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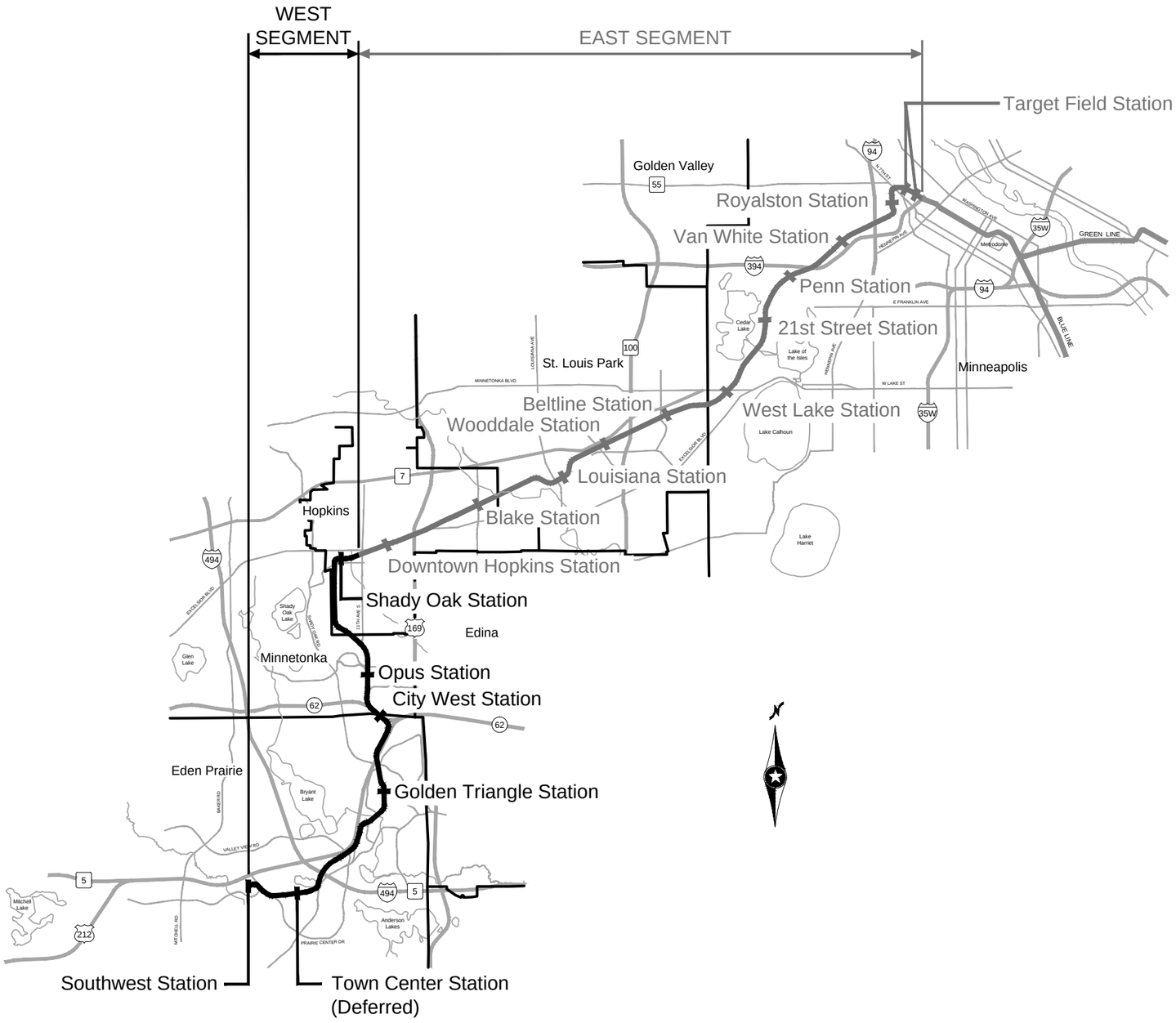


SOUTHWEST
Green Line LRT Extension

METROPOLITAN COUNCIL

# WEST SEGMENT 3

## TRACK WORK/CIVIL
## REVISED PRELIMINARY DESIGN
## PLANS FOR MUNICIPAL CONSENT
## (07/23/2015)

MN STATUTE 473.3994

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**PRELIMINARY - NOT FOR CONSTRUCTION**

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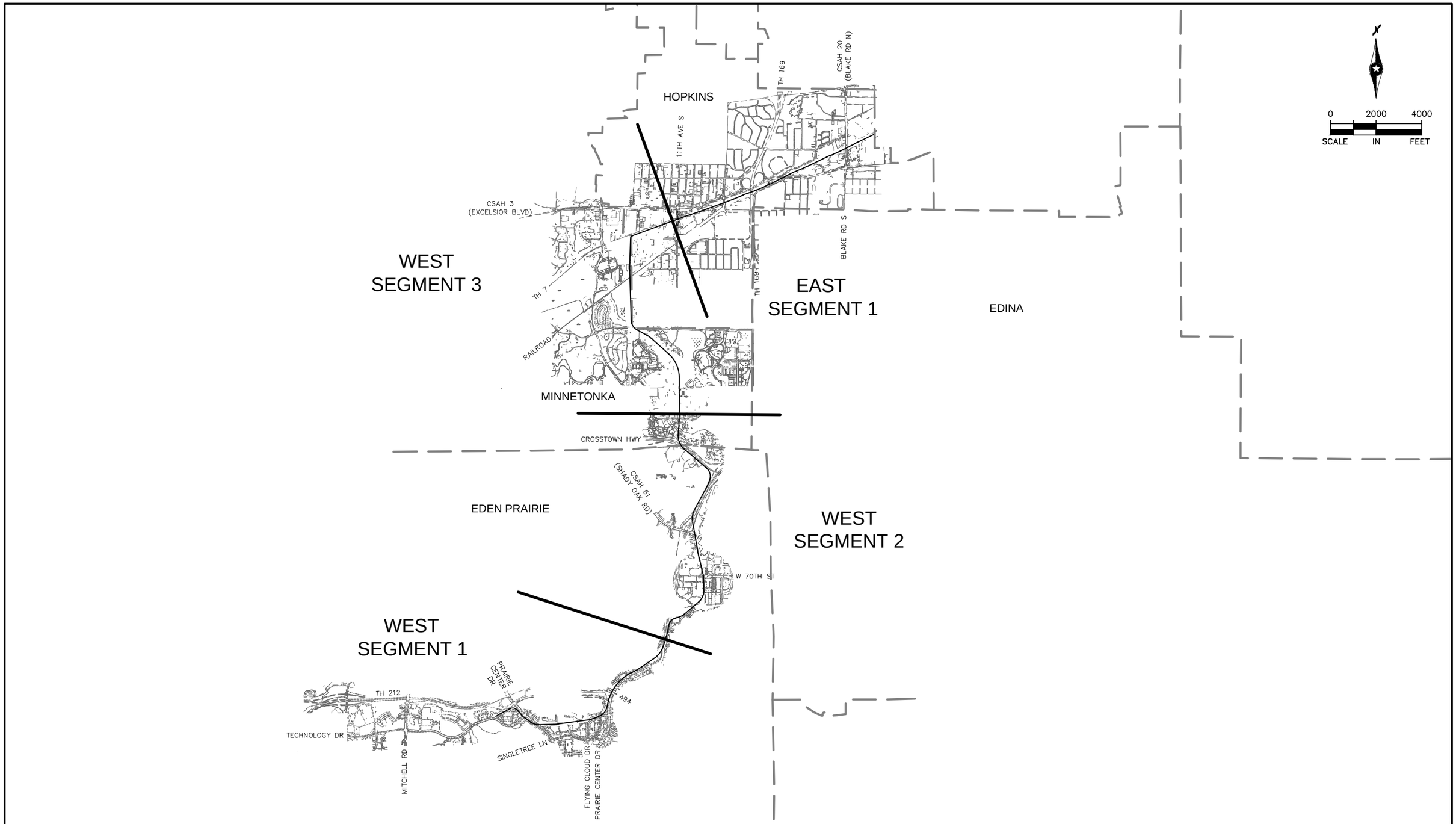


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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

**WEST SEGMENT 3**
**GENERAL**
**SEGMENT KEY MAP**

DISCIPLINE: GENERAL

SHEET NAME: W3-GEN-KEY - 001

SHEET 2 OF 49

Jul, 21 2015 06:43 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS MC\GENERAL\W3-GEN-KEY.dwg By: V-KriewaMR

## TRACK SYMBOLS

- PROPOSED SIGNALIZED INTERSECTION
- EXISTING SIGNALIZED INTERSECTION
- PROPOSED DIRECTIONAL LANE USE
- EXISTING DIRECTIONAL LANE USE
- AUTOMATIC GATE
- RAIL TURNOUT
- RAIL CROSSOVER (DOUBLE)
- RAIL CROSSOVER (SINGLE)
- POINT OF SWITCH (PS)
- W2-200 — 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 SIGNALIZED INTERSECTION
- EXISTING SIGNALIZED INTERSECTION
- 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

## TRACK LINETYPES

- ROADWAY ℄
- TRACK ℄
- RETAINING WALL
- BALLAST CURB
- TUNNEL WALL
- FENCE
- EX ROW
- PROP ROW
- PROP TCE
- PROP PE

## CIVIL LINETYPES

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

## TRAIL INDEX

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

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| AD | ALGEBRAIC DIFFERENCE | OCS | OVERHEAD CONTACT SYSTEM |
| AVE | AVENUE | OH | OVERHEAD |
| BGN | BEGIN | PC | POINT OF CURVE |
| BP | BEGINNING POINT | PE | PROPOSED EASEMENT |
| BVCE | BEGINNING VERTICAL CURVE ELEVATION | PITO | POINT OF INTERSECTION OF TURNOUT |
| BVCS | BEGINNING VERTICAL CURVE STATION | PKWY | PARKWAY |
| BLVD | BOULEVARD | POT | POINT ON TANGENT |
| BNSF | BURLINGTON NORTHERN SANTA FE RAILWAY | PROP | PROPOSED |
| C&G | CURB AND GUTTER | PS | POINT OF SWITCH |
| ℄ | CENTERLINE | PT | POINT OF TANGENT |
| CP | CANADIAN PACIFIC | PVI | POINT OF VERTICAL INTERSECTION |
| CPRAIL | CANADIAN PACIFIC RAILWAY | R | RADIUS (FEET) |
| CS | CURVE TO SPIRAL | r | RATE OF CHANGE VERTICAL CURVE |
| CSAH | COUNTY STATE AID HIGHWAY | RH | RIGHT HAND |
| DF | DIRECT FIXATION | ROW | RIGHT OF WAY |
| DR | DRIVE | S | SOUTH |
| Ea | ACTUAL SUPERELEVATION (INCHES) | SB | SOUTH BOUND |
| EB | EAST BOUND | SC | SPIRAL TO CURVE |
| ELEV | ELEVATION | SIG-COMM | SIGNAL COMMUNICATION |
| EP | END POINT | ST | STREET |
| Eu | UNBALANCED SUPERELEVATION (INCHES) | ST | SPIRAL TO TANGENT |
| EVCE | ENDING VERTICAL CURVE ELEVATION | STA | STATION |
| EVCS | ENDING VERTICAL CURVE STATION | TCE | TEMPORARY CONSTRUCTION EASEMENT |
| EX | EXISTING | TOR | TOP OF RAIL |
| HCRRA | HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY | TPSS | TRACTION POWER SUBSTATION |
| LH | LEFT HAND | TRK | TRACK |
| Ls | SPIRAL LENGTH (FEET) | TS | TANGENT TO SPIRAL |
| MPLS | CITY OF MINNEAPOLIS | UG | UNDERGROUND |
| MPRB | MINNEAPOLIS PARK AND RECREATION BOARD | V | DESIGN VELOCITY (MPH) |
| N | NORTH | WB | WEST BOUND |
| NB | NORTH BOUND | | |
| NO | NUMBER | | |

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

# WEST SEGMENT 3
# GENERAL
# LEGEND AND ABBREVIATIONS

DISCIPLINE: GENERAL

SHEET NAME: W3-GEN-NTS - 001

SHEET 3 OF 49

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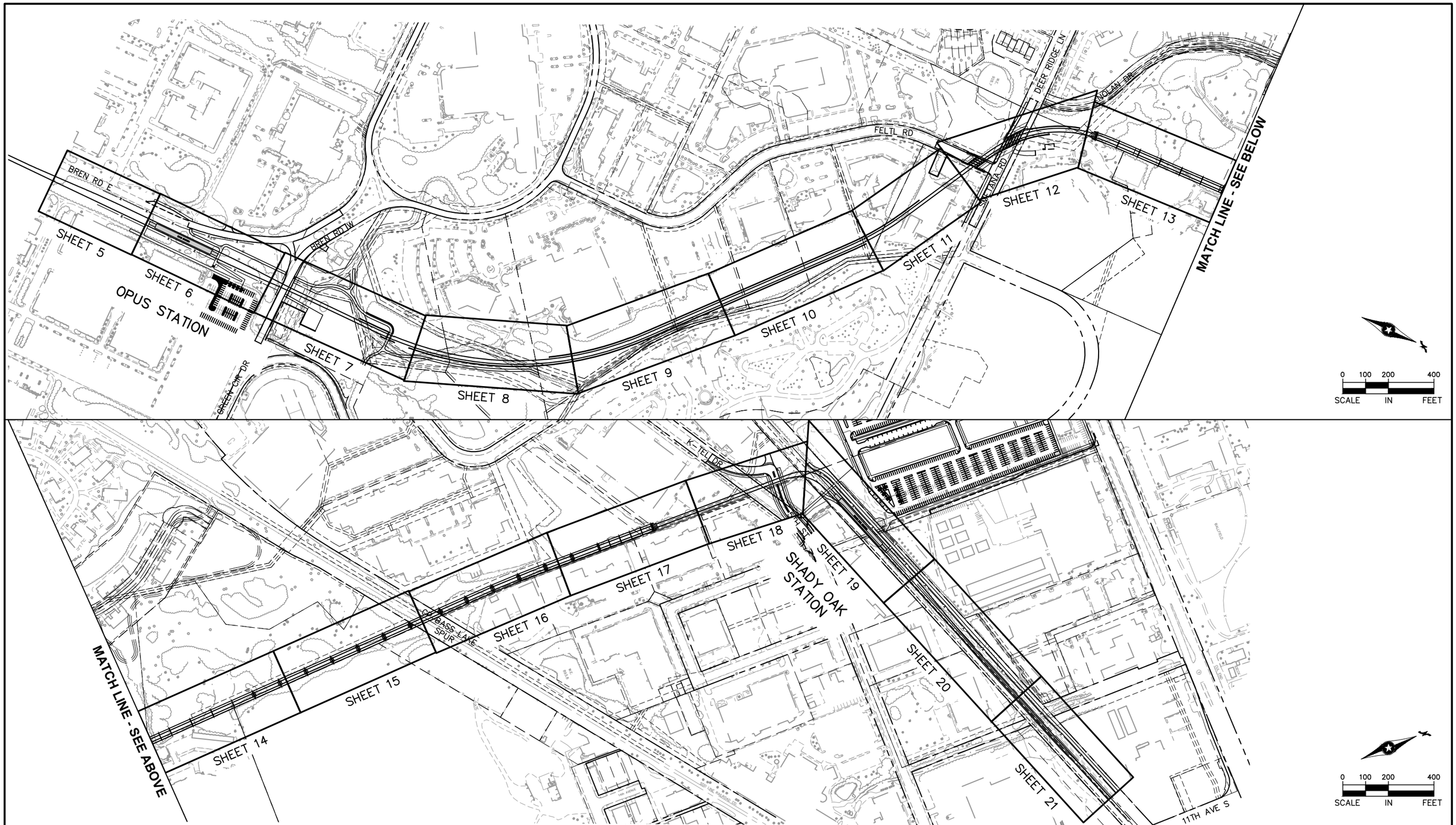


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SOUTHWEST Green Line LRT Extension

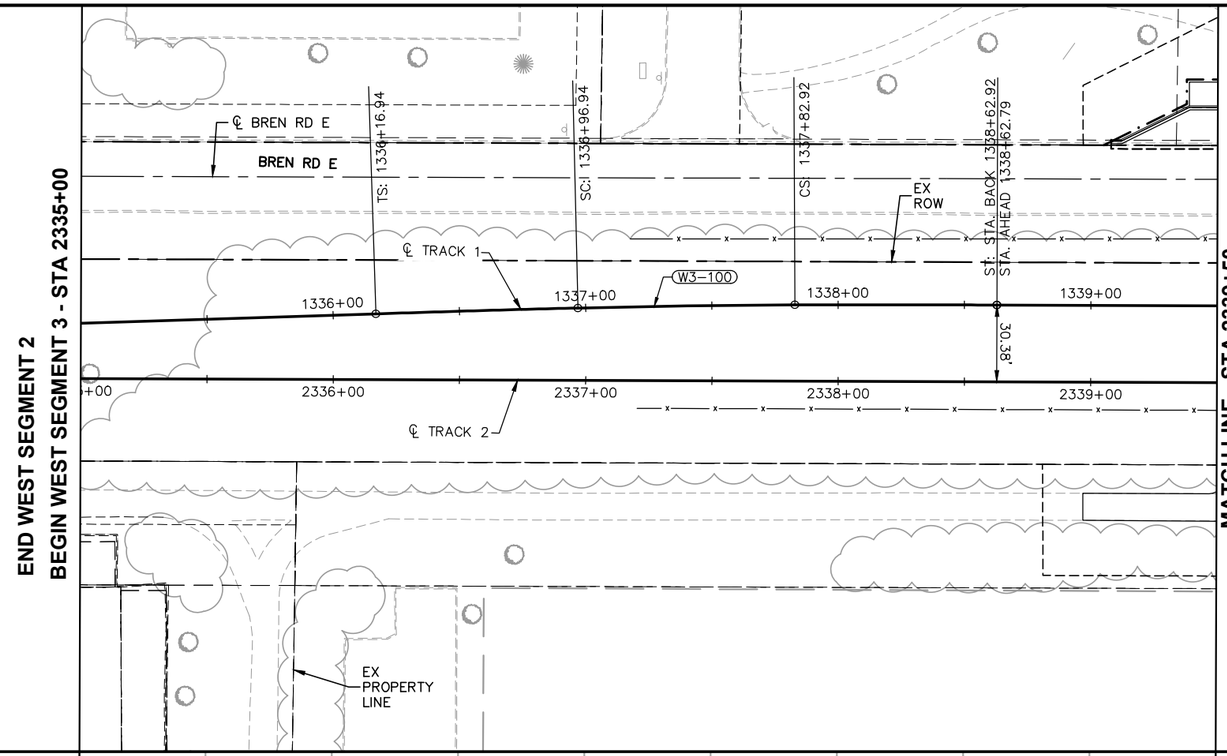
# WEST SEGMENT 3
# TRACK
# SHEET LAYOUT INDEX

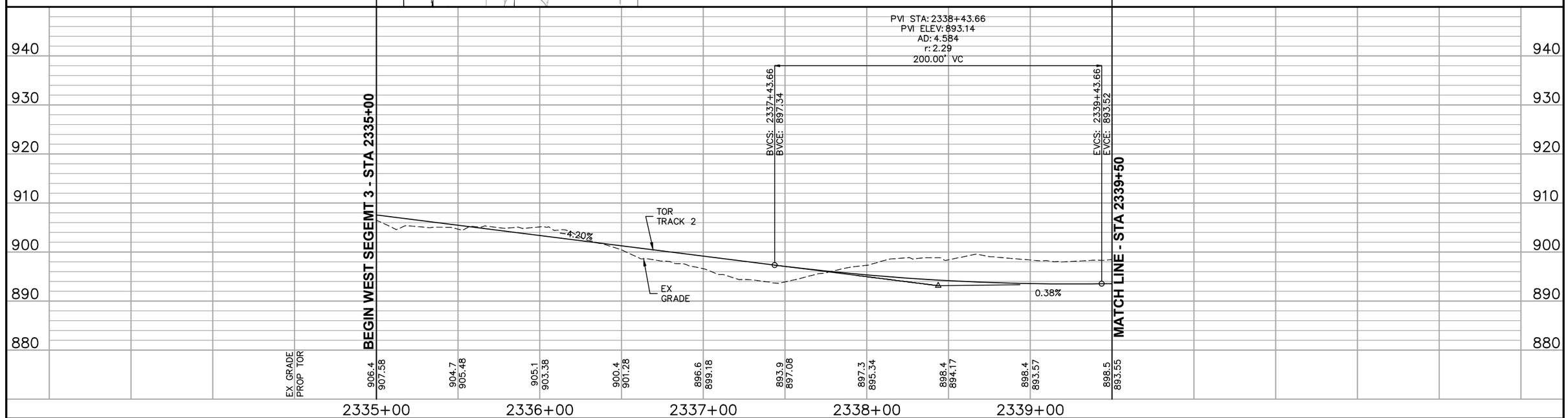
DISCIPLINE: TRACK

SHEET NAME: W3-TRK-IDX - 001

SHEET 4 OF 49

Jul, 21 2015 04:26 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS MC\TRACK\W3-TRK-IDX.dwg By: Konenj




0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

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SOUTHWEST Green Line LRT Extension

# WEST SEGMENT 3
# TRACK
# PLAN AND PROFILE
# STA 2335+00 TO STA 2339+50

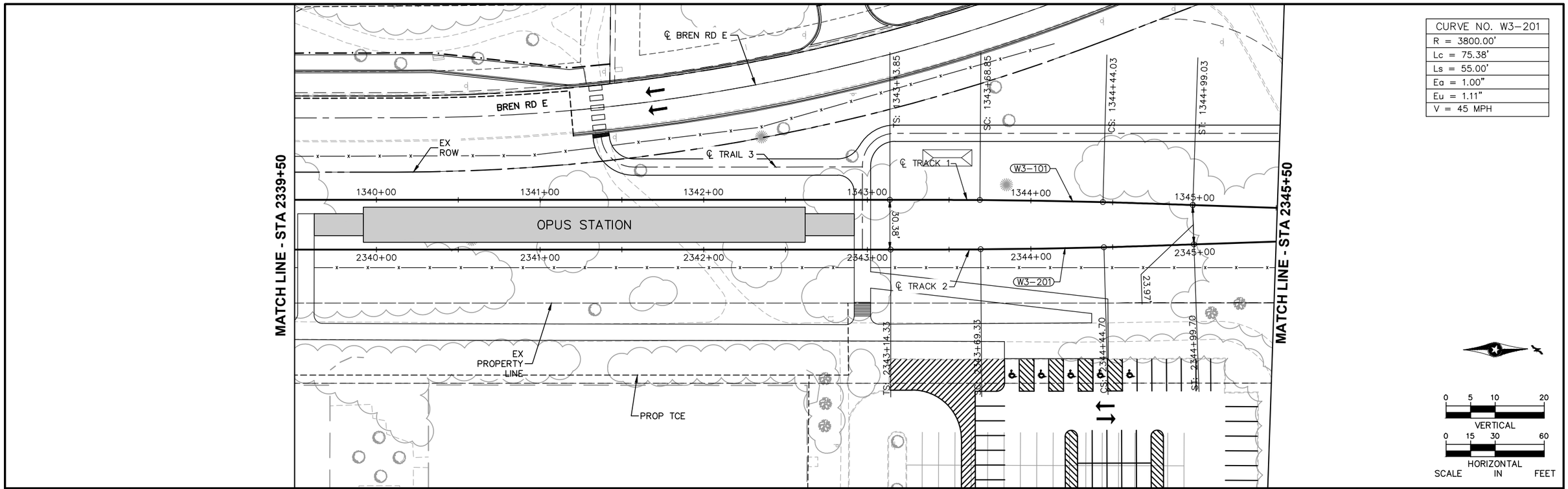
DISCIPLINE: TRACK

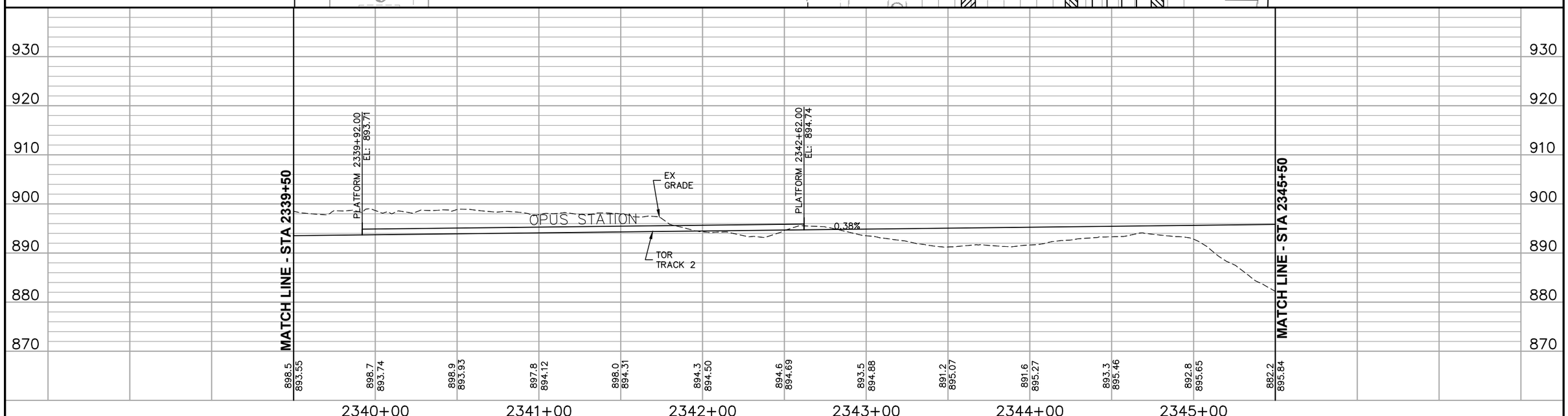
SHEET NAME: W3-TRK-PRF - 001

SHEET 5 OF 49

Jul. 21 2015 04:27 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS MC\TRACK\W3-TRK-PRF-MC.dwg By: Konenj

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

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SOUTHWEST Green Line LRT Extension

**WEST SEGMENT 3**
**TRACK**
**PLAN AND PROFILE**
**STA 2339+50 TO STA 2345+50**

DISCIPLINE: TRACK

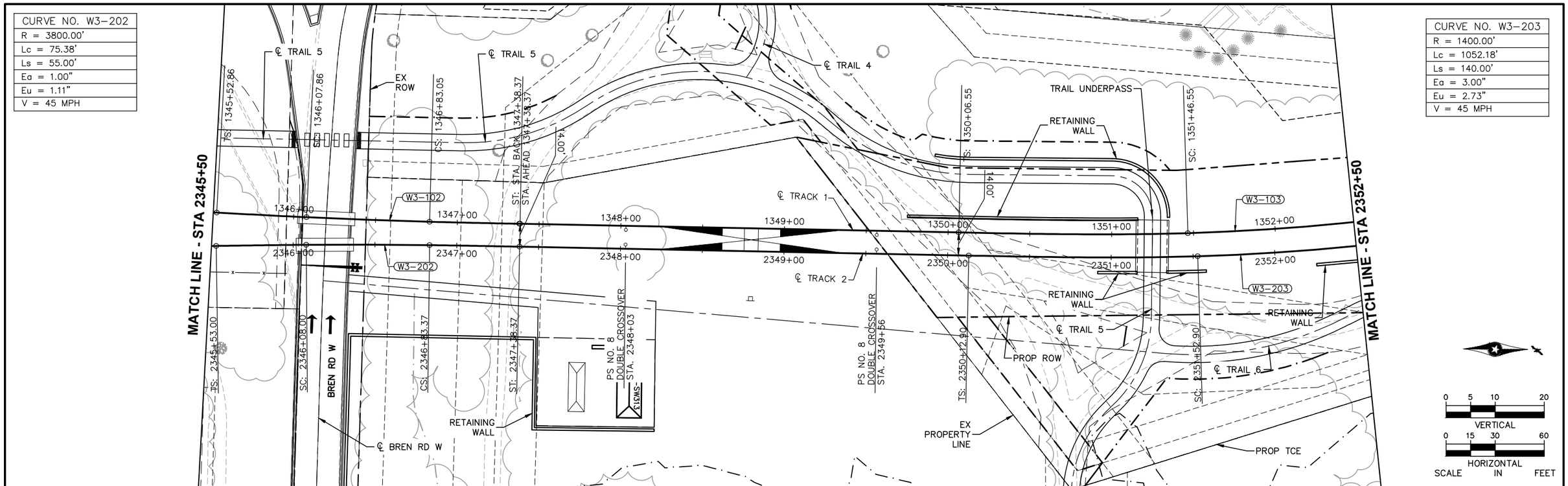
SHEET NAME: W3-TRK-PRF - 002

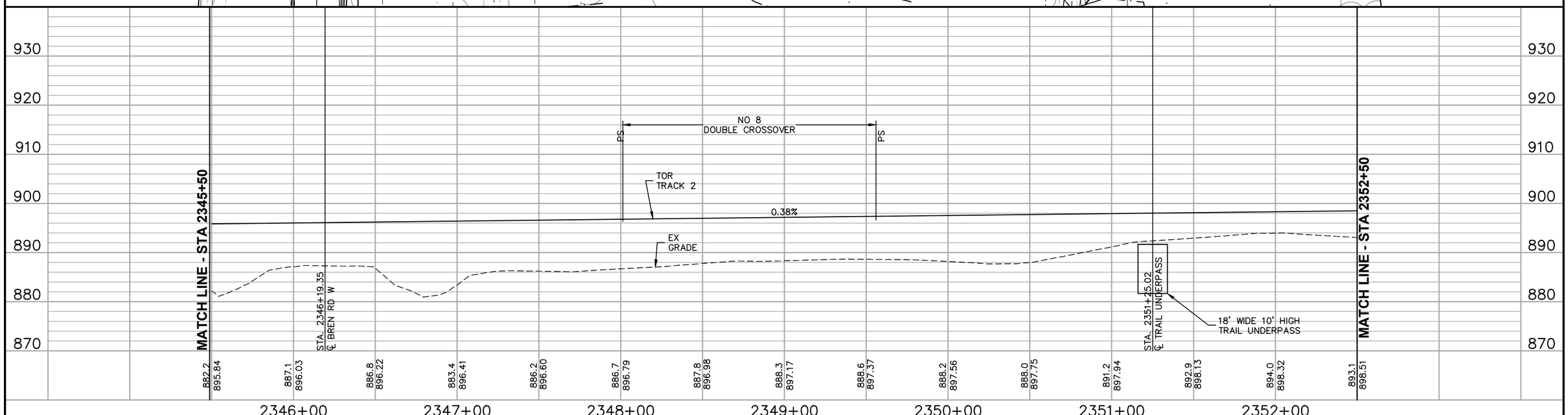
SHEET 6 OF 49

Jul, 21 2015 04:28 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS MC\TRACK\W3-TRK-PRF-MC.dwg By: Konenjl

| CURVE NO. W3-202 |
|---|
| R = 3800.00' |
| Lc = 75.38' |
| Ls = 55.00' |
| Ea = 1.00" |
| Eu = 1.11" |
| V = 45 MPH |

| CURVE NO. W3-203 |
|---|
| R = 1400.00' |
| Lc = 1052.18' |
| Ls = 140.00' |
| Ea = 3.00" |
| Eu = 2.73" |
| V = 45 MPH |

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SOUTHWEST Green Line LRT Extension

**WEST SEGMENT 3**
**TRACK**
**PLAN AND PROFILE**
**STA 2345+50 TO STA 2352+50**

DISCIPLINE: TRACK

SHEET NAME: W3-TRK-PRF - 003

SHEET 7 OF 49

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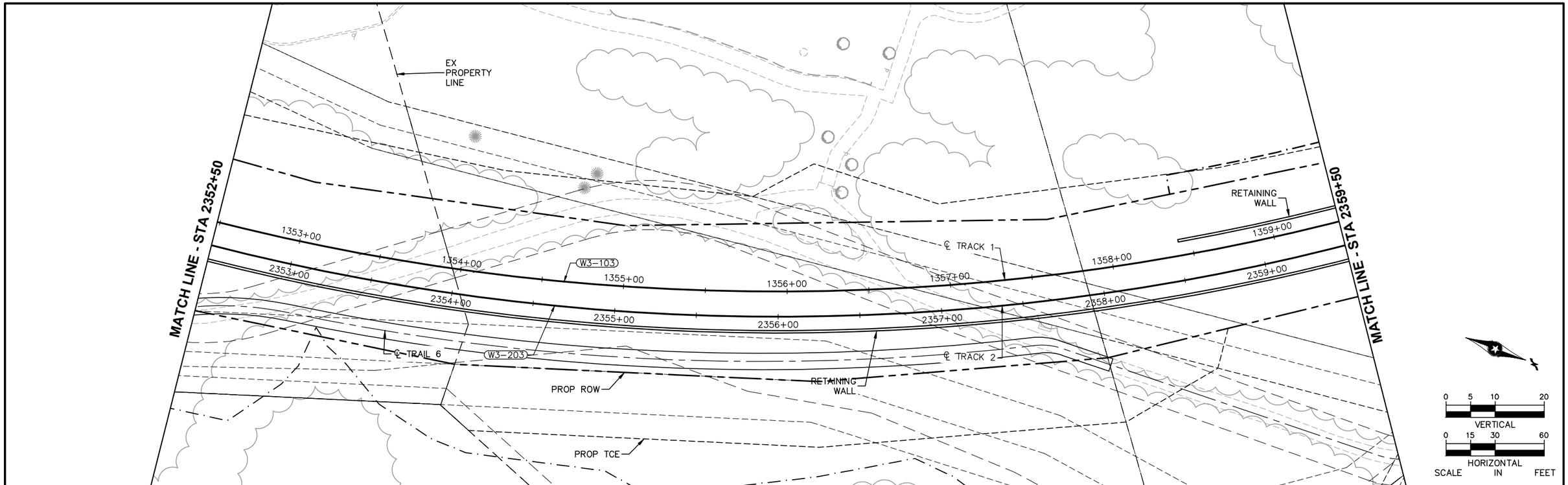


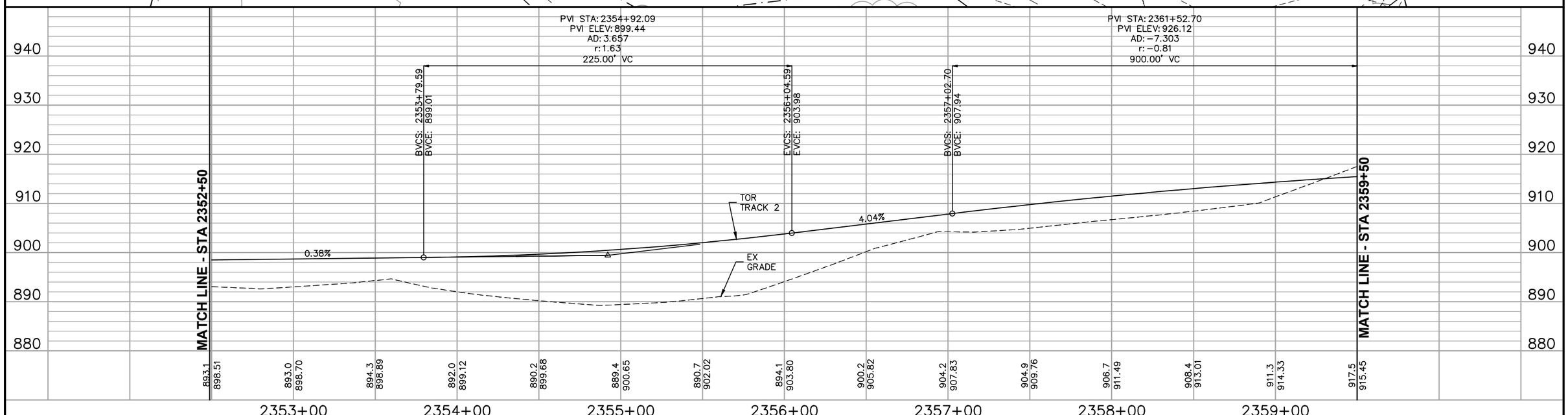


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SOUTHWEST Green Line LRT Extension

**WEST SEGMENT 3**
**TRACK**
**PLAN AND PROFILE**
**STA 2352+50 TO STA 2359+50**

DISCIPLINE: TRACK

SHEET NAME: W3-TRK-PRF - 004

SHEET 8 OF 49

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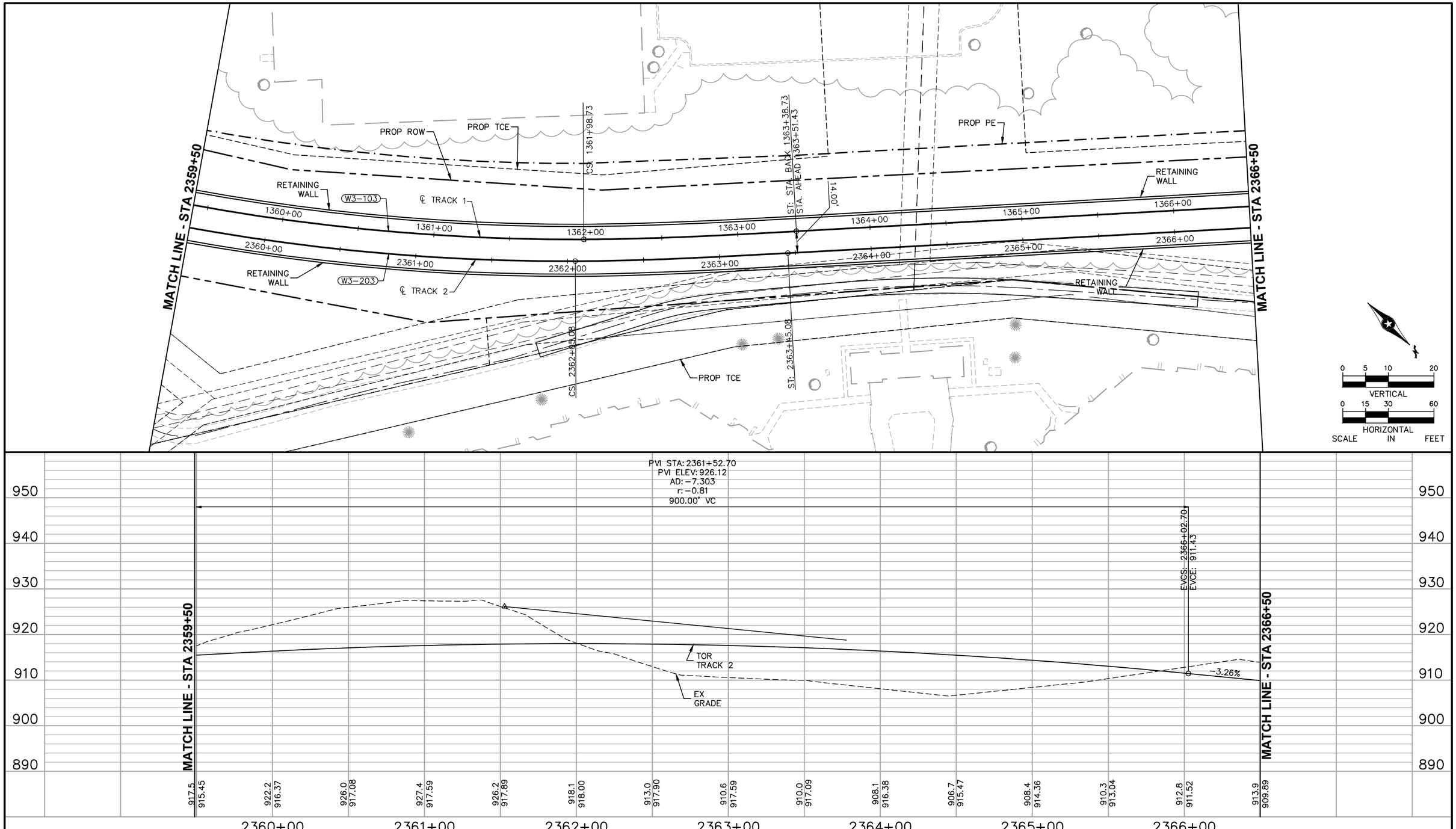


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SOUTHWEST Green Line LRT Extension

**WEST SEGMENT 3**
**TRACK**
**PLAN AND PROFILE**
**STA 2359+50 TO STA 2366+50**

DISCIPLINE: TRACK

SHEET NAME: W3-TRK-PRF - 005

SHEET 9 OF 49

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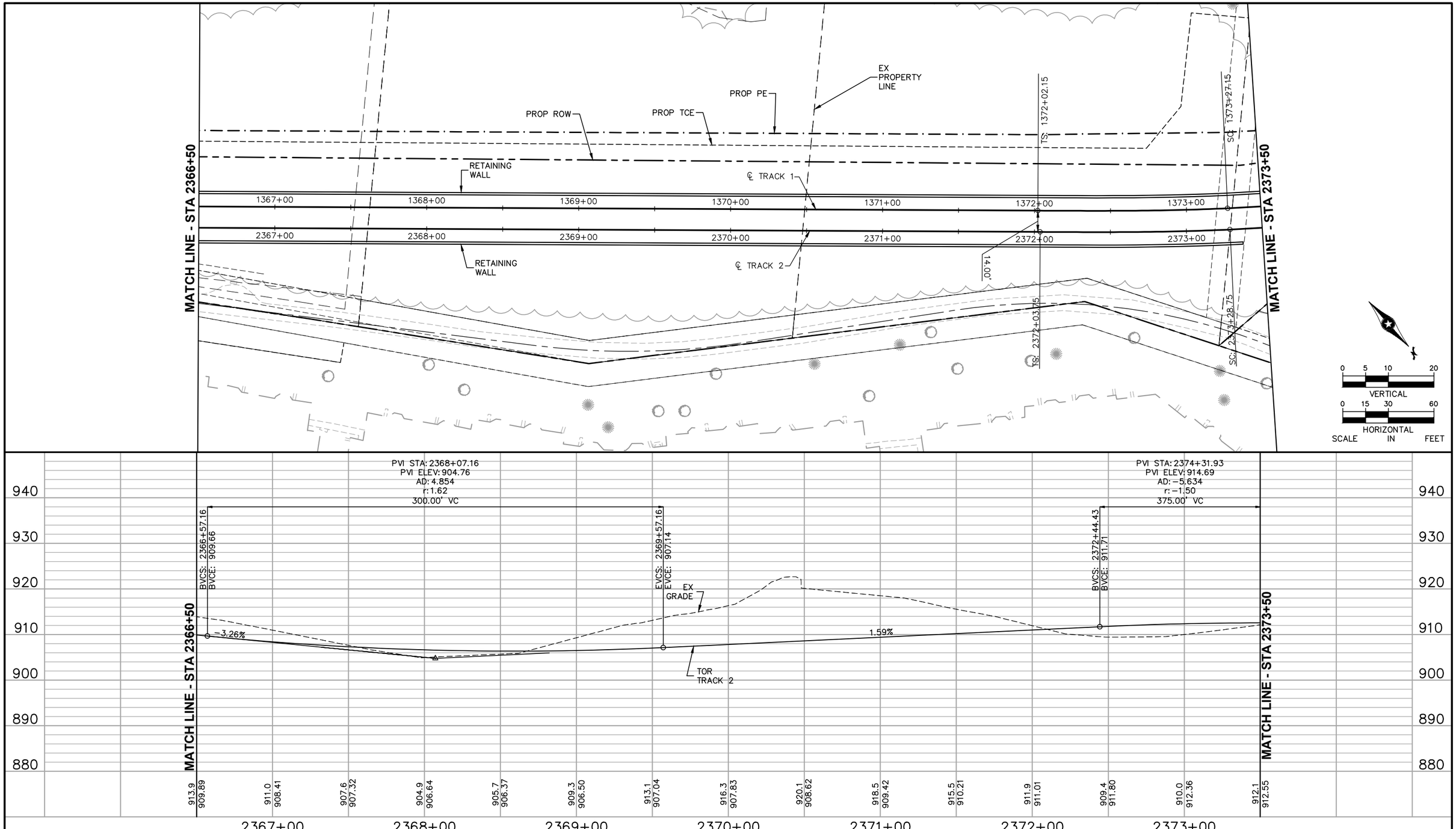


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SOUTHWEST Green Line LRT Extension

**WEST SEGMENT 3**
**TRACK**
**PLAN AND PROFILE**
**STA 2366+50 TO STA 2373+50**

DISCIPLINE: TRACK

SHEET NAME: W3-TRK-PRF - 006

SHEET 10 OF 49

Jul. 21 2015 04:31 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS MC\TRACK\W3-TRK-PRF-MC.dwg By: Konenj

| CURVE NO. W3–204 |
|---|
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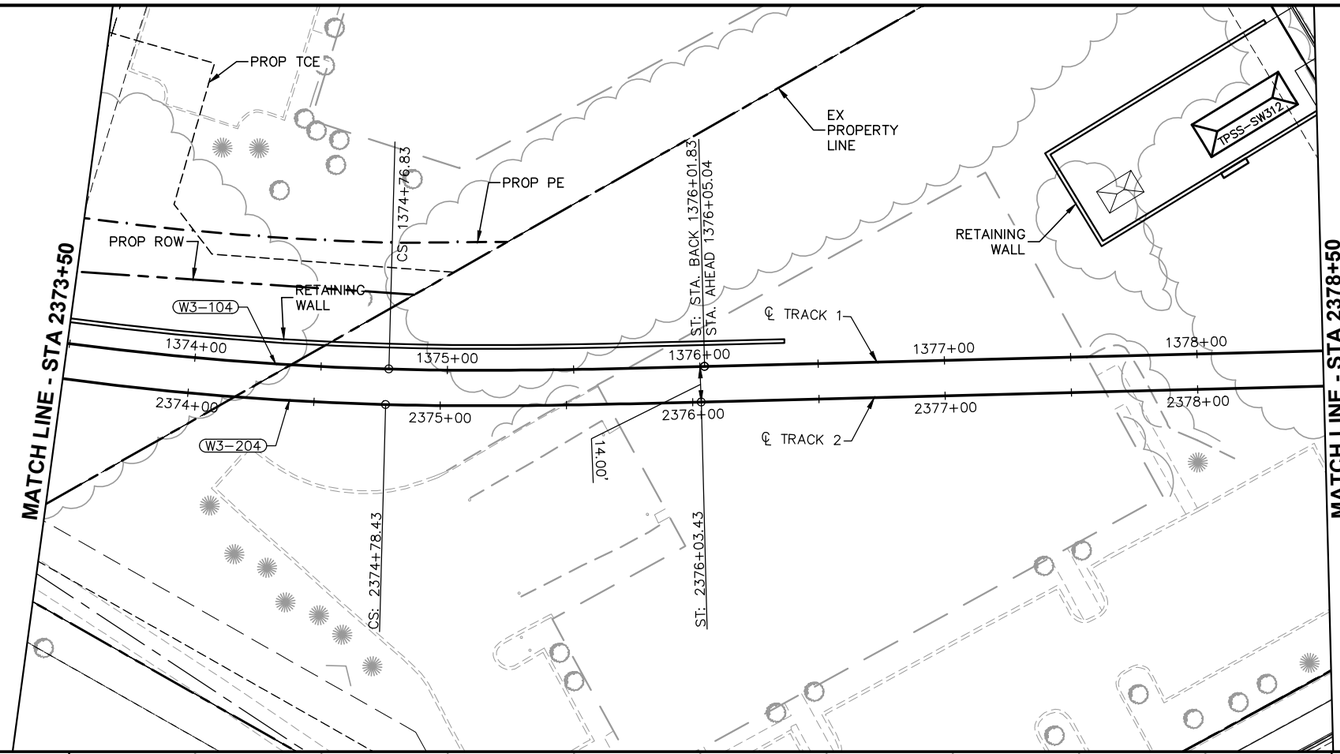
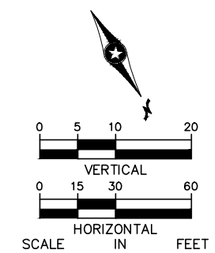
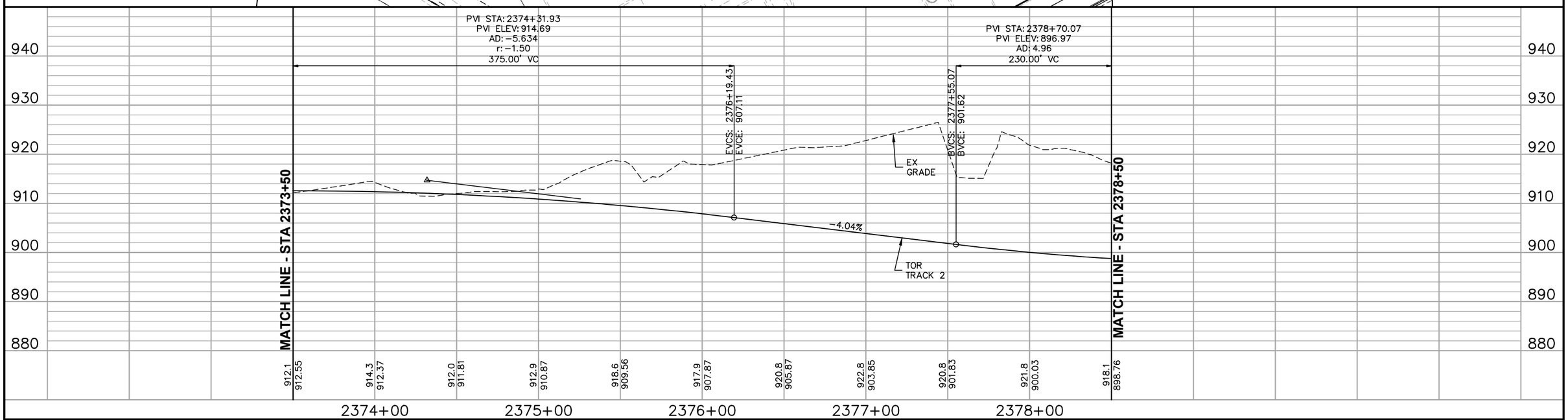
| Ls = 125.00' |
| Ea = 3.00" |
| Eu = 2.28" |
| V = 40 MPH |

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

**WEST SEGMENT 3**
**TRACK**
**PLAN AND PROFILE**
**STA 2373+50 TO STA 2378+50**

DISCIPLINE: TRACK

SHEET NAME: W3-TRK-PRF - 007

SHEET 11 OF 49

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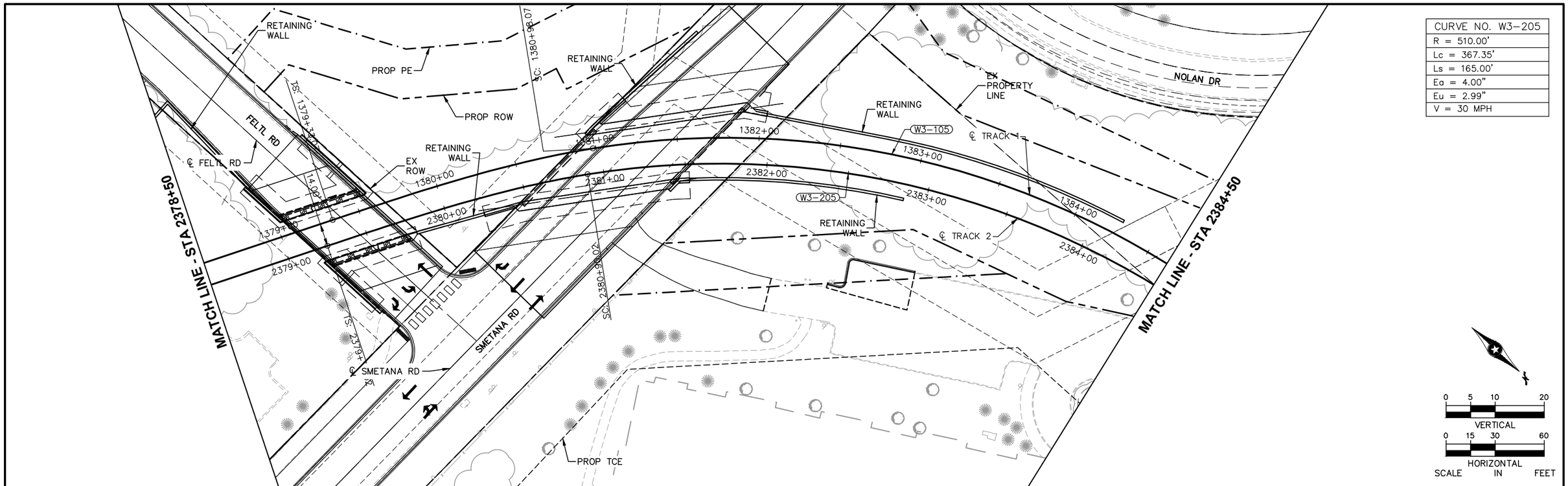


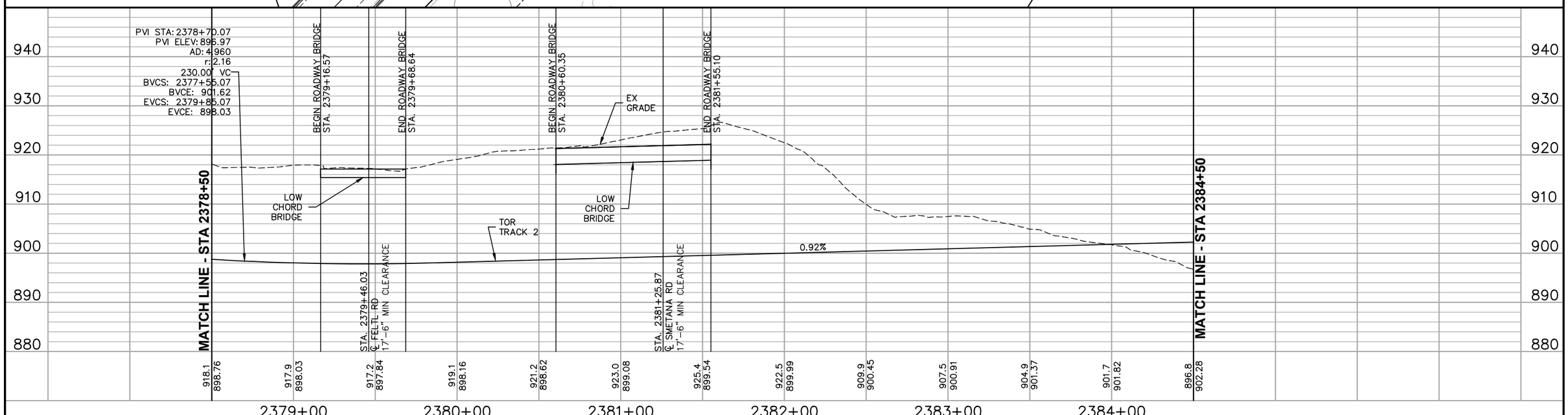


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MUNICIPAL CONSENT

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

**WEST SEGMENT 3**
**TRACK**
**PLAN AND PROFILE**
**STA 2378+50 TO STA 2384+50**

DISCIPLINE: TRACK

SHEET NAME: W3-TRK-PRF - 008

SHEET 12 OF 49

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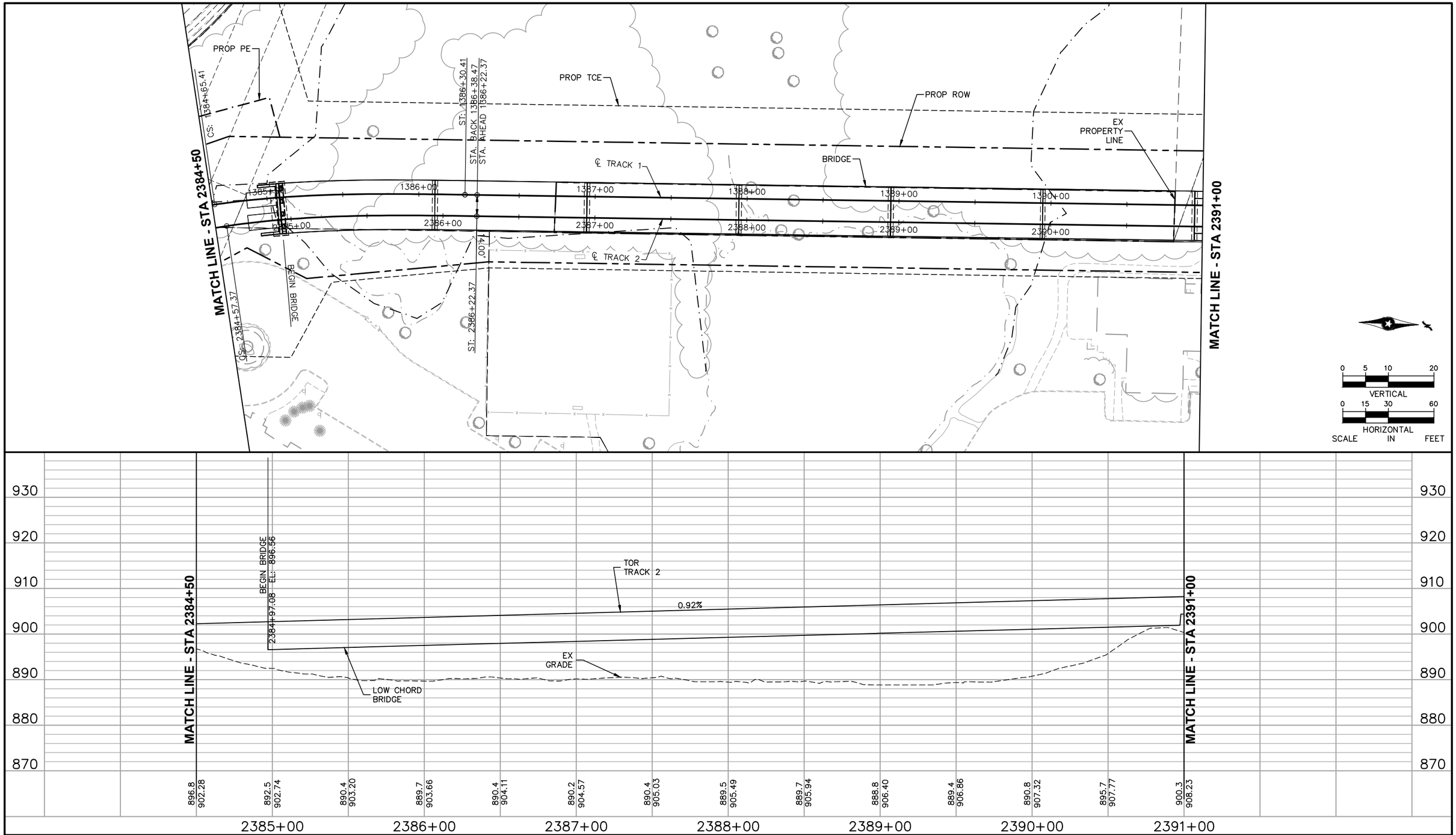


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MUNICIPAL CONSENT

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

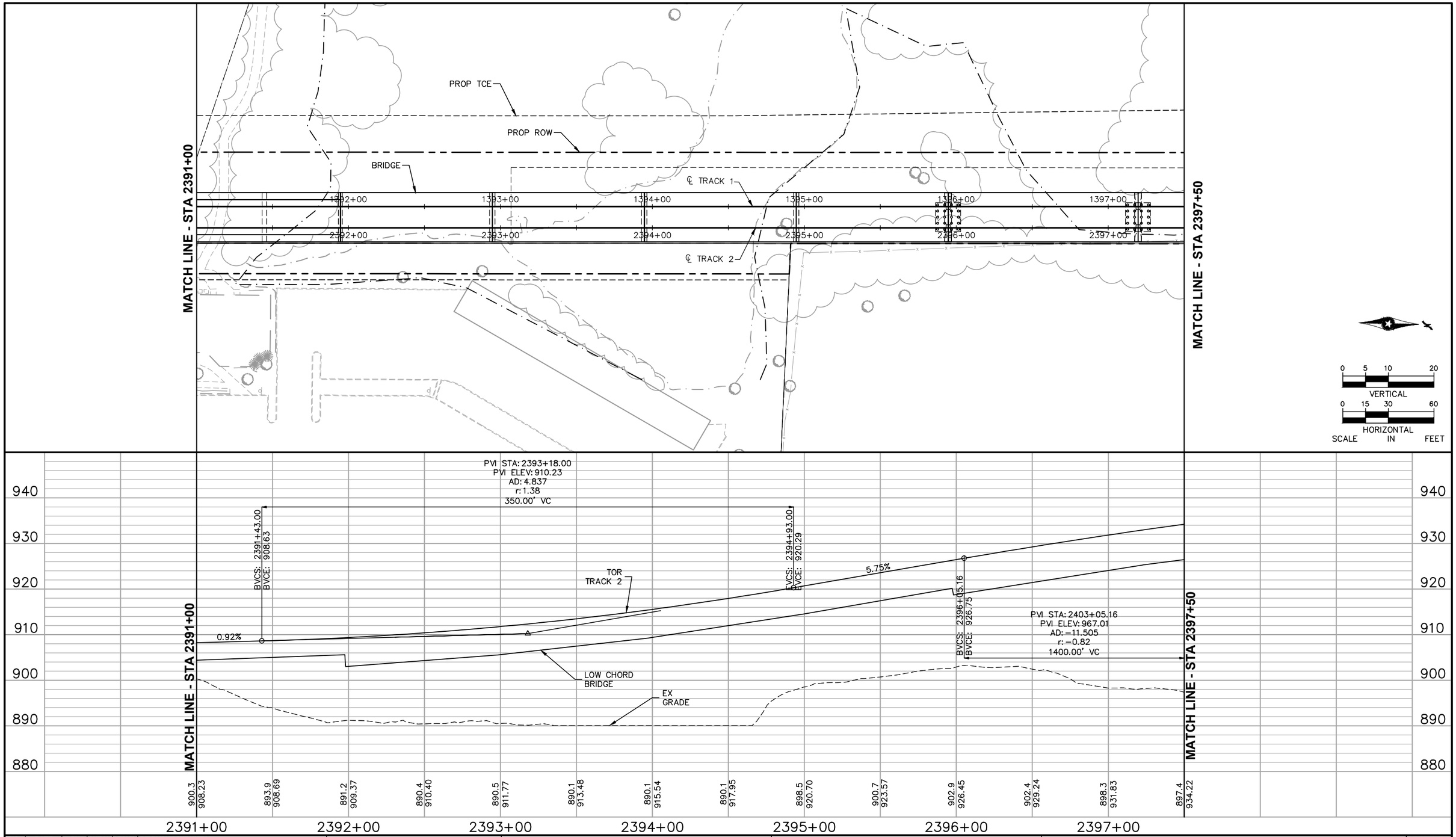
**WEST SEGMENT 3**
**TRACK**
**PLAN AND PROFILE**
**STA 2384+50 TO STA 2391+00**

DISCIPLINE: TRACK

SHEET NAME: W3-TRK-PRF - 009

SHEET 13 OF 49

Jul, 21 2015 04:33 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS MC\TRACK\W3-TRK-PRF-MC.dwg By: Konenjl

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MUNICIPAL CONSENT

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

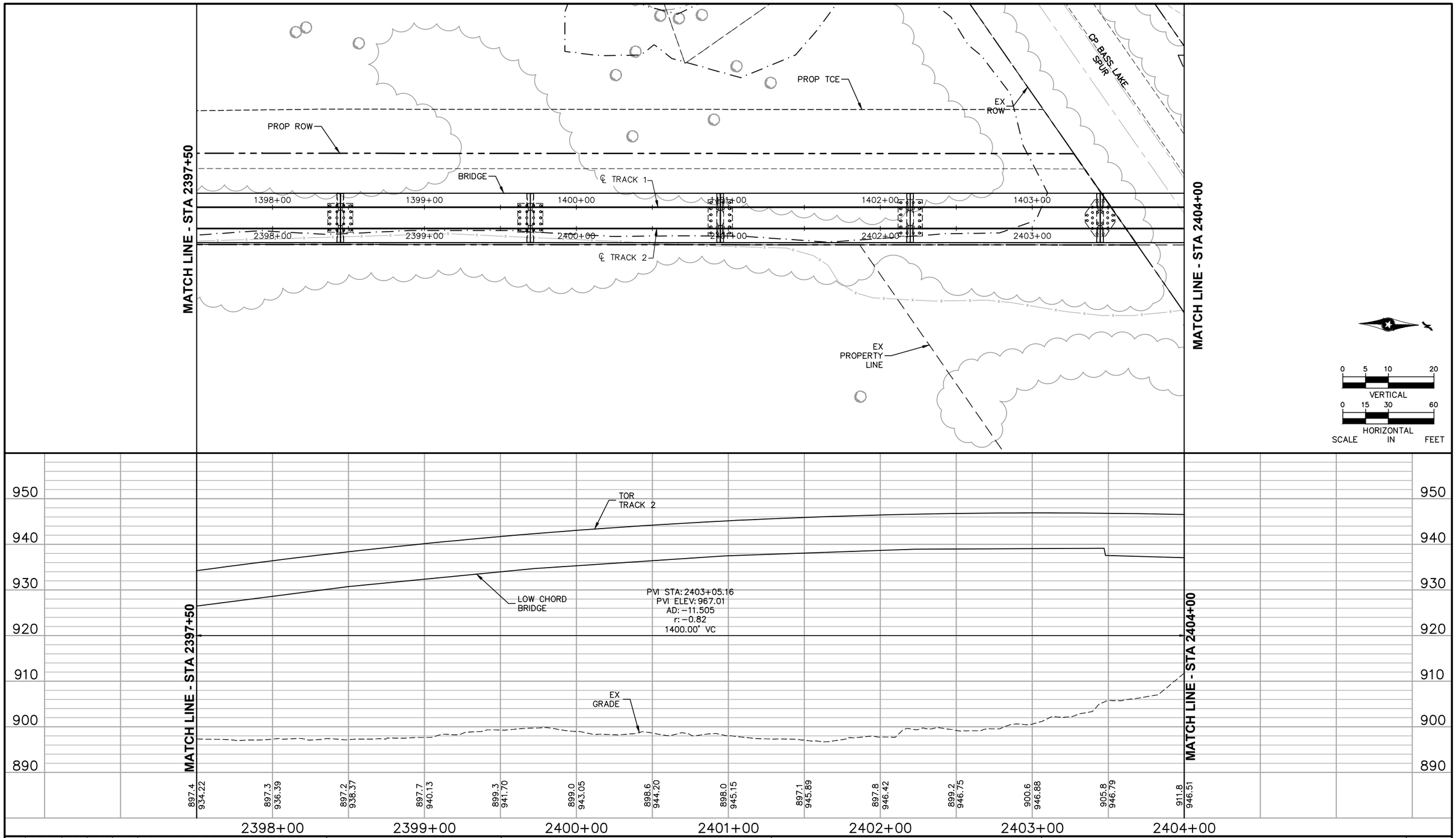
**WEST SEGMENT 3**
**TRACK**
**PLAN AND PROFILE**
**STA 2391+00 TO STA 2397+50**

DISCIPLINE: TRACK

SHEET NAME: W3-TRK-PRF - 010

SHEET 14 OF 49

Jul. 21 2015 04:48 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS MC\TRACK\W3-TRK-PRF-MC.dwg By: Konenj




| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

**WEST SEGMENT 3**
**TRACK**
**PLAN AND PROFILE**
**STA 2397+50 TO STA 2404+00**

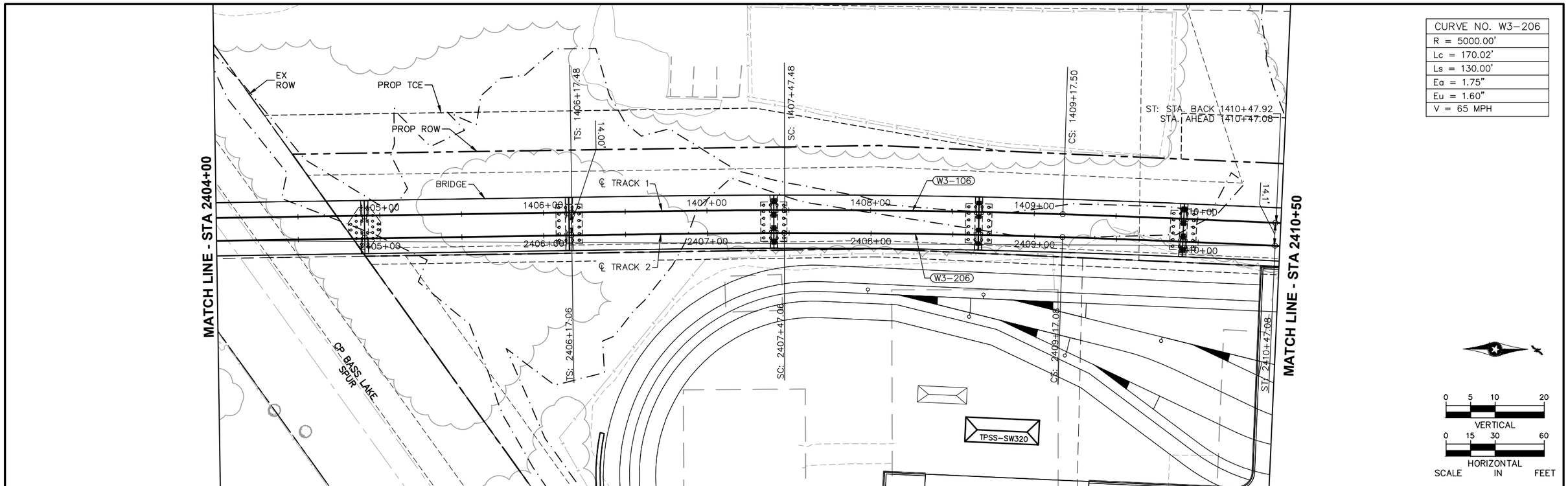
DISCIPLINE: TRACK

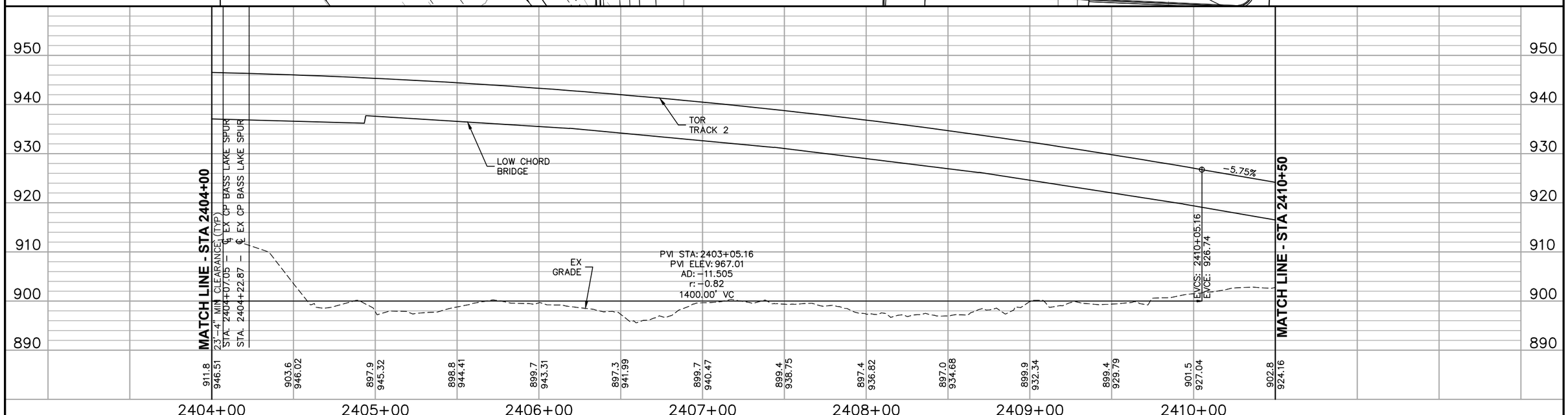
SHEET NAME: W3-TRK-PRF - 011

SHEET 15 OF 49

Jul, 21 2015 04:35 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS MC\TRACK\W3-TRK-PRF-MC.dwg By: Konenj

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

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MUNICIPAL CONSENT

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

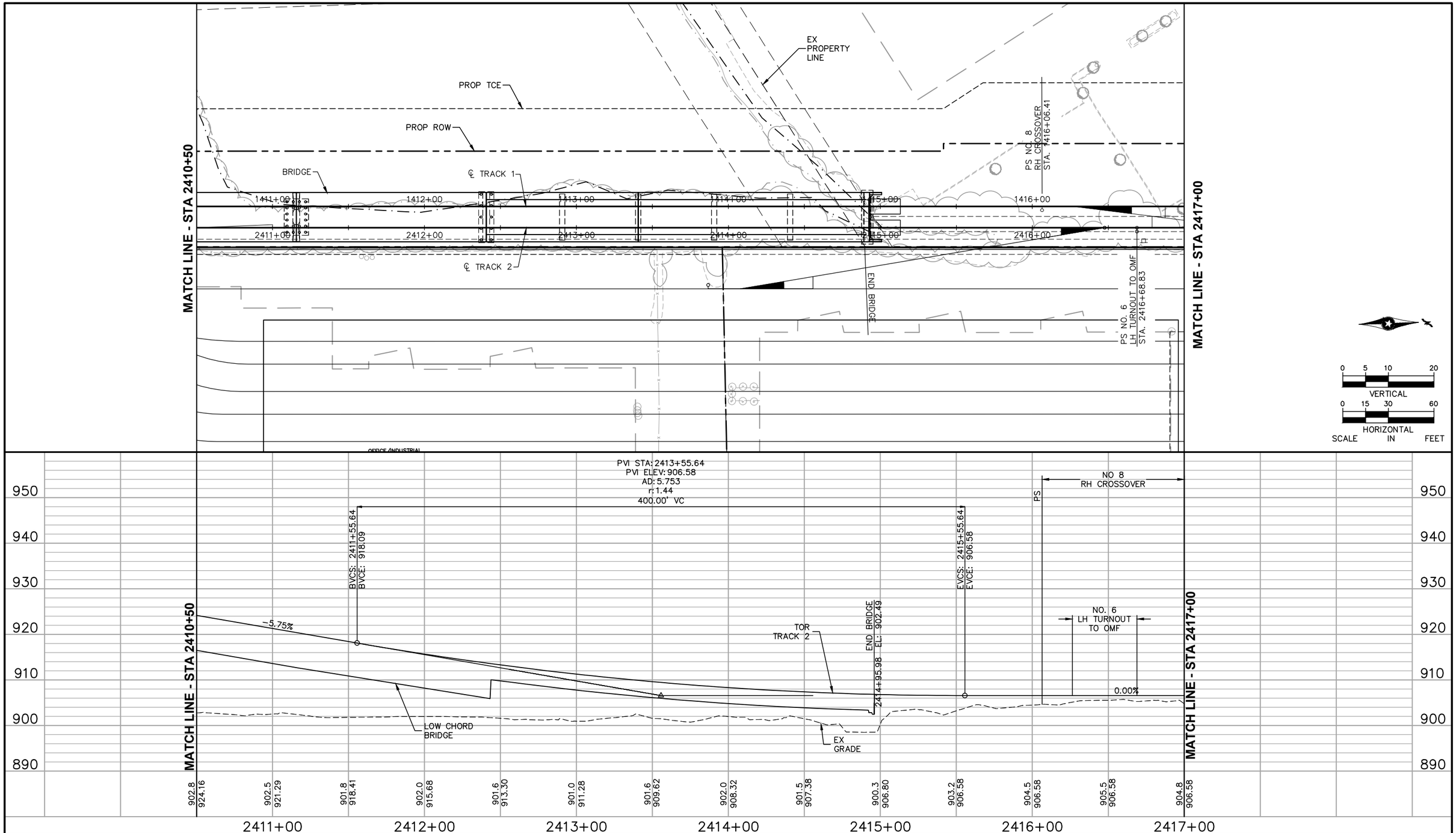
# WEST SEGMENT 3
# TRACK
# PLAN AND PROFILE
# STA 2404+00 TO STA 2410+50

DISCIPLINE: TRACK

SHEET NAME: W3-TRK-PRF - 012

SHEET 16 OF 49

Jul, 21 2015 04:36 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS MC\TRACK\W3-TRK-PRF-MC.dwg By: Konenjl




| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
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MUNICIPAL CONSENT

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

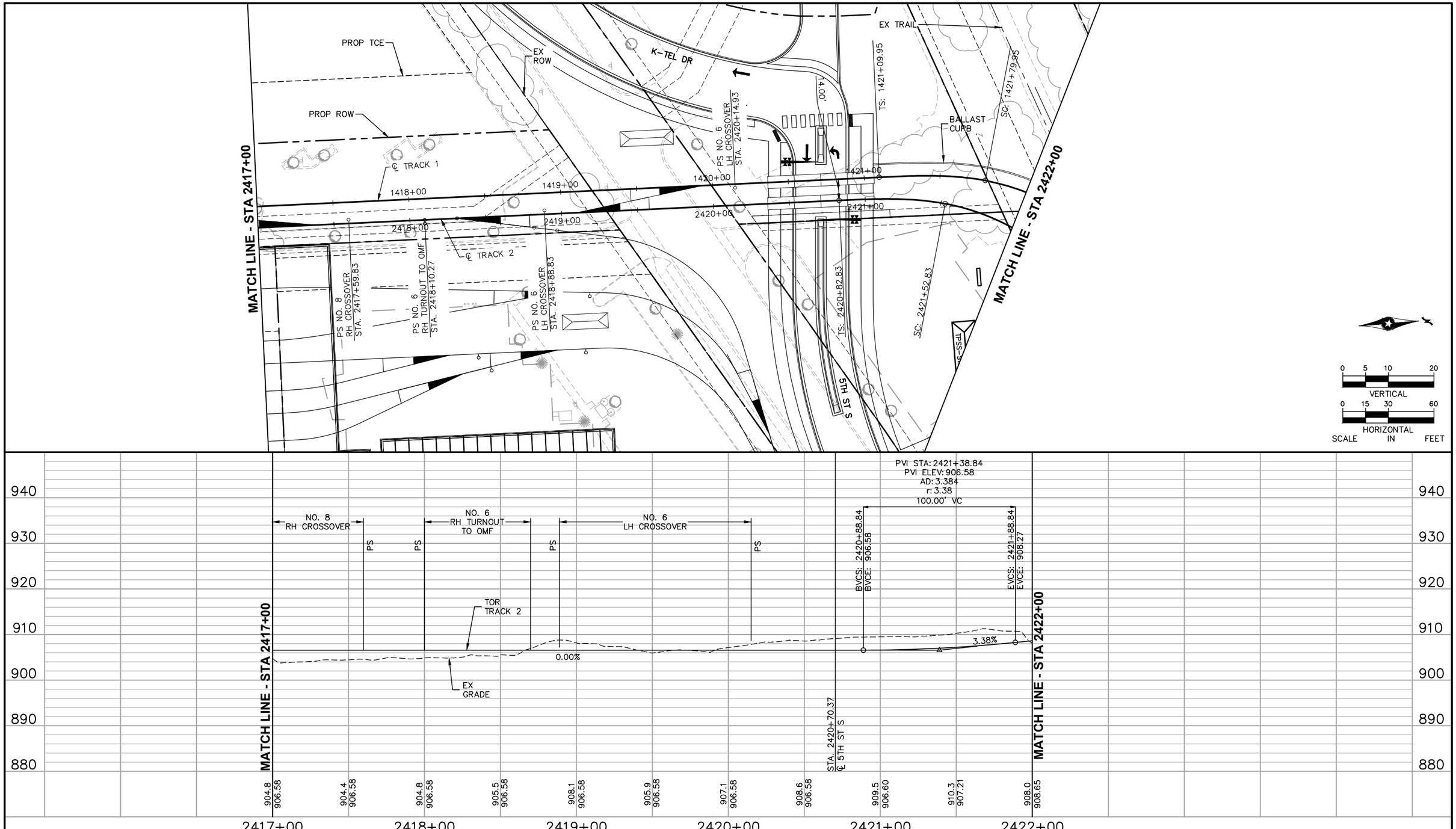
# WEST SEGMENT 3
# TRACK
# PLAN AND PROFILE
# STA 2410+50 TO STA 2417+00

DISCIPLINE: TRACK

SHEET NAME: W3-TRK-PRF - 013

SHEET 17 OF 49

Jul, 21 2015 04:37 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS MC\TRACK\W3-TRK-PRF-MC.dwg By: Konenj




| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
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MUNICIPAL CONSENT

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

**WEST SEGMENT 3**
**TRACK**
**PLAN AND PROFILE**
**STA 2417+00 TO STA 2422+00**

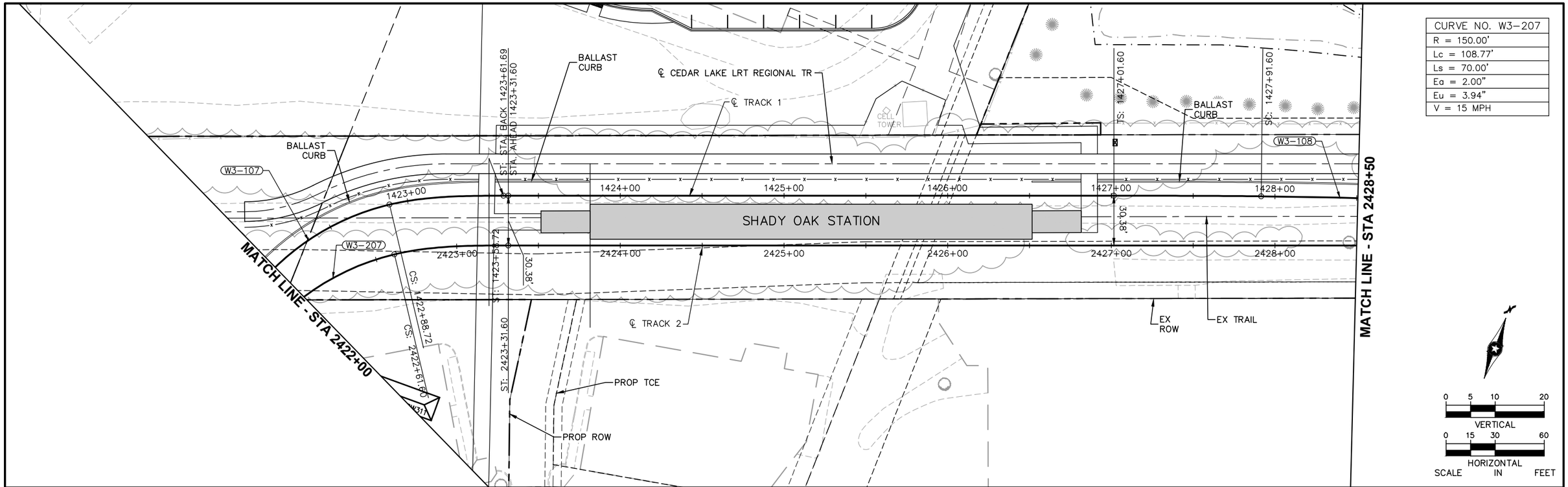
DISCIPLINE: TRACK

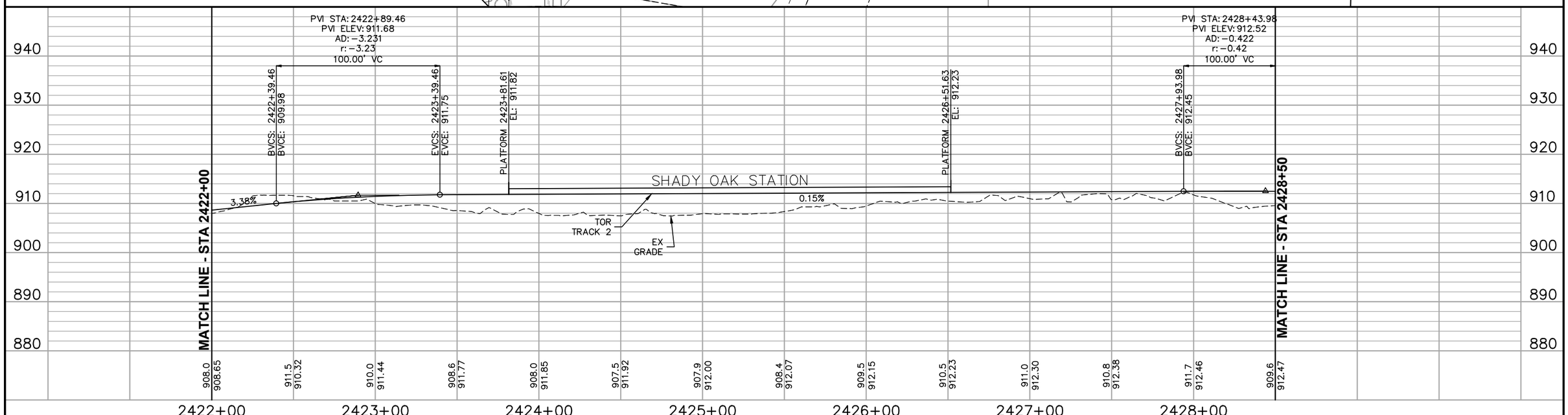
SHEET NAME: W3-TRK-PRF - 014

SHEET 18 OF 49

Jul. 21 2015 04:38 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS MC\TRACK\W3-TRK-PRF-MC.dwg By: Konenj

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

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

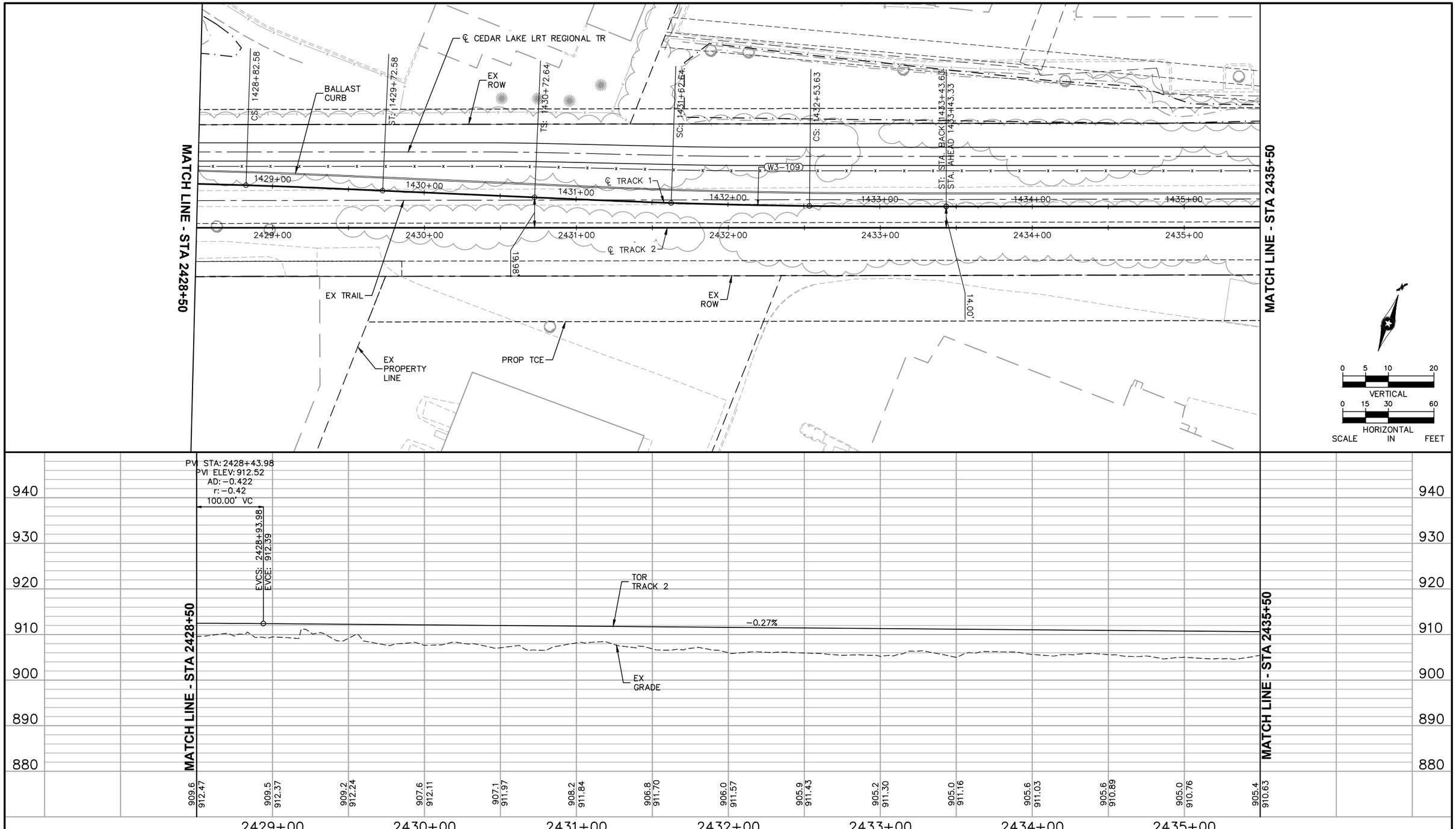
**WEST SEGMENT 3**
**TRACK**
**PLAN AND PROFILE**
**STA 2422+00 TO STA 2428+50**

DISCIPLINE: TRACK

SHEET NAME: W3-TRK-PRF - 015

SHEET 19 OF 49

Jul, 22 2015 12:23 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS MC\TRACK\W3-TRK-PRF-MC.dwg By: Konenj

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

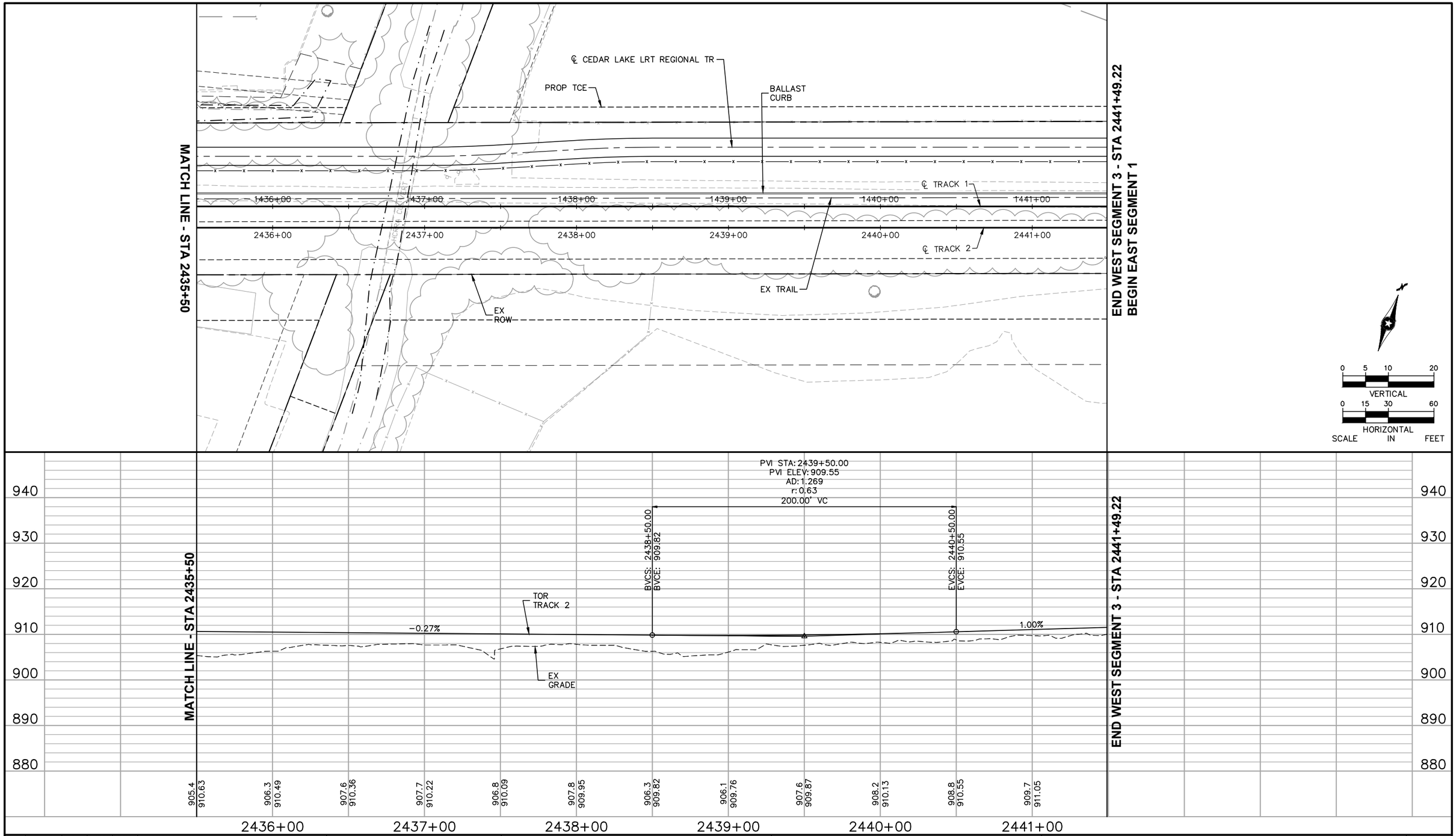
**WEST SEGMENT 3**
**TRACK**
**PLAN AND PROFILE**
**STA 2428+50 TO STA 2435+50**

DISCIPLINE: TRACK

SHEET NAME: W3-TRK-PRF - 016

SHEET 20 OF 49

Jul, 22 2015 12:23 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS MC\TRACK\W3-TRK-PRF-MC.dwg By: Konenj

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

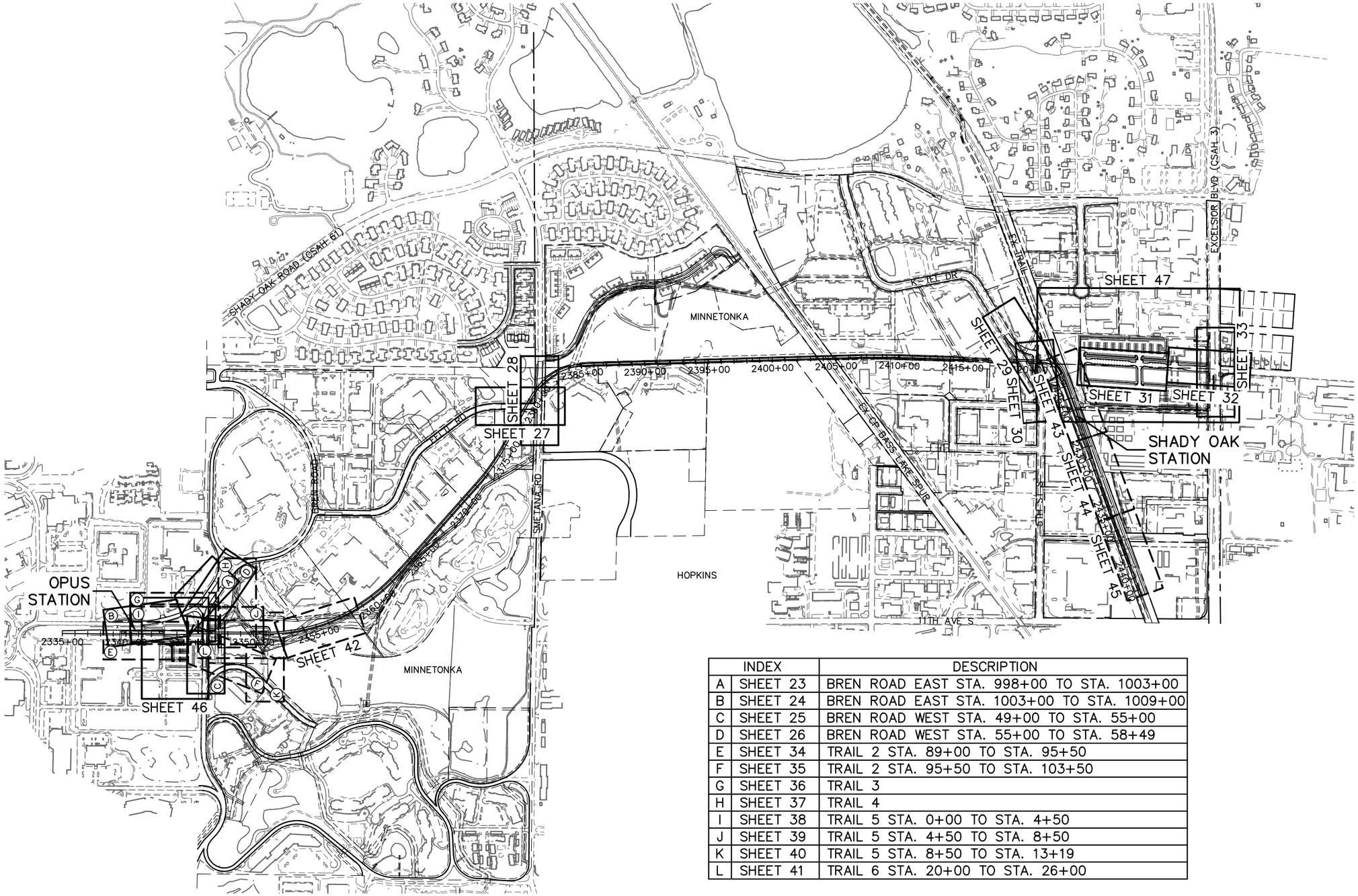
**WEST SEGMENT 3**
**TRACK**
**PLAN AND PROFILE**
**STA 2435+50 TO STA 2441+49.22**

DISCIPLINE: TRACK

SHEET NAME: W3-TRK-PRF - 017

SHEET 21 OF 49

Jul, 22 2015 12:24 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS MC\TRACK\W3-TRK-PRF-MC.dwg By: Konenjl




| INDEX | | DESCRIPTION |
|---|---|---|
| A | SHEET 23 | BREN ROAD EAST STA. 998+00 TO STA. 1003+00 |
| B | SHEET 24 | BREN ROAD EAST STA. 1003+00 TO STA. 1009+00 |
| C | SHEET 25 | BREN ROAD WEST STA. 49+00 TO STA. 55+00 |
| D | SHEET 26 | BREN ROAD WEST STA. 55+00 TO STA. 58+49 |
| E | SHEET 34 | TRAIL 2 STA. 89+00 TO STA. 95+50 |
| F | SHEET 35 | TRAIL 2 STA. 95+50 TO STA. 103+50 |
| G | SHEET 36 | TRAIL 3 |
| H | SHEET 37 | TRAIL 4 |
| I | SHEET 38 | TRAIL 5 STA. 0+00 TO STA. 4+50 |
| J | SHEET 39 | TRAIL 5 STA. 4+50 TO STA. 8+50 |
| K | SHEET 40 | TRAIL 5 STA. 8+50 TO STA. 13+19 |
| L | SHEET 41 | TRAIL 6 STA. 20+00 TO STA. 26+00 |

0 200 400 800
HORIZONTAL SCALE IN FEET

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METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

MUNICIPAL CONSENT

**WEST SEGMENT 3**
**CIVIL**
**SHEET LAYOUT INDEX**

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

SHEET 22 OF 49

Jul, 21 2015 05:18 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-IDX.dwg By: msobiech

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

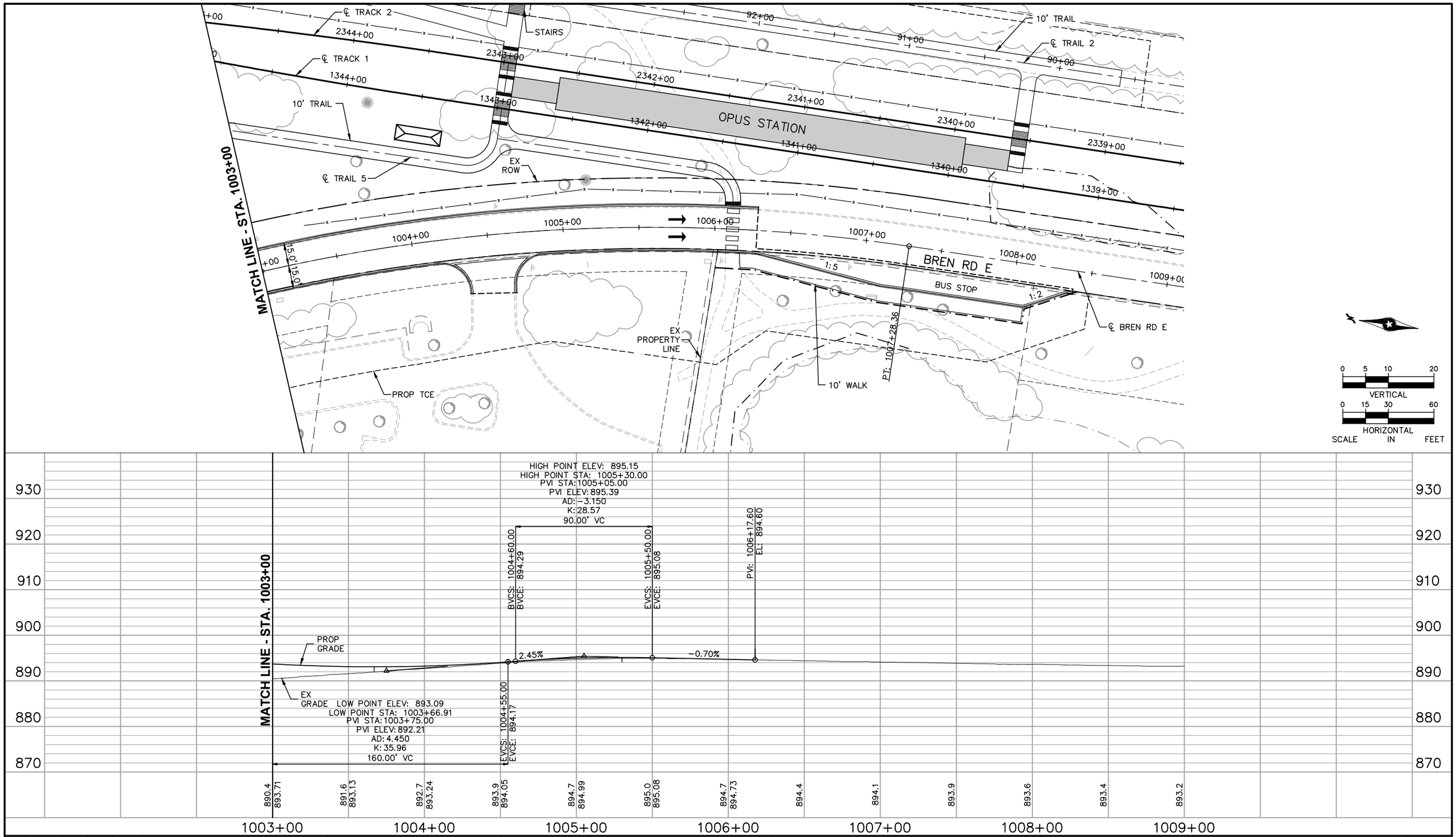
# WEST SEGMENT 3
# BREN ROAD EAST
# PLAN AND PROFILE
# STA. 998+00 TO STA. 1003+00

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-001

SHEET 23 OF 49

Jul, 21 2015 05:45 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: msobiech




| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

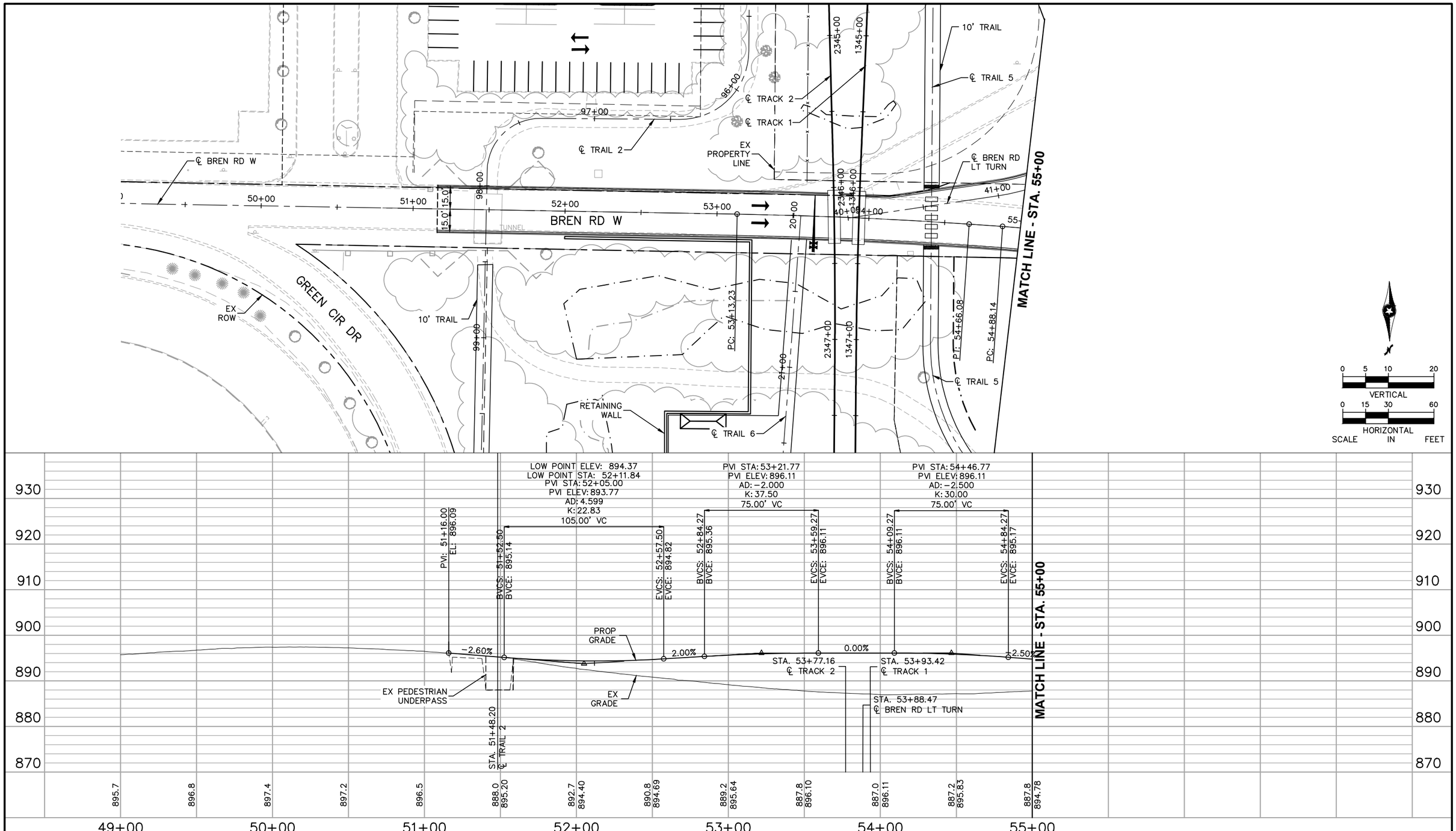
**WEST SEGMENT 3**
**BREN ROAD EAST**
**PLAN AND PROFILE**
**STA. 1003+00 TO STA. 1009+00**

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-002

SHEET 24 OF 49

Jul, 21 2015 05:20 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: msobiech

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SOUTHWEST Green Line LRT Extension

**WEST SEGMENT 3**
**BREN ROAD WEST**
**PLAN AND PROFILE**
**STA. 49+00 TO STA. 55+00**

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-003

SHEET 25 OF 49

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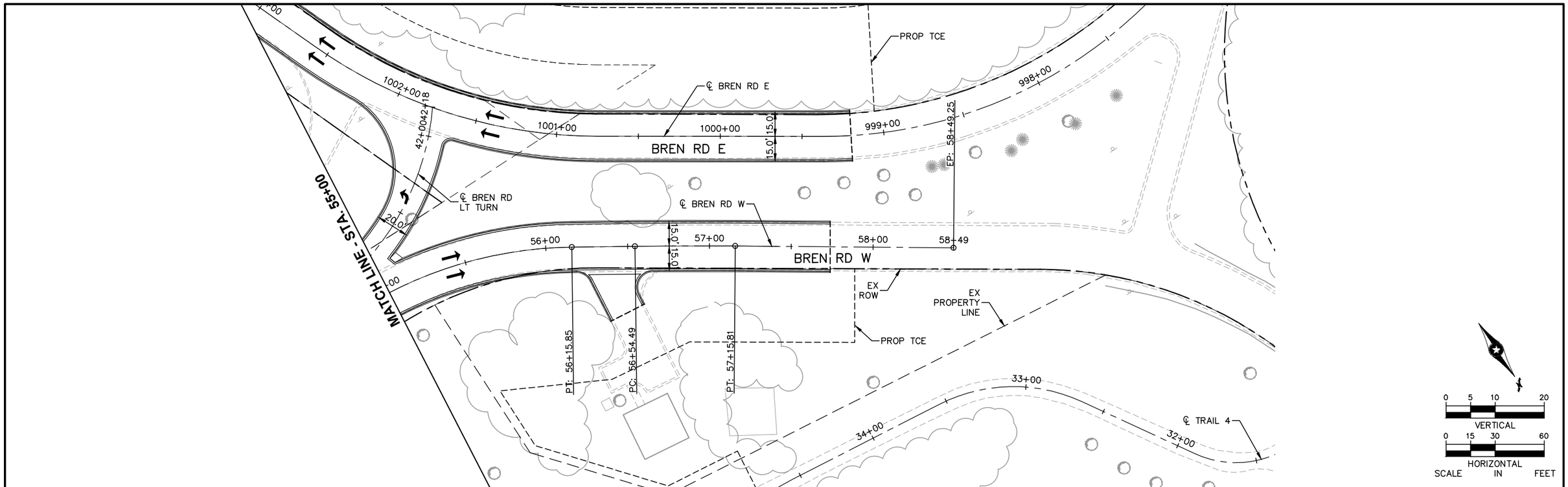


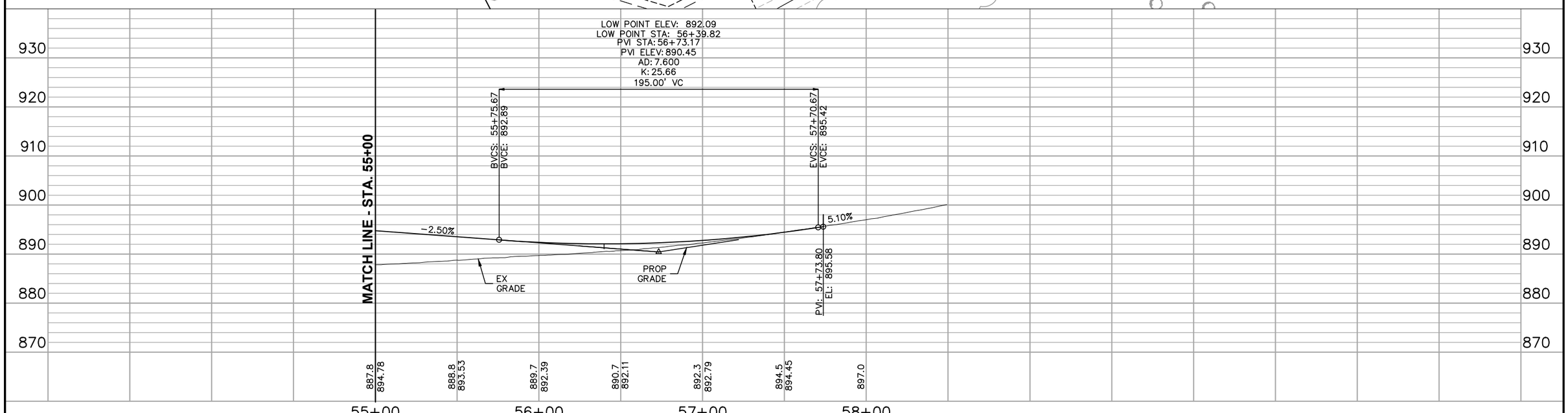


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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

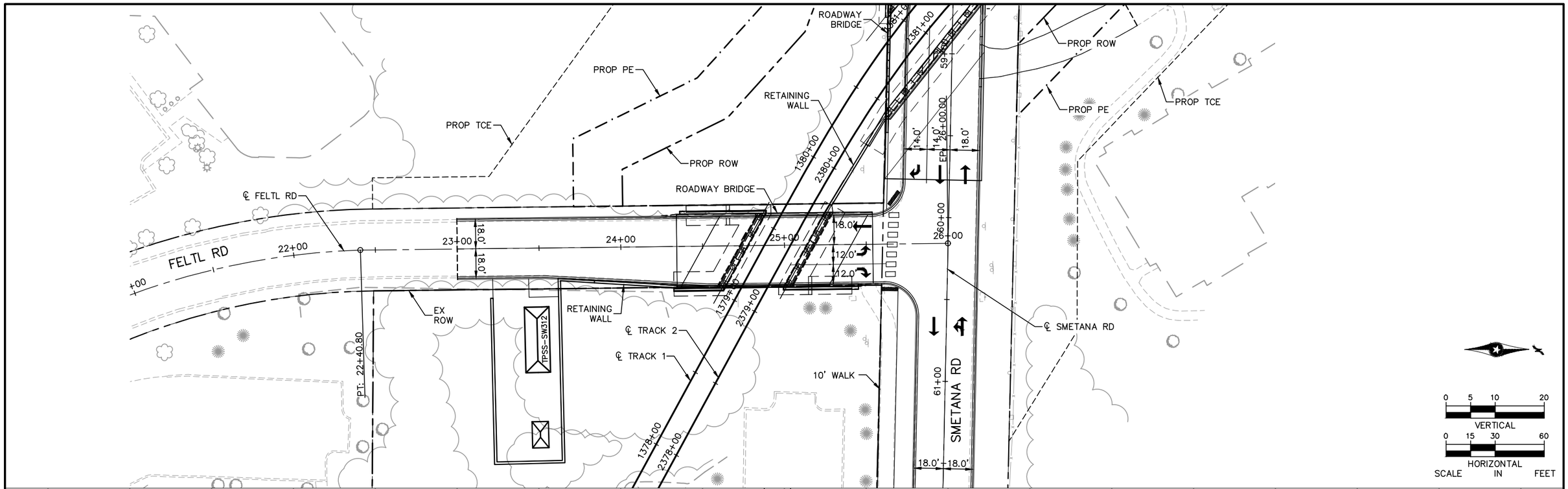
**WEST SEGMENT 3**
**BREN ROAD WEST**
**PLAN AND PROFILE**
**STA. 55+00 TO STA. 58+49**

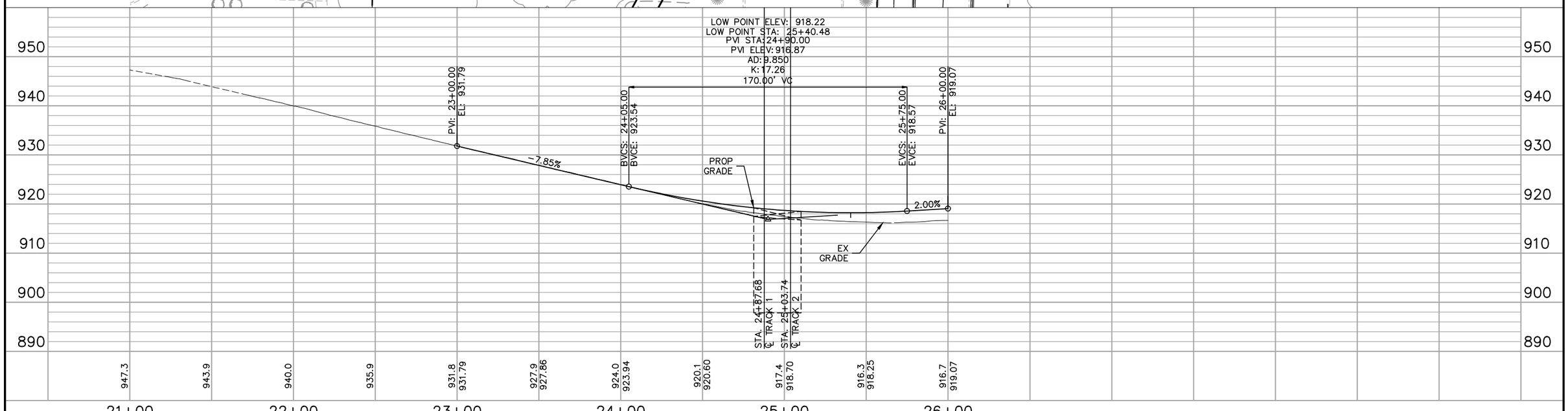
DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-004

SHEET 26 OF 49

Jul, 21 2015 05:46 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: msobiech

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

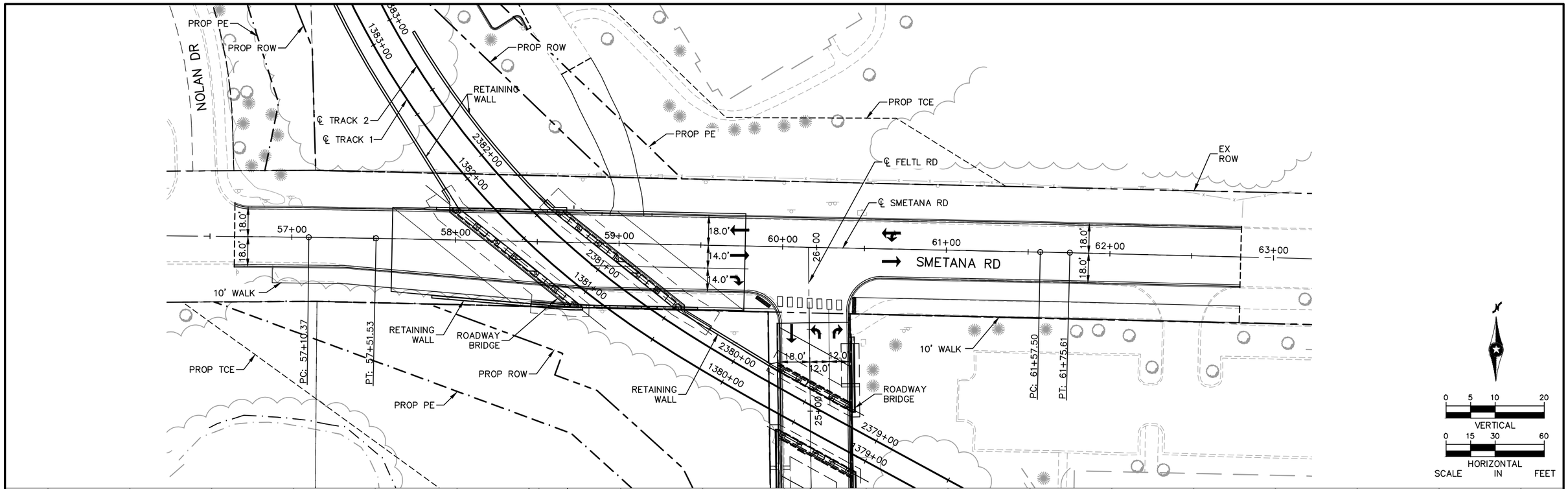
# WEST SEGMENT 3
# FELTL ROAD
# PLAN AND PROFILE
# STA. 21+00 TO STA. 26+00

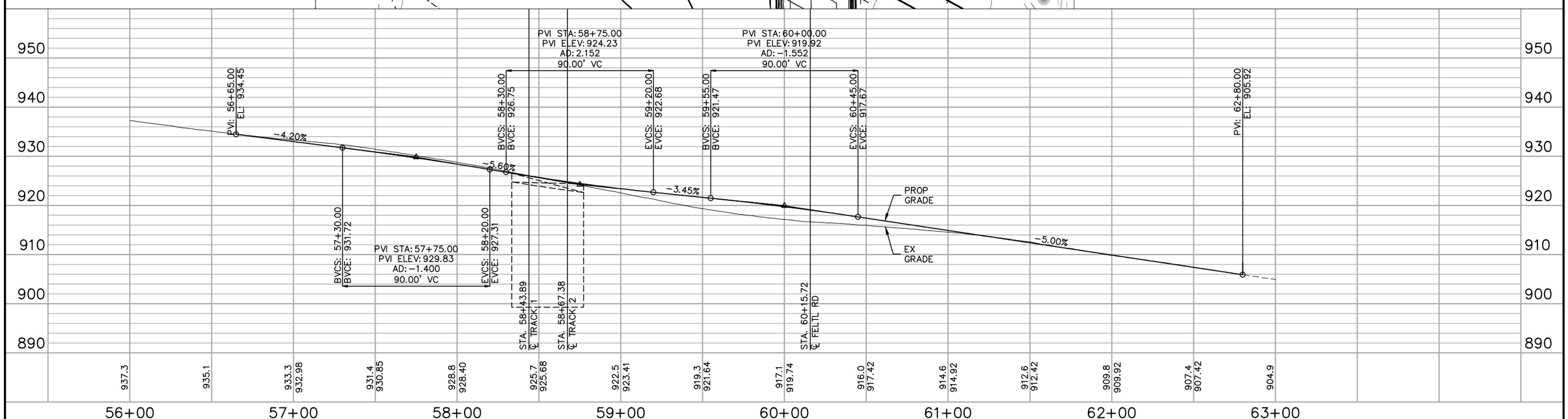
DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-005

SHEET 27 OF 49

Jul, 21 2015 05:22 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: msobiech

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

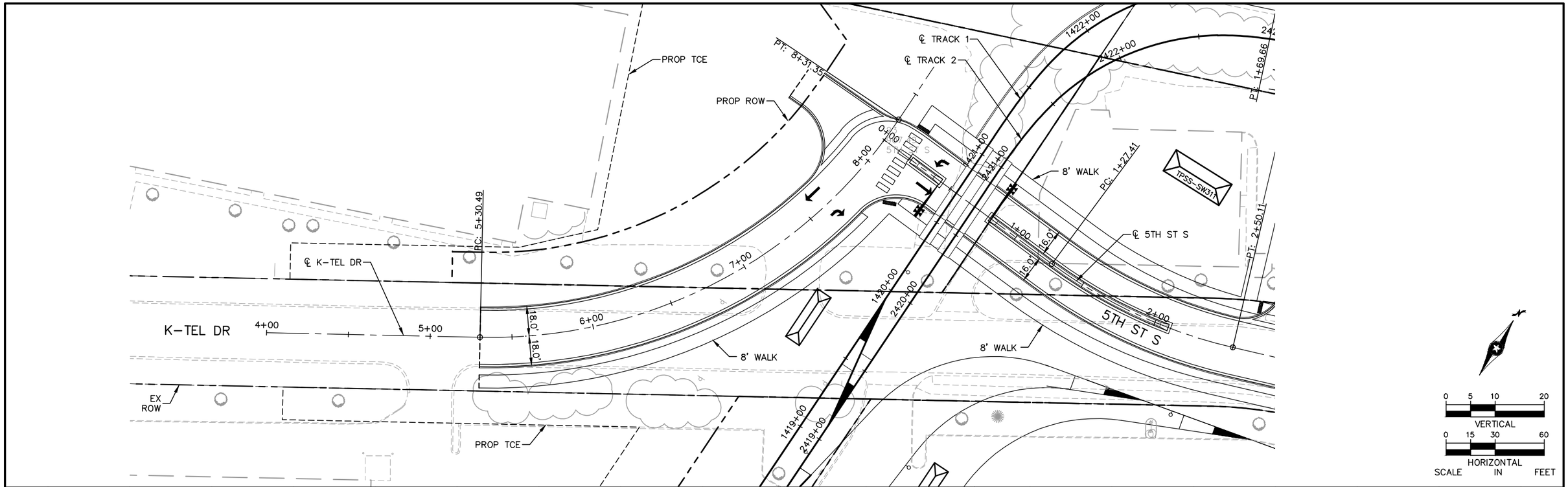
# WEST SEGMENT 3
# SMETANA ROAD
# PLAN AND PROFILE
# STA. 56+65 TO STA. 62+80

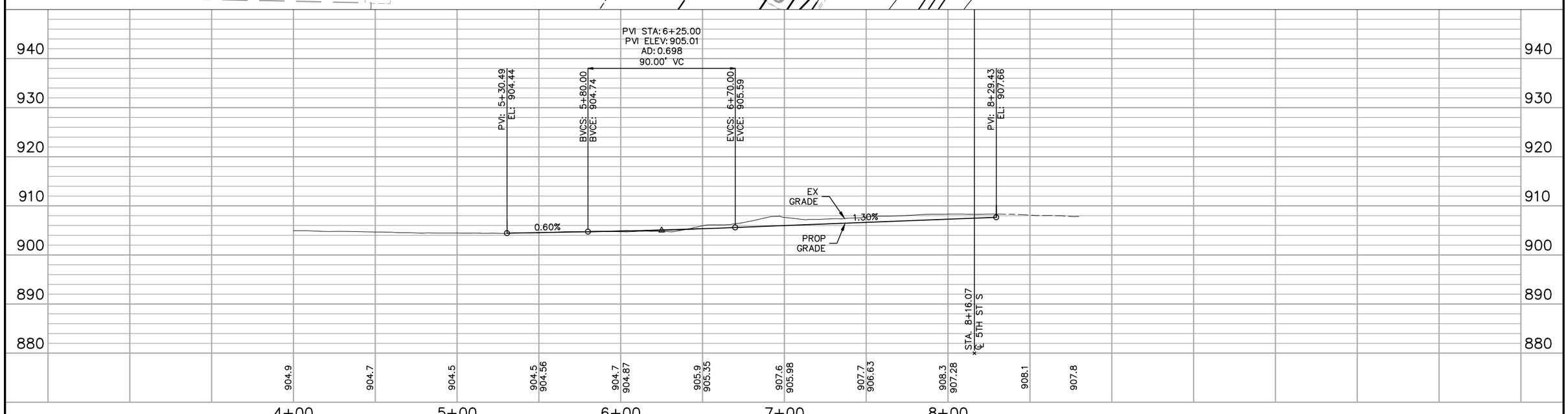
DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-006

SHEET 28 OF 49

Jul, 21 2015 05:22 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: msobiech

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SOUTHWEST Green Line LRT Extension

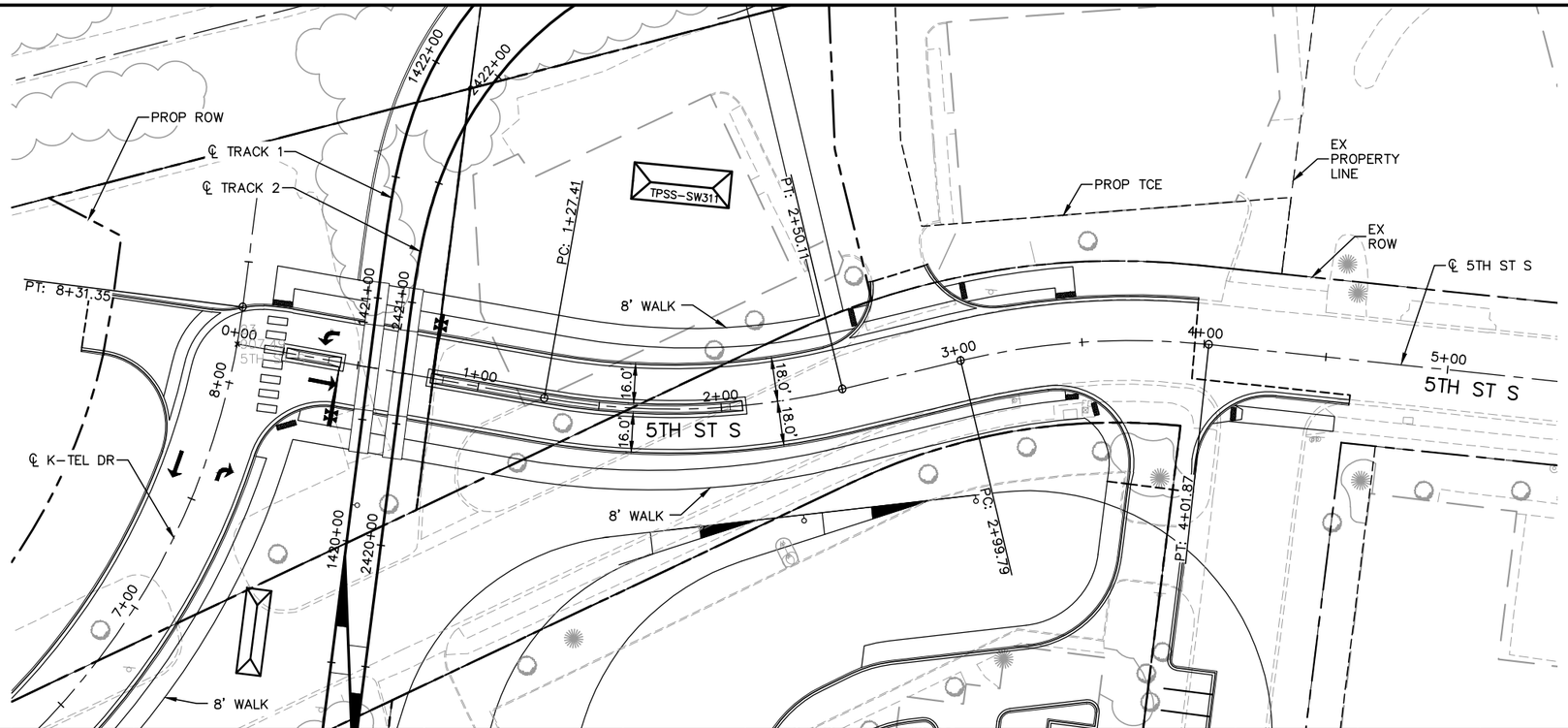
# WEST SEGMENT 3
# K-TEL DRIVE
# PLAN AND PROFILE
# STA. 5+13 TO STA. 8+29

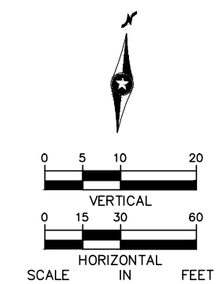
DISCIPLINE: CIVIL

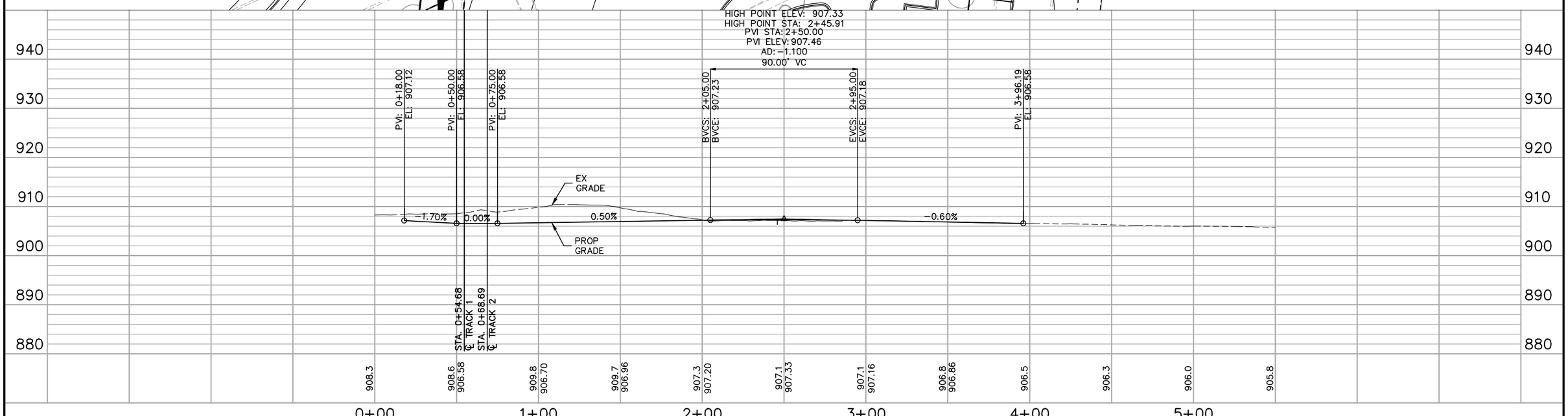
SHEET NAME: W3-CIV-PRF-007

SHEET 29 OF 49

Jul. 21 2015 05:23 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: msobiech

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

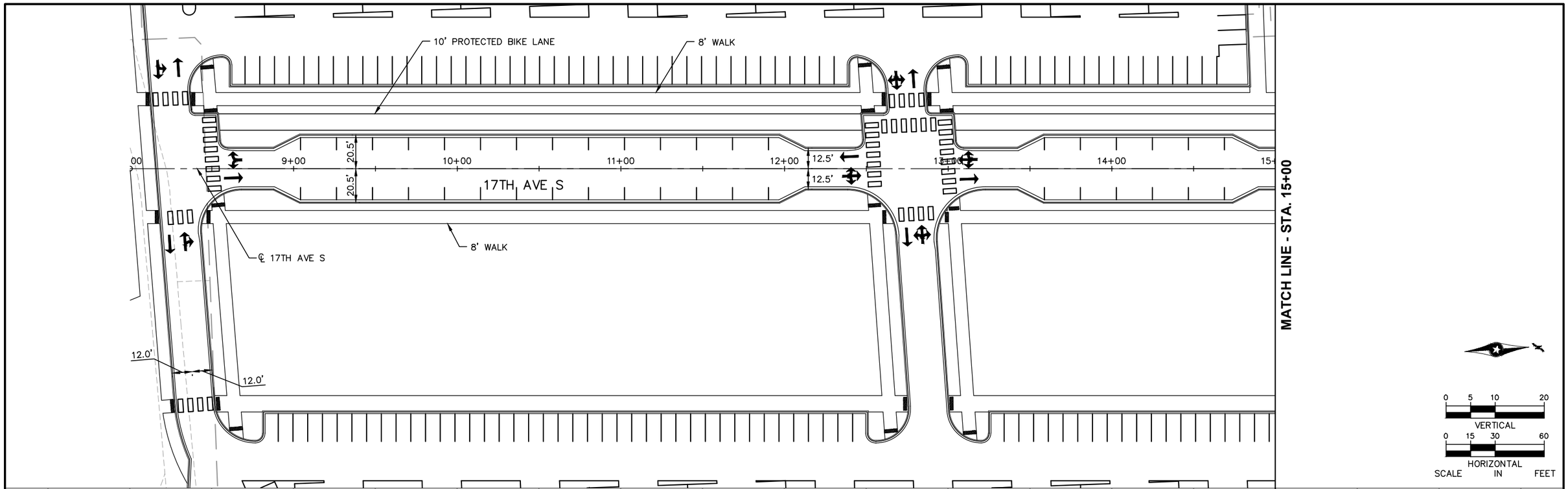
**WEST SEGMENT 3**
**5TH STREET SOUTH**
**PLAN AND PROFILE**
**STA. 0+00 TO STA. 5+50**

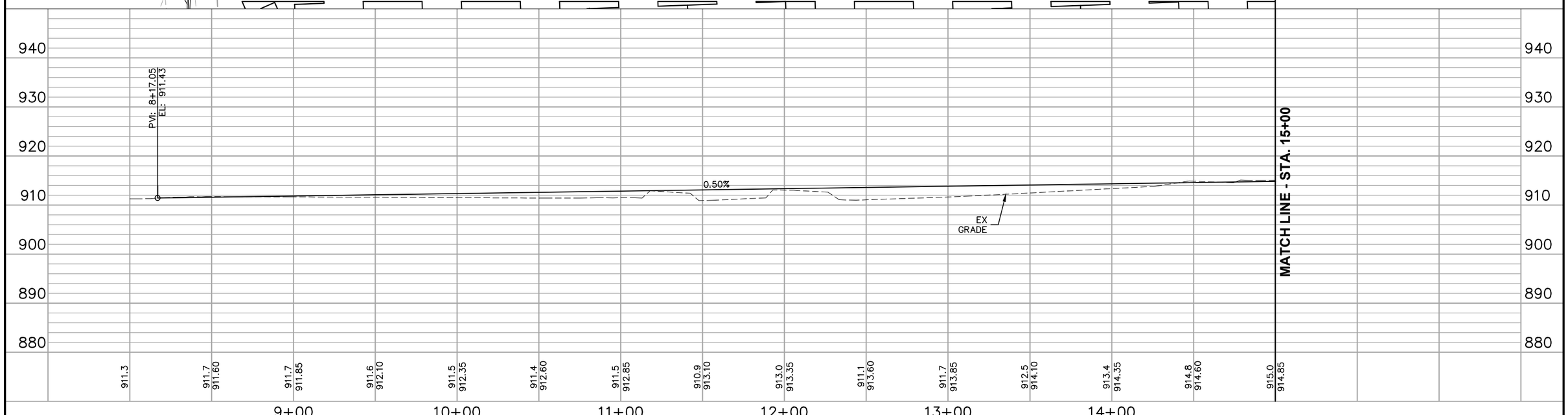
DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-008

SHEET 30 OF 49

Jul. 21 2015 05:23 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: msobiech

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

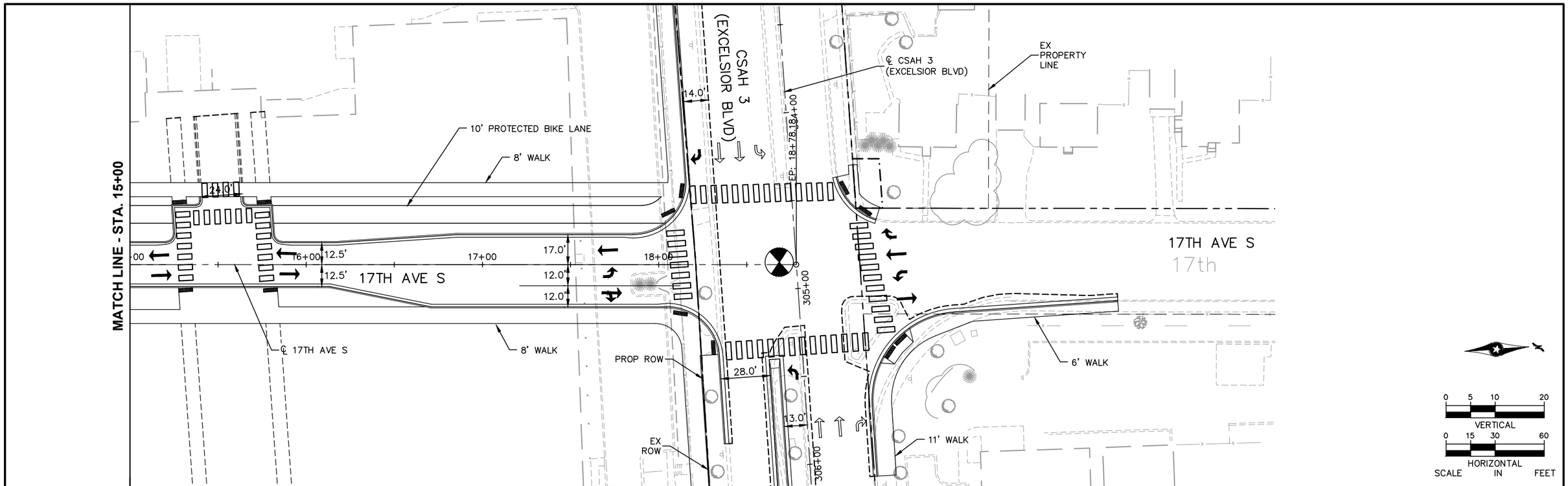
**WEST SEGMENT 3**
**17TH AVENUE SOUTH**
**PLAN AND PROFILE**
**STA. 8+00 TO STA. 15+00**

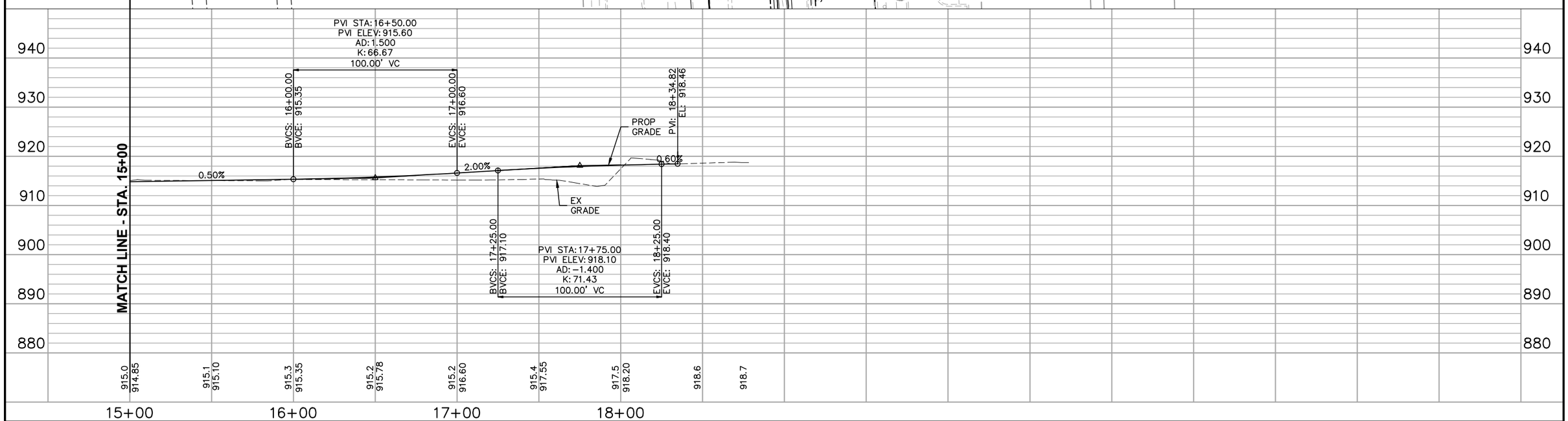
DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-009

SHEET 31 OF 49

Jul, 21 2015 05:24 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: msobiech

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

**WEST SEGMENT 3**
**17TH AVENUE SOUTH**
**PLAN AND PROFILE**
**STA. 15+00 TO STA. 18+78**

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-010

SHEET 32 OF 49

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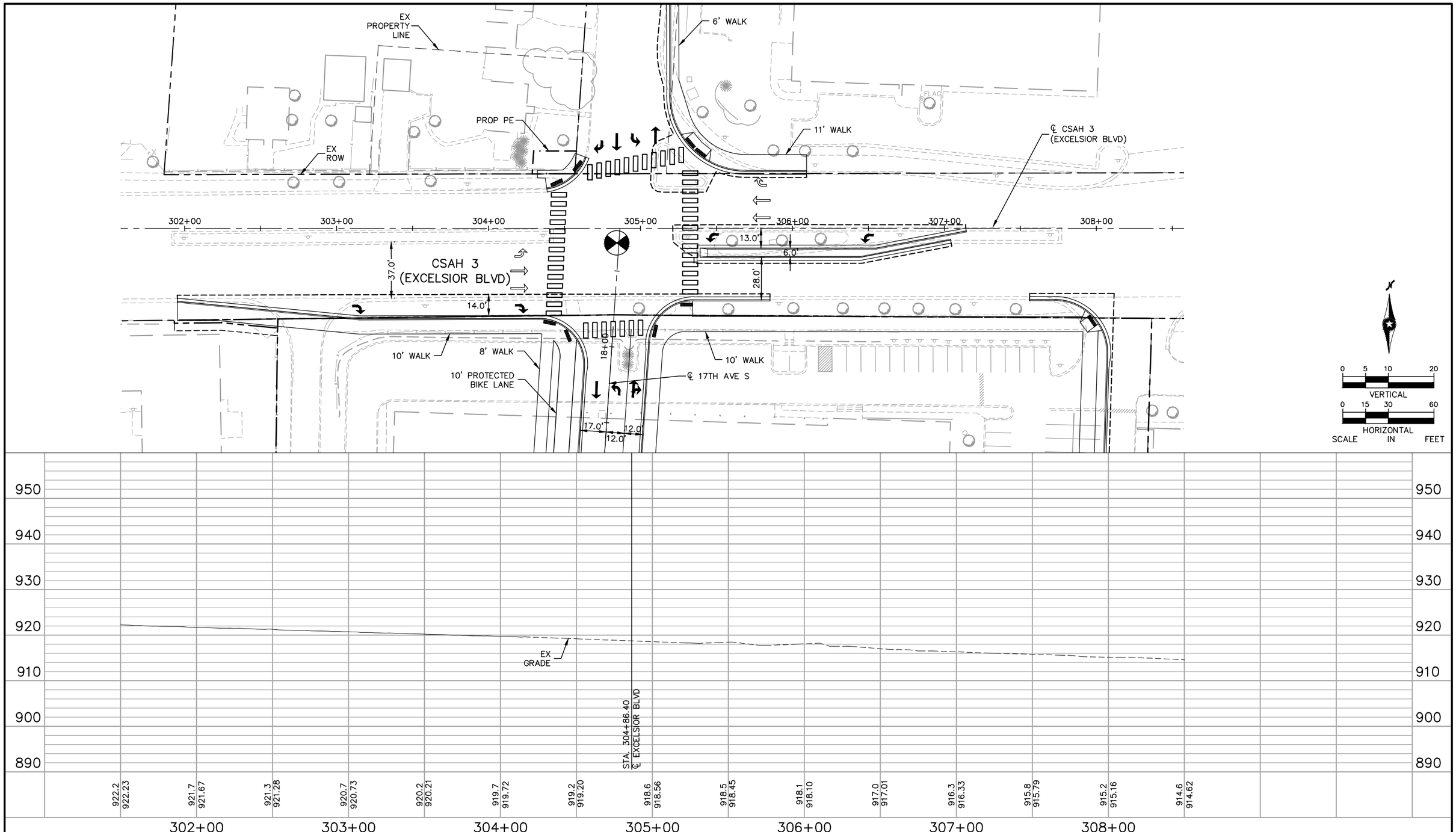


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SOUTHWEST Green Line LRT Extension

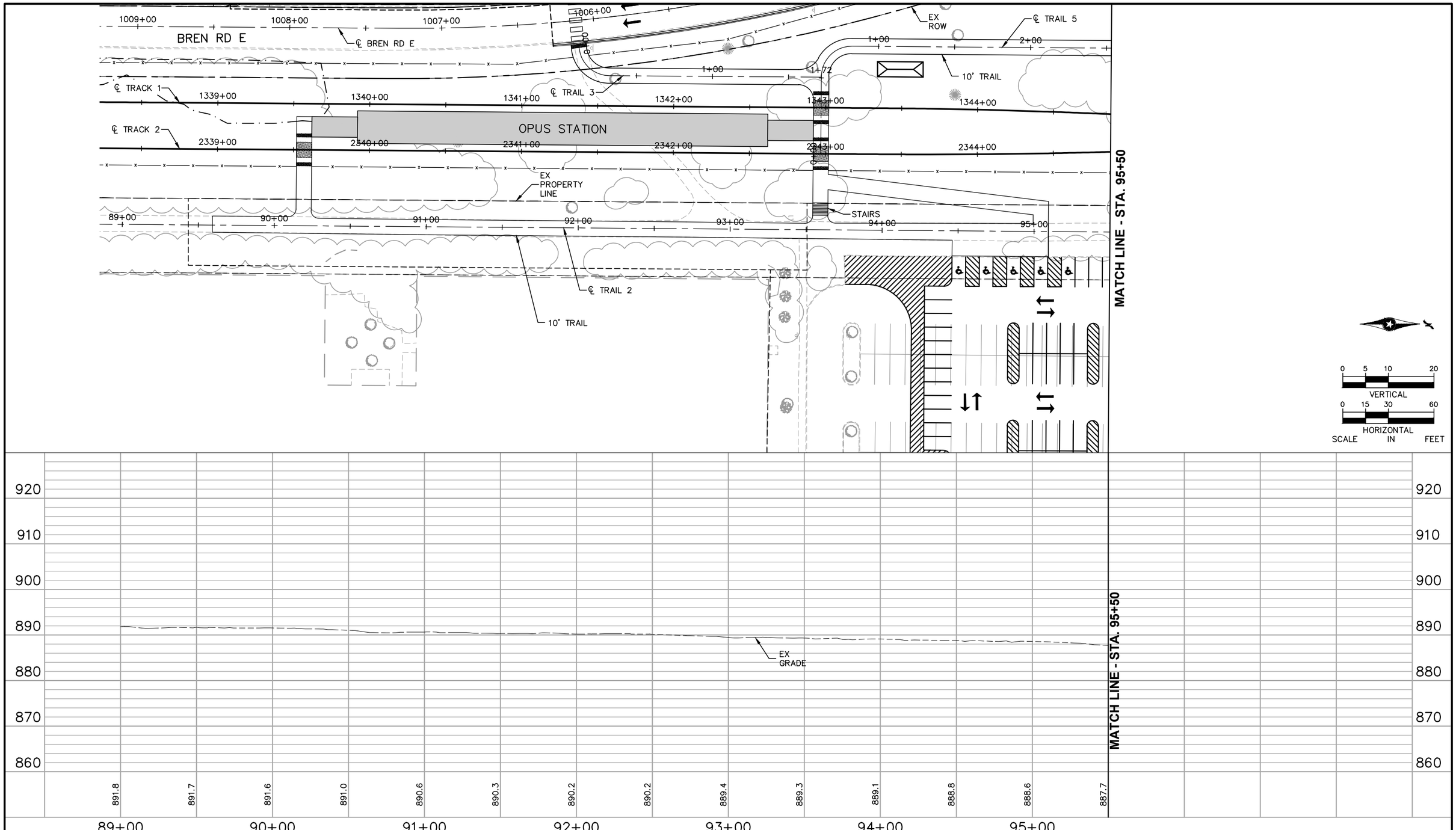
**WEST SEGMENT 3**
**EXCELSIOR BOULEVARD**
**PLAN AND PROFILE**
**STA. 301+50 TO STA. 308+50**

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-012

SHEET 33 OF 49

Jul, 21 2015 05:24 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: msobiech

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SOUTHWEST Green Line LRT Extension

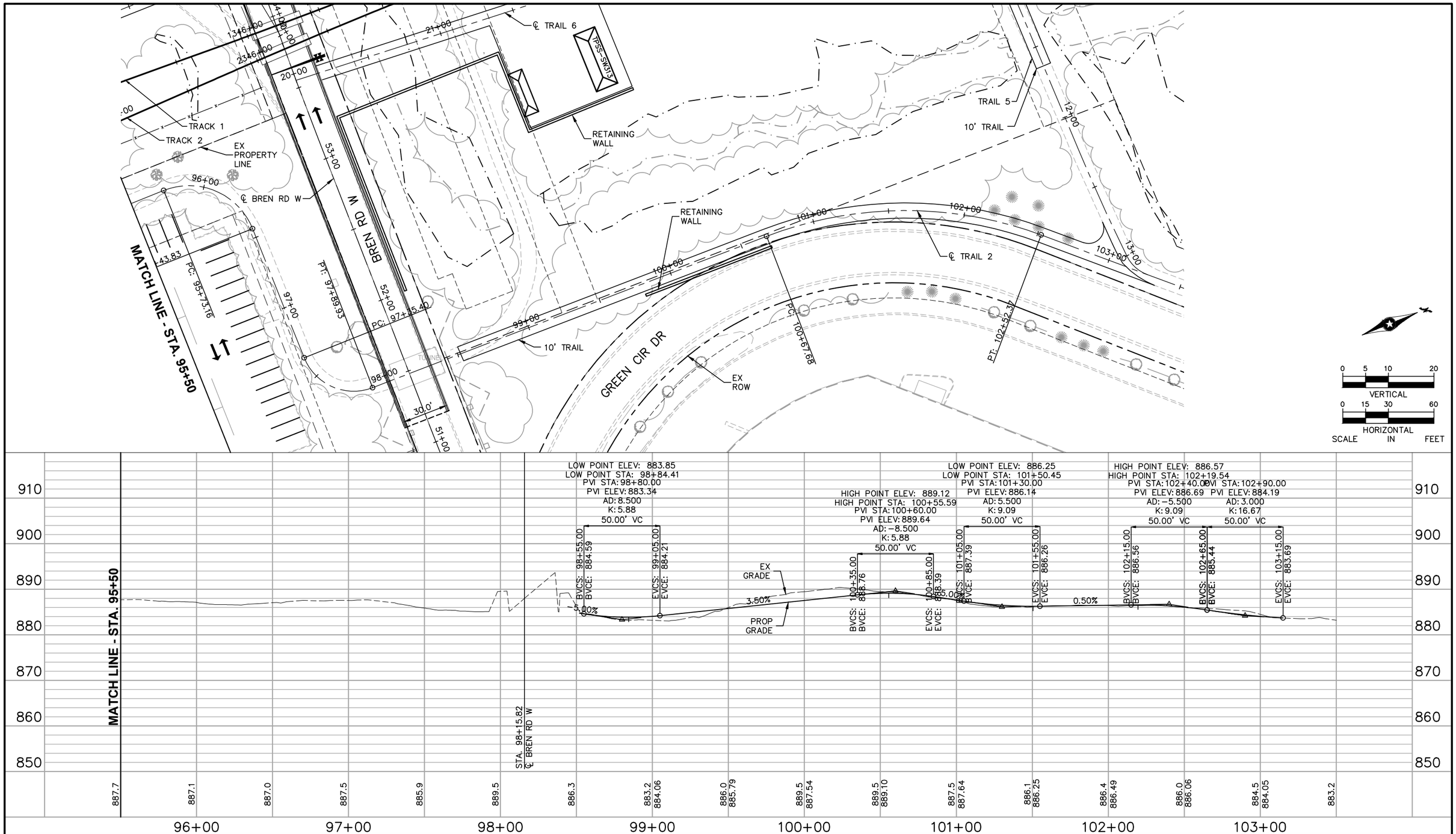
**WEST SEGMENT 3**
**TRAIL 2**
**PLAN AND PROFILE**
**STA. 89+00 TO STA. 95+50**

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TRL-001

SHEET 34 OF 49

Jul, 21 2015 05:26 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TRL.dwg By: msobiech

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SOUTHWEST Green Line LRT Extension

**WEST SEGMENT 3**
**TRAIL 2**
**PLAN AND PROFILE**
**STA. 95+50 TO STA. 103+50**

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TRL-002

SHEET 35 OF 49

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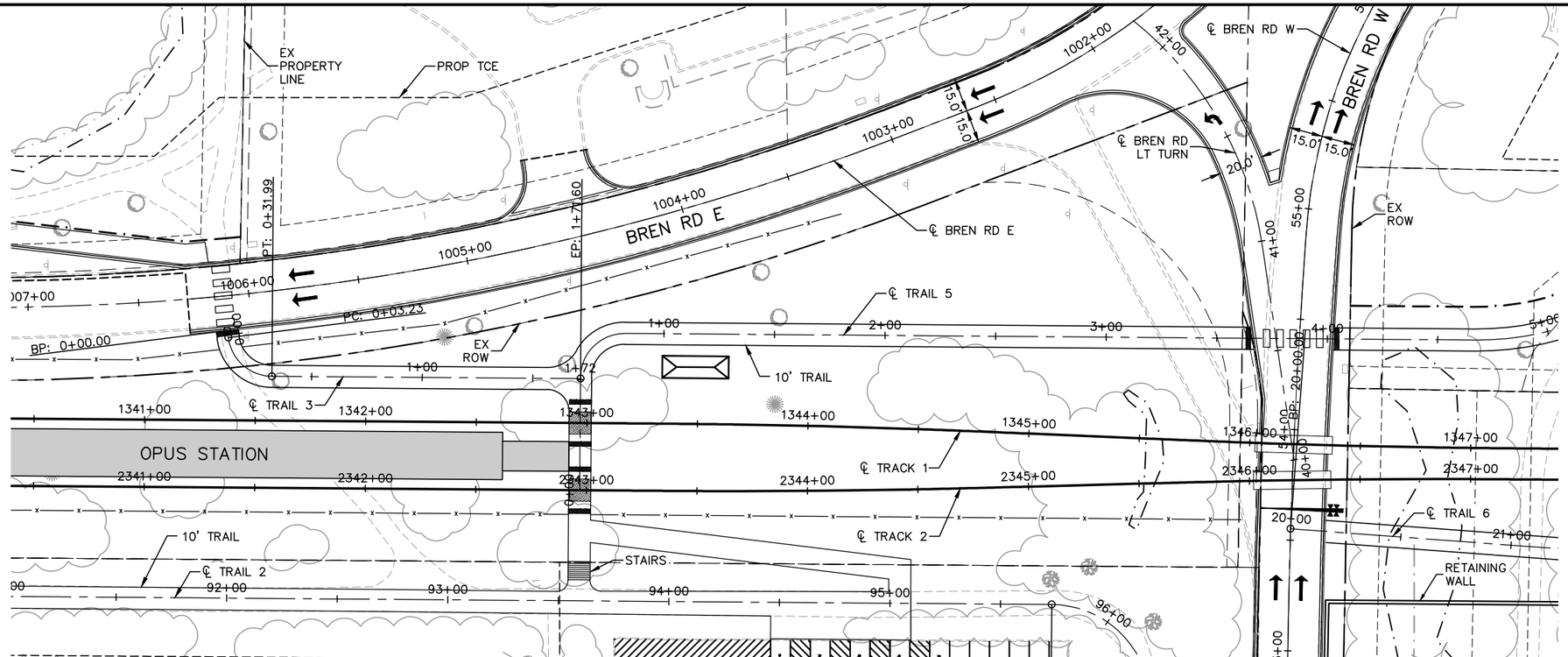


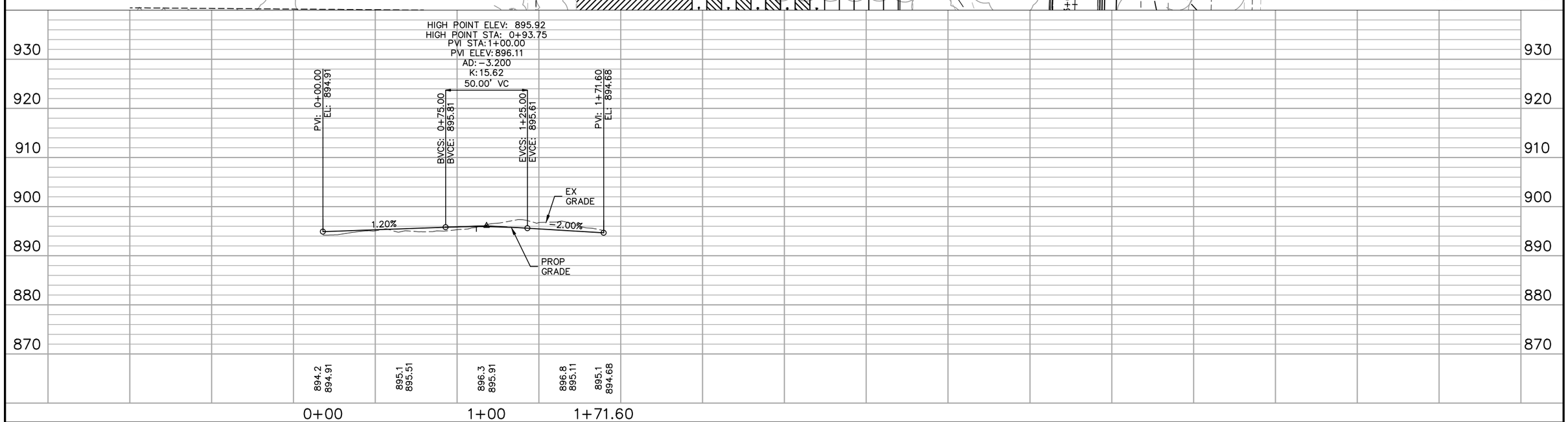


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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

**WEST SEGMENT 3**
**TRAIL 3**
**PLAN AND PROFILE**
**STA. 0+00 TO STA. 1+72**

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TRL-006

SHEET 36 OF 49

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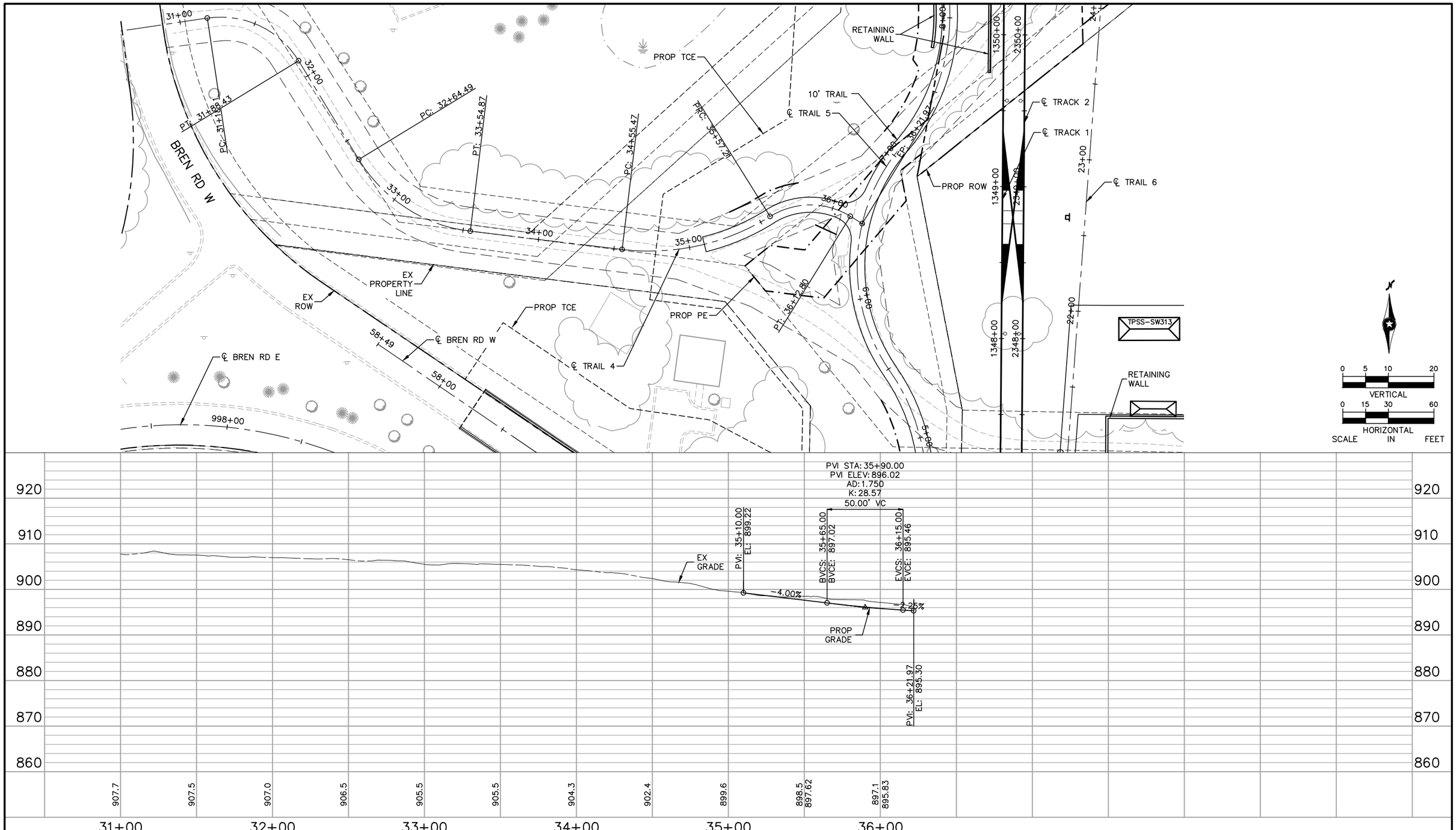


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SOUTHWEST Green Line LRT Extension

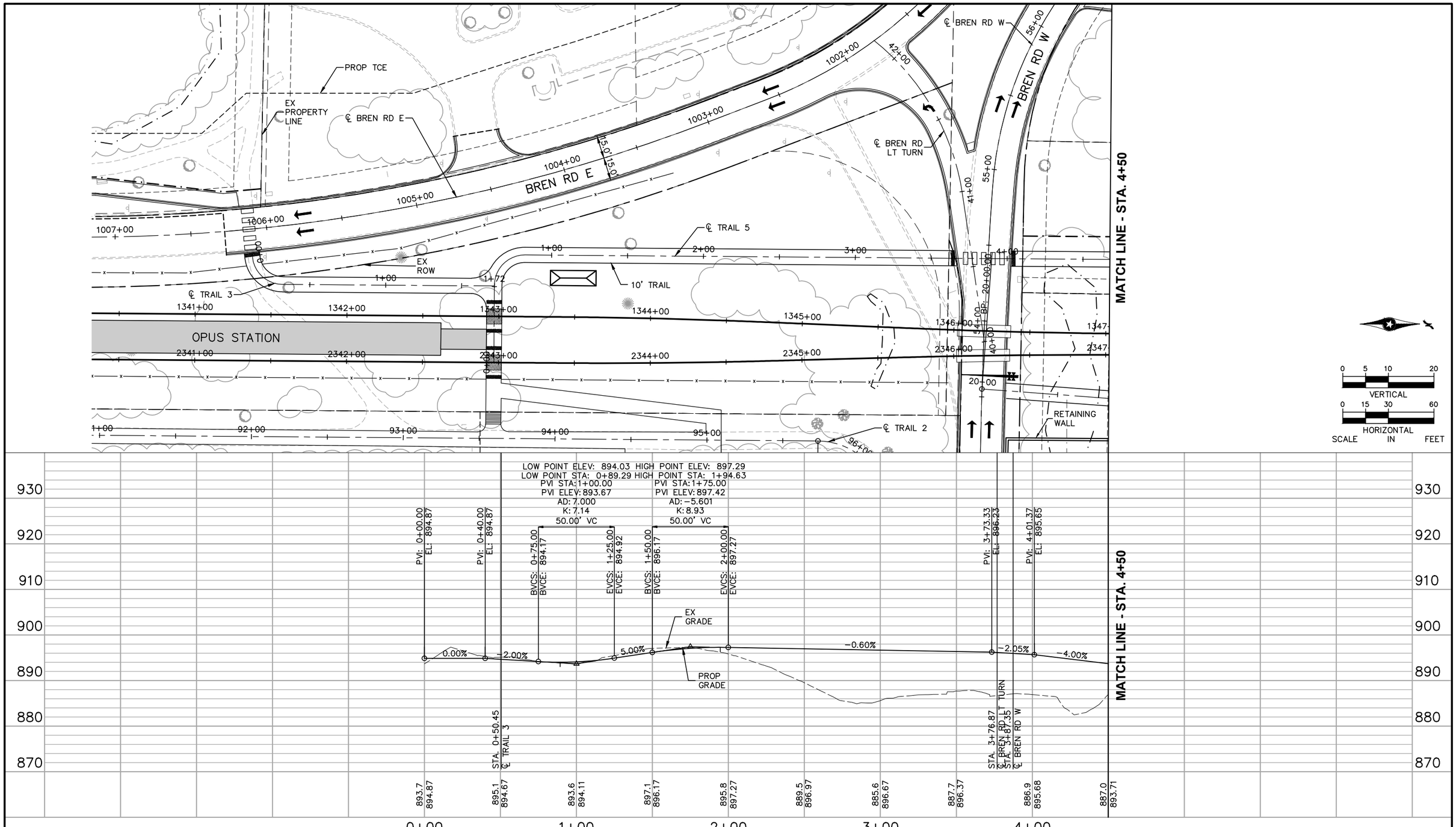
**WEST SEGMENT 3**
**TRAIL 4**
**PLAN AND PROFILE**
**STA. 31+00 TO STA. 36+22**

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TRL-007

SHEET 37 OF 49

Jul, 21 2015 05:49 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TRL.dwg By: msobiech

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SOUTHWEST Green Line LRT Extension

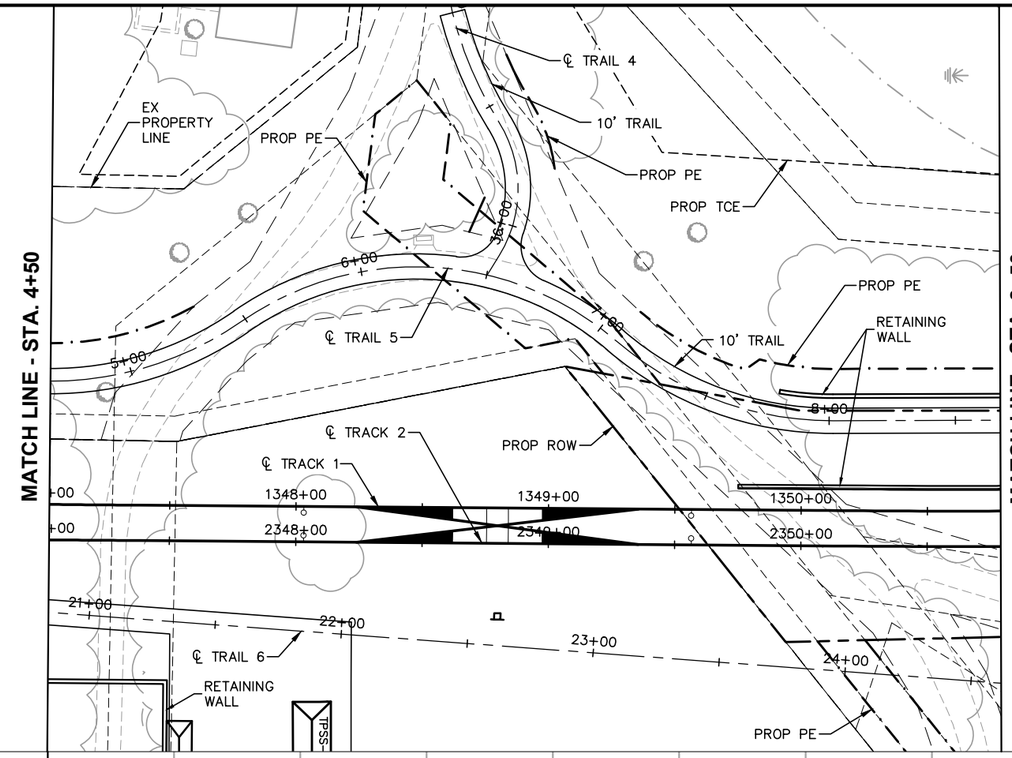
**WEST SEGMENT 3**
**TRAIL 5**
**PLAN AND PROFILE**
**STA. 0+00 TO STA. 4+50**

DISCIPLINE: CIVIL

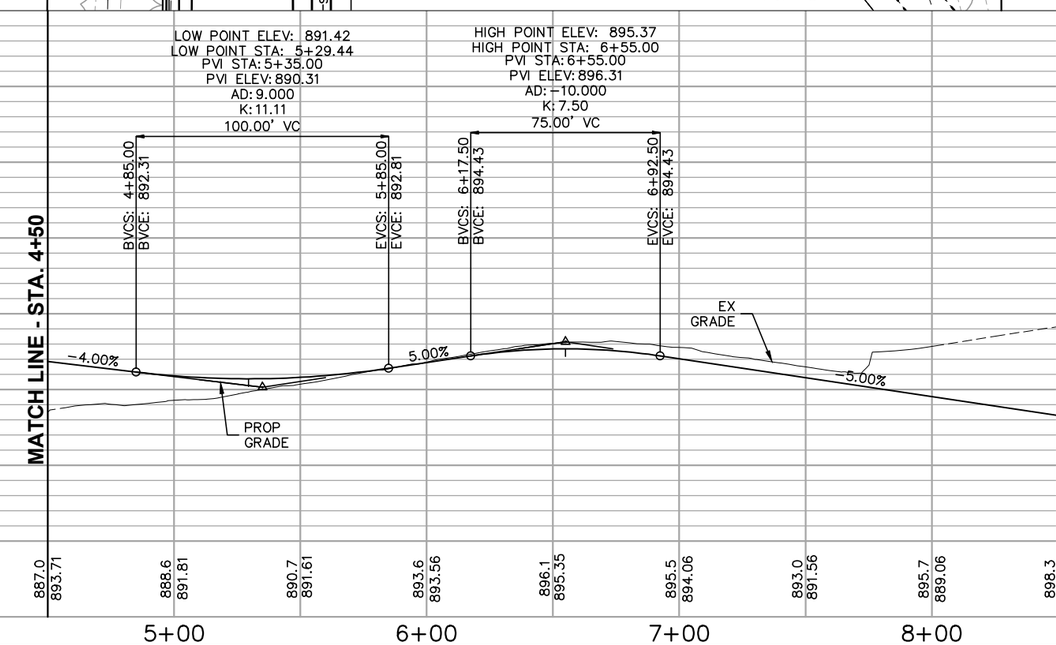
SHEET NAME: W3-CIV-TRL-003

SHEET 38 OF 49

Jul, 21 2015 05:29 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TRL.dwg By: msobiech




0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

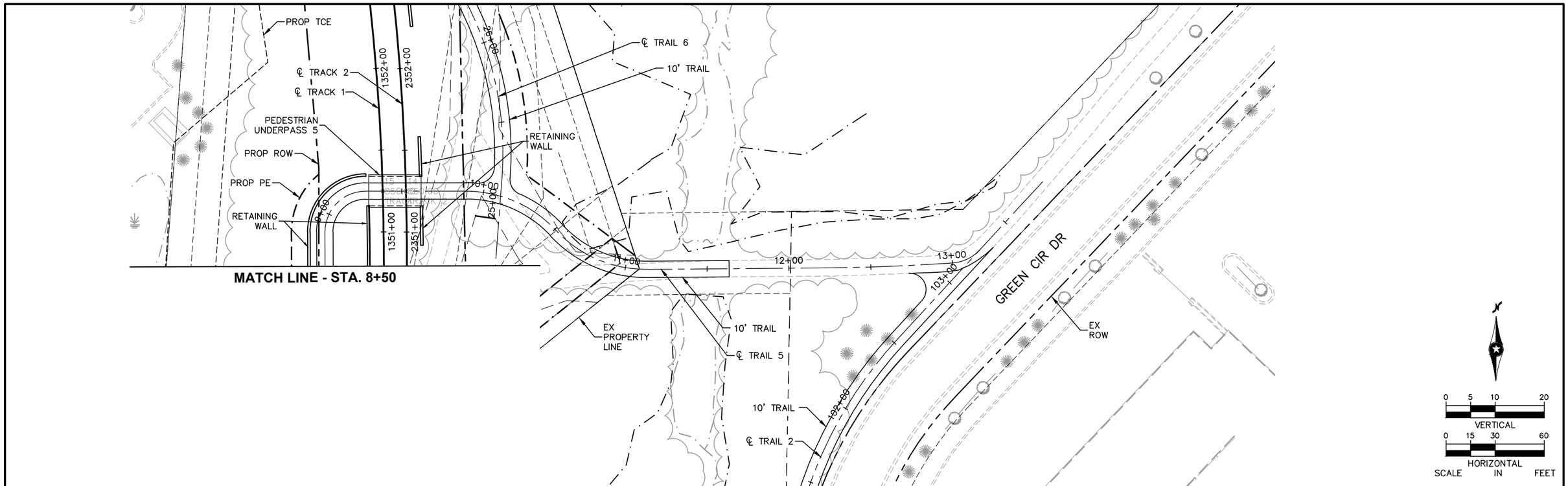
**WEST SEGMENT 3**
**TRAIL 5**
**PLAN AND PROFILE**
**STA. 4+50 TO STA. 8+50**

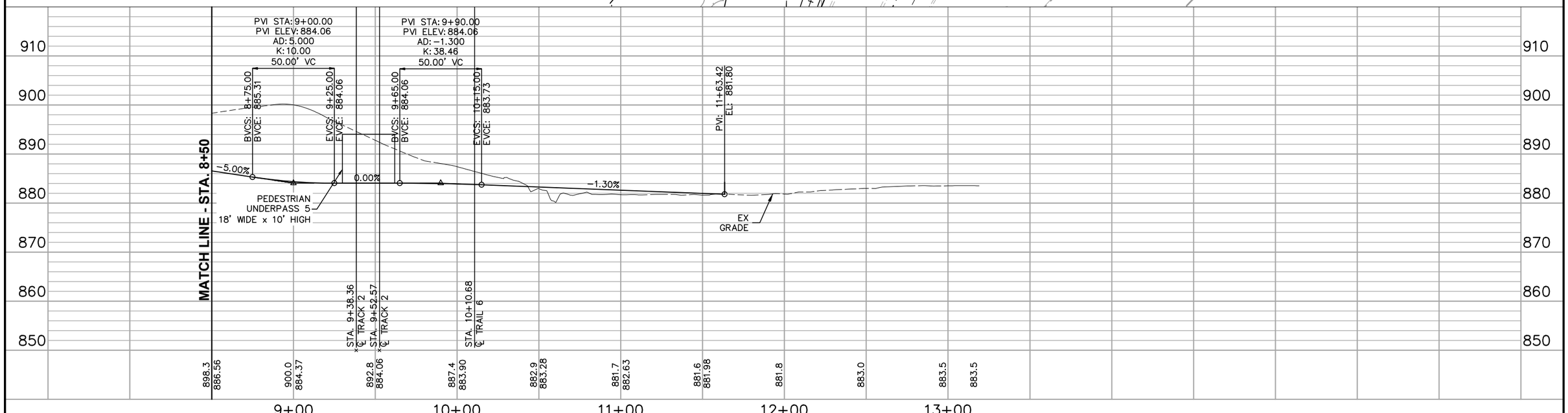
DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TRL-004

SHEET 39 OF 49

Jul, 21 2015 05:29 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TRL.dwg By: msobiech

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

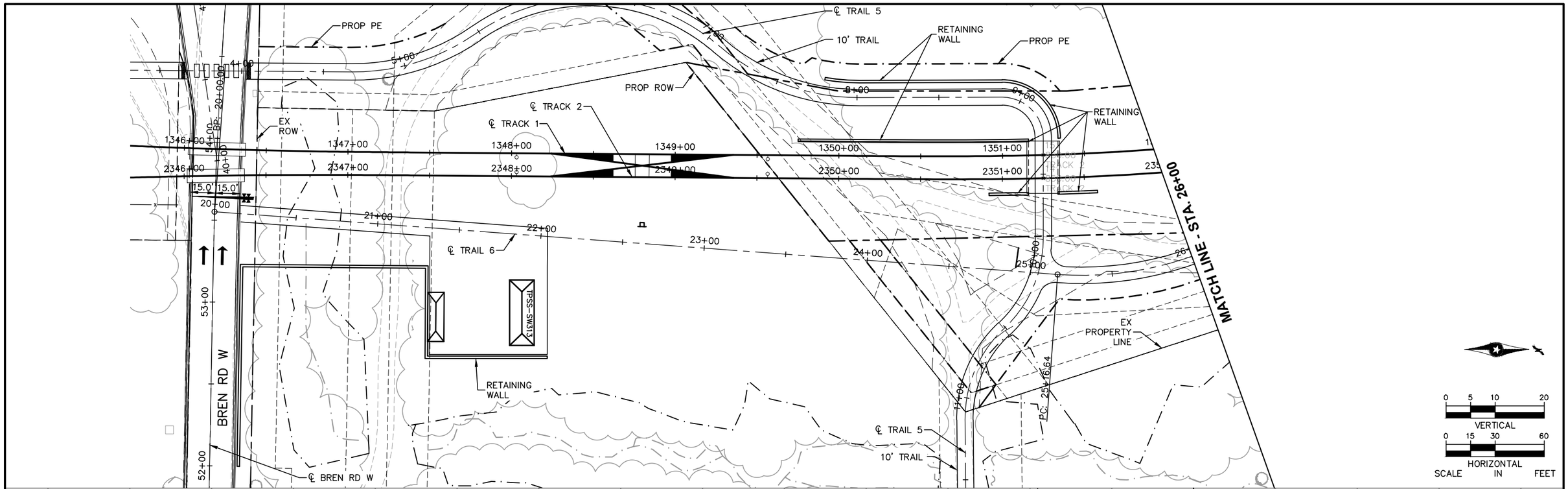
**WEST SEGMENT 3**
**TRAIL 5**
**PLAN AND PROFILE**
**STA. 8+50 TO STA. 13+19**

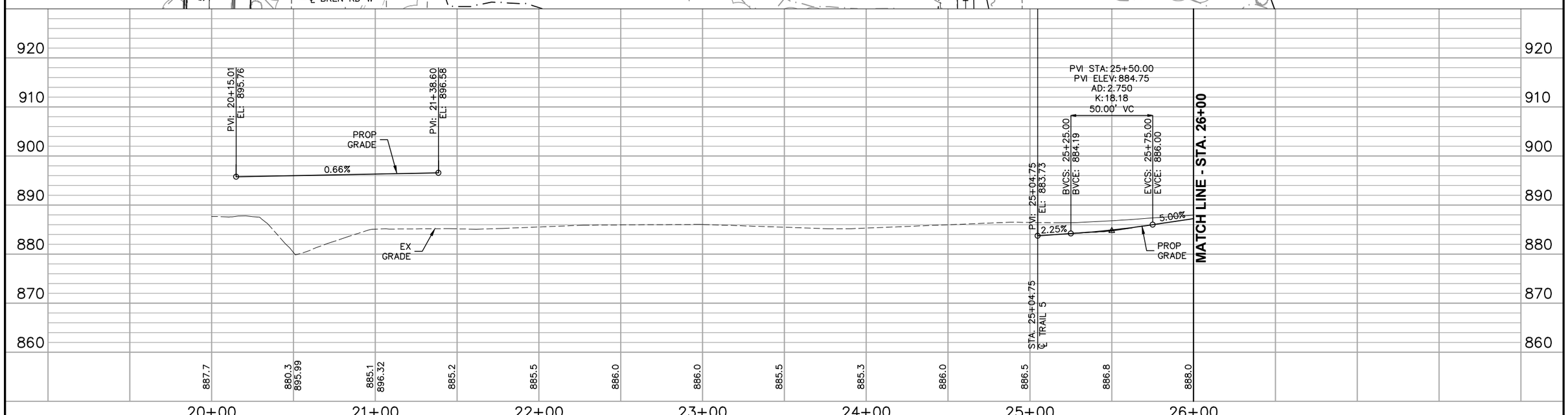
DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TRL-005

SHEET 40 OF 49

Jul, 21 2015 05:30 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TRL.dwg By: msobiech

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SOUTHWEST Green Line LRT Extension

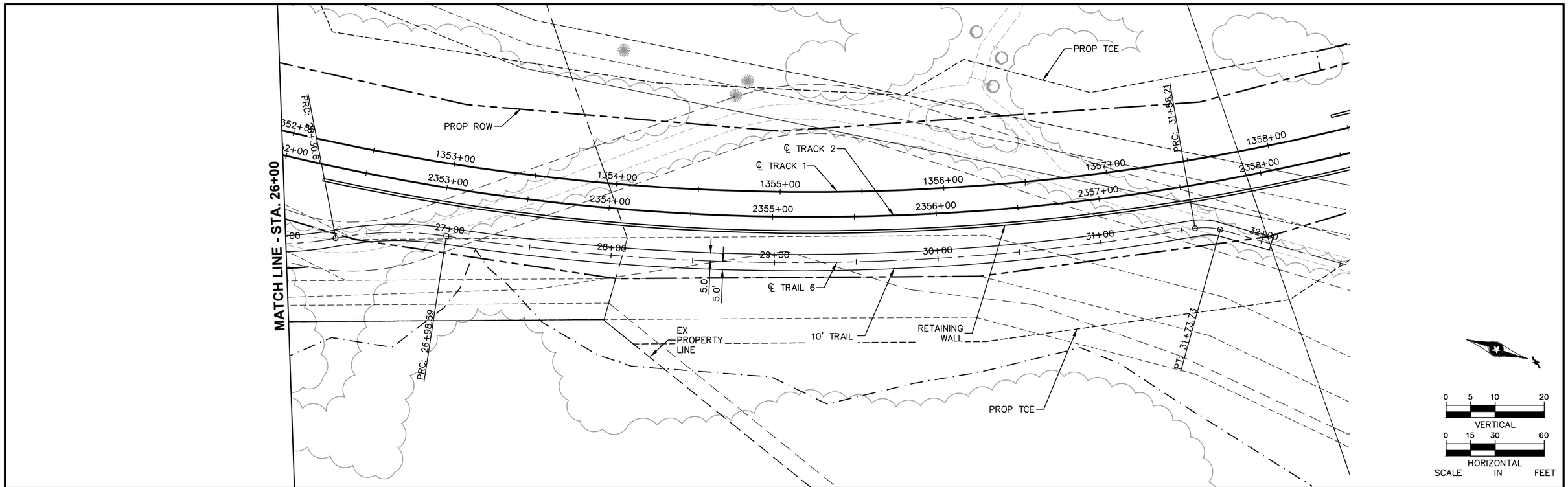
**WEST SEGMENT 3**
**TRAIL 6**
**PLAN AND PROFILE**
**STA. 20+00 TO STA. 26+00**

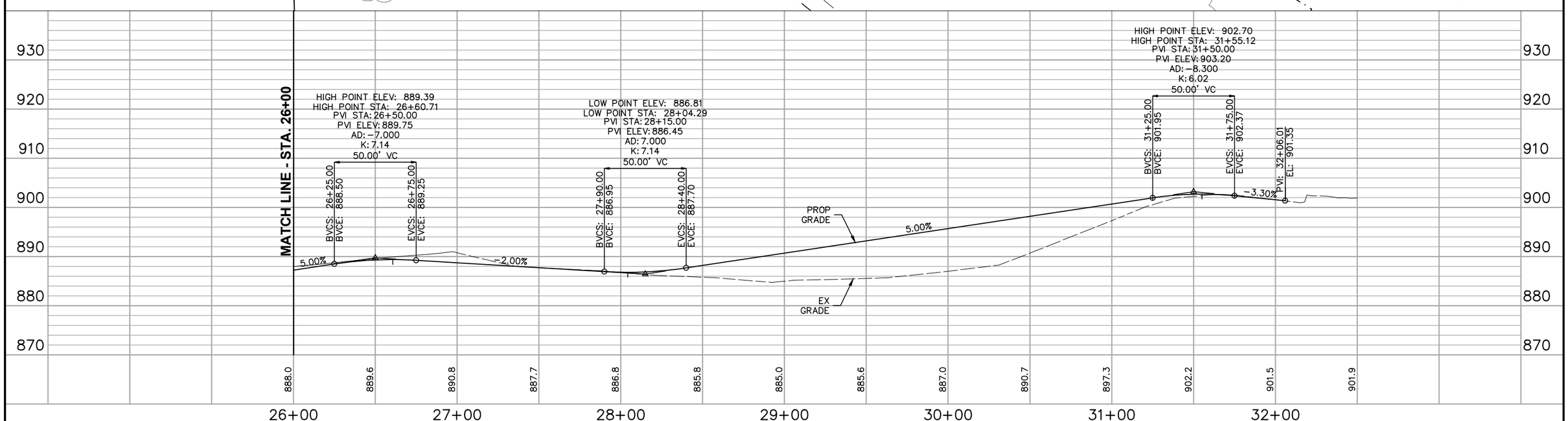
DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TRL-008

SHEET 41 OF 49

Jul, 21 2015 05:31 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TRL.dwg By: msobiech

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SOUTHWEST Green Line LRT Extension

**WEST SEGMENT 3**
**TRAIL 6**
**PLAN AND PROFILE**
**STA. 26+00 TO STA. 32+06**

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TRL-009

SHEET 42 OF 49

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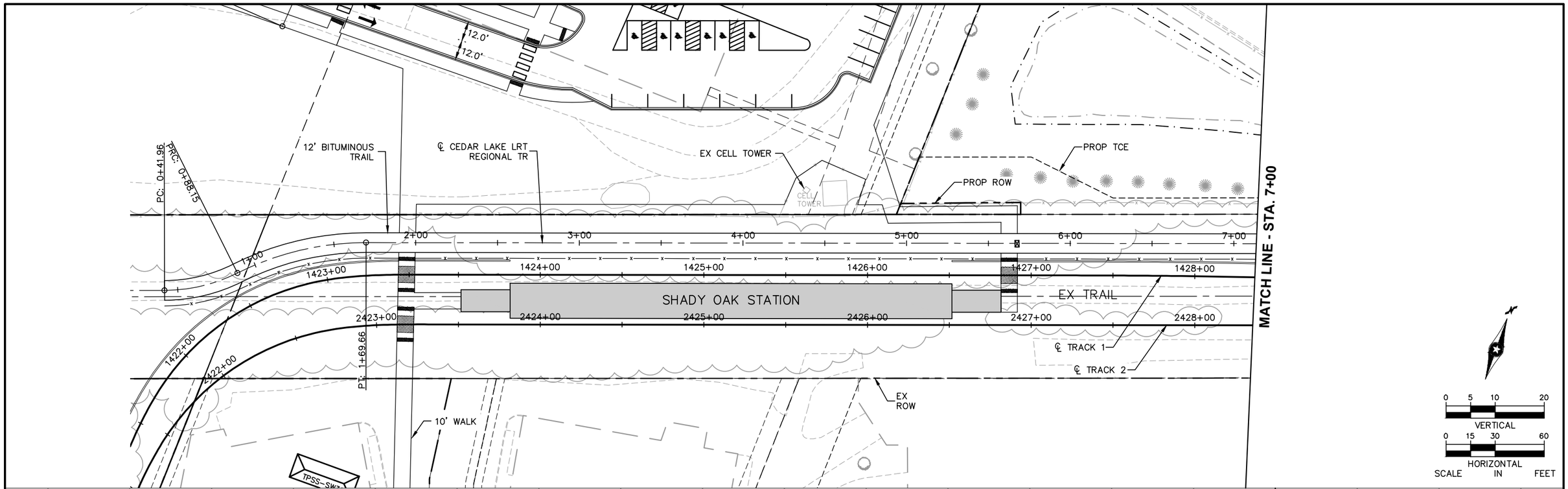


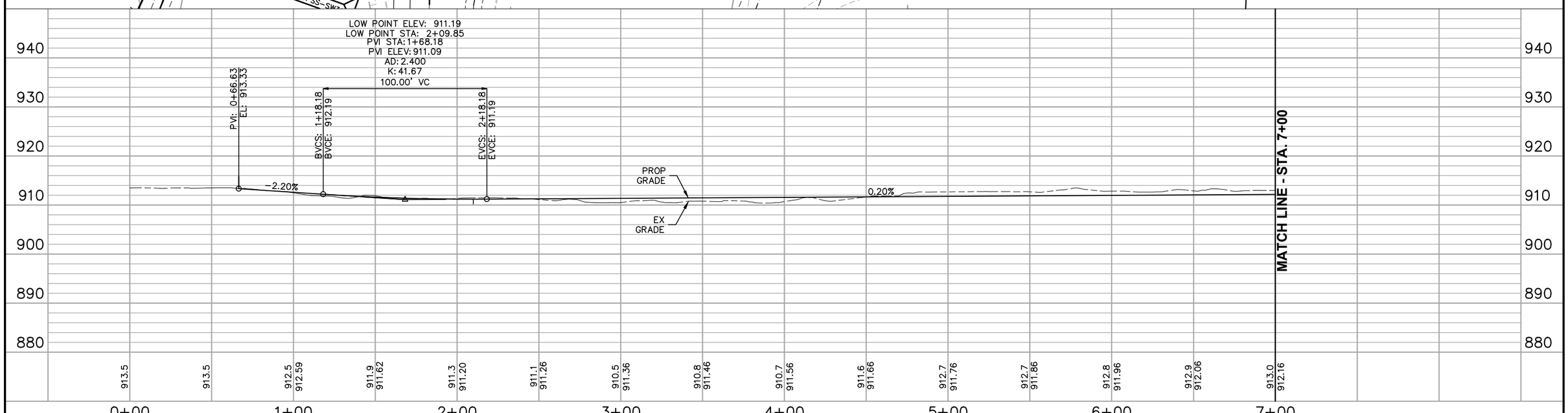


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SOUTHWEST Green Line LRT Extension

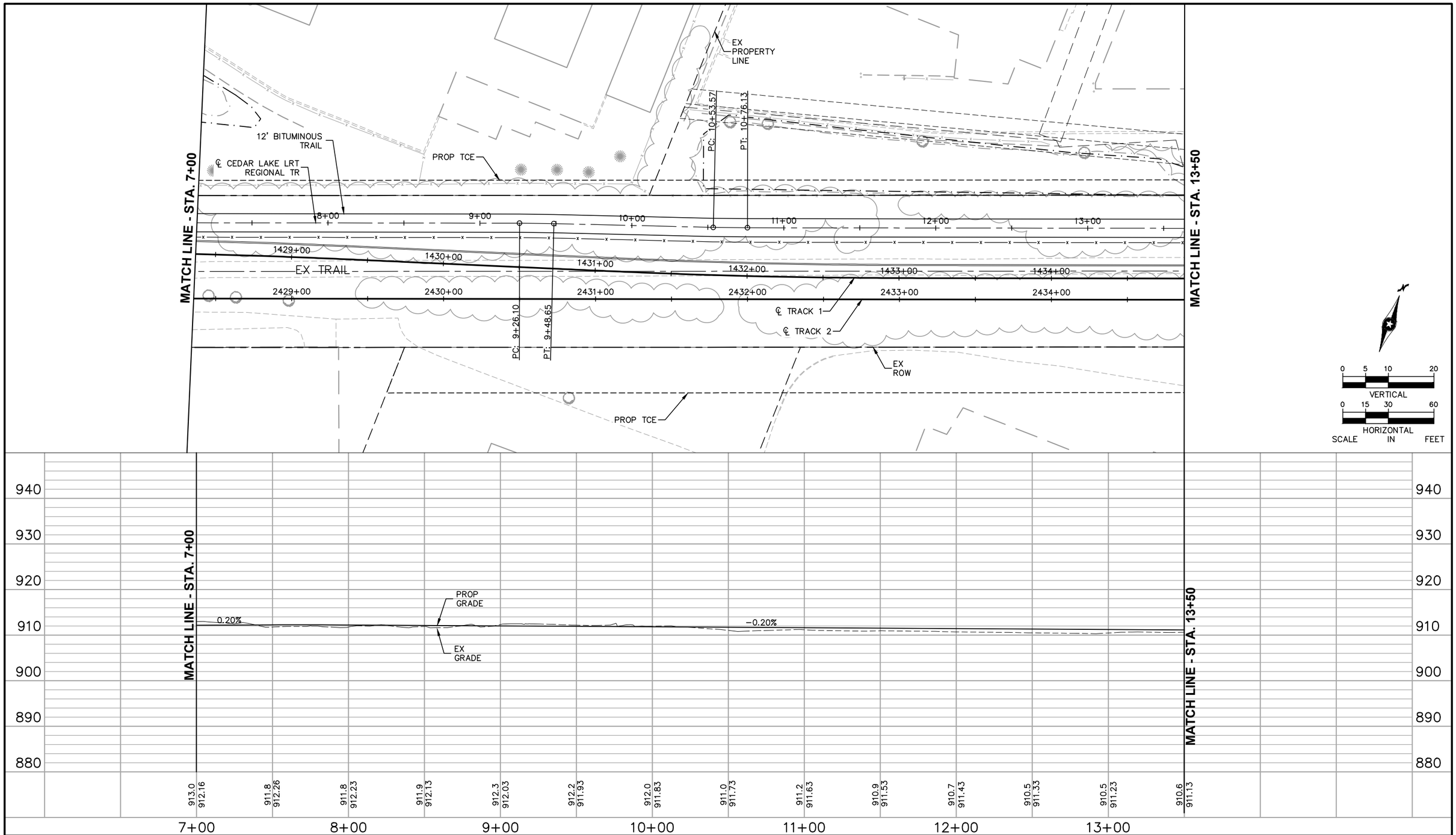
**WEST SEGMENT 3**
**CEDAR LAKE LRT REGIONAL TRAIL**
**PLAN AND PROFILE**
**STA. 0+00 TO STA. 7+00**

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TRL-010

SHEET 43 OF 49

Jul, 22 2015 01:04 pm C:\Users\msobiech\appdata\local\temp\AcPublish_9536\W3-CIV-TRL.dwg By: msobiech

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SOUTHWEST Green Line LRT Extension

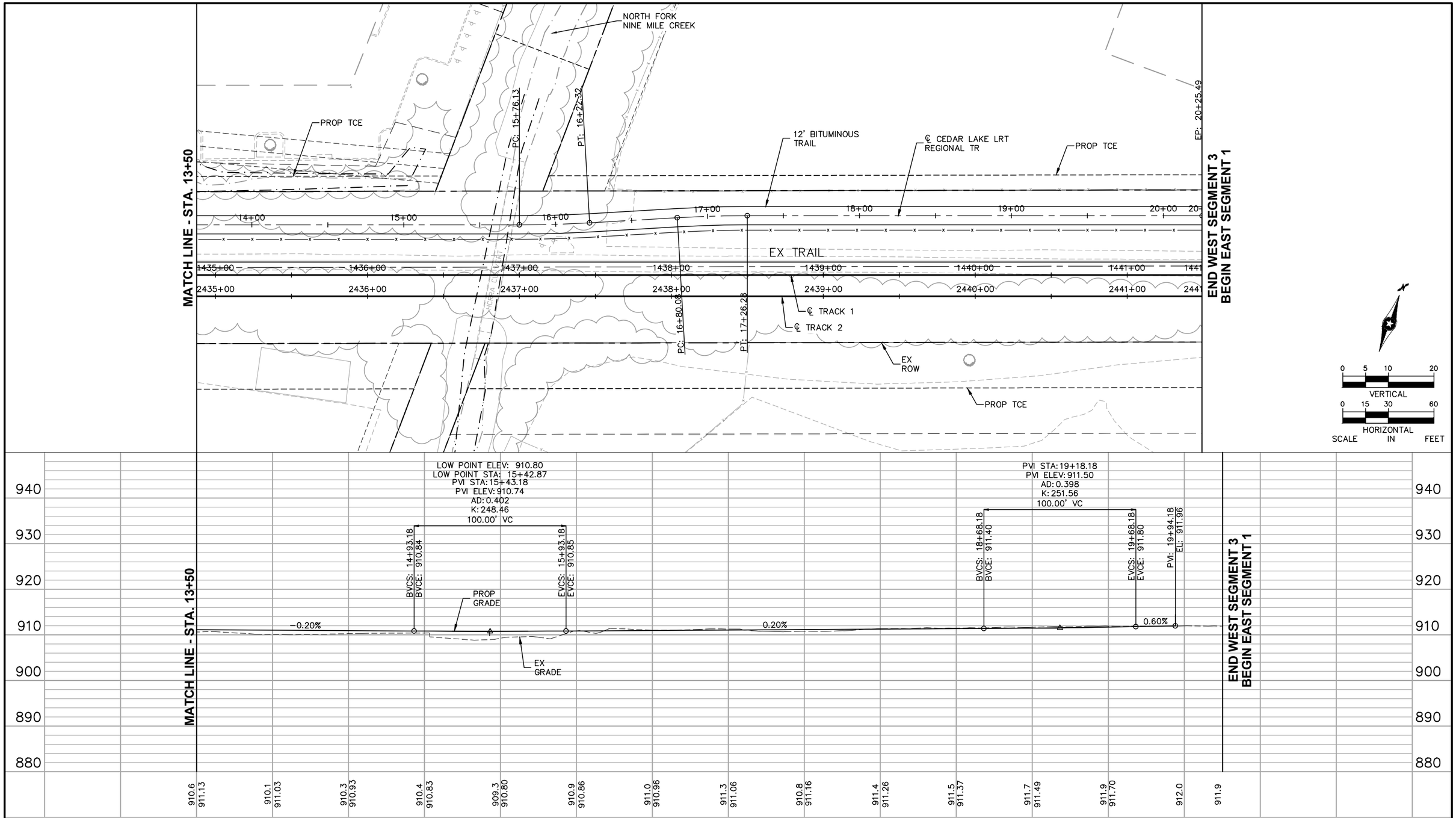
**WEST SEGMENT 3**
**CEDAR LAKE LRT REGIONAL TRAIL**
**PLAN AND PROFILE**
**STA. 7+00 TO STA. 13+50**

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TRL-011

SHEET 44 OF 49

Jul, 22 2015 01:04 pm C:\Users\msobiech\appdata\local\temp\AcPublish_9536\W3-CIV-TRL.dwg By: msobiech

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SOUTHWEST Green Line LRT Extension

# WEST SEGMENT 3
# CEDAR LAKE LRT REGIONAL TRAIL
# PLAN AND PROFILE
# STA. 13+50 TO STA. 20+25

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TRL-012

SHEET 45 OF 49

Jul, 22 2015 01:05 pm C:\Users\msobiech\appdata\local\temp\AcPublish_9536\W3-CIV-TRL.dwg By: msobiech

NOTE:
80 PROVIDED PARKING STALLS

℄ BREN RD E
℄ BREN RD LT TURN
BREN RD W
RETAINING WALL
TUNNEL
℄ BREN RD W
PROP TCE
℄ TRACK 1
℄ TRACK 2
℄ TRAIL 5
10' TRAIL
PC: 0+51.03
PT: 0+82.44
EP: 1+71.60
℄ TRAIL 3
BREN RD E
BP: 0+00.00
PT: 0+31.99
PC: 0+03.23
OPUS STATION
33.0'
10' TRAIL
℄ TRAIL 2
FLAG

0 15 30 60
HORIZONTAL
SCALE IN FEET

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METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

# WEST SEGMENT 3
# OPUS STATION PARK AND RIDE
# SITE PLAN

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

SHEET 46 OF 49

Jul, 21 2015 05:34 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-SIT.dwg By: msobiech

NOTE:
700 PROVIDED PARKING STALLS

CSAH 3
(EXCELSIOR BLVD)

BP: 300+00.00

℄ CSAH 3
(EXCELSIOR BLVD)

EX
ROW

BP: 0+00.00
PRC: 0+88.15
℄: 0+41.96

TRACK 1
TRACK 2

PT: 1+69.66

5TH ST S

℄ 5TH ST S

17TH AVE S

℄ 17TH AVE S

10' PROTECTED
BIKE LANE

8' WALK

PASSENGER DROP OFF

10' WALK

EX CELL TOWER

12' WALK

EX
PROPERTY
LINE

℄ CEDAR LAKE LRT
REGIONAL TR

PROP ROW

20.0'

24.0'

0 30 60 120
HORIZONTAL
SCALE IN FEET

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

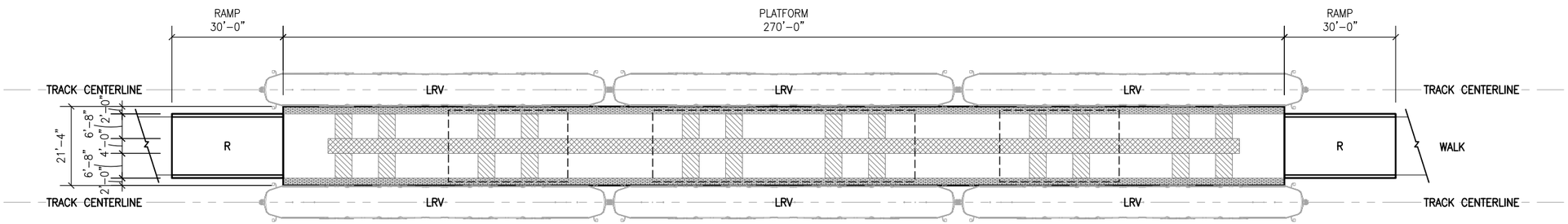
# WEST SEGMENT 3
# SHADY OAK STATION PARK AND RIDE
# SITE PLAN

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-SIT-002

SHEET 47 OF 49

Jul, 22 2015 01:07 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-SIT.dwg By: msobiech




OPUS STATION

SHADY OAK STATION

## STATION PLATFORM ELEMENTS:

R — APPROACH RAMPS
- LESS THAN 5% SLOPE
- HAND RAILINGS ON BOTH SIDES

PATRON CIRCULATION ZONE
- CLEAR OF OBSTRUCTIONS
- WIDE ENOUGH TO ALLOW COMFORTABLE PASSAGE OF TWO PEOPLE

TRAIN LOADING AND UNLOADING ZONE
- AREAS WHERE TRAIN DOORS ARE LOCATED WHEN LRV IS AT STATION PLATFORM.

PATRON WAITING AREA AND STRUCTURE ZONE
- FARE COLLECTION EQUIPMENT
- COMMUNICATIONS AND ELECTRICAL EQUIPMENT
- INFORMATION KIOSKS
- TRASH CANS
- SIGNAGE

SHELTER AND CANOPY STRUCTURE
- COVERED WINDSCREEN/SHELTER AREAS WITH BENCHES AND LEANING RAILS
- PROTECTION AT BOARDING AREAS

BOARDING EDGE
- ADA DETECTABLE WARNING AT EDGE OF PLATFORM

## STATION TYPE BY LOCATION:

STATION CANOPY DESIGN VARIES BY STATION TYPE AND LOCATION

OPUS STATION: LANDSCAPE TYPE

SHADY OAK STATION: LANDMARK TYPE

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SOUTHWEST Green Line LRT Extension

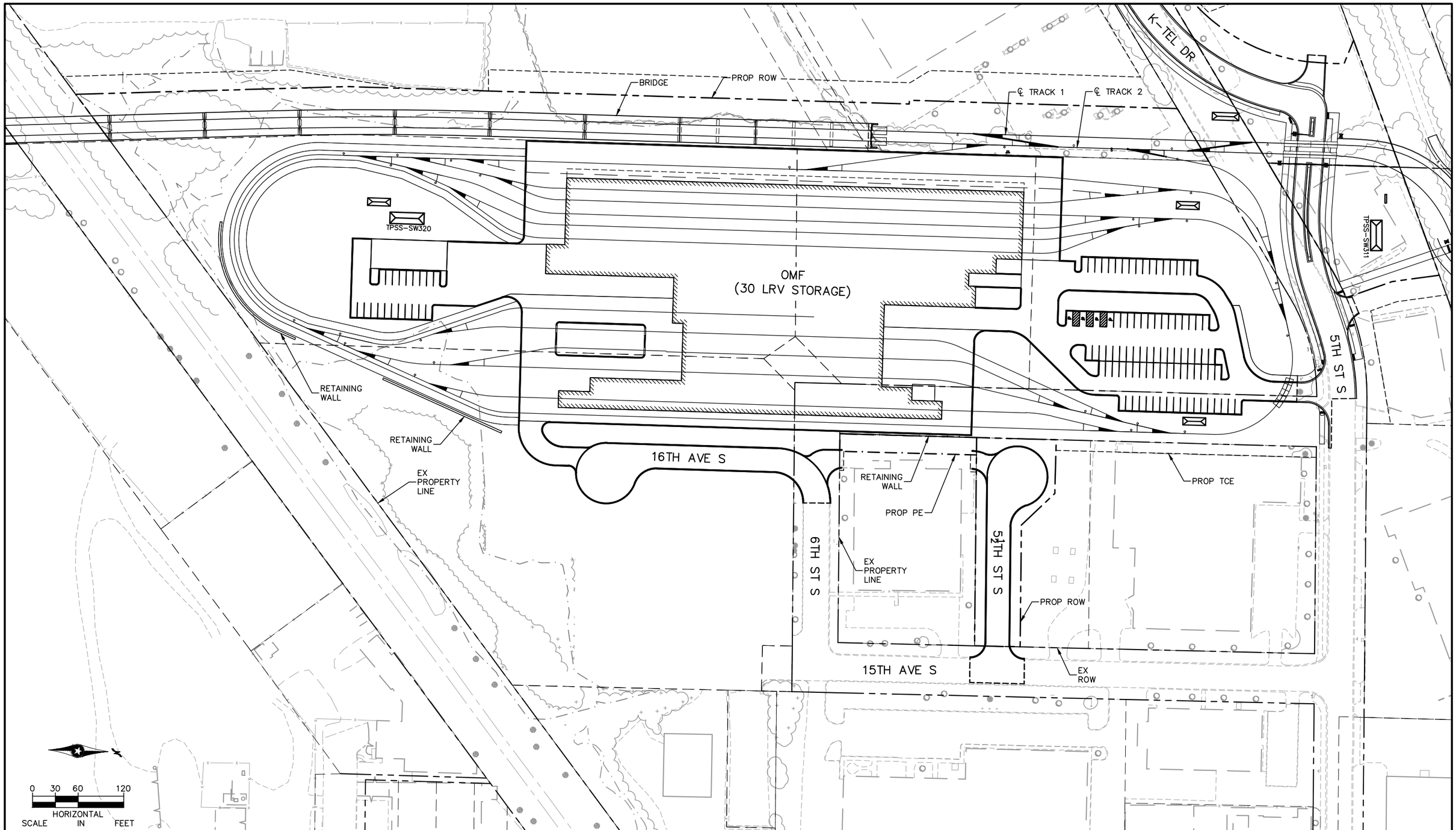
**WEST SEGMENT 3**
**STATION LAYOUT**
**CENTER PLATFORM**

DISCIPLINE: ARCHITECTURE

SHEET NAME: W3-ARC-STA-PLN

SHEET 48 OF 49

Jul, 20 2015 05:23 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS MC\ARCH\W3-ARC-STA-PLN.dwg By: Ebsenjr

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SOUTHWEST Green Line LRT Extension

# WEST SEGMENT 3
# OPERATIONS & MAINTENANCE FACILITY
# SITE PLAN

DISCIPLINE: CIVIL

SHEET NAME: OMF-CIV-PLN-200

SHEET 49 OF 49

Jul, 22 2015 09:27 am V:\3400_ADC\CAD\OMF\PLAN SHEETS MC\OMF-CIV-PLN-200.dwg By: V-CarrelAK