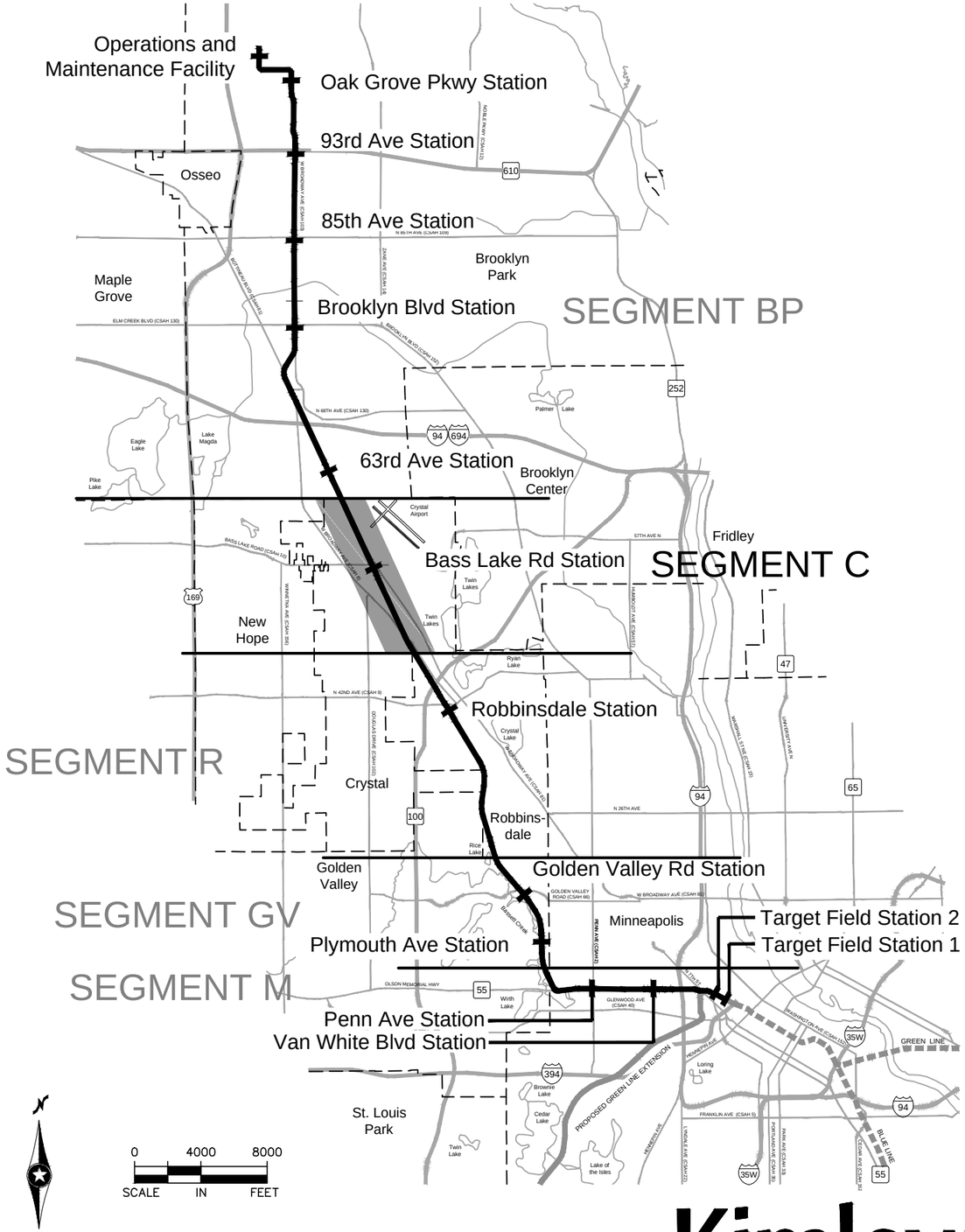

METRO BLUE LINE EXTENSION
Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C

EXISTING CONDITIONS/TRACK/CIVIL
MUNICIPAL CONSENT (12/15/2015)

MN STATE STATUTE 473.3994

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TOPOGRAPHIC SYMBOLS

- CATCH BASIN
- STORM MANHOLE
- FLARED END SECTION
- BOX CULVERT INVERT
- SANITARY MANHOLE
- SANITARY CLEANOUT
- WATER MANHOLE
- WATER GATE VALVE MANHOLE
- WATER VALVE
- WATER METER
- CORP STOP
- HYDRANT
- ELECTRIC METER
- ELECTRIC TRANSFORMER
- ELECTRIC PANEL
- ELECTRIC MANHOLE
- ELECTRIC BOX
- ELECTRIC VAULT
- GAS VALVE
- GAS METER
- TRAFFIC SIGNAL POLE
- LIGHT POLE
- HAND HOLE (STRUCTURE)
- CABLE TELEVISION
- COMMUNICATION STRUCTURE
- TELEPHONE STRUCTURE
- TELEPHONE MANHOLE
- FIBER OPTIC MANHOLE
- UTILITY POLE
- UTILITY POLE W/LIGHT
- GUY WIRE
- SHRUB
- TREE (DECIDUOUS)
- TREE (CONIFEROUS)
- CAMERA
- MONITOR WELL
- BOLLARD
- SIGN
- MAILBOX
- FLAG POLE
- UNIDENTIFIED STRUCTURE
- EXISTING DIRECTIONAL LANE USE
- EXISTING SIGNALIZED INTERSECTION
- SURVEY CONTROL STATION
- POWER TOWER
- GATE ARM
- RAIL SIGNAL FLASHER

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 NAD83 (2007 ADJUSTMENT) SOUTH ZONE.
2. THE VERTICAL DATUM OF THIS MAP IS NAVD 88.
3. THE PLANIMETRIC FEATURES SHOWN ON THIS MAP ARE AS PREPARED BY AERO-METRIC, INC. FROM AERIAL DATA AND IMAGERY COLLECTED IN SPRING 2008 AND OCTOBER 2010, AS SUPPLEMENTED BY FIELD SURVEYS COMPLETED BY SAMBATEK.

EXISTING LINETYPES

- P-OH — OVERHEAD ELECTRIC
- P-UG — UNDERGROUND ELECTRIC
- T-OH — OVERHEAD TELEPHONE
- TEL — UNDERGROUND TELEPHONE
- COM-OH — OVERHEAD COMMUNICATION
- COM-UG — UNDERGROUND COMMUNICATION
- CABLE-OH — OVERHEAD CABLE TELEVISION
- CATV — UNDERGROUND CABLE TELEVISION
- FIB-OPT — UNDERGROUND FIBER OPTIC
- FUEL-UG — UNDERGROUND FUEL
- GAS-UG — UNDERGROUND GAS
- GAS(AB.) — ABANDONED UTILITY
- WATER
- SANITARY SEWER
- SANITARY FORCE MAIN
- STORM SEWER
- LARGE CULVERT
- EDGE OF PAVEMENT
- CURB AND GUTTER
- FENCE
- GUARDRAIL
- WALK
- BUILDING
- RETAINING WALL
- BRIDGE
- RIGHT-OF-WAY
- PROPERTY LINE
- FREIGHT RAIL
- CENTERLINE OF TRAIL
- VEGETATION
- WATER BODY

TRACK/CIVIL LINETYPES

- ROADWAY ℄
- TRACK ℄
- CONCRETE CURB AND GUTTER
- BIKE LANE
- SIDEWALK/TRAIL
- DRIVEWAY
- BRIDGE
- SAWCUT
- BALLAST CURB
- RETAINING WALL
- CROSSWALK
- MEDIAN NOSE

CIVIL SYMBOLS

- ACCESSIBLE PEDESTRIAN CURB RAMP (DESIGN VARIES)
- PROPOSED SIGNALIZED INTERSECTION
- PROPOSED DIRECTIONAL LANE USE
- HANDICAP PARKING STALL
- BIKE LANE
- TACTILE WARNING STRIP

TRACK SYMBOLS

- AUTOMATIC GATE
- RAIL TURNOUT
- RAIL CROSSOVER (DOUBLE)
- RAIL CROSSOVER (SINGLE)
- POINT OF SWITCH (PS)
- 2-20 — RAILROAD CURVE NUMBER

ABBREVIATIONS

AD	ALGEBRAIC DIFFERENCE	OCS	OVERHEAD CONTACT SYSTEM
AVE	AVENUE	OH	OVERHEAD
BGN	BEGIN	OMH	OLSON MEMORIAL HIGHWAY
BIT	BITUMINOUS	PC	POINT OF CURVE
BVCE	BEGININNING VERTICAL CURVE ELEVATION	PGL	PROFILE GRADE LINE
BVCS	BEGINNING VERTICAL CURVE STATION	PITO	POINT OF INTERSECTION TURNOUT
BLVD	BOULEVARD	PKWY	PARKWAY
BNSF	BNSF RAILWAY	POT	POINT ON TANGENT
BRT	BUS RAPID TRANSIT	PROP	PROPOSED
C&G	CURB AND GUTTER	PS	POINT OF SWITCH
℄	CENTERLINE	PT	POINT OF TANGENT
CONC	CONCRETE	PVI	POINT OF VERTICAL INTERSECTION
CP	CANADIAN PACIFIC	R	RADIUS (FEET)
CR	COUNTY ROAD	r	RATE OF CHANGE VERTICAL CURVE
CS	CURVE TO SPIRAL	RD	ROAD
CSAH	COUNTY STATE AID HIGHWAY	RH	RIGHT HAND
CT	COURT	ROW	RIGHT OF WAY
DF	DIRECT FIXATION	S	SOUTH
DR	DRIVE	SB	SOUTHBOUND
Ea	ACTUAL SUPERELEVATION (INCHES)	SC	SPIRAL TO CURVE
EB	EAST BOUND	SIG-COMM	SIGNAL COMMUNICATION
ELEV	ELEVATION	S/P	STOCKPILE
Eu	UNBALANCED SUPERELEVATION (INCHES)	SPI	SPIRAL POINT OF INTERSECTION
EVCE	ENDING VERTICAL CURVE ELEVATION	ST	STREET
EVCS	ENDING VERTICAL CURVE STATION	ST	SPIRAL TO TANGENT
EX	EXISTING	STA	STATION
HCRRA	HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY	SWLRT	SOUTHWEST LRT
HWL	HIGH WATER LINE	TERR	TERRACE
LH	LEFT HAND	TH	TRUNK HIGHWAY
LN	LANE	TOR	TOP OF RAIL
Ls	SPIRAL LENGTH (FEET)	TPSS	TRACTION POWER SUBSTATION
MIN	MINIMUM	TRK	TRACK
MPLS	CITY OF MINNEAPOLIS	TS	TANGENT TO SPIRAL
MPRB	MINNEAPOLIS PARK AND RECREATION BOARD	TWRP	THEODORE WIRTH REGIONAL PARK
N	NORTH	TYP	TYPICAL
NB	NORTHBOUND	UG	UNDERGROUND
NHCC	NORTH HENNEPIN COMMUNITY COLLEGE	Vd	DESIGN VELOCITY (MPH)
NO	NUMBER	WB	WEST BOUND
NWL	NORMAL WATER LINE	100-YR	WATER ELEVATION DURING 100-YEAR EVENT

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C

GENERAL

LEGEND AND ABBREVIATIONS

DISCIPLINE: GENERAL

SHEET NAME: C-GEN-NTS-001

SHEET 2 OF 62

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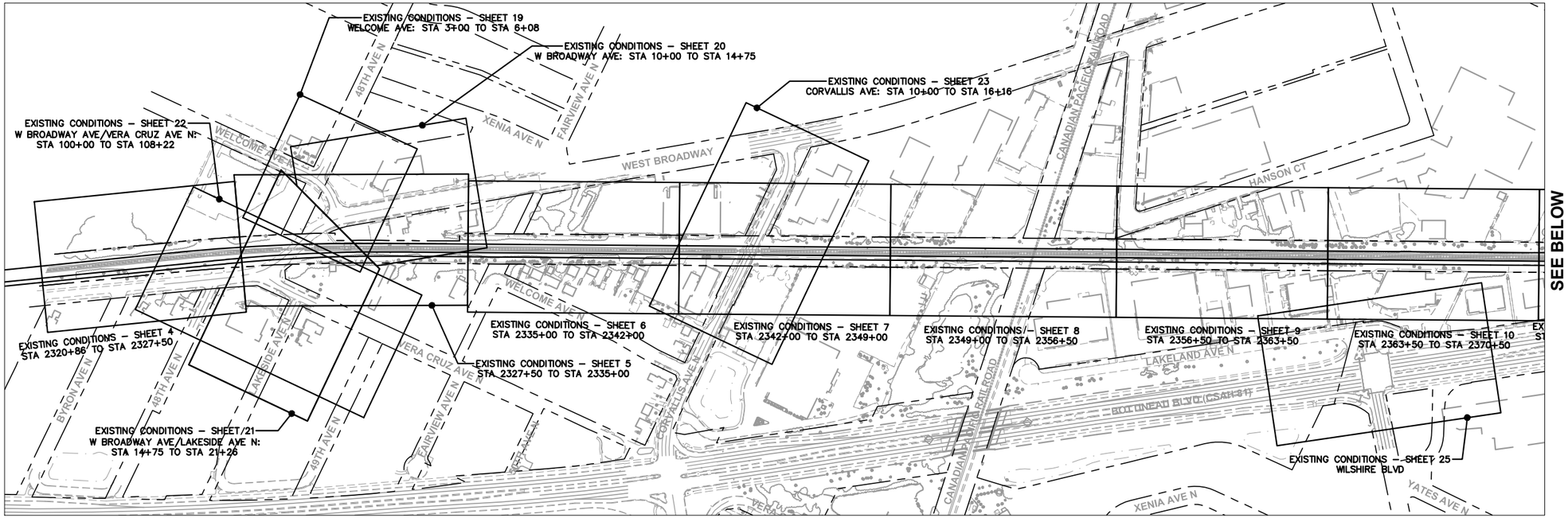

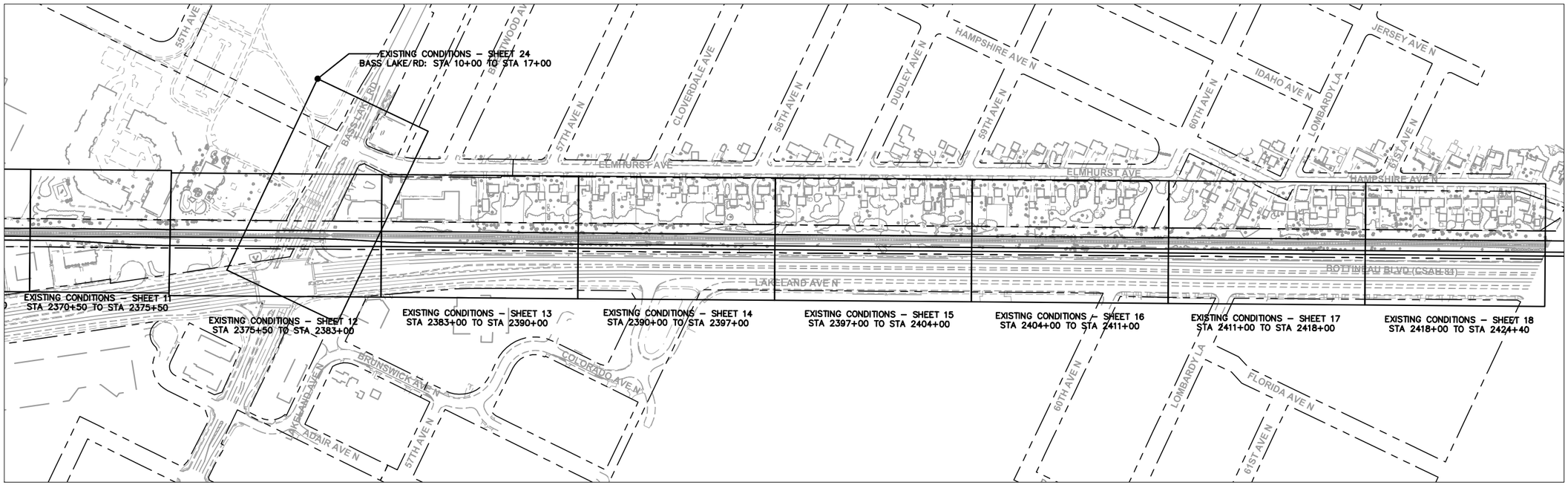

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METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
EXISTING CONDITIONS
SHEET LAYOUT INDEX

DISCIPLINE: SURVEY

SHEET NAME: C-EXCON-IDX-001

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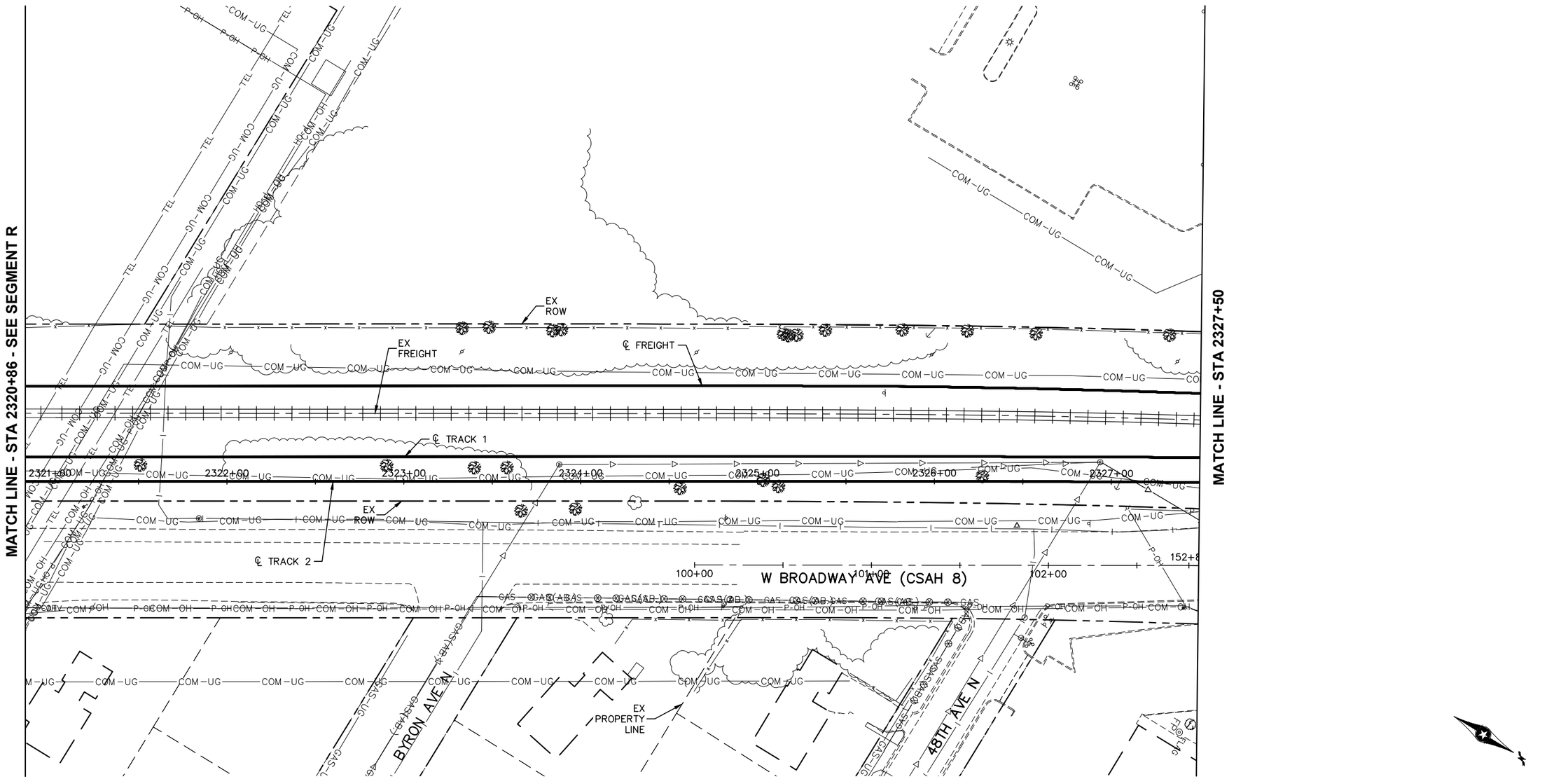

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2320+86 TO STA 2327+50

DISCIPLINE: SURVEY

SHEET NAME: C-EXCON-PLN-001

SHEET 4 OF 62

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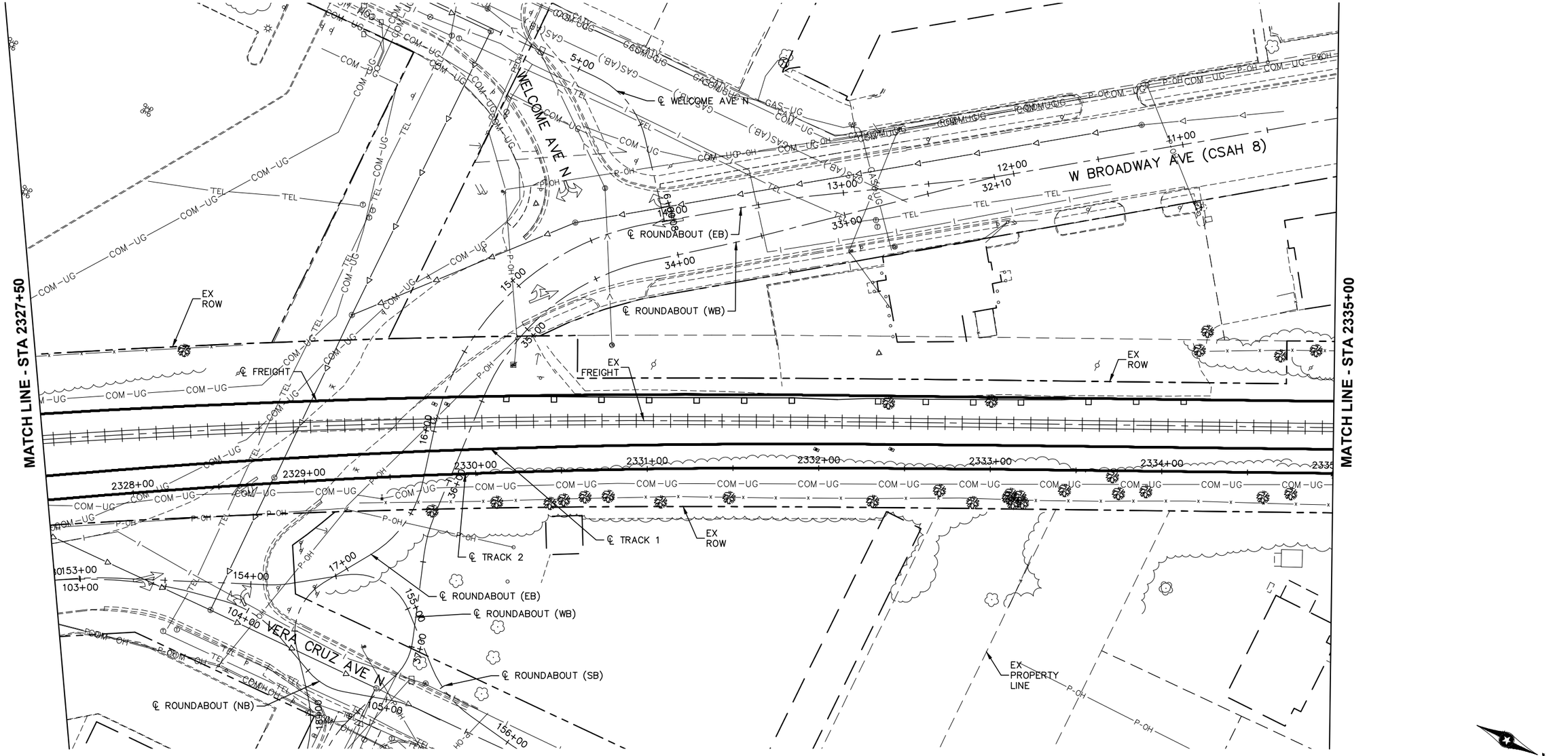

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2327+50 TO STA 2335+00

DISCIPLINE: SURVEY

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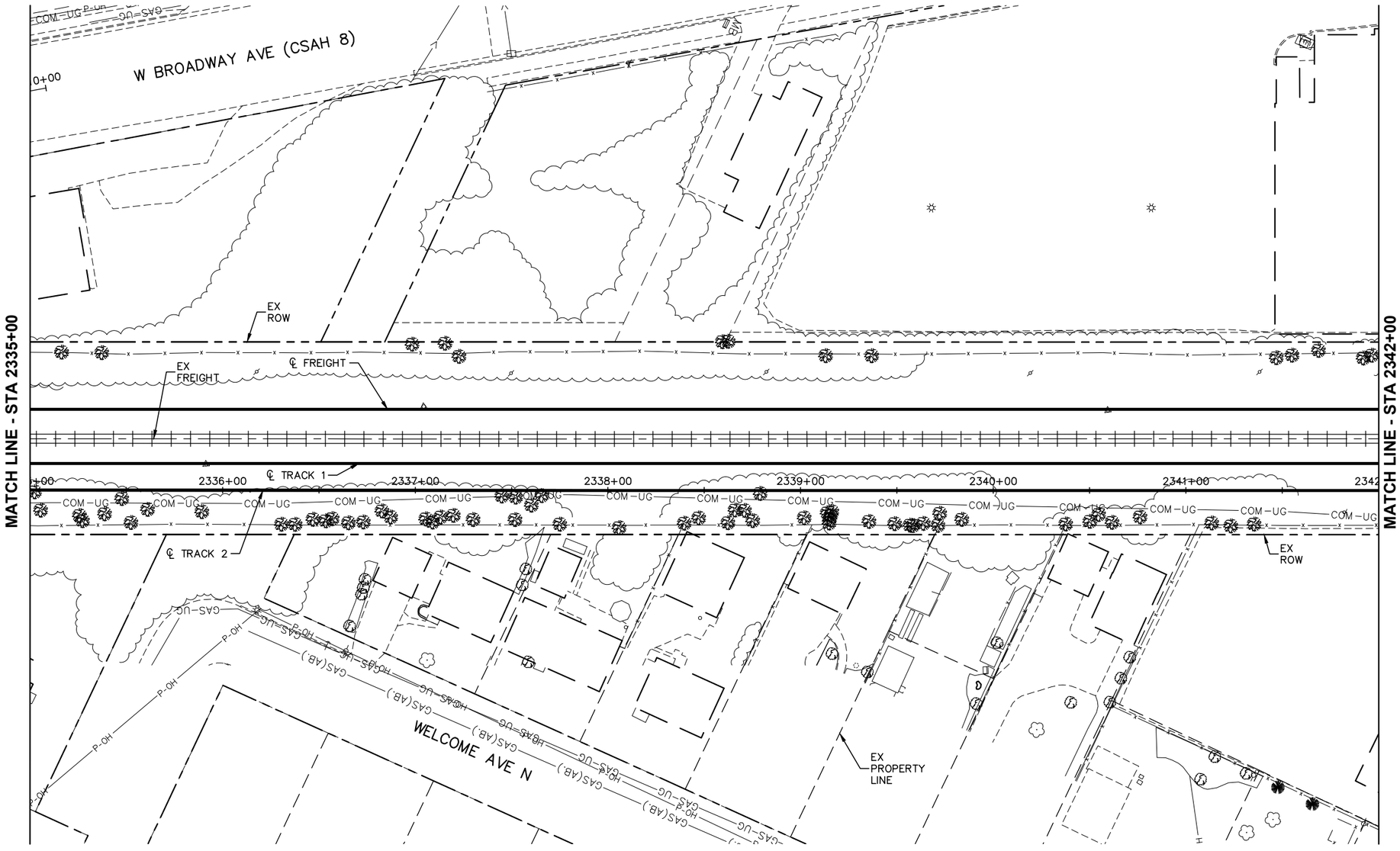

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METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2335+00 TO STA 2342+00

DISCIPLINE: SURVEY

SHEET NAME: C-EXCON-PLN-003

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MATCH LINE - STA 2342+00

MATCH LINE - STA 2349+00

℄ CORVALLIS AVE N (EB)

CORVALLIS AVE N

12+00

33+00

44+00

15+00

16+16.00

℄ FREIGHT

EX FREIGHT

EX ROW

℄ TRACK 1

℄ TRACK 2

EX ROW

EX PROPERTY LINE

2343+00

2344+00

2345+00

2346+00

2347+00

2348+00

GAS-UG

COM-UG

P-OH

STOCKPILE

0 15 30 60

SCALE IN FEET

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bombardier LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2342+00 TO STA 2349+00

DISCIPLINE: SURVEY

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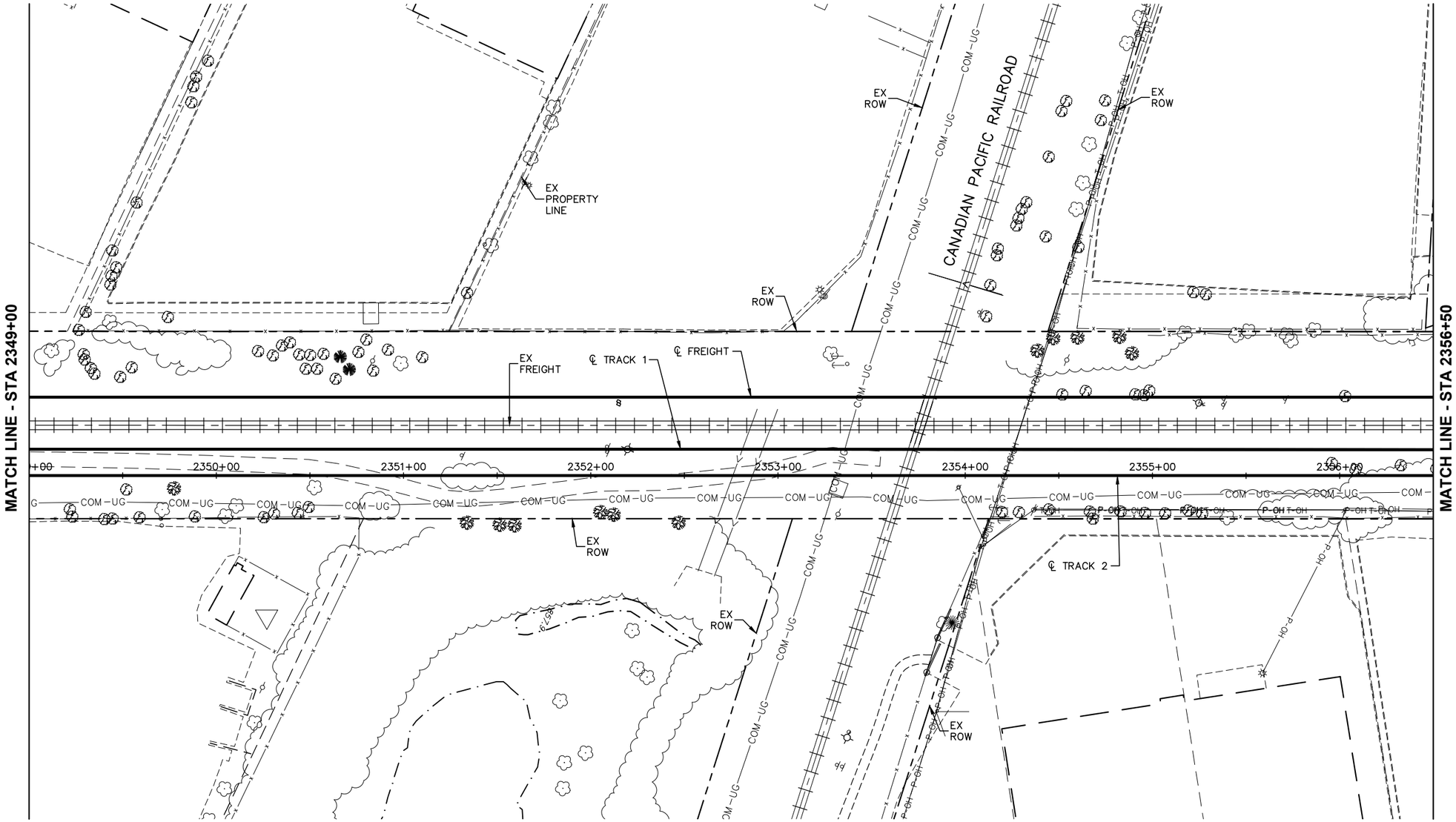

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bombardier LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2349+00 TO STA 2356+50

DISCIPLINE: SURVEY

SHEET NAME: C-EXCON-PLN-005

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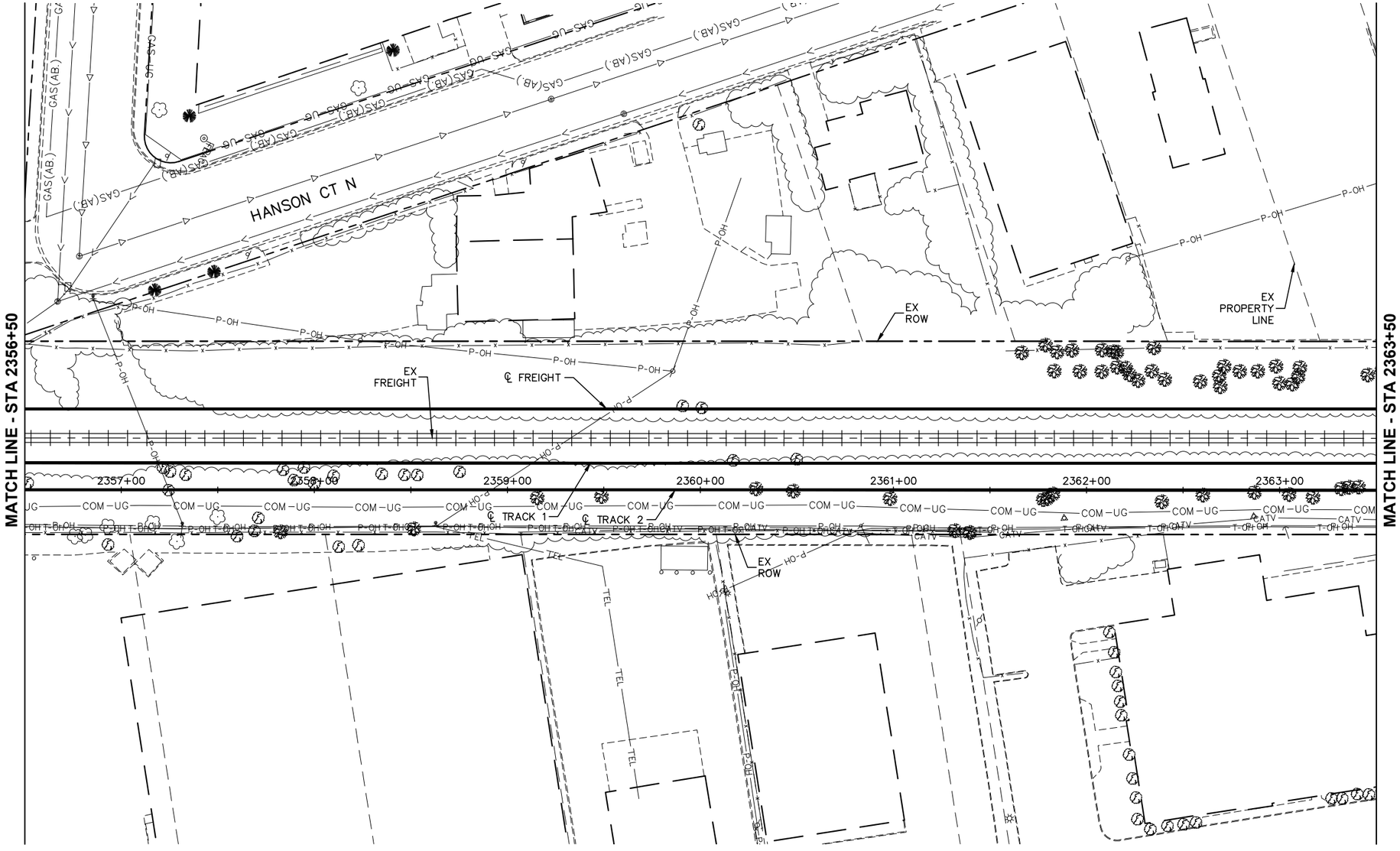

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METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2356+50 TO STA 2363+50

DISCIPLINE: SURVEY

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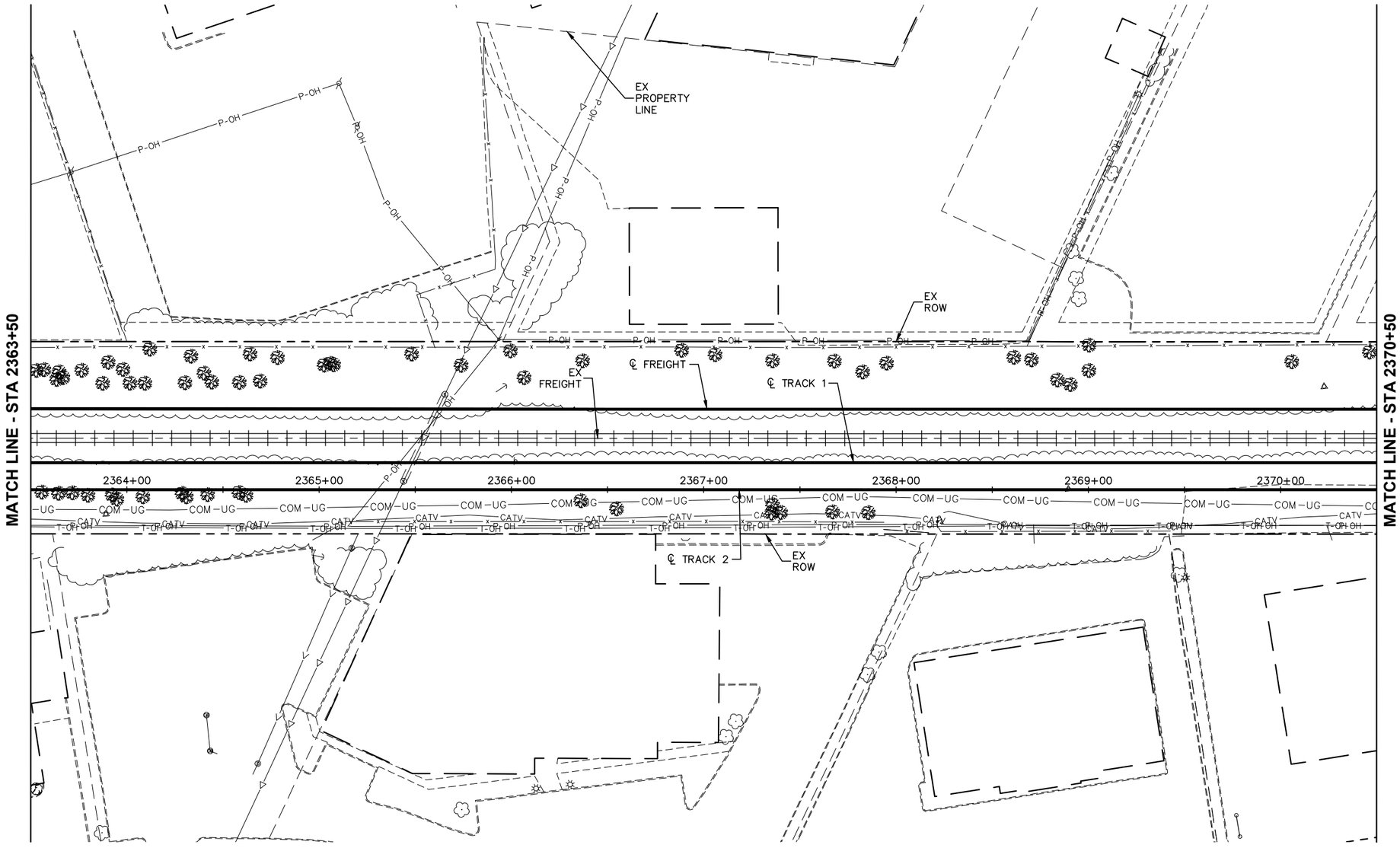

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
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EXISTING CONDITIONS
STA 2363+50 TO STA 2370+50

DISCIPLINE: SURVEY

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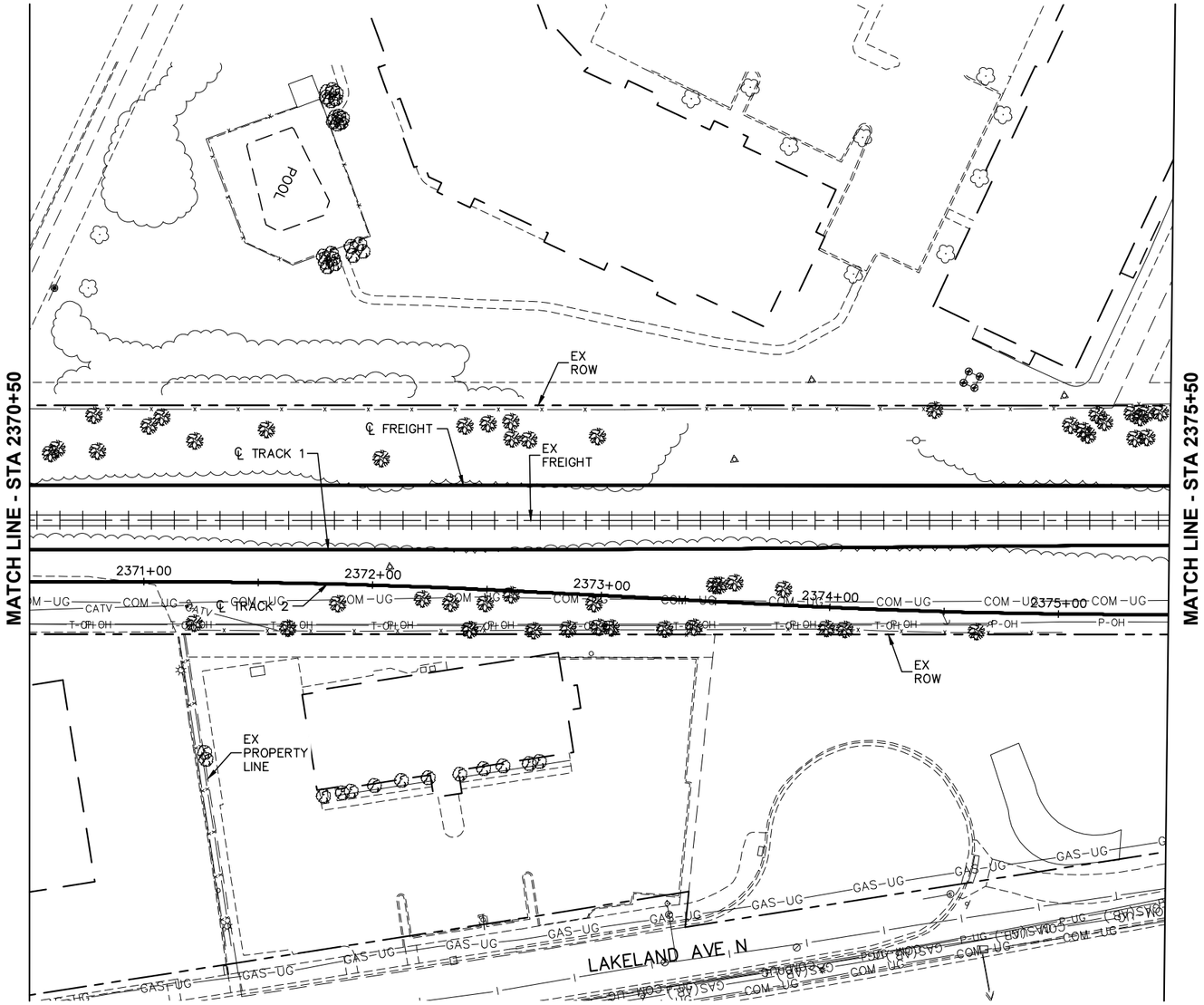

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METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
EXISTING CONDTIONS
STA 2370+50 TO STA 2375+50

DISCIPLINE:	SHEET NAME:
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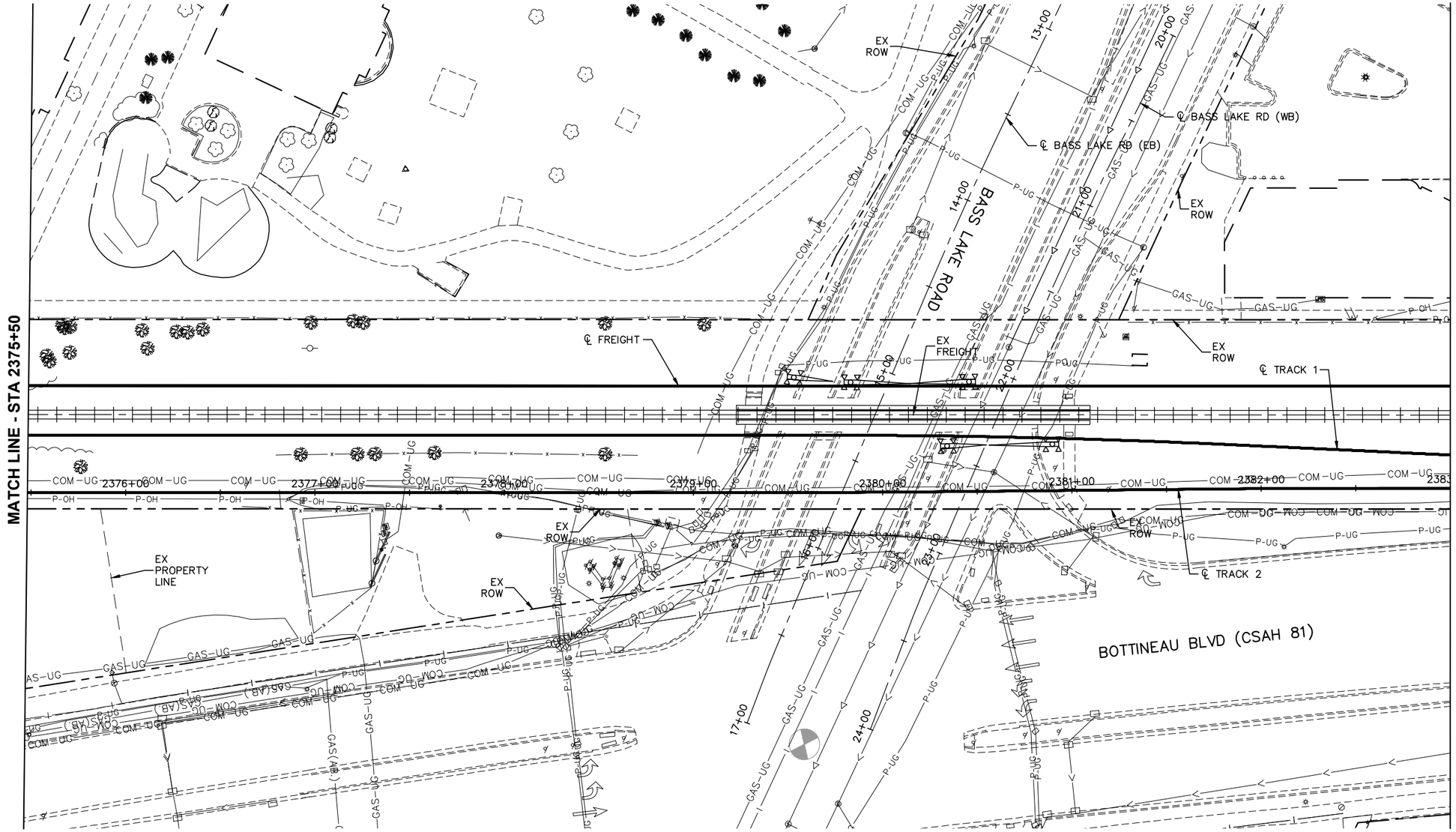

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
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STA 2375+50 TO STA 2383+00

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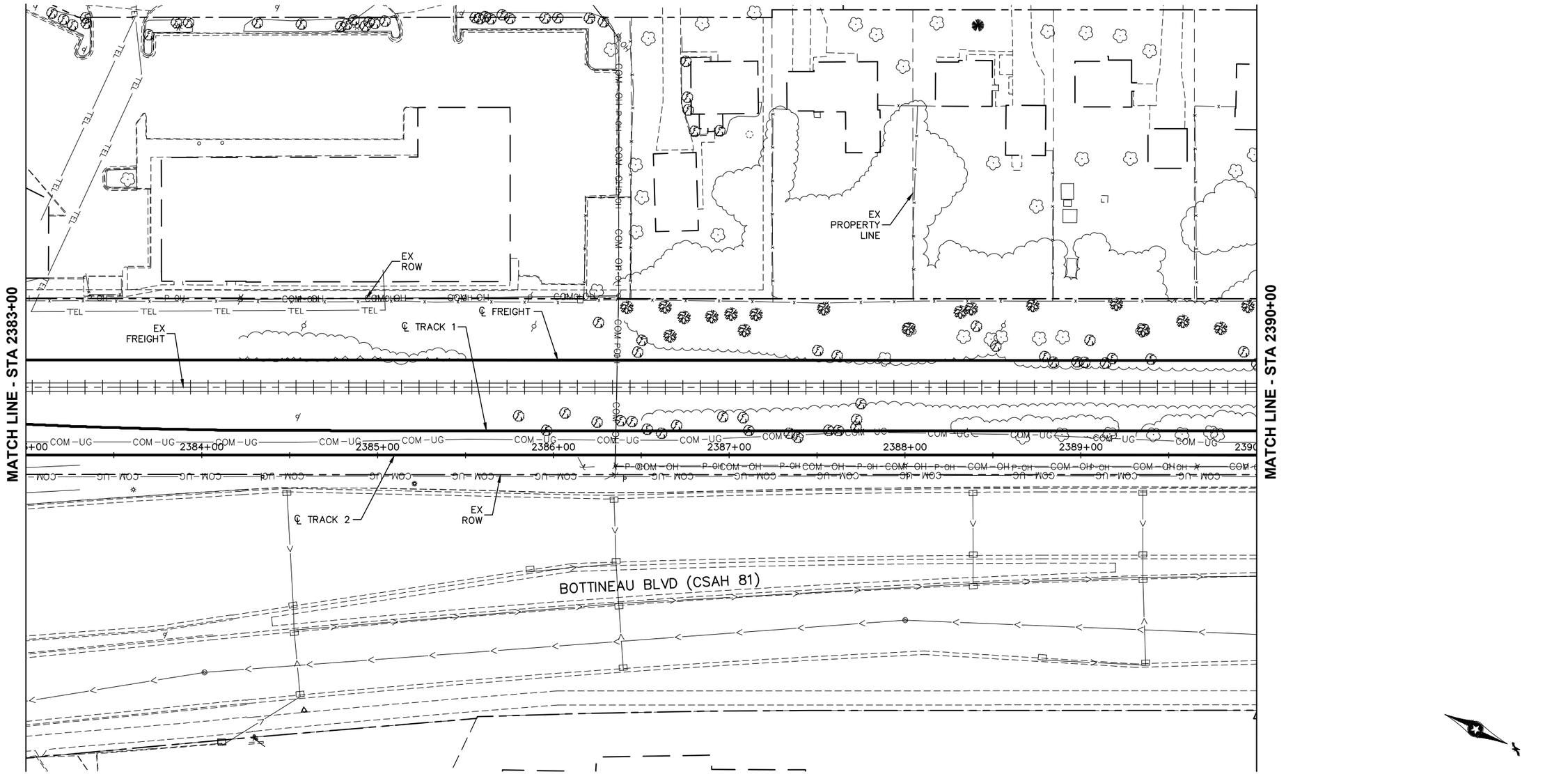

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SCALE IN FEET

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METRO BLUE LINE EXTENSION BOTTINEAU LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2383+00 TO STA 2390+00

DISCIPLINE: SURVEY

SHEET NAME: C-EXCON-PLN-010

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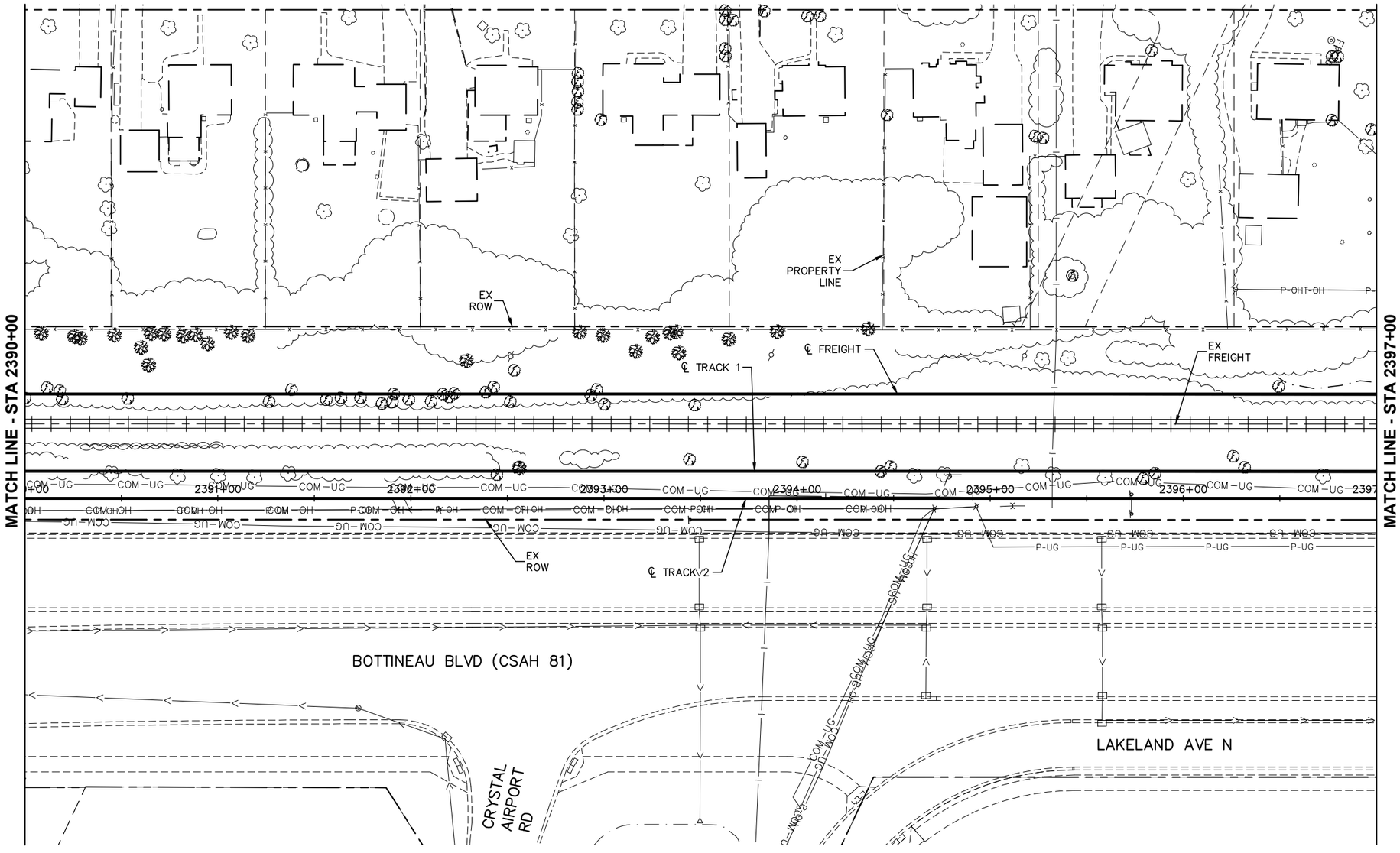

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2390+00 TO STA 2397+00

DISCIPLINE: SURVEY

SHEET NAME: C-EXCON-PLN-011

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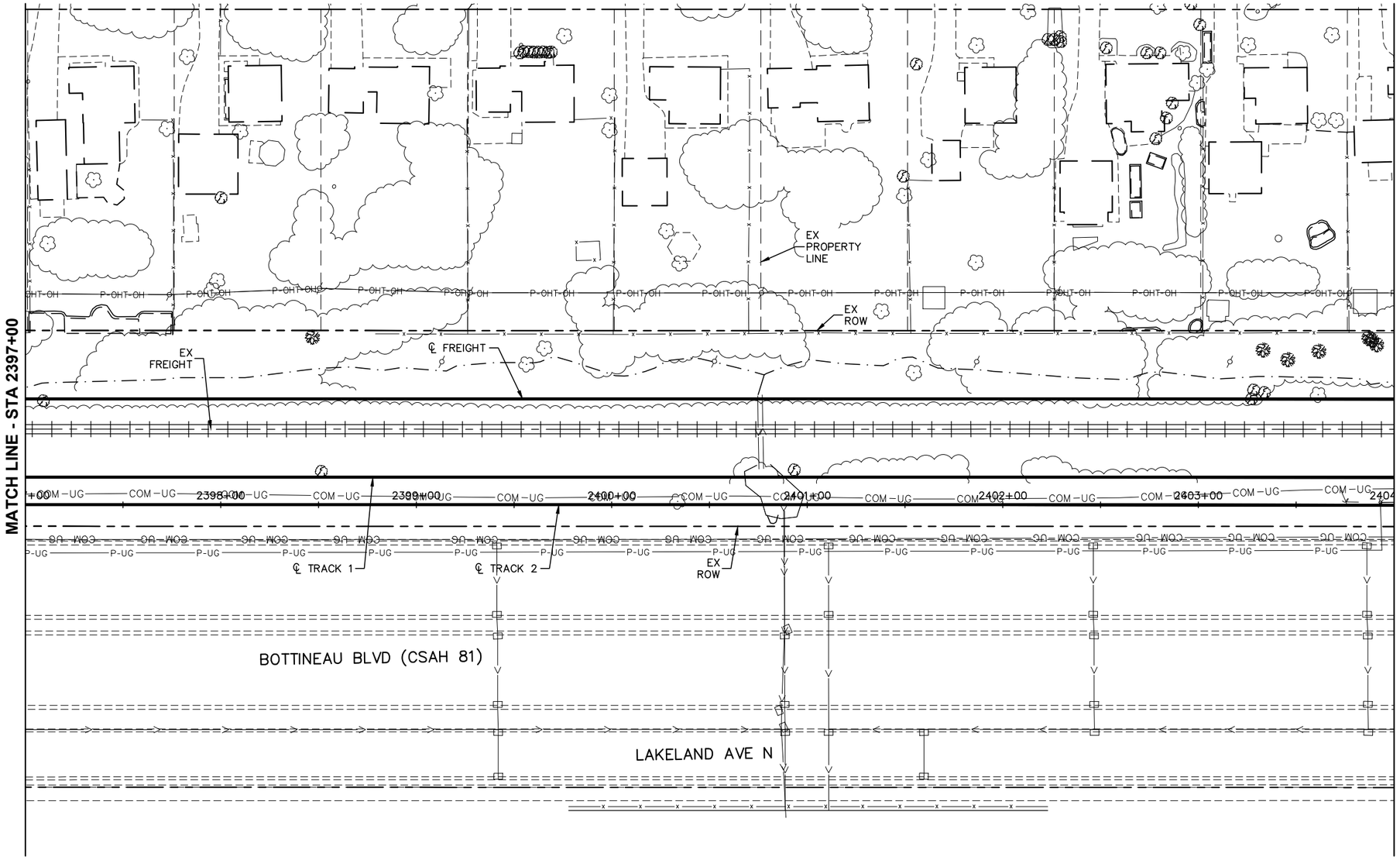

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SCALE IN FEET

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2397+00 TO STA 2404+00

DISCIPLINE: SURVEY

SHEET NAME: C-EXCON-PLN-012

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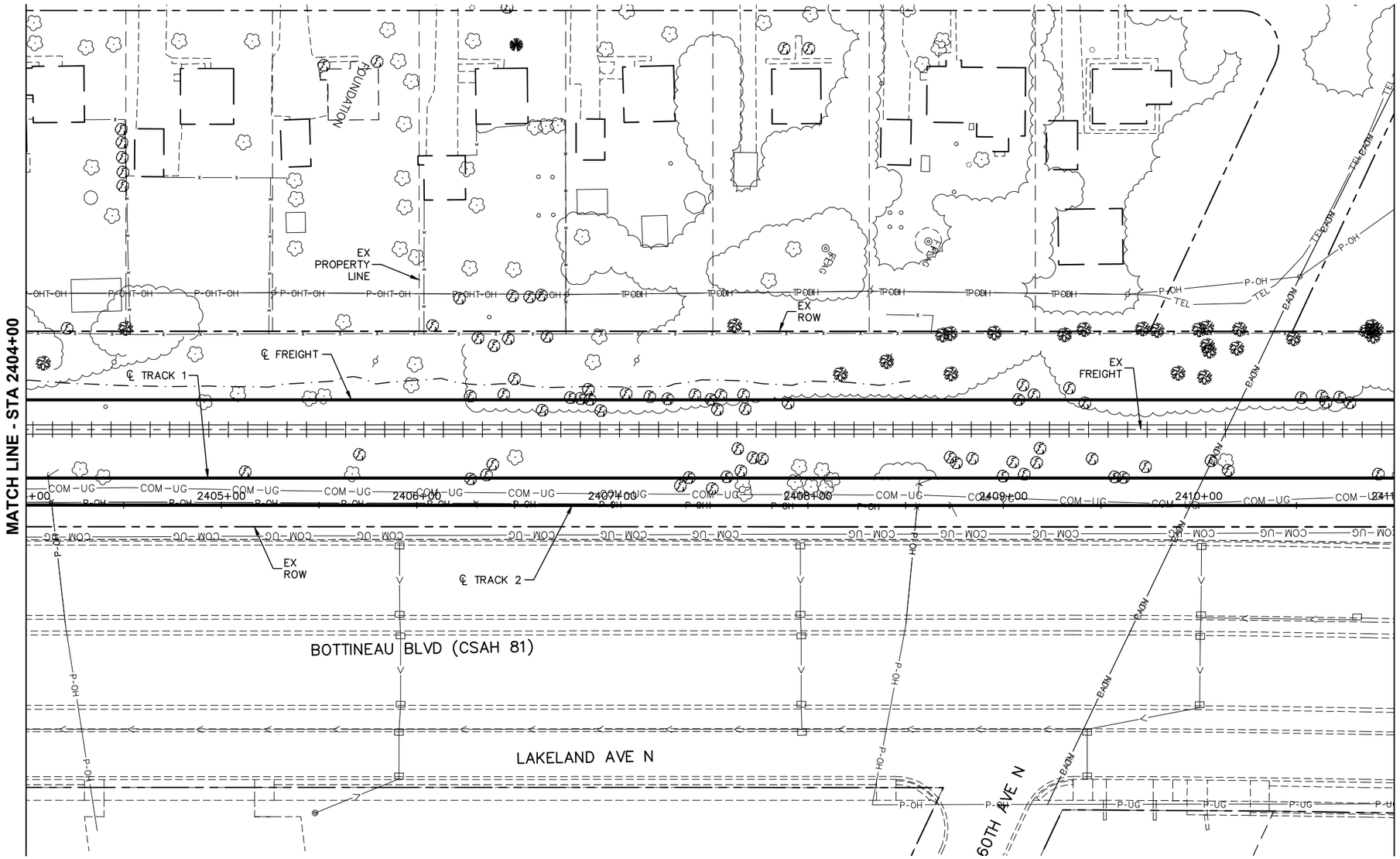

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METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2404+00 TO STA 2411+00

DISCIPLINE: SURVEY
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SHEET 16 OF 62

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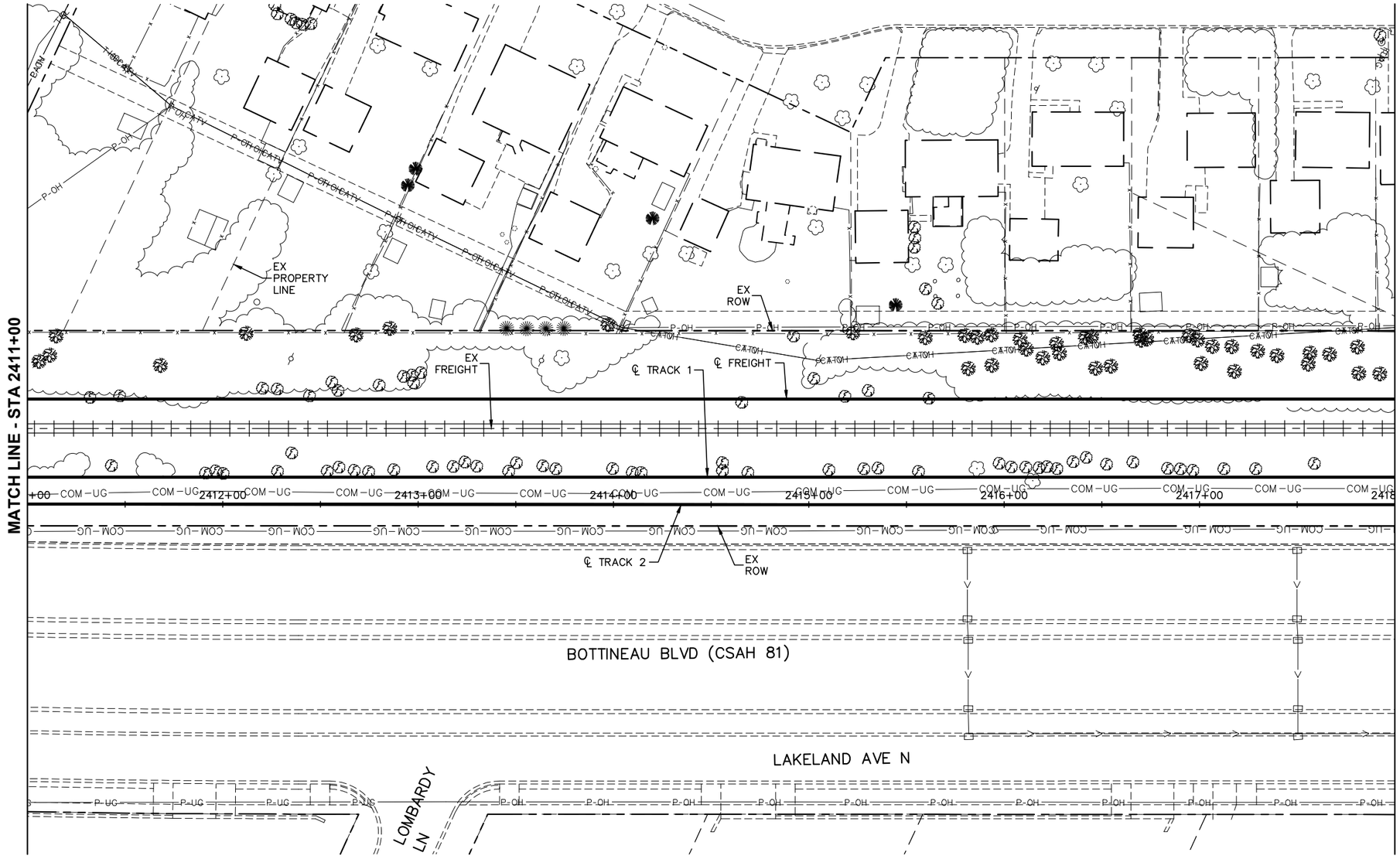

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2411+00 TO STA 2418+00

DISCIPLINE: SURVEY

SHEET NAME: C-EXCON-PLN-014

SHEET 17 OF 62

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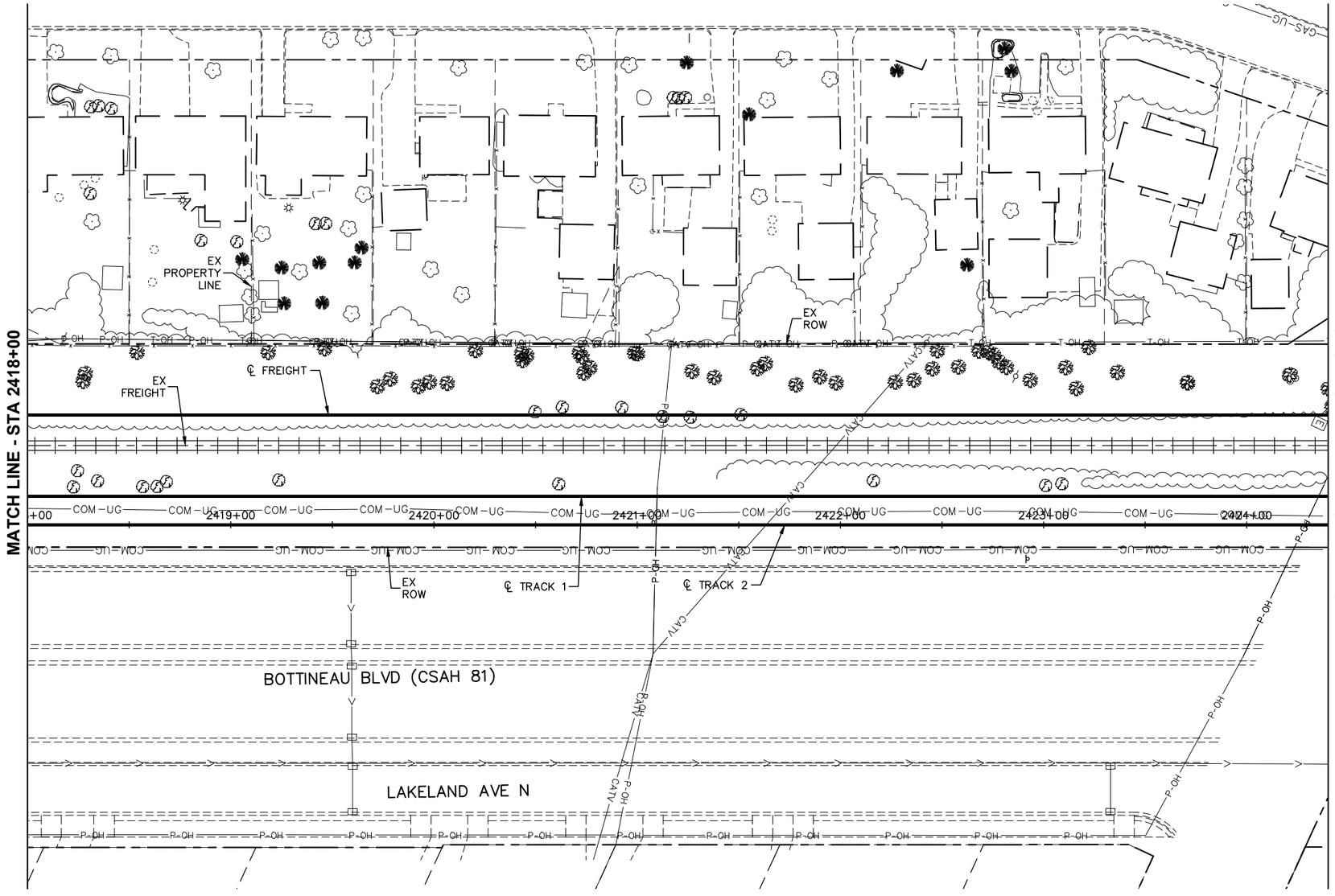

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SCALE IN FEET

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2418+00 TO STA 2424+40

DISCIPLINE: SURVEY

SHEET NAME: C-EXCON-PLN-015

SHEET 18 OF 62

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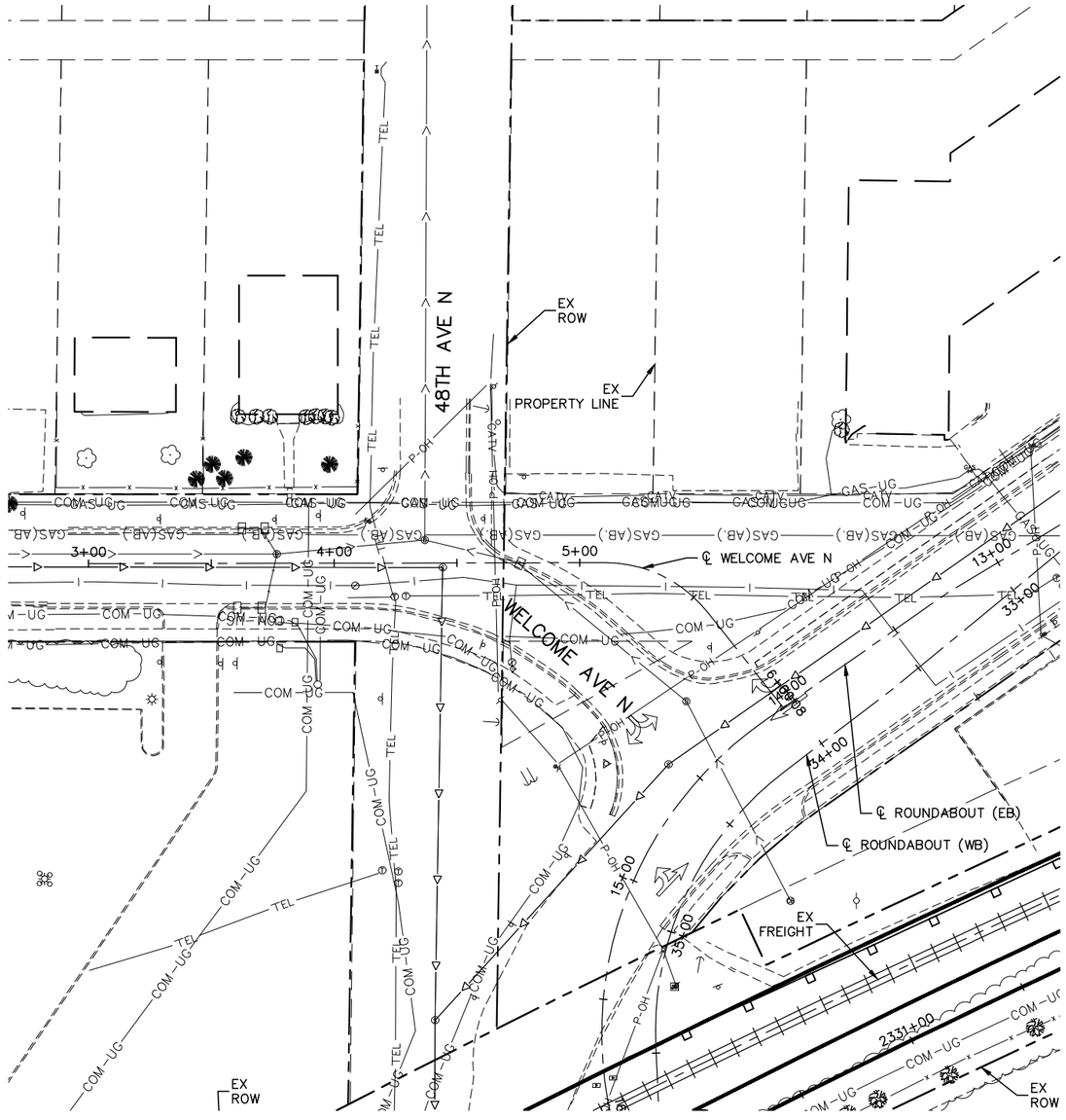

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SCALE IN FEET

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
WELCOME AVE N
EXISTING CONDITIONS
STA 3+00 TO STA 6+08

DISCIPLINE: SURVEY

SHEET NAME: C-EXCON-PLN-016

SHEET 19 OF 62

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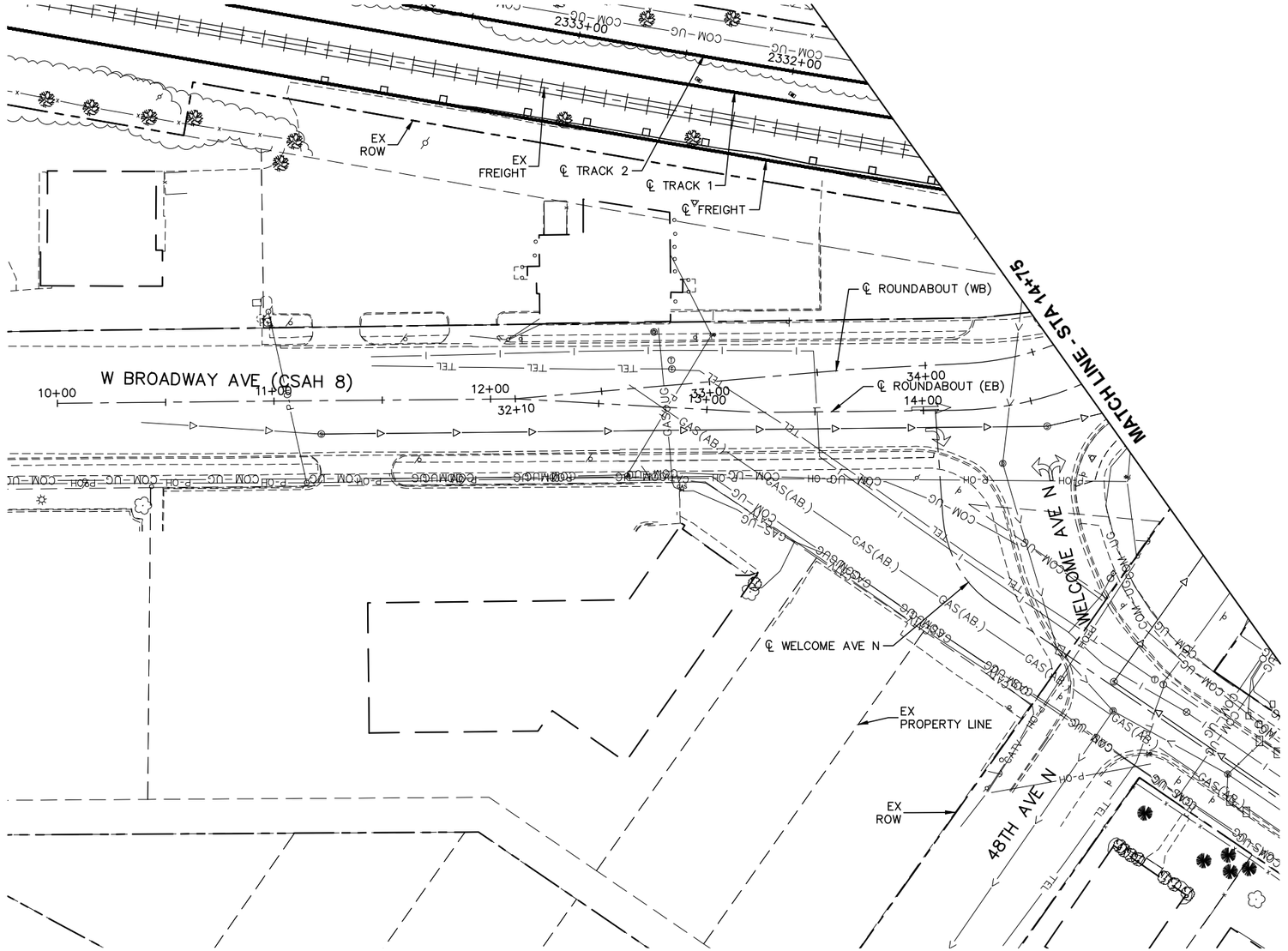

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SCALE IN FEET

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
W BROADWAY AVE
EXISTING CONDITIONS
STA 10+00 TO STA 14+75

DISCIPLINE: SURVEY

SHEET NAME: C-EXCON-PLN-017

SHEET 20 OF 62

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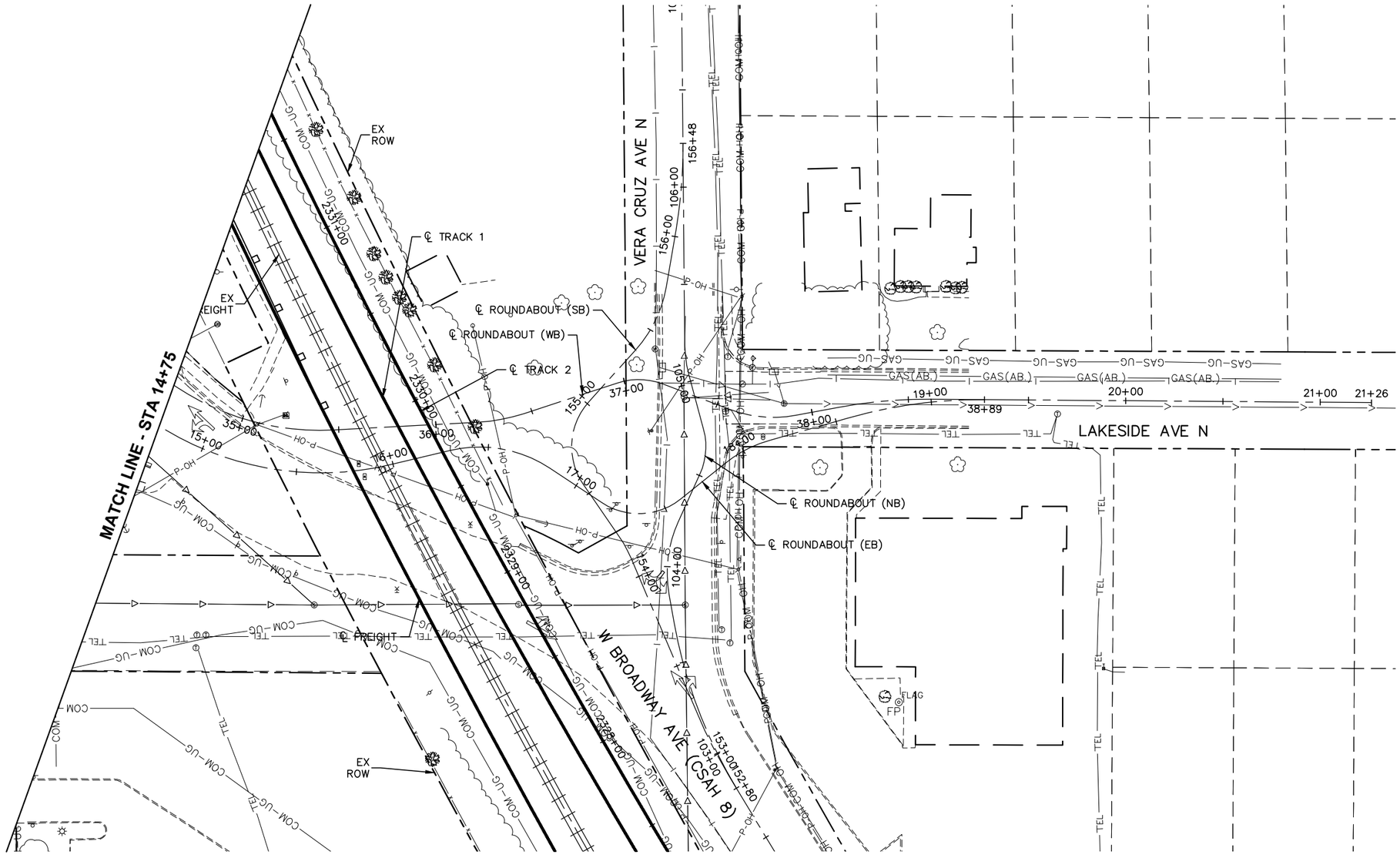

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SCALE IN FEET

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

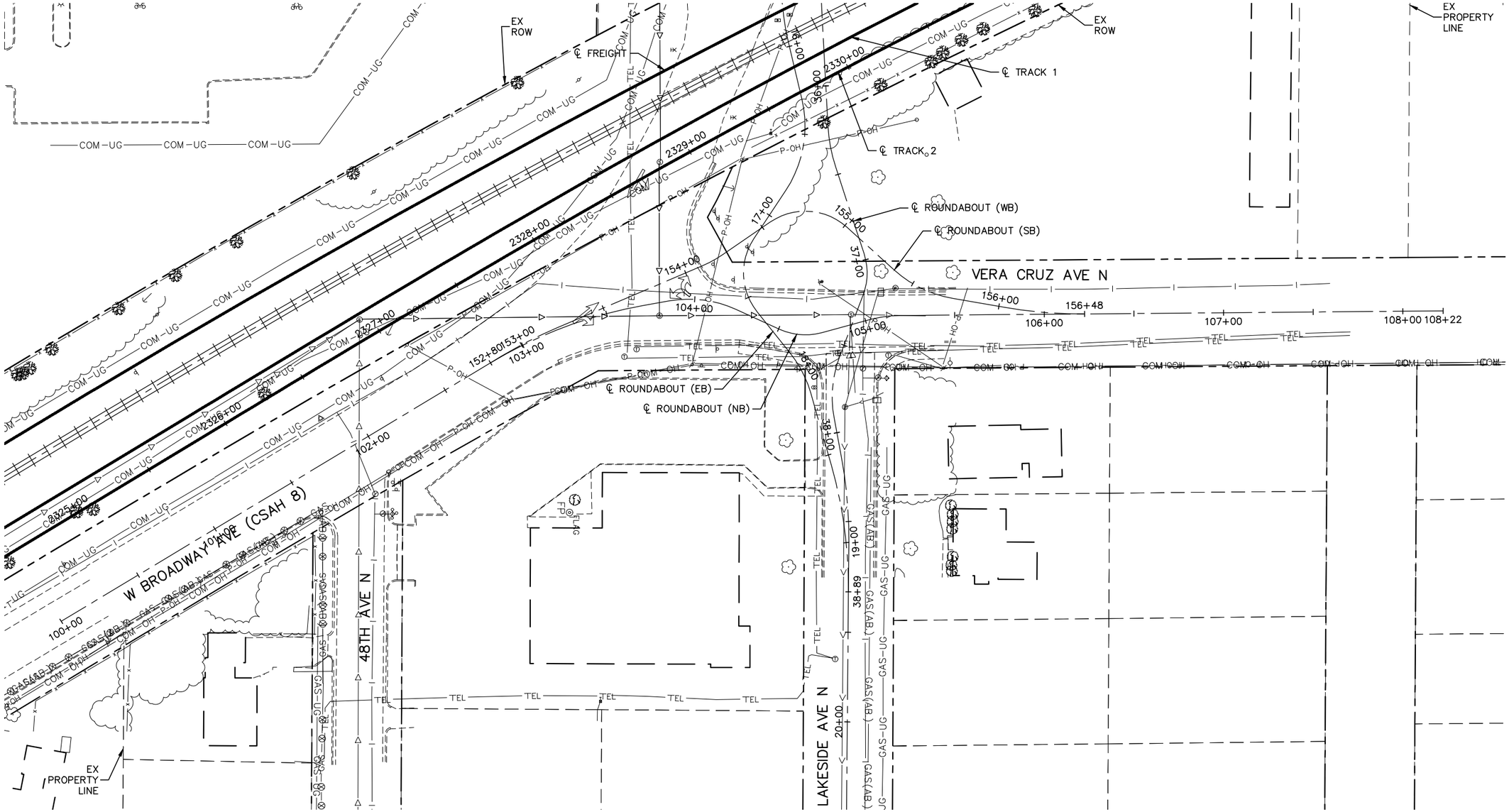
SEGMENT C
W BROADWAY AVE
EXISTING CONDITIONS
STA 14+75 TO STA 21+26

DISCIPLINE: **SURVEY**

SHEET NAME: **C-EXCON-PLN-018**

SHEET 21 OF 62

Dec, 07 2015 01:54 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\CIVIL\C-EXCON-PLN.dwg By: V-DordalJD



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

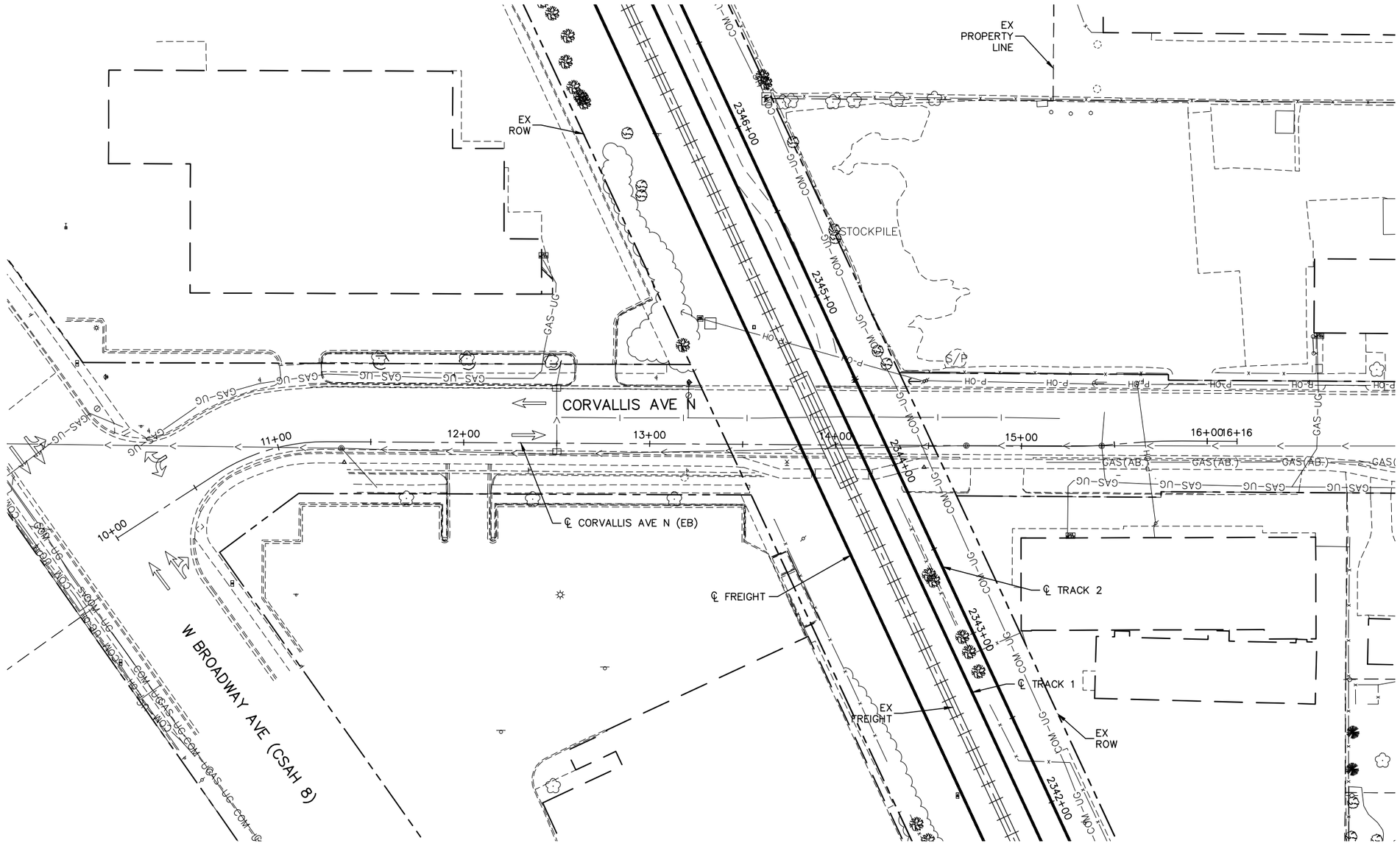
SEGMENT C
VERA CRUZ AVE
EXISITNG CONDITIONS
STA 100+00 TO STA 108+22

DISCIPLINE: SURVEY

SHEET NAME: C-EXCON-PLN-019

SHEET 22 OF 62

Dec, 01 2015 06:56 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\CIVIL\C-EXCON-PLN.dwg By: Newbauda



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION
Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
CORVALLIS AVE
EXISTING CONDITIONS
STA 10+00 TO STA 16+16

DISCIPLINE: SURVEY

SHEET NAME: C-EXCON-PLN-020

SHEET 23 OF 62

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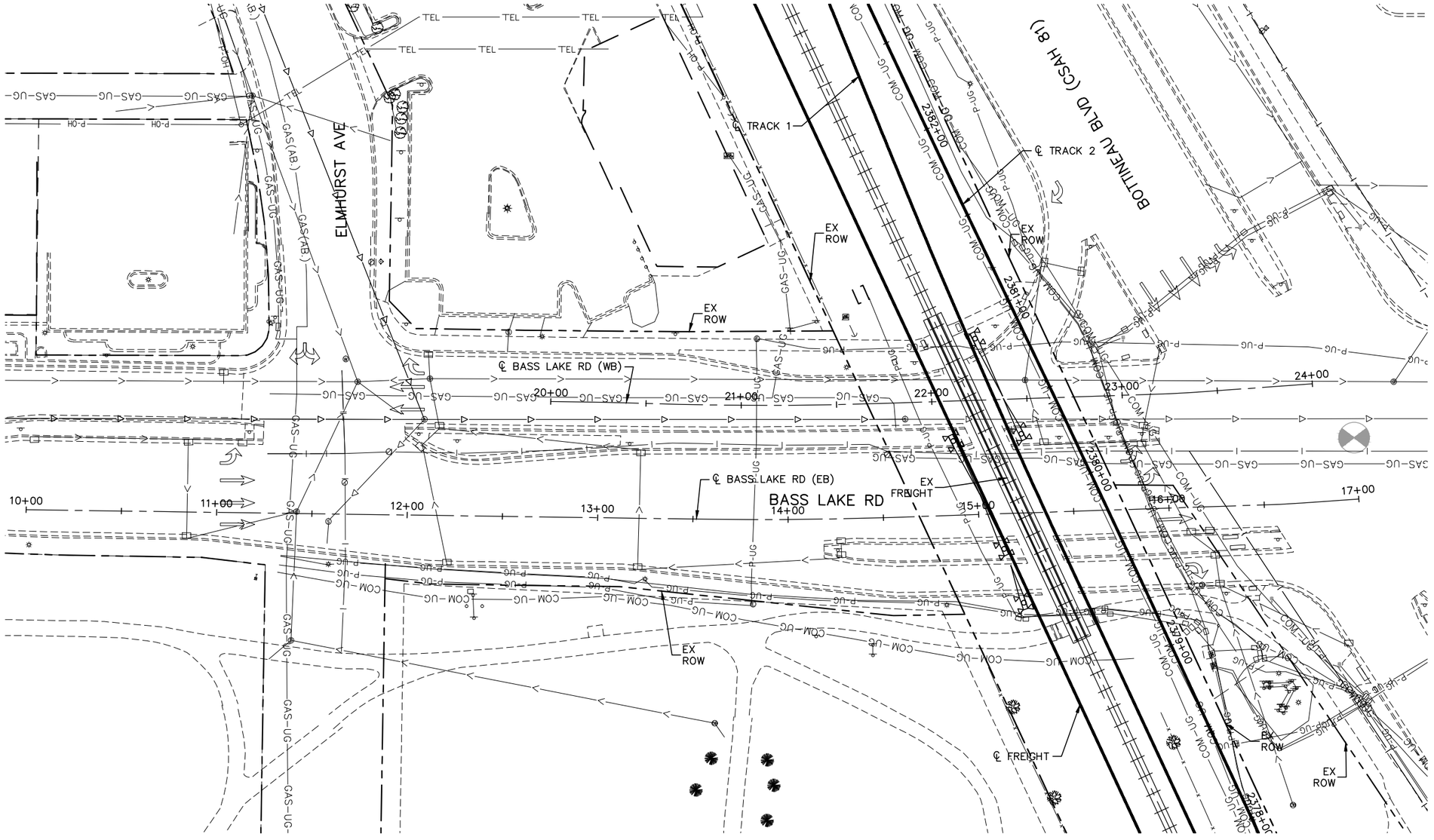

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
BASS LAKE RD
EXISITING CONDITIONS
STA 10+00 TO STA 17+00

DISCIPLINE: SURVEY

SHEET NAME: C-EXCON-PLN-021

SHEET 24 OF 62

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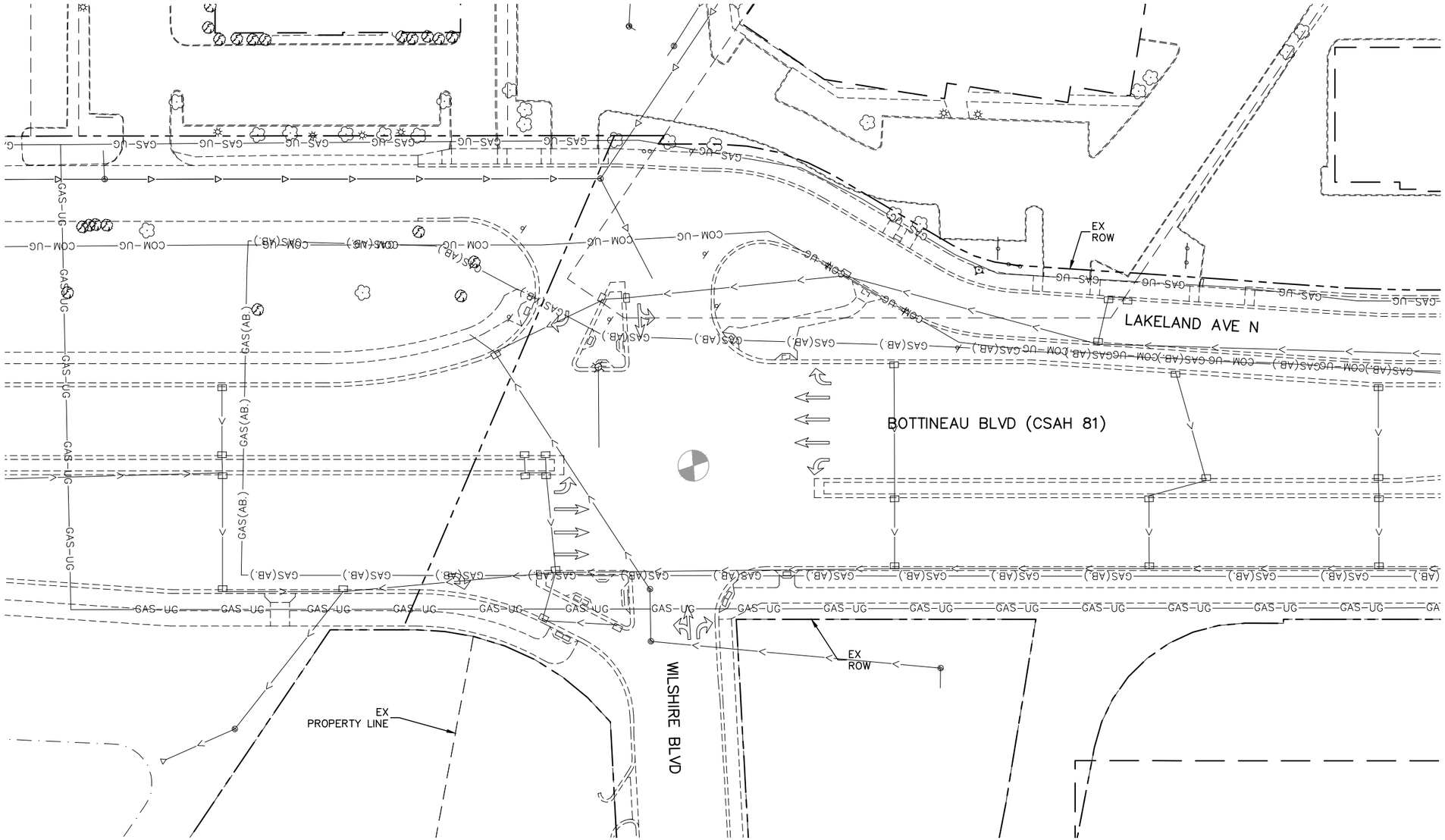

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SCALE IN FEET

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
WILSHIRE BLVD
EXISTING CONDITIONS

DISCIPLINE: **SURVEY**

SHEET NAME: **C-EXCON-PLN-022**

SHEET **25** OF **62**

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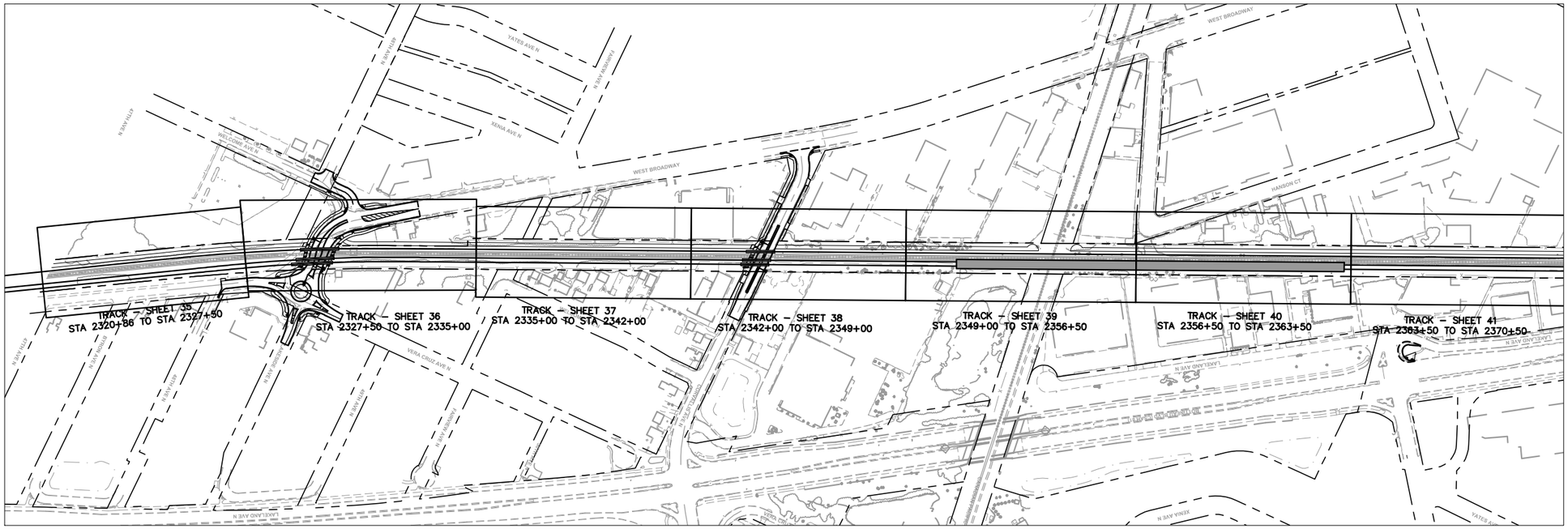
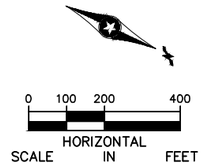
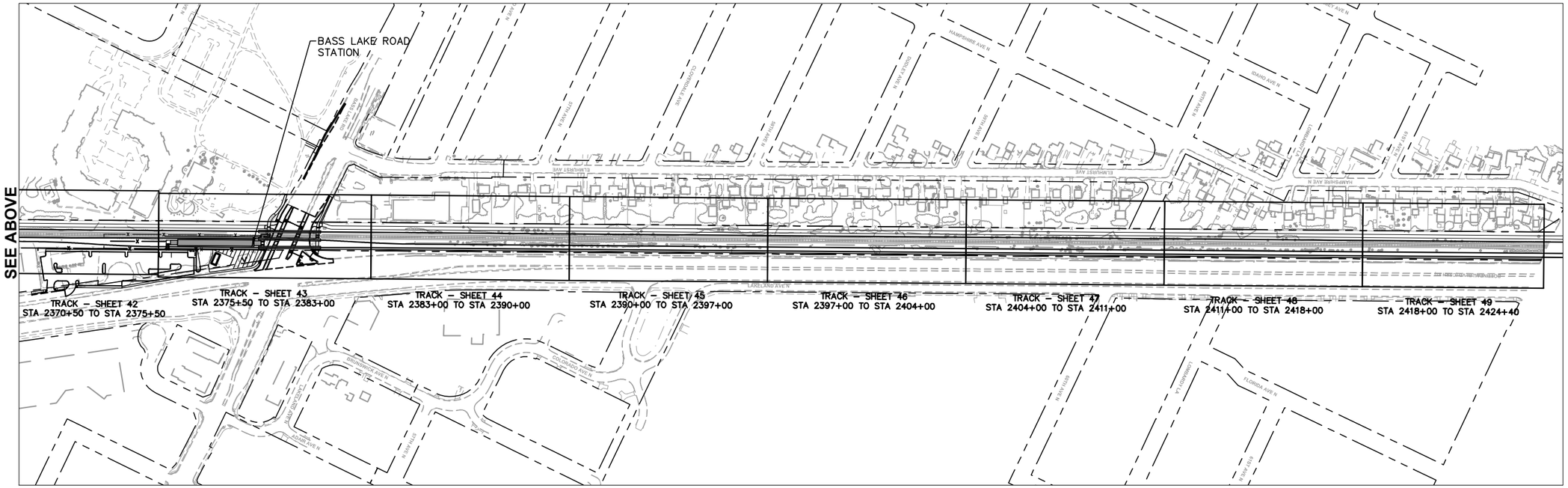






DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION
Bottineau LRT

METROPOLITAN COUNCIL

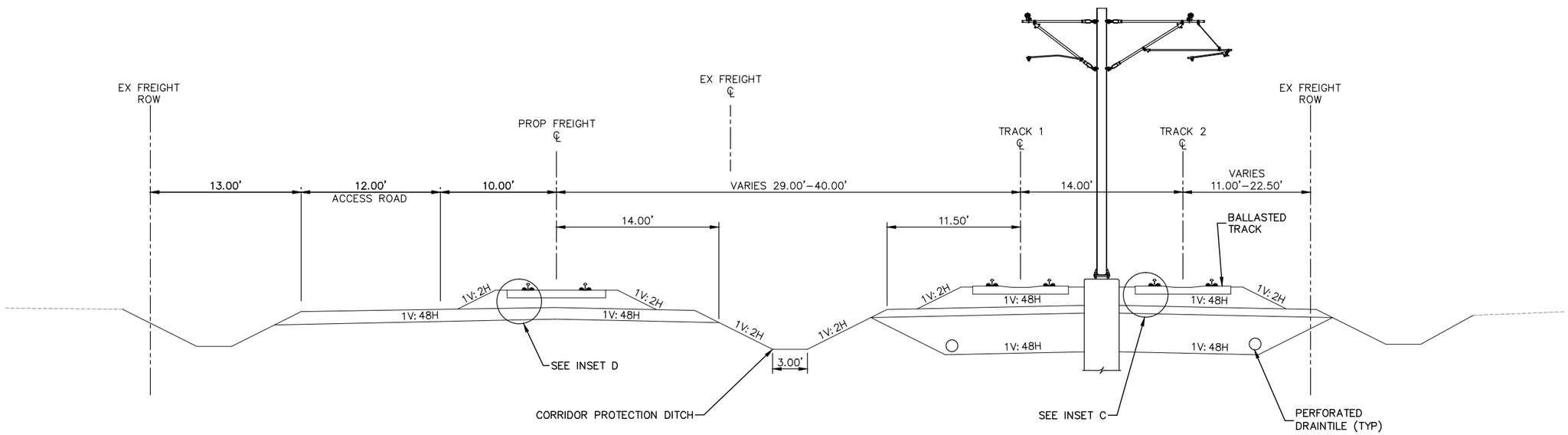
SEGMENT C
TRACK
SHEET LAYOUT INDEX

DISCIPLINE: TRACK

SHEET NAME: C-TRK-IDX-001

SHEET 26 OF 62

Dec, 07 2015 09:33 am H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-IDX.dwg By: V-Prudho



TYPICAL SECTION
STA. 2320+86 (BEGINNING OF SEGMENT C) TO 2331+53

NOTE:
1. FOR INSETS, SEE SHEET 34
2. PROPOSED RIGHT–OF–WAY NOT DETERMINED
3. LIMITS OF SECTION INCLUDE AT–GRADE CROSSINGS THAT ARE NOT DEPICTED

0 5 10
SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

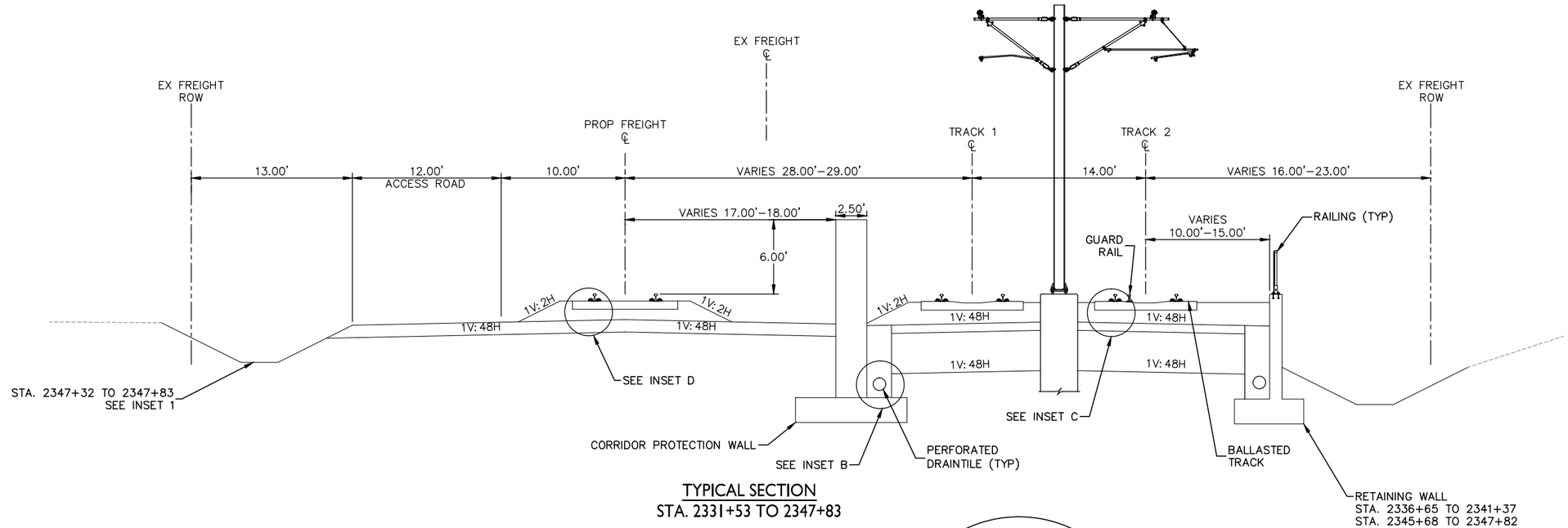
METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

SEGMENT C
TRACK
TYPICAL SECTIONS

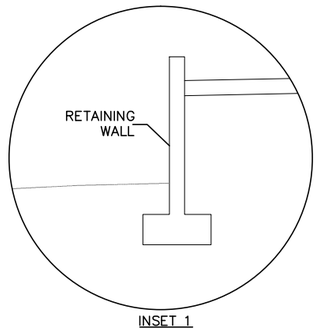
DISCIPLINE: TRACK
SHEET NAME: C-TRK-TYPS-001

SHEET 27 OF 62

Dec, 03 2015 03:33 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-TYPS.dwg By: V-MataJM



TYPICAL SECTION
STA. 2331+53 TO 2347+83



INSET 1

NOTE:
1. FOR INSETS, SEE SHEET 34
2. PROPOSED RIGHT–OF–WAY NOT DETERMINED
3. LIMITS OF SECTION INCLUDE AT–GRADE CROSSINGS THAT ARE NOT DEPICTED

0 5 10
SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

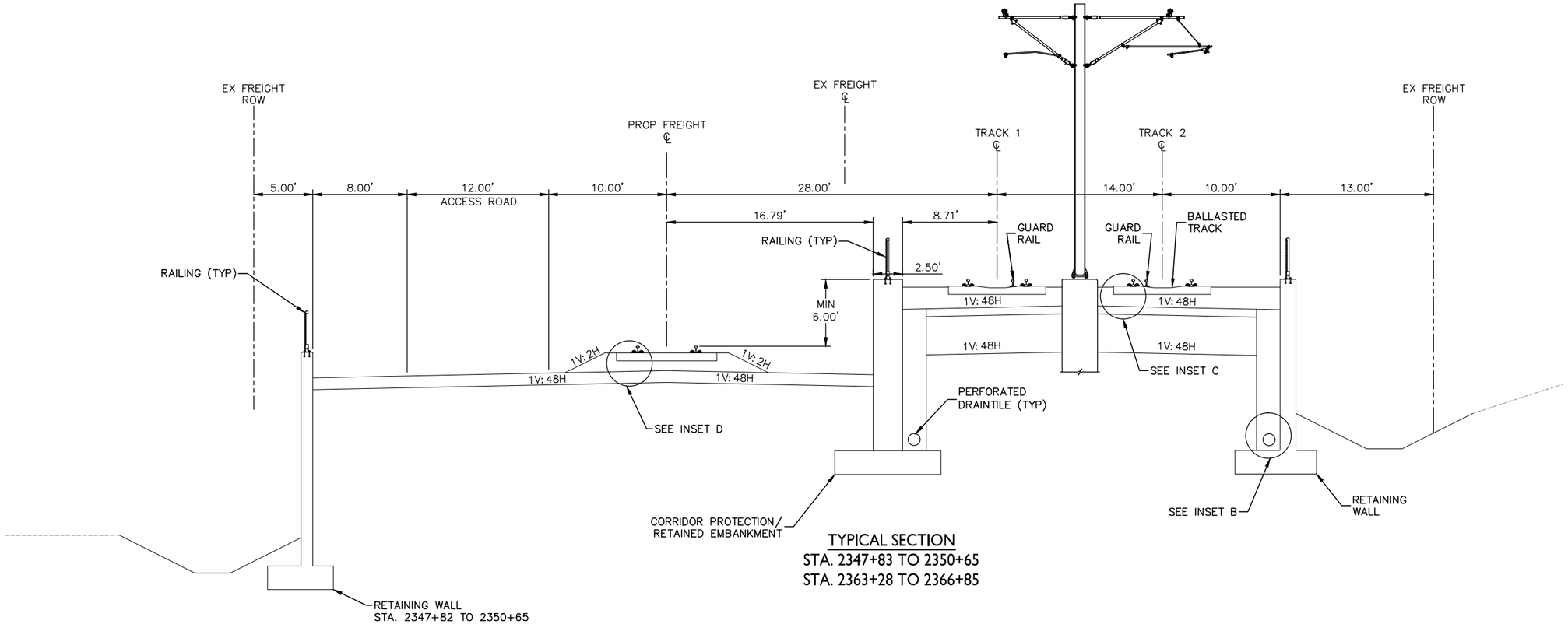
METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

SEGMENT C
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK
SHEET NAME: C-TRK-TYPS-002

SHEET 28 OF 62

Dec, 03 2015 03:33 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-TYPS.dwg By: V-MataJM



TYPICAL SECTION
STA. 2347+83 TO 2350+65
STA. 2363+28 TO 2366+85

NOTE:
1. FOR INSETS, SEE SHEET 34
2. PROPOSED RIGHT-OF-WAY NOT DETERMINED

0 5 10
SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

SEGMENT C
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK
SHEET NAME: C-TRK-TYPS-003

SHEET 29 OF 62

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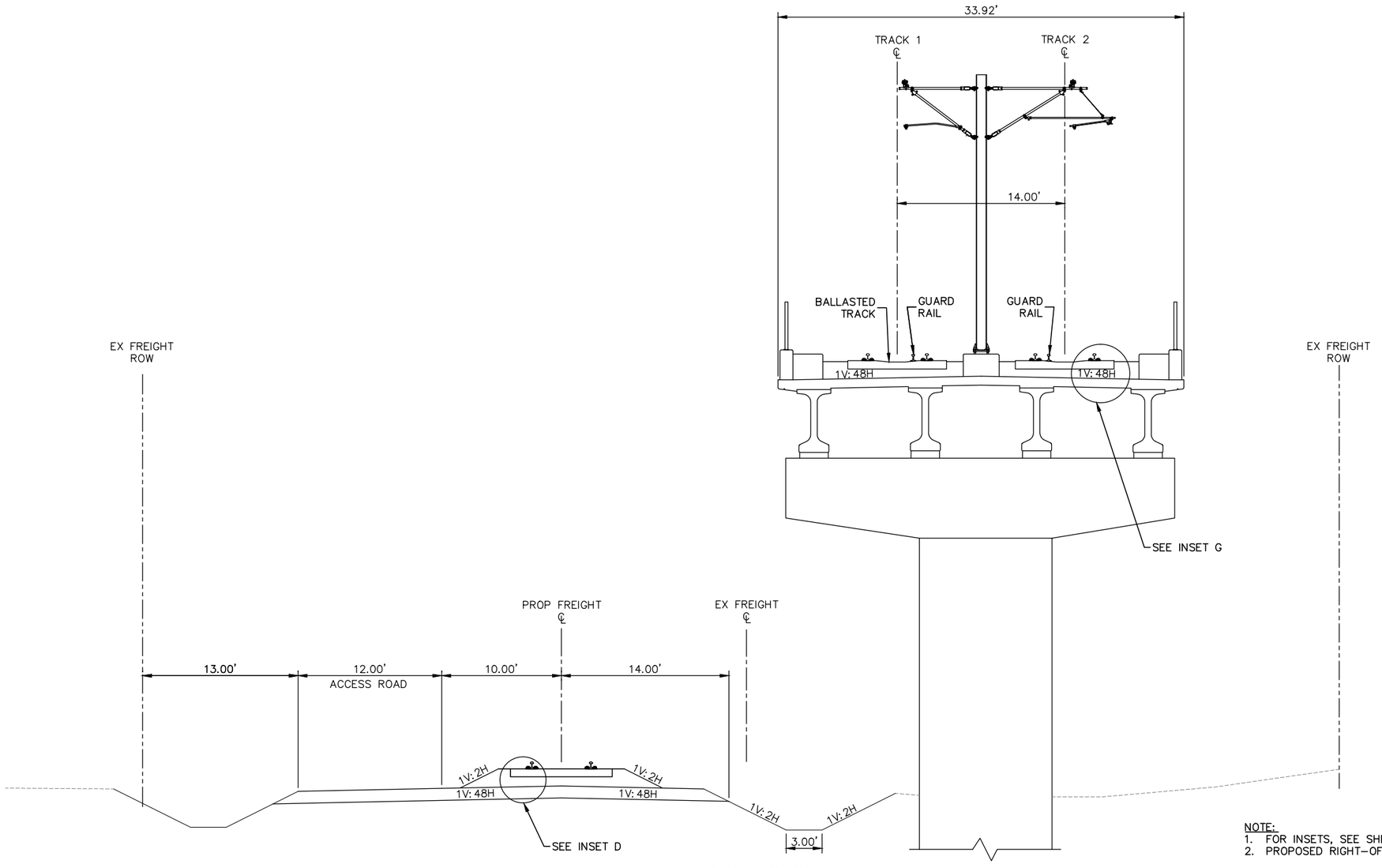

TYPICAL SECTION
LRT BRIDGE OVER CP RAIL
STA. 2350+65 TO 2363+28

NOTE:
1. FOR INSETS, SEE SHEET 34
2. PROPOSED RIGHT-OF-WAY NOT DETERMINED

0 5 10
SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
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MUNICIPAL CONSENT

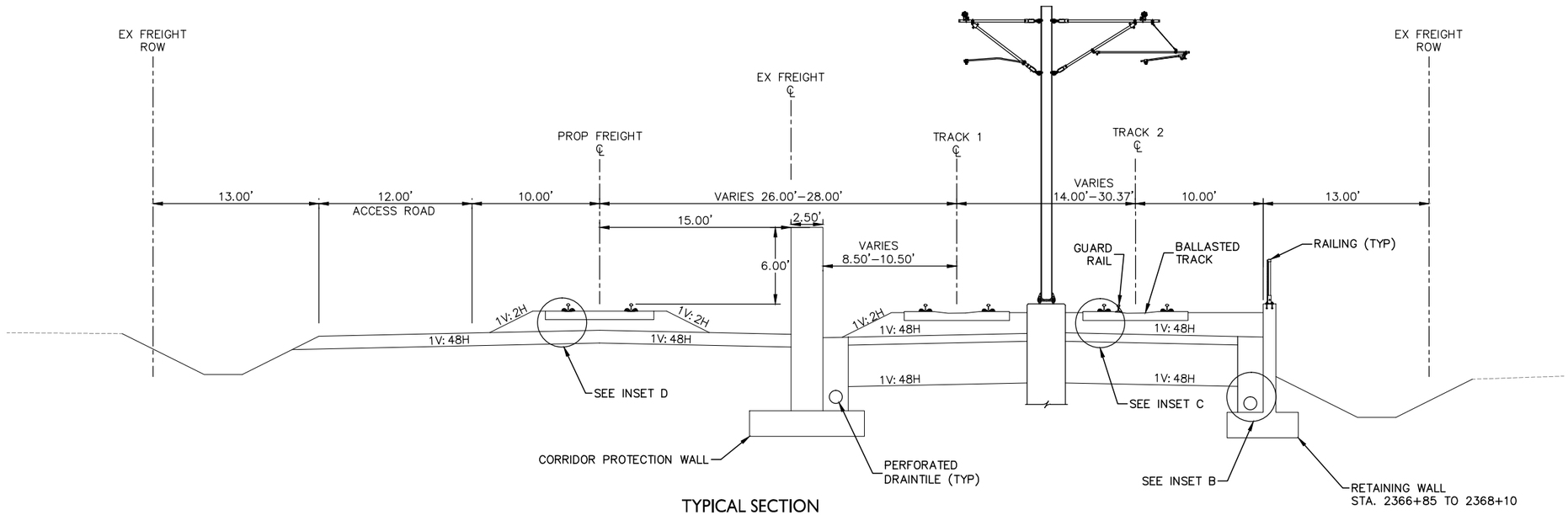
METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

SEGMENT C
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK
SHEET NAME: C-TRK-TYPS-004

SHEET 30 OF 62

Dec, 03 2015 03:34 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-TYPS.dwg By: V-MataJM



TYPICAL SECTION
STA. 2366+85 TO 2375+72

NOTE:
1. FOR INSETS, SEE SHEET 34
2. PROPOSED RIGHT–OF–WAY NOT DETERMINED

0 5 10
SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

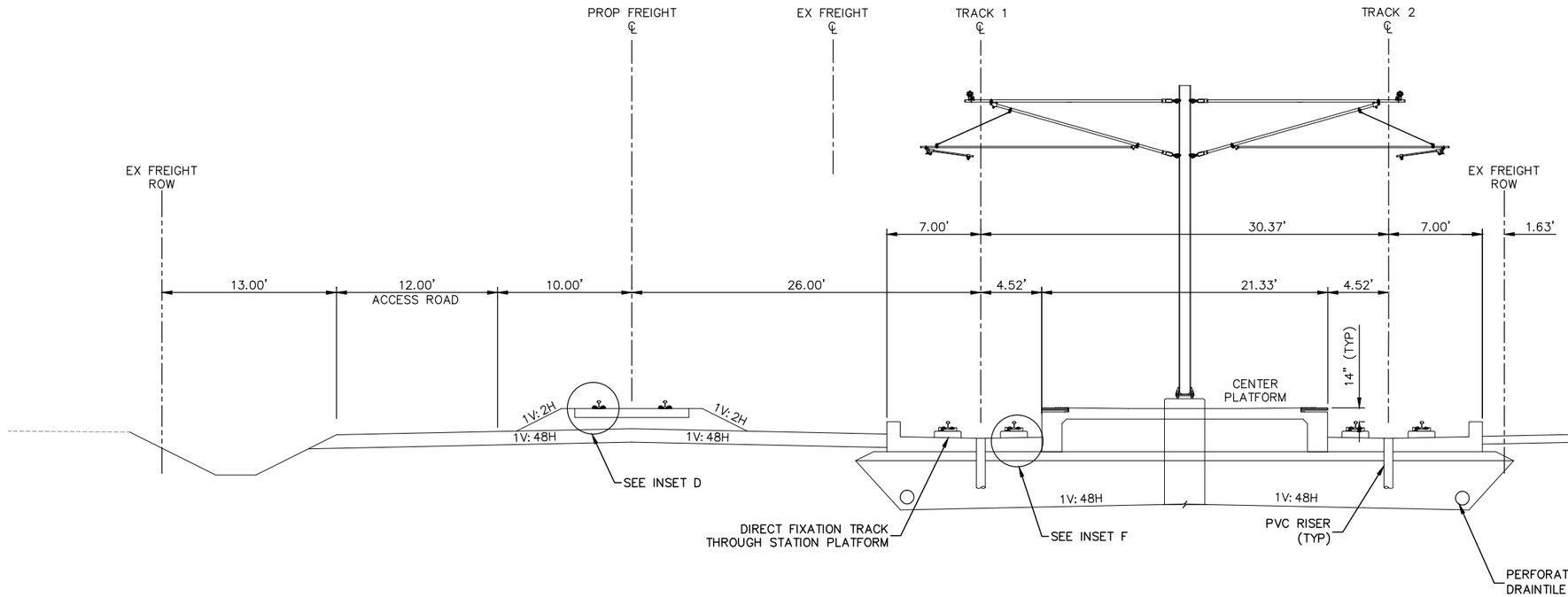
METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

SEGMENT C
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK
SHEET NAME: C-TRK-TYPS-005

SHEET 31 OF 62

Dec, 03 2015 03:35 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-TYPS.dwg By: V-MataJM



TYPICAL SECTION
BASS LAKE ROAD STATION
STA. 2375+72 TO 2379+03

NOTE:
1. FOR INSETS, SEE SHEET 34
2. PROPOSED RIGHT-OF-WAY NOT DETERMINED

0 5 10
SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

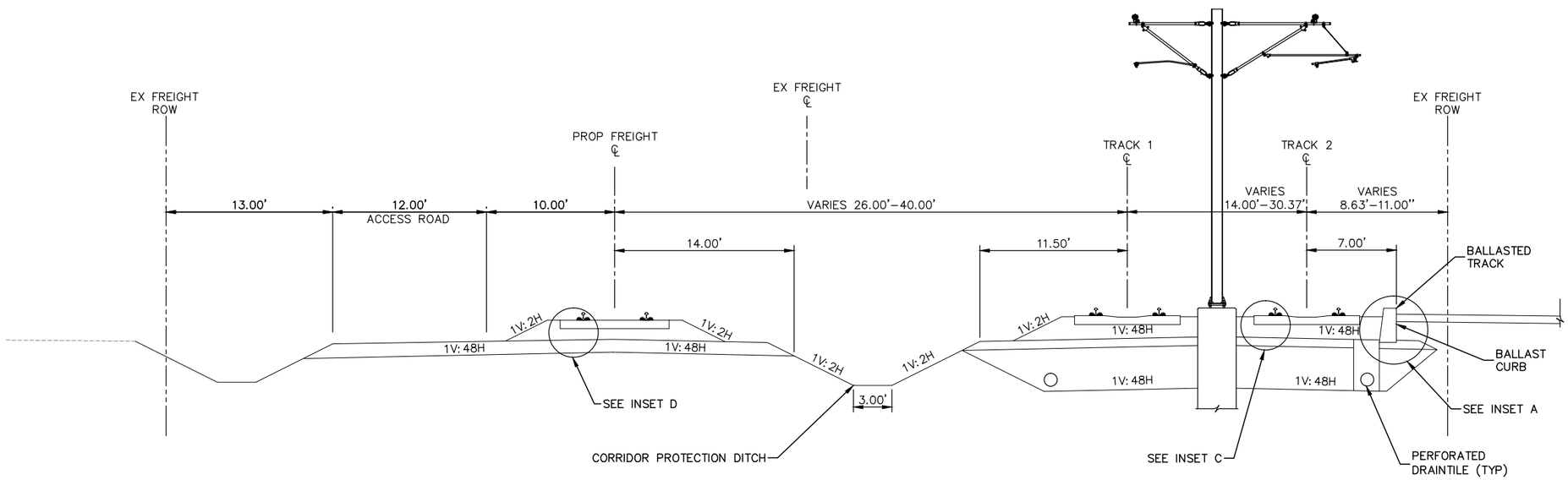
METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

SEGMENT C
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK
SHEET NAME: C-TRK-TYPS-006

SHEET 32 OF 62

Dec, 07 2015 03:30 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION
STA. 2379+03 TO 2424+40 (SEGMENT C END)

NOTE:
1. FOR INSETS, SEE SHEET 34
2. PROPOSED RIGHT–OF–WAY NOT DETERMINED
3. LIMITS OF SECTION INCLUDE AT–GRADE CROSSINGS THAT ARE NOT DEPICTED

0 5 10
SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

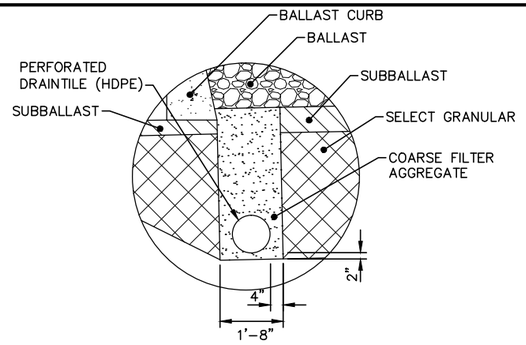
METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

SEGMENT C
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK
SHEET NAME: C-TRK-TYPS-007

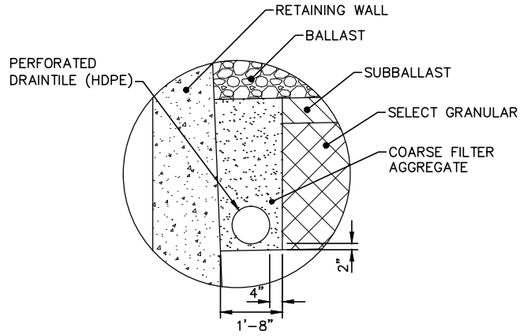
SHEET 33 OF 62

Dec, 03 2015 03:36 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-TYPS.dwg By: V-MataJM



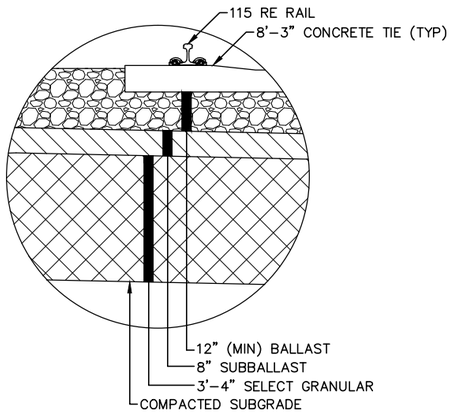
INSET A – BALLAST CURB INTERFACE

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

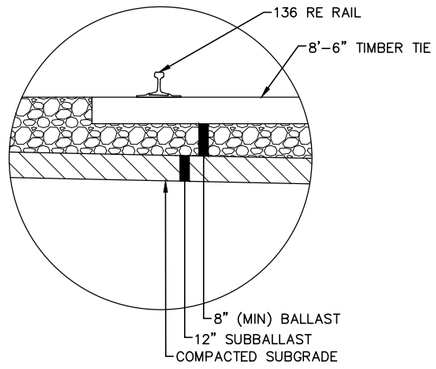


INSET B – RETAINING WALL INTERFACE

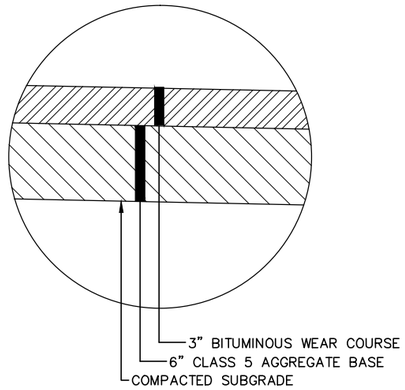
NOTE: LEFT SIDE DRAINAGE TRENCH ILLUSTRATED.
FOR RIGHT SIDE, MIRROR SECTION.



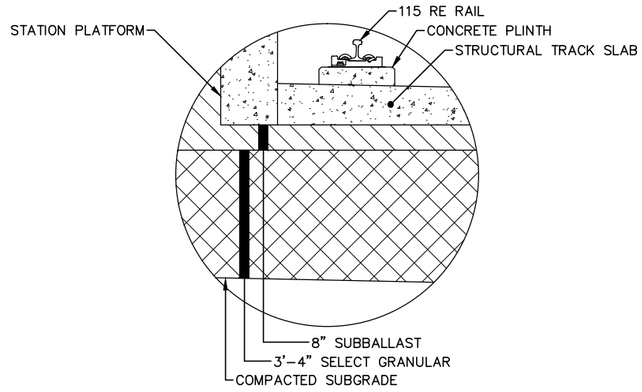
INSET C – TYPICAL BALLASTED TRACK



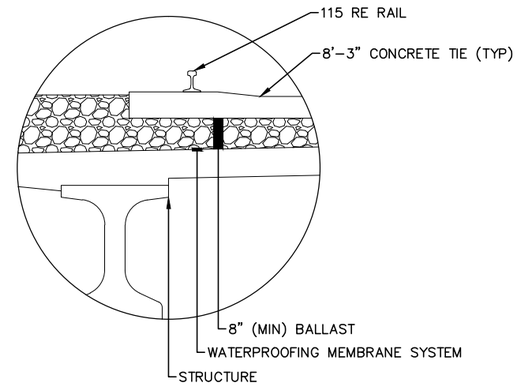
INSET D – TYPICAL BALLASTED FREIGHT TRACK



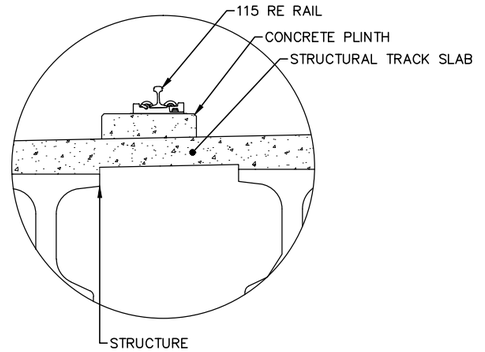
INSET E – TYPICAL TRAIL



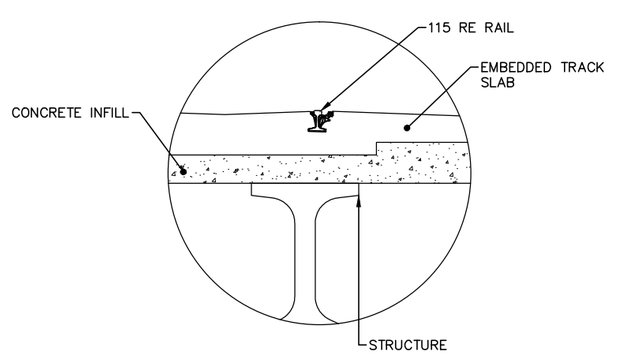
INSET F – TYPICAL DIRECT FIXATION INTERFACE AT STATION PLATFORM



INSET G – BALLASTED LRT TRACK ON STRUCTURE



INSET H – DIRECT FIXATION LRT TRACK ON STRUCTURE



INSET I – EMBEDDED LRT TRACK ON STRUCTURE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

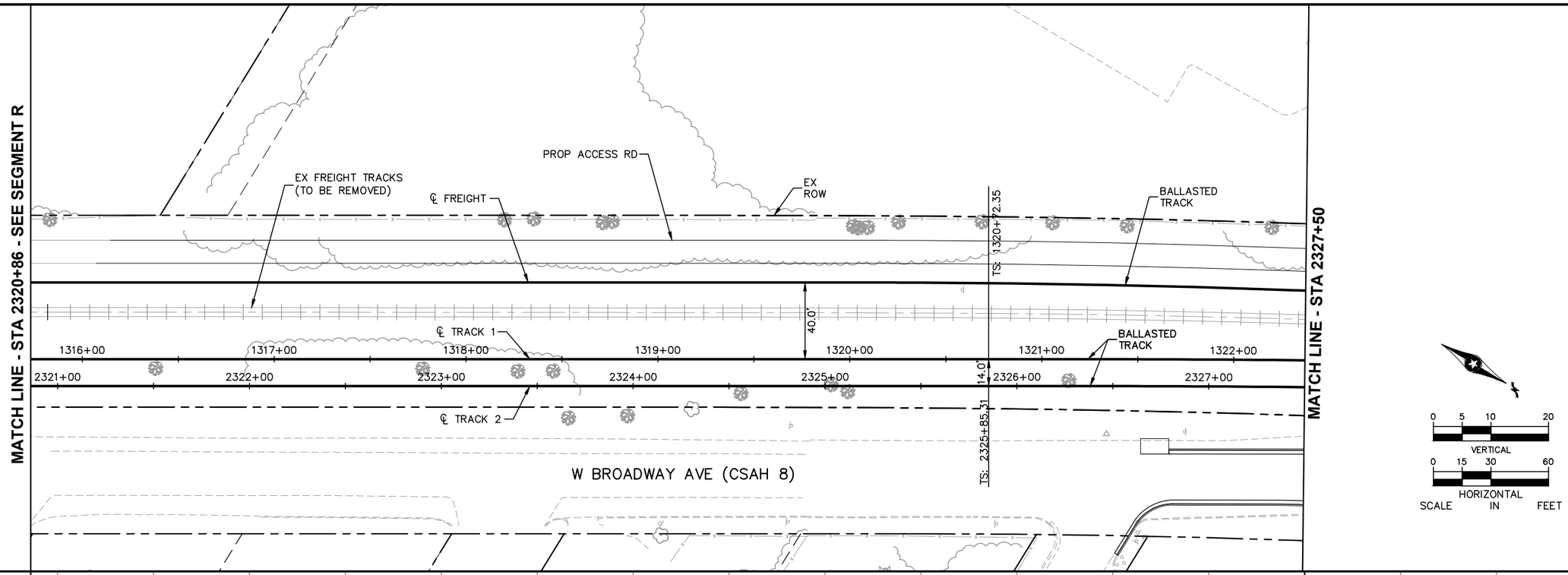
METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

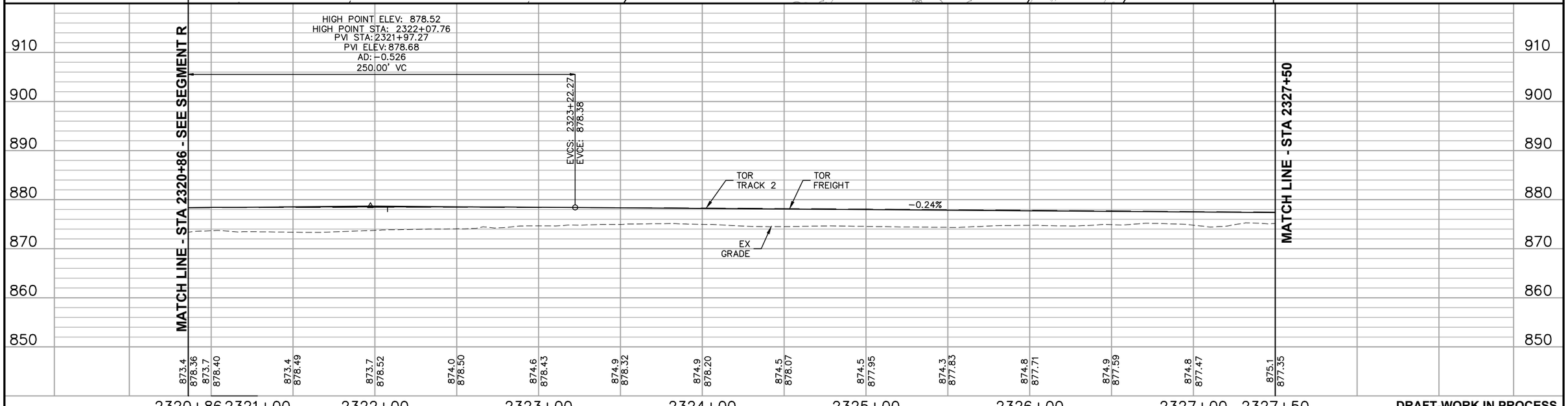
SEGMENT C
TRACK
TYPICAL SECTIONS

DISCIPLINE: **TRACK**
SHEET NAME: **C-TRK-TYPS-008**

SHEET **34** OF **62**

Dec, 03 2015 03:37 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-TYPS.dwg By: V-MatoJM





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

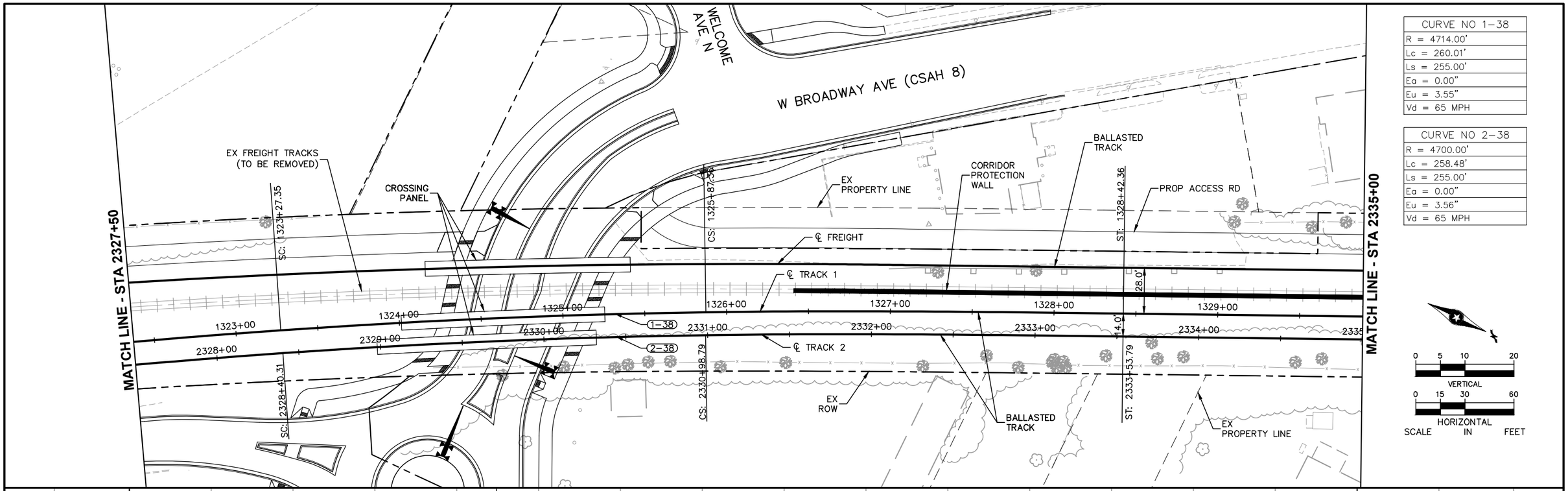
SEGMENT C
RAIL CORRIDOR
PLAN AND PROFILE
STA 2320+86 TO STA 2327+50

DISCIPLINE: TRACK

SHEET NAME: C-TRK-PPFL-001

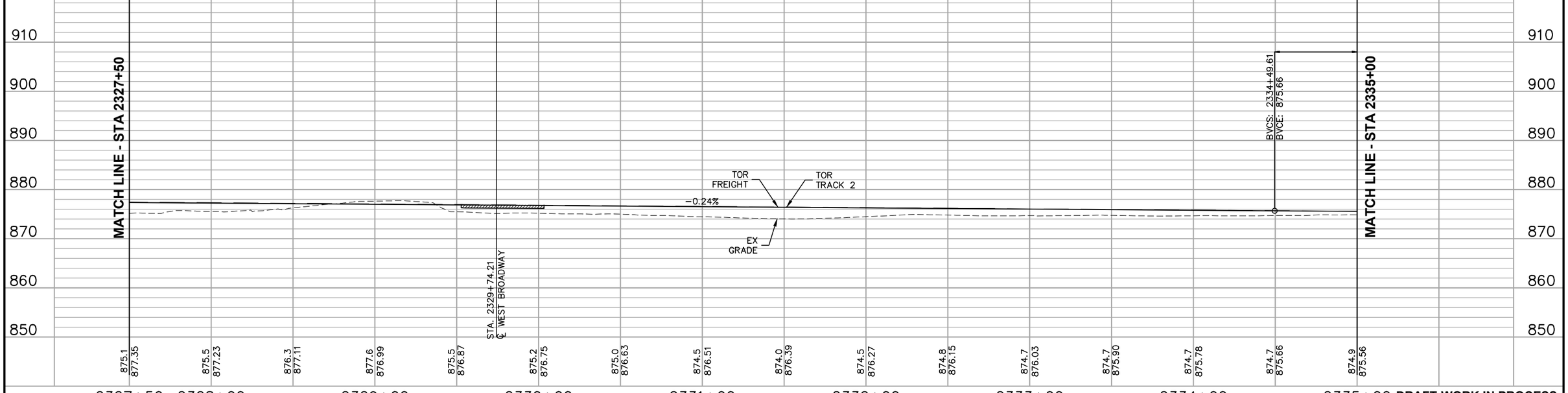
SHEET 35 OF 62

Dec, 03 2015 03:41 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-PPFL.dwg By: V-MotoJM



CURVE NO 1-38
R = 4714.00'
Lc = 260.01'
Ls = 255.00'
Ea = 0.00"
Eu = 3.55"
Vd = 65 MPH

CURVE NO 2-38
R = 4700.00'
Lc = 258.48'
Ls = 255.00'
Ea = 0.00"
Eu = 3.56"
Vd = 65 MPH



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

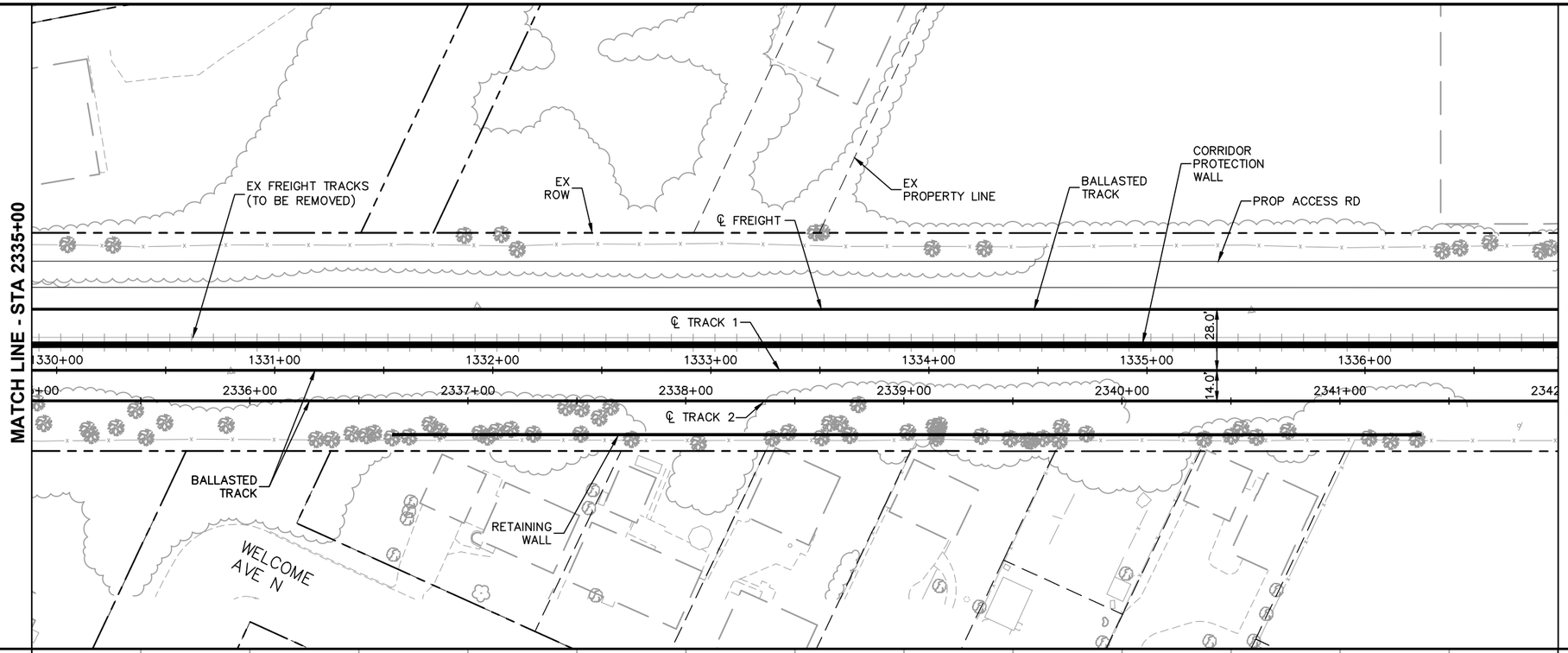
SEGMENT C
RAIL CORRIDOR
PLAN AND PROFILE
STA 2327+50 TO STA 2335+00

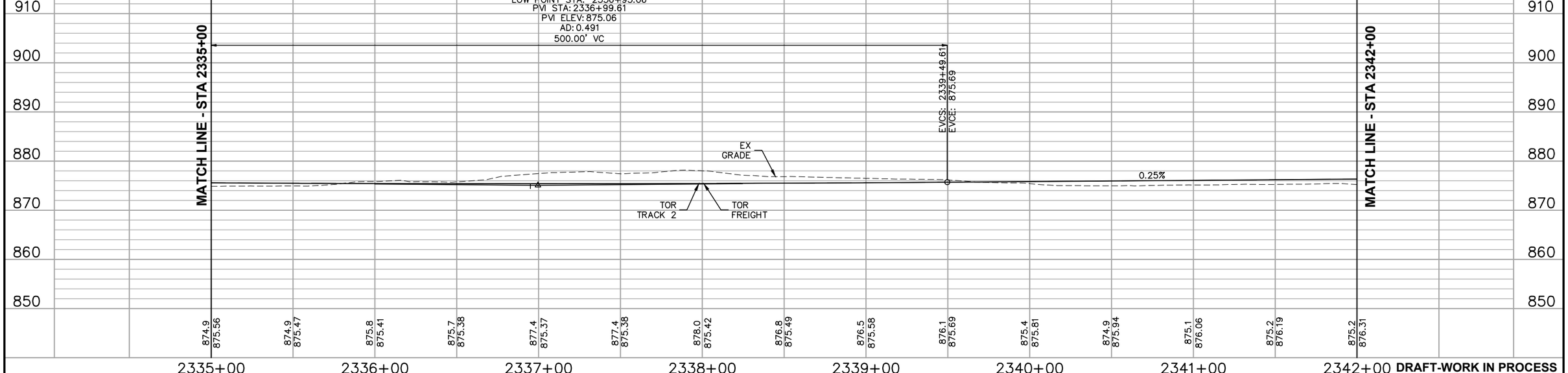
DISCIPLINE: TRACK

SHEET NAME: C-TRK-PPFL-002

SHEET 36 OF 62

Dec, 03 2015 03:43 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-PPFL.dwg By: V-MatoJM





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

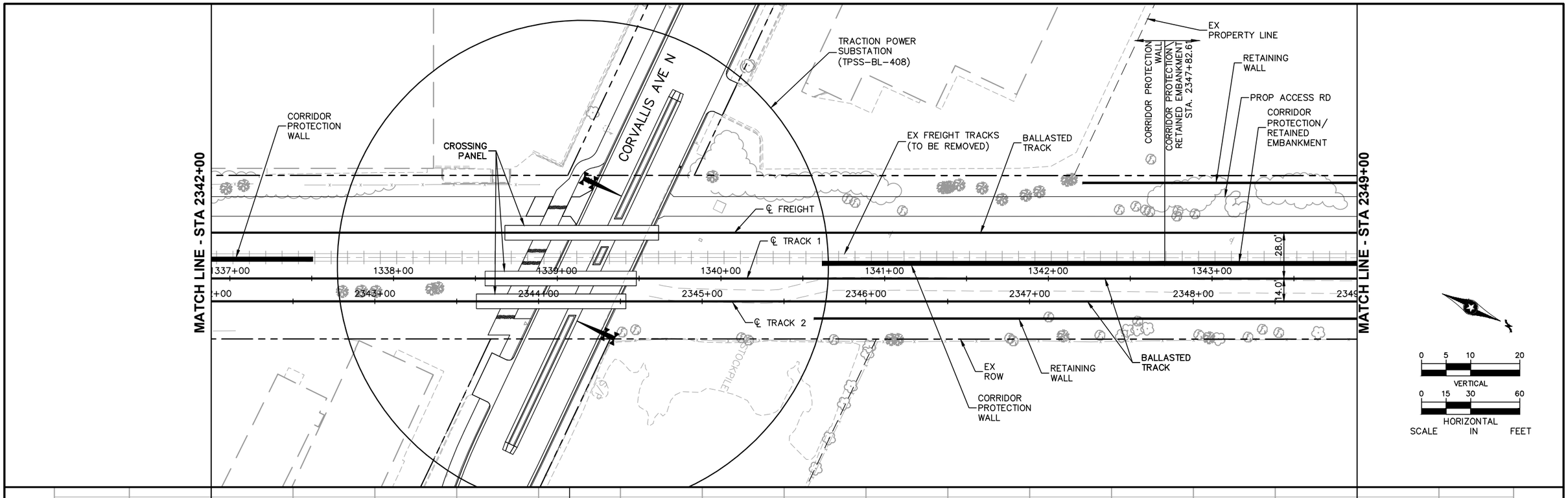
SEGMENT C
RAIL CORRIDOR
PLAN AND PROFILE
STA 2335+00 TO STA 2342+00

DISCIPLINE: TRACK

SHEET NAME: C-TRK-PPFL-003

SHEET 37 OF 62

Dec, 03 2015 03:44 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-PPFL.dwg By: V-MatajM



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

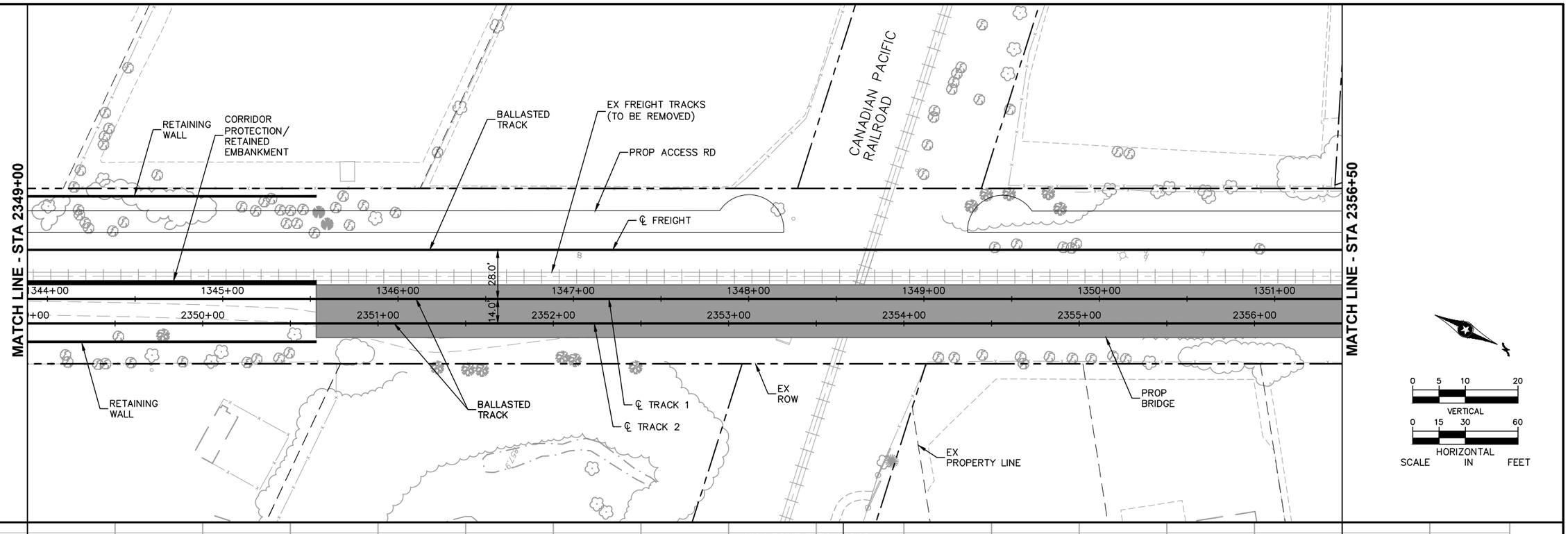
SEGMENT C
RAIL CORRIDOR
PLAN AND PROFILE
STA 2342+00 TO STA 2349+00

DISCIPLINE: TRACK

SHEET NAME: C-TRK-PPFL-004

SHEET 38 OF 62

Dec, 03 2015 03:45 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\WC\PLAN SHEETS\TRACK\C-TRK-PPFL.dwg By: V-MataJM



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

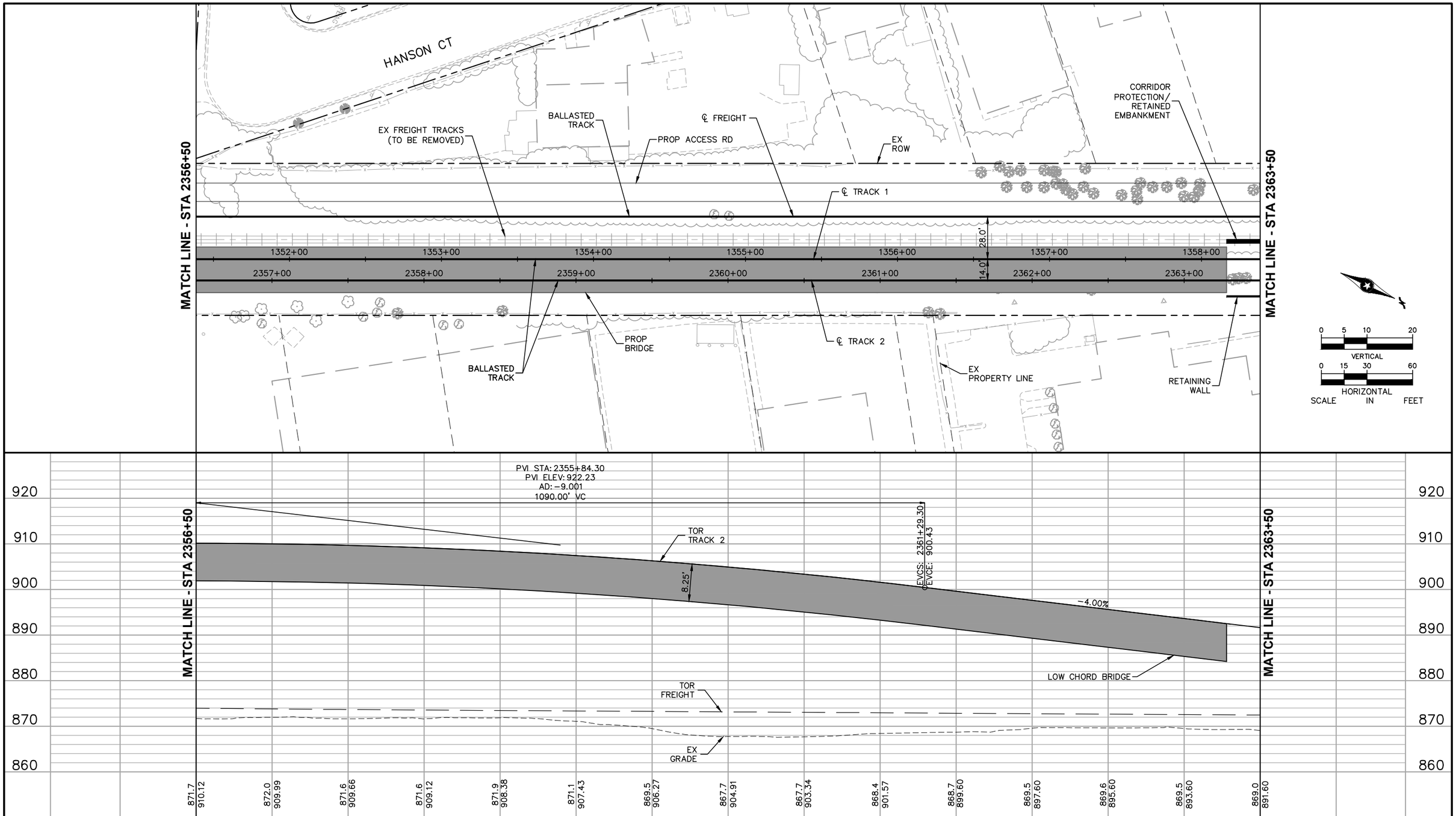
SEGMENT C
RAIL CORRIDOR
PLAN AND PROFILE
STA 2349+00 TO STA 2356+50

DISCIPLINE: TRACK

SHEET NAME: C-TRK-PPFL-005

SHEET 39 OF 62

Dec, 03 2015 03:46 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-PPFL.dwg By: V-MatojM



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

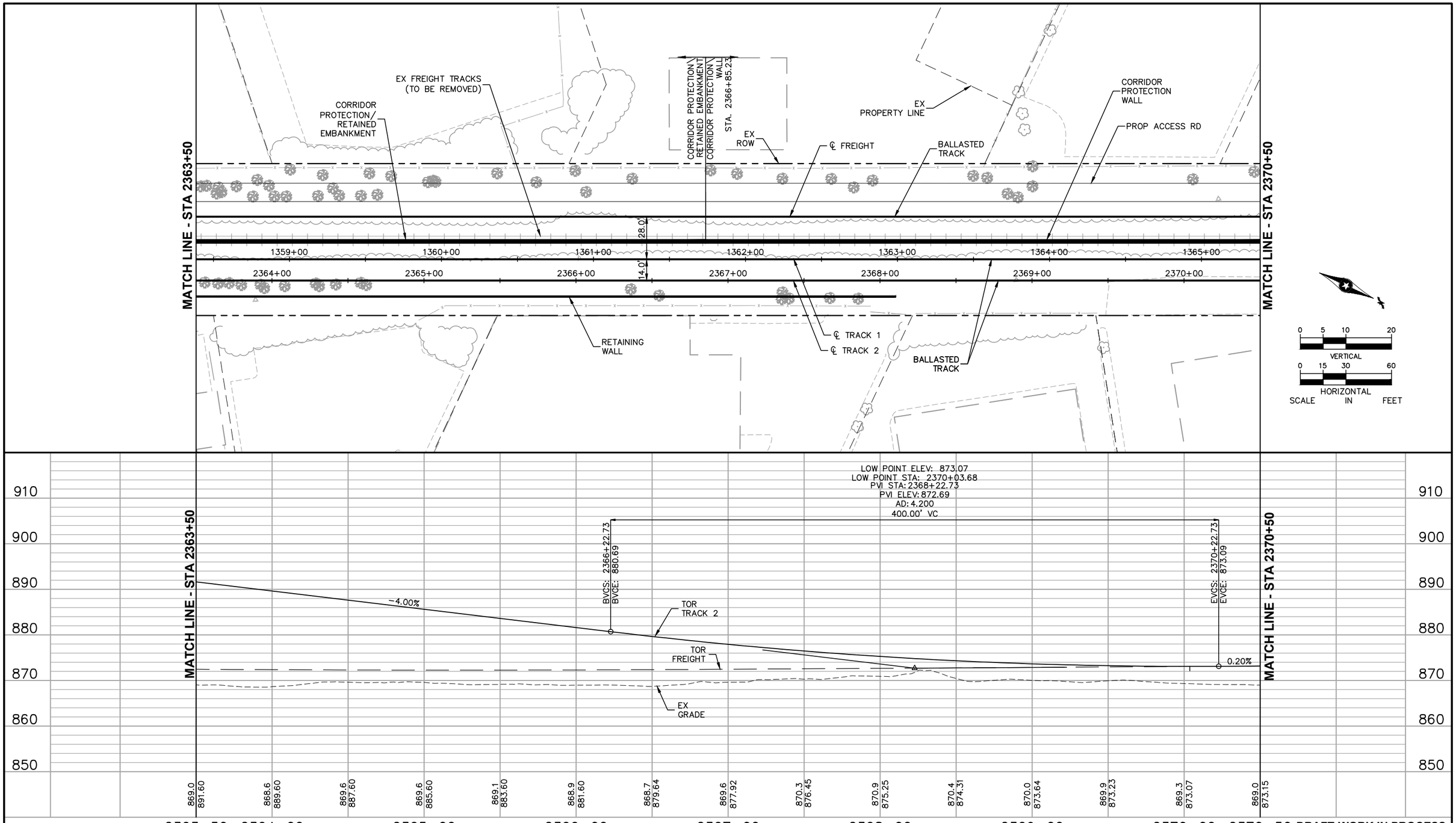
SEGMENT C
RAIL CORRIDOR
PLAN AND PROFILE
STA 2356+50 TO STA 2363+50

DISCIPLINE: TRACK

SHEET NAME: C-TRK-PPFL-006

SHEET 40 OF 62

Dec, 03 2015 03:47 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-PPFL.dwg By: V-MataJM



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
PLAN AND PROFILE
STA 2363+50 TO STA 2370+50

DISCIPLINE: TRACK

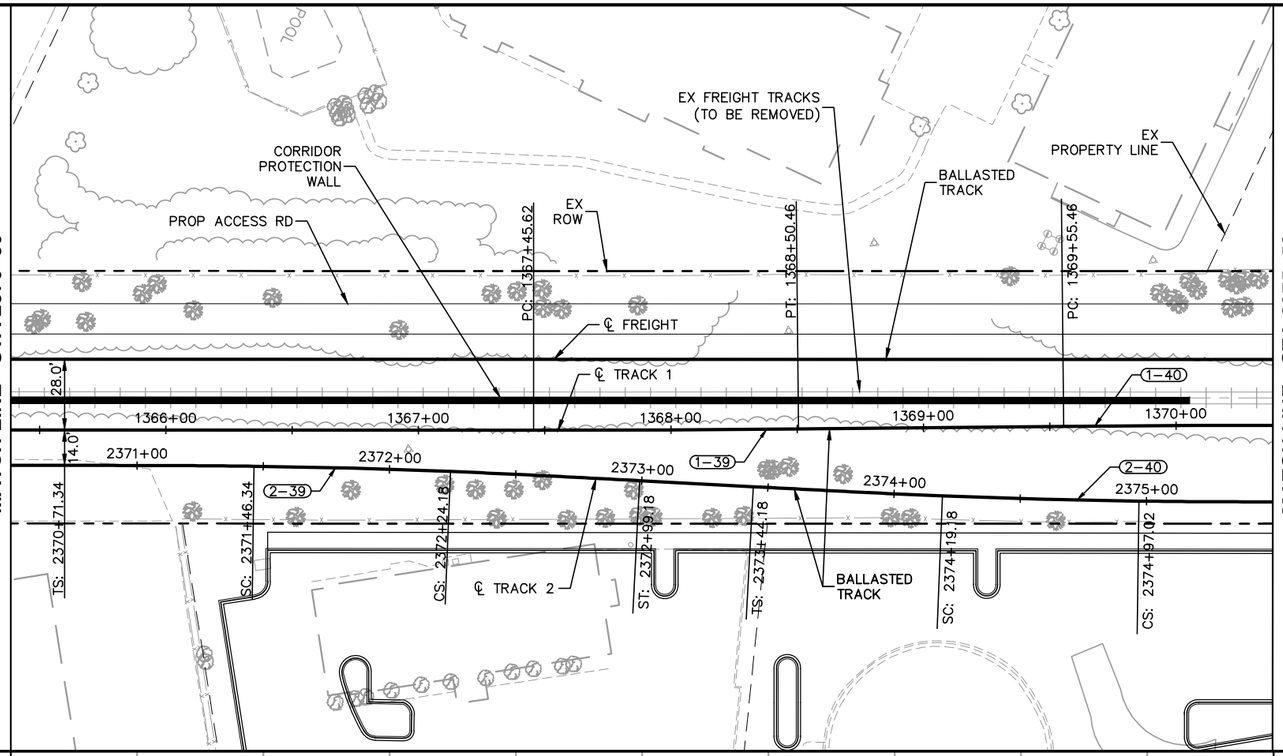
SHEET NAME: C-TRK-PPFL-007

SHEET 41 OF 62

Dec, 03 2015 03:48 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-PPFL.dwg By: V-MataJM

CURVE NO 1–39
R = 11000.00'
Lc = 104.84'
Ls = 0.00'
Ea = 0.00"
Eu = 0.44"
Vd = 35 MPH

CURVE NO 2–39
R = 2900.00'
Lc = 77.84'
Ls = 75.00'
Ea = 1.25"
Eu = 1.52"
Vd = 45 MPH

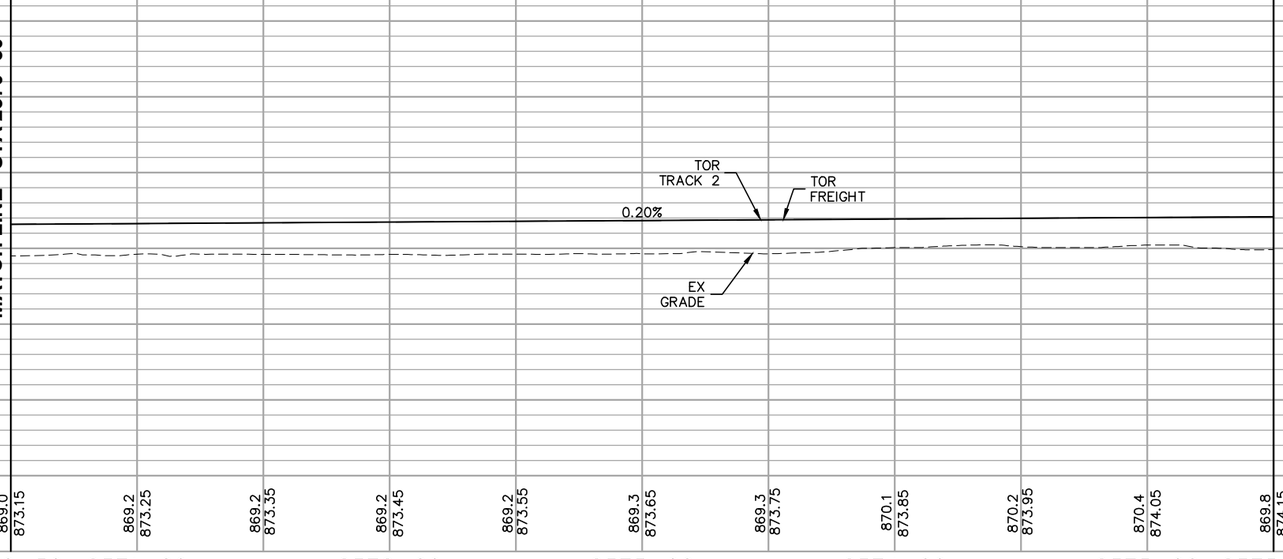


CURVE NO 1–40
R = 11000.00'
Lc = 104.84'
Ls = 0.00'
Ea = 0.00"
Eu = 0.44"
Vd = 35 MPH

CURVE NO 2–40
R = 2900.00'
Lc = 77.84'
Ls = 75.00'
Ea = 1.25"
Eu = 1.52"
Vd = 45 MPH

MATCH LINE - STA 2375+50

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



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

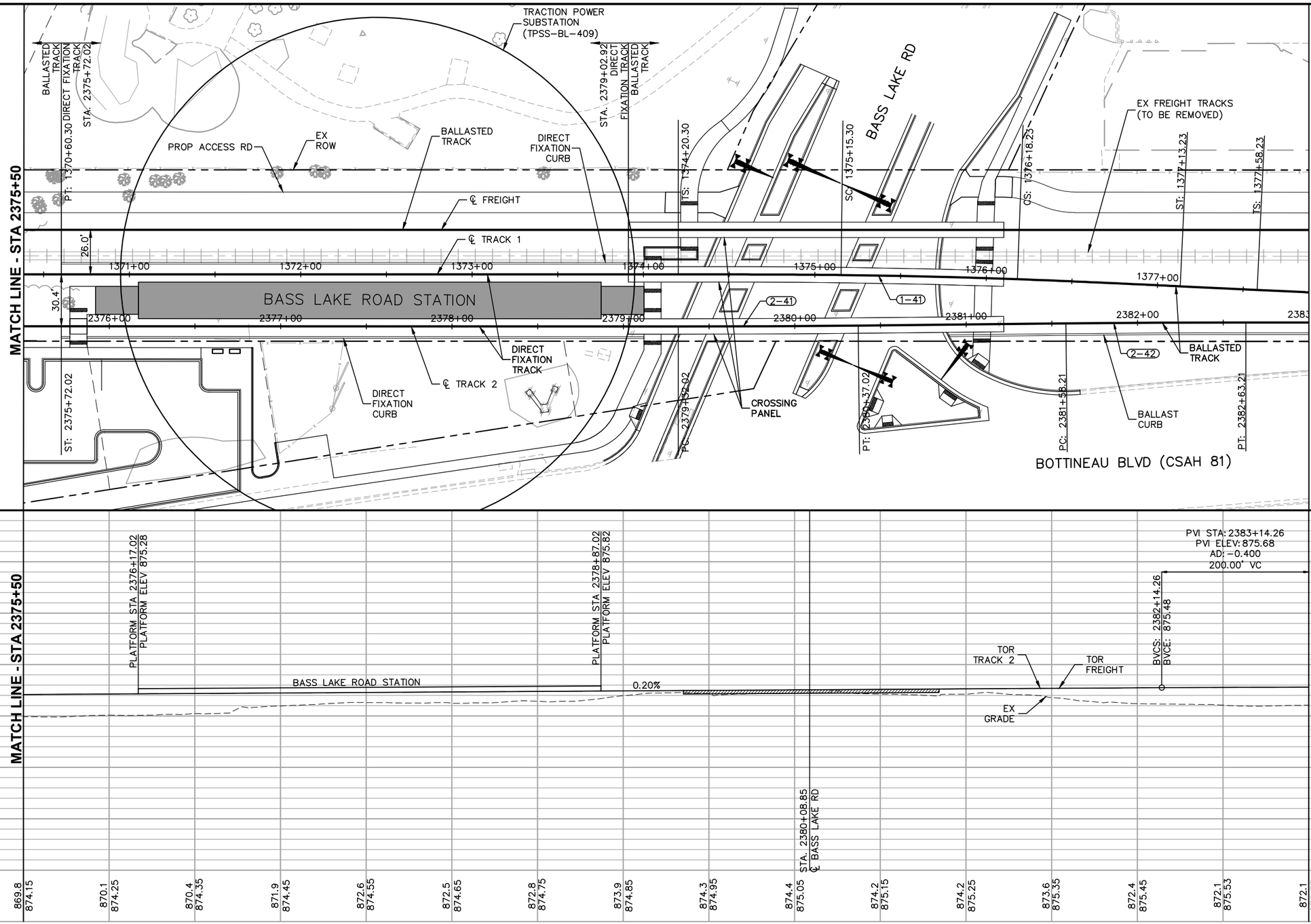
METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
PLAN AND PROFILE
STA 2370+50 TO STA 2375+50

DISCIPLINE: TRACK
SHEET NAME: C-TRK-PPFL-008

SHEET 42 OF 62

Dec, 03 2015 03:50 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MCV PLAN SHEETS\TRACK\C-TRK-PPFL.dwg By: V-MatajM

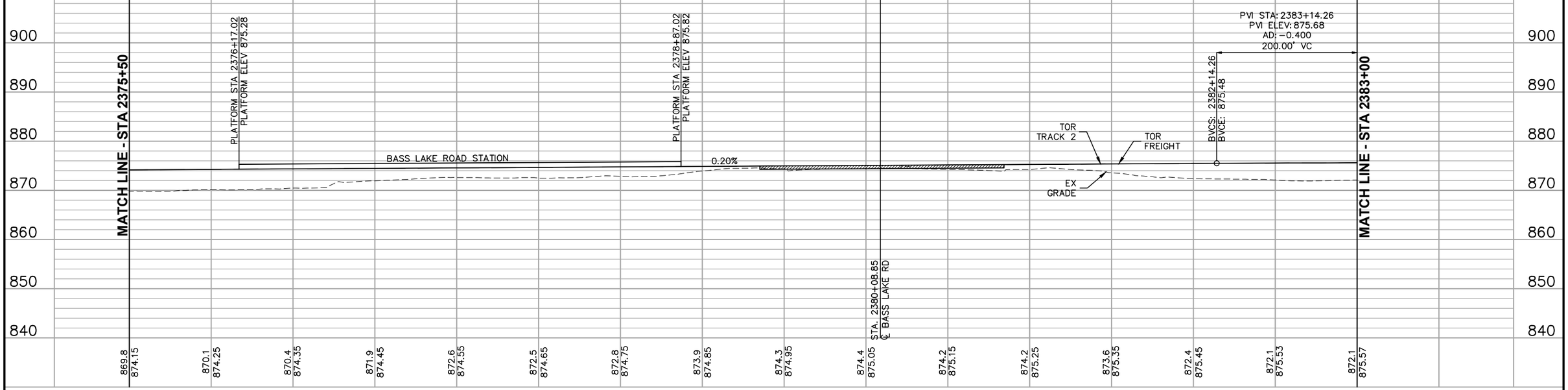


CURVE NO 1-41
R = 4200.00'
Lc = 102.93'
Ls = 95.00'
Ea = 0.00"
Eu = 1.91"
Vd = 45 MPH

CURVE NO 2-41
R = 10000.00'
Lc = 105.00'
Ls = 0.00'
Ea = 0.00"
Eu = 0.49"
Vd = 35 MPH

CURVE NO 2-42
R = 10000.00'
Lc = 105.00'
Ls = 0.00'
Ea = 0.00"
Eu = 0.49"
Vd = 35 MPH

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



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | PARSONS BRINCKERHOFF
MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

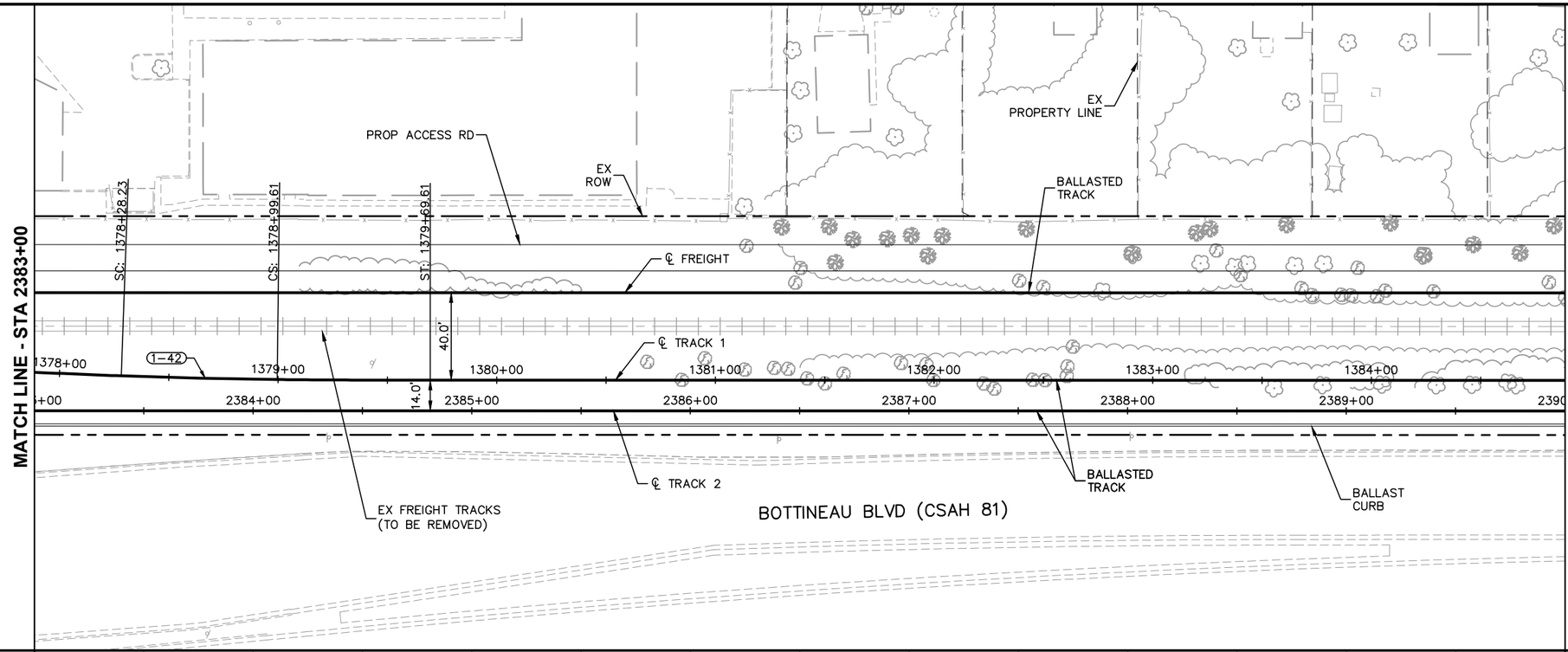
SEGMENT C
RAIL CORRIDOR
PLAN AND PROFILE
STA 2375+50 TO STA 2383+00

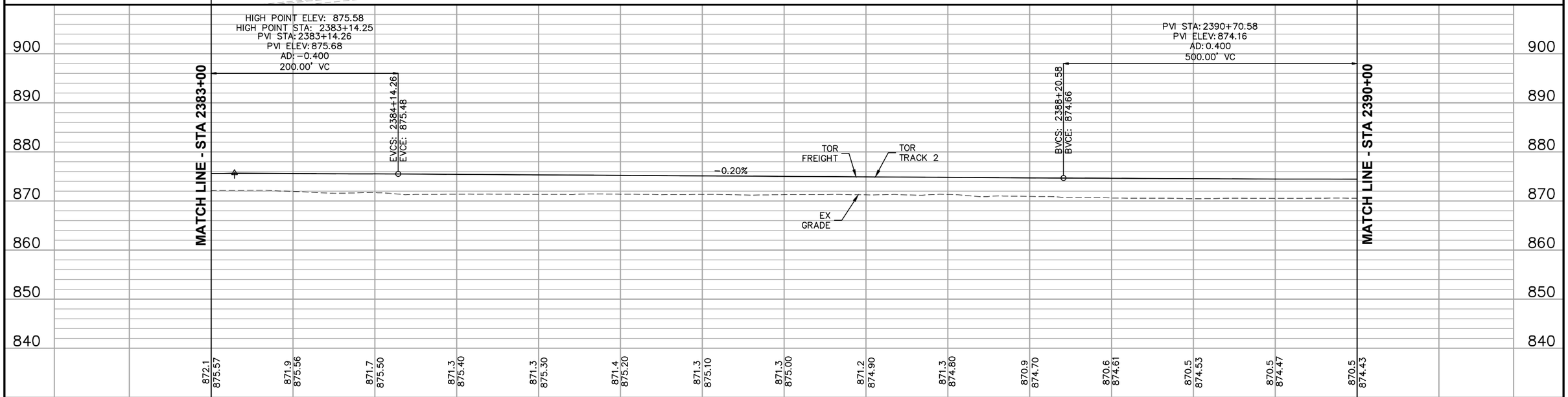
DISCIPLINE: TRACK
SHEET NAME: C-TRK-PPFL-009

SHEET 43 OF 62

Dec, 03 2015 03:52 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-PPFL.dwg By: V-MatoJM

CURVE NO 1-42
R = 3000.00'
Lc = 71.38'
Ls = 70.00'
Ea = 1.25"
Eu = 1.42"
Vd = 45 MPH





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

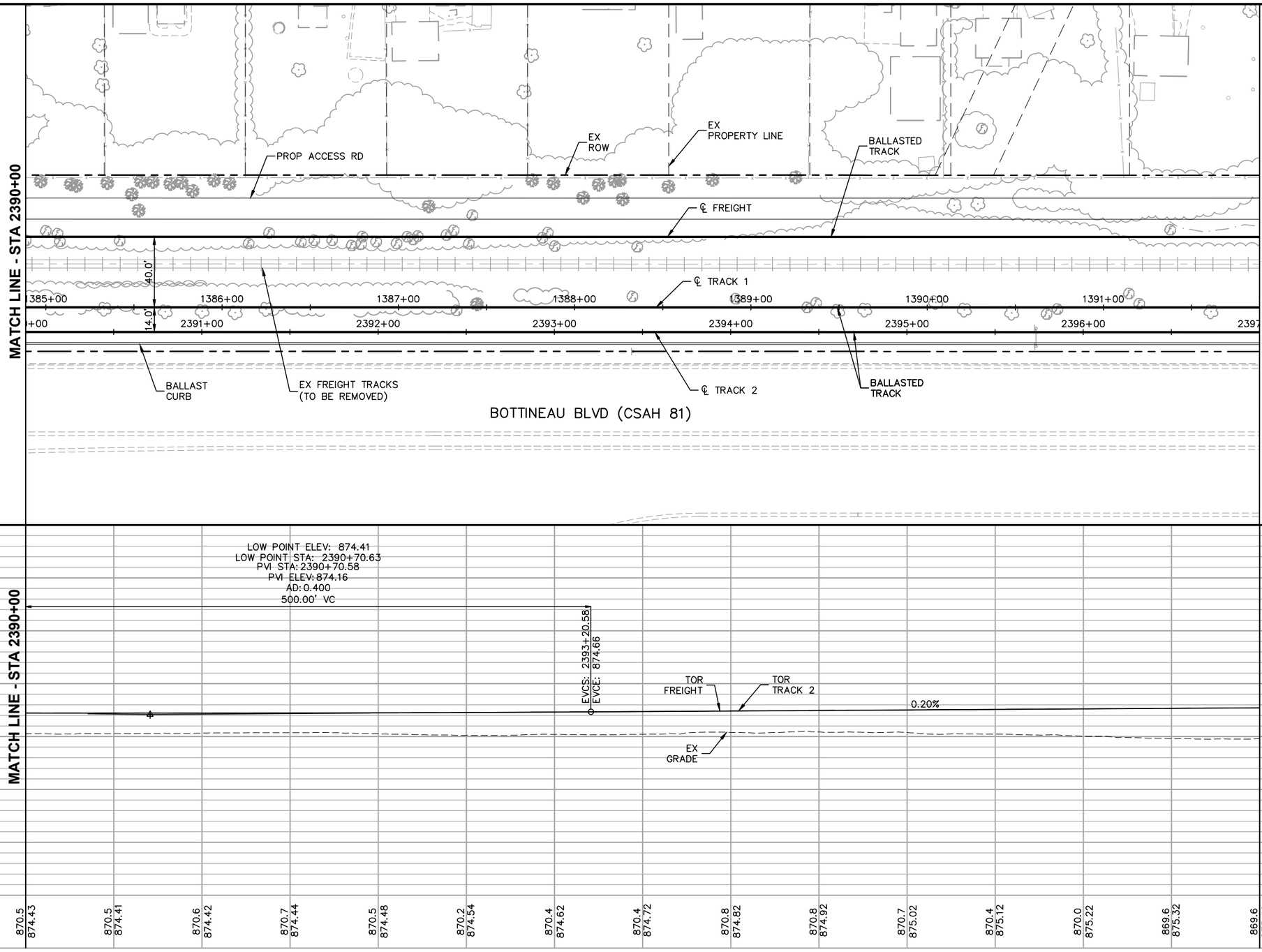
SEGMENT C
RAIL CORRIDOR
PLAN AND PROFILE
STA 2383+00 TO STA 2390+00

DISCIPLINE: TRACK

SHEET NAME: C-TRK-PPFL-010

SHEET 44 OF 62

Dec, 03 2015 03:53 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-PPFL.dwg By: V-MataJM



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

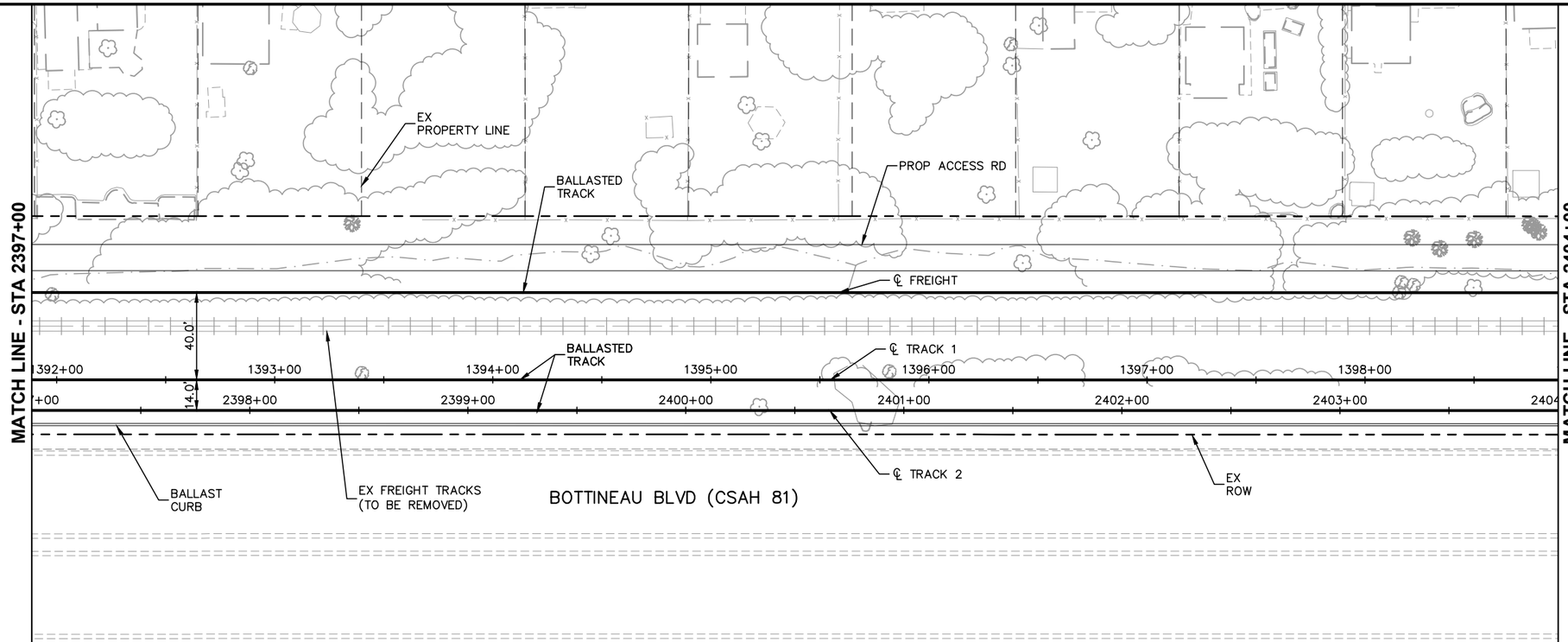
SEGMENT C
RAIL CORRIDOR
PLAN AND PROFILE
STA 2390+00 TO STA 2397+00

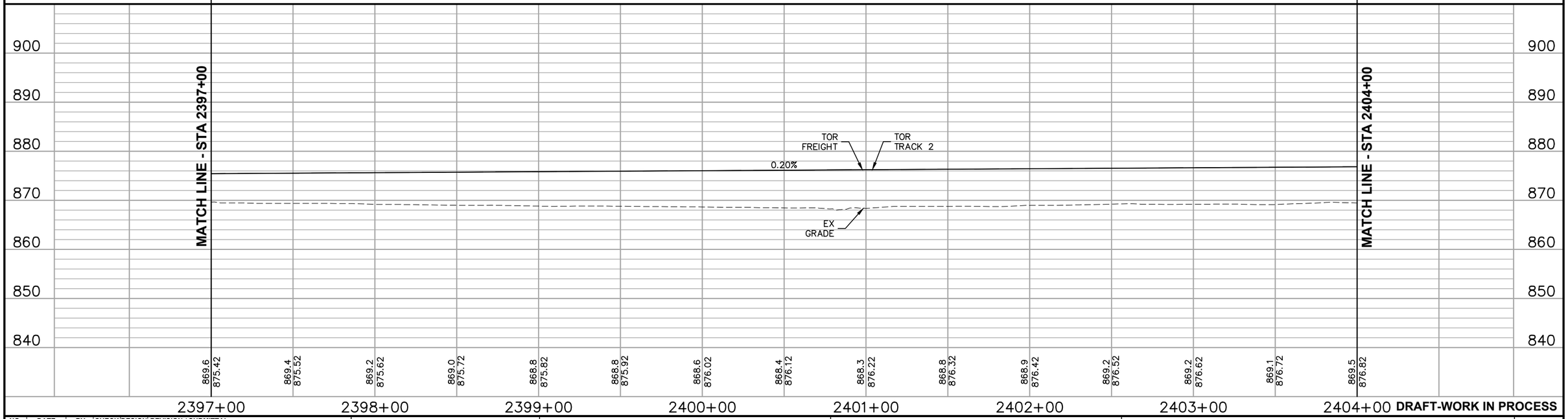
DISCIPLINE: TRACK

SHEET NAME: C-TRK-PPFL-011

SHEET 45 OF 62

Dec, 03 2015 03:54 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-PPFL.dwg By: V-MataJM





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

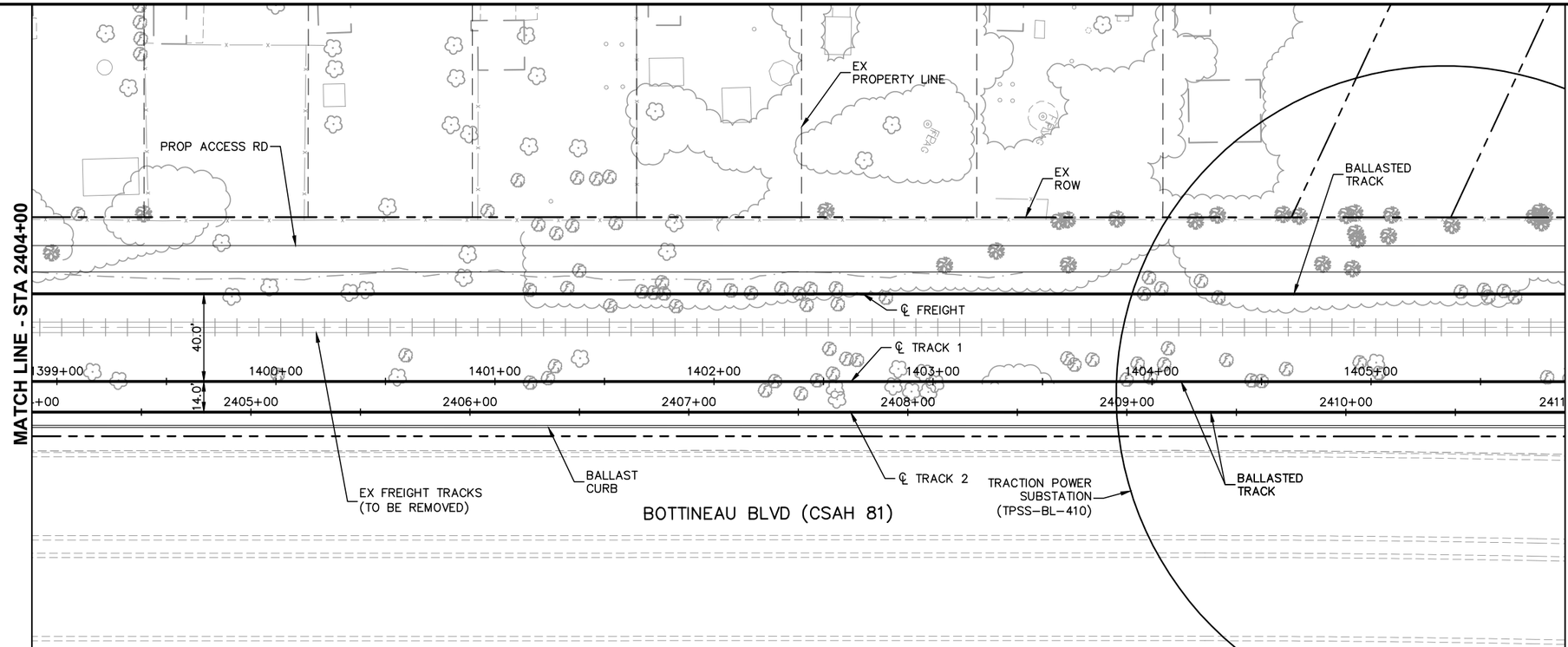
SEGMENT C
RAIL CORRIDOR
PLAN AND PROFILE
STA 2397+00 TO STA 2404+00

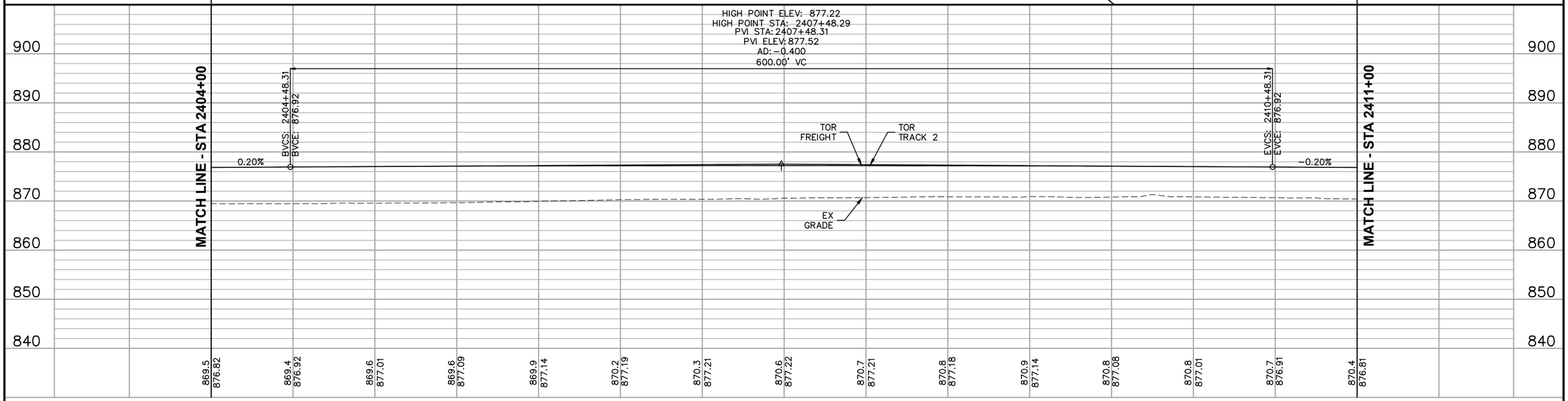
DISCIPLINE: TRACK

SHEET NAME: C-TRK-PPFL-012

SHEET 46 OF 62

Dec, 03 2015 03:55 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-PPFL.dwg By: V-MataJM





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
PLAN AND PROFILE
STA 2404+00 TO STA 2411+00

DISCIPLINE: TRACK

SHEET NAME: C-TRK-PPFL-013

SHEET 47 OF 62

Dec, 03 2015 03:56 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-PPFL.dwg By: V-MatoJM

MATCH LINE - STA 2411+00

MATCH LINE - STA 2418+00

EX PROPERTY LINE

BALLASTED TRACK

℄ FREIGHT

EX ROW

PROP ACCESS RD

40.0'

14.0'

℄ TRACK 1

1406+00 1407+00 1408+00 1409+00 1410+00 1411+00 1412+00

+00 2412+00 2413+00 2414+00 2415+00 2416+00 2417+00 2418

TRACTION POWER SUBSTATION (TPSS-BL-410)

BALLASTED TRACK

BALLAST CURB

℄ TRACK 2

EX FREIGHT TRACKS (TO BE REMOVED)

BOTTINEAU BLVD (CSAH 81)

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

900 890 880 870 860 850 840

MATCH LINE - STA 2411+00

MATCH LINE - STA 2418+00

TOR TRACK 2

TOR FREIGHT

-0.20%

EX GRADE

870.4 876.81 | 870.1 876.71 | 870.3 876.61 | 870.6 876.51 | 870.7 876.41 | 870.5 876.31 | 870.6 876.21 | 871.0 876.11 | 870.8 876.01 | 871.0 875.91 | 871.5 875.81 | 871.5 875.71 | 871.4 875.61 | 871.4 875.51 | 871.8 875.41

2411+00 2412+00 2413+00 2414+00 2415+00 2416+00 2417+00 2418+00

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
RAIL CORRIDOR
PLAN AND PROFILE
STA 2411+00 TO STA 2418+00

DISCIPLINE: TRACK

SHEET NAME: C-TRK-PPFL-014

SHEET 48 OF 62

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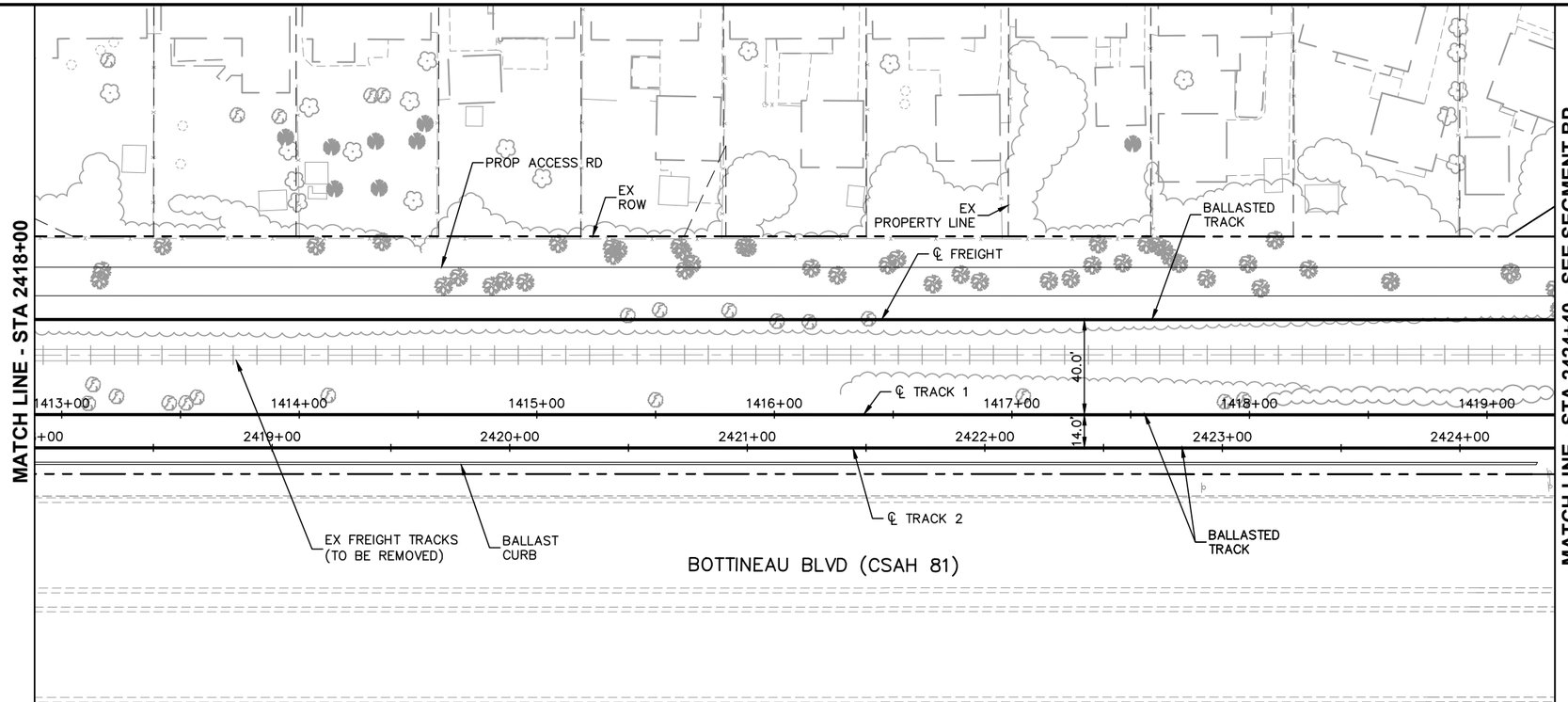
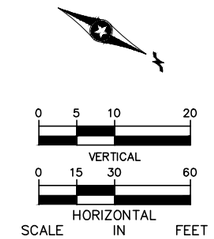
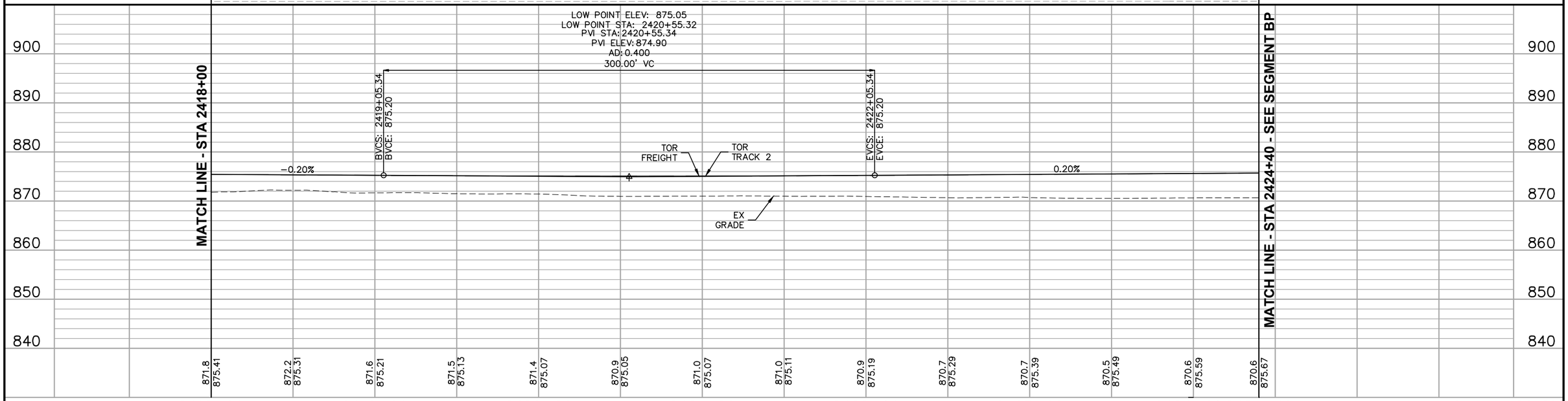






DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

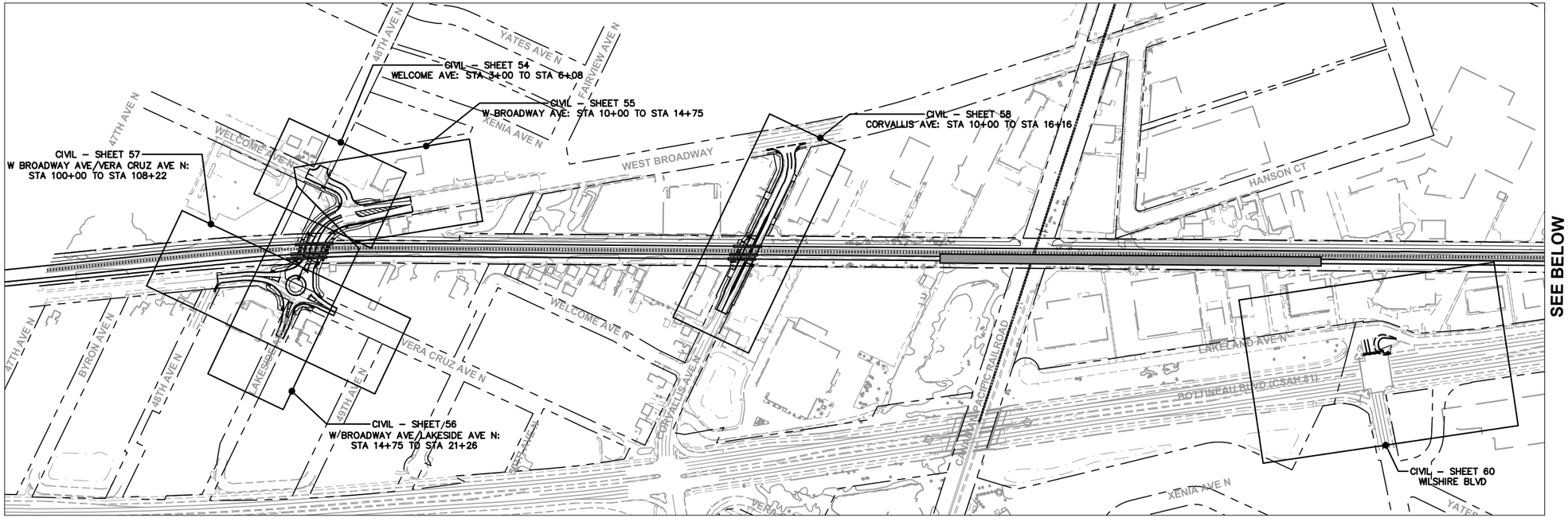
METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

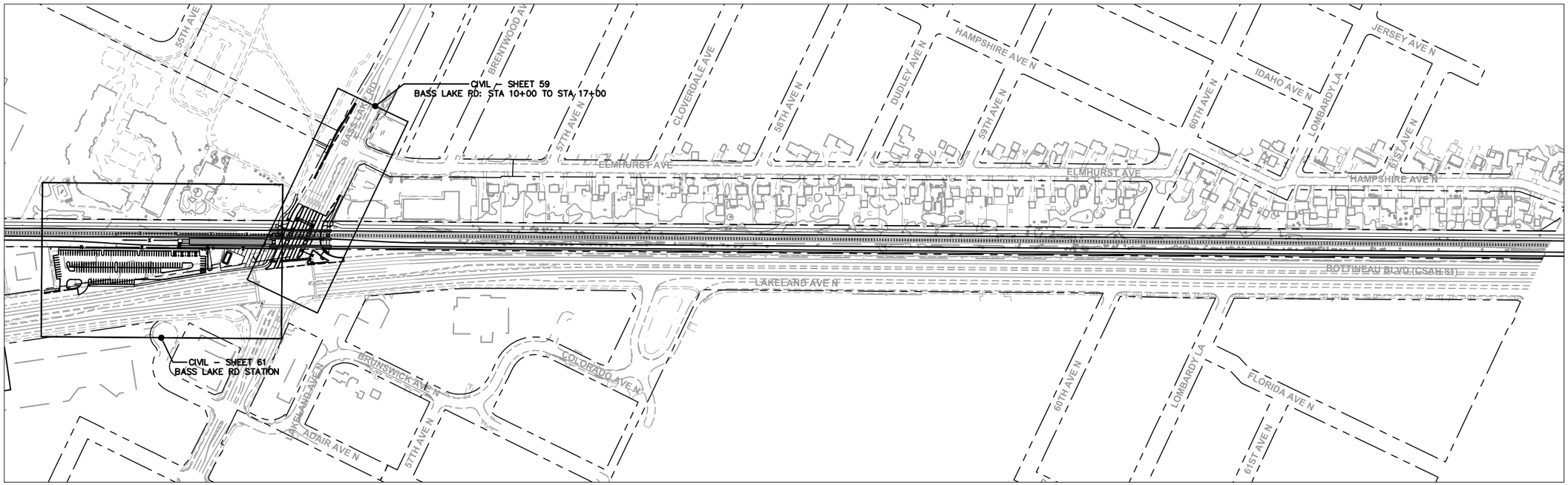
SEGMENT C
RAIL CORRIDOR
PLAN AND PROFILE
STA 2418+00 TO STA 2424+40

DISCIPLINE: TRACK
SHEET NAME: C-TRK-PPFL-015

SHEET 49 OF 62

Dec, 03 2015 03:58 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\TRACK\C-TRK-PPFL.dwg By: V-MatauM





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HORIZONTAL SCALE IN FEET

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
SRF Consulting Group, Inc. | Engineers Planners Designers | ISTHMUS engineering, inc.

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

SEGMENT C
CIVIL
SHEET LAYOUT INDEX

SHEET 50 OF 62

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

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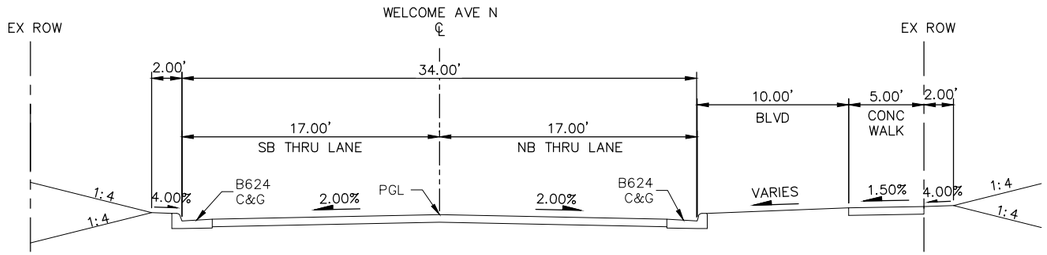
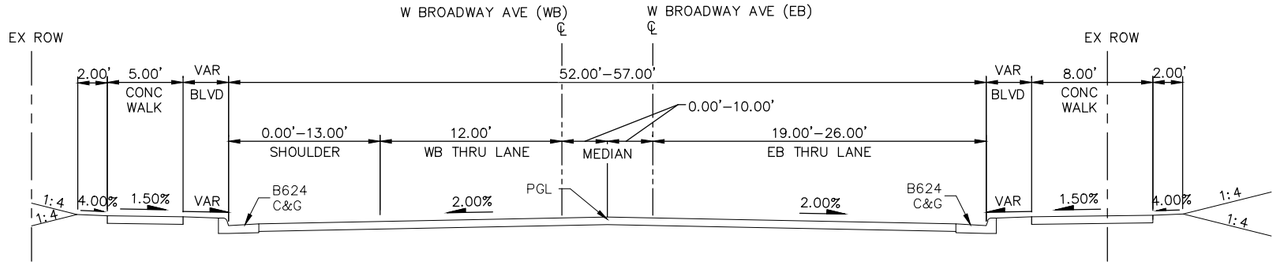


TYPICAL SECTION - WELCOME AVE N
STA 4+00 TO STA 5+90

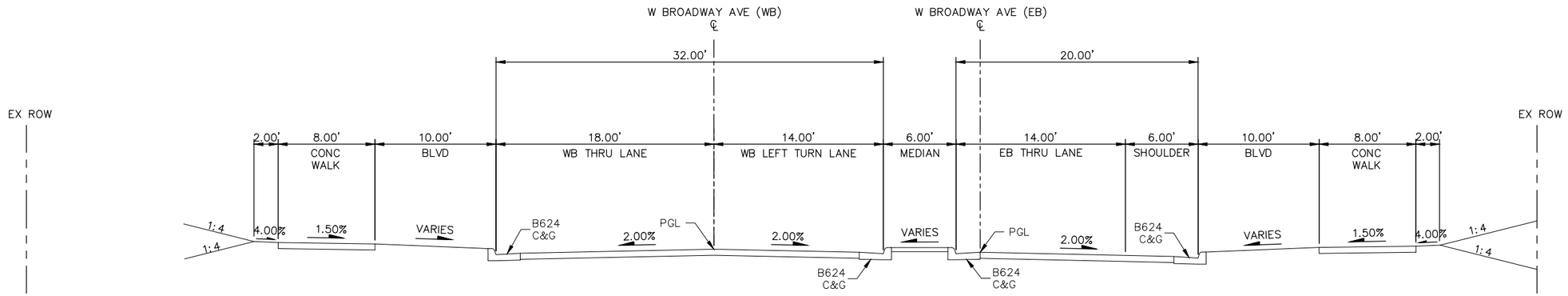
NOTE:
SLOPES LISTED ARE V:H

W BROADWAY AVE (EB) FOLLOWS ALIGNMENT ROUNDABOUT EB

W BROADWAY AVE (WB) FOLLOWS ALIGNMENT ROUNDABOUT WB



TYPICAL SECTION - W BROADWAY AVE
STA 12+00 TO STA 14+37



TYPICAL SECTION - W BROADWAY AVE
STA 14+37 TO STA 14+88

0 2.5 5 10
SCALE IN FEET

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT

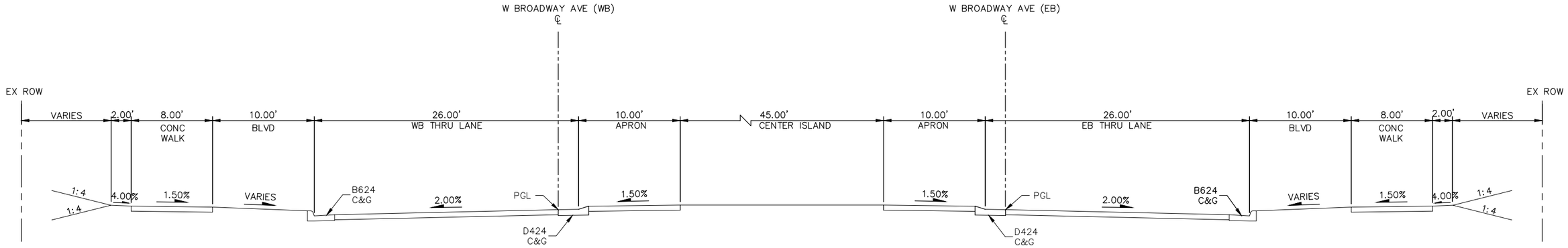
METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

SEGMENT C
CIVIL
TYPICAL SECTIONS

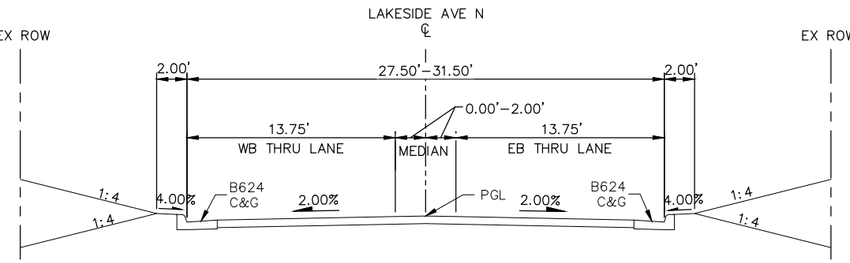
DISCIPLINE: CIVIL
SHEET NAME: C-CIV-TYP-001

SHEET 51 OF 62

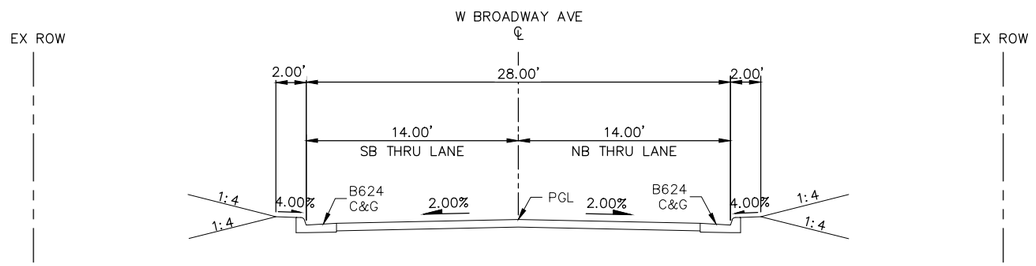
Dec, 07 2015 01:55 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\CIVIL\C-CIV-TYP.dwg By: V-DordalJD



TYPICAL SECTION - ROUNDABOUT ISLAND



TYPICAL SECTION - LAKESIDE AVE N
STA 18+56 TO STA 19+26



TYPICAL SECTION - W BROADWAY AVE
STA 102+00 TO STA 103+55

NOTE:
SLOPES LISTED ARE V:H

ROUNDABOUT ISLAND FOLLOWS INSIDE THE ROUNDABOUT CIRCLE

LAKESIDE AVE N FOLLOWS ALIGNMENT ROUNDABOUT WB

W BROADWAY AVE FOLLOWS ALIGNMENT ROUNDABOUT NB

0 2.5 5 10
SCALE IN FEET

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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SRF Consulting Group, Inc. ENGINEERS PLANNERS DESIGNERS
ISTHMUS engineering, inc.
MUNICIPAL CONSENT

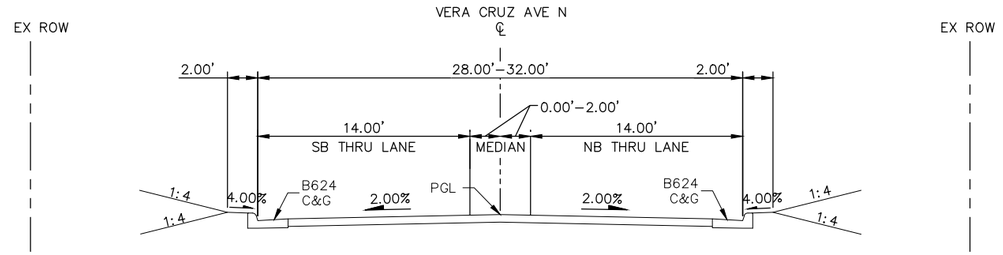
METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

SEGMENT C
CIVIL
TYPICAL SECTIONS

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

SHEET 52 OF 62

Dec, 07 2015 01:55 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\CIVIL\C-CIV-TYP.dwg By: V-DordalJD

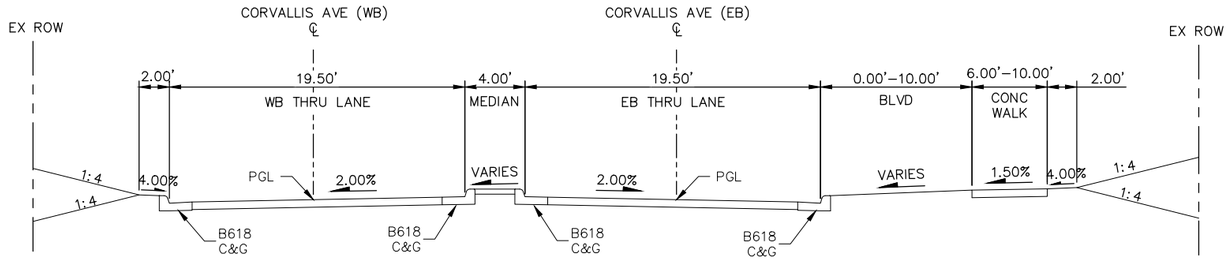


TYPICAL SECTION - VERA CRUZ AVE N
STA 105+73 TO STA 106+22

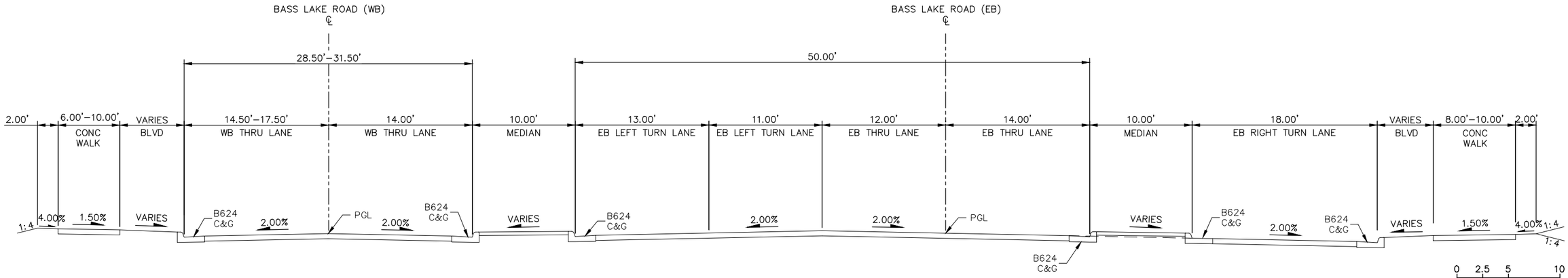
NOTE:
SLOPES LISTED ARE V:H

VERA CRUZ AVE N FOLLOWS ALIGNMENT ROUNDABOUT NB

EXISTING RIGHT–OF–WAY AT BASS LAKE RD IS LOCATED OUTSIDE OF THE EXTENTS OF THE TYPICAL SECTION



TYPICAL SECTION - CORVALLIS AVE
STA 12+85 TO STA 15+18



TYPICAL SECTION - BASS LAKE ROAD
STA 14+18 TO STA 16+33

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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ISTHMUS engineering, inc.
MUNICIPAL CONSENT

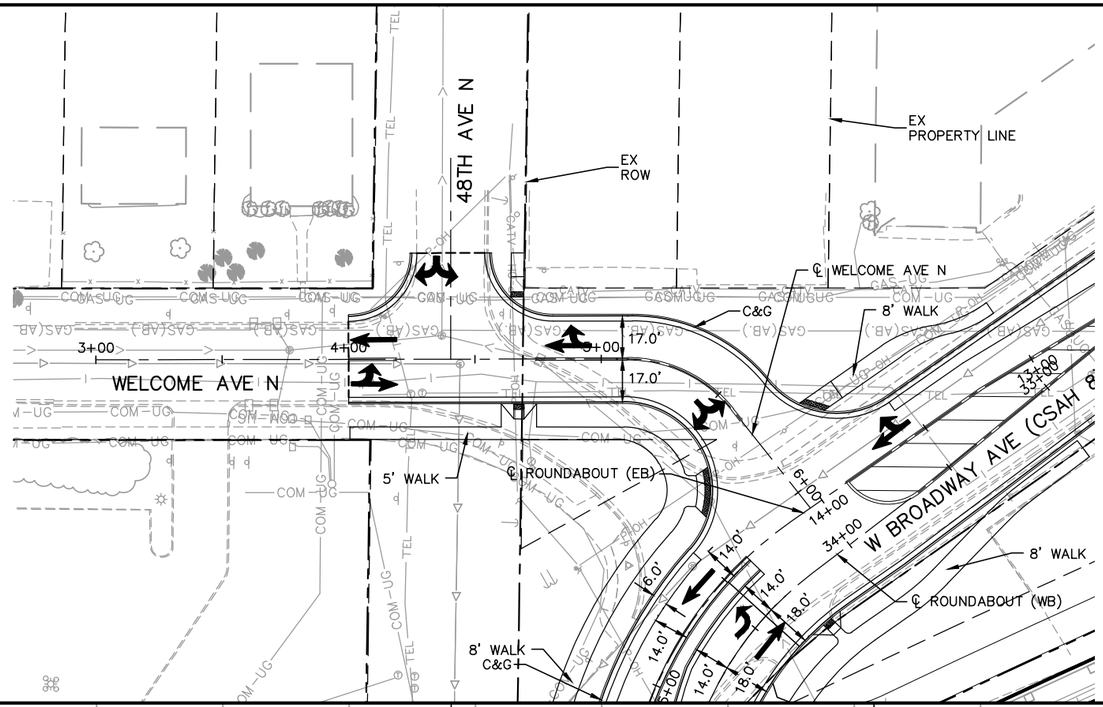
METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

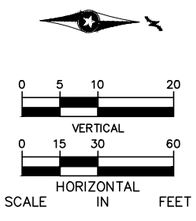
SEGMENT C
CIVIL
TYPICAL SECTIONS

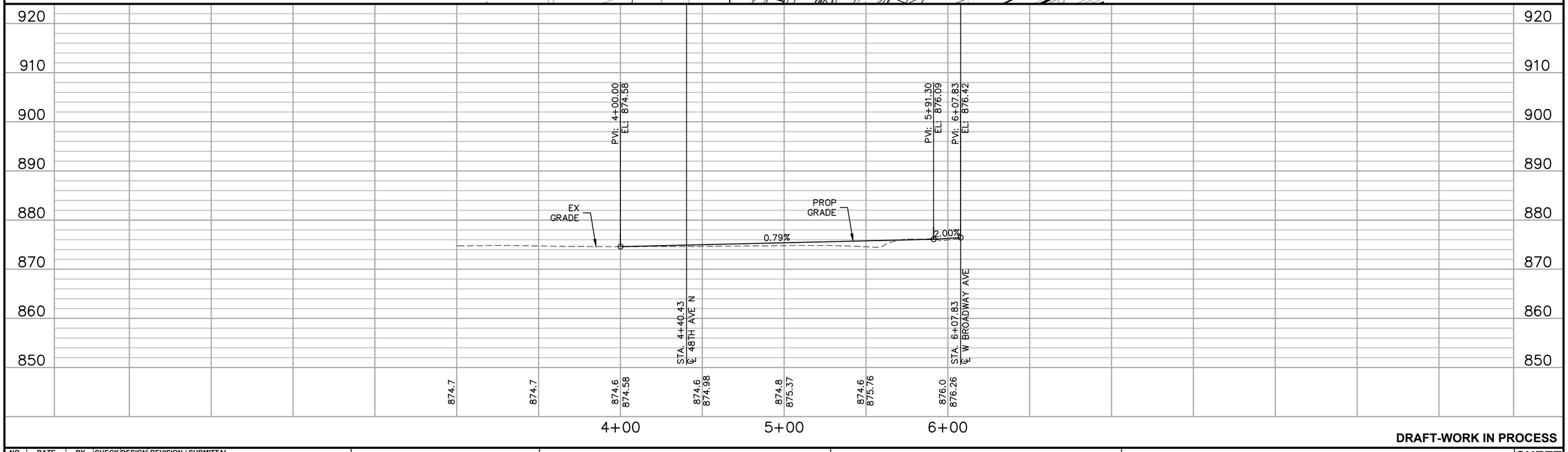
DISCIPLINE: CIVIL
SHEET NAME: C-CIV-TYP-003

SHEET 53 OF 62

Dec, 03 2015 05:30 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\CIVIL\C-CIV-TYP.dwg By: V-DordalJD







DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

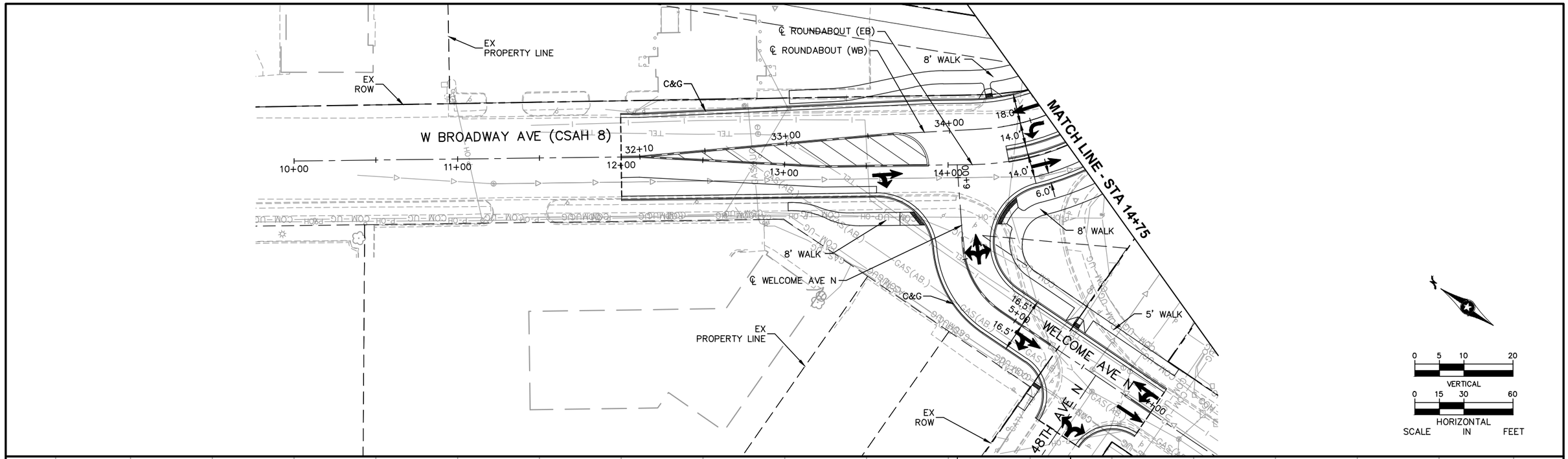
SEGMENT C
WELCOME AVE N
PLAN AND PROFILE
STA 3+00 TO STA 6+08

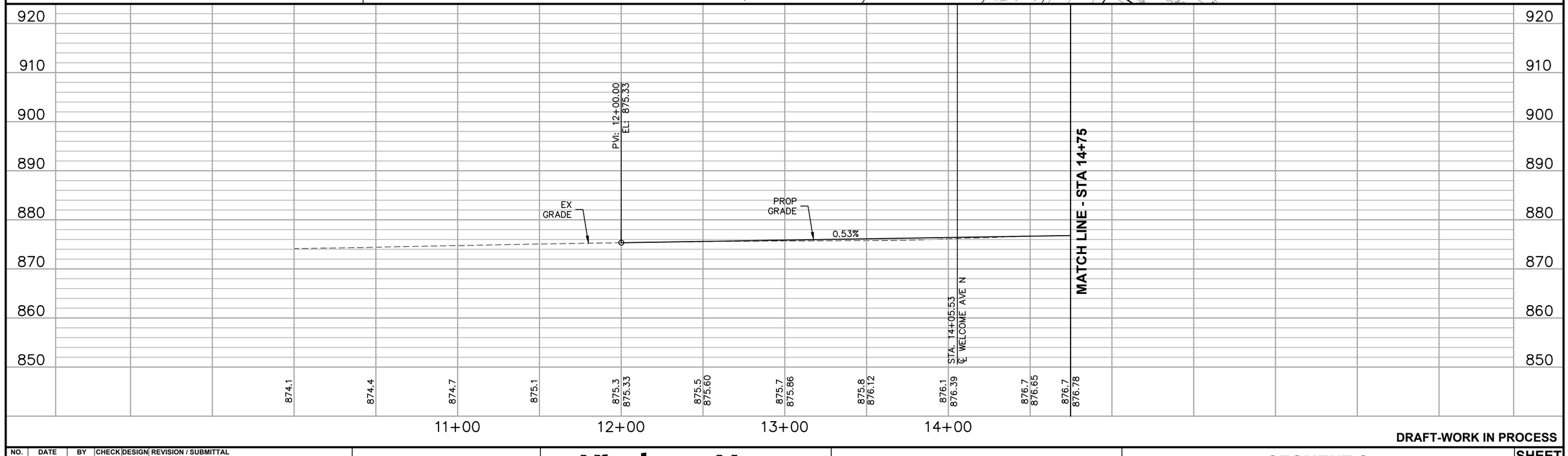
DISCIPLINE: CIVIL

SHEET NAME: C-CIV-PPFL-001

SHEET 54 OF 62

Dec, 07 2015 02:04 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\CIVIL\C-CIV-PPFL.dwg By: V-DordalJD





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

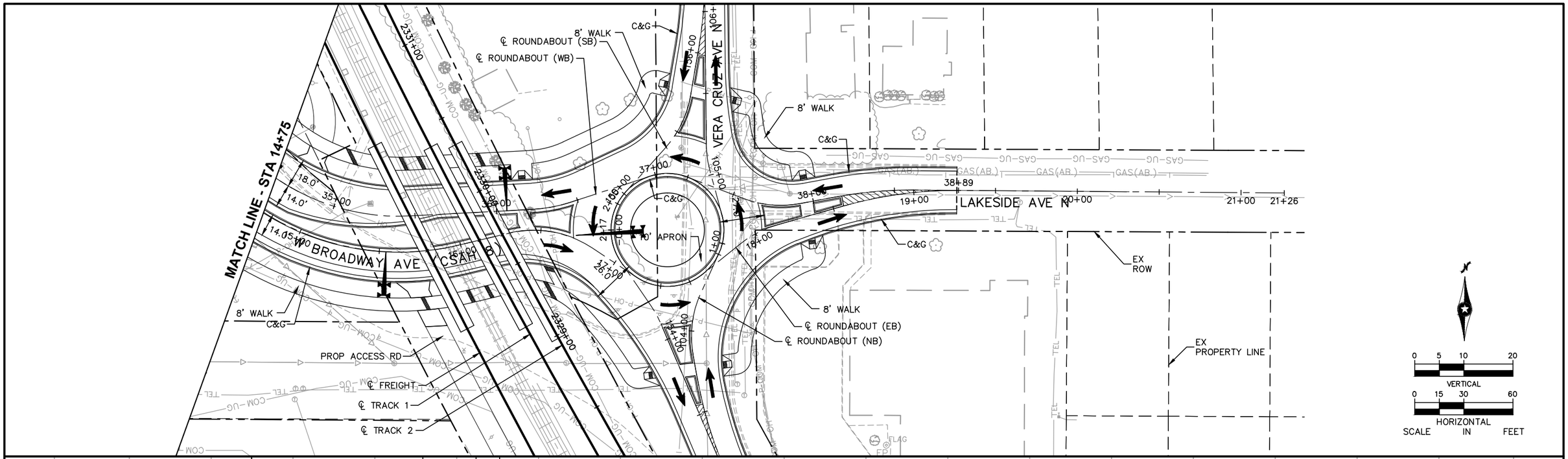
SEGMENT C
W BROADWAY AVE (CSAH 8)
PLAN AND PROFILE
STA 10+00 TO STA 14+75

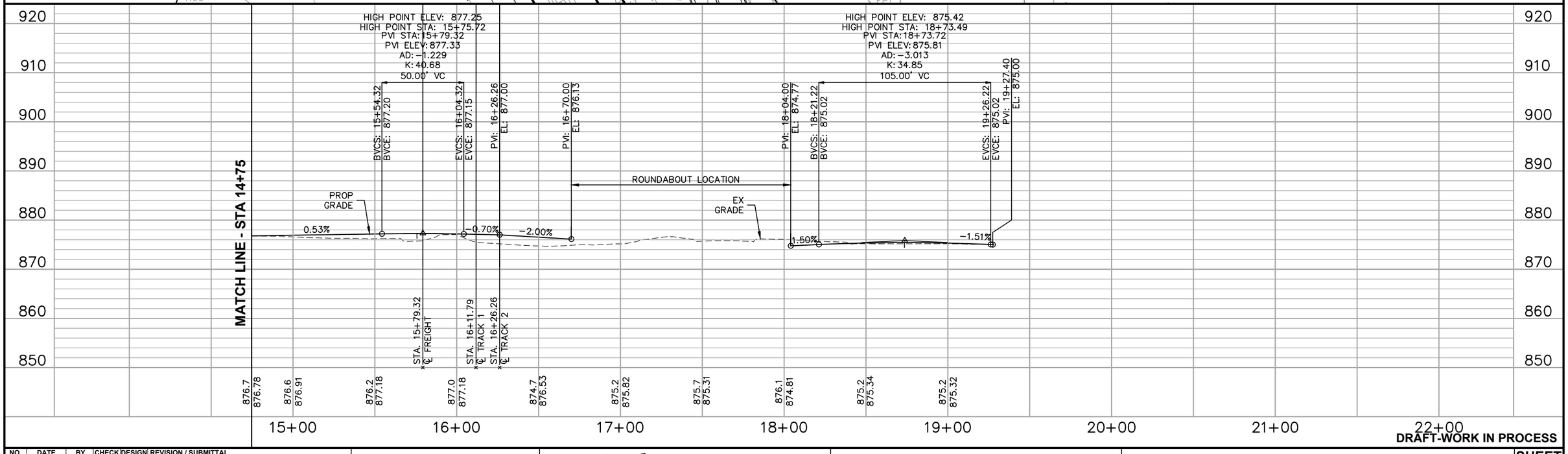
DISCIPLINE: CIVIL

SHEET NAME: C-CIV-PPFL-002

SHEET 55 OF 62

Dec, 04 2015 10:40 am H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MCV\PLAN SHEETS\CIVIL\C-CIV-PPFL.dwg By: V-DordalJD





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

SRF Consulting Group, Inc. | Engineers Planners Designers | ISTHMUS engineering, inc.

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

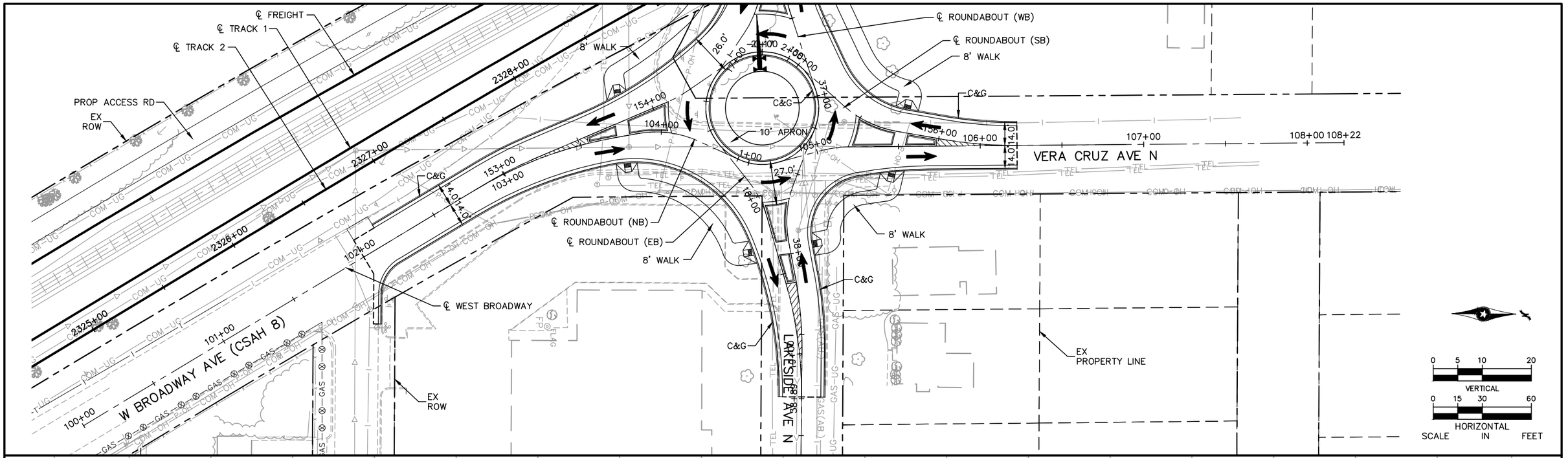
SEGMENT C
W BROADWAY AVE / LAKESIDE AVE N
PLAN AND PROFILE
STA 14+75 TO STA 21+26

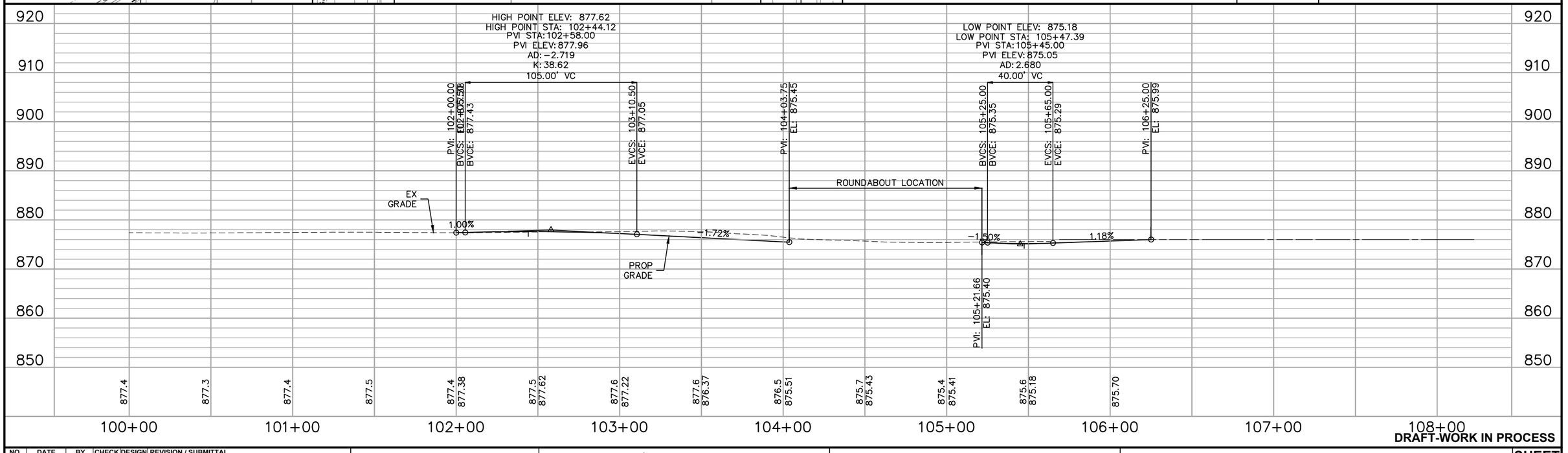
DISCIPLINE: CIVIL

SHEET NAME: C-CIV-PPFL-003

SHEET 56 OF 62

Dec, 07 2015 02:06 pm H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\CIVIL\C-CIV-PPFL.dwg By: V-DordalJD





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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

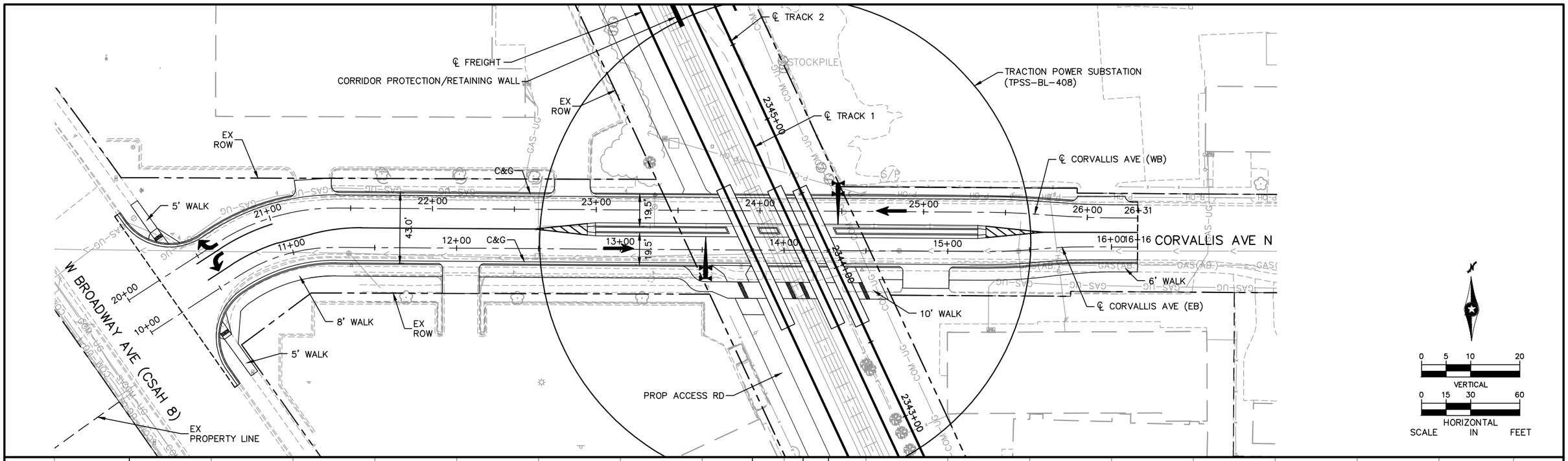
METROPOLITAN COUNCIL

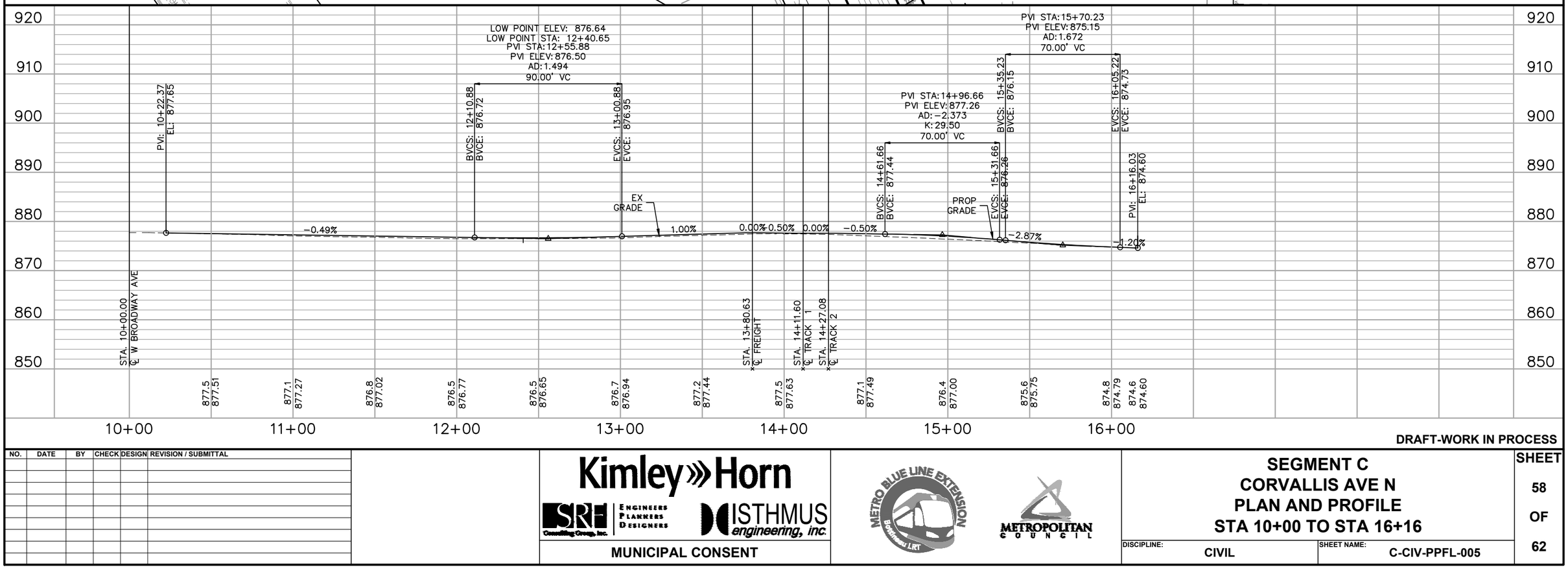
SEGMENT C
W BROADWAY AVE / VERA CRUZ AVE N
PLAN AND PROFILE
STA 100+00 TO STA 108+22

DISCIPLINE: CIVIL | SHEET NAME: C-CIV-PPFL-004

SHEET 57 OF 62

Dec, 04 2015 10:43 am H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MCV\PLAN SHEETS\CIVIL\C-CIV-PPFL.dwg By: V-DordalJD





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

SRF Consulting Group, Inc. | Engineers Planners Designers | ISTHMUS engineering, inc.

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

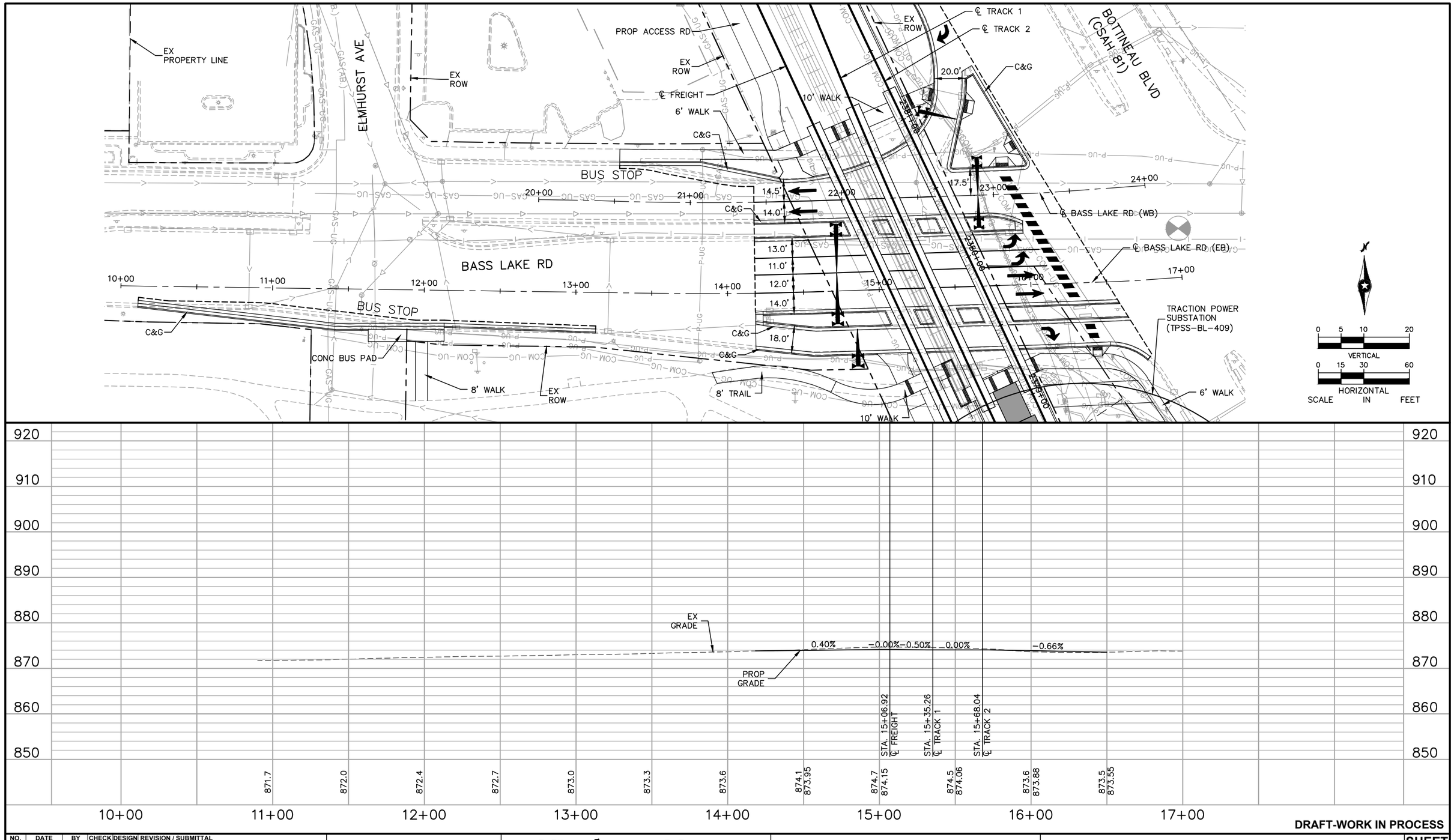
SEGMENT C
CORVALLIS AVE N
PLAN AND PROFILE
STA 10+00 TO STA 16+16

DISCIPLINE: CIVIL

SHEET NAME: C-CIV-PPFL-005

SHEET 58 OF 62

Dec, 04 2015 10:45 am H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MCVPLAN SHEETS\CIVIL\C-CIV-PPFL.dwg By: V-DordalJD



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
BASS LAKE RD
PLAN AND PROFILE
STA 10+00 TO STA 17+00

DISCIPLINE: CIVIL

SHEET NAME: C-CIV-PPFL-006

SHEET 59 OF 62

Dec, 04 2015 10:46 am H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\CIVIL\C-CIV-PPFL.dwg By: V-DordalJD

EX PROPERTY LINE

EX ROW

℄ TRACK 2

2369.

C&G

16.5'

11.0'

6' WALK

LAKELAND AVE N

BOTTINEAU BLVD (CSAH 81)

WILSHIRE BLVD

0 15 30 60

HORIZONTAL SCALE IN FEET

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C
WILSHIRE BLVD
SITE PLAN

SHEET 60 OF 62

DISCIPLINE: CIVIL

SHEET NAME: C-CIV-PLN-001

Dec, 04 2015 10:21 am H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\CIVIL\C-CIV-PLN.dwg By: V-DorddiJD

NOTES:
170 REQUIRED PARKING STALLS
170 PROVIDED PARKING STALLS

EX PROP LINE
POOL
PROP ACCESS RD
EX ROW
℄ FREIGHT
℄ TRACK 1
℄ TRACK 2
2371+00
2372+00
2373+00
2374+00
2375+00
2376+00
2377+00
2378+00
2379+00
BASS LAKE ROAD STATION
PARK AND RIDE
C&G
24.0'
7' WALK
30.0'
24.0'
25.0'
25.0'
LAKELAND AVE N
BOTTINEAU BLVD (CSAH 81)
6' WALK
10' WALK
CELL TOWER ACCESS
BASS LAKE RD
0 15 30 60
HORIZONTAL SCALE IN FEET

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
SRF Consulting Group, Inc. | Engineers Planners Designers
ISTHMUS engineering, inc.
MUNICIPAL CONSENT

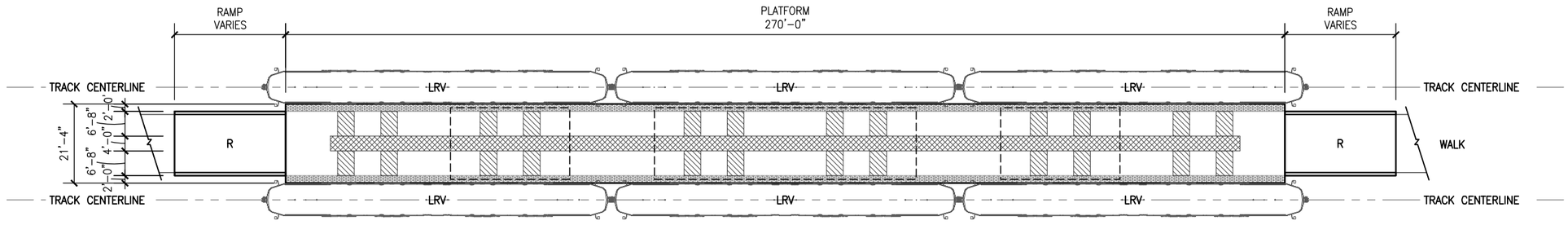
METRO BLUE LINE EXTENSION Bottineau LRT
METROPOLITAN COUNCIL

SEGMENT C
BASS LAKE ROAD STATION
SITE PLAN

DISCIPLINE: CIVIL
SHEET NAME: C-CIV-PLN-002

SHEET 61 OF 62

Dec, 08 2015 10:27 am H:\BPO\550_Design_Consultant\CAD\003-SEGMENT-C\MC\PLAN SHEETS\CIVIL\C-CIV-PLN.dwg By: V-DordalJD



STATION PLATFORM ELEMENTS:

R APPROACH RAMPS
- LESS THAN 5% SLOPE
- HAND RAIL 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

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

BOARDING EDGE
- ADA DETECTABLE WARNING AT EDGE OF PLATFORM

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
miller dunwiddie
ARCHITECTURE

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION Bottineau LRT

METROPOLITAN COUNCIL

SEGMENT C

TYPICAL CENTER PLATFORM PLAN

DISCIPLINE: ARCHITECTURE

SHEET NAME: C-ARC-STA-PLN-001

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