



METROPOLITAN
C O U N C I L



SOUTHWEST
Green Line LRT Extension

CIVIL WEST CONSTRUCTION

VOLUME 2

CIVIL

60% SUBMISSION
DATE : 09/28/15

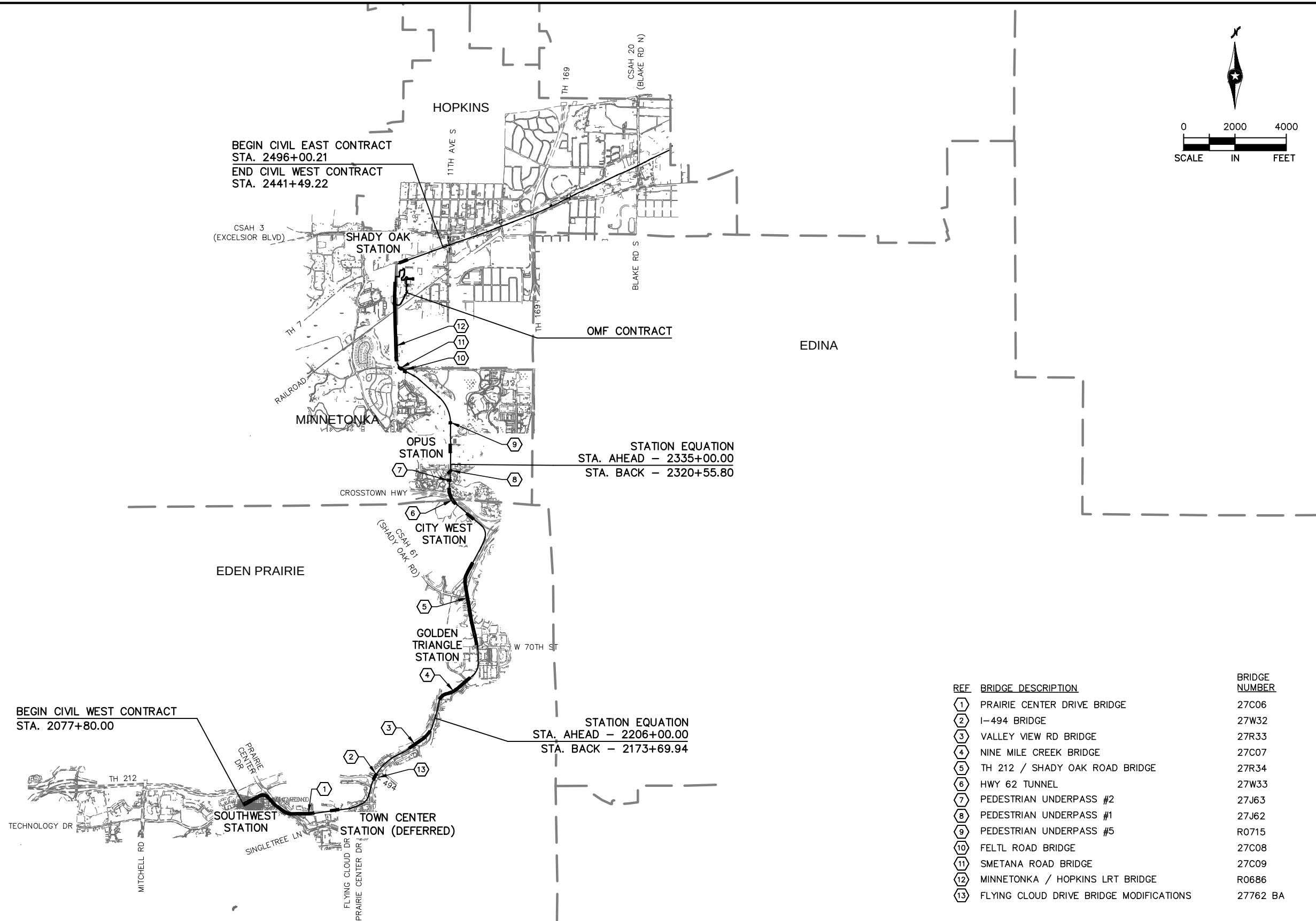
WARNING: THIS RECORD MAY CONTAIN SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW", AS DEFINED IN 49 CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

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CIVIL WEST						CIVIL WEST						CIVIL WEST											
SHT #	SHEET NAME		SHEET DESCRIPTION		STATION	STATION	REV	SHT #	SHEET NAME		SHEET DESCRIPTION		STATION	STATION	REV	SHT #	SHEET NAME		SHEET DESCRIPTION		STATION	STATION	REV
VOLUME 2 - CIVIL																							
1	W0-CIV-CVR-001		COVER SHEET					73	W1-CIV-PRF-021		FLYING CLOUD DRIVE PLAN AND PROFILE		515+00	520+00									
2	W0-CIV-IDX-001		VOLUME INDEX OF PLAN SHEETS					74	W1-CIV-PRF-022		FLYING CLOUD DRIVE PLAN AND PROFILE		520+00	526+50									
3	W0-GEN-KEY-001		GENERAL KEY MAP					75	W1-CIV-PRF-023		FLYING CLOUD DRIVE PLAN AND PROFILE		526+50	530+77									
4	W0-GEN-NTS-001		GENERAL LEGEND AND ABBREVIATIONS SHEET 1					76	W1-CIV-PRF-024		TECHNOLOGY DRIVE PLAN AND PROFILE		120+00	123+50									
5	W0-GEN-NTS-002		GENERAL LEGEND AND ABBREVIATIONS SHEET 2					77	W1-CIV-PRF-025		TECHNOLOGY DRIVE PLAN AND PROFILE		123+50	129+00									
6	W0-CIV-DTL-001		CIVIL DETAILS AND STANDARD PLANS SHEET 1					78	W1-CIV-PRF-026		TECHNOLOGY DRIVE PLAN AND PROFILE		129+00	131+36									
7	W0-CIV-DTL-002		CIVIL DETAILS AND STANDARD PLANS SHEET 2					79	W1-CIV-PRF-027		494 EXIT RAMP PLAN AND PROFILE		0+00	6+73									
8	W0-CIV-DTL-003		CIVIL DETAILS AND STANDARD PLANS SHEET 3					80	W1-CIV-PRF-028		VIKING DRIVE PLAN AND PROFILE		0+00	3+00									
9	W0-CIV-DTL-004		CIVIL DETAILS AND STANDARD PLANS SHEET 4					81	W1-CIV-PRF-029		212 ON RAMP PLAN AND PROFILE		0+00	6+50									
10	W0-CIV-DTL-005		CIVIL DETAILS AND STANDARD PLANS SHEET 5					82	W1-CIV-PRF-030		212 ON RAMP PLAN AND PROFILE		6+50	13+06									
11	W0-CIV-DTL-006		CIVIL DETAILS AND STANDARD PLANS SHEET 6					83	W2-CIV-PRF-001		212 ON RAMP PLAN AND PROFILE		453+15	458+50									
12	W0-CIV-DTL-007		CIVIL DETAILS AND STANDARD PLANS SHEET 7					84	W2-CIV-PRF-002		212 ON RAMP PLAN AND PROFILE		458+50	465+50									
13	W0-CIV-DTL-008		CIVIL DETAILS AND STANDARD PLANS SHEET 8					85	W2-CIV-PRF-003		70TH STREET WEST PLAN AND PROFILE		300+50	307+00									
14	W0-CIV-DTL-009		CIVIL DETAILS AND STANDARD PLANS SHEET 9					86	W2-CIV-PRF-004		ACCESS ROAD PLAN AND PROFILE		50+00	55+60									
15	W0-CIV-DTL-010		CIVIL DETAILS AND STANDARD PLANS SHEET 10					87	W2-CIV-PRF-005		SHADY OAK ROAD PLAN AND PROFILE		800+00	807+00									
16	W0-CIV-DTL-011		CIVIL DETAILS AND STANDARD PLANS SHEET 11					88	W2-CIV-PRF-006		WEST 62ND STREET PLAN AND PROFILE		116+00	122+50									
17	W0-CIV-DTL-012		CIVIL DETAILS AND STANDARD PLANS SHEET 12					89	W2-CIV-PRF-007		WEST 62ND STREET PLAN AND PROFILE		122+50	127+02									
18	W0-CIV-DTL-013		CIVIL DETAILS AND STANDARD PLANS SHEET 13					90	W2-CIV-PRF-008		RED CIRCLE DRIVE TO YELLOW CIRCLE DRIVE PLAN AND PROFILE		200+00	204+50									
19	W1-CIV-LAY-001		CIVIL PLAN SHEET LAYOUT SHEET 1					91	W2-CIV-PRF-009		RED CIRCLE DRIVE TO YELLOW CIRCLE DRIVE PLAN AND PROFILE		204+50	208+17									
20	W2-CIV-LAY-001		CIVIL PLAN SHEET LAYOUT SHEET 2					92	W2-CIV-PRF-010		RED CIRCLE DRIVE PLAN AND PROFILE		202+94	208+50									
21	W3-CIV-LAY-001		CIVIL PLAN SHEET LAYOUT SHEET 3					93	W2-CIV-PRF-011		RED CIRCLE DRIVE PLAN AND PROFILE		208+50	213+01									
22	W1-CIV-ALG-001		ROADWAY ALIGNMENT PLANS SHEET 1					94	W2-CIV-PRF-012		YELLOW CIRCLE DRIVE PLAN AND PROFILE		280+00	287+10									
23	W1-CIV-ALG-002		ROADWAY ALIGNMENT PLANS SHEET 2					95	W2-CIV-PRF-013		YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE PLAN AND PROFILE		221+00	227+50									
24	W1-CIV-ALG-003		ROADWAY ALIGNMENT PLANS SHEET 3																				
25	W1-CIV-ALG-004		ROADWAY ALIGNMENT PLANS SHEET 4					96	W2-CIV-PRF-014		YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE PLAN AND PROFILE		227+50	233+00									
26	W1-CIV-ALG-005		ROADWAY ALIGNMENT PLANS SHEET 5																				
27	W2-CIV-ALG-001		ROADWAY ALIGNMENT PLANS SHEET 6					97	W2-CIV-PRF-015		BREN ROAD EAST PLAN AND PROFILE		1012+50	1021+00									
28	W2-CIV-ALG-002		ROADWAY ALIGNMENT PLANS SHEET 7					98	W2-CIV-PRF-016		BREN ROAD EAST TO RED CIRCLE DRIVE PLAN AND PROFILE		270+00	272+48									
29	W2-CIV-ALG-003		ROADWAY ALIGNMENT PLANS SHEET 8																				
30	W2-CIV-ALG-004		ROADWAY ALIGNMENT PLANS SHEET 9					99	W3-CIV-PRF-001		BREN ROAD EAST PLAN AND PROFILE		998+00	1003+00									
31	W3-CIV-ALG-001		ROADWAY ALIGNMENT PLANS SHEET 10					100	W3-CIV-PRF-002		BREN ROAD EAST PLAN AND PROFILE		1003+00	1009+00									
32	W3-CIV-ALG-002		ROADWAY ALIGNMENT PLANS SHEET 11					101	W3-CIV-PRF-003		BREN ROAD WEST PLAN AND PROFILE		49+00	55+00									
33	W3-CIV-ALG-003		ROADWAY ALIGNMENT PLANS SHEET 12					102	W3-CIV-PRF-004		BREN ROAD WEST PLAN AND PROFILE		55+00	58+49									
34	W1-CIV-TYP-001		ROADWAY TYPICAL SECTIONS SHEET 1					103	W3-CIV-PRF-005		FELTL ROAD PLAN AND PROFILE		21+00	26+00									
35	W1-CIV-TYP-002		ROADWAY TYPICAL SECTIONS SHEET 2					104	W3-CIV-PRF-006		SMETANA ROAD PLAN AND PROFILE		52+50	59+50									
36	W1-CIV-TYP-003		ROADWAY TYPICAL SECTIONS SHEET 3					105	W3-CIV-PRF-007		SMETANA ROAD PLAN AND PROFILE		59+50	66+50									
37	W1-CIV-TYP-004		ROADWAY TYPICAL SECTIONS SHEET 4					106	W3-CIV-PRF-008		K-TEL DRIVE PLAN AND PROFILE		4+00	8+76									
38	W1-CIV-TYP-005		ROADWAY TYPICAL SECTIONS SHEET 5					107	W3-CIV-PRF-009		5TH STREET SOUTH PLAN AND PROFILE		0+00	5+50									
39	W1-CIV-TYP-006		ROADWAY TYPICAL SECTIONS SHEET 6					108	W3-CIV-PRF-010		17TH AVENUE SOUTH PLAN AND PROFILE		8+00	15+00									
40	W1-CIV-TYP-007		ROADWAY TYPICAL SECTIONS SHEET 7					109	W3-CIV-PRF-011		17TH AVENUE SOUTH PLAN AND PROFILE		15+00	18+78									
41	W1-CIV-TYP-008		ROADWAY TYPICAL SECTIONS SHEET 8					110	W3-CIV-PRF-012		EXCELSIOR BOULEVARD PLAN AND PROFILE		301+50	308+50									
42	W2-CIV-TYP-001		ROADWAY TYPICAL SECTIONS SHEET 9					111	W2-CIV-ALG-005		TRAIL ALIGNMENT PLANS SHEET 1												
43	W2-CIV-TYP-002		ROADWAY TYPICAL SECTIONS SHEET 10					112	W3-CIV-ALG-004		TRAIL ALIGNMENT PLANS SHEET 2												
44	W2-CIV-TYP-003		ROADWAY TYPICAL SECTIONS SHEET 11					113	W3-CIV-ALG-005		TRAIL ALIGNMENT PLANS SHEET 3												
45	W2-CIV-TYP-004		ROADWAY TYPICAL SECTIONS SHEET 12					114	W3-CIV-ALG-006		TRAIL ALIGNMENT PLANS SHEET 4												
46	W2-CIV-TYP-005		ROADWAY TYPICAL SECTIONS SHEET 13					115	W3-CIV-ALG-007		TRAIL ALIGNMENT PLANS SHEET 5												
47	W3-CIV-TYP-001		ROADWAY TYPICAL SECTIONS SHEET 14					116	W2-CIV-TYP-006		TRAIL TYPICAL SECTIONS SHEET 1												
48	W3-CIV-TYP-002		ROADWAY TYPICAL SECTIONS SHEET 15					117	W3-CIV-TYP-007		TRAIL TYPICAL SECTIONS SHEET 2												
49	W3-CIV-TYP-003		ROADWAY TYPICAL SECTIONS SHEET 16					118	W3-CIV-TYP-008		TRAIL TYPICAL SECTIONS SHEET 3												
50	W3-CIV-TYP-004		ROADWAY TYPICAL SECTIONS SHEET 17					119	W2-CIV-TRL-001		TRAIL 1 PLAN AND PROFILE		59+50	66+50									
51	W3-CIV-TYP-005		ROADWAY TYPICAL SECTIONS SHEET 18					120	W2-CIV-TRL-002		TRAIL 2 PLAN AND PROFILE		79+65	85+50									
52	W3-CIV-TYP-006		ROADWAY TYPICAL SECTIONS SHEET 19					121	W3-CIV-TRL-001		TRAIL 2 PLAN AND PROFILE		89+00	95+50									
53	W1-CIV-PRF-001		TECHNOLOGY DRIVE PLAN AND PROFILE		235+00	240+50		122	W3-CIV-TRL-002		TRAIL 2 PLAN AND PROFILE		95+50	103+50									
54	W1-CIV-PRF-002		TECHNOLOGY DRIVE PLAN AND PROFILE		240+50	246+00		123	W3-CIV-TRL-003		TRAIL 3 PLAN AND PROFILE		0+00	1+72									
55	W1-CIV-PRF-003		TECHNOLOGY DRIVE PLAN AND PROFILE		246+00	250+50		124	W3-CIV-TRL-004		TRAIL 4 PLAN AND PROFILE		31+00	36+22									
56	W1-CIV-PRF-004		TECHNOLOGY DRIVE PLAN AND PROFILE		250+50	254+06		125	W3-CIV-TRL-005		TRAIL 5 PLAN AND PROFILE		0+00	4+50									
57	W1-CIV-PRF-005		BUS RAMP PLAN AND PROFILE		10+00	12+47		126	W3-CIV-TRL-006		TRAIL 5 PLAN AND PROFILE		4+50	8+50									
58	W1-CIV-PRF-006		BUS CONNECTION PLAN AND PROFILE		20+00	24+25		127	W3-CIV-TRL-007		TRAIL 5 PLAN AND PROFILE		8+50	13+19									
59	W1-CIV-PRF-007		TECHNOLOGY DRIVE PLAN AND PROFILE		500+00	505+50		128	W3-CIV-TRL-008		TRAIL 6 PLAN AND PROFILE		25+00	32+50									
60	W1-CIV-PRF-008		PRAIRIE CENTER DRIVE PLAN AND PROFILE		303+50	309+50		129	W3-CIV-TRL-009		TRAIL 6 PLAN AND PROFILE		35+50	42+00									
61	W1-CIV-PRF-009		PRAIRIE CENTER DRIVE PLAN AND PROFILE		309+50	315+00		130	W3-CIV-TRL-010		CEDAR LAKE LRT REGIONAL TRAIL PLAN AND PROFILE		0+00	7+00									
62	W1-CIV-PRF-010		PRAIRIE CENTER DRIVE PLAN AND PROFILE		315+00	320+50		131	W3-CIV-TRL-011		CEDAR LAKE LRT REGIONAL TRAIL PLAN AND PROFILE		7+00	13+50									
63	W1-CIV-PRF-011		PRAIRIE CENTER DRIVE PLAN AND PROFILE		320+50	326+50		132	W3-CIV-TRL-012		CEDAR LAKE LRT REGIONAL TRAIL PLAN AND PROFILE		13+50	20+25									
64	W1-CIV-PRF-012		PRAIRIE CENTER DRIVE PLAN AND PROFILE		326+50	332+50		133	W1-CIV-PLN-001		SOUTHWEST STATION PARK AND RIDE SITE PLAN												
65	W1-CIV-PRF-013		PRAIRIE CENTER DRIVE PLAN AND PROFILE		332+50	339+50		134	W2-CIV-PLN-001		GOLDEN TRIANGLE PARK AND RIDE SITE PLAN SHEET 1												
66	W1-CIV-PRF-014		EDEN ROAD PLAN AND PROFILE		100+00	106+00		135	W2-CIV-PLN-002		GOLDEN TRIANGLE PARK AND RIDE SITE PLAN SHEET 2												
67	W1-CIV-PRF-015		EDEN ROAD PLAN AND PROFILE		106+00	110+94		136	W2-CIV-PLN-003		VALLEY VIEW ROAD AND SHADY OAK ROAD SITE PLAN												
68	W1-CIV-PRF-016		EDEN ROAD SOUTH PLAN AND PROFILE		30+00	35+50		137	W2-CIV-PLN-004		SHADY OAK ROAD INTERCHANGE SITE PLAN												
69	W1-CIV-PRF-017		EDEN ROAD SOUTH PLAN AND PROFILE		35+50	38+70		138	W2-CIV-PLN-005		CITY WEST STATION PARK AND RIDE SITE PLAN												
70	W1-CIV-PRF-018		GLEN LANE PLAN AND PROFILE		40+00	44+52		139	W3-CIV-PLN-001		OPUS STATION PARK AND RIDE SITE PLAN												
71	W1-CIV-PRF-019		FLYING CLOUD DRIVE PLAN AND PROFILE		501+00	507+50		140	W3-CIV-PLN-002		SHADY OAK STATION PARK AND RIDE SITE PLAN												
72	W1-CIV-PRF-020		FLYING CLOUD DRIVE PLAN AND PROFILE		507+50	515+00																	
NO.			DATE			BY			CHECK/DESIGN			REVISION / SUBMITTAL			CIVIL WEST - VOLUME 2 CIVIL VOLUME INDEX OF PLAN SHEETS DISCIPLINE: GENERAL SHEET NAME: W0-CIV-IDX - 001						SHEET 2 OF 140		

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CIVIL WEST - VOLUME 2 GENERAL KEY MAP		SHEET 3 OF 140
DISCIPLINE: GENERAL	SHEET NAME: W0-GEN-KEY - 001	

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TRACK LINETYPES

- ROADWAY
- TRACK (LRT)
- TRACK (FRT)
- RETAINING WALL
- BALLAST CURB
- TUNNEL WALL
- FENCE
- EX ROW
- PROP ROW
- PROP TCE
- PROP PE
- FENCE / RAILING
- ID ID INTRUSION DETECTION

CIVIL LINETYPES

- ROADWAY
- TRACK (LRT)
- TRACK (FRT)
- RETAINING WALL
- BALLAST CURB
- TUNNEL WALL
- CONCRETE CURB AND GUTTER
- TRAIL
- SIDEWALK
- DRIVEWAY
- BRIDGE
- SAWCUT
- FENCE
- DELINEATED WETLAND
- WATER EDGE
- EX ROW
- PROP ROW
- PROP TCE
- PROP PE
- CROSSWALK
- STOP BAR
- MEDIAN NOSE

TRACK SYMBOLS

- PROPOSED DIRECTIONAL LANE USE
- EXISTING DIRECTIONAL LANE USE
- PEDESTRIAN FLASHER
- AUTOMATIC GATE
- RAIL TURNOUT
- RAIL CROSSOVER (DOUBLE)
- RAIL CROSSOVER (SINGLE)
- POINT OF SWITCH (PS)
- OCS POLE FOUNDATION
- RAIL LUBRICATOR
- POINT OF INTERSECTION (PI) OF TURNOUT (TO)
- RAILROAD CURVE NUMBER

NOTE:
ALL TURNOUTS AND CROSSOVERS TO BE EQUIPPED WITH POWER
SWITCH MACHINES AND SWITCH HEATERS

CIVIL SYMBOLS

- ACCESSIBLE PEDESTRIAN CURB RAMP (DESIGN VARIES)
- PROPOSED DIRECTIONAL LANE USE
- EXISTING DIRECTIONAL LANE USE
- AUTOMATIC GATE
- HANDICAP PARKING STALL
- TACTILE WARNING STRIP
- TPSS BUILDING (TPSS-SW###)
- SIGNAL OR INTERMEDIATE OR PLATFORM OR XING OR TUNNEL HOUSE OR ANY COMBINATION OF THESE

SURVEY NOTES

- THE HORIZONTAL DATUM OF THIS MAP IS BASED ON THE HENNEPIN COUNTY COORDINATE SYSTEM WHICH IS RELATED TO THE MINNESOTA STATE PLANE COORDINATE SYSTEM NAD 83 (2007) ADJUSTMENT SOUTH ZONE.
- THE PLANIMETRIC FEATURES SHOWN ON THIS MAP ARE AS PREPARED BY AERO-METRIC, INC. FROM AERIAL DATA AND IMAGERY COLLECTED IN APRIL 2012, AS SUPPLEMENTED BY FIELD SURVEYS COMPLETED BY RANI ENGINEERING.
- HORIZONTAL POSITIONAL ACCURACY: USING THE NATIONAL STANDARD FOR SPATIAL DATA ACCURACY, THE DATA SET TESTED 0.14 FEET HORIZONTAL ACCURACY AT A 95% CONFIDENCE LEVEL.
- VERTICAL POSITIONAL ACCURACY: USING THE NATIONAL STANDARD FOR SPATIAL DATA ACCURACY, THE DATA SET TESTED 0.10 FEET VERTICAL ACCURACY AT 95% CONFIDENCE LEVEL.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 2
GENERAL
LEGEND AND ABBREVIATIONS
SHEET 1

DISCIPLINE: GENERAL

SHEET NAME: W0-GEN-NTS - 001

SHEET
4
OF
140

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ABBREVIATIONS

AD	ALGEBRAIC DIFFERENCE
AVE	AVENUE
BGN	BEGIN
BP	BEGINNING POINT
BVCE	BEGINNING VERTICAL CURVE ELEVATION
BVCS	BEGINNING VERTICAL CURVE STATION
BLVD	BOULEVARD
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY
C&G	CURB AND GUTTER
☉	CENTERLINE
CIR	CIRCLE
CP	CANADIAN PACIFIC
CPRAIL	CANADIAN PACIFIC RAILWAY
CS	CURVE TO SPIRAL
CSAH	COUNTY STATE AID HIGHWAY
D&U	DRAINAGE AND UTILITY
DF	DIRECT FIXATION
DR	DRIVE
DTL	DETAIL
DWY	DRIVEWAY
E	EAST
Ea	ACTUAL SUPERELEVATION (INCHES)
EB	EAST BOUND
EL or ELEV	ELEVATION
EP	END POINT
ESMT	EASEMENT
Eu	UNBALANCED SUPERELEVATION (INCHES)
EVCE	ENDING VERTICAL CURVE ELEVATION
EVCS	ENDING VERTICAL CURVE STATION
EX	EXISTING
HCRRRA	HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY
LH	LEFT HAND
LN	LANE
LRT	LIGHT RAIL TRANSIT
Lc	CURVE LENGTH (FEET)
Ls	SPIRAL LENGTH (FEET)
MIN	MINIMUM
MPH	MILES PER HOUR
MPLS	CITY OF MINNEAPOLIS
MPRB	MINNEAPOLIS PARK AND RECREATION BOARD
N	NORTH
NB	NORTH BOUND
NIC	NOT IN CONTRACT
NO	NUMBER
OMF	OPERATIONS AND MAINTENANCE FACILITY
OCS	OVERHEAD CONTACT SYSTEM
OH	OVERHEAD
PC	POINT OF CURVE
PE	PERMANENT EASEMENT
PITO	POINT OF INTERSECTION OF TURNOUT
PKWY	PARKWAY
POT	POINT ON TANGENT
PROP	PROPOSED
PS	POINT OF SWITCH
PT	POINT OF TANGENT
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS (FEET)
RD	ROAD
RL	RAIL LUBRICATOR
r	RATE OF CHANGE VERTICAL CURVE
RH	RIGHT HAND
ROW	RIGHT OF WAY
S	SOUTH
SB	SOUTH BOUND
SC	SPIRAL TO CURVE
SIG-COMM	SIGNAL COMMUNICATION
ST	STREET
ST	SPIRAL TO TANGENT
STA	STATION
TCE	TEMPORARY CONSTRUCTION EASEMENT
TH	TRUNK HIGHWAY
THRU	THROUGH
TOR	TOP OF RAIL
TPSS	TRACTION POWER SUBSTATION
TRK	TRACK
TS	TANGENT TO SPIRAL
TYP	TYPICAL
UG	UNDERGROUND
V	DESIGN VELOCITY (MPH)
VC	VERTICAL CURVE
W	WEST
WB	WEST BOUND

TRAIL INDEX

ABBREVIATED NAME	FULL NAME / LOCATION
TRAIL 1	UNDER RED CIRCLE DR, LRT, AND YELLOW CIRCLE DR
TRAIL 2	FROM TRAIL 1 TO GREEN CIRCLE DR
TRAIL 3	OPUS STATION ACCESS FROM BREN RD E
TRAIL 4	FROM BREN RD W TO TRAIL 5
TRAIL 5	FROM OPUS STATION TO GREEN CIRCLE DR
TRAIL 6	FROM TRAIL 5 TO SMETANA RD
CEDAR LAKE TRAIL	CEDAR LAKE LRT REGIONAL TRAIL/FROM SHADY OAK STATION TO 11TH AVE
CEDAR LAKE TRAIL	CEDAR LAKE LRT REGIONAL TRAIL/WEST OF EXCELSIOR
CEDAR LAKE TRAIL	CEDAR LAKE LRT REGIONAL LRT TRAIL/BETWEEN EXCELSIOR AND KENILWORTH TRAIL CONNECTION
MIDTOWN GREENWAY	MIDTOWN GREENWAY/EAST OF KENILWORTH TRAIL CONNECTION
TRAIL A	KENILWORTH TRAIL (SECONDARY)/BETWEEN CEDAR-ISLES CHANNEL AND 21ST STREET STATION
TRAIL B	KENILWORTH TRAIL (SECONDARY)/BETWEEN 21ST STREET STATION AND PENN STATION
TRAIL B	CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL C	10' CONNECTOR TRAIL FROM CEDAR LAKE LRT REGIONAL TRAIL TO TYLER AVE.
TRAIL D	10' CONNECTOR TRAIL/BELTLINE STATION TO CEDAR LAKE LRT REGIONAL TRAIL
KENILWORTH TRAIL	KENILWORTH TRAIL (MAIN)/W LAKE ST TO PENN STATION
CEDAR LAKE TRAIL	CEDAR LAKE TRAIL (MAIN)/PENN STATION TO TH 394
TRAIL E	KENILWORTH TRAIL (SECONDARY)/EAST OF W LAKE ST
TRAIL F	KENILWORTH TRAIL (SECONDARY)/WEST OF CEDAR LAKE PKWY
TRAIL G	KENILWORTH TRAIL (SECONDARY)/WEST OF PENN STATION
TRAIL G	CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL H	10' CONNECTOR TRAIL/EAST OF PENN STATION TO KENWOOD PKWY
TRAIL I	NOT USED
CEDAR LAKE TRAIL	CEDAR LAKE TRAIL (MAIN)/AT-GRADE CROSSING AT PENN STATION
TRAIL J	CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL K	CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL L	CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL M	NOT USED
TRAIL N	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO EDGEBROOK DRIVE
TRAIL O	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO W LAKE STREET
TRAIL P	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO LOUISIANA AVE
TRAIL Q	10' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO TH 7 SERVICE ROAD
TRAIL R	20' CONNECTOR TRAIL FROM VAN WHITE STATION TO CEDAR LAKE TRAIL
TRAIL S	NOT USED
TRAIL T	8' CONNECTOR TRAIL FROM VAN WHITE STATION TO VAN WHITE MEMORIAL BLVD
TRAIL U	10' TRAIL PARALLEL TO CEDAR LAKE PKWY
LUCE LINE TRAIL	LUCE LINE REGIONAL TRAIL/ON BRIDGE OVER LIGHT RAIL
TRAIL V	CONNECTOR TRAIL TO LUCE LINE REGIONAL TRAIL WEST OF LIGHT RAIL
TRAIL W	CONNECTOR TRAIL TO LUCE LINE REGIONAL TRAIL WEST OF LIGHT RAIL

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

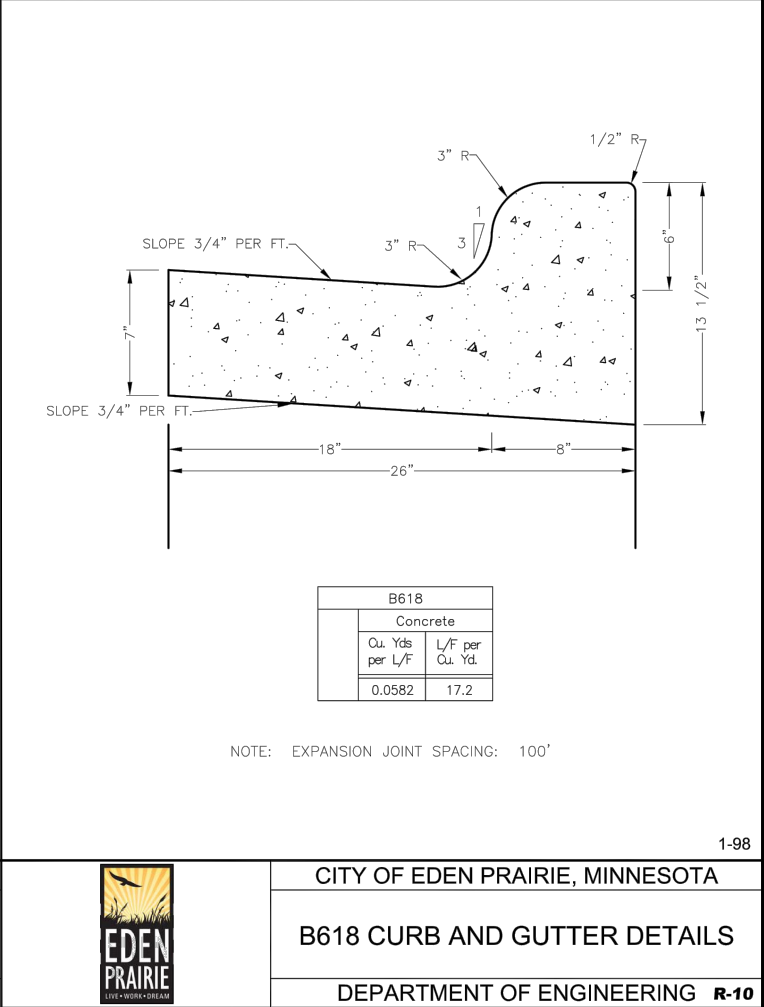
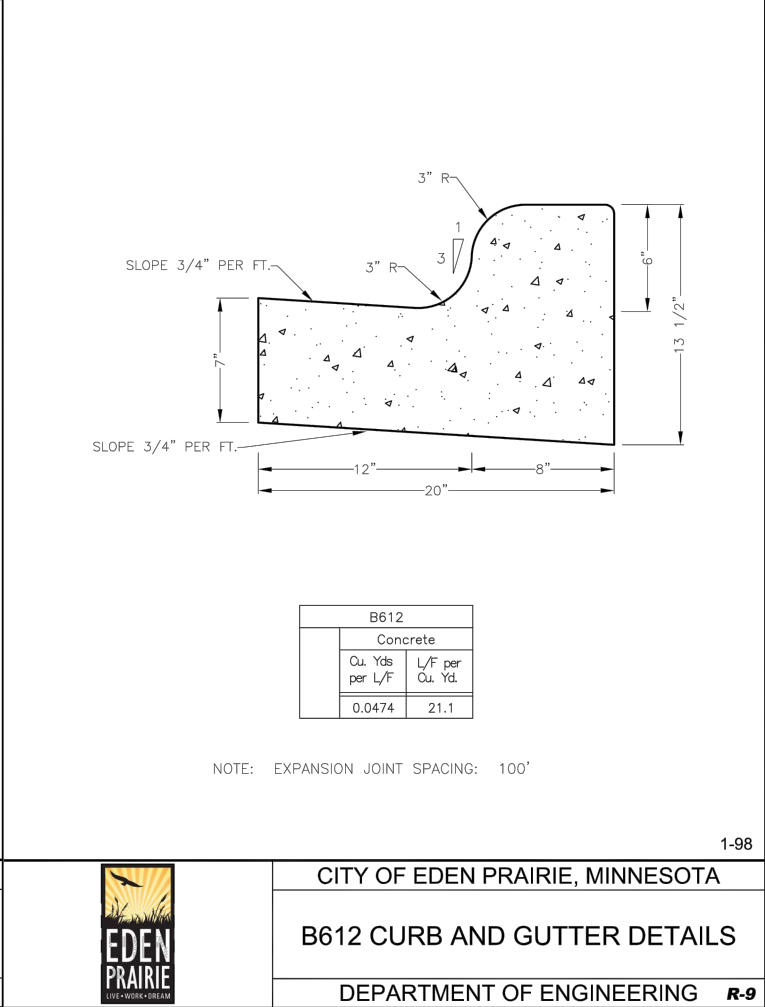
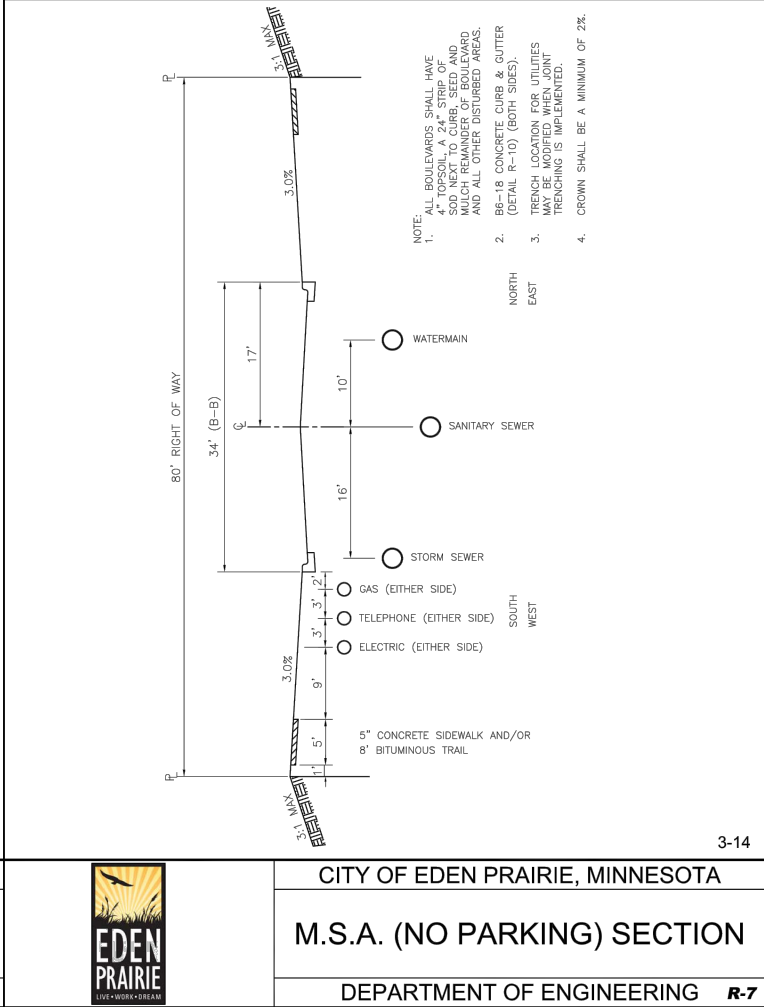
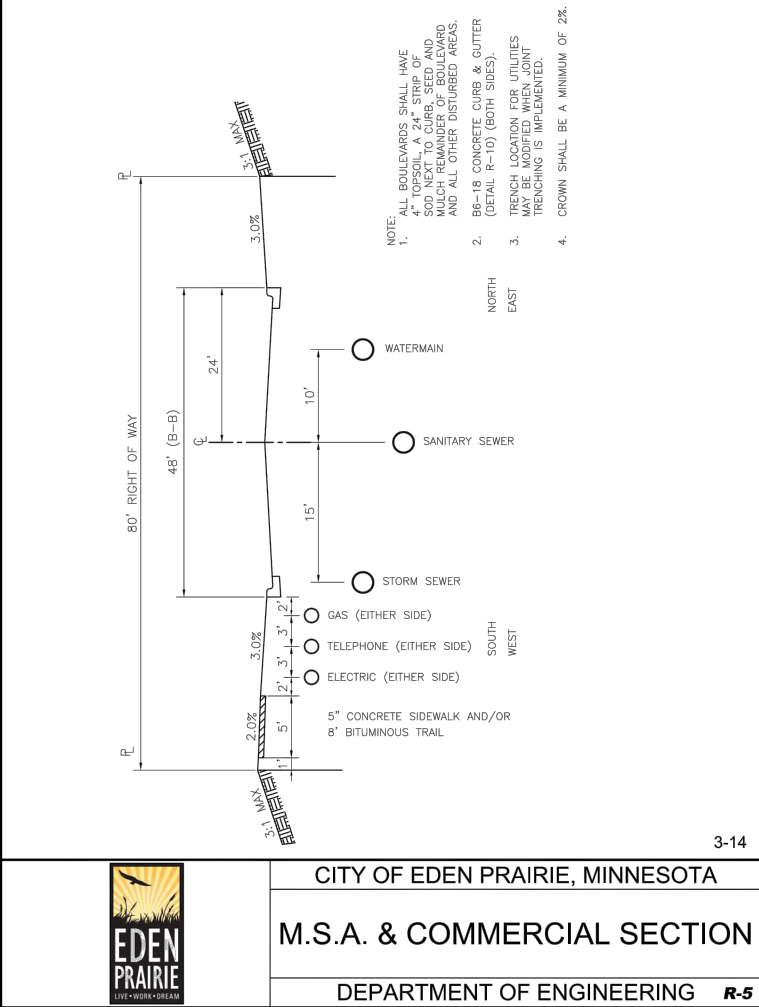


CIVIL WEST - VOLUME 2
GENERAL
LEGEND AND ABBREVIATIONS
SHEET 2

DISCIPLINE: GENERAL

SHEET NAME: W0-GEN-NTS - 002

Sep. 22 2015 12:28 pm v:\3400_ADC\CAD\OVERALL\PLAN SHEETS\CIVIL DETAILS\W0-CIV-DTL.dwg By: kncclement



	CITY OF EDEN PRAIRIE, MINNESOTA		CITY OF EDEN PRAIRIE, MINNESOTA		CITY OF EDEN PRAIRIE, MINNESOTA		CITY OF EDEN PRAIRIE, MINNESOTA
	M.S.A. & COMMERCIAL SECTION		M.S.A. (NO PARKING) SECTION		B612 CURB AND GUTTER DETAILS		B618 CURB AND GUTTER DETAILS
	DEPARTMENT OF ENGINEERING R-5		DEPARTMENT OF ENGINEERING R-7		DEPARTMENT OF ENGINEERING R-9		DEPARTMENT OF ENGINEERING R-10

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



CIVIL WEST - VOLUME 2
CIVIL
DETAILS AND STANDARD PLANS
SHEET 1

DISCIPLINE: CIVIL

SHEET NAME: W0-CIV-DTL-001

60% SUBMISSION - 09/28/15

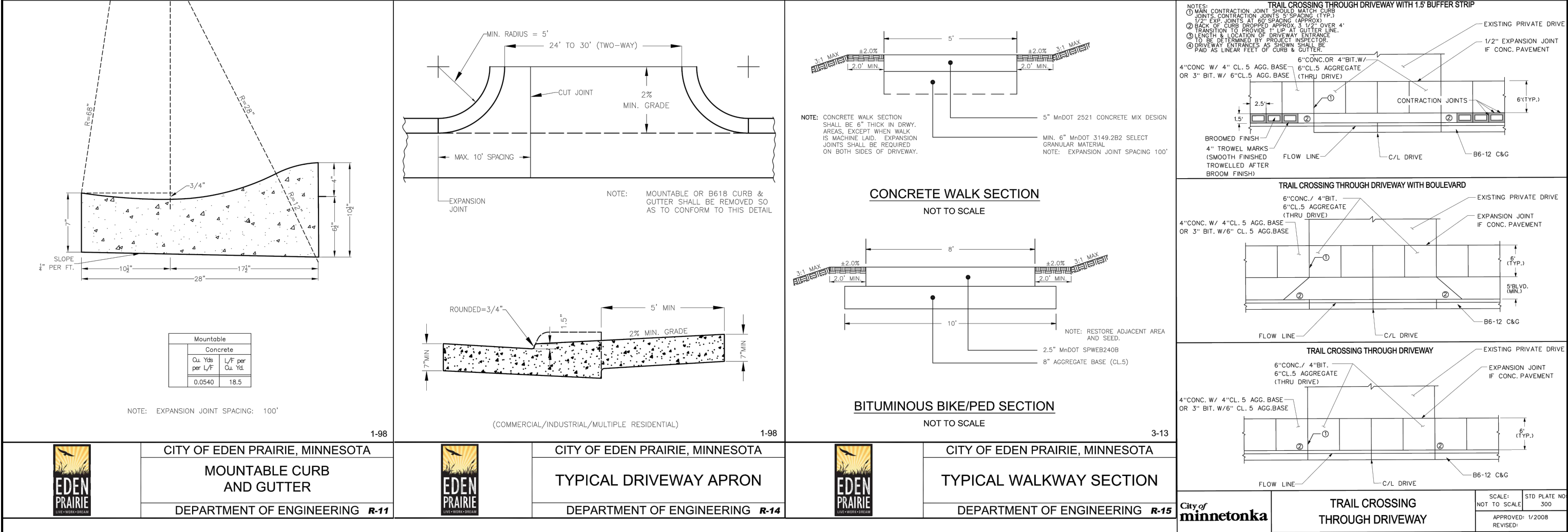
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CIVIL
DETAILS AND STANDARD PLANS
SHEET 1

DISCIPLINE: CIVIL

SHEET NAME: W0-CIV-DTL-001

SHEET 6 OF 140

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 2

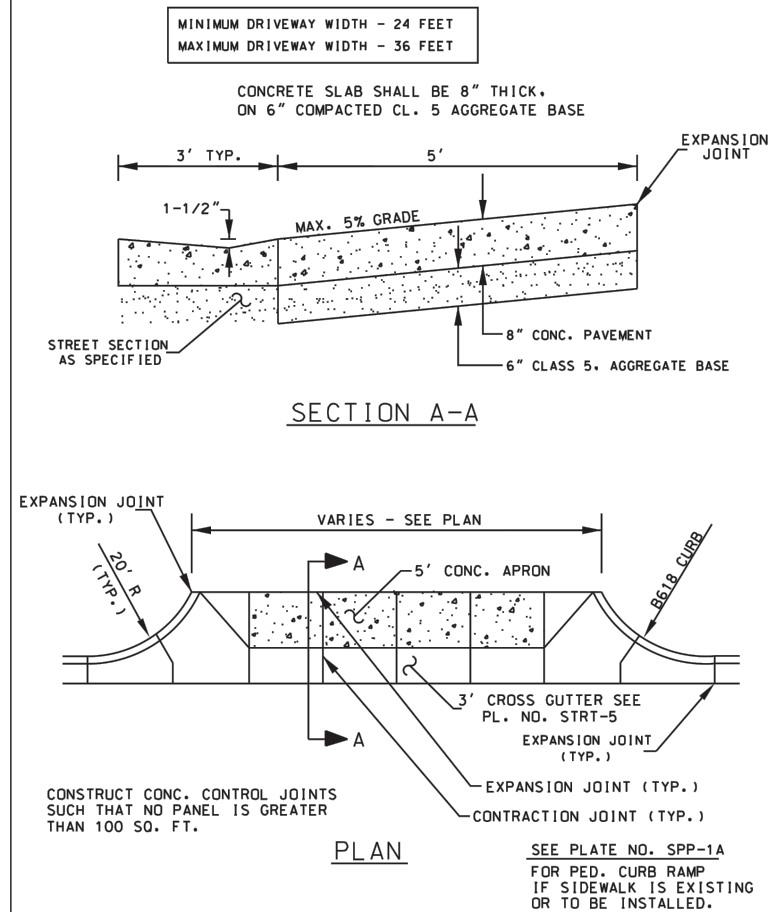
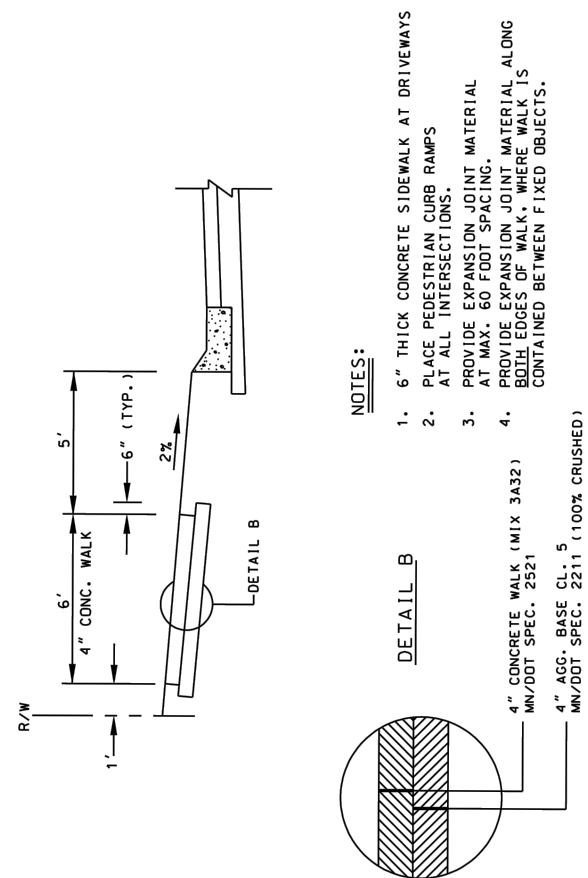
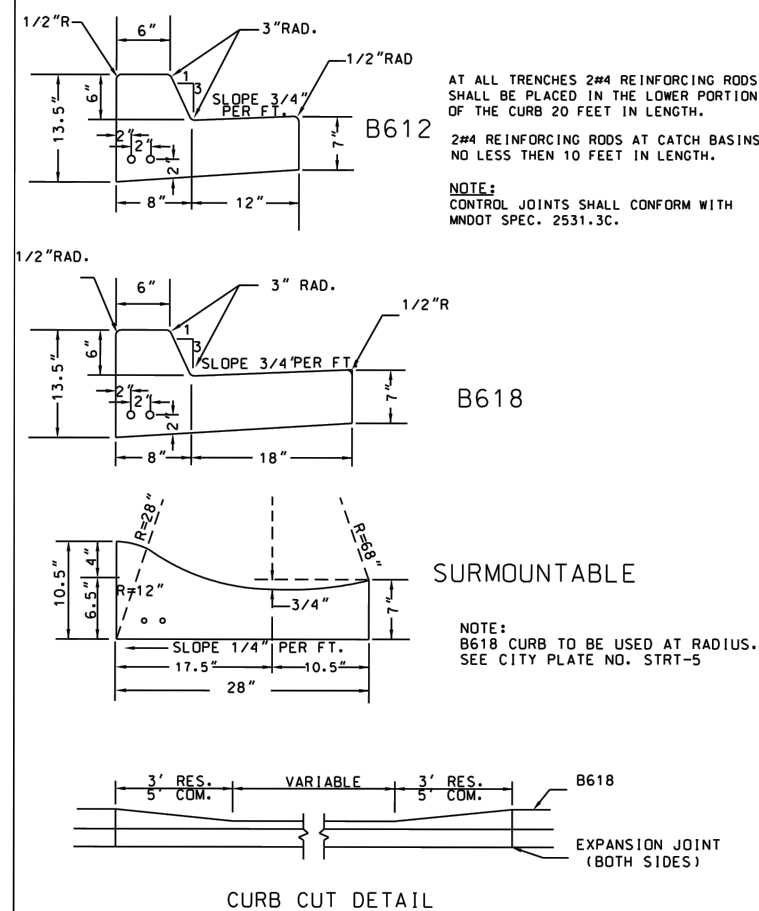
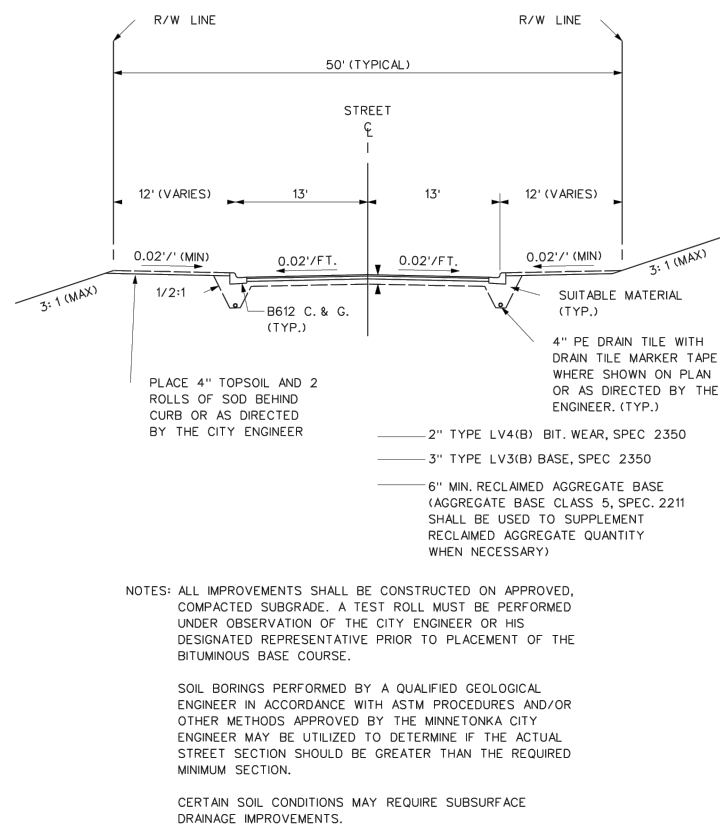
CIVIL

DETAILS AND STANDARD PLANS

SHEET 2

DISCIPLINE: CIVIL

SHEET NAME: W0-CIV-DTL-002



 City of minnetonka	MINIMUM STANDARD STREET SECTION	SCALE: 1" = 10'	STD. PLATE NO: 320	DRAWN BY:	STANDARD DETAILS STANDARD CURB DETAILS CITY OF HOPKINS	REVISED: 9-01	DRAWN BY:	STANDARD DETAILS CONCRETE WALK SECTION CITY OF HOPKINS	REVISED: 2-02	DRAWN BY:	STANDARD DETAILS INDUSTRIAL/ COMMERCIAL DRIVEWAY CITY OF HOPKINS	REVISED: 12-02
		APPROVED: 5/2000 REVISED: 1/2008	APPROV. BY:	CITY PL. NO. STRT-1		APPROV. BY:	CITY PL. NO. STRT-2A		APPROV. BY:	CITY PL. NO. STRT-6A		

[illegible]**60% SUBMISSION - 09/28/15**

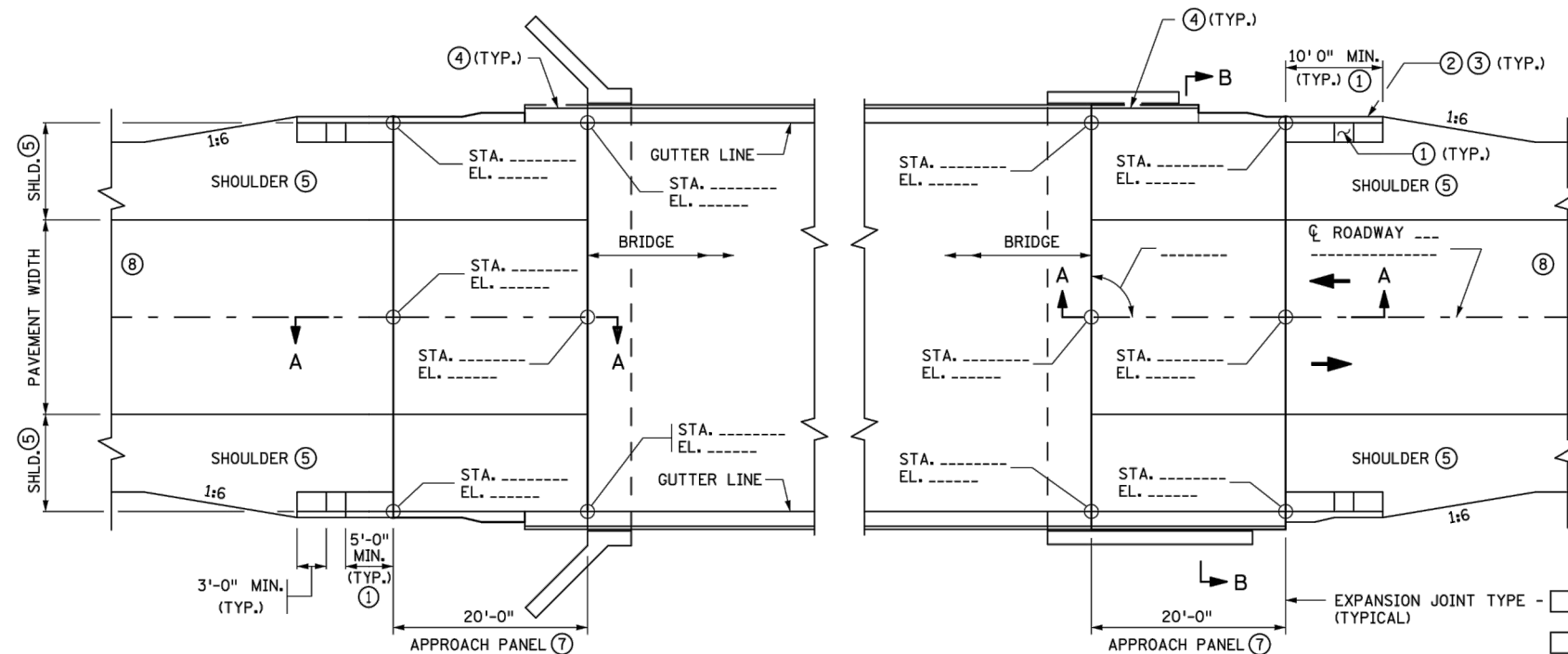
CIVIL WEST - VOLUME 2
CIVIL
DETAILS AND STANDARD PLANS
SHEET 3

DISCIPLINE: **CIVIL**

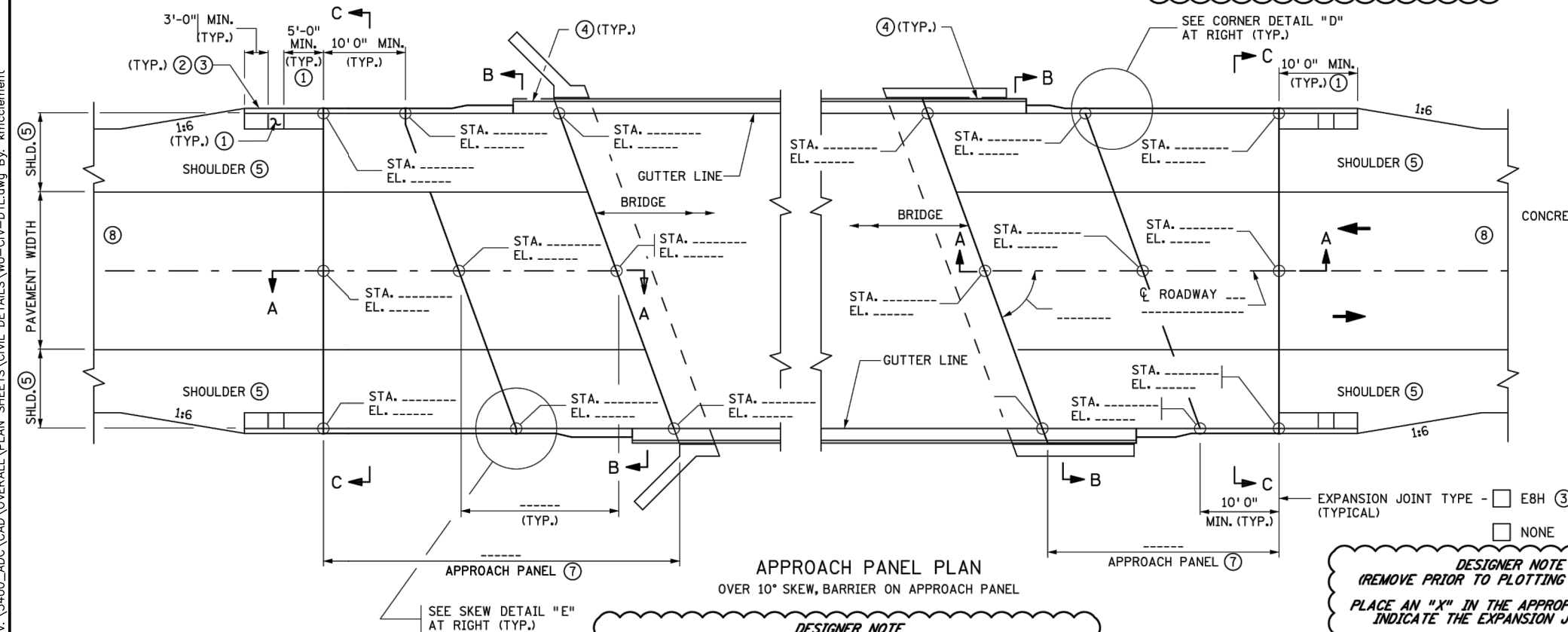
SHEET NAME:	W0-CIV-DTL-003
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SHEET
8
OF
140

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APPROACH PANEL PLAN
SQUARE TO 10° SKEW, BARRIER ON APPROACH PANEL



APPROACH PANEL PLAN
OVER 10° SKEW, BARRIER ON APPROACH PANEL

DESIGNER NOTE
(REMOVE PRIOR TO PLOTTING FINAL PLAN)
APPROACH PANEL PLAN VIEW SHOULD BE MODIFIED/MIRRORED TO SHOW ACTUAL SKEW ORIENTATION, BARRIER LENGTH, WINGWALL AND CURB TRANSITION CONFIGURATION AND TRAFFIC DIRECTION ARROWS.

DESIGNER NOTE
(REMOVE PRIOR TO PLOTTING FINAL PLAN)
SEE NOTE ④ AND COORDINATE BARRIER LENGTH WITH BRIDGE DESIGNER. 7'-0" MINIMUM LENGTH IS FOR TL-4 BARRIER. TL-5 BARRIER REQUIRES SPECIAL DESIGN. CONTACT THE BRIDGE DESIGNER.

DESIGNER NOTE
(REMOVE PRIOR TO PLOTTING FINAL PLAN)
PLACE AN "X" IN THE APPROPRIATE BOX TO INDICATE THE EXPANSION JOINT TYPE.

DESIGNER NOTE
(REMOVE PRIOR TO PLOTTING FINAL PLAN)
PLACE AN "X" IN THE APPROPRIATE BOX TO INDICATE THE EXPANSION JOINT TYPE.

NOTES:

- ① SEE STANDARD PLAN 5-297.231 FOR DRAINAGE DETAILS AND ADDITIONAL REQUIREMENTS.
- ② B4 CURB DESIGN SHOWN. SEE STANDARD PLATES FOR CURB DETAILS.
- ③ E8H QUANTITY SHALL BE PAID FOR SEPARATELY, MEASURED FROM BACK OF CURB TO BACK OF CURB.
- ④ TO ACCOMMODATE GUARDRAIL CONNECTION AND CRASH TEST REQUIREMENTS THE CONCRETE BARRIER MUST EXTEND 7'-0" MINIMUM ONTO THE APPROACH PANEL. FOR PARALLEL WINGWALLS THE BARRIER MUST EXTEND 7'-0" MINIMUM ON TO THE APPROACH PANEL OR TO THE END OF THE WINGWALL, WHICH EVER IS LONGER. REFER TO BRIDGE PLAN FOR BARRIER REINFORCEMENT AND PAYMENT.
- ⑤ SEE GRADING PLANS FOR PAVEMENT AND SHOULDER WIDTHS AND CONFIGURATION.
- ⑥ WHEN SKEW IS OVER 45°, THE JOINT SHALL BE PERPENDICULAR TO GUTTER FOR 1' (TYP.).
- ⑦ PANEL SIZE AND REQUIREMENTS FOR TRANSVERSE AND LONGITUDINAL JOINTS ARE SHOWN ON STANDARD PLANS 5-297.228 AND 5-297.229.
- ⑧ FOR CONCRETE PAVEMENT, SEE STANDARD PLAN 5-297.227 FOR LUG REQUIREMENTS.

GENERAL NOTES:

SECTION A-A IS SHOWN ON STANDARD PLAN 5-297.227. SECTIONS B-B AND C-C ARE SHOWN ON STANDARD PLAN 5-297.225 AND SHOW THE STATION AND ELEVATION AT END LOCATIONS ON THE APPROACH PANEL.

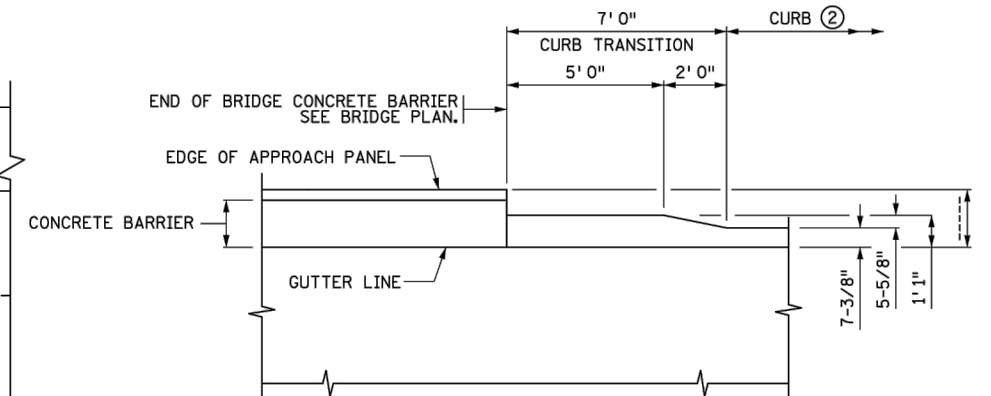
A CONCRETE SILL IS REQUIRED BENEATH EXPANSION JOINT TYPE E8H. EXTEND THE EXPANSION JOINT AND THE SILL ALONG THE FULL WIDTH OF THE TRAFFIC LANES, SHOULDERS AND CURB. ENSURE THAT SILL DOES NOT INTERFERE WITH GUARDRAIL POST PLACEMENT. CONCRETE SILL AND CURBING, IF REQUIRED, ARE INCLUDED IN THE APPROACH PANEL PAY ITEM.

AT THE END OF THE CONCRETE BARRIER, TRANSITION FACE OF 4-INCH CURB INTO PROFILE OF CONCRETE BARRIER. SEE CURB TRANSITION DETAILS ON STANDARD PLAN 5-297.227 IF THERE IS NO ROADWAY CURB AT THE END OF THE APPROACH PANEL, APPROACH PANEL CURB HEIGHT FROM 4 INCH TO 0 INCH IN THE LAST 3'-4" SECTION (1:10 OR FLATTER SLOPE).

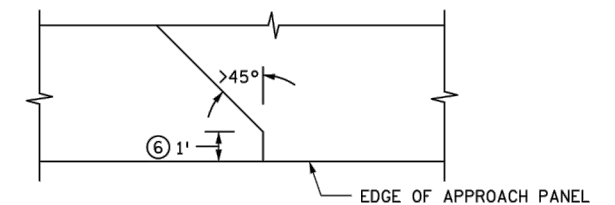
GENERAL DRAINAGE DETAILS ARE SHOWN ON BRIDGE APPROACH PANEL DRAINAGE DETAILS, STANDARD PLAN 5-297.231. ADDITIONAL CATCH BASIN DETAILS ARE SHOWN ON DRAINAGE PLAN SHEETS.

CONCRETE MIX SHALL BE 3A42 FOR APPROACH PANEL AND SILL.

REFER TO MNDOT SPEC. 2406 FOR ADDITIONAL INFORMATION.



CORNER DETAIL "D"
(PLAN VIEW)



(PLAN VIEW)
SKEW DETAIL "E"

BRIDGE NO. _____

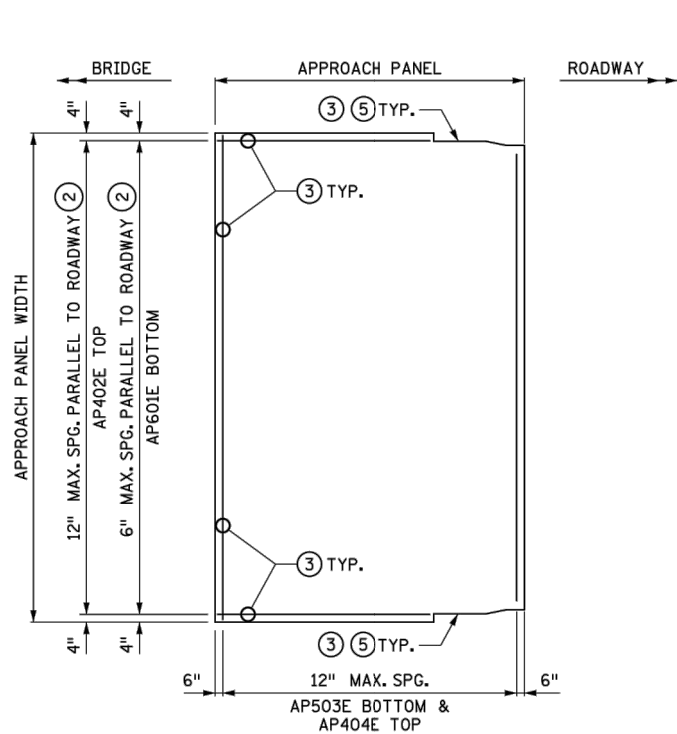
CERTIFIED BY _____
LICENSED PROFESSIONAL ENGINEER
DATE _____
PRINTED NAME: _____ LIC. NO. _____

STANDARD PLAN SHEET NO.
5-297.224
STANDARD APPROVED:
DECEMBER 20, 2011
STATE PROJ. NO. _____

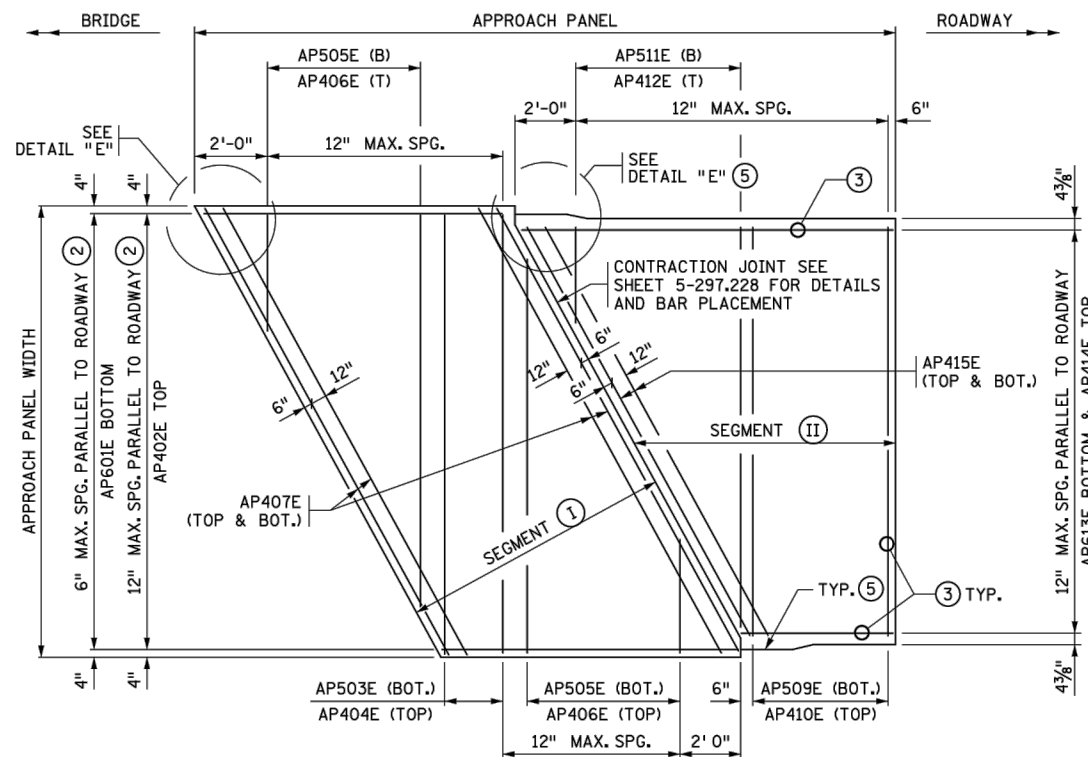
TITLE:
BRIDGE APPROACH PANEL
LAYOUT
(CONCRETE BARRIER ON APPROACH PANEL)

(TH) SHEET NO. OF SHEETS

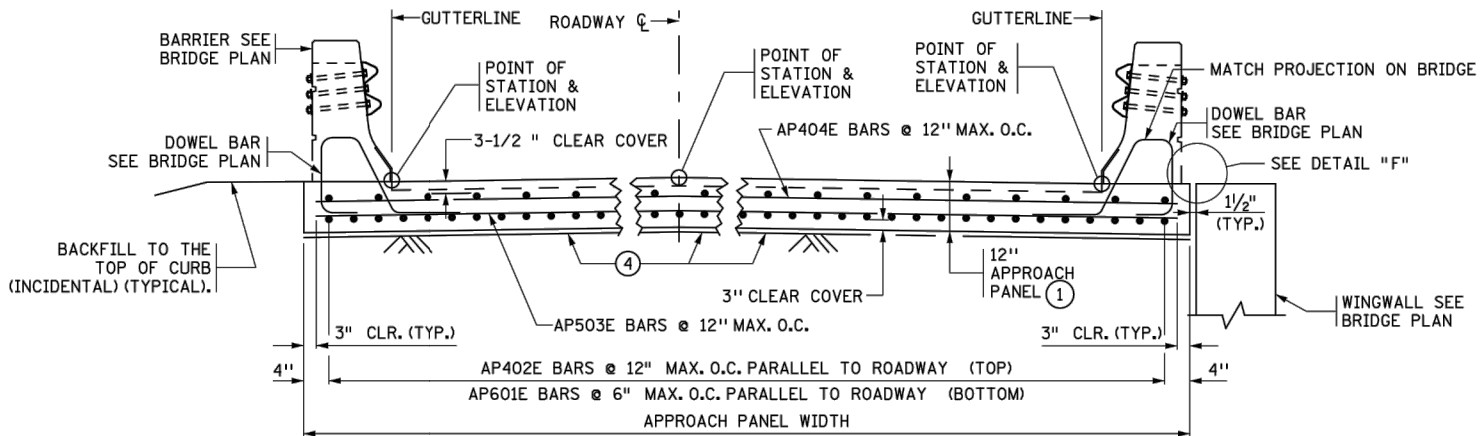
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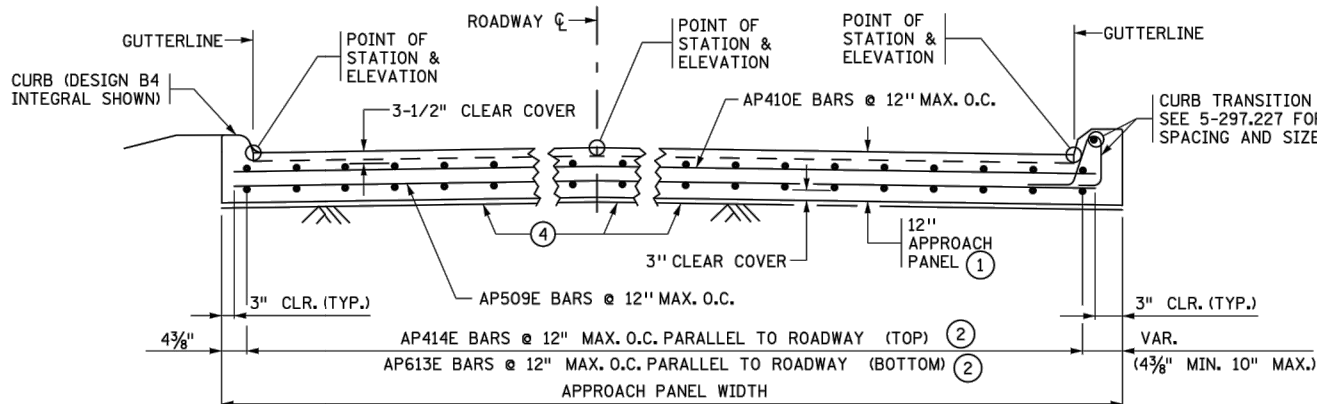
APPROACH PANEL REINFORCEMENT
SQUARE TO 10° SKEWS



APPROACH PANEL REINFORCEMENT
OVER 10° SKEWS



TRANSVERSE SECTION B-B
FROM STANDARD PLAN 5-297.224
CONCRETE BARRIERS ARE SHOWN, BUT MAY NOT BE PRESENT.
REFER TO BRIDGE PLANS FOR END OF BARRIER LOCATIONS.



TRANSVERSE SECTION C-C
FROM STANDARD PLAN 5-297.224

ESTIMATED REINFORCEMENT QUANTITY FOR BRIDGE APPROACH PANELS

TYPE	LOCATION	ESTIMATED WEIGHT
PANEL (SQ. TO 10°)	BRIDGE TO END OF APPROACH PANEL	48.5 LB./SQ. YD.
PANEL SEGMENT ① (OVER 10°)	BRIDGE TO CONTRACTION JOINT	48.5 LB./SQ. YD.
PANEL SEGMENT ② (OVER 10°)	CONTRACTION JOINT TO END OF APPROACH PANEL	35.0 LBS/SQ. YD.
CURB	7.0 FT. CURB TRANSITION	19.0 LBS/EACH
SILL	SILL (IF REQUIRED)	14.0 LBS/LIN FT.

NOTES:

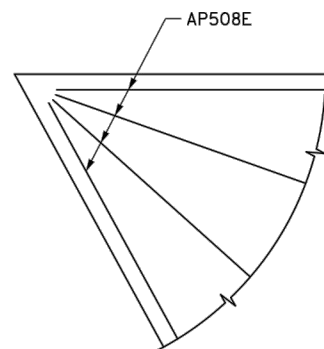
TRANSVERSE BARS IN BOTH PANEL SEGMENTS ARE PERPENDICULAR TO ROADWAY CENTERLINE EXCEPT AP407E ARE PARALLEL TO SKEW IN SEGMENT ① AND AP415E ARE PARALLEL TO SKEW IN SEGMENT ②.

LONGITUDINAL BARS IN BOTH PANEL SEGMENTS ARE PARALLEL TO ROADWAY CENTERLINE.

BILL OF REINFORCEMENT FOR
BRIDGE APPROACH PANELS

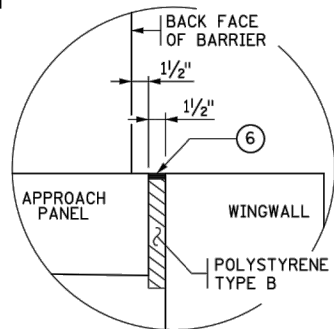
CONTRACTOR IS REQUIRED TO COMPLETE THE BILL OF REINFORCEMENT TABLE AND PREPARE SHOP DRAWINGS AND SUBMIT THEM TO THE PROJECT ENGINEER AT LEAST 3 WEEKS BEFORE REBAR FABRICATION.

BAR	NO.	LENGTH	SHAPE	LOCATION
AP601E		'-		BOTTOM LONGITUDINAL
AP402E		'-		TOP LONGITUDINAL
AP503E		'-		BOTTOM TRANSVERSE
AP404E		'-		TOP TRANSVERSE
AP505E	SER. OF	'- TO		BOTTOM TRANSVERSE
AP406E	SER. OF	'- TO		TOP TRANSVERSE
AP407E		'-		TOP & BOTTOM EDGE
AP508E		8'-0		TOP CORNER - FAN
AP509E		'-		BOTTOM TRANSVERSE
AP410E		'-		TOP TRANSVERSE
AP511E	SER. OF	'- TO		BOTTOM TRANSVERSE
AP412E	SER. OF	'- TO		TOP TRANSVERSE
AP613E	SER. OF	'- TO		BOTTOM LONGITUDINAL
AP414E	SER. OF	'- TO		TOP LONGITUDINAL
AP415E		'-		TOP & BOTTOM EDGE
AP616E		5'-0		C2H-D JOINT

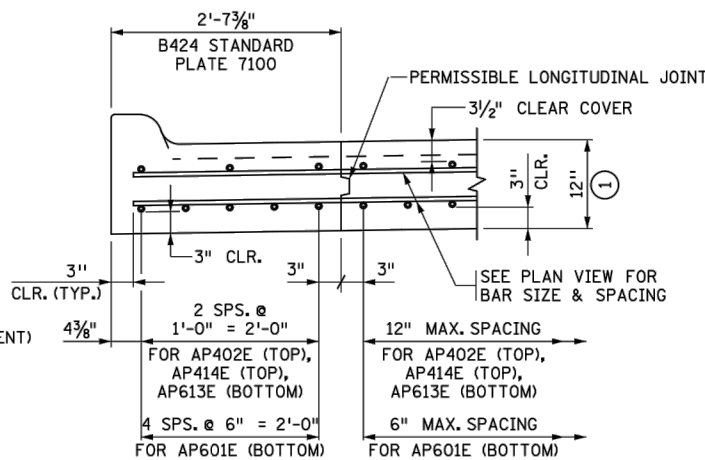


DETAIL "E"

FAN 4-AP508E BARS AS SHOWN
IN ACUTE CORNERS FOR SKEWS OVER 30°.



DETAIL "F"



CURB DETAIL

(B424 CURB AND GUTTER SHOWN)

GENERAL NOTES:

AS PER MNDOT SPEC. 3301, USE EPOXY COATED GRADE 60 REINFORCEMENT BARS IN APPROACH PANEL, CONCRETE SILL AND CURB TRANSITION.

BARS MARKED WITH THE SUFFIX "E" SHALL BE EPOXY COATED IN ACCORDANCE WITH MNDOT SPEC. 3301.

FOR VARIABLE ROADWAY WIDTHS, VARY THE LAP LENGTH OF THE REINFORCEMENT.

MINIMUM REINFORCEMENT LAP LENGTHS ARE AS FOLLOWS: NO. 4 BAR = 1'-8", NO. 5 BAR = 2'-1", NO. 6 BAR = 2'-6".

ALL LAP SPLICES SHALL BE STAGGERED SUCH THAT NO MORE THAN 50% OF REBAR IS SPLICED AT THE SAME LOCATION.

- ① APPROACH SLAB THICKNESS IS 12" (12" MONOLITHIC OR 10" SLAB + 2" WEARING COURSE). CHECK BRIDGE PLANS FOR CONCRETE WEARING COURSE, WHICH IS INCLUDED IN BRIDGE PLAN QUANTITIES.
- ② SPACING ONLY FOR B4 INTEGRANT CURB. SEE CURB DETAIL FOR SPACING FOR USING B424 CURB AND GUTTER.
- ③ EXTEND AND/OR CUT REINFORCING AS NECESSARY TO ACCOMMODATE CURB TRANSITION IF PRESENT. REINFORCEMENT MUST EXTEND INTO CURB AS SHOWN IN TRANSVERSE SECTIONS B-B AND C-C.
- ④ IF THE APPROACH PANEL IS TIED TO THE BRIDGE ABUTMENT WITH REINFORCEMENT BARS, PLACE 12 MIL POLYETHYLENE SHEETING (OR 2 LAYERS OF 6 MIL) UNDER THE LIMITS OF THE APPROACH PANEL TO ALLOW THE PANEL TO MOVE LONGITUDINALLY ON THE GRADE. SHEETING IS INCLUDED IN THE APPROACH PANEL PAY ITEM.
- ⑤ SEE STANDARD PLAN 5-297.224 FOR CURB TRANSITION LOCATION.
- ⑥ SEAL WITH SELF-LEVELING SILICONE PER MNDOT 3722.

STANDARD PLAN SHEET NO. 5-297.225	TITLE: BRIDGE APPROACH PANEL REINFORCEMENT DETAILS (CONCRETE BARRIER ON APPROACH PANEL)
STANDARD APPROVED: DECEMBER 20, 2011	
STATE PROJ. NO.	(TH) SHEET NO. OF SHEETS

REVISION DATE
3-22-2013

[illegible]

END OF APPROACH PANEL

EXPANSION JOINT TYPE EBH (4)

PANEL ADJACENT TO SILL

CONCRETE ROADWAY SEE ROADWAY PLANS FOR DETAILS

SEE SILL DETAILS

S404E @ 1'-6" (TYP.)

5' 0"

5' 0"

5' 0"

3" CLR. TYP.

NO. S405E TRANSVERSE BARS (TYP.)

12" X 12" MIN. KEY. CONCRETE SHALL BE PLACED DIRECTLY AGAINST COMPACTED BASE MATERIAL OR FORMS. END KEY 6" FROM EDGE OF ROADWAY. (INCIDENTAL)

Diagram illustrating a permissible construction joint in a concrete approach panel. The diagram shows a cross-section of the joint, labeled (4) EXPANSION JOINT TYPE EBH. The joint is located at the END OF APPROACH PANEL. The concrete end block and S401E bars are included with the sill. The joint is constructed with a PERMISSIBLE CONSTRUCTION JOINT, which is a BITUMINOUS ROADWAY. The joint is detailed with SEE SILL DETAILS and BITUMINOUS ROADWAY SEE ROADWAY PLANS FOR DETAILS.

The image contains three technical drawings of channel sections:

- S402E:** A rectangular channel section with a width of 3' 6" and a height of 12".
- S404E:** A channel section with a top flange width of 1' 0", a web height of 1' 0", and a bottom flange width of 6".
- S401E:** A channel section with a top flange width of 1' 8", a web height of 12", and a bottom flange width of 12". It features a 2" radius on the top corner and a 4" x 12" gusset plate on the web.

Below the S401E drawing, a vertical dimension line indicates the height of the channel sections from C401E to C405E:

- C405E to C404E: 1' 4-1/2"
- C404E to C403E: 1' 3-1/2"
- C403E to C402E: 1' 2"
- C402E to C401E: 1' 0-1/2"
- C401E to the bottom: 11"

At the bottom of the page, the text "C401E - C405E" is displayed.

SEE STD. PLATES FOR
B4 INTEGRANT CURB OR
B424 CURB & GUTTER

7' 0"

C406E BAR,
6' 9" LG.

2'-0"

D

6" TOP

⑤

1' 1"

8"

GUTTER LINE

FOUR SPS. AT 1' 7-1/2" =
6' 6" C405E - C401E

3"

3"

D

PERMISSIBLE
CONSTRUCTION
JOINT

PLAN VIEW

7' 0"

3"

4"

C405E C404E C403E C402E C401E

INSIDE ELEVATION
(FOR F - SHAPE SAFETY RAIL)

7-3/8"

4"

B4 CURB

2" CLR.

C406E BAR,
6' 9" LG.

C401E-C405E

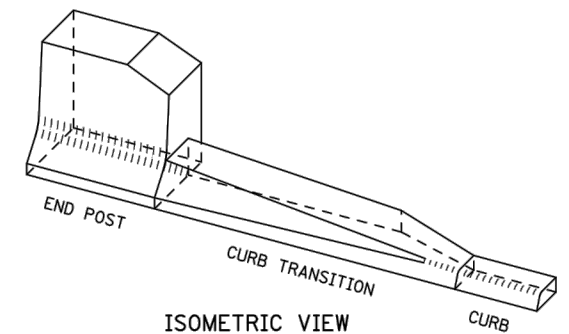
1-1/2" CLR.

SECTION D-D

F-SHAPE SAFETY BARRIER TO B4 CURB
WITH W-BEAM GUARDRAIL BARRIER

Diagram illustrating the end of the approach panel and the expansion joint (Type None) connecting to the bituminous roadway. The diagram shows the transition from the approach panel to the roadway, with labels indicating the end of the approach panel, the expansion joint (Type None), and the bituminous roadway, which refers to the roadway plans for details.

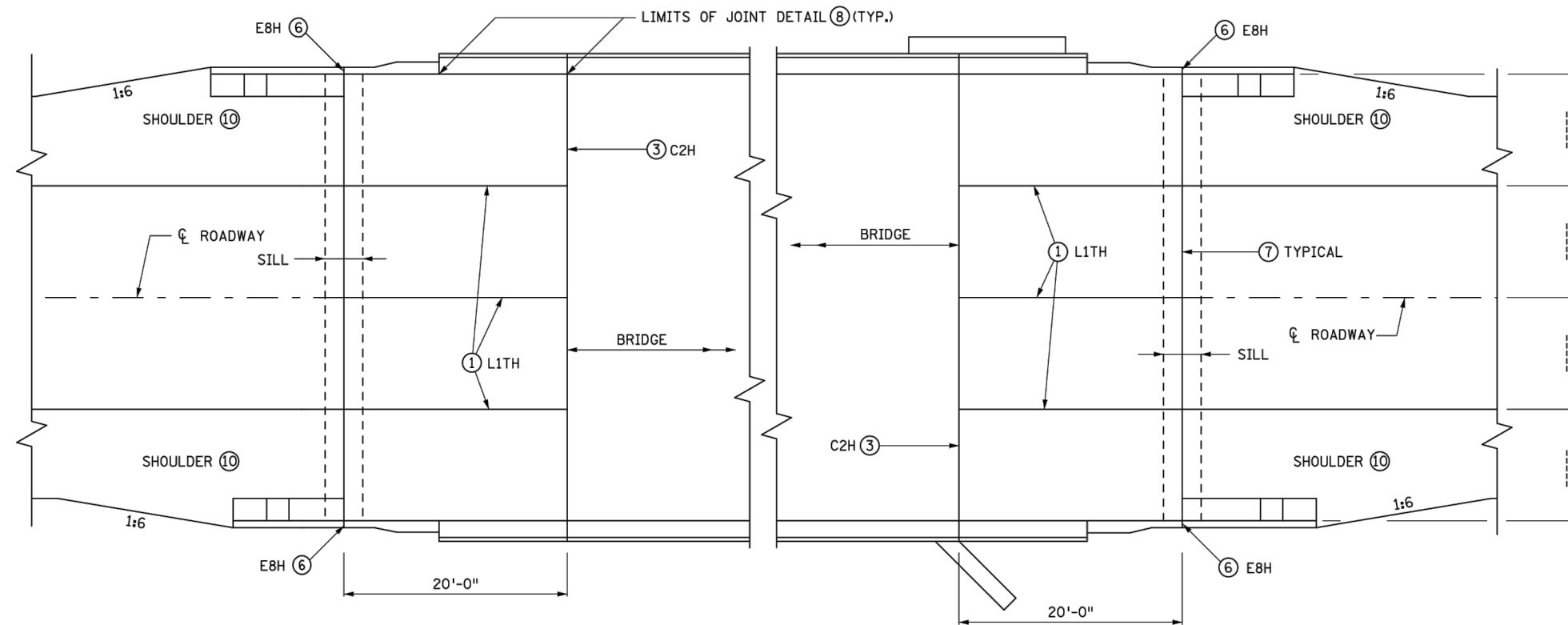
BAR	NO.	LENGTH	SHAPE	LOCATION
C401E		3' 6"		CURB VERTICAL
C402E		3' 9"		CURB VERTICAL
C403E		4' 0"		CURB VERTICAL
C404E		4' 3"		CURB VERTICAL
C405E		4' 5"		CURB VERTICAL
C406E		6' 9"		CURB LONGITUDINAL



⑥ IF THE APPROACH PANEL IS TIED TO THE BRIDGE ABUTMENT WITH REINFORCEMENT BARS, PLACE 12 MIL POLYETHYLENE SHEETING (OR 2 LAYERS OF 6 MIL) UNDER THE LIMITS OF THE APPROACH PANEL TO ALLOW THE PANEL TO MOVE LONGITUDINALLY ON THE GRADE. SHEETING IS INCLUDED IN THE APPROACH PANEL PAY ITEM.

(TH) SHEET NO. OF SHEETS

Sep. 22 2015 12:28 pm v:\3400_ADC\CAD\OVERALL\PLAN SHEETS\CIVIL DETAILS\WO-CIV-DTL.dwg By: kncclement

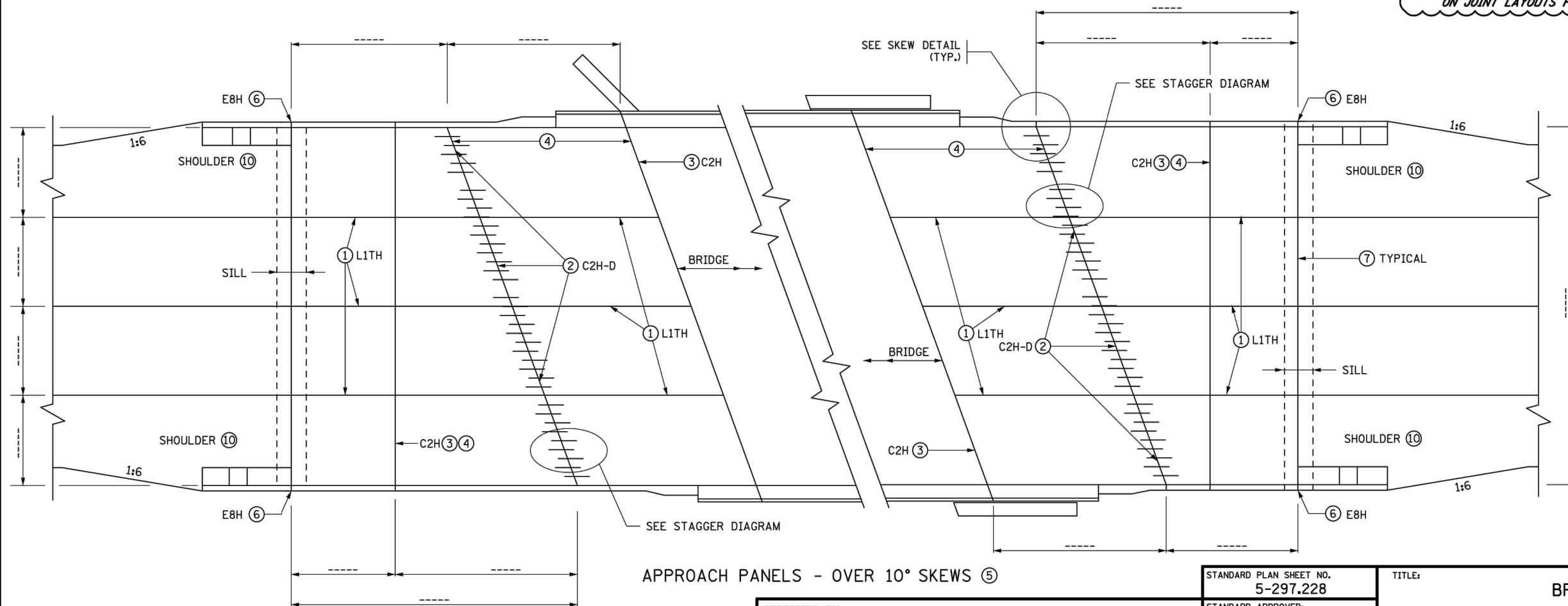


APPROACH PANELS - SQUARE TO 10° SKEWS ⑤

APPROACH PANEL JOINT LAYOUT NOTES:

- ① L1TH LONGITUDINAL JOINT. SEE STANDARD PLAN 5-297.229 FOR REINFORCEMENT LAP LENGTH REQUIREMENTS FOR STAGED CONSTRUCTION.
- ② PERMISSIBLE CONSTRUCTION JOINT. USE JOINT TYPE C2H-D WITH AP616E BARS AT 12-INCH SPACING AT MID DEPTH OF THE SLAB, PARALLEL TO THE CENTERLINE OF THE ROADWAY. AP616E BARS ARE 5'-0" LONG. PLACE THE BAR WITH 2'-0" ON ONE SIDE OF THE JOINT AND 3'-0" ON THE OPPOSITE SIDE OF THE JOINT. ALTERNATE THE 2'-0" AND 3'-0" DIMENSIONS AS SHOWN ON THE PLAN. THE C2H-D JOINT AND AP616E BARS ARE REQUIRED ON ALL PANELS WITH A SKEW OVER 10 DEGREES.
- ③ C2H CONTRACTION JOINT.
- ④ MAXIMUM PANEL LENGTH OF 20'-0" FOR UP TO 40° SKEWS, 15'-0" FOR SKEWS OVER 40°.
- ⑤ ALL JOINTS SHALL BE SAWCUT. SAWCUTS SHALL BE MADE WHILE THE CONCRETE IS STILL GREEN. WHEN A CONCRETE WEARING COURSE IS SPECIFIED, THE JOINTS SHALL BE SAWN THROUGH BOTH THE WEARING COURSE AND THE UNDERLYING APPROACH SLAB IN A SINGLE OPERATION.
- ⑥ E8H JOINT REQUIRED IN CURB ADJACENT TO E8H JOINT. E8H QUANTITY SHALL BE PAID FOR SEPARATELY, MEASURED FROM BACK OF CURB TO BACK OF CURB.
- ⑦ SEE STANDARD PLANS 5-297.222 OR 5-297.224 FOR TYPE OF EXPANSION JOINT.
- ⑧ SEE STANDARD PLANS 5-297.229 OR 5-297.231 FOR JOINT DETAIL FOR CONCRETE BARRIER ON WINGWALL.
- ⑨ WHEN SKEW IS OVER 45°, THE JOINT SHALL BE PERPENDICULAR TO GUTTER FOR 1' (TYP.).
- ⑩ SEE GRADING PLAN FOR PAVEMENT AND SHOULDER WIDTHS AND CONFIGURATION.

DESIGNER NOTE
(REMOVE PRIOR TO PLOTTING FINAL PLAN)
THIS SHEET IS INTENDED AS A TEMPLATE FOR APPROACH PANEL JOINT LAYOUT. DESIGNERS SHOULD MAKE CHANGES AS NEEDED TO MATCH THE SKEW, DIMENSIONS, ETC. OF A PARTICULAR BRIDGE. THE MAXIMUM SIZE CONCRETE PANEL BETWEEN JOINTS OR SAWCUTS SHOULD BE 12' X 20'. CONTACT THE CONCRETE ENGINEERING UNIT FOR ASSISTANCE ON JOINT LAYOUTS FOR WIDE BRIDGES OR BRIDGES WITH LARGE SKEWS.



APPROACH PANELS - OVER 10° SKEWS ⑤

BRIDGE NO. _____

REVISION DATE
3-22-2013

CERTIFIED BY _____
LICENSED PROFESSIONAL ENGINEER
DATE _____
PRINTED NAME: _____ LIC. NO. _____

STANDARD PLAN SHEET NO.
5-297.228

STANDARD APPROVED:
MARCH 23, 2011

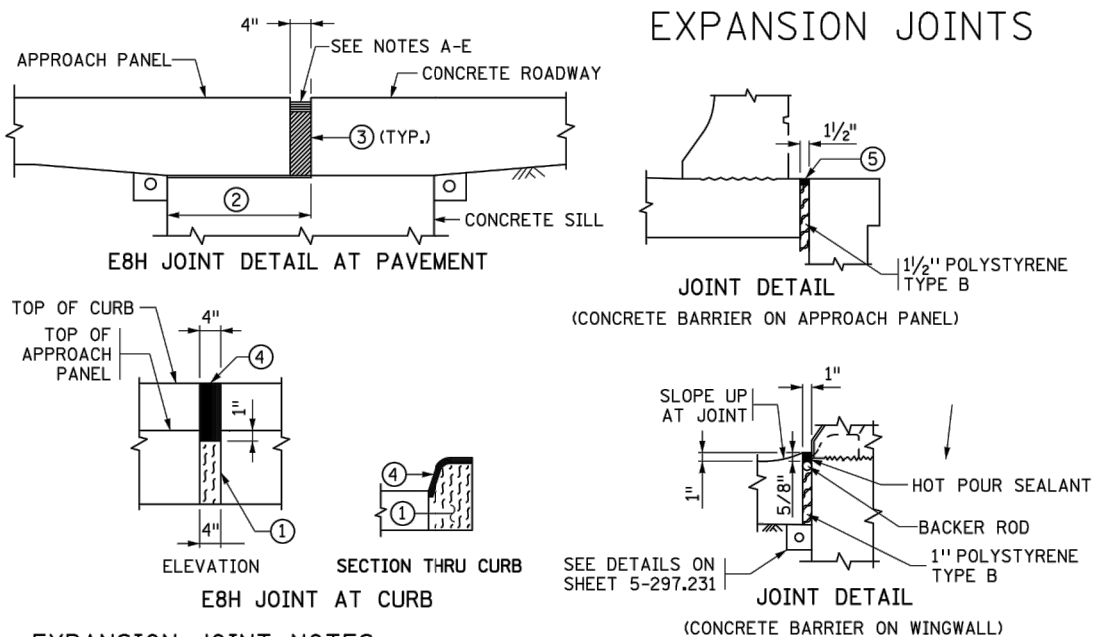
STATE PROJ. NO. _____

TITLE:

BRIDGE APPROACH PANEL
JOINT LAYOUT

(TH) SHEET NO. OF SHEETS

Sep. 22 2015 12:28 pm v:\3400_ADC\CAD\OVERALL\PLAN SHEETS\CIVIL DETAILS\WO-CIV-DTL.dwg By: kmclement



EXPANSION JOINT NOTES:

- 1 PREFORMED JOINT FILLER MATERIAL, SPEC. 3702.
- 2 PLACE PLASTIC SHEETING SPEC. 3756 AS APPROVED BY THE ENGINEER TO BREAK BOND. COVER AREA SHOWN IN DETAIL. SEE SILL DETAILS ON STANDARD PLAN 5-297.227.
- 3 THE JOINT FACES SHALL BE CLEANED AND DRIED BY SANDBLASTING AND AIR BLASTING PRIOR TO SEALING THE JOINT.
- 4 HOT POUR JOINT SEALER SPEC. 3725. TOP OF SEALER FLUSH TO 1/8 INCH BELOW TOP OF PAVEMENT SURFACE. MAKE TOP OF SEALER FOR CURB SECTION E8H JOINTS FLUSH WITH SURFACE (+ 1/8 INCH OR - 1/8 INCH).
- 5 SEAL WITH SELF-LEVELING SILICONE PER MNDOT 3722.

E8H PRESSURE RELIEF JOINT MATERIAL INSTALLATION INSTRUCTIONS:

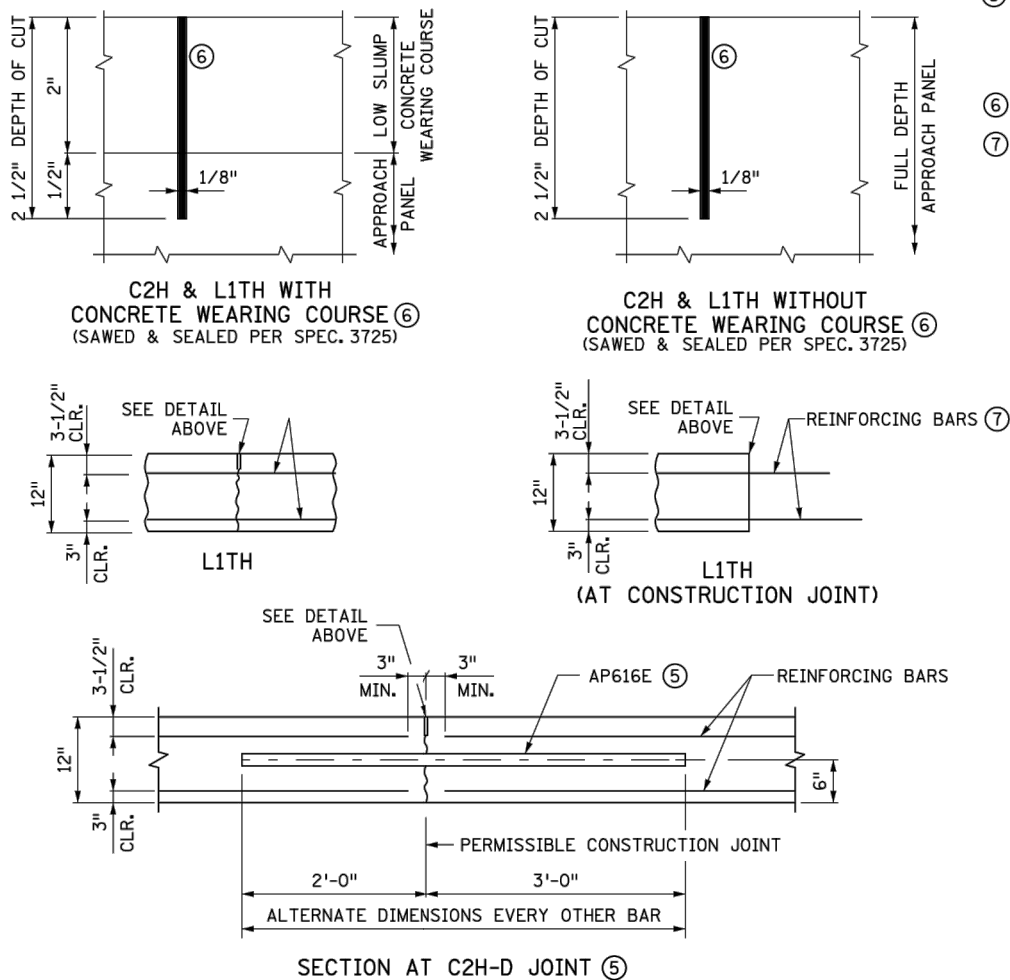
SEE MNDOT APPROVED/QUALIFIED PRODUCTS LIST.

FURNISH AND INSTALL JOINT MATERIAL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE FOLLOWING:

- (A) EXPANSION JOINT FILLER MATERIALS USED FOR A 4 INCH PRESSURE RELIEF JOINT CONSISTS OF A PREFORMED FOAM PRODUCT HAVING MINIMUM DIMENSIONS OF 4.5 INCHES IN WIDTH (MAY BE LAMINATED) AND 8 INCHES IN DEPTH, AND A MINIMUM LENGTH OF 10 FEET. WHEN THE CONCRETE DEPTH IS GREATER THAN THE DEPTH OF THE PRESSURE RELIEF MATERIAL, FILL THE VOID BELOW THE MATERIAL WITH POLYSTYRENE. FURNISH AND INSTALL THE JOINT MATERIAL UNDER COMPRESSION WITH A LUBRICANT ADHESIVE APPLIED TO THE CONCRETE CONTACT SURFACES.
- (B) SAW OR FORM THE JOINTS 4 INCHES WIDE BY THE FULL-DEPTH OF THE PANEL. INSPECT TO ASSURE THAT THE INSIDE WALLS OF THE JOINT HAVE BEEN SANDBLASTED, ARE DRY, SMOOTH AND FREE OF DEBRIS AND LOOSE PARTICLES. APPLY TAPE TO THE TOP 1 INCH OF THE INSIDE WALLS TO PREVENT THE LUBRICANT ADHESIVE FROM CONTAMINATING THE CONCRETE BONDING SURFACES OF THE SUBSEQUENTLY PLACED HOT POUR JOINT SEALER.
- (C) PAINT THE INSIDE WALLS OF THE JOINT WITH LUBRICANT ADHESIVE AT THE RATE OF 1 GALLON PER 50 LINEAL FEET OF JOINT.
- (D) PINCH THE BOTTOM OF THE MATERIAL TOGETHER AND PUSH IT DOWN INTO THE JOINT. WALK THE MATERIAL DOWN INTO THE JOINT; USE A SLEDGEHAMMER AND A 2 X 4 IF NECESSARY. APPLY LUBRICANT ADHESIVE TO THE ENDS OF THE PREFORMED FOAM MATERIAL WHEN BUTTING TWO PIECES TOGETHER.
- (E) FURNISH AND INSTALL THE FOAM RELIEF JOINT MATERIAL TO A DEPTH OF APPROXIMATELY 7/8 INCH BELOW THE FINISHED CONCRETE SURFACE. AFTER INSTALLATION, REMOVE THE TAPE AND FILL THE VOID ON TOP OF THE FOAM MATERIAL WITH APPROXIMATELY 1/2 INCH OF HOT POUR JOINT SEALER (MNDOT 3723 OR 3725) TO A LEVEL OF 3/8 INCH +/- 1/4 INCH BELOW THE FINISHED CONCRETE SURFACE. THE HOT POUR JOINT SEALER SHOULD ONLY SLIGHTLY MELT INTO THE FOAM JOINT MATERIAL (TO PREVENT EXCESSIVE MELTING OF THE JOINT MATERIAL, PLACE THE HOT POUR SEALER AT THE LOWER END OF THE TEMPERATURE SPECIFICATION). CHECK FOR CORRECT TEMPERATURE BY PLACING HOT POUR SEALER ON A SAMPLE OF WASTE FOAM MATERIAL.

JOINT NOTES:

- 5 PERMISSIBLE CONSTRUCTION JOINT. AP616E BARS AT 12-INCH SPACING AT MID DEPTH OF SLAB, PARALLEL TO THE CENTERLINE OF THE ROADWAY. AP616E BARS ARE 5'-0" LONG. PLACE THE BAR WITH 2'-0" ON ONE SIDE OF THE JOINT AND 3'-0" ON THE OPPOSITE SIDE OF THE JOINT. ALTERNATE THE 2'-0" AND 3'-0" DIMENSION AS SHOWN ON THE PLAN.
- 6 CLEAN AND DRY FULLY CURED JOINT FACES BY SANDBLASTING PRIOR TO SEALING THE JOINT.
- 7 WHEN CONSTRUCTING A L1TH JOINT UNDER STAGED CONSTRUCTION, EXTEND NO. 4 BARS 1'-8" AND NO. 5 BARS 2'-1" PAST THE EDGE OF THE FIRST CONCRETE POUR. CONSTRUCT L1TH JOINT ACCORDING TO DETAIL SHOWN AFTER ADJACENT POUR IS COMPLETE.

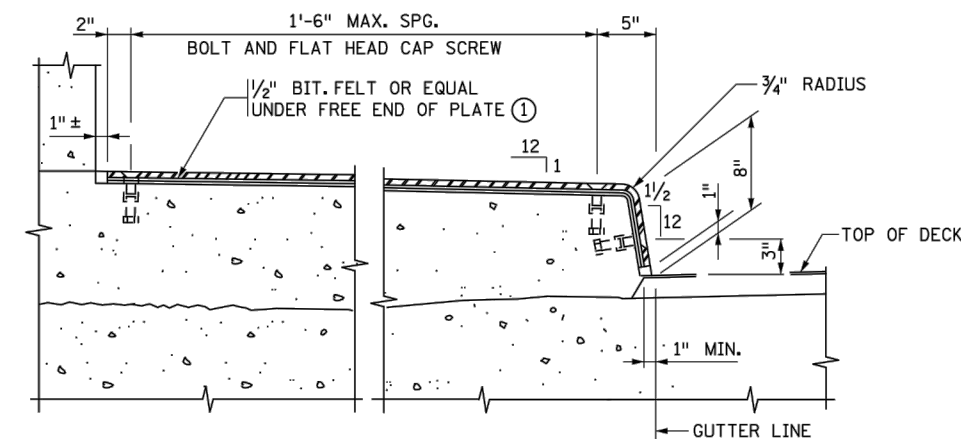


SIDEWALK COVER PLATE

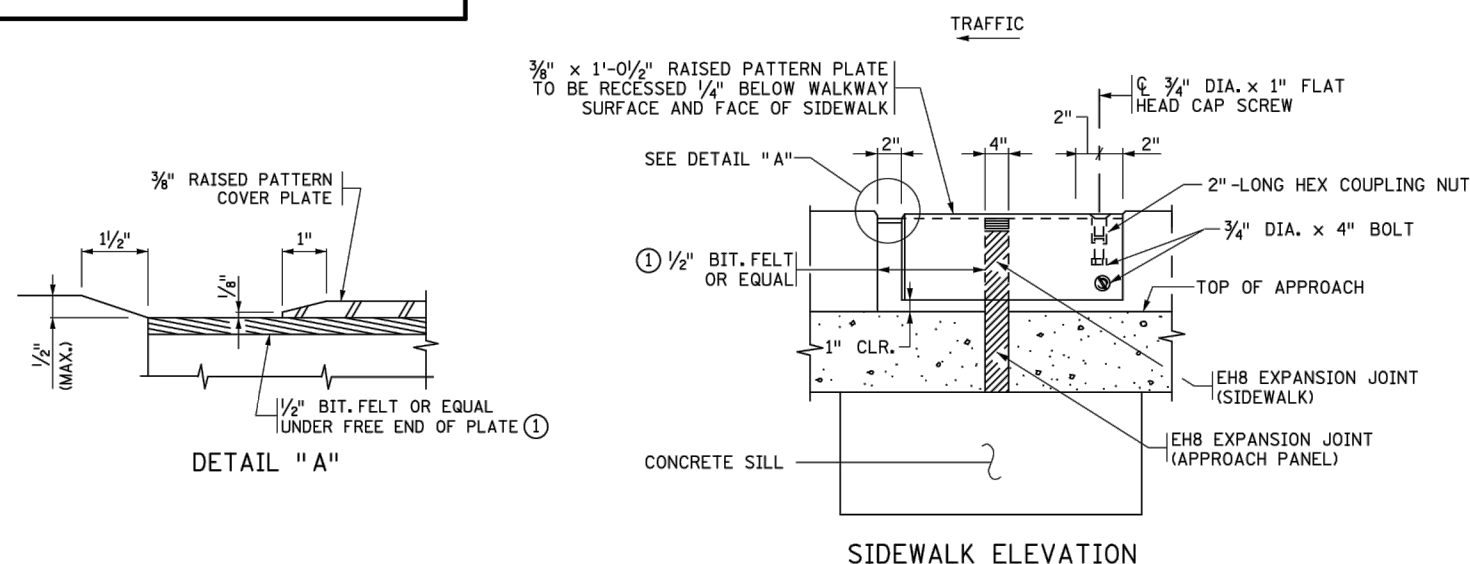
GENERAL NOTES:

- GALVANIZE STRUCTURAL STEEL AFTER FABRICATION PER Mn/DOT SPEC. 3394
- GALVANIZE FASTENERS PER Mn/DOT SPEC. 3392.
- STRUCTURAL STEEL SHALL COMPLY WITH Mn/DOT SPEC. 3306 OR Mn/DOT SPEC. 3309.
- SHOP DRAWING SUBMITTALS REQUIRED PER Mn/DOT SPEC. 2471.
- CAP SCREWS SHALL BE COUNTERSUNK 1/16" BELOW TOP OF PLATE.
- FURNISHING AND INSTALLING SIDEWALK COVER PLATE IS INCIDENTAL.

- 1 USE LARGEST SINGLE PIECE POSSIBLE. USE OF SMALL PIECES OR SCRAPS SECURED TOGETHER IS PROHIBITED.



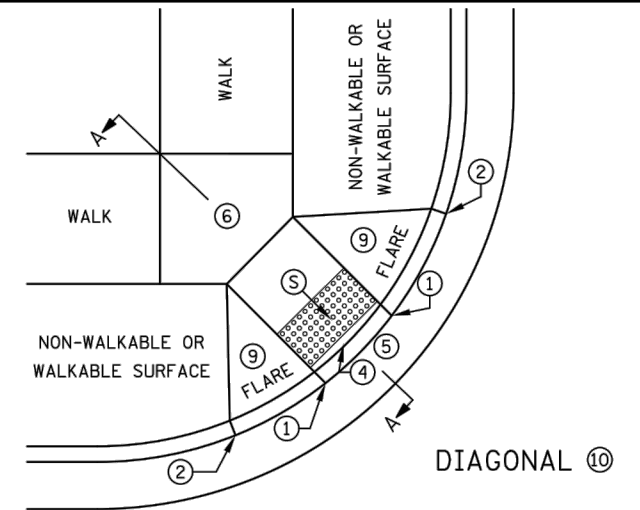
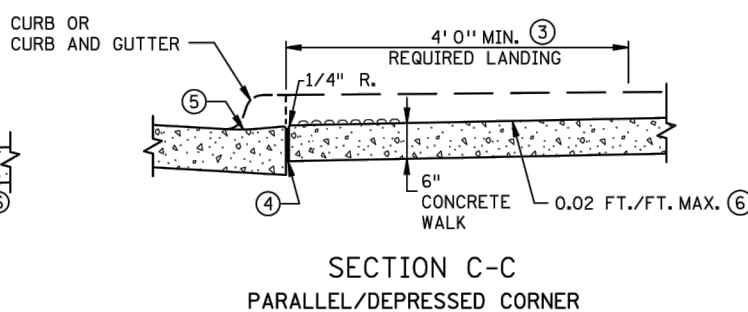
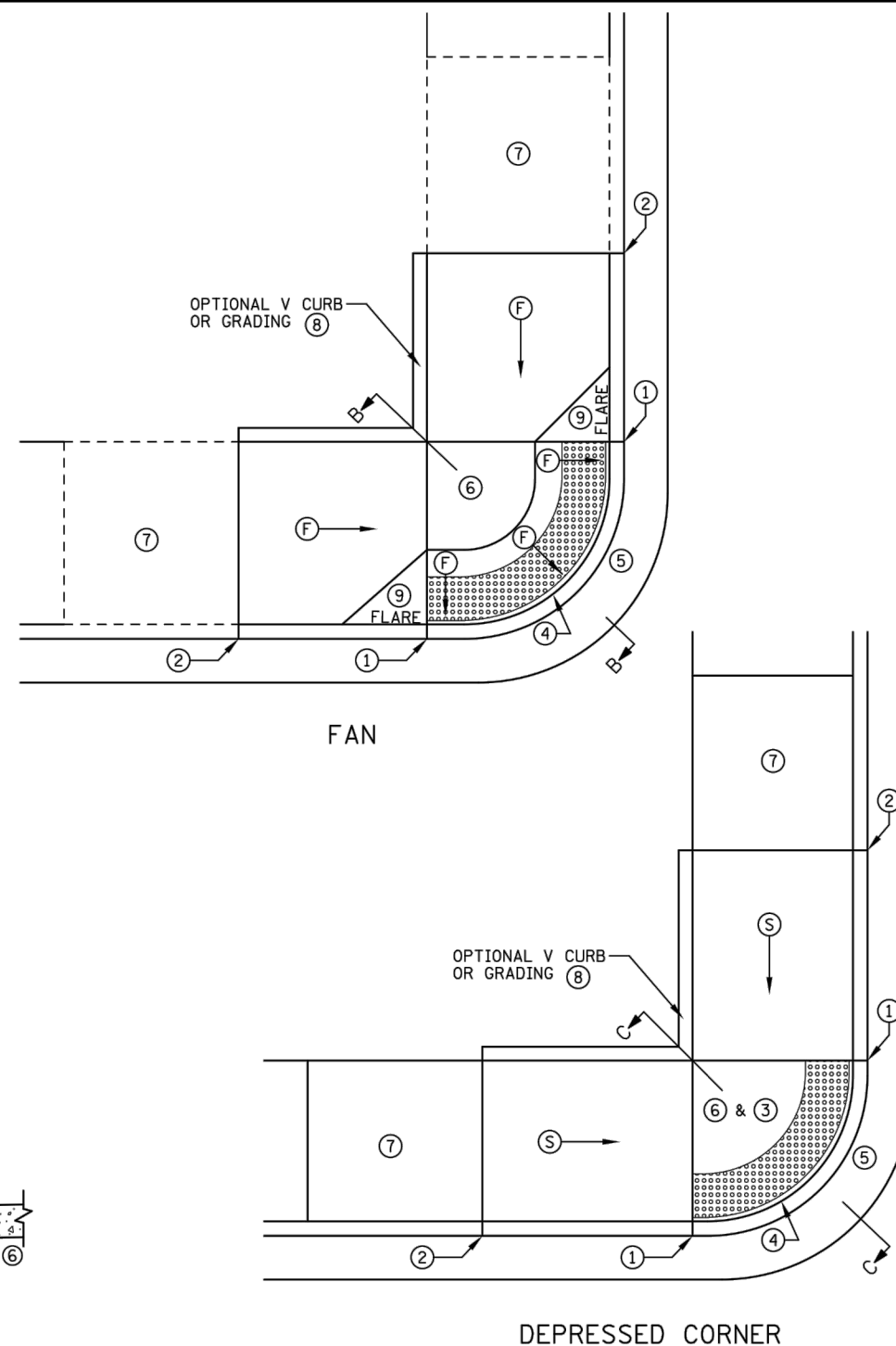
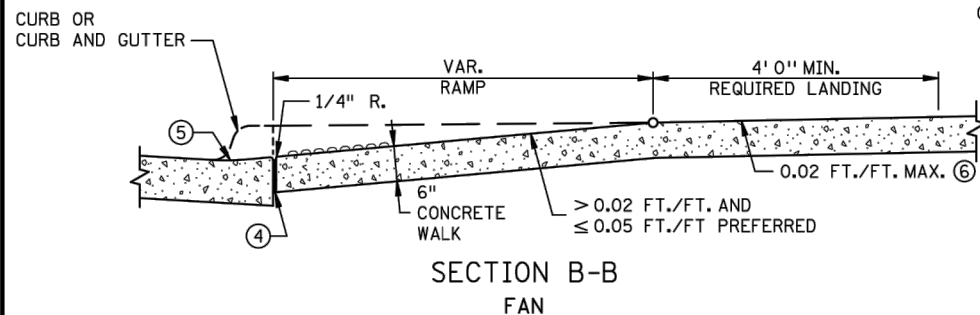
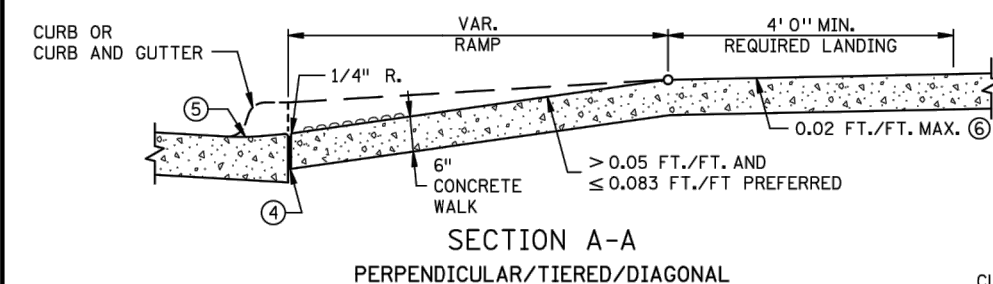
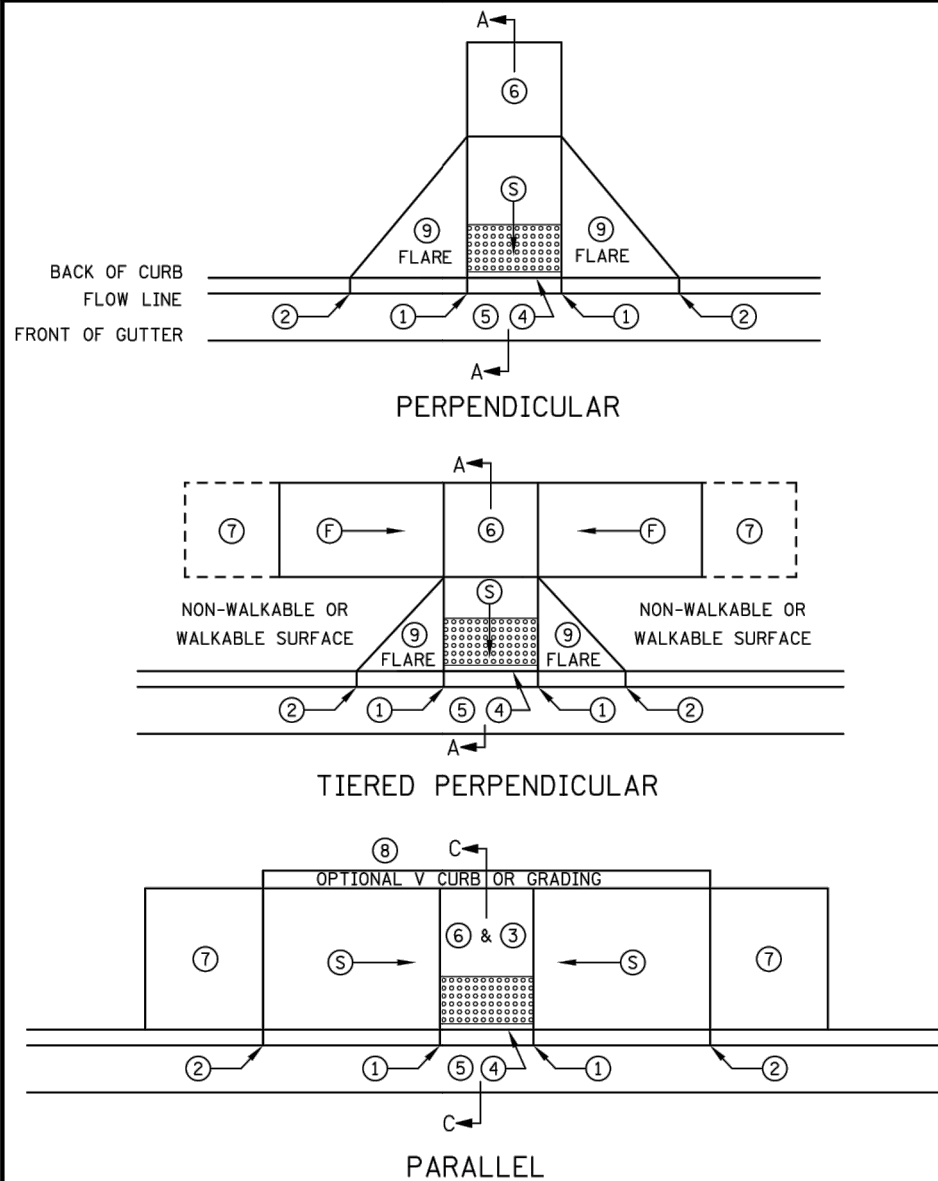
SECTION THROUGH SIDEWALK



STANDARD PLAN SHEET NO. 5-297.229	TITLE: BRIDGE APPROACH PANEL JOINT DETAILS
STANDARD APPROVED: DECEMBER 20, 2011	
STATE PROJ. NO.	(TH) SHEET NO. OF SHEETS

REVISION DATE
3-22-2013

Sep. 22 2015 12:28 pm v:\3400_ADC\CAD\OVERALL\PLAN SHEETS\CIVIL DETAILS\WO-CIV-DTL.dwg By: kncclement



NOTES:

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL.

TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS MAY BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 5 WHEN LANDINGS ARE CAST SEPARATELY.

ALL SLOPES ARE ABSOLUTE, RATHER THAN RELATIVE TO SIDEWALK/ROADWAY GRADES.

TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MINIMUM OF 24" IN THE PATH OF TRAVEL. SHARED USE PATHS SHALL HAVE DETECTABLE WARNING ACROSS THE ENTIRE WIDTH OF PATH WHEN THE PATH CROSSES A ROAD.

SEE STANDARD PLATE 7038 AND SHEET 4 OF 5 FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.

① 0" CURB HEIGHT.

② FULL CURB HEIGHT.

③ DETECTABLE WARNINGS MAY BE PART OF 4' X 4' LANDING AREA IF IT IS NOT FEASIBLE TO CONSTRUCT THE LANDING OUTSIDE OF THE DETECTABLE WARNING AREA.

④ 1/2" PREFORMED JOINT FILLER MATERIAL AASHTO M 213. JOINT FILLER SHALL BE PLACED FLUSH WITH THE BACK OF CURB AND ADJACENT SIDEWALK. JOINT SHALL BE FREE OF DEBRIS. RECTANGULAR DETECTABLE WARNINGS SHALL BE SETBACK 3" FROM THE BACK OF CURB. RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB.

⑤ SEE PEDESTRIAN ACCESS ROUTE CURB AND GUTTER DETAIL FOR INFORMATION ON CONSTRUCTING CURB AND GUTTER AT CURB OPENINGS. SEE SHEET NO. 3 OF 5.

⑥ 4' BY 4' MIN. LANDING WITH MAX. 2.0% SLOPE IN ALL DIRECTIONS.

⑦ IF LONGITUDINAL SLOPE IS GREATER THAN 5.0%, 4' X 4' MIN. LANDING WITH MAX 2.0% SLOPE IN ALL DIRECTIONS REQUIRED.

⑧ V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. SEE SHEET 5 OF 5.

⑨ SEE SHEET 4 OF 5, TYPICAL SIDE TREATMENT OPTIONS, FOR DETAILS ON FLARES AND RETURNED CURBS.

⑩ DIAGONAL RAMPS SHOULD ONLY BE USED AFTER ALL OTHER CURB RAMP TYPES HAVE BEEN EVALUATED AND DEEMED IMPRACTICAL.

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

⑤ INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%

⑥ INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%

REVISION:
APPROVED: 8-6-2014
OPERATIONS ENGINEER

MINNESOTA DEPARTMENT OF TRANSPORTATION

REVISOR:

APPROVED: 8-6-2014

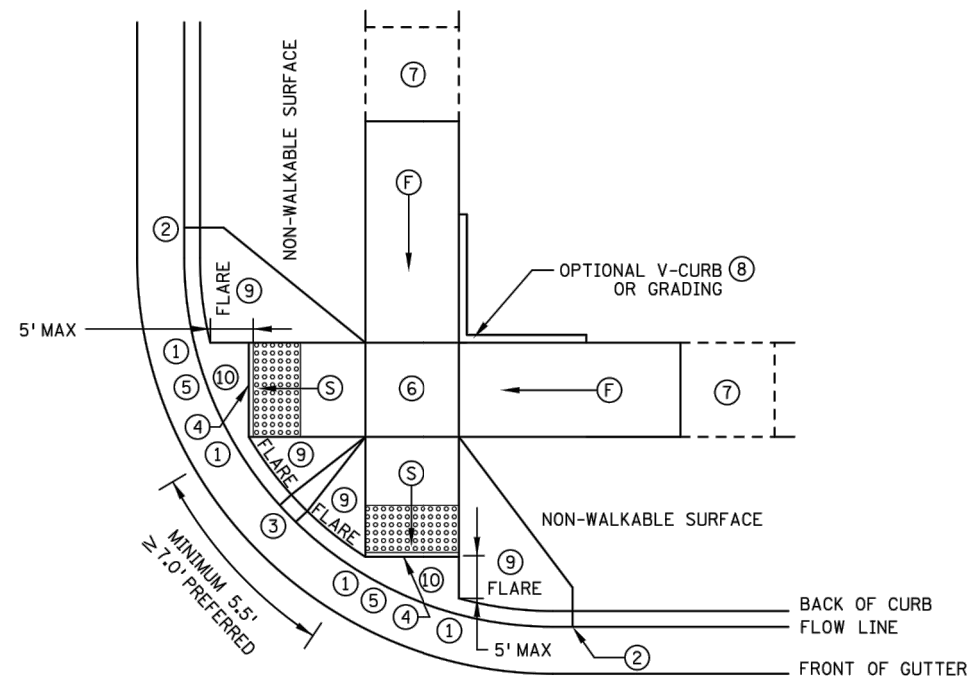
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PEDESTRIAN CURB RAMP DETAILS

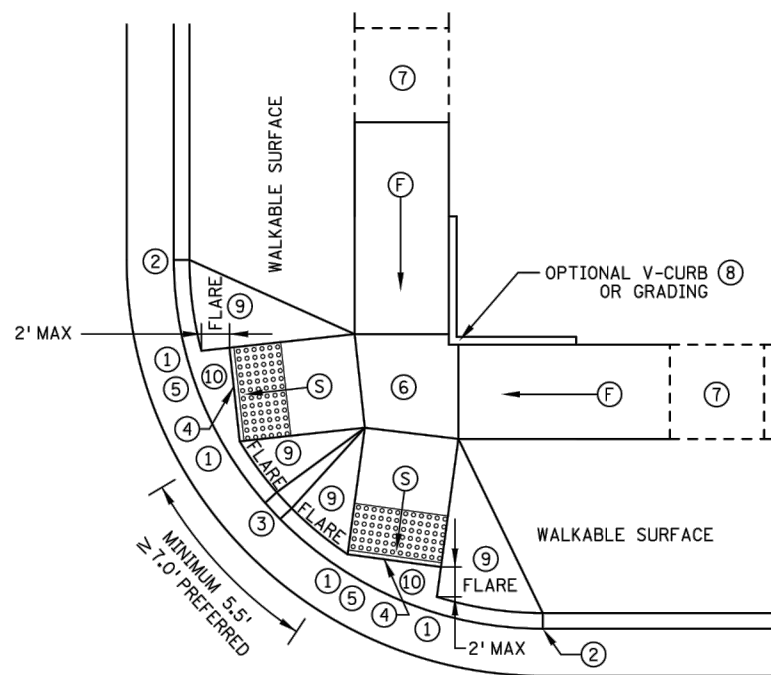
STANDARD PLAN 5-297.250

1 OF 5

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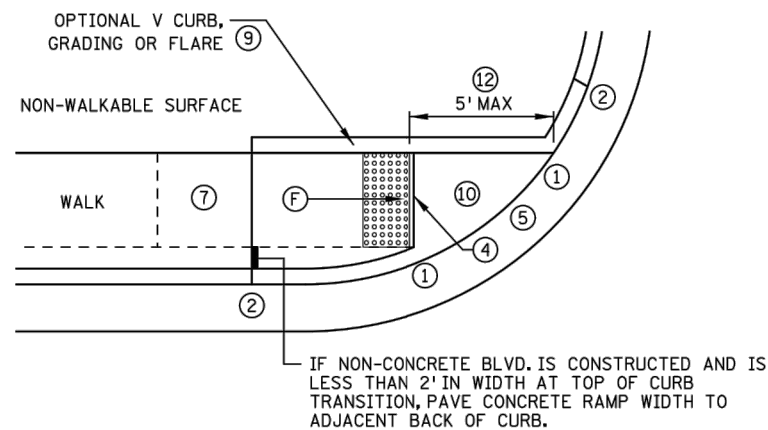


ADJACENT TO NON-WALKABLE SURFACE

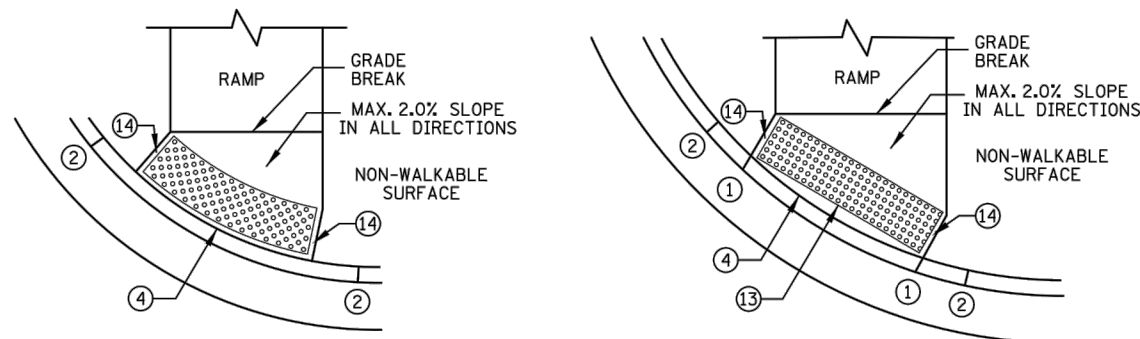


ADJACENT TO WALKABLE SURFACE

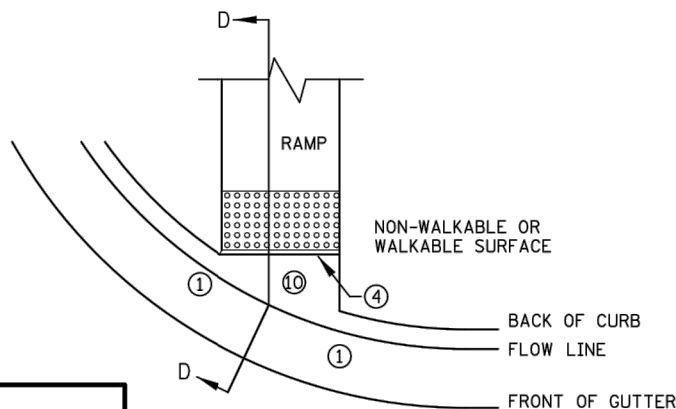
COMBINED DIRECTIONAL 15



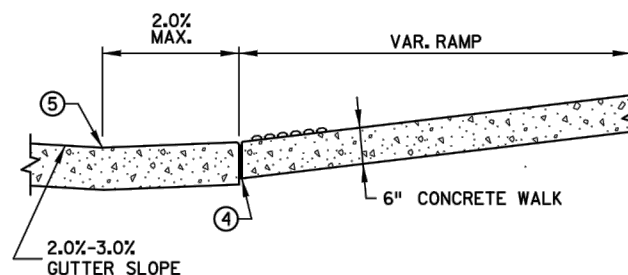
ONE-WAY DIRECTIONAL



DETECTABLE WARNING PLACEMENT WHEN SETBACK CRITERIA IS EXCEEDED



CURB FOR DIRECTIONAL RAMPS 11



SECTION D-D

NOTES:

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL.

TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS MAY BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 5 WHEN LANDINGS ARE CAST SEPARATELY.

ALL SLOPES ARE ABSOLUTE, RATHER THAN RELATIVE TO SIDEWALK/ROADWAY GRADES.

TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MINIMUM OF 24" IN THE PATH OF TRAVEL. SHARED USE PATHS SHALL HAVE DETECTABLE WARNING ACROSS THE ENTIRE WIDTH OF PATH WHEN THE PATH CROSSES A ROAD.

SEE STANDARD PLATE 7038 AND SHEET 4 OF 5 FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.

- 1 0" CURB HEIGHT.
- 2 FULL CURB HEIGHT.
- 3 3" MINIMUM CURB HEIGHT, 4" PREFERRED.
- 4 1/2" PREFORMED JOINT FILLER MATERIAL AASHTO M 213. JOINT FILLER SHALL BE PLACED FLUSH WITH THE BACK OF CURB AND ADJACENT SIDEWALK. JOINT SHALL BE FREE OF DEBRIS. RECTANGULAR DETECTABLE WARNINGS SHALL BE SETBACK 3" FROM THE BACK OF CURB. RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MIN. TO 6" MAX. FROM THE BACK OF CURB.
- 5 SEE PEDESTRIAN ACCESS ROUTE CURB AND GUTTER DETAIL FOR INFORMATION ON CONSTRUCTING CURB AND GUTTER AT CURB OPENINGS. SEE SHEET NO. 3 OF 5.
- 6 4' BY 4' MIN. LANDING WITH MAX. 2.0% SLOPE IN ALL DIRECTIONS.
- 7 IF LONGITUDINAL SLOPE IS GREATER THAN 5.0%, 4' X 4' MIN. LANDING WITH MAX 2.0% SLOPE IN ALL DIRECTIONS REQUIRED.
- 8 V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS.
- 9 SEE SHEET 4 OF 5, TYPICAL SIDE TREATMENT OPTIONS, FOR DETAILS ON FLARES AND RETURNED CURBS.
- 10 MAX. 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK AND DRAIN TO FLOW LINE. SHALL BE CONSTRUCTED INTEGRAL WITH CURB AND GUTTER.
- 11 TO BE USED FOR ALL DIRECTIONAL RAMPS.
- 12 PLACE DOMES AT THE BACK OF CURB WHEN ALLOWABLE SETBACK CRITERIA IS EXCEEDED.
- 13 RECTANGULAR DETECTABLE WARNINGS MAY BE SETBACK 9" FROM THE BACK OF CURB WITH CORNERS SET 3" FROM BACK OF CURB. IF 9" SETBACK IS EXCEEDED USE RADIAL DETECTABLE WARNINGS.
- 14 WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE BACK OF CURB. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
- 15 FRONT EDGE OF DETECTABLE WARNING SHALL BE SET BACK 2' MAXIMUM WHEN ADJACENT TO WALKABLE SURFACE, AND 5' MAXIMUM WHEN ADJACENT TO NON-WALKABLE SURFACE WITH ONE CORNER SET 3" FROM BACK OF CURB. WHETHER A SURFACE IS WALKABLE OR NOT SHALL BE DETERMINED BY THE ENGINEER

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

- (S) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%
- (F) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%

REVISION:
APPROVED: 8-6-2014
OPERATIONS ENGINEER

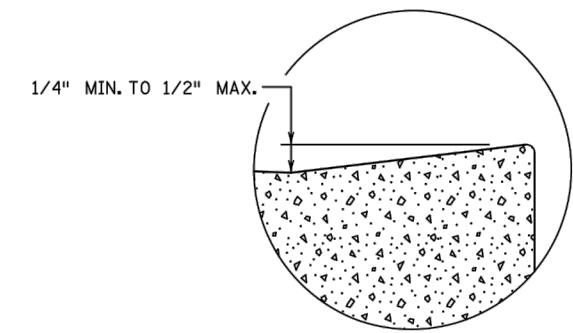
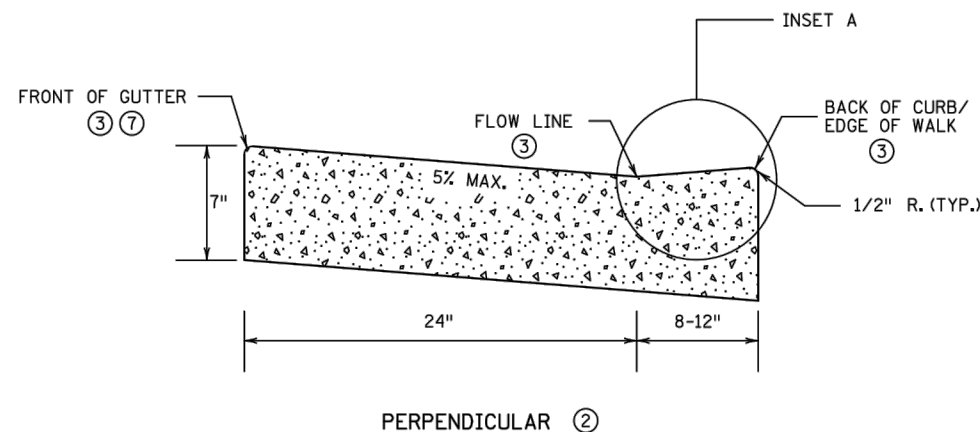
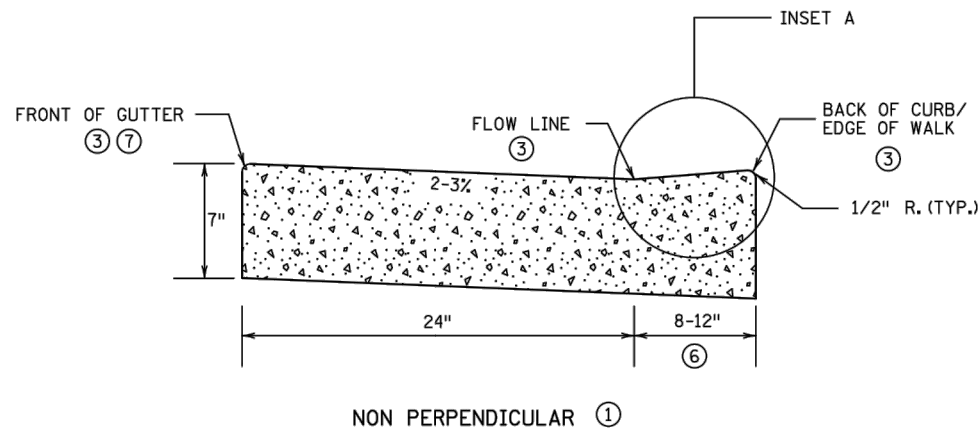
MINNESOTA DEPARTMENT OF TRANSPORTATION
REVISED:
APPROVED: 8-6-2014
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

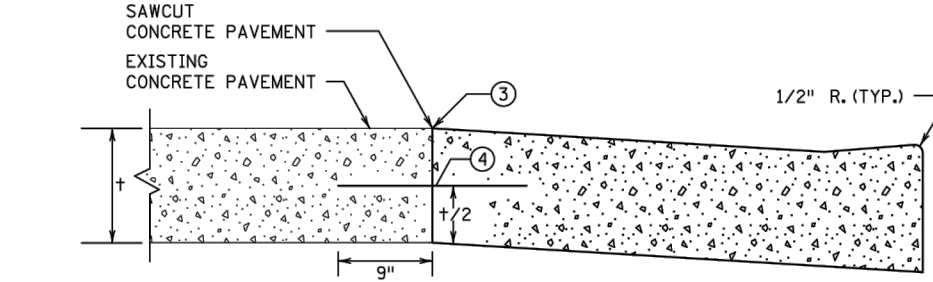
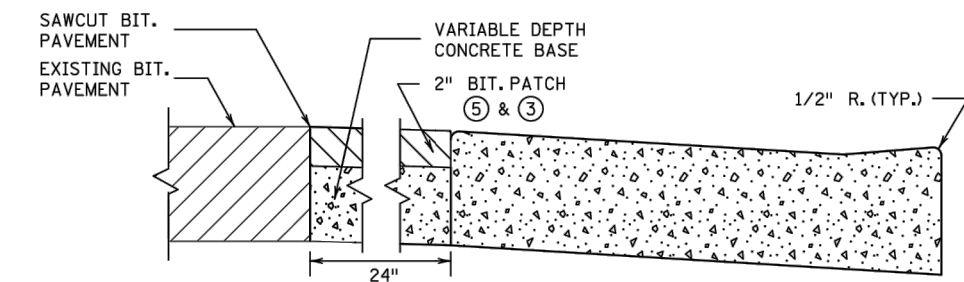
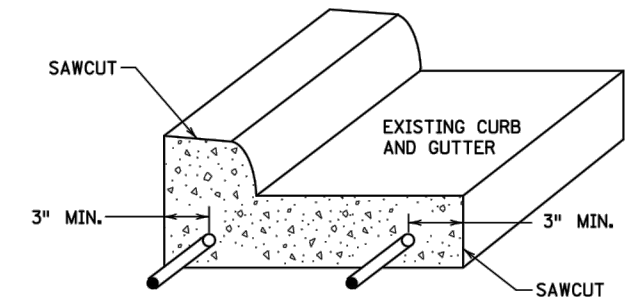
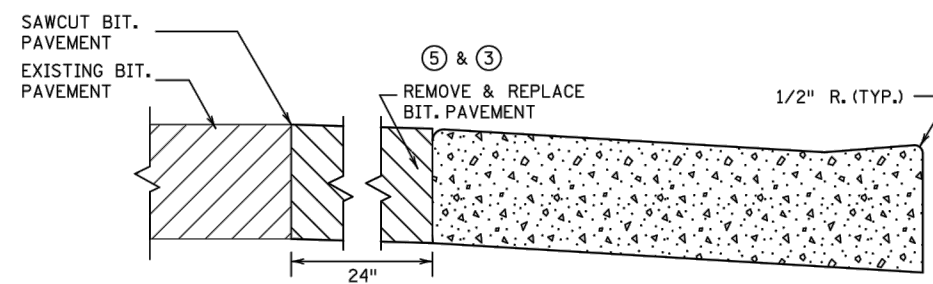
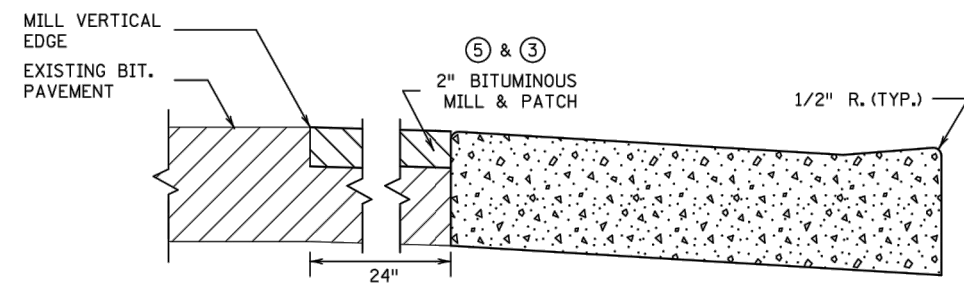
STANDARD PLAN 5-297.250

2 OF 5

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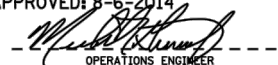


PEDESTRIAN ACCESS ROUTE
CURB & GUTTER DETAIL



PAVEMENT TREATMENT OPTIONS
IN FRONT OF CURB & GUTTER
FOR USE ON CURB RAMP RETROFITS

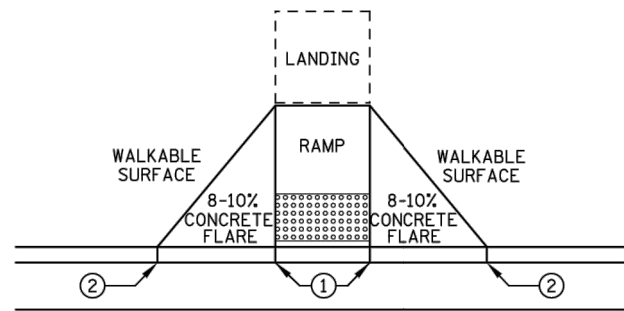
- NOTES:**
POSITIVE FLOW LINE DRAINAGE SHALL BE MAINTAINED THROUGH THE PEDESTRIAN ACCESS ROUTE (PAR) AT A 2% MAXIMUM.
NO PONDING SHALL BE PRESENT IN THE PAR.
ANY VERTICAL LIP THAT OCCURS AT THE FLOW LINE SHALL NOT BE GREATER THAN 1/4 INCH.
- FOR USE AT CURB CUTS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED NON PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: FANS, DEPRESSED CORNERS, & ONE WAY AND COMBINED DIRECTIONALS.
 - FOR USE AT CURB CUTS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: PERPENDICULAR, TIERED PERPENDICULAR, PARALLEL, AND DIAGONAL RAMPS.
 - THERE SHALL BE NO VERTICAL DISCONTINUITIES GREATER THAN 1/4".
 - DRILL AND GROUT NO. 4 EPOXY-COATED 18" LONG TIE BARS AT 30" CENTER TO CENTER INTO EXISTING CONCRETE PAVEMENT.
 - ELEVATION CHANGE TAKES PLACE FROM THE EXISTING TO NEW FRONT OF GUTTER. PATCH IS USED TO MATCH THE NEW GUTTER FACE INTO THE EXISTING ROADWAY.
 - VARIABLE WIDTH FOR DIRECTIONAL CURB APPLICATIONS.
 - TOP FRONT OF GUTTER SHALL BE CONSTRUCTED FLUSH WITH PROPOSED ADJACENT PAVEMENT ELEVATION. PAR GUTTER SHALL NOT BE OVERLAID.
 - WHERE PLAN SPECIFIES, DRILL AND GROUT 2 - NO. 4 X 12" LONG REINFORCEMENT BARS (EPOXY COATED).

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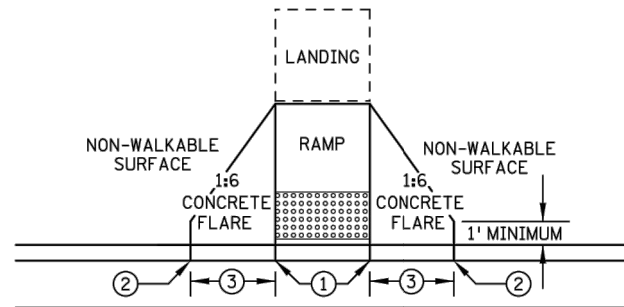
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PEDESTRIAN CURB RAMP DETAILS	
STANDARD PLAN 5-297.250	3 OF 5

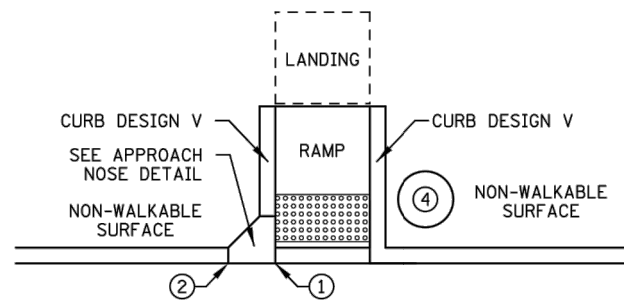
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PAVED FLARES
ADJACENT TO WALKABLE SURFACE

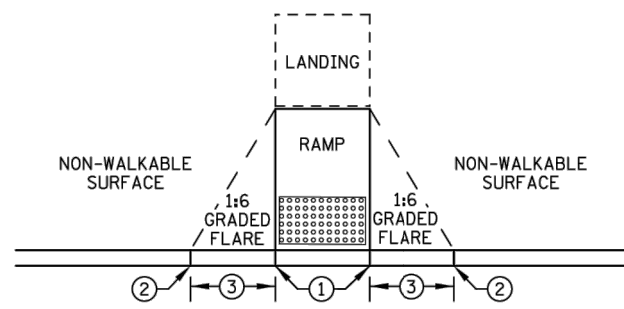


PAVED FLARES
ADJACENT TO NON-WALKABLE SURFACE



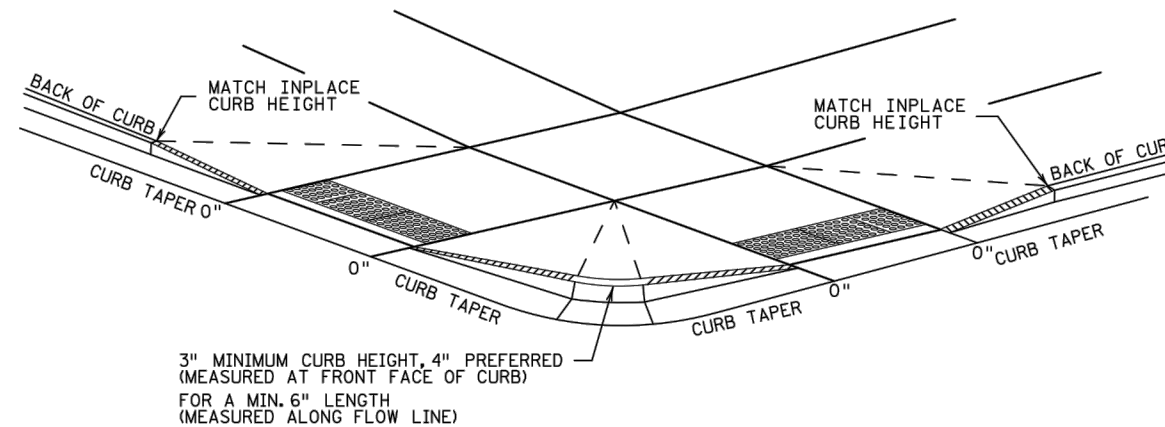
DIRECTION OF TRAFFIC

RETURNED CURB

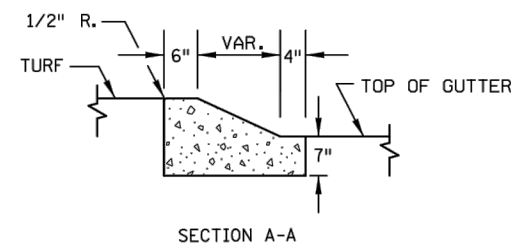
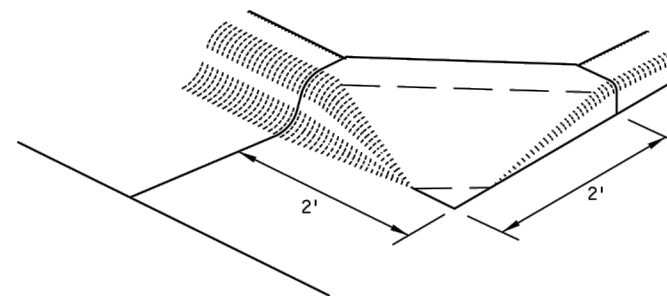


GRADED FLARES

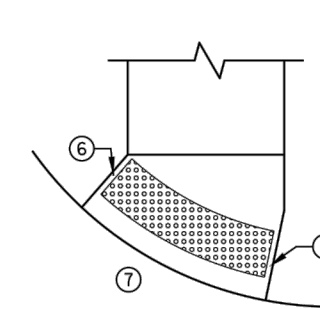
TYPICAL SIDE TREATMENT OPTIONS ⑤



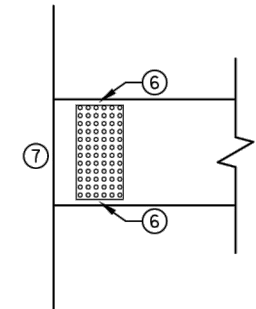
DETECTABLE EDGE WITH
CURB AND GUTTER ⑧



APPROACH NOSE DETAIL
FOR DOWNSTREAM SIDE OF TRAFFIC



RADIAL DETECTABLE WARNING



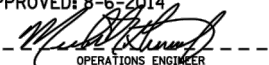
RECTANGULAR DETECTABLE WARNING

DETECTABLE EDGE WITHOUT CURB AND GUTTER

NOTES:

SEE STANDARD PLATE 7038 AND THIS SHEET FOR ADDITIONAL DETAILS ON DETECTABLE WARNING. WHETHER A SURFACE IS WALKABLE OR NOT SHALL BE DETERMINED BY THE ENGINEER. CONCRETE FLARE LENGTHS ADJACENT TO NON-WALKABLE SURFACES SHOULD BE LESS THAN 8' LONG MEASURED ALONG THE RAMPS FROM THE BACK OF CURB.

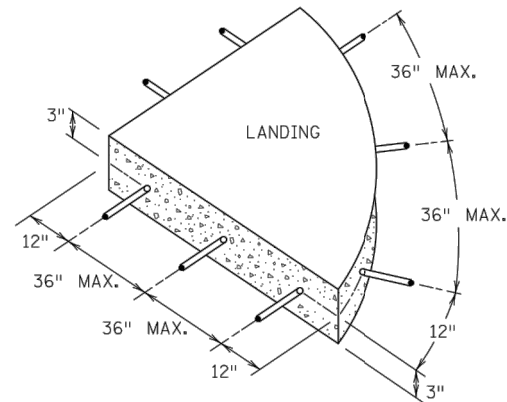
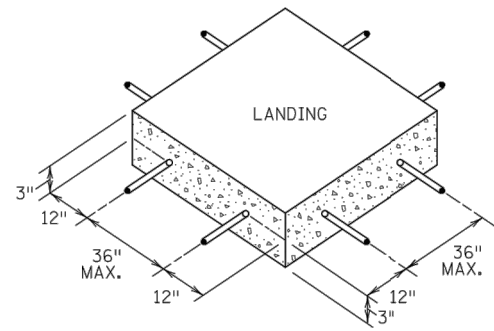
- ① 0" CURB HEIGHT.
- ② FULL CURB HEIGHT.
- ③ 2' - 3' FLARE.
- ④ IMMOVABLE OBJECT OR OBSTRUCTION.
- ⑤ SIDE TREATMENTS ARE APPLICABLE TO ALL RAMP TYPES AND SHOULD BE IMPLEMENTED AS NEEDED ON ALL RAMPS AS FIELD CONDITIONS DICTATE. THE ENGINEER SHALL DETERMINE THE RAMP SIDE TREATMENTS BASED ON MAINTENANCE OF BOTH ROADWAY AND SIDEWALK, ADJACENT PROPERTY CONSIDERATIONS, AND MITIGATING CONSTRUCTION IMPACTS.
- ⑥ WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE EDGE OF ROADWAY. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
- ⑦ IF NO CURB AND GUTTER IS PLACED IN RURAL SECTIONS, DETECTABLE WARNINGS SHALL BE PLACED 1' FROM THE EDGE OF ROADWAY TO PROVIDE VISUAL CONTRAST.
- ⑧ ALL CONSTRUCTED CURBS MUST HAVE A CONTINUOUS DETECTABLE EDGE FOR THE VISUALLY IMPAIRED. THIS DETECTABLE EDGE REQUIRES DETECTABLE WARNINGS WHEREVER THERE IS ZERO-INCH HIGH CURB. CURB TAPERS ARE CONSIDERED A DETECTABLE EDGE WHEN THE TAPER STARTS WITHIN 3" OF THE EDGE OF THE DETECTABLE WARNINGS AND UNIFORMLY RISES TO A 3-INCH MINIMUM CURB HEIGHT. ANY CURB NOT PART OF A CURB TAPER AND LESS THAN 3 INCHES IN HEIGHT IS NOT CONSIDERED A DETECTABLE EDGE AND THEREFORE IS NOT COMPLIANT WITH ACCESSIBILITY STANDARDS.

REVISION:
APPROVED: 8-6-2014

OPERATIONS ENGINEER

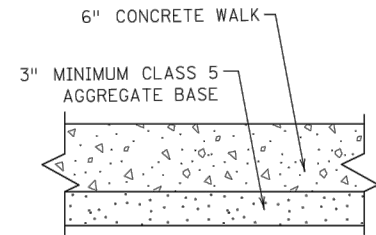
MINNESOTA DEPARTMENT OF TRANSPORTATION	REVISED:	APPROVED:
	8-6-2014	
STATE DESIGN ENGINEER		

PEDESTRIAN CURB RAMP DETAILS
STANDARD PLAN 5-297.250
4 OF 5

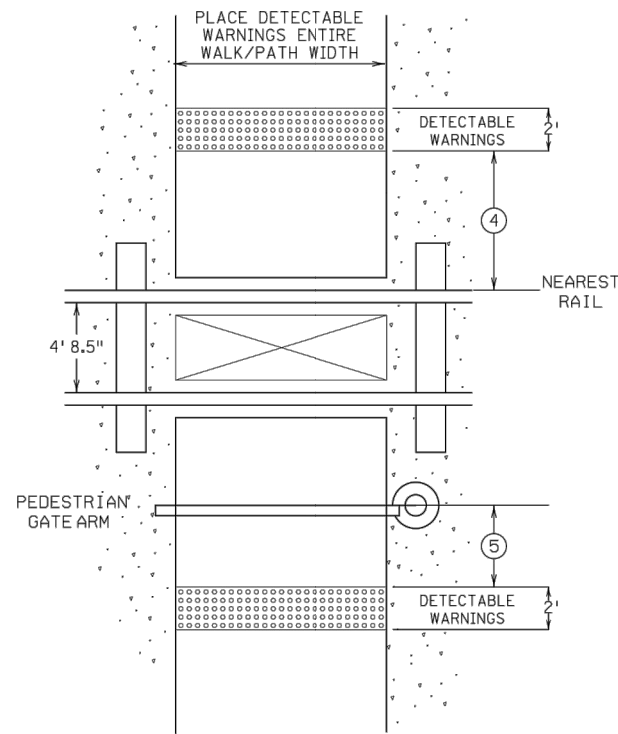
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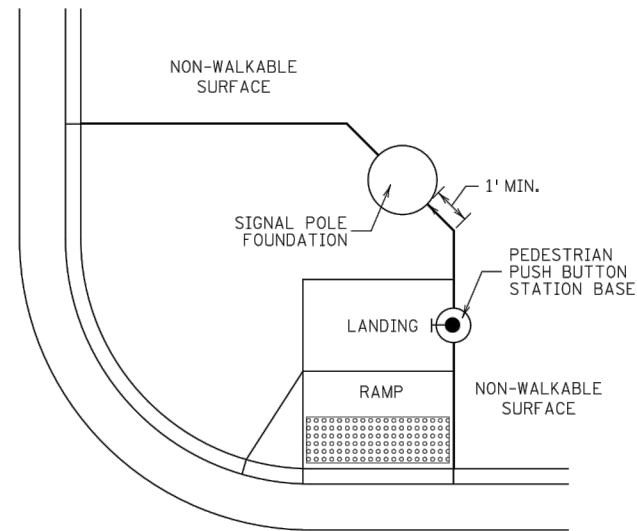
SIDEWALK REINFORCEMENT ⑥ ⑦



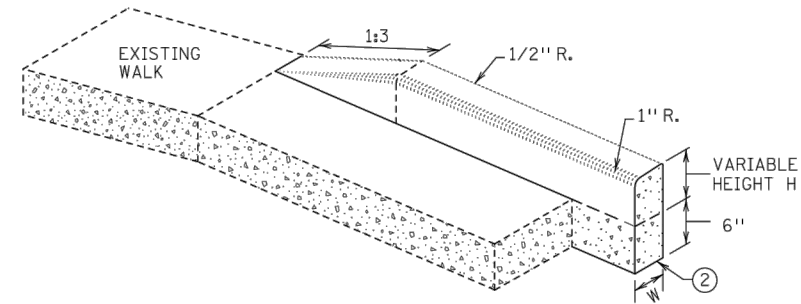
TYPICAL SIDEWALK SECTION
WITHIN INTERSECTION CORNER



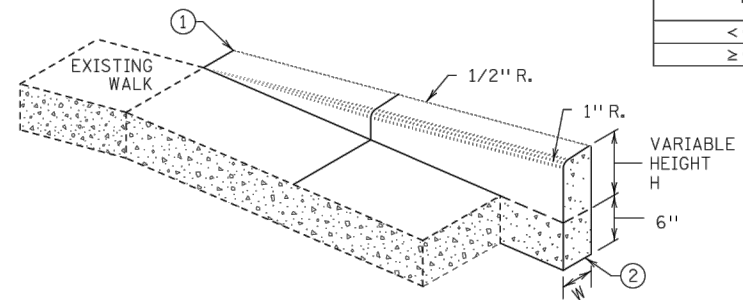
RAILROAD CROSSING
PLAN VIEW



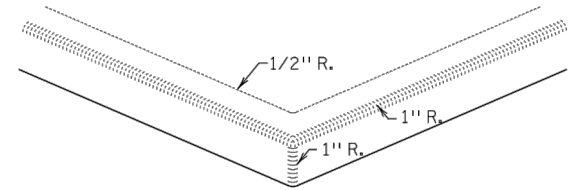
CONCRETE WALK EDGES ADJACENT
TO CONCRETE STRUCTURES



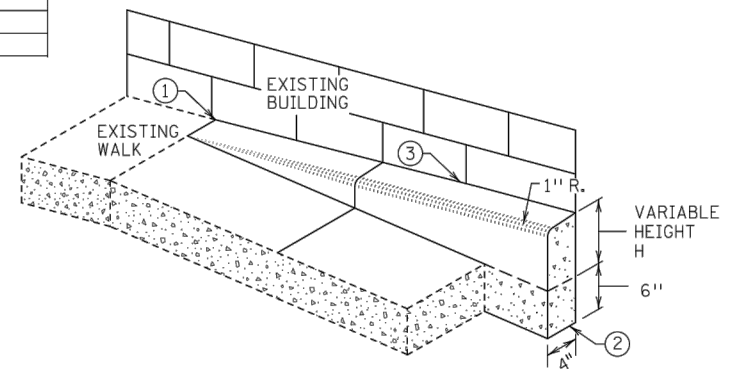
V CURB ADJACENT TO LANDSCAPE
CURB WITHIN SIDEWALK LIMITS



V CURB ADJACENT TO LANDSCAPE
CURB OUTSIDE SIDEWALK LIMITS



V CURB INTERSECTION



V CURB ADJACENT TO BUILDING
OR BARRIER

NOTES:

- ALL V CURB CONTRACTION JOINTS SHALL MATCH CONCRETE WALK JOINTS.
- WHERE RIGHT-OF-WAY ALLOWS, USE OF V CURB SHOULD BE MINIMIZED. GRADING ADJACENT TURF OR SLOPING ADJACENT PAVEMENT IS PREFERRED.
- V CURB SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS.
- V CURB NEXT TO BUILDING SHALL BE A 4" WIDTH AND SHALL MATCH PREVIOUS TOP OF SIDEWALK ELEVATIONS.
- ① END TAPERS AT TRANSITION SECTION SHALL MATCH INPLACE SIDEWALK GRADES.
- ② ALL V CURB SHALL MATCH BOTTOM OF ADJACENT WALK.
- ③ EDGE BETWEEN NEW V CURB AND INPLACE STRUCTURE SHALL BE SEALED AND BOND BREAKER SHALL BE USED BETWEEN EXISTING STRUCTURE AND PLACED V-CURB.
- ④ NEAREST EDGE OF DETECTABLE WARNING SURFACES SHALL BE PLACED 12' MINIMUM TO 15' MAXIMUM FROM THE NEAREST RAIL. FOR SKEWED RAILWAYS IN NO INSTANCE SHALL THE DETECTABLE WARNING BE CLOSER THAN 12' MEASURED PERPENDICULAR TO THE NEAREST RAIL.
- ⑤ WHEN PEDESTRIAN GATES ARE PROVIDED, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE SIDE OF THE GATES OPPOSITE THE RAIL, 2' FROM THE APPROACHING SIDE OF THE GATE ARM.
- ⑥ WHEN PLAN SPECIFIES, DRILL AND GROUT NO. 4 12" LONG REINFORCEMENT BARS AT 36" MAX. CENTER TO CENTER (EPOXY COATED).
- ⑦ TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS MAY BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON THIS SHEET WHEN LANDINGS ARE CAST SEPARATELY.

REVISION:
APPROVED: 2-9-2015
OPERATIONS ENGINEER

MINNESOTA DEPARTMENT OF TRANSPORTATION

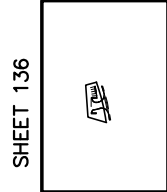
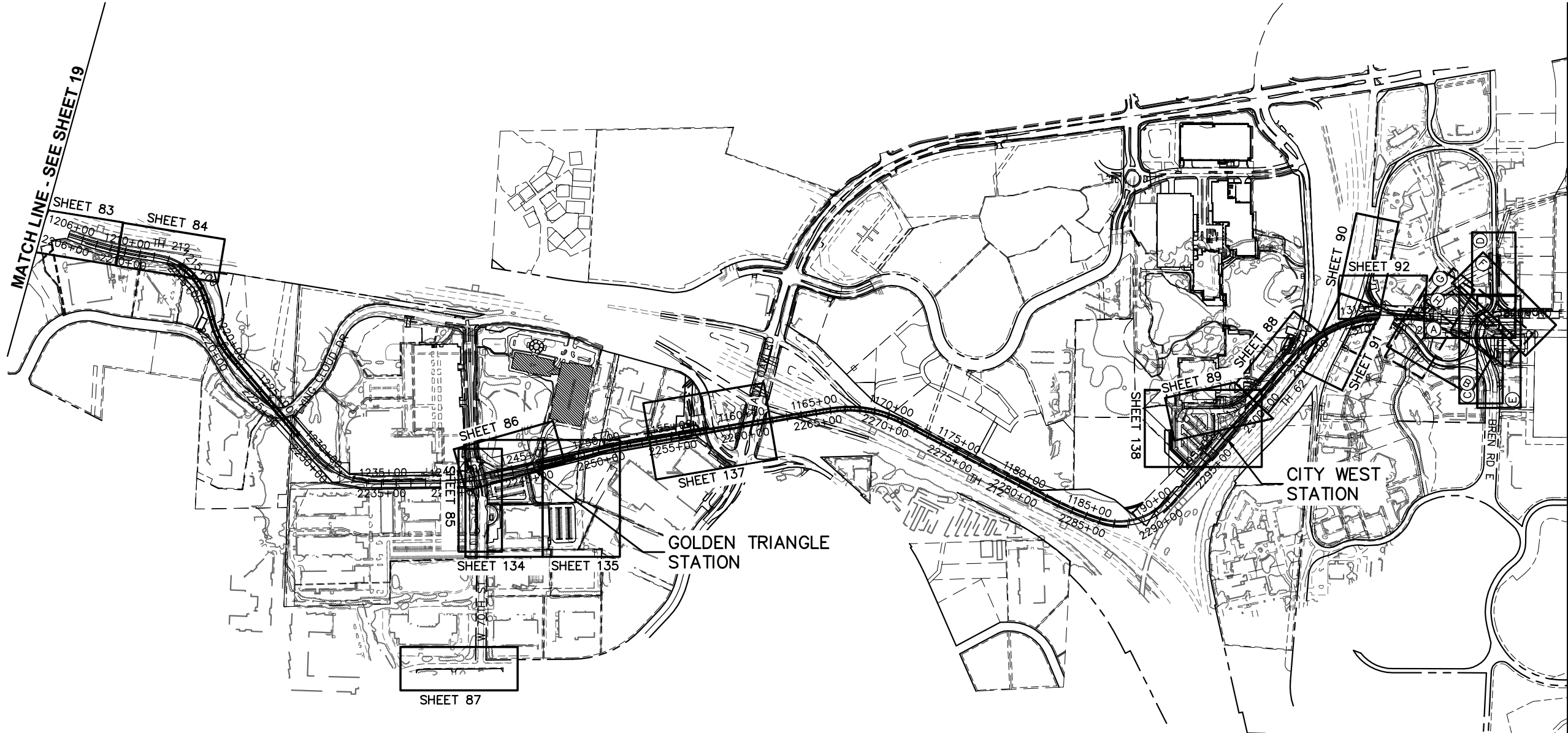
REVISOR:

APPROVED: 2-9-2015

STATE DESIGN ENGINEER

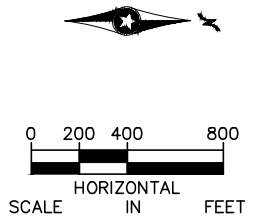
PEDESTRIAN CURB RAMP DETAILS
STANDARD PLAN 5-297.250
5 OF 5

Sep. 22 2015 12:30 pm v:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-LAY.dwg By: knclement



INDEX	DESCRIPTION
A SHEET 93	RED CIRCLE DRIVE STA. 208+50 TO STA. 213+01
B SHEET 94	YELLOW CIRCLE DRIVE
C SHEET 95	YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE STA. 221+00 TO STA. 227+50
D SHEET 96	YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE STA. 227+50 TO STA. 233+00
E SHEET 97	BREN ROAD EAST
F SHEET 98	BREN ROAD EAST TO RED CIRCLE DRIVE
G SHEET 119	TRAIL 1
H SHEET 120	TRAIL 2

MATCH LINE - SEE SHEET 21



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

AECOM

SRH
Consulting Group, Inc.

METROPOLITAN
COUNCIL

SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 2
CIVIL
PLAN SHEET LAYOUT
SHEET 2

DISCIPLINE: **CIVIL**

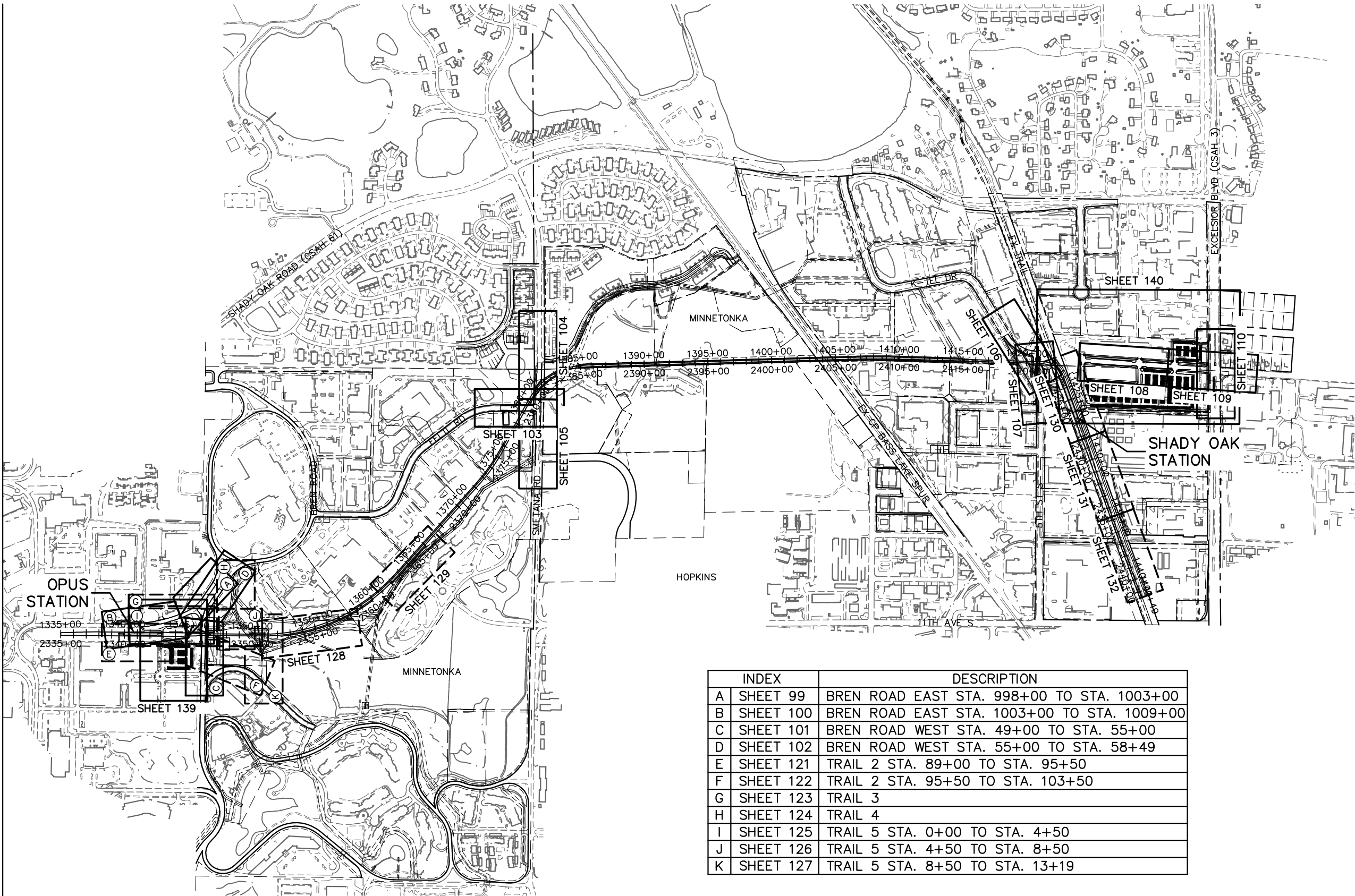
SHEET NAME: **W2-CIV-LAY-001**

60% SUBMISSION - 09/28/15

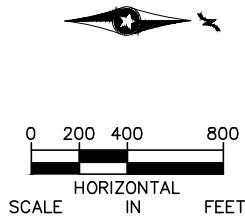
SHEET
20
OF
140

Sep. 22 2015 12:31 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-LAY.dwg By: kmcolement

MATCH LINE - SEE SHEET 20



INDEX	DESCRIPTION
A SHEET 99	BREN ROAD EAST STA. 998+00 TO STA. 1003+00
B SHEET 100	BREN ROAD EAST STA. 1003+00 TO STA. 1009+00
C SHEET 101	BREN ROAD WEST STA. 49+00 TO STA. 55+00
D SHEET 102	BREN ROAD WEST STA. 55+00 TO STA. 58+49
E SHEET 121	TRAIL 2 STA. 89+00 TO STA. 95+50
F SHEET 122	TRAIL 2 STA. 95+50 TO STA. 103+50
G SHEET 123	TRAIL 3
H SHEET 124	TRAIL 4
I SHEET 125	TRAIL 5 STA. 0+00 TO STA. 4+50
J SHEET 126	TRAIL 5 STA. 4+50 TO STA. 8+50
K SHEET 127	TRAIL 5 STA. 8+50 TO STA. 13+19



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



CIVIL WEST - VOLUME 2
CIVIL
PLAN SHEET LAYOUT
SHEET 3

DISCIPLINE:
CIVIL

SHEET NAME:
W3-CIV-LAY-001

60% SUBMISSION - 09/28/15

SHEET
21
OF
140

Sep. 22 2015 12:31 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-ALG.dwg By: kmcdlement

ALIGNMENT DATA TECHNOLOGY DR EB 1														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L1	435+00.00	435+96.65							96.65	124833.79	483606.45	124865.83	483697.64	70°38'13"
C1	435+96.65	441+25.03	438+88.52		60°32'50"	11°27'33.03"	500.00	291.87	528.37	124865.83	483697.64	124770.41	484192.65	70°38'13" 131°11'03"
L2	441+25.03	442+32.51							107.48	124770.41	484192.65	124699.64	484273.54	131°11'03"
C2	442+32.51	450+23.18	447+24.09		86°07'32"	10°53'33.84"	526.00	491.58	790.67	124699.64	484273.54	124723.18	484991.46	131°11'03" 45°03'31"
L3	450+23.18	454+51.16							427.99	124723.18	484991.46	125025.51	485294.40	45°03'31"

ALIGNMENT DATA TECHNOLOGY DR WB 1														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L4	235+00.00	235+89.71							89.71	124856.18	483598.52	124886.13	483683.08	70°29'49"
C3	235+89.71	237+99.33	236+95.92		22°44'48"	10°51'05.30"	528.00	106.21	209.62	124886.13	483683.08	124915.58	483889.24	70°29'49" 93°14'37"
C4	237+99.33	241+24.48	239+65.87		30°32'26"	9°23'33.90"	610.00	166.54	325.15	124915.58	483889.24	124813.55	484193.92	93°14'37" 123°47'03"
L5	241+24.48	243+59.90							235.41	124813.55	484193.92	124682.64	484389.58	123°47'03"
C5	243+59.90	245+27.99	244+45.27		24°41'40"	14°41'28.41"	390.00	85.37	168.09	124682.64	484389.58	124621.68	484544.84	123°47'03" 99°05'24"
C6	245+27.99	249+80.32	247+72.53		53°59'37"	11°56'11.83"	480.00	244.54	452.34	124621.68	484544.84	124755.67	484959.51	99°05'24" 45°05'47"
L6	249+80.32	254+06.40							426.08	124755.67	484959.51	125056.45	485261.30	45°05'47"

ALIGNMENT DATA BUS RAMP														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C7	10+00.00	10+80.07	10+40.04		3°08'55"	3°55'56.29"	1457.05	40.04	80.07	125361.78	483860.85	125331.49	483934.96	110°39'32" 113°48'26"
L7	10+80.07	11+06.90							26.83	125331.49	483934.96	125320.66	483959.50	113°48'26"
C8	11+06.90	11+92.77	11+54.49		61°30'06"	71°37'11.01"	80.00	47.60	85.87	125320.66	483959.50	125254.01	484006.94	113°48'26" 175°18'33"
L8	11+92.77	12+47.37							54.60	125254.01	484006.94	125199.60	484011.41	175°18'33"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 2
ROADWAY
ALIGNMENT PLANS
SHEET 1

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-001

Sep. 22 2015 12:31 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-ALG.dwg By: kmcdlement

ALIGNMENT DATA BUS CONN														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L9	20+00.00	21+80.83							180.83	125222.99	484163.61	125403.34	484176.70	4°09'03"
C9	21+80.83	22+80.94	22+31.05		11°28'22"	11°27'32.96"	500.00	50.23	100.12	125403.34	484176.70	125501.80	484193.86	4°09'03" 15°37'25"
L10	22+80.94	24+25.02							144.07	125501.80	484193.86	125640.55	484232.67	15°37'25"

ALIGNMENT DATA TECHNOLOGY DR														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L11	500+00.00	502+10.95							210.95	125600.44	484849.48	125709.50	485030.05	58°52'06"
C10	502+10.95	508+83.12	505+55.04		30°12'21"	4°29'37.63"	1275.00	344.09	672.17	125709.50	485030.05	125892.95	485668.63	58°52'06" 89°04'27"
L12	508+83.12	514+51.92							568.80	125892.95	485668.63	125902.14	486237.36	89°04'27"

ALIGNMENT DATA PRAIRIE CENTER DR NB														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L13	300+00.00	301+78.28							178.28	123436.72	486573.50	123614.99	486573.80	0°05'56"
C13	301+78.28	312+10.24	307+38.82		55°31'06"	5°22'47.59"	1065.00	560.54	1031.96	123614.99	486573.80	124493.68	486113.26	0°05'56" 304°34'50"
L14	312+10.24	317+42.24							532.00	124493.68	486113.26	124795.62	485675.25	304°34'50"
C14	317+42.24	324+91.97	321+19.07		14°19'08"	1°54'35.49"	3000.00	376.83	749.73	124795.62	485675.25	125293.46	485117.27	304°34'50" 318°53'58"
L15	324+91.97	332+18.51							726.54	125293.46	485117.27	125840.95	484639.66	318°53'58"
C11	332+18.51	333+66.89	332+93.01		12°44'44"	8°35'24.26"	667.00	74.50	148.38	125840.95	484639.66	125962.64	484555.31	318°53'58" 331°38'42"
C12	333+66.89	339+56.17	336+68.10		29°15'28"	4°57'53.90"	1154.00	301.22	589.28	125962.64	484555.31	126528.90	484417.00	331°38'42" 0°54'10"
L16	339+56.17	341+79.70							223.53	126528.90	484417.00	126752.40	484420.52	0°54'10"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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CIVIL WEST - VOLUME 2
ROADWAY
ALIGNMENT PLANS
SHEET 2

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-002

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ALIGNMENT DATA PRAIRIE CENTER DR SB														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L17	400+00.00	401+69.10							169.10	123436.79	486533.50	123605.89	486533.79	0°05'56"
C15	401+69.10	407+53.25	404+68.77		31°30'54"	5°23'42.30"	1062.00	299.67	584.14	123605.89	486533.79	124161.29	486378.11	0°05'56" 328°35'02"
C16	407+53.25	410+97.74	409+28.04		23°55'30"	6°56'41.79"	825.00	174.79	344.49	124161.29	486378.11	124409.86	486143.22	328°35'02" 304°39'32"
L18	410+97.74	418+02.74							705.00	124409.86	486143.22	124810.79	485563.32	304°39'32"
C17	418+02.74	424+24.10	421+15.03		14°14'26"	2°17'30.59"	2500.00	312.29	621.36	124810.79	485563.32	125223.71	485101.15	304°39'32" 318°53'58"
L19	424+24.10	430+85.16							661.05	125223.71	485101.15	125721.86	484666.59	318°53'58"
C18	430+85.16	439+64.87	435+45.83		42°00'12"	4°46'28.73"	1200.00	460.68	879.72	125721.86	484666.59	126529.62	484371.00	318°53'58" 0°54'10"
L20	439+64.87	441+88.40							223.53	126529.62	484371.00	126753.12	484374.52	0°54'10"

ALIGNMENT DATA EDEN RD														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L39	100+00.00	101+76.47							176.47	124774.66	487925.46	124798.51	488100.31	82°14'06"
C36	101+76.47	105+18.26	103+48.43		15°38'29"	4°34'34.82"	1252.00	171.96	341.79	124798.51	488100.31	124890.05	488428.51	82°14'06" 66°35'37"
L40	105+18.26	106+50.35							132.10	124890.05	488428.51	124942.53	488549.74	66°35'37"
C37	106+50.35	107+50.35	107+00.39		5°15'06"	5°15'06.03"	1091.00	50.04	100.00	124942.53	488549.74	124986.40	488639.56	66°35'37" 61°20'31"
L41	107+50.35	108+17.06							66.71	124986.40	488639.56	125018.39	488698.10	61°20'31"
C38	108+17.06	109+68.01	108+93.96		26°56'32"	17°50'56.95"	321.00	76.89	150.94	125018.39	488698.10	125057.57	488842.43	61°20'31" 88°17'03"
L42	109+68.01	110+98.89							130.88	125057.57	488842.43	125061.49	488973.26	88°17'03"

ALIGNMENT DATA EDEN RD S														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L24	30+00.00	38+69.84							869.84	124023.38	488078.96	124893.22	488082.61	0°14'27"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 2
ROADWAY
ALIGNMENT PLANS
SHEET 3

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-003

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ALIGNMENT DATA GLEN LN														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L25	40+00.00	41+33.35							133.35	124516.24	488576.76	124647.14	488602.18	10°59'24"
C21	41+33.35	42+60.76	41+97.20		9°44'00"	7°38'21.97"	750.00	63.86	127.41	124647.14	488602.18	124773.67	488615.76	10°59'24" 1°15'24"
L26	42+60.76	43+22.39							61.63	124773.67	488615.76	124835.28	488617.11	1°15'24"
C22	43+22.39	44+51.52	43+87.97		24°39'47"	19°05'54.94"	300.00	65.58	129.14	124835.28	488617.11	124961.04	488592.50	1°15'24" 3°36'35'37"

ALIGNMENT DATA FLYING CLOUD DR NB														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L43	500+00.00	502+55.03							255.03	124818.42	489024.25	125073.39	489019.02	358°49'30"
C39	502+55.03	507+11.46	504+83.88		10°27'38"	2°17'30.59"	2500.00	228.85	456.43	125073.39	489019.02	125528.05	489051.26	358°49'30" 9°17'09"
C40	507+11.46	515+24.96	511+25.70		26°38'04"	3°16'26.56"	1750.00	414.24	813.50	125528.05	489051.26	126272.32	489361.11	9°17'09" 35°55'13"
C41	515+24.96	524+65.96	520+05.32		28°22'35"	3°00'56.04"	1900.00	480.36	940.99	126272.32	489361.11	126869.67	490075.74	35°55'13" 64°17'47"
L44	524+65.96	528+80.73							414.77	126869.67	490075.74	127049.56	490449.47	64°17'47"
C42	528+80.73	529+07.74	528+94.23		1°30'31"	5°35'03.78"	1026.00	13.51	27.01	127049.56	490449.47	127061.59	490473.65	64°17'47" 62°47'16"
L45	529+07.74	530+76.71							168.97	127061.59	490473.65	127138.86	490623.92	62°47'16"

ALIGNMENT DATA FLYING CLOUD DR SB														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L46	15+00.00	18+90.24							390.24	124817.47	488978.26	125207.63	488970.26	358°49'30"
C43	18+90.24	21+54.33	20+22.50		8°06'01"	3°04'02.01"	1868.00	132.27	264.09	125207.63	488970.26	125471.17	488983.50	358°49'30" 6°55'32"
C44	21+54.33	24+01.76	22+78.34		9°43'24"	3°55'47.11"	1458.00	124.01	247.43	125471.17	488983.50	125713.09	489033.98	6°55'32" 16°38'56"
C45	24+01.76	40+23.39	32+62.78		47°38'51"	2°56'17.68"	1950.00	861.02	1621.64	125713.09	489033.98	126911.45	490056.49	16°38'56" 64°17'47"
L47	40+23.39	44+37.39							413.99	126911.45	490056.49	127091.01	490429.52	64°17'47"
C46	44+37.39	44+63.19	44+50.29		1°30'31"	5°50'47.43"	980.00	12.90	25.80	127091.01	490429.52	127102.50	490452.62	64°17'47" 62°47'16"
L48	44+63.19	46+32.16							168.97	127102.50	490452.62	127179.77	490602.89	62°47'16"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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CIVIL WEST - VOLUME 2
ROADWAY
ALIGNMENT PLANS
SHEET 4

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-004

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ALIGNMENT DATA TECHNOLOGY DR EB 2														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L29	119+00.00	123+22.80							422.80	125931.61	487840.03	125938.49	488262.77	89°04'05"
C29	123+22.80	127+63.01	125+46.56		25°19'24"	5°45'09.32"	996.00	223.76	440.21	125938.49	488262.77	125849.72	488690.28	89°04'05" 114°23'29"
L30	127+63.01	131+35.52							372.52	125849.72	488690.28	125695.89	489029.55	114°23'29"

ALIGNMENT DATA TECHNOLOGY DR WB 2														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L31	1203+22.80	1204+20.96							98.16	125950.49	488262.57	125952.08	488360.72	89°04'05"
C30	1204+20.96	1207+63.87	1205+95.09		24°33'31"	7°09'43.10"	800.00	174.13	342.90	125952.08	488360.72	125885.13	488694.36	89°04'05" 113°37'36"
L32	1207+63.87	1211+41.47							377.61	125885.13	488694.36	125733.80	489040.31	113°37'36"

ALIGNMENT DATA 494 OFF RAMP														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L33	0+00.00	6+73.19							673.19	125845.42	489882.60	126260.85	489352.89	308°06'22"

ALIGNMENT DATA VIKING DRIVE														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L35	0+00.00	1+32.11							132.11	126780.11	489791.10	126885.23	489711.08	322°43'13"
C32	1+32.11	1+98.30	1+73.28		86°11'23"	130°13'03.65"	44.00	41.17	66.19	126885.23	489711.08	126895.29	489651.80	322°43'13" 236°31'50"
L36	1+98.30	3+00.00							101.69	126895.29	489651.80	126839.20	489566.97	236°31'50"

ALIGNMENT DATA 212 ON RAMP														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L37	0+00.00	2+92.56							292.56	127204.79	490729.90	127321.67	490998.11	66°27'14"
C33	2+92.56	6+98.51	5+21.83		66°27'14"	16°22'12.80"	350.00	229.27	405.94	127321.67	490998.11	127642.53	491208.29	66°27'14" 0°00'00"
L38	6+98.51	7+62.30							63.80	127642.53	491208.29	127706.32	491208.29	0°00'00"
C34	7+62.30	11+72.52	9+70.63		24°36'47"	5°59'59.99"	954.93	208.32	410.22	127706.32	491208.29	128104.04	491295.05	0°00'00" 24°36'47"
C35	11+72.52	13+06.41	12+39.47		1°21'16"	1°00'42.05"	5663.43	66.94	133.88	128104.04	491295.05	128226.41	491349.37	24°36'47" 23°15'31"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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CIVIL WEST - VOLUME 2
ROADWAY
ALIGNMENT PLANS
SHEET 5

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-005

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ALIGNMENT DATA TH 212 EB														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L36	433+03.80	436+66.72							362.92	127197.76	489690.42	127275.37	490044.95	77°39'09"
C42	436+66.72	459+50.08	449+67.16		68°30'32"	3°00'01.29"	1909.63	1300.44	2283.36	127275.37	490044.95	128837.37	491521.96	77°39'09" 9°08'37"
L37	459+50.08	489+49.24							2999.16	128837.37	491521.96	131798.42	491998.56	9°08'37"
C43	489+49.24	500+89.22	495+23.50		17°05'59"	1°30'00.00"	3819.72	574.26	1139.98	131798.42	491998.56	132880.45	492343.74	9°08'37" 26°14'36"
L38	500+89.22	525+88.95							2499.72	132880.45	492343.74	135122.51	493449.08	26°14'36"
C41	525+88.95	542+28.64	534+63.16		49°11'29"	3°00'00.15"	1909.83	874.22	1639.69	135122.51	493449.08	136126.47	494681.77	26°14'36" 75°26'05"

ALIGNMENT DATA 70TH ST W														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L1	300+00.00	300+17.64							17.64	131125.46	492890.31	131125.73	492907.95	89°06'03"
C1	300+17.64	301+51.75	300+85.33		19°12'37"	14°19'26.20"	400.00	67.69	134.11	131125.73	492907.95	131150.07	493039.20	89°06'03" 69°53'27"
L2	301+51.75	301+95.64							43.89	131150.07	493039.20	131165.16	493080.41	69°53'27"
C2	301+95.64	303+85.36	302+91.55		20°42'19"	10°54'48.53"	525.00	95.91	189.72	131165.16	493080.41	131197.14	493266.38	69°53'27" 90°35'45"
L3	303+85.36	307+78.33							392.96	131197.14	493266.38	131193.05	493659.32	90°35'45"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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CIVIL WEST - VOLUME 2
ROADWAY
ALIGNMENT PLANS
SHEET 6

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-001

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ALIGNMENT DATA LIBERTY DWY W														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L32	50+00.00	50+18.92							18.92	131142.24	493015.35	131159.98	493008.77	339°39'31"
C37	50+18.92	50+70.71	50+47.41		59°20'40"	114°35'29.61"	50.00	28.49	51.79	131159.98	493008.77	131208.83	493016.80	339°39'31" 39°00'11"
L31	50+70.71	50+87.14							16.43	131208.83	493016.80	131221.60	493027.14	39°00'11"
C35	50+87.14	51+81.43	51+37.28		48°14'00"	51°09'25.01"	112.00	50.14	94.29	131221.60	493027.14	131311.15	493046.01	36°00'55" 347°46'55"
L29	51+81.43	53+70.79							189.37	131311.15	493046.01	131496.23	493005.94	347°46'59"
C36	53+70.79	54+87.67	54+35.18		59°47'22"	51°09'25.01"	112.00	64.39	116.87	131496.23	493005.94	131579.05	492931.07	347°46'59" 287°59'37"
L30	54+87.67	55+60.73							73.06	131579.05	492931.07	131601.62	492861.58	287°59'37"

ALIGNMENT DATA SHADY OAK RD														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C3	800+00.00	801+17.20	800+58.85		13°02'20"	11°07'31.42"	515.00	58.85	117.20	130722.41	494410.84	130838.55	494397.12	346°44'27" 359°46'47"
L4	801+17.20	807+00.00							582.80	130838.55	494397.12	131421.34	494393.17	359°36'43"

ALIGNMENT DATA W 62ND ST														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C4	112+49.50	116+69.07	114+61.20		18°51'17"	4°29'37.63"	1275.00	211.70	419.57	136827.28	491704.27	136777.18	492118.94	87°27'40" 106°18'57"
C5	116+69.07	117+96.23	117+33.62		24°17'04"	19°05'54.94"	300.00	64.55	127.15	136777.18	492118.94	136717.04	492229.90	106°18'57" 130°36'01"
L5	117+96.23	122+42.08							445.85	136717.04	492229.90	136420.74	492563.04	131°39'01"
C6	122+42.08	124+95.23	123+76.74		48°20'59"	19°05'54.94"	300.00	134.67	253.16	136420.74	492563.04	136196.58	492663.67	131°39'01" 180°00'00"
L6	124+95.23	127+02.39							207.16	136196.58	492663.67	135989.42	492663.67	180°00'00"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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CIVIL WEST - VOLUME 2
ROADWAY
ALIGNMENT PLANS
SHEET 7

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-002

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ALIGNMENT DATA RED CIR DR TO YELLOW CIR DR														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C7	200+00.00	201+90.74	200+95.39		3°03'51"	1°36'23.29"	3566.56	95.39	190.74	137254.25	491469.49	137223.45	491657.71	97°45'45" 100°49'36"
C8	201+90.74	206+51.41	204+22.34		14°39'49"	3°10'59.16"	1800.00	231.60	460.67	137223.45	491657.71	137080.27	492094.24	100°49'36" 115°29'25"
C9	206+51.41	208+17.06	207+34.24		0°55'42"	0°33'37.80"	10222.29	82.83	165.65	137080.27	492094.24	137007.77	492243.18	115°29'25" 116°25'08"

ALIGNMENT DATA RED CIR DR														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C11	202+93.92	206+25.70	205+20.56		100°03'01"	30°09'20.42"	190.00	226.64	331.78	137201.17	491758.44	137371.98	491994.29	104°06'40" 4°03'39"
L7	206+25.70	211+59.51							533.81	137371.98	491994.29	137904.45	492032.09	4°03'39"
C12	211+59.51	213+01.35	212+35.47		50°47'39"	35°48'35.50"	160.00	75.96	141.84	137904.45	492032.09	138032.29	491982.15	4°03'39" 313°16'00"
C10	211+59.51	213+01.35	212+35.47		50°47'39"	35°48'35.50"	160.00	75.96	141.84	137904.45	492032.09	138032.29	491982.15	4°03'39" 313°16'00"

ALIGNMENT DATA YELLOW CIR DR														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L8	280+00.00	281+52.99							152.99	137968.30	492282.07	137823.37	492331.07	161°19'16"
C14	281+52.99	284+11.05	283+03.50		73°55'45"	28°38'52.40"	200.00	150.52	258.06	137823.37	492331.07	137594.99	492255.60	161°19'16" 235°15'01"
L9	284+11.05	284+46.05							35.00	137594.99	492255.60	137575.04	492226.84	235°15'01"
C13	284+46.05	286+36.10	285+41.58		14°27'59"	7°36'43.97"	752.68	95.53	190.04	137575.04	492226.84	137448.26	492085.95	235°15'01" 220°47'02"
C15	286+36.10	286+78.85	286+63.44		90°44'07"	212°12'23.73"	27.00	27.35	42.76	137448.26	492085.95	137409.95	492089.02	220°47'02" 130°02'54"
L10	286+78.85	287+10.13							31.28	137409.95	492089.02	137390.96	492113.88	127°22'31"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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CIVIL WEST - VOLUME 2
ROADWAY
ALIGNMENT PLANS
SHEET 8

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-003

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ALIGNMENT DATA YELLOW CIR DR TO RED CIR DR														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L11	220+00.00	221+70.56							170.56	138024.34	492692.94	138029.61	492522.46	271°46'20"
C16	221+70.56	222+77.64	222+24.67		20°27'04"	19°05'54.94"	300.00	54.12	107.08	138029.61	492522.46	138013.96	492417.11	271°46'20" 251°19'16"
L13	222+77.64	225+04.28							226.64	138013.96	492417.11	137941.37	492202.40	251°19'16"
C17	225+04.28	226+77.27	226+00.32		61°56'43"	35°48'35.53"	160.00	96.03	172.98	137941.37	492202.40	137976.43	492041.50	251°19'16" 313°16'00"
L14	226+77.27	227+58.77							81.50	137976.43	492041.50	138032.29	491982.15	313°16'00"
L12	226+77.27	227+58.77							81.50	137976.43	492041.50	138032.29	491982.15	313°16'00"
C18	227+58.77	228+81.54	228+23.36		43°58'02"	35°48'35.50"	160.00	64.59	122.78	138032.29	491982.15	138075.77	491870.53	313°16'00" 269°17'58"
L15	228+81.54	234+03.86							522.31	138075.77	491870.53	138069.39	491348.26	269°17'58"

ALIGNMENT DATA BREN RD E														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L16	1012+46.92	1013+66.17							119.25	138263.95	491997.28	138144.71	491996.40	180°25'16"
C19	1013+66.17	1016+70.83	1015+90.89		109°05'59"	35°48'35.50"	160.00	224.73	304.66	138144.71	491996.40	137991.96	492207.64	180°25'16" 71°19'16"
L17	1016+70.83	1018+84.66							213.82	137991.96	492207.64	138060.44	492410.20	71°19'16"
C20	1018+84.66	1019+91.74	1019+38.77		20°27'04"	19°05'54.94"	300.00	54.12	107.08	138060.44	492410.20	138076.10	492515.56	71°19'16" 91°46'20"
L18	1019+91.74	1021+70.64							178.90	138076.10	492515.56	138070.57	492694.37	91°46'20"

ALIGNMENT DATA BREN RD E TO RED CIR DR														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C21	270+00.00	272+48.20	271+56.90		88°52'42"	35°48'35.50"	160.00	156.90	248.20	138234.20	491997.06	138075.39	491839.02	180°25'16" 269°17'58"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 2
ROADWAY
ALIGNMENT PLANS
SHEET 9

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-004

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ALIGNMENT DATA BREN RD E														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L1	996+00.00	996+22.64							22.64	139456.92	491365.68	139468.34	491385.23	59°41'32"
C1	996+22.64	999+36.63	997+98.46		64°15'06"	20°27'46.00"	280.00	175.82	313.99	139468.34	491385.23	139458.89	491682.87	59°41'32" 123°56'38"
L2	999+36.63	1000+75.01							138.37	139458.89	491682.87	139381.63	491797.67	123°56'38"
C2	1000+75.01	1002+58.76	1001+69.87		35°05'41"	19°05'54.94"	300.00	94.86	183.76	139381.63	491797.67	139240.08	491910.30	123°56'38" 159°02'19"
L3	1002+58.76	1002+99.52							40.76	139240.08	491910.30	139202.01	491924.88	159°02'19"
C3	1002+99.52	1007+28.36	1005+16.46		21°21'56"	4°58'56.07"	1150.00	216.94	428.83	139202.01	491924.88	138782.50	492000.96	159°02'19" 180°24'15"
L4	1007+28.36	1010+07.54							279.19	138782.50	492000.96	138503.32	491998.99	180°24'15"
C4	1010+07.54	1010+11.13	1010+09.34		0°41'08"	19°05'54.94"	300.00	1.79	3.59	138503.32	491998.99	138499.73	491998.99	180°24'15" 179°43'07"
C5	1010+11.13	1010+14.81	1010+12.97		0°42'09"	19°05'54.94"	300.00	1.84	3.68	138499.73	491998.99	138496.06	491998.98	179°43'07" 180°25'16"
L5	1010+14.81	1012+46.92							232.11	138496.06	491998.98	138263.95	491997.28	180°25'16"

ALIGNMENT DATA BREN RD W														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L6	46+86.77	53+13.23							626.46	139369.89	492769.29	139380.80	492142.92	270°59'51"
C6	53+13.23	54+66.08	53+89.67		2°55'09"	1°54'35.49"	3000.00	76.44	152.85	139380.80	492142.92	139387.35	491990.23	270°59'51" 273°55'01"
L7	54+66.08	54+88.14							22.06	139387.35	491990.23	139388.86	491968.22	273°55'01"
C7	54+88.14	56+15.85	55+53.42		29°16'08"	22°55'05.92"	250.00	65.28	127.71	139388.86	491968.22	139429.05	491848.46	273°55'01" 303°11'09"
L8	56+15.85	56+54.49							38.64	139429.05	491848.46	139450.20	491816.12	303°11'09"
C8	56+54.49	57+15.81	56+85.15		1°10'16"	1°54'35.49"	3000.00	30.66	61.32	139450.20	491816.12	139484.29	491765.15	303°11'09" 304°21'25"
L9	57+15.81	58+49.25							133.44	139484.29	491765.15	139559.59	491655.00	304°21'25"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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CIVIL WEST - VOLUME 2
ROADWAY
ALIGNMENT PLANS
SHEET 10

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-ALG-001

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ALIGNMENT DATA FELTL RD														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C9	20+00.00	22+40.80	21+23.39		30°49'34"	12°48'05.00"	447.57	123.39	240.80	141423.23	490364.40	141650.51	490294.07	327°23'39" 358°13'13"
L10	22+40.80	26+00.00							359.20	141650.51	490294.07	142009.69	490289.93	359°20'19"

ALIGNMENT DATA SMETANA RD														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L11	50+00.00	55+47.95							547.95	142014.88	489274.28	142016.99	489822.23	89°46'43"
C10	55+47.95	56+19.57	55+83.76		0°49'15"	1°08'45.30"	5000.00	35.81	71.62	142016.99	489822.23	142016.76	489893.85	89°46'43" 90°35'57"
L12	56+19.57	57+10.37							90.80	142016.76	489893.85	142015.81	489984.64	90°35'57"
C11	57+10.37	57+51.53	57+30.95		0°35'23"	1°25'56.62"	4000.00	20.58	41.16	142015.81	489984.64	142015.17	490025.80	90°35'57" 91°11'20"
L13	57+51.53	61+57.50							405.96	142015.17	490025.80	142006.74	490431.68	91°11'20"
C12	61+57.50	61+75.61	61+66.55		0°12'27"	1°08'45.30"	5000.00	9.06	18.11	142006.74	490431.68	142006.33	490449.78	91°11'20" 91°23'47"
L14	61+75.61	77+00.00							1524.39	142006.33	490449.78	141969.19	491973.72	91°23'47"

ALIGNMENT DATA K-TEL DRIVE														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L15	4+00.00	5+22.19							122.19	145612.83	489615.96	145675.31	489720.96	59°14'33"
C13	5+22.19	8+23.04	6+86.63		57°27'33"	19°05'54.94"	300.00	164.45	300.86	145675.31	489720.96	145923.78	489867.39	59°14'33" 1°47'00"
L16	8+23.04	8+76.14							53.10	145923.78	489867.39	145976.85	489869.05	1°47'00"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 2
ROADWAY
ALIGNMENT PLANS
SHEET 11

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-ALG-002

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ALIGNMENT DATA 5TH ST S														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L17	0+00.00	1+27.41							127.41	145912.78	489873.67	145902.82	490000.68	94°29'03"
C14	1+27.41	2+50.11	1+89.63		23°26'02"	19°05'54.94"	300.00	62.22	122.70	145902.82	490000.68	145918.16	490121.56	94°29'03" 71°03'01"
L18	2+50.11	2+99.79							49.69	145918.16	490121.56	145934.29	490168.55	71°03'01"
C15	2+99.79	4+01.87	3+51.33		19°29'42"	19°05'54.94"	300.00	51.54	102.08	145934.29	490168.55	145950.54	490268.83	71°03'01" 90°32'43"
L19	4+01.87	8+92.55							490.68	145950.54	490268.83	145945.87	490759.49	90°32'43"

ALIGNMENT DATA 17TH AVE S														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L20	8+00.00	18+78.52							1078.52	146244.12	489916.58	147320.01	489991.83	4°00'03"

ALIGNMENT DATA EXCELSIOR BLVD														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L21	300+00.00	310+44.99							1044.99	147319.91	489516.44	147320.14	490561.44	89°59'15"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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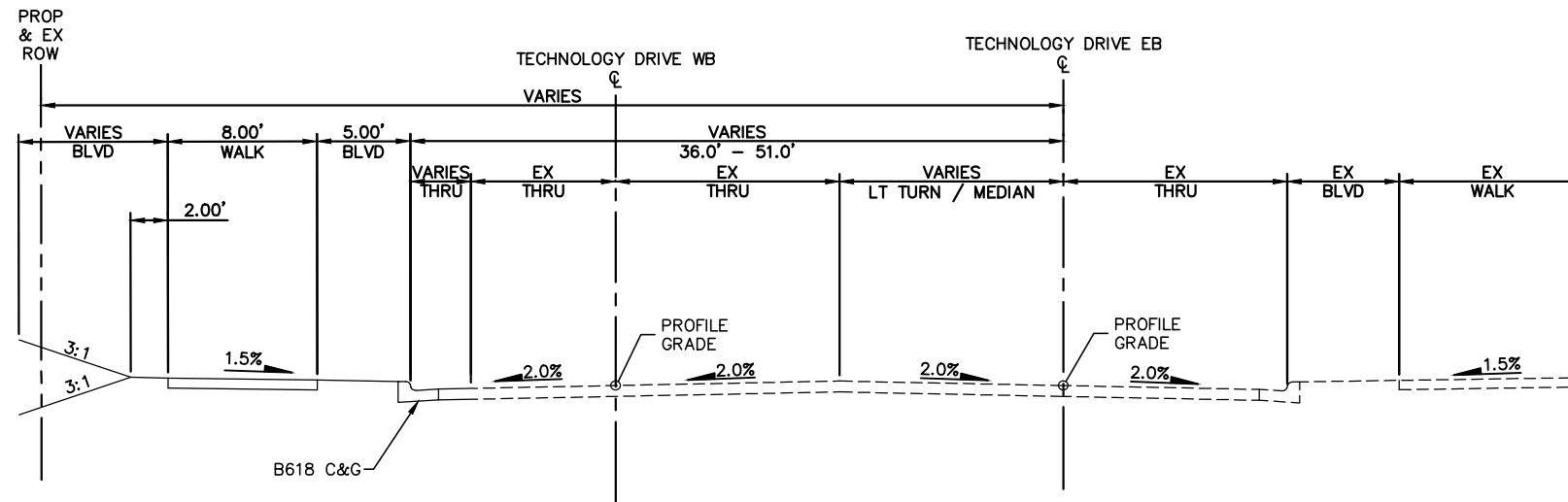


CIVIL WEST - VOLUME 2
ROADWAY
ALIGNMENT PLANS
SHEET 12

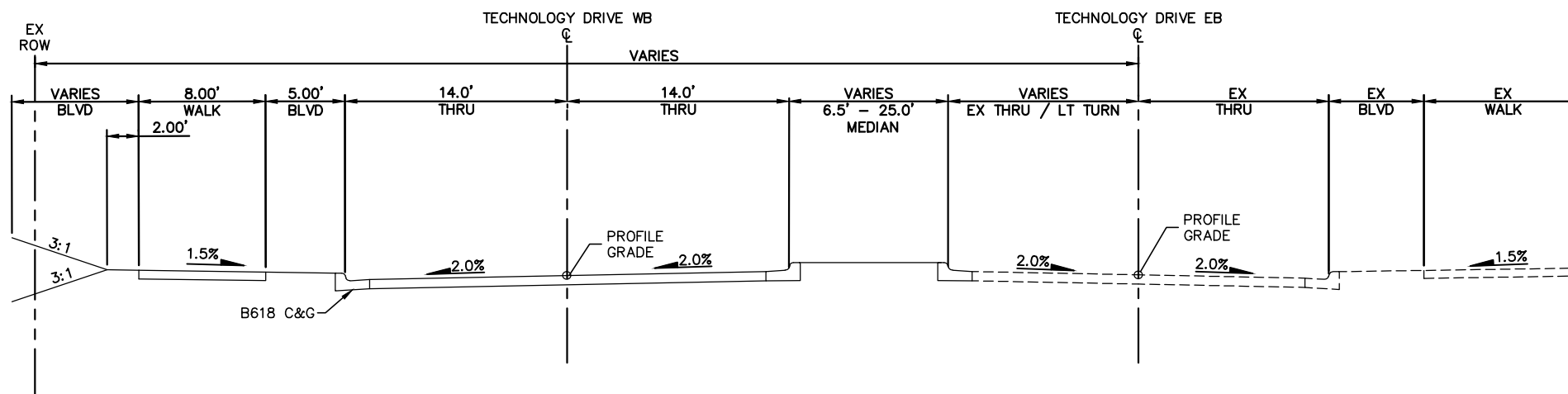
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SHEET NAME: W3-CIV-ALG-003

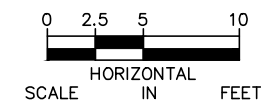
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TECHNOLOGY DRIVE WB
STA. 238+10.97 TO STA. 242+65.91



TECHNOLOGY DRIVE WB
STA. 242+65.91 TO STA. 245+63.74



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COUNCIL

SOUTHWEST
Green Line Light Extension

**CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 1**

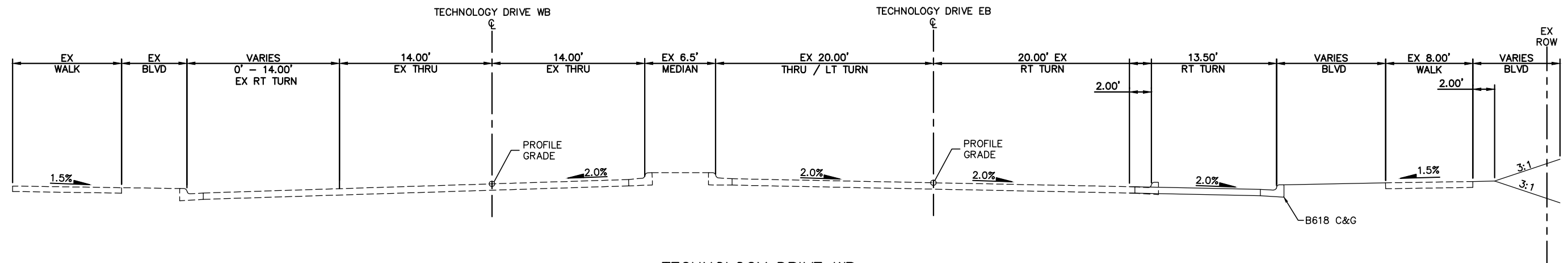
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CIVIL

SHEET NAME:
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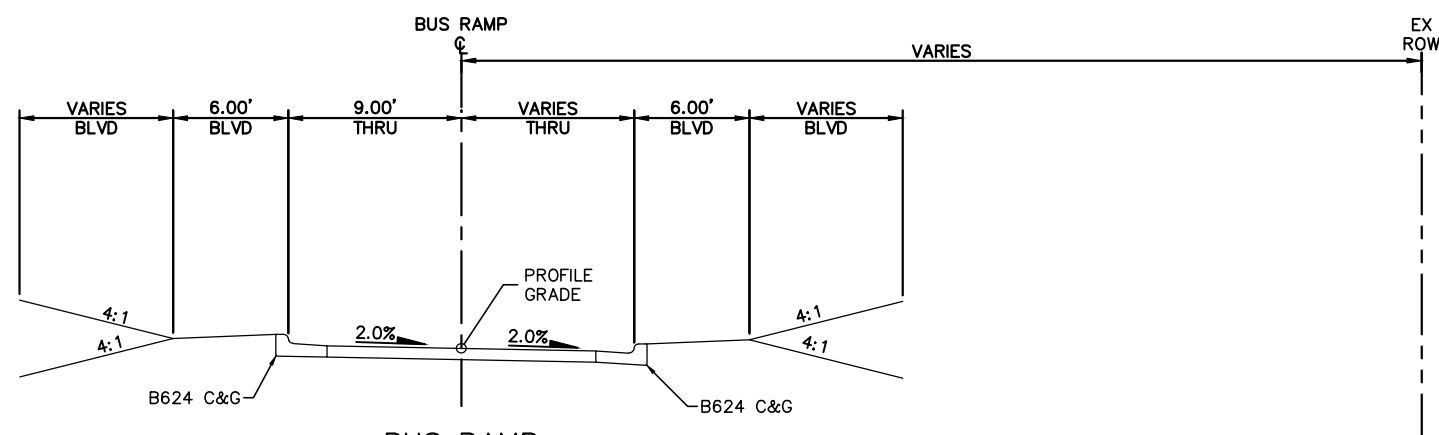
60% SUBMISSION - 09/28/15

**SHEET
34
OF
140**

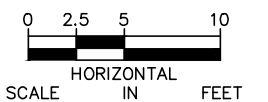
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TECHNOLOGY DRIVE WB
STA. 250+75.14 TO STA. 253+98.25



BUS RAMP
STA. 10+00.00 TO STA. 12+47.37



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SOUTHWEST
Green Line LRT Extension

**CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 2**

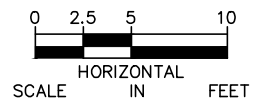
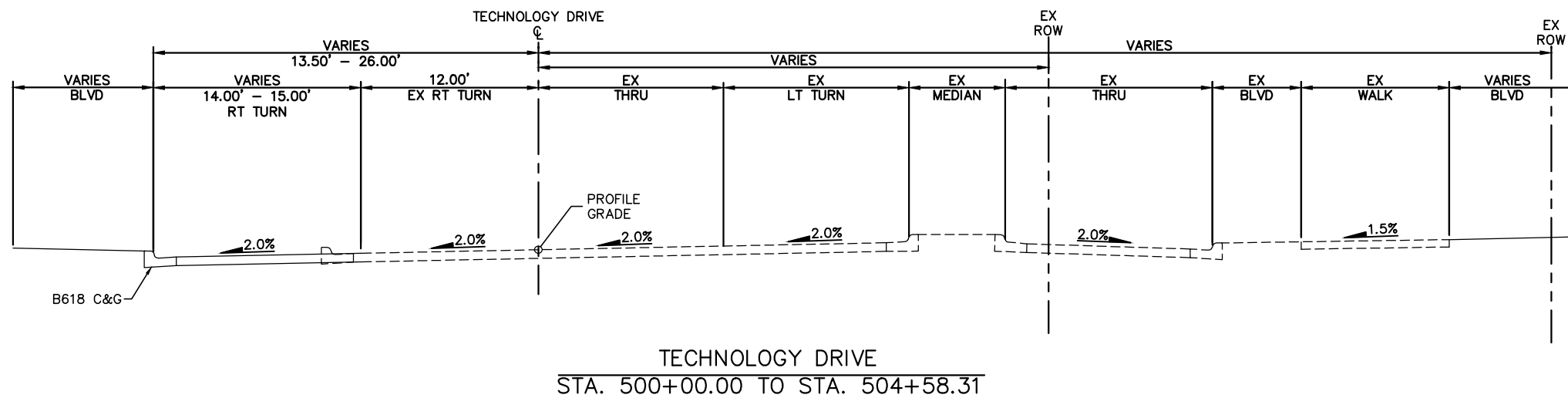
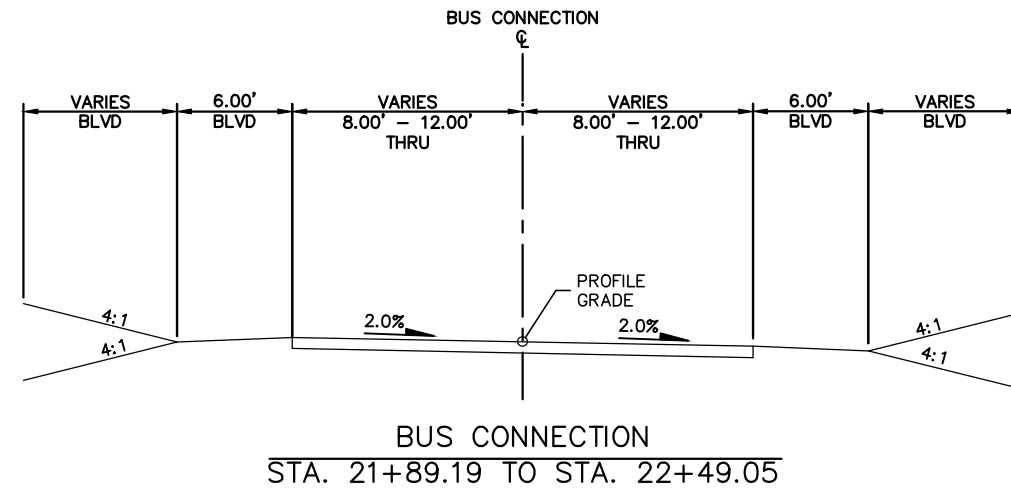
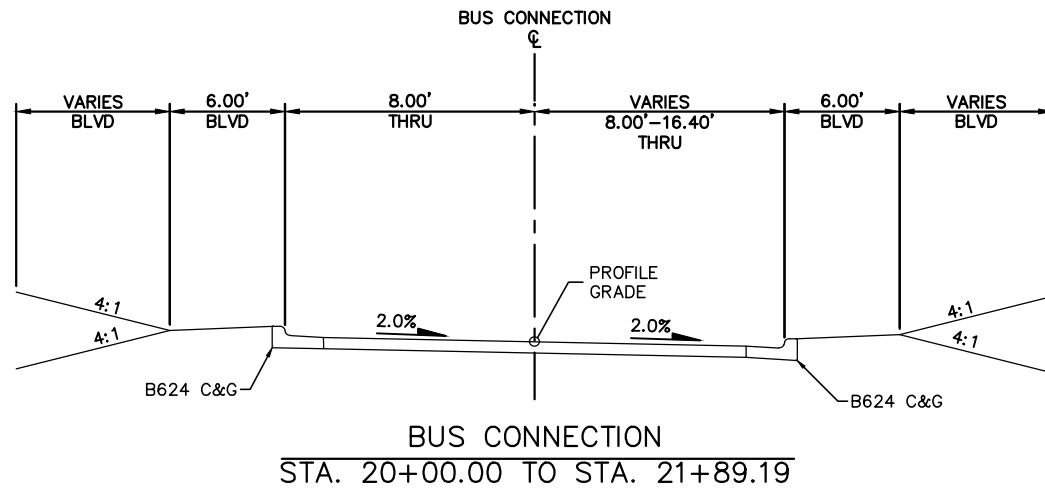
DISCIPLINE: **CIVIL**

SHEET NAME: **W1-CIV-TYP-002**

**SHEET
35
OF
140**

60% SUBMISSION - 09/28/15

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CONSULTING

SOUTHWEST
Green Line LRT Extension

**CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 3**

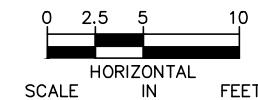
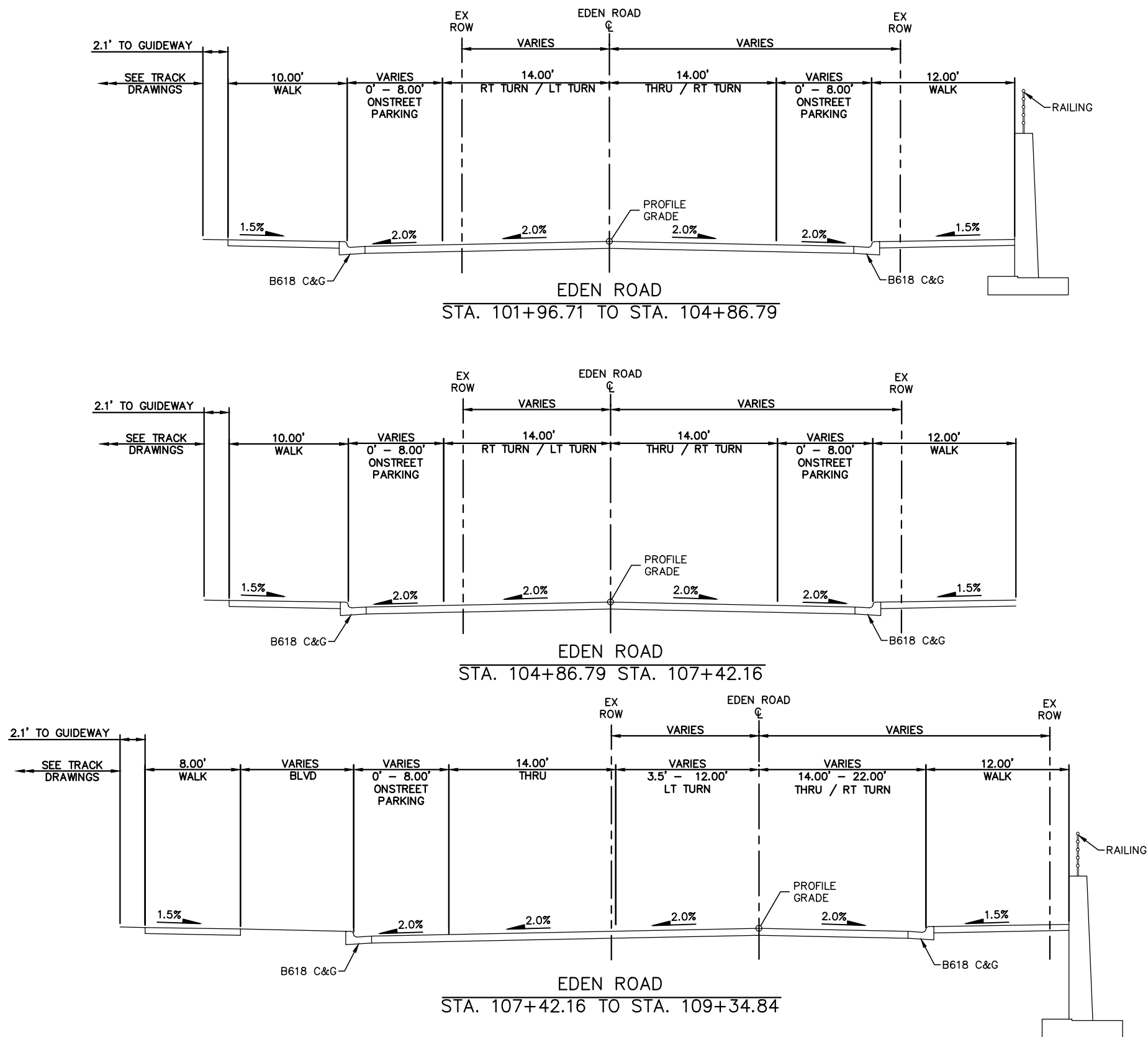
DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-TYP-003

60% SUBMISSION - 09/28/15

SHEET
36
OF
140

Sep. 22 2015 12:33 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-TYP.dwg By: kmcclement



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COUNTY

SOUTHWEST
Green Line LRT Extension

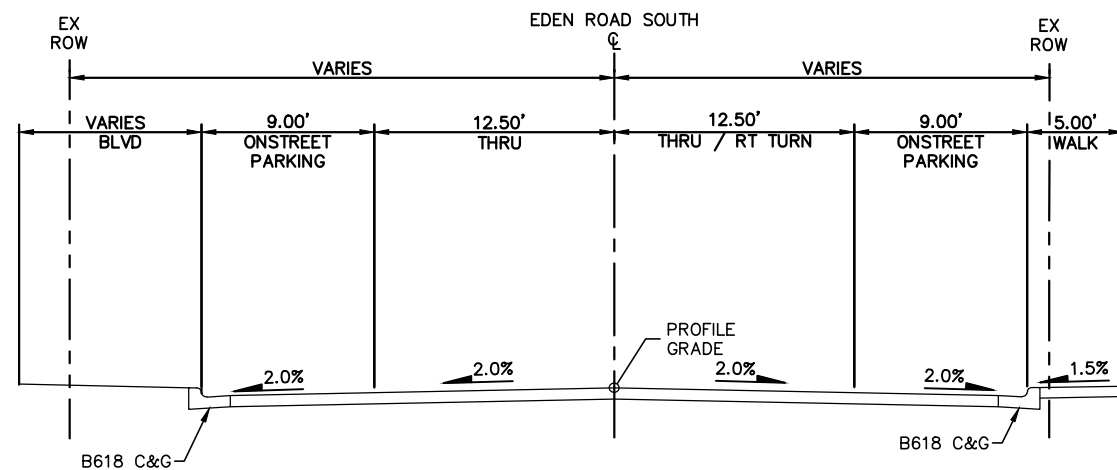
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CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 4

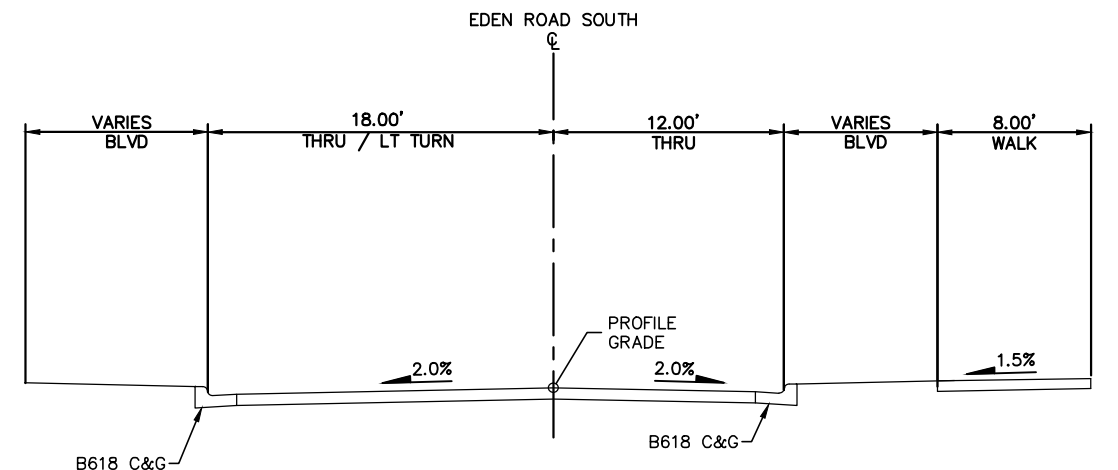
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SHEET NAME: W1-CIV-TYP-004

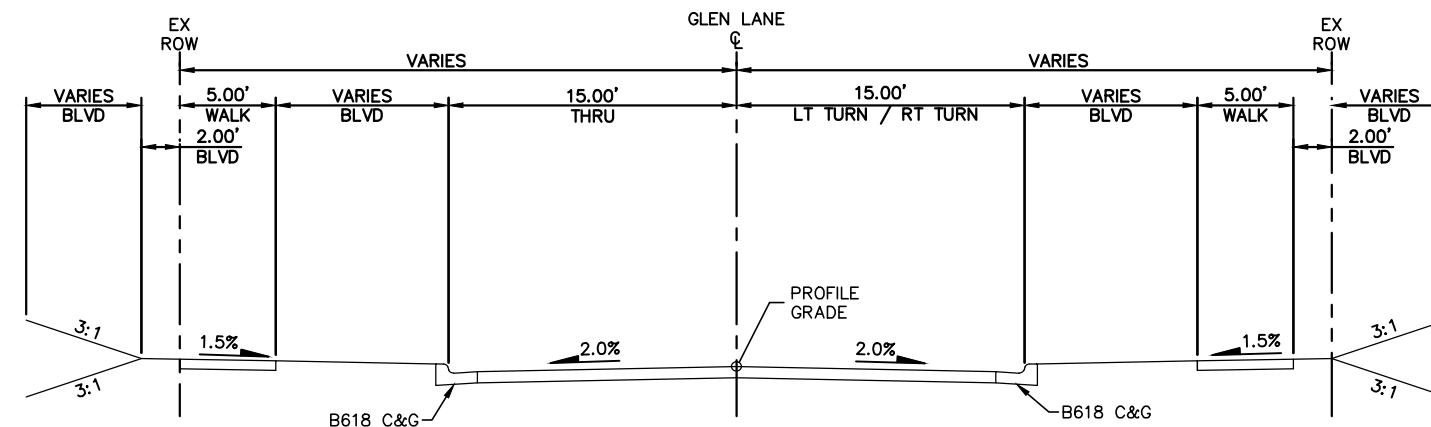
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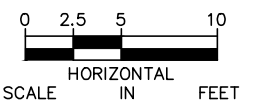
EDEN ROAD SOUTH
STA. 35+50.00 TO STA. 37+72.66



EDEN ROAD SOUTH
STA. 37+72.66 TO STA. 38+69.84



GLEN LANE
STA. 43+00.00 TO STA. 44+51.52



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COUNCIL

SOUTHWEST
Green Line LRT Extension

**CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 5**

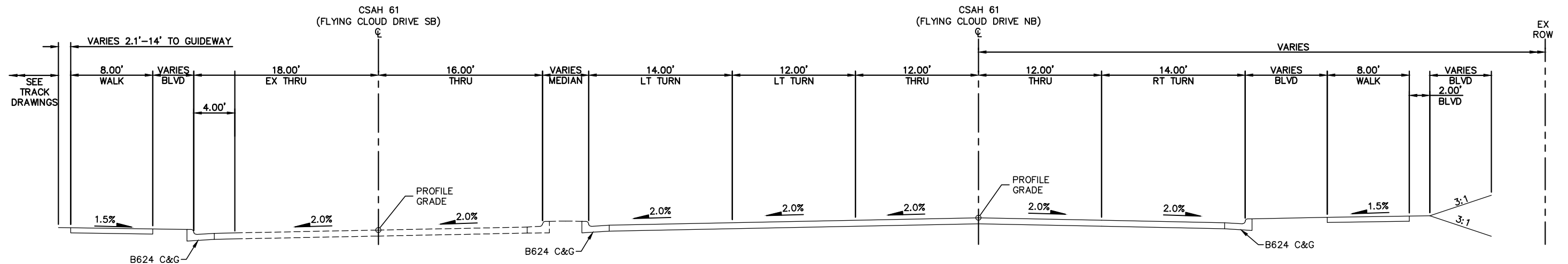
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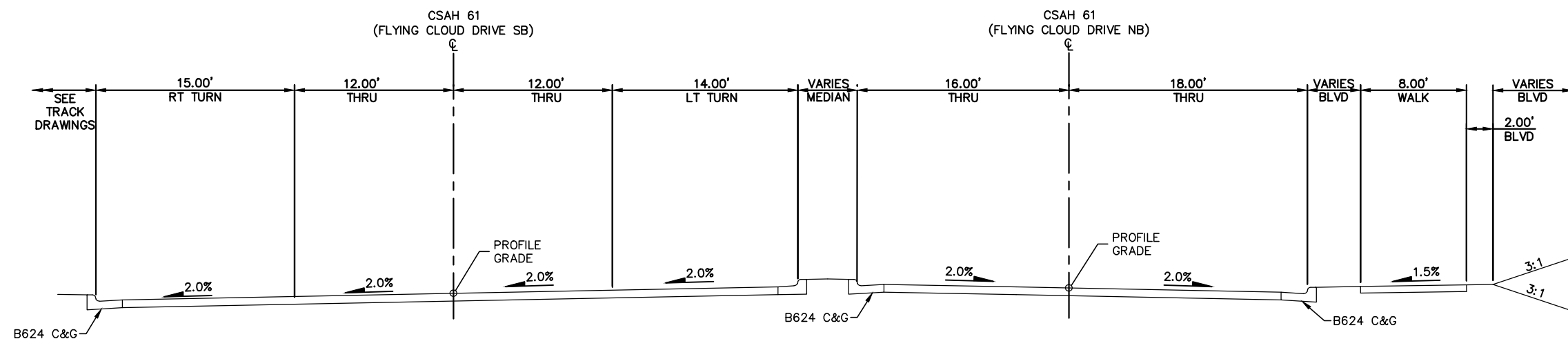
**SHEET
38
OF
140**

60% SUBMISSION - 09/28/15

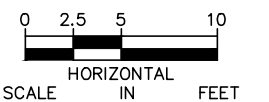
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CS AH 61 (FLYING CLOUD DRIVE NB)
STA. 506+18.30 TO STA. 508+25.00



CS AH 61 (FLYING CLOUD DRIVE NB)
STA. 509+00.00 TO STA. 510+10.58



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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SRH
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METROPOLITAN
COUNTY OF COLORADO

SOUTHWEST
Green Line LRT Extension

**CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 6**

DISCIPLINE:

CIVIL

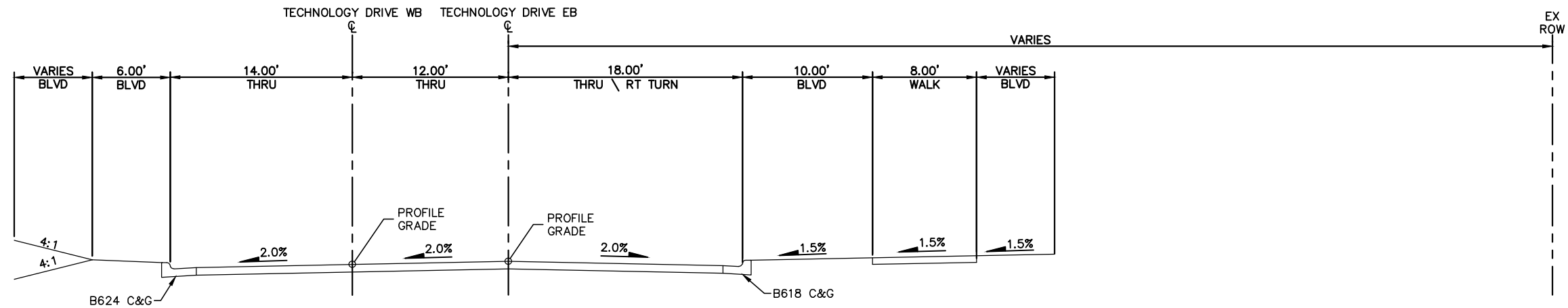
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W1-CIV-TYP-006

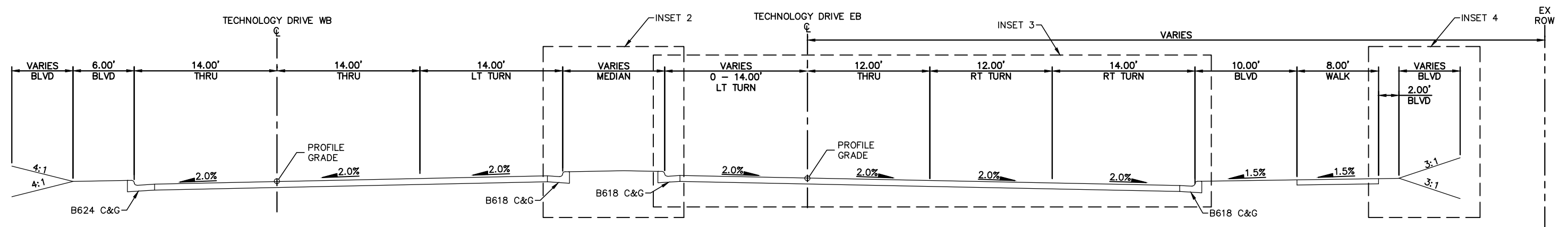
SHEET
39
OF
140

60% SUBMISSION - 09/28/15

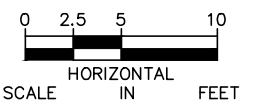
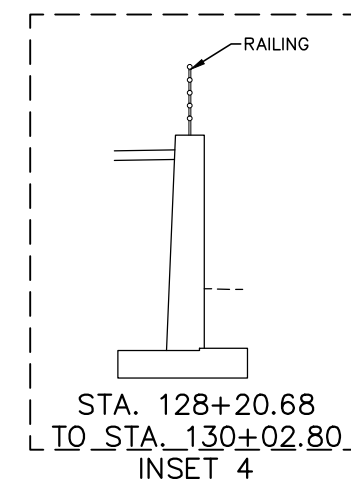
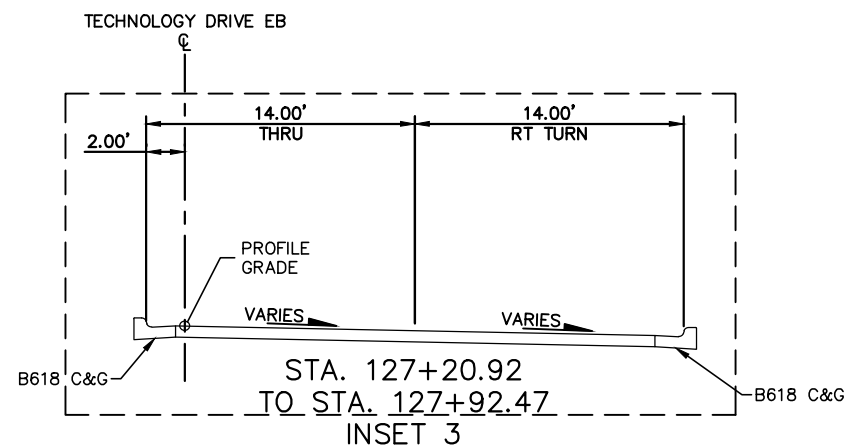
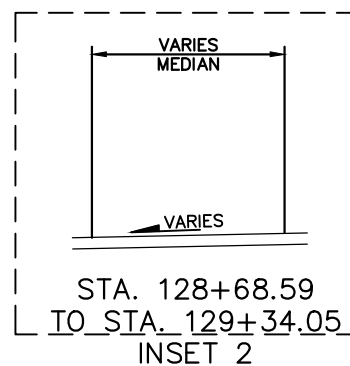
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TECHNOLOGY DRIVE EB
STA. 119+86.60 TO STA. 123+00.00



TECHNOLOGY DRIVE EB
STA. 126+94.99 TO STA. 131+35.52



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Consulting Group, Inc.

METROPOLITAN
C O U N C I L

SOUTHWEST
Green Line LRT Extension

**CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 7**

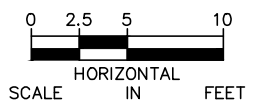
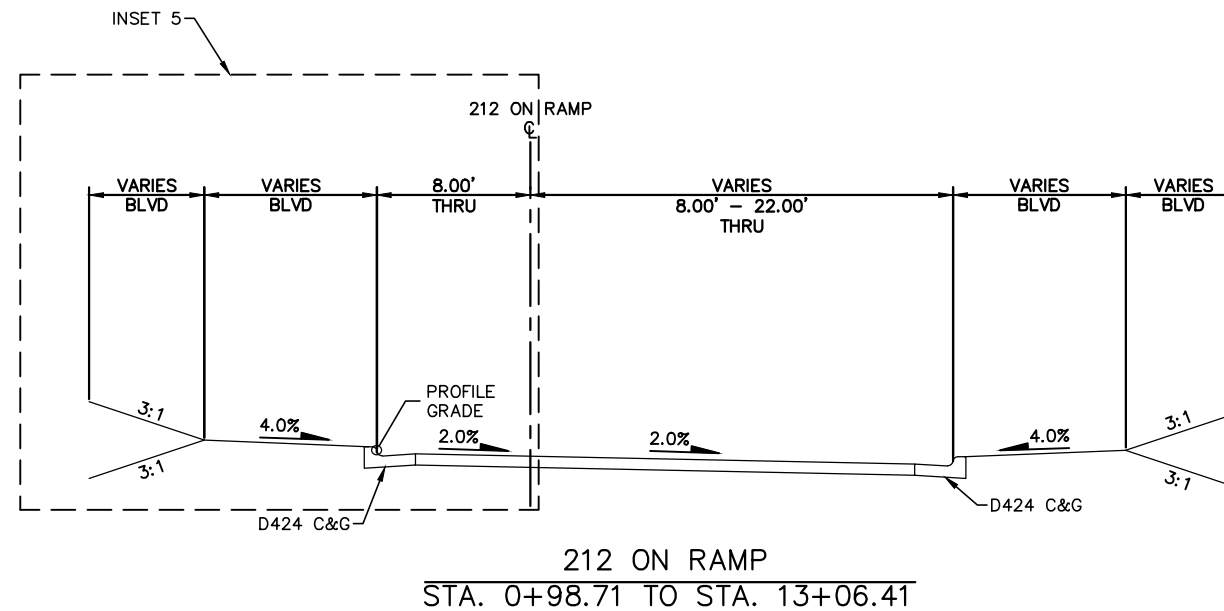
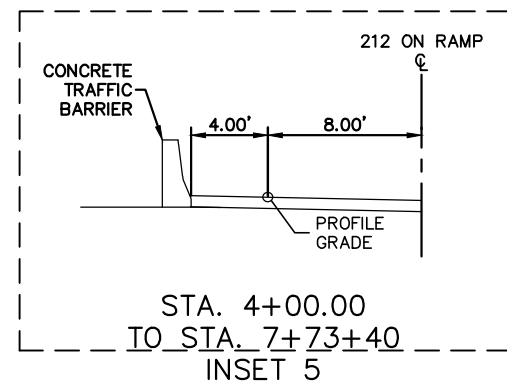
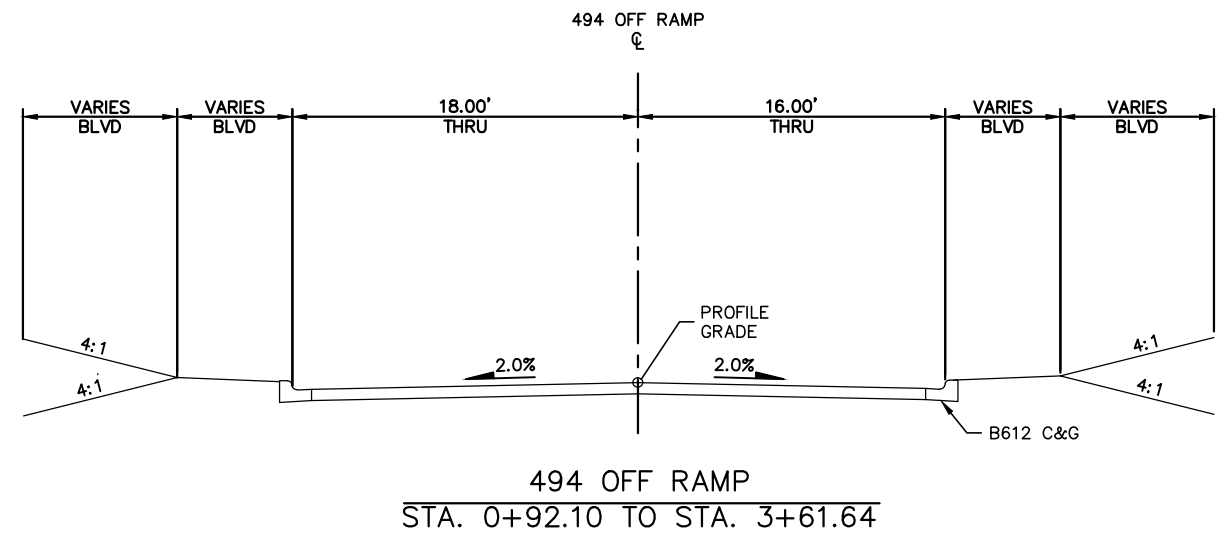
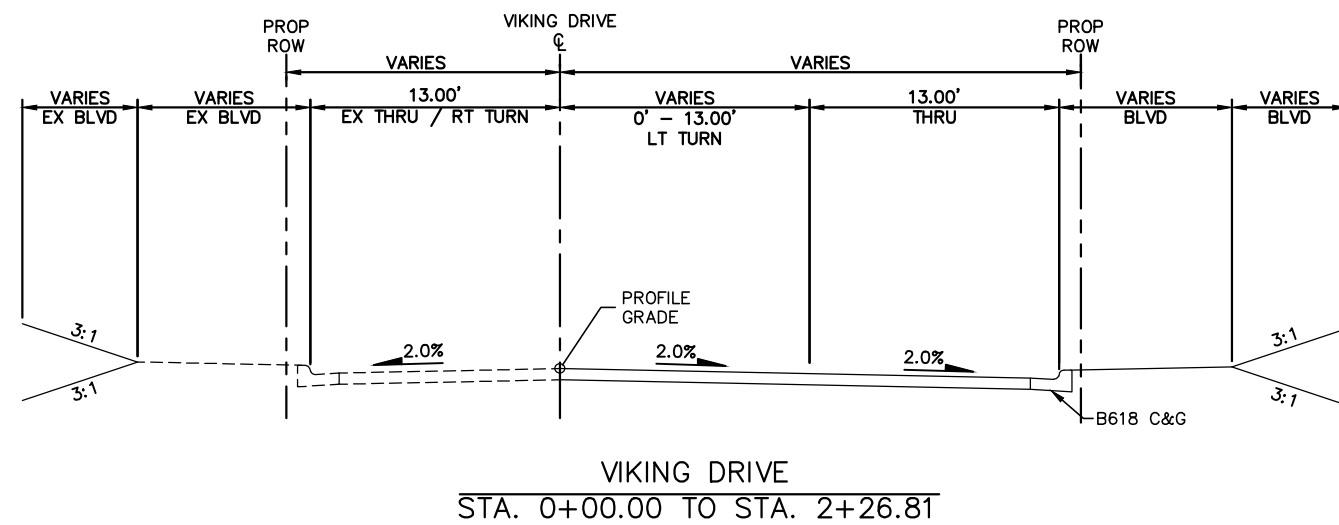
DISCIPLINE:
CIVIL

SHEET NAME:
W1-CIV-TYP-007

60% SUBMISSION - 09/28/15

**SHEET
40
OF
140**

Sep. 22 2015 12:33 pm v:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-TYP.dwg By: kmcclement



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COUNCIL

SOUTHWEST
Green Line LRT Extension

**CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 8**

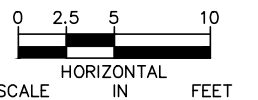
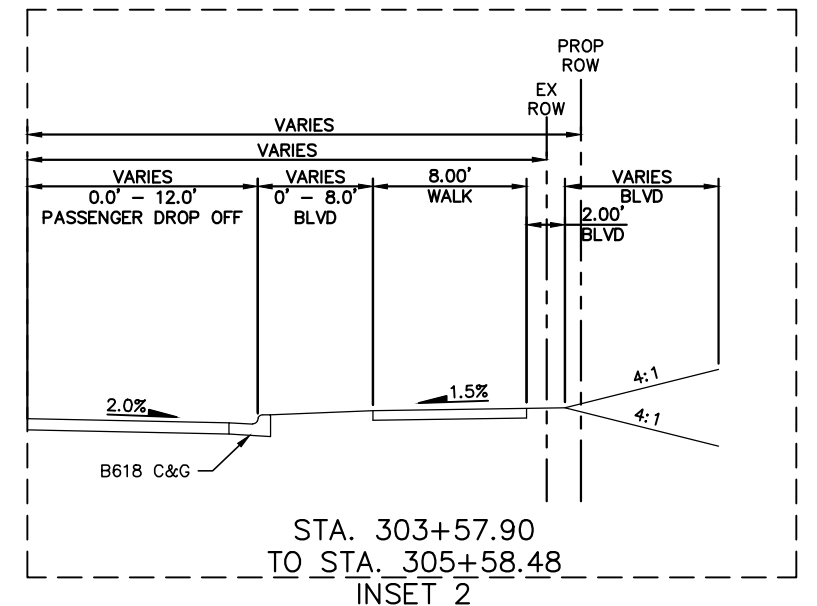
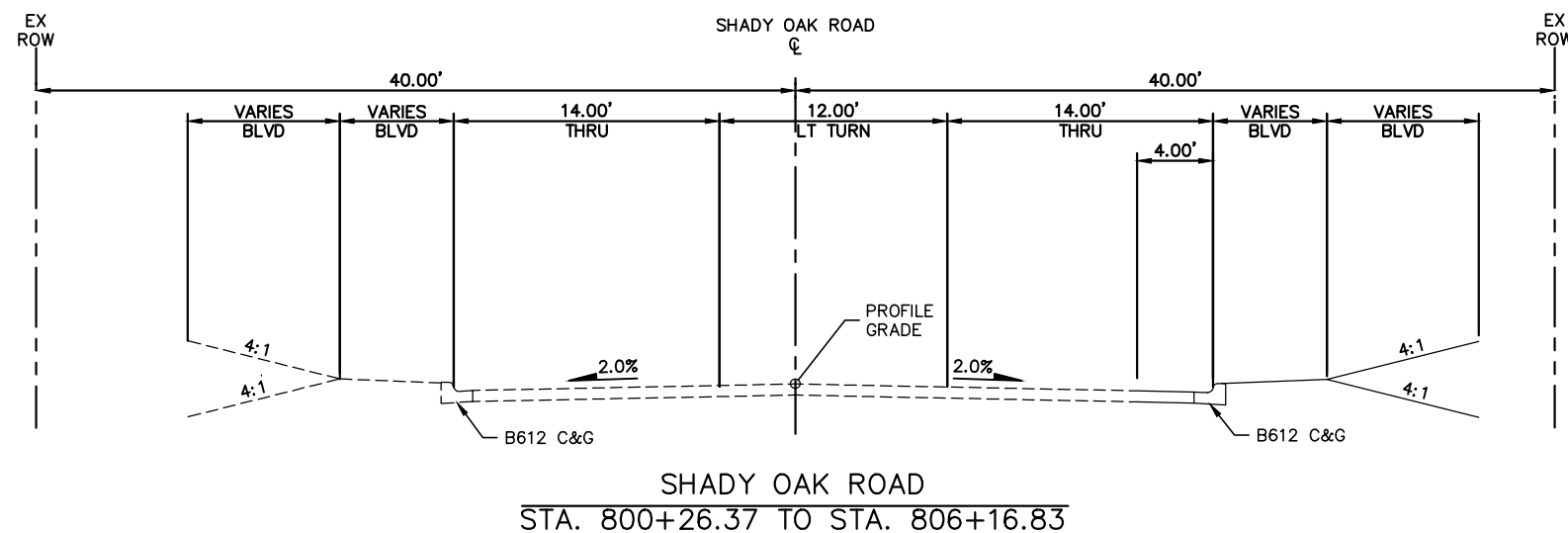
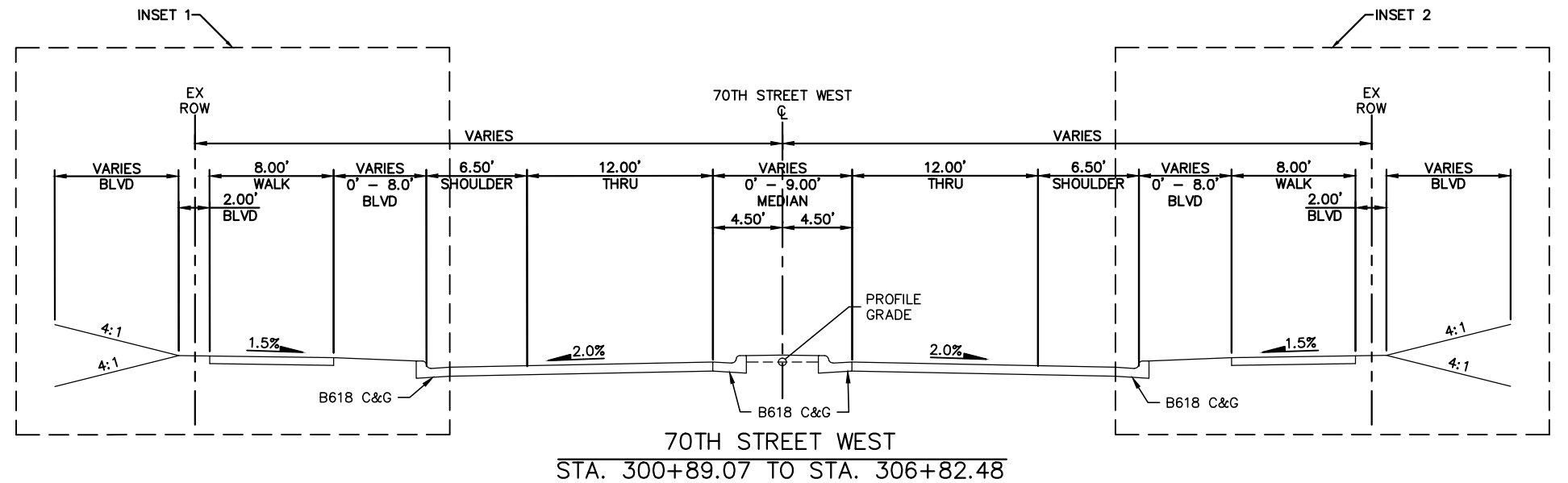
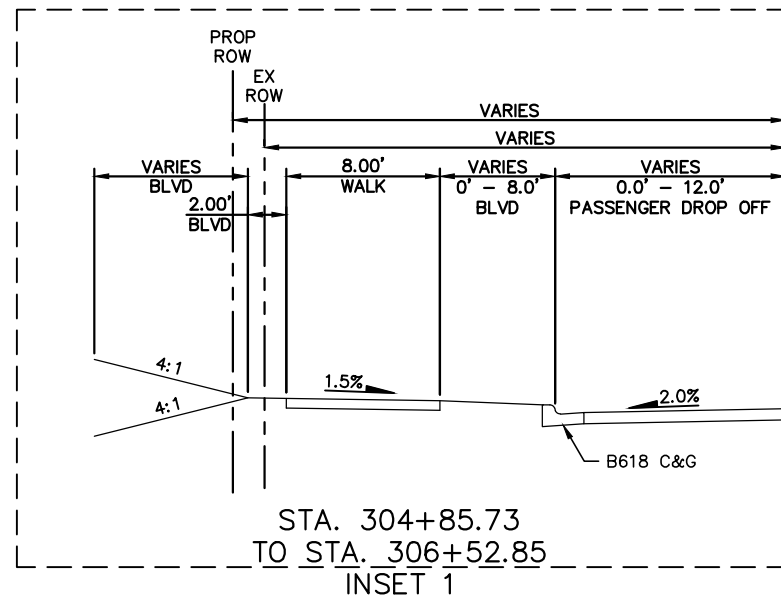
DISCIPLINE:
CIVIL

SHEET NAME:
W1-CIV-TYP-008

**SHEET
41
OF
140**

60% SUBMISSION - 09/28/15

Sep. 22 2015 12:33 pm v:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-TYP.dwg By: kncclement



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COUNCIL

SOUTHWEST
Green Line LRT Extension

**CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 9**

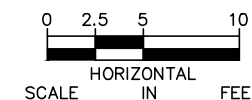
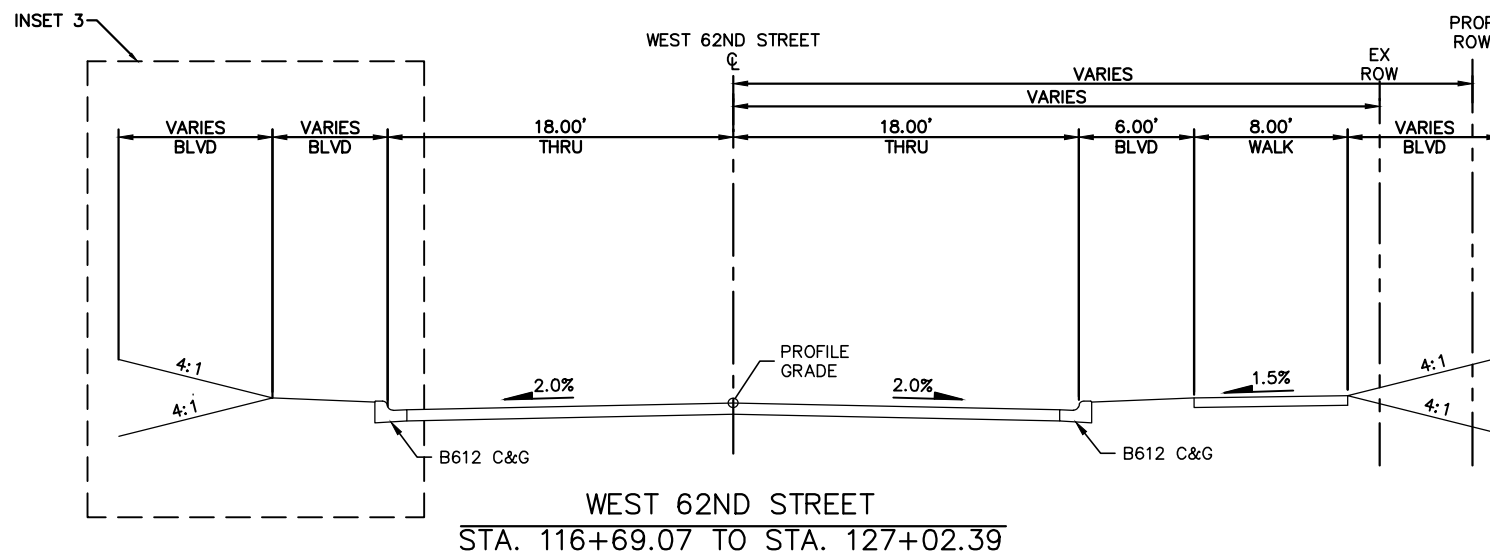
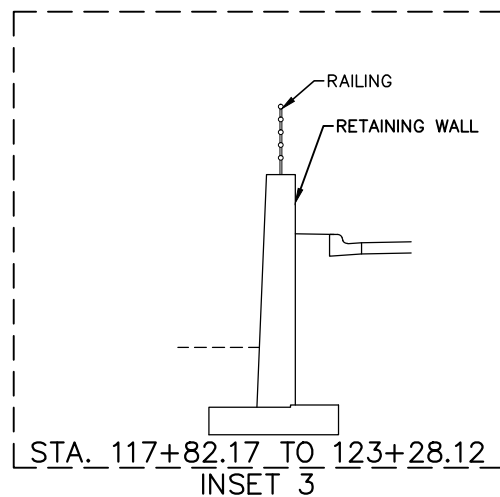
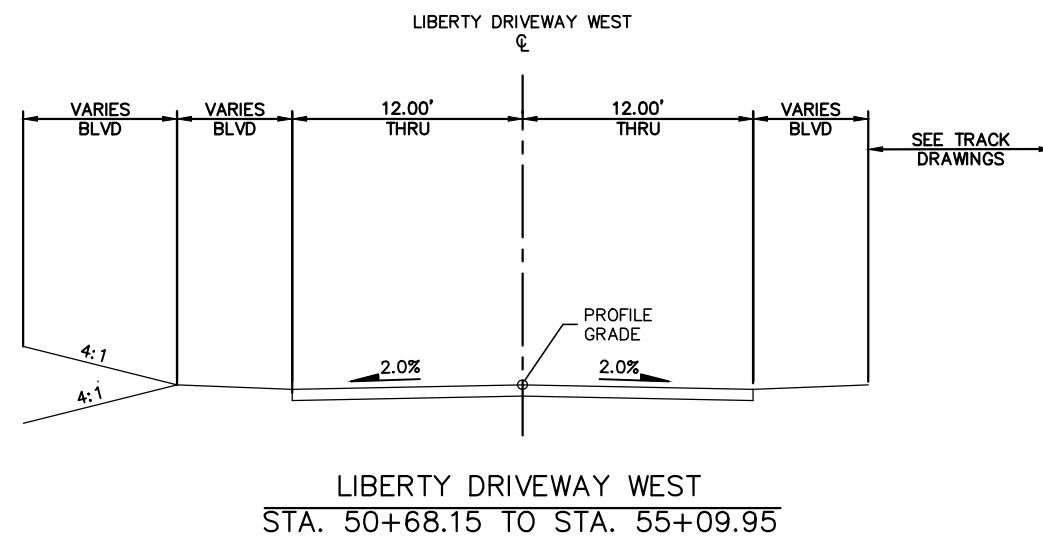
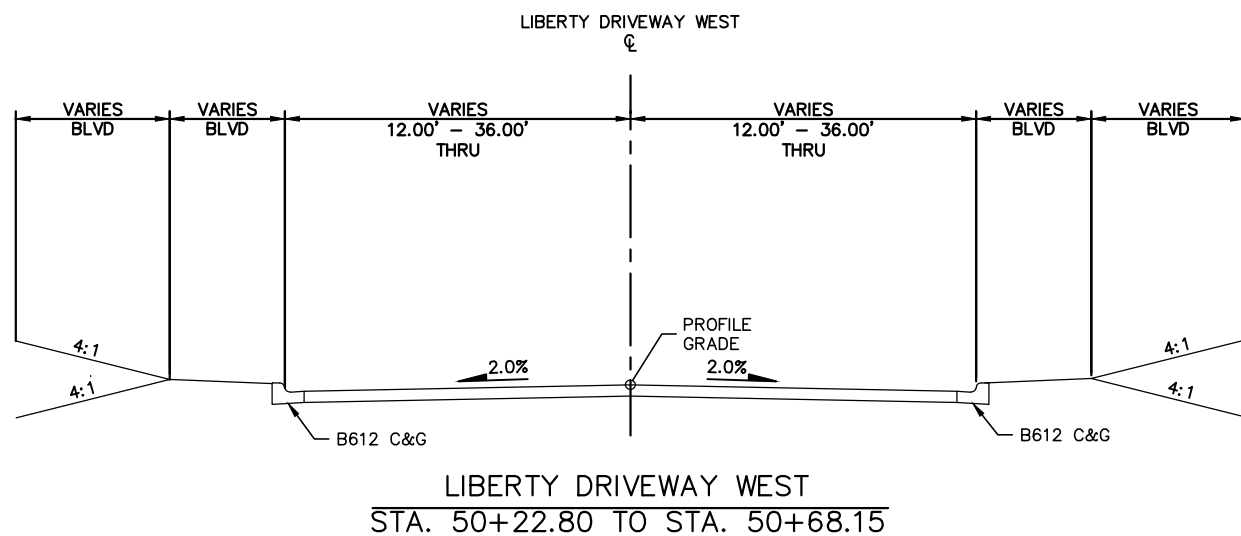
DISCIPLINE:
CIVIL

SHEET NAME:
W2-CIV-TYP-001

60% SUBMISSION - 09/28/15

**SHEET
42
OF
140**

Sep. 22 2015 12:33 pm v:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-TYP.dwg By: kncclement



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Green Line LRT Extension

**CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 10**

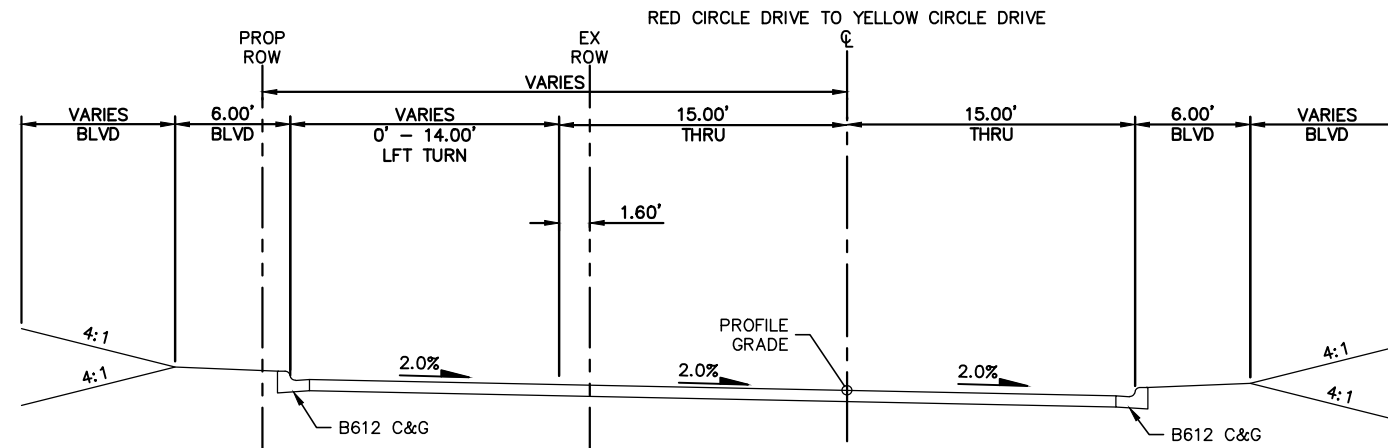
DISCIPLINE:
CIVIL

SHEET NAME:
W2-CIV-TYP-002

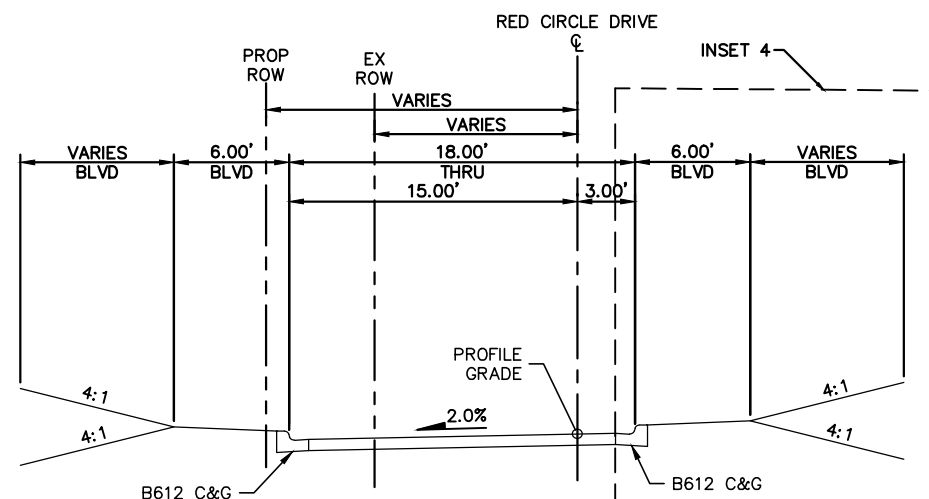
60% SUBMISSION - 09/28/15

**SHEET
43
OF
140**

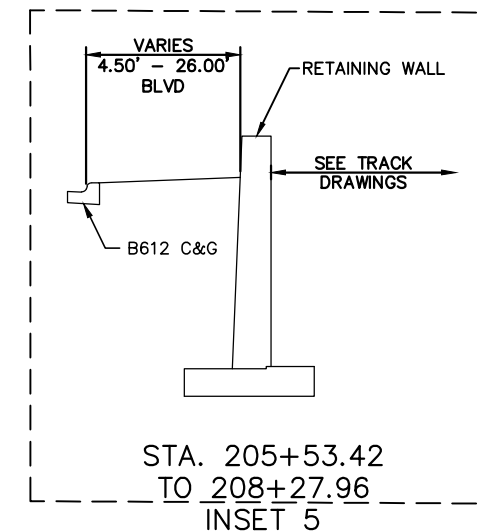
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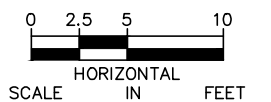
RED CIRCLE DRIVE TO YELLOW CIRCLE DRIVE
STA. 201+25.11 TO STA. 207+57.08



RED CIRCLE DRIVE
STA. 203+93.92 TO STA. 213+01.35



STA. 205+53.42
TO 208+27.96
INSET 5



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SOUTHWEST
Green Line LRT Extension

**CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 11**

DISCIPLINE:

CIVIL

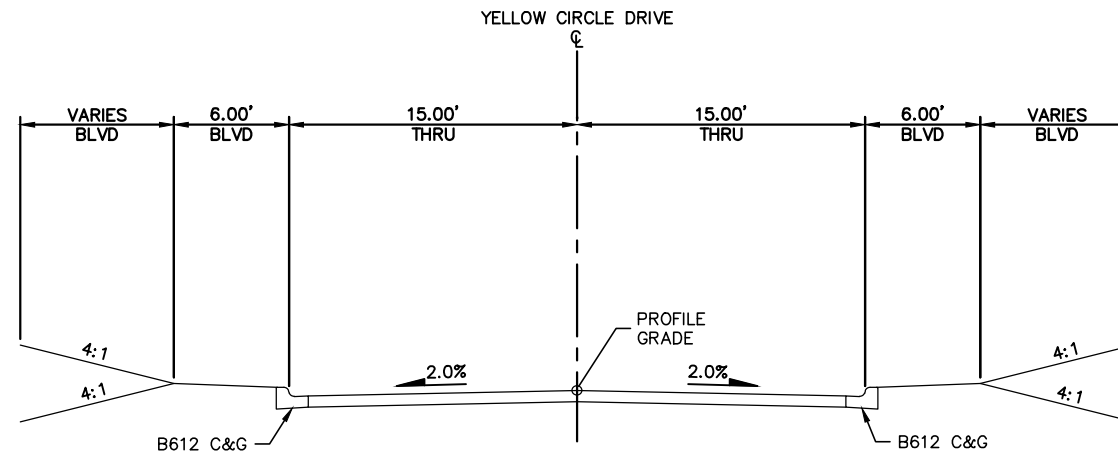
SHEET NAME:

W2-CIV-TYP-003

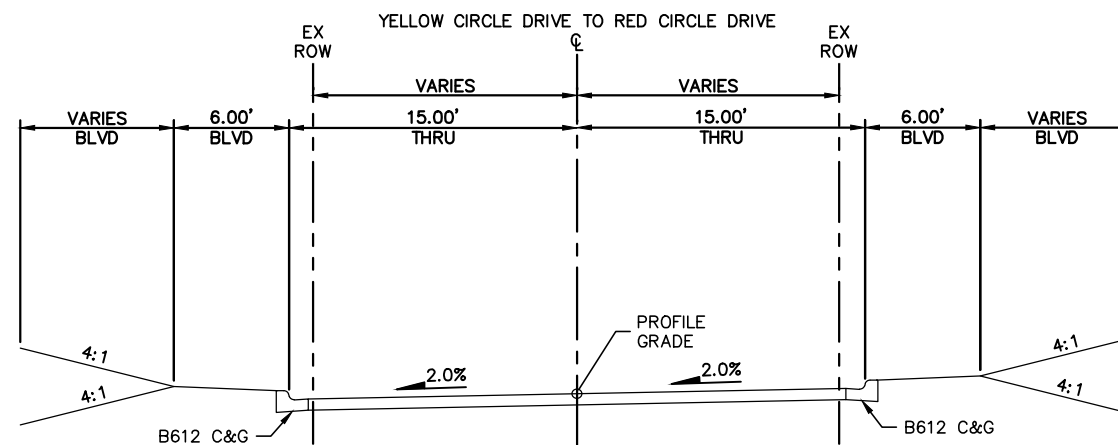
**SHEET
44
OF
140**

60% SUBMISSION - 09/28/15

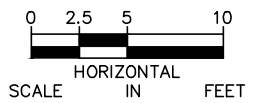
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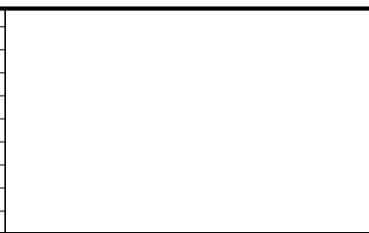
YELLOW CIRCLE DRIVE
STA. 280+00.00 TO STA. 286+18.29



YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE
STA. 221+70.56 TO STA. 231+50.00



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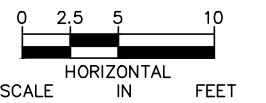
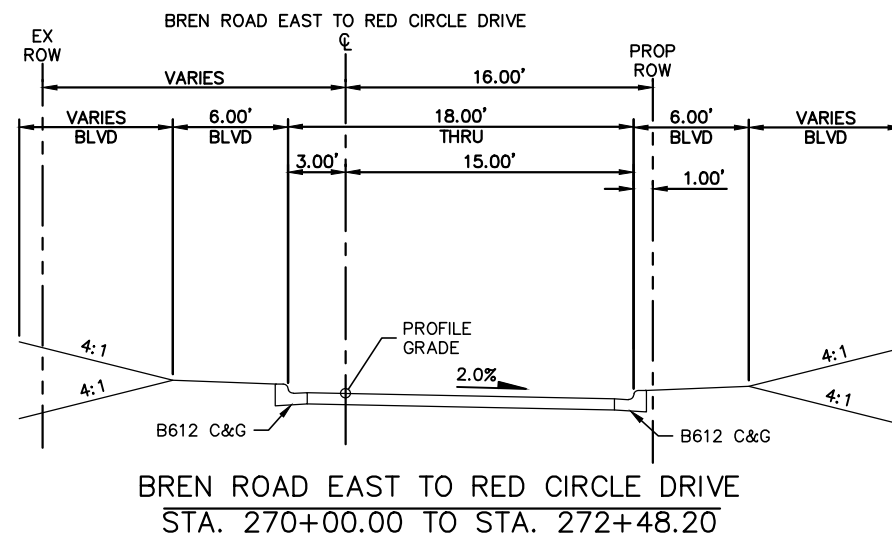
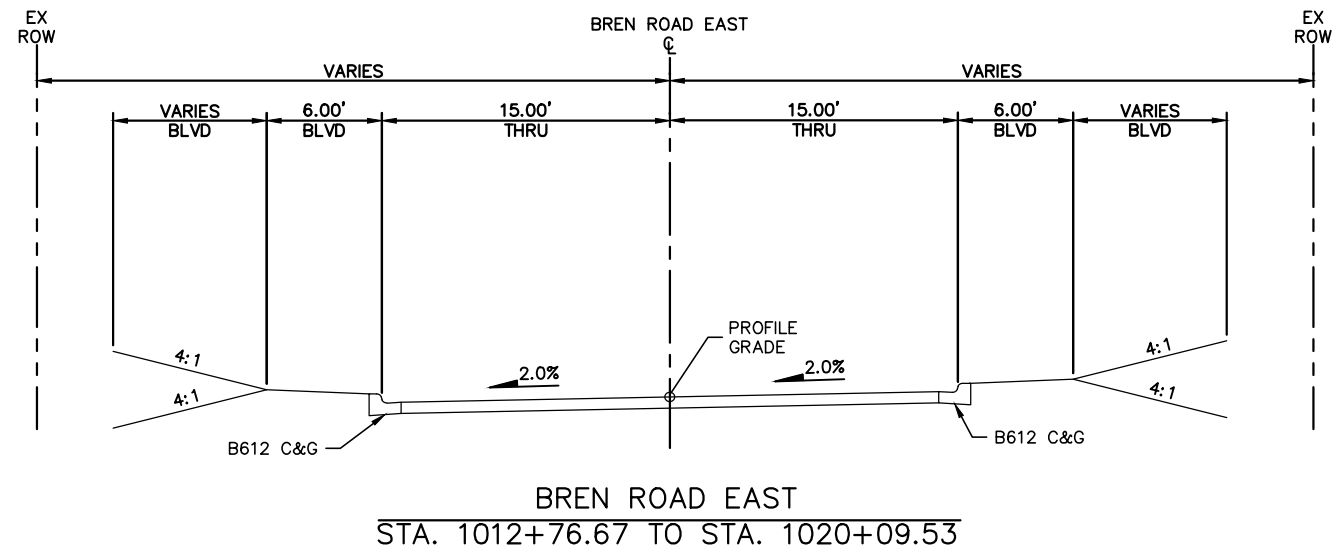
60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 12

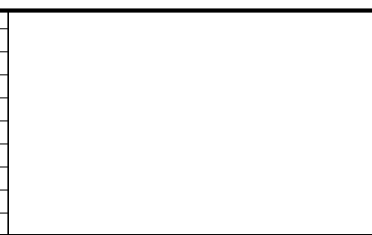
DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-TYP-004

SHEET
45
OF
140



Sep. 22 2015 12:33 pm V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-TYP.dwg By: knclement

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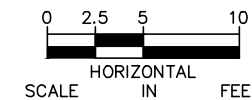
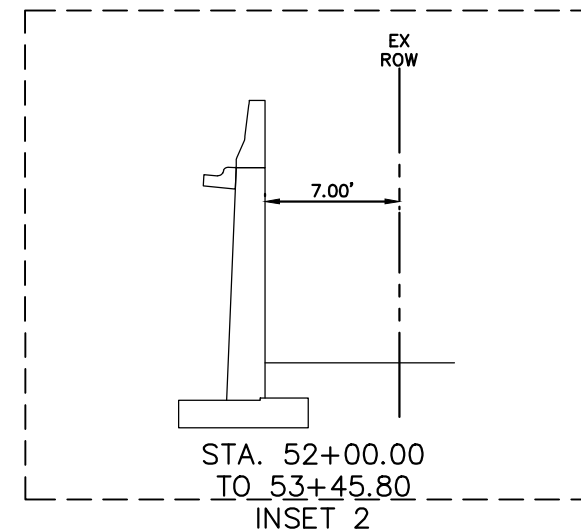
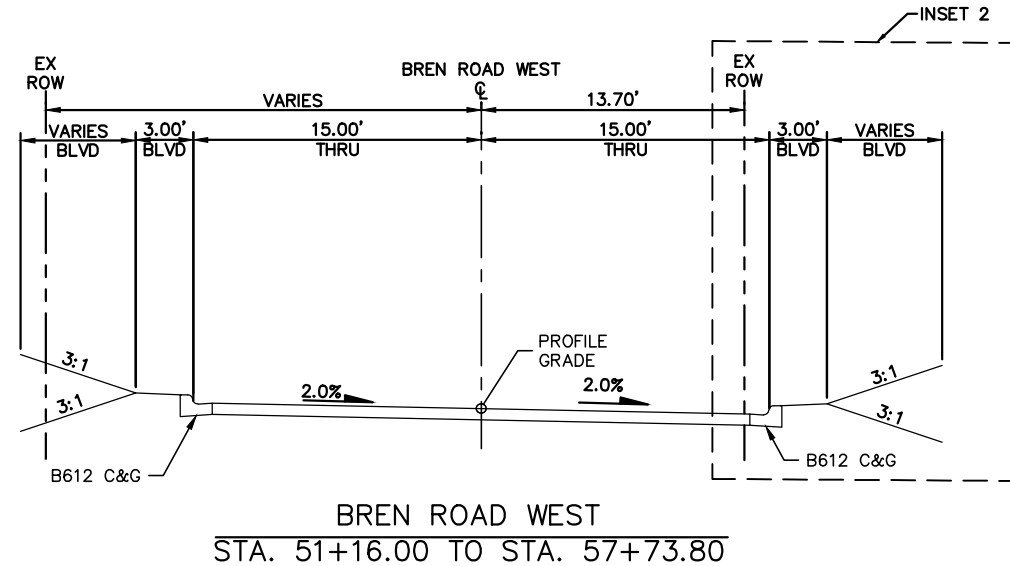
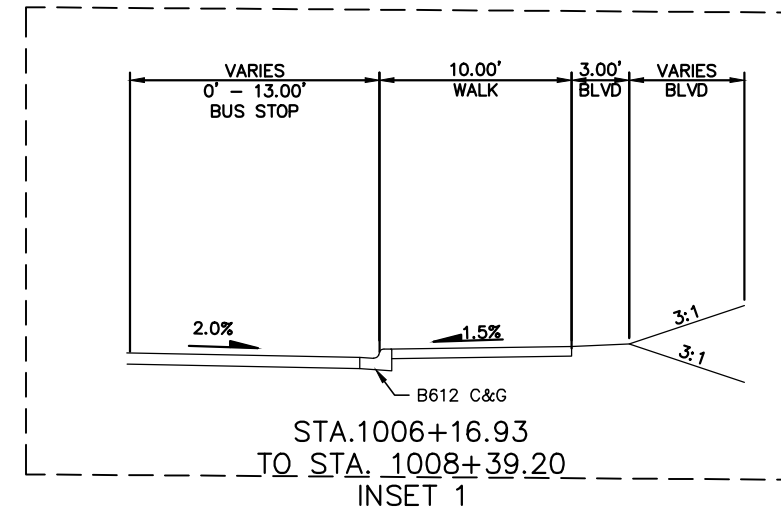
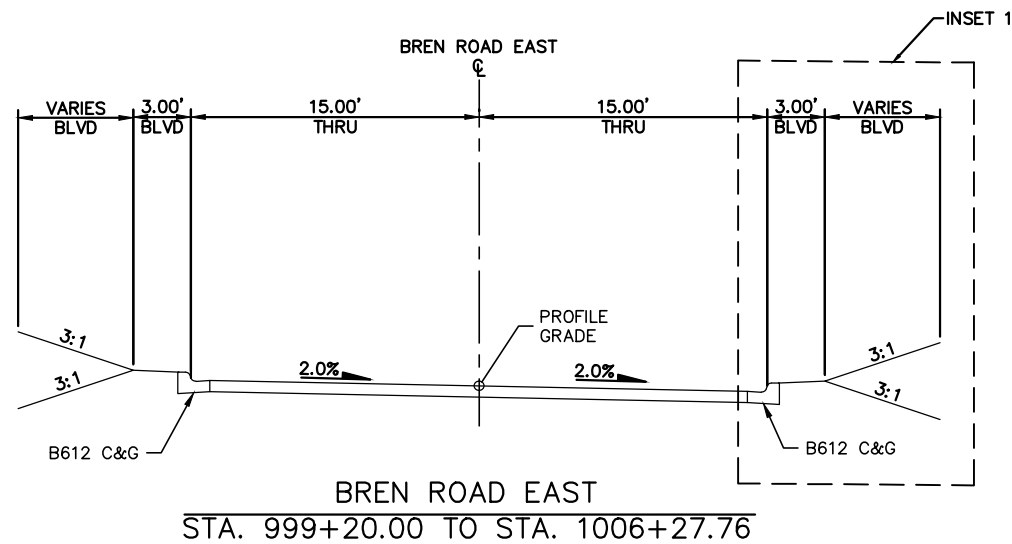



CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 13

DISCIPLINE: **CIVIL**
SHEET NAME: **W2-CIV-TYP-005**

SHEET
46
OF
140

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COUNCIL

SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 14

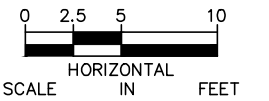
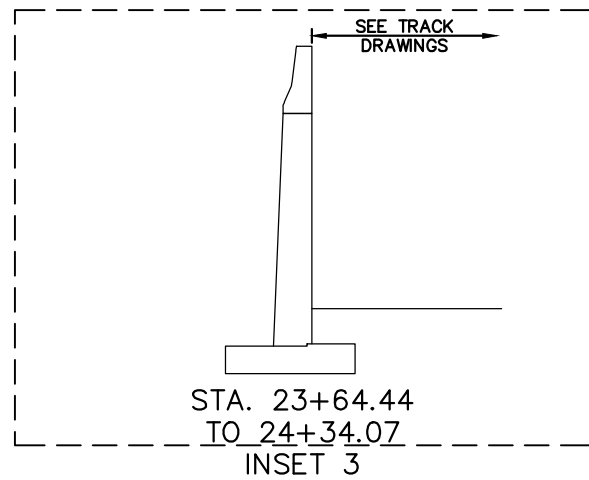
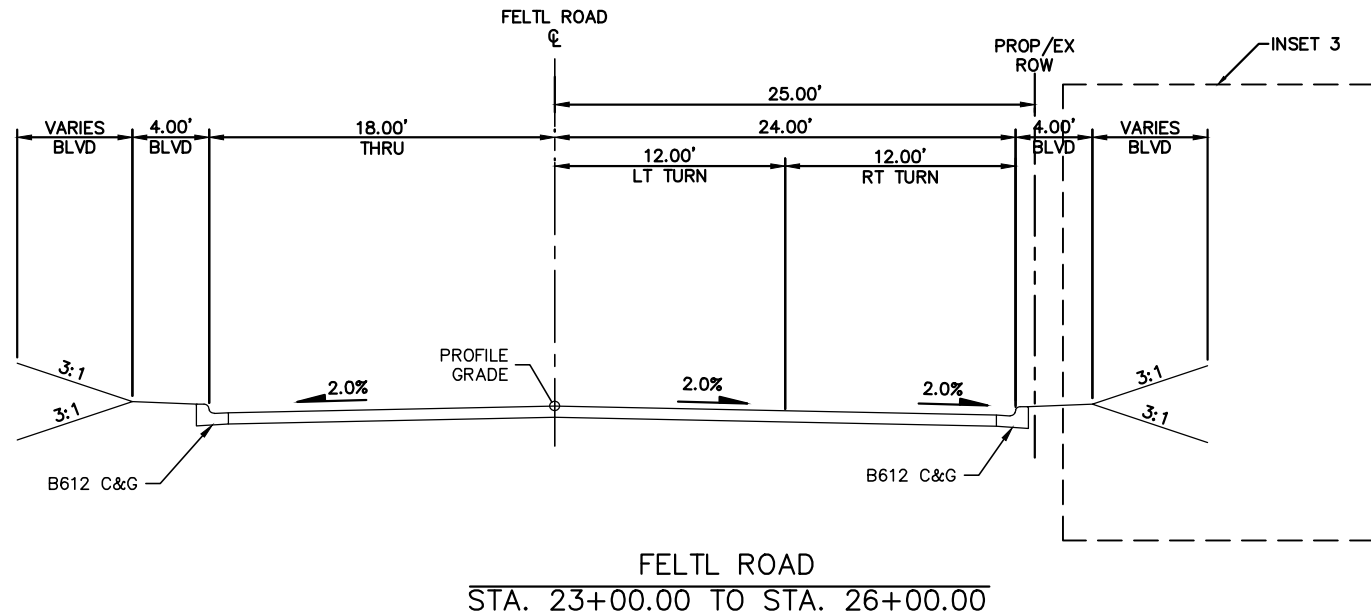
DISCIPLINE:
CIVIL

SHEET NAME:
W3-CIV-TYP-001

SHEET
47
OF
140

60% SUBMISSION - 09/28/15

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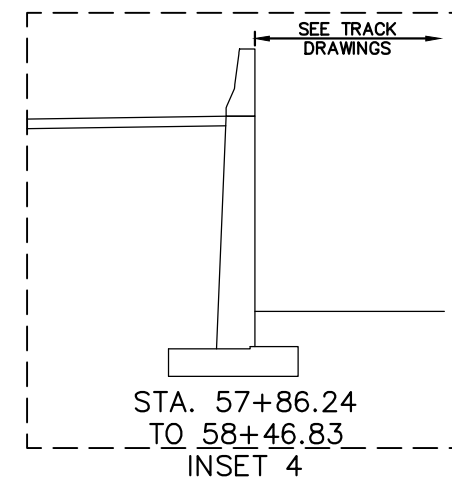
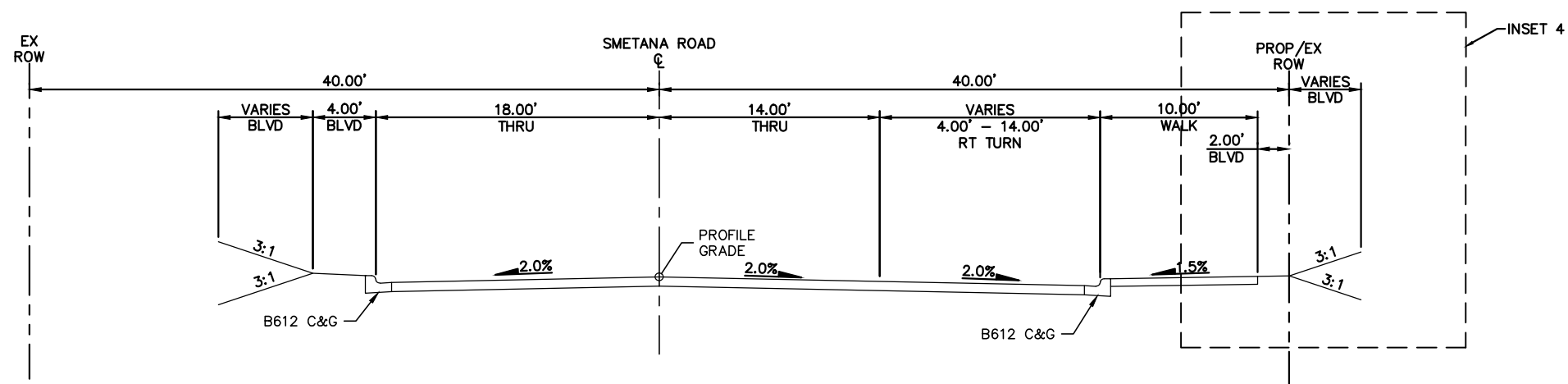


CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 15

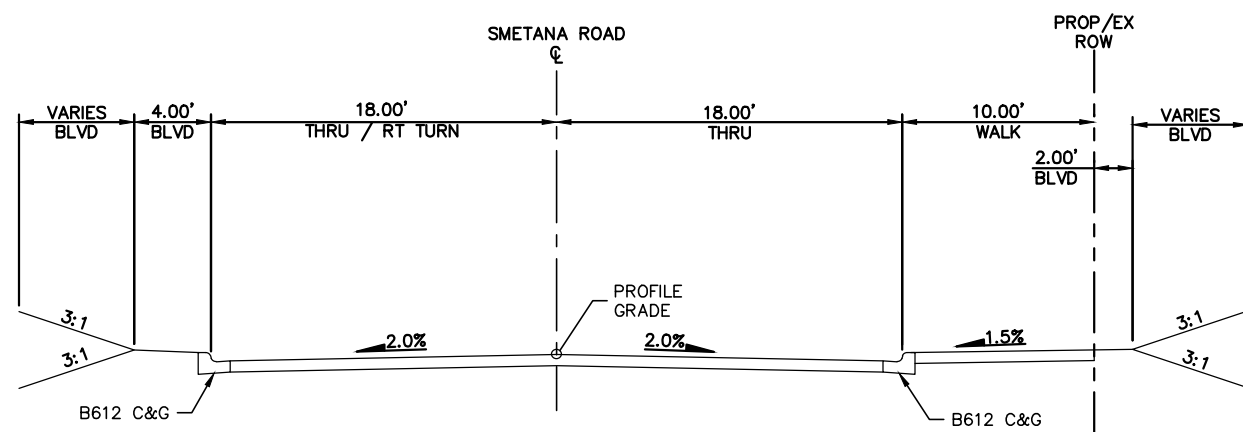
DISCIPLINE: CIVIL
SHEET NAME: W3-CIV-TYP-002

SHEET
48
OF
140

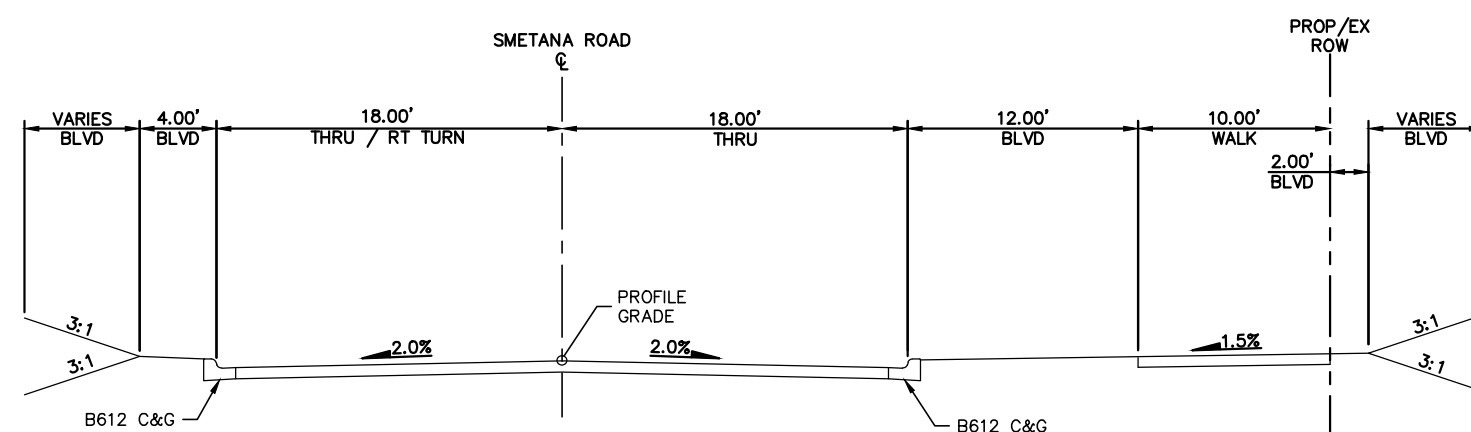
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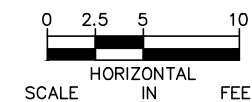
SMETANA ROAD
STA. 57+33.01 TO STA. 59+79.25



SMETANA ROAD
STA. 56+65.00 TO STA. 57+33.01



SMETANA ROAD
STA. 59+79.25 TO STA. 62+80.00



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COUNCIL

SOUTHWEST
Green Line LRT Extension

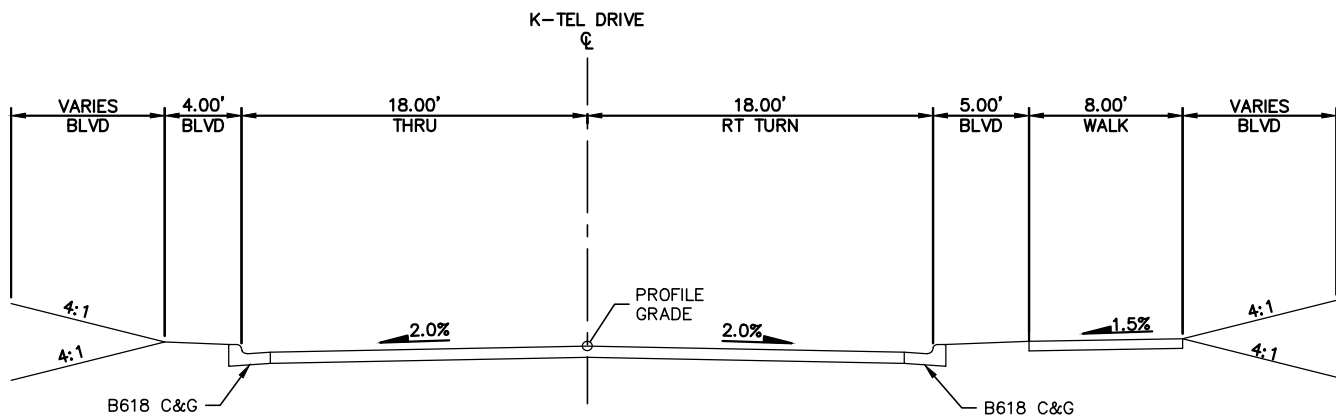
**CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 16**

DISCIPLINE:
CIVIL

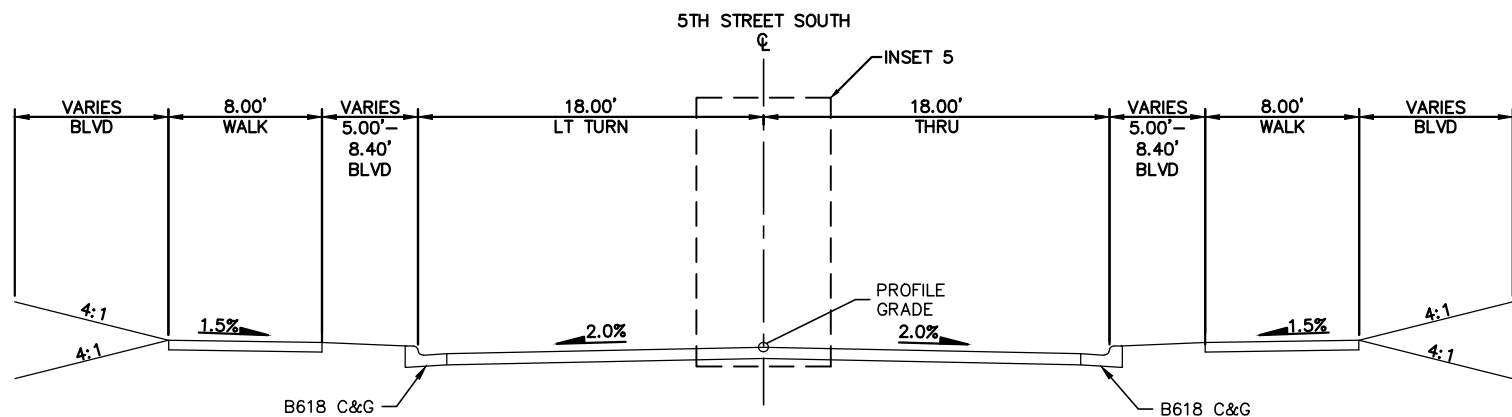
SHEET NAME:
W3-CIV-TYP-003

**SHEET
49
OF
140**

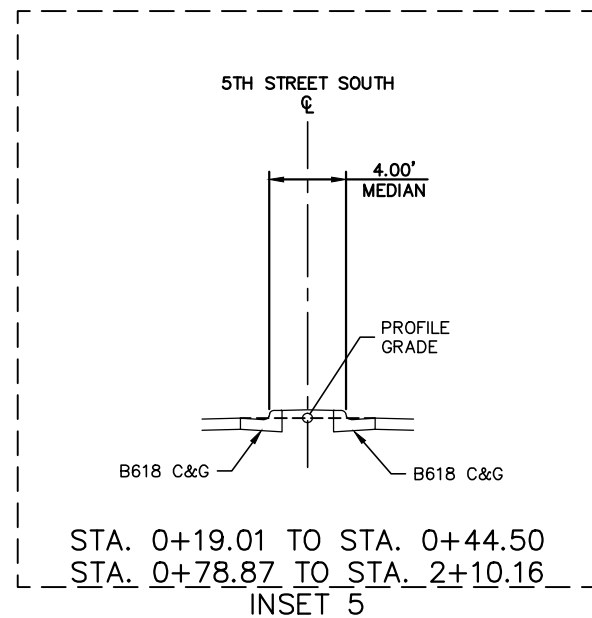
60% SUBMISSION - 09/28/15



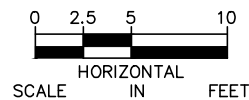
K-TEL DRIVE
STA. 5+30.49 TO STA. 8+31.04



5TH STREET SOUTH
STA. 0+00.00 TO STA. 3+96.19



STA. 0+19.01 TO STA. 0+44.50
STA. 0+78.87 TO STA. 2+10.16
INSET 5



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COUNCIL

SOUTHWEST
Green Line LRT Extension

**CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 17**

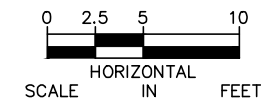
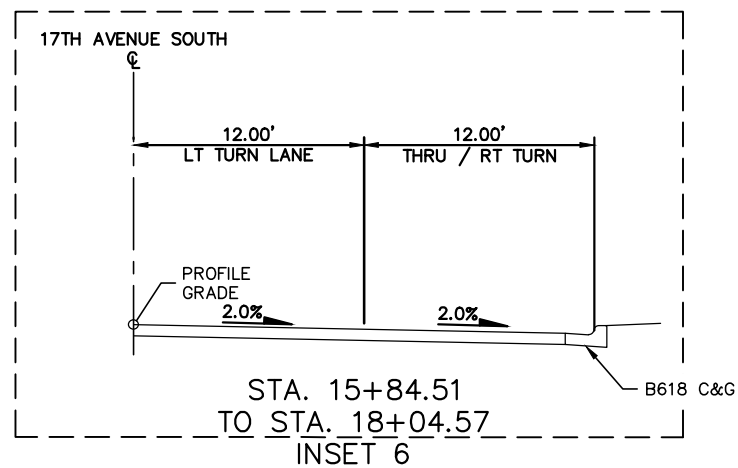
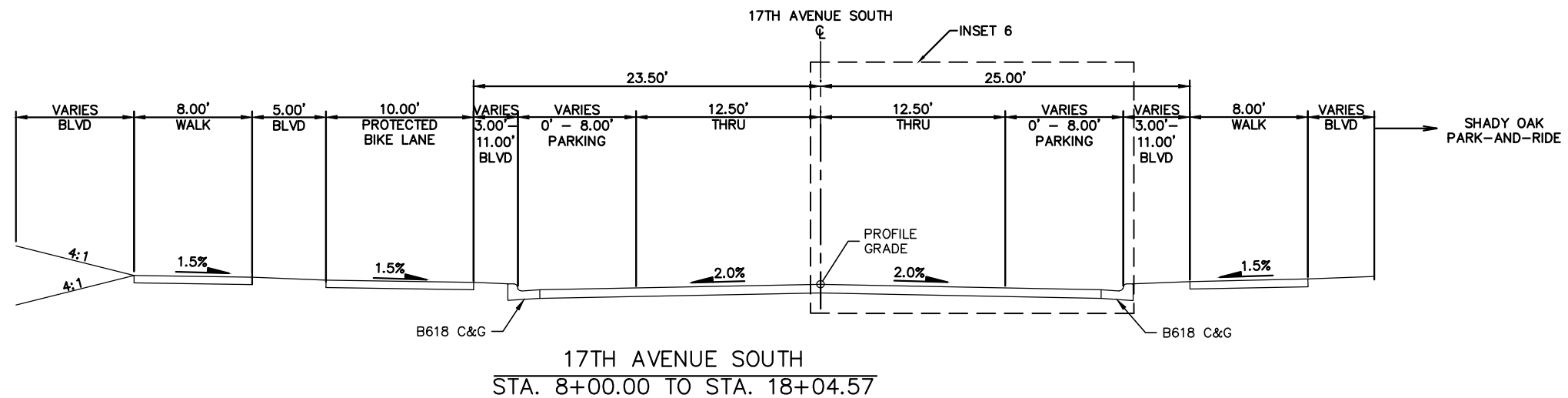
DISCIPLINE: **CIVIL**

SHEET NAME: **W3-CIV-TYP-004**

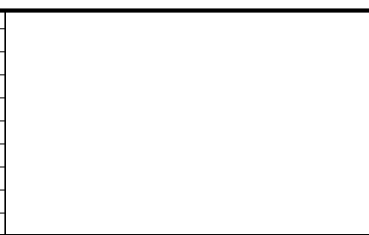
60% SUBMISSION - 09/28/15

SHEET
50
OF
140

Sep. 22 2015 12:33 pm v:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TYP.dwg By: kncclement



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60% SUBMISSION - 09/28/15

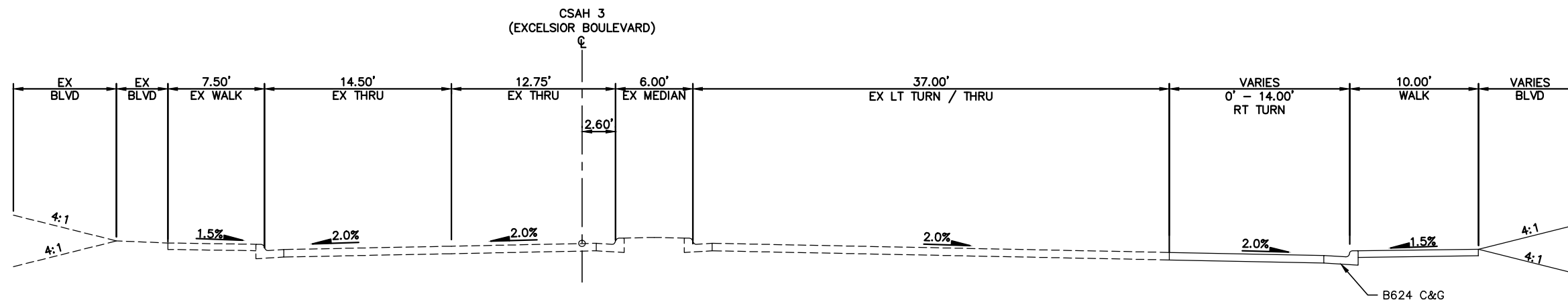


CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 18

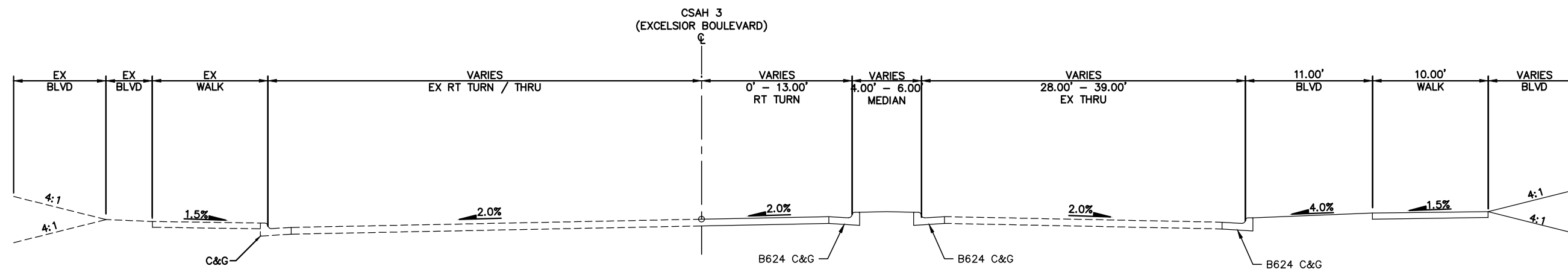
DISCIPLINE: CIVIL
SHEET NAME: W3-CIV-TYP-005

SHEET
51
OF
140

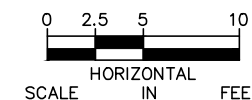
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CSAH 3 (EXCELSIOR BOULEVARD)
STA. 301+95.15 TO STA. 305+00.00



CSAH 3 (EXCELSIOR BOULEVARD)
STA. 305+00.00 TO STA. 307+14.03



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CONSULTING GROUP, INC.

SOUTHWEST
Green Line LRT Extension

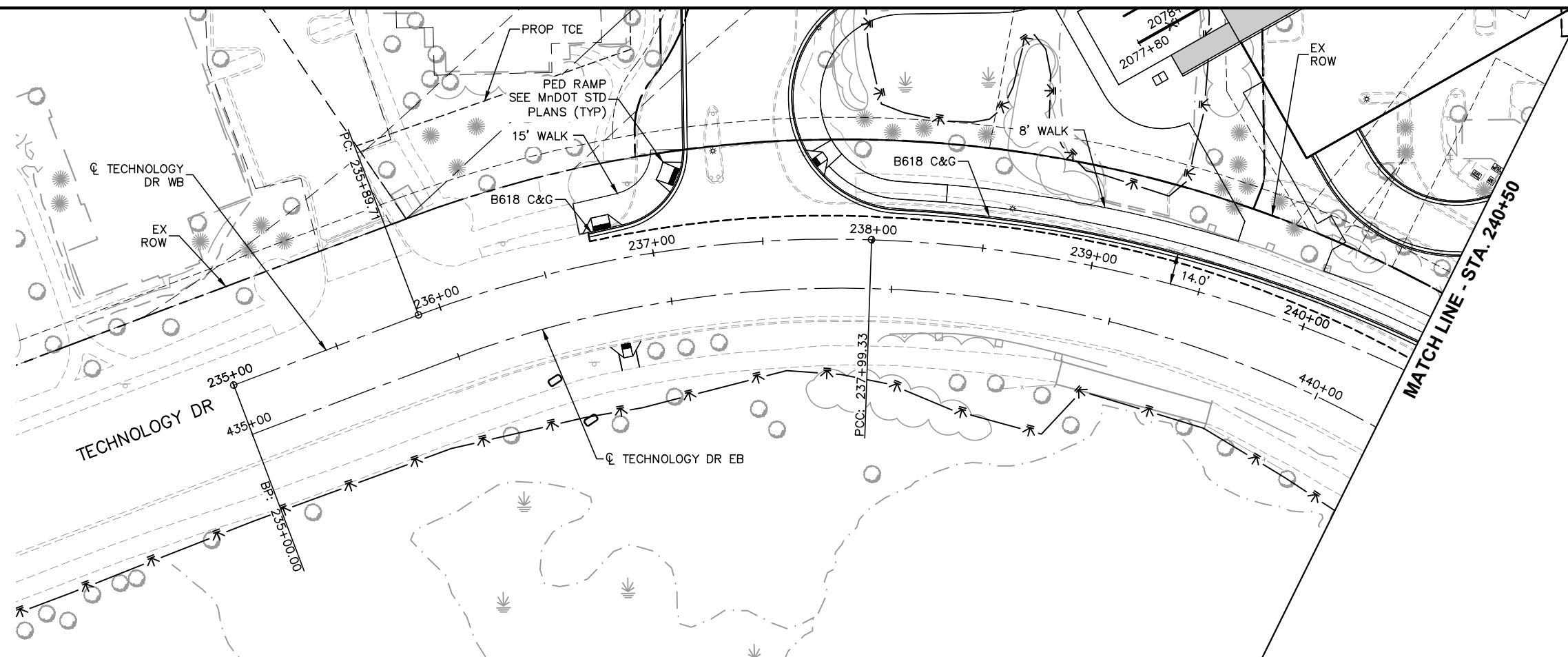
**CIVIL WEST - VOLUME 2
ROADWAY
TYPICAL SECTIONS
SHEET 19**

DISCIPLINE:
CIVIL

SHEET NAME:
W3-CIV-TYP-006

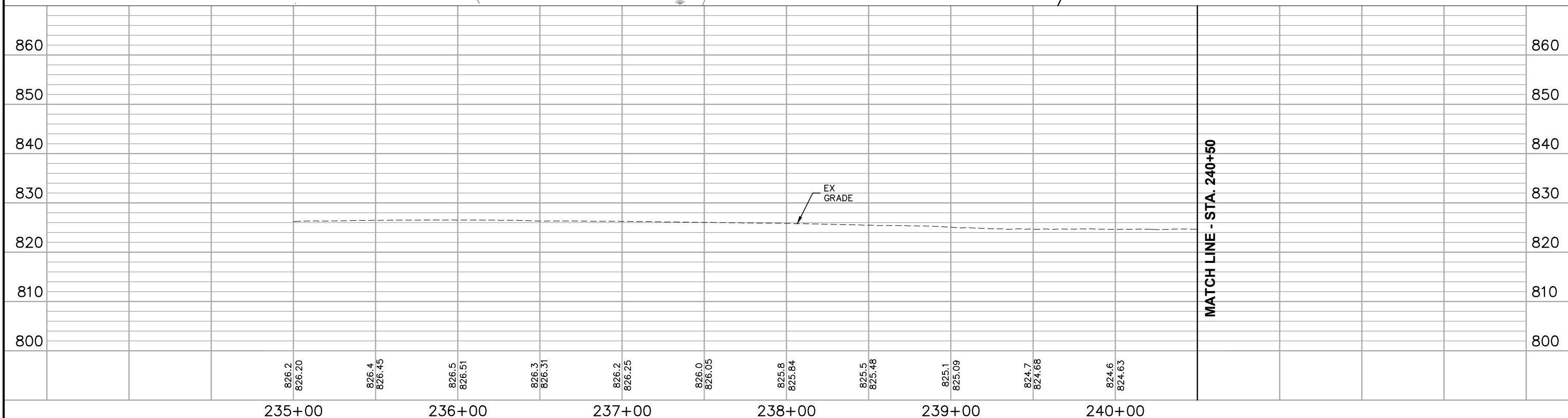
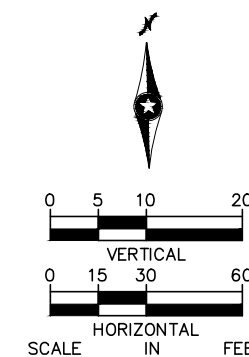
**SHEET
52
OF
140**

60% SUBMISSION - 09/28/15

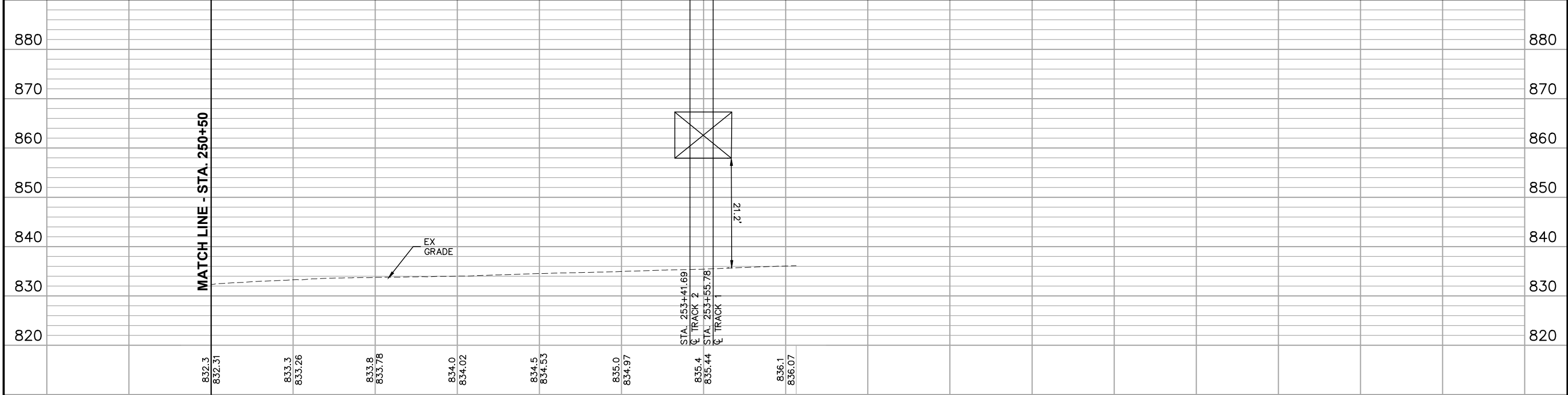


- CONSTRUCTION NOTES
-
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- ## NOTES
-
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

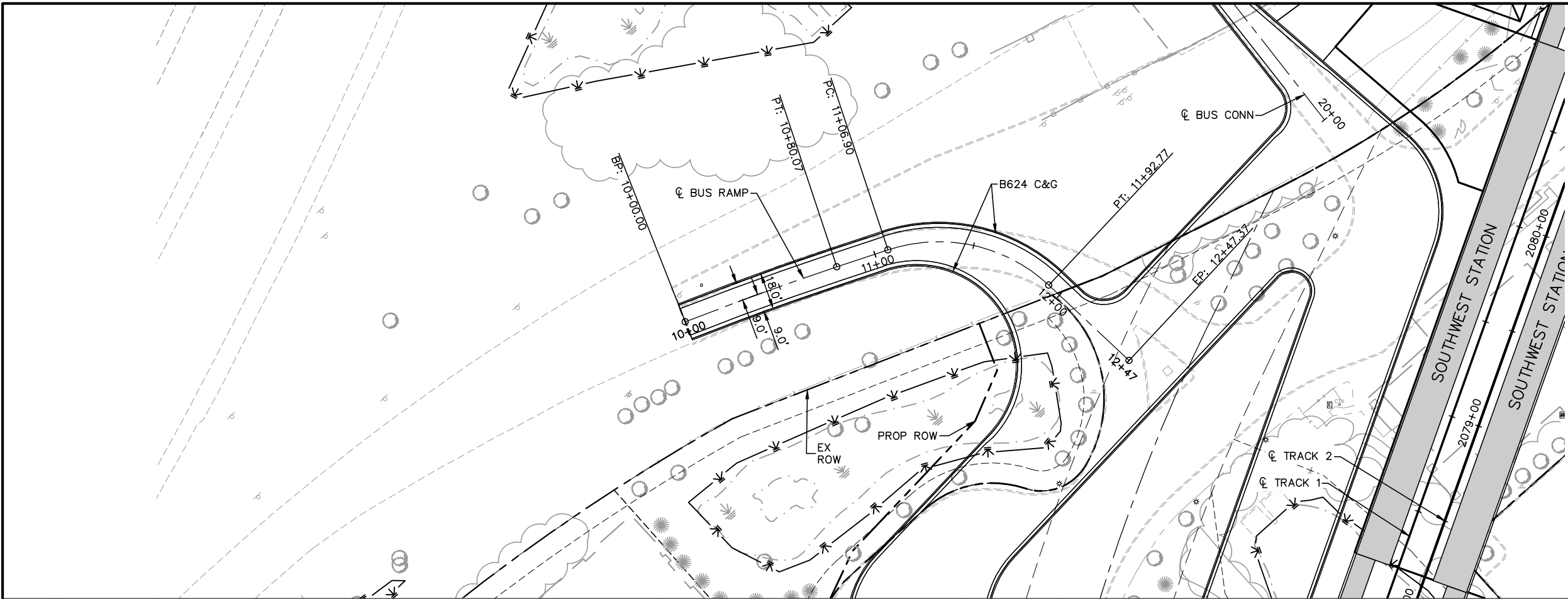


NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	   		CIVIL WEST - VOLUME 2 TECHNOLOGY DRIVE PLAN AND PROFILE STA. 235+00 TO STA. 240+50	SHEET 53 OF 140
						60% SUBMISSION - 09/28/15	DISCIPLINE: CIVIL	SHEET NAME: W1-CIV-PRF-001	



251+00						252+00						253+00						254+00						CIVIL WEST - VOLUME 2 TECHNOLOGY DRIVE PLAN AND PROFILE STA. 250+50 TO STA. 254+06						SHEET 56 OF 140	
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	AECOM SRH Consulting Group, Inc. METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension 												DISCIPLINE: CIVIL				SHEET NAME: W1-CIV-PRF-004									

Sep. 22 2015 12:36 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmcclement

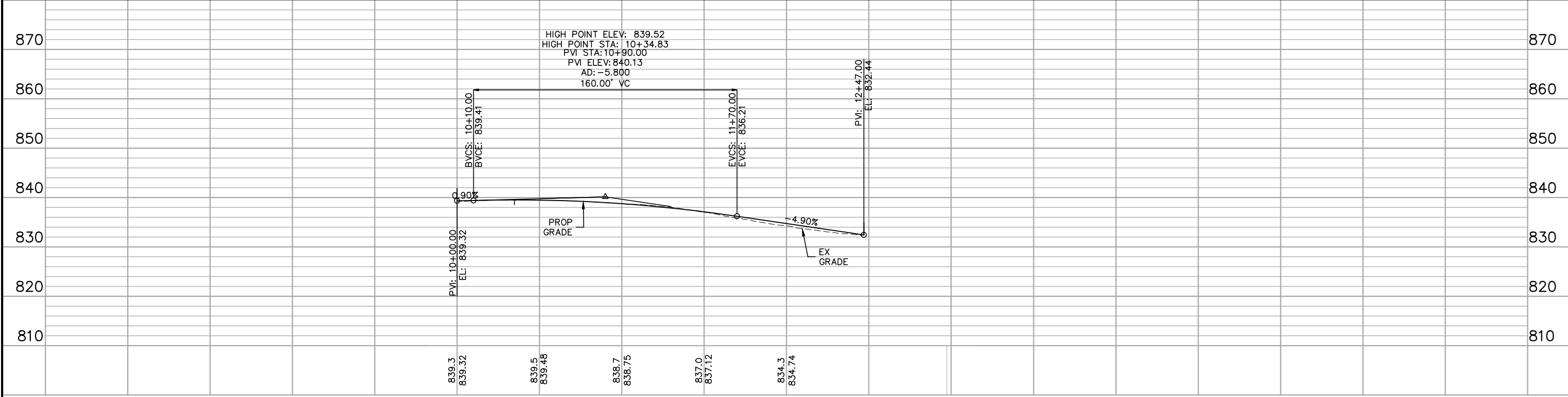
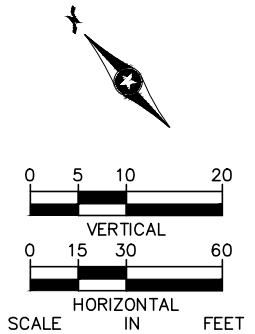


CONSTRUCTION NOTES

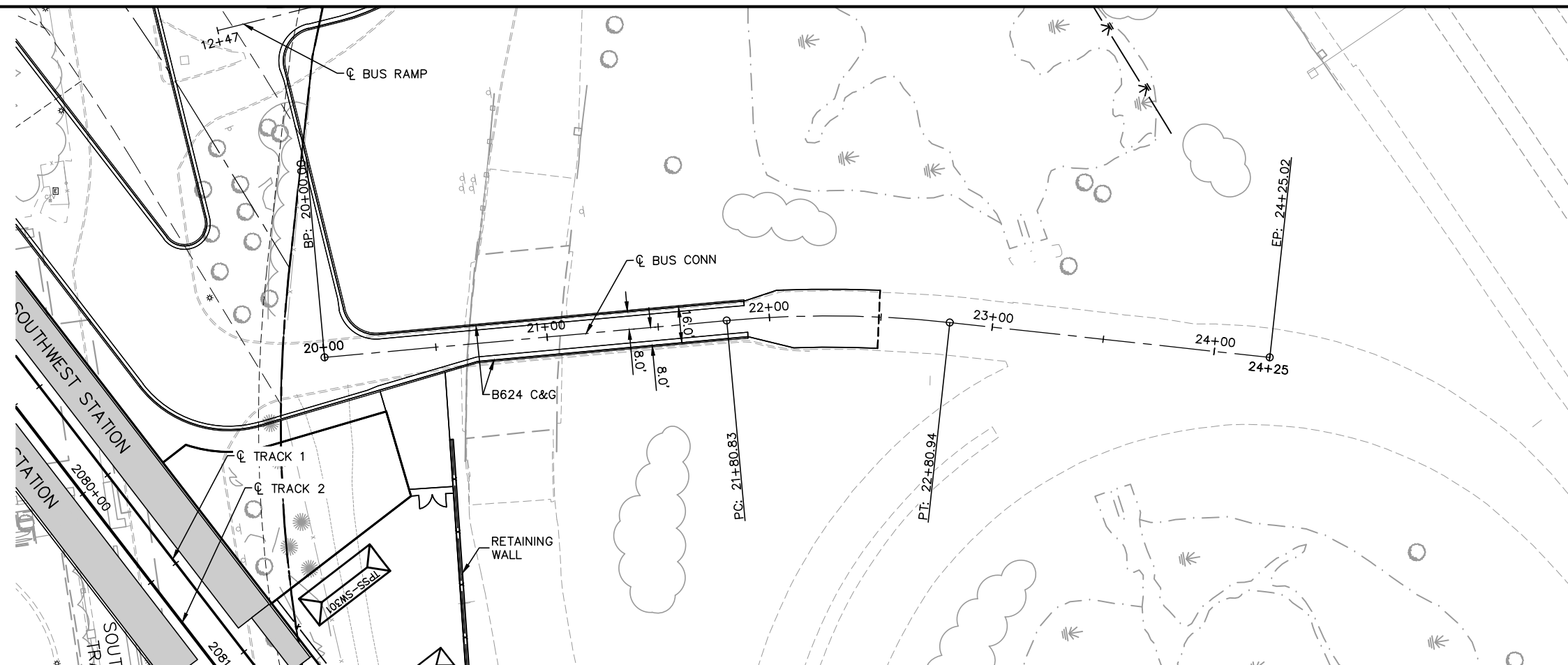
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



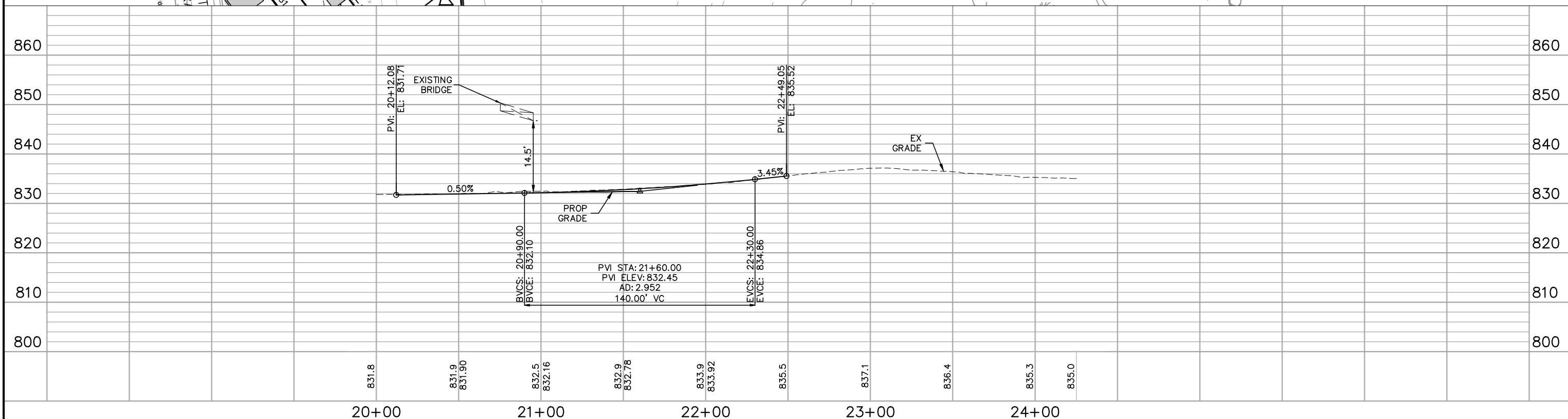
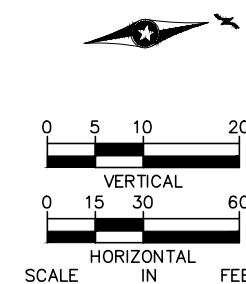
NO.						DATE		BY		CHECK/DESIGN		REVISION / SUBMITTAL	



- CONSTRUCTION NOTES
-
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

[illegible]

60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 2
BUS CONNECTION
PLAN AND PROFILE
STA. 20+00 TO STA. 24+25**

DISCIPLINE:

CIVIL

SHEET NAME:

W1-CIV-PRF-006

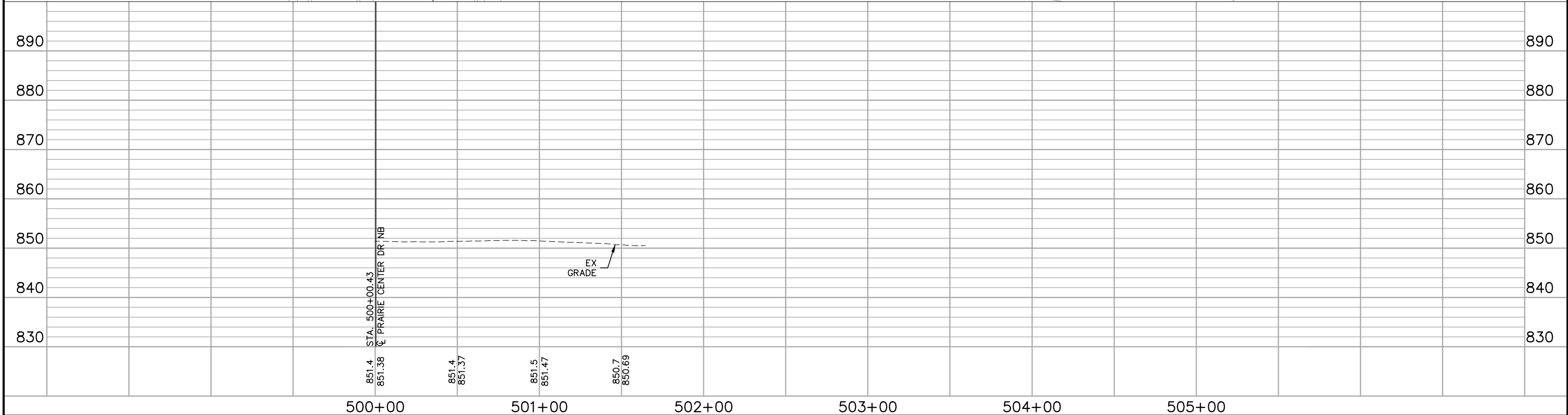
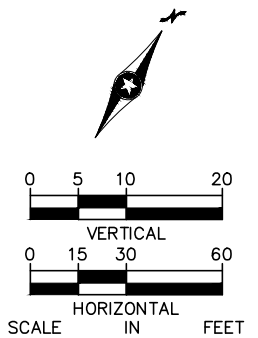
SHEET

58

OF

140

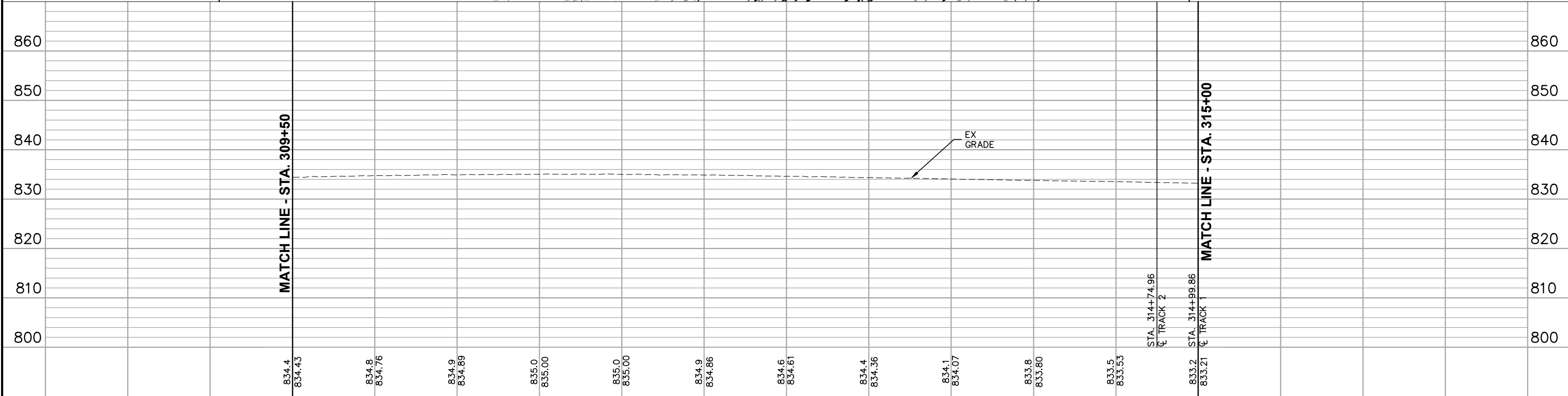
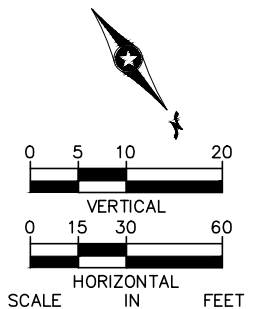
- | NOTES | |
|-------|--|
| 1. | ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED |
| 2. | SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION |
| 3. | FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND" |



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NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



315+00

[illegible]

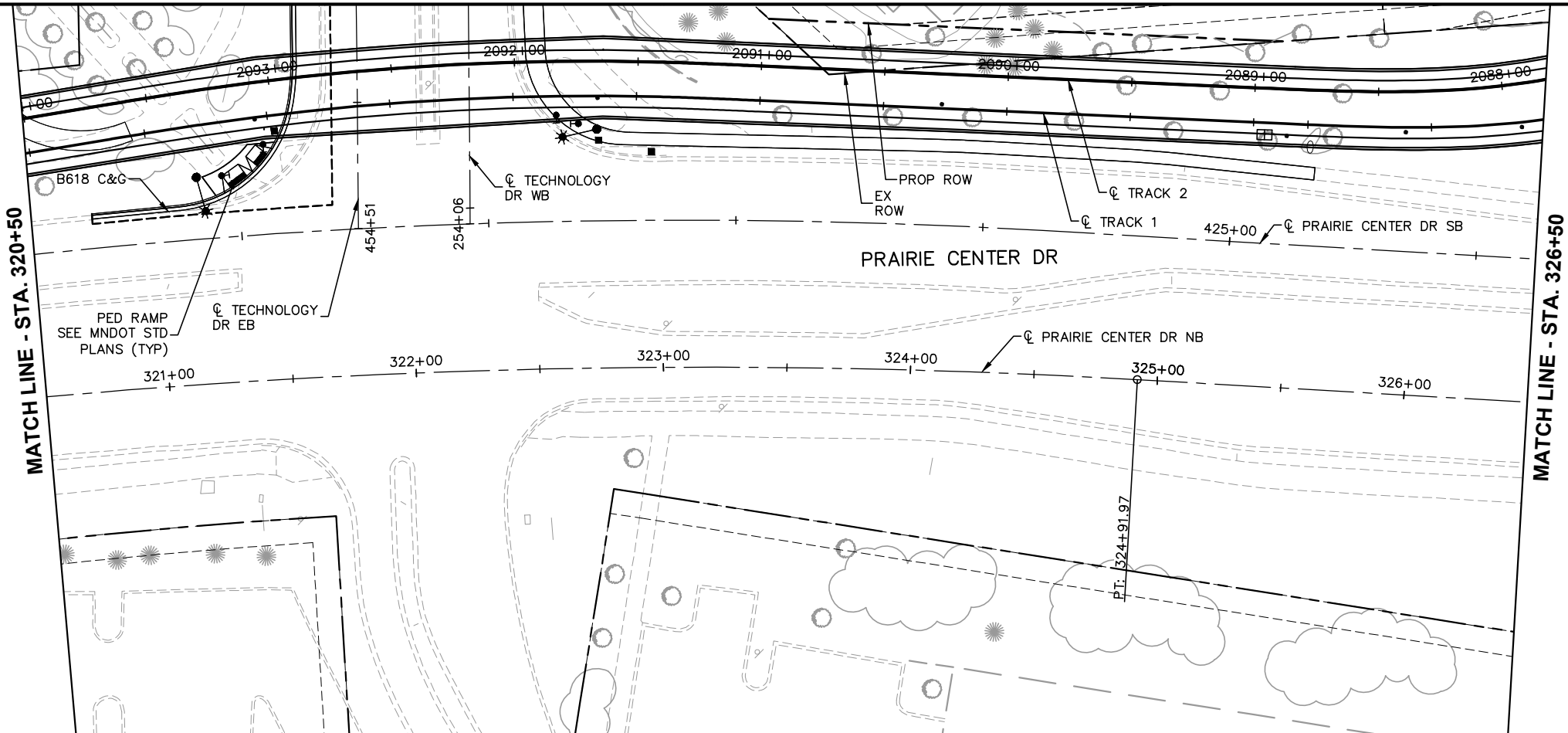
**CIVIL WEST - VOLUME 2
PRAIRIE CENTER DRIVE
PLAN AND PROFILE
STA. 309+50 TO STA. 315+00**

DISCIPLINE: **CIVIL**

SHEET NAME:	W1-CIV-PRF-009
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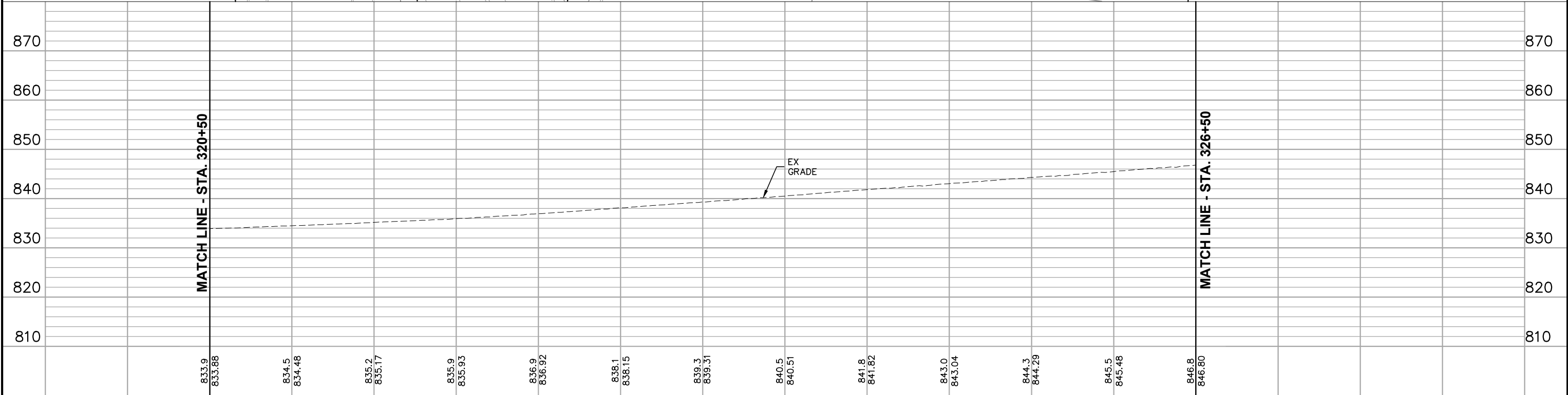
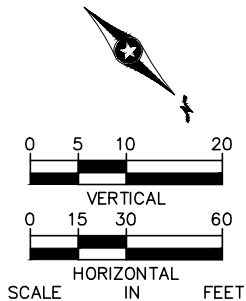
SHEET
61
OF
140

Sep. 22 2015 12:39 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmclement



- CONSTRUCTION NOTES
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
- 1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 - 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 - 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

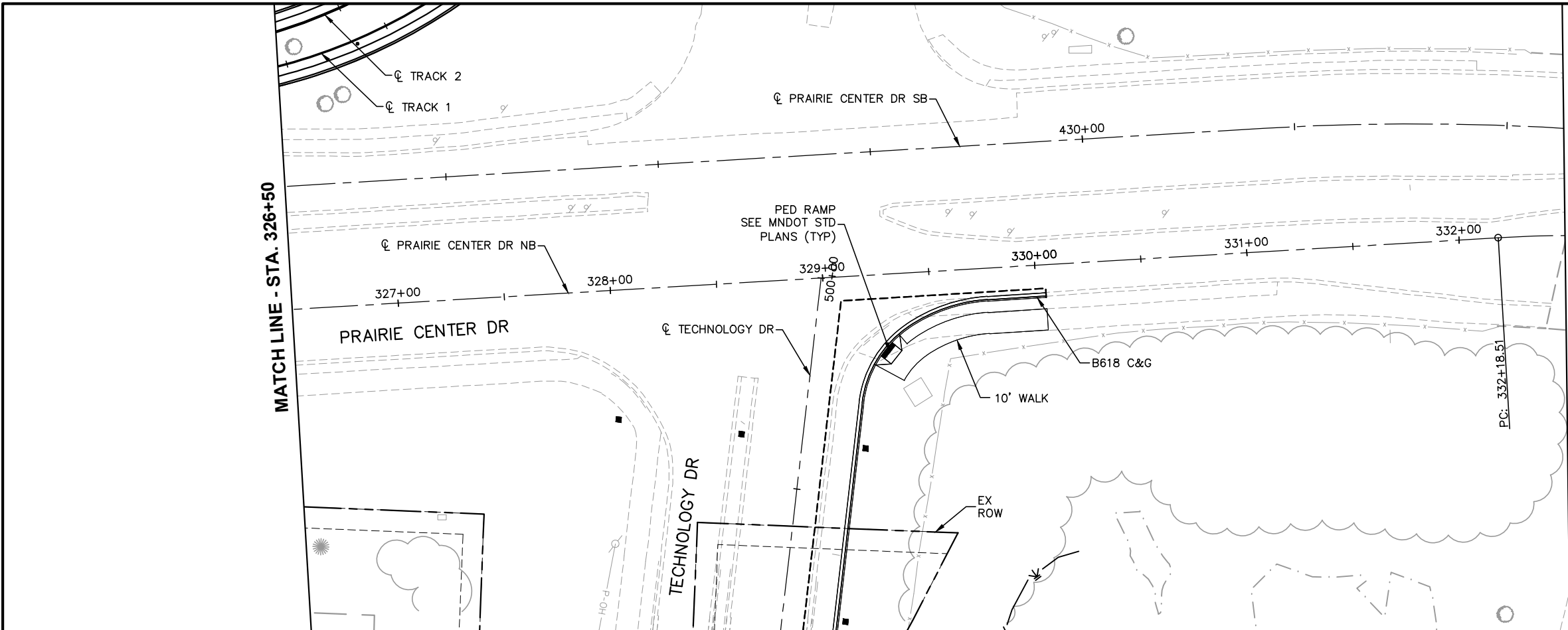


NO.						DATE		BY		CHECK		DESIGN		REVISION / SUBMITTAL	

833.9 833.88		834.5 834.48		835.2 835.17		835.9 835.93		836.9 836.92		838.1 838.15		839.3 839.31		840.5 840.51		841.8 841.82		843.0 843.04		844.3 844.29		845.5 845.48		846.8 846.80	
321+00		322+00		323+00		324+00		325+00		326+00															

AECOM SRI Consulting Group, Inc. METROPOLITAN C O U N C I L SOUTHWEST Green Line LRT Extension										CIVIL WEST - VOLUME 2 PRAIRIE CENTER DRIVE PLAN AND PROFILE STA. 320+50 TO STA. 326+50					DISCIPLINE: CIVIL		SHEET NAME: W1-CIV-PRF-011		SHEET 63 OF 140	
60% SUBMISSION - 09/28/15																				

Sep. 22 2015 12:40 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmclement

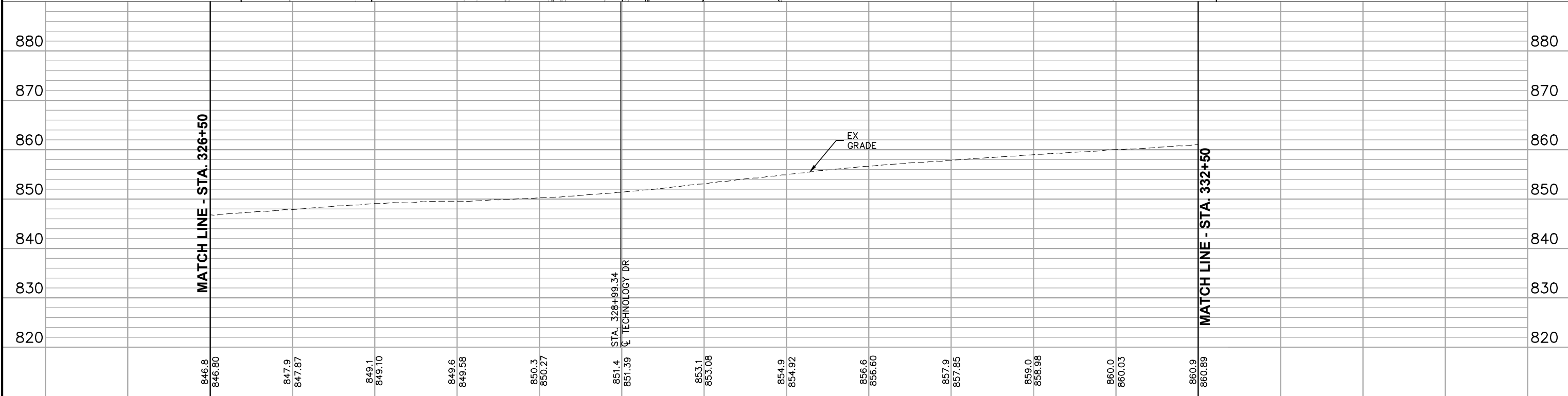
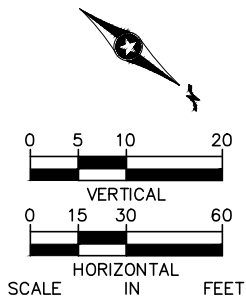


CONSTRUCTION NOTES

- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

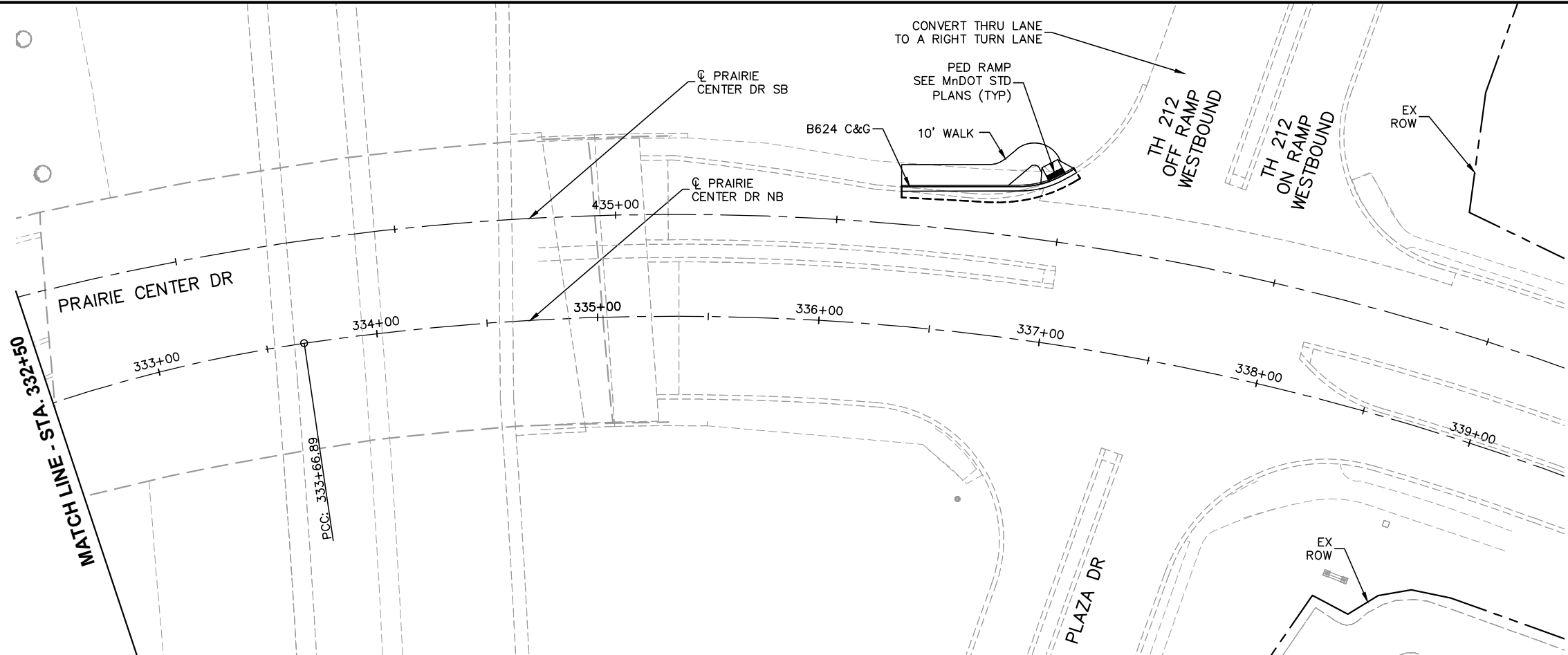
NOTES

- 1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
- 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
- 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



327+00						328+00						329+00						330+00						331+00						332+00						CIVIL WEST - VOLUME 2 PRAIRIE CENTER DRIVE PLAN AND PROFILE STA. 326+50 TO STA. 332+50		SHEET 64 OF 140																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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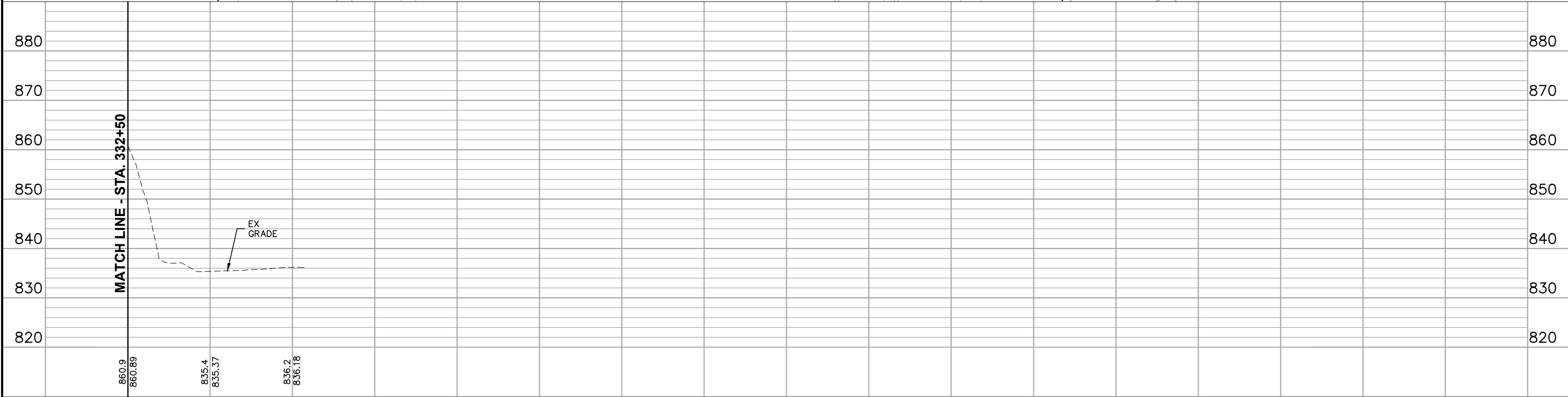
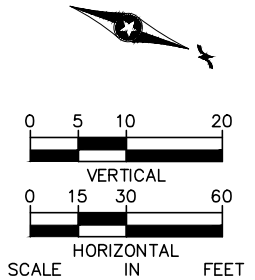


CONSTRUCTION NOTES

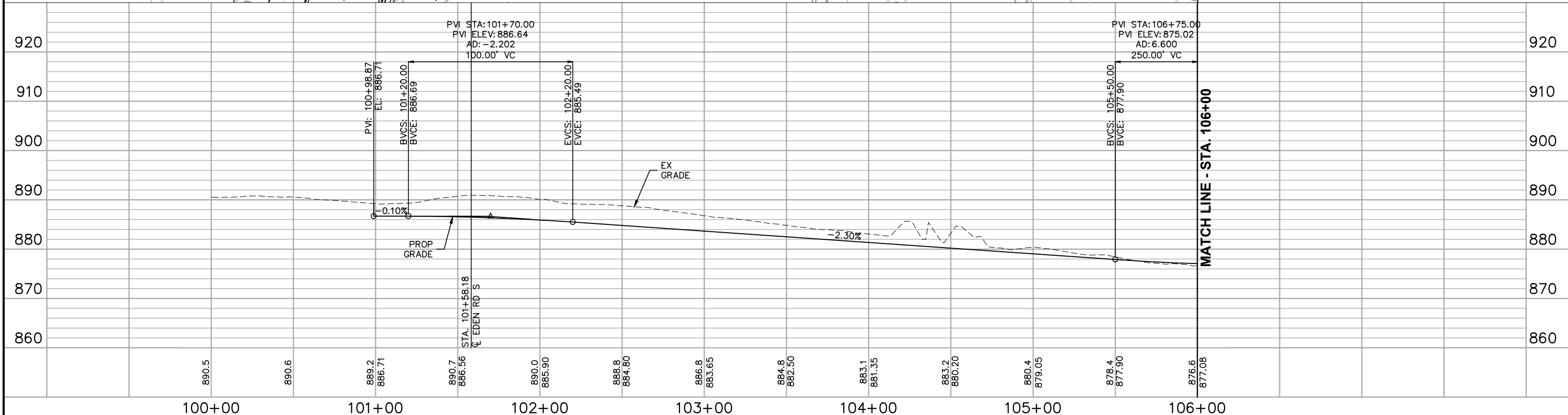
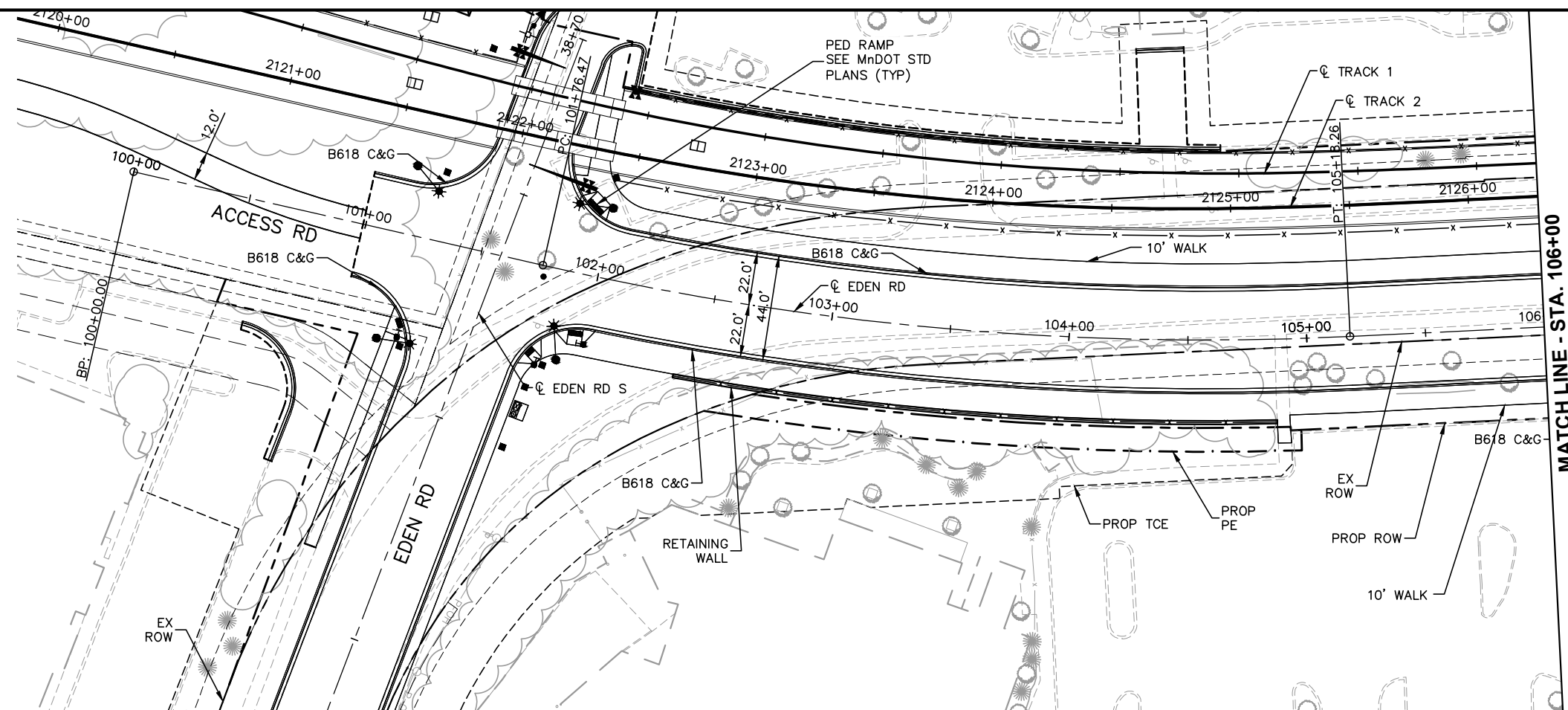
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

- 1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
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- 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



333+00						334+00						335+00						336+00						337+00						338+00						339+00						SHEET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	AECOM 						METROPOLITAN COUNCIL 						CIVIL WEST - VOLUME 2 PRAIRIE CENTER DRIVE PLAN AND PROFILE STA. 332+50 TO STA. 339+50						SHEET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

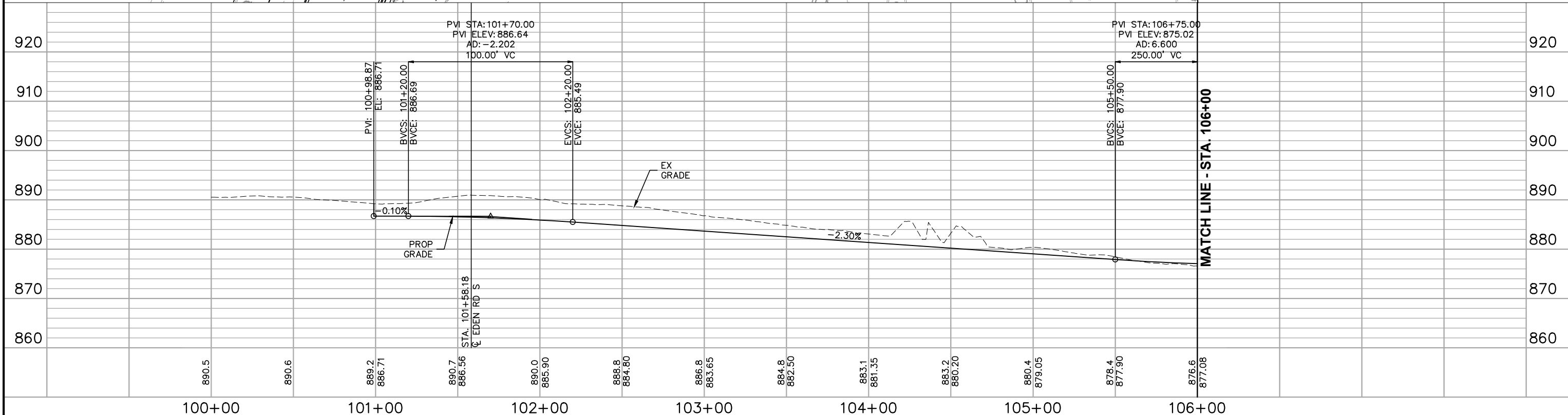
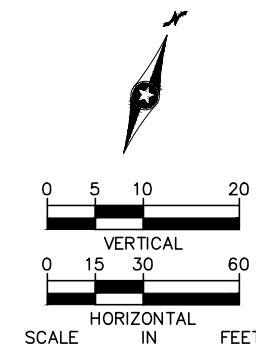


CONSTRUCTION NOTES

- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

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**CIVIL WEST - VOLUME 2
EDEN ROAD
PLAN AND PROFILE
STA. 100+00 TO STA. 106+00**

DISCIPLINE:

CIVIL

SHEET NAME:

W1-CIV-PRF-014

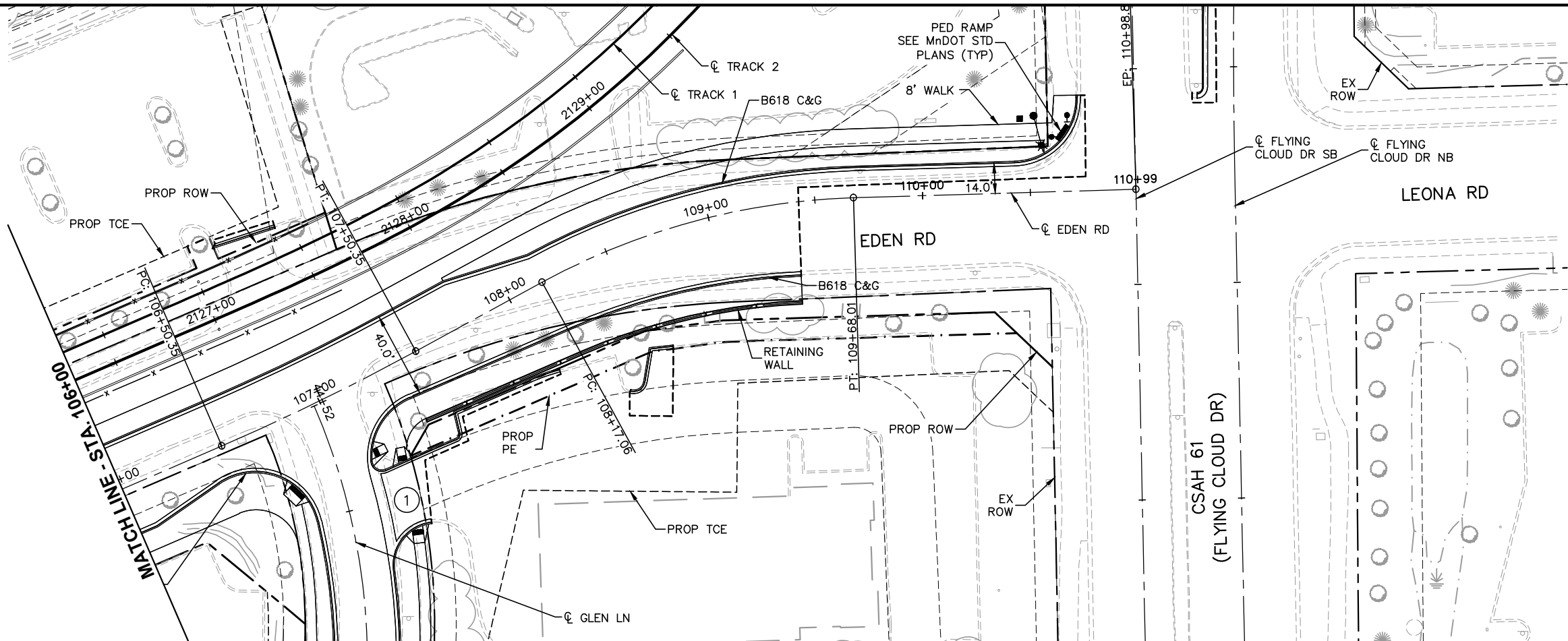
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66

OF

140

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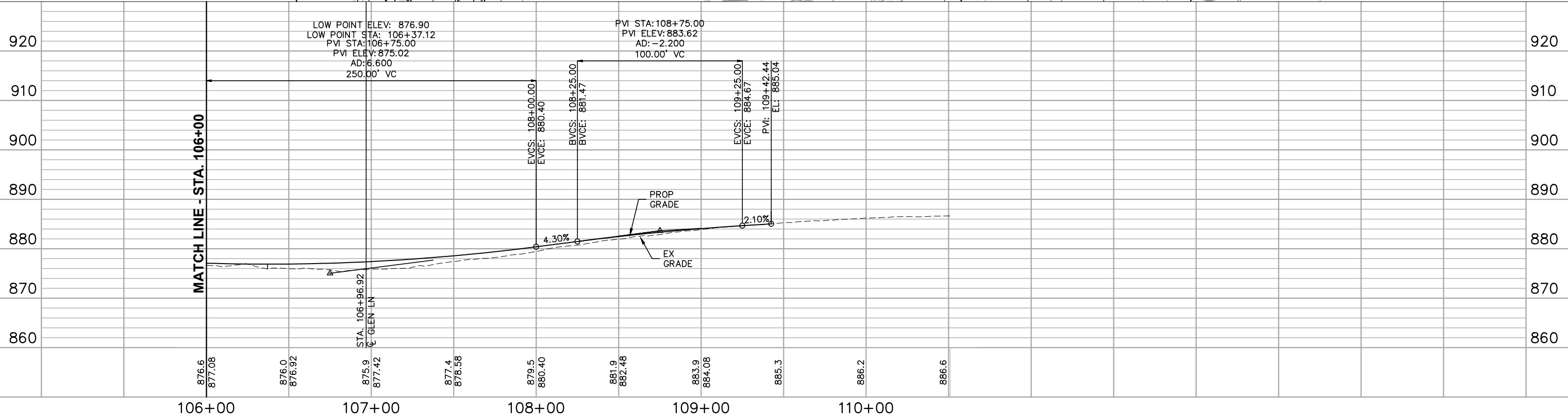
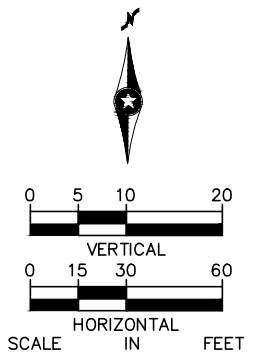


CONSTRUCTION NOTES

- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15



60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 2
EDEN ROAD
PLAN AND PROFILE
STA. 106+00 TO STA. 110+94

DISCIPLINE: CIVIL

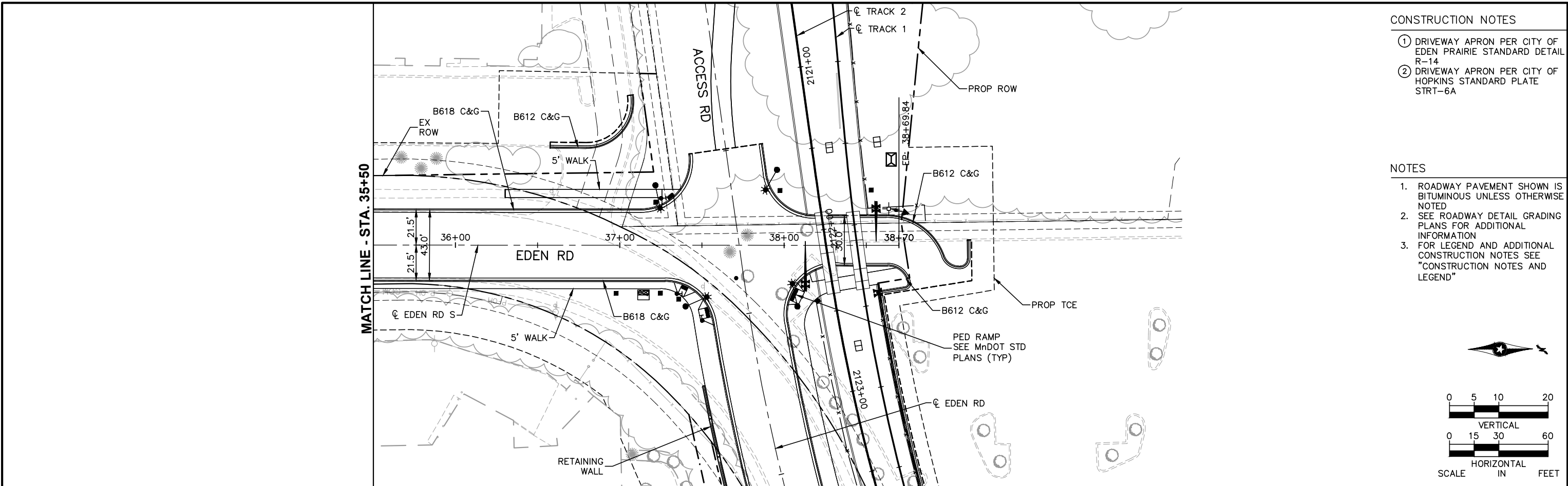
SHEET NAME: W1-CIV-PRF-015

SHEET 67 OF 140



30+00						31+00	32+00	33+00	34+00	35+00	SHEET		
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	  60% SUBMISSION - 09/28/15			 		CIVIL WEST - VOLUME 2 EDEN ROAD SOUTH PLAN AND PROFILE STA. 30+00 TO STA. 35+50		68
OF													
140													
									DISCIPLINE: CIVIL		SHEET NAME: W1-CIV-PRF-016		

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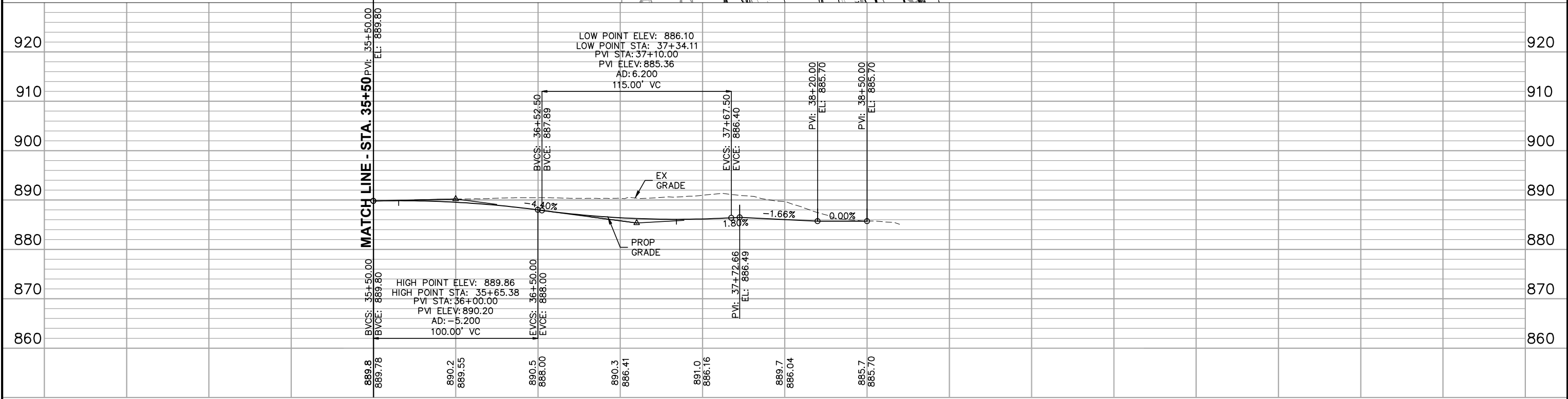
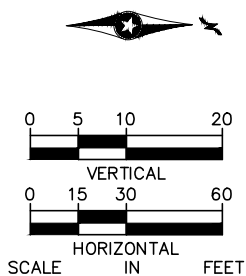


CONSTRUCTION NOTES

- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

- 1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
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- 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

CIVIL

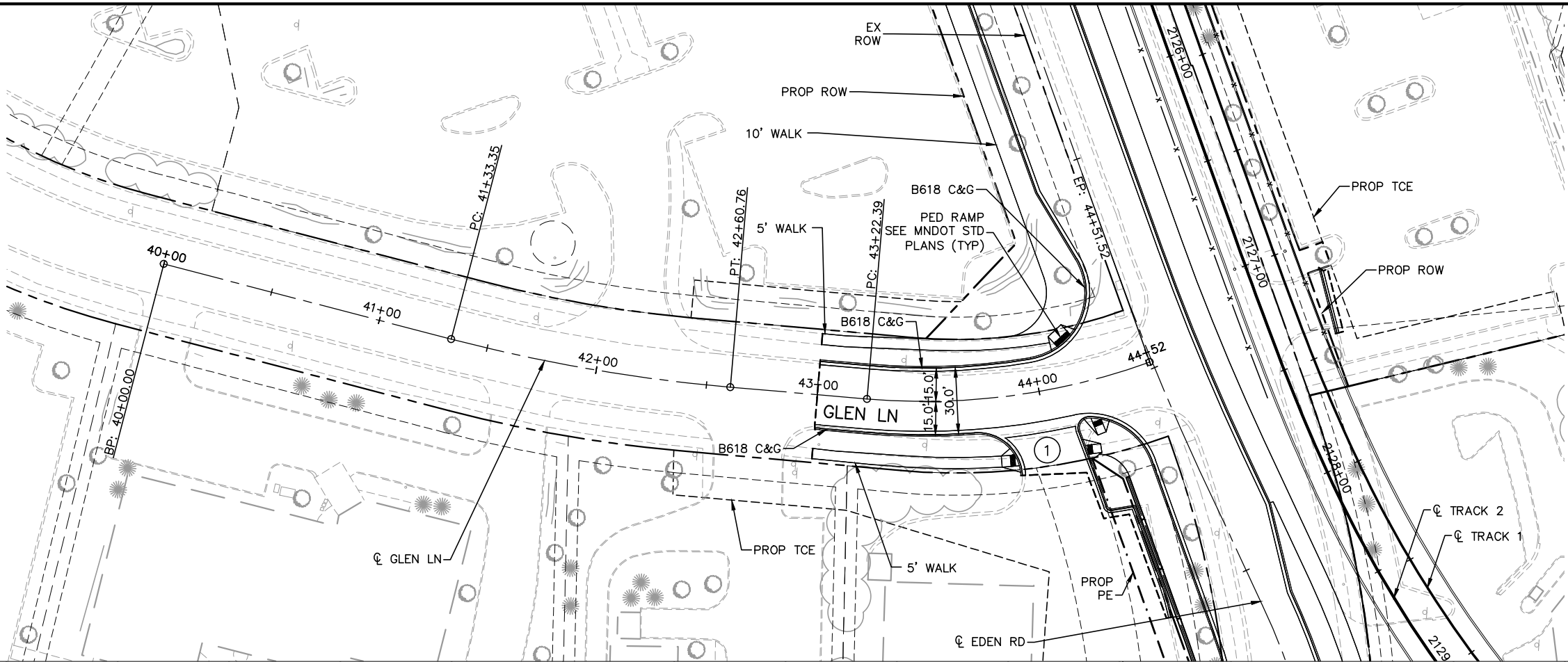
W1-CIV-PRF-017

CIVIL WEST - VOLUME 2
EDEN ROAD SOUTH
PLAN AND PROFILE
STA. 35+50 TO STA. 38+70

60% SUBMISSION - 09/28/15

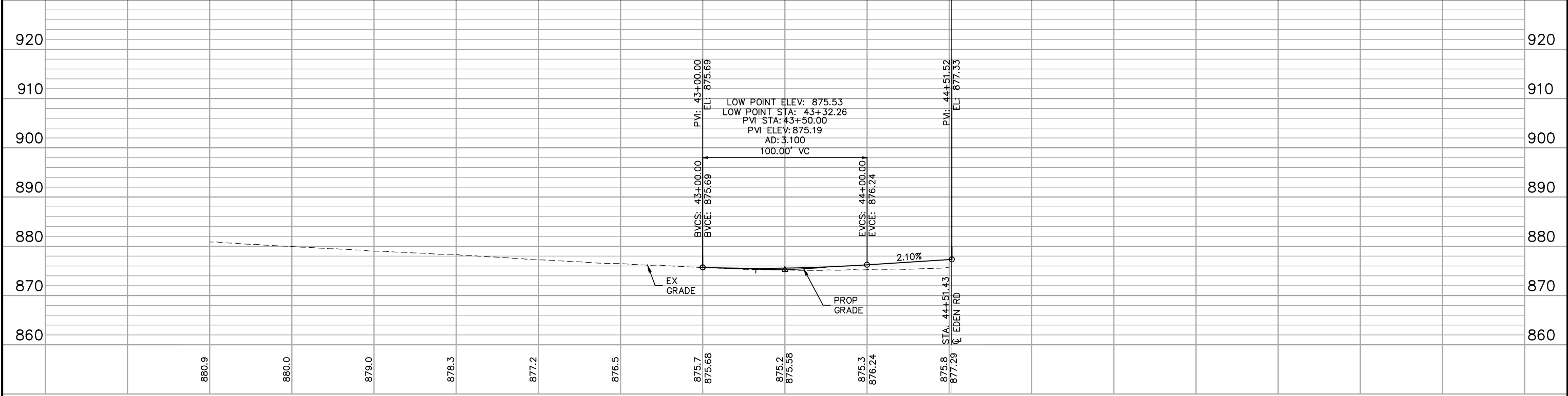
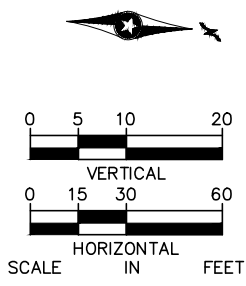
SHEET 69 OF 140

Sep. 22 2015 12:43 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmclement



- CONSTRUCTION NOTES
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
- 1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
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 - 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

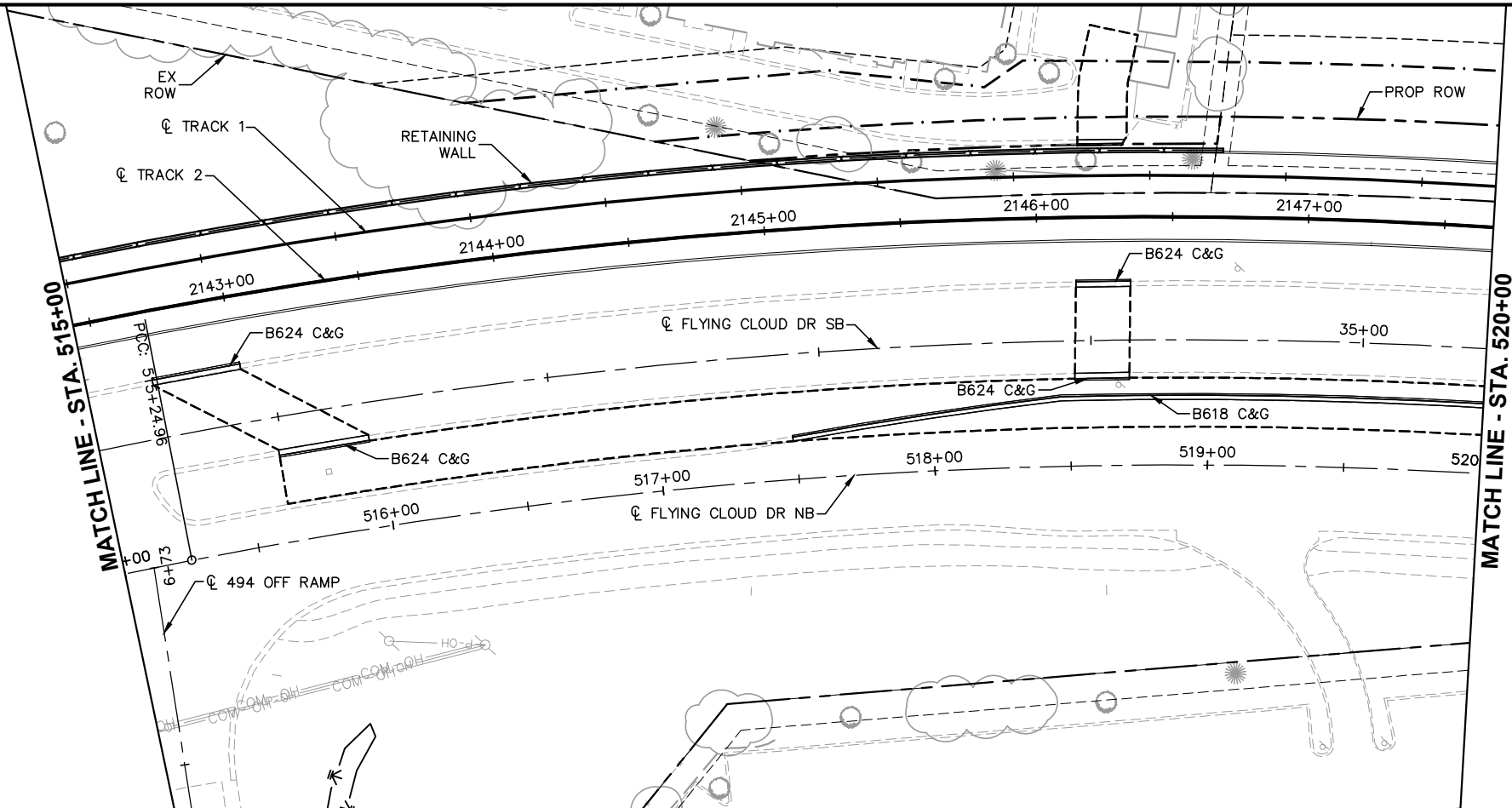
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 2
GLEN LANE
PLAN AND PROFILE
STA. 40+00 TO STA. 44+52

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-018

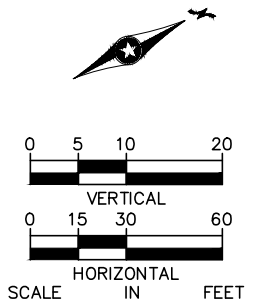
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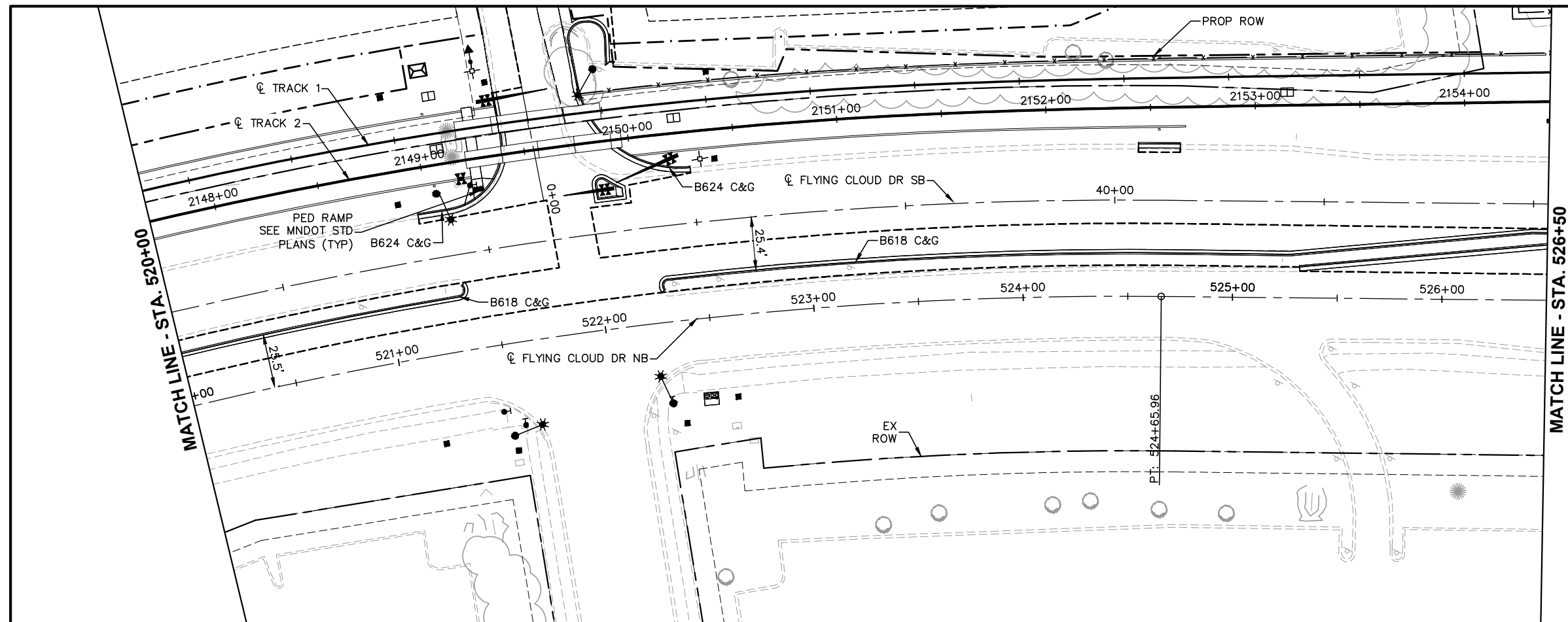


- CONSTRUCTION NOTES
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
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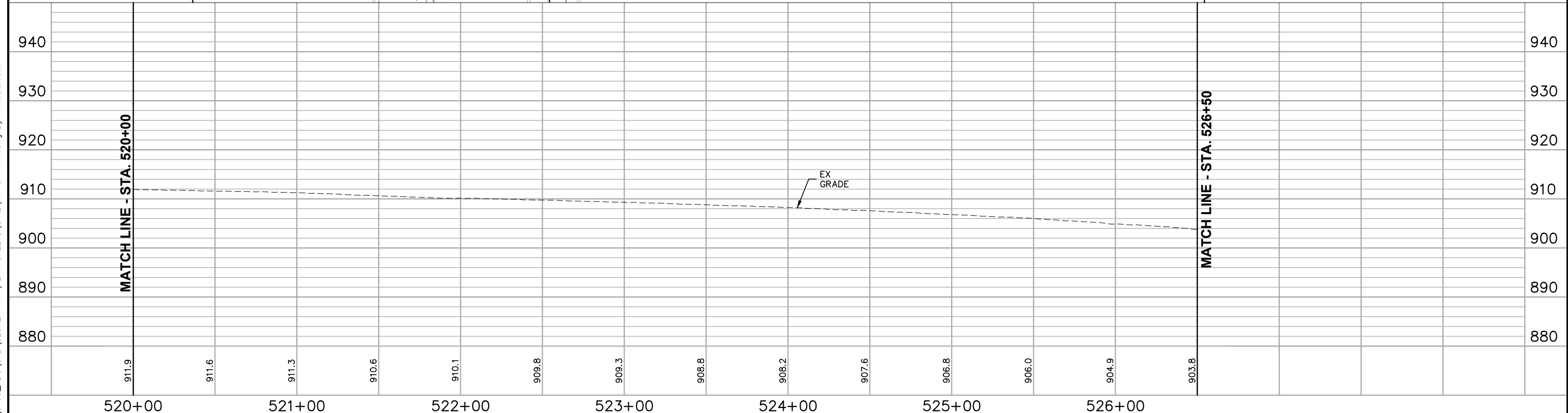
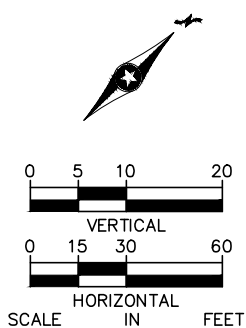


515+00						516+00						517+00						518+00						519+00						520+00						CIVIL WEST - VOLUME 2 FLYING CLOUD DRIVE PLAN AND PROFILE STA. 515+00 TO STA. 520+00		SHEET 73 OF 140	
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	AECOM SRI Consulting Group, Inc. 60% SUBMISSION - 09/28/15												METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension												DISCIPLINE: CIVIL			SHEET NAME: W1-CIV-PRF-021						

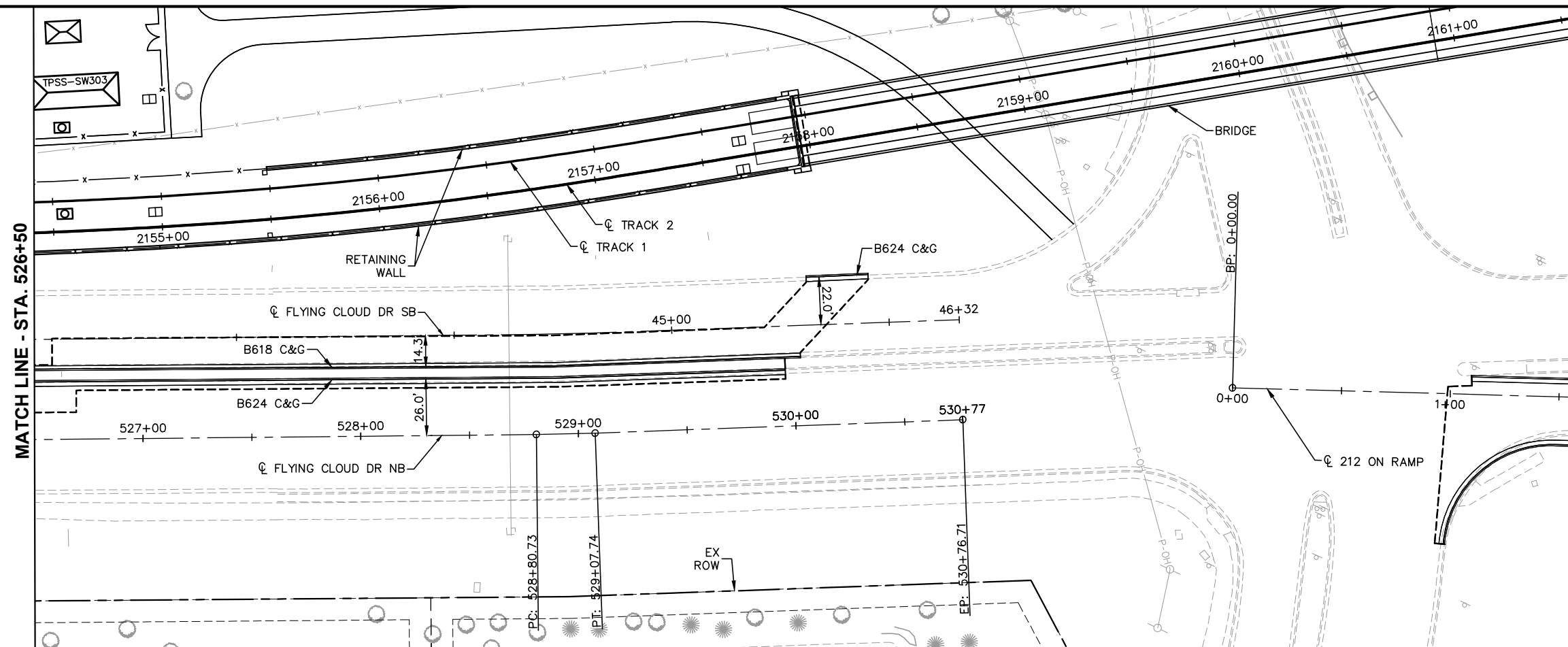


- | CONSTRUCTION NOTES | |
|--------------------|--|
| ① | DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14 |
| ② | DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A |

- | NOTES | |
|-------|--|
| 1. | ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED |
| 2. | SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION |
| 3. | FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND" |

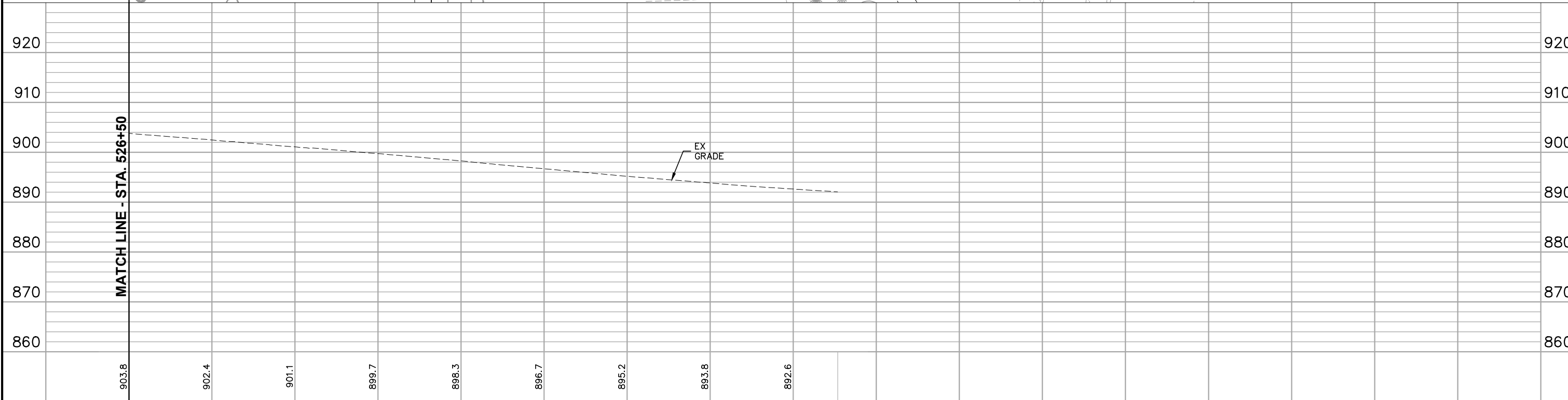
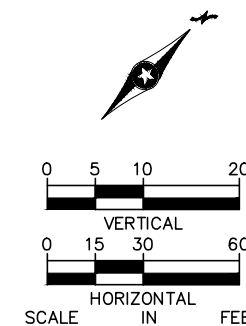


NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	   	CIVIL WEST - VOLUME 2 FLYING CLOUD DRIVE PLAN AND PROFILE STA. 520+00 TO STA. 526+50		SHEET 74 OF 140
							DISCIPLINE: CIVIL		
							SHEET NAME: W1-CIV-PRF-022		
						60% SUBMISSION - 09/28/15			



- CONSTRUCTION NOTES
-
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- ## NOTES
-
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
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527+00

528+00

529+00

530+00

[illegible]

**CIVIL WEST - VOLUME 2
FLYING CLOUD DRIVE
PLAN AND PROFILE
STA. 526+50 TO STA. 530+77**

DISCIPLINE:

CIVIL

SHEET NAME:

W1-CIV-PRF-023

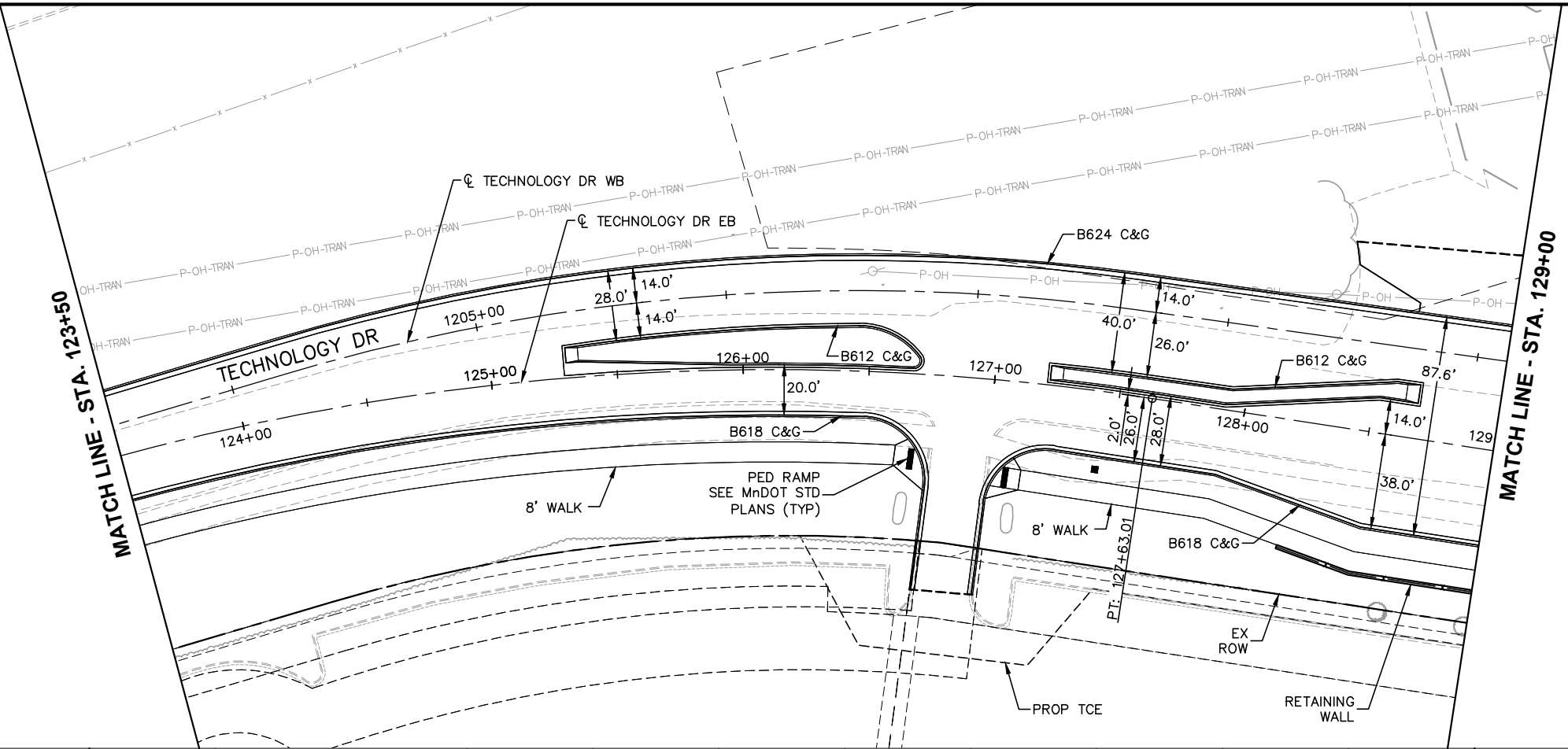
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OF

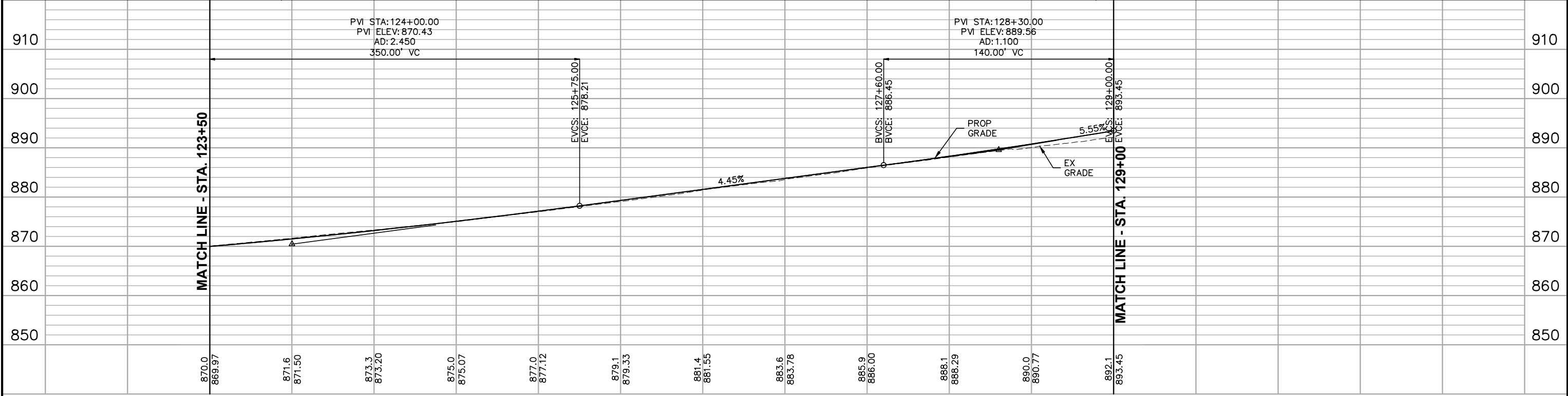
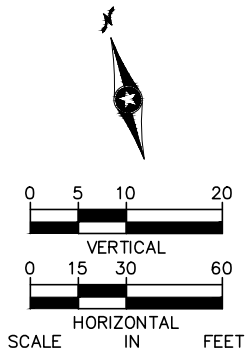
140

Sep. 22 2015 12:47 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmcclement



- CONSTRUCTION NOTES
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
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 - 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





CIVIL

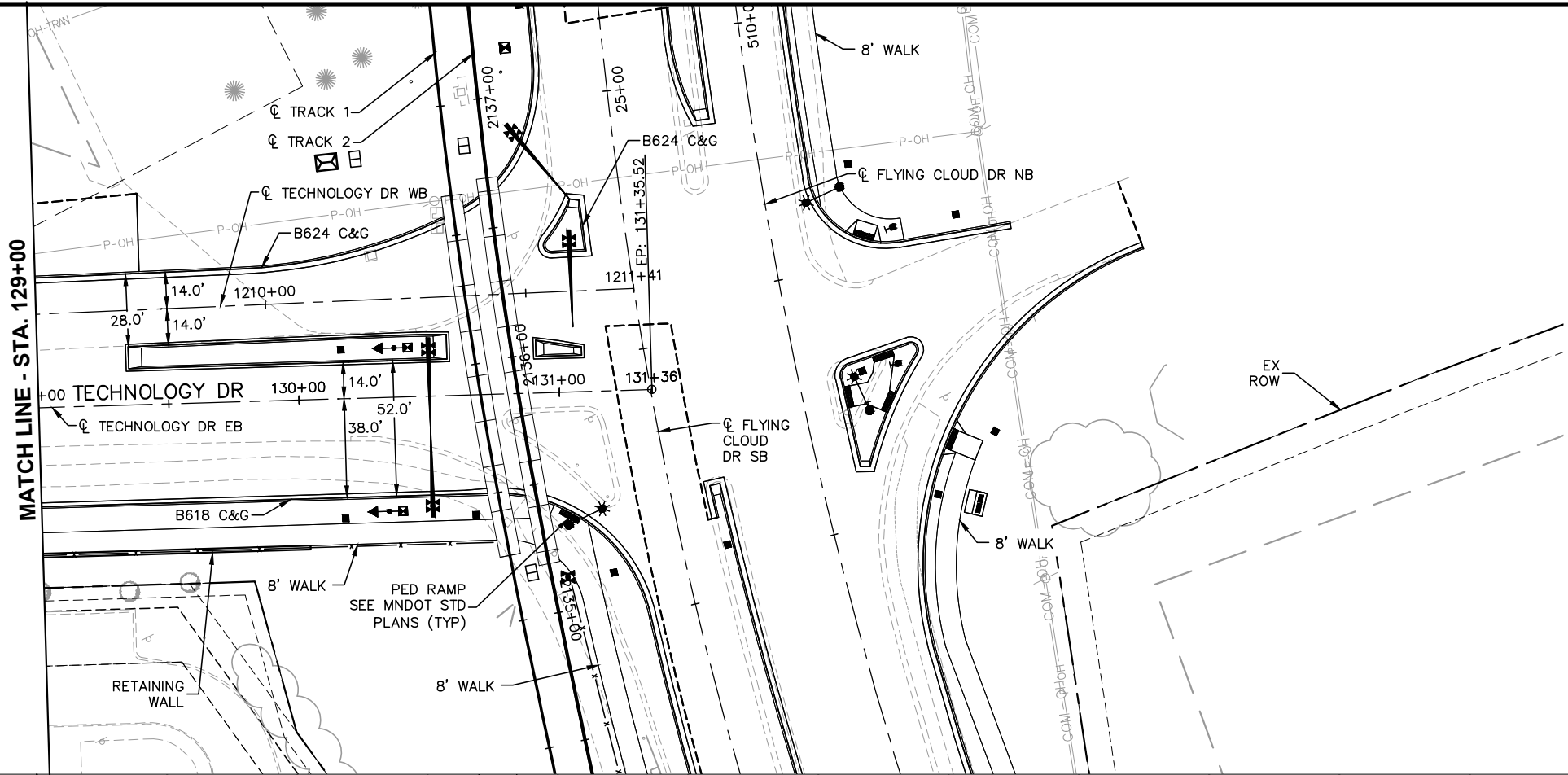
W1-CIV-PRF-025

CIVIL WEST - VOLUME 2
TECHNOLOGY DRIVE
PLAN AND PROFILE
STA. 123+50 TO STA. 129+00

60% SUBMISSION - 09/28/15

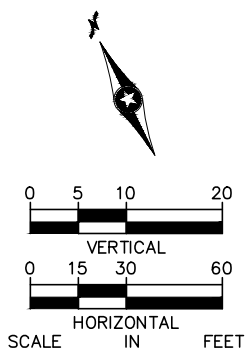
SHEET 77 OF 140

Sep. 22 2015 12:47 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmclement



- CONSTRUCTION NOTES
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
- 1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 - 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 - 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

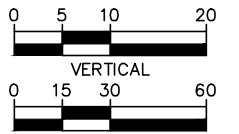
CIVIL WEST - VOLUME 2
TECHNOLOGY DRIVE
PLAN AND PROFILE
STA. 129+00 TO STA. 131+36

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-026

60% SUBMISSION - 09/28/15

SHEET 78 OF 140

- | NOTES | |
|-------|--|
| 1. | ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED |
| 2. | SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION |
| 3. | FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND" |

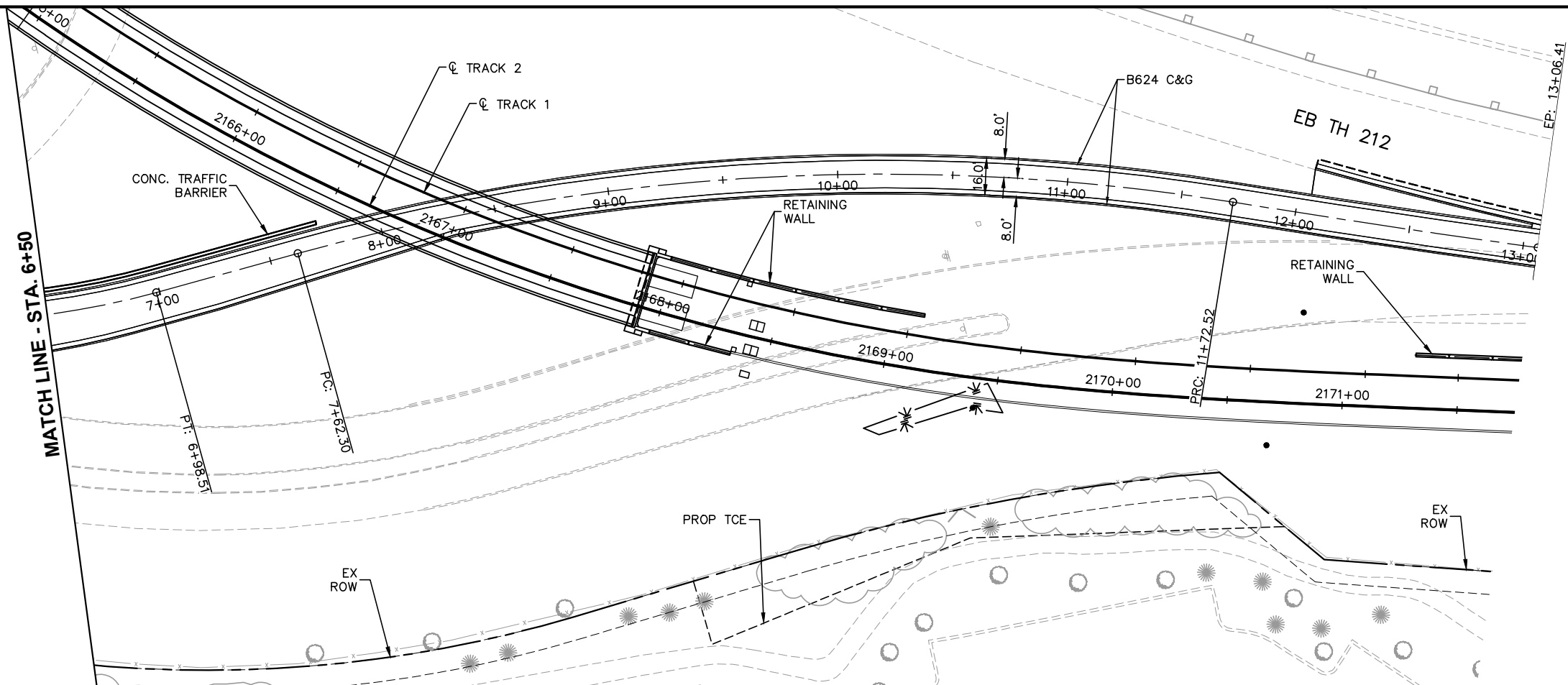


SCALE IN FEET



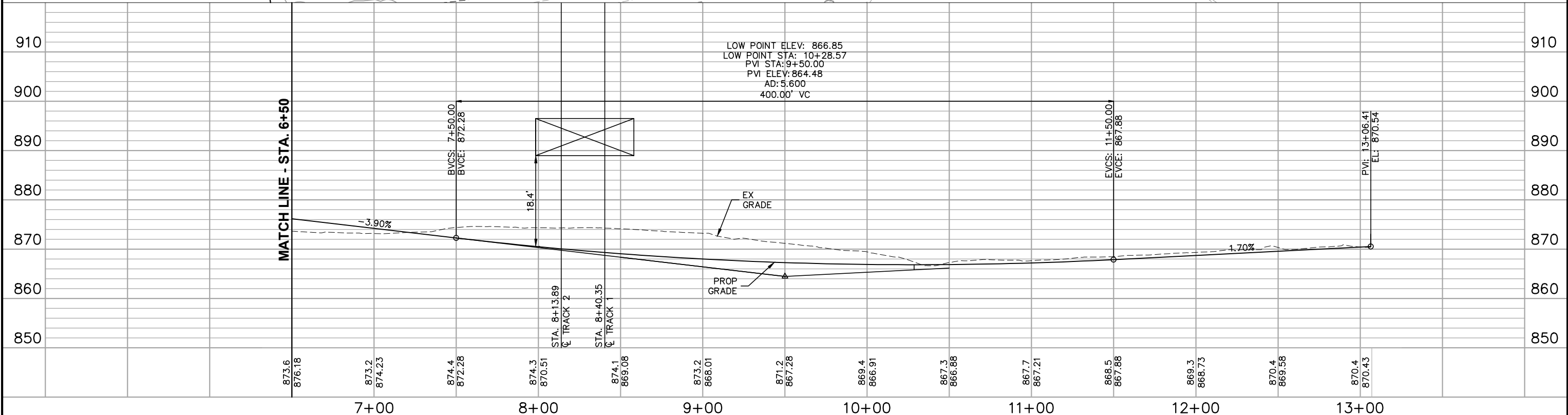
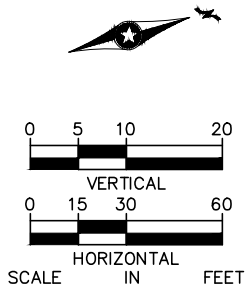
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	 				CIVIL WEST - VOLUME 2 494 EXIT RAMP PLAN AND PROFILE STA. 0+00 TO STA. 6+73		SHEET 79 OF 140
60% SUBMISSION - 09/28/15								DISCIPLINE: CIVIL		SHEET NAME: W1-CIV-PRF-027		

Sep. 22 2015 12:49 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmclement



- CONSTRUCTION NOTES
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

7+00	8+00	9+00	10+00	11+00	12+00	13+00
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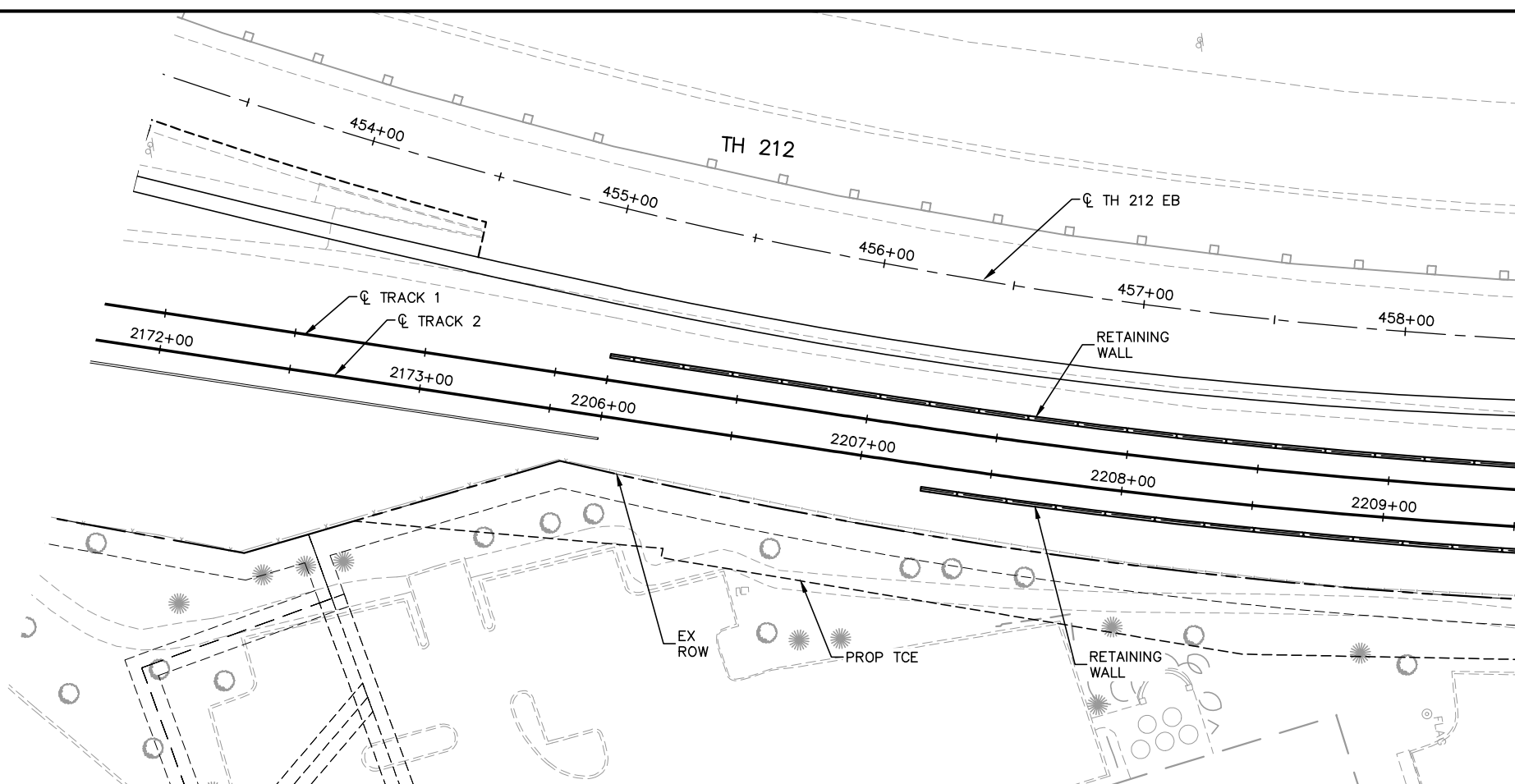
60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 2
212 ON RAMP
PLAN AND PROFILE
STA. 6+50 TO STA. 13+06

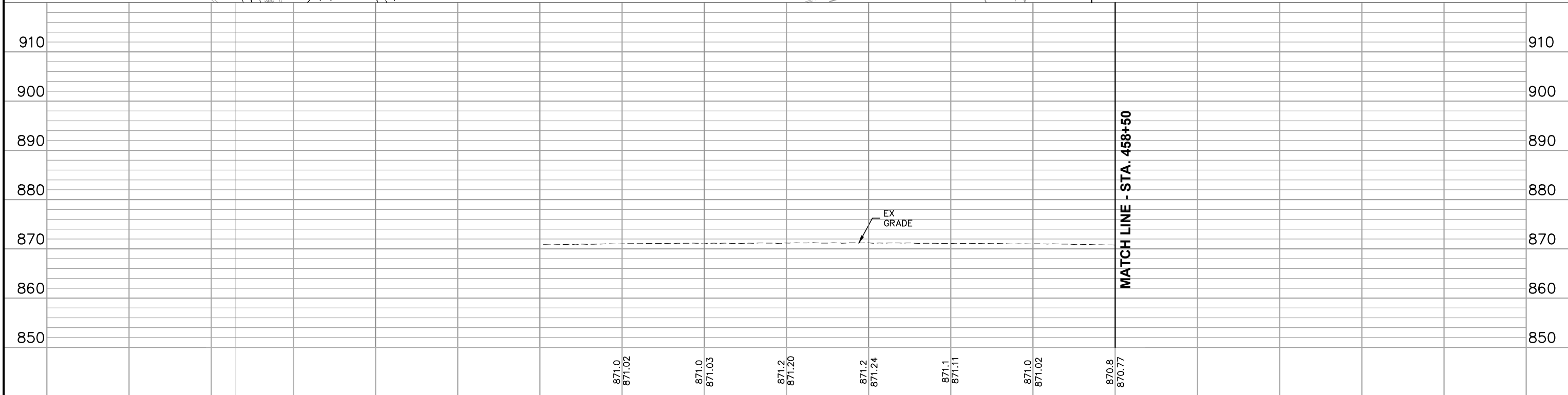
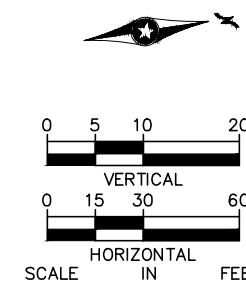
DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-030

SHEET
82
OF
140



- ## CONSTRUCTION NOTES
-
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

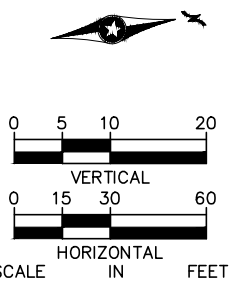
- ## NOTES
-
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



						454+00	455+00	456+00	457+00	458+00	CIVIL WEST - VOLUME 2 212 ON RAMP PLAN AND PROFILE STA. 453+15 TO STA. 458+50		SHEET	
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL		 	 			DISCIPLINE:	SHEET NAME:	83 OF 140	
												CIVIL		W2-CIV-PRF-001
							60% SUBMISSION - 09/28/15							

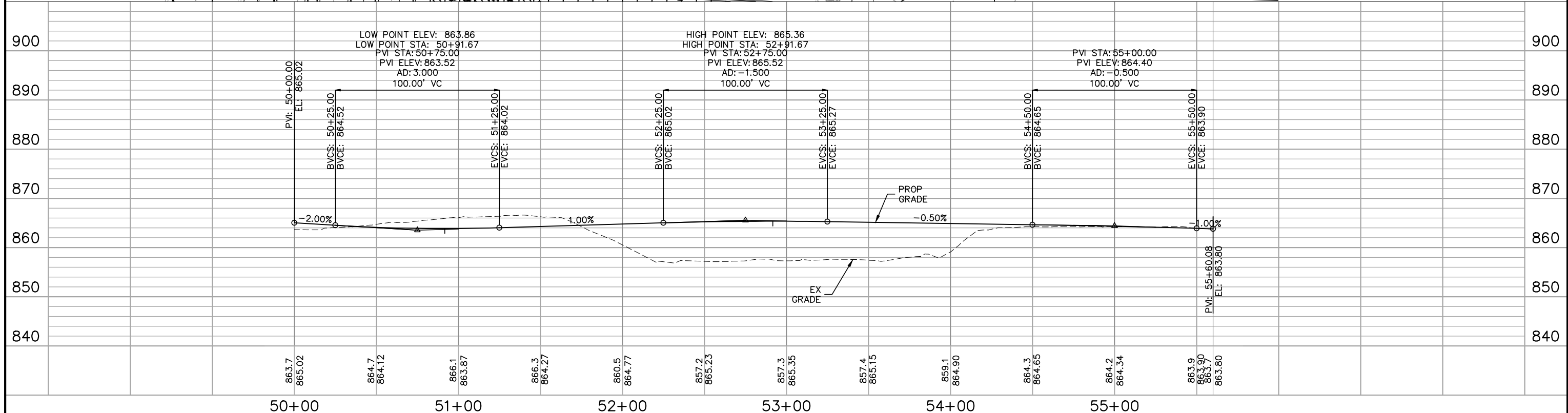
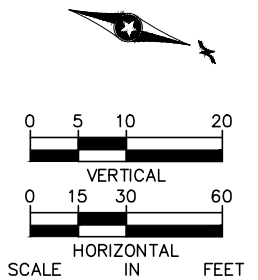
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

[illegible]

459+00						460+00						461+00						462+00						463+00						464+00						465+00						SHEET 84 OF 140	
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	AECOM   												CIVIL WEST - VOLUME 2 212 ON RAMP PLAN AND PROFILE STA. 458+50 TO STA. 465+50																									
						60% SUBMISSION - 09/28/15												DISCIPLINE: CIVIL												SHEET NAME: W2-CIV-PRF-002													

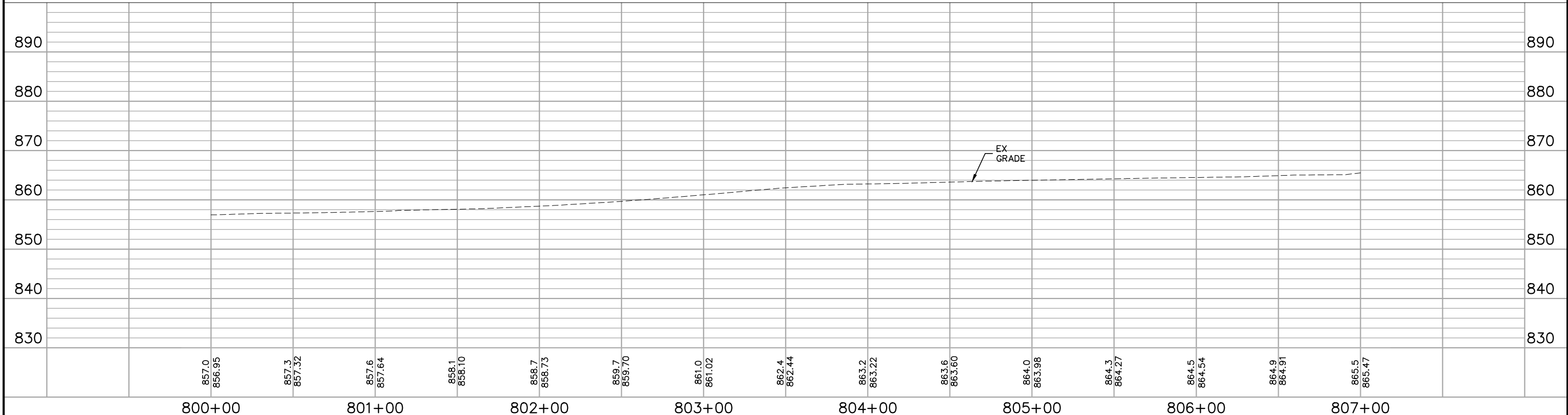
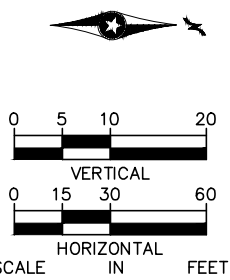
- | NOTES | |
|-------|--|
| 1. | ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED |
| 2. | SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION |
| 3. | FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND" |



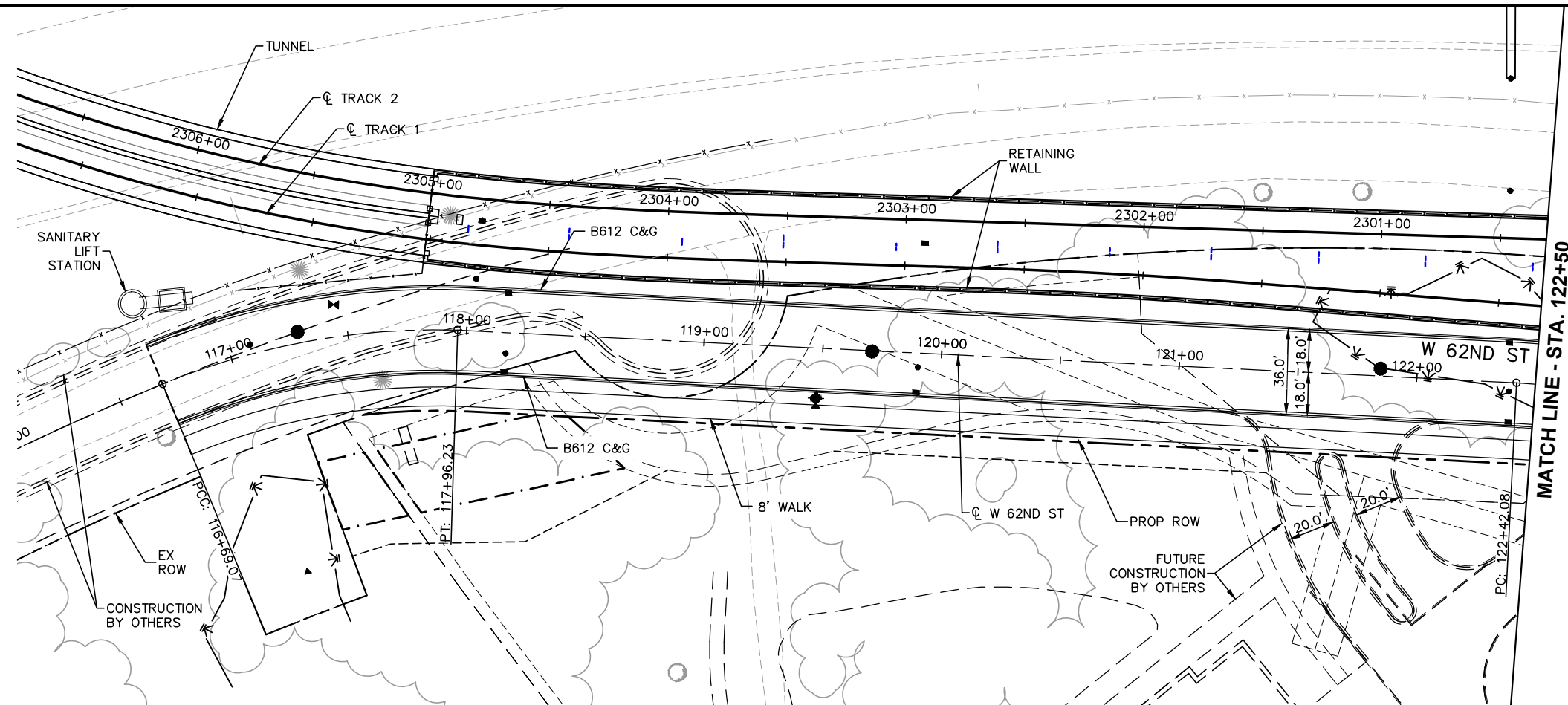
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	AECOM SRH Consulting Group, Inc. 60% SUBMISSION - 09/28/15		CIVIL WEST - VOLUME 2 ACCESS ROAD PLAN AND PROFILE STA. 50+00 TO STA. 55+60 DISCIPLINE: CIVIL SHEET NAME: W2-CIV-PRF-004		SHEET
									86	
									OF	
									140	

- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

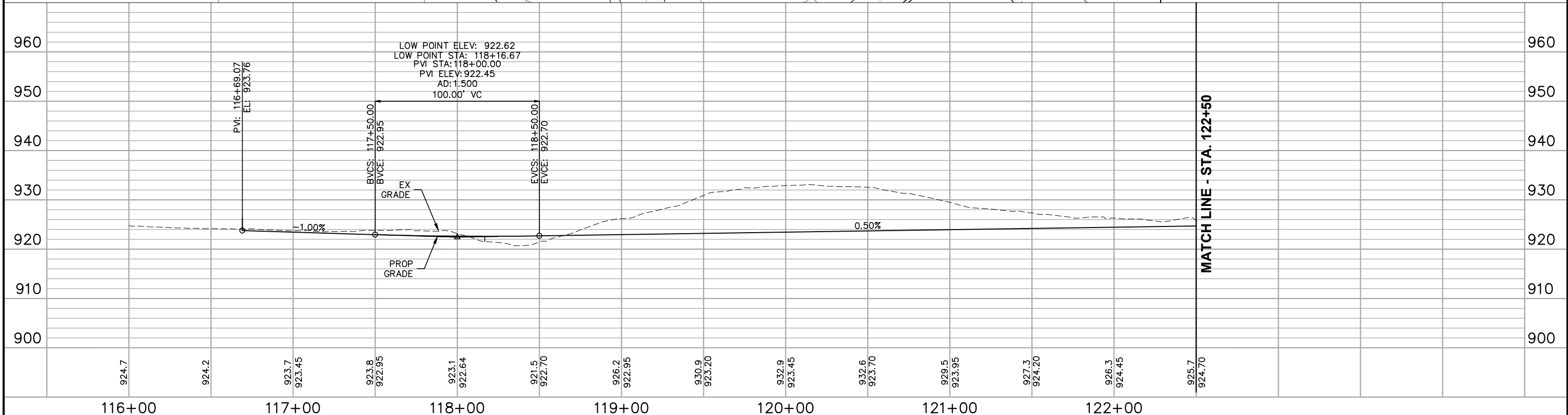
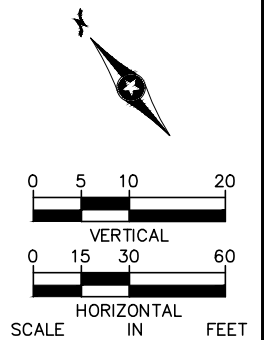


NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	  	CIVIL WEST - VOLUME 2 SHADY OAK ROAD PLAN AND PROFILE STA. 800+00 TO STA. 807+00		SHEET 87 OF 140
							DISCIPLINE:	SHEET NAME:	
							CIVIL	W2-CIV-PRF-005	
60% SUBMISSION - 09/28/15									



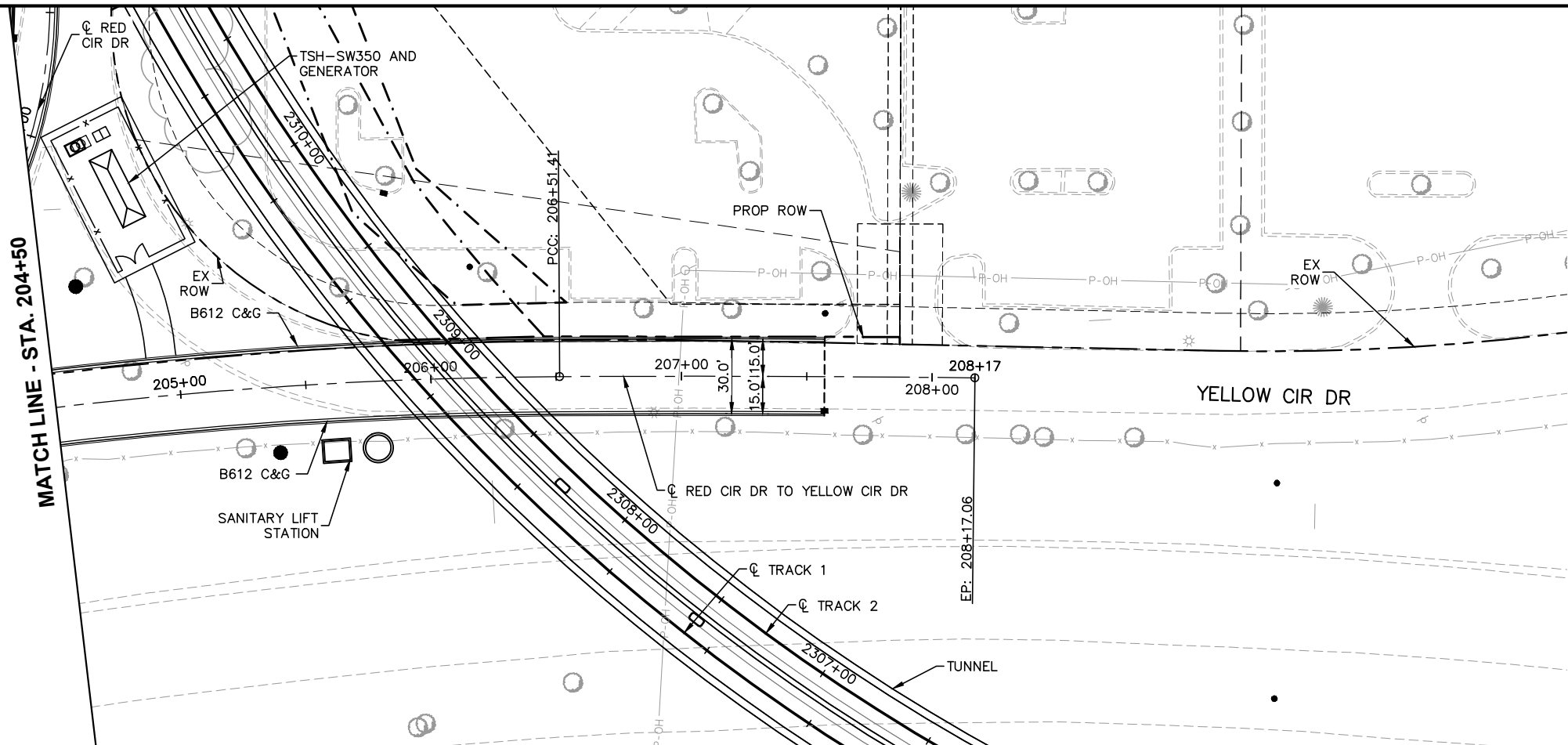
- CONSTRUCTION NOTES**
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- ## NOTES
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	   		CIVIL WEST - VOLUME 2 WEST 62ND STREET PLAN AND PROFILE STA. 116+00 TO STA. 122+50		SHEET 88 OF 140
						60% SUBMISSION - 09/28/15		DISCIPLINE: CIVIL SHEET NAME: W2-CIV-PRF-006		

Sep. 22 2015 12:52 pm V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: kncclement

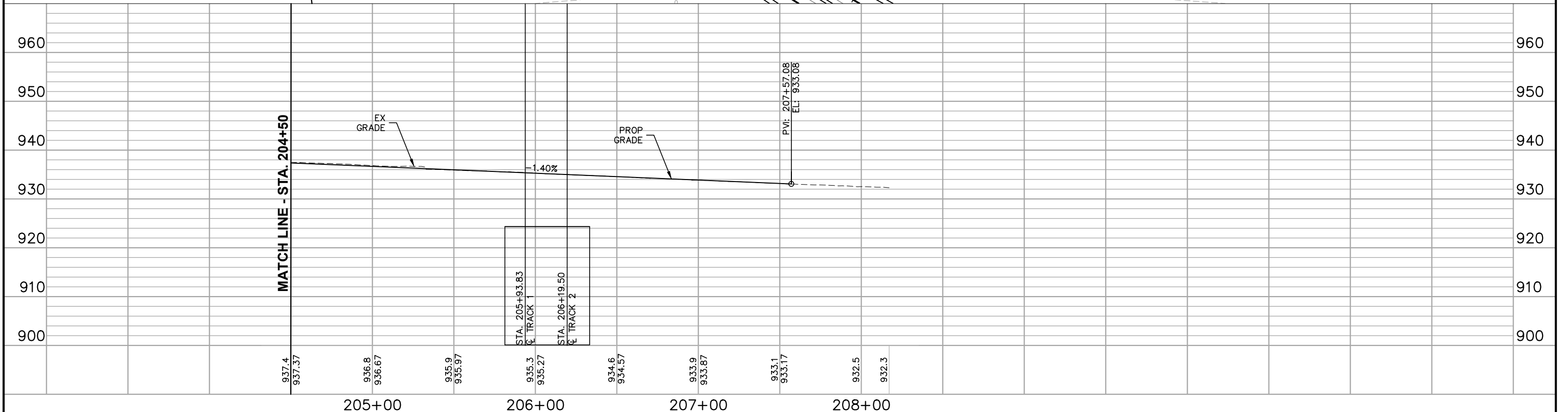
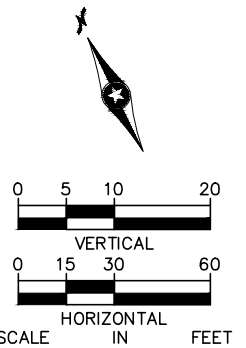


CONSTRUCTION NOTES

- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

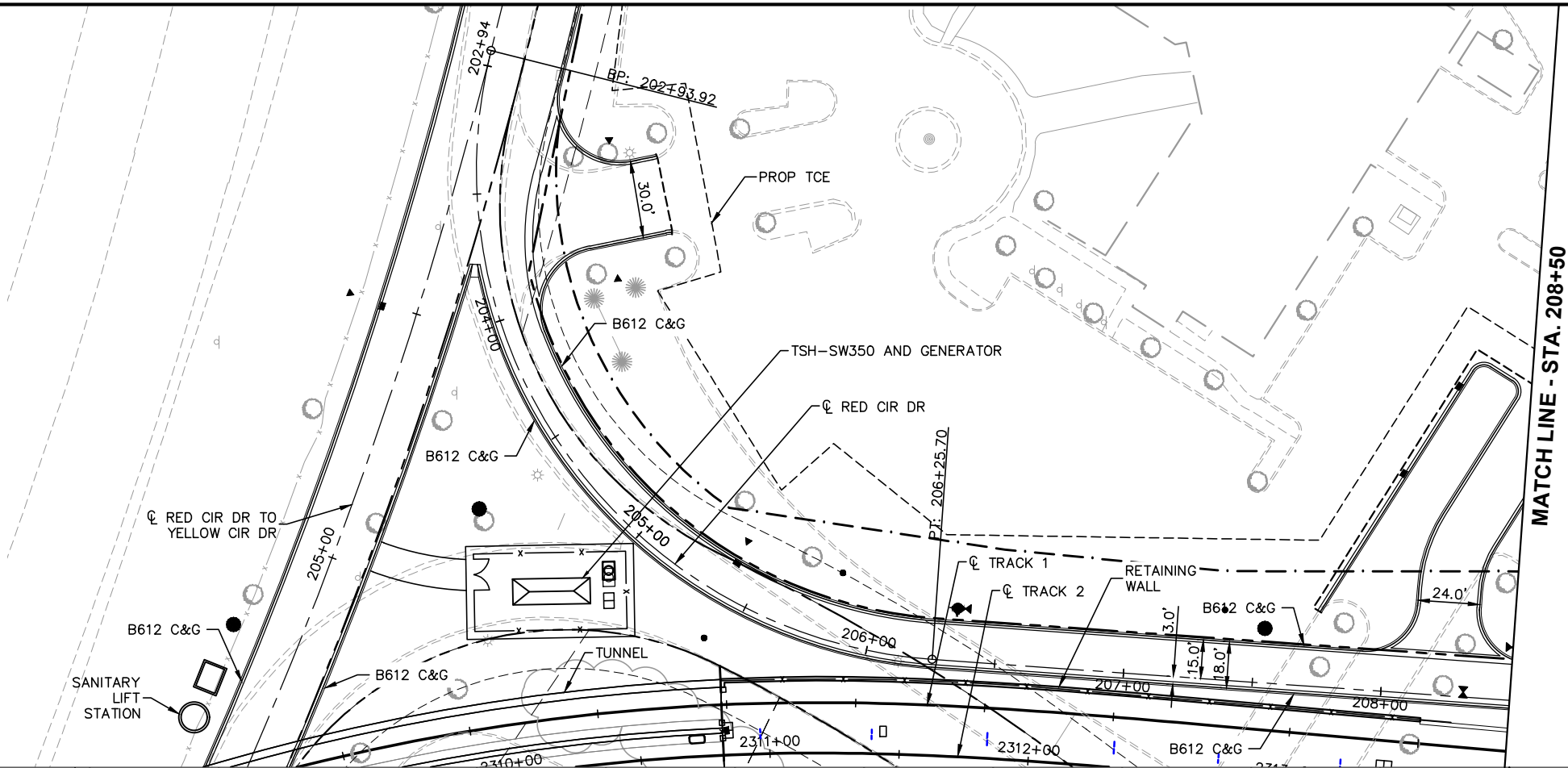


CIVIL WEST - VOLUME 2
RED CIRCLE DRIVE TO YELLOW CIRCLE DRIVE
PLAN AND PROFILE
STA. 204+50 TO STA. 208+17

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-PRF-009

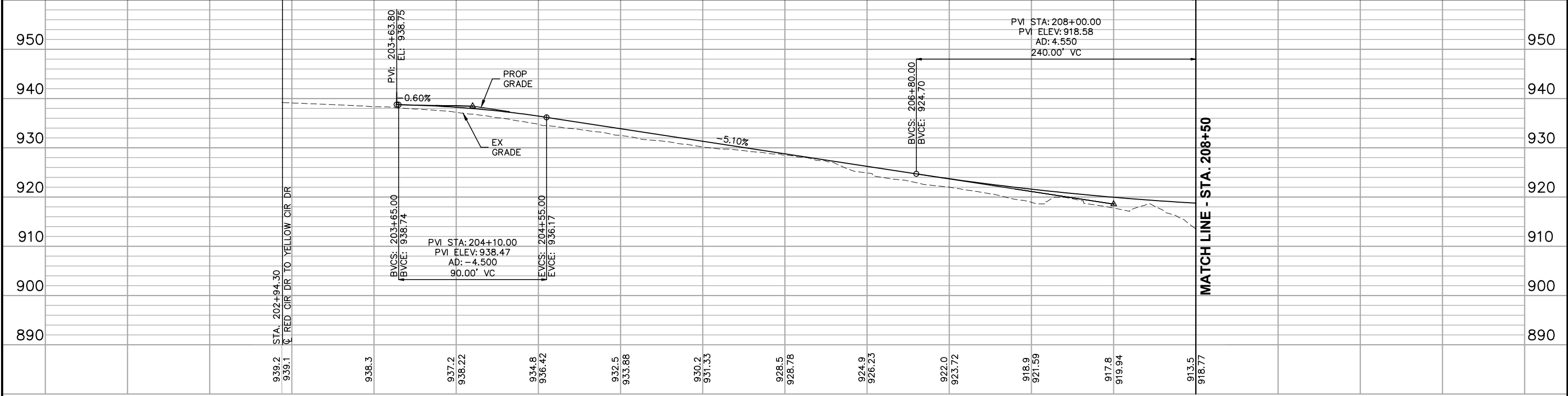
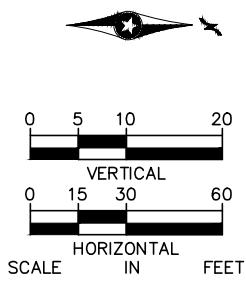
SHEET
91
OF
140

Sep. 22 2015 12:52 pm V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: kncclement



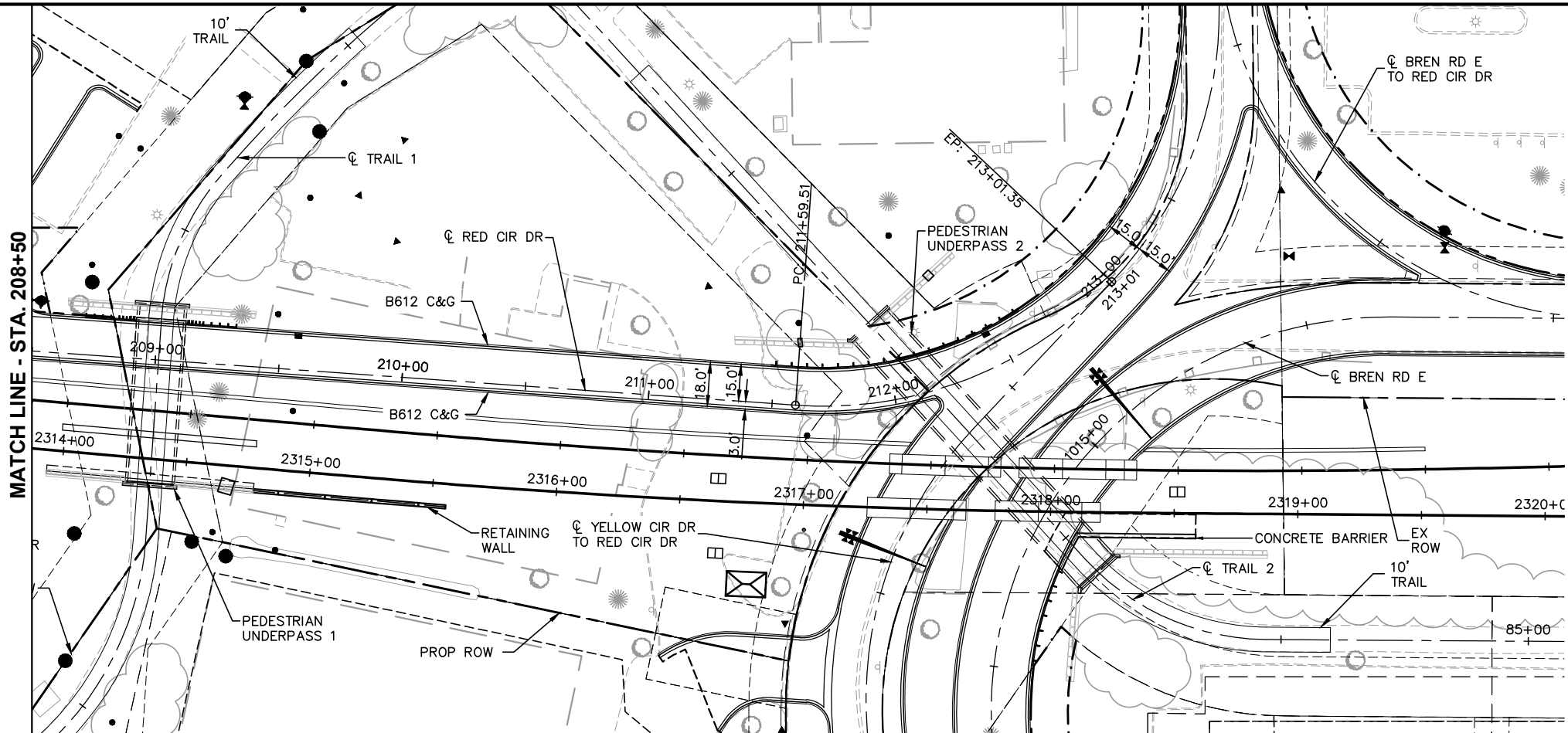
- CONSTRUCTION NOTES
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



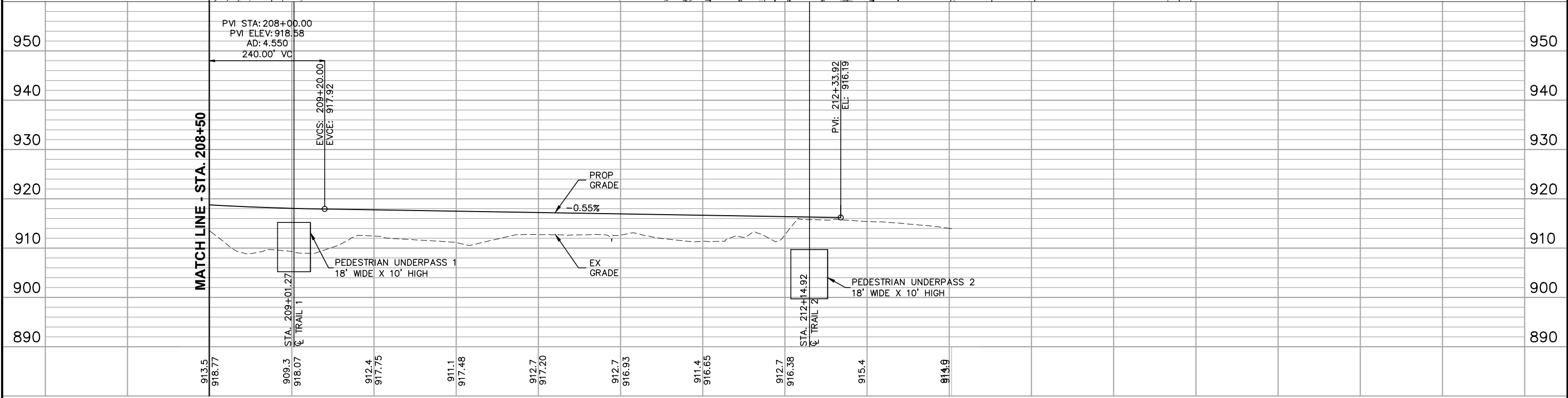
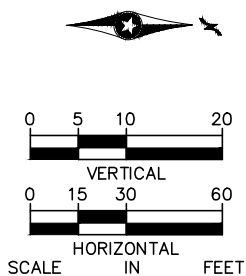
203+00						204+00						205+00						206+00						207+00						208+00							
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL							AECOM SRI Consulting Group, Inc.						 SOUTHWEST Green Line LRT Extension 						CIVIL WEST - VOLUME 2 RED CIRCLE DRIVE PLAN AND PROFILE STA. 202+94 TO STA. 208+50						SHEET		92		OF		140	
						60% SUBMISSION - 09/28/15												DISCIPLINE: CIVIL						SHEET NAME: W2-CIV-PRF-010													

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- CONSTRUCTION NOTES
- 1 DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - 2 DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





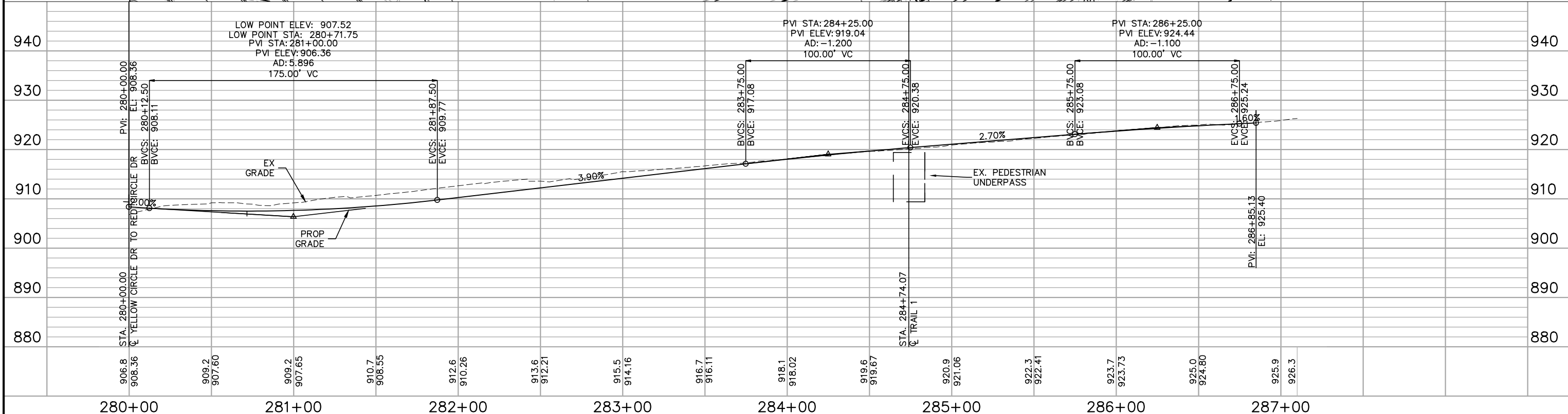
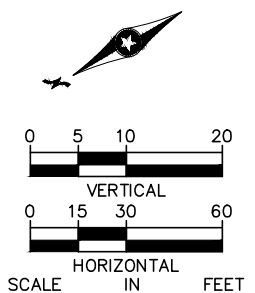
CIVIL WEST - VOLUME 2
RED CIRCLE DRIVE
PLAN AND PROFILE
STA. 208+50 TO STA. 213+01

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-PRF-011

60% SUBMISSION - 09/28/15

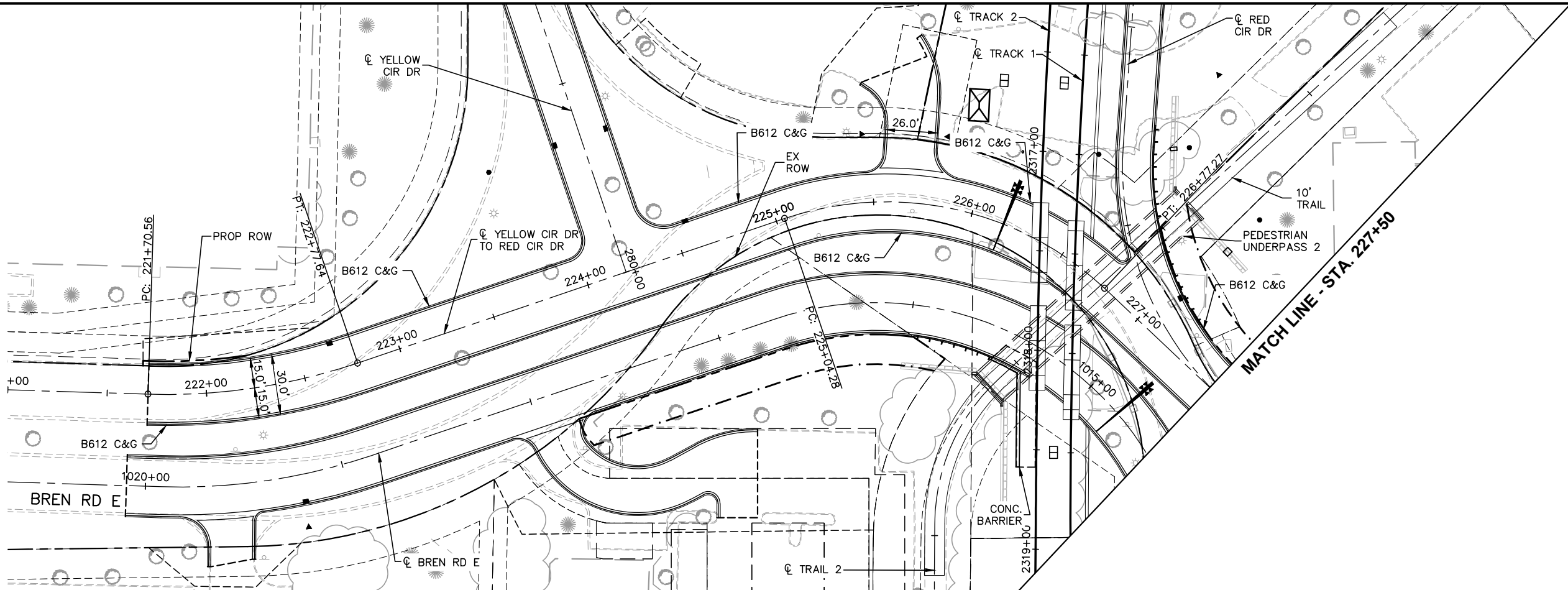
SHEET 93 OF 140

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	   		CIVIL WEST - VOLUME 2 YELLOW CIRCLE DRIVE PLAN AND PROFILE STA. 280+00 TO STA. 287+10		SHEET 94 OF 140
						60% SUBMISSION - 09/28/15		DISCIPLINE: CIVIL SHEET NAME: W2-CIV-PRF-012		

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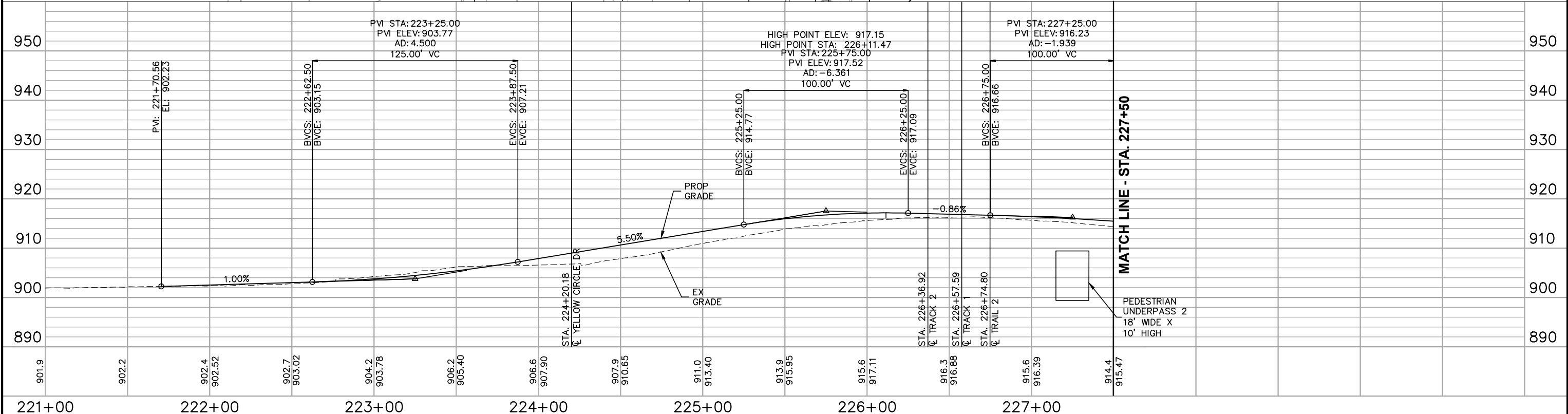
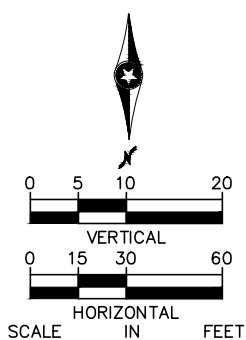


CONSTRUCTION NOTES

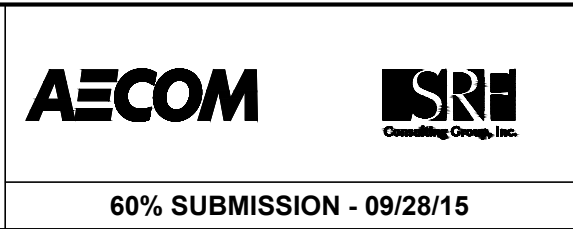
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

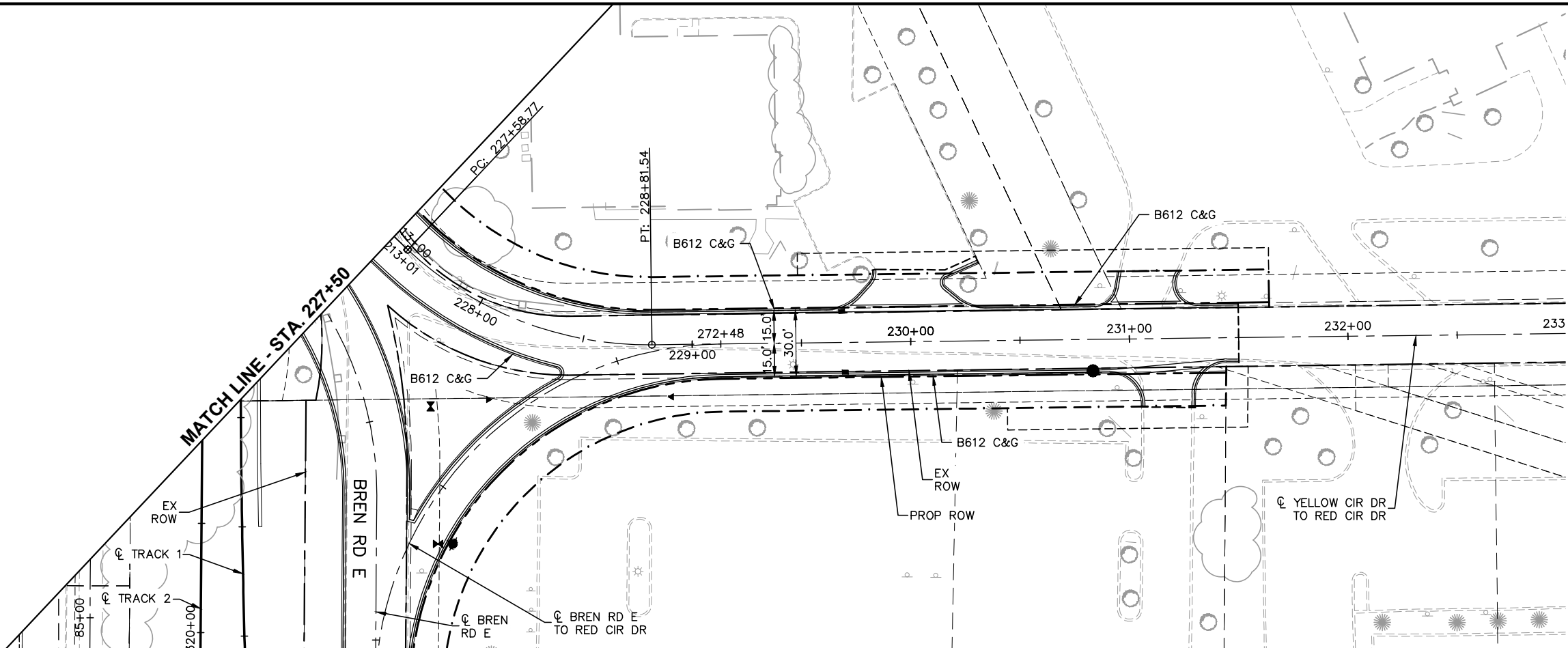


CIVIL WEST - VOLUME 2
YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE
PLAN AND PROFILE
STA. 221+00 TO STA. 227+50

DISCIPLINE:
CIVIL

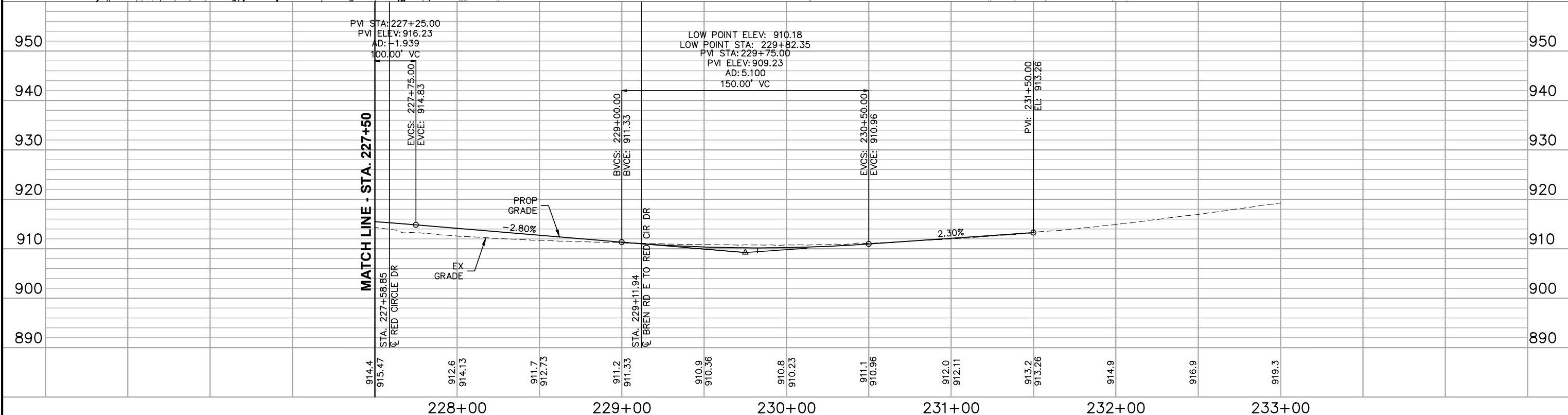
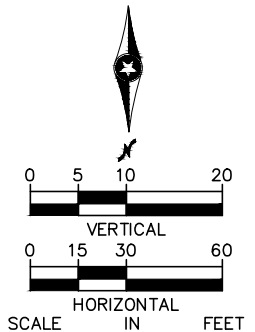
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W2-CIV-PRF-013

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- CONSTRUCTION NOTES
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

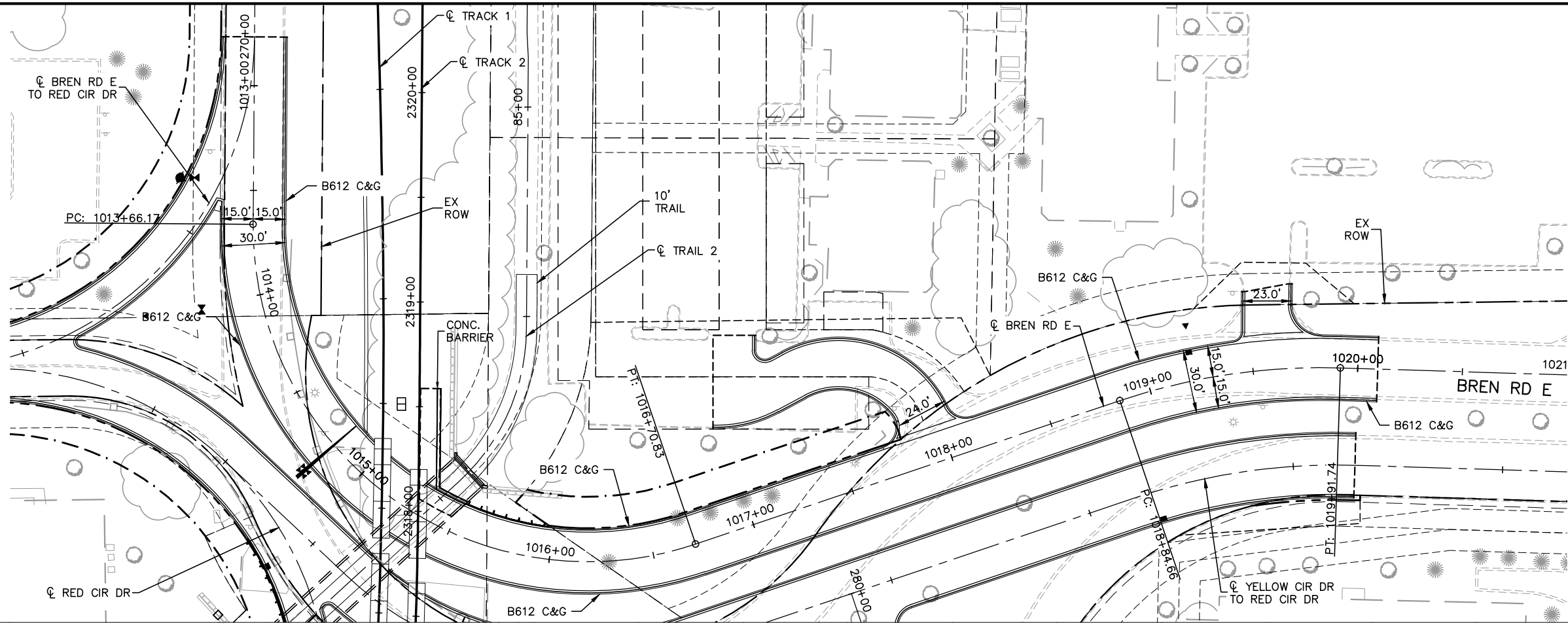
- NOTES
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

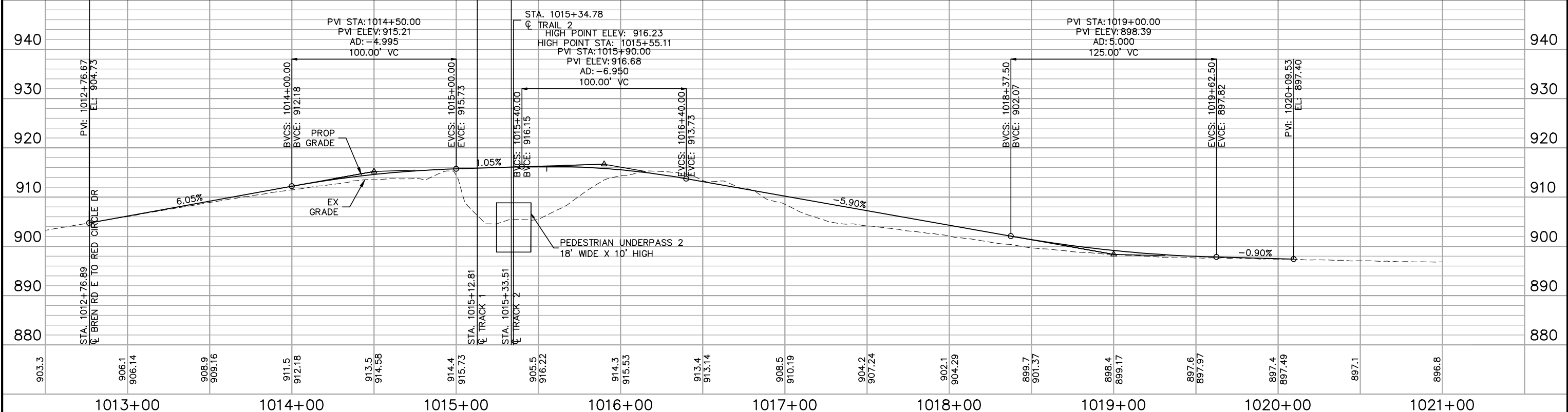
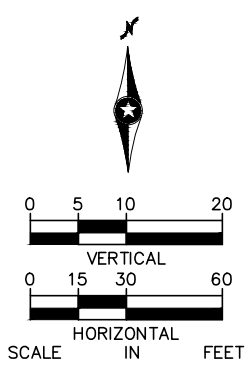
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		YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE			
60% SUBMISSION - 09/28/15		STA. 227+50 TO STA. 233+00		DISCIPLINE: CIVIL	SHEET NAME: W2-CIV-PRF-014

Sep. 22 2015 12:54 pm V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: knclement



- CONSTRUCTION NOTES
- 1 DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - 2 DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

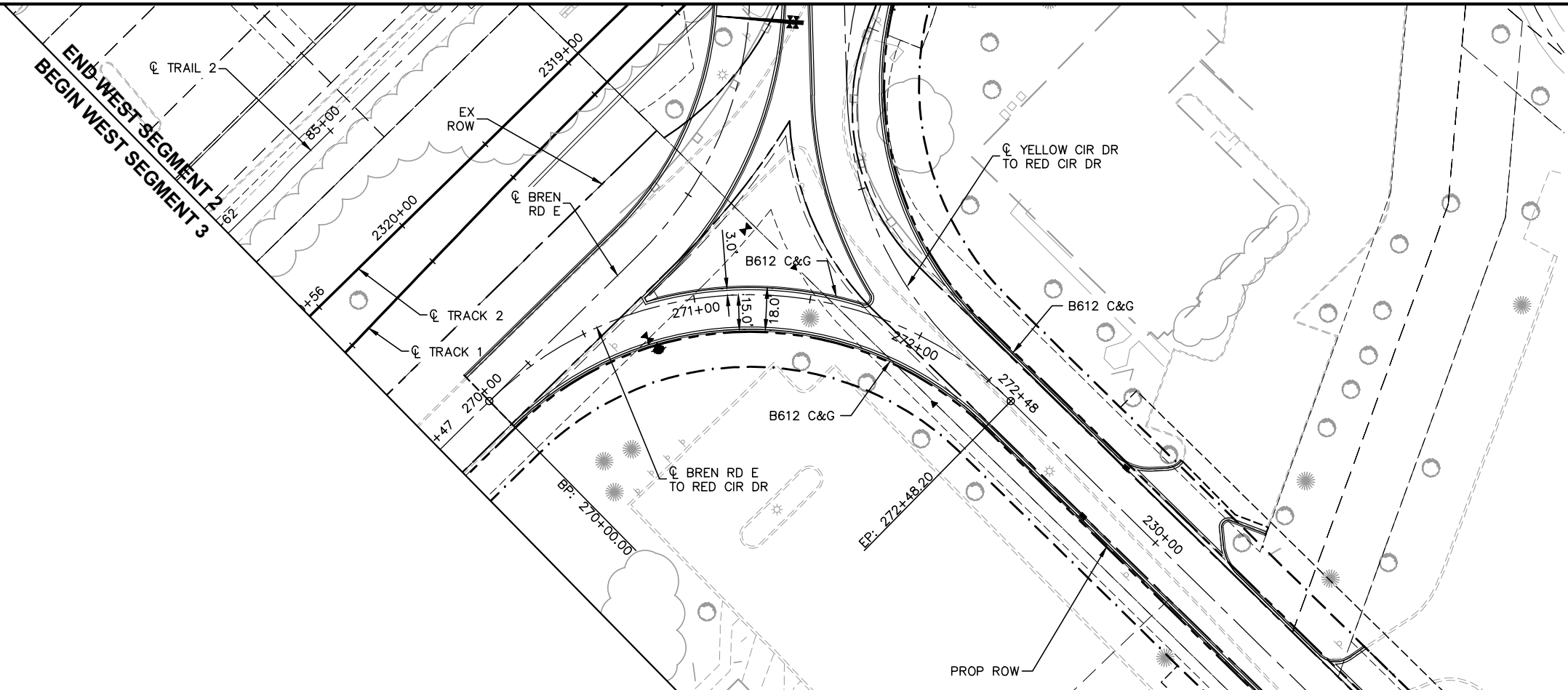
CIVIL WEST - VOLUME 2
BREN ROAD EAST
PLAN AND PROFILE
STA. 1012+50 TO STA. 1021+00

DISCIPLINE: **CIVIL**
SHEET NAME: **W2-CIV-PRF-015**

60% SUBMISSION - 09/28/15

SHEET 97 OF 140

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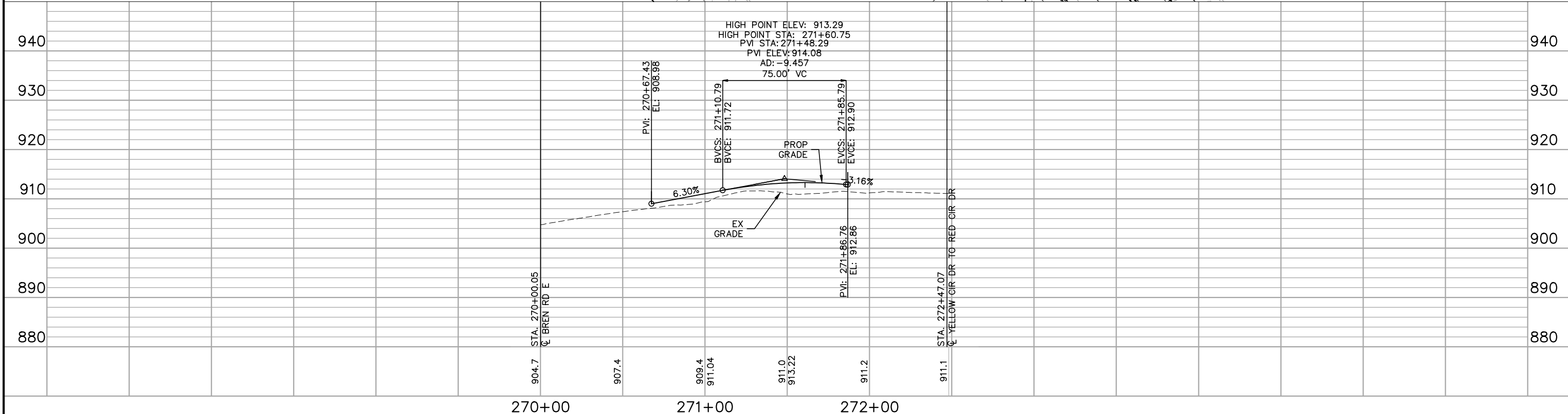
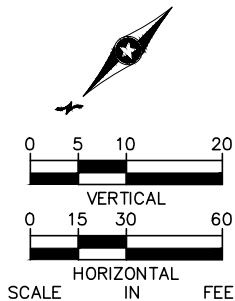


CONSTRUCTION NOTES

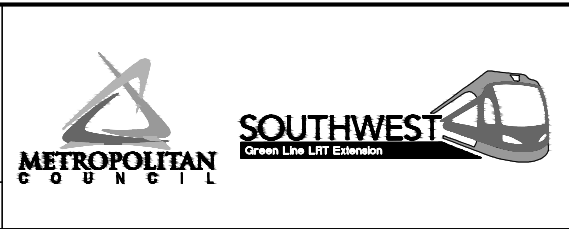
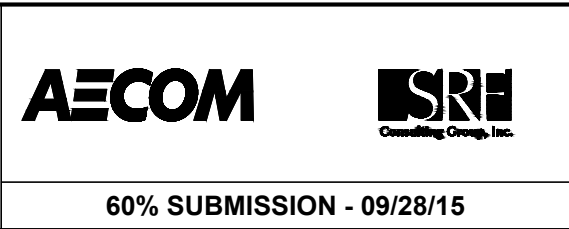
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

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3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



CIVIL WEST - VOLUME 2
BREN ROAD EAST TO RED CIRCLE DRIVE
PLAN AND PROFILE
STA. 270+00 TO STA. 272+48

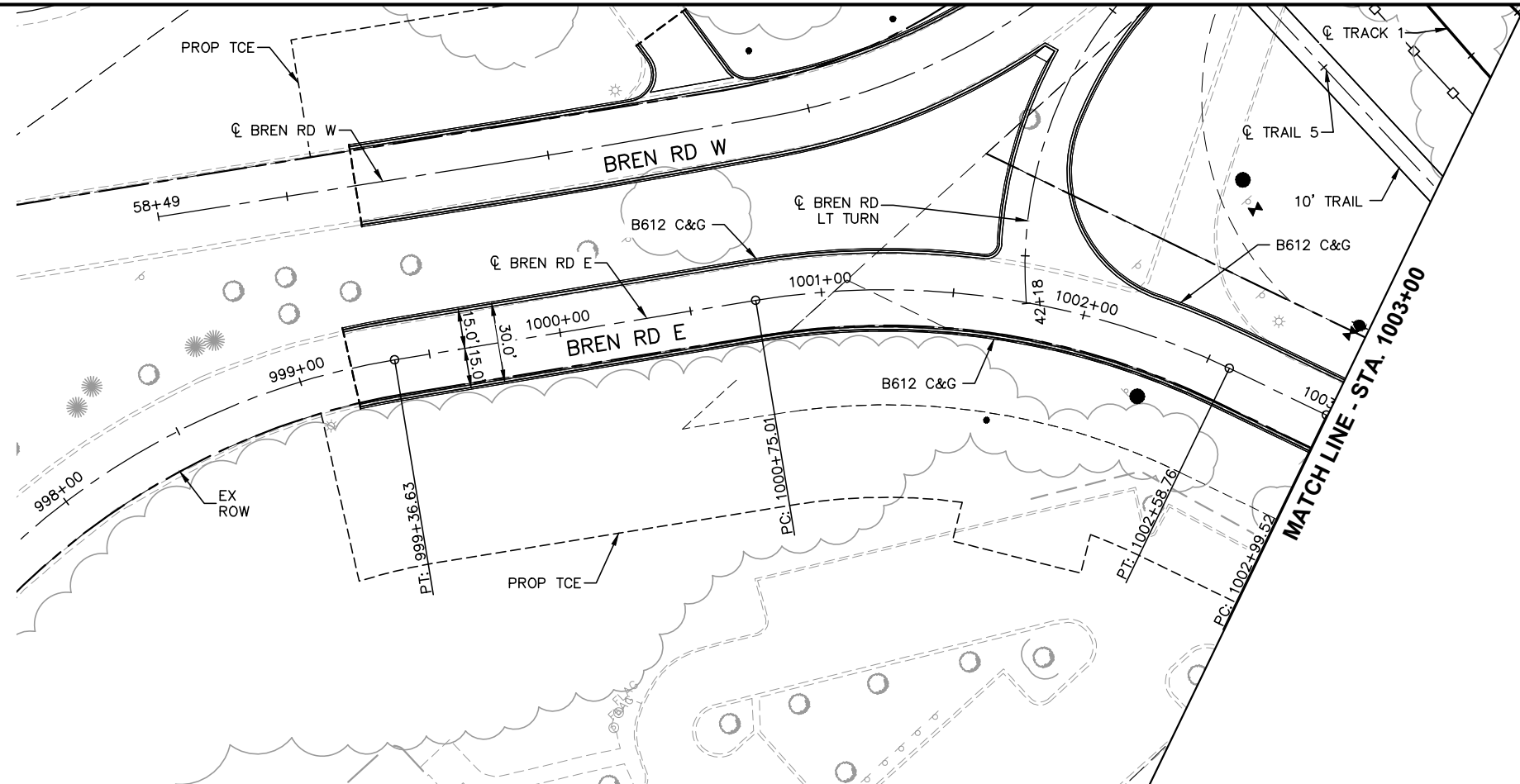
DISCIPLINE:
CIVIL

SHEET NAME:
W2-CIV-PRF-016

SHEET
98
OF
140

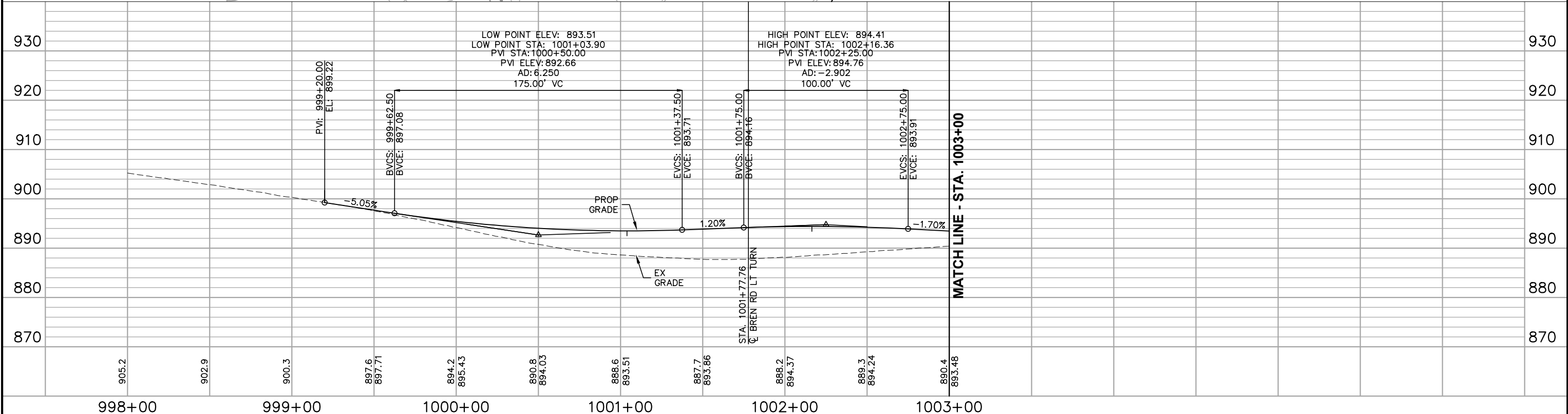
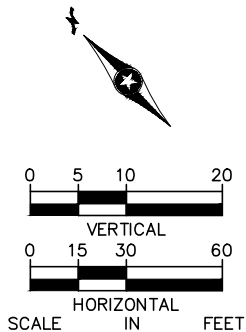
60% SUBMISSION - 09/28/15

Sep. 22 2015 12:55 pm v:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: kncclement



- CONSTRUCTION NOTES
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15

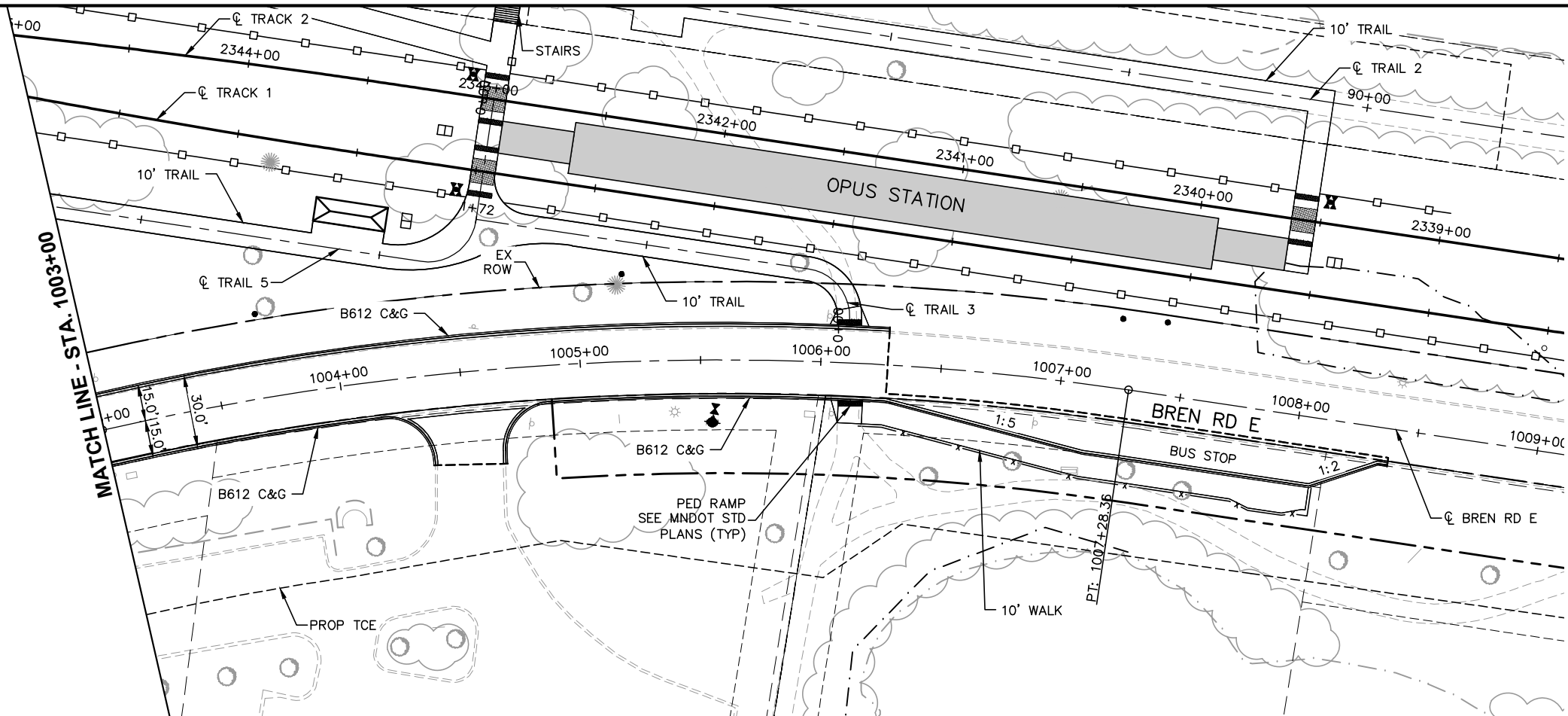


CIVIL WEST - VOLUME 2
BREN ROAD EAST
PLAN AND PROFILE
STA. 998+00 TO STA. 1003+00

DISCIPLINE: CIVIL
SHEET NAME: W3-CIV-PRF-001

SHEET 99 OF 140

Sep. 22 2015 12:55 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: kncclement

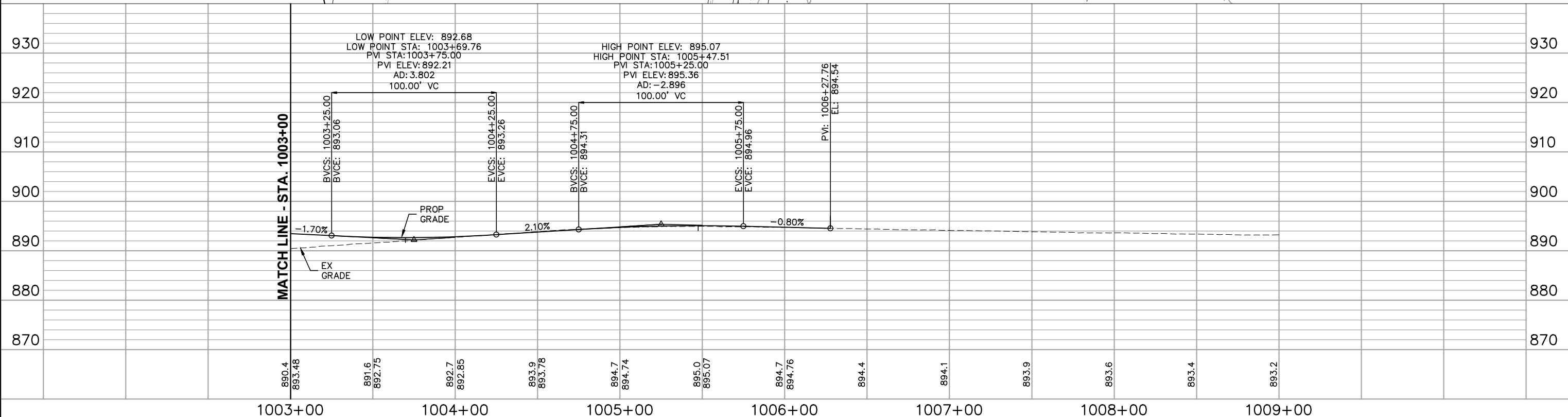
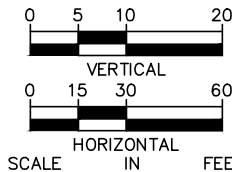


CONSTRUCTION NOTES

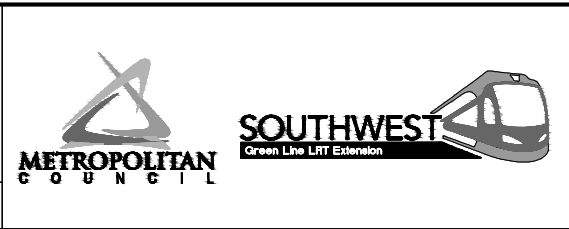
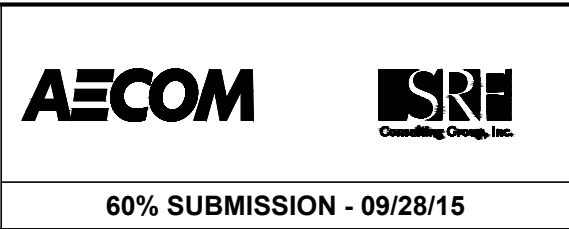
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

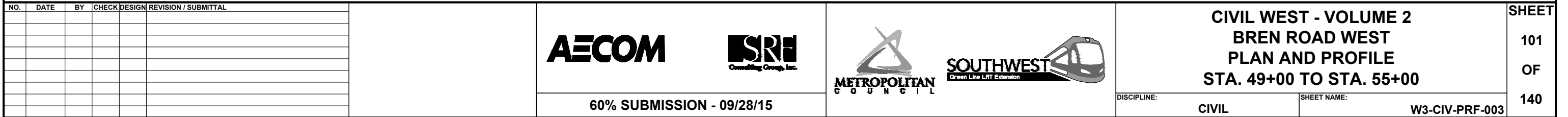
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



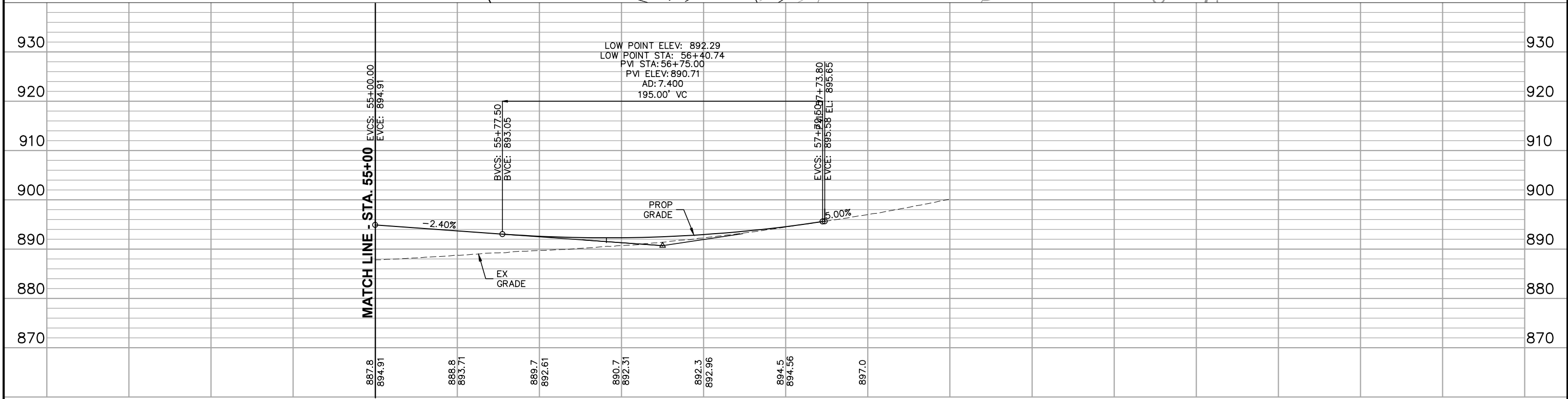
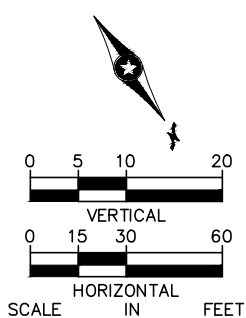
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



CIVIL WEST - VOLUME 2 BREN ROAD EAST PLAN AND PROFILE STA. 1003+00 TO STA. 1009+00		SHEET 100 OF 140
DISCIPLINE: CIVIL	SHEET NAME: W3-CIV-PRF-002	

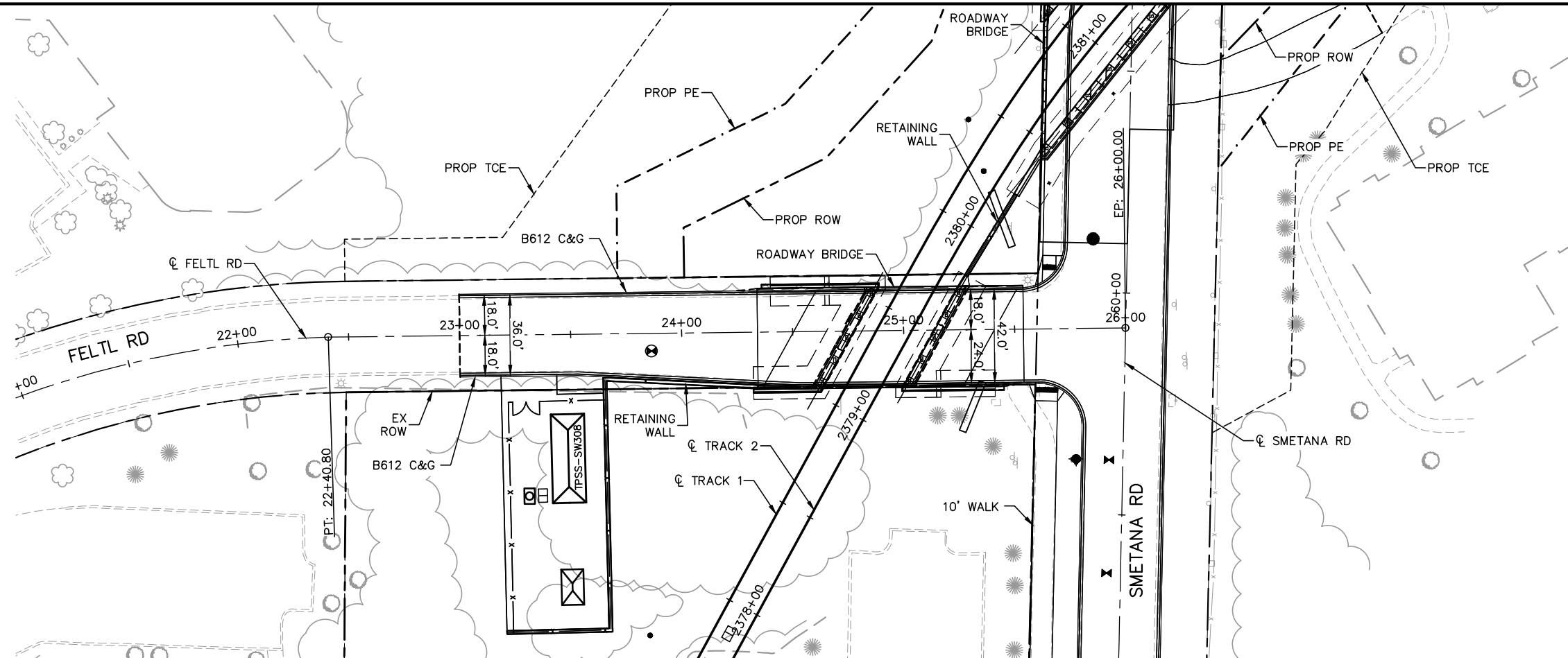


- | NOTES | |
|-------|--|
| 1. | ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED |
| 2. | SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION |
| 3. | FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND" |



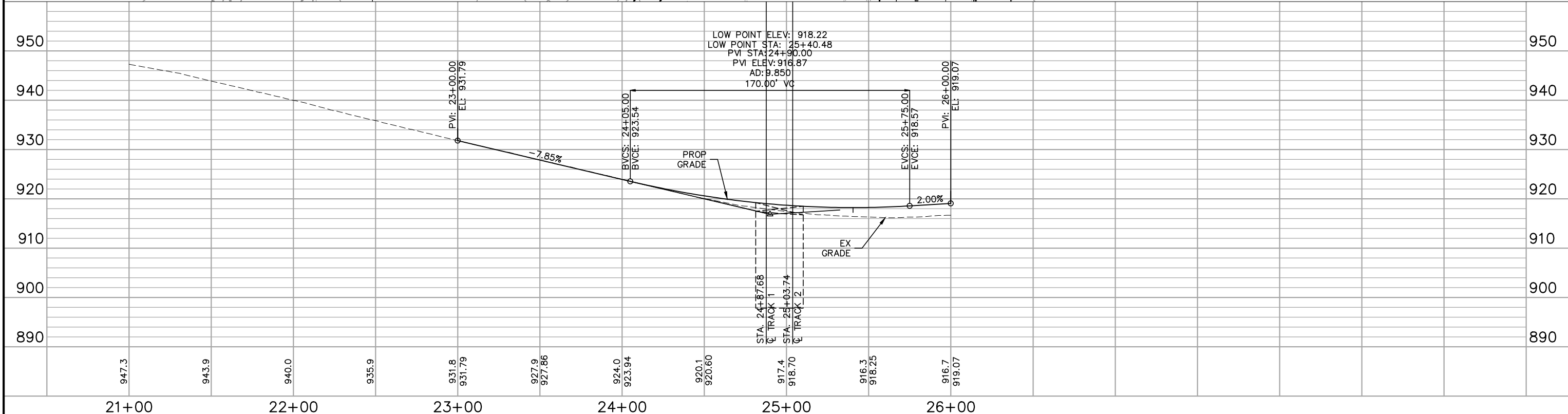
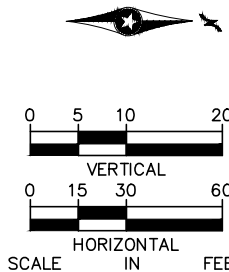
						55+00	56+00	57+00	58+00	CIVIL WEST - VOLUME 2 BREN ROAD WEST PLAN AND PROFILE STA. 55+00 TO STA. 58+49		SHEET
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	 			 	DISCIPLINE:	SHEET NAME:	102
						60% SUBMISSION - 09/28/15				CIVIL	W3-CIV-PRF-004	OF
												140

Sep. 22 2015 12:57 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: kncclement



- CONSTRUCTION NOTES
- 1 DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - 2 DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL







60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 2
FELTL ROAD
PLAN AND PROFILE
STA. 21+00 TO STA. 26+00

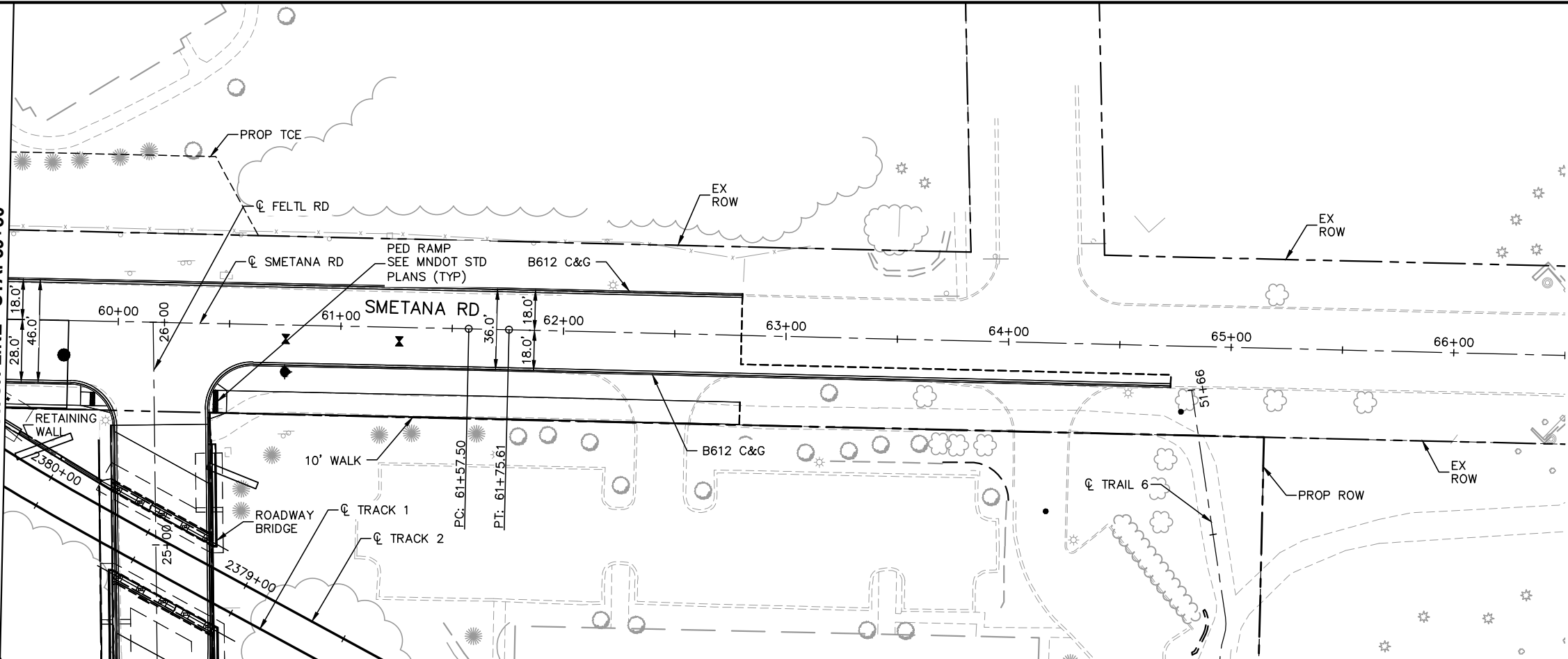
DISCIPLINE: CIVIL
SHEET NAME: W3-CIV-PRF-005

SHEET
103
OF
140

Sep. 22 2015 12:58 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: kncclement

MATCH LINE - STA. 59+50

MATCH LINE - STA. 59+50

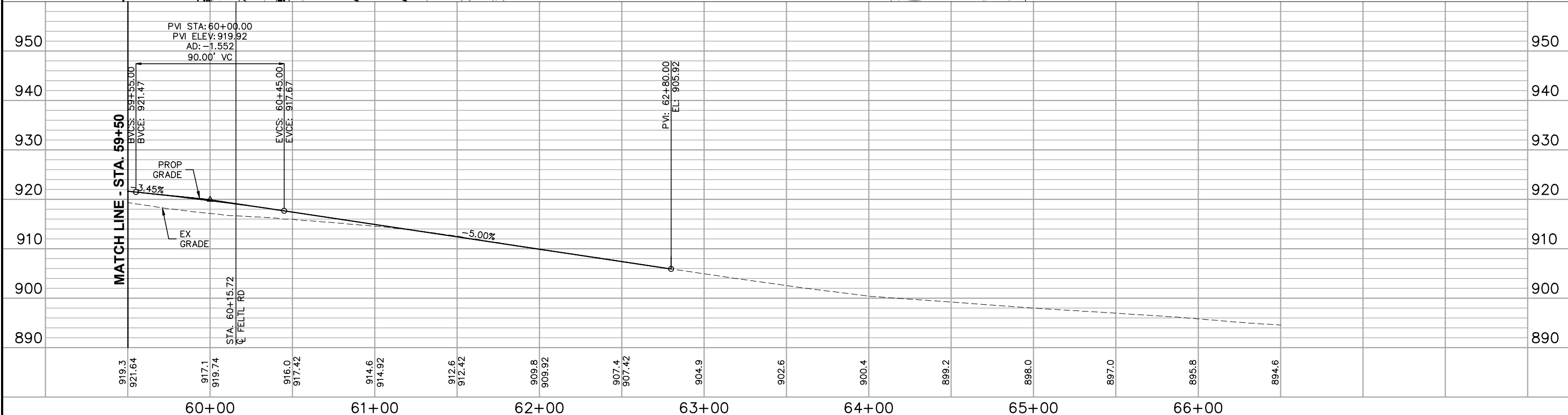
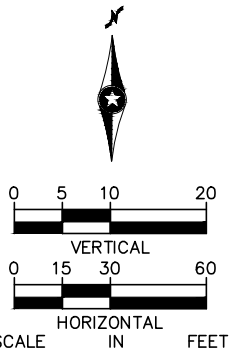


CONSTRUCTION NOTES

- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

SRI
Consulting Group, Inc.

METROPOLITAN
COUNCIL

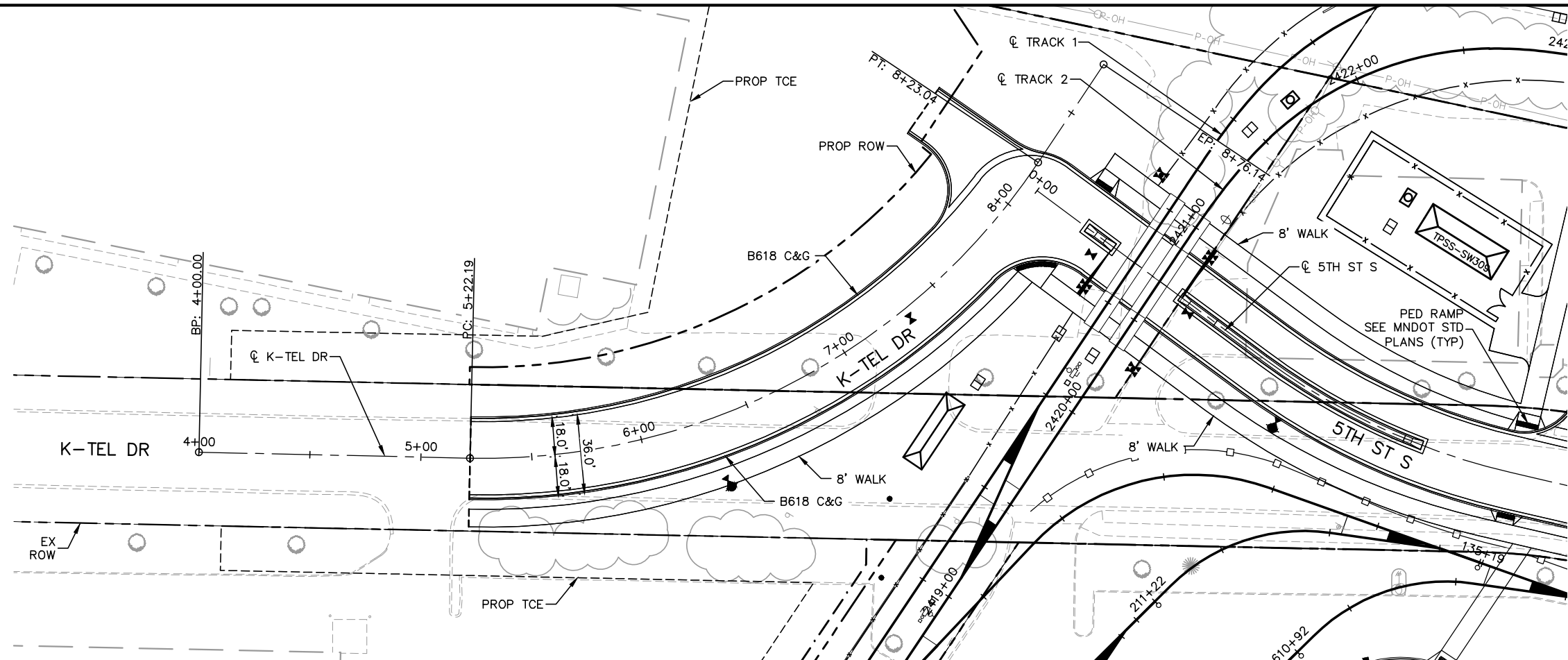
SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 2
SMETANA ROAD
PLAN AND PROFILE
STA. 59+50 TO STA. 66+50

DISCIPLINE: CIVIL
SHEET NAME: W3-CIV-PRF-007

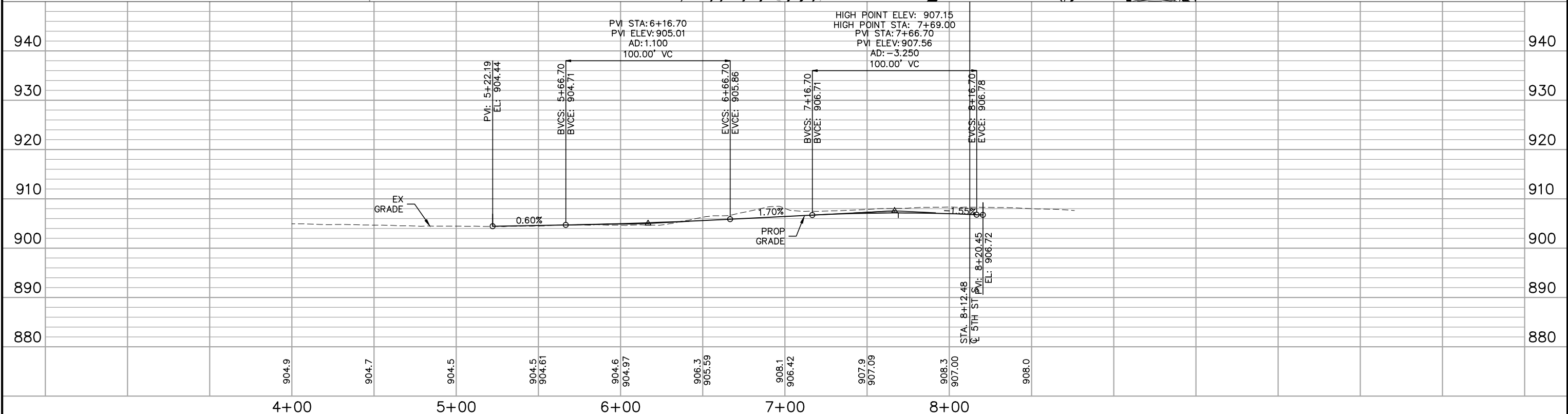
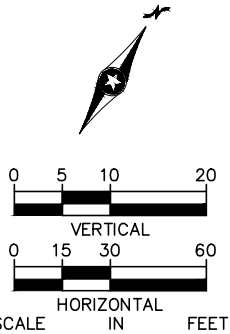
SHEET
105
OF
140

Sep. 22 2015 12:59 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: kncclement

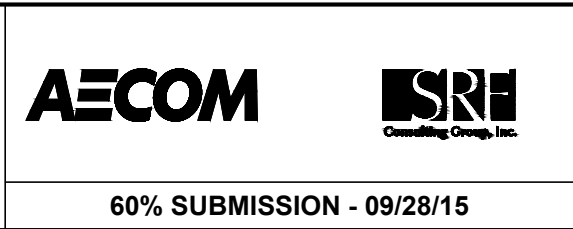


- CONSTRUCTION NOTES
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

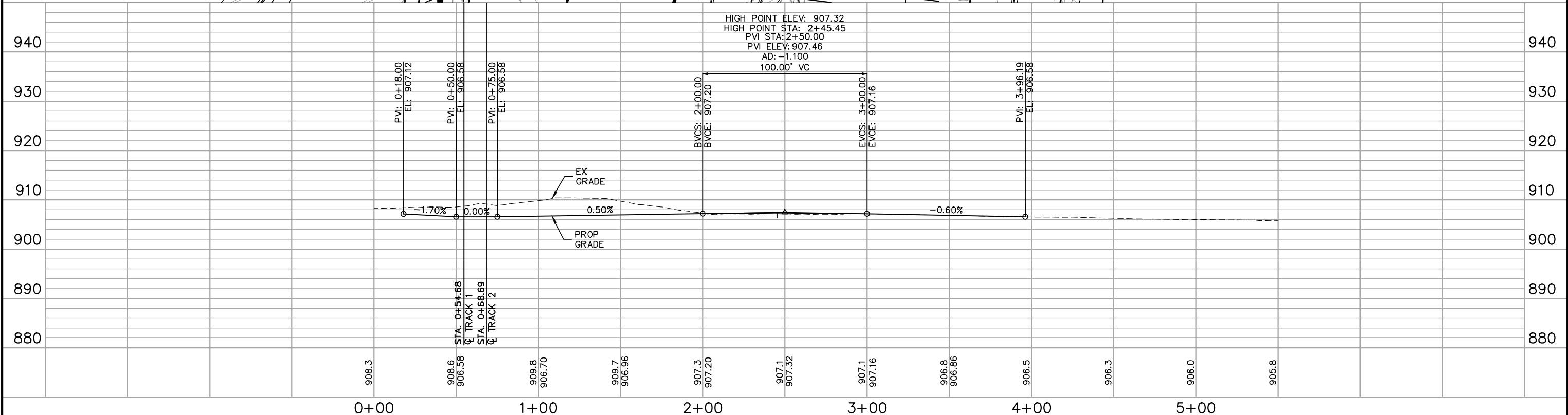
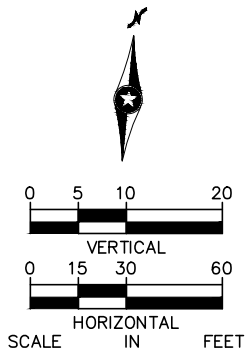


CIVIL WEST - VOLUME 2
K-TEL DRIVE
PLAN AND PROFILE
STA. 4+00 TO STA. 8+76

DISCIPLINE: CIVIL
SHEET NAME: W3-CIV-PRF-008

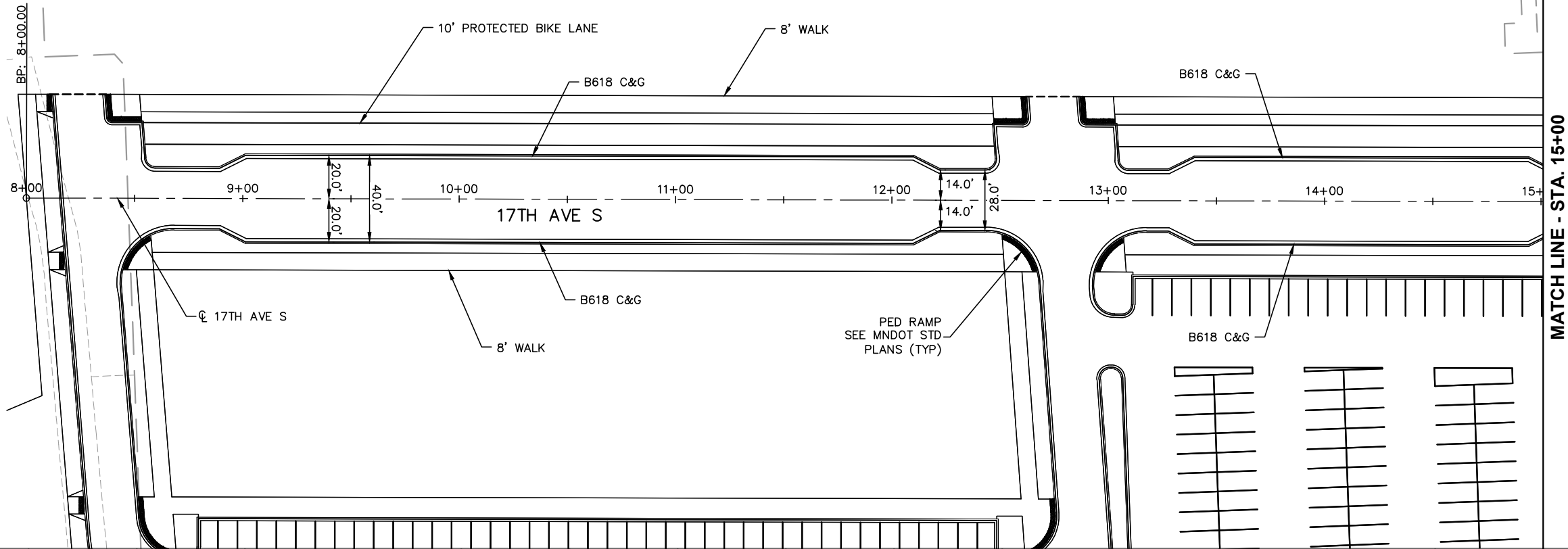
SHEET 106 OF 140

- | NOTES | |
|-------|--|
| 1. | ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED |
| 2. | SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION |
| 3. | FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND" |



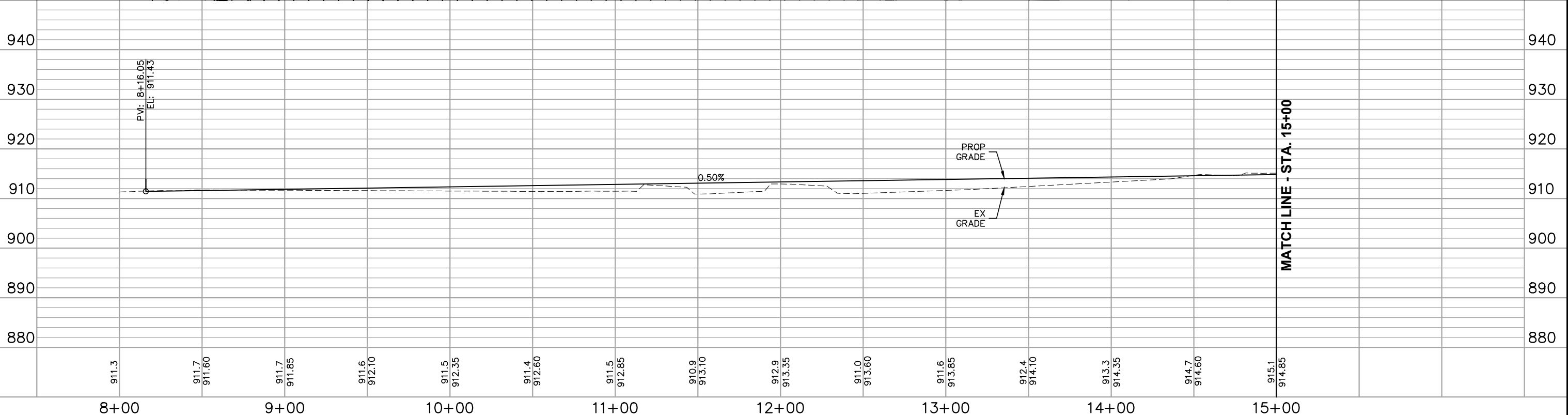
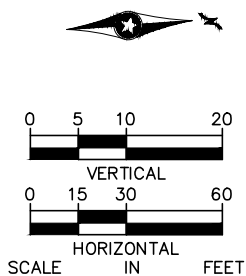
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	   		CIVIL WEST - VOLUME 2 5TH STREET SOUTH PLAN AND PROFILE STA. 0+00 TO STA. 5+50		SHEET 107 OF 140
						60% SUBMISSION - 09/28/15		DISCIPLINE: CIVIL SHEET NAME: W3-CIV-PRF-009		

Sep. 22 2015 01:00 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: kncclement



- CONSTRUCTION NOTES
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
- 1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 - 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 - 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

SRI
Consulting Group, Inc.

METROPOLITAN
C O U N C I L

SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 2
17TH AVENUE SOUTH
PLAN AND PROFILE
STA. 8+00 TO STA. 15+00

DISCIPLINE: CIVIL

60% SUBMISSION - 09/28/15

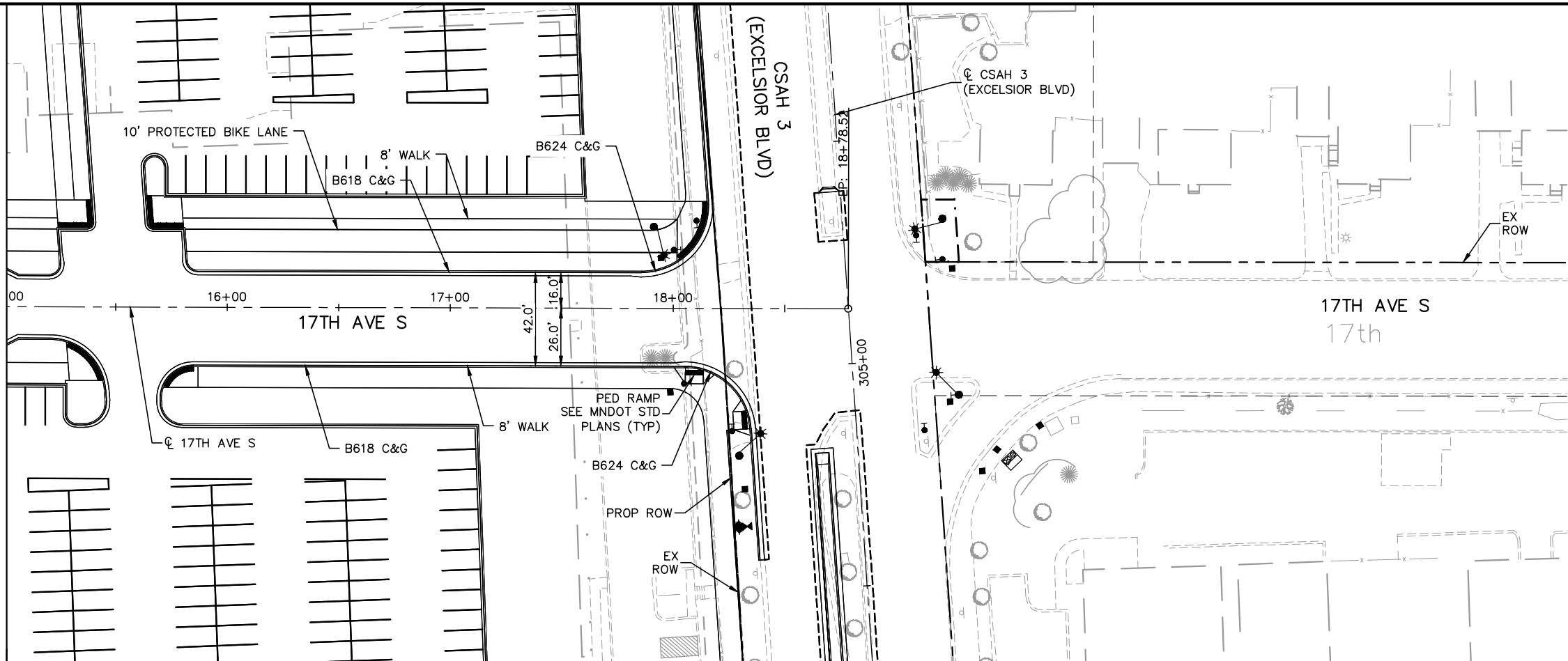
SHEET NAME: W3-CIV-PRF-010

SHEET 108 OF 140

Sep. 22 2015 01:01 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: kmcolement

MATCH LINE - STA. 15+00

MATCH LINE - STA. 15+00

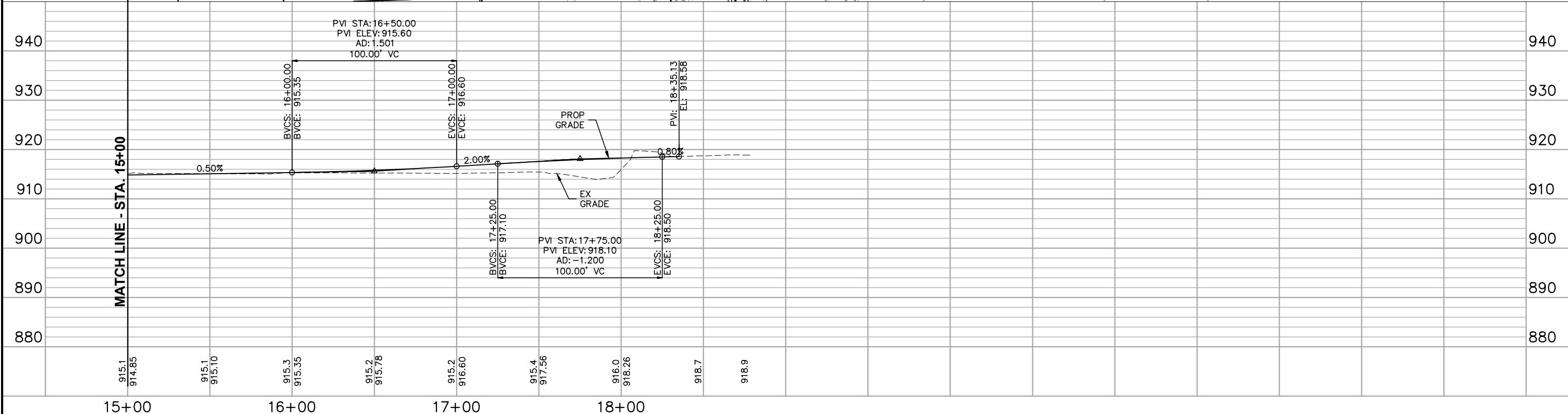
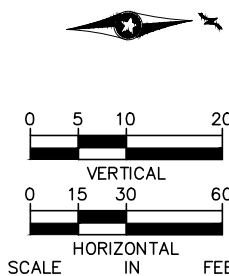


CONSTRUCTION NOTES

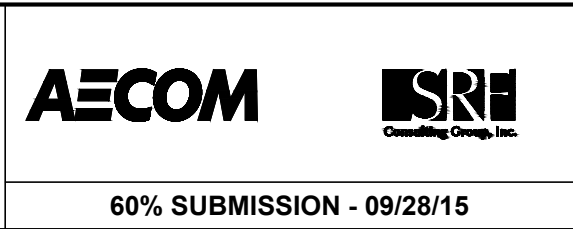
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



CIVIL

DISCIPLINE:

W3-CIV-PRF-011

SHEET NAME:

109

OF

140

CIVIL WEST - VOLUME 2

17TH AVENUE SOUTH

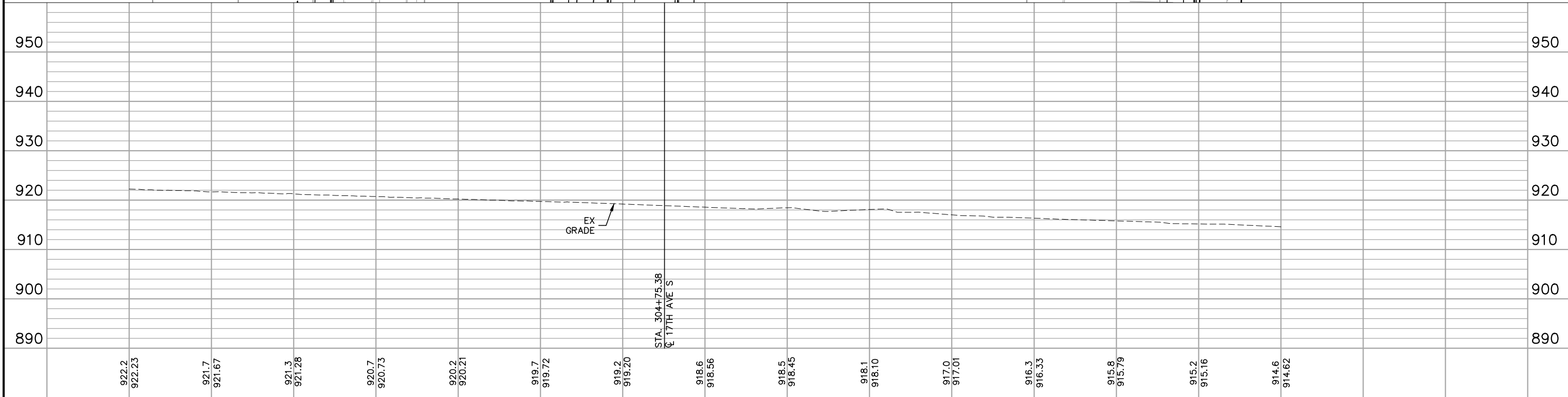
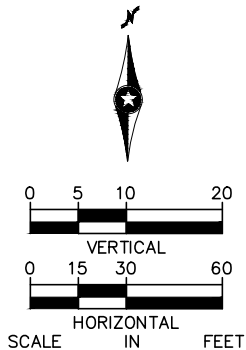
PLAN AND PROFILE

STA. 15+00 TO STA. 18+78

60% SUBMISSION - 09/28/15

- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
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3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



302+00						303+00						304+00						305+00						306+00						307+00						308+00						SHEET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL							AECOM 						METROPOLITAN COUNCIL 						CIVIL WEST - VOLUME 2 EXCELSIOR BOULEVARD PLAN AND PROFILE STA. 301+50 TO STA. 308+50						110																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

Sep. 22 2015 01:02 pm V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-ALG.dwg By: kmclement

ALIGNMENT DATA TRAIL 1														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L19	58+00.00	58+76.44							76.44	137721.69	491643.45	137774.28	491698.92	46°31'34"
C22	58+76.44	59+96.05	59+44.57		68°31'48"	57°17'44.81"	100.00	68.13	119.61	137774.28	491698.92	137792.30	491810.07	46°31'34" 115°03'22"
C23	59+96.05	60+64.06	60+30.65		25°58'47"	38°11'49.87"	150.00	34.60	68.01	137792.30	491810.07	137750.74	491863.18	115°03'22" 141°02'09"
C24	60+64.06	61+73.37	61+18.86		10°05'39"	9°14'06.95"	620.40	54.79	109.30	137750.74	491863.18	137672.23	491939.02	141°02'09" 130°56'30"
C25	61+73.37	62+37.73	62+06.71		36°52'51"	57°17'44.81"	100.00	33.34	64.37	137672.23	491939.02	137648.02	491997.47	130°56'30" 94°03'39"
L20	62+37.73	63+27.01							89.28	137648.02	491997.47	137641.70	492086.52	94°03'39"
C26	63+27.01	64+30.82	63+82.12		47°35'06"	45°50'11.84"	125.00	55.11	103.81	137641.70	492086.52	137594.58	492175.69	94°03'39" 141°38'45"
L21	64+30.82	65+20.55							89.73	137594.58	492175.69	137524.22	492231.37	141°38'45"
C27	65+20.55	66+09.87	65+66.92		37°54'37"	42°26'28.75"	135.00	46.37	89.32	137524.22	492231.37	137476.85	492305.18	141°38'45" 103°44'08"
L22	66+09.87	66+31.65							21.78	137476.85	492305.18	137471.68	492326.34	103°44'08"
C28	66+31.65	67+03.77	66+67.89		13°46'25"	19°05'54.94"	300.00	36.23	72.12	137471.68	492326.34	137463.10	492397.77	103°44'08" 89°57'43"
L23	67+03.77	67+11.39							7.62	137463.10	492397.77	137463.10	492405.39	89°57'43"
C29	67+11.39	67+80.59	67+46.83		30°29'49"	44°04'25.24"	130.00	35.44	69.20	137463.10	492405.39	137445.16	492471.38	89°57'43" 120°27'32"
L24	67+80.59	68+59.95							79.36	137445.16	492471.38	137404.93	492539.79	120°27'32"
C30	68+59.95	69+26.55	68+94.00		29°21'13"	44°04'25.24"	130.00	34.05	66.60	137404.93	492539.79	137387.02	492603.18	120°27'32" 91°06'19"
L25	69+26.55	69+62.98							36.43	137387.02	492603.18	137386.31	492639.60	91°06'19"

ALIGNMENT DATA TRAIL 2														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C31	79+65.14	80+00.00	79+82.89		26°37'41"	76°23'39.74"	75.00	17.75	34.86	137794.06	491834.50	137810.92	491864.65	74°06'15" 47°28'34"
L26	80+00.00	83+11.82							311.83	137810.92	491864.65	138021.68	492094.46	47°28'34"
C32	83+11.82	83+93.99	83+55.39		47°04'50"	57°17'44.81"	100.00	43.56	82.17	138021.68	492094.46	138094.69	492126.87	47°28'34" 0°23'44"
L27	83+93.99	85+23.70							129.71	138094.69	492126.87	138224.39	492127.77	0°23'44"
C33	85+23.70	85+29.47	85+26.59		6°36'33"	114°35'29.61"	50.00	2.89	5.77	138224.39	492127.77	138230.15	492127.48	0°23'44" 353°47'11"
C34	85+29.47	85+35.28	85+32.38		6°39'29"	114°35'29.61"	50.00	2.91	5.81	138230.15	492127.48	138235.95	492127.18	353°47'11" 0°26'40"
L28	85+35.28	85+62.27							26.99	138235.95	492127.18	138262.94	492127.39	0°26'40"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 2
TRAIL
ALIGNMENT PLANS
SHEET 1

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-005

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ALIGNMENT DATA TRAIL 2														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L22	85+62.27	95+73.16							1010.89	138262.94	492127.39	139273.80	492135.23	0°26'40"
C16	95+73.16	96+43.83	96+18.15		89°59'17"	127°19'26.24"	45.00	44.99	70.68	139273.80	492135.23	139318.45	492180.57	0°26'40" 90°25'57"
L23	96+43.83	97+35.40							91.57	139318.45	492180.57	139317.76	492272.14	90°25'57"
C17	97+35.40	97+89.93	97+69.95		89°15'16"	163°42'08.02"	35.00	34.55	54.52	139317.76	492272.14	139352.04	492307.40	90°25'57" 1°10'41"
L24	97+89.93	100+67.68							277.76	139352.04	492307.40	139629.74	492313.11	1°10'41"
C18	100+67.68	102+52.37	101+64.29		41°29'50"	22°28'08.16"	255.00	96.60	184.69	139629.74	492313.11	139797.34	492380.58	1°10'41" 42°40'31"
L25	102+52.37	103+83.79							131.42	139797.34	492380.58	139893.96	492469.65	42°40'31"

ALIGNMENT DATA TRAIL 3														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L26	0+00.00	0+03.23							3.23	138900.99	492011.42	138901.39	492014.62	82°48'57"
C19	0+03.23	0+31.99	0+20.74		82°24'12"	286°28'44.03"	20.00	17.51	28.76	138901.39	492014.62	138921.09	492032.12	82°48'57" 0°24'45"
L27	0+31.99	1+71.60							139.61	138921.09	492032.12	139060.70	492033.13	0°24'45"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 2
TRAIL
ALIGNMENT PLANS
SHEET 2

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-ALG-004

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ALIGNMENT DATA TRAIL 4														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L28	30+00.00	31+18.11							118.11	139756.80	491425.87	139774.28	491542.69	81°29'16"
C20	31+18.11	31+88.43	31+57.94		67°08'56"	95°29'34.68"	60.00	39.83	70.32	139774.28	491542.69	139746.17	491602.80	81°29'16" 148°38'12"
L29	31+88.43	32+64.49							76.06	139746.17	491602.80	139681.22	491642.39	148°38'12"
C21	32+64.49	33+54.87	33+13.03		51°46'57"	57°17'44.81"	100.00	48.54	90.38	139681.22	491642.39	139633.98	491715.84	148°38'12" 96°51'15"
L30	33+54.87	34+55.47							100.60	139633.98	491715.84	139621.97	491815.72	96°51'15"
C22	34+55.47	35+57.21	35+08.38		38°51'39"	38°11'49.87"	150.00	52.91	101.74	139621.97	491815.72	139643.70	491913.13	96°51'15" 57°59'36"
C23	35+57.21	36+12.80	35+88.27		63°42'17"	114°35'29.61"	50.00	31.06	55.59	139643.70	491913.13	139643.85	491965.90	57°59'36" 121°41'53"
L31	36+12.80	36+21.97							9.16	139643.85	491965.90	139639.03	491973.70	121°41'53"

ALIGNMENT DATA TRAIL 5														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L32	0+00.00	0+51.03							51.03	139060.31	492083.58	139060.70	492032.55	270°26'40"
C24	0+51.03	0+82.44	0+71.03		90°00'00"	286°28'44.03"	20.00	20.00	31.42	139060.70	492032.55	139080.86	492012.70	270°26'40" 0°26'40"
L33	0+82.44	4+67.16							384.72	139080.86	492012.70	139465.56	492015.69	0°26'40"
C25	4+67.16	5+48.06	5+08.94		35°16'24"	43°36'14.74"	131.40	41.78	80.89	139465.56	492015.69	139541.63	491992.15	0°26'40" 325°10'16"
C26	5+48.06	7+07.95	6+41.99		75°27'54"	47°11'51.64"	121.40	93.94	159.89	139541.63	491992.15	139690.02	491999.68	325°10'16" 40°38'10"
C27	7+07.95	8+01.53	7+56.82		40°48'16"	43°36'14.74"	131.40	48.87	93.58	139690.02	491999.68	139775.98	492031.37	40°38'10" 359°49'54"
L34	8+01.53	8+88.72							87.20	139775.98	492031.37	139863.18	492031.11	359°49'54"
C28	8+88.72	9+28.09	9+13.82		90°13'01"	229°10'59.22"	25.00	25.09	39.36	139863.18	492031.11	139888.25	492056.13	359°49'54" 90°02'55"
L35	9+28.09	9+89.40							61.31	139888.25	492056.13	139888.20	492117.44	90°02'55"
C29	9+89.40	10+50.89	10+21.99		46°58'41"	76°23'39.74"	75.00	32.59	61.49	139888.20	492117.44	139864.32	492172.25	90°02'55" 137°01'37"
C30	10+50.89	11+13.06	10+83.89		47°29'23"	76°23'39.74"	75.00	32.99	62.16	139864.32	492172.25	139840.45	492227.74	137°01'37" 89°32'13"
L36	11+13.06	12+22.80							109.74	139840.45	492227.74	139841.34	492337.47	89°32'13"
C31	12+22.80	12+93.28	12+58.05		3°13'51"	4°35'01.18"	1250.00	35.25	70.48	139841.34	492337.47	139843.89	492407.90	89°32'13" 86°18'23"
L37	12+93.28	12+99.91							6.63	139843.89	492407.90	139844.32	492414.51	86°18'23"
C32	12+99.91	13+18.95	13+09.92		43°38'40"	229°10'59.22"	25.00	10.01	19.04	139844.32	492414.51	139852.32	492431.29	86°18'23" 42°39'43"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 2
TRAIL
ALIGNMENT PLANS
SHEET 3

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-ALG-005

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ALIGNMENT DATA TRAIL 6														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L38	25+00.00	25+16.64							16.64	139880.45	492138.08	139897.04	492139.31	4°15'05"
C33	25+16.64	26+30.67	25+75.25		32°40'04"	28°38'52.40"	200.00	58.61	114.03	139897.04	492139.31	140007.04	492115.77	4°15'05" 331°35'00"
C34	26+30.67	26+98.59	26+64.96		19°27'30"	28°38'52.40"	200.00	34.29	67.92	140007.04	492115.77	140071.07	492094.11	331°35'00" 351°02'30"
C35	26+98.59	31+58.21	29+30.42		18°30'23"	4°01'35.07"	1423.00	231.83	459.62	140071.07	492094.11	140505.78	491951.09	351°02'30" 332°32'08"
C36	31+58.21	31+73.73	31+66.10		25°24'08"	163°42'08.02"	35.00	7.89	15.52	140505.78	491951.09	140520.66	491947.17	332°32'08" 357°56'16"
L39	31+73.73	33+78.54							204.81	140520.66	491947.17	140725.33	491939.80	357°56'16"
C37	33+78.54	34+23.99	34+03.42		57°52'26"	127°19'26.24"	45.00	24.88	45.45	140725.33	491939.80	140762.66	491917.37	357°56'16" 300°03'50"
L40	34+23.99	35+38.71							114.72	140762.66	491917.37	140820.13	491818.09	300°03'50"
C38	35+38.71	35+40.59	35+39.65		2°09'31"	114°35'29.61"	50.00	0.94	1.88	140820.13	491818.09	140821.10	491816.47	300°03'50" 302°13'21"
L41	35+40.59	36+31.42							90.83	140821.10	491816.47	140869.53	491739.63	302°13'21"
C39	36+31.42	36+35.66	36+33.54		4°51'15"	114°35'29.61"	50.00	2.12	4.24	140869.53	491739.63	140871.64	491735.96	302°13'21" 297°22'06"
L42	36+35.66	37+30.51							94.85	140871.64	491735.96	140915.24	491651.73	297°22'06"
C40	37+30.51	37+73.01	37+51.84		12°10'31"	28°38'52.40"	200.00	21.33	42.50	140915.24	491651.73	140938.63	491616.34	297°22'06" 309°32'37"
L43	37+73.01	38+52.17							79.16	140938.63	491616.34	140989.02	491555.29	309°32'37"
C41	38+52.17	39+77.51	39+14.96		8°58'37"	7°09'43.10"	800.00	62.80	125.34	140989.02	491555.29	141076.06	491465.27	309°32'37" 318°31'14"
L44	39+77.51	43+52.52							375.01	141076.06	491465.27	141357.01	491216.88	318°31'14"
C42	43+52.52	44+91.27	44+22.35		15°53'59"	11°27'32.96"	500.00	69.82	138.75	141357.01	491216.88	141446.97	491111.82	318°31'14" 302°37'15"
L45	44+91.27	46+30.69							139.42	141446.97	491111.82	141522.12	490994.40	302°37'15"
C43	46+30.69	48+46.09	47+41.07		30°51'16"	14°19'26.20"	400.00	110.38	215.40	141522.12	490994.40	141680.39	490852.13	302°37'15" 333°28'31"
L46	48+46.09	50+22.89							176.79	141680.39	490852.13	141838.58	490773.18	333°28'31"
C44	50+22.89	50+53.52	50+39.00		43°52'26"	143°14'22.02"	40.00	16.11	30.63	141838.58	490773.18	141868.37	490770.79	333°28'31" 17°20'57"
C45	50+53.52	50+62.54	50+58.10		25°50'19"	286°28'44.03"	20.00	4.59	9.02	141868.37	490770.79	141877.28	490771.48	17°20'57" 351°30'38"
L47	50+62.54	51+65.56							103.02	141877.28	490771.48	141979.18	490756.27	351°30'38"

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60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 2
TRAIL
ALIGNMENT PLANS
SHEET 4

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-ALG-006

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ALIGNMENT DATA CEDAR LAKE LRT REGIONAL TR														
SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L48	0+00.00	0+41.96							41.96	146053.75	489878.23	146068.20	489917.62	69°50'42"
C46	0+41.96	0+88.15	0+65.47		26°27'52"	57°17'44.81"	100.00	23.51	46.19	146068.20	489917.62	146093.40	489955.85	69°50'42" 43°22'50"
C47	0+88.15	1+69.66	1+29.66		26°41'09"	32°44'25.60"	175.00	41.51	81.51	146093.40	489955.85	146137.72	490023.37	43°22'50" 70°04'00"
L49	1+69.66	9+26.10							756.44	146137.72	490023.37	146395.61	490734.50	70°04'00"
C48	9+26.10	9+48.65	9+37.38		1°17'32"	5°43'46.48"	1000.00	11.28	22.56	146395.61	490734.50	146403.06	490755.78	70°04'00" 71°21'32"
L50	9+48.65	10+53.57							104.92	146403.06	490755.78	146436.59	490855.20	71°21'32"
C49	10+53.57	10+76.13	10+64.85		1°17'32"	5°43'46.48"	1000.00	11.28	22.56	146436.59	490855.20	146444.04	490876.49	71°21'32" 70°04'00"
L51	10+76.13	15+76.13							500.00	146444.04	490876.49	146614.51	491346.53	70°04'00"
C50	15+76.13	16+22.32	15+99.23		3°18'30"	7°09'43.10"	800.00	23.10	46.19	146614.51	491346.53	146631.50	491389.48	70°04'00" 66°45'29"
L52	16+22.32	16+80.08							57.76	146631.50	491389.48	146654.29	491442.55	66°45'29"
C51	16+80.08	17+26.28	17+03.18		3°18'30"	7°09'43.10"	800.00	23.10	46.19	146654.29	491442.55	146671.29	491485.50	66°45'29" 70°04'00"
L53	17+26.28	20+25.49							299.22	146671.29	491485.50	146773.30	491766.79	70°04'00"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15

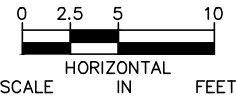
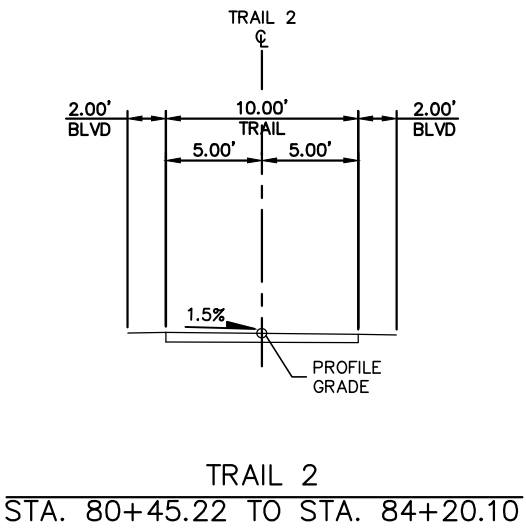
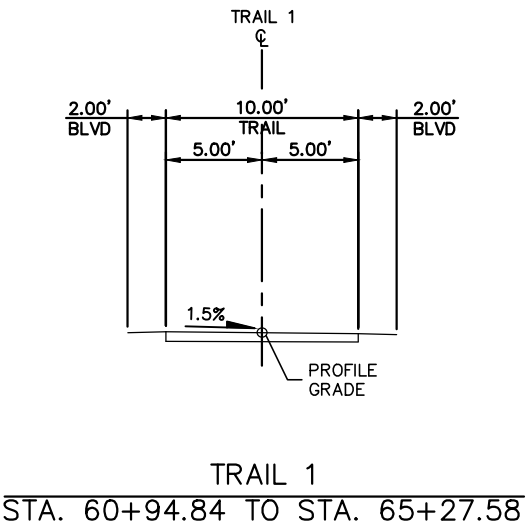


CIVIL WEST - VOLUME 2
TRAIL
ALIGNMENT PLANS
SHEET 5

DISCIPLINE: CIVIL SHEET NAME: W3-CIV-ALG-007

SHEET
115
OF
140

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60% SUBMISSION - 09/28/15

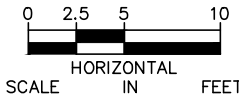
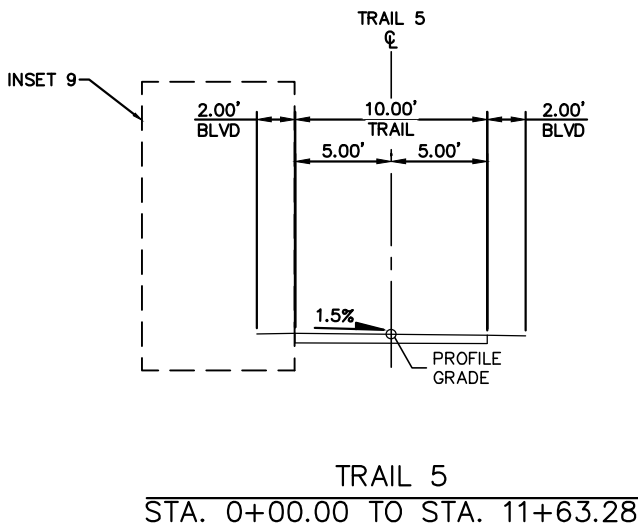
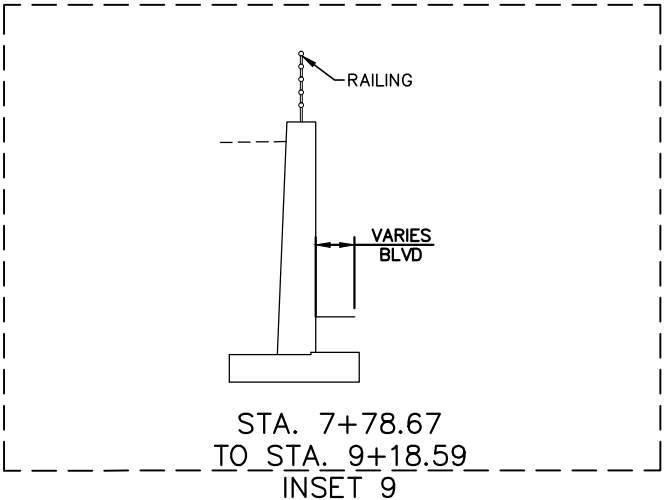
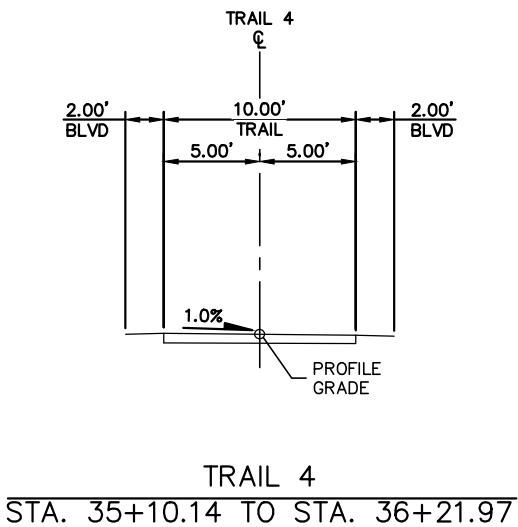
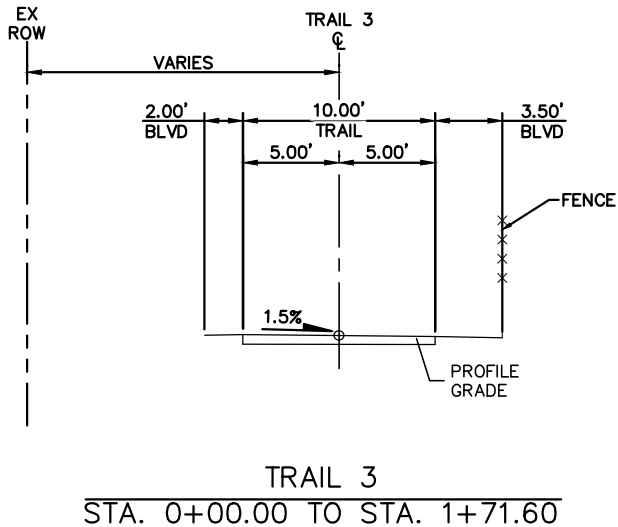
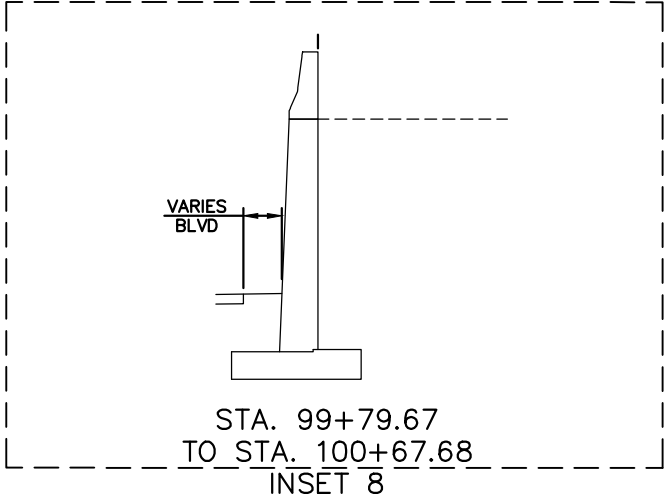
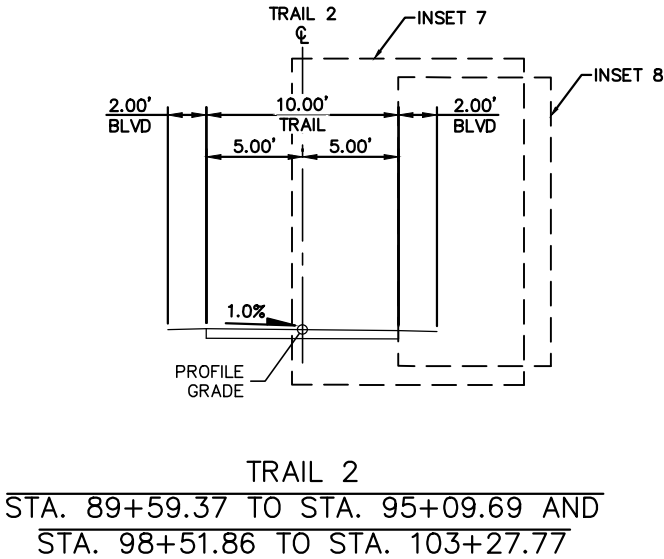
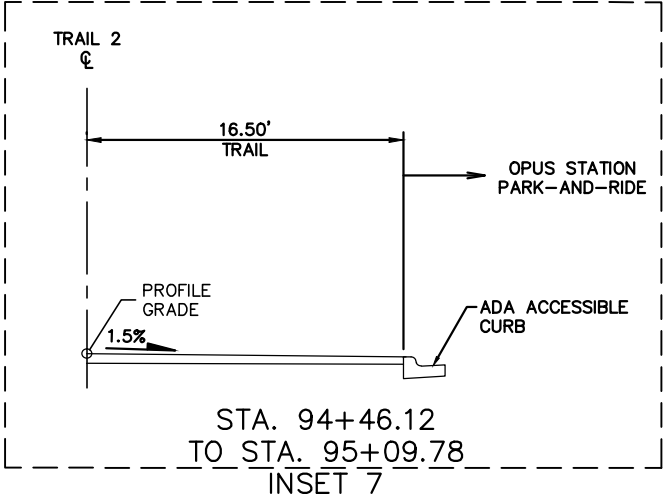


CIVIL WEST - VOLUME 2
TRAIL
TYPICAL SECTIONS
SHEET 1

DISCIPLINE: CIVIL SHEET NAME: W2-CIV-TYP-006

SHEET
116
OF
140

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AECOM

SRI
Consulting Group, Inc.

METROPOLITAN
COUNCIL

SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 2
TRAIL
TYPICAL SECTIONS
SHEET 2

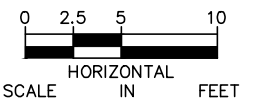
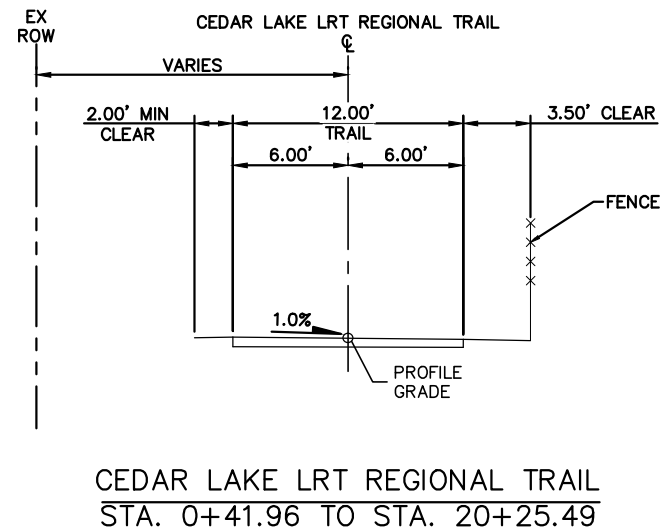
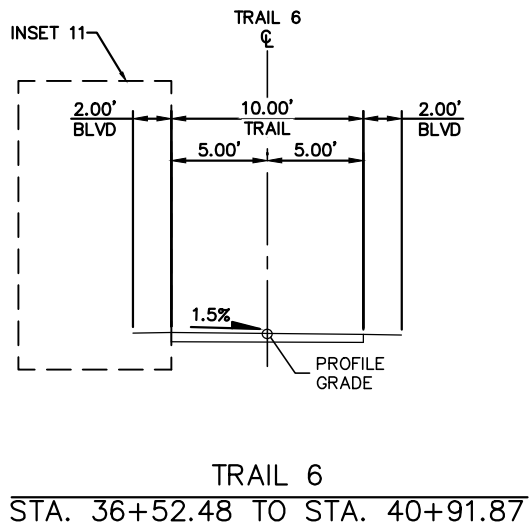
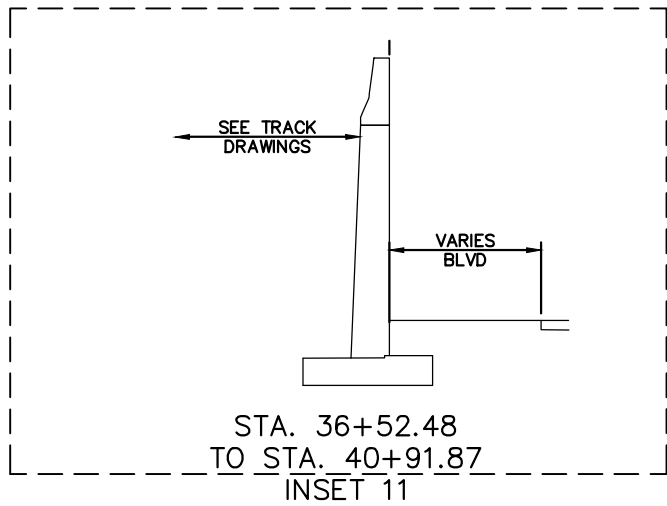
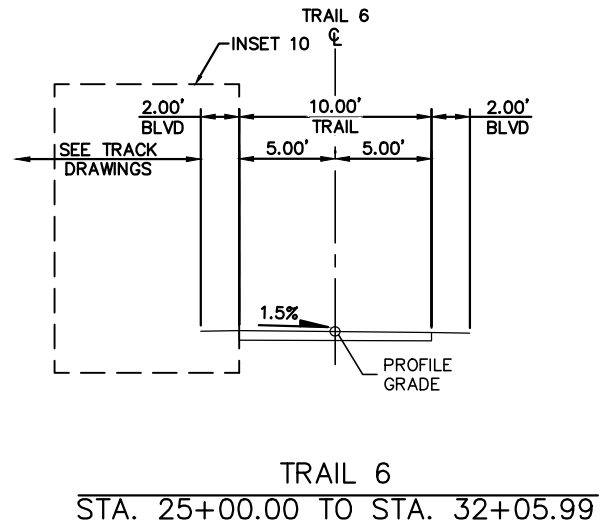
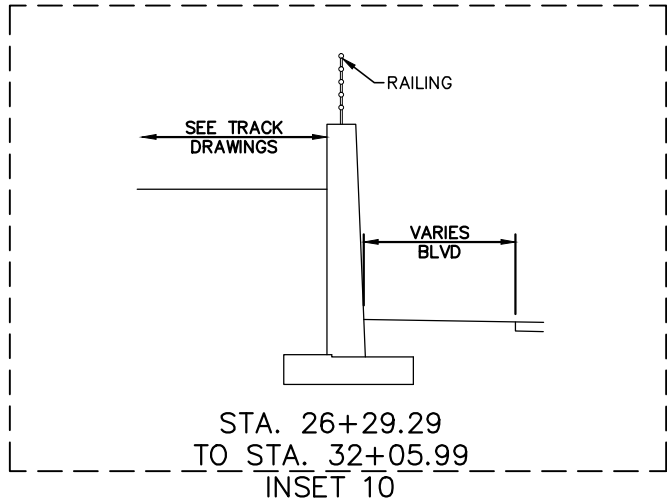
DISCIPLINE:
CIVIL

SHEET NAME:
W3-CIV-TYP-007

60% SUBMISSION - 09/28/15

SHEET
117
OF
140

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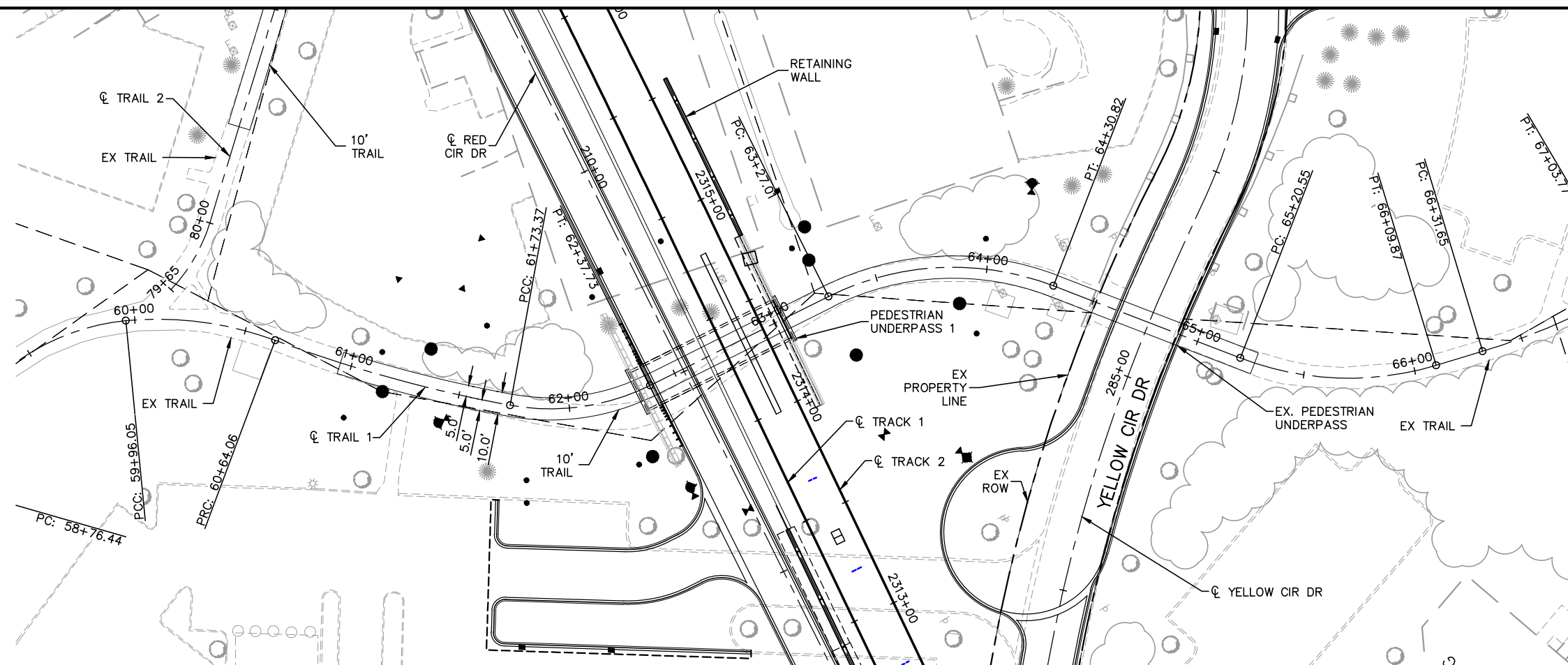


60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 2
TRAIL
TYPICAL SECTIONS
SHEET 3

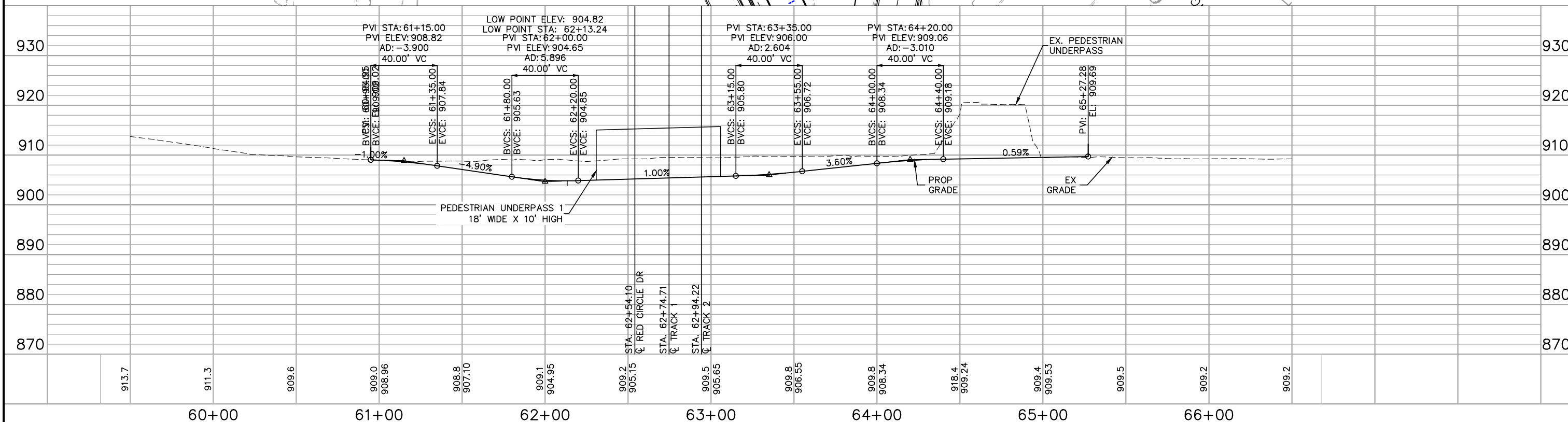
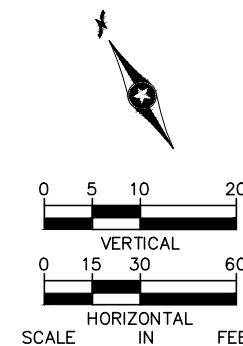
DISCIPLINE: CIVIL
SHEET NAME: W3-CIV-TYP-008

SHEET 118 OF 140



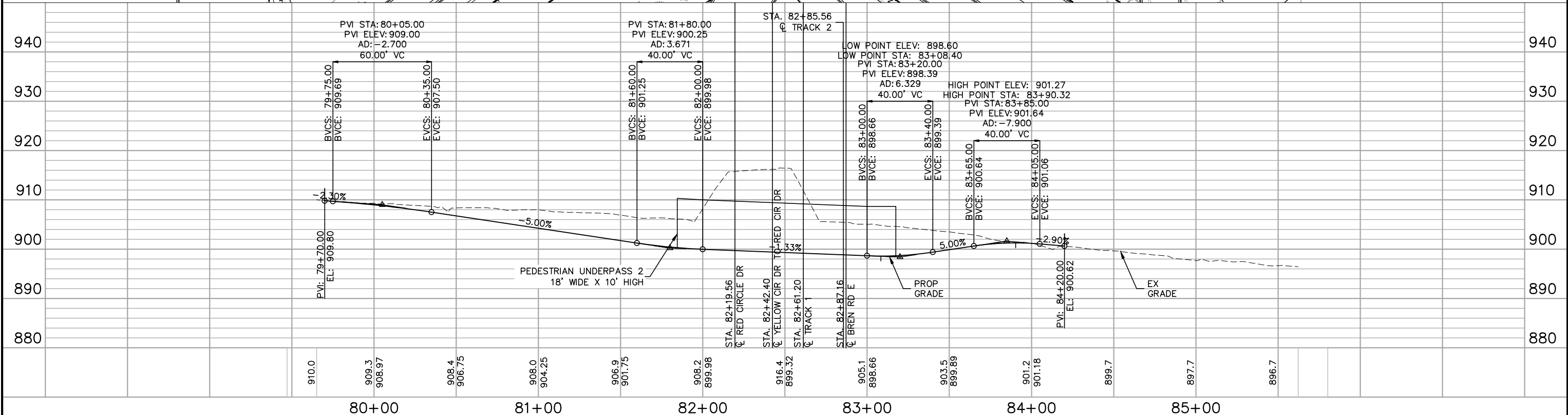
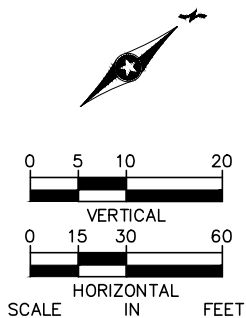
- CONSTRUCTION NOTES
-
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- ## NOTES
-
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



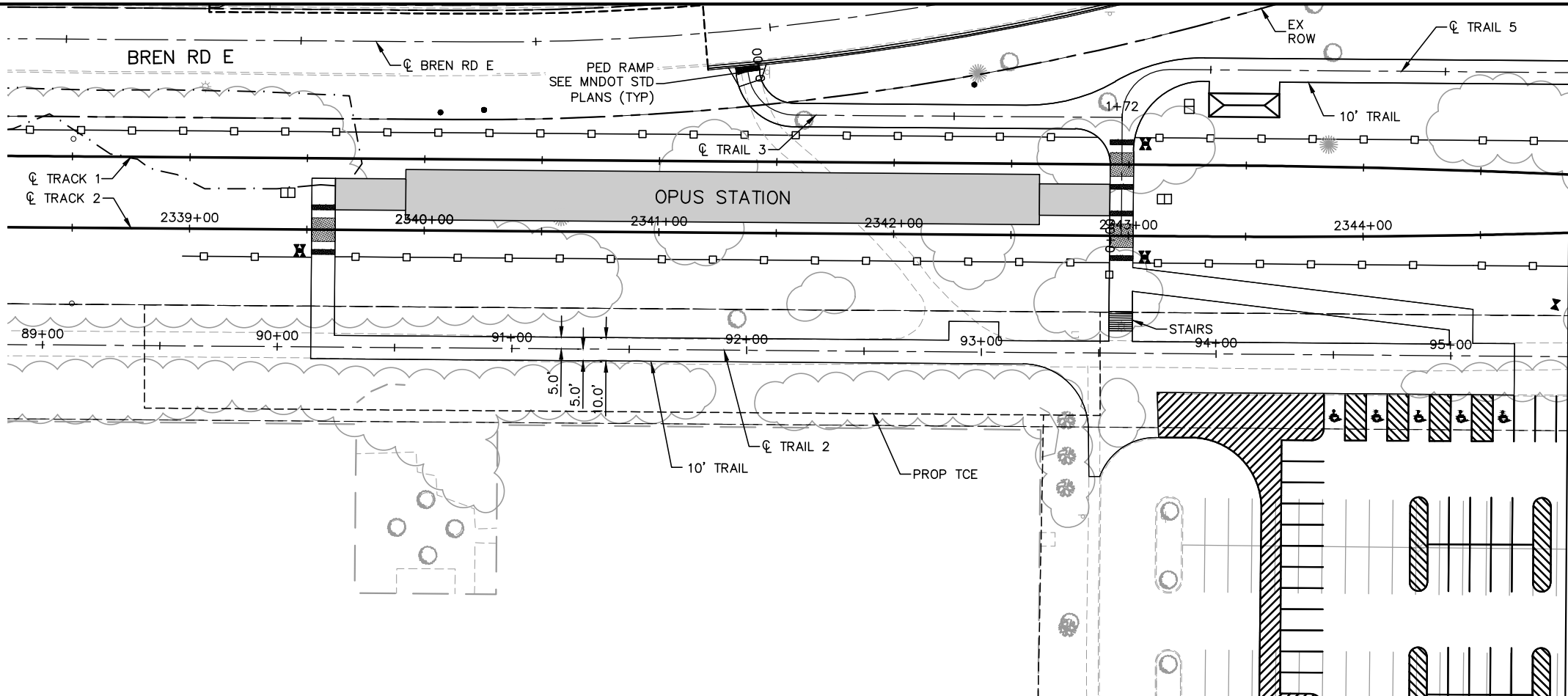
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						60% SUBMISSION - 09/28/15		DISCIPLINE:	SHEET NAME:	
								CIVIL	W2-CIV-TRL-001	119
										OF
										140

- | NOTES | |
|-------|--|
| 1. | ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED |
| 2. | SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION |
| 3. | FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND" |



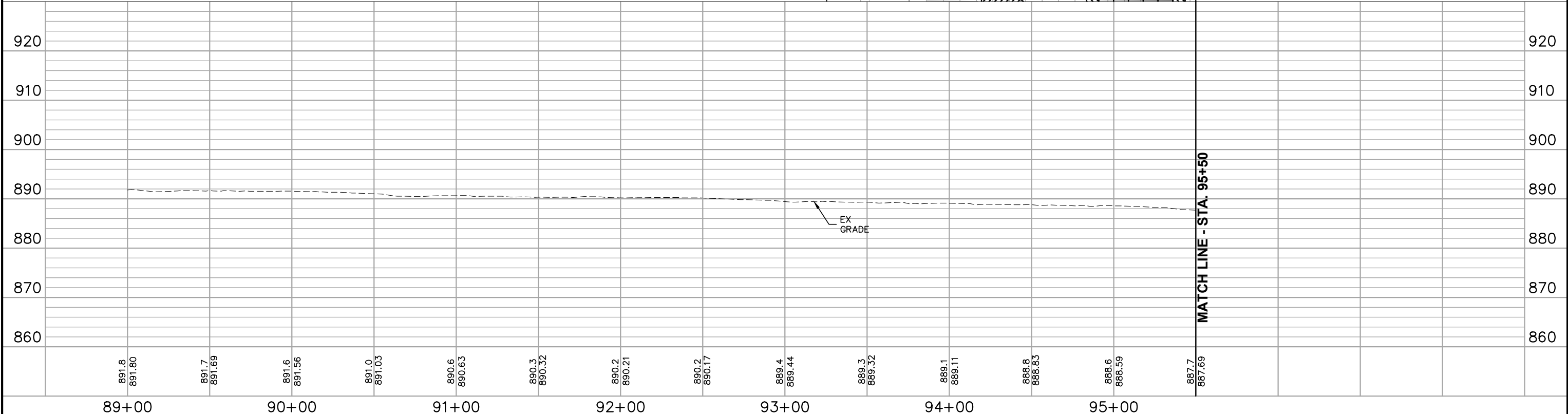
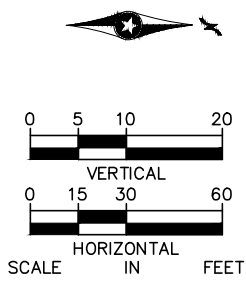
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						60% SUBMISSION - 09/28/15		DISCIPLINE: CIVIL SHEET NAME: W2-CIV-TRL-002		

Sep. 22 2015 01:08 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TRL.dwg By: kmcolement



- CONSTRUCTION NOTES
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

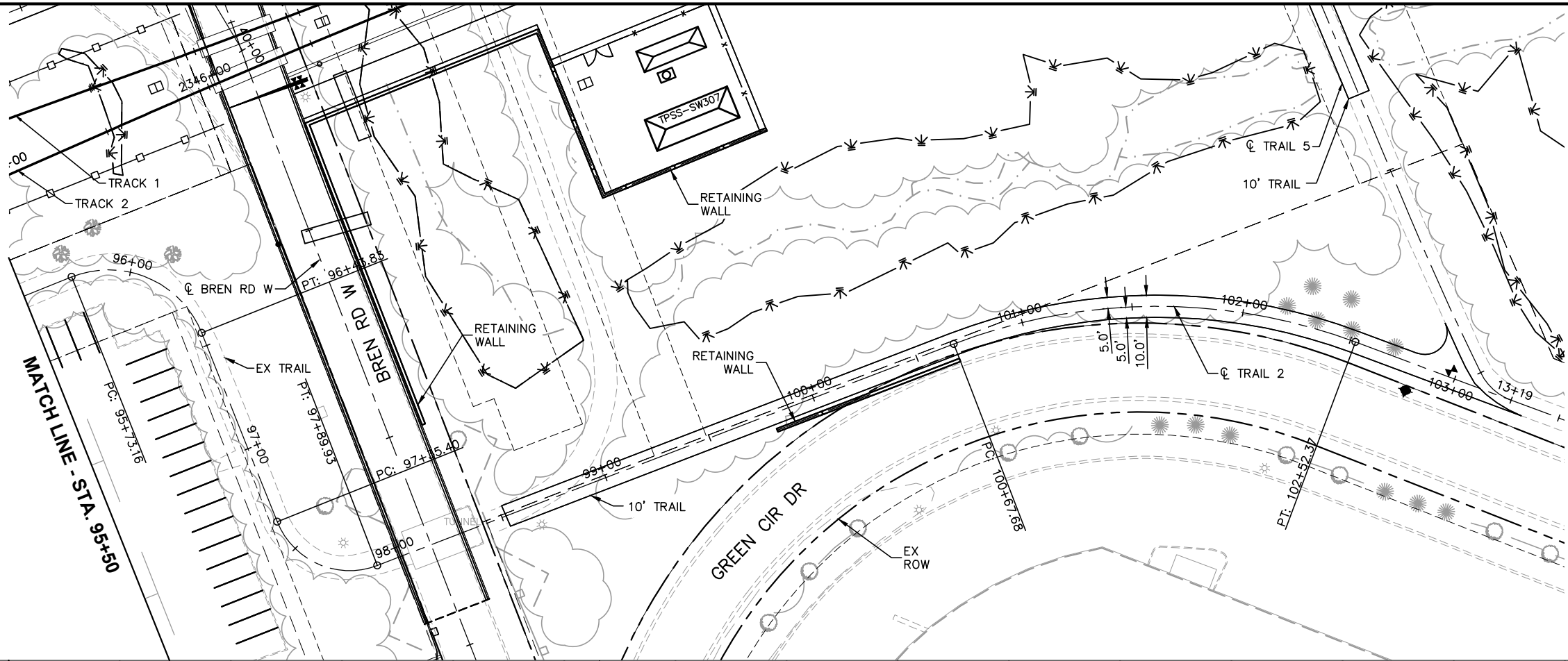


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891.8 891.80	891.7 891.69	891.6 891.56	891.0 891.03	890.6 890.63	890.3 890.32	890.2 890.21	890.2 890.17	889.4 889.44	889.3 889.32	889.1 889.11	888.8 888.83	888.6 888.59	887.7 887.69
89+00	90+00	91+00	92+00	93+00	94+00	95+00							

AECOM				SRI Consulting Group, Inc.		METROPOLITAN COUNCIL		SOUTHWEST Green Line LRT Extension		CIVIL WEST - VOLUME 2 TRAIL 2 PLAN AND PROFILE STA. 89+00 TO STA. 95+50		SHEET 121 OF 140
60% SUBMISSION - 09/28/15								DISCIPLINE: CIVIL		SHEET NAME: W3-CIV-TRL-001		

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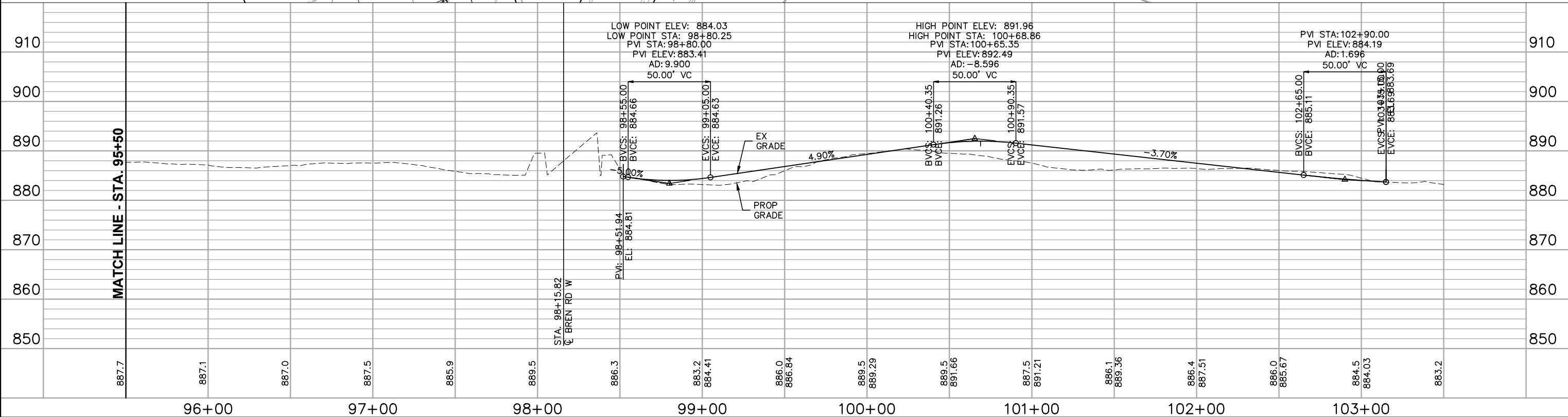
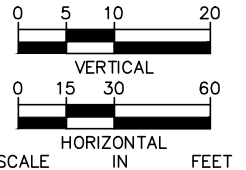


CONSTRUCTION NOTES

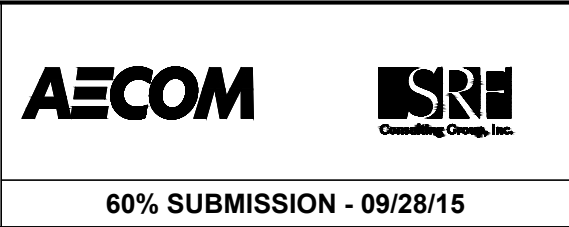
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



CIVIL WEST - VOLUME 2

TRAIL 2

PLAN AND PROFILE

STA. 95+50 TO STA. 103+50

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TRL-002

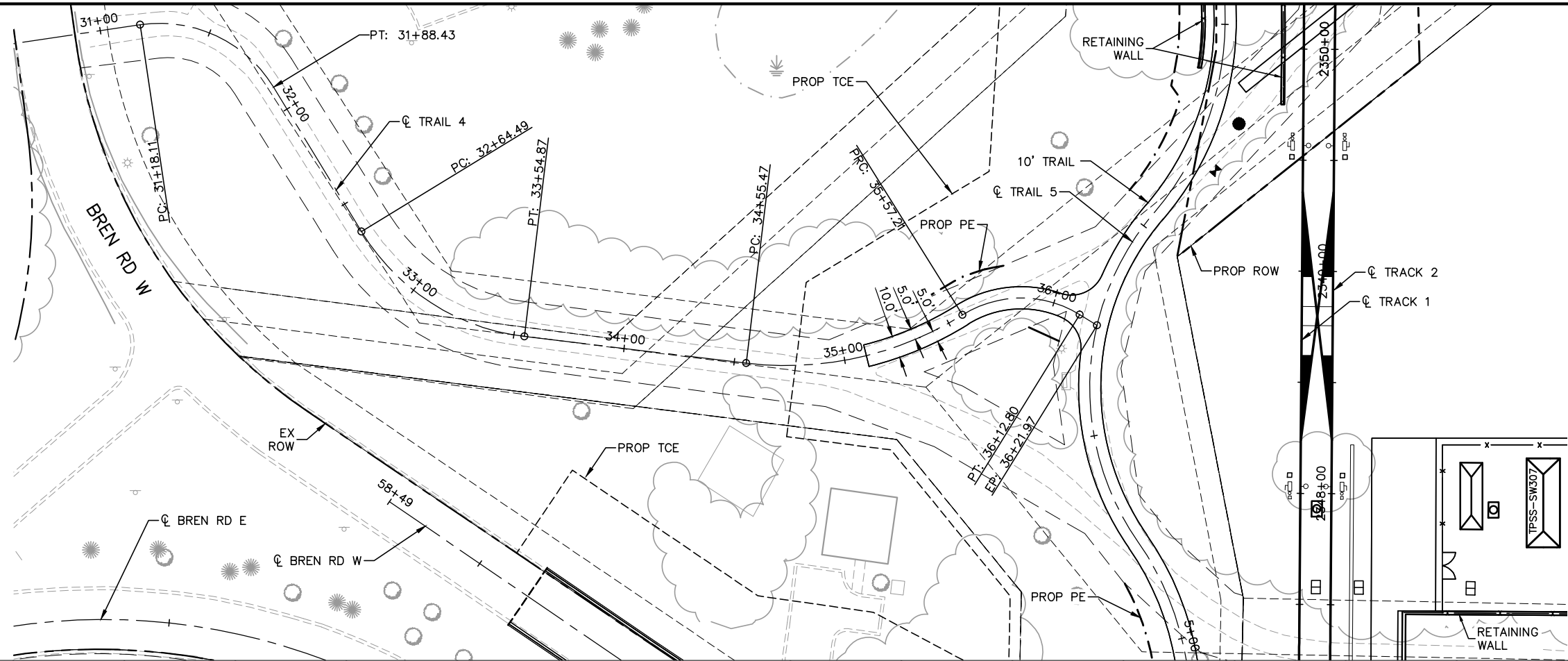
SHEET

122

OF

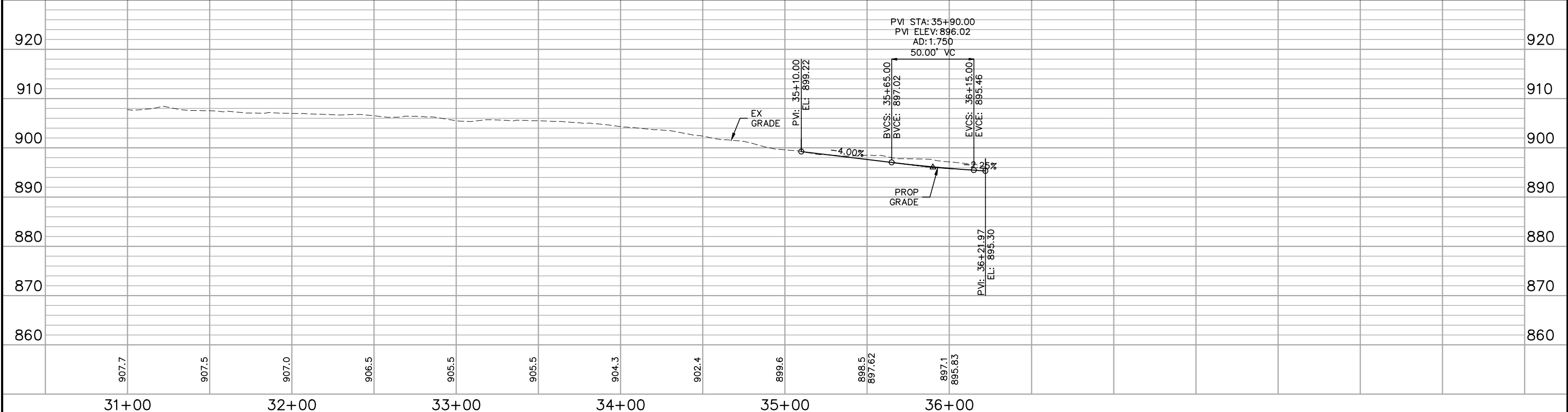
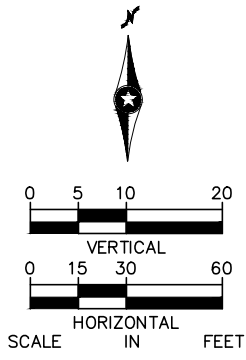
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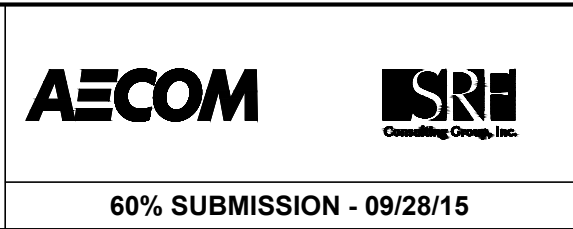


- CONSTRUCTION NOTES
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
- 1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 - 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 - 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



CIVIL WEST - VOLUME 2

TRAIL 4

PLAN AND PROFILE

STA. 31+00 TO STA. 36+22

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TRL-004

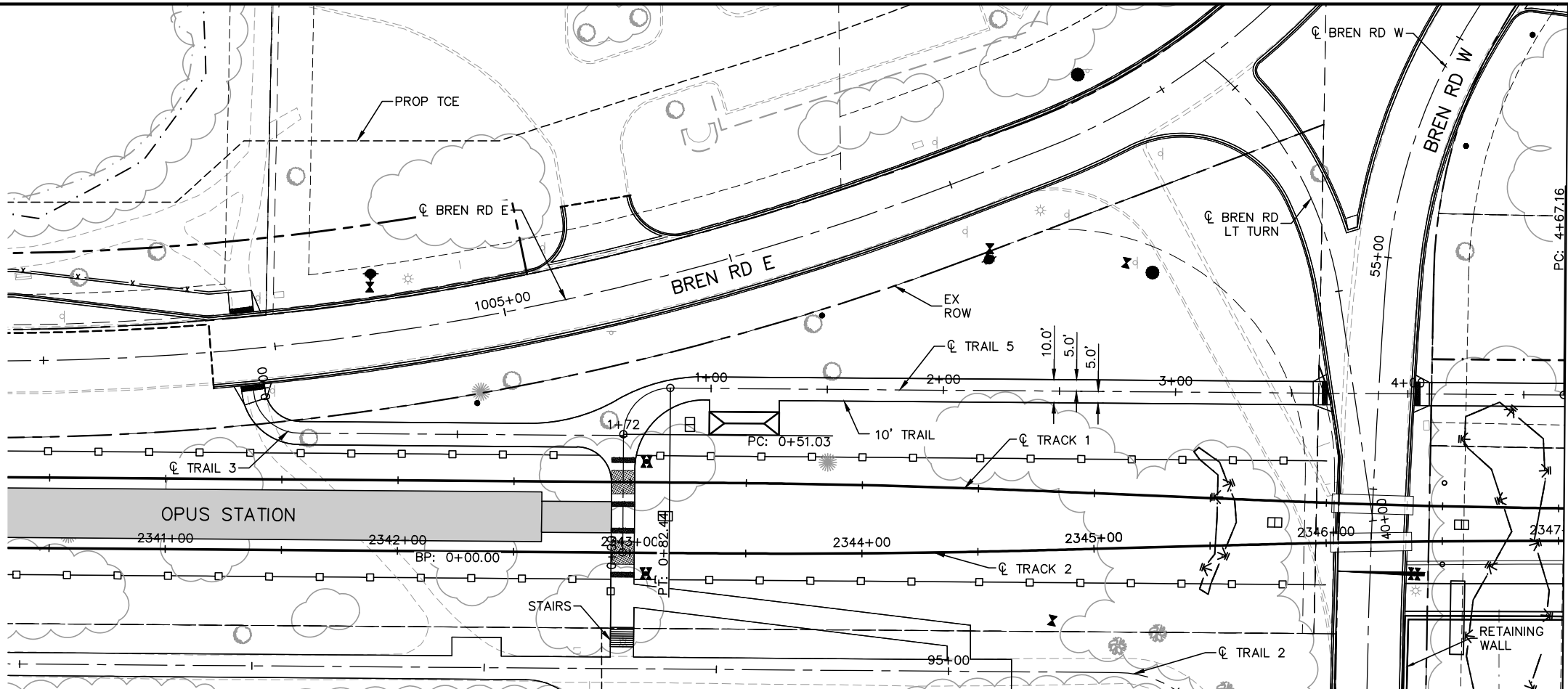
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124

OF

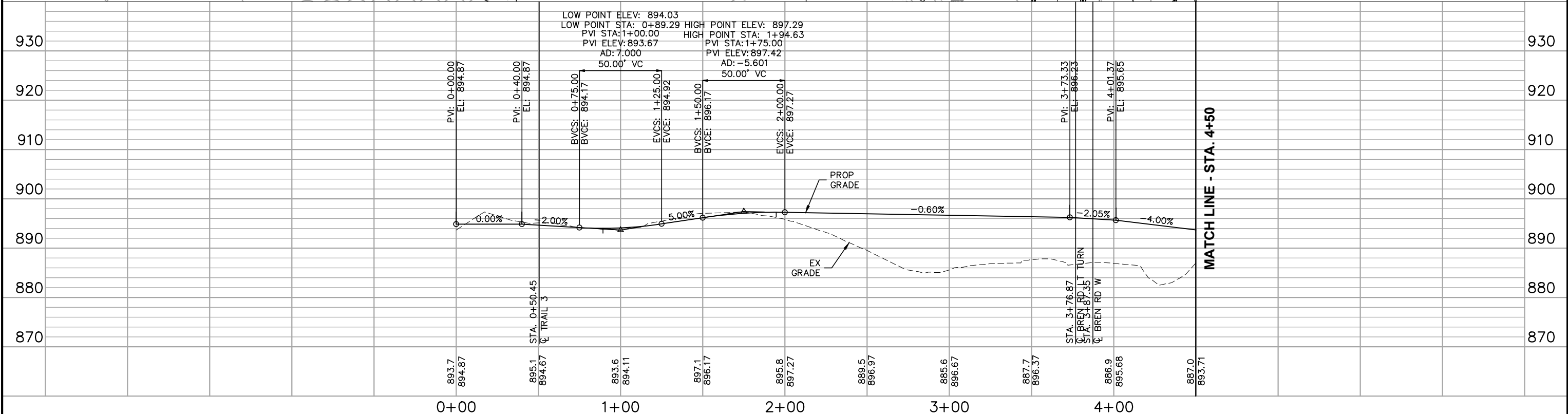
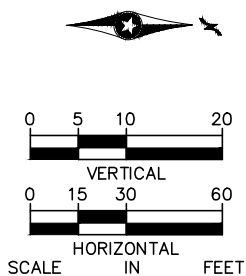
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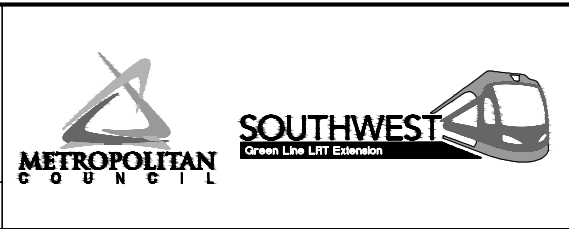
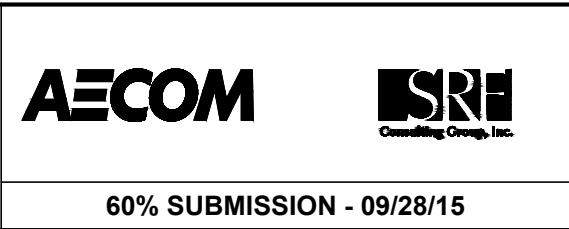


- CONSTRUCTION NOTES
- 1 DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 - 2 DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



CIVIL WEST - VOLUME 2

TRAIL 5

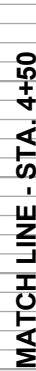
PLAN AND PROFILE

STA. 0+00 TO STA. 4+50

DISCIPLINE: CIVIL

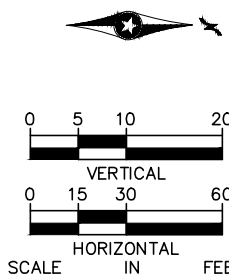
SHEET NAME: W3-CIV-TRL-005

SHEET 125 OF 140



- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

[illegible]**AECOM**

SRE
Consulting Group, Inc.



METROPOLITAN
COUNCIL

SOUTHWEST

Green Line LRT Extension

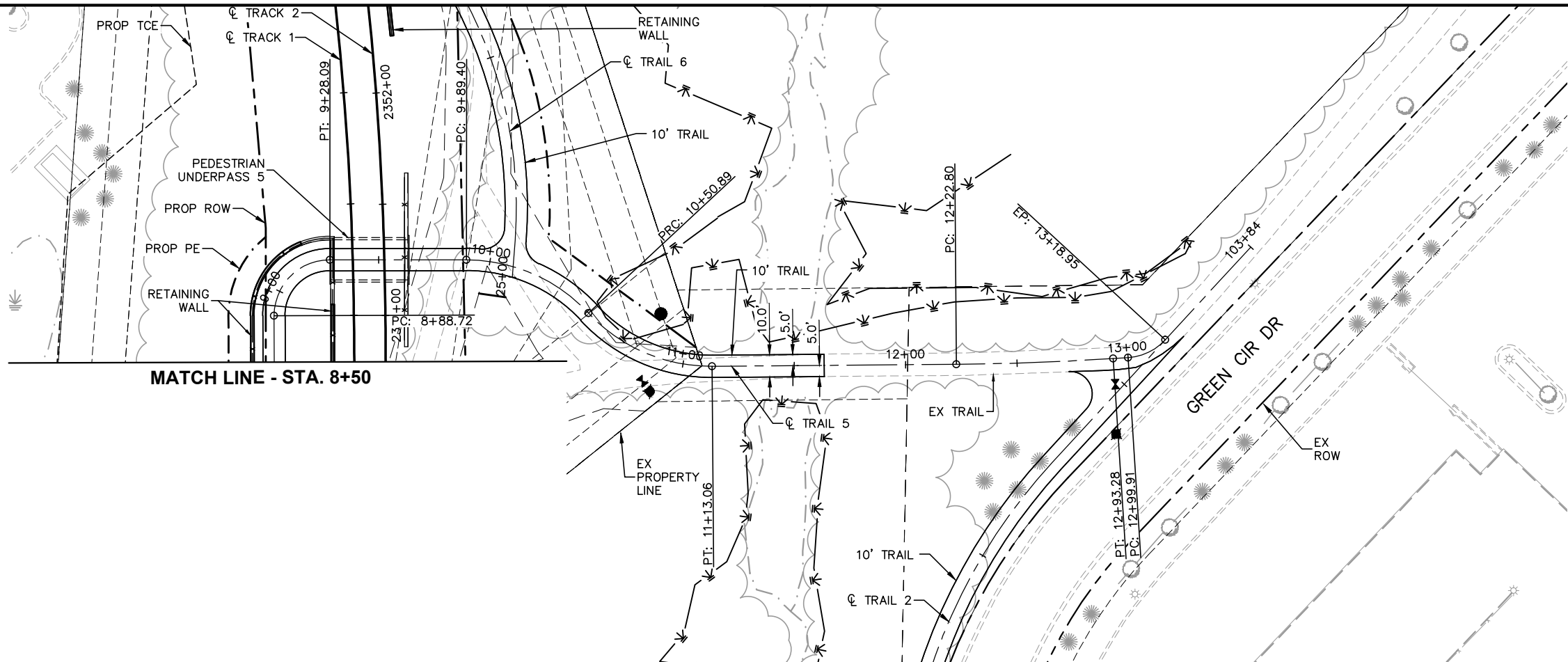
CIVIL WEST - VOLUME 2
TRAIL 5
PLAN AND PROFILE
STA. 4+50 TO STA. 8+50

DISCIPLINE: **CIVIL**

SHEET NAME:	W3-CIV-TRL-006
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SHEET
126
OF
140

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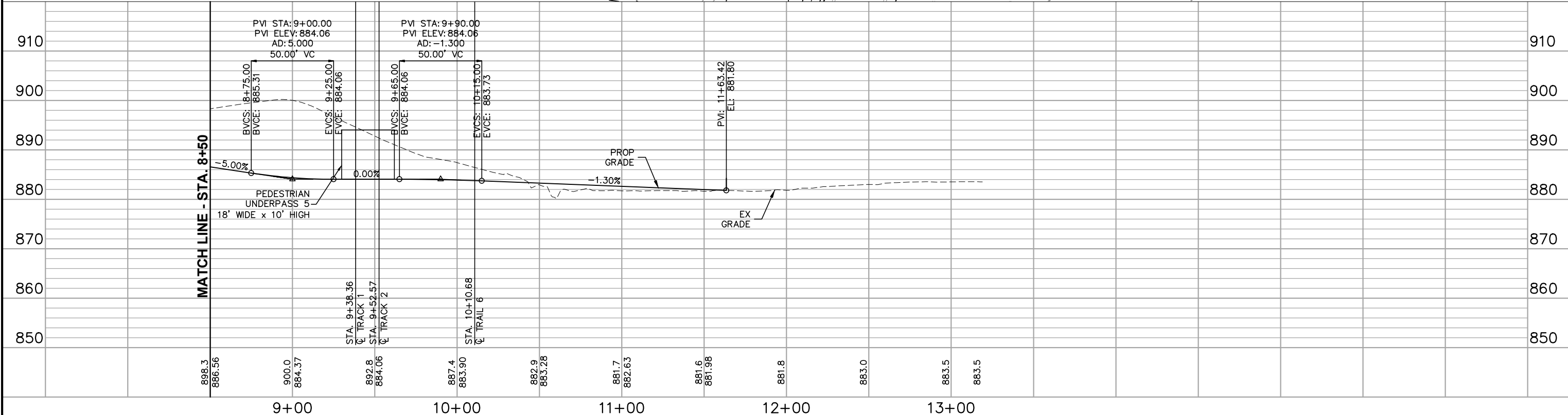
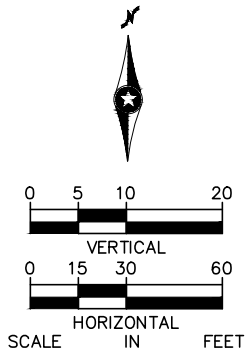


CONSTRUCTION NOTES

- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
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3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15

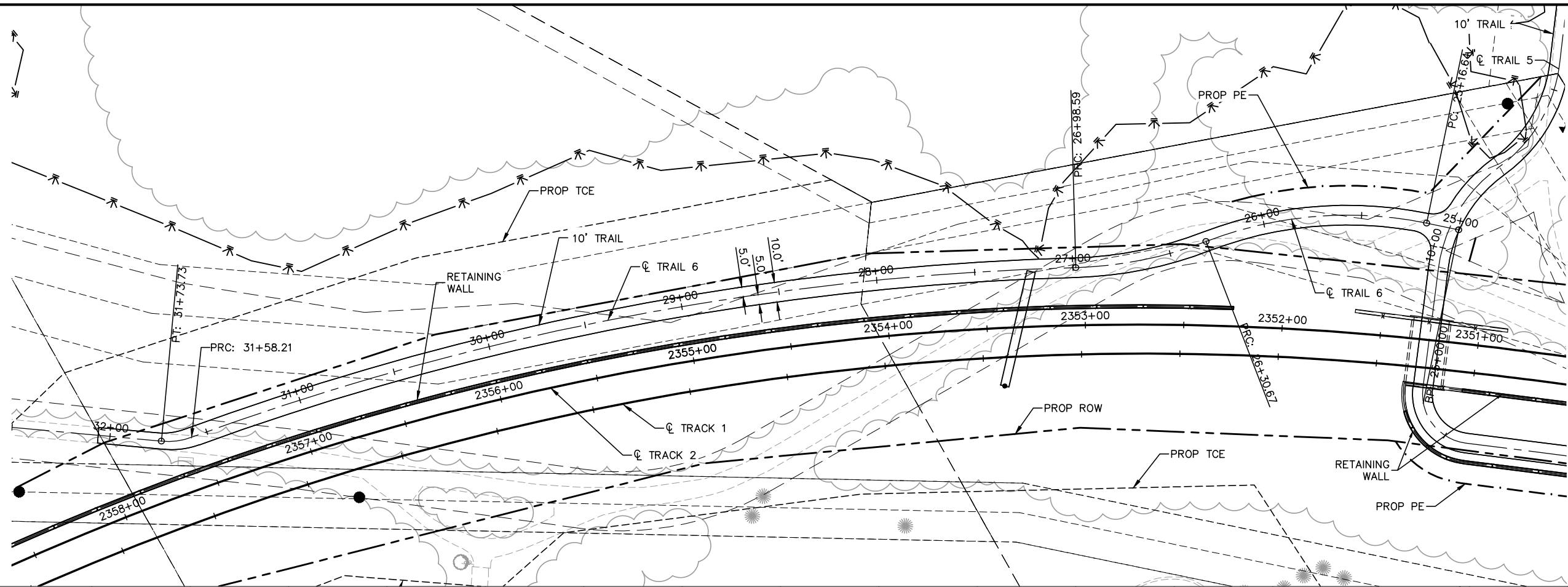


CIVIL WEST - VOLUME 2
TRAIL 5
PLAN AND PROFILE
STA. 8+50 TO STA. 13+19

DISCIPLINE: CIVIL
SHEET NAME: W3-CIV-TRL-007

SHEET 127 OF 140

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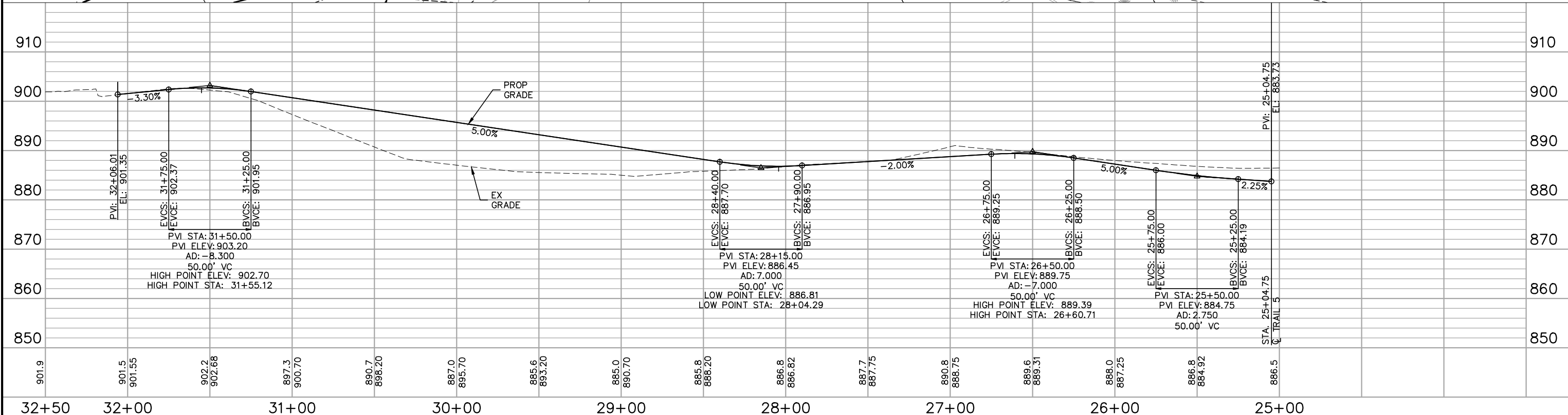
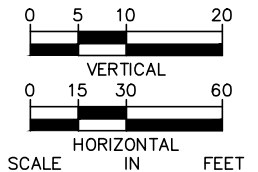


CONSTRUCTION NOTES

- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
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3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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C O U N C I L

SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 2
TRAIL 6
PLAN AND PROFILE
STA. 25+00 TO STA. 32+50

DISCIPLINE:

CIVIL

SHEET NAME:

W3-CIV-TRL-008

SHEET

128

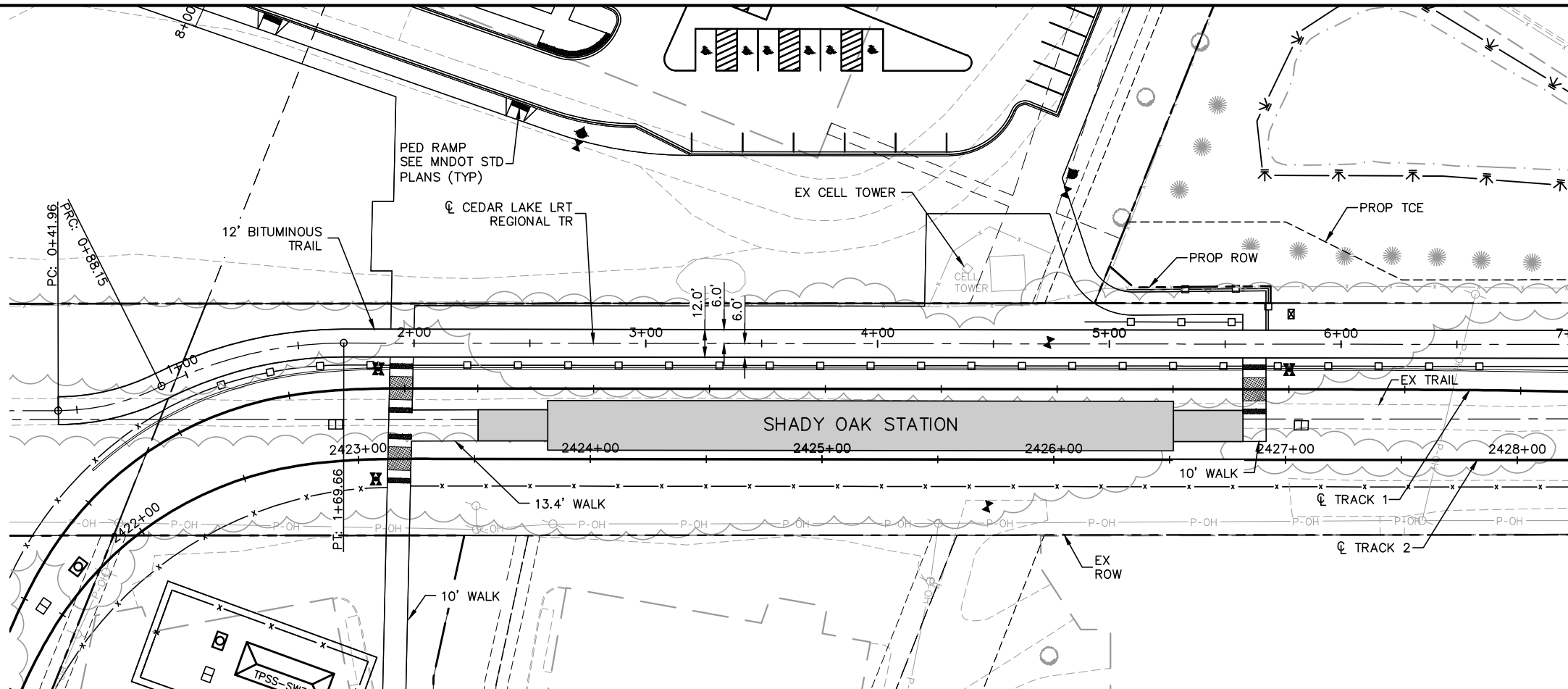
OF

140

60% SUBMISSION - 09/28/15

42+00						41+00						40+00						39+00						38+00						37+00						36+00					
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL							 						 						CIVIL WEST - VOLUME 2 TRAIL 6 PLAN AND PROFILE STA. 35+50 TO STA. 42+00																	
						60% SUBMISSION - 09/28/15						DISCIPLINE: CIVIL						SHEET NAME: W3-CIV-TRL-009																							

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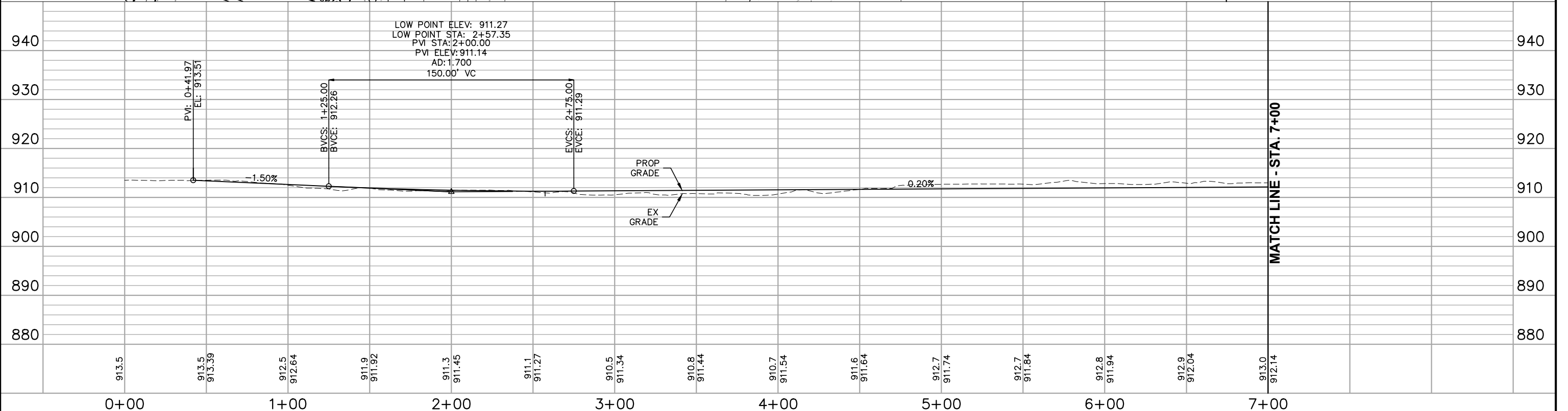
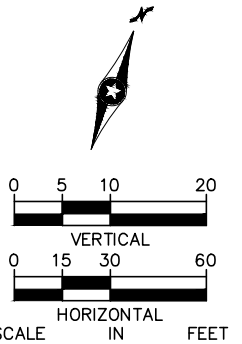


CONSTRUCTION NOTES

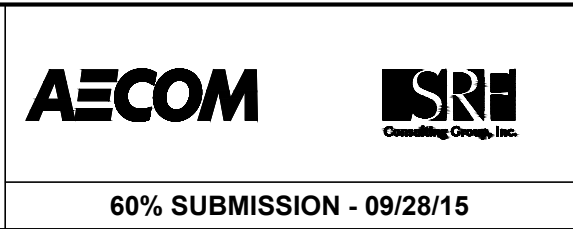
- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



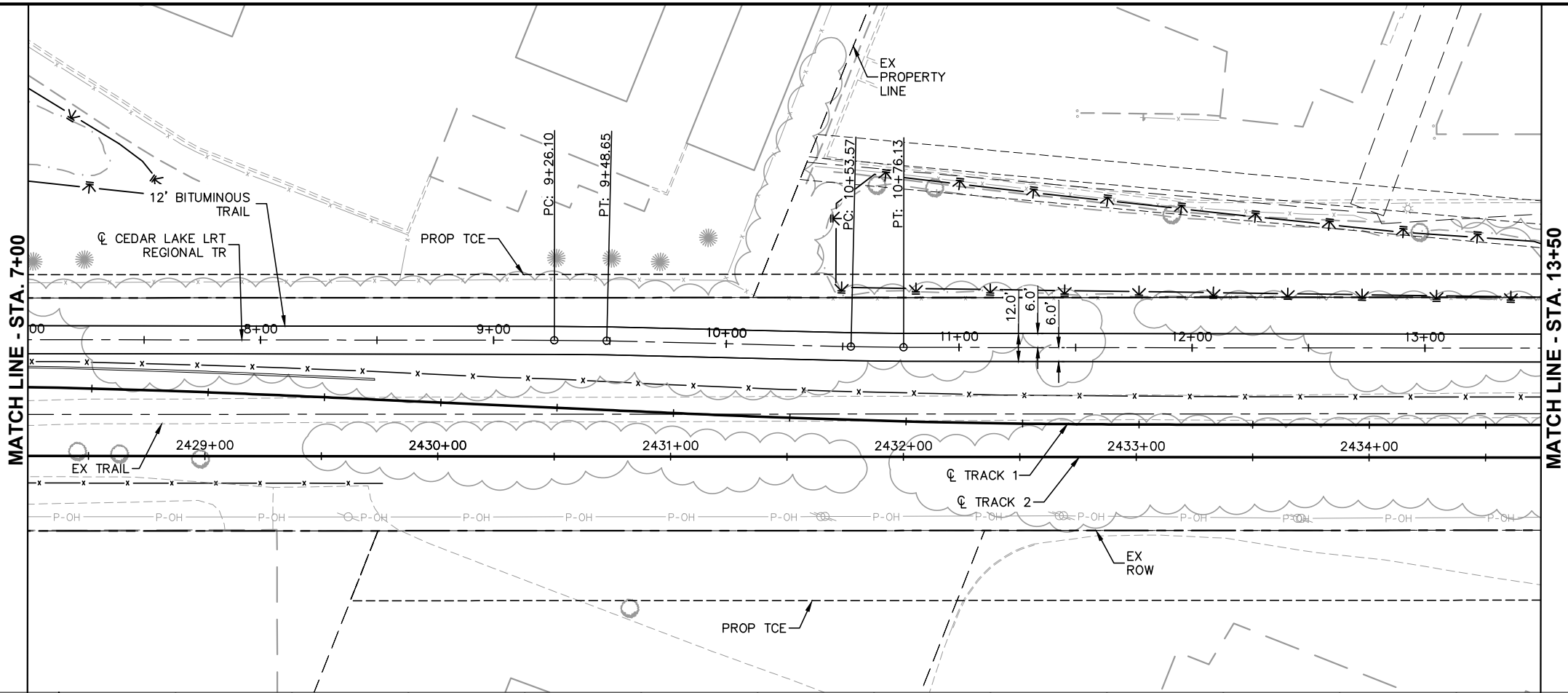
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



CIVIL WEST - VOLUME 2
CEDAR LAKE LRT REGIONAL TRAIL
PLAN AND PROFILE
STA. 0+00 TO STA. 7+00

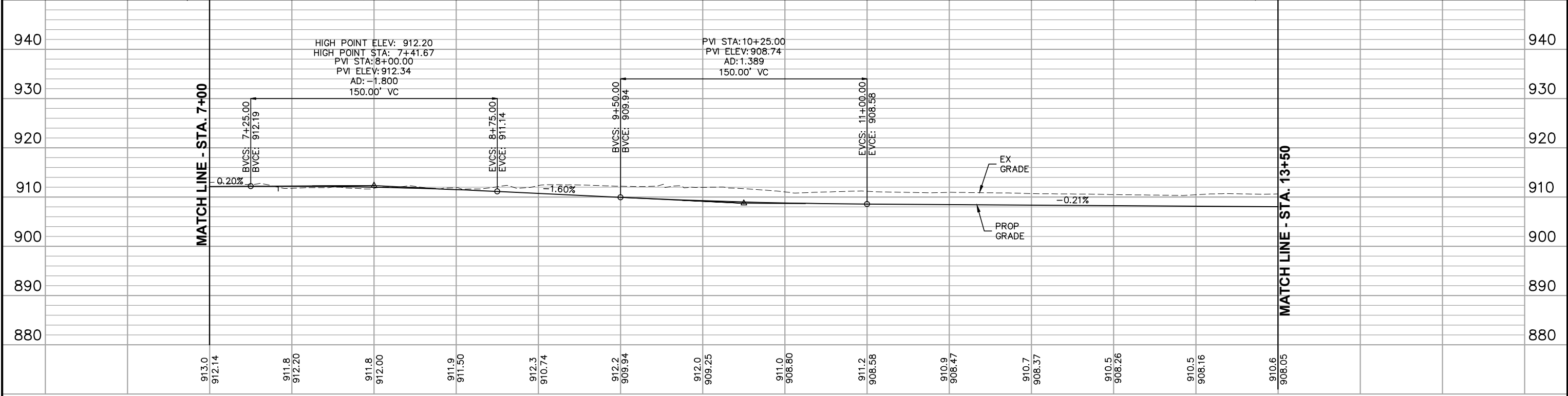
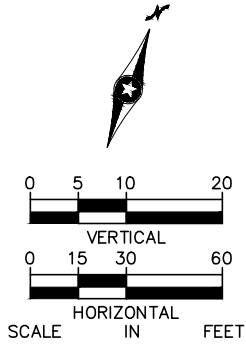
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- CONSTRUCTION NOTES
1. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
 2. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

- NOTES
1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
 2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
 3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

60% SUBMISSION - 09/28/15

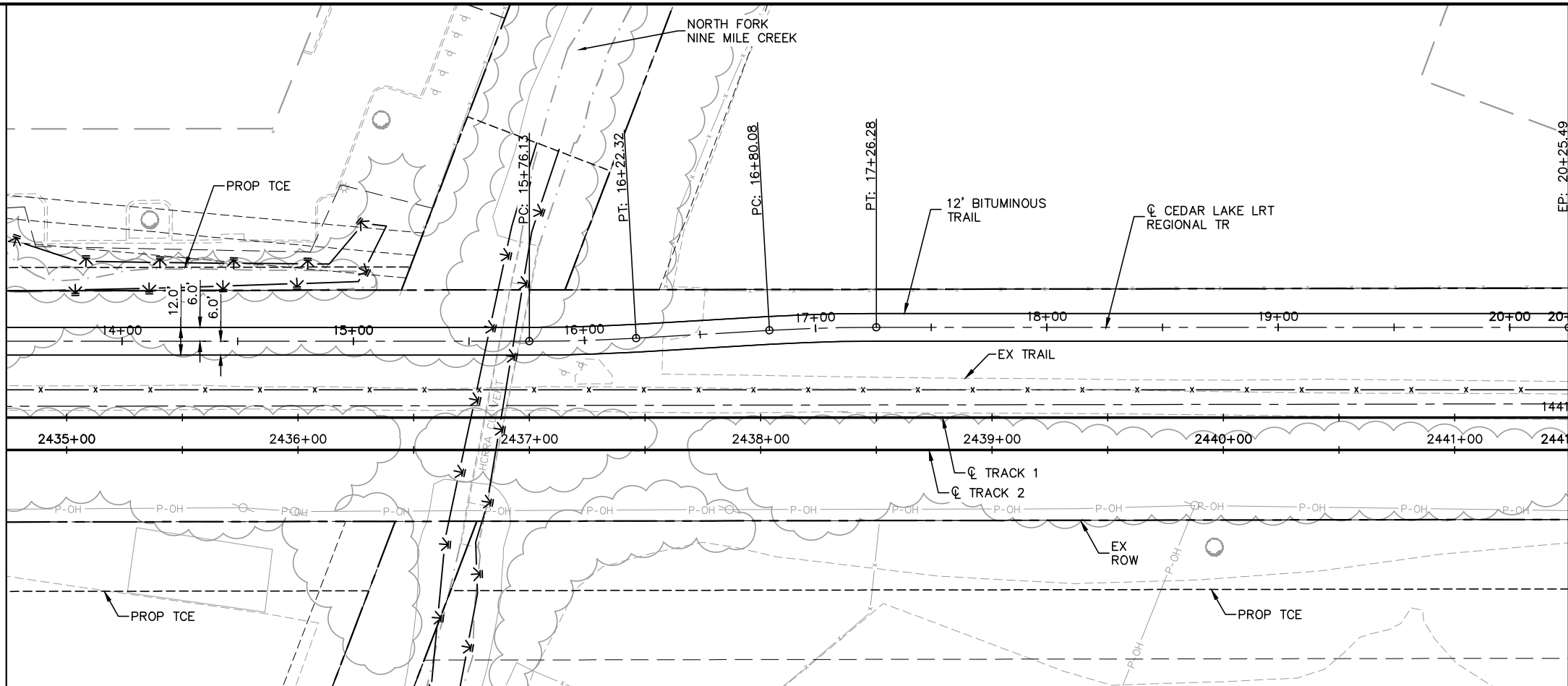
CIVIL WEST - VOLUME 2
CEDAR LAKE LRT REGIONAL TRAIL
PLAN AND PROFILE
STA. 7+00 TO STA. 13+50

DISCIPLINE: CIVIL
SHEET NAME: W3-CIV-TRL-011

SHEET 131 OF 140

Sep. 22 2015 01:12 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TRL.dwg By: kmcclement

MATCH LINE - STA. 13+50



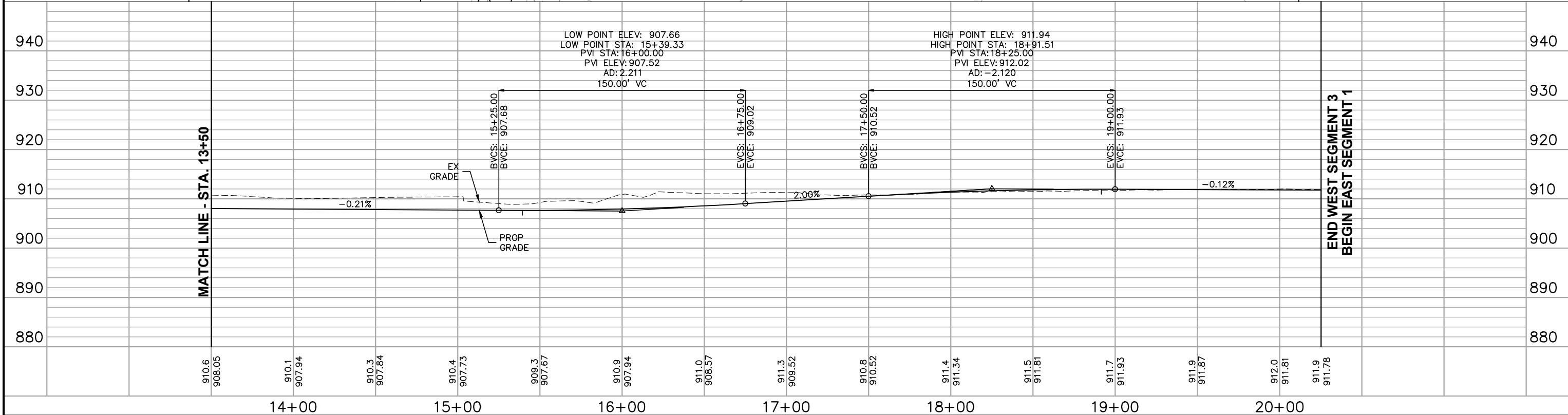
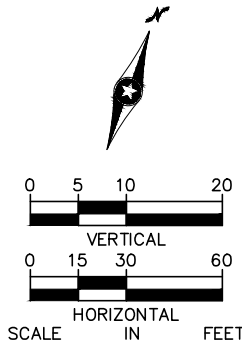
END WEST SEGMENT 3
BEGIN EAST SEGMENT 1

CONSTRUCTION NOTES

- ① DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
- ② DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

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3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"



END WEST SEGMENT 3
BEGIN EAST SEGMENT 1

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



CIVIL WEST - VOLUME 2
CEDAR LAKE LRT REGIONAL TRAIL
PLAN AND PROFILE
STA. 13+50 TO STA. 20+25

DISCIPLINE: CIVIL

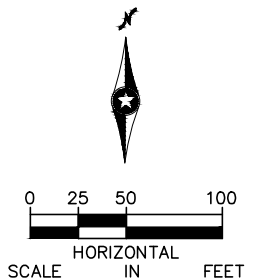
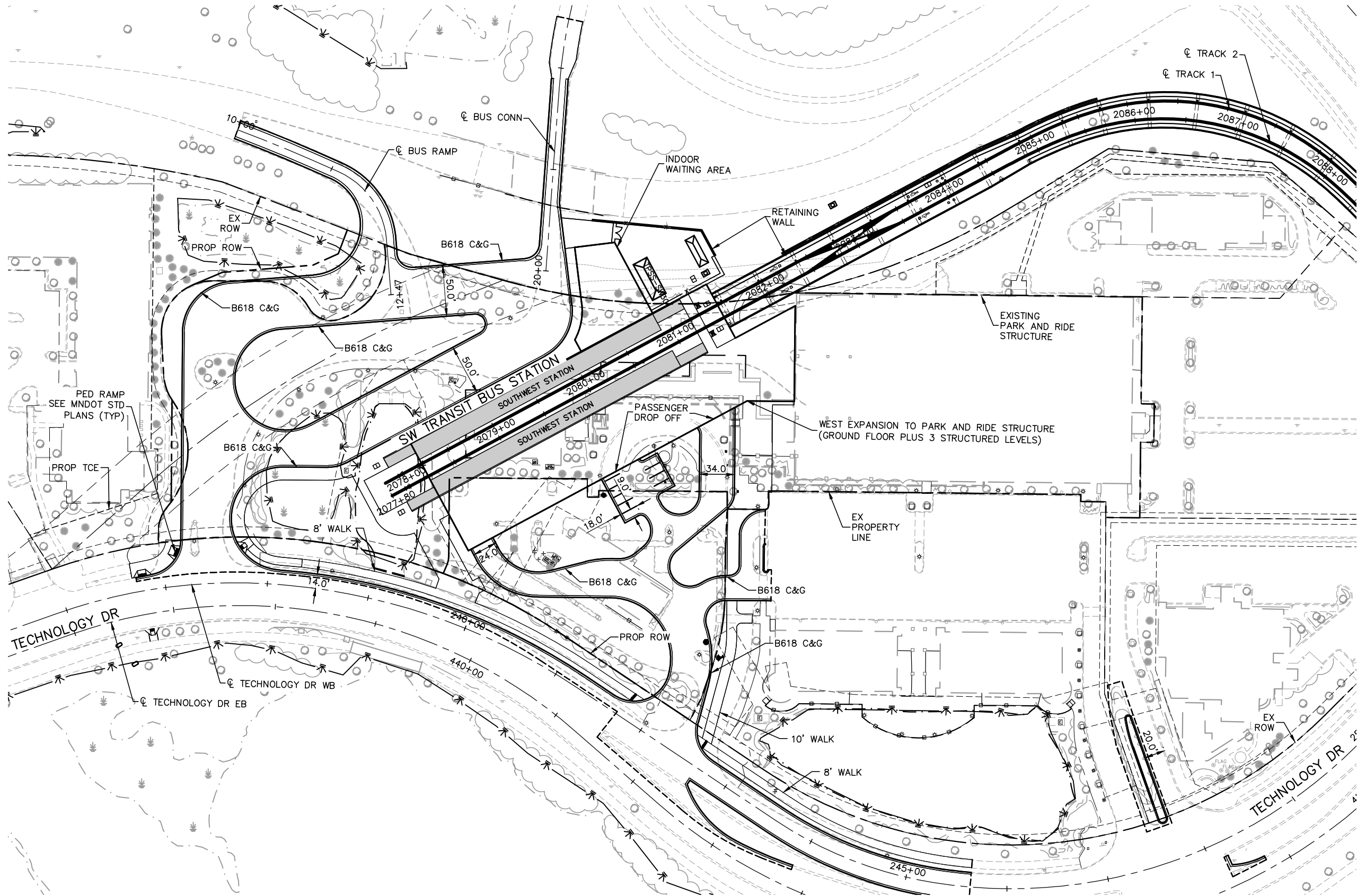
SHEET NAME: W3-CIV-TRL-012

SHEET 132 OF 140

60% SUBMISSION - 09/28/15

Sep. 22 2015 01:15 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PLN.dwg By: kmcdlement

NOTES:
450 PROVIDED PARKING STALLS



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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**METROPOLITAN**
COUNCIL

**SOUTHWEST**
Green Line LRT Extension

60% SUBMISSION - 09/28/15

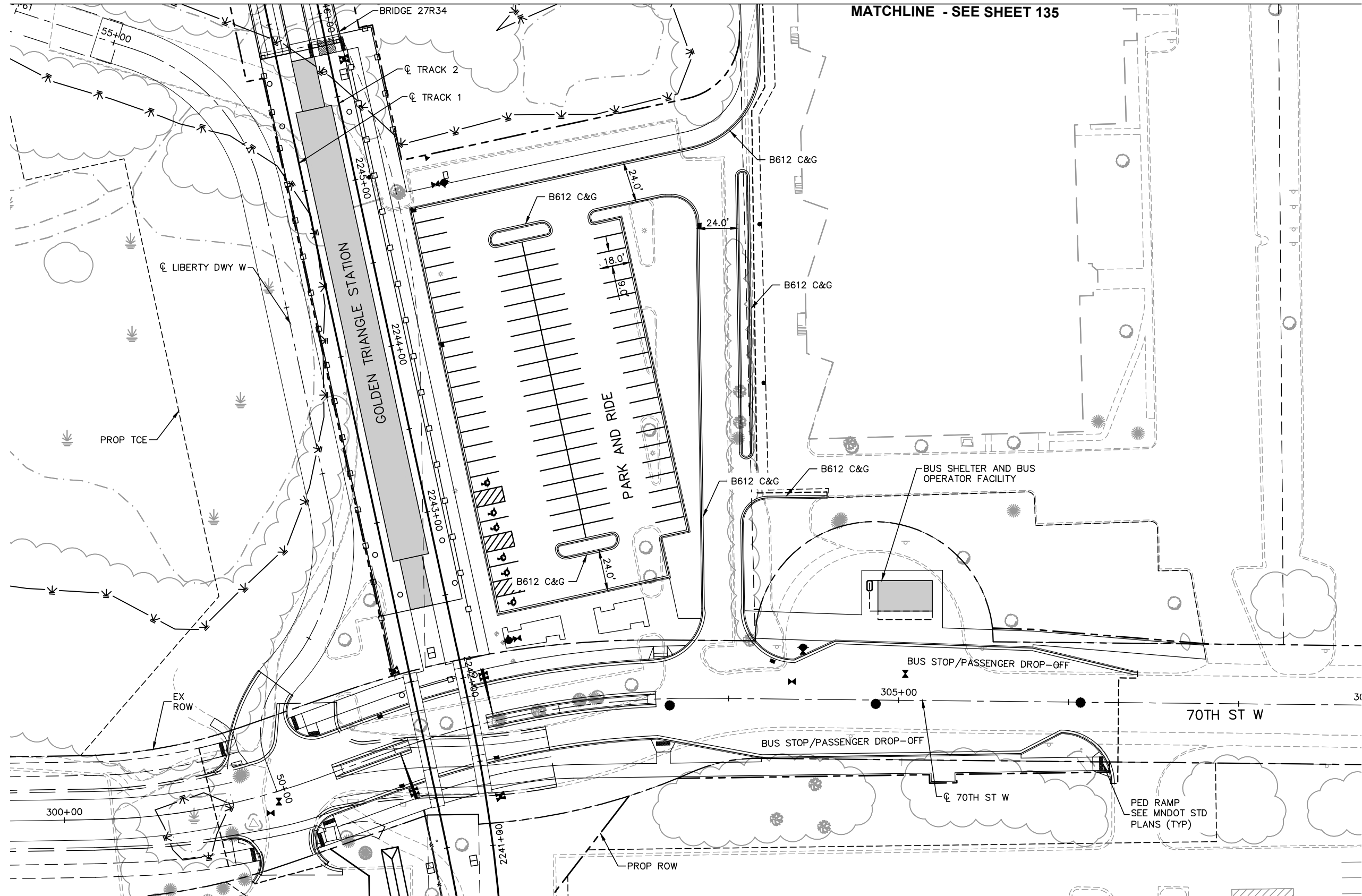
CIVIL WEST - VOLUME 2
SOUTHWEST STATION PARK AND RIDE
SITE PLAN

DISCIPLINE:
CIVIL

SHEET NAME:
W1-CIV-PLN-001

SHEET
133
OF
140

Sep. 22 2015 01:15 pm V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PLN.dwg By: kmcolement



NOTE:
200 PROVIDED PARKING STALLS
(TOTAL FOR BOTH LOTS)

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

AECOM

SRI
Consulting Group, Inc.

60% SUBMISSION - 09/28/15

**METROPOLITAN**
COUNCIL

**SOUTHWEST**
Green Line LRT Extension

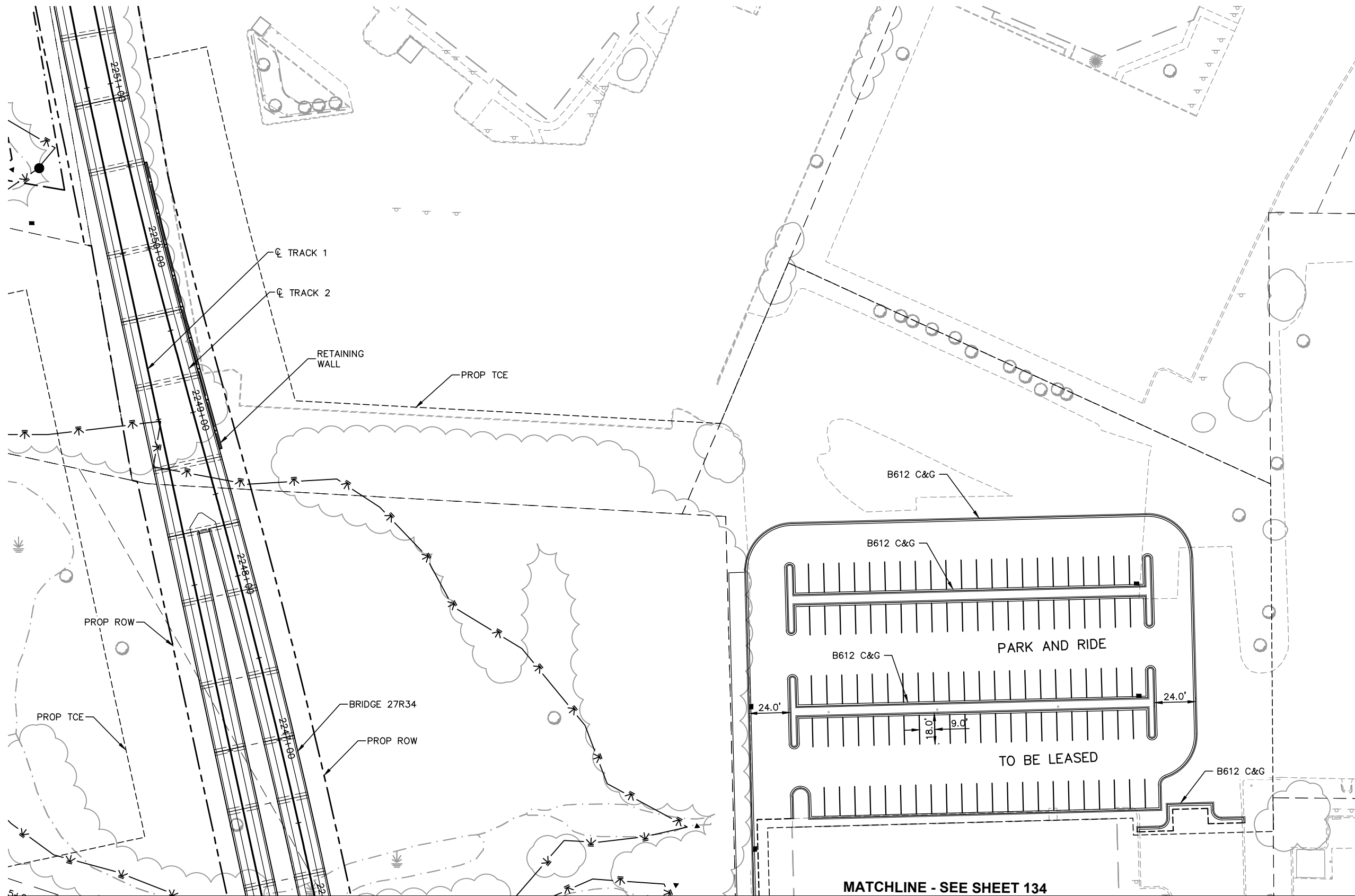
CIVIL WEST - VOLUME 2
GOLDEN TRIANGLE PARK AND RIDE
SITE PLAN
SHEET 1

DISCIPLINE: **CIVIL**

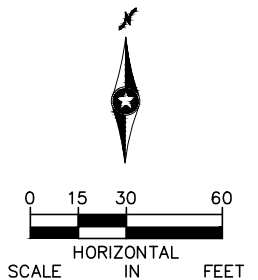
SHEET NAME: **W2-CIV-PLN-001**

SHEET
134
OF
140

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NOTE:
200 PROVIDED PARKING STALLS
(TOTAL FOR BOTH LOTS)



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

AECOM

SRI
Consulting Group, Inc.

**METROPOLITAN**
COUNCIL

**SOUTHWEST**
Green Line Light Extension

60% SUBMISSION - 09/28/15

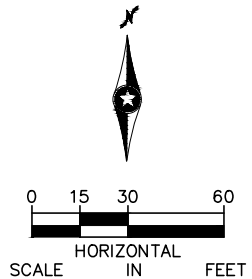
CIVIL WEST - VOLUME 2
GOLDEN TRIANGLE PARK AND RIDE
SITE PLAN
SHEET 2

DISCIPLINE: **CIVIL**

SHEET NAME: **W2-CIV-PLN-002**

SHEET
135
OF
140

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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Consulting Group, Inc.

METROPOLITAN
COUNCIL

SOUTHWEST
Green Line Light Extension

60% SUBMISSION - 09/28/15

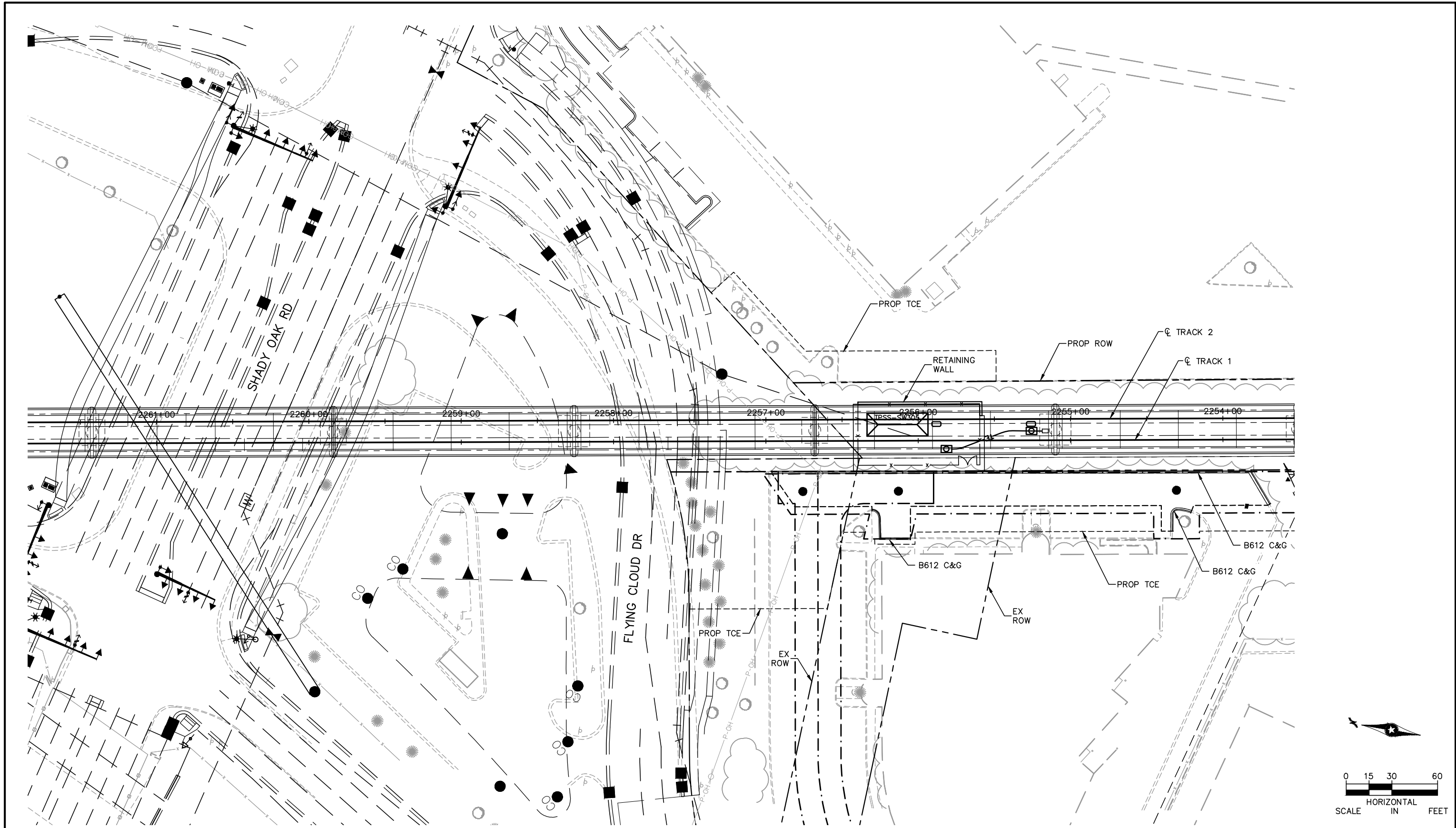
CIVIL WEST - VOLUME 2
VALLEY VIEW ROAD AND SHADY OAK ROAD
SITE PLAN

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-PLN-003

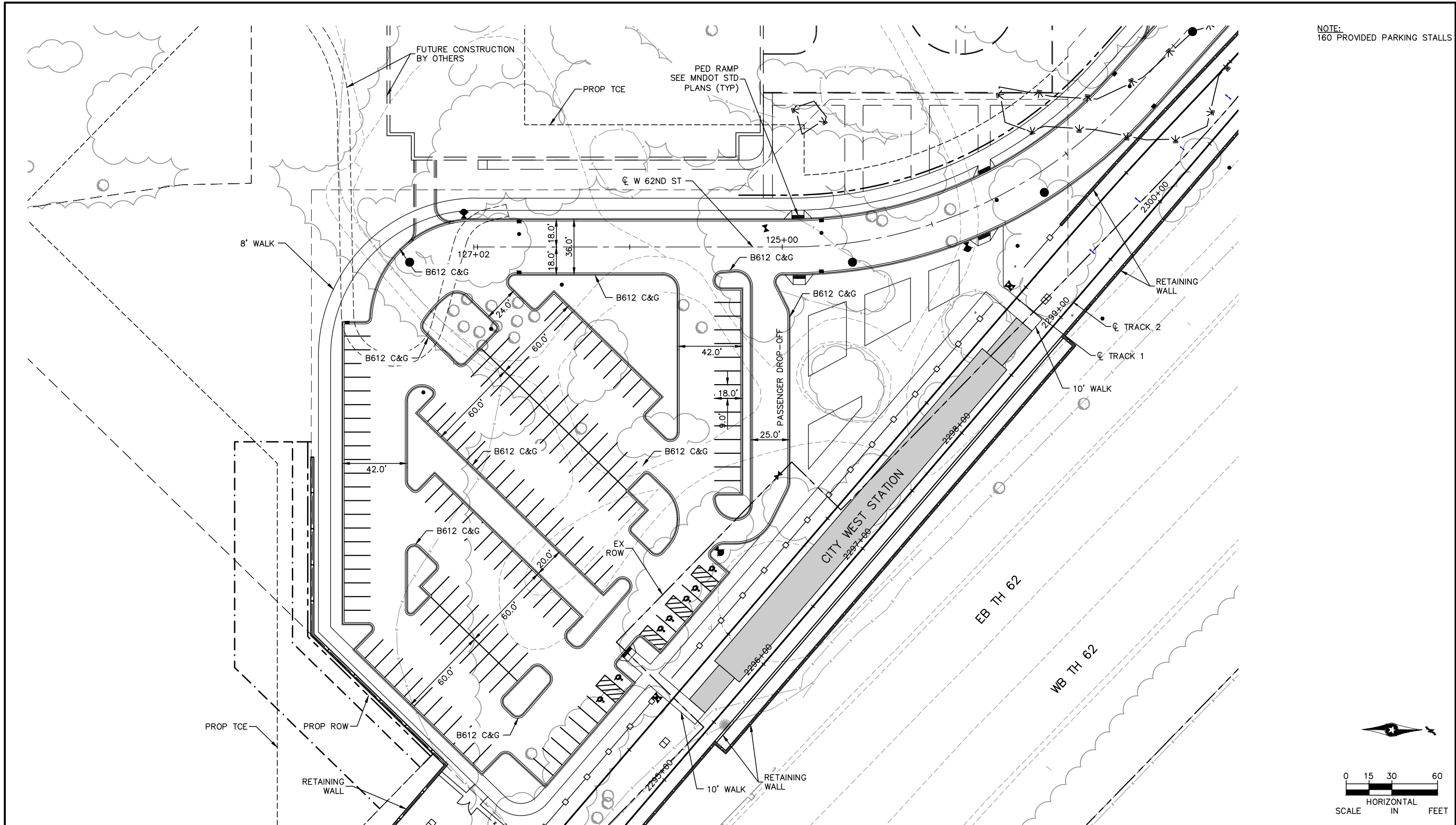
SHEET
136
OF
140

Sep. 22 2015 01:18 pm V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PLN.dwg By: kmcolement

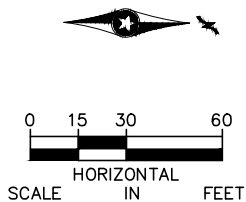


NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL		 	 	CIVIL WEST - VOLUME 2 SHADY OAK ROAD INTERCHANGE SITE PLAN		SHEET 137 OF 140
60% SUBMISSION - 09/28/15											
DISCIPLINE:			SHEET NAME:								
CIVIL			W2-CIV-PLN-004								

Sep. 22 2015 01:18 pm V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PLN.dwg By: kmcolement



NOTE:
160 PROVIDED PARKING STALLS



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15

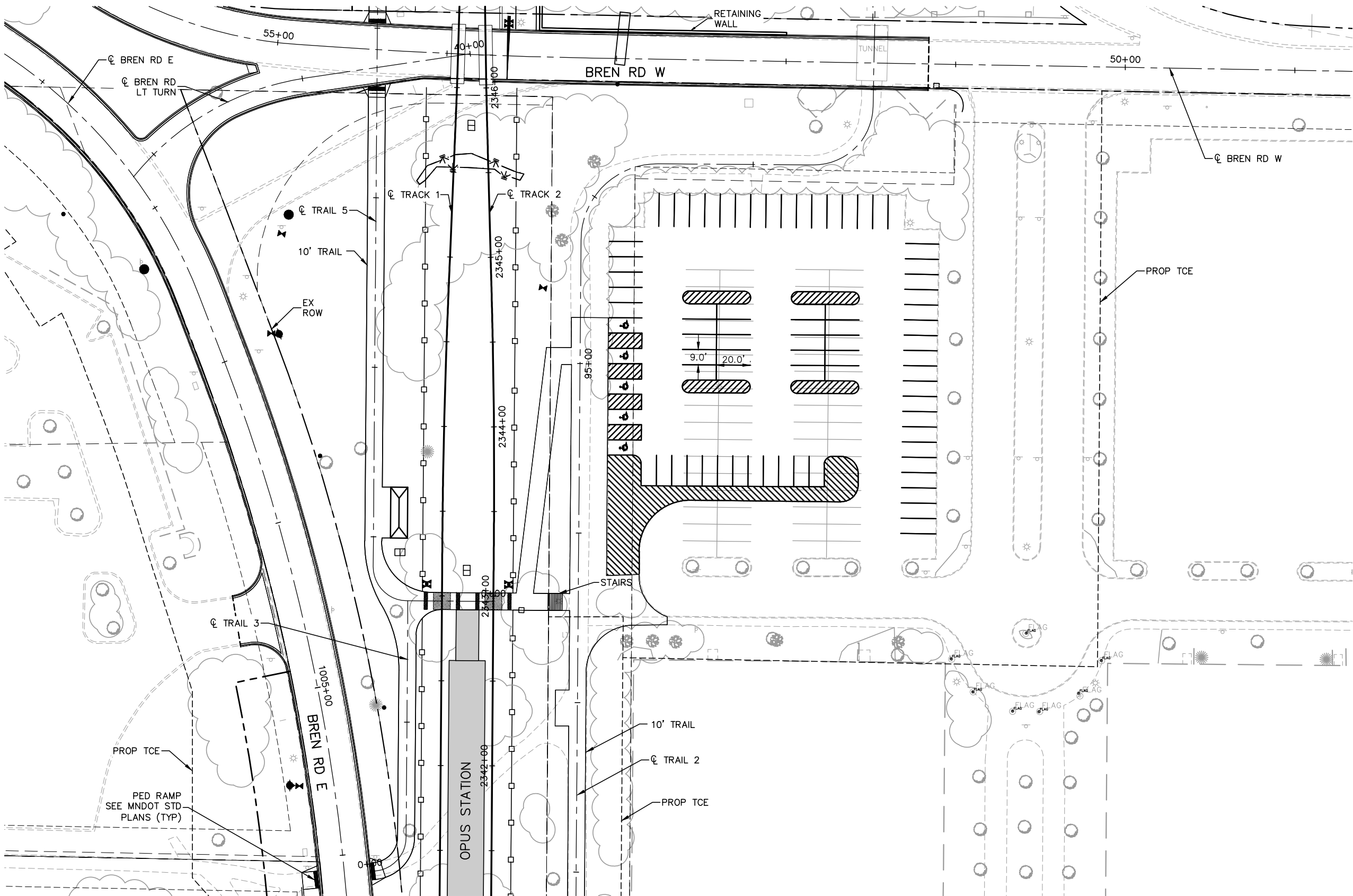
CIVIL WEST - VOLUME 2
CITY WEST STATION PARK AND RIDE
SITE PLAN

DISCIPLINE:
CIVIL

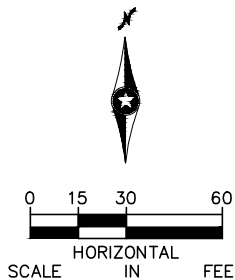
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SHEET
138
OF
140

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NOTE:
80 PROVIDED PARKING STALLS



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 2
OPUS STATION PARK AND RIDE
SITE PLAN

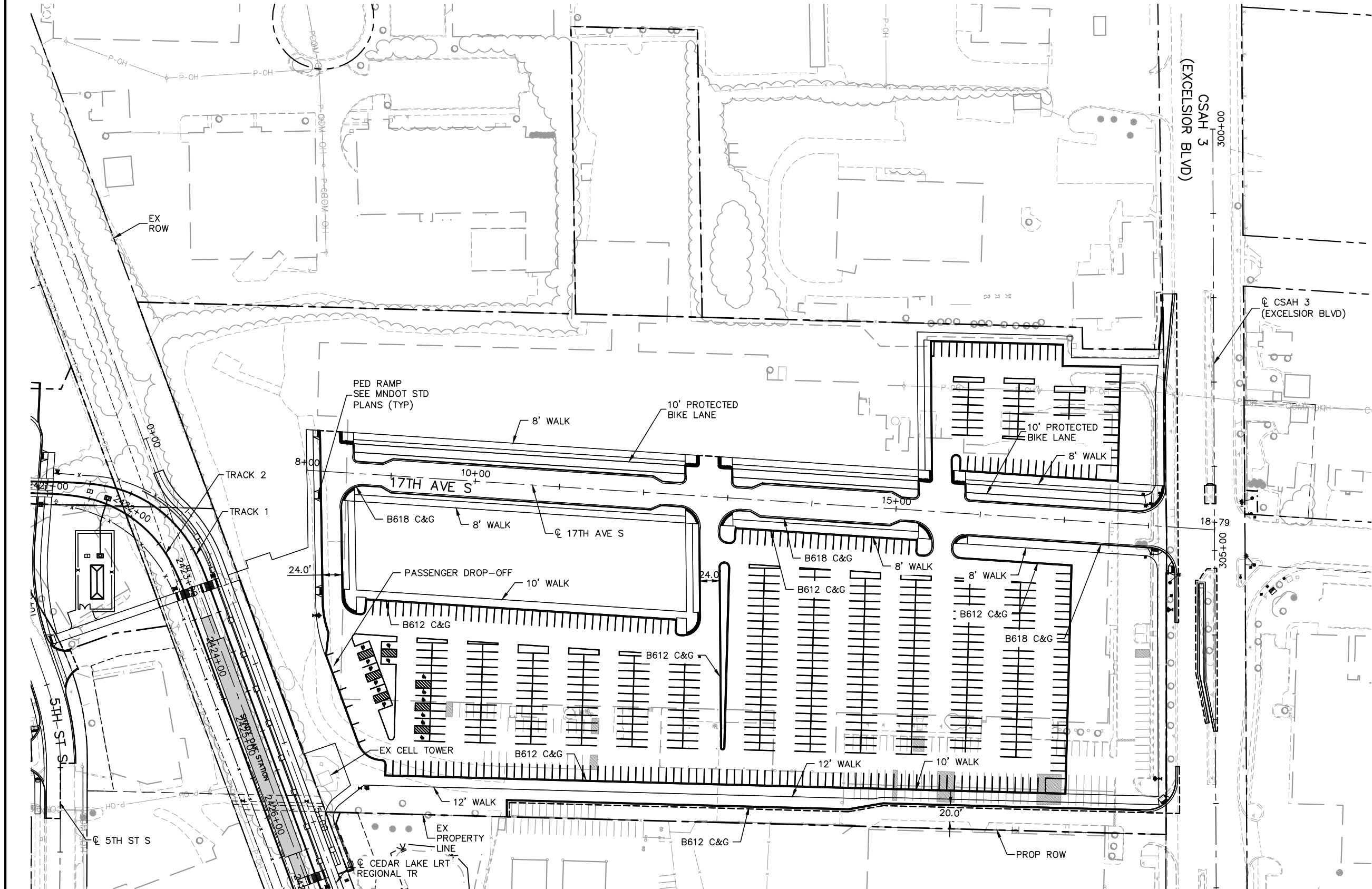
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SHEET 139 OF 140

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NOTE:
700 PROVIDED PARKING STALLS



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

SRI
Consulting Group, Inc.

**METROPOLITAN**
COUNCIL

**SOUTHWEST**
Green Line LRT Extension

60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 2
SHADY OAK STATION PARK AND RIDE
SITE PLAN

DISCIPLINE:
CIVIL

SHEET NAME:
W3-CIV-PLN-002

SHEET
140
OF
140