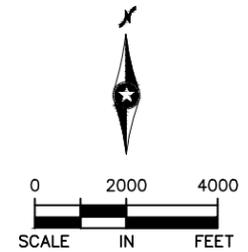
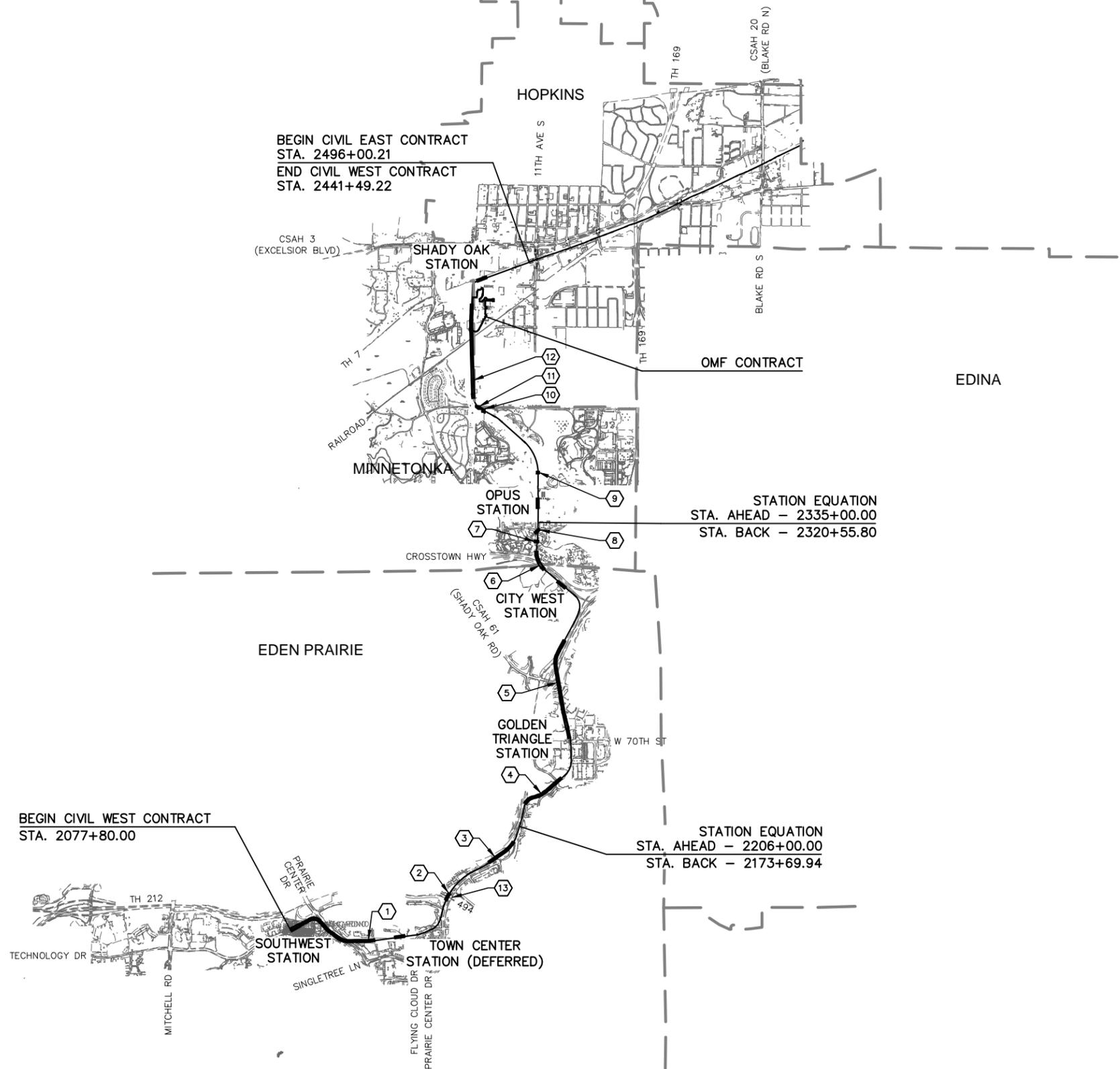


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CIVIL WEST						CIVIL WEST						CIVIL WEST					
SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV	SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV	SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV
VOLUME 3 - TRACKWORK						73	W2-TRK-TYP-037	TRACK TYPICAL SECTIONS				146	W2-TRK-PRF-001	TRACK PLAN AND PROFILE	2206+00	2213+00	
1	W0-TRK-CVR-001	COVER SHEET				74	W2-TRK-TYP-038	TRACK TYPICAL SECTIONS				147	W2-TRK-PRF-002	TRACK PLAN AND PROFILE	2213+00	2220+50	
2	W0-TRK-IDX-001	VOLUME INDEX OF PLAN SHEETS				75	W2-TRK-TYP-039	TRACK TYPICAL SECTIONS				148	W2-TRK-PRF-003	TRACK PLAN AND PROFILE	2220+50	2227+50	
3	W0-GEN-KEY-001	GENERAL KEY MAP				76	W3-TRK-TYP-001	TRACK TYPICAL SECTIONS				149	W2-TRK-PRF-004	TRACK PLAN AND PROFILE	2227+50	2234+50	
4	W0-GEN-NTS-001	GENERAL LEGEND AND ABBREVIATIONS SHEET 1				77	W3-TRK-TYP-002	TRACK TYPICAL SECTIONS				150	W2-TRK-PRF-005	TRACK PLAN AND PROFILE	2234+50	2240+50	
5	W0-GEN-NTS-002	GENERAL LEGEND AND ABBREVIATIONS SHEET 2				78	W3-TRK-TYP-003	TRACK TYPICAL SECTIONS				151	W2-TRK-PRF-006	TRACK PLAN AND PROFILE	2240+50	2247+50	
6	W0-TRK-NTS-001	TRACK TRACK NOTES				79	W3-TRK-TYP-004	TRACK TYPICAL SECTIONS				152	W2-TRK-PRF-007	TRACK PLAN AND PROFILE	2247+50	2254+50	
7	W1-TRK-TYP-001	TRACK TYPICAL SECTIONS				80	W3-TRK-TYP-005	TRACK TYPICAL SECTIONS				153	W2-TRK-PRF-008	TRACK PLAN AND PROFILE	2254+50	2261+50	
8	W1-TRK-TYP-002	TRACK TYPICAL SECTIONS				81	W3-TRK-TYP-006	TRACK TYPICAL SECTIONS				154	W2-TRK-PRF-009	TRACK PLAN AND PROFILE	2261+50	2268+50	
9	W1-TRK-TYP-003	TRACK TYPICAL SECTIONS				82	W3-TRK-TYP-007	TRACK TYPICAL SECTIONS				155	W2-TRK-PRF-010	TRACK PLAN AND PROFILE	2268+50	2275+50	
10	W1-TRK-TYP-004	TRACK TYPICAL SECTIONS				83	W3-TRK-TYP-008	TRACK TYPICAL SECTIONS				156	W2-TRK-PRF-011	TRACK PLAN AND PROFILE	2275+50	2282+50	
11	W1-TRK-TYP-005	TRACK TYPICAL SECTIONS				84	W3-TRK-TYP-009	TRACK TYPICAL SECTIONS				157	W2-TRK-PRF-012	TRACK PLAN AND PROFILE	2282+50	2289+50	
12	W1-TRK-TYP-006	TRACK TYPICAL SECTIONS				85	W3-TRK-TYP-010	TRACK TYPICAL SECTIONS				158	W2-TRK-PRF-013	TRACK PLAN AND PROFILE	2289+50	2295+50	
13	W1-TRK-TYP-007	TRACK TYPICAL SECTIONS				86	W3-TRK-TYP-011	TRACK TYPICAL SECTIONS				159	W2-TRK-PRF-014	TRACK PLAN AND PROFILE	2295+00	2302+00	
14	W1-TRK-TYP-008	TRACK TYPICAL SECTIONS				87	W3-TRK-TYP-012	TRACK TYPICAL SECTIONS				160	W2-TRK-PRF-014A	TRACK PLAN AND PROFILE	1299+00	1302+00	
15	W1-TRK-TYP-009	TRACK TYPICAL SECTIONS				88	W3-TRK-TYP-013	TRACK TYPICAL SECTIONS				161	W2-TRK-PRF-015	TRACK PLAN AND PROFILE	2302+00	2308+50	
16	W1-TRK-TYP-010	TRACK TYPICAL SECTIONS				89	W3-TRK-TYP-014	TRACK TYPICAL SECTIONS				162	W2-TRK-PRF-015A	TRACK PLAN AND PROFILE	1302+00	1308+50	
17	W1-TRK-TYP-011	TRACK TYPICAL SECTIONS				90	W3-TRK-TYP-015	TRACK TYPICAL SECTIONS				163	W2-TRK-PRF-016	TRACK PLAN AND PROFILE	2308+50	2315+00	
18	W1-TRK-TYP-012	TRACK TYPICAL SECTIONS				91	W3-TRK-TYP-016	TRACK TYPICAL SECTIONS				164	W2-TRK-PRF-016A	TRACK PLAN AND PROFILE	1308+50	1315+00	
19	W1-TRK-TYP-013	TRACK TYPICAL SECTIONS				92	W3-TRK-TYP-017	TRACK TYPICAL SECTIONS				165	W2-TRK-PRF-017	TRACK PLAN AND PROFILE	2315+00	2320+55.80	
20	W1-TRK-TYP-014	TRACK TYPICAL SECTIONS				93	W3-TRK-TYP-018	TRACK TYPICAL SECTIONS				166	W2-TRK-PRF-017A	TRACK PLAN AND PROFILE	1315+00	1316+00	
21	W1-TRK-TYP-015	TRACK TYPICAL SECTIONS				94	W3-TRK-TYP-019	TRACK TYPICAL SECTIONS				167	W3-TRK-PRF-001	TRACK PLAN AND PROFILE	2335+00	2339+50	
22	W1-TRK-TYP-016	TRACK TYPICAL SECTIONS				95	W3-TRK-TYP-020	TRACK TYPICAL SECTIONS				168	W3-TRK-PRF-002	TRACK PLAN AND PROFILE	2339+50	2345+50	
23	W1-TRK-TYP-017	TRACK TYPICAL SECTIONS				96	W3-TRK-TYP-021	TRACK TYPICAL SECTIONS				169	W3-TRK-PRF-003	TRACK PLAN AND PROFILE	2345+50	2352+50	
24	W1-TRK-TYP-018	TRACK TYPICAL SECTIONS				97	W3-TRK-TYP-022	TRACK TYPICAL SECTIONS				170	W3-TRK-PRF-004	TRACK PLAN AND PROFILE	2352+50	2359+50	
25	W1-TRK-TYP-019	TRACK TYPICAL SECTIONS				98	W3-TRK-TYP-023	TRACK TYPICAL SECTIONS				171	W3-TRK-PRF-005	TRACK PLAN AND PROFILE	2359+50	2366+50	
26	W1-TRK-TYP-020	TRACK TYPICAL SECTIONS				99	W3-TRK-TYP-024	TRACK TYPICAL SECTIONS				172	W3-TRK-PRF-006	TRACK PLAN AND PROFILE	2366+50	2373+50	
27	W1-TRK-TYP-021	TRACK TYPICAL SECTIONS				100	W3-TRK-TYP-025	TRACK TYPICAL SECTIONS				173	W3-TRK-PRF-007	TRACK PLAN AND PROFILE	2373+50	2378+50	
28	W1-TRK-TYP-022	TRACK TYPICAL SECTIONS				101	W3-TRK-TYP-026	TRACK TYPICAL SECTIONS				174	W3-TRK-PRF-008	TRACK PLAN AND PROFILE	2378+50	2384+50	
29	W1-TRK-TYP-023	TRACK TYPICAL SECTIONS				102	W3-TRK-TYP-027	TRACK TYPICAL SECTIONS				175	W3-TRK-PRF-009	TRACK PLAN AND PROFILE	2384+50	2391+00	
30	W1-TRK-TYP-024	TRACK TYPICAL SECTIONS				103	W3-TRK-TYP-028	TRACK TYPICAL SECTIONS				176	W3-TRK-PRF-010	TRACK PLAN AND PROFILE	2391+00	2397+50	
31	W1-TRK-TYP-025	TRACK TYPICAL SECTIONS				104	W3-TRK-TYP-029	TRACK TYPICAL SECTIONS				177	W3-TRK-PRF-011	TRACK PLAN AND PROFILE	2397+50	2404+00	
32	W1-TRK-TYP-026	TRACK TYPICAL SECTIONS				105	W3-TRK-TYP-030	TRACK TYPICAL SECTIONS				178	W3-TRK-PRF-012	TRACK PLAN AND PROFILE	2404+00	2410+50	
33	W1-TRK-TYP-027	TRACK TYPICAL SECTIONS				106	W3-TRK-TYP-031	TRACK TYPICAL SECTIONS				179	W3-TRK-PRF-013	TRACK PLAN AND PROFILE	2410+50	2417+00	
34	W1-TRK-TYP-028	TRACK TYPICAL SECTIONS				107	W3-TRK-TYP-032	TRACK TYPICAL SECTIONS				180	W3-TRK-PRF-014	TRACK PLAN AND PROFILE	2417+00	2422+00	
35	W1-TRK-TYP-029	TRACK TYPICAL SECTIONS				108	W3-TRK-TYP-033	TRACK TYPICAL SECTIONS				181	W3-TRK-PRF-015	TRACK PLAN AND PROFILE	2422+00	2428+50	
36	W1-TRK-TYP-030	TRACK TYPICAL SECTIONS				109	W3-TRK-TYP-034	TRACK TYPICAL SECTIONS				182	W3-TRK-PRF-016	TRACK PLAN AND PROFILE	2428+50	2435+50	
37	W2-TRK-TYP-001	TRACK TYPICAL SECTIONS				110	W3-TRK-TYP-035	TRACK TYPICAL SECTIONS				183	W3-TRK-PRF-017	TRACK PLAN AND PROFILE	2435+50	2441+49.22	
38	W2-TRK-TYP-002	TRACK TYPICAL SECTIONS				111	W3-TRK-TYP-036	TRACK TYPICAL SECTIONS				184	W0-TRK-DTL-001	TRACK DETAILS TYPICAL SECTIONS INSETS			
39	W2-TRK-TYP-003	TRACK TYPICAL SECTIONS				112	W3-TRK-TYP-037	TRACK TYPICAL SECTIONS				185	W0-TRK-DTL-002	TRACK DETAILS TYPICAL SECTIONS INSETS			
40	W2-TRK-TYP-004	TRACK TYPICAL SECTIONS				113	W3-TRK-TYP-038	TRACK TYPICAL SECTIONS				186	W0-TRK-DTL-010	TRACK DETAILS SIMPLE CURVE DIAGRAM			
41	W2-TRK-TYP-005	TRACK TYPICAL SECTIONS				114	W3-TRK-TYP-039	TRACK TYPICAL SECTIONS				187	W0-TRK-DTL-011	TRACK DETAILS SPIRAL CURVE DIAGRAMS			
42	W2-TRK-TYP-006	TRACK TYPICAL SECTIONS				115	W3-TRK-TYP-040	TRACK TYPICAL SECTIONS				188	W0-TRK-DTL-012	TRACK DETAILS COMPOUND CURVE WITH SPIRALS			
43	W2-TRK-TYP-007	TRACK TYPICAL SECTIONS				116	W3-TRK-TYP-041	TRACK TYPICAL SECTIONS				189	W0-TRK-DTL-013	TRACK DETAILS VERTICAL CURVE GEOMETRY			
44	W2-TRK-TYP-008	TRACK TYPICAL SECTIONS				117	W3-TRK-TYP-042	TRACK TYPICAL SECTIONS									
45	W2-TRK-TYP-009	TRACK TYPICAL SECTIONS				118	W3-TRK-TYP-043	TRACK TYPICAL SECTIONS									
46	W2-TRK-TYP-010	TRACK TYPICAL SECTIONS				119	W3-TRK-TYP-044	TRACK TYPICAL SECTIONS									
47	W2-TRK-TYP-011	TRACK TYPICAL SECTIONS				120	W3-TRK-TYP-045	TRACK TYPICAL SECTIONS									
48	W2-TRK-TYP-012	TRACK TYPICAL SECTIONS				121	W3-TRK-TYP-046	TRACK TYPICAL SECTIONS									
49	W2-TRK-TYP-013	TRACK TYPICAL SECTIONS				122	W3-TRK-TYP-047	TRACK TYPICAL SECTIONS									
50	W2-TRK-TYP-014	TRACK TYPICAL SECTIONS				123	W3-TRK-TYP-048	TRACK TYPICAL SECTIONS									
51	W2-TRK-TYP-015	TRACK TYPICAL SECTIONS				124	W3-TRK-TYP-049	TRACK TYPICAL SECTIONS									
52	W2-TRK-TYP-016	TRACK TYPICAL SECTIONS				125	W3-TRK-TYP-050	TRACK TYPICAL SECTIONS									
53	W2-TRK-TYP-017	TRACK TYPICAL SECTIONS				126	W3-TRK-TYP-051	TRACK TYPICAL SECTIONS									
54	W2-TRK-TYP-018	TRACK TYPICAL SECTIONS				127	W1-TRK-LAY-001	TRACK PLAN SHEET LAYOUT SHEET 1									
55	W2-TRK-TYP-019	TRACK TYPICAL SECTIONS				128	W2-TRK-LAY-001	TRACK PLAN SHEET LAYOUT SHEET 2									
56	W2-TRK-TYP-020	TRACK TYPICAL SECTIONS				129	W3-TRK-LAY-001	TRACK PLAN SHEET LAYOUT SHEET 3									
57	W2-TRK-TYP-021	TRACK TYPICAL SECTIONS				130	W1-TRK-PRF-001	TRACK PLAN AND PROFILE	2077+80	2084+00							
58	W2-TRK-TYP-022	TRACK TYPICAL SECTIONS				131	W1-TRK-PRF-002	TRACK PLAN AND PROFILE	2084+00	2089+50							
59	W2-TRK-TYP-023	TRACK TYPICAL SECTIONS				132	W1-TRK-PRF-003	TRACK PLAN AND PROFILE	2089+50	2096+00							
60	W2-TRK-TYP-024	TRACK TYPICAL SECTIONS				133	W1-TRK-PRF-004	TRACK PLAN AND PROFILE	2096+00	2103+00							
61	W2-TRK-TYP-025	TRACK TYPICAL SECTIONS				134	W1-TRK-PRF-005	TRACK PLAN AND PROFILE	2103+00	2109+50							
62	W2-TRK-TYP-026	TRACK TYPICAL SECTIONS				135	W1-TRK-PRF-006	TRACK PLAN AND PROFILE	2109+50	2114+00							
63	W2-TRK-TYP-027	TRACK TYPICAL SECTIONS				136	W1-TRK-PRF-007	TRACK PLAN AND PROFILE	2114+00	2120+50							
64	W2-TRK-TYP-028	TRACK TYPICAL SECTIONS				137	W1-TRK-PRF-008	TRACK PLAN AND PROFILE	2120+50	2126+50							
65	W2-TRK-TYP-029	TRACK TYPICAL SECTIONS				138	W1-TRK-PRF-009	TRACK PLAN AND PROFILE	2126+50	2133+50							
66	W2-TRK-TYP-030	TRACK TYPICAL SECTIONS				139	W1-TRK-PRF-010	TRACK PLAN AND PROFILE	2133+50	2140+50							
67	W2-TRK-TYP-031	TRACK TYPICAL SECTIONS				140	W1-TRK-PRF-011	TRACK PLAN AND PROFILE	2140+50	2147+50							
68	W2-TRK-TYP-032	TRACK TYPICAL SECTIONS				141	W1-TRK-PRF-012	TRACK PLAN AND PROFILE	2147+50	2154+50							
69	W2-TRK-TYP-033	TRACK TYPICAL SECTIONS				142	W1-TRK-PRF-013	TRACK PLAN AND PROFILE	2154+50	2161+00							
70	W2-TRK-TYP-034	TRACK TYPICAL SECTIONS				143	W1-TRK-PRF-014	TRACK PLAN AND PROFILE	2161+00	2165+50							
71	W2-TRK-TYP-035	TRACK TYPICAL SECTIONS				144	W1-TRK-PRF-015	TRACK PLAN AND PROFILE	2165+50	2169+50							
72	W2-TRK-TYP-036	TRACK TYPICAL SECTIONS															

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REF	BRIDGE DESCRIPTION	BRIDGE NUMBER
①	PRAIRIE CENTER DRIVE BRIDGE	27C06
②	I-494 BRIDGE	27W32
③	VALLEY VIEW RD BRIDGE	27R33
④	NINE MILE CREEK BRIDGE	27C07
⑤	TH 212 / SHADY OAK ROAD BRIDGE	27R34
⑥	HWY 62 TUNNEL	27W33
⑦	PEDESTRIAN UNDERPASS #2	27J63
⑧	PEDESTRIAN UNDERPASS #1	27J62
⑨	PEDESTRIAN UNDERPASS #5	R0715
⑩	FELTL ROAD BRIDGE	27C08
⑪	SMETANA ROAD BRIDGE	27C09
⑫	MINNETONKA / HOPKINS LRT BRIDGE	R0686
⑬	FLYING CLOUD DRIVE BRIDGE MODIFICATIONS	27762 BA

BA - BID ALTERNATE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
GENERAL KEY MAP

DISCIPLINE: **GENERAL** SHEET NAME: **WO-GEN-KEY - 001**

SHEET
3
OF
189

TRACK LINETYPES

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

CIVIL LINETYPES

- ROADWAY CL
- TRACK CL (LRT)
- TRACK CL (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

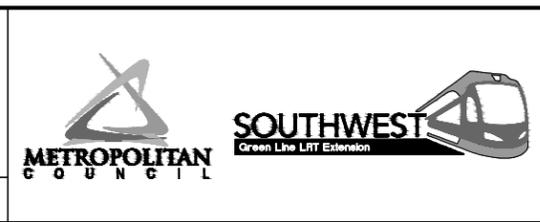
1. THE HORIZONTAL DATUM OF THIS MAP IS BASED ON THE HENNEPIN COUNTY COORDINATE SYSTEM WHICH IS RELATED TO THE MINNESOTA STATE PLANE COORDINATE SYSTEM NAD 83 (2007) ADJUSTMENT SOUTH ZONE.
2. THE PLANIMETRIC FEATURES SHOWN ON THIS MAP ARE AS PREPARED BY AERO-METRIC, INC. FROM AERIAL DATA AND IMAGERY COLLECTED IN APRIL 2012, AS SUPPLEMENTED BY FIELD SURVEYS COMPLETED BY RANI ENGINEERING.
3. 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.
4. VERTICAL POSITIONAL ACCURACY: USING THE NATIONAL STANDARD FOR SPATIAL DATA ACCURACY, THE DATA SET TESTED 0.10 FEET VERTICAL ACCURACY AT 95% CONFIDENCE LEVEL.

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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15



**CIVIL WEST - VOLUME 3
GENERAL
LEGEND AND ABBREVIATIONS
SHEET 1**

DISCIPLINE: GENERAL SHEET NAME: W0-GEN-NTS - 001

**SHEET
4
OF
189**

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
E _a	ACTUAL SUPERELEVATION (INCHES)
EB	EAST BOUND
EL or ELEV	ELEVATION
EP	END POINT
ESMT	EASEMENT
E _u	UNBALANCED SUPERELEVATION (INCHES)
EVCE	ENDING VERTICAL CURVE ELEVATION
EVCS	ENDING VERTICAL CURVE STATION
EX	EXISTING
HCRRA	HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY
LH	LEFT HAND
LN	LANE
LRT	LIGHT RAIL TRANSIT
L _c	CURVE LENGTH (FEET)
L _s	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 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

Sep. 21 2015 06:51 am V:\3400_ADC\CAD\CAD MANAGEMENT\DRAWING LIST\W0-GEN-NTS.dwg By: V-KriewdMR

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**CIVIL WEST - VOLUME 3
GENERAL
LEGEND AND ABBREVIATIONS
SHEET 2**

DISCIPLINE: **GENERAL** SHEET NAME: **W0-GEN-NTS - 002**

**SHEET
5
OF
189**

TRACK GENERAL NOTES

1. THE EASTBOUND (EB) TRACK IS THE RIGHT TRACK AND IS USED FOR HORIZONTAL ALIGNMENT CONTROL FOR THE PROJECT. THIS TRACK ALIGNMENT IS REFERENCED AS TRACK 2. PROFILE AND CROSS SECTION STATIONING FOR THIS PROJECT ARE BASED ON STATIONS ESTABLISHED FOR THE TRACK 2 CENTER LINE. TRACK 2 STATION EQUATIONS OCCUR AT SEGMENT LIMITS AND AT THE CIVIL WEST/CIVIL EAST MATCH POINT.
2. THE WESTBOUND (WB) TRACK IS THE LEFT TRACK AND HAS A SEPARATELY DEFINED GEOMETRY WITH STATION EQUALITIES, TO THE TRACK 2 CENTER LINE, AT SPIRAL-TO-TANGENT (ST) POINTS. THIS TRACK ALIGNMENT IS REFERENCED AS TRACK 1.
3. TRACK CENTER DISTANCES ARE MEASURED PERPENDICULAR TO THE TRACK 2 CENTER LINE AND ARE LABELED AT ENDS OF DOUBLE TANGENT TRACKS, AT THE MAXIMUM TRACK SPACING IN HORIZONTAL CURVES, AND AT SELECT CARDINAL POINTS IN TRACK WIDENING AND NARROWING SEGMENTS.
4. SUPERELEVATION IS ATTAINED (AND REMOVED) LINEARLY THROUGH THE FULL LENGTH OF THE SPIRAL TRANSITION CURVES BY MAINTAINING TOP OF INSIDE (LOW) RAIL AT PROFILE GRADE AND BY RAISING (AND LOWERING) OUTSIDE RAIL AN AMOUNT EQUAL TO THE ACTUAL SUPERELEVATION (E_o).
5. OCS POLES ARE NOT IN CONTRACT (NIC) AND ARE SHOWN FOR REFERENCE ONLY.
6. TRACK PLANS AND TYPICAL SECTIONS INCLUDE ELEMENTS SUCH AS, BUT NOT LIMITED TO, FENCING, TRAILS, BRIDGES, RETAINING WALLS, TUNNELS, ROADWAYS, DRAINAGE, STATIONS AND SYSTEMS. DETAILS FOR THESE ITEMS ARE INCLUDED IN THEIR RESPECTIVE VOLUMES.
7. WORK IN AREAS PARALLEL TO ACTIVE FREIGHT RAILROAD SHALL MAINTAIN SAFE WORKING DISTANCES FROM ACTIVE FREIGHT TRACK. IF SAFE WORKING DISTANCES ARE NOT POSSIBLE, WORK SHALL BE DONE WITH THE FULL KNOWLEDGE AND APPROVAL OF THE OPERATING RAILROAD AND UTILIZE AN OPERATING RAILROAD FLAGMAN AS REQUIRED. REFER TO THE CONTRACT SPECIFICATIONS REGARDING RESTRICTIONS FOR PERFORMANCE WORK NEAR ACTIVE RAIL LINES.

Sep. 21 2015 01:41 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W0-TRK-NTS.dwg By: MaurisBM

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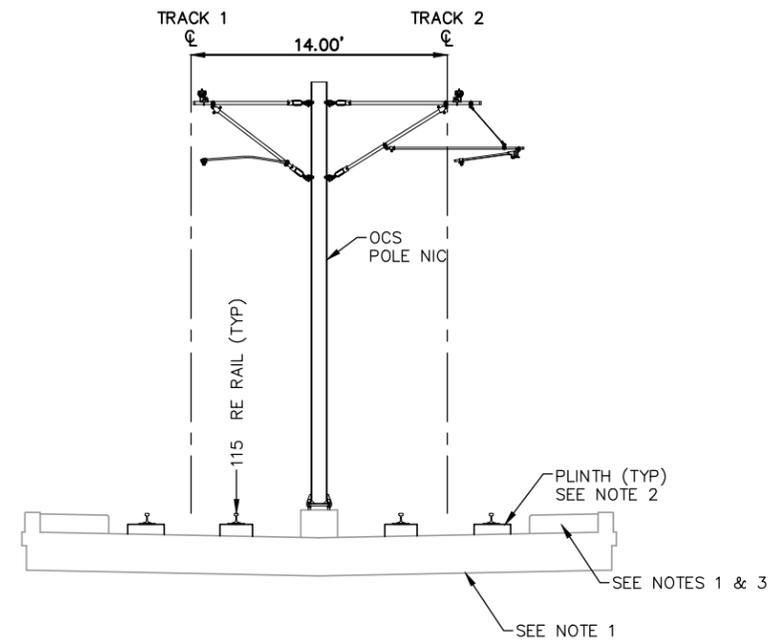
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**CIVIL WEST - VOLUME 3
TRACK
TRACK NOTES**

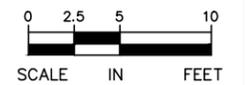
DISCIPLINE: **TRACK** SHEET NAME: **W0-TRK-NTS-001**

SHEET
6
OF
189

- NOTES:**
1. SEE STATION PLANS FOR DETAILS.
 2. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2077+80.00 TO 2078+20.00



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METROPOLITAN COUNCIL

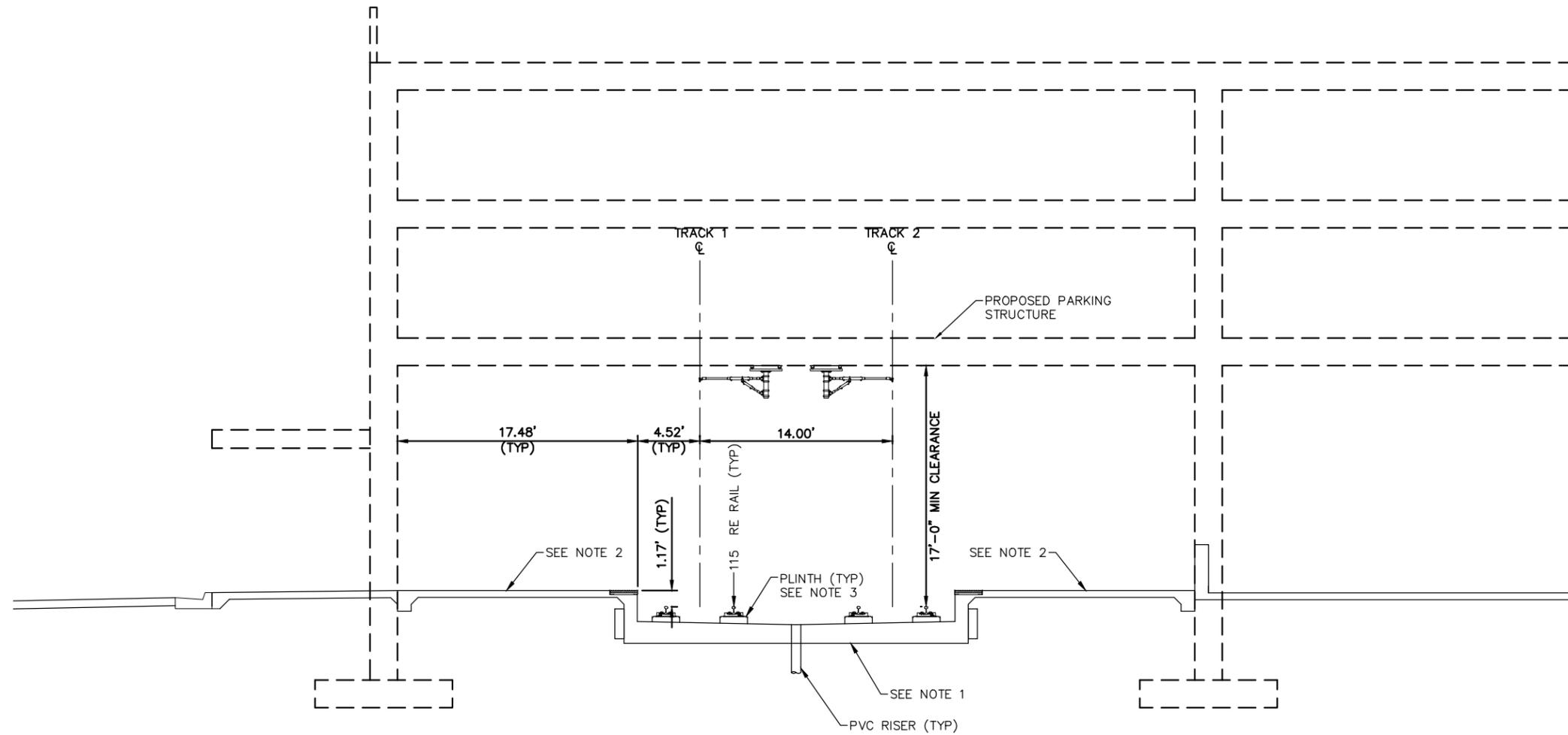
SOUTHWEST
Green Line Light Extension

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

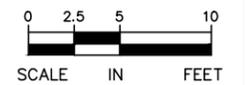
DISCIPLINE: **TRACK** SHEET NAME: **W1-TRK-TYP - 001**

SHEET
7
OF
189

- NOTES:**
1. SEE STATION PLANS FOR DETAILS.
 2. SEE STATION PLANS FOR STATION PLATFORM DETAILS.
 3. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION - SOUTHWEST STATION
 STA. 2078+20.00 TO 2080+90.00



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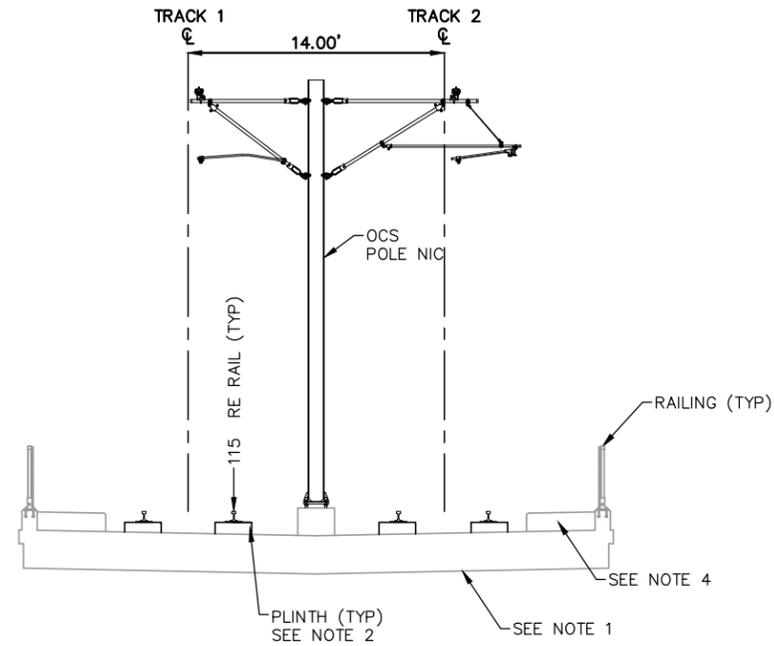


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

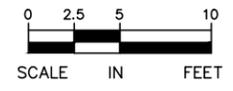
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 002

**SHEET
 8
 OF
 189**

- NOTES:**
1. MN/DOT BRIDGE CBR27C06. SEE STRUCTURAL PLANS.
 2. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 3. SPECIAL TRACKWORK NOT ILLUSTRATED.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2080+90.00 TO 2082+30.00



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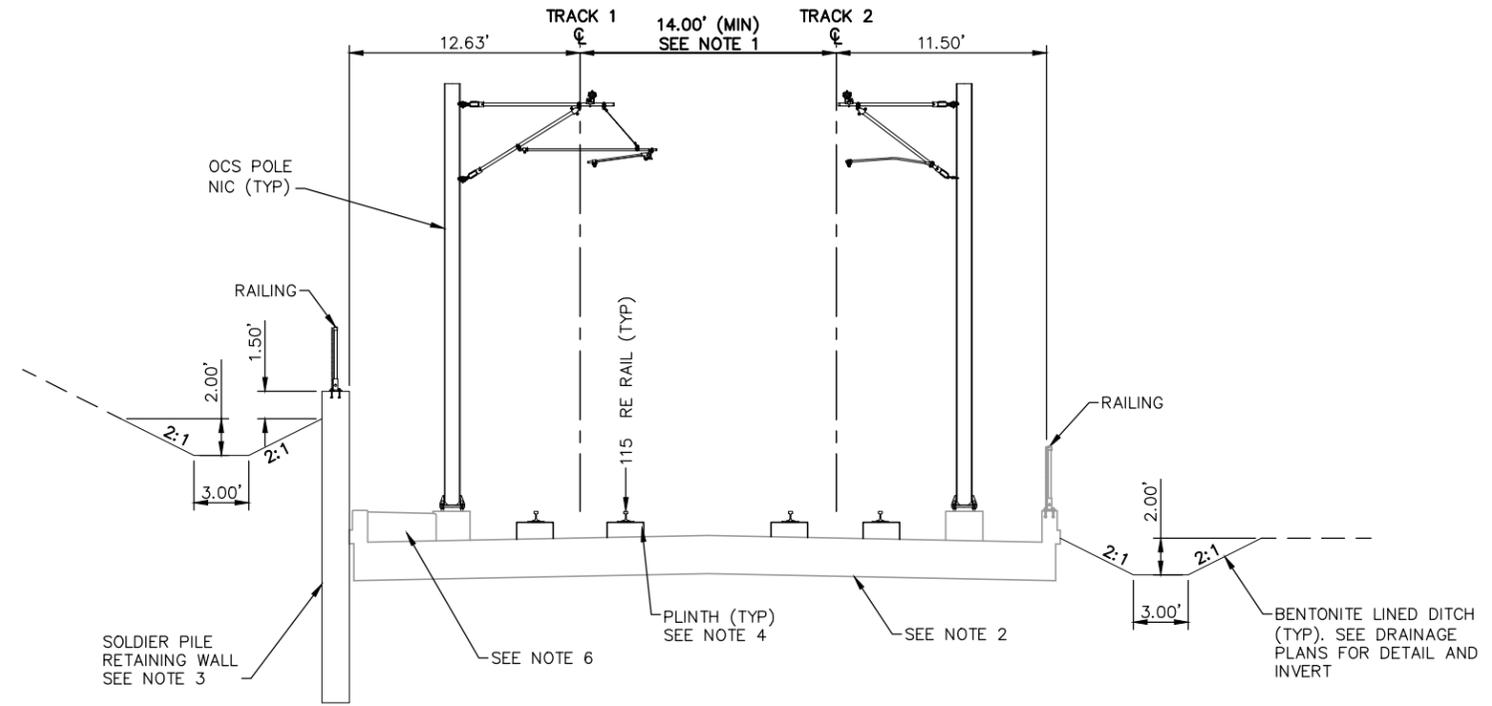
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

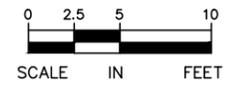
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 003

SHEET
 9
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-201. SEE TRACK PLANS.
 2. Mn/DOT BRIDGE CBR27C06. SEE STRUCTURAL PLANS.
 3. SEE RETAINING WALL PLANS FOR DETAILS.
 4. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 5. SPECIAL TRACKWORK NOT ILLUSTRATED.
 6. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
STA. 2082+30.00 TO 2085+68.44



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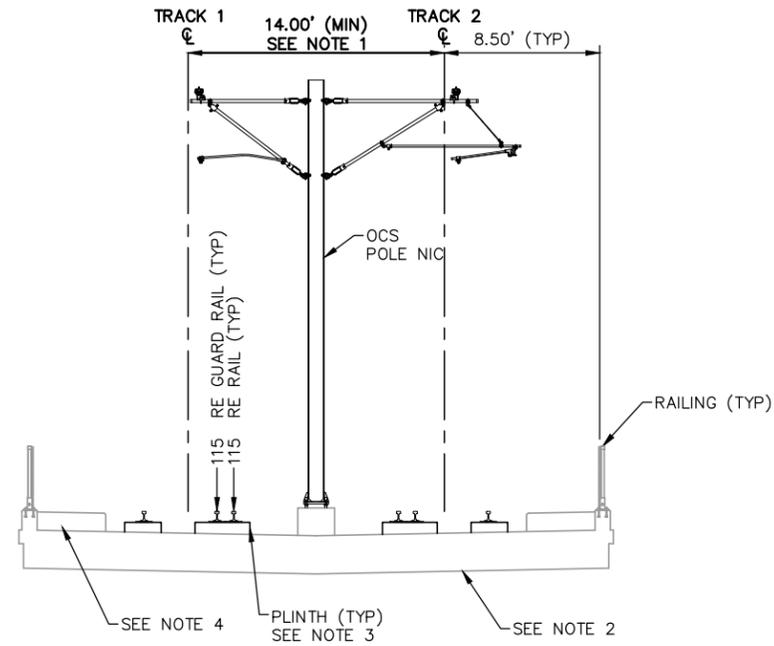


**CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS**

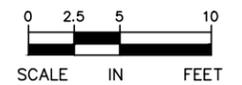
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 004

SHEET
10
OF
189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-201. SEE TRACK PLANS.
 2. Mn/DOT BRIDGE CBR27C06. SEE STRUCTURAL PLANS.
 3. SEE TRACK DETAILS FOR PLINTH DETAILS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2085+68.44 TO 2088+84.14



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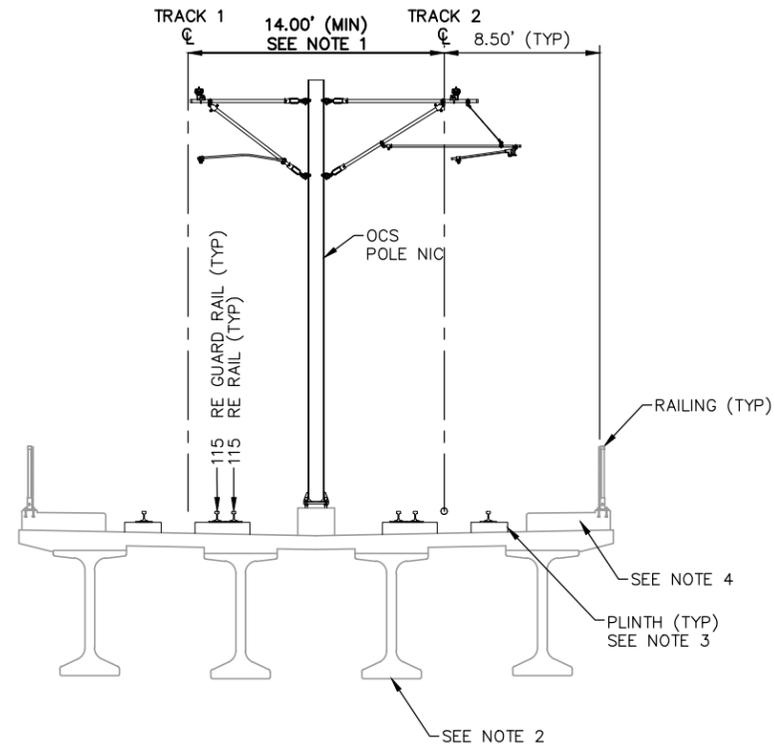
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

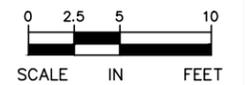
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 005

SHEET
 11
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVES W1-201 AND W1-202. SEE TRACK PLANS.
 2. Mn/DOT BRIDGE CBR27C06. SEE STRUCTURAL PLANS.
 3. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2088+84.14 TO 2102+36.14



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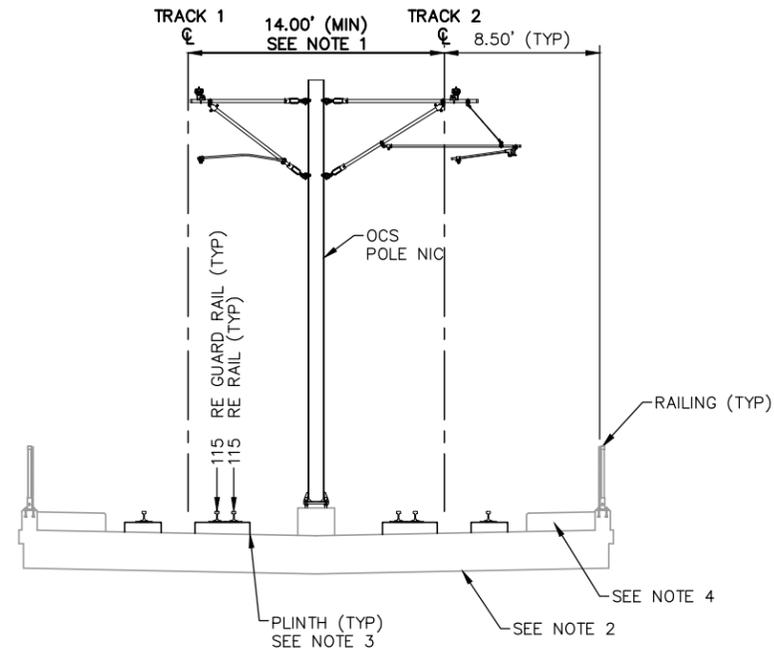
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**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

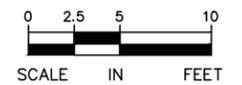
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 006

SHEET
 12
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-203. SEE TRACK PLANS.
 2. Mn/DOT BRIDGE CBR27C06. SEE STRUCTURAL PLANS.
 3. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2102+36.14 TO 2108+37.14



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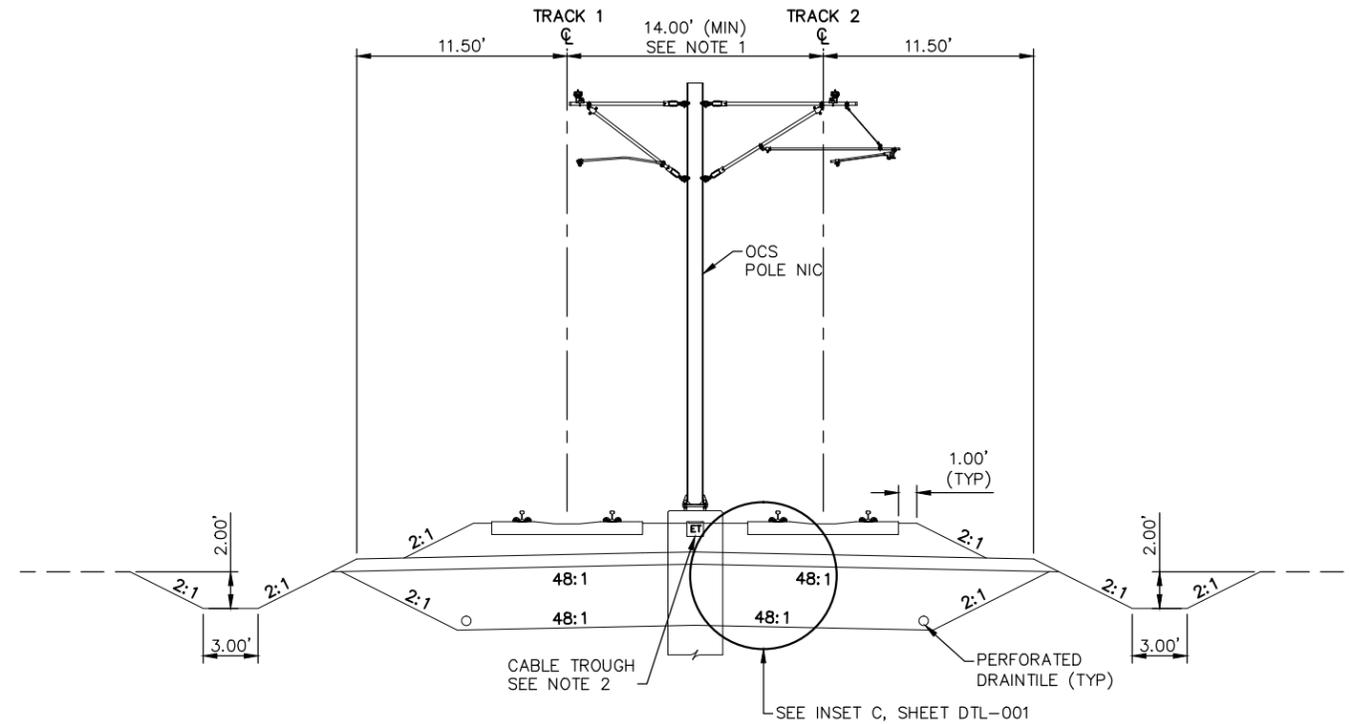


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

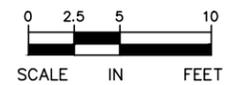
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 007

**SHEET
 13
 OF
 189**

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-203. SEE TRACK PLANS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2108+37.14 TO 2110+52.24



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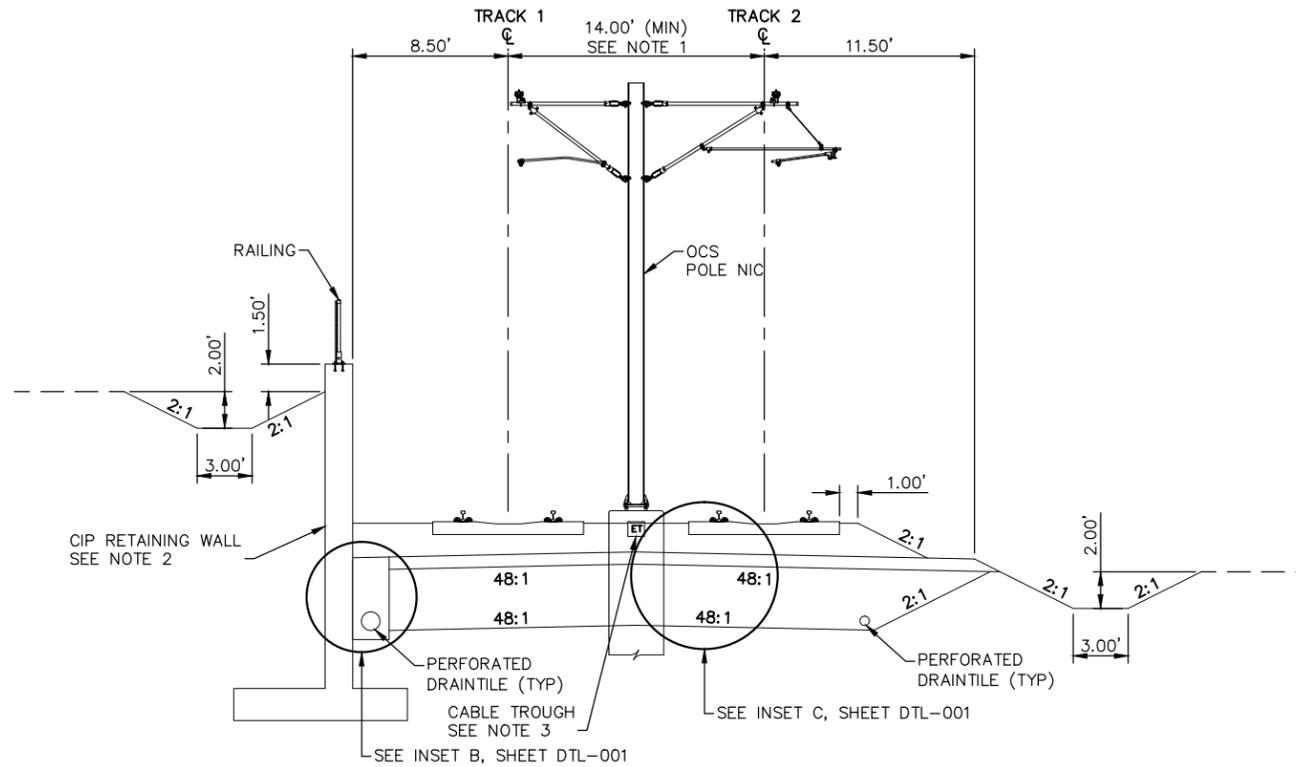
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

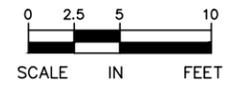
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 008

SHEET
 14
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-104. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2110+52.24 TO 2112+07.79



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

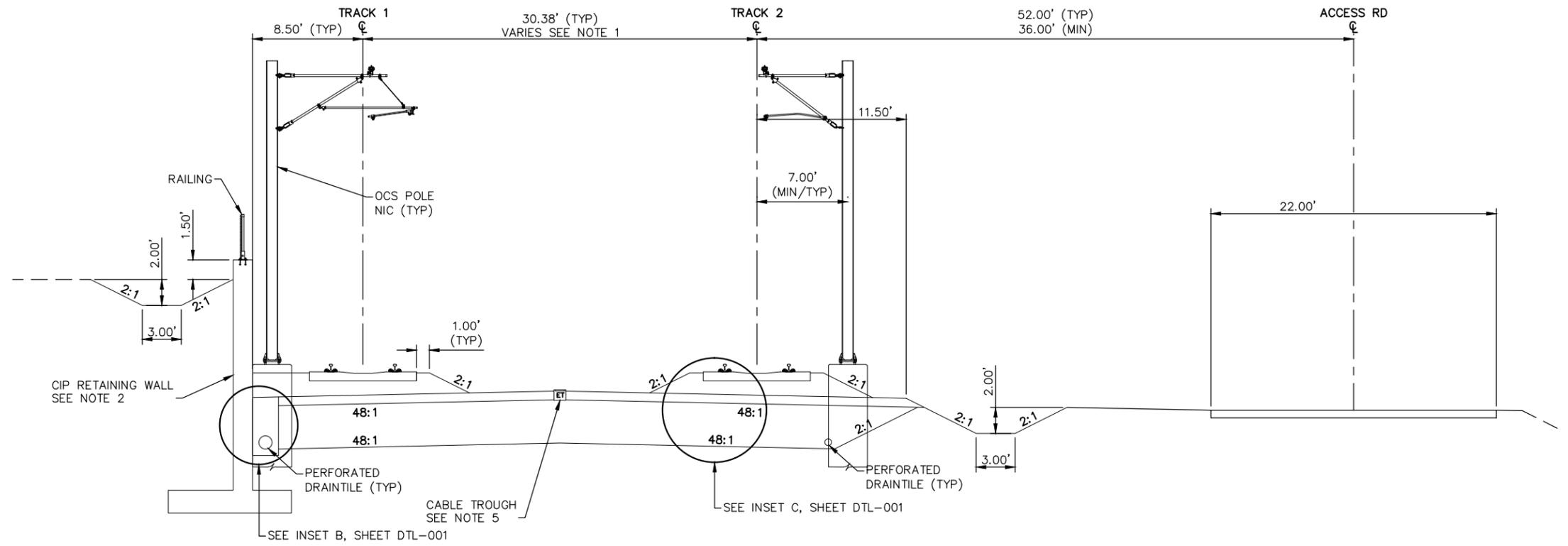


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

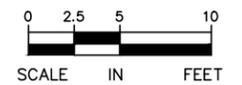
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 009

SHEET
 15
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-105. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. TPSS SITE ON TRACK 2 SIDE NOT DEPICTED BETWEEN STA. 2112+08 AND 2113+01.
 4. LIMITS OF TOWN CENTER STATION (DEFERRED) ARE BETWEEN STA. 2115+57.17 AND 2118+27.17. NOT ILLUSTRATED.
 5. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2112+07.79 TO 2115+67.79



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60% SUBMISSION - 09/28/15

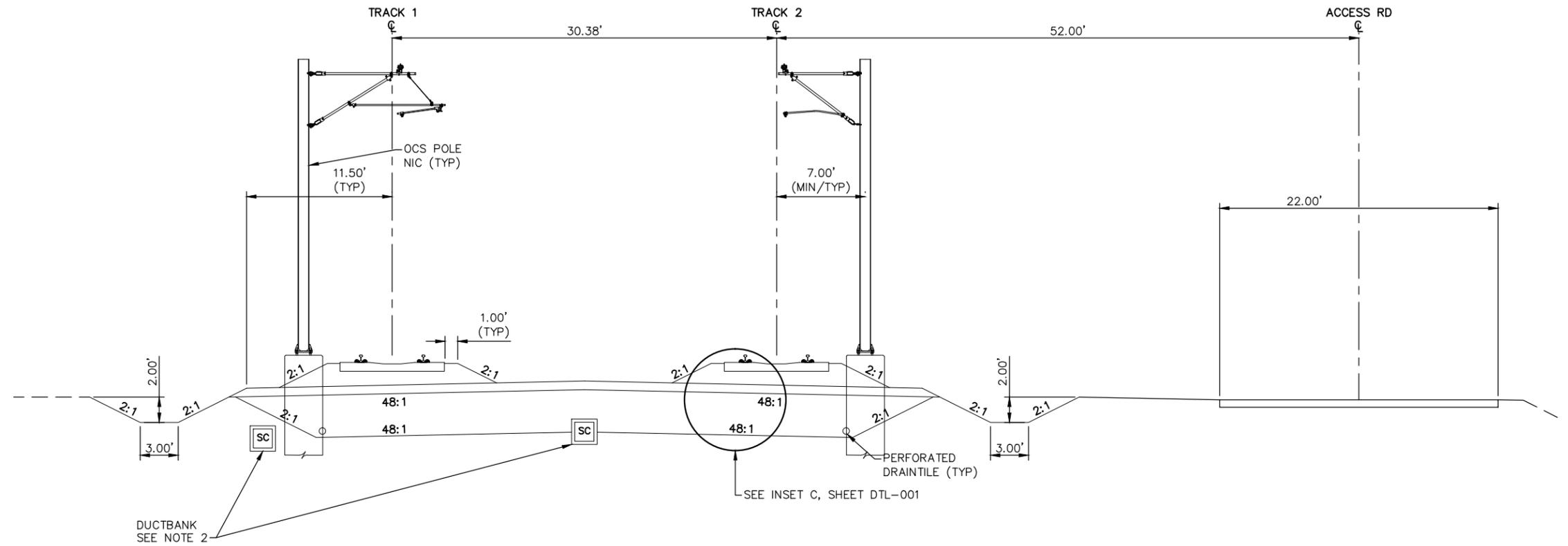


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

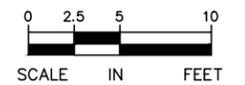
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 010

SHEET
 16
 OF
 189

- NOTES:**
- LIMITS OF TOWN CENTER STATION (DEFERRED) ARE BETWEEN STA. 2115+57.17 AND 2118+27.17. NOT ILLUSTRATED.
 - SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
STA. 2115+67.79 TO 2118+27.17



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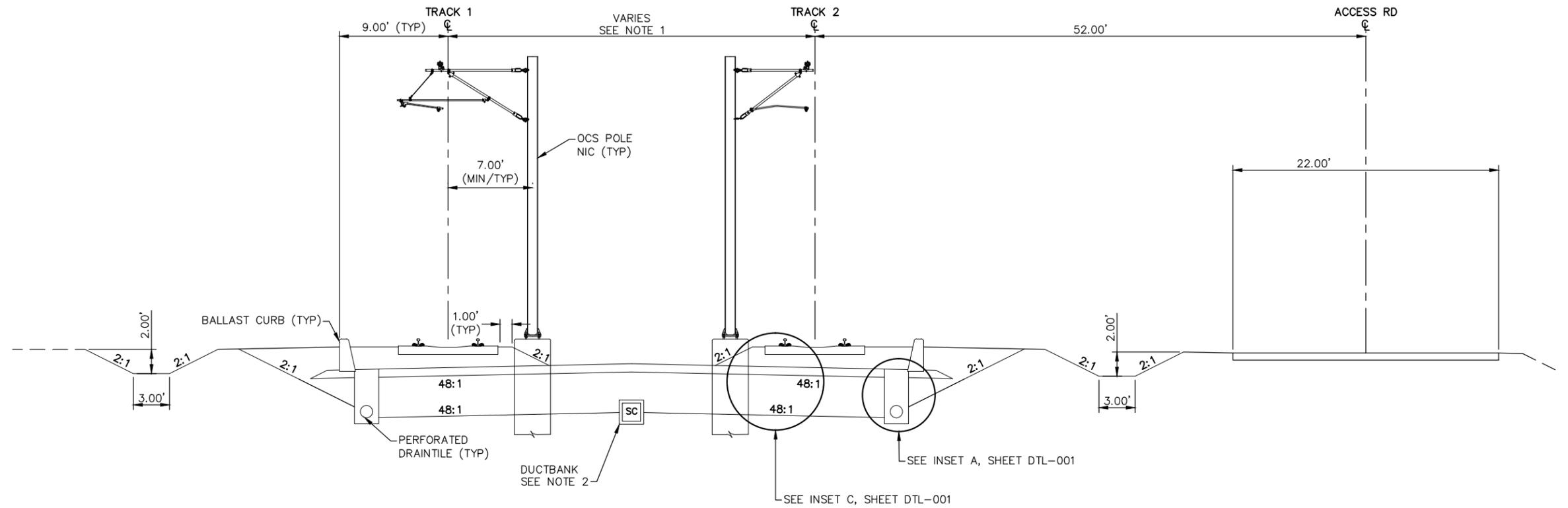


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

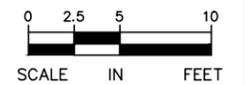
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 011

SHEET
17
OF
189

- NOTES:**
1. TRACK CENTERS NARROW FROM 30.38' TO 20.00' BETWEEN STA. 2118+77.32 AND 2121+65.07.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
STA. 2118+27.17 TO 2121+65.07



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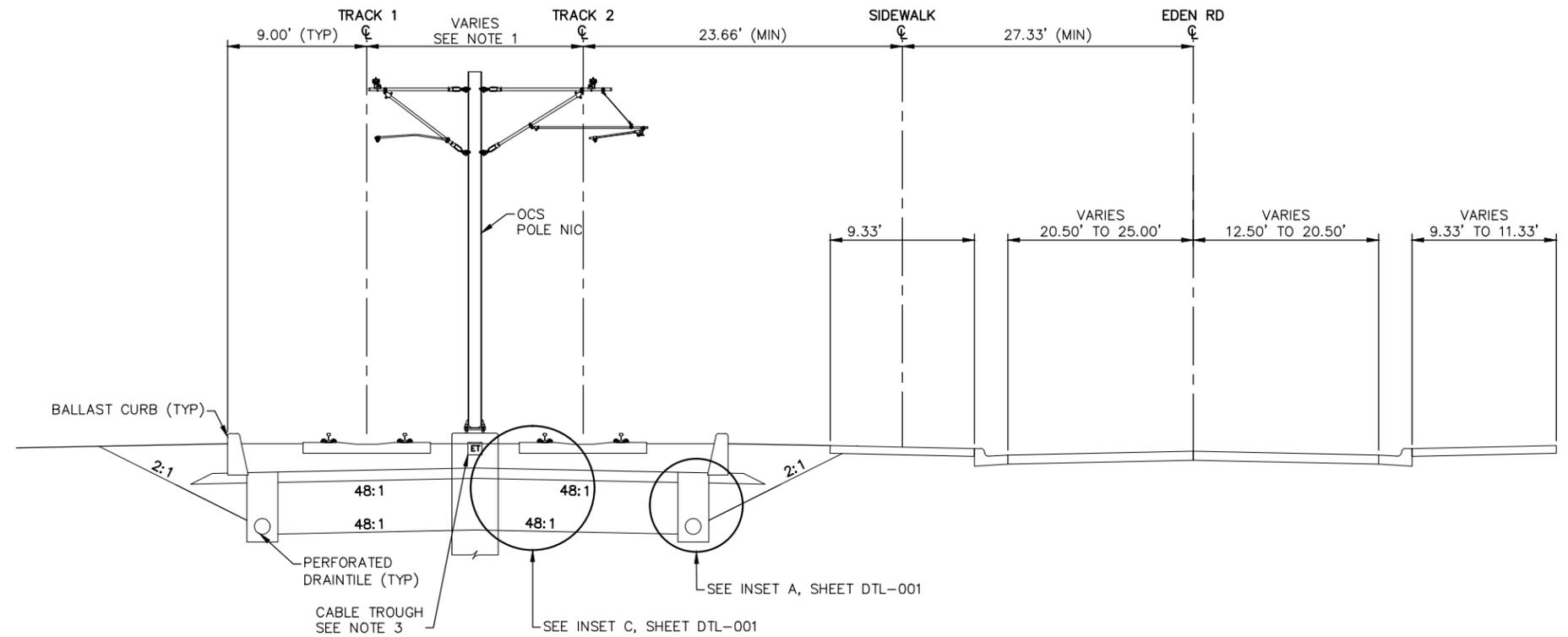


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

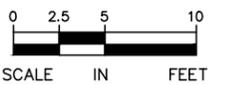
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 012

SHEET
18
OF
189

- NOTES:**
1. TRACK CENTERS NARROW FROM 20.00' TO 14.00' BETWEEN STA. 5121+65.07 AND 2126+24.68. SEE TRACK PLANS.
 2. SECTION DOES NOT ILLUSTRATE GRADE CROSSING AT EDEN ROAD. SEE TRACK PLANS AND DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2121+65.07 TO 2129+50.00



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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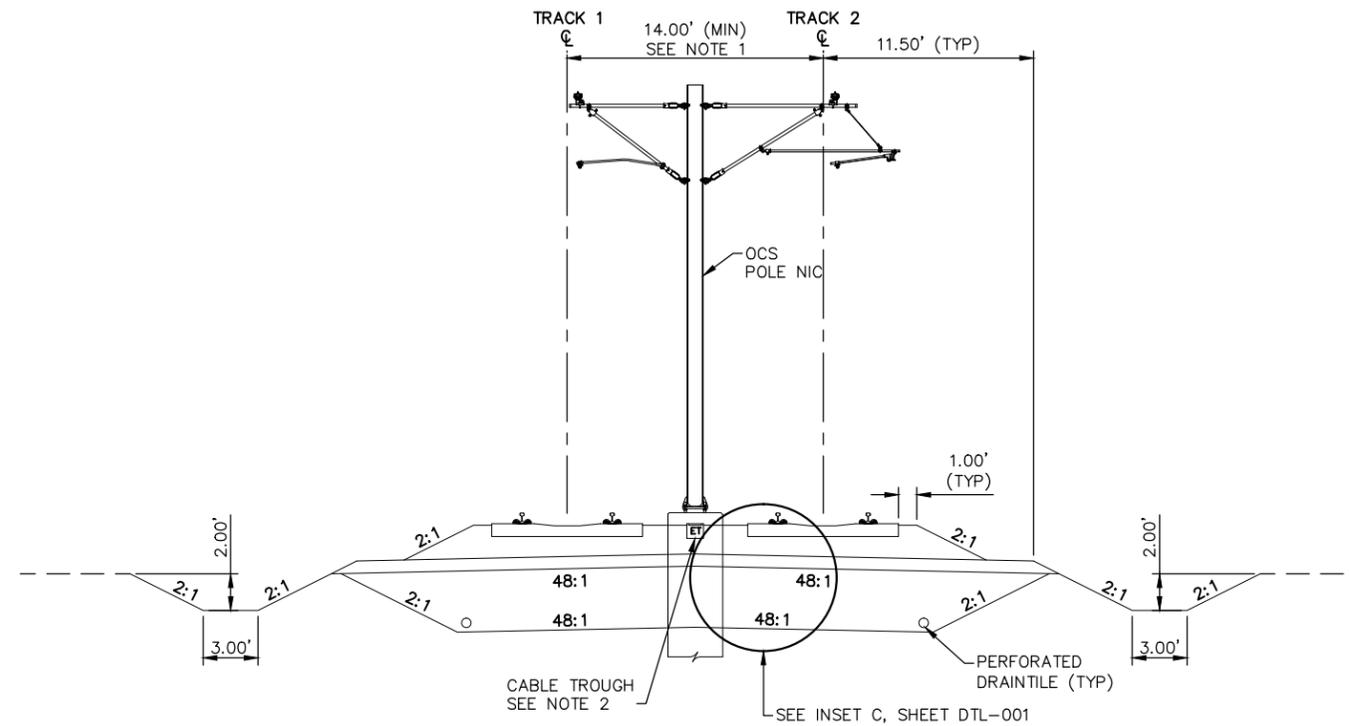


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

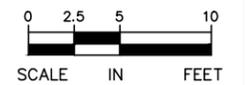
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 013

**SHEET
 19
 OF
 189**

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-208. SEE TRACK PLANS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2129+50.00 TO 2131+33.58



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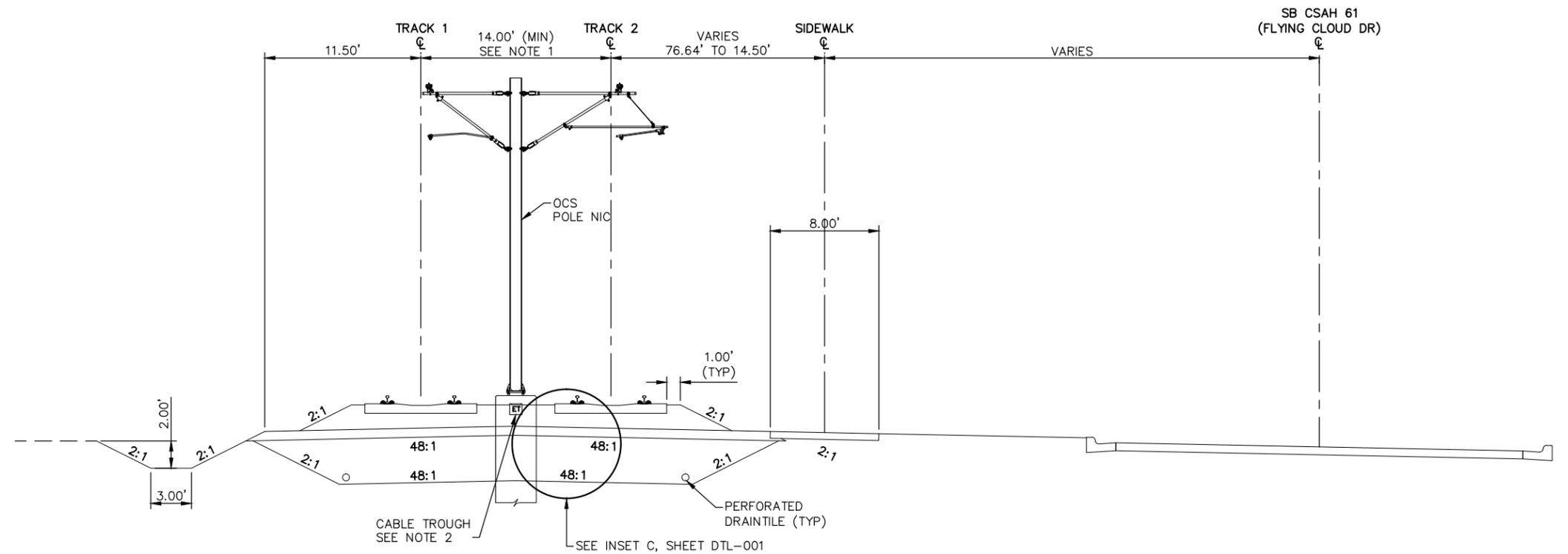
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

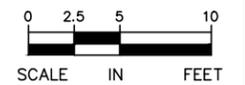
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 014

SHEET
 20
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-208. SEE TRACK PLANS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2131+33.58 TO 2135+19.09



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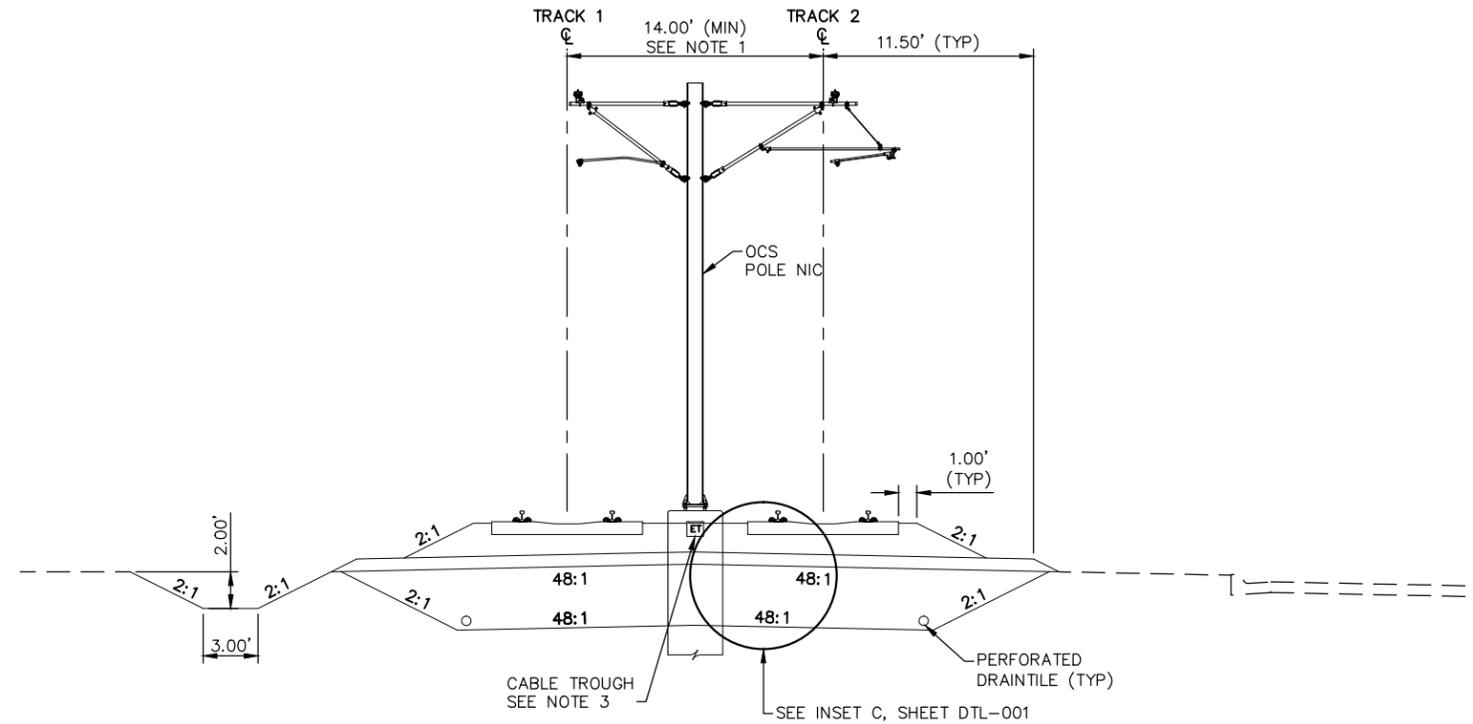
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

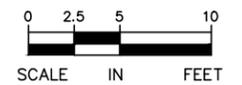
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 015

SHEET
 21
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-209. SEE TRACK PLANS.
 2. SECTION DOES NOT ILLUSTRATE GRADE CROSSING AT TECHNOLOGY DRIVE. SEE TRACK PLANS AND DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2135+19.09 TO 2138+57.61



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15



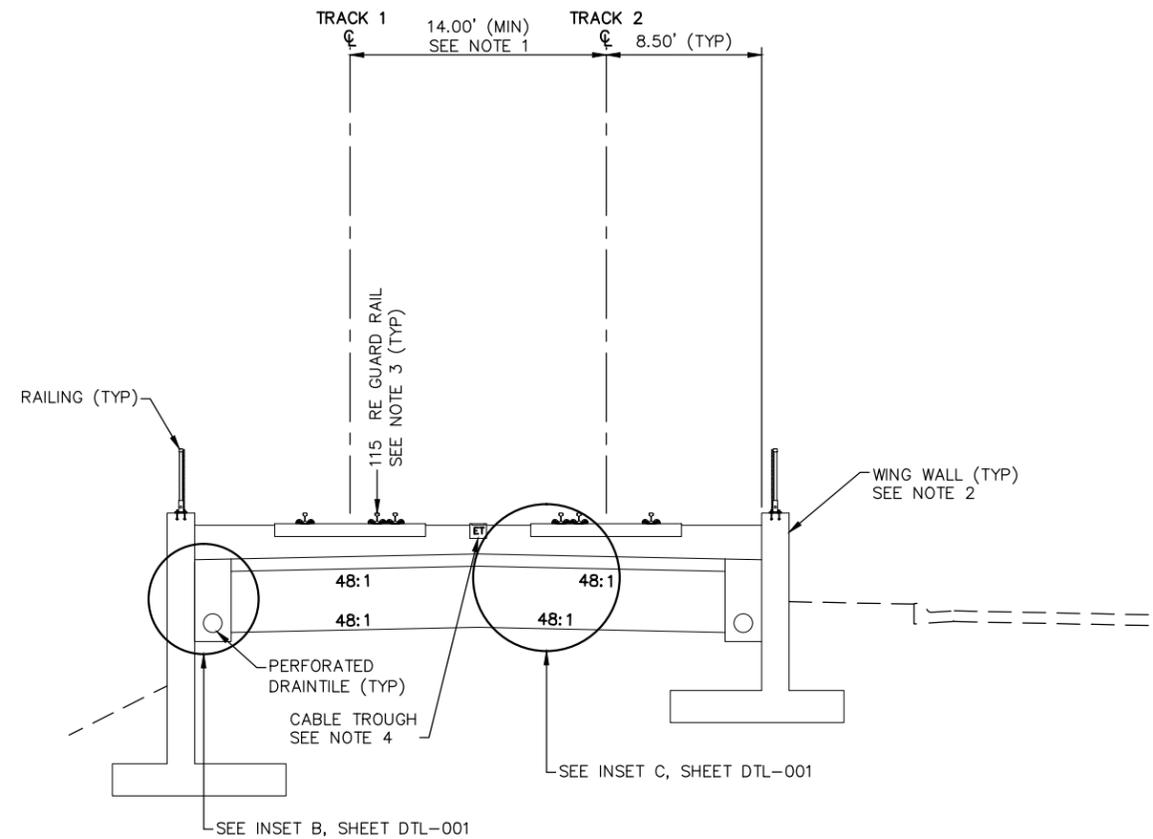
CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS

DISCIPLINE: TRACK

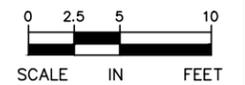
SHEET NAME: W1-TRK-TYP - 016

SHEET
 22
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-209. SEE TRACK PLANS.
 2. SEE BRIDGE PLANS FOR WING WALL DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2138+57.61 TO 2138+89.27



Sep. 21 2015 01:44 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

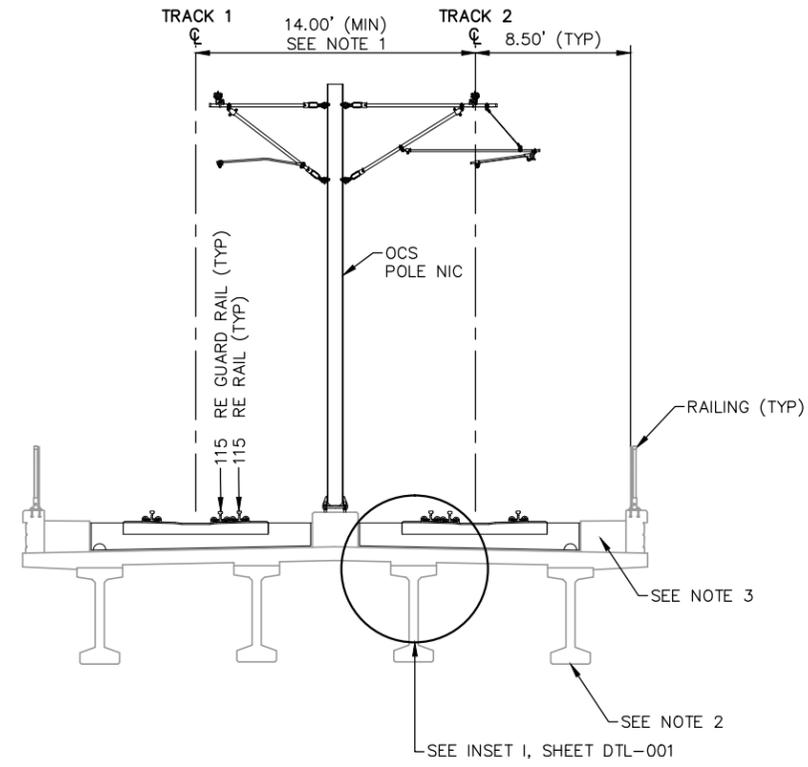


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

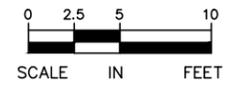
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 017

SHEET
 23
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-209. SEE TRACK PLANS.
 2. Mn/DOT BRIDGE CBR27W32. SEE STRUCTURAL PLANS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2138+89.27 TO 2140+86.00



Sep. 21 2015 01:44 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



AECOM

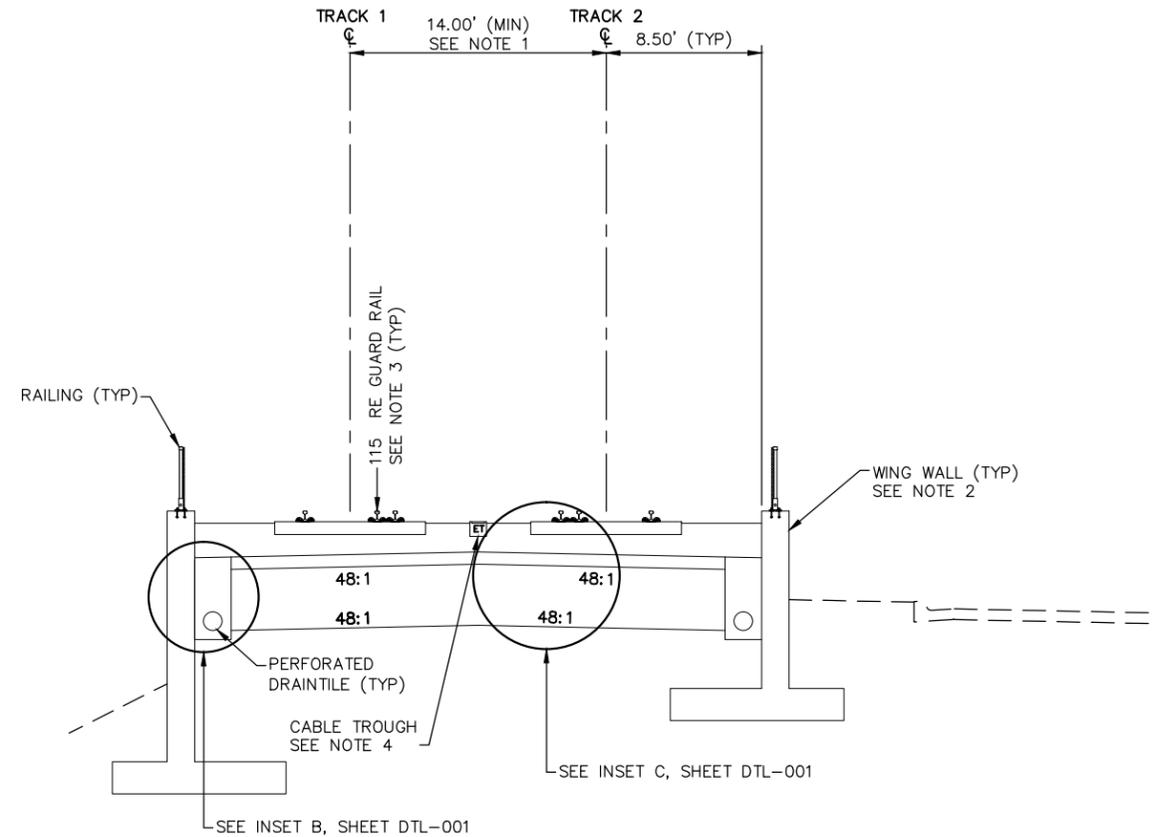
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

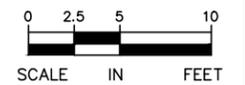
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 018

SHEET
 24
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-209. SEE TRACK PLANS.
 2. SEE BRIDGE PLANS FOR WING WALL DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2140+86.00 TO 2141+34.93



Sep. 21 2015 01:44 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

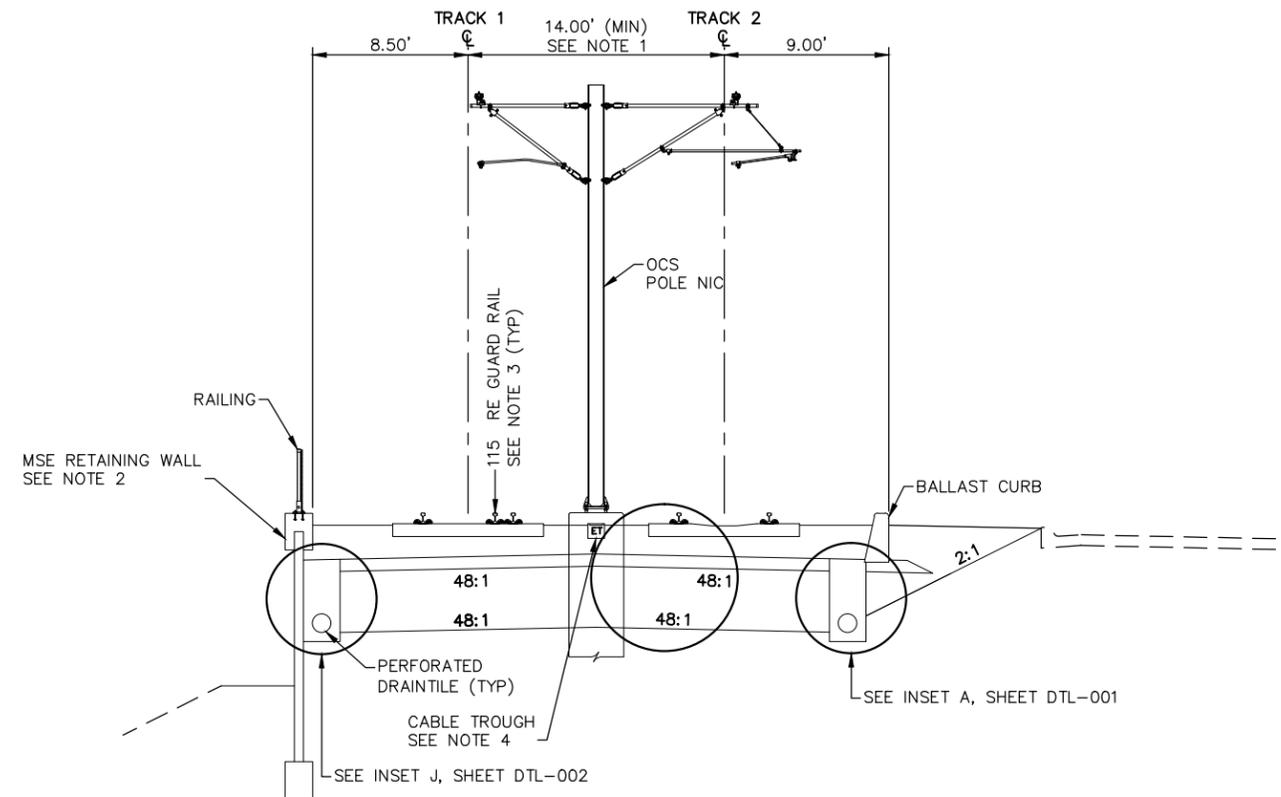


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

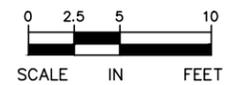
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 019

SHEET
 25
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-209. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.

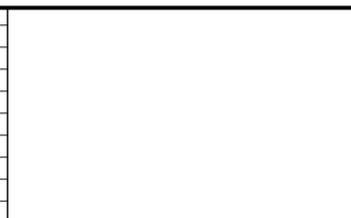


TYPICAL SECTION
 STA. 2141+34.93 TO 2146+68.34



Sep. 21 2015 01:44 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

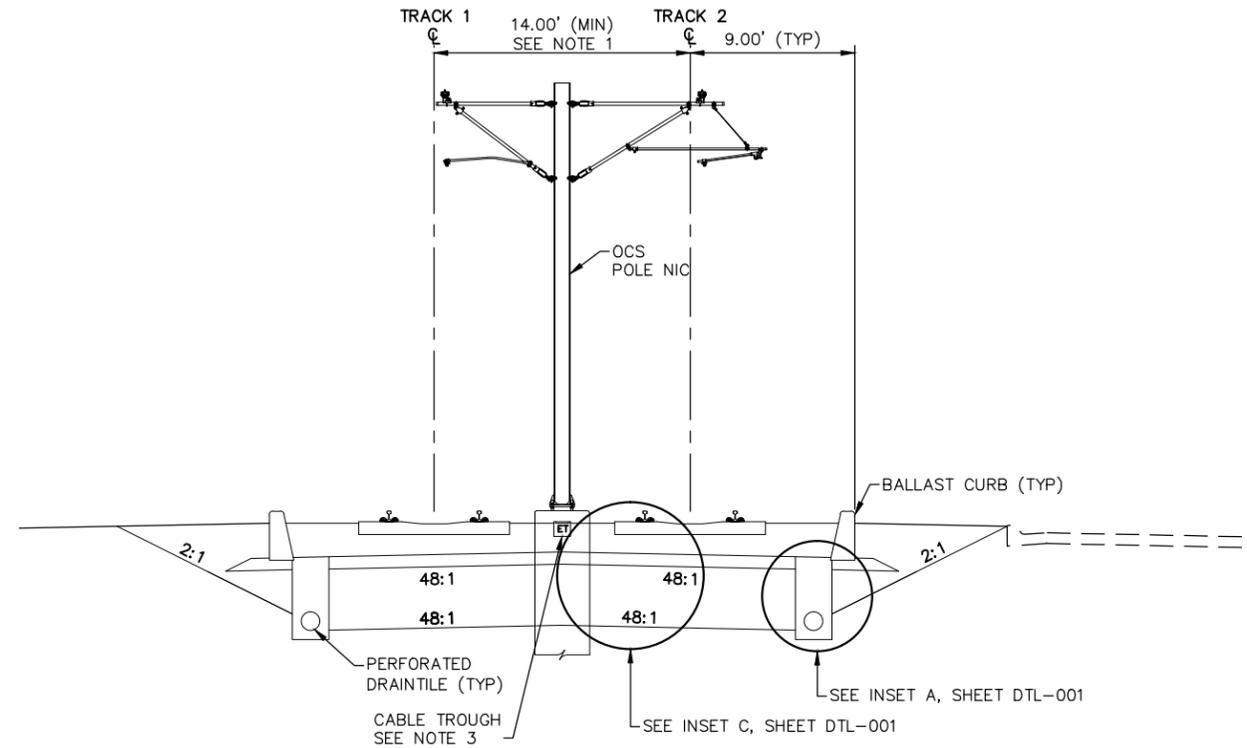


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

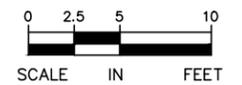
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 020

SHEET
 26
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-209. SEE TRACK PLANS.
 2. SECTION DOES NOT ILLUSTRATE GRADE CROSSING AT VIKING DRIVE. SEE TRACK PLANS AND DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2146+68.34 TO 2152+66.63



Sep. 21 2015 01:45 am v:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

METROPOLITAN COUNCIL

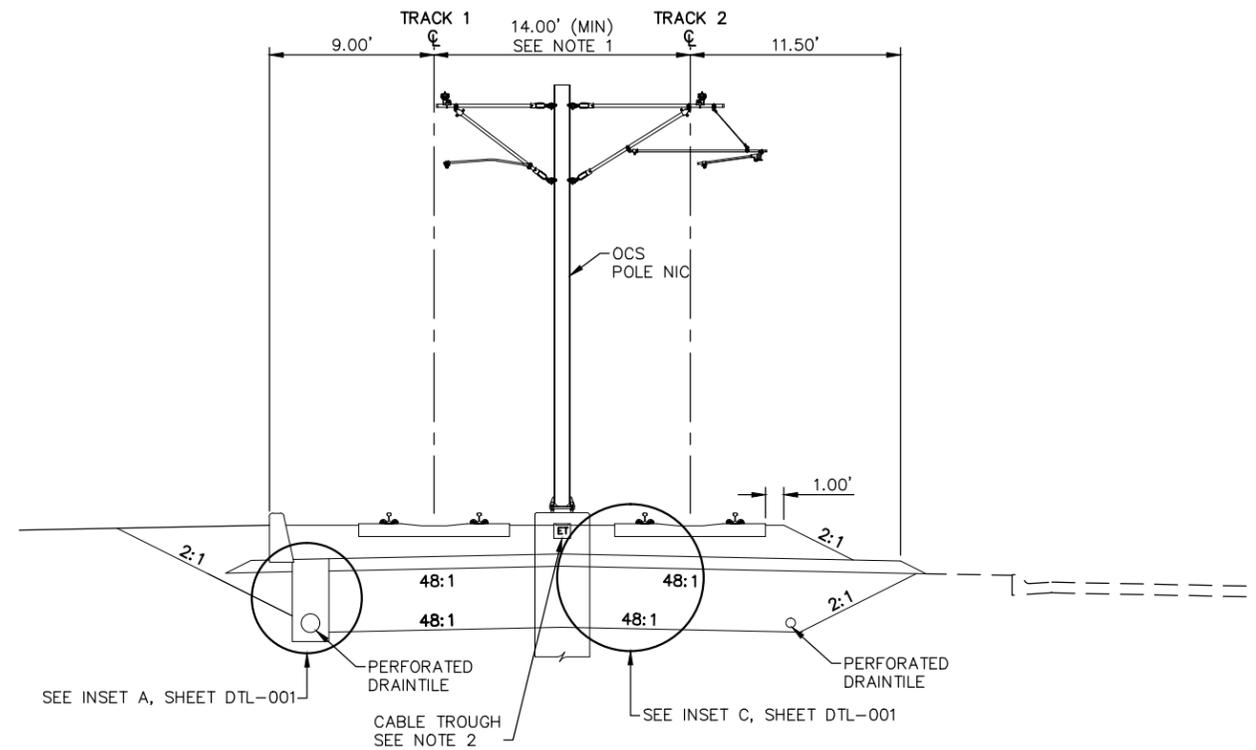
SOUTHWEST
Green Line Light Extension

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

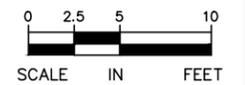
DISCIPLINE: **TRACK** SHEET NAME: **W1-TRK-TYP - 021**

SHEET
27
OF
189

- NOTES:**
1. TRACK CENTERS VARY IN CURVES W1-209 AND W1-210. SEE TRACK PLANS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2152+66.63 TO 2154+39.28



Sep. 21 2015 01:45 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

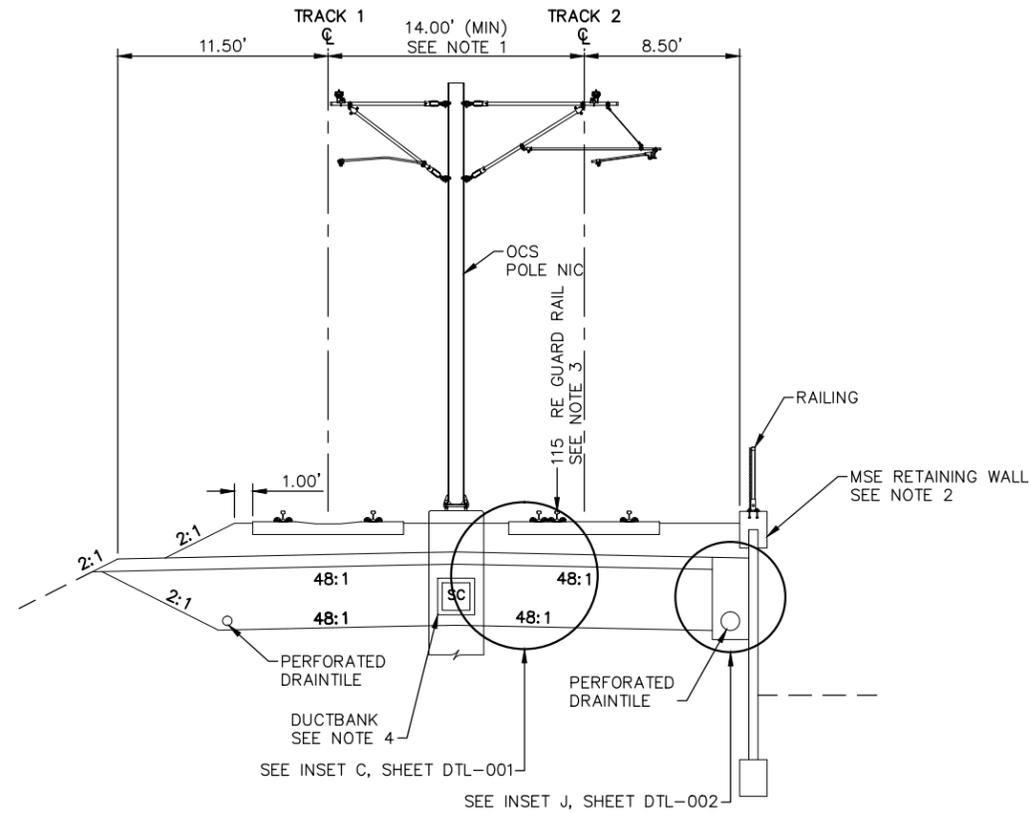


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

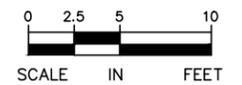
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 022

SHEET
 28
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-210. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2154+39.28 TO 2155+49.94



Sep. 21 2015 01:45 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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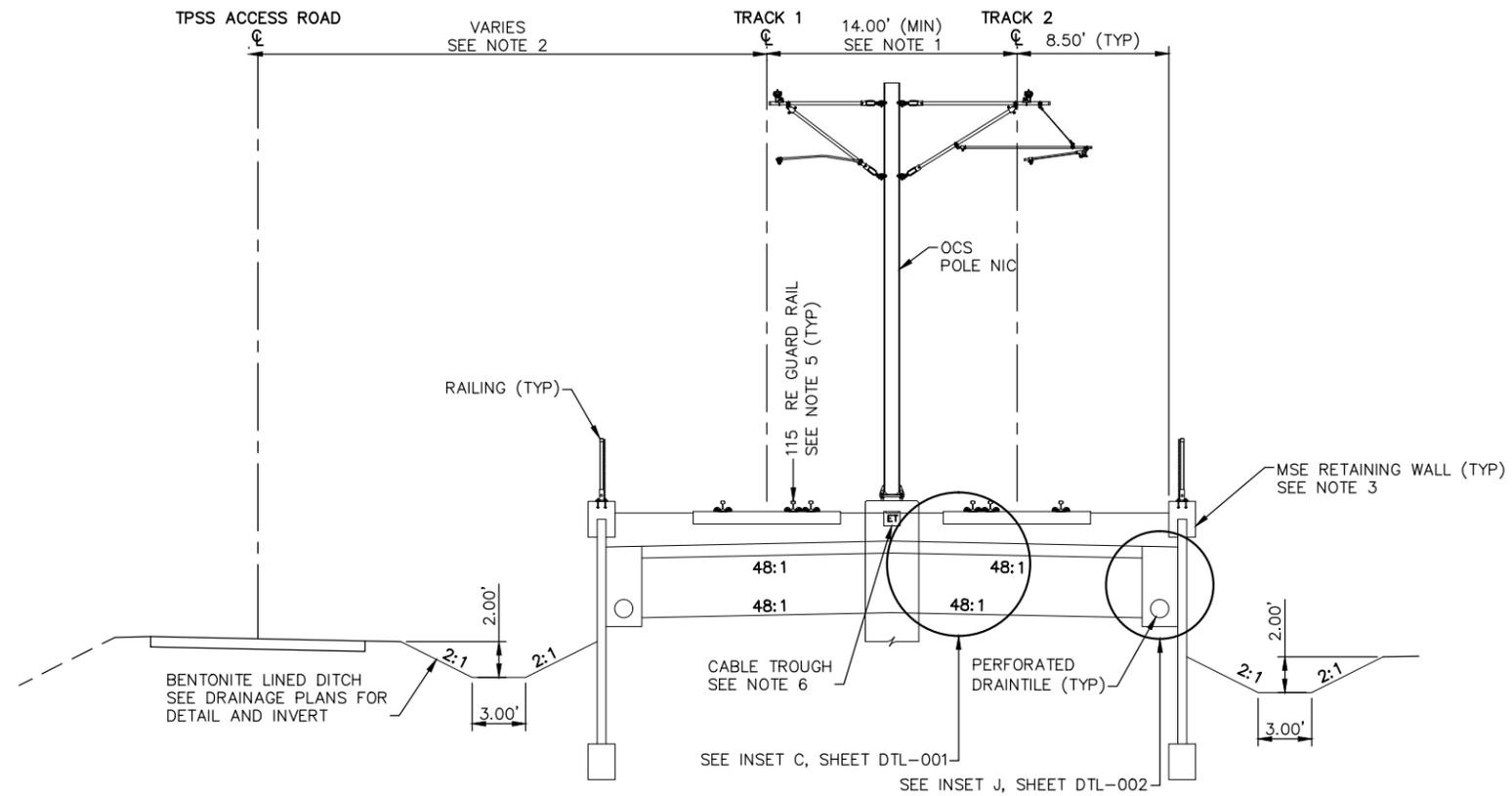
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

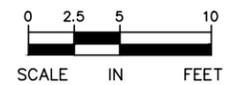
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 023

SHEET
 29
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-210. SEE TRACK PLANS.
 2. OFFSET FROM ϕ TRACK 1 TO ϕ ACCESS ROAD VARIES FROM 76.02' TO 50.93'
 3. SEE RETAINING WALL PLANS FOR DETAILS.
 4. TPSS SITE NOT DEPICTED BETWEEN STA. 2155+65 AND STA. 2156+26.
 5. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 6. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
STA. 2155+49.94 TO 2157+94.68



Sep. 21 2015 01:45 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

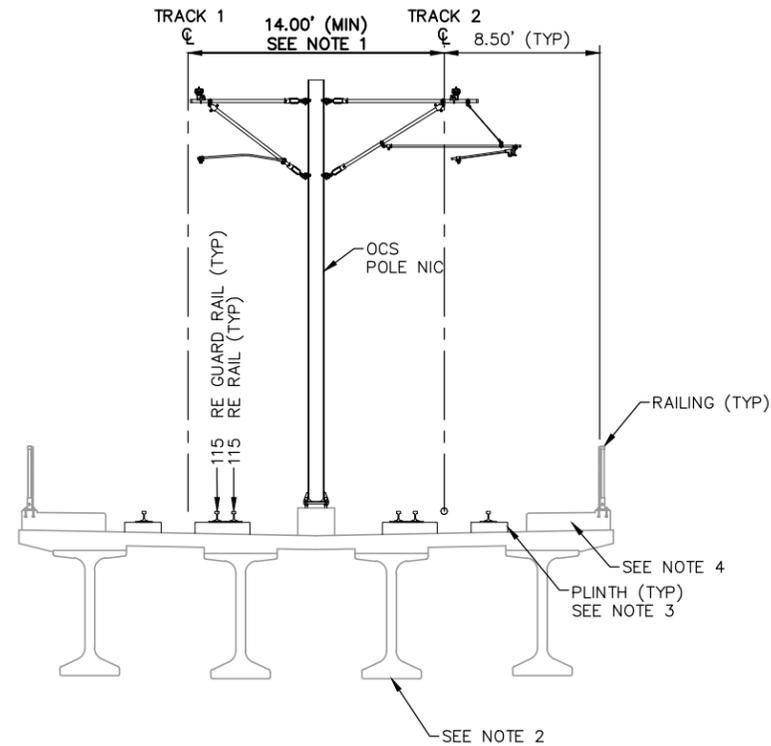


**CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS**

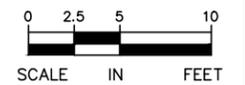
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 024

SHEET
30
OF
189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-211. SEE TRACK PLANS.
 2. Mn/DOT BRIDGE BR27R33. SEE STRUCTURAL PLANS.
 3. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2157+94.68 TO 2167+91.35



Sep. 21 2015 01:45 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

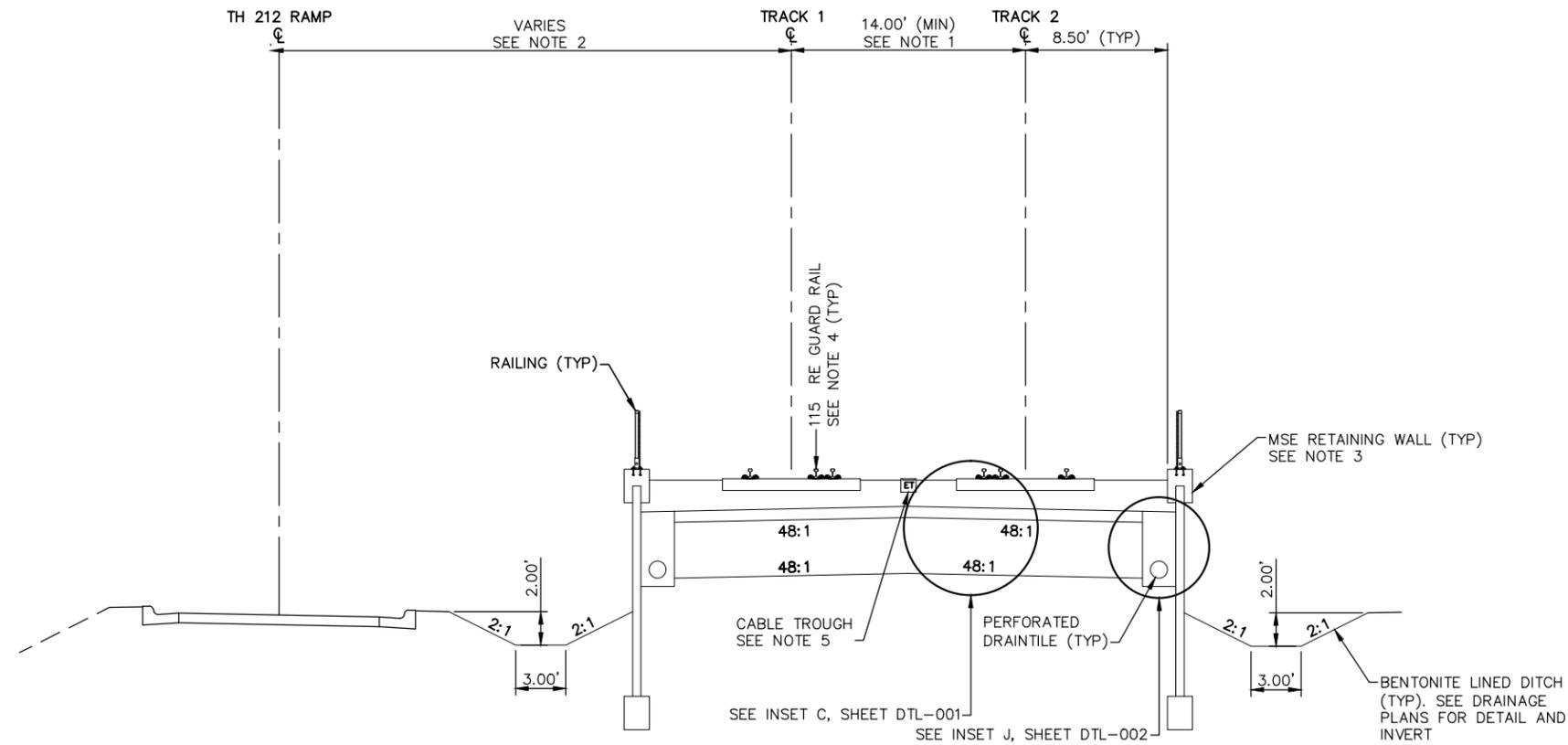


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

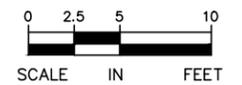
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 025

SHEET
 31
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-211. SEE TRACK PLANS.
 2. OFFSET FROM CL TRACK 1 TO CL TH 212 RAMP VARIES FROM 40.31' TO 55.22'.
 3. SEE RETAINING WALL PLANS FOR DETAILS.
 4. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 5. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2167+91.35 TO 2168+33.96



Sep. 21 2015 01:46 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

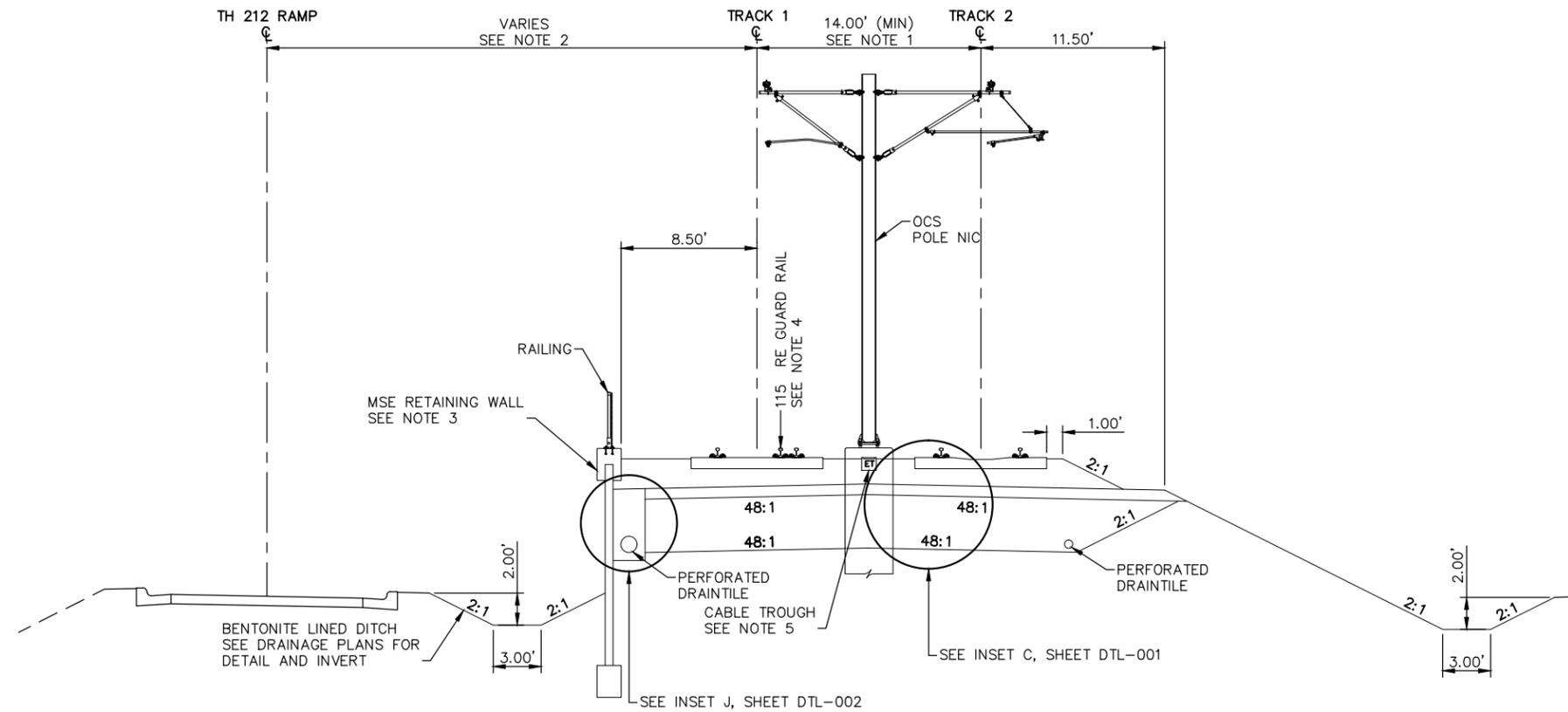


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

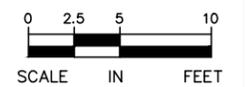
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 026

SHEET
 32
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-211. SEE TRACK PLANS.
 2. OFFSET FROM CL TRACK 1 TO CL TH 212 RAMP VARIES FROM 55.22' TO 71.10'.
 3. SEE RETAINING WALL PLANS FOR DETAILS.
 4. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 5. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.

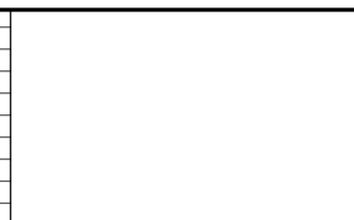


TYPICAL SECTION
STA. 2168+33.96 TO 2169+14.25



Sep. 21 2015 01:46 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

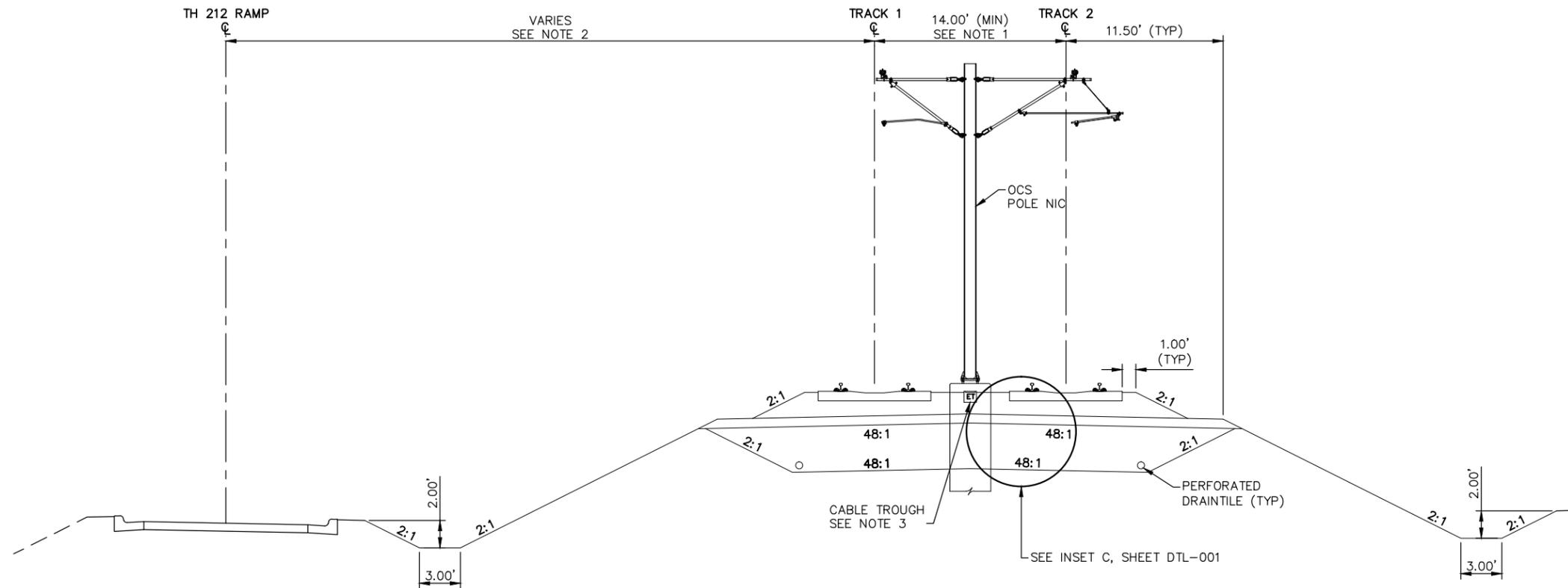


**CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS**

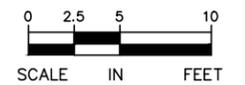
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 027

**SHEET
33
OF
189**

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W1-211. SEE TRACK PLANS.
 2. OFFSET FROM CL TRACK 1 TO CL TH 212 RAMP VARIES FROM 75.08' TO 63.09'.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2169+14.25 TO 2171+31.28



Sep. 21 2015 01:46 am v:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

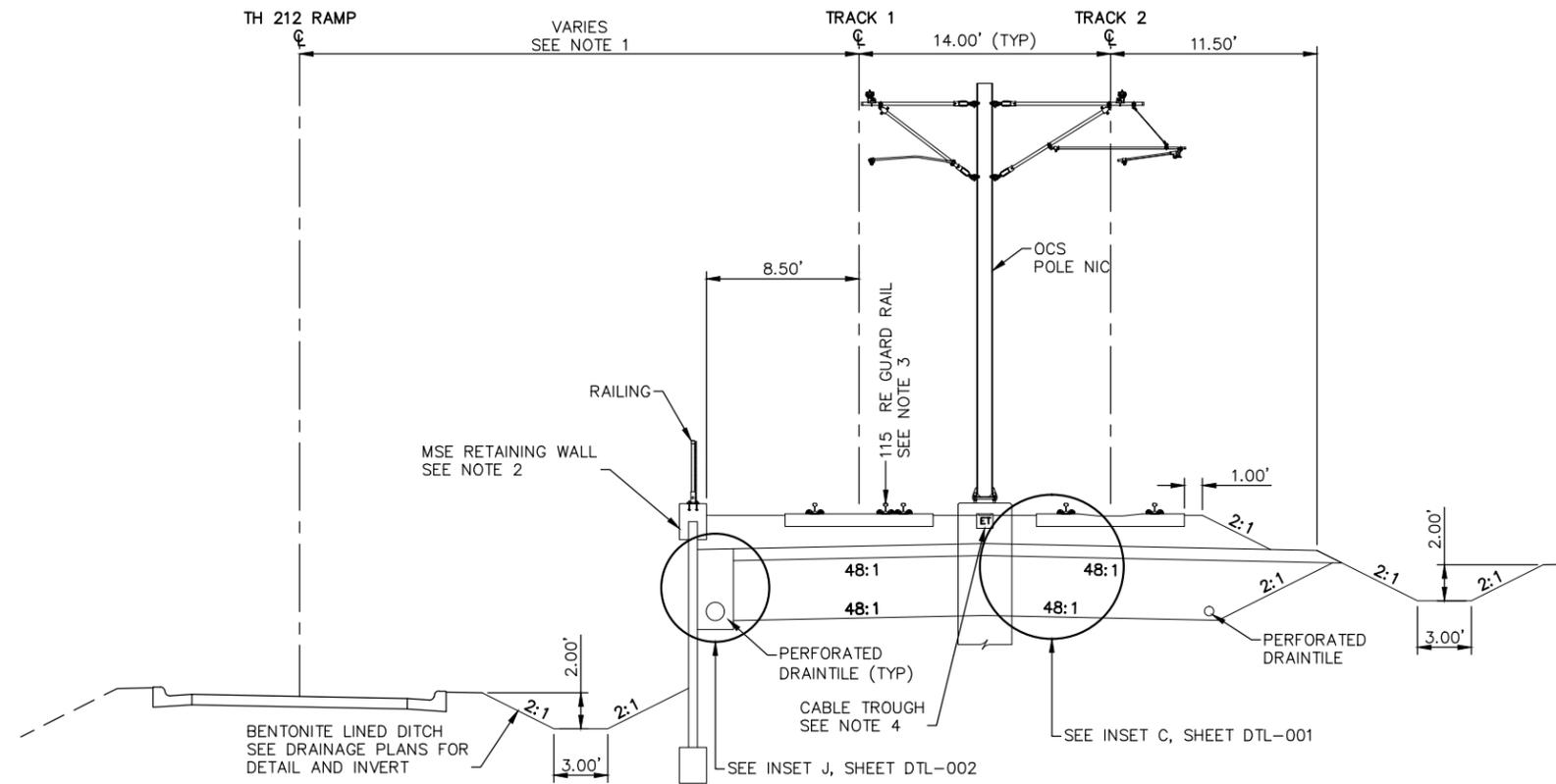
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

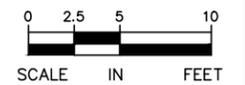
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 028

SHEET
 34
 OF
 189

- NOTES:**
1. OFFSET FROM CL TRACK 1 TO CL TH 212 RAMP VARIES FROM 63.09' TO 49.34'.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2171+31.28 TO 2171+81.41



Sep. 21 2015 01:46 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

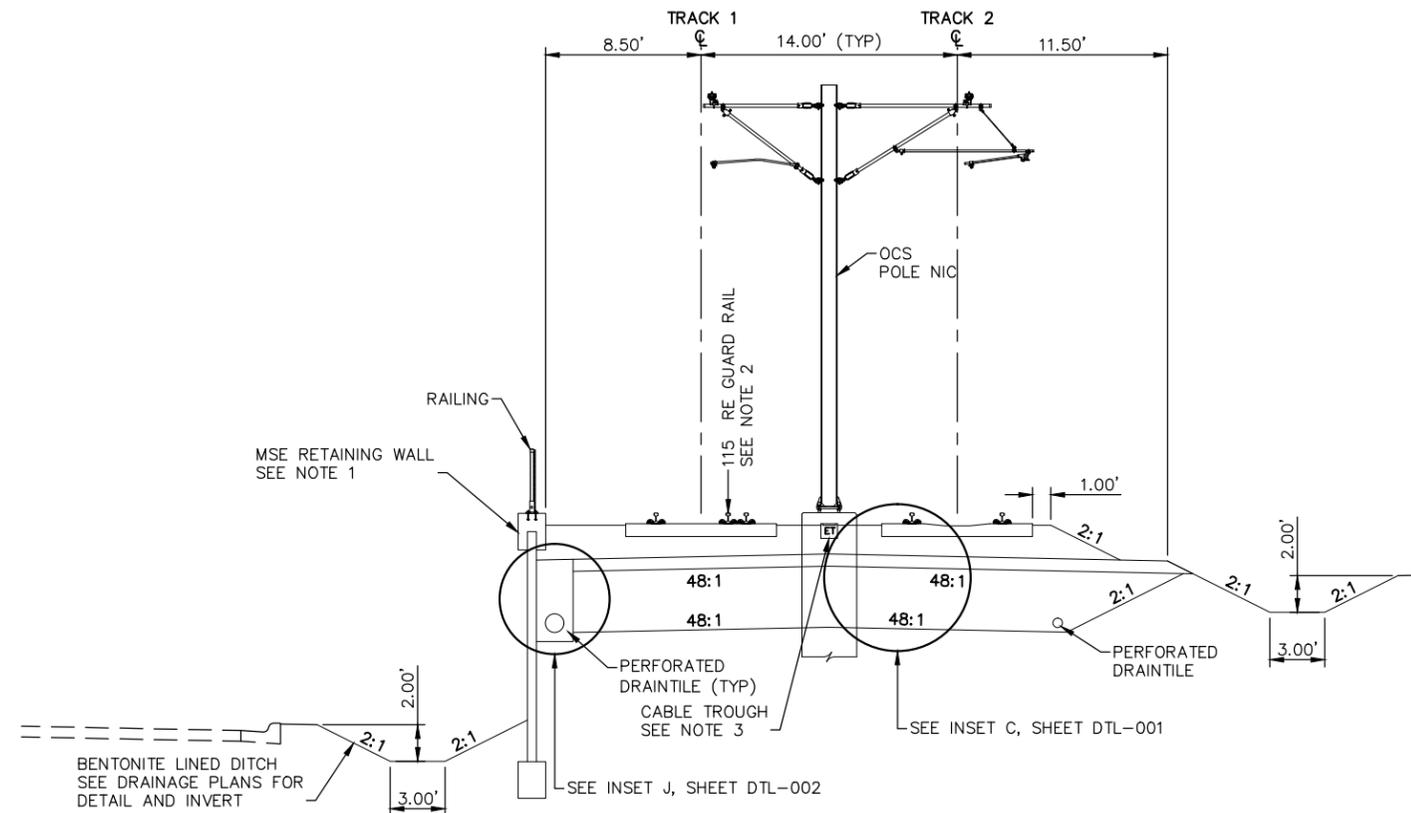
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

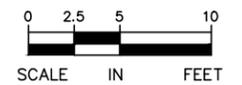
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 029

SHEET
 35
 OF
 189

- NOTES:**
1. SEE RETAINING WALL PLANS FOR DETAILS.
 2. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2171+81.41 TO 2173+69.94



Sep. 21 2015 01:46 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

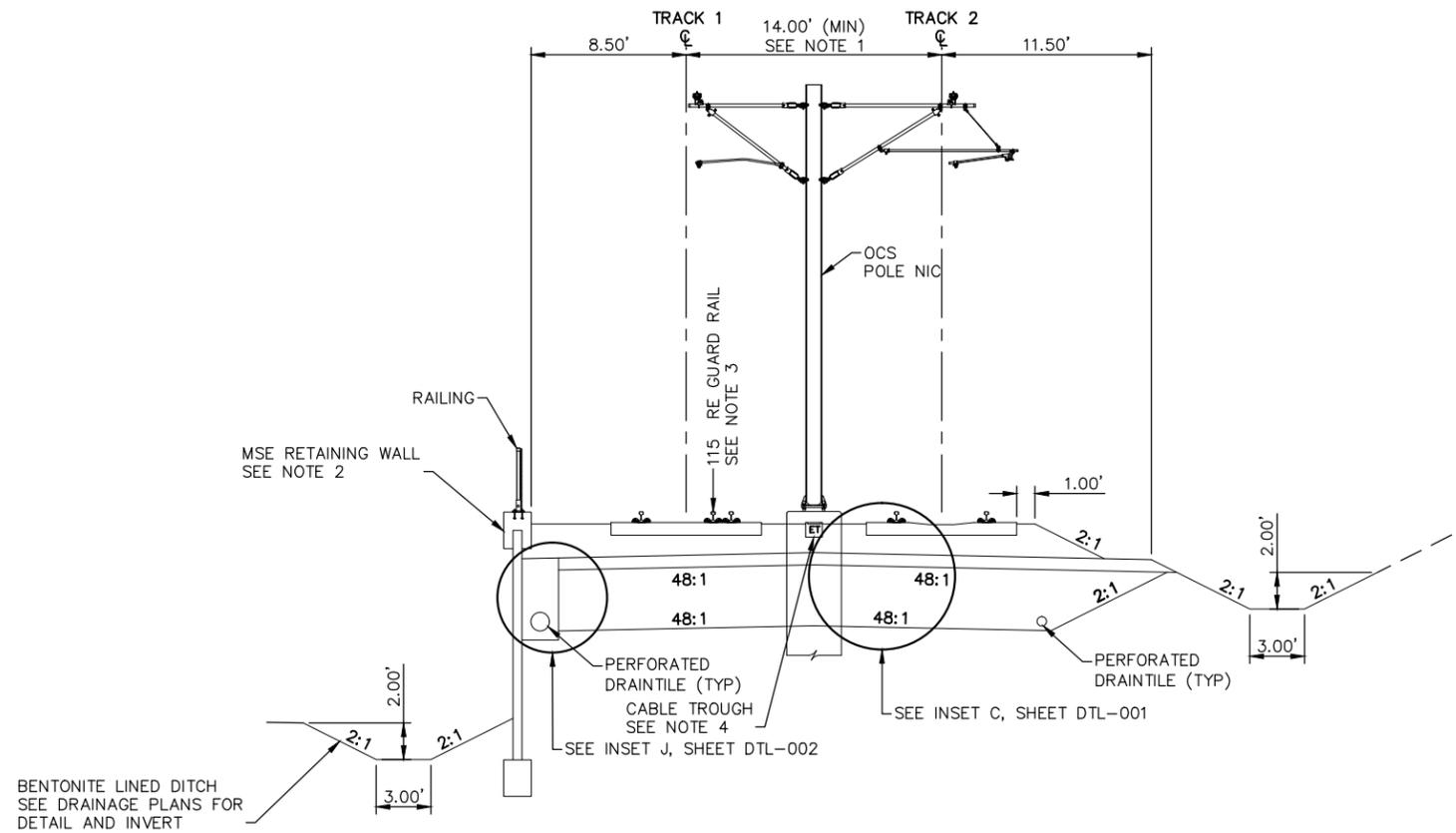
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

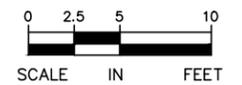
DISCIPLINE: TRACK SHEET NAME: W1-TRK-TYP - 030

SHEET
 36
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W2-200. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
STA. 2206+00.00 TO 2207+24.23



Sep. 21 2015 01:47 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

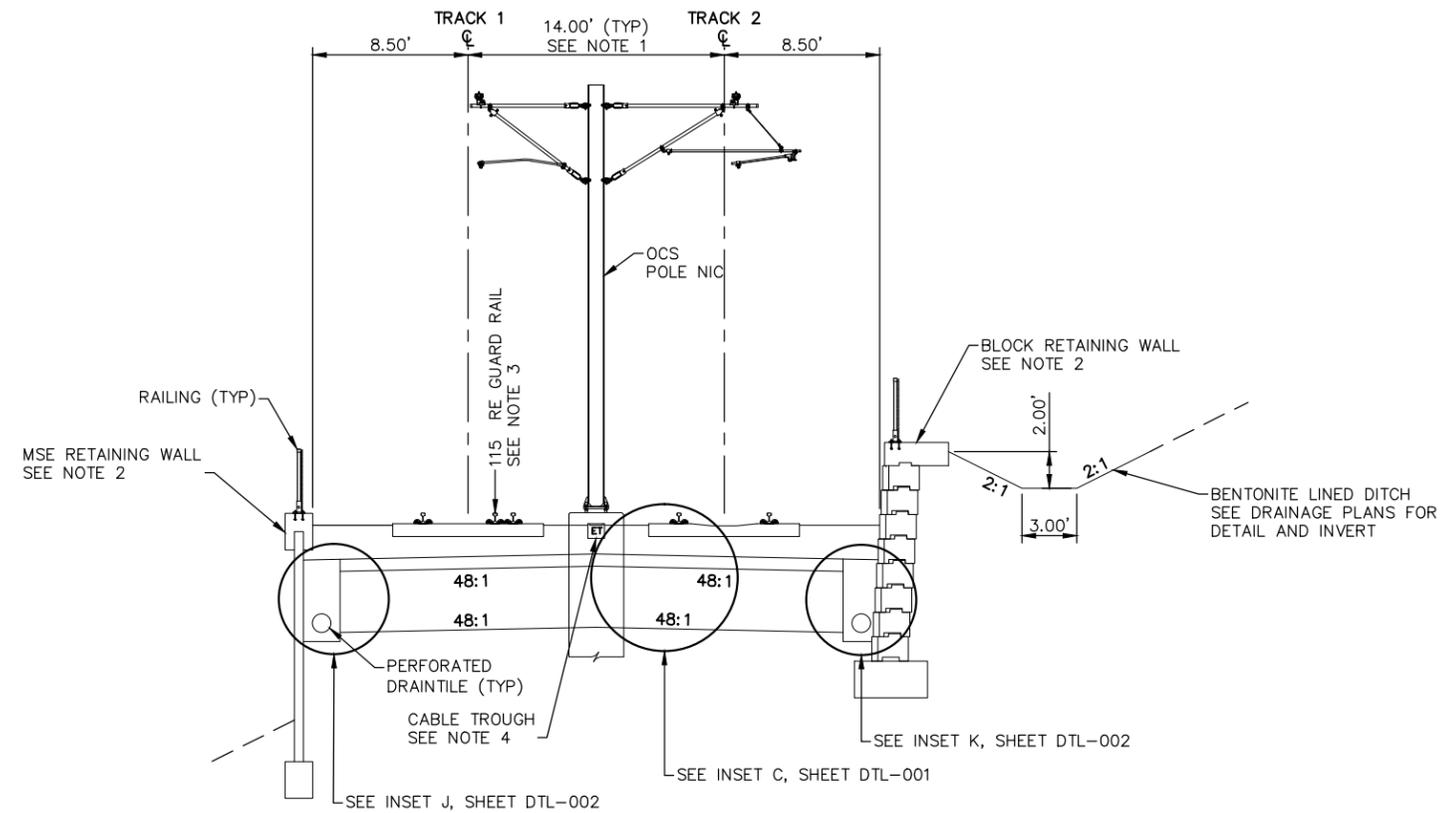
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

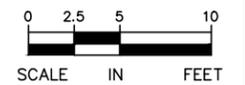
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 001

SHEET
37
OF
189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W2-200. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2207+24.23 TO 2211+50.00



Sep. 21 2015 01:47 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

METROPOLITAN COUNCIL

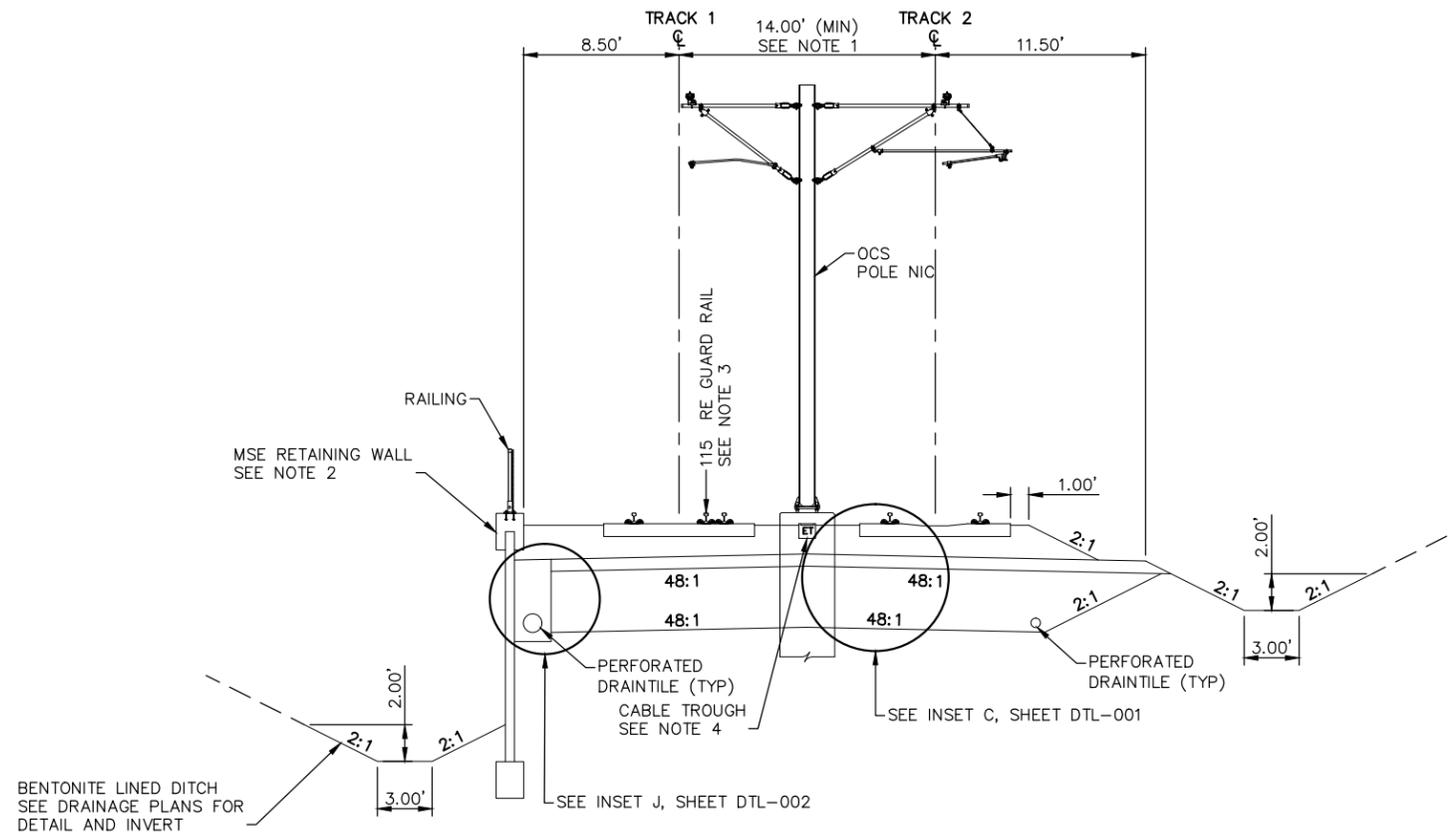
SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

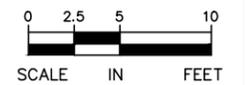
DISCIPLINE: **TRACK** SHEET NAME: **W2-TRK-TYP - 002**

SHEET
 38
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W2-201. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
STA. 2211+50.00 TO 2213+92.25



Sep. 21 2015 01:47 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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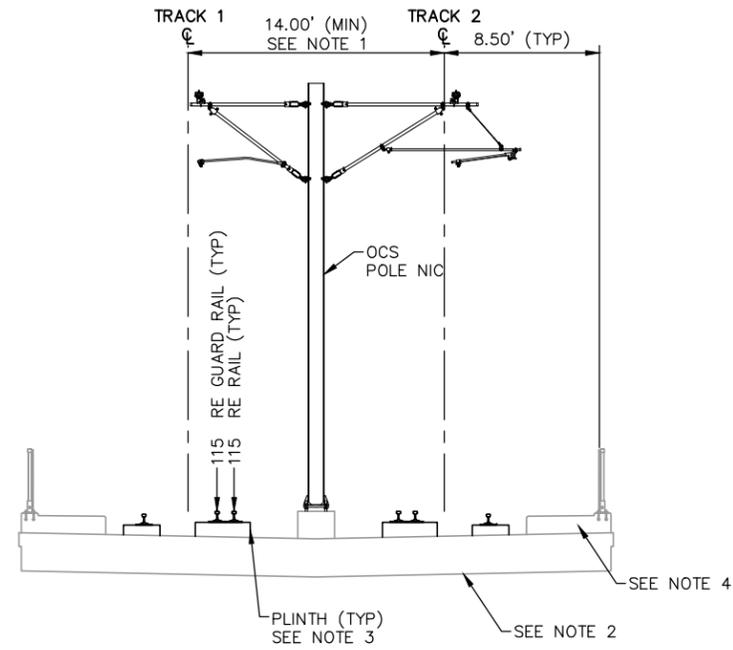
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

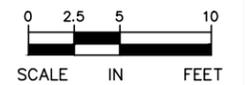
DISCIPLINE: **TRACK** SHEET NAME: **W2-TRK-TYP - 003**

SHEET
39
OF
189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W2-201. SEE TRACK PLANS.
 2. Mn/DOT BRIDGE CBR27C07. SEE STRUCTURAL PLANS.
 3. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2213+92.25 2216+95.00



Sep. 21 2015 01:47 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

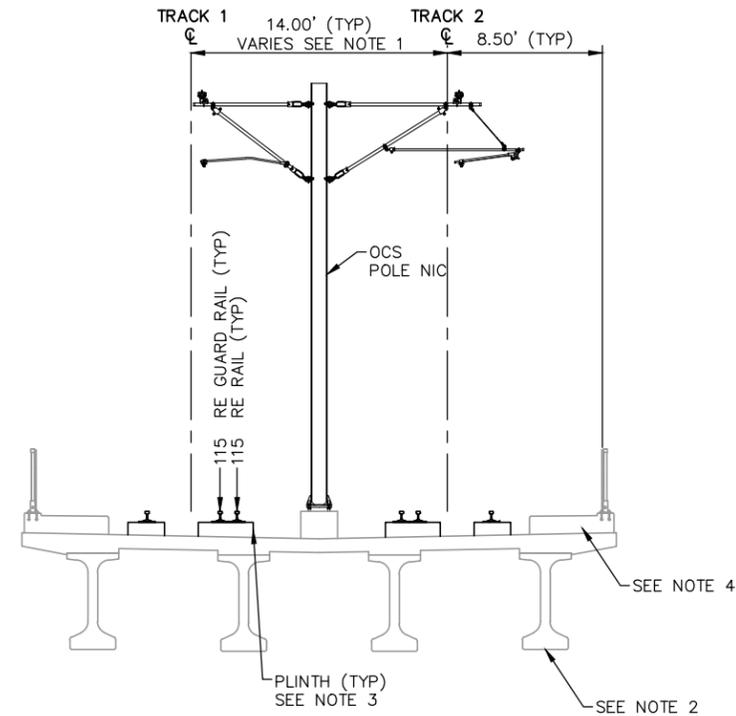


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

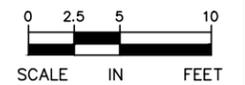
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 004

**SHEET
 40
 OF
 189**

- NOTES:**
1. TRACK CENTERS VARY IN CURVES W2-201 AND W2-202. SEE TRACK PLANS.
 2. Mn/DOT BRIDGE CBR27C07. SEE STRUCTURAL PLANS.
 3. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2216+95.00 TO 2227+97.75



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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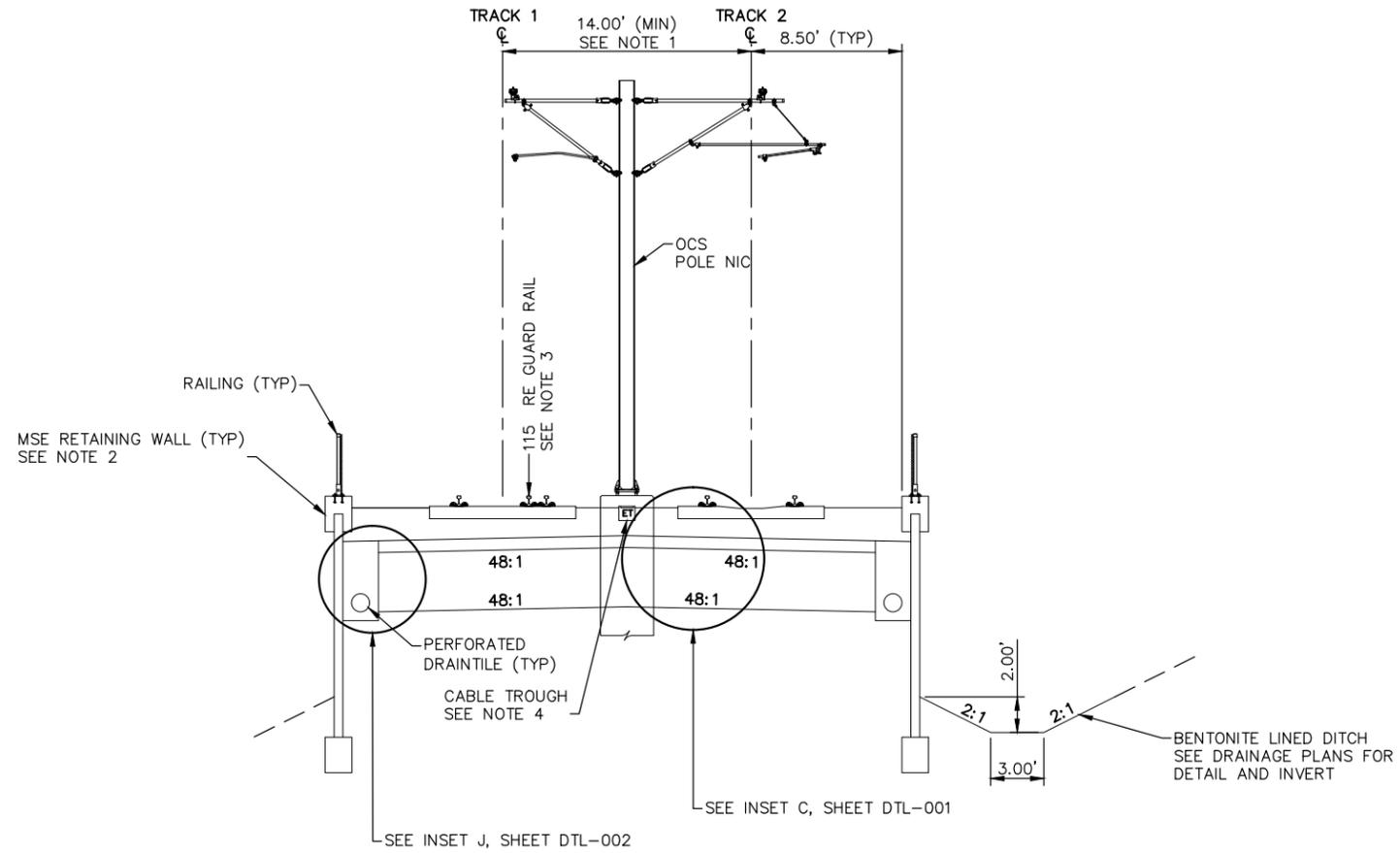


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

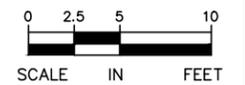
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SHEET
 41
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W2-203. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2227+97.75 TO 2231+50.16



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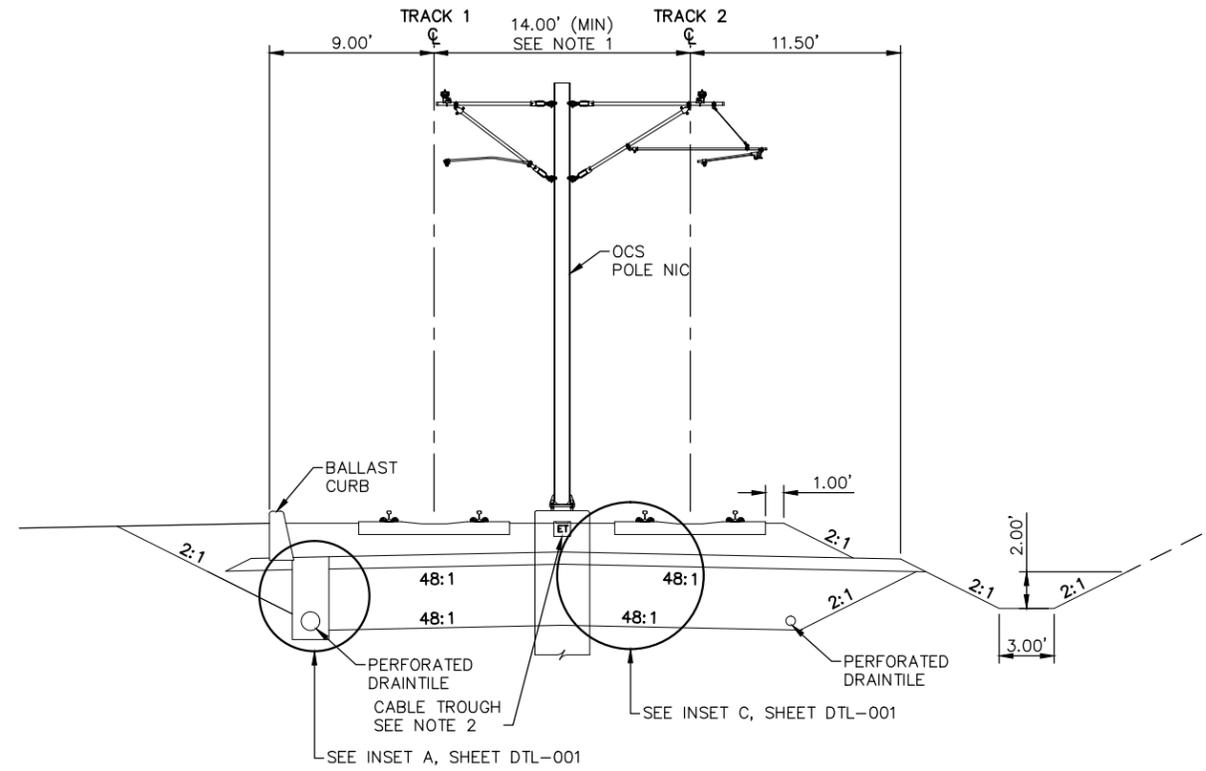


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

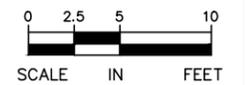
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 006

SHEET
 42
 OF
 189

- NOTES:**
1. TRACK CENTERSVARY IN CURVE W2-203. SEE TRACK PLANS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2231+50.16 TO 2232+97.55



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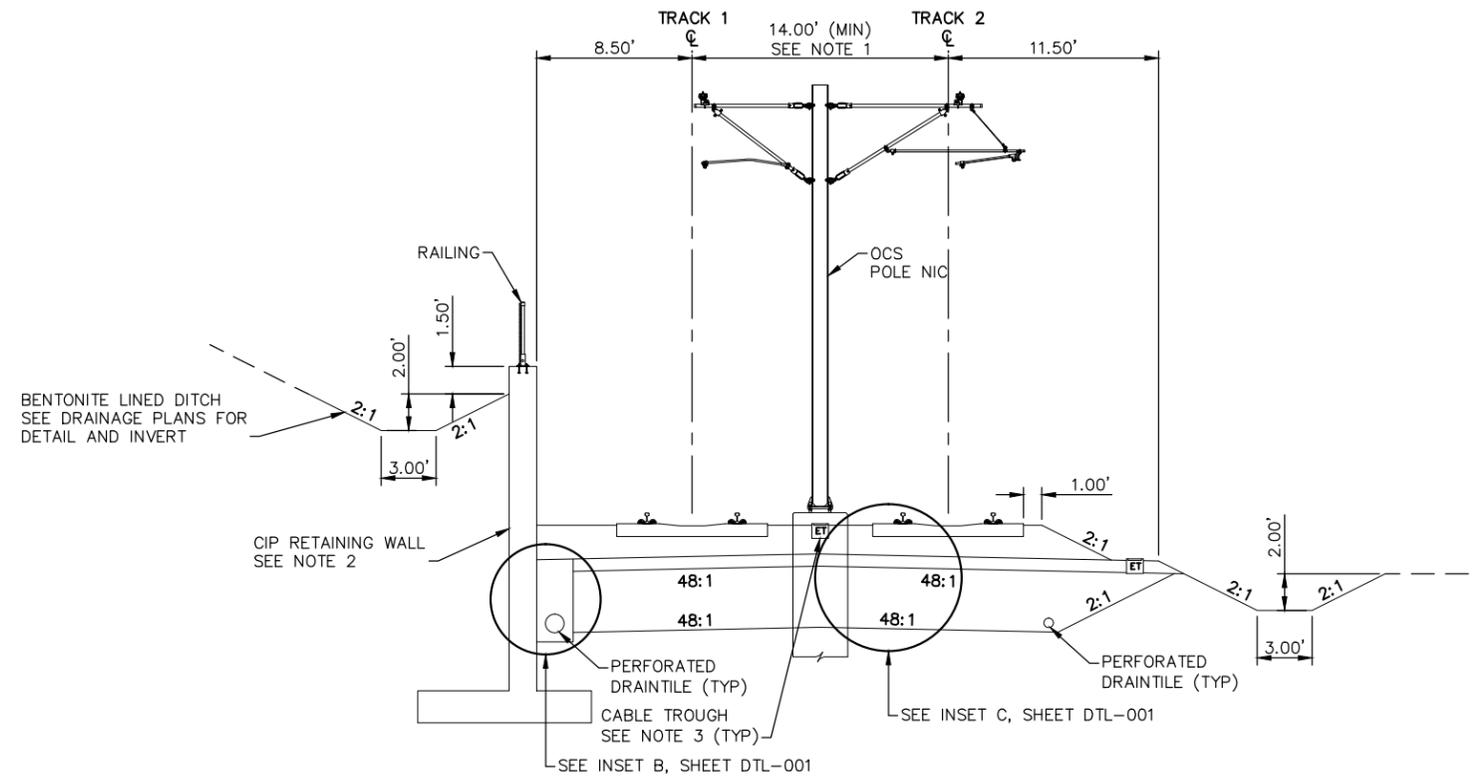


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

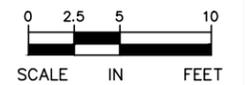
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 007

**SHEET
 43
 OF
 189**

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W2-203. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2232+97.55 TO 2235+41.92



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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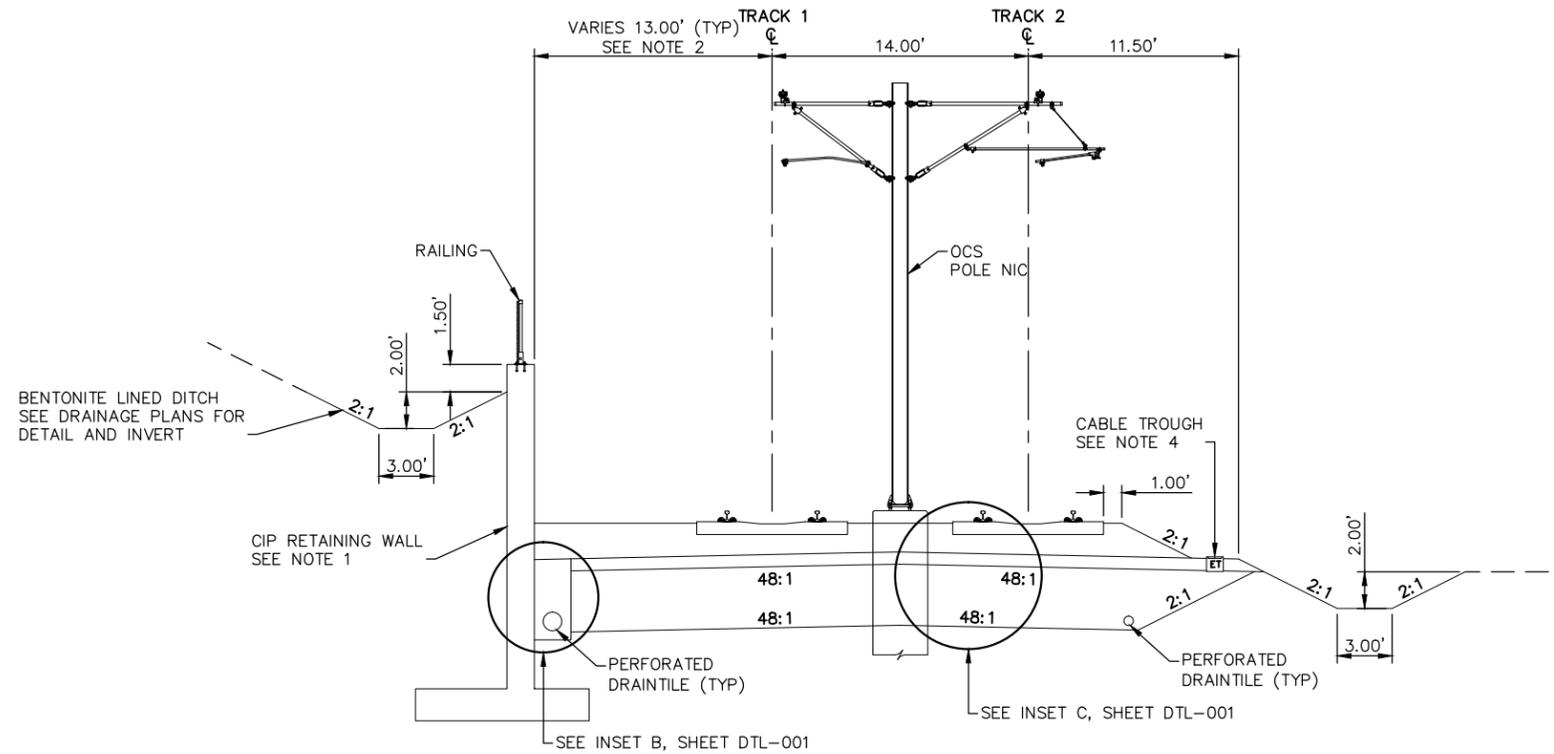
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

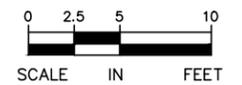
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 008

SHEET
 44
 OF
 189

- NOTES:**
1. SEE RETAINING WALL PLANS FOR DETAILS.
 2. DIMENSION WIDENS FROM 8.50' TO 13.00' BETWEEN STA. 2235+41.92 AND 2235+66.92.
 3. SPECIAL TRACKWORK NOT ILLUSTRATED.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
STA. 2235+41.92 TO 2237+97.41



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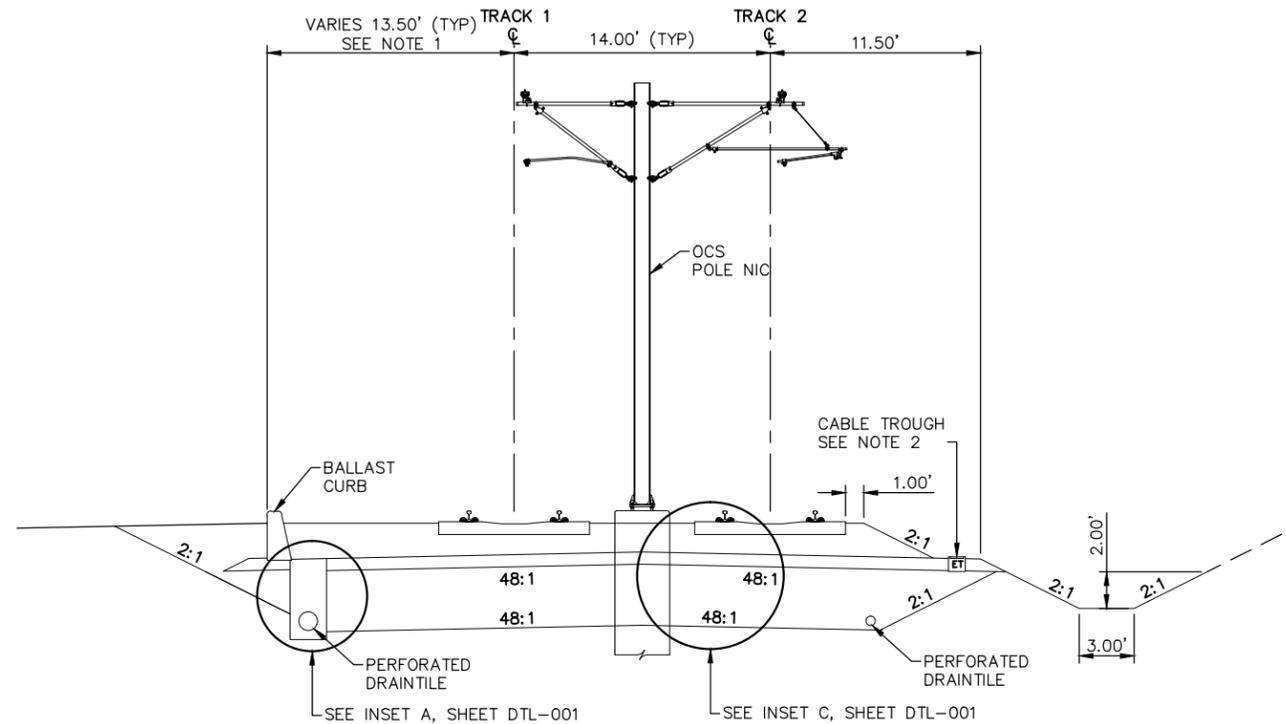
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

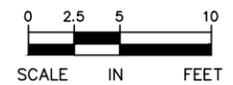
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 009

SHEET
45
OF
189

- NOTES:**
1. DIMENSION NARROWS FROM 13.50' TO 9.00' BETWEEN STA. 2238+20.34 AND 2238+45.34.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.

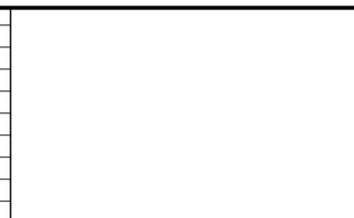


TYPICAL SECTION
 STA. 2237+97.41 TO 2238+45.34



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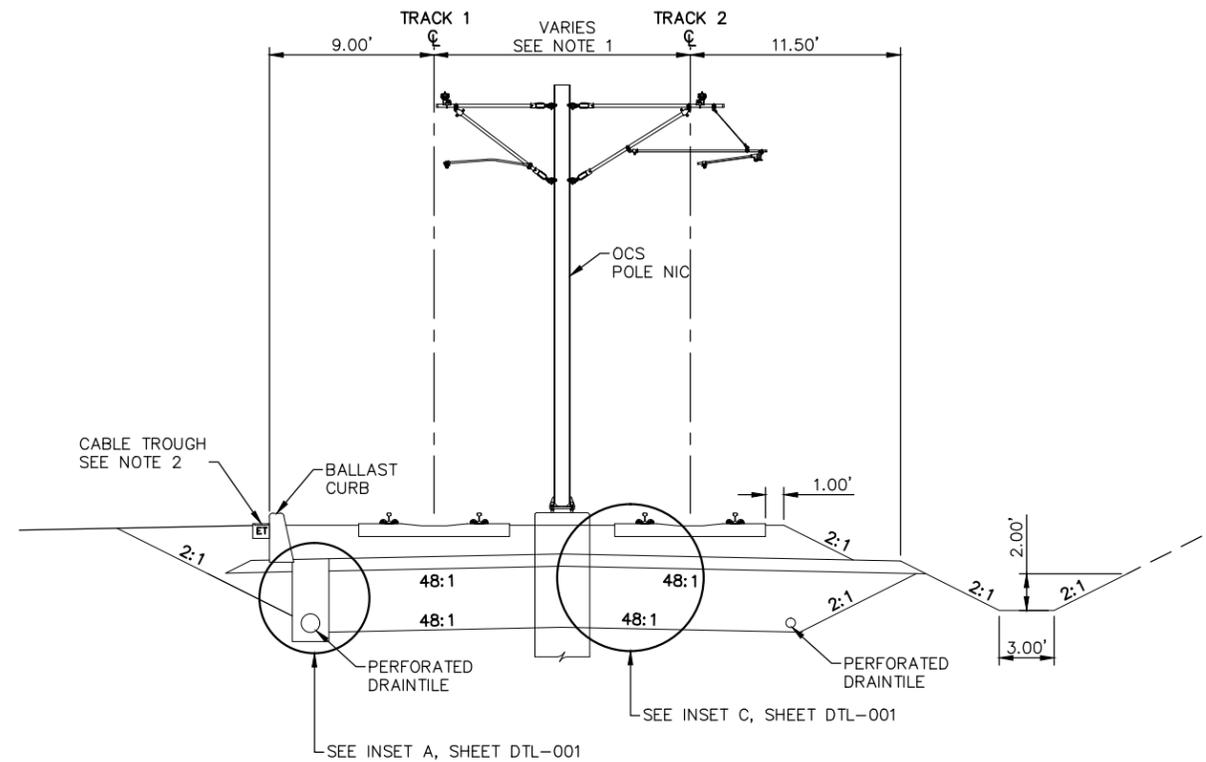


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

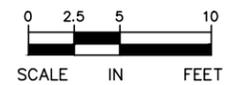
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 010

SHEET
 46
 OF
 189

- NOTES:**
1. TRACK CENTERS WIDEN FROM 14.00' TO 20.00' BETWEEN STA. 2238+63 AND 2240+19.00.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2238+45.34 TO 2240+19.00



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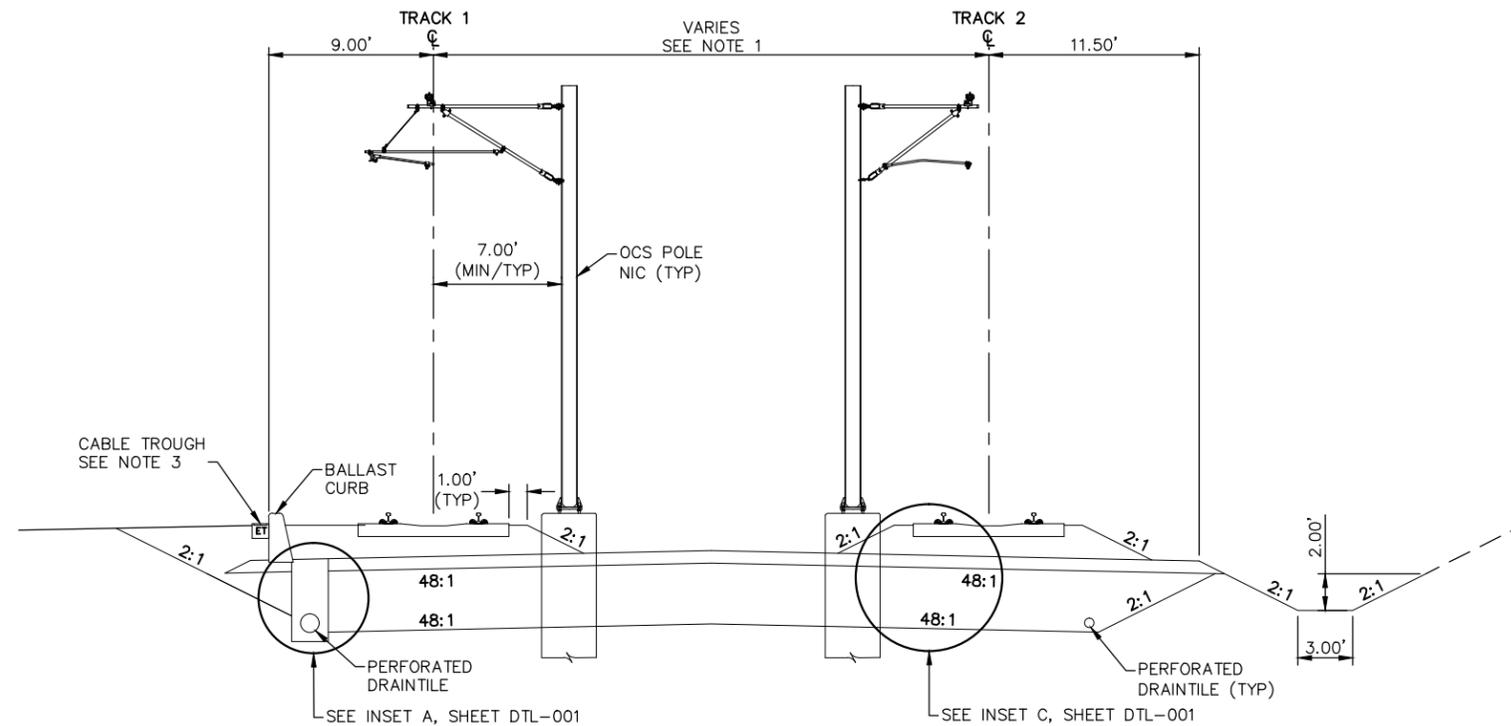


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

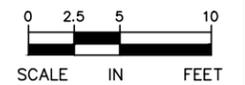
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 011

SHEET
 47
 OF
 189

- NOTES:**
1. TRACK CENTERS WIDEN FROM 20.00' TO 30.38' BETWEEN STA. 2240+19.00 AND 2242+25.85.
 2. SECTION DOES NOT ILLUSTRATE GRADE CROSSING AT 70TH ST W. SEE TRACK PLANS AND DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2240+19.00 TO 2242+26.00



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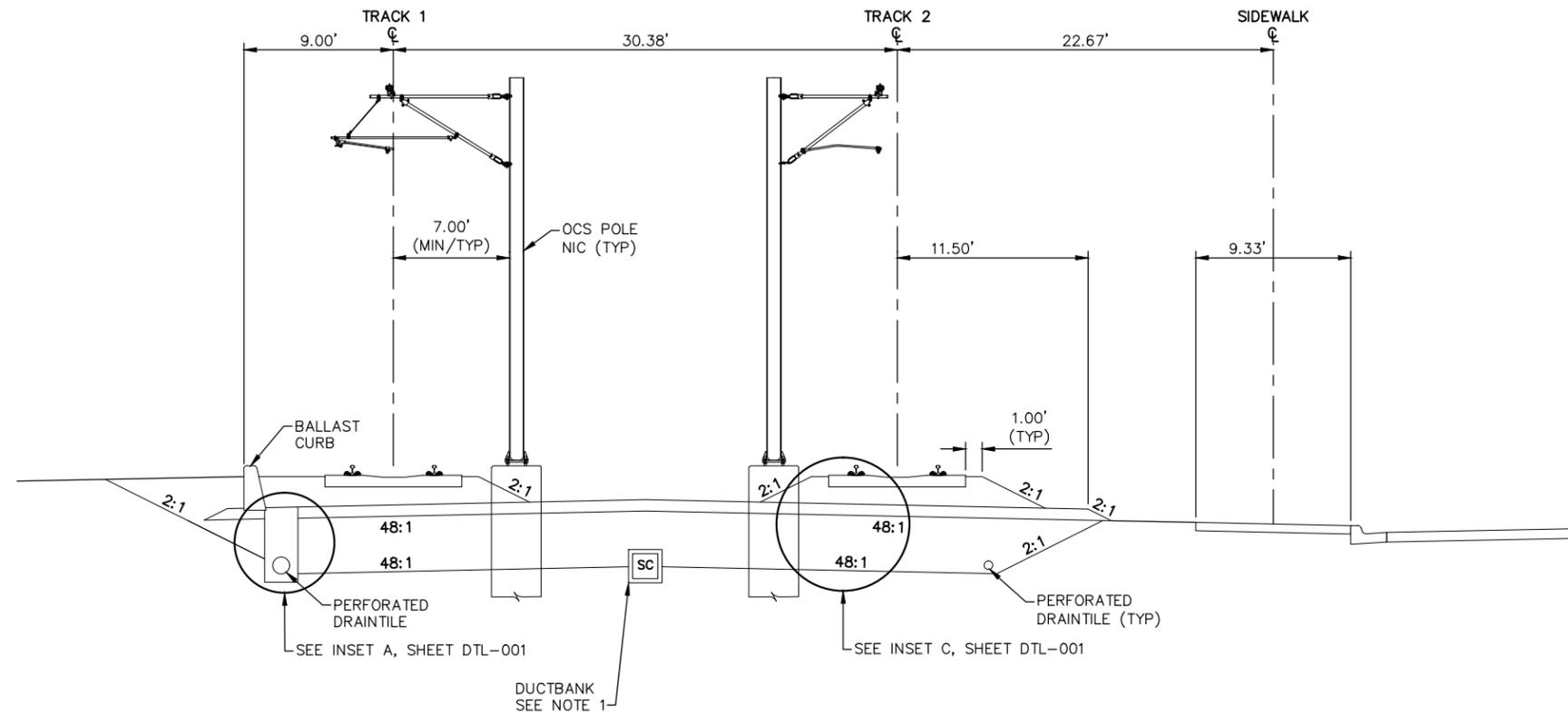


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

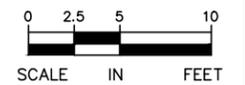
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 012

SHEET 48 OF 189

NOTES:
 1. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2242+26.00 TO 2242+75.85



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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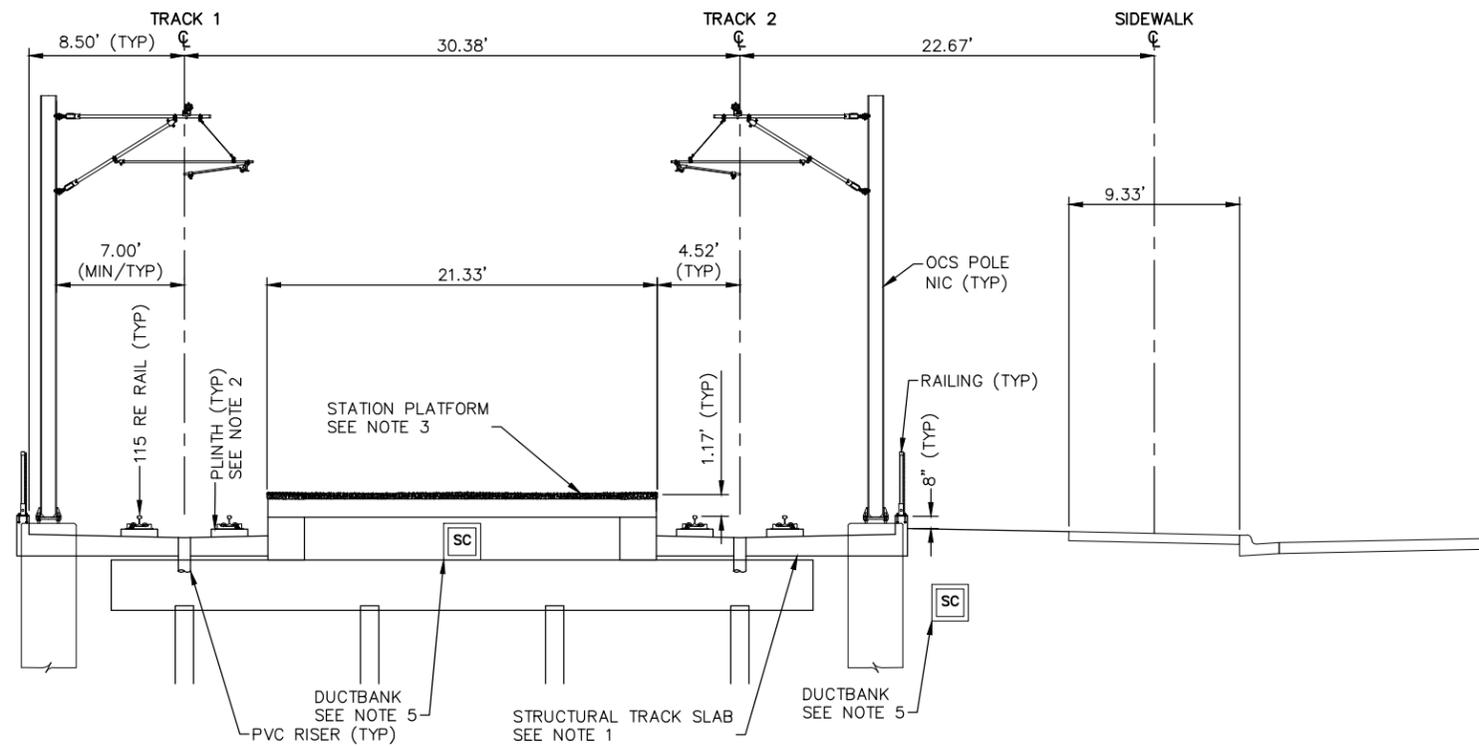


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

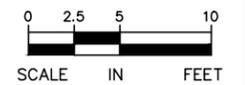
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 013

SHEET
 49
 OF
 189

- NOTES:**
1. SEE STATION PLANS FOR DETAILS.
 2. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 3. SEE STATION PLANS FOR STATION PLATFORM DETAILS.
 4. STATION PLATFORM ENDS AT STA. 2245+45.85.
 5. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION - GOLDEN TRIANGLE STATION
 STA. 2242+75.85 TO 2245+81.08
 SEE NOTE 4



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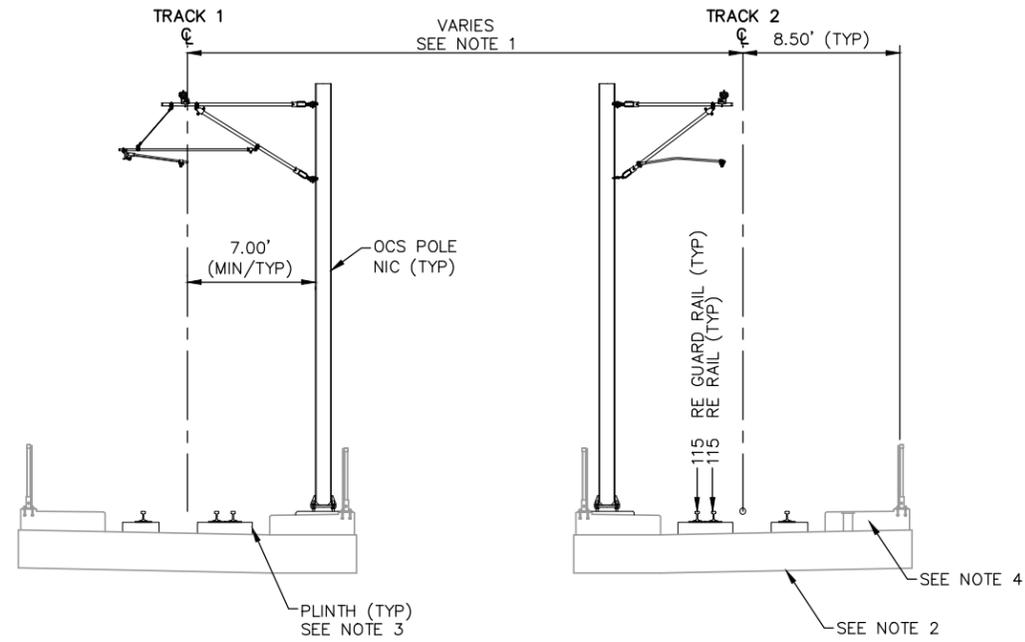


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

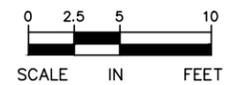
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 014

**SHEET
 50
 OF
 189**

- NOTES:**
1. TRACK CENTERS NARROW FROM 30.38' TO 24.58' BETWEEN STA. 2245+95.94 AND 2248+30.94.
 2. Mn/DOT BRIDGE BR27R34. SEE STRUCTURAL PLANS.
 3. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2245+81.08 TO 2248+30.94



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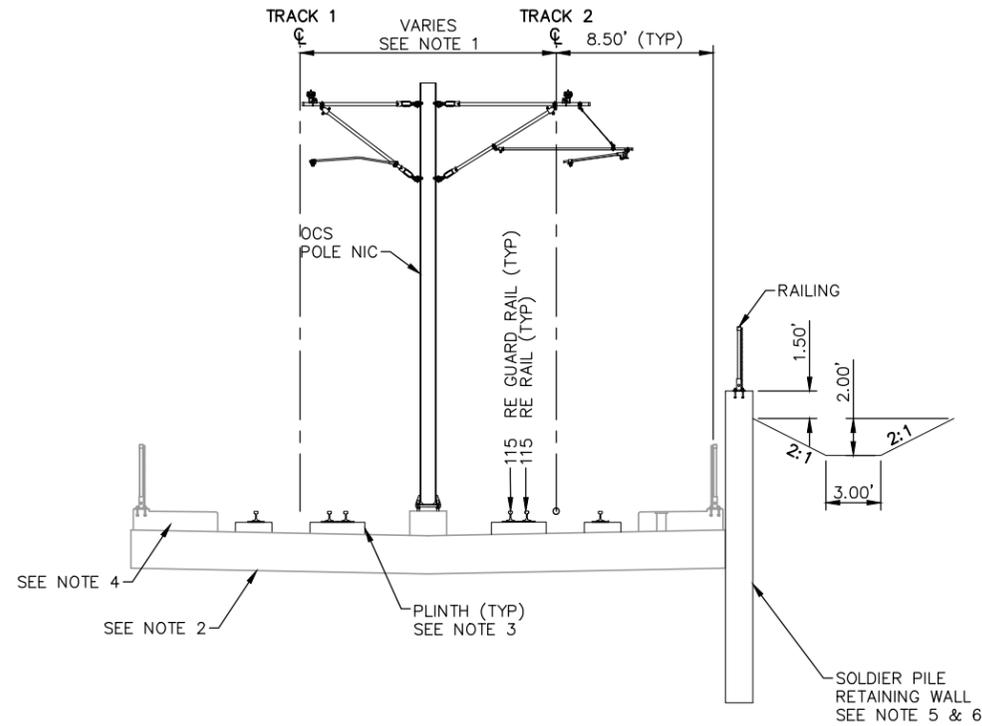


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

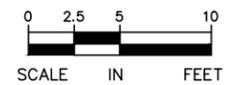
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 015

SHEET
 51
 OF
 189

- NOTES:**
1. TRACK CENTERS NARROW FROM 24.58' TO 14.00' BETWEEN STA. 2248+70.94 AND 2252+50.85.
 2. Mn/DOT BRIDGE BR27R34. SEE STRUCTURAL PLANS.
 3. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 5. SEE RETAINING WALL PLANS FOR DETAILS.
 6. RETAINING WALL STARTS AT STA. 2248+75.00 AND ENDS AT STA. 2250+50.00.



TYPICAL SECTION
STA. 2248+30.94 TO 2253+50.95



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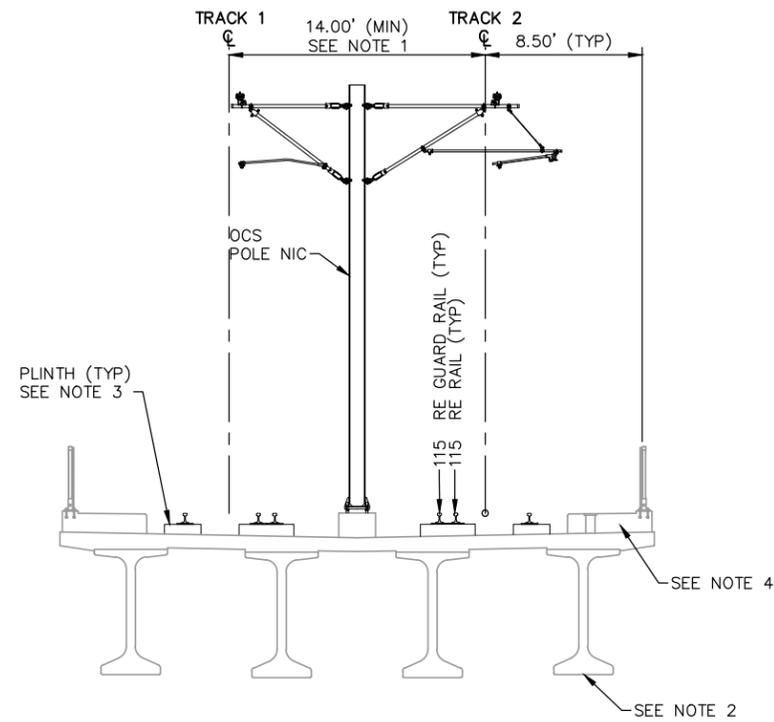


**CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS**

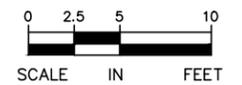
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 016

**SHEET
52
OF
189**

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W2-207. SEE TRACK PLANS.
 2. Mn/DOT BRIDGE BR27R34. SEE STRUCTURAL PLANS.
 3. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2253+50.94 TO 2264+32.94



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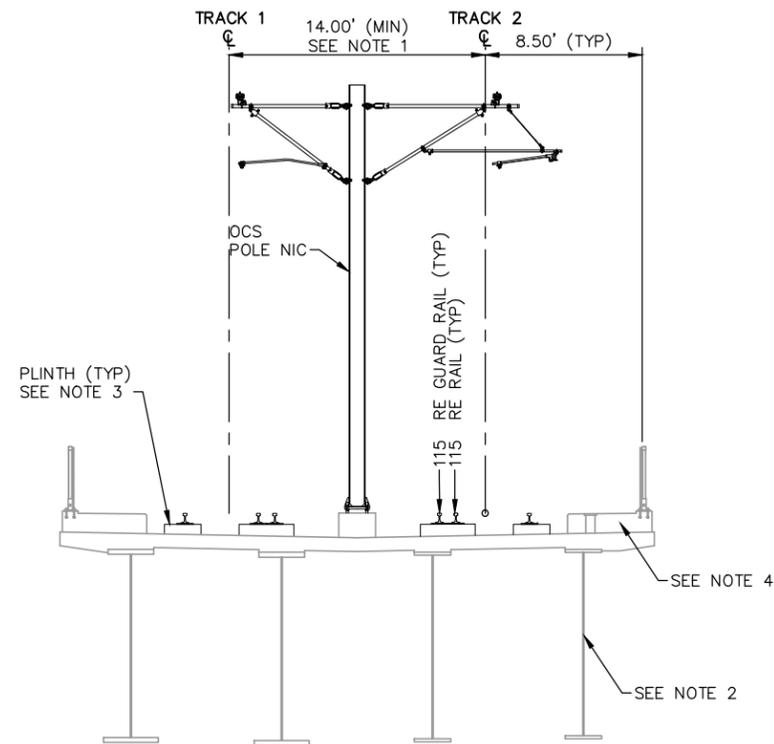


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

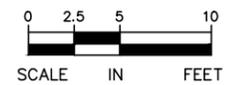
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 017

SHEET
 53
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W2-207. SEE TRACK PLANS.
 2. Mn/DOT BRIDGE BR27R34. SEE STRUCTURAL PLANS.
 3. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2264+32.95 TO 2270+67.93



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60% SUBMISSION - 09/28/15

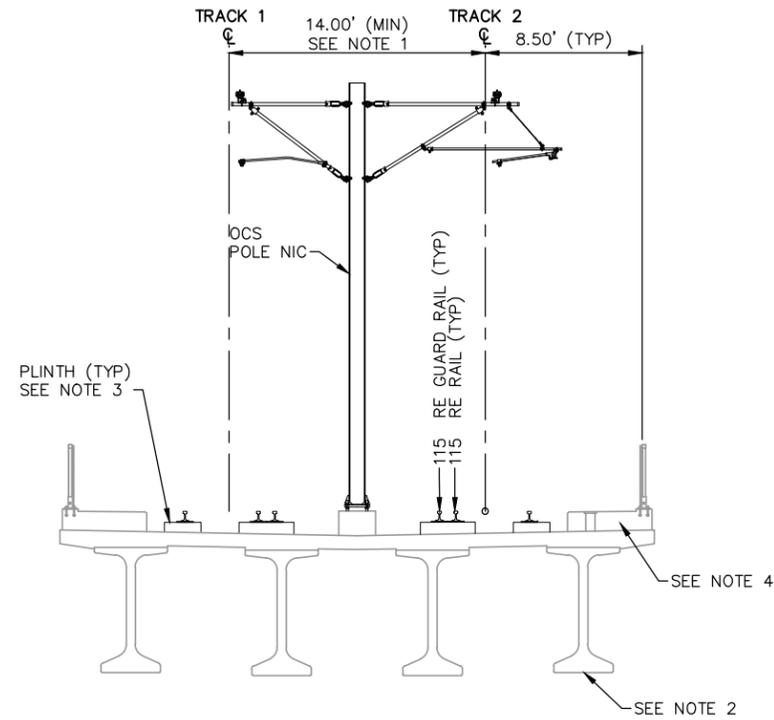


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

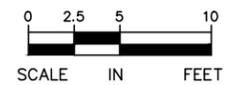
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 018

SHEET
 54
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W2-207. SEE TRACK PLANS.
 2. Mn/DOT BRIDGE BR27R34. SEE STRUCTURAL PLANS.
 3. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2270+67.93 TO 2275+00.27



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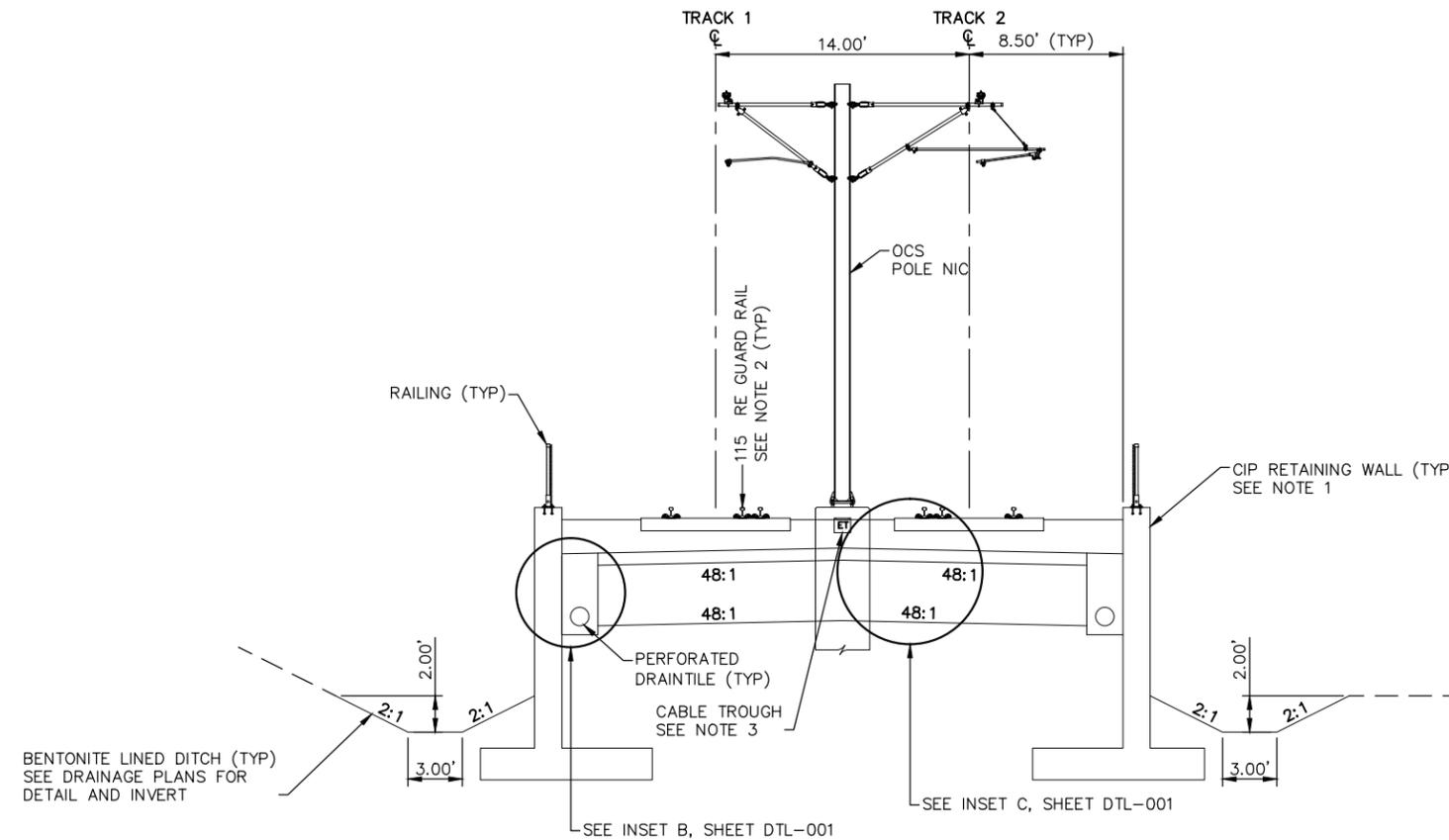


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

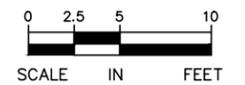
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 019

SHEET
 55
 OF
 189

- NOTES:**
1. SEE RETAINING WALL PLANS FOR DETAILS.
 2. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
STA. 2275+00.27 TO 2280+33.21



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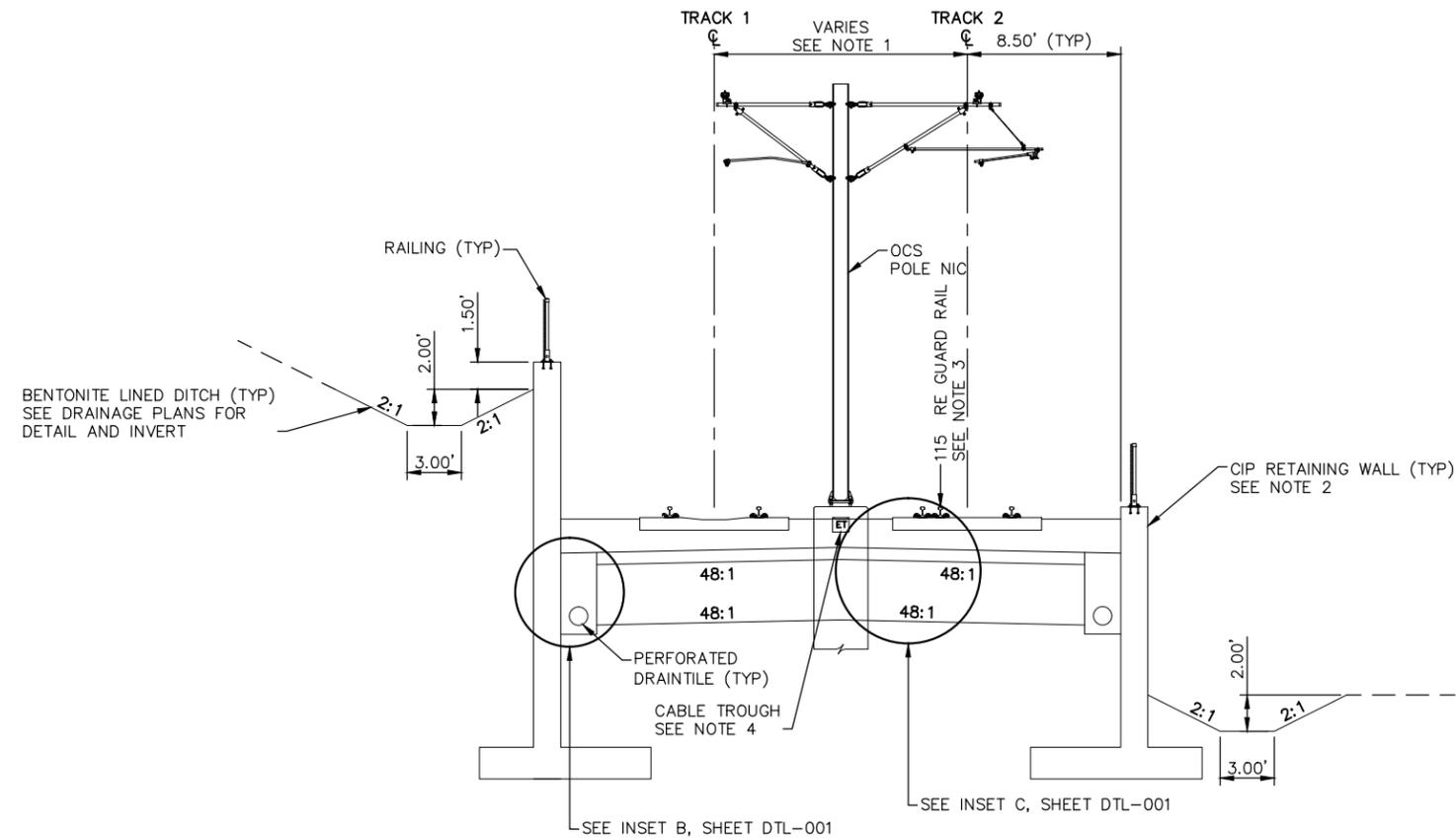


**CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS**

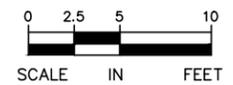
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 020

SHEET
56
OF
189

- NOTES:**
1. TRACK CENTERS WIDEN FROM 14.00' TO 14.05' BETWEEN STA. 2281+71.67' AND 2282+50.60.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2280+33.21 TO 2282+50.60



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60% SUBMISSION - 09/28/15

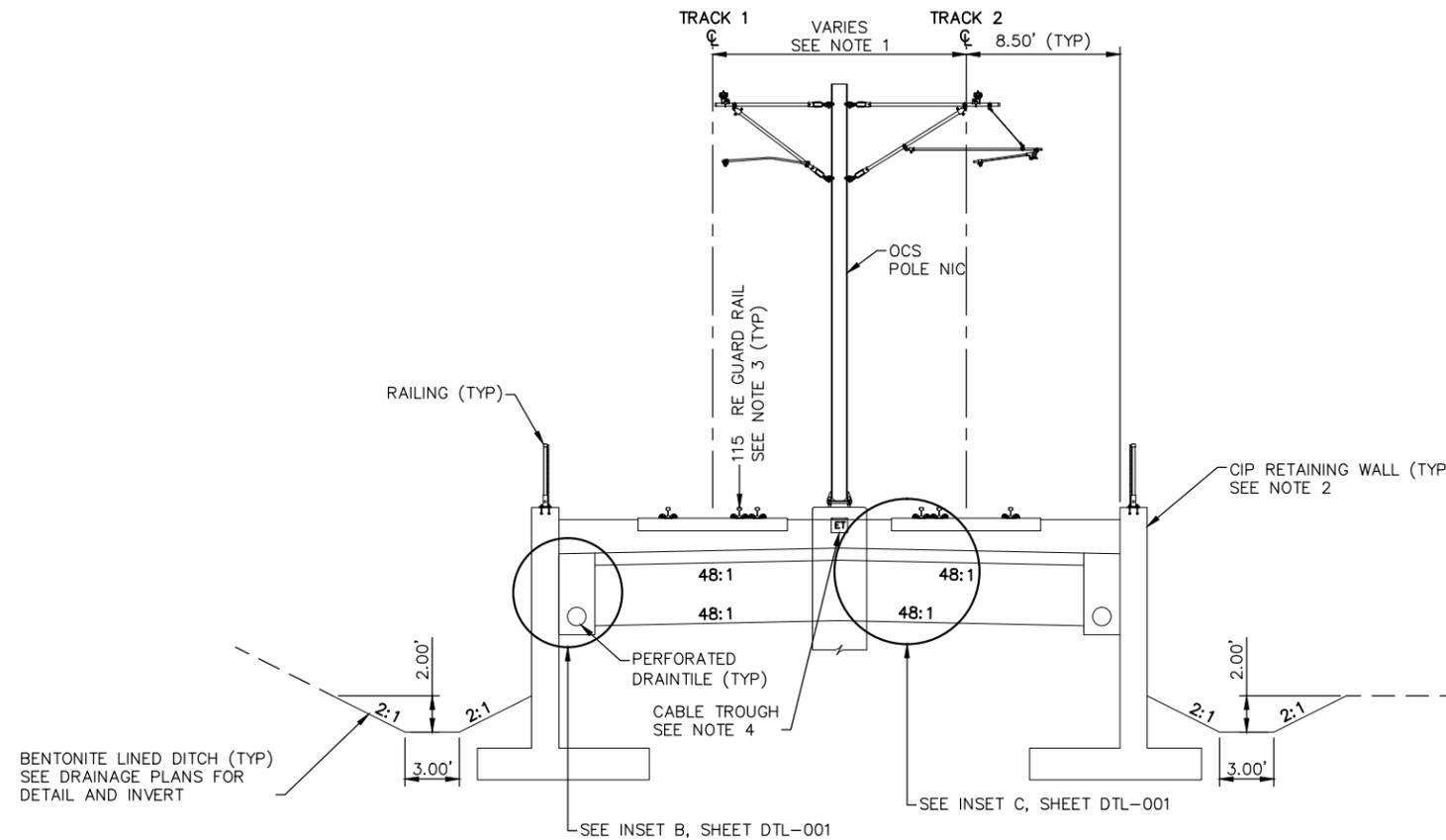


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

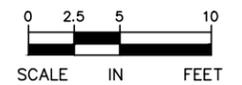
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 021

SHEET
 57
 OF
 189

- NOTES:**
1. TRACK CENTERS WIDEN FROM 14.05' TO 16.92' BETWEEN STA. 2282+50.60 TO 2286+41.74.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
STA. 2282+50.60 TO 2286+41.74



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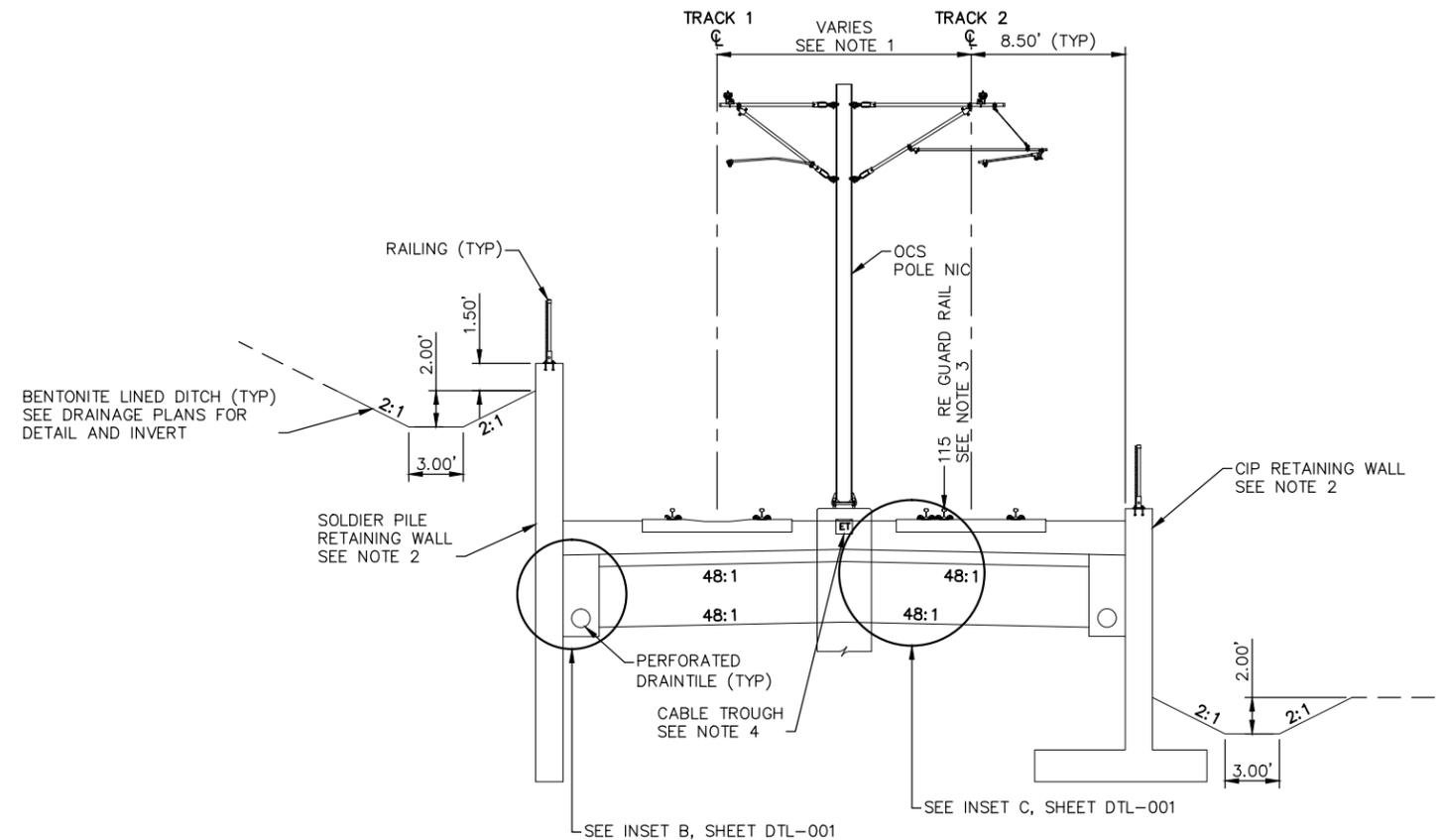


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

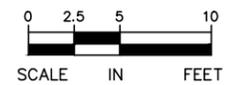
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 022

SHEET
58
OF
189

- NOTES:**
1. TRACK CENTERS WIDEN FROM 16.92' TO 24.06' BETWEEN STA. 2281+71.67' AND 2287+89.56.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2286+41.74 TO 2287+89.56



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60% SUBMISSION - 09/28/15

METROPOLITAN COUNCIL

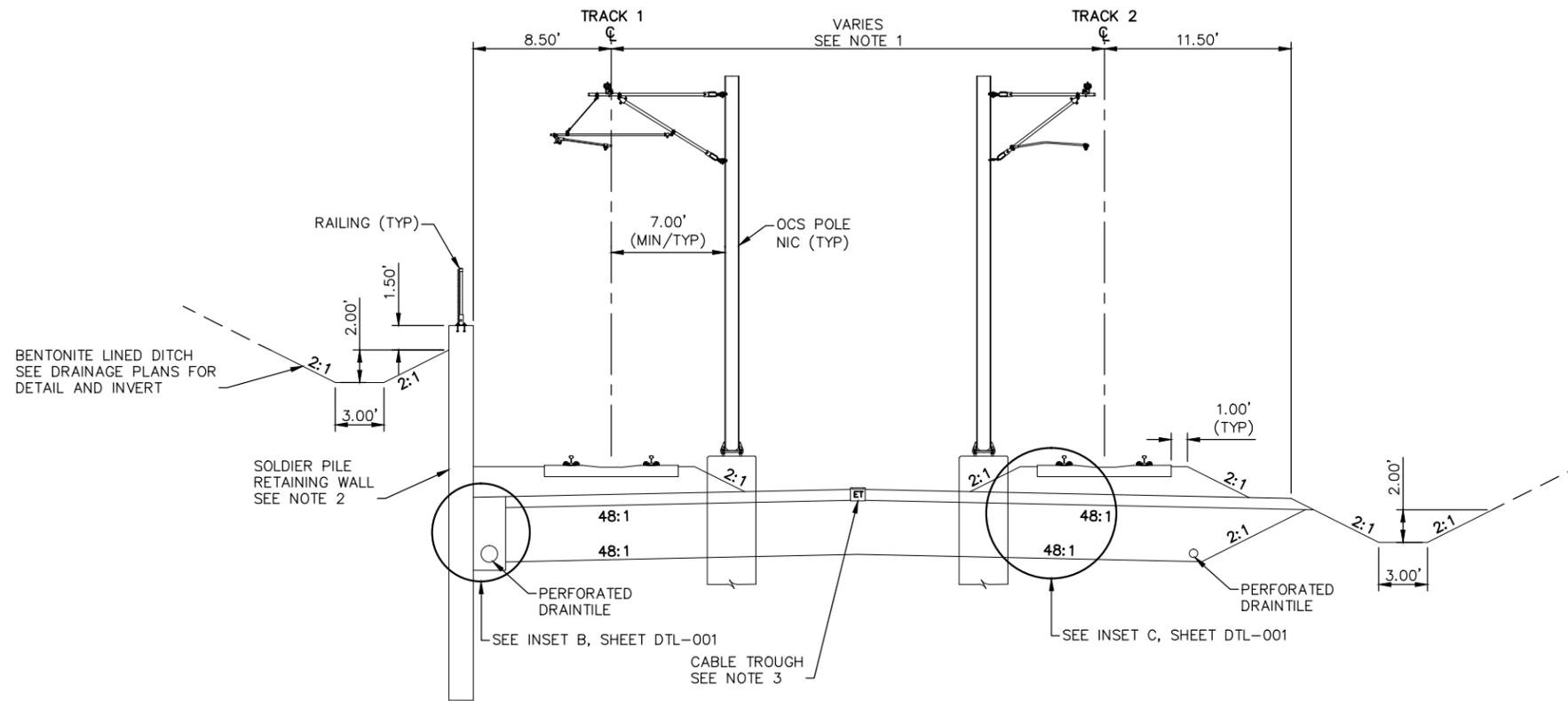
SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

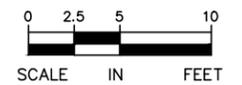
DISCIPLINE: **TRACK** SHEET NAME: **W2-TRK-TYP - 023**

SHEET
59
OF
189

- NOTES:**
1. TRACK CENTERS WIDEN FROM 24.06' TO 29.64' BETWEEN STA. 2287+89.56 TO 2289+84.63.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
STA. 2287+89.56 TO 2289+84.63



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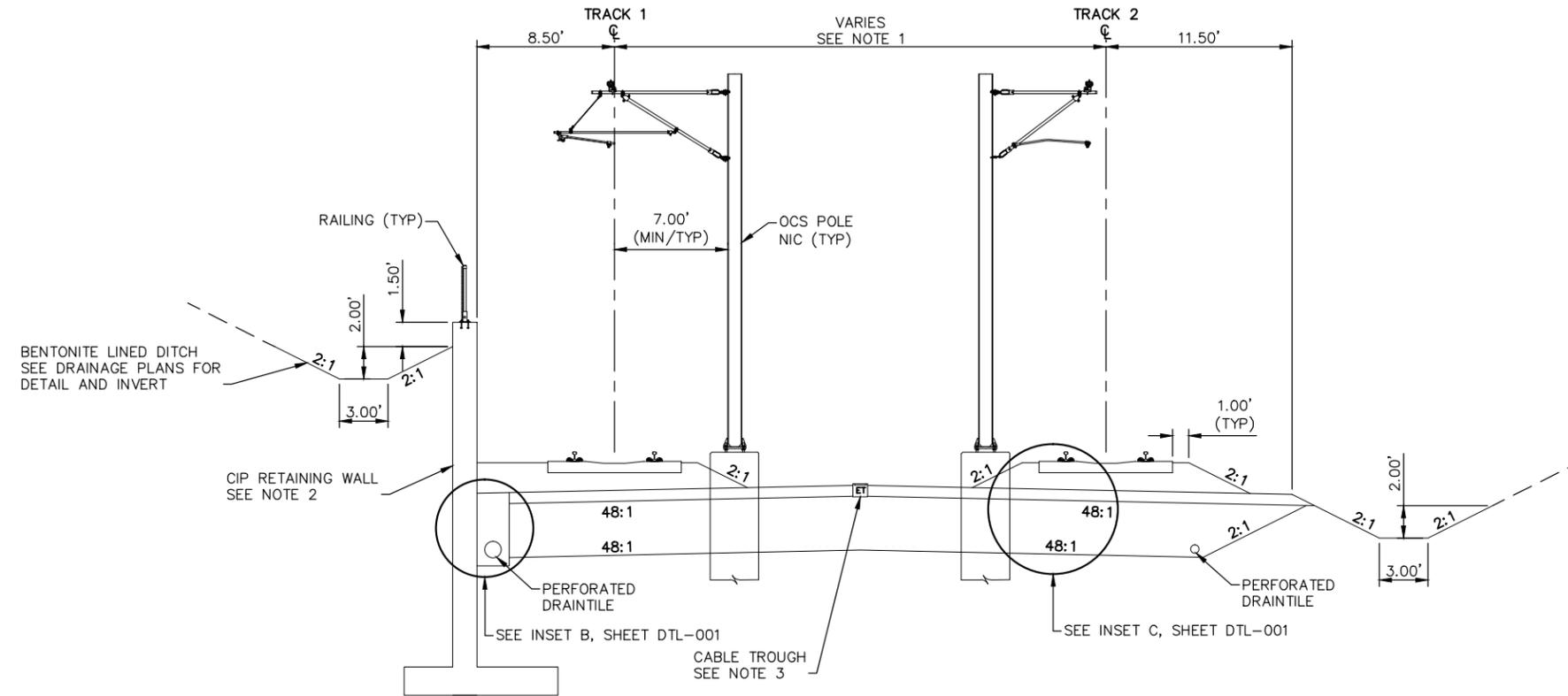


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

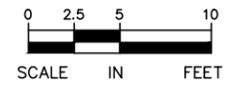
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 024

SHEET
60
OF
189

- NOTES:**
1. TRACK CENTERS WIDEN FROM 29.64' TO 30.42' BETWEEN STA. 2287+89.56 TO 2290+55.97.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2289+84.63 TO 2290+55.97



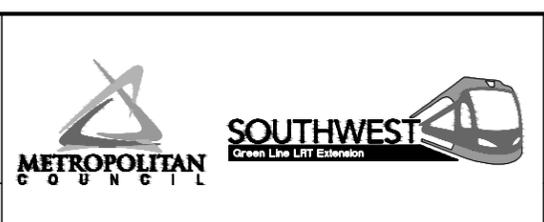
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60% SUBMISSION - 09/28/15

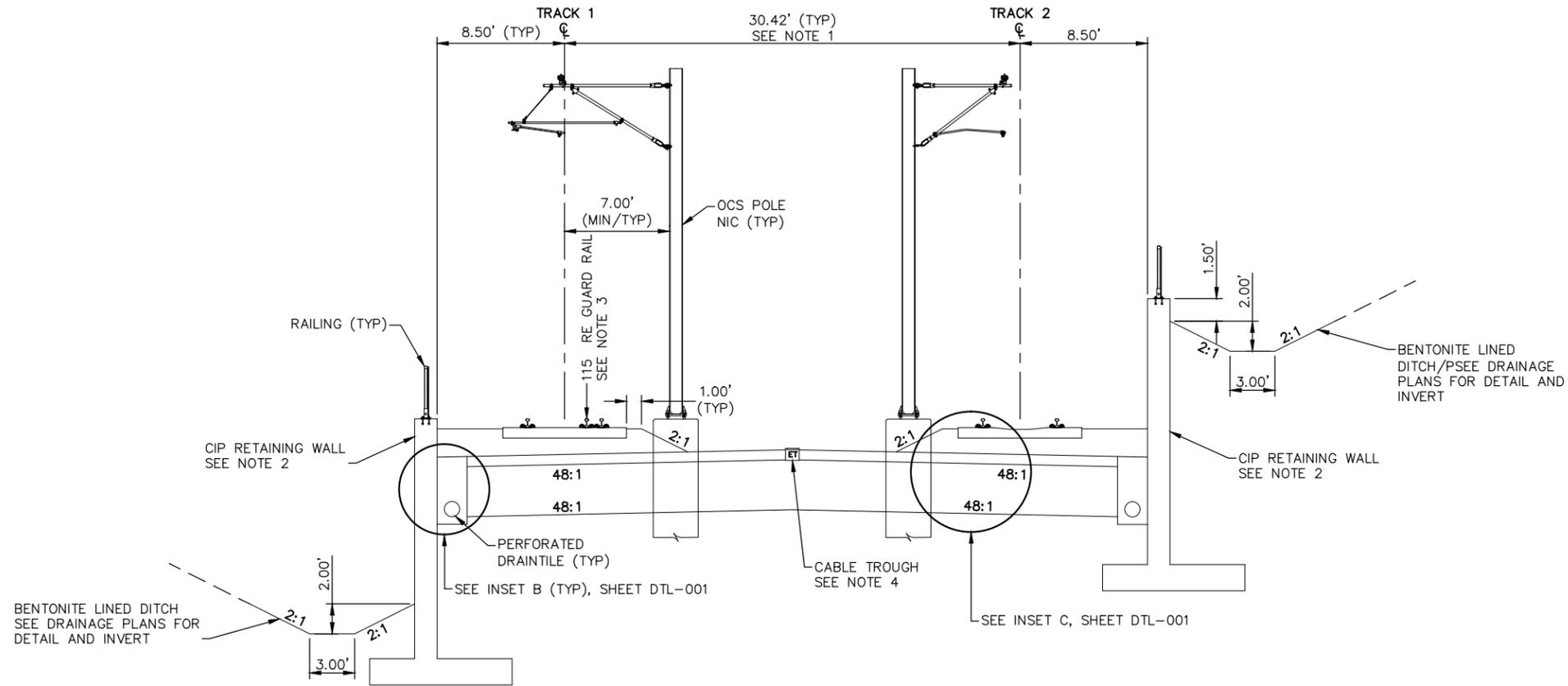


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

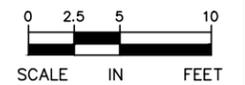
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 025

SHEET
 61
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W2-208B. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2290+55.97 TO 2291+56.73



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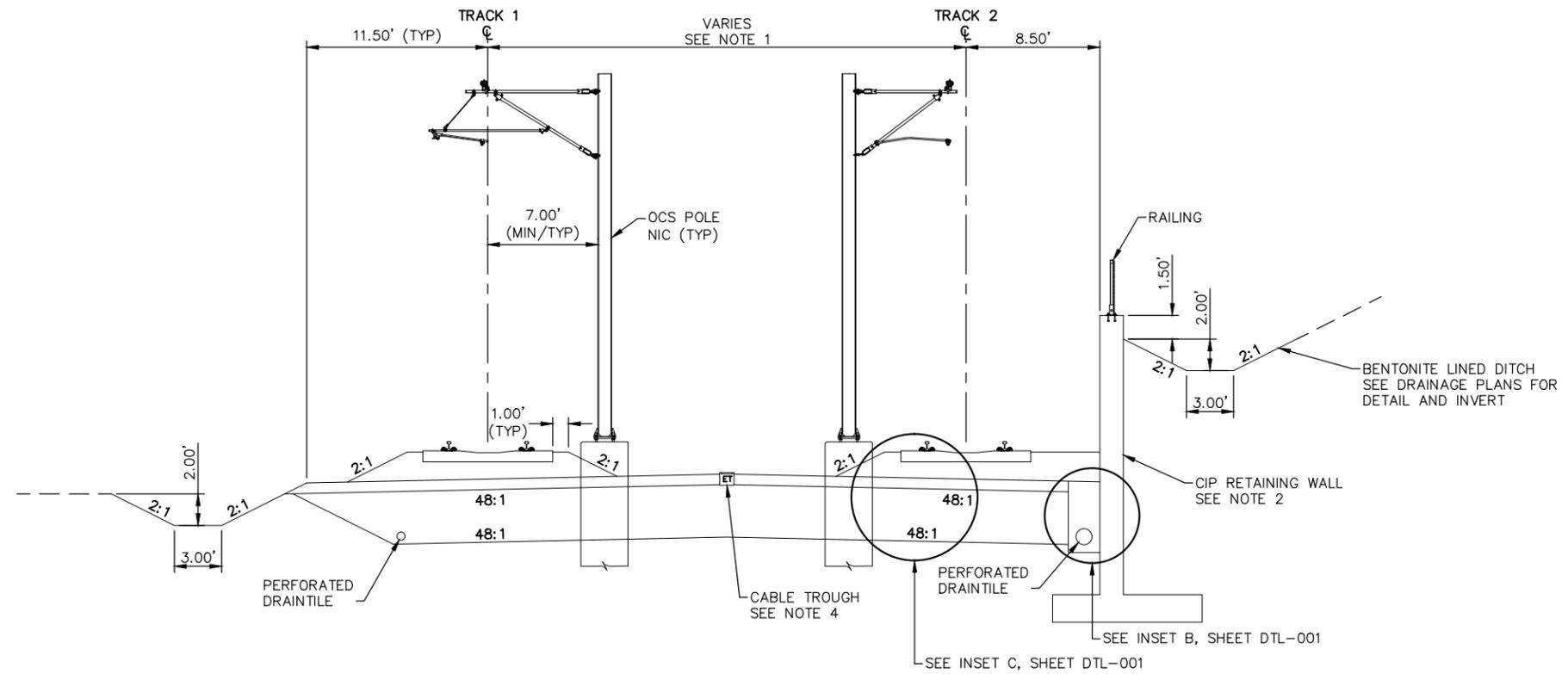
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

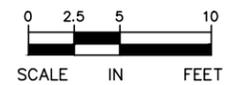
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 026

SHEET
 62
 OF
 189

- NOTES:**
1. TRACK CENTERS NARROW FROM 30.42' TO 30.38' FROM STA. 2291+56.00 TO 2291+59.86.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. TPSS SITE NOT DEPICTED BETWEEN STA. 2293+26 AND STA. 2294+06.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
STA. 2291+56.73 TO 2294+38.00



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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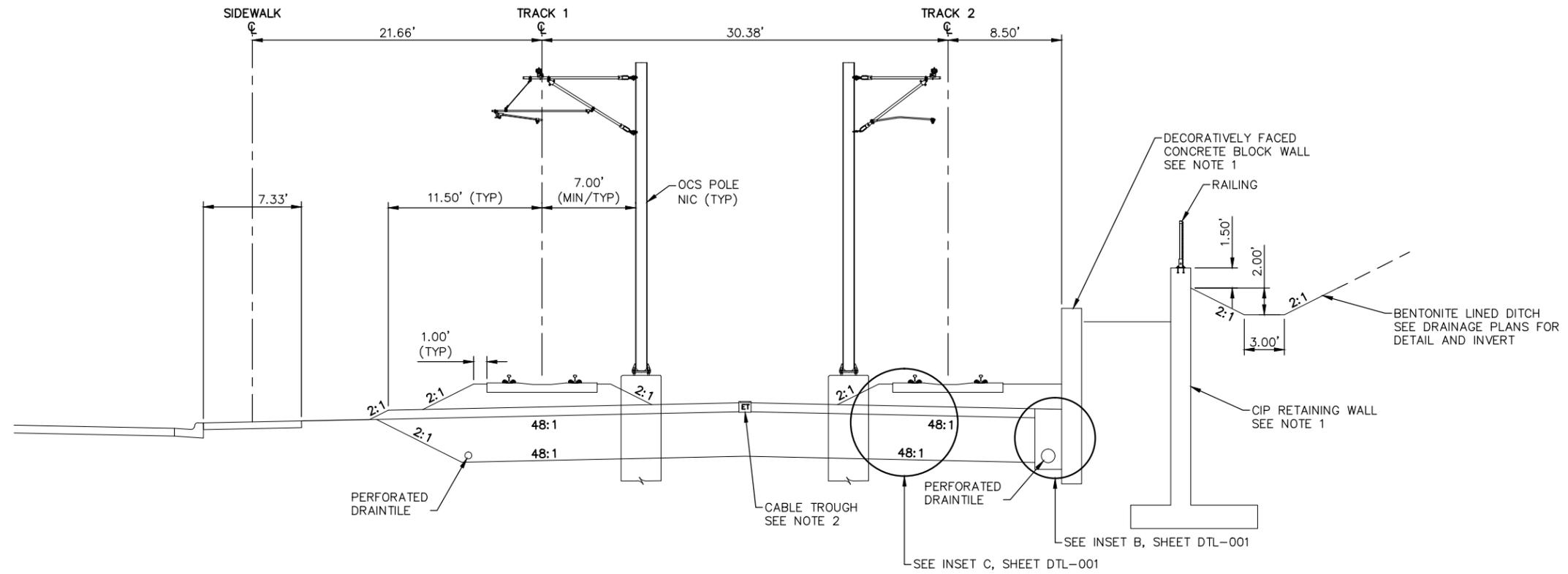
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

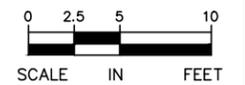
DISCIPLINE: **TRACK** SHEET NAME: **W2-TRK-TYP - 027**

SHEET
63
OF
189

- NOTES:**
1. SEE RETAINING WALL PLANS FOR DETAILS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2294+38.00 TO 2295+80.80



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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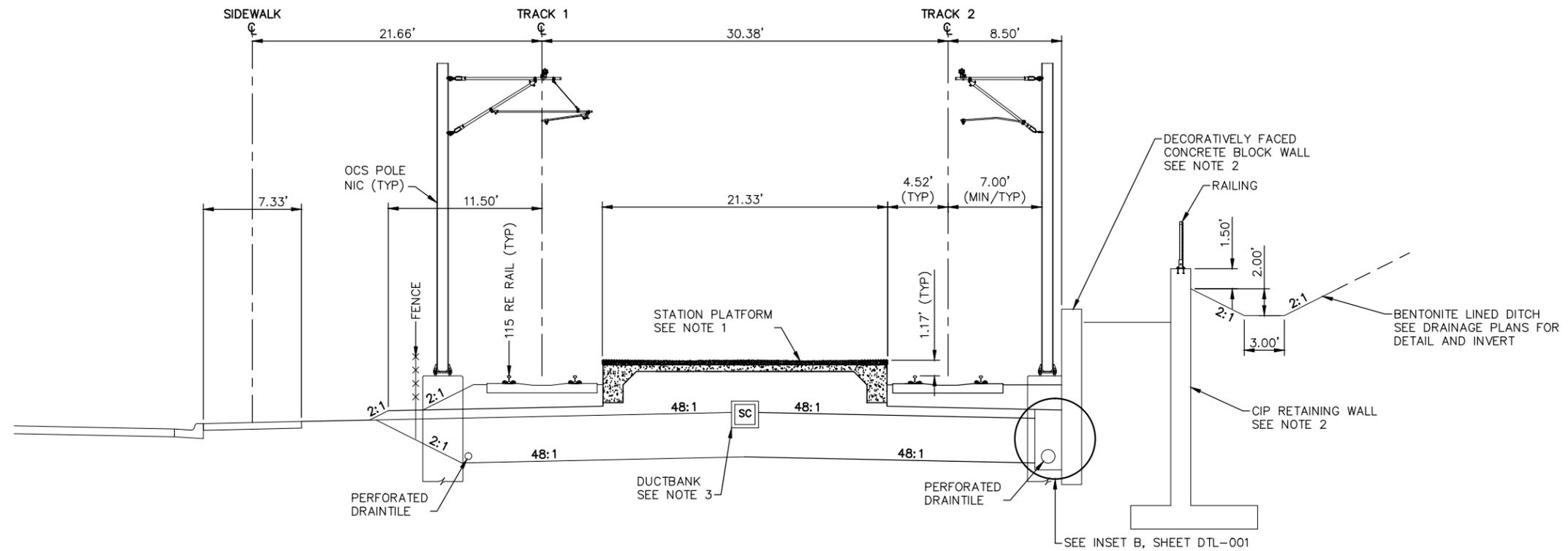
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

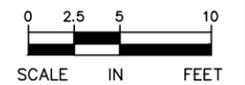
DISCIPLINE: **TRACK** SHEET NAME: **W2-TRK-TYP - 028**

SHEET
 64
 OF
 189

- NOTES:**
1. SEE STATION PLANS FOR STATION PLATFORM DETAILS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION – CITY WEST STATION
 STA. 2295+80.80 TO 2298+50.80



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60% SUBMISSION - 09/28/15

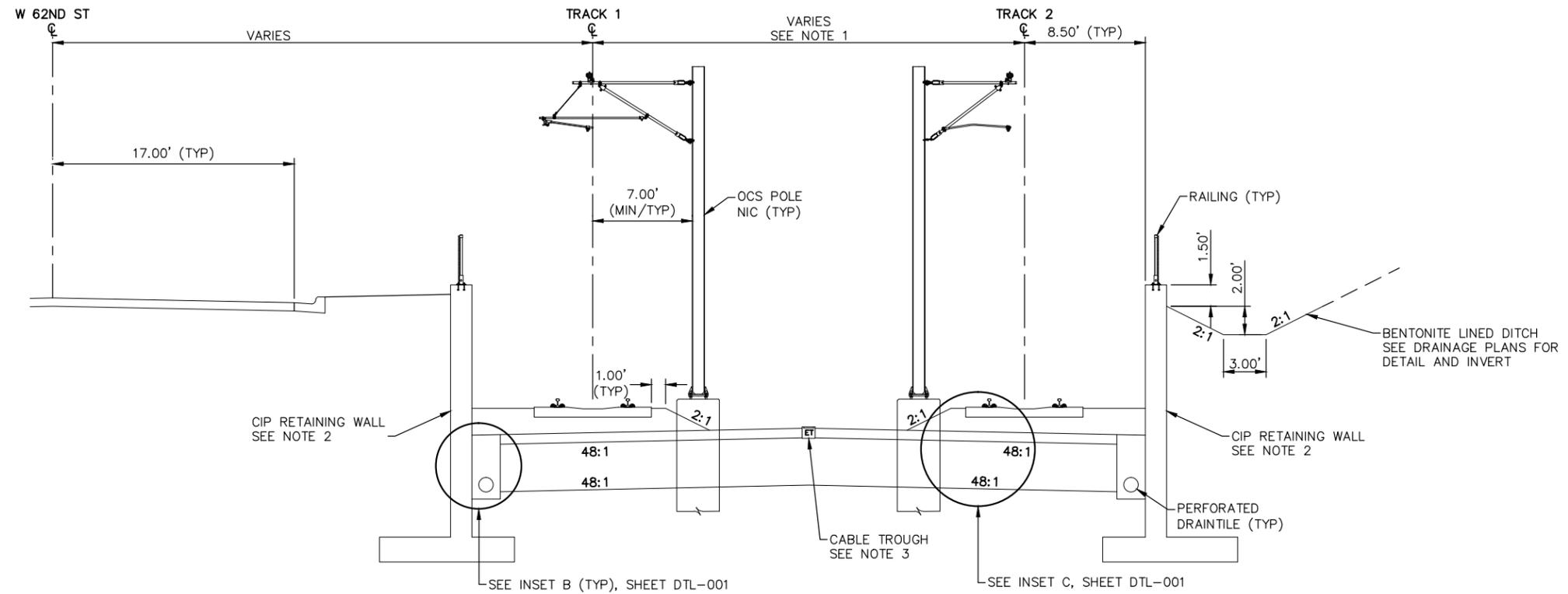


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

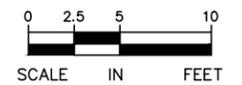
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 029

SHEET
 65
 OF
 189

- NOTES:**
1. TRACK CENTERS NARROW FROM 30.38' TO 20.00' BETWEEN STA. 2299+45.92 AND 2302+21.00.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
STA. 2299+45.92 TO 2302+21.00



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60% SUBMISSION - 09/28/15

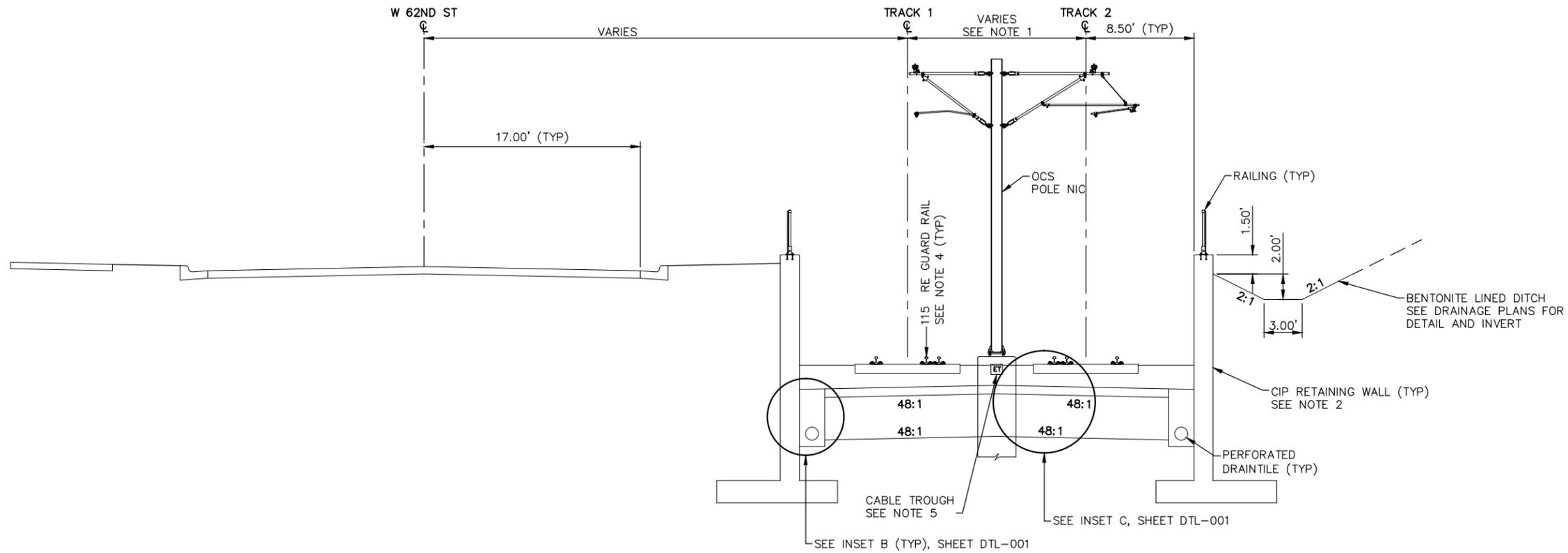


**CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS**

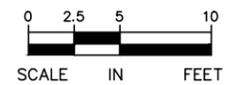
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 031

**SHEET
67
OF
189**

- NOTES:**
1. TRACK CENTERS NARROW FROM 20.00' TO 19.50' BETWEEN STA. 2302+21.00 AND 2302+89.89.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE DRAINAGE PLANS FOR GUIDEWAY DRAINAGE SCHEMATIC AT PORTAL AREA.
 4. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 5. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
STA. 2302+21.00 TO 2305+00.00



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60% SUBMISSION - 09/28/15

METROPOLITAN COUNCIL

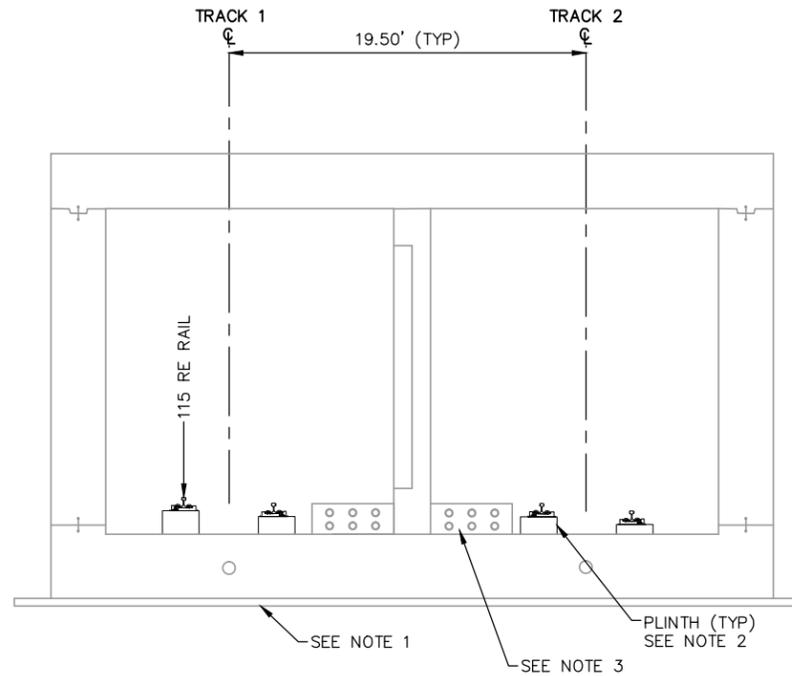
SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

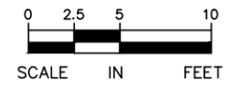
DISCIPLINE: **TRACK** SHEET NAME: **W2-TRK-TYP - 032**

SHEET
68
OF
189

- NOTES:**
1. Mn/DOT BRIDGE CBR27W33. SEE TUNNEL PLANS.
 2. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2305+00.00 TO 2310+82.00



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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60% SUBMISSION - 09/28/15

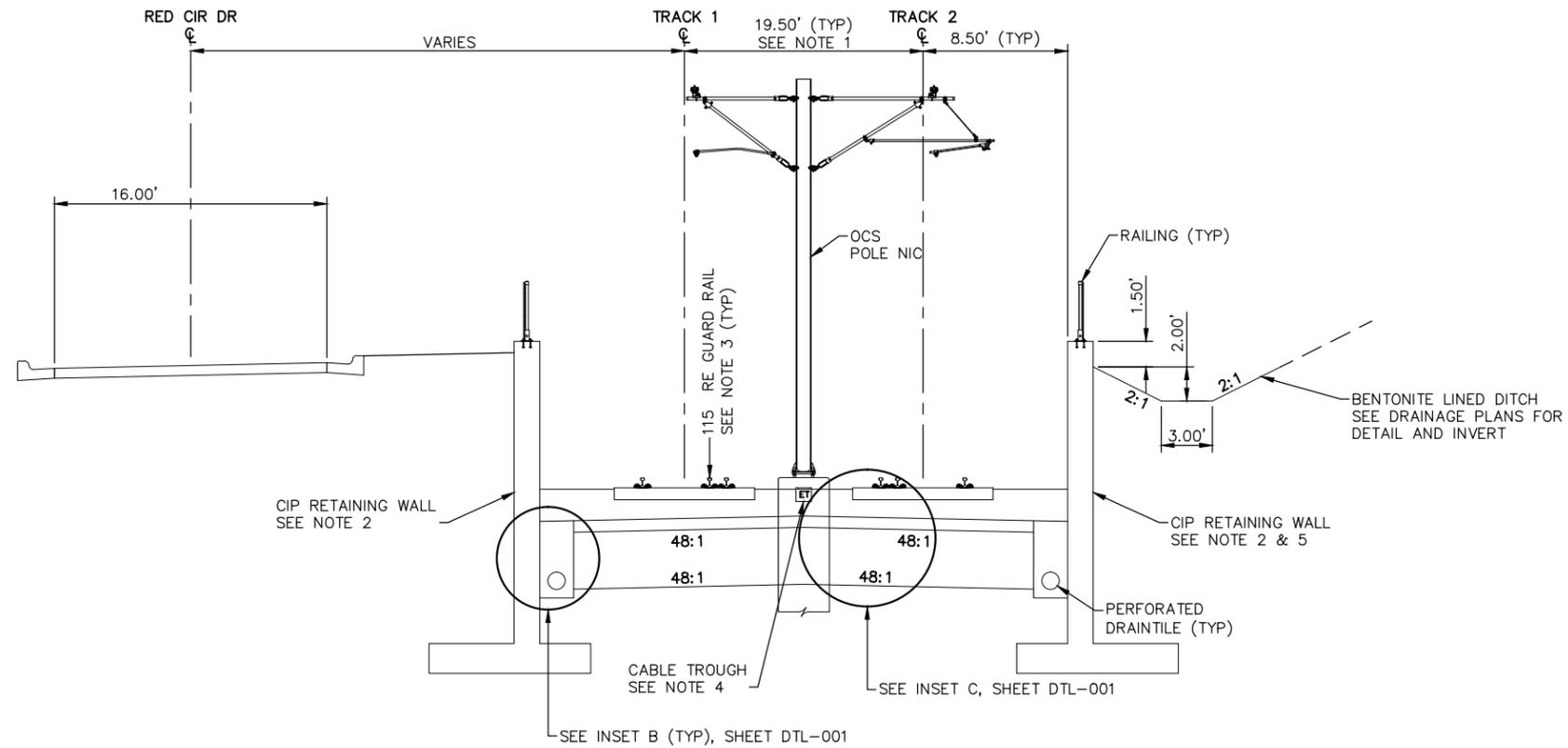


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

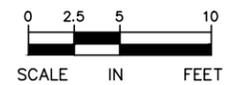
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 033

SHEET
 69
 OF
 189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W2-211. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 5. RETAINING WALL ENDS AT STA. 2312+55.80.



TYPICAL SECTION
STA. 2310+82.00 TO 2313+50.00



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

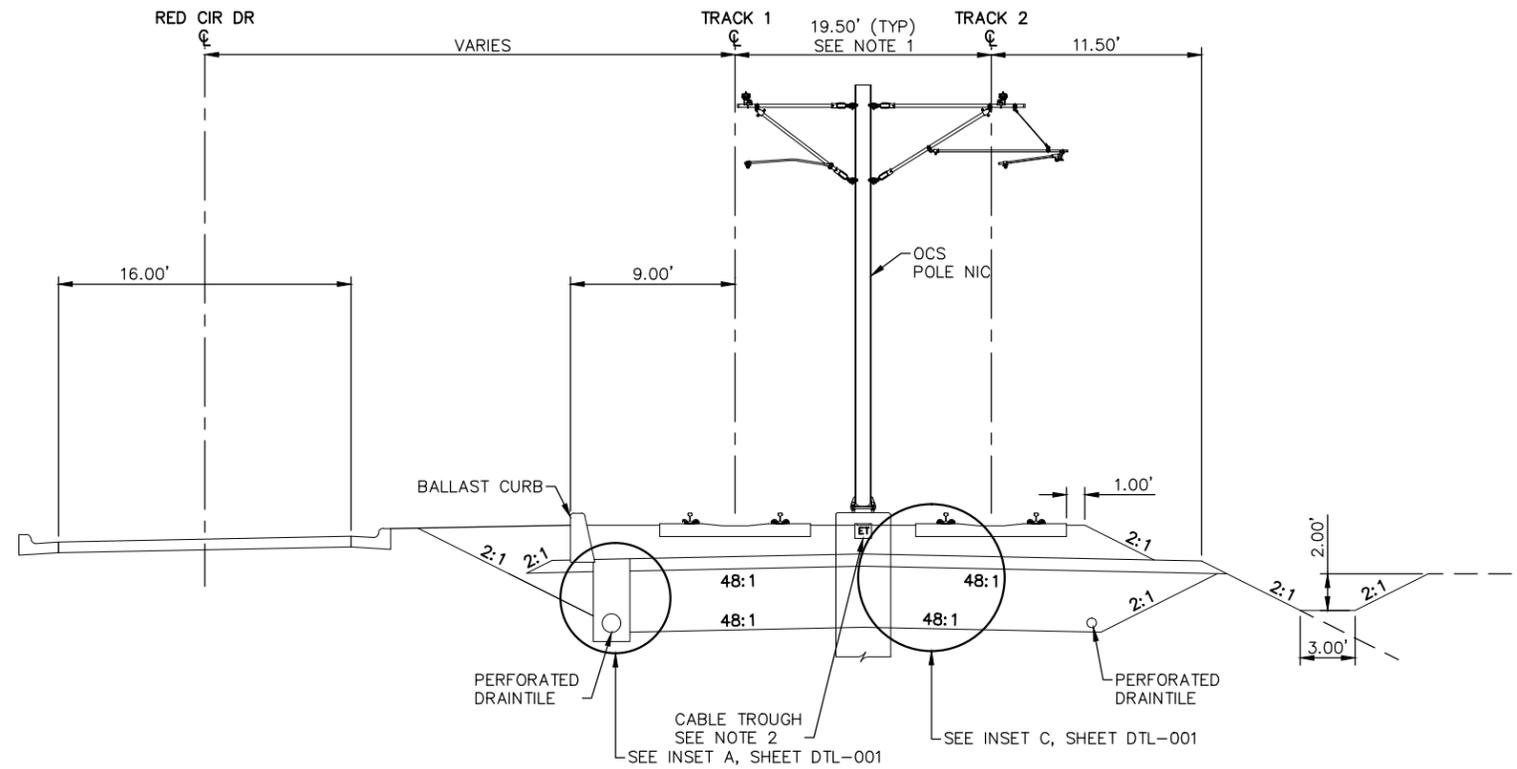


**CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS**

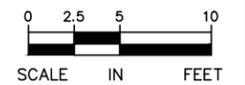
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 034

SHEET
70
OF
189

- NOTES:**
1. TRACK CENTERS VARY IN CURVE W2-212. SEE TRACK PLANS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.

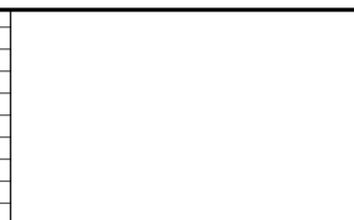


TYPICAL SECTION
 STA. 2313+50.00 TO 2314+77.93



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

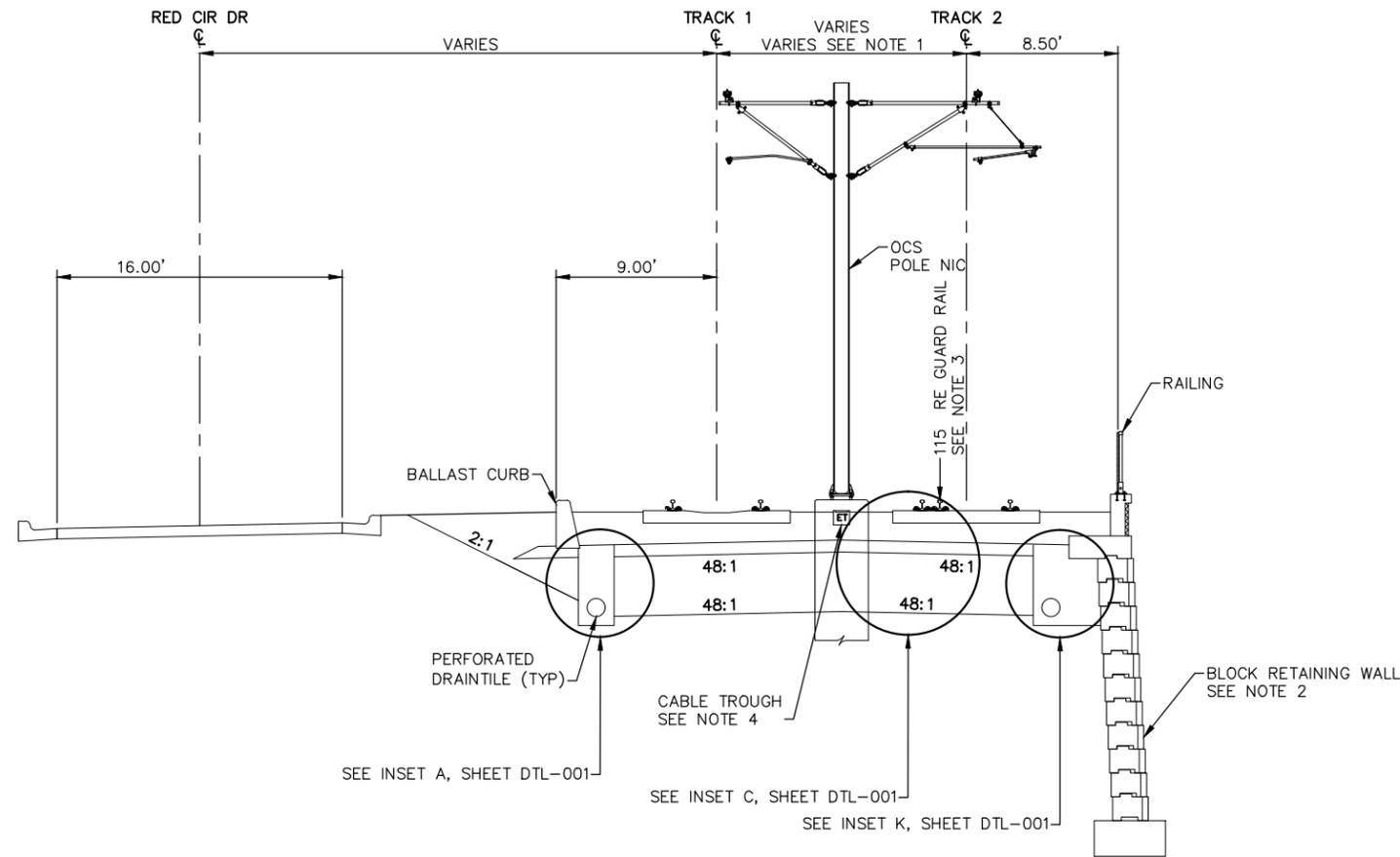


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

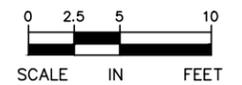
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 035

**SHEET
 71
 OF
 189**

- NOTES:**
1. TRACK CENTERS NARROW FROM 19.50' TO 19.28' BETWEEN STA. 2314+78.00 AND 2315+55.74.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2314+77.93 TO 2315+55.74



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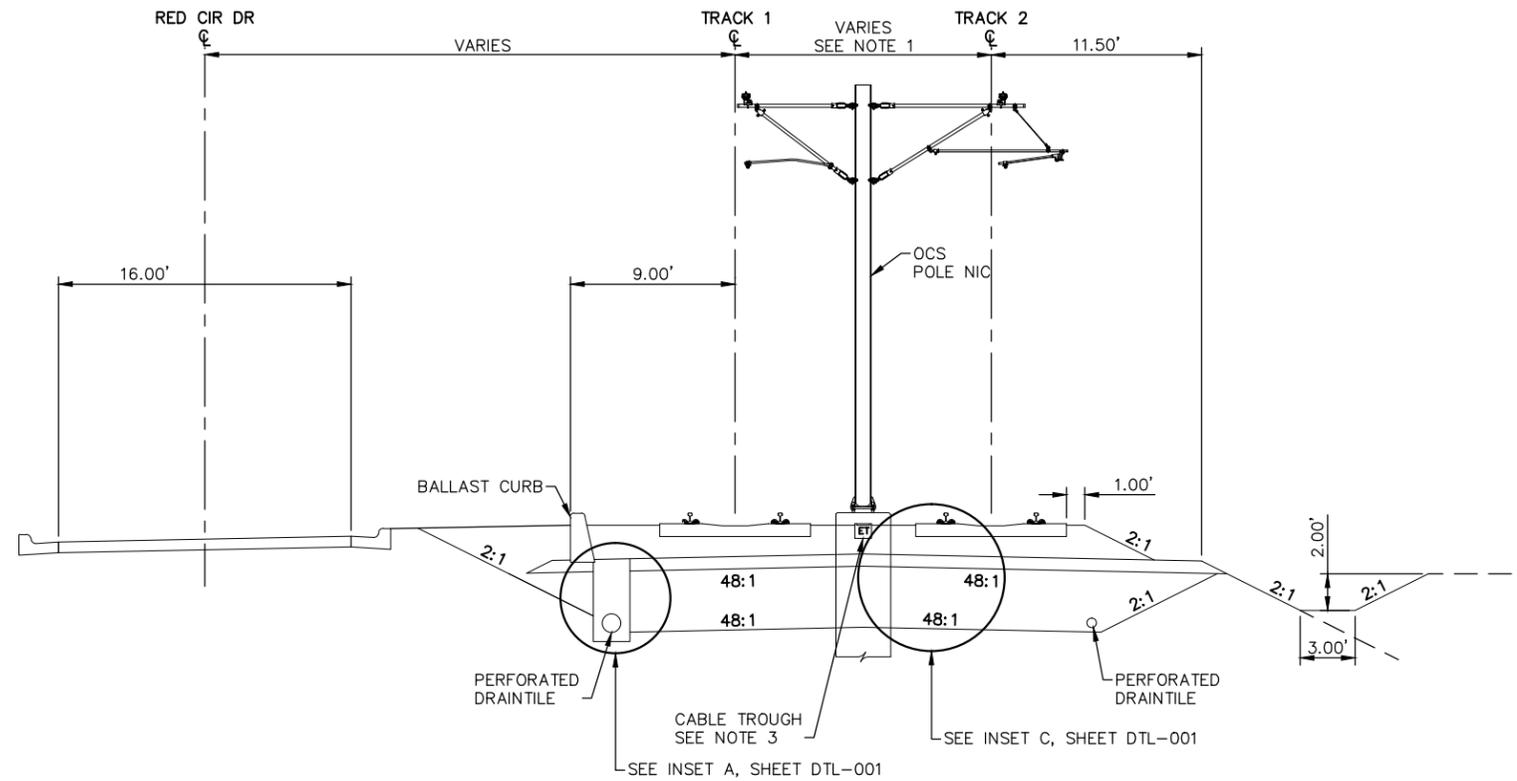
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

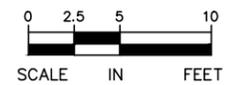
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 036

SHEET
 72
 OF
 189

- NOTES:**
1. TRACK CENTERS NARROW FROM 19.24' TO 17.82' BETWEEN STA. 2315+55.74 AND 2317+50.00
 2. SECTION DOES NOT ILLUSTRATE GRADE CROSSING AT BREN RD W. SEE TRACK PLANS AND DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2315+55.74 TO 2317+50.00



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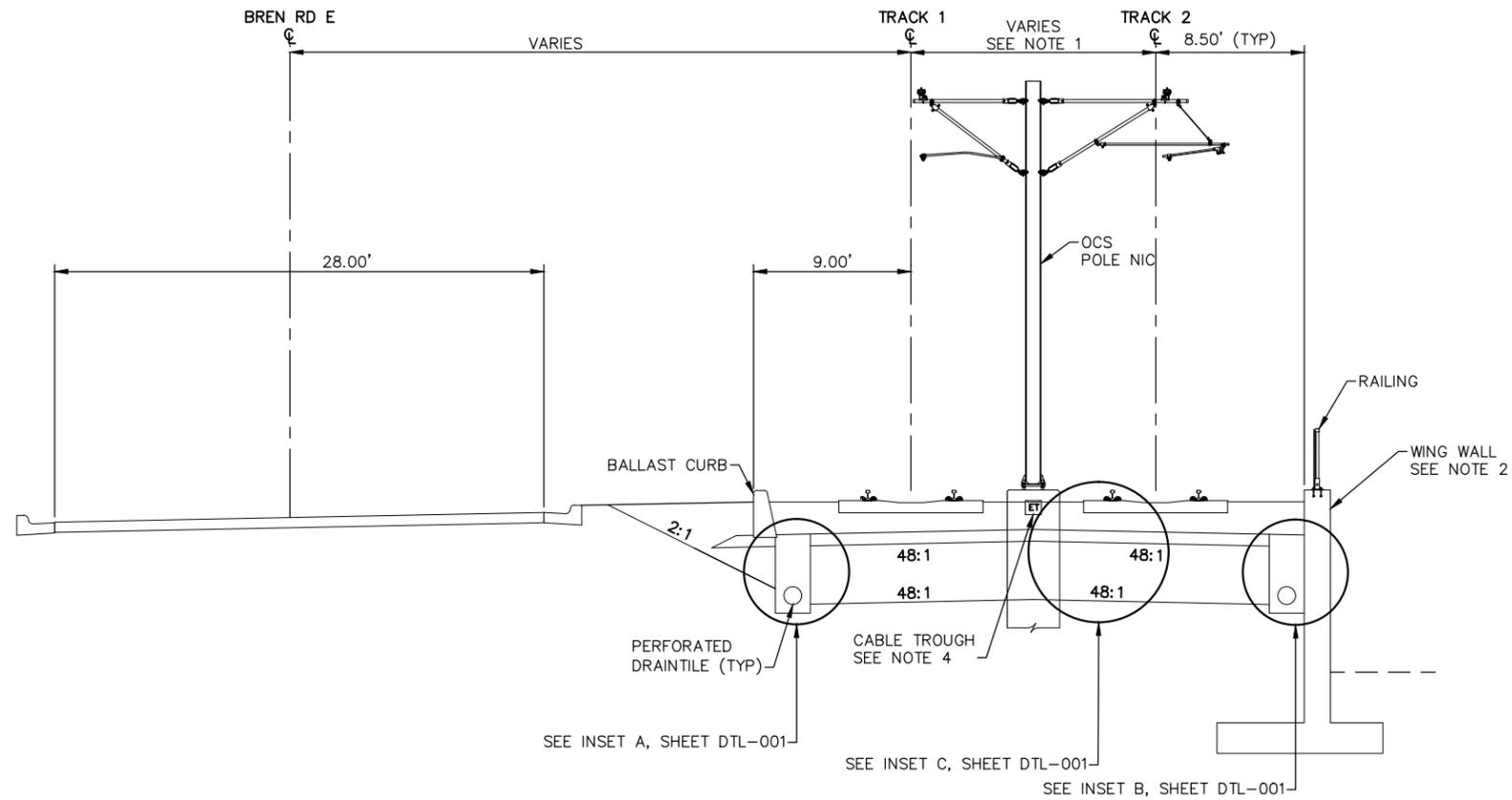
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

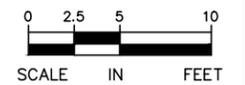
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 037

SHEET
 73
 OF
 189

- NOTES:**
1. TRACK CENTERS NARROW FROM 17.82' TO 17.59' BETWEEN STA. 2317+50.00 AND 2319+00.00.
 2. SEE BRIDGE PLANS FOR WING WALL DETAILS.
 3. SECTION DOES NOT ILLUSTRATE GRADE CROSSING AT BREN RD W. SEE TRACK PLANS FOR CROSSING LIMITS. SEE SHEET XX FOR DETAILS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2317+50.00 TO 2319+00.00



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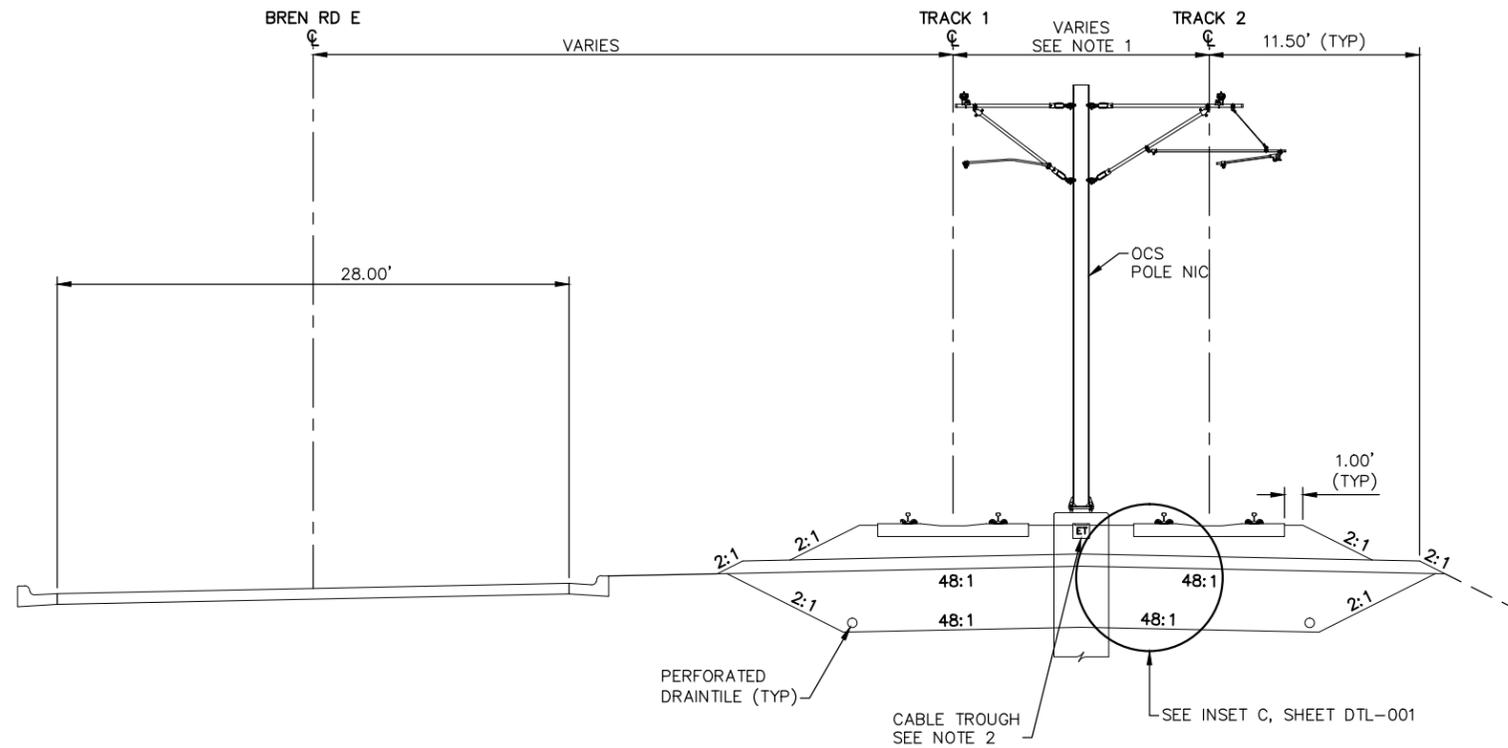
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

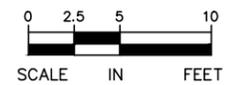
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 038

SHEET
74
OF
189

- NOTES:**
1. TRACK CENTERS WIDEN FROM 17.59' TO 21.90' BETWEEN STA. 2319+00.00 AND 2320+55.80.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2319+00.00 TO 2320+55.80



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60% SUBMISSION - 09/28/15

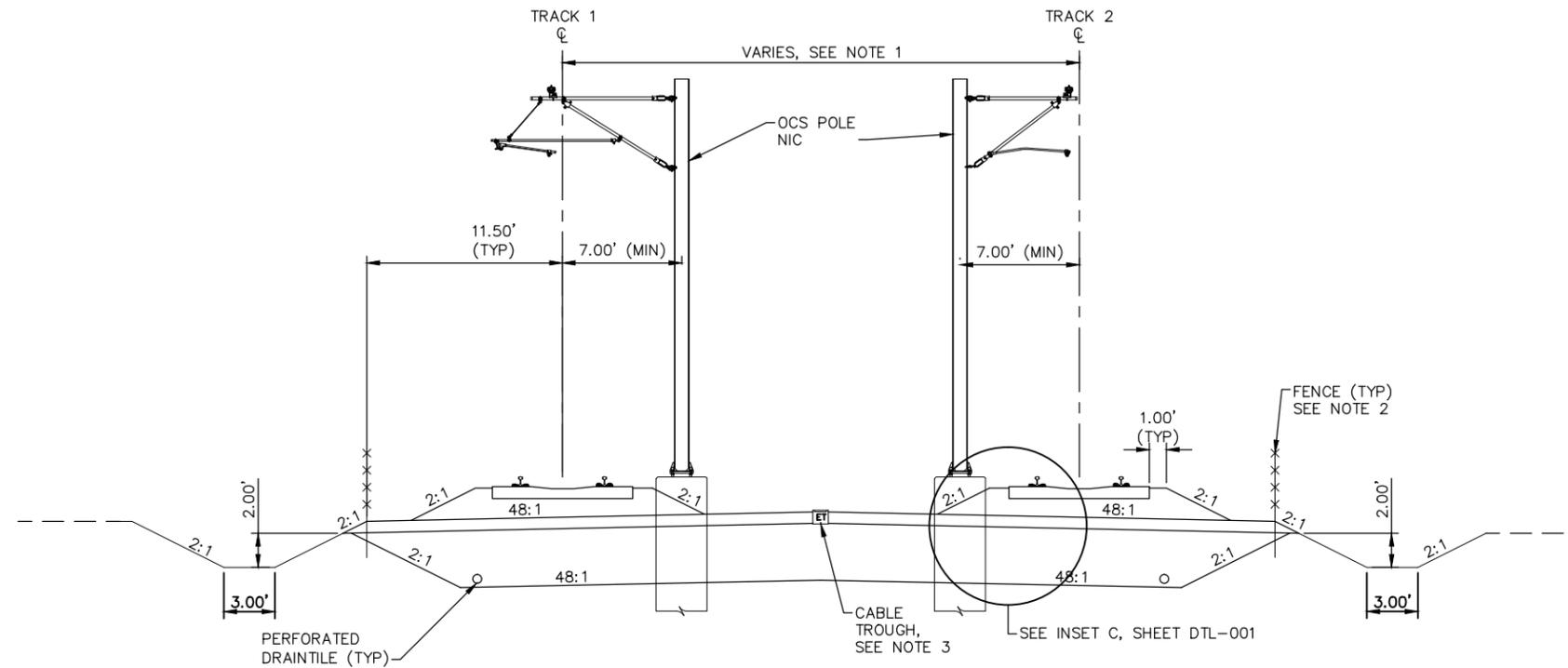


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

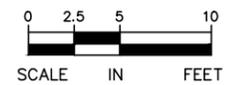
DISCIPLINE: TRACK SHEET NAME: W2-TRK-TYP - 039

SHEET
 75
 OF
 189

- NOTES:
1. TRACK CENTERS WIDEN FROM 21.90' TO 30.38' BETWEEN STA. 2335+00.00 AND 2338+62.79.
 2. FENCE ON TRACK 2 SIDE BEGINS AT STA. 2336+54.16.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2335+00.00 TO STA. 2338+97.06



Sep. 21 2015 02:03 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

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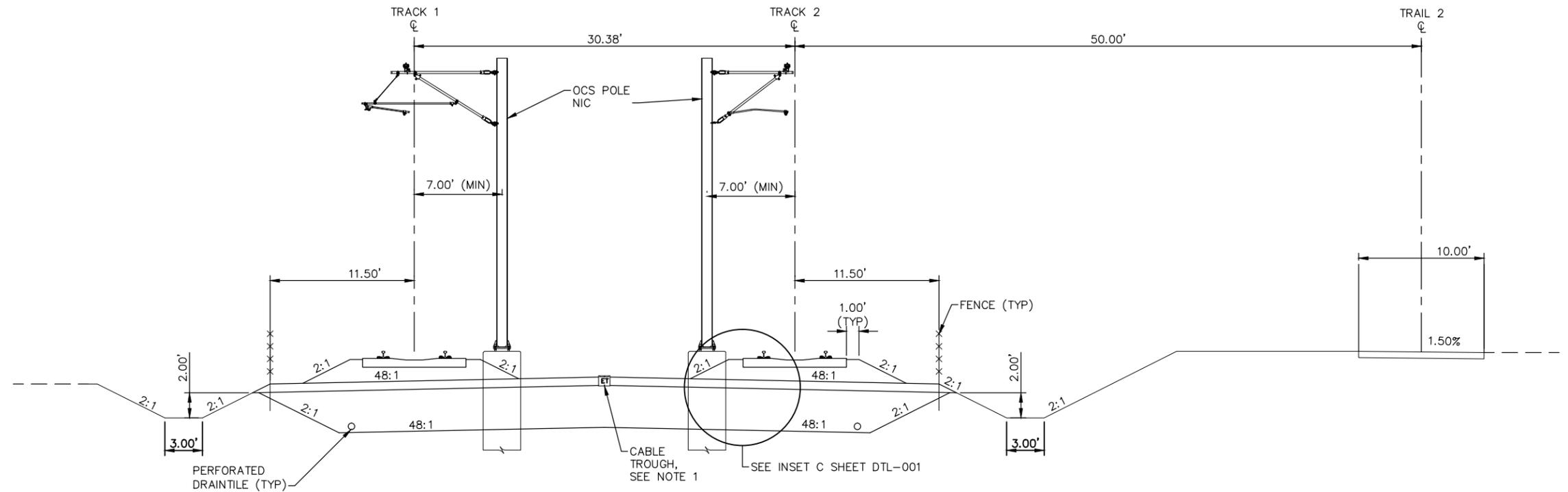
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

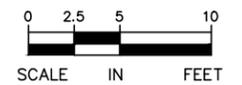
DISCIPLINE: **TRACK** SHEET NAME: **W3-TRK-TYP - 001**

SHEET
 76
 OF
 189

NOTES:
 1. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2338+97.06 TO STA. 2339+92.00



Sep. 21 2015 02:03 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

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60% SUBMISSION - 09/28/15

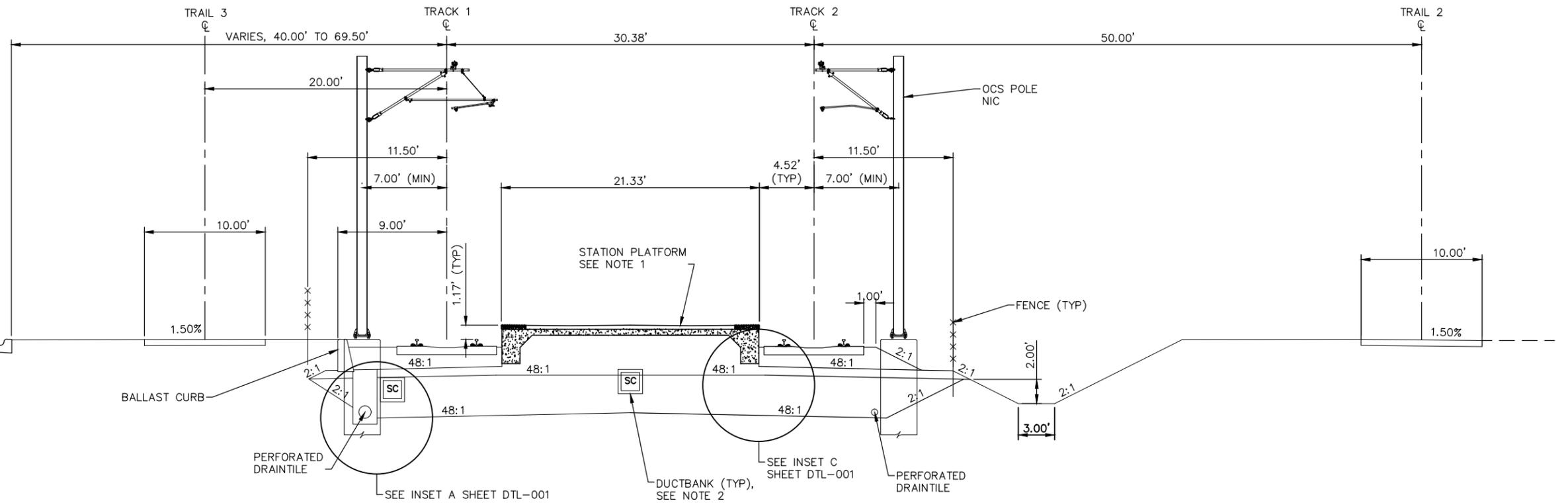


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

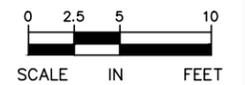
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 002

SHEET
 77
 OF
 189

- NOTES:
 1. SEE STATION PLANS FOR STATION PLATFORM DETAILS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION - OPUS STATION
 STA. 2341+32.15 TO STA. 2342+62.00



Sep. 21 2015 02:04 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

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60% SUBMISSION - 09/28/15

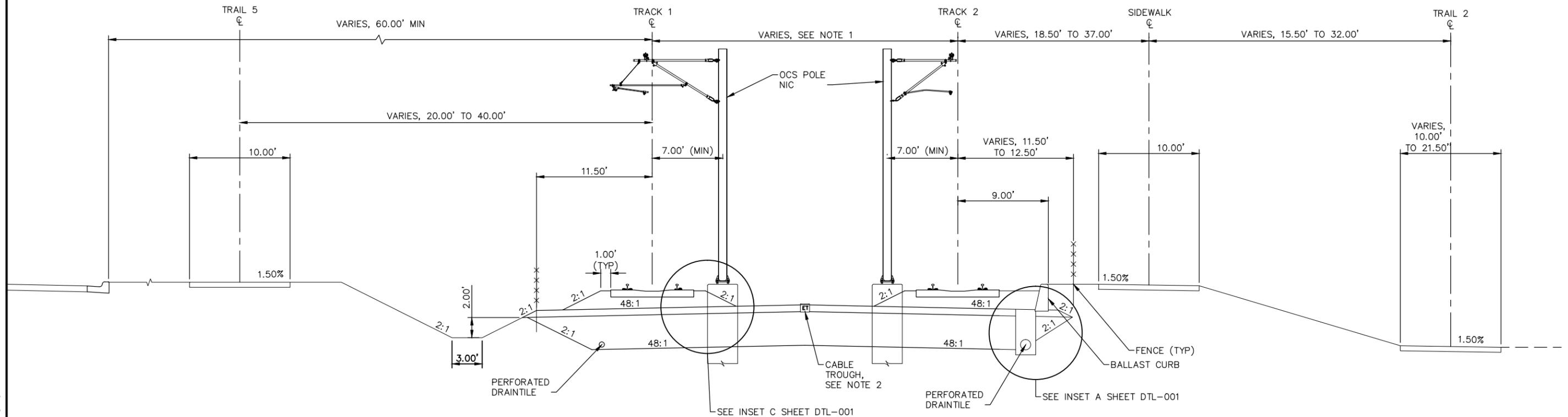


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

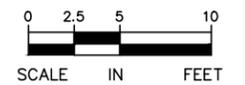
DISCIPLINE: **TRACK** SHEET NAME: **W3-TRK-TYP - 004**

SHEET
79
OF
189

- NOTES:
1. TRACK CENTERS NARROW FROM 30.38' TO 27.38' BETWEEN STA. 2343+14.33 TO 27.38' AT STA. 2344+46.19.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2342+62.00 TO 2344+46.19



Sep. 21 2015 02:04 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

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AECOM

60% SUBMISSION - 09/28/15

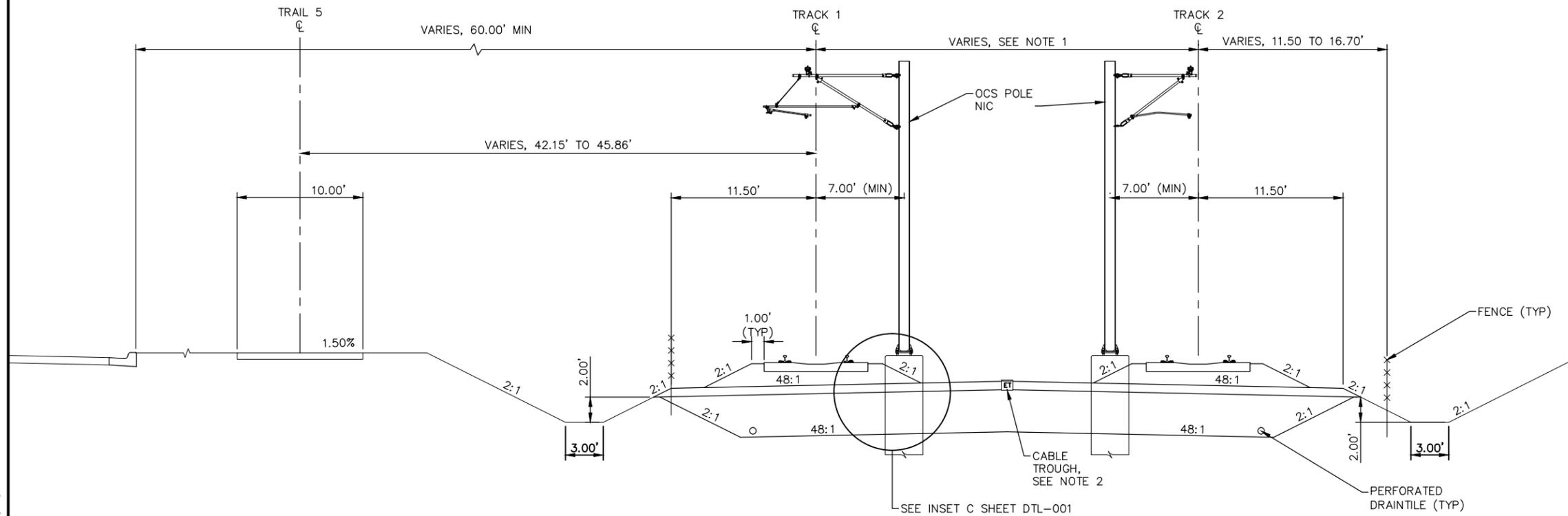


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

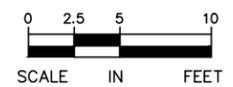
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 005

SHEET
 80
 OF
 189

- NOTES:
1. TRACK CENTERS NARROW FROM 27.38' TO 20.00' BETWEEN STA. 2344+46.19 AND 2345+58.58.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.

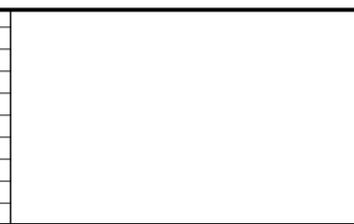


TYPICAL SECTION
 STA. 2344+46.19 TO 2345+58.58



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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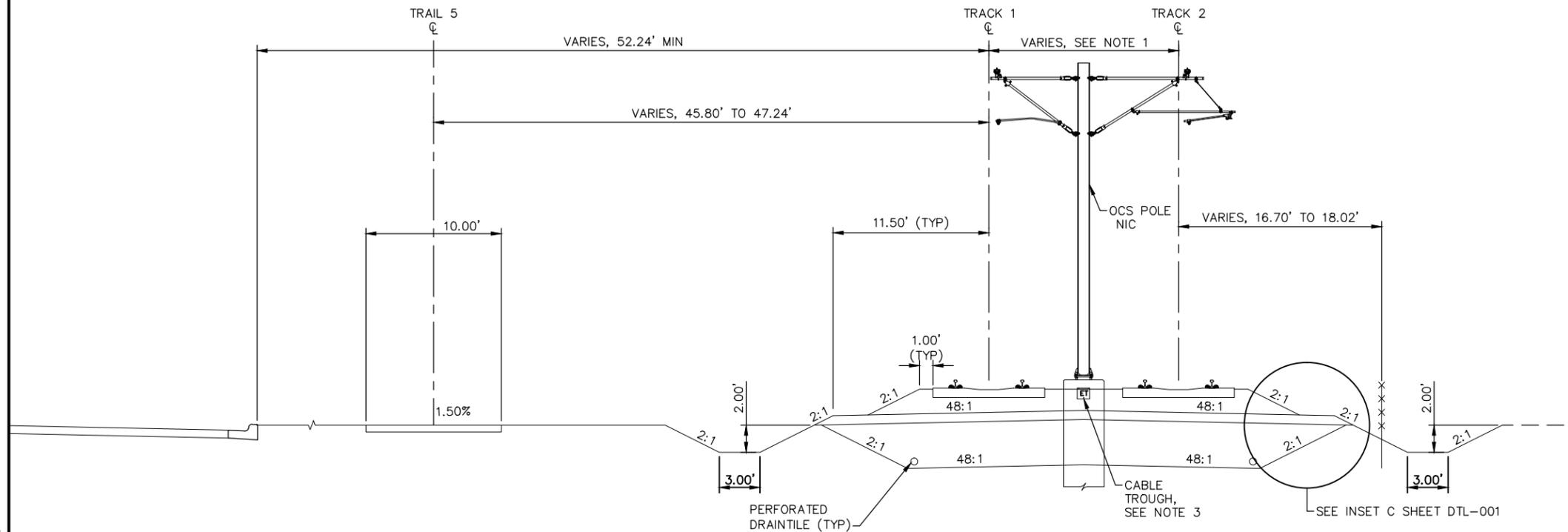
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

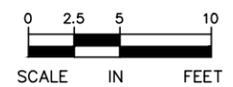
DISCIPLINE: **TRACK** SHEET NAME: **W3-TRK-TYP - 006**

SHEET
 81
 OF
 189

- NOTES:
1. TRACK CENTERS NARROW FROM 20.00' TO 15.50' BETWEEN STA. 2245+58.58 TO 2346+36.84.
 2. SECTION DOES NOT ILLUSTRATE GRADE CROSSING AT BREN RD E. SEE TRACK PLANS FOR CROSSING LIMITS. SEE SHEET XX FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2345+58.58 TO STA. 2346+33.56



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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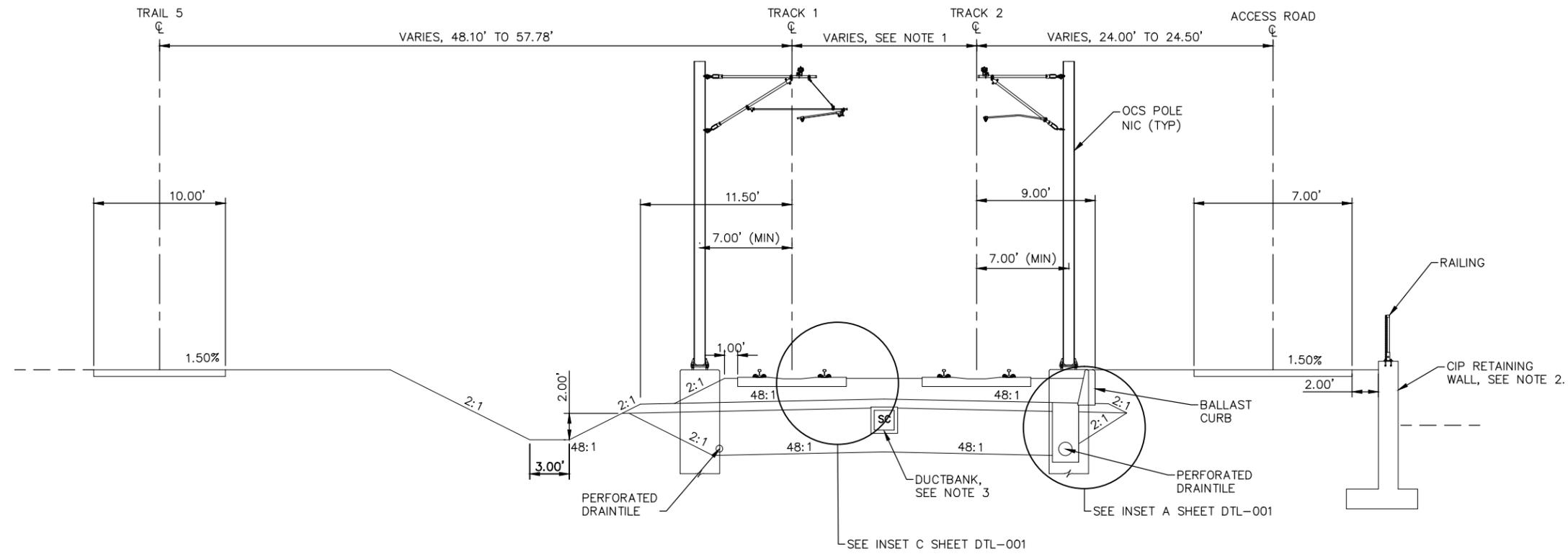
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

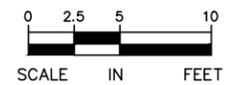
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 007

SHEET
 82
 OF
 189

- NOTES:
1. TRACK CENTERS NARROW FROM 15.50' TO 14.00' BETWEEN STA. 2346+36.84 AND 2347+38.37.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 4. SECTION DOES NOT ILLUSTRATE GRADE CROSSING AT BREN ROAD W. SEE TRACK PLANS AND DETAILS.



TYPICAL SECTION
 STA. 2346+33.56 TO STA. 2347+47.45



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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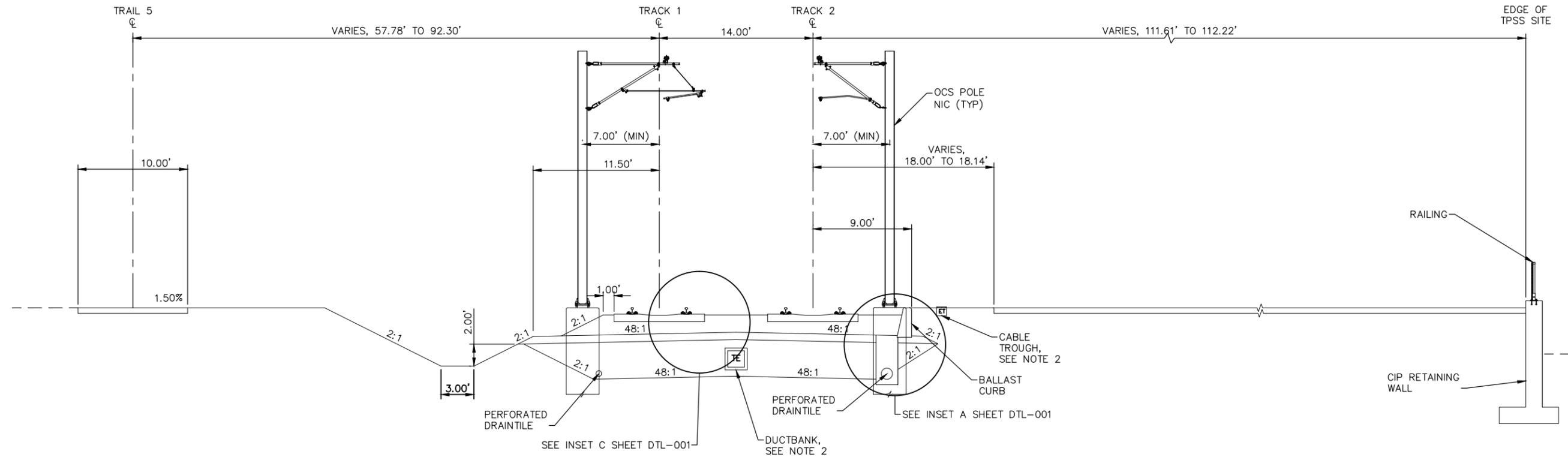
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

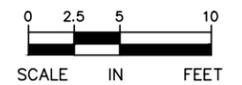
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 008

SHEET
 83
 OF
 189

- NOTES:
 1. SPECIAL TRACKWORK NOT ILLUSTRATED.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2347+47.45 TO STA. 2348+25.79



Sep. 21 2015 02:05 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

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60% SUBMISSION - 09/28/15

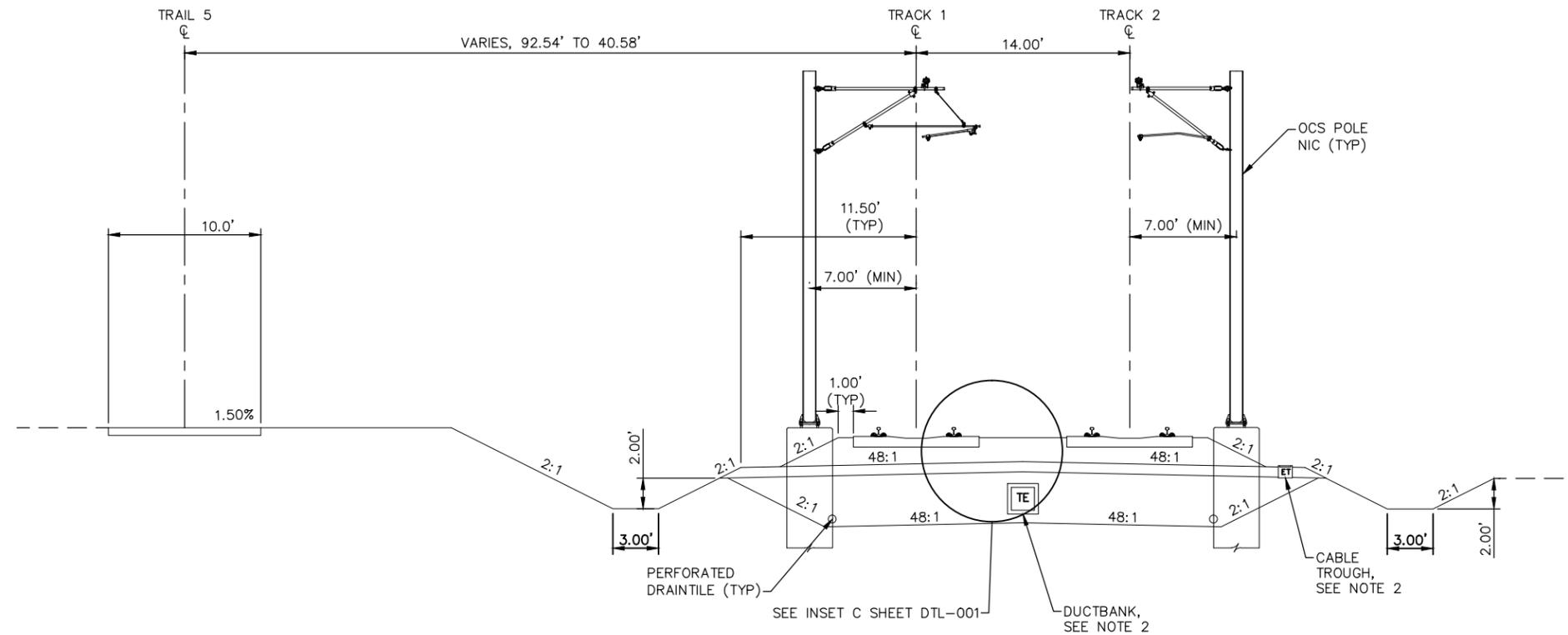


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

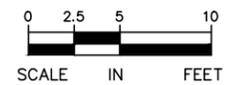
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 009

SHEET
 84
 OF
 189

- NOTES:
 1. SPECIAL TRACKWORK NOT ILLUSTRATED.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2348+25.79 TO STA. 2349+75.00



Sep. 21 2015 02:06 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



AECOM

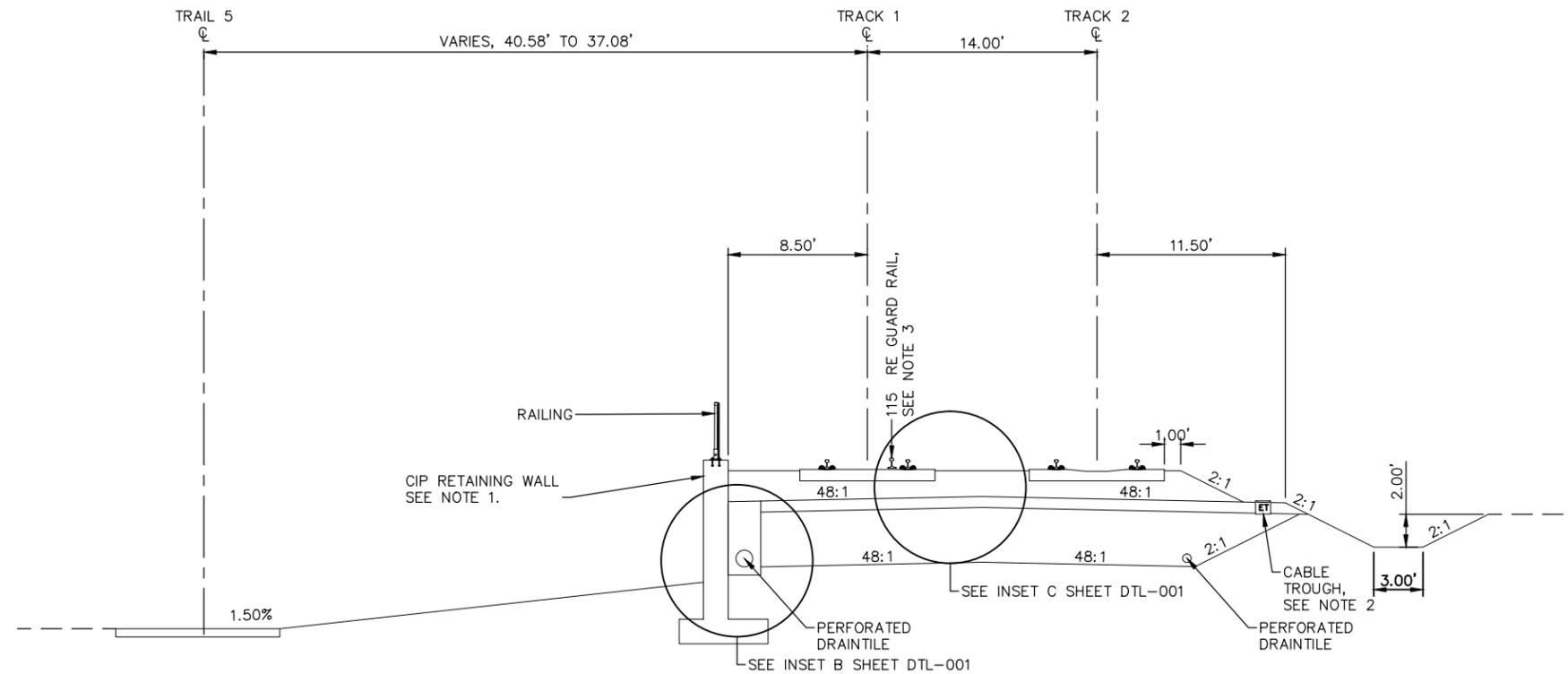
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

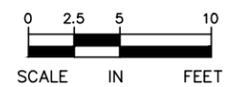
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 010

SHEET
 85
 OF
 189

- NOTES:
1. SEE RETAINING WALL PLANS FOR DETAILS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 3. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.



TYPICAL SECTION
 STA. 2349+75.00 TO STA. 2349+91.06



Sep. 21 2015 02:06 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

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AECOM

60% SUBMISSION - 09/28/15



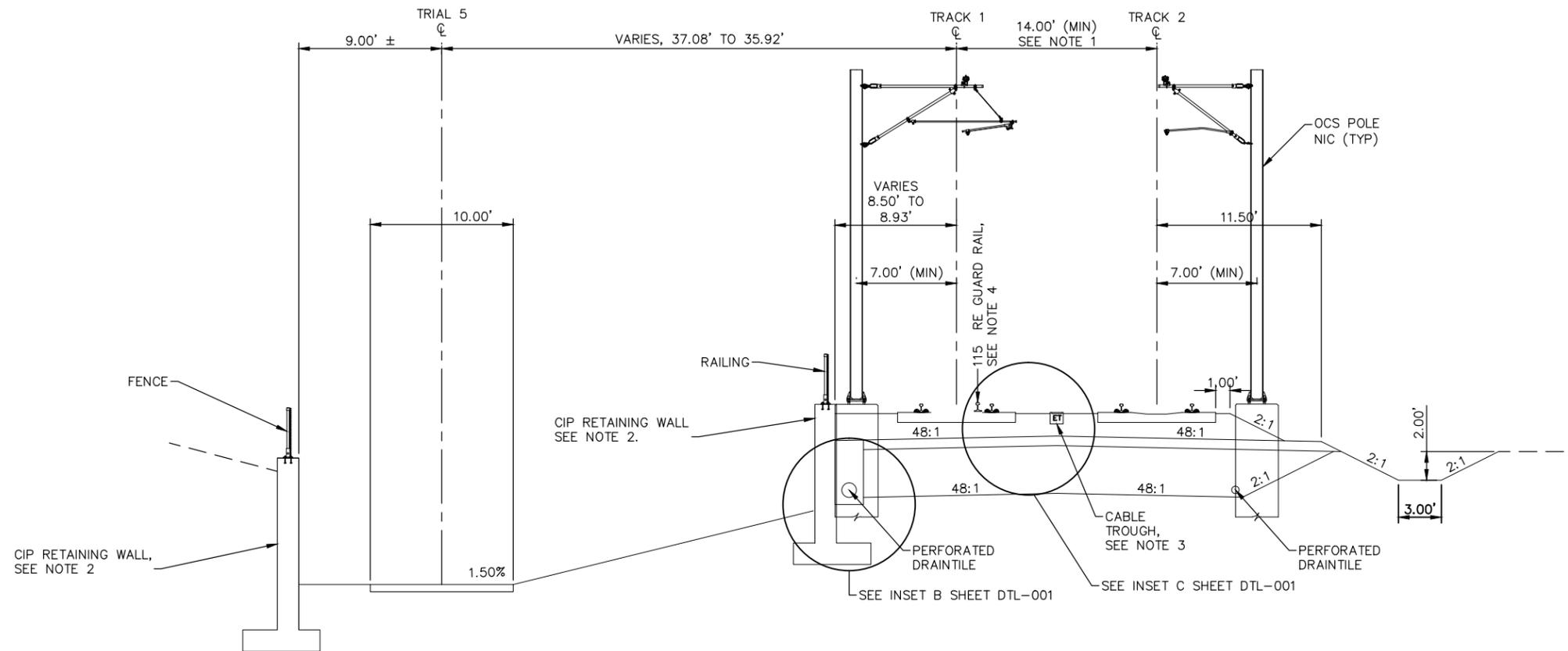
CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

DISCIPLINE: **TRACK**

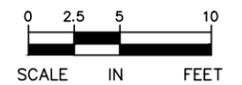
SHEET NAME: **W3-TRK-TYP - 011**

SHEET
 86
 OF
 189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-203. SEE TRACK PLANS
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 4. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 5. SEE BRIDGE PLANS FOR WING WALL DETAILS.



TYPICAL SECTION
 STA. 2349+91.06 TO STA. 2350+88.96



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

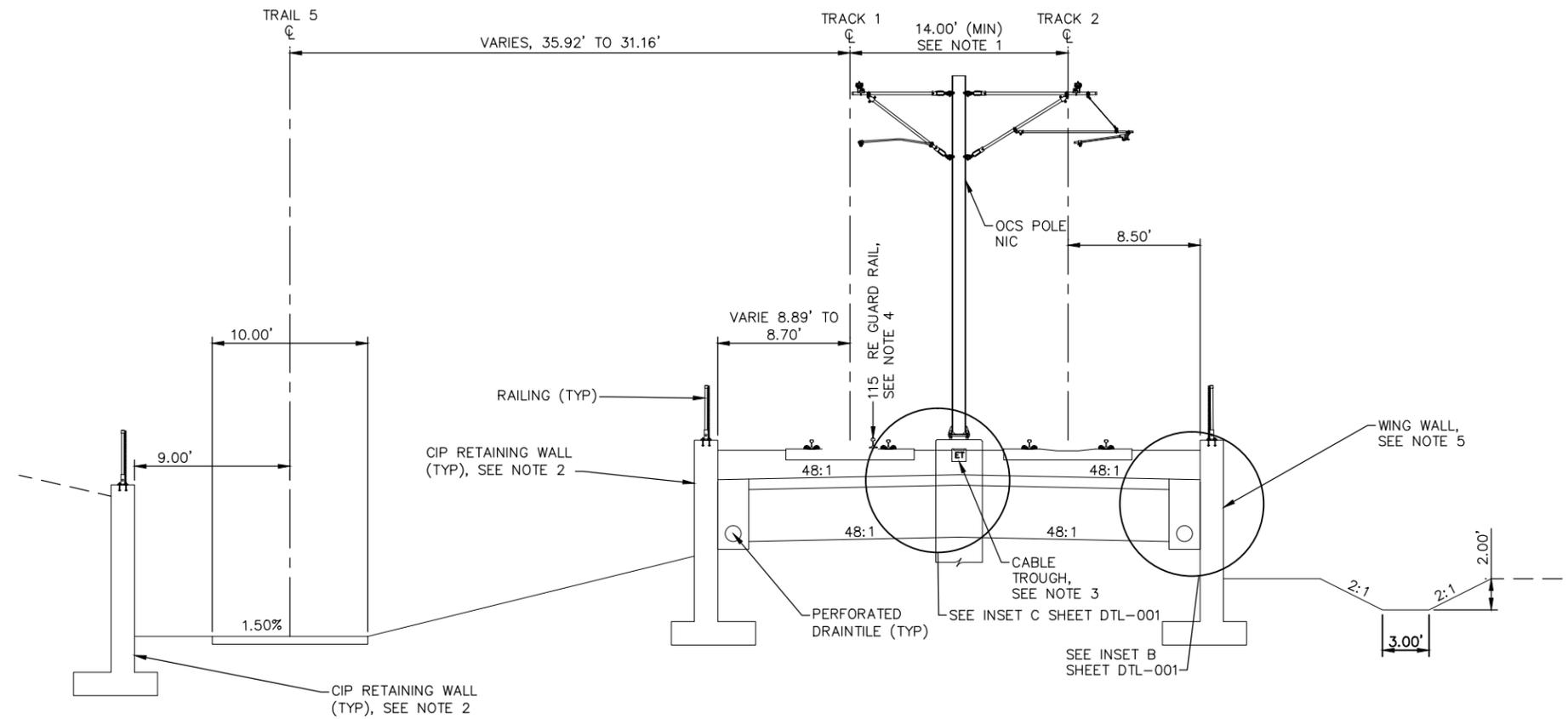
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

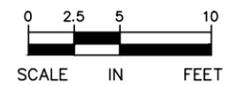
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 012

SHEET
 87
 OF
 189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-203. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 4. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.
 5. SEE BRIDGE PLANS FOR WING WALL DETAILS.



TYPICAL SECTION
 STA. 2350+88.96 TO STA. 2351+15.02



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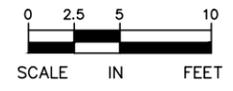
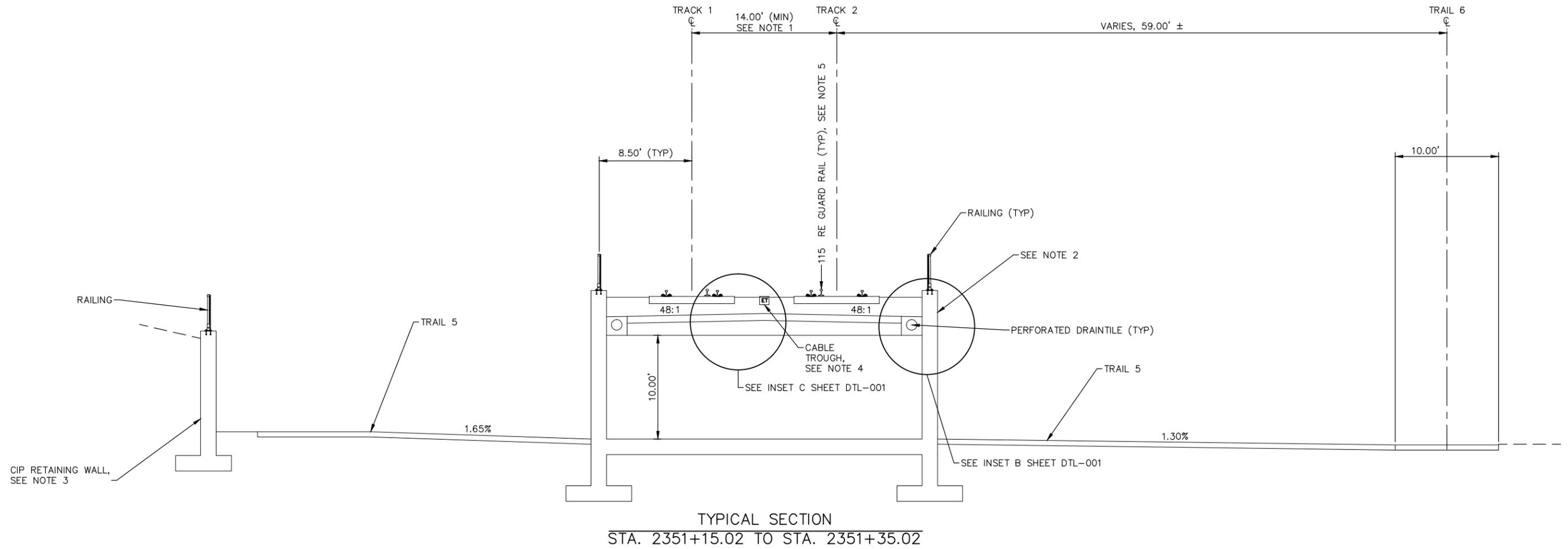
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 013

SHEET
 88
 OF
 189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-203. SEE TRACK PLANS.
 2. Mn/DOT BRIDGE R0715. SEE STRUCTURAL PLANS.
 3. SEE RETAINING WALL PLANS FOR DETAILS.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 5. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.



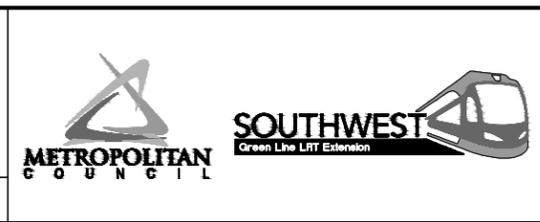
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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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60% SUBMISSION - 09/28/15

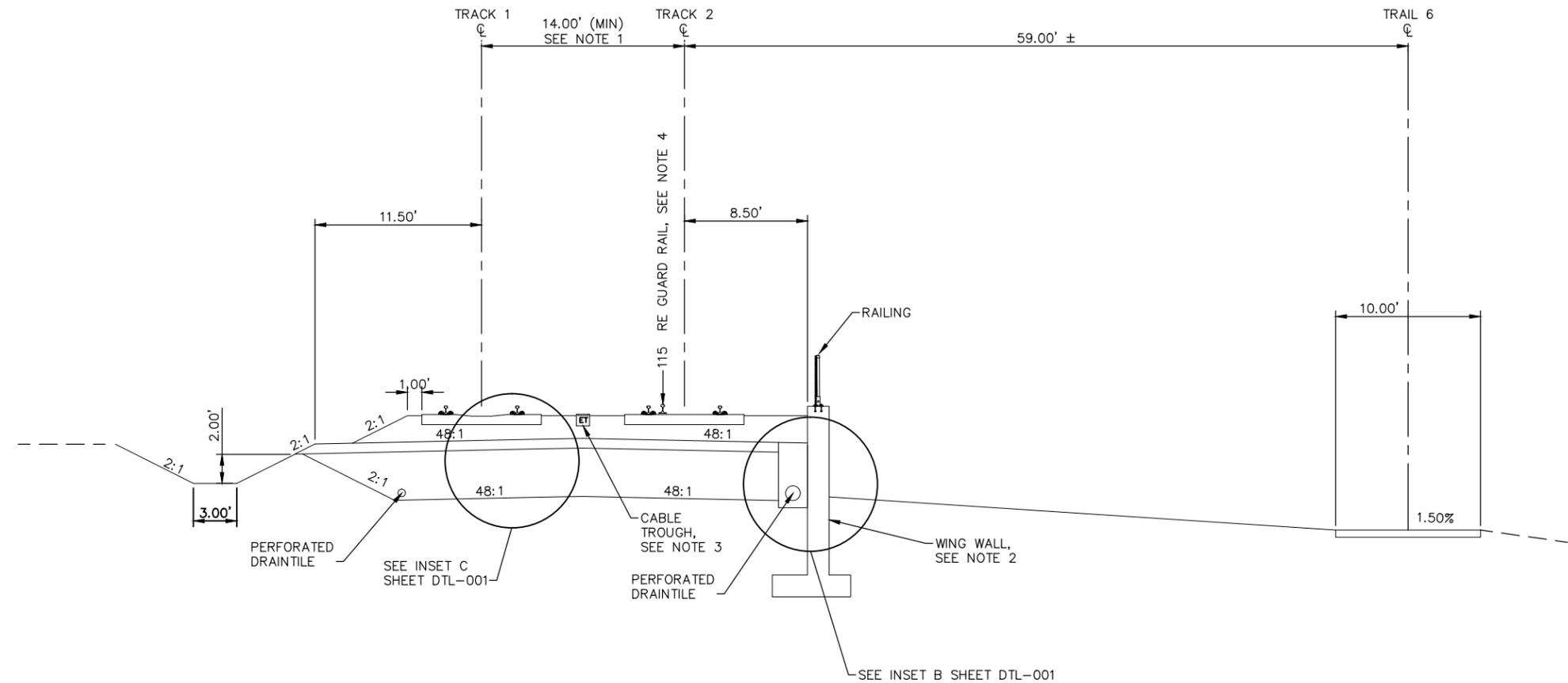


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

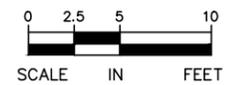
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 014

SHEET
89
OF
189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-203. SEE TRACK PLANS.
 2. SEE BRIDGE PLANS FOR WING WALL DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 4. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.



TYPICAL SECTION
STA. 2351+35.02 TO STA. 2351+61.52



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AECOM

60% SUBMISSION - 09/28/15

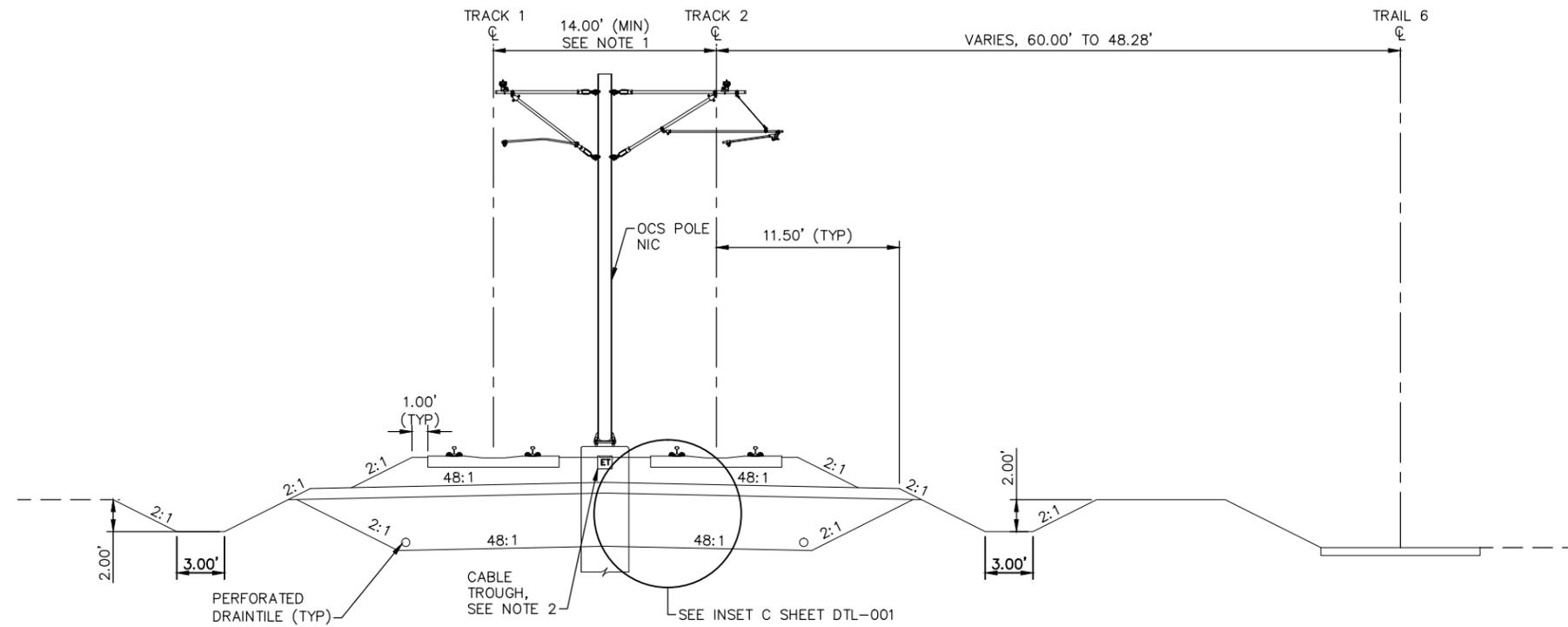


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

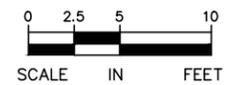
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 015

SHEET
90
OF
189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-203. SEE TRACK PLANS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
STA. 2351+61.52 TO STA. 2352+25.00



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

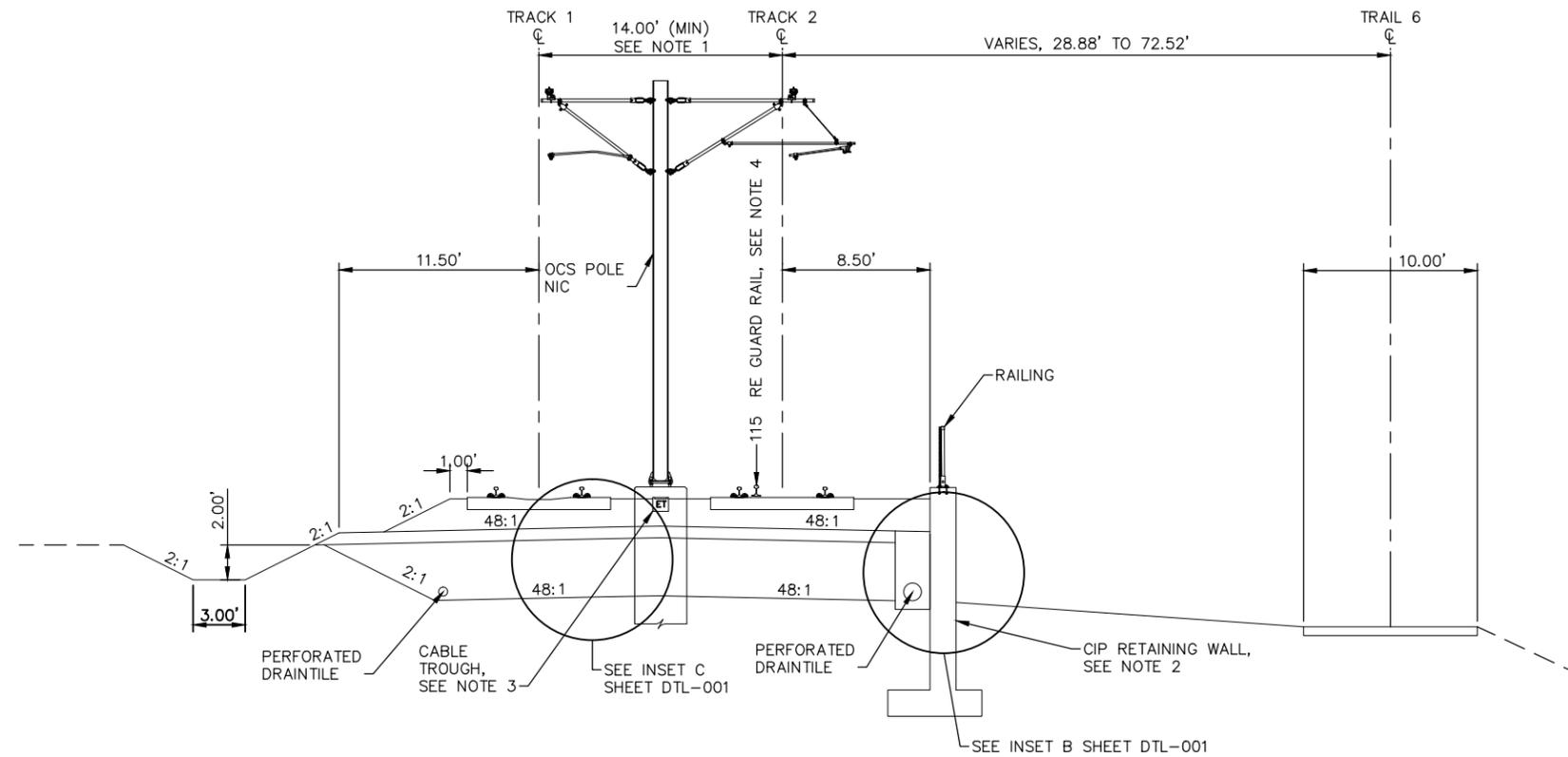


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

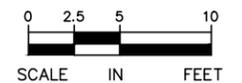
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 016

SHEET
91
OF
189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-203. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 4. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.



TYPICAL SECTION
 STA. 2352+25.00 TO STA. 2358+50.03



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

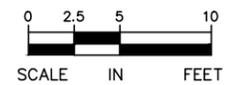
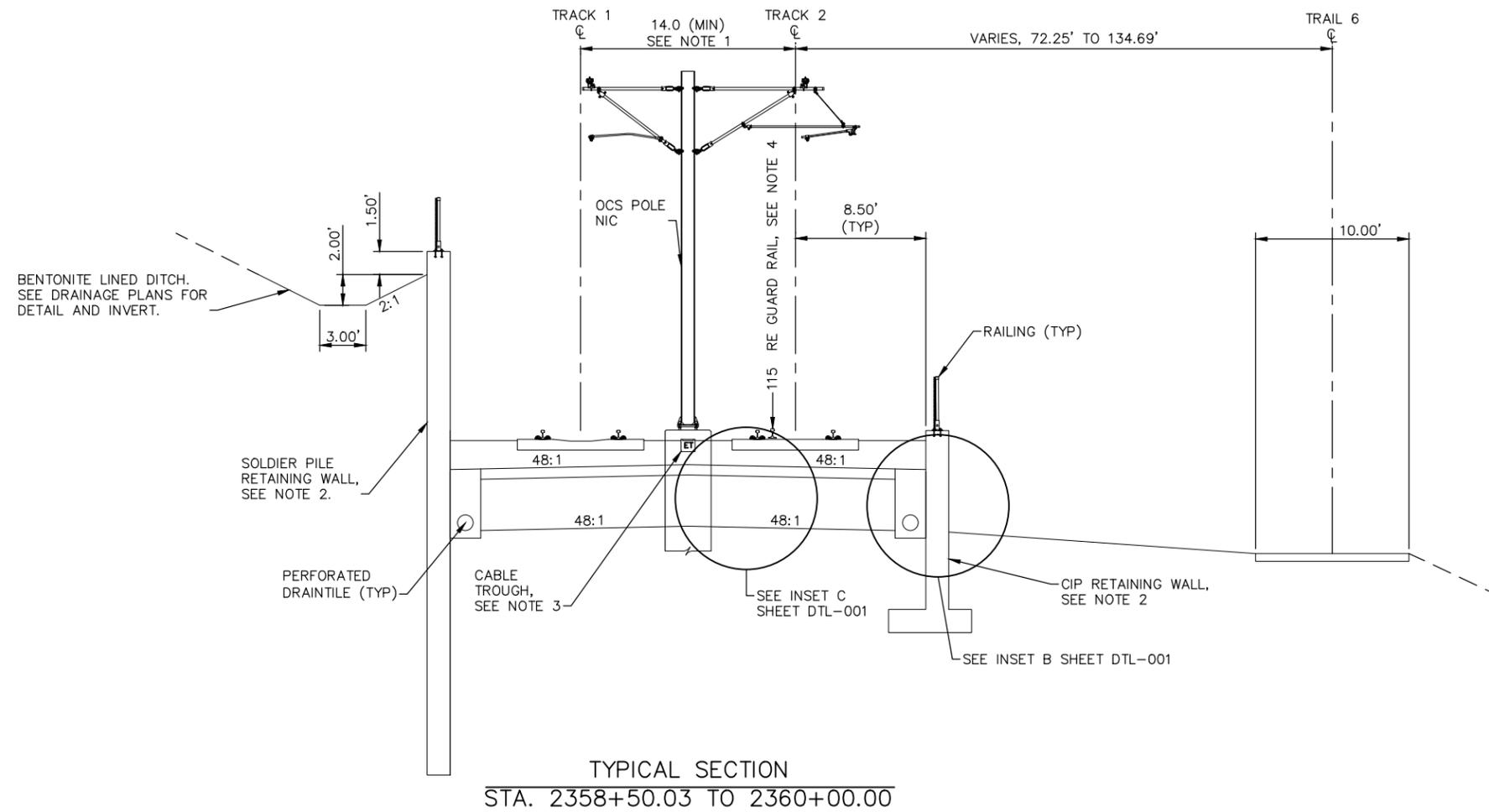


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 017

SHEET
 92
 OF
 189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-203 SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 4. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.



Sep. 21 2015 02:08 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15



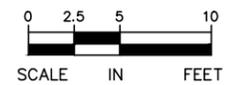
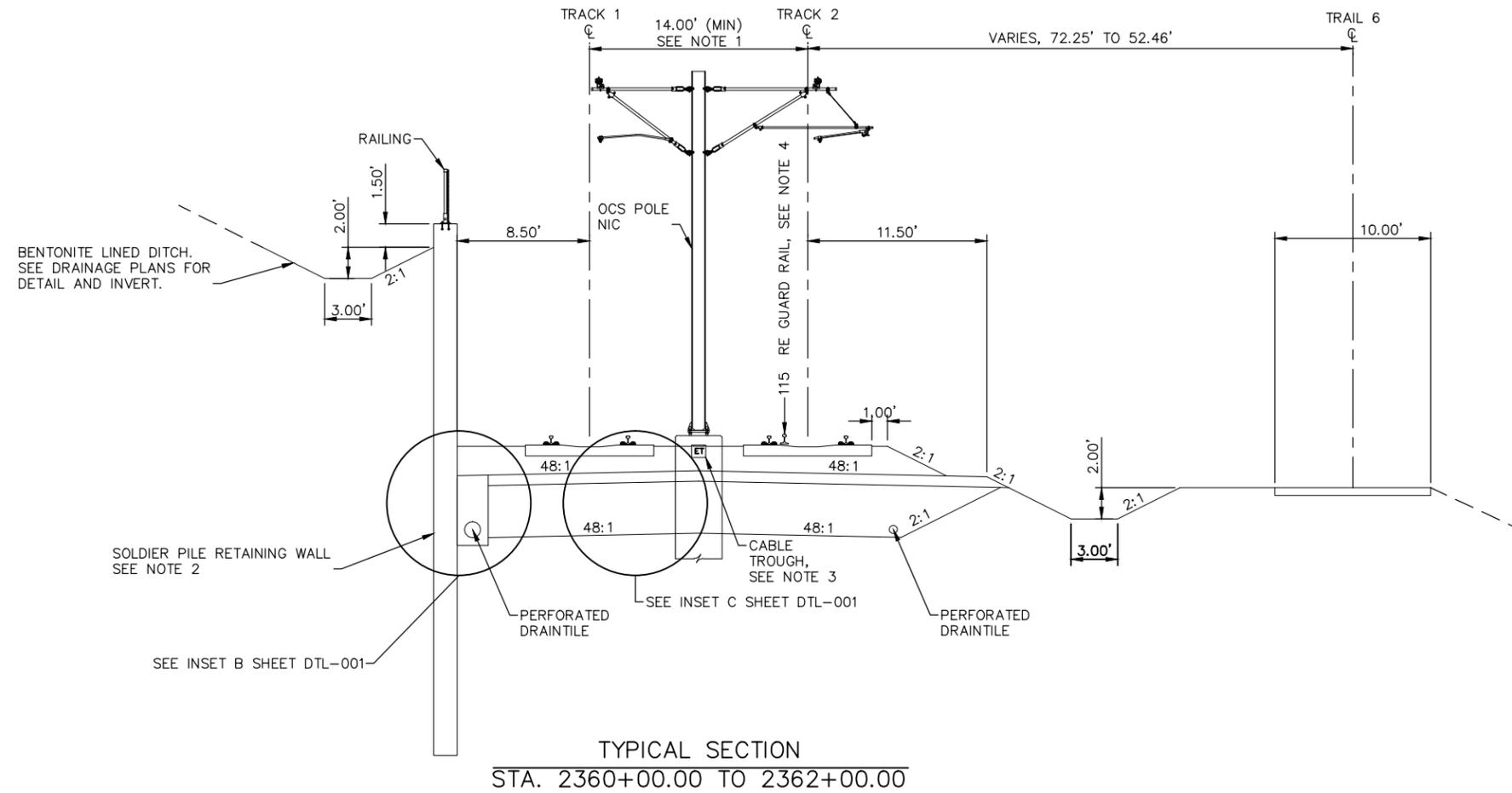
CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

DISCIPLINE: **TRACK**

SHEET NAME: **W3-TRK-TYP - 018**

SHEET
93
OF
189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-203 SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 4. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.



Sep. 21 2015 02:08 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

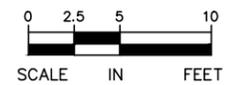
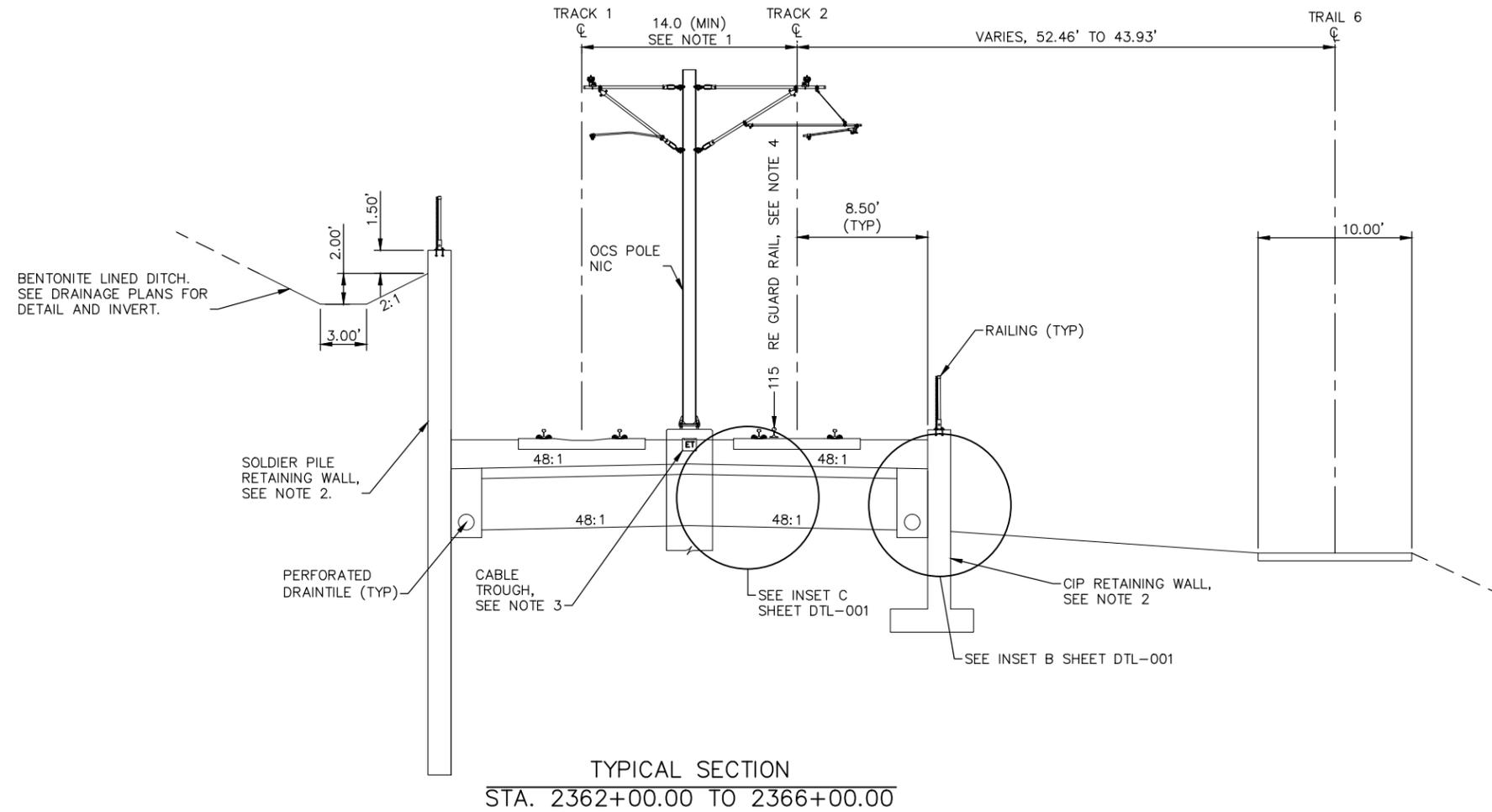


**CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS**

DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 019

SHEET
94
OF
189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-203 SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 4. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.



Sep. 21 2015 02:08 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15



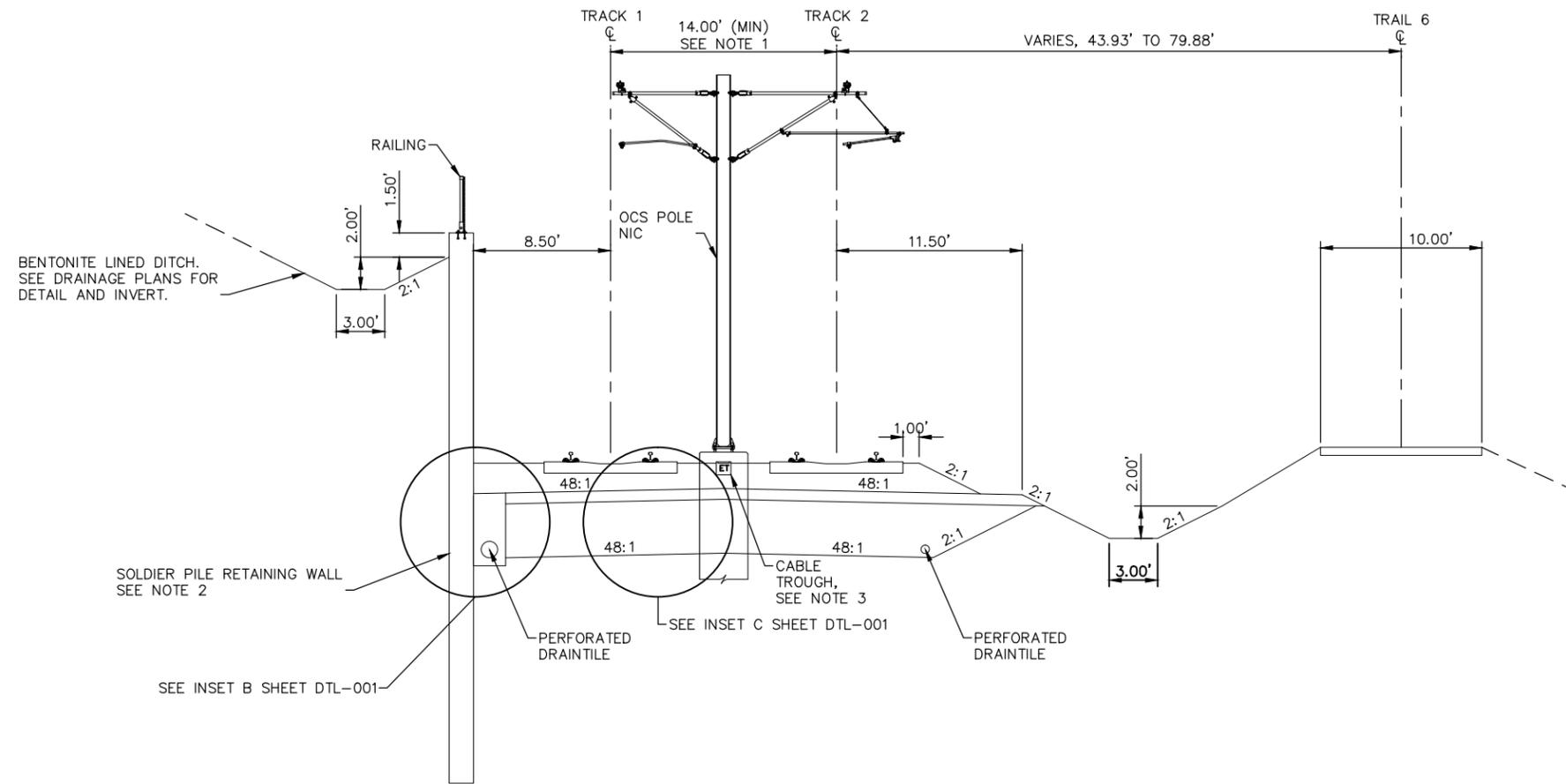
CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

DISCIPLINE: **TRACK**

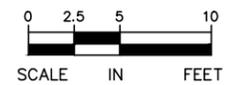
SHEET NAME: **W3-TRK-TYP - 020**

SHEET
95
OF
189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-203 SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 4. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.



TYPICAL SECTION
STA. 2366+00.00 TO 2371+80.20



Sep. 21 2015 02:09 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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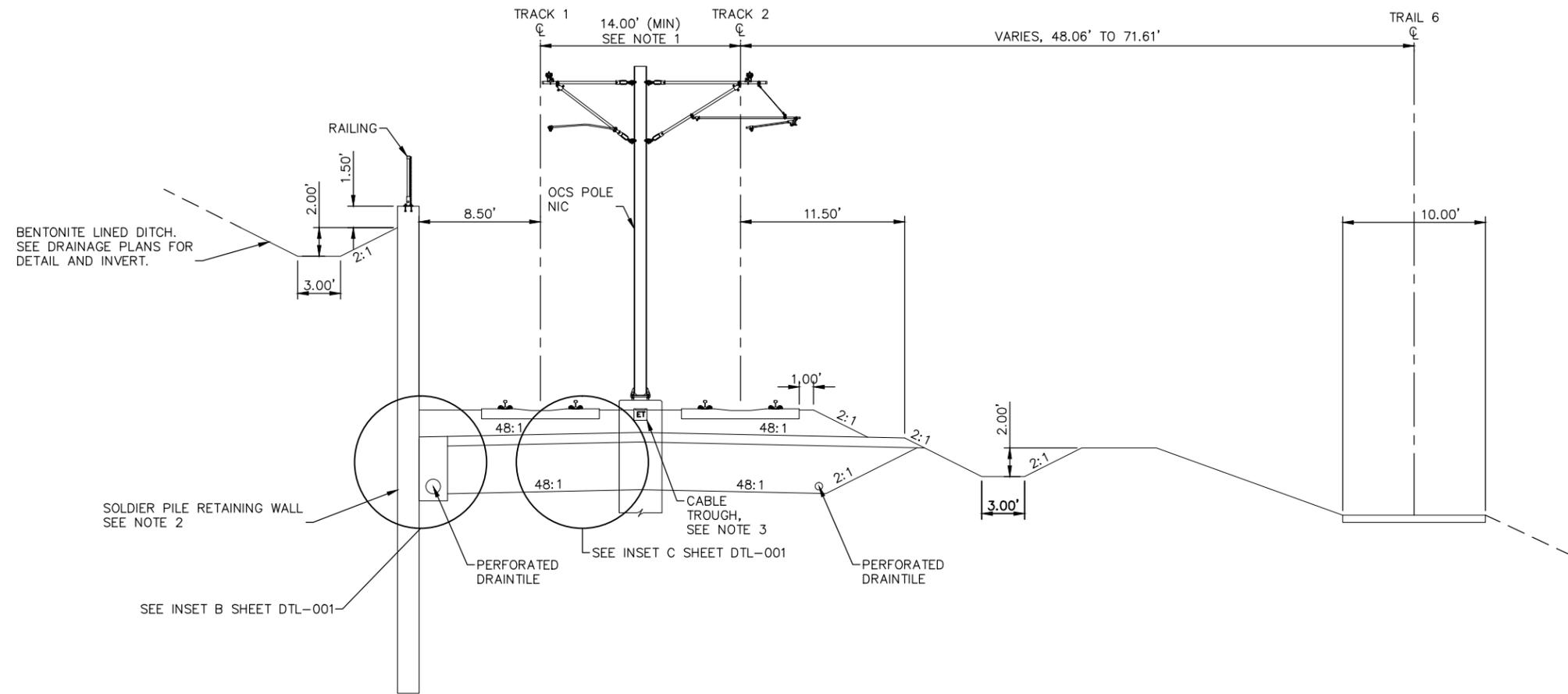
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

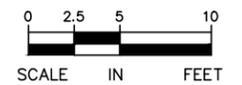
DISCIPLINE: **TRACK** SHEET NAME: **W3-TRK-TYP - 021**

SHEET
96
OF
189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-203 SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 4. FOR GUARD RAIL LIMITS SEE TRACK CHARTS.



TYPICAL SECTION
STA. 2371+80.20 TO 2373+36.89



Sep. 21 2015 02:09 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

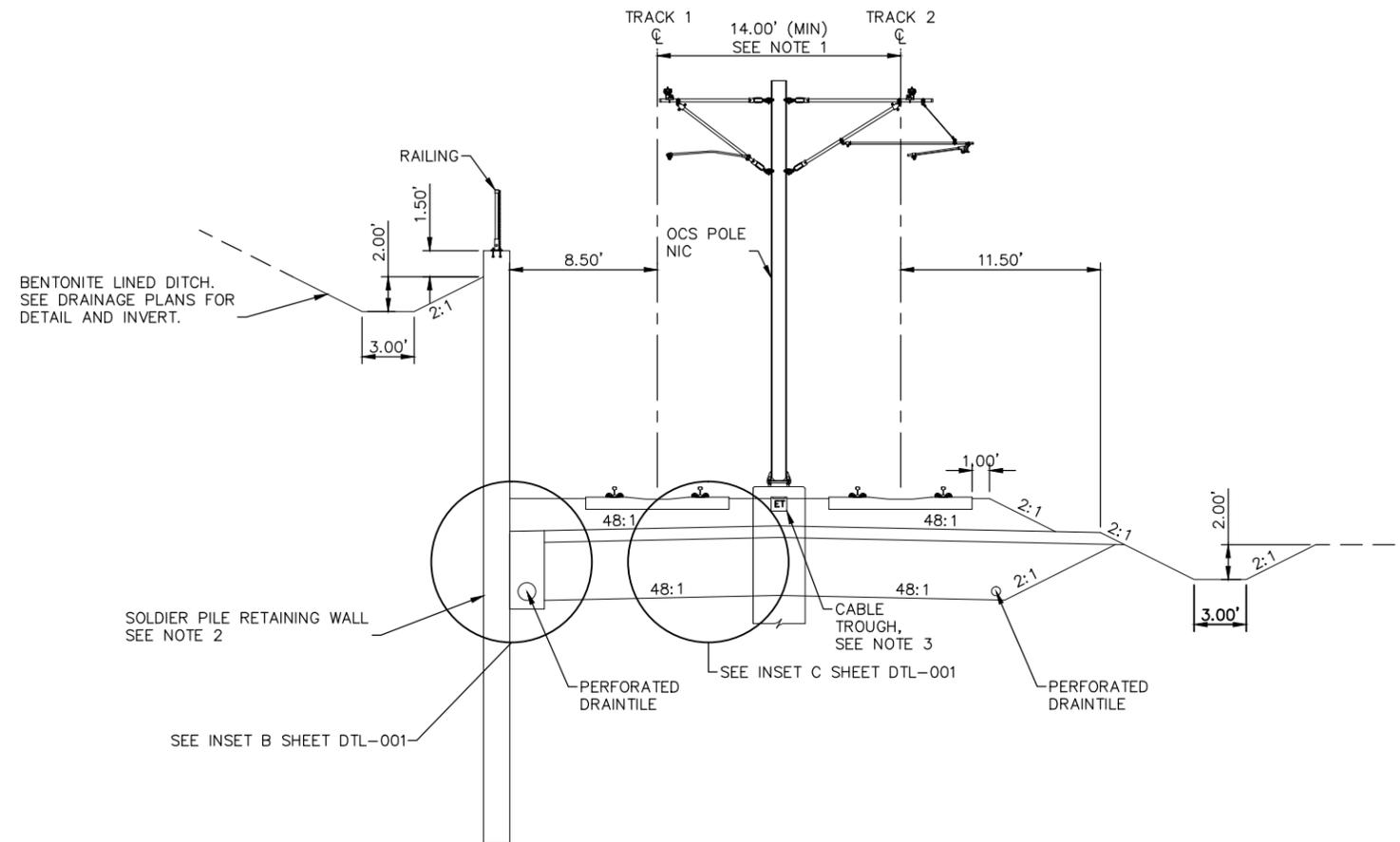


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

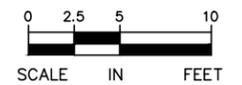
DISCIPLINE: **TRACK** SHEET NAME: **W3-TRK-TYP - 022**

SHEET
97
OF
189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-204. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.

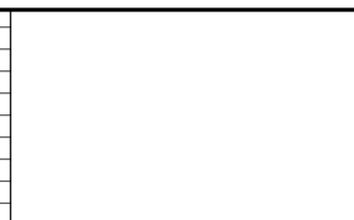


TYPICAL SECTION
 STA. 2373+36.89 TO STA. 2374+50.00



Sep. 21 2015 02:09 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

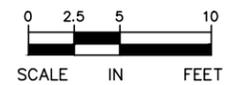
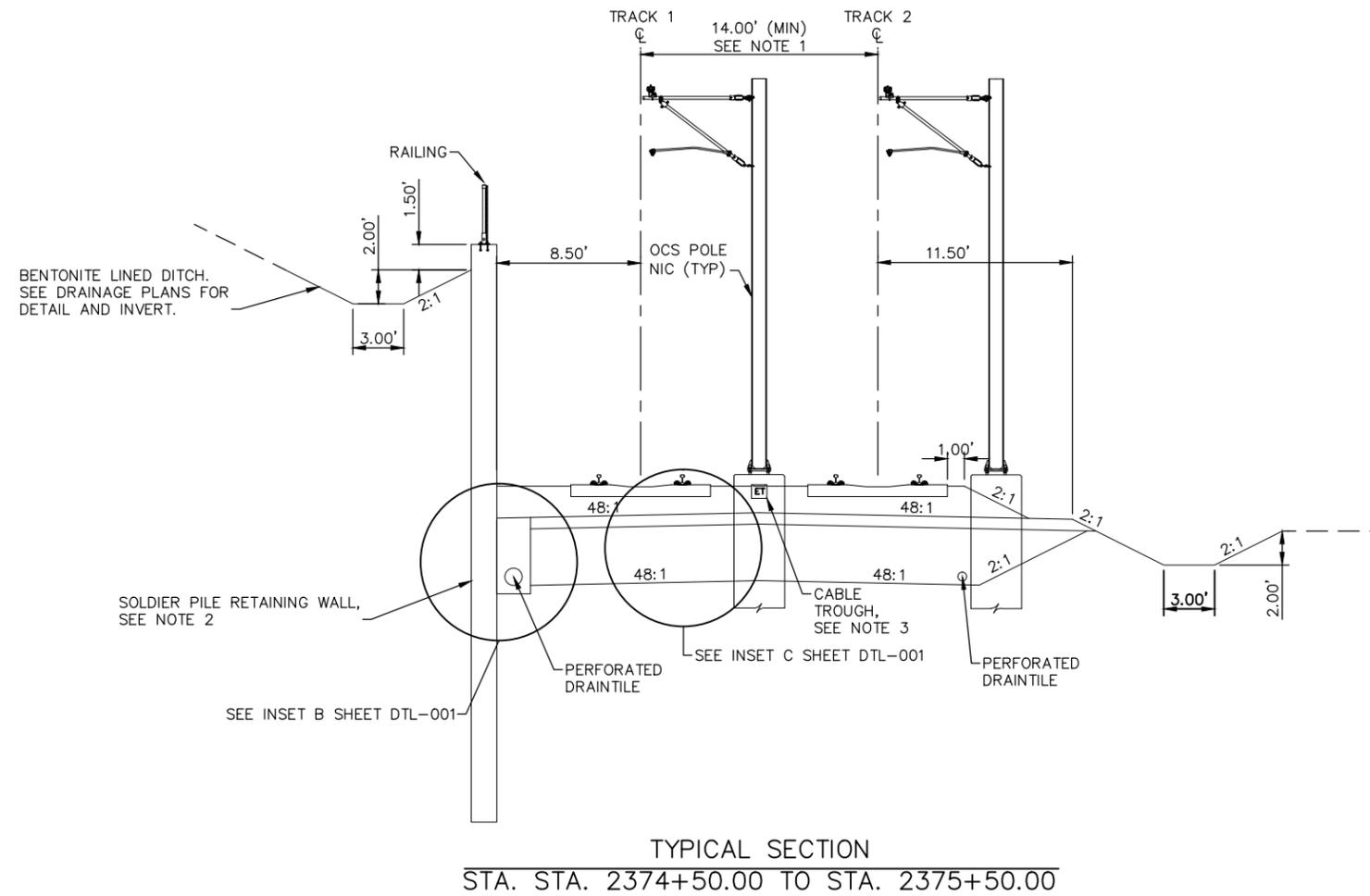
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 023

SHEET
 98
 OF
 189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-204. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



Sep. 21 2015 02:09 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

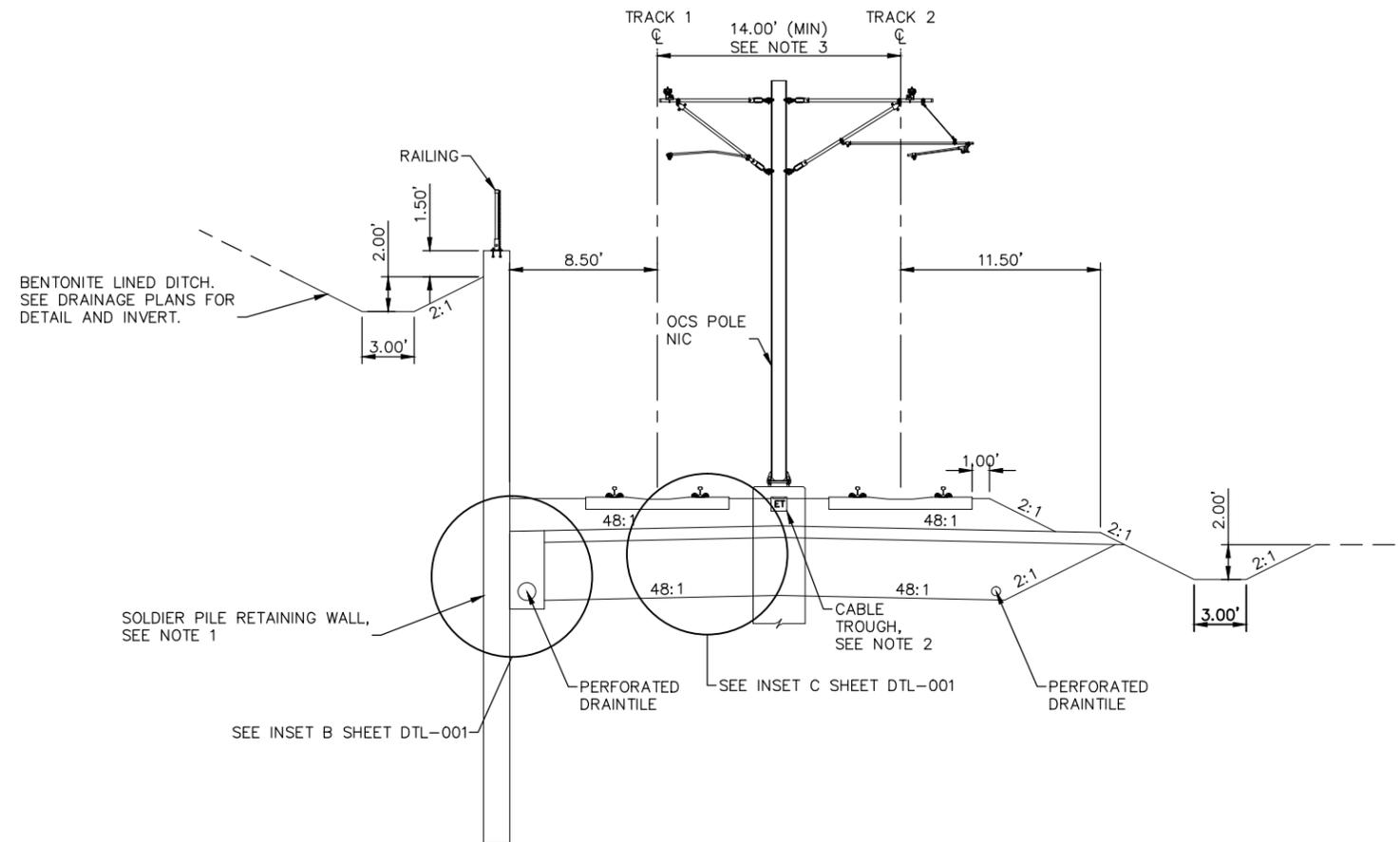


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

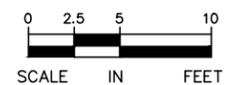
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 024

SHEET
99
OF
189

- NOTES:
1. SEE RETAINING WALL PLANS FOR DETAILS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 3. TRACK CENTERS VARY IN CURVE W3-204. SEE TRACK PLANS.



TYPICAL SECTION
 STA. 2375+50.00 TO STA. 2376+36.89

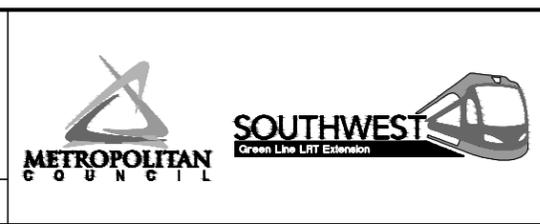


Sep. 21 2015 02:10 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

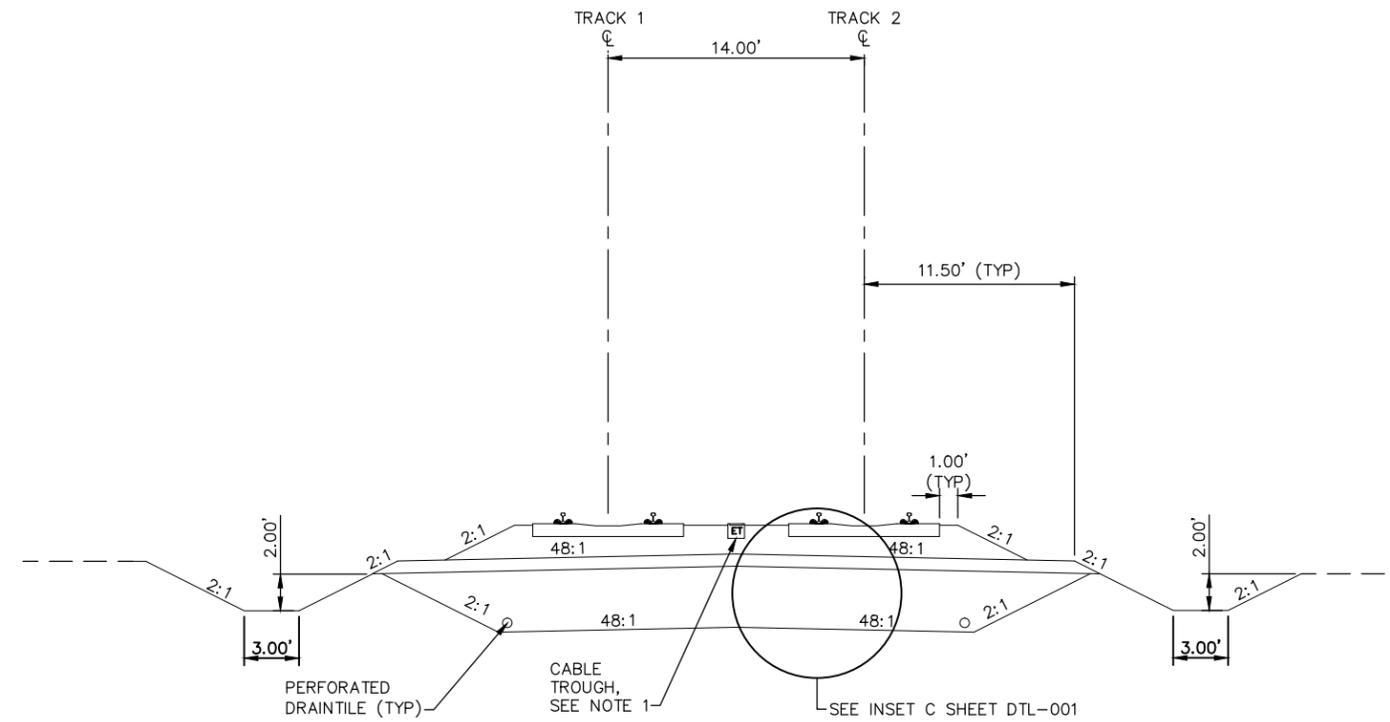


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

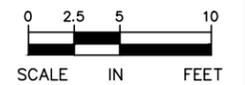
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 025

SHEET
 100
 OF
 189

NOTES:
 1. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2376+36.89 TO STA. 2377+38.63



Sep. 21 2015 02:10 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

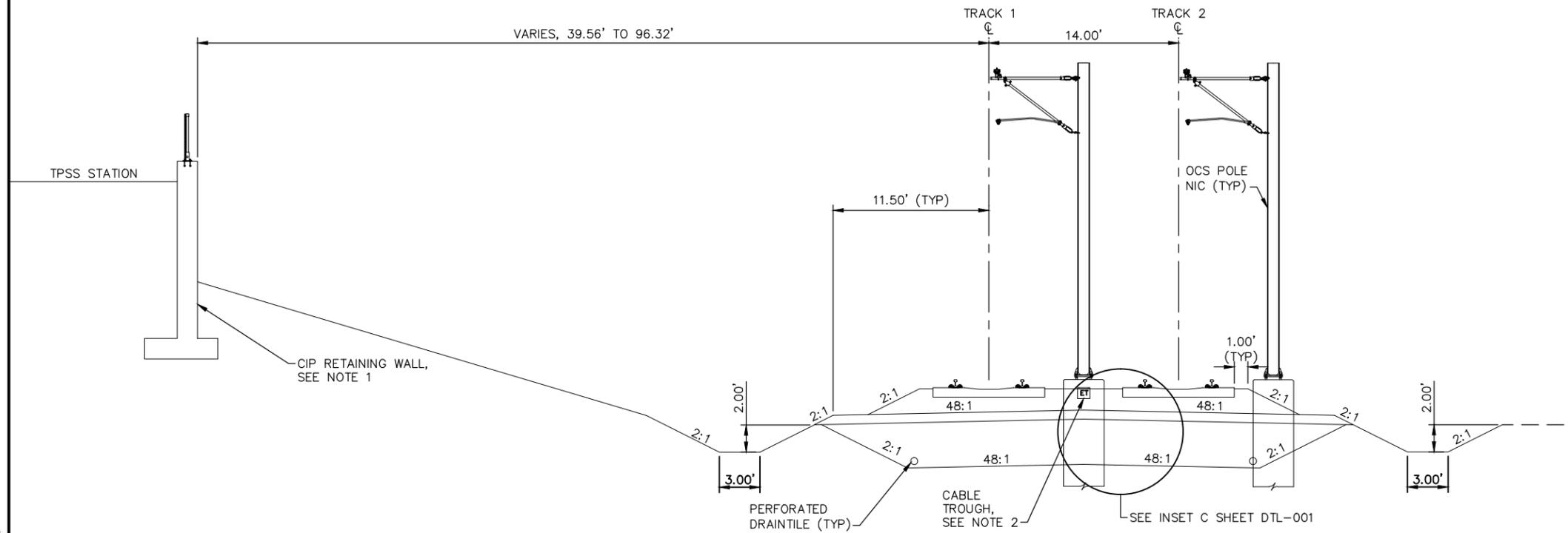


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

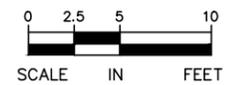
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 026

SHEET
 101
 OF
 189

- NOTES:
 1. SEE RETAINING WALL PLANS FOR DETAILS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2377+38.63 TO STA. 2379+16.61



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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60% SUBMISSION - 09/28/15

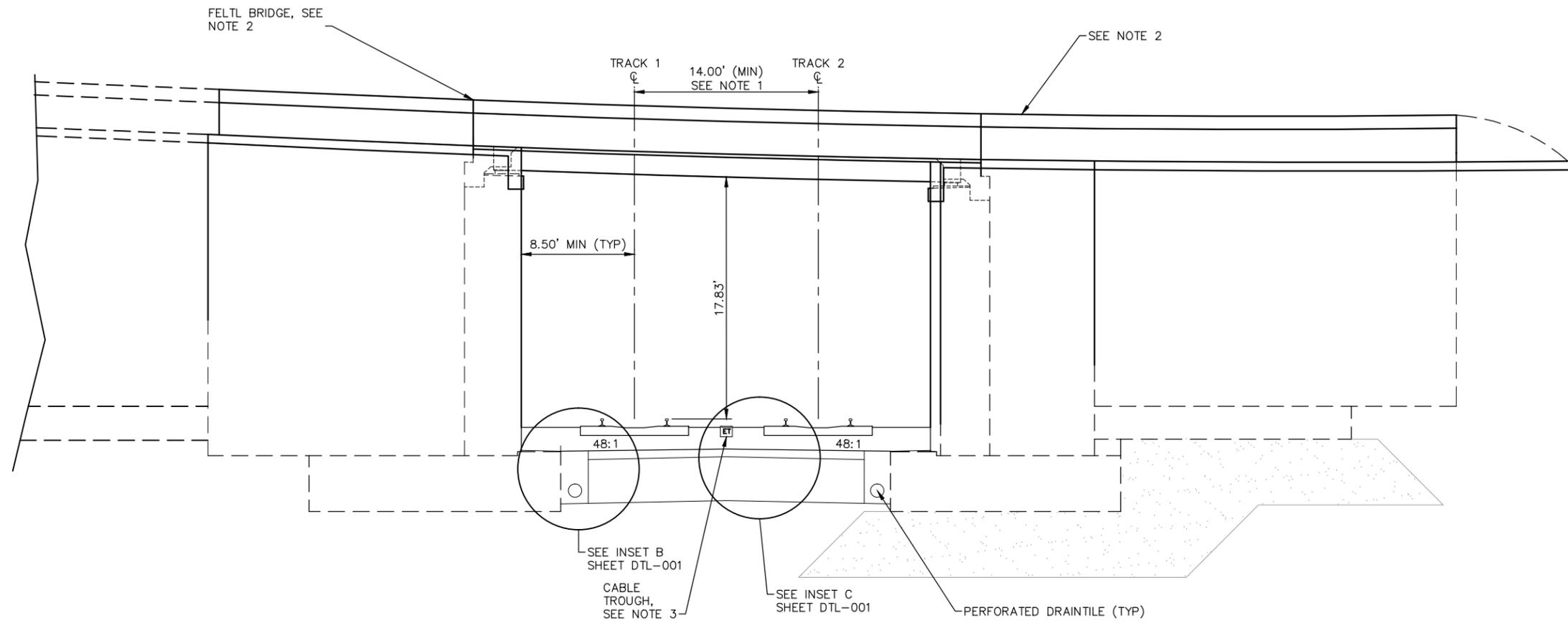


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 027

SHEET
 102
 OF
 189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-205. SEE TRACK PLANS.
 2. Mn/DOT BRIDGE 27C08. SEE STRUCTURAL PLANS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2379+16.61 TO STA. 2379+68.64

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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

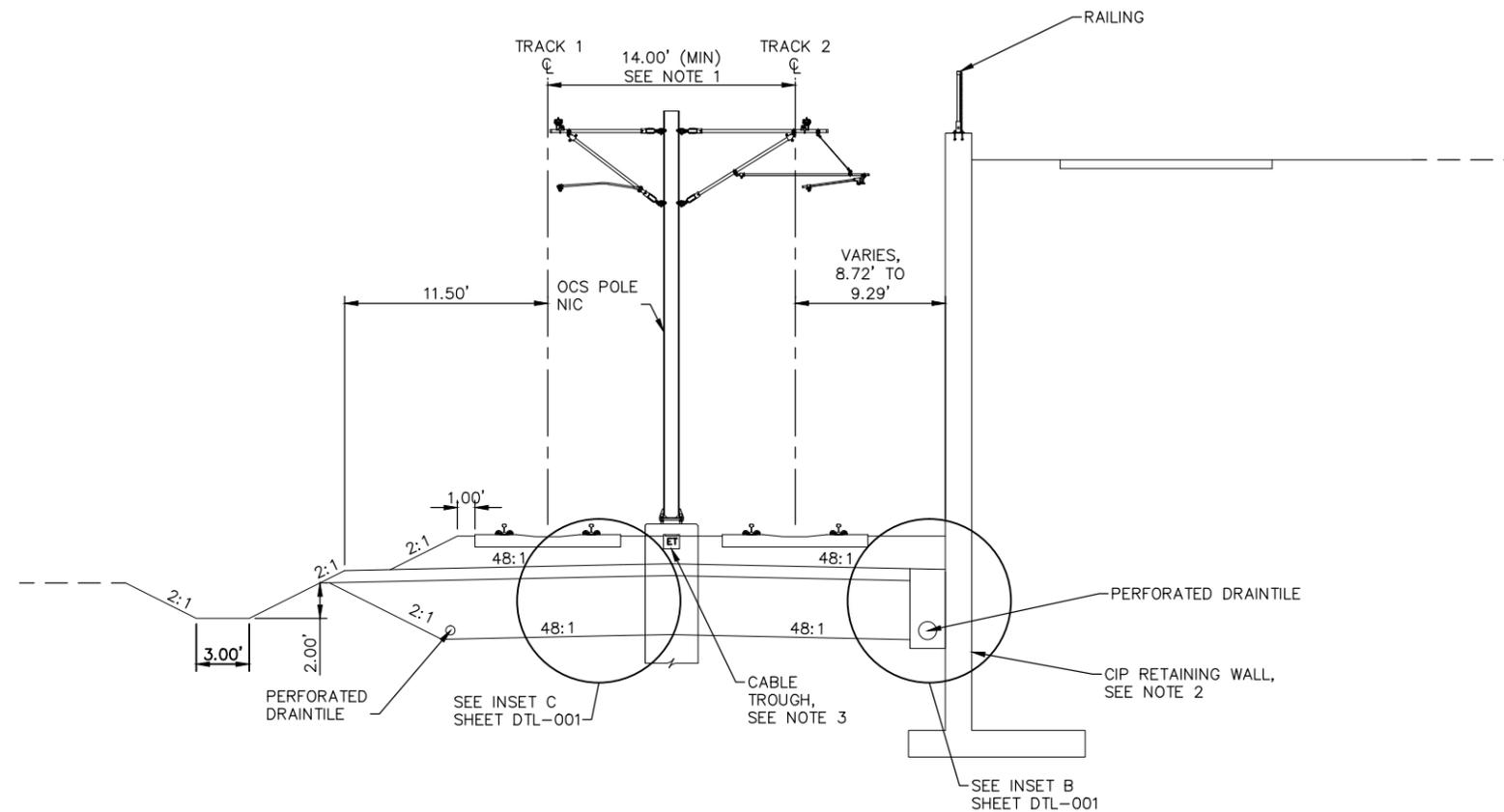


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

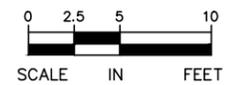
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 028

**SHEET
 103
 OF
 189**

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-205. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2379+68.64 TO STA. 2380+60.35



Sep. 21 2015 02:11 am V:\3400_ADC\CAD\CAD_00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

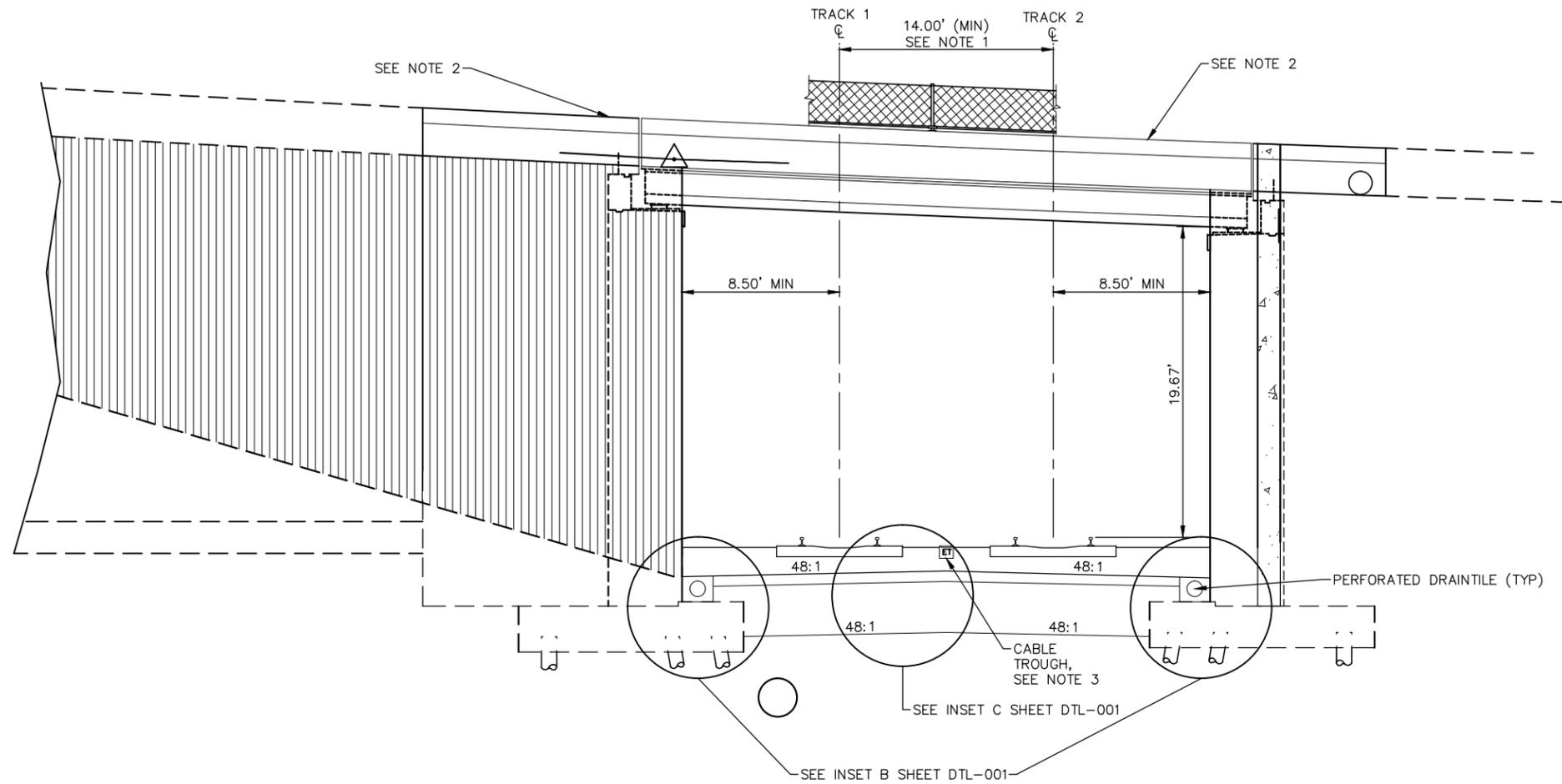
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

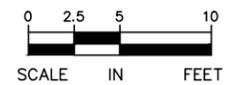
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 029

SHEET
 104
 OF
 189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-205. SEE TRACK PLANS.
 2. Mn/DOT BRIDGE 27C08. SEE STRUCTURAL PLANS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2380+60.35 TO 2381+55.10



Sep. 21 2015 02:11 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



AECOM

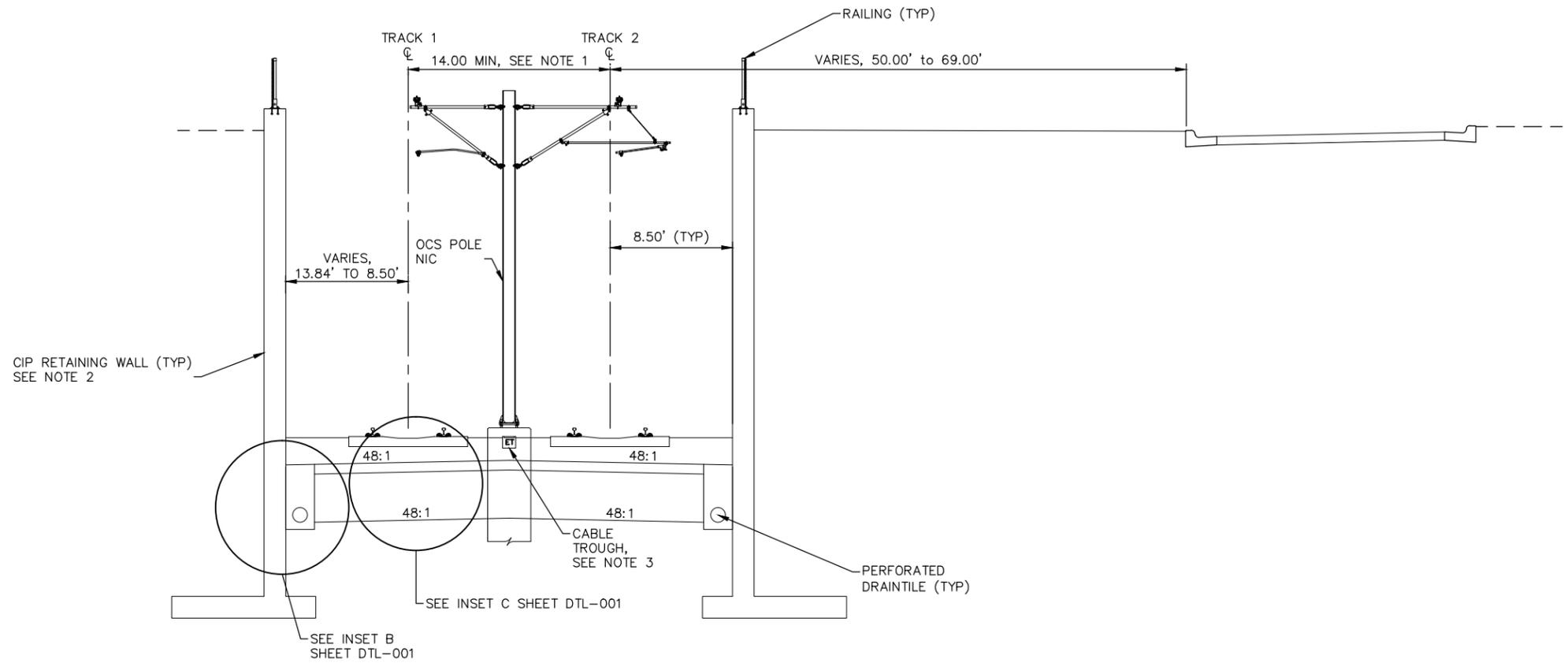
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

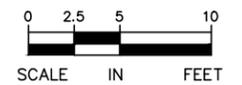
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 030

SHEET
 105
 OF
 189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-205. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2381+53.66 TO STA. 2382+86.36



Sep. 21 2015 02:11 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

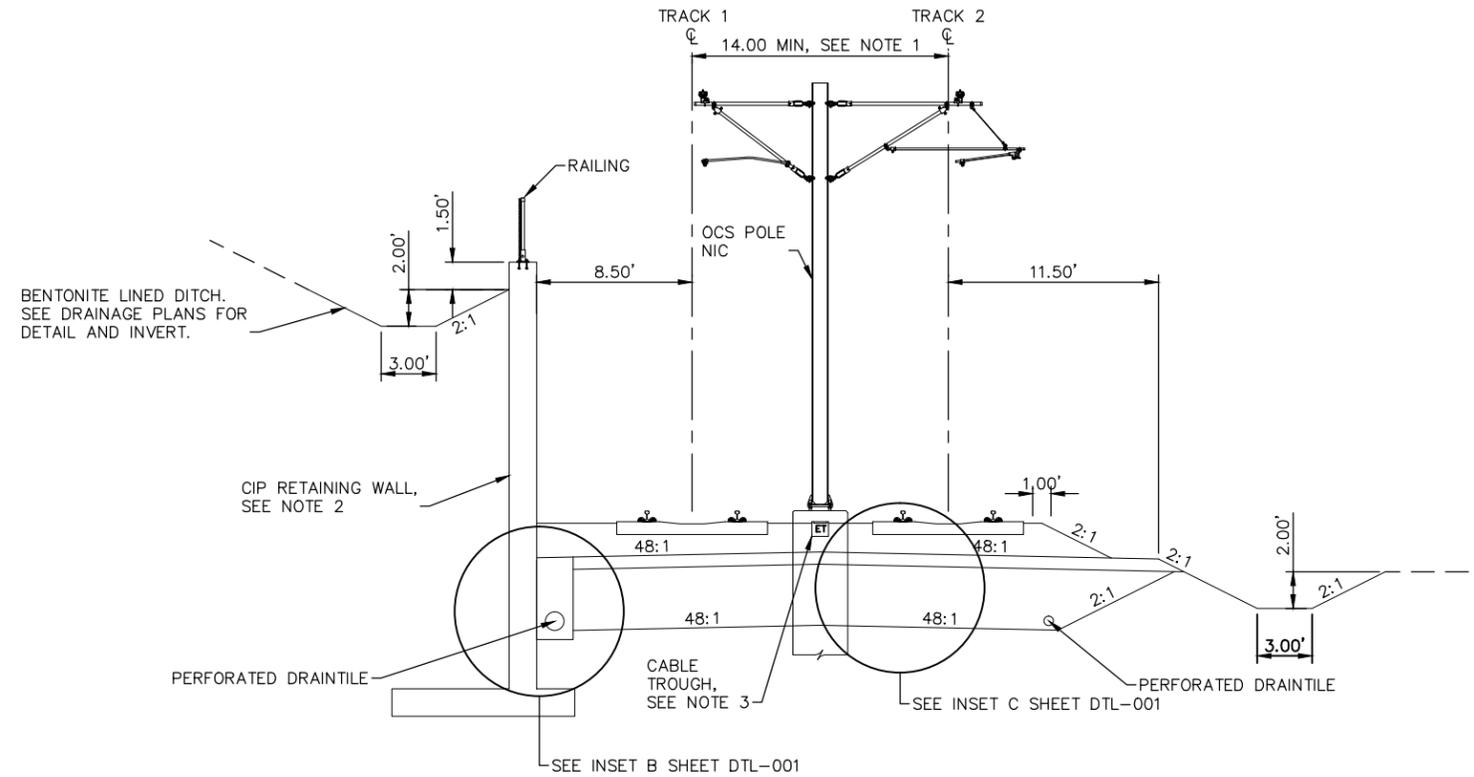


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

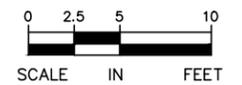
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 031

SHEET
 106
 OF
 189

- NOTES:
1. TRACK CENTERS IN CURVE W3-205, SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2382+86.36 TO STA. 2384+15.89



Sep. 21 2015 02:12 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



AECOM

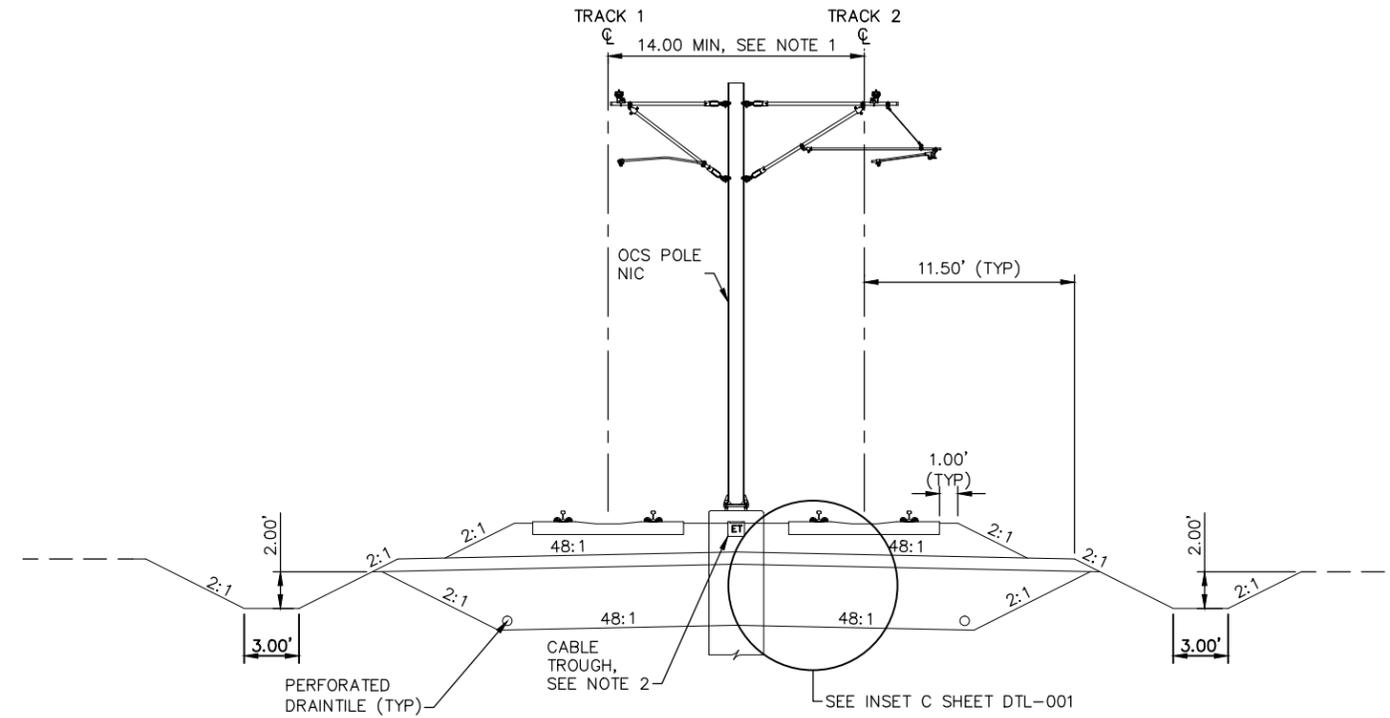
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

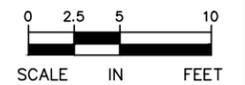
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 032

SHEET
 107
 OF
 189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-205, SEE TRACK PLANS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2384+15.89 TO STA. 2384+91.88



Sep. 21 2015 02:12 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisBM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



AECOM

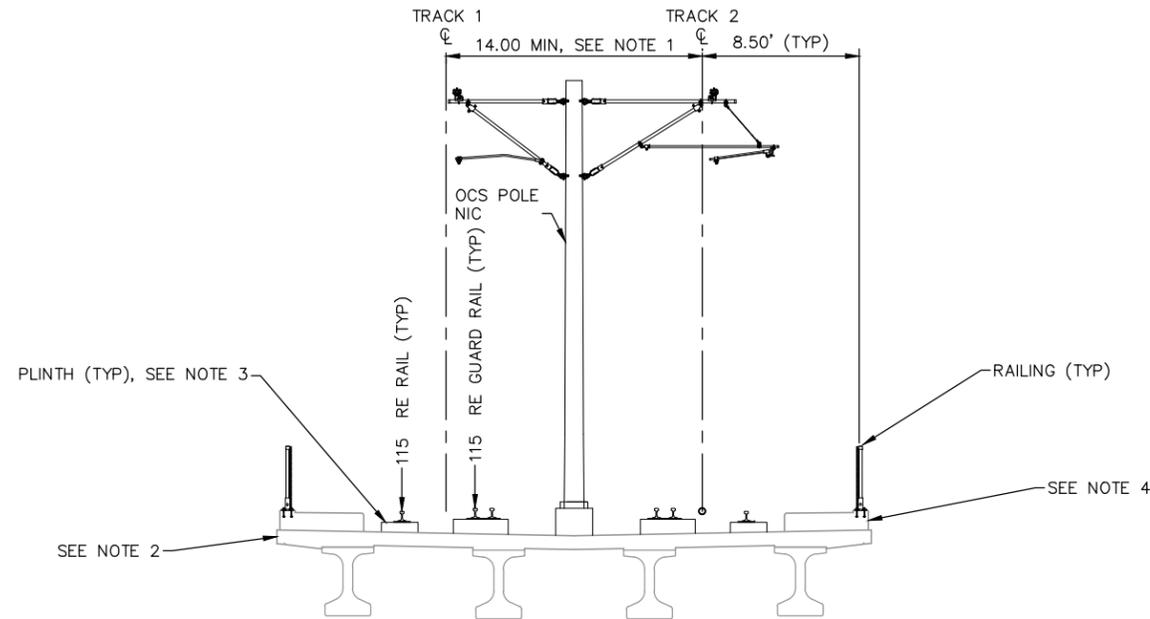
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

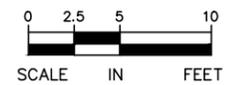
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 033

SHEET
 108
 OF
 189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-205, SEE TRACK PLANS.
 2. Mn/DOT BRIDGE R0686. SEE STRUCTURAL PLANS.
 3. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2384+91.88 TO STA. 2390+94.63



Sep. 21 2015 02:12 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

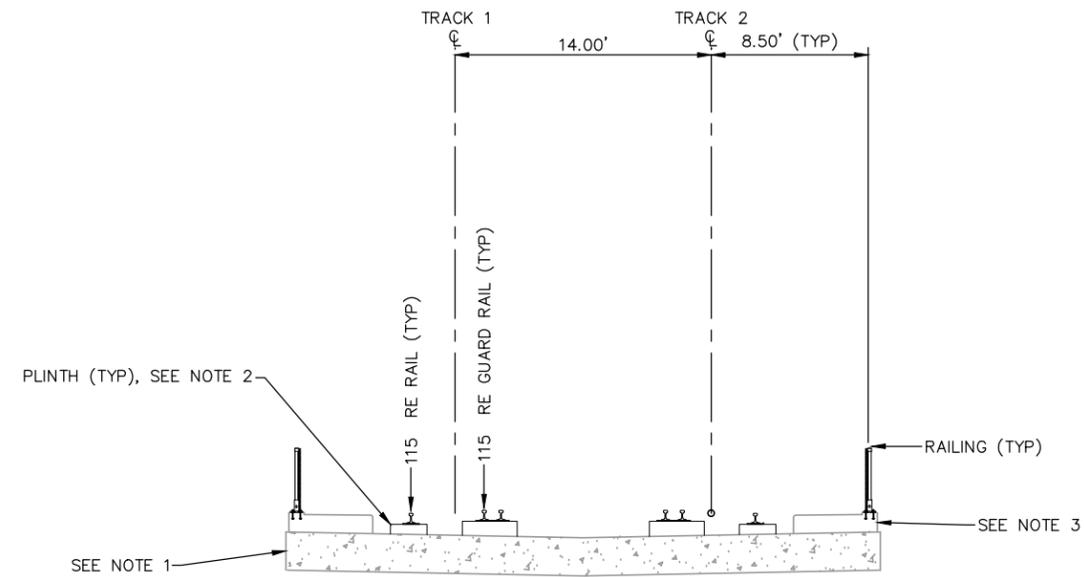


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

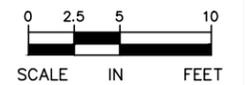
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 034

**SHEET
 109
 OF
 189**

- NOTES:
1. Mn/DOT BRIDGE R0686. SEE STRUCTURAL PLANS.
 2. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2390+94.63 TO STA. 2391+94.63



Sep. 21 2015 02:12 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisBM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

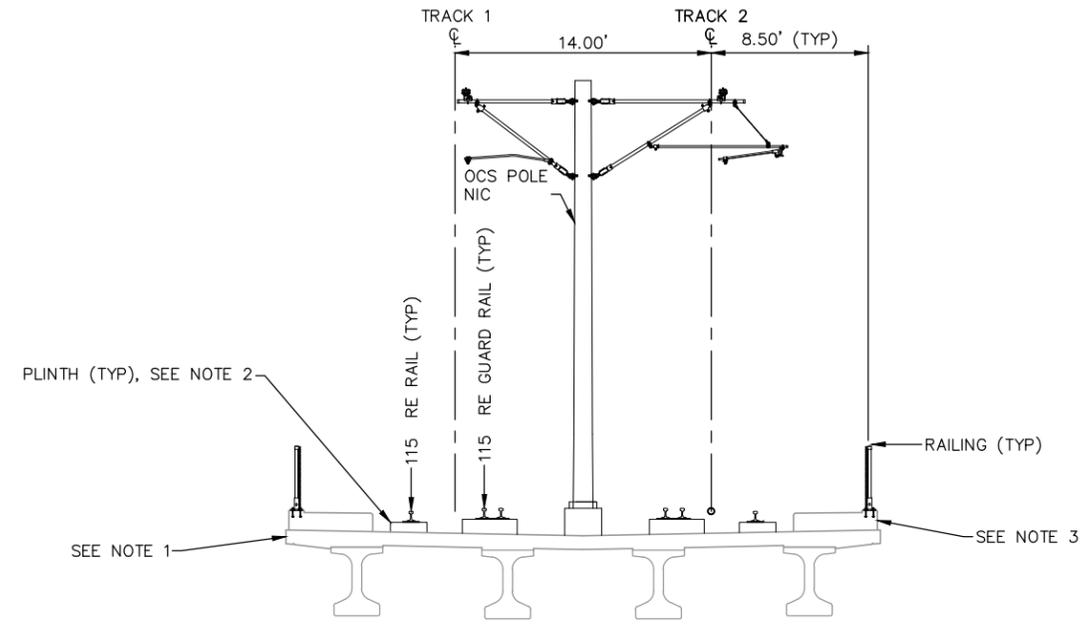


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

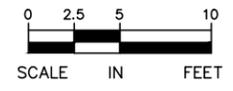
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 035

SHEET
 110
 OF
 189

- NOTES:
1. Mn/DOT BRIDGE R0686. SEE STRUCTURAL PLANS.
 2. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2391+94.63 TO STA. 2395+94.63



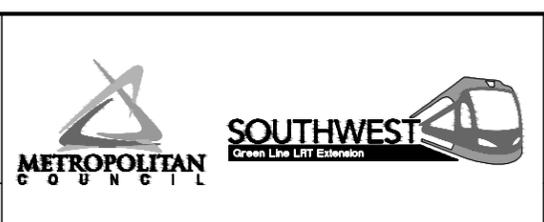
Sep. 21 2015 02:13 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

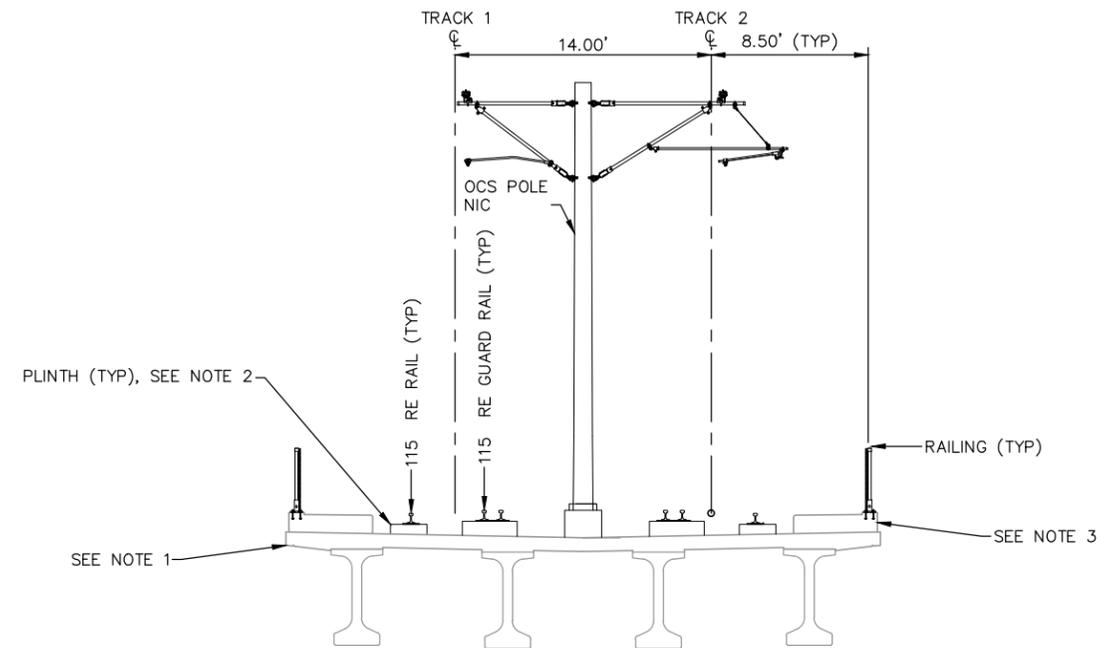


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

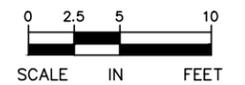
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 036

SHEET
 111
 OF
 189

- NOTES:
1. Mn/DOT BRIDGE R0686. SEE STRUCTURAL PLANS.
 2. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2395+94.63 TO STA. 2403+44.63



Sep. 21 2015 02:13 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisBM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

METROPOLITAN COUNCIL

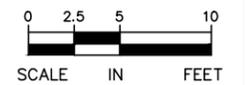
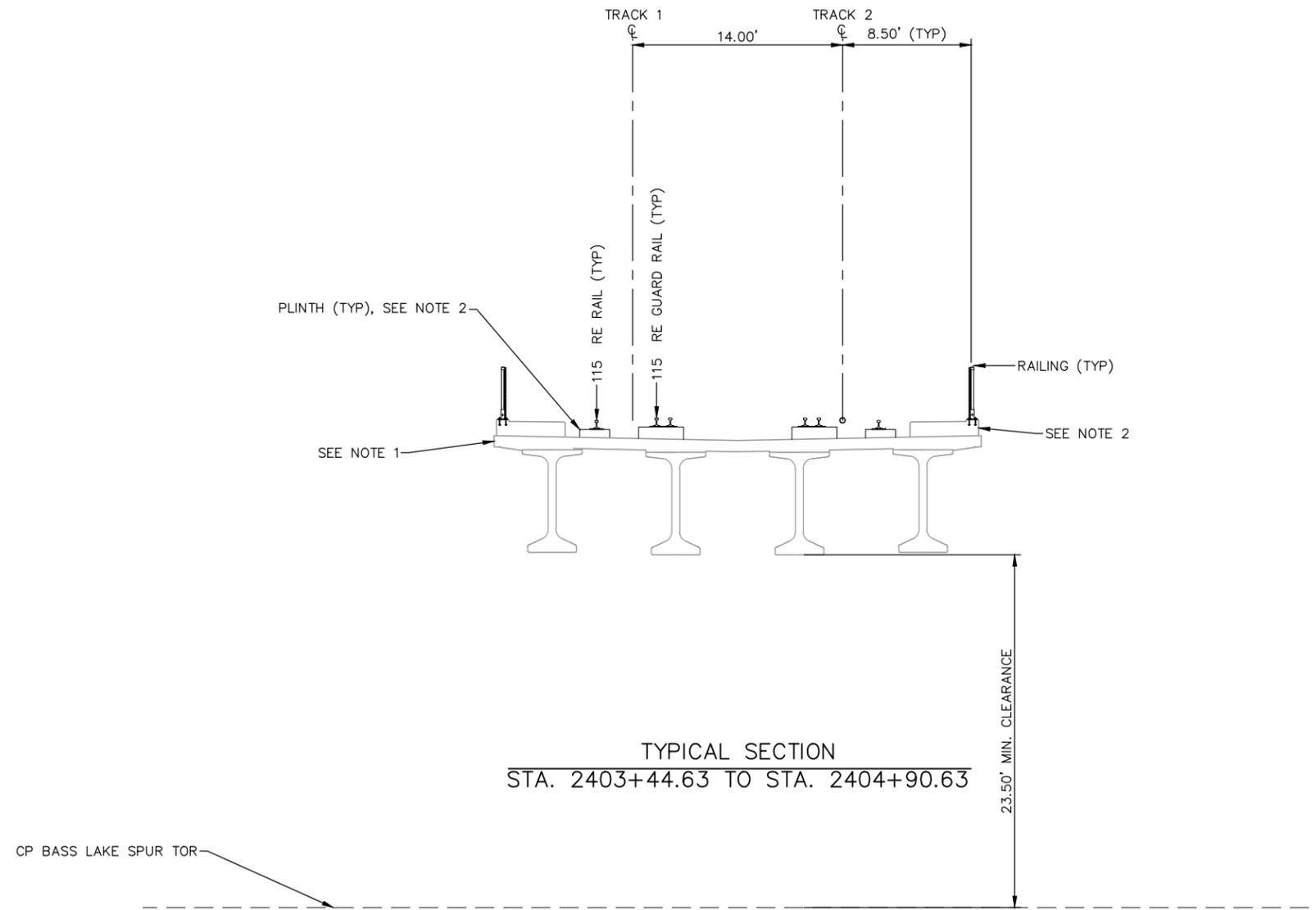
SOUTHWEST
Green Line Light Extension

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

DISCIPLINE: **TRACK** SHEET NAME: **W3-TRK-TYP - 037**

SHEET
112
OF
189

- NOTES:
- Mn/DOT BRIDGE R0686. SEE STRUCTURAL PLANS. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 - SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



Sep. 21 2015 02:13 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisBM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

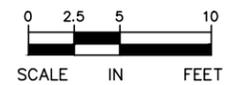
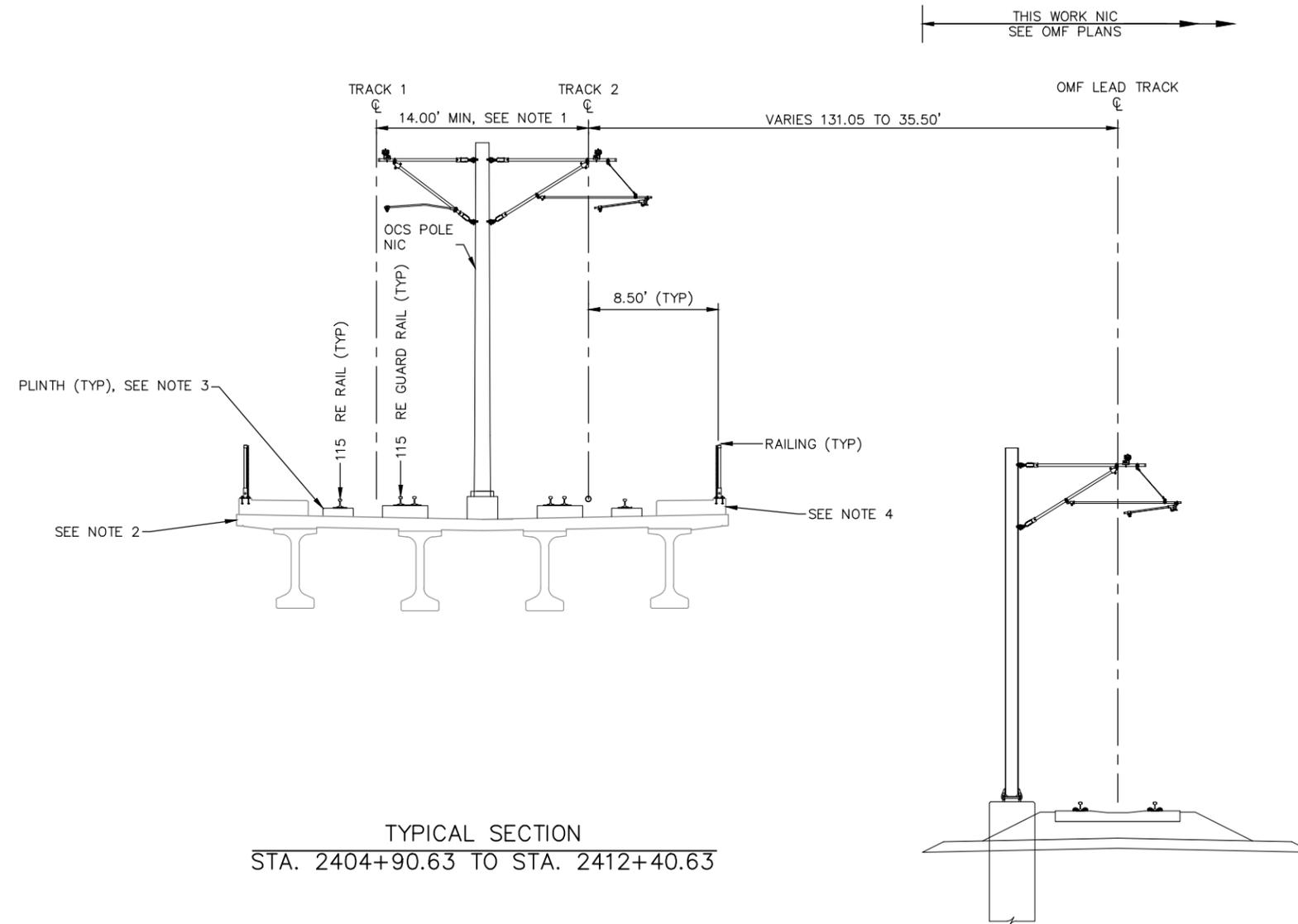


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 038

SHEET
113
OF
189

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-206, SEE TRACK PLANS.
 2. Mn/DOT BRIDGE R0686. SEE STRUCTURAL PLANS.
 3. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 4. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



Sep. 21 2015 02:13 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisBM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

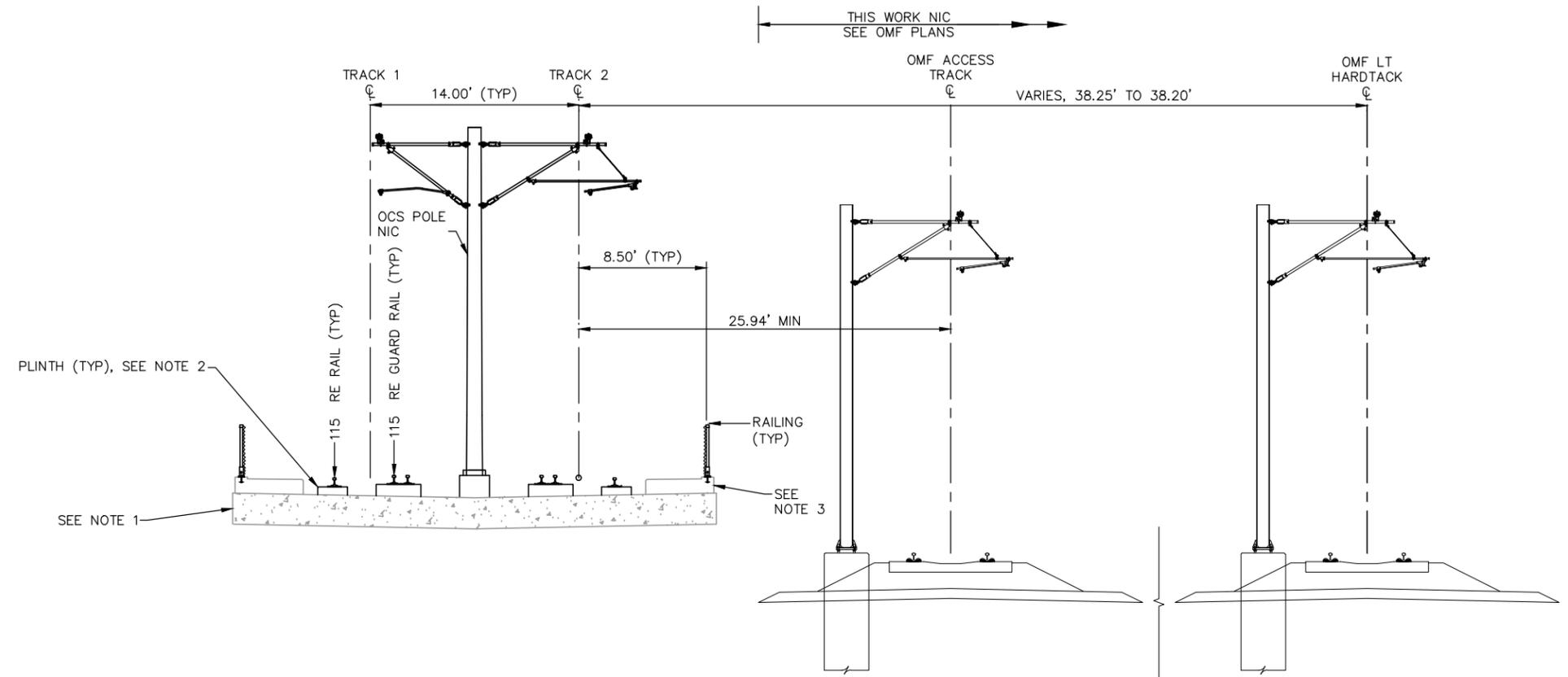


**CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS**

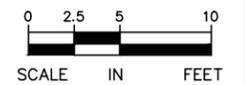
DISCIPLINE: TRACK
SHEET NAME: W3-TRK-TYP - 039

**SHEET
114
OF
189**

- NOTES:
1. Mn/DOT BRIDGE R0686. SEE STRUCTURAL PLANS.
 2. SEE TRACK DETAILS FOR PLINTH LAYOUT.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2412+40.63 TO STA. 2414+91.63



Sep. 21 2015 02:14 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

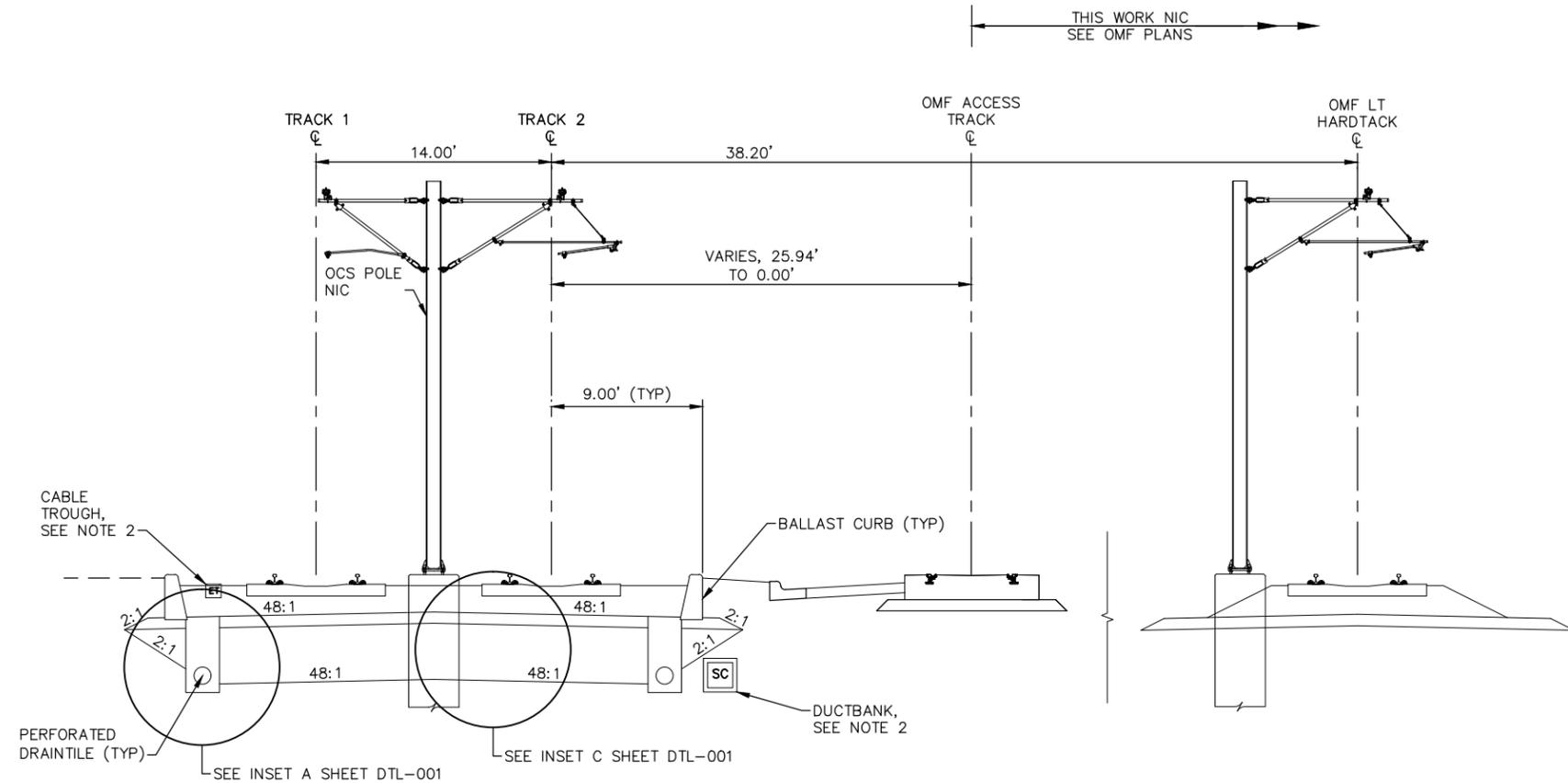


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

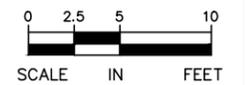
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 040

**SHEET
 115
 OF
 189**

- NOTES:
 1. SPECIAL TRACKWORK NOT ILLUSTRATED.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2414+91.63 TO STA. 2417+46.68



Sep. 21 2015 02:14 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

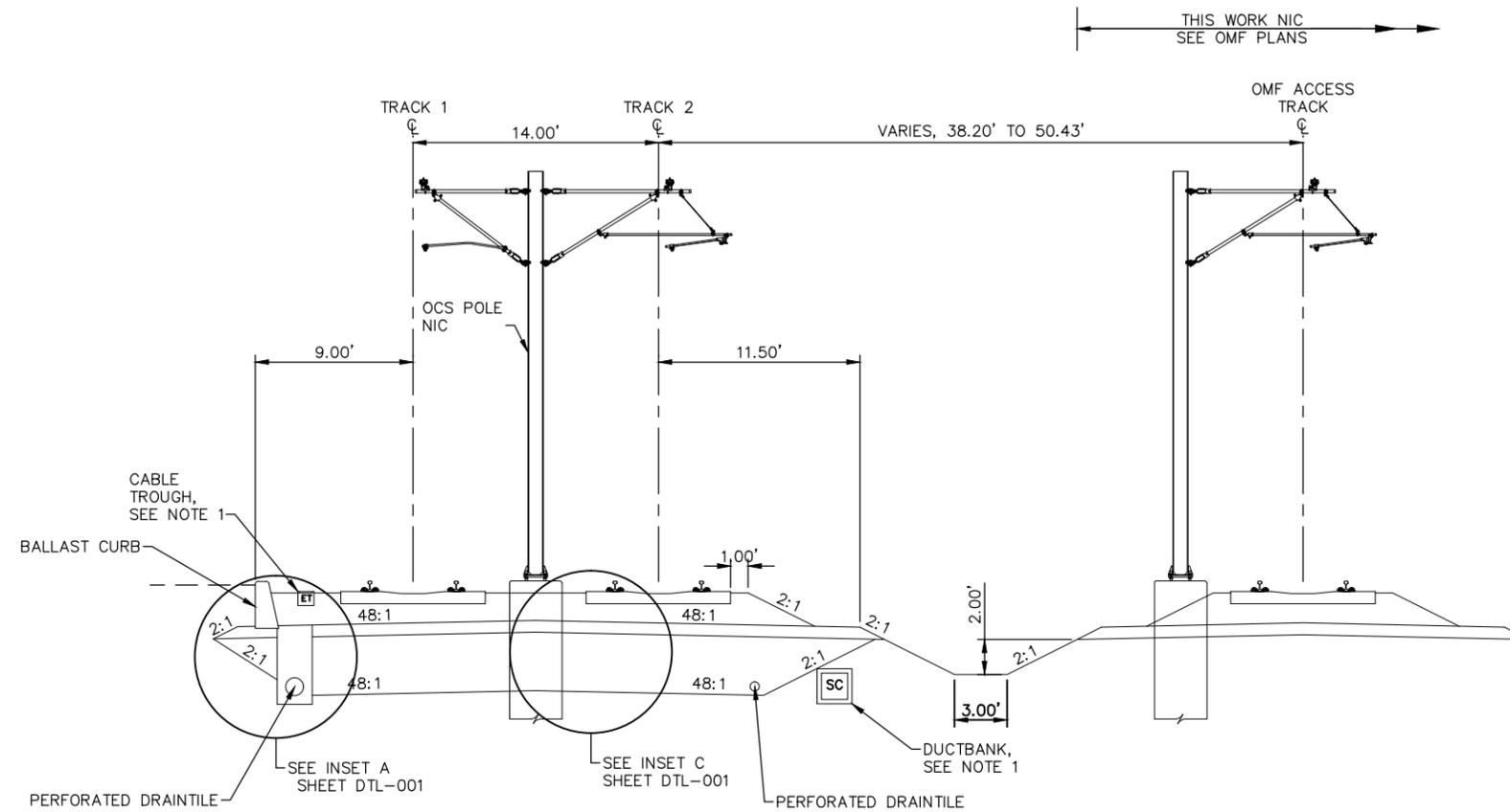


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

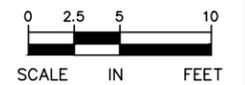
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 041

SHEET
 116
 OF
 189

- NOTES:
 1. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 2. SPECIAL TRACKWORK NOT ILLUSTRATED.



TYPICAL SECTION
 STA. 2417+46.68 TO STA. 2418+09.83



Sep. 21 2015 02:14 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



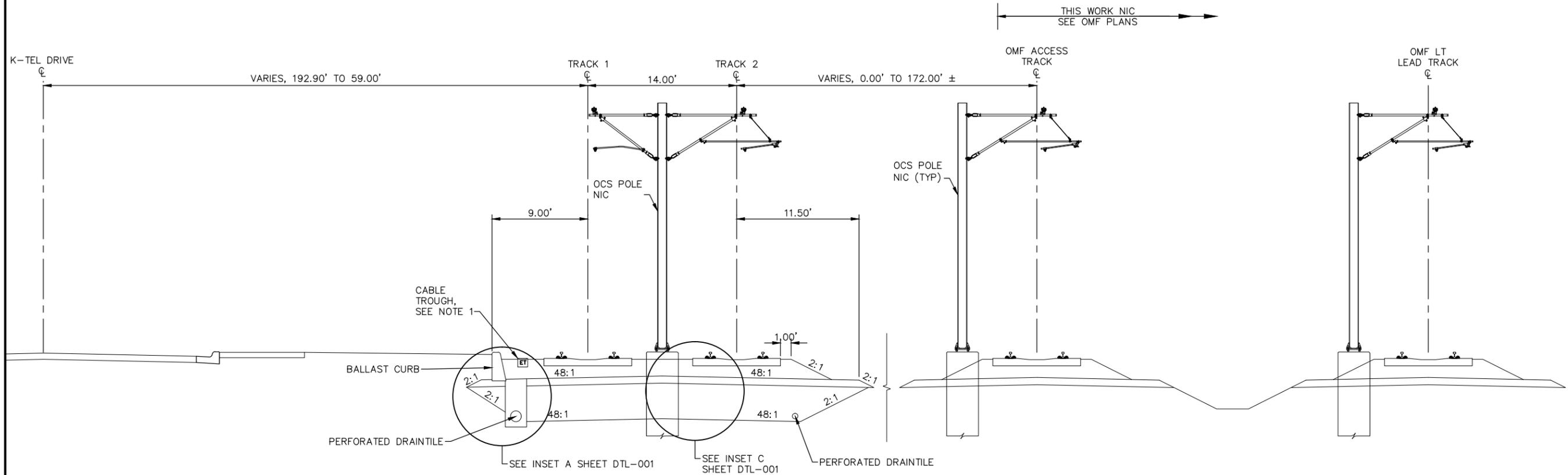
AECOM
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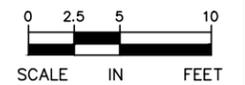
CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS
 DISCIPLINE: TRACK
 SHEET NAME: W3-TRK-TYP - 042

SHEET
 117
 OF
 189

- NOTES:
 1. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 2. SPECIAL TRACKWORK NOT ILLUSTRATED.



TYPICAL SECTION
 STA. 2418+09.83 TO 2420+35.82



Sep. 21 2015 02:15 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

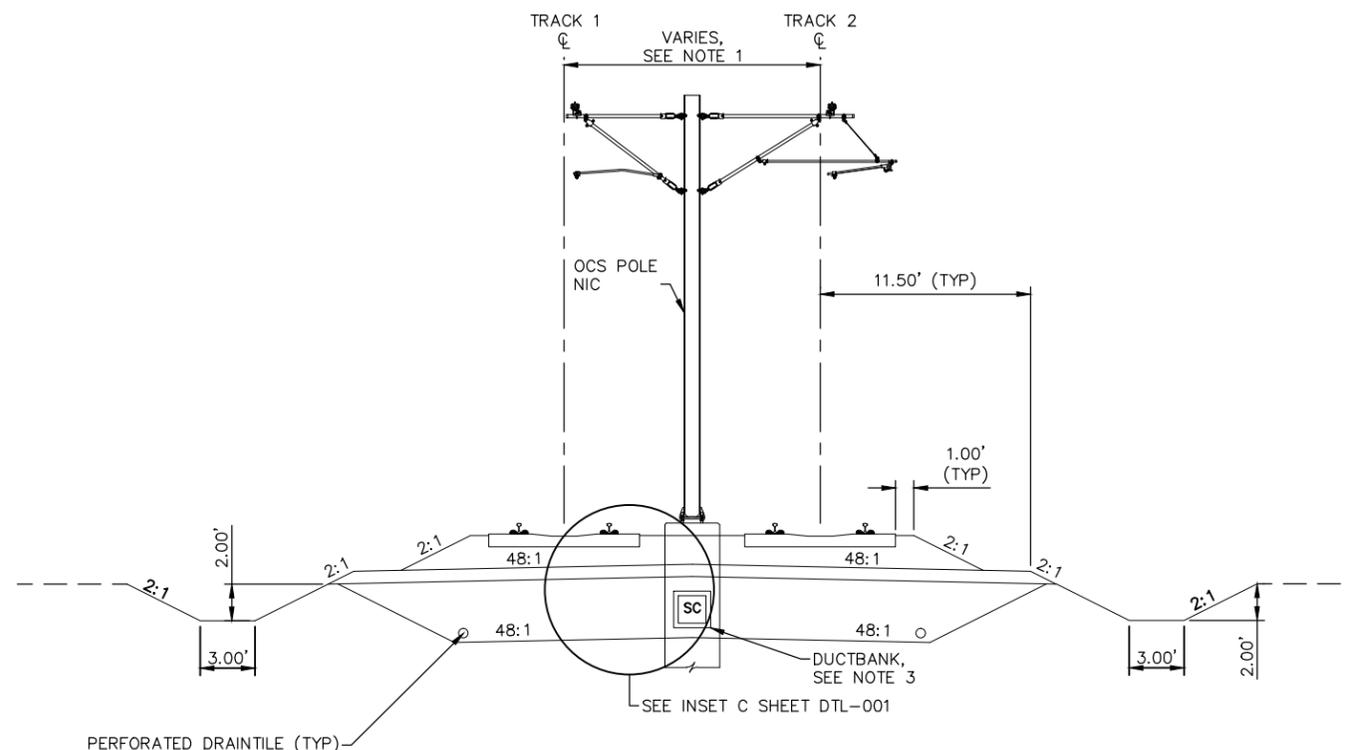


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

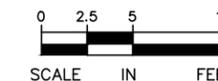
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 043

SHEET
 118
 OF
 189

- NOTES:
1. TRACK CENTERS WIDEN FROM 14.00' TO 17.89' BETWEEN STATION 2420+82.83 TO 2421+50.00.
 2. SECTION DOES NOT ILLUSTRATE GRADE CROSSING AT K-TEL DRIVE. SEE TRACK PLANS AND DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2420+35.82 TO STA. 2421+50.00



Sep. 21 2015 02:15 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

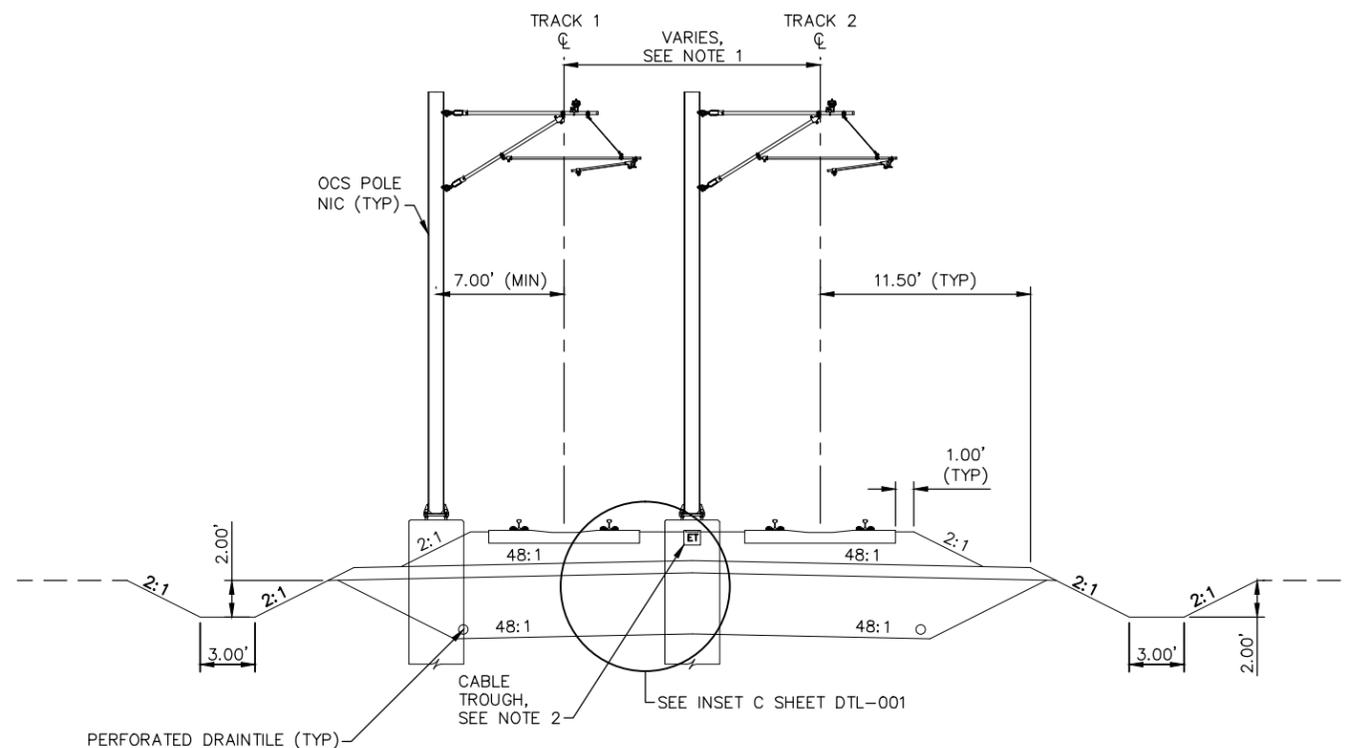
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

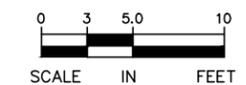
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 044

SHEET
 119
 OF
 189

- NOTES:
1. TRACK CENTERS WIDEN FROM 17.89' TO 20.00' BETWEEN STATION 2421+50.00 TO 2421+63.94.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2421+50.00 TO STA. 2421+63.94



Sep. 21 2015 02:15 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

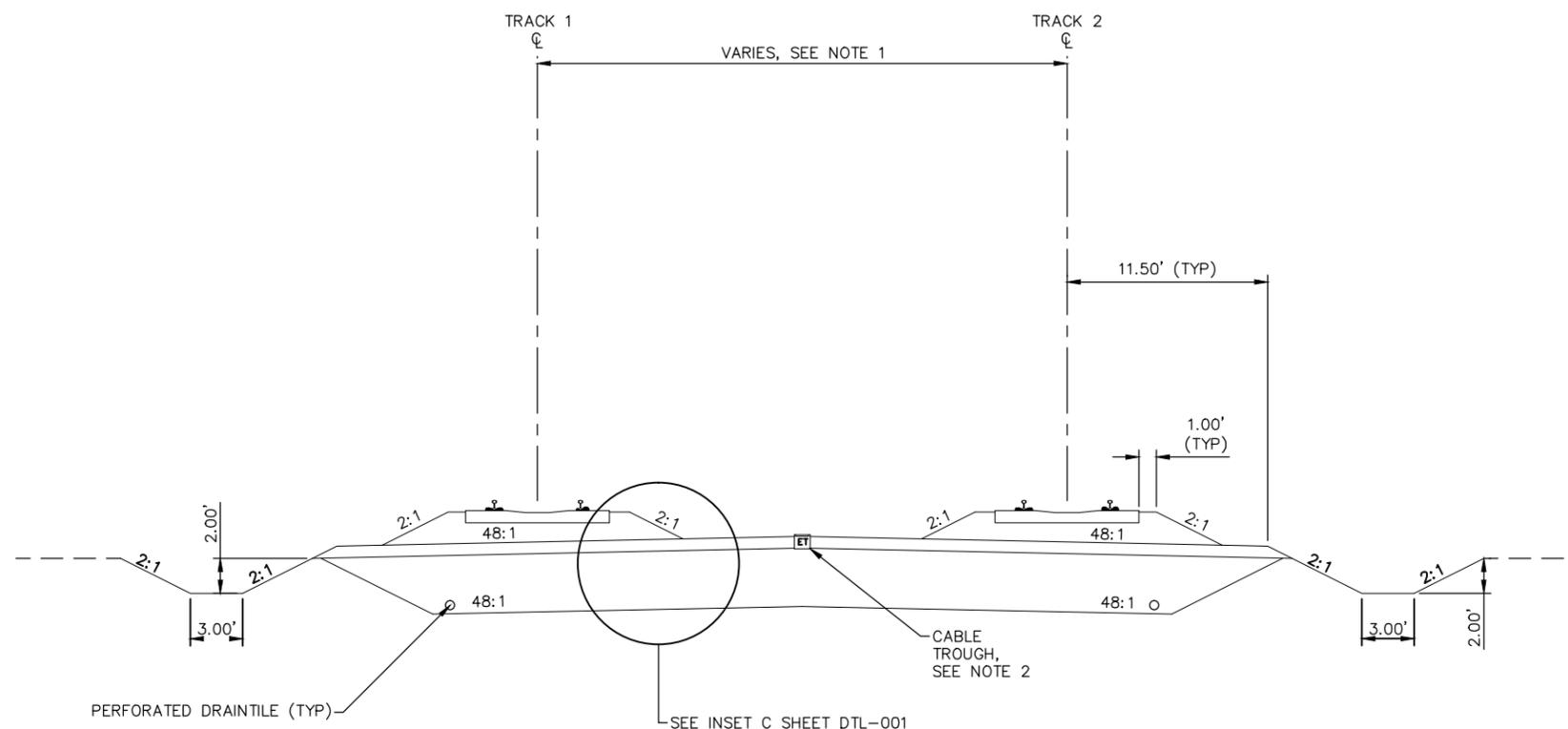
60% SUBMISSION - 09/28/15

**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

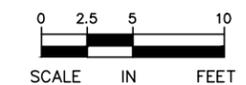
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 045

SHEET
 120
 OF
 189

- NOTES:
1. TRACK CENTERS WIDEN FROM 20.00' TO 25.12' BETWEEN STATION 2421+63.94 TO 2421+99.01.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.

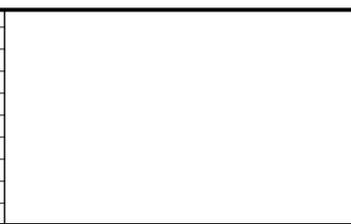


TYPICAL SECTION
 STA. 2421+63.94 TO STA. 2421+99.07



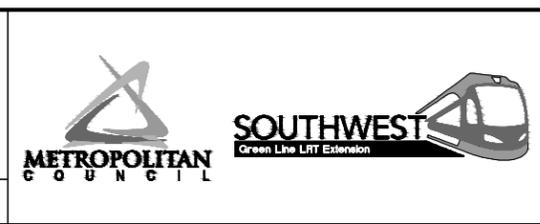
Sep. 21 2015 02:15 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 09/28/15

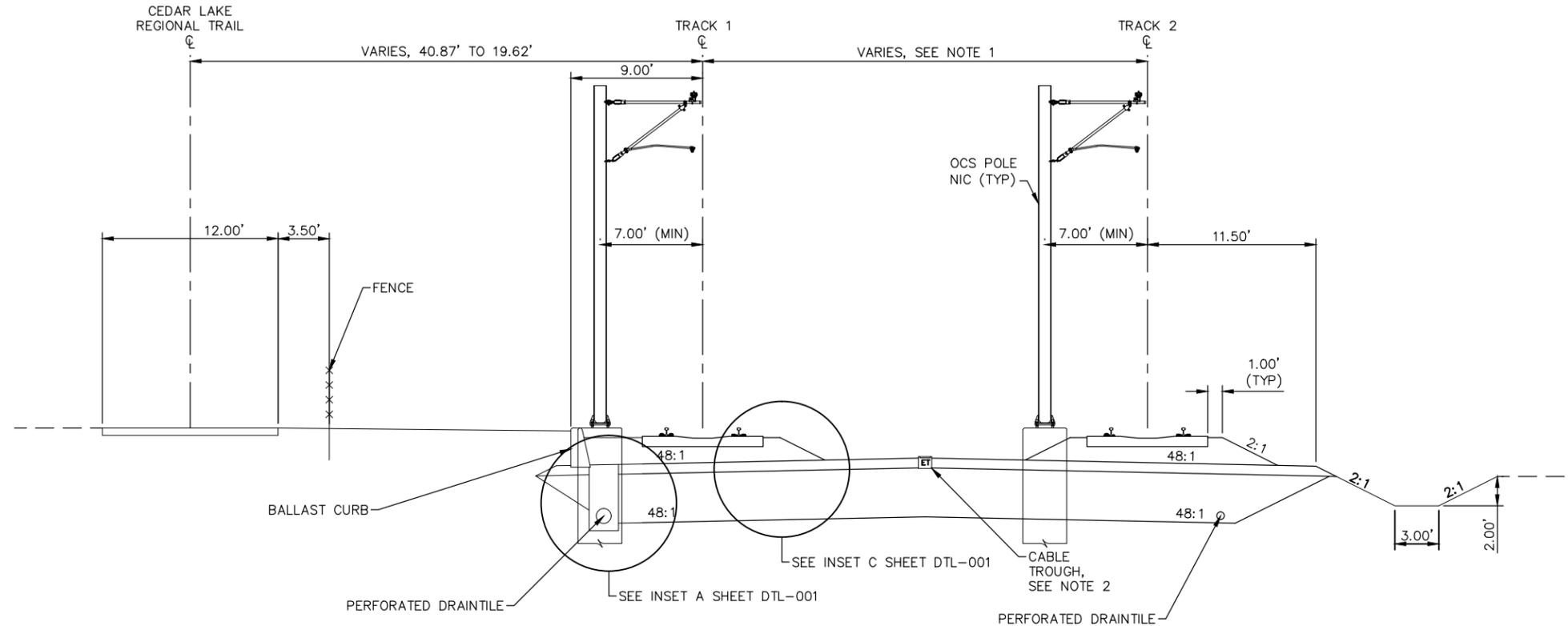


CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

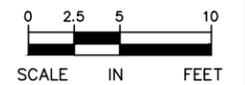
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 046

SHEET
 121
 OF
 189

- NOTES:
1. TRACK CENTERS WIDENS FROM 25.12' TO 30.38' BETWEEN STATION 2421+99.07 TO 2423+31.60.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2421+99.07 TO STA. 2423+81.60



Sep. 21 2015 02:16 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



AECOM

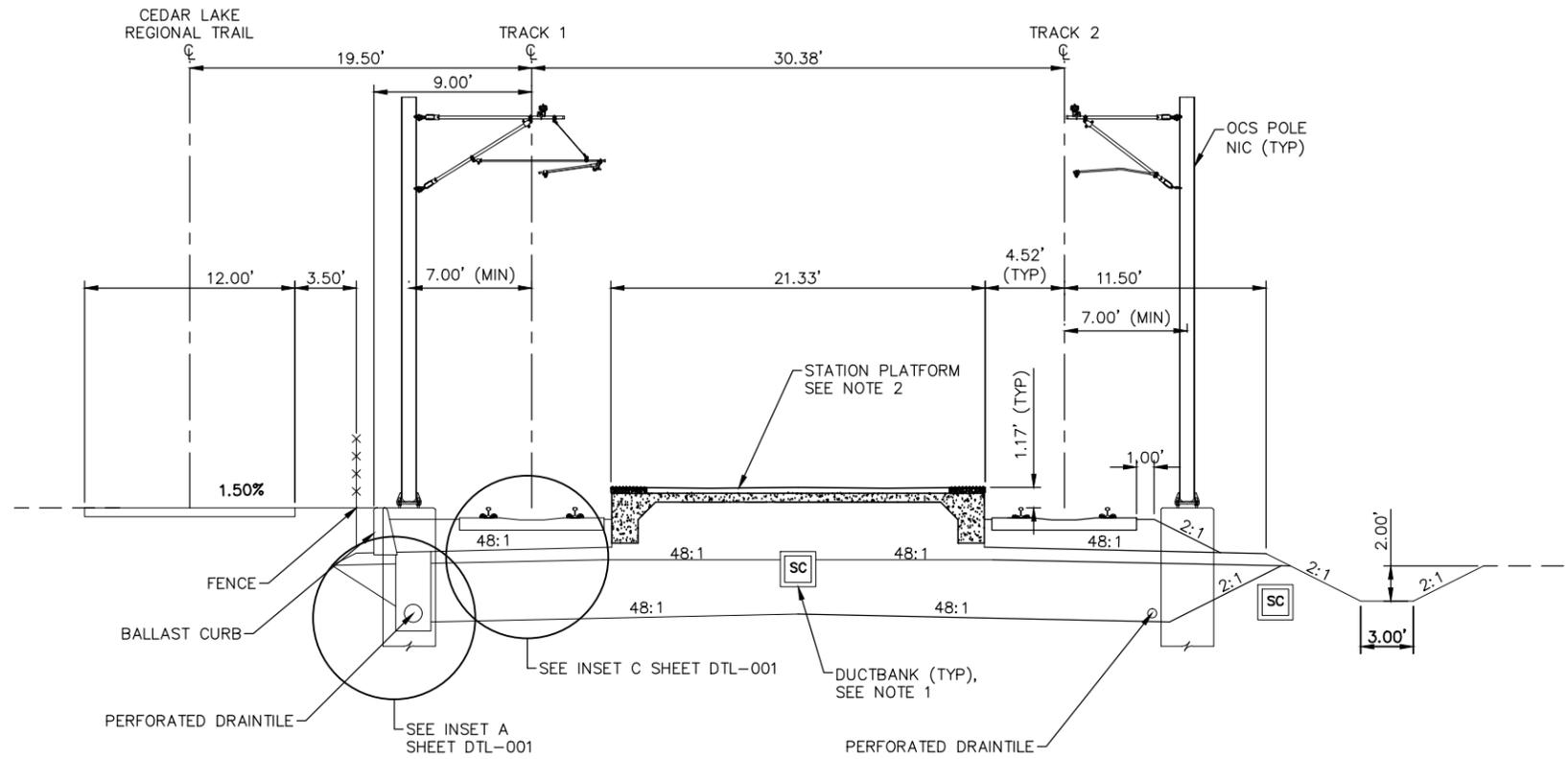
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS

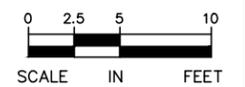
DISCIPLINE: **TRACK** SHEET NAME: **W3-TRK-TYP - 047**

SHEET
 122
 OF
 189

- NOTES:
 1. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 2. SEE STATION PLANS FOR STATION PLATFORM DETAILS.



TYPICAL SECTION - SHADY OAK STATION
 STA. 2423+81.60 TO STA. 2426+51.60



Sep. 21 2015 02:16 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

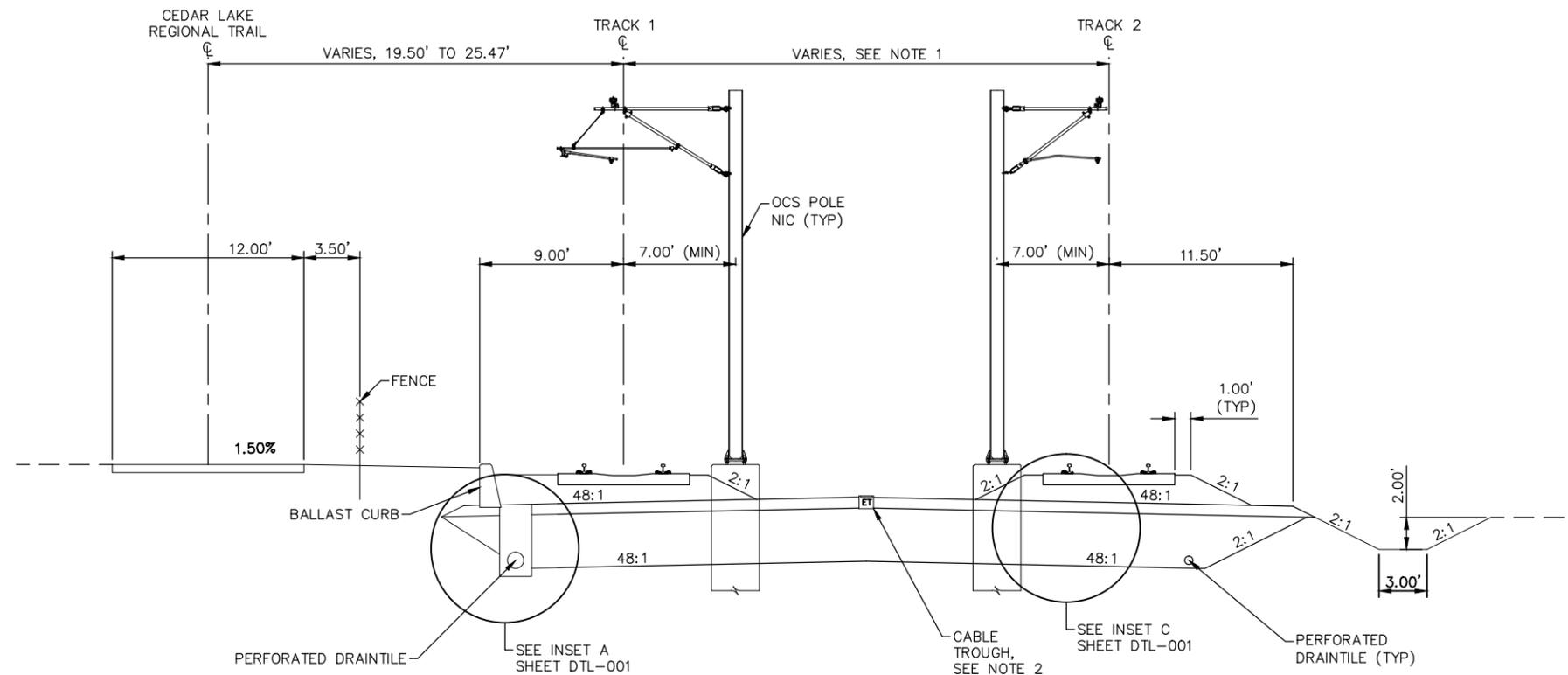


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

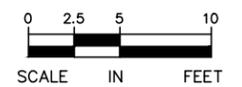
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 048

SHEET
 123
 OF
 189

- NOTES:**
1. TRACK CENTERS NARROW FROM 30.38' TO 24.40' BETWEEN STA. 2426+51.60 TO 2429+72.84.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2426+51.60 TO STA. 2429+72.84



Sep. 21 2015 02:16 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

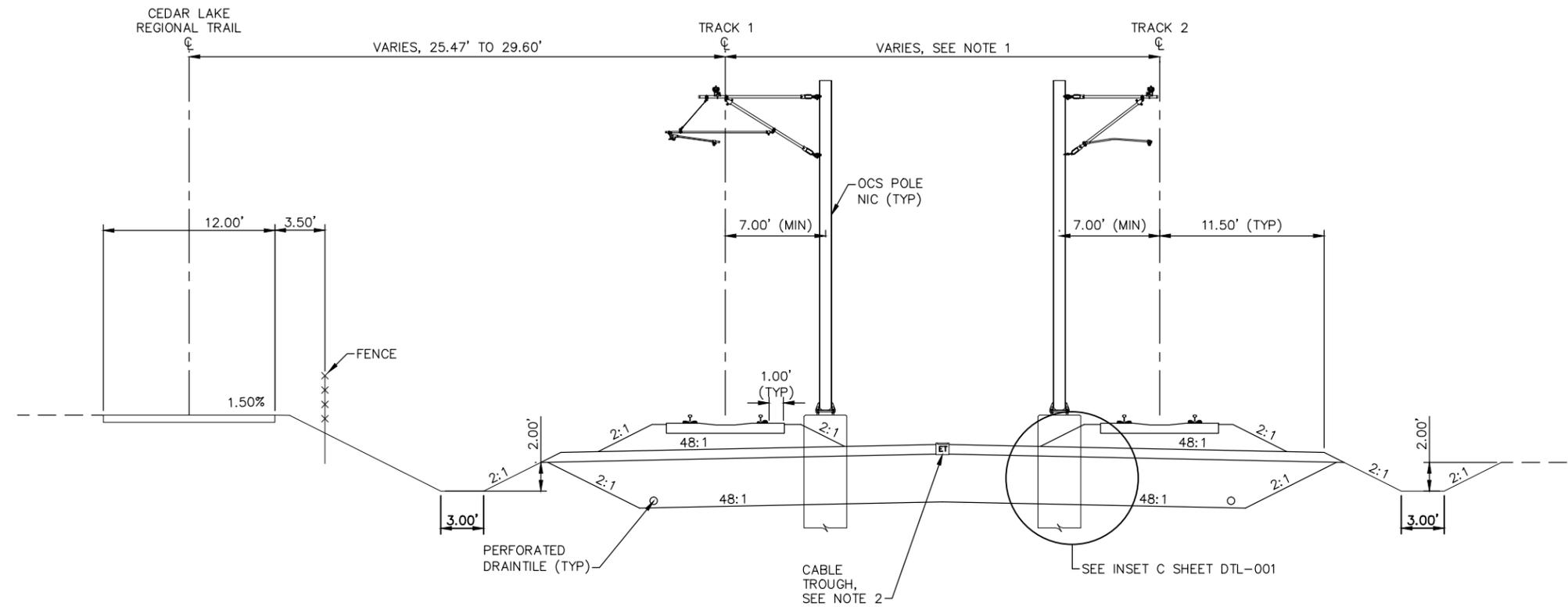


**CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS**

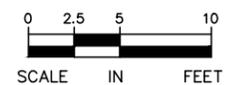
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 049

**SHEET
 124
 OF
 189**

- NOTES:
1. TRACK CENTERS NARROW FROM 24.40' TO 20.00' BETWEEN STA. 2429+71.84 TO 2430+71.93.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2429+71.84 TO STA. 2430+71.93

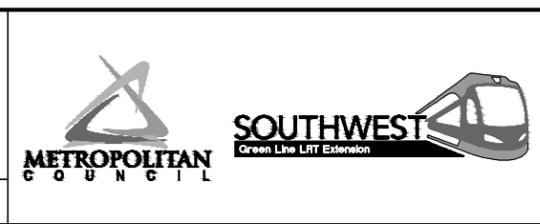


Sep. 21 2015 02:16 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisEM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

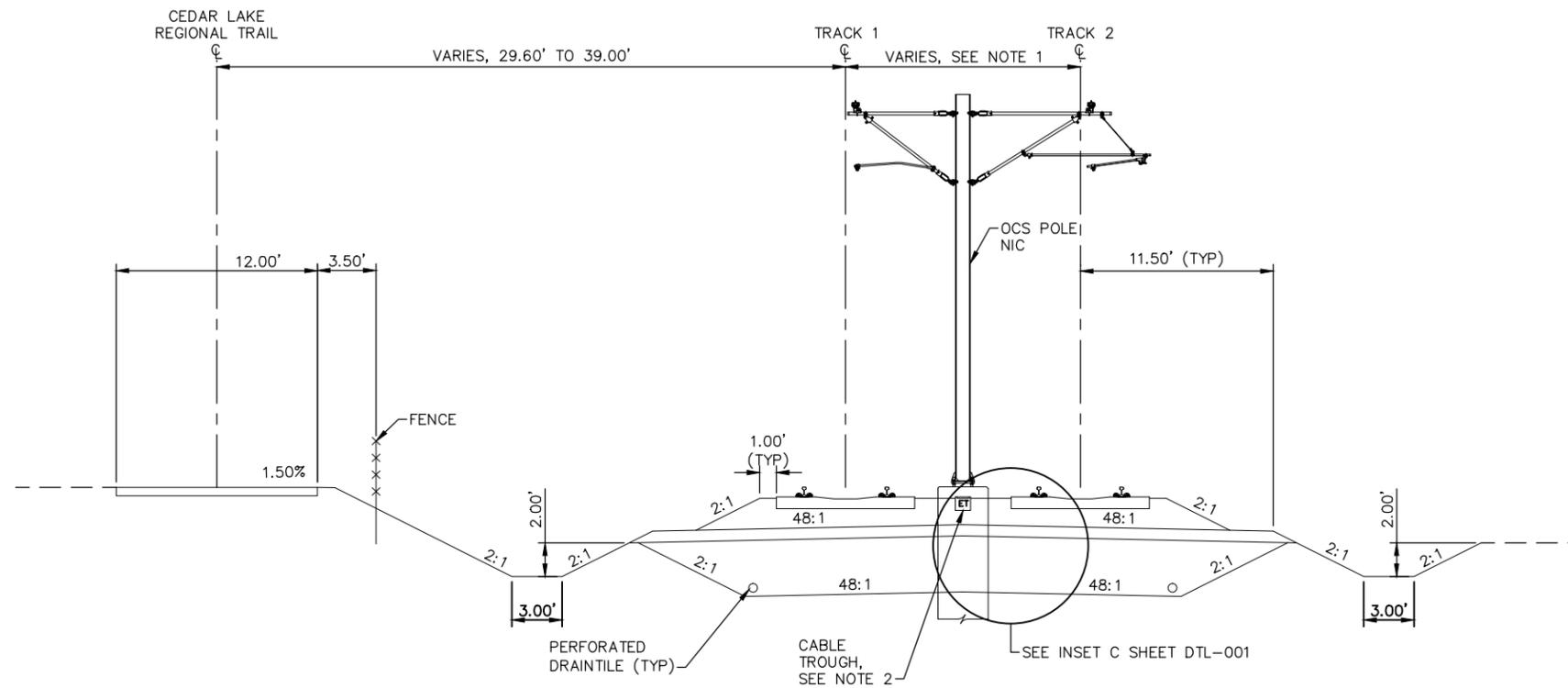


CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS

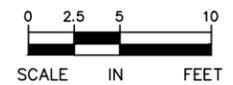
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 050

SHEET
 125
 OF
 189

- NOTES:
1. TRACK CENTERS NARROW FROM 20.00' TO 14.00' BETWEEN STA.2430+71.93 TO 2433+43.33.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA. 2430+71.93 TO STA. 2441+49.22



Sep. 21 2015 02:17 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-TYP.dwg By: MourisBM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



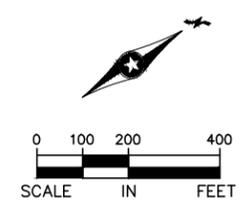
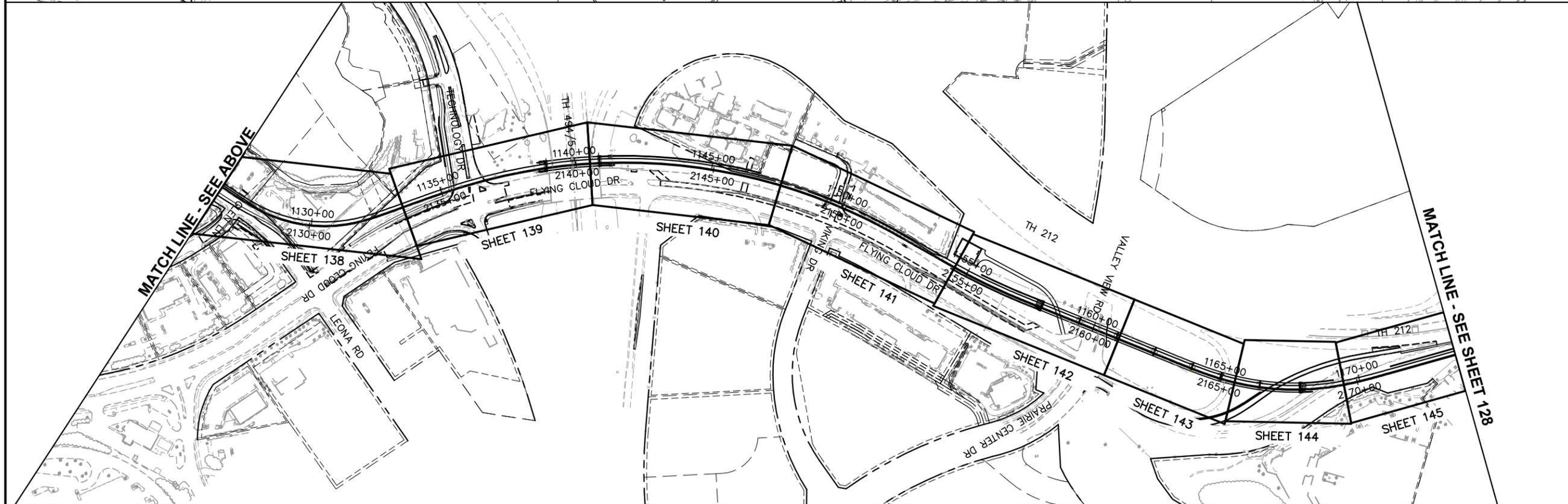
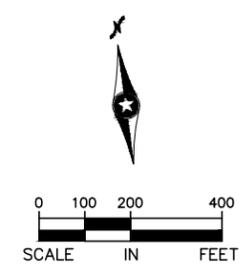
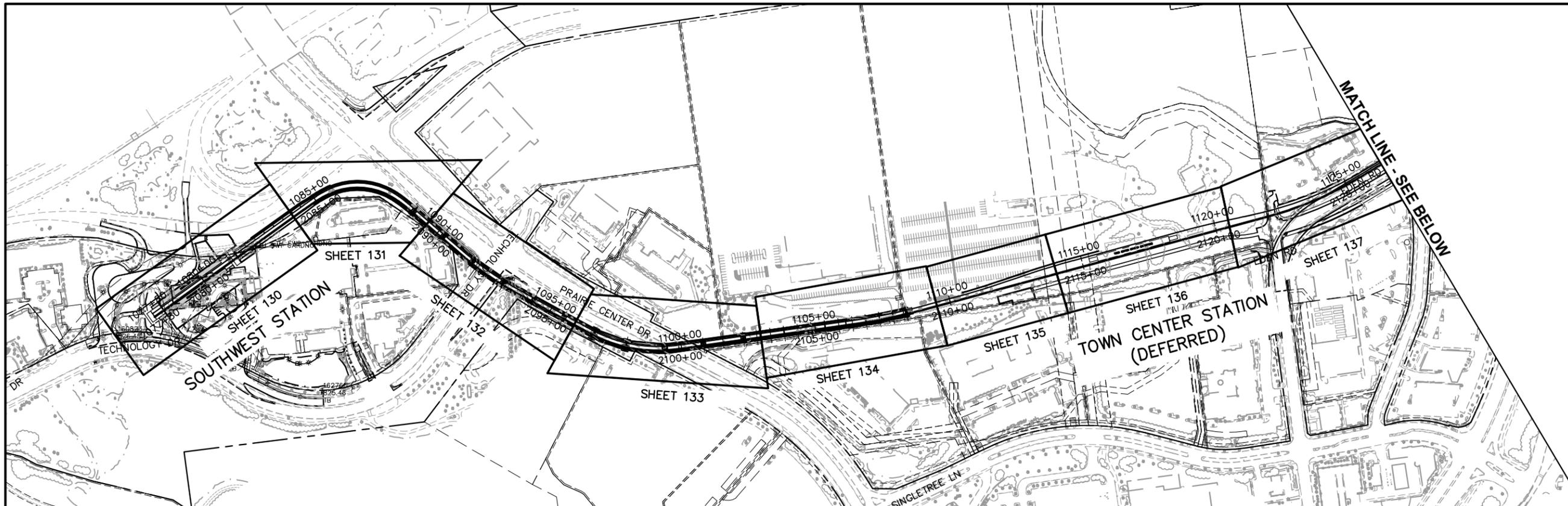
60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS

DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP - 051

SHEET
 126
 OF
 189



Sep. 21 2015 02:19 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-LAY.dwg By: MaurisBM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

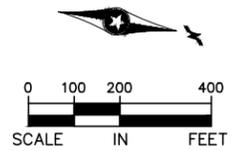
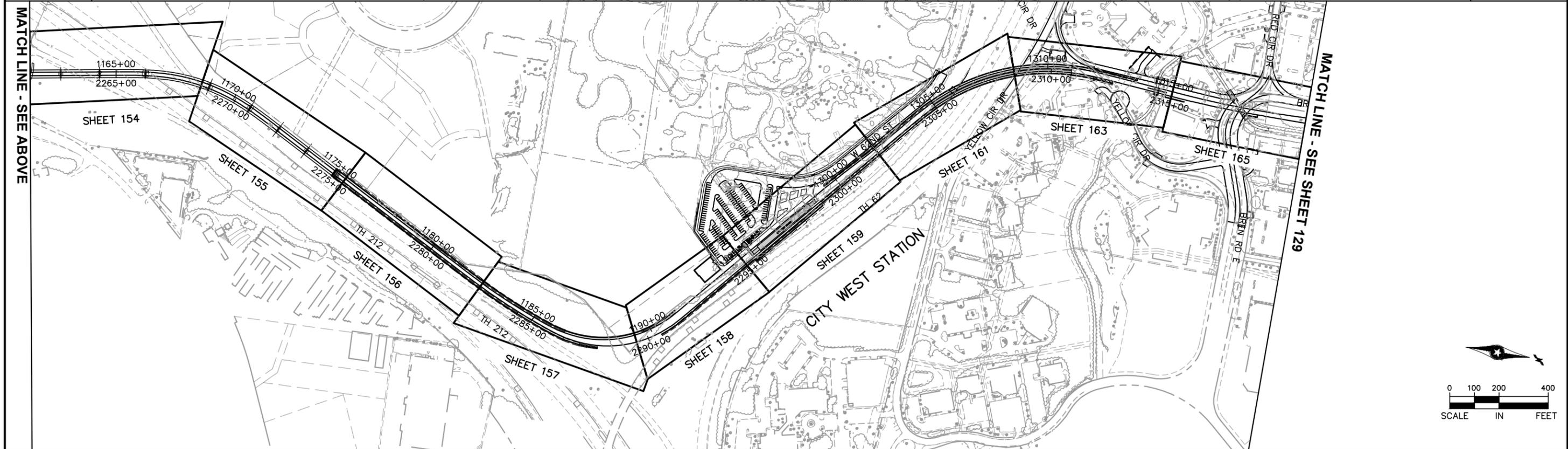
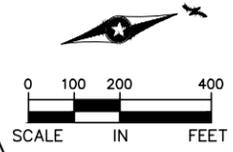
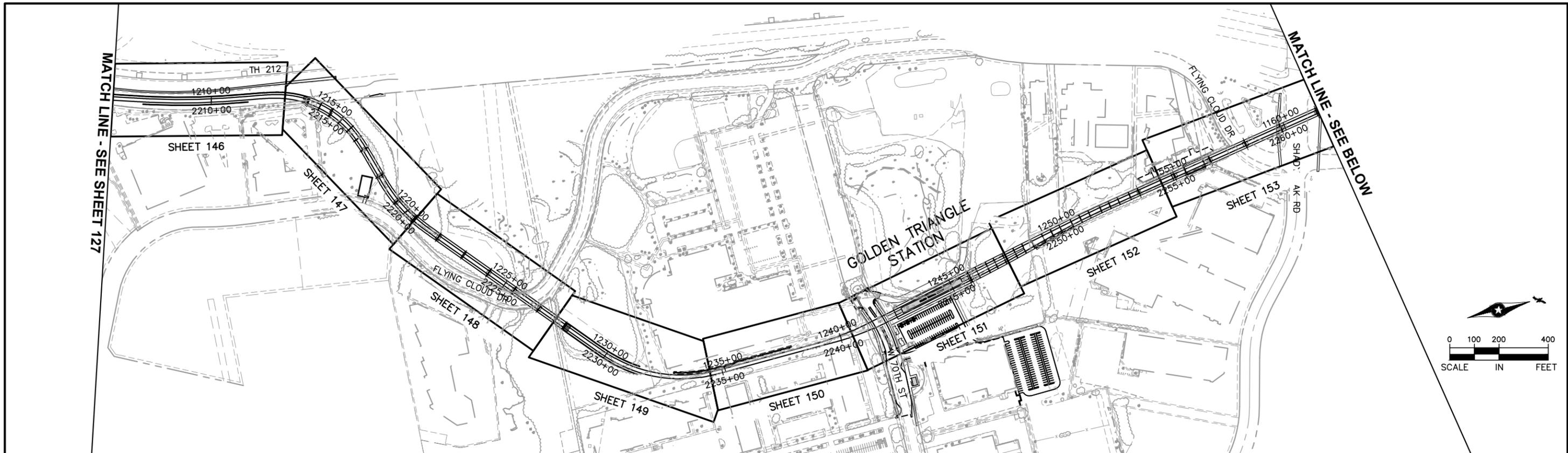


**CIVIL WEST - VOLUME 3
TRACK
PLAN SHEET LAYOUT
SHEET 1**

DISCIPLINE: TRACK SHEET NAME: W1-TRK-LAY-001

SHEET
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OF
189

Sep. 21 2015 08:18 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-LAY.dwg By: V-RasulL



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 09/28/15

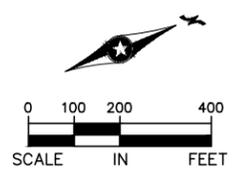
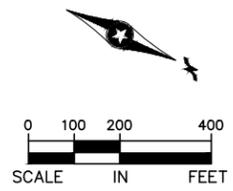
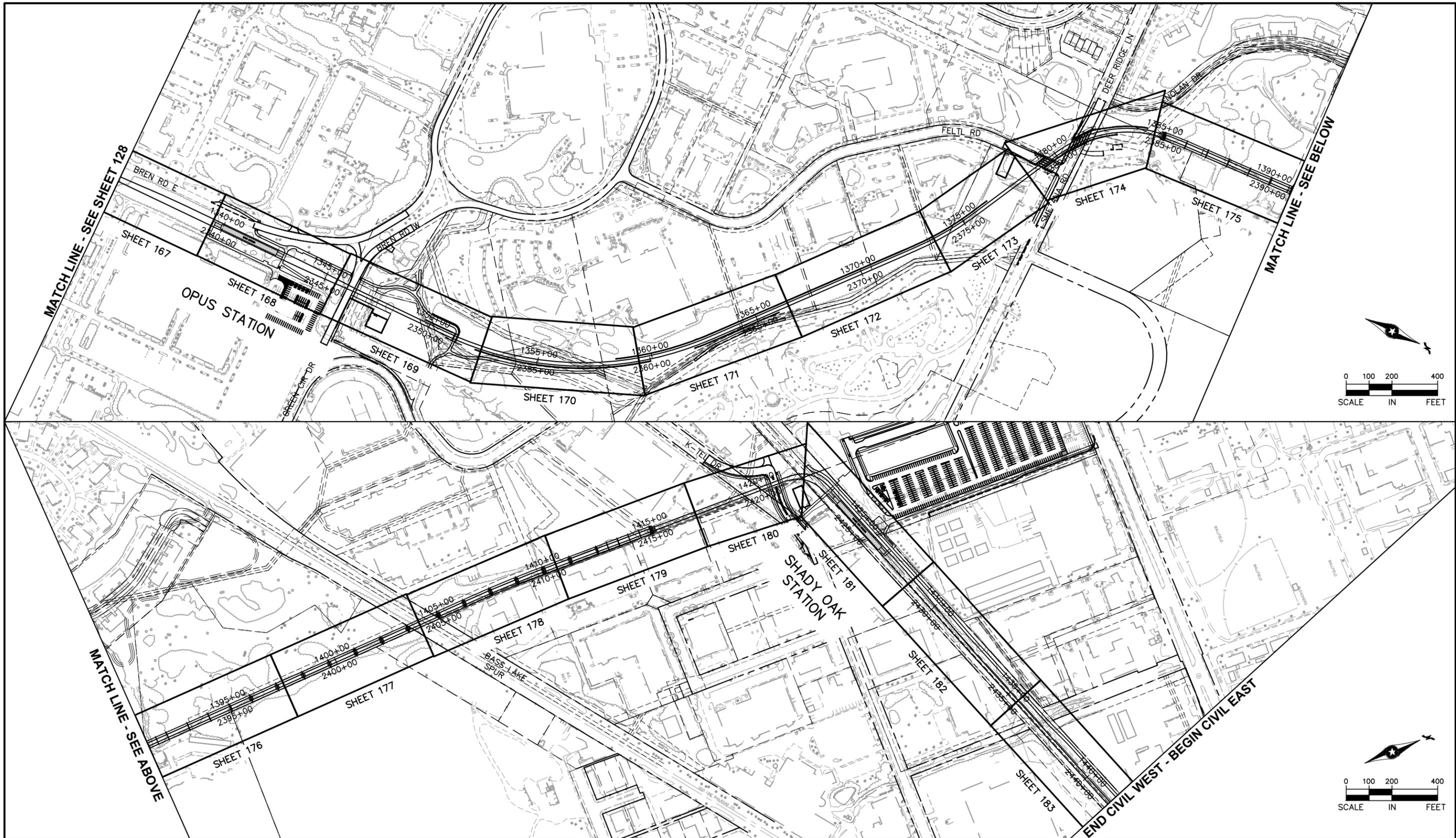



CIVIL WEST - VOLUME 3
TRACK
PLAN SHEET LAYOUT
SHEET 2

DISCIPLINE: TRACK SHEET NAME: W2-TRK-LAY-001

SHEET 128 OF 189

Sep. 21 2015 02:23 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-LAY.dwg By: MaurisBM



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

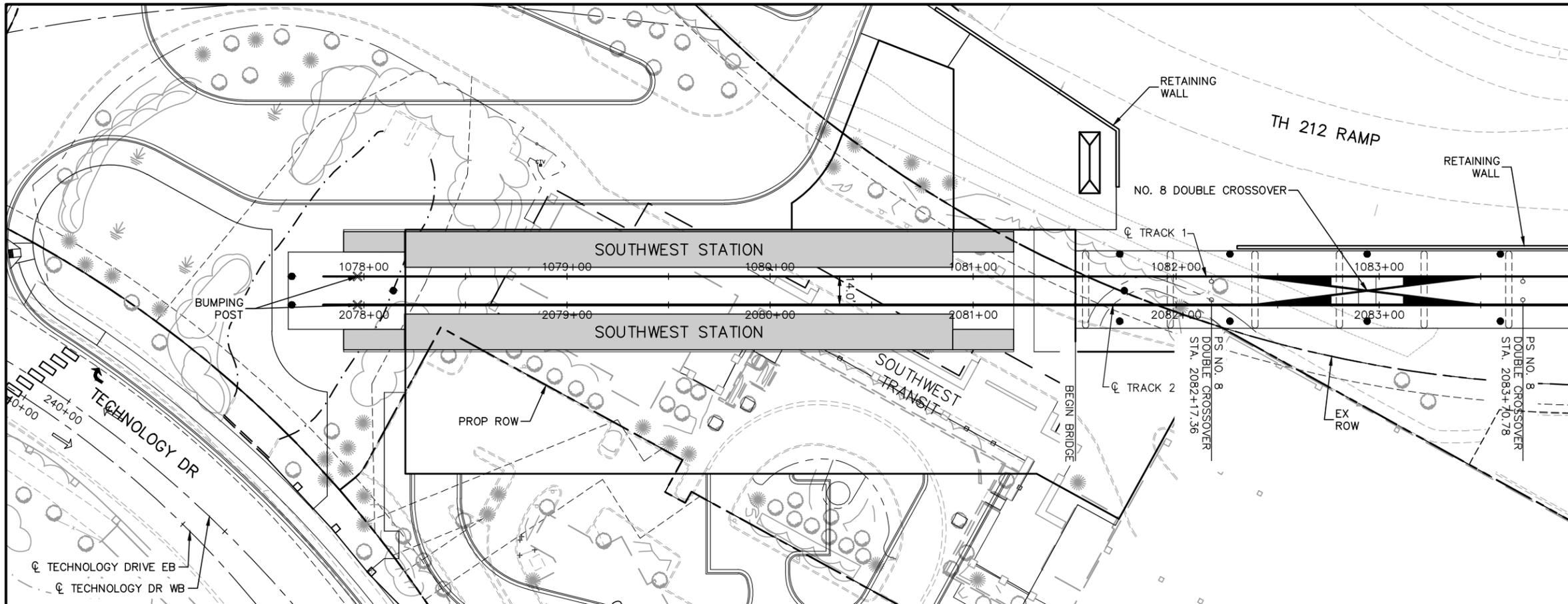


60% SUBMISSION - 09/28/15

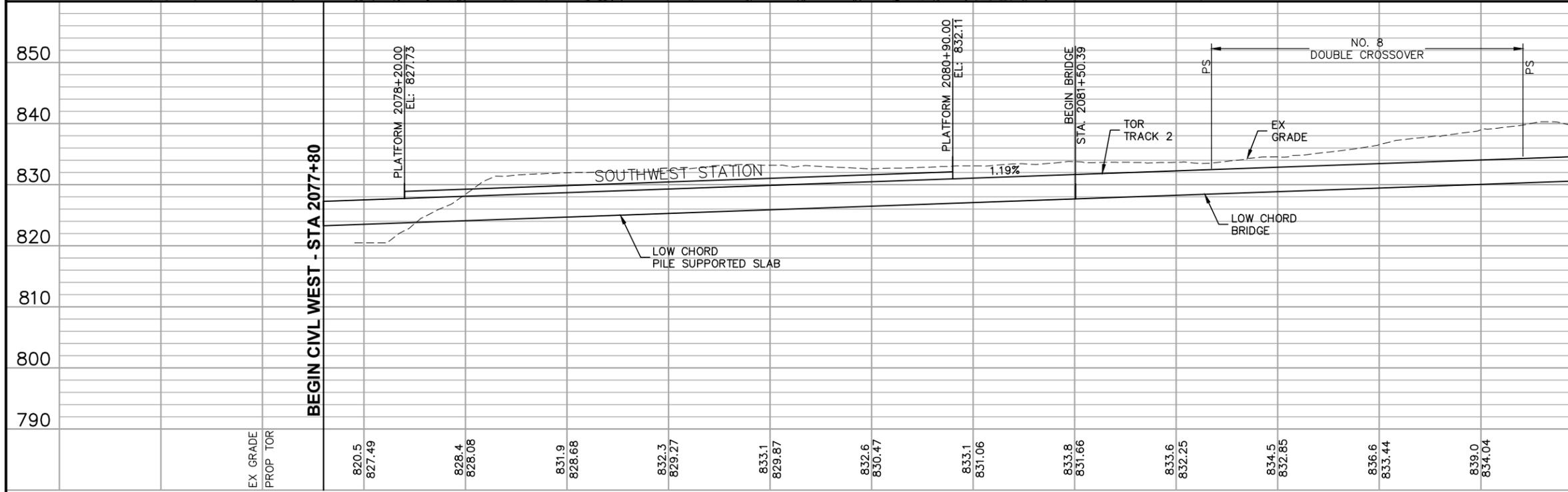
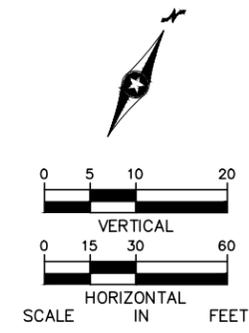


CIVIL WEST - VOLUME 3 TRACK PLAN SHEET LAYOUT SHEET 3		SHEET 129 OF 189
DISCIPLINE: TRACK	SHEET NAME: W3-TRK-LAY-001	

Sep. 21 2015 11:18 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: V-Rosul



MATCH LINE - STA 2084+00



00+802 STA - MATCHLINE

EX GRADE	820.5	828.4	831.9	832.3	833.1	832.6	833.1	833.8	833.6	834.5	836.6	839.0	839.6
PROP TOR	827.49	828.08	828.68	829.27	829.87	830.47	831.06	831.66	832.25	832.85	833.44	834.04	834.63
	2078+00		2079+00		2080+00		2081+00		2082+00		2083+00		2084+00

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 09/28/15




CIVIL WEST - VOLUME 3

TRACK

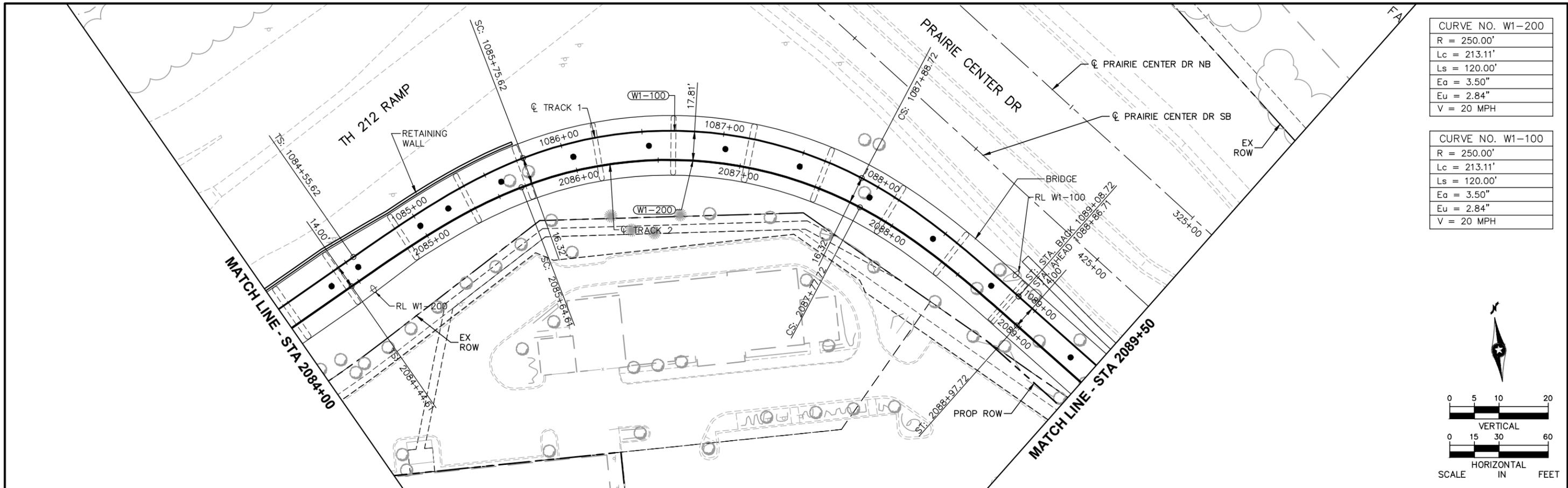
PLAN AND PROFILE

STA 2077+80 TO STA 2084+00

DISCIPLINE: **TRACK** SHEET NAME: **W1-TRK-PRF - 001**

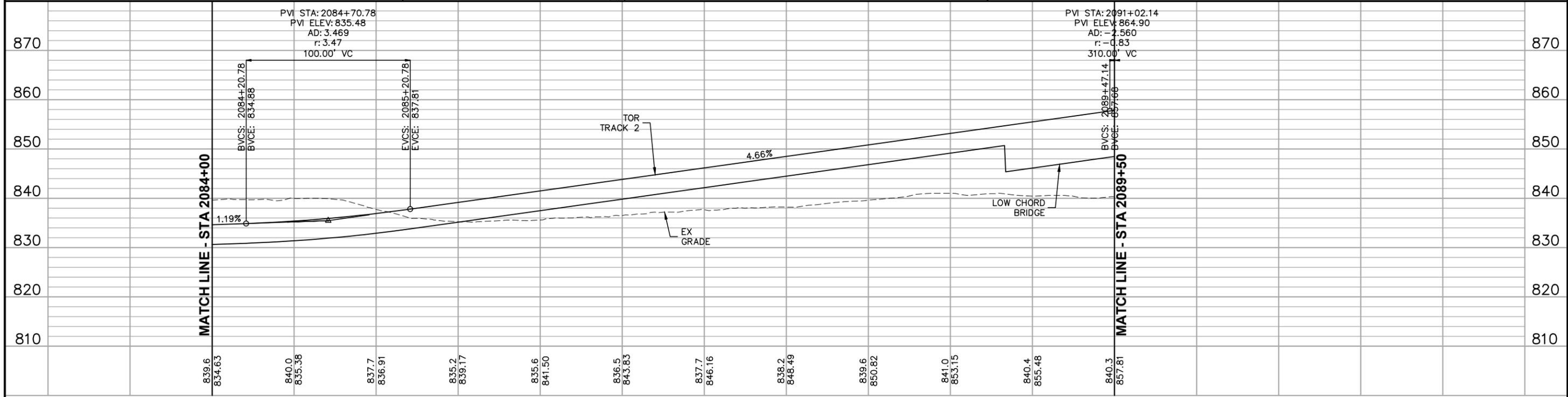
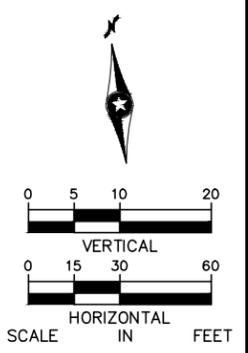
SHEET 130 OF 189

Sep. 21 2015 02:27 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: MourisBM



CURVE NO. W1-200
R = 250.00'
Lc = 213.11'
Ls = 120.00'
Ea = 3.50"
Eu = 2.84"
V = 20 MPH

CURVE NO. W1-100
R = 250.00'
Lc = 213.11'
Ls = 120.00'
Ea = 3.50"
Eu = 2.84"
V = 20 MPH



2084+00	2085+00	2086+00	2087+00	2088+00	2089+00
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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

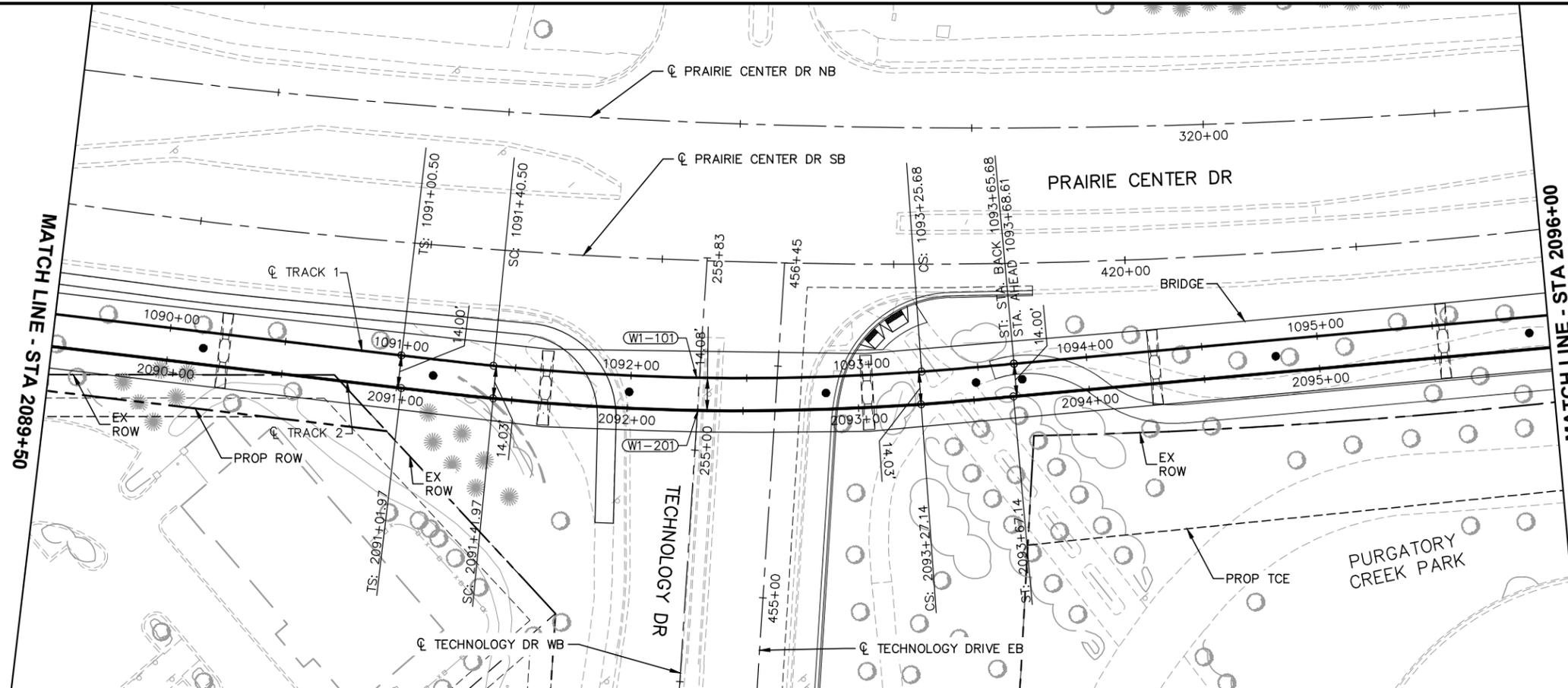



CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2084+00 TO STA 2089+50

DISCIPLINE: **TRACK** SHEET NAME: **W1-TRK-PRF - 002**

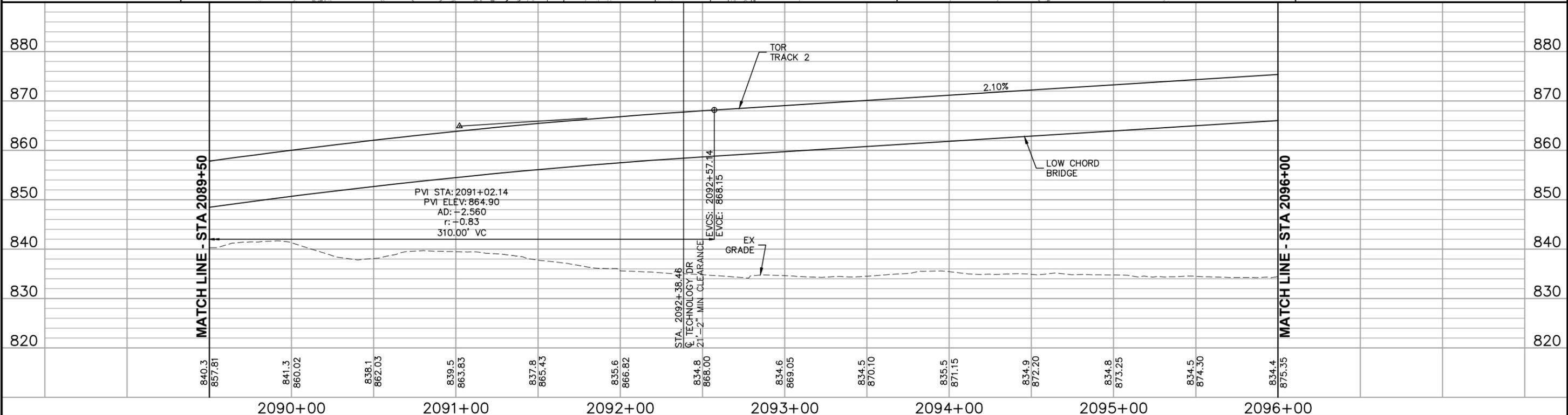
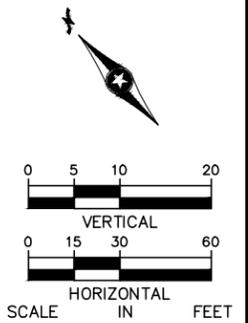
SHEET
131
OF
189

Sep. 21 2015 02:27 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: MourisBM



CURVE NO. W1-201
R = 1080.00'
Lc = 185.18'
LS = 40.00'
Ea = 1.00"
Eu = 1.29"
V = 25 MPH

CURVE NO. W1-101
R = 1080.00'
Lc = 185.18'
LS = 40.00'
Ea = 1.00"
Eu = 1.29"
V = 25 MPH



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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AECOM

60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2089+50 TO STA 2096+00

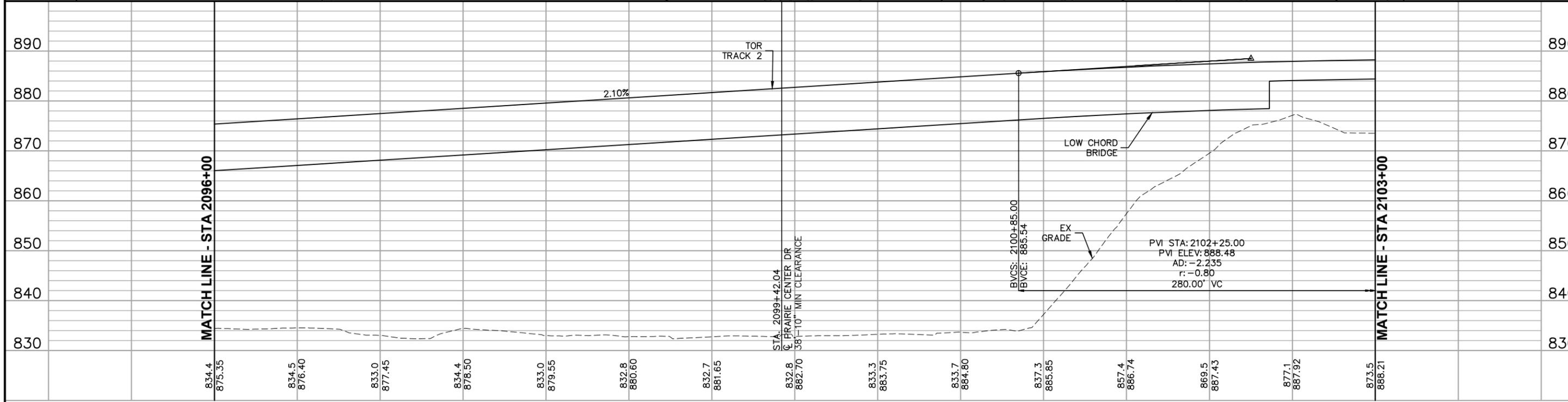
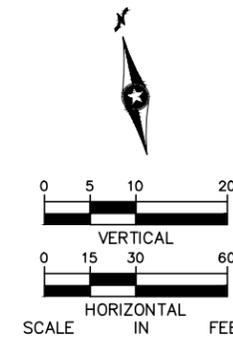
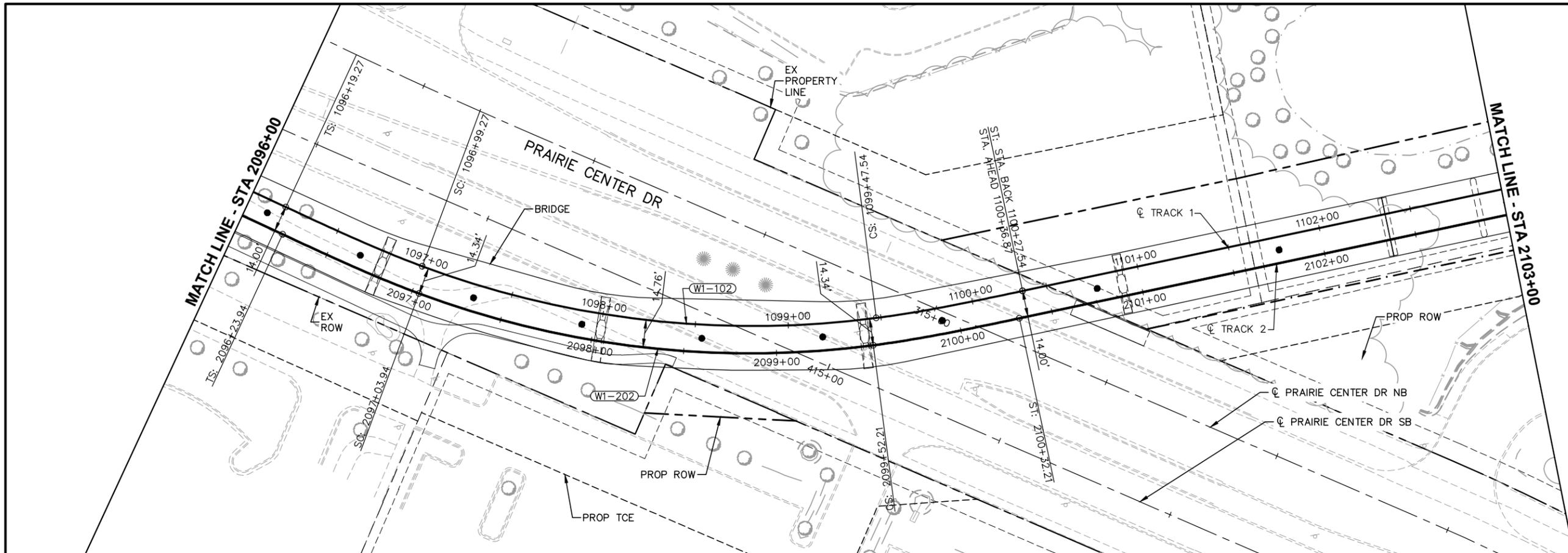
DISCIPLINE: **TRACK** SHEET NAME: **W1-TRK-PRF - 003**

SHEET
132
OF
189

Sep. 21 2015 02:28 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: MourisBM

CURVE NO. W1-202
R = 510.00'
Lc = 248.27'
Ls = 80.00'
Ea = 2.25"
Eu = 2.60"
V = 25 MPH

CURVE NO. W1-102
R = 510.00'
Lc = 248.27'
Ls = 80.00'
Ea = 2.25"
Eu = 2.60"
V = 25 MPH



834.4 875.35	834.5 876.40	833.0 877.45	834.4 878.50	833.0 879.55	832.8 880.60	832.7 881.65	832.8 882.70	833.3 883.75	833.7 884.80	837.3 885.85	857.4 886.74	869.5 887.43	877.1 887.92	873.5 888.21
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2096+00	2097+00	2098+00	2099+00	2100+00	2101+00	2102+00	2103+00
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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

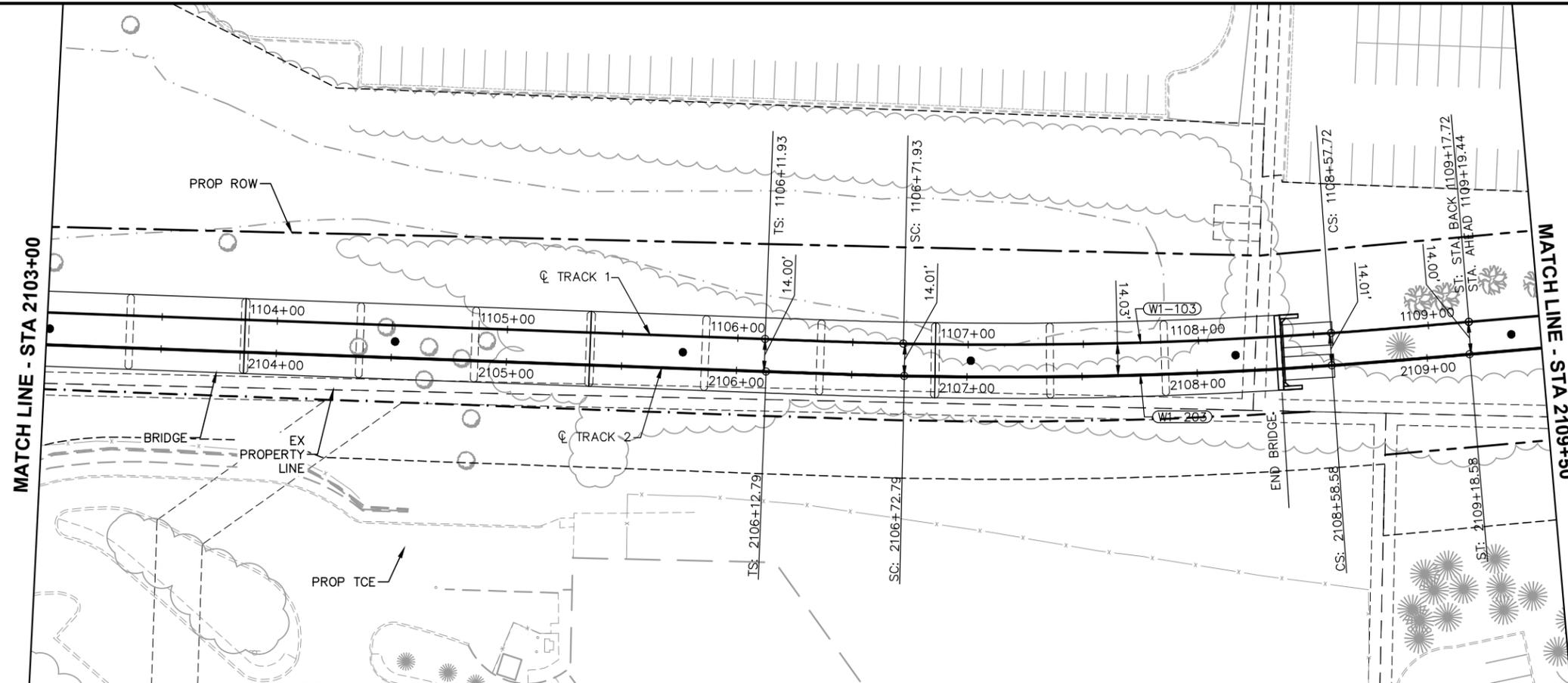


**CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2096+00 TO STA 2103+00**

DISCIPLINE: **TRACK** SHEET NAME: **W1-TRK-PRF - 004**

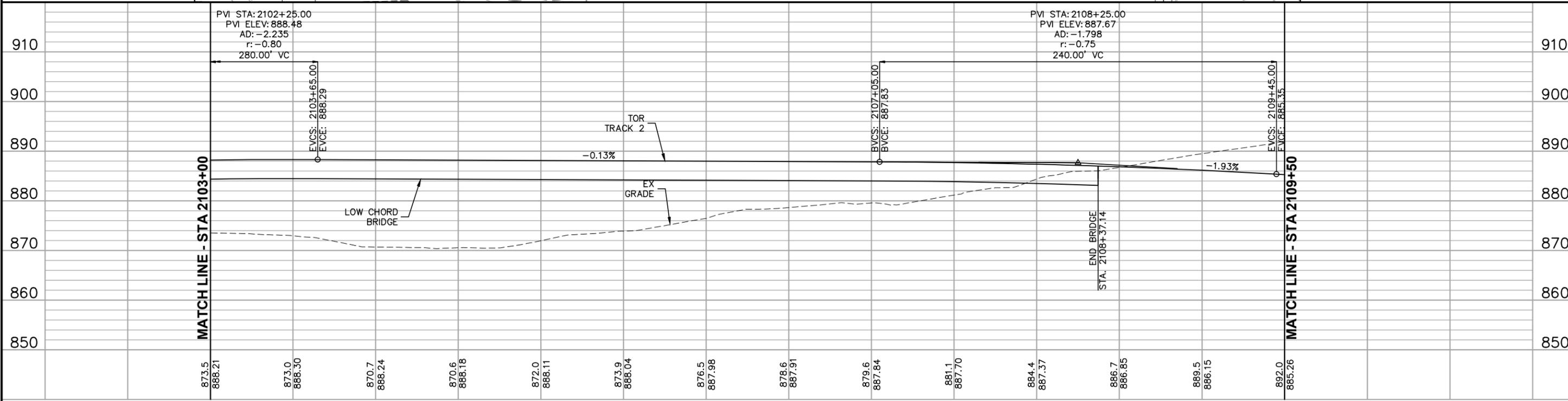
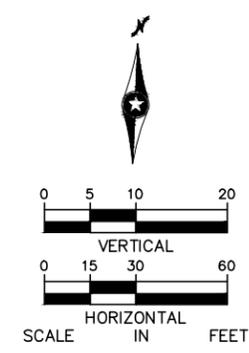
SHEET
133
OF
189

Sep. 21 2015 02:29 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: MourisBM



CURVE NO. W1-203
R = 2000.00'
Lc = 185.79'
Ls = 60.00'
Ea = 1.00"
Eu = 1.43"
V = 35 MPH

CURVE NO. W1-103
R = 2000.00'
Lc = 185.79'
Ls = 60.00'
Ea = 1.00"
Eu = 1.43"
V = 35 MPH



873.5 888.21	873.0 888.30	870.7 888.24	870.6 888.18	872.0 888.11	873.9 888.04	876.5 887.98	878.6 887.91	879.6 887.84	881.1 887.70	884.4 887.37	886.7 886.85	889.5 886.15	892.0 885.26
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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

MATCH LINE - STA 2103+00

MATCH LINE - STA 2109+50

AECOM

60% SUBMISSION - 09/28/15




CIVIL WEST - VOLUME 3

TRACK

PLAN AND PROFILE

STA 2103+00 TO STA 2109+50

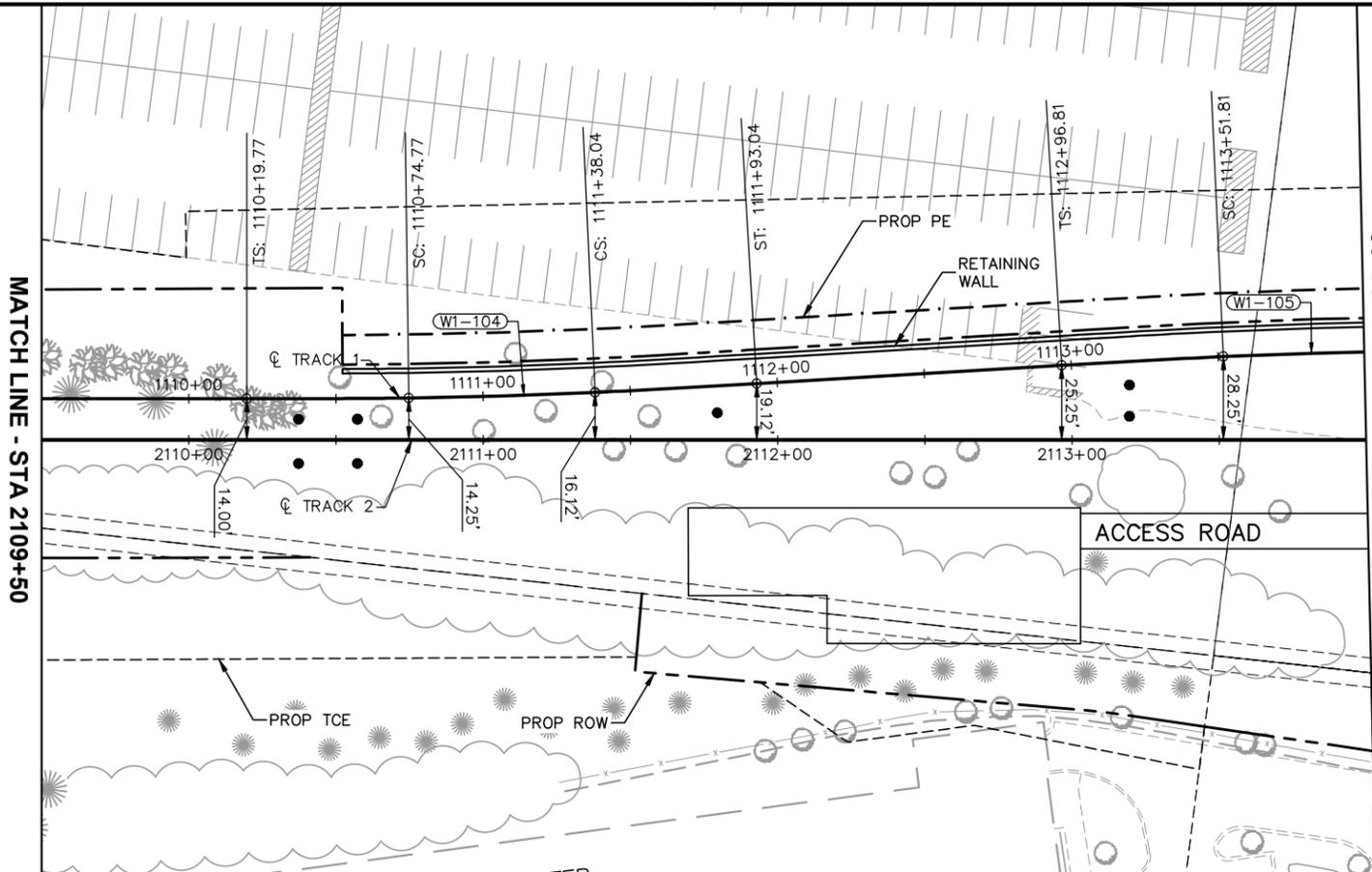
DISCIPLINE: TRACK SHEET NAME: W1-TRK-PRF - 005

SHEET 134 OF 189

Sep. 21 2015 11:22 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: V-RosulL

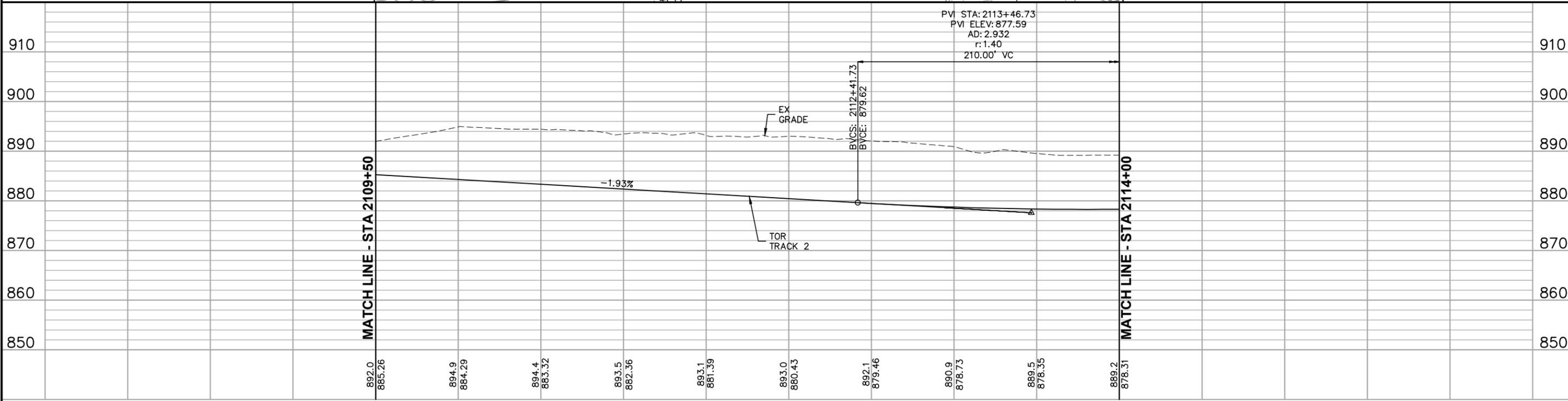
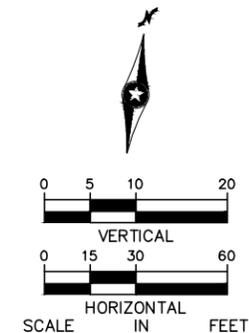
CURVE NO. W1-104
R = 2000.00'
Lc = 63.27'
Ls = 55.00'
Ea = 1.00"
Eu = 1.43"
V = 35 MPH

CURVE NO. W1-105
R = 2000.00'
Lc = 63.27'
Ls = 55.00'
Ea = 1.00"
Eu = 1.43"
V = 35 MPH



MATCH LINE - STA 2114+00

MATCH LINE - STA 2109+50



MATCH LINE - STA 2114+00

MATCH LINE - STA 2109+50

892.0 885.26 210+00 894.9 884.29 211+00 893.5 882.36 212+00 893.1 881.39 213+00 890.9 878.73 214+00 889.5 878.35 889.2 878.31

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

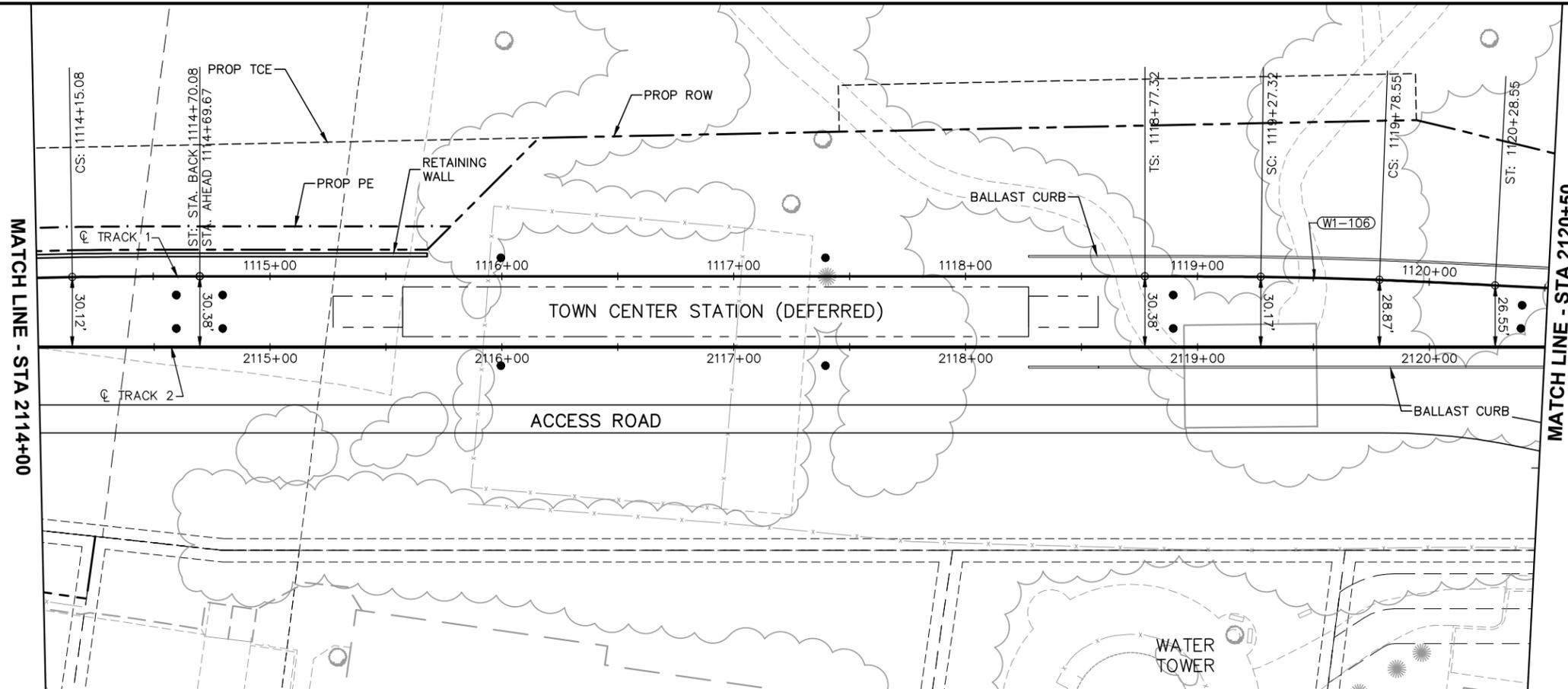


**CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2109+50 TO STA 2114+00**

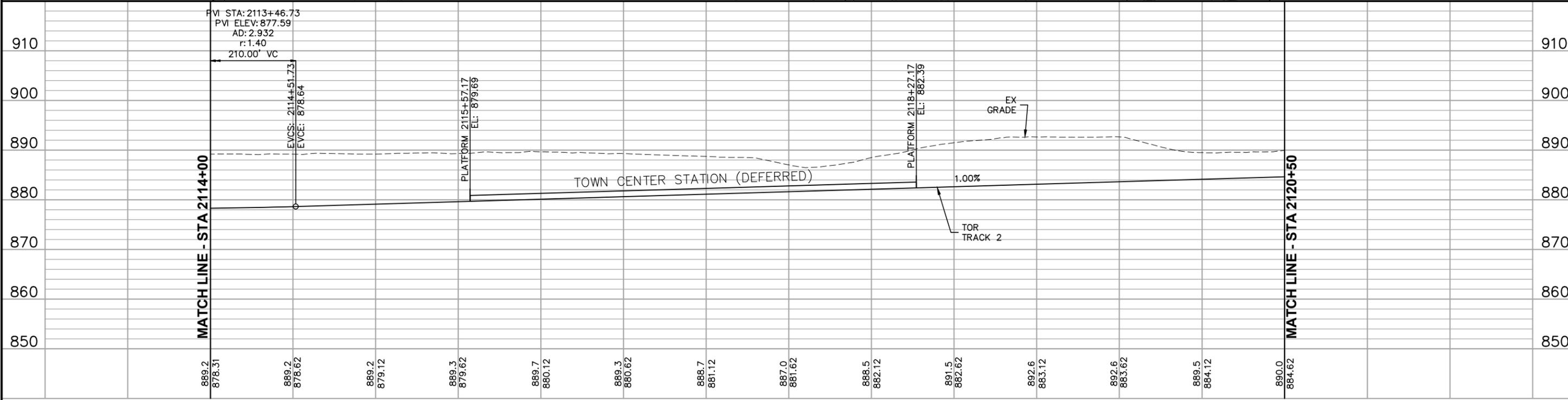
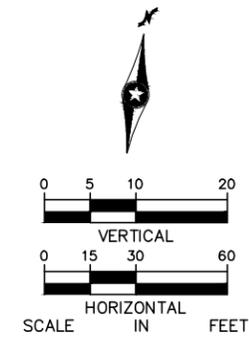
DISCIPLINE: TRACK SHEET NAME: W1-TRK-PRF - 006

**SHEET
135
OF
189**

Sep. 21 2015 02:30 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: MourisBM



CURVE NO. W1-106
R = 2000.00'
Lc = 51.23'
Ls = 50.00'
E α = 1.25"
E u = 1.18"
V = 35 MPH



889.2 878.31	889.2 878.62	889.2 879.12	889.3 879.62	889.7 880.12	889.3 880.62	888.7 881.12	887.0 881.62	888.5 882.12	891.5 882.62	892.6 883.12	892.6 883.62	889.5 884.12	890.0 884.62
2114+00		2115+00		2116+00		2117+00		2118+00		2119+00		2120+00	

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3

TRACK

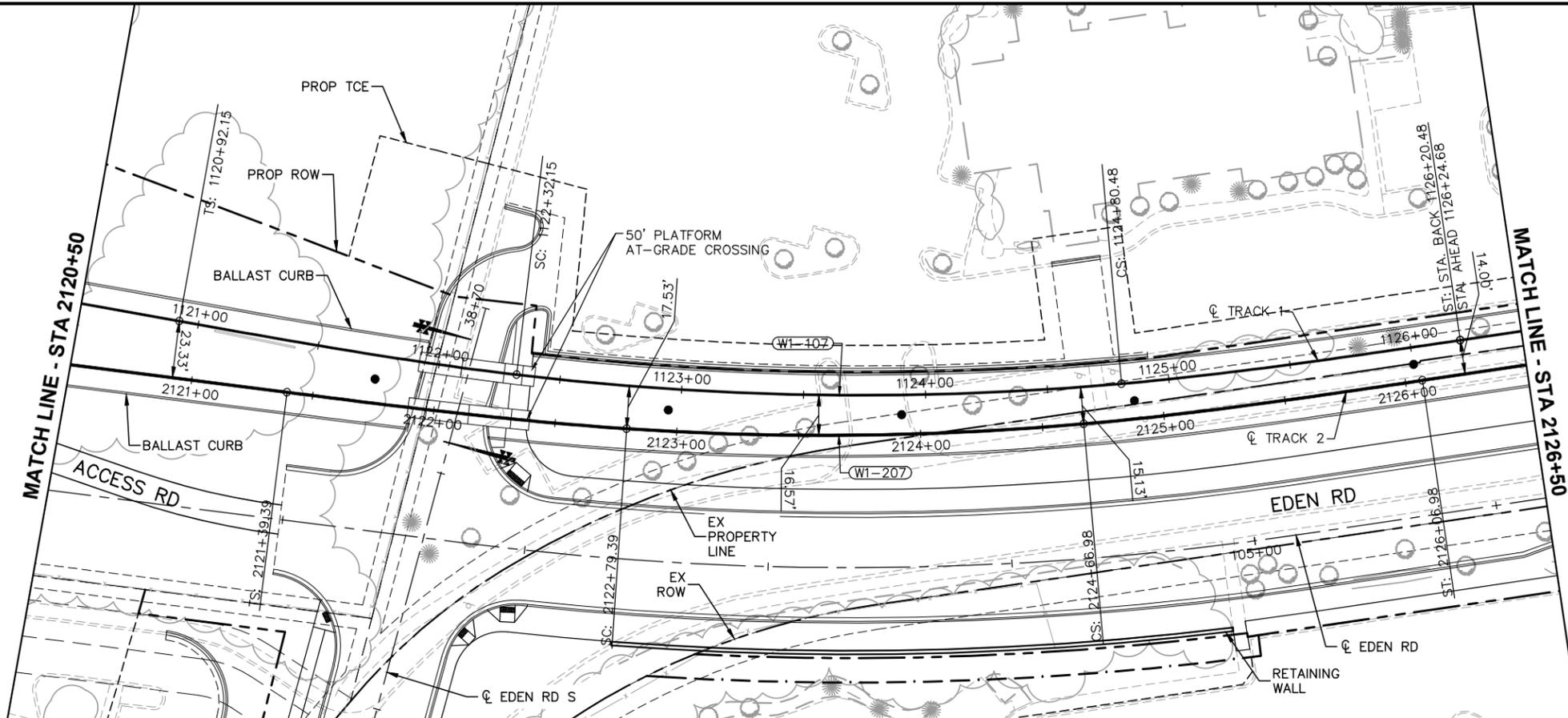
PLAN AND PROFILE

STA 2114+00 TO STA 2120+50

DISCIPLINE: TRACK	SHEET NAME: W1-TRK-PRF - 007
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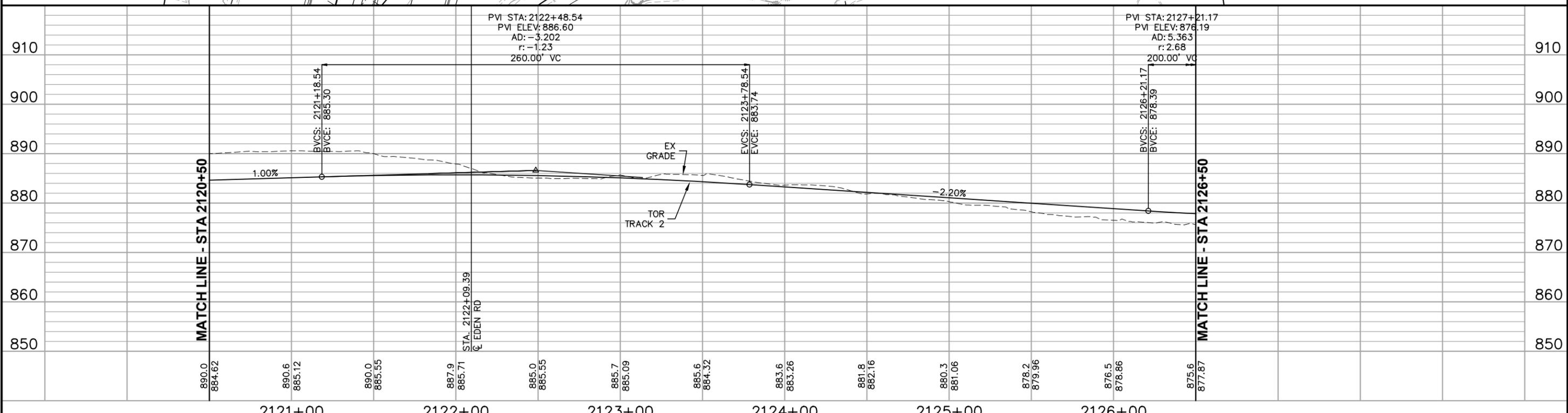
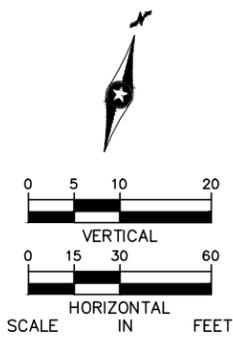
SHEET 136 OF 189

Sep. 21 2015 02:31 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: MaurisBM



CURVE NO. W1-207
R = 1200.00'
Lc = 187.59'
Ls = 140.00'
Ea = 1.00"
Eu = 3.04"
V = 35 MPH

CURVE NO. W1-107
R = 1200.00'
Lc = 248.33'
Ls = 140.00'
Ea = 1.00"
Eu = 3.04"
V = 35 MPH

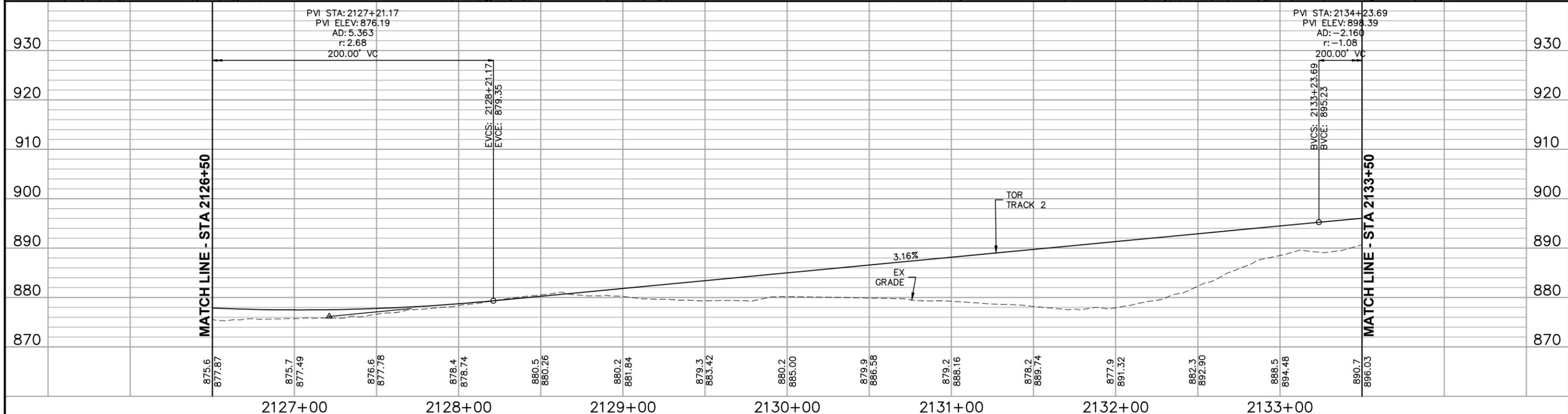
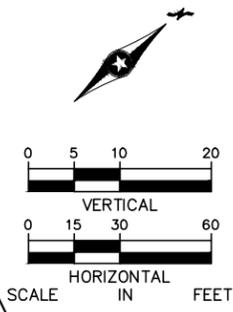
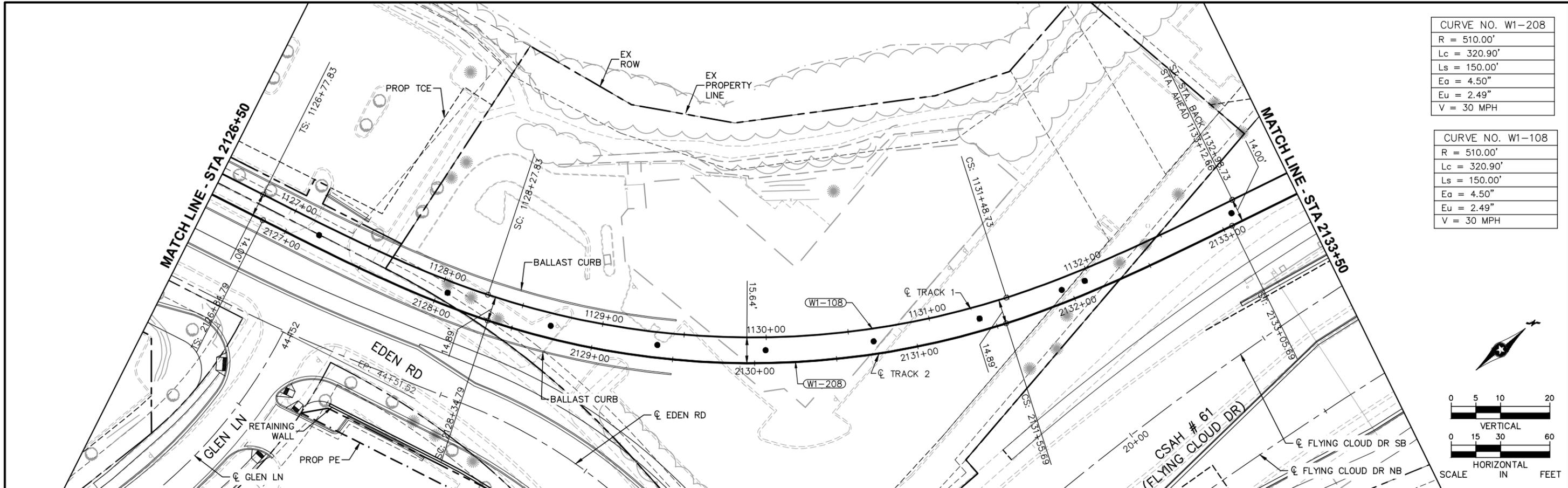


890.0	884.62	890.6	885.12	890.0	885.55	887.9	885.71	885.0	885.55	885.7	885.09	885.6	884.32	883.6	883.26	881.8	882.16	880.3	881.06	878.2	879.96	876.5	878.86	875.6	877.87
2121+00		2122+00		2123+00		2124+00		2125+00		2126+00															

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

 60% SUBMISSION - 09/28/15		CIVIL WEST - VOLUME 3 TRACK PLAN AND PROFILE STA 2120+50 TO STA 2126+50	SHEET 137 OF 189
DISCIPLINE: TRACK		SHEET NAME: W1-TRK-PRF - 008	

Sep. 21 2015 02:32 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: MourisBM



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15



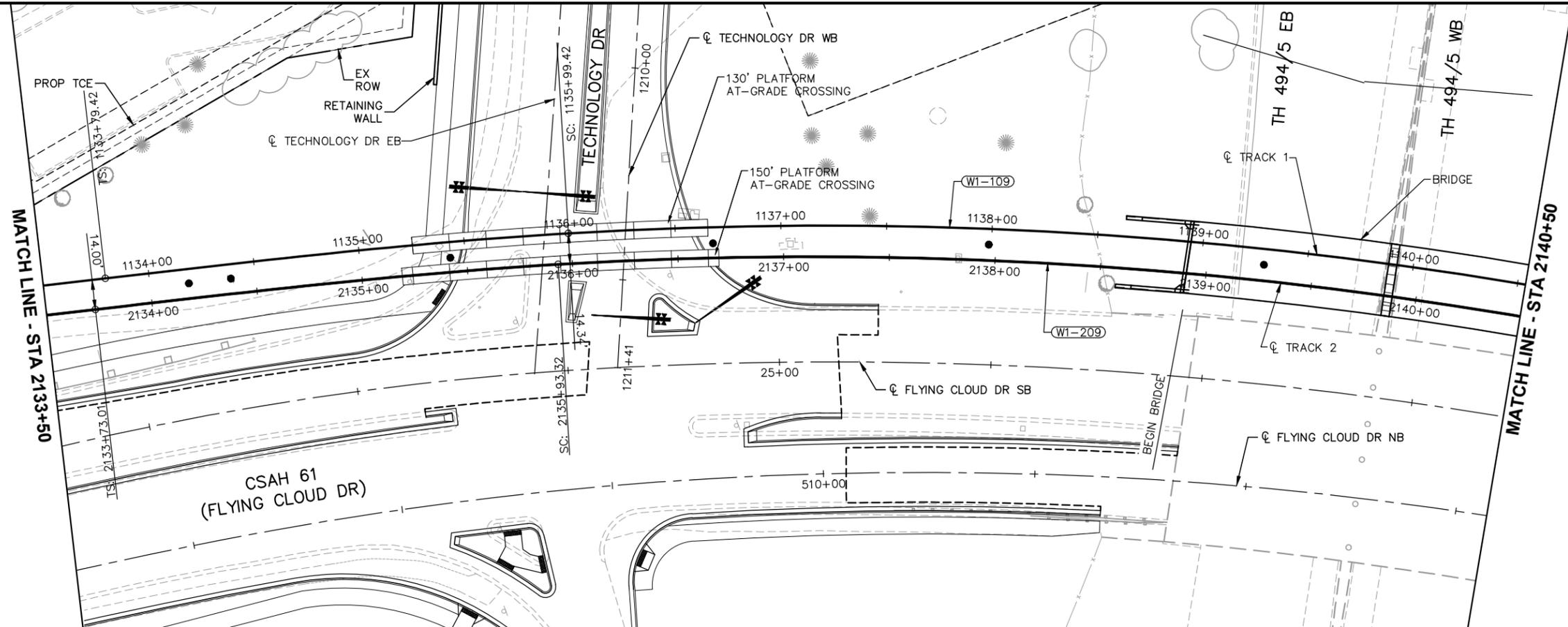


CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2126+50 TO STA 2133+50

DISCIPLINE: TRACK SHEET NAME: W1-TRK-PRF - 009

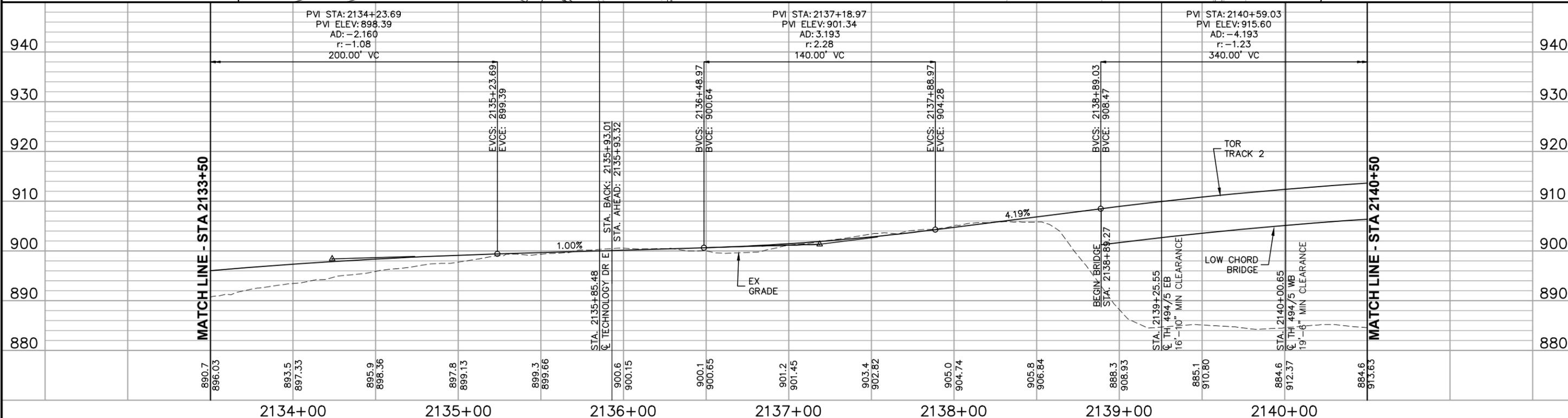
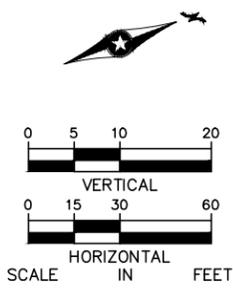
SHEET
138
OF
189

Sep. 21 2015 02:32 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: MourisEM



CURVE NO. W1-209
R = 2000.00'
Lc = 1498.32'
Ls = 220.00'
Ea = 1.00"
Eu = 3.95"
V = 50 MPH

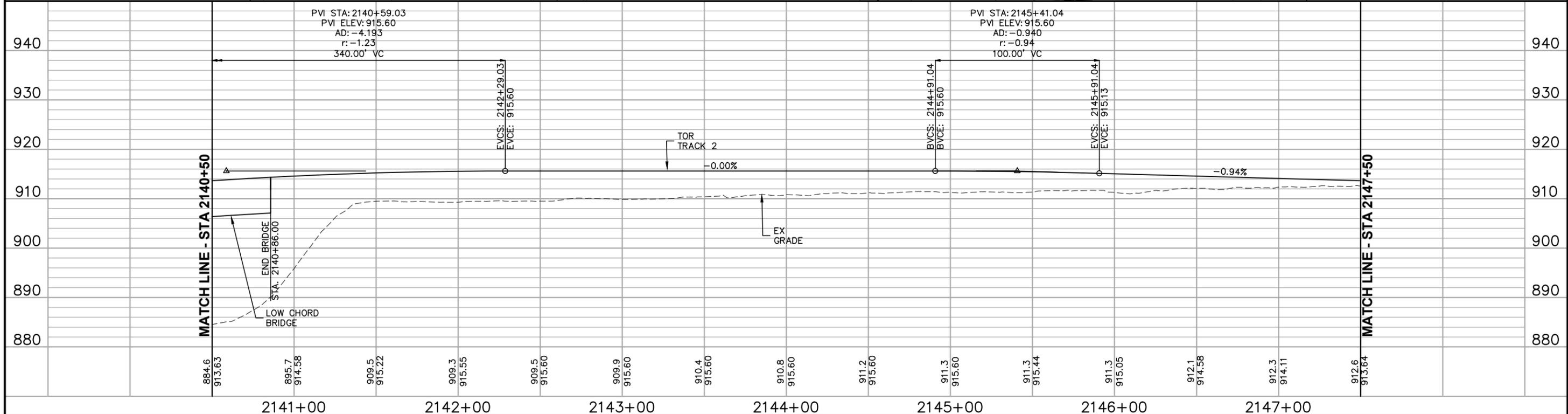
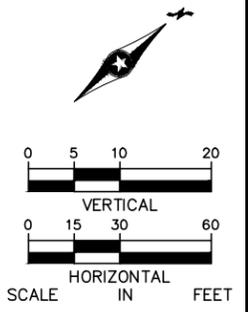
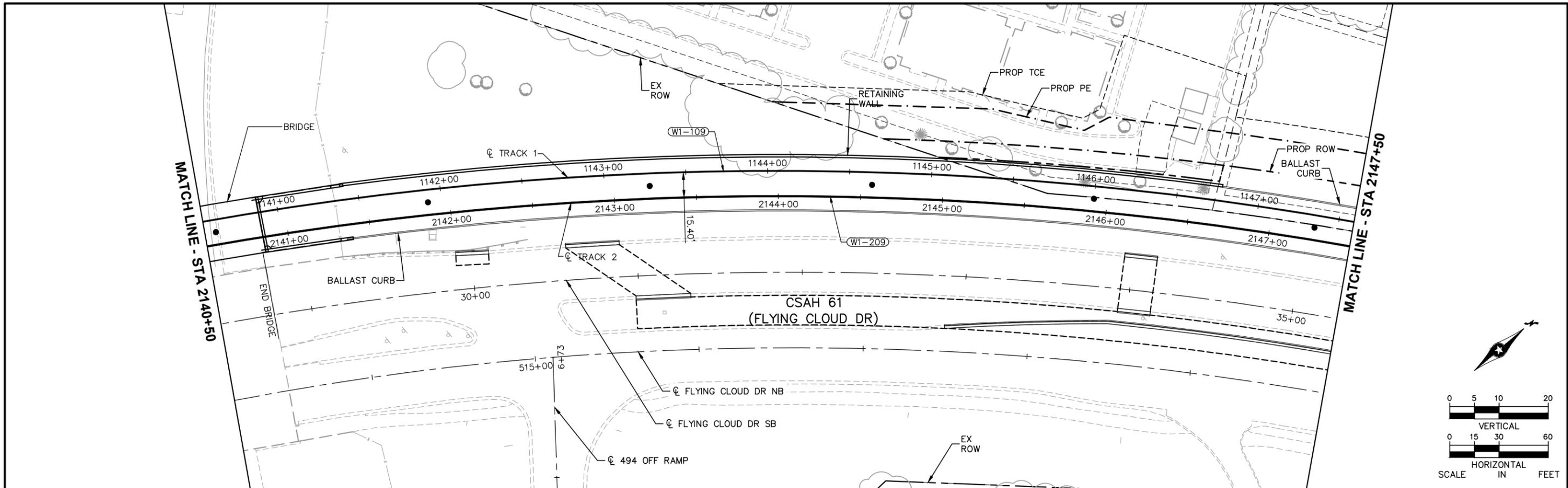
CURVE NO. W1-109
R = 2000.00'
Lc = 1498.32'
Ls = 220.00'
Ea = 1.00"
Eu = 3.95"
V = 50 MPH



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

			<p>CIVIL WEST - VOLUME 3 TRACK PLAN AND PROFILE STA 2133+50 TO STA 2140+50</p>	<p>SHEET 139 OF 189</p>
60% SUBMISSION - 09/28/15			DISCIPLINE: TRACK	SHEET NAME: W1-TRK-PRF - 010

Sep. 21 2015 02:33 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: MourisBM



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

2141+00	2142+00	2143+00	2144+00	2145+00	2146+00	2147+00
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AECOM

60% SUBMISSION - 09/28/15




CIVIL WEST - VOLUME 3

TRACK

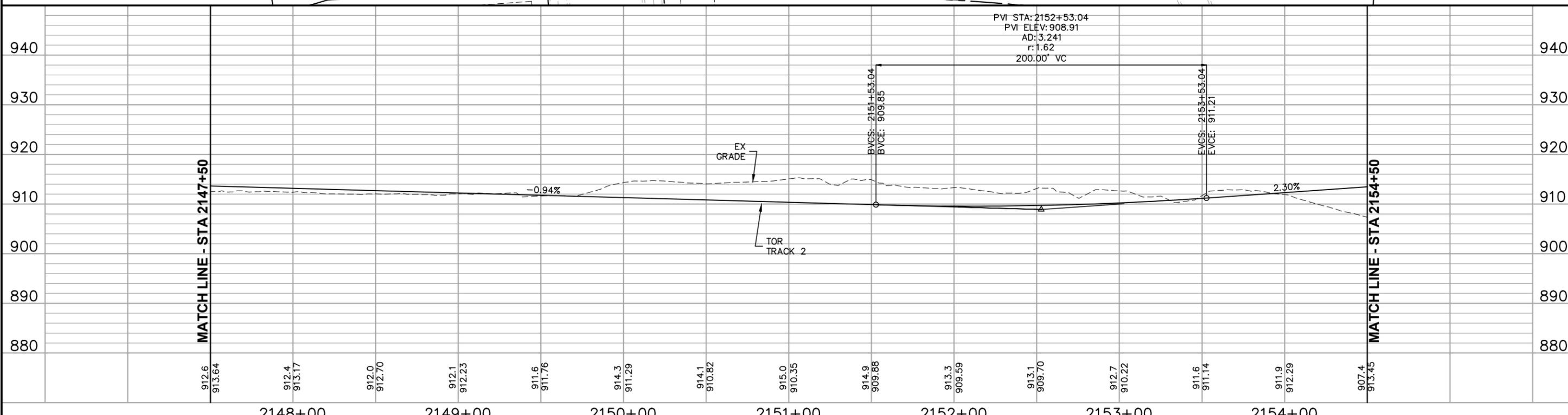
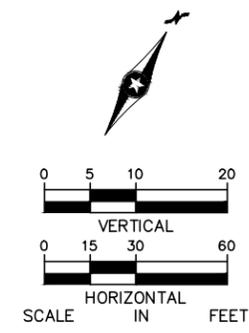
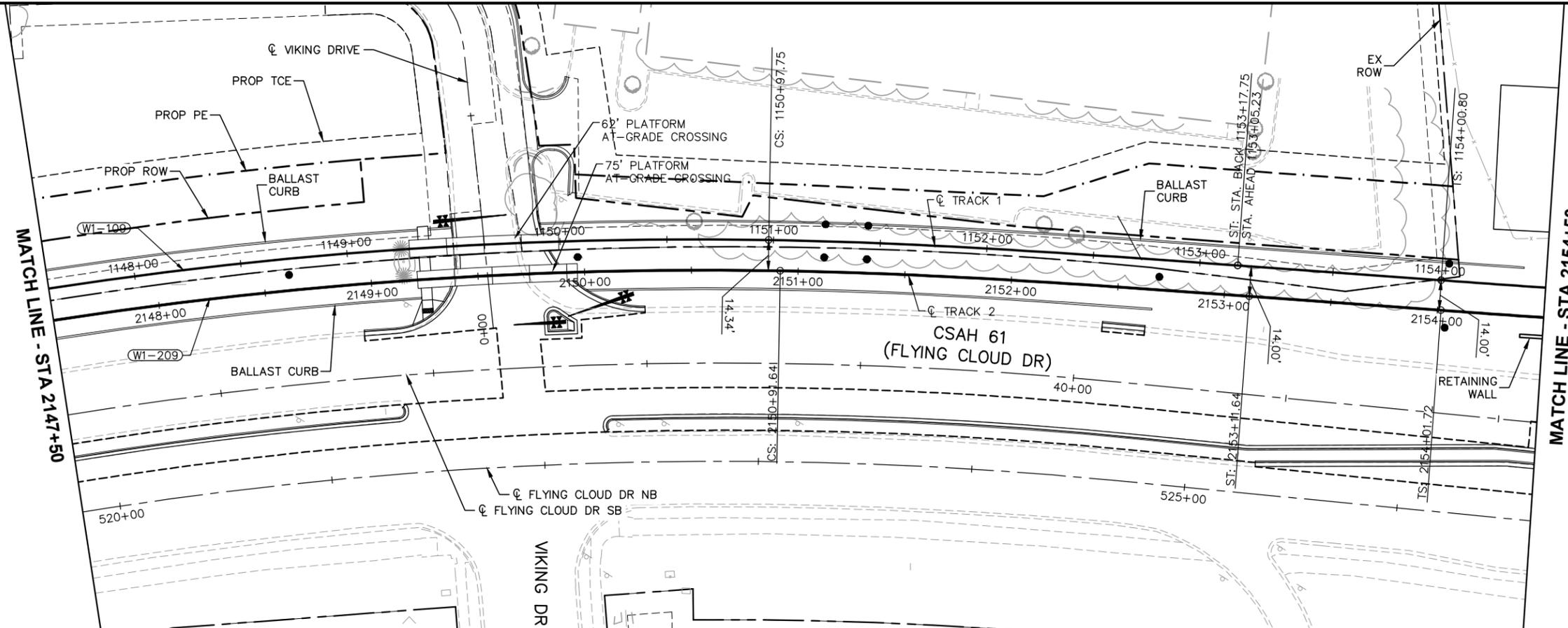
PLAN AND PROFILE

STA 2140+50 TO STA 2147+50

DISCIPLINE: **TRACK** SHEET NAME: **W1-TRK-PRF - 011**

SHEET **140**
OF
189

Sep. 21 2015 11:23 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: V-ResulL



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3

TRACK

PLAN AND PROFILE

STA 2147+50 TO STA 2154+50

DISCIPLINE: **TRACK** SHEET NAME: **W1-TRK-PRF - 012**

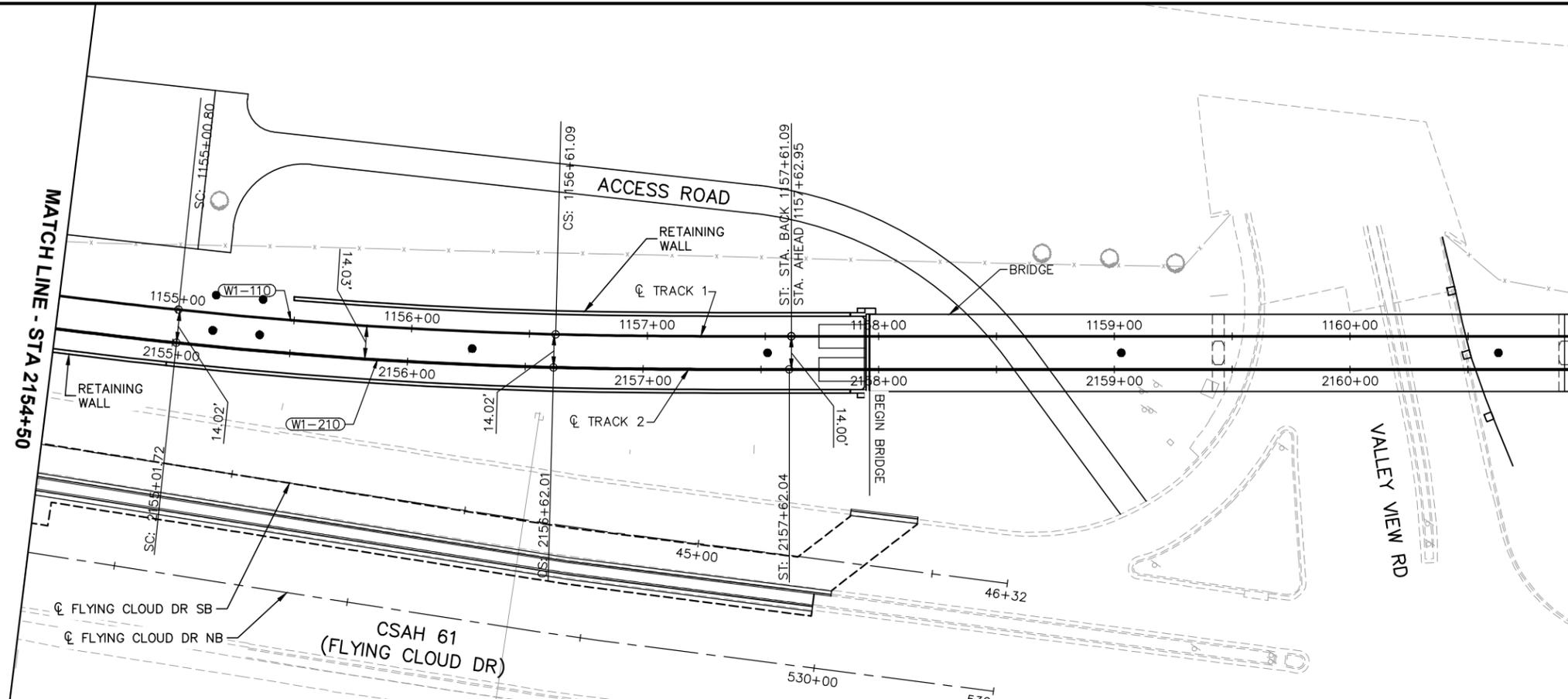
SHEET

141

OF

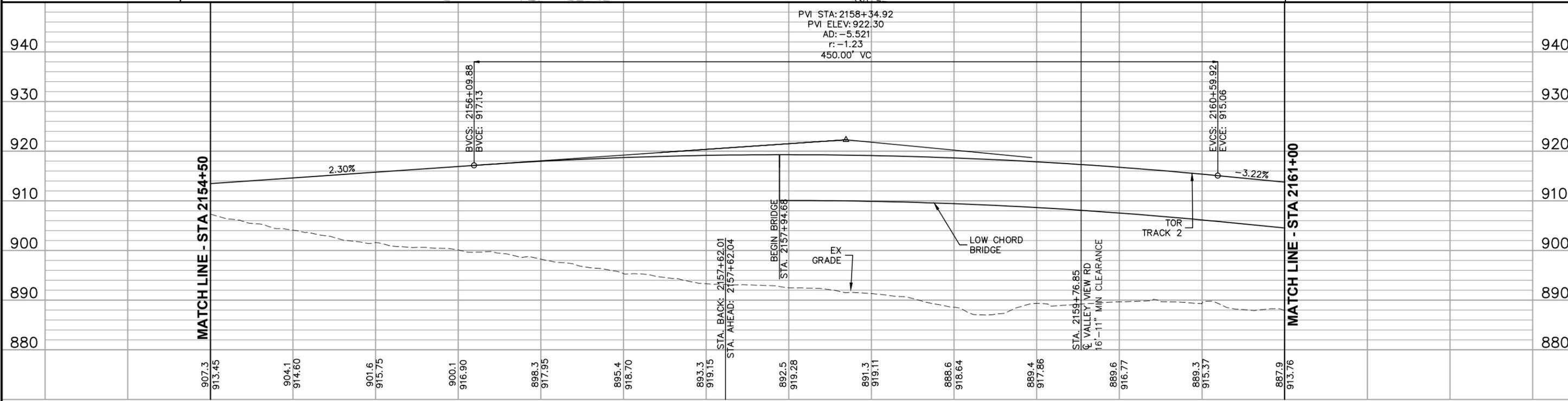
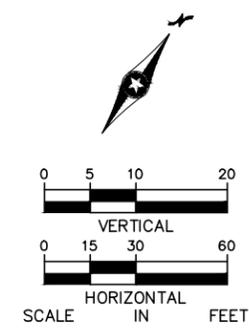
189

Sep. 21 2015 11:24 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: V-RosulL



CURVE NO. W1-210
R = 2000.00'
Lc = 160.29'
Ls = 100.00'
Ea = 2.00"
Eu = 2.01"
V = 45 MPH

CURVE NO. W1-110
R = 2000.00'
Lc = 160.29'
Ls = 100.00'
Ea = 2.00"
Eu = 2.01"
V = 45 MPH



907.3 913.45	904.1 914.60	901.6 915.75	900.1 916.90	898.3 917.95	895.4 918.70	893.3 919.15	892.5 919.28	891.3 919.11	888.6 918.64	889.4 917.86	889.6 916.77	889.3 915.37	887.9 913.76
2155+00			2156+00		2157+00		2158+00		2159+00		2160+00		2161+00

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2154+50 TO STA 2161+00

DISCIPLINE: **TRACK** SHEET NAME: **W1-TRK-PRF - 013**

SHEET
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OF
189

Sep. 21 2015 02:35 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: MourisBM

MATCH LINE - STA 2161+00

MATCH LINE - STA 2161+00

2161+00

2162+00

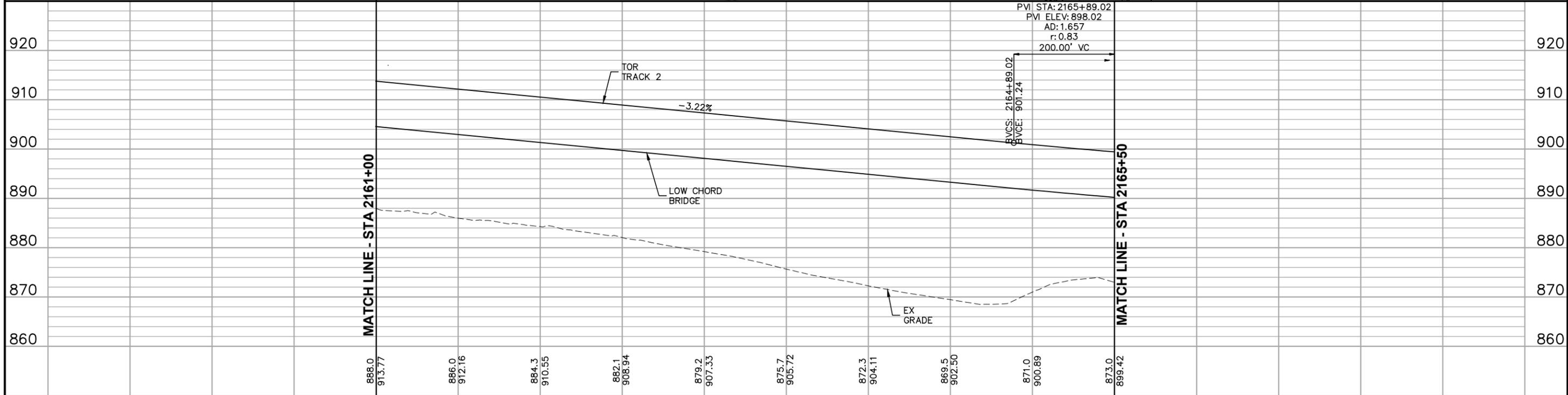
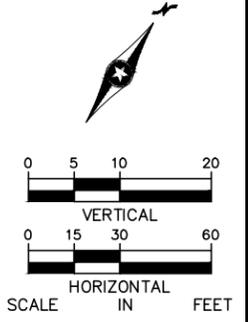
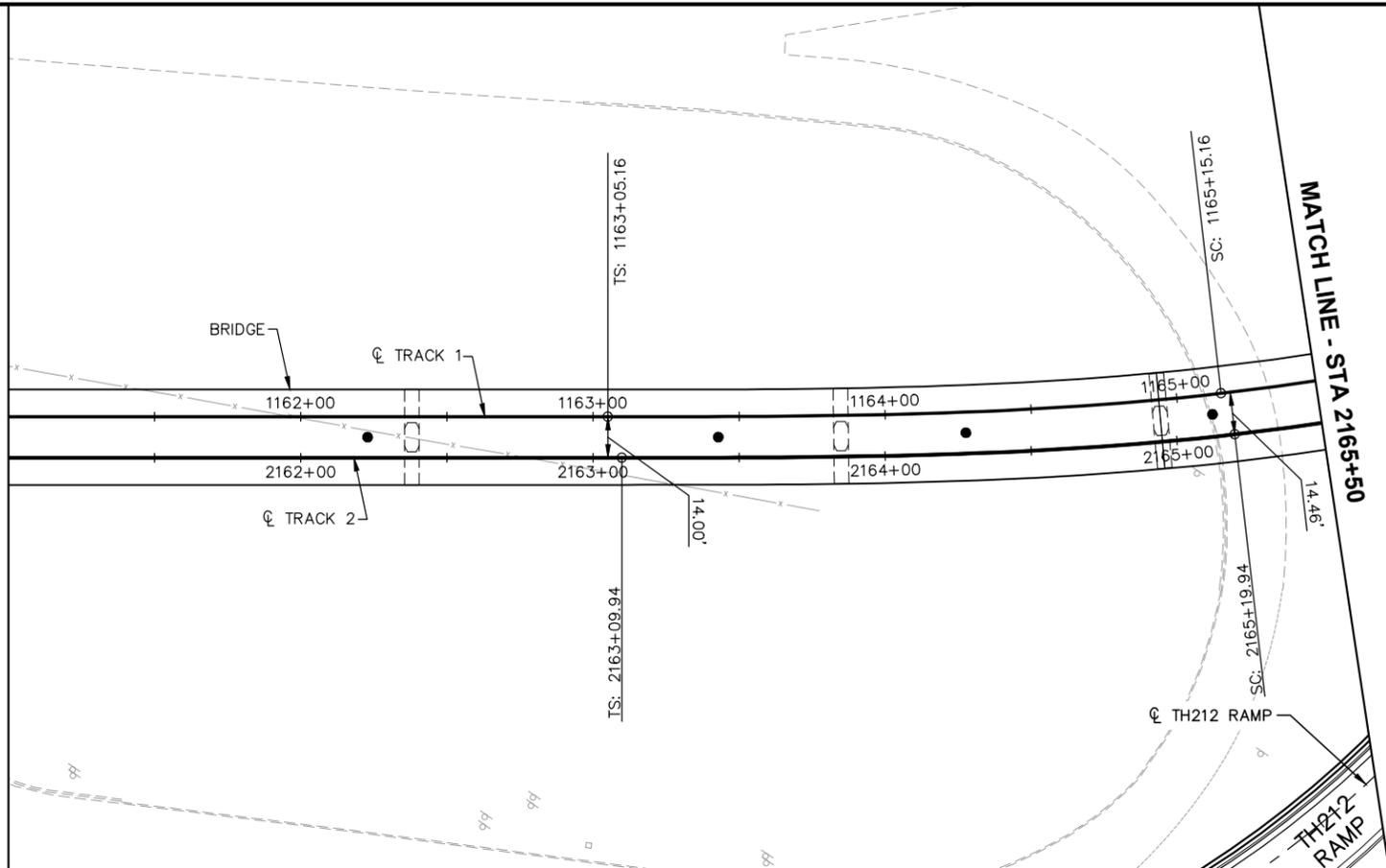
2163+00

2164+00

2165+00

MATCH LINE - STA 2165+50

MATCH LINE - STA 2165+50



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



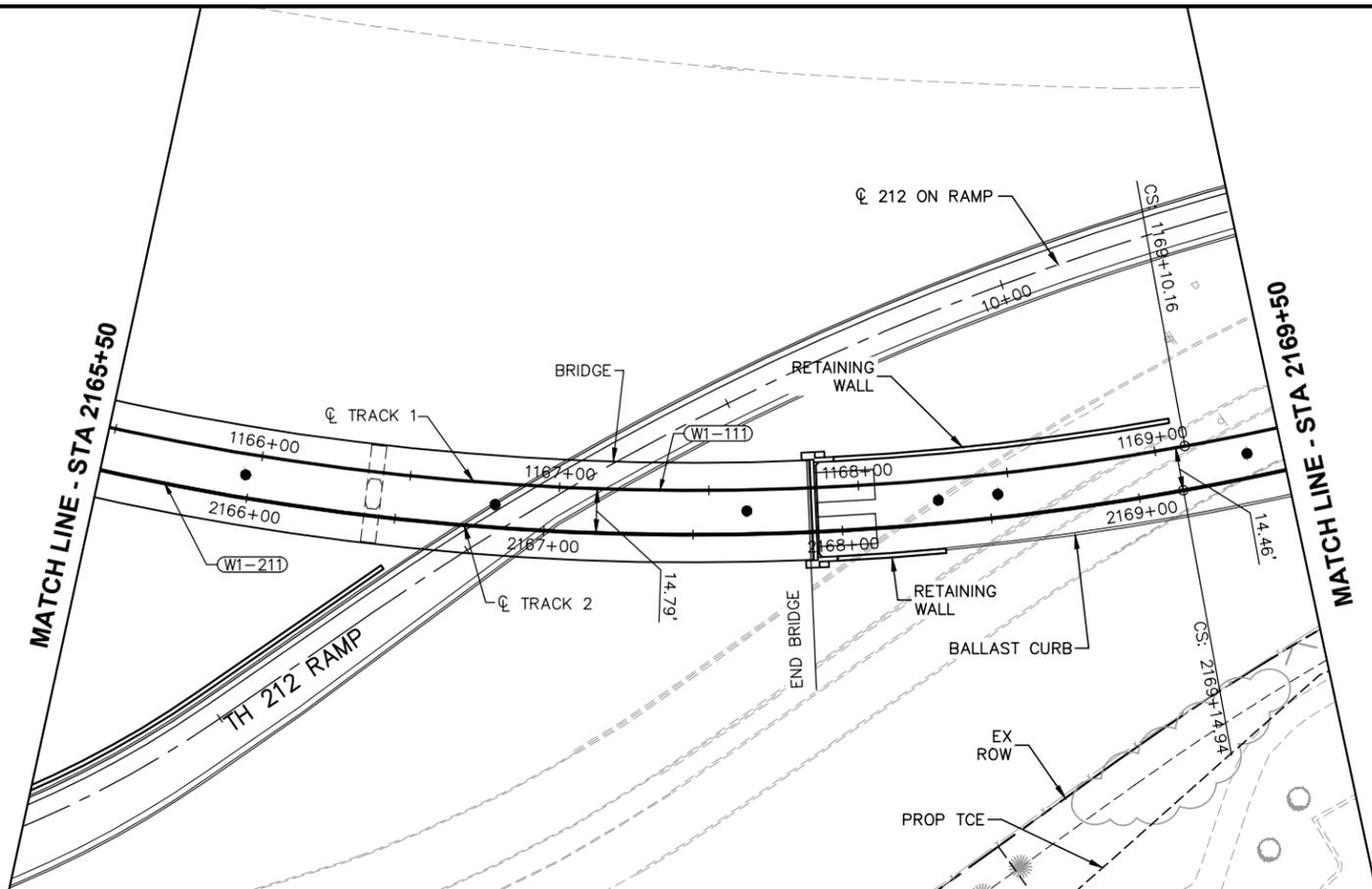
60% SUBMISSION - 09/28/15





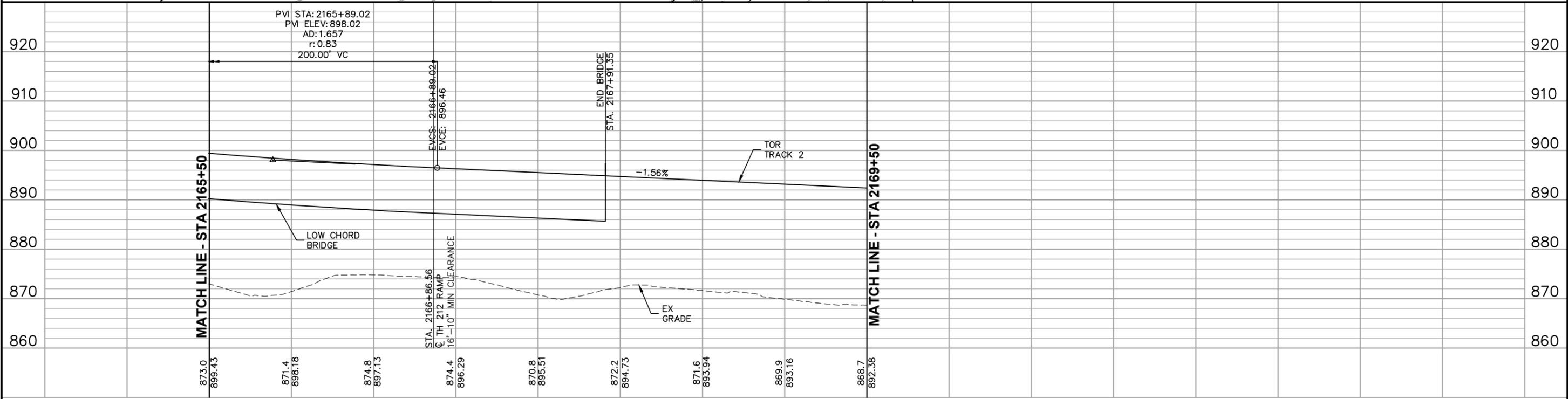
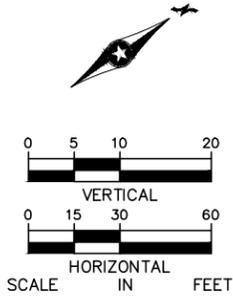
CIVIL WEST - VOLUME 3 TRACK PLAN AND PROFILE STA 2161+00 TO STA 2165+50		SHEET 143 OF 189
DISCIPLINE: TRACK	SHEET NAME: W1-TRK-PRF - 014	

Sep. 21 2015 02:36 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: MourisBM



CURVE NO. W1-211
R = 920.00'
Lc = 395.00'
Ls = 210.00'
Ea = 4.50"
Eu = 4.22"
V = 45 MPH

CURVE NO. W1-111
R = 920.00'
Lc = 395.00'
Ls = 210.00'
Ea = 4.50"
Eu = 4.22"
V = 45 MPH



2166+00 2167+00 2168+00 2169+00

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL






60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3

TRACK

PLAN AND PROFILE

STA 2165+50 TO STA 2169+50

DISCIPLINE: TRACK	SHEET NAME: W1-TRK-PRF - 015
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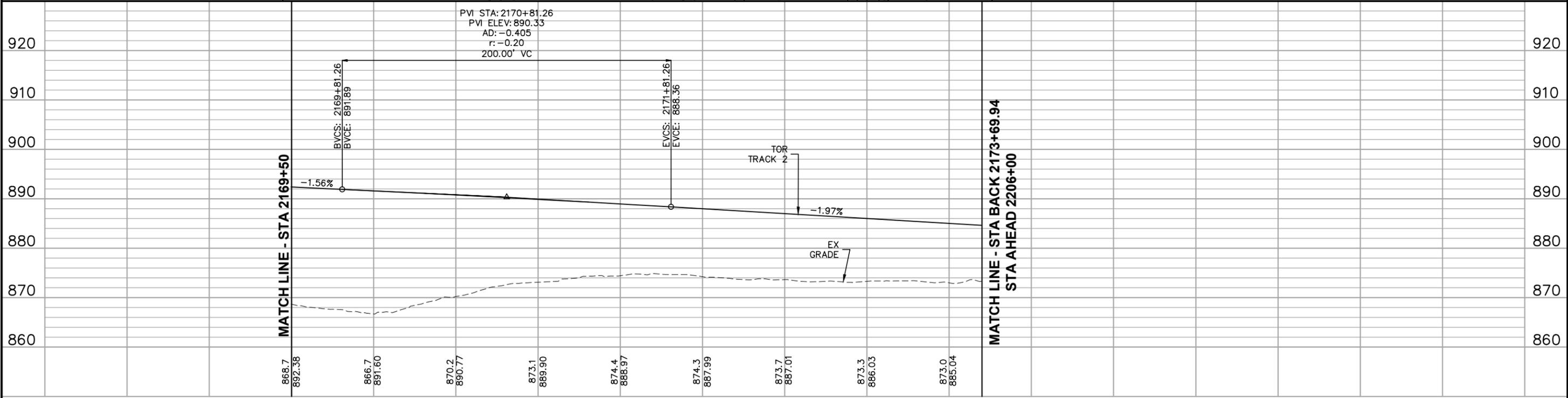
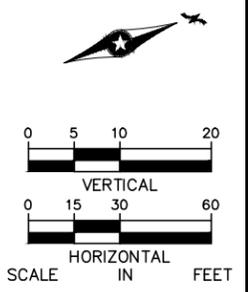
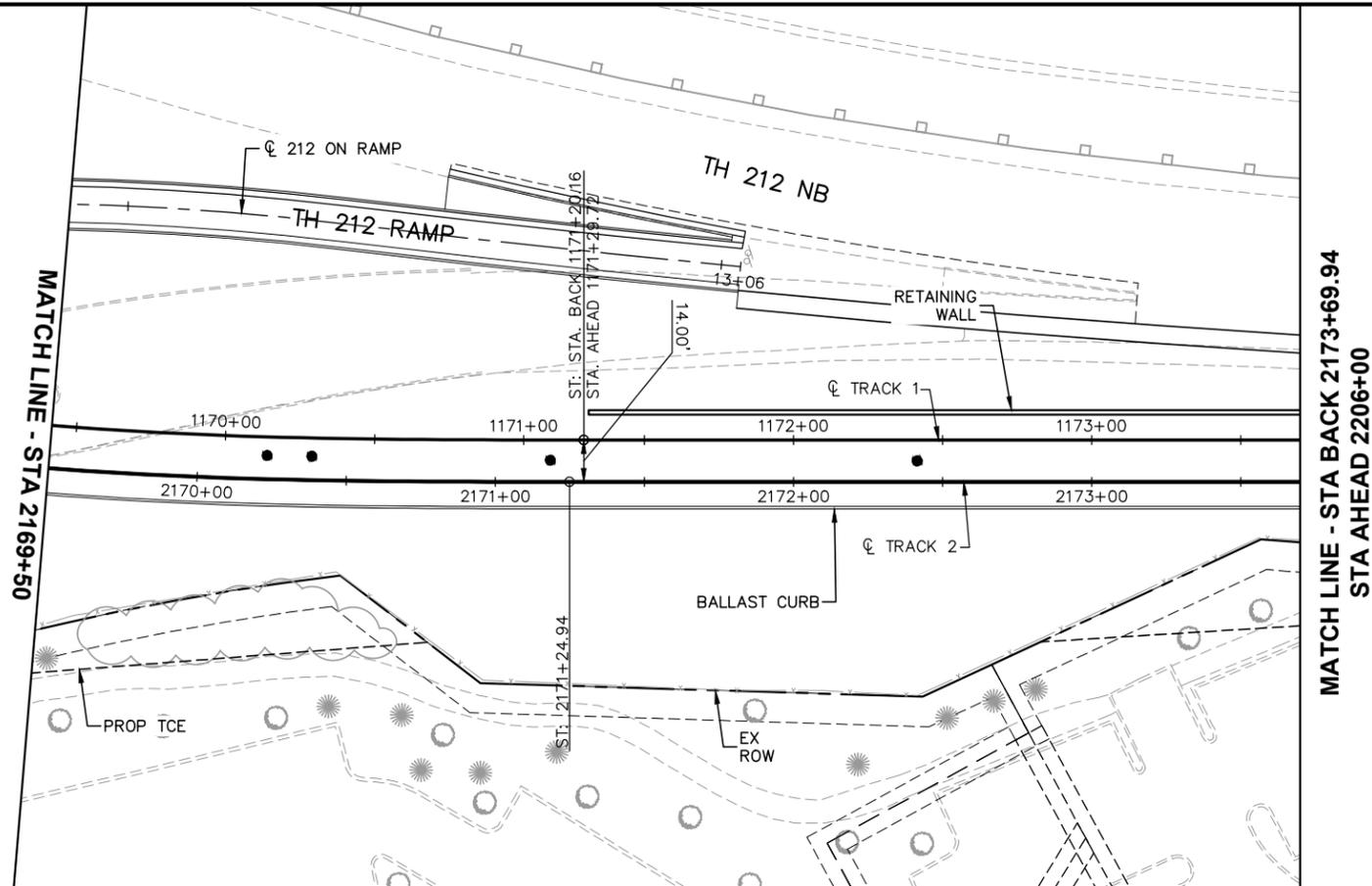
SHEET

144

OF

189

Sep. 21 2015 02:37 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W1-TRK-PRF.dwg By: MourisBM



2170+00 2171+00 2172+00 2173+00

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 09/28/15




CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2169+50 TO STA 2173+69.94

DISCIPLINE: TRACK SHEET NAME: W1-TRK-PRF - 016

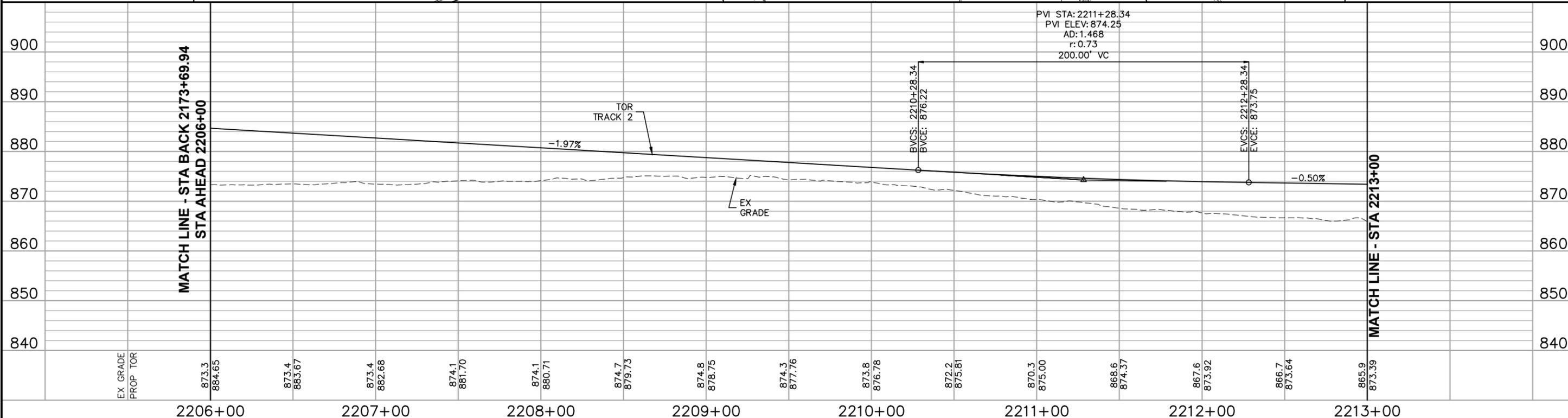
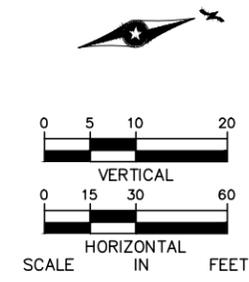
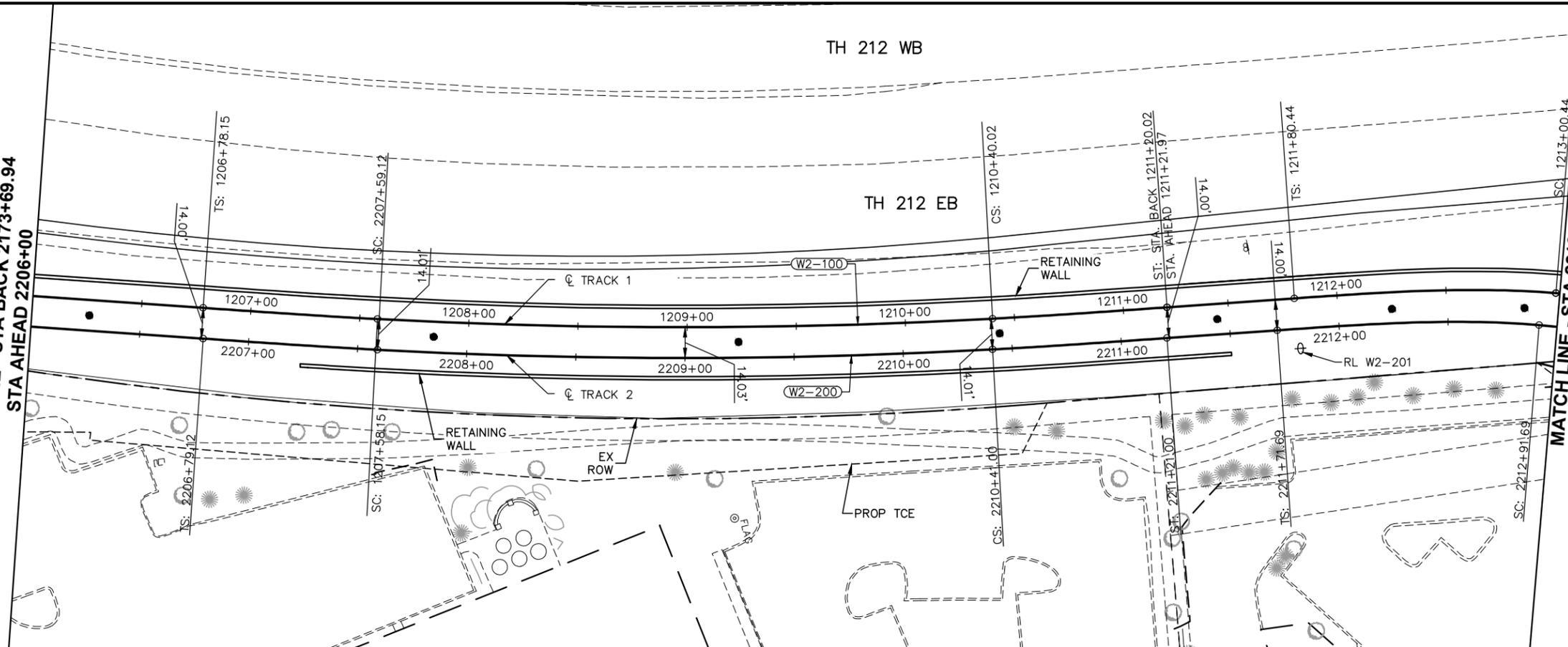
SHEET 145 OF 189

Sep. 21 2015 02:40 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: MaurisBM

CURVE NO. W2-200
R = 2600.00'
Lc = 281.87'
Ls = 80.00'
Ea = 1.50"
Eu = 1.58"
V = 45 MPH

CURVE NO. W2-100
R = 2600.00'
Lc = 281.87'
Ls = 80.00'
Ea = 1.50"
Eu = 1.58"
V = 45 MPH

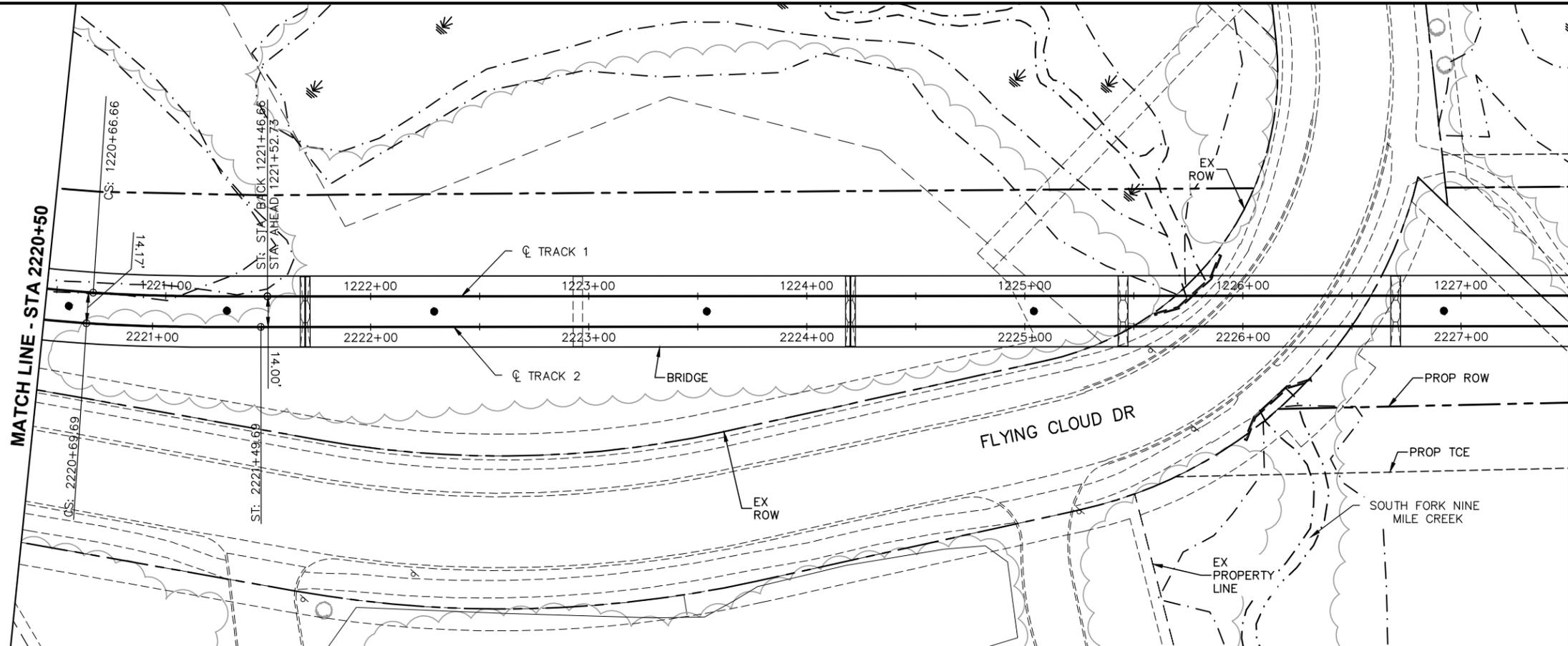
MATCH LINE - STA BACK 2173+69.94
STA AHEAD 2206+00



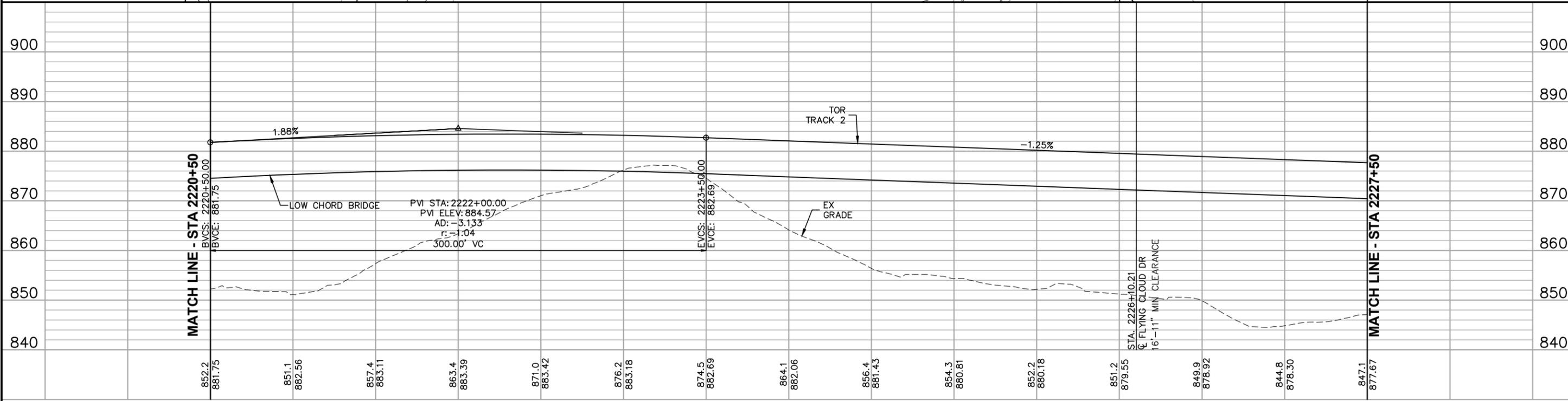
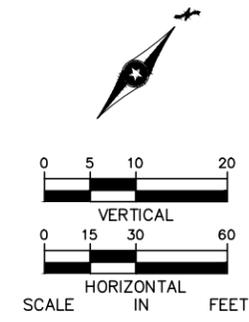
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM	METROPOLITAN COUNCIL	SOUTHWEST Green Line LRT Extension	CIVIL WEST - VOLUME 3 TRACK PLAN AND PROFILE STA 2206+00 TO STA 2213+00	SHEET 146 OF 189
60% SUBMISSION - 09/28/15			DISCIPLINE: TRACK	SHEET NAME: W2-TRK-PRF - 001

Sep. 21 2015 02:42 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: MaurisBM



MATCH LINE - STA 2227+50



2221+00 2222+00 2223+00 2224+00 2225+00 2226+00 2227+00

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

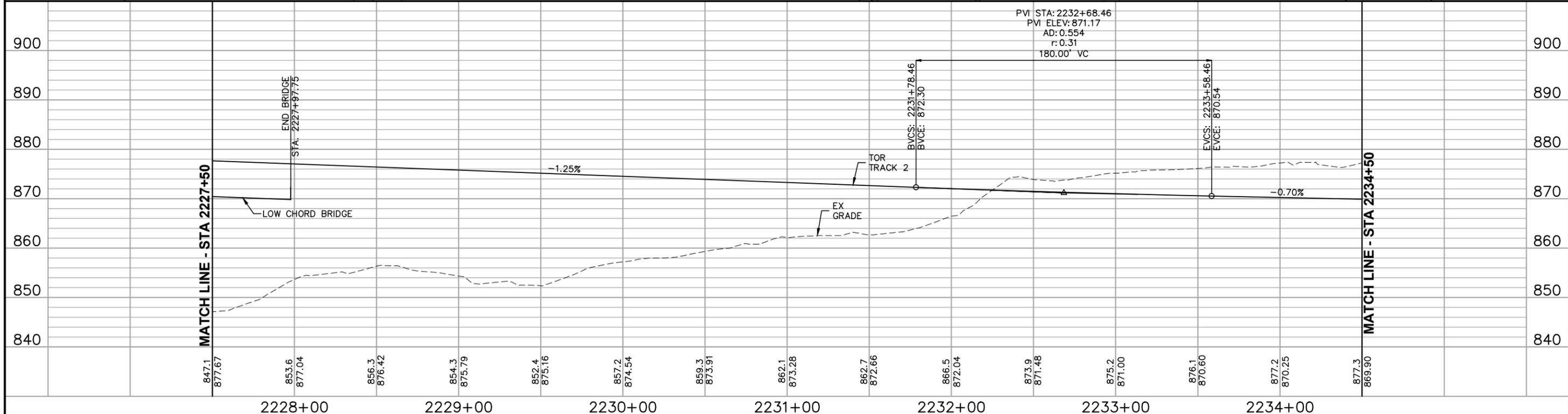
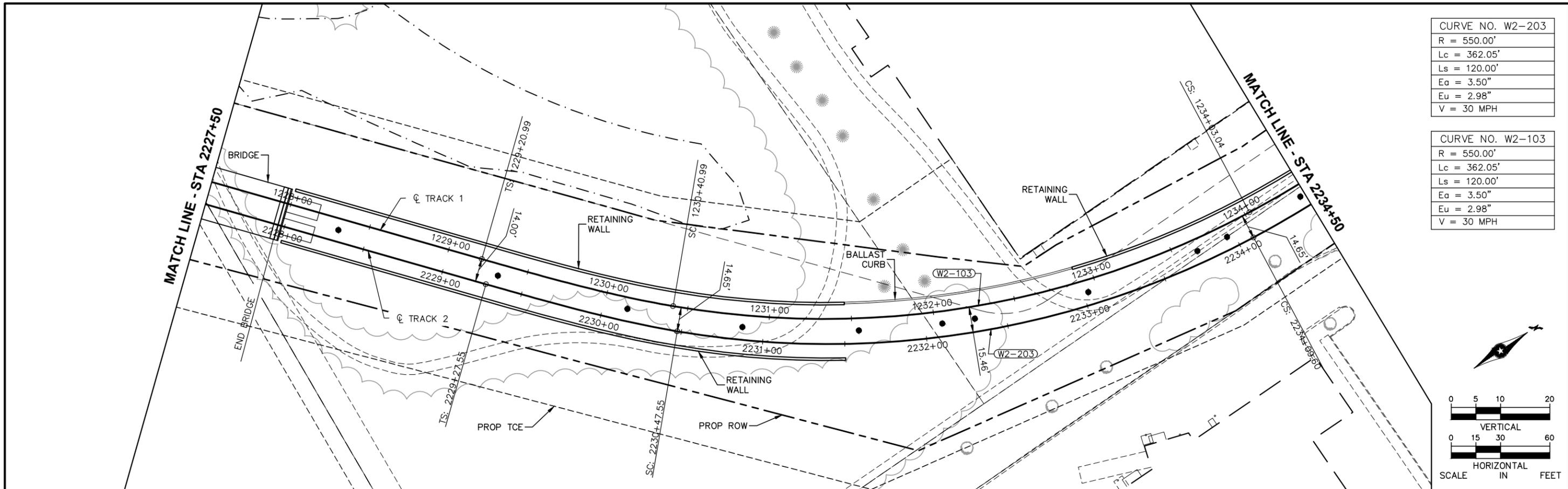


**CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2220+50 TO STA 2227+50**

DISCIPLINE: TRACK SHEET NAME: W2-TRK-PRF - 003

SHEET
148
OF
189

Sep. 21 2015 02:43 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: MaurisBM



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2227+50 TO STA 2234+50

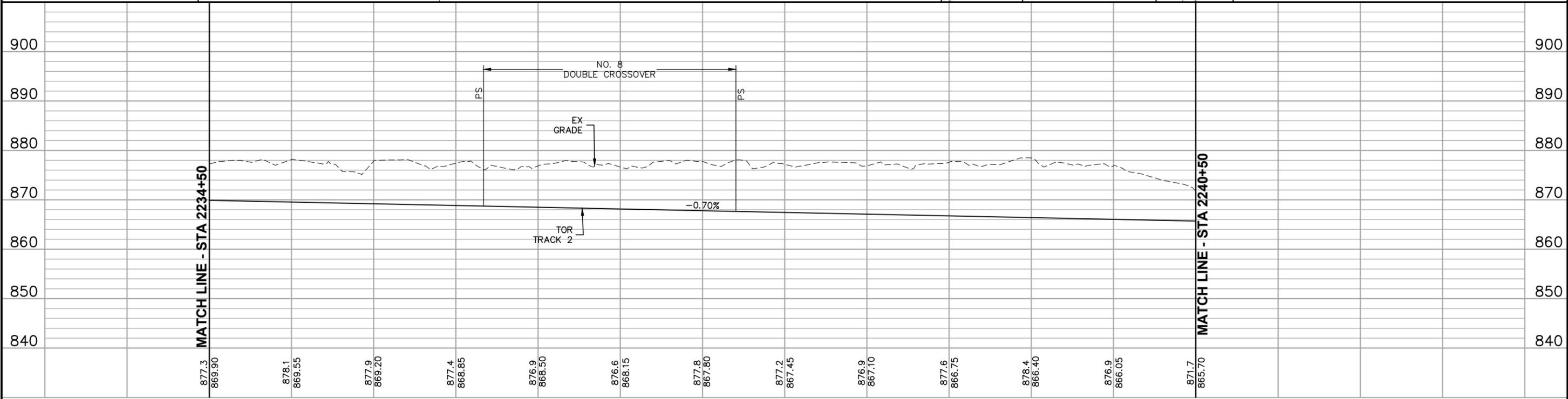
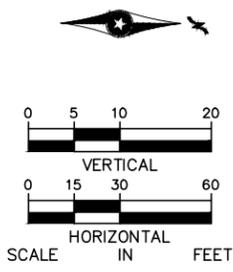
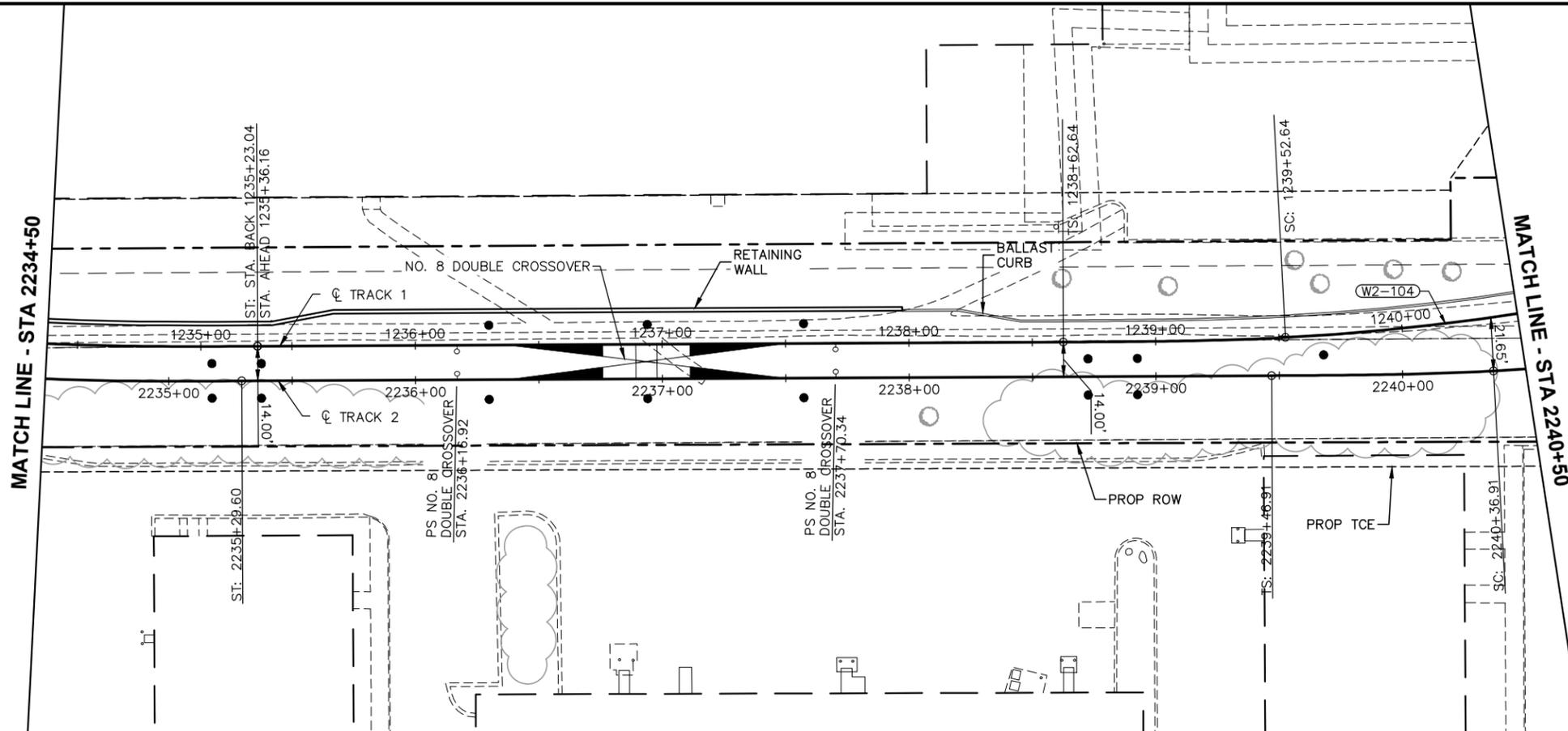
DISCIPLINE: **TRACK** SHEET NAME: **W2-TRK-PRF - 004**

SHEET **149**
OF
189

Sep. 21 2015 02:43 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: MaurisBM

CURVE NO. W2-204
R = 950.00'
Lc = 98.95'
Ls = 90.00'
Ea = 1.00"
Eu = 2.75"
V = 30 MPH

CURVE NO. W2-104
R = 950.00'
Lc = 98.95'
Ls = 90.00'
Ea = 1.00"
Eu = 2.75"
V = 30 MPH



2235+00 2236+00 2237+00 2238+00 2239+00 2240+00

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



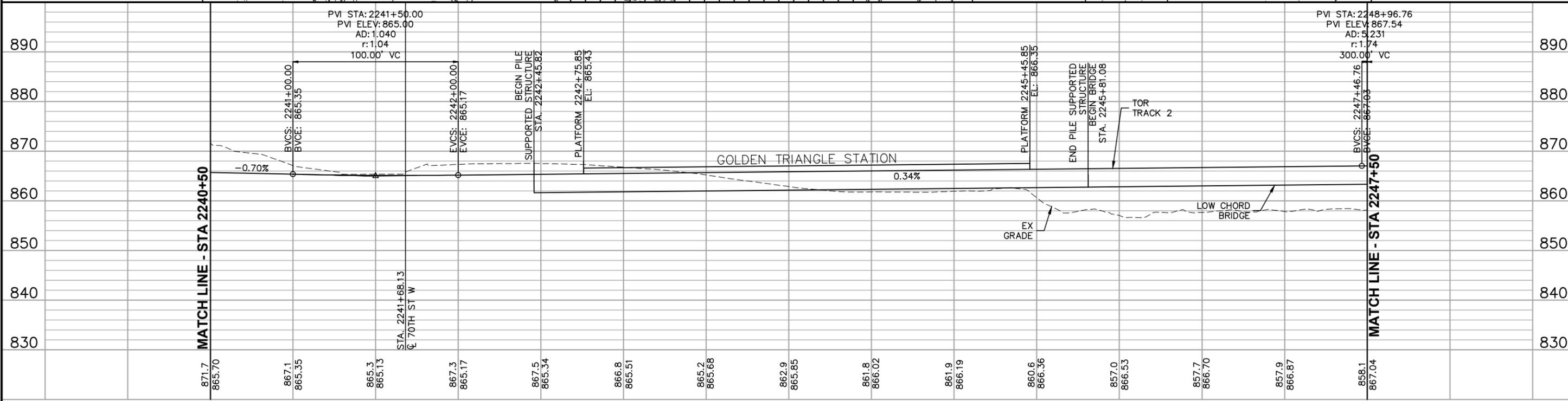
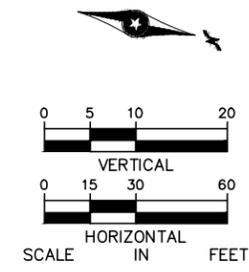
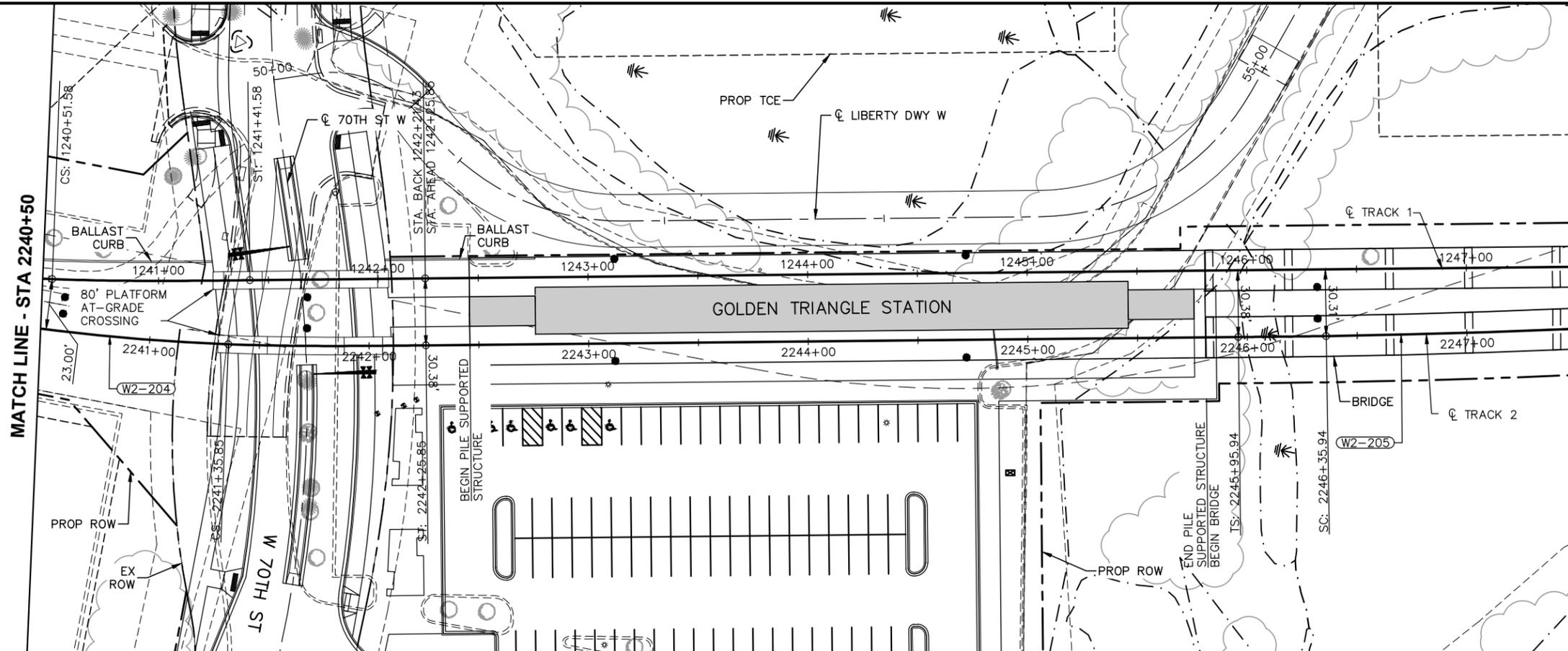
60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 3		SHEET 150 OF 189
TRACK		
PLAN AND PROFILE		
STA 2234+50 TO STA 2240+50		
DISCIPLINE:	TRACK	SHEET NAME:
		W2-TRK-PRF - 005

Sep. 21 2015 02:44 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: MaurisBM

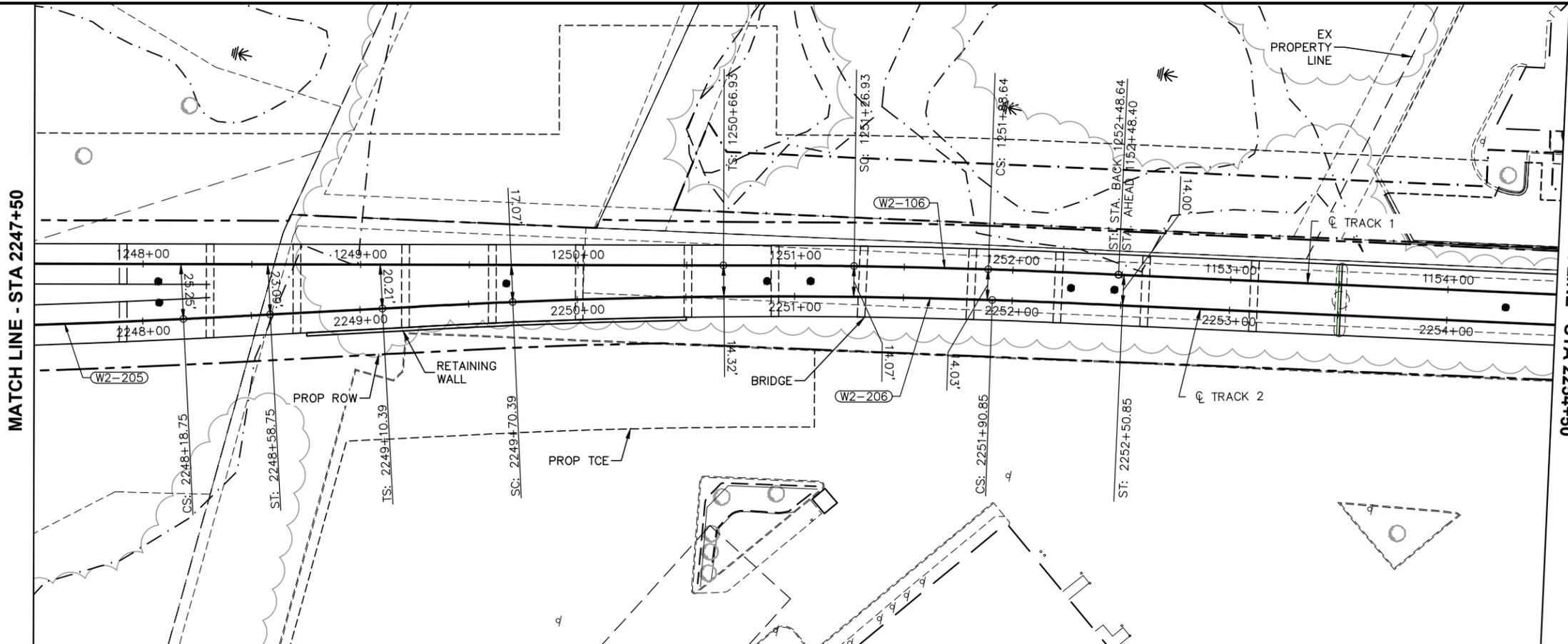
CURVE NO. W2-205
R = 4000.00'
Lc = 182.81'
Ls = 40.00'
Ea = 0.75"
Eu = 0.83"
V = 40 MPH



871.7	865.70	867.1	865.35	865.3	865.13	867.3	865.17	867.5	865.34	866.8	865.51	865.2	865.68	862.9	865.85	861.8	866.02	861.9	866.19	860.6	866.36	857.0	866.53	857.7	866.70	857.9	866.87	858.1	867.04
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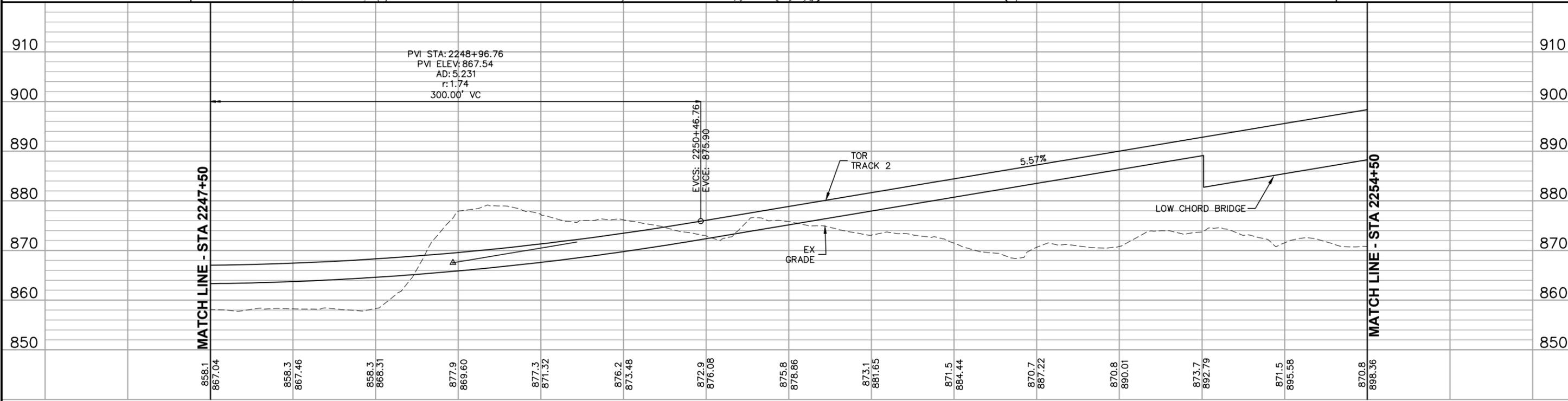
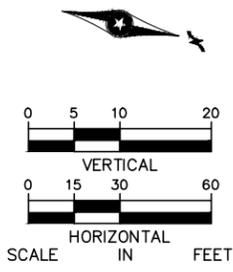
NO. DATE BY CHECK DESIGN REVISION / SUBMITTAL							CIVIL WEST - VOLUME 3 TRACK PLAN AND PROFILE STA 2240+50 TO STA 2247+50		SHEET 151 OF 189
							60% SUBMISSION - 09/28/15		

Sep. 21 2015 02:45 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: MaurisBM



CURVE NO. W2-206
R = 2850.00'
Lc = 220.46'
Ls = 60.00'
Ea = 1.00"
Eu = 1.22"
V = 40 MPH

CURVE NO. W2-106
R = 2850.00'
Lc = 61.71'
Ls = 60.00'
Ea = 1.00"
Eu = 1.22"
V = 40 MPH



856.1 867.04	858.3 867.46	858.3 866.31	877.9 869.60	877.3 871.32	876.2 873.48	872.9 876.08	875.8 878.86	873.1 881.65	871.5 884.44	870.7 887.22	870.8 890.01	873.7 892.79	871.5 895.58	870.8 898.36
2248+00		2249+00		2250+00		2251+00		2252+00		2253+00		2254+00		

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

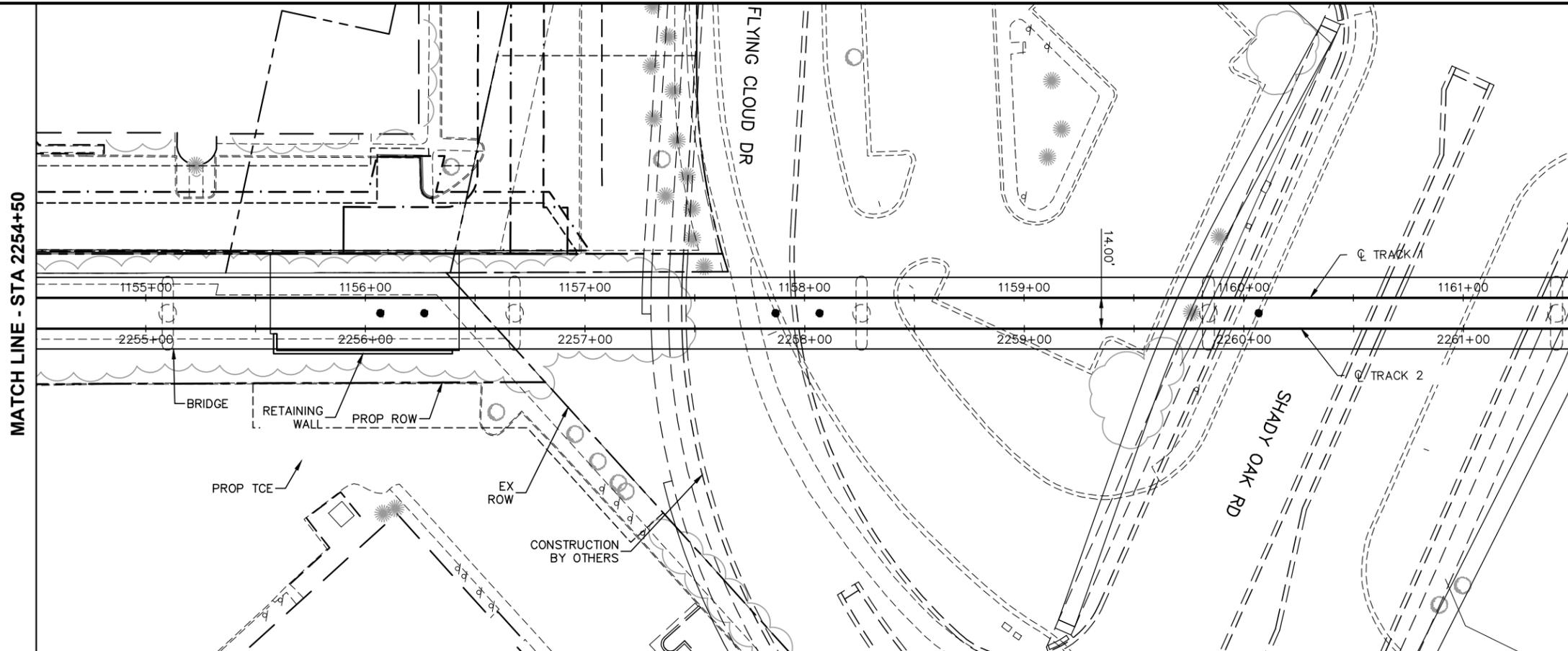


**CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2247+50 TO STA 2254+50**

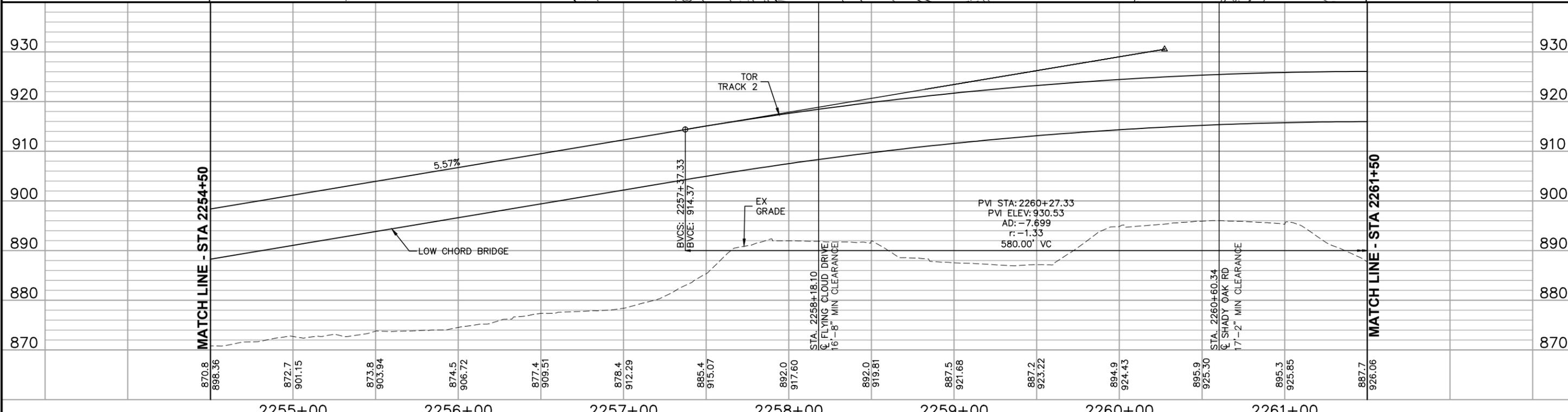
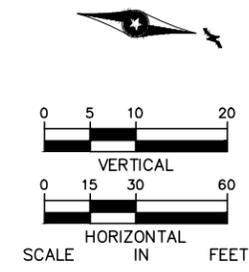
DISCIPLINE: TRACK SHEET NAME: W2-TRK-PRF - 007

SHEET 152 OF 189

Sep. 21 2015 11:12 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: V-RosulL



MATCH LINE - STA 2261+50



MATCH LINE - STA 2254+50

MATCH LINE - STA 2261+50

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3

TRACK

PLAN AND PROFILE

STA 2254+50 TO STA 2261+50

DISCIPLINE: **TRACK** SHEET NAME: **W2-TRK-PRF - 008**

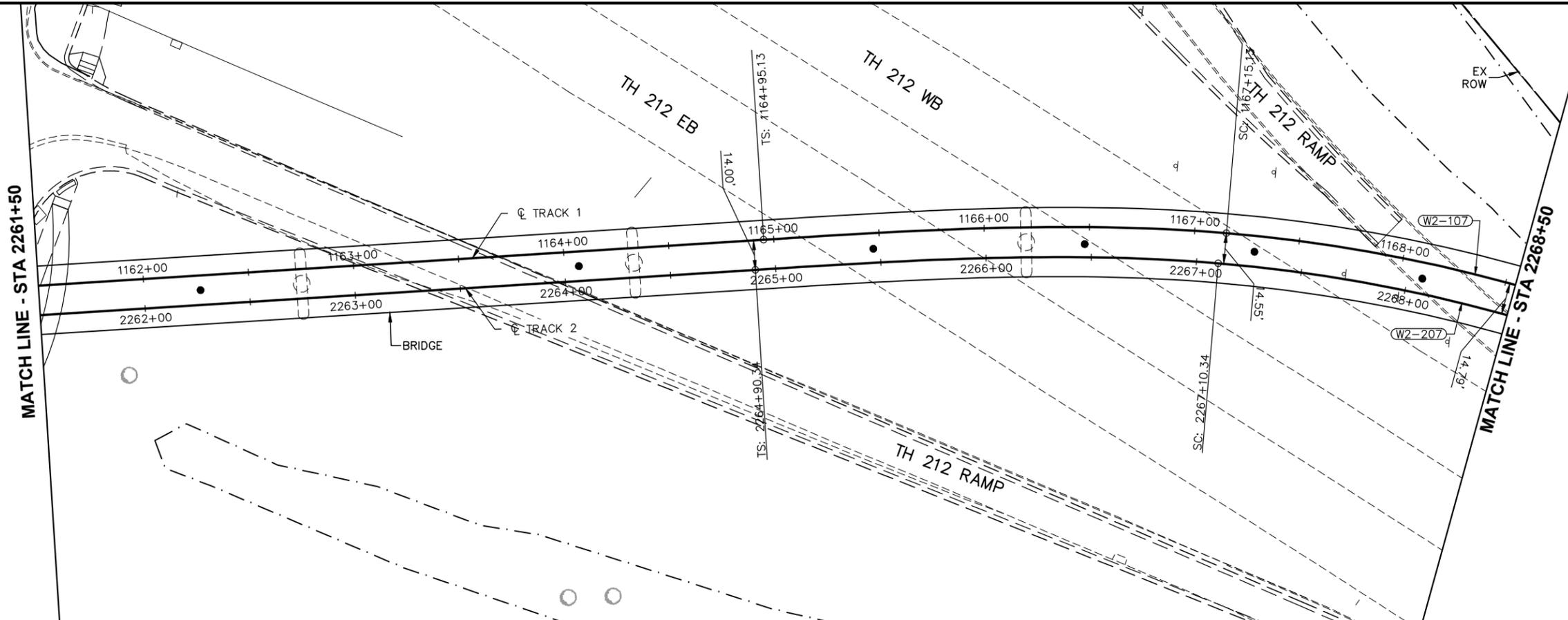
SHEET

153

OF

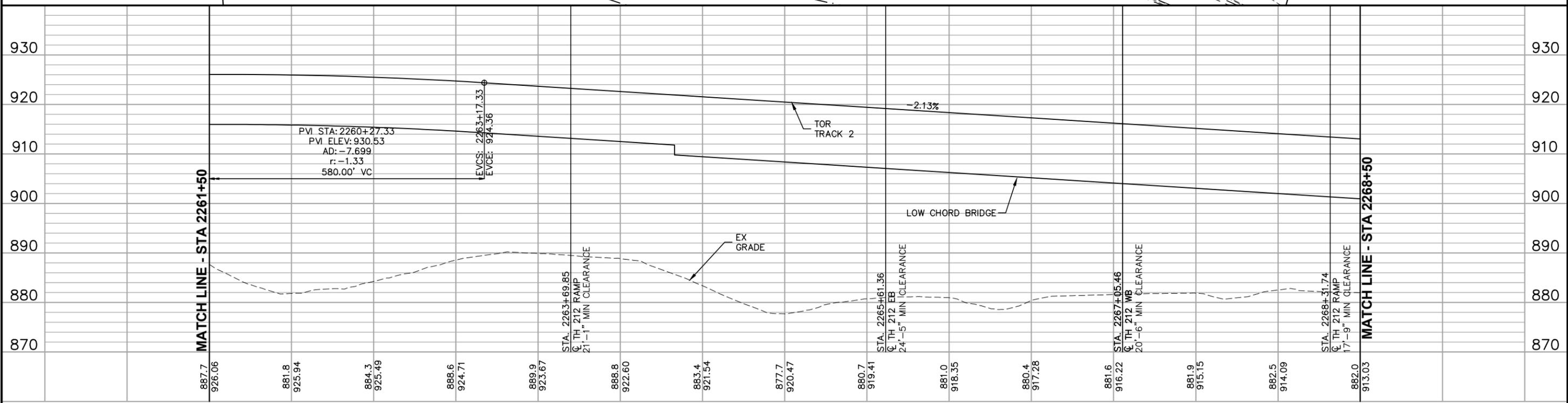
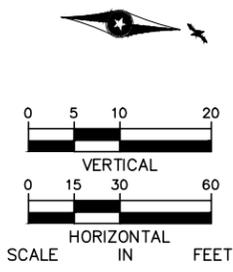
189

Sep. 21 2015 02:47 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: MaurisBM



CURVE NO. W2-107
R = 750.00'
Lc = 273.78'
Ls = 220.00'
Ea = 4.00"
Eu = 4.45"
V = 40 MPH

CURVE NO. W2-107
R = 750.00'
Lc = 273.78'
Ls = 220.00'
Ea = 4.00"
Eu = 4.45"
V = 40 MPH



887.7 926.06	881.8 925.94	884.3 925.49	888.6 924.71	889.9 923.67	888.8 922.60	883.4 921.54	877.7 920.47	880.7 919.41	881.0 918.35	880.4 917.28	881.6 916.22	881.9 915.15	882.5 914.09	882.0 913.03
2262+00		2263+00		2264+00		2265+00		2266+00		2267+00		2268+00		

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 09/28/15




CIVIL WEST - VOLUME 3

TRACK

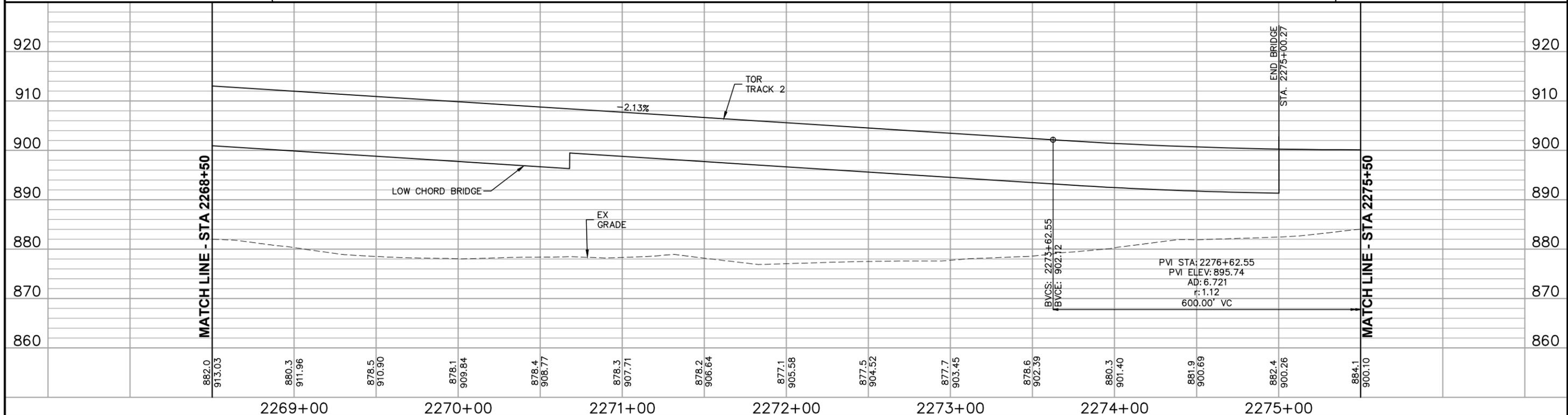
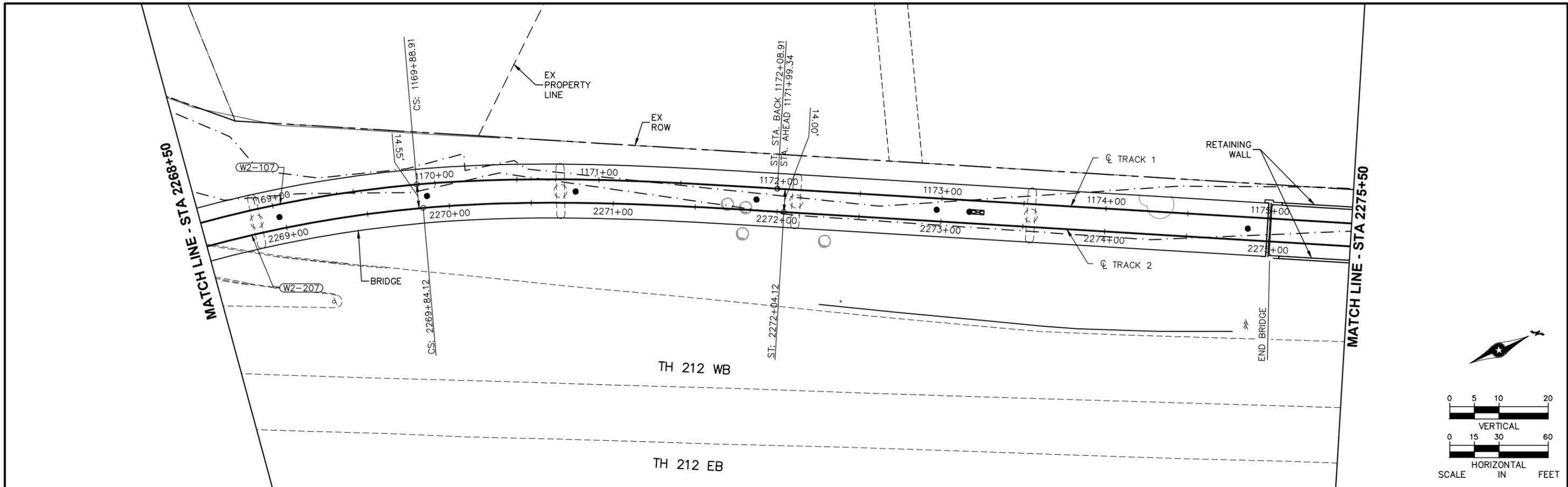
PLAN AND PROFILE

STA 2261+50 TO STA 2268+50

DISCIPLINE: **TRACK** SHEET NAME: **W2-TRK-PRF - 009**

SHEET 154 OF 189

Sep. 21 2015 02:48 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: MaurisBM



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

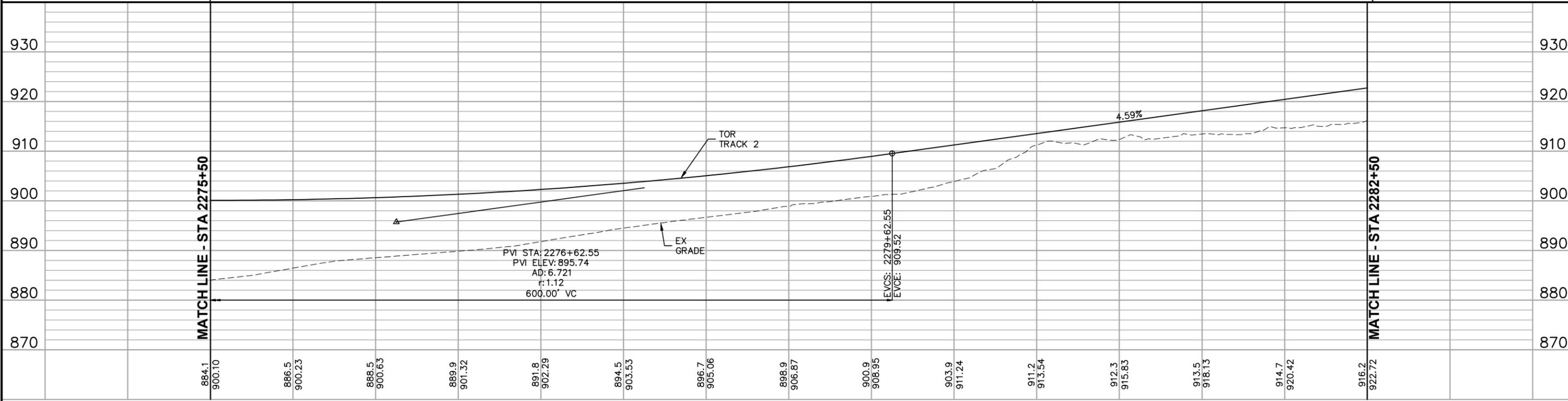
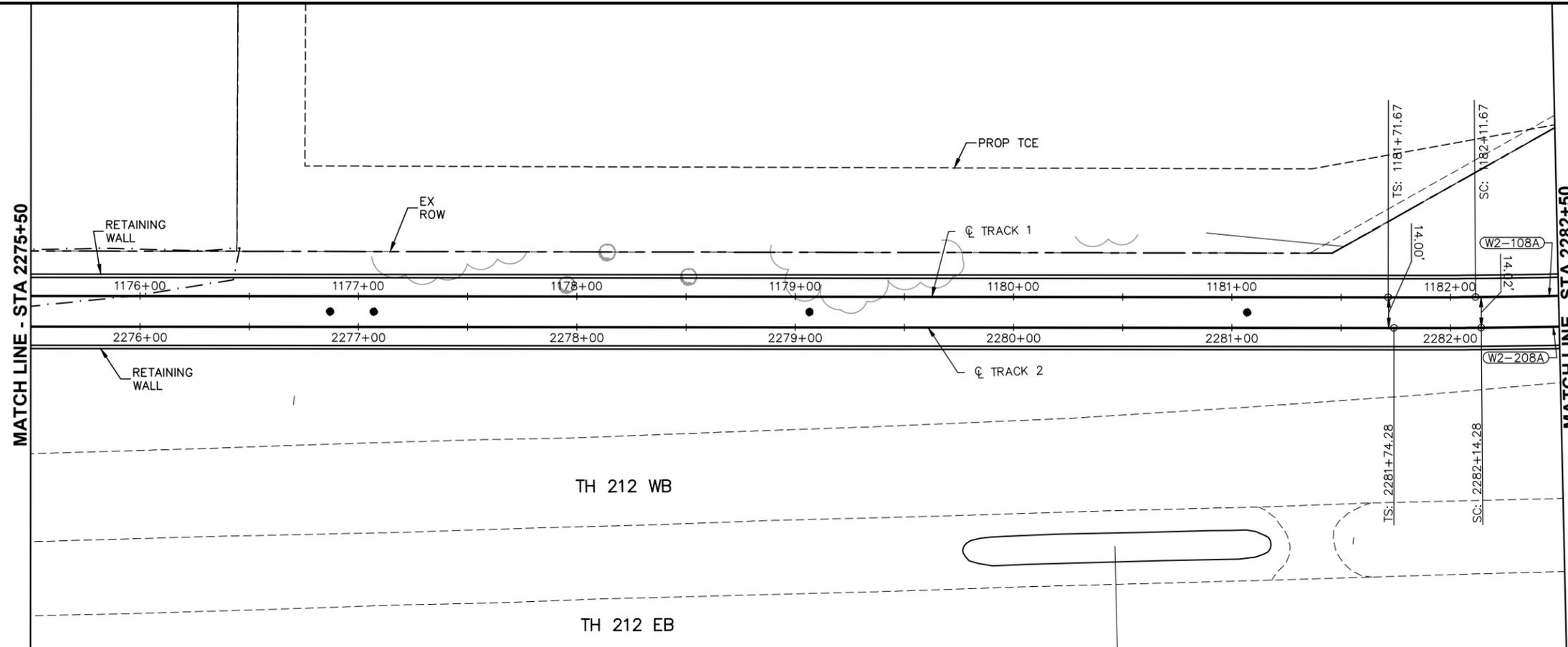


60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 3		SHEET
TRACK		
PLAN AND PROFILE		OF
STA 2268+50 TO STA 2275+50		189
DISCIPLINE:	TRACK	SHEET NAME:
		W2-TRK-PRF - 010

Sep. 21 2015 02:48 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: MaurisBM



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2275+50 TO STA 2282+50

DISCIPLINE: **TRACK** SHEET NAME: **W2-TRK-PRF - 011**

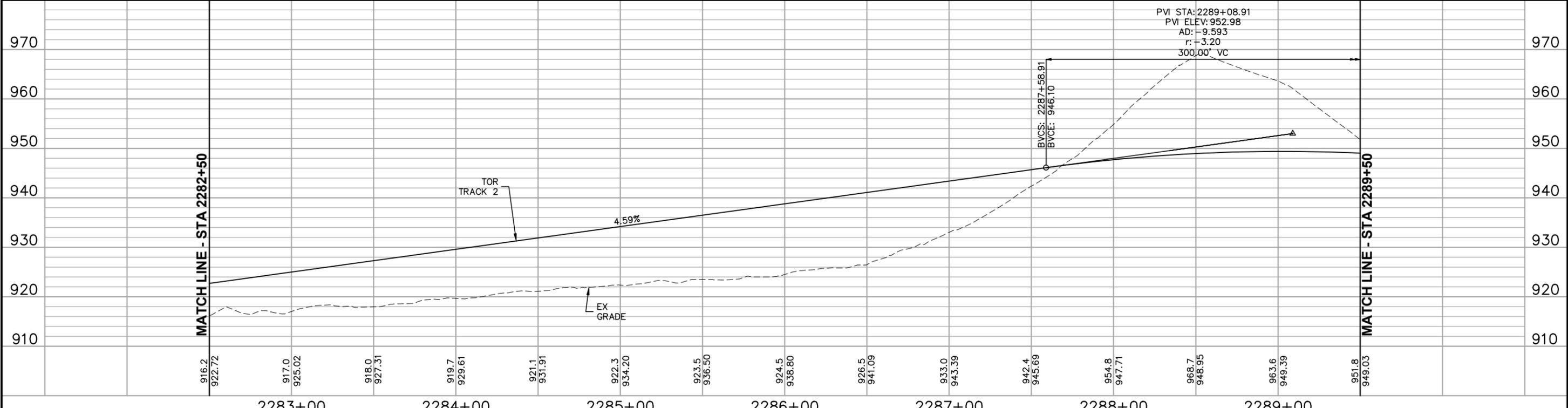
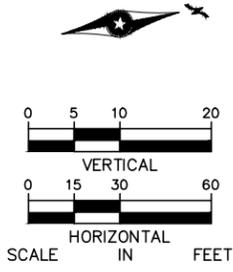
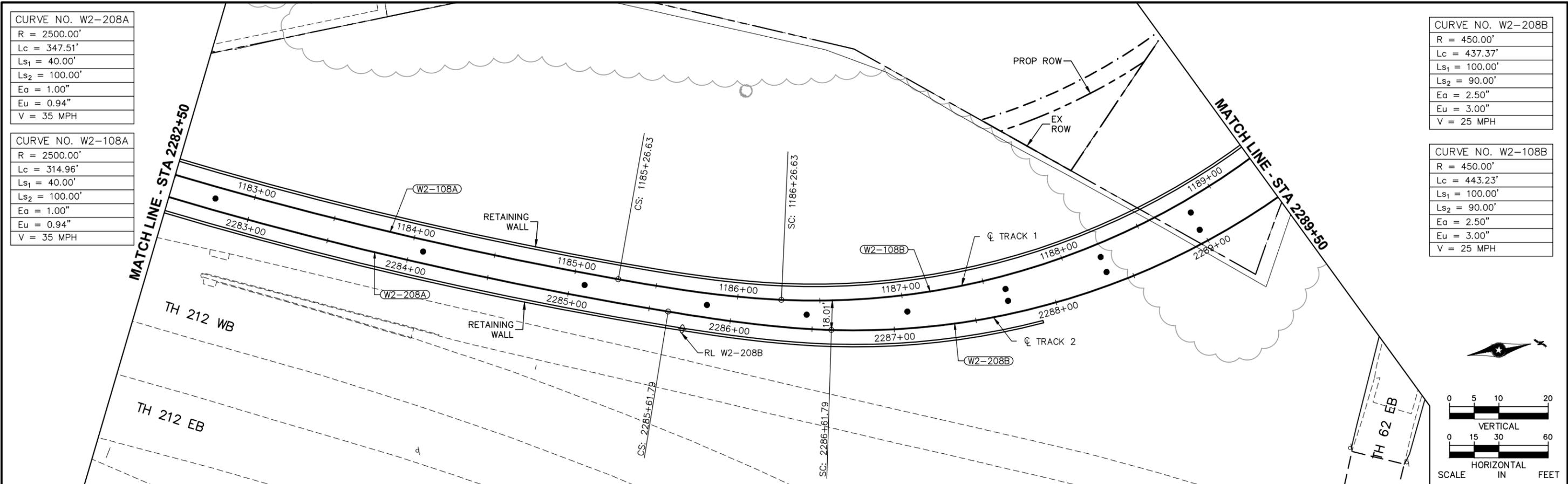
SHEET
156
OF
189

CURVE NO. W2-208A
R = 2500.00'
Lc = 347.51'
Ls1 = 40.00'
Ls2 = 100.00'
Ea = 1.00"
Eu = 0.94"
V = 35 MPH

CURVE NO. W2-108A
R = 2500.00'
Lc = 314.96'
Ls1 = 40.00'
Ls2 = 100.00'
Ea = 1.00"
Eu = 0.94"
V = 35 MPH

CURVE NO. W2-208B
R = 450.00'
Lc = 437.37'
Ls1 = 100.00'
Ls2 = 90.00'
Ea = 2.50"
Eu = 3.00"
V = 25 MPH

CURVE NO. W2-108B
R = 450.00'
Lc = 443.23'
Ls1 = 100.00'
Ls2 = 90.00'
Ea = 2.50"
Eu = 3.00"
V = 25 MPH

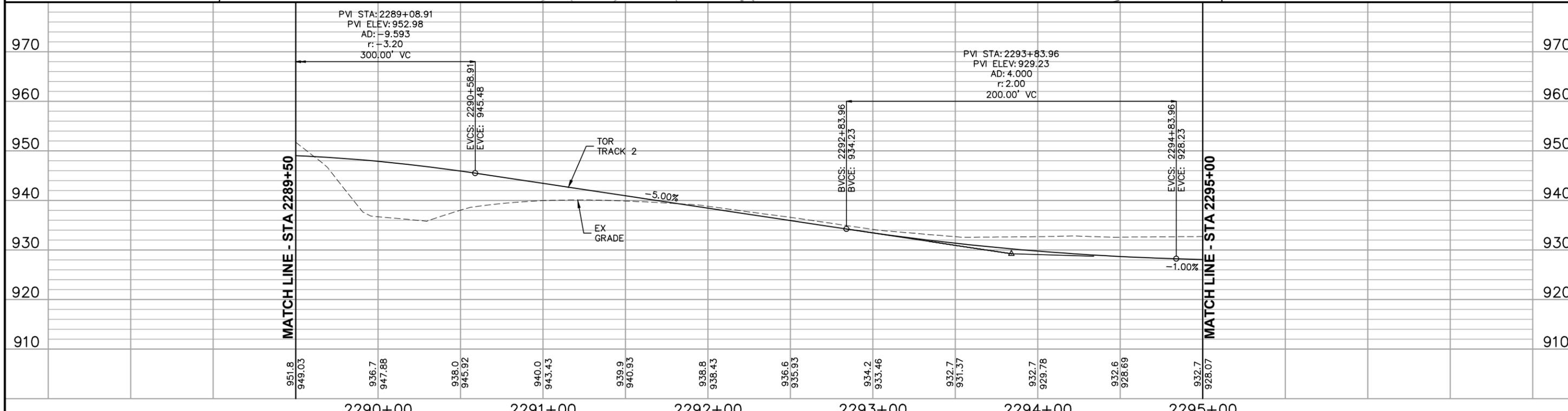
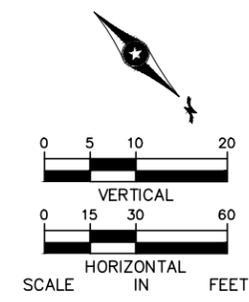
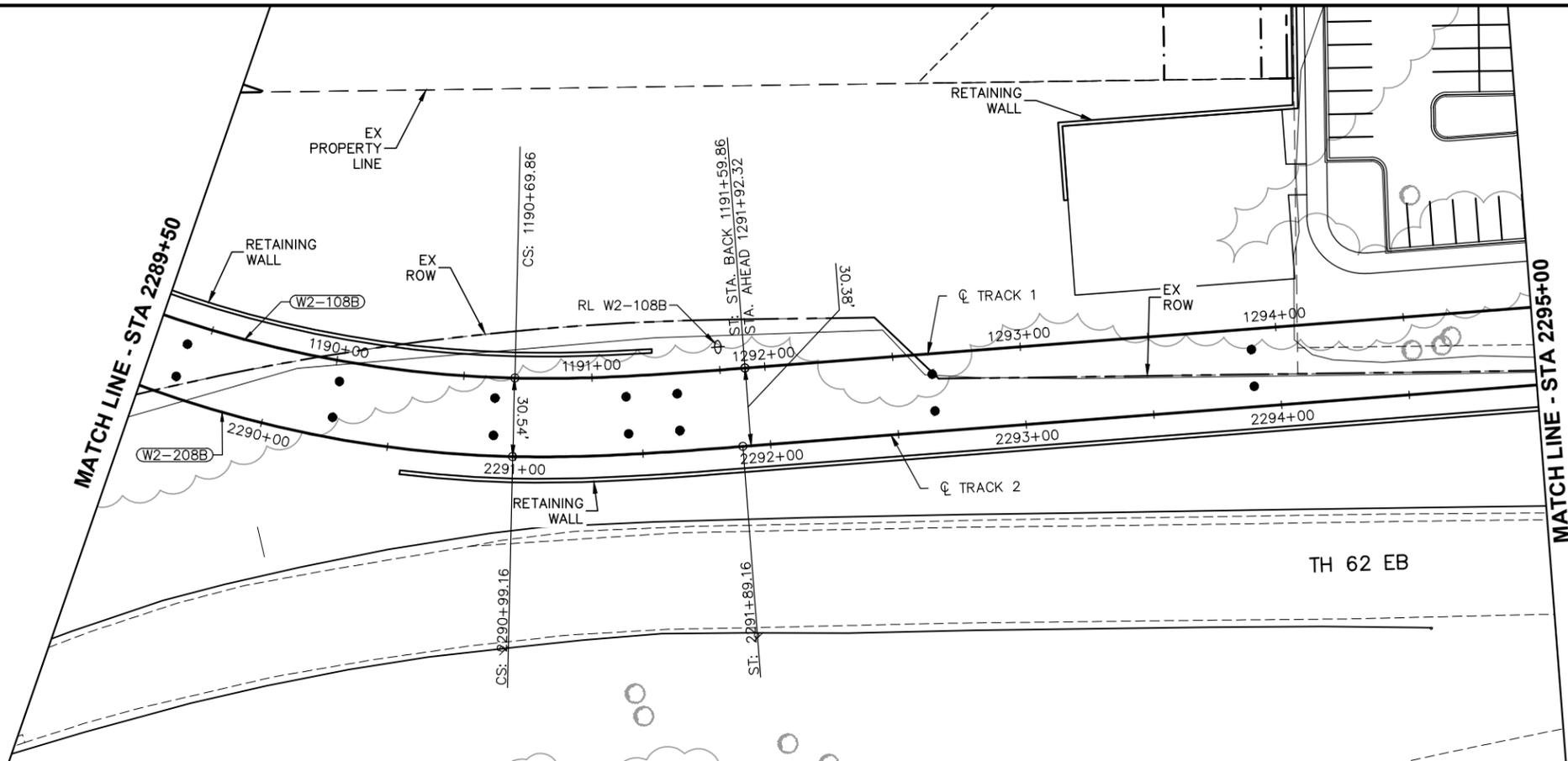


NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

			CIVIL WEST - VOLUME 3 TRACK PLAN AND PROFILE STA 2282+50 TO STA 2289+50		SHEET 157 OF 189
			DISCIPLINE: TRACK	SHEET NAME: W2-TRK-PRF - 012	
60% SUBMISSION - 09/28/15					

Sep. 21 2015 02:49 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: MaurisBM

Sep. 21 2015 11:14 am v:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: V-RosulL



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3

TRACK

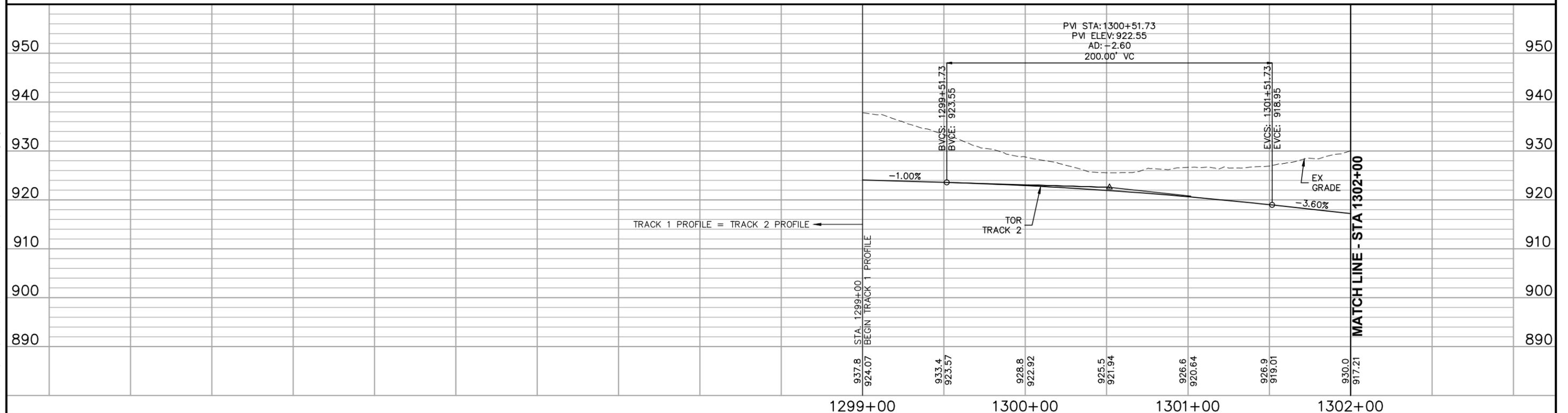
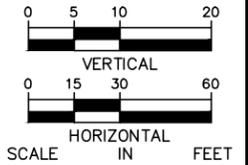
PLAN AND PROFILE

STA 2289+50 TO STA 2295+00

DISCIPLINE: TRACK	SHEET NAME: W2-TRK-PRF - 013
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SHEET
158
OF
189

SEE SHEET W2-TRK-PRF - 014 FOR PLAN VIEW

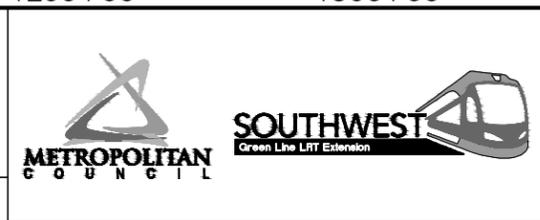


Sep. 21 2015 02:51 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: MourisBM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

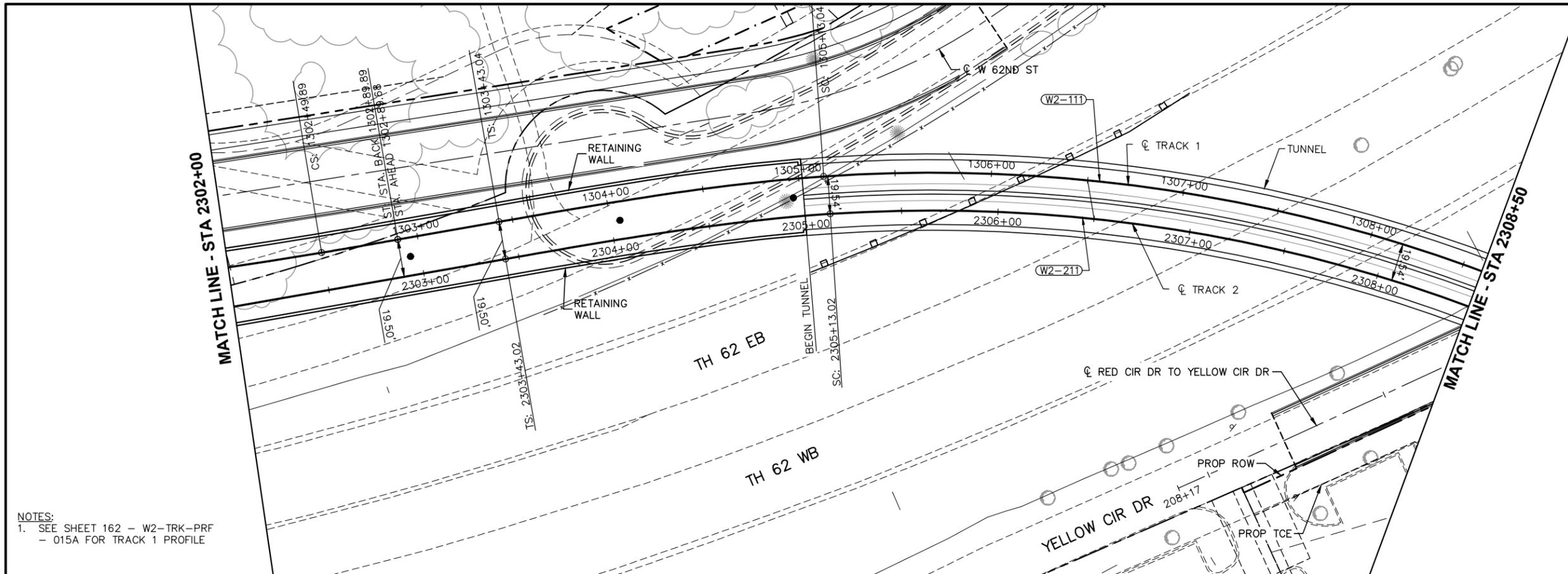


**CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS
STA 1299+00 TO STA 1302+00**

DISCIPLINE: TRACK SHEET NAME: W2-TRK-PRF - 014A

SHEET 160 OF 189

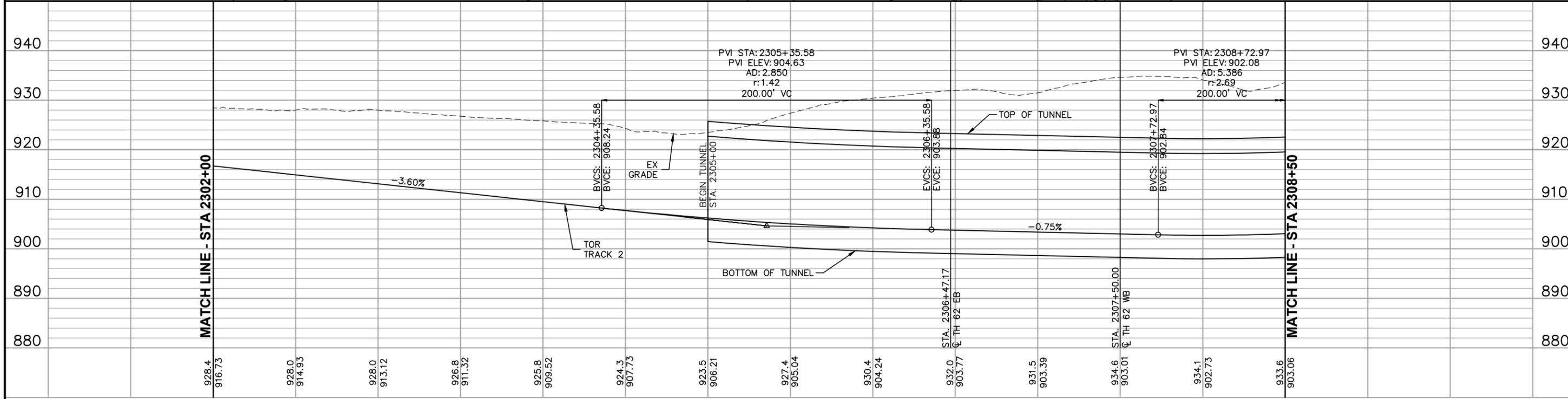
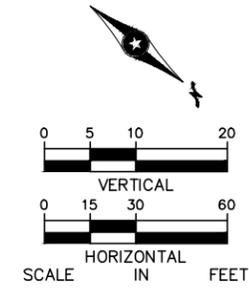
Sep. 21 2015 02:52 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: MaurisBM



CURVE NO. W2-211
R = 800.00'
Lc = 589.82'
Ls = 170.00'
Ea = 4.00"
Eu = 3.92"
V = 40 MPH

CURVE NO. W2-111
R = 819.50'
Lc = 608.34'
Ls = 170.00'
Ea = 4.00"
Eu = 3.73"
V = 40 MPH

NOTES:
1. SEE SHEET 162 - W2-TRK-PRF - 015A FOR TRACK 1 PROFILE



2302+00	2303+00	2304+00	2305+00	2306+00	2307+00	2308+00
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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 09/28/15

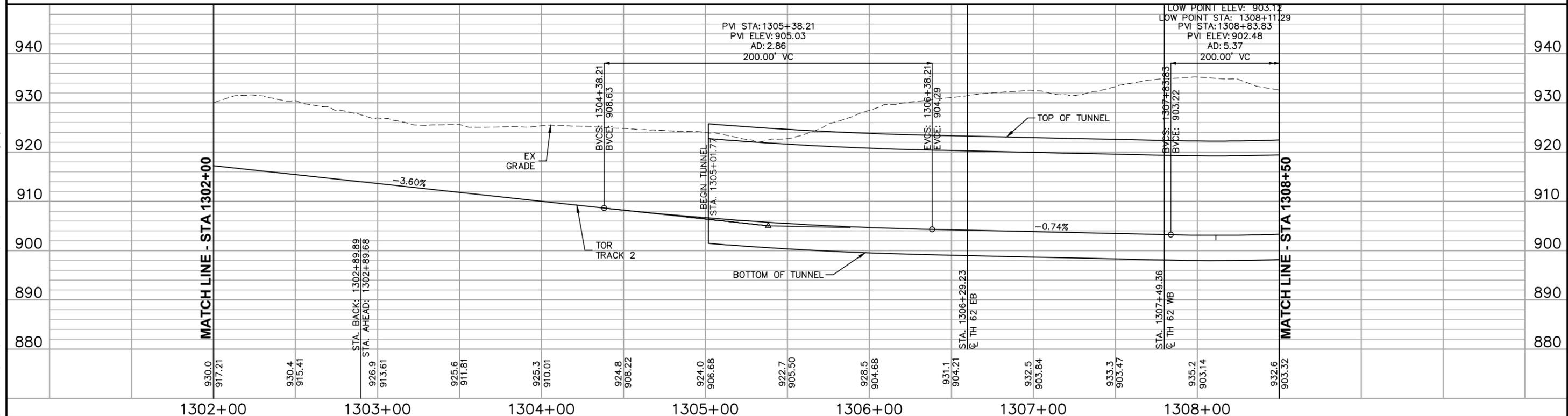
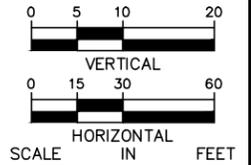



CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2302+00 TO STA 2308+50

DISCIPLINE: **TRACK** SHEET NAME: **W2-TRK-PRF - 015**

SHEET
161
OF
189

SEE SHEET W2-TRK-PRF - 015 FOR PLAN VIEW



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

STA. BACK: 1302+89.89
STA. AHEAD: 1302+89.68
926.9
913.61

AECOM

60% SUBMISSION - 09/28/15

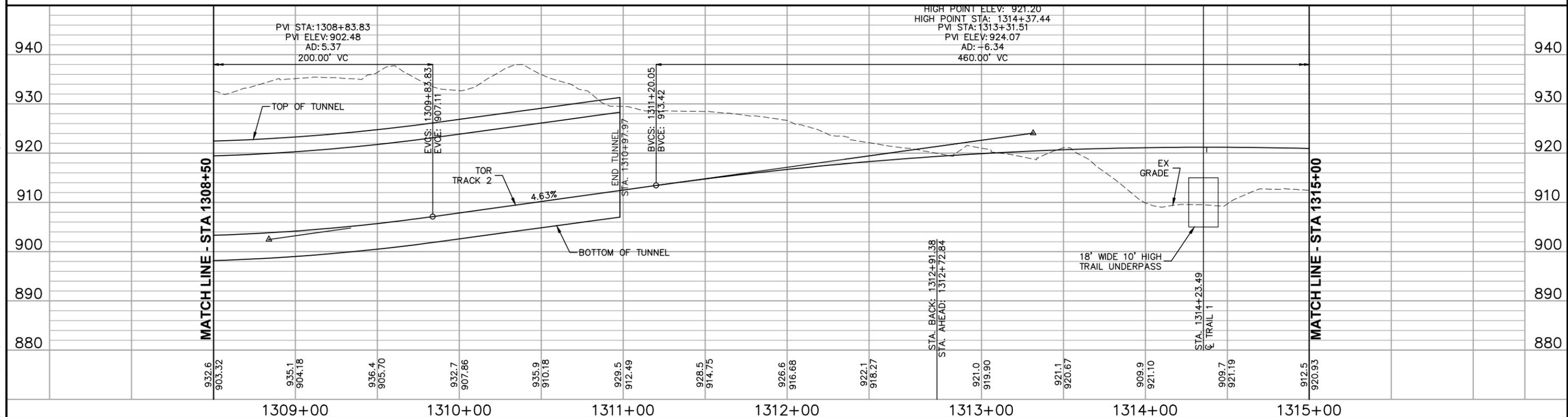
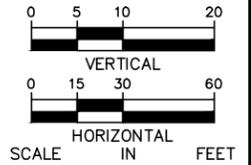
CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS
STA 1302+00 TO STA 1308+50

DISCIPLINE: TRACK
SHEET NAME: W2-TRK-PRF - 015A

SHEET
162
OF
189

Sep. 21 2015 02:52 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: MaurisBM

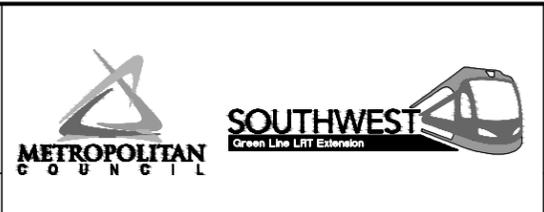
SEE SHEET W2-TRK-PRF - 016 FOR PLAN VIEW



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15



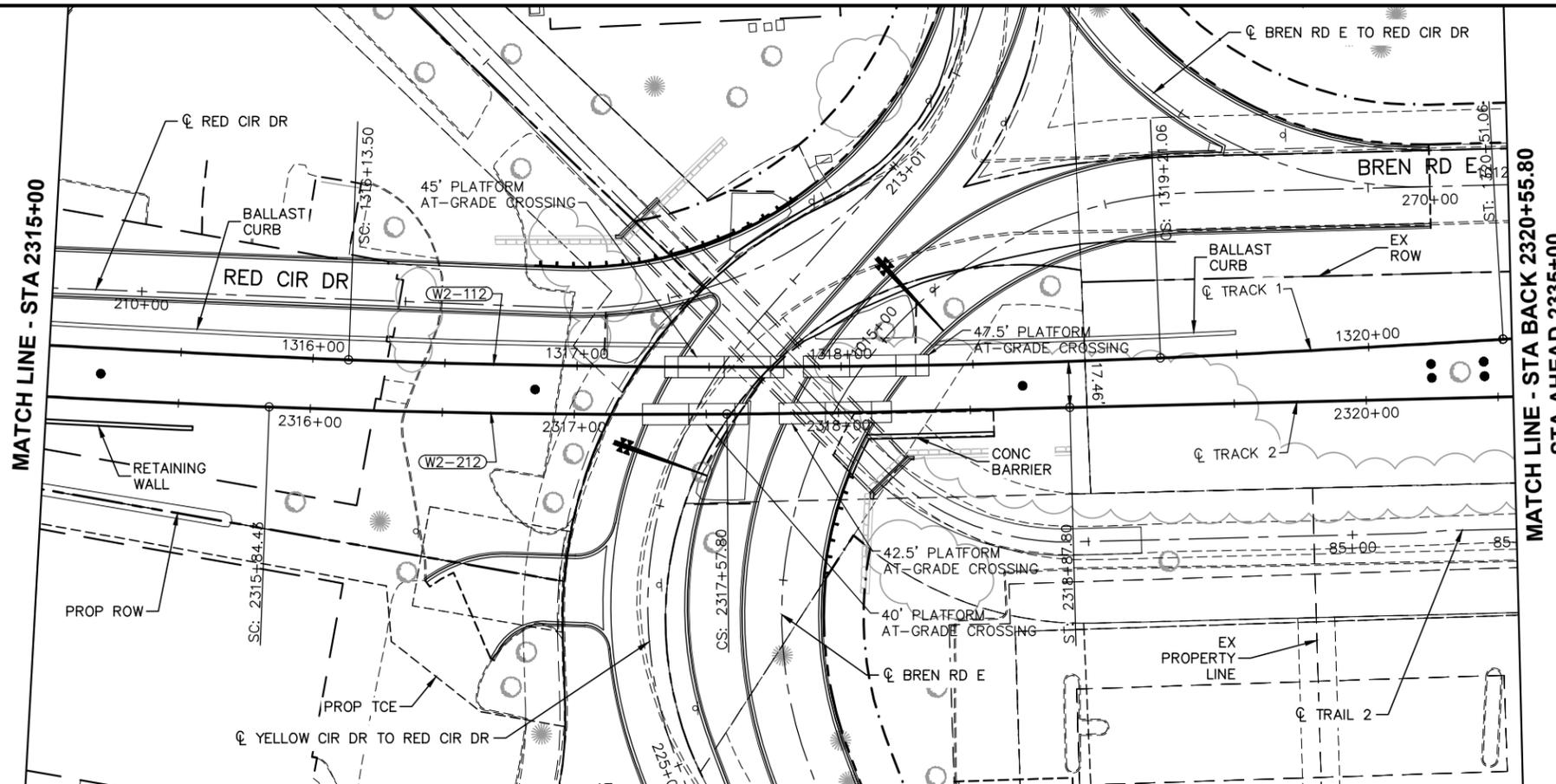
CIVIL WEST - VOLUME 3
 TRACK
 TYPICAL SECTIONS
 STA 1308+50 TO STA 1315+00

DISCIPLINE: TRACK
 SHEET NAME: W2-TRK-PRF - 016A

SHEET
 164
 OF
 189

Sep. 21 2015 02:54 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: MaurisBM

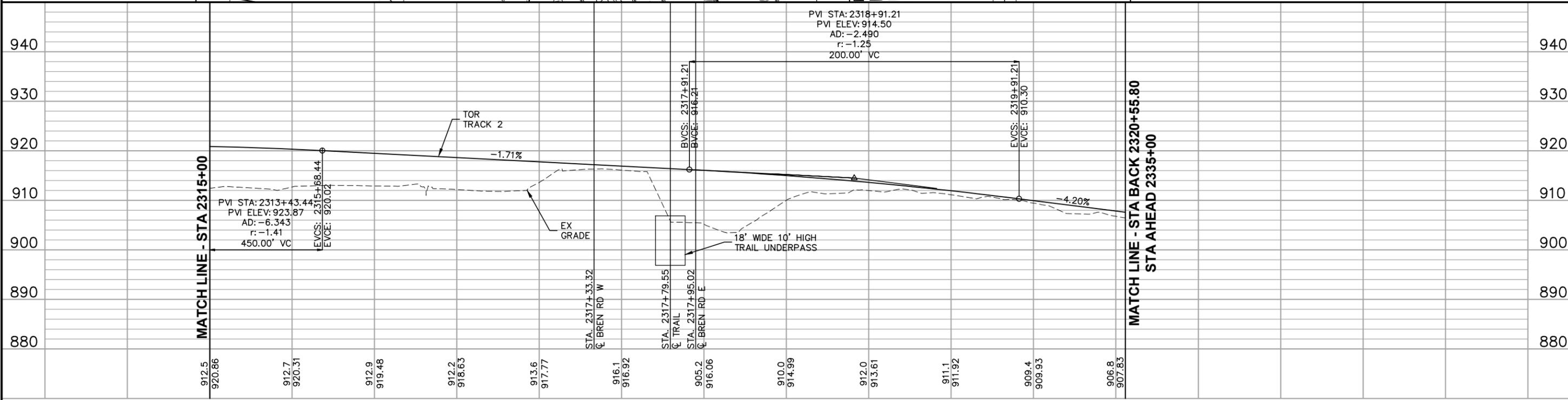
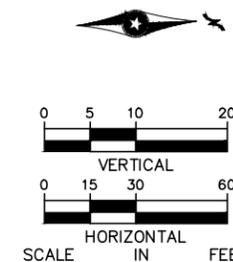
Sep. 21 2015 02:54 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W2-TRK-PRF.dwg By: MaurisBM



CURVE NO. W2-212
R = 3800.00'
Lc = 173.37'
Ls = 130.00'
Ea = 1.00"
Eu = 2.15"
V = 55 MPH

CURVE NO. W2-112
R = 3800.00'
Lc = 307.57'
Ls = 130.00'
Ea = 1.00"
Eu = 2.15"
V = 55 MPH

NOTES:
1. SEE SHEET 166 - W2-TRK-PRF - 017A FOR TRACK 1 PROFILE



2315+00 2316+00 2317+00 2318+00 2319+00 2320+00

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3

TRACK

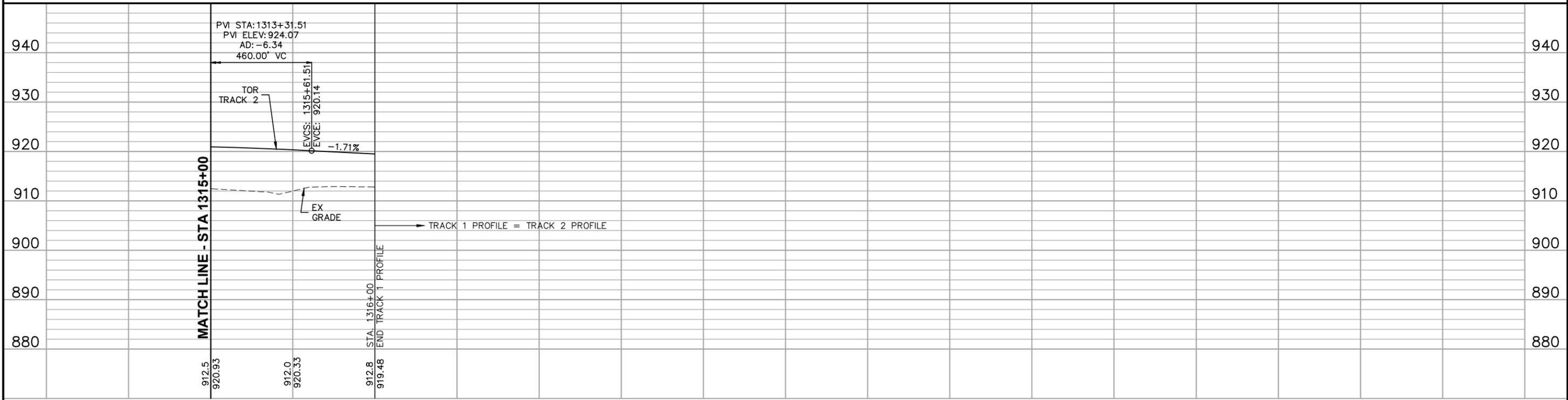
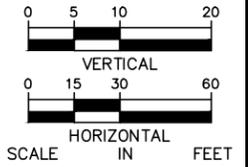
PLAN AND PROFILE

STA 2315+00 TO STA 2320+55.80

DISCIPLINE: TRACK	SHEET NAME: W2-TRK-PRF - 017
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SHEET
165
OF
189

SEE SHEET W2-TRK-PRF - 017 FOR PLAN VIEW



1315+00 1316+00

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

912.5
920.93

912.0
920.33

912.8
919.48

STA. 1316+00
END TRACK 1 PROFILE

AECOM

60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
TYPICAL SECTIONS
STA 1315+00 TO STA 1316+00

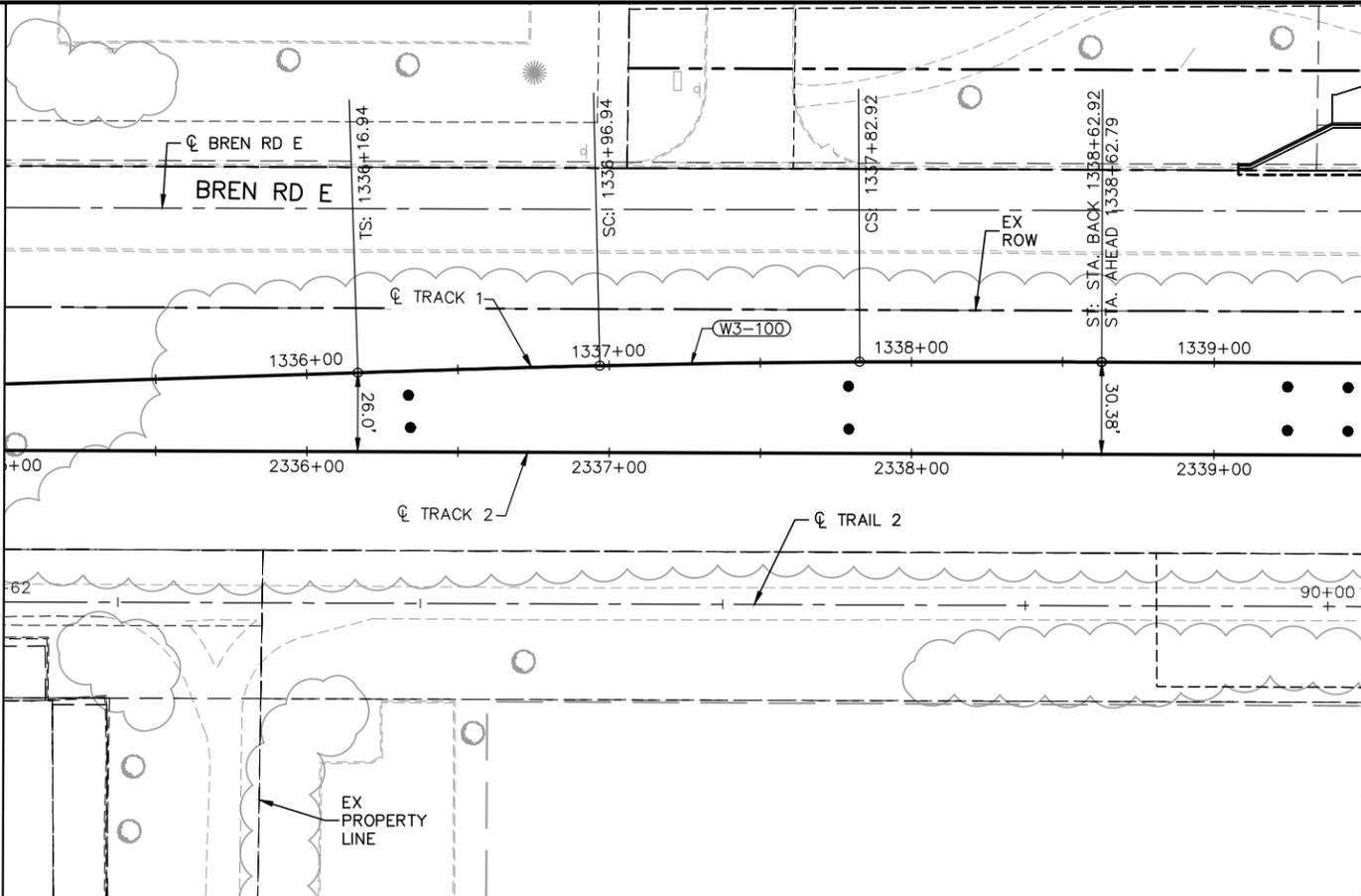
DISCIPLINE: TRACK SHEET NAME: W2-TRK-PRF - 017A

SHEET
166
OF
189

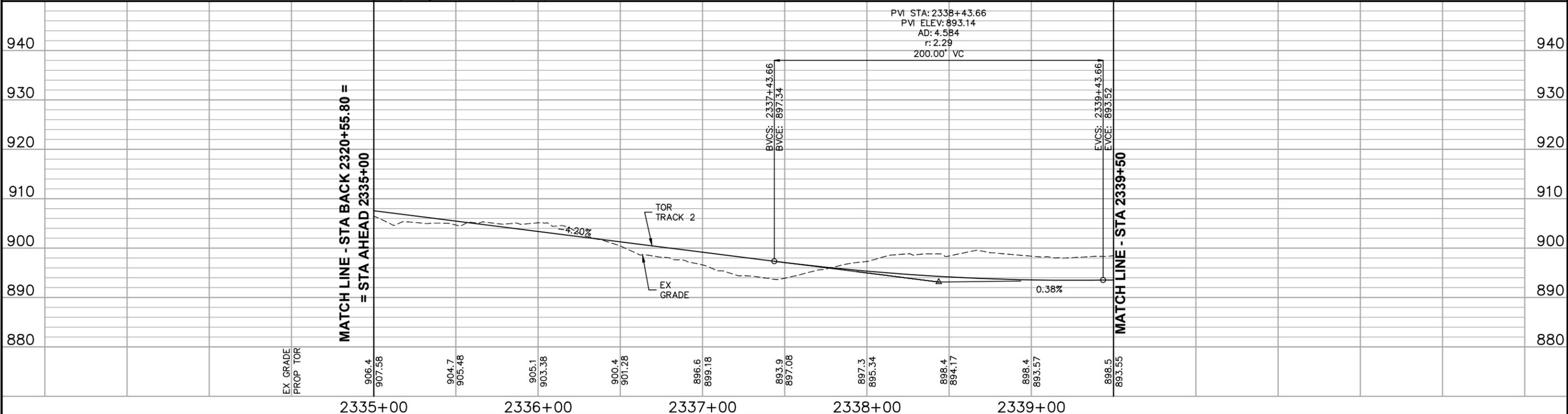
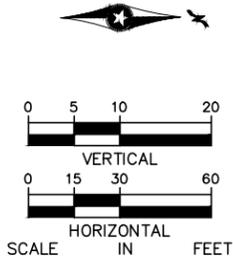
Sep. 21 2015 02:58 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-PRF.dwg By: MaurisBM

CURVE NO. W3-100
R = 4700.00'
Lc = 85.98'
Ls = 80.00'
Ea = 1.25"
Eu = 1.30"
V = 55 MPH

MATCH LINE - STA BACK 2320+55.80
STA AHEAD 2335+00



MATCH LINE - STA 2339+50



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15



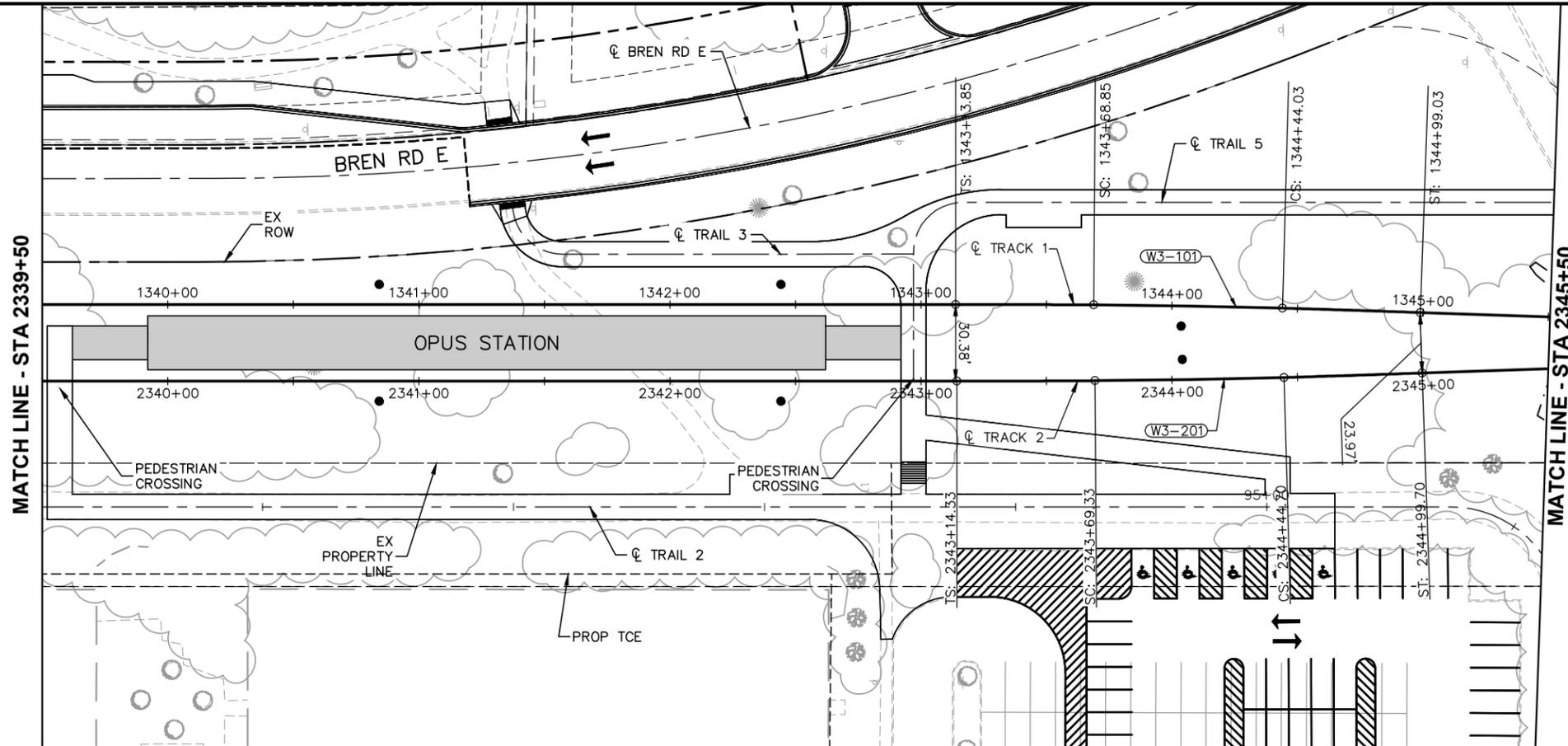


CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2335+00 TO STA 2339+50

DISCIPLINE: TRACK	SHEET NAME: W3-TRK-PRF - 001
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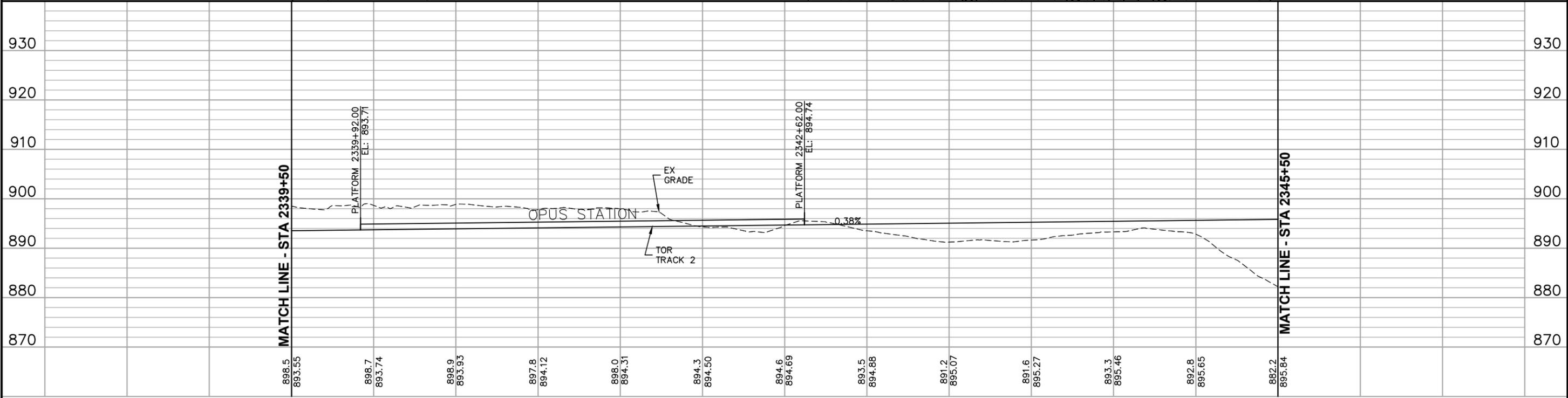
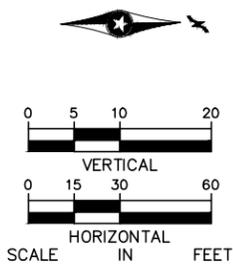
SHEET
167
OF
189

Sep. 21 2015 02:59 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-PRF.dwg By: MaurisBM



CURVE NO. W3-201
R = 3800.00'
Lc = 75.38'
Ls = 55.00'
Ea = 1.00"
Eu = 1.11"
V = 45 MPH

CURVE NO. W3-101
R = 3800.00'
Lc = 75.19'
Ls = 55.00'
Ea = 1.00"
Eu = 1.11"
V = 45 MPH



898.5 893.55	898.7 893.74	898.9 893.93	897.8 894.12	898.0 894.31	894.3 894.50	894.6 894.69	893.5 894.88	891.2 895.07	891.6 895.27	893.3 895.46	892.8 895.65	882.2 895.84
2340+00		2341+00		2342+00		2343+00		2344+00		2345+00		

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

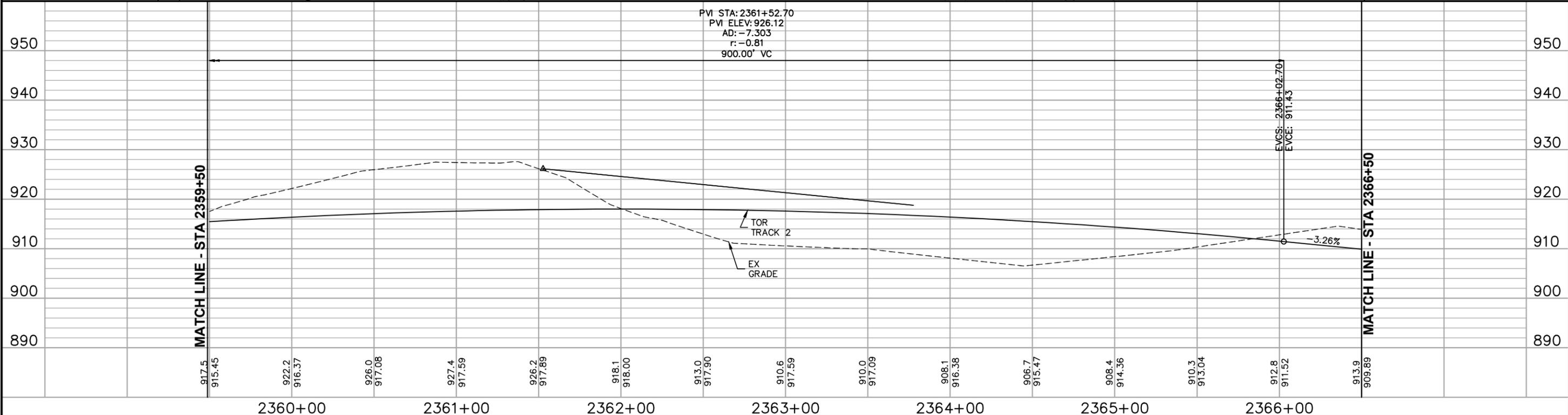
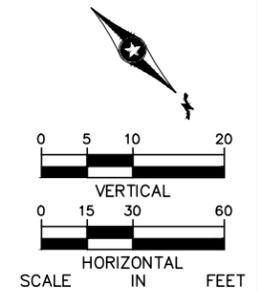
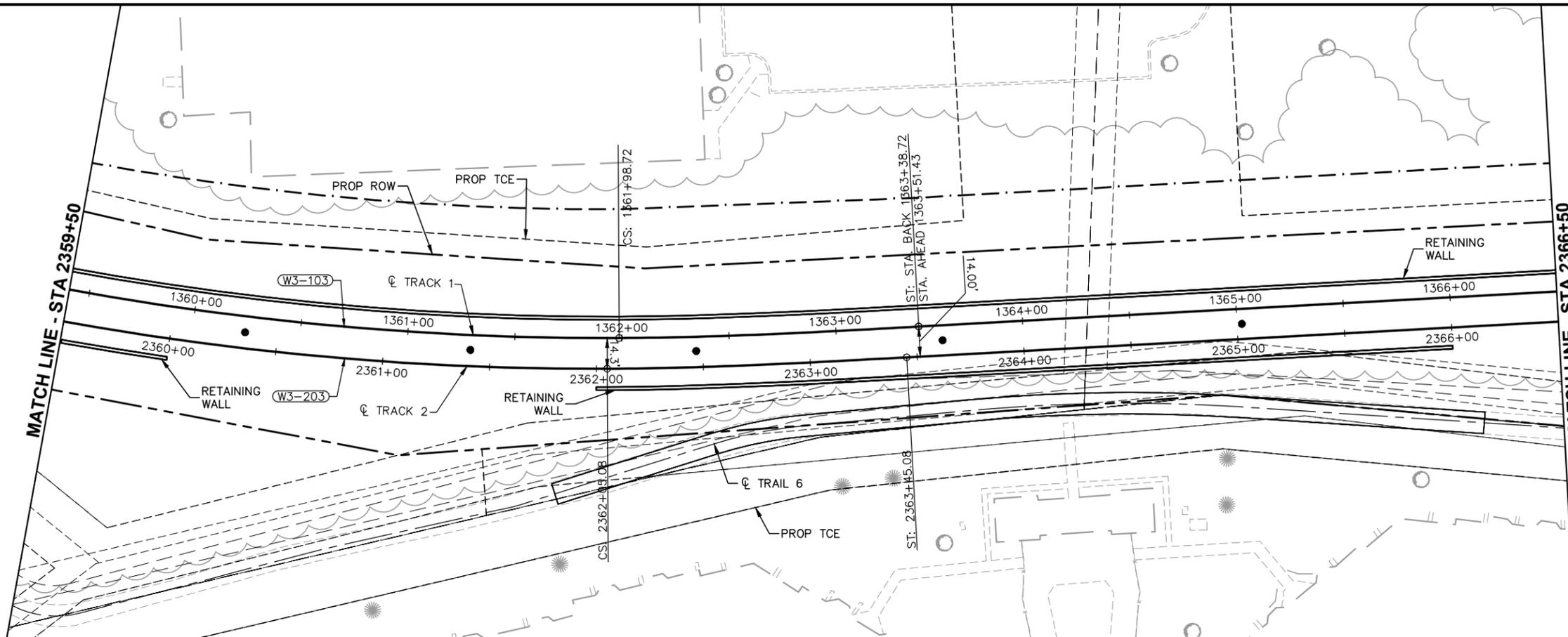


**CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2339+50 TO STA 2345+50**

DISCIPLINE: TRACK
SHEET NAME: W3-TRK-PRF - 002

**SHEET
168
OF
189**

Sep. 21 2015 03:02 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-PRF.dwg By: MaurisBM



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

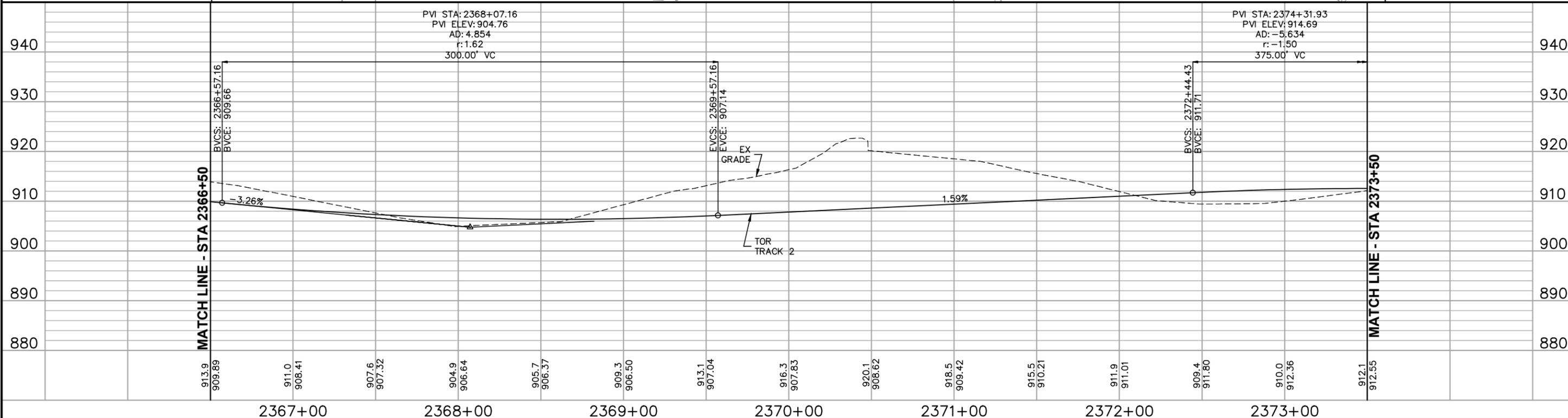
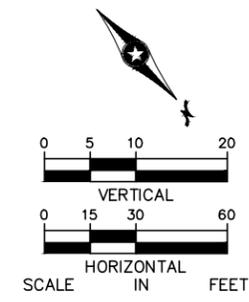
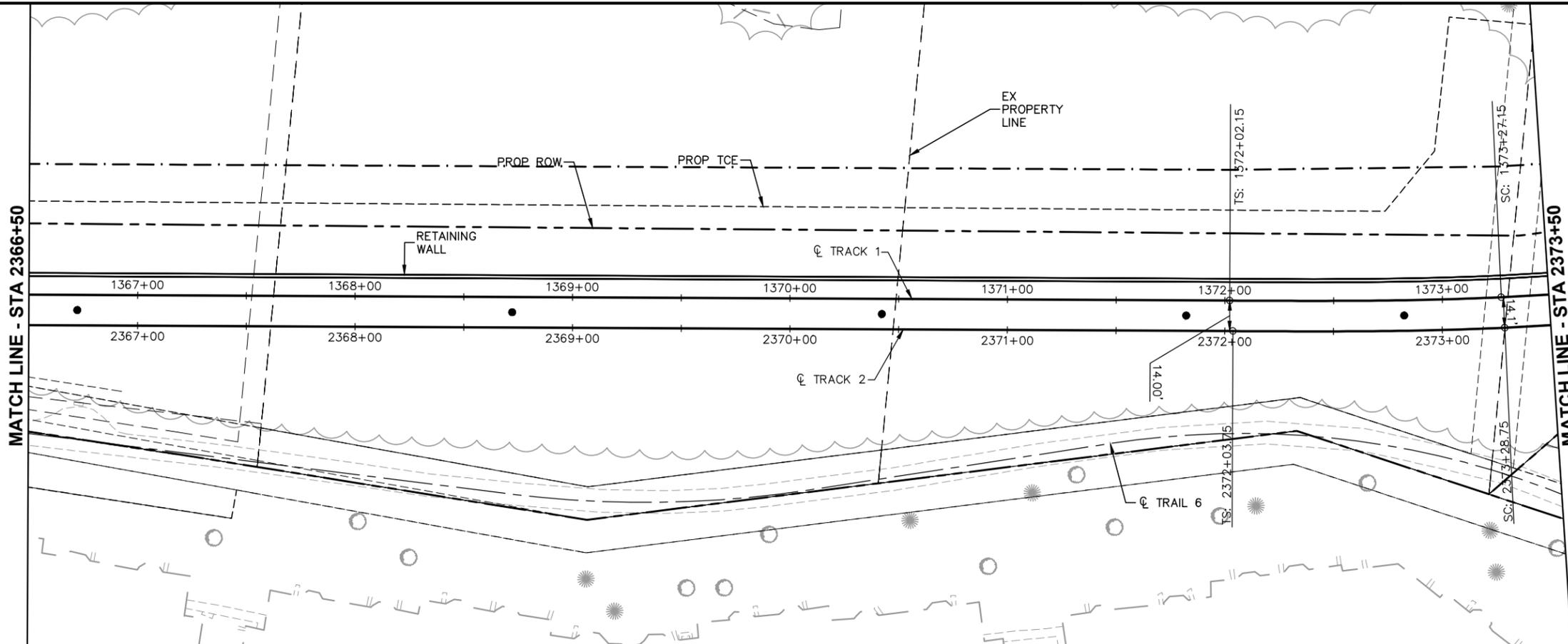


60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 3		SHEET 171 OF 189
TRACK		
PLAN AND PROFILE		
STA 2359+50 TO STA 2366+50		
DISCIPLINE: TRACK	SHEET NAME: W3-TRK-PRF - 005	

Sep. 21 2015 03:03 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-PRF.dwg By: MaurisBM



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15




CIVIL WEST - VOLUME 3

TRACK

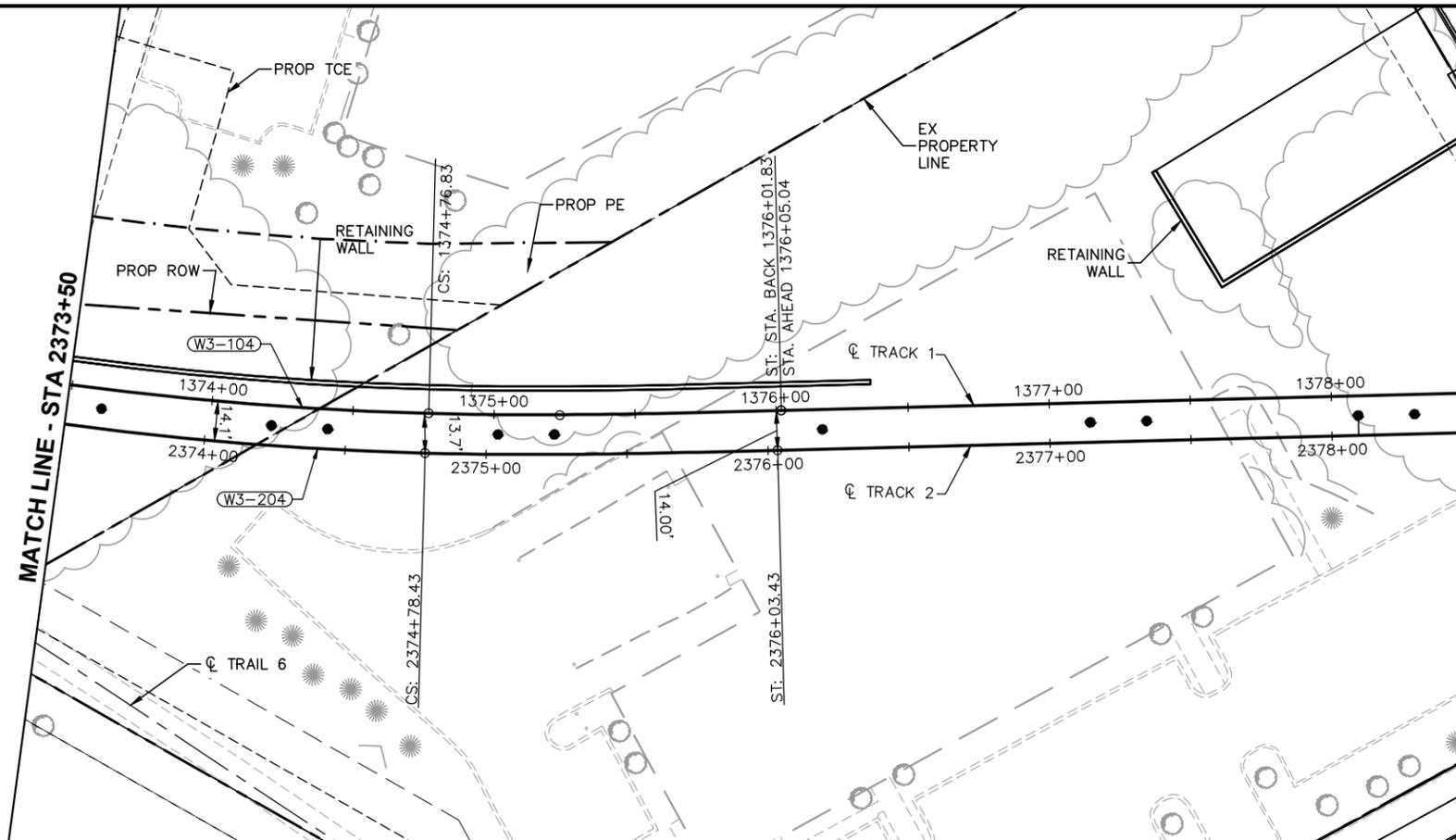
PLAN AND PROFILE

STA 2366+50 TO STA 2373+50

DISCIPLINE: TRACK	SHEET NAME: W3-TRK-PRF - 006
-----------------------------	--

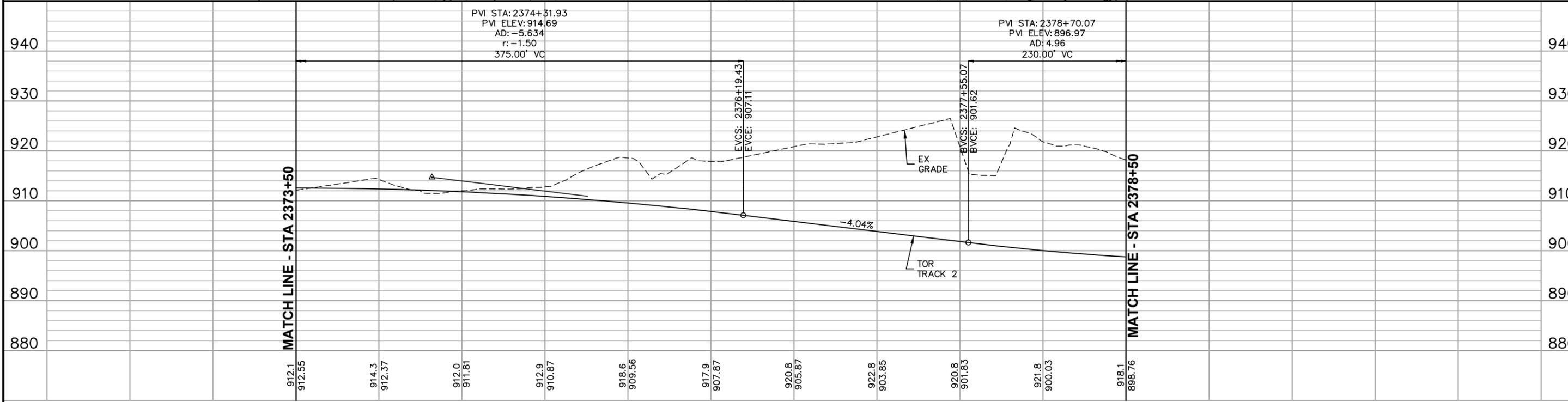
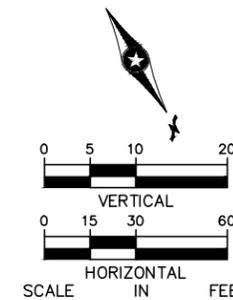
SHEET **172** OF **189**

Sep. 21 2015 03:03 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-PRF.dwg By: MaurisBM



CURVE NO. W3-204
R = 1200.00'
Lc = 149.68'
Ls = 125.00'
Ea = 3.00"
Eu = 2.28"
V = 40 MPH

CURVE NO. W3-104
R = 1200.00'
Lc = 149.68'
Ls = 125.00'
Ea = 3.00"
Eu = 2.28"
V = 40 MPH



2374+00 2375+00 2376+00 2377+00 2378+00

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 09/28/15

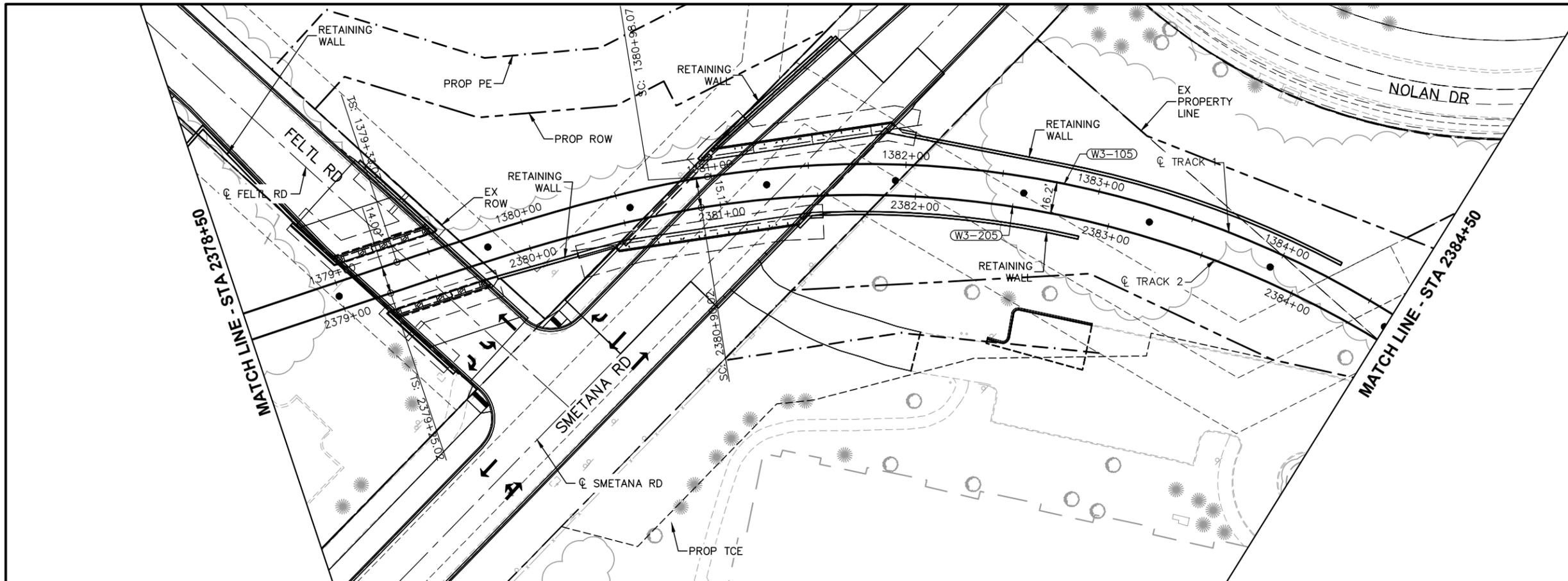



CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2373+50 TO STA 2378+50

DISCIPLINE: TRACK SHEET NAME: W3-TRK-PRF - 007

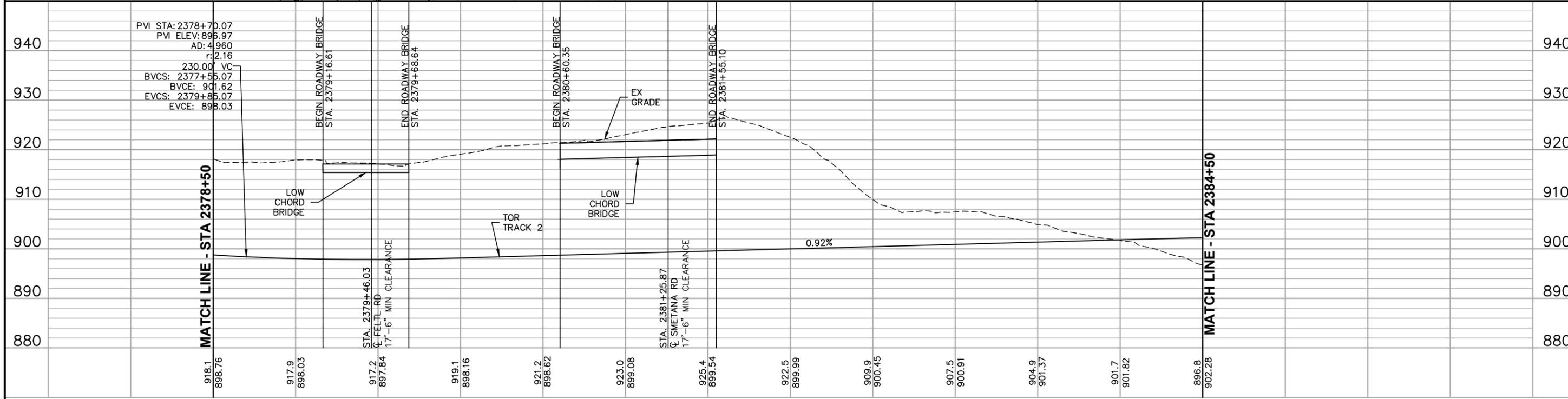
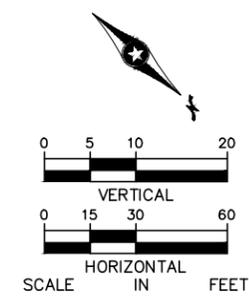
SHEET 173 OF 189

Sep. 21 2015 03:04 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-PRF.dwg By: MaurisBM



CURVE NO. W3-205
R = 510.00'
Lc = 367.35'
Ls = 165.00'
Ea = 4.00"
Eu = 2.99"
V = 30 MPH

CURVE NO. W3-105
R = 510.00'
Lc = 367.35'
Ls = 165.00'
Ea = 4.00"
Eu = 2.99"
V = 30 MPH



918.1 898.76	917.9 898.03	917.2 897.84	919.1 898.16	921.2 898.62	923.0 899.08	925.4 899.54	922.5 899.99	909.9 900.45	907.5 900.91	904.9 901.37	901.7 901.82	896.8 902.28
2379+00		2380+00		2381+00		2382+00		2383+00		2384+00		

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

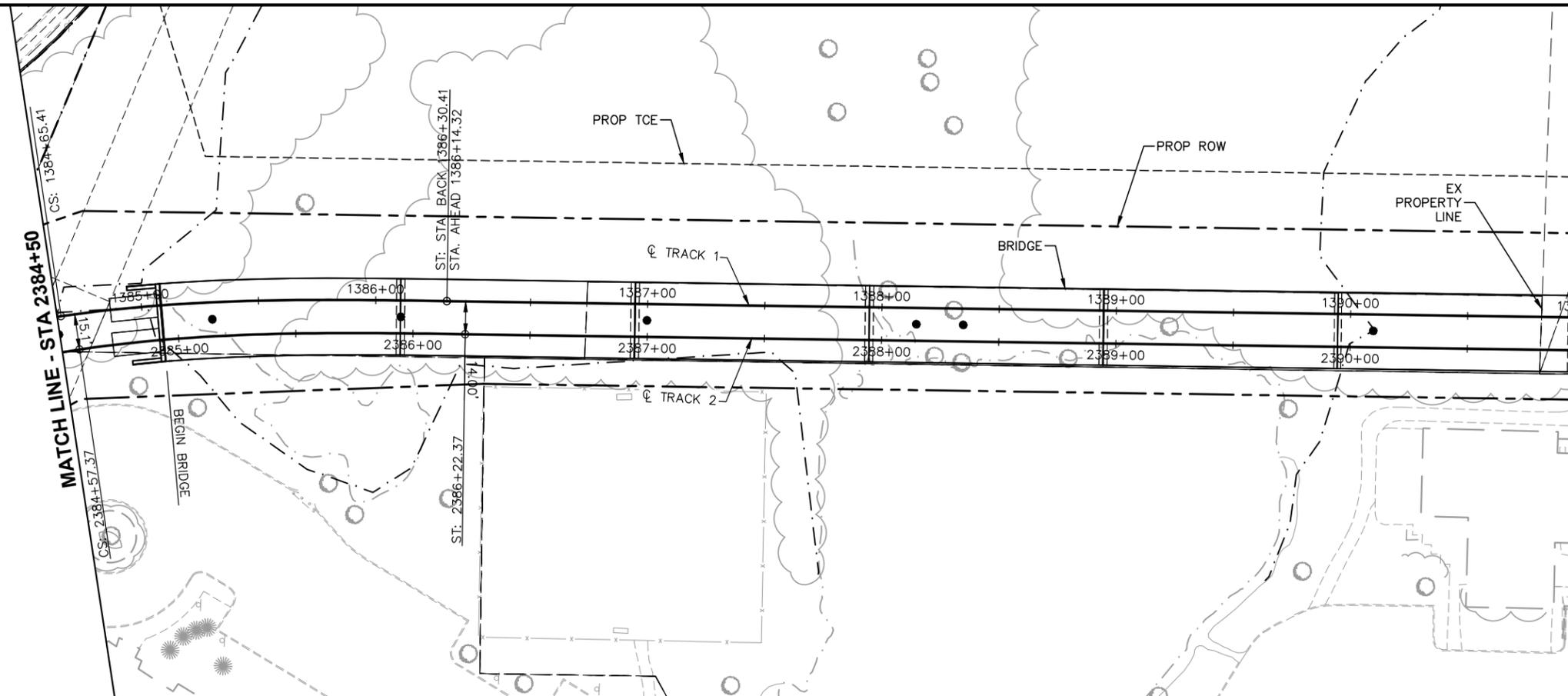
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2378+50 TO STA 2384+50

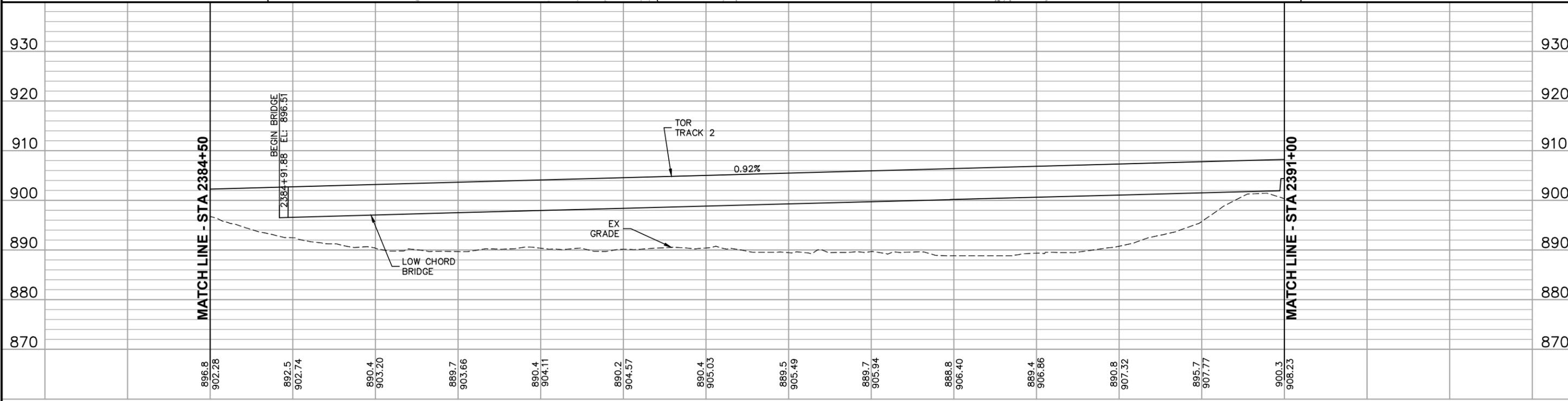
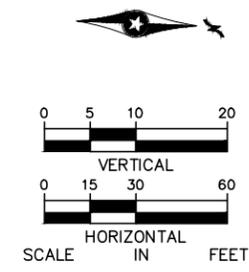
DISCIPLINE: **TRACK** SHEET NAME: **W3-TRK-PRF - 008**

SHEET
174
OF
189

Sep. 21 2015 03:05 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-PRF.dwg By: MaurisBM



MATCH LINE - STA 2391+00



MATCH LINE - STA 2384+50 2385+00 2386+00 2387+00 2388+00 2389+00 2390+00 2391+00 MATCH LINE - STA 2391+00

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

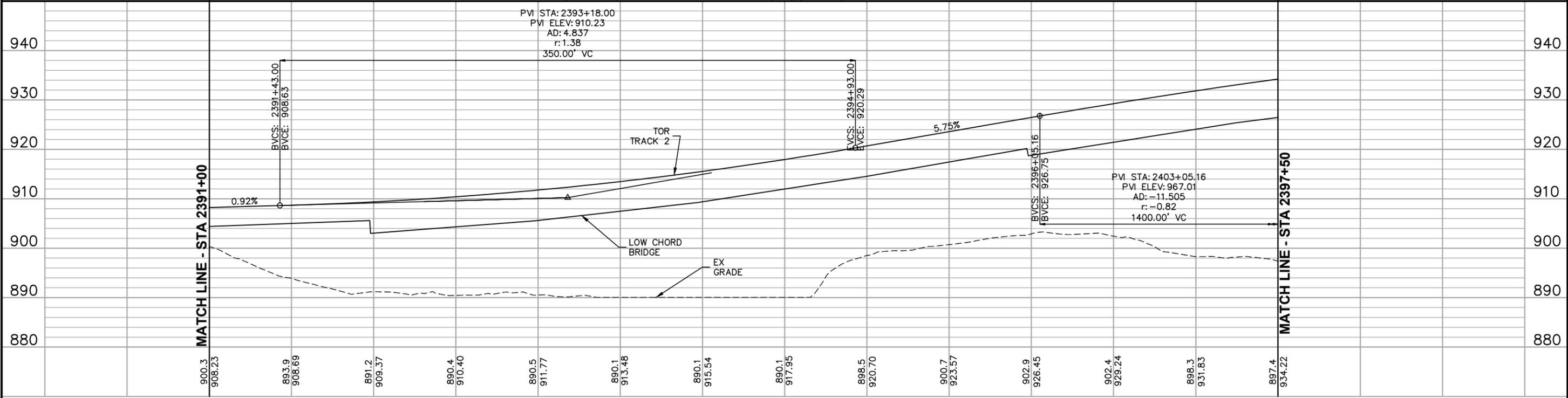
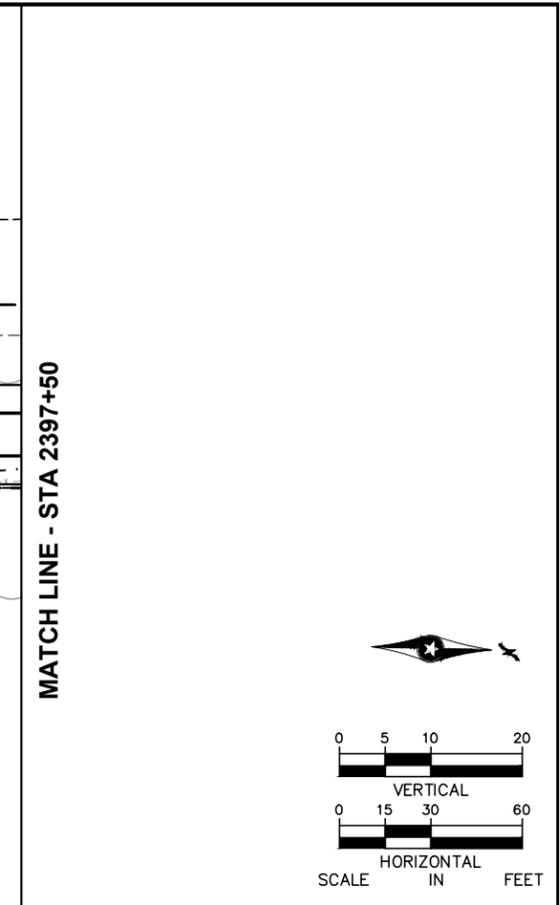
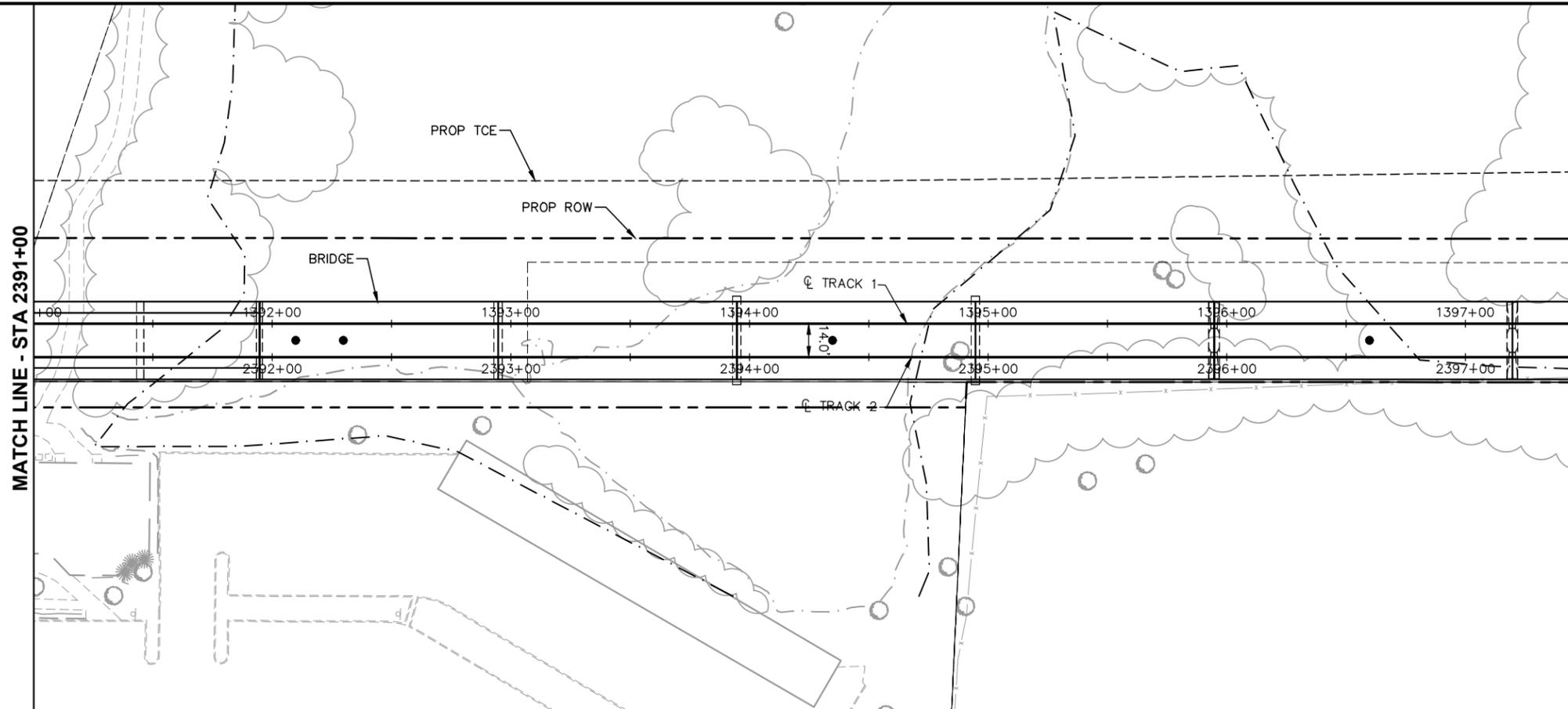


CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2384+50 TO STA 2391+00

DISCIPLINE: TRACK SHEET NAME: W3-TRK-PRF - 009

SHEET
175
OF
189

Sep. 21 2015 03:06 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-PRF.dwg By: MaurisBM



2391+00 2392+00 2393+00 2394+00 2395+00 2396+00 2397+00

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

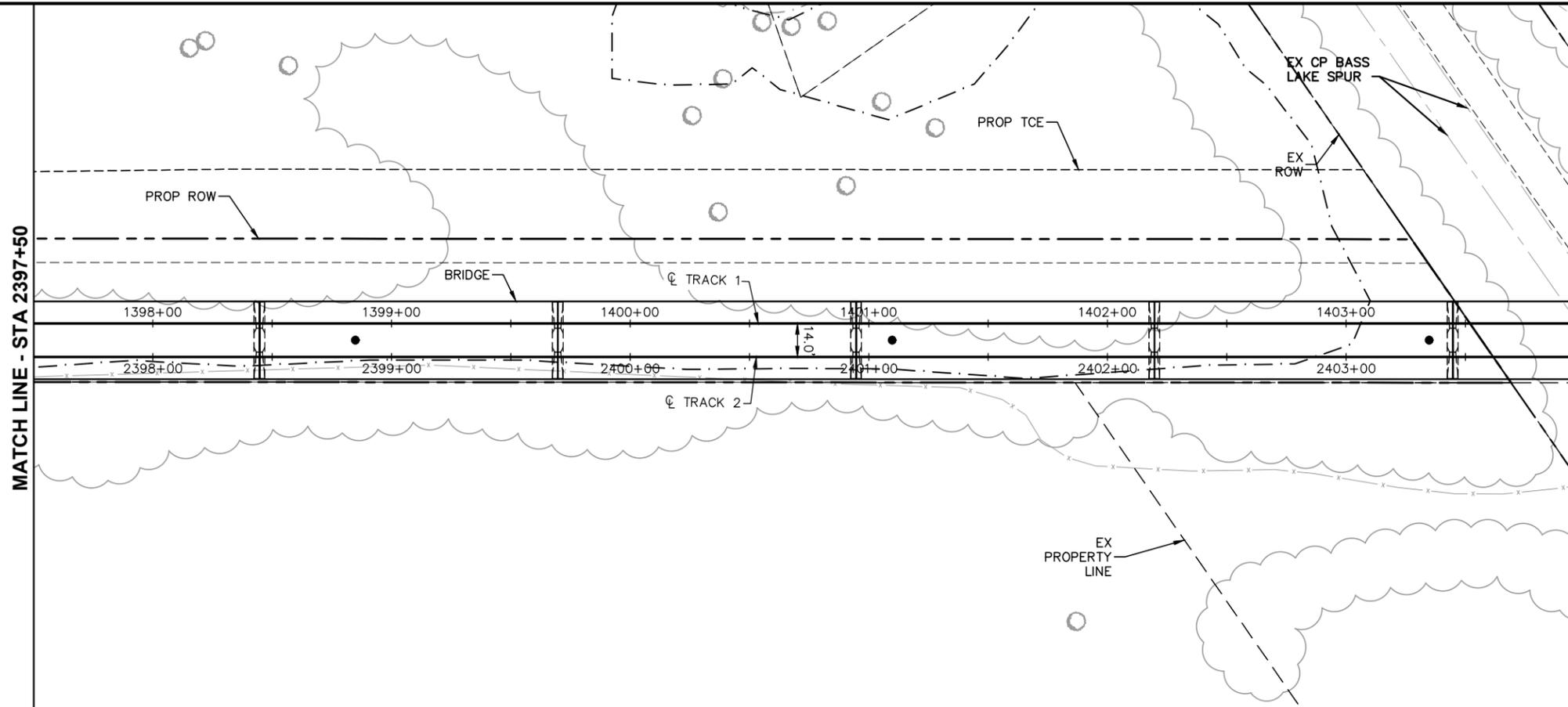


**CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2391+00 TO STA 2397+50**

DISCIPLINE: **TRACK** SHEET NAME: **W3-TRK-PRF - 010**

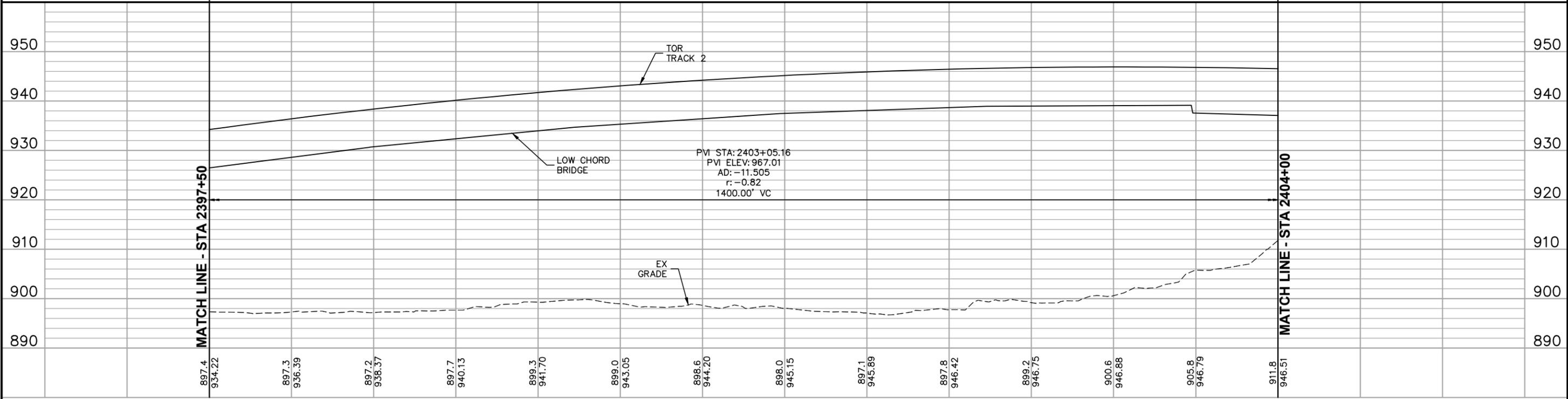
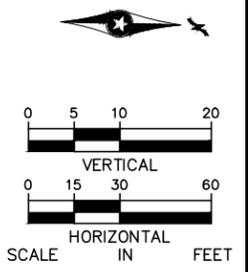
SHEET
176
OF
189

Sep. 21 2015 03:07 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-PRF.dwg By: MaurisBM



MATCH LINE - STA 2404+00

MATCH LINE - STA 2397+50



MATCH LINE - STA 2404+00

MATCH LINE - STA 2397+50

2398+00 2399+00 2400+00 2401+00 2402+00 2403+00 2404+00

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

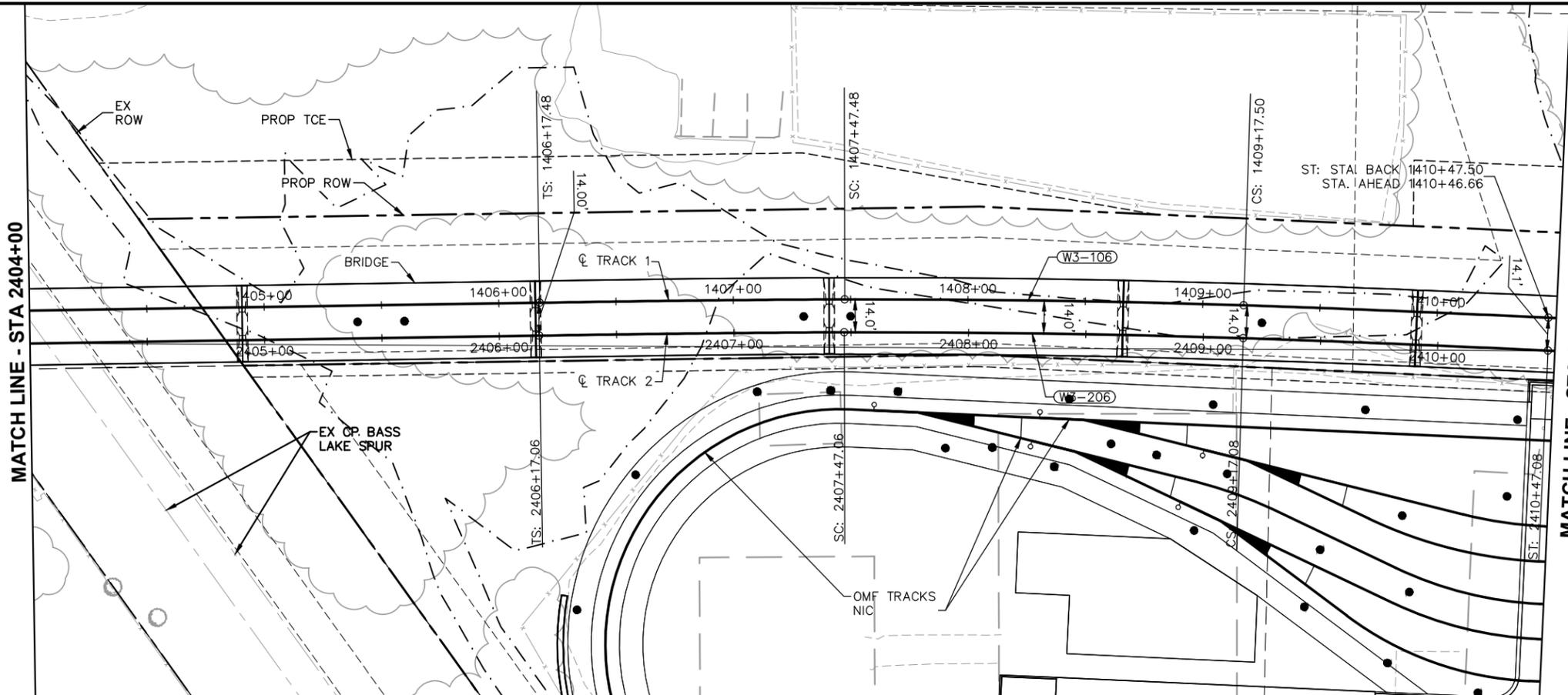


CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2397+50 TO STA 2404+00

DISCIPLINE: **TRACK** SHEET NAME: **W3-TRK-PRF - 011**

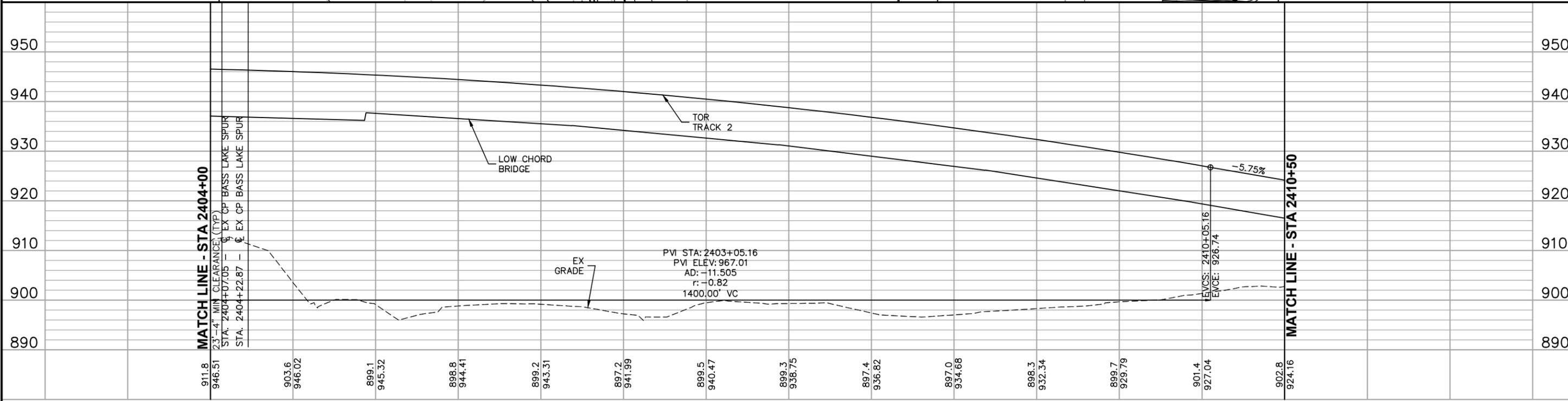
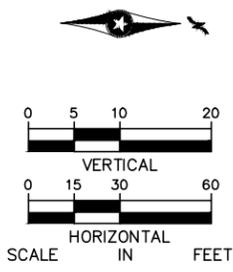
SHEET
177
OF
189

Sep. 21 2015 03:08 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-PRF.dwg By: MaurisBM



CURVE NO. W3-206
R = 5000.00'
Lc = 170.02'
Ls = 130.00'
Ea = 1.75"
Eu = 1.60"
V = 65 MPH

CURVE NO. W3-106
R = 5000.00'
Lc = 170.02'
Ls = 130.00'
Ea = 1.75"
Eu = 1.60"
V = 65 MPH



911.8	903.6	899.1	898.8	899.2	897.2	899.5	899.3	897.4	897.0	898.3	899.7	901.4	902.8
2404+00	2405+00	2406+00	2407+00	2408+00	2409+00	2410+00							

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

23'-4" MIN CLEARANCE (TYP)
 STA. 2404+07.05 - EX CP BASS LAKE SPUR
 STA. 2404+22.87 - EX CP BASS LAKE SPUR

AECOM

60% SUBMISSION - 09/28/15

METROPOLITAN COUNCIL

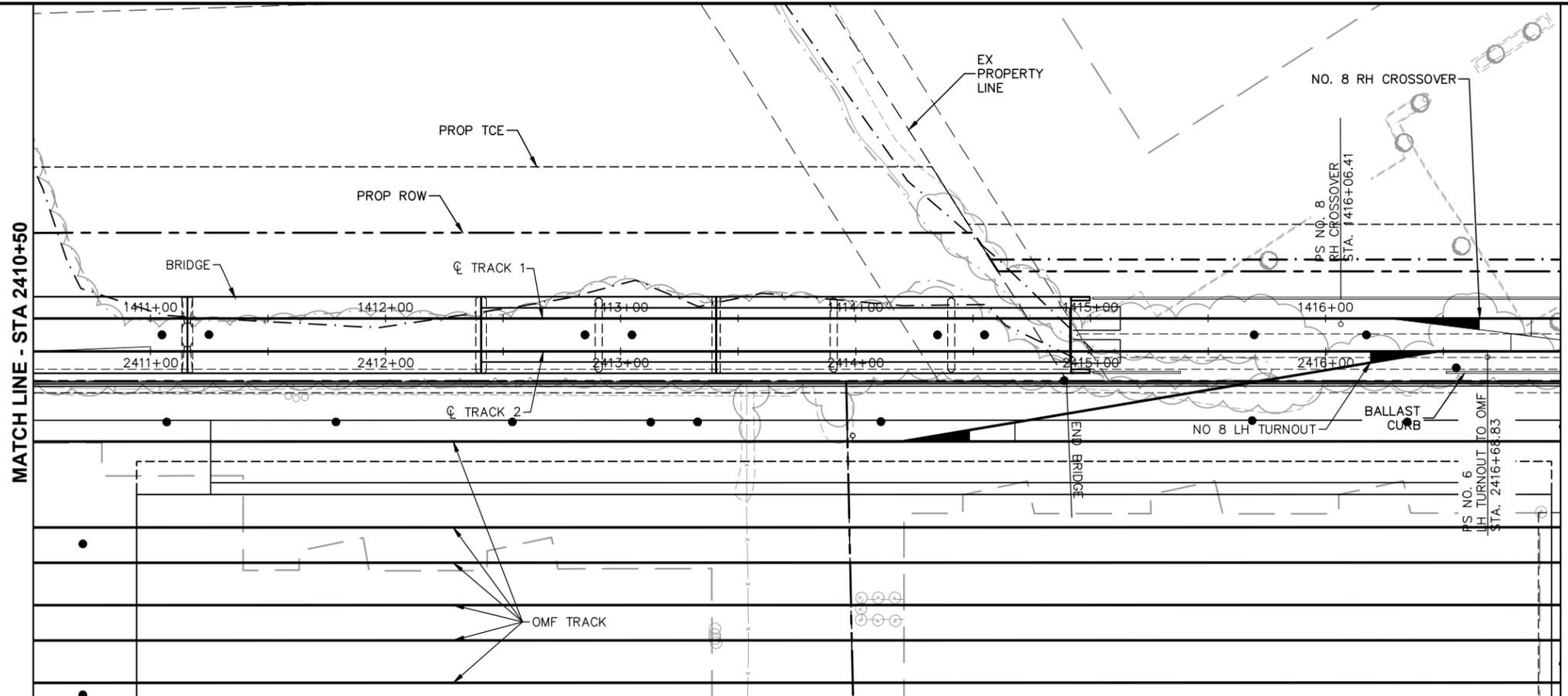
SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2404+00 TO STA 2410+50

DISCIPLINE: TRACK SHEET NAME: W3-TRK-PRF - 012

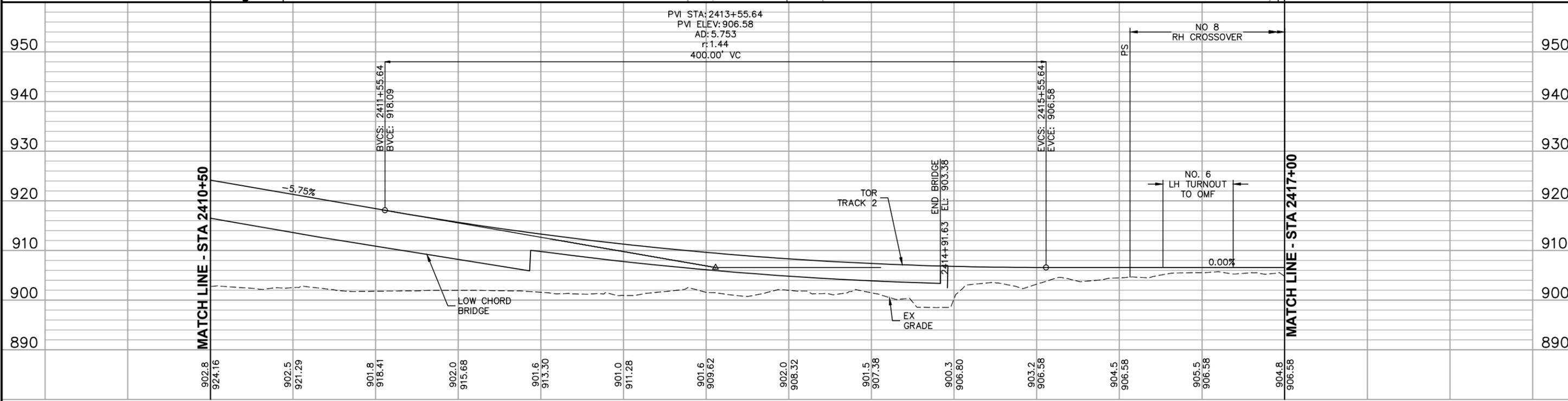
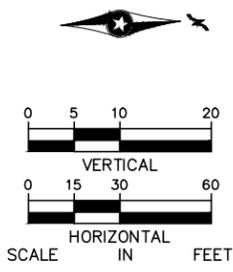
SHEET 178 OF 189

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MATCH LINE - STA 2417+00

MATCH LINE - STA 2410+50

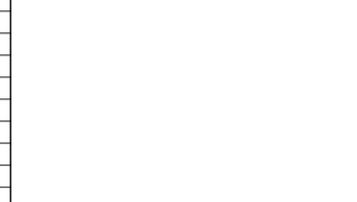


MATCH LINE - STA 2410+50

MATCH LINE - STA 2417+00

2411+00 2412+00 2413+00 2414+00 2415+00 2416+00 2417+00

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

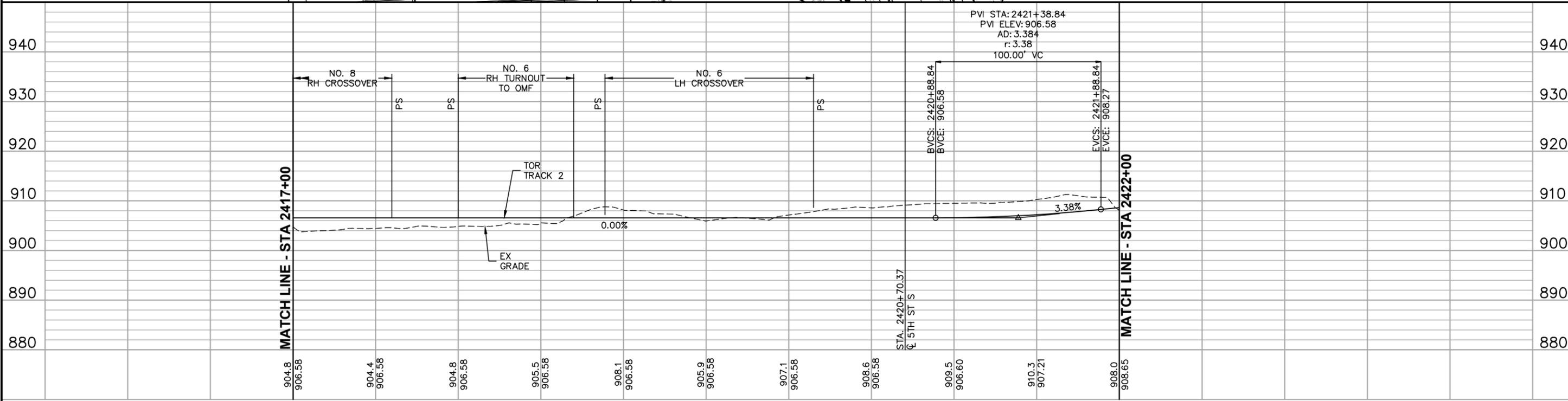
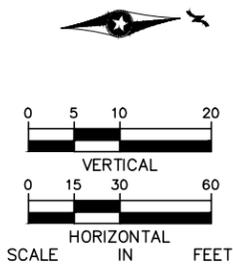
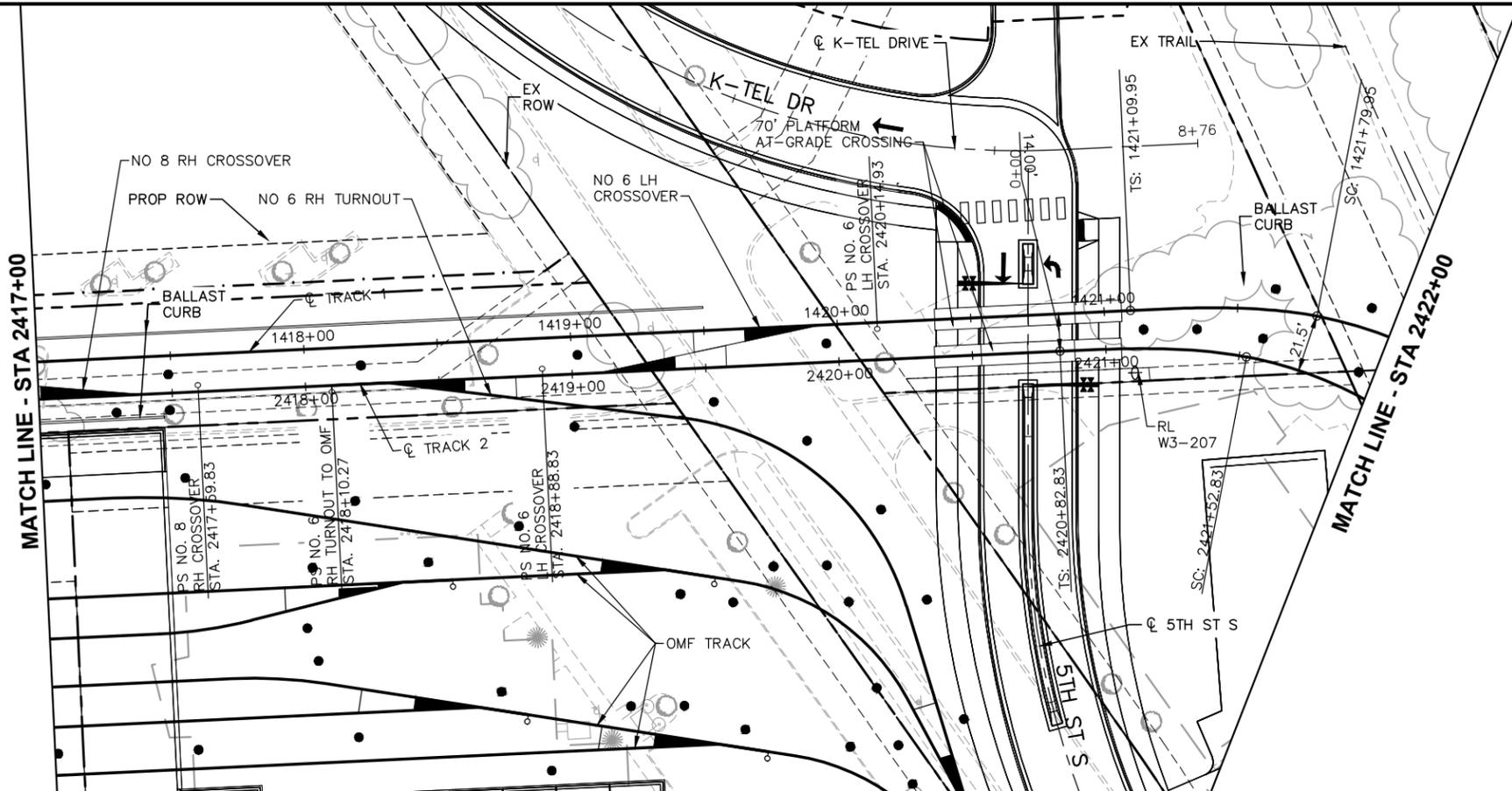


60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 3		SHEET 179 OF 189
TRACK		
PLAN AND PROFILE		
STA 2410+50 TO STA 2417+00		189
DISCIPLINE: TRACK	SHEET NAME: W3-TRK-PRF - 013	

Sep. 21 2015 03:09 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-PRF.dwg By: MaurisBM



2417+00 2418+00 2419+00 2420+00 2421+00 2422+00

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15



**CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2417+00 TO STA 2422+00**

DISCIPLINE: TRACK SHEET NAME: W3-TRK-PRF - 014

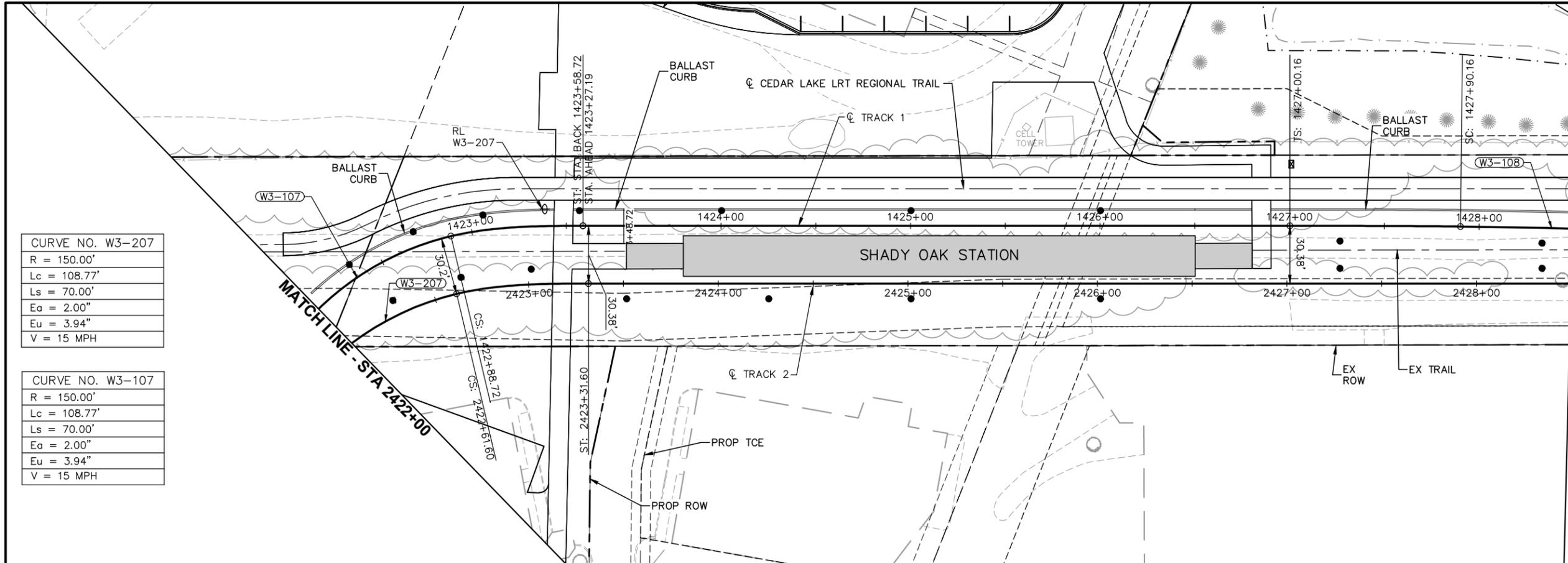
SHEET
180
OF
189

Sep. 21 2015 03:10 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-PRF.dwg By: MourisEM

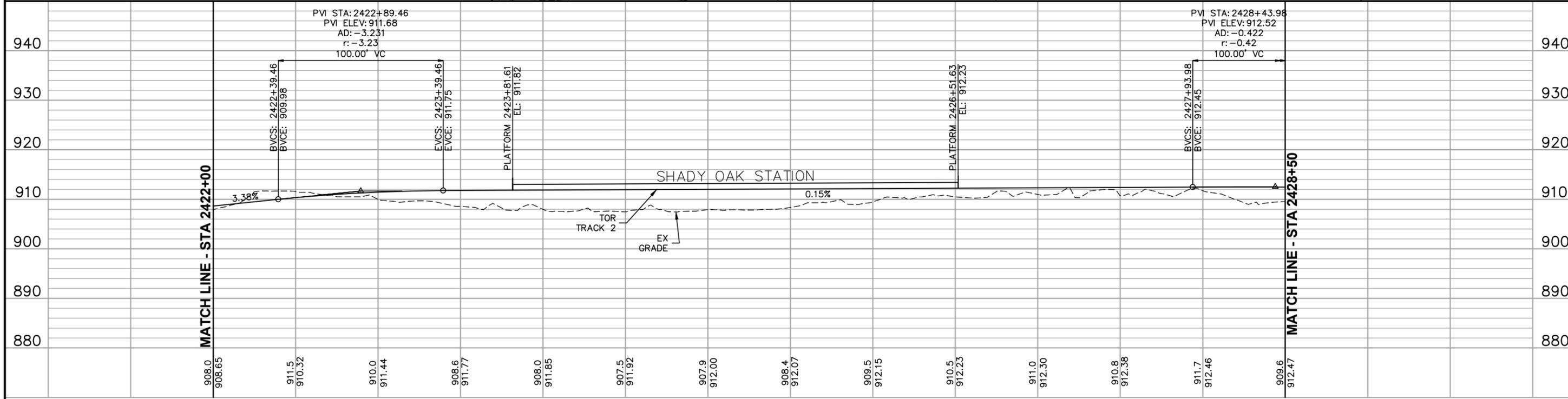
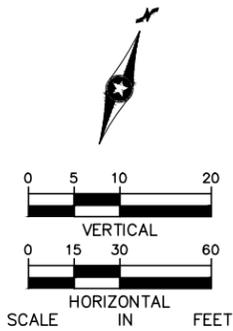
CURVE NO. W3-108
R = 4100.00'
Lc = 90.99'
Ls = 90.00'
Ea = 1.50"
Eu = 1.42"
V = 55 MPH

CURVE NO. W3-207
R = 150.00'
Lc = 108.77'
Ls = 70.00'
Ea = 2.00"
Eu = 3.94"
V = 15 MPH

CURVE NO. W3-107
R = 150.00'
Lc = 108.77'
Ls = 70.00'
Ea = 2.00"
Eu = 3.94"
V = 15 MPH



MATCH LINE - STA 2428+50



2422+00	2423+00	2424+00	2425+00	2426+00	2427+00	2428+00
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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

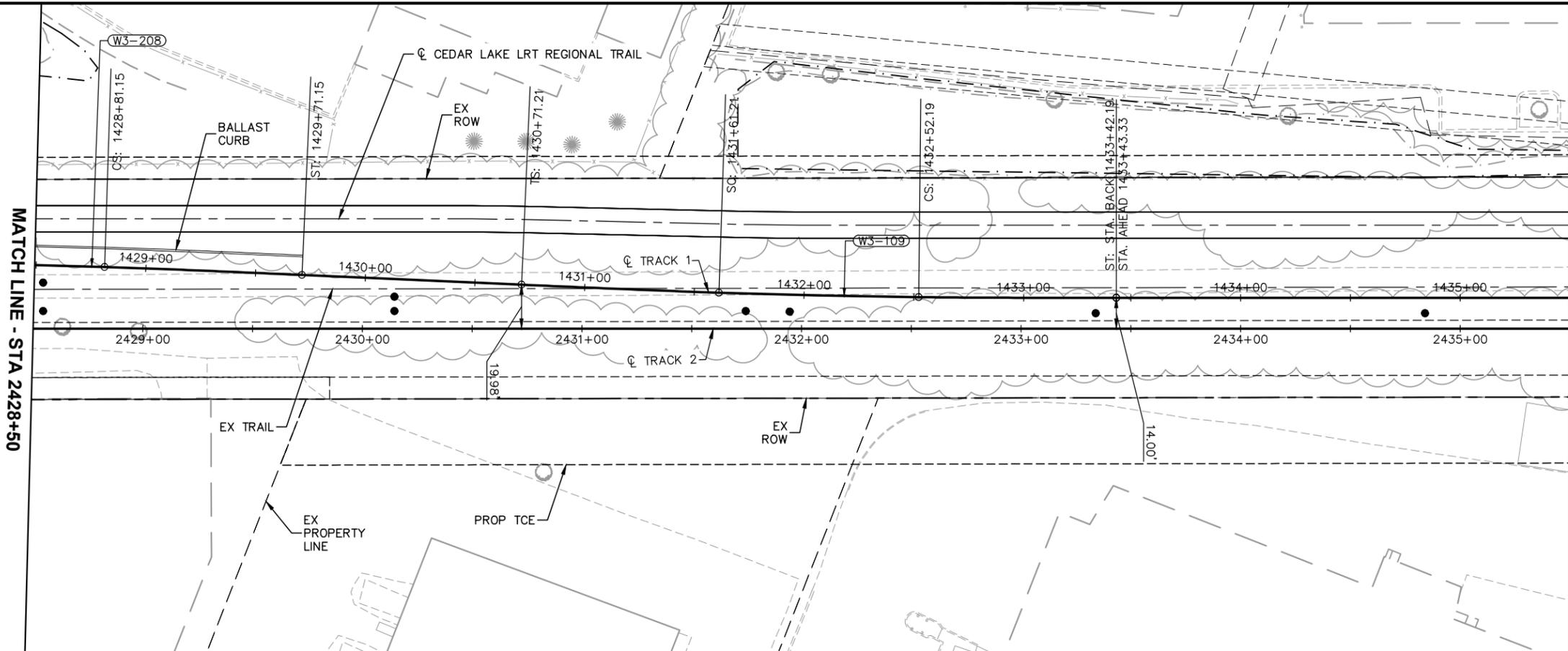


60% SUBMISSION - 09/28/15

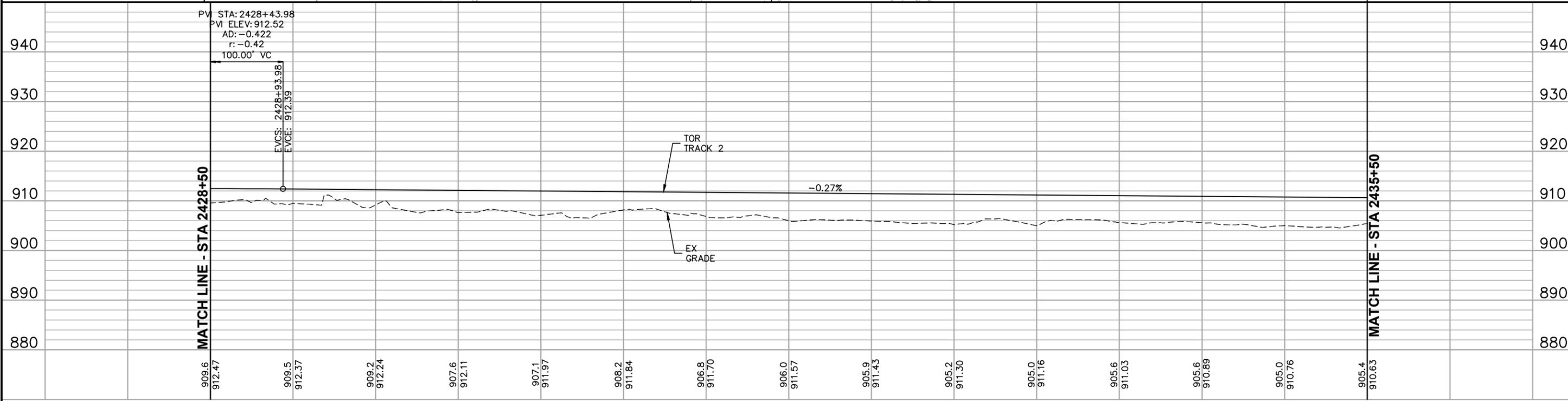
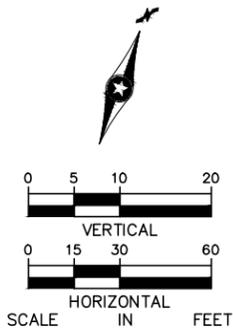


CIVIL WEST - VOLUME 3		SHEET 181 OF 189
TRACK		
PLAN AND PROFILE STA 2422+00 TO STA 2428+50		
DISCIPLINE:	TRACK	SHEET NAME:
		W3-TRK-PRF - 015

Sep. 21 2015 03:11 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-PRF.dwg By: MaurisBM



CURVE NO. W3-109
R = 4100.00'
Lc = 90.99'
Ls = 90.00'
Ea = 1.50"
Eu = 1.42"
V = 55 MPH



909.6 912.47	909.5 912.37	909.2 912.24	907.6 912.11	907.1 911.97	908.2 911.84	906.8 911.70	906.0 911.57	905.9 911.43	905.2 911.30	905.0 911.16	905.6 911.03	905.6 910.89	905.0 910.76	905.4 910.63
2429+00		2430+00		2431+00		2432+00		2433+00		2434+00		2435+00		

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15



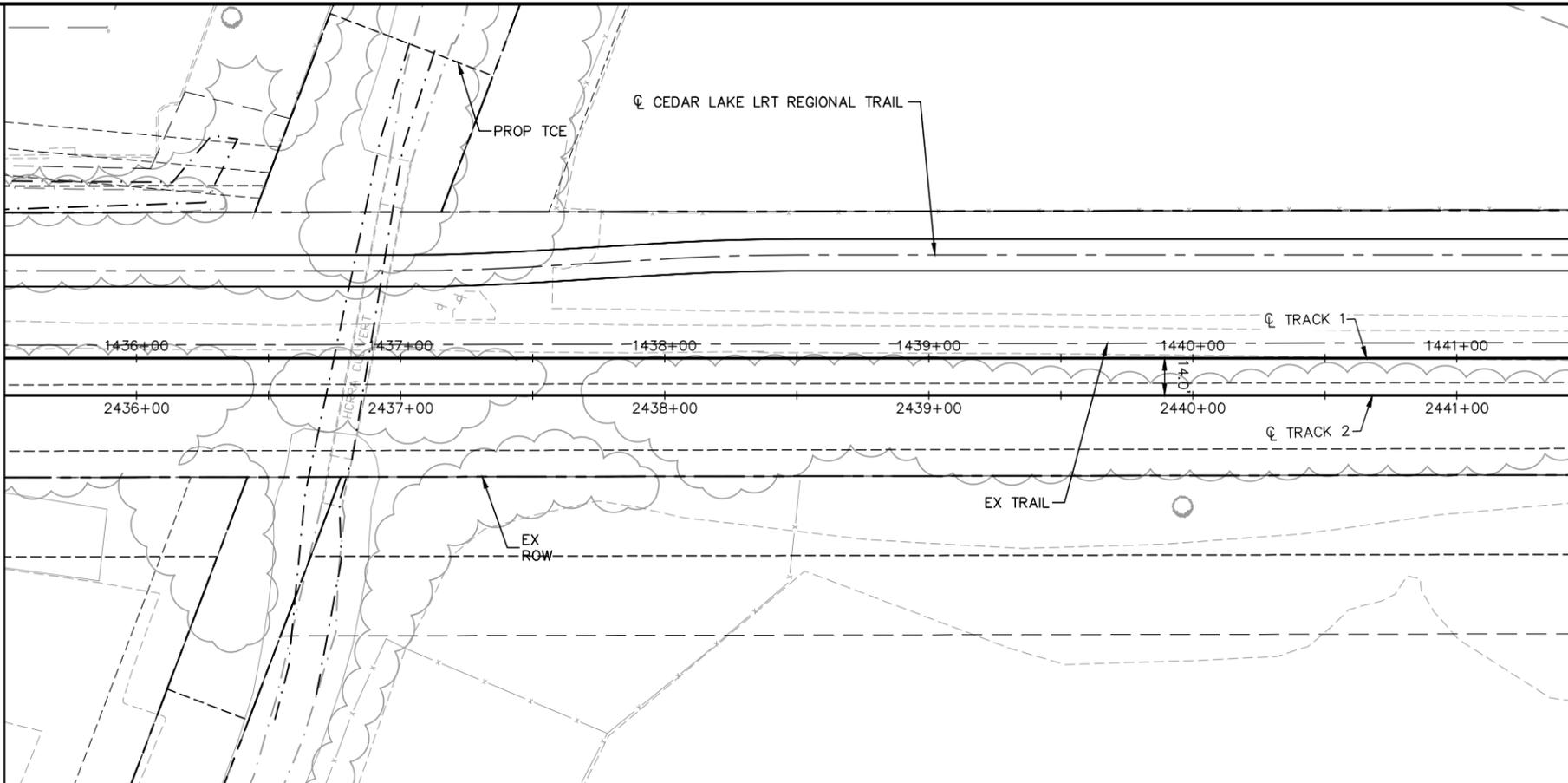
CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2428+50 TO STA 2435+50

DISCIPLINE: TRACK SHEET NAME: W3-TRK-PRF - 016

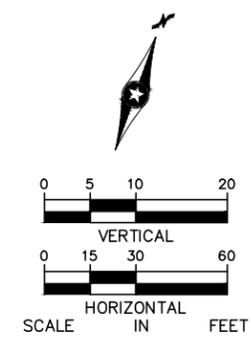
SHEET 182 OF 189

Sep. 21 2015 03:12 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\W3-TRK-PRF.dwg By: MourisBM

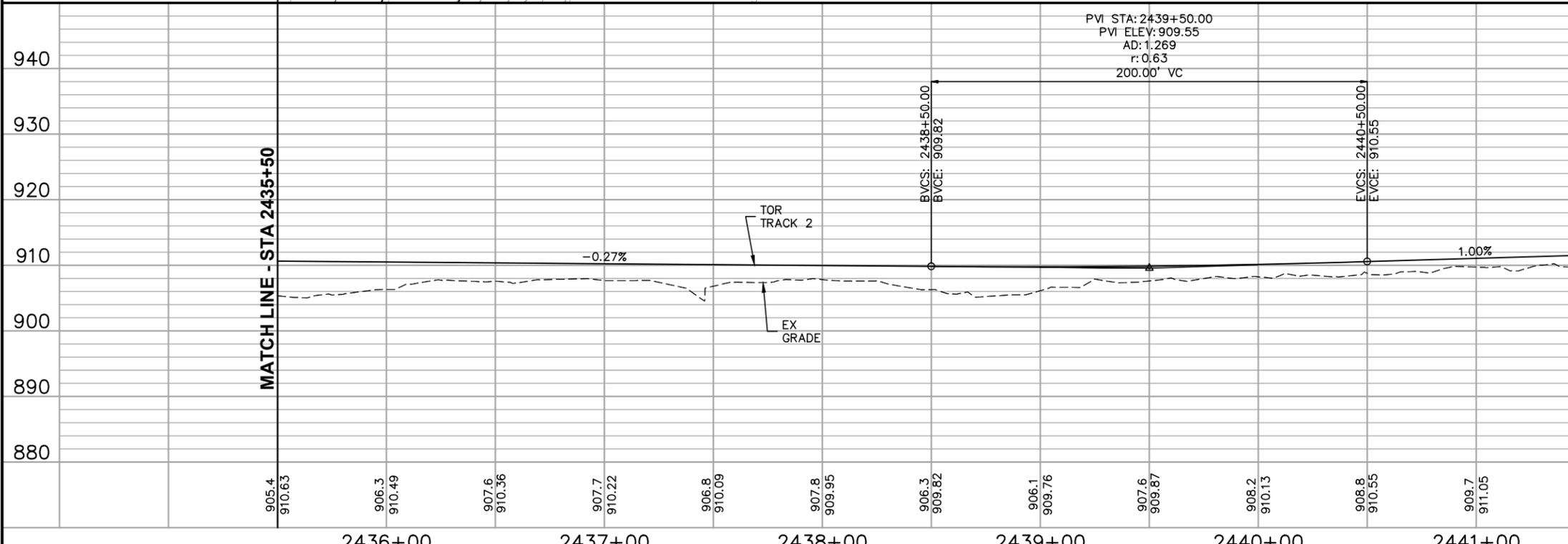
MATCH LINE - STA 2435+50



END CIVIL WEST - STA BACK 2441+49.22
BEGIN CIVIL WEST - STA AHEAD 2496+00.21



MATCH LINE - STA 2435+50



END CIVIL WEST - STA 2441+49.22

END CIVIL WEST - STA 2441+49.22

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

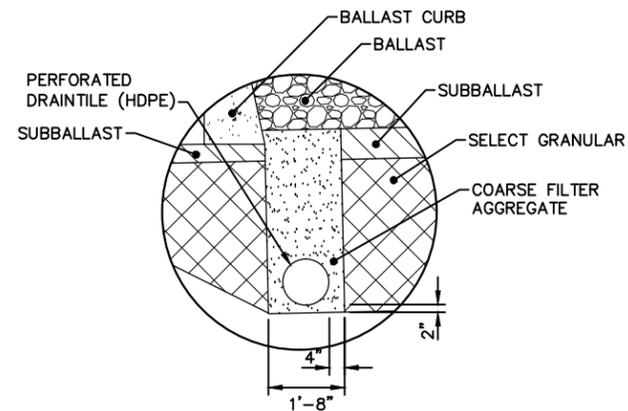
AECOM

60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 3
TRACK
PLAN AND PROFILE
STA 2435+50 TO STA 2441+49.22

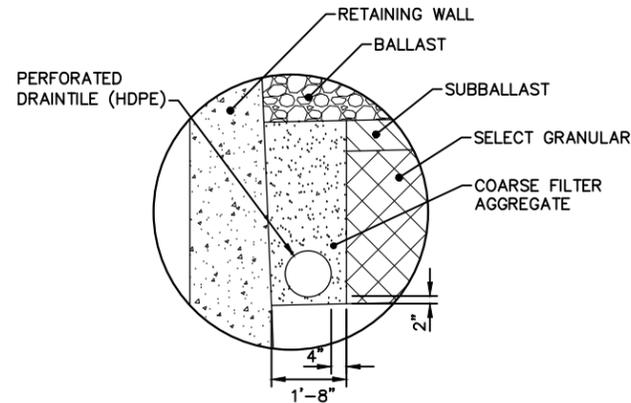
DISCIPLINE: TRACK SHEET NAME: W3-TRK-PRF - 017

SHEET
183
OF
189



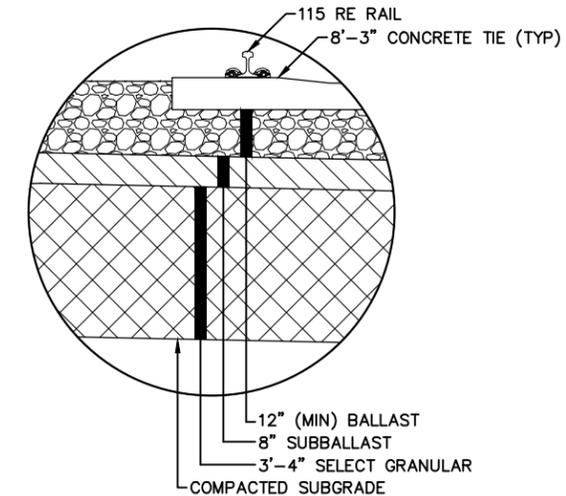
INSET A – BALLAST CURB INTERFACE

NOTE: LEFT SIDE DRAINAGE TRENCH ILLUSTRATED. FOR RIGHT SIDE, MIRROR SECTION.

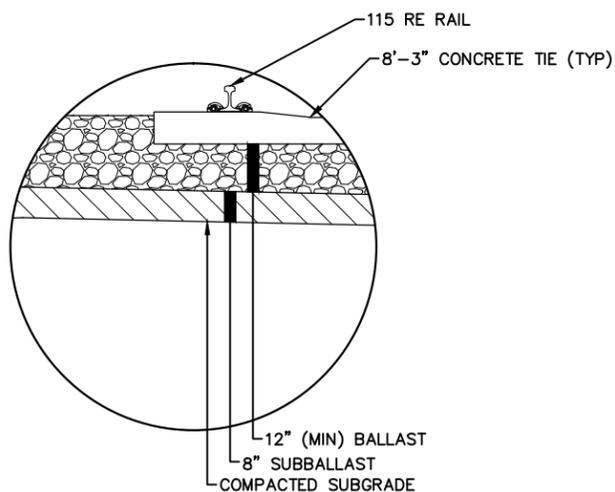


INSET B – CIP RETAINING WALL INTERFACE

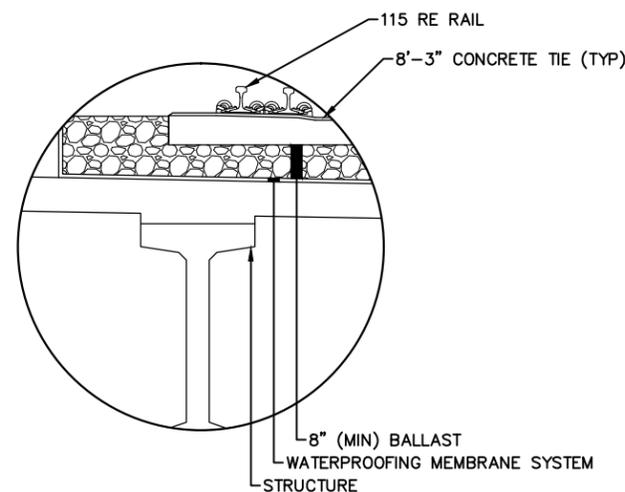
NOTE: LEFT SIDE DRAINAGE TRENCH ILLUSTRATED. FOR RIGHT SIDE, MIRROR SECTION.



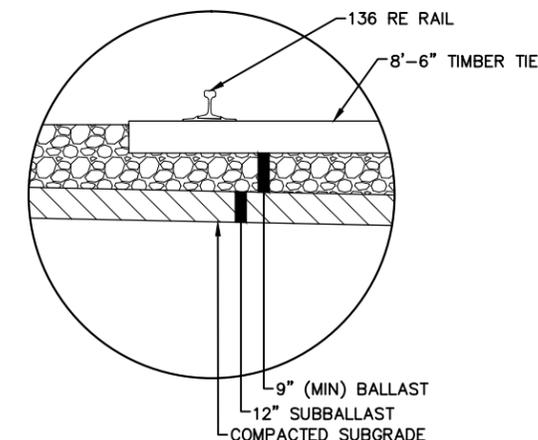
INSET C – TYPICAL BALLASTED LRT TRACK



INSET D – TYPICAL BALLASTED LRT TRACK ON EXISTING SUBGRADE



INSET E – BALLASTED LRT TRACK ON STRUCTURE



INSET F – TYPICAL BALLASTED FREIGHT TRACK – A

Sep. 21 2015 03:13 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\TRACK\WO-TRK-INS.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



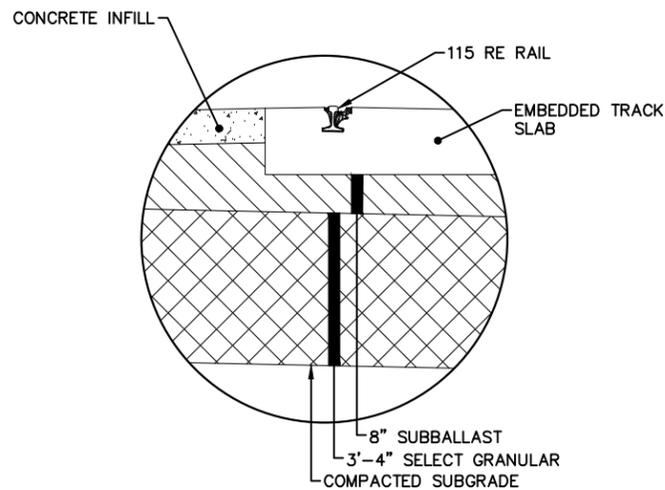
60% SUBMISSION - 09/28/15



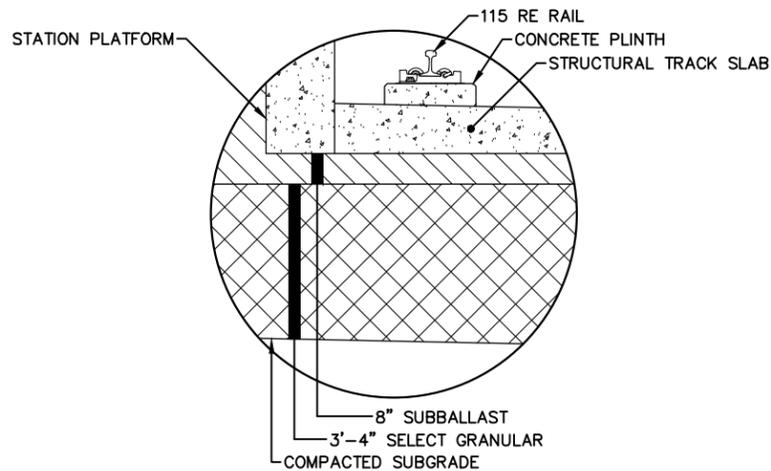
**CIVIL WEST - VOLUME 3
TRACK DETAILS
TYPICAL SECTIONS INSETS**

DISCIPLINE: TRACK SHEET NAME: W0-TRK-DTL-001

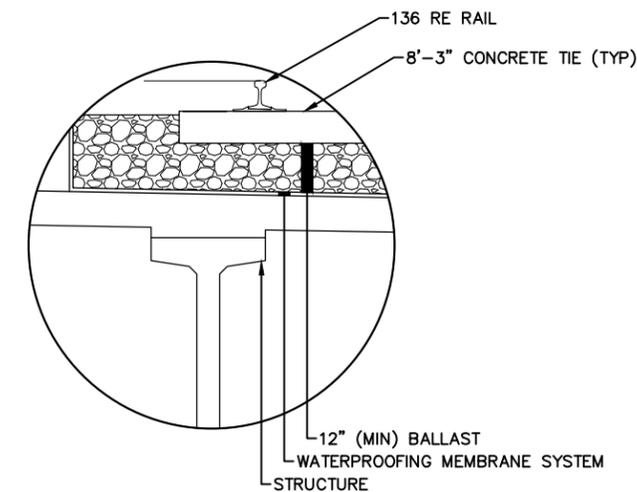
**SHEET
184
OF
189**



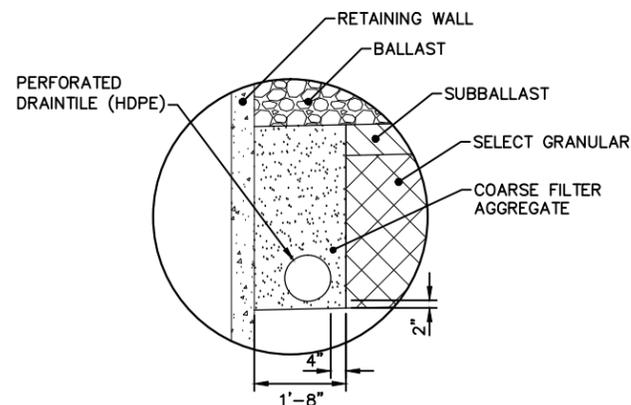
INSET G – TYPICAL EMBEDDED TRACK



INSET H – TYPICAL DIRECT FIXATION INTERFACE AT STATION PLATFORM

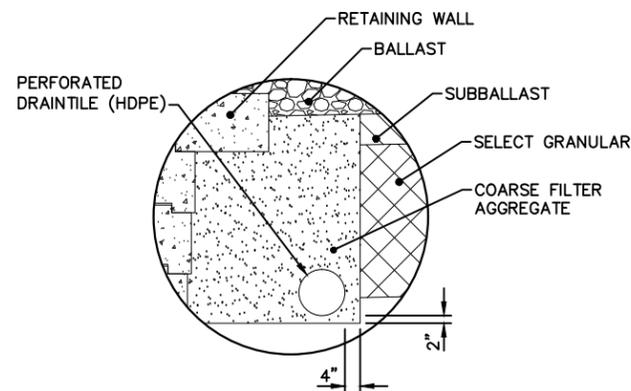


INSET I – BALLASTED FREIGHT TRACK ON STRUCTURE



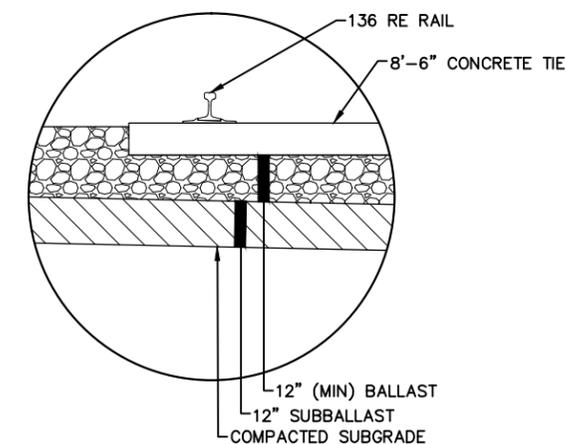
INSET J – MSE RETAINING WALL INTERFACE

NOTE: LEFT SIDE DRAINAGE TRENCH ILLUSTRATED. FOR RIGHT SIDE, MIRROR SECTION.



INSET K – PMBW RETAINING WALL INTERFACE

NOTE: LEFT SIDE DRAINAGE TRENCH ILLUSTRATED. FOR RIGHT SIDE, MIRROR SECTION.



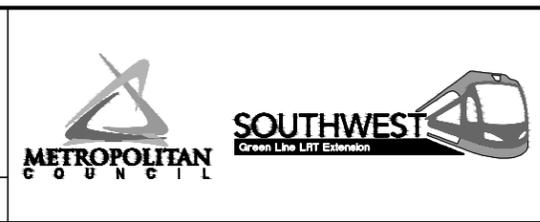
INSET L – TYPICAL BALLASTED FREIGHT TRACK – B

Sep. 21 2015 03:13 am V:\3400_ADC\CAD\CAD_00_WEST\PLANSHEETS\TRACK\W0-TRK-INS.dwg By: MaurisBM

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

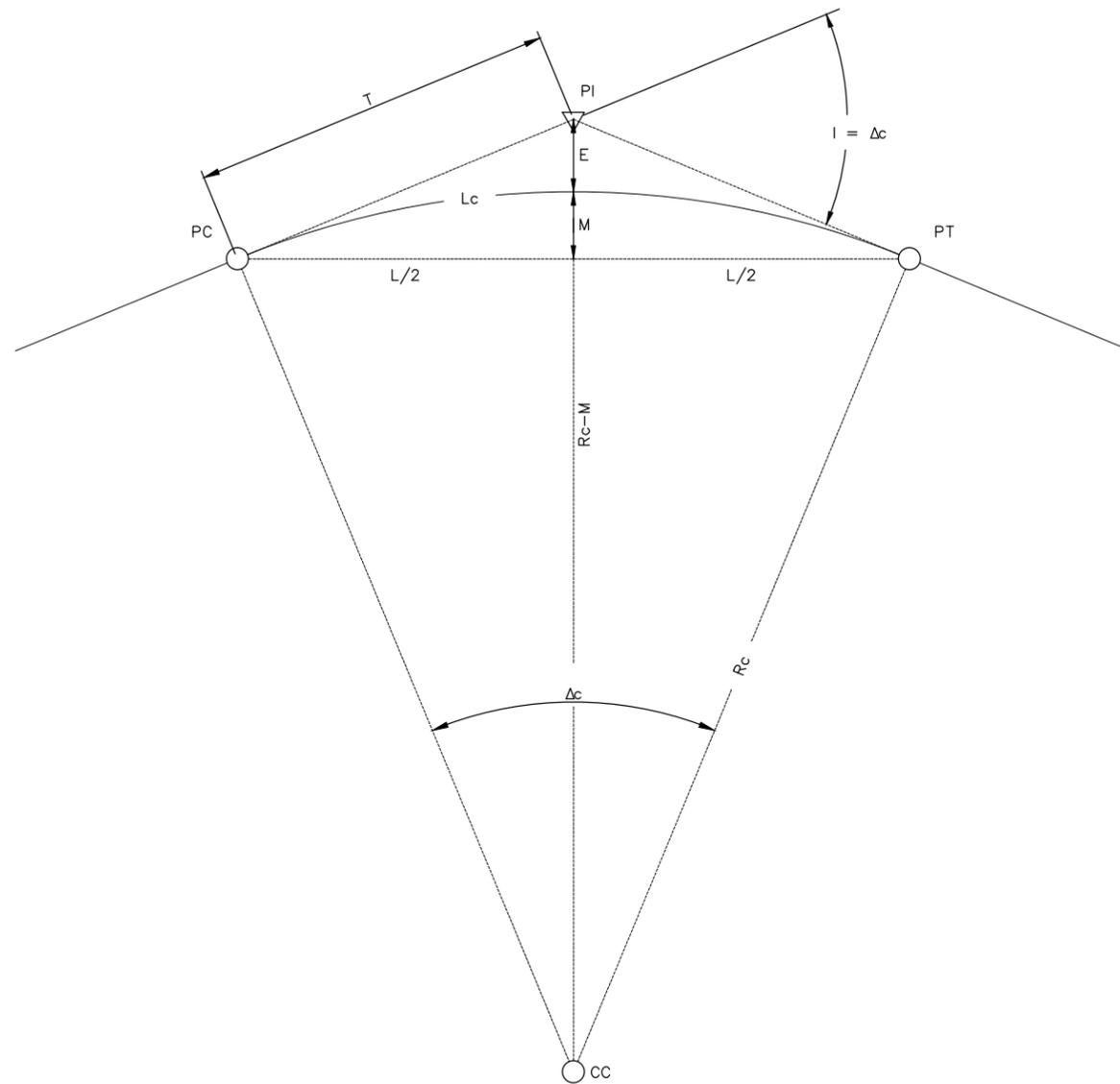


CIVIL WEST - VOLUME 3
TRACK DETAILS
TYPICAL SECTIONS INSETS

DISCIPLINE: TRACK SHEET NAME: W0-TRK-DTL-002

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SIMPLE CURVE DIAGRAM
N.T.S.

NOTES :

1. THIS DRAWING IS APPLICABLE TO SIMPLE CURVES WITHOUT TRANSITION SPIRALS AND SHALL ONLY BE USED ON NON-REVENUE TRACK.
2. ALL HORIZONTAL DISTANCES ARE IN FEET AND/OR DECIMALS OF A FOOT EXCEPT AS NOTED OTHERWISE ON PLANS.

DEFINITIONS :

- D_c = DEGREE OF CURVE IN ARC DEFINITION (DECIMAL DEGREES)
- R_c = RADIUS OF CURVE
- L_c = LENGTH OF CURVE ALONG THE ARC
- Δ_c = CENTRAL ANGLE OF CURVE (DECIMAL DEGREES)
- E = EXTERNAL DISTANCE
- T = TANGENT DISTANCE
- M = MIDDLE ORDINATE
- L = CHORD LENGTH
- I = DEFLECTION ANGLE (DECIMAL DEGREES)
- PC = POINT OF CURVE
- PT = POINT OF TANGENT
- PI = POINT OF INTERSECTION
- CC = CENTER OF CURVE

SIMPLE CURVE FORMULAS :

$$\frac{D_c}{360^\circ} = \frac{100}{2\pi R_c}$$

$$D_c = \frac{5729.58'}{R_c}$$

$$L_c = \frac{\pi R_c \Delta_c}{180}$$

$$T = R_c \tan \frac{1}{2}$$

$$E = R_c \sec \frac{1}{2} - R_c$$

$$M = R_c - R_c \cos \frac{1}{2}$$

$$L = 2 R_c \sin \frac{1}{2}$$

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CIVIL WEST - VOLUME 3
TRACK DETAILS
SIMPLE CURVE DIAGRAM

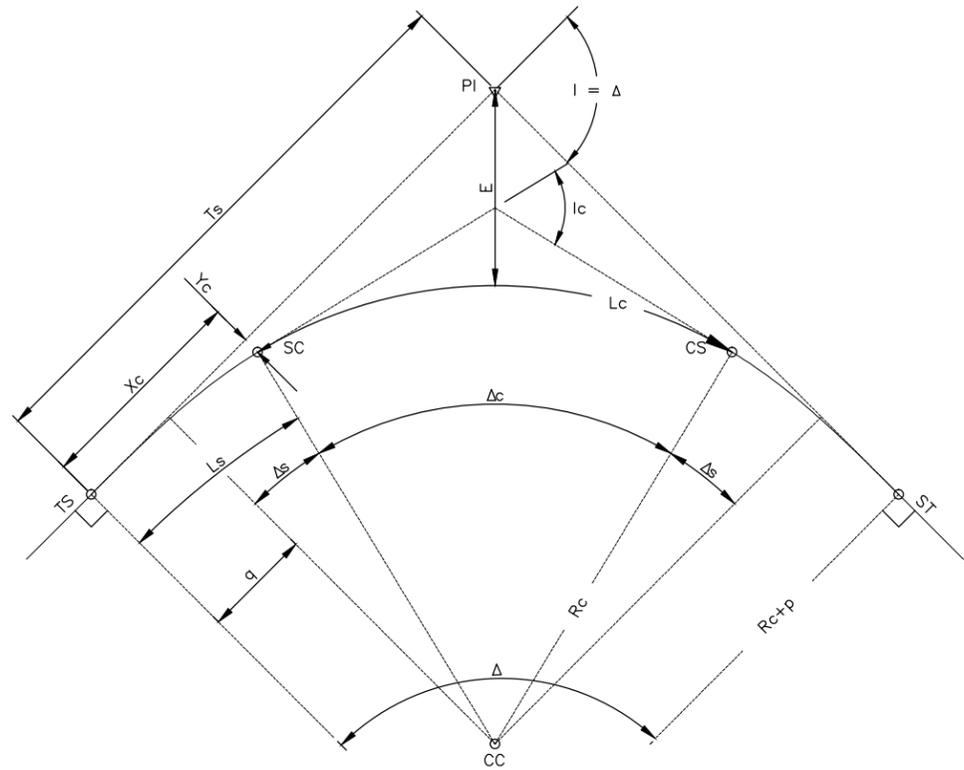
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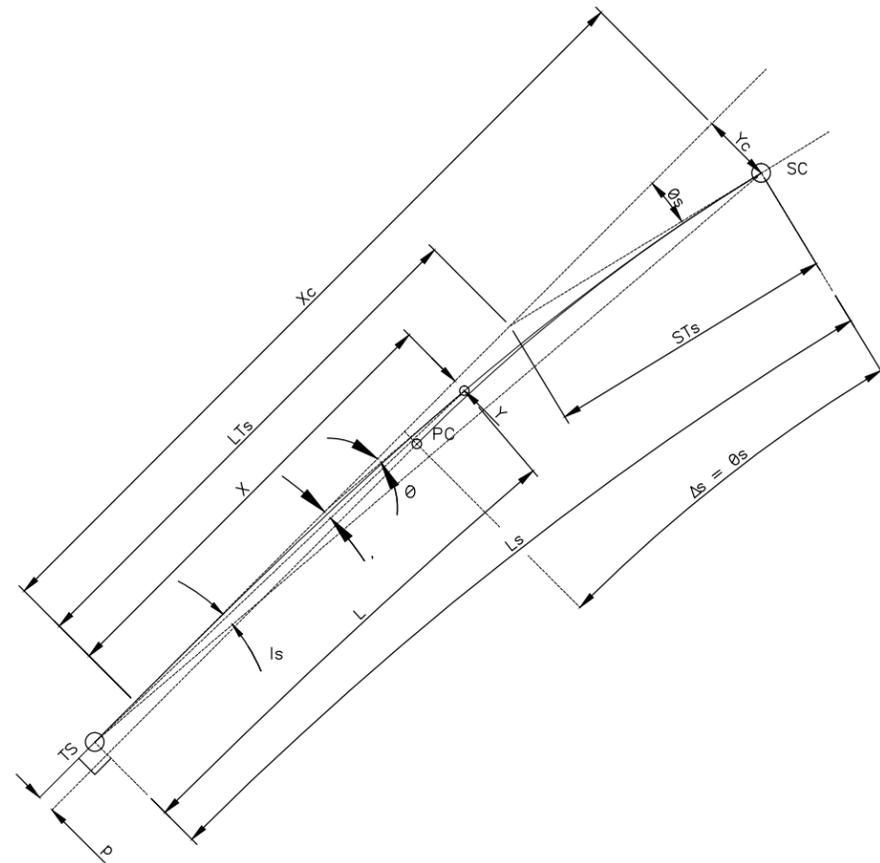
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SPIRAL CURVE DIAGRAM
N.T.S.



SPIRAL DIAGRAM
N.T.S.

NOTES :

1. SPIRALS ARE TALBOT (CLOTHOID) SPIRALS.
2. ALL HORIZONTAL DISTANCES ARE IN FEET AND/OR DECIMALS OF A FOOT EXCEPT AS NOTED OTHERWISE ON PLANS.

DEFINITIONS :

- Dc = DEGREE OF SIMPLE CURVE IN ARC DEFINITION (DEGREES)
- Rc = RADIUS OF CURVE
- Δ = TOTAL CENTRAL ANGLE OF CURVE (DEGREES)
- Δc = CENTRAL ANGLE OF SIMPLE CURVE (DEGREES)
- Δs = CENTRAL ANGLE OF SPIRAL (RADIAN)
- E = EXTERNAL DISTANCE OF THE SIMPLE CURVE
- Ts = TOTAL TANGENT DISTANCE
- Ls = LENGTH OF SPIRAL
- Lc = LENGTH OF THE SIMPLE CURVE ARC
- L = LENGTH FROM TS TO ANY POINT ALONG THE SPIRAL
- I = TOTAL DEFLECTION ANGLE (DEGREES)
- lc = DEFLECTION ANGLE OF THE SIMPLE CURVE (DEGREES)
- Is = DEFLECTION ANGLE OF THE SPIRAL (DEGREES)
- i = DEFLECTION ANGLE FROM TS TO ANY POINT ON THE SPIRAL
- p = LENGTH OF THROW, OFFSET DISTANCE FROM TANGENT TO PC/PT
- q = DISTANCE FROM TS/ST TO THE OFFSET TC/CT
- Xc = DISTANCE ALONG TANGENT FROM TS/ST TO THE SC/CS
- Yc = OFFSET DISTANCE FROM TANGENT TO SC/CS
- X = DISTANCE ALONG TANGENT FROM TS/ST TO ANY POINT ON THE SPIRAL
- Y = OFFSET DISTANCE FROM TANGENT TO ANY POINT ON THE SPIRAL
- θs = SPIRAL ANGLE FROM TANGENT TO SC
- θ = SPIRAL ANGLE FROM TANGENT TO ANY POINT ON THE SPIRAL
- LTs = LONG TANGENT OF SPIRAL
- STs = SHORT TANGENT OF SPIRAL
- TS = POINT OF TANGENT TO SPIRAL CURVE
- SC = POINT OF SPIRAL CURVE TO SIMPLE CURVE
- CS = POINT OF SIMPLE CURVE TO SPIRAL CURVE
- ST = POINT OF SPIRAL CURVE TO TANGENT
- PC = POINT OF CURVE
- PT = POINT OF TANGENT
- PI = POINT OF INTERSECTION
- CC = CENTER OF CURVE

SPIRAL CURVE FORMULAS :

$$\Delta = \Delta_c + 2\Delta_s$$

$$\Delta_s = \frac{Ls}{2Rc}$$

$$i = \frac{\theta}{3}$$

$$X = L - \frac{L^3}{40Rc^2 Ls^2}$$

$$Lc = Ls - \frac{Ls^3}{40Rc^2}$$

$$Y = \frac{L^3}{6RcLs}$$

$$Yc = \frac{Ls^2}{6Rc}$$

$$q = Xc - Rc \sin \Delta_s$$

$$p = \frac{1}{2} Yc = \frac{Ls^2}{24Rc}$$

$$E = \frac{Rc + p}{\cos \frac{\Delta}{2}} - Rc$$

$$LTs = Xc - \frac{Yc}{\tan \Delta_s}$$

$$STs = \frac{Yc}{\sin \Delta_s}$$

$$\frac{Dc}{360} = \frac{100}{2\pi Rc}$$

$$Dc = \frac{5729.58'}{Rc}$$

$$Lc = \frac{\pi Rc \Delta_c}{180}$$

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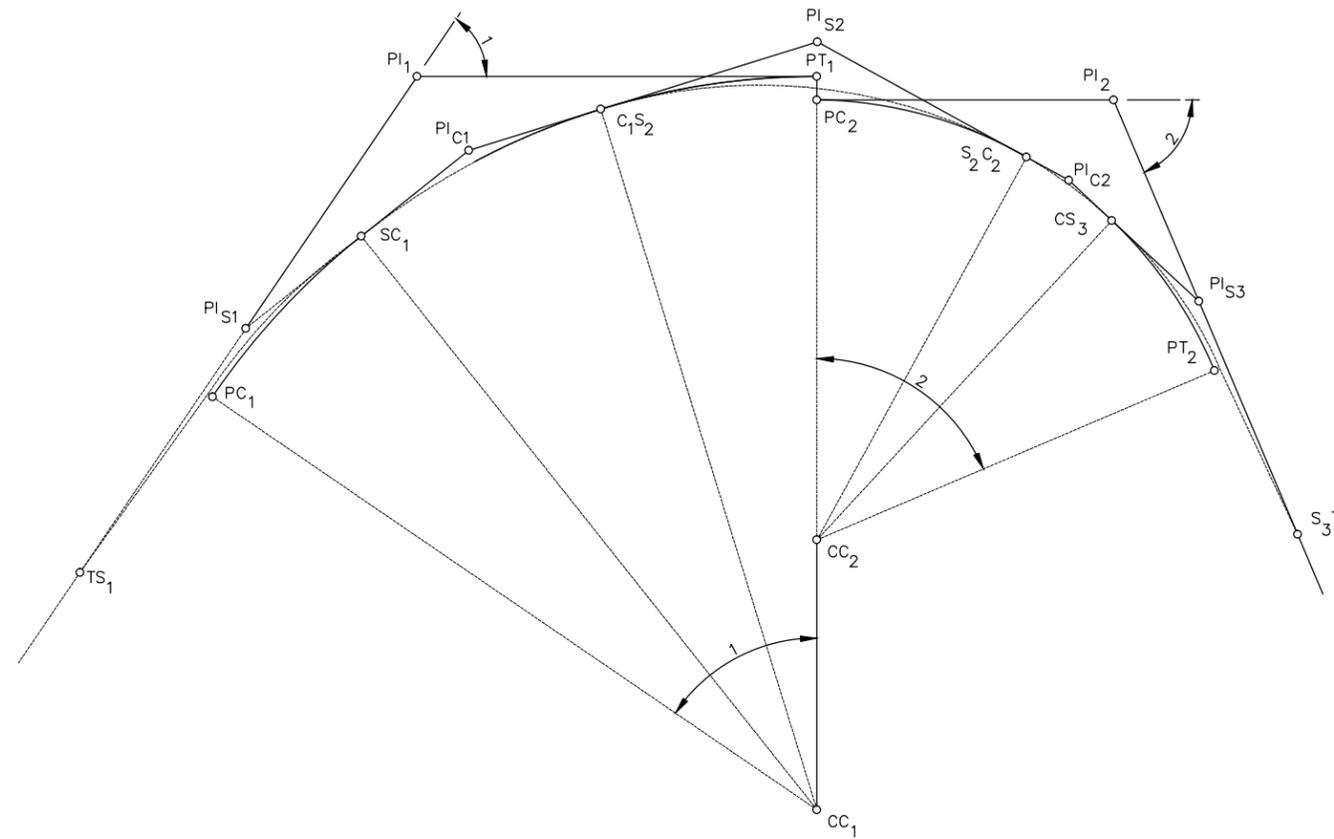


CIVIL WEST - VOLUME 3
TRACK DETAILS
SPIRAL CURVE DIAGRAMS

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TWO CENTERED COMPOUND CURVES WITH SPIRALS
N.T.S.

NOTES :

1. SPIRALS ARE TALBOT (CLOTHOID) SPIRALS.
2. ALL HORIZONTAL DISTANCES ARE IN FEET AND/OR DECIMALS OF A FOOT EXCEPT AS NOTED OTHERWISE ON PLANS.

DEFINITIONS :

- TS = POINT OF TANGENT TO SPIRAL CURVE
- SC = POINT OF SPIRAL CURVE TO SIMPLE CURVE
- CS = POINT OF SIMPLE CURVE TO SPIRAL CURVE
- ST = POINT OF SPIRAL CURVE TO TANGENT
- PC = POINT OF CURVE
- PT = POINT OF TANGENT
- PI = POINT OF INTERSECTION
- CC = CENTER OF CURVE

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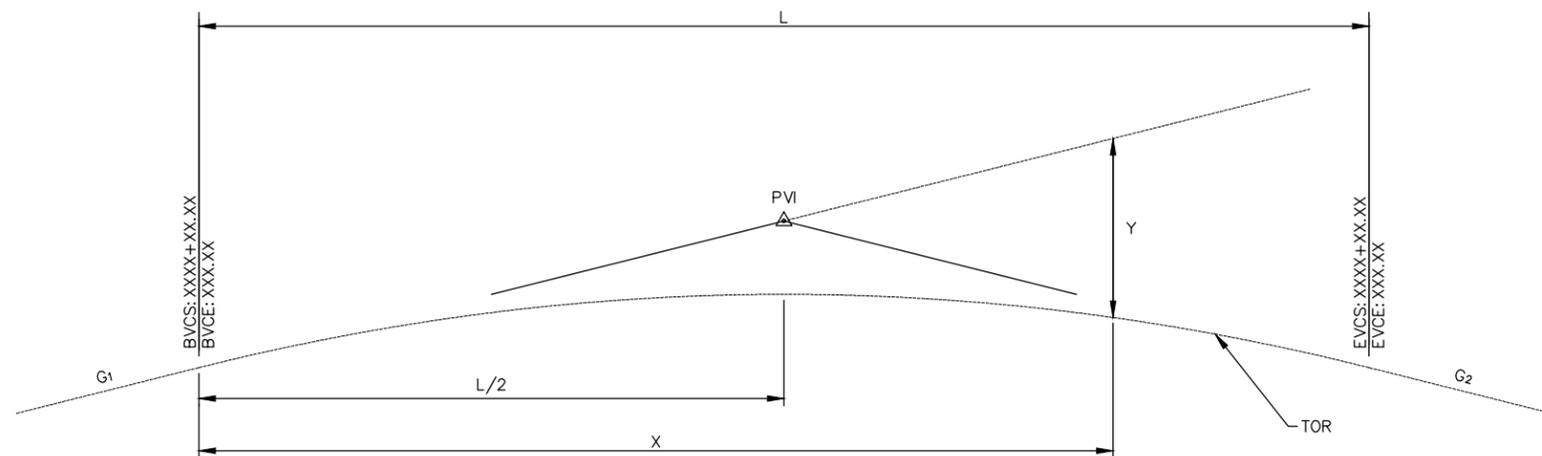
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**CIVIL WEST - VOLUME 3
TRACK DETAILS
COMPOUND CURVE WITH SPIRALS**

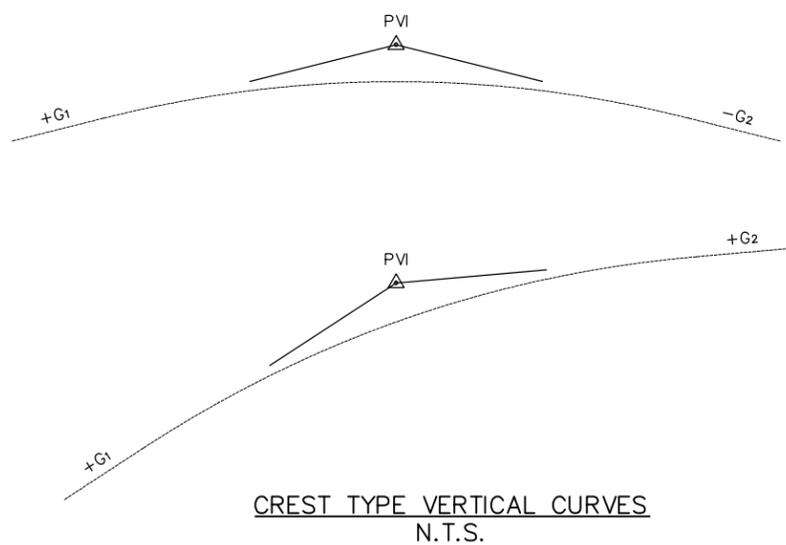
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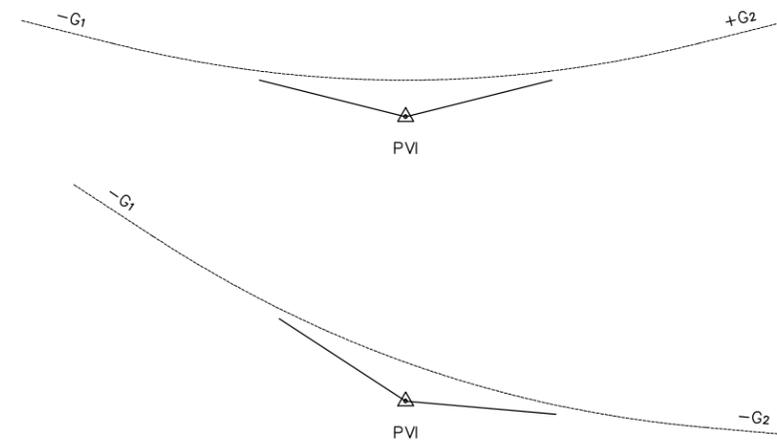
PVI STA: XXXX+XX.XX
 PVI ELEV: XXX.XX
 AD: X.XX
 r: X.XX
 XXX.XX' VC



STANDARD VERTICAL CURVE
 N.T.S.



CREST TYPE VERTICAL CURVES
 N.T.S.



SAG TYPE VERTICAL CURVES
 N.T.S.

NOTES :

1. ALL HORIZONTAL DISTANCES ARE IN FEET AND/OR DECIMALS OF A FOOT EXCEPT AS NOTED OTHERWISE ON PLANS.

DEFINITIONS :

- G1 = ENTRY GRADE %
- G2 = DEPARTING GRADE %
- PVI = POINT OF VERTICAL INTERSECTION
- AD = ALGEBRAIC DIFFERENCE
- r = RATE OF CHANGE OF GRADE
- L = LENGTH OF VERTICAL CURVE
- BVCS = BEGIN VERTICAL CURVE STATION
- BVCE = BEGIN VERTICAL CURVE ELEVATION
- EVCS = END VERTICAL CURVE STATION
- EVCE = END VERTICAL CURVE ELEVATION
- X = HORIZONTAL DISTANCE FROM BVC
- Y = ELEVATION OF PARABOLA BELOW G1
- Rv = EQUIVALENT RADIUS OF VERTICAL CURVE

VERTICAL CURVE FORMULAS :

$$a = \frac{G_2 - G_1}{2L}$$

$$Y = BVCE + G_1X + ax^2$$

$$AD = G_2 - G_1$$

$$r = \frac{100 \cdot AD}{L}$$

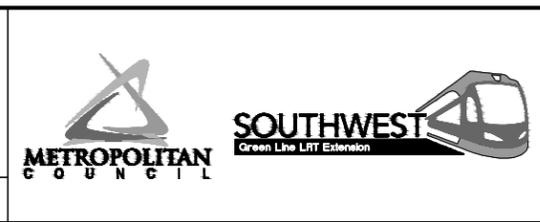
$$R_v = \frac{L}{0.01 \cdot AD}$$

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CIVIL WEST - VOLUME 3
 TRACK DETAILS
 VERTICAL CURVE GEOMETRY

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