PROJECT ID: 2984-34-71
WITH: N/A

COUNTY: MILWAUKEE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	2	Planting
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	~~Sign Plates~~
Section No.	8	~~Structure Plans~~
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 58

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2984-34-71	WIS2014370	——

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

BEER LINE BICYCLE TRAIL EXTENSION

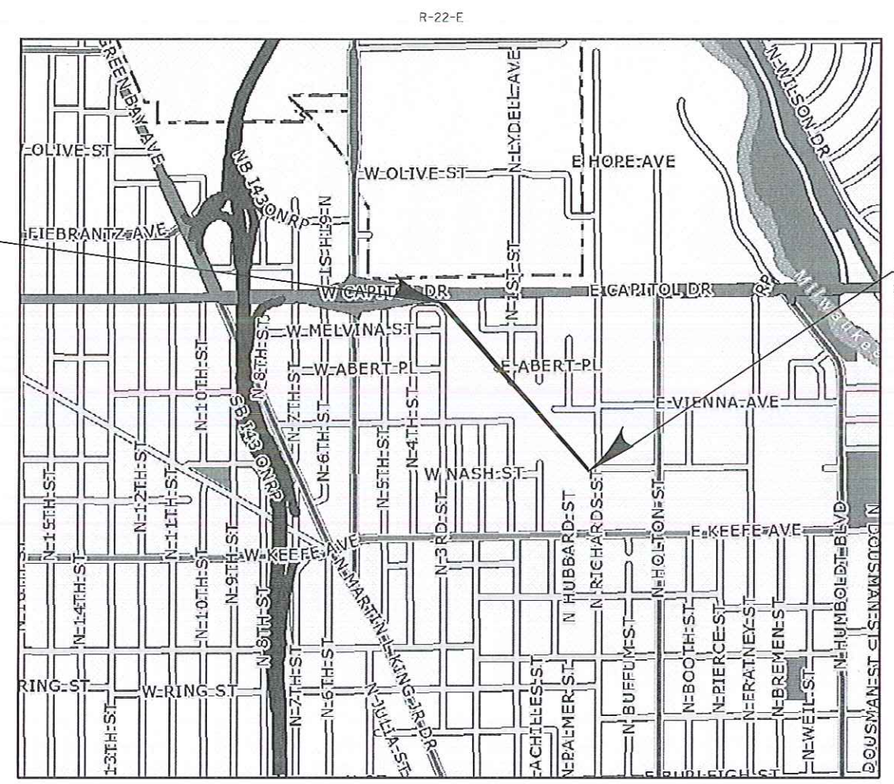
N. RICHARDS STREET TO CAPITOL DRIVE
MILWAUKEE COUNTY

STATE PROJECT NUMBER
2984-34-71

N

END PROJECT 2984-34-71
STA. 42+04.56

BEGIN PROJECT 2984-34-71
STA. 10+29.88
Y: 315673.71
X: 606494.39



R-22-E

LAYOUT
SCALE 0 500 FT 1000 FT

TOTAL NET LENGTH OF CENTERLINE =0.603 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MILWAUKEE COUNTY - NAD 83.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD88 (2007)

THIS IS A FEDERALLY FUNDED PROJECT WITH DISCRETIONARY DBE PARTICIPATION

ACCEPTED FOR
CITY OF MILWAUKEE

(Date) (Signature)
JEFFEREY POLENSKE

ORIGINAL PLANS PREPARED BY

KSA K. SINGH & ASSOCIATES, INC.
Engineers, Scientists and Environmental Consultants

WISCONSIN
MUNZER R. HAIDAR
27021-006
WAUKESHA, WI
PROFESSIONAL ENGINEER

9/9/2014
(Date) (Signature)

E

DESIGN DESIGNATION

A.A.D.T.	2014	=	N/A
A.A.D.T.	2040	=	N/A
D.H.V.	2012	=	N/A
D.D.		=	N/A
T. (% AADT)		=	N/A
DESIGN SPEED		=	N/A
ESALS		=	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
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
FIBER OPTIC — FO
GAS — G
SANITARY SEWER — SAN
STORM SEWER — SS
TELEPHONE — T
WATER — W
UTILITY PEDESTAL
POWER POLE
TELEPHONE POLE

2

GENERAL NOTES

THE LOCATION OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.

RADII, ELEVATIONS, AND DIMENSIONS ARE GIVEN AT THE PAVEMENT EDGES, UNLESS OTHERWISE NOTED IN THE PLANS.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH PLAN TYPICAL SECTIONS. PLACE THE HMA PAVEMENT 10 FEET WIDE WITHOUT ANY LONGITUDINAL JOINTS.

ADJUST TRAFFIC CONTROL DEVICE LOCATIONS TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

EROSION CONTROL ITEMS SHOWN IN THE MISCELLANEOUS QUANTITIES ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS TO FIT FIELD CONDITIONS.

WETLANDS, WATERWAYS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.

THE HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON A UNIT WEIGHT OF 115 LBS/SY/IN OF DEPTH.

5-INCH HMA PAVEMENT TYPE E-0.3 SHALL BE CONSTRUCTED IN TWO (2) LAYERS.
LOWER LAYER SHALL BE 3.00-INCH & SHALL BE CONSTRUCTED WITH 12.50 mm NOMINAL SIZE AGGREGATE. THE UPPER LAYER SHALL BE 2.00-INCH & SHALL BE CONSTRUCTED WITH 12.50 mm NOMINAL SIZE AGGREGATE. ASPHALTIC MATERIAL FOR PLANT MIXES SHALL BE PG58-28 AND IS ESTIMATED AT 5.5%.

DESIGN CONTACT

MUNZER HAIDAR
3636 NORTH 124TH STREET
WAUWATOSA, WI 53222
(262)821-1171
mhaidar@ksaconsultants.com

UTILITIES

ELECTRIC/GAS

MR. LATROY BRUMFIELD
WE ENERGIES
333 W. EVERETT ST.
MILWAUKEE, WI 53203
PH: (414) 221-5617
LATROY.BRUMFIELD@WE-ENERGIES.COM

GAS

MR. GERARD HEJLIK
DESIGNER
WE ENERGIES
7301 W. CALUMET ROAD
MILWAUKEE, WI 53223
PH: (414) 362-5183
C: (414) 587-5191
F: (414) 362-5175
GERARD.HEJLIK@WE-ENERGIES.COM

UTILITES COORDINATOR

MUSA ABU-KHADER
UTILITY COORDINATOR OVERSITE
CITY OF MILWAUKEE
CITY OF MILWAUKEE MUNICIPAL BLDG.
841 NORTH BROADWAY RM. 710
MILWAUKEE, WI 53202
PH: (414)-286-2432

SEWER

ZAFAR YOUSUF
SEWER DESIGN AND MAINTENANCE
CITY OF MILWAUKEE
CITY OF MILWAUKEE MUNICIPAL BLDG.
841 NORTH BROADWAY RM. 821
MILWAUKEE, WI 53202
PH: (414)-286-2467

UTILITIES CONT.

2

ABBREVIATIONS

AP	ACCESS POINT/ DRIVEWAY CONNECTION
AR	ACCESS RIGHTS
AC.	ACRES
ET.AL.	AND OTHERS
℄ OR C/L	CENTERLINE
CMCP	CORRUGATED METAL CULVERT PIPE
CSM	CERTIFIED SURVEY MAP
COR.	CORNER
D	DEGREE OF CURVE
D.D.	DIRECTION DISTRIBUTION
D.H.V.	DESIGN HOUR VOLUME
DOC.	DOCUMENT
E.	EAST
EASE.	EASEMENT
EL OR ELEV	ELEVATION
E.S.A.L.	EQUIVALENT SINGLE AXLE LOAD
EXIST.	EXISTING
H.E.	HIGHWAY EASEMENT
HMA	HOT MIX ASPHALT
IP OR I.P.	IRON PIN
L	LENGTH OF CURVE
LN	LANE
LT. OR LT	LEFT
MAX.	MAXIMUM

ABBREVIATIONS CONT.

MIN.	MINIMUM
MON.	MONUMENT
MP	ROADWAY MILEAGE
N.	NORTH
P.	PAGE
PLE	PERMANENT LIMITED EASEMENT
PL	PROPERTY LINE
RCCP	REINFORCED CONCRETE CULVERT PIPE
RD.	ROAD
(100')	RECORDED AS
R	RADIUS
℞ OR R/L	REFERENCE LINE
ROR	RELEASE OF RIGHTS
REM.	REMAINING
RT OR RT.	RIGHT
R/W	RIGHT-OF-WAY
S.	SOUTH
S.E.	SUPEREVELVATION
SEC.	SECTION
SF	SQUARE FEET
STA.	STATION
T	TANGENT
TLE	TEMPORARY LIMITED EASEMENT
T. %	TRUCK (PERCENT OF)
V.	VOLUME
W.	WEST

OTHER CONTACTS

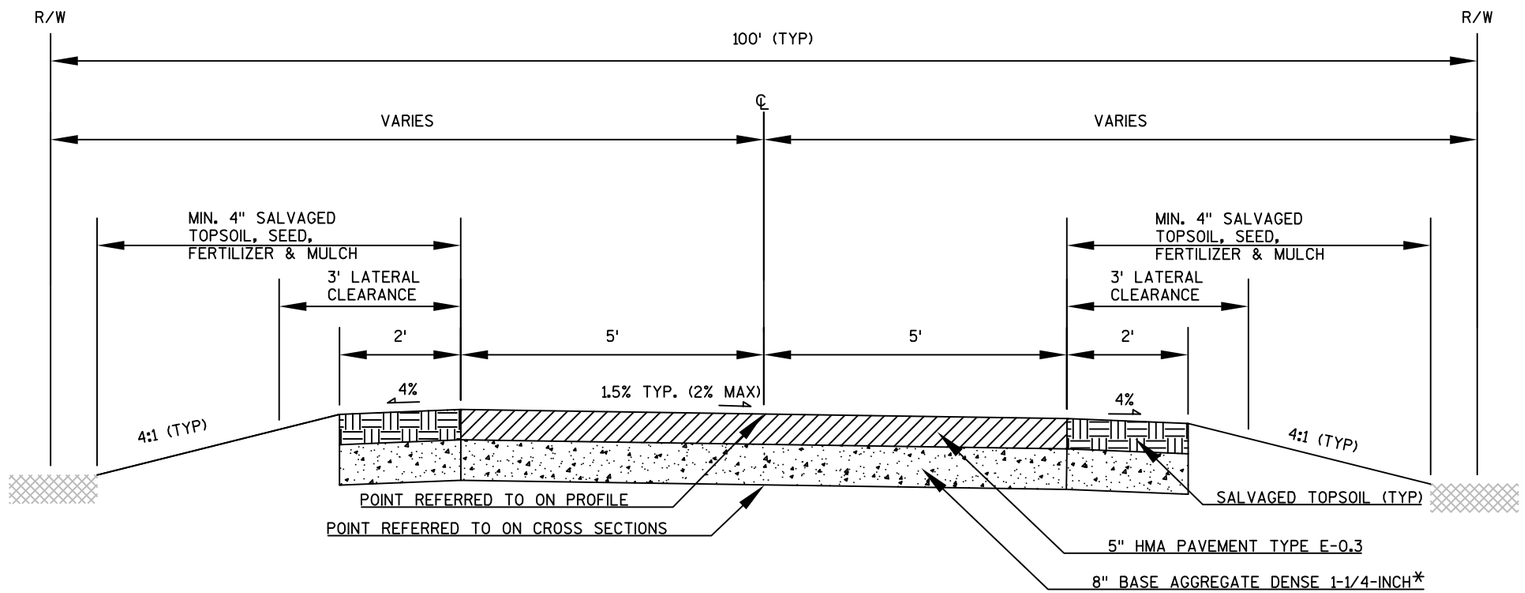
CITY OF MILWAUKEE

BENJAMIN SCHULTZ
841 N. BROADWAY
ROOM 920
MILWAUKEE, WI 53202
(414)286-3825
www.milwaukee.gov/mpw

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
(SOUTH EAST REGION)
MILWAUKEE COUNTY:
BRYAN HARTSOOK
DNR SOUTHEAST REGION
141 NW BARSTOW STREET, ROOM 180
WAUKESHA, WI 53188
PHONE: (262)212-0263
bryan.hartsook@wisconsin.gov

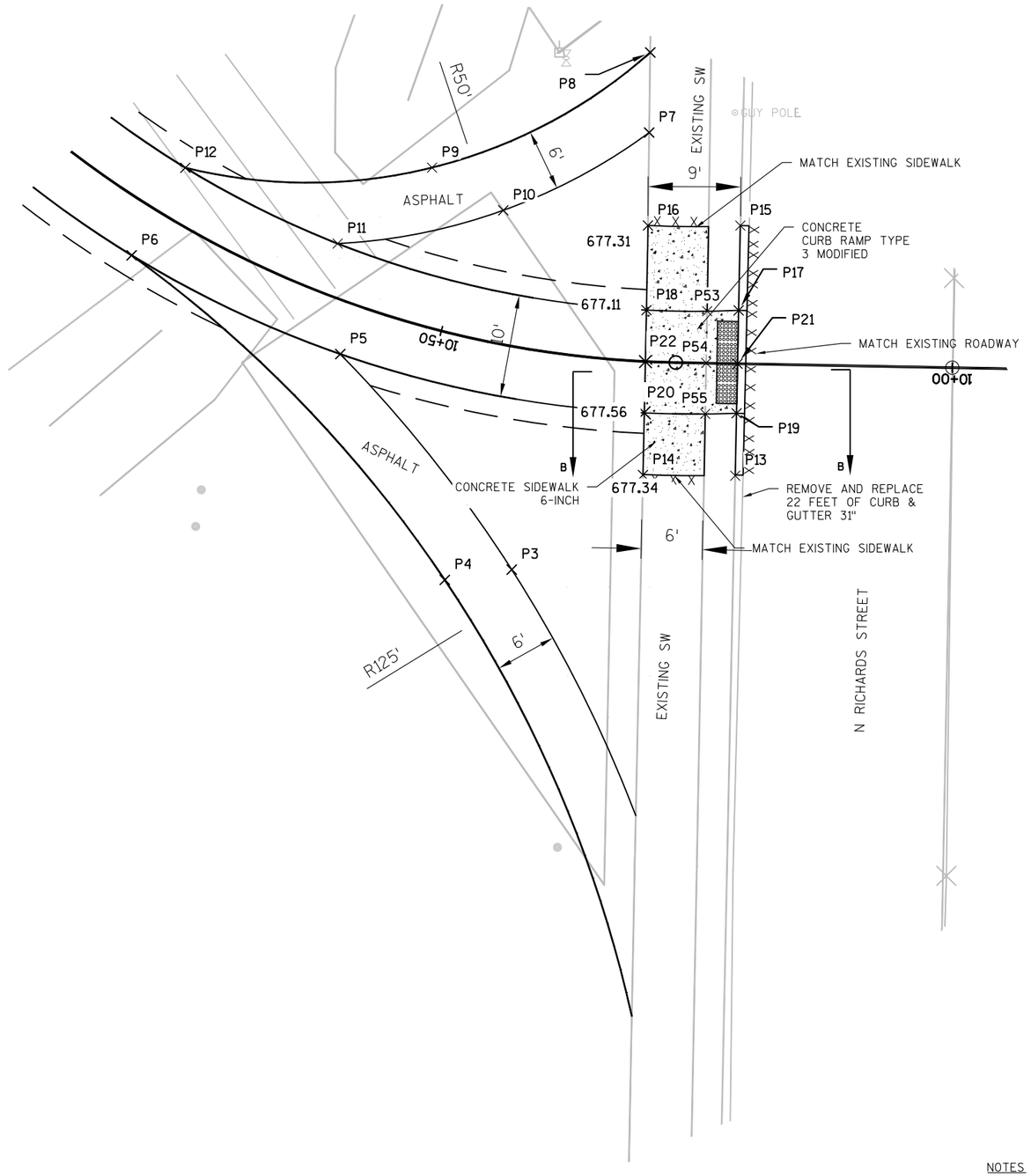
DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com



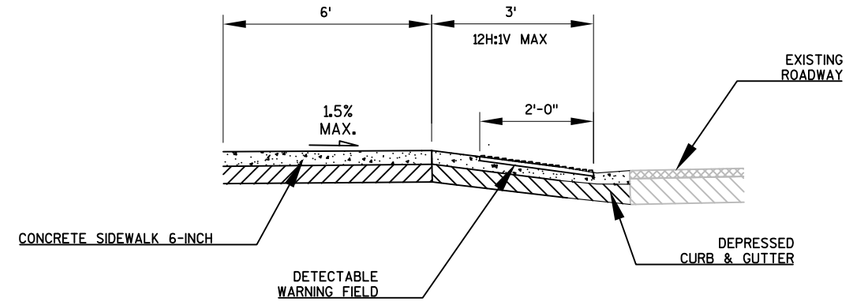
TYPICAL FINISHED SECTION
STA. 10+29.88 TO STA. 42+04.56
STA. 0+10 TO STA. 0+23 W. ABERT

NOTES:
* FROM STA 38+85 - 40+24 REDUCE BASE AGGREGATE THICKNESS TO 4-INCHES, MAINTAIN MINIMUM 10-INCHES BALLAST.

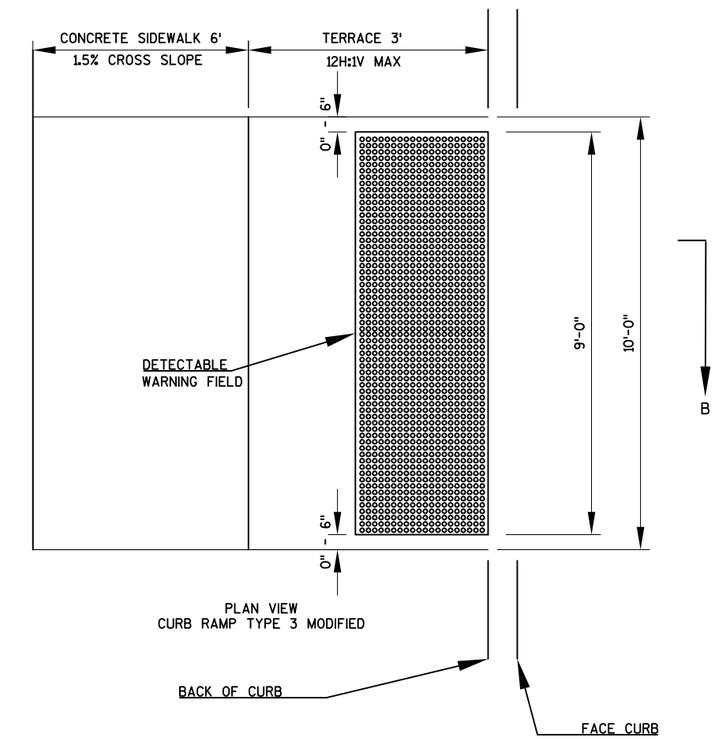
PROJECT NO: 2984-34-71	HWY: BEER LINE BICYCLE TRAIL	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET	E



N. RICHARDS STREET
CONNECTION



SECTION B-B



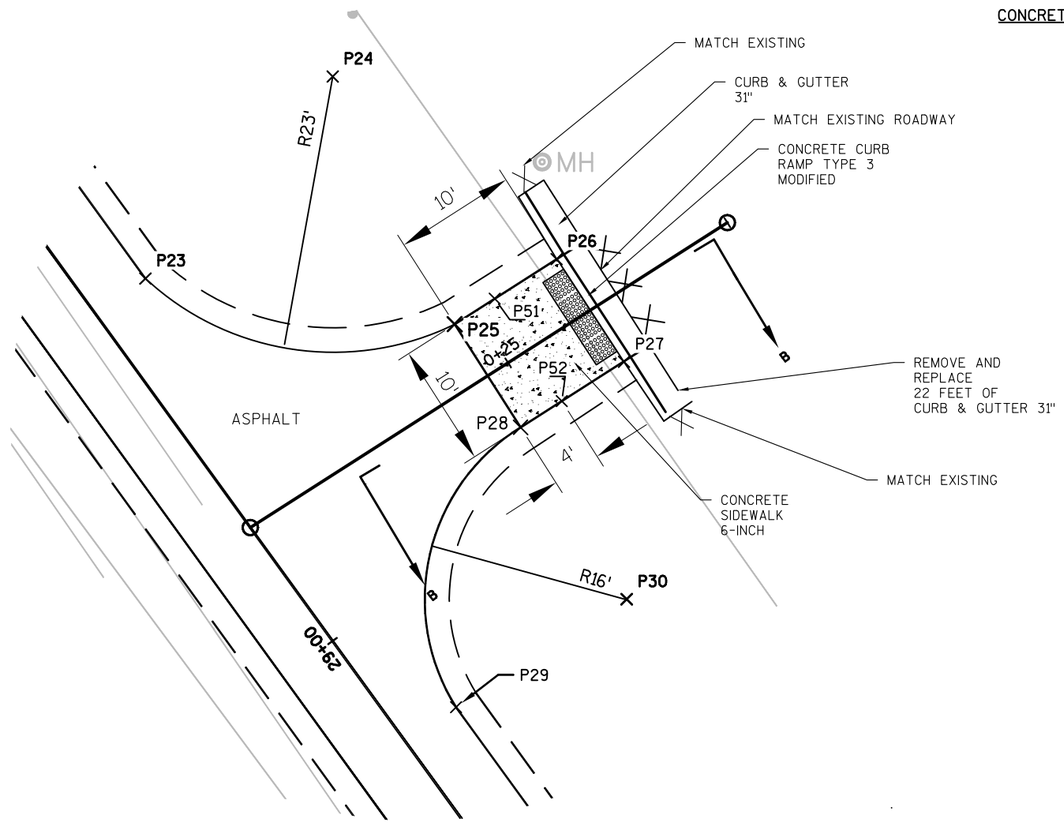
NOTES

1. SEE STANDARD DETAIL DRAWING 8D5, SHEET b, "CURB RAMPS TYPE 2 AND TYPE 3", FOR ALL OTHER PERTINENT INFORMATION.
2. REFER TO POINT LAYOUT TABLE FOR COORDINATES AND GRADES.
3. REMOVE AND REPLACE 22-FEET OF EXISTING CURB & GUTTER WITH 31-INCH CURB & GUTTER.
4. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER

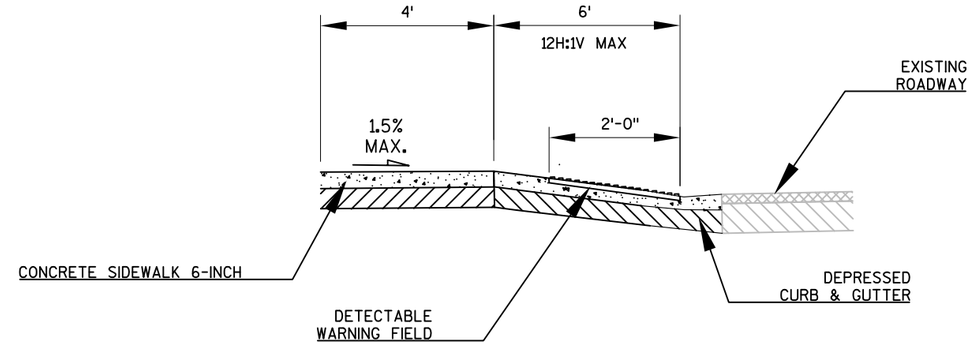
LEGEND

- CONCRETE SIDEWALK 6-INCH
- X X SAW CUT PAVEMENT
- DETECTABLE WARNING FIELD

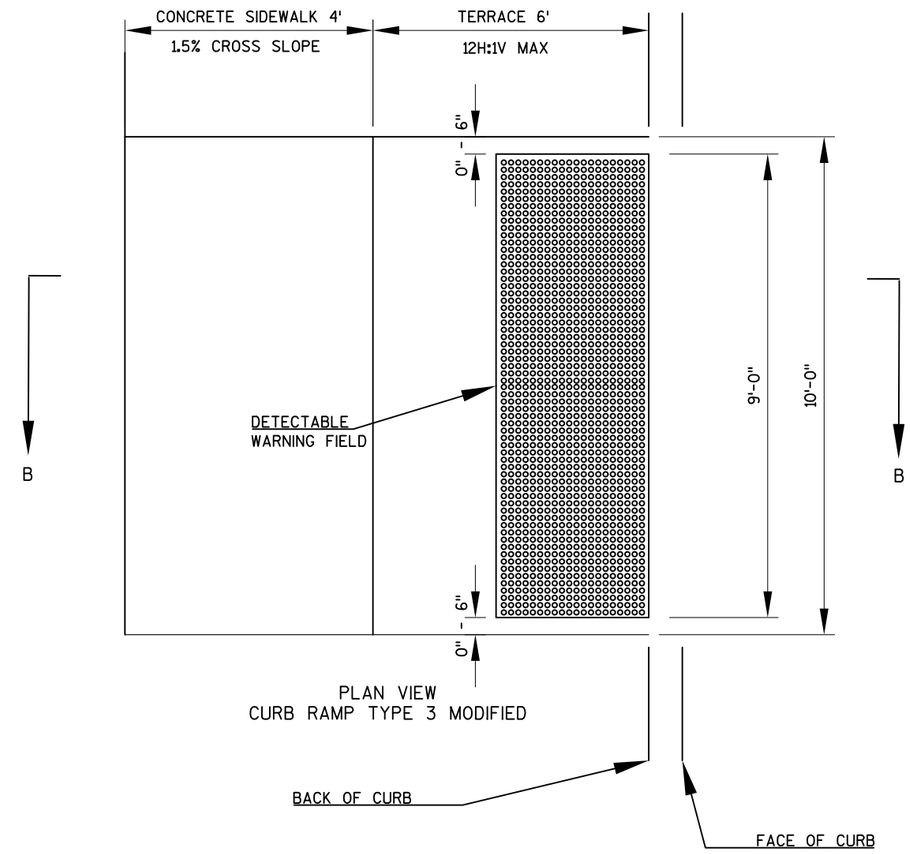
PROJECT NO: 2984-34-71	HWY: BEER LINE BICYCLE TRAIL	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET	E



ABERT PLACE CONNECTION



SECTION B-B



PLAN VIEW
CURB RAMP TYPE 3 MODIFIED

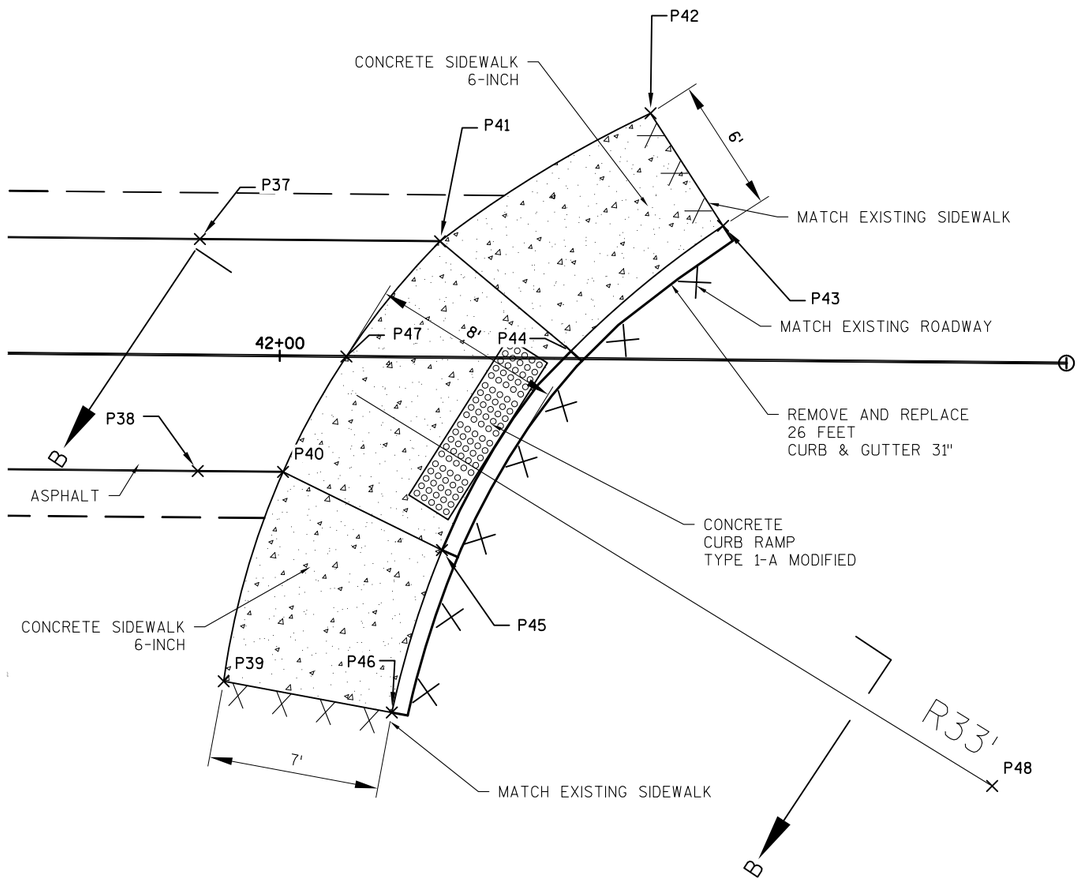
NOTES:

1. SEE STANDARD DETAIL DRAWING 8D5, SHEET B, "CURB RAMPS TYPES 2 AND TYPE 3", FOR ALL OTHER PERTINENT INFORMATION.
2. REFER TO POINT LAYOUT TABLE FOR COORDINATES AND GRADES.
3. REMOVE AND REPLACE 6-FEET OF EXISTING CURB & GUTTER WITH 31-INCH CURB & GUTTER.

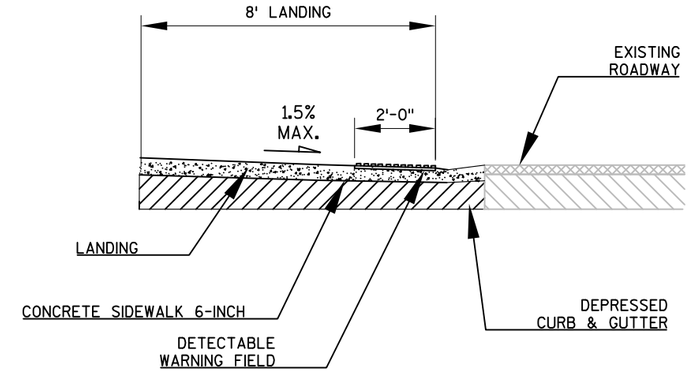
LEGEND

- CONCRETE SIDEWALK 6-INCH
- X X SAW CUT PAVEMENT
- DETECTABLE WARNING FIELD

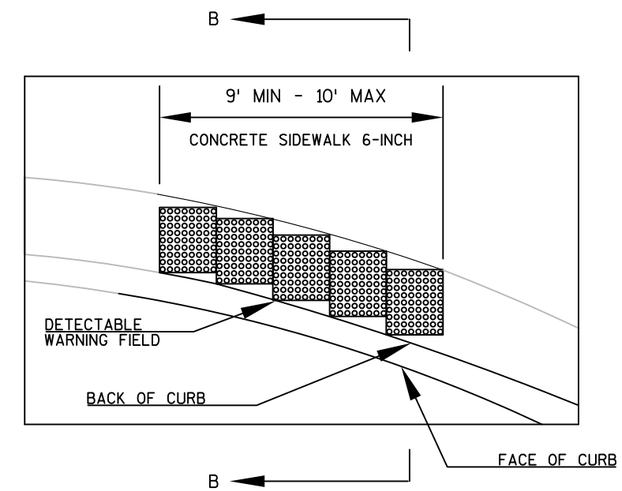
PROJECT NO: 2984-34-71	HWY: BEER LINE BICYCLE TRAIL	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET	E



FRONTAGE ROAD
CONNECTION



SECTION B-B



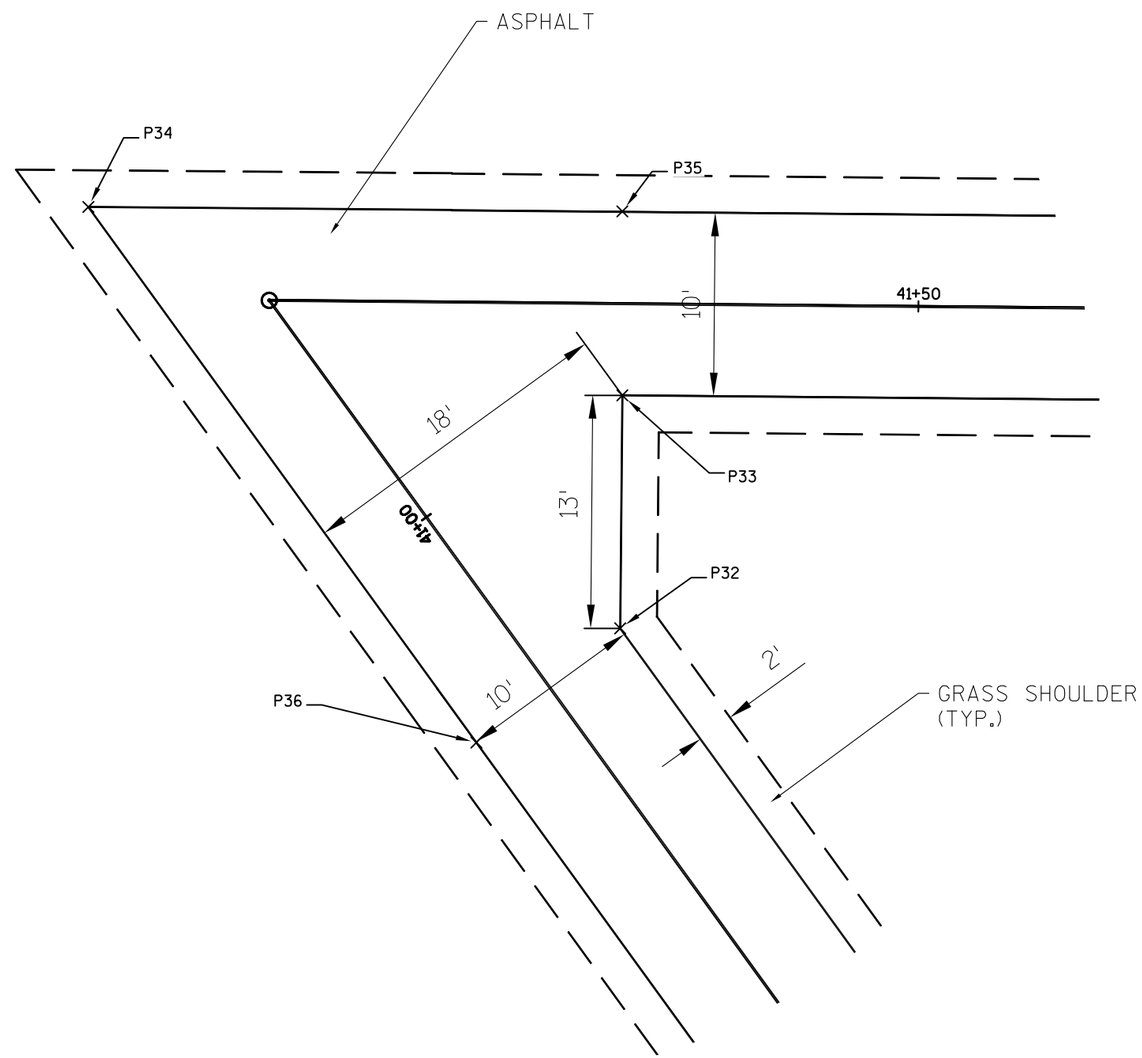
PLAN VIEW
CURB RAMP TYPE 1-A MODIFIED

NOTES:

1. SEE STANDARD DETAIL DRAWING 8D5, SHEET A, "CURB RAMPS TYPE 1 AND TYPE 1A", FOR ALL OTHER PERTINENT INFORMATION.
2. REFER TO POINT LAYOUT TABLE FOR COORDINATES AND GRADES.
3. REMOVE AND REPLACE 26-FEET OF EXISTING CURB & GUTTER WITH 31-INCH CURB & GUTTER.
4. CONTRACTOR IS NOT TO INSTALL PEDESTRIAN CURB AS PER STANDARD DETAIL DRAWING.

LEGEND

- CONCRETE SIDEWALK 6-INCH
- X X SAW CUT PAVEMENT
- DETECTABLE WARNING FIELD



NOTES:
1. REFER TO POINT LAYOUT TABLE FOR COORDINATES AND GRADES

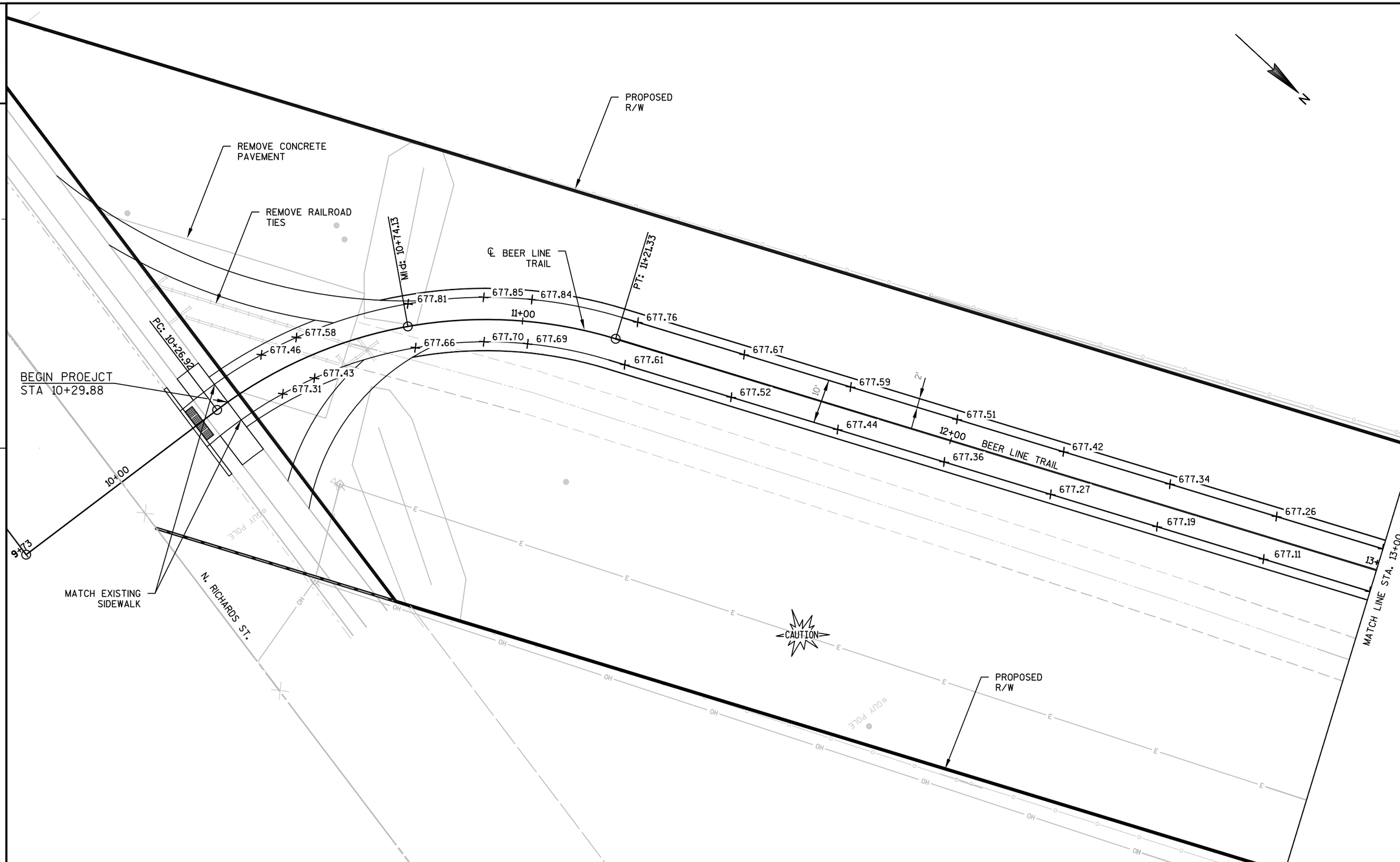
EXTENDED
PAVEMENT DETAIL

PROJECT NO: 2984-34-71	HWY: BEER LINE BICYCLE TRAIL	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET	E

2

POINTS LAYOUT TABLE

POINT NO.	BEER LINE TRAIL STATION	BEER LINE TRAIL OFFSET	ABERT PLACE STATION	ABERT PLACE OFFSET	EASTING	NORTHING	ELEVATION	REMARKS
P1	10+28.81	63.70' LT	-	-	606493.07'	315610.01'	678.00	BEGIN CURVE
P2	10+29.05	44.20' LT	-	-	606493.45'	315629.51'	678.18	BEGIN CURVE
P3	10+38.12	23.92' LT	-	-	606481.38'	315653.45'	677.91	-
P4	10+44.89	23.57' LT	-	-	606474.87'	315652.45'	677.73	-
P5	10+58.56	5.00' LT	-	-	606464.69'	315674.43'	677.63	END CURVE
P6	10+80.00	5.00' LT	-	-	606444.39'	315684.05'	677.81	END CURVE
P7	10+30.79	22.28' RT	-	-	606494.76'	315696.00'	677.14	BEGIN CURVE
P8	10+31.29	30.07' RT	-	-	606494.86'	315703.79'	677.03	BEGIN CURVE
P9	10+55.66	15.05' RT	-	-	606473.62'	315692.59'	677.18	-
P10	10+48.45	11.82' RT	-	-	606480.39'	315688.37'	677.26	-
P11	10+62.54	5.00' RT	-	-	606464.43'	315685.19'	677.56	END CURVE
P12	10+80.00	5.00' RT	-	-	606449.61'	315692.58'	677.68	END CURVE
P13	10+20.93	10.84' LT	-	-	606503.14'	315662.66'	677.48	MATCH EXISTING
P14	10+29.62	11.00' LT	-	-	606494.16'	315662.71'	677.34	MATCH EXISTING
P15	10+20.88	11.21' RT	-	-	606503.60'	315684.70'	676.85	MATCH EXISTING
P16	10+30.23	11.00' RT	-	-	606494.64'	315686.96'	677.31	MATCH EXISTING
P17	10+20.90	5.19' RT	-	-	606503.47'	315678.69'	676.82	END CURB RAMP, MATCH EXISTING
P18	10+30.03	5.00' RT	-	-	606494.50'	315678.71'	677.11	BEGIN CURB RAMP
P19	10+20.92	4.83' LT	-	-	606503.26'	315668.67'	677.27	END CURB RAMP, MATCH EXISTING
P20	10+29.75	5.00' LT	-	-	606494.29'	315668.71'	677.56	BEGIN CURB RAMP
P21	10+20.91	0.00'	-	-	606503.36'	315673.50'	677.06	END CURB RAMP, MATCH EXISTING
P22	10+29.86	0.00'	-	-	606494.39'	315673.69'	677.35	BEGIN CURB RAMP
P23	29+32.95	5' RT	-	-	605423.42'	317222.74'	674.83	BEGIN RADIUS
P24	29+37.34	27.15' RT	-	-	605438.77'	317239.29'	-	CENTER OF CURB RADIUS
P25	-	-	0+23.02	5' LT	605448.68'	317219.00'	673.64	END RADIUS, START CURB RAMP
P26	-	-	0+32.90	5' RT	605457.01'	317224.33'	673.08	END CURB RAMP, MATCH EXISTING
P27	-	-	0+33.02	5' RT	605462.52'	317215.94'	672.97	END CURB RAMP, MATCH EXISTING
P28	-	-	0+23.02	5' RT	605454.07'	317210.57'	673.53	END RADIUS, START CURB RAMP
P29	28+89.70	5' RT	-	-	605448.79'	317187.72'	674.97	BEGIN RADIUS
P30	28+88.66	21.46' RT	-	-	605462.73'	317196.54'	-	CENTER RADIUS
P32	40+88.89	5.00' RT	-	-	604750.24'	318151.68'	673.98	EDGE OF ASPHALT
P33	41+33.90	5.00' RT	-	-	604750.36'	318164.39'	673.80	EDGE OF ASPHALT
P34	-	-	-	-	604721.24'	318174.66'	674.14	EDGE OF ASPHALT
P35	41+33.84	5.00' LT	-	-	604750.36'	318174.42'	673.95	EDGE OF ASPHALT
P36	40+88.45	5.00' LT	-	-	604742.40'	318145.46'	674.13	EDGE OF ASPHALT
P37	41+96.51	5' LT	-	-	604813.05'	318173.80'	673.65	-
P38	41+96.51	5' RT	-	-	604812.96'	318163.80'	673.54	-
P39	41+97.71	14.05' RT	-	-	604814.08'	318154.75'	673.75	BEGIN CURB RAMP
P40	42+00.19	5 RT	-	-	604816.631'	318163.77'	673.65	BEGIN CURB RAMP
P41	42+06.86	5 LT	-	-	604823.40'	318173.71'	673.59	BEGIN CURB RAMP
P42	42+15.88	10.6' LT	-	-	604832.48'	318179.22'	673.68	BEGIN CURB RAMP
P43	42+19.05	5.78' LT	-	-	604835.60'	318174.37'	673.81	END CURB RAMP, MATCH EXISTING
P44	42+13.02	0.1' LT	-	-	604829.05'	318168.98'	673.48	END CURB RAMP, MATCH EXISTING
P45	42+07.75	8.6' RT	-	-	604824.49'	318160.40'	673.54	END CURB RAMP, MATCH EXISTING
P46	42+04.97	15.3' RT	-	-	604821.32'	318153.40'	673.53	END CURB RAMP, MATCH EXISTING
P47	42+04.56	0.47' RT	-	-	604821.05'	318168.26'	673.68	BEGIN CURB RAMP
P48	42+30.88	18.25' RT	-	-	604847.20'	318150.23'	-	CENTER OF RADIUS
P49	-	-	-	-	-	-	-	-
P50	-	-	-	-	-	-	-	-
P51	-	-	0+28.90	5' LT	605451.96'	317221.09'	673.58	BEGIN LANDING
P52	-	-	0+29.01	5' RT	605457.44'	317212.73'	673.47	BEGIN LANDING
P53	10+23.96	5' RT			606500.40'	315678.61'	677.02	BEGIN LANDING
P54	10+23.96	0'			606500.31'	315673.57'	677.26	BEGIN LANDING
P55	10+23.96	5' LT			606500.22'	315668.61'	677.47	BEGIN LANDING



PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PAVEMENT GRADES	SHEET	E

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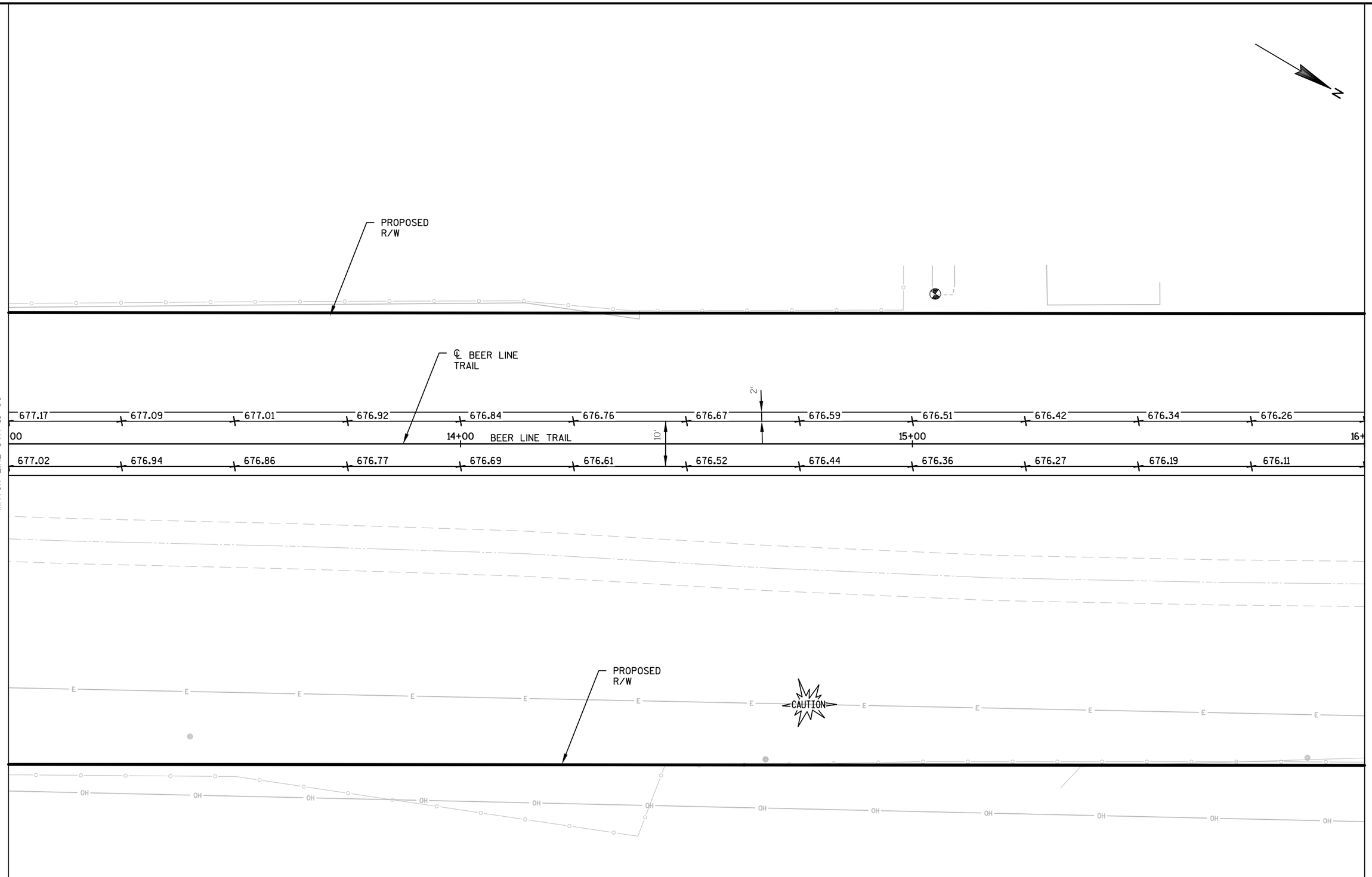
PATH CENTERLINE - 4 - 02121
PLOT DATE : 9/5/2014 11:36 AM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1:20_XREF

2



PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PAVEMENT GRADES	SHEET	E

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PATH CENTERLINE - 4 - 02122
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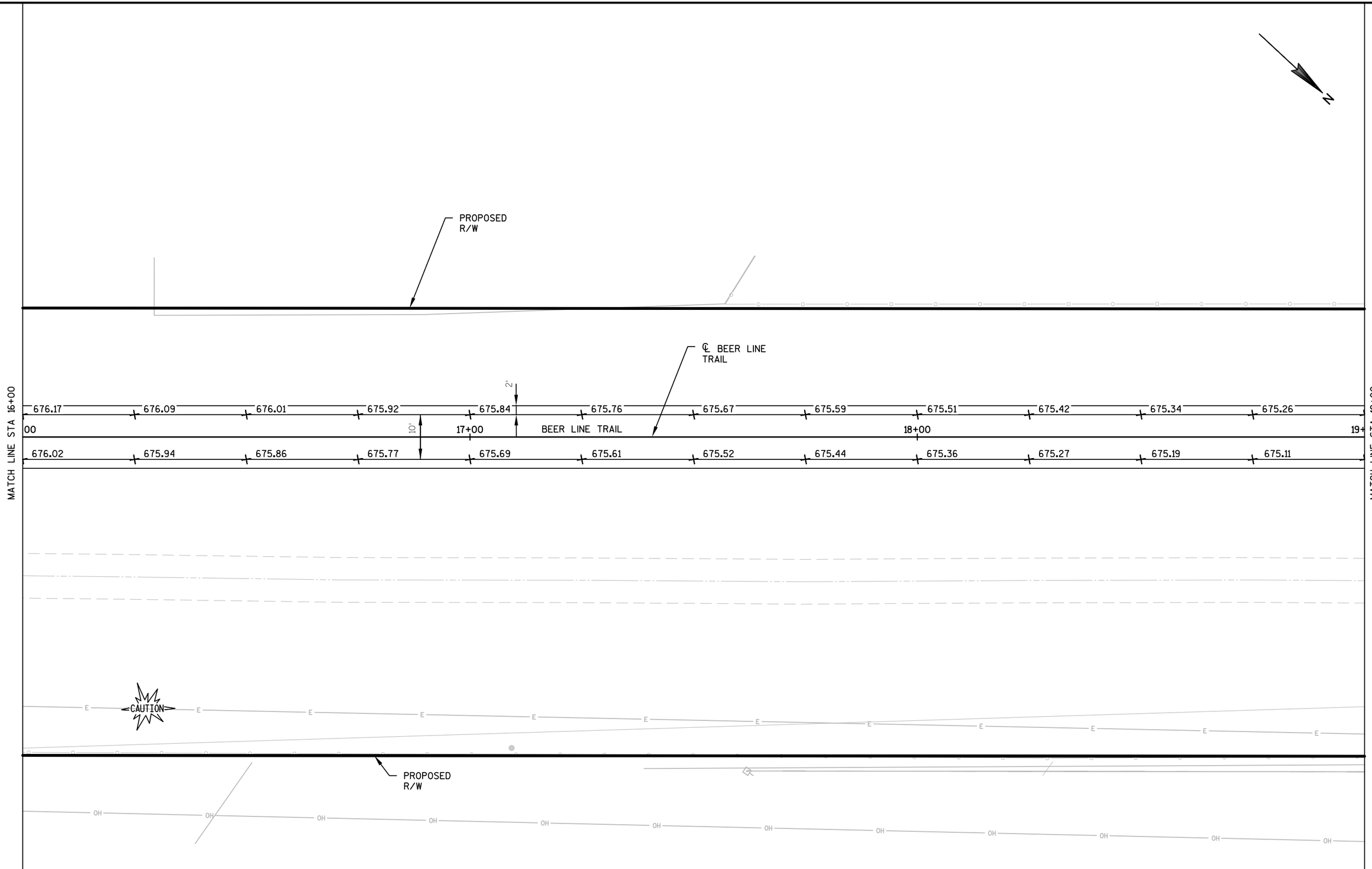

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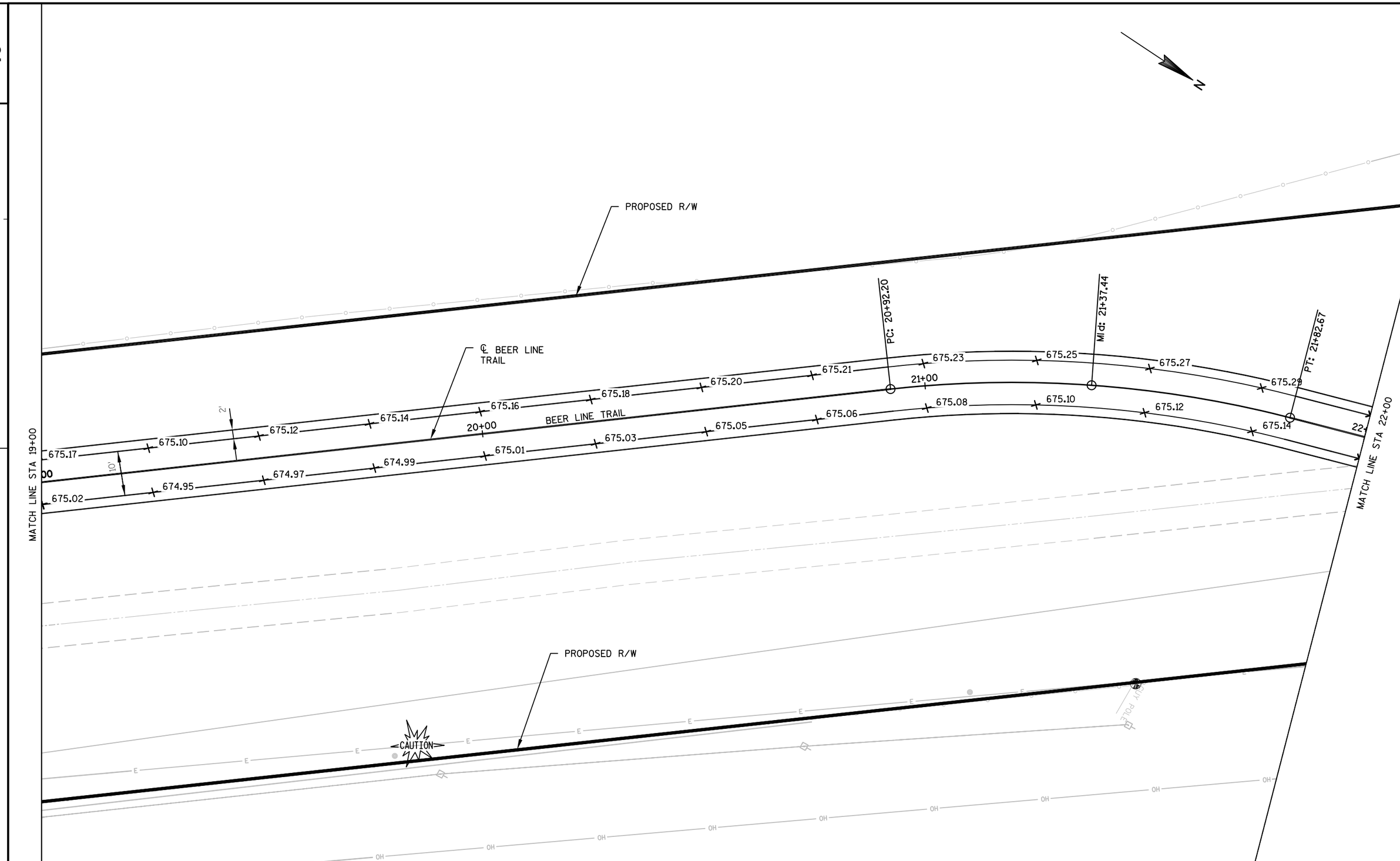
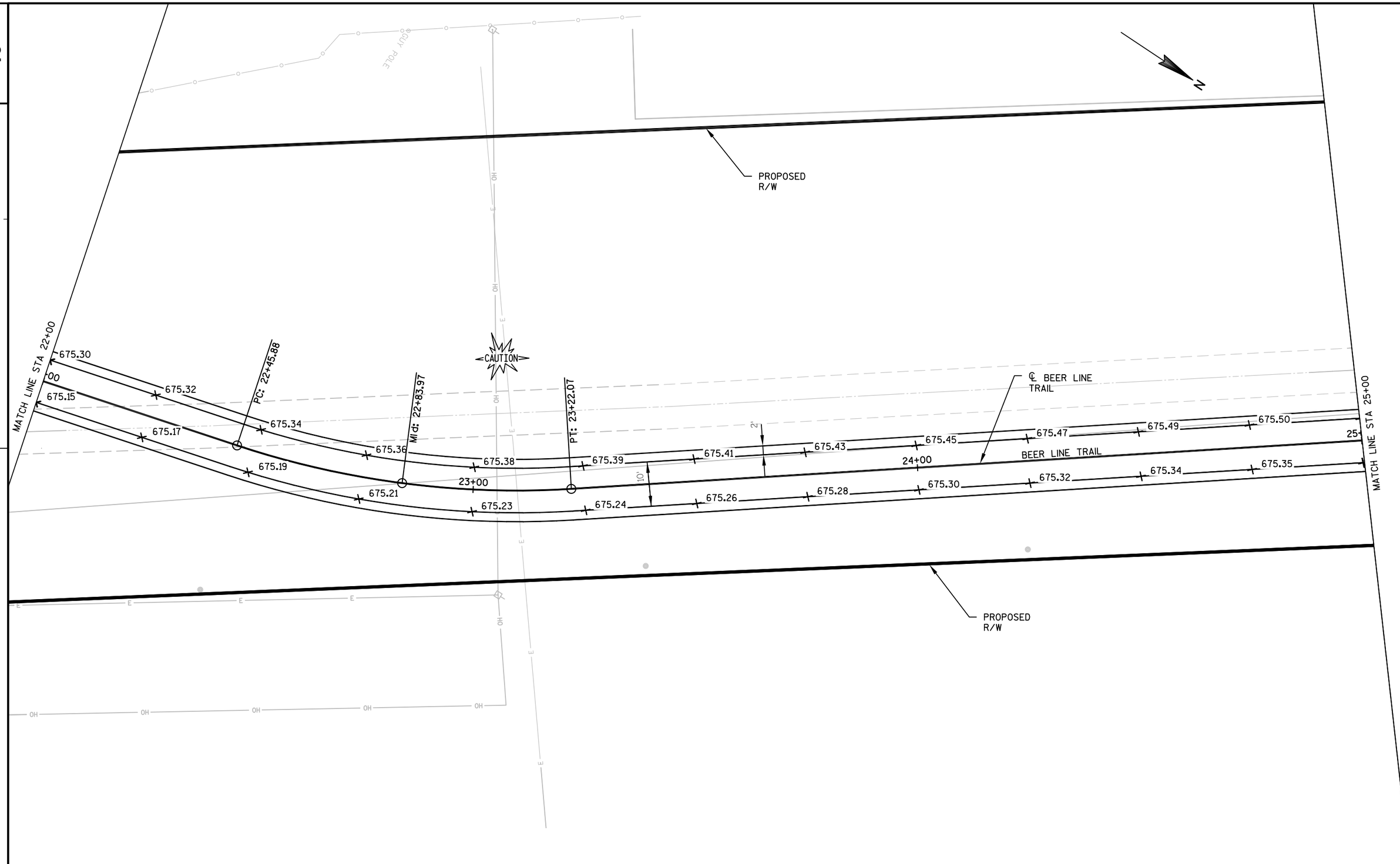
PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PAVEMENT GRADES	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090201_XS.DWG
PATH CENTERLINE - 4 - 02123
PLOT DATE : 9/5/2014 11:37 AM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1:20_XREF



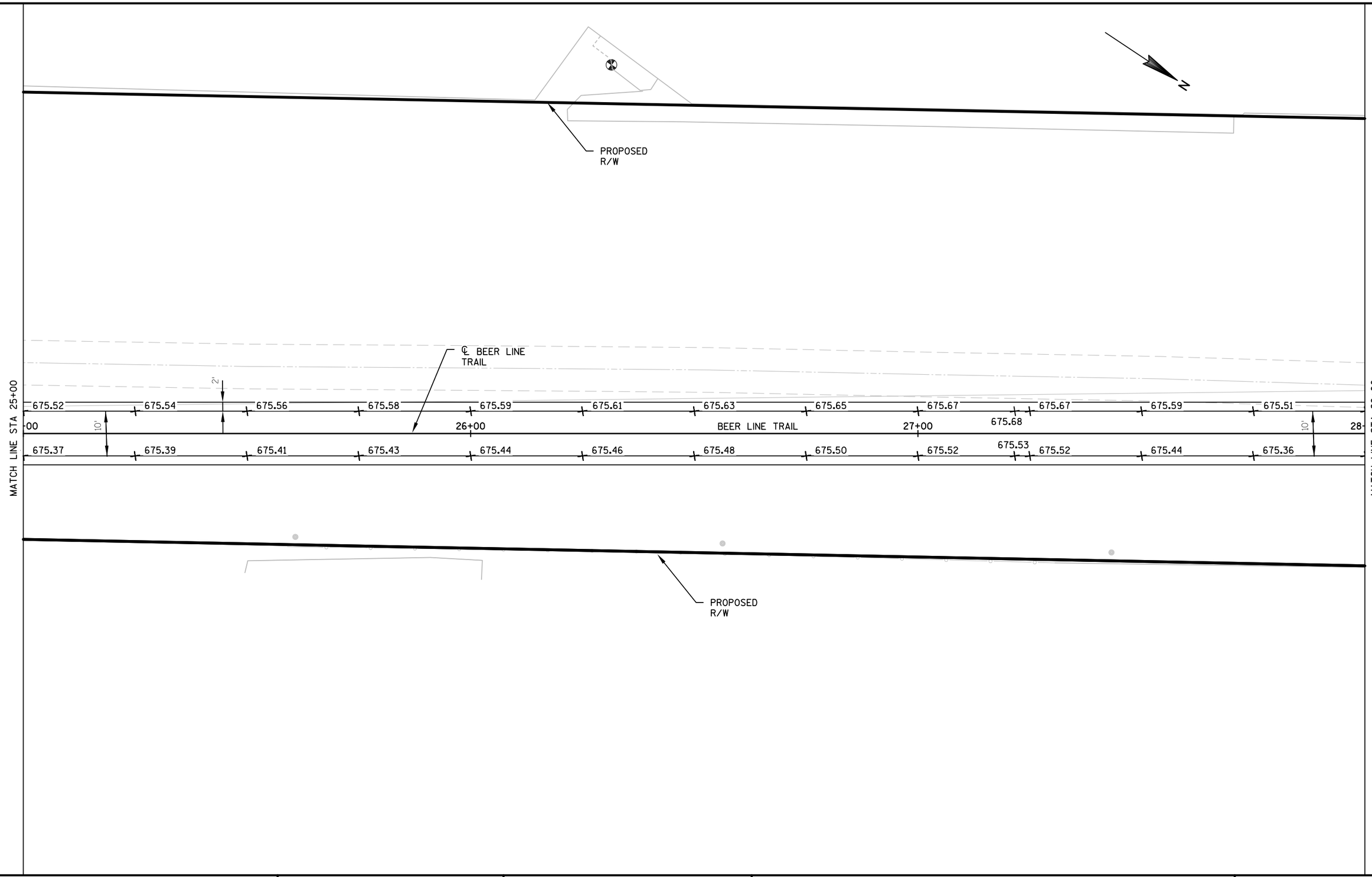
PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PAVEMENT GRADES	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090201_XS.DWG
PATH CENTERLINE - 4 - 02124
PLOT DATE : 9/5/2014 11:37 AM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PAVEMENT GRADES	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090201_XS.DWG
PATH CENTERLINE - 4 - 02125
PLOT DATE : 9/5/2014 11:38 AM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1:20_XREF



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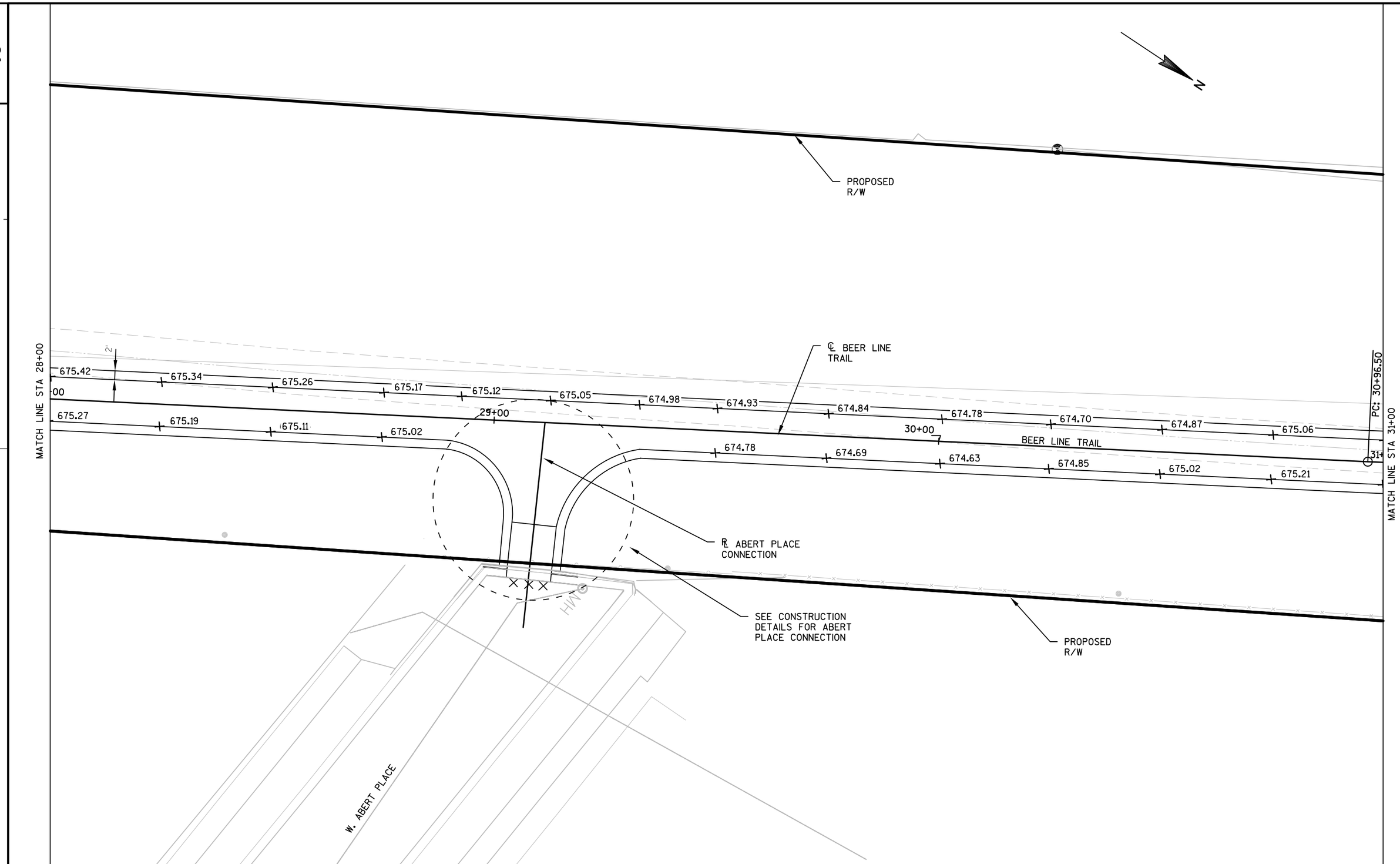
PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PAVEMENT GRADES	SHEET	E



PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PAVEMENT GRADES	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090201_XS.DWG
PATH CENTERLINE - 4 - 02127
PLOT DATE : 9/5/2014 11:38 AM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1:20_XREF

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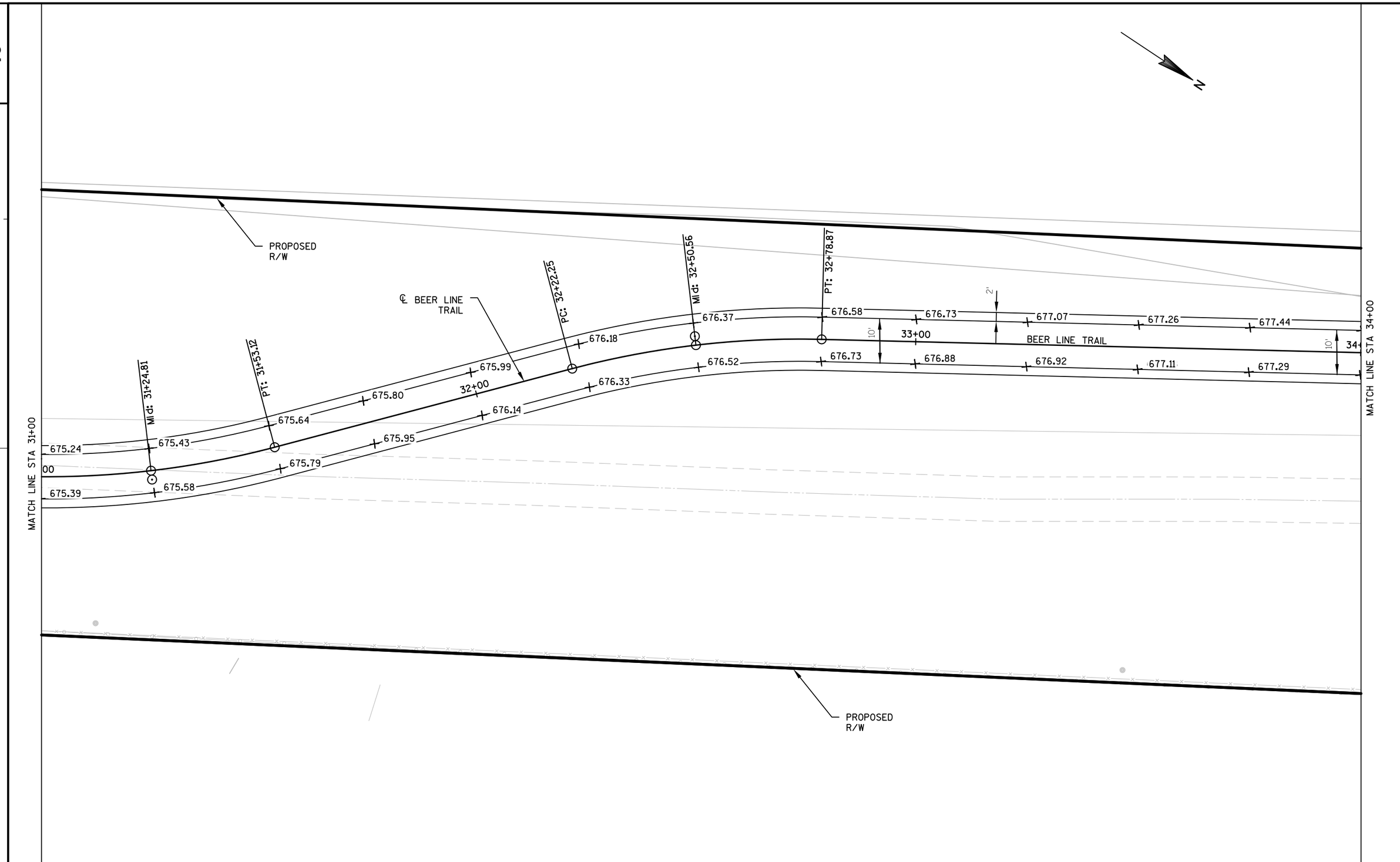

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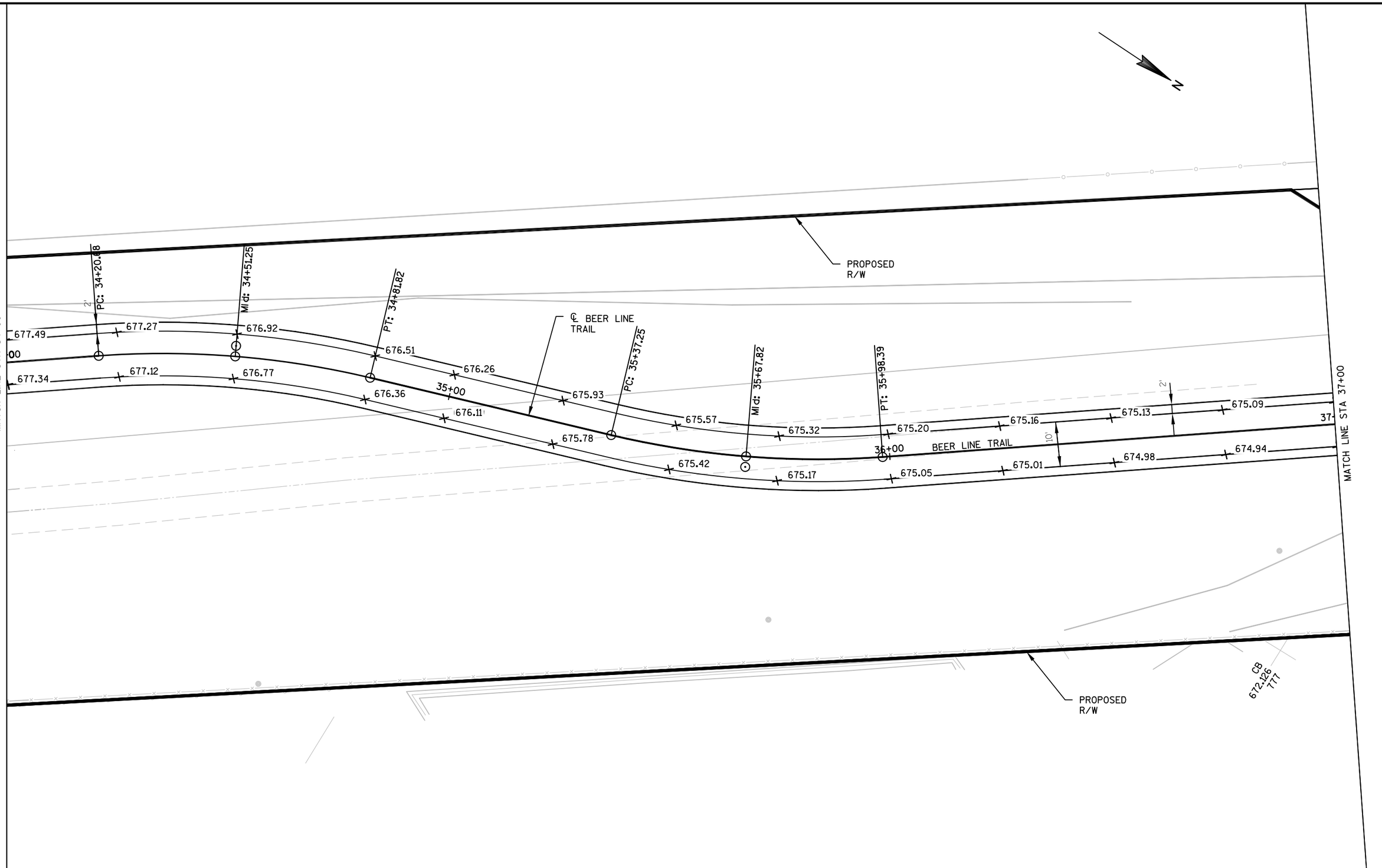
PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PAVEMENT GRADES	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090201_XS.DWG
PATH CENTERLINE - 4 - 02128
PLOT DATE : 9/5/2014 11:38 AM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PAVEMENT GRADES	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090201_XS.DWG
PATH CENTERLINE - 4 - 02129
PLOT DATE : 9/5/2014 11:38 AM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1:20_XREF

2

MATCH LINE STA 37+00

675.05 675.01 674.97 674.94 674.90 674.86 674.82 674.79 674.71 674.63 674.55 674.48

674.90 674.86 674.82 674.79 674.75 674.71 674.67 674.64 674.56 674.48 674.40 674.33

10'

MATCH LINE STA 40+00

STA 38+75 20' RT

CAPITOL DRIVE

PROPOSED R/W

CONNECT NEW FENCE TO EXISTING CHAIN LINK FENCE, OVERLAP 2' MIN.

MATCH LINE STA 40+00

2'

674.40 674.32 674.25 674.17

674.25 674.17 674.10 674.02

673.72

673.87

673.60

673.75

END PROEJCT
STA 42+04.56

SEE CONSTRUCTION DETAILS FOR CONNECTION TO FRONTAGE ROAD

N

2

PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PAVEMENT GRADES	SHEET	E

2

PROPOSED R/W

20' MIN.

11+00

12+00

13+00

14+00

15+00

10+00

9+73

SLOPE INTERCEPTS

MATCH LINE STA 16+00

PROPOSED R/W

N

2

PROPOSED R/W

MATCH LINE STA 16+00

16+00

17+00

18+00

19+00

20+00

21+00

SLOPE INTERCEPTS

MATCH LINE STA 22+00

PROPOSED R/W

LEGEND

SILT FENCE

SLOPE INTERCEPT

SURFACE WATER FLOW

TRACKING PAD

PROJECT NO:2984-34-71	HWY:BEERLINE BICYCLE TRAIL	COUNTY:MILWAUKEE	EROSION CONTROL	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\022001_EC.DWG PLOT DATE : 9/9/2014 6:22 PM PLOT BY : AJAY SINGH PLOT NAME : PLOT SCALE : 1" = 40'_XREF

2

PROPOSED R/W

MATCH LINE STA 22+00

22+00

23+00

24+00

25+00

26+00

27+00

SLOPE INTERCEPTS

MATCH LINE STA 28+00

PROPOSED R/W

PROPOSED R/W

MATCH LINE STA 28+00

28+00

29+00

30+00

31+00

32+00

33+00

SLOPE INTERCEPTS

MATCH LINE STA 34+00

PROPOSED R/W

LEGEND

SILT FENCE

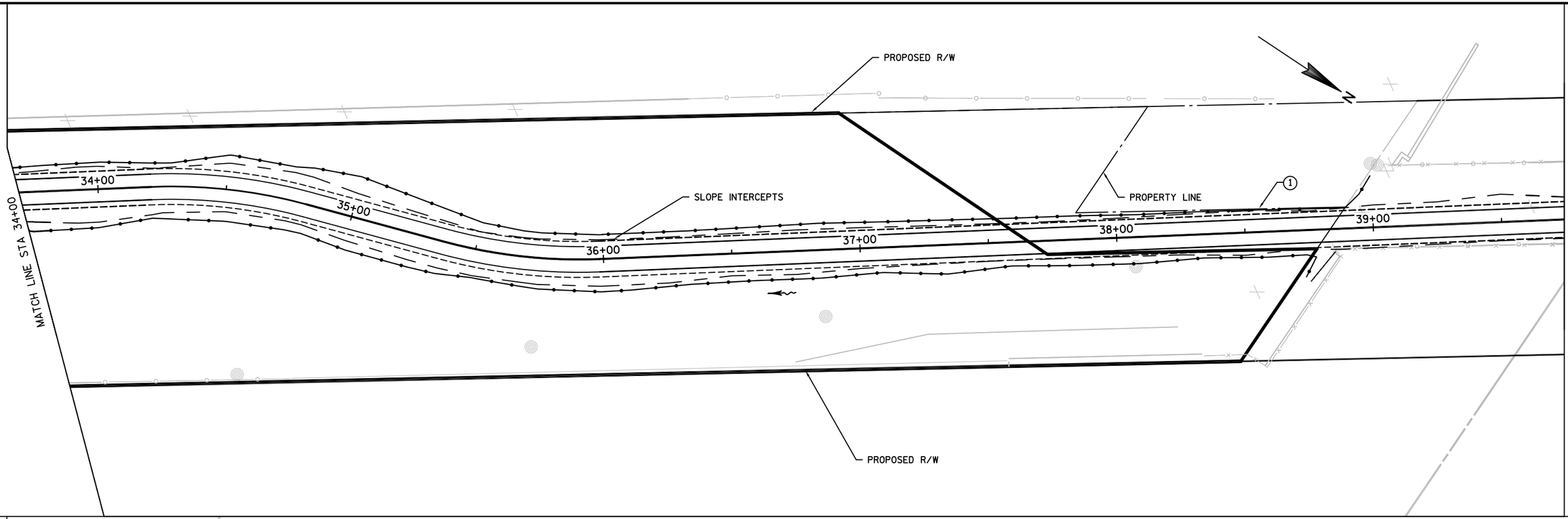
SLOPE INTERCEPT

SURFACE WATER FLOW

2

PROJECT NO:2984-34-71	HWY:BEERLINE BICYCLE TRAIL	COUNTY:MILWAUKEE	EROSION CONTROL	SHEET	E

2



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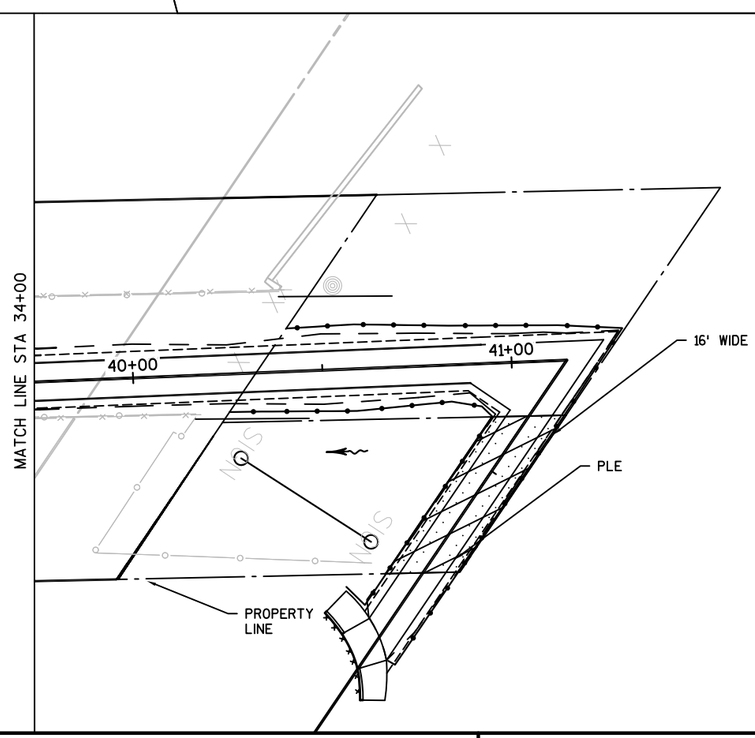


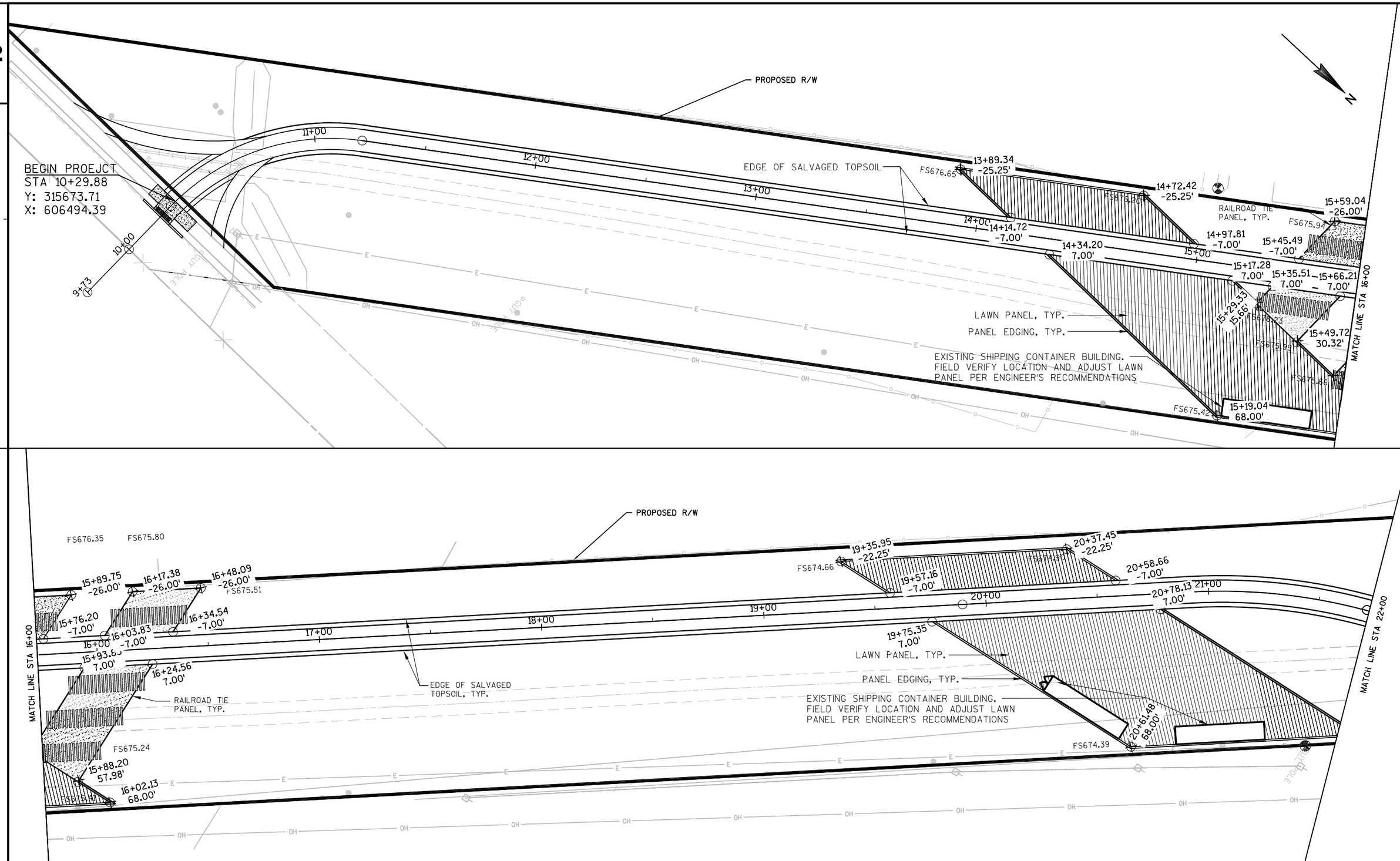
NOTES:

1. CONTRACTOR TO WORK WITHIN RIGHT-OF-WAY.

LEGEND

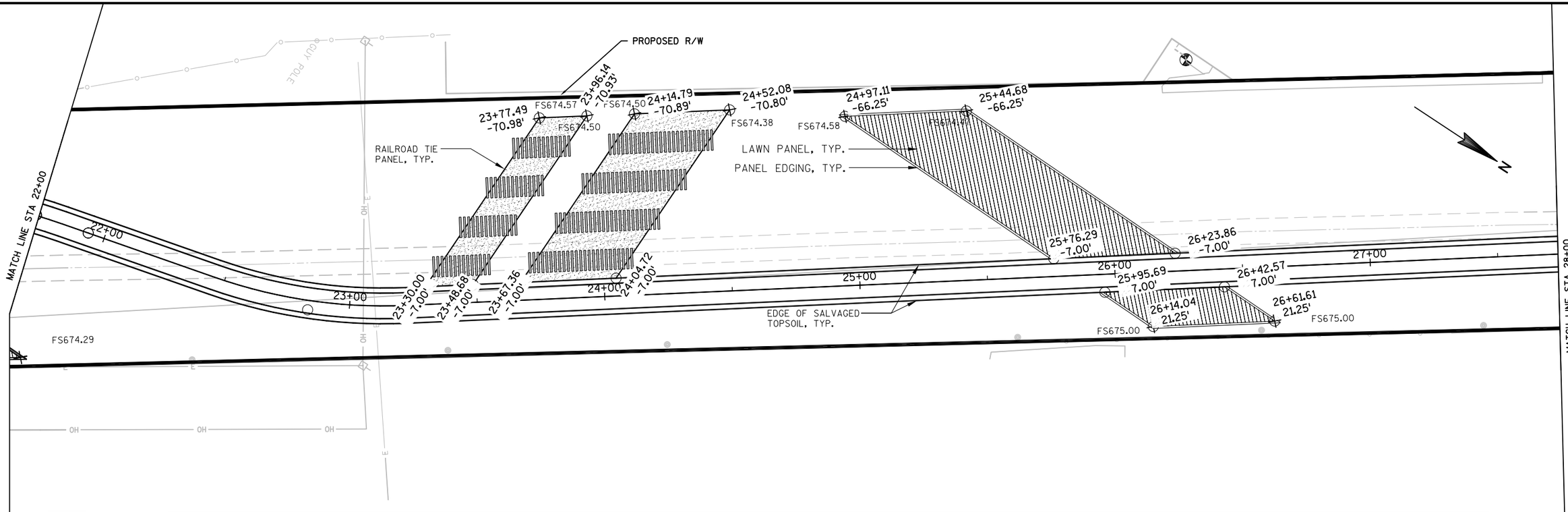
- SILT FENCE
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PROJECT NO:2984-34-71	HWY:BEERLINE BICYCLE TRAIL	COUNTY:MILWAUKEE	EROSION CONTROL	SHEET	E



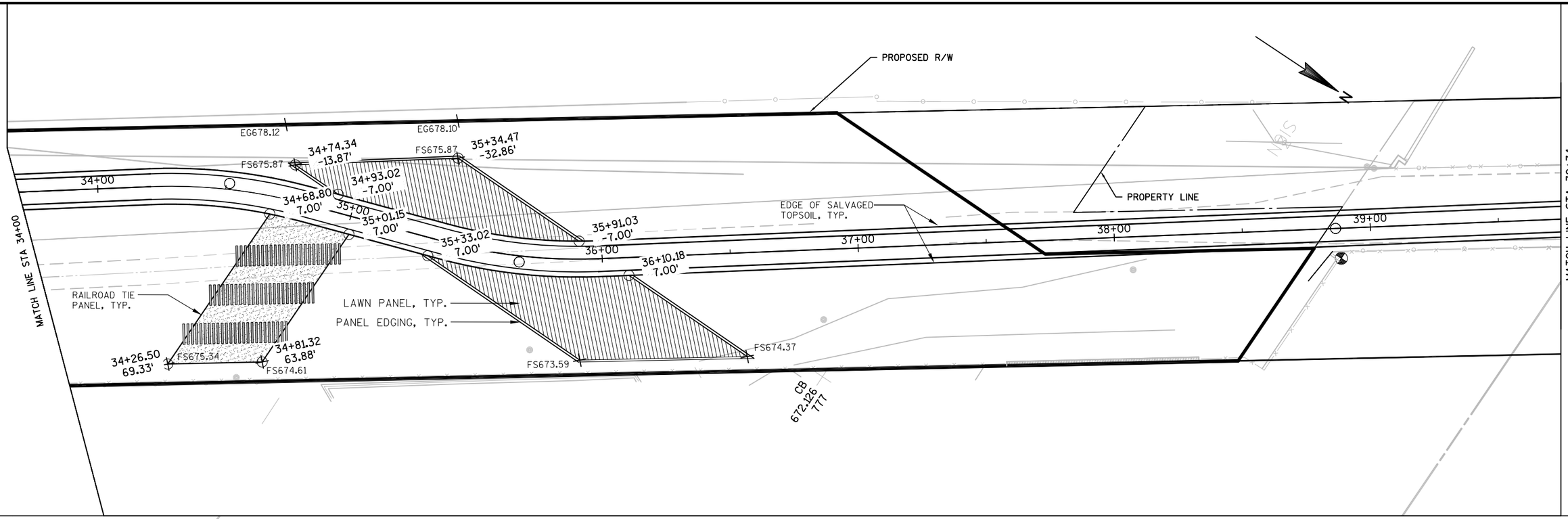
PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	LANDSCAPE PLAN	SHEET	E

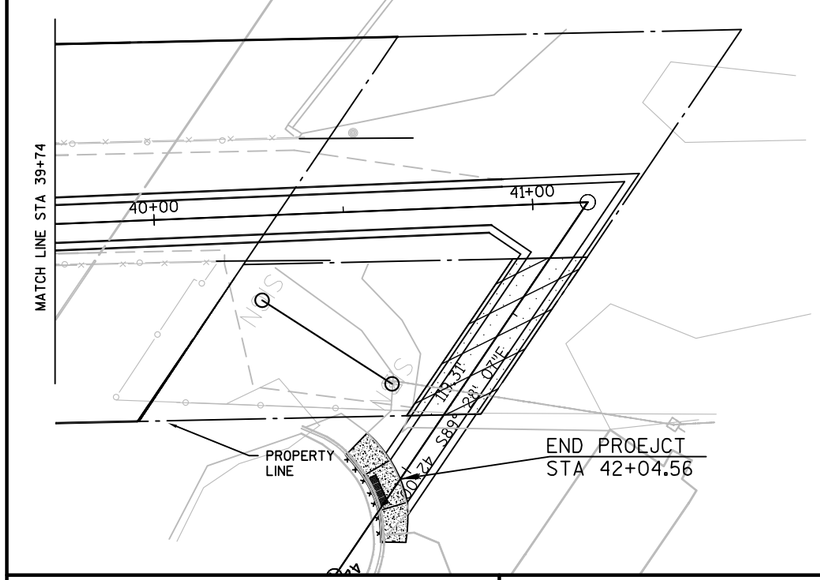
FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\023101_PL.DWG PLOT DATE : 9/25/2014 10:34 AM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1" = 40'_XREF



PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	LANDSCAPE PLAN	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\023101_PL.DWG PLOT DATE : 9/25/2014 10:36 AM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : ********

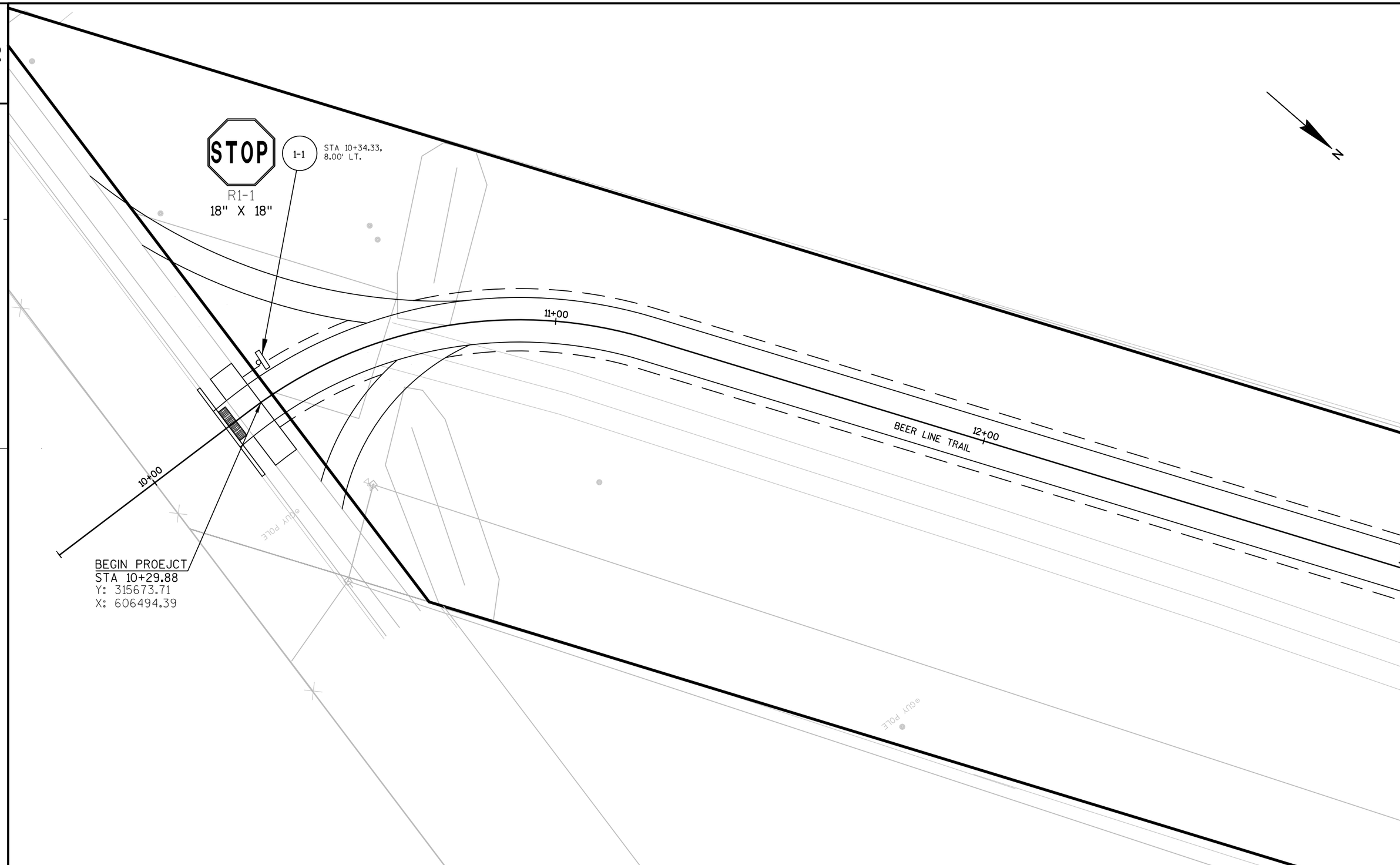




NOTES:

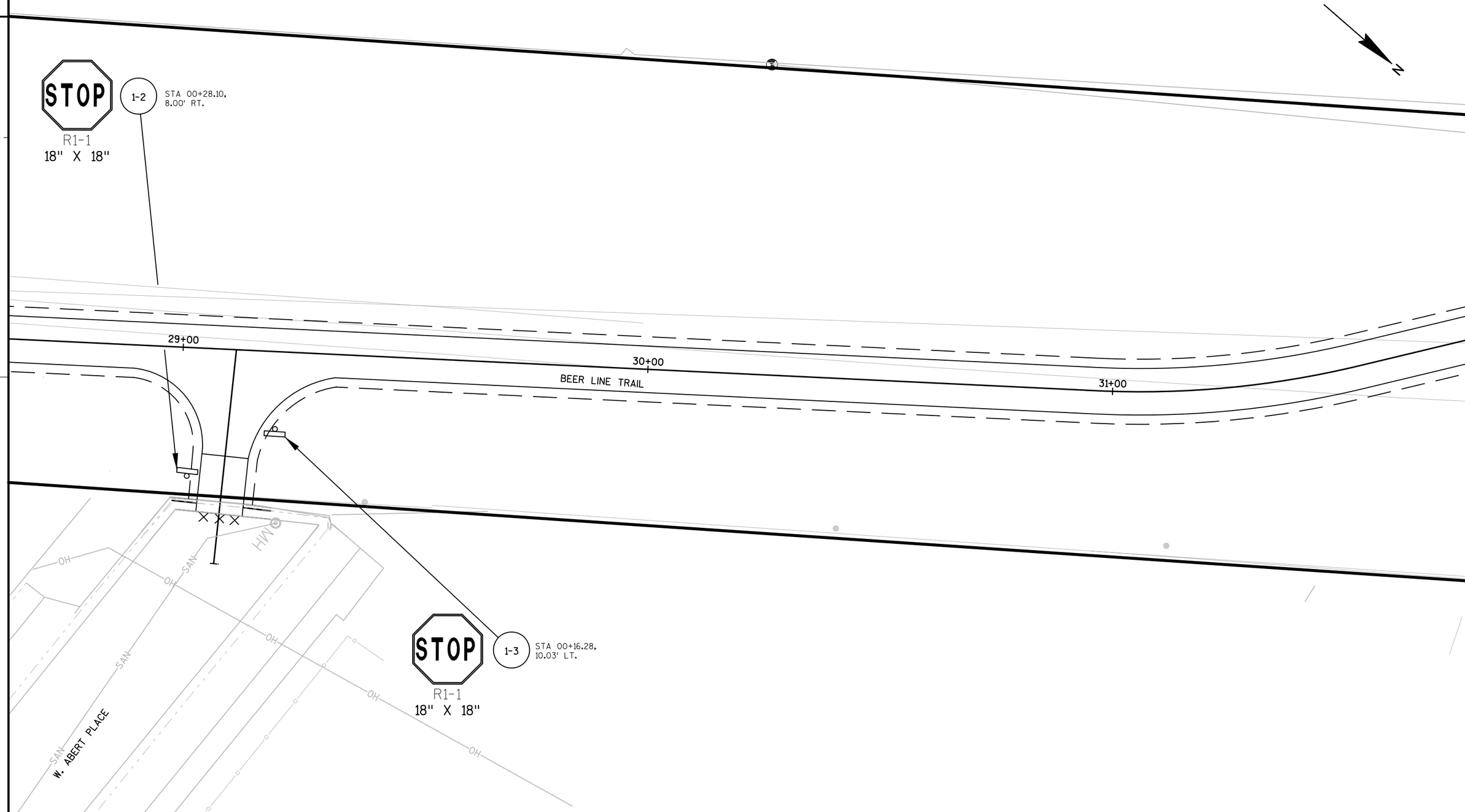
1. CONTRACTOR TO WORK WITHIN RIGHT-OF-WAY.

PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	LANDSCAPE PLAN	SHEET	E



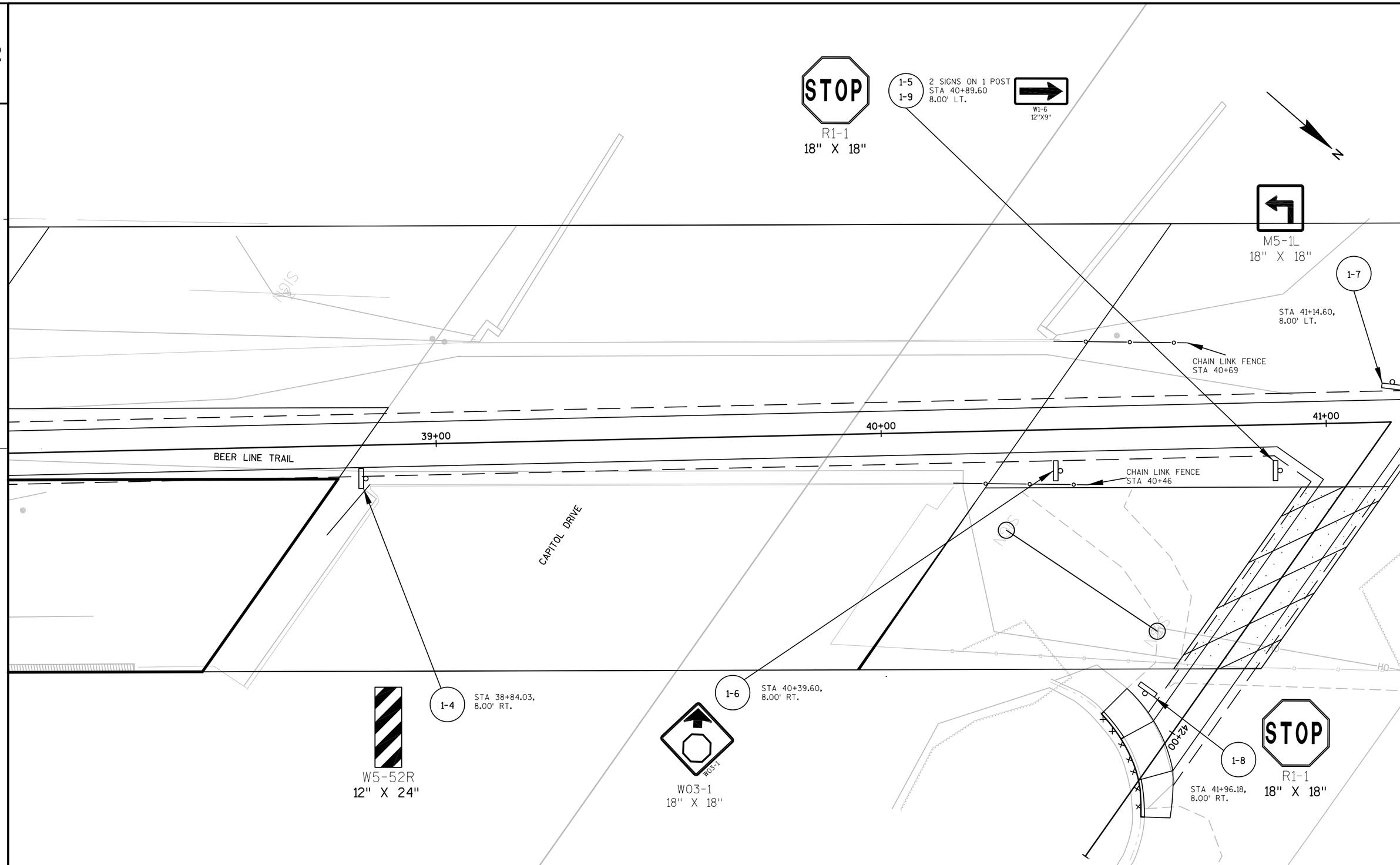
PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PERMANENT SIGNING	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\023201_PS.DWG
VFG - PATH CENTERLINE - (1) - 01
PLOT DATE : 9/10/2014 11:21 AM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PERMANENT SIGNING	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\023201_PS.DWG
VFG - PATH CENTERLINE - (1) - 02
PLOT DATE : 9/10/2014 11:21 AM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PERMANENT SIGNING	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\023201_PS.DWG
VFG - PATH CENTERLINE - (1) - 03
PLOT DATE : 9/10/2014 11:21 AM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1:20_XREF

3

EARTH WORK SUMMARY

Division	From / To Station	Location	Common Excavation (1) (item #205.0100)	Available Material (2)	Topsoil Stripping (3)	Topsoil in Shoulder Fill (4)	Expanded Topsoil Backfill (5) Factor 1.30	Unexpanded Fill	Expanded Fill (6) Factor 1.25	Mass Ordinate + / - (7)	Waste	Borrow (item #208.0100)	Comment:
1	10+29.88 to 42+04.56	Beer Line Trail	798	0	1231	196	1600	182	228	-228	1833	1828	
Grand Total	Total		798					182	228	-228	1833	1828	
		Total Common Excavation		2029									

1) Common Excavation is the incremental volume (CY) unadjusted
2) Available Material
3) Topsoil Stripping is the volume (CY) of soil removal in disturbed areas
4) Topsoil in Shoulder Fill is the volume (CY) of soil needed to fill the shoulders
5) Expanded Topsoil Backfill Factor = 1.30
6) Expanded Fill Factor = 1.25
7) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

3

REMOVING FENCE

CATEGORY	STATION	LOCATION	204.0170 REMOVING FENCE LF
010	BEERLINE		
	41+81.65	-	18
	TOTAL		18

REMOVING PAVEMENT

CATEGORY	STATION	LOCATION	204.0100 REMOVING PAVEMENT SF
010	BEERLINE		
	10+32.75	LT+RT	1,217
	TOTAL		1,217.3

3

CURB AND GUTTER ITEMS

CATEGORY	STATION	LOCATION	204.0150 REMOVING CURB & GUTTER LF	601.0331 CONCRETE CURB & GUTTER 31-INCH LF
0010	BEERLINE			
	10+20.91	LT&RT	22	22
	42+12.24	LT&RT	26	26
	ABERT			
	0+46.59	LT&RT	10	10
	TOTAL		58	58

REMOVING RAILROAD TRACK

CATEGORY	STATION	LOCATION	204.0200 REMOVING RAILROAD TRACK LF
010	BEERLINE		
	10+32.75	LT+RT	44.5
	TOTAL		44.5

3

EARTHWORK (CONTAMINATED SOIL)

LOCATION	205.0501.S EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL TON	COMMENTS
BEERLINE		
10+50 - 14+00	543	NON-REUSABLE
18+50 - 19+50	216	NON-REUSABLE
26+50 - 27+50	314	NON-REUSABLE
30+50 - 34+00	450	NON-REUSABLE
36+50 - 37+00	58	NON-REUSABLE
38+00 - 38+50	8	NON-REUSABLE
TOTAL	1,589	

BASE AGGREGATE ITEMS

CATEGORY	STATION	LOCATION	305.0120 BASE AGGREGATE DENSE 1-1/4 INCH* TON
010	BEERLINE		
	10+29.75 - 38+85		2,073
	38+85 - 40+24		50
	40+24 - 41+14.60		66
	41+14.60 - 42+04.56		65
	ABERT		
	0+00 - 0+34.58		20
	TOTAL		2,274

*Note: Other quantities of this item for landscaping

3

AGGREGATE ITEMS

(LANDSCAPING)

CATEGORY	STATION	LOCATION	305.0120 BASE AGGREGATE DENSE 1-1/4 INCH* TONS
010	BEERLINE		
	15+35 - 15+66	RT	18.0
	15+45 - 15+76	LT	21.5
	15+93 - 16+24	RT	49.3
	16+03 - 16+34	LT	21.5
	23+30 - 23+48	LT	44.0
	23+67 - 24+04	LT	87.6
	29+39 - 29+51	LT	22.3
	29+53 - 29+90	RT	26.0
	29+63 - 30+01	LT	87.6
	34+68 - 35+01	RT	74.2
	TOTAL		452

ASPHALTIC ITEMS

CATEGORY	STATION	455.0105 ASPHALTIC MATERIAL PG58-28 TON	455.0605 TACK COAT GAL	460.1100 HMA PAVEMENT TYPE E-0.3 TON
010	BEERLINE			
	10+29.75 - 41+14.60	55	87.68	1,008
	41+14.60 - 42+02.87	2	2.45	28
	ABERT			
	0+10.00 - 0+18.04	1	.92	11
	TOTAL	58	91.05	1,047

3

CHAIN LINK FENCE

CATEGORY	STATION	LOCATION	616.0206 CHAIN LINK FENCE LF
	BEERLINE		
0010	38+75 - 38+84	9' RT	30
	40+39 - 40+69	20' LT	30
	40+18 - 40+46	10' RT	30
	TOTAL		90

CONCRETE ITEMS

CATEGORY	STATION	LOCATION	602.0415 CONCRETE SIDEWALK 6-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	COMMENT
0010	BEERLINE				
	10+29.75	RT&LT	198	18	SIDEWALK CONNECTION TO N. RICHARDS ST.
	42+02.87	RT&LT	209	18	
	W.ABERT PL				
	29+20	RT	119	18	SIDEWALK CONNECTION TO W. ABERT PL
	TOTAL		526	54	

3

MOBILIZATION

CATEGORY	LOCATION	619.1000 MOBILIZATION EACH
0010	BEERLINE	1
	TOTAL	1

FINISHING ITEMS

CATEGORY	STATION	LOCATION		625.0500 SALVAGE TOPSOIL* SY	627.0200 MULCHING* SY	629.0205 FERTILIZER TYPE A* CWT	630.0140 SEEDING MIXTURE NO. 40* LB	630.0200 SEEDING TEMPORARY* LB
010	BEERLINE							
	10+29.88 - 38+83.30	RT+LT	TOTAL	2,515	2,515	1.58	45.27	68
	38+83.30 - 42+02.87	RT+LT	TOTAL	10	10	-	0.18	0.26
	ABERT						-	-
	0+12.81 - 0+42	RT+LT	TOTAL	16	16	0.01	0.29	0.43
						-	-	-
	TOTAL			2,541	2,541	1.59	45.73	68.60

* Additional Quantities Elsewhere

3

LAWN SEEDING ITEMS

CATEGORY	STATION	LOCATION	625.0500 SALVAGE TOPSOIL* SY	627.0200 MULCHING* SY	629.0205 FERTILIZER TYPE A* CWT	630.0140 SEEDING MIXTURE NO. 40* LB	630.0200 SEEDING TEMPORARY* LB
010	BEERLINE						
	14+14 - 14+97	LT	169	169	0.1	3	5
	14+34 - 15+17	RT	563	563	0.4	10	15
	19+57 - 20+58	LT	172	172	0.1	3	5
	19+75 - 20+78	RT	688	688	0.4	12	19
	25+76 - 26+23	LT	313	313	0.2	6	8
	25+95 - 26+42	RT	75	75	0.0	1	2
	30+80 - 31+59	LT	505	505	0.3	9	14
	30+99 - 31+70	RT	307	307	0.2	6	8
	34+68 - 35+91	LT	189	189	0.1	3	5
	35+33 - 36+10	RT	250	250	0.2	5	7
	TOTAL		3,231	3,231	2	58	87

* Additional Quantities Elsewhere

SAW CUTTING ITEMS

CATEGORY	STATION	690.0150 SAWING CONCRETE LF
010	BEERLINE	
	42+03	12
	10+20	22
	ABERT	
	0+35	14
	TOTAL	48

3

EROSION MATERIALS

CATEGORY	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7560 TRACKING PADS EACH
010	BEERLINE				
	10+30 - 38+83	LT & RT	5,706	5,706	-
	40+33 - 41+15	LT & RT	164	164	-
	41+15 - 42+03	LT & RT	176	176	-
	10+30	LT & RT	-	-	1
	TOTAL		6,046	6,046	1

PERMANENT SIGNING

CATEGORY	STATION	LOCATION	NUMBER	637.2210 SIGNS REFLECTIVE H TYPE II SF	634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	SIGN MESSAGE
010	BEERLINE					
	10+34.33	LT	1-1	2.25	1	STOP
	38+84.03	RT	1-4	2.00	1	OBJECT MARKER
	40+89.60	RT	1-5	2.25	1	STOP
	40+14.60	RT	1-6	2.25	1	STOP AHEAD
	41+14.60	LT	1-7	2.25	1	LEFT TURN
	41+96.18	RT	1-8	2.25	1	STOP
	40+89.60	RT	1-9	.75	-	RIGHT ARROW
	ABERT					
	0+16.28	LT	1-3	2.25	1	STOP
	0+28.10	RT	1-2	2.25	1	STOP
	TOTAL			18.50	8	

3

FINISHING ROADWAY

CATEGORY	STATION	LOCATION	213.0100 FINISHING ROADWAY EACH
010	BEERLINE		
	ROADWAY	-	1
	TOTAL		1.0

RAILROAD TIE FOR GROUPINGS

CATEGORY	STATION	LOCATION	SPV.0060.01 RAILROAD TIE EACH
010	BEERLINE		
	15+35 - 15+66	RT	21
	15+45 - 15+76	LT	21
	15+93 - 16+24	RT	58
	16+03 - 16+34	LT	21
	23+30 - 23+48	LT	56
	23+67 - 24+04	LT	100
	29+39 - 29+51	LT	30
	29+53 - 29+90	RT	25
	29+63 - 30+01	LT	75
	34+68 - 35+01	RT	75
	TOTAL		482

3

PANEL EDGING

CATEGORY	STATION	LOCATION	SPV.0090.01 EDGING LF
010	BEERLINE		
	14+14 - 14+97	LT	151
	14+34 - 15+17	RT	211
	19+57 - 20+58	LT	159
	19+75 - 20+78	RT	316
	25+76 - 26+23	LT	250
	25+95 - 26+42	RT	100
	30+80 - 31+59	LT	260
	30+99 - 31+70	RT	200
	34+68 - 35+91	LT	201
	35+33 - 36+10	RT	152
	TOTAL		1,999

LIMESTONE SCREENING ITEMS

CATEGORY	STATION	LOCATION	SPV.0195.01 LIMESTONE SCREENING TON
010	BEERLINE		
	15+35 - 15+66	RT	6.7
	15+45 - 15+76	LT	8.0
	15+93 - 16+24	RT	18.4
	16+03 - 16+34	LT	8.0
	23+30 - 23+48	LT	16.4
	23+67 - 24+04	LT	37.7
	29+39 - 29+51	LT	8.4
	29+53 - 29+90	RT	9.8
	29+63 - 30+01	LT	23.8
	34+68 - 35+01	RT	26.9
	TOTAL		164

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
2984-34-21	4.0	4
FEDERAL PROJECT NUMBER ----------		

PLAT OF RIGHT-OF-WAY REQUIRED FOR

BEER LINE BICYCLE TRAIL EXTENSION
N. RICHARDS ST. TO CAPITOL DR.

NON-HWY MILWAUKEE COUNTY

CONSTRUCTION PROJECT NUMBER
2984-34-71

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

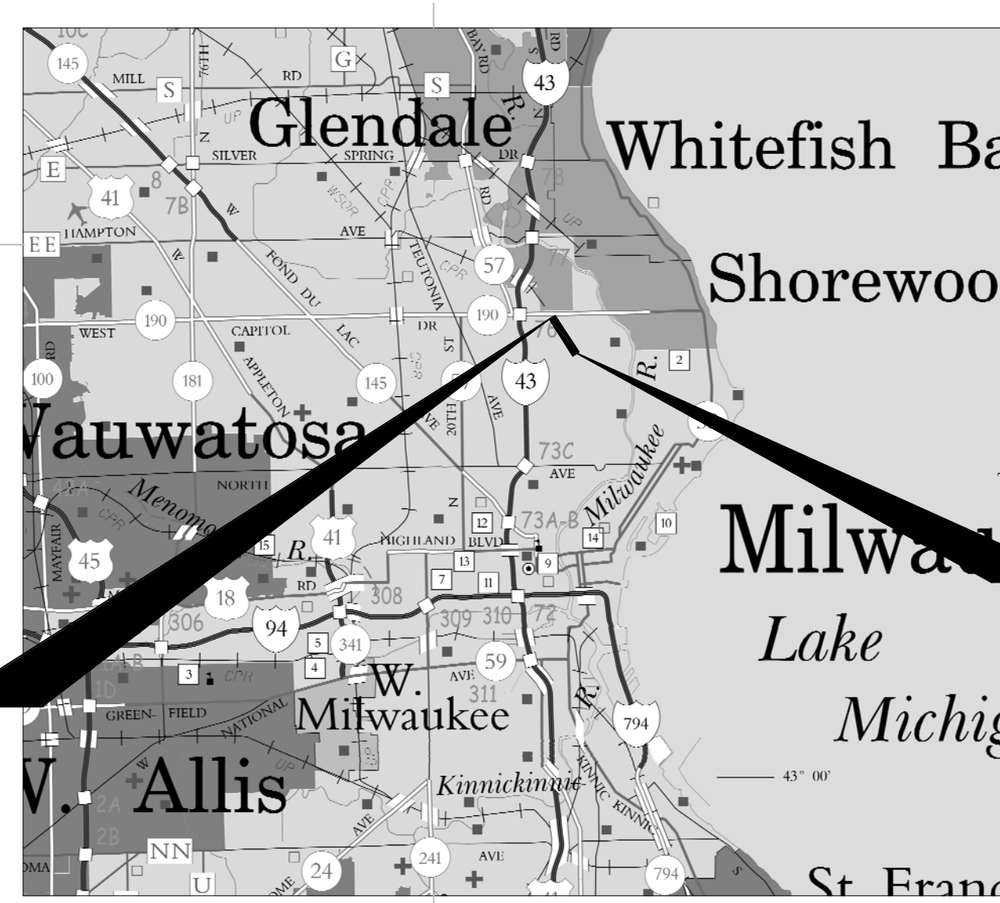
CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN — LF (1" UNLESS NOTED)
R/W MONUMENT — (SET)
R/W STANDARD — (SET)
SIGN — SIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT — RWB20
PARCEL NUMBER — 102
UTILITY PARCEL NUMBER — 92
SIGN NUMBER (OFF PREMISE) — 21-1
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
NO ACCESS (BY ACQUISTION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

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	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		



BEGIN RELOCATION ORDER

197.29' N. OF AND 3.81' E. OF THE EAST 1/4 COR. OF SEC. 8, T7N, R22E

END RELOCATION ORDER

99.55' N. OF AND 806.60' E. OF THE NORTH 1/4 COR. OF SEC. 8, T7N, R22E

NOTES

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD 83 (1997) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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.

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.569 MI.

K. Singh & Associates, Inc.
ENGINEERS, SCIENTISTS, & ENVIRONMENTAL CONSULTANTS
3636 N. 124th Street
Wauwatosa, WI 53222
Phone: (262) 821-1171 www.ksaconsultants.com

WISCONSIN PAUL A. KUBICEK S-2232 OAK CREEK, WI LAND SURVEYOR

PRINTED NAME	SIGNATURE	DATE
PAUL A. KUBICEK R.L.S. #2232		8-06-2014

REVISION DATE	
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ACCEPTED FOR CITY OF MILWAUKEE

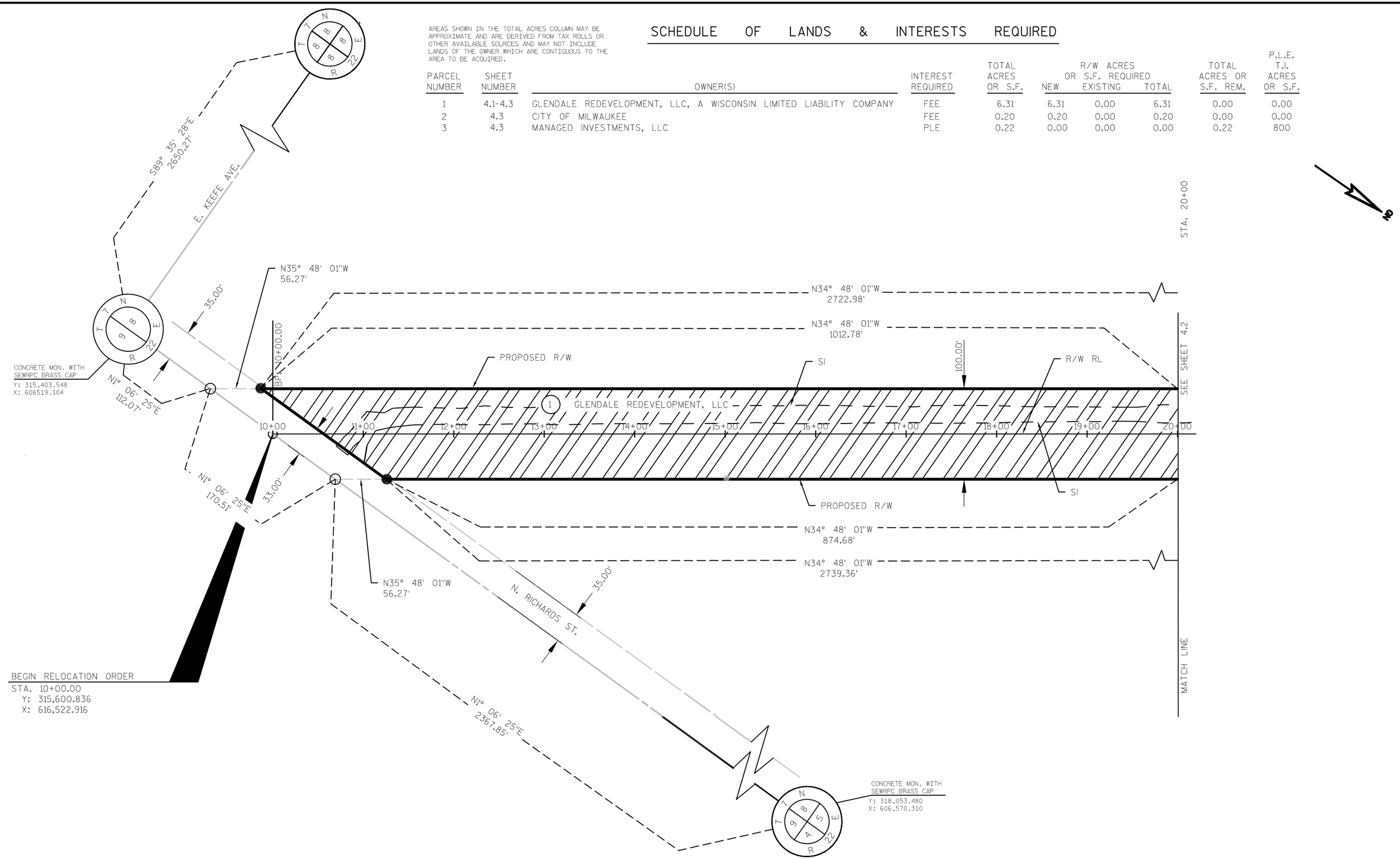
DATE:_____ _____ (Signature)

E

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE CONTIGUOUS TO THE AREA TO BE ACQUIRED.

SCHEDULE OF LANDS & INTERESTS REQUIRED

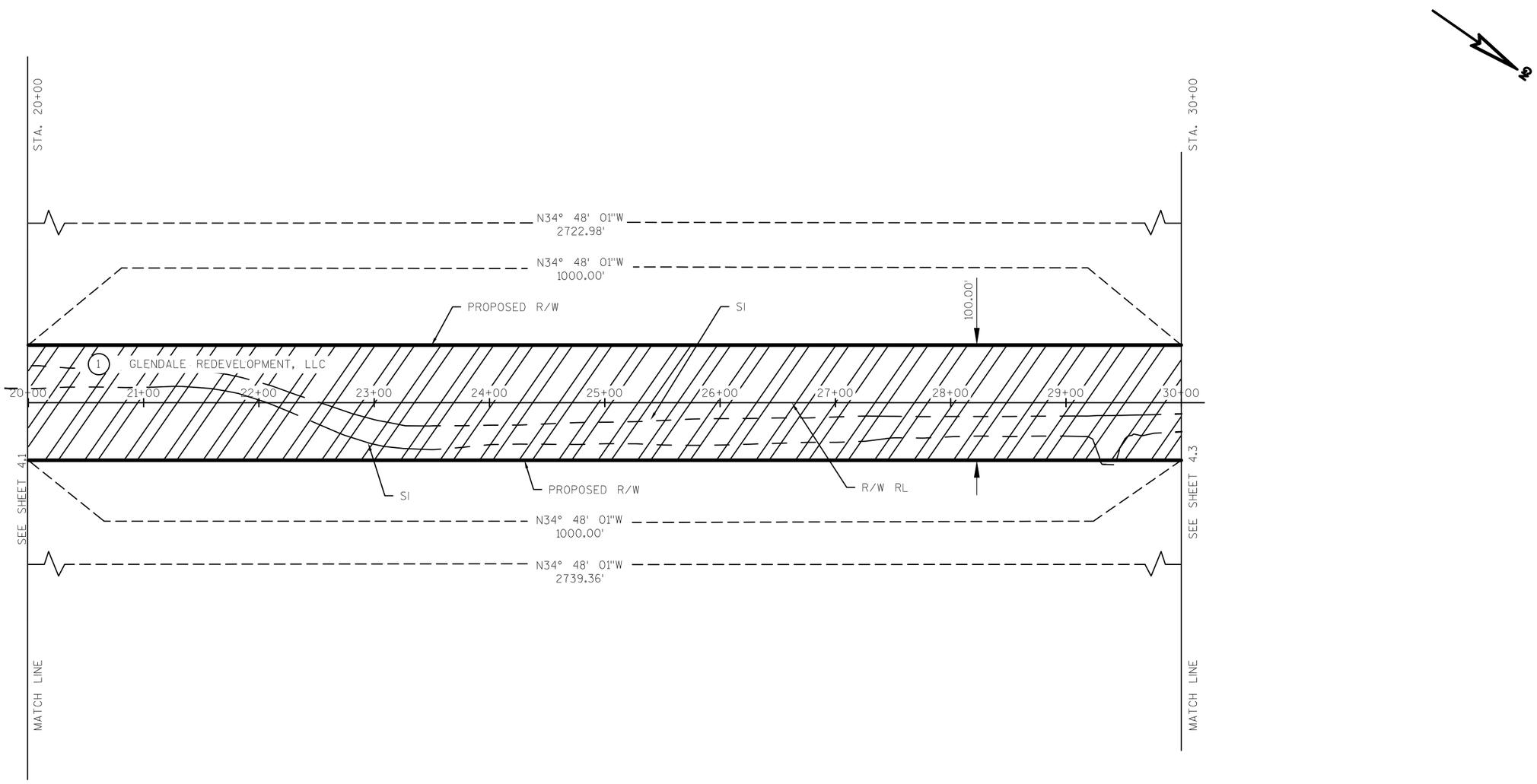
PARCEL NUMBER	SHEET NUMBER	OWNER(S)	INTEREST REQUIRED	TOTAL ACRES OR S.F.	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TOTAL ACRES OR S.F. REM.	P.L.E. T.I. ACRES OR S.F.
1	4.1-4.3	GLENDALE REDEVELOPMENT, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	FEE	6.31	6.31	0.00	6.31	0.00	0.00
2	4.3	CITY OF MILWAUKEE	FEE	0.20	0.20	0.00	0.20	0.00	0.00
3	4.3	MANAGED INVESTMENTS, LLC	PLE	0.22	0.00	0.00	0.00	0.22	800



REVISION DATE	DATE 07/22/2014	SCALE. FEET 0 50 100	HWY: NON-HWY	STATE R/W PROJECT NUMBER 2984-34-21	PLAT SHEET 4.1	
	GRID FACTOR _____		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 2984-34-71	PS&E SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\SURVEY\PLATS\8473_PLAT_DETAILS_.DWG PLOT DATE : 9/15/2014 9:03 AM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1" = 100'_XREF

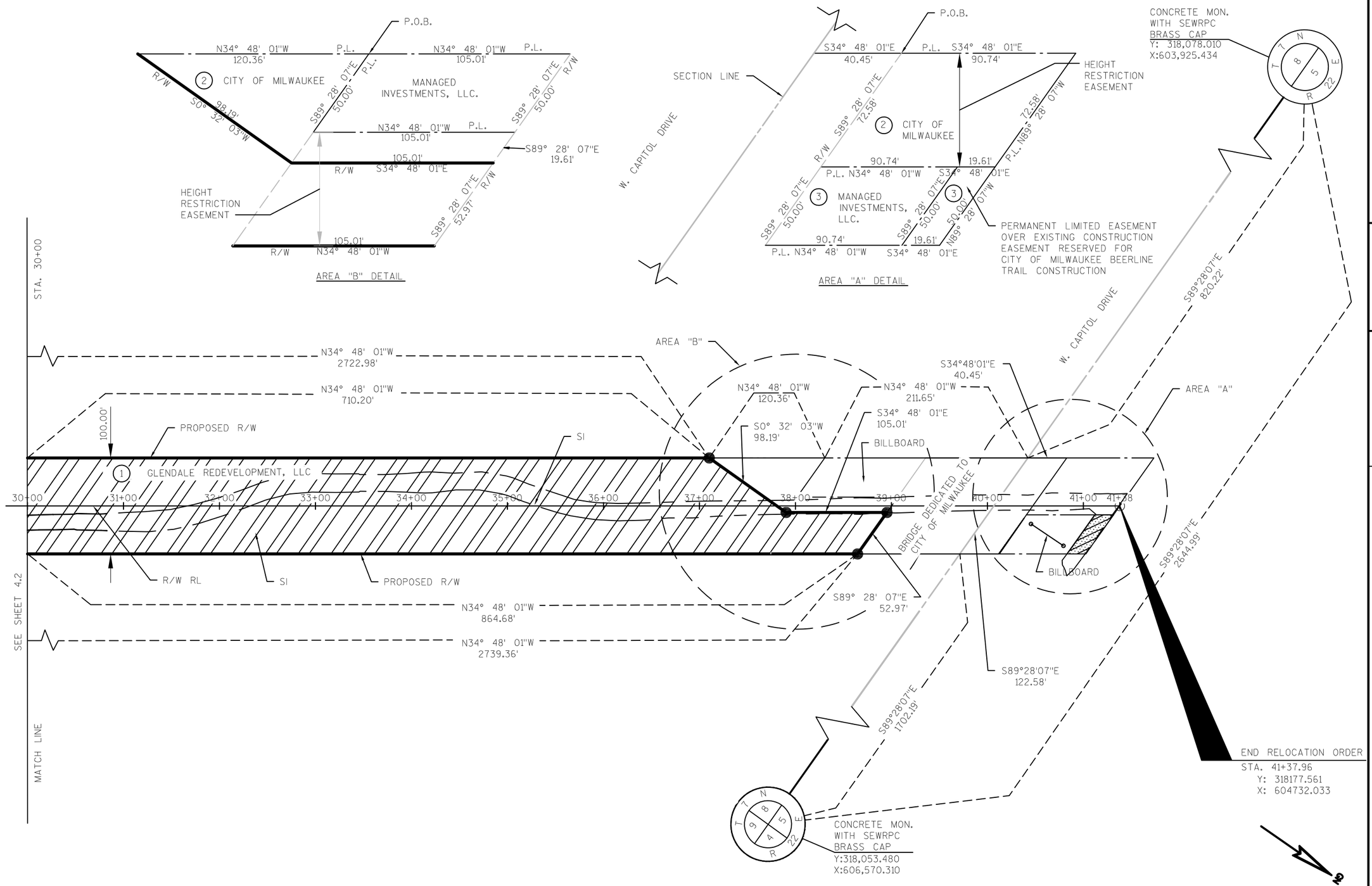
WISDOT/CADDS SHEET 75



REVISION DATE	DATE 07/22/2014	SCALE, FEET 0 50 100	HWY: NON-HWY	STATE R/W PROJECT NUMBER 2984-34-21	PLAT SHEET 4.2	
	GRID FACTOR _____		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 2984-34-71	PS&E SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\SURVEY\PLATS\8473_PLAT_DETAILS_.DWG PLOT DATE : 9/15/2014 9:04 AM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 75

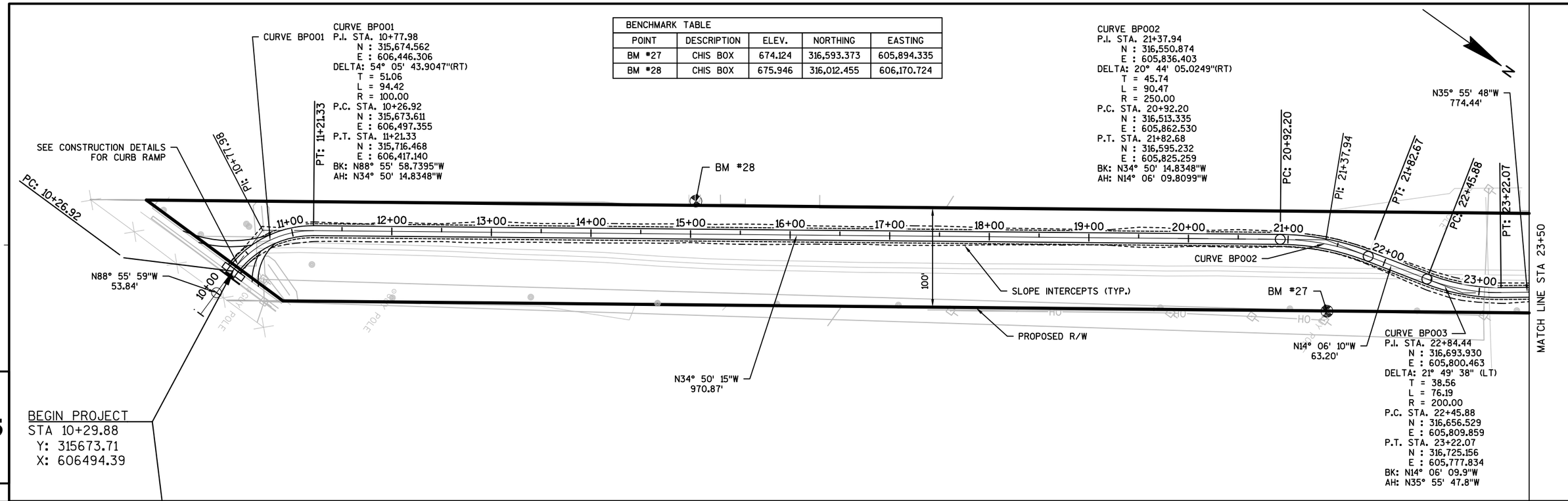


REVISION DATE	DATE 07/22/2014	SCALE. FEET 0 50 100	HWY: NON-HWY	STATE R/W PROJECT NUMBER 2984-34-21	PLAT SHEET 4.3
	GRID FACTOR		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 2984-34-71	PS&E SHEET E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\SURVEY\PLATS\8473_PLAT_DETAILS_.DWG PLOT DATE : 9/15/2014 9:04 AM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 75

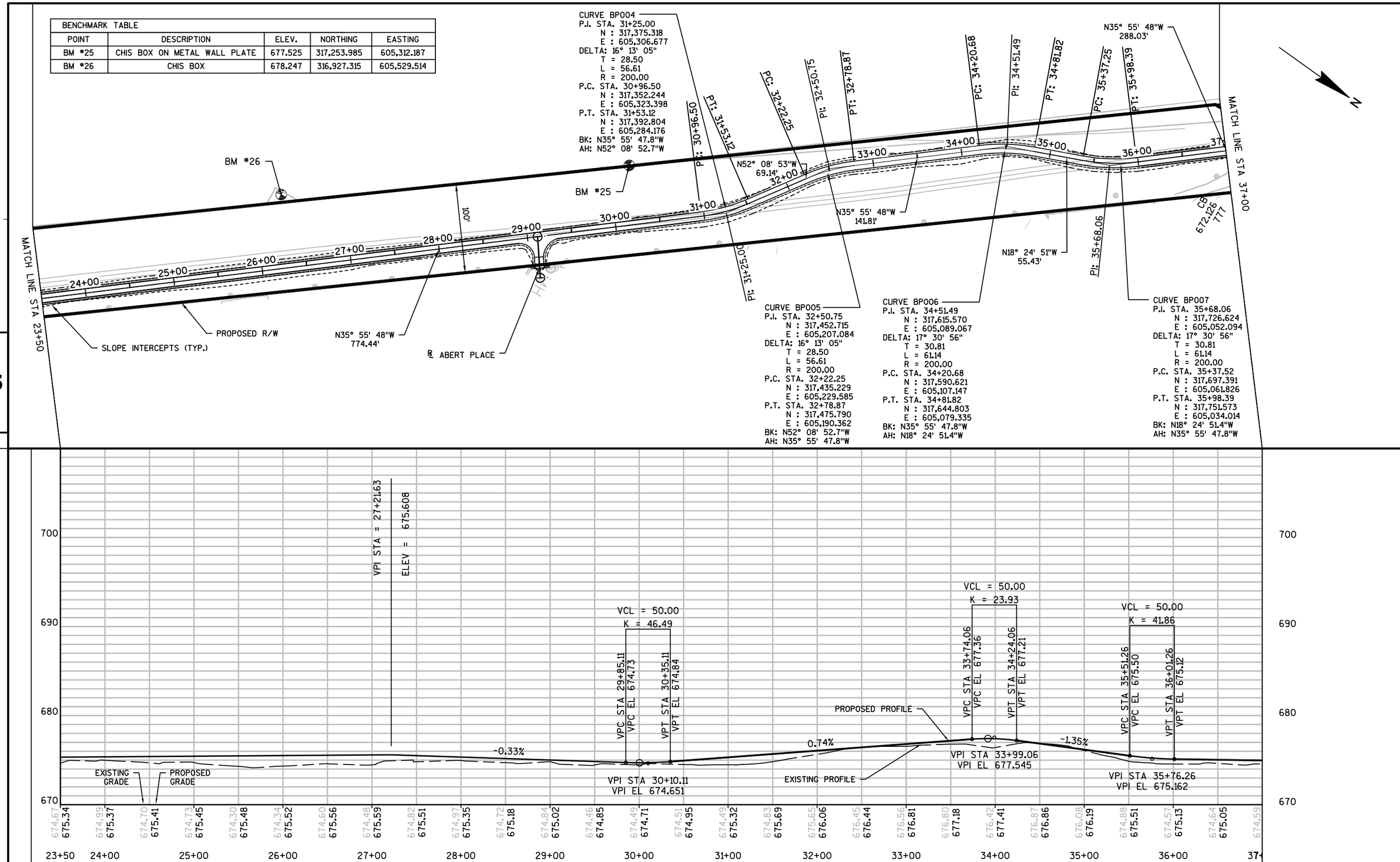
BENCHMARK TABLE				
POINT	DESCRIPTION	ELEV.	NORTHING	EASTING
BM #27	CHIS BOX	674.124	316,593.373	605,894.335
BM #28	CHIS BOX	675.946	316,012.455	606,170.724



PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PLAN AND PROFILE: BEER LINE	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\050101_PP.DWG
VFG - PATH CENTERLINE - (2) - 01
PLOT DATE : 9/8/2014 4:44 PM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1" = 100'_XREF

BENCHMARK TABLE				
POINT	DESCRIPTION	ELEV.	NORTHING	EASTING
BM #25	CHIS BOX ON METAL WALL PLATE	677.525	317,253.985	605,312.187
BM #26	CHIS BOX	678.247	316,927.315	605,529.514



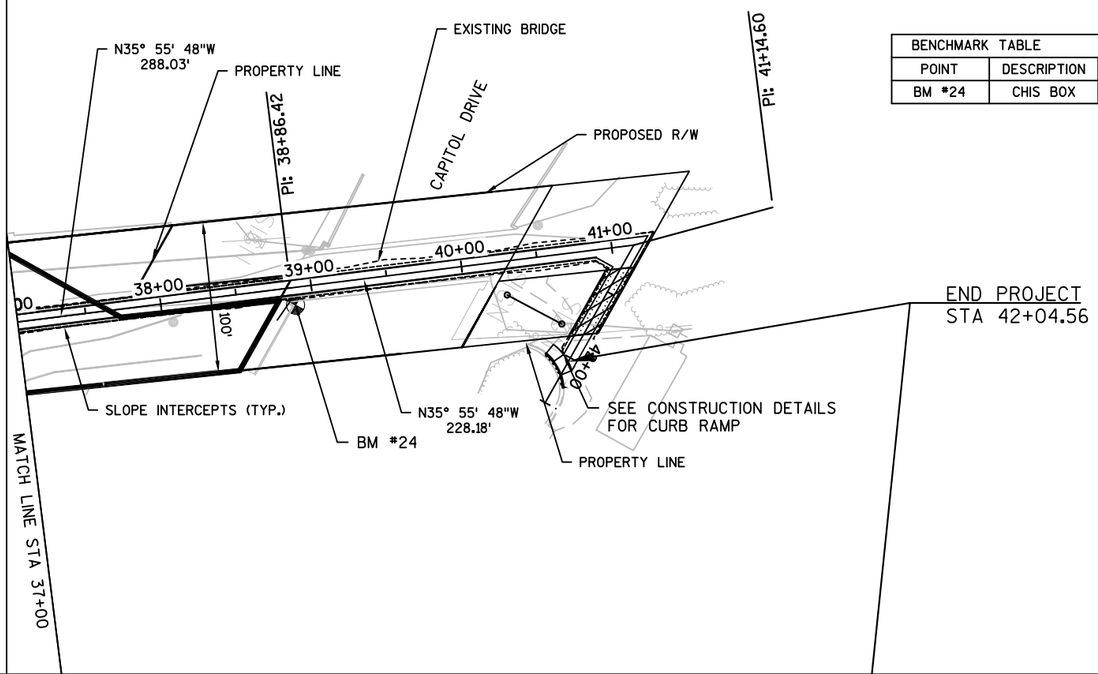
5

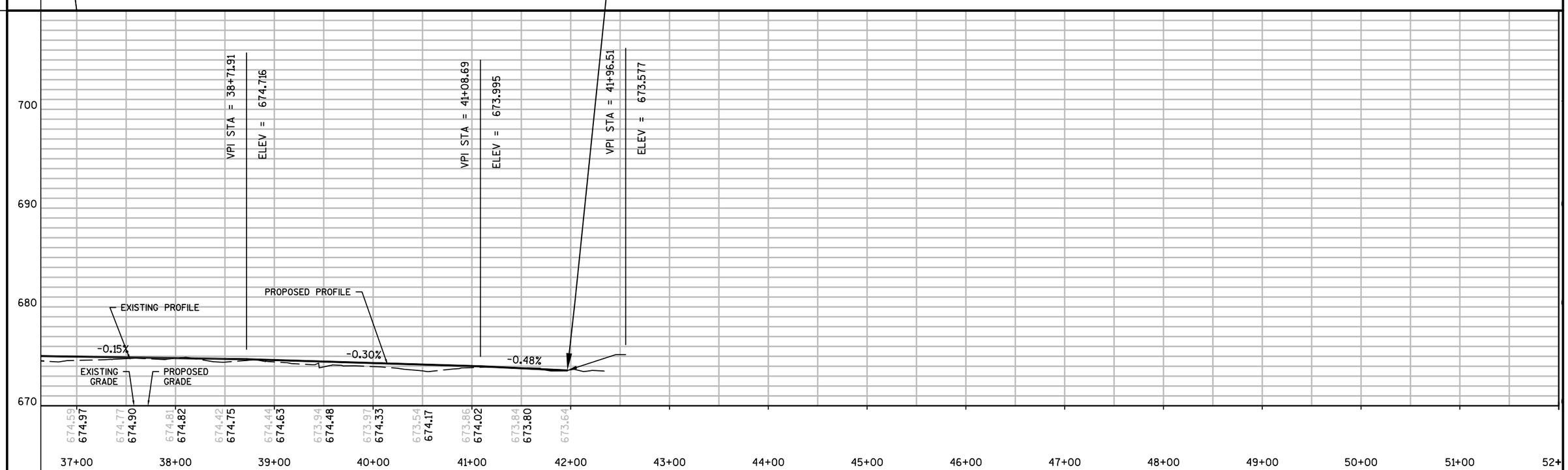
5

PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PLAN AND PROFILE: BEER LINE	SHEET	E

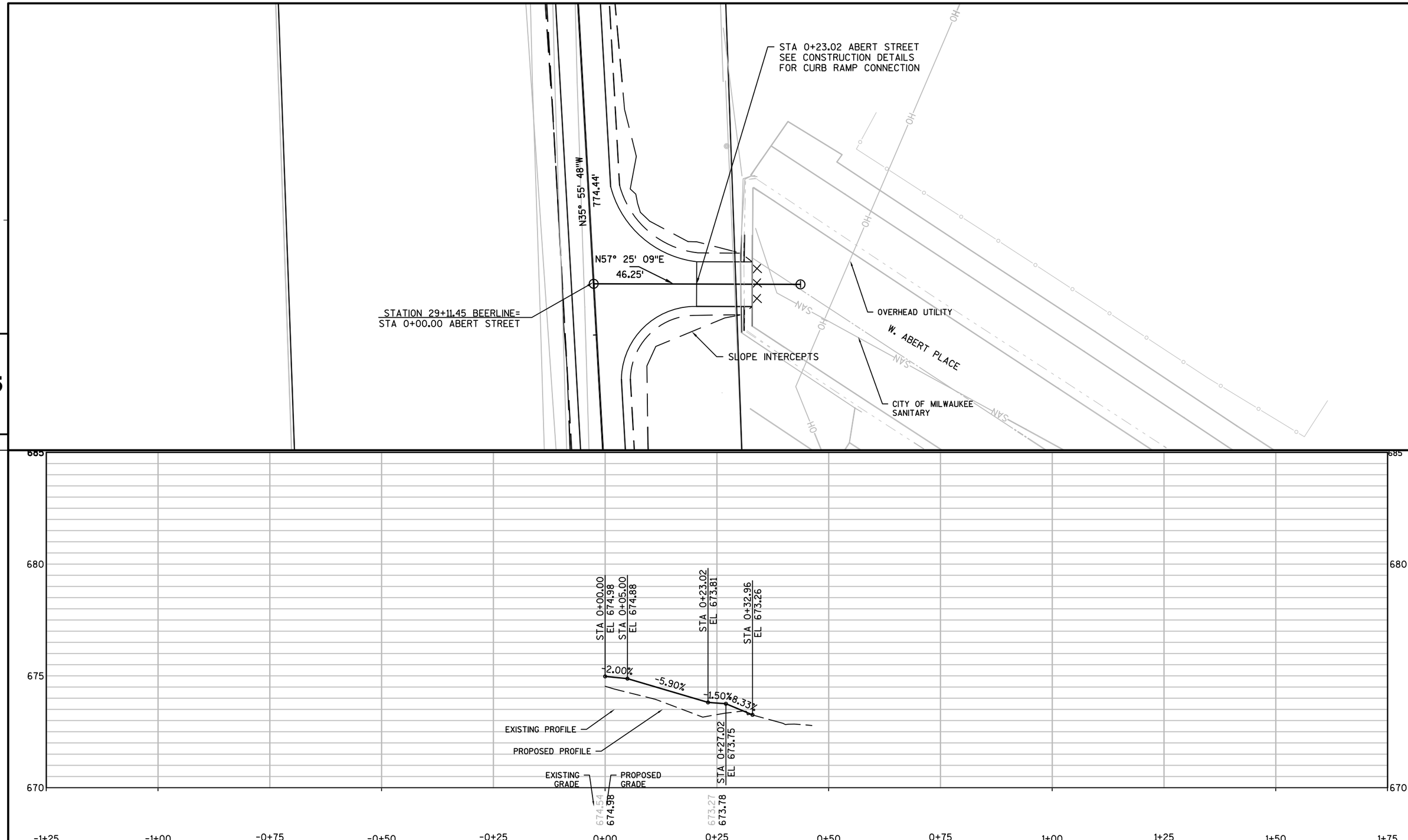
FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\050101_PP.DWG
VFG - PATH CENTERLINE - (2) - 02
PLOT DATE : 9/8/2014 4:44 PM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1" = 100'_XREF

BENCHMARK TABLE				
POINT	DESCRIPTION	ELEV.	NORTHING	EASTING
BM #24	CHIS BOX	674.881	317,993.123	604,873.446





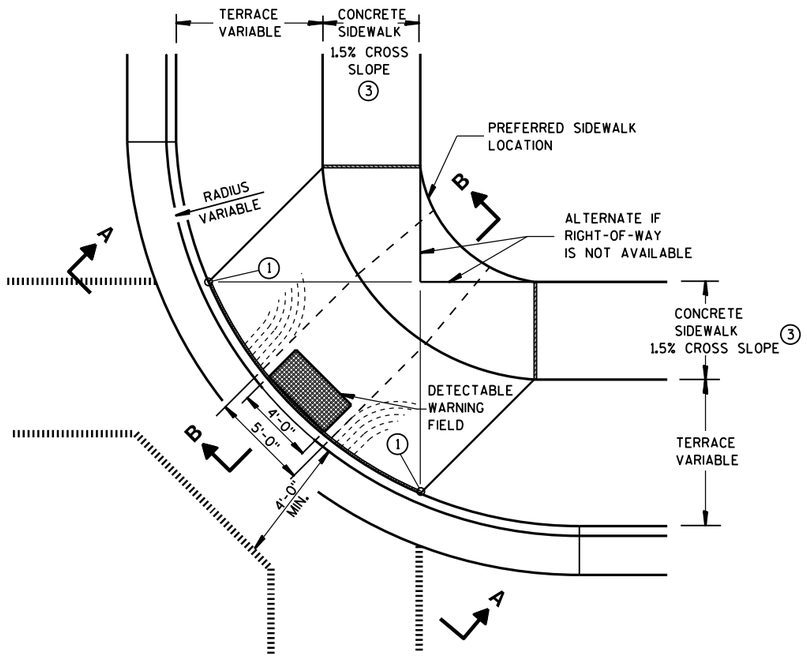
PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	PLAN AND PROFILE: BEER LINE	SHEET	E



PROJECT NO:2984-34-71	HWY:BEERLINE BICYCLE TRAIL	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. ABERT PLACE	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\050102_PP.DWG
LAYOUT NAME - SHEET - (1)
PLOT DATE : 9/8/2014 4:56 PM PLOT BY : JUSTIN FLICKINGER PLOT NAME : PLOT SCALE : 1:20_XREF

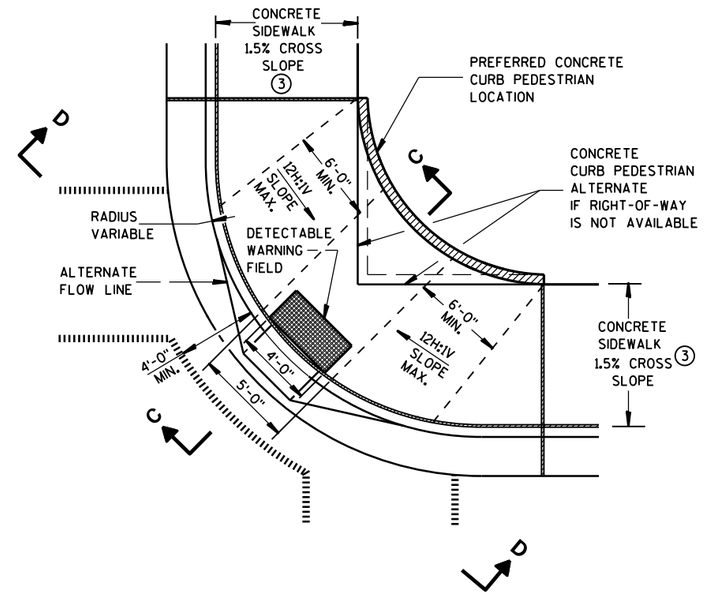
8D5 sheet a: Curb Ramps Types 1 and 1-A



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

GENERAL NOTES

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

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

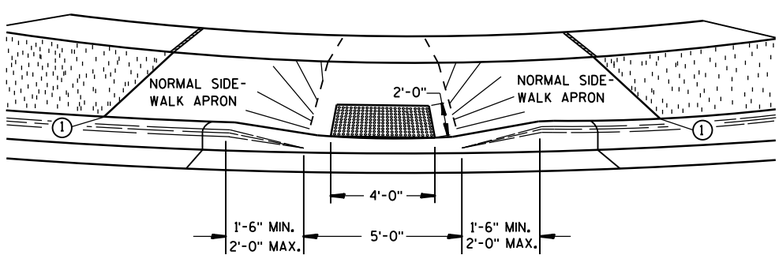
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

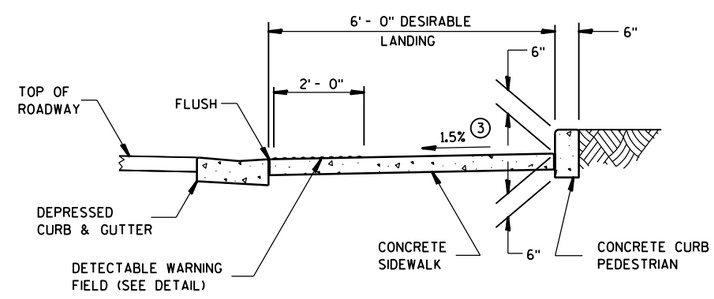
1. THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.
2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.
3. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

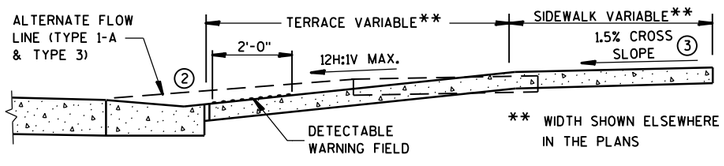
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



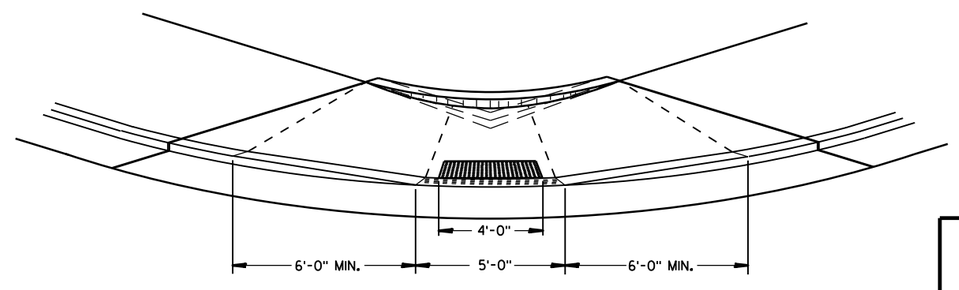
VIEW A-A



SECTION C-C



SECTION B-B



VIEW D-D

CURB RAMPS
TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

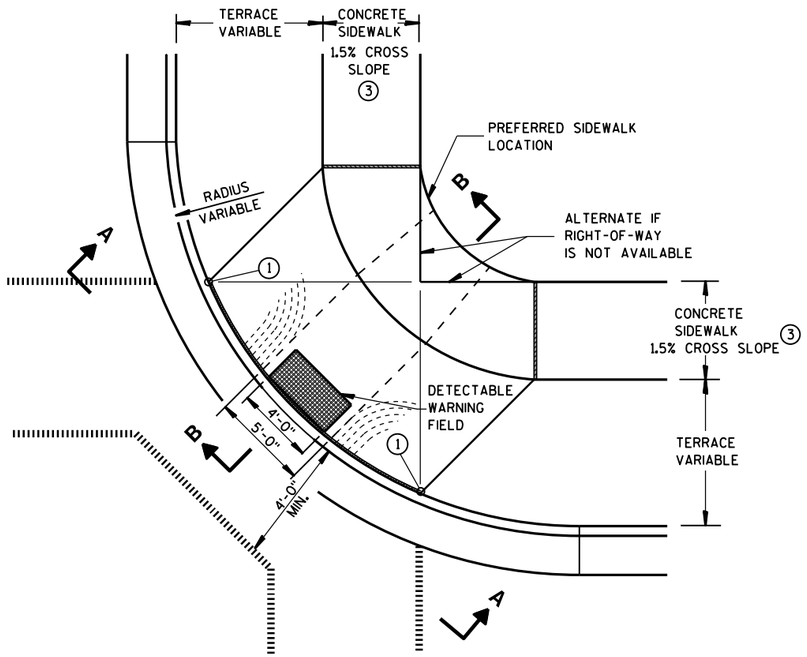
6

6

S.D.D. 8 D 5-15a

S.D.D. 8 D 5-15a

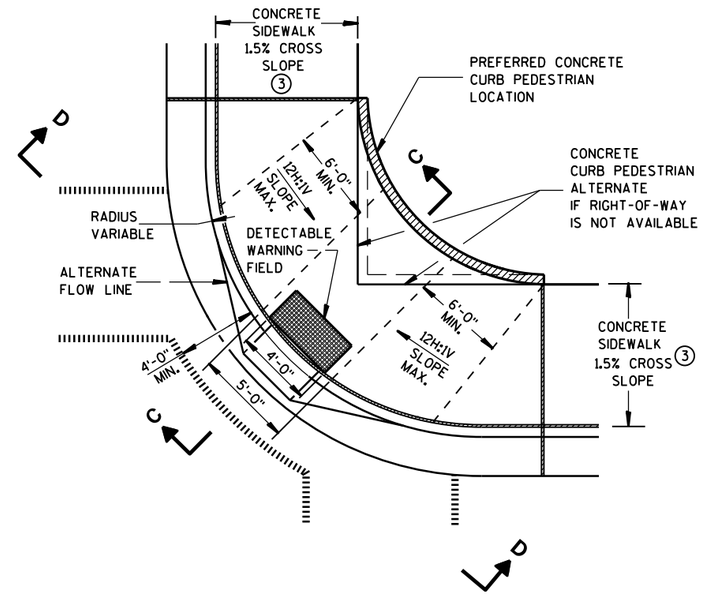
8D5 sheet a: Curb Ramps Types 1 and 1-A



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

GENERAL NOTES

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

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

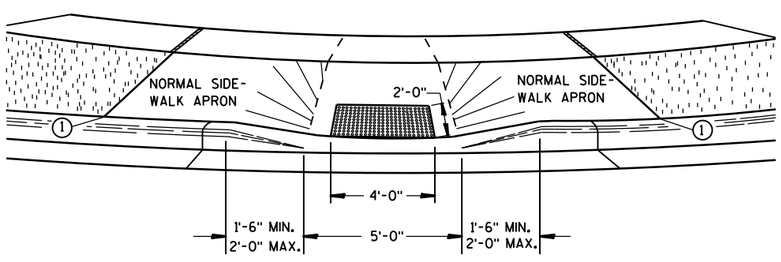
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

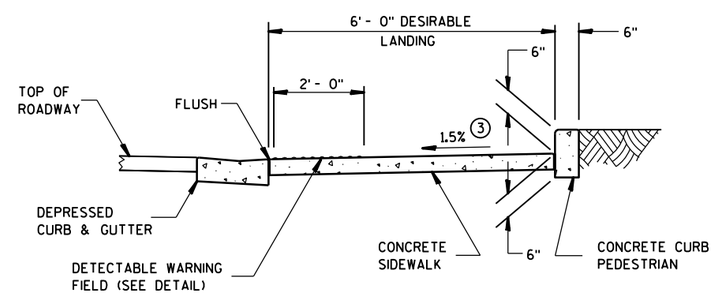
1. THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.
2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.
3. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

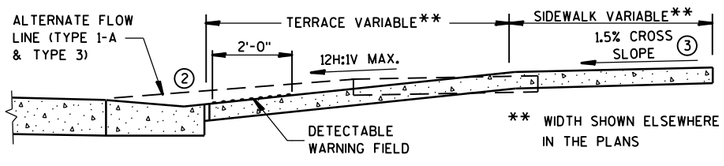
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



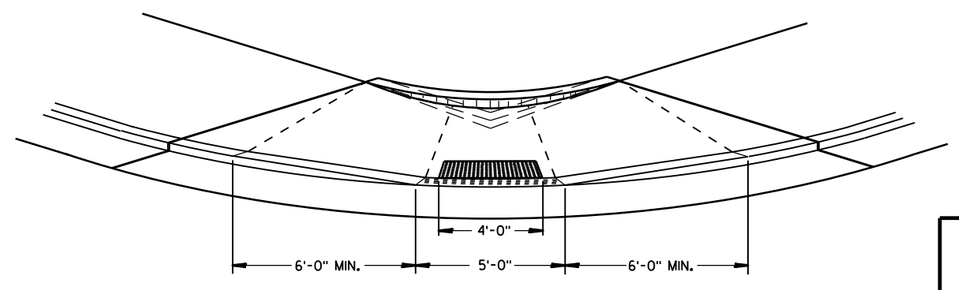
VIEW A-A



SECTION C-C



SECTION B-B



VIEW D-D

CURB RAMPS
TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

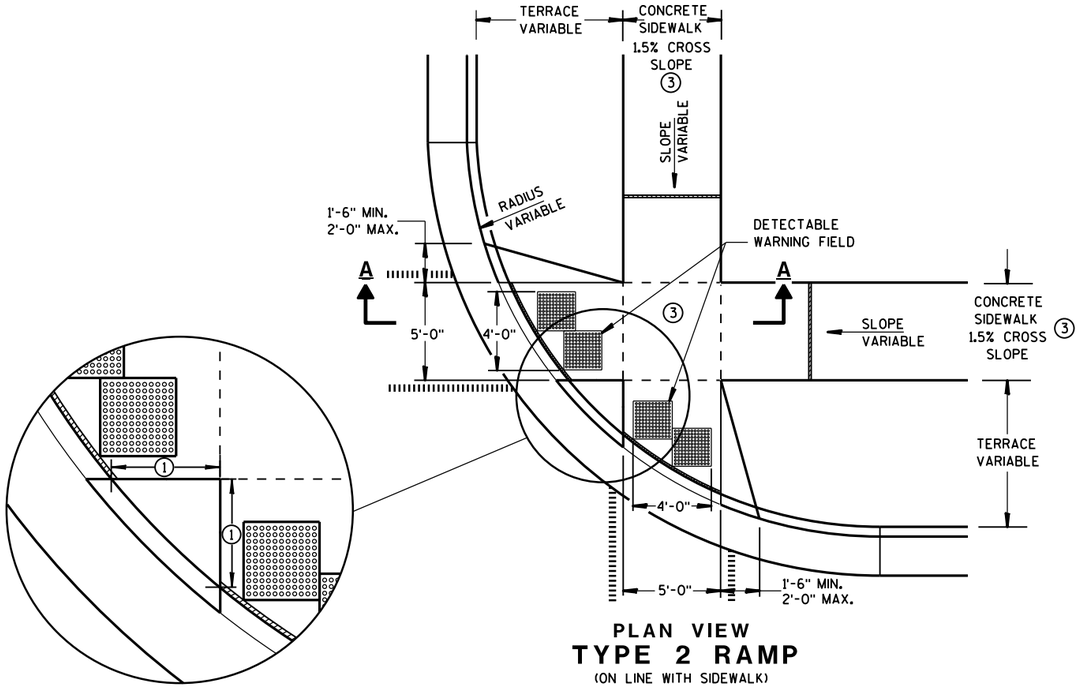
6

6

S.D.D. 8 D 5-15a

S.D.D. 8 D 5-15a

8D5 sheet b: Curb Ramps Types 2 and 3



PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

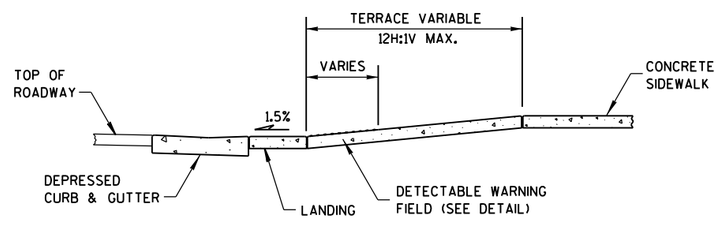
1. WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.

2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

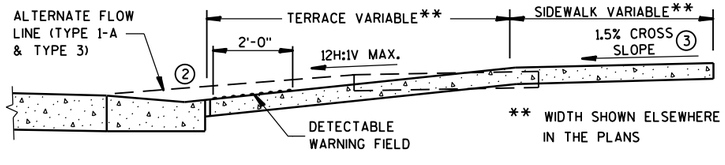
3. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

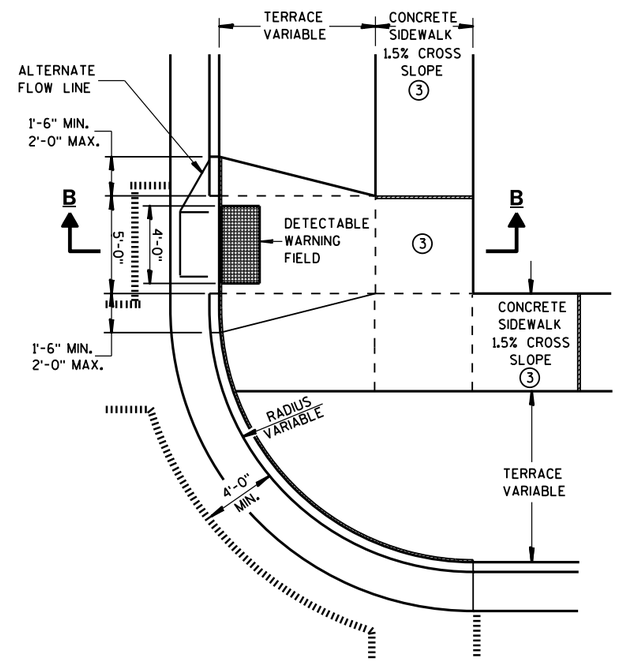
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



SECTION A-A



SECTION B-B



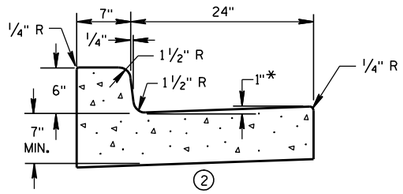
PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS
TYPES 2 AND 3

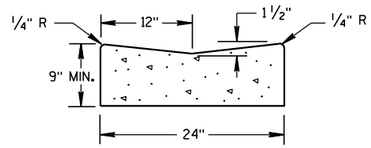
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

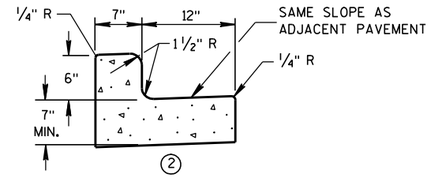
S.D.D. 8 D 5-15b



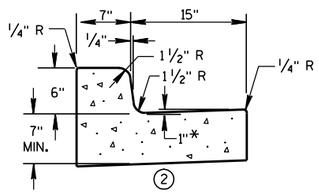
1 CONCRETE CURB & GUTTER 31"



1 CONCRETE GUTTER 24"

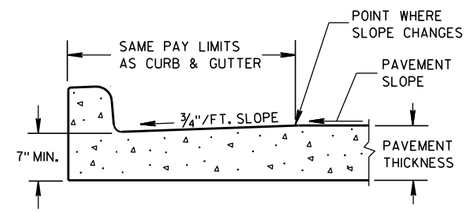


1 CONCRETE CURB & GUTTER 19"



1 CONCRETE CURB & GUTTER 22"

* TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER

GENERAL NOTES

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

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

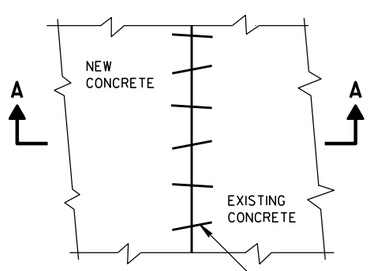
WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURB.

1 WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUIRED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".

2 THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MIMIMUM GUTTER THICKNESS IS MAINTAINED.

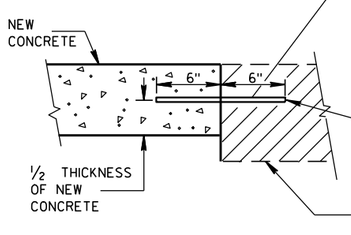
3 WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLAN.



PLAN VIEW

EXISTING AND NEW CONCRETE MAY BE CURB & GUTTER, SURFACE DRAIN, PAVEMENT OR OTHER CONCRETE STRUCTURE.

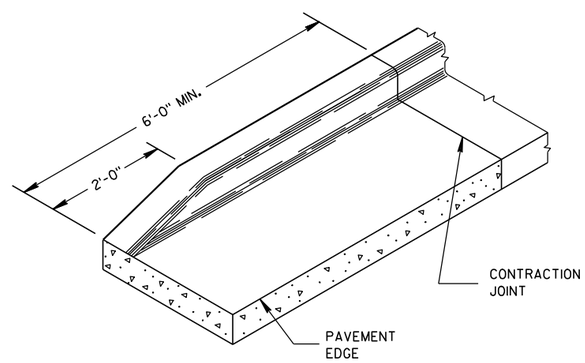
NO. 6 X 12" DEF. BARS SPACED 3'-0" C-C, INSTALLED ON 6:1 SKEW HORIZONTALLY. DIRECTION OF SKEW ALTERNATING AFTER EVERY ONE OR TWO BARS.



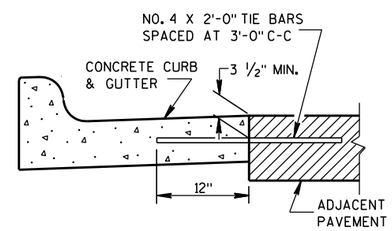
THE HOLE FOR THE BAR SHALL BE DRILLED TO A DEPTH OF 7" AND TO A DIAMETER TO PROVIDE A TIGHT DRIVEN FIT.

SECTION A-A

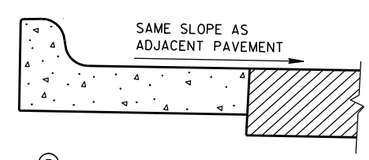
PAVEMENT TIES



END SECTION CURB & GUTTER



1 TYPICAL TIE BAR LOCATION



3 HIGH SIDE SECTION

(TYPICAL FOR ALL CURB & GUTTER)

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

(For Optional Use in Milwaukee Co. Only)

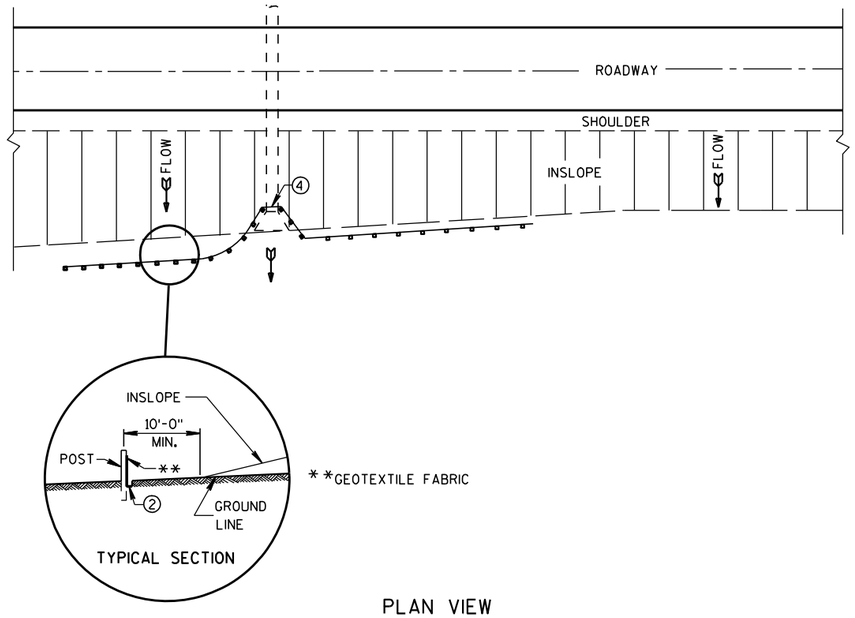
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/2/2010 — DATE

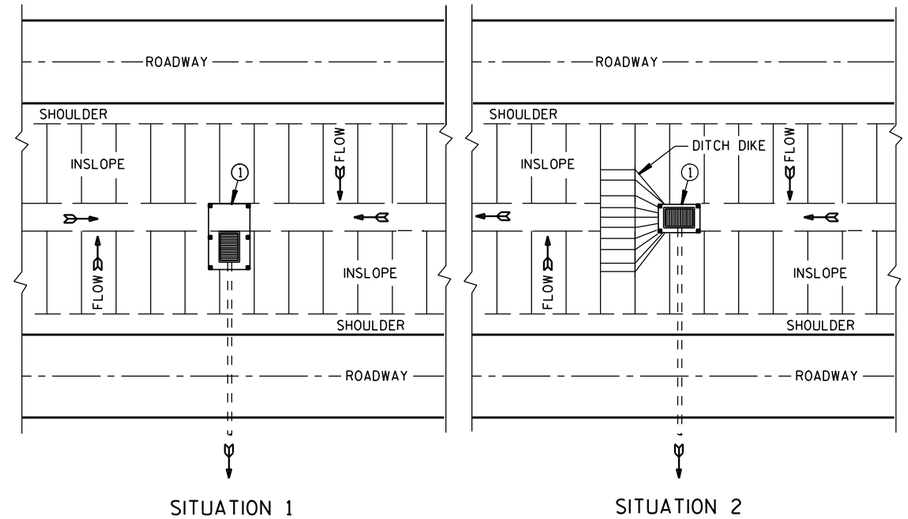
/S/ Jerry Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

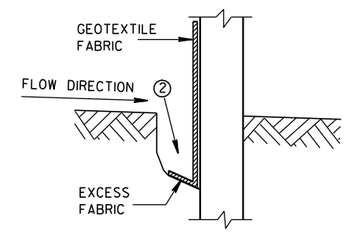
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

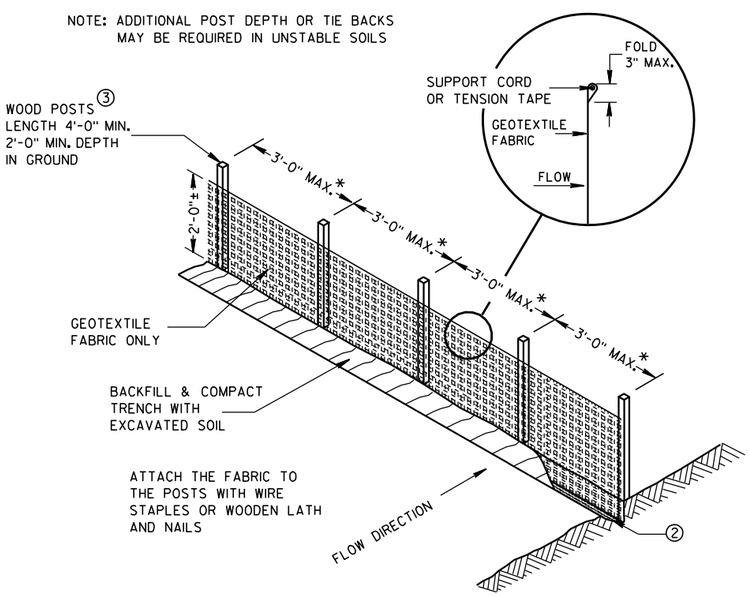
④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



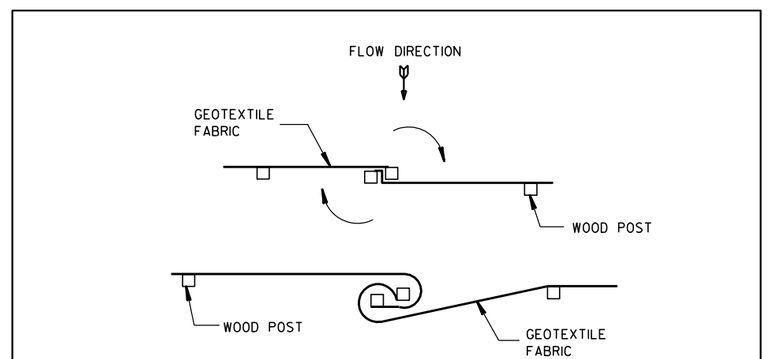
TRENCH DETAIL

NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

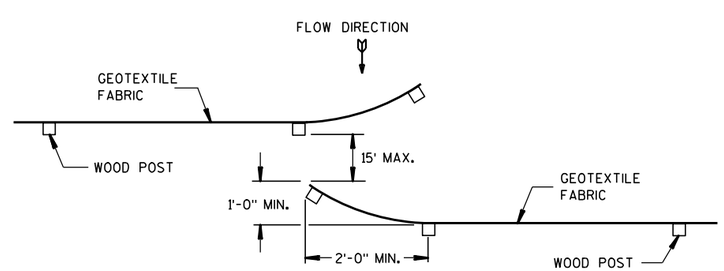


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

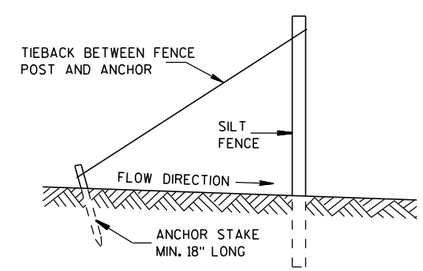


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

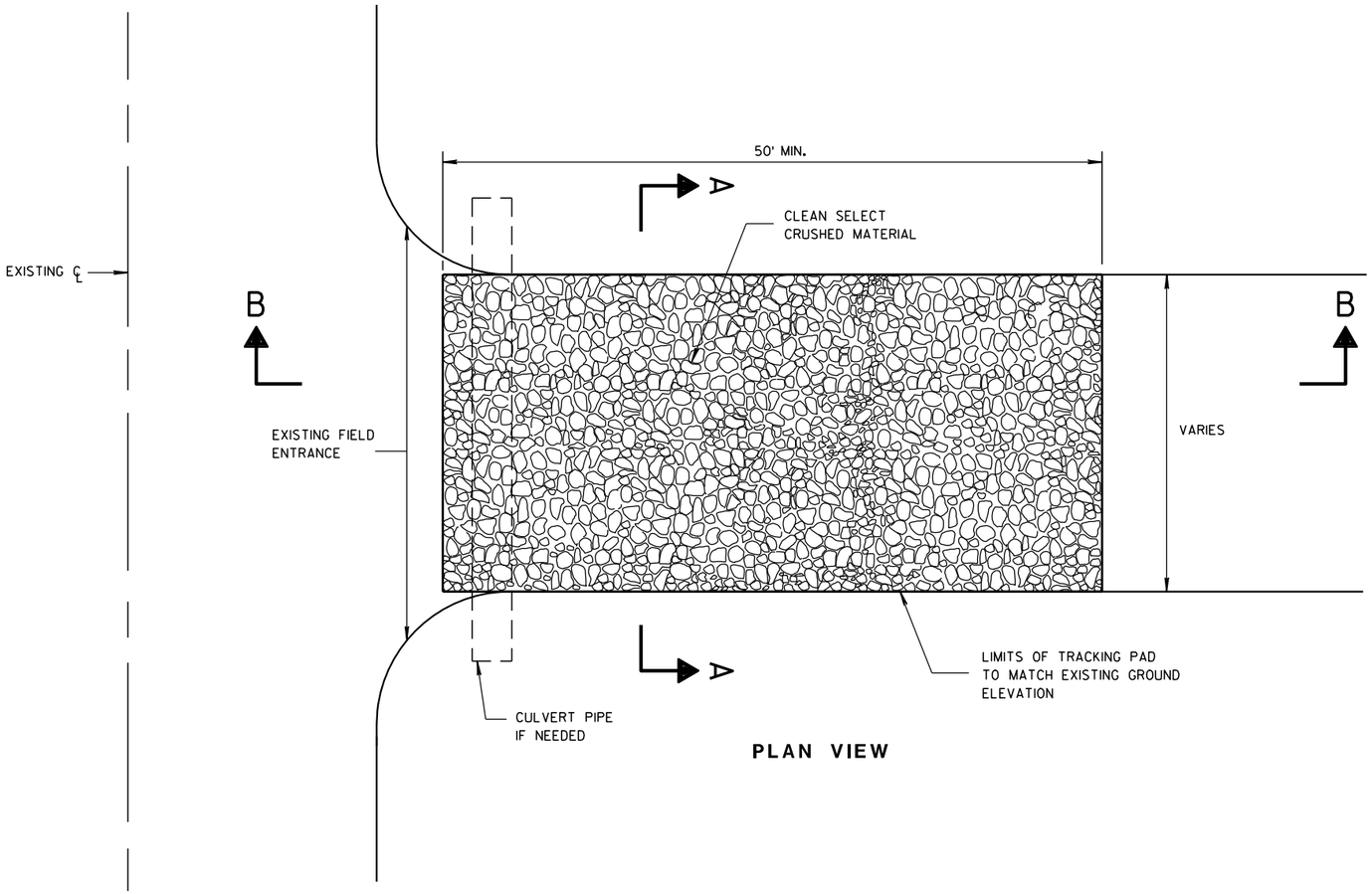
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

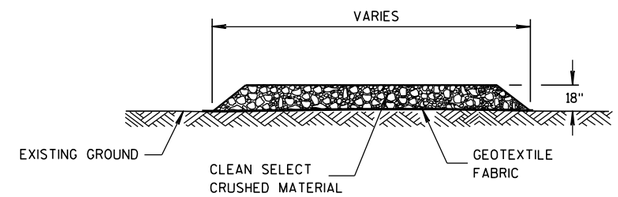
SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

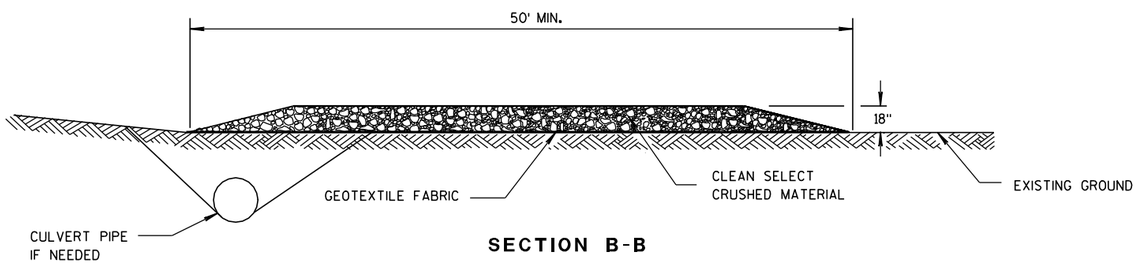
THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



PLAN VIEW



SECTION A-A

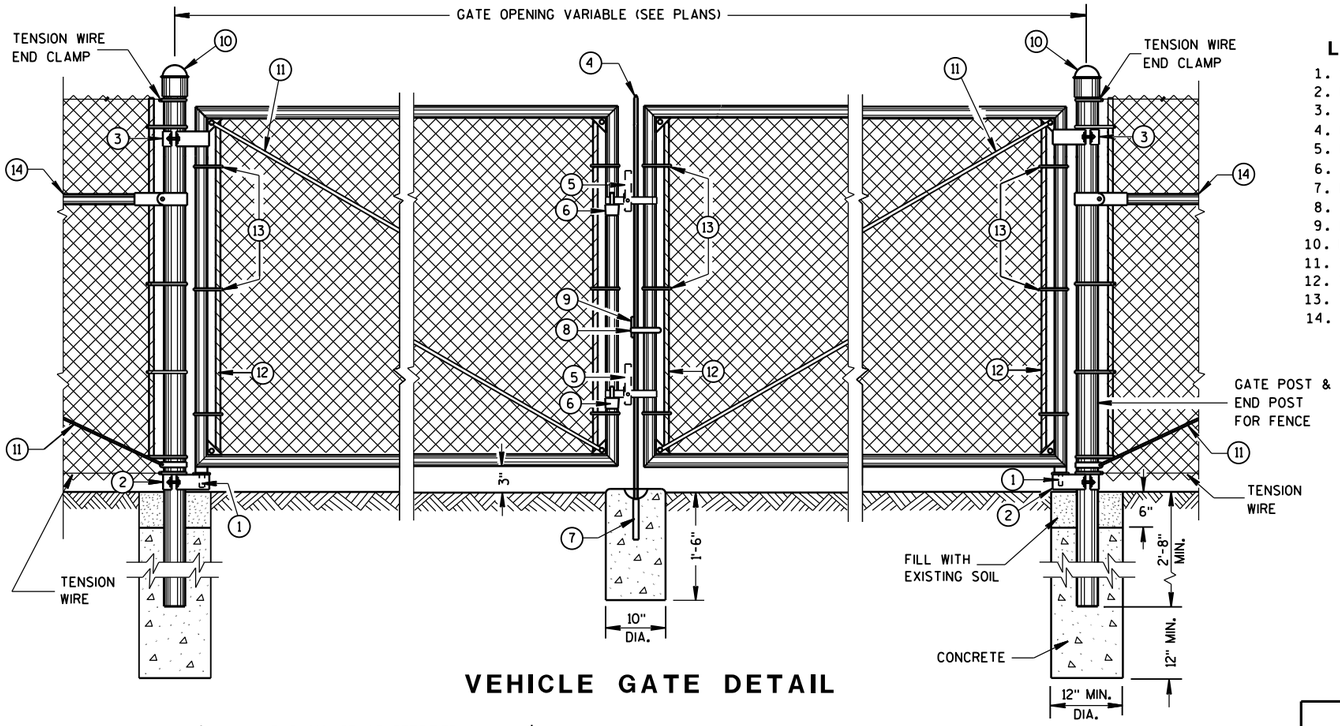


SECTION B-B

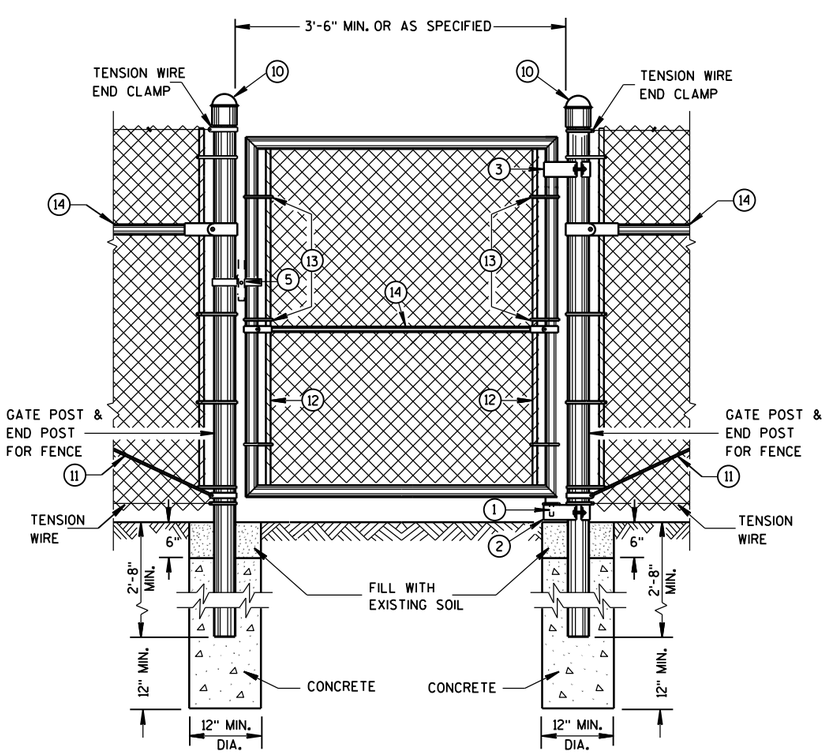
TRACKING PAD

TRACKING PAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3/24/2011 DATE FHWA	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

6
S.D.D. 8 E 14-1



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

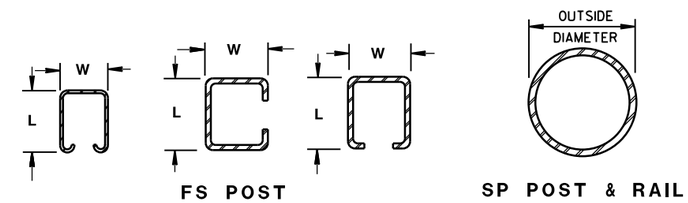
FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.



CROSS SECTIONS OF POSTS AND RAILS

SHAPE, SIZE AND WEIGHT REQUIREMENTS FOR FORMED STEEL FENCE POST

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

SHAPE, SIZE AND WEIGHT REQUIREMENTS FOR ROUND STEEL FENCE POST

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

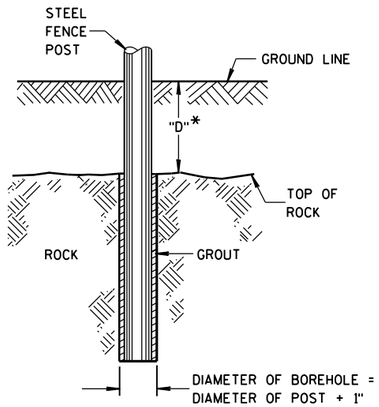
REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

FENCE CHAIN LINK

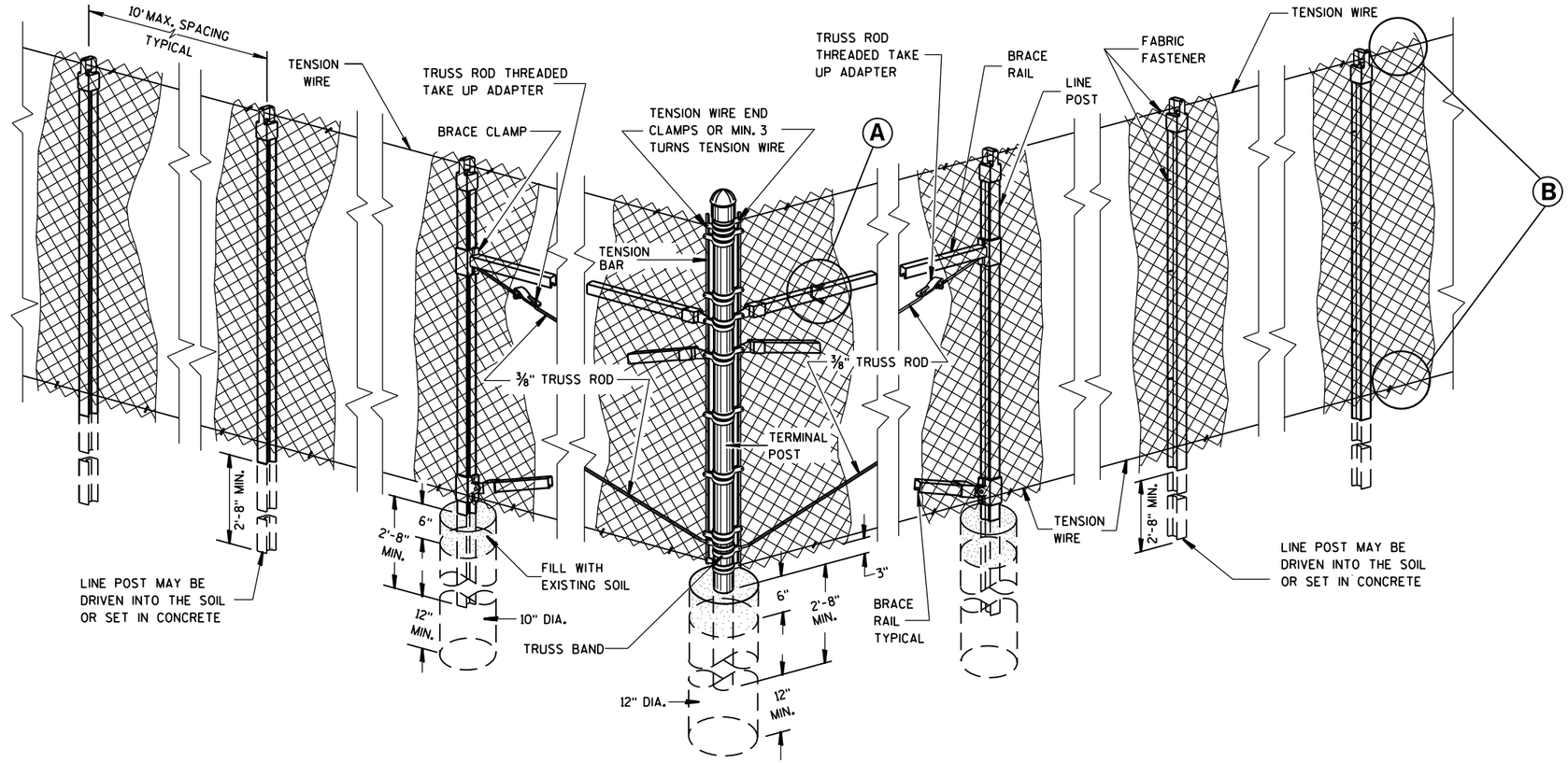
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 15 B 3-13a

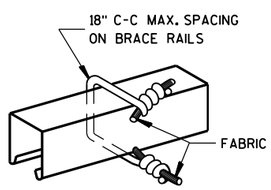


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST

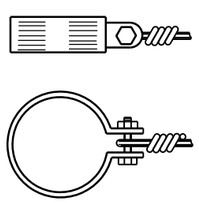


END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS

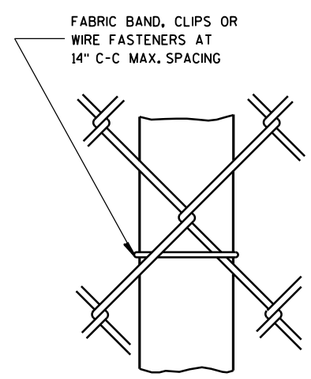


BRACE RAIL FABRIC FASTENER

(A)

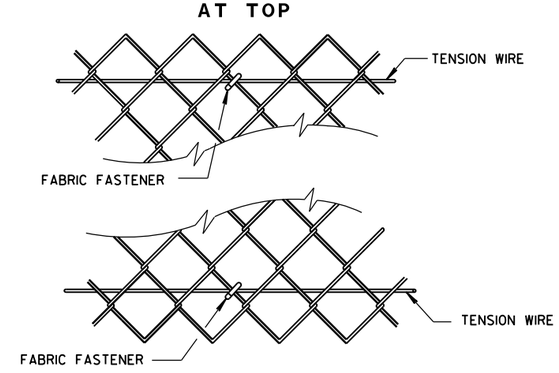


TENSION WIRE END CLAMP



LINE POST FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

(B)

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/16/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

6

S.D.D. 15 B 3-13b

EARTHWORK DATA

STATION	Real Station	Distance FT.	AREA (SF) Cut S.F.	AREA (SF) Top Soil S.F.	AREA (SF) Fill S.F.	Incremental Vol (CY) (Unadjusted) Cut C.Y.	Incremental Vol (CY) (Unadjusted) Strip Top Soil C.Y.	Incremental Vol (CY) (Unadjusted) Fill C.Y.	Cumulative Vol (CY) Cut 1.00 C.Y.	Cumulative Vol (CY) Expanded Fill 1.25 C.Y.	Mass Ordinate C.Y.
						0	0	0	0	0	0
10+30	1030	0	16	3	0	0	0	0	0	0	0
10+50	1050	20	14	4	0	11	3	0	11	0	8
10+74	1074	24	24	9	0	17	6	0	28	0	19
11+00	1100	26	1	30	3	12	19	1	40	2	11
11+21	1121	21	3	26	2	2	22	2	42	4	-12
11+50	1150	29	6	20	1	5	25	2	47	6	-34
12+00	1200	50	1	20	3	7	36	4	54	11	-68
12+50	1250	50	7	19	1	7	36	4	61	16	-101
13+00	1300	50	0	22	5	6	38	5	67	23	-139
13+50	1350	50	5	24	1	4	42	6	72	30	-185
14+00	1400	50	3	24	2	7	44	3	79	34	-226
14+50	1450	50	4	24	2	7	45	3	86	38	-268
15+00	1500	50	5	25	2	8	46	3	94	42	-309
15+50	1550	50	2	29	3	6	50	4	100	47	-358
16+00	1600	50	3	26	2	5	51	4	105	52	-409
16+50	1650	50	6	21	1	8	44	3	113	56	-448
17+00	1700	50	3	22	2	8	40	3	121	59	-483
17+50	1750	50	4	26	2	6	44	4	128	64	-525
18+00	1800	50	8	19	1	11	41	2	138	67	-559
18+50	1850	50	9	15	0	16	31	1	154	68	-575
19+00	1900	50	12	20	0	19	32	0	173	68	-589
19+50	1950	50	2	28	3	13	45	2	186	71	-624
20+00	2000	50	9	24	0	10	48	3	196	75	-665
20+50	2050	50	6	20	1	14	41	1	210	76	-693
20+92	2092	42	11	15	0	13	27	1	223	78	-708
21+00	2100	8	11	10	0	3	4	0	227	78	-709
21+37	2137	37	14	5	0	17	11	0	244	78	-702
21+50	2150	13	13	6	0	7	3	0	250	78	-698
21+83	2183	33	11	10	0	15	10	0	265	78	-694
22+00	2200	17	10	15	0	6	8	0	271	78	-695
22+50	2250	50	3	26	2	12	38	2	283	81	-724
23+00	2300	50	3	22	2	6	45	4	289	86	-768
23+50	2350	50	5	23	1	7	42	3	297	90	-806
24+00	2400	50	9	24	0	13	43	2	309	92	-839
24+50	2450	50	4	24	2	12	45	2	321	94	-875
25+00	2500	50	4	27	2	8	48	3	329	98	-918
25+50	2550	50	0	35	7	4	57	8	333	108	-982
26+00	2600	50	0	33	7	0	63	13	333	125	-1061

NOTES:
1. SEE MISC. QUANTITIES FOR EARTHWORK QUANTITIES FOR ABERT PLACE CONNECTION.

STATION	Real Station	Distance FT.	AREA (SF) Cut S.F.	AREA (SF) Top Soil S.F.	AREA (SF) Fill S.F.	Incremental Vol (CY) (Unadjusted) Cut C.Y.	Incremental Vol (CY) (Unadjusted) Strip Top Soil C.Y.	Incremental Vol (CY) (Unadjusted) Fill C.Y.	Cumulative Vol (CY) Cut 1.00 C.Y.	Cumulative Vol (CY) Expanded Fill 1.25 C.Y.	Mass Ordinate C.Y.
26+50	2650	50	1	31	3	1	60	9	334	136	-1132
27+00	2700	50	0	25	5	1	52	8	334	146	-1193
27+50	2750	50	5	24	1	4	45	6	339	154	-1242
28+50	2850	100	9	17	1	24	76	3	363	158	-1297
29+00	2900	50	8	16	1	15	31	1	378	160	-1314
29+33	2933	33	9	16	0	10	20	0	388	160	-1324
29+50	2950	17	8	15	1	5	10	0	394	161	-1329
30+00	3000	50	9	15	0	16	27	2	409	163	-1343
30+50	3050	50	12	16	0	19	29	1	428	164	-1354
31+00	3100	50	8	20	1	18	33	1	446	165	-1370
31+50	3150	50	3	28	4	10	45	4	456	170	-1410
32+00	3200	50	3	15	4	5	40	7	461	179	-1454
32+50	3250	50	8	6	2	10	19	5	472	185	-1469
33+00	3300	50	15	9	0	22	14	2	494	188	-1463
33+50	3350	50	11	15	1	24	22	1	518	189	-1463
34+00	3400	50	9	10	1	18	23	2	537	192	-1471
34+50	3450	50	1	5	5	9	14	6	546	199	-1483
35+00	3500	50	15	12	0	15	16	5	561	205	-1490
35+50	3550	50	13	20	1	26	30	1	587	206	-1494
36+00	3600	50	6	18	1	18	33	2	606	208	-1511
36+50	3650	50	6	16	1	12	30	2	618	211	-1532
37+00	3700	50	8	12	0	14	26	2	631	213	-1547
37+50	3750	50	9	8	0	16	19	1	647	214	-1550
38+00	3800	50	12	0	0	20	7	0	667	215	-1538
38+50	3850	50	14	0	0	24	0	0	691	215	-1514
38+87	3887	37	9	0	1	16	0	0	706	215	-1499
39+00	3900	13	13	0	0	5	0	0	712	215	-1494
39+50	3950	50	12	0	0	23	0	0	735	216	-1471
40+00	4000	50	7	0	2	17	0	2	752	218	-1457
40+50	4050	50	9	0	0	15	0	2	766	220	-1444
40+80	4080	30	5	13	1	8	7	1	774	222	-1445
41+50	4150	70	5	3	1	13	21	3	788	225	-1456
41+76	4176	26	5	3	1	5	3	1	792	227	-1456
42+05	4205	29	5	4	1	5	4	1	798	228	-1455
							0		798	228	-1455
							0				
						798	2025	182			

NOTES:
1. SEE MISC. QUANTITIES FOR EARTHWORK QUANTITIES FOR ABERT PLACE CONNECTION.

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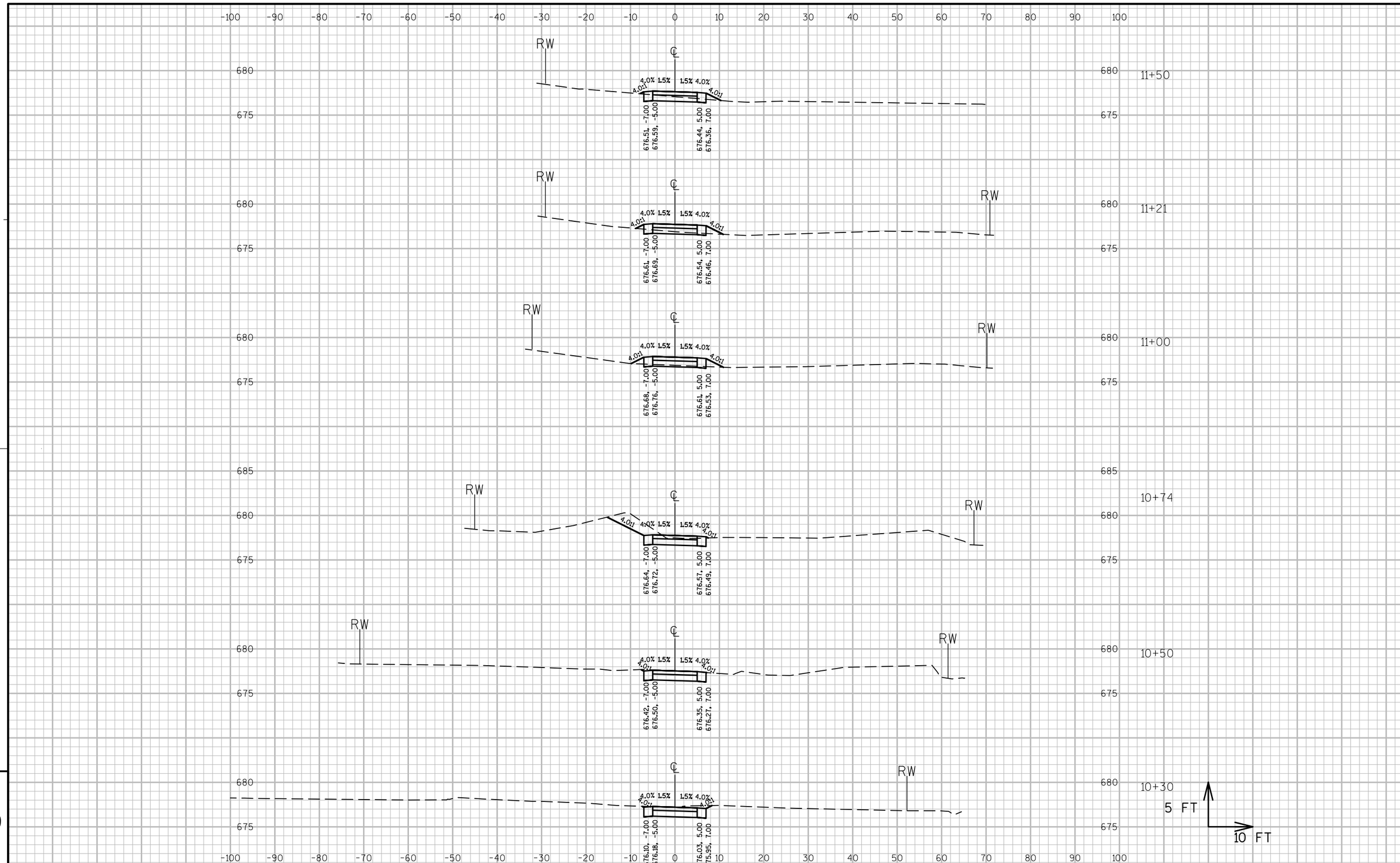

PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	CROSS SECTIONS:BEER LINE TRAIL	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090202_XS.DWG
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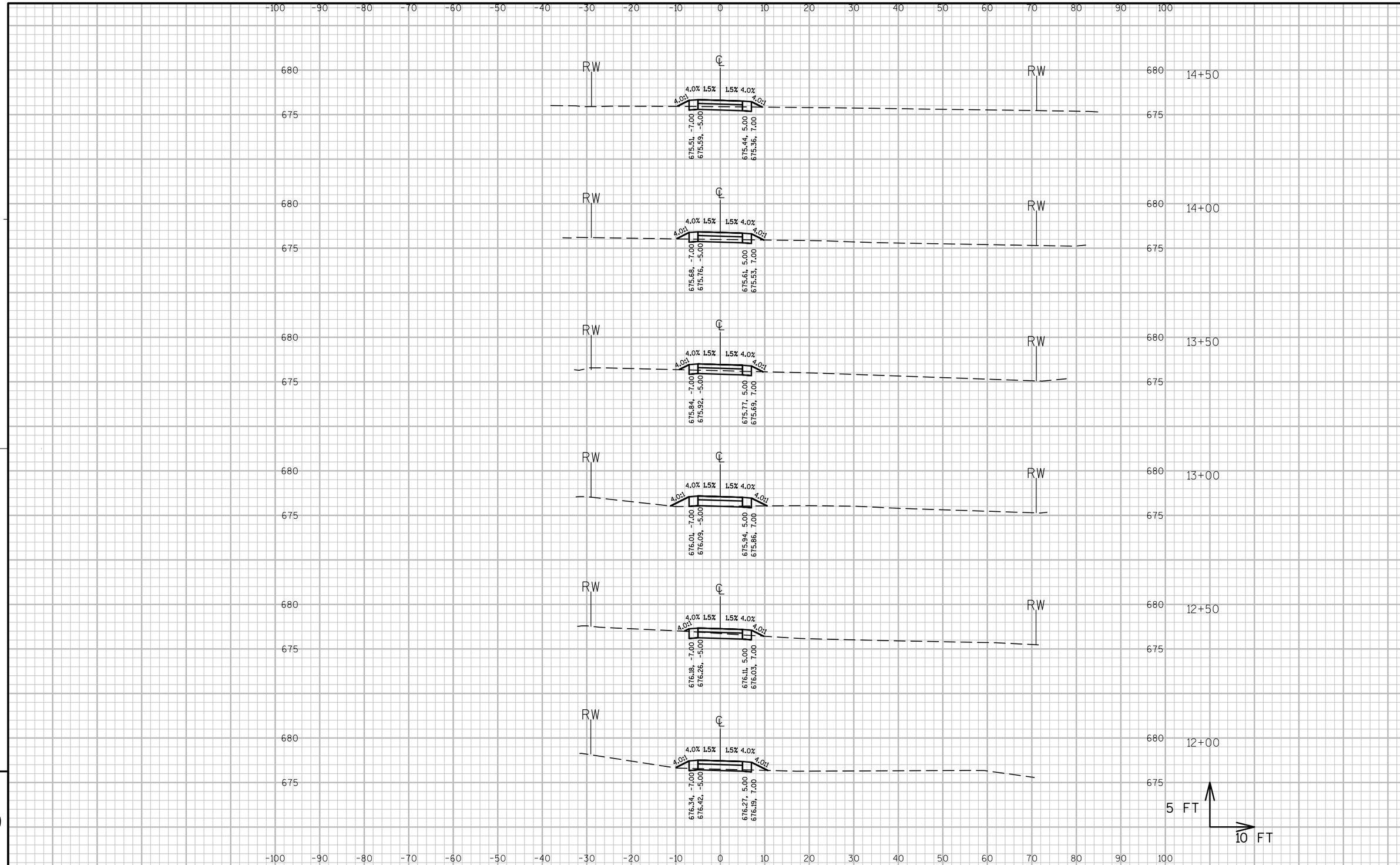
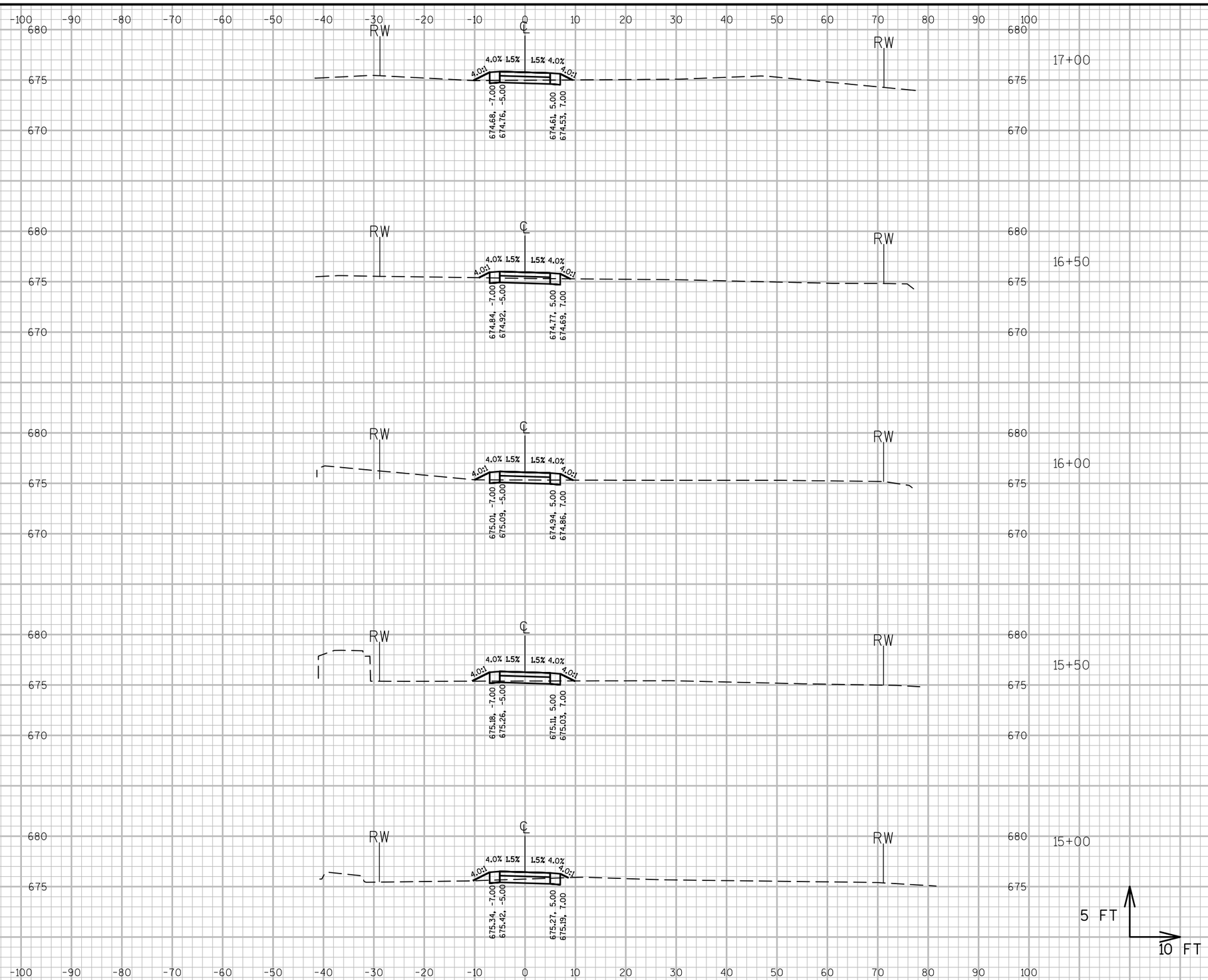
PLOT DATE : 9/9/2014 5:41 PM PLOT BY : AJAY SINGH PLOT NAME : PLOT SCALE : 1:20_XREF



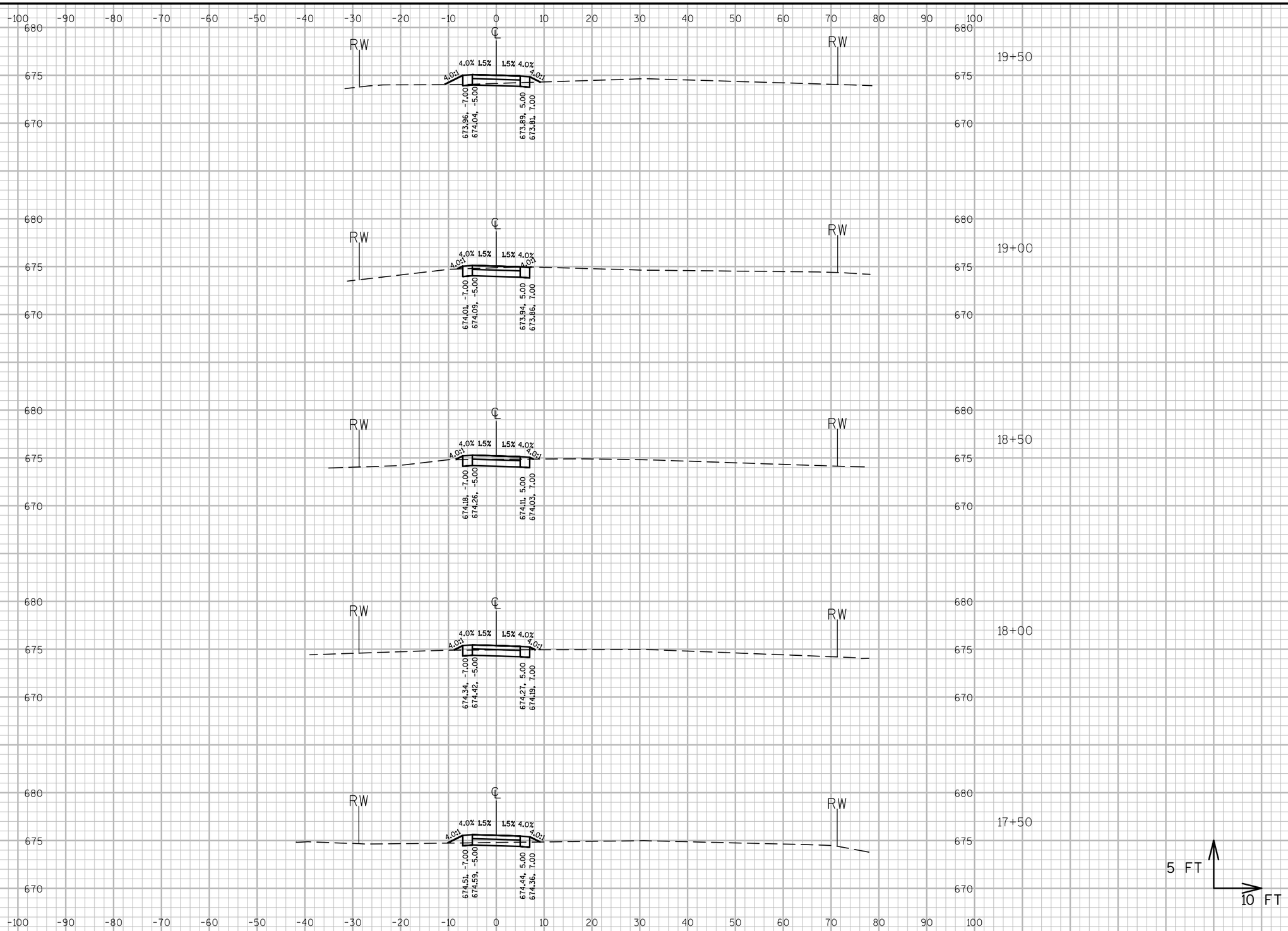
PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	CROSS SECTIONS:BEER LINE TRAIL	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090202_XS.DWG
NEW SHEET SET 1 - SECTION SHEET - (51)
PLOT DATE : 8/21/2014 6:46 PM PLOT BY : AJAY SINGH PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	CROSS SECTIONS:BEER LINE TRAIL	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090202_XS.DWG
NEW SHEET SET 1 - SECTION SHEET - (52)
PLOT DATE : 8/21/2014 6:46 PM PLOT BY : AJAY SINGH PLOT NAME : PLOT SCALE : 1:20_XREF



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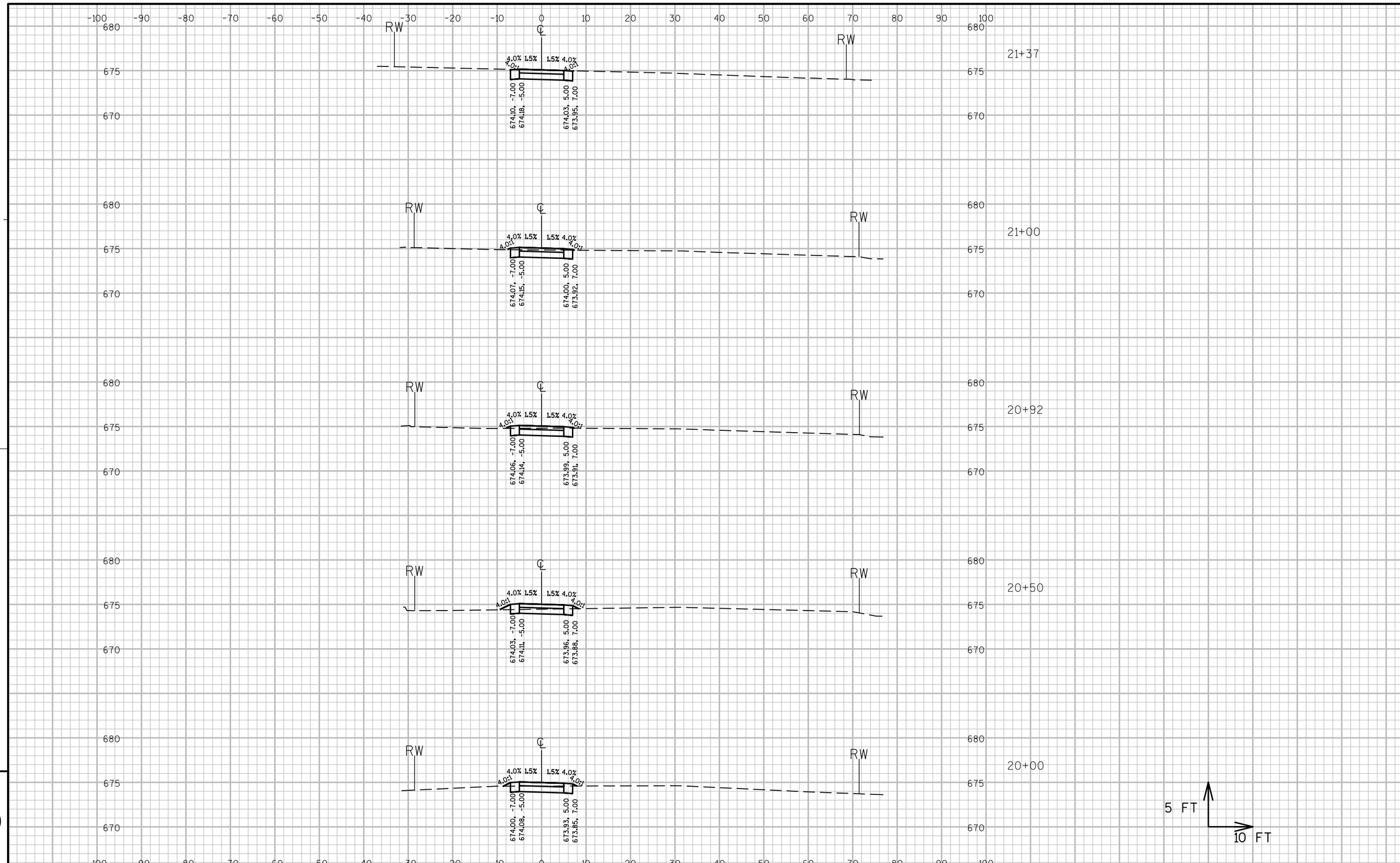
PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	CROSS SECTIONS:BEER LINE TRAIL	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090202_XS.DWG
NEW SHEET SET 1 - SECTION SHEET - (53)
PLOT DATE : 8/21/2014 6:46 PM PLOT BY : AJAY SINGH PLOT NAME : PLOT SCALE : 1:20_XREF



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PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	CROSS SECTIONS:BEER LINE TRAIL	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090202_XS.DWG
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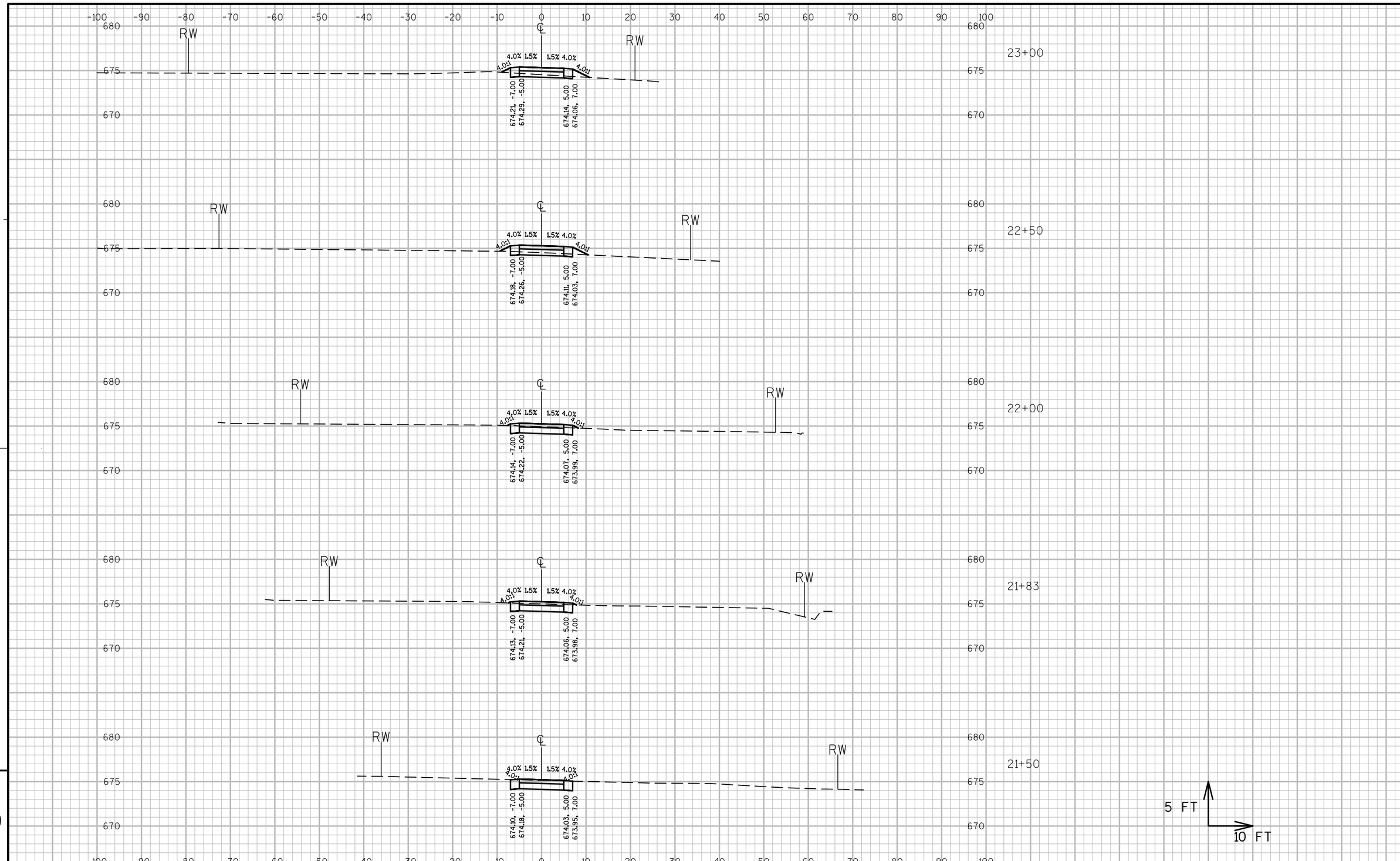
PLOT DATE : 8/21/2014 6:46 PM PLOT BY : AJAY SINGH PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	CROSS SECTIONS:BEER LINE TRAIL	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090202_XS.DWG
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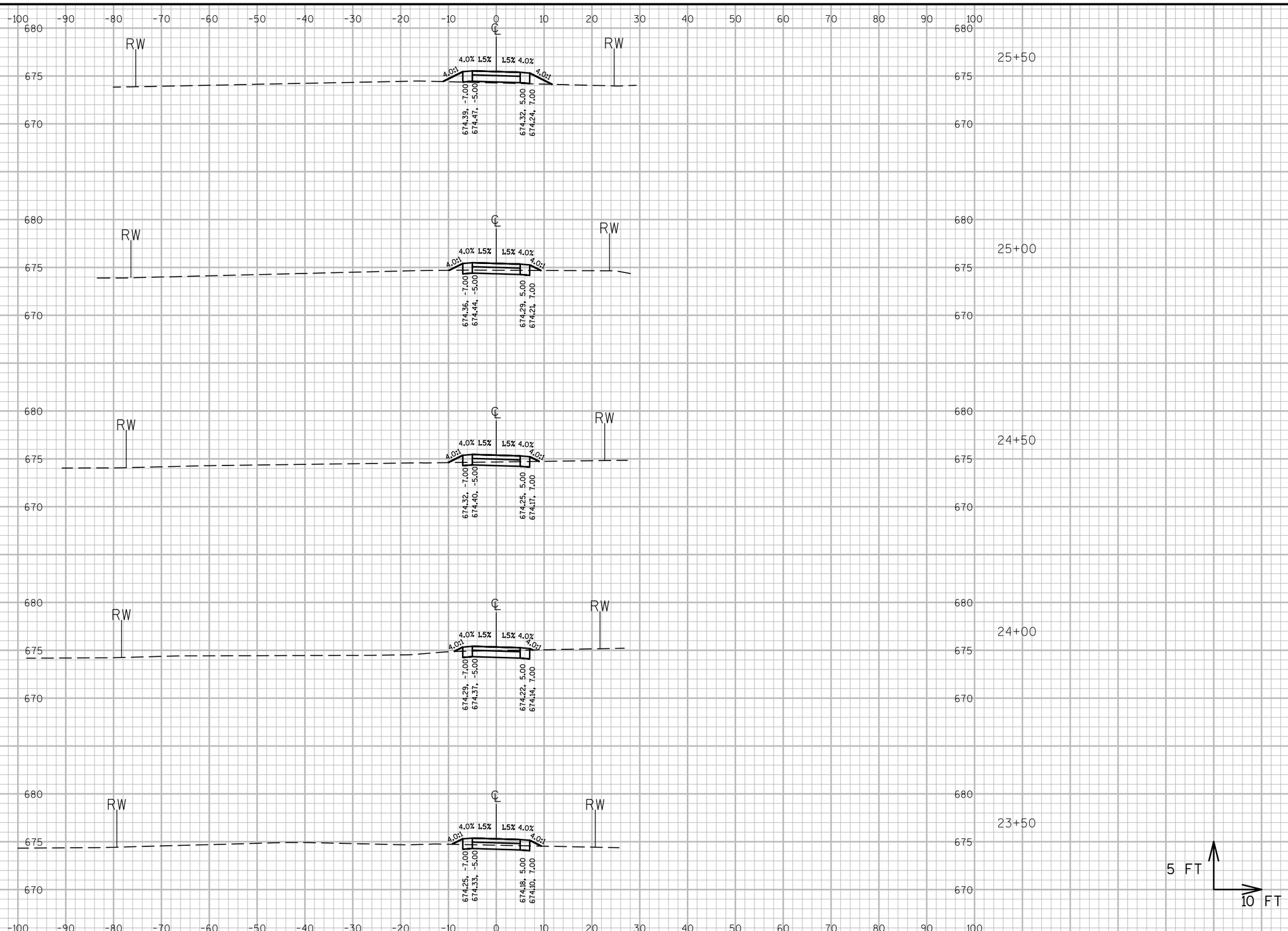
PLOT DATE : 8/21/2014 6:46 PM PLOT BY : AJAY SINGH PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	CROSS SECTIONS:BEER LINE TRAIL	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090202_XS.DWG
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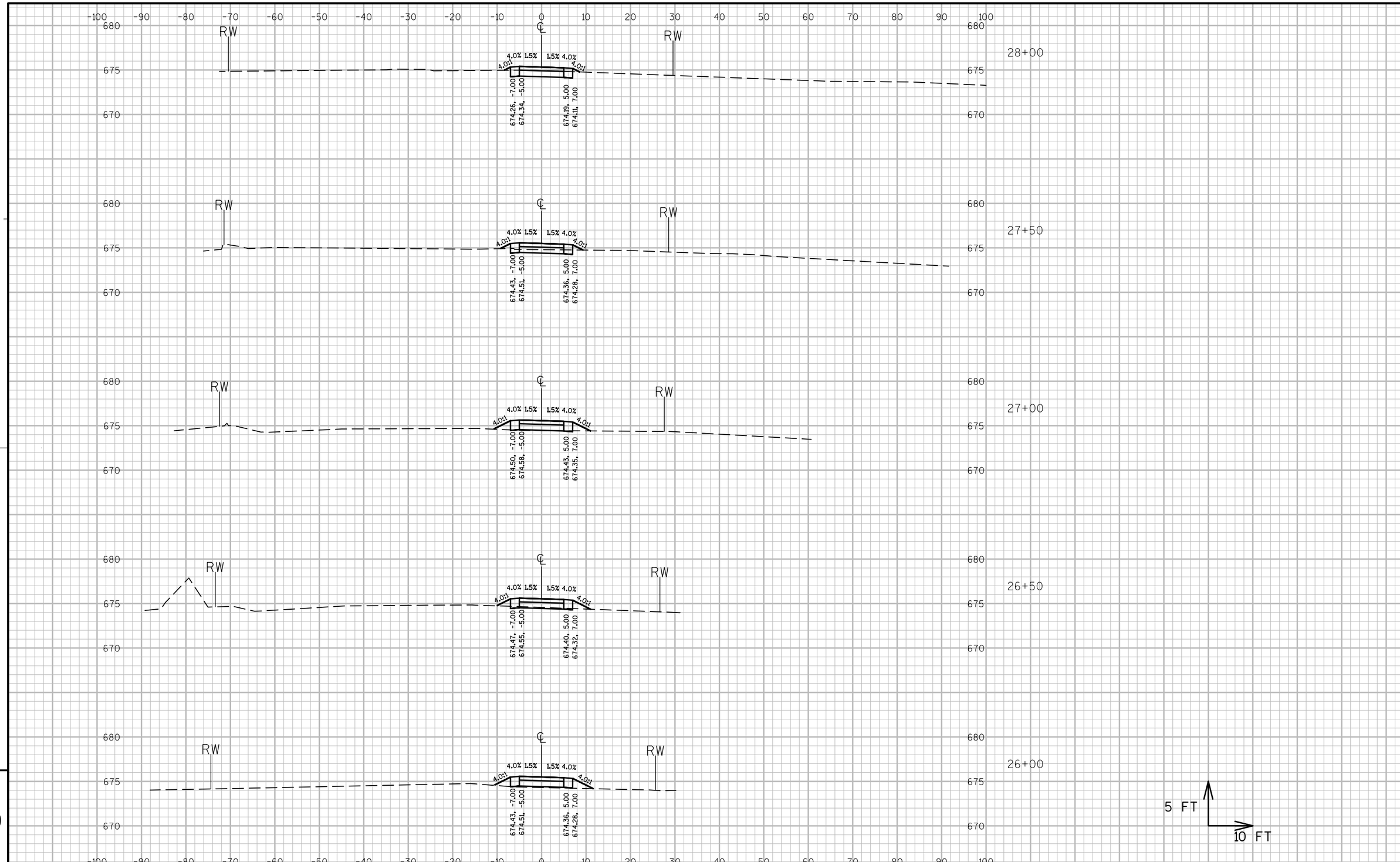
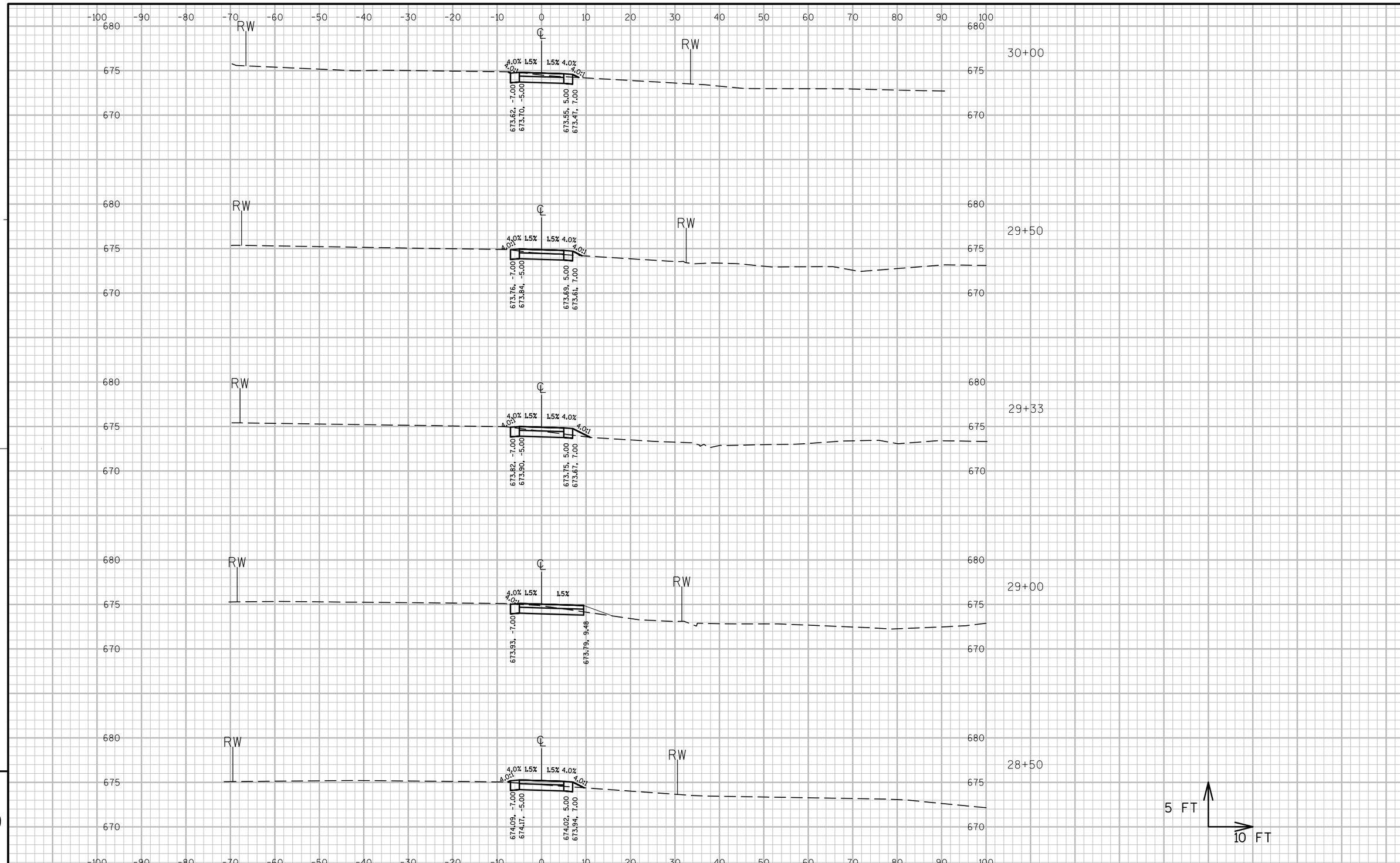
PLOT DATE : 8/21/2014 6:46 PM PLOT BY : AJAY SINGH PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	CROSS SECTIONS:BEER LINE TRAIL	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090202_XS.DWG
NEW SHEET SET 1 - SECTION SHEET - (57)
PLOT DATE : 8/21/2014 6:46 PM PLOT BY : AJAY SINGH PLOT NAME : PLOT SCALE : 1:20_XREF



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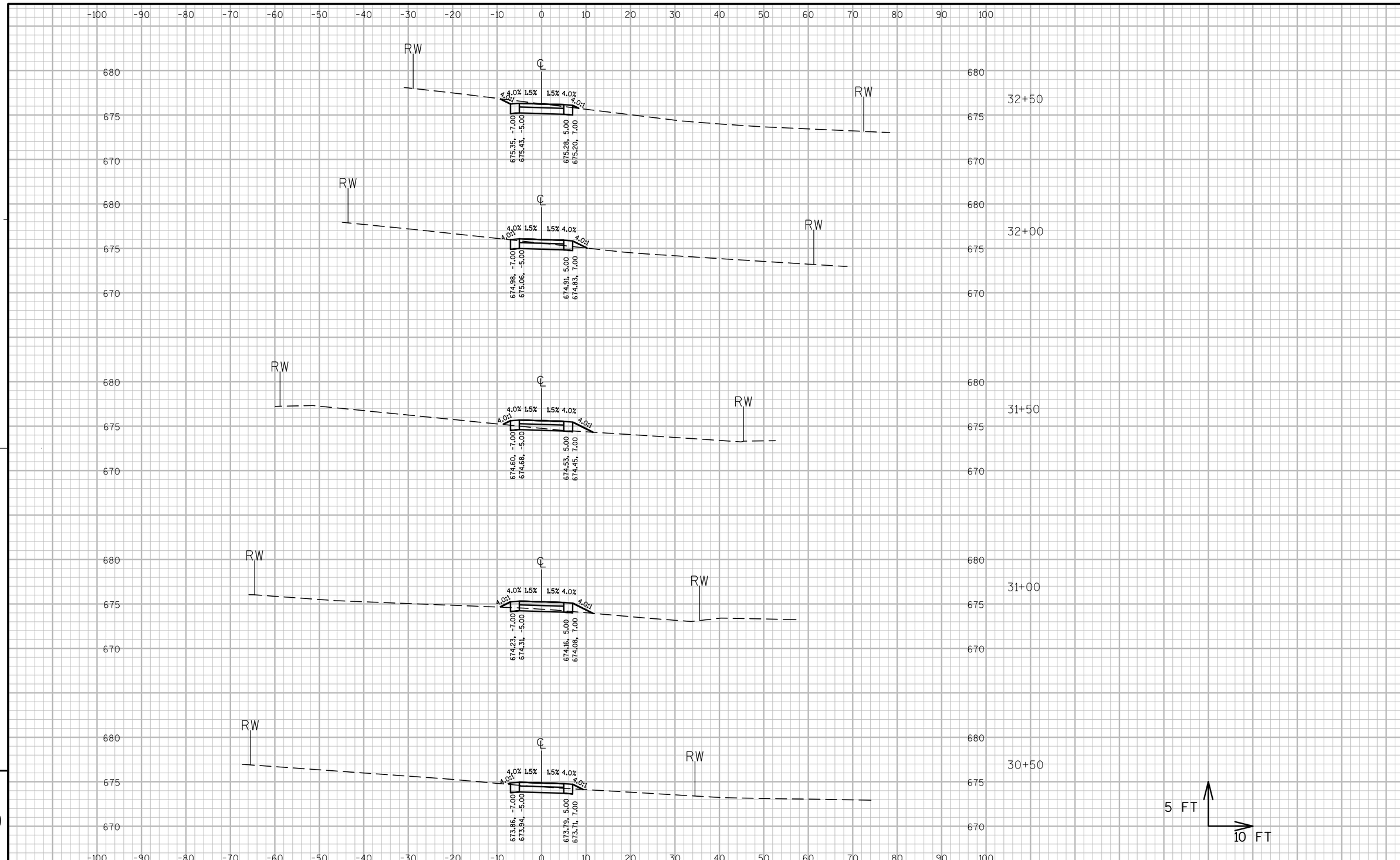
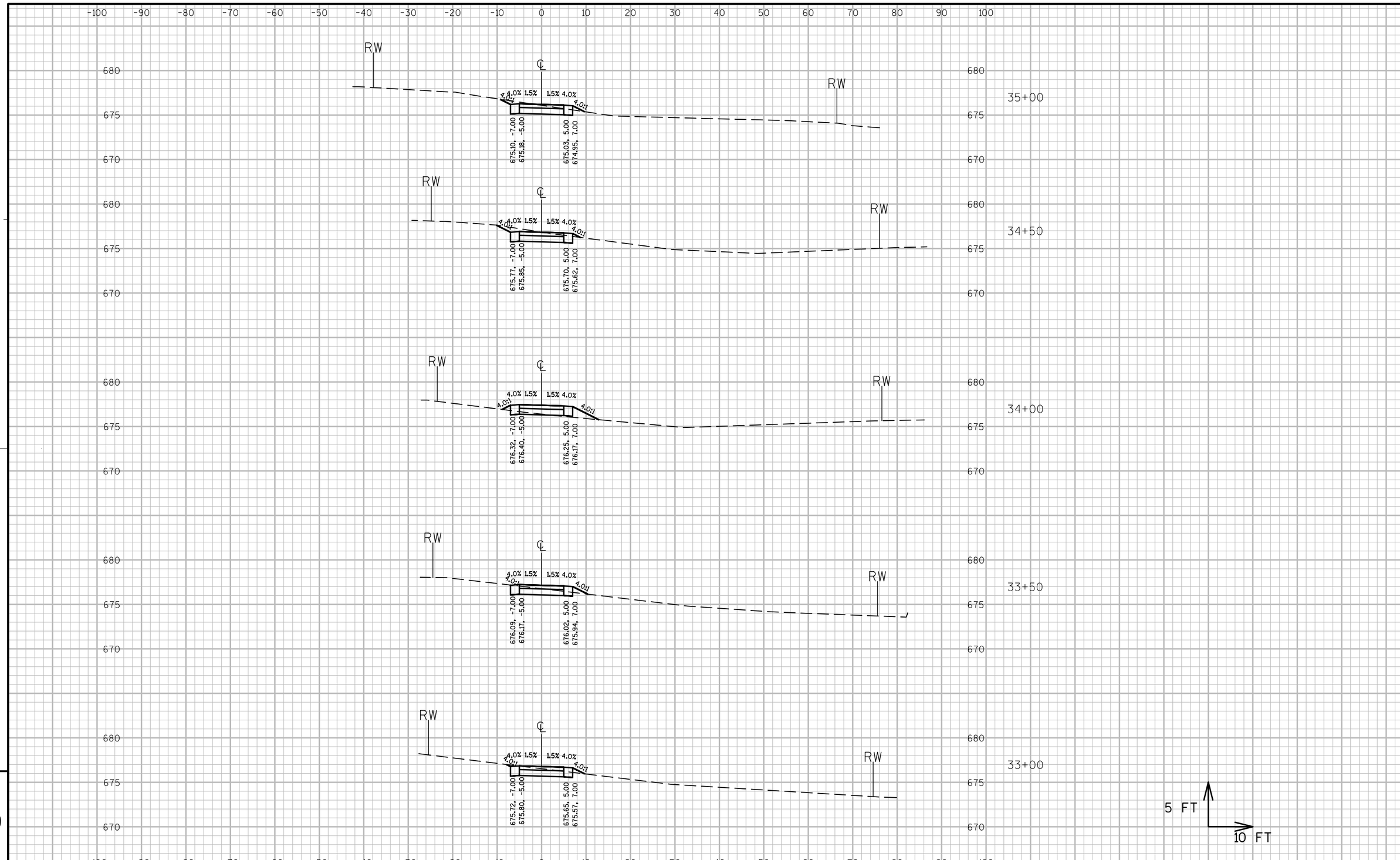
PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	CROSS SECTIONS:BEER LINE TRAIL	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090202_XS.DWG
NEW SHEET SET 1 - SECTION SHEET - (58)
PLOT DATE : 8/21/2014 6:46 PM PLOT BY : AJAY SINGH PLOT NAME : PLOT SCALE : 1:20_XREF



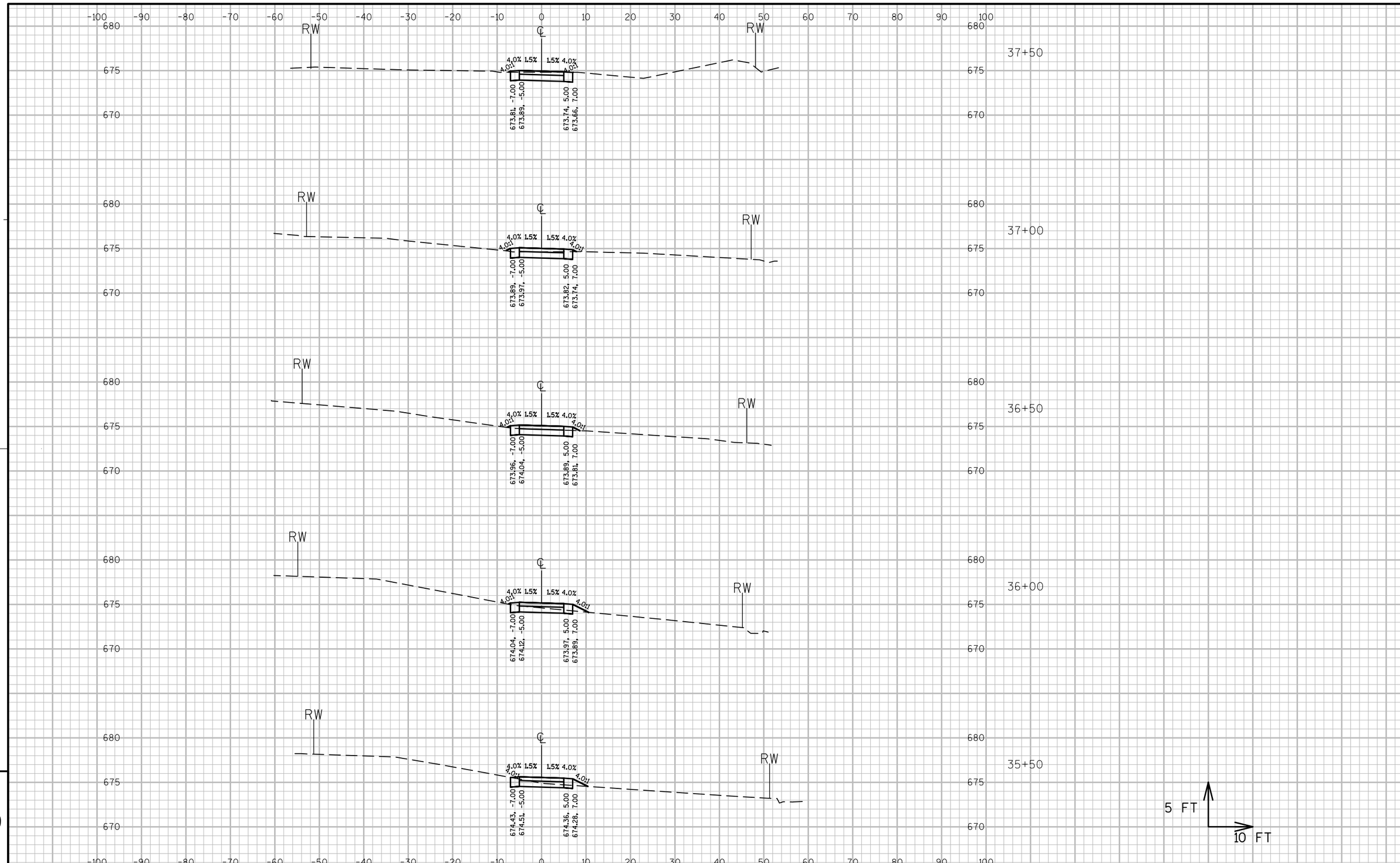
PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	CROSS SECTIONS:BEER LINE TRAIL	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090202_XS.DWG
NEW SHEET SET 1 - SECTION SHEET - (59)
PLOT DATE : 8/21/2014 6:46 PM PLOT BY : AJAY SINGH PLOT NAME : PLOT SCALE : 1:20_XREF



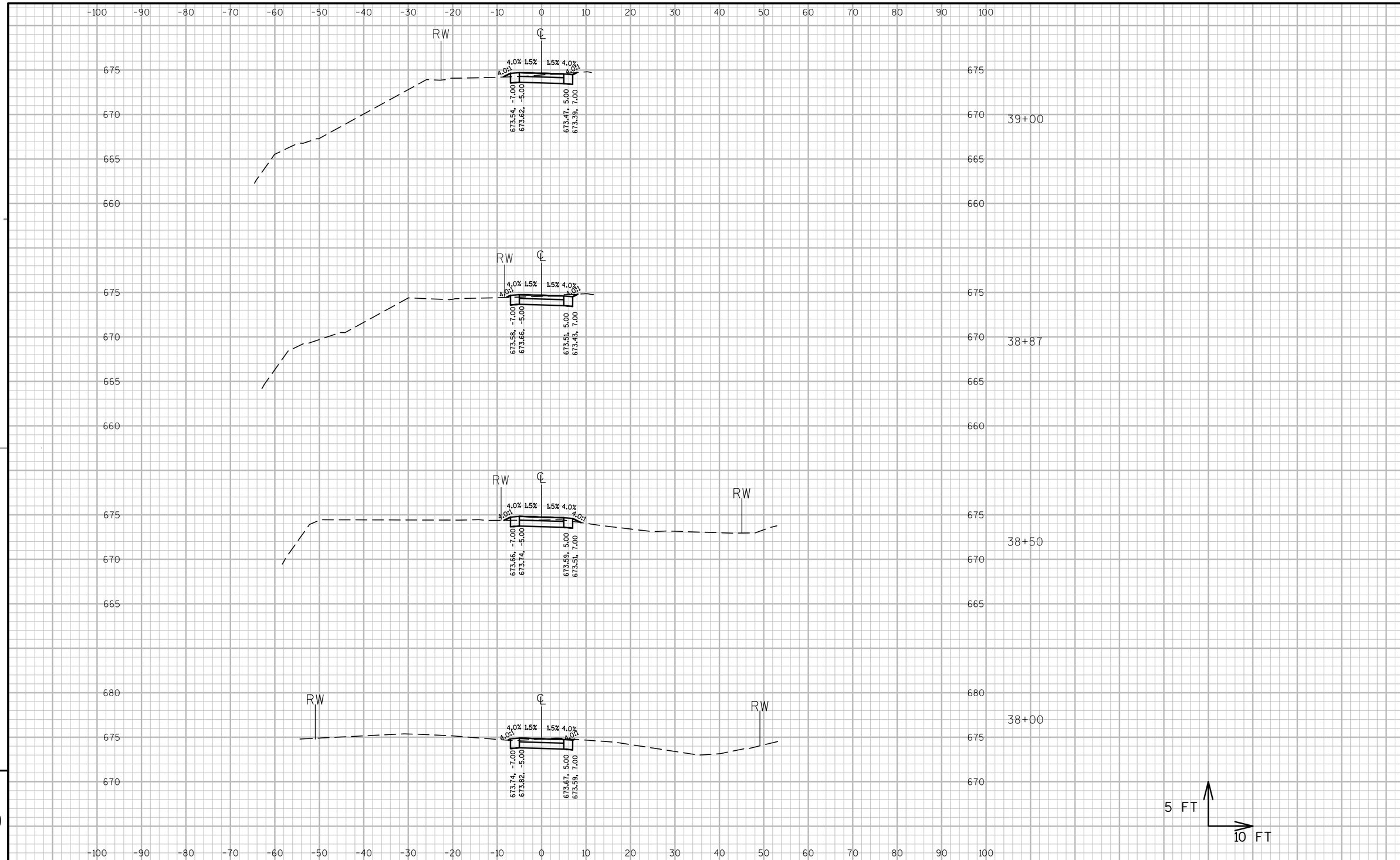
PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	CROSS SECTIONS:BEER LINE TRAIL	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090202_XS.DWG
NEW SHEET SET 1 - SECTION SHEET - (60)
PLOT DATE : 8/21/2014 6:46 PM PLOT BY : AJAY SINGH PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	CROSS SECTIONS:BEER LINE TRAIL	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090202_XS.DWG
NEW SHEET SET 1 - SECTION SHEET - (61)
PLOT DATE : 8/21/2014 6:46 PM PLOT BY : AJAY SINGH PLOT NAME : PLOT SCALE : 1:20_XREF



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PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	CROSS SECTIONS:BEER LINE TRAIL	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090202_XS.DWG
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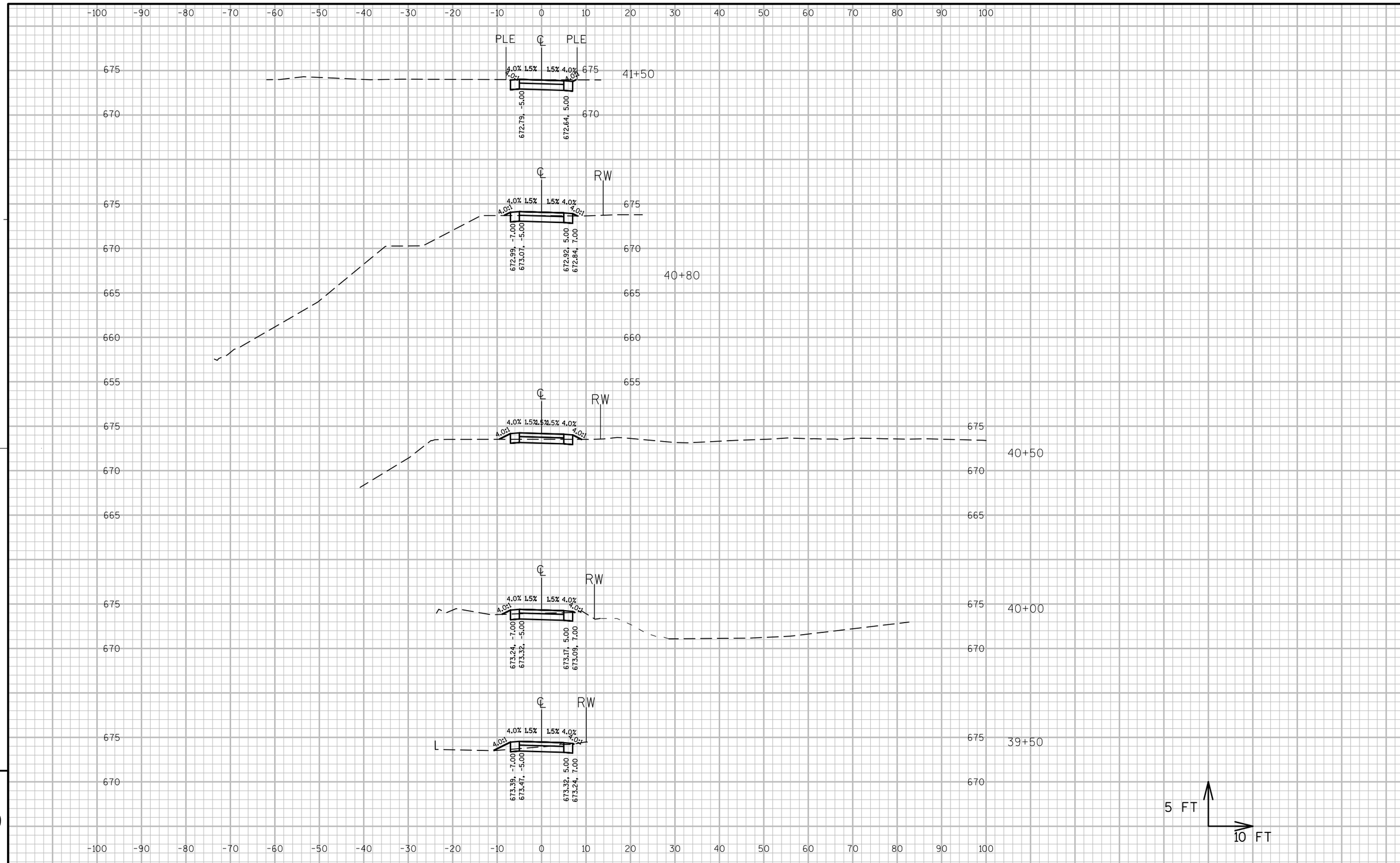
PLOT DATE : 8/21/2014 6:46 PM PLOT BY : AJAY SINGH PLOT NAME : PLOT SCALE : 1:20_XREF



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PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	CROSS SECTIONS:BEER LINE TRAIL	SHEET	E

FILE NAME : P:\8473 BEER LINE BIKE TRAIL\TRANSPORTATION\CADD\SHEETSPLAN\090202_XS.DWG
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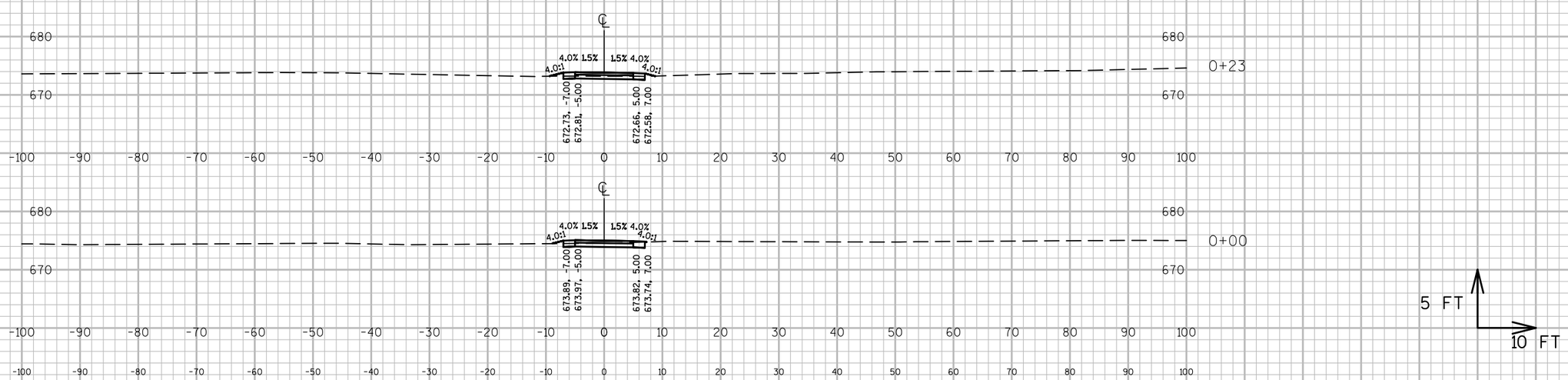
PLOT DATE : 8/21/2014 6:46 PM PLOT BY : AJAY SINGH PLOT NAME : PLOT SCALE : 1:20_XREF



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PROJECT NO:2984-34-71	HWY:BEER LINE BICYCLE TRAIL	COUNTY:MILWAUKEE	CROSS SECTIONS: W. ABERT PLACE	SHEET	E