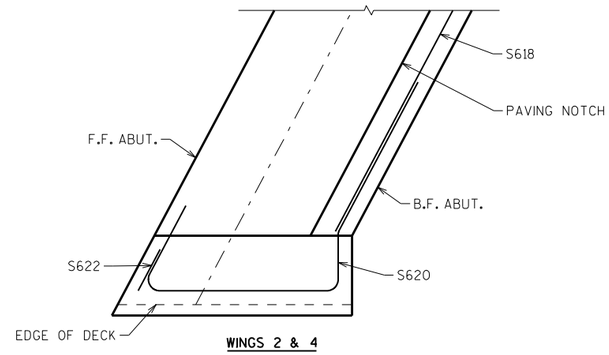
1021-03-74



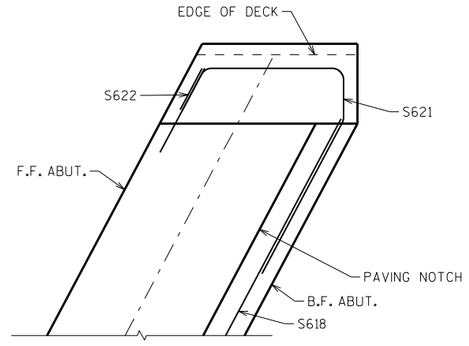
CROSS SECTION THRU ABUTMENT DIAPHRAGM BTWN. EXTERIOR GIRDERS



CROSS SECTION THRU PIER DIAPHRAGM



WINGS 2 & 4



WINGS 1 & 3

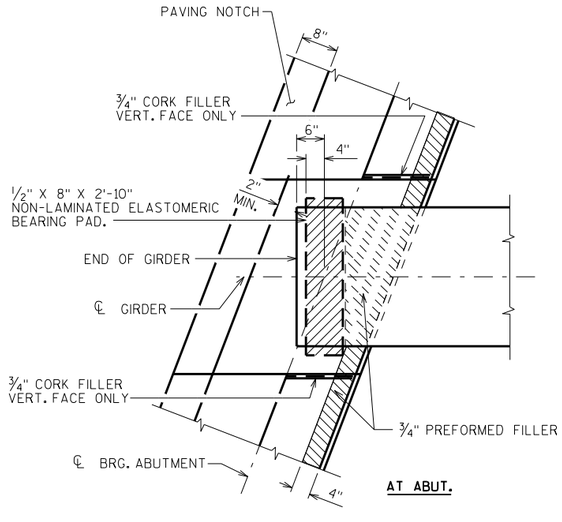
ABUTMENT DIAPHRAGM CORNER DETAILS

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

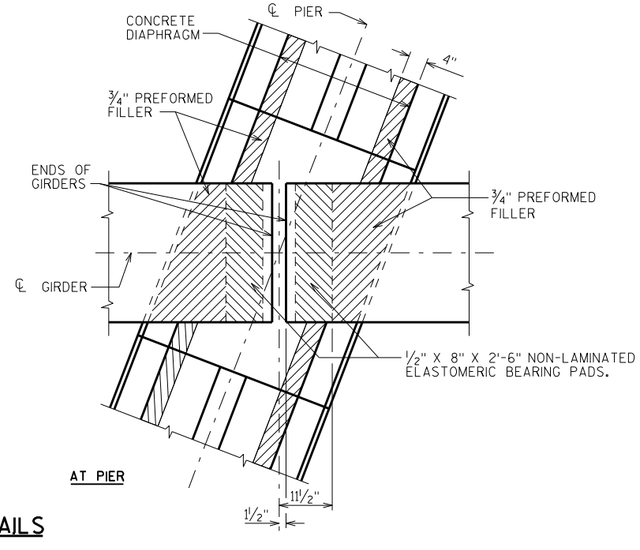
** BARS PLACED PARALLEL TO GIRDERS SPACING PERPENDICULAR TO ℄ GIRDERS

◪ DIMENSION IS TAKEN PARALLEL TO ℄ OF GIRDER

☆ RUBBERIZED MEMBRANE WATERPROOFING IF CONST. JOINT IS USED. COST INCLUDED WITH "CONCRETE MASONRY BRIDGES."

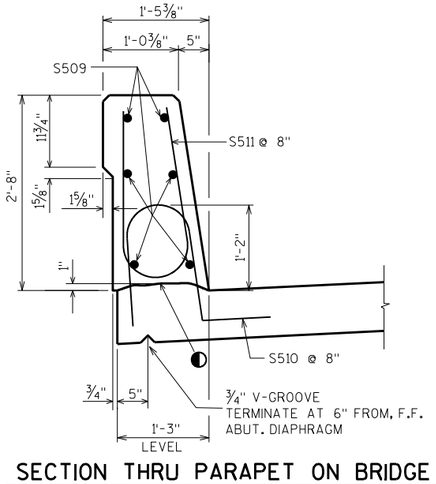


AT ABUT.



AT PIER

BEARING PAD DETAILS



SECTION THRU PARAPET ON BRIDGE

◐ CONST. JOINT - STRIKE OFF AS SHOWN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM | PLANS CK'D.

SUPERSTRUCTURE DETAILS 1

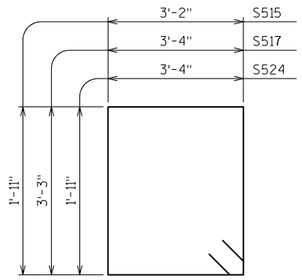
SHEET 14

SCALE = 1.3

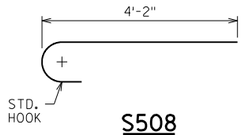
8

8

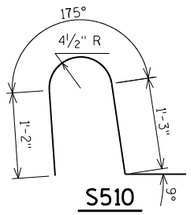
STATE PROJECT NUMBER
1021-03-74



S515, S517, S524



S508



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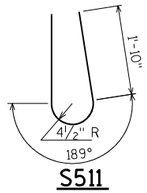
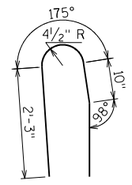
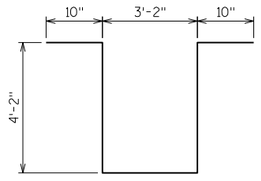


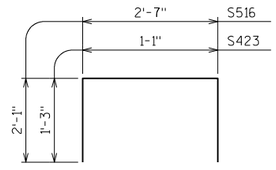
S511



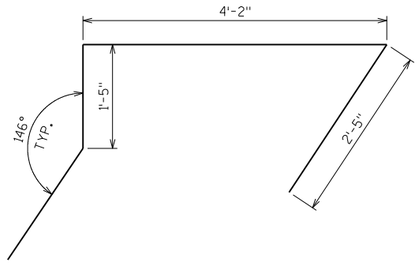
S512



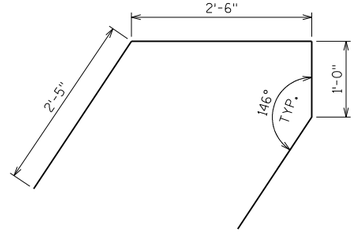
S514



S516, S423



S620



S621

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S901	X	97	59'-0"			DECK-LONGIT.-CONTINUITY-OVER PIER
S402	X	96	41'-4"			DECK-LONGIT.-TOP-SPAN 1
S403	X	144	32'-5"			DECK-LONGIT.-BOT.-SPAN 2
S404	X	343	34'-5"			DECK-LONGIT.-BOT.
S405	X	769	36'-2"			DECK-TRANSVERSE-TOP & BOT.
S406	X	84	17'-10"		⚠	DECK-TRANSVERSE-TOP
S407	X	82	17'-9"		⚠	DECK-TRANSVERSE-BOT.
S508	X	818	4'-9"	X		DECK-TRANSVERSE-OVERHANG
S509	X	48	59'-5"			PARAPET-HORIZ.
S510	X	688	4'-5"	X		DECK & PARAPET-VERT.
S511	X	696	5'-0"	X		PARAPET-VERT.
S512	X	8	5'-10"	X		DECK & PARAPET-VERT. AT PAVING NOTCH
S413	X	50	3'-5"			PIER DIAPHRAGM-HORIZ.
S514	X	25	12'-8"	X		PIER DIAPHRAGM-VERT.-BTWN. GIRDERS
S515	X	10	10'-10"	X		PIER DIAPHRAGM-VERT.- UNDER FLANGES
S516	X	68	6'-6"	X		ABUT. DIAPHRAGM & DECK-VERT.
S517	X	68	13'-10"	X		ABUT. DIAPHRAGM-VERT.-BTWN. GIRDERS
S618	X	12	43'-5"			ABUT. DIAPH. HORIZ.-B.F. ABUT
S619	X	70	3'-5"			ABUT. DIAPH. HORIZ.-F.F. ABUT. BTWN GIRDERS
S620	X	6	9'-6"	X		ABUT. DIAPH. HORIZ.-ENDS-WINGS 1 & 3
S621	X	6	7'-4"	X		ABUT. DIAPH. HORIZ.-ENDS-WINGS 2 & 4
S622	X	4	1'-0"			ABUT. DIAPH. HORIZ.-ENDS-BOT.
S423	X	40	3'-5"	X		ABUT. DIAPH. VERT.-BTWN. BEAM SEATS
S524	X	24	11'-2"	X		ABUT. DIAPH. VERT.-UNDER FLANGES
S425	X	20	2'-11"			ABUT. DIAPH. HORIZ.-BTWN. BEAM SEATS
S426	X	8	3'-8"			ABUT. DIAPH. VERT.-ENDS
S527	X	24	6'-0"			ABUT. DIAPH. HORIZ.-THRU GIRDER WEBS

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
S406	2 SERIES OF 42	1'-1" TO 34'-8"
S407	2 SERIES OF 41	1'-4" TO 34'-3"

BUNDLE AND TAG EACH SERIES SEPARATELY.

TOP OF DECK ELEVATIONS

	℄ BRG. S ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	℄ BRG. PIER 1	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	℄ BRG. N ABUT.
L EOD	919.53	919.84	920.14	920.43	920.70	920.96	921.21	921.45	921.67	921.88	922.08	922.27	922.44	922.60	922.75	922.89	923.01	923.12	923.22	923.30	923.37
GIRDER 1	919.53	919.84	920.14	920.43	920.71	920.97	921.22	921.46	921.68	921.89	922.09	922.28	922.46	922.62	922.77	922.90	923.03	923.14	923.24	923.32	923.40
GIRDER 2	919.54	919.85	920.16	920.45	920.73	921.00	921.26	921.50	921.73	921.94	922.15	922.34	922.52	922.69	922.84	922.98	923.11	923.22	923.33	923.42	923.50
GIRDER 3	919.54	919.86	920.18	920.47	920.76	921.03	921.29	921.54	921.77	921.99	922.20	922.40	922.58	922.75	922.91	923.06	923.19	923.31	923.42	923.51	923.59
GIRDER 4	919.42	919.75	920.06	920.37	920.66	920.93	921.20	921.45	921.69	921.91	922.13	922.33	922.52	922.69	922.85	923.00	923.14	923.27	923.38	923.48	923.57
GIRDER 5	919.17	919.51	919.83	920.13	920.43	920.71	920.98	921.23	921.48	921.71	921.93	922.13	922.32	922.50	922.67	922.83	922.97	923.10	923.21	923.32	923.41
GIRDER 6	918.93	919.26	919.59	919.90	920.20	920.48	920.76	921.02	921.26	921.50	921.72	921.93	922.13	922.31	922.49	922.65	922.79	922.93	923.05	923.16	923.25
R EOD	918.87	919.21	919.53	919.85	920.15	920.43	920.71	920.97	921.22	921.45	921.68	921.89	922.09	922.27	922.45	922.61	922.75	922.89	923.01	923.12	923.22

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM | PLANS CK'D.

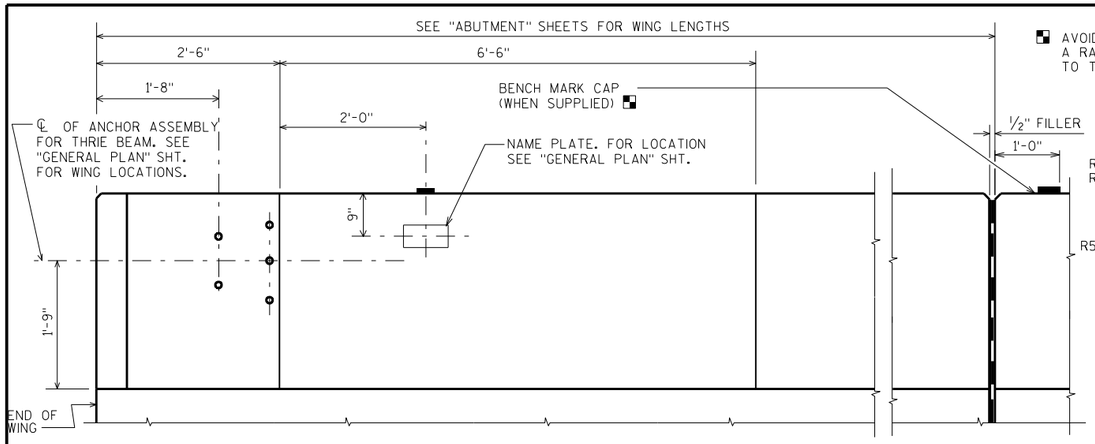
SUPERSTRUCTURE DETAILS 2

SHEET 15

SCALE = 1.00

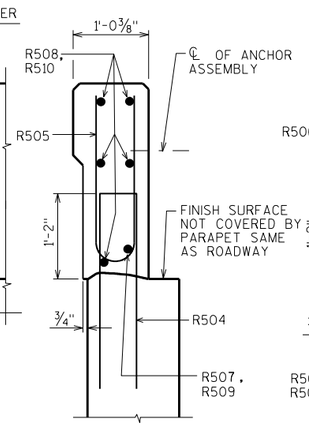
STATE PROJECT NUMBER

1021-03-74

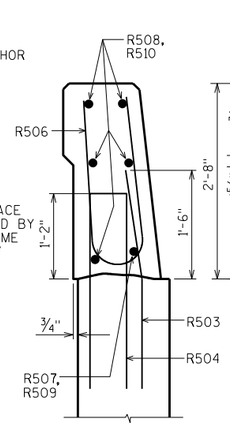


AVOID PLACING A BENCH MARK CAP BELOW A RAIL OR FENCE SYSTEM THAT IS ATTACHED TO THE TOP OF THE PARAPET.

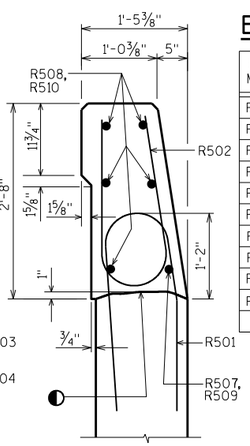
INSIDE ELEVATION



SECTION A



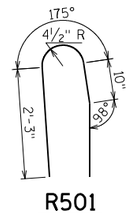
SECTION B



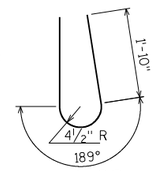
SECTION C

BILL OF BARS

BAR MARK	COAT	S ABUT.	N ABUT.	LENGTH	BENT	BAR SERIES	LOCATION
R501	X	28	28	5'-10"	X		PARAPET VERT.
R502	X	28	28	5'-0"	X		PARAPET VERT.
R503	X	24	24	3'-0"	X		PARAPET VERT.
R504	X	34	34	5'-7"	X		PARAPET VERT.
R505	X	22	22	4'-9"	X		PARAPET VERT.
R506	X	12	12	4'-10"	X		PARAPET VERT.
R507	X	1	1	15'-6"	X		PARAPET HORIZ.-WING 2 & 4
R508	X	5	5	15'-6"			PARAPET HORIZ.-WING 2 & 4
R509	X	1	1	19'-6"	X		PARAPET HORIZ.-WING 1& 3
R510	X	5	5	19'-6"			PARAPET HORIZ.-WING 1& 3



R501



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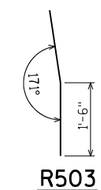

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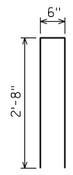

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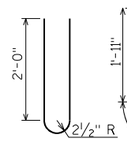
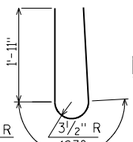
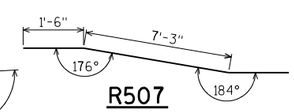


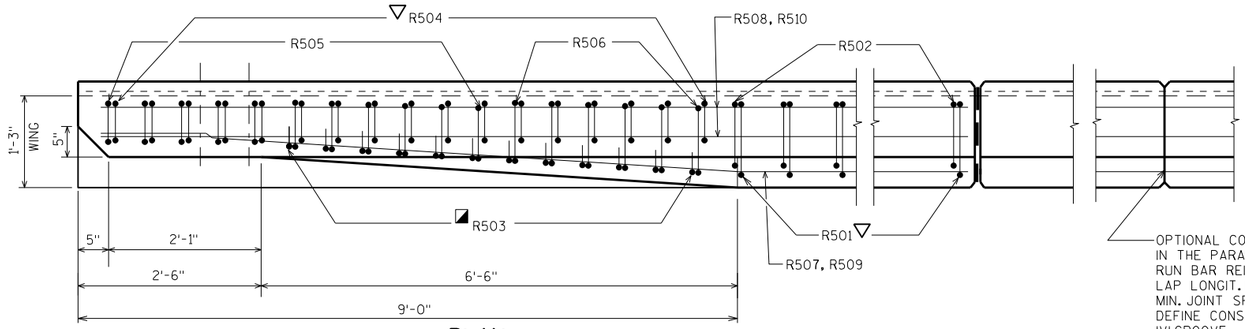
R505



R506

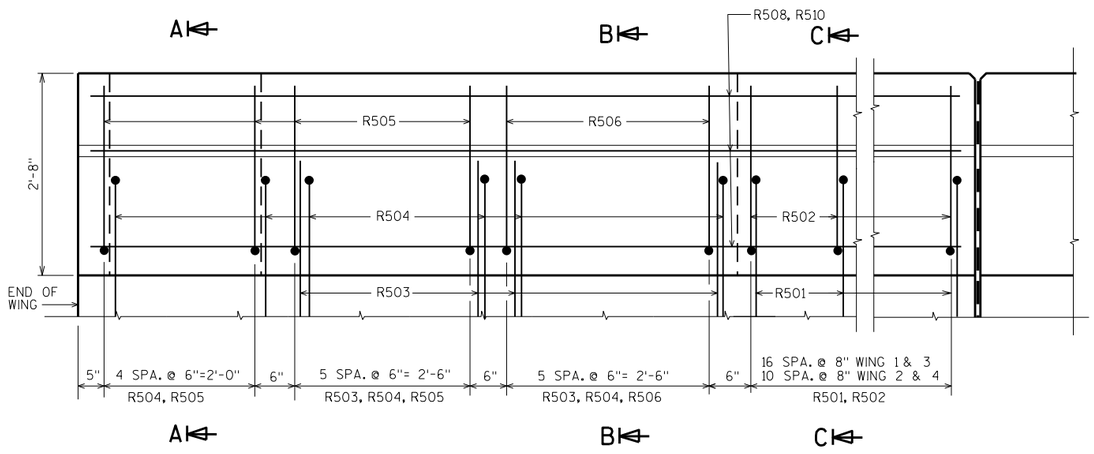


R507
R509

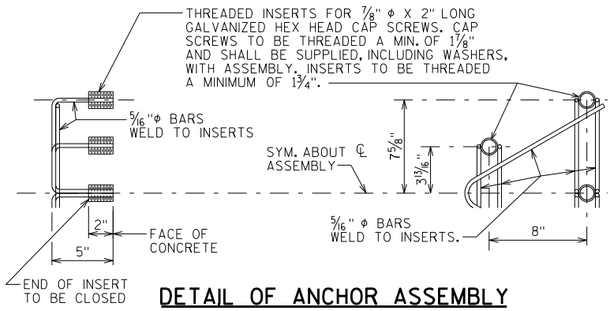


PLAN

OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A ¾" - 'V' GROOVE.



OUTSIDE ELEVATION



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

◪ R503 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R501 AND R504 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM | PLANS CK'D.

SINGLE SLOPE PARAPET 32SS

SHEET 16

SCALE = 1.00

8

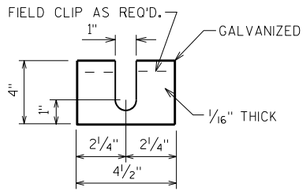
8

STATE PROJECT NUMBER

1021-03-74

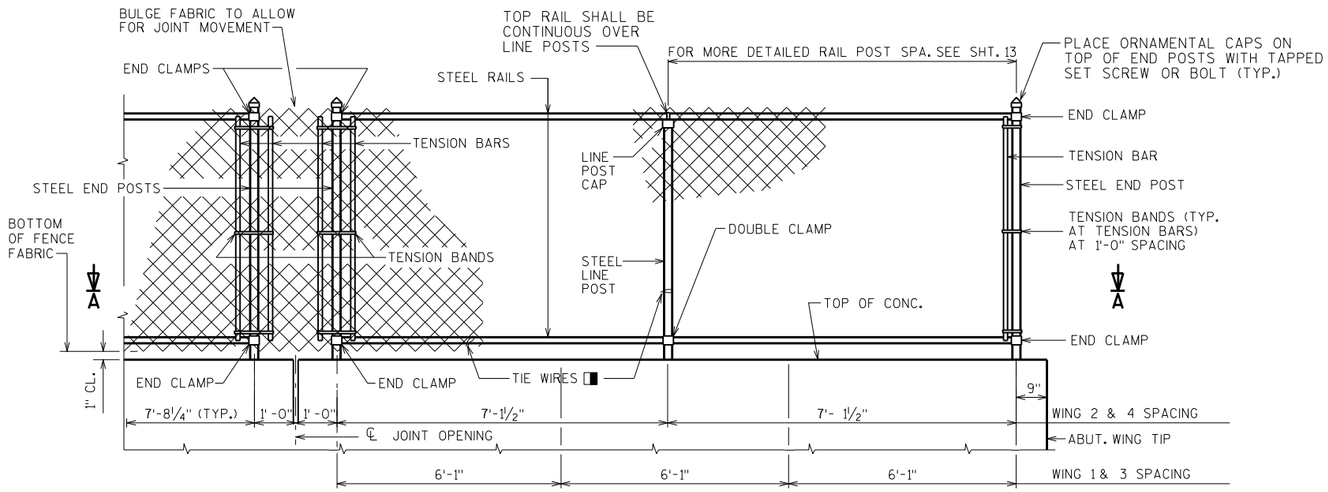
FENCE MEMBER SIZE & WEIGHT

STEEL FENCE MEMBER	OUTSIDE DIAMETER (INCHES)	WEIGHT (LB/FT)
RAILS	1.660	2.27
END POST	2.875	5.80
OVERHANG POST	2.875	5.80
LINE POST	2.375	3.65
POST SLEEVE	4.000	9.12



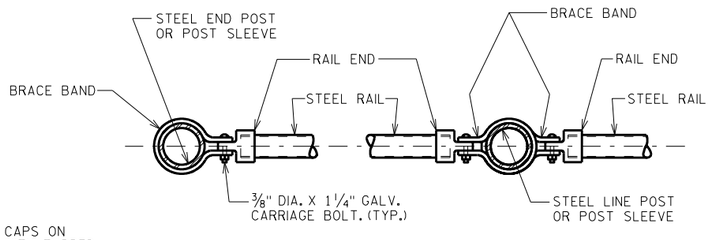
POST SHIM DETAILS

SHIMS REQUIRED ONLY WHEN END POSTS AND LINE POSTS ARE WELDED TO BASE PLATES. PROVIDE 4 SHIMS PER POST. USE WHERE REQUIRED FOR ALIGNMENT.

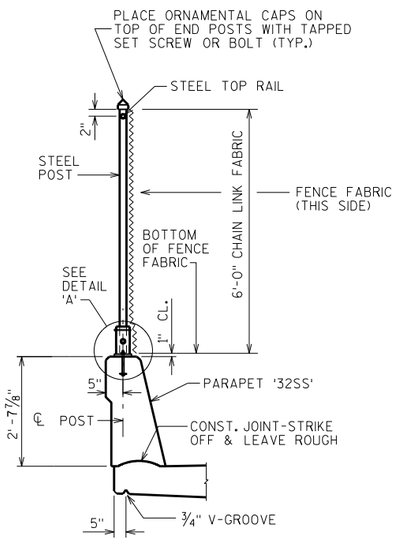


FENCE PART ELEVATION

VIEWING FABRIC SIDE



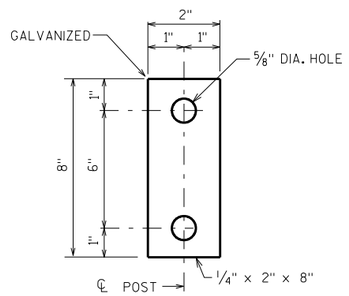
END CLAMP ✳ DOUBLE CLAMP



SECTION THRU FENCE

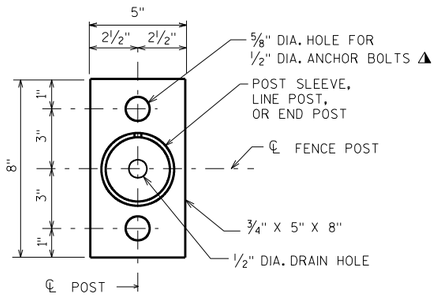
SECTION A-A

NOTE: PLACE ALL BOLT HEADS ON SIDE OF FENCE ADJACENT TO PEDESTRIANS

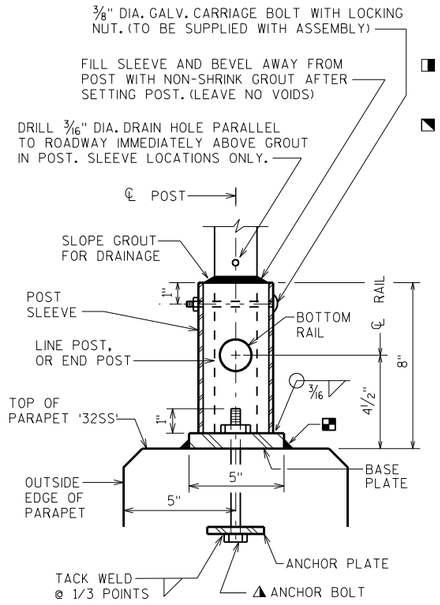


ANCHOR PLATE

☆NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.



BASE PLATE



DETAIL 'A'

UNIT SHALL BE GALVANIZED AFTER FABRICATION

NOTE: IN LIEU OF USING THE POST SLEEVE, THE FENCE POST MAY BE WELDED TO THE BASE PLATE.

NOTES

POSTS ARE TO BE SET VERTICAL.

ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL WITH A COLORED POLYMER-COATING ON THE OUTSIDE.

FABRIC SHALL CONFORM TO ASTM F668, CLASS 2B. STEEL RAILS, POSTS AND POST SLEEVES SHALL CONFORM TO ASTM F1083, STANDARD WEIGHT PIPE (SCHEDULE 40). FITTINGS SHALL CONFORM TO ASTM F626. SEE THE "BRIDGE SPECIAL PROVISIONS" FOR ADDITIONAL DETAILS.

THE COLOR OF POLYMER-COATING FOR THIS STRUCTURE SHALL BE BLACK IN ACCORDANCE WITH ASTM F934.

THE BID ITEM SHALL BE "FENCE CHAIN LINK POLYMER-COATED 6- FT. B-18-210", LF.

COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE GALVANIZING.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

BASE PLATES, ANCHOR PLATES AND SHIMS SHALL BE ASTM A709, GRADE 36.

ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG THE C/L OF THE POST.

▀ CAULK AROUND PERIMETER OF BASE PLATE AND FILL PORTION OF SLOTTED HOLE AROUND ANCHOR BOLT IN SHIM WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

✳ ALTERNATE TO DOUBLE CLAMP: USE LINE RAIL CLAMP (BOULEVARD) OR 180° BRACE BAND, WHICH MAY BE USED WHEN THE POSTS ARE EITHER BOLTED TO THE POST SLEEVES OR DIRECTLY WELDED TO THE BASE PLATE.

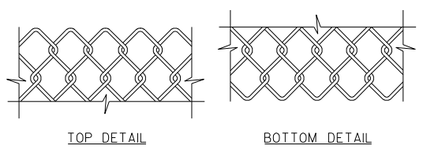
◭ 1/2" DIA. X 6 7/8" LONG GALVANIZED HEX BOLT WITH NUT & WASHER. ☆

☆ ALTERNATIVE ANCHORAGE: CONCRETE ADHESIVE ANCHORS 1/2-INCH. EMBED 7" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTION 502.2.12 OF THE STANDARD SPECIFICATIONS.

◨ ATTACH FABRIC TO RAILS, AND TO POSTS WITHOUT TENSION BANDS, WITH TIE WIRES (ROUND, 9-GAGE) SPACED AT 1'-0".

◹ BOLT RAIL TO RAIL END TO SECURE OVERHANG SECTION. ALTERNATE IS TO WELD RAIL DIRECTLY TO END POST.

MINIMUM LENGTH OF TOP RAIL BETWEEN SPLICES SHALL BE 20'-0". LOCATE SPLICES NEAR 1/4 POINT OF POST SPACING.



TOP DETAIL BOTTOM DETAIL

FENCE FABRIC

FENCE FABRIC WOVEN OF 9-GAGE WIRE IN 2" DIAMOND PATTERN MESH WITH BOTH THE TOP AND BOTTOM SELVAGES KNUCKLED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM | PLANS CK'D.

FENCING DETAILS

SHEET 17

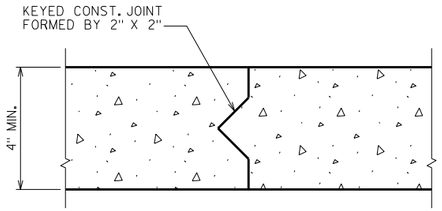
8

8

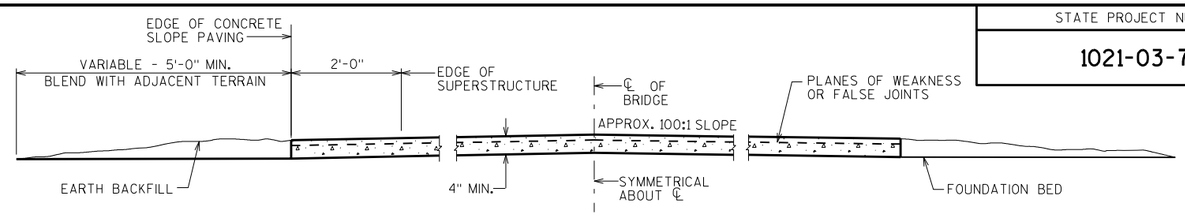
SCALE = 5.33

STATE PROJECT NUMBER

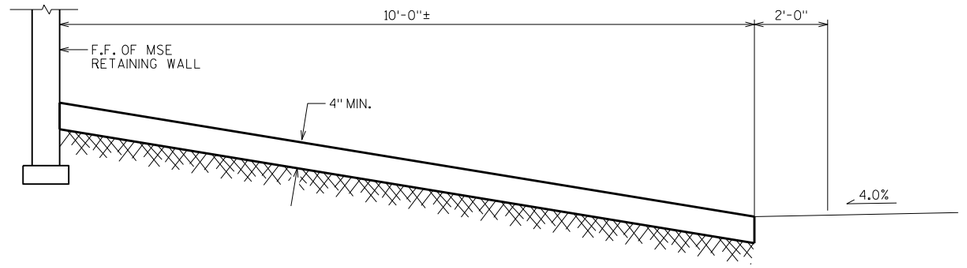
1021-03-74



CONSTRUCTION JOINT

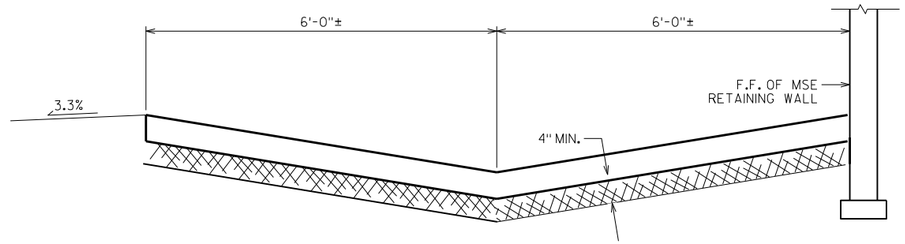


SECTION A-A



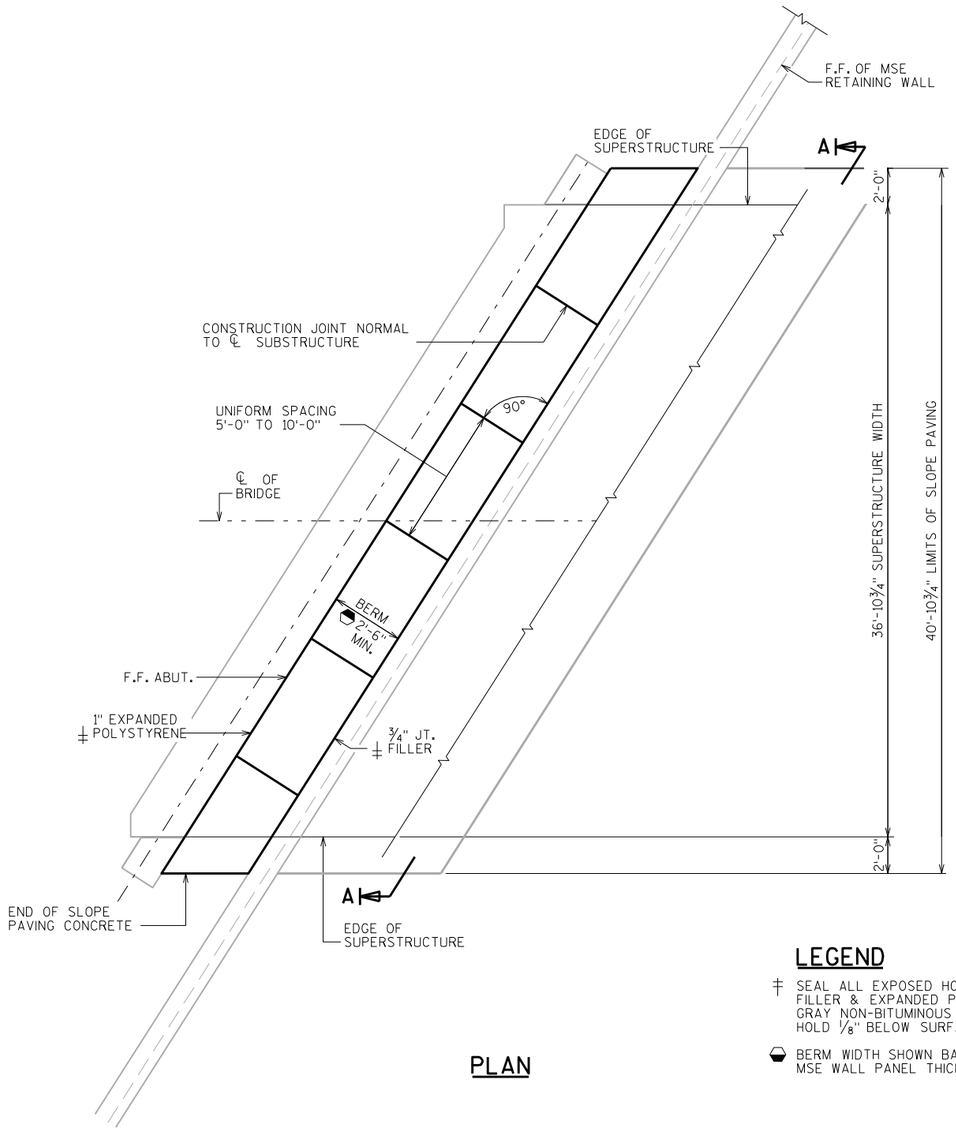
SOUTH CROSS SECTION SLOPE PAVING

(NORMAL TO MSE RETAINING WALL)

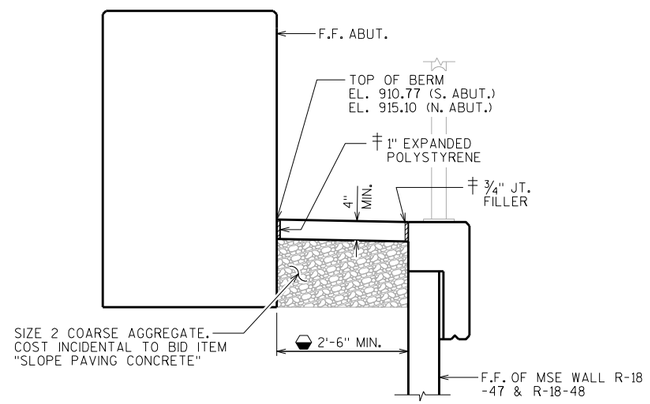


NORTH CROSS SECTION SLOPE PAVING

(NORMAL TO MSE RETAINING WALL)



PLAN



TYPICAL SECTION SLOPE PAVING CONCRETE

LEGEND

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER & EXPANDED POLYSTYRENE WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONC.)

BERM WIDTH SHOWN BASED ON ASSUMED MSE WALL PANEL THICKNESS OF 9".

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-210

DRAWN BY JDM | PLANS CK'D.

SLOPE PAVING

SHEET 18

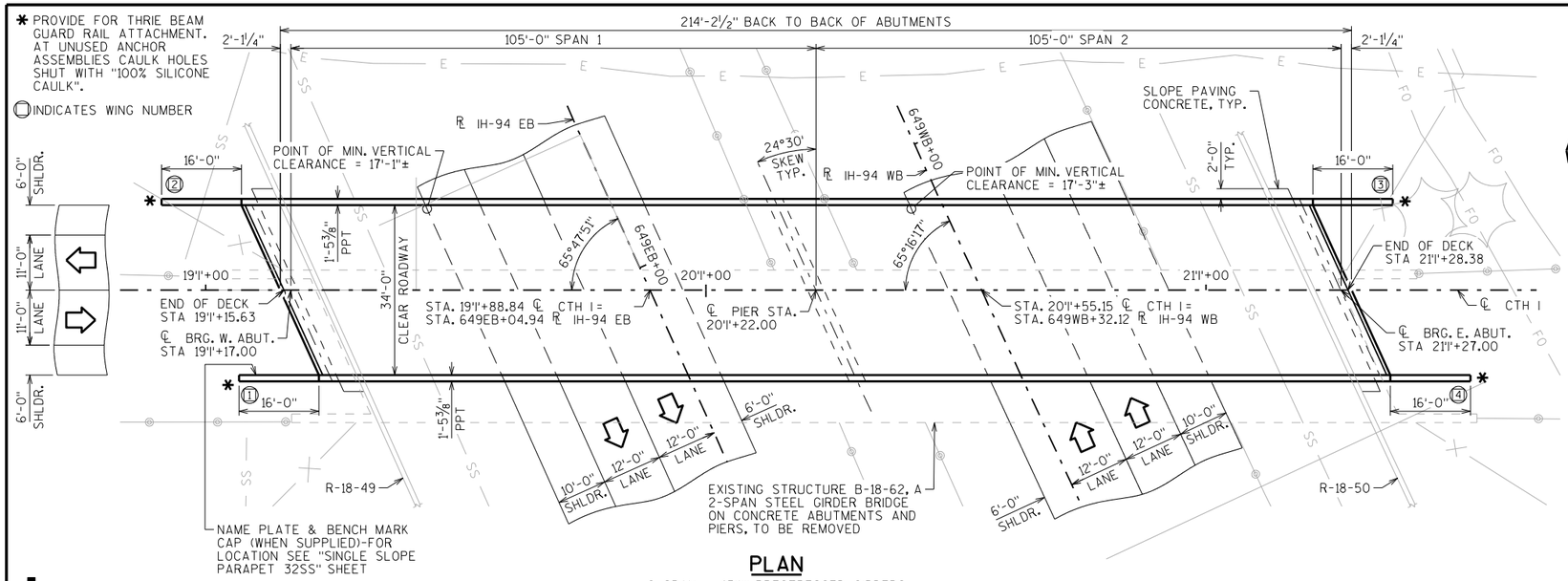
8

8

SCALE = 4.00

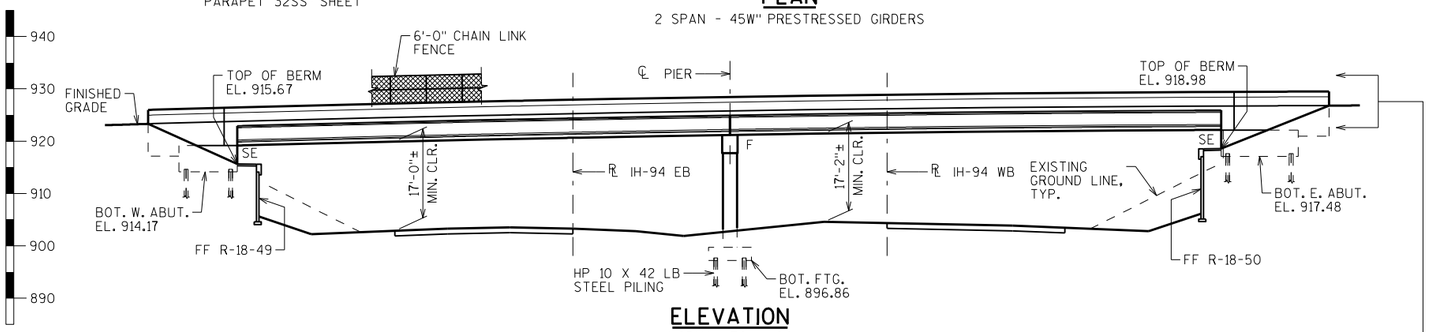
STATE PROJECT NUMBER

1021-03-74



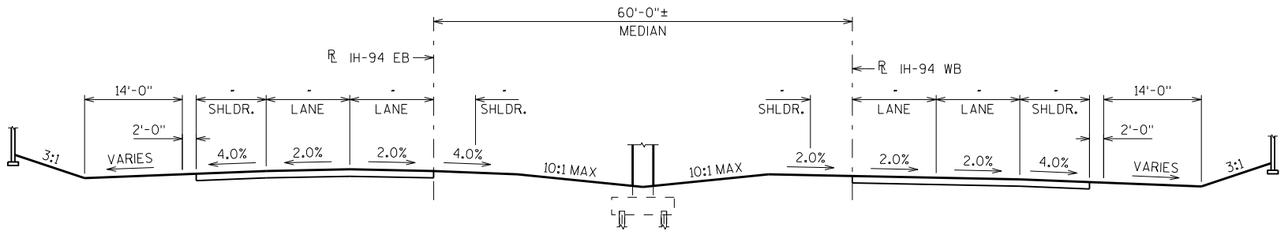
PLAN

2 SPAN - 45W" PRESTRESSED GIRDERS



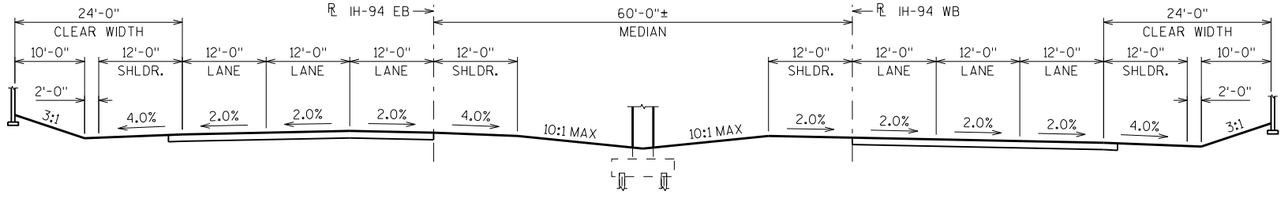
ELEVATION

NORMAL TO IH-94



TYP. FINISHED SECTION THRU IH-94

(LOOKING NORTH)



TYP. FUTURE SECTION THRU IH-94

(LOOKING NORTH)

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.06
OPERATING RATING FACTOR: RF = 1.38
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250(KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
DECK, DIAPHRAGMS AND PARAPETS — f'c = 4,000 P.S.I.
ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 — fy = 60,000 P.S.I.

45W" PRESTRESSED GIRDERS:
CONCRETE MASONRY — f'c = 8000 P.S.I.
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 10 X 42 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 135'LONG ON W. ABUTMENT AND 130'ON E. ABUTMENT.

PIER TO BE SUPPORTED ON HP 10 X 42 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 100' LONG.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

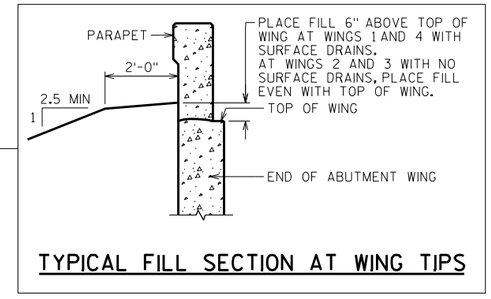
TRAFFIC VOLUME

CTH I
ADT = 450 (2038)
R.D.S. = 45 M.P.H.

IH-94
ADT = 35,300 (2042)
R.D.S. = 70 M.P.H.

CURVE DATA

IH-94 WB
P.I. = 653WB+95.69
△ = 5°41'00"
D = 0°30'00"
T = 568.80'
L = 1136.67'
R = 11459.19'
S.E. = 2.00%
P.C. = 648WB+26.89
P.T. = 659WB+63.56



TYPICAL FILL SECTION AT WING TIPS

STRUCTURE DESIGN CONTACTS:

LAURA SHADEWALD (608) 267-9592
DANIELLE DE TENNIS (608) 266-8689

LIST OF DRAWINGS

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ DATE _____
CHIEF STRUCTURES DESIGN ENGINEER

STRUCTURE B-18-232

CTH I OVER IH-94

COUNTY	TOWN/~~CITY/VILLAGE~~
EAU CLAIRE	WASHINGTON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
DFD	DLM	MJH	MWB

GENERAL PLAN

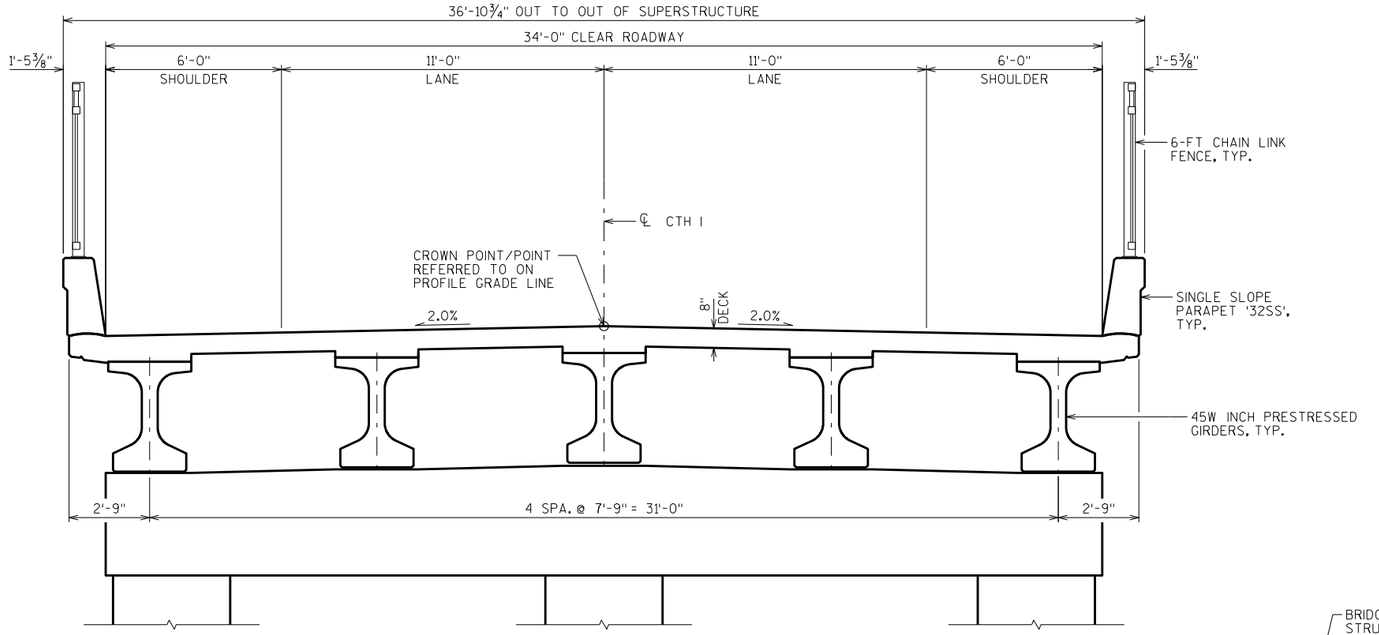
SHEET 1 OF 17

I.D. 1021-03-04B

DATE: MAY 2017

SCALE = 14.00

STATE PROJECT NUMBER
1021-03-74



CROSS SECTION THRU ROADWAY

LOOKING EAST

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAILS SHOWN IN THE PLANS

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON WINGS.

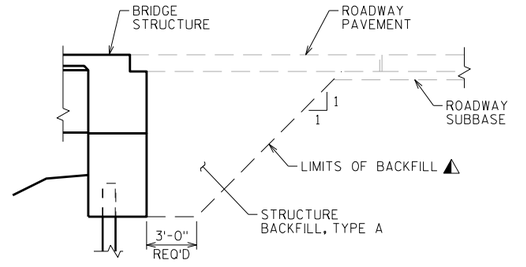
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 16 AND THE ABUTMENT DETAILS.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "45W PRESTRESSED GIRDER DETAILS 2" SHEET.

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

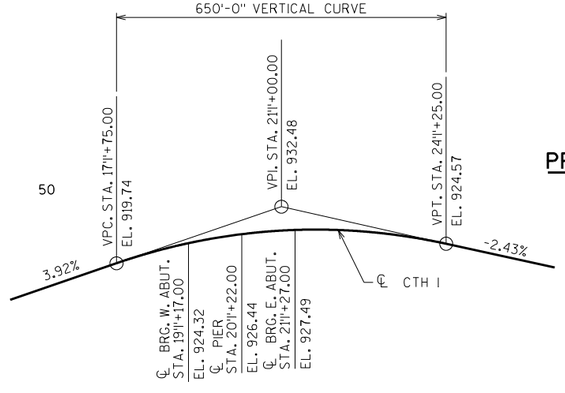
TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST ABUT.	PIER 1	EAST ABUT.	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 21'1'+24	LS	———	———	———	———	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-18-232	LS	———	———	———	———	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	———	196	———	189	385
502.0100	CONCRETE MASONRY BRIDGES	CY	317	50	70	50	487
502.3200	PROTECTIVE SURFACE TREATMENT	SY	810	———	———	———	810
502.3210	PIGMENTED SURFACE SEALER	SY	174	13	———	———	200
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	1054	———	———	———	1054
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	———	2343	1579	2343	6265
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	52,881	4148	11545	4148	72722
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	20	———	———	———	20
506.4000	STEEL DIAPHRAGMS B-18-232	EACH	16	———	———	———	16
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	———	10	———	10	20
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	———	1350	2700	1300	5350
604.0400	SLOPE PAVING CONCRETE	SY	———	11	———	11	22
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	———	72	———	72	144
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	———	2	———	2	4
SPV.0090	FENCE CHAIN LINK POLYMER-COATED 6-FT.	LF	432	31	———	31	493
	NON-BID ITEMS						
	FILLER	SIZE	———	———	———	———	½", ¾", 1½"

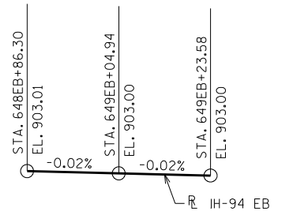


TYPICAL SECTION THRU ABUTMENT

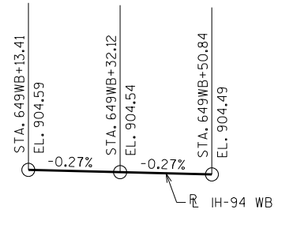
⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.



PROFILE GRADE LINE - CTH I



PROFILE GRADE LINE - IH-94 EB



PROFILE GRADE LINE - IH-94 WB

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-232

DRAWN BY MJH | PLANS CK'D. MWB

CROSS SECTION & QUANTITIES

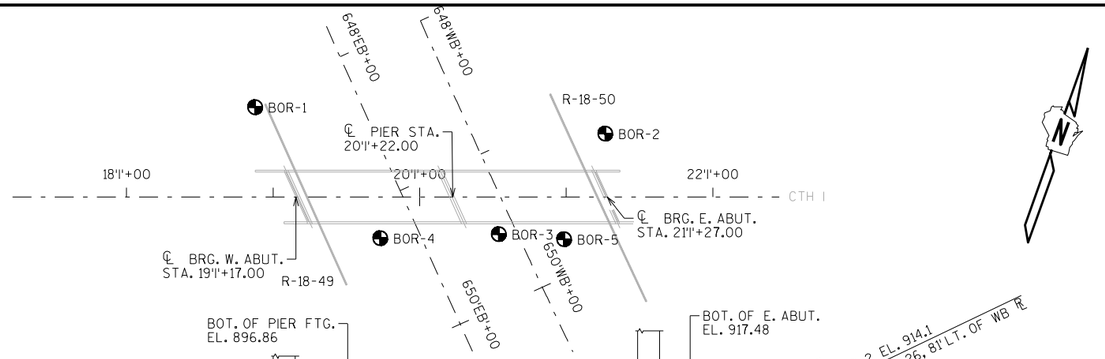
SHEET 2

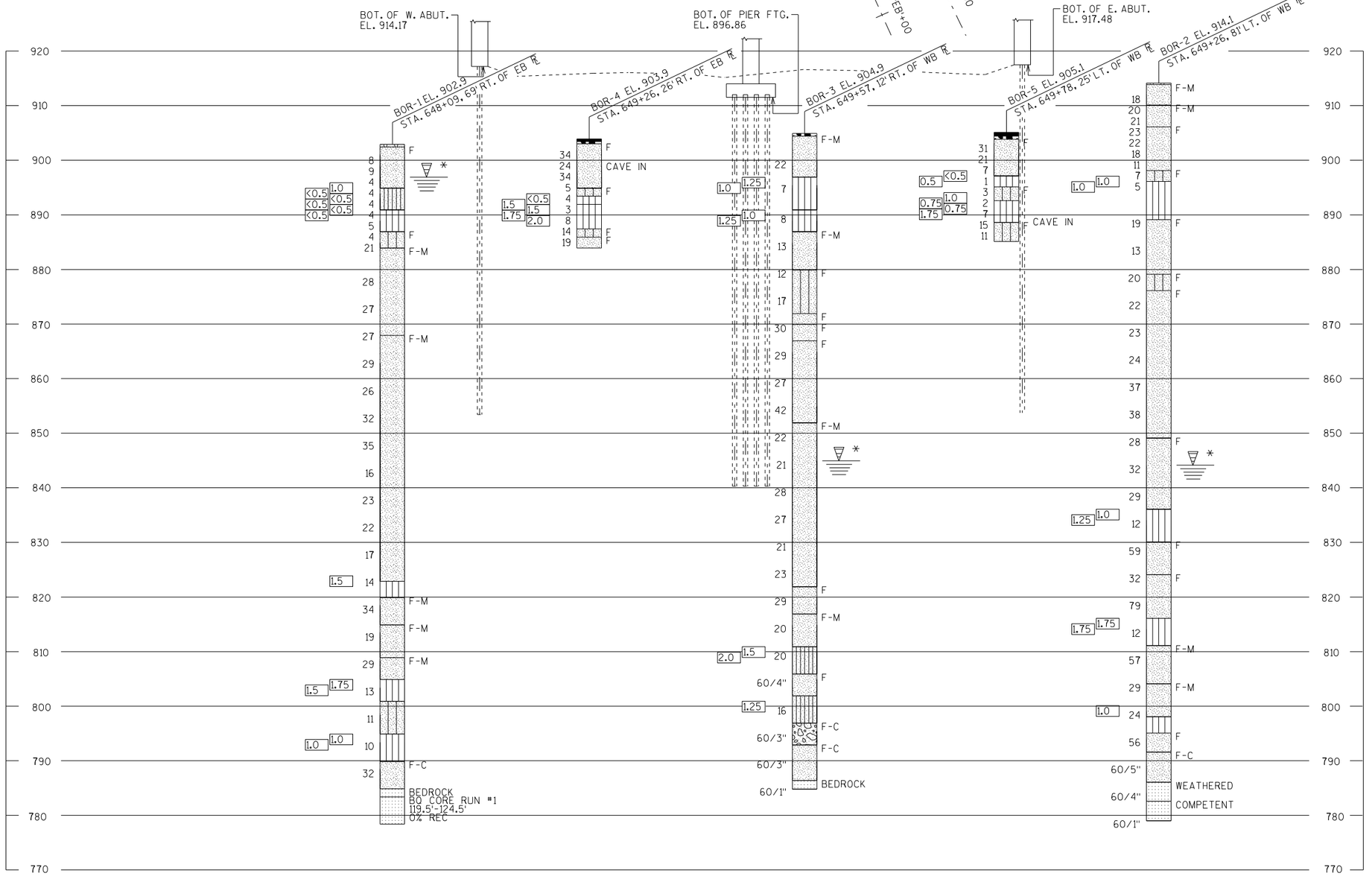
SCALE = 2.50

8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	11/02/2016	258681.464	366217.572
2	11/03/2016	258744.530	366448.731
3	11/08/2016	258655.547	366403.36
4	11/10/2016	258625.889	366327.961
5	11/10/2016	258667.256	366446.380
BORINGS COMPLETED BY: WISDOT			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) EAU CLAIRE COUNTY			
COORDINATES ARE COLLECTED USING NON-SURVEY GRADE EQUIPMENT.			





* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

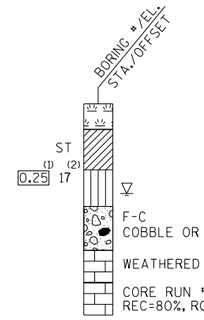
STATE PROJECT NUMBER

1021-03-74

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-232

DRAWN BY MJH | PLANS CK'D. MWB

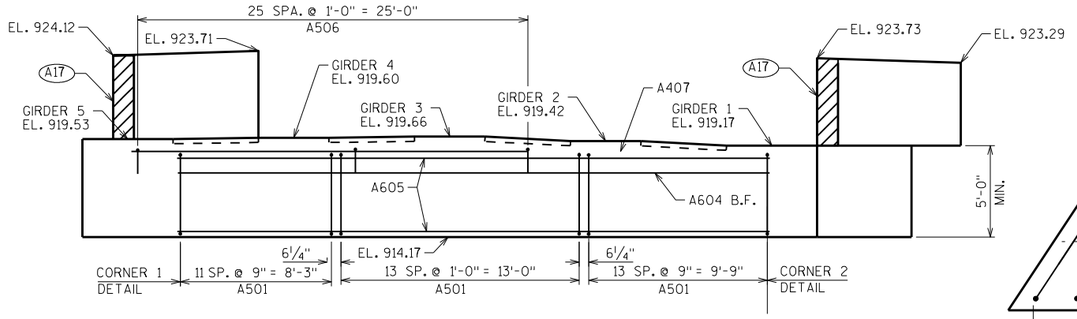
SUBSURFACE EXPLORATION

SHEET 3

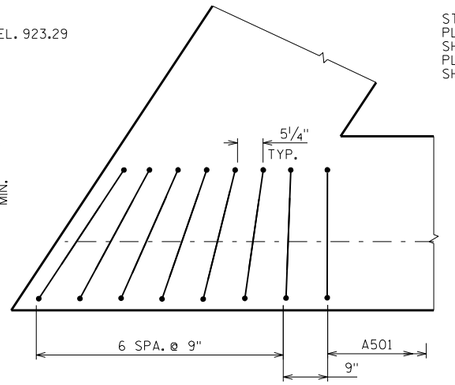
SCALE = 50.00

8

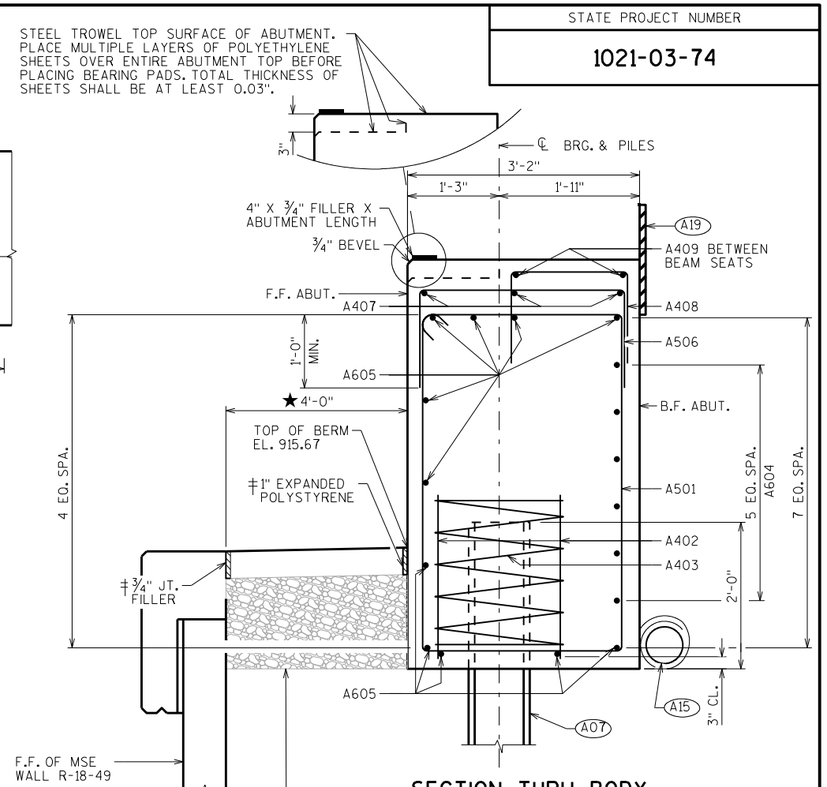
8



ELEVATION LOOKING WEST @ F.F. ABUT.



CORNER 1 DETAIL



SECTION THRU BODY

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

★ DIMENSION NOTED BASED ON ASSUMED MSE WALL PANEL THICKNESS OF 9".

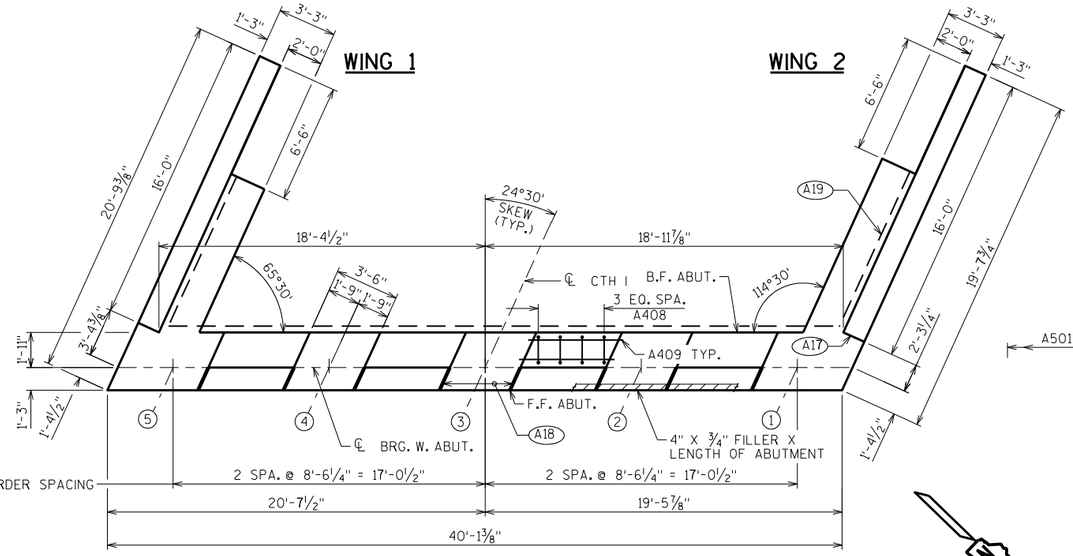
(A07) SUPPORT ABUTMENT ON HP 10 X 42 STEEL PILING, ESTIMATED 135' LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE. PILE POINTS REQUIRED.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

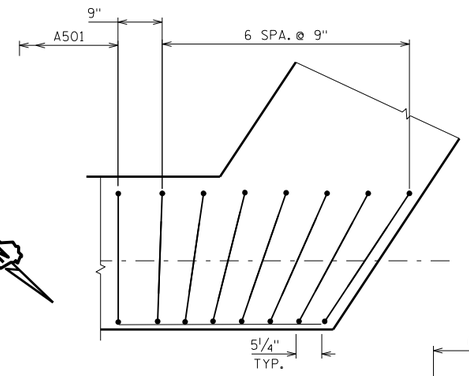
(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

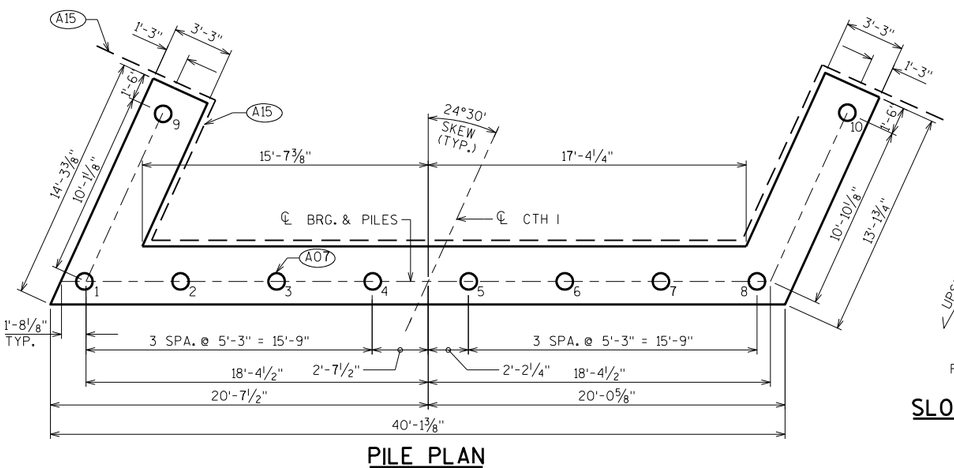


PLAN

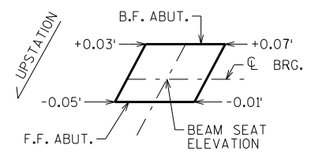
◯ INDICATES GIRDER NUMBER



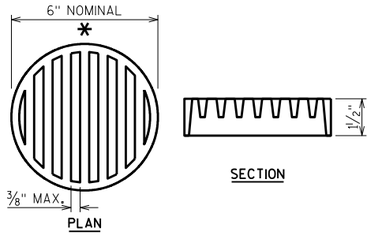
CORNER 2 DETAIL



PILE PLAN



SLOPED BEAM SEAT DETAIL



PLAN

SECTION

RODENT SHIELD DETAIL

★ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

STATE PROJECT NUMBER

1021-03-74

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-232

DRAWN BY MJH | PLANS CK'D. MWB

WEST ABUTMENT

SHEET 4

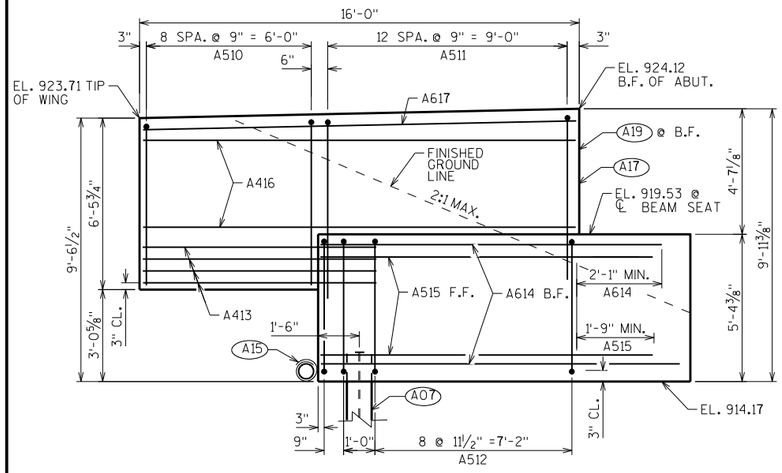
SCALE = 4.00

8

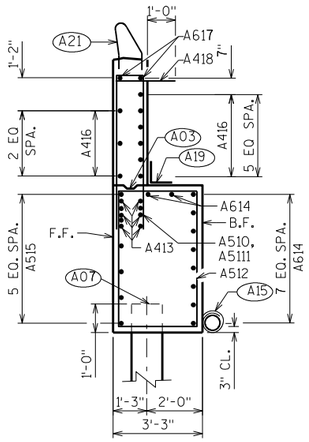
8

STATE PROJECT NUMBER

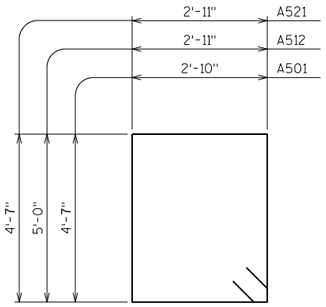
1021-03-74



WING 1 ELEVATION



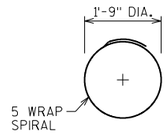
WING 1 SECTION



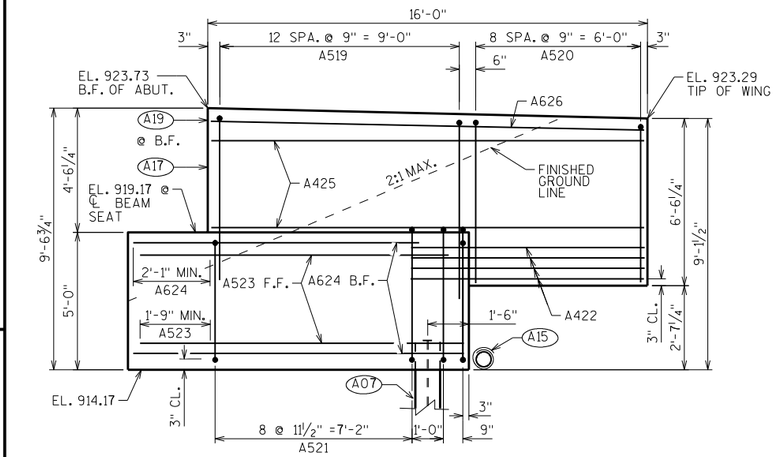
A501. A512, A521

BILL OF BARS

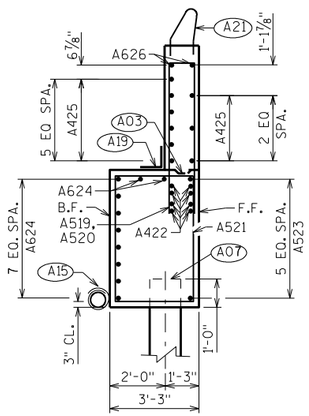
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		52	15'-6"	X		BODY-STIRRUPS
A402		20	2'-3"			BODY-2-PER-BODY-PILE-VERTICAL
A403		10	28'-0"			BODY-1-PER-BODY-PILE
A904		6	39'-9"			BODY-HORIZONTAL-B.F.
A605		11	39'-9"			BODY-HORIZONTAL
A506		26	5'-3"	X		BODY-VERTICAL.-TOP-UNDER GIR. 1-3
A407		3	25'-0"			BODY-HORIZONTAL-TOP-UNDER GIR. 1-3
A408		16	3'-11"	X		BODY-VERTICAL-TOP-BTWN. BEAM SEATS
A409		8	6'-8"			BODY-HORIZONTAL-TOP-BTWN. BEAM SEATS
A510	X	9	12'-8"	X		WING 1-VERTICAL-UPPER WING
A511	X	13	12'-10"	X		WING 1-VERTICAL-UPPER WING
A512	X	11	16'-6"	X		WING 1-STIRRUP-LOWER WING
A413	X	8	7'-9"			WING 1-HORIZONTAL-UPPER WING
A714	X	10	11'-7"			WING 1-HORIZONTAL-B.F.-LOWER WING
A515	X	6	11'-2"			WING 1-HORIZONTAL-F.F.- LOWER WING
A416	X	9	15'-7"			WING 1-HORIZONTAL-UPPER WING
A617	X	2	15'-7"			WING 1-HORIZONTAL-UPPER WING
A418	X	2	2'-0"			WING 1-HORIZONTAL-DEWELS-UPPER WING
A519	X	13	12'-6"	X		WING 2-VERTICAL-UPPER WING
A520	X	9	13'-0"	X		WING 2-VERTICAL--UPPER WING
A521	X	11	15'-8"	X		WING 2-STIRRUP-LOWER WING
A422	X	8	7'-9"			WING 2-HORIZONTAL-UPPER WING
A523	X	6	11'-2"			WING 2-HORIZONTAL-F.F.- OWER WING
A724	X	10	11'-7"			WING 2-HORIZONTAL-B.F.-LOWER WING
A425	X	9	15'-7"			WING 2-HORIZONTAL-UPPER WING
A626	X	2	15'-7"			WING 2-HORIZONTAL-UPPER WING



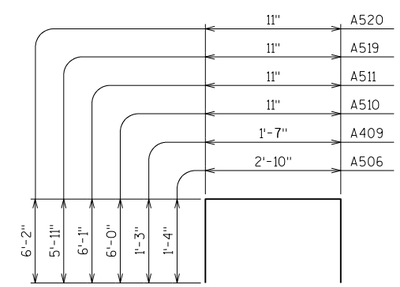
A405



WING 2 ELEVATION



WING 2 SECTION



A506, A408, A510, A511, A519, A520

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2X6. (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).

(A07) SUPPORTED ABUTMENT ON HP 10 X 42 STEEL PILING, ESTIMATED 135'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% , MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A21) FOR PPT. BARS. & DIMENSIONS SEE "SINGLE SLOPE PARAPET 32SS" SHEET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-232

DRAWN BY MJH | PLANS CK'D. MWB

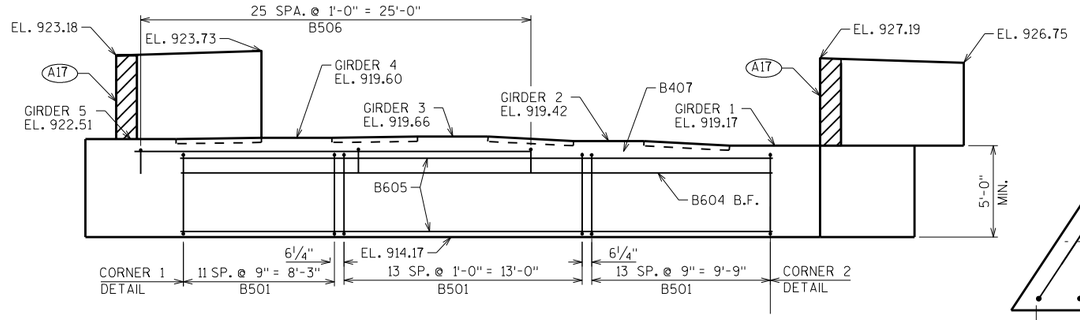
WEST ABUTMENT DETAILS

SHEET 5

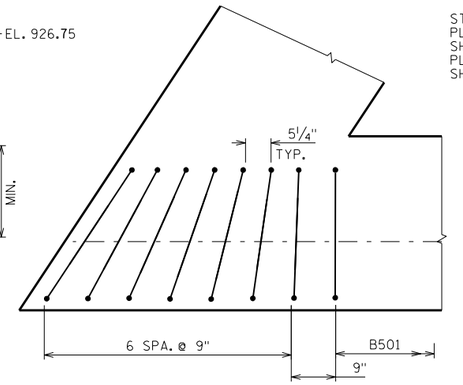
SCALE = 2.67

8

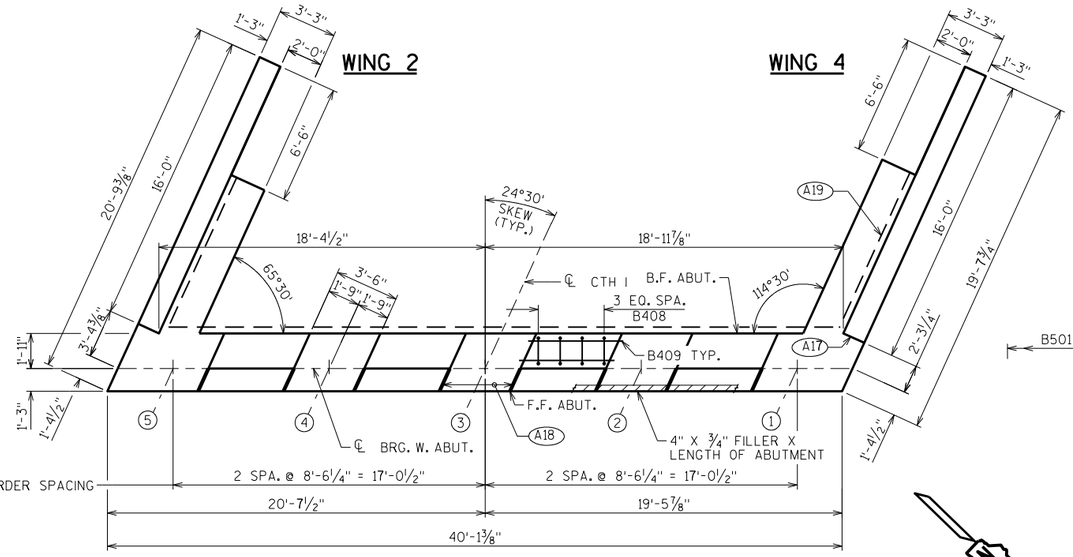
8



ELEVATION LOOKING WEST @ F.F. ABUT.

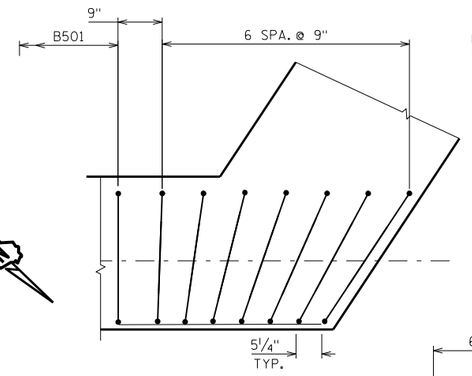


CORNER 1 DETAIL

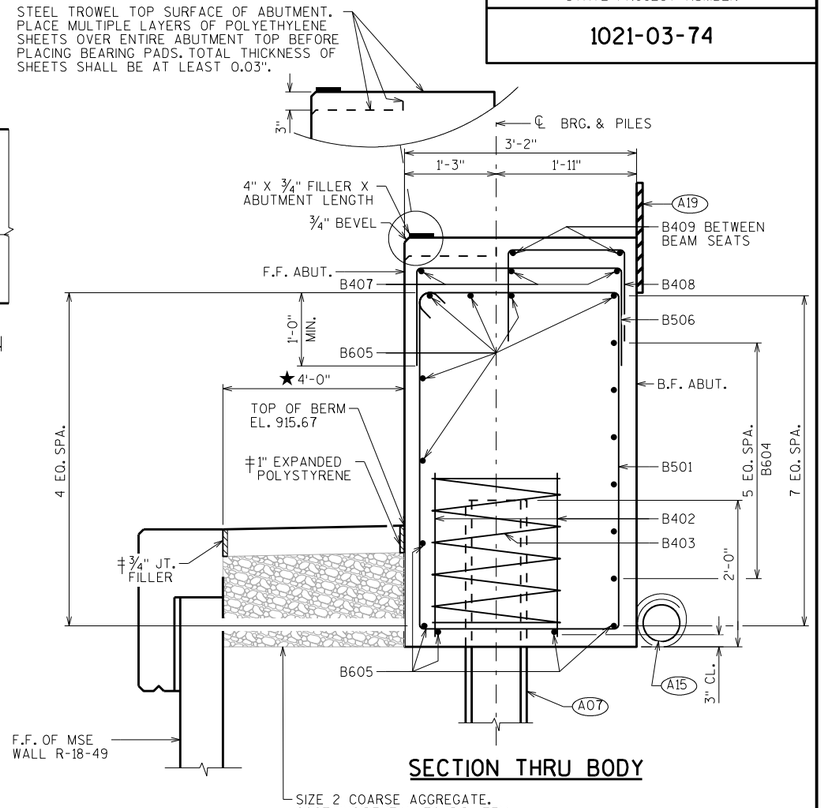


PLAN

◯ INDICATES GIRDER NUMBER



CORNER 2 DETAIL



SECTION THRU BODY

SIZE 2 COARSE AGGREGATE.
COST INCIDENTAL TO BID ITEM
"SLOPE PAVING CONCRETE"

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

★ DIMENSION NOTED BASED ON ASSUMED MSE WALL PANEL THICKNESS OF 9".

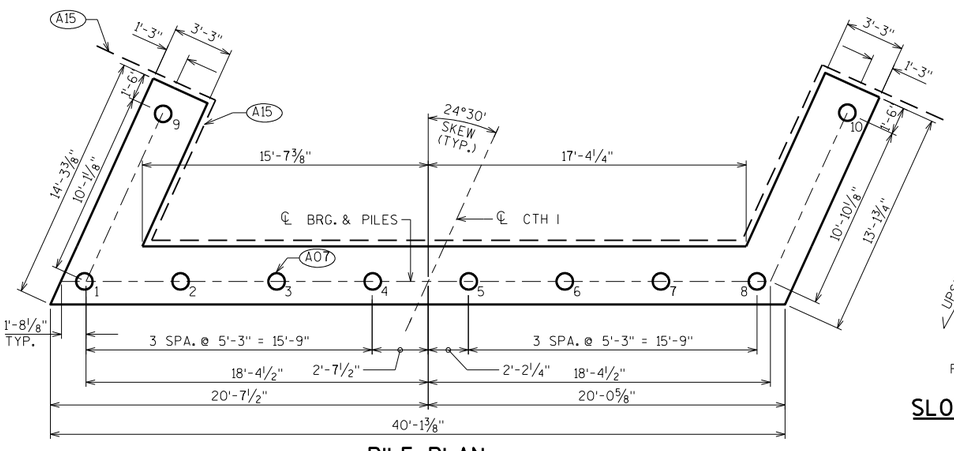
(A07) SUPPORT ABUTMENT ON HP 10 X 42 STEEL PILING, ESTIMATED 135' LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE. PILE POINTS REQUIRED.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

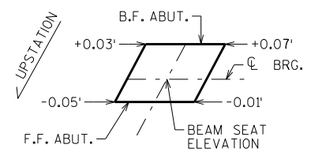
(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

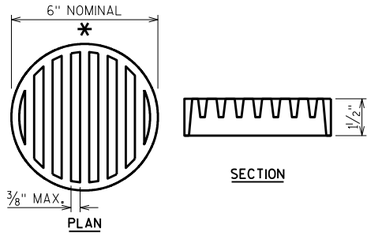
(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



PILE PLAN



SLOPED BEAM SEAT DETAIL



RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

STATE PROJECT NUMBER

1021-03-74

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-232

DRAWN BY MJH | PLANS CK'D. MWB

EAST ABUTMENT

SHEET 6

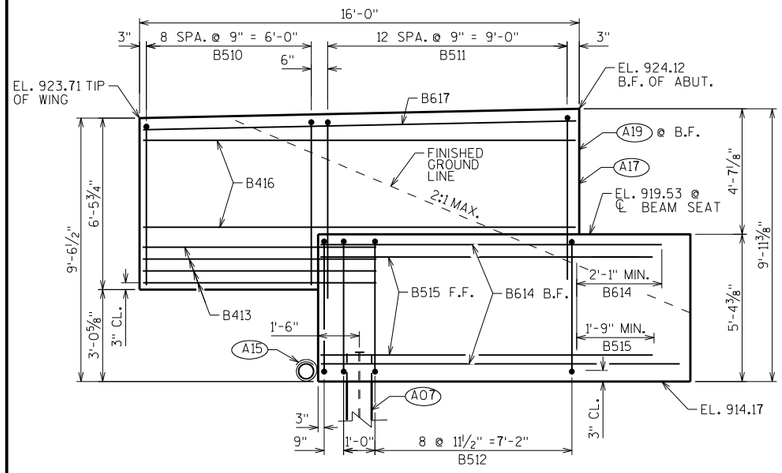
SCALE = 4.00

8

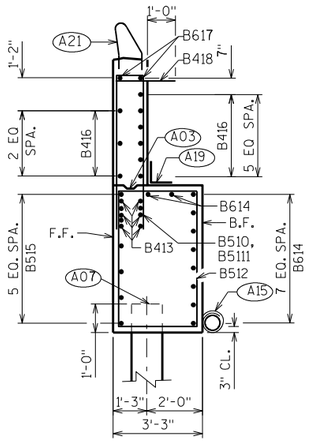
8

STATE PROJECT NUMBER

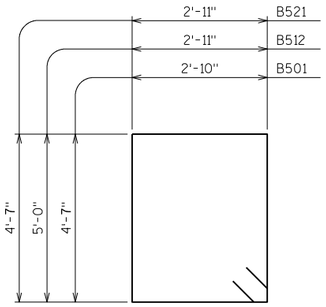
1021-03-74



WING 1 ELEVATION



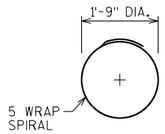
WING 1 SECTION



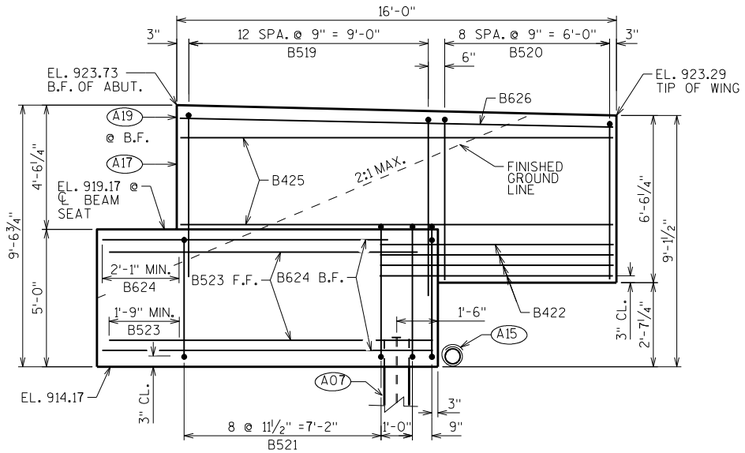
B501. B512, B521

BILL OF BARS

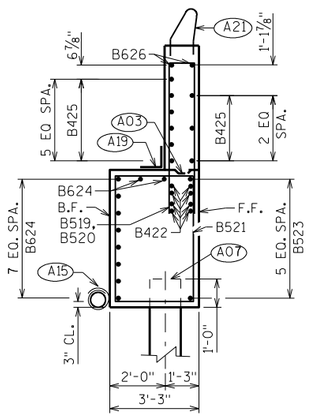
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		52	15'-6"	X		BODY-STIRRUPS
B402		20	2'-3"			BODY-2-PER-BODY-PILE-VERTICAL
B403		10	28'-0"			BODY-1-PER-BODY-PILE
B904		6	39'-9"			BODY-HORIZONTAL-B.F.
B605		11	39'-9"			BODY-HORIZONTAL
B506		26	5'-3"	X		BODY-VERTICAL.-TOP-UNDER GIR. 1-3
B407		3	25'-0"			BODY-HORIZONTAL-TOP-UNDER GIR. 1-3
B408		16	3'-11"	X		BODY-VERTICAL-TOP-BTWN. BEAM SEATS
B409		8	6'-8"			BODY-HORIZONTAL-TOP-BTWN. BEAM SEATS
B510	X	9	12'-8"	X		WING 1-VERTICAL-UPPER WING
B511	X	13	12'-10"	X		WING 1-VERTICAL-UPPER WING
B512	X	11	16'-6"	X		WING 1-STIRRUP-LOWER WING
B413	X	8	7'-9"			WING 1-HORIZONTAL-UPPER WING
B714	X	10	11'-7"			WING 1-HORIZONTAL-B.F.-LOWER WING
B515	X	6	11'-2"			WING 1-HORIZONTAL-F.F.- LOWER WING
B416	X	9	15'-7"			WING 1-HORIZONTAL-UPPER WING
B617	X	2	15'-7"			WING 1-HORIZONTAL-UPPER WING
B418	X	2	2'-0"			WING 1-HORIZONTAL-DEWELS-UPPER WING
B519	X	13	12'-6"	X		WING 2-VERTICAL-UPPER WING
B520	X	9	13'-0"	X		WING 2-VERTICAL--UPPER WING
B521	X	11	15'-8"	X		WING 2-STIRRUP-LOWER WING
B422	X	8	7'-9"			WING 2-HORIZONTAL-UPPER WING
B523	X	6	11'-2"			WING 2-HORIZONTAL-F.F.- OWER WING
B724	X	10	11'-7"			WING 2-HORIZONTAL-B.F.-LOWER WING
B425	X	9	15'-7"			WING 2-HORIZONTAL-UPPER WING
B626	X	2	15'-7"			WING 2-HORIZONTAL-UPPER WING



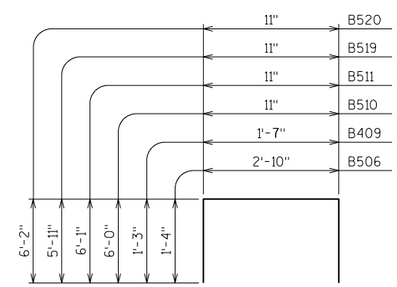
B405



WING 2 ELEVATION



WING 2 SECTION



B506, B408, B510, B511, B519, B520

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2X6. (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).

(A07) SUPPORTED ABUTMENT ON HP 10 X 42 STEEL PILING, ESTIMATED 135'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% , MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A21) FOR PPT. BARS. & DIMENSIONS SEE "SINGLE SLOPE PARAPET 32SS" SHEET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-232

DRAWN BY MJH | PLANS CK'D. MWB

EAST ABUTMENT DETAILS

SHEET 7

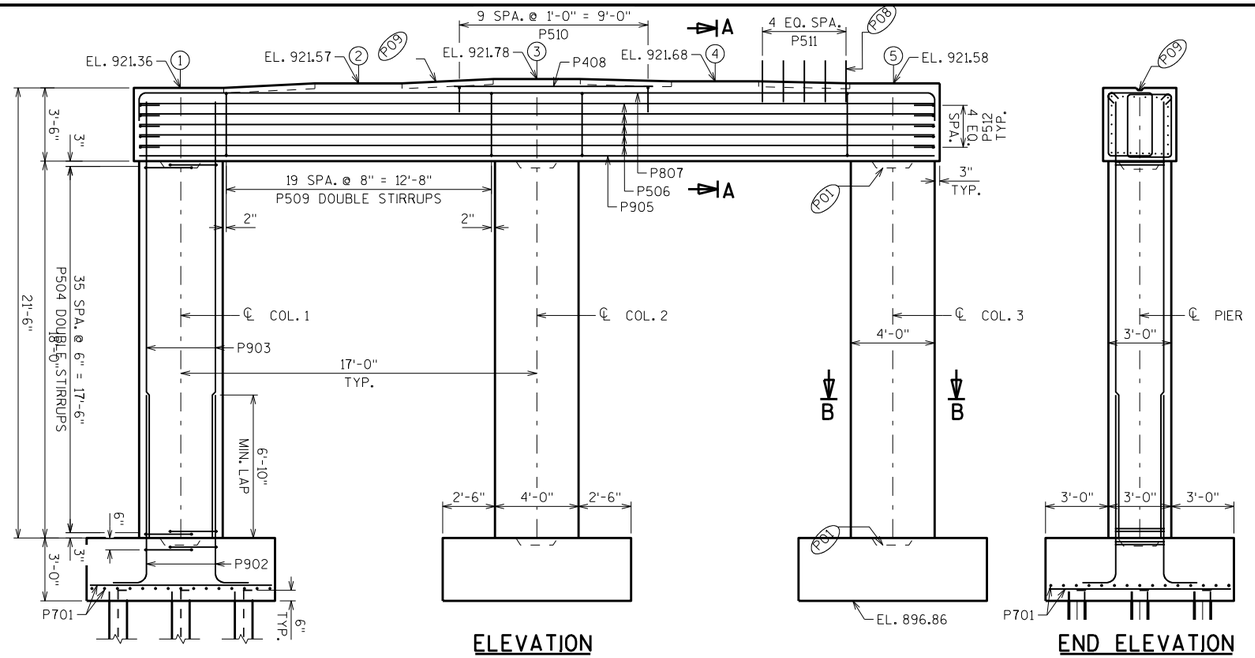
SCALE = 2.67

8

8

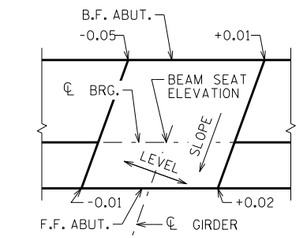
STATE PROJECT NUMBER

1021-03-74



ELEVATION

END ELEVATION

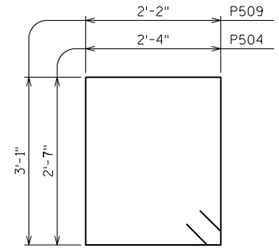


SLOPED BEAM SEAT DETAIL

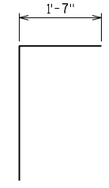
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

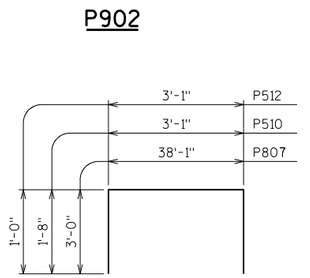
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
P701		90	8'-7"			FOOTING - HORIZ.
P902	X	54	10'-7"	X		COLUMN/FOOTING - VERT.
P903	X	54	20'-8"			COLUMN - VERT.
P504	X	228	10'-6"	X		COLUMN - STIRRUP
P905	X	10	38'-2"			CAP - HORIZ. - BOTTOM
P506	X	10	38'-2"			CAP - HORIZ. - SIDES
P807	X	6	43'-10	X		CAP - HORIZ. - TOP
P408	X	4	9'-6"			CAP - HORIZ. - UNDER BEAM 3
P509	X		10'-0"	X		CAP - STIRRUP
P510	X		6'-2"	X		CAP - VERT. - UNDER BEAM 3
P511	X		2'-0"			DOWEL BARS
P512	X		4'-10"	X		CAP - HORIZ. - ENDS



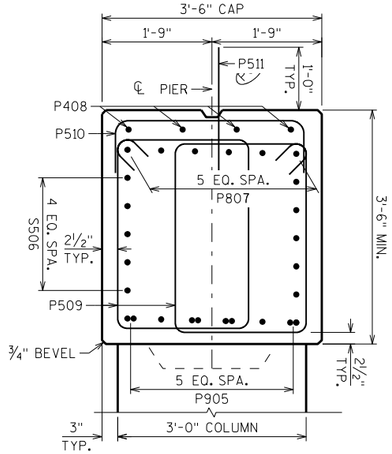
P504, P509



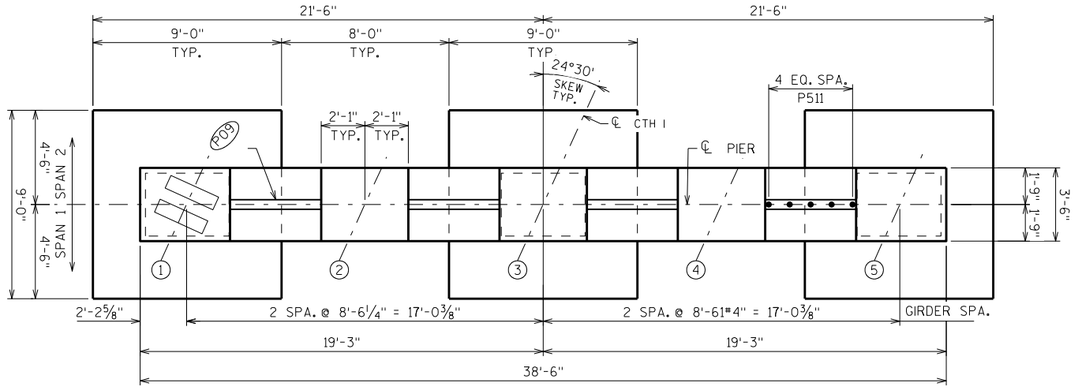
P902



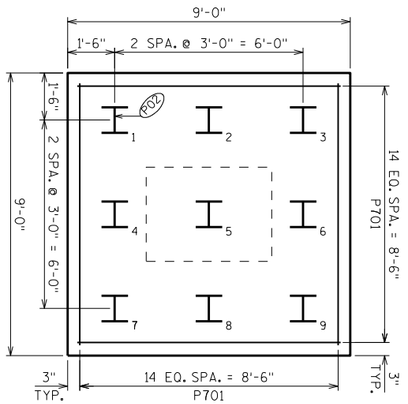
P807, P510, P512



SECTION A-A: CAP

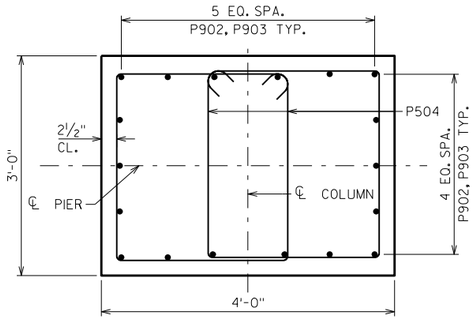


PLAN

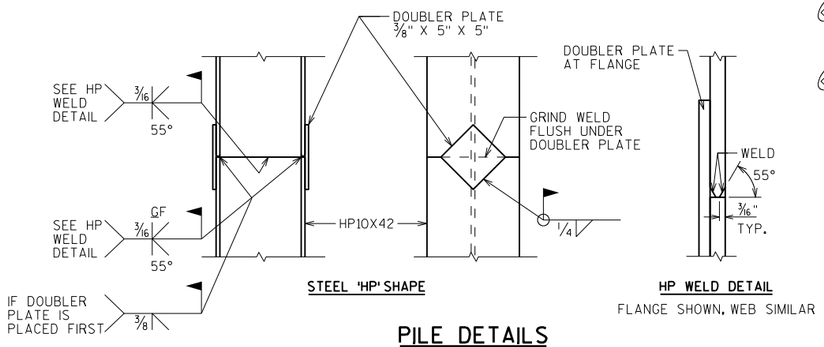


FOOTING/PILE PLAN

TYPICAL ALL FOOTINGS



SECTION THRU COLUMN



STEEL 'HP' SHAPE

HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

PILE DETAILS

P01 1'-3" x 2'-0" x 4" CONST. JOINT FORMED BY BEVELED KEYWAY.

P02 SUPPORT PIER ON HP 10 x 42 STEEL PILING, ESTIMATED 180'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.

P08 P511 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYED CONST. JOINT-FORMED BY BEVELED 2 x 6 BETWEEN BEAM SEATS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-232

DRAWN BY SAD | PLANS CK'D. MWB

PIER

SHEET 8

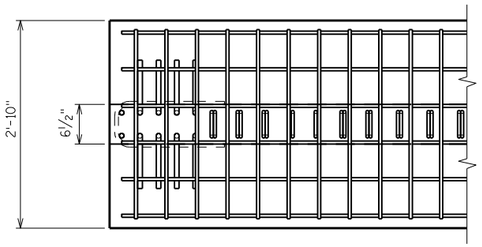
SCALE = 3.50

8

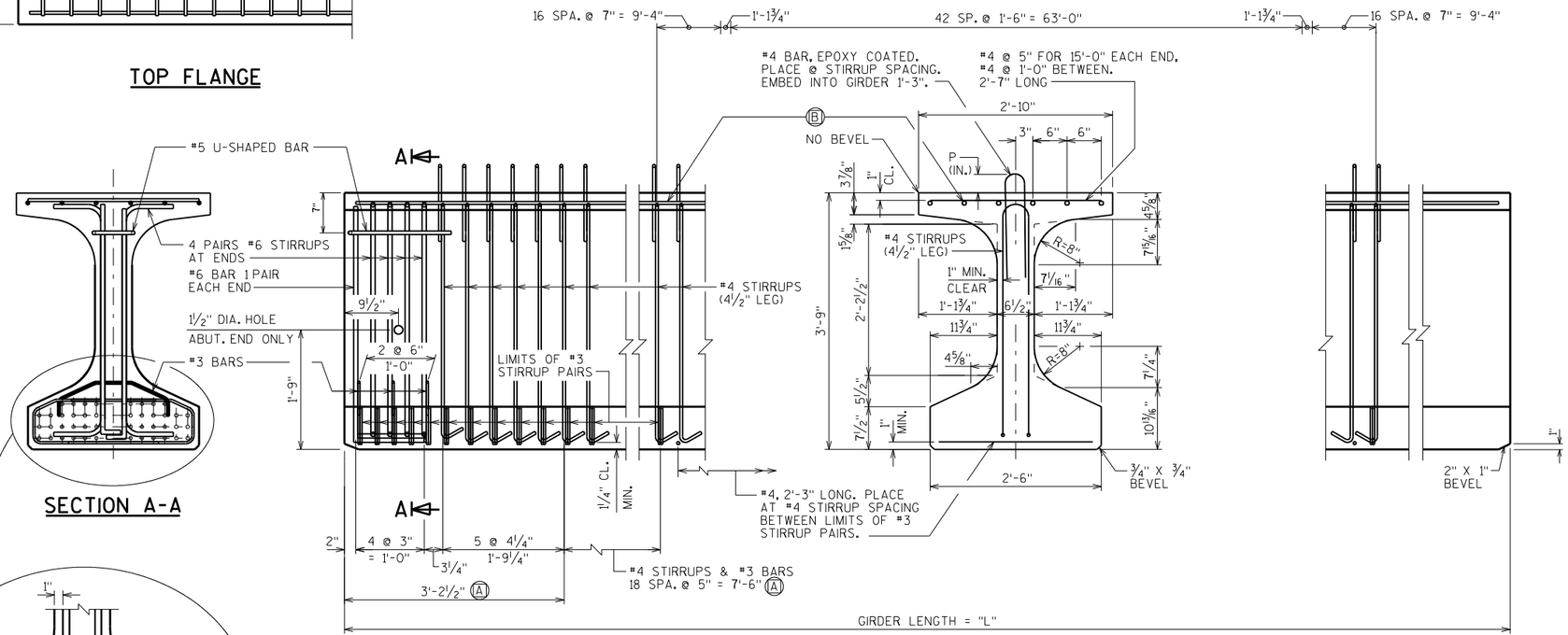
8

STATE PROJECT NUMBER

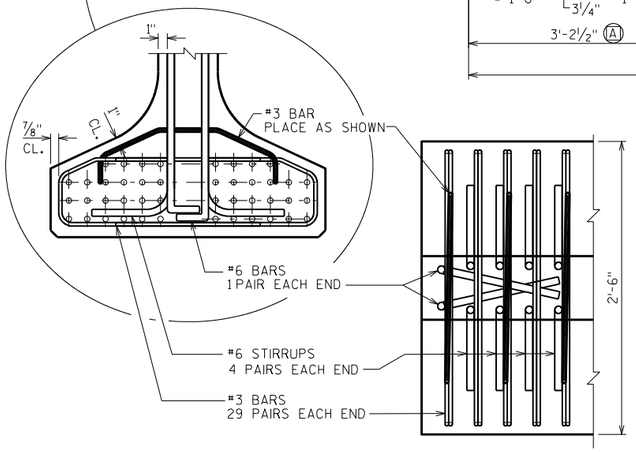
1021-03-74



TOP FLANGE



SECTION A-A



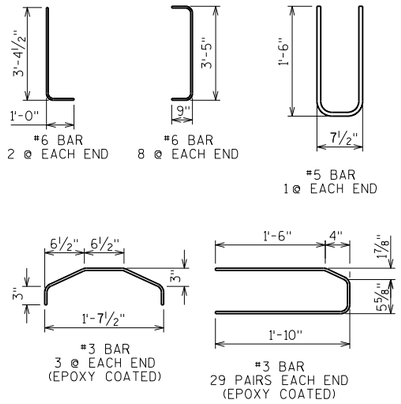
BOTTOM FLANGE

SIDE VIEW & TYPICAL SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11"

(SPAN 1) 6 #4, 1'-11" MIN. LAP
(SPAN 2) 6 #4, 1'-11" MIN. LAP



NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER OR EPOXY TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECT. 503.3.3 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

✳ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.)									CONC. STRGTH. f'c (p.s.i.)	"P" 1ST ⅓ OF GIRDER	"P" MID ⅓ OF GIRDER	"P" END ⅓ OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN						UNDRAPED PATTERN	
			1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10						TOTAL NO. OF STRANDS	f'ci (P.S.I.)	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	TOTAL NO. OF STRANDS	f'ci (P.S.I.)
1	1-5	105.38	0.70	1.33	1.82	2.12	2.22	2.11	1.79	1.30	0.68	8000	7	7	7	0.60	32	6800	40.0	13.75	16.75	5.0		
2	1-5	105.38	0.68	1.30	1.79	2.11	2.22	2.12	1.82	1.33	0.70	8000	7	7	7	0.60	32	6800	40.0	13.75	16.75	5.0		

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-232

DRAWN BY MJH | PLANS CK'D. MWB

45W" PRESTRESSED GIRDER DETAILS 1

SHEET 9

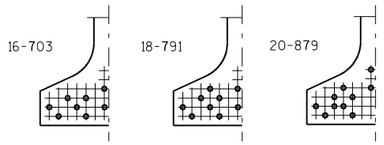
SCALE = 1.00

8

8

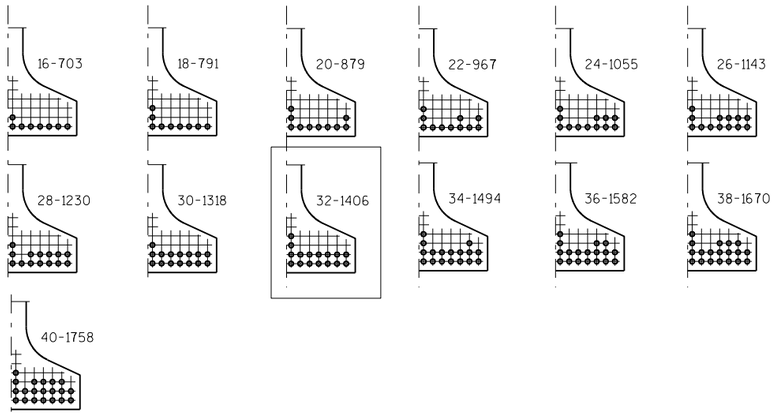
STATE PROJECT NUMBER

1021-03-74



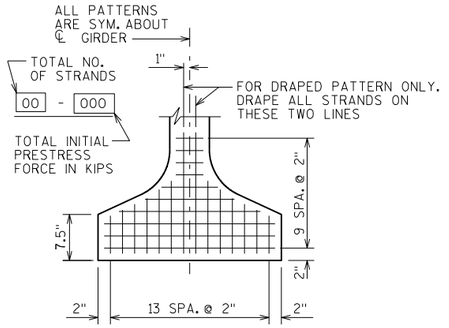
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"Φ STRANDS

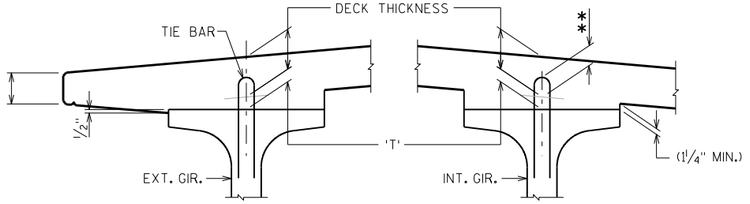


ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"Φ STRANDS



TYP. STRAND PATTERN



DECK HAUNCH DETAIL

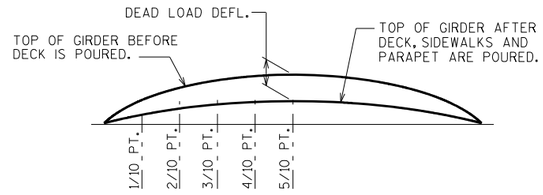
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

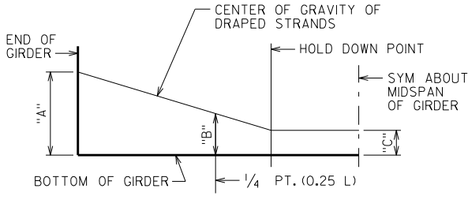
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- DECK THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 2⅝" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM



DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER (IN.)*
1	3.30
2	3.30

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T'. USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-232

DRAWN BY MJH | PLANS CK'D. MWB

45W" PRESTRESSED GIRDER DETAILS 2

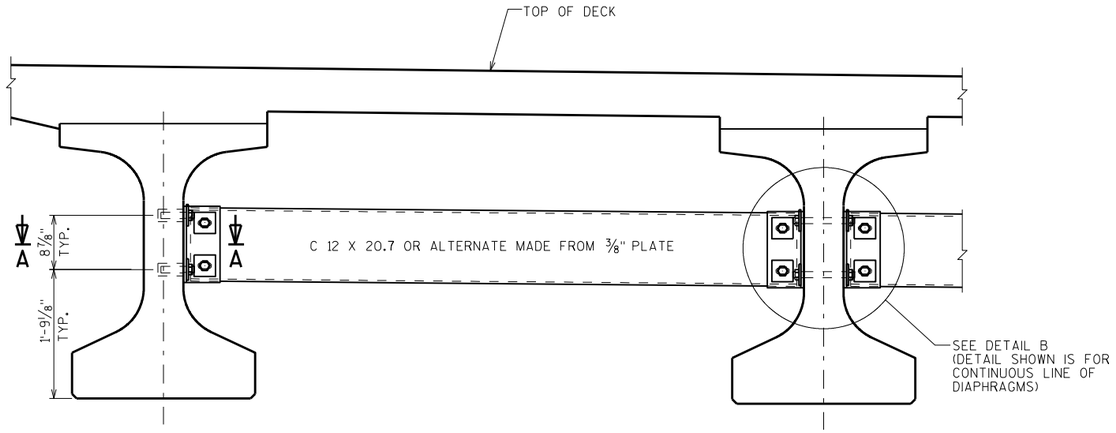
SHEET 10

SCALE = 1.00

8

8

STATE PROJECT NUMBER
1021-03-74



PART TRANSVERSE SECTION AT DIAPHRAGM

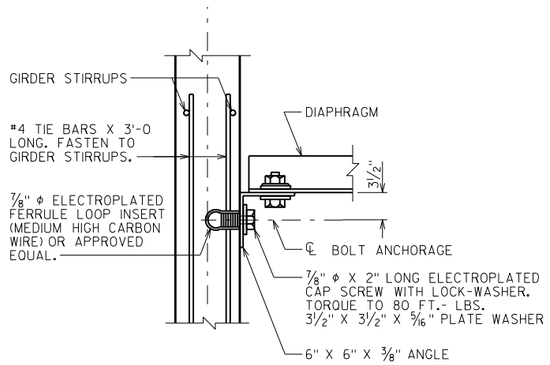
NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-___-__", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

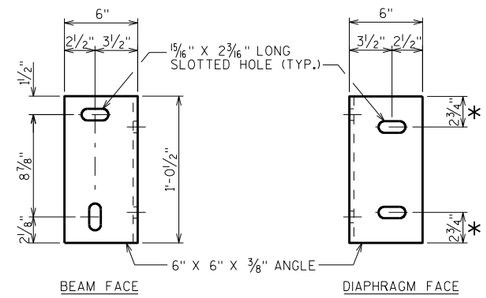
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR COATED NUTS.



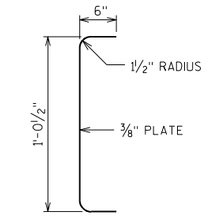
SECTION A-A

(FOR EXTERIOR ATTACHMENT)

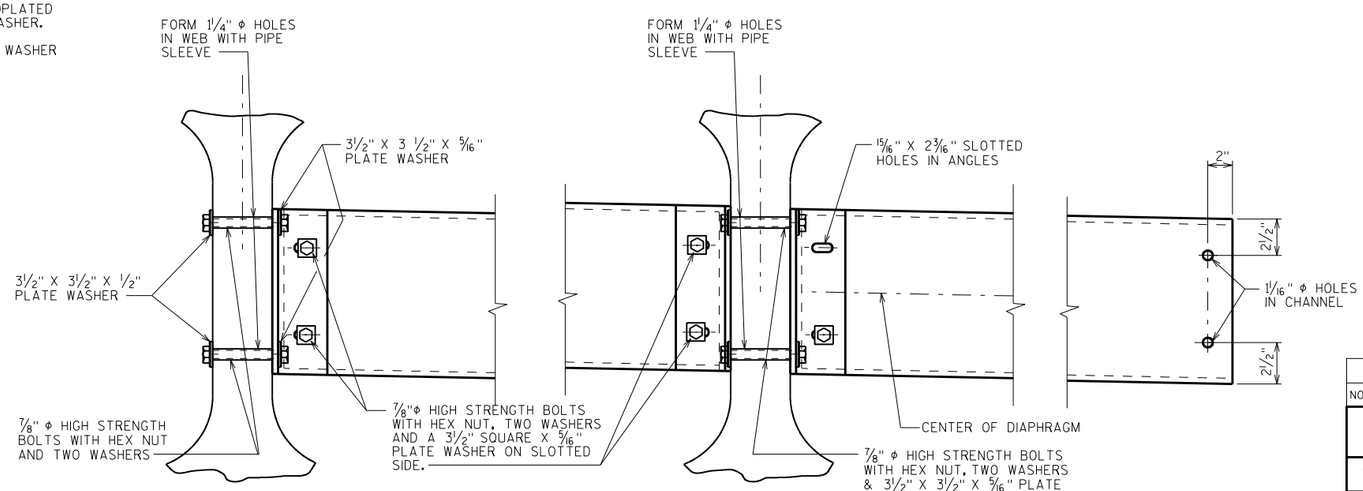


DIAPHRAGM SUPPORT

* 2½" FOR ALTERNATE PLATE DIAPHRAGM



SECTION THRU ALTERNATE DIAPHRAGM



(FOR STAGGERED DIAPHRAGM)

(FOR CONTINUOUS LINE OF DIAPHRAGMS)

DETAIL B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-232

DRAWN BY MJH | PLANS CK'D. MWB

STEEL DIAPHRAGM

SHEET 11

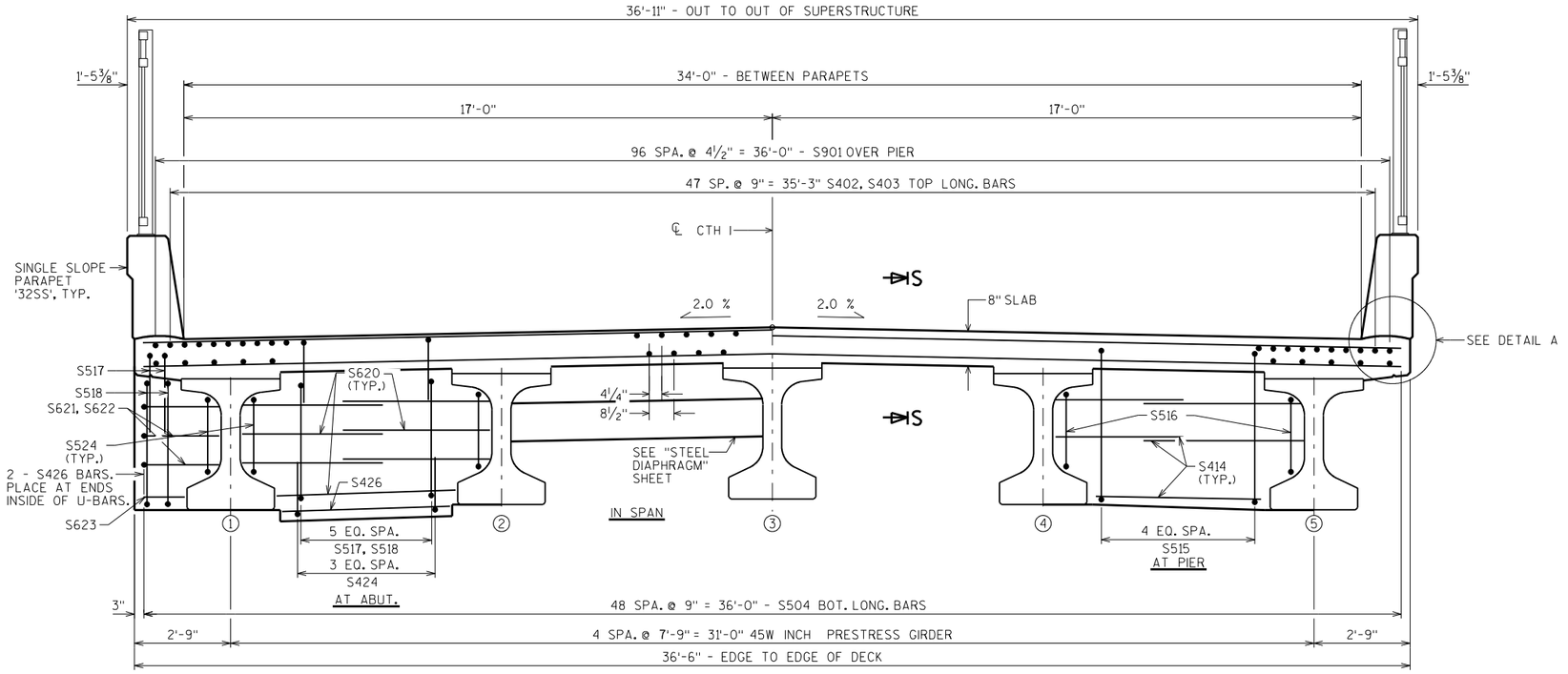
SCALE = 1.00

8

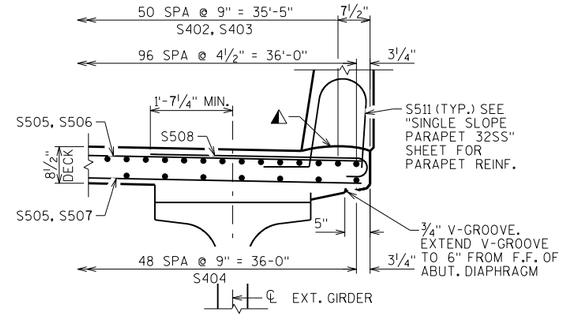
8

STATE PROJECT NUMBER

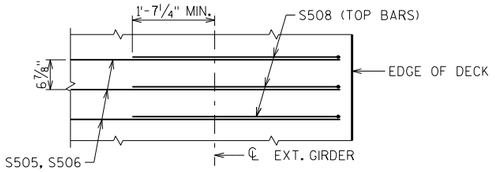
1021-03-74



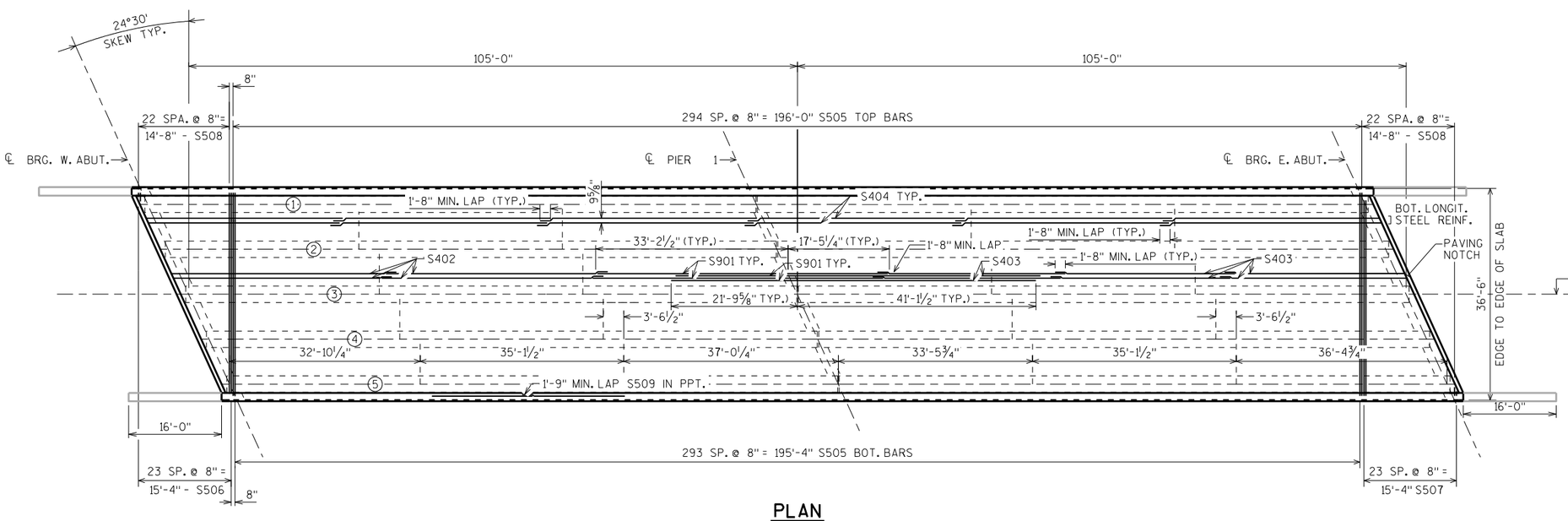
CROSS SECTION THRU ROADWAY
(LOOKING EAST)



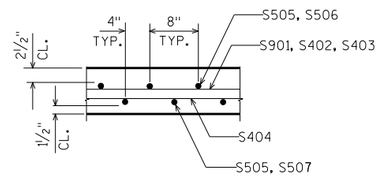
DETAIL A



ADDITIONAL REINF. DETAIL
(TYP. AT BOTH SIDES OF DECK)



PLAN



SECTION S-S

⚠ HORIZONTAL CONSTRUCTION JOINT-STRIKE OFF AND LEAVE ROUGH AS SHOWN.

◯ INDICATES GIRDER NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-232

DRAWN BY MJH | PLANS CK'D. MWB

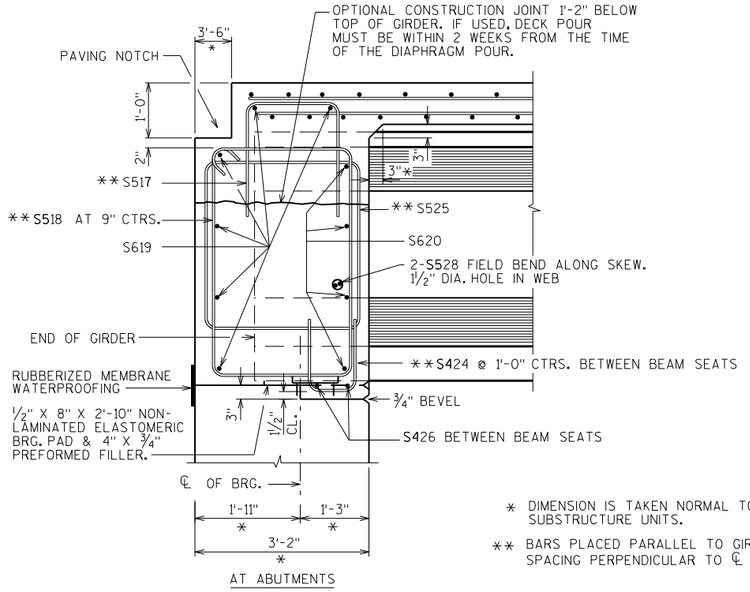
SUPERSTRUCTURE

SHEET 12

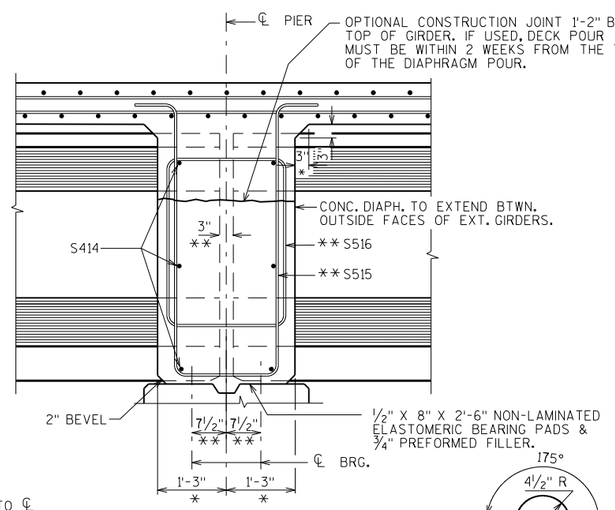
SCALE = 10.67

8

8



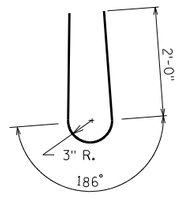
PART LONGIT. SECTION



AT PIER DIAPHRAGM

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

** BARS PLACED PARALLEL TO GIRDERS SPACING PERPENDICULAR TO ℄ GIRDERS



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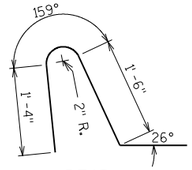

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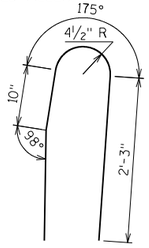

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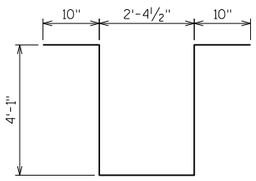

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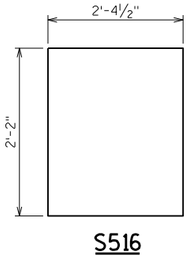

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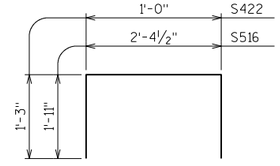
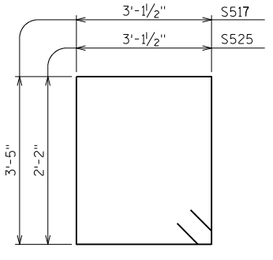


S517, S423



S518, S526

BILL OF BARS

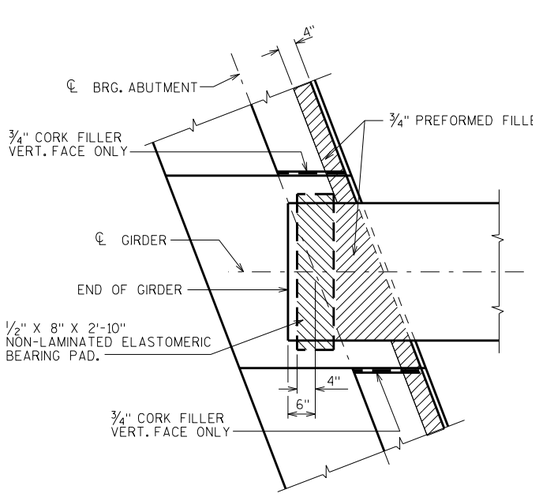
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

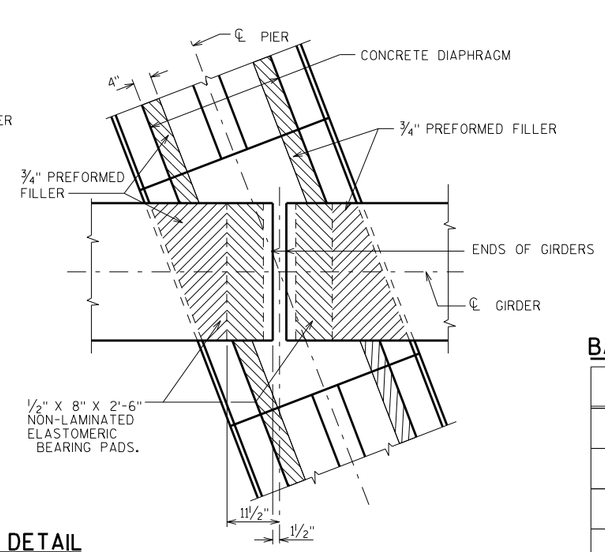
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S901	X	51	52'-0"			DECK-LONGIT.-CONTINUITY-OVER PIER
S402	X	102	38'-5"			DECK-LONGIT.-TOP-SPAN 1
S403	X	153	30'-8"			DECK-LONGIT.-BOT.-SPAN 2
S404	X	364	31'-9"			DECK-LONGIT.-BOT.
S505	X	589	36'-2"			TRANSVERSE TOP AND BOTTOM
S506	X	24	18'-6"		⚠	TRANSVERSE TOP CUT LEFT
S507	X	24	18'-6"		⚠	TRANSVERSE TOP CUT RIGHT
S508	X	23	18'-6"		⚠	TRANSVERSE BOT CUT
S509	X	23	18'-6"		⚠	TRANSVERSE BOT CUT RIGHT
S510	X	60	37'-1"			PARAPET-HORIZ.
S511	X	642	4'-10"	X		DECK & PARAPET-VERT.
S512	X	640	4'-2"	X		DECK & PARAPET-VERT.
S513	X	4	5'-10"	X		DECK & PARAPET-VERT. AT PAVING NOTCH
S414	X	48	4'-5"			PIER DIAPHRAGM-HORIZ.
S515	X	20	11'-9"	X		PIER_DIAPHRAGM-VERT.-BTWN._GIRDERS_____
S516	X	8	9'-9"	X		PIER_DIAPHRAGM-VERT.-_UNDER_FLANGES__
S517	X	64	6'-0"	X		ABUT._DIAPHRAGM-VERT._&_DECK_
S518	X	64	13'-9"	X		ABUT._DIAPHRAGM-VERT.-BTWN._GIRDERS__
S619	X	12	39'-9"			ABUT._DIAPH._HORIZ.-B.F._ABUT
S620	X	64	4'-10"			ABUT._DIAPH._HORIZ.-F.F._ABUT._BTWN_GIRDERS
S621	X	6	9'-10"	X		ABUT. DIAPH. HORIZ.-ENDS-WINGS 1 AND 3
S622	X	6	7'-9"	X		ABUT. DIAPH. HORIZ.-ENDS-WINGS 2 AND 4
S623	X	4	0'-8"			ABUT. DIAPH. HORIZ.-ENDS-BOT.
S424	X	50	3'-5"	X		ABUT. DIAPH. VERT.-BTWN. BEAM SEATS
S524	X	24	11'-2"	X		ABUT. DIAPH. VERT.-UNDER FLANGES
S426	X	20	2'-11"			ABUT. DIAPH. HORIZ.-BTWN. BEAM SEATS
S427	X	8	3'-8"			ABUT._DIAPH._VERT.-ENDS_____
S528	X	24	6'-0"			ABUT. DIAPH. HORIZ.-THRU GIRDER WEBS

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

STATE PROJECT NUMBER

1021-03-74



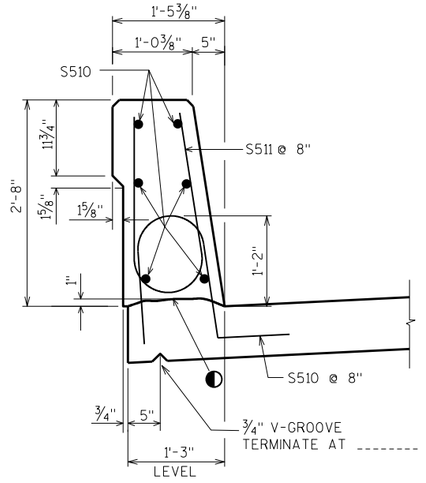


BEARING PAD DETAIL

BAR SERIES TABLE

MARK	NO. REQD.	LENGTH
S506	1 SERIES OF 24	1'-8" TO 35'-4"
S507	1 SERIES OF 24	1'-8" TO 35'-4"
S508	1 SERIES OF 23	2'-5" TO 34'-7"
S509	1 SERIES OF 23	2'-5" TO 34'-7"

BUNDLE AND TAG EACH SERIES SEPARATELY



SECTION THRU PARAPET ON BRIDGE

TOP OF DECK ELEVATIONS

	W. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 1	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	E. ABUT.
EOD	923.77	924.04	924.30	924.55	924.78	925.01	925.22	925.43	925.62	925.80	925.98	926.14	926.29	926.43	926.56	926.67	926.78	926.88	926.96	927.04	927.10
GIR. 1	923.83	924.10	924.35	924.60	924.84	925.06	925.28	925.48	925.67	925.85	926.03	926.19	926.33	926.47	926.60	926.72	926.82	926.92	927.00	927.08	927.14
GIR. 2	924.08	924.34	924.59	924.84	925.07	925.29	925.50	925.70	925.89	926.07	926.24	926.39	926.54	926.67	926.80	926.91	927.01	927.10	927.18	927.25	927.31
GIR. 3	924.32	924.58	924.83	925.07	925.30	925.52	925.72	925.92	926.10	926.28	926.44	926.60	926.74	926.87	926.99	927.10	927.20	927.29	927.36	927.43	927.49
GIR. 4	924.26	924.51	924.76	924.99	925.22	925.43	925.64	925.83	926.01	926.18	926.34	926.49	926.63	926.76	926.87	926.98	927.07	927.16	927.23	927.30	927.35
GIR. 5	924.19	924.44	924.68	924.92	925.14	925.35	925.55	925.73	925.91	926.08	926.24	926.38	926.52	926.64	926.76	926.86	926.95	927.03	927.10	927.16	927.21
EOD	924.17	924.43	924.67	924.90	925.12	925.33	925.53	925.71	925.89	926.06	926.21	926.36	926.49	926.62	926.73	926.83	926.92	927.00	927.07	927.13	927.18

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-232

DRAWN BY MJH | PLANS CK'D. MWB

SUPERSTRUCTURE DETAILS

SHEET 13

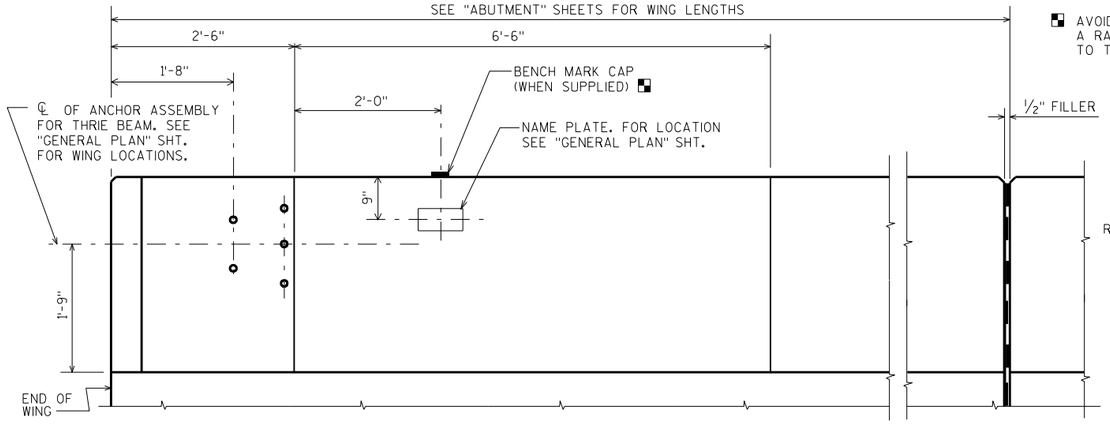
SCALE = 7.00

8

8

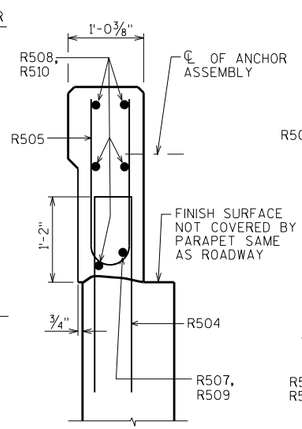
STATE PROJECT NUMBER

1021-03-74

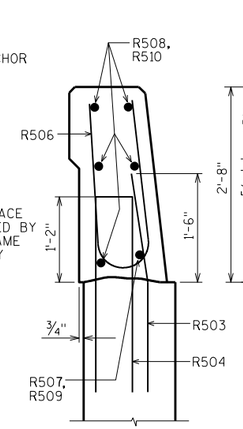


INSIDE ELEVATION

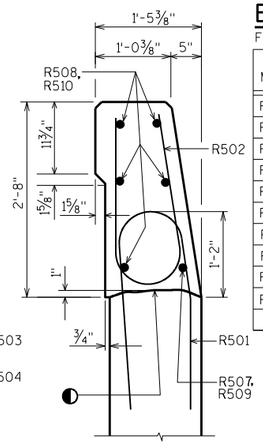
■ AVOID PLACING A BENCH MARK CAP BELOW A RAIL OR FENCE SYSTEM THAT IS ATTACHED TO THE TOP OF THE PARAPET.



SECTION A



SECTION B

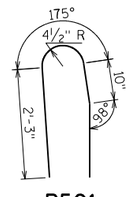


SECTION C

BILL OF BARS

FOR ABUTMENT PARAPETS

BAR MARK	COAT	S ABUT.	N ABUT.	LENGTH	BENT	BAR SERIES	LOCATION
R501	X	30	30	5'-10"	X		PARAPET VERT.
R502	X	30	30	5'-0"	X		PARAPET VERT.
R503	X	24	24	3'-0"	X		PARAPET VERT.
R504	X	34	34	5'-7"	X		PARAPET VERT.
R505	X	22	22	4'-9"	X		PARAPET VERT.
R506	X	12	12	4'-10"	X		PARAPET VERT.
R507	X	1	1	15'-6"	X		PARAPET HORIZ.
R508	X	5	5	15'-6"			PARAPET HORIZ.
R509	X	1	1	19'-6"	X		PARAPET HORIZ.
R510	X	5	5	19'-6"			PARAPET HORIZ



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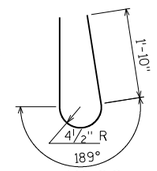

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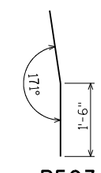
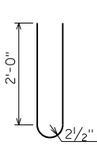


R503

R504



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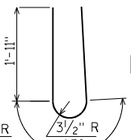

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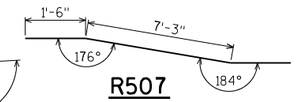
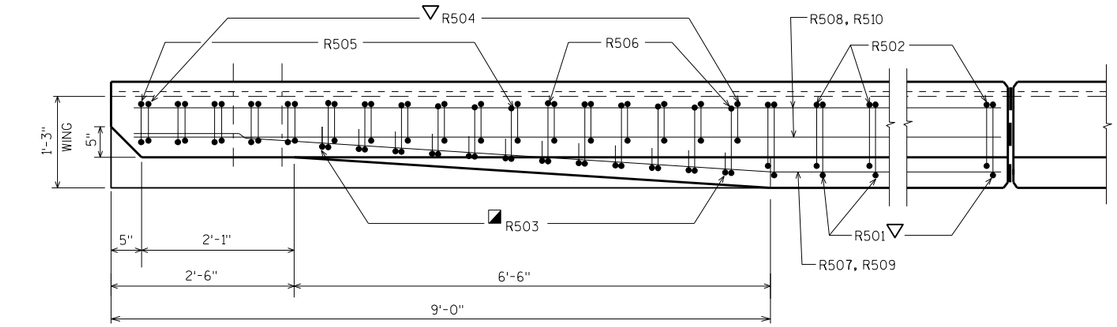
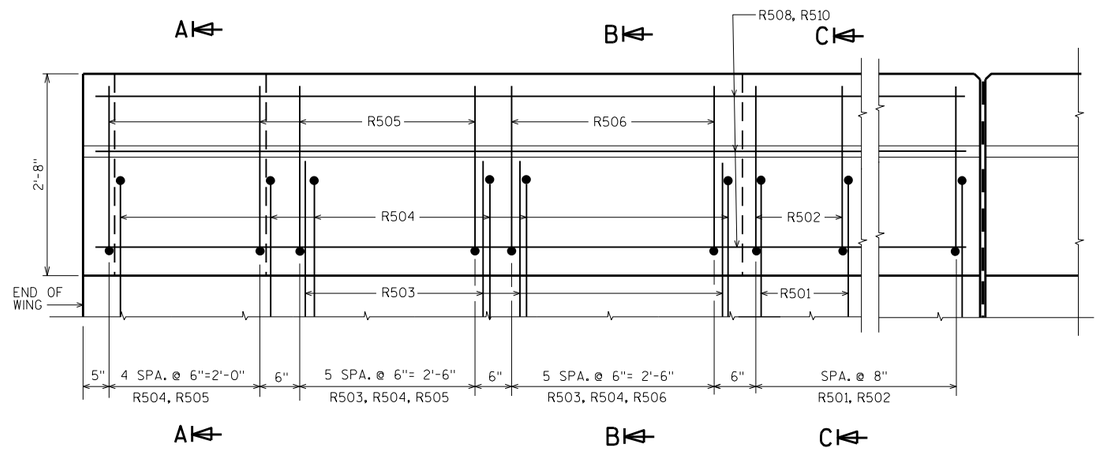


R507
R509

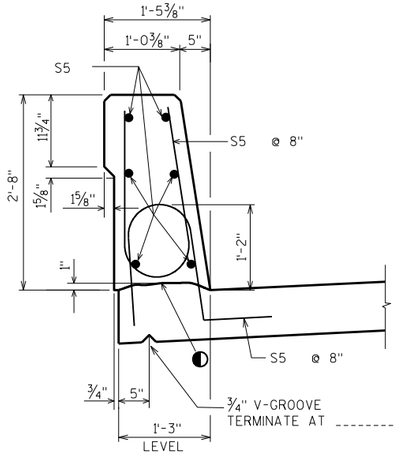


PLAN

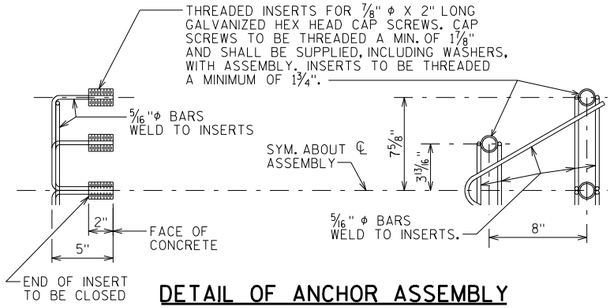
OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A 3/4" - 'V' GROOVE.



OUTSIDE ELEVATION



SECTION THRU PARAPET ON BRIDGE



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

◪ R503 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 OR S503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R501 AND R504 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-232

DRAWN BY MJH | PLANS CK'D. MWB

SINGLE SLOPE PARAPET 32SS

SHEET 14

SCALE = 1.00

8

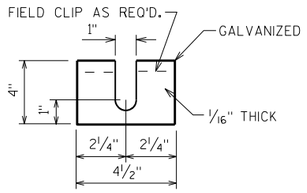
8

STATE PROJECT NUMBER

1021-03-74

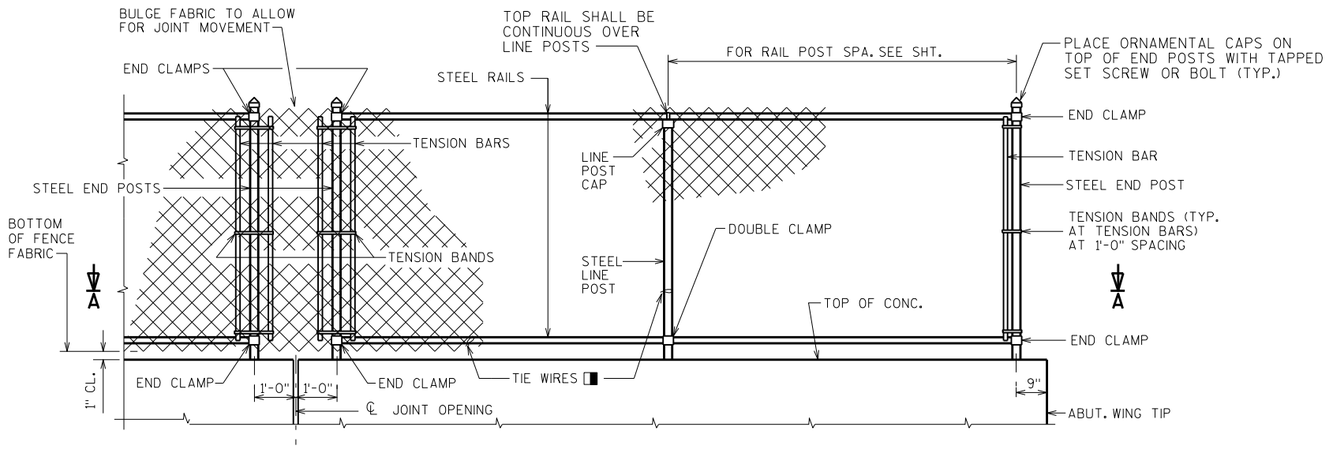
FENCE MEMBER SIZE & WEIGHT

STEEL FENCE MEMBER	OUTSIDE DIAMETER (INCHES)	WEIGHT (LB/FT)
RAILS	1.660	2.27
END POST	2.875	5.80
OVERHANG POST	2.875	5.80
LINE POST	2.375	3.65
POST SLEEVE	4.000	9.12



POST SHIM DETAILS

SHIMS REQUIRED ONLY WHEN END POSTS AND LINE POSTS ARE WELDED TO BASE PLATES. PROVIDE 4 SHIMS PER POST. USE WHERE REQUIRED FOR ALIGNMENT.



FENCE PART ELEVATION

VIEWING FABRIC SIDE

NOTES

POSTS ARE TO BE SET VERTICAL.

ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL WITH A COLORED POLYMER-COATING ON THE OUTSIDE.

FABRIC SHALL CONFORM TO ASTM F668, CLASS 2B. STEEL RAILS, POSTS AND POST SLEEVES SHALL CONFORM TO ASTM F1083, STANDARD WEIGHT PIPE (SCHEDULE 40). FITTINGS SHALL CONFORM TO ASTM F626. SEE THE "BRIDGE SPECIAL PROVISIONS" FOR ADDITIONAL DETAILS.

THE COLOR OF POLYMER-COATING FOR THIS STRUCTURE SHALL BE _____ IN ACCORDANCE WITH ASTM F934.

THE BID ITEM SHALL BE "FENCE CHAIN LINK POLYMER-COATED _- FT. B-18-232", LF.

COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE GALVANIZING.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

BASE PLATES, ANCHOR PLATES AND SHIMS SHALL BE ASTM A709, GRADE 36.

ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG THE C/L OF THE POST.

■ CAULK AROUND PERIMETER OF BASE PLATE AND FILL PORTION OF SLOTTED HOLE AROUND ANCHOR BOLT IN SHIM WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

✳ ALTERNATE TO DOUBLE CLAMP: USE LINE RAIL CLAMP (BOULEVARD) OR 180° BRACE BAND, WHICH MAY BE USED WHEN THE POSTS ARE EITHER BOLTED TO THE POST SLEEVES OR DIRECTLY WELDED TO THE BASE PLATE.

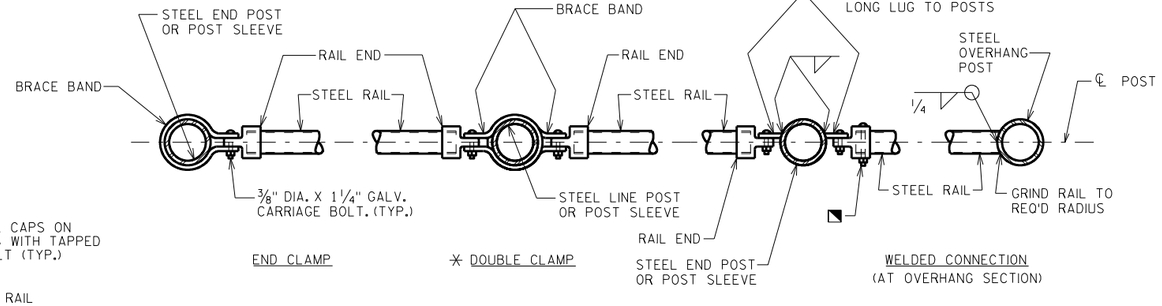
◭ 1/2" DIA. X 6 7/8" LONG GALVANIZED HEX BOLT WITH NUT & WASHER. ☆

☆ ALTERNATIVE ANCHORAGE: CONCRETE ADHESIVE ANCHORS 1/2-INCH. EMBED 7" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTION 502.2.12 OF THE STANDARD SPECIFICATIONS.

◨ ATTACH FABRIC TO RAILS, AND TO POSTS WITHOUT TENSION BANDS, WITH TIE WIRES (ROUND, 9-GAGE) SPACED AT 1'-0".

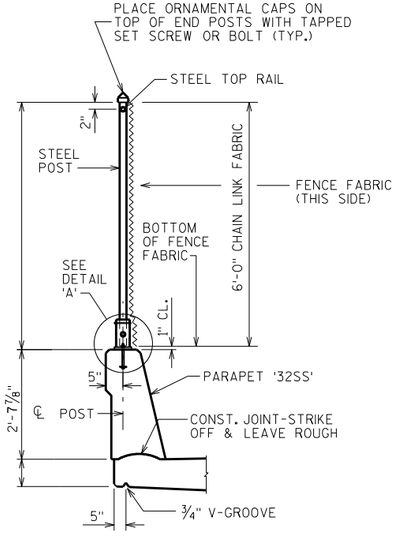
◥ BOLT RAIL TO RAIL END TO SECURE OVERHANG SECTION. ALTERNATE IS TO WELD RAIL DIRECTLY TO END POST.

MINIMUM LENGTH OF TOP RAIL BETWEEN SPLICES SHALL BE 20'-0". LOCATE SPLICES NEAR 1/4 POINT OF POST SPACING.

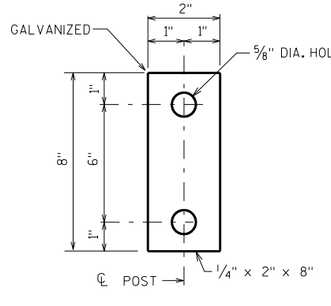


SECTION A-A

NOTE: PLACE ALL BOLT HEADS ON SIDE OF FENCE ADJACENT TO PEDESTRIANS

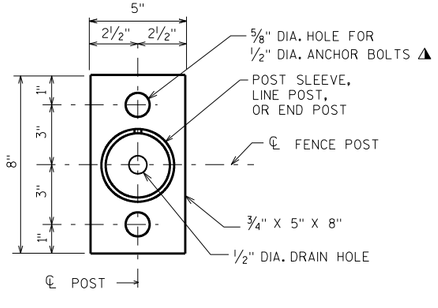


SECTION THRU FENCE

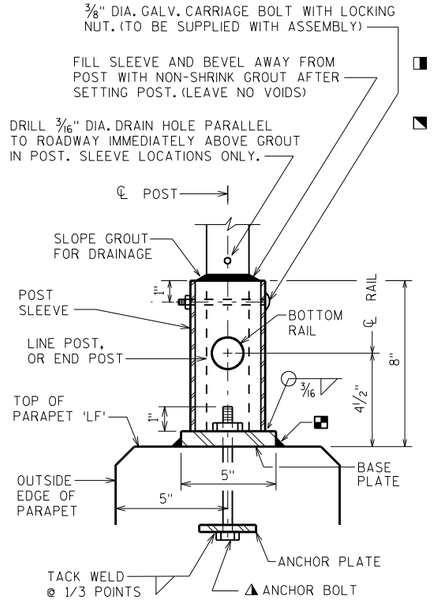


ANCHOR PLATE

☆NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.



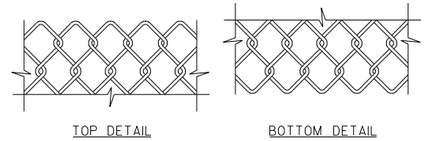
BASE PLATE



DETAIL 'A'

UNIT SHALL BE GALVANIZED AFTER FABRICATION

NOTE: IN LIEU OF USING THE POST SLEEVE, THE FENCE POST MAY BE WELDED TO THE BASE PLATE.



TOP DETAIL BOTTOM DETAIL

FENCE FABRIC

FENCE FABRIC WOVEN OF 9-GAGE WIRE IN 2" DIAMOND PATTERN MESH WITH BOTH THE TOP AND BOTTOM SELVAGES KNUCKLED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-232

DRAWN BY MJH | PLANS CK'D. MWB

FENCING DETAILS

SHEET 15

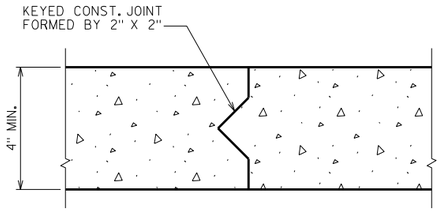
8

8

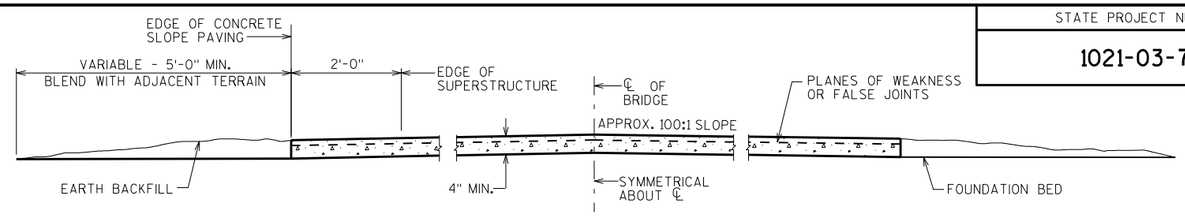
SCALE = 5.33

STATE PROJECT NUMBER

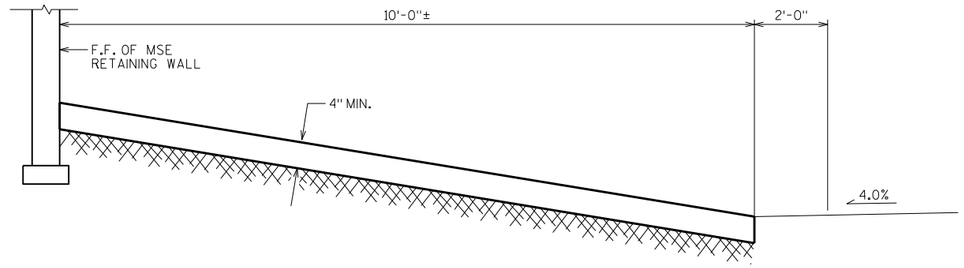
1021-03-74



CONSTRUCTION JOINT

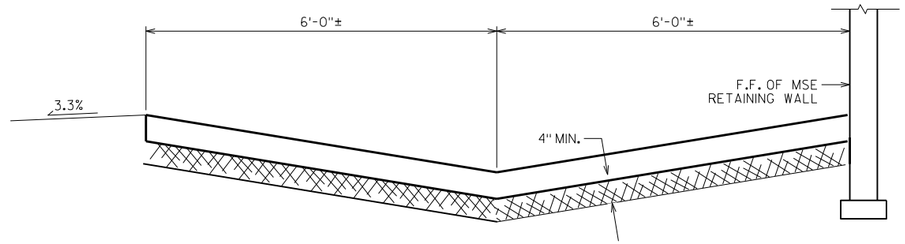


SECTION A-A



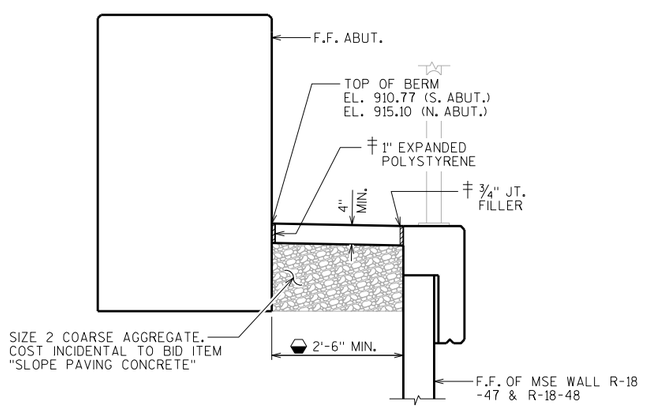
SOUTH CROSS SECTION SLOPE PAVING

(NORMAL TO MSE RETAINING WALL)

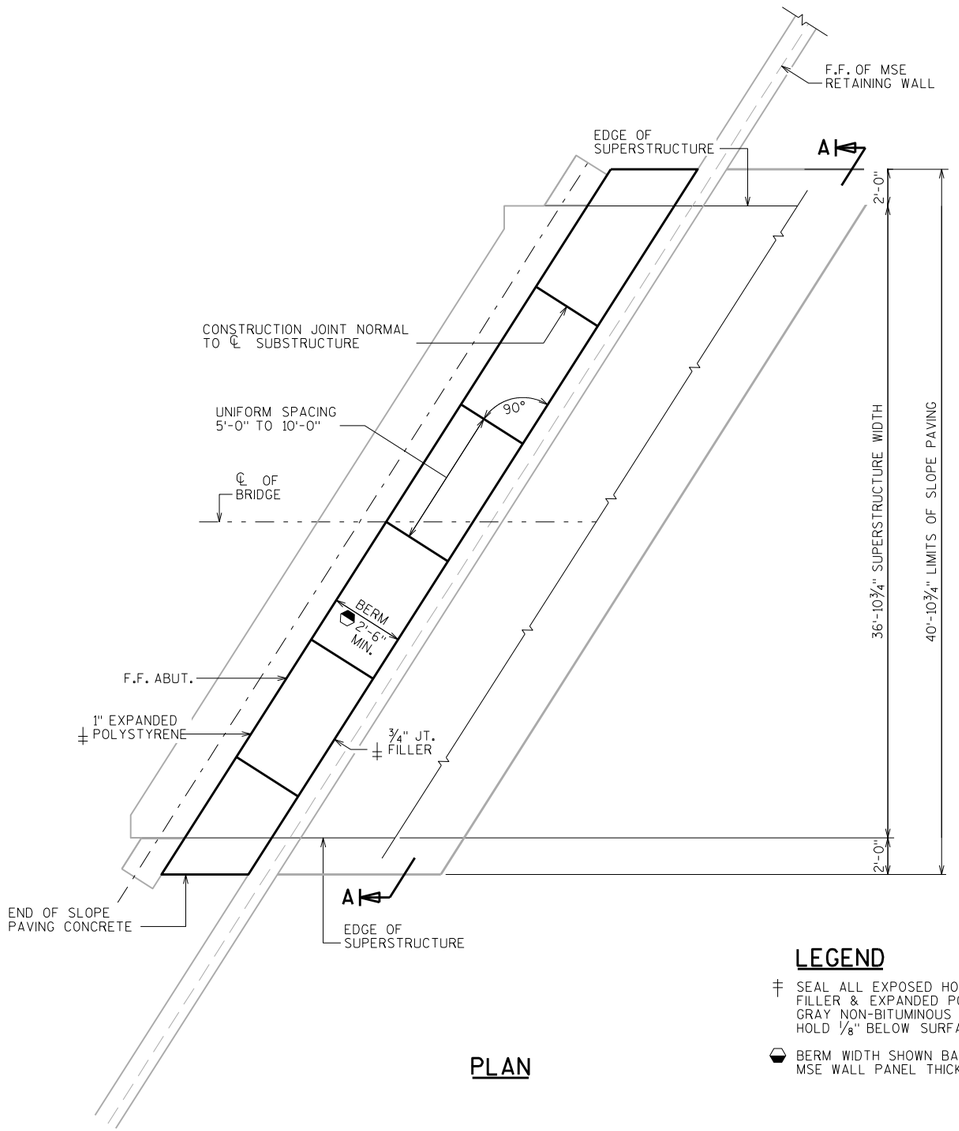


NORTH CROSS SECTION SLOPE PAVING

(NORMAL TO MSE RETAINING WALL)



TYPICAL SECTION SLOPE PAVING CONCRETE



PLAN

LEGEND

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER & EXPANDED POLYSTYRENE WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONC.)

BERM WIDTH SHOWN BASED ON ASSUMED MSE WALL PANEL THICKNESS OF 9".

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-232

DRAWN BY MJH | PLANS CK'D. MWB

SLOPE PAVING

SHEET 16

8

8

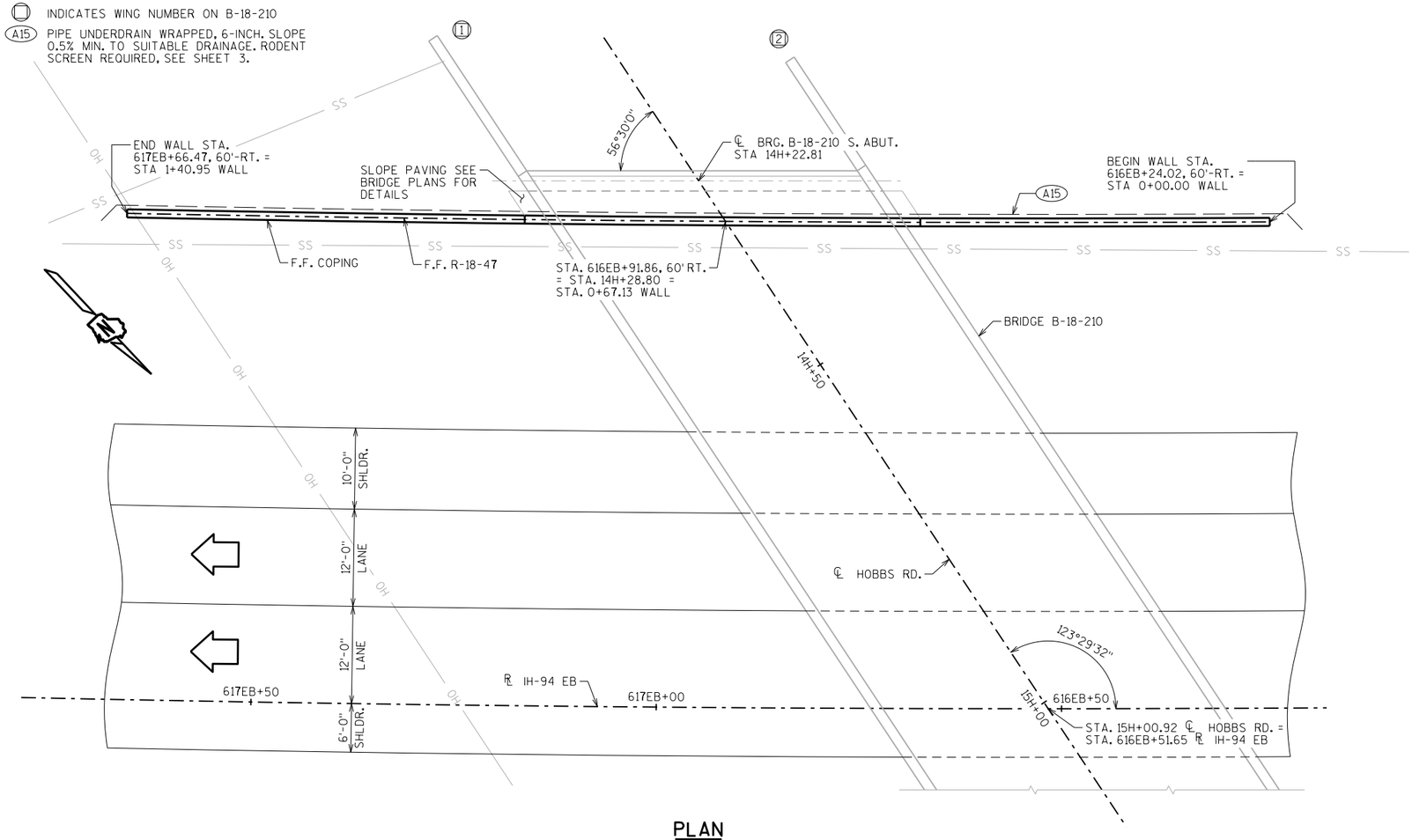
SCALE = 4.00

STATE PROJECT NUMBER

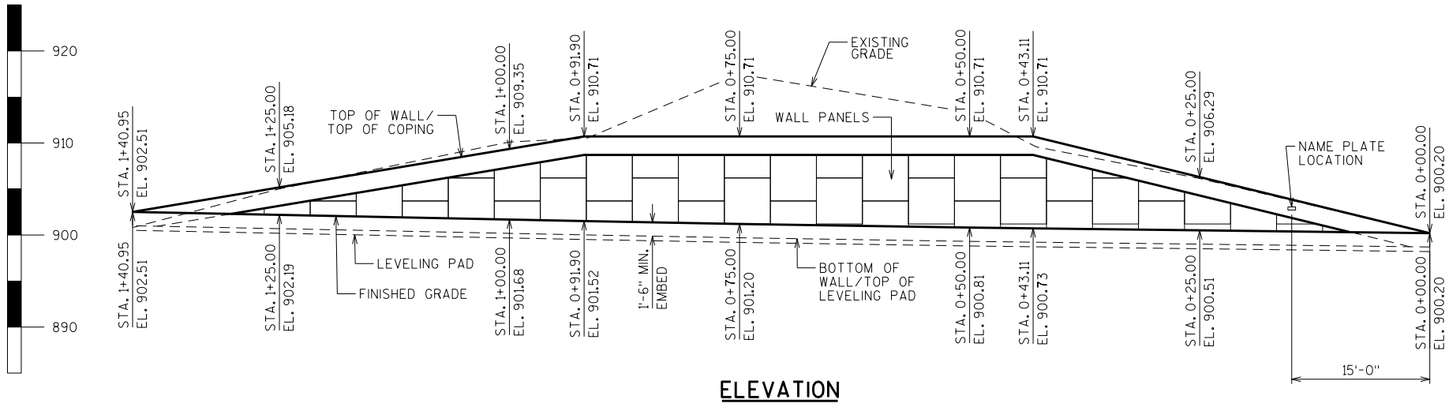
1021-03-74

(1) INDICATES WING NUMBER ON B-18-210

(A15) PIPE UNDERDRAIN WRAPPED, 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED, SEE SHEET 3.



PLAN



ELEVATION

LOOKING SOUTH AT F.F. WALL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP & HOLD 1/8" BELOW THE SURFACE OF CONCRETE).

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL R-18-47.

THE EXISTING GROUND LINE IS THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

THE PLAN QUANTITY FOR THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

COORDINATE THE CONSTRUCTION OF RETAINING WALL R-18-47 WITH THE SOUTH ABUTMENT OF BRIDGE B-18-210.

THE REMOVAL OF THE EXISTING STRUCTURE IS INCLUDED IN A LUMP SUM PAY ITEM FOR BRIDGE B-18-210.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MSE LRFD/QMP

MATERIAL PROPERTIES

CONCRETE MASONRY (COPING) ——— f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 P.S.I.

LIST OF DRAWINGS

CURVE DATA

IH-94 EB

P.I. = 606EB+04.99
△ = 27°29'16"
D = 1°00'00"
T = 1401.39'
L = 2748.81'
R = 5729.65'
S.E. = 3.40%
P.C. = 592EB+03.60
P.T. = 619EB+52.41

STRUCTURE DESIGN CONTACTS:

LAURA SHADEWALD (608) 267-9592
DANIELLE DE TENNIS (608) 266-8689

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION — BUREAU OF STRUCTURES

ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER _____ DATE

STRUCTURE R-18-47

MSE WALL ALONG S. ABUT B-18-210

COUNTY	TOWN/~~CITY/VILLAGE~~
EAU CLAIRE	WASHINGTON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
DFD	DLM	DFD	DLM

GENERAL PLAN

SHEET 1 OF 4

I.D. 1021-03-04C DATE: MAY 2017

SCALE = 8.00

STATE PROJECT NUMBER

1021-03-74

SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL WITHIN THE WALL IN THE REINFORCING ZONE	30	0	120
FILL BEHIND AND BELOW THE REINFORCING ZONE	31	0	120
BORING B-5, STA. 114+00, 9' RT OF ℄ HOBBS ROAD			
SAND, BROWN, FINE, LITTLE SILT EL. 904.6 TO EL. 903.1	32	0	120
SAND, BROWN, FINE, SOME SILT EL. 903.1 TO EL. 901.6	32	0	120
SAND, DARK BROWN, FINE, LITTLE SILT EL. 901.6 TO EL. 897.6	32	0	120
SAND, LIGHT BROWN, FINE EL. 897.6 TO EL. 895.6	30	0	115
SAND, BROWN, FINE, LITTLE SILT EL. 895.6 TO EL. 893.6	30	0	115
SILT, BROWN, TRACE FINE SAND EL. 893.6 TO EL. 878.6	30	0	115
SAND, BROWN, FINE EL. 878.6 TO EL. 872.6	30	0	115
SILT, BROWN, SOME FINE SAND EL. 872.6 TO EL. 868.6	30	0	115
SAND, BROWN, FINE EL. 868.6 TO EL. 858.6	32	0	120
SILT, BROWN, SOME FINE SAND SEAMS EL. 858.6 TO EL. 852.6	32	0	120
SAND, BROWN, FINE, LITTLE SILT EL. 852.6 TO EL. 843.6	33	0	125
SAND, GRAY, FINE, TRACE SILT EL. 843.6 TO EL. 827.6	34	0	125

WALL EXTERNAL STABILITY EVALUATION

DIMENSIONS		
WALL HEIGHT (FEET)[1]	11.5	9.6
EXPOSED WALL HEIGHT (FEET)	10	8.1
MINIMUM LENGTH OF REINFORCEMENT (FEET)	13.4	8.9
LENGTH OF REINFORCEMENT TO HEIGHT RATIO	1.16	0.93
BORING LOCATION USED	B-5	B-5
APPROXIMATE WALL STATION	0+91.6	1+00.0
CAPACITY TO DEMAND RATIO (CDR)[2]		
SLIDING (CDR > 1.0)	1.0	1.0
ECCENTRICITY (CDR > 1.0)	2.0	1.8
GLOBAL STABILITY (CDR > 1.0)	2.3	N/A[3]
BEARING RESISTANCE (CDR > 1.0)	1.7	1.7
FACTORED BEARING RESISTANCE (PSF)	6,500	5,000

NOTES:
1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 1.5 FEET.
2. CDR REQUIREMENTS AND LOAD AND RESISTANCE FACTORS ARE PRESENTED IN CHAPTER 14 OF THE BRIDGE MANUAL.
3. NA NOT APPLICABLE. GLOBAL SLOPE STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION.

GEOMETRY TABLE

WALL STATION	℄ IH-94 EB STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
0+00.00	616EB+24.02	60.0' RT.	900.20	900.20	900.20
0+25.00	616EB+49.29	60.0' RT.	906.29	900.51	906.14
0+43.11	616EB+67.59	60.0' RT.	910.71	900.72	909.58
0+50.00	616EB+74.55	60.0' RT.	910.71	900.81	913.32
0+75.00	616EB+99.82	60.0' RT.	910.71	901.20	917.48
0+91.90	617EB+16.90	60.0' RT.	910.71	901.52	910.53
1+00.00	617EB+25.08	60.0' RT.	909.35	901.68	910.11
1+25.00	617EB+50.34	60.0' RT.	905.18	902.19	905.01
1+40.95	617EB+66.47	60.0' RT.	902.51	902.51	900.81

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	155
SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-18-47	SF	910
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	½" & ¾"
	NON-BITUMINOUS JOINT SEALER	SIZE	½" & ¾"
	EXPANDED POLYSTYRENE	SIZE	1"

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP".

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLANS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

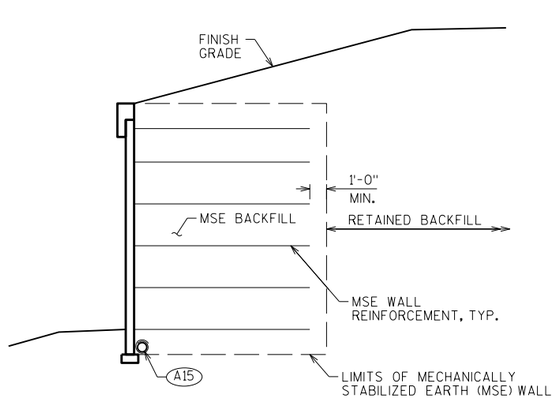
THE RETAINING WALL SHALL BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR THE RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN THE RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE DESIGN OF THE WALL IN FRONT OF THE ABUTMENT SHALL INCLUDE THE HORIZONTAL EARTH LOADS AND 240 PSF LIVE LOAD SURCHARGE ACTING ON THE BACK OF THE ABUTMENT BELOW THE BEAM SEATS.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.



TYPICAL SECTION
THRU MSE RETAINING WALL

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-18-47

DRAWN BY DFD | PLANS CK'D. DLM

QUANTITIES & WALL DATA

SHEET 2

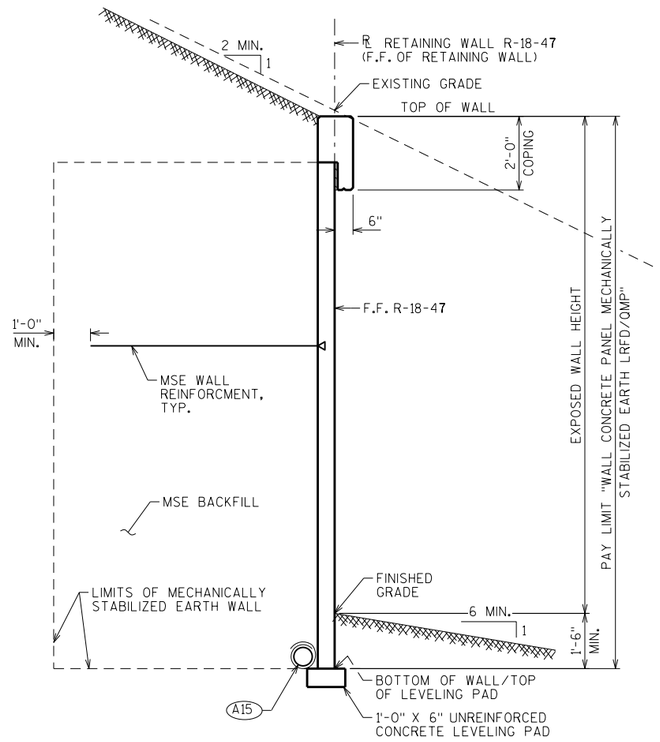
SCALE = 1.00

8

8

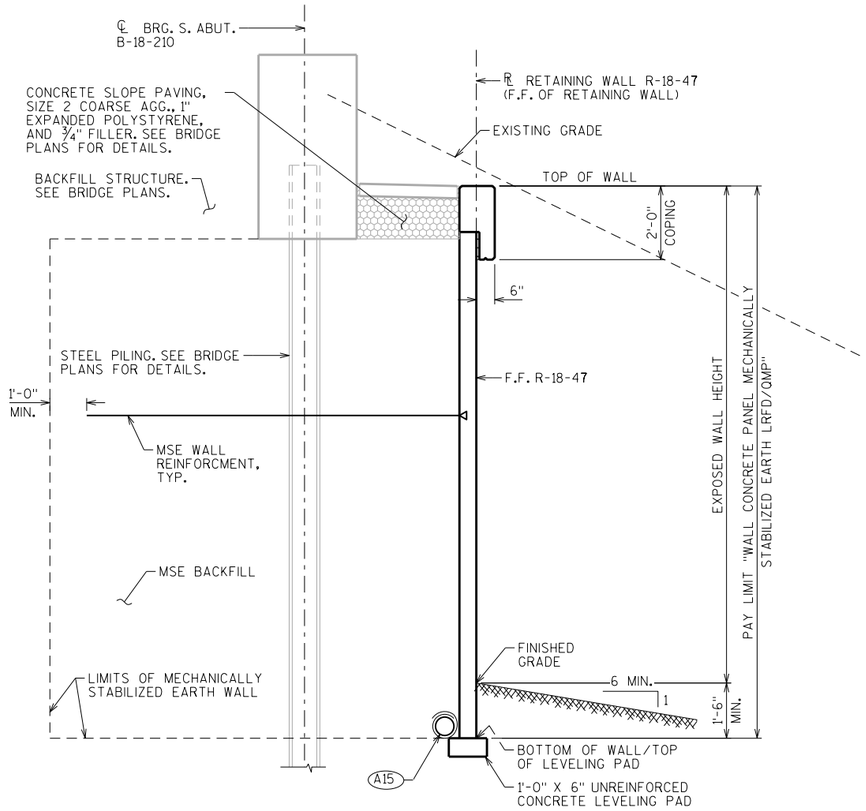
STATE PROJECT NUMBER

1021-03-74



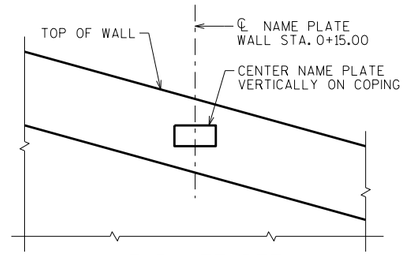
TYPICAL SECTION

LOOKING WEST
STA. 0+00.00 TO 0+43.11 &
STA. 0+91.90 TO 1+40.95

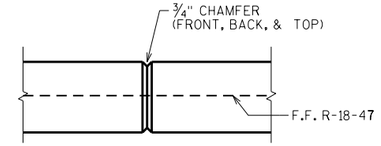


TYPICAL SECTION AT ABUTMENT

LOOKING WEST
0+43.11 TO 0+91.90

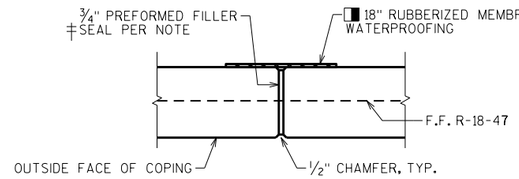


NAME PLATE DETAIL



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'

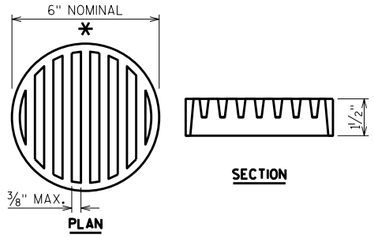


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLE ⅛" BELOW SURFACE OF CONC.)

▮ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.

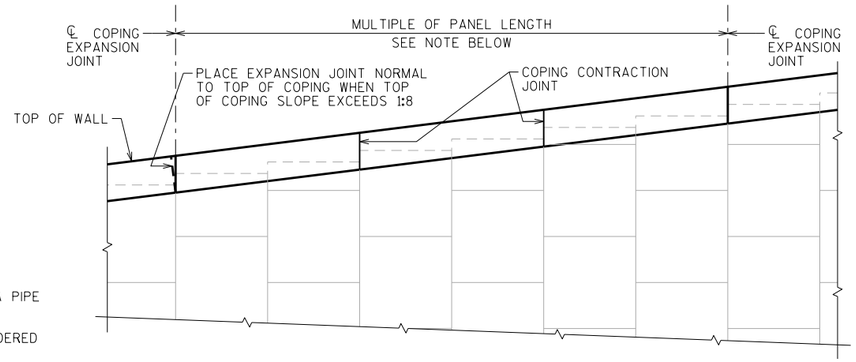


RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

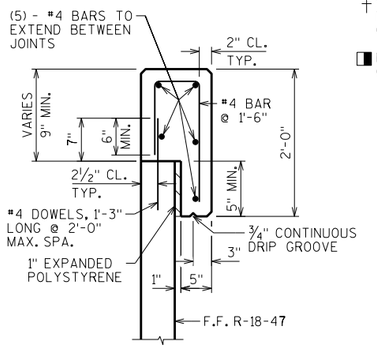
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



CAST-IN-PLACE COPING PARTIAL ELEVATION

LOOKING AT F.F. WALL

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.



CAST-IN-PLACE CONCRETE COPING DETAIL

Ⓐ15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-18-47

DRAWN BY DFD | PLANS CK'D. DLM

WALL DETAILS

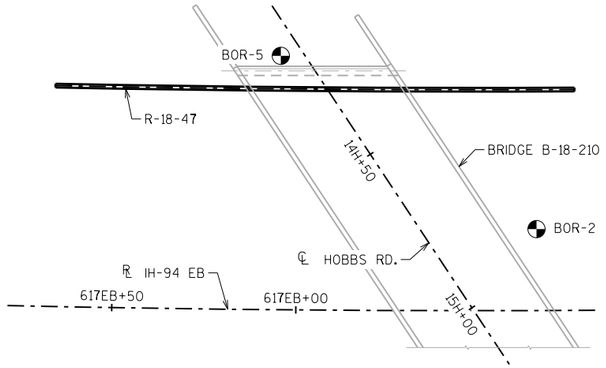
SHEET 3

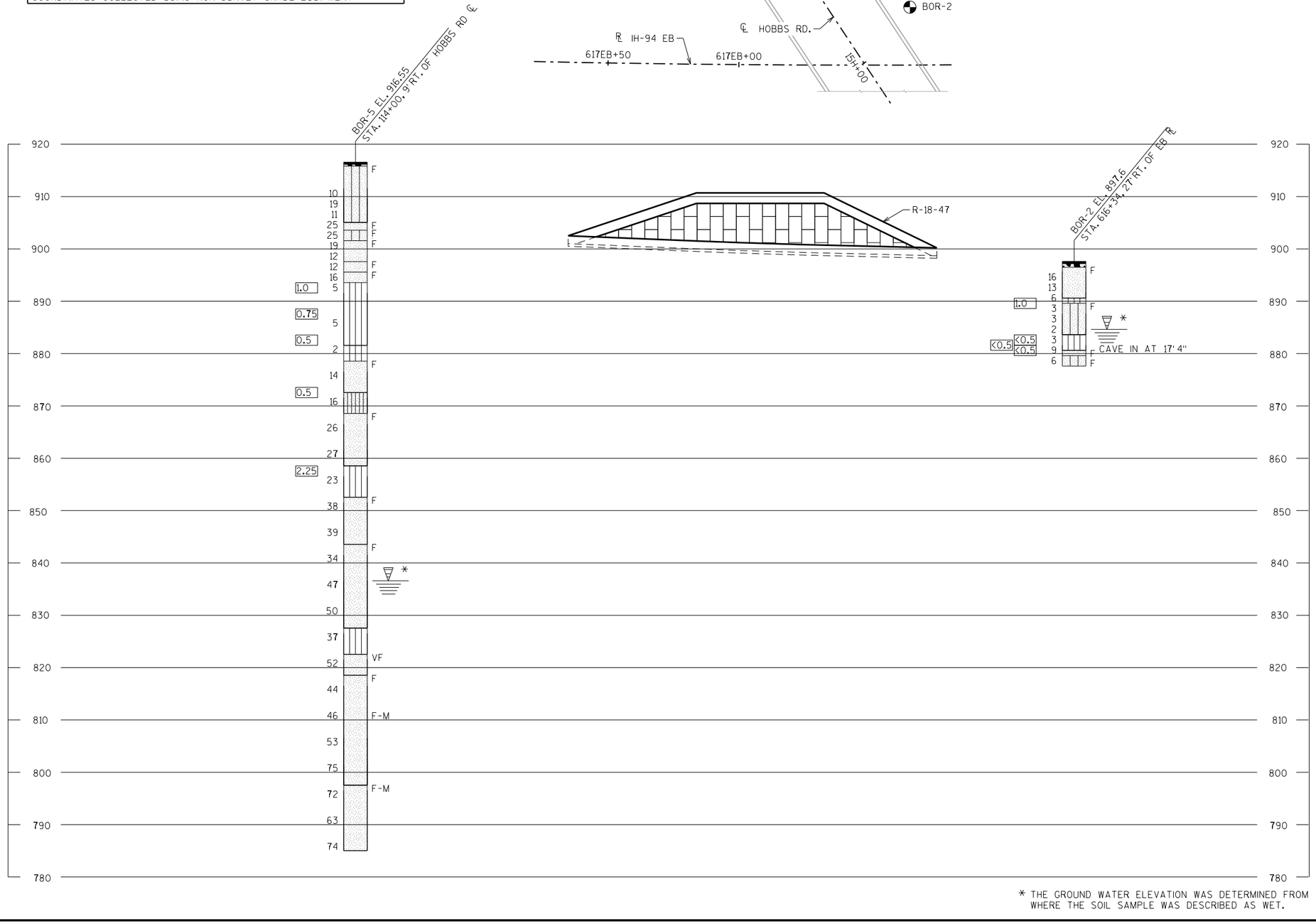
SCALE = 2.00

8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
2	11/10/2016	260996.410	364049.162
5	11/15/2016	260914.553	364067.552
BORINGS COMPLETED BY: WISDOT			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) EAU CLAIRE COUNTY			
COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT			





* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

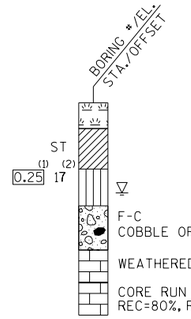
STATE PROJECT NUMBER

1021-03-74

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-18-47

DRAWN BY TLP/DFD | PLANS CK'D. DLM

SUBSURFACE EXPLORATION

SHEET 4

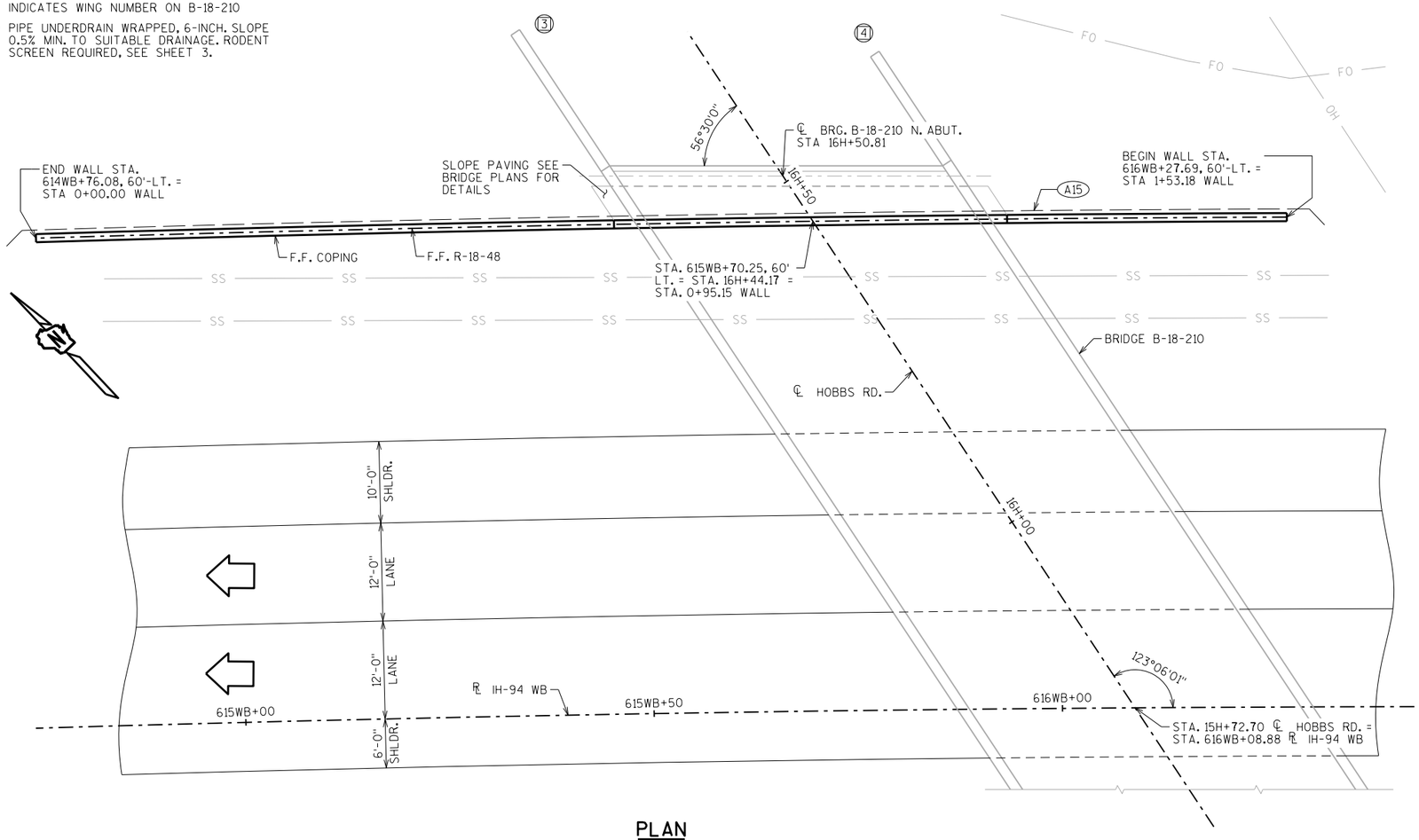
SCALE = 20.00

8

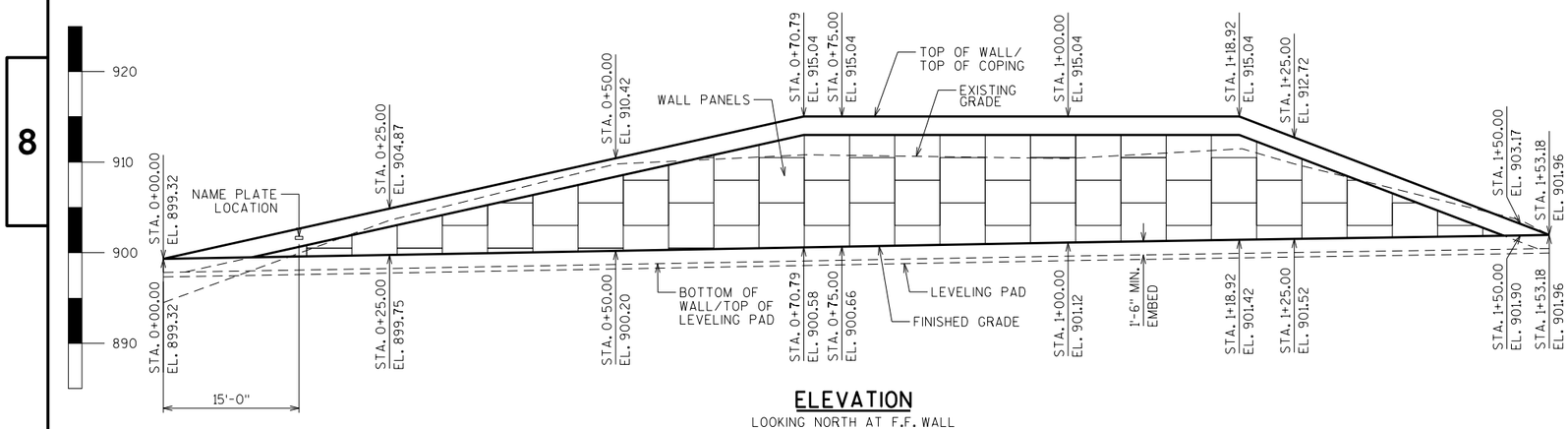
8

(3) INDICATES WING NUMBER ON B-18-210

(A15) PIPE UNDERDRAIN WRAPPED, 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED, SEE SHEET 3.



PLAN



ELEVATION

LOOKING NORTH AT F.F. WALL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP & HOLD 1/8" BELOW THE SURFACE OF CONCRETE).

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL R-18-48.

THE EXISTING GROUND LINE IS THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

THE PLAN QUANTITY FOR THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

COORDINATE THE CONSTRUCTION OF RETAINING WALL R-18-48 WITH THE NORTH ABUTMENT OF BRIDGE B-18-210.

THE REMOVAL OF THE EXISTING STRUCTURE IS INCLUDED IN A LUMP SUM PAY ITEM FOR BRIDGE B-18-210.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MSE LRFD/QMP

MATERIAL PROPERTIES

CONCRETE MASONRY (COPING) ——— f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 P.S.I.

LIST OF DRAWINGS

CURVE DATA

IH-94 WB

P.I. = 605WB+90.87
△ = 27°29'16"
D = 0°59'23"
T = 1416.06'
L = 2777.60'
R = 5789.65'
S.E. = 3.30%
P.C. = 591WB+74.81
P.T. = 619WB+52.41

STRUCTURE DESIGN CONTACTS:

LAURA SHADEWALD (608) 267-9592
DANIELLE DE TENNIS (608) 266-8689

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STATE PROJECT NUMBER

1021-03-74

STRUCTURE R-18-48

MSE WALL ALONG N. ABUT B-18-210

COUNTY EAU CLAIRE | TOWN/~~CITY/VILLAGE~~ WASHINGTON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DFD	DESIGNED CK'D.	DLM	DRAWN BY	DFD	PLANS CK'D.	DLM

GENERAL PLAN

SHEET 1 OF 4

I.D. 1021-03-04D DATE: MAY 2017

SCALE = 8.00

STATE PROJECT NUMBER

1021-03-74

SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL WITHIN THE WALL IN THE REINFORCING ZONE	30	0	120
FILL, GRANULAR BEHIND AND BELOW THE THE REINFORCING ZONE	31	0	120
B-4 - STA. XX+XX.XX - XX' LT/RT OF XXX			
SAND, BROWN, FINE TO MEDIUM EL. 899.1 TO EL 893.1	33	0	125
SILT, BROWN EL. 893.1 TO EL 878.1	29	0	110
SILT, BROWN, SOME FINE SAND EL. 878.1 TO EL 871.6	30	0	115
SAND, BROWN, FINE EL. 871.6 TO EL 851.1	32	0	120
SAND, BROWN, FINE EL. 851.1 TO EL 843.1	33	0	125
SAND, BROWN, FINE EL. 843.1 TO EL 838.1	32	0	120
SAND, GRAY, FINE TO MEDIUM EL. 838.1 TO EL 833.0	33	0	125

WALL EXTERNAL STABILITY EVALUATION

DIMENSIONS		
WALL HEIGHT (FEET)[1]	15.9	15.1
EXPOSED WALL HEIGHT (FEET)	14.4	13.6
MINIMUM LENGTH OF REINFORCEMENT (FEET)	16.8	10.6
LENGTH OF REINFORCEMENT TO HEIGHT RATIO	1.06	0.70
BORING LOCATION USED	B-4	B-4
APPROXIMATE WALL STATION	0+71.1	1+19.3
CAPACITY TO DEMAND RATIO (CDR)[2]		
SLIDING (CDR > 1.0)	1.0	1.2
ECCENTRICITY (CDR > 1.0)	1.8	1.3
GLOBAL STABILITY (CDR > 1.0)	1.6	N/A[3]
BEARING RESISTANCE (CDR > 1.0)	1.1	1.1
FACTORED BEARING RESISTANCE (PSF)	5,500	4,500

NOTES:
1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 1.5 FEET.
2. CDR REQUIREMENTS AND LOAD AND RESISTANCE FACTORS ARE PRESENTED IN CHAPTER 14 OF THE BRIDGE MANUAL.
3. NA NOT APPLICABLE. GLOBAL SLOPE STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION.

GEOMETRY TABLE

WALL STATION	℄ IH-94 WB STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
0+00.00	614WB+76.08	60.0' LT.	899.32	899.32	894.49
0+25.00	615WB+00.83	60.0' LT.	904.87	899.75	903.57
0+50.00	615WB+25.57	60.0' LT.	910.42	900.20	909.79
0+70.79	615WB+46.15	60.0' LT.	915.04	900.58	910.81
0+75.00	615WB+50.31	60.0' LT.	915.04	900.66	910.75
1+00.00	615WB+75.06	60.0' LT.	915.04	901.12	910.40
1+18.92	615WB+93.78	60.0' LT.	915.04	901.42	911.47
1+25.00	615WB+99.80	60.0' LT.	912.72	901.52	909.80
1+50.00	616WB+24.54	60.0' LT.	903.17	901.90	903.60
1+53.18	616WB+27.69	60.0' LT.	901.96	901.96	901.96

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	170
SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-18-48	SF	1420
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	1/2" & 3/4"
	NON-BITUMINOUS JOINT SEALER	SIZE	1/2" & 3/4"
	EXPANDED POLYSTYRENE	SIZE	1"

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/GMP".

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLANS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

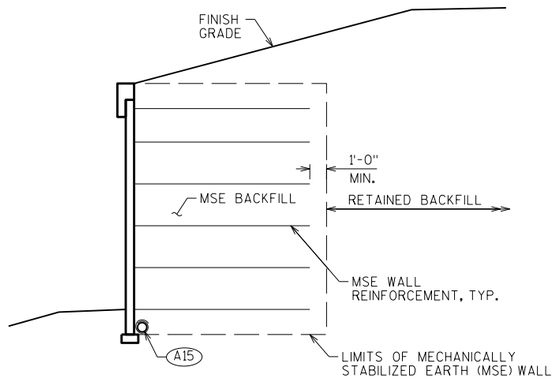
THE RETAINING WALL SHALL BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR THE RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN THE RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE DESIGN OF THE WALL IN FRONT OF THE ABUTMENT SHALL INCLUDE THE HORIZONTAL EARTH LOADS AND 240 PSF LIVE LOAD SURCHARGE ACTING ON THE BACK OF THE ABUTMENT BELOW THE BEAM SEATS.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.



TYPICAL SECTION
THRU MSE RETAINING WALL

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-18-48

DRAWN BY DFD | PLANS CK'D. DLM

QUANTITIES & WALL DATA

SHEET 2

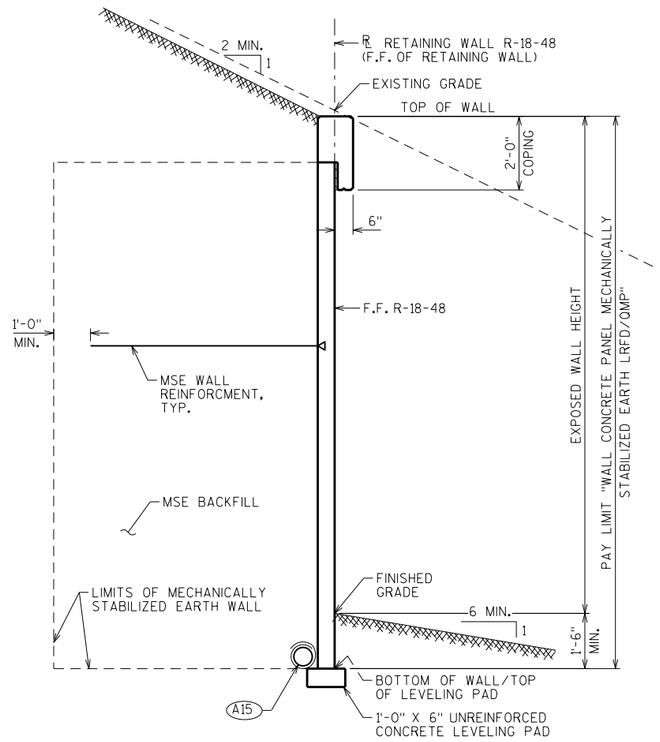
SCALE = 1.00

8

8

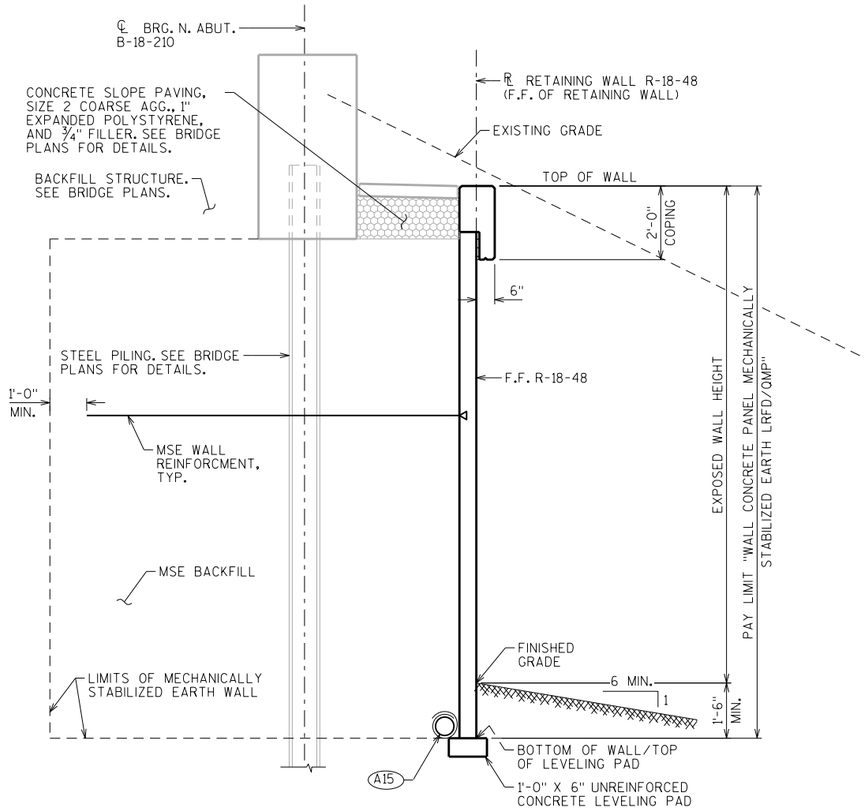
STATE PROJECT NUMBER

1021-03-74



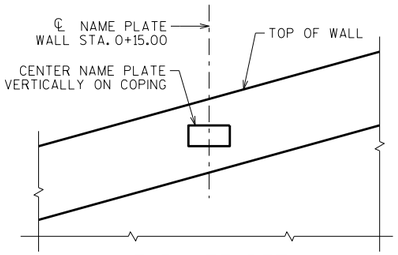
TYPICAL SECTION

LOOKING EAST
STA. 0+00.00 TO 0+70.79 &
STA. 1+18.92 TO 1+35.18

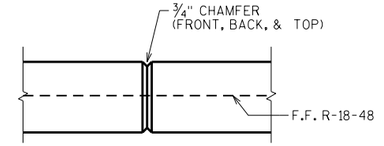


TYPICAL SECTION AT ABUTMENT

LOOKING EAST
0+70.79 TO 1+18.92

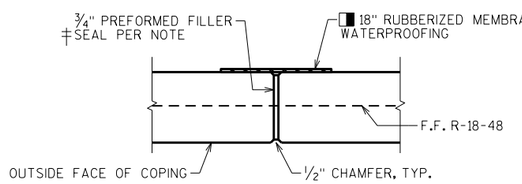


NAME PLATE DETAIL



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'

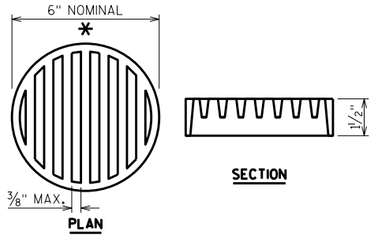


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLE ⅛" BELOW SURFACE OF CONC.)

▮ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.

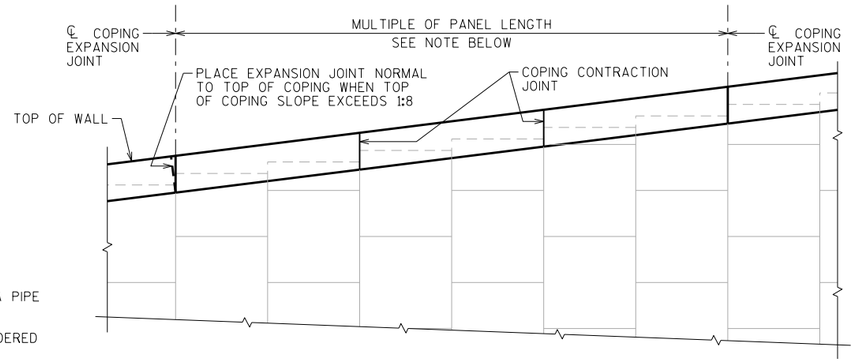


RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

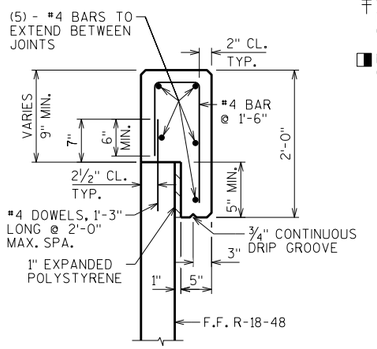
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



CAST-IN-PLACE COPING PARTIAL ELEVATION

LOOKING AT F.F. WALL

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.



CAST-IN-PLACE CONCRETE COPING DETAIL

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-18-48

DRAWN BY DFD | PLANS CK'D. DLM

WALL DETAILS

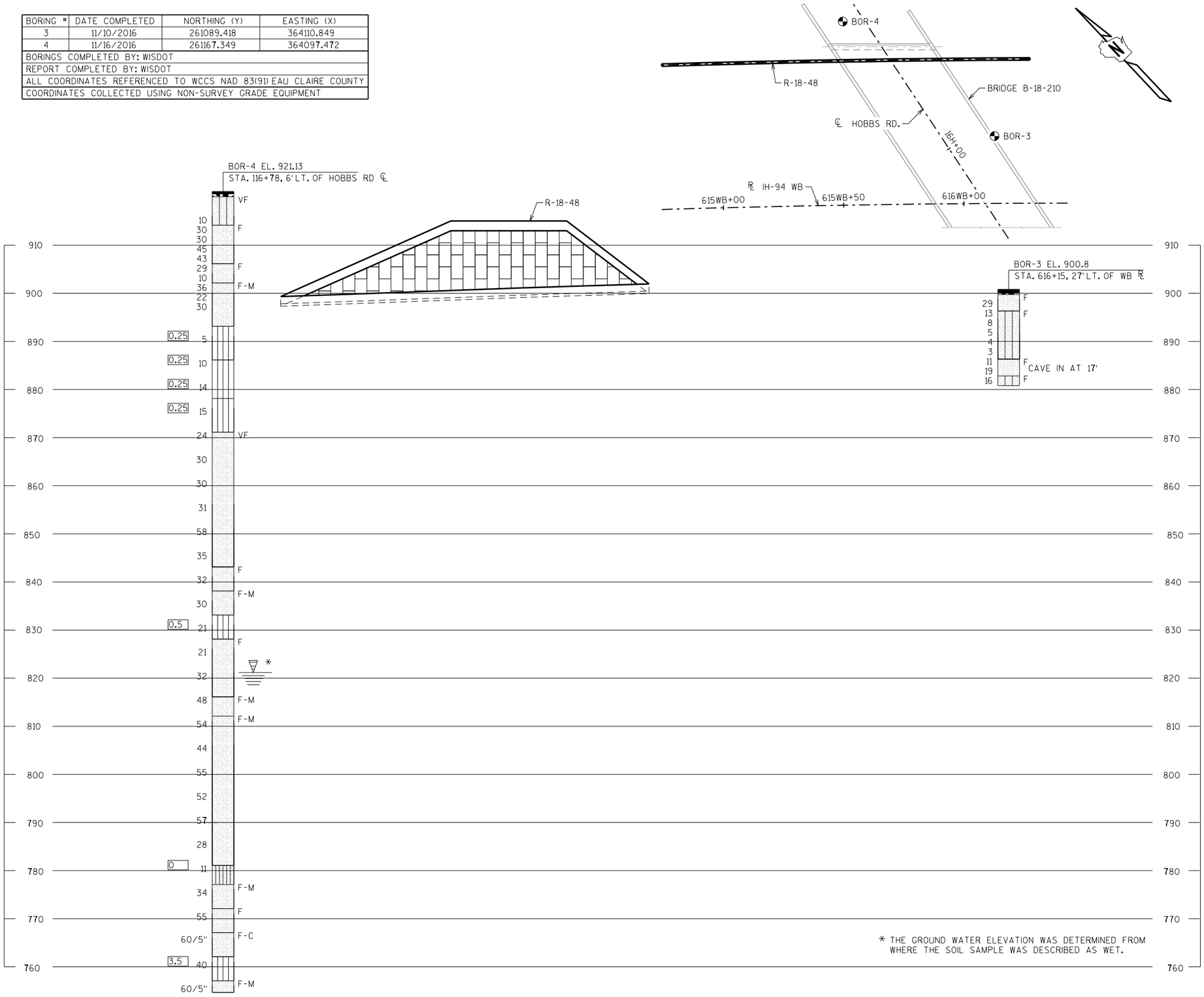
SHEET 3

SCALE = 2.00

8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
3	11/10/2016	261089.418	364110.849
4	11/16/2016	261167.349	364097.472
BORINGS COMPLETED BY: WISDOT			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) EAU CLAIRE COUNTY			
COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT			



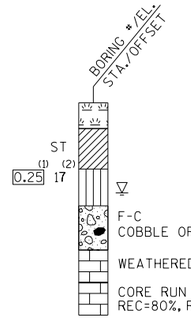
STATE PROJECT NUMBER

1021-03-74

MATERIAL SYMBOLS

ASPHALT, TOPSOIL, PEAT, CONCRETE, FILL, GRAVEL, SAND, CLAY, SILT, BOULDERS OR COBBLES, LIMESTONE, BEDROCK (UNKNOWN), SHALE, SANDSTONE, IGNEOUS/META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

▽ AT TIME OF DRILLING

▼ END OF DRILLING

▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-18-48

DRAWN BY TLP/DFD | PLANS CK'D. DLM

SUBSURFACE EXPLORATION

SHEET 4

SCALE = 20.00

8

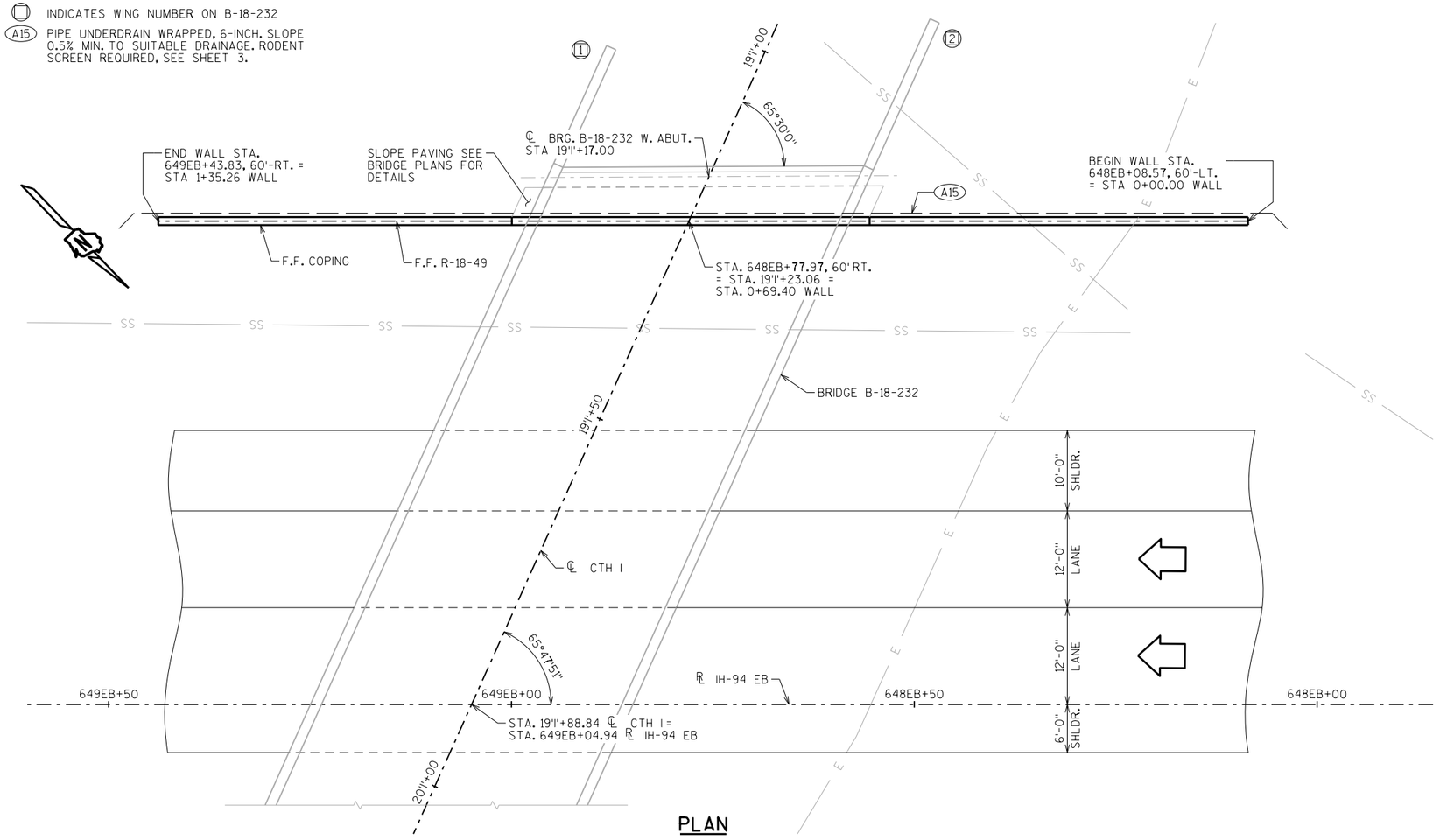
8

STATE PROJECT NUMBER

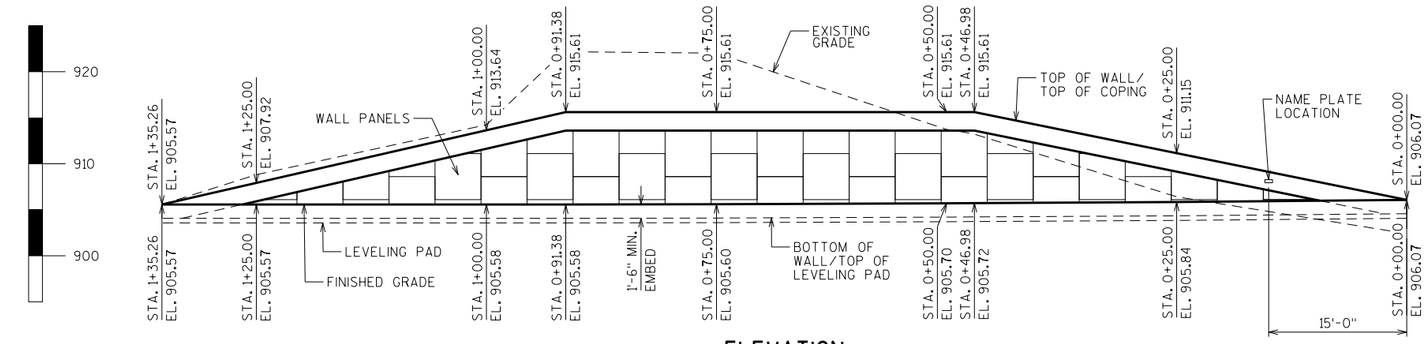
1021-03-74

(1) INDICATES WING NUMBER ON B-18-232

(A15) PIPE UNDERDRAIN WRAPPED, 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED, SEE SHEET 3.



PLAN



ELEVATION

LOOKING SOUTHWEST AT F.F. WALL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP & HOLD 1/8" BELOW THE SURFACE OF CONCRETE).

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL R-18-49.

THE EXISTING GROUND LINE IS THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

THE PLAN QUANTITY FOR THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

COORDINATE THE CONSTRUCTION OF RETAINING WALL R-18-49 WITH THE WEST ABUTMENT OF BRIDGE B-18-232.

THE REMOVAL OF THE EXISTING STRUCTURE IS INCLUDED IN A LUMP SUM PAY ITEM FOR BRIDGE B-18-232.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MSE LRFD/QMP

MATERIAL PROPERTIES

CONCRETE MASONRY (COPING) ——— f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 P.S.I.

LIST OF DRAWINGS

STRUCTURE DESIGN CONTACTS:
LAURA SHADEWALD (608) 267-9592
DANIELLE DE TENNIS (608) 266-8689

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-18-49

MSE WALL ALONG W. ABUT B-18-232

COUNTY EAU CLAIRE | TOWN/~~CITY/VILLAGE~~ WASHINGTON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
DFD	DLM	DFD	DLM

GENERAL PLAN

SHEET 1 OF 4

I.D. 1021-03-04E DATE: MAY 2017

SCALE = 8.00

STATE PROJECT NUMBER

1021-03-74

SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL WITHIN THE WALL IN THE REINFORCING ZONE	30	0	120
FILL, GRANULAR BEHIND AND BELOW THE THE REINFORCING ZONE	31	0	120
B-1 - STA. XX+XX.XX - XX'LT/RT OF XXX			
SAND, TAN, FINE EL. 902.4 TO EL 894.9	28	0	110
SILT, BROWN, FINE TO MEDIUM, SOME SAND EL. 894.9 TO EL 886.9	28	0	110
(INSERT SOIL DESCRIPTION) EL. 886.9 TO EL 883.9	28	0	110
SAND, BROWN, FINE, SOME SILT EL. 883.9 TO EL 853.9	33	0	125
SAND, TAN/BROWN, FINE TO MEDIUM EL. 853.9 TO EL 843.9	33	0	125
SAND, BROWN, FINE TO MEDIUM, LITTLE SILT EL. 843.9 TO EL 822.9	32	0	120
SILT, BROWN/GRAY, LITTLE SAND EL. 822.9 TO EL 819.9	30	0	120
SAND, GRAY, FINE TO MEDIUM EL. 819.9 TO EL 814.9	33	0	125
SAND, GRAY, FINE TO MEDIUM, TRACE SILT EL. 814.9 TO EL 808.9	32	0	120
SAND, GRAY, FINE TO MEDIUM EL. 808.9 TO EL 804.9	33	0	125
SILT, GRAY, SOME SAND EL. 804.9 TO EL 800.9	30	0	120
SAND, BROWN, FINE TO MEDIUM, SOME SILT EL. 800.9 TO EL 794.9	30	0	120

WALL EXTERNAL STABILITY EVALUATION

DIMENSIONS		
WALL HEIGHT (FEET)[1]	11.4	11.5
EXPOSED WALL HEIGHT (FEET)	9.9	10.0
MINIMUM LENGTH OF REINFORCEMENT (FEET)	8.9	8.1
LENGTH OF REINFORCEMENT TO HEIGHT RATIO	0.78	0.70
BORING LOCATION USED	B-1	B-1
APPROXIMATE WALL STATION	0+50.0	1+91.6
CAPACITY TO DEMAND RATIO (CDR)[2]		
SLIDING (CDR > 1.0)	1.0	1.1
ECCENTRICITY (CDR > 1.0)	1.2	1.3
GLOBAL STABILITY (CDR > 1.0)	N/A[3]	2.6
BEARING RESISTANCE (CDR > 1.0)	1.9	1.6
FACTORED BEARING RESISTANCE (PSF)	6,500	5,000

NOTES:
1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 1.5 FEET.
2. CDR REQUIREMENTS AND LOAD AND RESISTANCE FACTORS ARE PRESENTED IN CHAPTER 14 OF THE BRIDGE MANUAL.
3. NA NOT APPLICABLE. GLOBAL SLOPE STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION.

GEOMETRY TABLE

WALL STATION	℄ IH-94 EB STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
0+00.00	648EB+08.57	60.0' RT.	906.07	906.07	902.41
0+25.00	648EB+33.57	60.0' RT.	911.15	905.84	906.41
0+46.98	648EB+55.55	60.0' RT.	915.61	905.72	913.28
0+50.00	648EB+58.57	60.0' RT.	915.61	905.70	913.73
0+75.00	648EB+83.57	60.0' RT.	915.61	905.60	922.02
0+91.38	648EB+99.95	60.0' RT.	915.61	905.58	922.17
1+00.00	649EB+08.57	60.0' RT.	913.64	905.57	914.23
1+25.00	649EB+33.57	60.0' RT.	907.92	905.57	908.81
1+35.26	649EB+43.83	60.0' RT.	905.57	905.57	905.57

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	150
SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-18-49	SF	900
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	½" & ¾"
	NON-BITUMINOUS JOINT SEALER	SIZE	½" & ¾"
	EXPANDED POLYSTYRENE	SIZE	1"

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP".

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLANS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

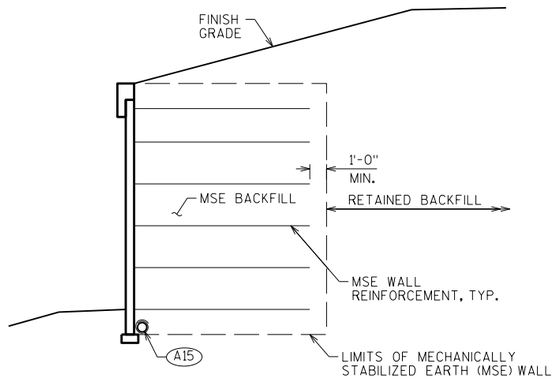
THE RETAINING WALL SHALL BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR THE RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN THE RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE DESIGN OF THE WALL IN FRONT OF THE ABUTMENT SHALL INCLUDE THE HORIZONTAL EARTH LOADS AND 240 PSF LIVE LOAD SURCHARGE ACTING ON THE BACK OF THE ABUTMENT BELOW THE BEAM SEATS.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.



TYPICAL SECTION
THRU MSE RETAINING WALL

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-18-49

DRAWN BY DFD | PLANS CK'D. DLM

QUANTITIES & WALL DATA

SHEET 2

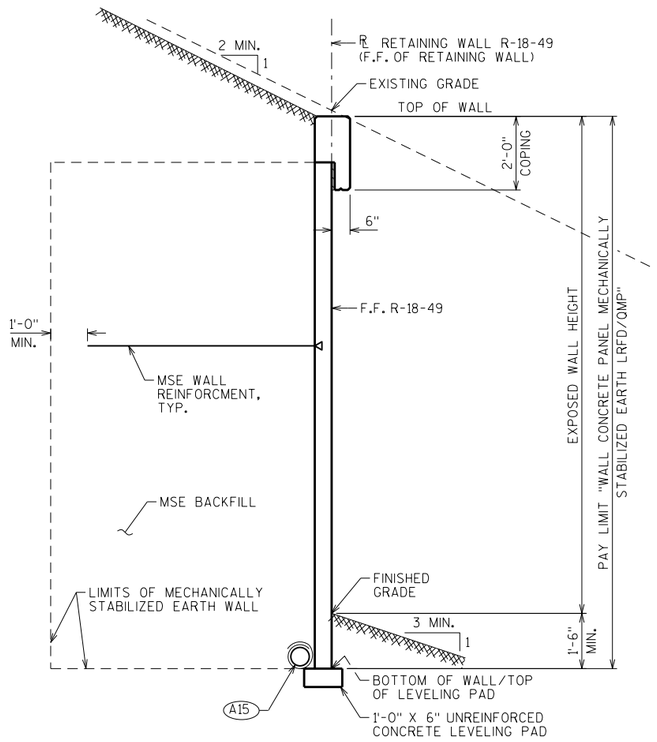
SCALE = 1.00

8

8

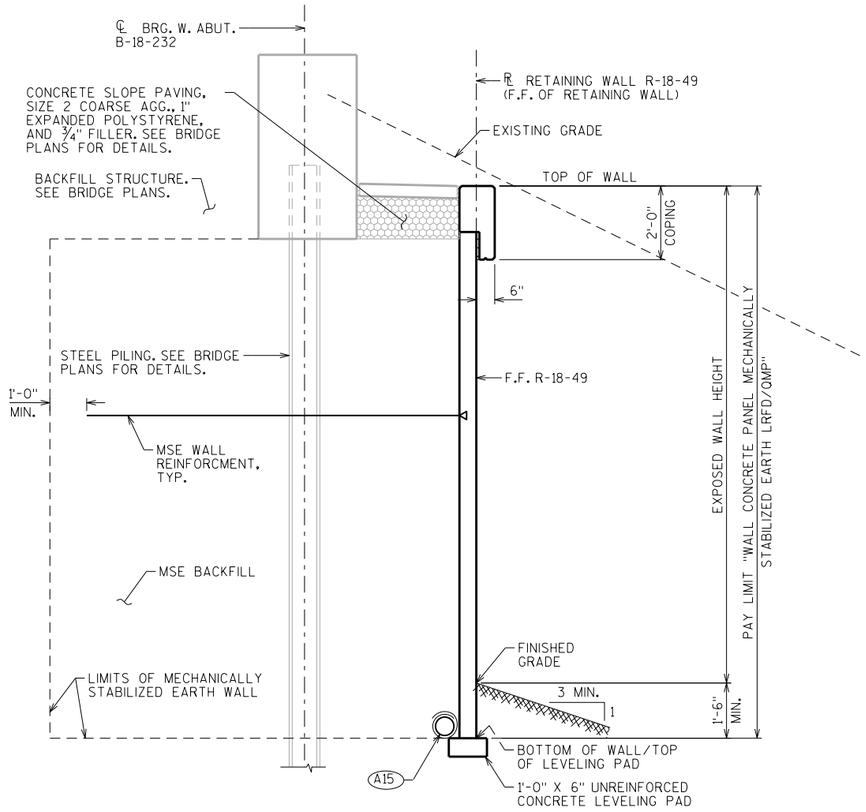
STATE PROJECT NUMBER

1021-03-74



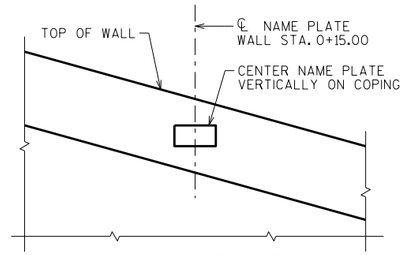
TYPICAL SECTION

LOOKING NORTHEAST
STA. 0+00.00 TO 0+46.98 &
STA. 0+91.38 TO 1+35.26

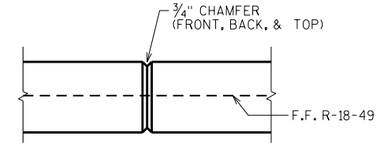


TYPICAL SECTION AT ABUTMENT

LOOKING NORTHEAST
STA. 0+46.98 TO 0+91.38

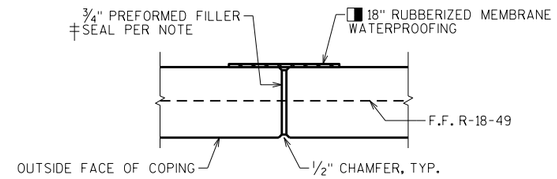


NAME PLATE DETAIL



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'

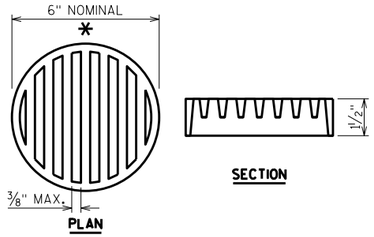


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

‡SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLE ⅛" BELOW SURFACE OF CONC.)

MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.

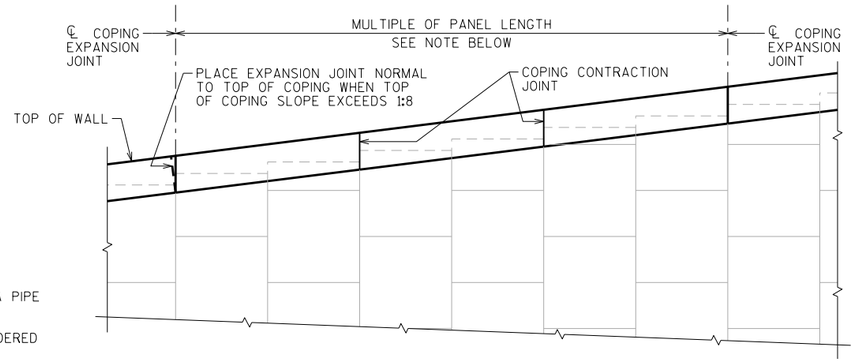


RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

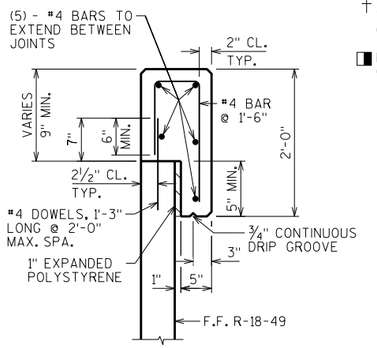
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



CAST-IN-PLACE COPING PARTIAL ELEVATION

LOOKING AT F.F. WALL

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.



CAST-IN-PLACE CONCRETE COPING DETAIL

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-18-49

DRAWN BY DFD | PLANS CK'D. DLM

WALL DETAILS

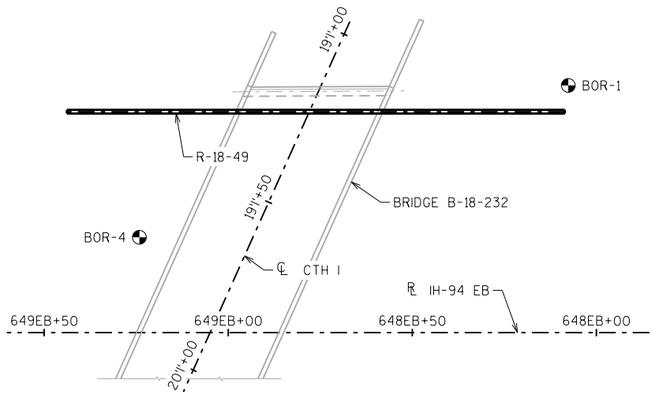
SHEET 3

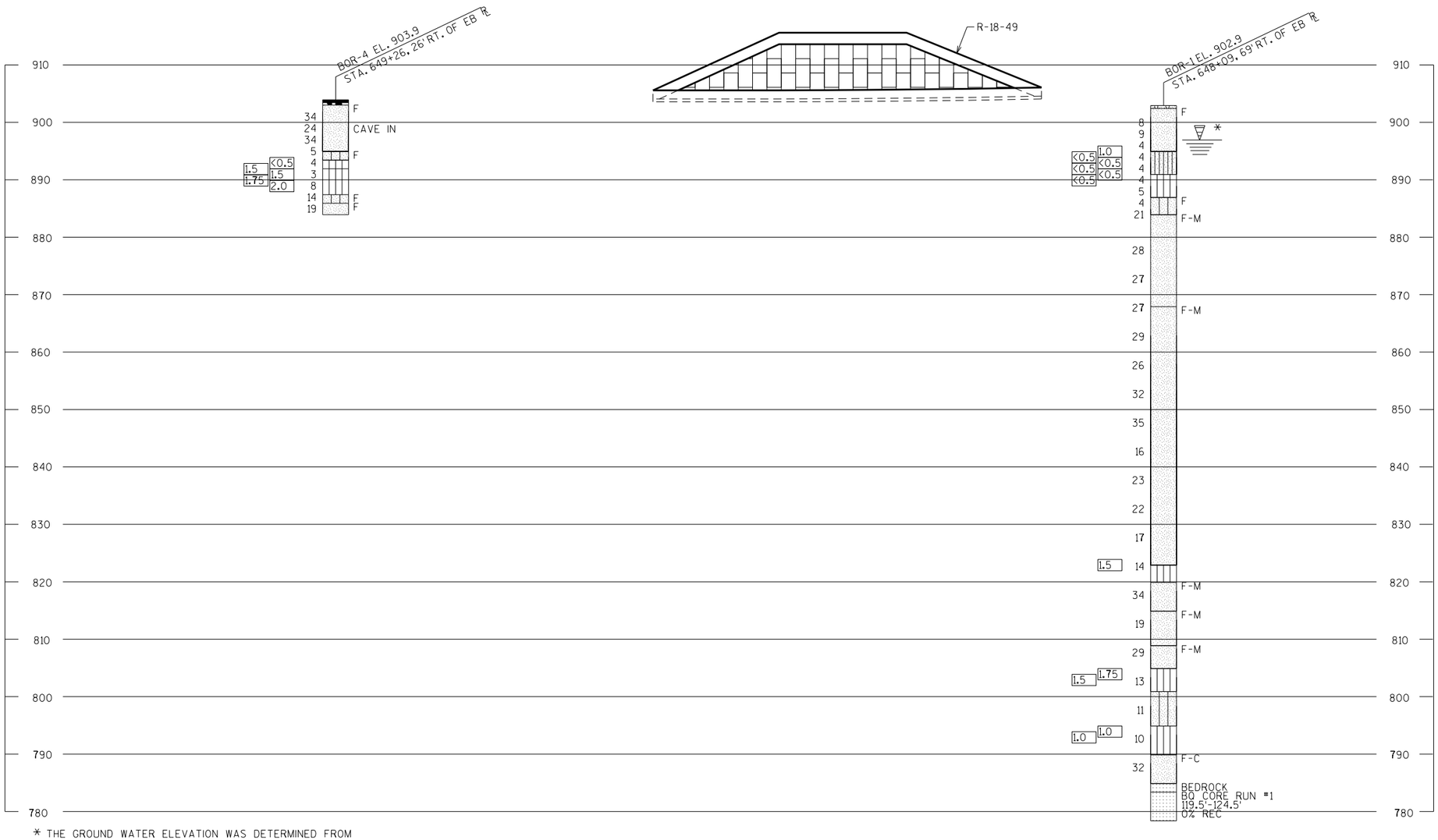
SCALE = 2.00

8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	11/02/2016	258681.464	366217.572
4	11/10/2016	258625.889	366327.961
BORINGS COMPLETED BY: WISDOT			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) EAU CLAIRE COUNTY			
COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT			





* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

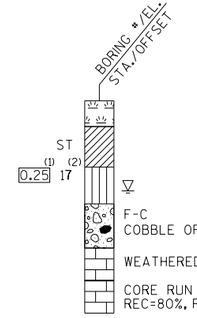
STATE PROJECT NUMBER

1021-03-74

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-18-49

DRAWN BY DFD/TLP | PLANS CK'D. DLM

SUBSURFACE EXPLORATION

SHEET 4

SCALE = 20.00

8

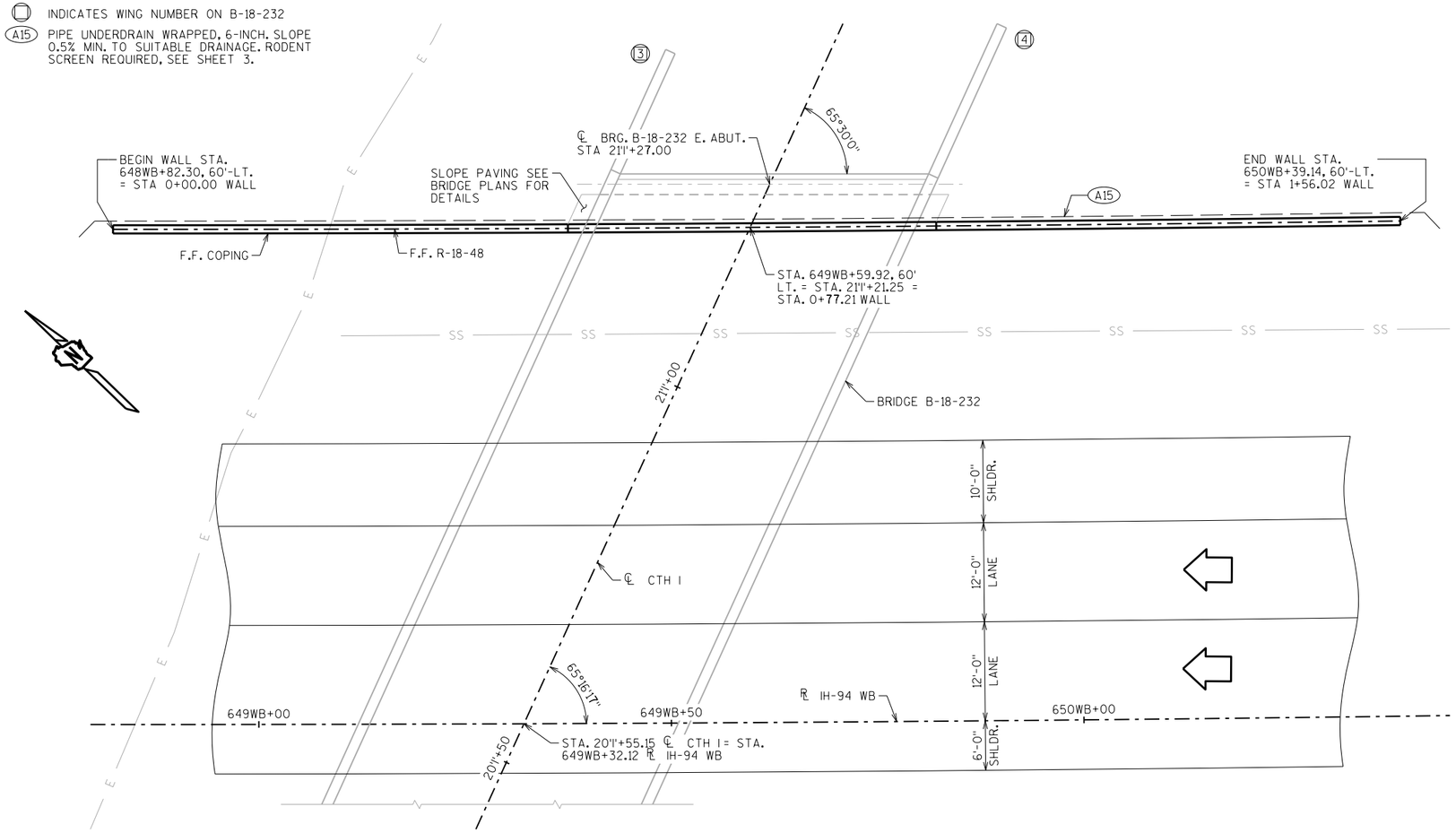
8

STATE PROJECT NUMBER

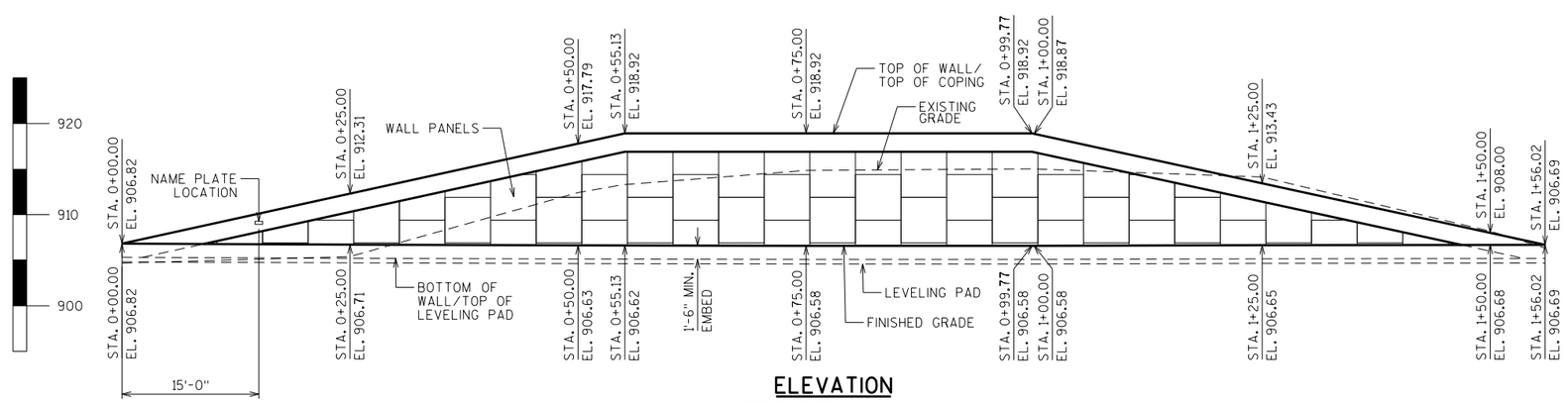
1021-03-74

(3) INDICATES WING NUMBER ON B-18-232

(A15) PIPE UNDERDRAIN WRAPPED, 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED, SEE SHEET 3.



PLAN



ELEVATION

LOOKING NORTH AT F.F. WALL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP & HOLD 1/8" BELOW THE SURFACE OF CONCRETE).

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL R-18-50.

THE EXISTING GROUND LINE IS THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

THE PLAN QUANTITY FOR THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

COORDINATE THE CONSTRUCTION OF RETAINING WALL R-18-50 WITH THE EAST ABUTMENT OF BRIDGE B-18-232.

THE REMOVAL OF THE EXISTING STRUCTURE IS INCLUDED IN A LUMP SUM PAY ITEM FOR BRIDGE B-18-232.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MSE LRFD/QMP

MATERIAL PROPERTIES

CONCRETE MASONRY (COPING) ——— f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 P.S.I.

LIST OF DRAWINGS

CURVE DATA

IH-94 WB

P.I. = 653WB+95.69
△ = 5°41'00"
D = 0°30'00"
T = 568.80'
L = 1136.67'
R = 11459.19'
S.E. = 2.00%
P.C. = 648WB+26.89
P.T. = 659WB+63.56

STRUCTURE DESIGN CONTACTS:

LAURA SHADEWALD (608) 267-9592
DANIELLE DE TENNIS (608) 266-8689

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION — BUREAU OF STRUCTURES

ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER _____ DATE

STRUCTURE R-18-50

MSE WALL ALONG E. ABUT B-18-232

COUNTY: EAU CLAIRE | TOWN/~~CITY/VILLAGE~~: WASHINGTON

DESIGN SPEC.: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DFD	DESIGNED CK'D.	DLM	DRAWN BY	DFD	PLANS CK'D.	DLM

GENERAL PLAN

SHEET 1 OF 4

I.D. 1021-03-04F DATE: MAY 2017

SCALE = 8.00

STATE PROJECT NUMBER

1021-03-74

SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL WITHIN THE WALL IN THE REINFORCING ZONE	30	0	120
FILL BEHIND AND BELOW THE REINFORCING ZONE	31	0	120
B-2 - STA. 649+26.0 - 81' LT OF ℄ CTH I WB			
SAND, TAN, FINE EL. 905.1 TO EL 898.1	32	0	120
SAND, BROWN, FINE, SOME SILT EL. 898.1 TO EL 896.1	29	0	115
SILT, BROWN, SOME SAND EL. 896.1 TO EL 889.1	0	1,000	115
SAND, TAN, FINE, SOME SILT EL. 889.1 TO EL 879.1	32	0	120
SAND, BROWN, FINE, SOME SILT EL. 879.1 TO EL 876.1	32	0	120
SAND, TAN, FINE, LITTLE SILT EL. 876.1 TO EL 859.1	32	0	120
SAND, TAN, FINE, LITTLE SILT EL. 859.1 TO EL 849.1	33	0	125
SAND, GRAY, FINE EL. 849.1 TO EL 836.1	33	0	125
SILT, GRAY, LITTLE SAND EL. 836.1 TO EL 830.1	0	1,250	115

WALL EXTERNAL STABILITY EVALUATION

DIMENSIONS		
WALL HEIGHT (FEET)[1]	12.7	13.8
EXPOSED WALL HEIGHT (FEET)	11.2	12.3
MINIMUM LENGTH OF REINFORCEMENT (FEET)	9.7	16.4
LENGTH OF REINFORCEMENT TO HEIGHT RATIO	0.7	1.2
BORING LOCATION USED	B-2	B-2
APPROXIMATE WALL STATION	0+50.0	0+99.5
CAPACITY TO DEMAND RATIO (CDR)[2]		
SLIDING (CDR > 1.0)	1.3	1.0
ECCENTRICITY (CDR > 1.0)	1.4	2.0
GLOBAL STABILITY (CDR > 1.0)	N/A[3]	1.7
BEARING RESISTANCE (CDR > 1.0)	1.4	1.3
FACTORED BEARING RESISTANCE (PSF)	5,000	6,000

NOTES:
1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 1.5 FEET.
2. CDR REQUIREMENTS AND LOAD AND RESISTANCE FACTORS ARE PRESENTED IN CHAPTER 14 OF THE BRIDGE MANUAL.
3. NA NOT APPLICABLE. GLOBAL SLOPE STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION.

GEOMETRY TABLE

WALL STATION	℄ IH-94 WB STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
0+00.00	648WB+82.30	60.0' LT.	906.82	906.82	904.68
0+25.00	649WB+07.43	60.0' LT.	912.31	906.71	905.40
0+50.00	649WB+32.56	60.0' LT.	917.79	906.63	912.42
0+55.13	649WB+37.72	60.0' LT.	918.92	906.62	913.28
0+75.00	649WB+57.69	60.0' LT.	918.92	906.58	914.85
0+99.77	649WB+82.60	60.0' LT.	918.92	906.58	915.02
1+00.00	649WB+82.82	60.0' LT.	918.87	906.58	915.01
1+25.00	650WB+07.96	60.0' LT.	913.43	906.65	914.13
1+50.00	650WB+33.09	60.0' LT.	908.00	906.68	908.18
1+56.02	650WB+39.14	60.0' LT.	906.69	906.69	906.34

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	170
SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-18-50	SF	1240
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	1/2" & 3/4"
	NON-BITUMINOUS JOINT SEALER	SIZE	1/2" & 3/4"
	EXPANDED POLYSTYRENE	SIZE	1"

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/GMP".

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLANS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

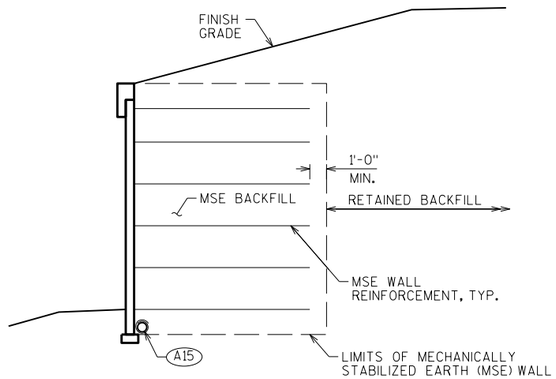
THE RETAINING WALL SHALL BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR THE RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN THE RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE DESIGN OF THE WALL IN FRONT OF THE ABUTMENT SHALL INCLUDE THE HORIZONTAL EARTH LOADS AND 240 PSF LIVE LOAD SURCHARGE ACTING ON THE BACK OF THE ABUTMENT BELOW THE BEAM SEATS.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.



TYPICAL SECTION
THRU MSE RETAINING WALL

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-18-50

DRAWN BY DFD | PLANS CK'D. DLM

QUANTITIES & WALL DATA

SHEET 2

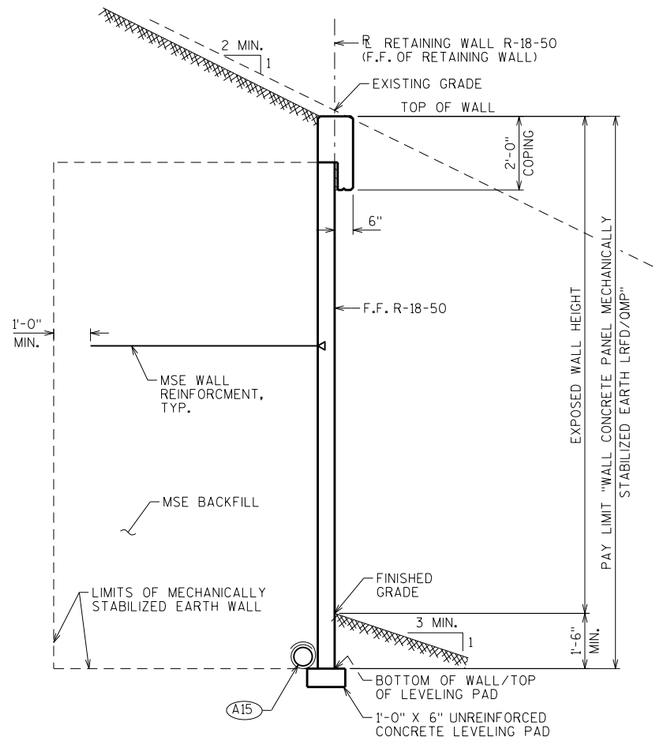
8

8

SCALE = 1.00

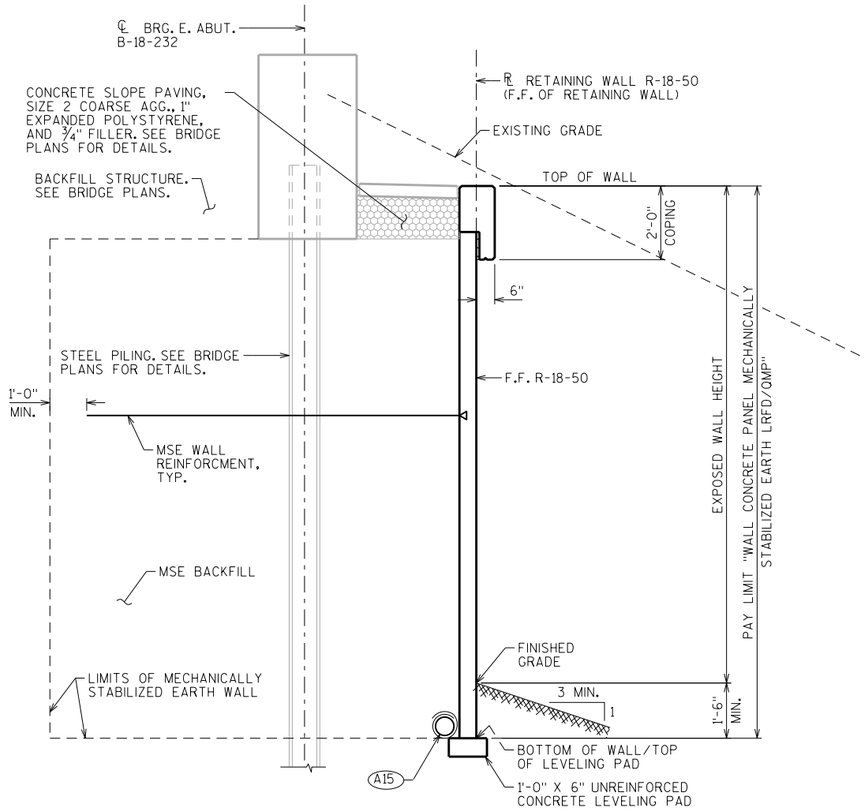
STATE PROJECT NUMBER

1021-03-74



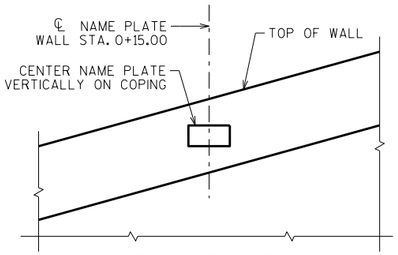
TYPICAL SECTION

LOOKING SOUTHEAST
STA. 0+00.00 TO 0+55.13 &
STA. 0+99.77 TO 1+56.02

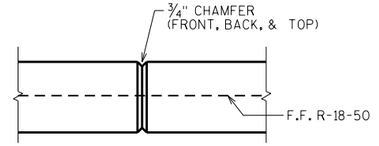


TYPICAL SECTION AT ABUTMENT

LOOKING SOUTHEAST
STA. 0+55.13 TO 0+99.77

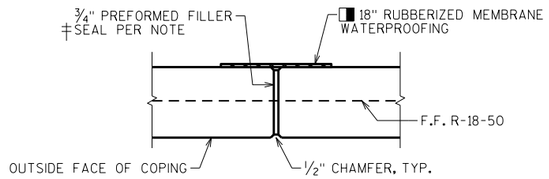


NAME PLATE DETAIL



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'

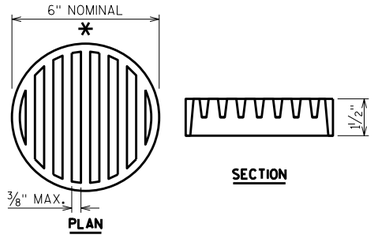


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

‡SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLE ⅛" BELOW SURFACE OF CONC.)

MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.

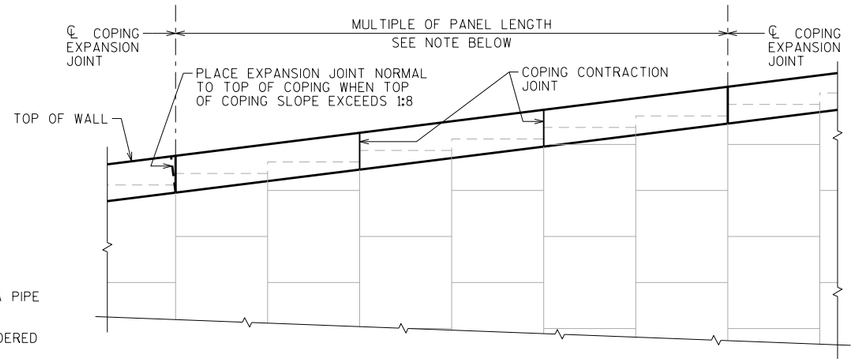


RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

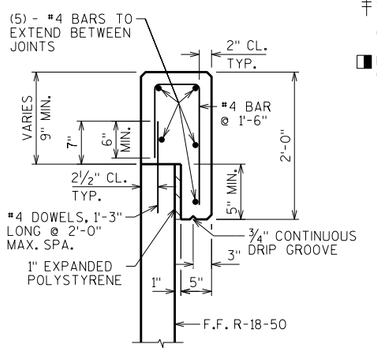
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



CAST-IN-PLACE COPING PARTIAL ELEVATION

LOOKING AT F.F. WALL

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.



CAST-IN-PLACE CONCRETE COPING DETAIL

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-18-50

DRAWN BY DFD | PLANS CK'D. DLM

WALL DETAILS

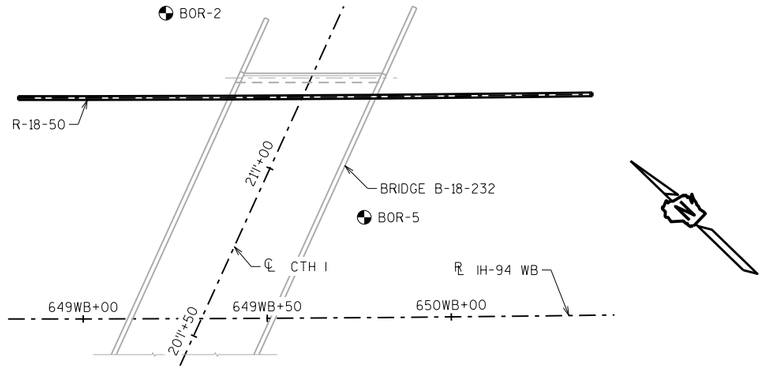
SHEET 3

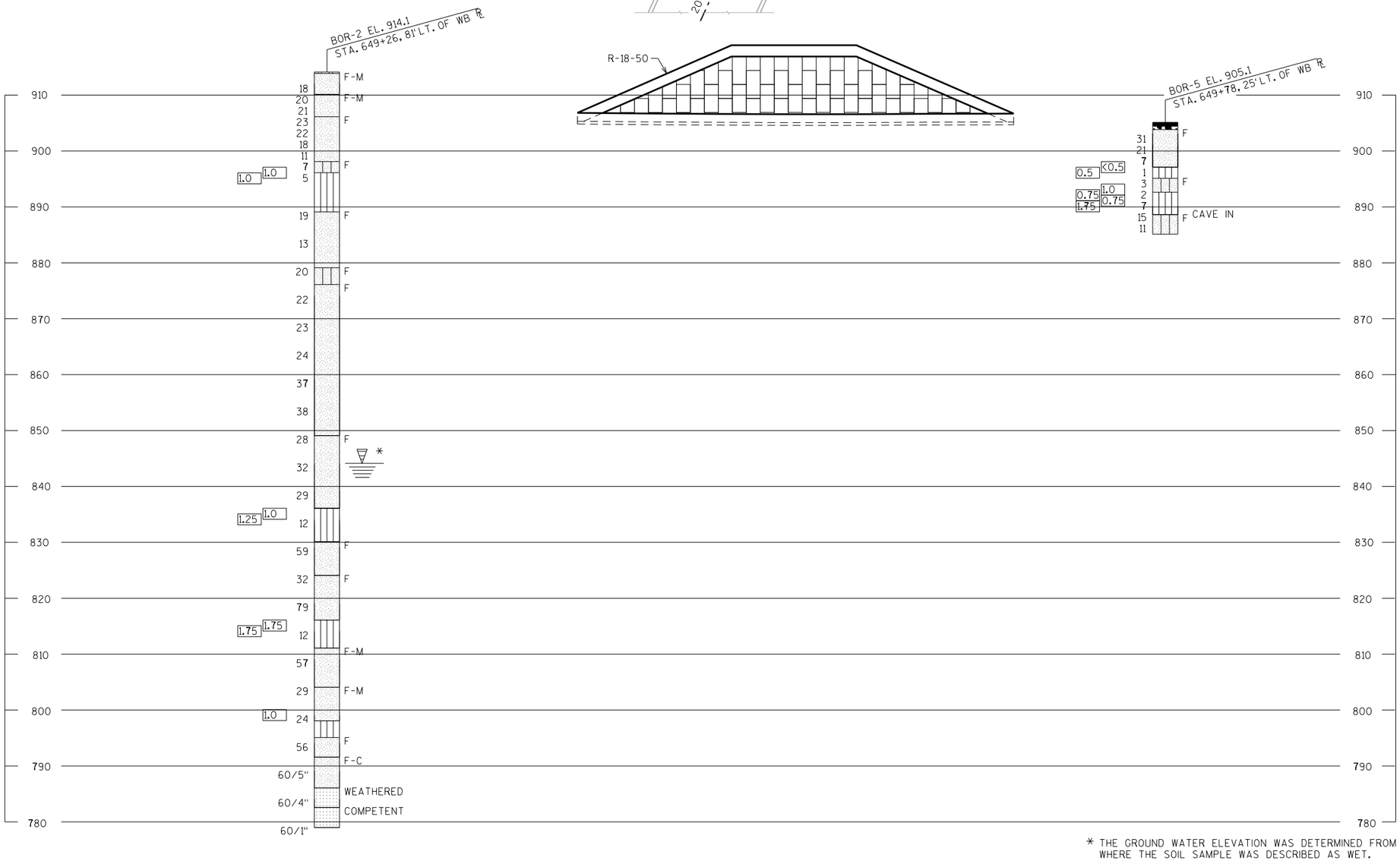
SCALE = 2.00

8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
2	11/03/2016	258744.530	366448.731
5	11/10/2016	258667.256	366446.380
BORINGS COMPLETED BY: WISDOT			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) EAU CLAIRE COUNTY			
COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT			





* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

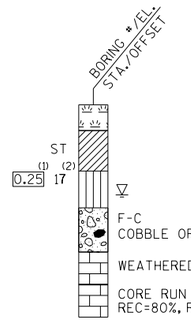
STATE PROJECT NUMBER

1021-03-74

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-18-50

DRAWN BY TLP/DFD | PLANS CK'D. DLM

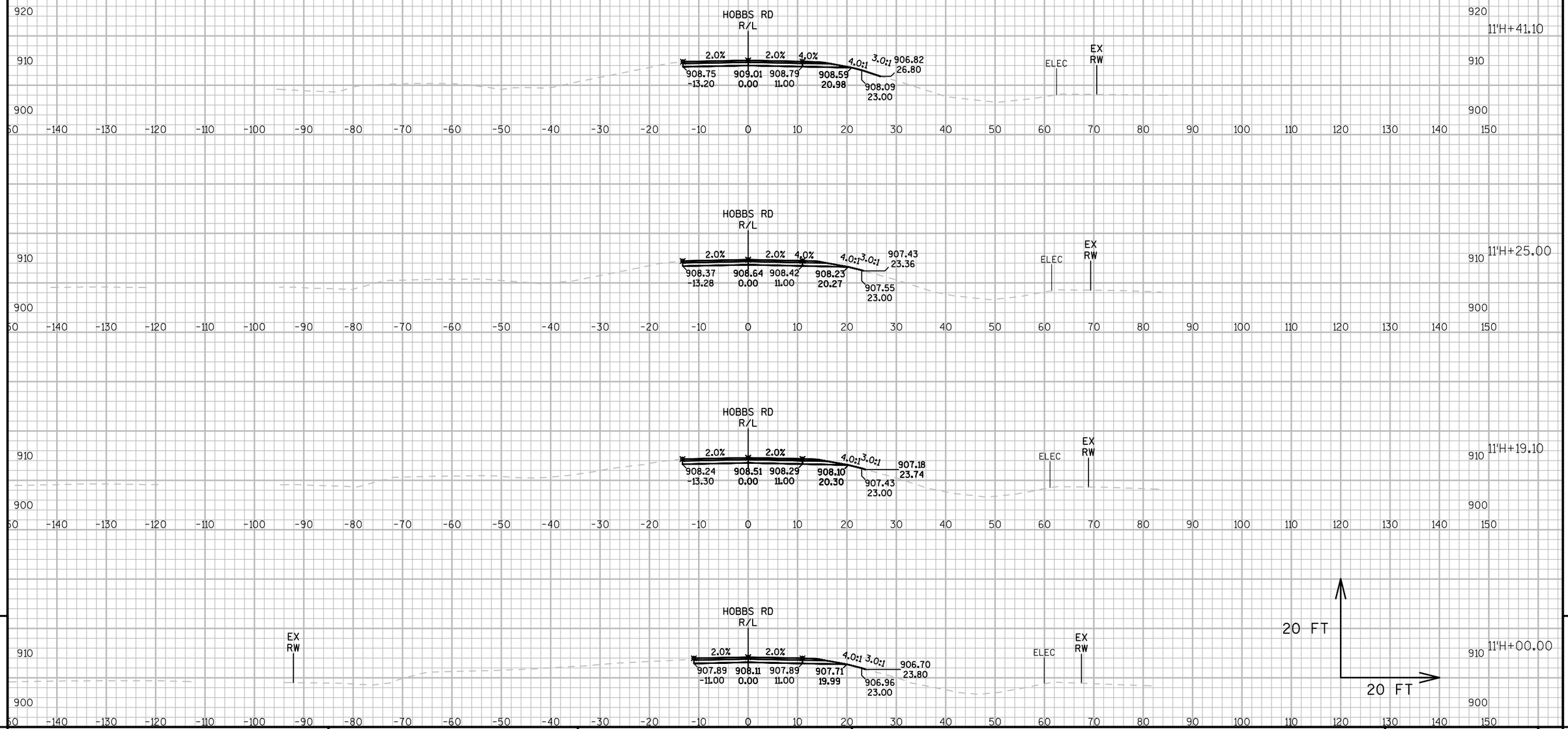
SUBSURFACE EXPLORATION

SHEET 4

SCALE = 20.00

8

8



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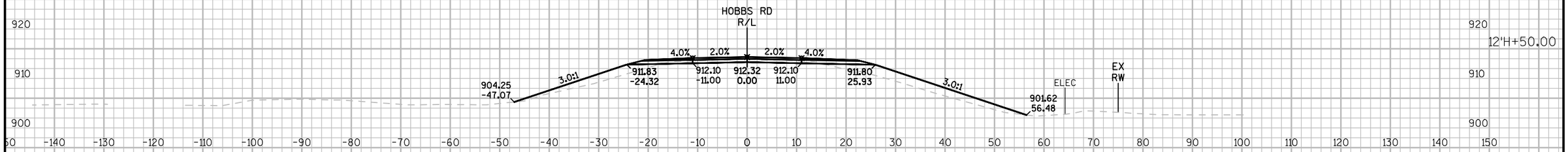
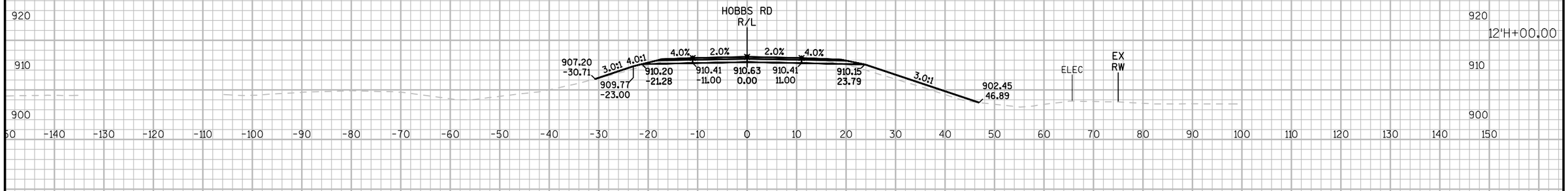
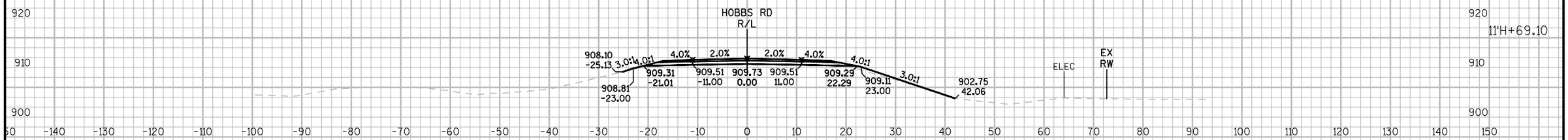
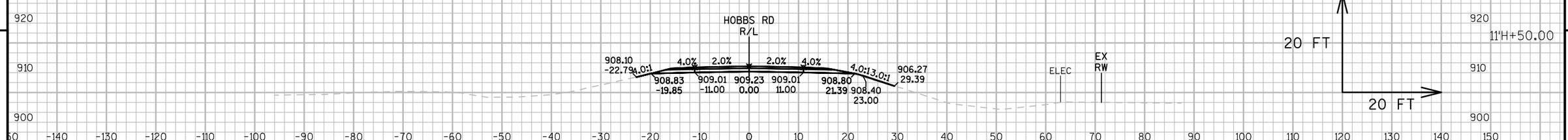
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090101-XSNEW 11.18.2016BACKUPCOPY.DWG
LAYOUT NAME - HOBBS RD - (01)
PLOT DATE : 1/5/2017 10:29 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT









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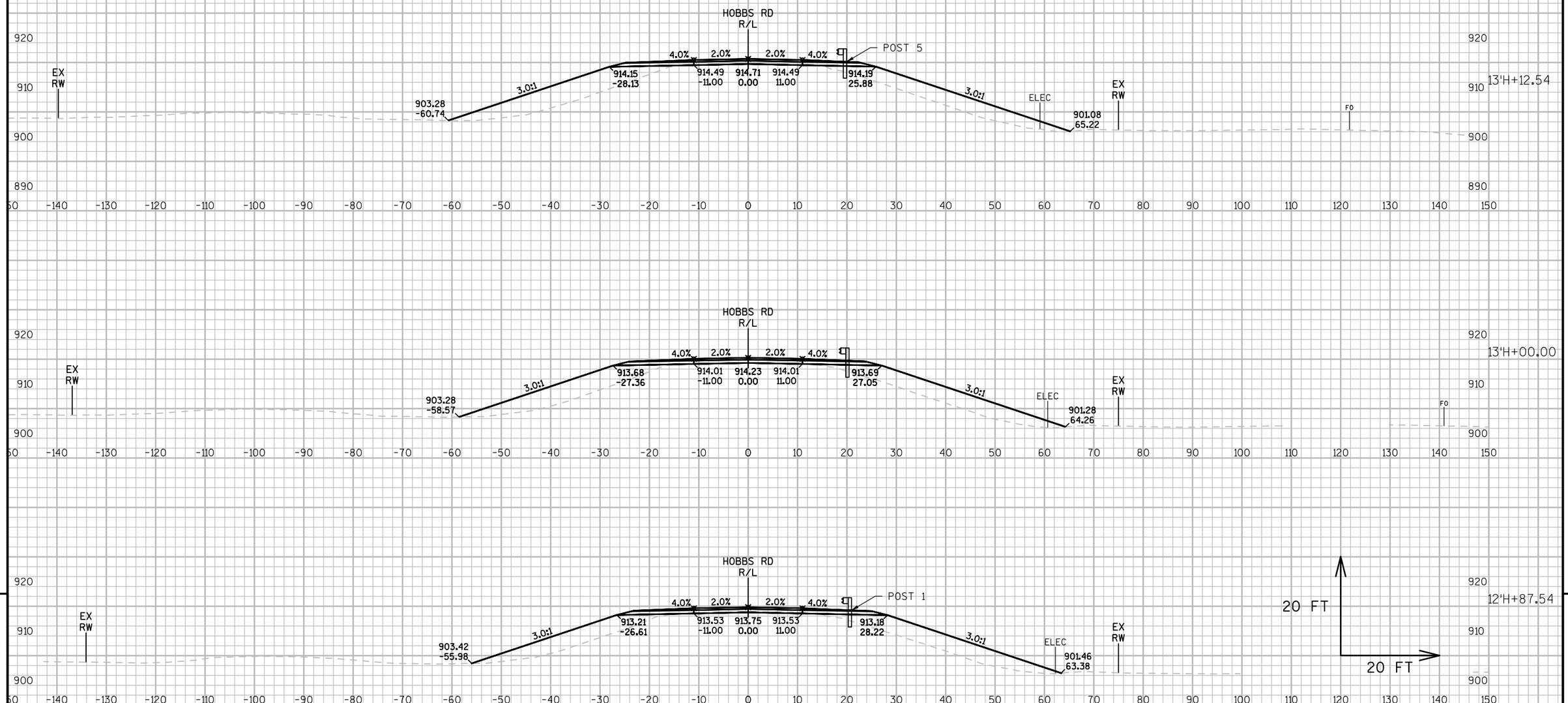
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090101-XSNEW 11.18.2016BACKUPCOPY.DWG
LAYOUT NAME - HOBBS RD - (02)

PLOT DATE : 1/5/2017 10:29 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090101-XSNEW 11.18.2016BACKUPCOPY.DWG
LAYOUT NAME - HOBBS RD - (03)
PLOT DATE : 1/5/2017 10:29 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT

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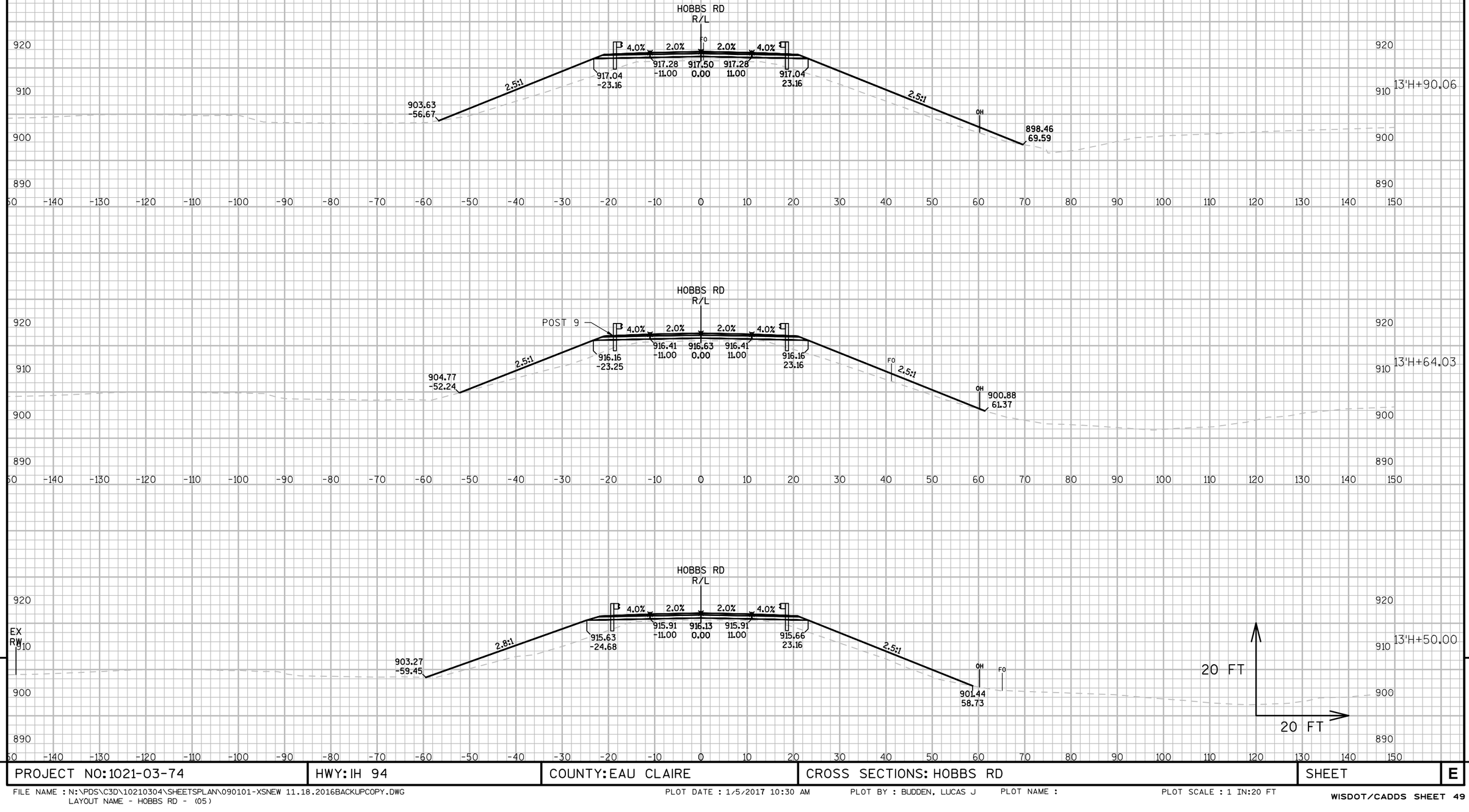
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090101-XSNEW 11.18.2016BACKUPCOPY.DWG
LAYOUT NAME - HOBBS RD - (04)

PLOT DATE : 1/5/2017 10:29 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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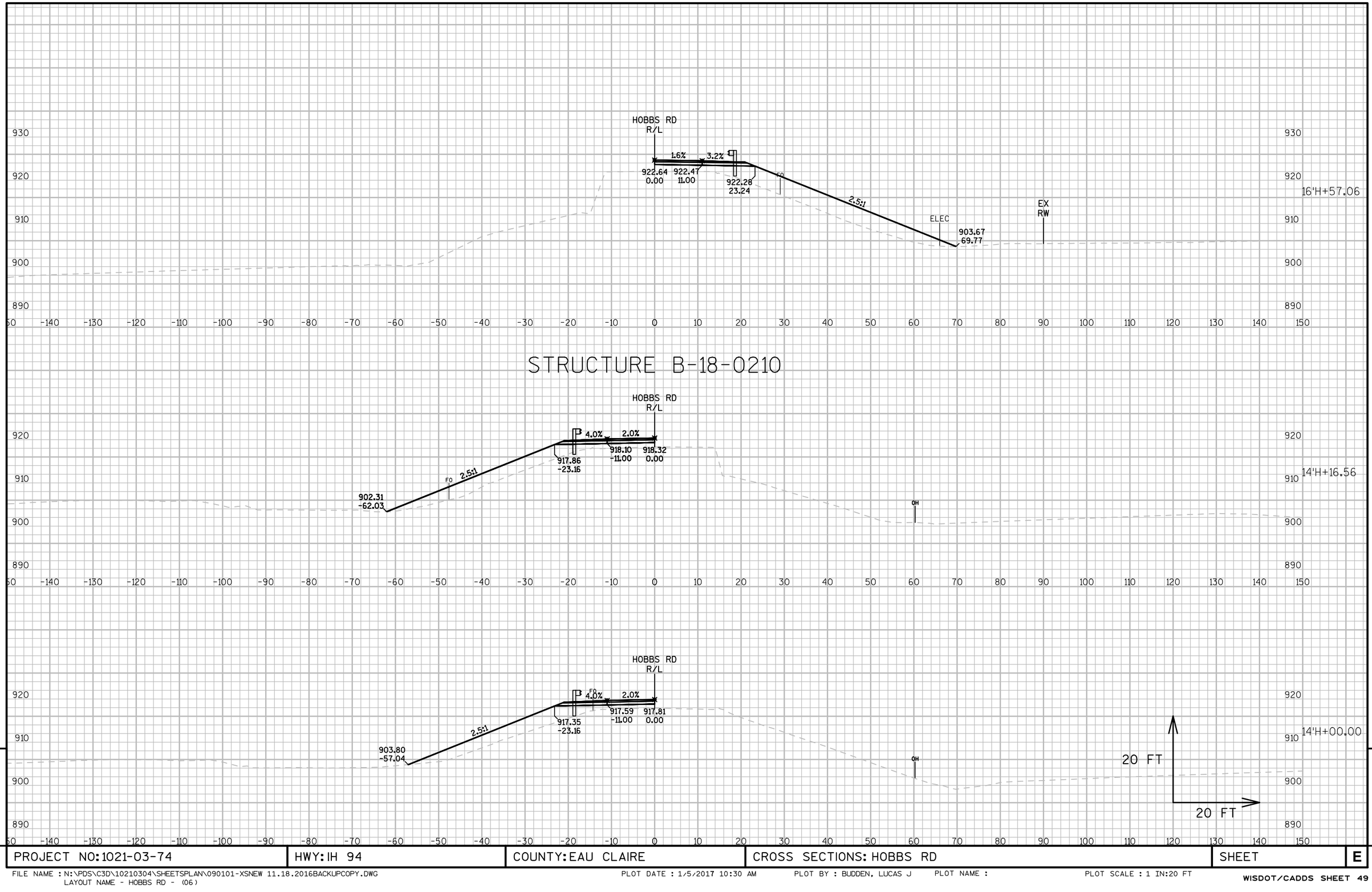
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090101-XSNEW 11.18.2016BACKUPCOPY.DWG
LAYOUT NAME - HOBBS RD - (05)
PLOT DATE : 1/5/2017 10:30 AM
PLOT BY : BUDDEN, LUCAS J
PLOT NAME :
PLOT SCALE : 1 IN:20 FT



STRUCTURE B-18-0210

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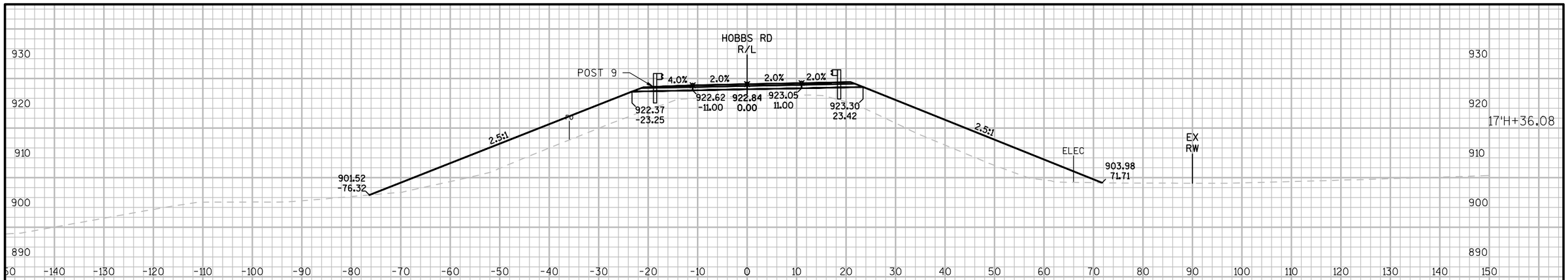
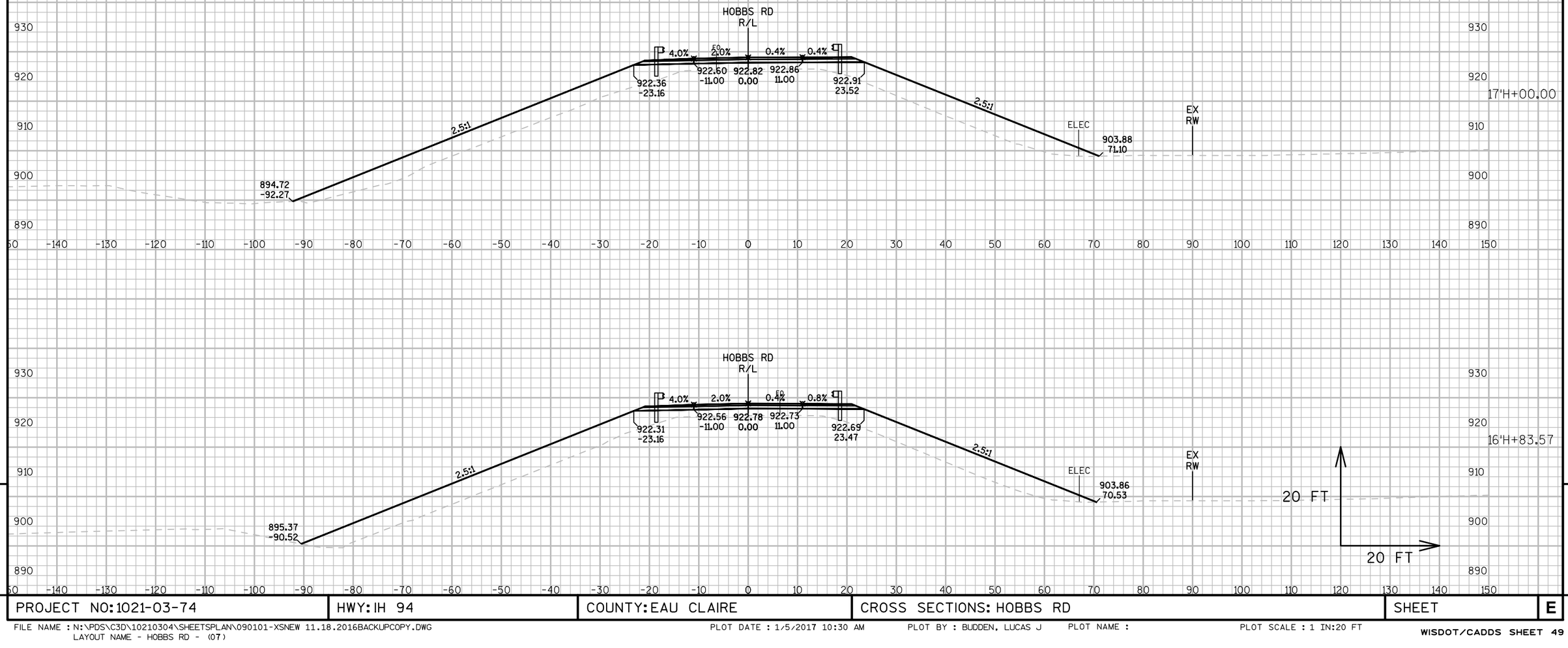
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090101-XSNEW 11.18.2016BACKUPCOPY.DWG
LAYOUT NAME - HOBBS RD - (06)
PLOT DATE : 1/5/2017 10:30 AM
PLOT BY : BUDDEN, LUCAS J
PLOT NAME :
PLOT SCALE : 1 IN:20 FT





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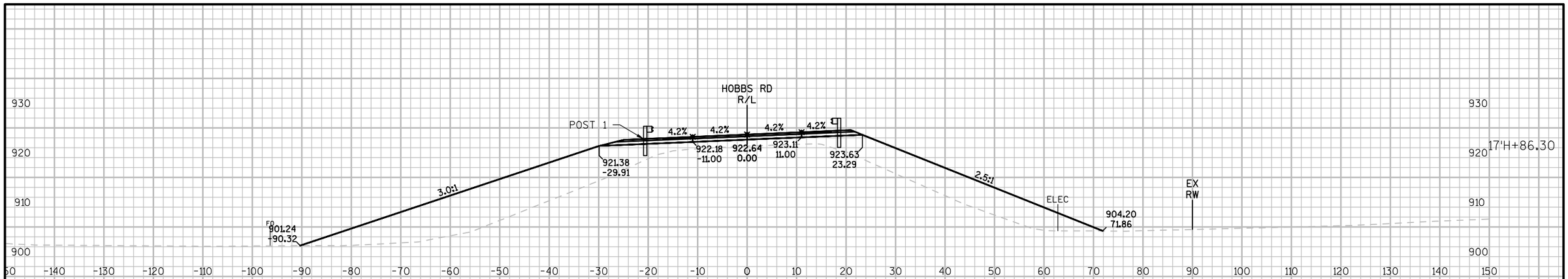
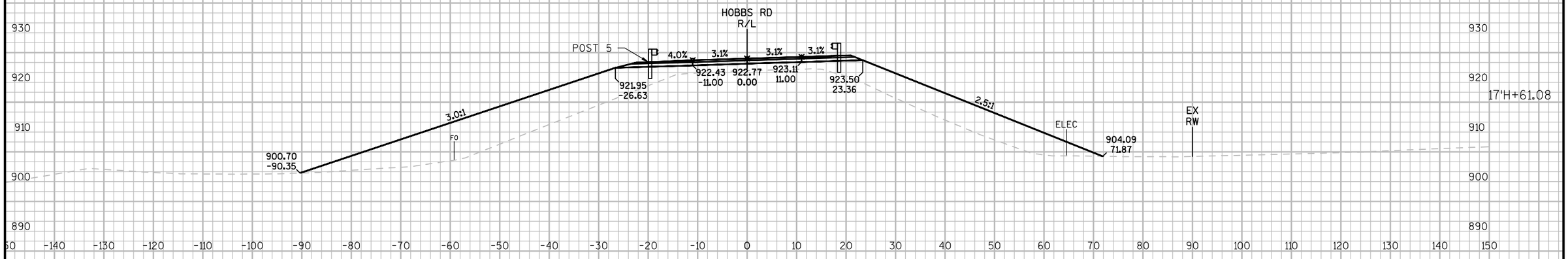
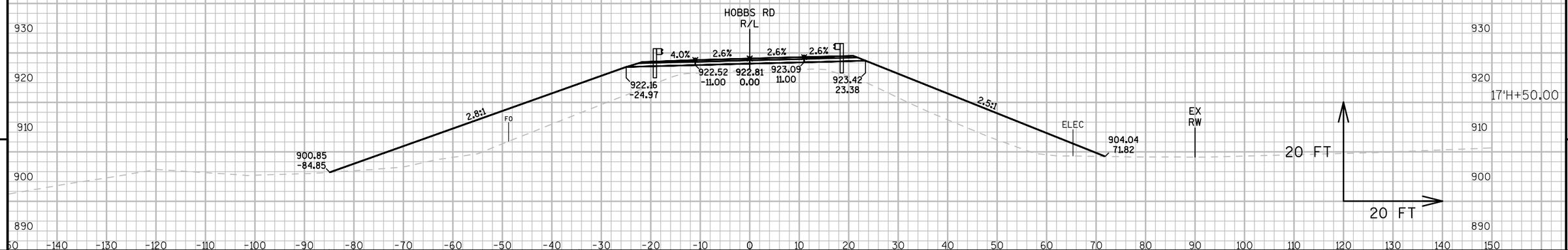
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090101-XSNEW 11.18.2016BACKUPCOPY.DWG
LAYOUT NAME - HOBBS RD - (07)

PLOT DATE : 1/5/2017 10:30 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



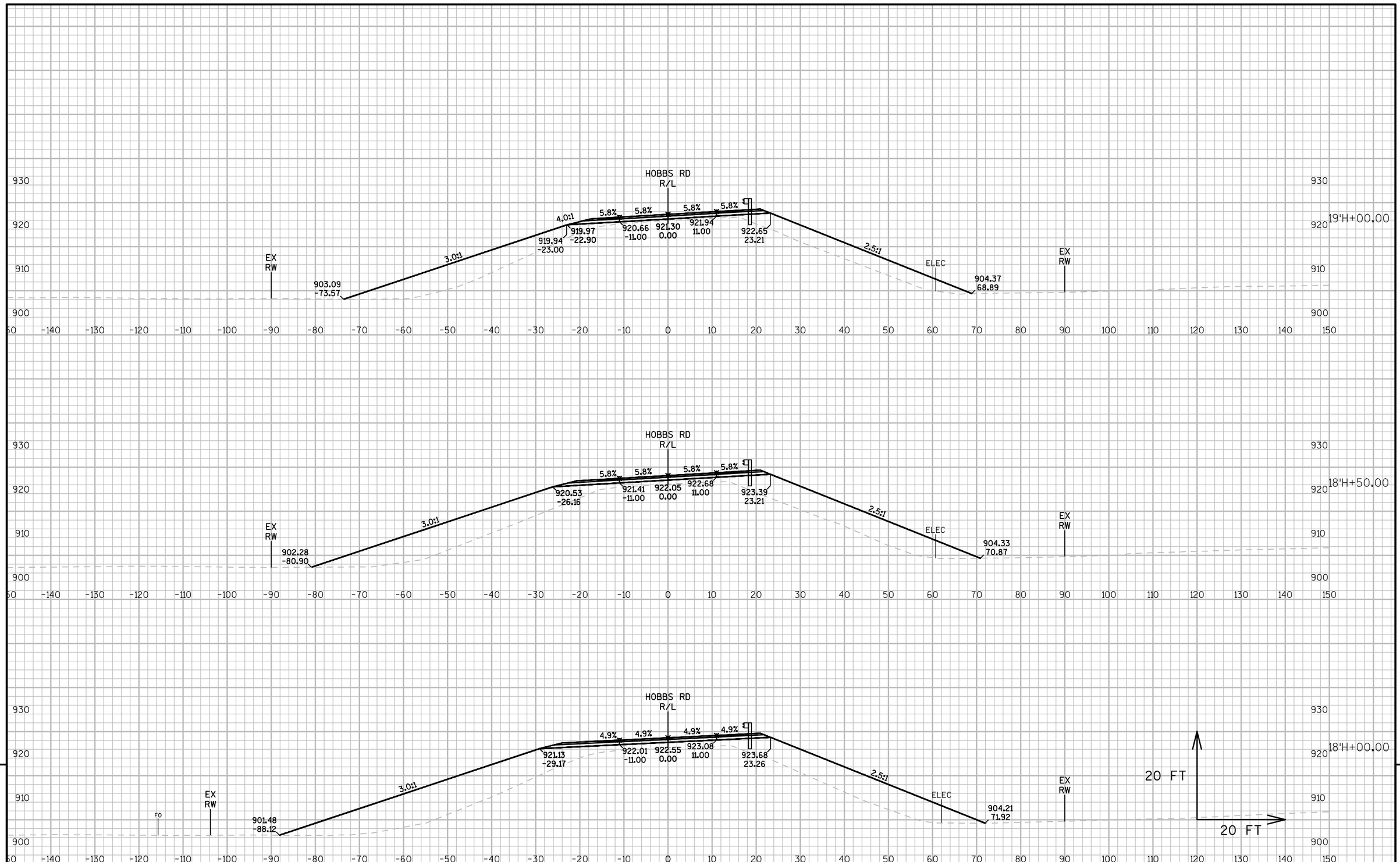




PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090101-XSNEW 11.18.2016BACKUPCOPY.DWG
LAYOUT NAME - HOBBS RD - (08)

PLOT DATE : 1/5/2017 10:31 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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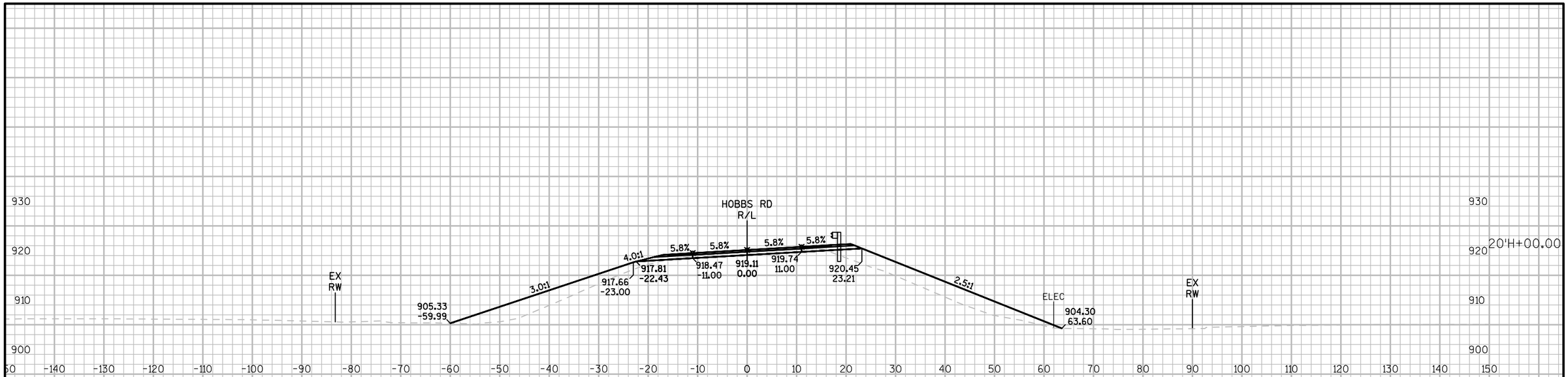
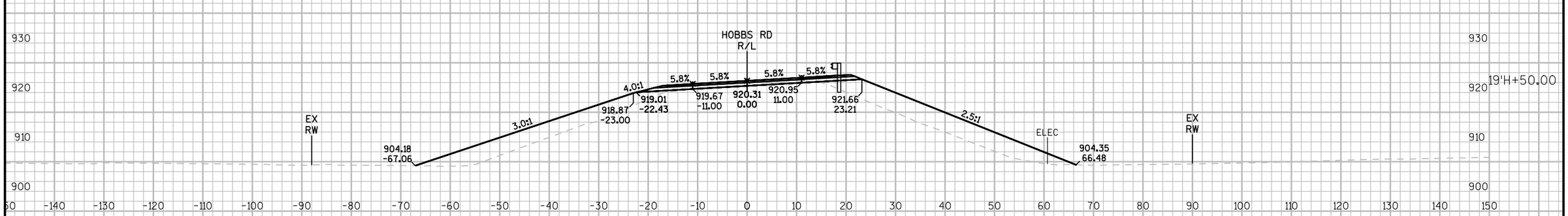
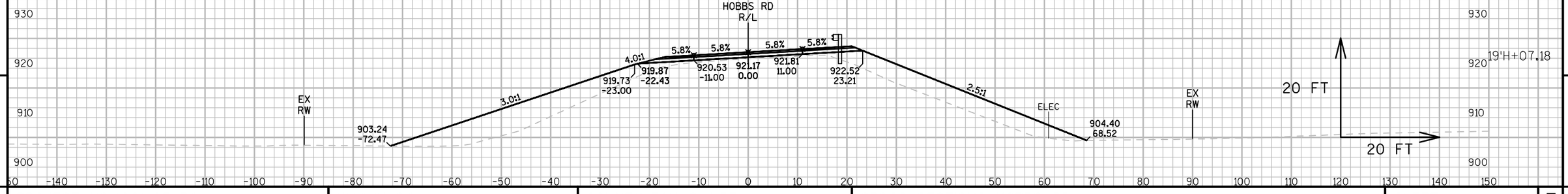
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: HOBBS RD	SHEET	E

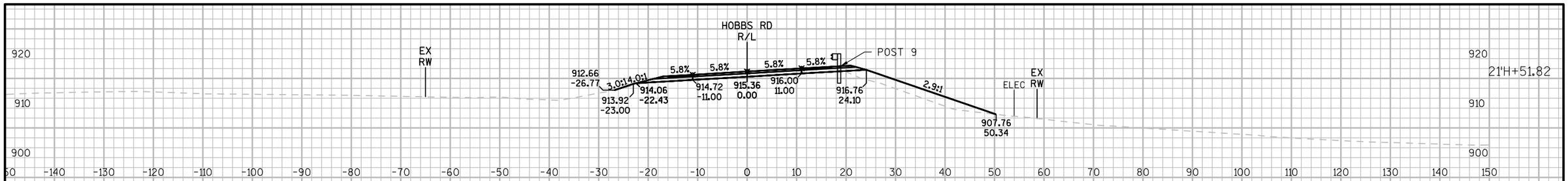
FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090101-XSNEW 11.18.2016BACKUPCOPY.DWG
LAYOUT NAME - HOBBS RD - (09)
PLOT DATE : 1/5/2017 10:31 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

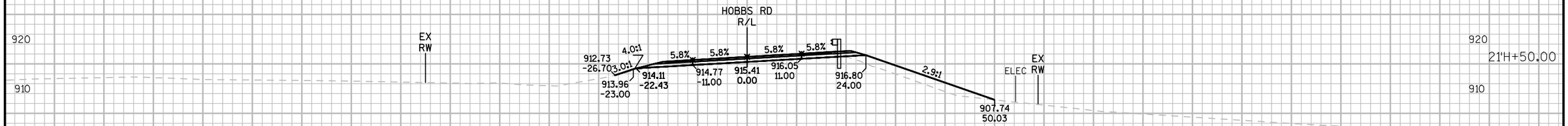


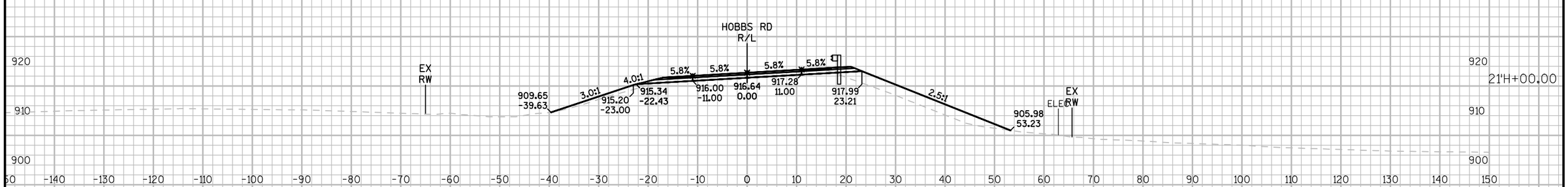


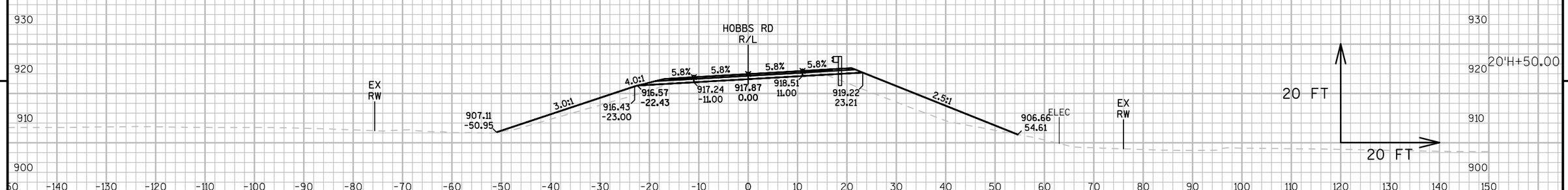


PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: HOBBS RD	SHEET	E









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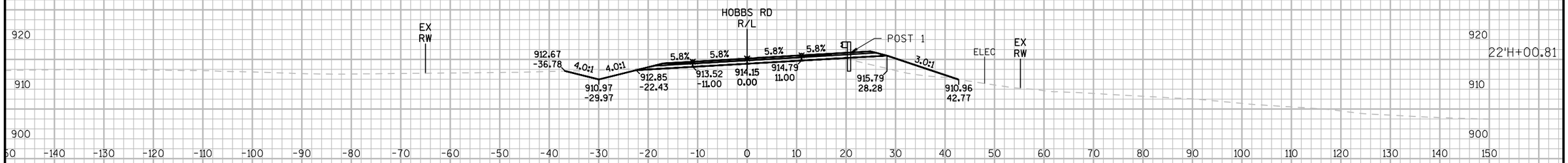
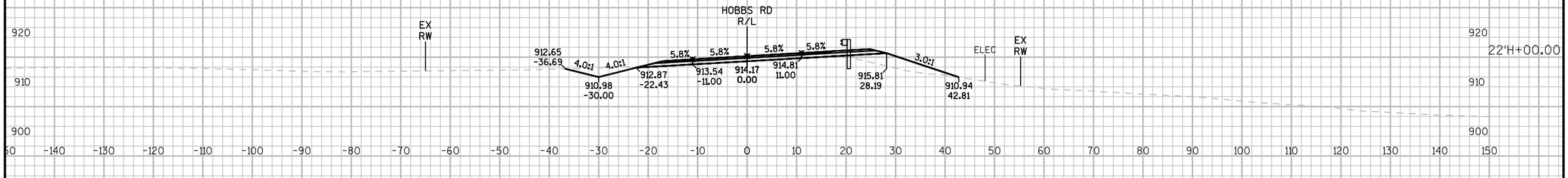
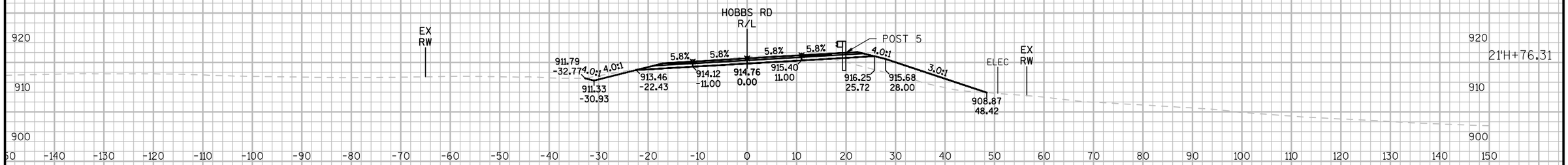
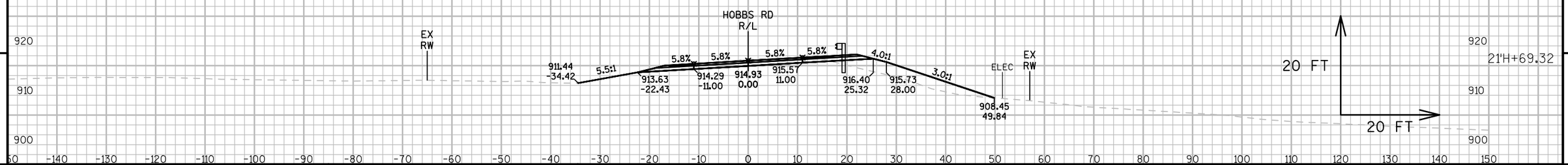
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090101-XSNEW 11.18.2016BACKUPCOPY.DWG
LAYOUT NAME - HOBBS RD - (11)
PLOT DATE : 1/5/2017 10:31 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49





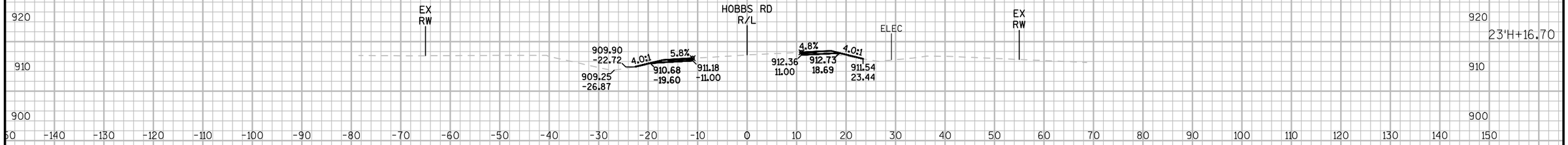


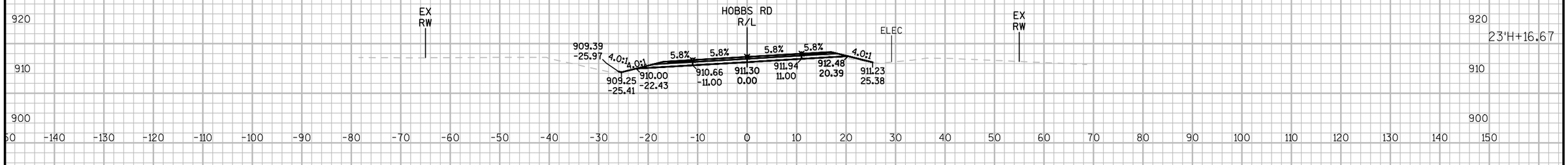


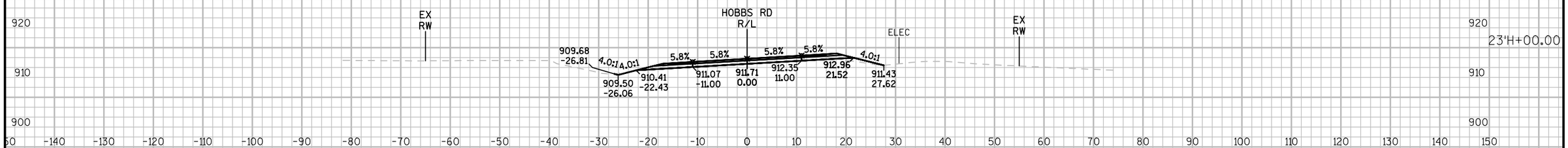
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: HOBBS RD	SHEET	E

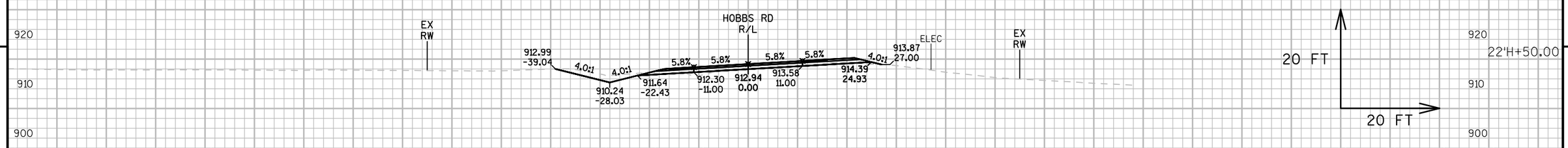
FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090101-XSNEW 11.18.2016BACKUPCOPY.DWG
LAYOUT NAME - HOBBS RD - (12)

PLOT DATE : 1/5/2017 10:32 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT

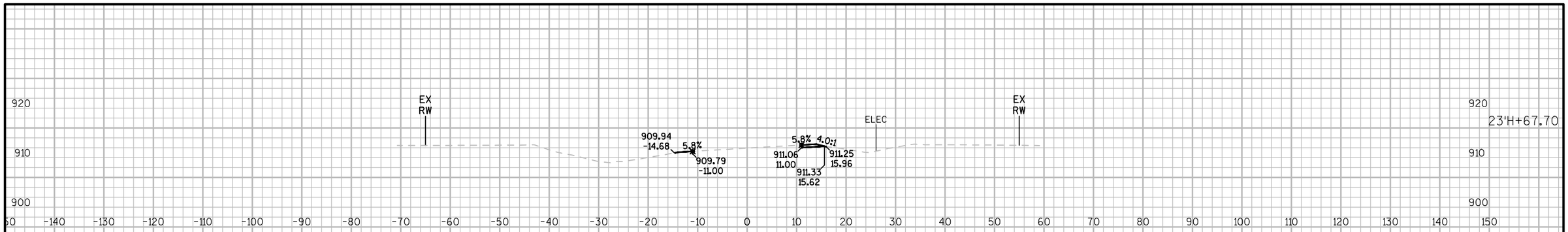


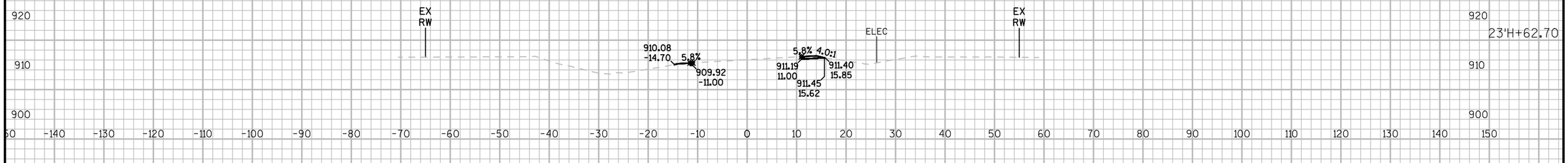


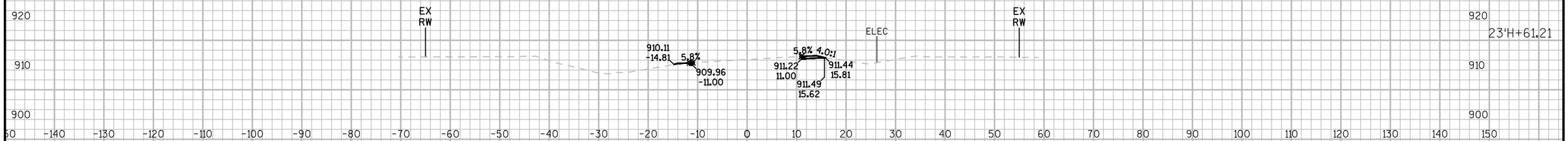


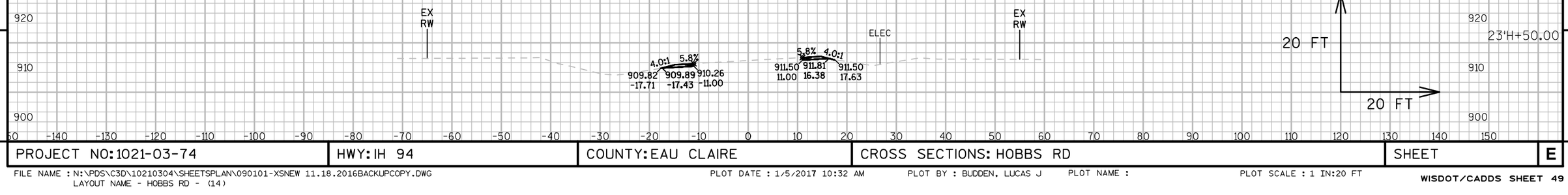


PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: HOBBS RD	SHEET	E









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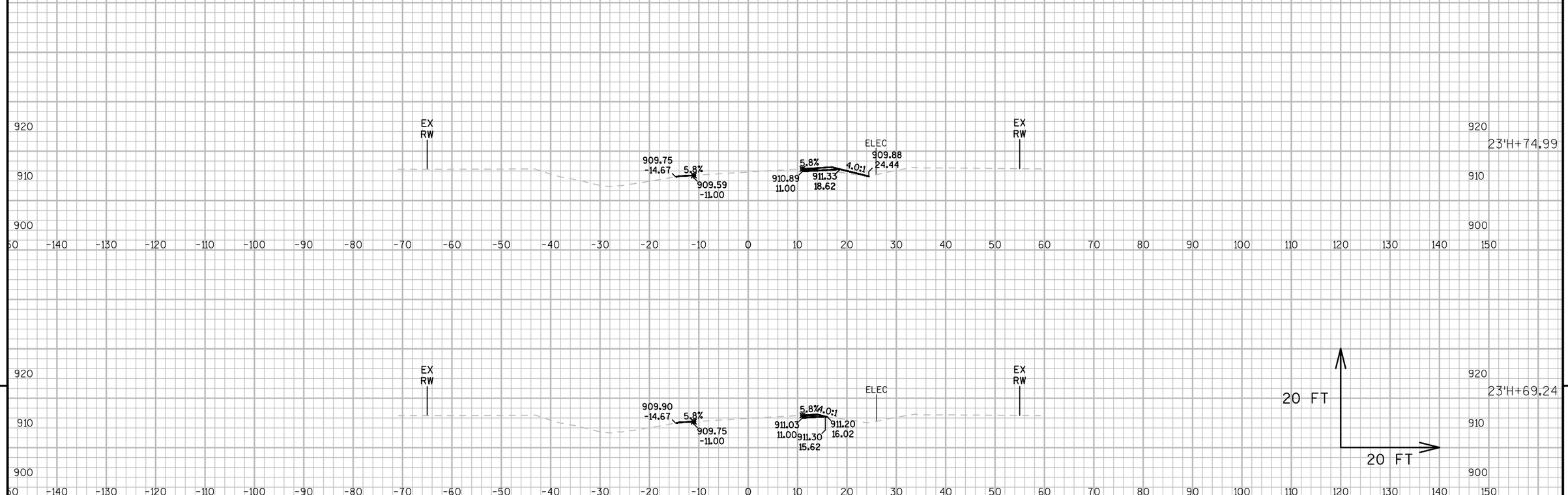
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090101-XSNEW 11.18.2016BACKUPCOPY.DWG
LAYOUT NAME - HOBBS RD - (14)

PLOT DATE : 1/5/2017 10:32 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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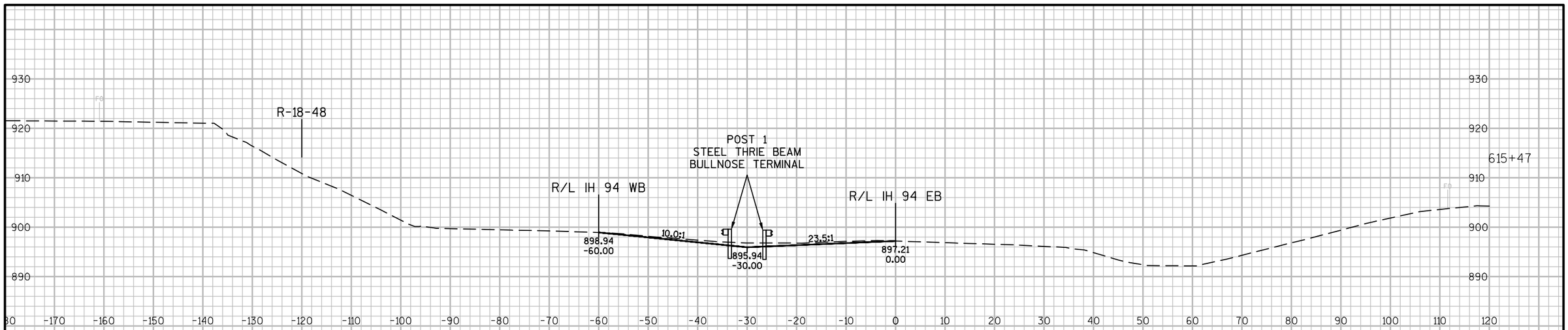
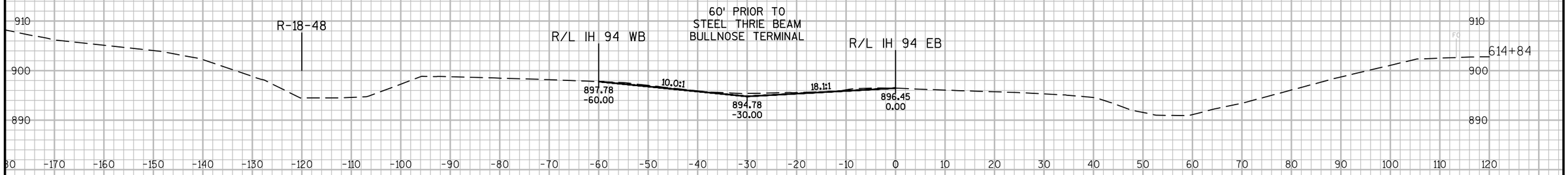
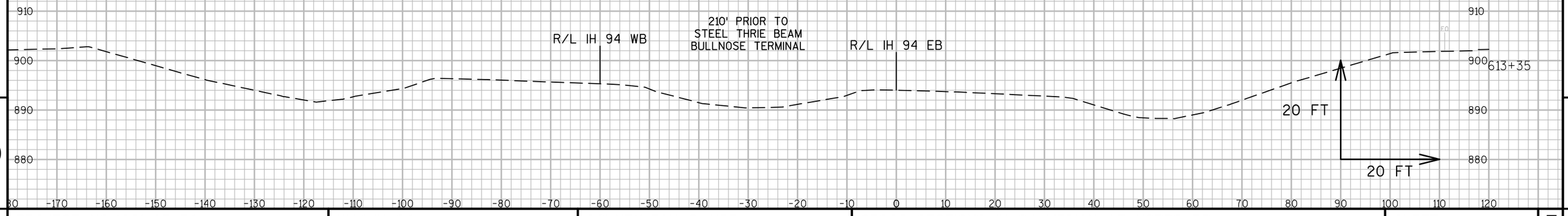
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090101-XSNEW 11.18.2016BACKUPCOPY.DWG
LAYOUT NAME - HOBBS RD - (15)

PLOT DATE : 1/5/2017 10:33 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT







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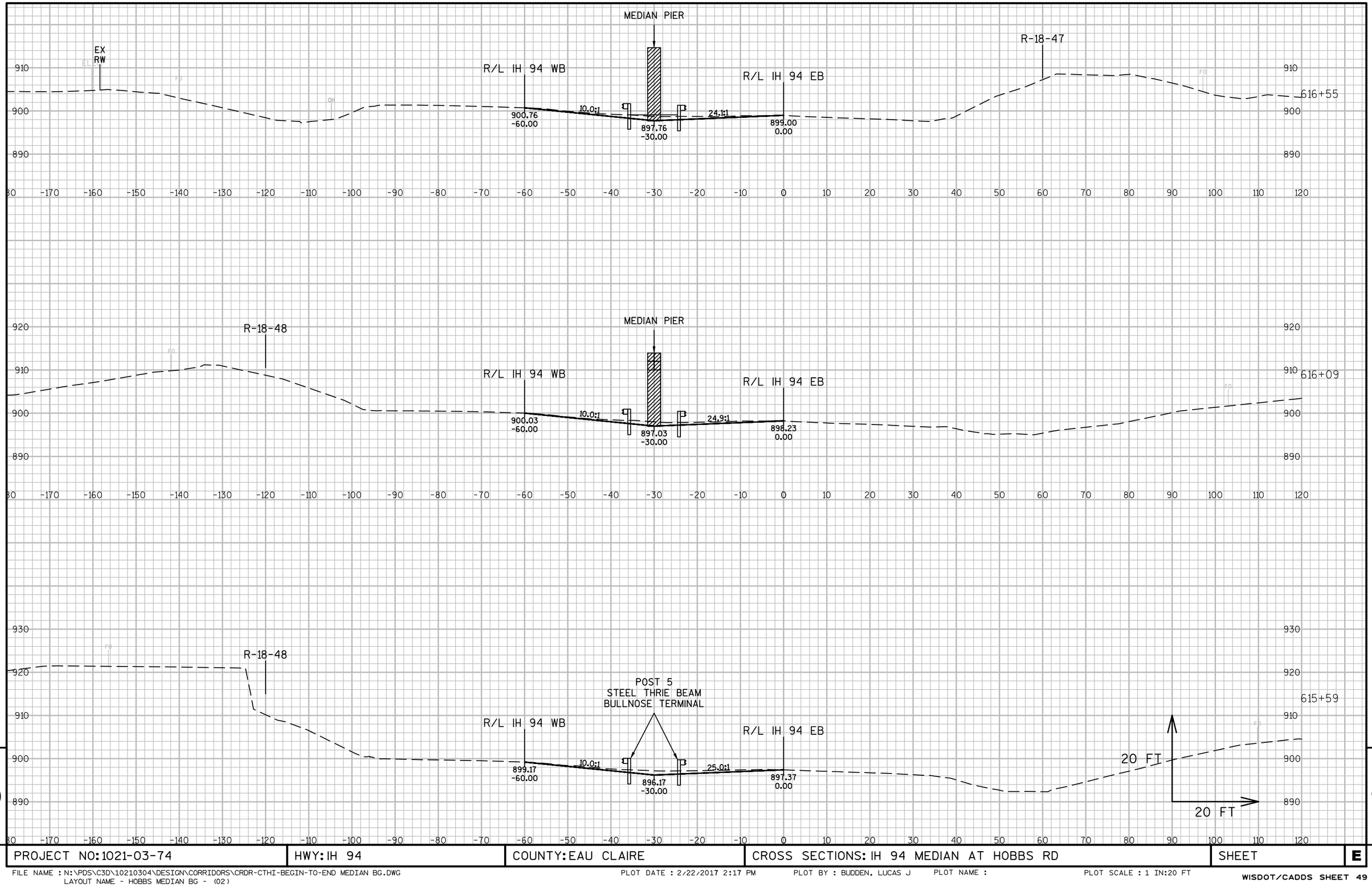
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 MEDIAN AT HOBBS RD	SHEET	E

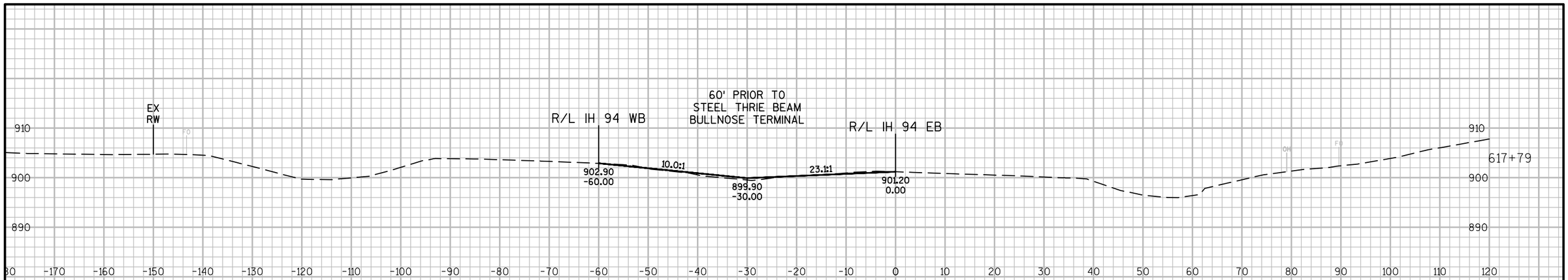
FILE NAME : N:\PDS\C3D\10210304\DESIGN\CORRIDORS\CRDR-CTHI-BEGIN-TO-END MEDIAN BG.DWG
LAYOUT NAME - HOBBS MEDIAN BG - (01)
PLOT DATE : 2/22/2017 2:16 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT

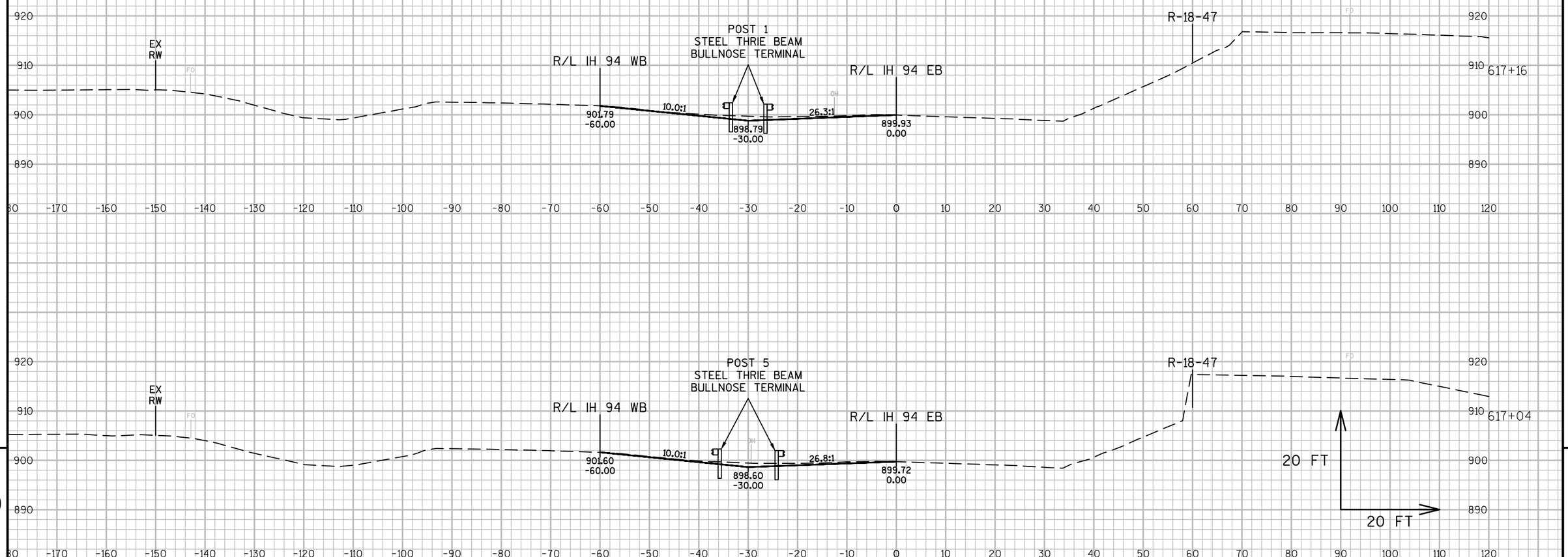


PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 MEDIAN AT HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\CORRIDORS\CRDR-CTHI-BEGIN-TO-END MEDIAN BG.DWG
LAYOUT NAME - HOBBS MEDIAN BG - (02)

PLOT DATE : 2/22/2017 2:17 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



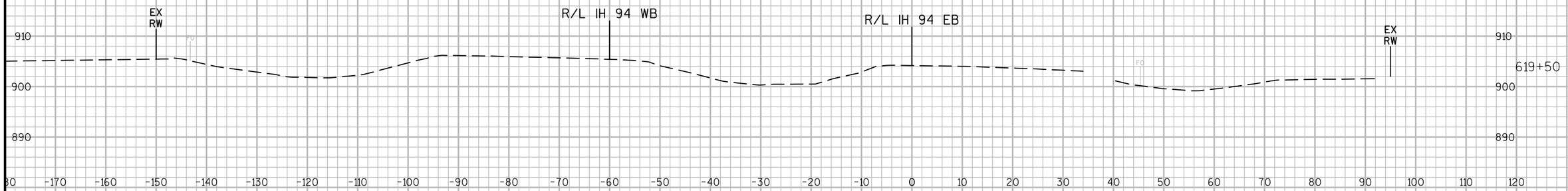


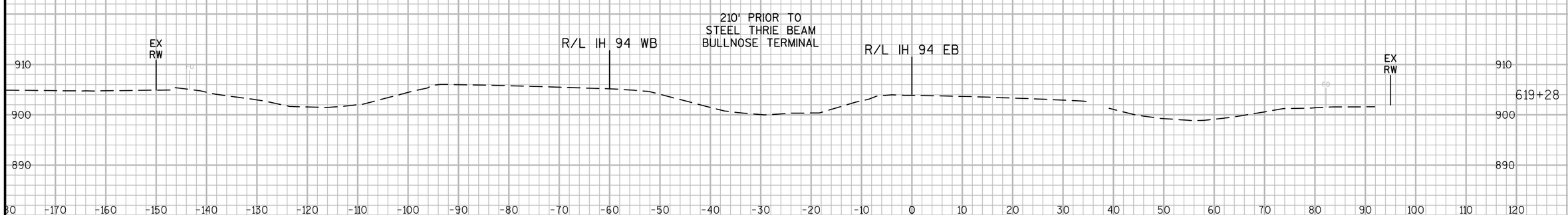
9 9

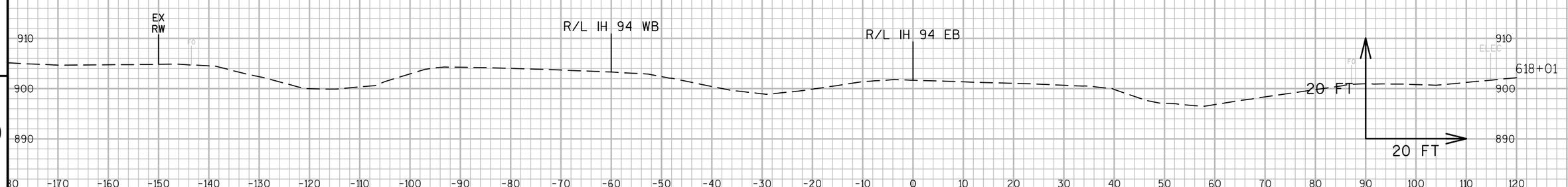
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 MEDIAN AT HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\CORRIDORS\CRDR-CTHI-BEGIN-TO-END MEDIAN BG.DWG
LAYOUT NAME - HOBBS MEDIAN BG - (03)

PLOT DATE : 2/22/2017 2:17 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT







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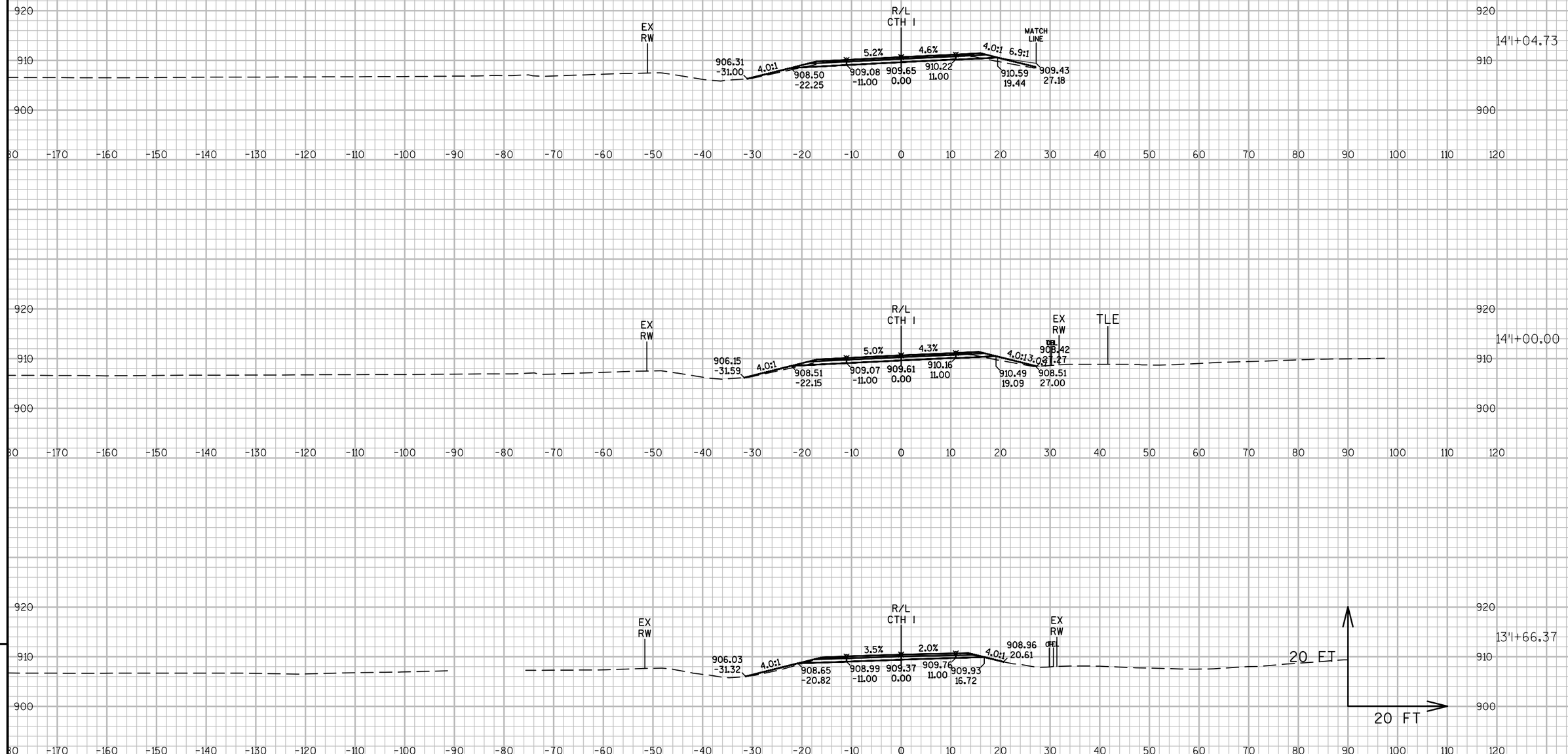
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 MEDIAN AT HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\CORRIDORS\CRDR-CTHI-BEGIN-TO-END MEDIAN BG.DWG
LAYOUT NAME - HOBBS MEDIAN BG - (04)
PLOT DATE : 2/22/2017 2:17 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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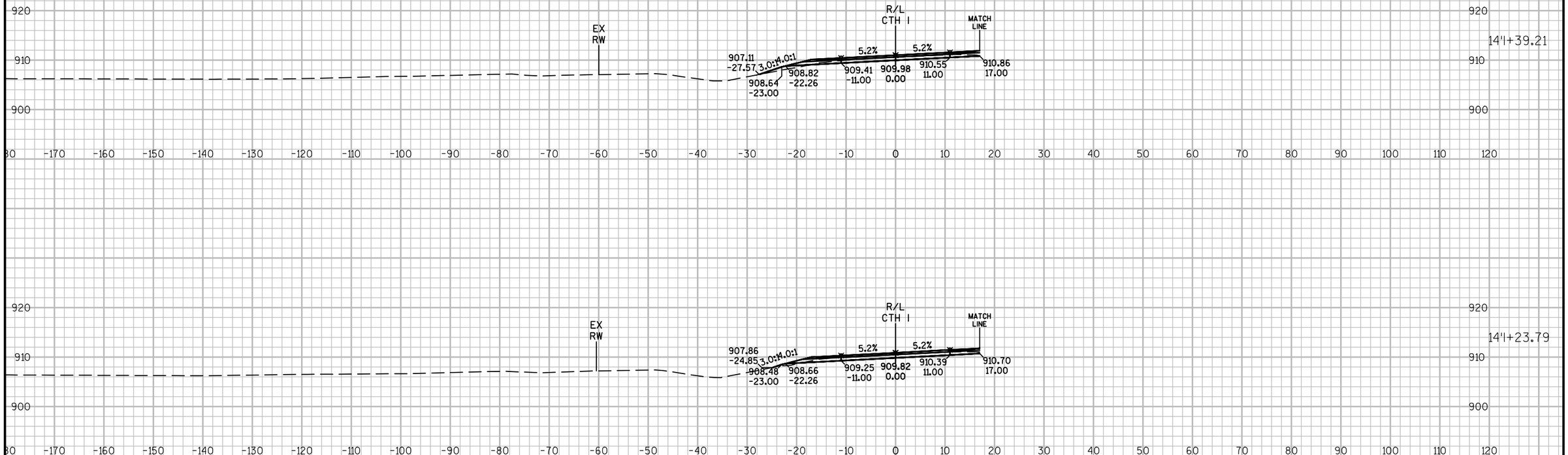
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (01)
PLOT DATE : 2/20/2017 8:39 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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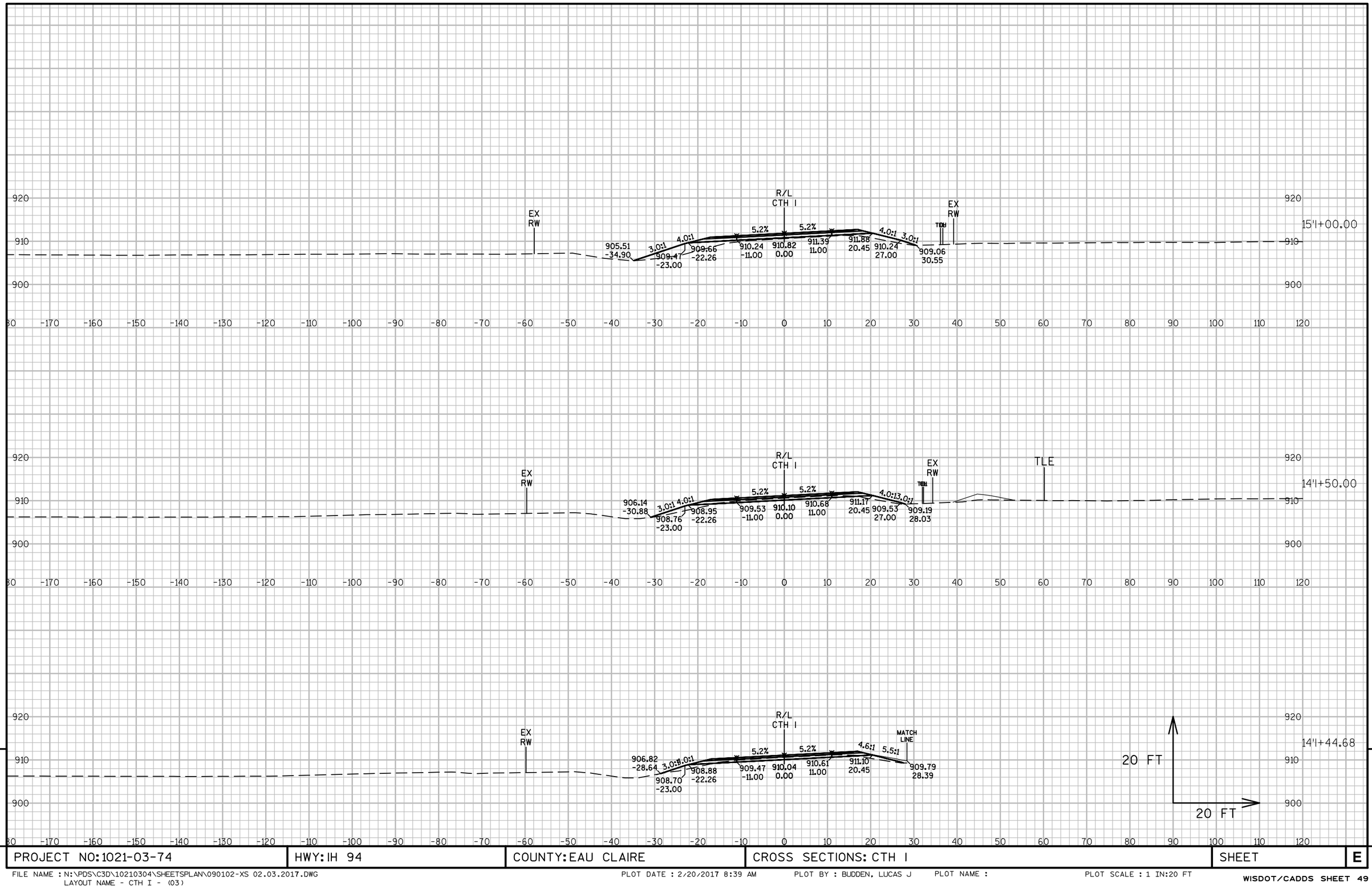
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (02)

PLOT DATE : 2/20/2017 8:39 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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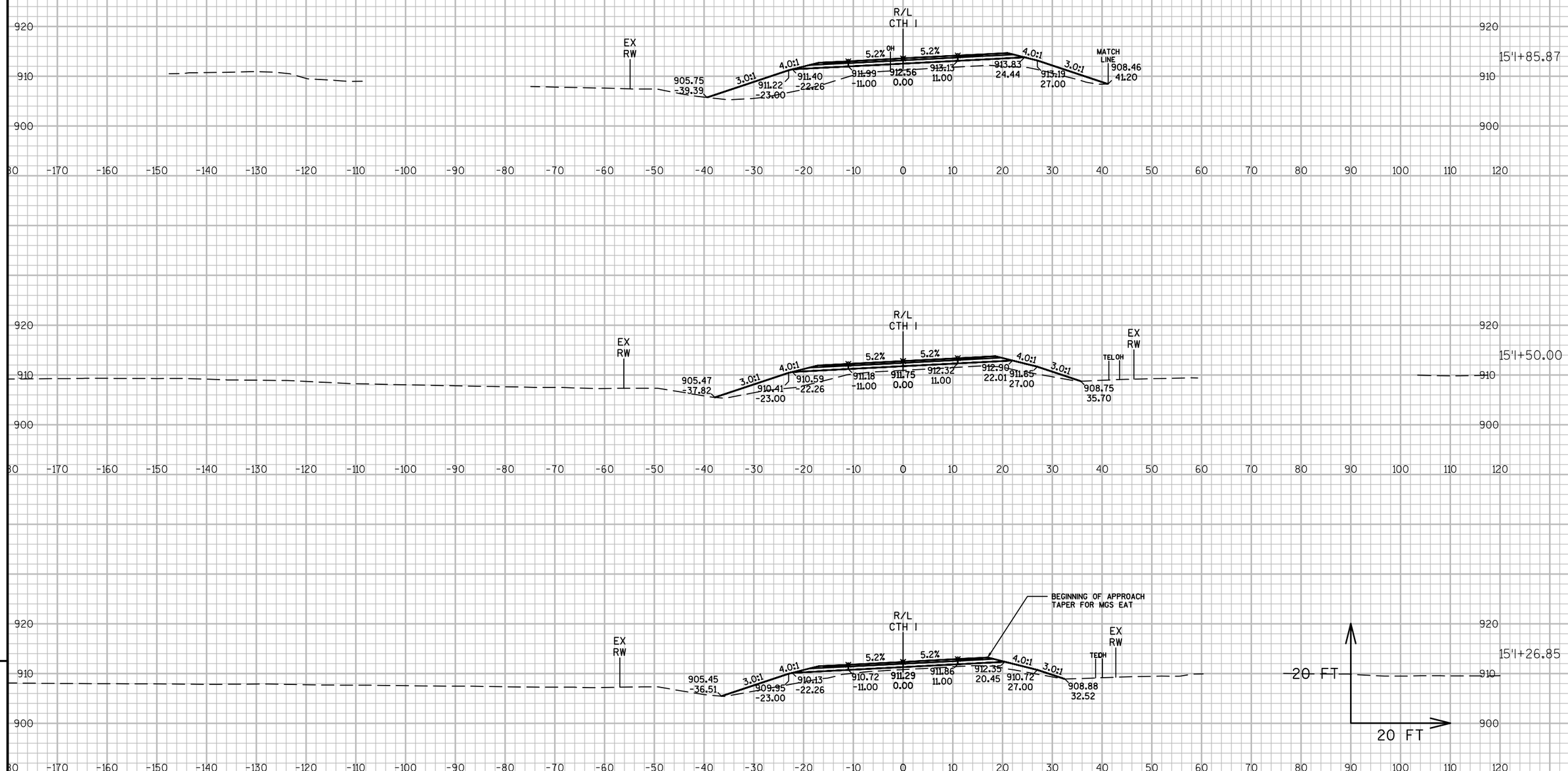
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (03)

PLOT DATE : 2/20/2017 8:39 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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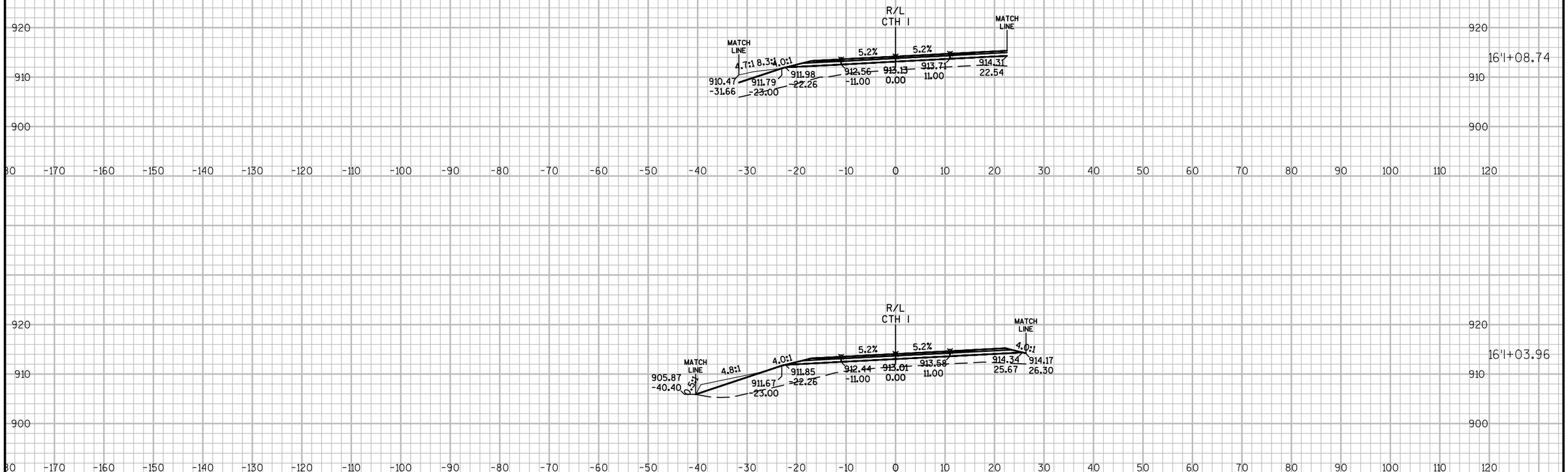
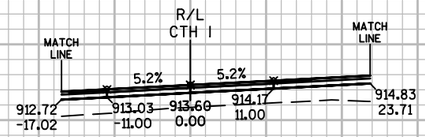
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (04)
PLOT DATE : 2/20/2017 8:40 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

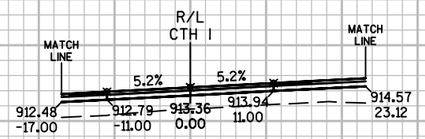


PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

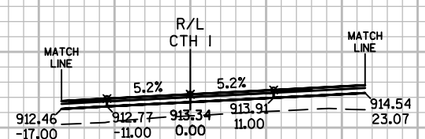
FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (05)
PLOT DATE : 2/20/2017 8:40 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



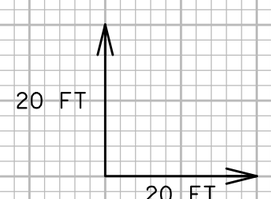
16'I+26.07



16'I+17.38



16'I+16.55



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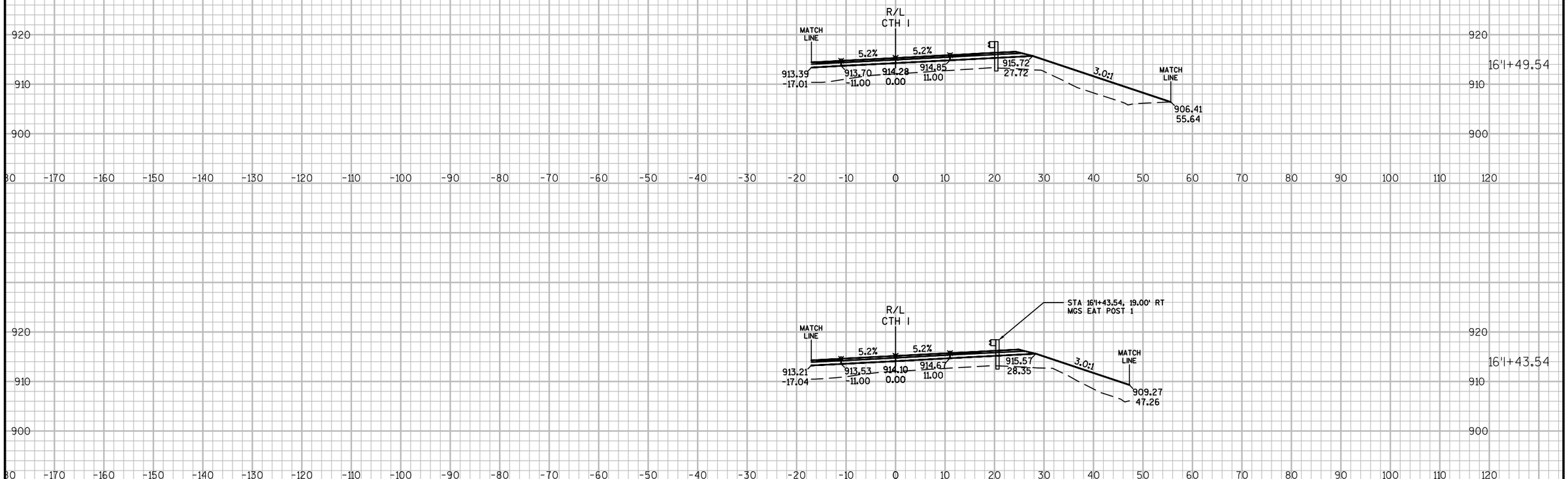
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (06)

PLOT DATE : 2/20/2017 8:40 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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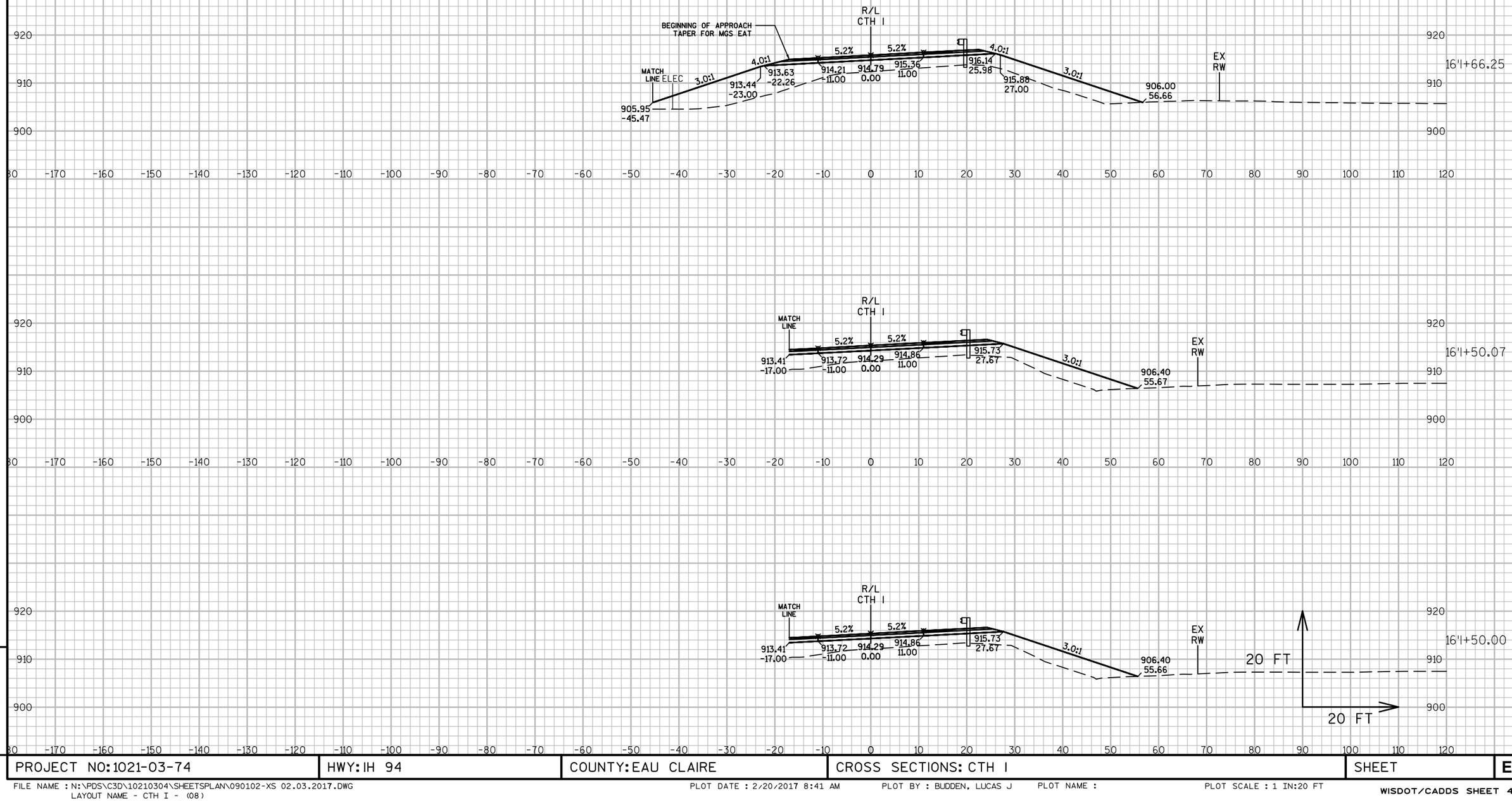
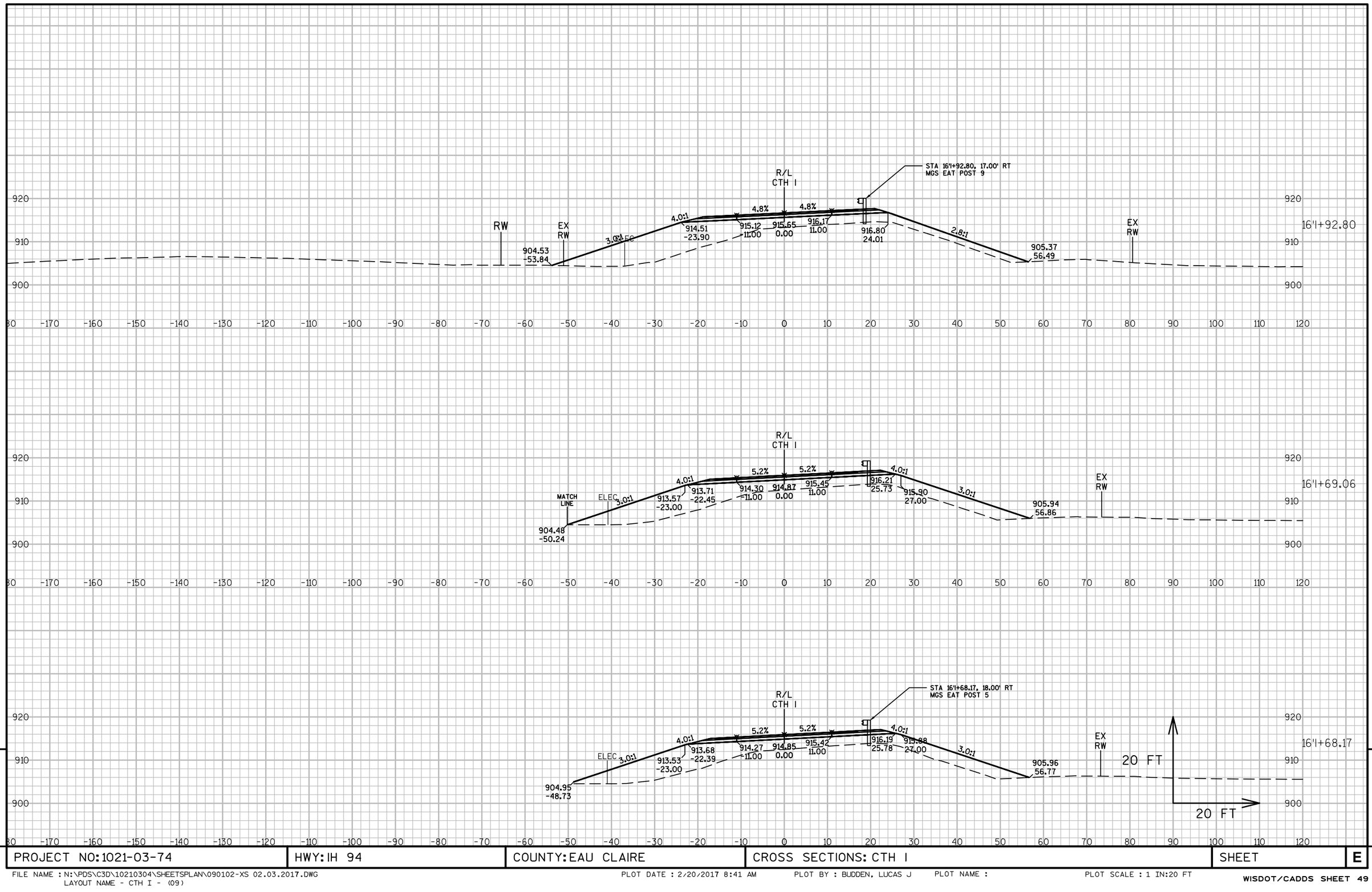
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

9

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (07)
PLOT DATE : 2/20/2017 8:40 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E



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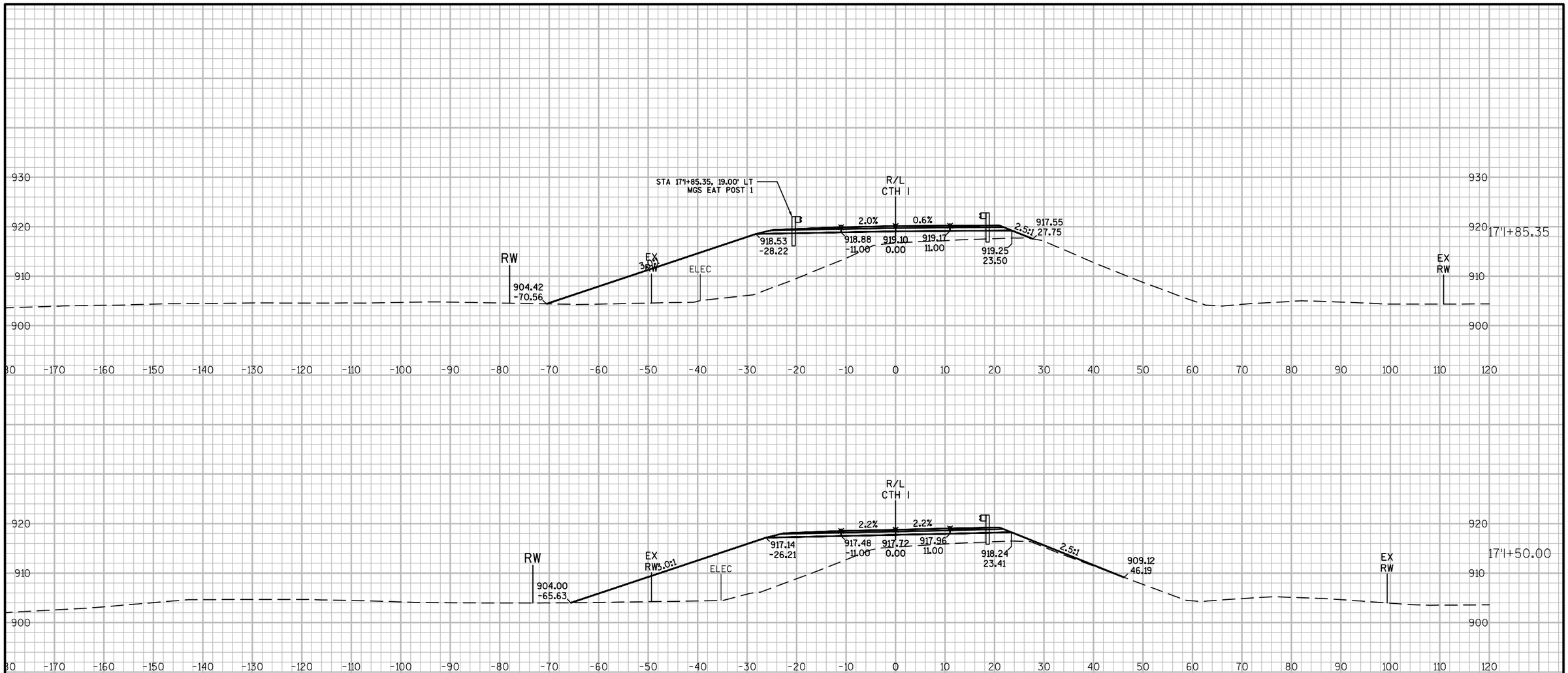
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (09)

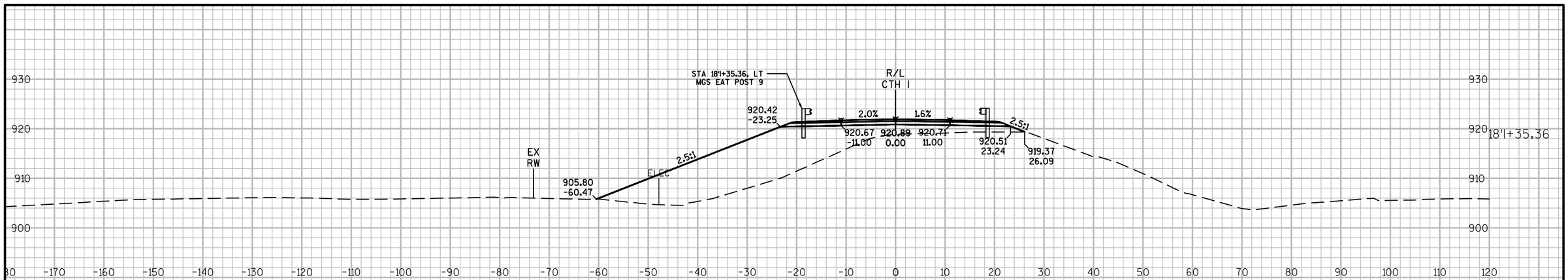
PLOT DATE : 2/20/2017 8:41 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT

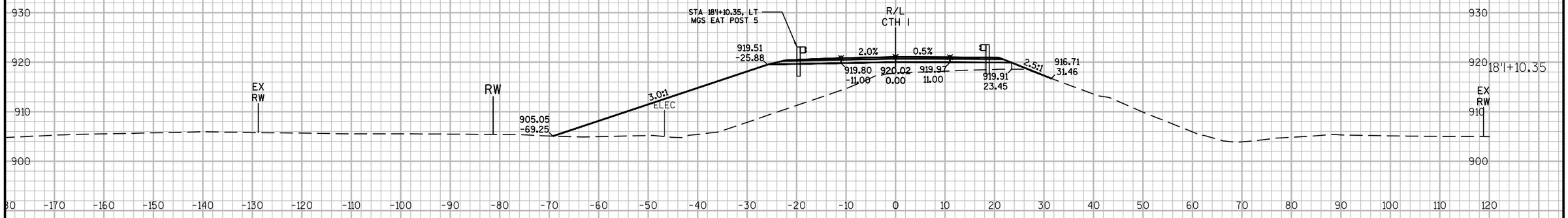


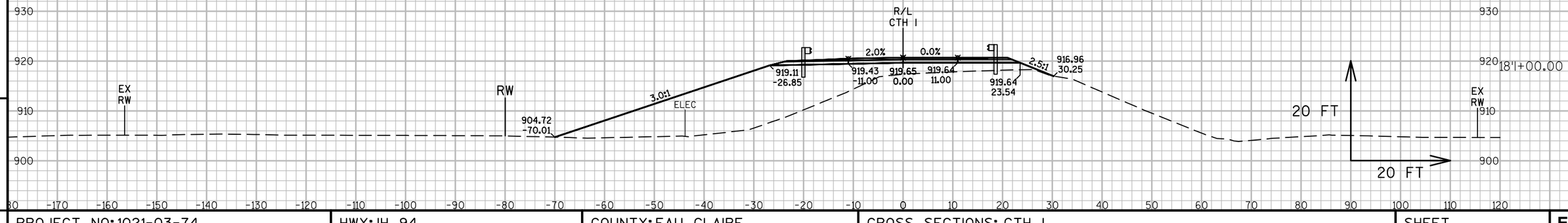
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (10)

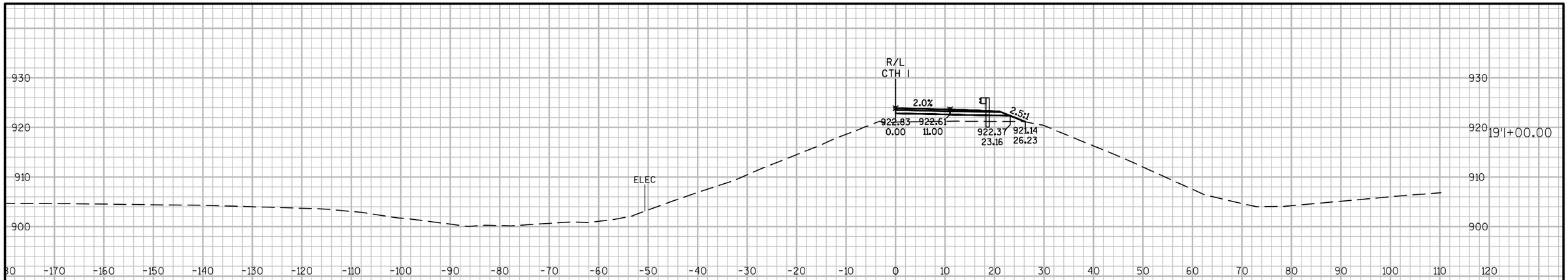
PLOT DATE : 2/20/2017 8:41 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT

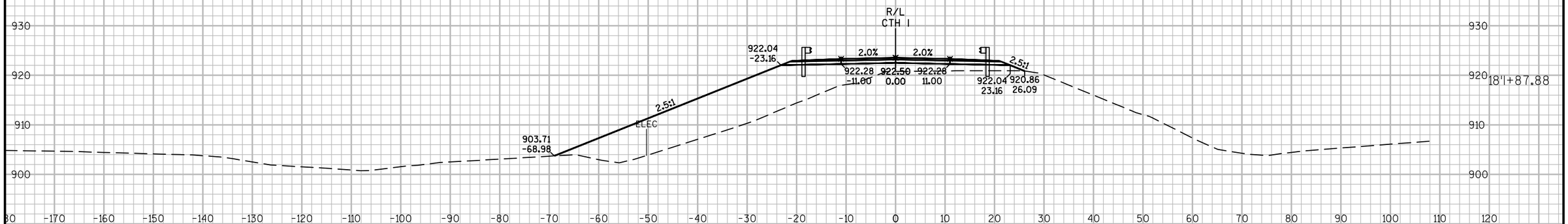


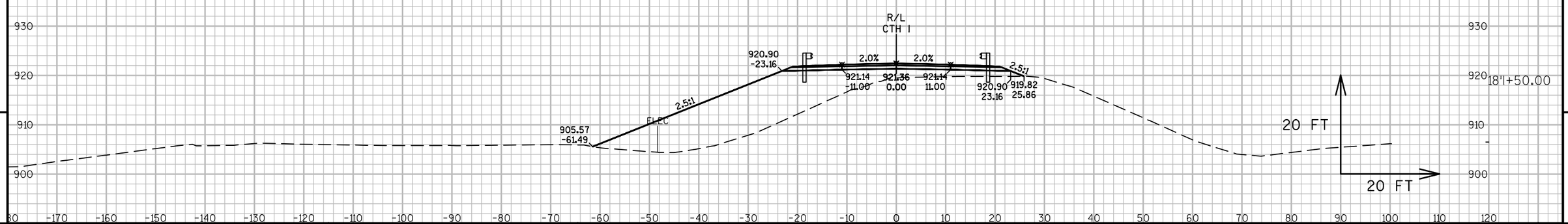




PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E







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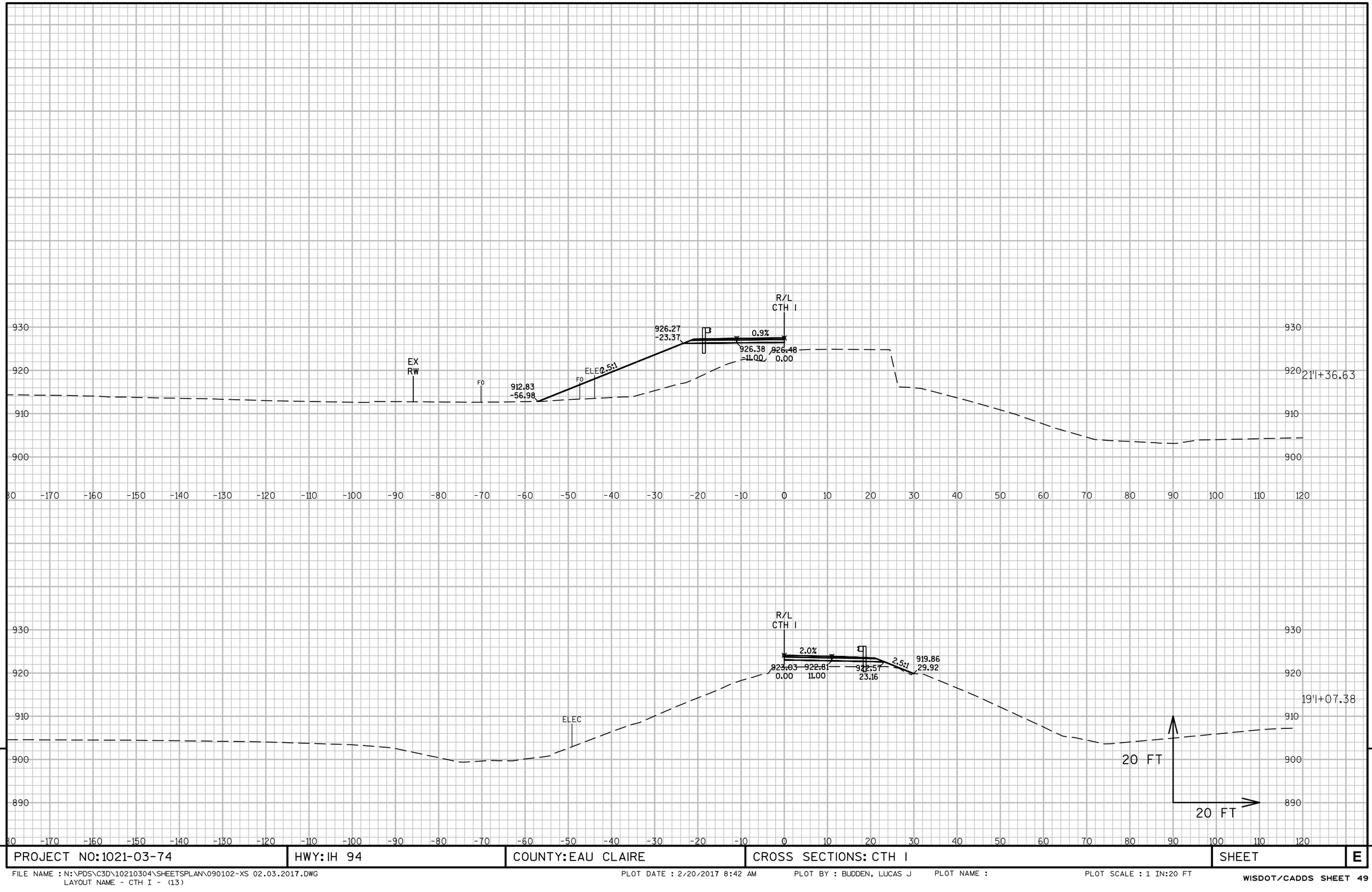
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (12)

PLOT DATE : 2/20/2017 8:41 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT

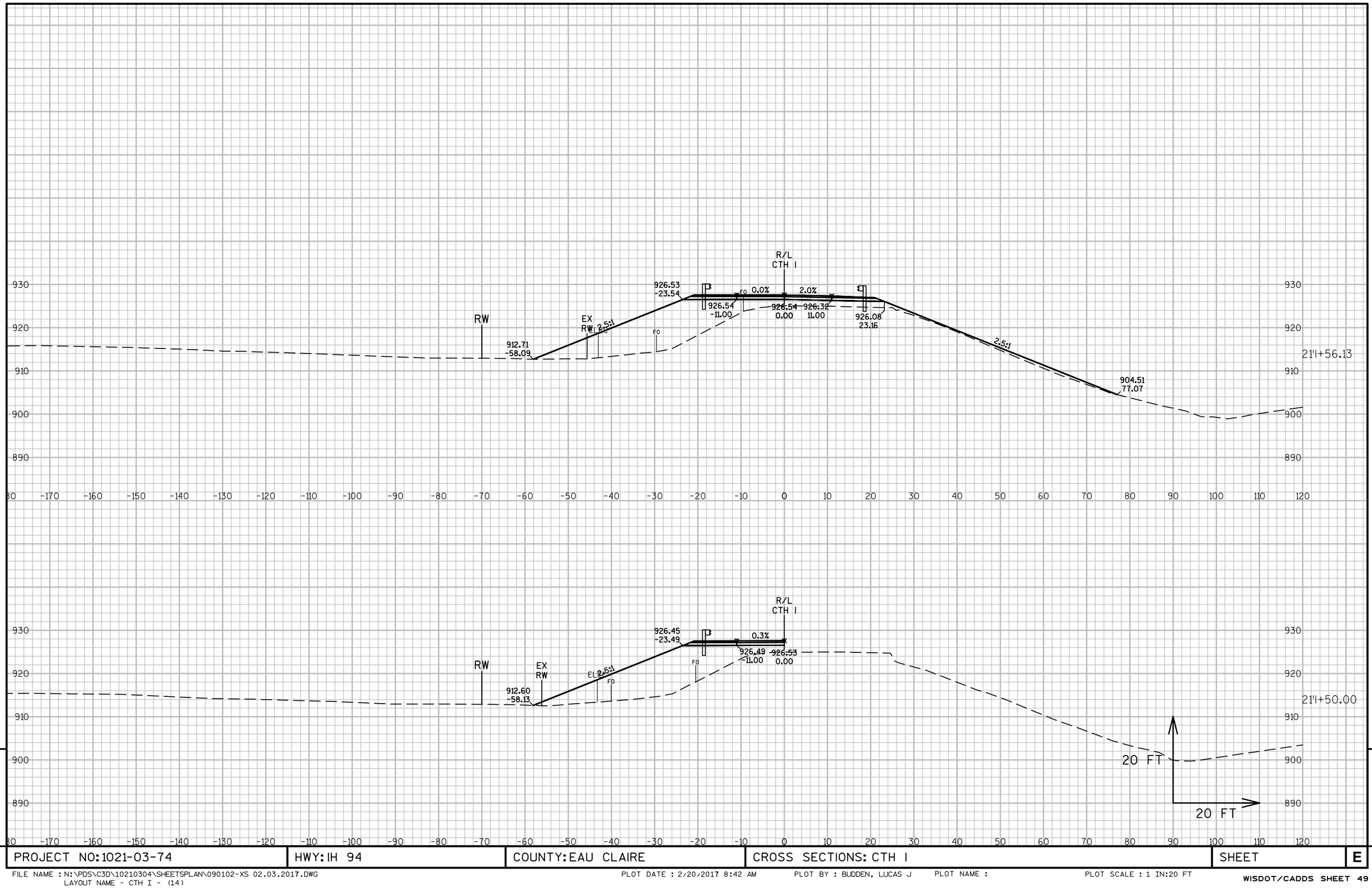


PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (13)

PLOT DATE : 2/20/2017 8:42 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT

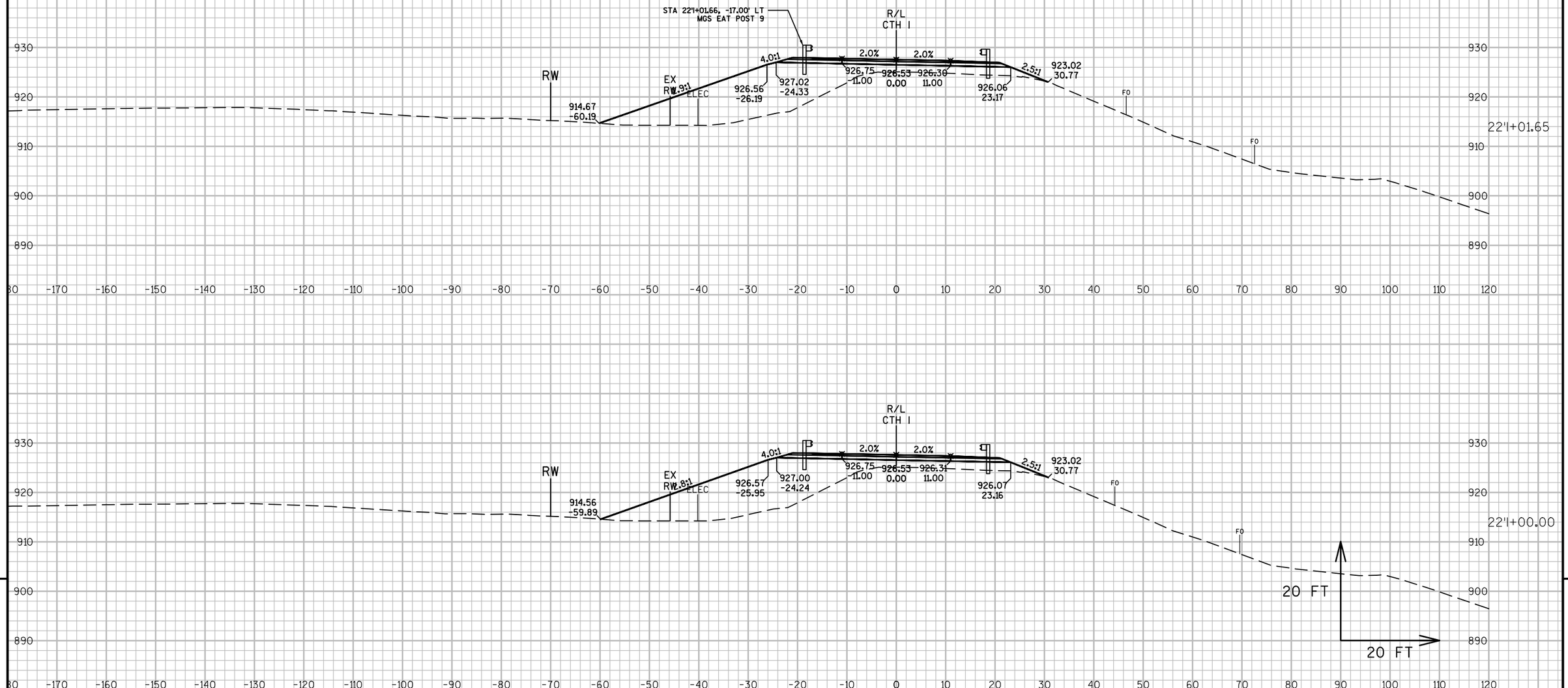
WISDOT/CADDS SHEET 49



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (14)

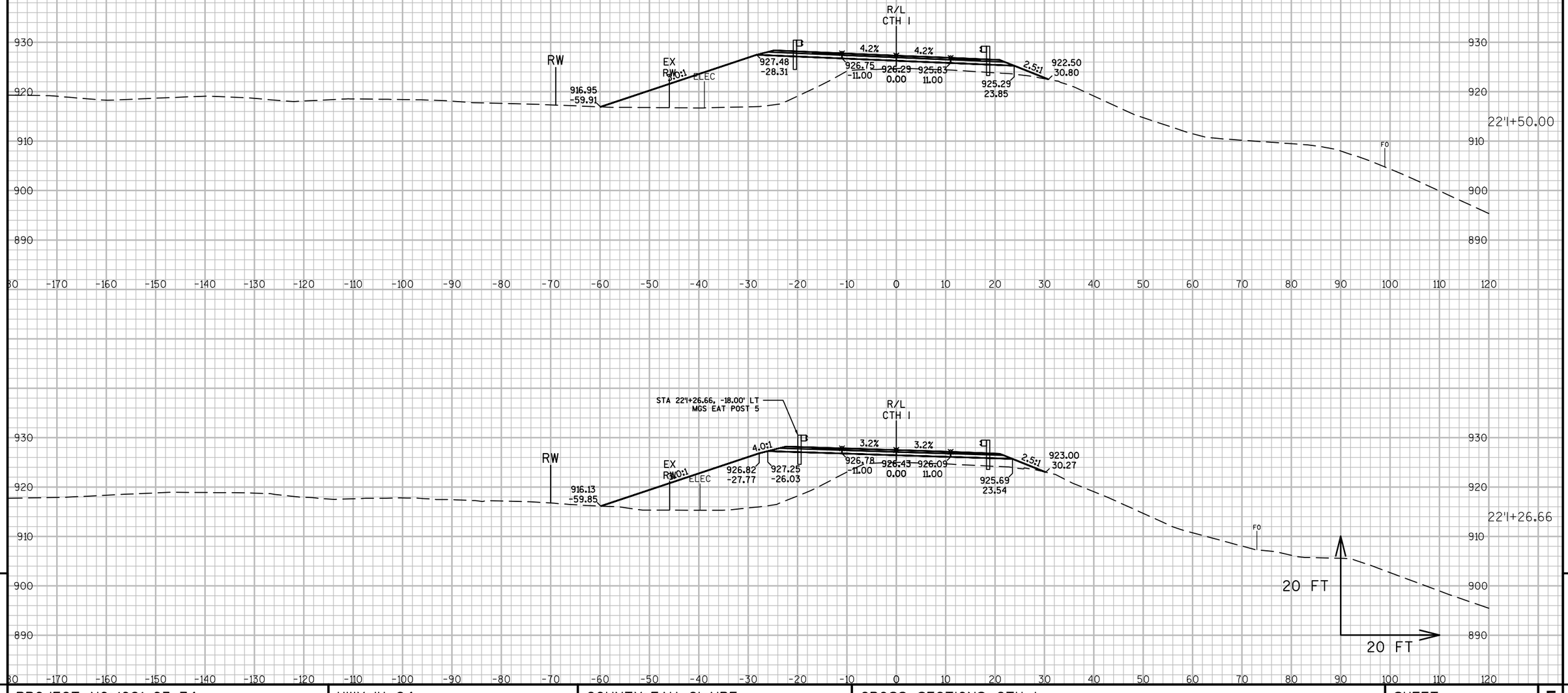
PLOT DATE : 2/20/2017 8:42 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (15)

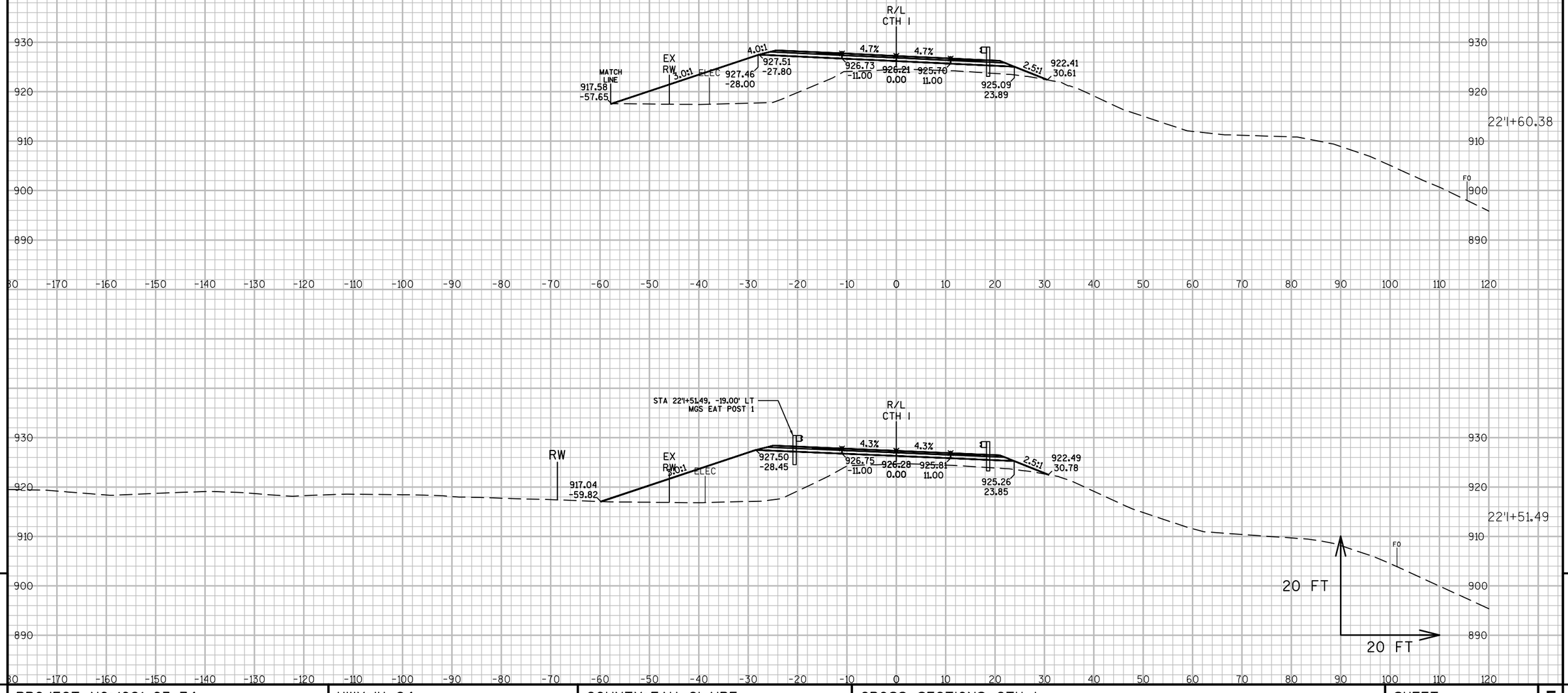
PLOT DATE : 2/20/2017 8:42 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (16)

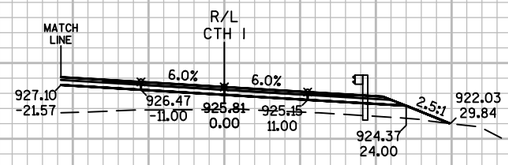
PLOT DATE : 2/20/2017 8:42 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT

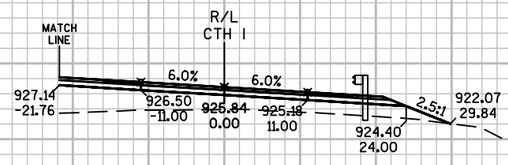


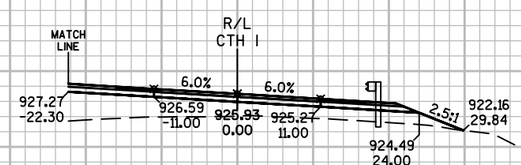
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (17)

PLOT DATE : 2/20/2017 8:43 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT







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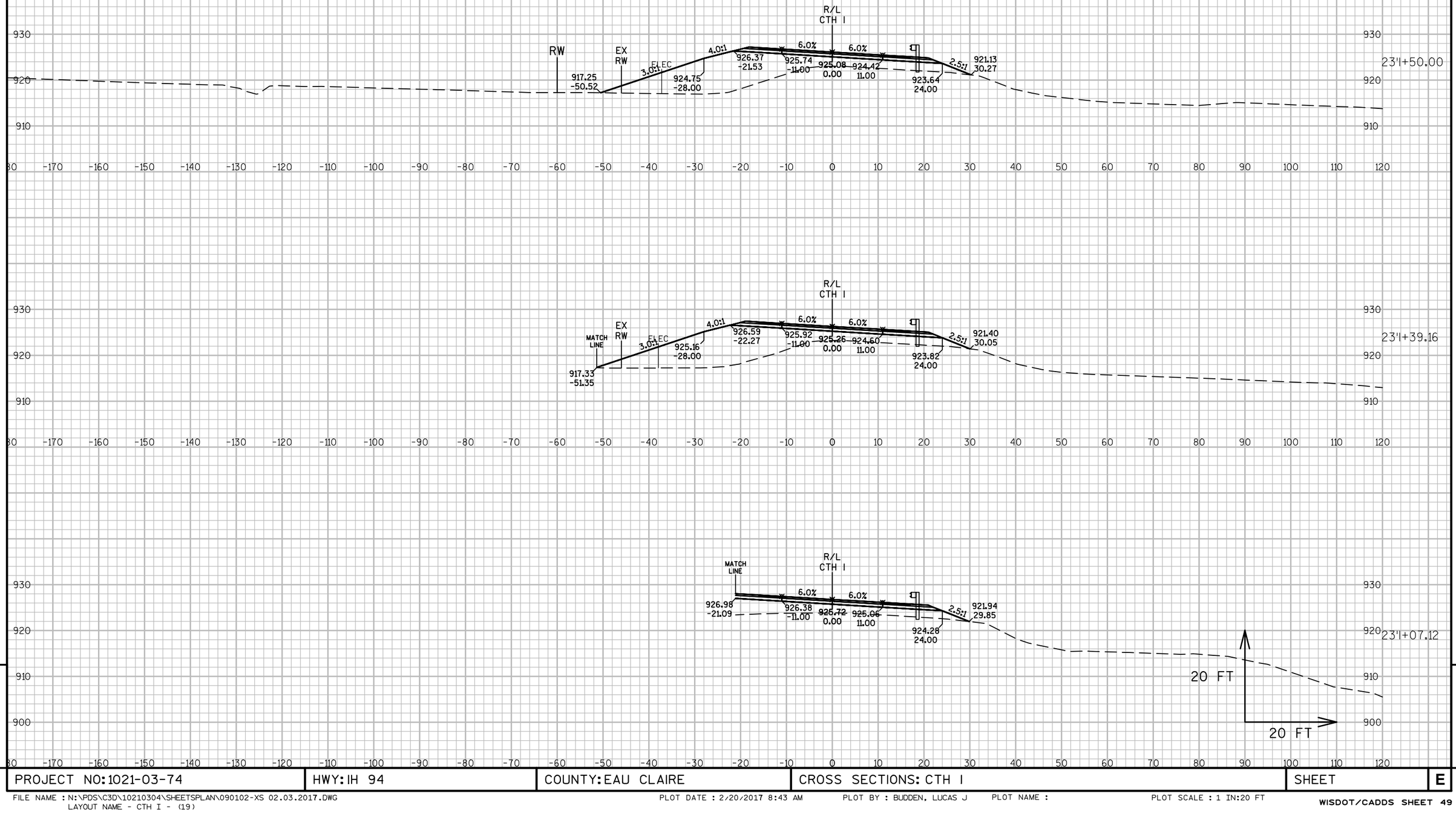
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (18)
PLOT DATE : 2/20/2017 8:43 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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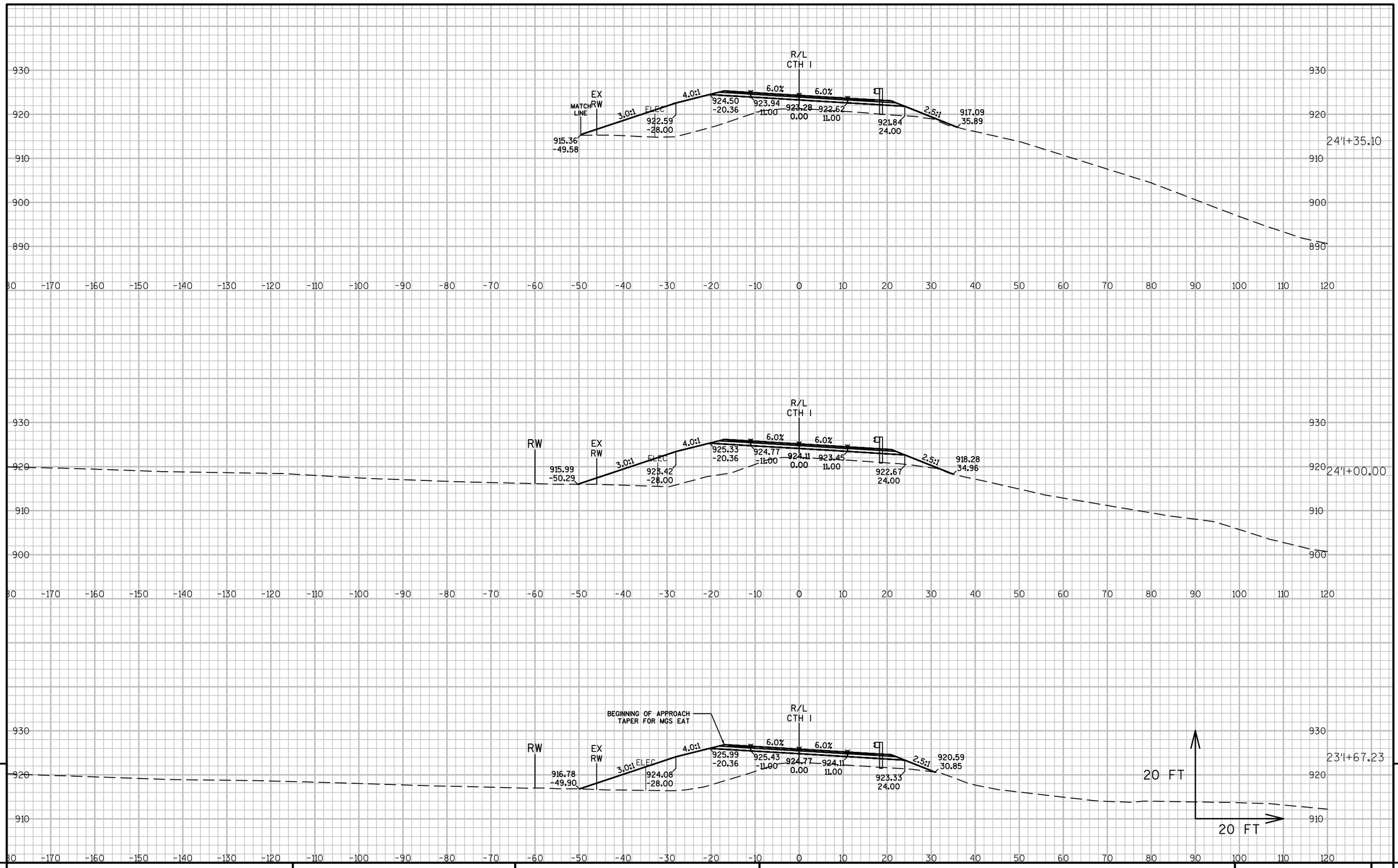
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (19)
PLOT DATE : 2/20/2017 8:43 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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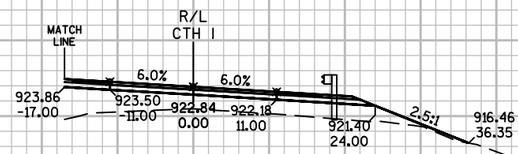
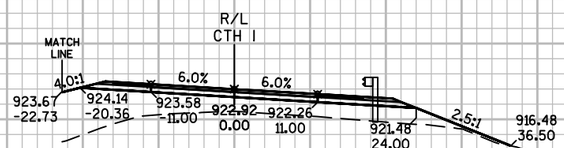
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (20)

PLOT DATE : 2/20/2017 8:43 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



24'I+53.34



24'I+50.00

20 FT

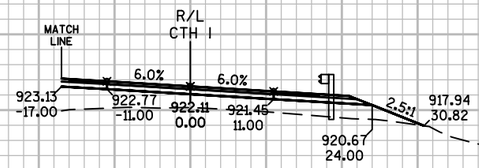
20 FT

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

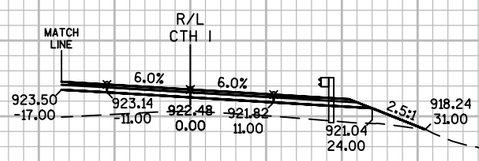
FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (21)

PLOT DATE : 2/20/2017 8:44 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



24'I+83.28



24'I+68.29

20 FT

20 FT

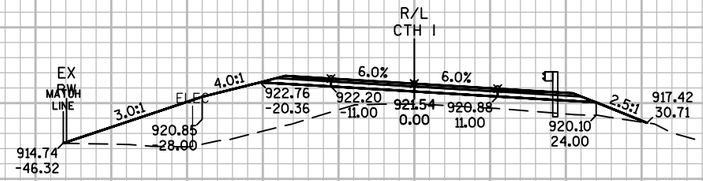
9

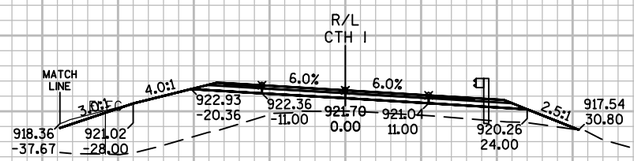
9

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (22)

PLOT DATE : 2/20/2017 8:44 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT





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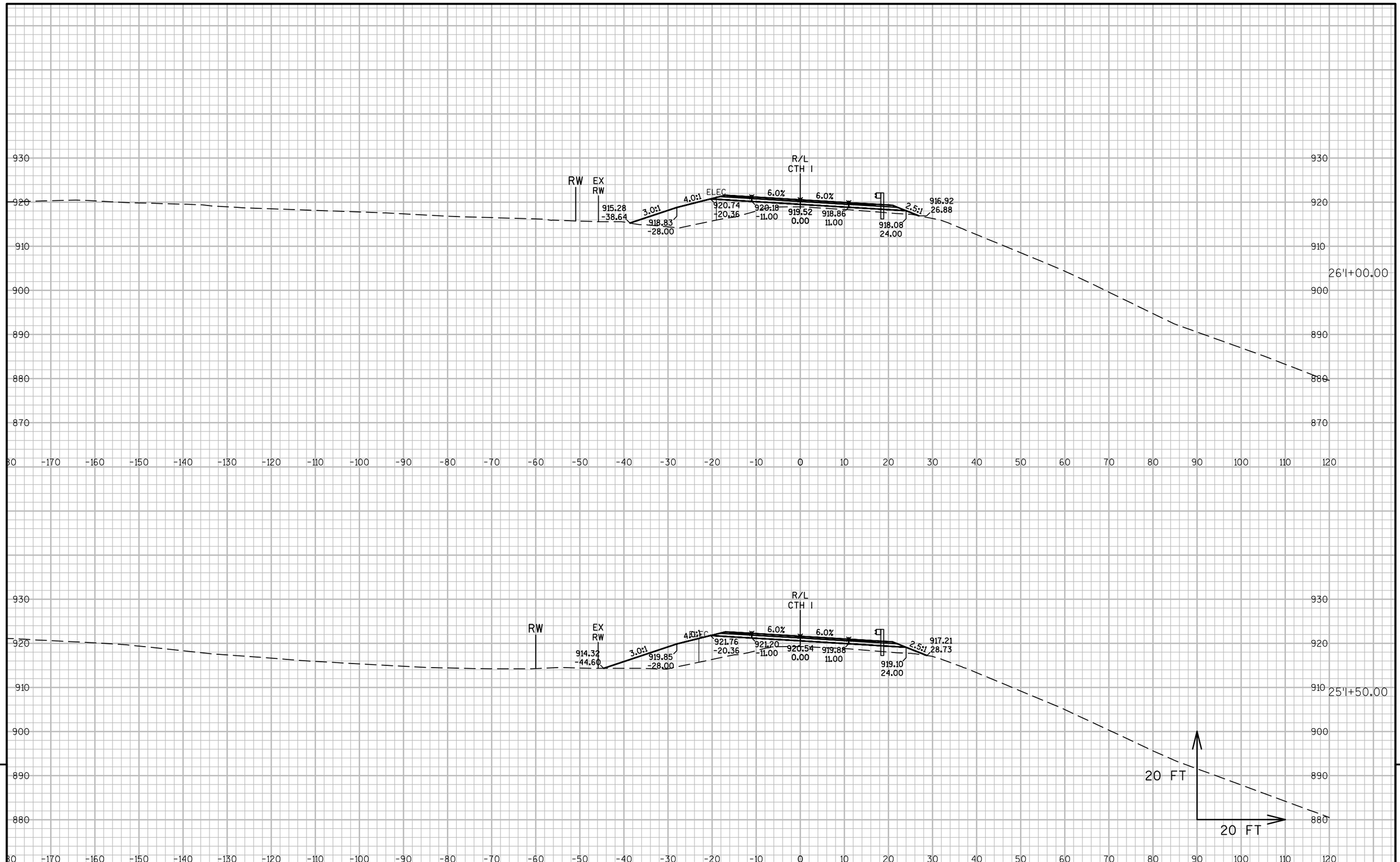
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

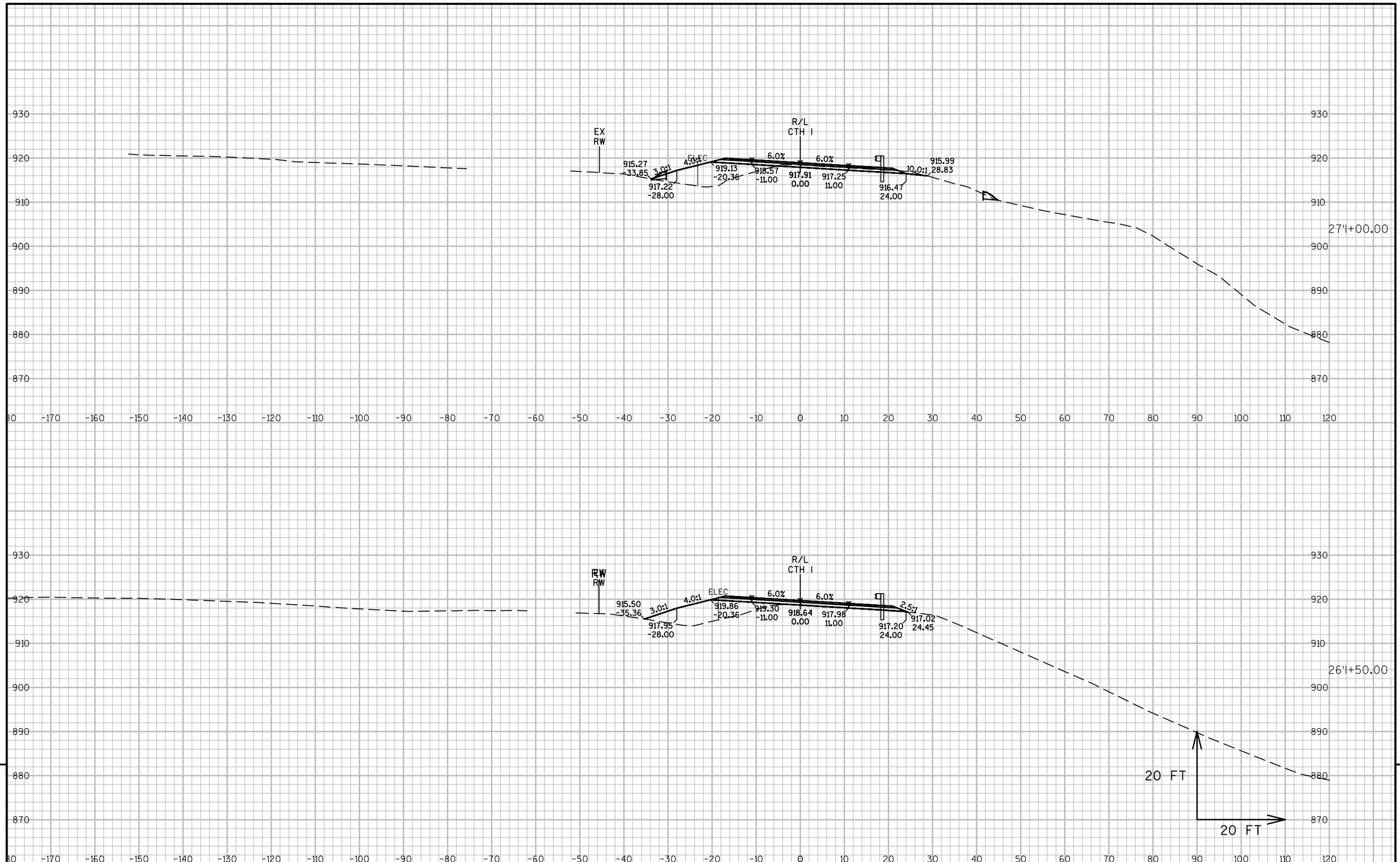
FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (23)
PLOT DATE : 2/20/2017 8:44 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (24)

PLOT DATE : 2/20/2017 8:44 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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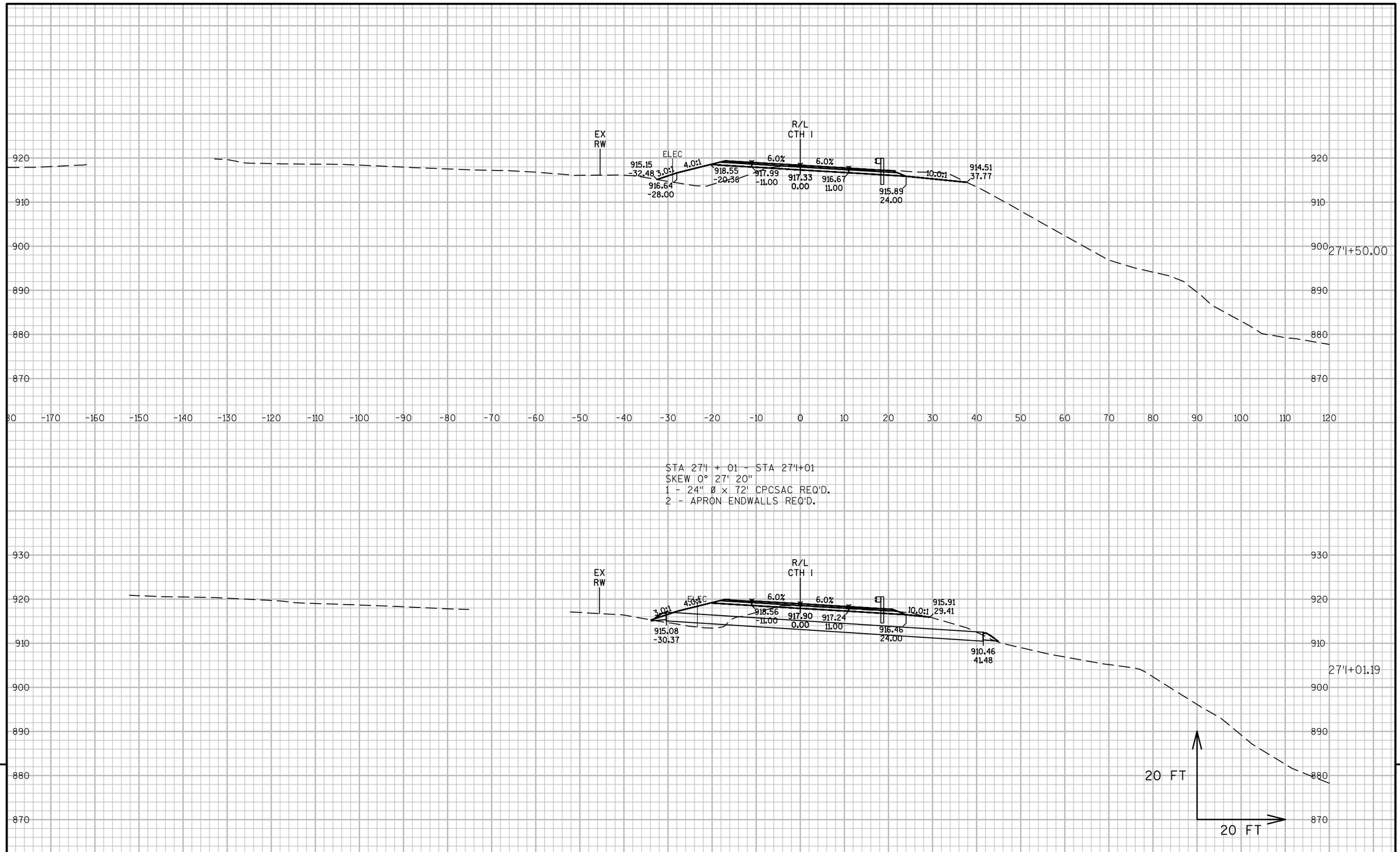
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (25)

PLOT DATE : 2/20/2017 8:45 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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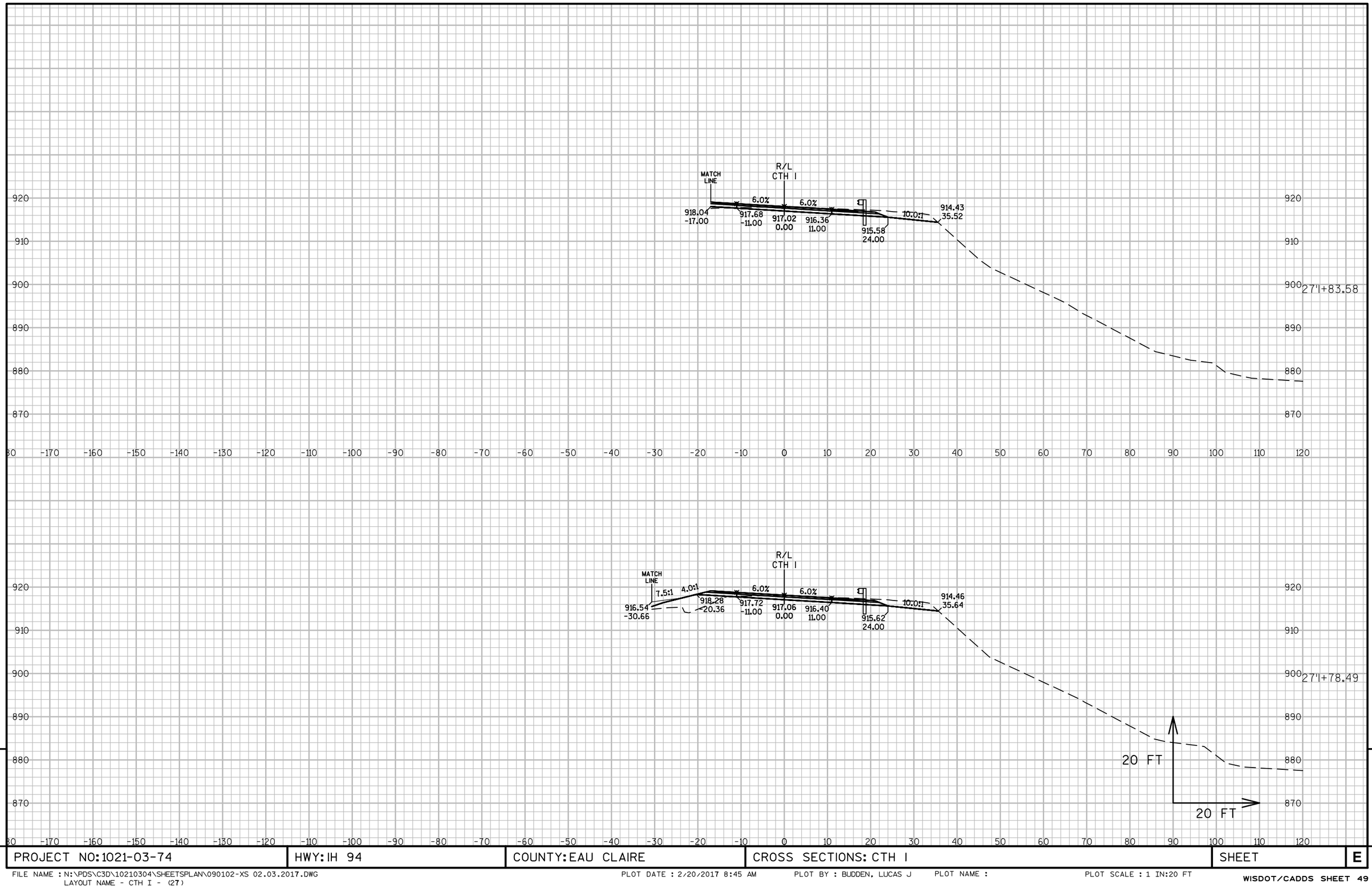
9

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (26)

PLOT DATE : 2/20/2017 8:45 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

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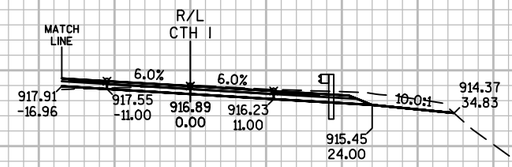
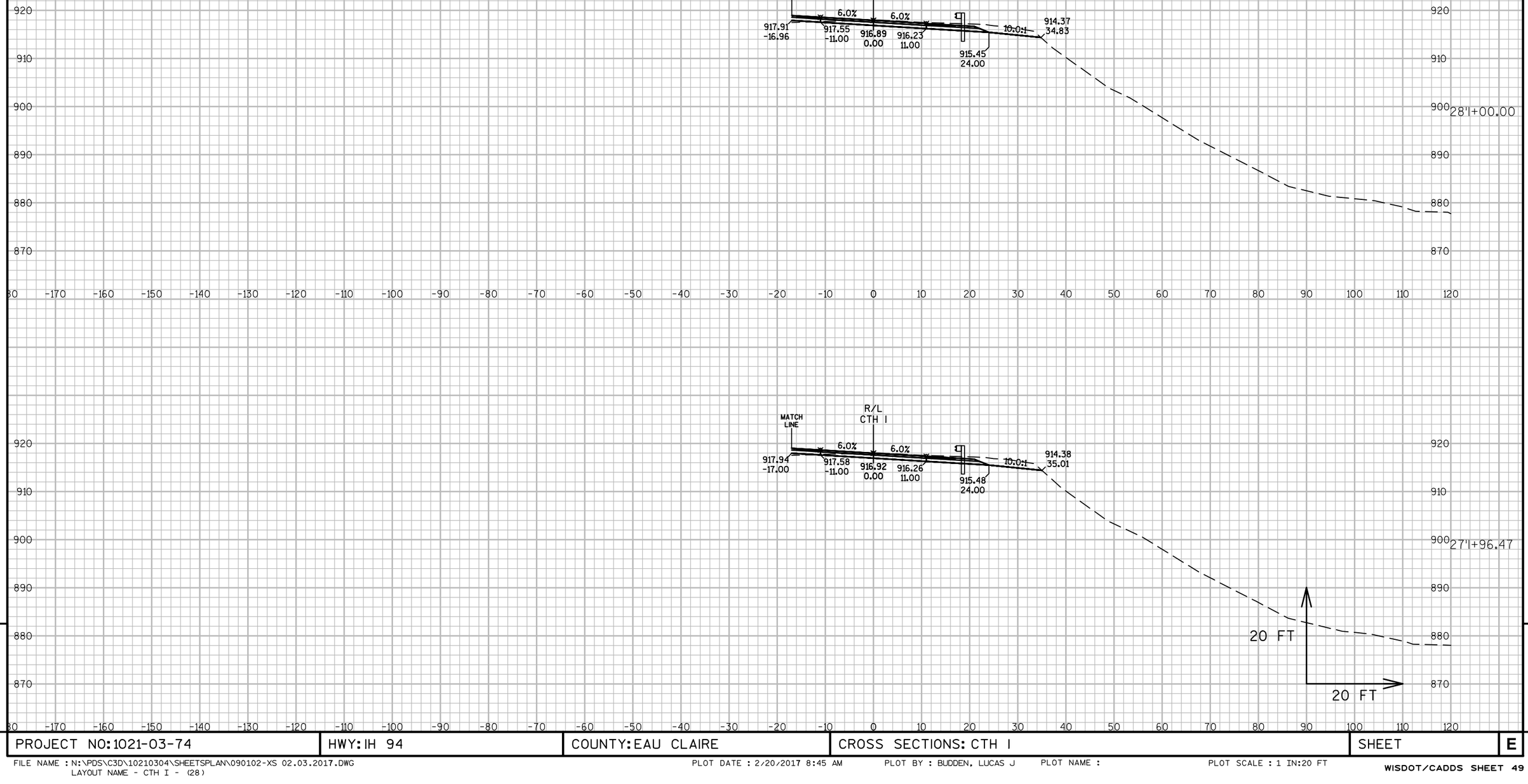
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (27)

PLOT DATE : 2/20/2017 8:45 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT





9

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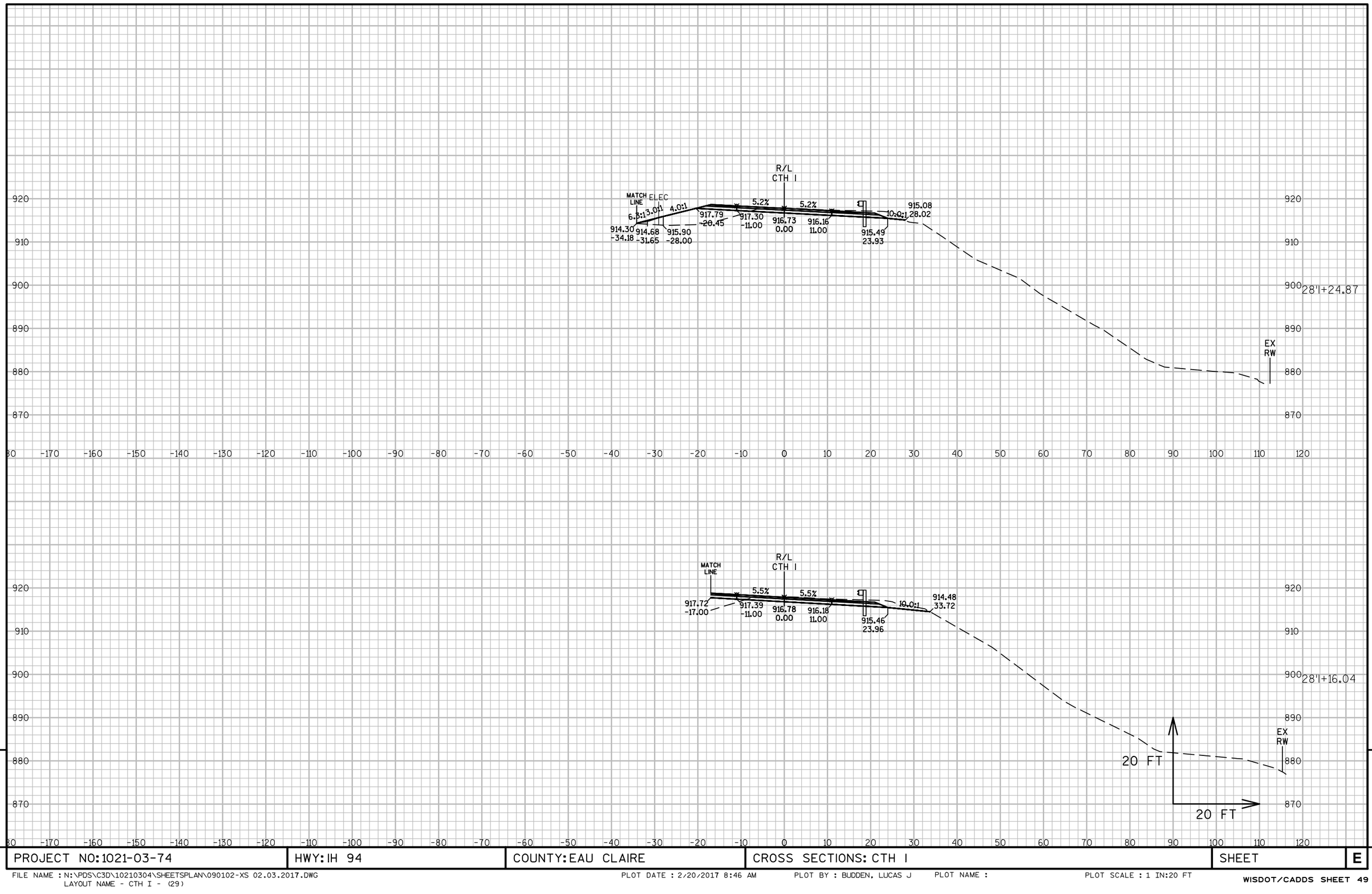
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

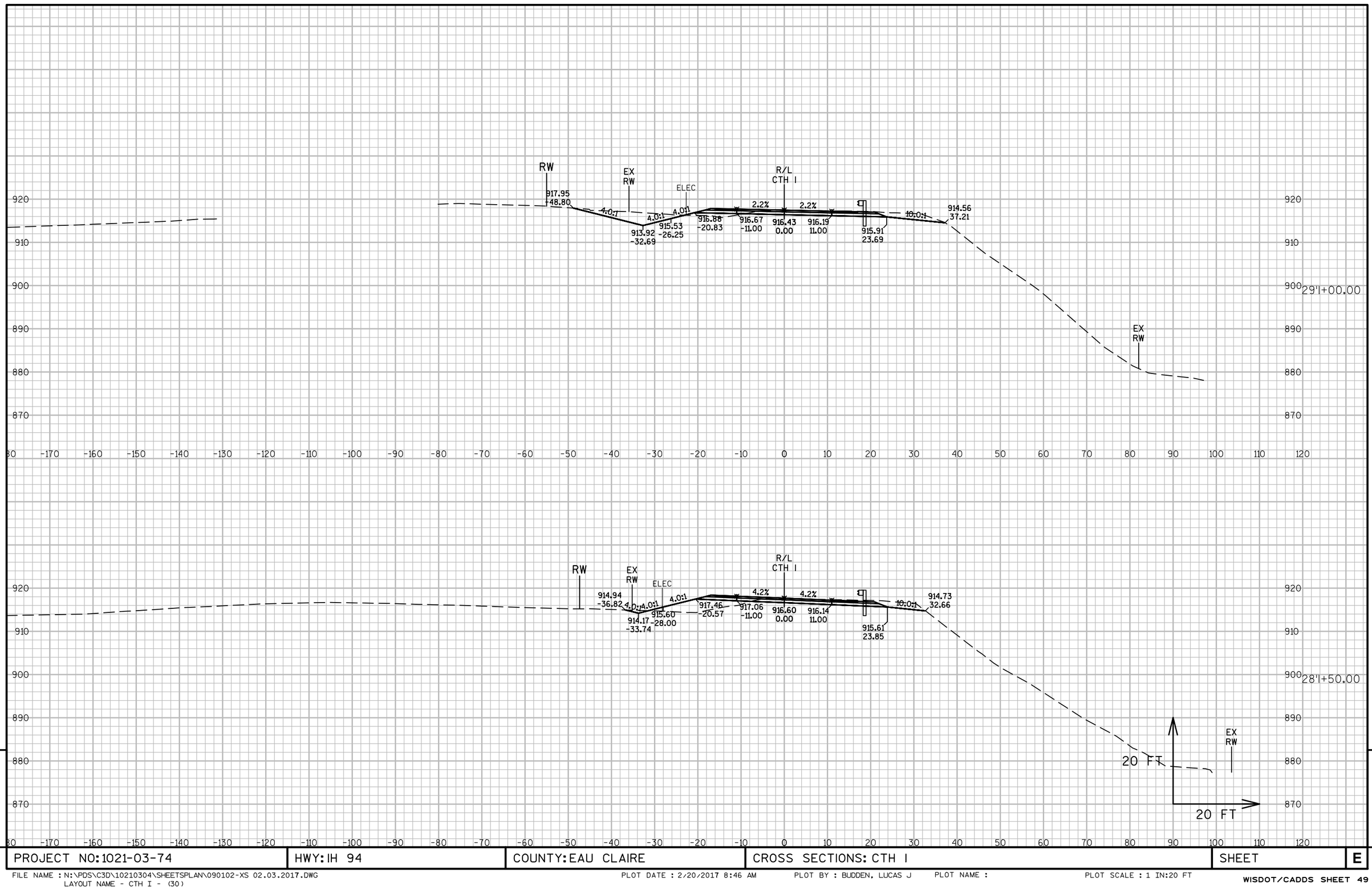
FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (28)
PLOT DATE : 2/20/2017 8:45 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (29)

PLOT DATE : 2/20/2017 8:46 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT

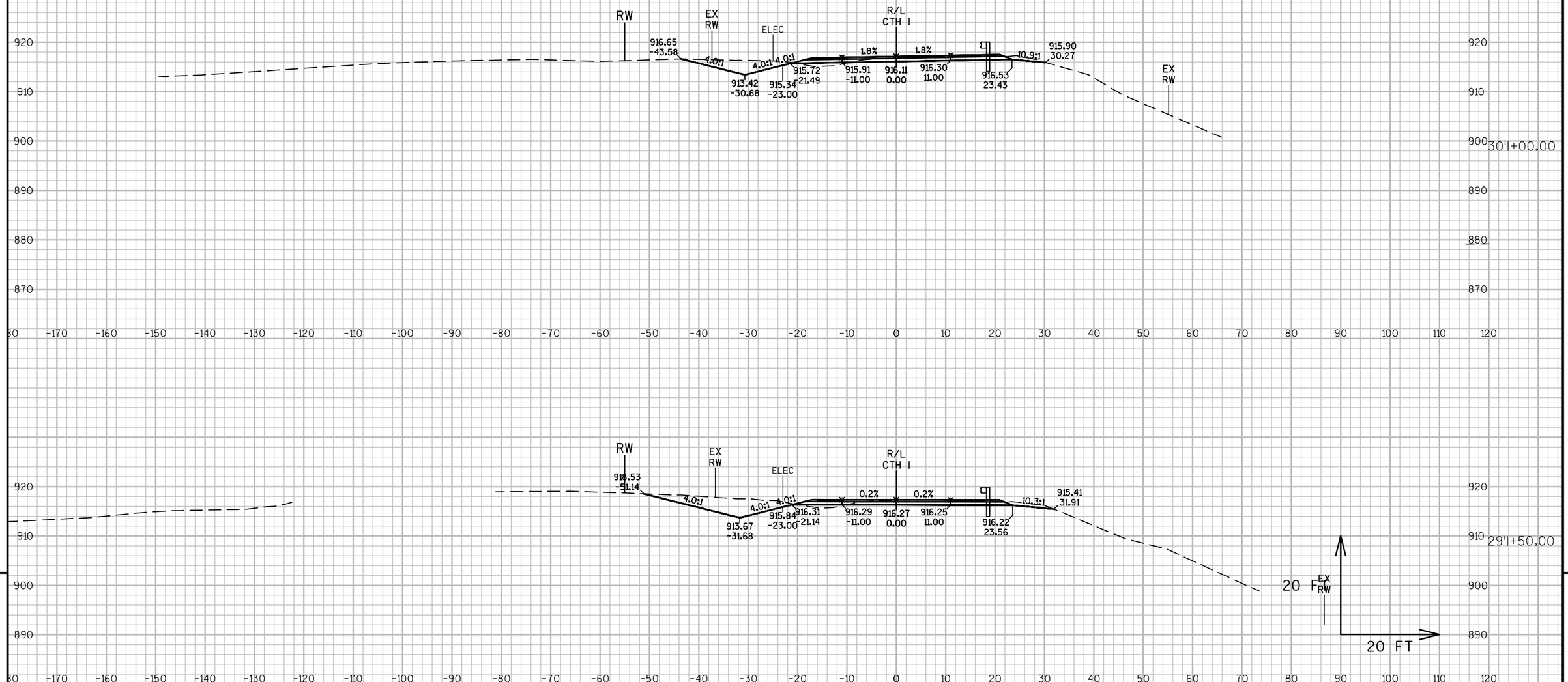


PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (30)

PLOT DATE : 2/20/2017 8:46 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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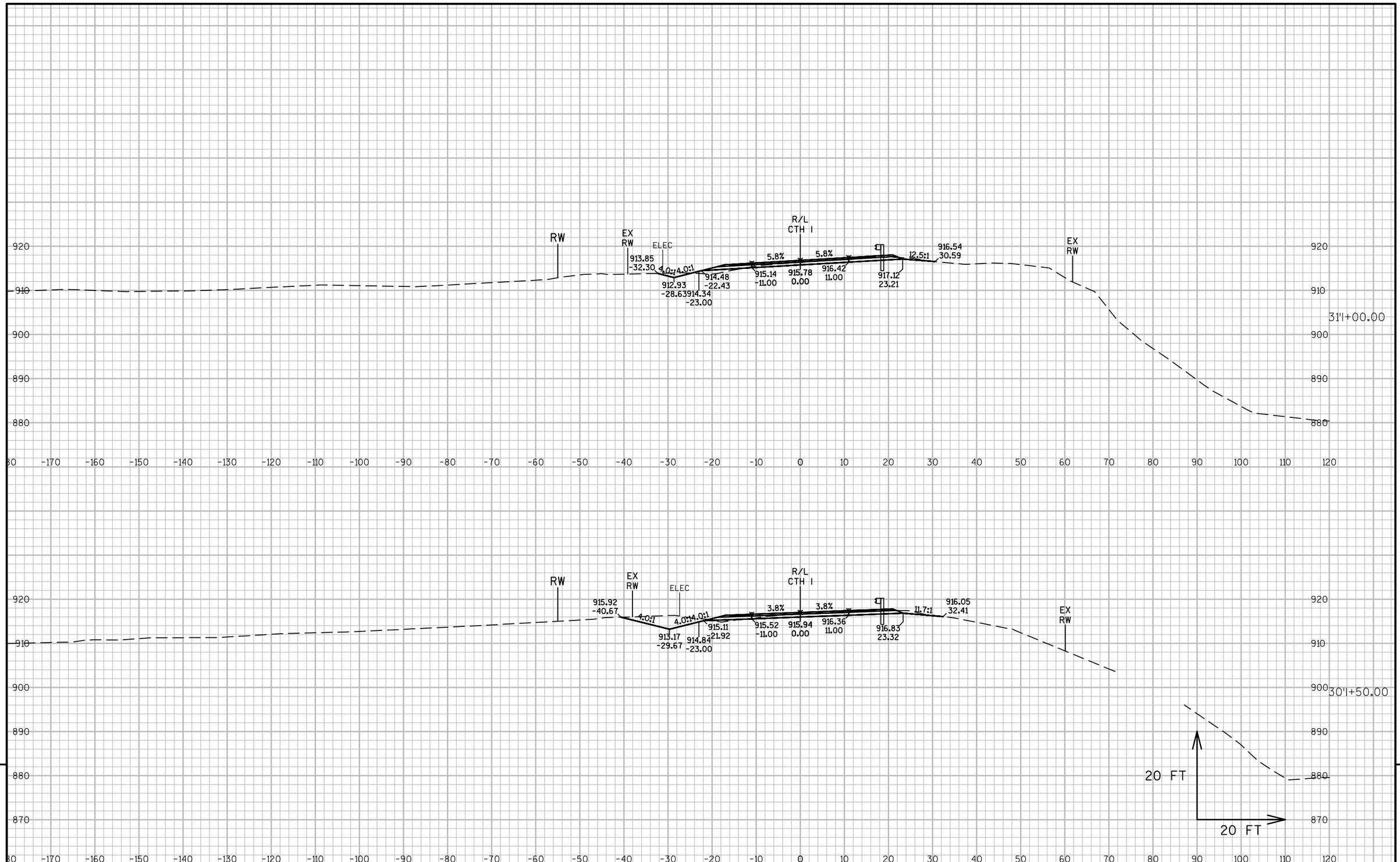
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (31)

PLOT DATE : 2/20/2017 8:46 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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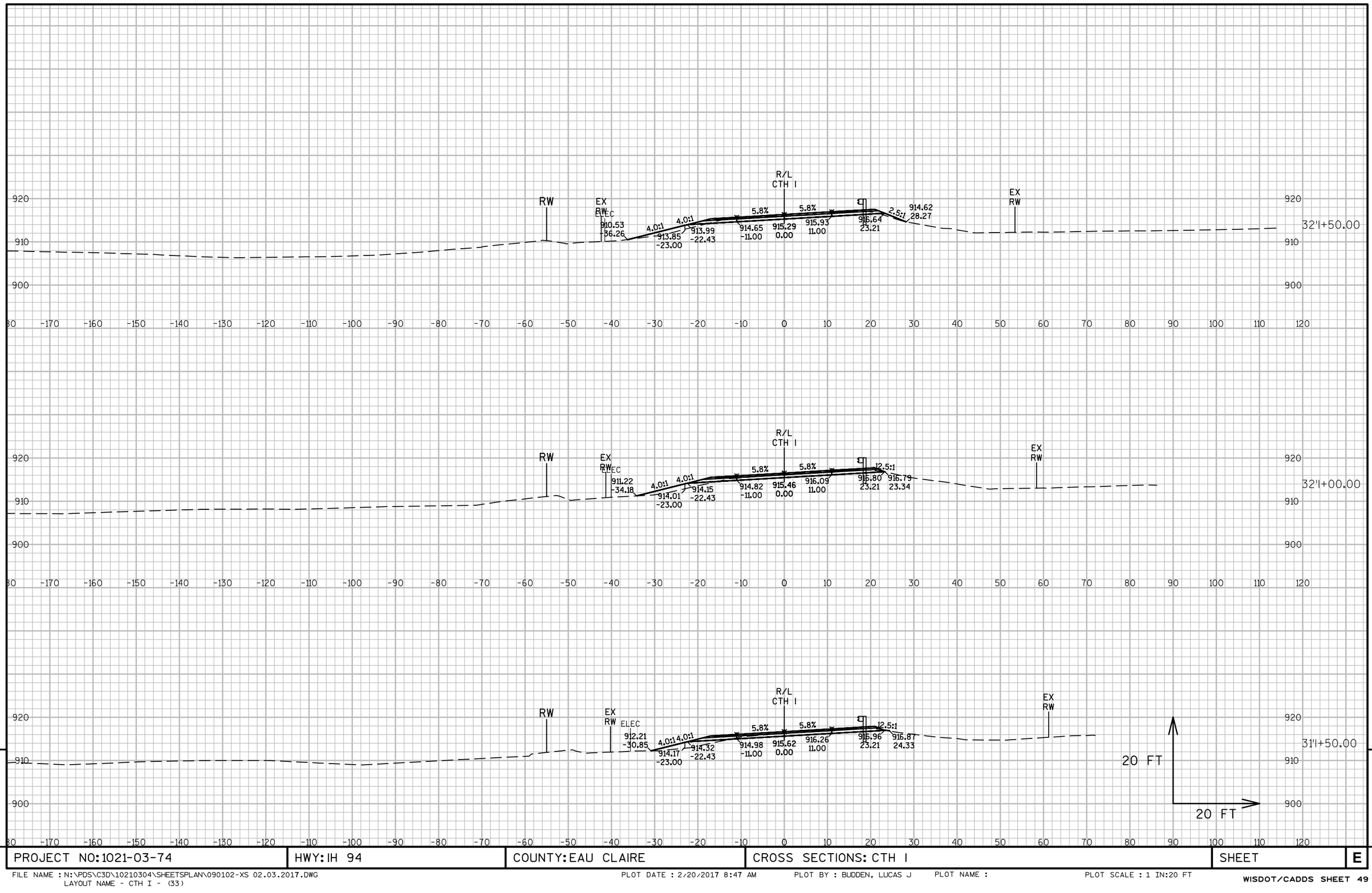
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (32)

PLOT DATE : 2/20/2017 8:46 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

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PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (33)

PLOT DATE : 2/20/2017 8:47 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT

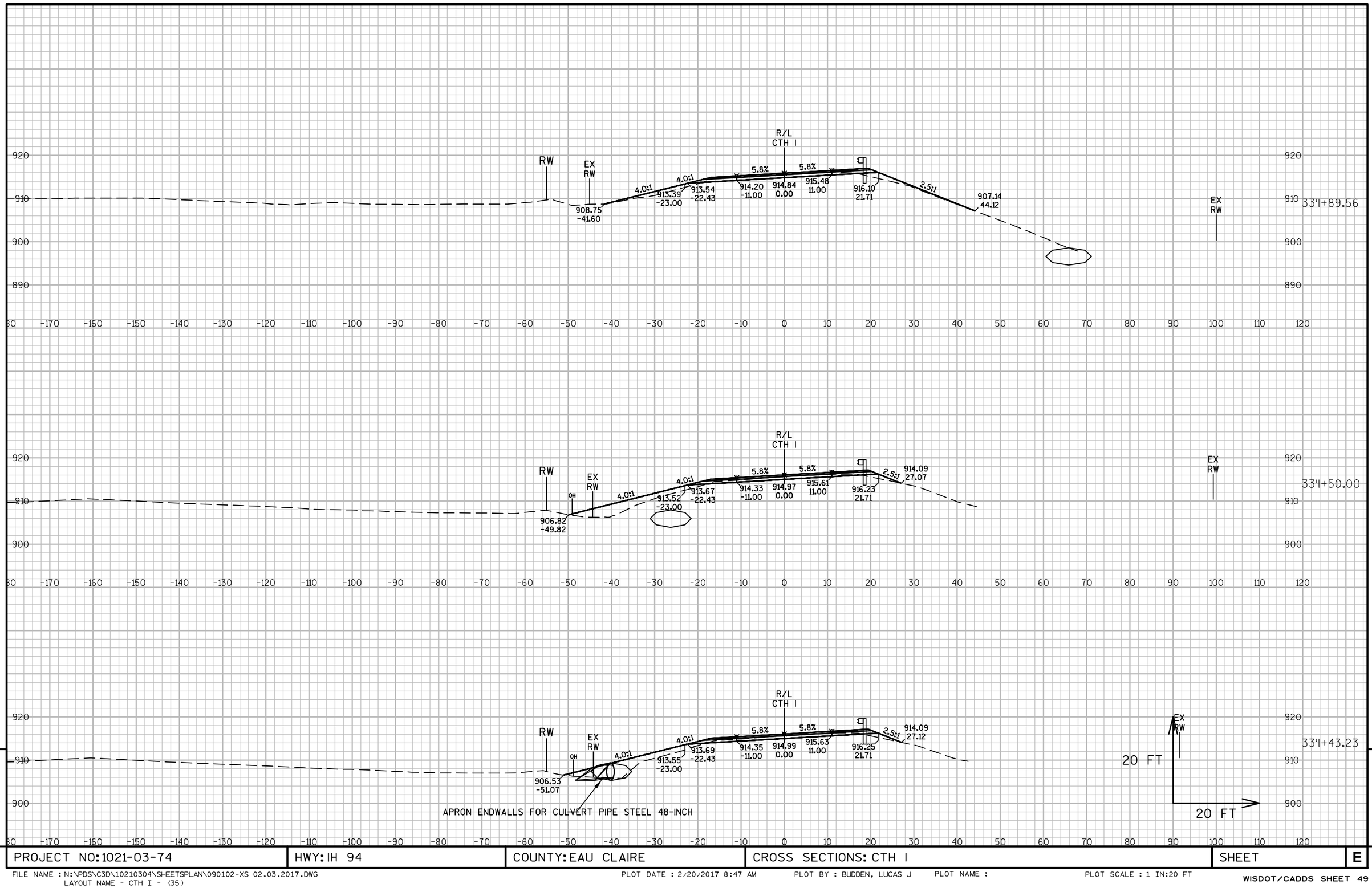
9

9

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (34)

PLOT DATE : 2/20/2017 8:47 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

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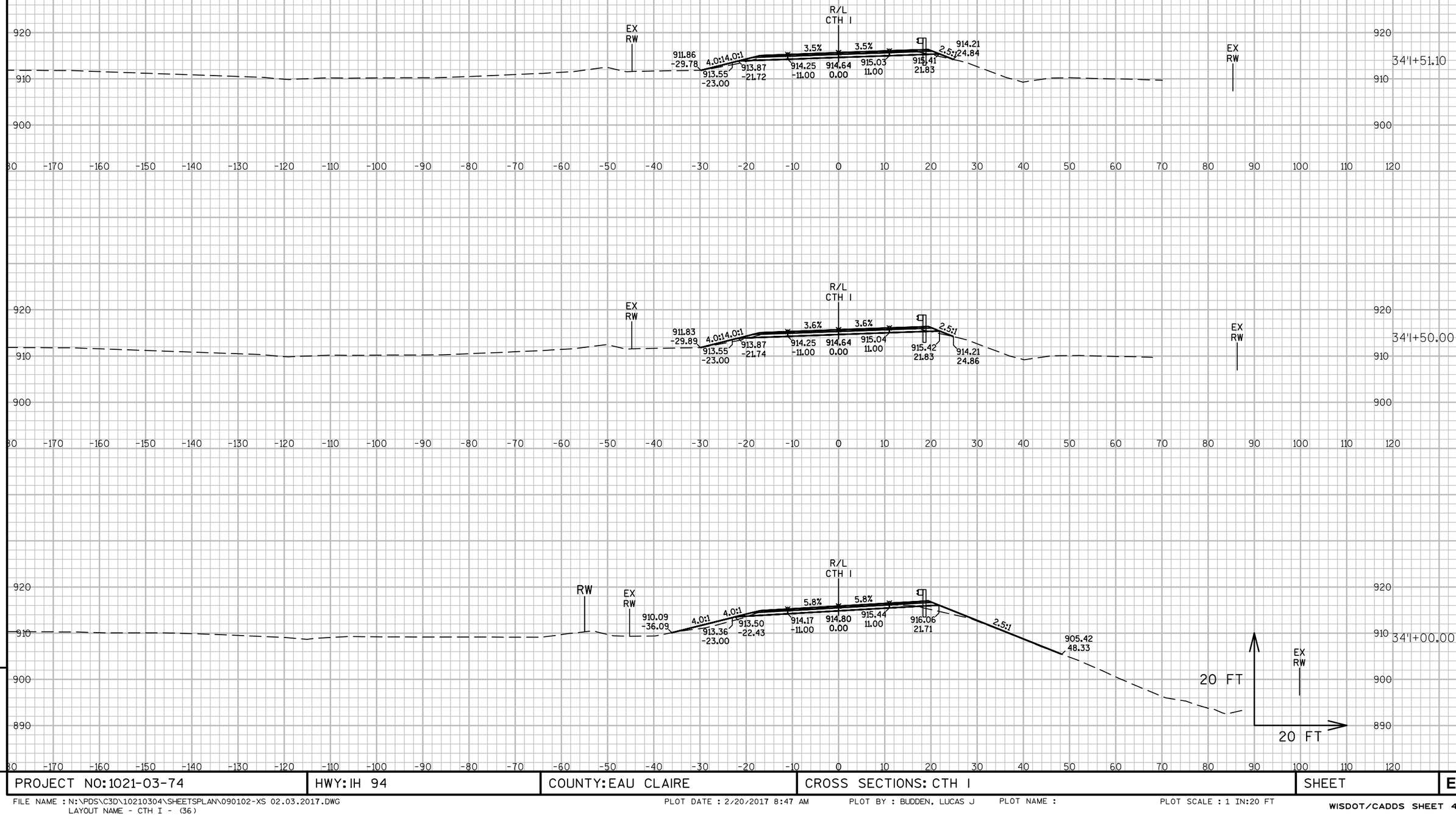
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (35)

PLOT DATE : 2/20/2017 8:47 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

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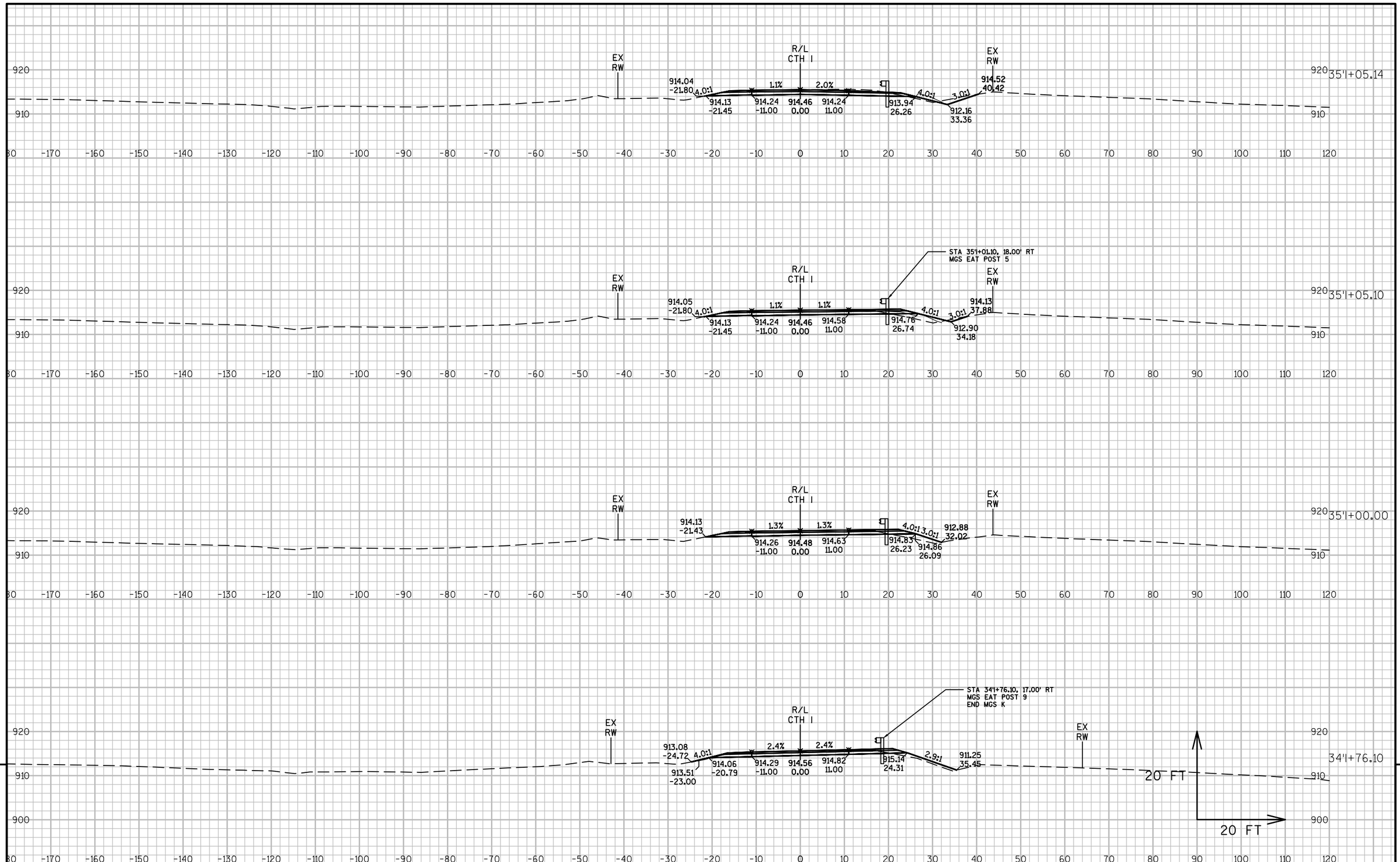
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (36)

PLOT DATE : 2/20/2017 8:47 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

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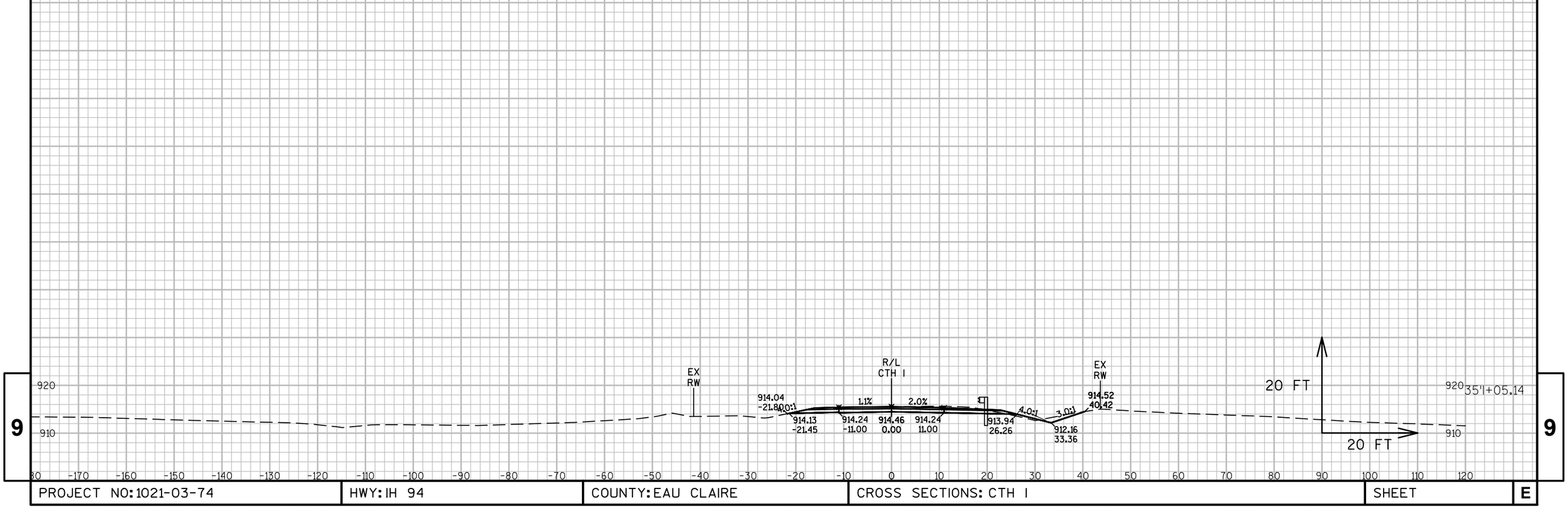
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (37)
PLOT DATE : 2/20/2017 8:47 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



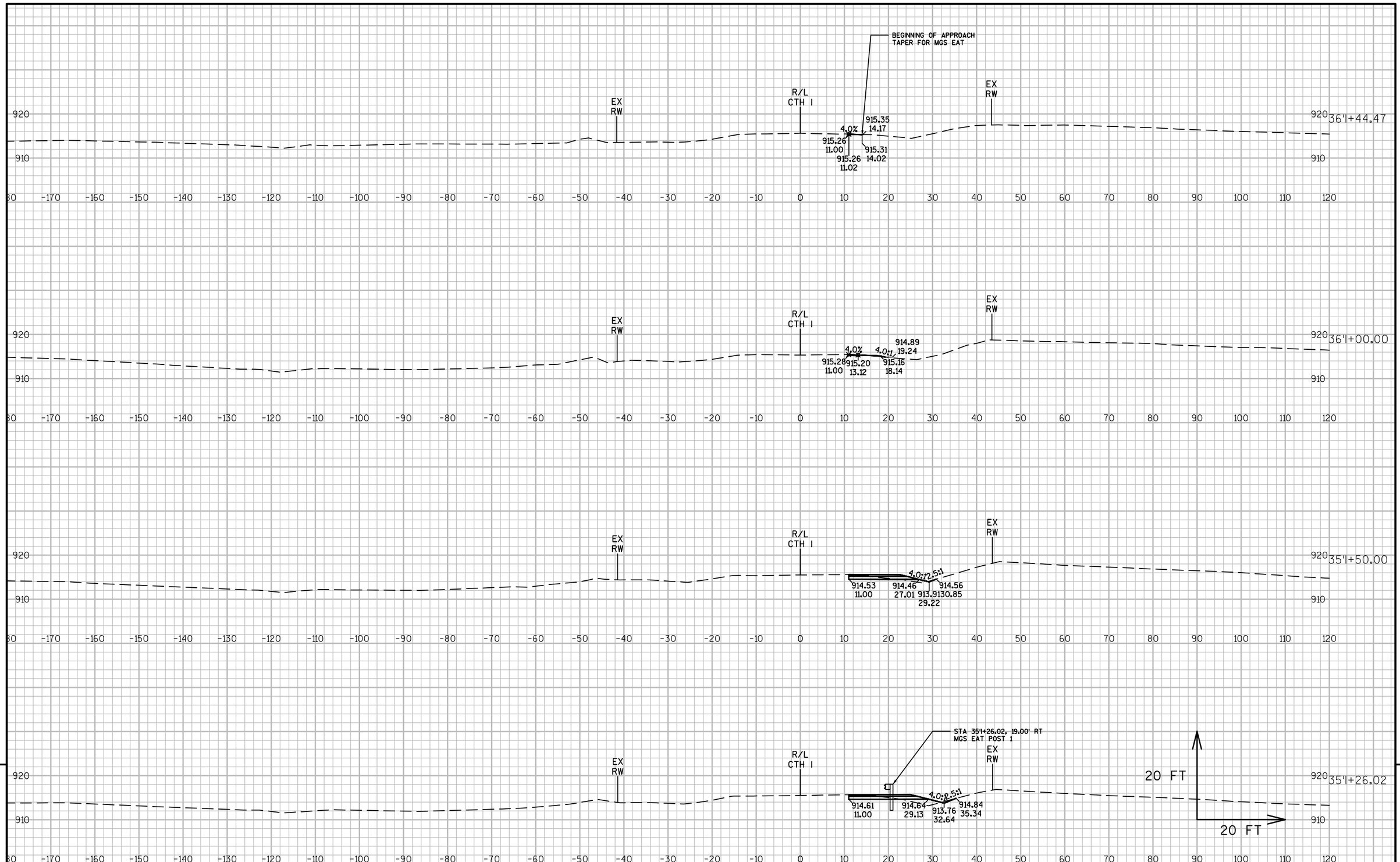
9

9

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (38)

PLOT DATE : 2/20/2017 8:48 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



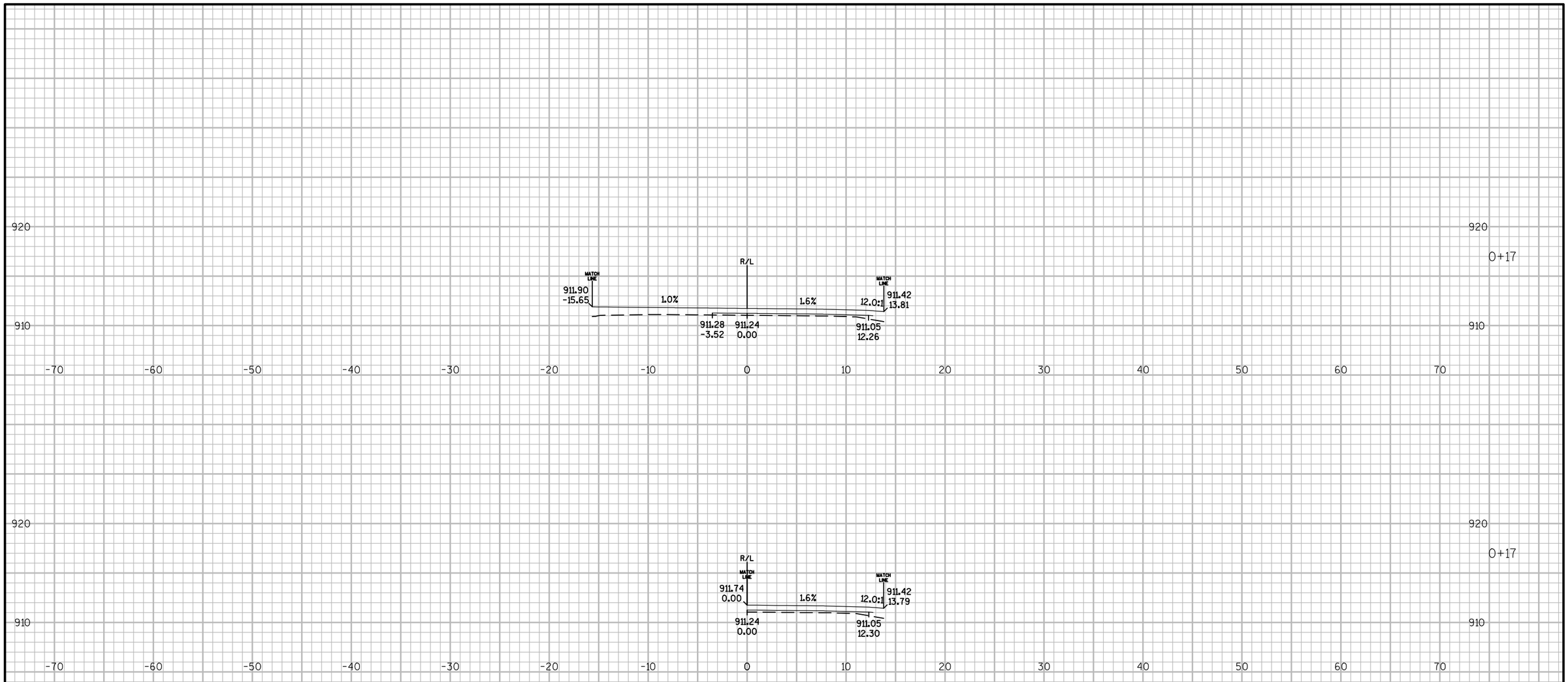
9

9

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS 02.03.2017.DWG
LAYOUT NAME - CTH I - (39)

PLOT DATE : 2/20/2017 8:48 AM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



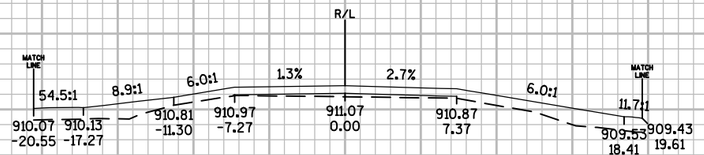
9

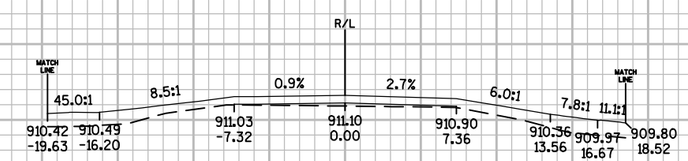
9

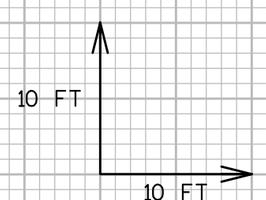
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE1'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 14+25 RT - (01)

PLOT DATE : 3/9/2017 5:49 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1







0+27

0+25

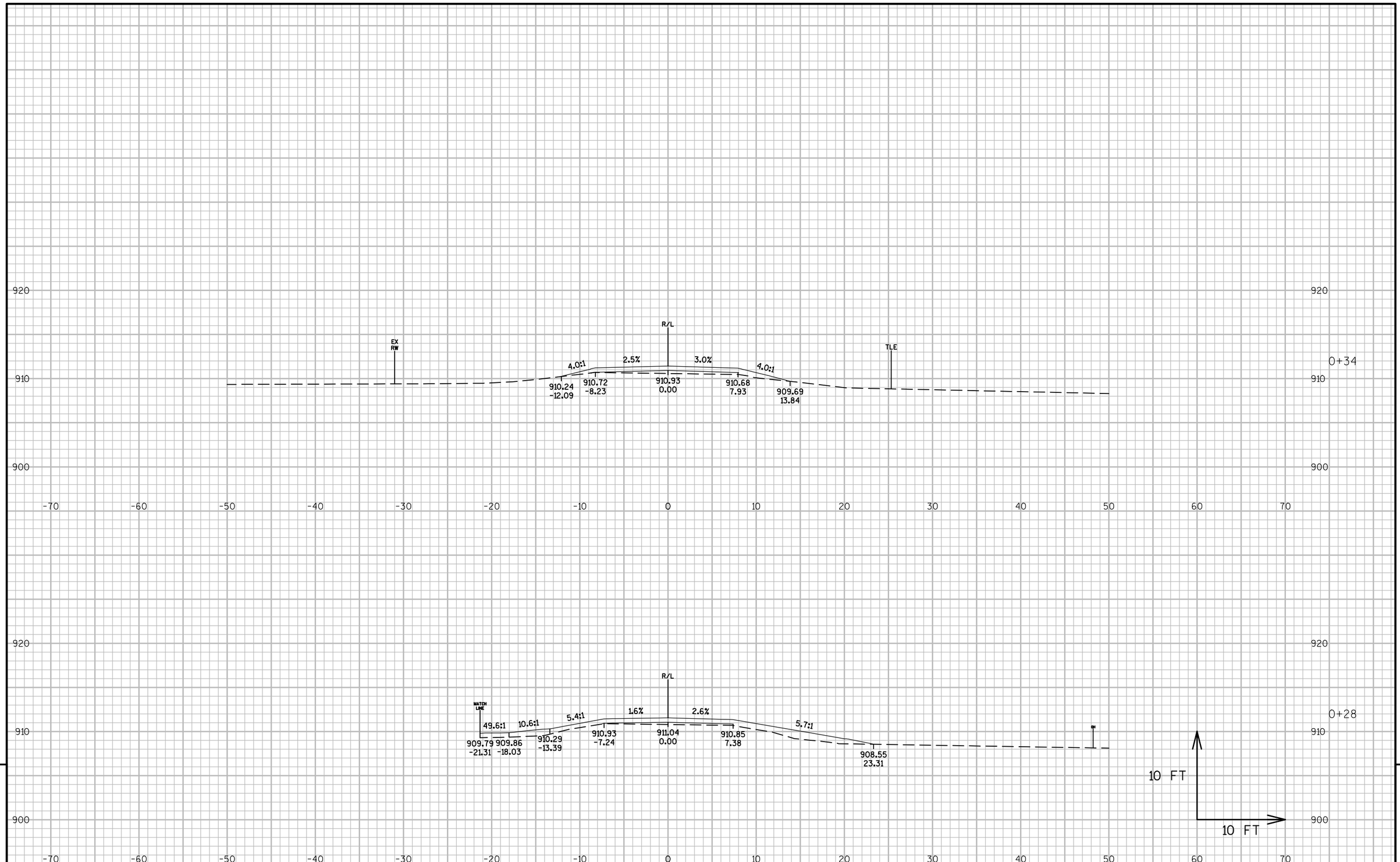
9

9

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE1'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 14+25 RT - (02)

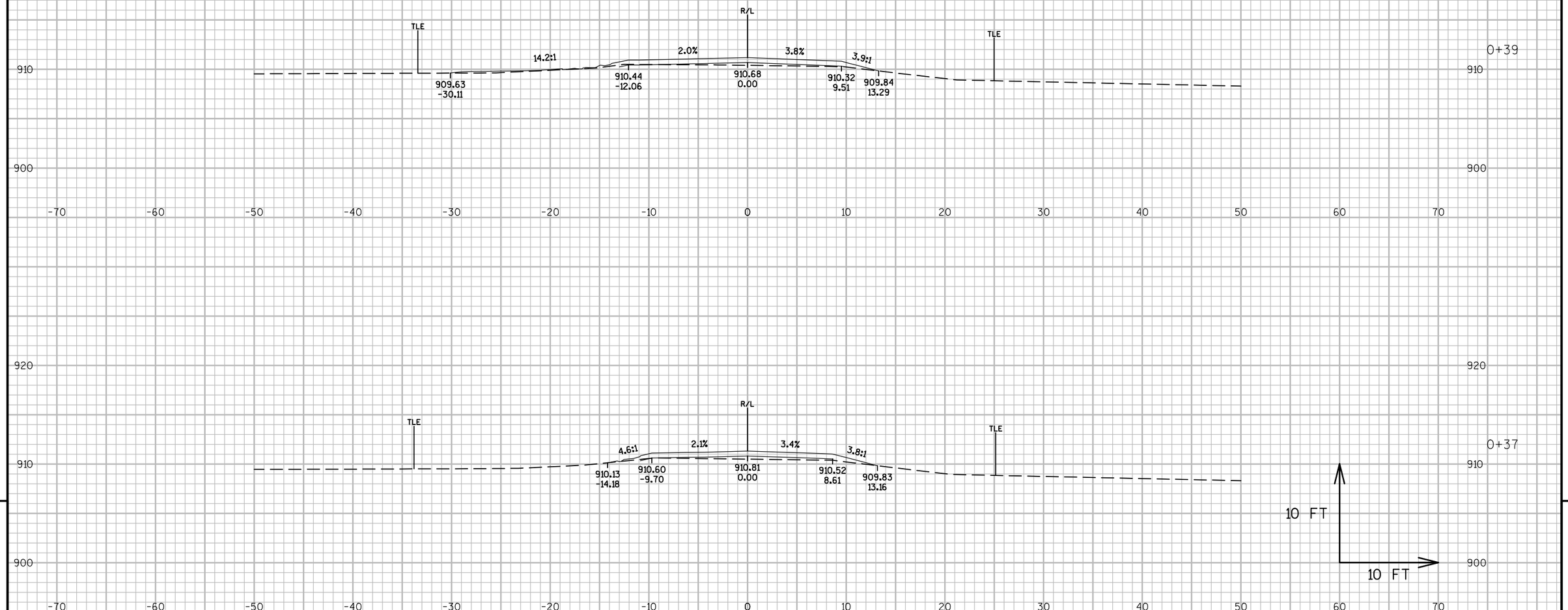
PLOT DATE : 3/9/2017 5:49 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE1'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 14+25 RT - (03)

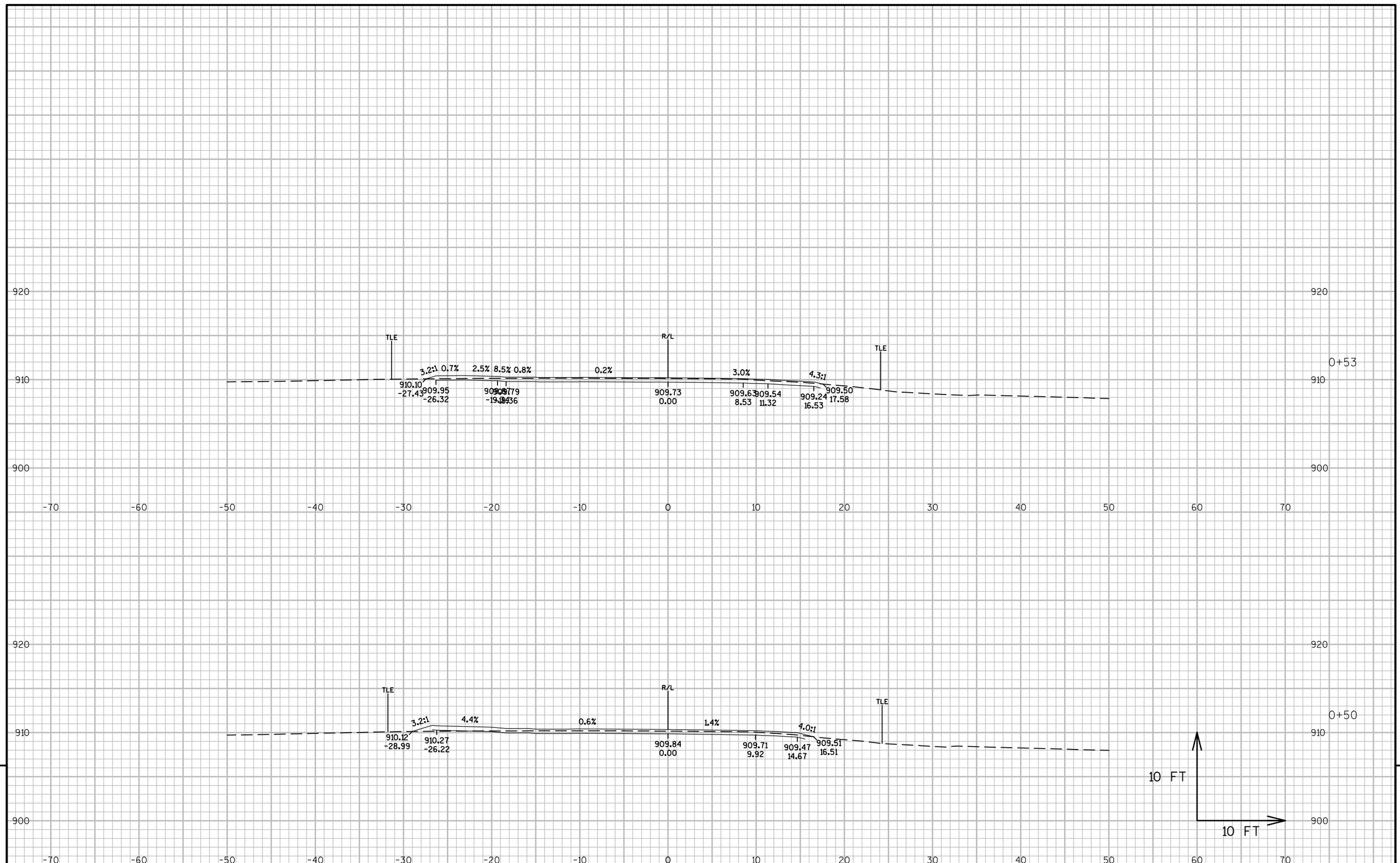
PLOT DATE : 3/9/2017 5:49 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE1'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 14+25 RT - (04)

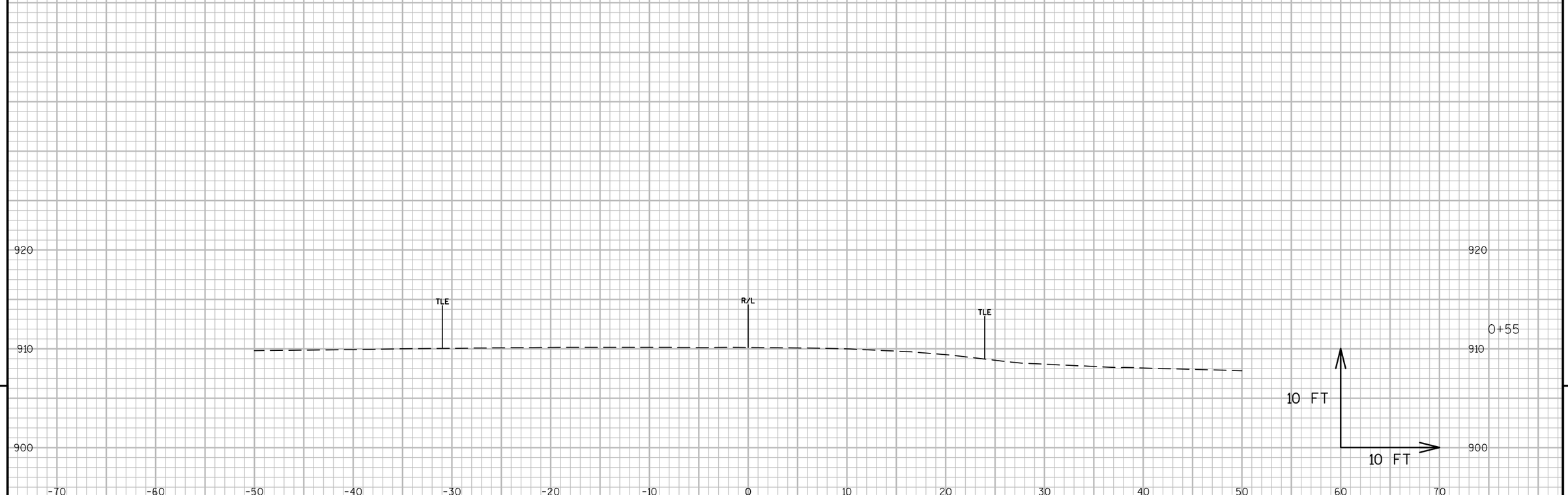
PLOT DATE : 3/9/2017 5:49 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



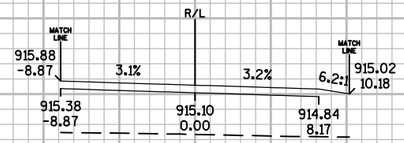
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE1'	SHEET	E

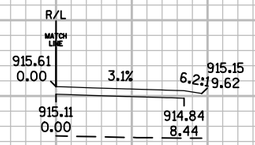
FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 14+25 RT - (05)

PLOT DATE : 3/9/2017 5:49 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE1'	SHEET	E





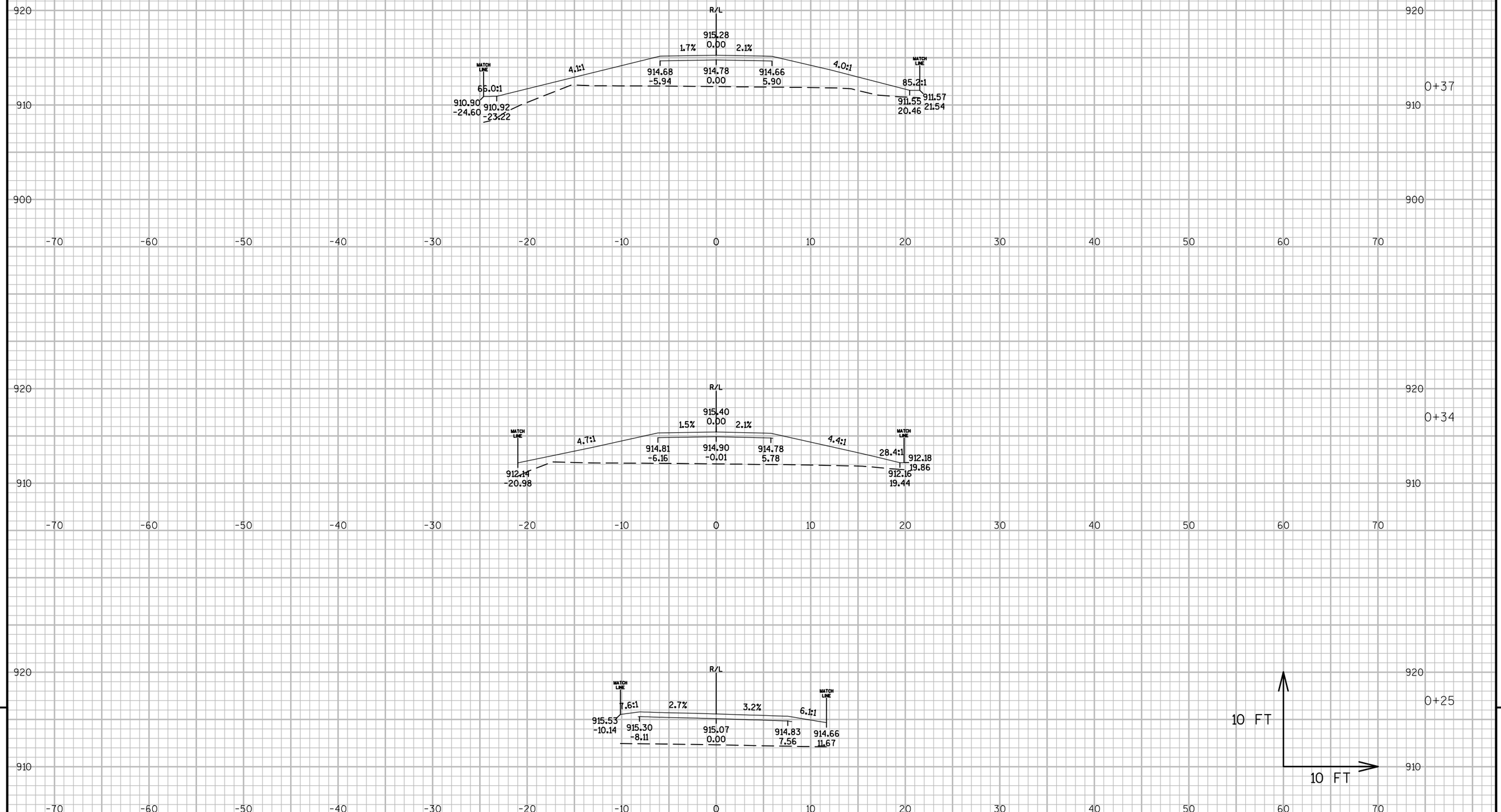
9

9

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE2'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 16+15 RT - (01)

PLOT DATE : 3/9/2017 5:49 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



9

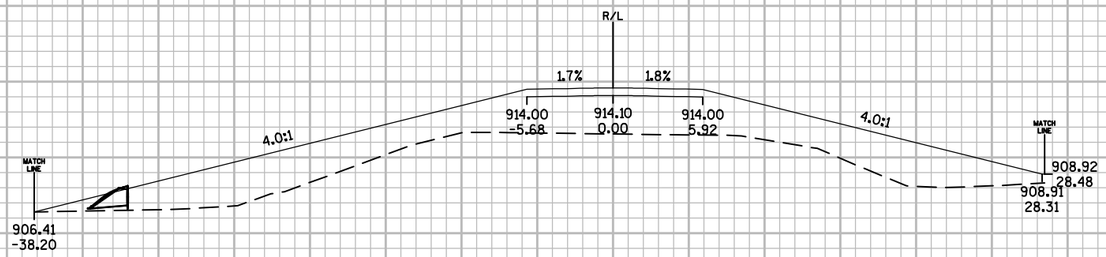
9

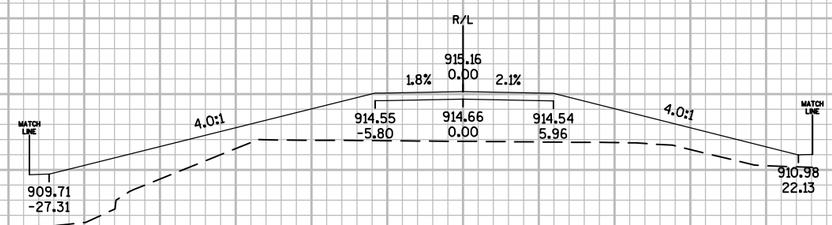
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE2'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 16+15 RT - (02)

PLOT DATE : 3/9/2017 5:49 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49

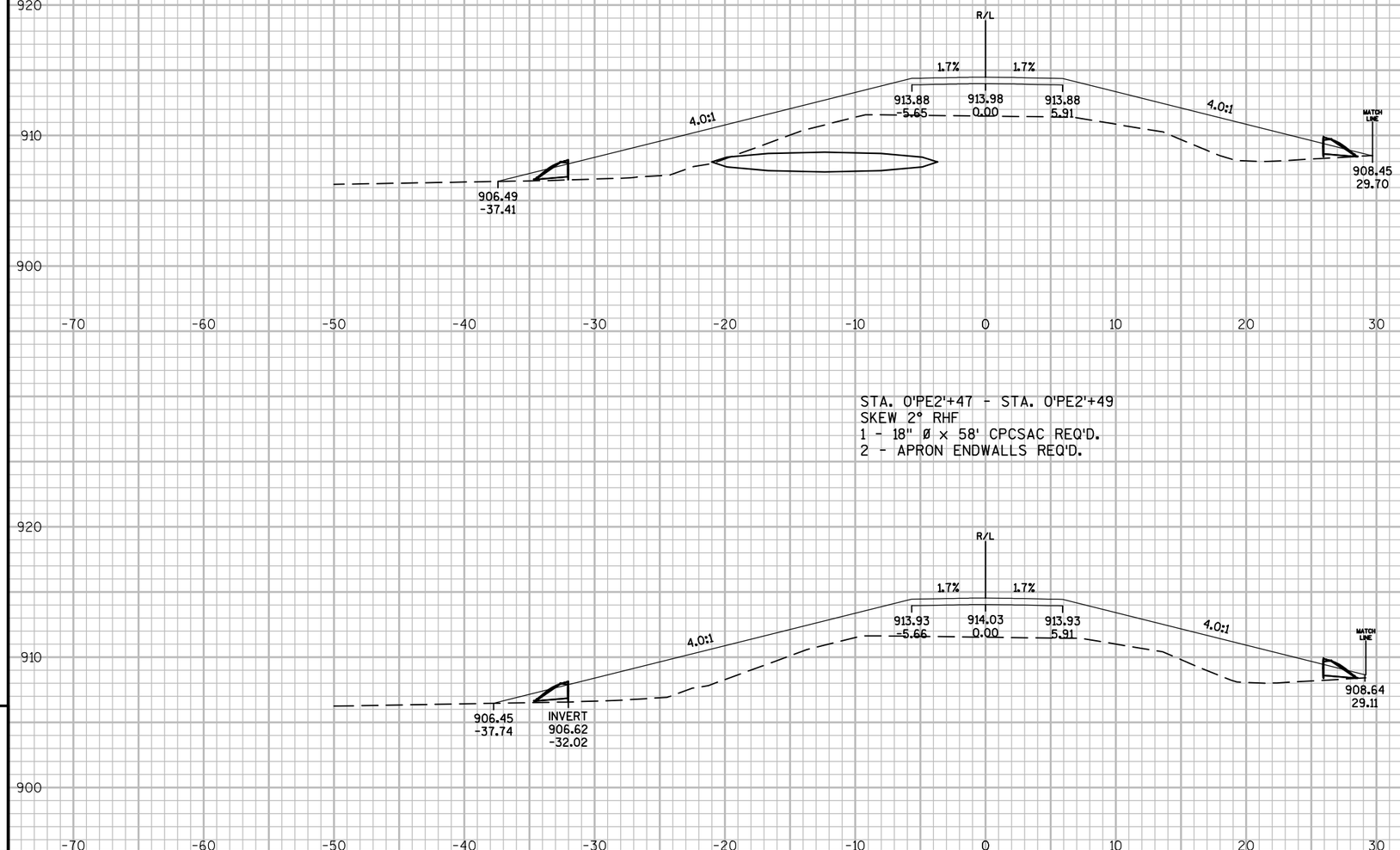




PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE2'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 16+15 RT - (03)

PLOT DATE : 3/9/2017 5:50 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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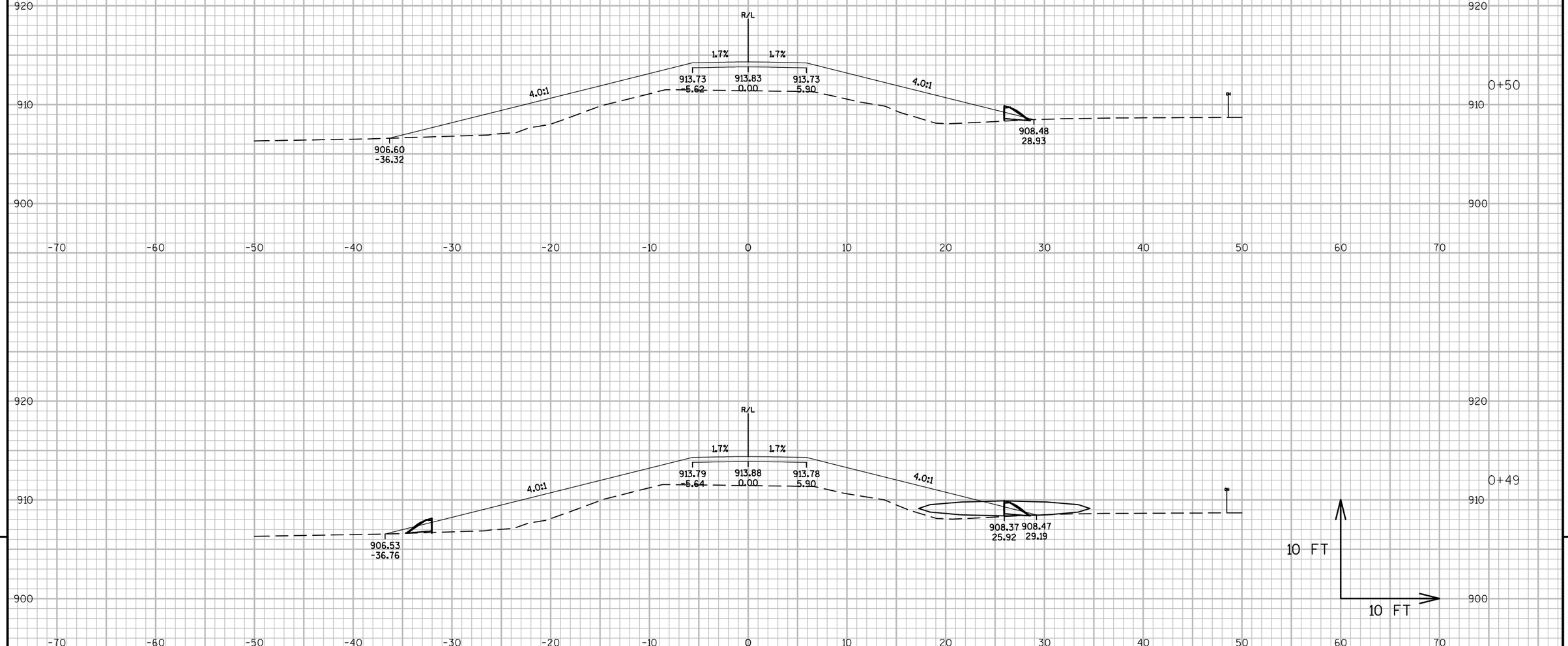
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE2'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 16+15 RT - (04)

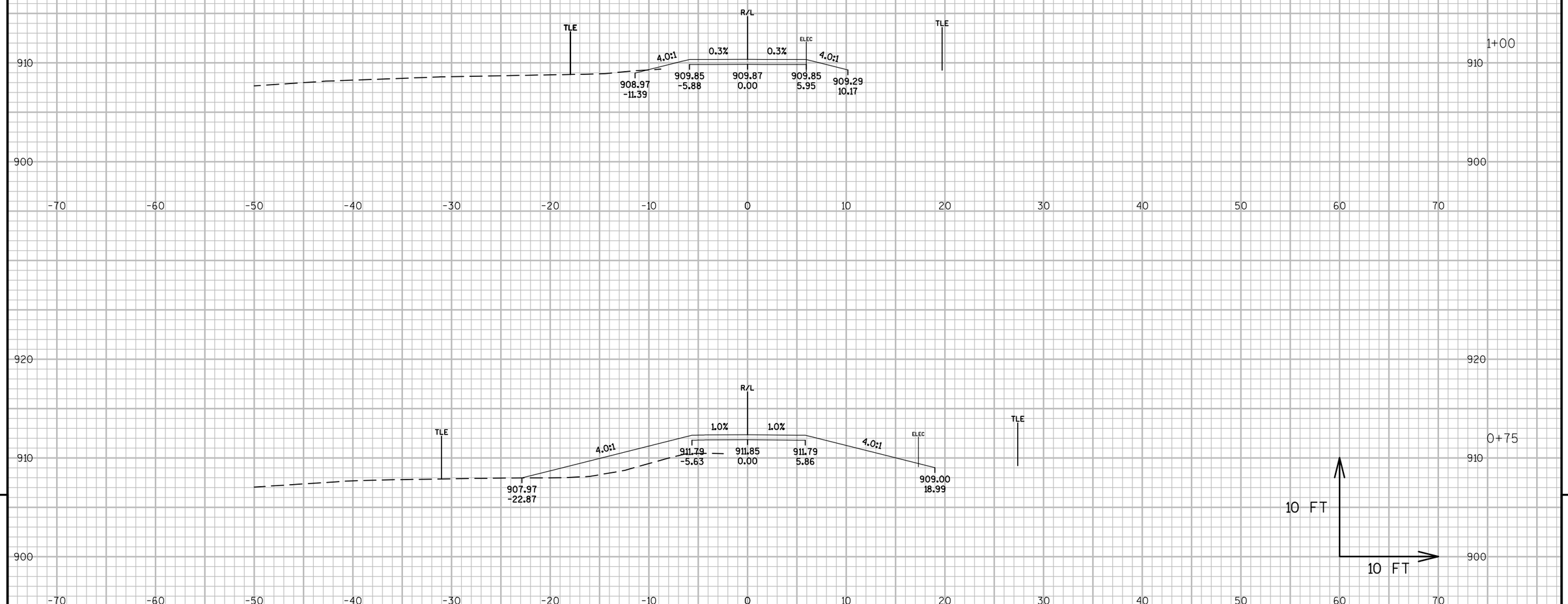
PLOT DATE : 3/9/2017 5:50 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE2'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 16+15 RT - (05)

PLOT DATE : 3/9/2017 5:50 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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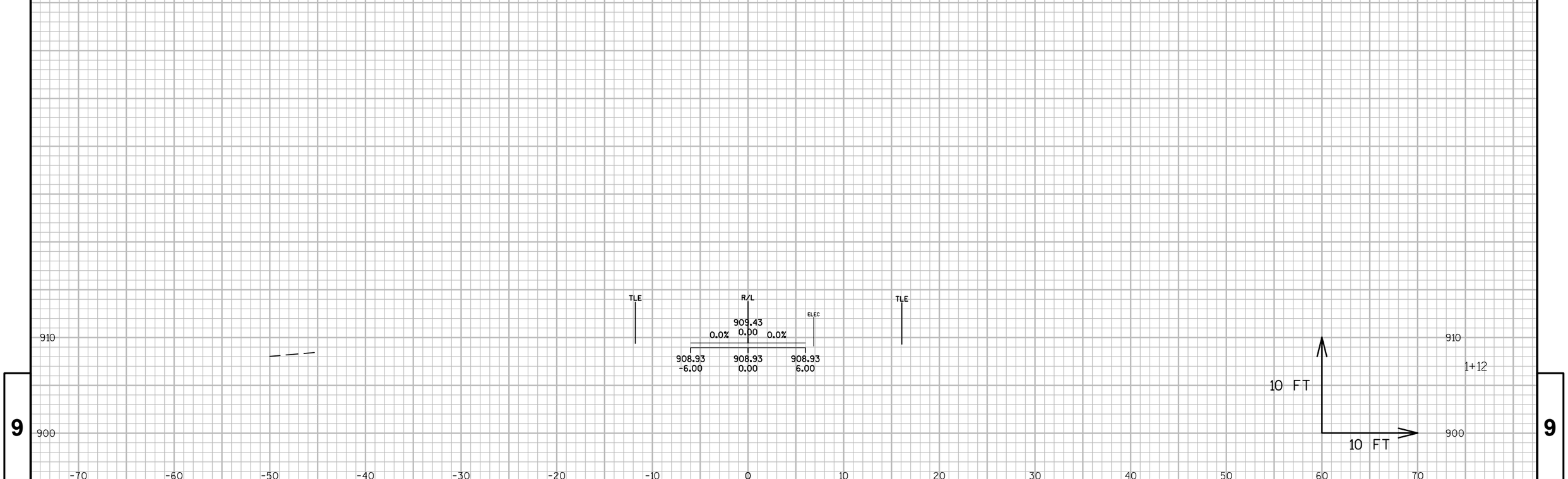
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE2'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 16+15 RT - (06)

PLOT DATE : 3/9/2017 5:50 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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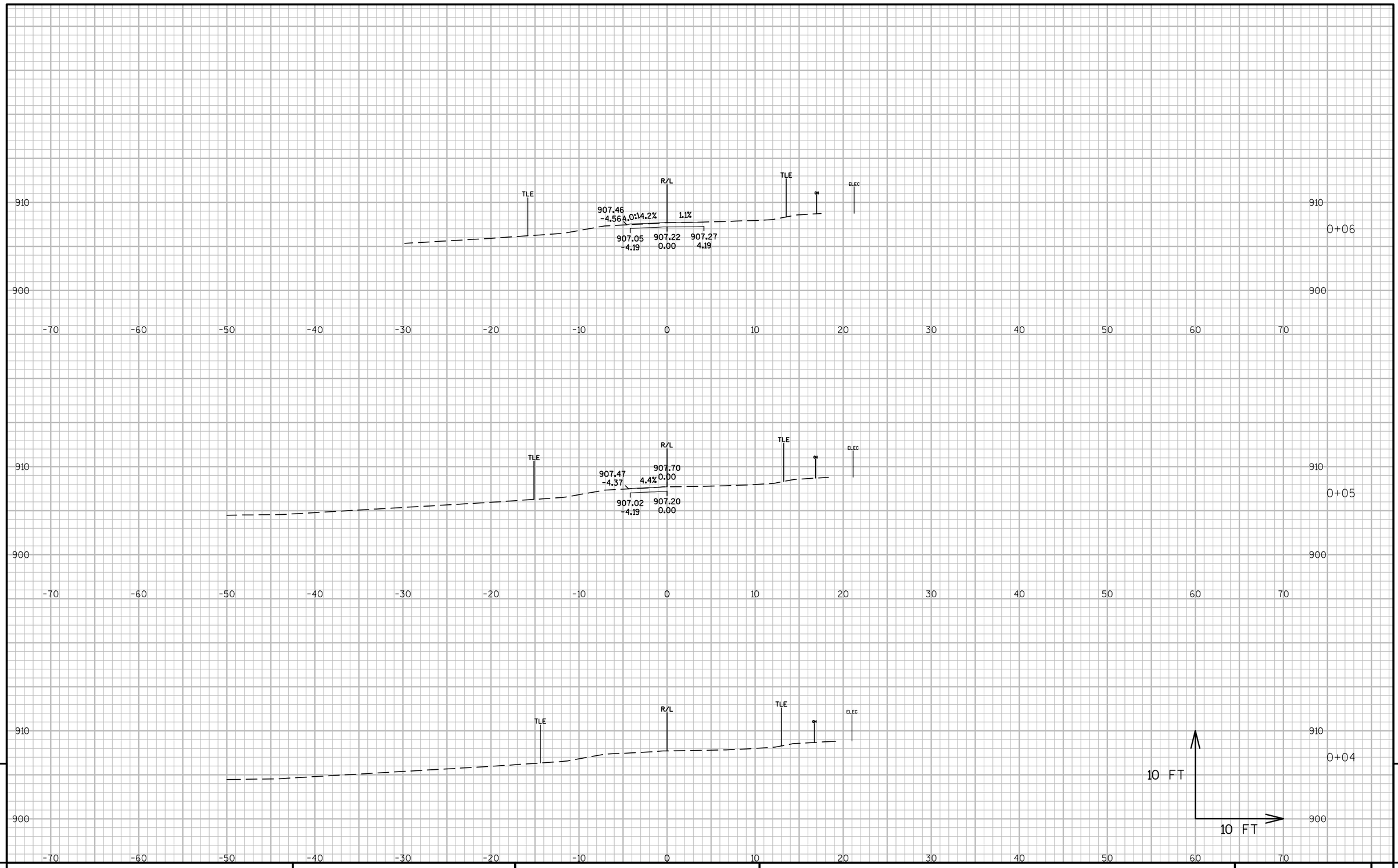
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE2'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 16+15 RT - (07)

PLOT DATE : 3/9/2017 5:50 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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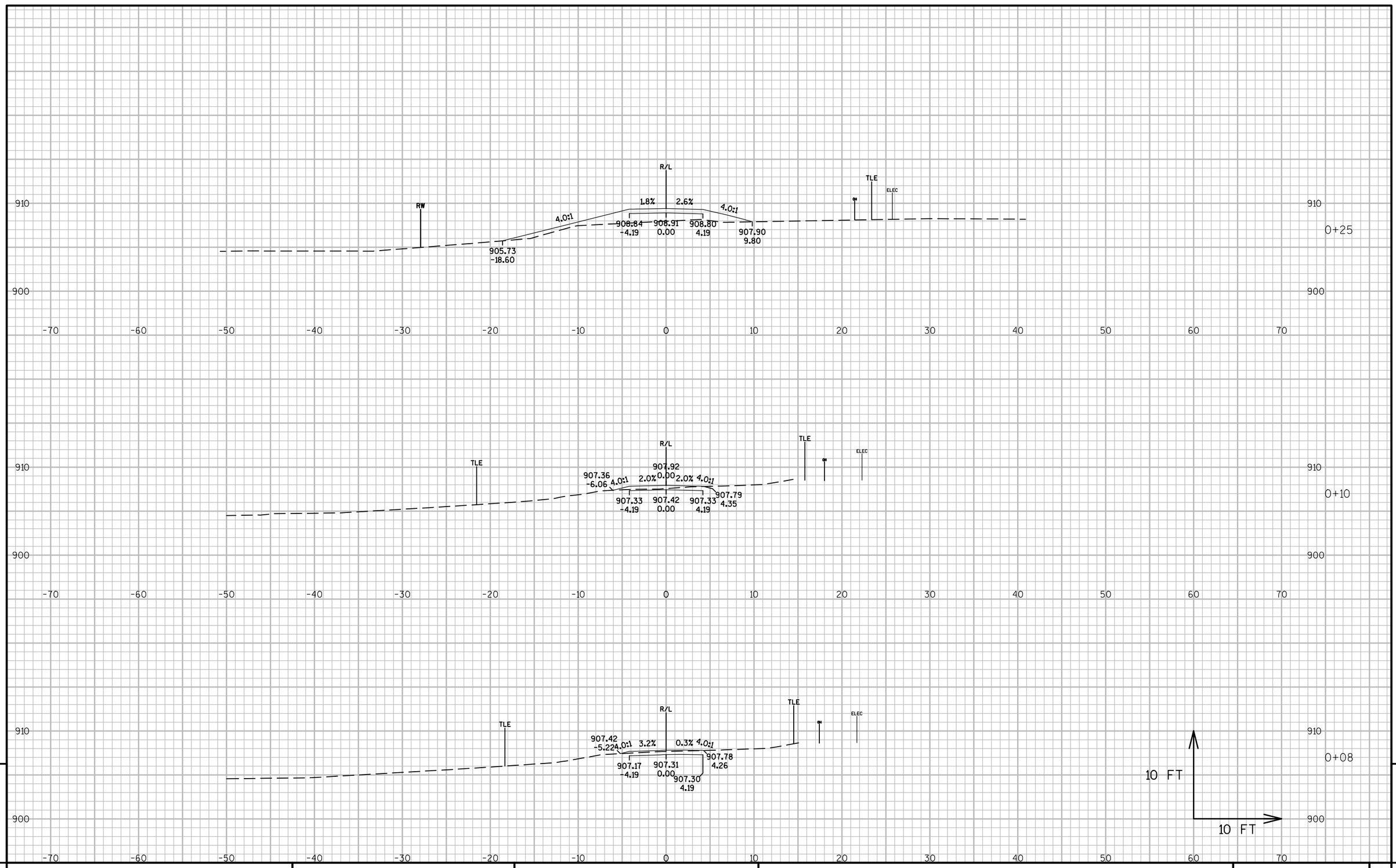
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE3'	SHEET	E

9

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 16+30 LT - (01)

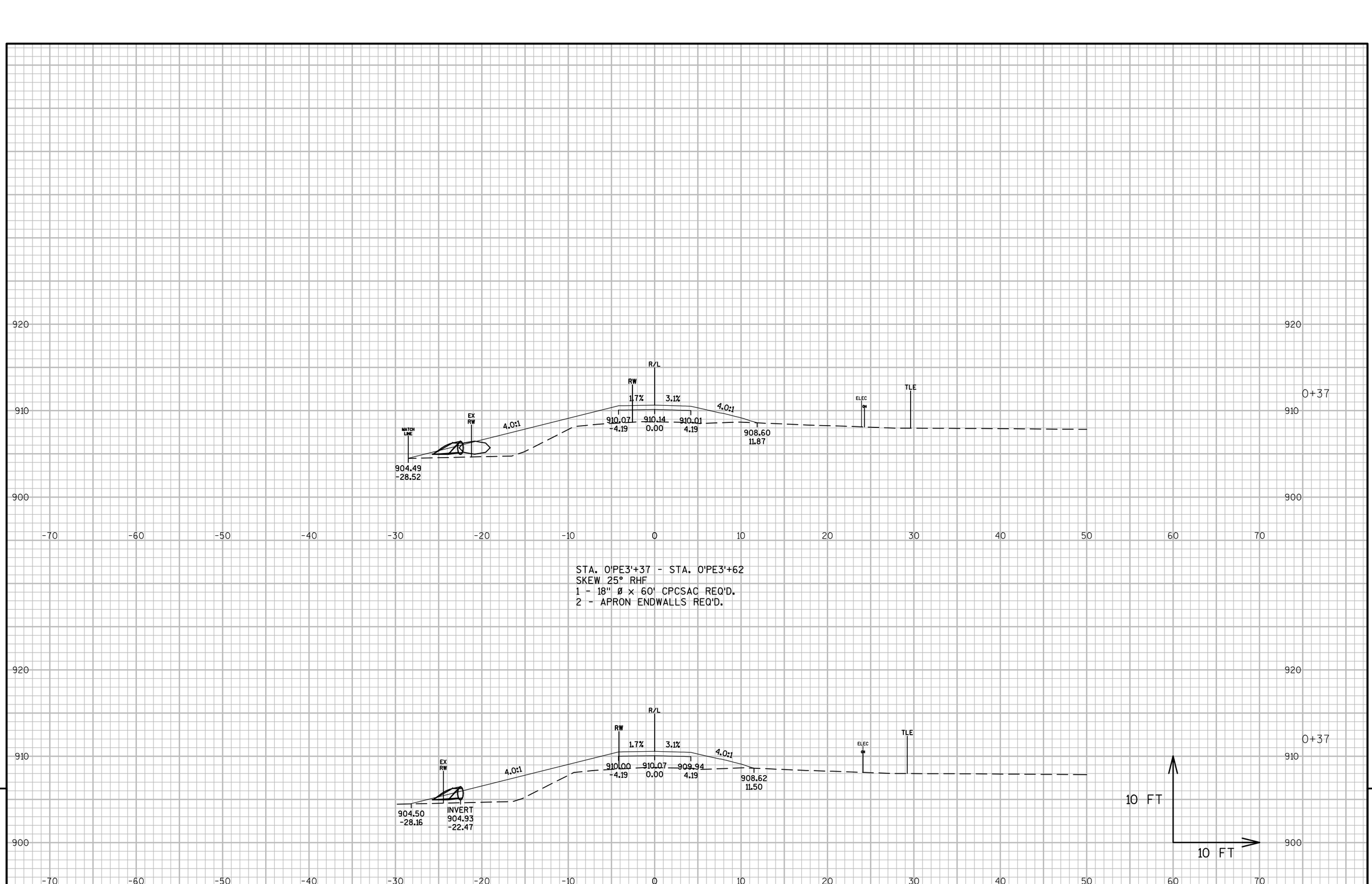
PLOT DATE : 3/9/2017 5:50 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE3'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 16+30 LT - (02)

PLOT DATE : 3/9/2017 5:50 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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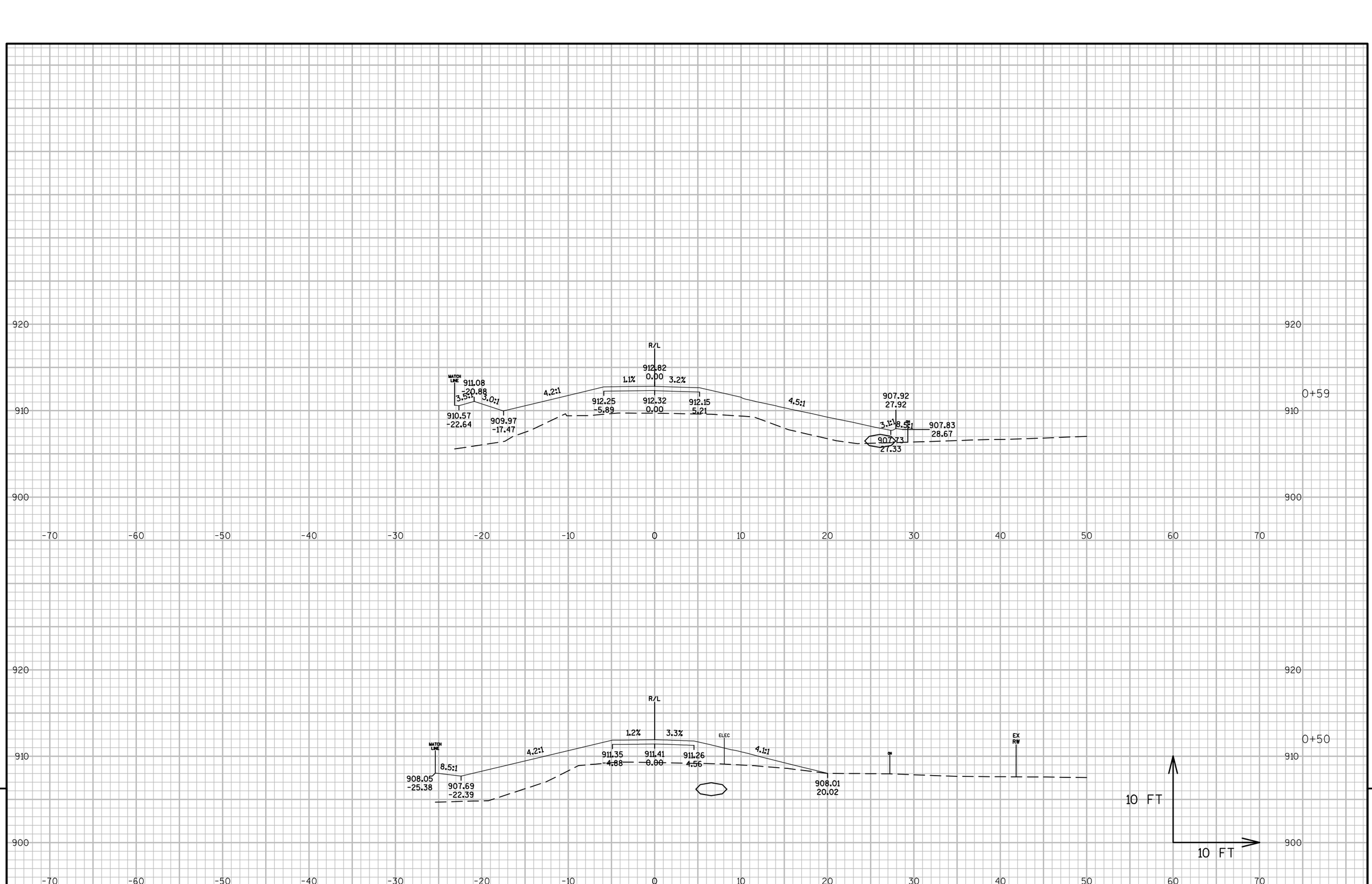
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE3'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 16+30 LT - (03)

PLOT DATE : 3/9/2017 5:51 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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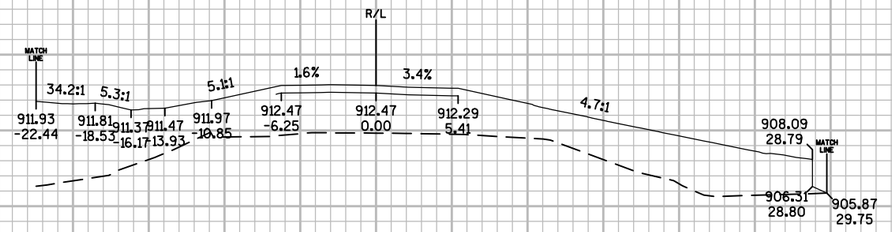
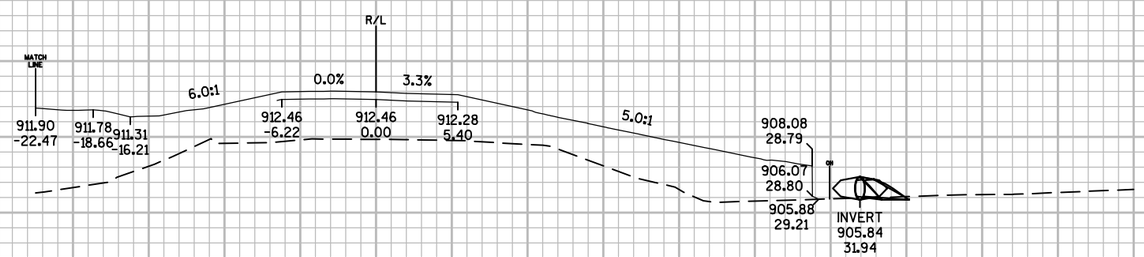
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE3'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 16+30 LT - (04)

PLOT DATE : 3/9/2017 5:51 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1





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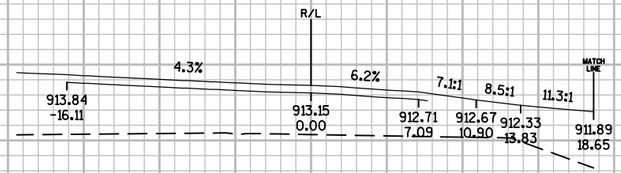
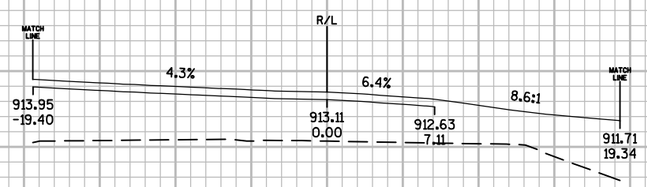
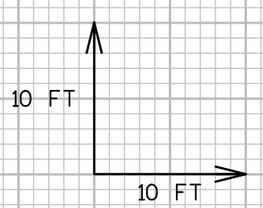
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE3'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 16+30 LT - (05)

PLOT DATE : 3/9/2017 5:51 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



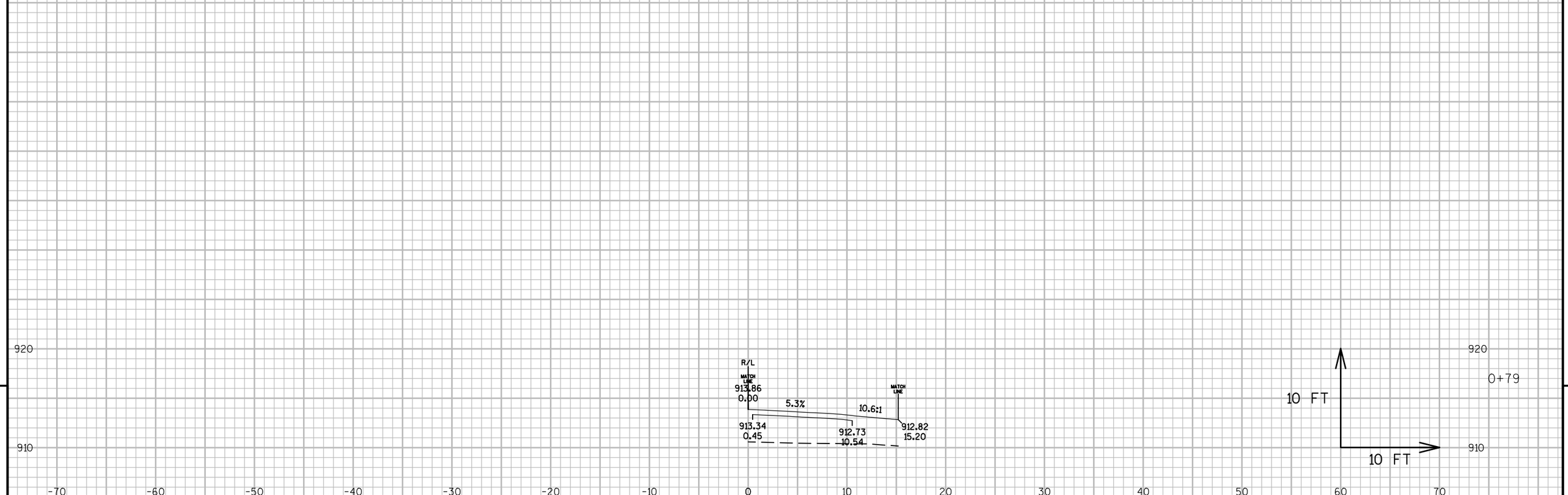




PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE3'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 16+30 LT - (06)

PLOT DATE : 3/9/2017 5:51 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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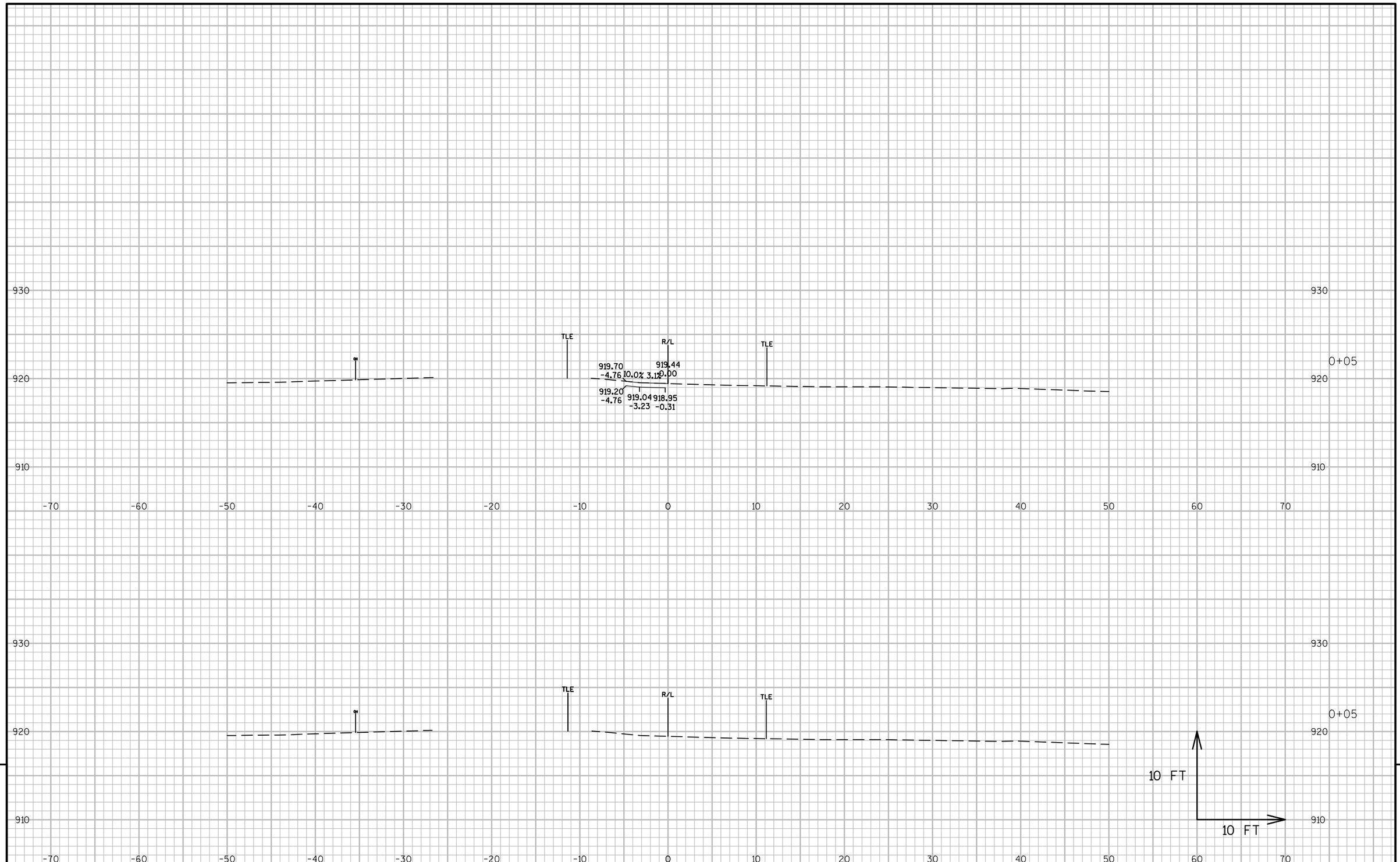
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE3'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 16+30 LT - (07)

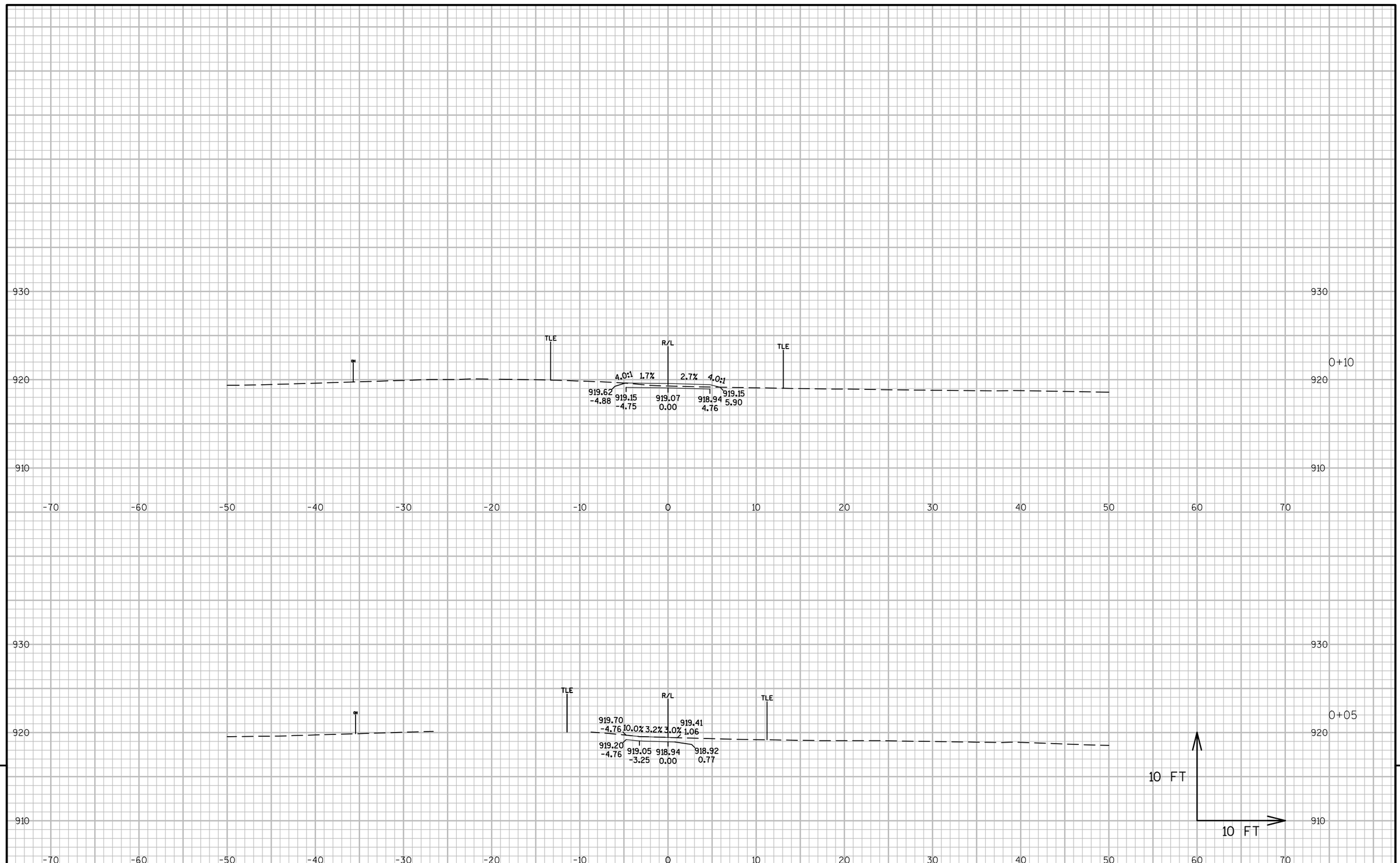
PLOT DATE : 3/9/2017 5:51 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE4'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 23+00 LT - (01)

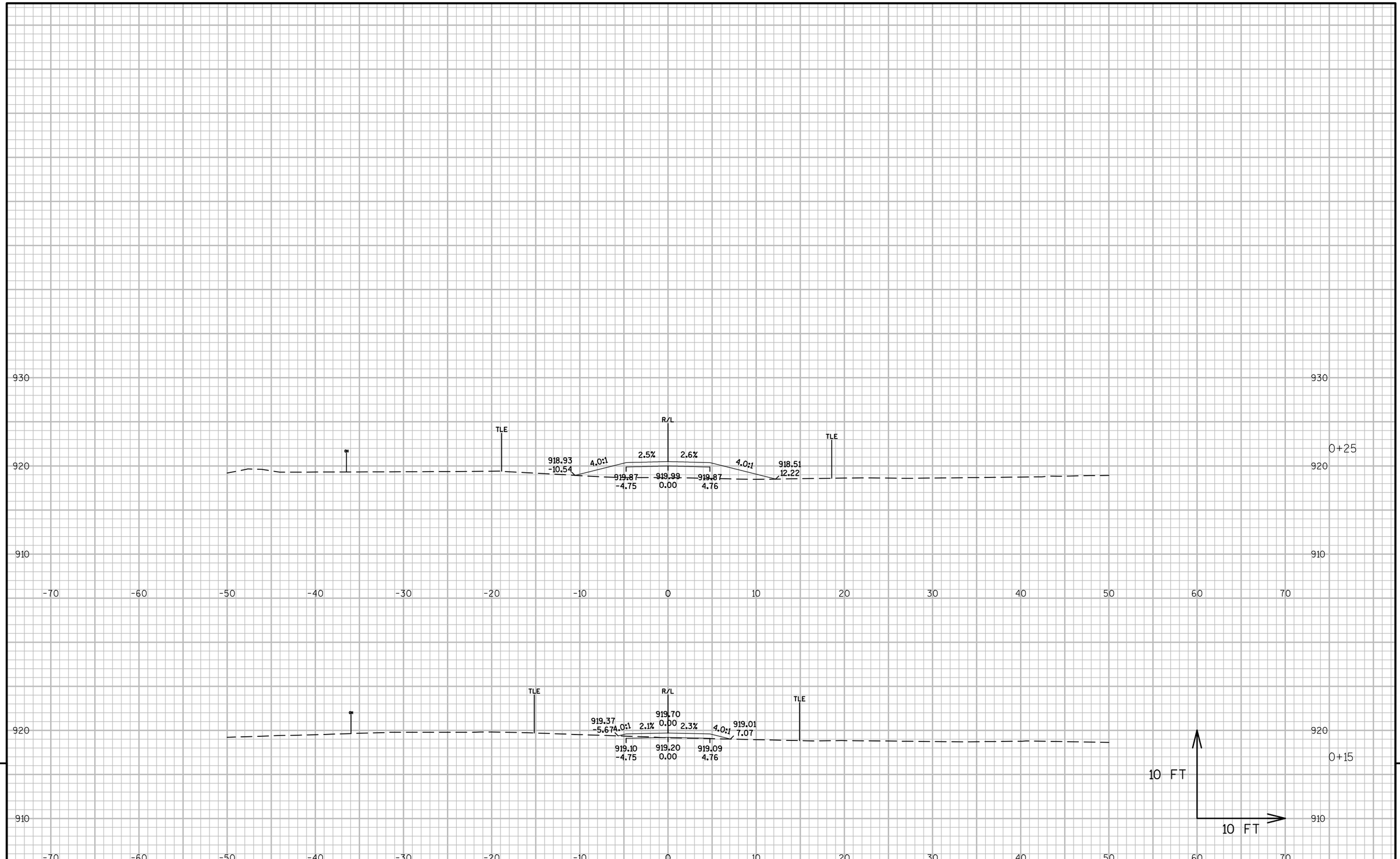
PLOT DATE : 3/9/2017 5:51 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE4'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 23+00 LT - (02)

PLOT DATE : 3/9/2017 5:51 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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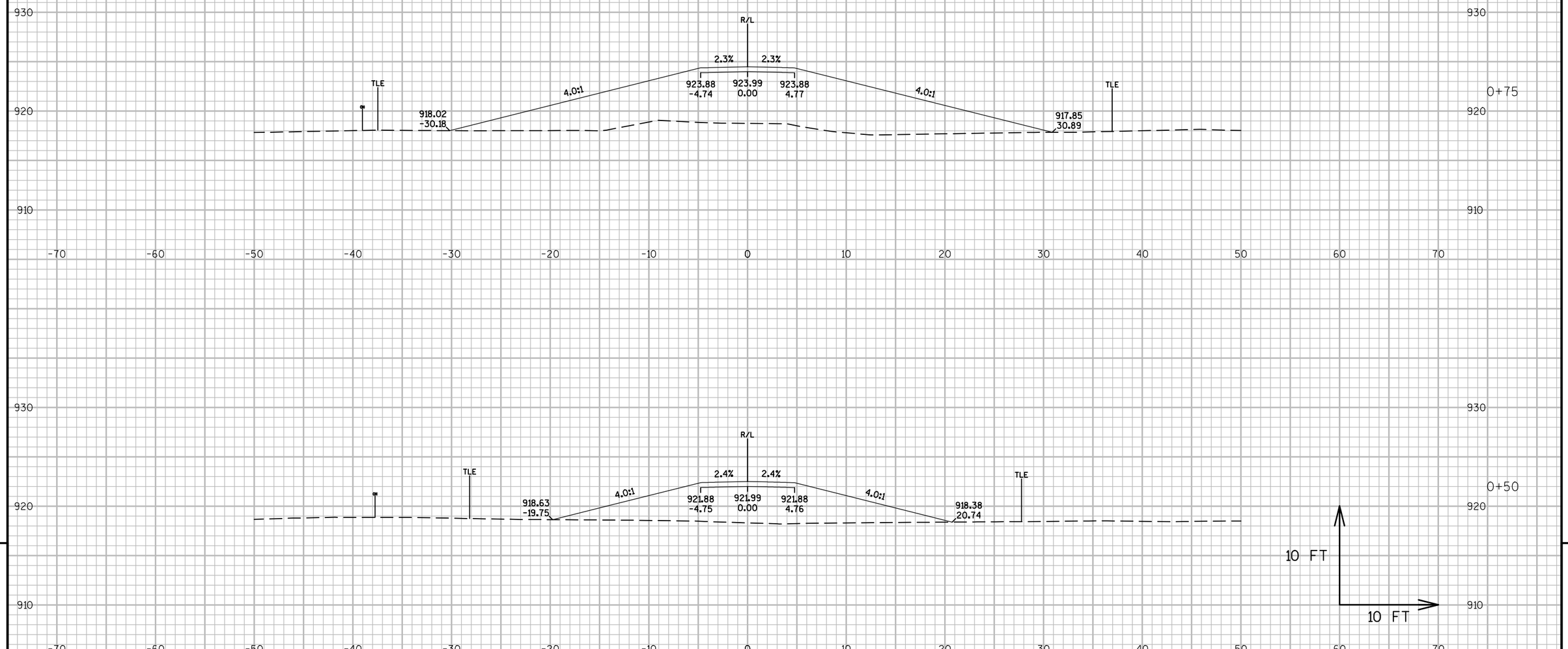
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE4'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 23+00 LT - (03)

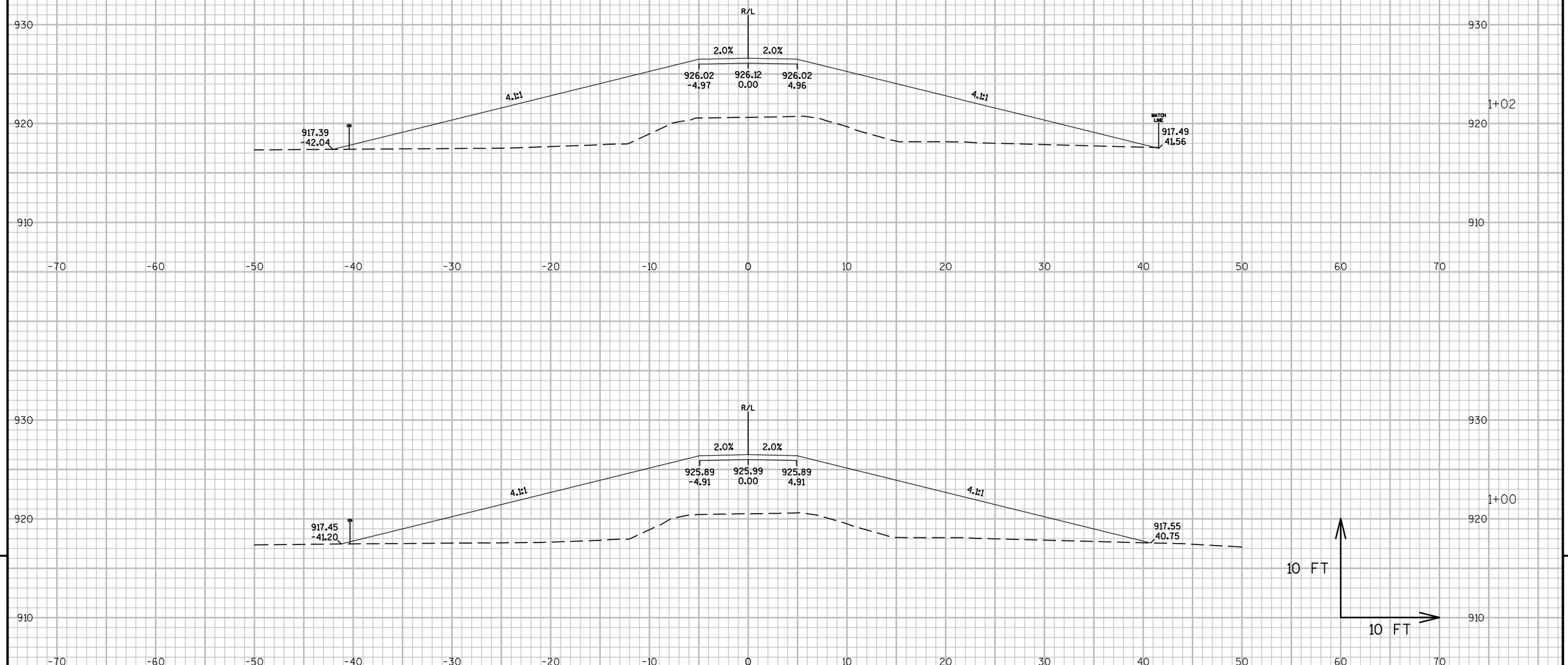
PLOT DATE : 3/9/2017 5:52 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE4'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 23+00 LT - (04)

PLOT DATE : 3/9/2017 5:52 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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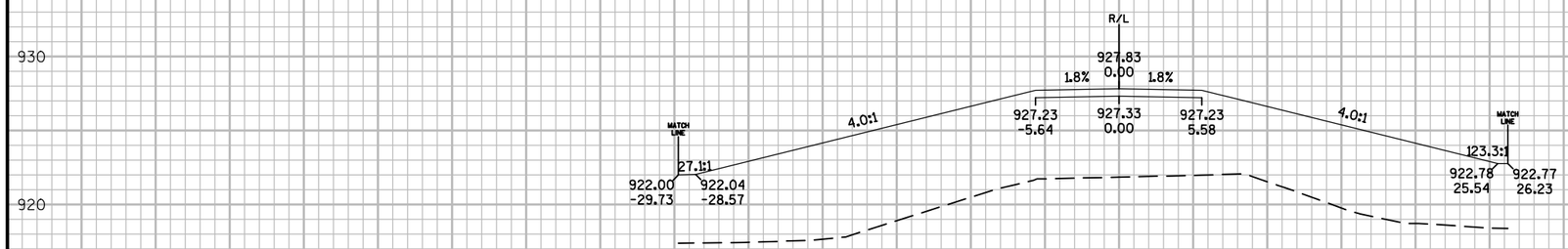
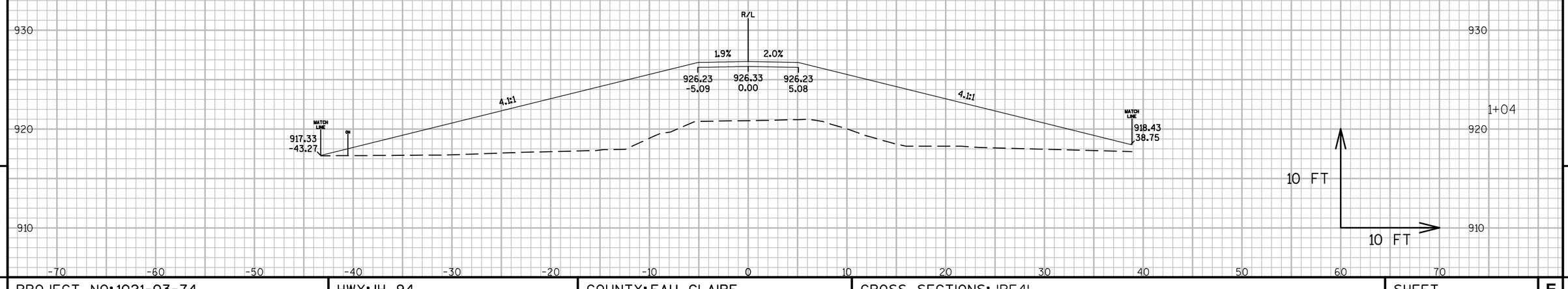
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE4'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 23+00 LT - (05)

PLOT DATE : 3/9/2017 5:52 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1





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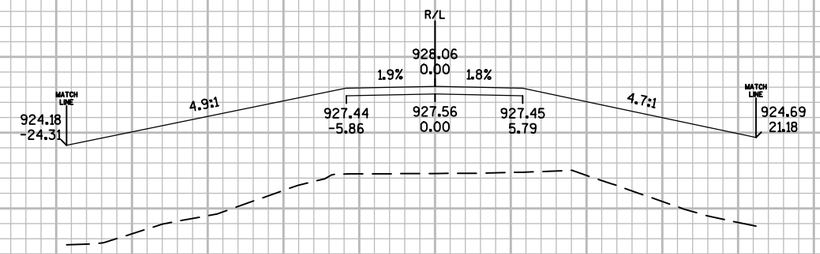
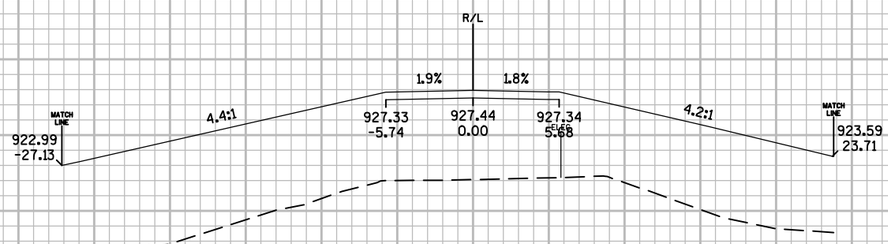
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE4'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 23+00 LT - (06)

PLOT DATE : 3/9/2017 5:52 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1





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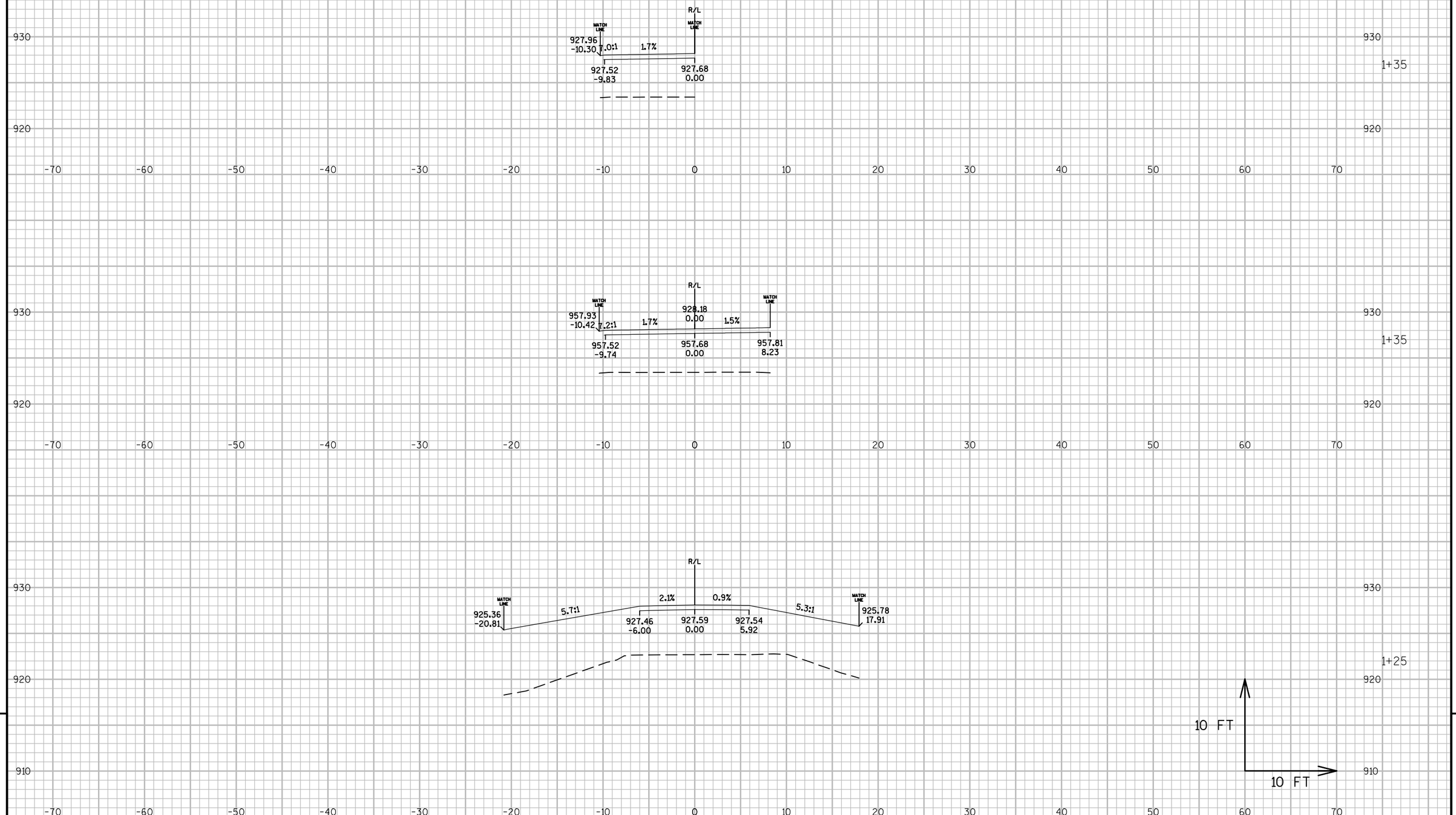
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE4'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 23+00 LT - (07)

PLOT DATE : 3/9/2017 5:52 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE4'	SHEET	E

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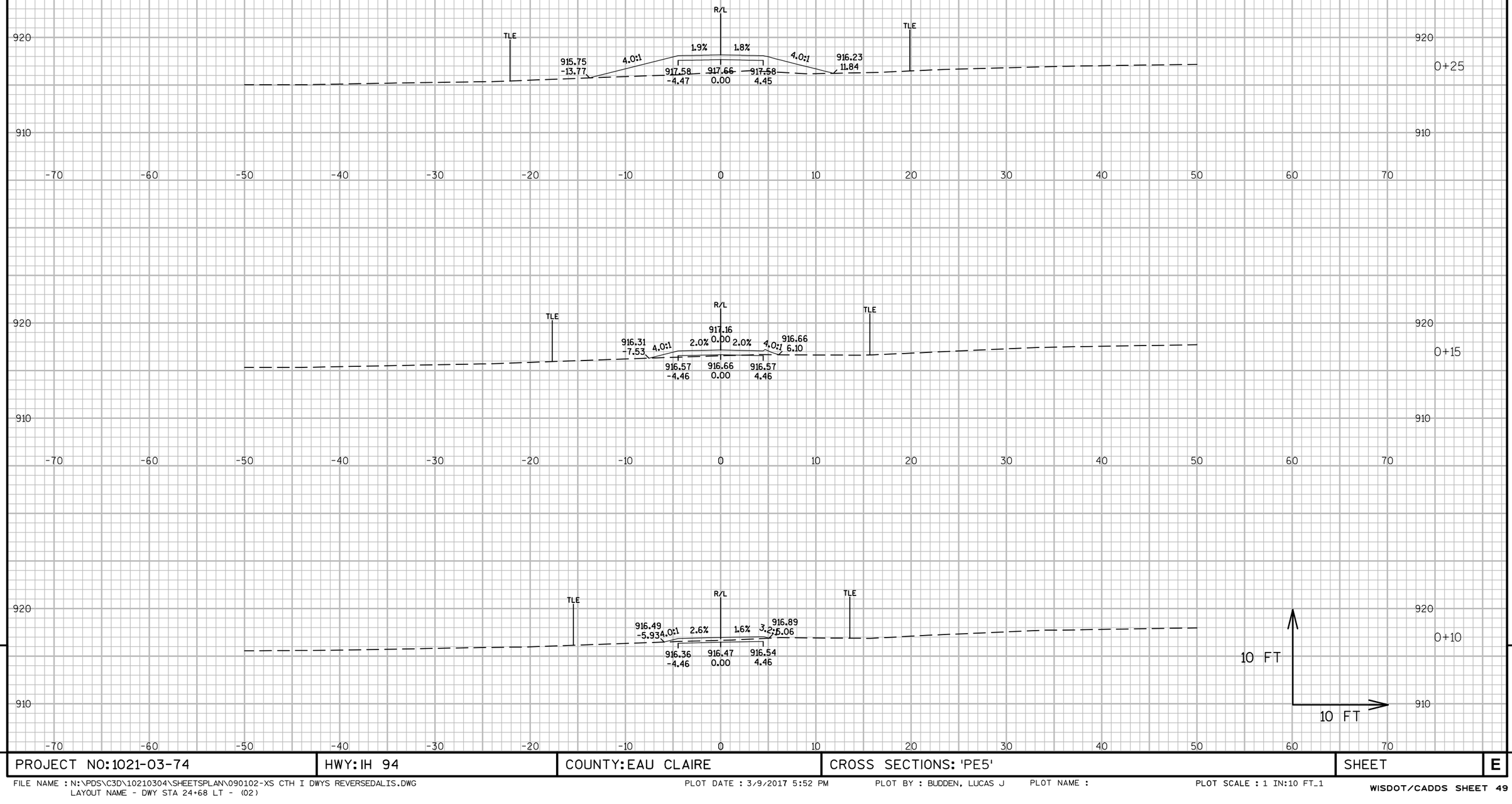
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE5'	SHEET	E

9

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 24+68 LT - (01)

PLOT DATE : 3/9/2017 5:52 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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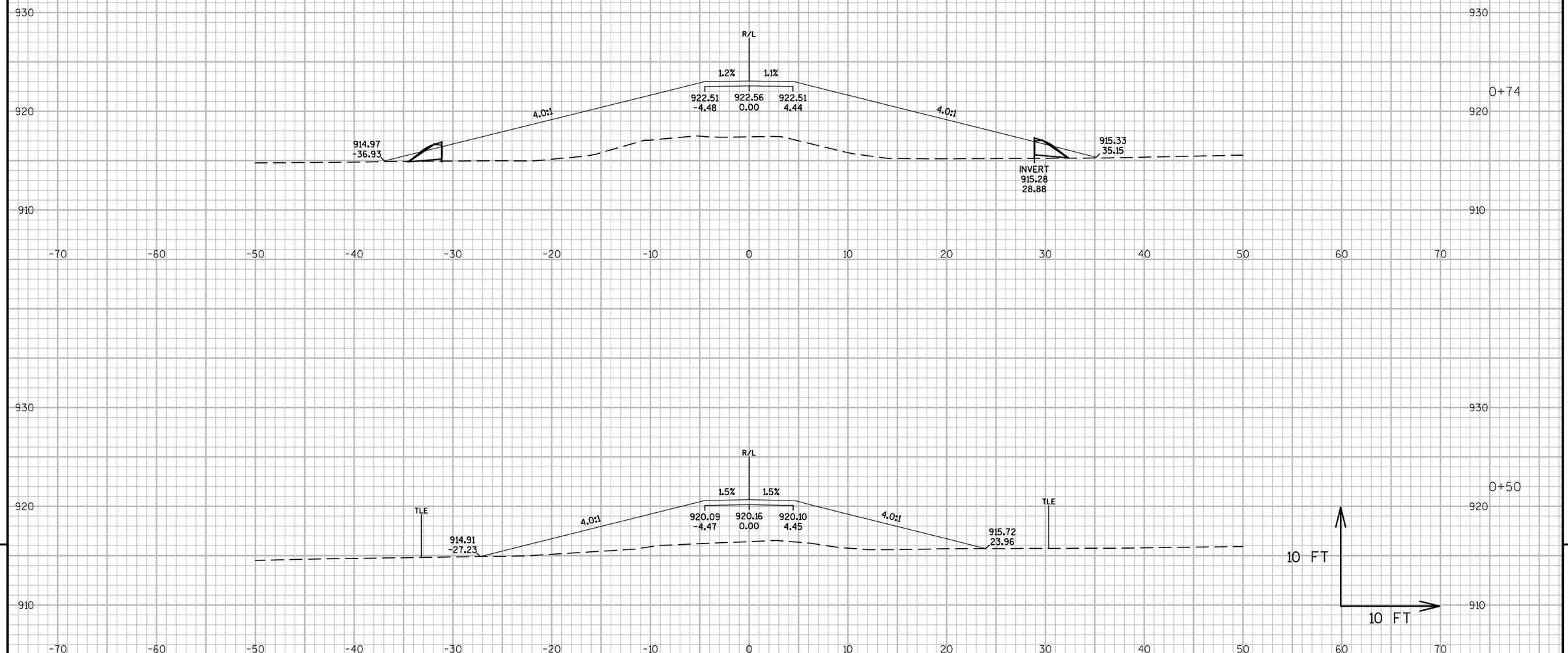
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE5'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 24+68 LT - (02)

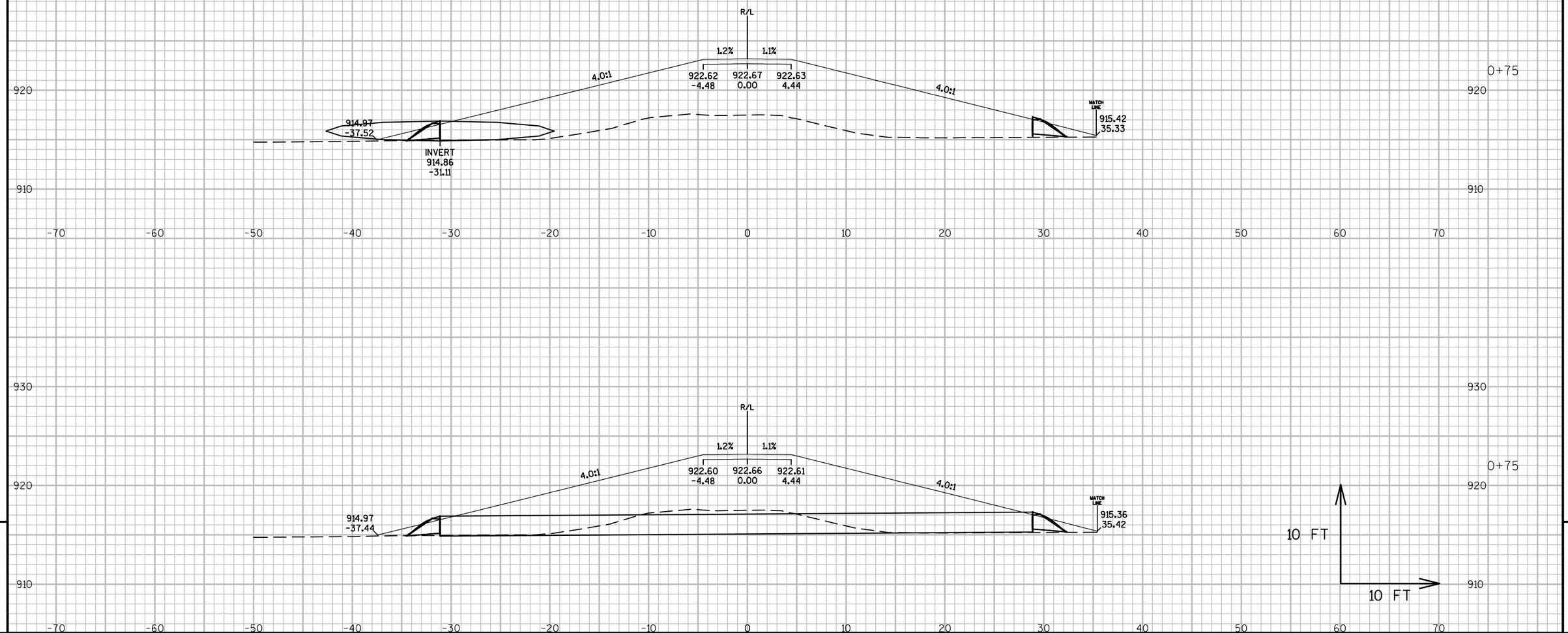
PLOT DATE : 3/9/2017 5:52 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

STA. 0'PE5'+74 - STA. 0'PE5'+75
SKEW 1° LHF
1 - 24" Ø x 60' CPCSAC REQ'D.
2 - APRON ENDWALLS REQ'D.



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE5'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 24+68 LT - (03)
PLOT DATE : 3/9/2017 5:53 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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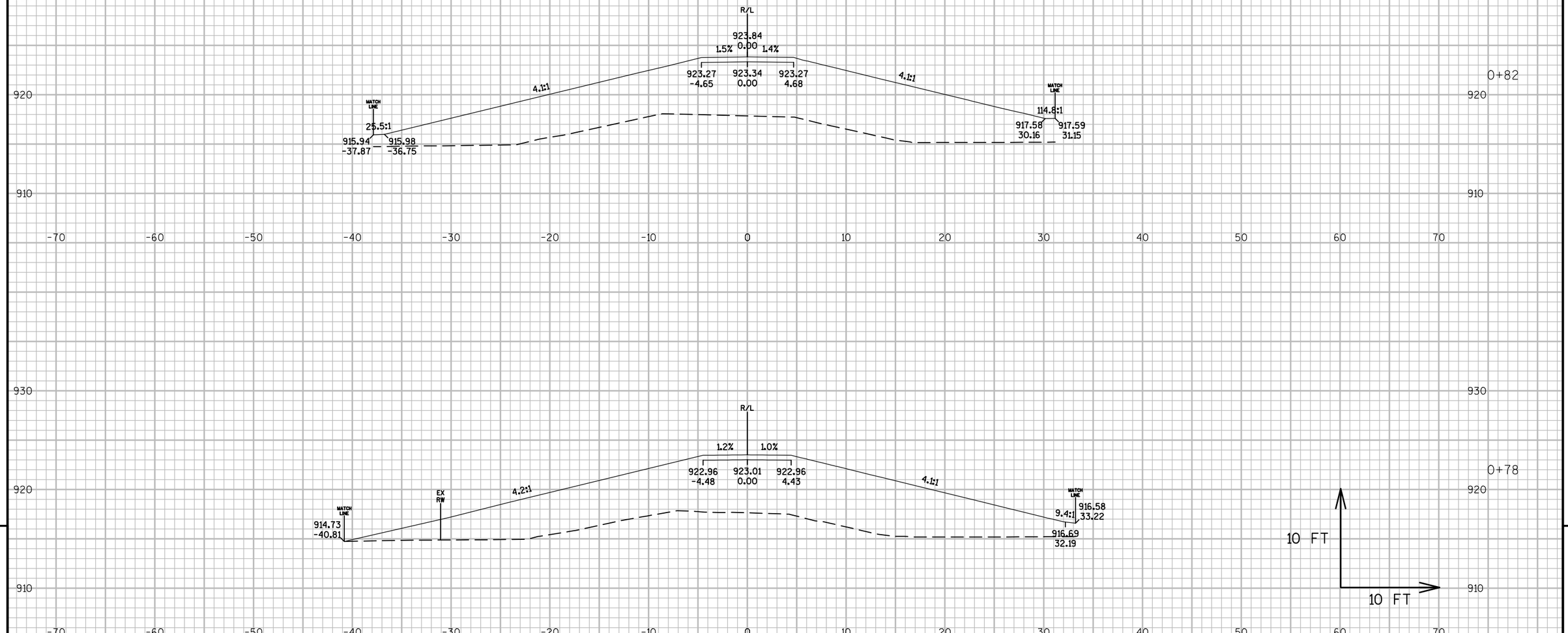
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE5'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 24+68 LT - (04)

PLOT DATE : 3/9/2017 5:53 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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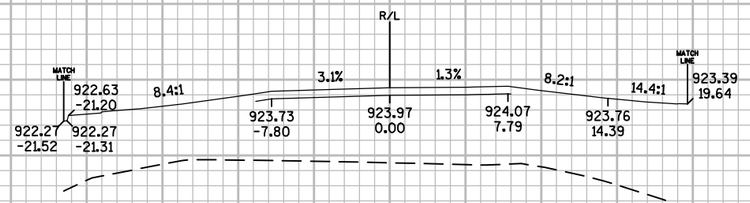
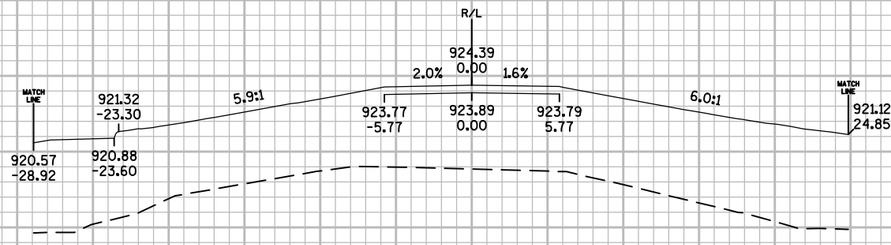
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE5'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 24+68 LT - (05)

PLOT DATE : 3/9/2017 5:53 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1





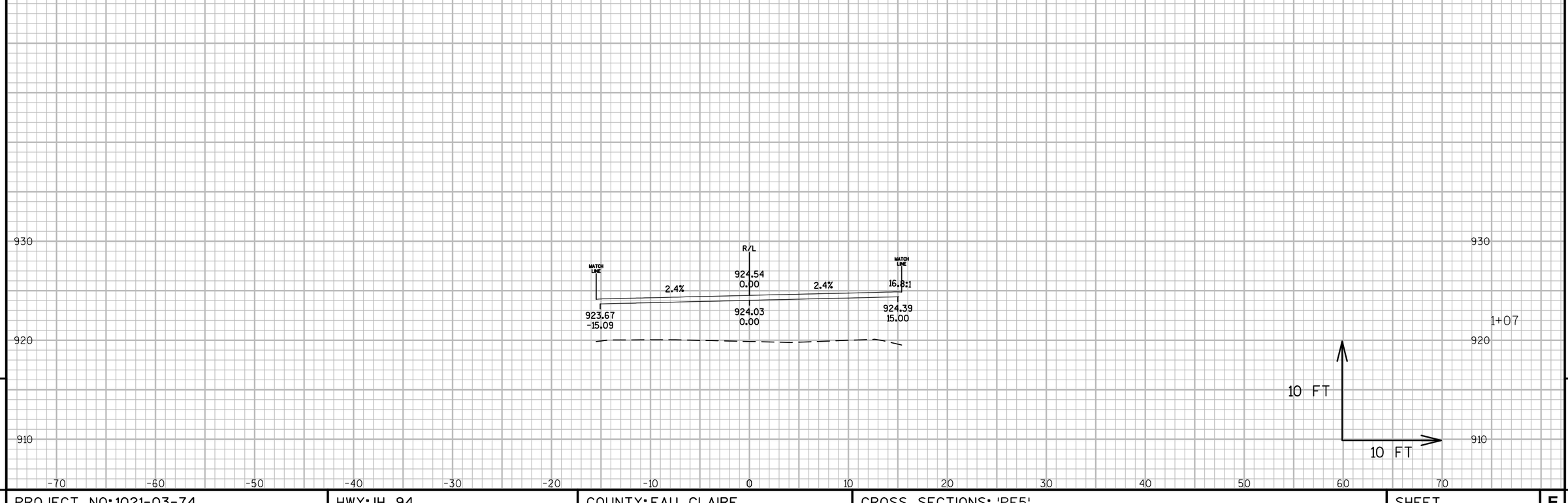
930
920
910
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70
1+00
0+92
10 FT
10 FT

9

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE5'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 24+68 LT - (06)

PLOT DATE : 3/9/2017 5:53 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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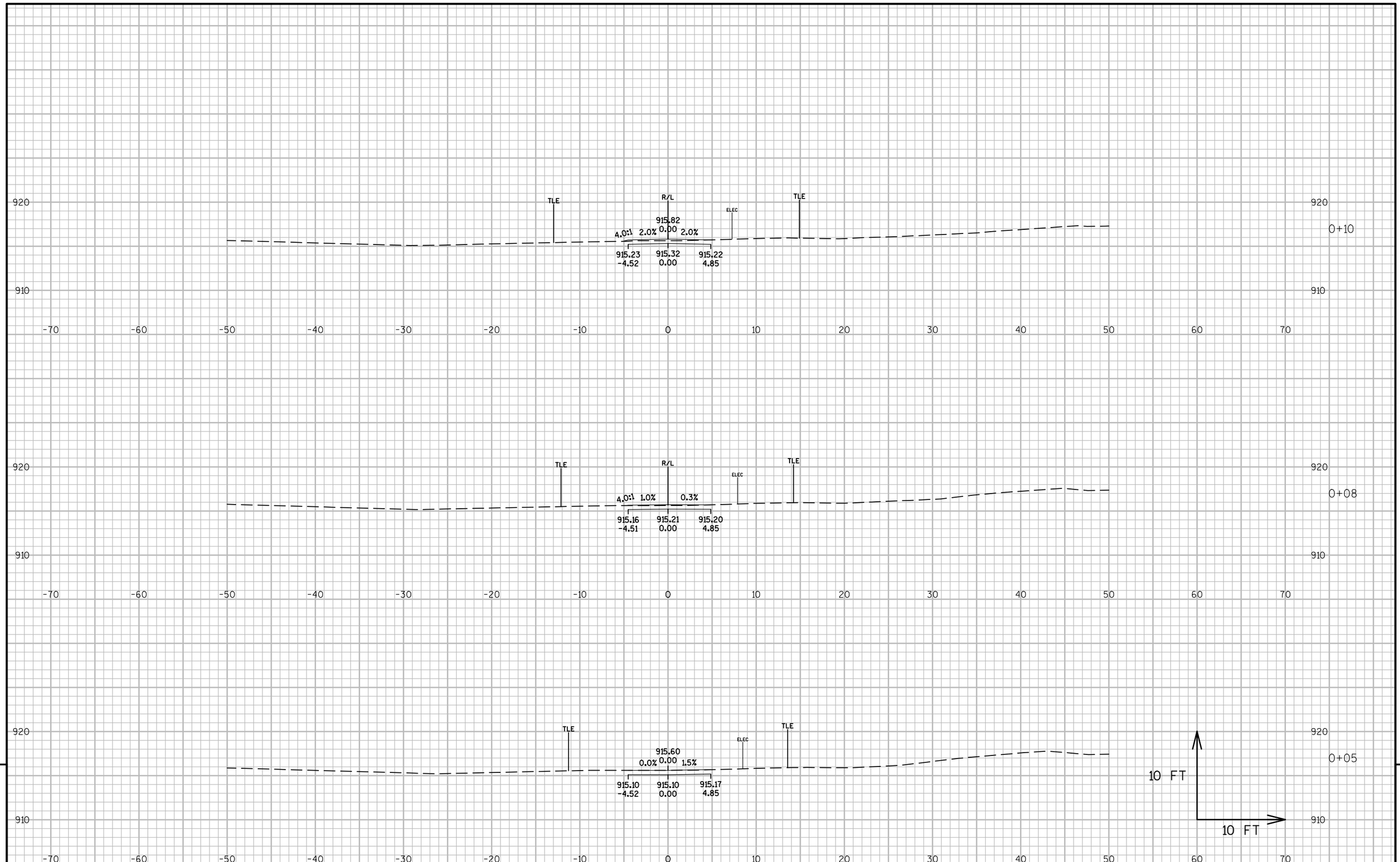
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE5'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 24+68 LT - (07)

PLOT DATE : 3/9/2017 5:53 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



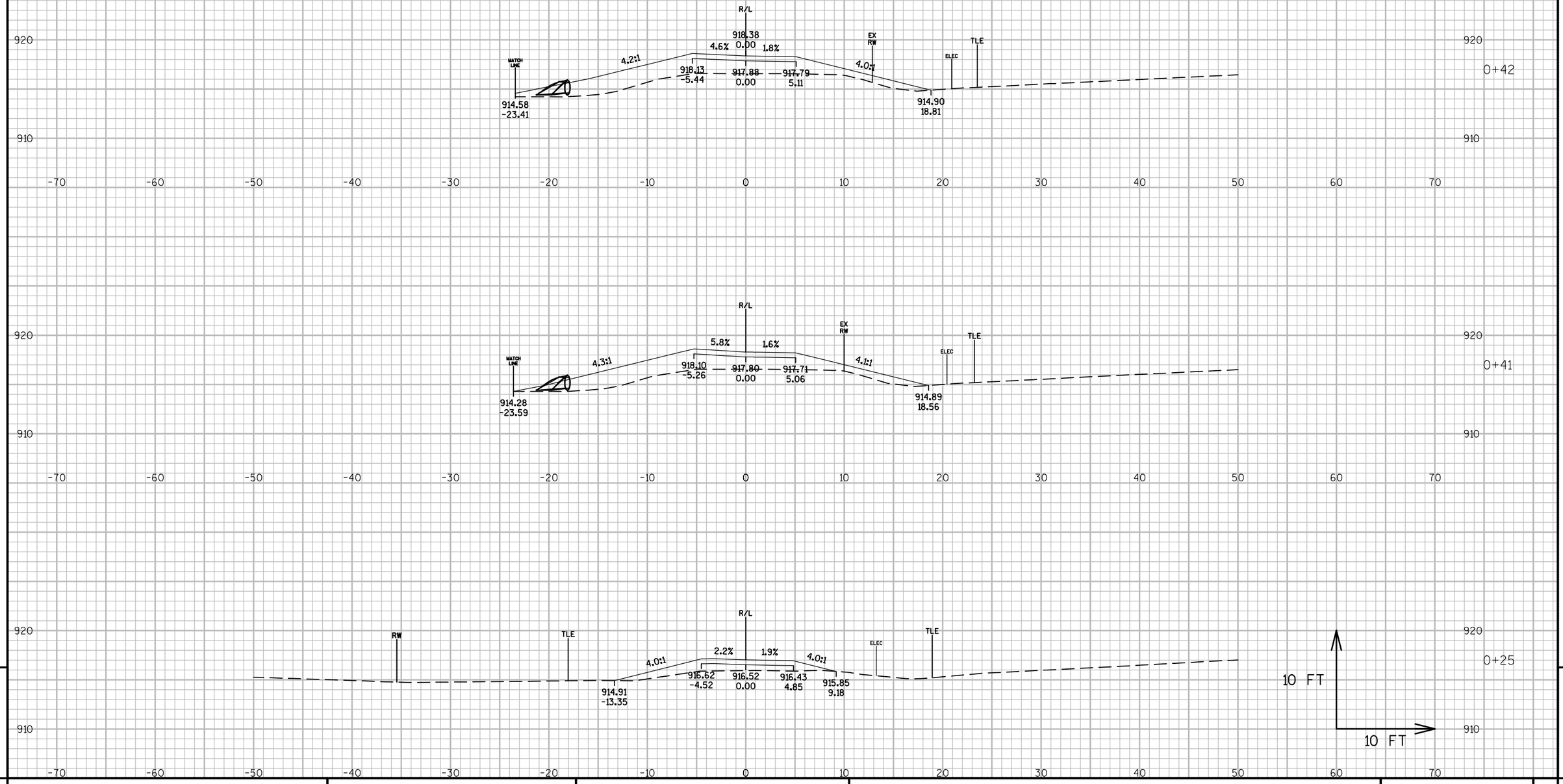
9

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE6'	SHEET	E

9

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 27+97 LT - (01)

PLOT DATE : 3/9/2017 5:53 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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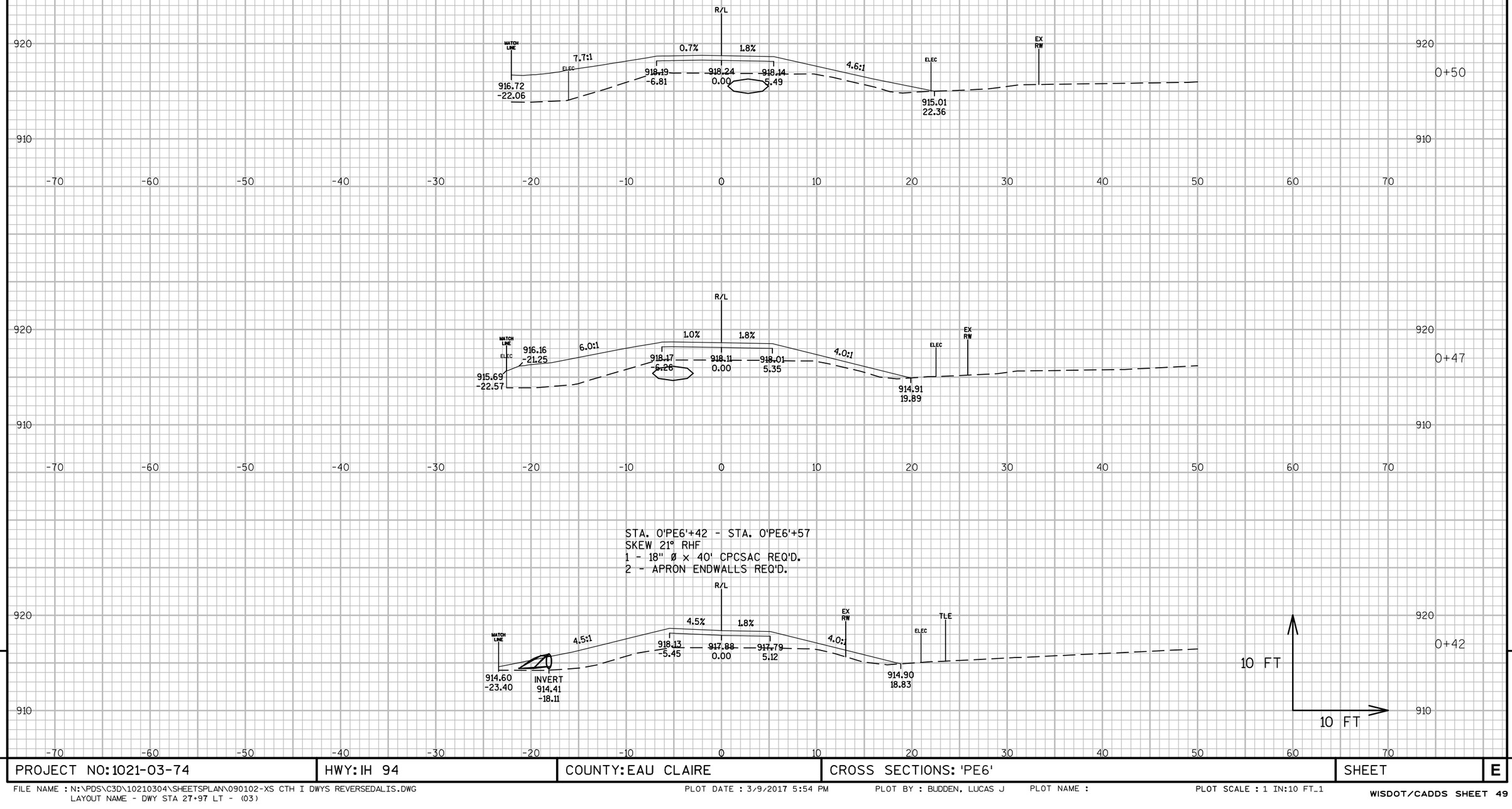
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE6'	SHEET	E

9

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 27+97 LT - (02)

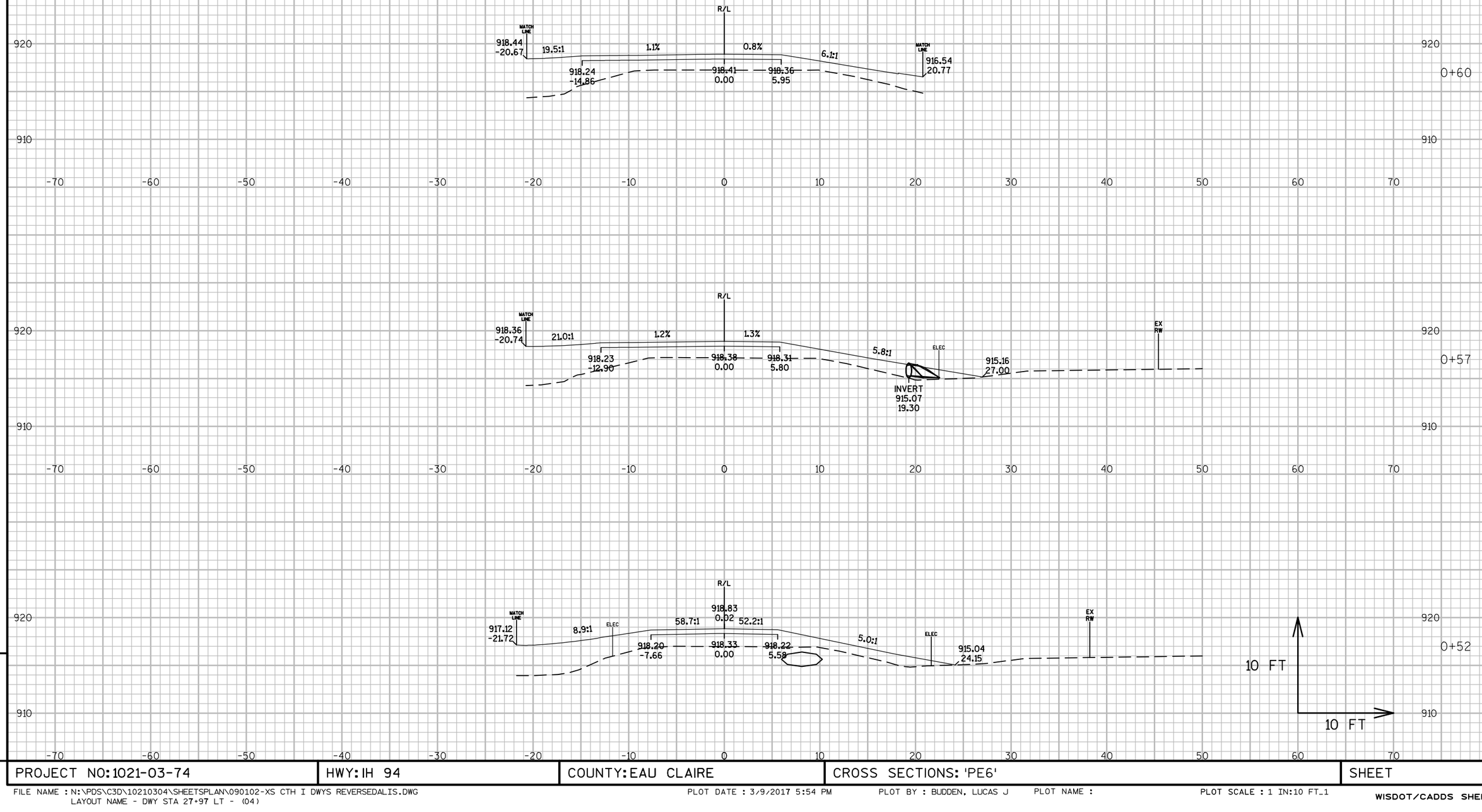
PLOT DATE : 3/9/2017 5:53 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



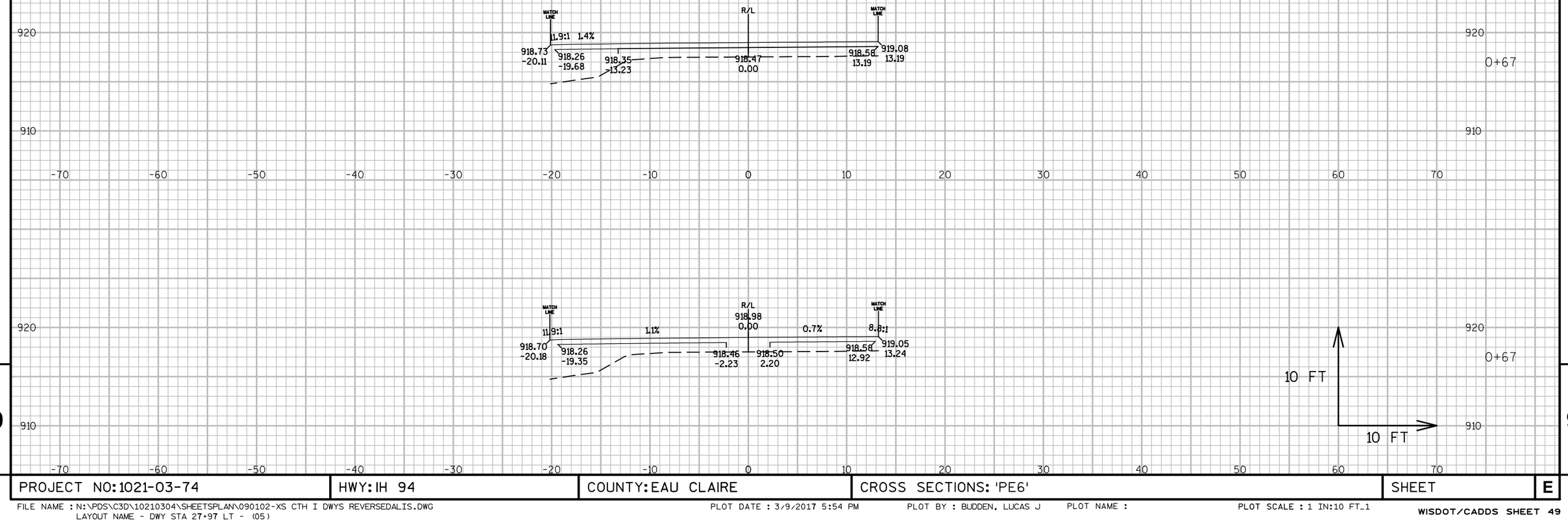
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE6'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 27+97 LT - (03)

PLOT DATE : 3/9/2017 5:54 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE6'	SHEET	E



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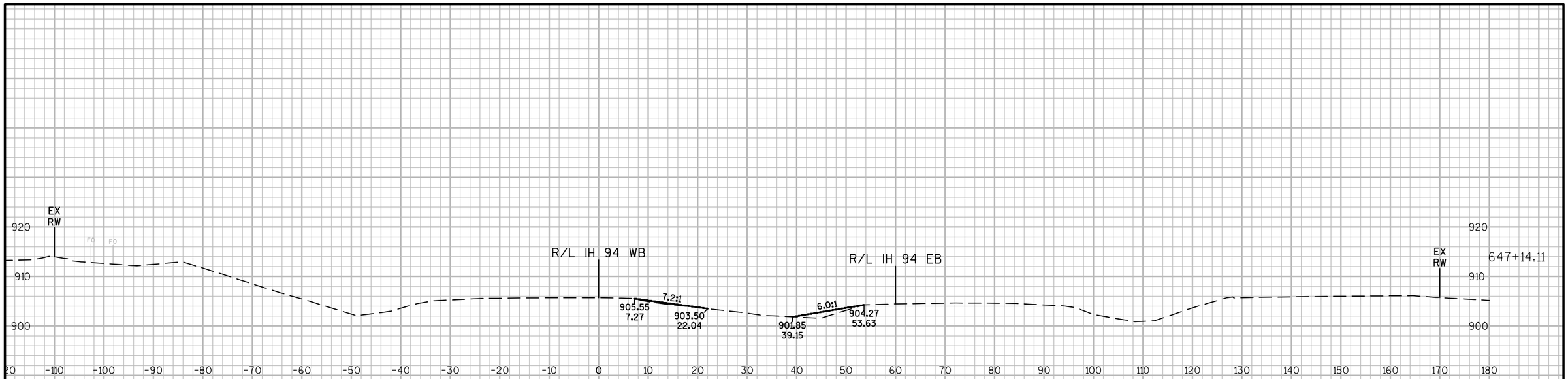
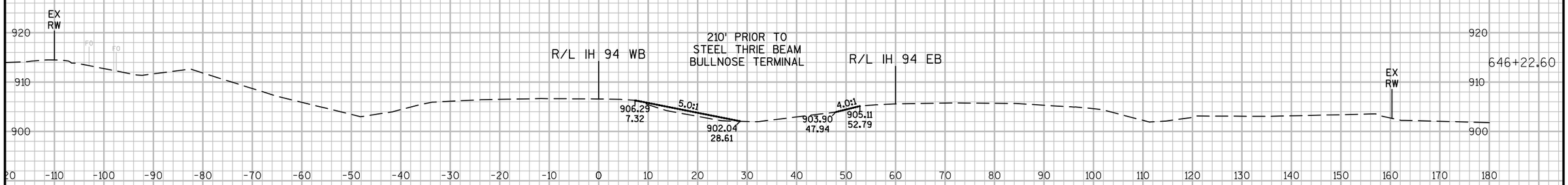
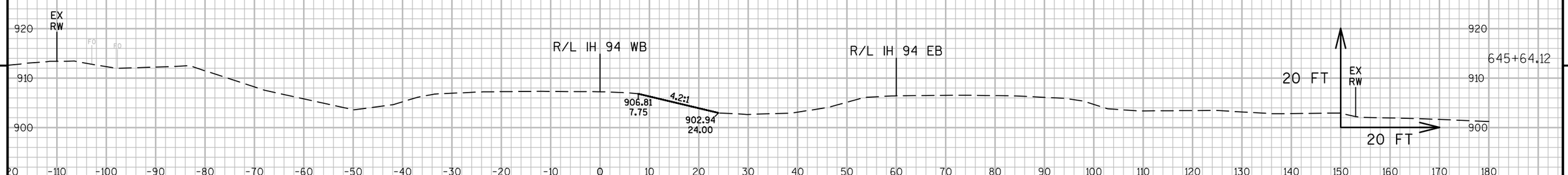
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: 'PE6'	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSPLAN\090102-XS CTH I DWYS REVERSEDALIS.DWG
LAYOUT NAME - DWY STA 27+97 LT - (05)

PLOT DATE : 3/9/2017 5:54 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT_1







9 9

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 MEDIAN AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\CORRIDORS\CRDR-CTHI-BEGIN-TO-END MEDIAN BG_02.21.2017.DWG
LAYOUT NAME - CTH I MEDIAN BG - (1)

PLOT DATE : 2/22/2017 2:00 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT

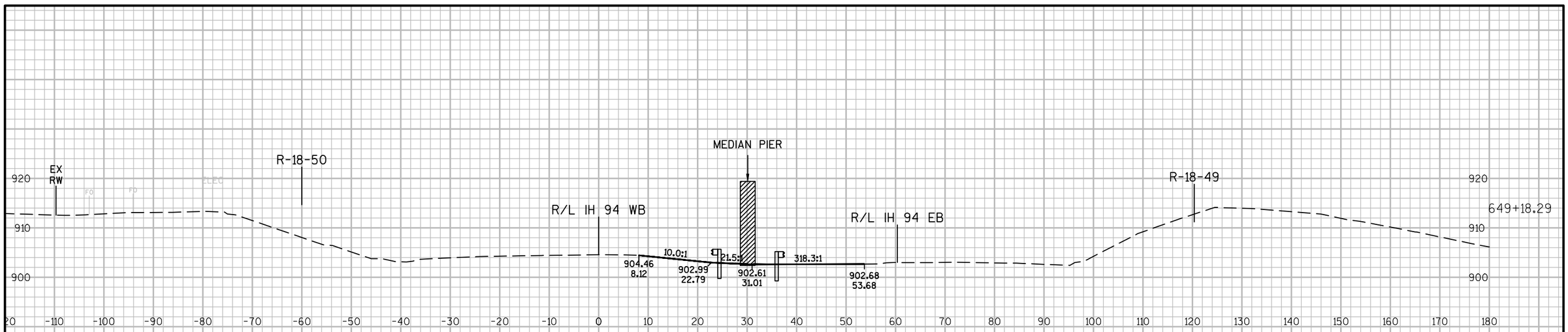
9

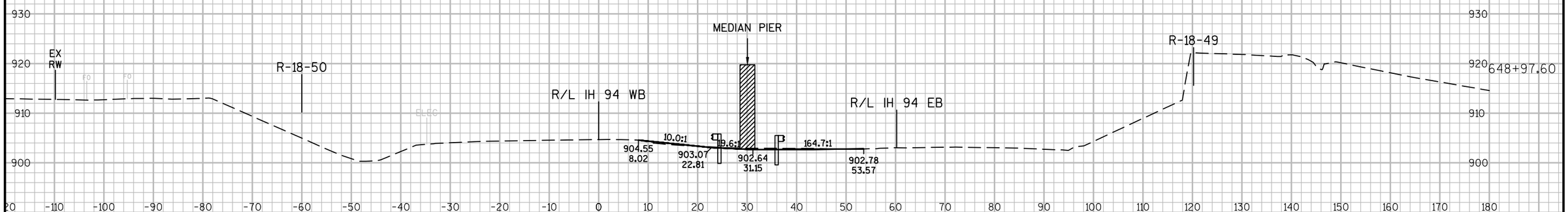
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 MEDIAN AT CTH I	SHEET	E

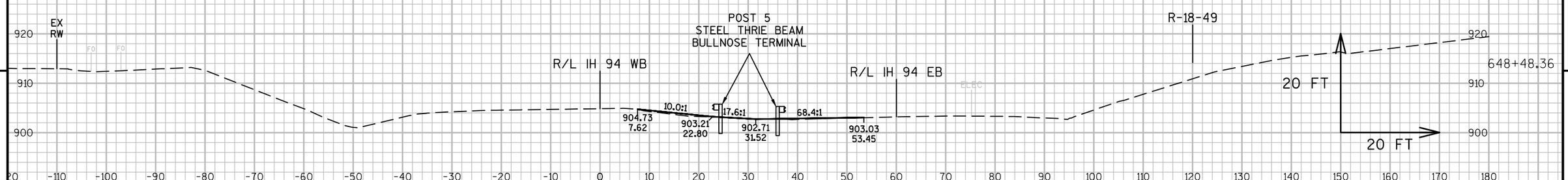
9

FILE NAME : N:\PDS\C3D\10210304\DESIGN\CORRIDORS\CRDR-CTHI-BEGIN-TO-END MEDIAN BG_02.21.2017.DWG
LAYOUT NAME - CTH I MEDIAN BG - (2)

PLOT DATE : 2/22/2017 1:58 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT





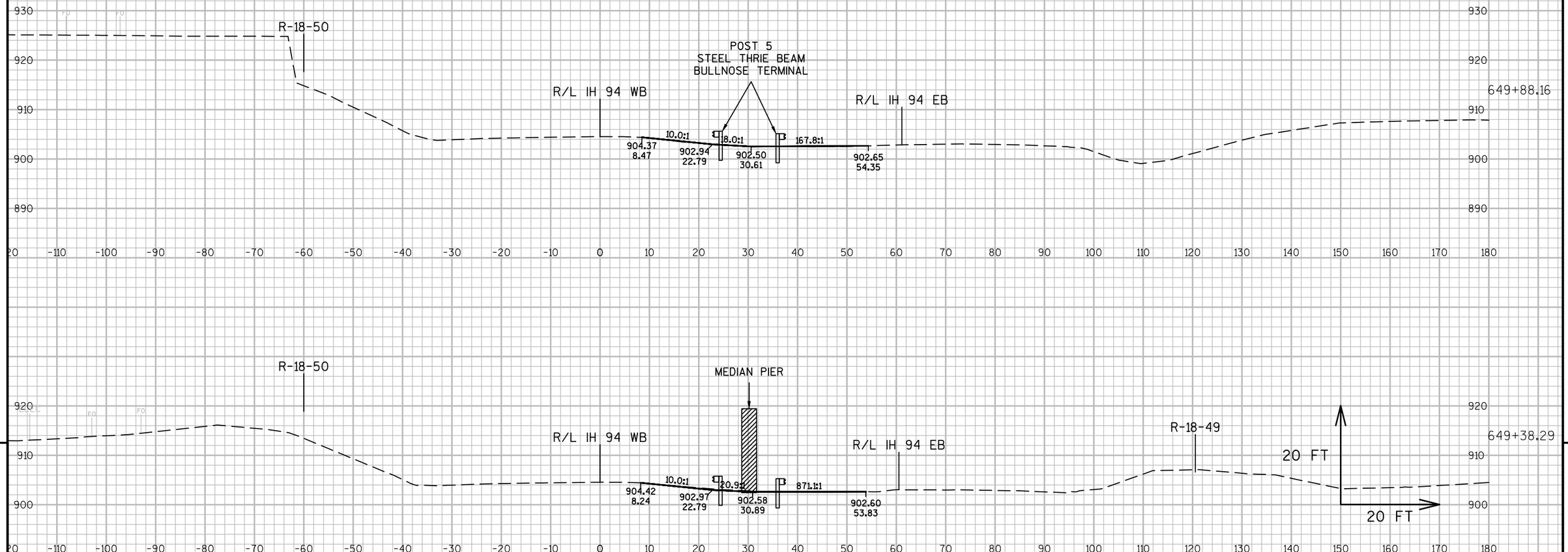


9 9

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 MEDIAN AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\CORRIDORS\CRDR-CTHI-BEGIN-TO-END MEDIAN BG_02.21.2017.DWG
LAYOUT NAME - CTH I MEDIAN BG - (3)

PLOT DATE : 2/22/2017 1:58 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT

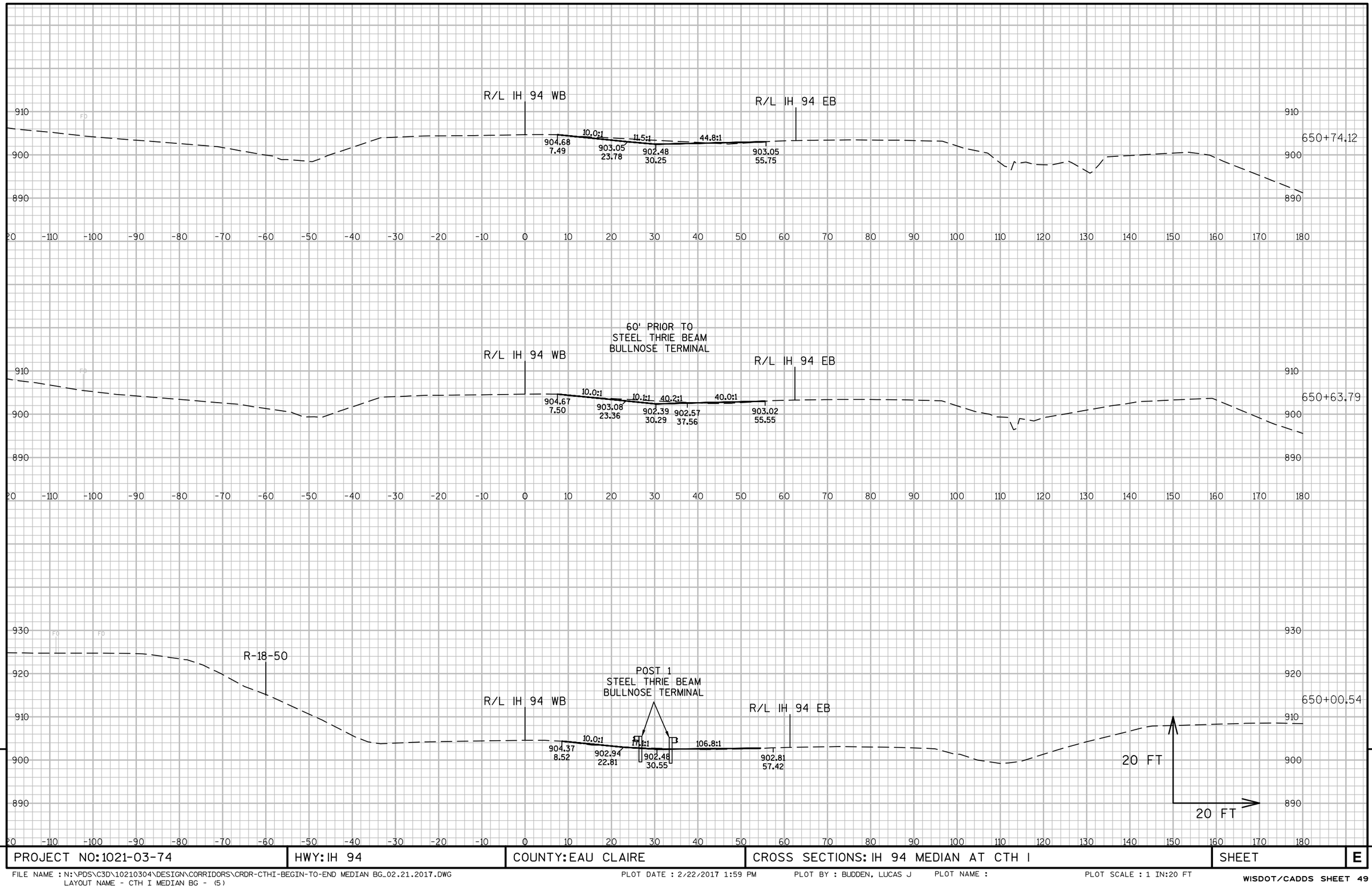


9 9

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 MEDIAN AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\CORRIDORS\CRDR-CTHI-BEGIN-TO-END MEDIAN BG_02.21.2017.DWG
LAYOUT NAME - CTH I MEDIAN BG - (4)

PLOT DATE : 2/22/2017 1:58 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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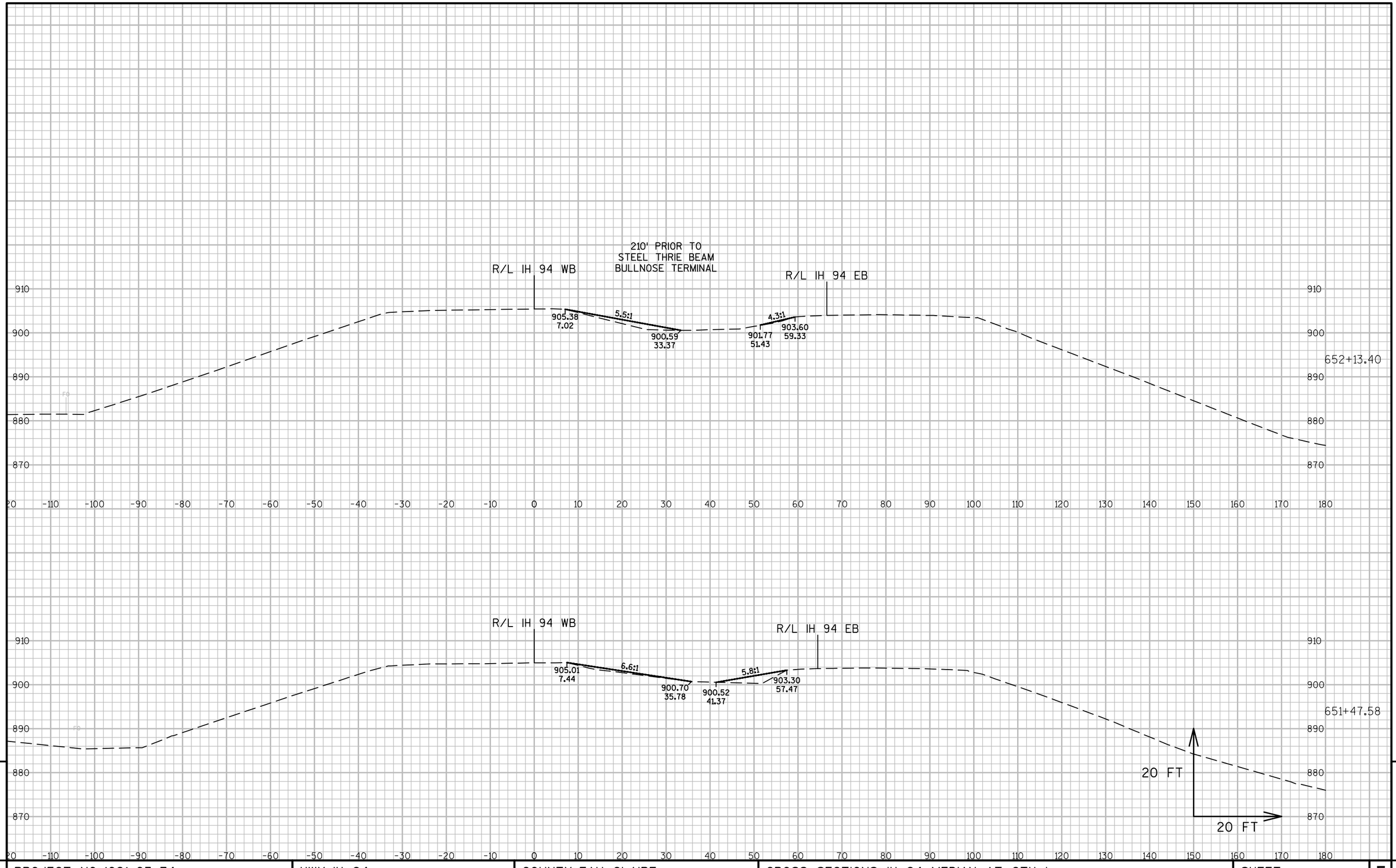
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 MEDIAN AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\CORRIDORS\CRDR-CTHI-BEGIN-TO-END MEDIAN BG_02.21.2017.DWG
LAYOUT NAME - CTH I MEDIAN BG - (5)

PLOT DATE : 2/22/2017 1:59 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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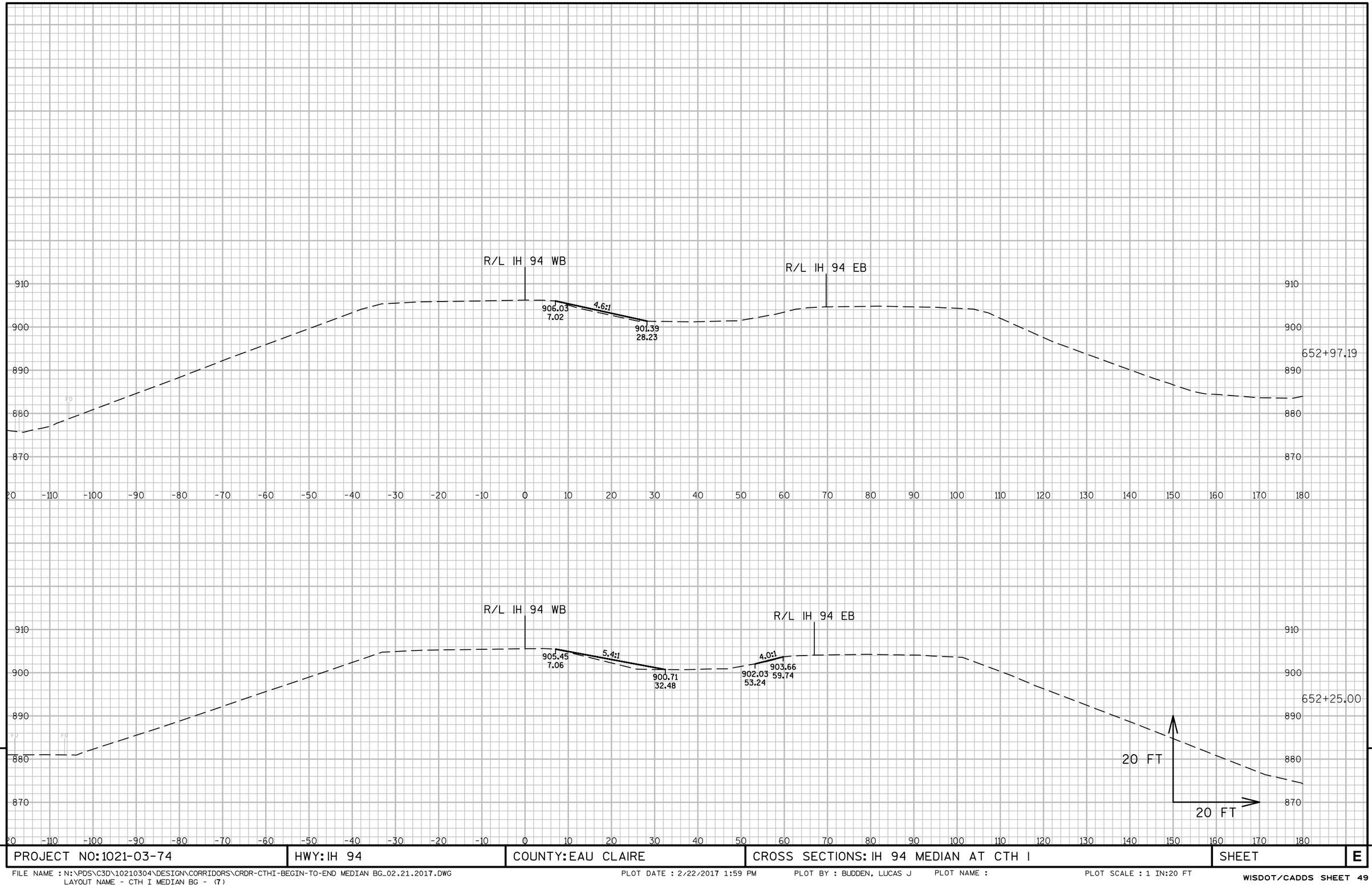
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 MEDIAN AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\CORRIDORS\CRDR-CTHI-BEGIN-TO-END MEDIAN BG_02.21.2017.DWG
LAYOUT NAME - CTH I MEDIAN BG - (6)

PLOT DATE : 2/22/2017 1:59 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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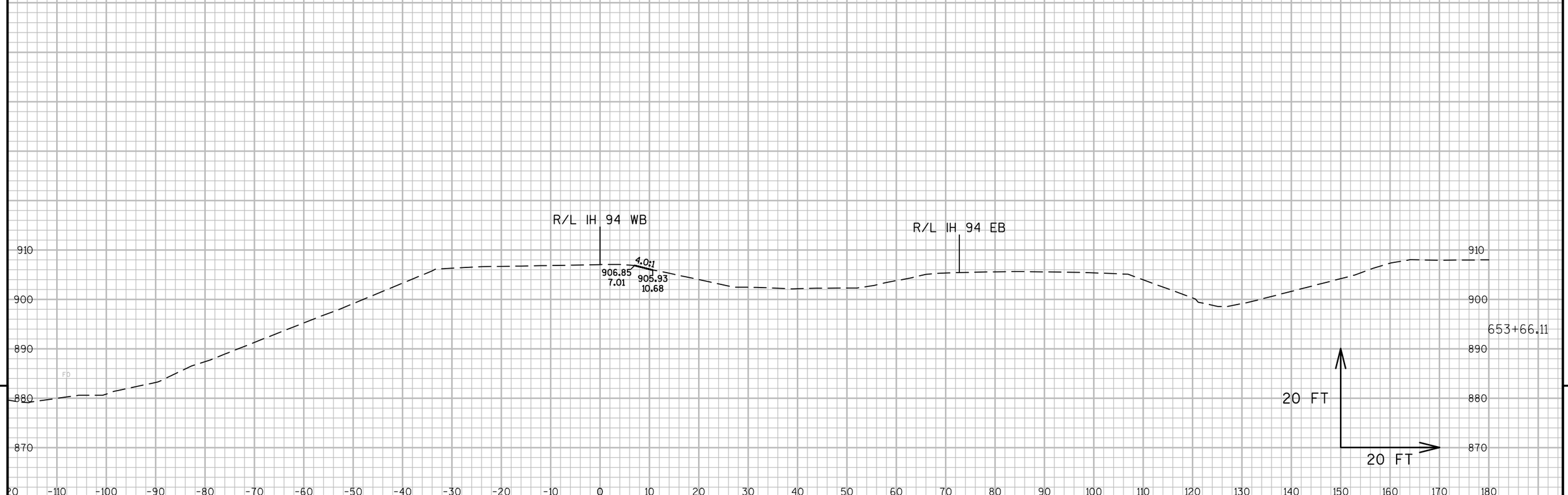
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 MEDIAN AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\CORRIDORS\CRDR-CTHI-BEGIN-TO-END MEDIAN BG_02.21.2017.DWG
LAYOUT NAME - CTH I MEDIAN BG - (7)

PLOT DATE : 2/22/2017 1:59 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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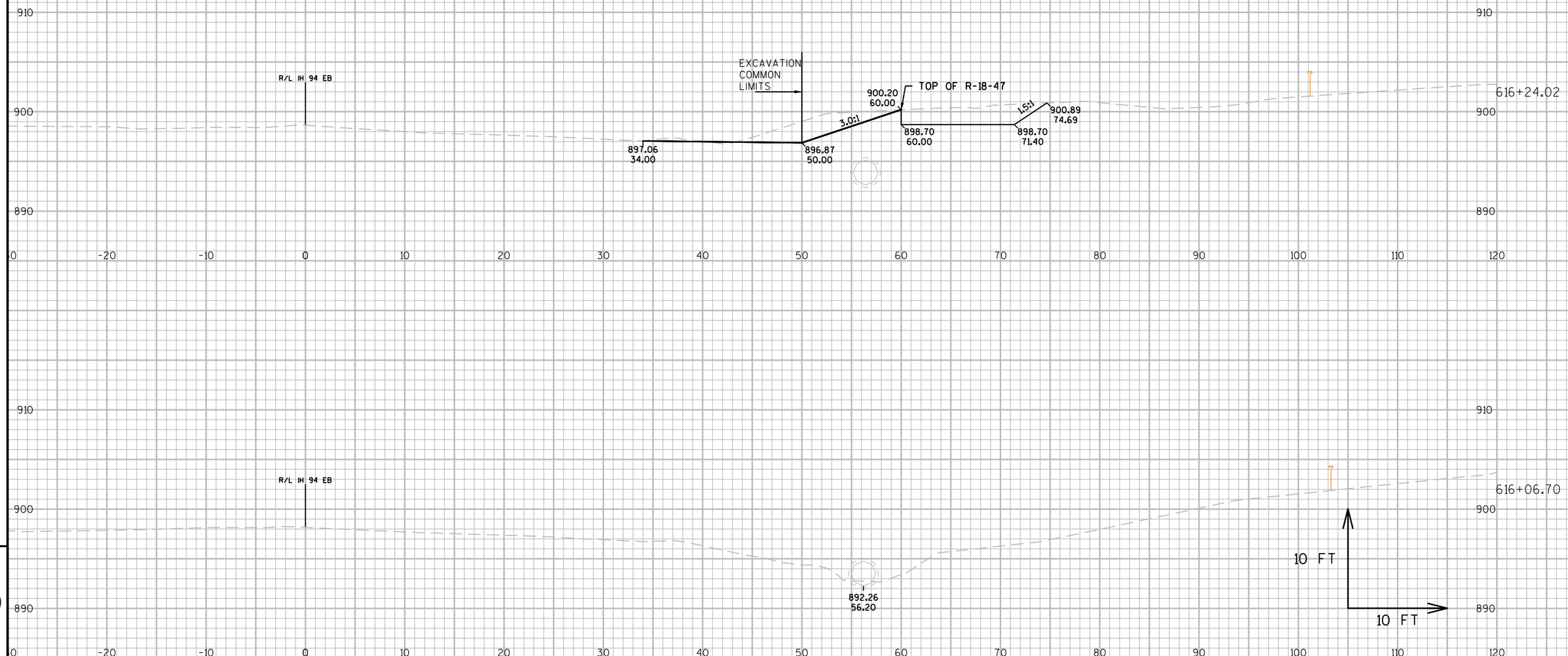
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 MEDIAN AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\DESIGN\CORRIDORS\CRDR-CTHI-BEGIN-TO-END MEDIAN BG_02.21.2017.DWG
LAYOUT NAME - CTH I MEDIAN BG - (8)

PLOT DATE : 2/22/2017 1:59 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:20 FT

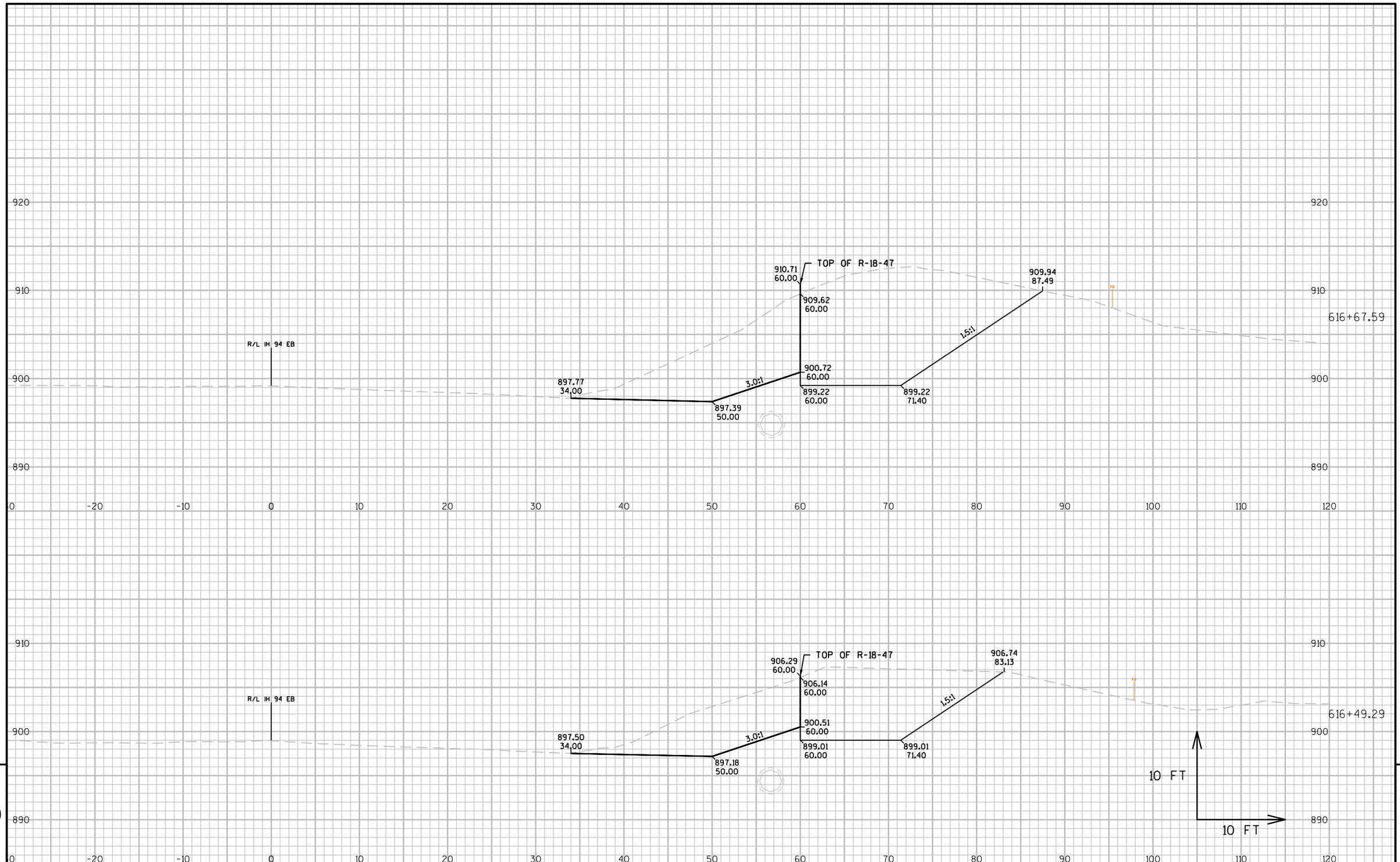


PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 EB AT HOBBS RD.	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-47_XS 1078.DWG
LAYOUT NAME - R-18-47 - (2)

PLOT DATE : 1/9/2017 3:22 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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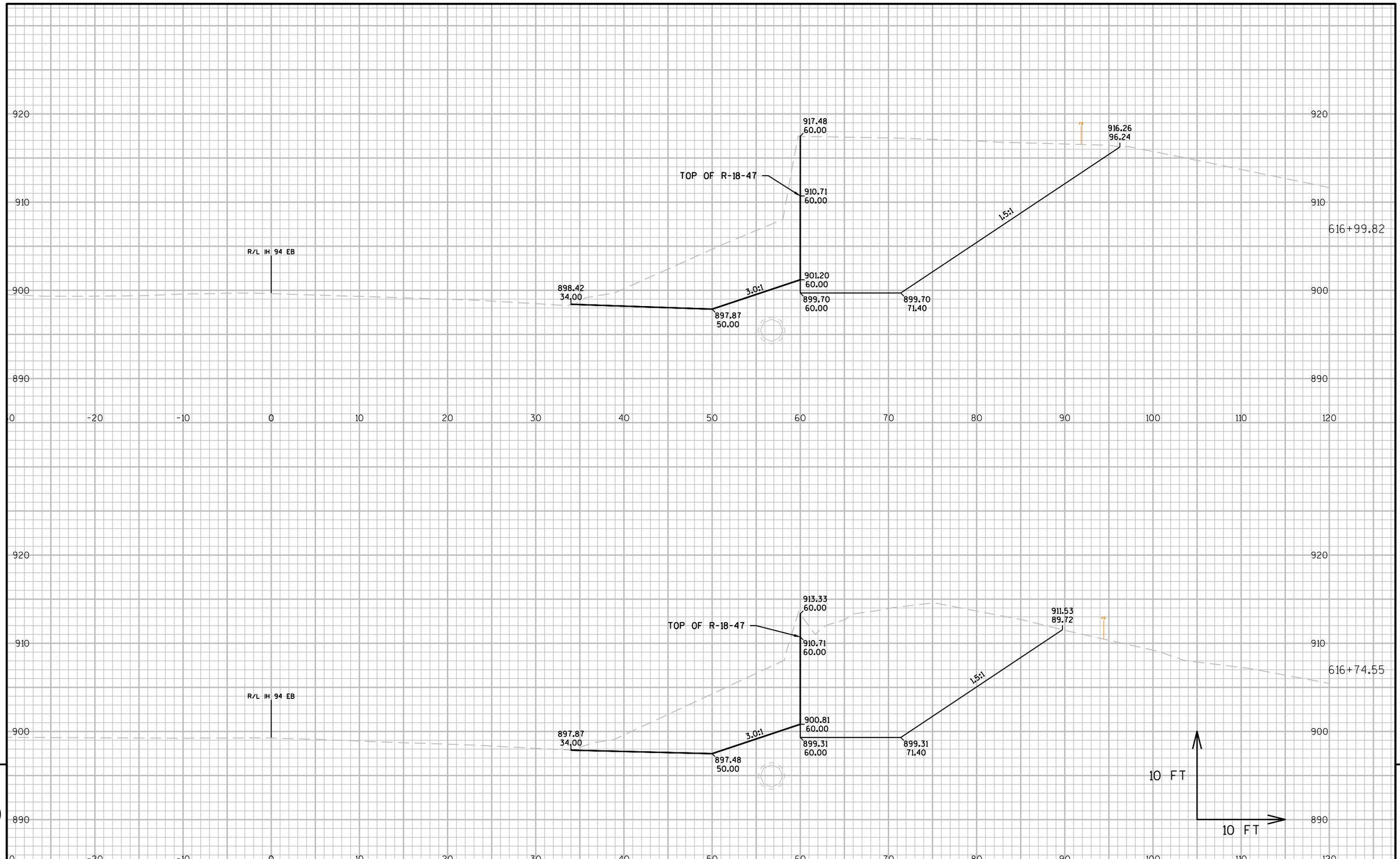
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 EB AT HOBBS RD.	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-47_XS 1078.DWG
LAYOUT NAME - R-18-47 - (3)

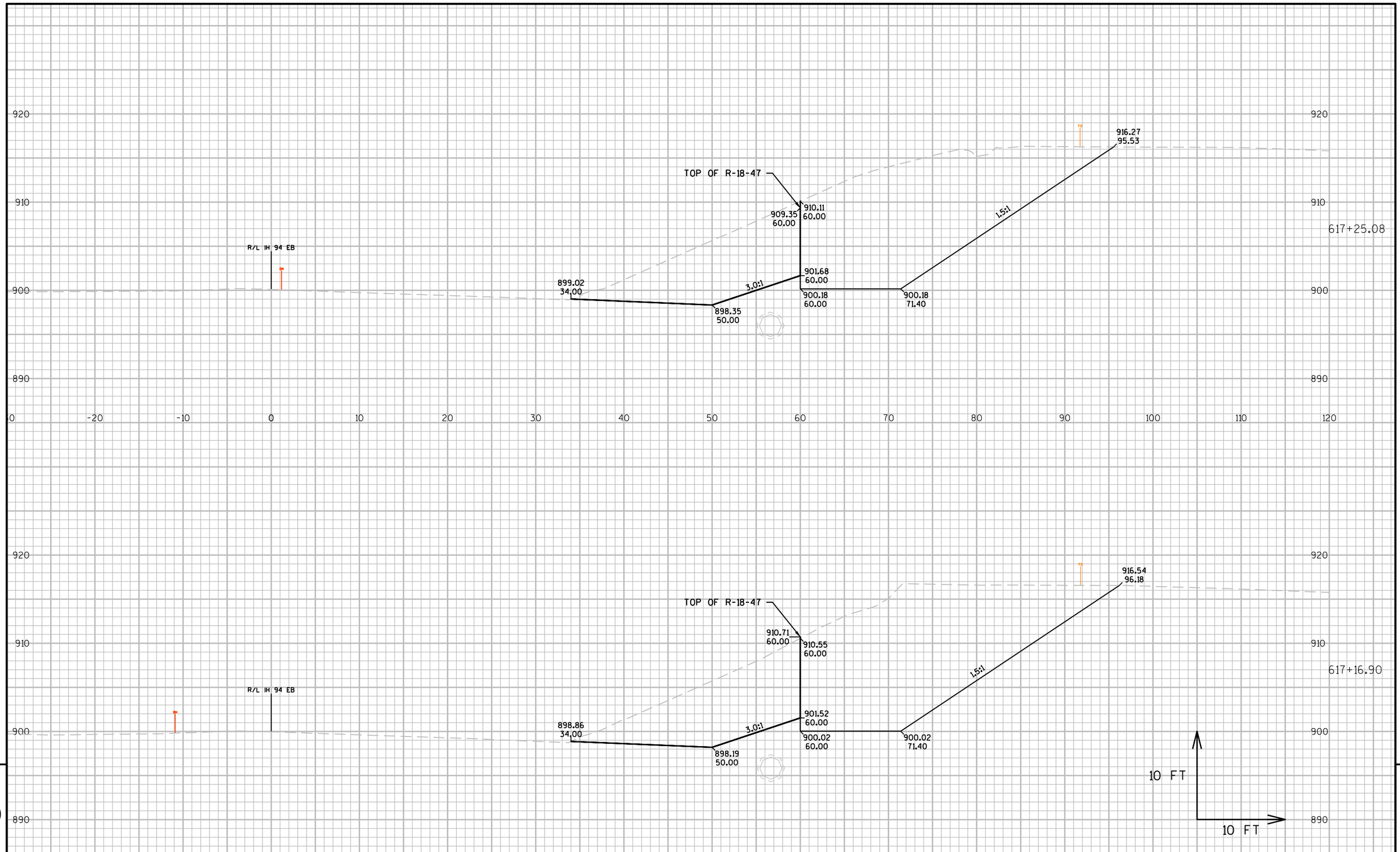
PLOT DATE : 1/9/2017 3:22 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 EB AT HOBBS RD.	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-47_XS 1078.DWG
LAYOUT NAME - R-18-47 - (4)

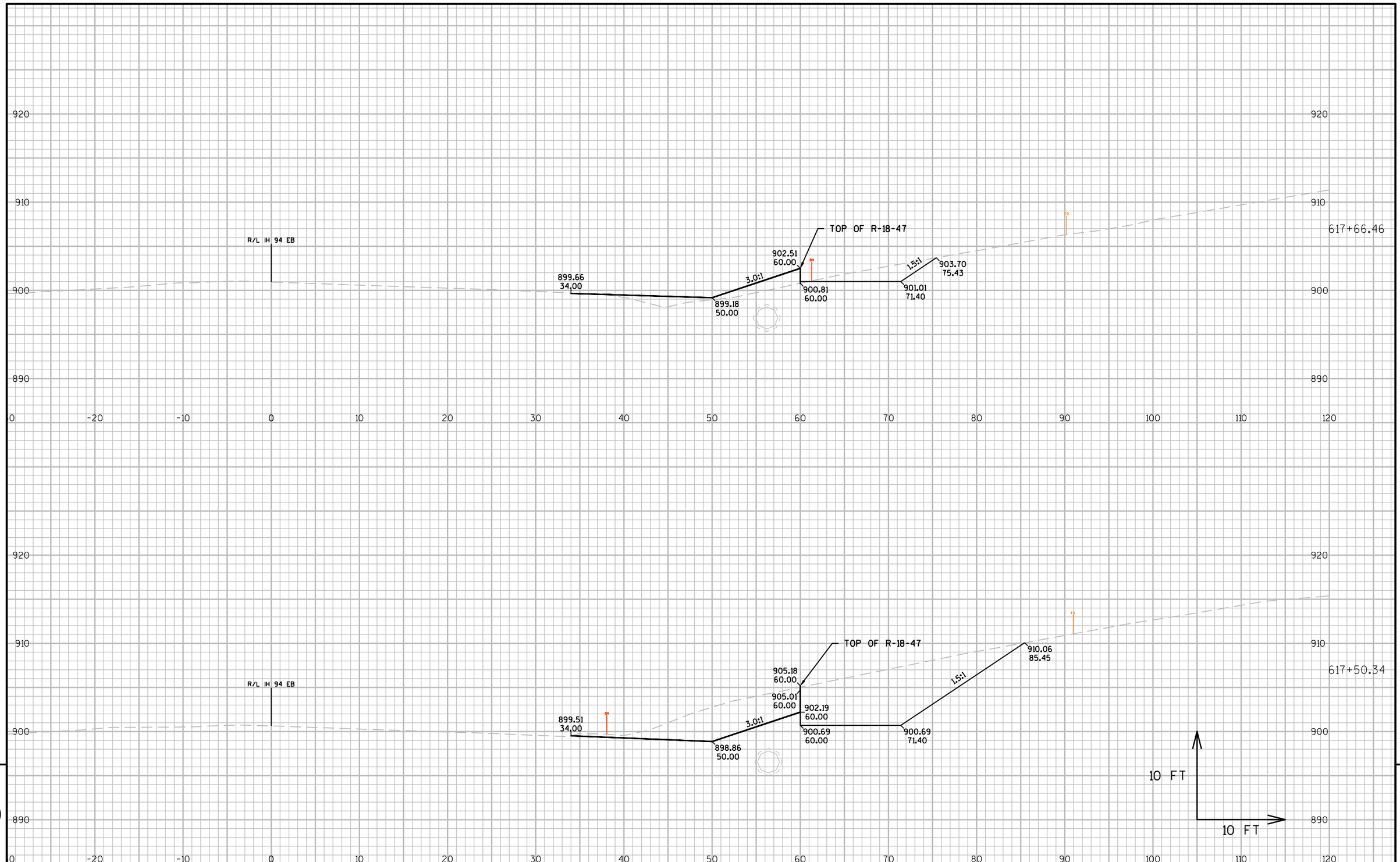
PLOT DATE : 1/9/2017 3:22 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 EB AT HOBBS RD.	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-47_XS 1078.DWG
LAYOUT NAME - R-18-47 - (5)

PLOT DATE : 1/9/2017 3:22 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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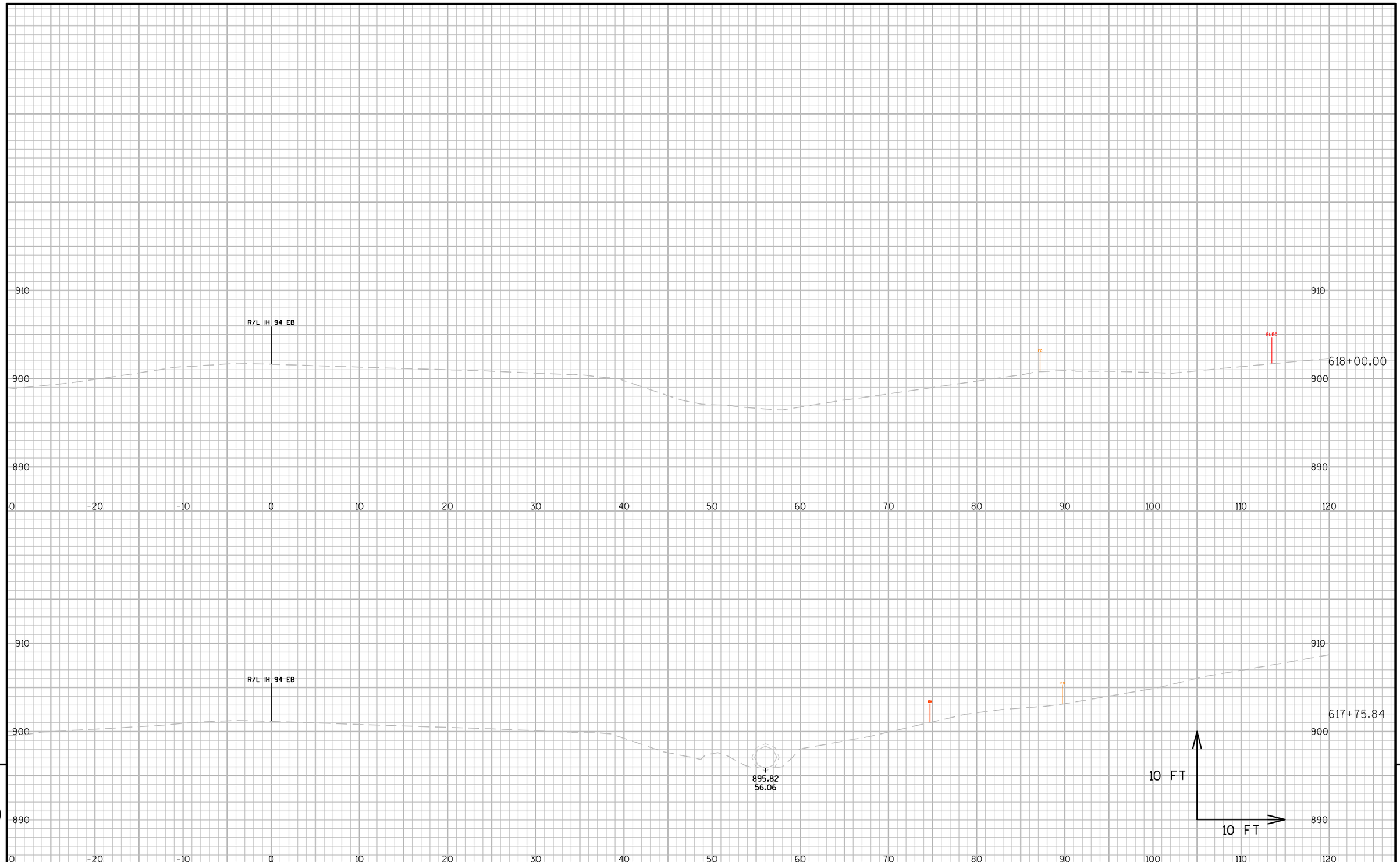
9

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 EB AT HOBBS RD.	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-47_XS 1078.DWG
LAYOUT NAME - R-18-47 - (6)

PLOT DATE : 1/9/2017 3:23 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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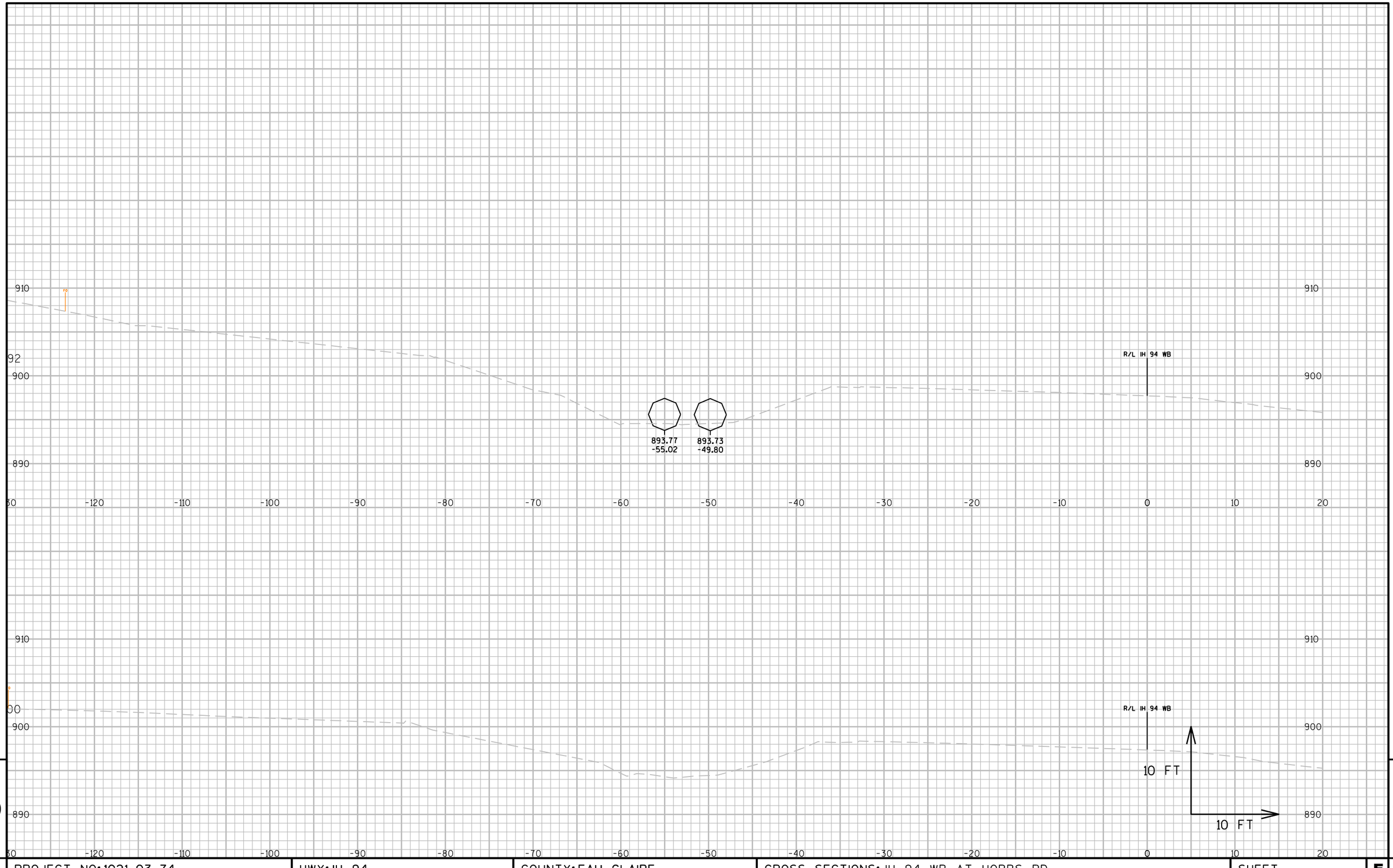
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 EB AT HOBBS RD.	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-47_XS 1078.DWG
LAYOUT NAME - R-18-47 - (7)

PLOT DATE : 1/9/2017 3:23 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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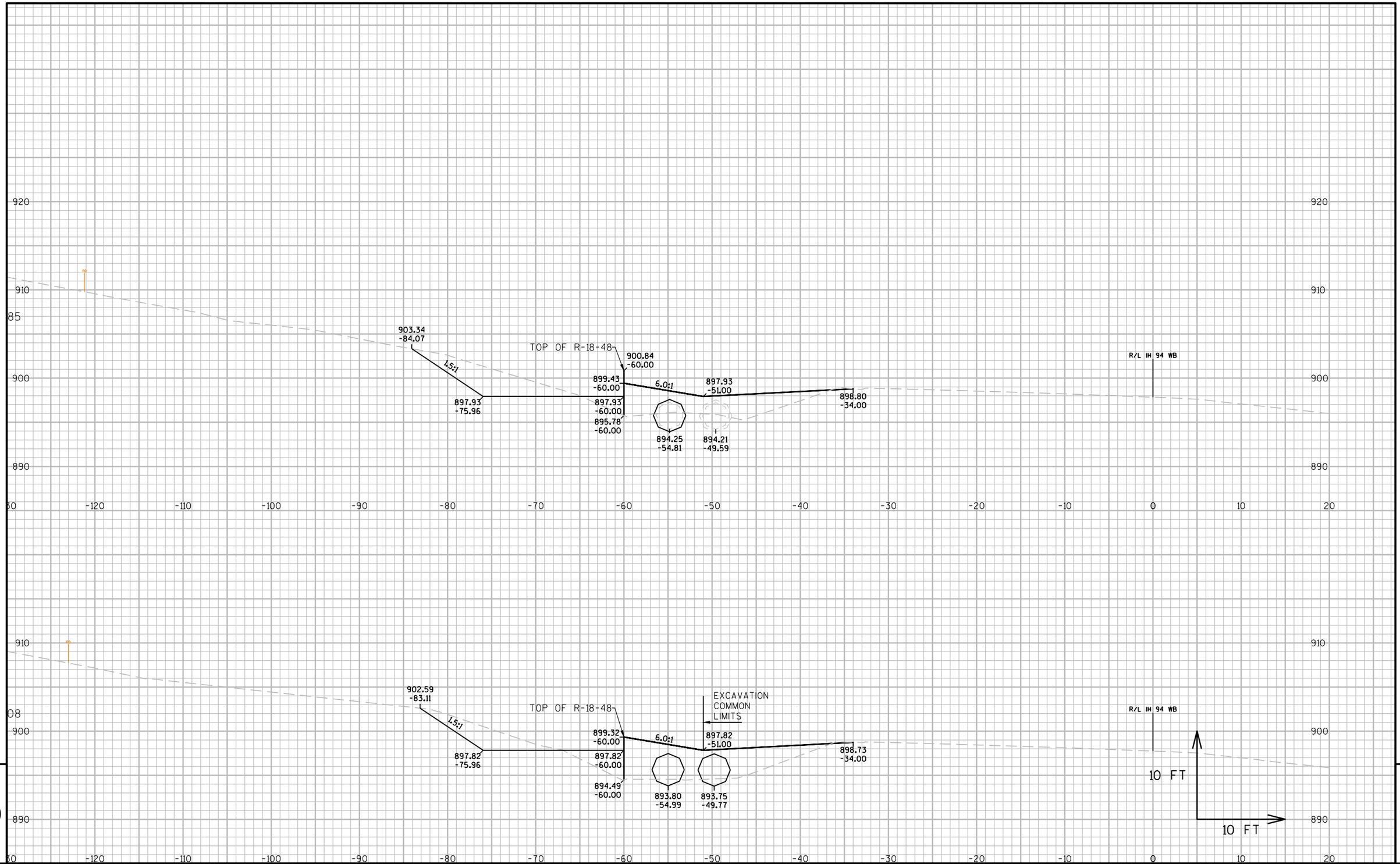
9

PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-48_XS_1078.DWG
LAYOUT NAME - R-18-48 - (2)

PLOT DATE : 1/9/2017 3:28 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT

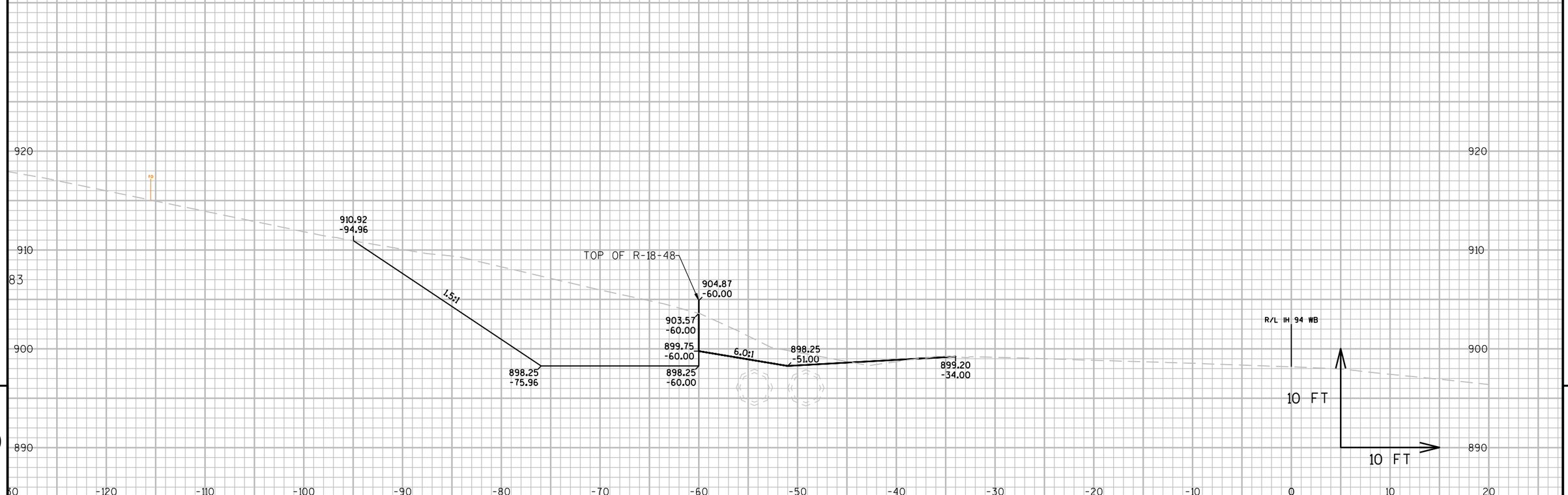


PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-48_XS_1078.DWG
LAYOUT NAME - R-18-48 - (3)

PLOT DATE : 1/9/2017 3:29 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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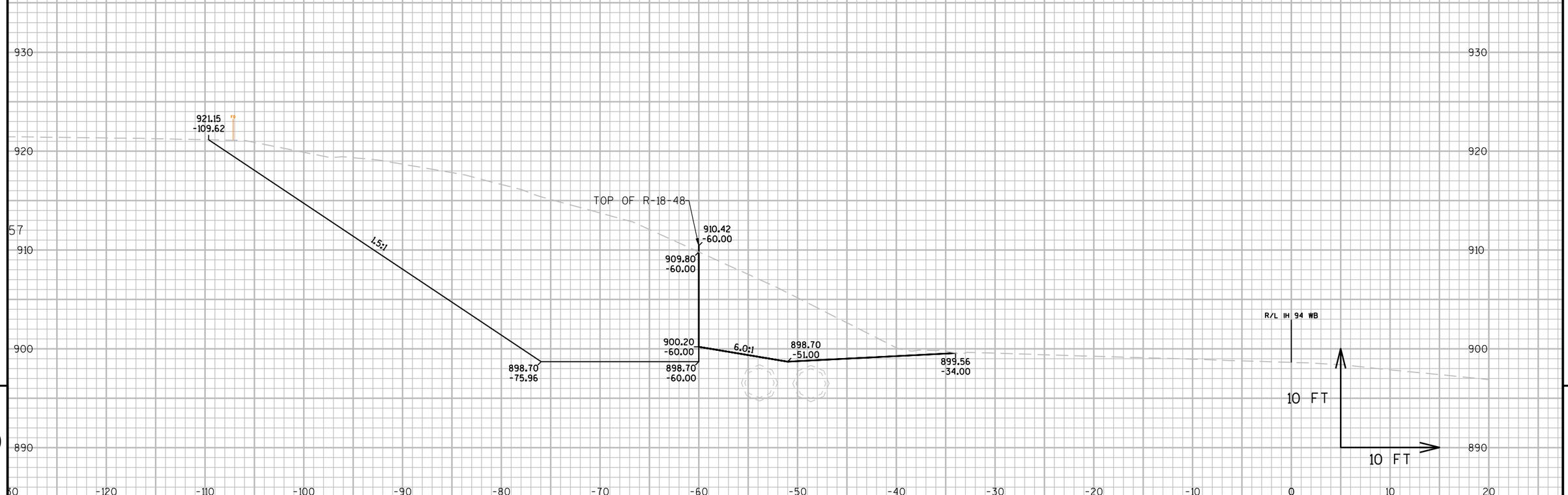
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-48_XS_1078.DWG
LAYOUT NAME - R-18-48 - (4)

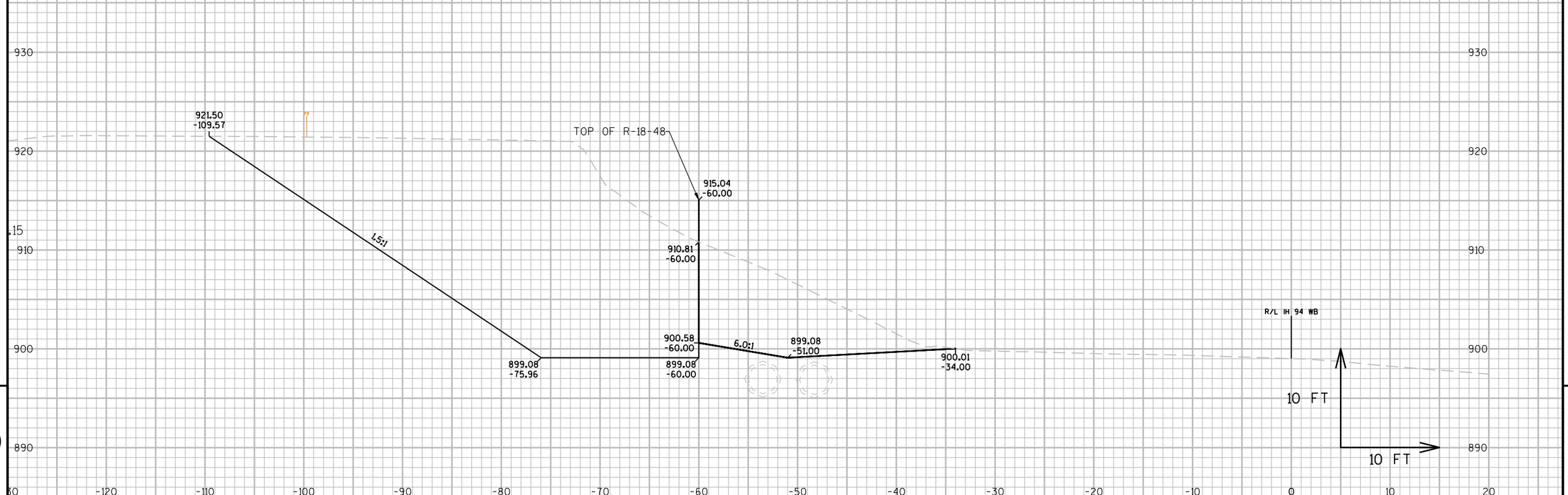
PLOT DATE : 1/9/2017 3:29 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-48_XS_1078.DWG
LAYOUT NAME - R-18-48 - (5)

PLOT DATE : 1/9/2017 3:29 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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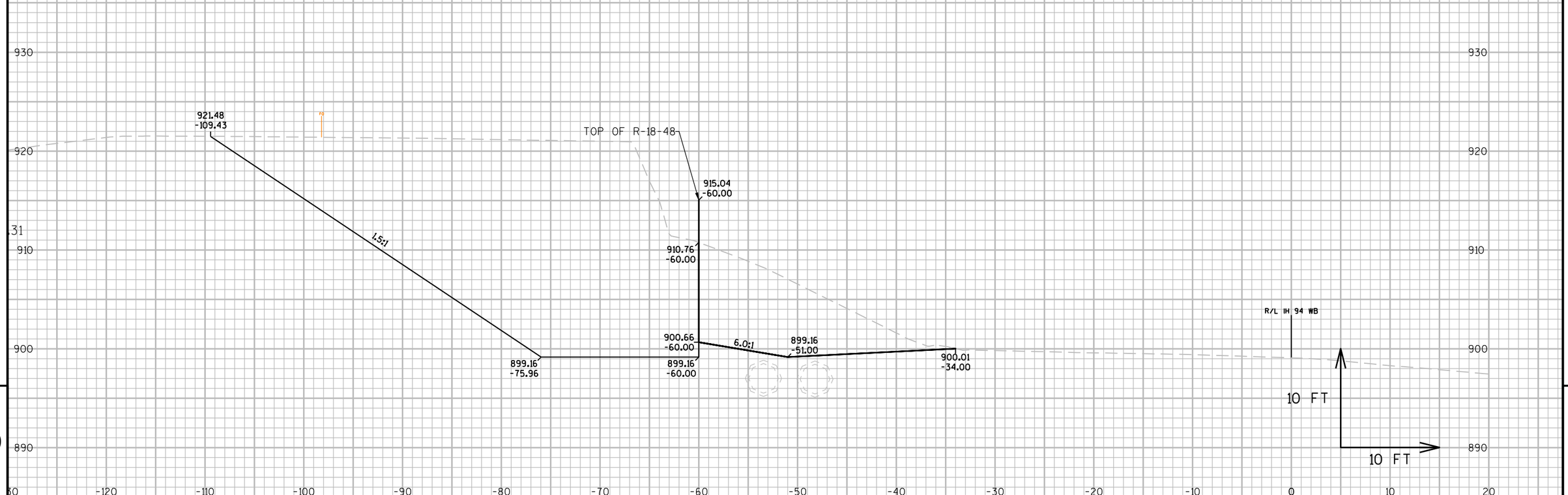
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-48_XS_1078.DWG
LAYOUT NAME - R-18-48 - (6)

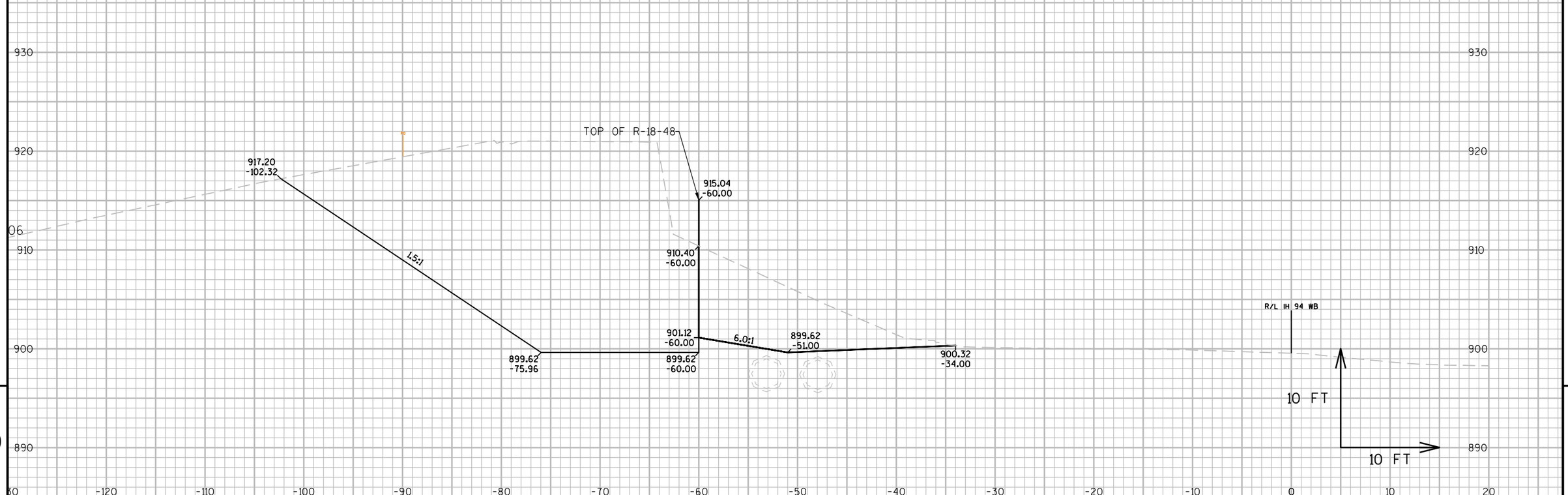
PLOT DATE : 1/9/2017 3:29 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-48_XS_1078.DWG
LAYOUT NAME - R-18-48 - (7)

PLOT DATE : 1/9/2017 3:30 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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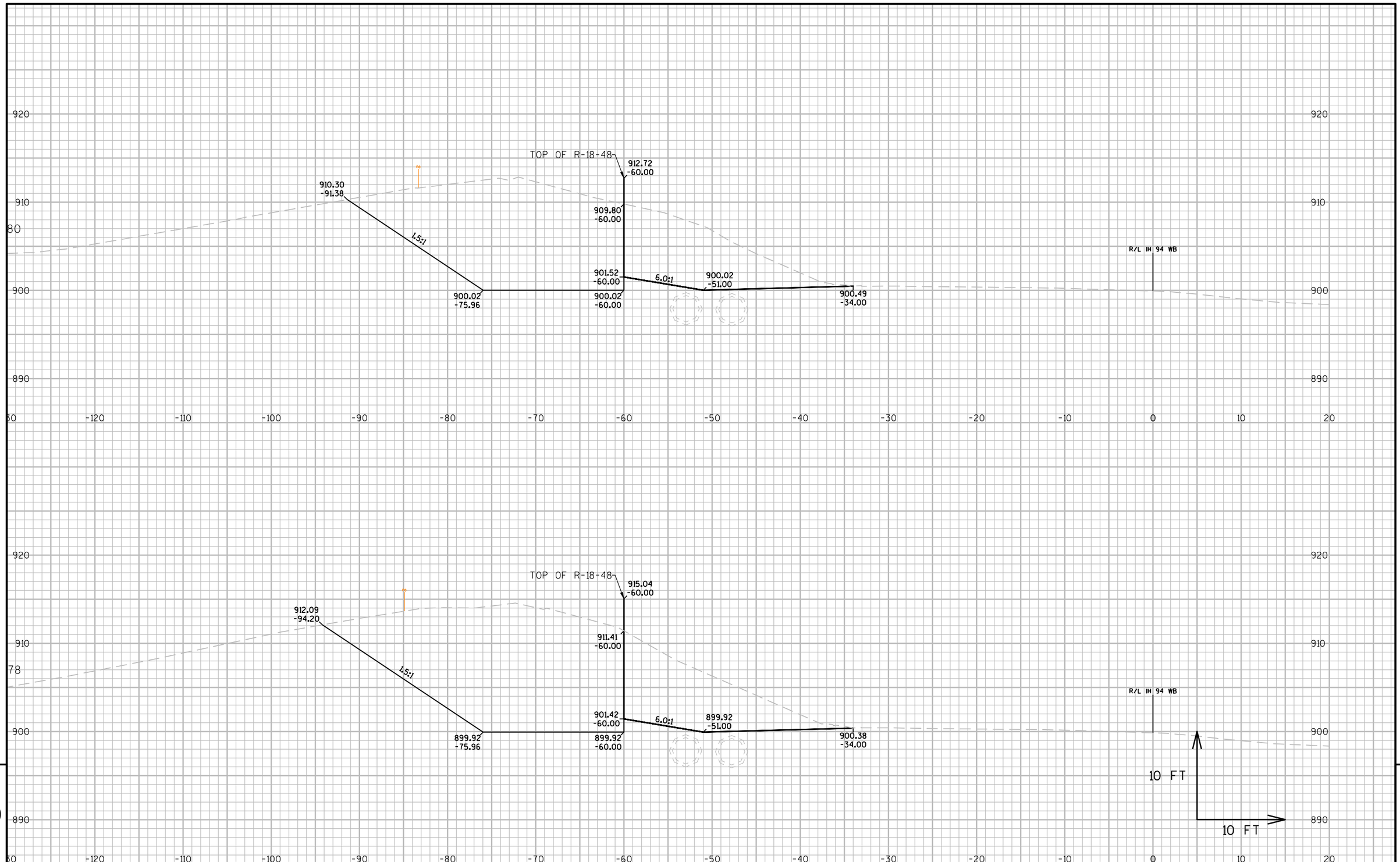
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-48_XS_1078.DWG
LAYOUT NAME - R-18-48 - (8)

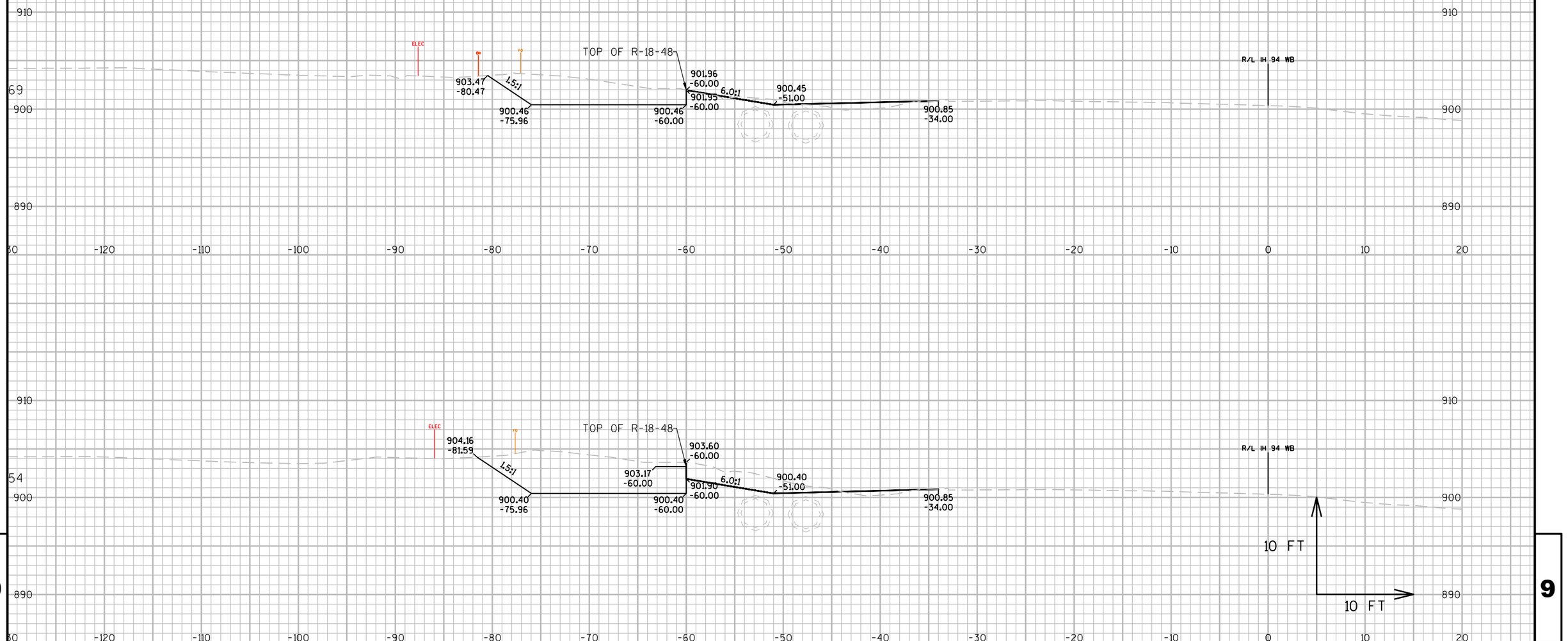
PLOT DATE : 1/9/2017 3:30 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-48_XS_1078.DWG
LAYOUT NAME - R-18-48 - (9)

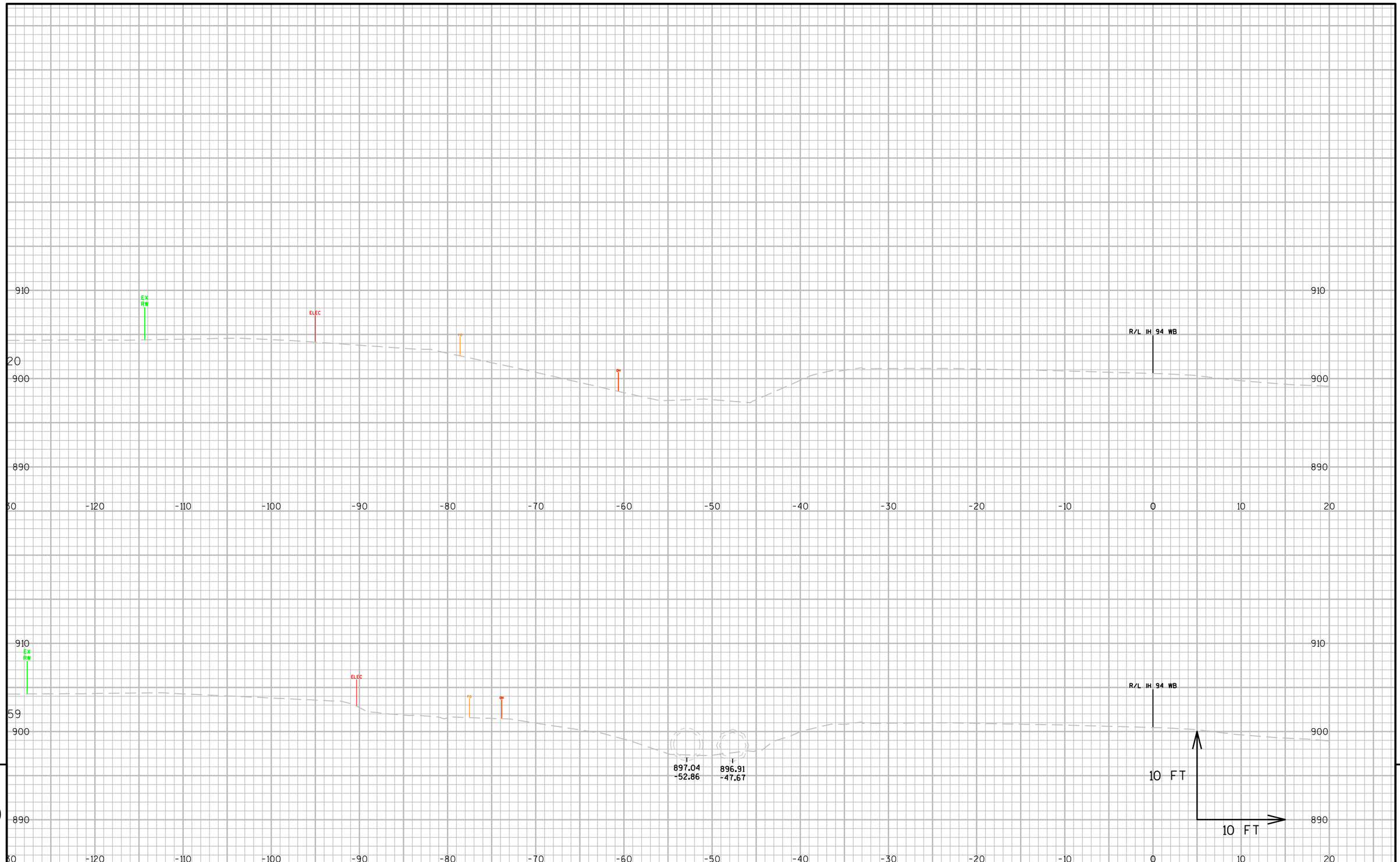
PLOT DATE : 1/9/2017 3:30 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-48_XS_1078.DWG
LAYOUT NAME - R-18-48 - (10)

PLOT DATE : 1/9/2017 3:30 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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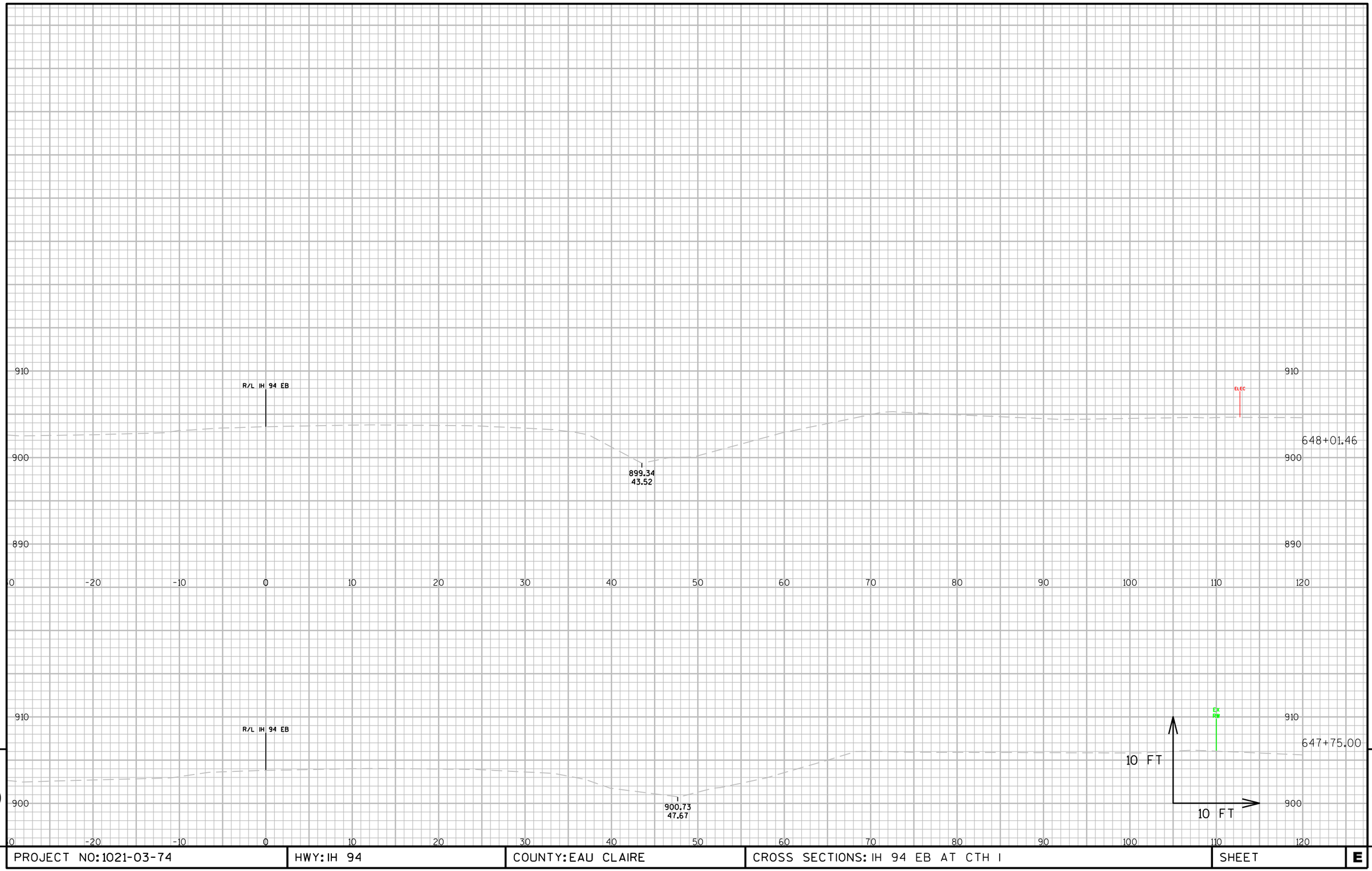
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT HOBBS RD	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-48_XS_1078.DWG
LAYOUT NAME - R-18-48 - (11)

PLOT DATE : 1/9/2017 3:31 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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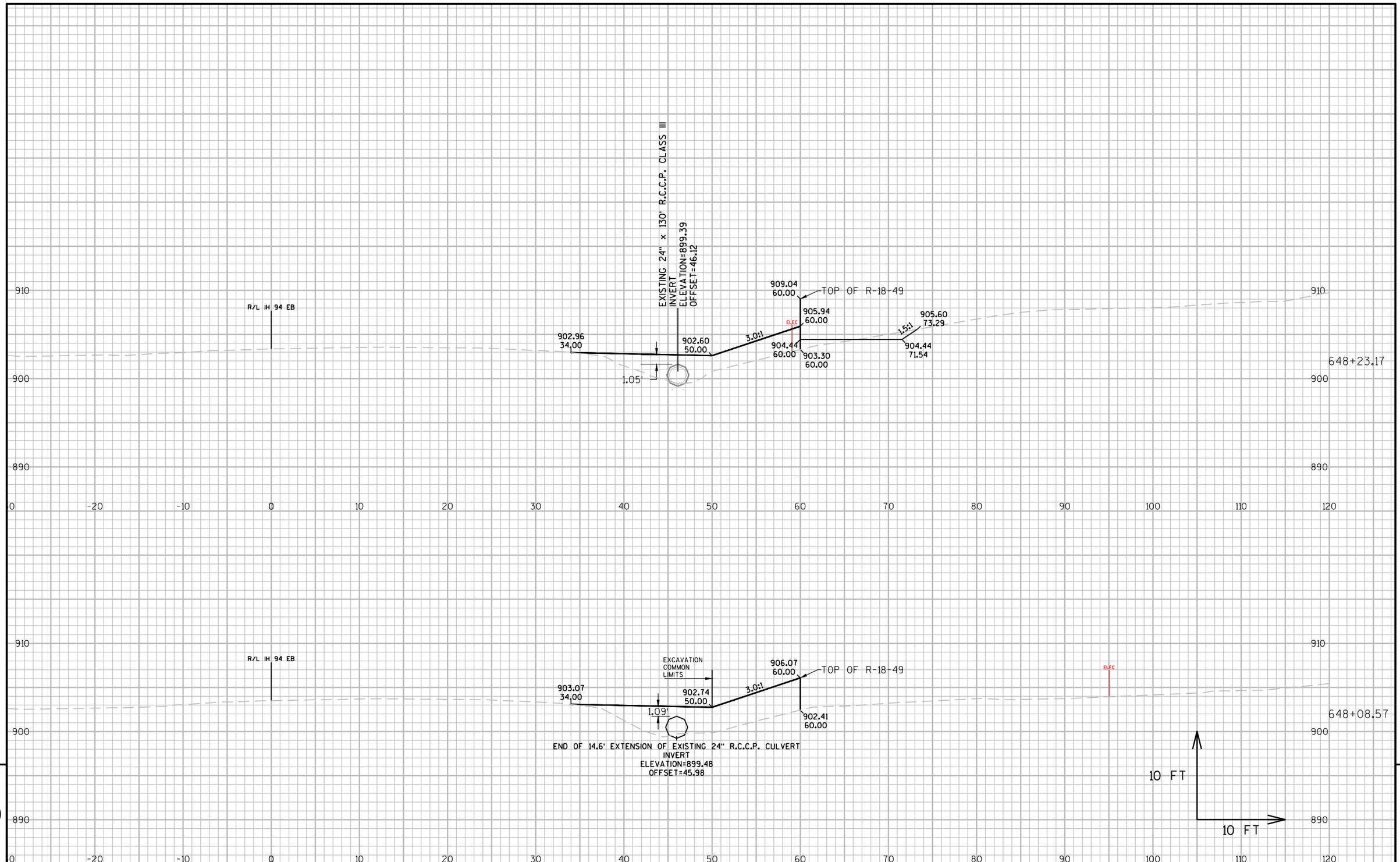
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 EB AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-49_XS 1078.DWG
LAYOUT NAME - R-18-49 - (2)

PLOT DATE : 1/9/2017 3:35 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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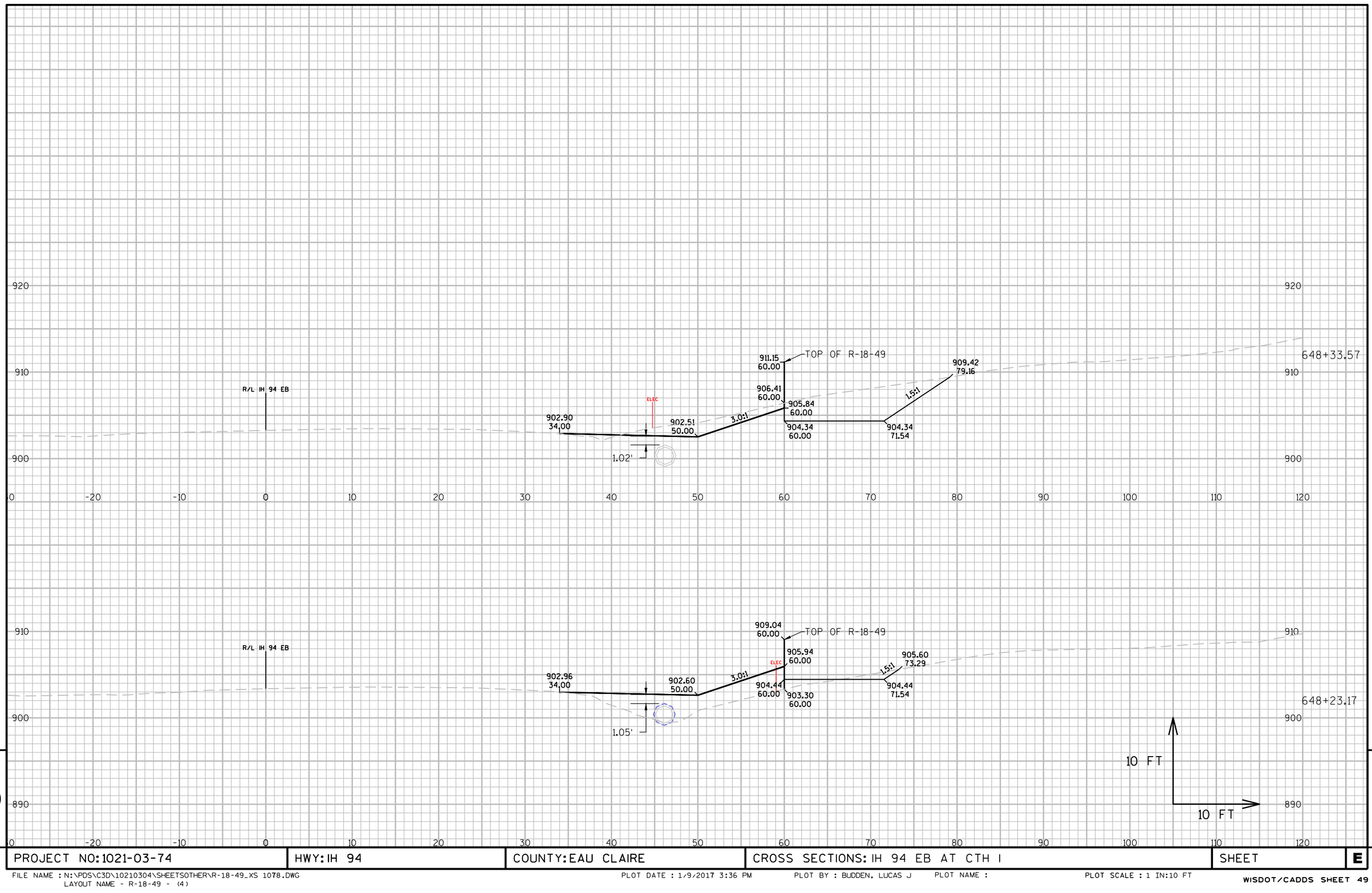
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 EB AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-49_XS 1078.DWG
LAYOUT NAME - R-18-49 - (3)

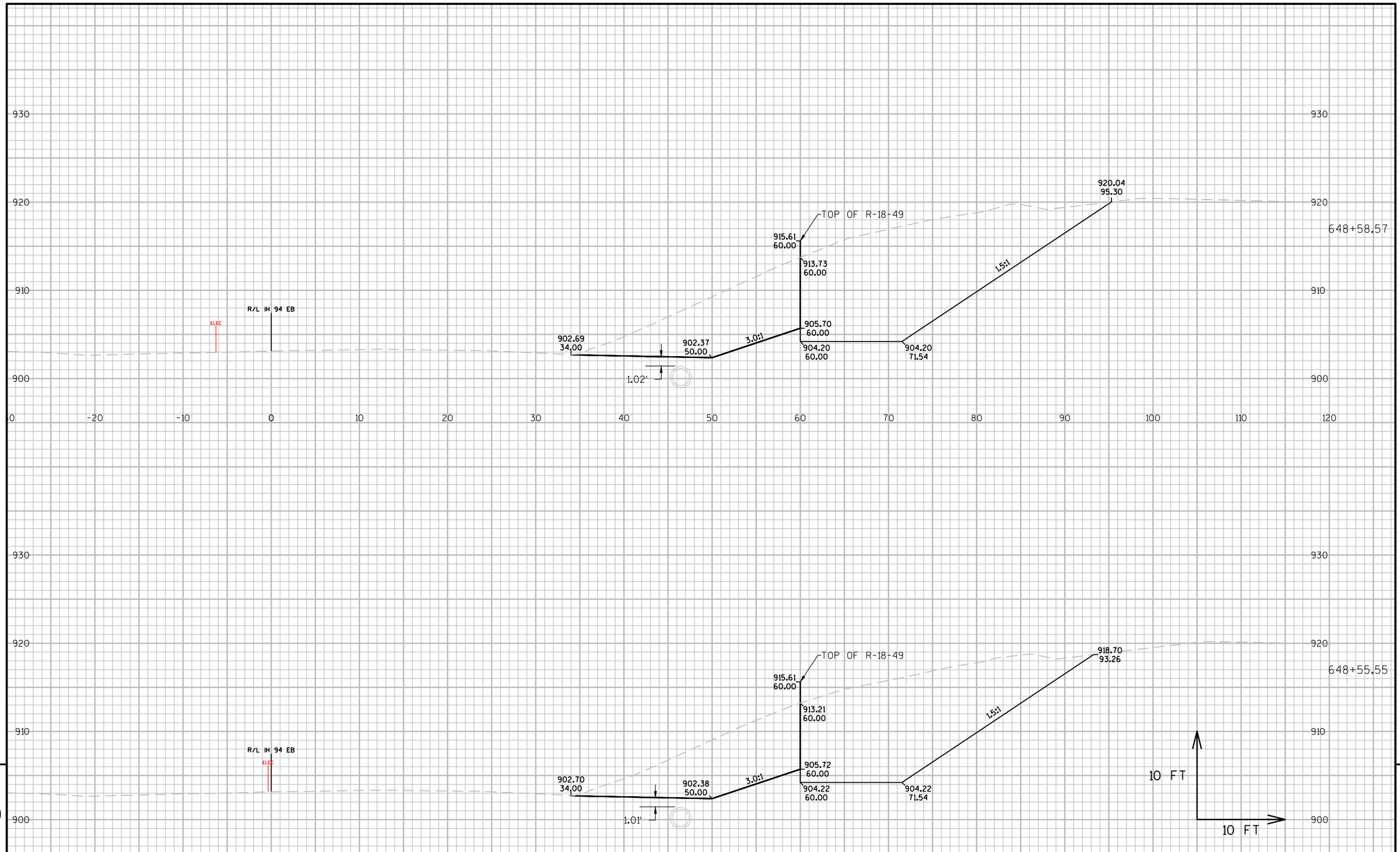
PLOT DATE : 1/9/2017 3:35 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 EB AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-49_XS 1078.DWG
LAYOUT NAME - R-18-49 - (4)

PLOT DATE : 1/9/2017 3:36 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 EB AT CTH I	SHEET	E

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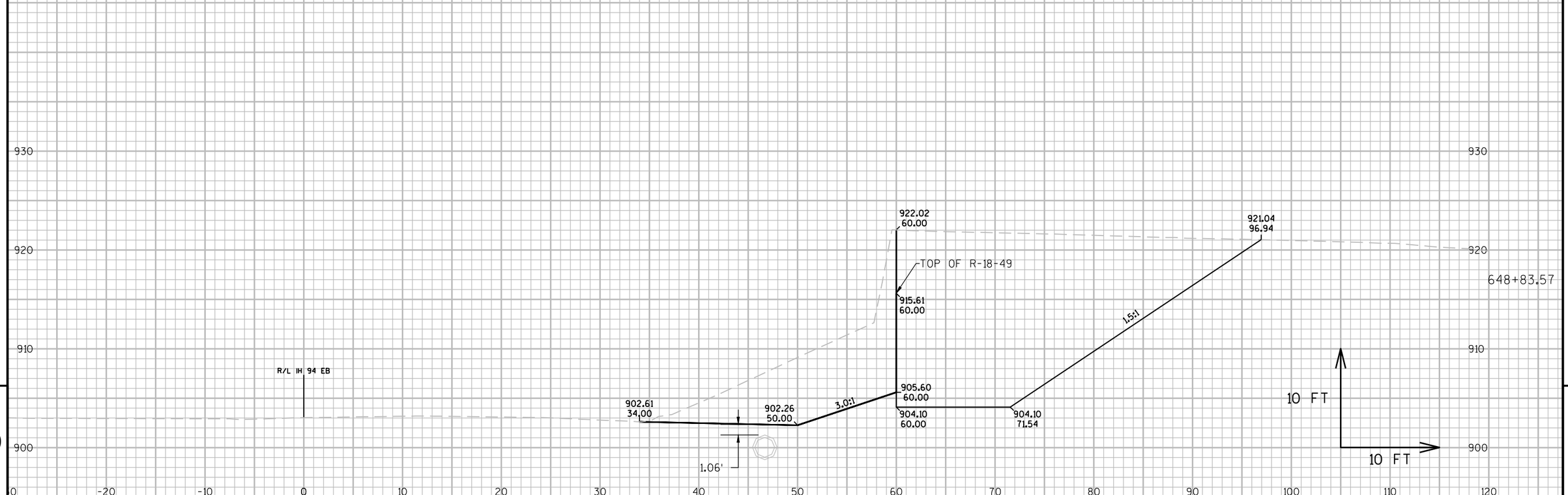
FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-49_XS 1078.DWG
LAYOUT NAME - R-18-49 - (5)

PLOT DATE : 1/9/2017 3:36 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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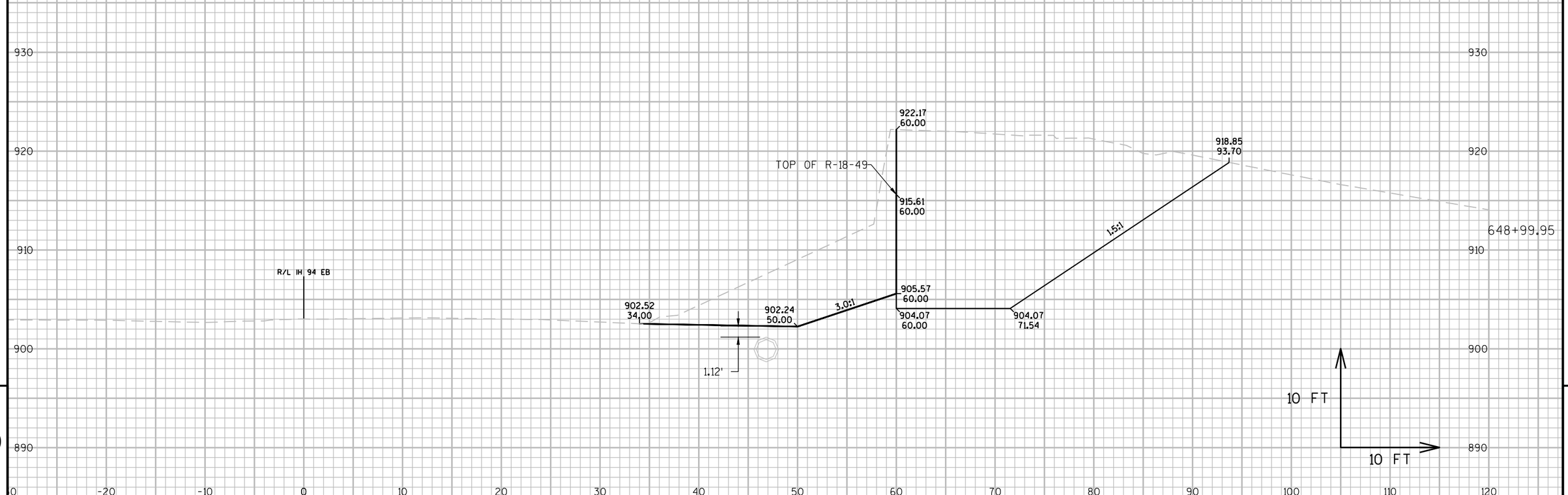
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 EB AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-49_XS 1078.DWG
LAYOUT NAME - R-18-49 - (6)
PLOT DATE : 1/9/2017 3:36 PM
PLOT BY : BUDDEN, LUCAS J
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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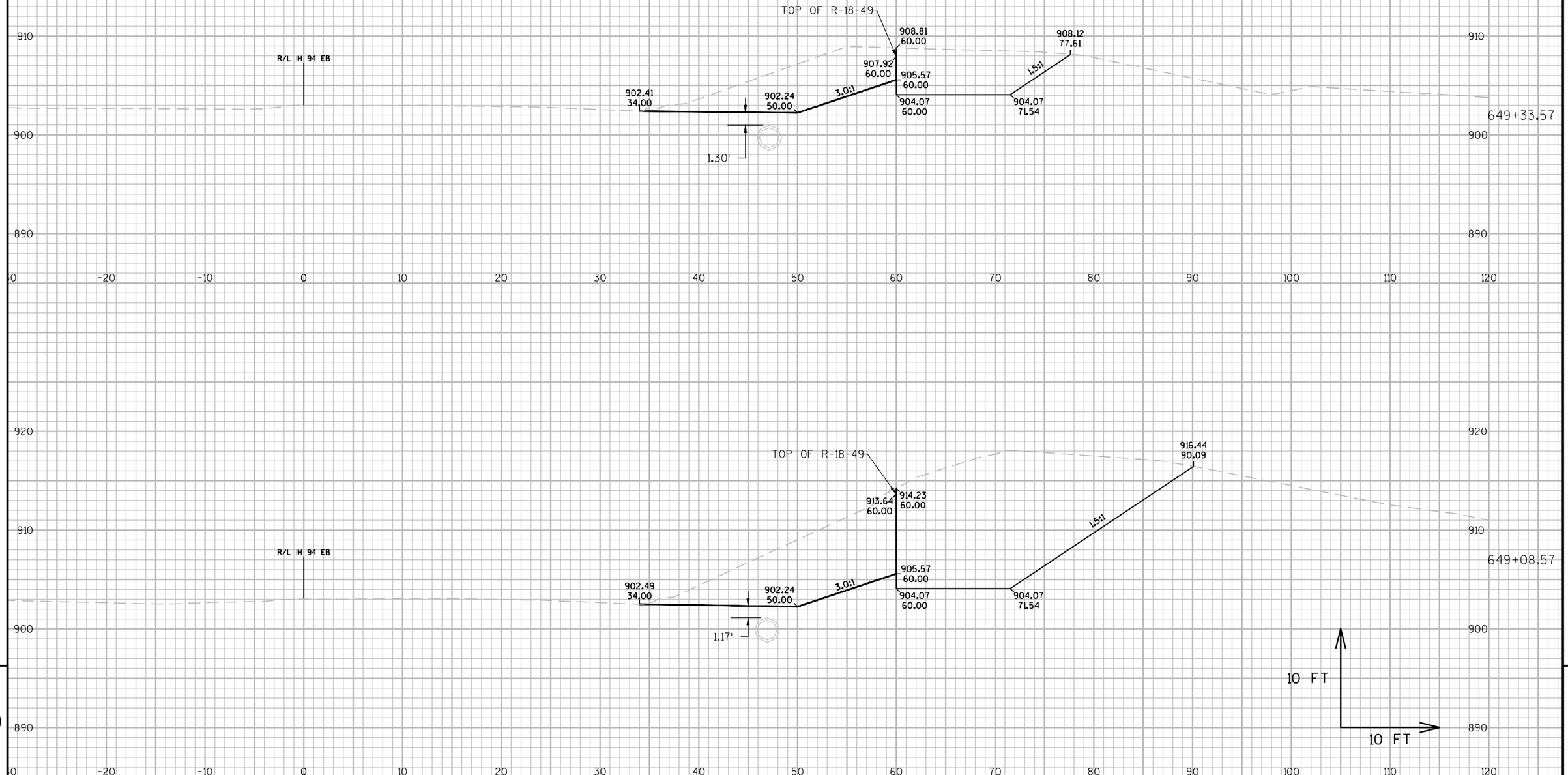
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 EB AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-49_XS 1078.DWG
LAYOUT NAME - R-18-49 - (7)
PLOT DATE : 1/9/2017 3:37 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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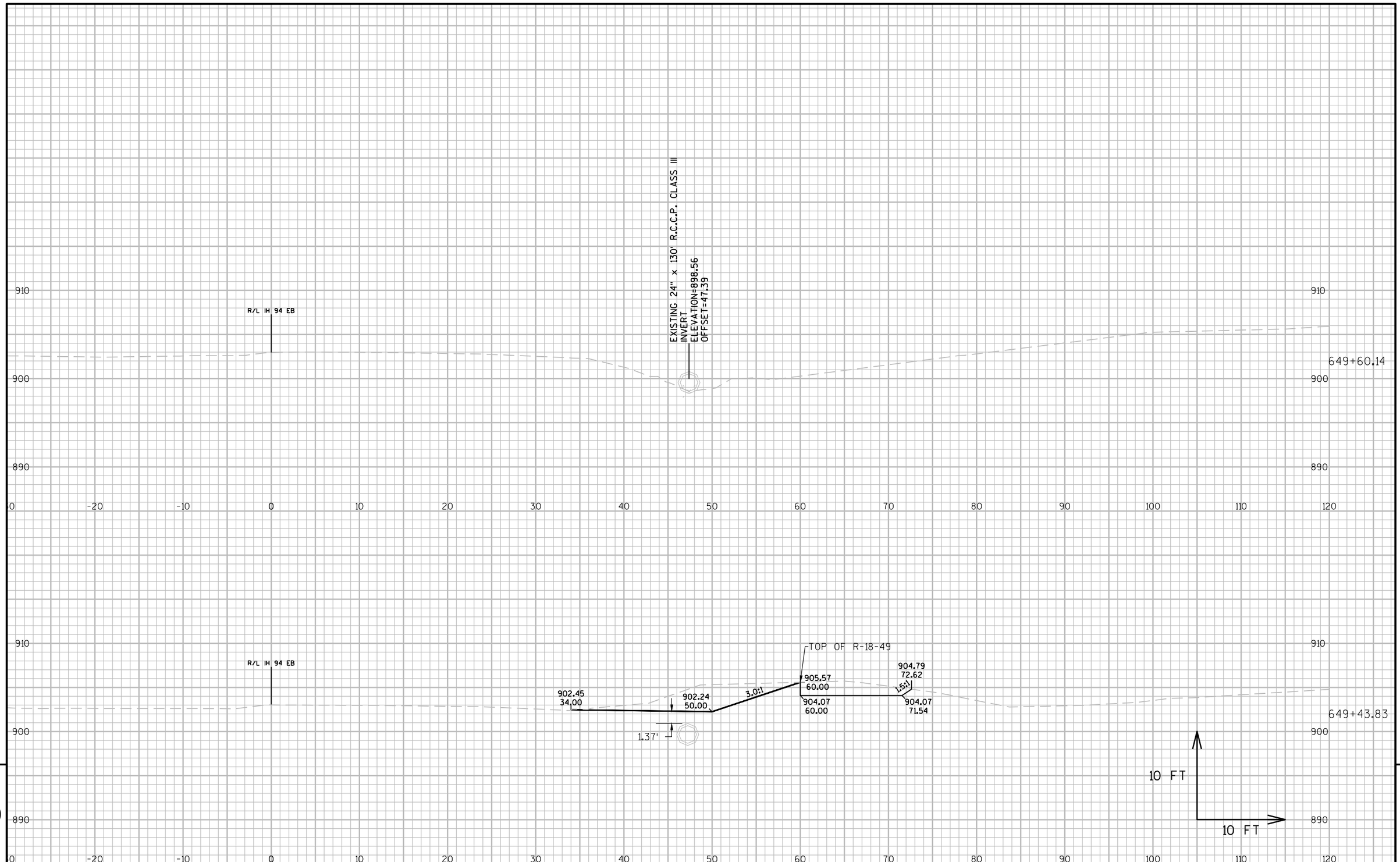
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 EB AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-49_XS 1078.DWG
LAYOUT NAME - R-18-49 - (8)

PLOT DATE : 1/9/2017 3:37 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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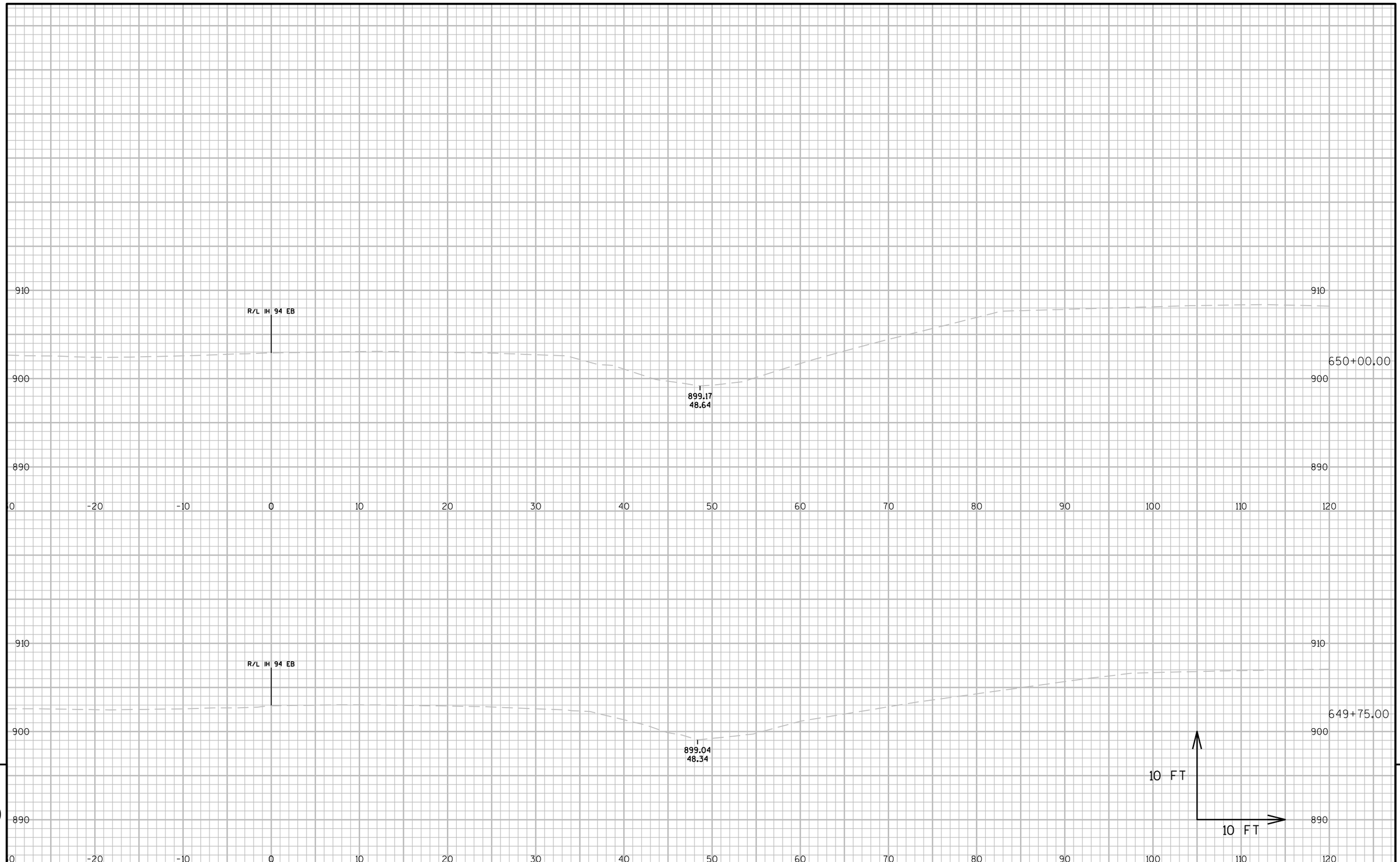
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 EB AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-49_XS 1078.DWG
LAYOUT NAME - R-18-49 - (9)

PLOT DATE : 1/9/2017 3:37 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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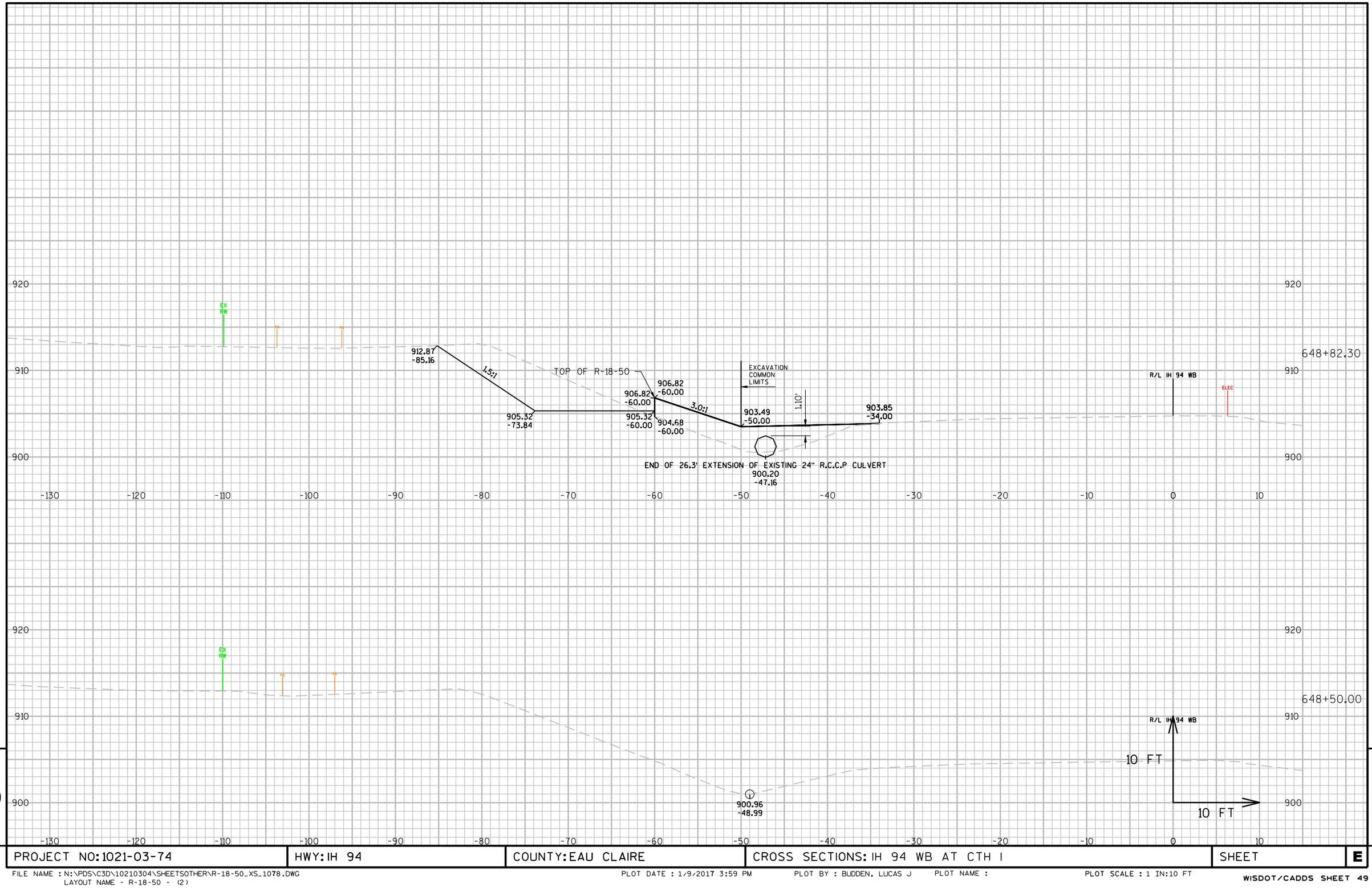
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 EB AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-49_XS 1078.DWG
LAYOUT NAME - R-18-49 - (10)

PLOT DATE : 1/9/2017 3:38 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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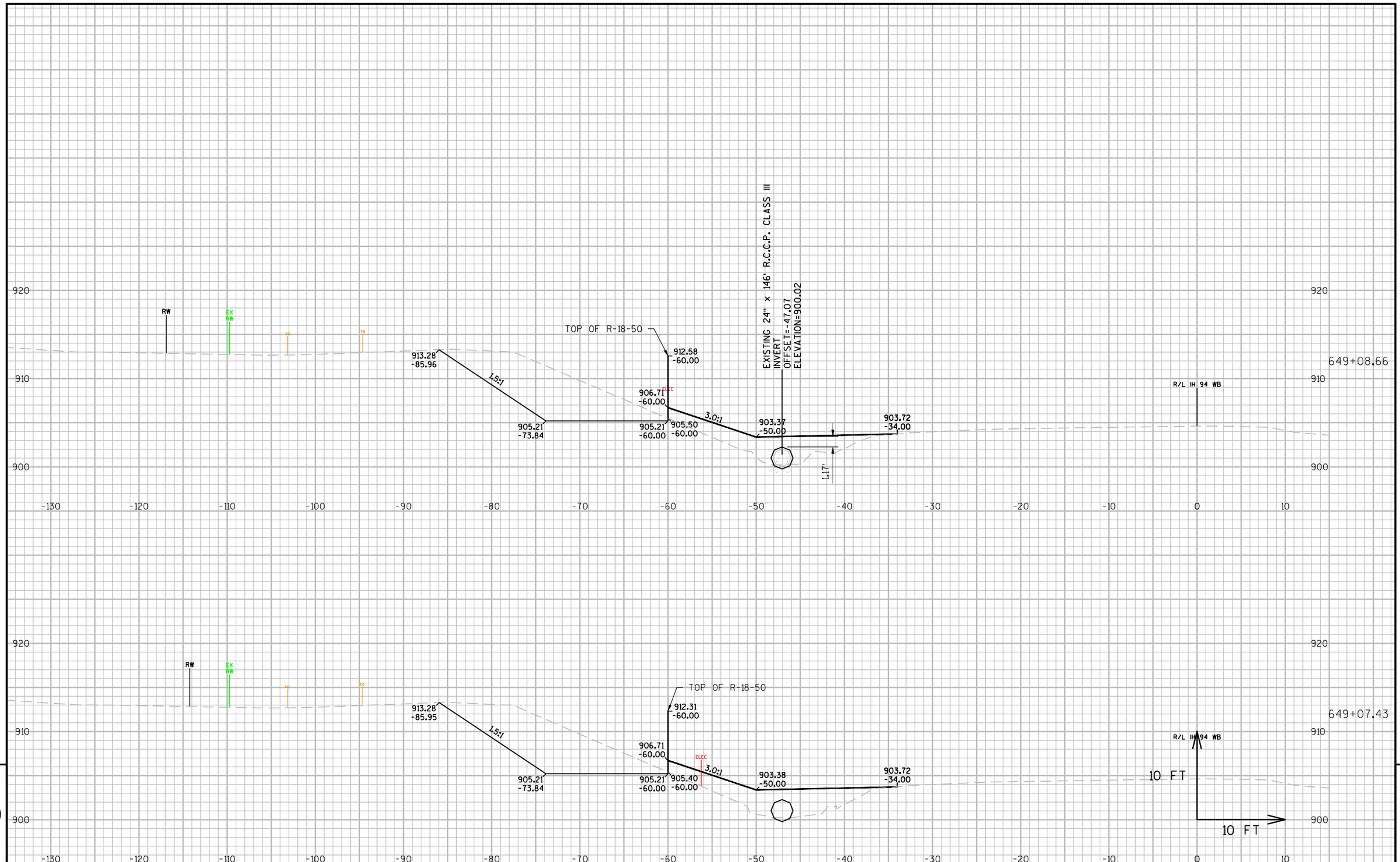
PROJECT NO:1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-50_XS_1078.DWG
LAYOUT NAME - R-18-50 - (2)

PLOT DATE : 1/9/2017 3:59 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT

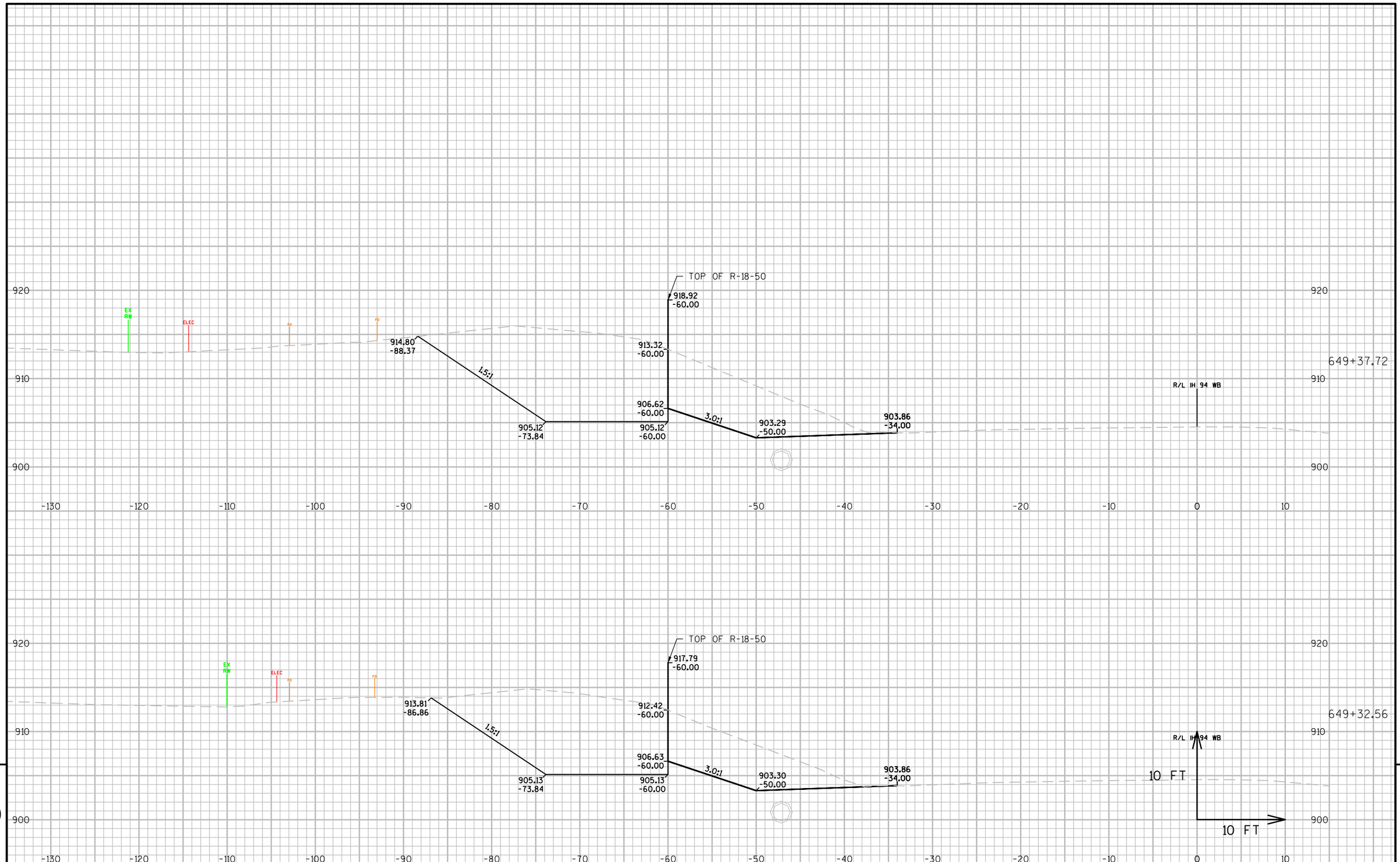


PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-50_XS_1078.DWG
LAYOUT NAME - R-18-50 - (3)

PLOT DATE : 1/9/2017 3:59 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

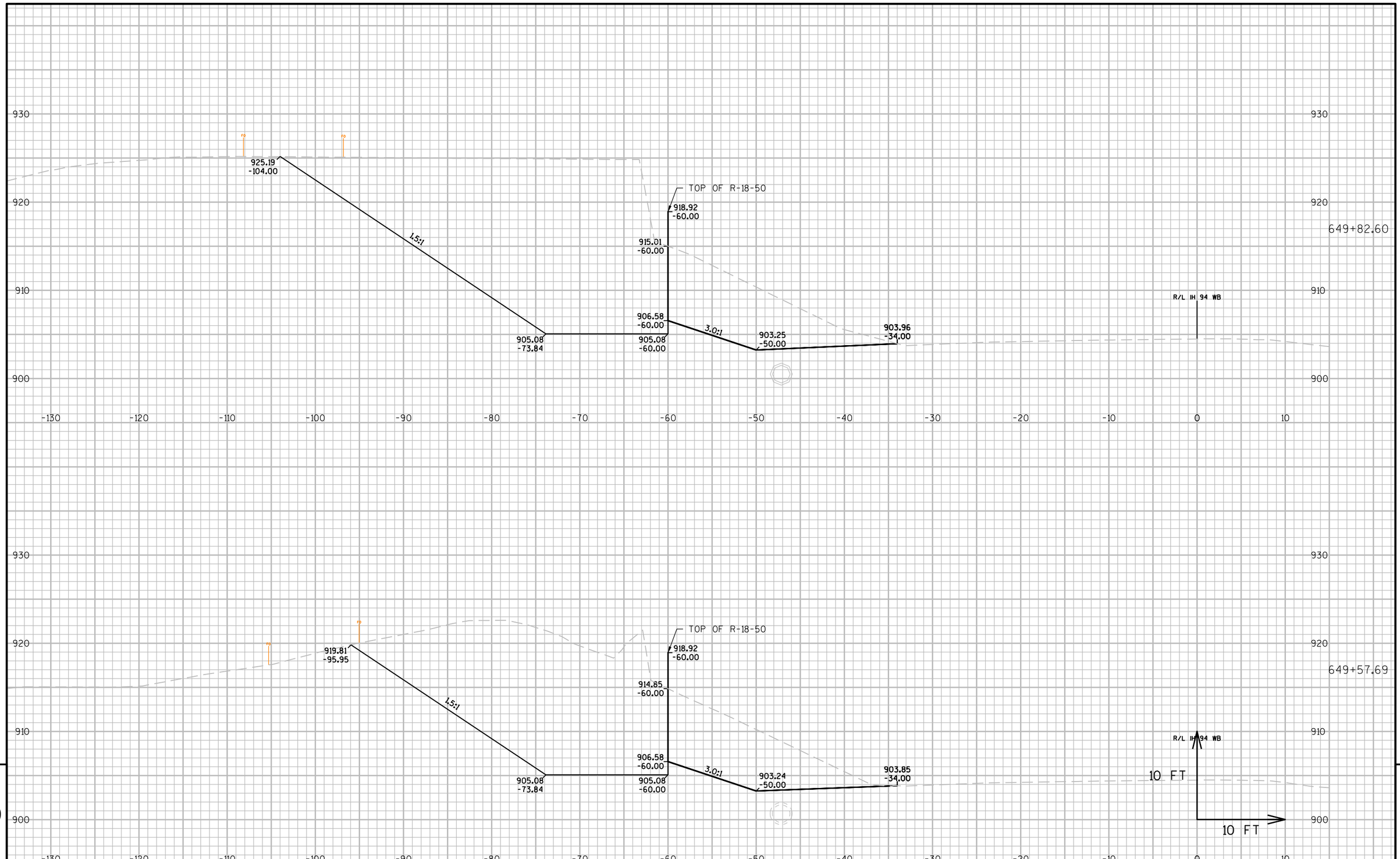


PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-50_XS_1078.DWG
LAYOUT NAME - R-18-50 - (4)

PLOT DATE : 1/9/2017 4:00 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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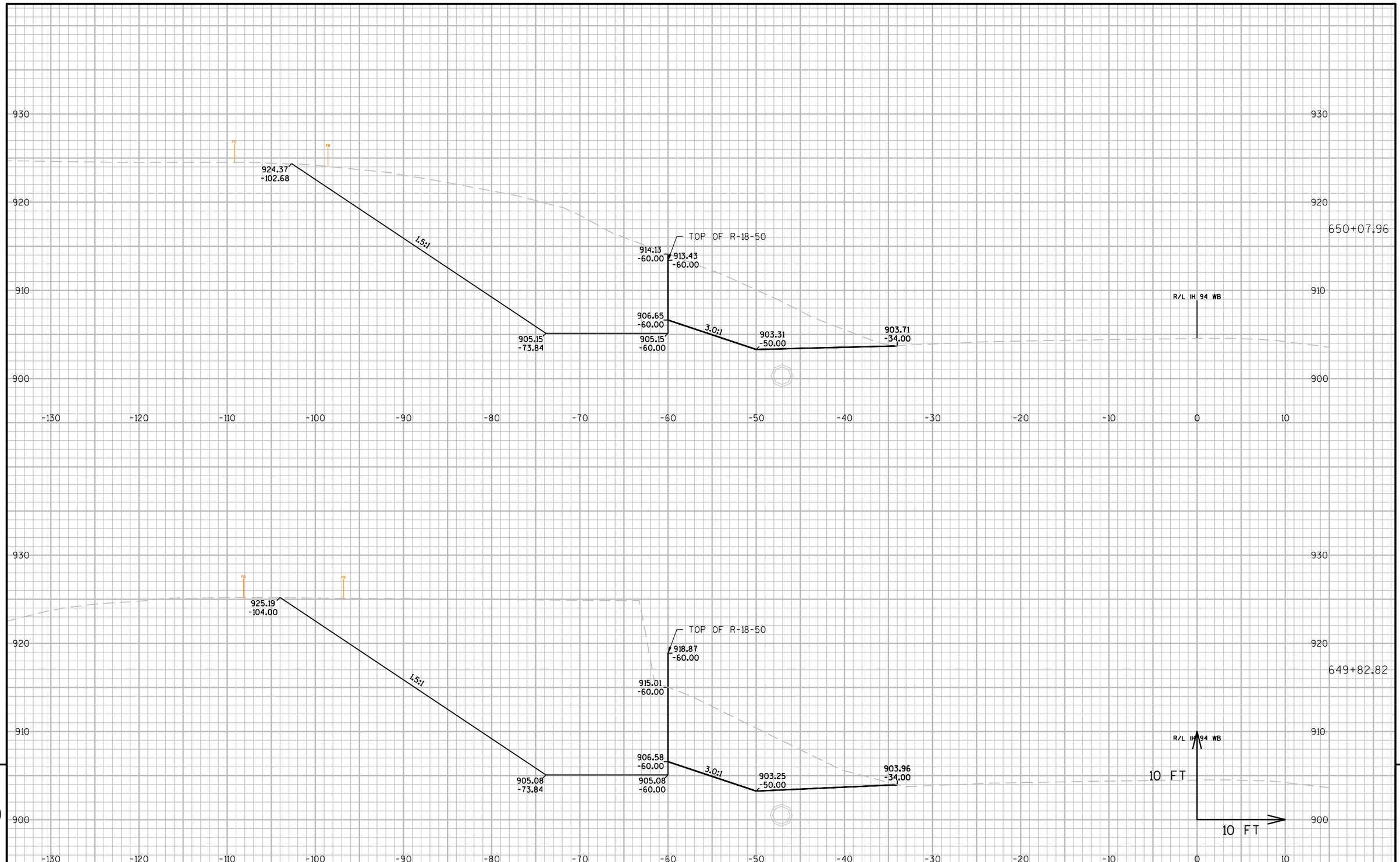
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-50_XS_1078.DWG
LAYOUT NAME - R-18-50 - (5)

PLOT DATE : 1/9/2017 4:00 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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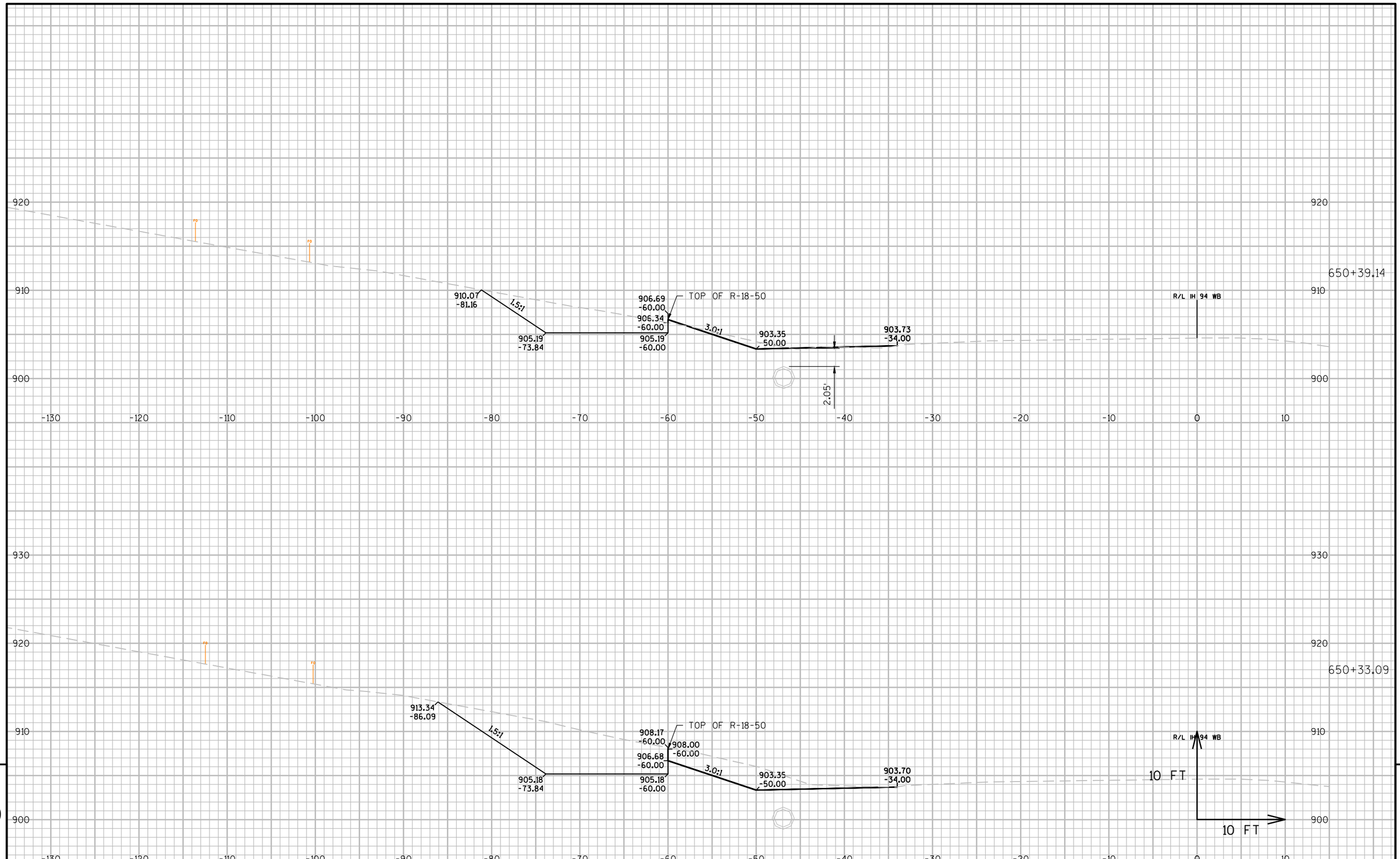
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT CTH I	SHEET	E

9

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-50_XS_1078.DWG
LAYOUT NAME - R-18-50 - (6)

PLOT DATE : 1/9/2017 4:00 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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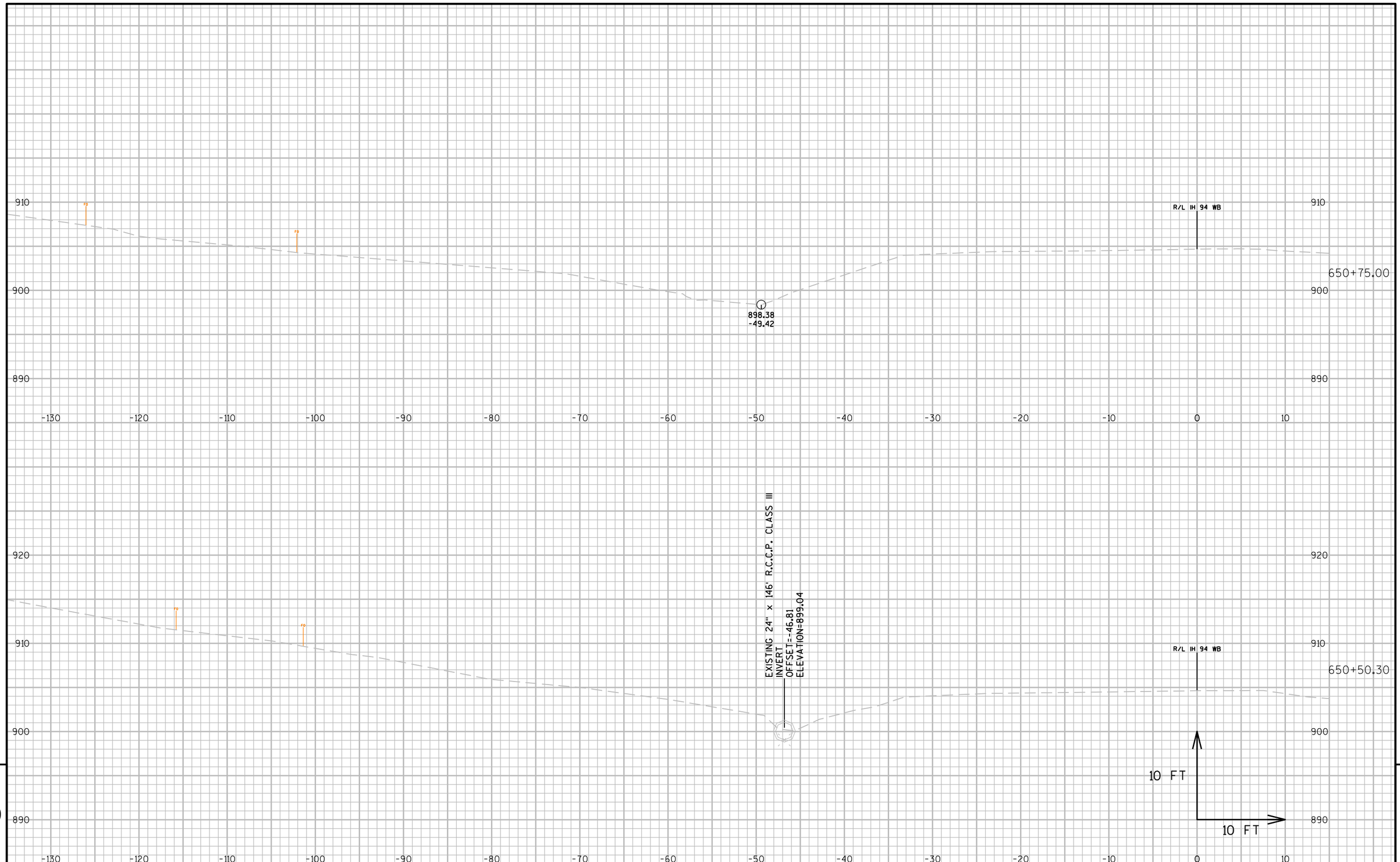
PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT CTH I	SHEET	E

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-50_XS_1078.DWG
LAYOUT NAME - R-18-50 - (7)

PLOT DATE : 1/9/2017 4:01 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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PROJECT NO: 1021-03-74	HWY: IH 94	COUNTY: EAU CLAIRE	CROSS SECTIONS: IH 94 WB AT CTH I	SHEET	E

9

FILE NAME : N:\PDS\C3D\10210304\SHEETSOTHER\R-18-50_XS_1078.DWG
LAYOUT NAME - R-18-50 - (8)

PLOT DATE : 1/9/2017 4:01 PM PLOT BY : BUDDEN, LUCAS J PLOT NAME : PLOT SCALE : 1 IN:10 FT