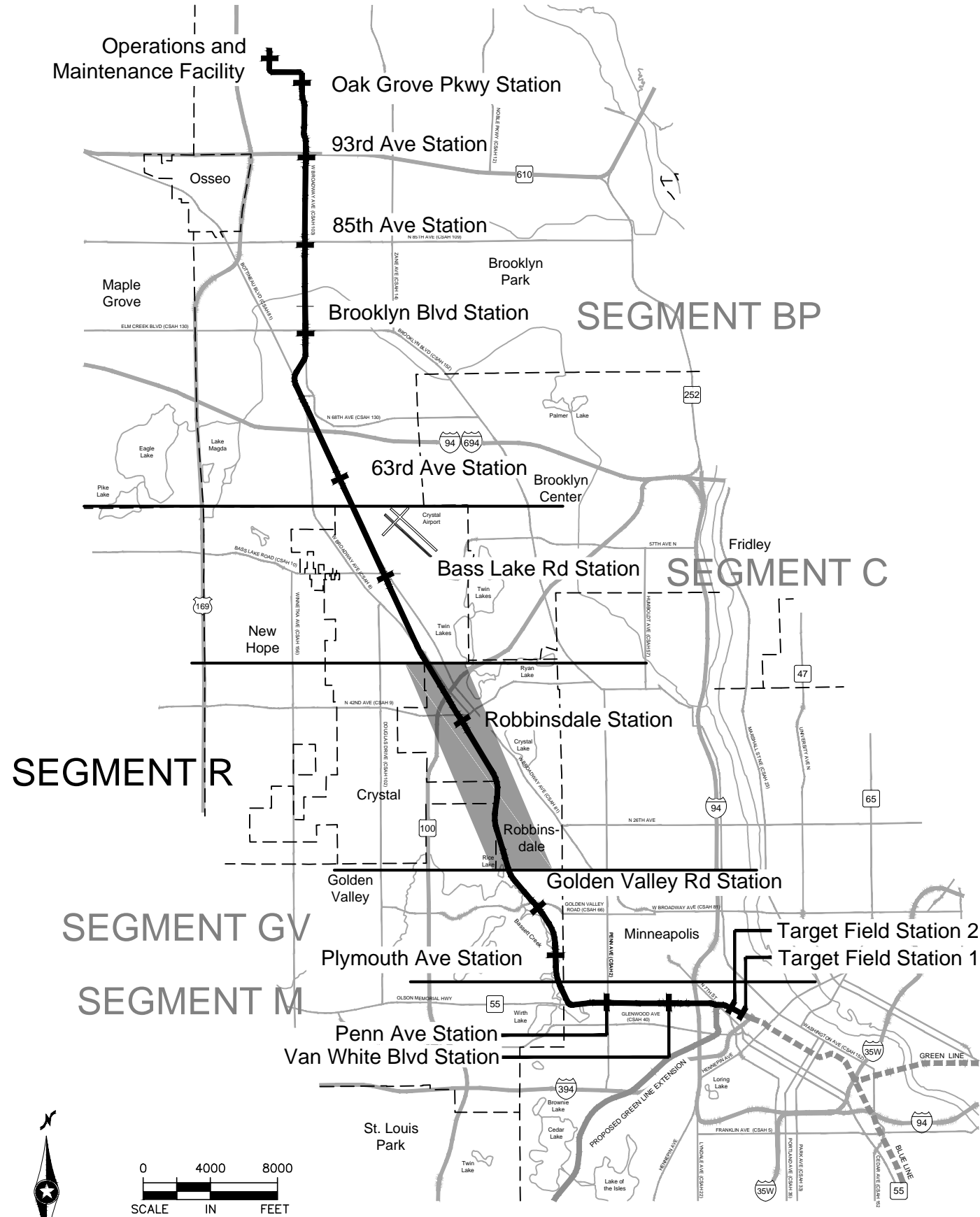


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SEGMENT R

EXISTING CONDITIONS/TRACK/CIVIL

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





































MN STATE STATUTE 473.3994

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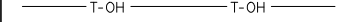








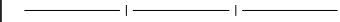








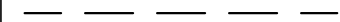
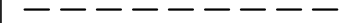
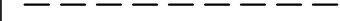








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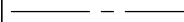











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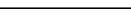
TOPOGRAPHIC SYMBOLS			
	CATCH BASIN		COMMUNICATION STRUCTURE
	STORM MANHOLE		TELEPHONE STRUCTURE
	FLARED END SECTION		TELEPHONE MANHOLE
	BOX CULVERT INVERT		FIBER OPTIC MANHOLE
	SANITARY MANHOLE		UTILITY POLE
	SANITARY CLEANOUT		UTILITY POLE W/LIGHT
	WATER MANHOLE		GUY WIRE
	WATER GATE VALVE MANHOLE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







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

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

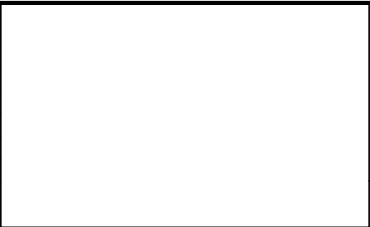
CIVIL SYMBOLS	
	ACCESSIBLE PEDESTRIAN CURB RAMP (DESIGN VARIES)
	PROPOSED SIGNALIZED INTERSECTION
	PROPOSED DIRECTIONAL LANE USE
	HANDICAP PARKING STALL
	BIKE LANE
	TACTILE WARNING STRIP

TRACK SYMBOLS	
	AUTOMATIC GATE
	RAIL TURNOUT
	RAIL CROSSOVER (DOUBLE)
	RAIL CROSSOVER (SINGLE)
	POINT OF SWITCH (PS)
	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	BEGINNING 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
CL	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
HCRRRA	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

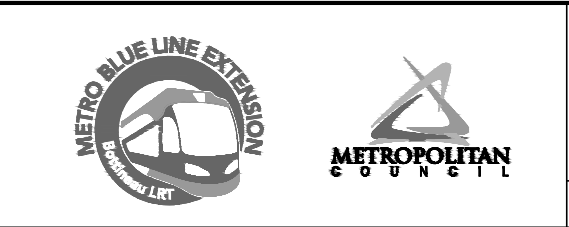
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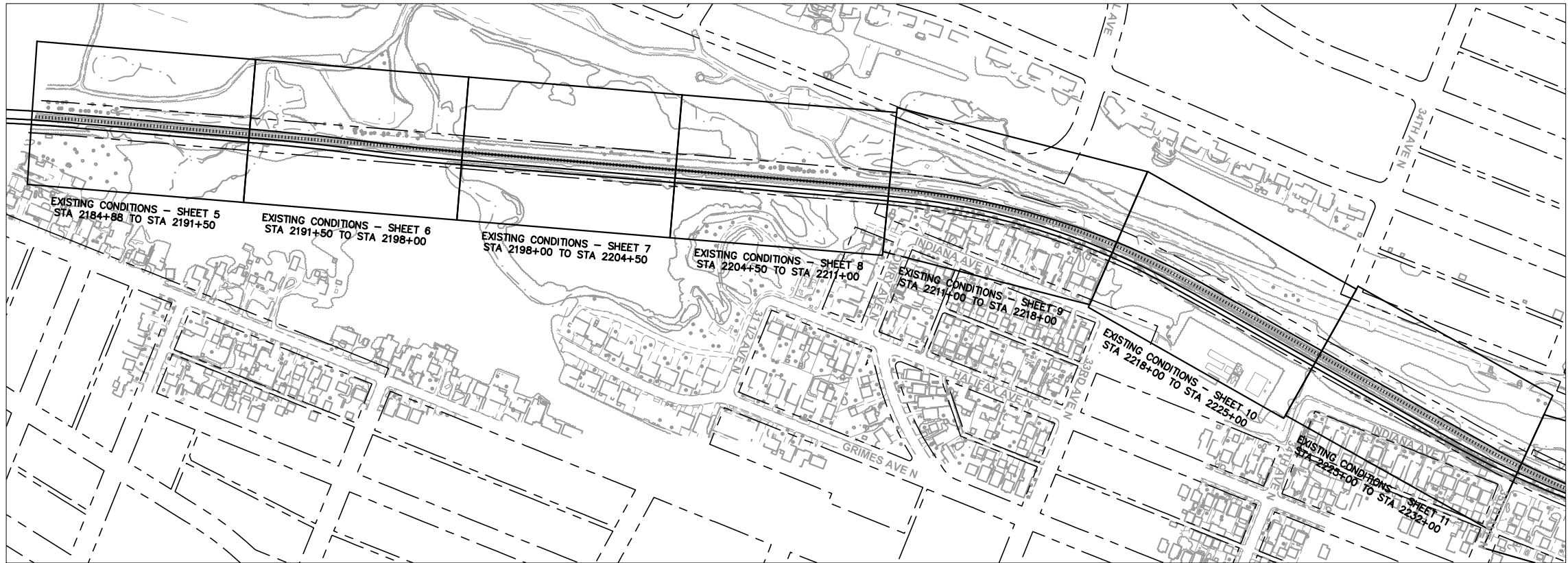


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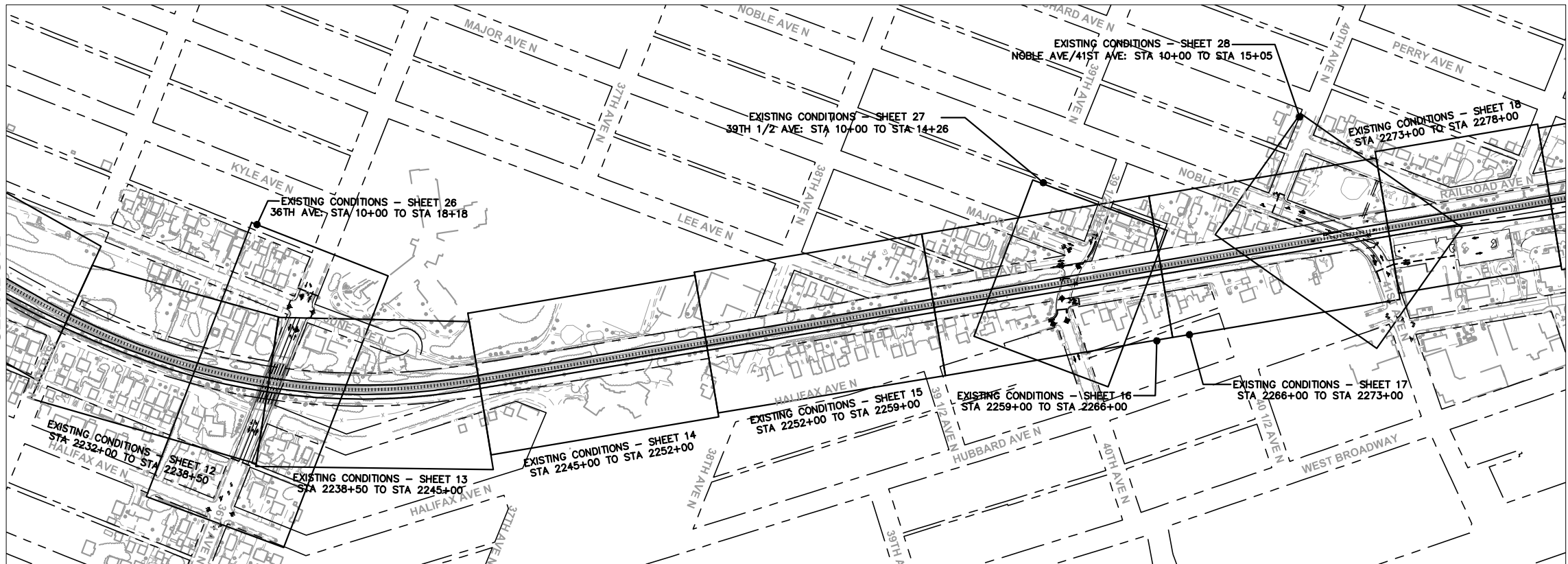
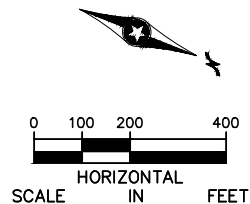


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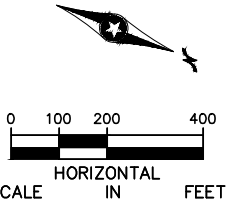
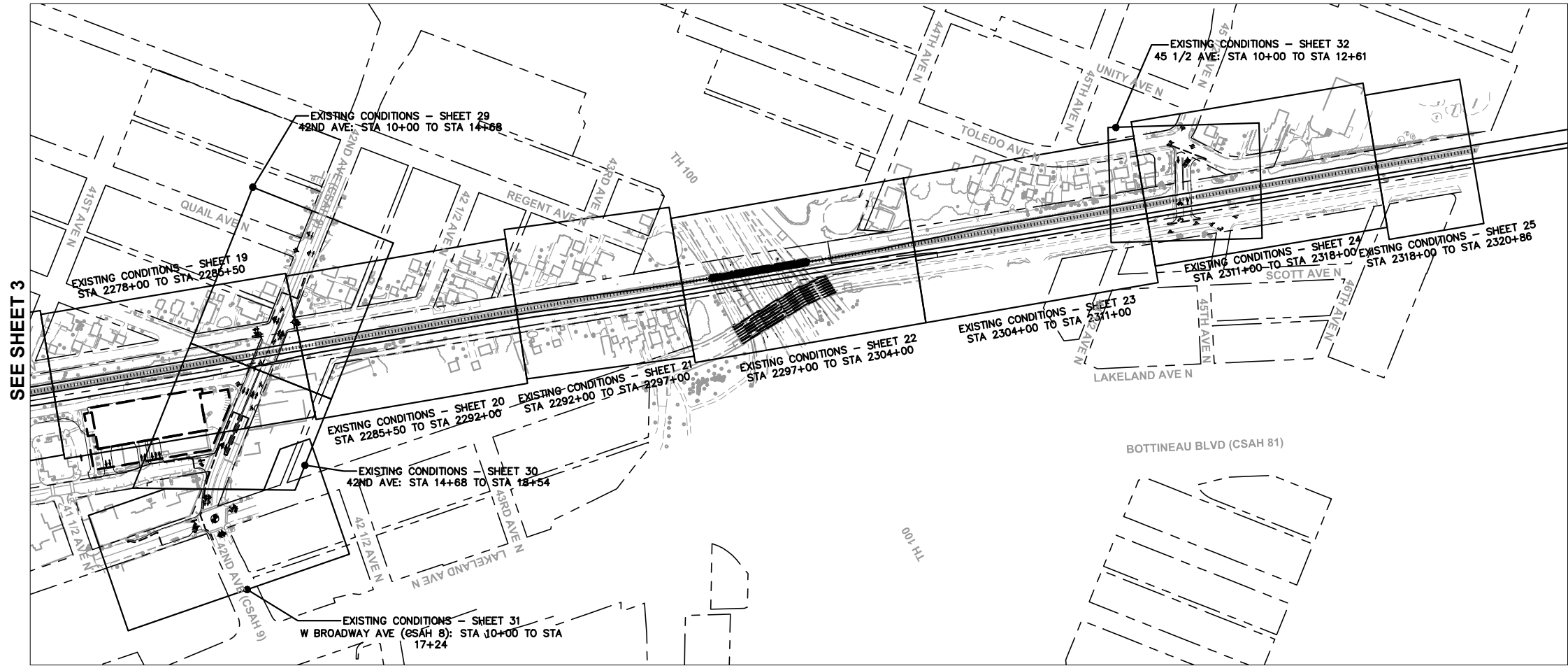


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EXISTING CONDITIONS
SHEET LAYOUT INDEX**

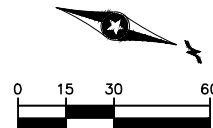
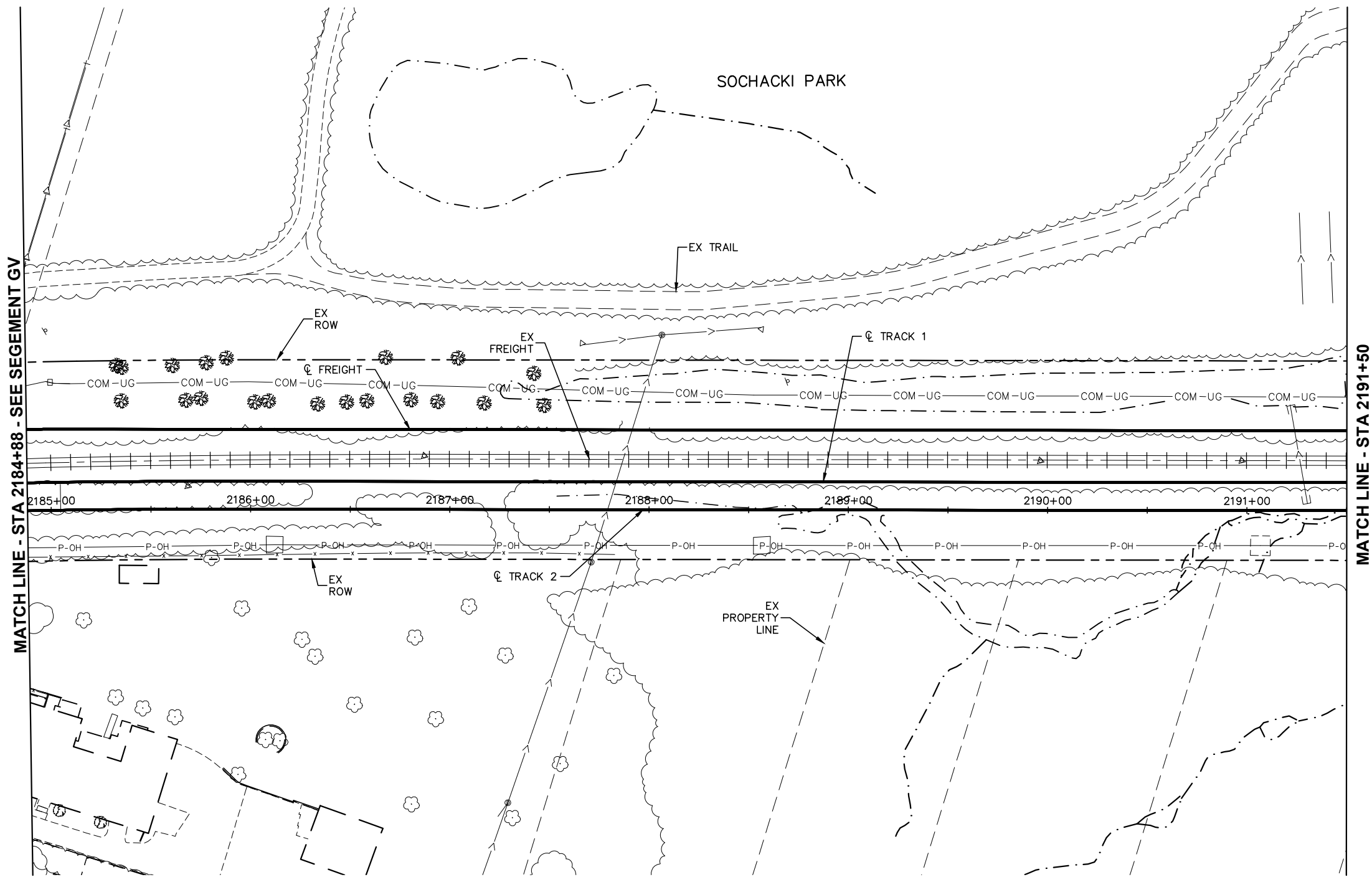
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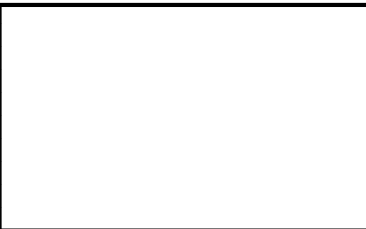
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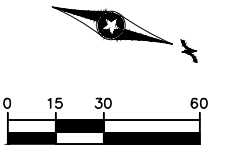
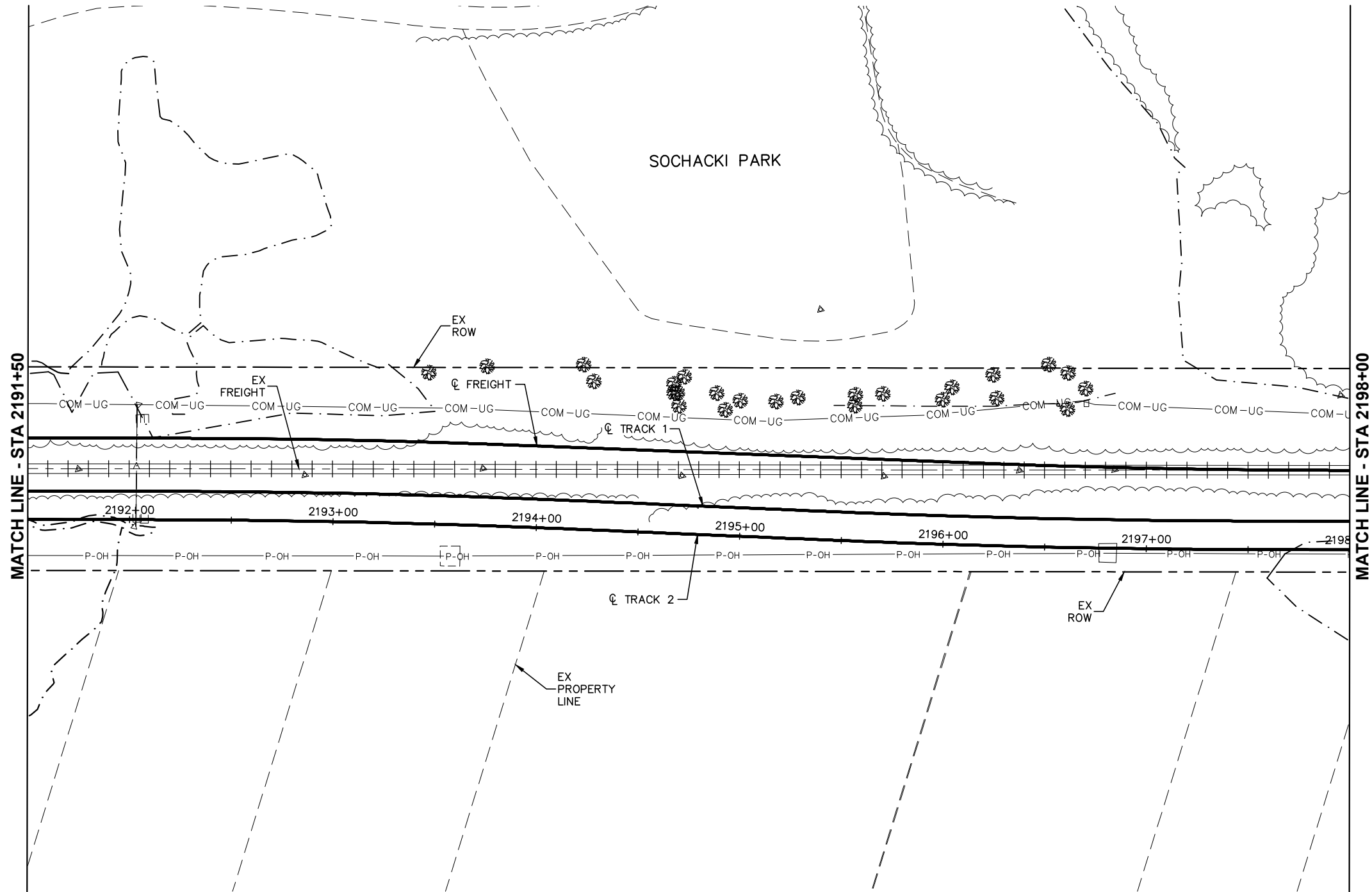
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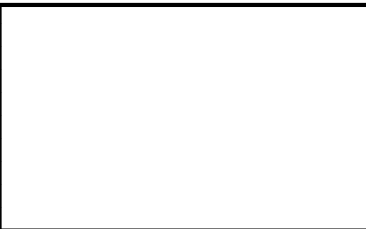
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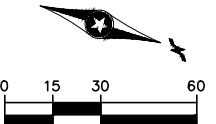
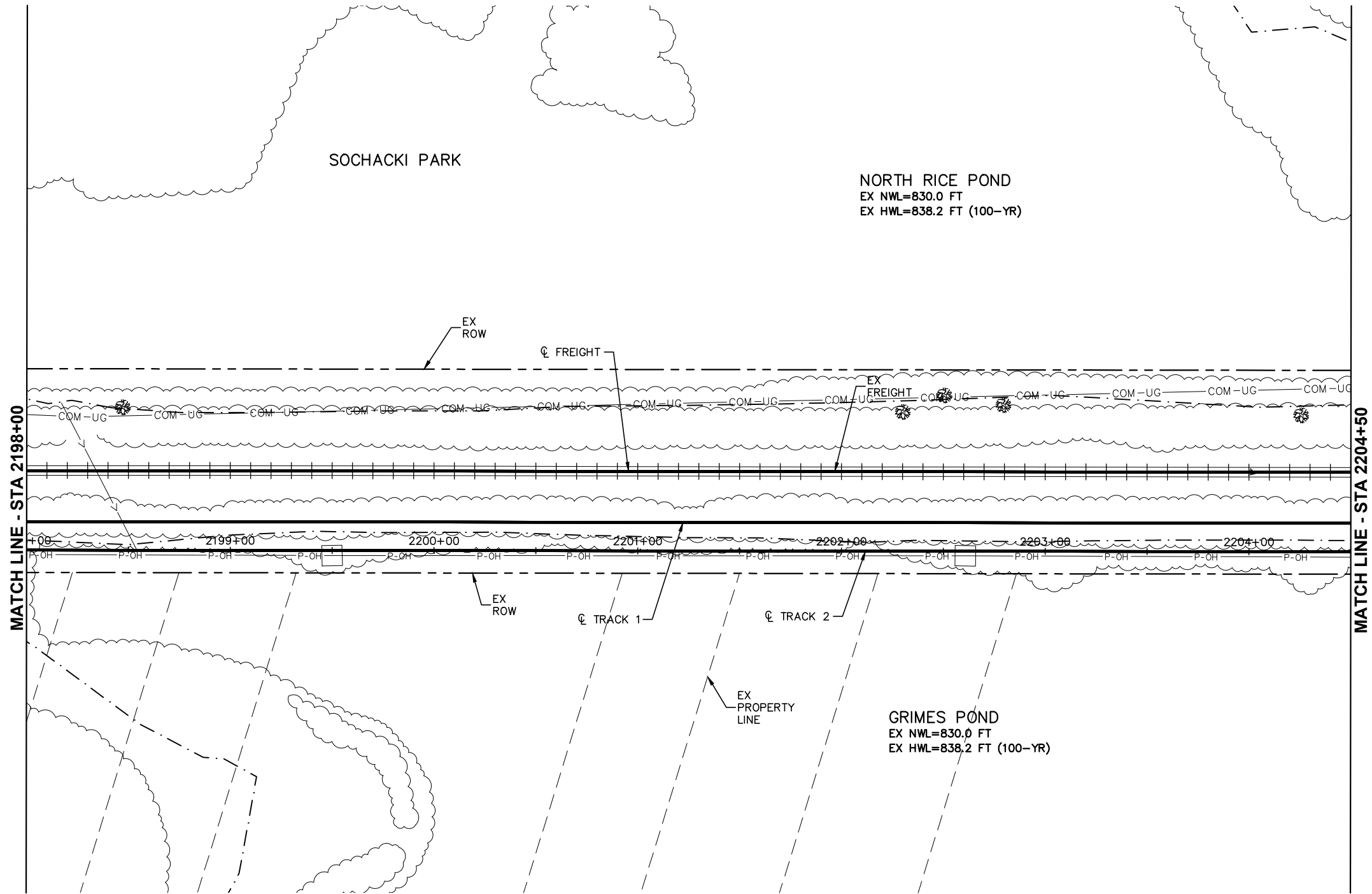
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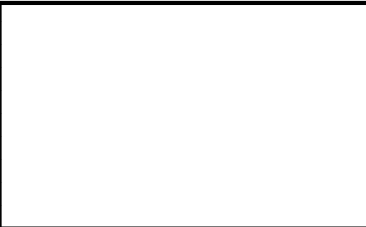
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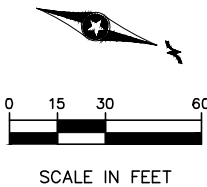
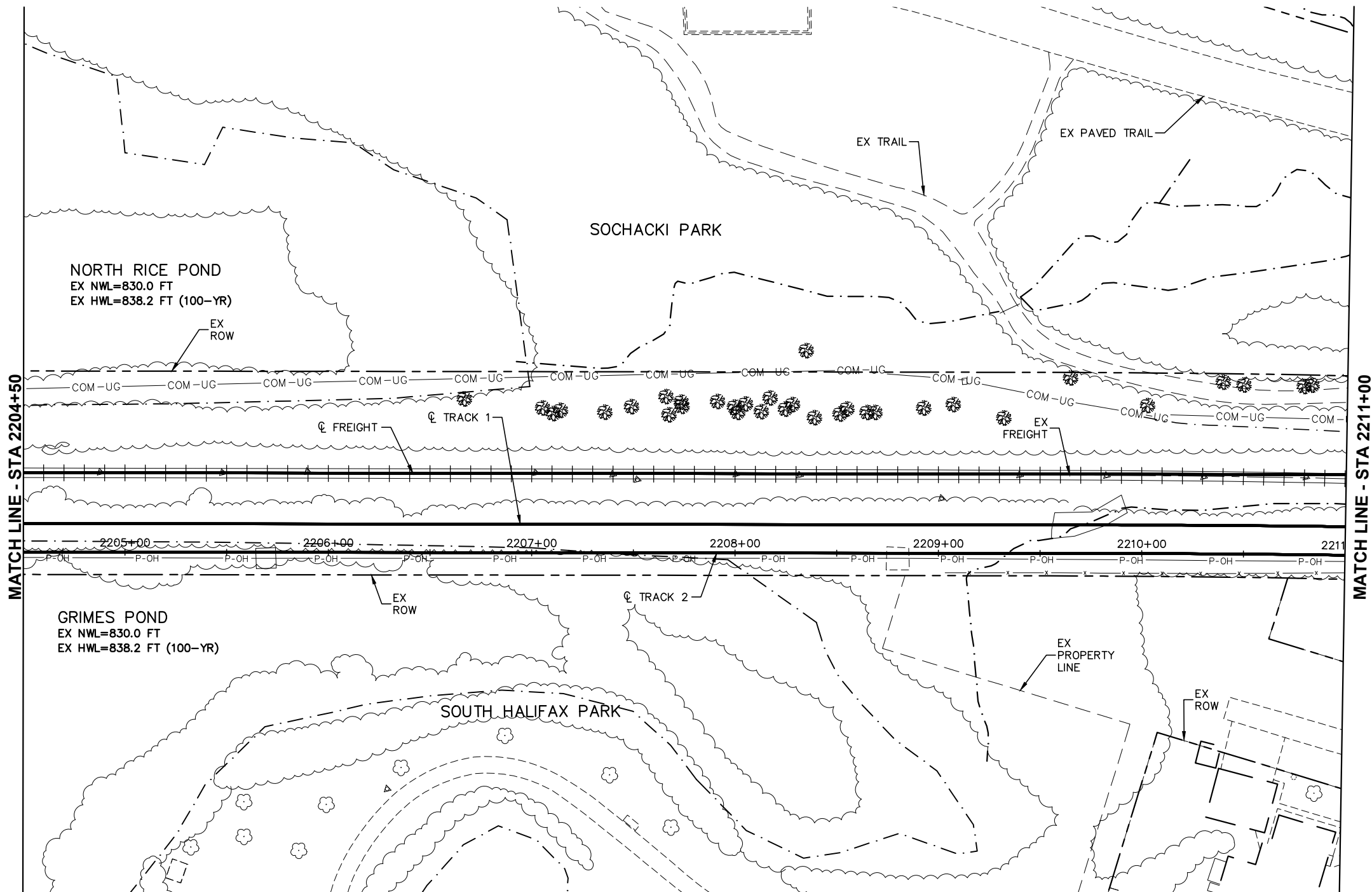
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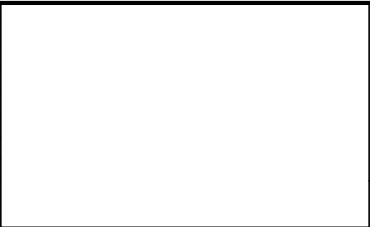
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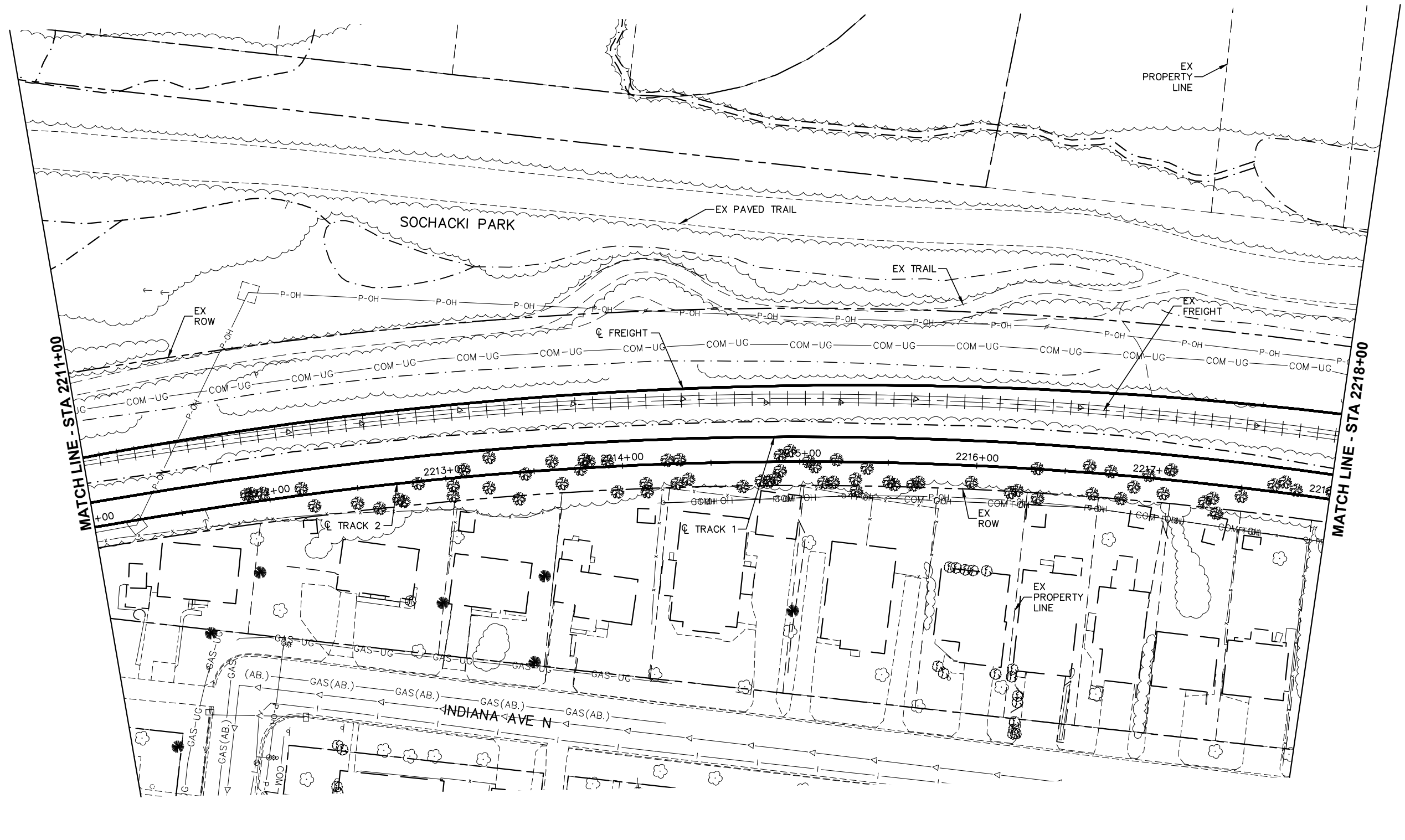
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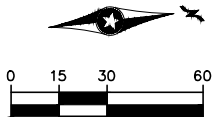
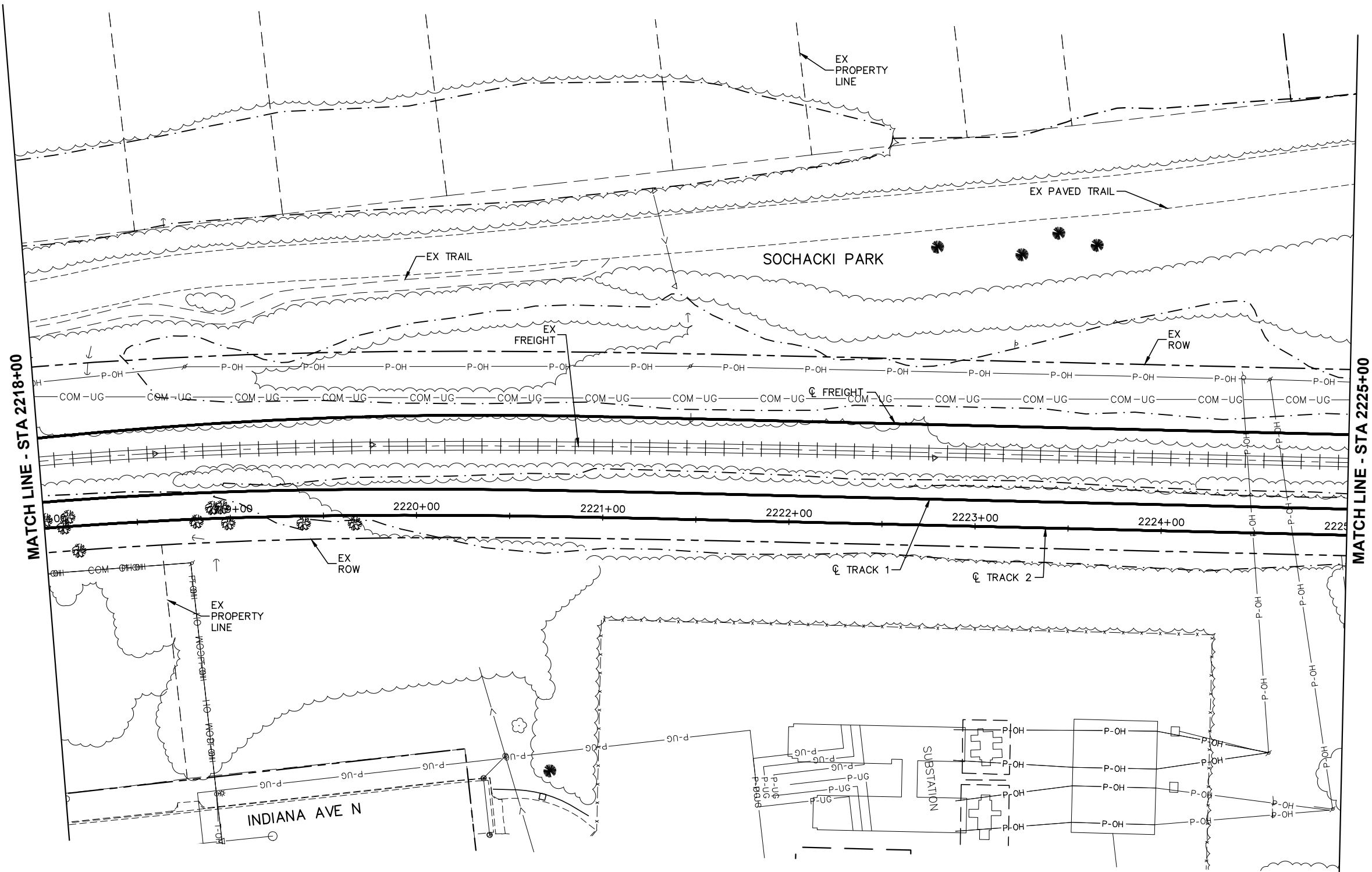
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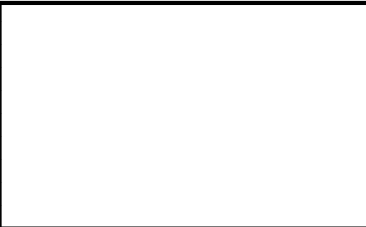
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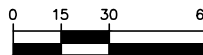
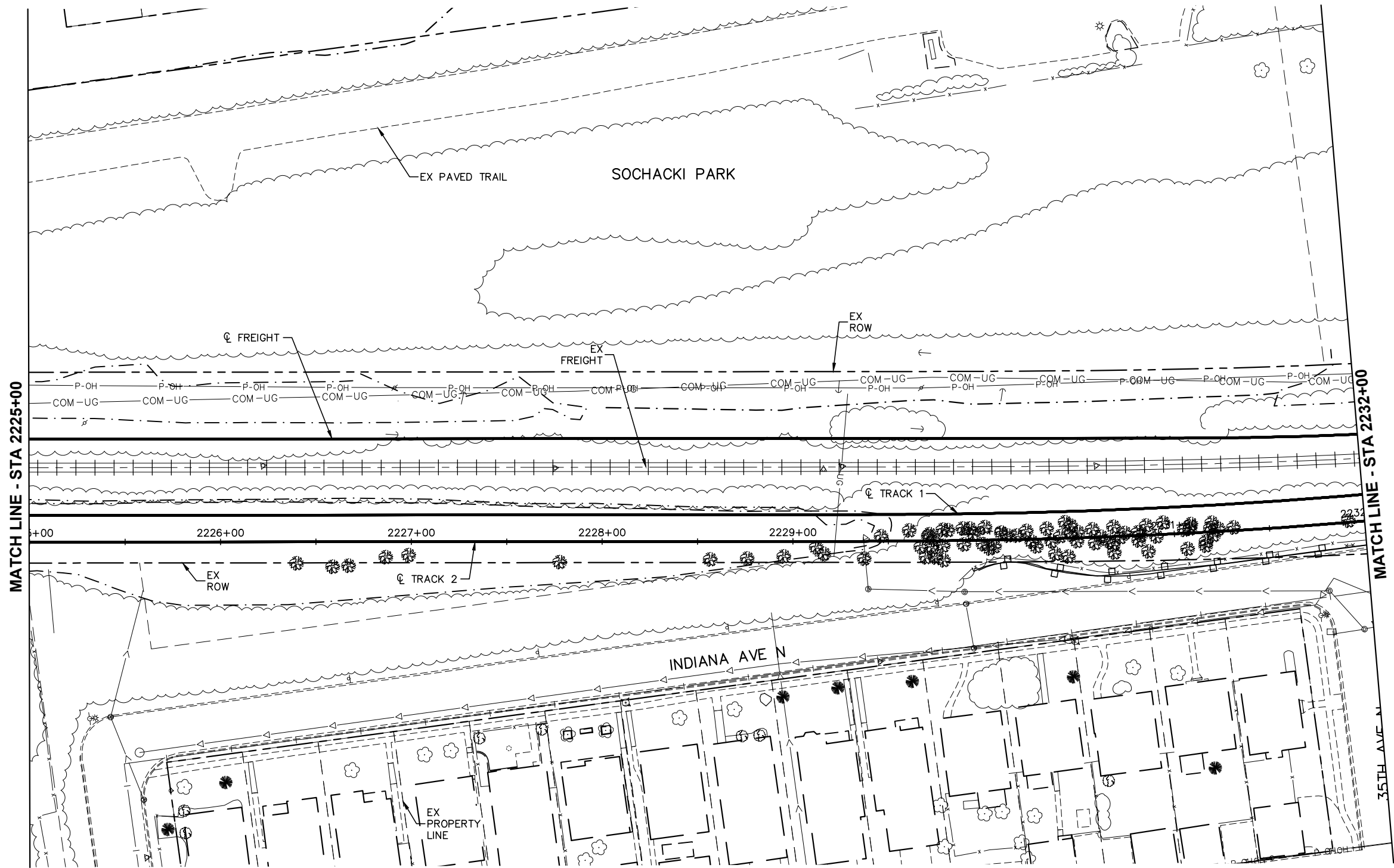
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DISCIPLINE: **SURVEY**

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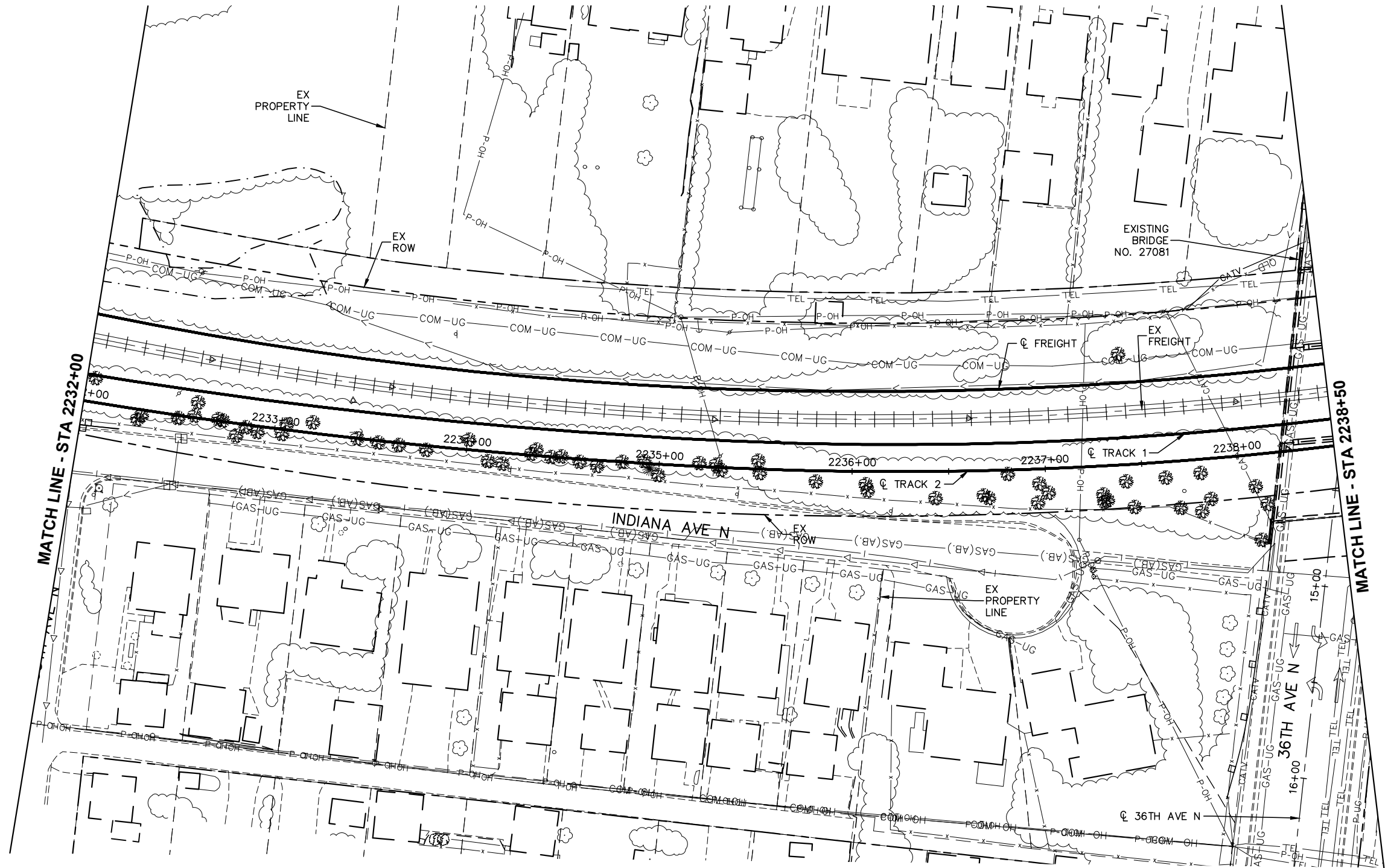


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EXISTING CONDITIONS
STA 2225+00 TO STA 2232+00**

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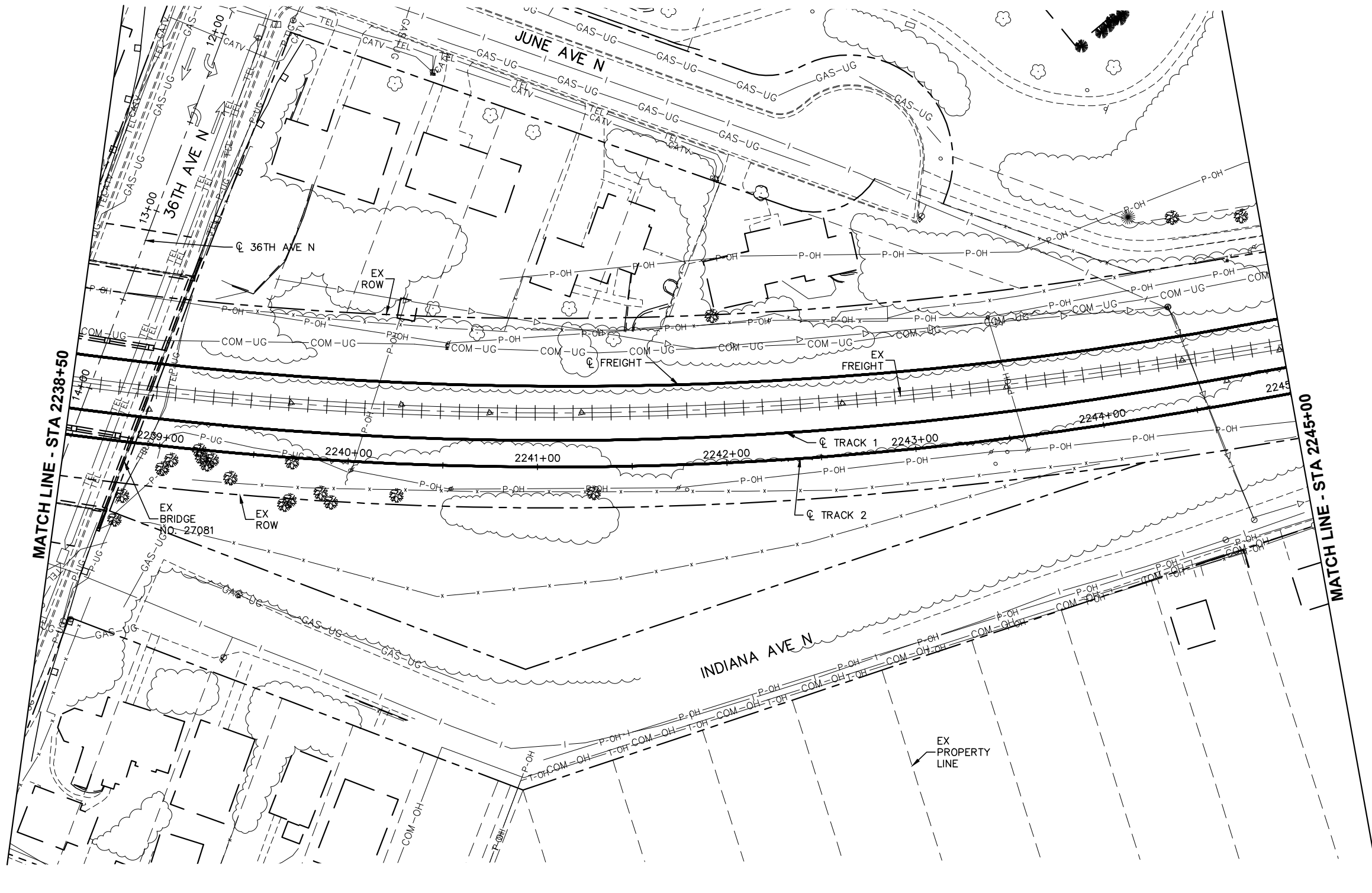
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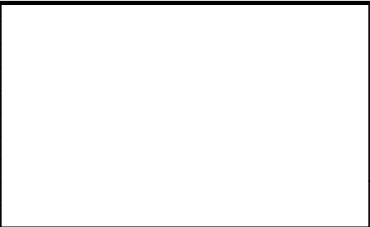
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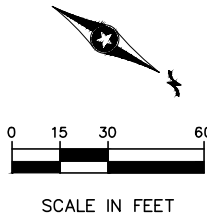
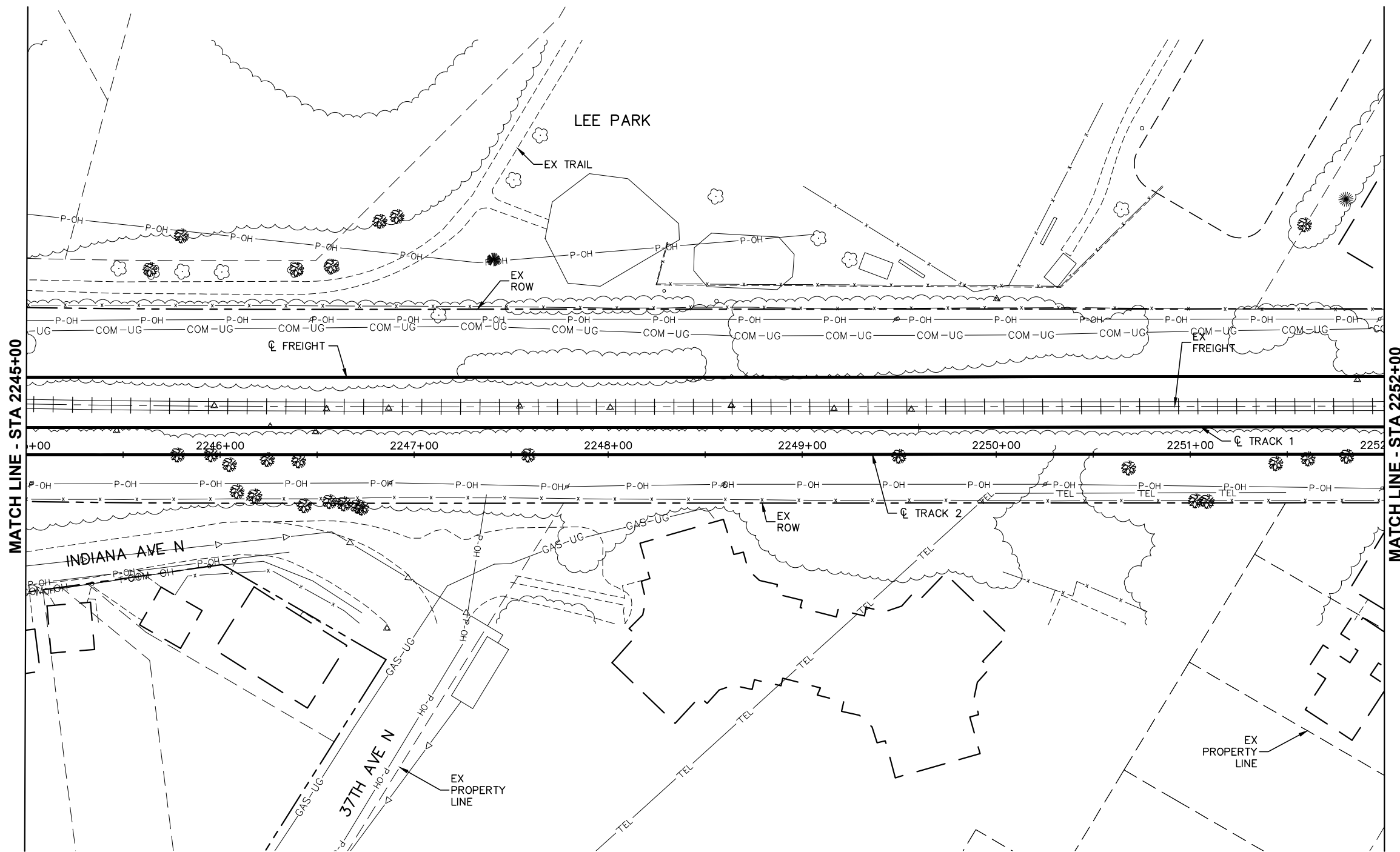
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RAIL CORRIDOR
EXISTING CONDITIONS
STA 2238+50 TO STA 2245+00**

DISCIPLINE: **SURVEY**

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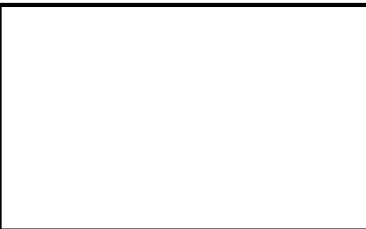
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13
OF
93

Dec, 07 2015 03:20 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\CIVIL\R-EXCON-PLN.dwg By: Newbauda



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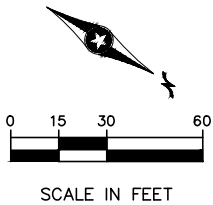
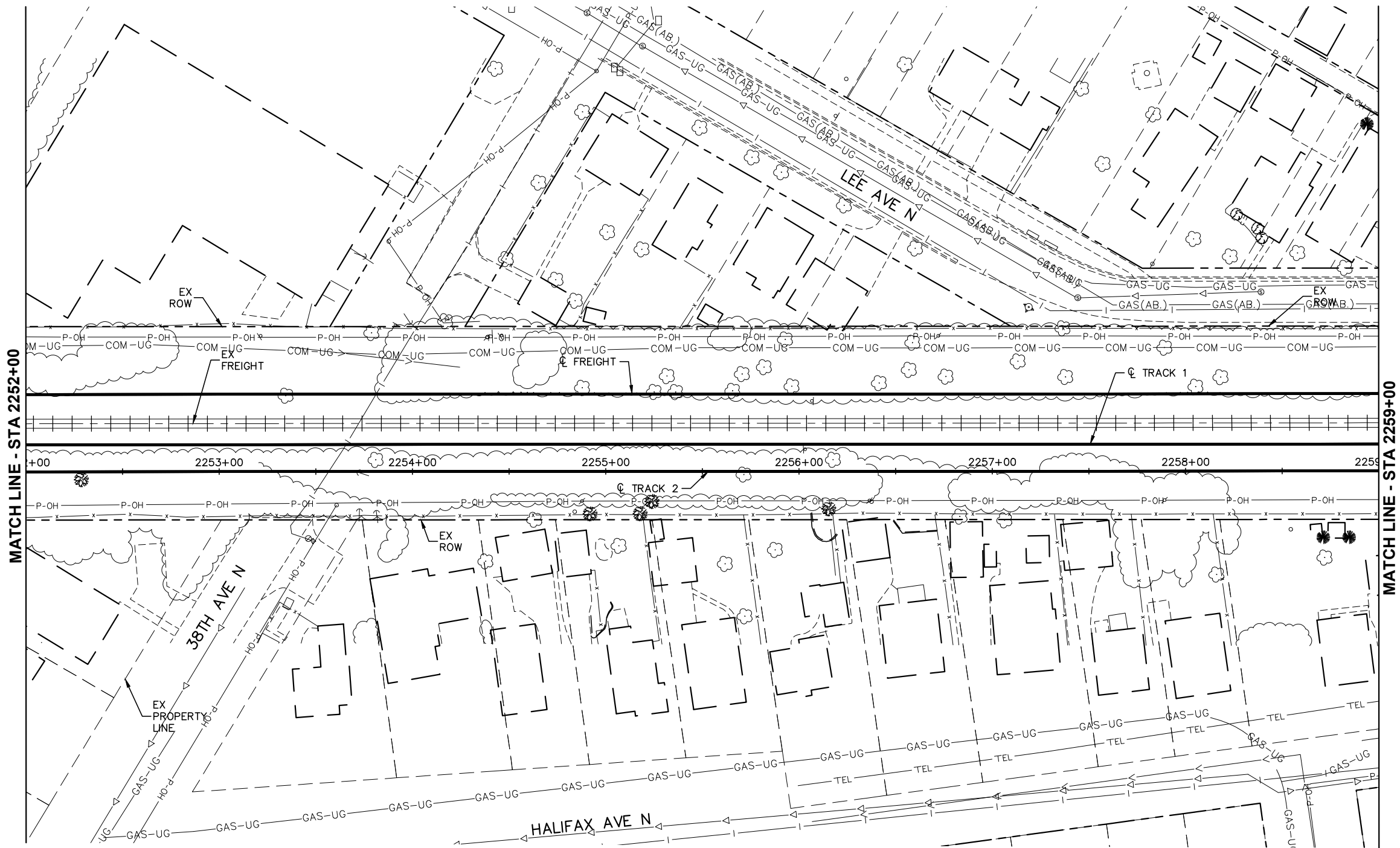
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EXISTING CONDITIONS
STA 2245+00 TO STA 2252+00

DISCIPLINE: SURVEY

SHEET NAME: R-EXCON-PLN-010

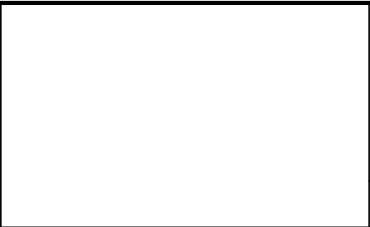
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14
OF
93

Dec, 07 2015 03:20 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\CIVIL\VR-EXCON-PLN.dwg By: Newbauda



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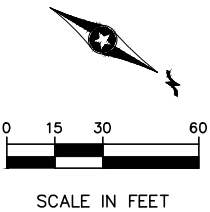
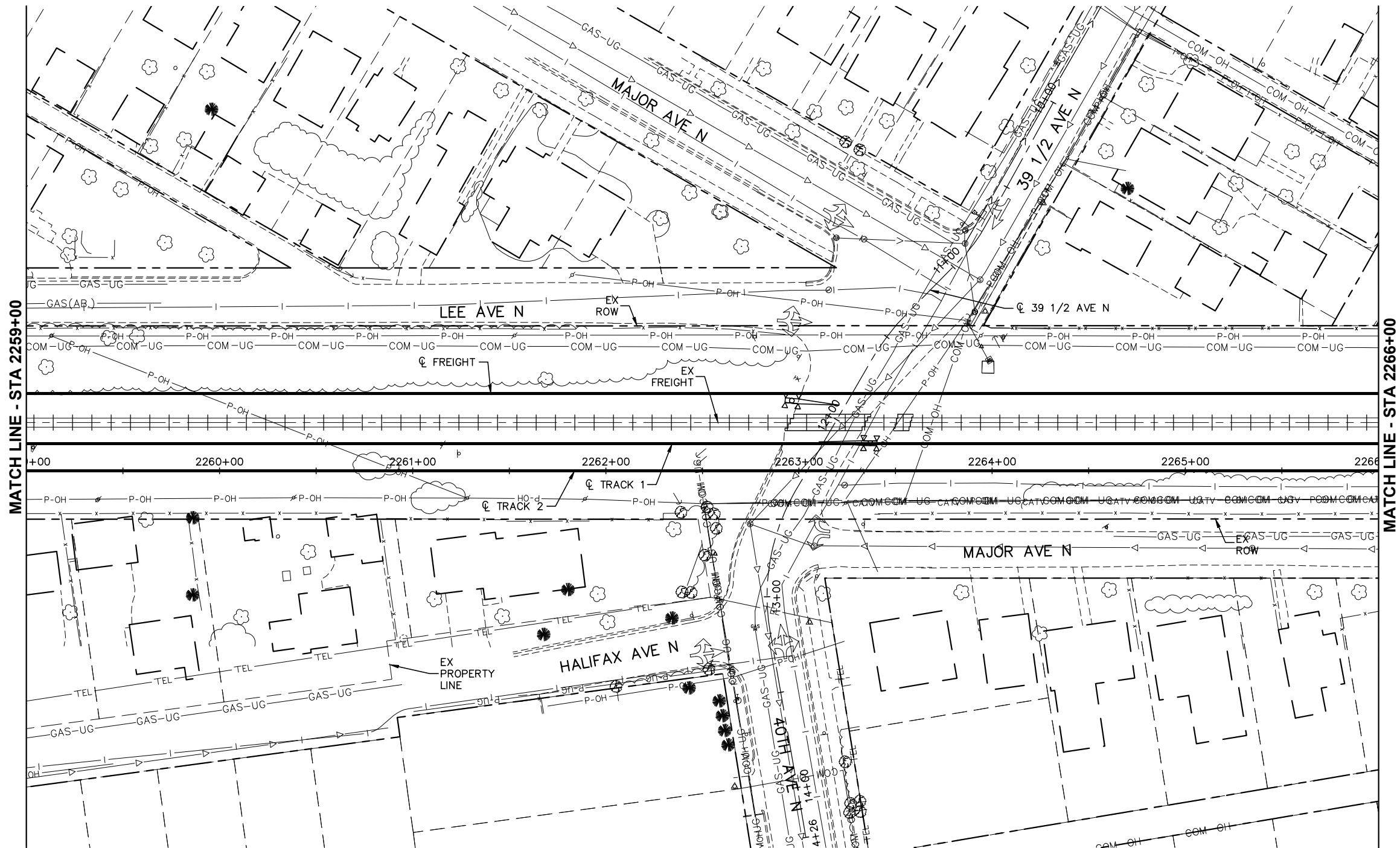
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RAIL CORRIDOR
EXISTING CONDITIONS
STA 2252+00 TO STA 2259+00**

DISCIPLINE: **SURVEY**

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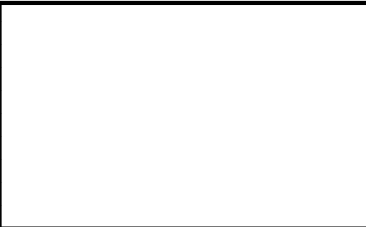
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15
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93

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METROPOLITAN COUNCIL

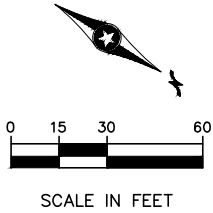
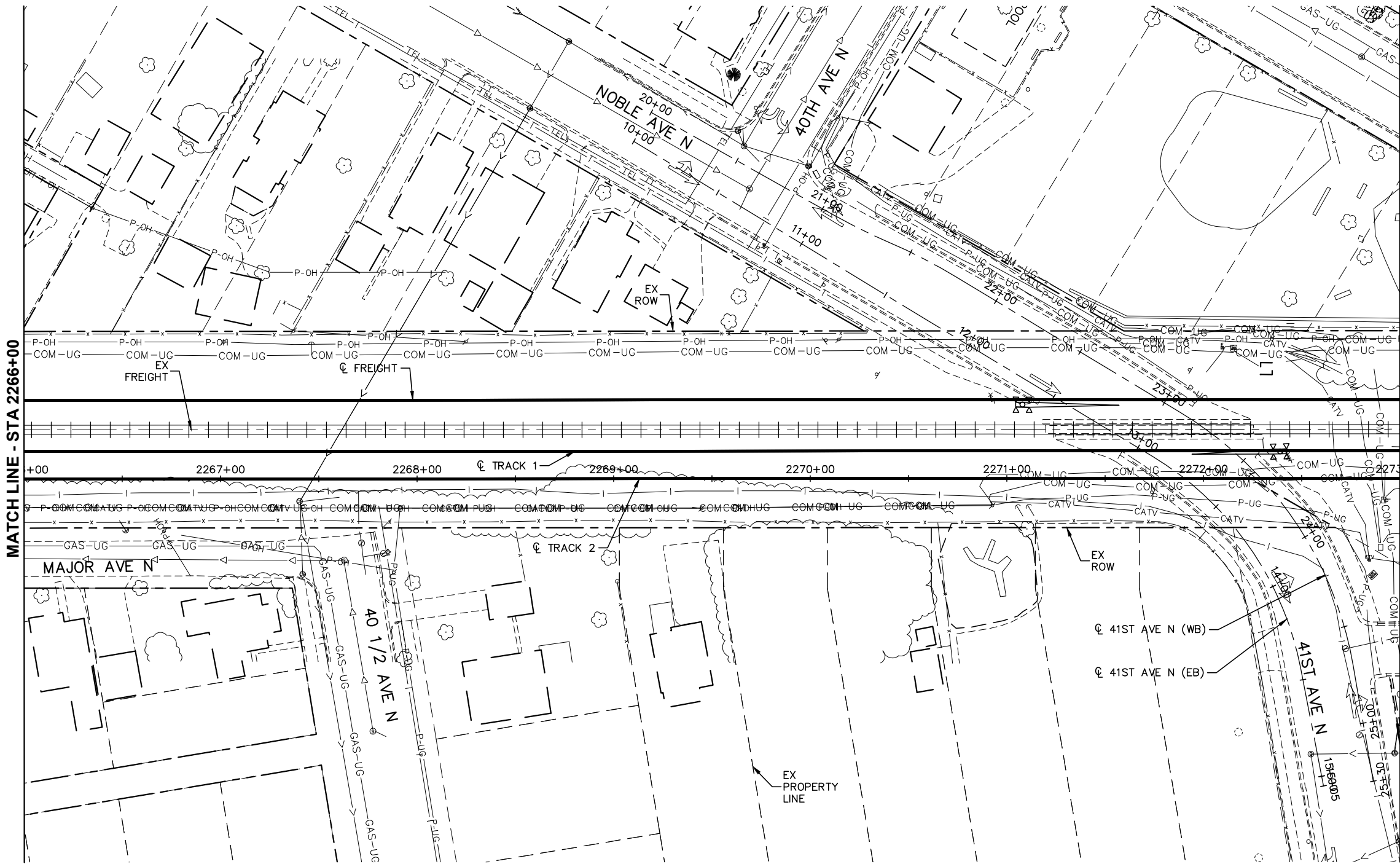
SEGMENT R
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2259+00 TO STA 2266+00

DISCIPLINE: SURVEY

SHEET NAME: R-EXCON-PLN-012

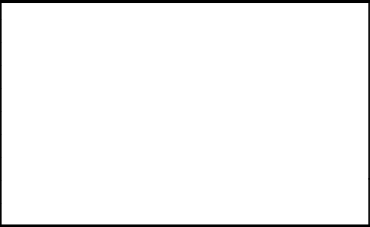
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16
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93

Dec, 07 2015 03:22 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\CIVIL\R-EXCON-PLN.dwg By: Newbauda



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METROPOLITAN COUNCIL

METRO BLUE LINE EXTENSION
BOSTONIA LRT

SEGMENT R
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2266+00 TO STA 2273+00

DISCIPLINE: SURVEY

SHEET NAME: R-EXCON-PLN-013

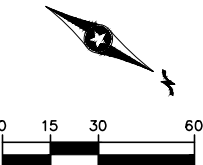
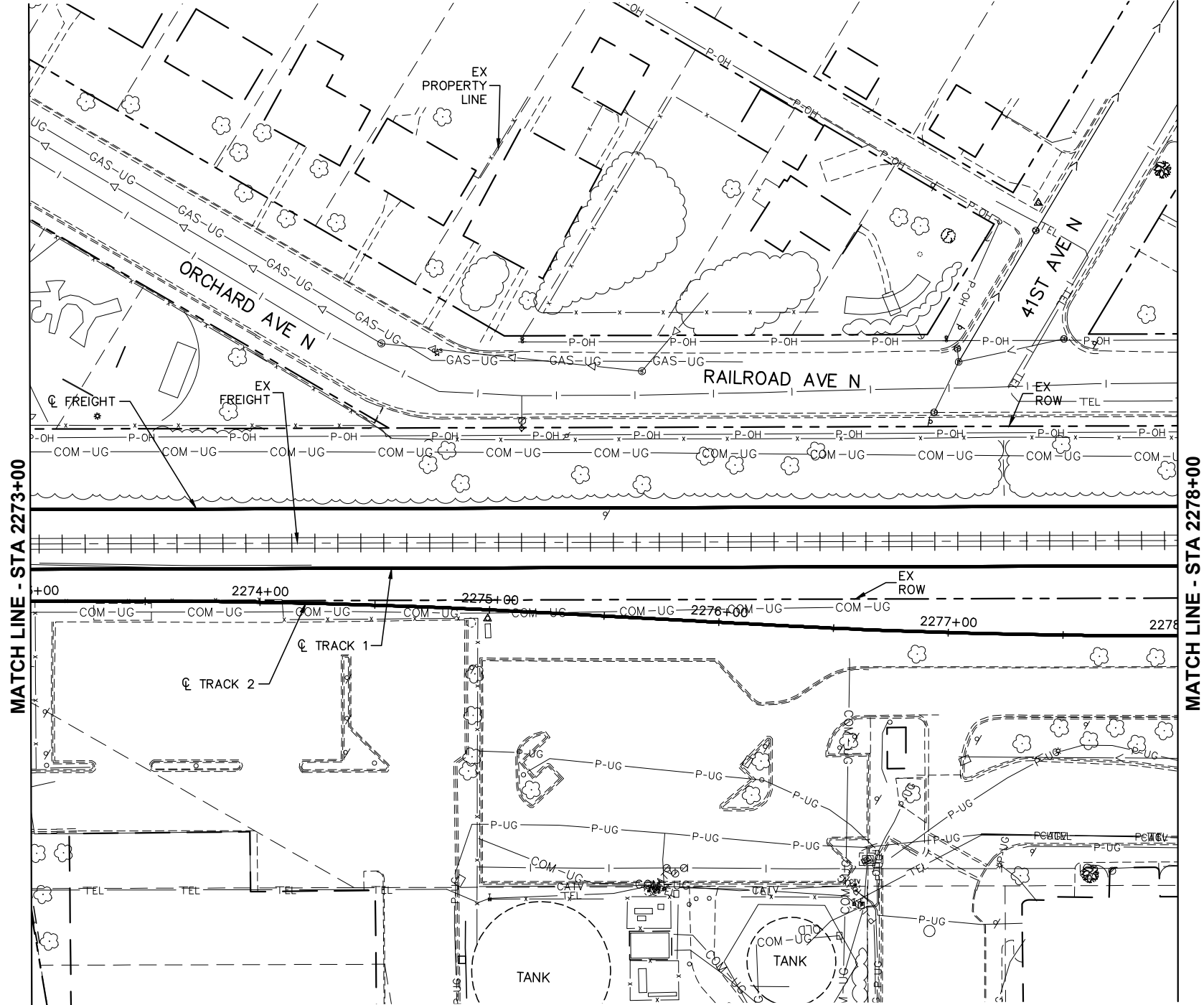
SHEET

17

OF

93

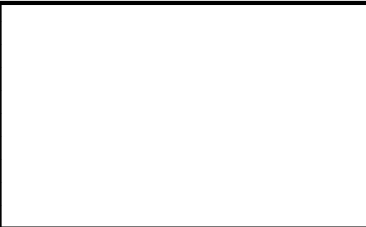
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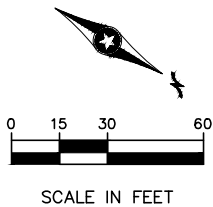
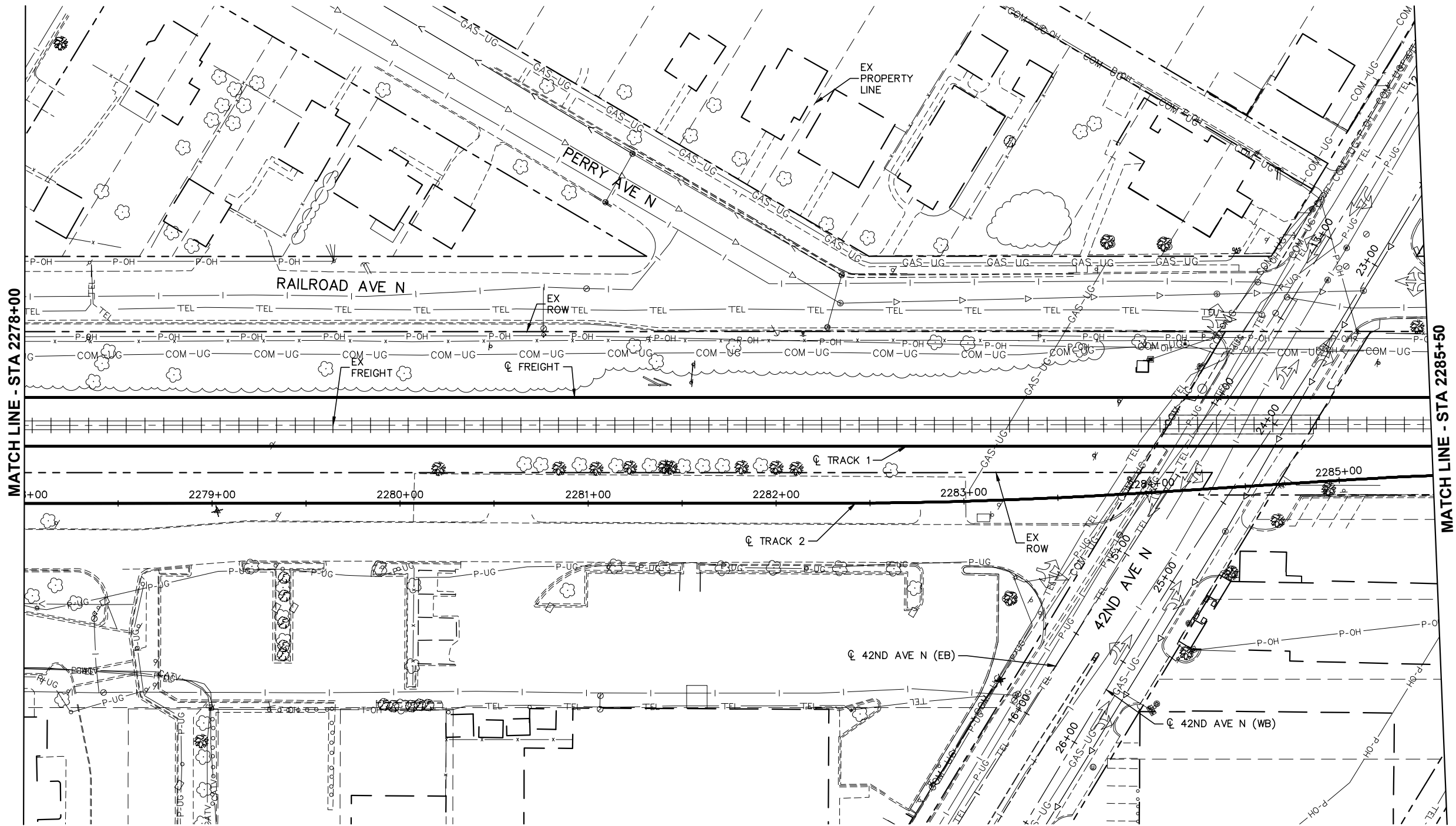
DISCIPLINE:
SURVEY

SEGMENT R
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2273+00 TO STA 2278+00

SHEET NAME:
R-EXCON-PLN-014

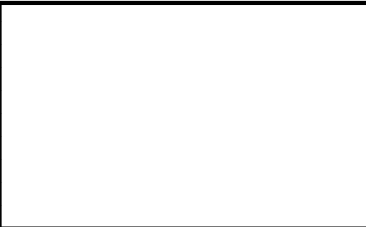
SHEET
18
OF
93

Dec, 07 2015 03:23 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\M\PLAN SHEETS\CIVIL\VR-EXCON-PLN.dwg By: Newbauda



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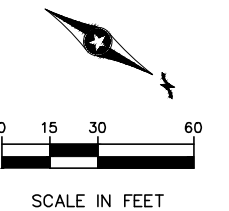
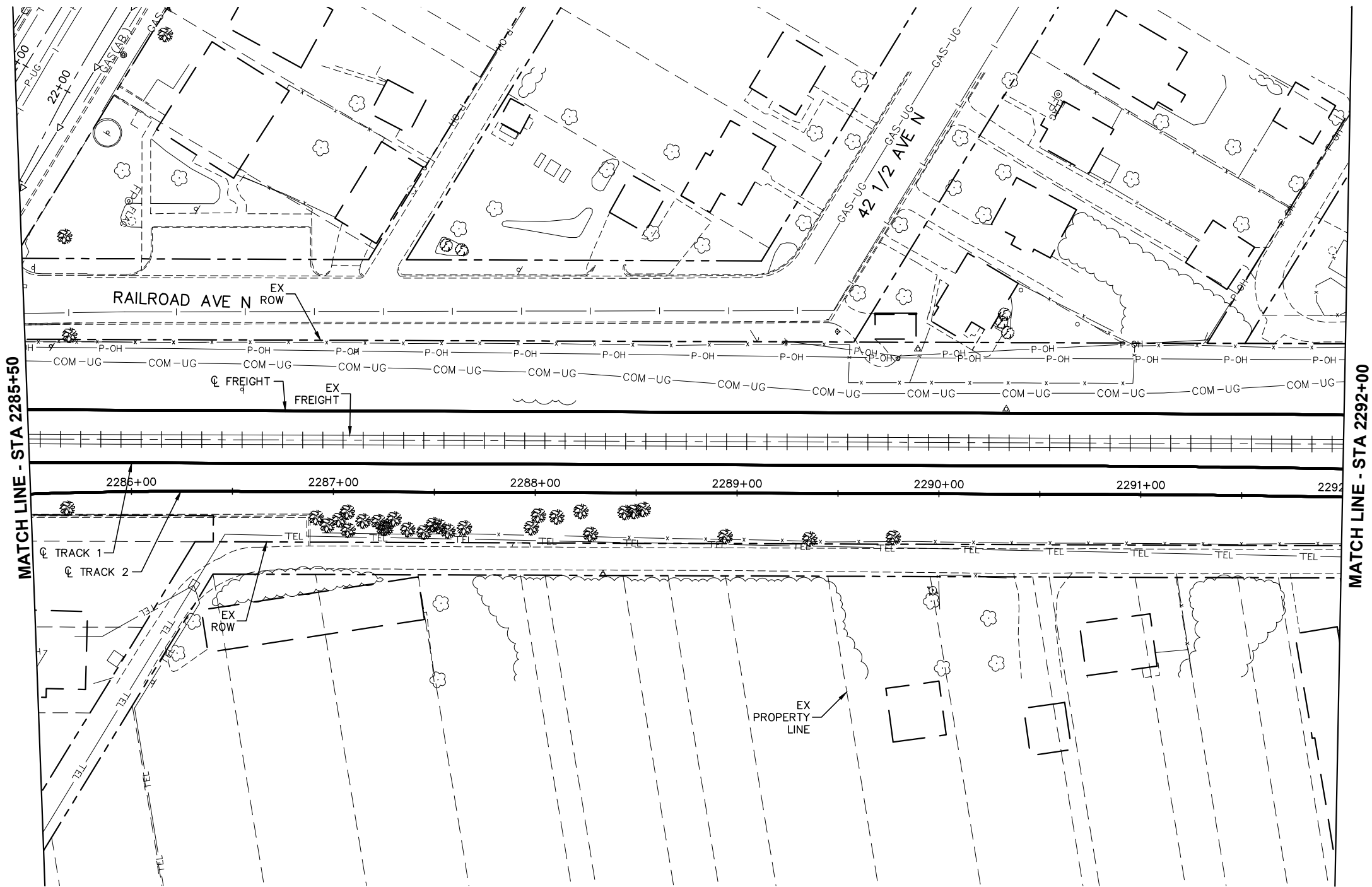
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SHEET NAME: R-EXCON-PLN-015

SEGMENT R
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2278+00 TO STA 2285+50

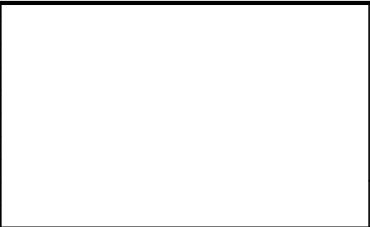
19
OF
93

Dec, 07 2015 03:23 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\M\PLAN SHEETS\CIVIL\VR-EXCON-PLN.dwg By: Newbauda



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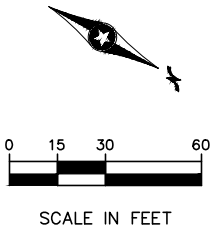
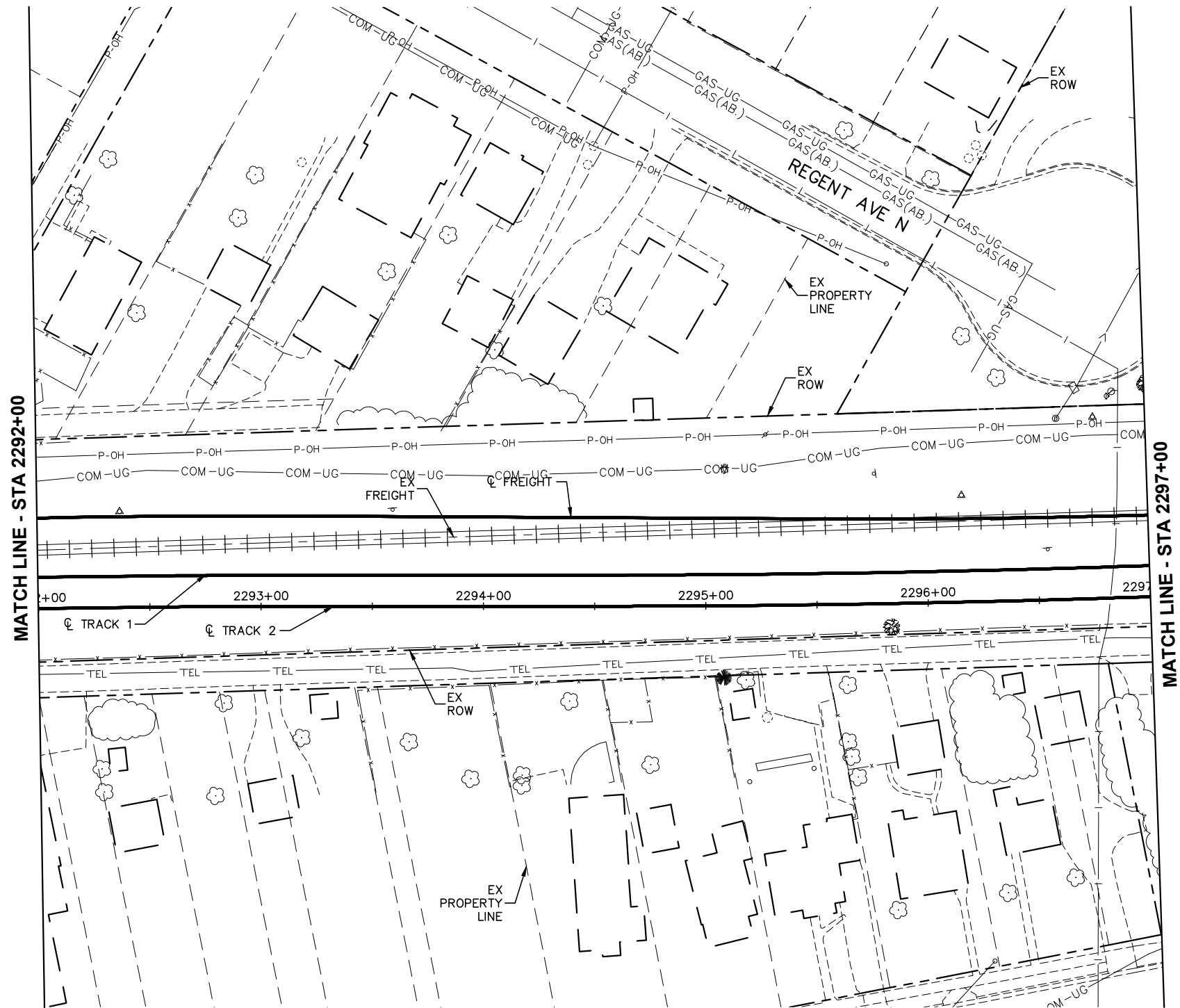
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RAIL CORRIDOR
EXISTING CONDITIONS
STA 2285+50 TO STA 2292+00**

DISCIPLINE: **SURVEY**

SHEET NAME: **R-EXCON-PLN-016**

SHEET
20
OF
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Dec, 07 2015 03:24 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\CIVIL\VR-EXCON-PLN.dwg By: Newbauda



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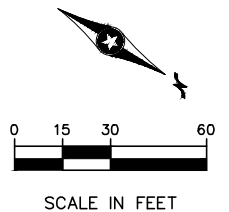
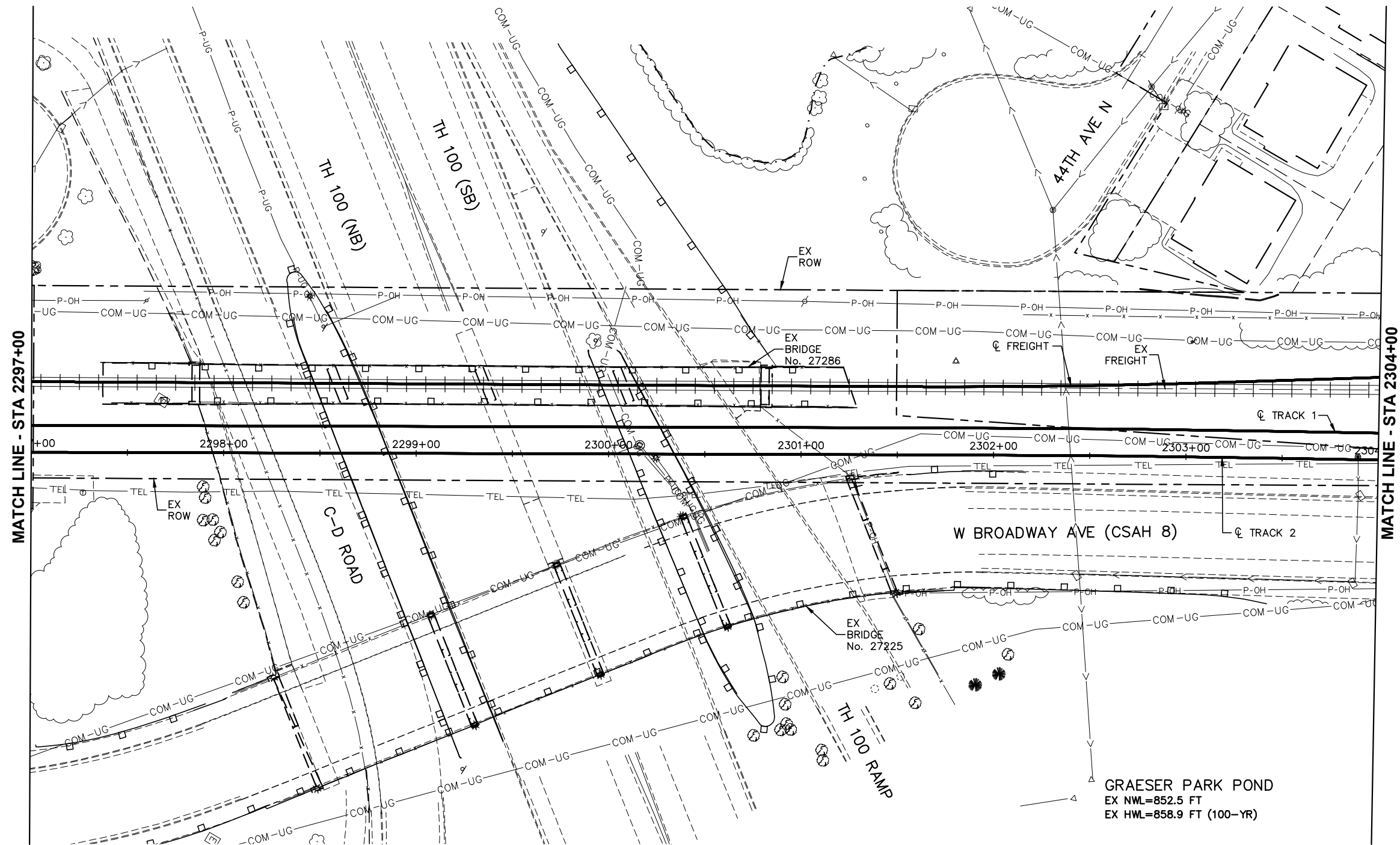


**SEGMENT R
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2292+00 TO STA 2297+00**

DISCIPLINE: **SURVEY**
SHEET NAME: **R-EXCON-PLN-017**

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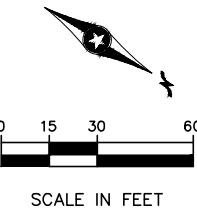
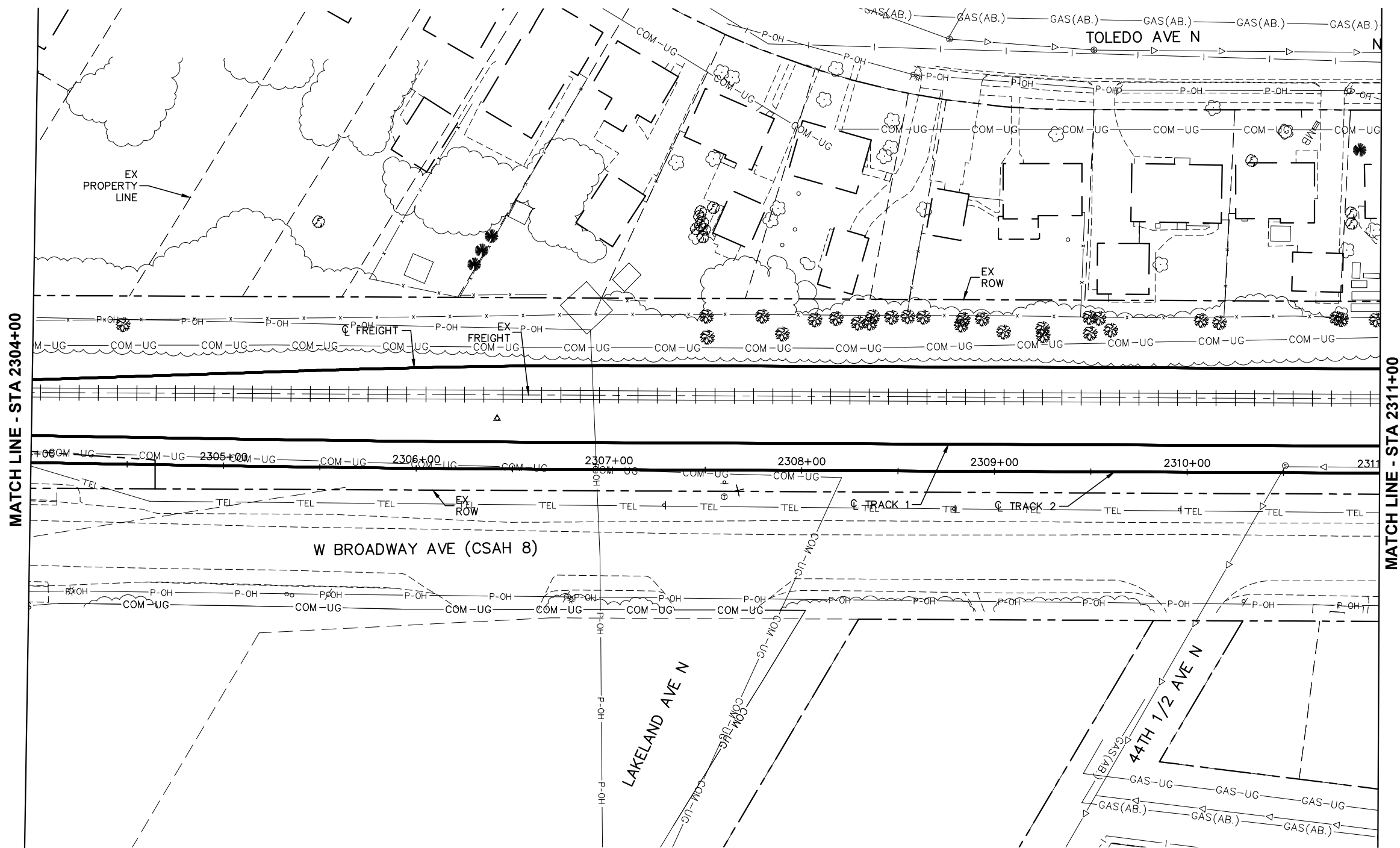
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RAIL CORRIDOR
EXISTING CONDITIONS
STA 2297+00 TO STA 2304+00**

DISCIPLINE: **SURVEY**

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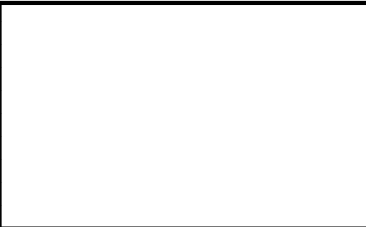
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OF
93

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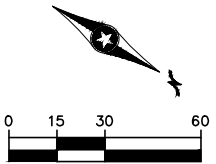
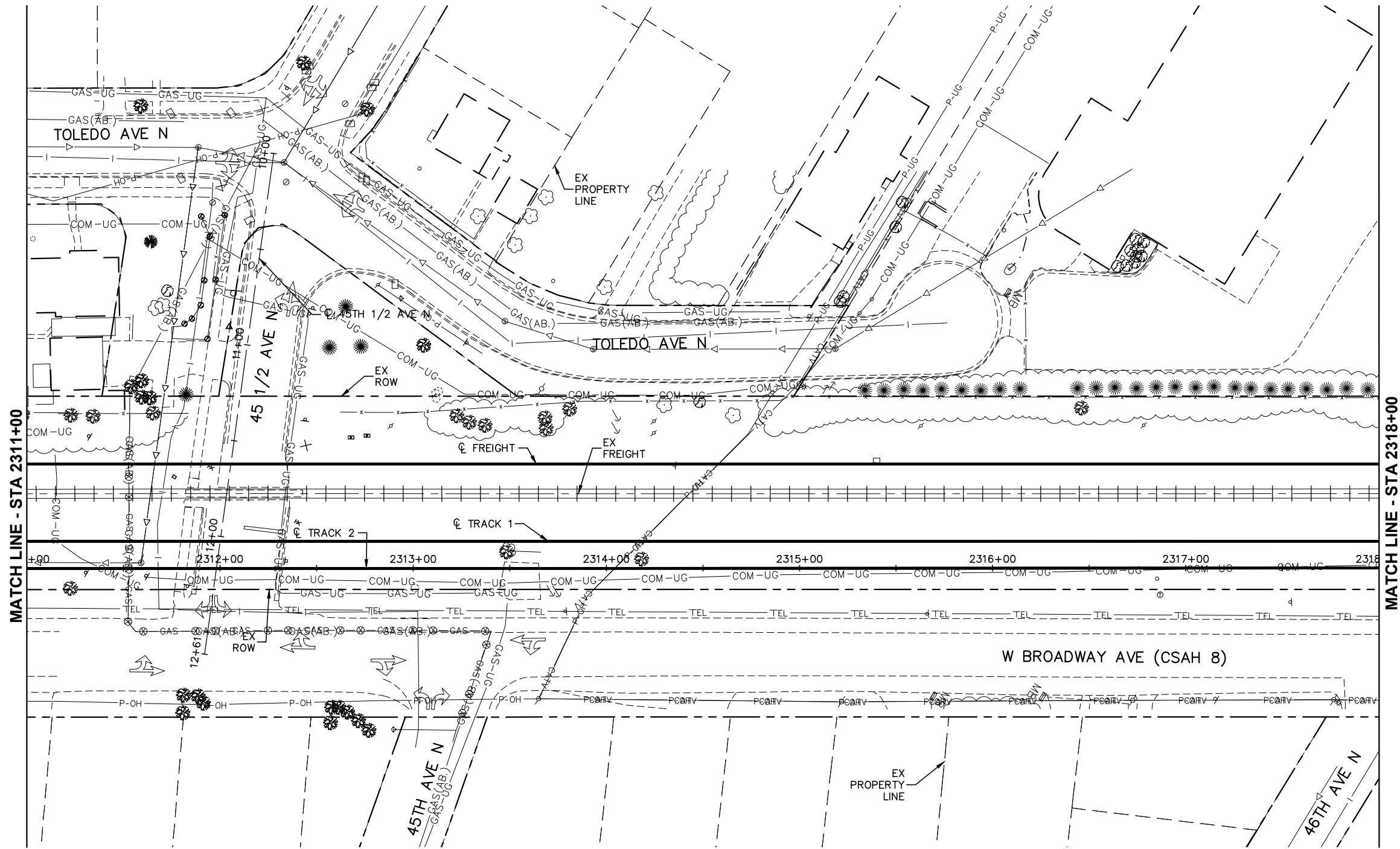
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RAIL CORRIDOR
EXISTING CONDITIONS
STA 2304+00 TO STA 2311+00**

DISCIPLINE: **SURVEY**

SHEET NAME: **R-EXCON-PLN-019**

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OF
93

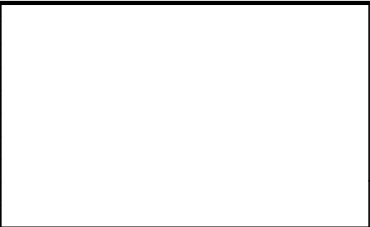
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SCALE IN FEET

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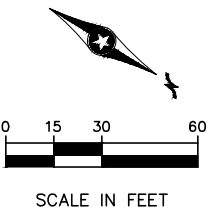
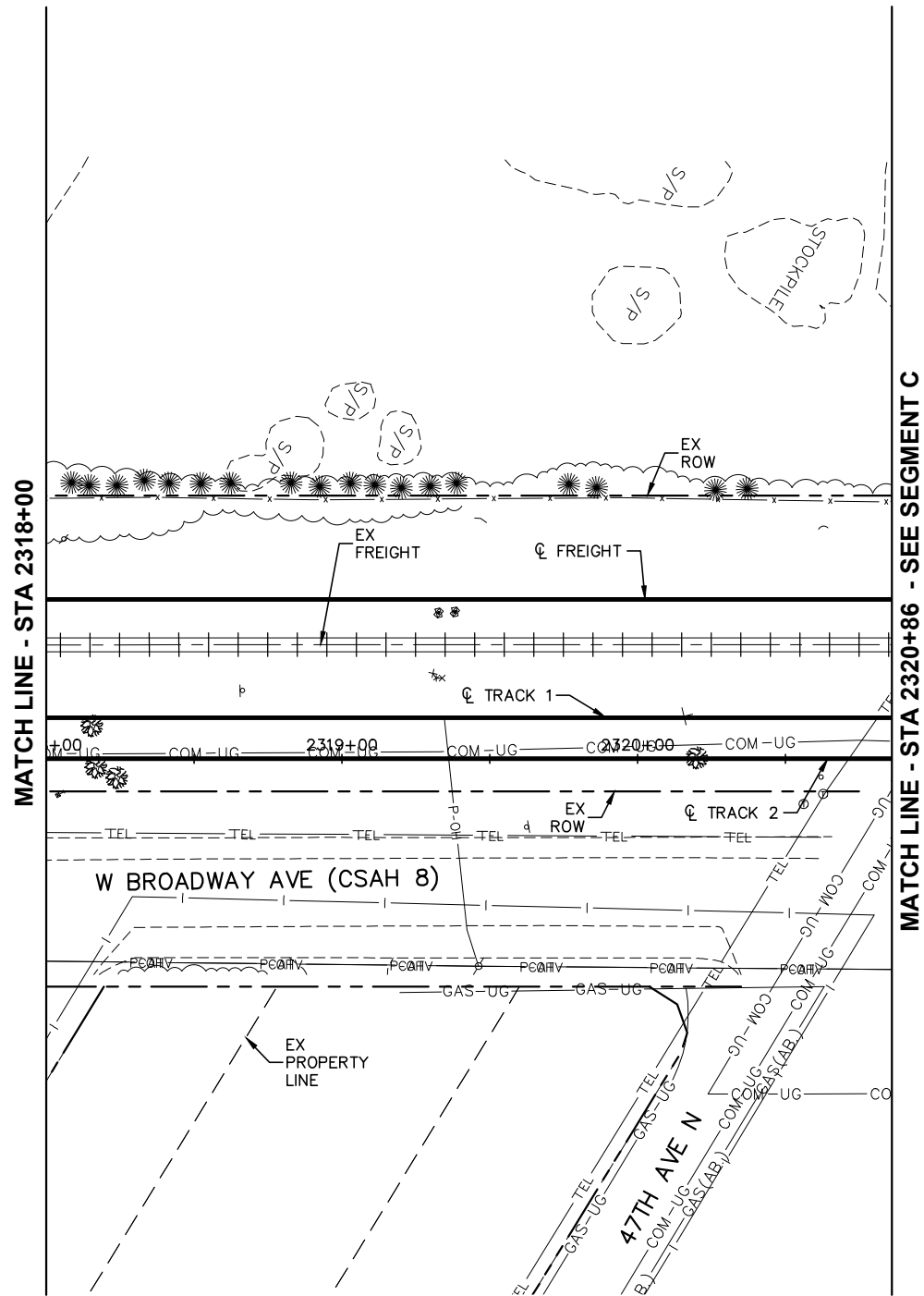
Engineering | Surveying | Planning | Environmental

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DISCIPLINE: SURVEY		SHEET NAME: R-EXCON-PLN-020	
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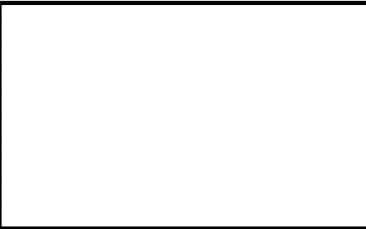
SEGMENT R RAIL CORRIDOR EXISTING CONDITIONS STA 2311+00 TO STA 2318+00	SHEET 24 OF 93
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Dec, 07 2015 03:27 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\CIVIL\R-EXCON-PLN.dwg By: Newbauda



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SEGMENT R
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2318+00 TO STA 2320+86

DISCIPLINE: SURVEY

SHEET NAME: R-EXCON-PLN-021

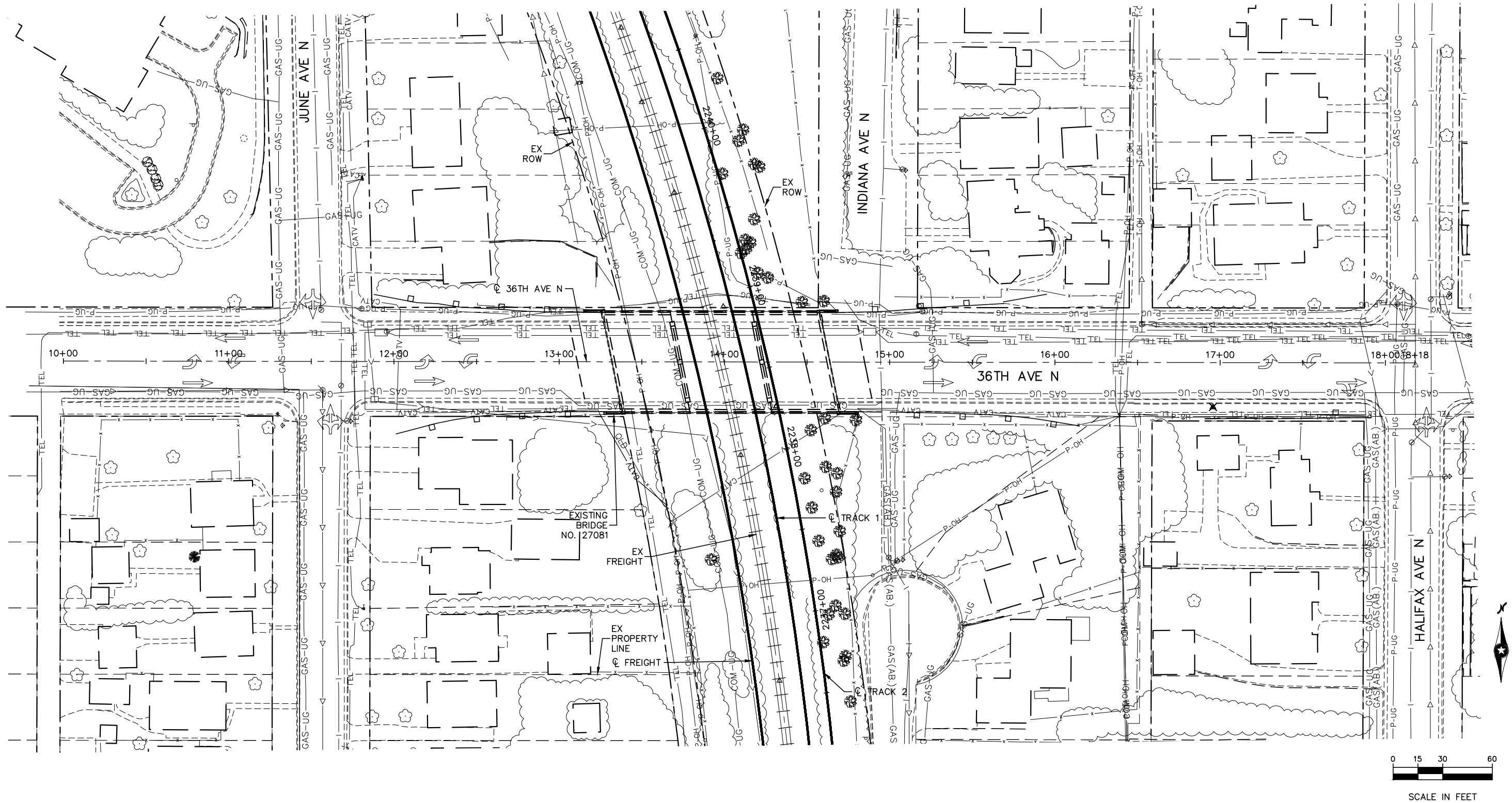
SHEET

25

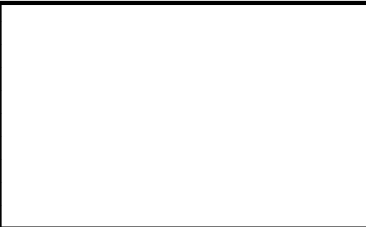
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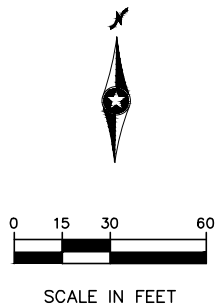
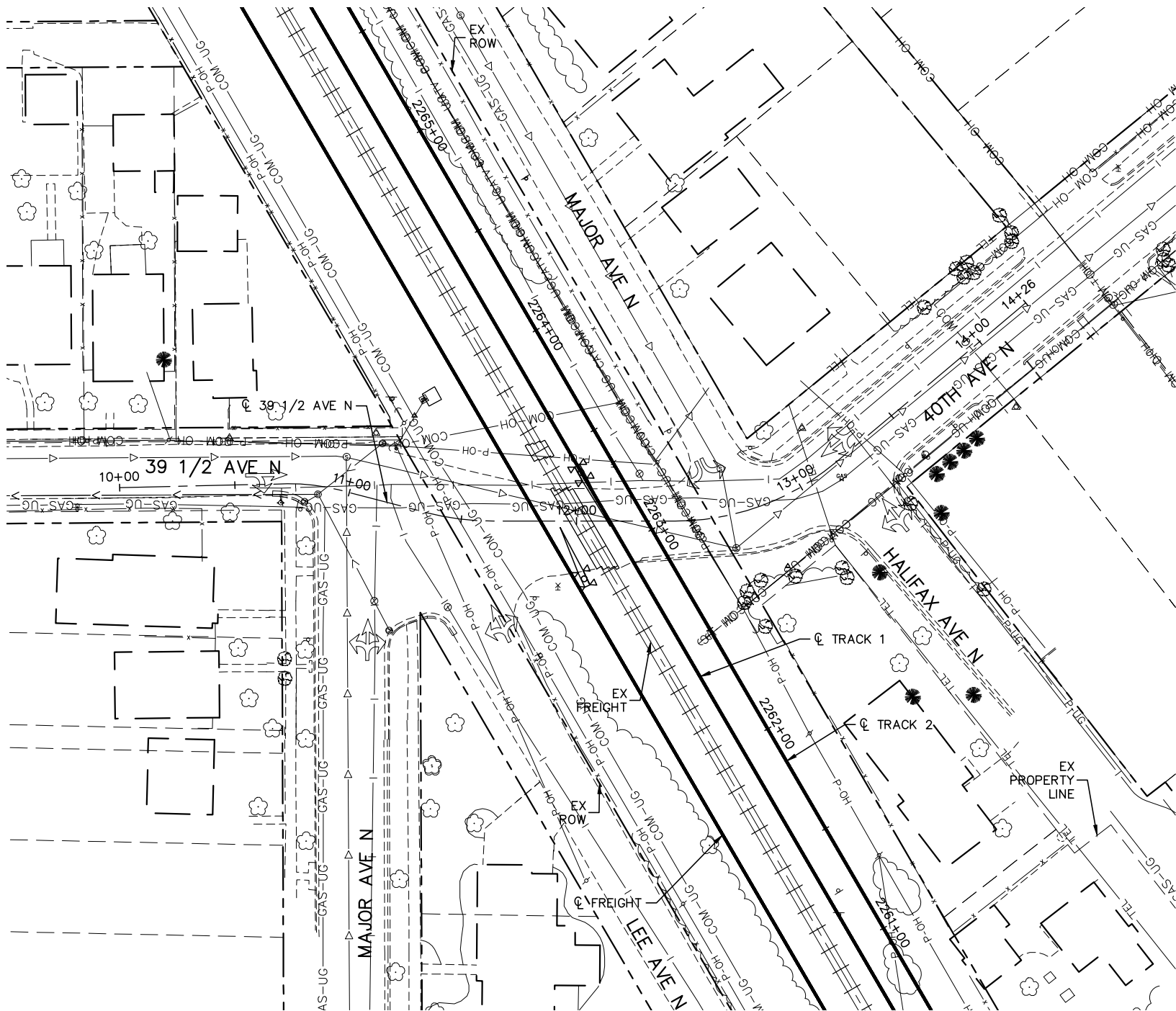


SEGMENT R
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STA 10+00 TO STA 18+18

DISCIPLINE: SURVEY

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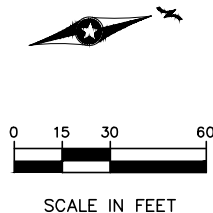
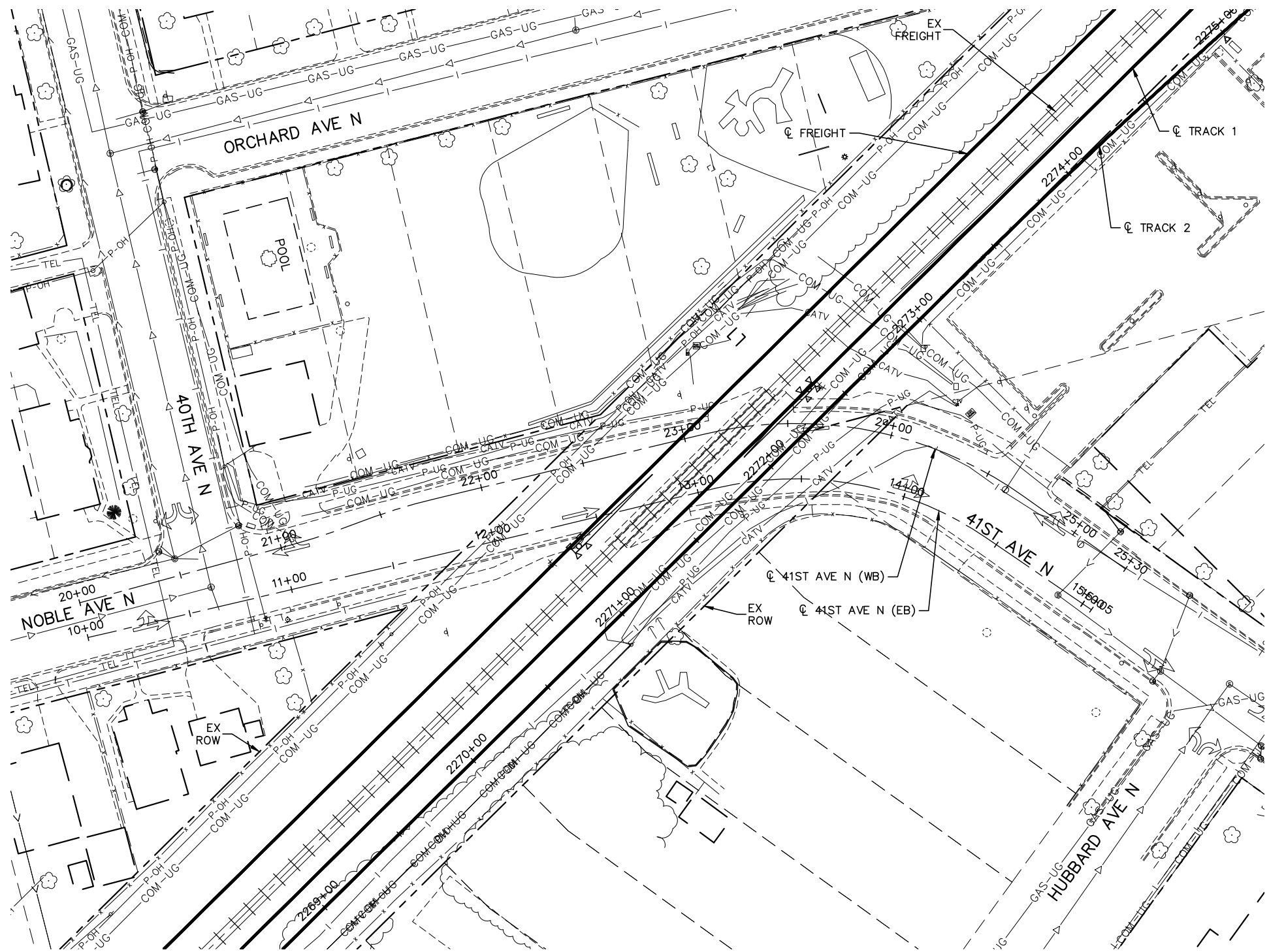
SEGMENT R
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EXISTING CONDITIONS
STA 10+00 TO STA 14+26

DISCIPLINE: SURVEY

SHEET NAME: R-EXCON-PLN-023

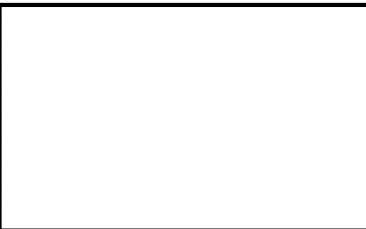
SHEET
27
OF
93

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SEGMENT R
NOBLE AVE N / 41ST AVE N
EXISTING CONDITIONS
STA 10+00 TO STA 15+05

DISCIPLINE: SURVEY

SHEET NAME: R-EXCON-PLN-024

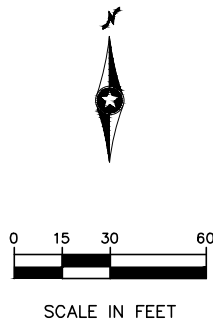
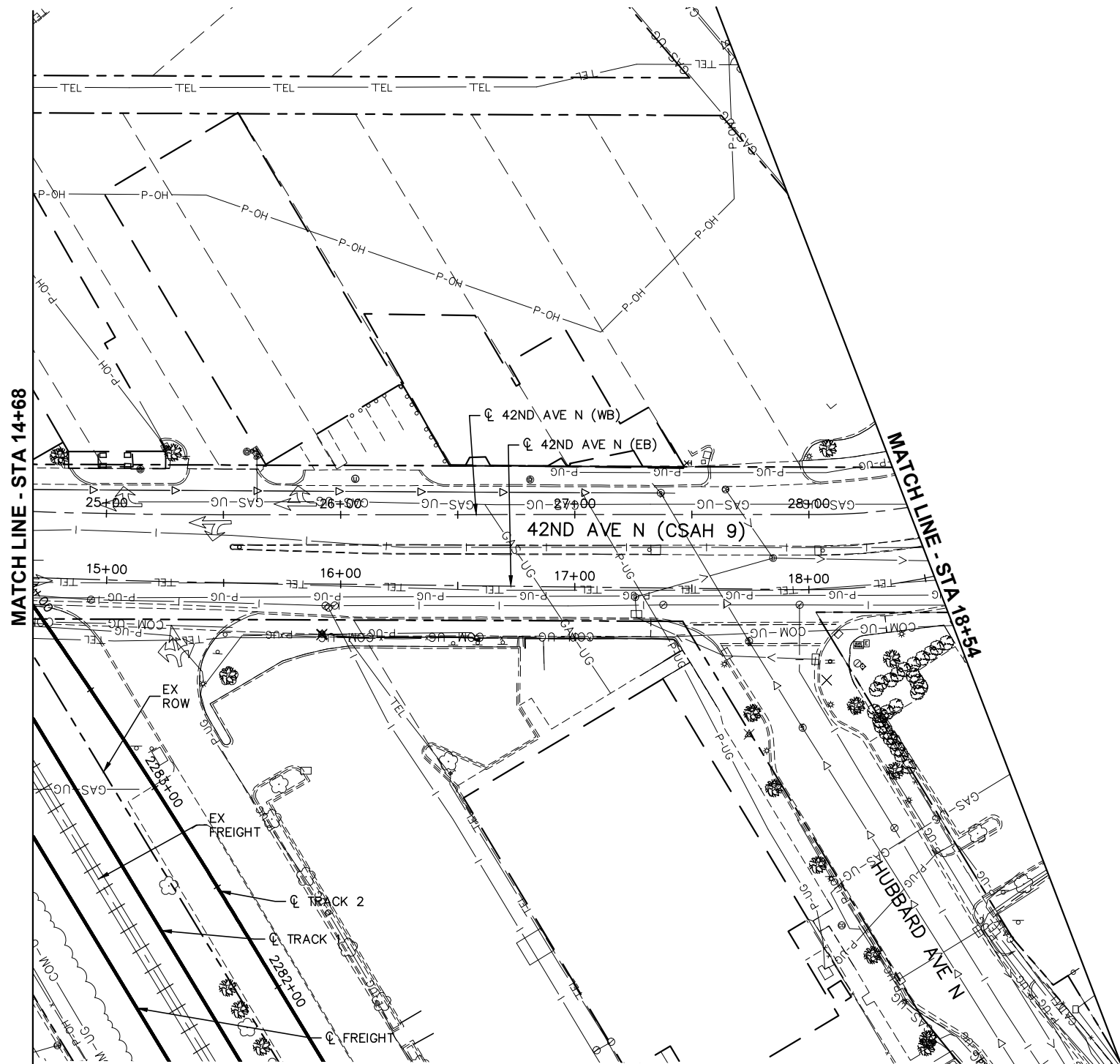
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OF
93

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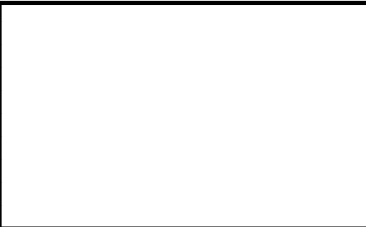
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OF
93

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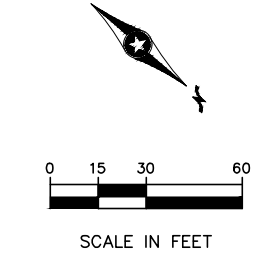
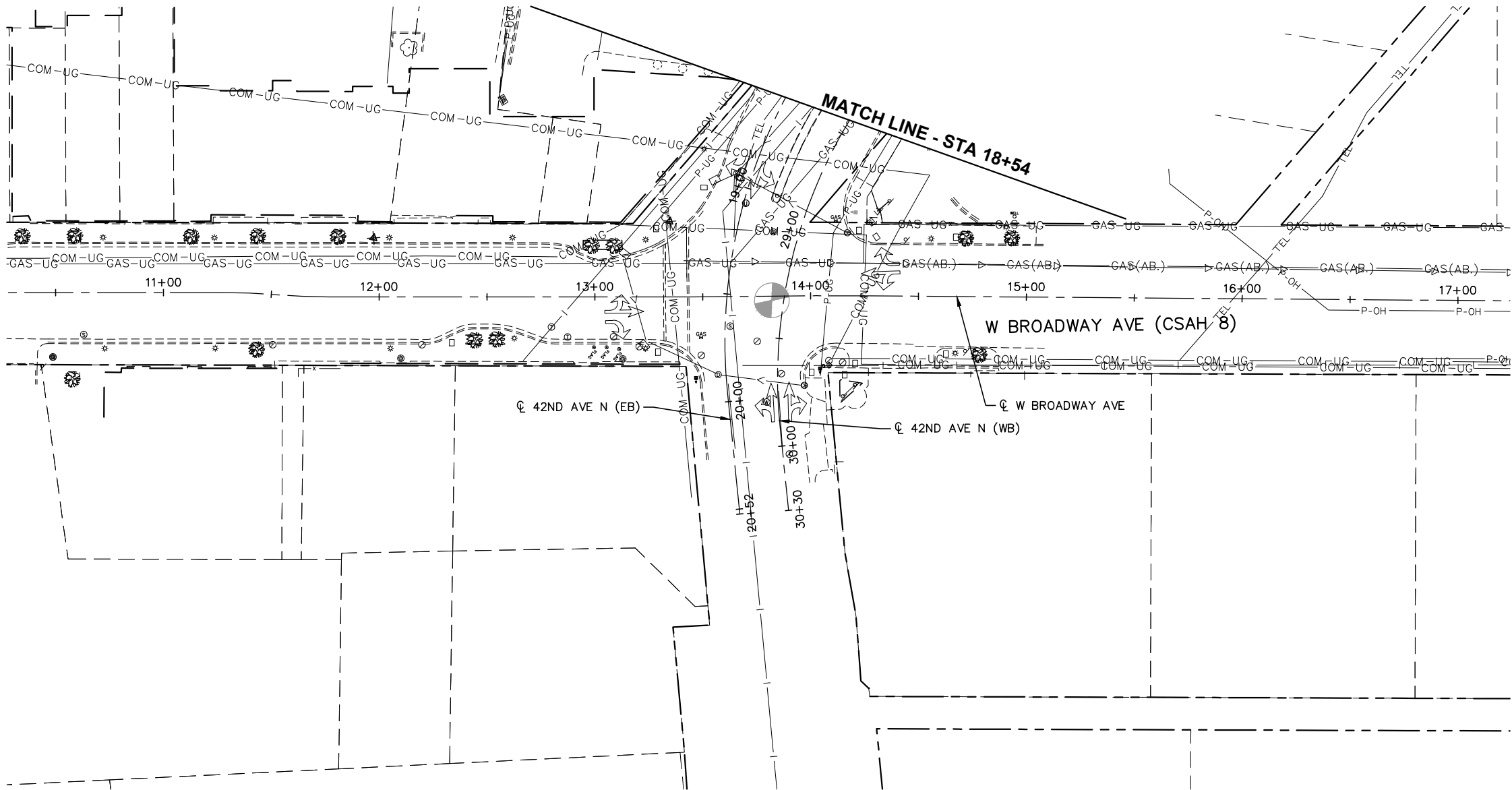
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42ND AVE
EXISTING CONDITIONS
STA 14+68 TO STA 18+54

DISCIPLINE: SURVEY

SHEET NAME: R-EXCON-PLN-026

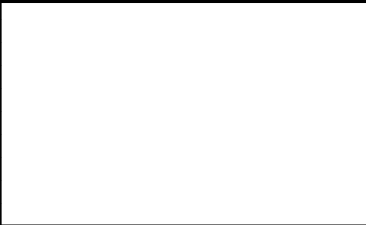
SHEET
30
OF
93

Dec, 07 2015 03:31 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\CIVIL\R-EXCON-PLN.dwg By: Newbauda



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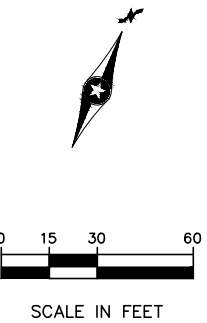
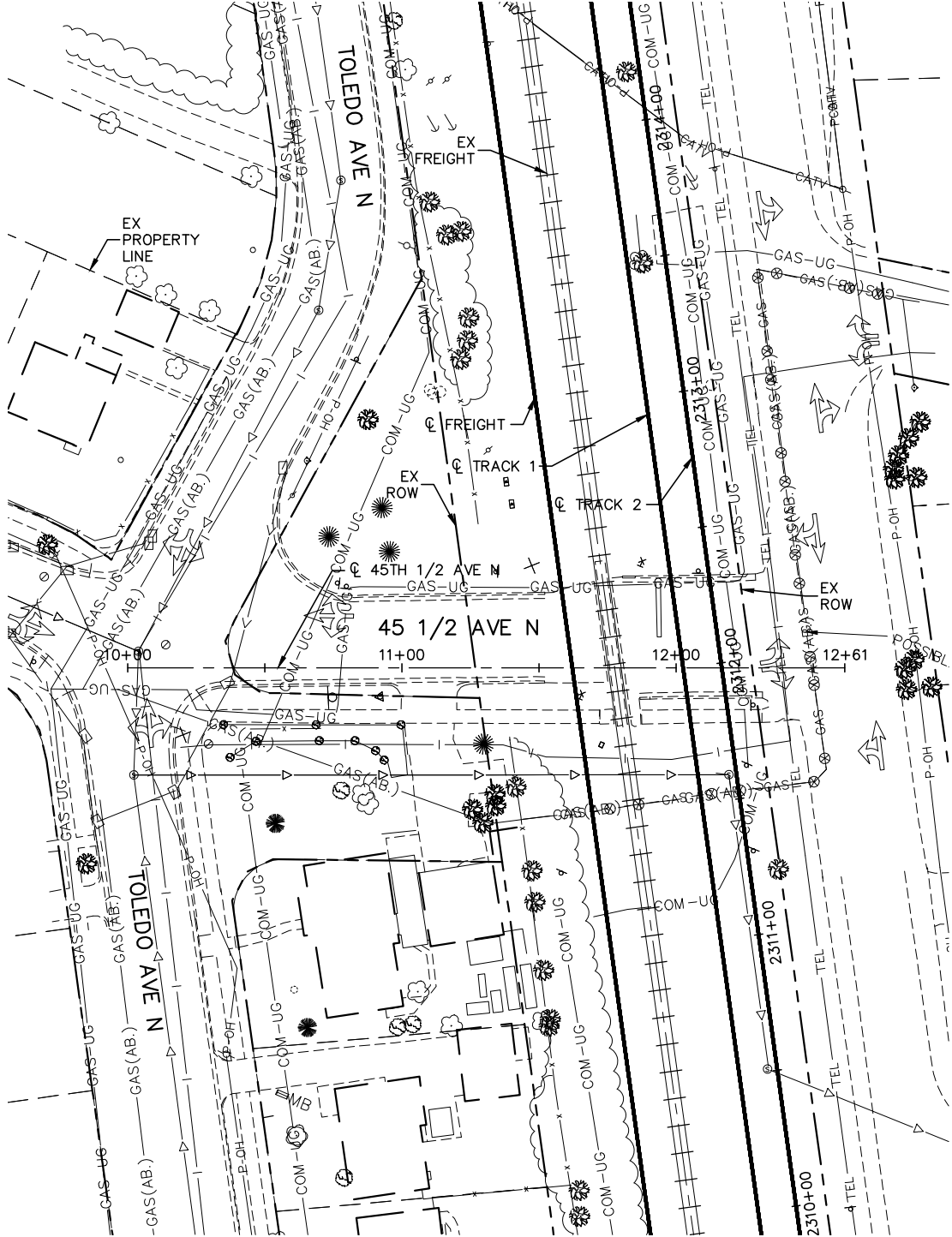
DISCIPLINE: SURVEY

SEGMENT R
W BROADWAY AVE (CSAH 8)
EXISTING CONDITIONS
STA 10+00 TO STA 17+24

SHEET NAME: R-EXCON-PLN-027

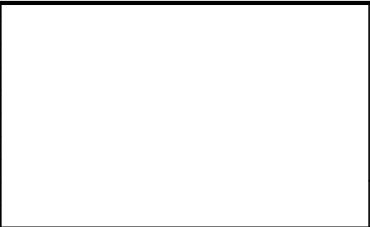
SHEET 31 OF 93

Dec, 07 2015 03:31 pm H: \BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\CIVIL\R-EXCON-PLN.dwg By: Newbauda



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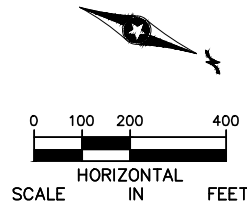
SEGMENT R
45TH 1/2 AVE
EXISTING CONDITIONS
STA 10+00 TO STA 12+61

DISCIPLINE: SURVEY

SHEET NAME: R-EXCON-PLN-028

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OF
93

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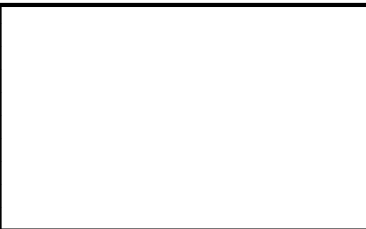


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SEE SHEET 34

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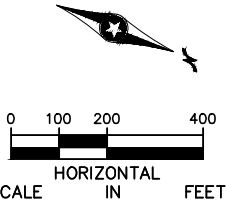
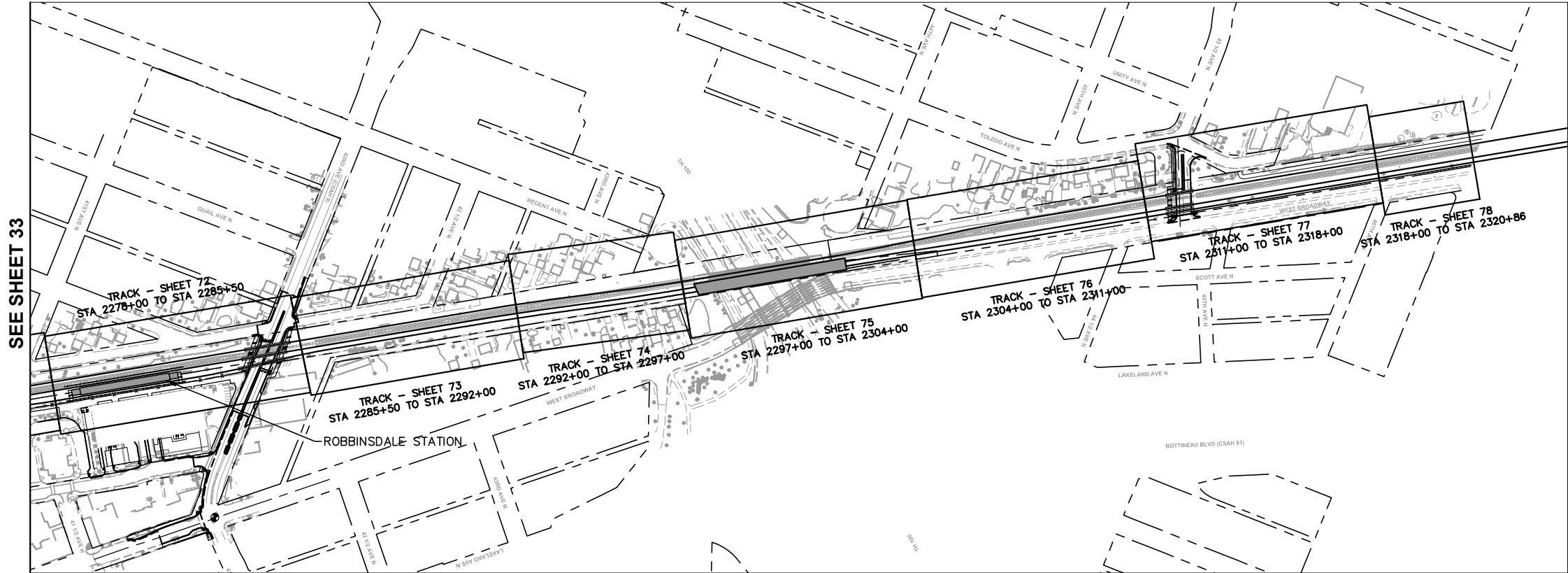


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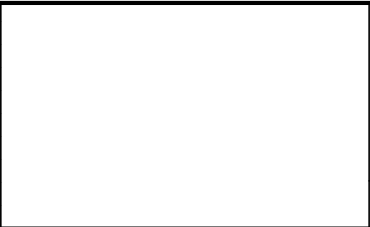
SEGMENT R TRACK SHEET LAYOUT INDEX		SHEET
DISCIPLINE: TRACK	SHEET NAME: R-TRK-IDX-001	33
		OF
		93

DRAFT-WORK IN PROCESS

Dec. 03 2015 02:37 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-IDX.dwg By: V-Prudho





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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DISCIPLINE: TRACK

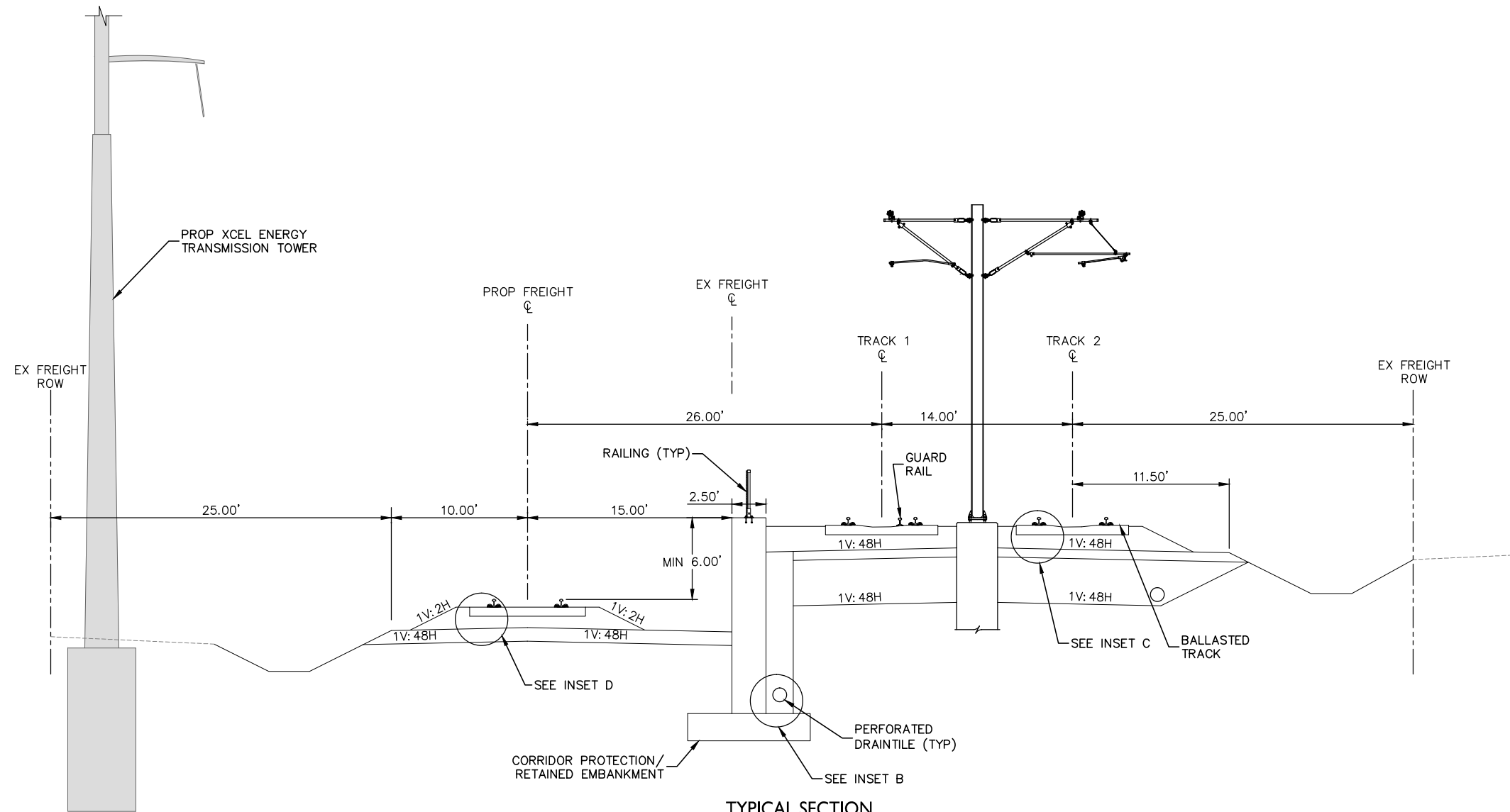
SHEET NAME: R-TRK-IDX-002

SHEET 34 OF 93

DRAFT-WORK IN PROCESS

SEGMENT R
TRACK
SHEET LAYOUT INDEX

Dec, 03 2015 02:38 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYP.dwg By: V-Prudho



TYPICAL SECTION
STA. 2184+88 (BEGINNING OF SEGMENT R) TO 2186+30

- NOTE:
1. FOR INSETS, SEE SHEET 57
 2. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
 3. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
 4. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



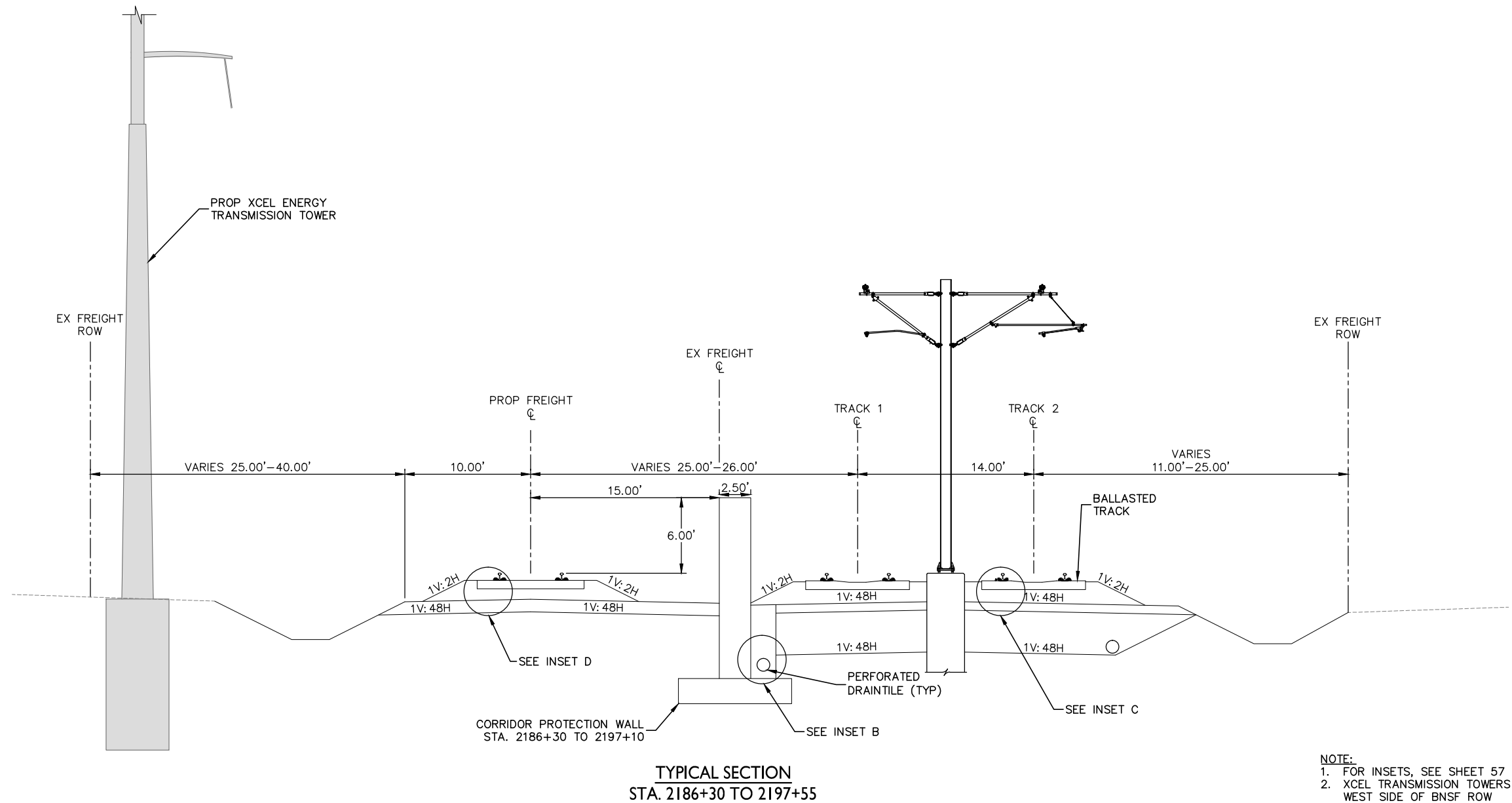
SEGMENT R
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: R-TRK-TYP-001

SHEET
35
OF
93

Dec, 03 2015 02:39 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYP.dwg By: V-Prudho



- NOTE:
1. FOR INSETS, SEE SHEET 57
 2. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
 3. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
 4. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



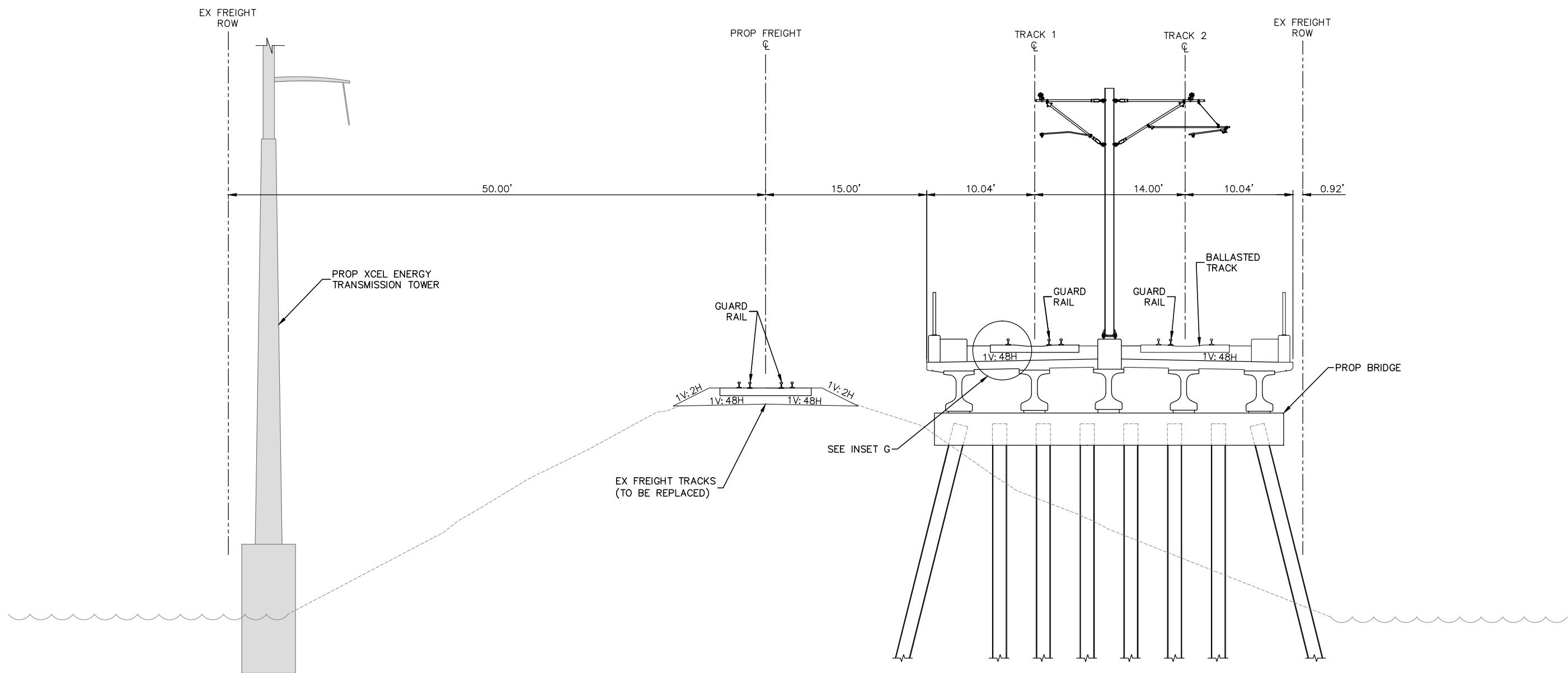
SEGMENT R
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

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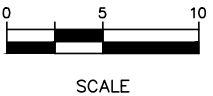
SHEET
36
OF
93

Dec. 03 2015 02:39 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYPS.dwg By: V-Prudho




TYPICAL SECTION
LRT BRIDGE OVER GRIMES POND
STA. 2197+55 TO 2209+76

- NOTE:
- 1. FOR INSETS, SEE SHEET 57
 - 2. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
 - 3. PROPOSED RIGHT-OF-WAY NOT DETERMINED



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



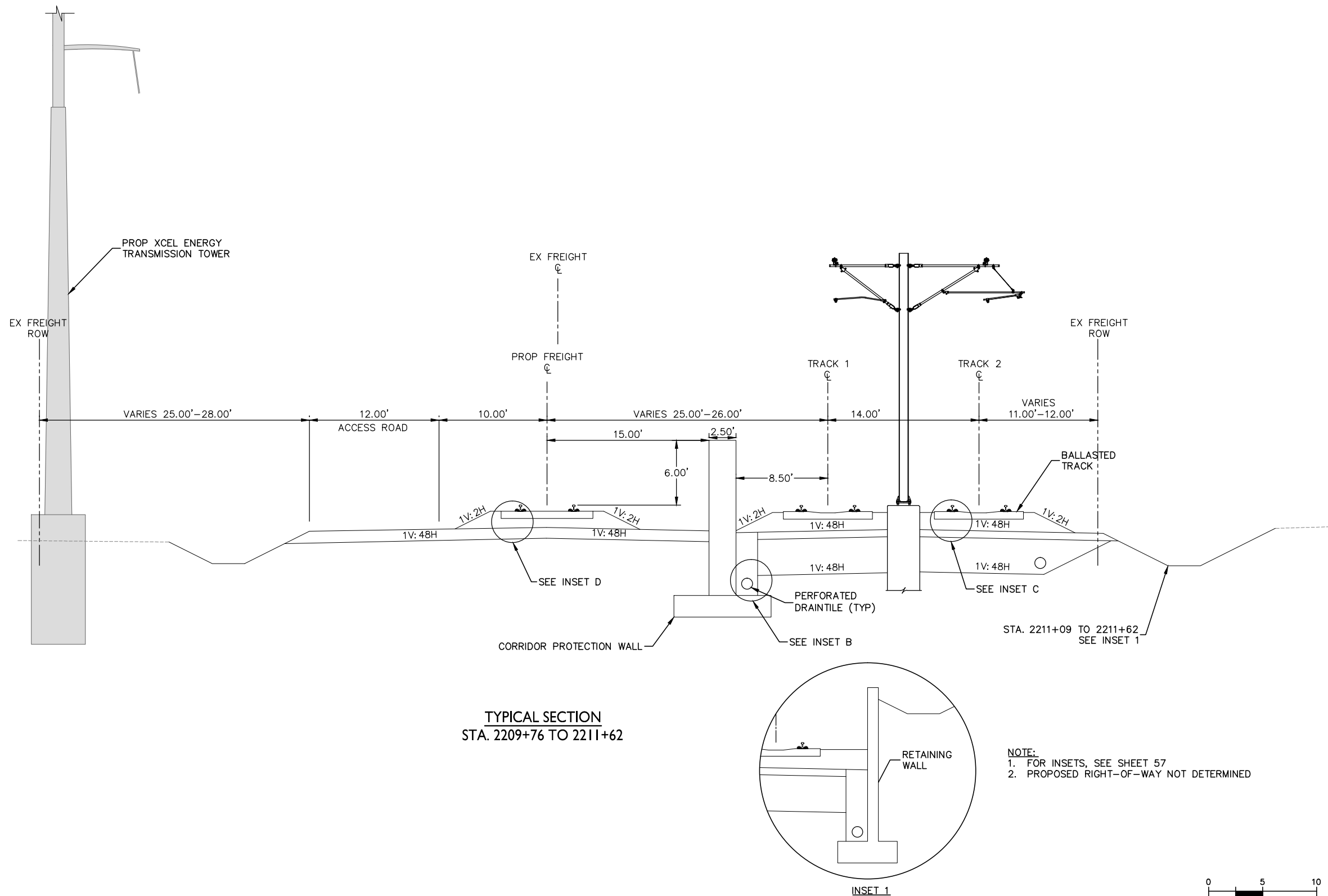
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TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

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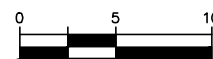
SHEET
37
OF
93

Dec, 03 2015 05:20 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYP.dwg By: V-Prudho



TYPICAL SECTION
STA. 2209+76 TO 2211+62

- NOTE:
1. FOR INSETS, SEE SHEET 57
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn



MUNICIPAL CONSENT



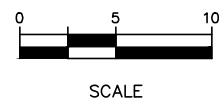
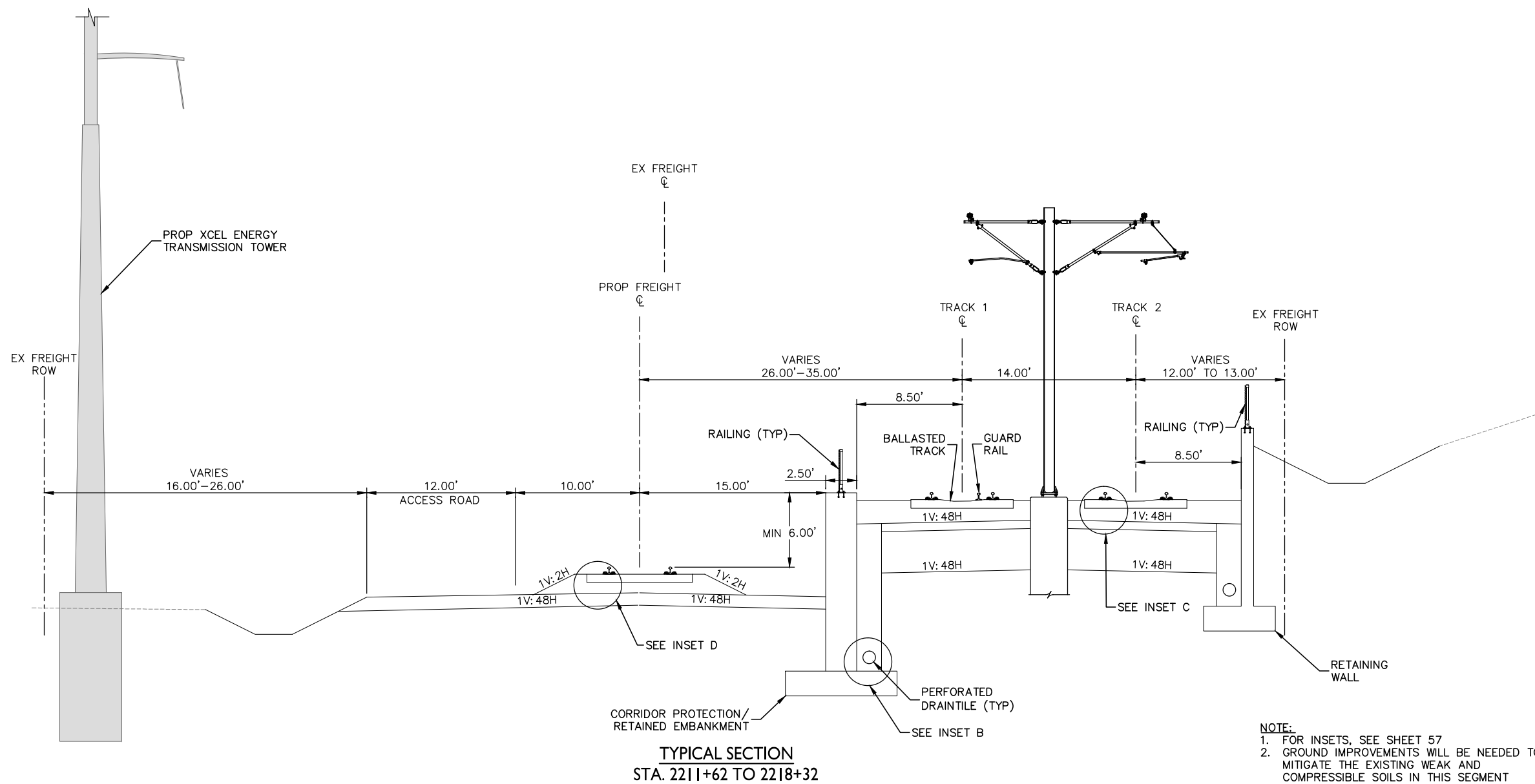
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TRACK
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

SHEET NAME: **R-TRK-TYP-004**

SHEET
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OF
93




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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



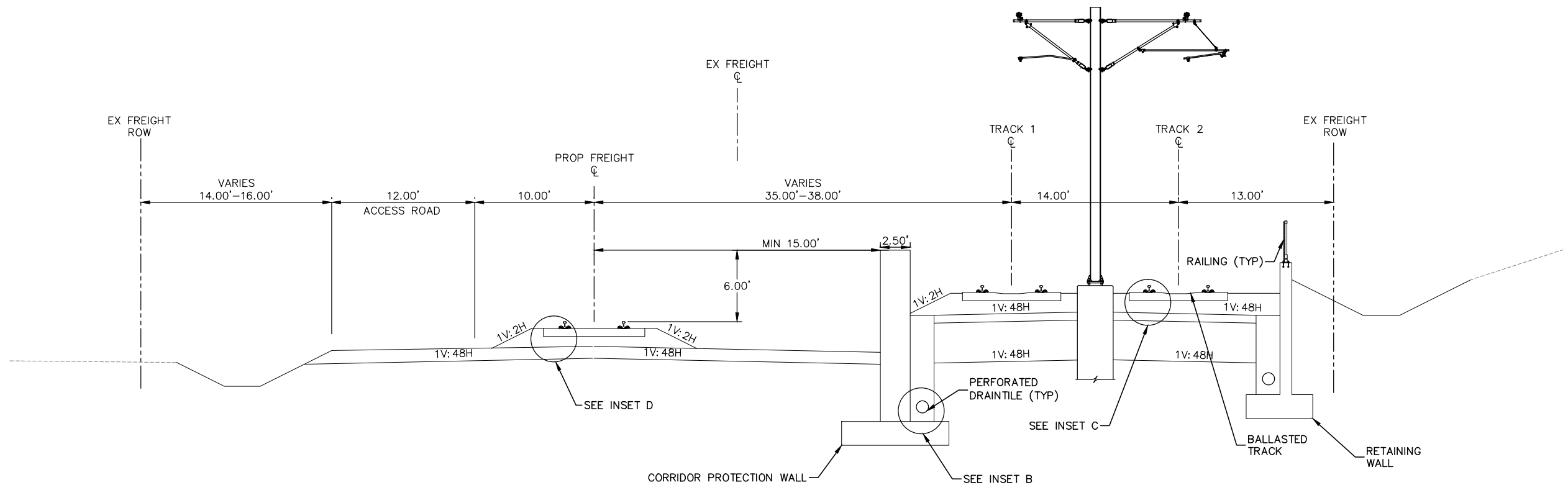
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TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: R-TRK-TYP-005

SHEET 39 OF 93

Dec, 03 2015 02:41 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION
STA. 2218+32 TO 2219+29

- NOTE:
1. FOR INSETS, SEE SHEET 57
 2. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
 3. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



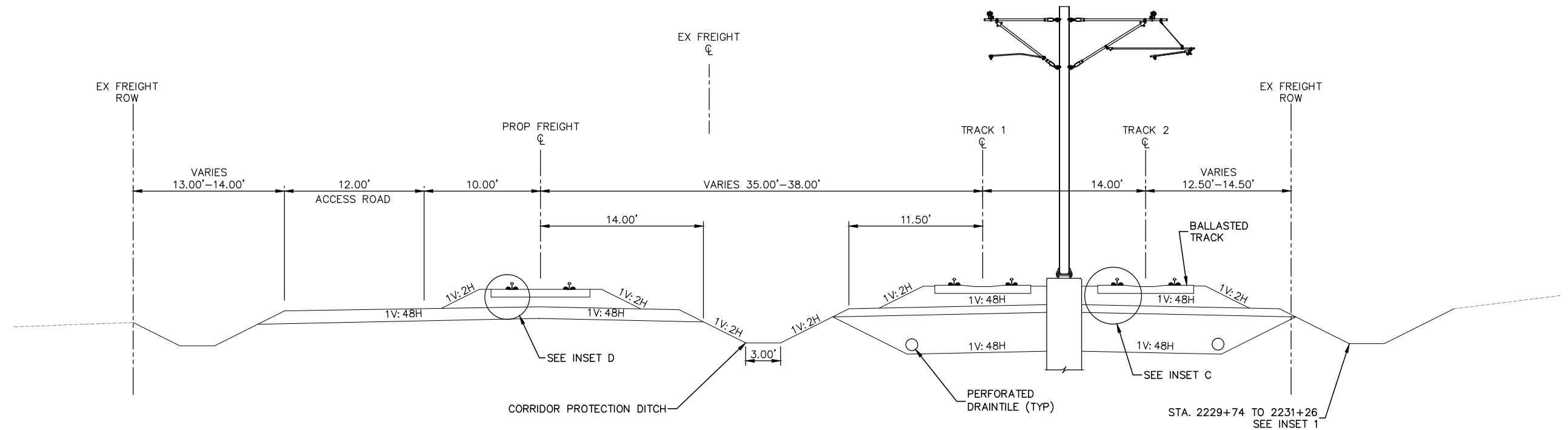
SEGMENT R
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

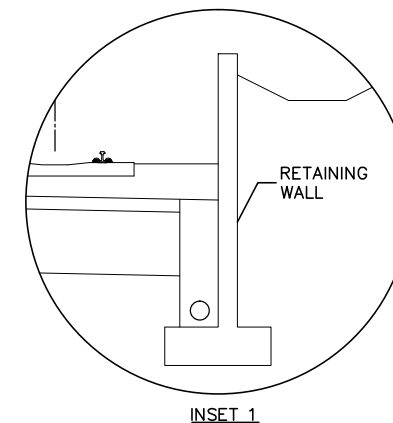
SHEET NAME: R-TRK-TYPS-006

SHEET
40
OF
93

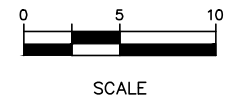
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TYPICAL SECTION
STA. 2219+29 TO 2231+26

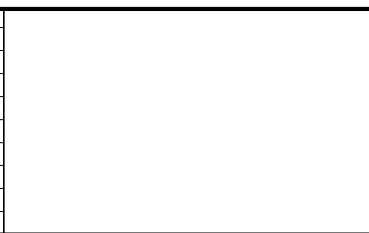





- NOTE:
1. FOR INSETS, SEE SHEET 57
 2. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
 3. PROPOSED RIGHT-OF-WAY NOT DETERMINED





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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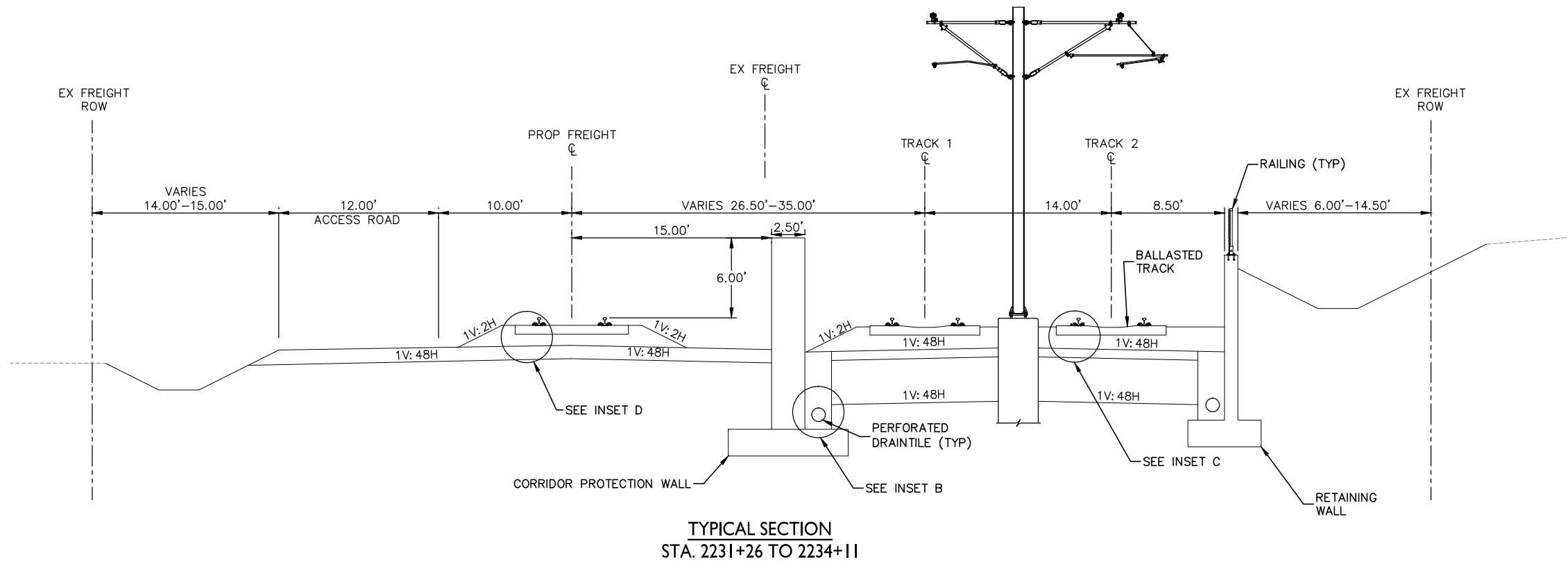
SEGMENT R
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: R-TRK-TYPS-007

SHEET
41
OF
93

Dec, 03 2015 02:42 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYP.dwg By: V-Prudho



- NOTE:
1. FOR INSETS, SEE SHEET 57
 2. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
 3. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



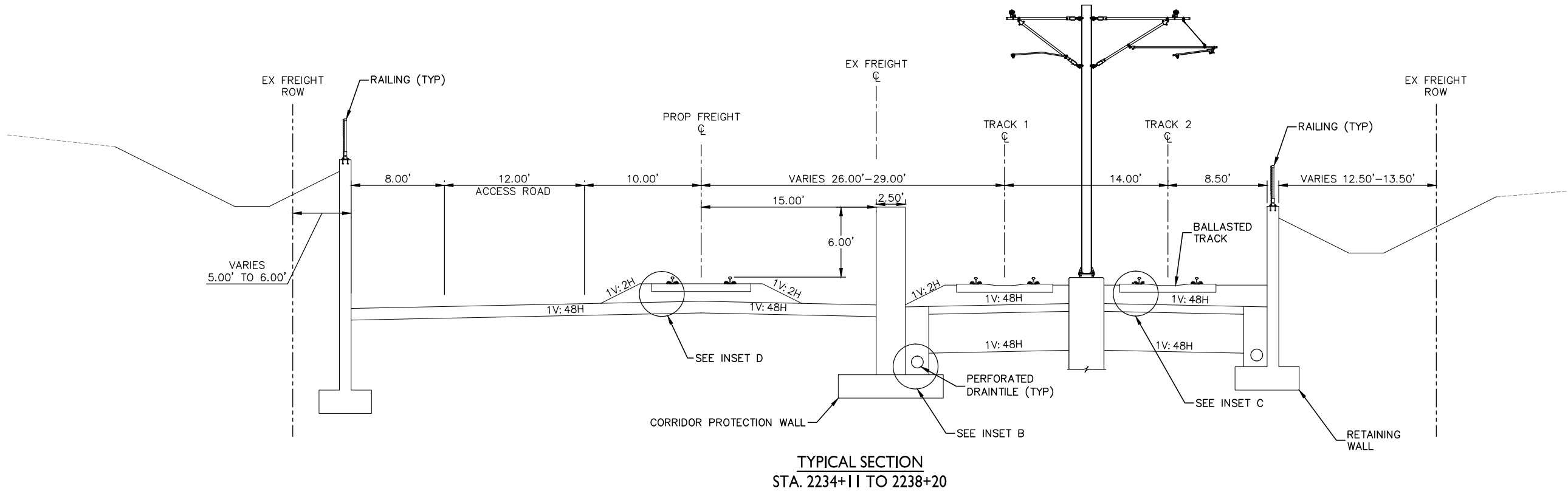
SEGMENT R
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: R-TRK-TYP-008

SHEET
42
OF
93

Dec, 03 2015 02:42 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYP.dwg By: V-Prudho



NOTE:
1. FOR INSETS, SEE SHEET 57
2. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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SEGMENT R
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: R-TRK-TYP-009




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43
OF
93

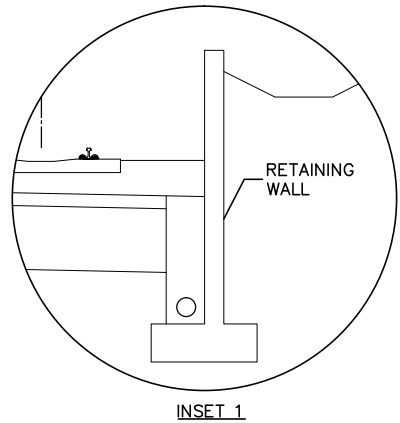
NOTE:

1. FOR INSETS, SEE SHEET 57
2. OCS NOT DEPICTED
3. PROPOSED RIGHT-OF-WAY NOT DETERMINED



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	<div><div><div><div>MUNICIPAL CONSENT</div></div></div></div>	<div><div></div></div>	<div>SEGMENT R TRACK TYPICAL SECTIONS</div>		SHEET 44 OF 93
DISCIPLINE: TRACK		SHEET NAME: R-TRK-TYPS-010								



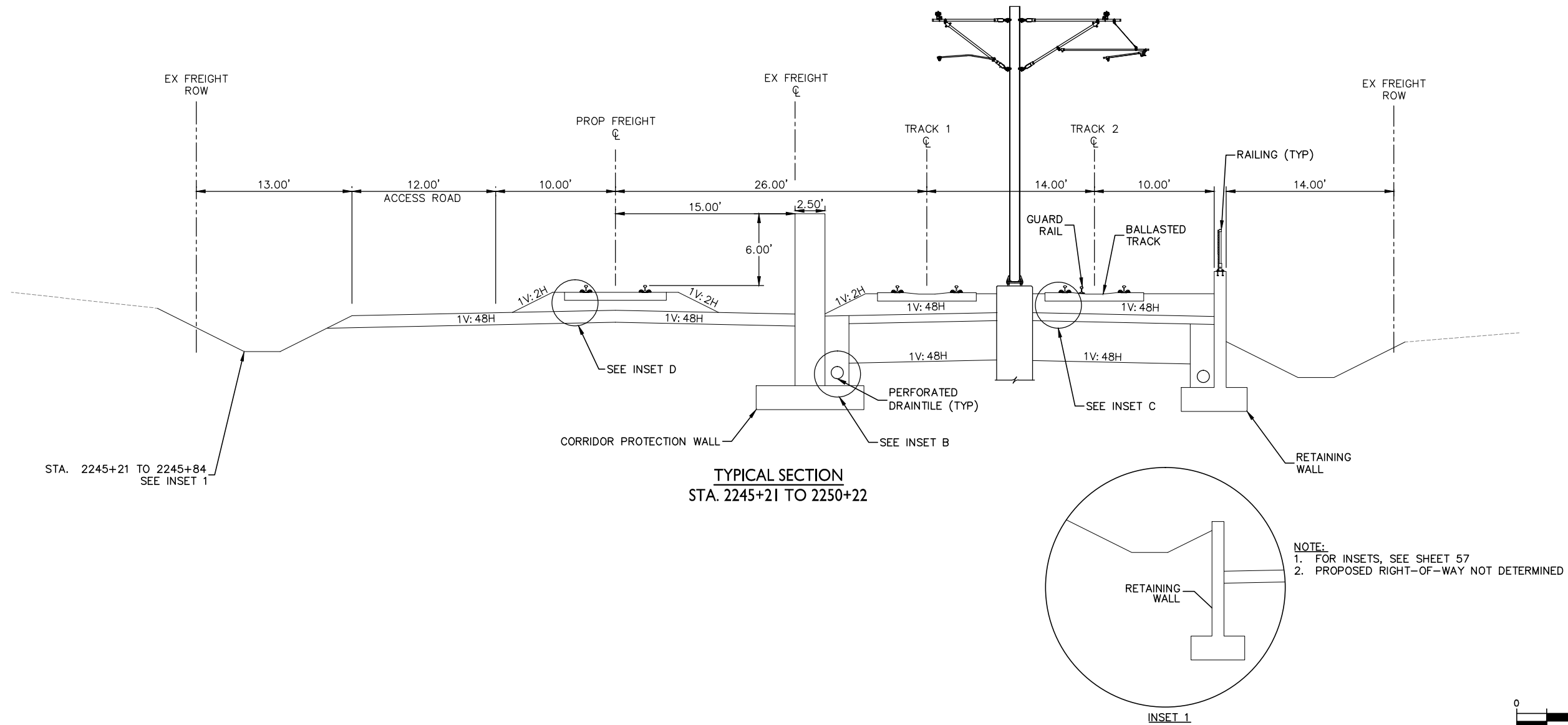
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SCALE

SEGMENT R	
TRACK	
TYPICAL SECTIONS	
DISCIPLINE:	TRACK
SHEET NAME:	R-TRK-TYPS-011



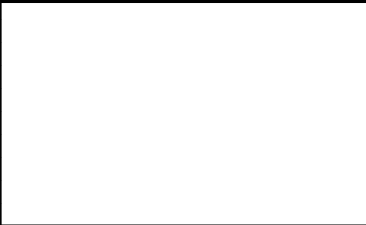
Dec, 03 2015 02:44 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION
STA. 2245+21 TO 2250+22

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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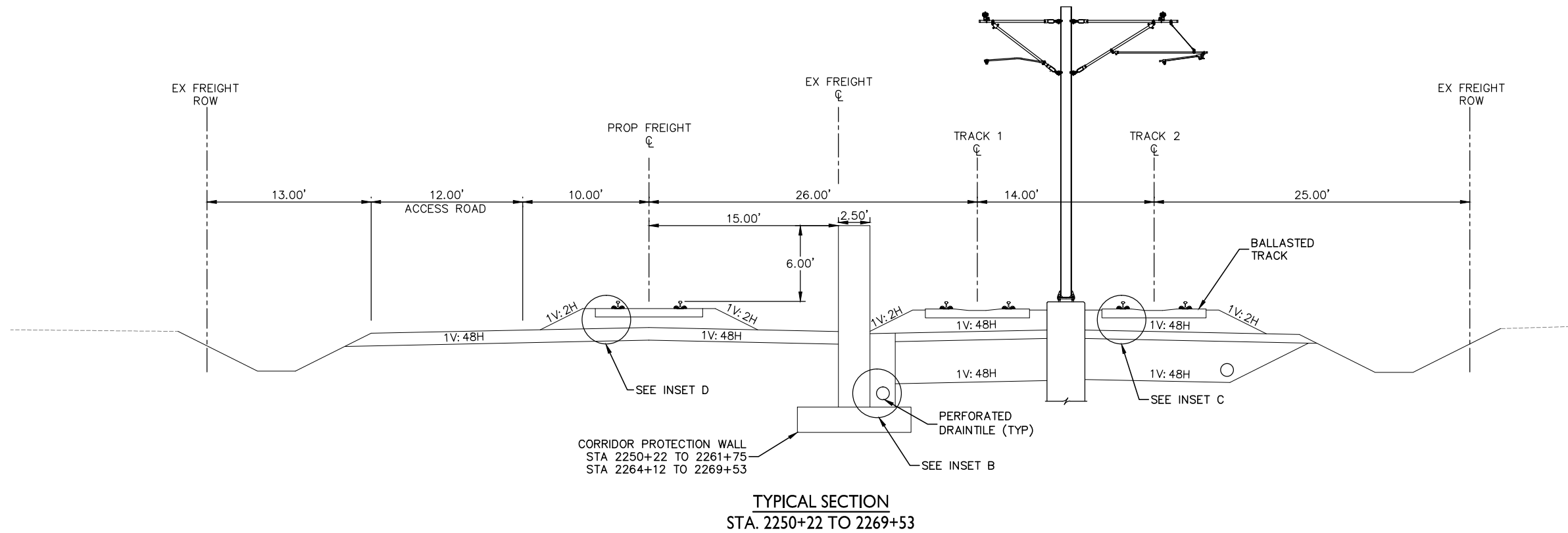


SEGMENT R
TRACK
TYPICAL SECTIONS

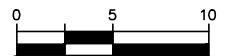
DISCIPLINE: TRACK

SHEET NAME: R-TRK-TYPS-012

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- NOTE:
1. FOR INSETS, SEE SHEET 57
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. LIMITS OF SECTION INCLUDE AT-GRADE CROSSINGS THAT ARE NOT DEPICTED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



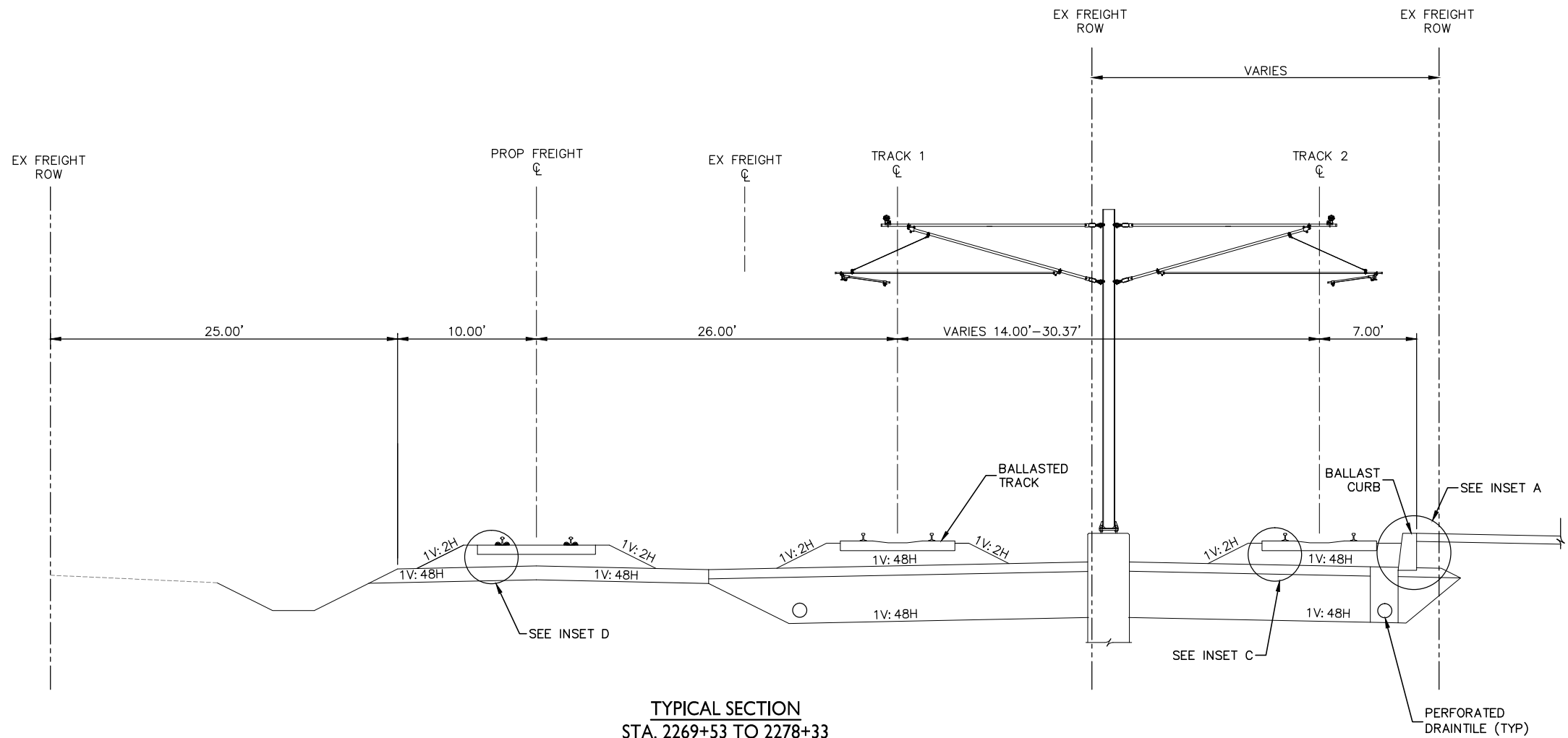
SEGMENT R
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: R-TRK-TYP-013

SHEET
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OF
93

Dec, 03 2015 02:45 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYP.dwg By: V-Prudho



TYPICAL SECTION
STA. 2269+53 TO 2278+33

- NOTE:
1. FOR INSETS, SEE SHEET 57
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. LIMITS OF SECTION INCLUDE AT-GRADE CROSSINGS THAT ARE NOT DEPICTED
 4. ACCESS ROAD NOT SHOWN STA. 2269+53 TO 2270+45




SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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SEGMENT R
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: R-TRK-TYP-014

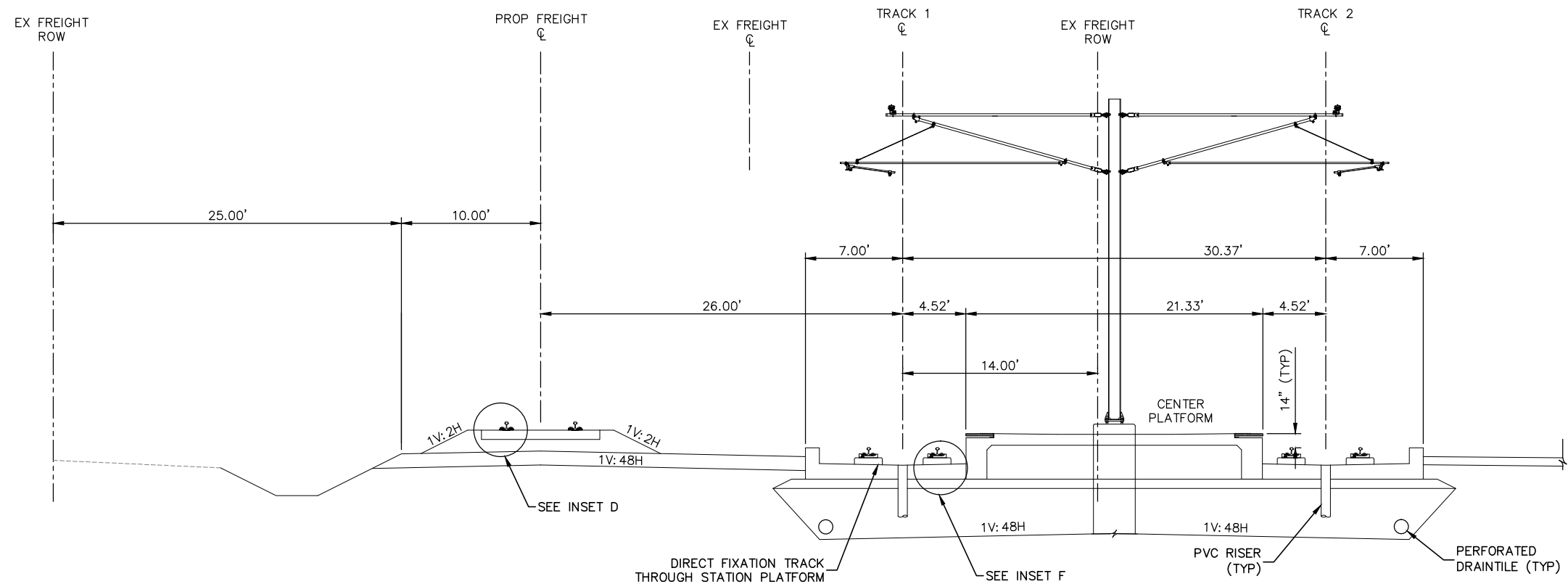
SHEET

48

OF

93

Dec, 03 2015 02:46 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYP.dwg By: V-Prudho



TYPICAL SECTION
ROBBINSDALE STATION
STA. 2278+33 to 2281+93

NOTE:
1. FOR INSETS, SEE SHEET 57
2. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn



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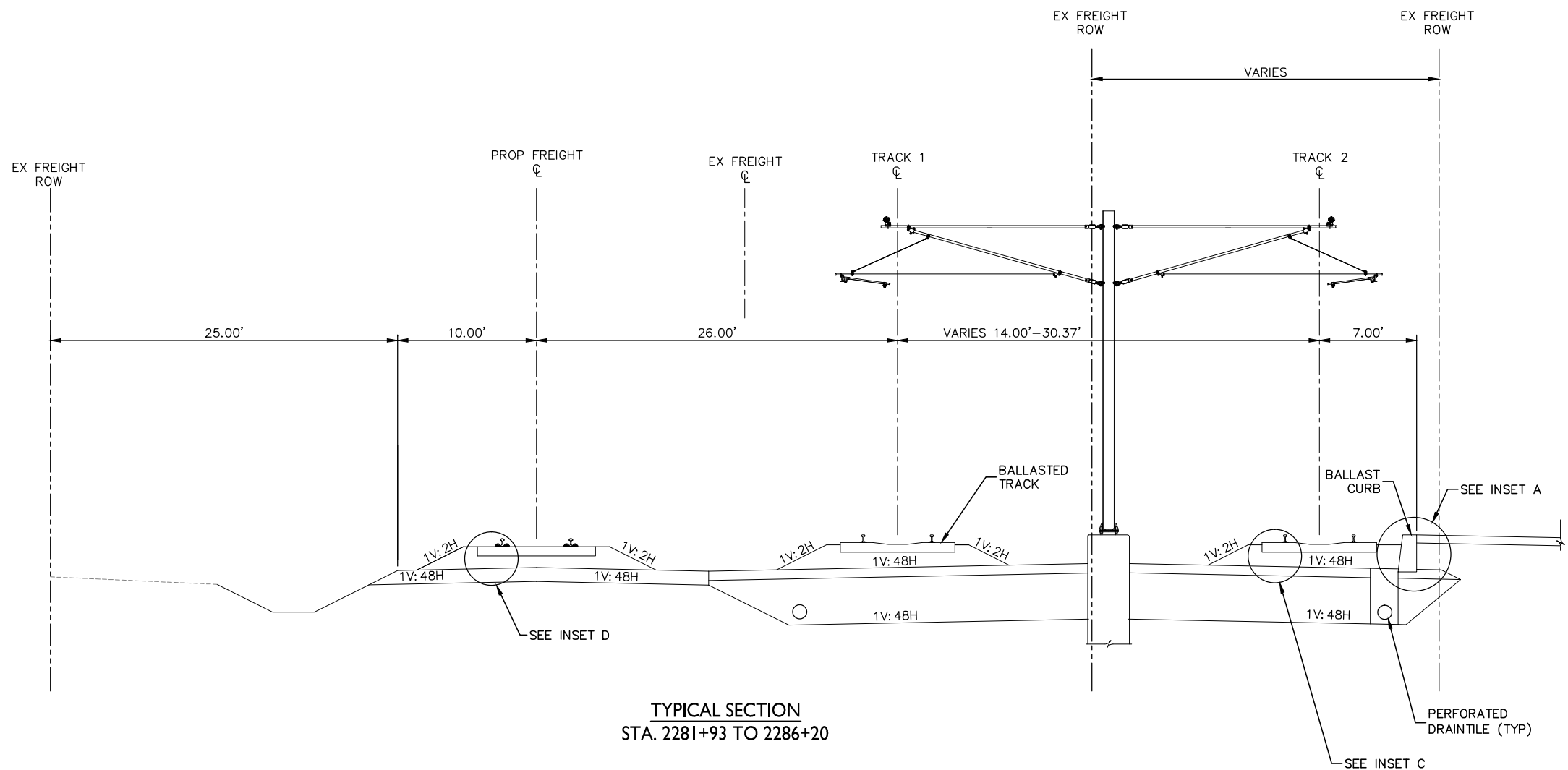
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TRACK
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

SHEET NAME: **R-TRK-TYP-015**

SHEET
49
OF
93

Dec, 03 2015 02:46 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYP.dwg By: V-Prudho



TYPICAL SECTION
STA. 2281+93 TO 2286+20




NOTE:
1. FOR INSETS, SEE SHEET 57
2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
3. LIMITS OF SECTION INCLUDE AT-GRADE CROSSINGS THAT ARE NOT DEPICTED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



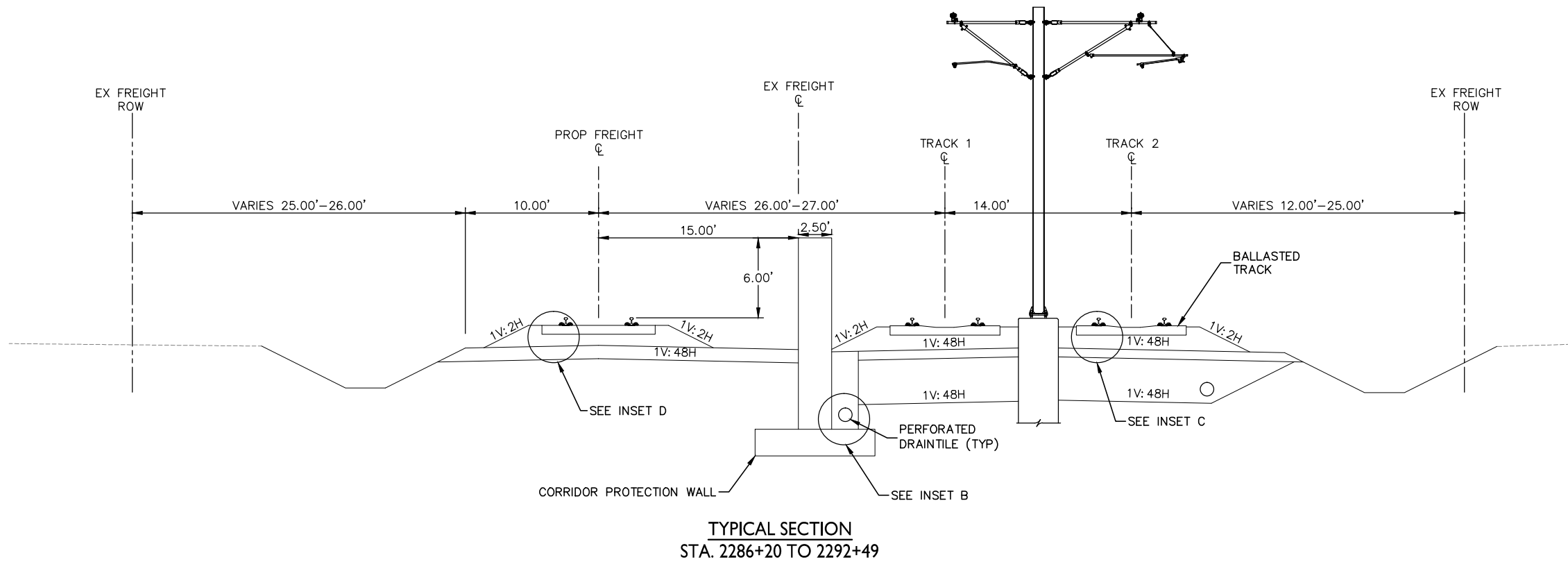
SEGMENT R
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: R-TRK-TYP-016

SHEET
50
OF
93

Dec, 03 2015 02:47 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYP.dwg By: V-Prudho



NOTE:
1. FOR INSETS, SEE SHEET 57
2. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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**SEGMENT R
TRACK
TYPICAL SECTIONS**

DISCIPLINE: TRACK

SHEET NAME: R-TRK-TYP-017

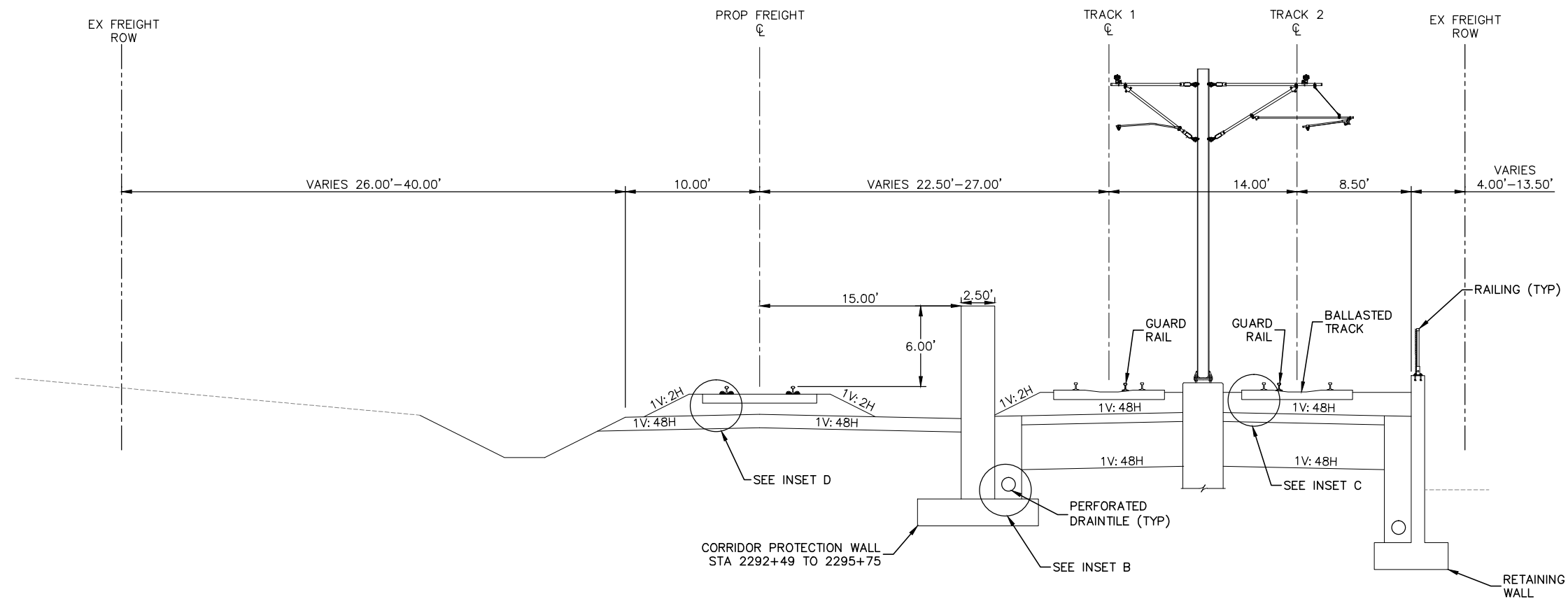
SHEET

51

OF

93

Dec. 03 2015 02:47 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION
STA. 2292+49 TO 2297+41

NOTE:
1. FOR INSETS, SEE SHEET 57
2. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



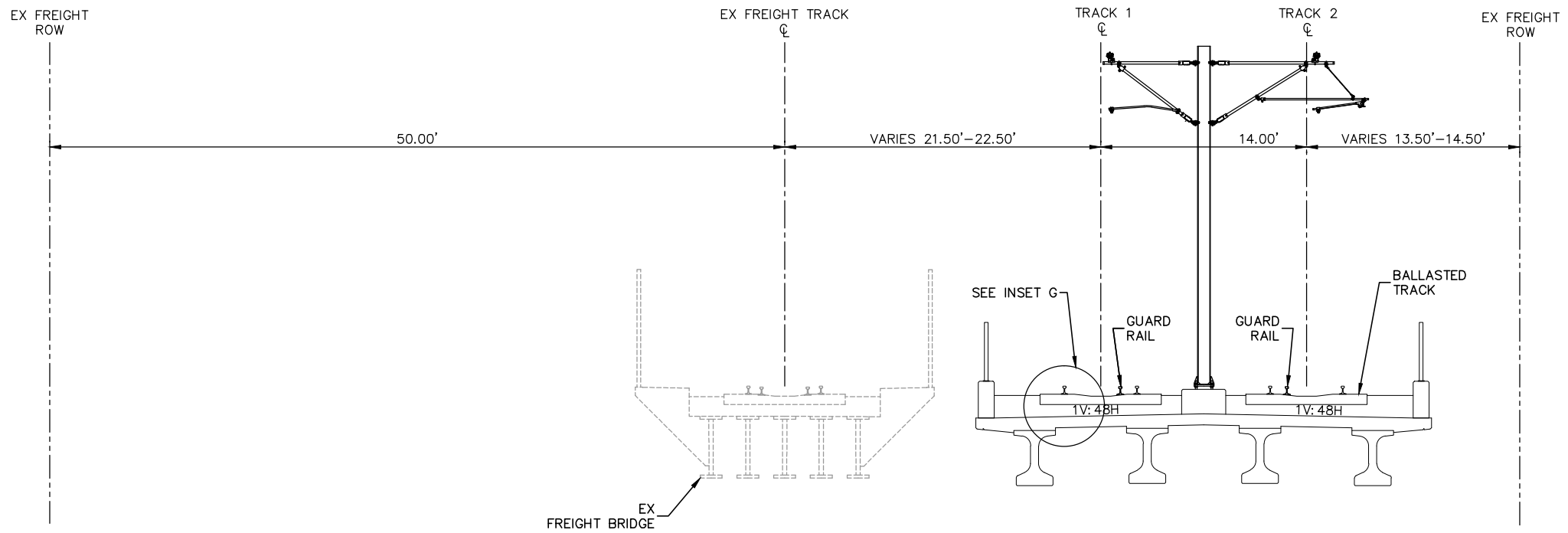
SEGMENT R
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: R-TRK-TYPS-018

SHEET
52
OF
93

Dec, 03 2015 02:48 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYP.dwg By: V-Prudho



TYPICAL SECTION
BRIDGE OVER TH-100
STA. 2297+41 TO 2301+91

NOTE:
1. FOR INSETS, SEE SHEET 57
2. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



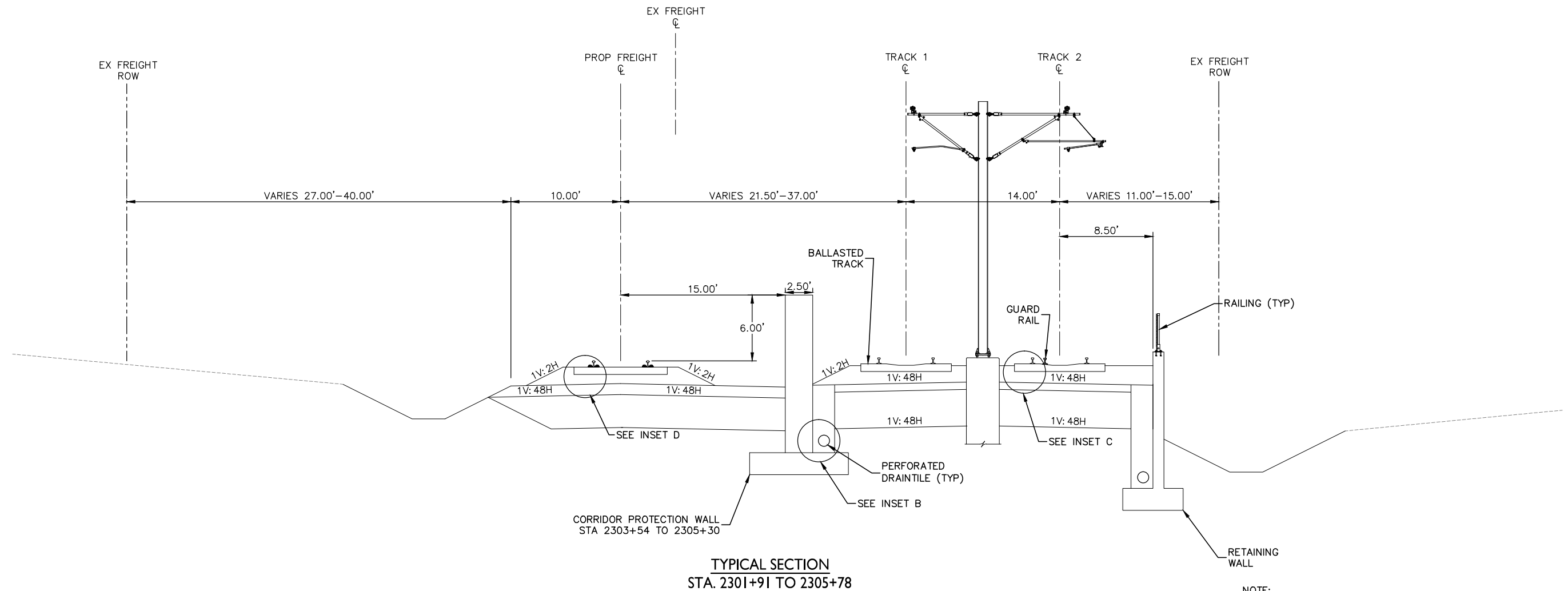
SEGMENT R
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

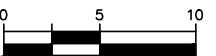
SHEET NAME: R-TRK-TYP-019

SHEET
53
OF
93

Dec, 03 2015 02:48 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYPS.dwg By: V-Prudho



NOTE:
1. FOR INSETS, SEE SHEET 57
2. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn



MUNICIPAL CONSENT



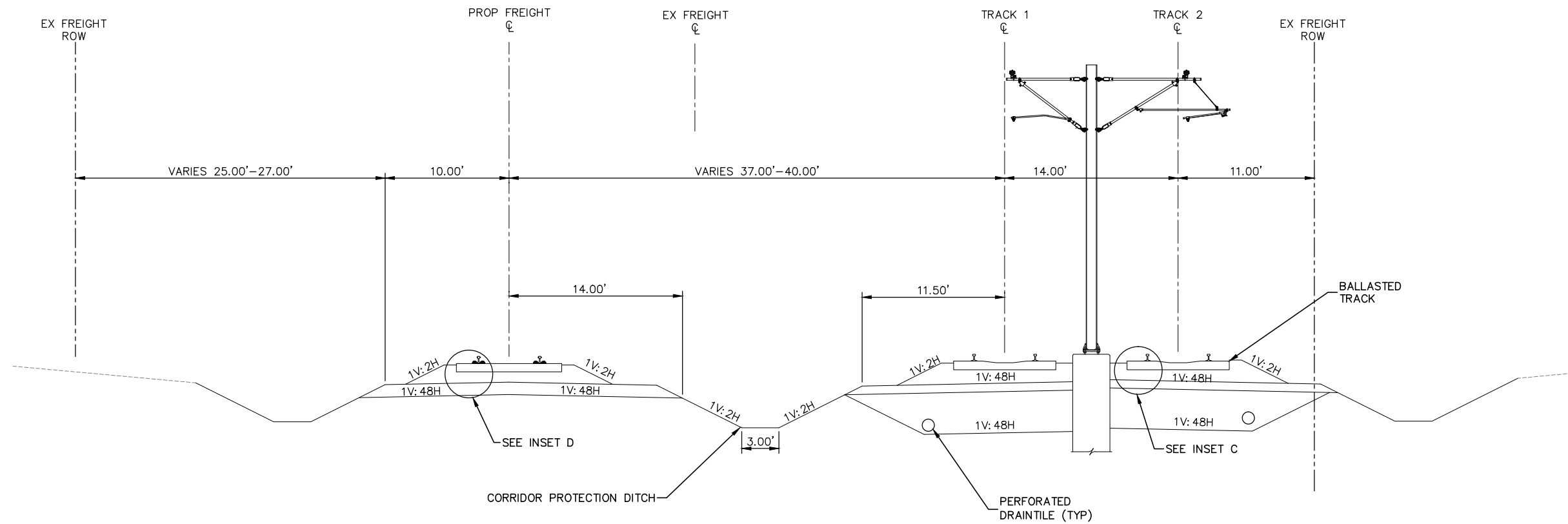
**SEGMENT R
TRACK
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

SHEET NAME: **R-TRK-TYPS-020**

**SHEET
54
OF
93**

Dec, 07 2015 10:34 am H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION
STA. 2305+78 TO 2313+87

- NOTE:
1. FOR INSETS, SEE SHEET 57
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. LIMITS OF SECTION INCLUDE AT-GRADE CROSSINGS THAT ARE NOT DEPICTED
 4. BALLAST CURB NOT SHOWN STA. 2312+34 TO 2313+87



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



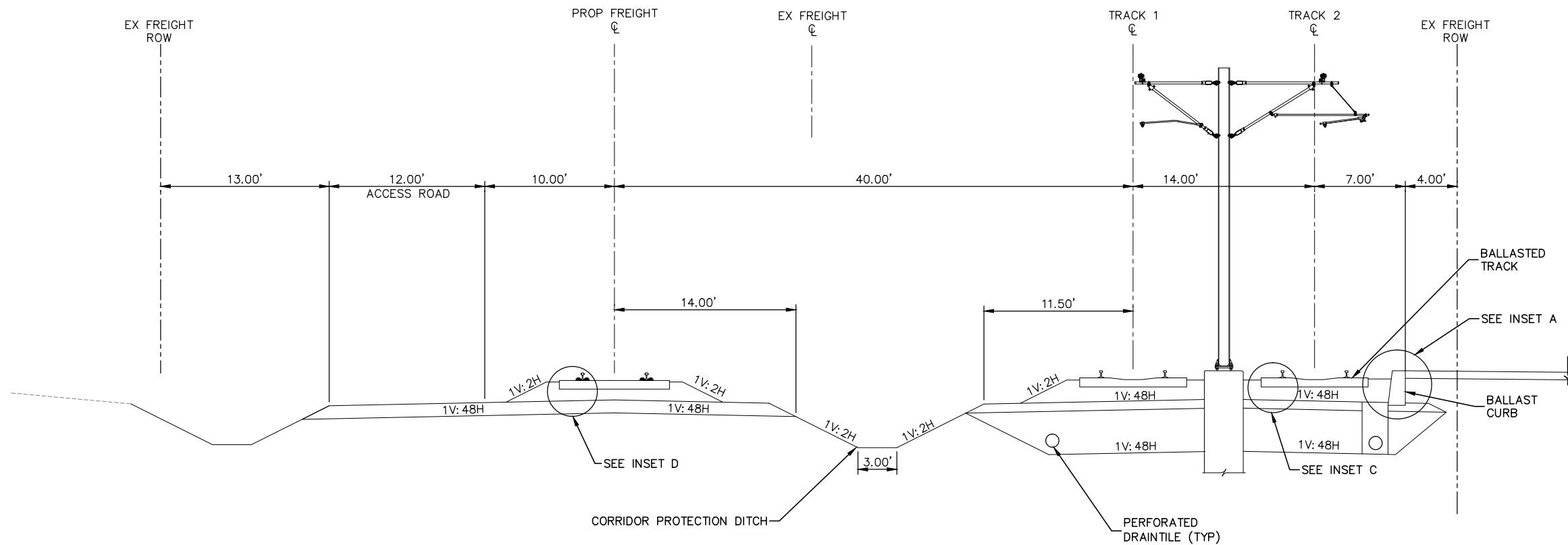
SEGMENT R
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: R-TRK-TYPS-021

SHEET
55
OF
93

Dec, 03 2015 02:49 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYP.dwg By: V-Prudho



TYPICAL SECTION
STA. 2313+87 TO 2320+86 (SEGMENT R END)

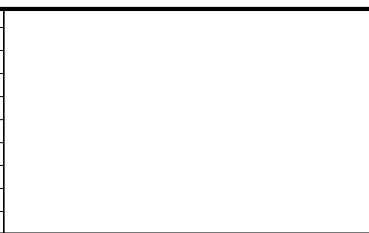
NOTE:
1. FOR INSETS, SEE SHEET 57
2. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

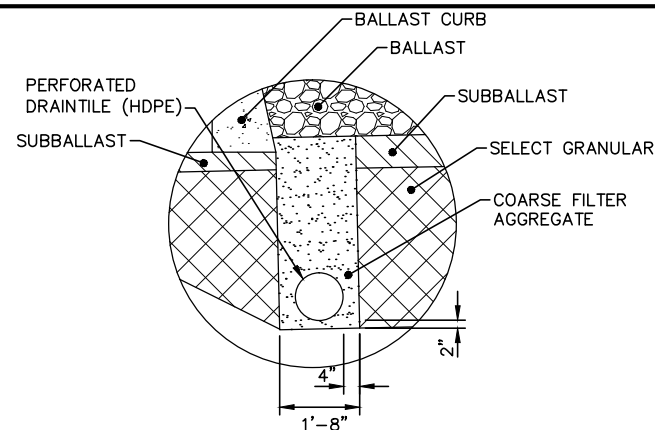


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SEGMENT R TRACK TYPICAL SECTIONS	
DISCIPLINE: TRACK	SHEET NAME: R-TRK-TYP-022

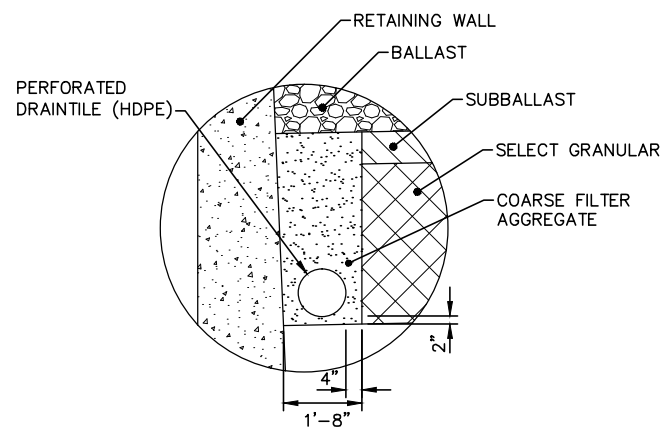
SHEET
56
OF
93

Dec. 03 2015 02:50 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-TYPS.dwg By: V-Prudho



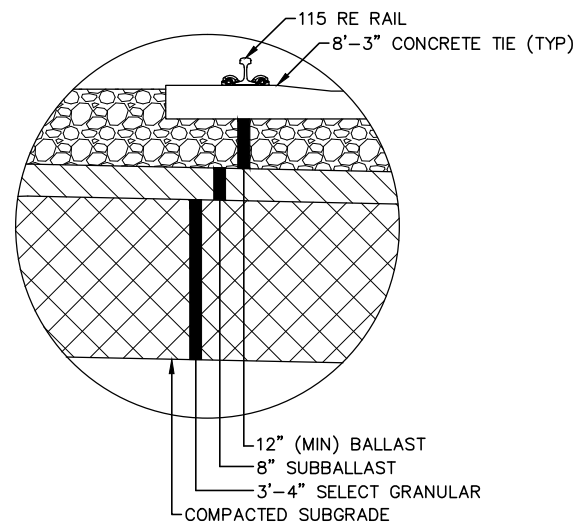
INSET A – BALLAST CURB INTERFACE

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

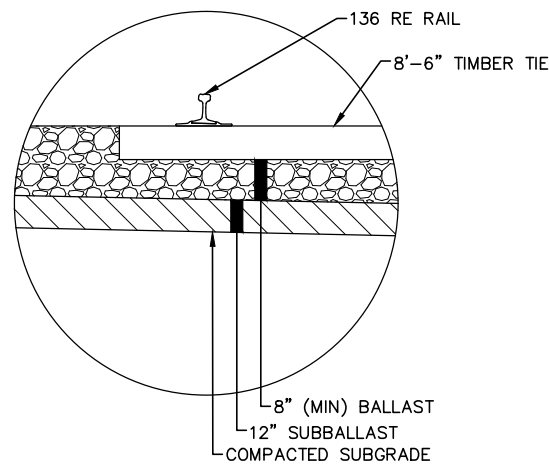


INSET B – RETAINING WALL INTERFACE

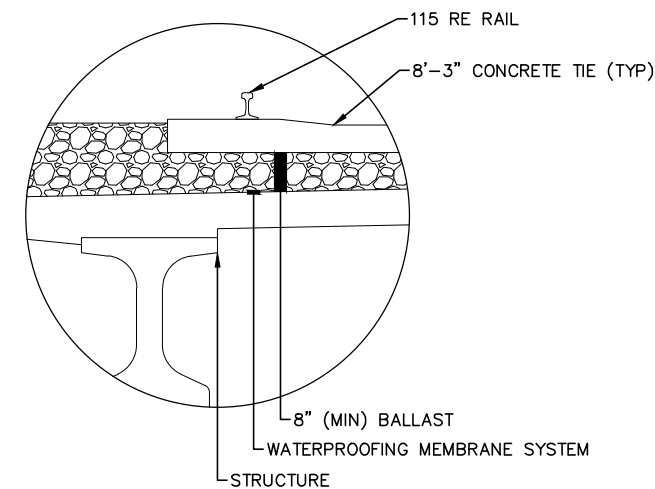
NOTE: LEFT SIDE DRAINAGE TRENCH ILLUSTRATED.
FOR RIGHT SIDE, MIRROR SECTION.



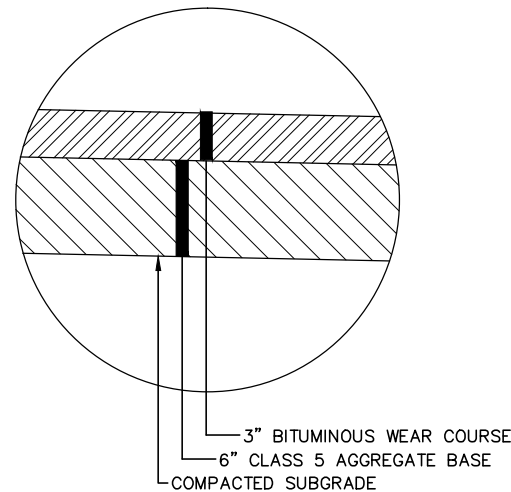
INSET C – TYPICAL BALLASTED TRACK



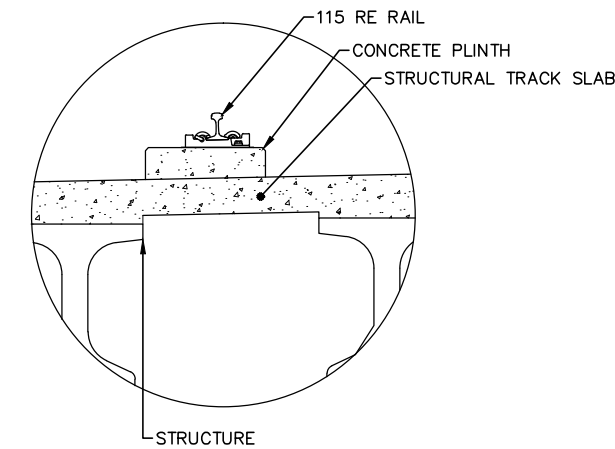
INSET D – TYPICAL BALLASTED FREIGHT TRACK



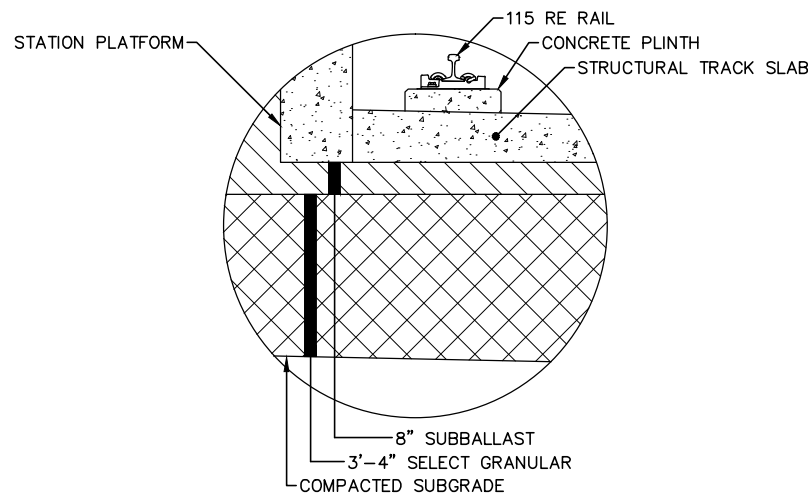
INSET G – BALLASTED LRT TRACK ON STRUCTURE



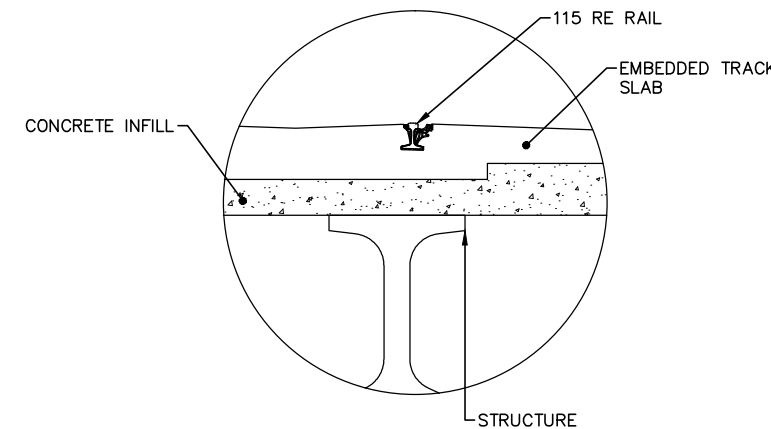
INSET E – TYPICAL TRAIL



INSET H – DIRECT FIXATION LRT TRACK ON
STRUCTURE



INSET F – TYPICAL DIRECT FIXATION INTERFACE
AT STATION PLATFORM



INSET I – EMBEDDED LRT TRACK ON STRUCTURE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT

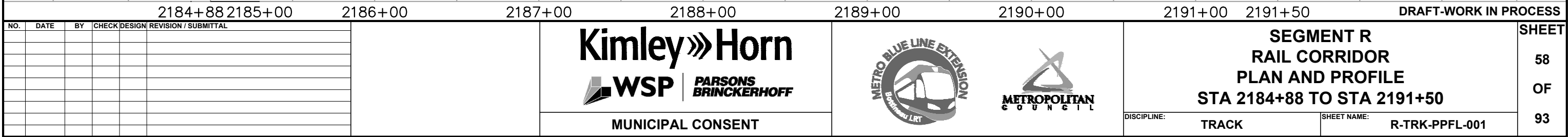


SEGMENT R
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: R-TRK-TYPS-023

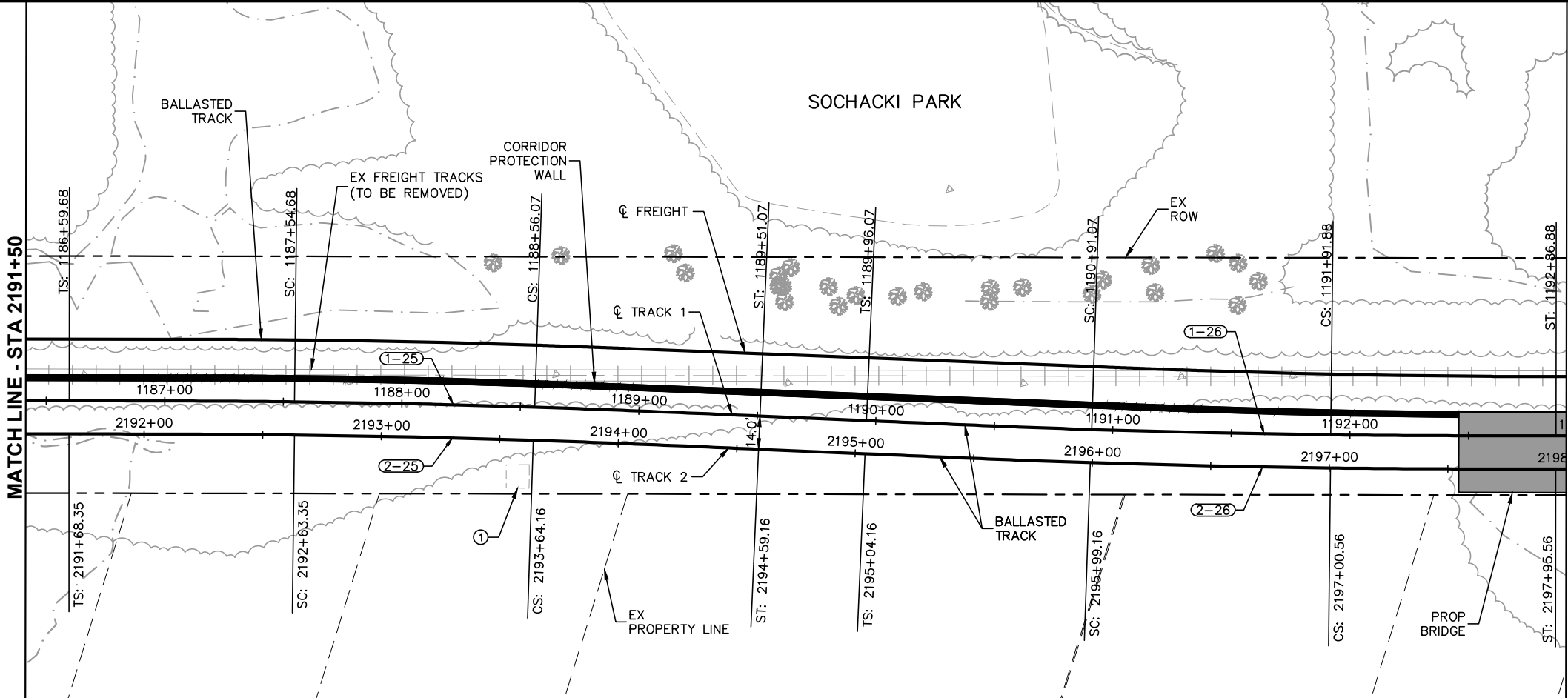
SHEET
57
OF
93



Dec, 03 2015 02:59 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-PPFL.dwg By: V-Prudho

CURVE NO 1-25	
R =	4714.00'
Lc =	101.39'
Ls =	95.00'
Ea =	1.00"
Eu =	1.54"
Vd =	55 MPH

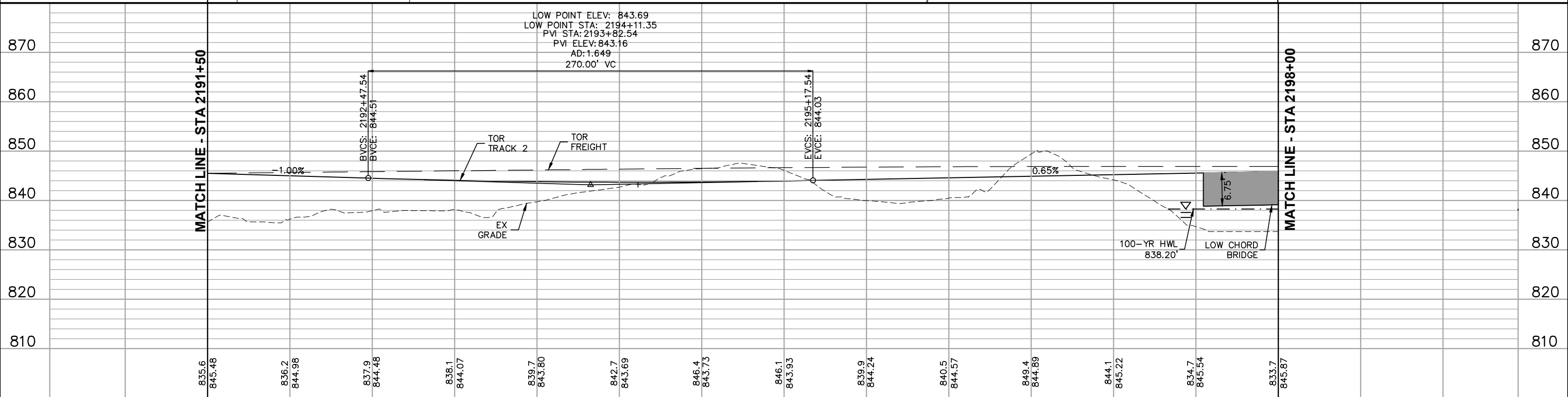
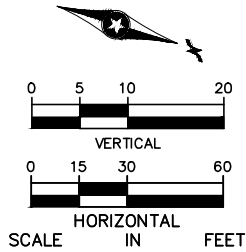
CURVE NO 2-25	
R =	4700.00'
Lc =	100.81'
Ls =	95.00'
Ea =	1.00"
Eu =	1.55"
Vd =	55 MPH








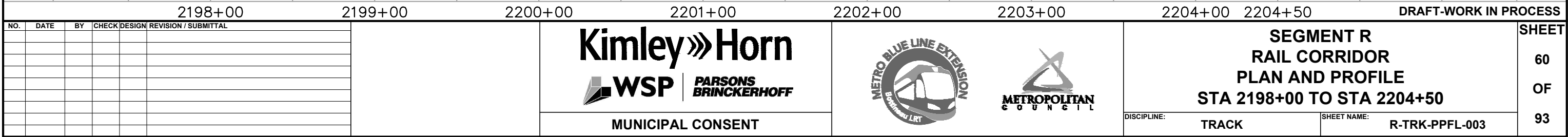
① NOTES:
XCEL TRANSMISSION TOWERS TO
BE SHIFTED TO WEST SIDE OF
BNSF ROW. SEE TRACK TYPICAL
SECTIONS.

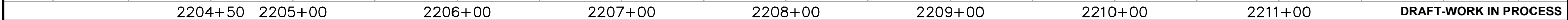
CURVE NO 1-26	
R =	4700.00'
Lc =	100.81'
Ls =	95.00'
Ea =	1.00"
Eu =	1.55"
Vd =	55 MPH

CURVE NO 2-26	
R =	4714.00'
Lc =	101.40'
Ls =	95.00'
Ea =	1.00"
Eu =	1.54"
Vd =	55 MPH



2191+50						2192+00		2193+00		2194+00		2195+00		2196+00		2197+00		2198+00		DRAFT-WORK IN PROCESS	
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	<div><div></div><div>MUNICIPAL CONSENT</div></div> <div><div></div><div>SEGMENT R RAIL CORRIDOR PLAN AND PROFILE STA 2191+50 TO STA 2198+00</div></div> <div>DISCIPLINE: TRACK</div> <div>SHEET NAME: R-TRK-PPFL-002</div>															

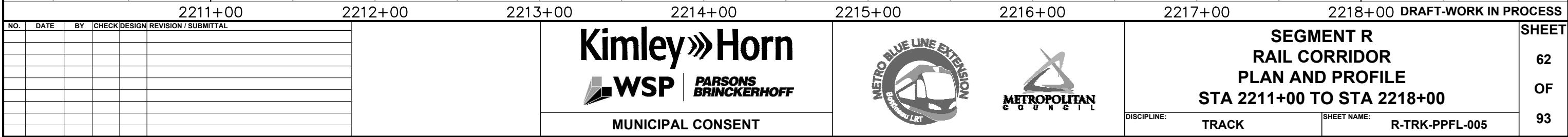


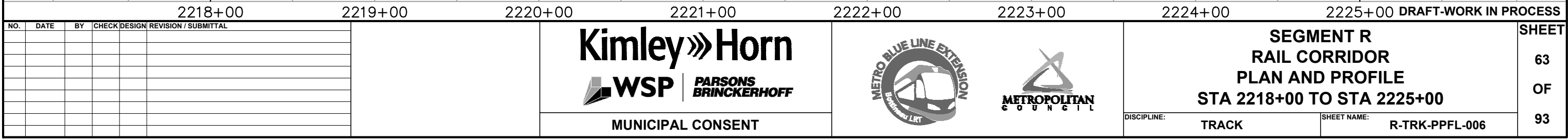


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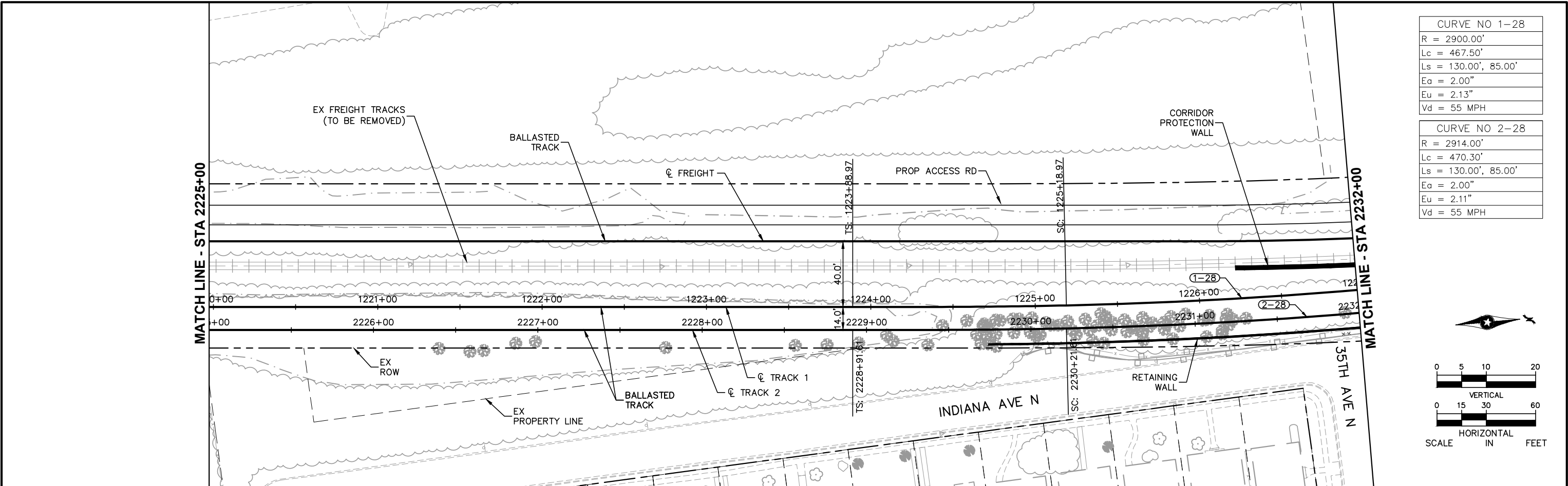


<div style="text-align: center;"> SEGMENT R RAIL CORRIDOR PLAN AND PROFILE STA 2204+50 TO STA 2211+00 </div>		<div style="text-align: center;"> SHEET 61 OF 93 </div>	
DISCIPLINE:	TRACK		SHEET NAME:



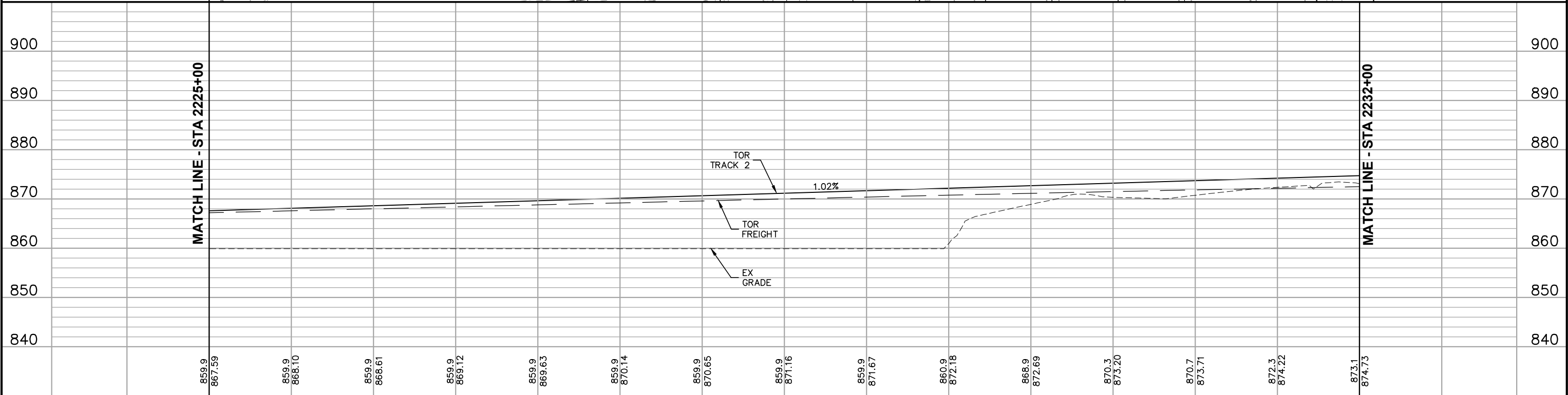
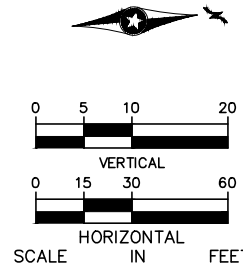


Dec, 03 2015 03:06 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-PPFL.dwg By: V-Prudho




CURVE NO 1-28
R = 2900.00'
Lc = 467.50'
Ls = 130.00', 85.00'
Ea = 2.00"
Eu = 2.13"
Vd = 55 MPH

CURVE NO 2-28
R = 2914.00'
Lc = 470.30'
Ls = 130.00', 85.00'
Ea = 2.00"
Eu = 2.11"
Vd = 55 MPH





2225+00 2226+00 2227+00 2228+00 2229+00 2230+00 2231+00 2232+00 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



SEGMENT R
RAIL CORRIDOR
PLAN AND PROFILE
STA 2225+00 TO STA 2232+00

DISCIPLINE: TRACK

SHEET NAME: R-TRK-PPFL-007

SHEET 64 OF 93

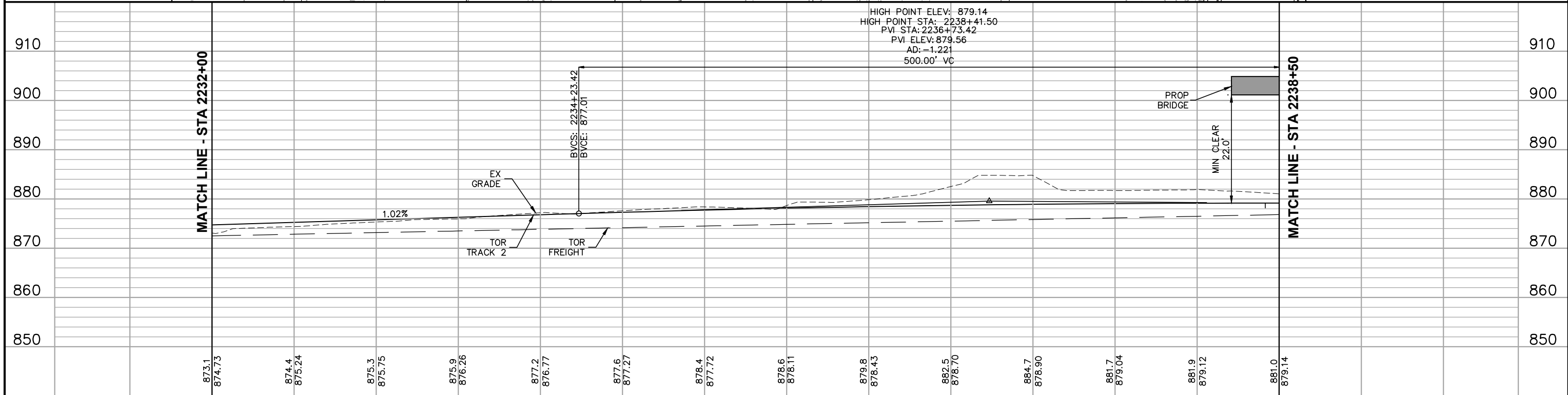
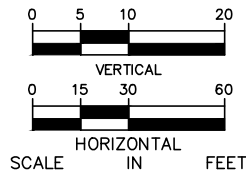
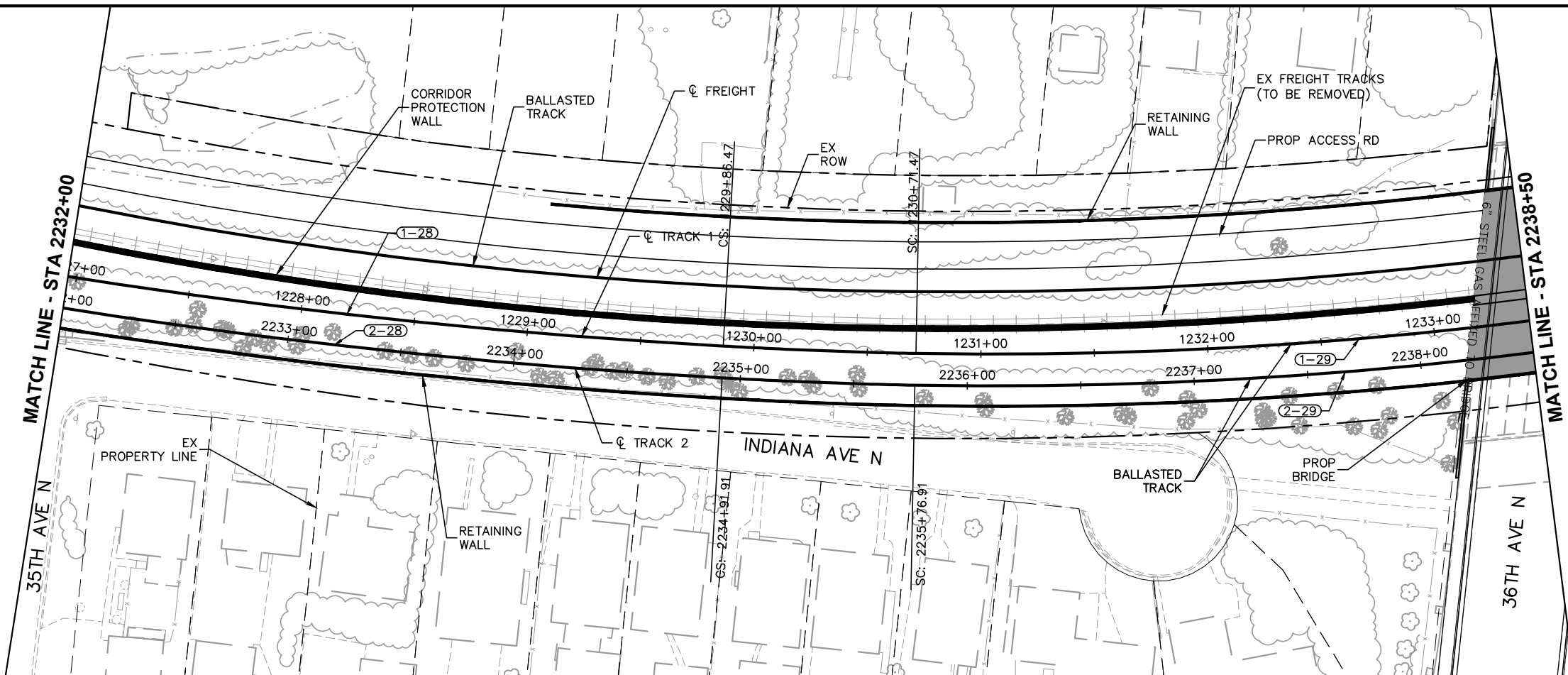
Dec. 03 2015 03:09 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\1R-TRK-PPFL.dwg By: V-Prudho

CURVE NO 1-28
R = 2900.00'
Lc = 467.50'
Ls = 130.00', 85.00'
Ea = 2.00"
Eu = 2.13"
Vd = 55 MPH

CURVE NO 2-28
R = 2914.00'
Lc = 470.30'
Ls = 130.00', 85.00'
Ea = 2.00"
Eu = 2.11"
Vd = 55 MPH

CURVE NO 1-29
R = 1900.00'
Lc = 774.12'
Ls = 85.00', 200.00'
Ea = 3.25"
Eu = 3.05"
Vd = 55 MPH

CURVE NO 2-29
R = 1914.00'
Lc = 780.85'
Ls = 85.00', 200.00'
Ea = 3.25"
Eu = 3.01"
Vd = 55 MPH



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL	2232+00	2233+00	2234+00	2235+00	2236+00	2237+00	2238+00	2238+50	DRAFT-WORK IN PROCESS
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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | **PARSONS BRINCKERHOFF**

MUNICIPAL CONSENT

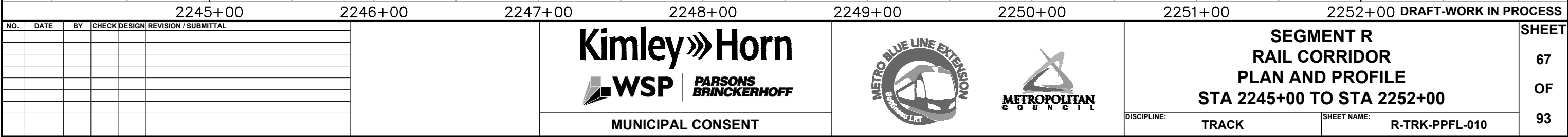


SEGMENT R
RAIL CORRIDOR
PLAN AND PROFILE
STA 2232+00 TO STA 2238+50

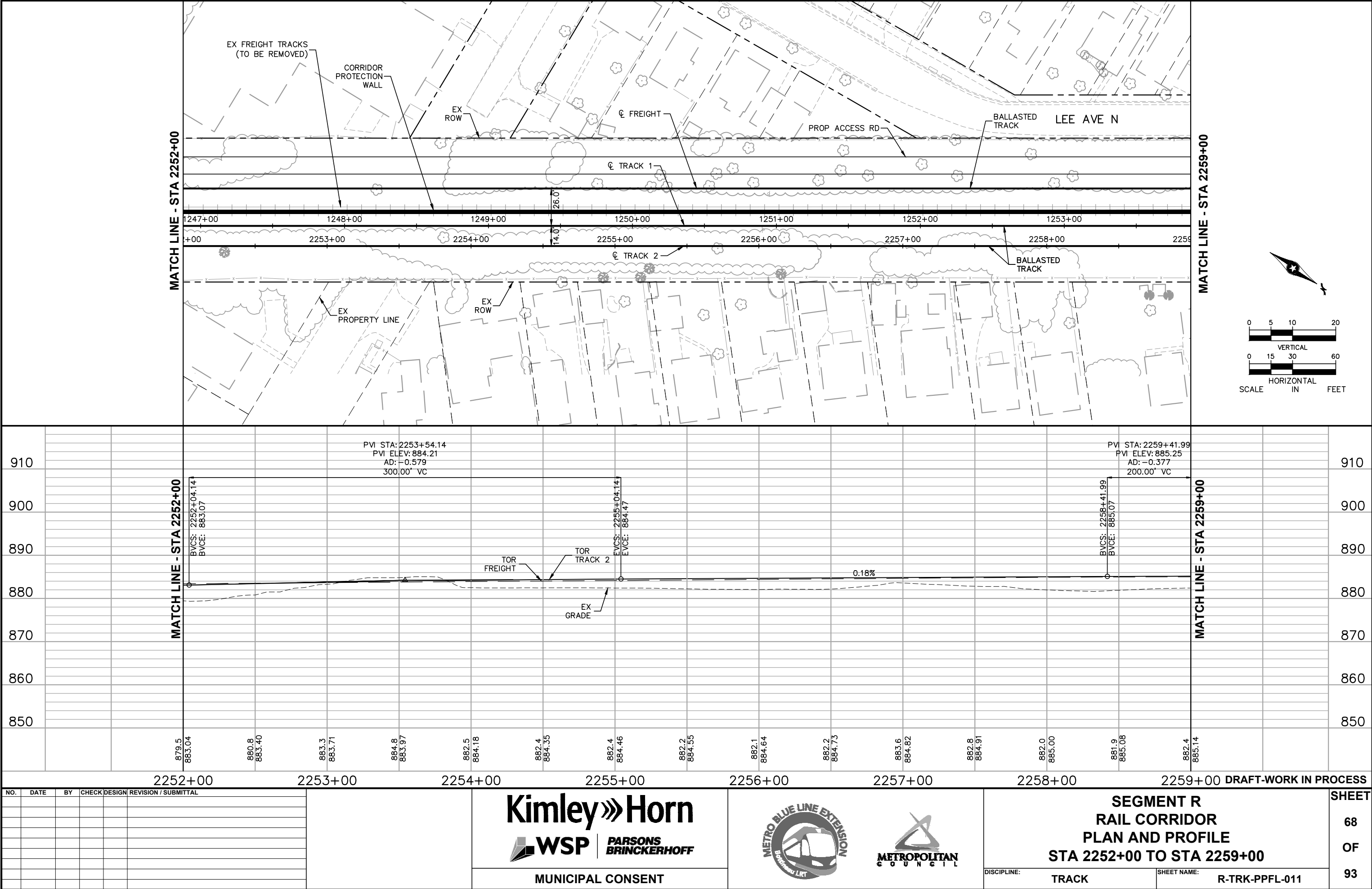
DISCIPLINE: **TRACK**

SHEET NAME: **R-TRK-PPFL-008**



SHEET
65
OF
93




Dec, 03 2015 03:12 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-PPFL.dwg By: V-Prudho



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



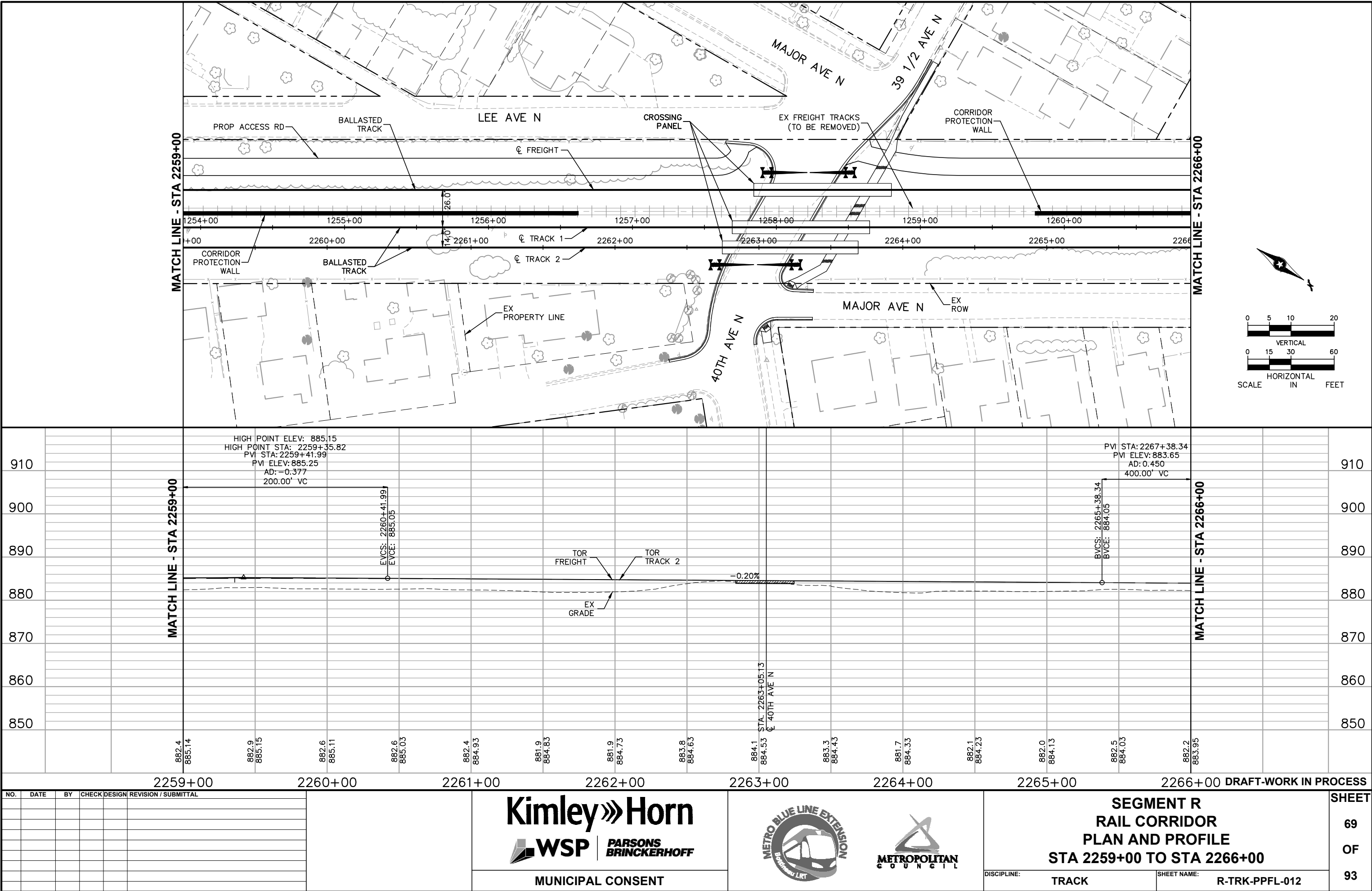
SEGMENT R
RAIL CORRIDOR
PLAN AND PROFILE
STA 2252+00 TO STA 2259+00

DISCIPLINE: TRACK

SHEET NAME: R-TRK-PPFL-011

SHEET 68 OF 93

Dec, 04 2015 10:22 am H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-PPFL.dwg By: V-Prudho



2259+00						2260+00						2261+00						2262+00						2263+00						2264+00						2265+00						2266+00						DRAFT-WORK IN PROCESS					
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL							<div><div><div>Kimley»Horn</div><div><div><div>WSP</div><div>PARSONS BRINCKERHOFF</div></div></div></div></div>						<div><div><div>METRO BLUE LINE EXTENSION</div><div><div>BOSTON</div><div>LRT</div></div></div><div><div>METROPOLITAN</div><div>COUNCIL</div></div></div>						<div>SEGMENT R RAIL CORRIDOR PLAN AND PROFILE STA 2259+00 TO STA 2266+00</div>						SHEET 69 OF 93																							
DISCIPLINE:			TRACK																																	SHEET NAME:			R-TRK-PPFL-012														
												MUNICIPAL CONSENT																																									



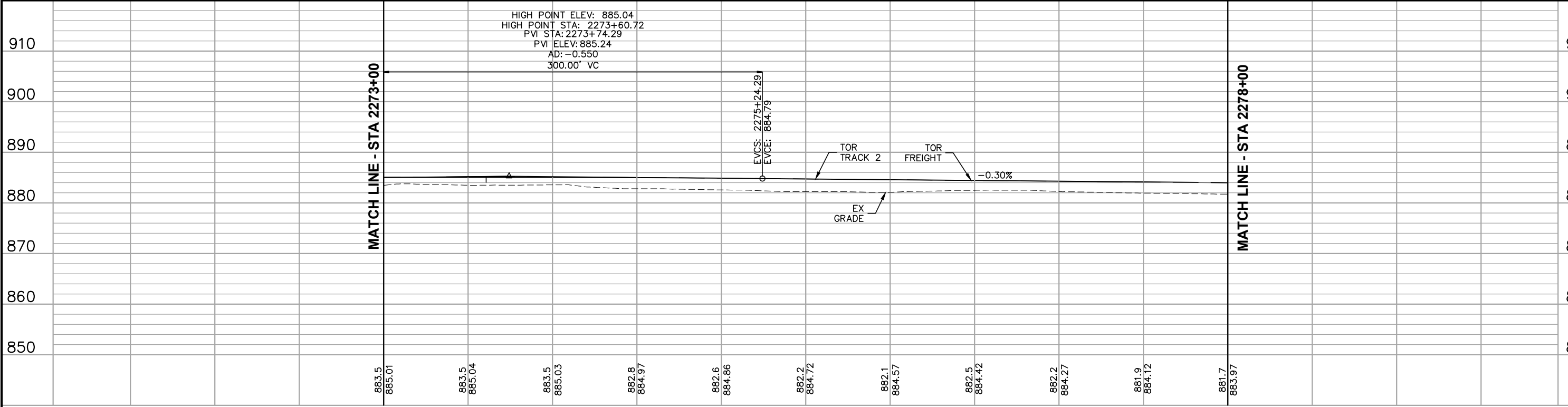
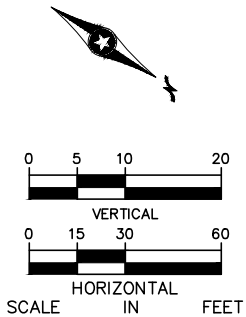
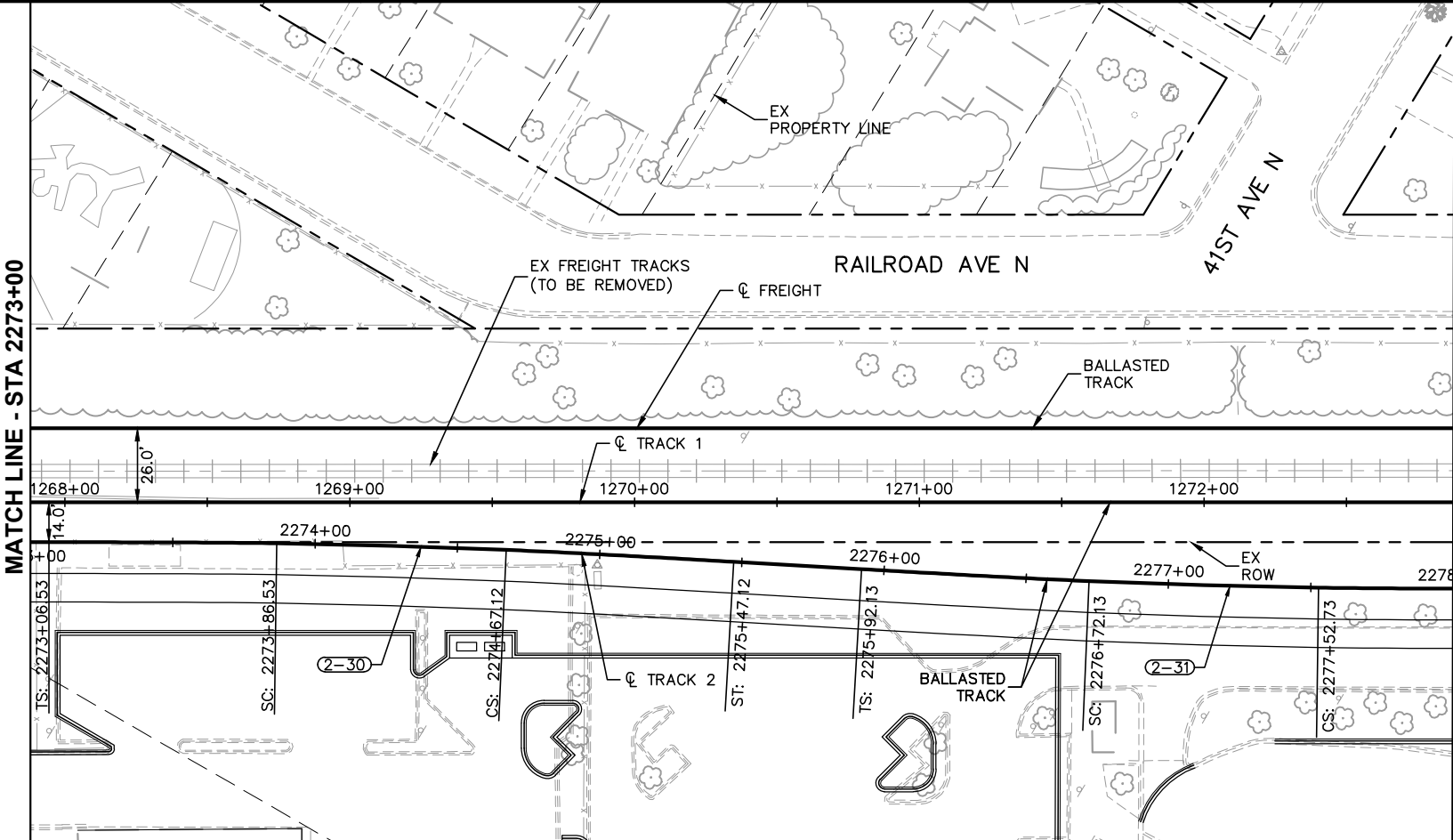
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<p style="text-align: center;">SEGMENT R</p> <p style="text-align: center;">RAIL CORRIDOR</p> <p style="text-align: center;">PLAN AND PROFILE</p> <p style="text-align: center;">STA 2266+00 TO STA 2273+00</p>		<p>SHEET</p> <p>70</p> <p>OF</p> <p>93</p>
<p>DISCIPLINE:</p> <p style="text-align: center;">TRACK</p>	<p>SHEET NAME:</p> <p style="text-align: center;">R-TRK-PPFL-013</p>	

Dec, 04 2015 10:25 am H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-PPFL.dwg By: V-Prudho

CURVE NO 2-30
R = 2800.00'
Lc = 80.59'
Ls = 80.00'
Ea = 1.25"
Eu = 1.61"
Vd = 45 MPH

CURVE NO 2-31
R = 2800.00'
Lc = 80.60'
Ls = 80.00'
Ea = 1.25"
Eu = 1.61"
Vd = 45 MPH





2273+00 2274+00 2275+00 2276+00 2277+00 2278+00 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT

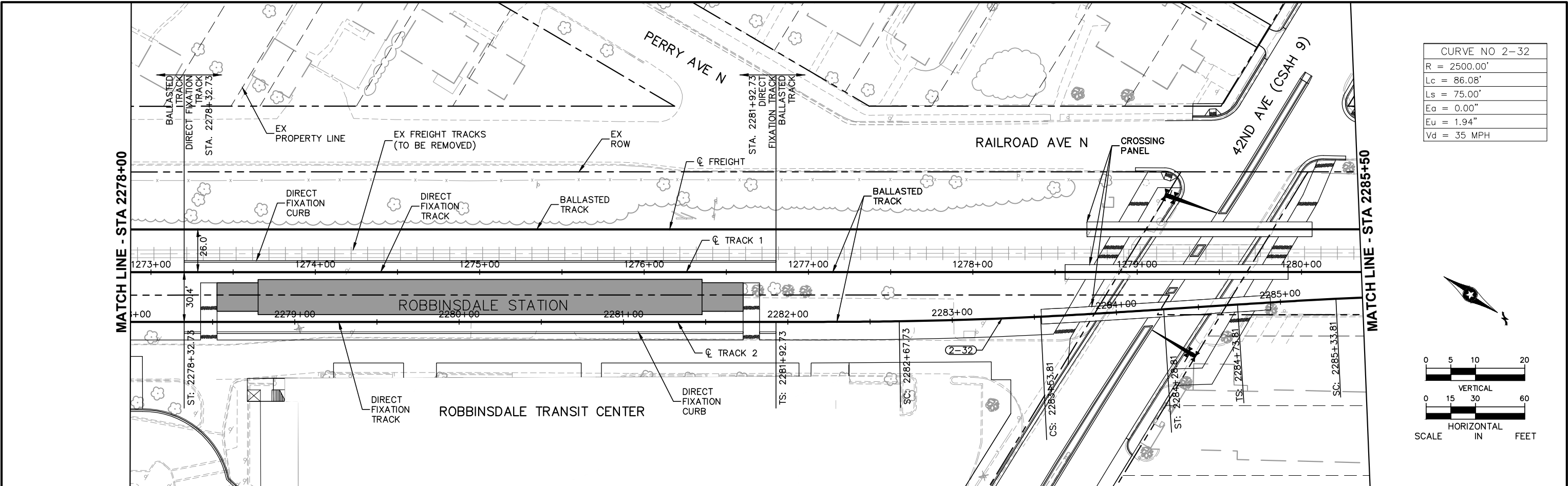


SEGMENT R
RAIL CORRIDOR
PLAN AND PROFILE
STA 2273+00 TO STA 2278+00

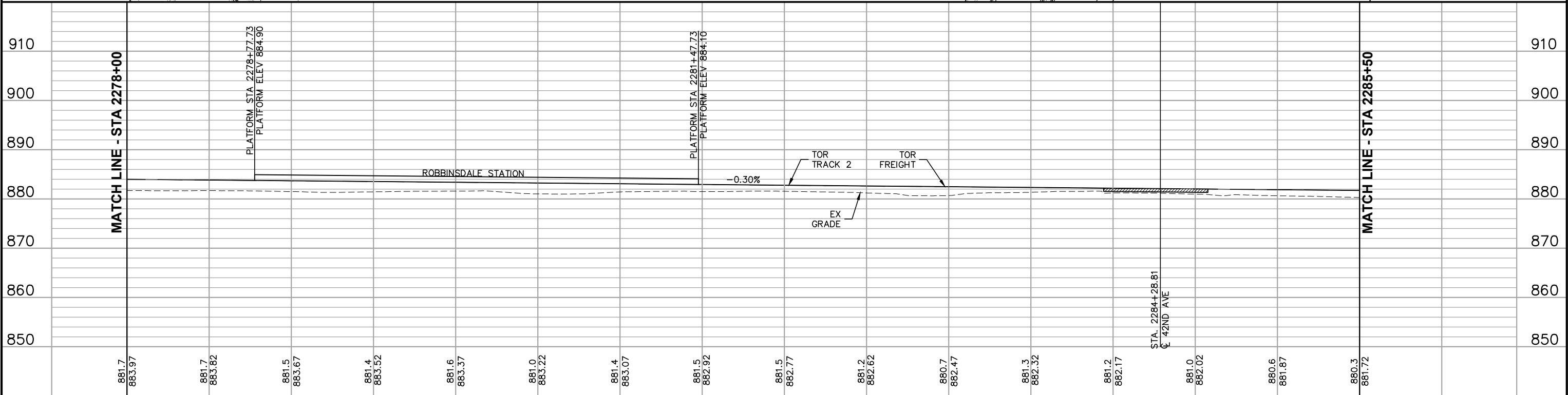
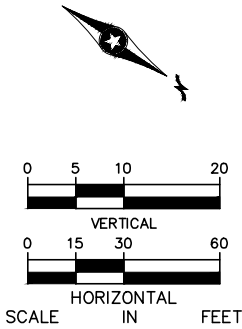
DISCIPLINE: TRACK SHEET NAME: R-TRK-PPFL-014

SHEET
71
OF
93

Dec. 03 2015 03:18 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\WC\PLAN SHEETS\TRACK\R-TRK-PPFL.dwg By: V-Prudho

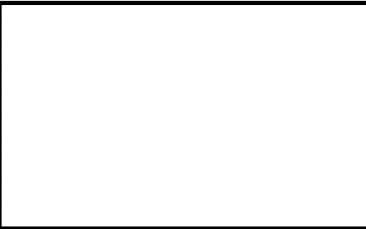


CURVE NO 2-32
R = 2500.00'
Lc = 86.08'
Ls = 75.00'
Ea = 0.00"
Eu = 1.94"
Vd = 35 MPH



2278+00 2279+00 2280+00 2281+00 2282+00 2283+00 2284+00 2285+00 2285+50 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT

SEGMENT R
RAIL CORRIDOR
PLAN AND PROFILE
STA 2278+00 TO STA 2285+50

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

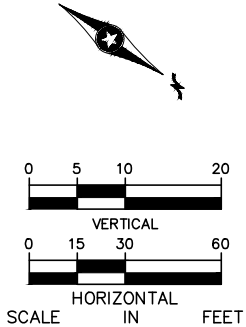
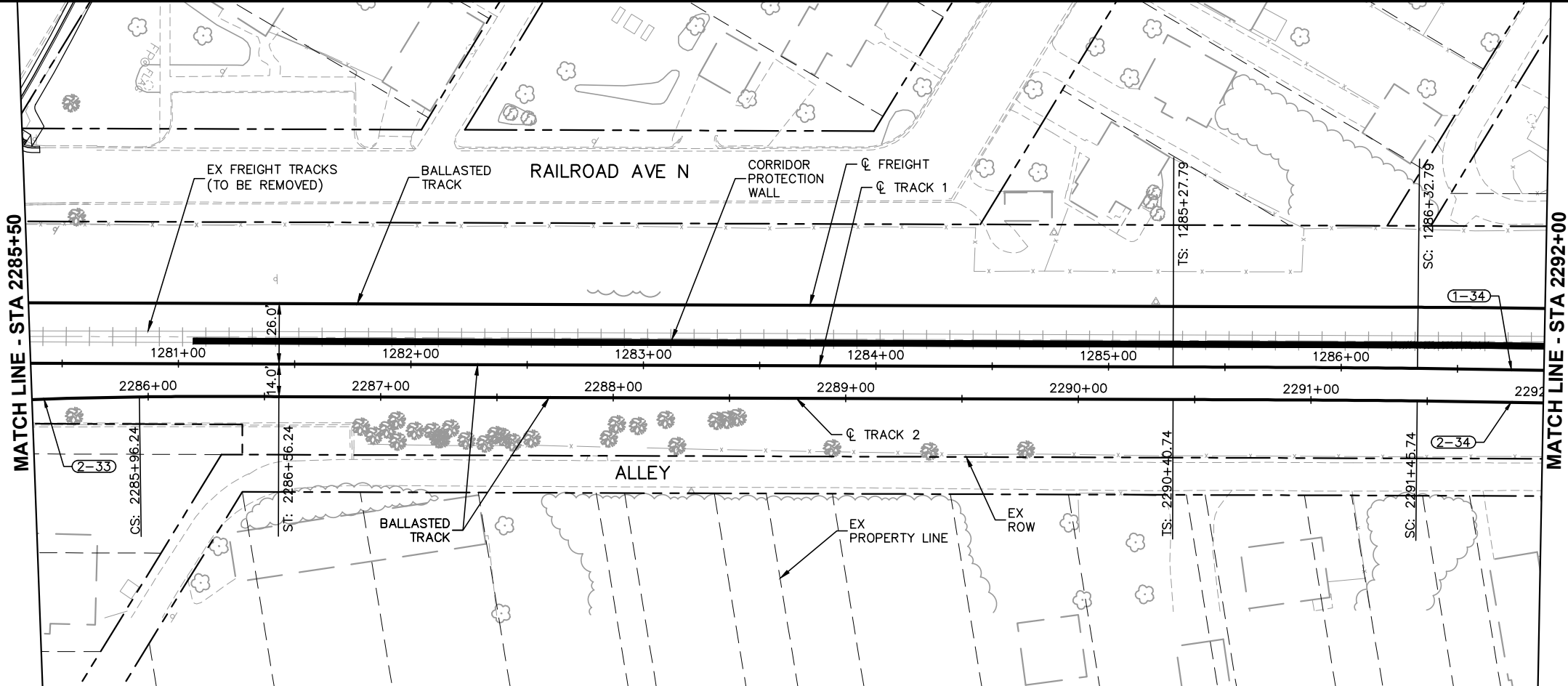
SHEET 72 OF 93

Dec. 03 2015 03:20 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-PPFL.dwg By: V-Prudho

CURVE NO 2-33
R = 1900.00'
Lc = 62.43'
Ls = 60.00'
Ea = 1.00"
Eu = 1.55"
Vd = 35 MPH

CURVE NO 1-34
R = 6814.00'
Lc = 113.03'
Ls = 105.00'
Ea = 1.00"
Eu = 1.46"
Vd = 65 MPH

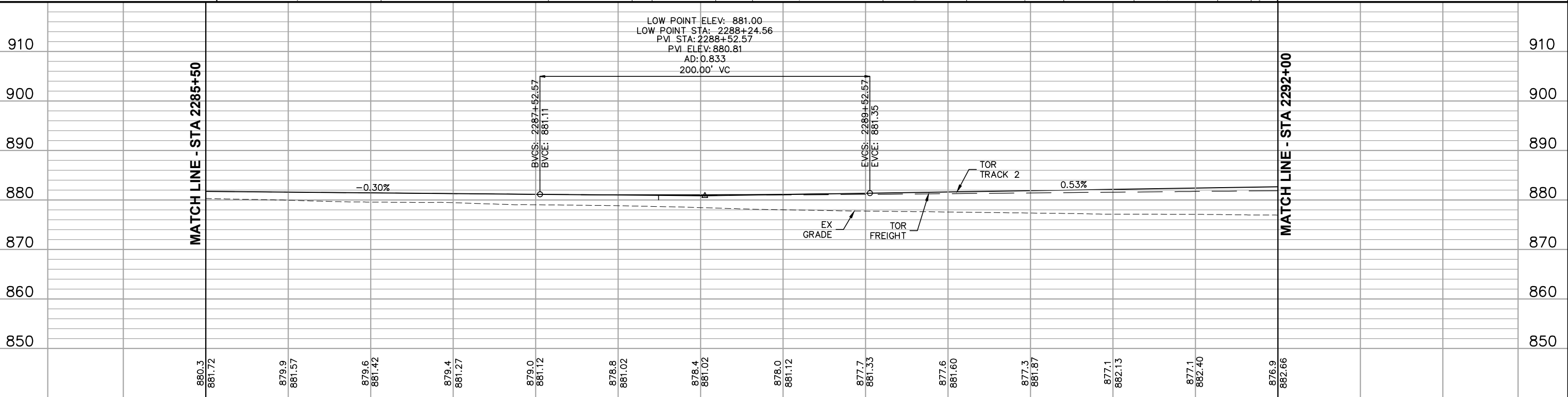
CURVE NO 2-34
R = 6800.00'
Lc = 112.59'
Ls = 105.00'
Ea = 1.00"
Eu = 1.46"
Vd = 65 MPH



LOW POINT ELEV: 881.00
LOW POINT STA: 2288+24.56
PVI STA: 2288+52.57
PVI ELEV: 880.81
AD: 0.833
200.00' VC

BVCS: 2287+52.57
BVOL: 881.11

EVCS: 2289+52.57
EVOL: 881.35



2285+50 2286+00 2287+00 2288+00 2289+00 2290+00 2291+00 2292+00						DRAFT-WORK IN PROCESS			
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	<div>Kimley»Horn</div> <div>WSP PARSONS BRINCKERHOFF</div> <div>MUNICIPAL CONSENT</div>			
						<div>METRO BLUE LINE EXTENSION</div> <div>METROPOLITAN COUNCIL</div> <div>SEGMENT R RAIL CORRIDOR PLAN AND PROFILE STA 2285+50 TO STA 2292+00</div> <div>DISCIPLINE: TRACK</div>			
						<div>SHEET NAME: R-TRK-PPFL-016</div>			
						SHEET 73 OF 93			

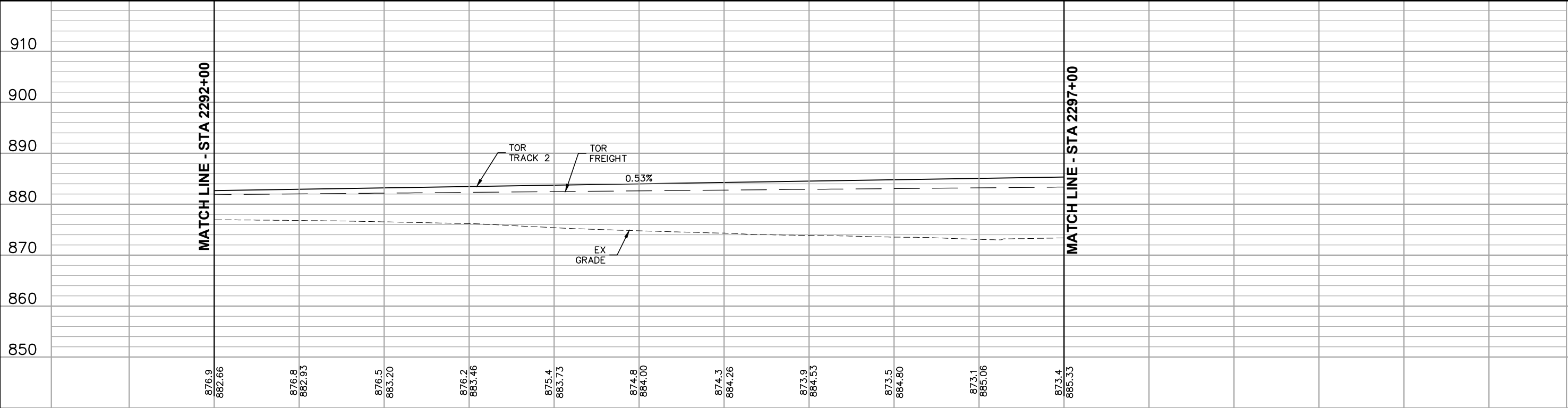
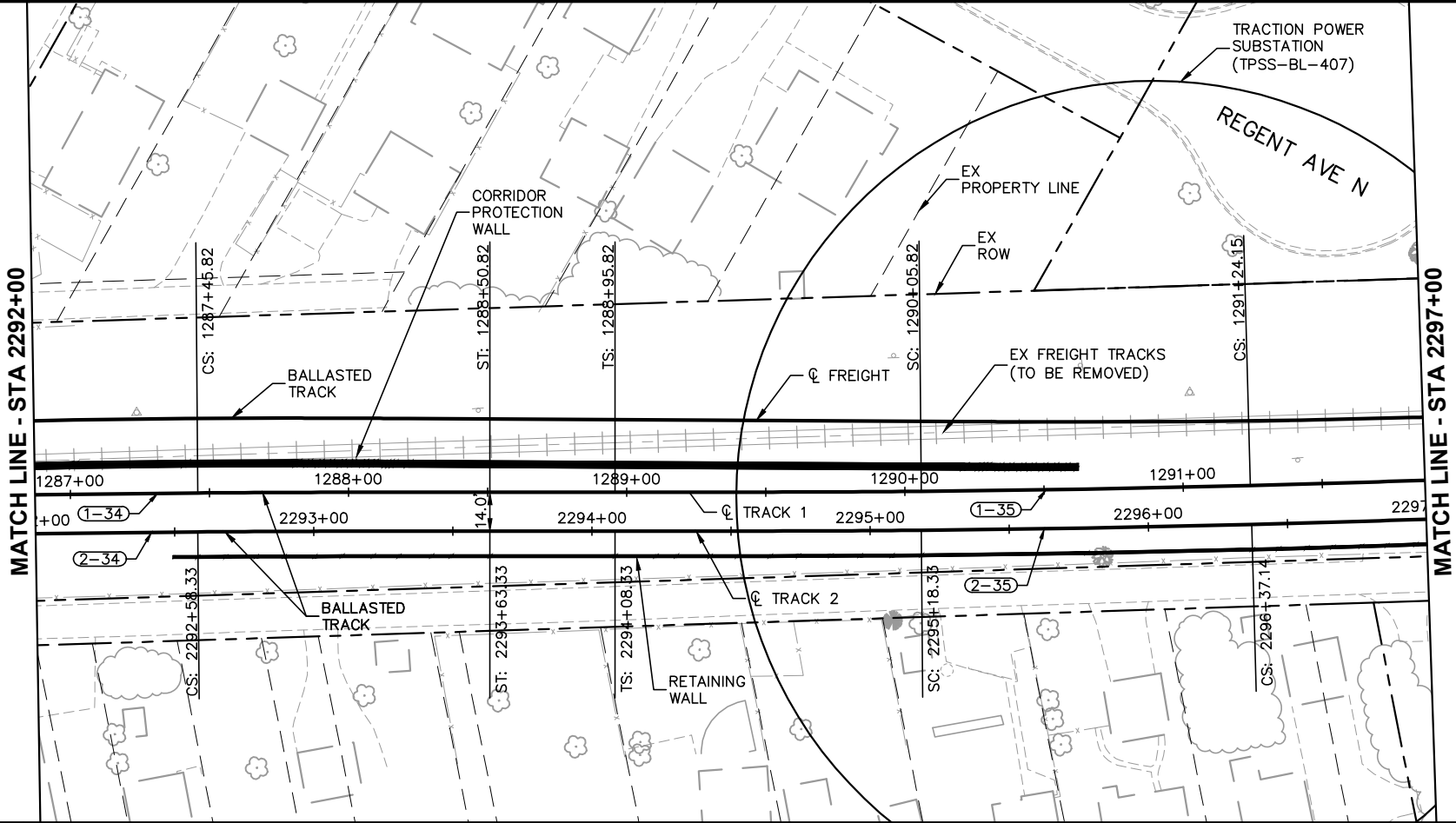
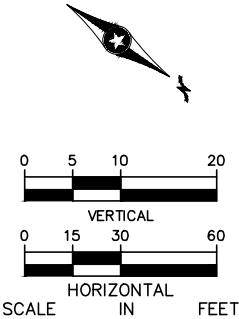
Dec, 03 2015 03:22 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MCP\PLAN SHEETS\TRACK\R-TRK-PPFL.dwg By: V-Prudho

CURVE NO 1-34
R = 6814.00'
Lc = 113.03'
Ls = 105.00'
Ea = 1.00"
Eu = 1.46"
Vd = 65 MPH

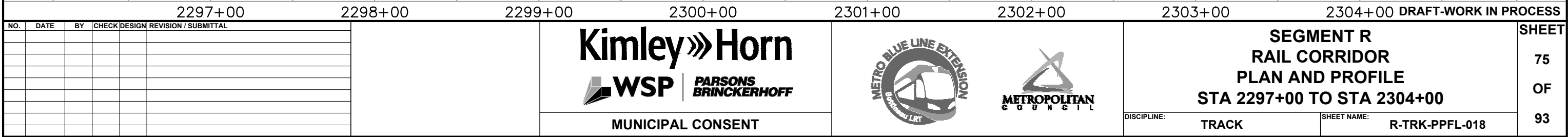
CURVE NO 2-34
R = 6800.00'
Lc = 112.59'
Ls = 105.00'
Ea = 1.00"
Eu = 1.46"
Vd = 65 MPH

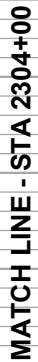
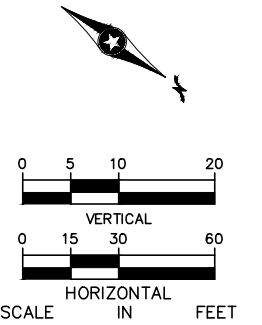
CURVE NO 1-35
R = 6550.00'
Lc = 118.33'
Ls = 110.00'
Ea = 1.25"
Eu = 1.30"
Vd = 65 MPH

CURVE NO 2-35
R = 6564.00'
Lc = 118.81'
Ls = 110.00'
Ea = 1.25"
Eu = 1.30"
Vd = 65 MPH



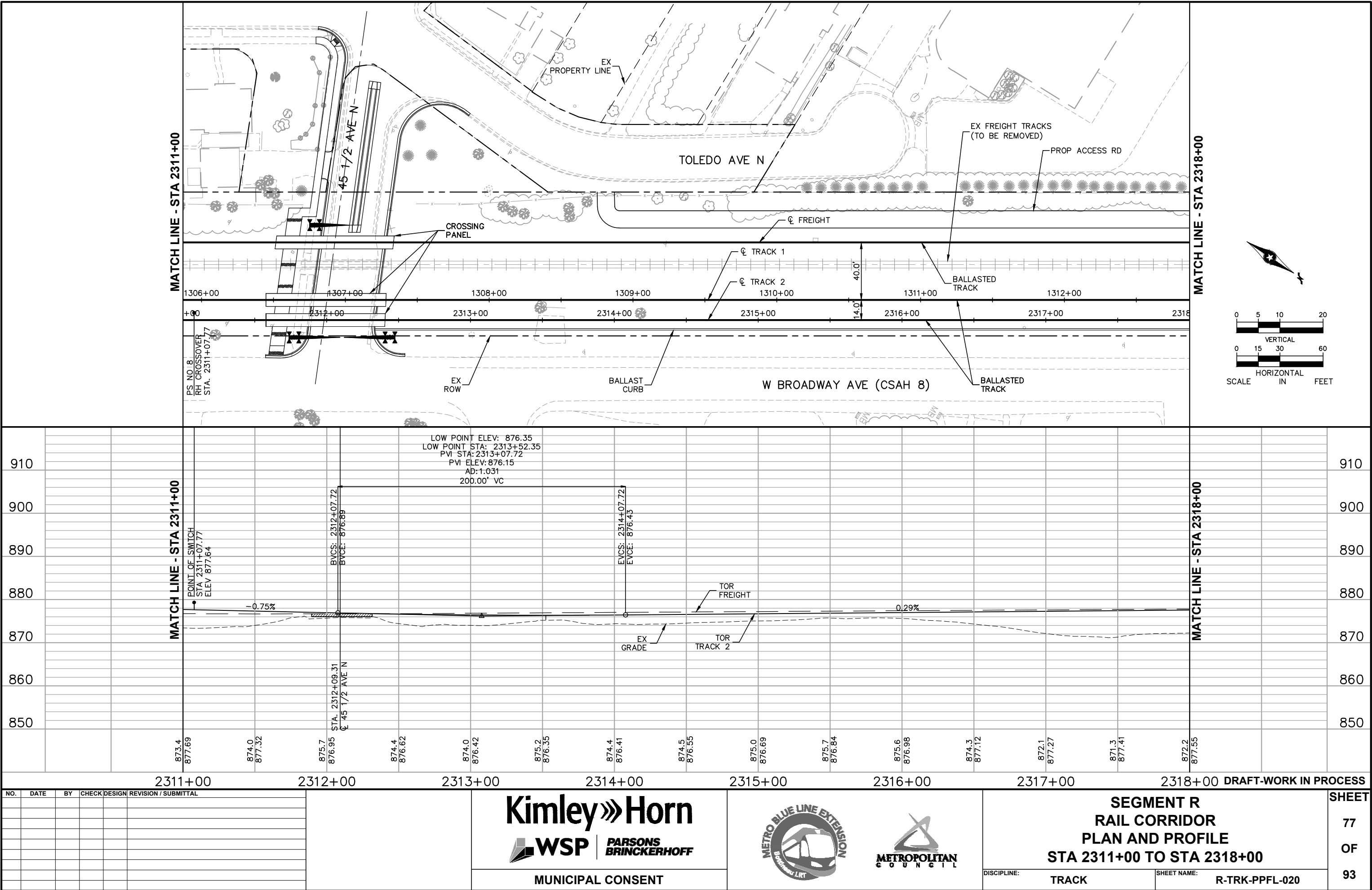
2292+00						2293+00		2294+00		2295+00		2296+00		2297+00		DRAFT-WORK IN PROCESS			
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	<div>Kimley»Horn</div> <div> </div> <div>MUNICIPAL CONSENT</div>						<div> </div> <div>SEGMENT R RAIL CORRIDOR PLAN AND PROFILE STA 2292+00 TO STA 2297+00</div> <div>DISCIPLINE: TRACK</div> <div>SHEET NAME: R-TRK-PPFL-017</div>				SHEET 74 OF 93			





2304+00						2305+00						2306+00						2307+00						2308+00						2309+00						2310+00						2311+00 DRAFT-WORK IN PROCESS					
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	<div><div><div><div>Kimley»Horn</div><div><div><div>WSP</div><div>PARSONS BRINCKERHOFF</div></div></div></div><div>MUNICIPAL CONSENT</div></div></div>						<div><div><div><div>METRO BLUE LINE EXTENSION</div><div><div><div>BOSTON</div><div>LRT</div></div></div></div><div><div><div>METROPOLITAN</div><div>COUNCIL</div></div></div></div></div>						<div>SEGMENT R</div> <div>RAIL CORRIDOR</div> <div>PLAN AND PROFILE</div> <div>STA 2304+00 TO STA 2311+00</div>						SHEET 76 OF 93																							
DISCIPLINE: TRACK																														SHEET NAME: R-TRK-PPFL-019																	

Dec, 03 2015 03:27 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\TRACK\R-TRK-PPFL.dwg By: V-Prudho



NO.						DRAFT-WORK IN PROCESS										SHEET	
DATE																77	
BY																OF	
CHECK/DESIGN																93	
REVISION / SUBMITTAL																	

Kimley»Horn

WSP | **PARSONS BRINCKERHOFF**

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION

METROPOLITAN COUNCIL

SEGMENT R

RAIL CORRIDOR

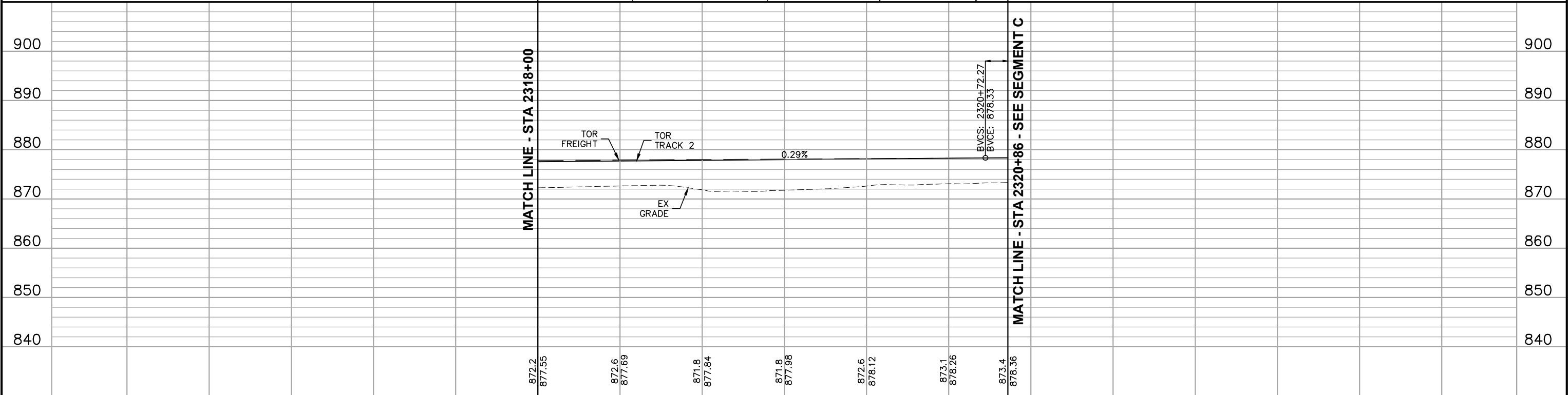
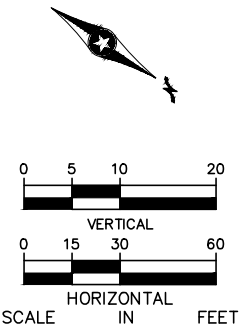
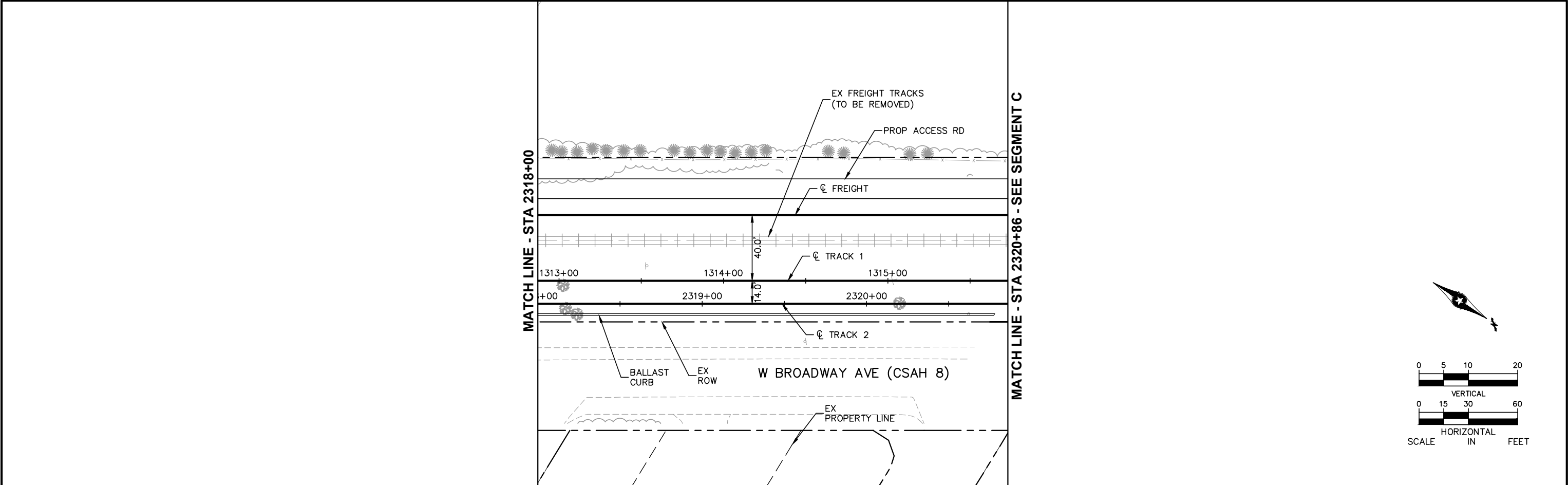
PLAN AND PROFILE

STA 2311+00 TO STA 2318+00

DISCIPLINE: **TRACK**

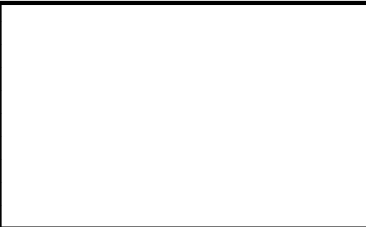
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2318+00 2319+00 2320+00 2320+86 DRAFT-WORK IN PROCESS

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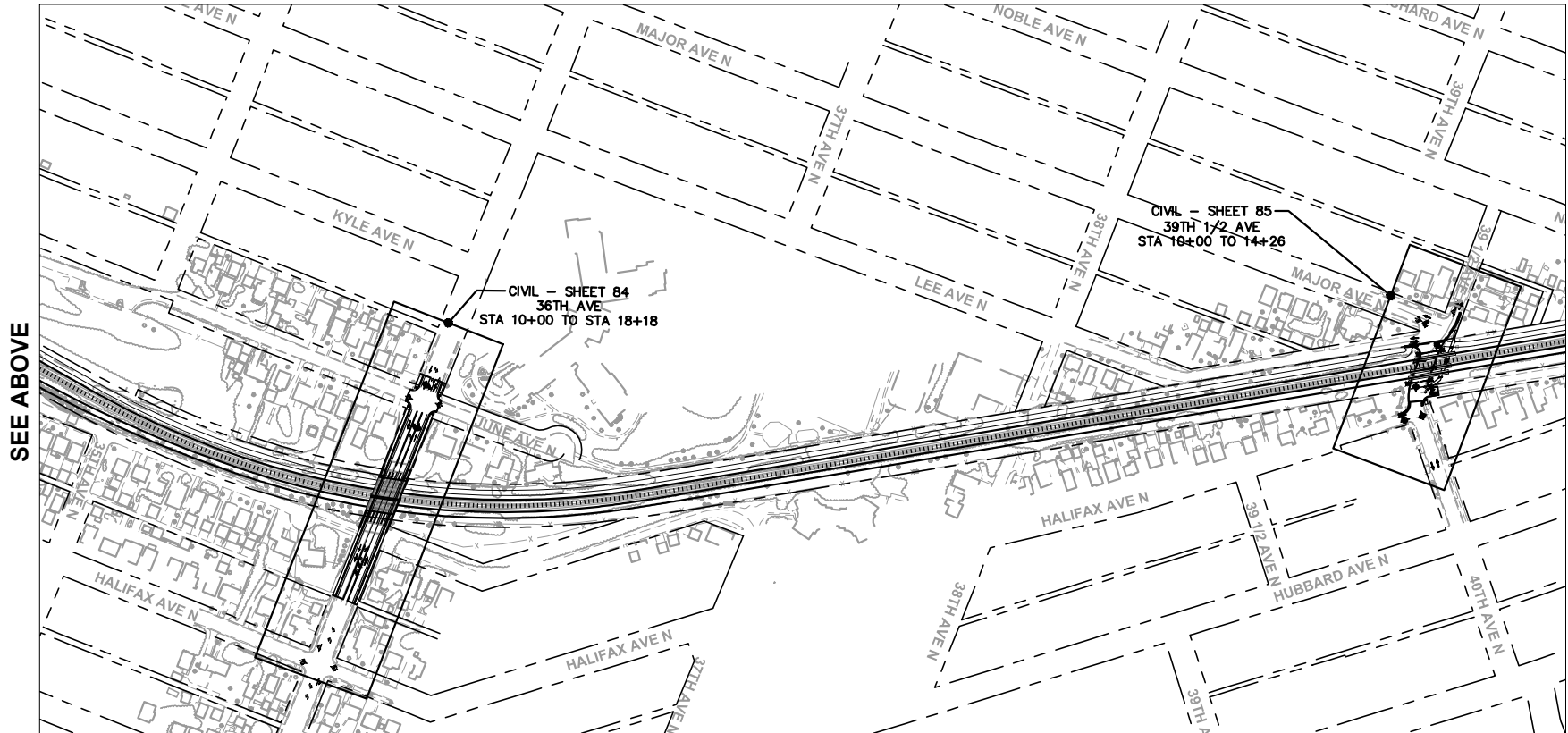
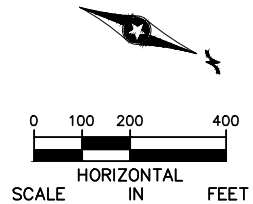
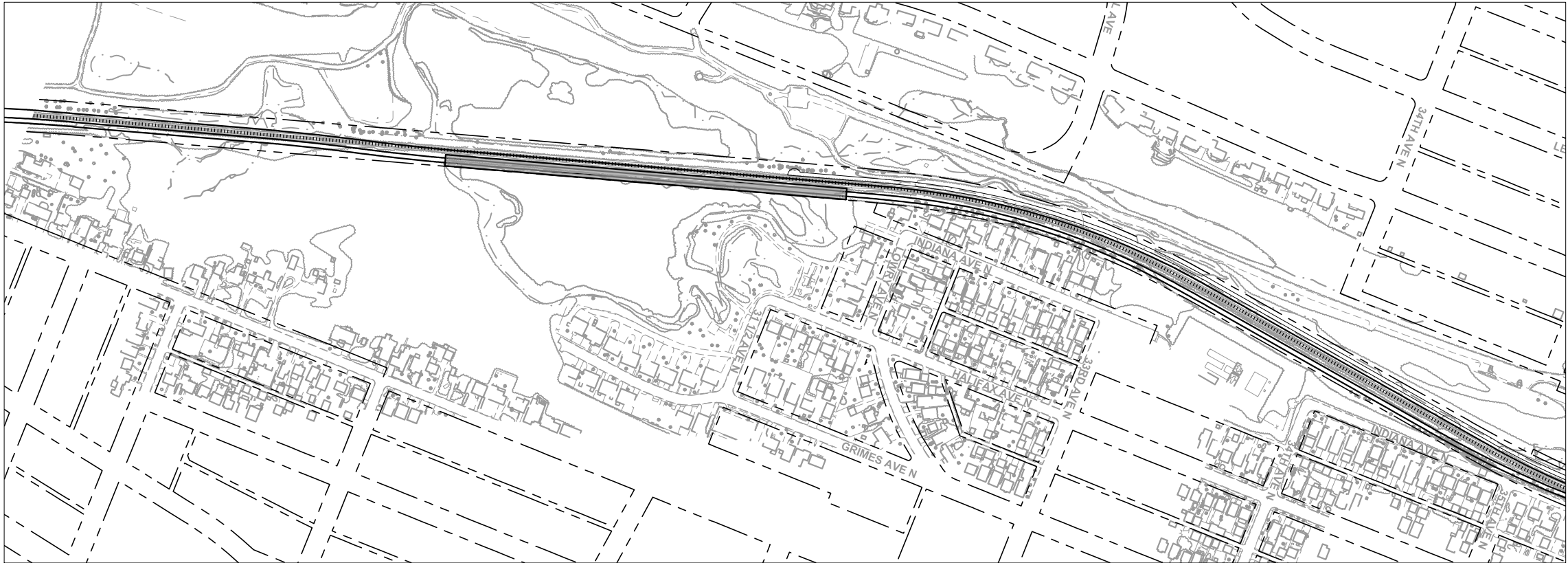
SEGMENT R
RAIL CORRIDOR
PLAN AND PROFILE
STA 2318+00 TO STA 2320+86

DISCIPLINE: TRACK

SHEET NAME: R-TRK-PPFL-021

SHEET 78 OF 93

Dec. 03 2015 05:12 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\CIVIL\R-CIV-IDX.dwg By: V-NelsonHA



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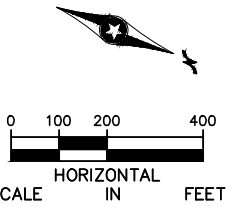
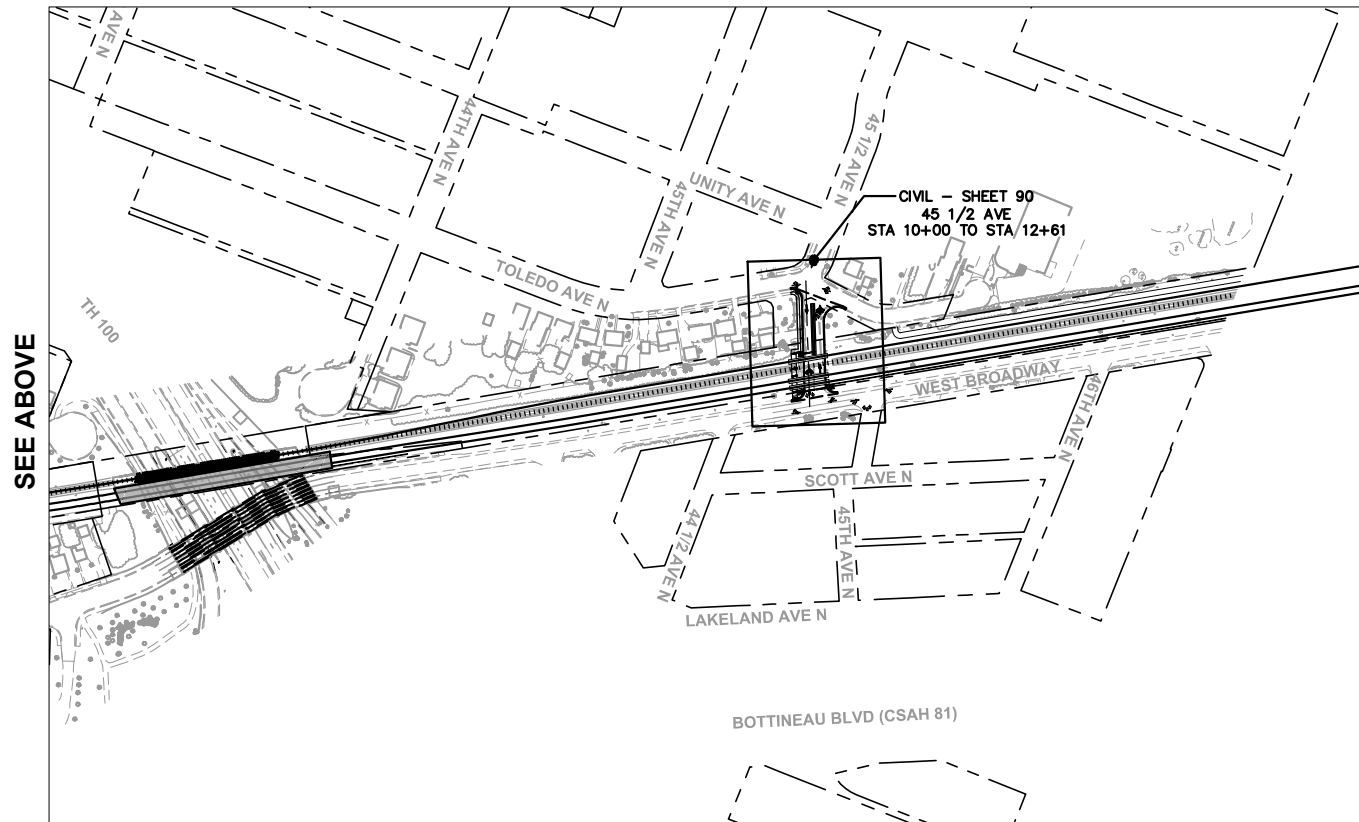
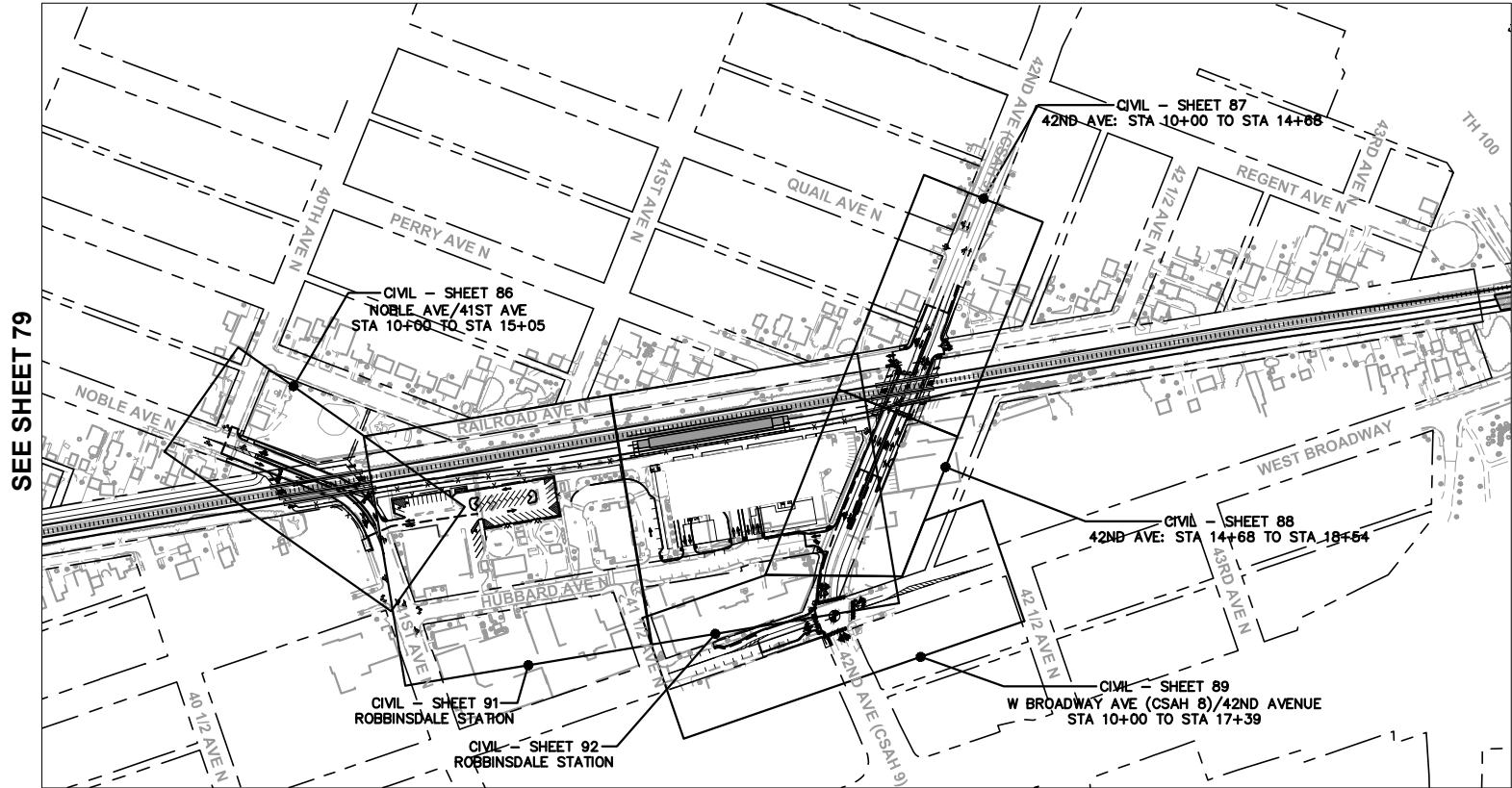
SEGMENT R
CIVIL
SHEET LAYOUT INDEX

DISCIPLINE: CIVIL




SHEET NAME: R-CIV-IDX-001

SHEET
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OF
93

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METRO BLUE LINE EXTENSION
Bottineau LRT

METROPOLITAN
COUNCIL

DISCIPLINE: CIVIL		SHEET NAME: R-CIV-IDX-002	
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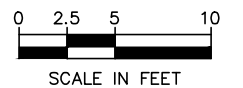
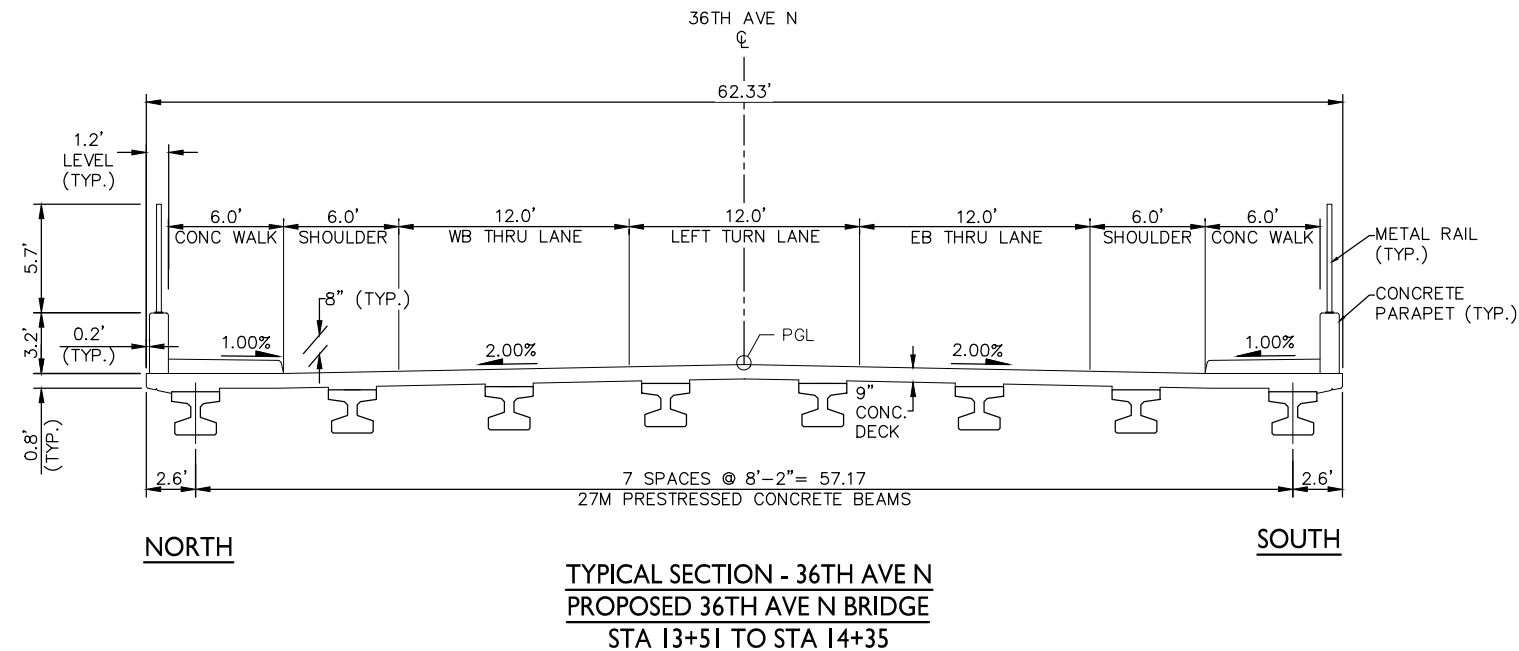
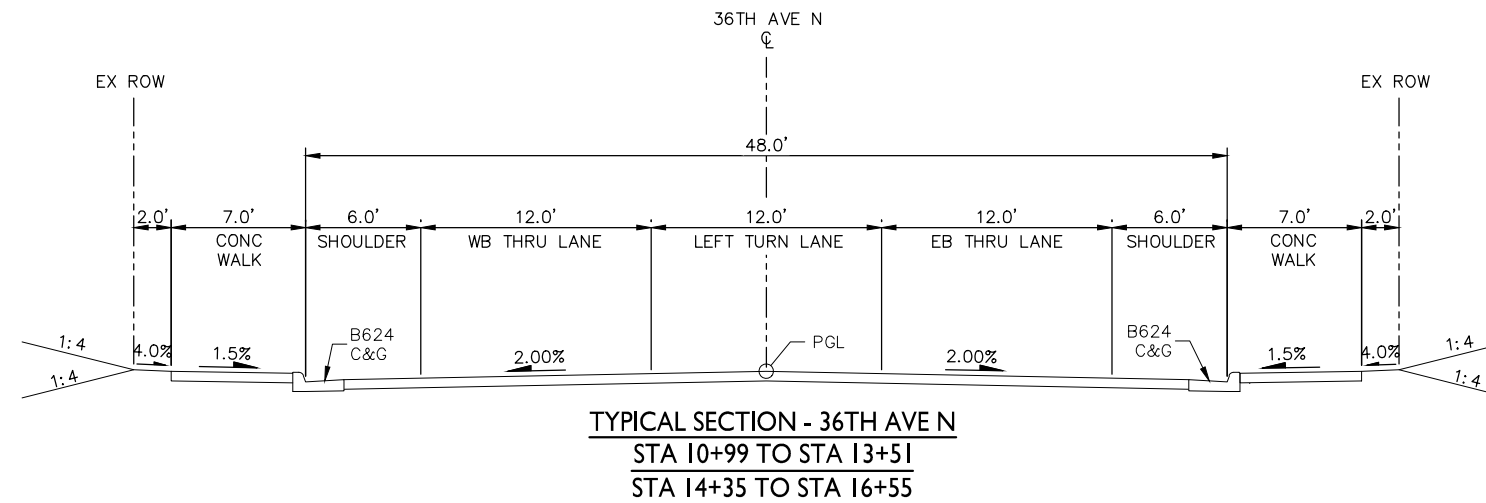
SHEET
80
OF
93

DRAFT-WORK IN PROCESS

SEGMENT R
CIVIL
SHEET LAYOUT INDEX

Dec, 04 2015 08:50 am H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\M\PLAN SHEETS\CIVIL\R-CIV-TYP.dwg By: V-NelsonHA

NOTES:
① SLOPES LISTED ARE V:H



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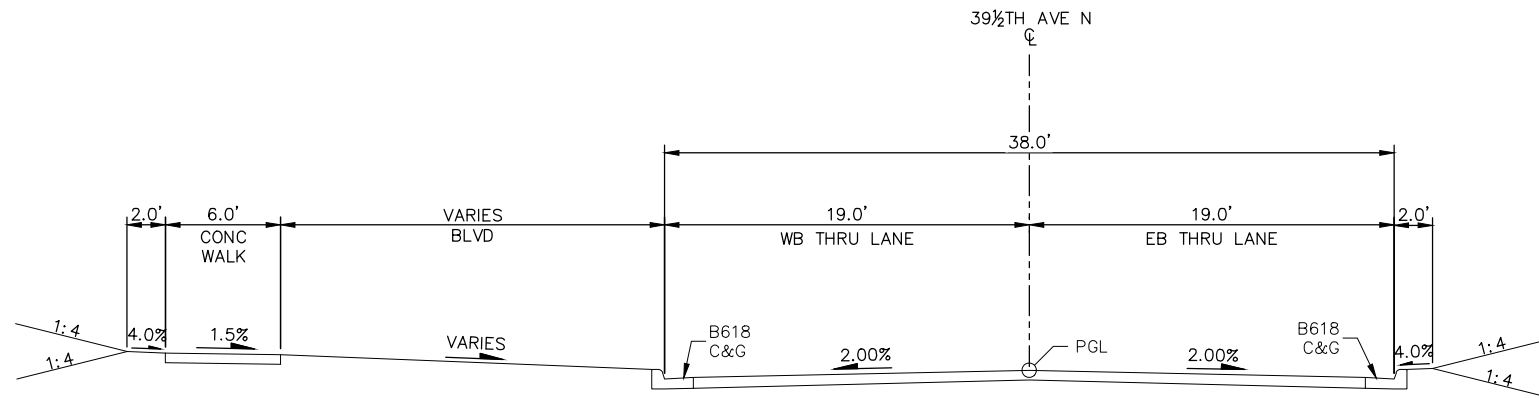


**SEGMENT R
CIVIL
TYPICAL SECTIONS**

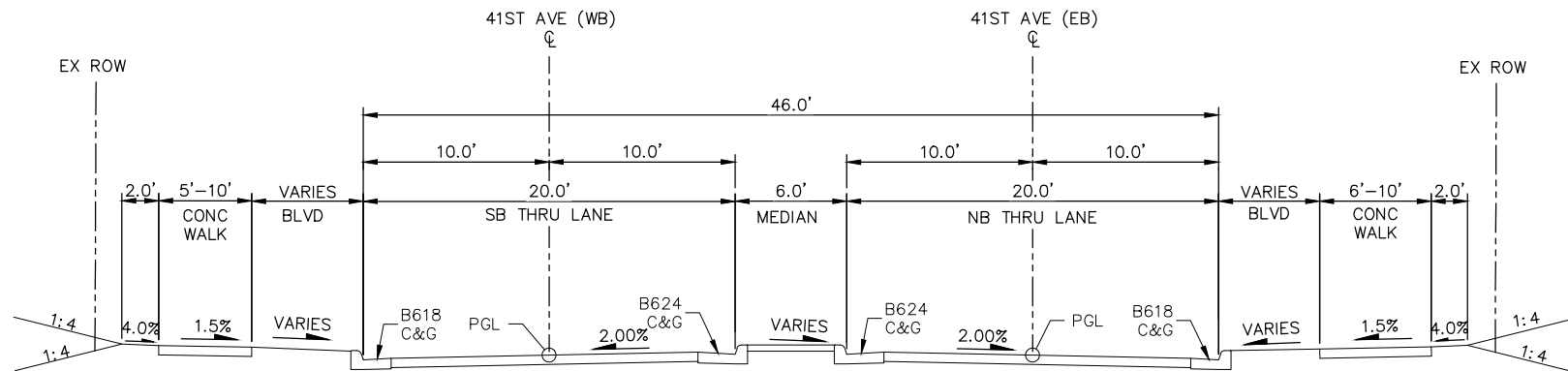
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SHEET
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OF
93

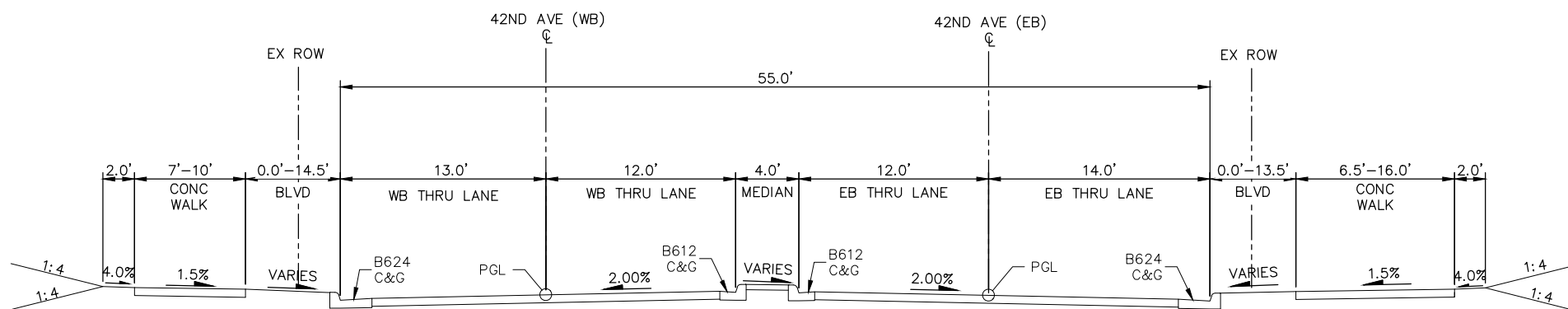
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TYPICAL SECTION - 39 1/2 TH AVE N
STA 11+46 TO STA 12+91

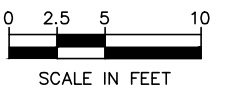


TYPICAL SECTION - 41ST AVE N
STA 10+63 TO STA 14+45



TYPICAL SECTION - 42ND AVE (CSAH 9)
STA 12+42 TO STA 16+12

- NOTES:
- SLOPES LISTED ARE V:H
 - STA 11+46 TO STA 12+91 EXISTING RIGHT-OF-WAY IS LOCATED OUTSIDE OF THE EXTENTS OF THE TYPICAL SECTION



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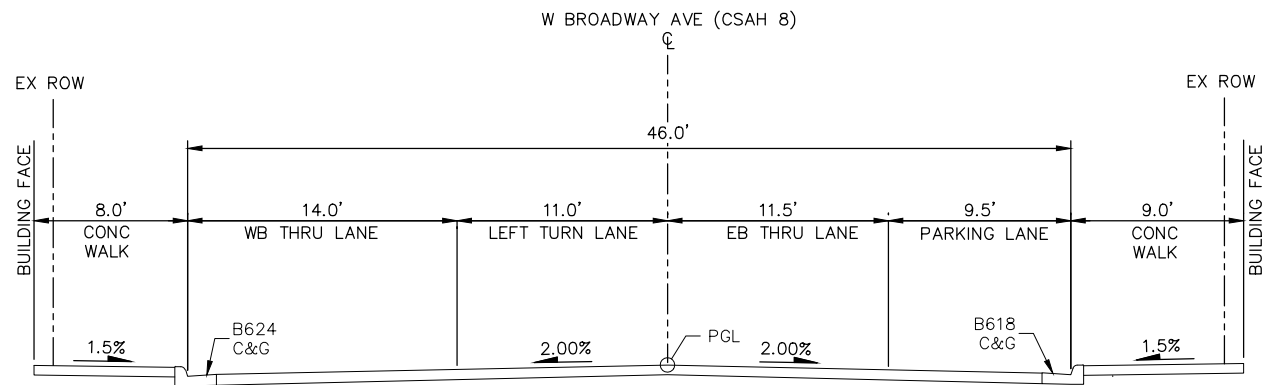
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Consulting Group, Inc.

ISTHMUS engineering, inc.

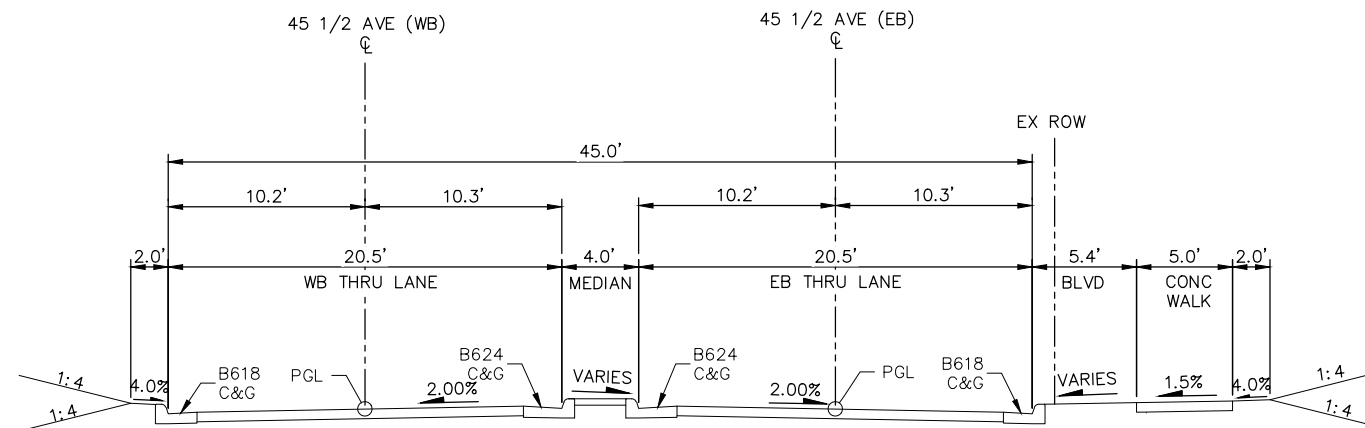
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SEGMENT R CIVIL TYPICAL SECTIONS		SHEET
DISCIPLINE: CIVIL		82
SHEET NAME: R-CIV-TYP-002		OF
		93

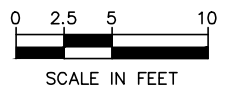


TYPICAL SECTION - W BROADWAY AVE (CSAH 8)
STA 12+05 TO STA 13+43






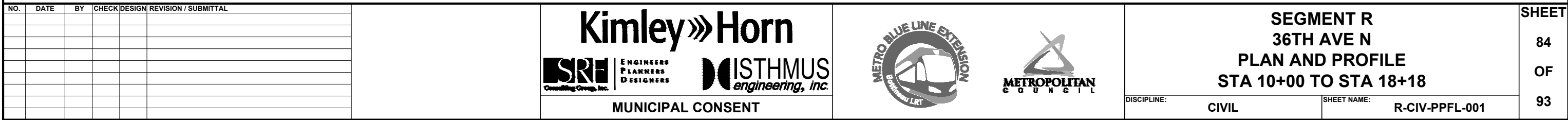
TYPICAL SECTION - 45 1/2 AVE N
STA 10+30 TO STA 12+45

- NOTES:
- ① SLOPES LISTED ARE V:H
 - ② STA 10+30 TO STA 12+45 EXISTING RIGHT-OF-WAY IS LOCATED OUTSIDE OF THE EXTENTS OF THE TYPICAL SECTION

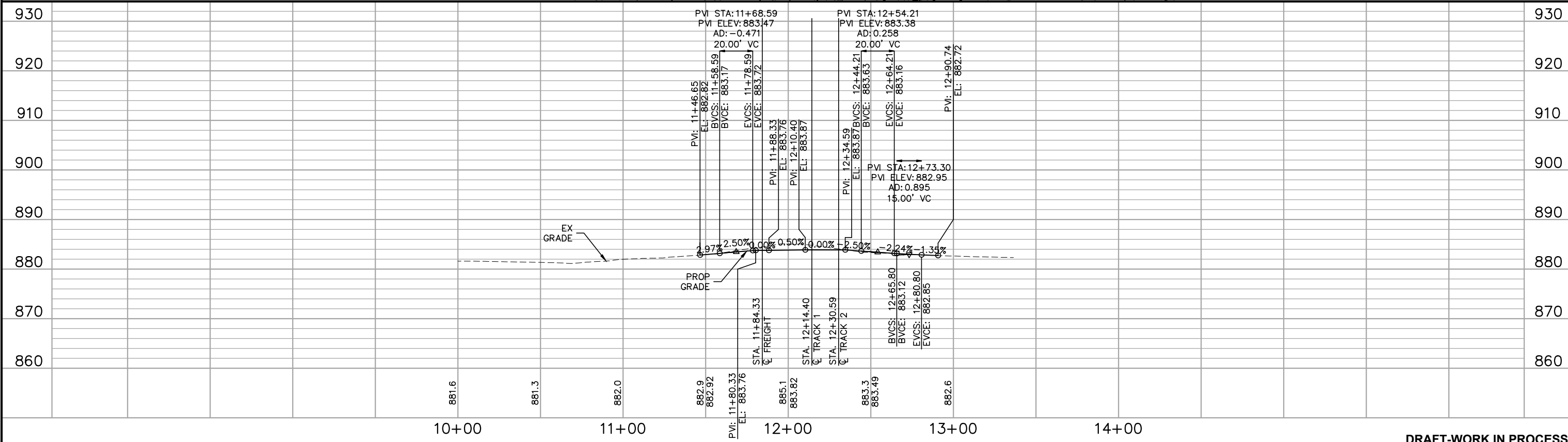
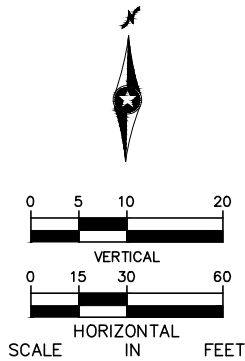
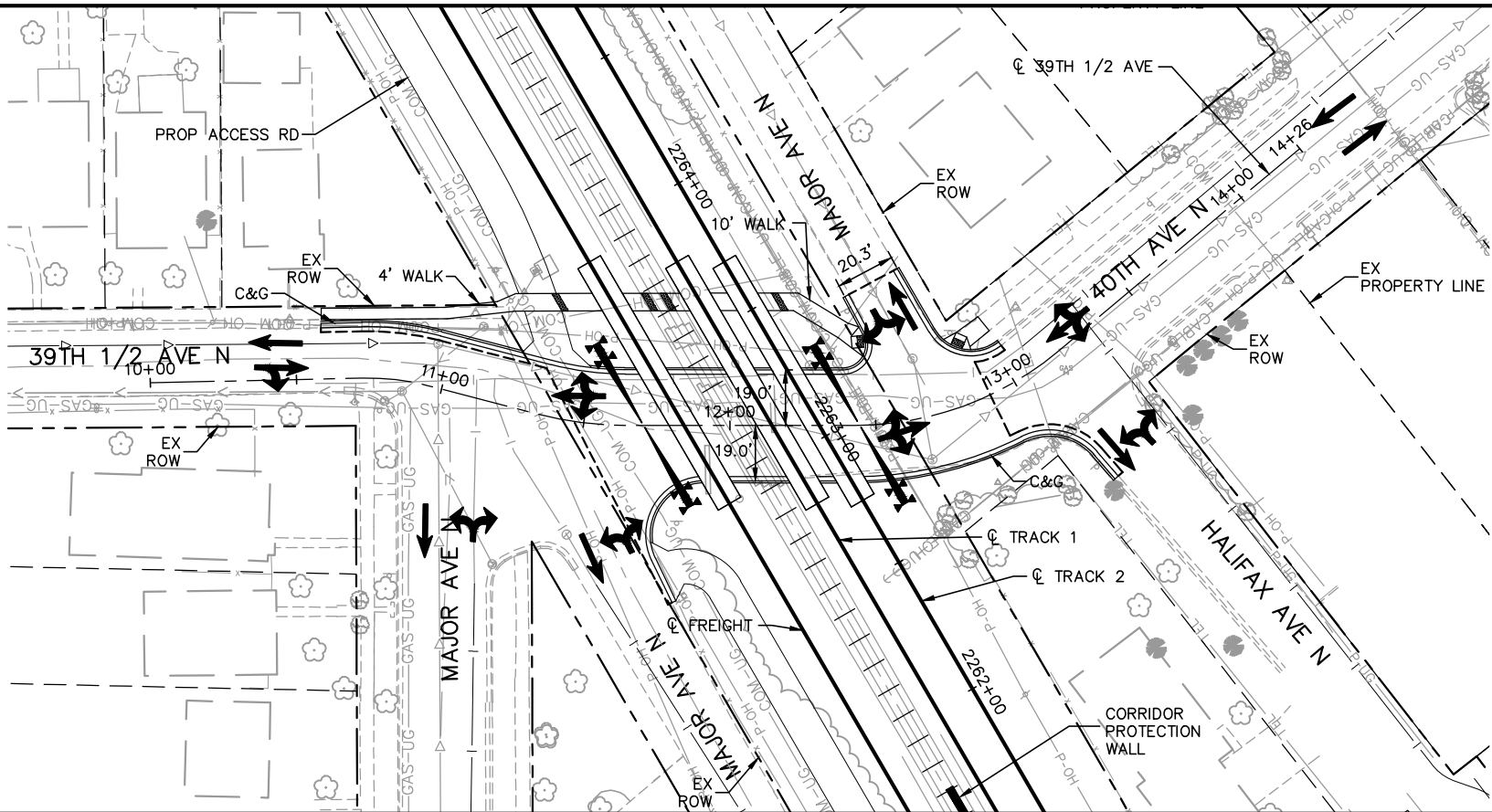


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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	    			SEGMENT R CIVIL TYPICAL SECTIONS		SHEET 83 OF 93
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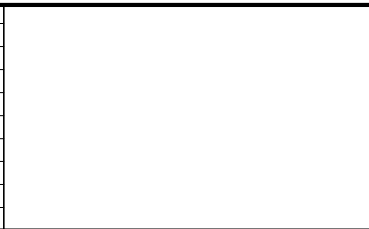


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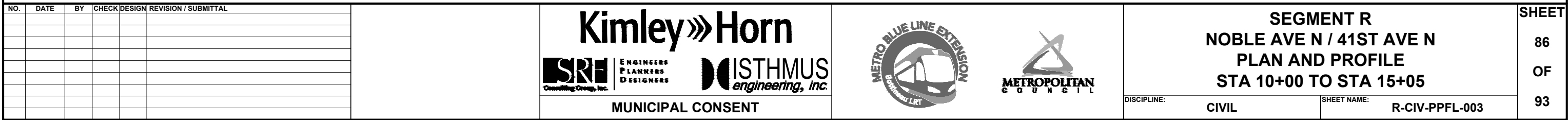


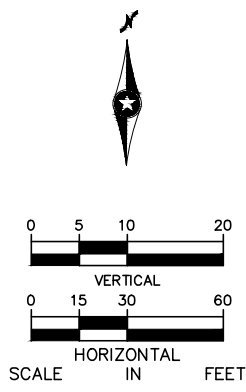
SEGMENT R
39TH 1/2 AVE N
PLAN AND PROFILE
STA 10+00 TO STA 14+26

DISCIPLINE: **CIVIL**

SHEET NAME: **R-CIV-PPFL-002**

SHEET
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93





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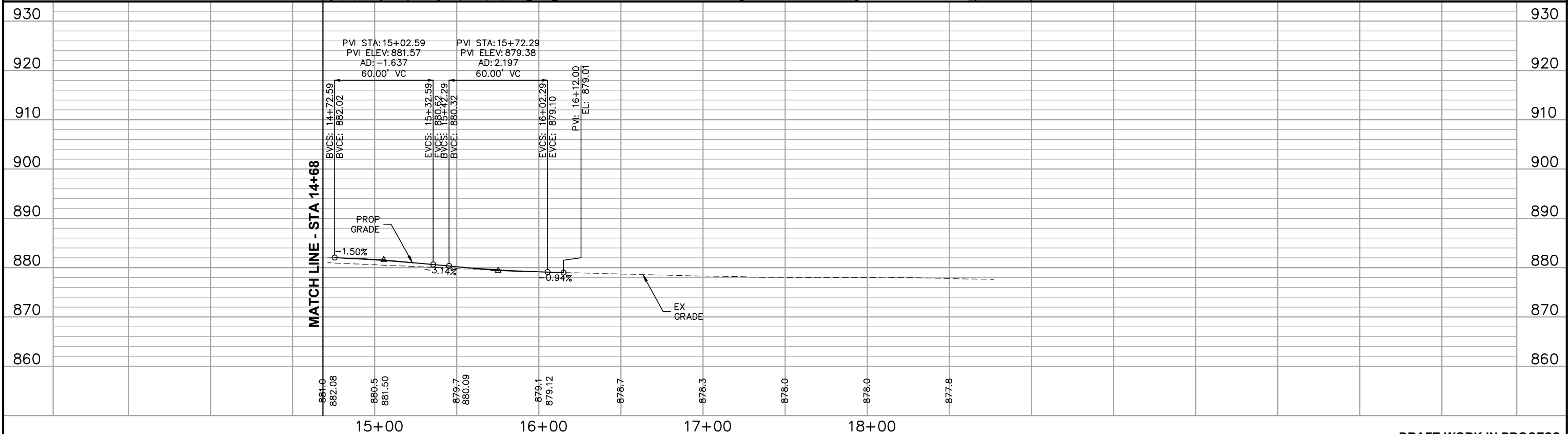
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PLANNERS
DESIGNERS** **ISTHMUS**
Consulting Group, Inc. *engineering, inc.*

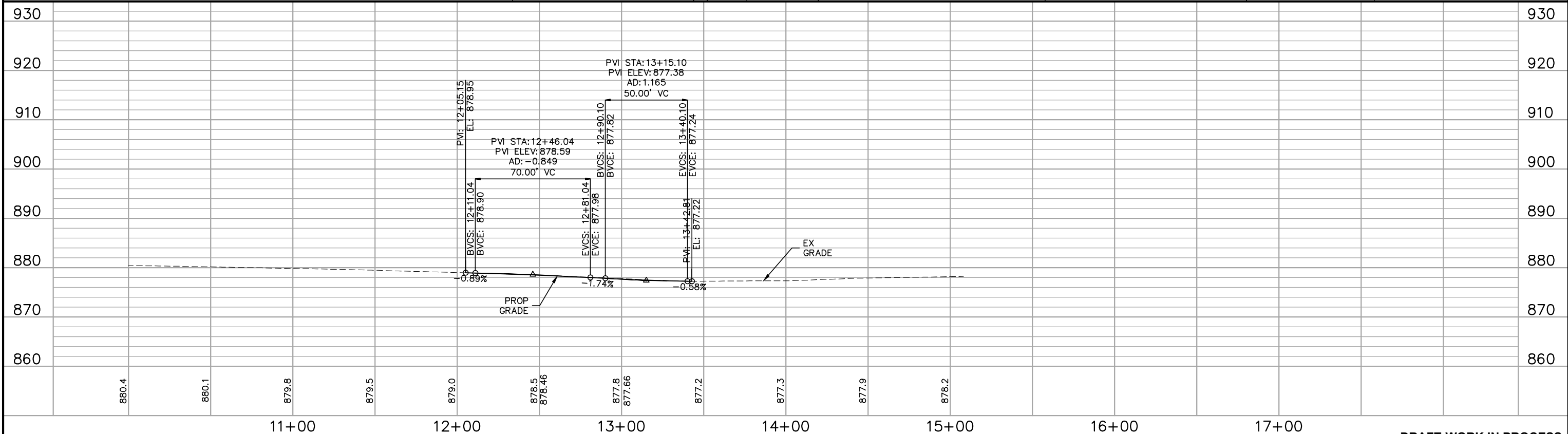
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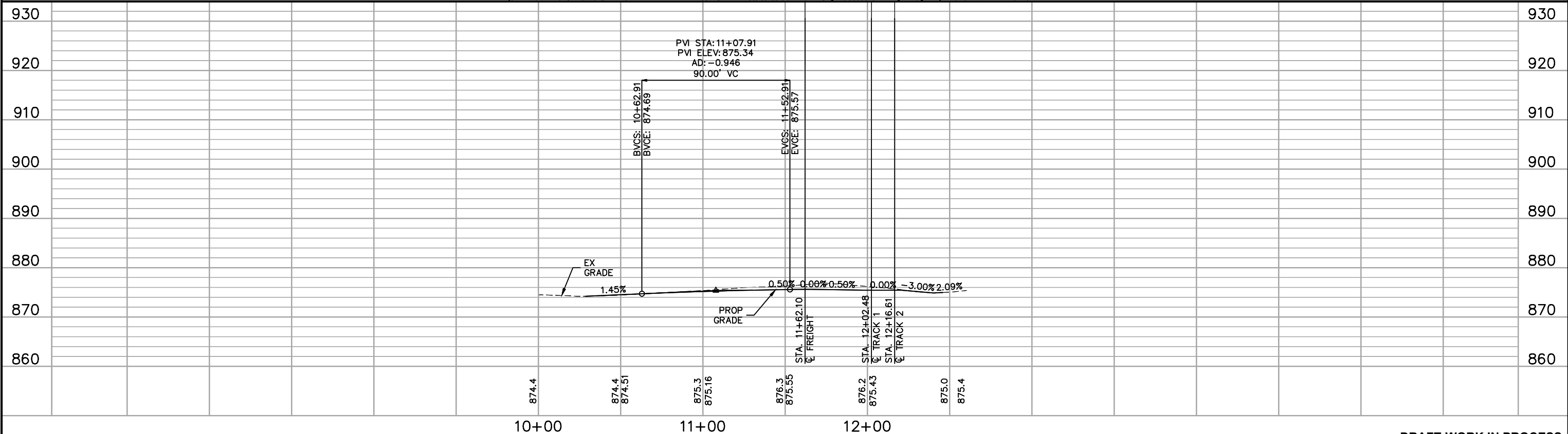
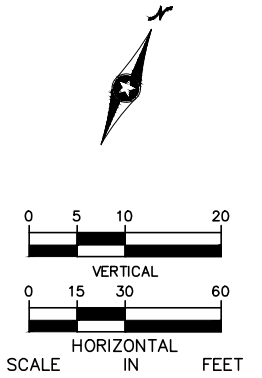
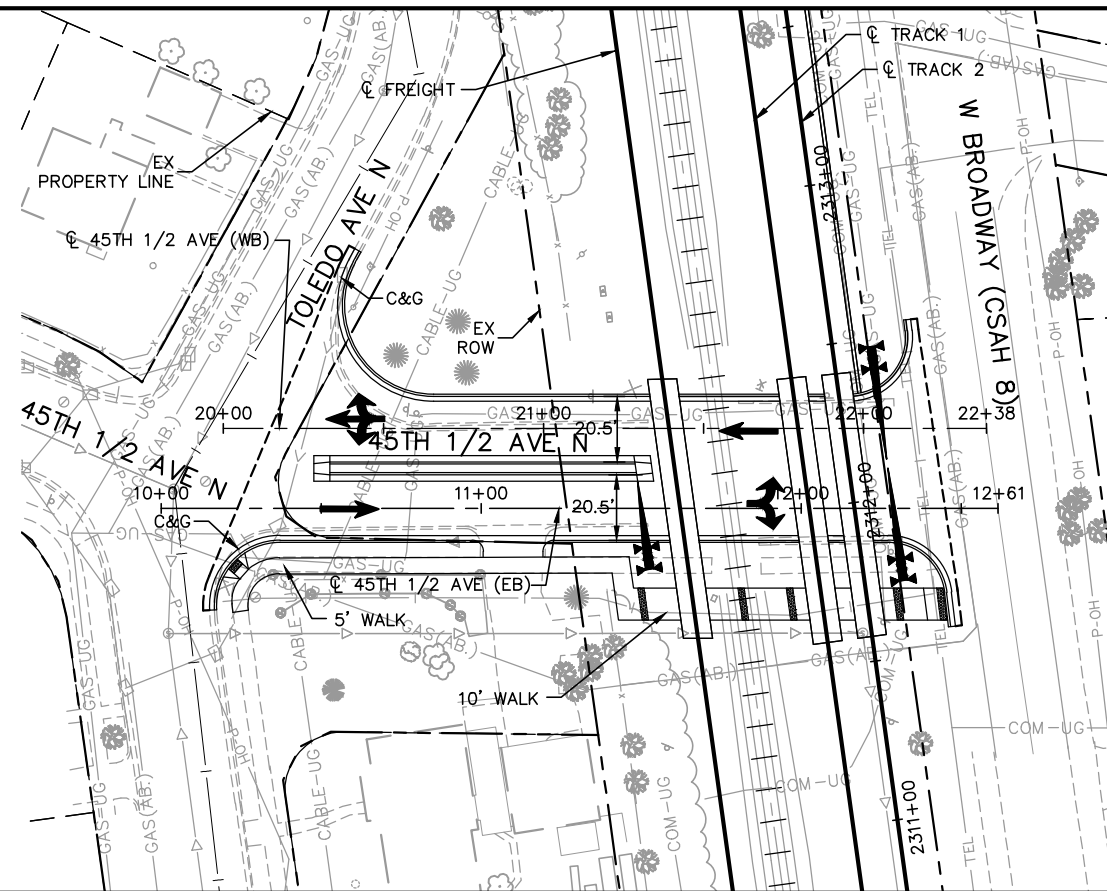


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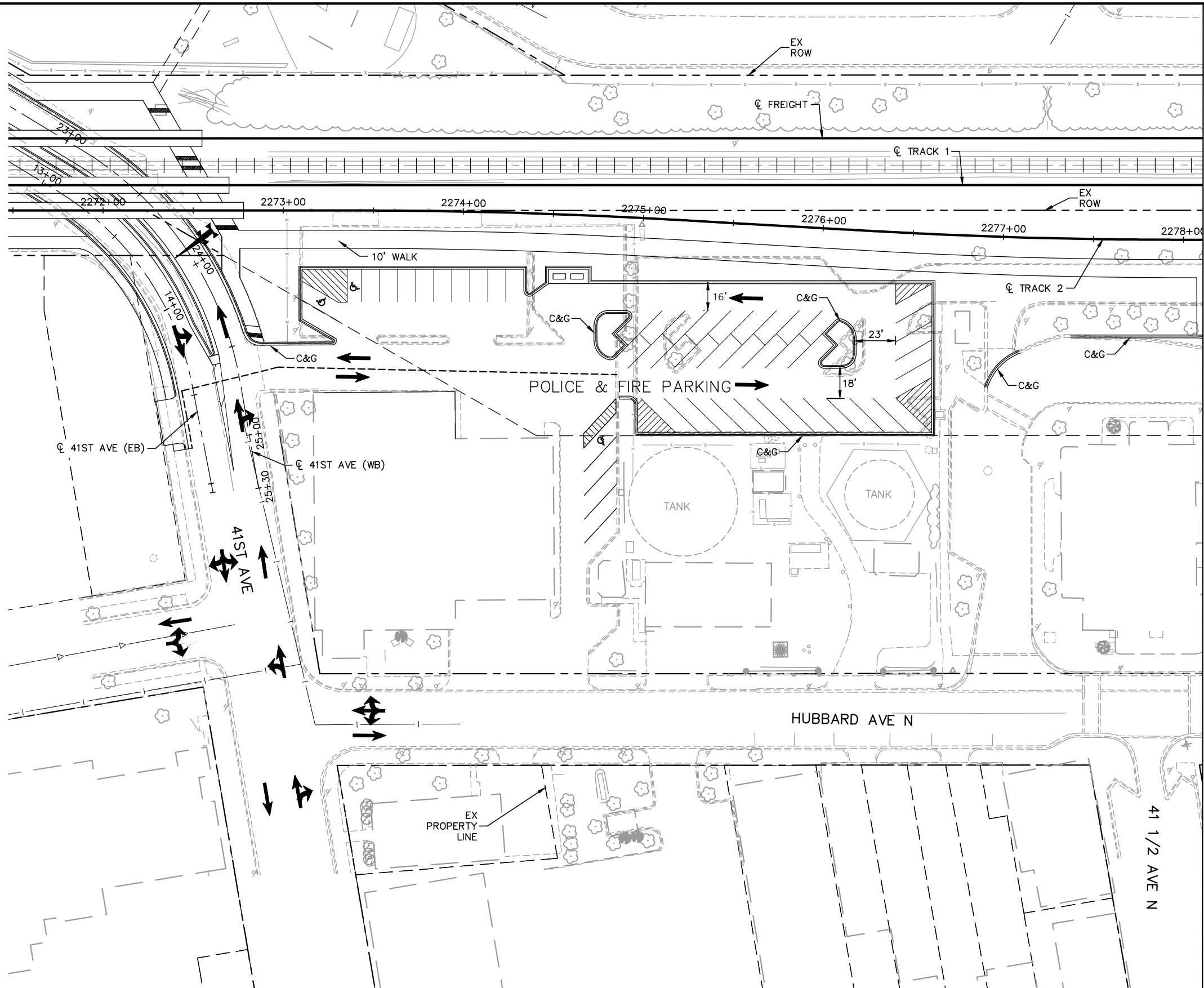
SHEET
87
OF
93

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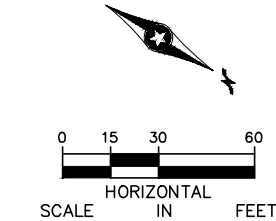
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SEE SHEET 92





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**SEGMENT R
ROBBINSDALE STATION
SITE PLAN SOUTH**

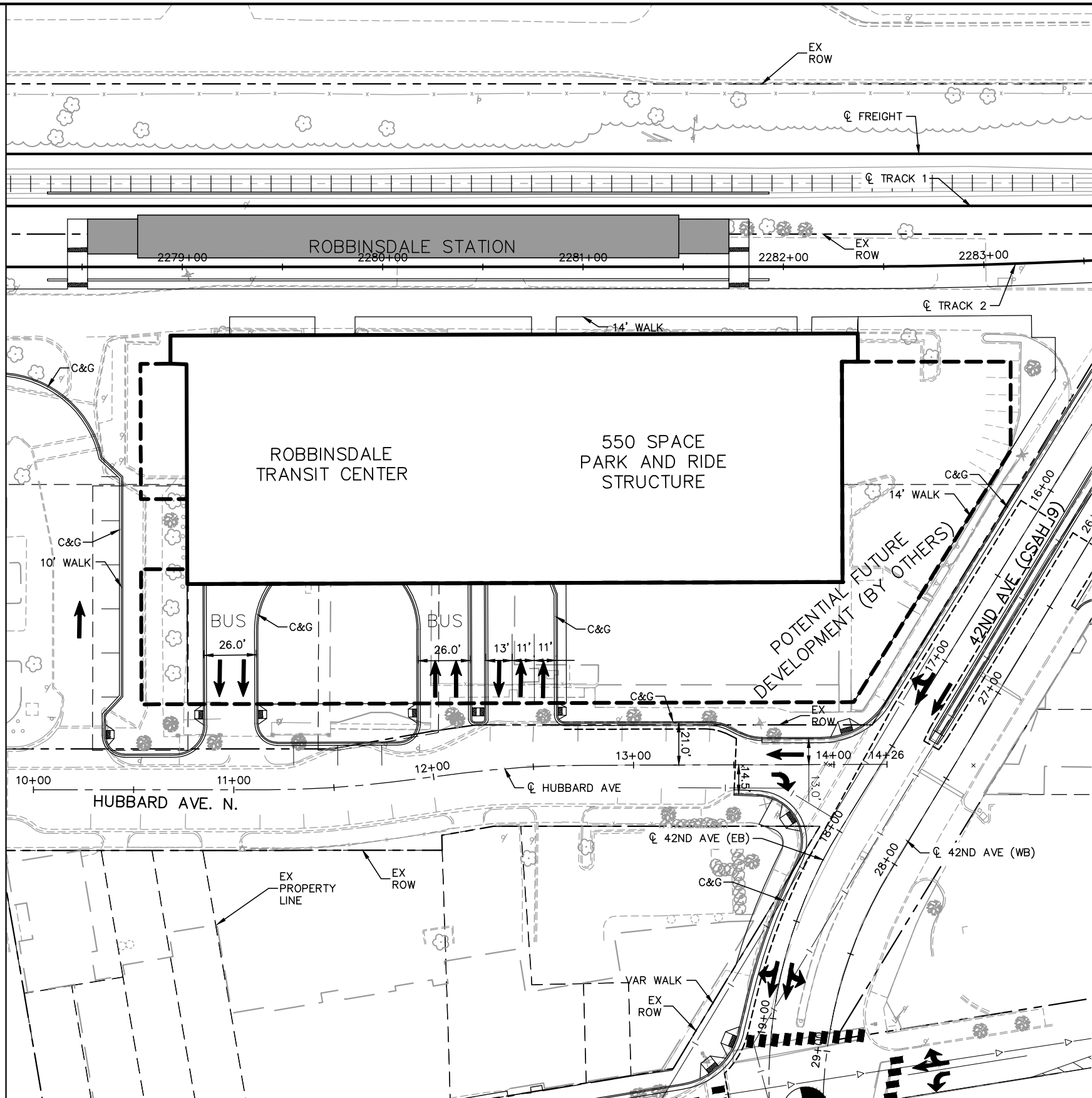
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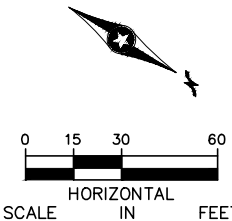
SHEET
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93

Dec, 03 2015 05:48 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\CIV\PLN.dwg By: V-MuelleAL

SEE SHEET 91



- NOTES:
① 550 PROVIDED PARKING STALLS
550 REQUIRED PARKING STALLS



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PLANNERS
DESIGNERS**

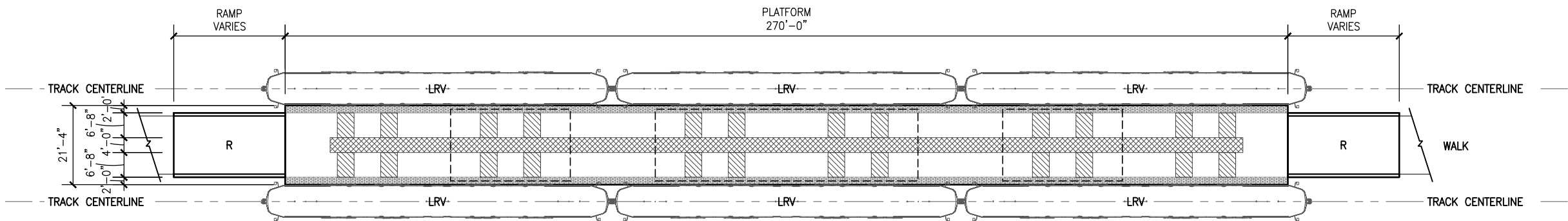
 **ISTHMUS
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SEGMENT R ROBBINSDALE STATION SITE PLAN NORTH		SHEET
DISCIPLINE: CIVIL		92
SHEET NAME: R-CIV-PLN-002		OF
		93

Dec, 07 2015 04:14 pm H:\BPO\550_Design_Consultant\CAD\004-SEGMENT-R\MC\PLAN SHEETS\ARCH\R-ARC-STA-PLN.dwg By: V-MuelleAL

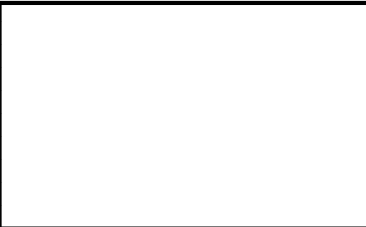


STATION PLATFORM ELEMENTS:

- R** APPROACH RAMP
 - LESS THAN 5% SLOPE
 - HAND RAIL ON BOTH SIDES
- [Empty Box]** PATRON CIRCULATION ZONE
 - CLEAR OF OBSTRUCTIONS
 - WIDE ENOUGH TO ALLOW COMFORTABLE PASSAGE OF TWO PEOPLE
- [Diagonal Hatch]** TRAIN LOADING AND UNLOADING ZONE
 - AREAS WHERE TRAIN DOORS ARE LOCATED WHEN LRV IS AT STATION PLATFORM
- [Cross-hatch]** PATRON WAITING AREA AND STRUCTURE ZONE
 - FARE COLLECTION EQUIPMENT
 - COMMUNICATIONS AND ELECTRICAL EQUIPMENT
 - INFORMATION KIOSKS
 - TRASH CANS
 - SIGNAGE
- [Dashed Box]** POTENTIAL SHELTER AND CANOPY STRUCTURE
 - COVERED WINDSCREEN/SHELTER AREAS WITH BENCHES AND LEAN RAILS
 - PROTECTION AT BOARDING AREAS
- [Dotted Box]** BOARDING EDGE
 - ADA DETECTABLE WARNING AT EDGE OF PLATFORM



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miller dunwiddie
ARCHITECTURE

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SEGMENT R

TYPICAL CENTER PLATFORM PLAN

DISCIPLINE: ARCHITECTURE

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