METROPOLITAN COUNCIL

SOUTHWEST
Green Line LRT Extension

PLAN PACKAGE INDEX / DESCRIPTION
CIVIL WEST CONSTRUCTION
VOLUME 1 - EXISTING CONDITIONS
VOLUME 2 - CIVIL
VOLUME 3 - TRACKWORK
VOLUME 4A - BRIDGES
VOLUME 4B - BRIDGES
VOLUME 5 - TUNNELS
VOLUME 6 - RETAINING WALLS
VOLUME 7 - UTILITIES
VOLUME 8 - DRAINAGE
VOLUME 9 - URBAN DESIGN / LANDSCAPE
VOLUME 10 - TRAFFIC / LIGHTING
VOLUME 11 - STATIONS
VOLUME 12 - SYSTEMS

CIVIL WEST CONSTRUCTION

VOLUME 9
URBAN DESIGN / LANDSCAPE

THE PROPOSED SOUTHWEST LRT PROJECT IS NOT FINAL BUT IS STILL UNDER ENVIRONMENTAL REVIEW AND THE PROJECT IS SUBJECT TO CHANGE. THESE PLANS ARE NOT FINAL.

THE COUNCIL, THROUGH THE DEVELOPMENT OF THESE PLANS, DOES NOT INTEND THAT THEY WILL PREJUDICE OR COMPROMISE ANY STATE OR FEDERAL ENVIRONMENTAL REVIEW OR OTHER LEGAL REQUIREMENTS. THESE PLANS DO NOT LIMIT THE PROJECT DESIGN ALTERNATIVES OR MITIGATIVE MEASURES THAT THE COUNCIL MAY UNDERTAKE IF THE PROPOSED SWLRT PROJECT PROCEEDS TO CONSTRUCTION.

THE COUNCIL WILL NOT TAKE FINAL ACTION ON THIS MATTER UNLESS THE COUNCIL PROCEEDS WITH THE PROJECT AFTER THE FTA'S RECORD OF DECISION AND THE COUNCIL'S DETERMINATION OF ADEQUACY.

60% SUBMISSION
DATE : 09/28/15

AECOM

CIVIL WEST

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV
		VOLUME 9 - URBAN DESIGN / LANDSCAPE			
1	W0-URD-CVR-001	COVER SHEET			
2	W0-URD-IDX-001	VOLUME INDEX OF PLAN SHEETS			
3	W0-GEN-KEY-001	GENERAL KEY MAP			
4	W0-GEN-NTS-001	GENERAL LEGEND AND ABBREVIATIONS SHEET 1			
5	W0-GEN-NTS-002	GENERAL LEGEND AND ABBREVIATIONS SHEET 2			
6	W1-LAN-LAY-001	LANDSCAPE ARCH PLAN SHEET LAYOUT SHEET 1			
7	W2-LAN-LAY-001	LANDSCAPE ARCH PLAN SHEET LAYOUT SHEET 2			
8	W2-LAN-LAY-002	LANDSCAPE ARCH PLAN SHEET LAYOUT SHEET 3			
9	W3-LAN-LAY-001	LANDSCAPE ARCH PLAN SHEET LAYOUT SHEET 4			
10	W3-LAN-LAY-002	LANDSCAPE ARCH PLAN SHEET LAYOUT SHEET 5			
11	W0-URD-LGD-001	URBAN DESIGN NOTES AND LEGEND			
12	W1-URD-PLN-001	SOUTHWEST STATION URBAN DESIGN PLAN 1			
13	W1-URD-PLN-002	SOUTHWEST STATION URBAN DESIGN PLAN 2			
14	W2-URD-PLN-001	GOLDEN TRIANGLE STATION URBAN DESIGN PLAN 1			
15	W2-URD-PLN-002	GOLDEN TRIANGLE STATION URBAN DESIGN PLAN 2			
16	W2-URD-PLN-003	GOLDEN TRIANGLE STATION URBAN DESIGN PLAN 3			
17	W2-URD-PLN-004	CITY WEST STATION URBAN DESIGN PLAN 1			
18	W2-URD-PLN-005	CITY WEST STATION URBAN DESIGN PLAN 2			
19	W3-URD-PLN-001	OPUS STATION URBAN DESIGN PLAN 1			
20	W3-URD-PLN-002	OPUS STATION URBAN DESIGN PLAN 2			
21	W3-URD-PLN-003	SHADY OAK STATION URBAN DESIGN PLAN 1			
22	W3-URD-PLN-004	SHADY OAK STATION URBAN DESIGN PLAN 2			
23	W3-URD-PLN-005	SHADY OAK STATION URBAN DESIGN PLAN 3			
24	W3-URD-PLN-006	SHADY OAK STATION URBAN DESIGN PLAN 4			
25	W3-URD-PLN-007	SHADY OAK STATION URBAN DESIGN PLAN 5			
26	W3-URD-PLN-008	SHADY OAK STATION URBAN DESIGN PLAN 6			
27	W3-URD-PLN-009	SHADY OAK STATION URBAN DESIGN PLAN 7			
		LANDSCAPE			
28	W0-LAN-LGD-001	LANDSCAPE NOTES AND LEGEND			
29	29-W1-LAN-PLN-001	SOUTHWEST STATION LANDSCAPE PLAN 1			
30	30-W1-LAN-PLN-002	SOUTHWEST STATION LANDSCAPE PLAN 2			
31	W2-LAN-PLN-001	GOLDEN TRIANGLE STATION LANDSCAPE PLAN 1			
32	W2-LAN-PLN-002	GOLDEN TRIANGLE STATION LANDSCAPE PLAN 2			
33	W2-LAN-PLN-003	GOLDEN TRIANGLE STATION LANDSCAPE PLAN 3			
34	W2-LAN-PLN-004	CITY WEST STATION LANDSCAPE PLAN 1			
35	W2-LAN-PLN-005	CITY WEST STATION LANDSCAPE PLAN 2			
36	W3-LAN-PLN-001	OPUS STATION LANDSCAPE PLAN 1			
37	W3-LAN-PLN-002	OPUS STATION LANDSCAPE PLAN 2			
38	W3-LAN-PLN-003	SHADY OAK STATION LANDSCAPE PLAN 1			
39	W3-LAN-PLN-004	SHADY OAK STATION LANDSCAPE PLAN 2			
40	W3-LAN-PLN-005	SHADY OAK STATION LANDSCAPE PLAN 3			
41	W3-LAN-PLN-006	SHADY OAK STATION LANDSCAPE PLAN 4			
42	W3-LAN-PLN-007	SHADY OAK STATION LANDSCAPE PLAN 5			
43	W3-LAN-PLN-008	SHADY OAK STATION LANDSCAPE PLAN 6			
44	W3-LAN-PLN-009	SHADY OAK STATION LANDSCAPE PLAN 7			
45	W0-LAN-DTLS-001	LANDSCAPE DETAILS 1			
46	W0-LAN-DTLS-002	LANDSCAPE DETAILS 2			
47	W0-LAN-DTLS-003	LANDSCAPE DETAILS 3			
48	W0-LAN-DTLS-004	LANDSCAPE DETAILS 4			
49	W0-LAN-DTLS-005	PRELIMINARY PLANT PALETTE			

CIVIL WEST

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV

CIVIL WEST

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
URBAN DESIGN / LANDSCAPE
VOLUME INDEX OF PLAN SHEETS

DISCIPLINE: GENERAL

SHEET NAME: W0-URD-IDX - 001

SHEET 2 OF 49

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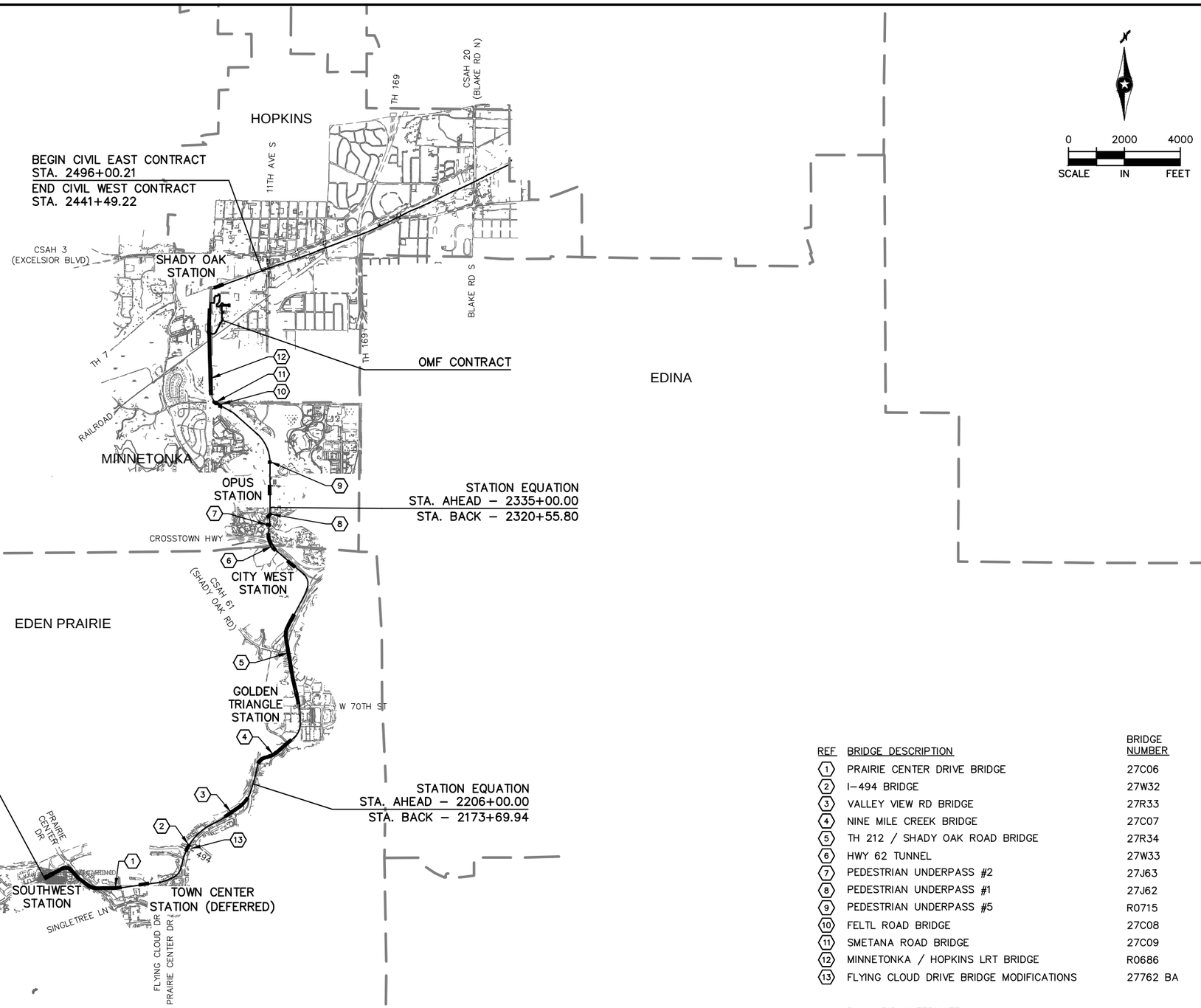

REF	BRIDGE DESCRIPTION	BRIDGE NUMBER
1	PRAIRIE CENTER DRIVE BRIDGE	27C06
2	I–494 BRIDGE	27W32
3	VALLEY VIEW RD BRIDGE	27R33
4	NINE MILE CREEK BRIDGE	27C07
5	TH 212 / SHADY OAK ROAD BRIDGE	27R34
6	HWY 62 TUNNEL	27W33
7	PEDESTRIAN UNDERPASS #2	27J63
8	PEDESTRIAN UNDERPASS #1	27J62
9	PEDESTRIAN UNDERPASS #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

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
GENERAL
KEY MAP

DISCIPLINE: GENERAL

SHEET NAME: W0-GEN-KEY - 001

SHEET 3 OF 49

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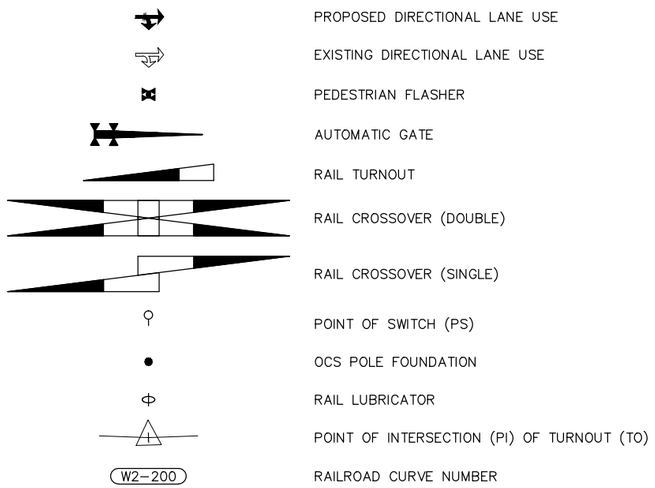
TRACK LINETYPES

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

CIVIL LINETYPES

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

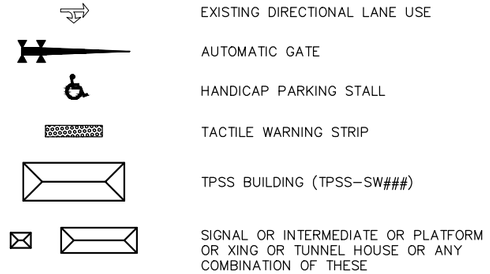
TRACK SYMBOLS



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

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
GENERAL
LEGEND AND ABBREVIATIONS
SHEET 1

DISCIPLINE: GENERAL

SHEET NAME: W0-GEN-NTS - 001

SHEET 4 OF 49

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ABBREVIATIONS

AD	ALGEBRAIC DIFFERENCE
AVE	AVENUE
BGN	BEGIN
BP	BEGINNING POINT
BVCE	BEGINNING VERTICAL CURVE ELEVATION
BVCS	BEGINNING VERTICAL CURVE STATION
BLVD	BOULEVARD
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY
C&G	CURB AND GUTTER
℄	CENTERLINE
CIR	CIRCLE
CP	CANADIAN PACIFIC
CPRAIL	CANADIAN PACIFIC RAILWAY
CS	CURVE TO SPIRAL
CSAH	COUNTY STATE AID HIGHWAY
D&U	DRAINAGE AND UTILITY
DF	DIRECT FIXATION
DR	DRIVE
DTL	DETAIL
DWY	DRIVEWAY
E	EAST
Ea	ACTUAL SUPERELEVATION (INCHES)
EB	EAST BOUND
EL or ELEV	ELEVATION
EP	END POINT
ESMT	EASEMENT
Eu	UNBALANCED SUPERELEVATION (INCHES)
EVCE	ENDING VERTICAL CURVE ELEVATION
EVCS	ENDING VERTICAL CURVE STATION
EX	EXISTING
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 EDGEBROOOK 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

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
GENERAL
LEGEND AND ABBREVIATIONS
SHEET 2

DISCIPLINE: GENERAL

SHEET NAME: W0-GEN-NTS - 002

SHEET 5 OF 49

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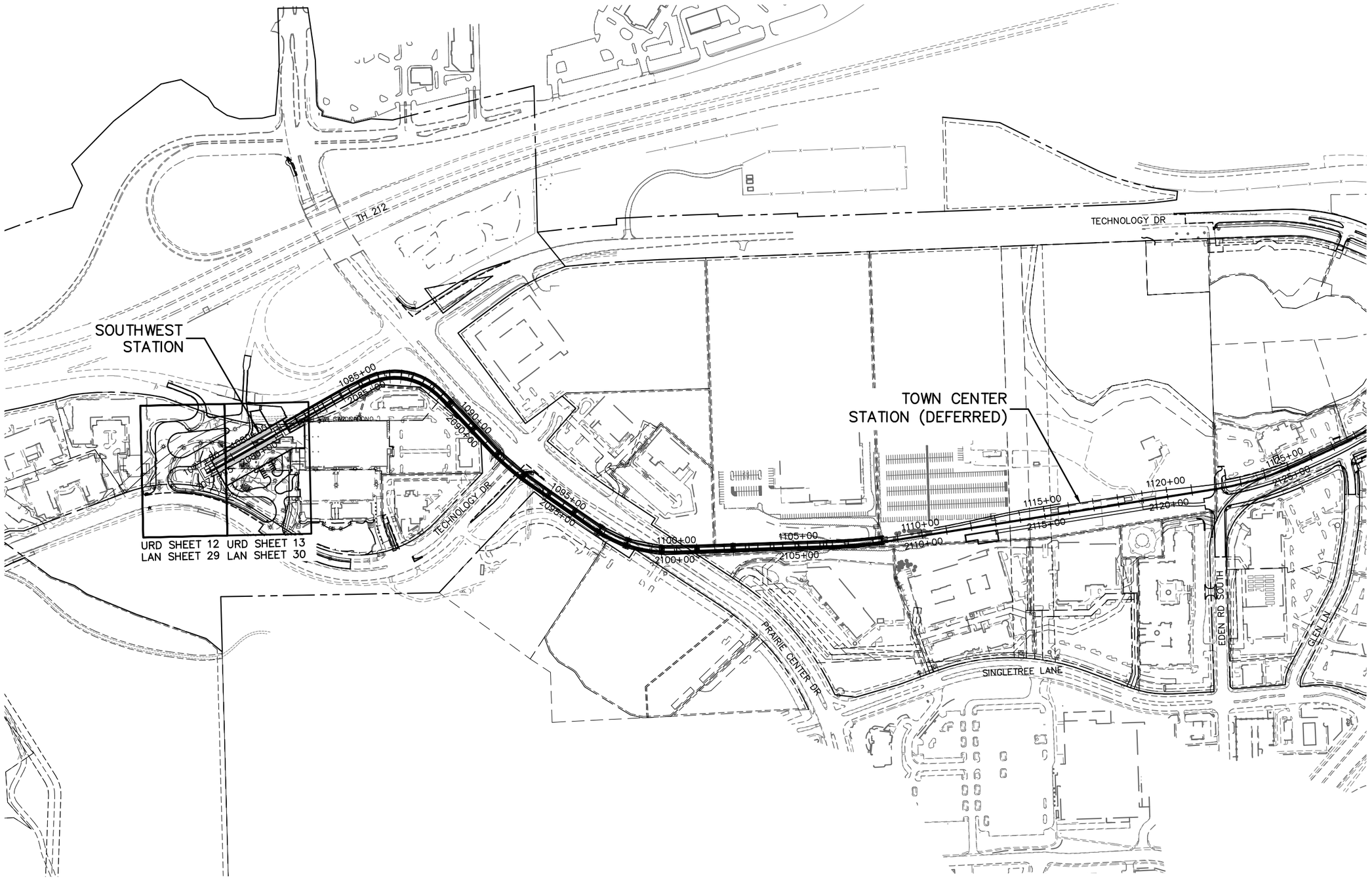

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
LANDSCAPE ARCH
PLAN SHEET LAYOUT
SHEET 1

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W1-LAN-LAY - 001

SHEET 6 OF 49

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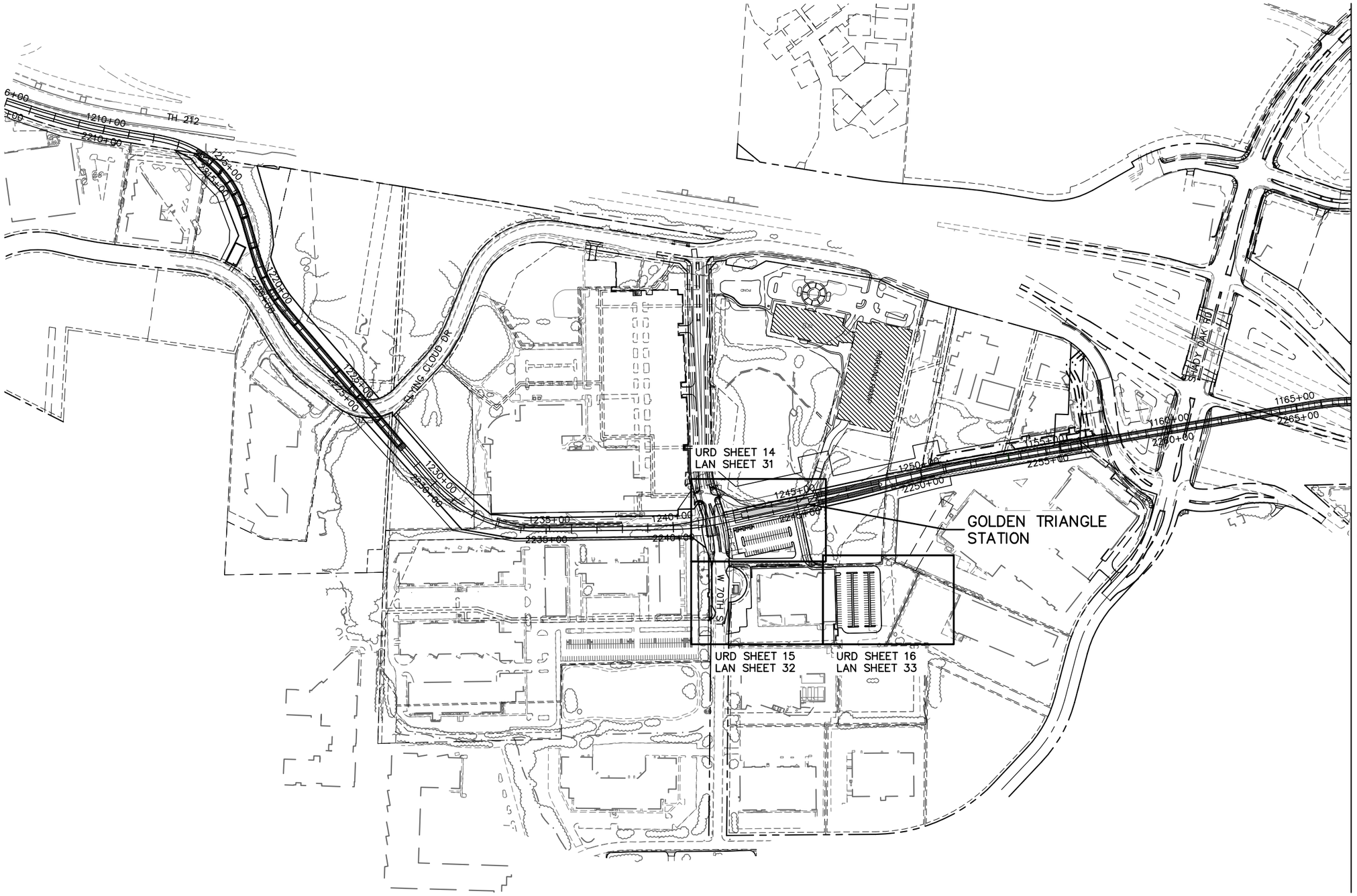

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
LANDSCAPE ARCH
PLAN SHEET LAYOUT
SHEET 2

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W2-LAN-LAY - 001

SHEET 7 OF 49

MATCH LINE - SHEET 2 OF 2

1170+00
2270+00
1175+00
2275+00
1180+00
2280+00
TH 212
1185+00
2285+00
1190+00
2290+00
2295+00
2300+00
2305+00
TH 62
1195+00
2310+00
1210+00
2315+00
2320+00
BREN RD E

CITY WEST STATION

URD SHEET 18
LAN SHEET 35

URD SHEET 17
LAN SHEET 34

0 100 200 400
HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
LANDSCAPE ARCH
PLAN SHEET LAYOUT
SHEET 3

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W2-LAN-LAY - 002

SHEET 8 OF 49

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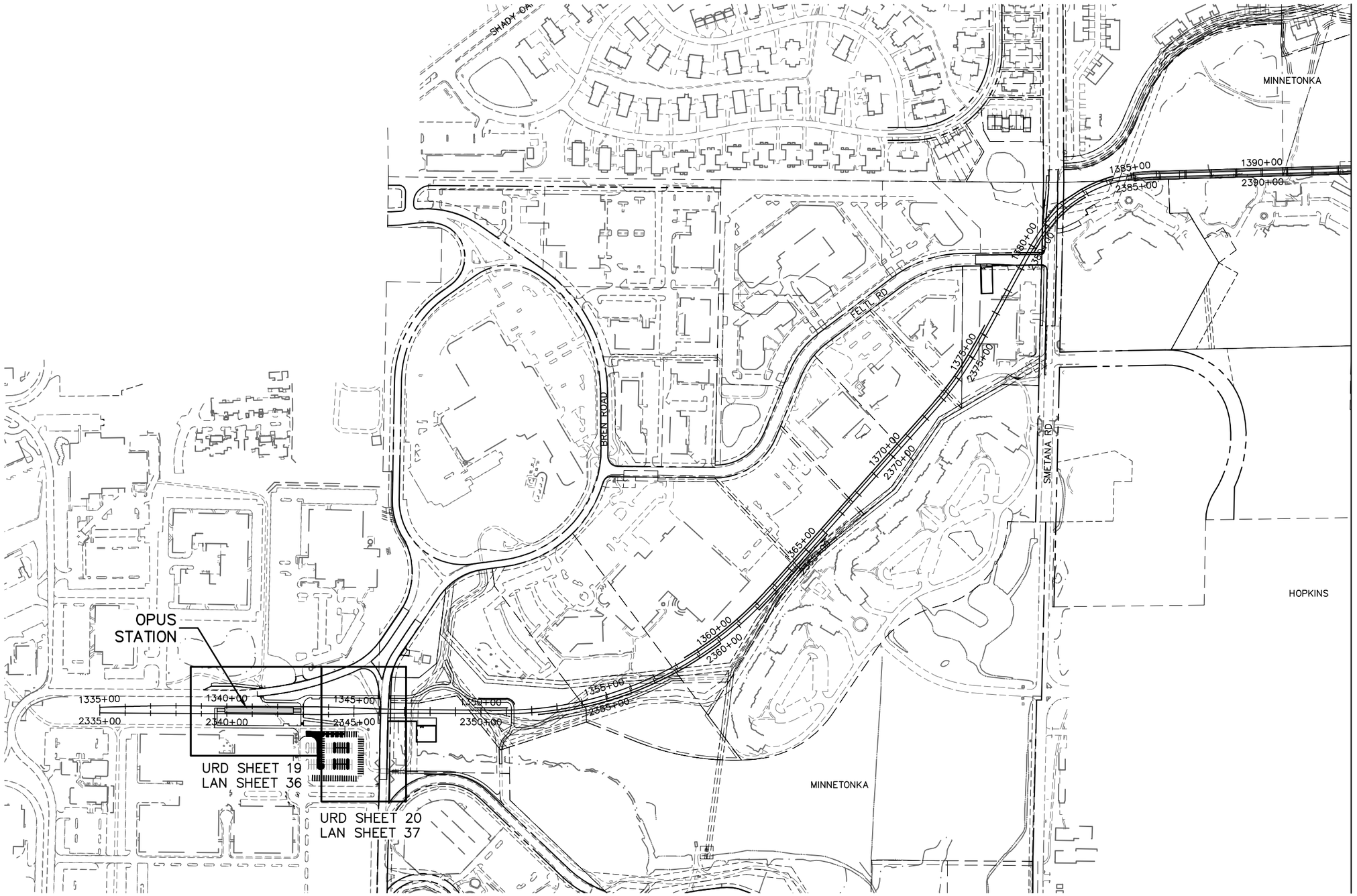

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
LANDSCAPE ARCH
PLAN SHEET LAYOUT
SHEET 4

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-LAN-LAY - 001

SHEET 9 OF 49

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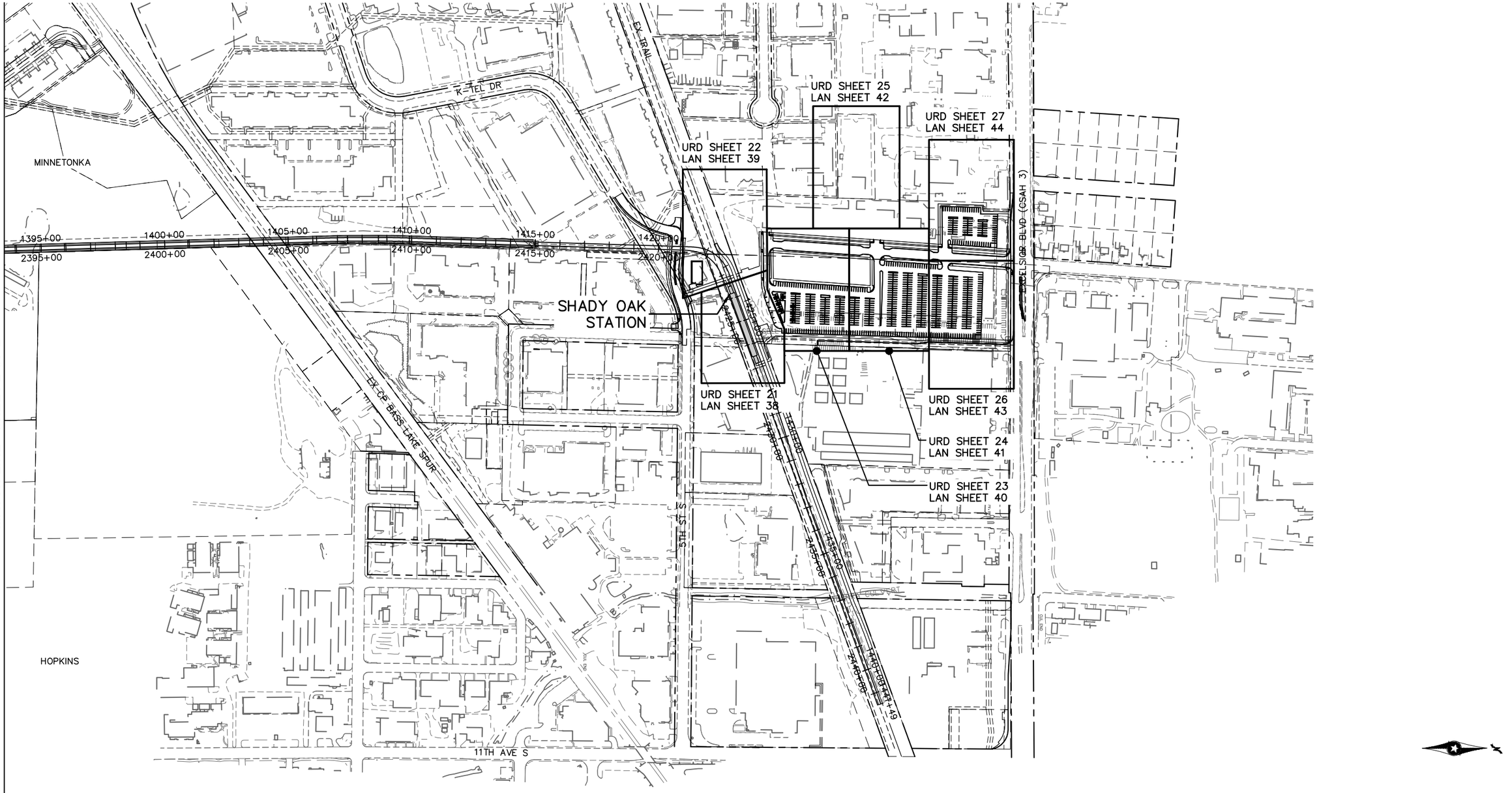

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
LANDSCAPE ARCH
PLAN SHEET LAYOUT
SHEET 5

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-LAN-LAY - 002

SHEET 10 OF 49

GENERAL LEGEND

- ROADWAY ℄
- TRACK ℄
- CONCRETE CURB AND GUTTER
- RETAINING WALL
- BALLAST CURB
- TUNNEL WALL
- EX ROW
- PROP ROW
- PROP TCE
- PROP PE
- DELINEATED WETLAND
- WATER EDGE
- CROSSWALK
- TRAIL (WIDTH VARIES)
- DRIVEWAY (DESIGN VARIES)
- PEDESTRIAN RAMP (DESIGN VARIES)
- AUTOMATIC GATE
- PEDESTRIAN FLASHER
- OCS POLE
- TPSS BUILDING (TPSS–SW###)
- SIGNAL OR INTERMEDIATE OR PLATFORM OR XING OR TUNNEL HOUSE OR ANY COMBINATION OF THESE

GENERAL LEGEND

- OVERSTORY DECIDUOUS TREE
- OVERSTORY DECIDUOUS TREE IN TREE GRATE
- ORNAMENTAL DECIDUOUS TREE
- CONIFEROUS TREE
- ROADWAY/PEDESTRIAN LIGHT

URBAN DESIGN LEGEND

- CONCRETE WALK
- WALK – SPECIAL PAVEMENT
- FENCE TYPE A
- FENCE TYPE B
- BUS SHELTER TYPE A (6'X12') (A)
- BUS SHELTER TYPE B (4'X12') (B)
- BENCH (6')
- BICYCLE LOOP
- TRASH AND RECYCLING RECEPTACLE
- BOLLARD

GENERAL NOTES

1. THE LINEWORK OR HATCH PATTERN SHOWN ON THE SIDEWALK IS PROVIDED TO HELP DELINEATE SIDEWALK LOCATIONS AND IS NOT INTENDED TO REPRESENT A JOINTING LAYOUT.
2. WHERE REQUIRED, ALL METAL URBAN DESIGN ELEMENTS INCLUDING FENCES, RAILINGS, AND BIKE RACKS ADJACENT TO TRACKWAY SHALL BE GROUNDED.

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
URBAN DESIGN
NOTES AND LEGEND

SHEET ---- OF XXX

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W0-URD-LGD - 001

Sep. 21 2015 02:05 pm v:\3400_ADC\CAD\OVERALL\PLAN SHEETS\LANDSCAPE\W0-URD-LGD.dwg By: akrzmarzick

NOTES:

MATCHLINE SHEET 2 OF 2

SW TRANSIT BUS STATION

℄ TRACK 2

℄ TRACK 1

2077+80

12+47

℄ BUS RAMP

EX ROW

PROP ROW

PROPOSED BMP

13' WALK

PROP TCE

PROP ROW

8' WALK

TECHNOLOGY DR

440+00

℄ TECHNOLOGY DR EB 1

0 10 20 40

HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SOUTHWEST STATION
URBAN DESIGN PLAN 1

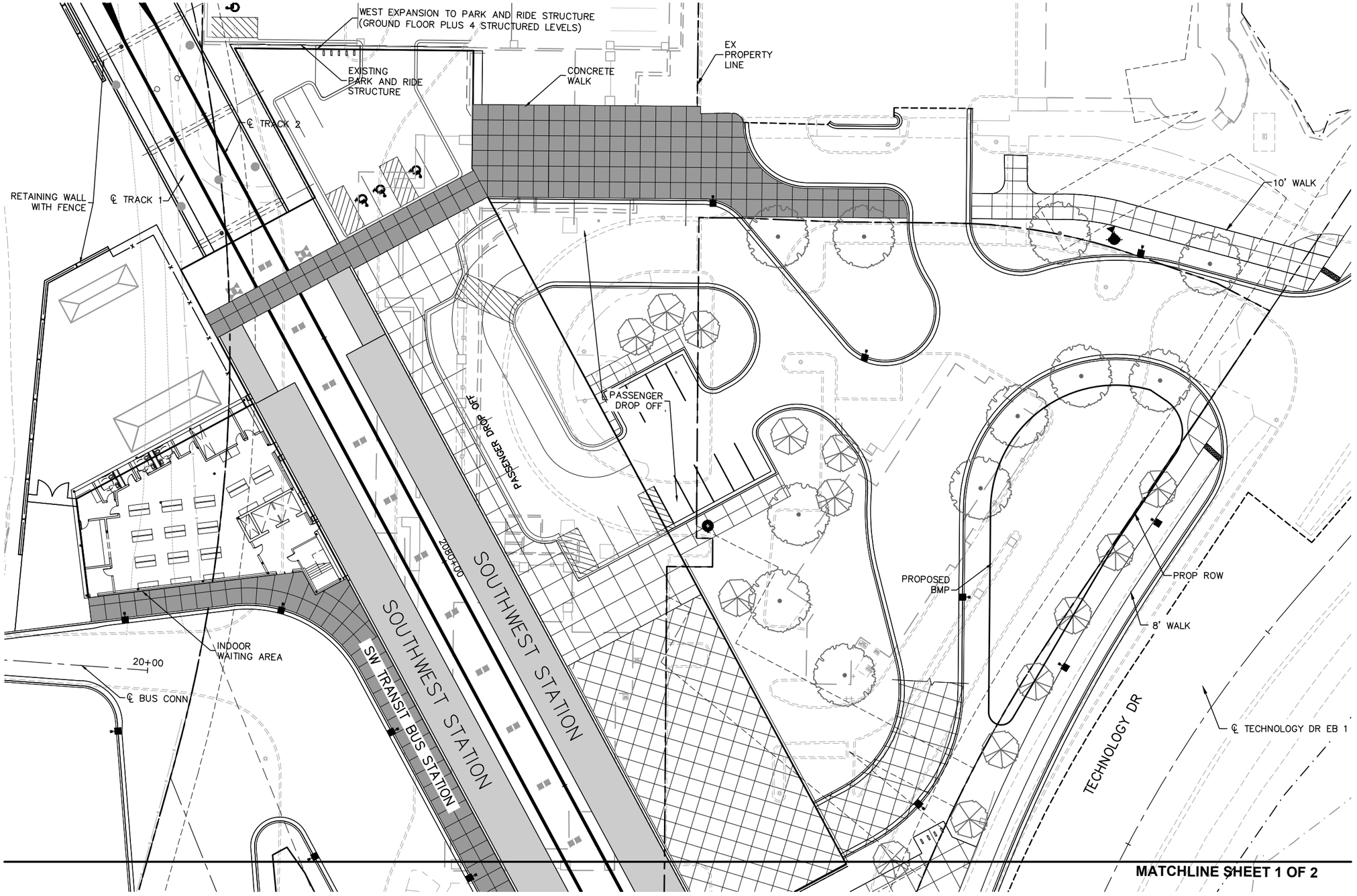
SHEET 12 OF 49

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W1-URD-PLN - 001

Sep. 21 2015 08:10 am v:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\LANDSCAPE\W1-URD-PLN.dwg By: akrzmarzick

NOTES:



0 10 20 40
HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SOUTHWEST STATION
URBAN DESIGN PLAN 2

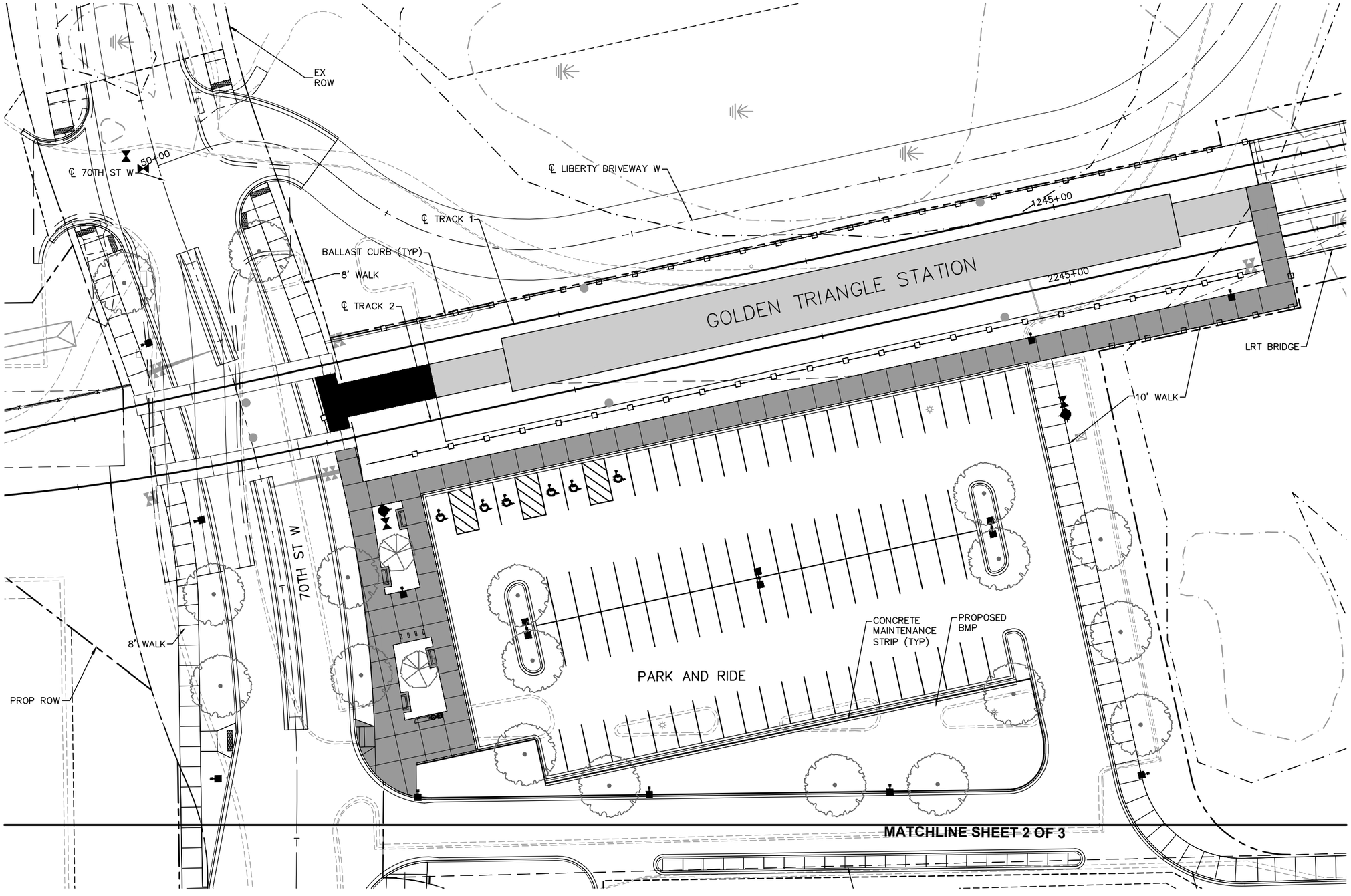
DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W1-URD-PLN - 002

SHEET 13 OF 49

Sep, 21 2015 08:10 am v:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\LANDSCAPE\W1-URD-PLN.dwg By: okrzmarzick

NOTE:



Sep. 21 2015 08:11 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\LANDSCAPE\W2-URD-PLN.dwg By: akrzmarzick

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
GOLDEN TRIANGLE STATION
URBAN DESIGN PLAN 1

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W2-URD-PLN - 001

SHEET 14 OF 49

NOTE:

MATCHLINE SHEET 1 OF 2

PAVED MEDIAN

10' WALK

8' WALK

BUS STOP / PASSENGER DROP OFF

305+00

BUS SHELTER

℄ 70TH ST W

BUS OPERATOR RESTROOM FACILITY WITH BUS SHELTER AND COVERED BICYCLE PARKING

BUS STOP / PASSENGER DROP OFF

8' WALK

70TH ST W

MATCHLINE SHEET 3 OF 3

0 10 20 40

HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
GOLDEN TRIANGLE STATION
URBAN DESIGN PLAN 2

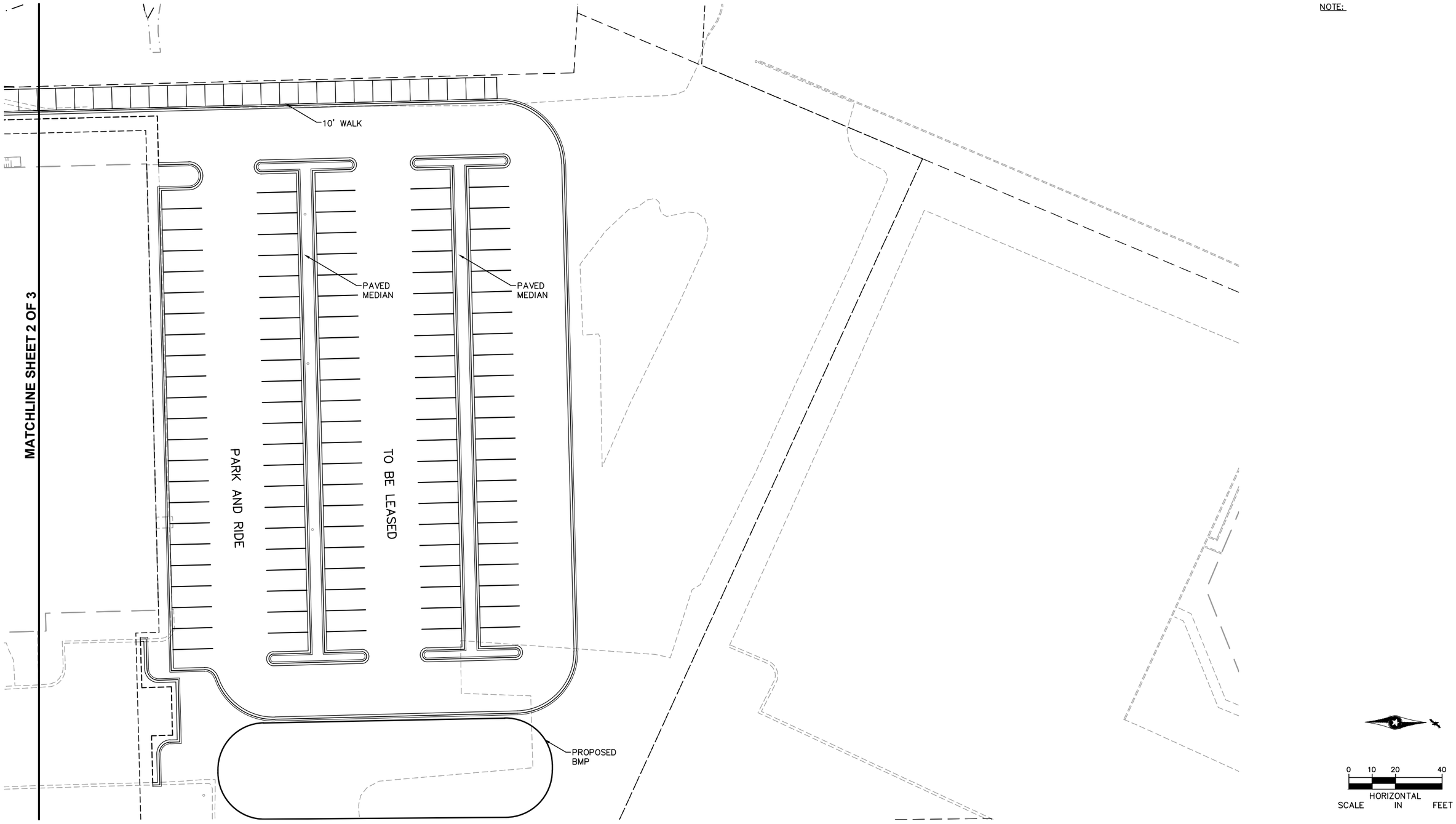
DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W2-URD-PLN - 002

SHEET 15 OF 49

Sep. 21 2015 08:12 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\LANDSCAPE\W2-URD-PLN.dwg By: akrzmarzick

NOTE:



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
GOLDEN TRIANGLE STATION
URBAN DESIGN PLAN 3

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W2-URD-PLN - 003

SHEET 16 OF 49

Sep, 21 2015 08:12 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\LANDSCAPE\W2-URD-PLN.dwg By: dkrzmarzick

NOTE:

MATCHLINE SHEET 2 OF 2

℄ W 62ND ST

127+02

PROPOSED BMP

PROPOSED BMP

PROPOSED BMP

LIGHT, TYP.

8' WALK

CONCRETE MAINTENANCE STRIP (TYP)

℄ TRACK 2

℄ TRACK 1

RETAINING WALL WITH FENCE

TPSS ACCESS

RETAINING WALL WITH FENCE

PROP ROW

0 10 20 40

HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
CITY WEST STATION
URBAN DESIGN PLAN 1

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W2-URD-PLN - 004

SHEET 17 OF 49

Sep, 21 2015 08:12 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\LANDSCAPE\W2-URD-PLN.dwg By: akrzmarzick

NOTE:

RETAINING WALL WITH FENCE

WB TH 62

EB TH 62

CITY WEST STATION

RETAINING WALL WITH FENCE

RETAINING WALL

℄ TRACK 1

℄ TRACK 2

2295+00

1295+00

125+00

PASSENGER DROP OFF

PAVED MEDIAN

LIGHT, TYP.

SEEDED MEDIAN

PROPOSED BMP

CONCRETE MAINTENANCE STRIP (TYP)

EX ROW

℄ W 62ND ST

8' WALK

MATCHLINE SHEET 1 OF 2

0 10 20 40

HORIZONTAL SCALE IN FEET

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

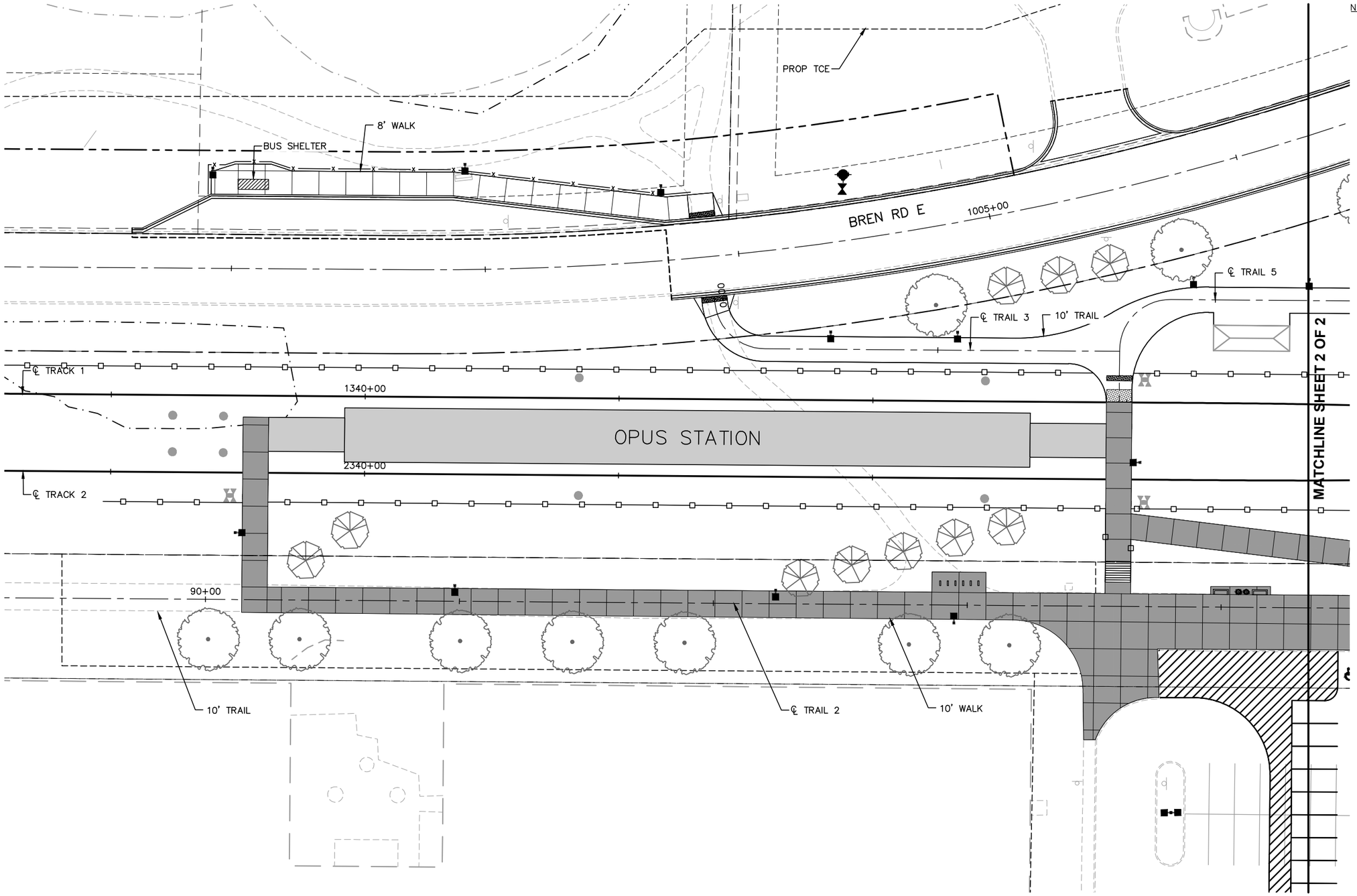
CIVIL WEST - VOLUME 9
CITY WEST STATION
URBAN DESIGN PLAN 2

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W2-URD-PLN - 005

SHEET 18 OF 49

NOTE:



0 10 20 40
HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
OPUS STATION
URBAN DESIGN PLAN 1

SHEET 19 OF 49

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-URD-PLN - 001

Sep. 21 2015 08:14 am v:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\LANDSCAPE\W3-URD-PLN.dwg By: akrzmarzick

NOTE:

BALLAST CURB (TYP)

RETAINING WALL WITH FENCE

55+00

40+00

℄ BREN RD LT TURN

BREN RD W

℄ BREN RD W

EX PROPERTY LINE

℄ TRAIL 2

℄ TRAIL 5

℄ TRACK 1

℄ TRACK 2

1345+00

2345+00

95+00

℄ BREN RD E

10' TRAIL

EX ROW

MATCHLINE SHEET 1 OF 2

0 10 20 40

SCALE HORIZONTAL IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
OPUS STATION
URBAN DESIGN PLAN 2

SHEET 20 OF 49

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-URD-PLN - 002

Sep. 21 2015 08:15 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\LANDSCAPE\W3-URD-PLN.dwg By: akrzmarzick

NOTE:

MATCHLINE SHEET 3 OF 7

PASSENGER DROP OFF

EX CELL TOWER

10' WALK

POTENTIAL RETAINING WALL

12' BITUMINOUS TRAIL

EX ROW

BALLAST CURB (TYP)

℄ CEDAR LAKE LRT REGIONAL TR

℄ TRACK 1

℄ TRACK 2

TICKET VENDING MACHINES

S

5+00

1425+00

2425+00

SHADY OAK STATION

MATCHLINE SHEET 2 OF 7

10' WALK

0 10 20 40

HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SHADY OAK STATION
URBAN DESIGN PLAN 1

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-URD-PLN - 003

SHEET 21 OF 49

Sep, 21 2015 08:15 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\LANDSCAPE\W3-URD-PLN.dwg By: akrzmarzick

MATCHLINE SHEET 3 OF 7

NOTE:

8+00

℄ 17TH AVE S

TICKET VENDING MACHINES

12' BITUMINOUS TRAIL

℄ CEDAR LAKE LRT REGIONAL TR

EX ROW

0+00

BALLAST CURB (TYP)

10' WALK

MATCHLINE SHEET 4 OF 7

0 10 20 40

HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SHADY OAK STATION
URBAN DESIGN PLAN 2

SHEET 22 OF 49

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-URD-PLN - 004

Sep. 21 2015 08:15 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\LANDSCAPE\W3-URD-PLN.dwg By: akrzmarzick

MATCHLINE SHEET 4 OF 7

MATCHLINE SHEET 5 OF 7

PROPOSED BMP

8' WALK

℄ 17TH AVE S

10' PROTECTED BIKEWAY

10+00

8' WALK

10' WALK

12' WALK

EX PROPERTY LINE

10' WALK

POTENTIAL RETAINING WALL

EX CELL TOWER

PASSENGER DROP OFF

MATCHLINE SHEET 1 OF 7

NOTE:

0 10 20 40

HORIZONTAL SCALE IN FEET

Sep. 21 2015 08:15 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\LANDSCAPE\W3-URD-PLN.dwg By: akrzmarzick

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SHADY OAK STATION
URBAN DESIGN PLAN 3

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-URD-PLN - 005

SHEET 23 OF 49

MATCHLINE SHEET 6 OF 7

MATCHLINE SHEET 5 OF 7

15+00

8' WALK

8' WALK

10' PROTECTED BIKEWAY

℄ 17TH AVE S

PAVED MEDIAN

PROPOSED BMP

12' WALK

EX PROPERTY LINE

NOTE:

MATCHLINE SHEET 3 OF 7

0 10 20 40

HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SHADY OAK STATION
URBAN DESIGN PLAN 4

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-URD-PLN - 006

SHEET 24 OF 49

Sep. 21 2015 08:16 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\LANDSCAPE\W3-URD-PLN.dwg By: okrzmarzick

NOTE:

NO URBAN DESIGN ON THIS PAGE

MATCHLINE SHEET 4 OF 7

MATCHLINE SHEET 3 OF 7

PROPOSED BMP

8' WALK

10' PROTECTED BIKEWAY

0 10 20 40

HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SHADY OAK STATION
URBAN DESIGN PLAN 5

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-URD-PLN - 007

SHEET 25 OF 49

Sep. 21 2015 08:16 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\LANDSCAPE\W3-URD-PLN.dwg By: dkrzmarzick

NOTE:

℄ 17TH AVE S

8' WALK

PROP ROW

10' WALK

MATCHLINE SHEET 7 OF 7

MATCHLINE SHEET 4 OF 7

0 10 20 40

HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SHADY OAK STATION
URBAN DESIGN PLAN 6

SHEET 26 OF 49

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-URD-PLN - 008

Sep. 21 2015 08:16 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\LANDSCAPE\W3-URD-PLN.dwg By: akrzmarzick

NOTE:

℄ 17TH AVE S

8' WALK

10' PROTECTED BIKEWAY

8' WALK

8' WALK

15+00

MATCHLINE SHEET 6 OF 7

MATCHLINE SHEET 4 OF 7

0 10 20 40
HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

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CIVIL WEST - VOLUME 9
SHADY OAK STATION
URBAN DESIGN PLAN 7

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-URD-PLN - 009

SHEET 27 OF 49

Sep, 21 2015 08:16 am v:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\LANDSCAPE\W3-URD-PLN.dwg By: akrzmarzick

GENERAL LEGEND

- ROADWAY ℄
- TRACK ℄
- CONCRETE CURB AND GUTTER
- RETAINING WALL
- BALLAST CURB
- TUNNEL WALL
- EX ROW
- PROP ROW
- PROP TCE
- PROP PE
- DELINEATED WETLAND
- WATER EDGE
- CROSSWALK
- TRAIL (WIDTH VARIES)
- DRIVEWAY (DESIGN VARIES)
- PEDESTRIAN RAMP (DESIGN VARIES)
- AUTOMATIC GATE
- PEDESTRIAN FLASHER
- OCS POLE
- TPSS BUILDING (TPSS–SW###)
- SIGNAL OR INTERMEDIATE OR PLATFORM OR XING OR TUNNEL HOUSE OR ANY COMBINATION OF THESE
- FENCE
- BUS SHELTER (A / B)
- ROADWAY/PEDESTRIAN LIGHT

LANDSCAPE LEGEND

- OVERSTORY DECIDUOUS TREE
- OVERSTORY DECIDUOUS TREE IN TREE GRATE
- ORNAMENTAL DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUBS AND PERENNIALS
- SOD
- SEED TYPE 1 – TURF SEED
- SEED TYPE 2 – NATIVE SEED
- SEED TYPE 3 – BMP
- SEED TYPE 4 – WETLAND RESTORATION

GENERAL NOTES

1. EXISTING TURF AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REVEGETATED WITH SOD OR SEEDED. CIVIL DRAWINGS ILLUSTRATE A TEMPORARY CONSTRUCTION EASEMENT (TCE), WHICH IDENTIFIES THE LIMITS OF CONSTRUCTION ACTIVITIES; HOWEVER, LIMITS OF ACTUAL DISTURBANCE THAT WOULD REQUIRE SOD OR SEED INSTALLATION MAY NOT COINCIDE WITH THE TCE.
2. ALL EXISTING VEGETATION WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED. PROTECT EXISTING VEGETATION NOTED TO REMAIN INCLUDING TREES, SHRUBS, & OTHER PLANTINGS.

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

DESIGNED BY: | CHECKED BY:
DRAWN BY: | DATE:

AECOM Kimley»Horn

60% SUBMISSION - 09/28/15

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
LANDSCAPE
NOTES AND LEGEND

DISCIPLINE: **LANDSCAPE ARCH**
SHEET NAME: **W0-LAN-LGD - 001**

SHEET ---- OF XXX

Sep, 21 2015 02:09 pm v:\3400_ADC\CAD\OVERALL\PLAN SHEETS\LANDSCAPE\W0-LAN-LGD.dwg By: dkrzmarzick

NOTES:

MATCHLINE SHEET 2 OF 2

SW TRANSIT BUS STATION

℄ TRACK 2

℄ TRACK 1

2077+80

12+47

℄ BUS RAMP

EX ROW

PROP ROW

PROPOSED BMP

PROP TCE

13' WALK

PROP ROW

8' WALK

TECHNOLOGY DR

440+00

℄ TECHNOLOGY DR EB 1

0 10 20 40

HORIZONTAL SCALE IN FEET

Sep. 21 2015 08:18 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\LANDSCAPE\W1-LAN-PLN.dwg By: akrzmarzick

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SOUTHWEST STATION
LANDSCAPE PLAN 1

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: 29 - W1-LAN-PLN - 001

SHEET 29 OF 49

NOTES:

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SOUTHWEST STATION
LANDSCAPE PLAN 2

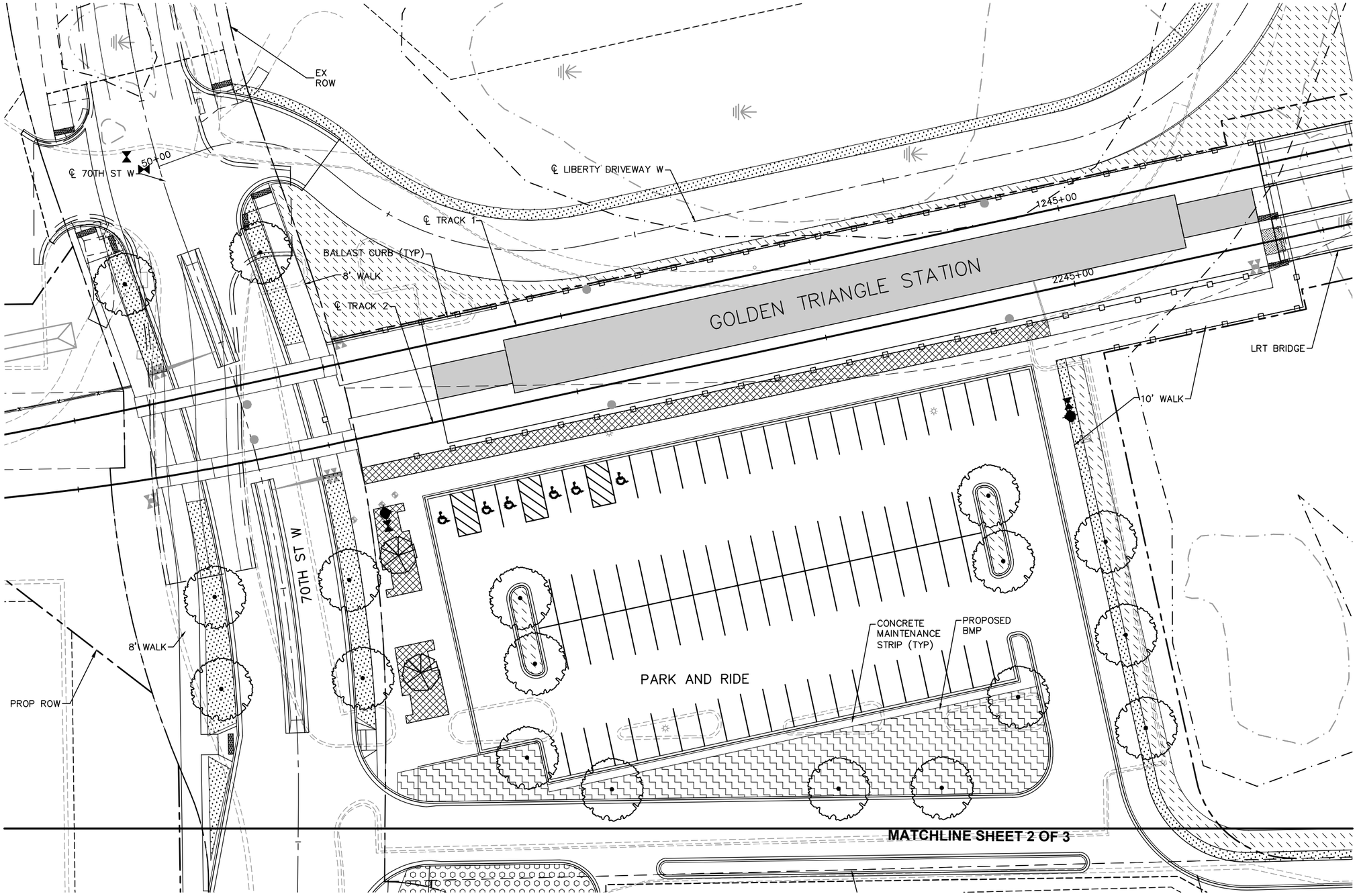
SHEET 30 OF 49

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: 30 - W1-LAN-PLN - 002

Sep. 21 2015 08:18 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\LANDSCAPE\W1-LAN-PLN.dwg By: dkrzmarzick

NOTE:



0 10 20 40
HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
GOLDEN TRIANGLE STATION
LANDSCAPE PLAN 1

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W2-LAN-PLN - 001

SHEET 31 OF 49

Sep, 21 2015 08:19 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\LANDSCAPE\W2-LAN-PLN.dwg By: okrzmarzick

NOTE:

MATCHLINE SHEET 1 OF 2

PAVED MEDIAN

10' WALK

8' WALK

BUS STOP / PASSENGER DROP OFF

305+00

BUS OPERATOR RESTROOM FACILITY WITH BUS SHELTER AND COVERED BICYCLE PARKING

BUS SHELTER

℄ 70TH ST W

BUS STOP / PASSENGER DROP OFF

8' WALK

70TH ST W

MATCHLINE SHEET 3 OF 3

0 10 20 40

HORIZONTAL SCALE IN FEET

Sep. 21 2015 08:20 am v:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\LANDSCAPE\W2-LAN-PLN.dwg By: akrzmarzick

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

60% SUBMISSION - 09/28/15

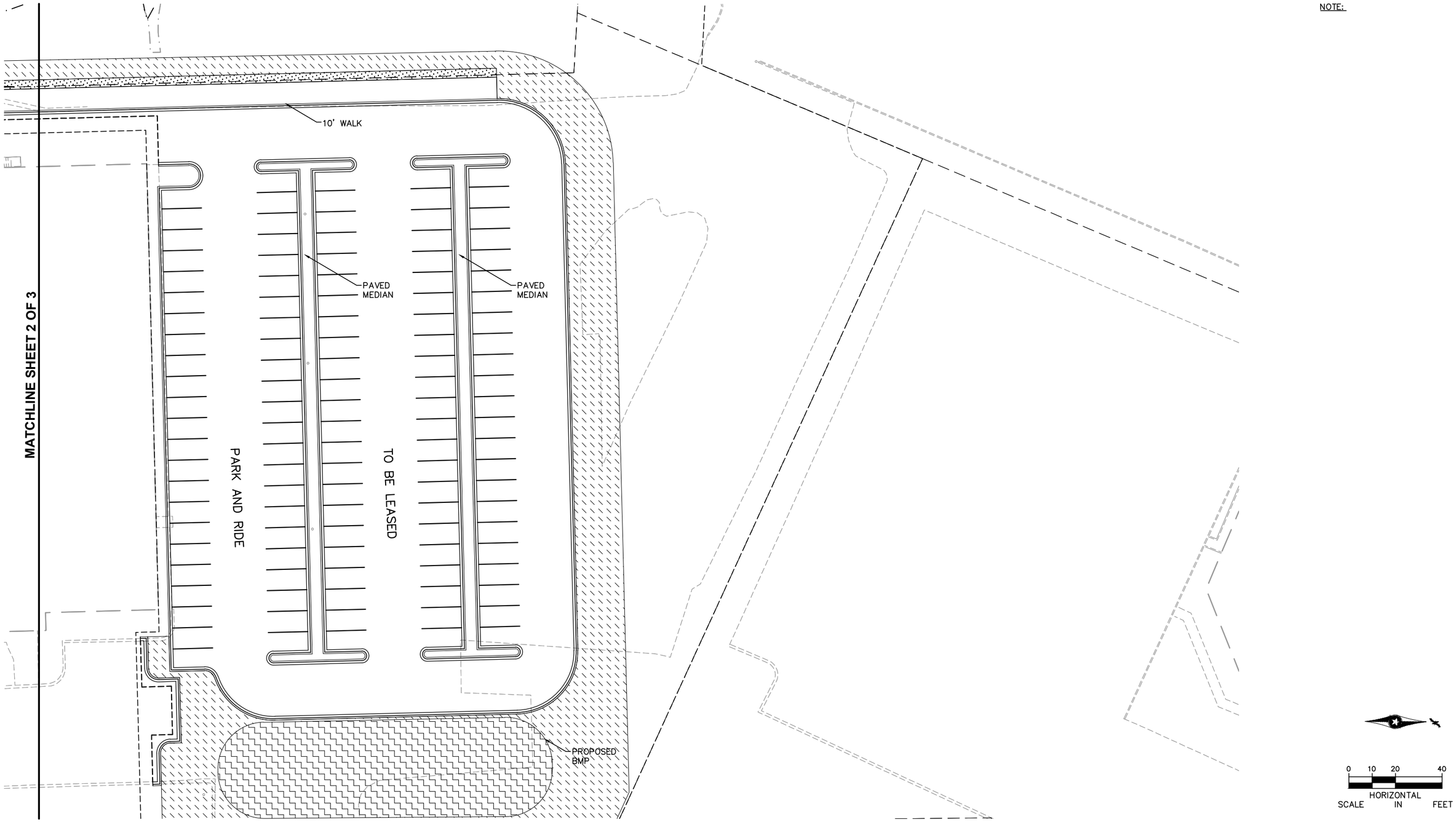
CIVIL WEST - VOLUME 9
GOLDEN TRIANGLE STATION
LANDSCAPE PLAN 2

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W2-LAN-PLN - 002

SHEET 32 OF 49

NOTE:



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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60% SUBMISSION - 09/28/15

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
GOLDEN TRIANGLE STATION
LANDSCAPE PLAN 3

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W2-LAN-PLN - 003

SHEET 33 OF 49

Sep, 21 2015 08:20 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\LANDSCAPE\W2-LAN-PLN.dwg By: akrzmarzick

MATCHLINE SHEET 2 OF 2

℄ W 62ND ST

127+02

PROPOSED BMP

PROPOSED BMP

PROPOSED BMP

℄ TRACK 2

℄ TRACK 1

RETAINING WALL WITH FENCE

TPSS ACCESS

RETAINING WALL WITH FENCE

PROP ROW

8' WALK

CONCRETE MAINTENANCE STRIP (TYP)

NOTE:

0 10 20 40

HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

SRF Consulting Group, Inc.

60% SUBMISSION - 09/28/15

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
CITY WEST STATION
LANDSCAPE PLAN 1

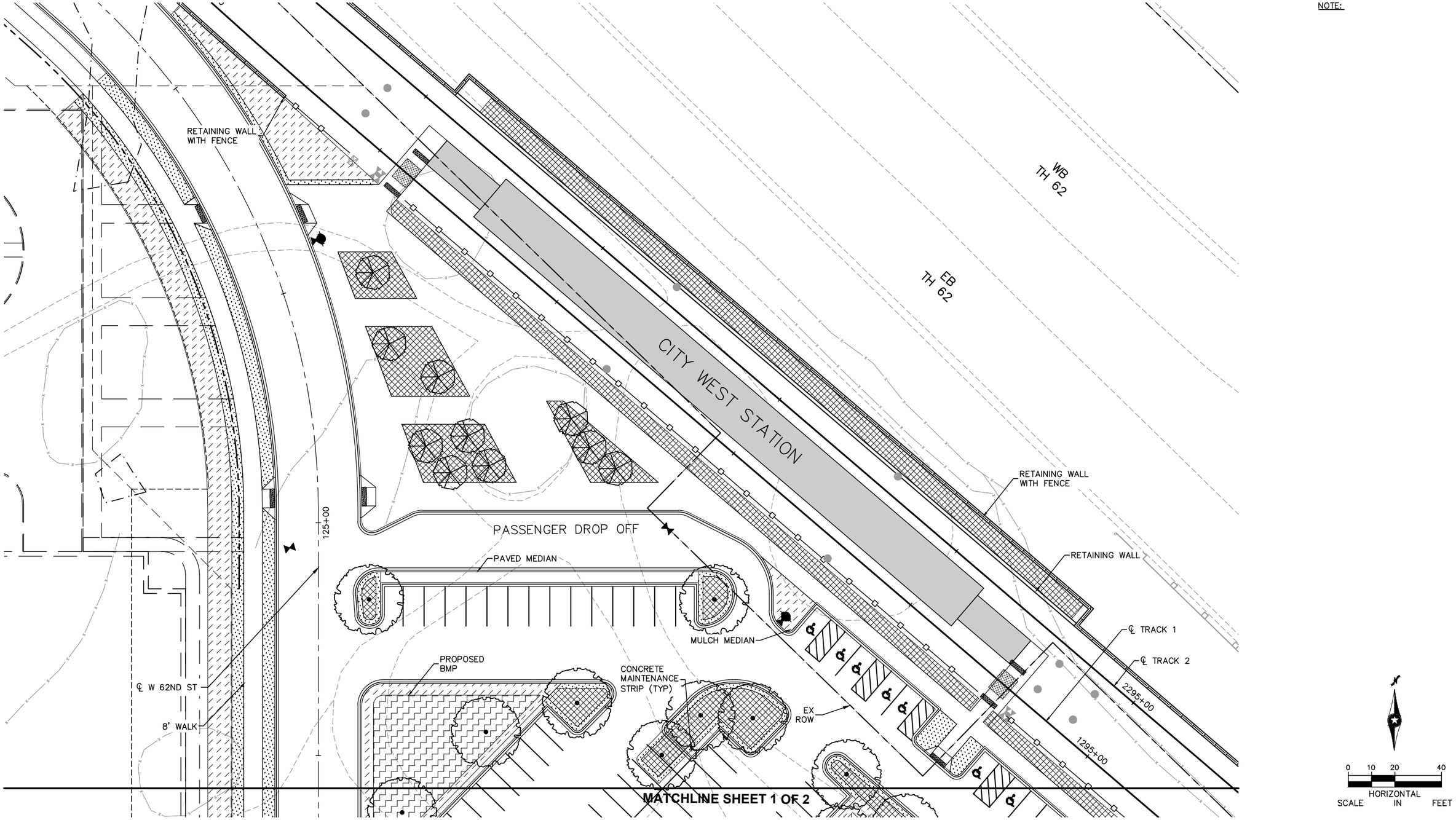
DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W2-LAN-PLN - 004

SHEET 34 OF 49

Sep, 21 2015 08:20 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\LANDSCAPE\W2-LAN-PLN.dwg By: akrzmarzick

NOTE:



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
CITY WEST STATION
LANDSCAPE PLAN 2

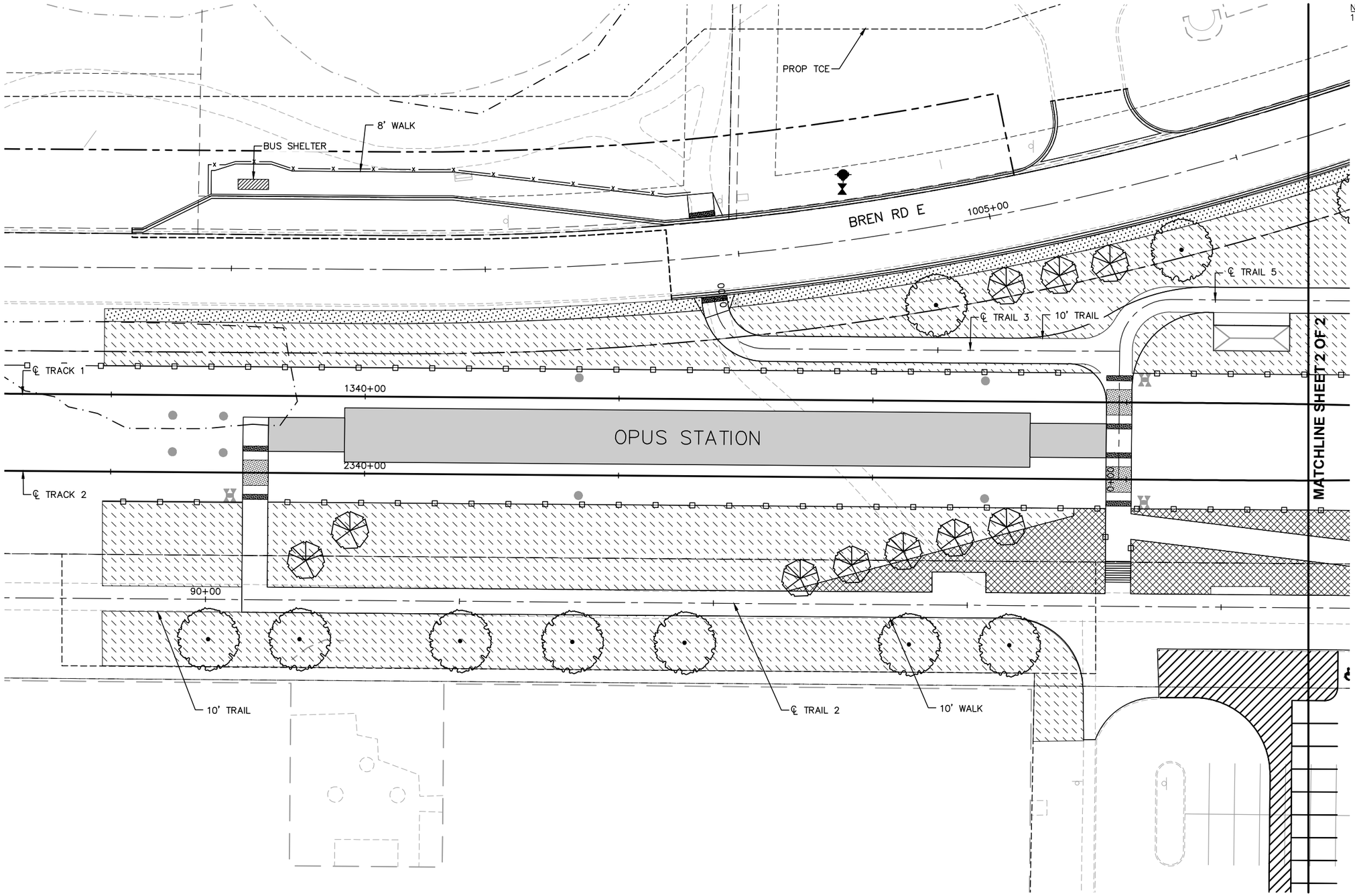
DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W2-LAN-PLN - 005

SHEET 35 OF 49

Sep, 21 2015 08:20 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\LANDSCAPE\W2-LAN-PLN.dwg By: akrzmarzick

NOTE:
1. ADJUST TREE LOCATIONS TO RETAIN EXISTING TREES EAST OF STATION.



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
OPUS STATION
LANDSCAPE PLAN 1

SHEET 36 OF 49

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-LAN-PLN - 001

Sep. 21 2015 08:22 am v:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\LANDSCAPE\W3-LAN-PLN.dwg By: akrzmarzick

NOTE:
1. ADJUST TREE LOCATIONS TO RETAIN EXISTING TREES AROUND PARKING LOT.

BALLAST CURB (TYP)

55+00

40+00

℄ BREN RD LT TURN

BREN RD W

RETAINING WALL WITH FENCE

℄ BREN RD W

EX PROPERTY LINE

10' TRAIL

℄ TRAIL 2

℄ TRAIL 5

℄ TRACK 1

℄ TRACK 2

1345+00

2345+00

℄ BREN RD E

10' TRAIL

EX ROW

MATCHLINE SHEET 1 OF 2

0 10 20 40
HORIZONTAL SCALE IN FEET

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SOUTHWEST Green Line LRT Extension

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CIVIL WEST - VOLUME 9
OPUS STATION
LANDSCAPE PLAN 2

SHEET 37 OF 49

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-LAN-PLN - 002

NOTE:

MATCHLINE SHEET 3 OF 7

PASSENGER DROP OFF

EX CELL TOWER

12' BITUMINOUS TRAIL

EX ROW

BALLAST CURB (TYP)

10' WALK

℄ CEDAR LAKE LRT REGIONAL TR

POTENTIAL RETAINING WALL

℄ TRACK 1

℄ TRACK 2

5+00

1425+00

2425+00

SHADY OAK STATION

MATCHLINE SHEET 2 OF 7

10' WALK

0 10 20 40

HORIZONTAL SCALE IN FEET

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SHADY OAK STATION
LANDSCAPE PLAN 1

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-LAN-PLN - 003

SHEET 38 OF 49

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NOTE:

MATCHLINE SHEET 3 OF 7

8+00

℄ 17TH AVE S

12' BITUMINOUS TRAIL

℄ CEDAR LAKE LRT REGIONAL TR

EX ROW

0+00

BALLAST CURB (TYP)

℄ TRACK 1

℄ TRACK 2

10' WALK

MATCHLINE SHEET 1 OF 7

N

0 10 20 40

HORIZONTAL SCALE IN FEET

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

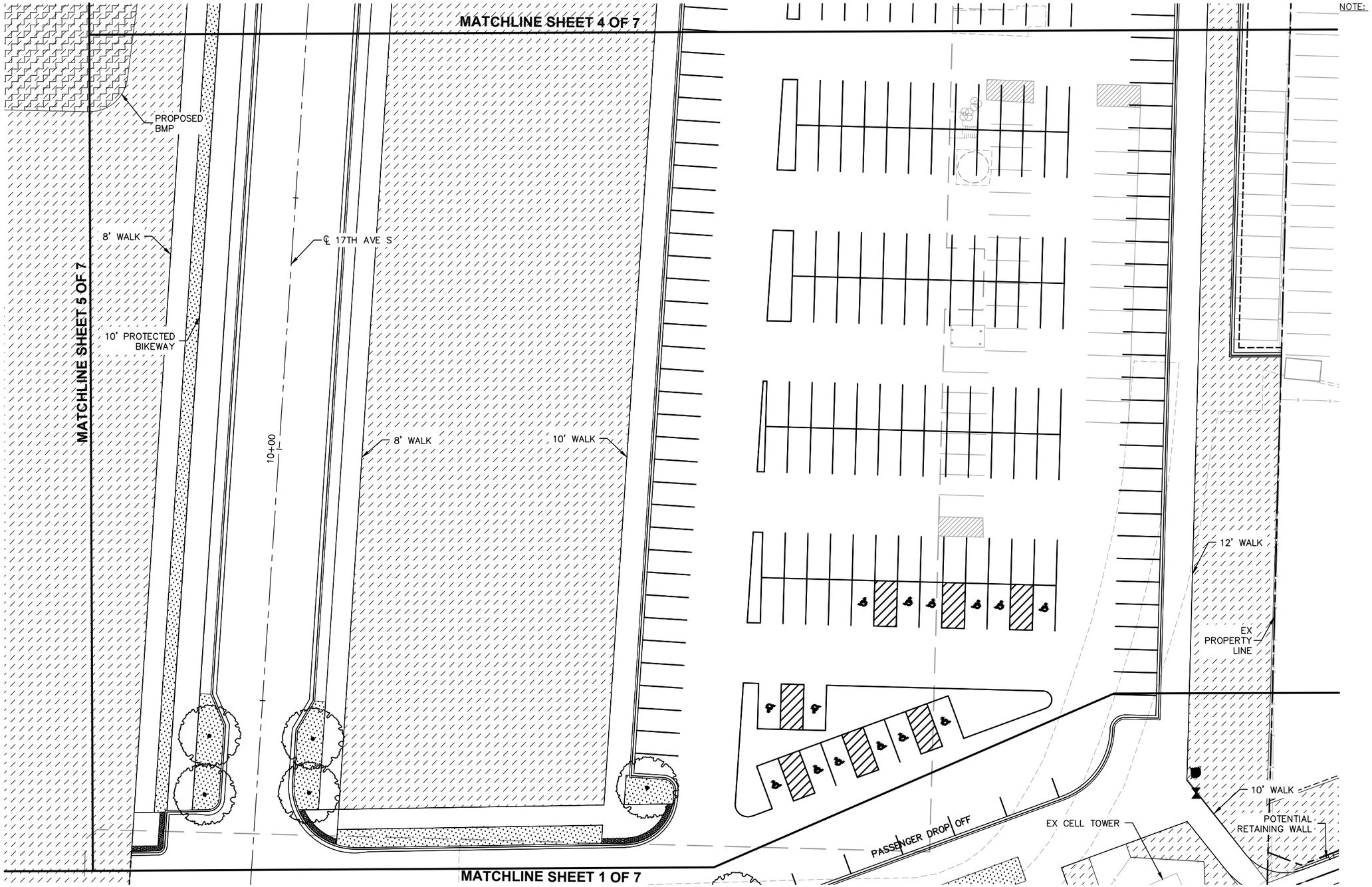
CIVIL WEST - VOLUME 9
SHADY OAK STATION
LANDSCAPE PLAN 2

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-LAN-PLN - 004

SHEET 39 OF 49

Sep. 21 2015 08:23 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\LANDSCAPE\W3-LAN-PLN.dwg By: akrzmarzick



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SHADY OAK STATION
LANDSCAPE PLAN 3

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-LAN-PLN - 005

SHEET 40 OF 49

Sep. 21 2015 08:23 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\LANDSCAPE\W3-LAN-PLN.dwg By: okrzmarzick

MATCHLINE SHEET 6 OF 7

MATCHLINE SHEET 5 OF 7

15+00

8' WALK

8' WALK

10' PROTECTED BIKEWAY

℄ 17TH AVE S

PAVED MEDIAN

PROPOSED BMP

12' WALK

EX PROPERTY LINE

NOTE:

MATCHLINE SHEET 3 OF 7

0 10 20 40

HORIZONTAL SCALE IN FEET

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SHADY OAK STATION
LANDSCAPE PLAN 4

SHEET 41 OF 49

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-LAN-PLN - 006

NOTE:

MATCHLINE SHEET 4 OF 7

MATCHLINE SHEET 3 OF 7

PROPOSED BMP

8' WALK

10' PROTECTED BIKEWAY

0 10 20 40

HORIZONTAL SCALE IN FEET

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SHADY OAK STATION
LANDSCAPE PLAN 5

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-LAN-PLN - 007

SHEET 42 OF 49

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NOTE:

℄ 17TH AVE S

MATCHLINE SHEET 7 OF 7

8' WALK

PROP ROW

10' WALK

MATCHLINE SHEET 4 OF 7

0 10 20 40

HORIZONTAL SCALE IN FEET

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SHADY OAK STATION
LANDSCAPE PLAN 6

SHEET 43 OF 49

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-LAN-PLN - 008

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NOTE:

℄ 17TH AVE S

8' WALK

10' PROTECTED BIKEWAY

8

MATCHLINE SHEET 6 OF 7

℄ 17TH AVE S

15+00

MATCHLINE SHEET 4 OF 7

0 10 20 40

HORIZONTAL SCALE IN FEET

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 9
SHADY OAK STATION
LANDSCAPE PLAN 7

SHEET 44 OF 49

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W3-LAN-PLN - 009

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GENERAL NOTES

SEE SPECIAL PROVISIONS FOR SPECIFIC PROJECT REQUIREMENTS.

REFER TO MnDOT SPECIFICATIONS 2571, 3861, AND THE "2016 INSPECTION AND CONTRACT ADMINISTRATION MANUAL FOR MnDOT LANDSCAPE PROJECTS" FOR GENERAL REQUIREMENTS.

COMPLETE PREPARATORY WORK BEFORE STARTING INITIAL PLANTING OPERATIONS.

ACCEPT ALL PLANT STOCK IN ACCORDANCE WITH MnDOT 3861 PRIOR TO PLANTING.

THE CONTRACTOR WILL DEMONSTRATE COMPETENCY FOR SOIL CULTIVATION OPERATIONS IN ACCORDANCE WITH (MnDOT 2571.3D2 STEP 4)

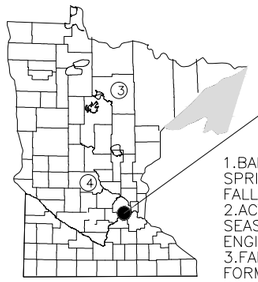
THE CONTRACTOR WILL DEMONSTRATE COMPETENCY FOR ALL PLANT INSTALLATION OPERATIONS IN ACCORDANCE WITH MnDOT 2571.3F1

RODENT PROTECTION	SEE SPECIAL PROVISIONS AND STANDARD PLANTING DETAILS (C)
FERTILIZER	SEE SPECIAL PROVISIONS
COMPOST	MnDOT 3890 GRADE 2 UNLESS OTHERWISE SPECIFIED.
MULCH MATERIAL	MnDOT 3882 TYPE 6 UNLESS OTHERWISE SPECIFIED.
MASS PLANTING BEDS	PREPARE MASS PLANTING BEDS FOR PLANTS PLACED AT 6' OR LESS, UNLESS OTHERWISE SPECIFIED ON SHEETS. PLANT BEDS IN STAGGERED ROWS ON THE PERIMETER FIRST, THEN UNIFORMLY FILL IN WITH REMAINING PLANTS. USE TRIANGULAR SPACING, UNLESS SPECIFIED OTHERWISE. PROVIDE 5' RADIUS CLEAR OF SHRUBS AROUND EACH DECIDUOUS TREE AND 8' CLEAR RADIUS AROUND EACH CONIFER TREE. RADIUS WILL BE MEASURED FROM THE CENTER OF THE TREE TO THE CENTER OF THE SHRUB. NOTIFY ENGINEER OF GROSS PLANT QUANTITY SURPLUS OR DEFICIENCY IMMEDIATELY. MULCH ENTIRE MASS PLANTING BED. SEE STANDARD PLANTING DETAILS (C)
TREE PAINTING (FROST CRACK PREVENTION)	NO PAINTING OF TREE STEMS SHALL BE REQUIRED.
PLANTING PLAN DIMENSIONS	STATED DIMENSIONS SUPERCEDE SCALING FROM PLAN.

WATERING GUIDELINES (MnDOT 2571.3G)

PLANT TYPE	AVERAGE GALLONS OF WATER PER APPLICATION
MACHINE TRANSPLANTED TREES	50–100
BALLED AND BURLAPPED TREES	20
BARE ROOT AND CONTAINER TREES	15
BALLED AND BURLAPPED SHRUBS	10
BARE ROOT AND CONTAINER SHRUBS	7
WOODY SEEDLINGS	4
PERENNIALS AND VINES	3

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MONITOR AND MAINTAIN SOIL MOISTURE AT ADEQUATE BUT NOT EXCESSIVE LEVELS. THE AMOUNTS LISTED ABOVE ARE GUIDELINES, NOT REQUIREMENTS.



PROJECT LOCATION

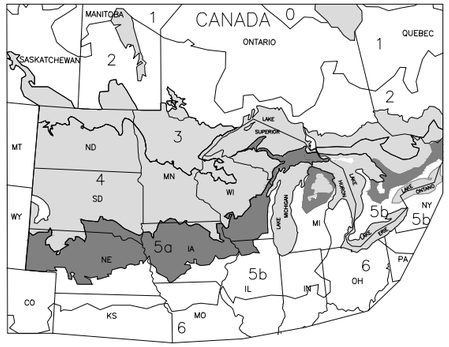
1.BARE ROOT PERENNIALS MUST BE INSTALLED IN THE SPRING NO LATER THAN JUNE 1ST OR FOLLOW THE FALL DECIDUOUS PLANTING DATES.
2.ACTUAL DATES MAY CHANGE DEPENDING UPON SEASONAL CONDITIONS, AS DETERMINED BY THE ENGINEER.
3.FALL PLANTING IS NOT ALLOWED FOR BARE ROOT FORM OF THE FOLLOWING SPECIES: HAWTHORN, DOGWOOD, POPLAR, HACKBERRY, LINDEN, IRONWOOD, HONEYLOCUST, BIRCH, MOUNTAIN ASH, MAPLE, WILLOW, CRABAPPLE, PLUM/CHERRY, OAKS, AND SUMAC.
4.ALL REPLACEMENT PLANTS MUST BE INSTALLED DURING THE MONTH OF MAY DURING THE FIRST YEAR OF THE PLANT ESTABLISHMENT PERIOD.

PLANTING DATES BY ZONE

KEY	SPRING				FALL	
	DECIDUOUS	CONIFEROUS	PERENNIALS	SEEDLINGS	DECIDUOUS	CONIFEROUS
③	APRIL 21 TO JUNE 1	APRIL 21 TO JUNE 1	MAY 1 TO JUNE 15	APRIL 21 TO JUNE 1	OCT. 1 TO NOV. 1	AUG. 25 TO SEPT. 15
④	APRIL 7 TO JUNE 1	APRIL 7 TO MAY 17	MAY 1 TO JUNE 15	APRIL 7 TO MAY 17	OCT. 10 TO NOV. 15	AUG. 25 TO SEPT. 15

PLANT INSTALLATION PERIOD

(MnDOT 2571.3F2)



ACCEPTABLE ZONES		
ZONES	LEGEND	MIN. TEMP
3		−34°4 TO −40° F
4		−28°9 TO −34.4° F
5a		−26°1 TO −28.9° F

UNACCEPTABLE ZONES	
ZONES	LEGEND
0, 1, 2, 5b and 6	

FOR ALL PLANT STOCK, DOCUMENT ACCEPTABILITY FOR HARDINESS IN THE MINNESOTA ZONE WHERE THE PROJECT SITE IS LOCATED, AS FOLLOWS:

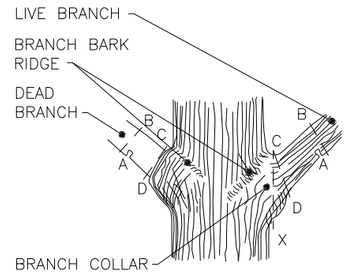
A.PLANT STOCK CONTINUOUSLY GROWN FOR AT LEAST THE LAST TWO YEARS WITHIN THE ACCEPTABLE LIMITS SHOWN.

OR

B.PLANT STOCK, GROWN OUTSIDE THE ACCEPTABLE GROWING RANGE LIMITS, HAVING SEED SOURCE OR ROOT AND GRAFT STOCK ORIGINATING FROM THE ACCEPTABLE LIMITS SHOWN.

ACCEPTABLE PLANT STOCK GROWING RANGE LIMITS

SOURCE: USDA PLANT HARDINESS ZONE MAP (MnDOT 3861.2C)



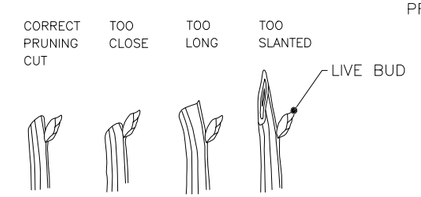
BRANCHES PRUNED AT TRUNK

(SHIGO METHOD)

STEPS TO PRUNING WITH PRUNING SAW:
1.CUT PART WAY THROUGH THE BRANCH AT POINT A.
2.CUT COMPLETELY THROUGH BRANCH FROM POINT B TO A.
3.AT BRANCH COLLAR CUT FROM POINT C TO D.

INCORRECT CUT FROM POINT C TO X (TOO CLOSE) WILL RESULT IN DISCONTINUOUS CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

CORRECT CUT FROM POINT C TO D (LEAVING BRANCH COLLAR BUT NOT THE STUB FROM POINT B TO A) WILL RESULT IN CONTINUOUS DOUGHNUT SHAPED CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

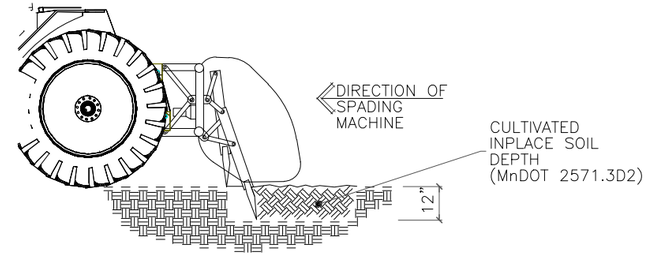


BRANCHES PRUNED TO LIVE BUD

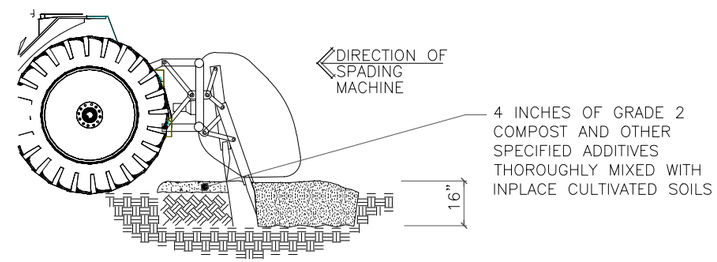
PRUNING NOTES:
1.PRUNE USING CLEAN AND SHARP SCISSOR–TYPE PRUNER OR PRUNING SAW.
2.THE BEST TIME TO PRUNE IS LATE DORMANT SEASON OR EARLY SPRING.
3.AVOID PRUNING OAKS IN APRIL, MAY, JUNE OR JULY.
4.IF PRUNING IS NECESSARY OR IF WOUNDS OCCUR TO OAK TREES IN APRIL, MAY, JUNE OR JULY, IMMEDIATELY PAINT CUT SURFACE OR WOUND WITH LATEX PAINT OR SHELLAC.

PRUNING

(MnDOT 2571.3K2a9 and 2571.3E1)



PRIMARY TILLAGE – PASS 1



INCORPORATION TILLAGE – PASS 2

PLANTING SOIL

(MnDOT 2571.3D2)

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60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 9
LANDSCAPE DETAILS 1

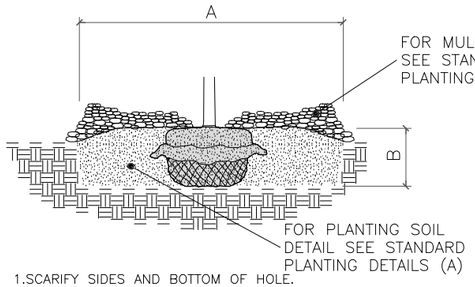
DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W0-LAN-DTLS - 001

SHEET 45 OF 49

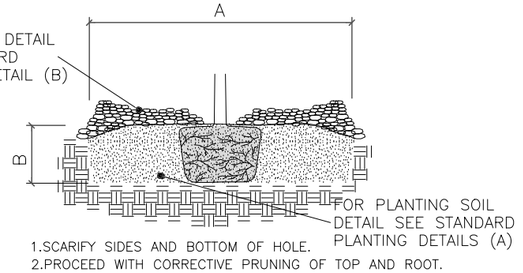
Sep. 21 2015 08:25 am v:\3400_ADC\CAD\OVERALL\PLAN SHEETS\LANDSCAPE\LANDSCAPE DETAILS\W0-LAN-DTLS.dwg By: akrzmarzick

PLANTING HOLE DIMENSIONS			
HOLE DEPTH FOR B&B AND CONTAINER PLANTS SHALL NOT EXCEED MEASUREMENT FROM ROOT FLAIR TO BOTTOM OF SOIL BALL.			
PLANT TYPE	PLANT SIZE UP TO AND INCLUDING	(A) MINIMUM HOLE WIDTH	(B) APPROXIMATE HOLE DEPTH
DECIDUOUS & ORNAMENTAL TREES	3' B.R.	46"	13"
	4' B.R	46"	14"
	5' B.R.	48"	14"
	6' B.R.	54"	15"
	7' B.R	60"	16"
	8' B.R.	66"	19"
	0.75" B.R.	48'	12"
	1" B.R.	54"	14"
	1.25" B.R.	60"	14"
	1.5 B.R.	66"	15"
	1.75" B.R	72"	16"
	2" B.R.	84"	19"
	4' B.B.	42"	11"
	5' B.B.	48"	12"
	6' B.B.	52"	14"
	8' B.B.	66"	16"
	10' B.B.	66"	16"
	12' B.B.	48"	16"
	1" B.B.	54"	14"
	1.25" B.B.	56"	15"
	1.5" B.B.	61"	15"
	1.75" B.B.	66"	16"
	2" B.B.	72"	16"
	2.5" B.B.	84"	19"
	3" B.B.	96"	20"
	3.5" B.B.	114"	23"
	4" B.B.	126"	25"
DECIDUOUS SHRUBS, ROSES AND PERENNIALS PERENNIAL HOLE DEPTH AND WIDTH SHALL BE BASED UPON ON-CENTER SPACING IN A CONTINUOUS TRENCH.	12" B.R.	24"	7"
	15" B.R.	28"	8"
	18" B.R.	30"	8"
	2' B.R.	33"	9"
	3' B.R.	42"	11"
	4' B.B.	48"	12"
	5' B.R.	54"	14"
	6' B.R.	60"	14"
	18" B.B.	27"	7"
	2' B.B.	30"	8"
	3' B.B.	36"	9"
	4' B.B.	42"	11"
	5' B.B.	48"	12"
	6' B.B.	54"	14"



1.SCARIFY SIDES AND BOTTOM OF HOLE.
2.PROCEED WITH CORRECTIVE PRUNING.
3.SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED), INTACT.
4.SLIT REMAINING TREATED BURLAP AT 6" INTERVALS.
5.BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL, THEN WATER PLANT.
6.REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.
7.PLUMB AND BACKFILL WITH PLANTING SOIL.
8.WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
9.BACK FILL VOIDS AND WATER A SECOND TIME.
10.PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

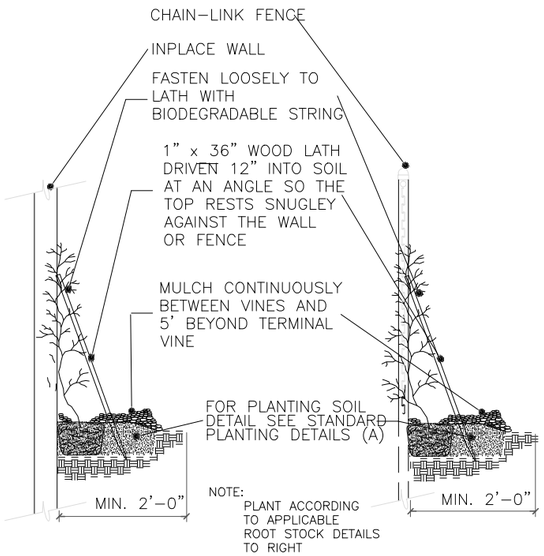
BALLED & BURLAPPED STOCK



1.SCARIFY SIDES AND BOTTOM OF HOLE.
2.PROCEED WITH CORRECTIVE PRUNING OF TOP AND ROOT.
3.REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS. REMOVE OR CORRECT STEM GIRDLING ROOTS.
4.SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE TOP OF THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE.
5.PLUMB AND BACKFILL WITH PLANTING SOIL.
6.WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANT AND FILL VOIDS.
7.BACK FILL VOIDS AND WATER A SECOND TIME.
8.PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

CONTAINER STOCK

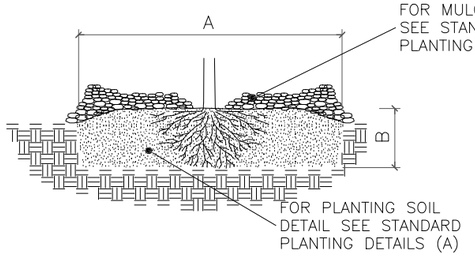
PLANTING HOLE DIMENSIONS			
HOLE DEPTH FOR B&B AND CONTAINER PLANTS SHALL NOT EXCEED MEASUREMENT FROM ROOT FLAIR TO BOTTOM OF SOIL BALL.			
PLANT TYPE	PLANT SIZE UP TO AND INCLUDING	(A) MINIMUM HOLE WIDTH	(B) APPROXIMATE HOLE DEPTH
CONIFEROUS TREES AT LEAST 2/3 OF ALL CONIFER BRANCHES WILL CONTAIN TERMINAL BUDS	2' B.B	36"	10"
	3' B.B	42"	11"
	4' B.B	51"	13"
	5' B.B	60"	13"
	6' B.B	66"	15"
	7' B.B	72"	16"
	8' B.B	81"	18"
	9' B.B	90"	20"
	10' B.B	102"	21"
	12' B.B	114"	24"
CONIFEROUS SHRUBS (UPRIGHT)	18" B.B.	24"	7"
	3' B.B.	48"	12"
CONIFEROUS SHRUBS (SPREADING)	18" SPR B.B.	30"	8"
	2' SPR B.B.	36"	9"
CONTAINER GROWN PLANTS	CELLPACKS / PLUGS	6"	2.5"
	2.25" CONT.	7"	3"
	3.5" CONT.	10"	3"
	4" CONT.	11"	4"
	4.5" CONT.	13"	4"
	6"/1 QT CONT.	15"	5.5"
	1# CONT.	18"	6"
	2# CONT.	23"	7.5"
	3# CONT.	29"	8.5"
	5# CONT.	30"	11"
	7# CONT.	37"	11"
	15# CONT.	44"	14"
	10# CONT.	45"	15"
	20# CONT.	60"	16"
	25# CONT.	72"	17"
SEEDLINGS	6" SEEDLING	15"	14"
	9" SEEDLING	18"	14"
	12" SEEDLING	23"	16"
	18" SEEDLING	30"	16"
	2' SEEDLING	36"	18"
VINES	1 YR. MED B.R.	15"	11"
	1 YR. NO. 1 B.R.	17"	14"
	2 YR. MED. B.R.	33"	12"
	2 YR. NO. 1 B.R.	42"	15"



WALL INSTALLATION

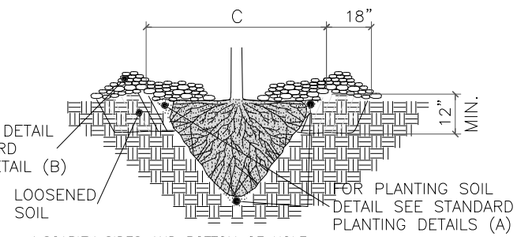
FENCE INSTALLATION

INSTALLATION OF VINES



1.SOAK ROOTS IN WATER FOR AT LEAST ONE HOUR BUT NOT MORE THAN 24 HOURS PRIOR TO PLANTING.
2.SCARIFY SIDES AND BOTTOM OF HOLE.
3.PROCEED WITH CORRECTIVE PRUNING OF THE TOP AND ROOTS.
4.TRANSFER PLANT DIRECTLY FROM WATER TO HOLE. SET PLANT SO THE ROOT FLARE IS AT THE FINISHED SOIL ELEVATION. SPREAD ROOTS OUT EVENLY. PLUMB AND IMMEDIATELY BACKFILL WITH PLANTING SOIL.
5.WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
6.BACK FILL VOIDS AND WATER A SECOND TIME.
7.PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

BARE ROOT STOCK



1.SCARIFY SIDES AND BOTTOM OF HOLE.
2.PROCEED WITH CORRECTIVE PRUNING.
3.SET PLANT ON NATIVE SOIL AT SAME DEPTH AS IT WAS PREVIOUSLY GROWN.
4.PLUMB AND BACKFILL WITH PLANTING SOIL.
5.AFTER PLANTING, LOOSEN THE SOIL IMMEDIATELY ADJACENT TO THE ROOT BALL TO A MINIMUM DISTANCE OF 18" AND A MINIMUM DEPTH OF 12".
6.WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANT AND FILL VOIDS.
7.BACK FILL VOIDS AND WATER A SECOND TIME.
8.PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

MINIMUM TREE SPADE SIZE REQUIREMENTS			
(C) SPADE DIAMETER SIZE	OAK TREE, CALIPER	DECIDUOUS/ ORNAMENTAL TREE,CALIPER	CONIFEROUS TREE, HEIGHT
42"	1" to 1.5"	2" to 3"	5' to 7'
60"	1.5" to 2.5"	3" to 4"	7' to 9'
78"	2.5" to 3.5"	4" to 6"	9' to 14'
85"	3.5" to 5"	6" to 8"	14' to 18'

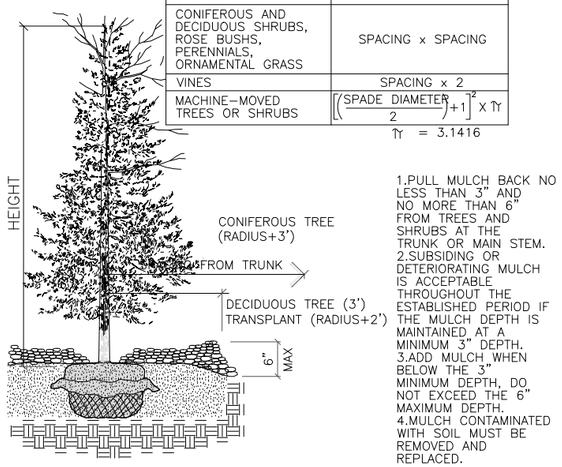
MACHINE MOVED STOCK

INSTALLATION OF PLANTS

(MnDOT 2571.3F)

MULCH AREA CALCULATOR	
TYPE OF PLANT	SQ. FT. PER PLANT
CONIFEROUS TREES	$\left[\left(\frac{3 / 5 \times \text{HEIGHT}}{2}\right)+3\right]^2 \times \pi$
DECIDUOUS AND ORNAMENTAL TREES	$3^2 \times \pi$
CONIFEROUS AND DECIDUOUS SHRUBS, ROSE BUSHS, PERENNIALS, ORNAMENTAL GRASS	SPACING x SPACING
VINES	SPACING x 2
MACHINE-MOVED TREES OR SHRUBS	$\left[\left(\frac{\text{SPADE DIAMETER}}{2}\right)+1\right]^2 \times \pi$

$\pi = 3.1416$



1.PULL MULCH BACK NO LESS THAN 3" AND NO MORE THAN 6" FROM TREES AND SHRUBS AT THE TRUNK OR MAIN STEM.
2.SUBSIDING OR DETERIORATING MULCH IS ACCEPTABLE THROUGHOUT THE ESTABLISHED PERIOD IF THE MULCH DEPTH IS MAINTAINED AT A MINIMUM 3" DEPTH.
3.ADD MULCH WHEN BELOW THE 3" MINIMUM DEPTH, DO NOT EXCEED THE 6" MAXIMUM DEPTH.
4.MULCH CONTAMINATED WITH SOIL MUST BE REMOVED AND REPLACED.

MULCH PLACEMENT

(MnDOT 2571.3H)

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LANDSCAPE DETAILS 2

SHEET 46 OF 49

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W0-LAN-DTLS - 002

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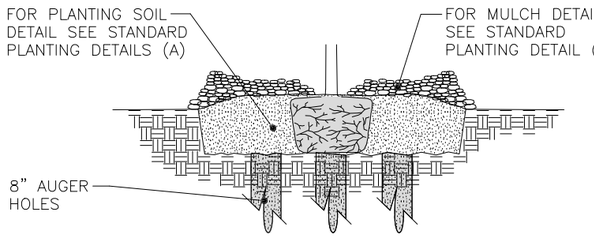
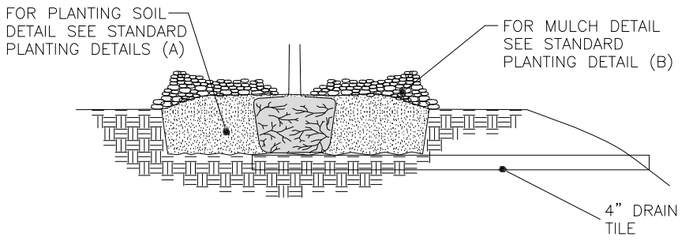


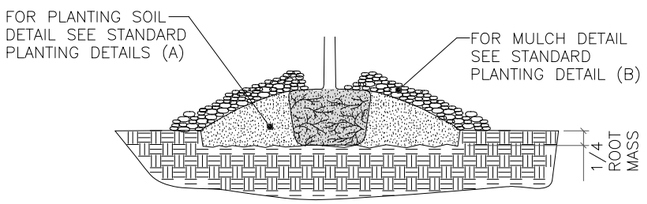
1.EXCAVATE HOLE OR BED TO ALLOW PLACING THE TOP OF ROOT MASS 1"–3" HIGHER THAN FINISHED GRADE.
2.AUGER 8" DIAMETER HOLES ENTIRELY THROUGH IMPERVIOUS OR POORLY DRAINED HARD PAN SOIL LAYER TO ADEQUATELY DRAIN SUBSOIL.
3.TEST FOR POSITIVE DRAINAGE. RE–AUGER AN ADDITIONAL 8" IF NECESSARY FOR POSITIVE DRAINAGE.
4.THOUROUGHLY BACKFILL AUGER HOLES WITH A UNIFORM INCORPORATED MIXTURE OF 50% SAND AND 50% INPLACE SOIL.
5.COMPLETE PLANTING ACCORDING TO ROOT TYPE. SEE STANDARD PLANTING DETAILS (B).

INSTALL GRANULAR FILTER



1.EXCAVATE HOLE OR BED TO ALLOW PLACING THE TOP OF THE ROOT MASS 1"–3" HIGHER THAN FINISHED GRADE.
2.INSTALL 4" MINIMUM DIAMETER DRAIN TILE DAYLIGHTING AT A LOWER GRADE.
3.COMPLETE PLANTING ACCORDING TO ROOT TYPE. SEE STANDARD PLANTING DETAILS (B).

INSTALL TILE DRAINAGE



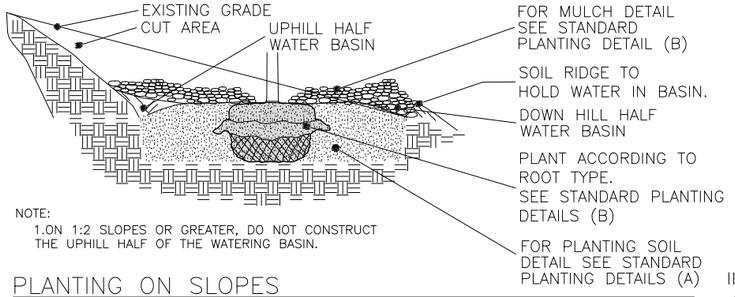
1.EXCAVATE HOLE OR BED 1/4 THE DEPTH OF THE ROOT MASS.
2.SET ROOT MASS IN HOLE.
3.CONSTRUCT BERM WITH PLANTING SOIL. EXTEND THE BERM BASE TO A WIDTH OF 3 TIMES THE BERM HEIGHT.
4.COMPLETE PLANTING ACCORDING ROOT TYPE. SEE STANDARD PLANTING DETAILS (B).

INSTALL MINI–BERM

NOTE:
1.THE NEED FOR USING PLANTING DETAILS FOR POORLY DRAINED SOILS AND WHICH TYPE TO USE ARE DETERMINED BY THE CONTRACTOR, SUBJECT TO ENGINEER APPROVAL.

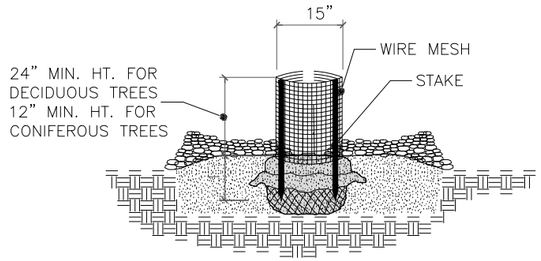
PLANTING DETAIL FOR POORLY DRAINED SOILS

(MnDOT 2571.3D2 (STEP 8)



NOTE:
1.ON 1:2 SLOPES OR GREATER, DO NOT CONSTRUCT THE UPHILL HALF OF THE WATERING BASIN.

PLANTING ON SLOPES

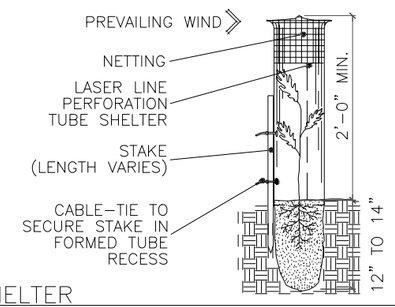


1.FORM A DOUBLE–LAYERED CYLINDER USING 0.25" GRID GALVANIZED WELDED WIRE MESH (HARDWARE CLOTH). OVERLAP THE CUT END 2".
2.DRIVE TWO 1" x 1" OPPOSING HEARTWOOD WHITE OAK STAKES INTO THE GROUND, 7" FROM THE CENTER OF THE TREE STEM.
3.SECURE THE MESH CYLINDER TO THE OUTSIDE OF THE STAKES USING EITHER, SCREWS AND WASHERS OR CABLE–TIES ALONG THE OVERLAP. SPACE APPROXIMATELY 4" ON CENTER ALONG THE OVERLAP.
a.SCREWS SHALL BE ROUND HEAD GALVANIZED 1/8" DIA. x 3/4" LONG WITH WASHERS.
OR
b.CABLE–TIES SHALL BE NYLON, AT LEAST 8" LONG AND BETWEEN 75LB TO 120LB TENSILE STRENGTH.
4.EMBED THE LOWER EDGE OF THE MESH CYLINDER 1" BELOW THE SOIL SURFACE WITHOUT DISTURBING THE TREE ROOTS.
5.CUT EDGES WILL NOT BE PERMITTED AT THE TOP OF THE CYLINDER. STAKE WILL BE FLUSH WITH THE TOP OF THE CYLINDER.
6.MULCH WITHIN THE CYLINDER SHALL NOT EXCEED 3" DEPTH AND SHALL BE PULLED BACK FROM THE TRUNK AS SPECIFIED IN MULCH PLACEMENT DETAIL.
7.THE BOTTOM WHORL OF PINE AND LARCH BRANCHES MAY HAVE TO BE REMOVED TO PERMIT INSTALLATION OF 12" MIN. HEIGHT RODENT GUARDS.
8.INSTALL ON ALL DECIDUOUS, PINE AND LARCH TREES, DO NOT PLACE ON SPRUCE TREES.

RODENT PROTECTION

(MnDOT 2571.3I2)

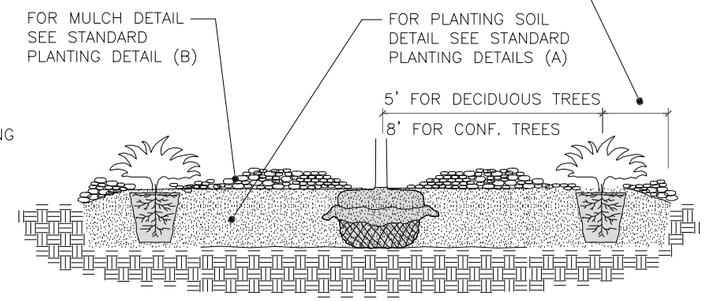
1.USE SEAMLESS, EXTRUDED, TWIN–WALL, RIGID AND SEMI TRANSLUCENT POLYPROPYLENE TUBES WITH A LASER LINE PERFORATION AND AN OUTWARD–FLARED TOP RIM.
2.SECURE SHELTER WITH NYLON CABLE–TIES ATTACHED TO A 1" x 1" WHITE OAK STAKE TO PREVENT DISLODGING OR TWISTING.
3.EMBED THE BOTTOM OF THE TUBE A MINIMUM OF 1" BELOW THE SOIL SURFACE WITHOUT DISTURBING THE TREE ROOTS.
4.INSTALL A PLASTIC PHOTODEGRADABLE NETTING COVER AND SLEEVE OVER THE TOP OF THE TUBE. PULL NETTING DOWN AS SHOWN.



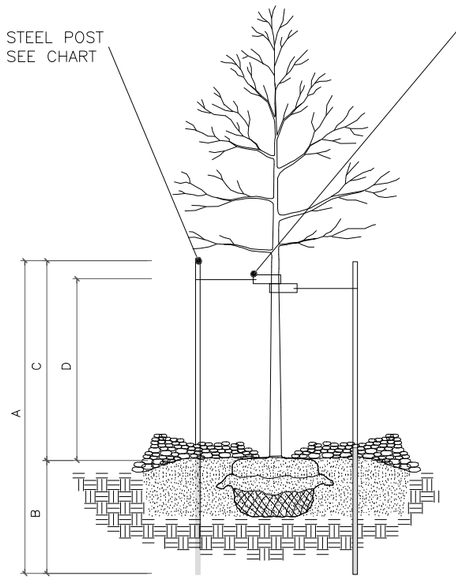
SEEDLING TREE SHELTER

(MnDOT 2571.3I4)

HOLE EXCAVATION WIDTH IN ACCORDANCE WITH MINIMUMS FROM THE PLANTING HOLE DIMENSIONS CHART ON STANDARD PLANTING DETAILS (B)



PLANT SPACING IN MASS BEDS



1.STEEL POSTS TO BE NOTCHED OR DRILLED TO RETAIN GUY WIRES. PLACE OUTSIDE OF ROOT BALL. DRIVE PLUMB REGARDLESS OF GROUND SLOPE.

2.REQUESTS TO SUBSTITUTE RUBBER HOSE AND WIRE GUYING SYSTEMS WILL NOT BE APPROVED.

3. TREE STAKING IS NOT REQUIRED UNLESS SPECIFIED OR NECESSARY TO MAINTAIN TREES IN A PLUMB CONDITION WHERE VANDALISM, SOIL, OR WIND CONDITIONS ARE A PROBLEM, OR AS DIRECTED BY THE ENGINEER.

4.REMOVE WITHIN ONE YEAR.

STEEL POST SIZING

CALIPER	STEEL POST TYPE	A	B	C	D
LESS THEN 4 INCHES	ROLLED STEEL FENCE POST (MnDOT 3403) OR APPROVED EQUAL.	7'–0"	3'–0" MIN.	4'–0"	3'–0"
GREATER THEN 4 INCHES	10', 2.2 LB. FLANGED CHANNEL STEEL SIGN POST (MnDOT 3401) OR APPROVED EQUAL.	10'–0"	4'–0" MIN.	6'–0"	5'–0"

STAKING AND GUYING

(MnDOT 2571.3I1)

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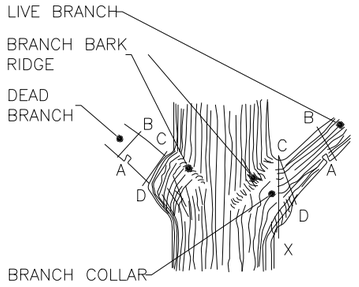
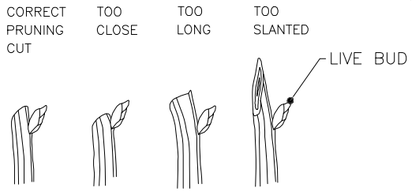


BRANCHES PRUNED AT TRUNK
(SHIGO METHOD)

STEPS TO PRUNING WITH PRUNING SAW:
1. CUT PART WAY THROUGH THE BRANCH AT POINT A.
2. CUT COMPLETELY THROUGH BRANCH FROM POINT B TO A.
3. AT BRANCH COLLAR CUT FROM POINT C TO D.

INCORRECT CUT FROM POINT C TO X (TOO CLOSE) WILL RESULT IN DISCONTINUOUS CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

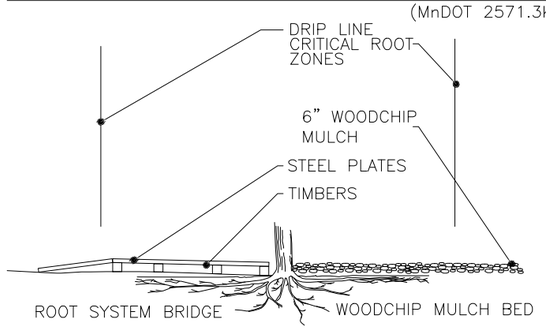
CORRECT CUT FROM POINT C TO D (LEAVING BRANCH COLLAR BUT NOT THE STUB FROM POINT B TO A) WILL RESULT IN CONTINUOUS DOUGHNUT SHAPED CALLUS FORMATION AFTER ONE SEASON OF GROWTH.



BRANCHES PRUNED TO LIVE BUD

PRUNING NOTES:
1. PRUNE USING CLEAN AND SHARP SCISSOR-TYPE PRUNER OR PRUNING SAW.
2. THE BEST TIME TO PRUNE IS LATE DORMANT SEASON OR EARLY SPRING.
3. AVOID PRUNING OAKS IN APRIL, MAY, JUNE OR JULY.
4. IF PRUNING IS NECESSARY OR IF WOUNDS OCCUR TO OAK TREES IN APRIL, MAY, JUNE OR JULY, IMMEDIATELY PAINT CUT SURFACE OR WOUND WITH LATEX PAINT OR SHELLAC.

PRUNING
(MnDOT 2571.3K2a9 and 2571.3E1)



IF CONSTRUCTION VEHICLES MUST PASS OVER ROOT ZONES, THE CONTRACTOR MUST EITHER:

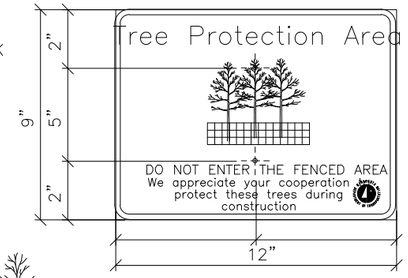
1. CONSTRUCT ROOT SYSTEM BRIDGES WITH STEEL PLATE SUPPORTED ON WOOD TIMBERS PLACED RADIALLY TO THE TREE TRUNK.

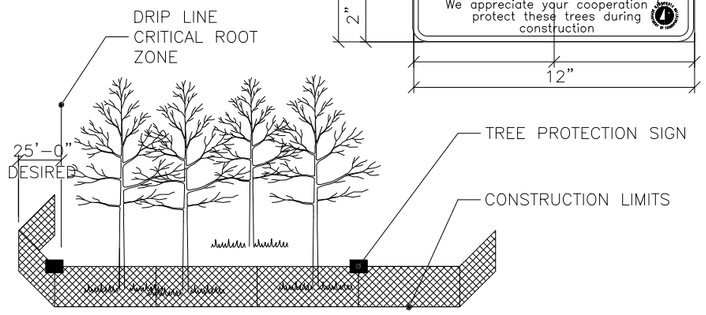
OR

2. PLACE A 6 INCH LAYER OF WOODCHIP MULCH OVER A TYPE III GEOTEXTILE (MnDOT 3733)..

OTHER VEGETATION PROTECTION MEASURES

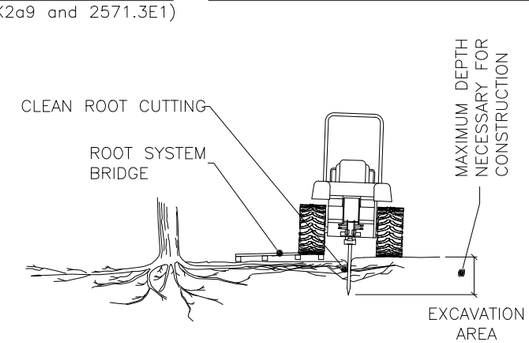
1. FABRICATE 12" X 9" X 3/8" SIGN WITH 0.75" RADIUS CORNERS.
2. SIGN SHALL BE WHITE WITH BLACK LETTERING.
3. ATTACH SIGN TO POST USING 1" LENGTH WOOD SCREWS.





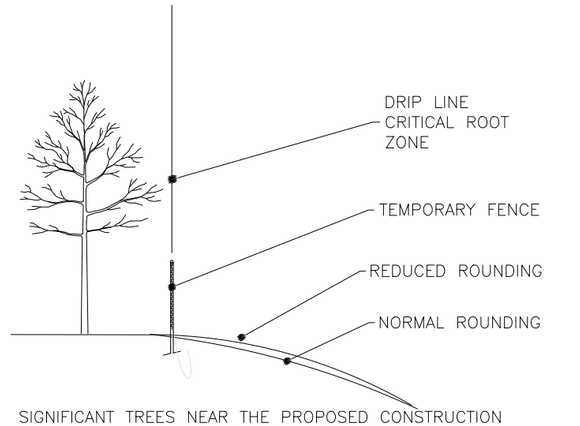
1. FURNISH AND INSTALL TEMPORARY FENCE AT THE TREE'S DRIPLINE OR CONSTRUCTION LIMITS AS SPECIFIED, PRIOR TO ANY CONSTRUCTION.
2. WHEN POSSIBLE PLACE FENCE 25 FEET BEYOND THE DRIP LINE.
3. PLACE TREE PROTECTION SIGNS ALONG FENCE AT 50' INTERVALS.

TEMPORARY FENCE
(MnDOT 2572.3A1)



1. WHEN DESIGNATED IN THE PLAN OR DIRECTED BY THE ENGINEER, PRIOR TO EXCAVATION, ALL TREE ROOTS WILL BE CLEANLY CUT BY A VIBRATORY PLOW OR OTHER APPROVED ROOT CUTTER.
2. THE TREE ROOTS WILL BE CUT CLEANLY TO THE MAXIMUM DEPTH NECESSARY FOR CONSTRUCTION.
3. IMMEDIALTLY, AND CLEANLY CUT DAMAGED AND EXPOSED ROOTS.
4. ROOT ENDS EXPOSED BY EXCAVATION ACTIVITIES SHALL BE IMMEDIATELY COVERED WITH A 6" LAYER OF ADJACENT SOIL.

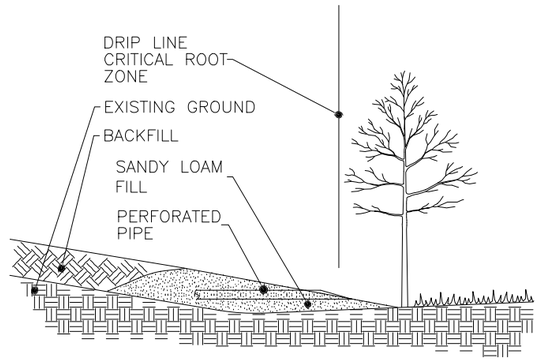
CLEAN ROOT CUTTING



SIGNIFICANT TREES NEAR THE PROPOSED CONSTRUCTION LIMITS WILL BE IDENTIFIED IN THE PLAN OR BY THE ENGINEER AND WILL BE PRESERVED BY THE CONTRACTOR.

1. PLACE THE TEMPORARY FENCE.
2. REDUCE SLOPE ROUNDING WHERE ROOT ZONES ARE DISTURBED BY NORMAL SLOPE ROUNDING.
3. VARY BACKSLOPE STEEPNESS TO AVOID TREE LOSS OR UNNECESSARY ROOT DAMAGE.

SLOPE ROUNDING



1. ANY FILL REQUIRED WITHIN THE DRIP LINE OF TREES, IS UNCOMPACTED SANDY LOAM TOPSOIL (WITH A COARSE SAND COMPONENT).
2. EXCESSIVE FILL MAY REQUIRE INSTALLING PERFORATED PIPE WITH AT LEAST ONE DAYLIGHTED END OPENING AS AN AERATION SYSTEM.

SANDY LOAM TOPSOIL

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SHEET NAME: W0-LAN-DTLS - 004

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DECIDUOUS TREES				
BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
Acer miyabei 'Morton'	STATE STREET MIYABE MAPLE	2.5" CAL.	B&B	
Acer platanoides 'Crimson Sentry'	CRIMSON SENTRY MAPLE	2.5" CAL.	B&B	
Acer rubrum	RED MAPLE	2.5" CAL.	B&B	
Acer rubrum 'Bowhall'	BOWHALL MAPLE	2.5" CAL.	B&B	
Acer saccharum	SUGAR MAPLE	2.5" CAL.	B&B	
Acer x freemani 'Scarsen"	SCARLET SENTINEL MAPLE	2.5" CAL.	B&B	
Acer x freemani 'Sienna Glen'	SIENNA GLEN MAPLE	2.5" CAL.	B&B	
Celtis occidentalis	COMMON HACKBERRY	2.5" CAL.	B&B	
Gkinkgo biloba 'Princeton Sentry'	PRINCETON SENTRY GINKGO	2.5" CAL.	B&B	
Gymnocladus dioicus	ESPRESSO KENTUCKY COFFEETREE	2.5" CAL.	B&B	
Gleditsia tricanthos 'Harve'	NORTHERN ACCLAIM HONEY LOCUST	2.5" CAL.	B&B	
Gleditsia tricanthos 'Imperial'	IMPERIAL HONEY LOCUST	2.5" CAL.	B&B	
Gleditsia tricanthos inermis 'Skycole'	SKYLINE HONEYLOCUST	2.5" CAL.	B&B	
Populus tremuloides	QUAKING ASPEN	#25	CONT.	
Quercus bicolor	SWAMP WHITE OAK	2.5" CAL.	B&B	
Quercus macrocarpa	BUR OAK	2.5" CAL.	B&B	
Tilia americana 'Redmond'	BASSWOOD	2.5" CAL.	B&B	
Ulmus americana 'Princeton'	PRINCETON ELM	2.5" CAL.	B&B	
Ulmus davidiana japonica 'Discovery'	DISCOVERY ELM	2.5" CAL.	B&B	
Ulmus x 'Cathedral'	CATHEDRAL ELM	2.5" CAL.	B&B	

CONIFEROUS TREES				
BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
Picea glauca 'Densata'	BLACK HILLS SPRUCE	8' HT.	B&B	
Picea pungens	COLORADO BLUE SPRUCE	8' HT.	B&B	
Picea pungens 'fastigiata'	COLUMNAR COLORADO BLUE SPRUCE	8' HT.	B&B	
Pinus nigra	AUSTRIAN PINE	8' HT.	B&B	
Pinus sylvestris	SCOTCH PINE	8' HT.	B&B	
Pinus strobus	EASTERN WHITE PINE	8' HT.	B&B	

ORNAMENTAL TREES				
BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
Amalenchier 'Autumn Brilliance'	AUTUMN BRILLIANCE SERVICEBERRY	6' HT.	B&B	CLUMP MULTISTEM
Malus 'Pink Spires'	PINK SPIRES FLOWERING CRAB	2" CAL.	B&B	SINGLE STRAIGHT LEADER
Sorbus decora	SHOWY MOUNTAIN ASH	2" CAL.	B&B	SINGLE STRAIGHT LEADER
Syringa reticulata 'Ivory Silk'	IVORY SILK JAPANESE TREE LILAC	6' HT.	B&B	CLUMP MULTISTEM
Betula popufilia 'Whitespire'	WHITESPIRE BIRCH	6' HT.	B&B	CLUMP MULTISTEM

CONIFEROUS SHRUBS				
BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
Juniperus chinensis 'Maney'	MANEY JUNIPER	18" SPRD.	CONT.	
Juniperus squamata 'Blue Star'	BLUE STAR JUNIPER	#3	CONT.	
Taxus x media 'Taunton'	TAUNTON YEW	#3	CONT.	

VINES				
BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
Parthenocissus tricuspidata 'Robusta'	BOSTON IVY	#1	CONT.	SPACING PER PLANS
Clematis sp.	CLEMATIS	#1	CONT.	SPACING PER PLANS

DECIDUOUS SHRUBS				
BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
Amalenchier alnifolia 'Regent'	REGENT SERVICEBERRY	#5	CONT.	
Amalenchier canadensis	SHADBLOW SERVICEBERRY	#5	CONT.	
Aronia melanocarpa 'Morton'	IRIQUOIS BEAUTY CHOKEBERRY	#5	CONT.	
Cornus alba 'Ivory Halo'	IVORY HALO DOGWOOD	#5	CONT.	
Cornus racemosa	GRAY DOGWOOD	#5	CONT.	
Diervilla lonicera 'Copper'	COPPER DWARF BUSH HONEYSUCKLE	#5	CONT.	
Ilex verticillata 'Afterglow'	AFTERGLOW WINTERBERRY	#5	CONT.	
Ilex verticillata 'Jim Dandy'	JIM DANDY WINTERBERRY	#5	CONT.	
Physocarpys opufolius 'Dart's Gold'	DART'S GOLD NINEBARK	#5	CONT.	
Potentilla fruticosa 'Gold Drop'	GOLD DROP POTENTILLA	#5	CONT.	
Rhododendron 'Golden Lights'	DECIDUOUS AZALEA	#5	CONT.	
Rhus aromatica 'Grow-Low'	GROW-LOW FRAGRANT SUMAC	#5	CONT.	
Ribes alpinum'Green Mound'	GREEN MOUND ALPINE CURRANT	#5	CONT.	
Rosa rugosa 'Pavement Foxi'	FOXI PAVEMENT ROSE	#5	CONT.	
Rosa rugosa 'Pavement Purple'	PURPLE PAVEMENT ROSE	#5	CONT.	
Salix purpurea 'Nana'	CREEPING ARCTIC WILLOW	#5	CONT.	
Sorbaria sorbifolia 'Sem'	SEM FALSE SPIREA	#5	CONT.	
Spiraea japonica 'Alpina'	DAPHNE SPIREA	#5	CONT.	
Spiraea x bumalda 'Goldflame'	GOLDFLAME SPIREA	#5	CONT.	
Cornus sericea 'Baileyi'	RED-TWIG DOGWOOD	#5	CONT.	
Syringa meyeri 'Palibin'	DWARF KOREAN LILAC	#5	CONT.	
Viburnum dentatum 'Christom'	BLUE MUFFIN VIBURNUM	#5	CONT.	
Viburnum lentago	NANNYBERRY VIBURNUM	#5	CONT.	

PERENNIALS AND ORNAMENTAL GRASSES				
BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
Ajuga reptans 'Burgundy Gold'	BUGLEWEED	#1	CONT.	PLANT 24" O.C.
Aster novae-angliae 'Purple Dome'	PURPLE DOME ASTER	#1	CONT.	PLANT 24" O.C.
Aster 'Woods Glow'	WOODS GLOW ASTER	#1	CONT.	PLANT 24" O.C.
Calamagrostis acutifolia	FEATHER REED GRASS	#1	CONT.	PLANT 24" O.C.
Calamagrostis x 'Karl Foerster'	KARL FOERSTER GRASS	#1	CONT.	PLANT 30" O.C.
Echinacea 'Big Sky Twilight'	BIG SKY PURPLE CONEFLOWER	#1	CONT.	PLANT 24" O.C.
Echinacea purpurea	PURPLE CONEFLOWER	#1	CONT.	PLANT 24" O.C.
Hemerocallis 'Happy Returns'	HAPPY RETURNS DAYLILY	#1	CONT.	PLANT 24" O.C.
Hemerocallis 'Rosy Returns'	ROSY RETURNS DAYLILY	#1	CONT.	PLANT 24" O.C.
Hemerocallis 'Stella d' Oro'	STELLA D'ORO DAYLILY	#1	CONT.	PLANT 24" O.C.
Iris sibirica 'Caesar's Brother'	CAESAR'S BROTHER IRIS	#1	CONT.	PLANT 24" O.C.
Miscanthus sinsensis 'Purpurascens'	FLAME MAIDEN GRASS	#1	CONT.	PLANT 24" O.C.
Miscanthus sinsensis 'Variegatus'	VARIEGATED MAIDEN GRASS	#1	CONT.	PLANT 24" O.C.
Nepeta 'Walker's Low'	WALKER'S LOW CATMINT	#1	CONT.	PLANT 24" O.C.
Pachysandra terminalis	PACHYSANDRA	#1	CONT.	PLANT 24" O.C.
Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCH GRASS	#1	CONT.	PLANT 24" O.C.
Perovskia 'Filigran'	FILIGRAN RUSSIAN SAGE	#1	CONT.	PLANT 24" O.C.
Rudbeckia fulgida 'Goldsturm'	GOLDSTURM BLACK-EYED SUSAN	#1	CONT.	PLANT 24" O.C.
Rudbeckia hirta 'Indian Summer'	INDIAN SUMMER RUDBECKIA	#1	CONT.	PLANT 24" O.C.
Schizachyrium scoparium 'Blue Heaven'	BLUE HEAVEN LITTLE BLUESTEM	#1	CONT.	PLANT 24" O.C.
Sedum x 'Autumn Joy'	AUTUMN JOY SEDUM	#1	CONT.	PLANT 24" O.C.
Sporobolus heterolepis	PRAIRIE DROPSEED GRASS	#1	CONT.	PLANT 24" O.C.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc. METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 9
PRELIMINARY PLANT PALETTE

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: W0-LAN-DTLS - 005

SHEET 49 OF 49