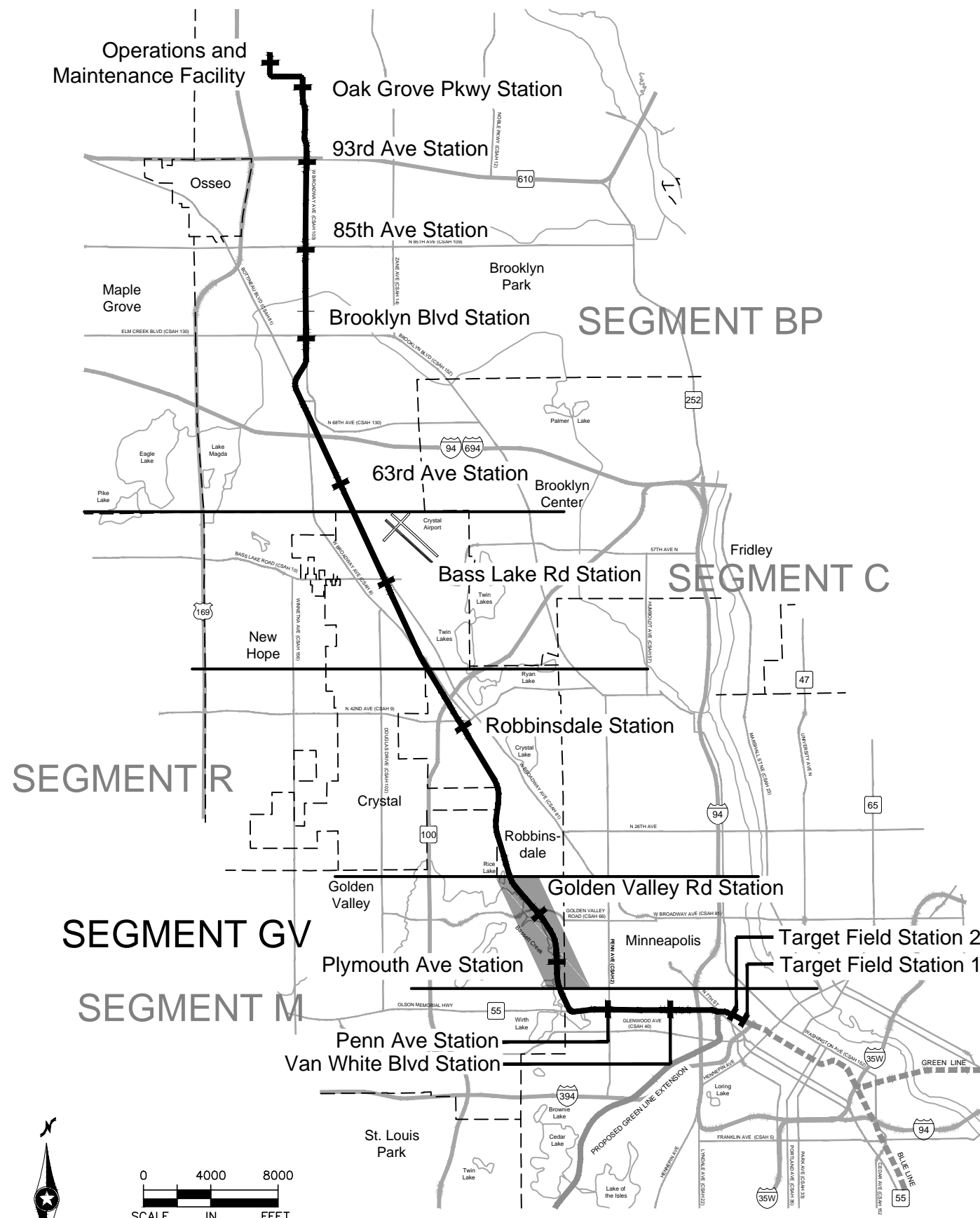


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SEGMENT GV

EXISTING CONDITIONS/TRACK/CIVIL

MUNICIPAL CONSENT (12/15/2015)

MN STATE STATUTE 473.3994

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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

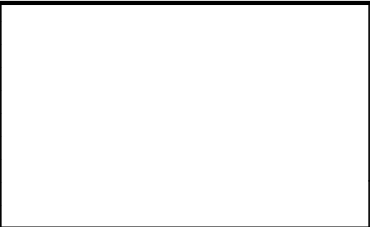
CIVIL SYMBOLS	
	ACCESSIBLE PEDESTRIAN CURB RAMP (DESIGN VARIES)
	PROPOSED SIGNALIZED INTERSECTION
	PROPOSED DIRECTIONAL LANE USE
	HANDICAP PARKING STALL
	BIKE LANE
	TACTILE WARNING STRIP

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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SEGMENT GV
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LEGEND AND ABBREVIATIONS

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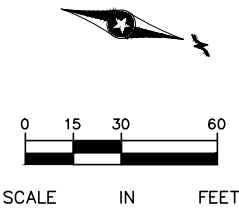
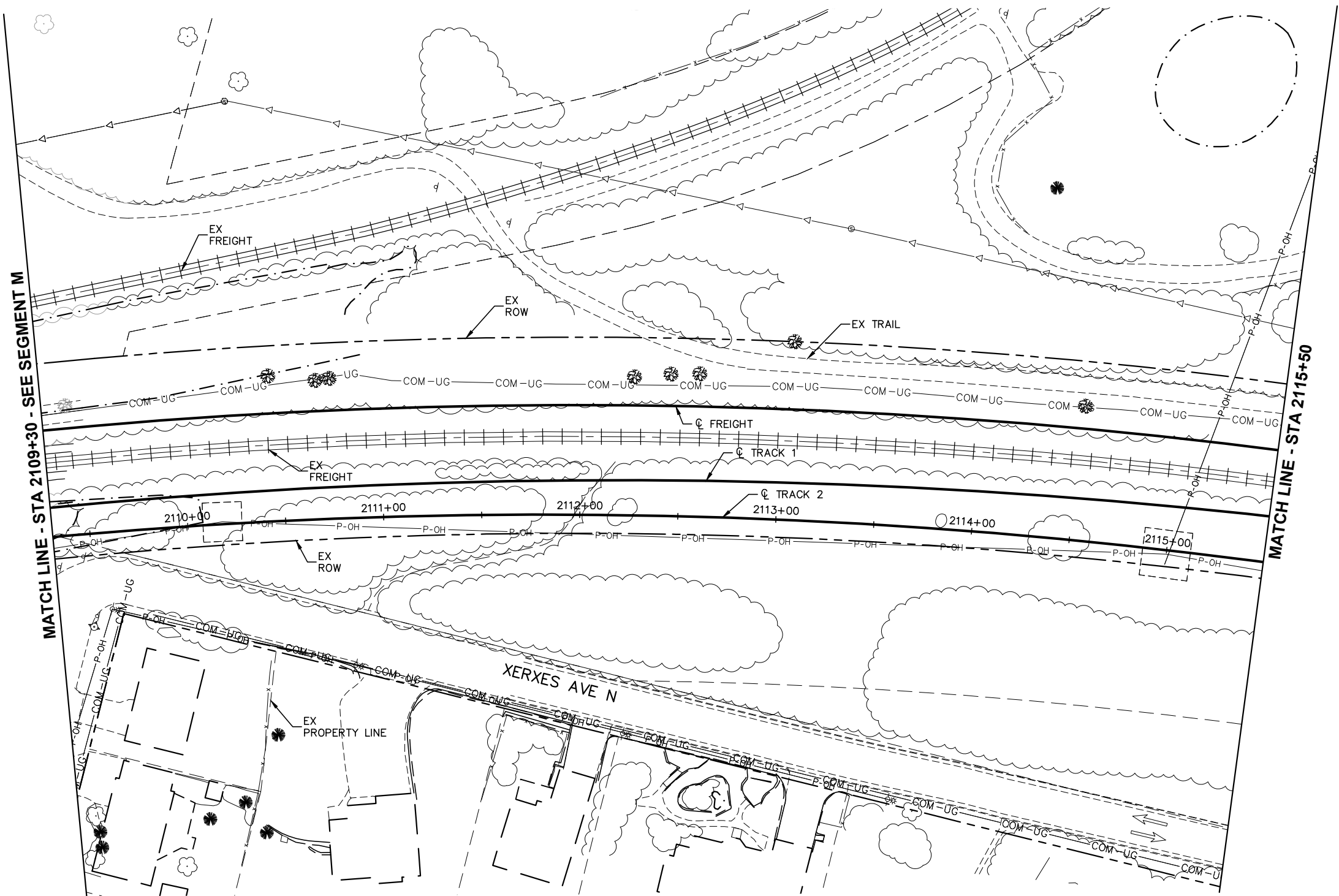
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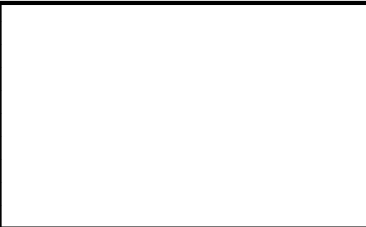
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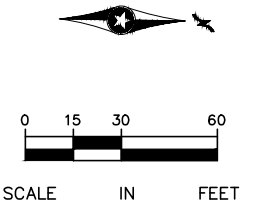
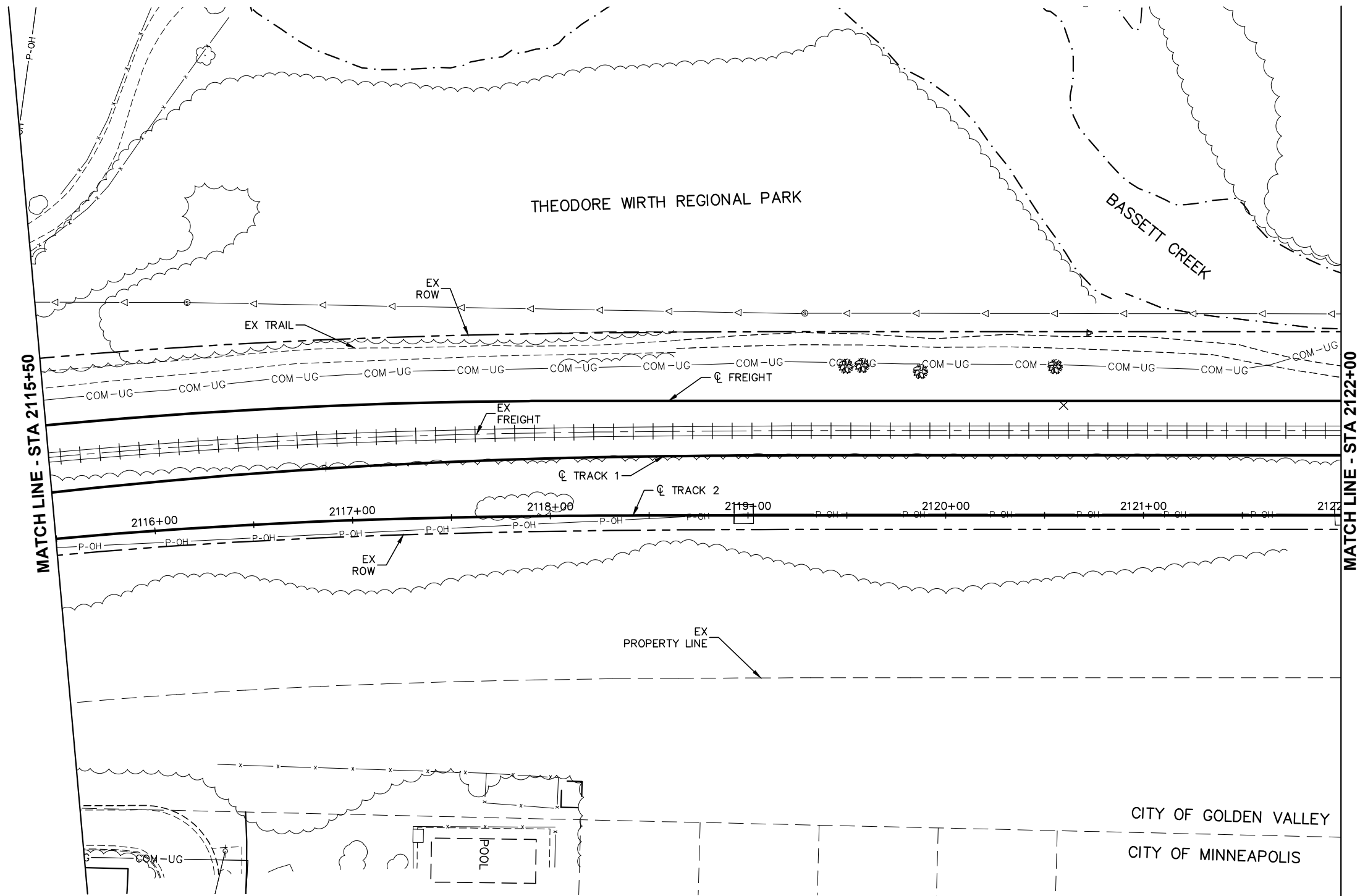
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STA 2109+30 TO STA 2115+50**

DISCIPLINE:
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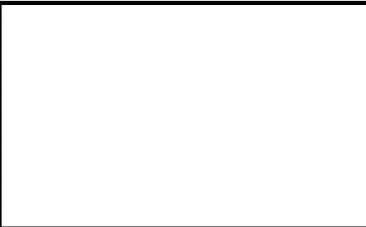
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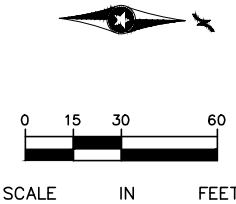
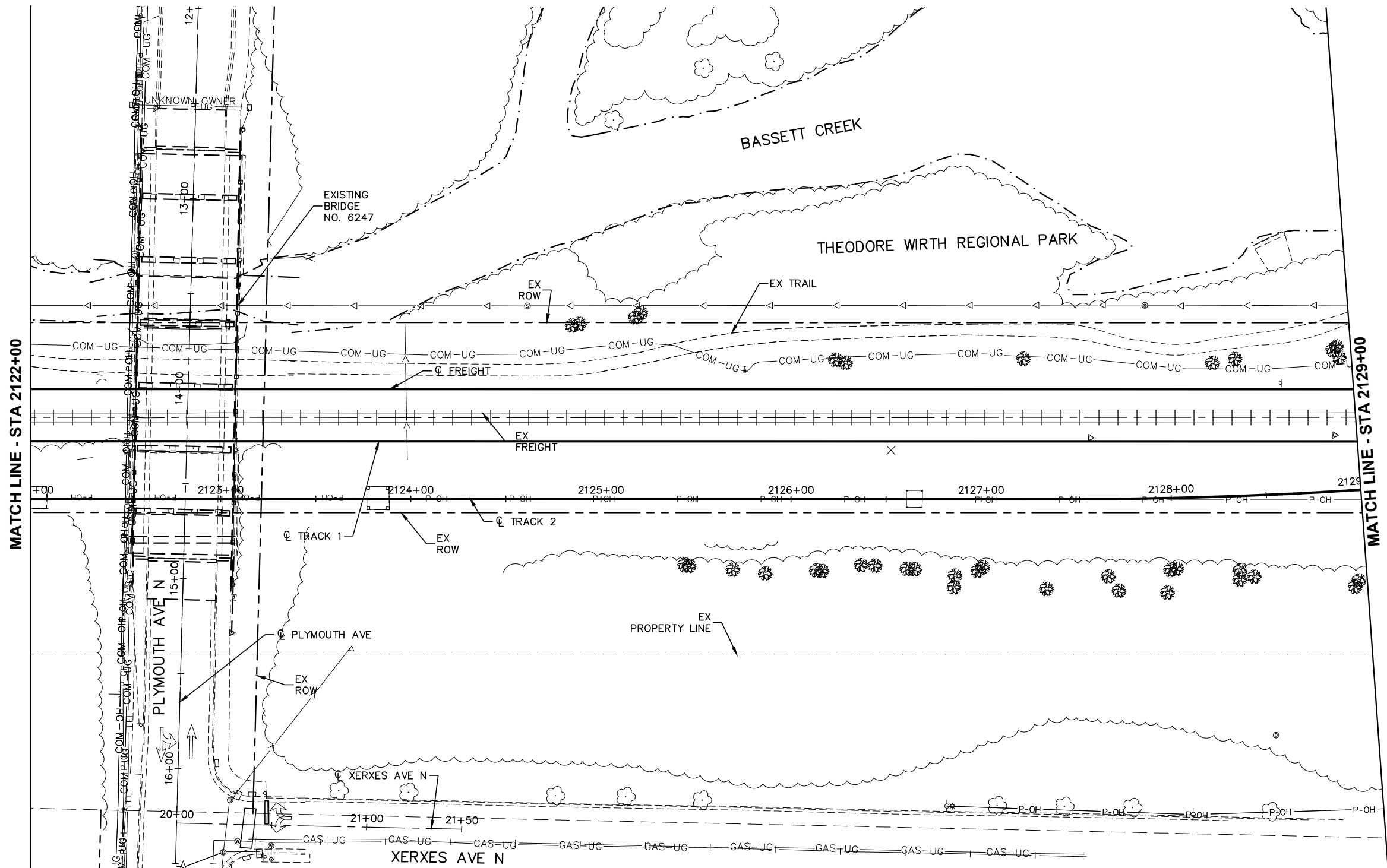
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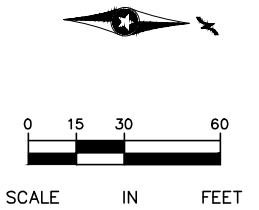
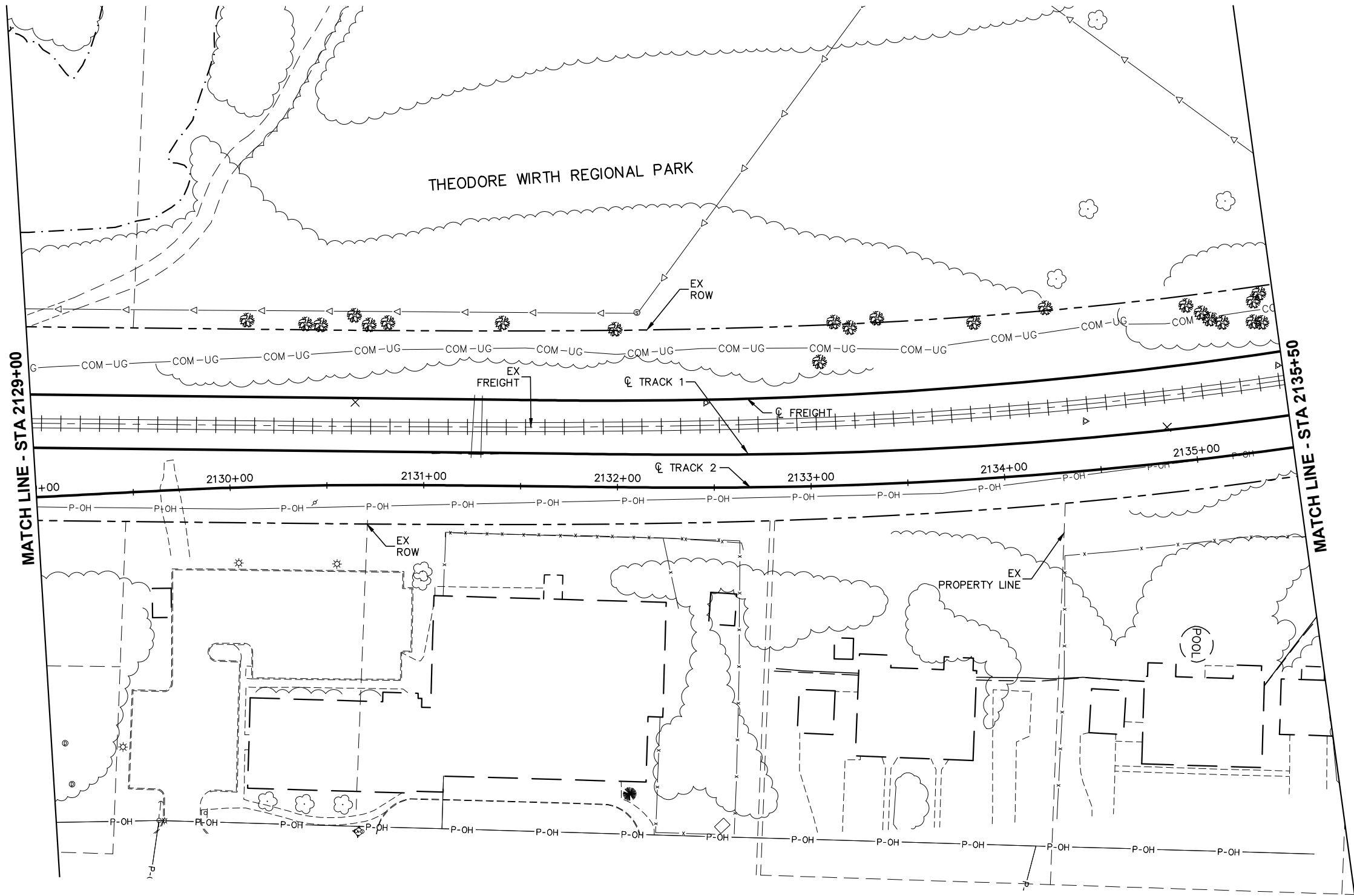
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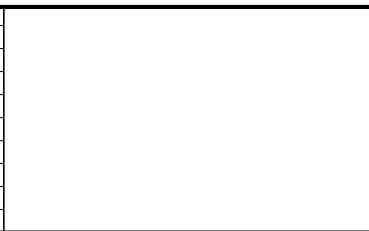
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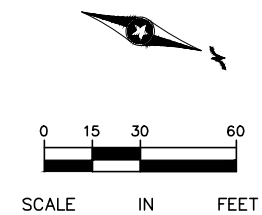
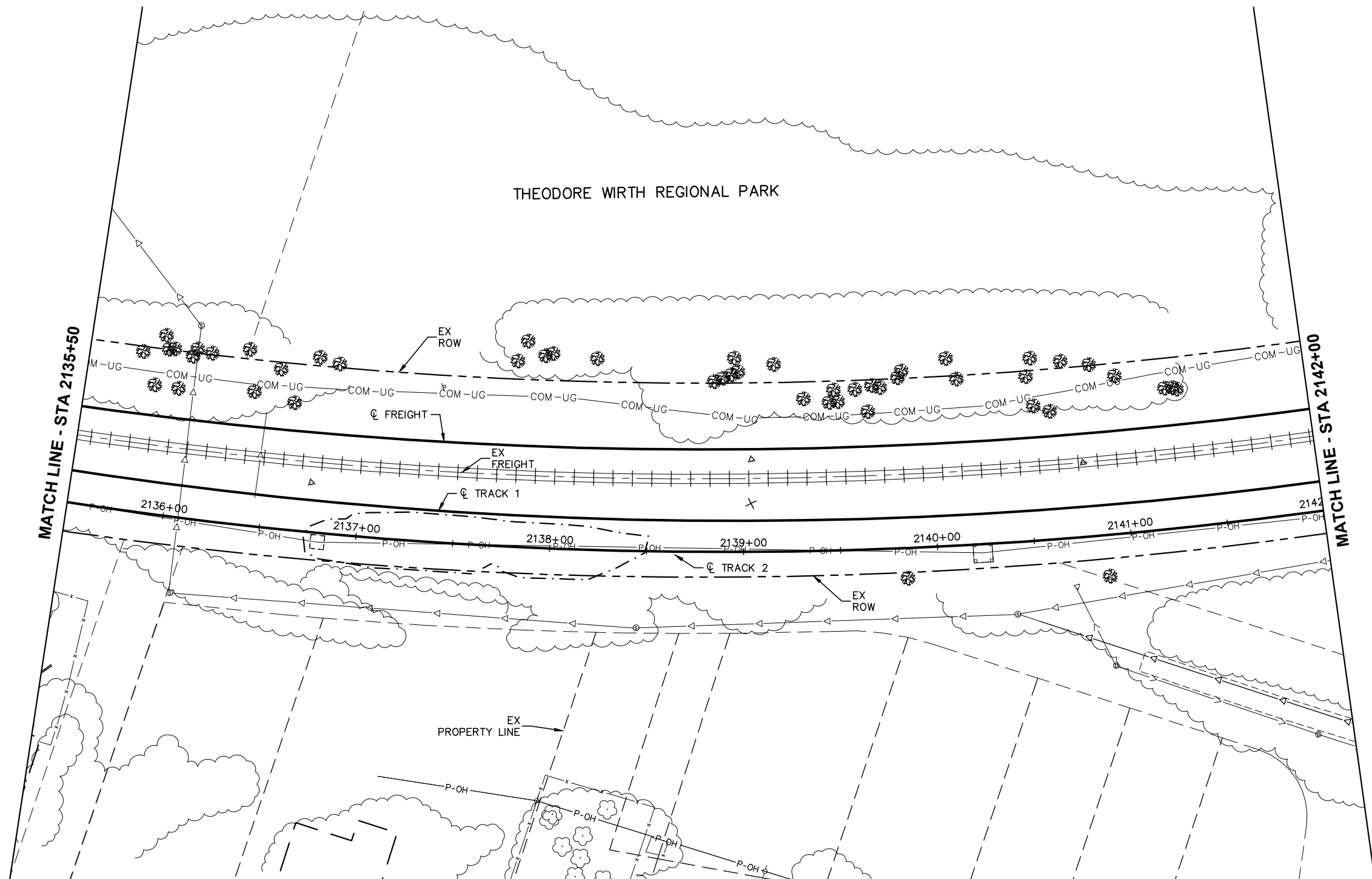
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DISCIPLINE:
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SHEET NAME:
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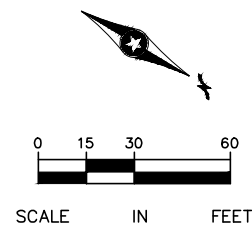
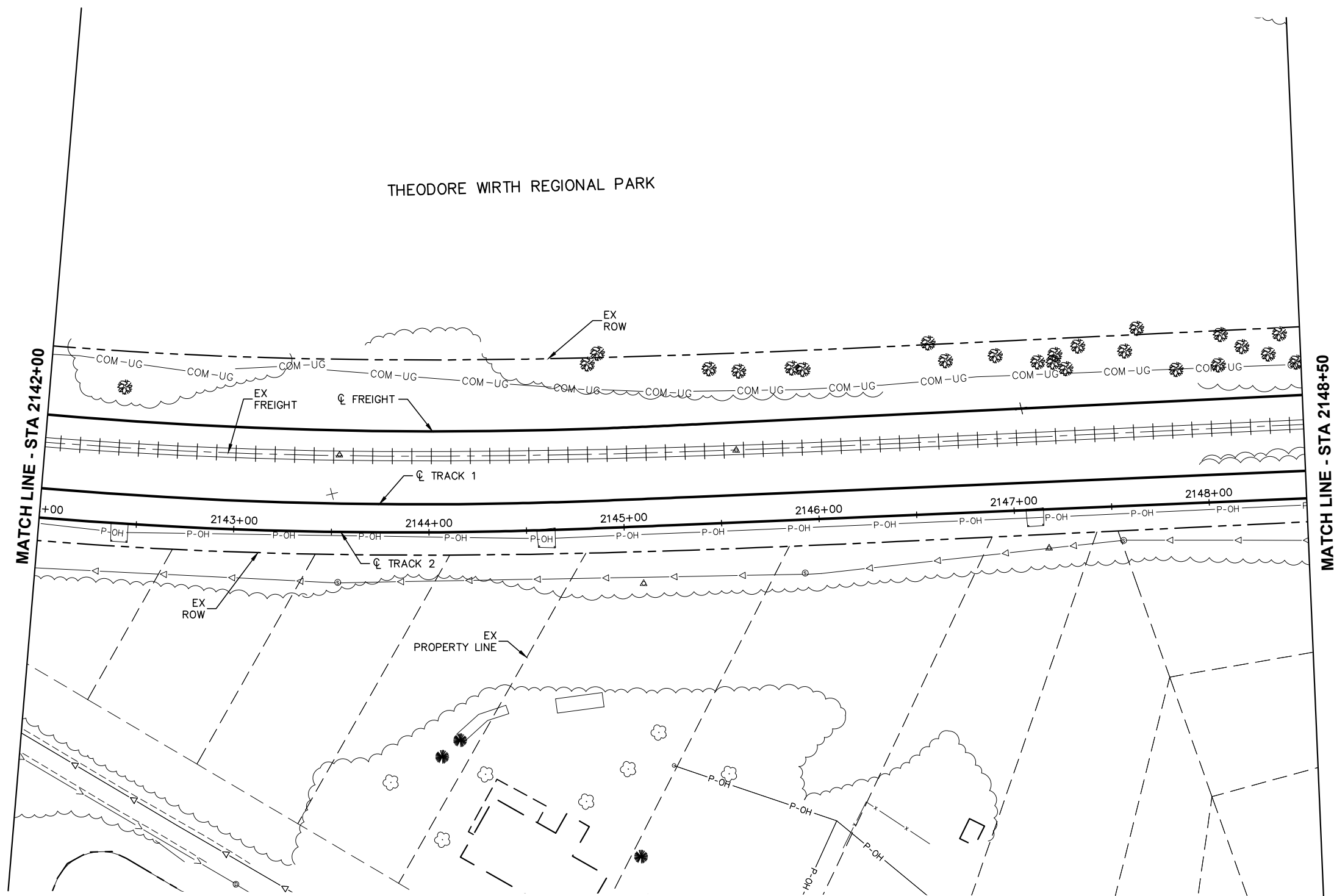
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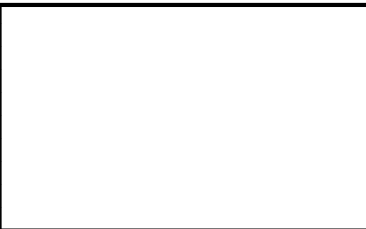
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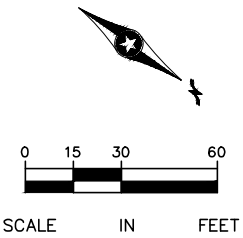
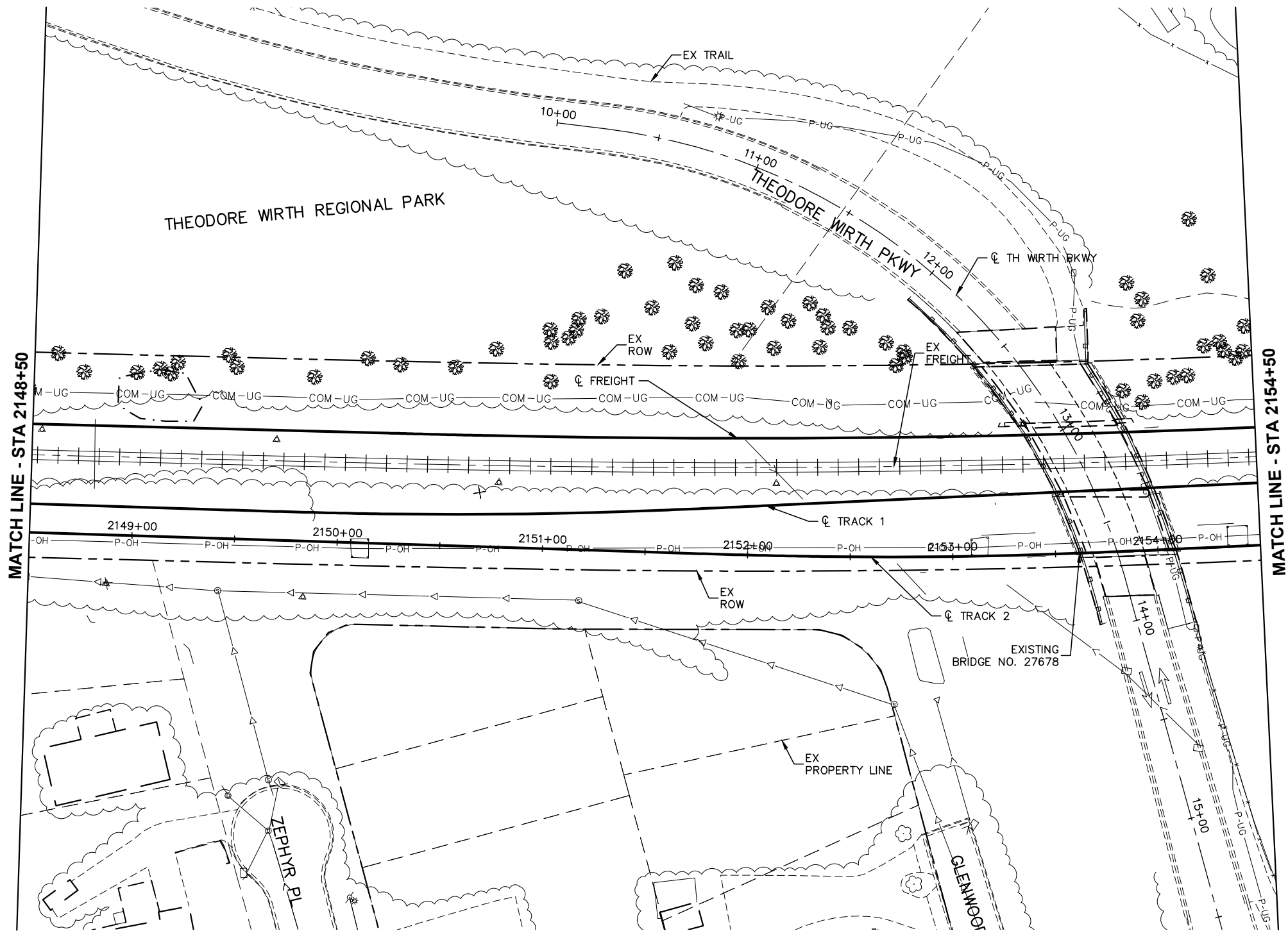
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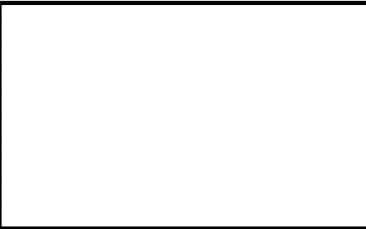
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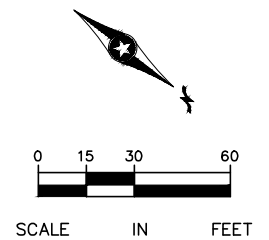
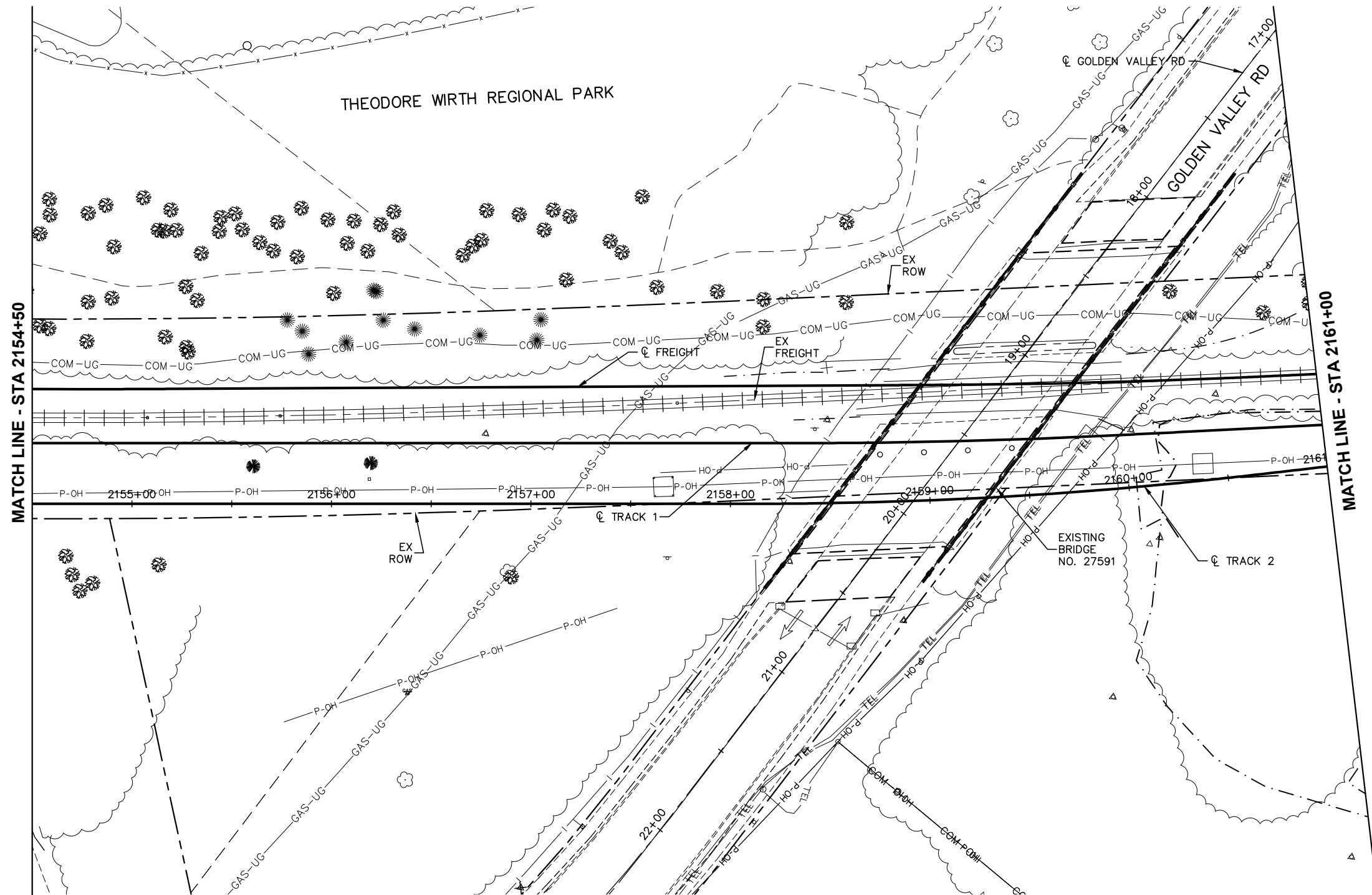
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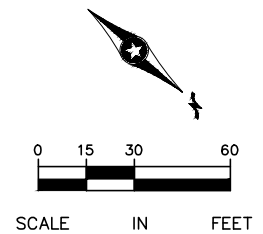
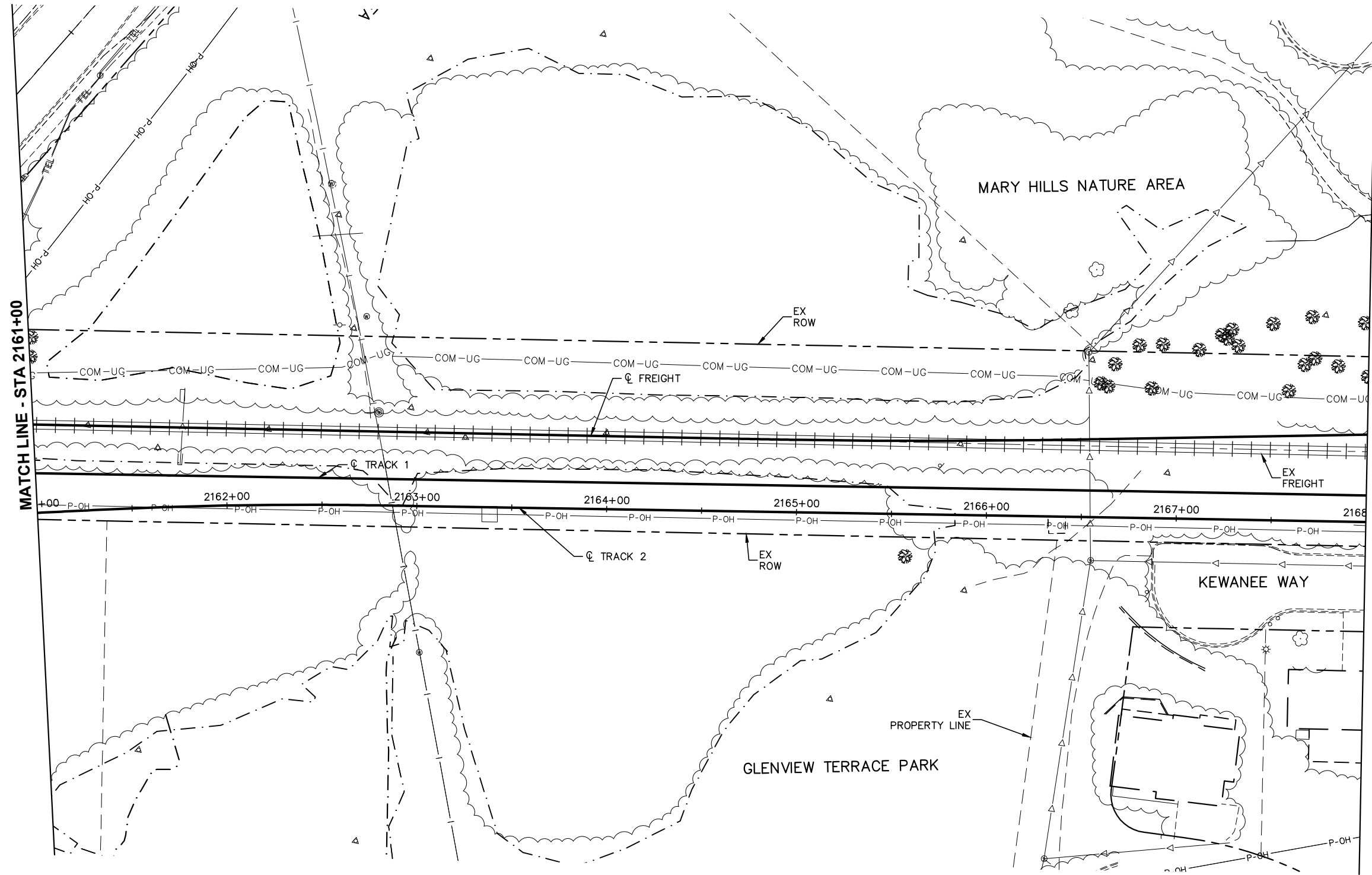


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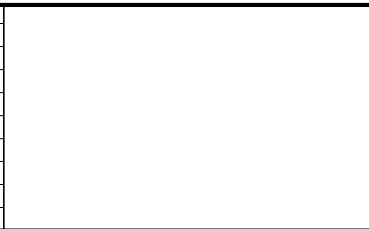
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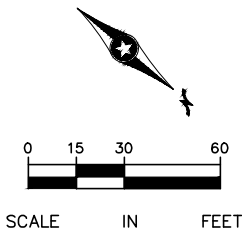
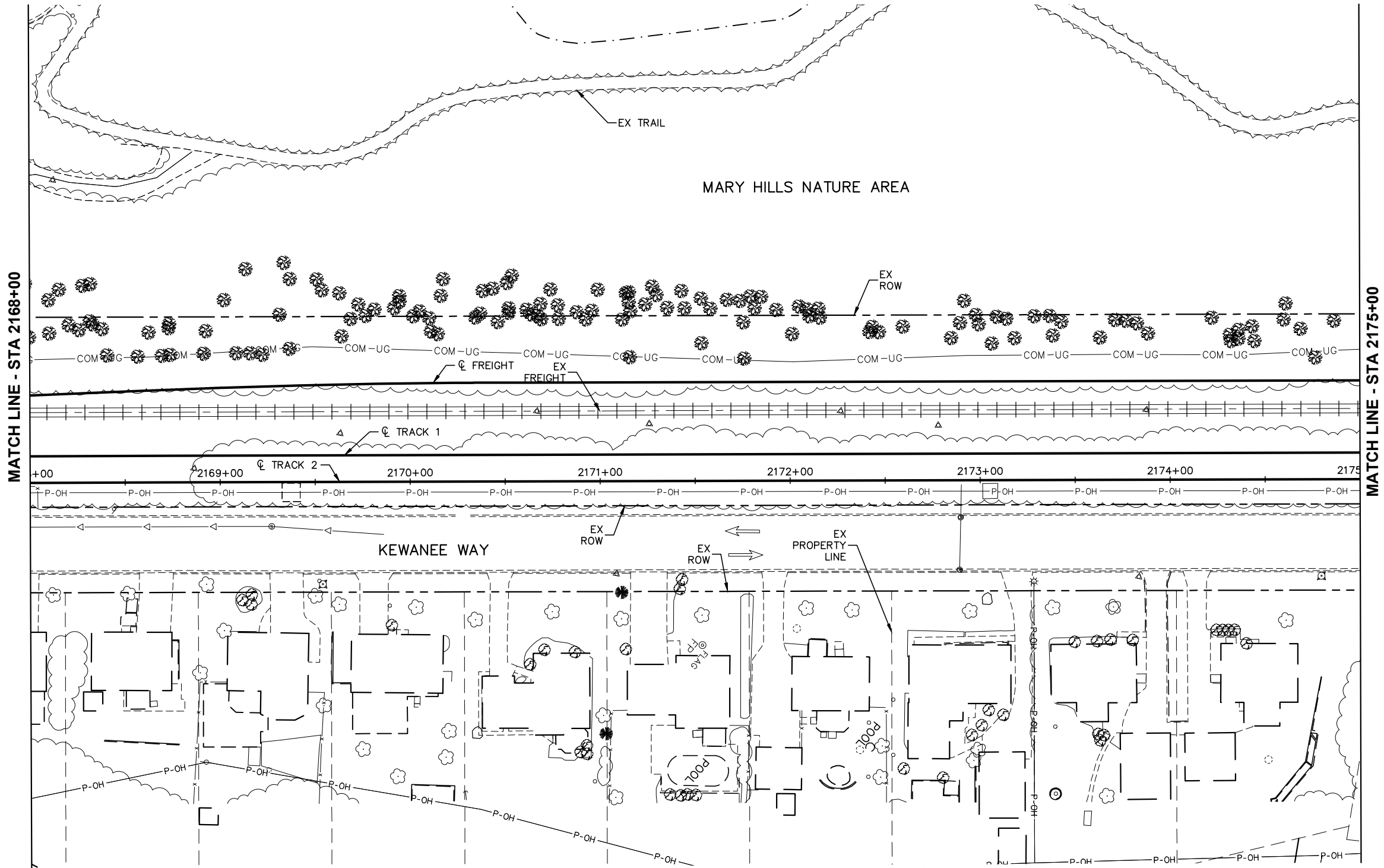


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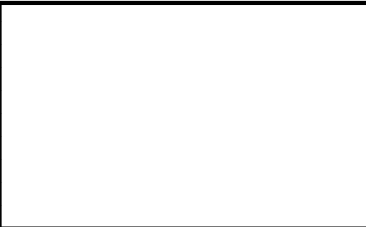
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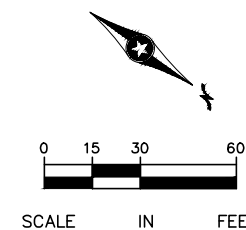
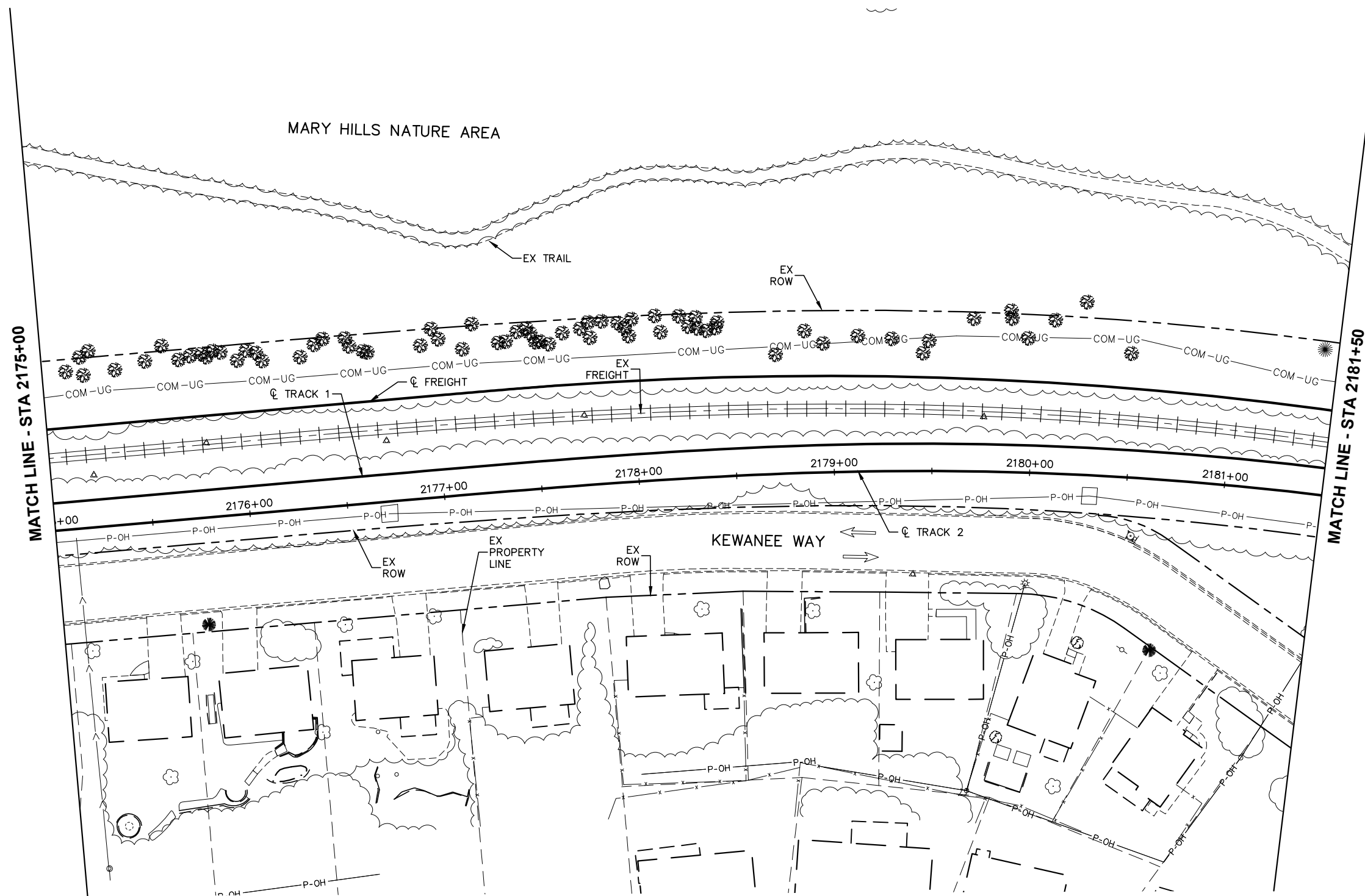
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DISCIPLINE:
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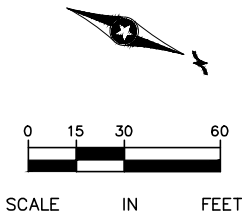
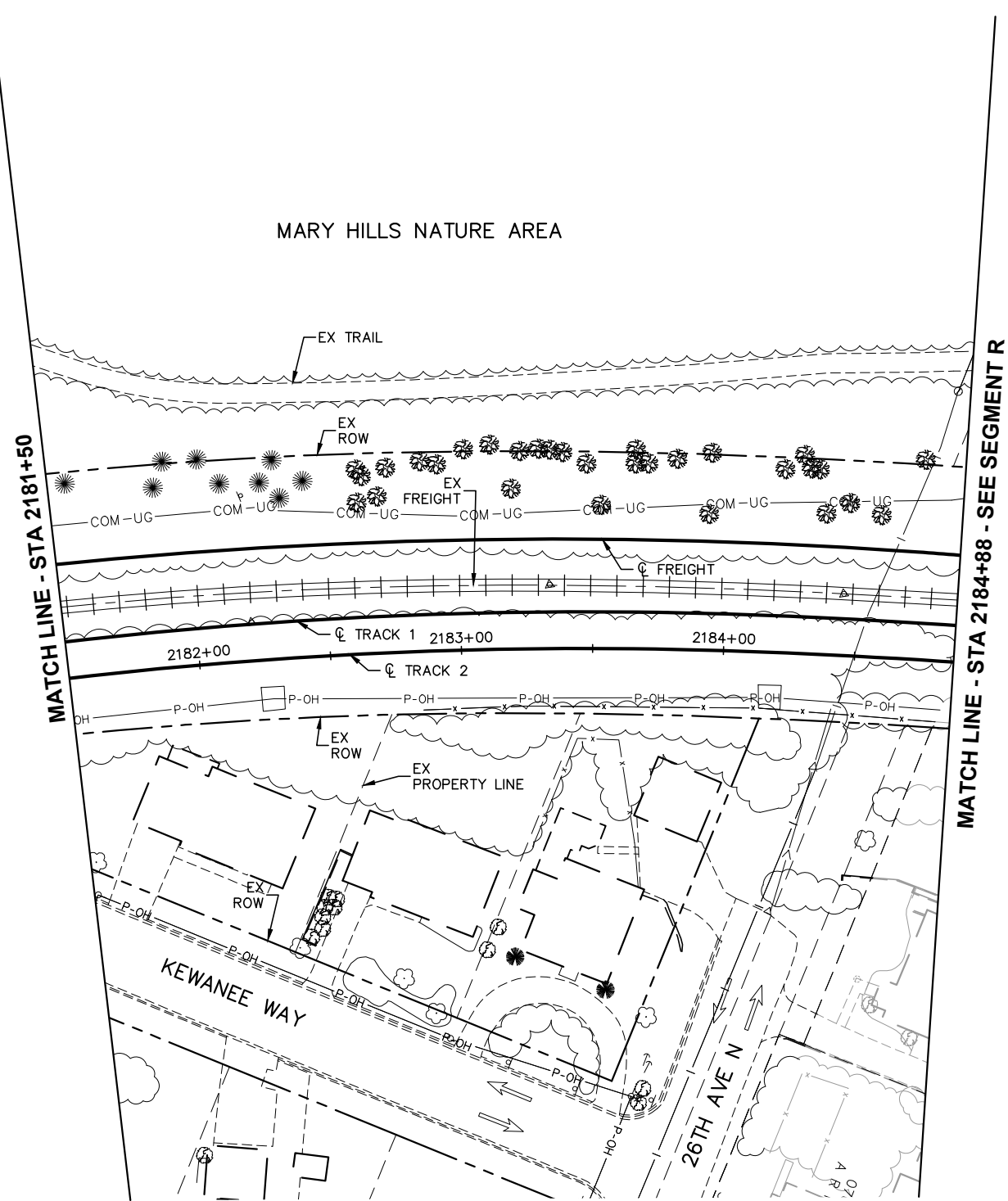
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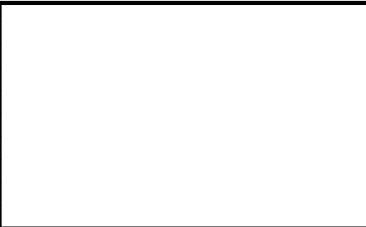
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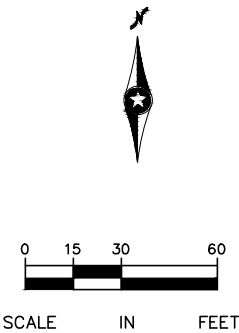
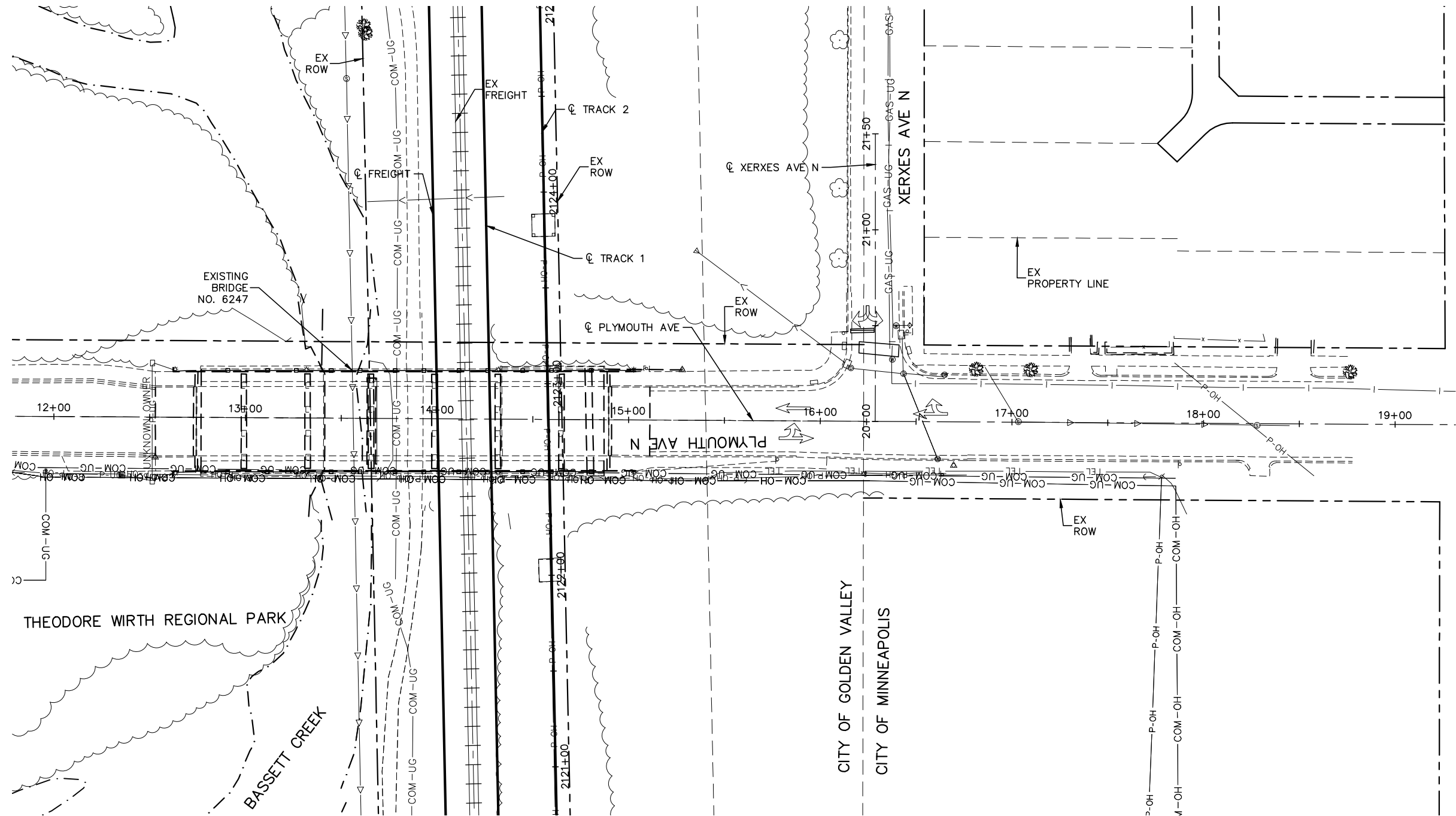
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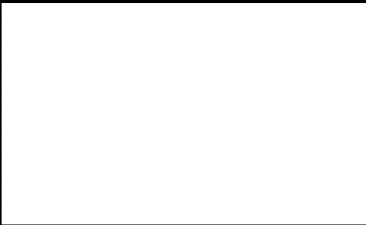
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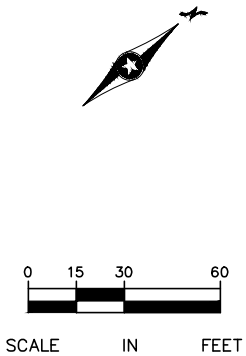
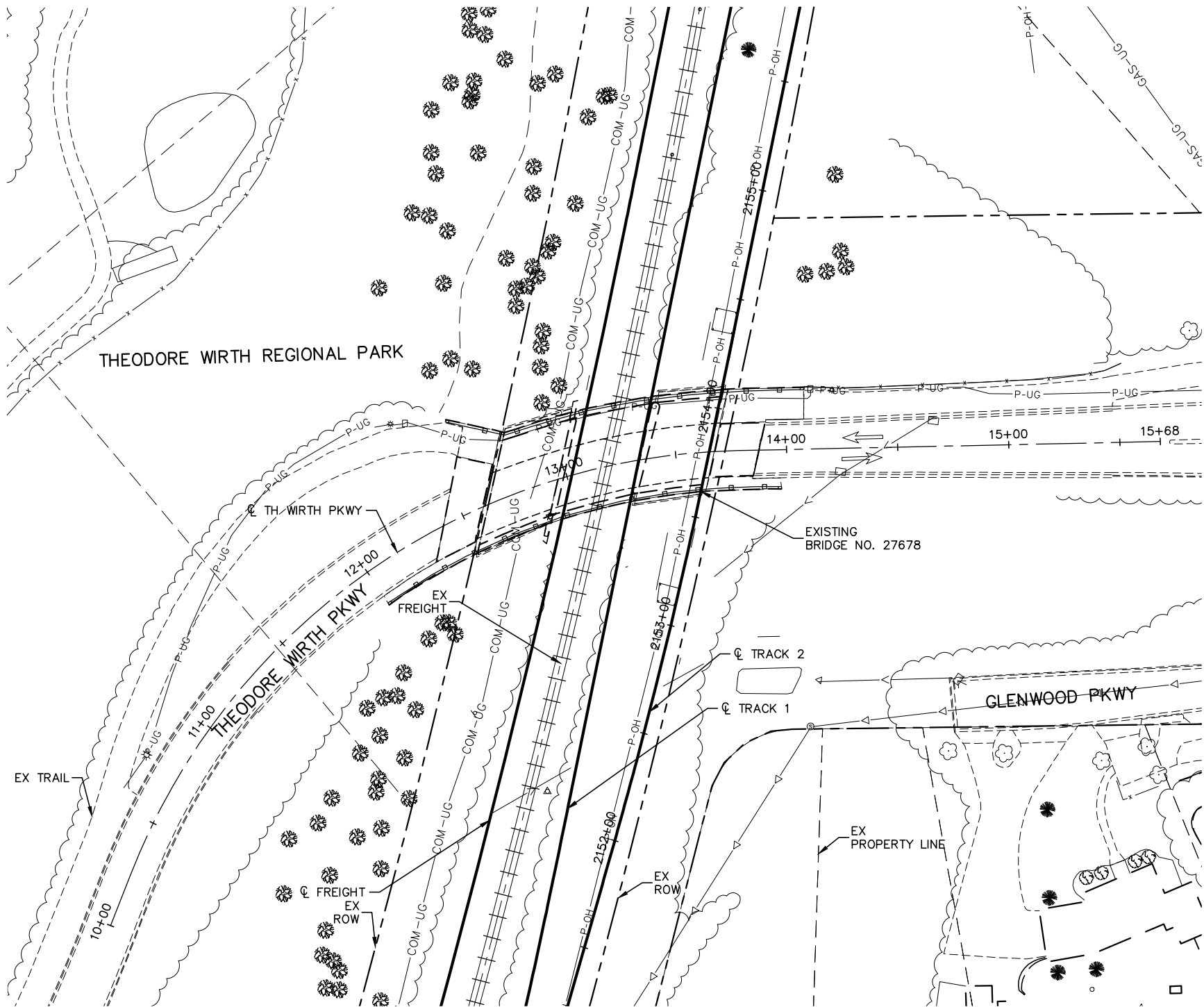
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DISCIPLINE: SURVEY

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Dec, 03 2015 12:30 pm H: \\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-EXCON-PLN.dwg By: V-NelsonHA



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



Engineering | Surveying | Planning | Environmental

MUNICIPAL CONSENT



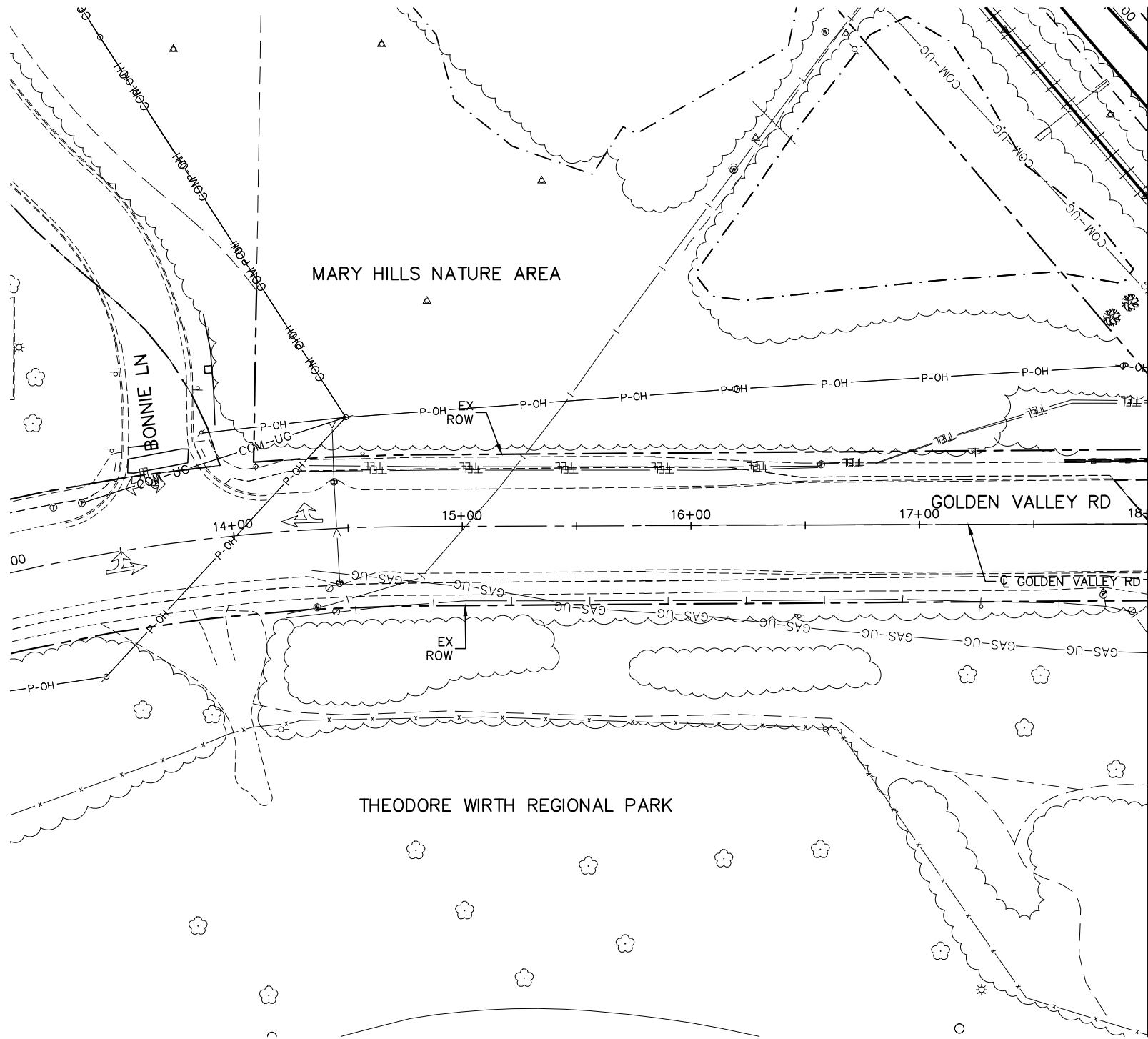
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SEGMENT GV
THEODORE WIRTH PKWY
EXISTING CONDITIONS
STA 10+00 TO STA 15+68

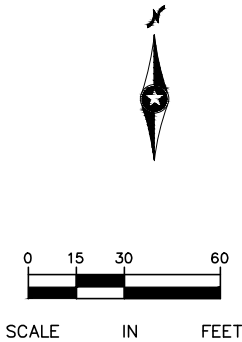
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SHEET 17 OF 79

Dec, 03 2015 12:30 pm H: \\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-EXCON-PLN.dwg By: V-NelsonHA



MATCH LINE - STA 18+00





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

Engineering | Surveying | Planning | Environmental

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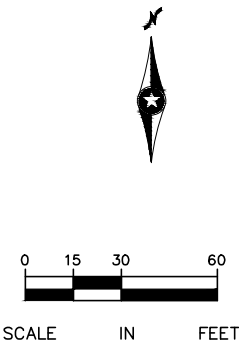
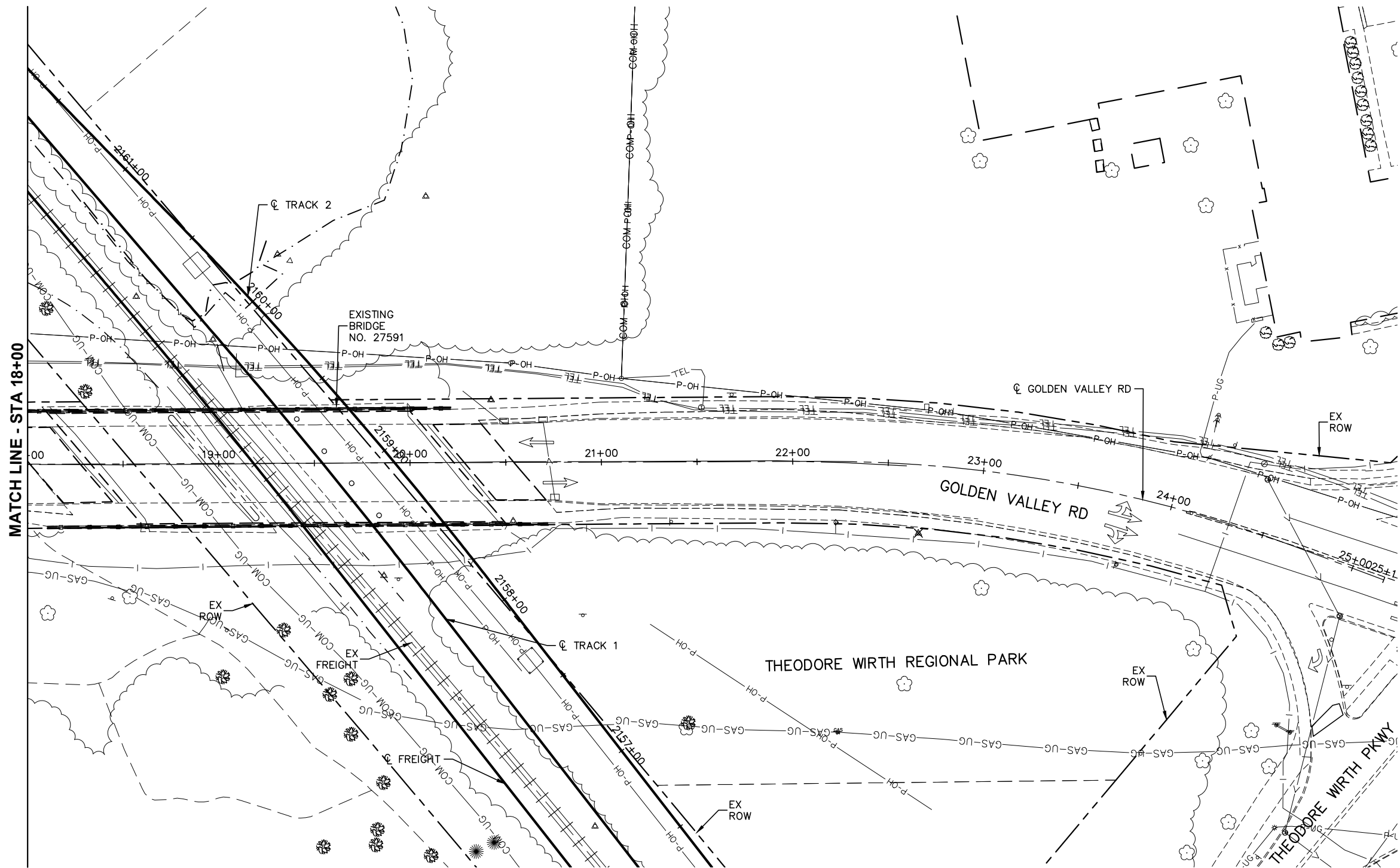
**SEGMENT GV
GOLDEN VALLEY RD
EXISTING CONDITIONS
STA 13+00 TO STA 18+00**

DISCIPLINE: **SURVEY**

SHEET NAME: **GV-EXCON-PLN-015**

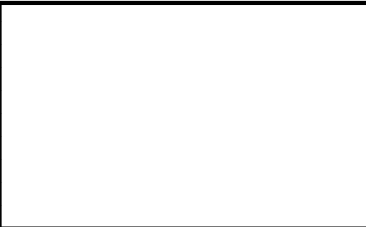
SHEET
18
OF
79

Dec, 03 2015 12:31 pm H: \BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\WC\PLAN SHEETS\CIVIL\GV-EXCON-PLN.dwg By: V-NelsonHA



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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Engineering | Surveying | Planning | Environmental

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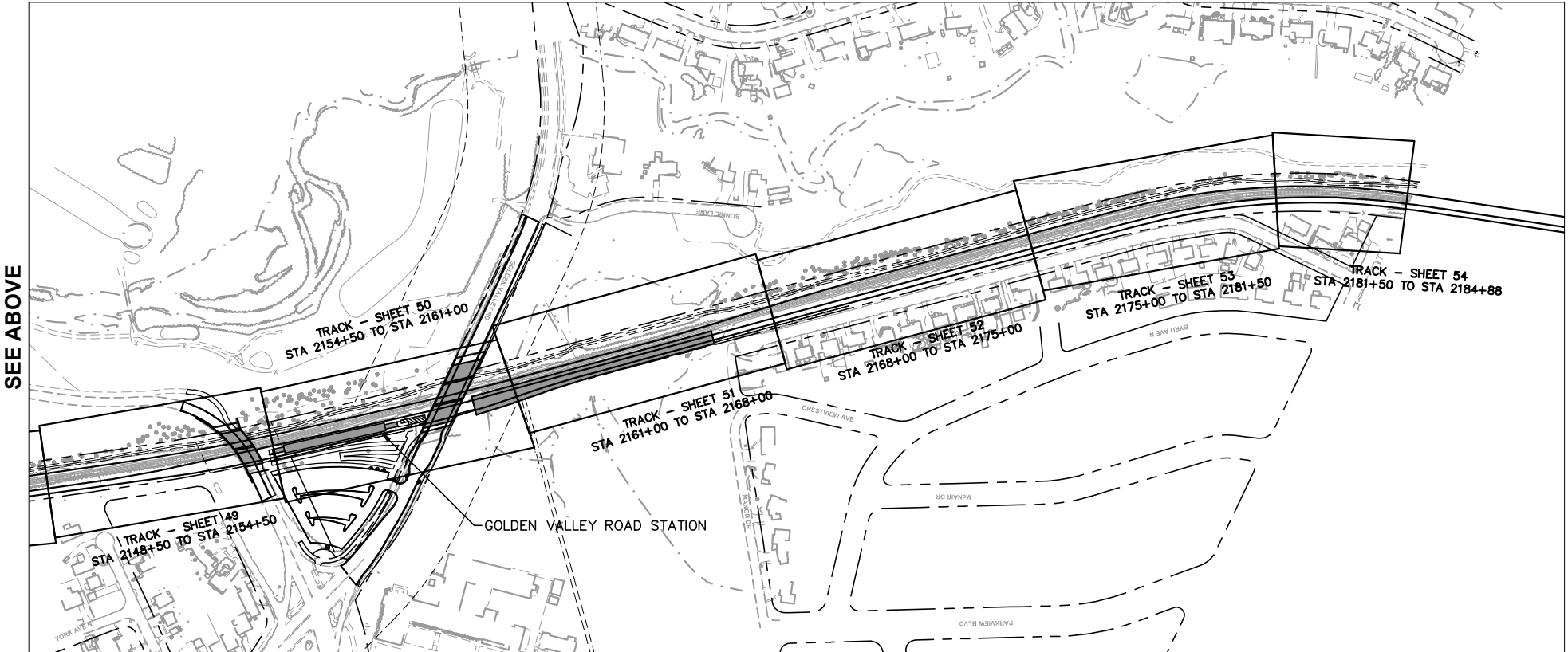
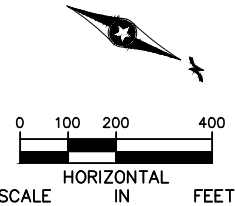
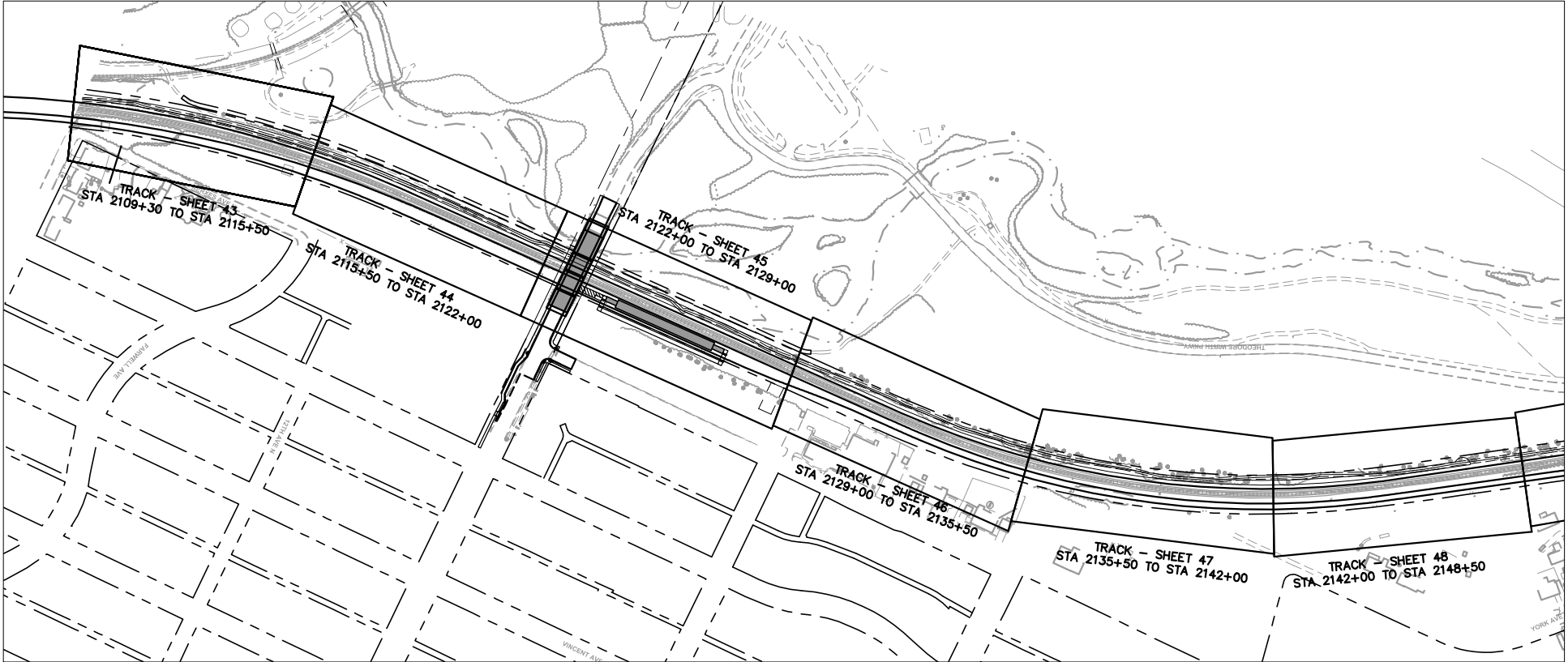
**SEGMENT GV
GOLDEN VALLEY RD
EXISTING CONDITIONS
STA 18+00 TO STA 25+00**

DISCIPLINE: **SURVEY**

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

SHEET
19
OF
79

Dec. 07 2015 09:20 am H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-IDX.dwg By: V-Prudho



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT



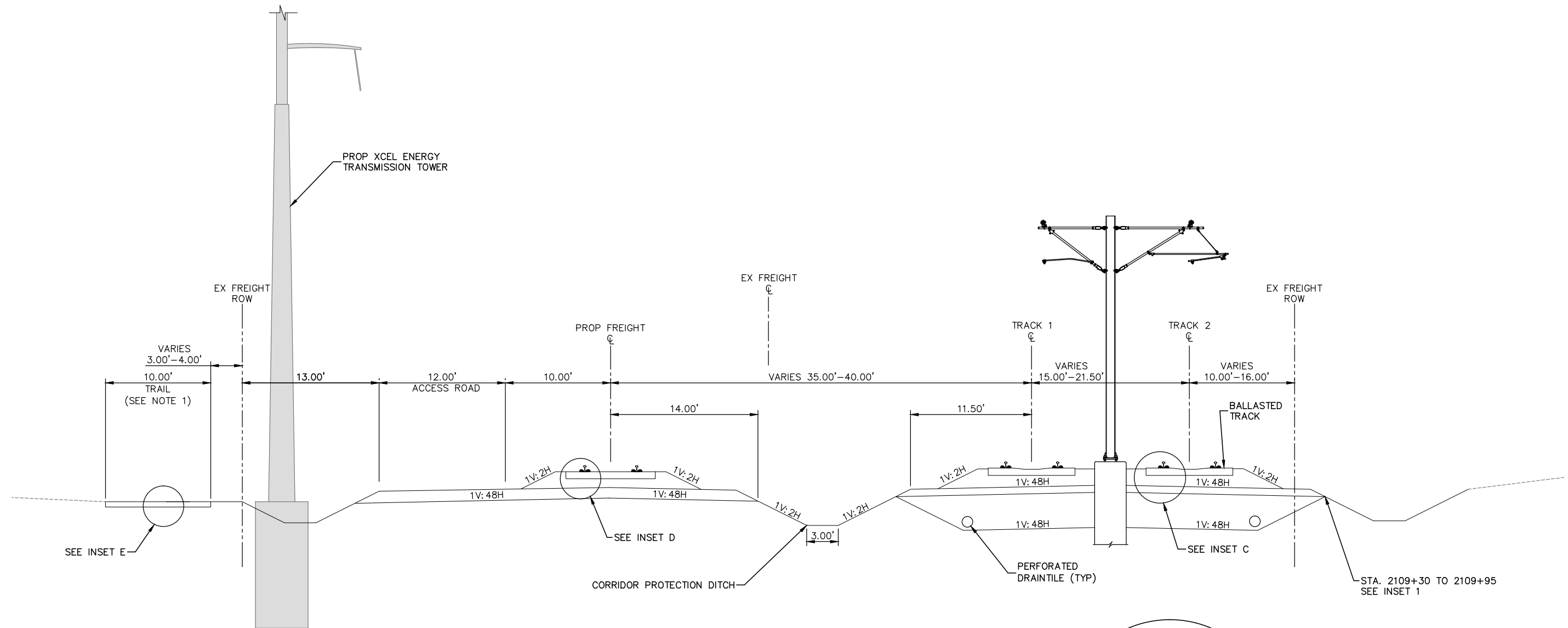
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TRACK
SHEET LAYOUT INDEX

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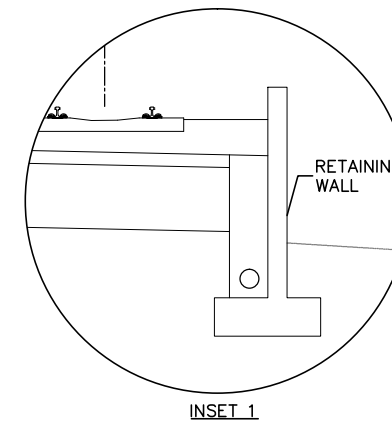
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SHEET
20
OF
79

Dec, 03 2015 02:22 pm H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\M\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION
STA. 2109+30 (BEGINNING OF SEGMENT GV) TO 2114+91



- NOTE:
1. TRAIL STA. 2111+95 TO STA. 2129+27.
 2. FOR INSETS, SEE SHEET 42
 3. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
 4. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
 5. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT



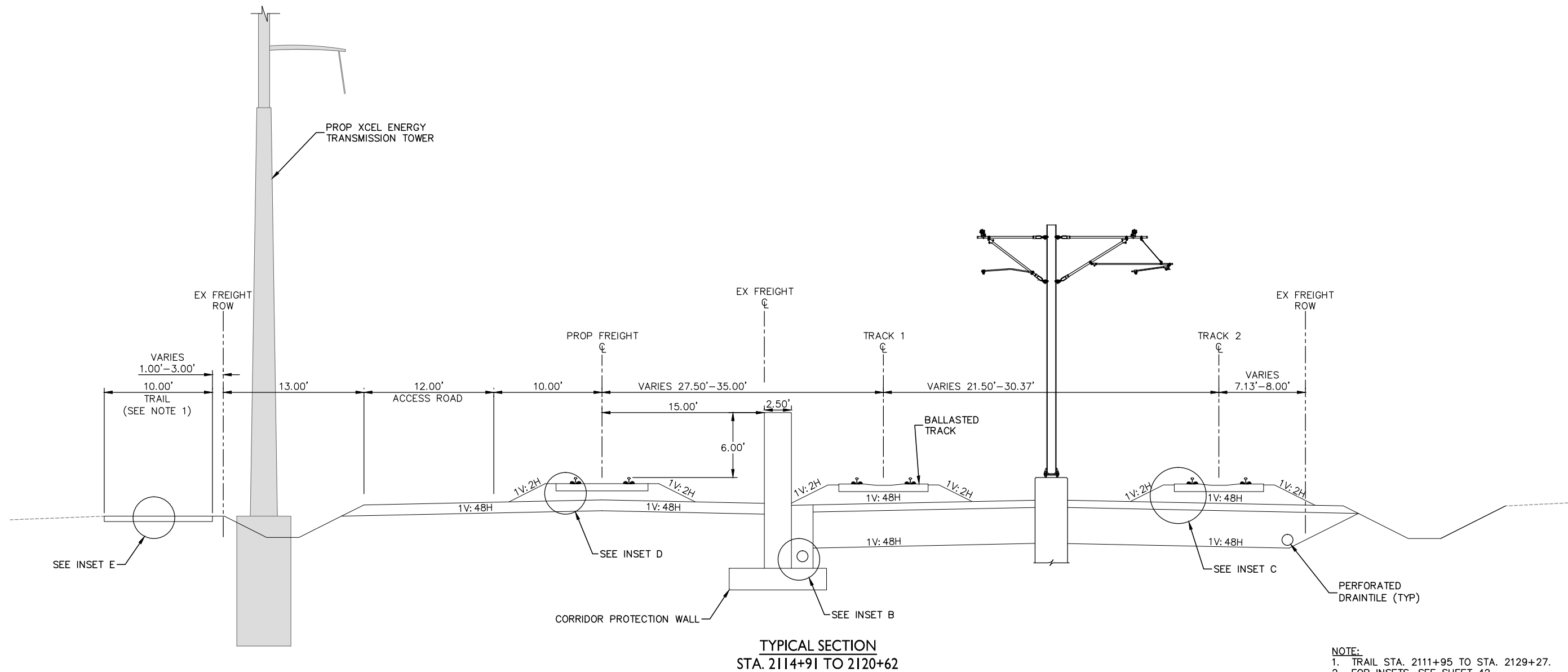
**SEGMENT GV
TRACK
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

SHEET NAME: **GV-TRK-TYPS-001**

SHEET
21
OF
79

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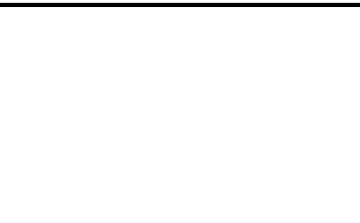
- NOTE:**
- 1. TRAIL STA. 2111+95 TO STA. 2129+27.
 - 2. FOR INSETS, SEE SHEET 42
 - 3. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
 - 4. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
 - 5. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





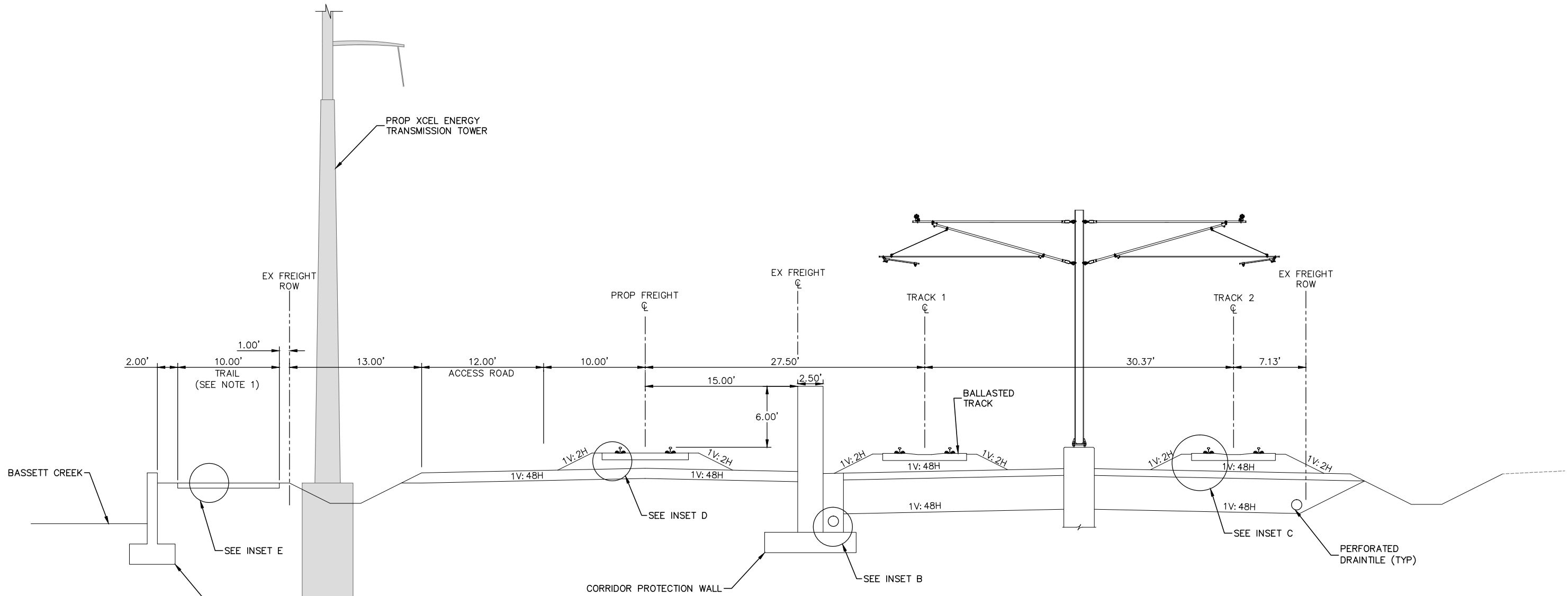
MUNICIPAL CONSENT



SEGMENT GV TRACK TYPICAL SECTIONS	
DISCIPLINE: TRACK	SHEET NAME: GV-TRK-TYPS-002

SHEET
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Dec, 03 2015 02:23 pm H:\BPO\550_Design_Consultant\CAD\005--SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION
STA. 2120+62 TO 2122+53
STA. 2123+09 TO 2123+68

- NOTE:
1. TRAIL STA. 2111+95 TO STA. 2129+27.
 2. FOR INSETS, SEE SHEET 42
 3. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
 4. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
 5. PROPOSED RIGHT-OF-WAY NOT DETERMINED




SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



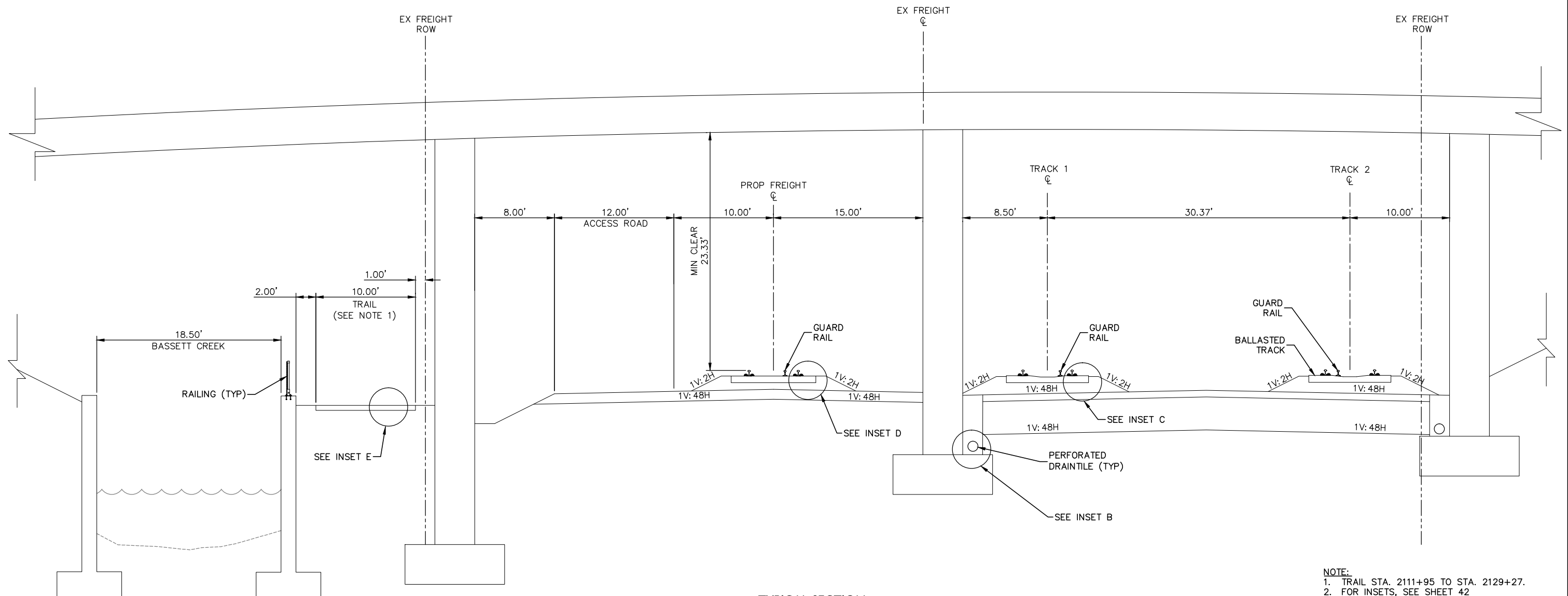
MUNICIPAL CONSENT



SEGMENT GV TRACK TYPICAL SECTIONS	
DISCIPLINE: TRACK	SHEET NAME: GV-TRK-TYPS-003

SHEET
23
OF
79

Dec, 03 2015 02:24 pm H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION
PLYMOUTH BRIDGE
STA. 2122+53 TO 2123+09

- NOTE:
1. TRAIL STA. 2111+95 TO STA. 2129+27.
 2. FOR INSETS, SEE SHEET 42
 3. OCS NOT DEPICTED
 4. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
 5. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



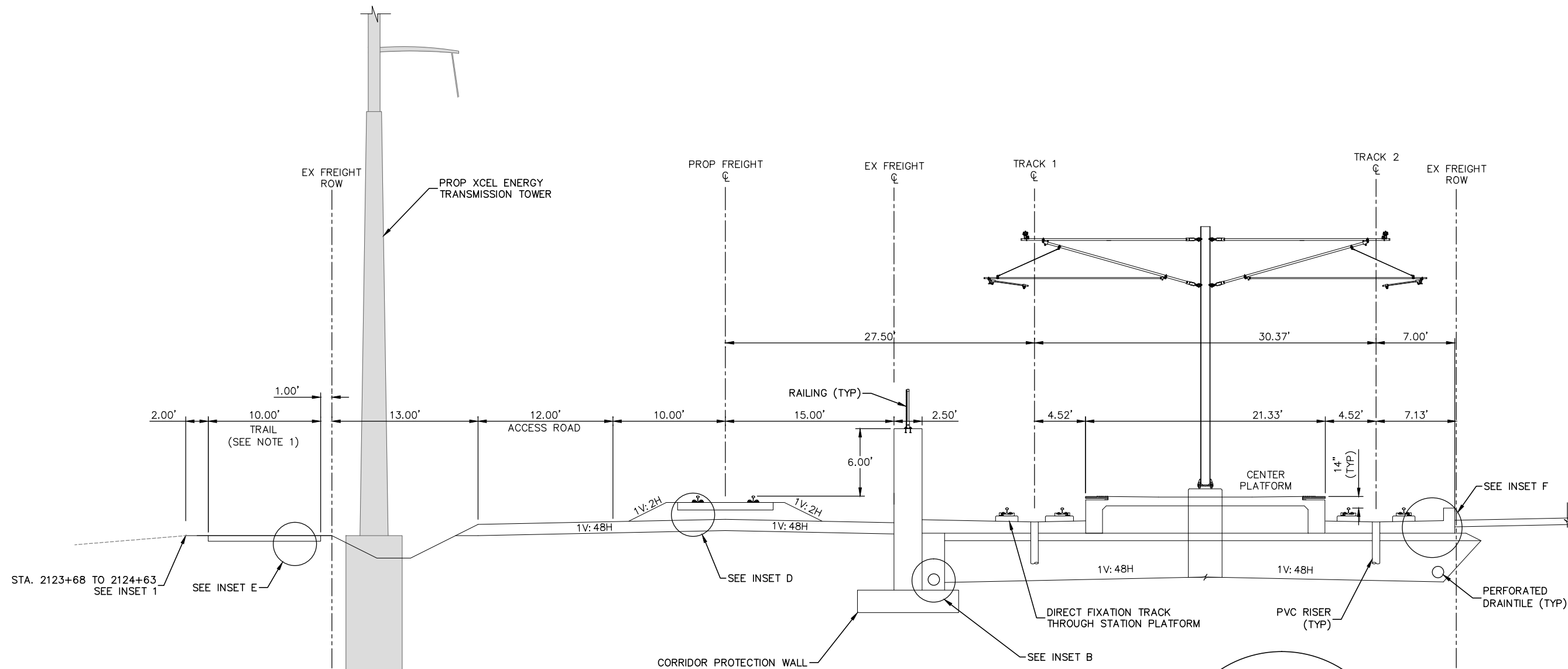
SEGMENT GV
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

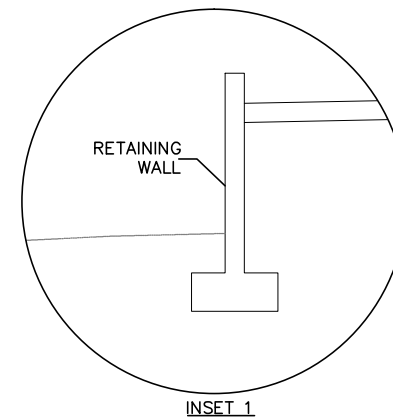
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79

Dec. 03 2015 02:24 pm H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION
PLYMOUTH AVENUE STATION
STA. 2123+68 TO 2126+18



- NOTE:
1. TRAIL STA. 2111+95 TO STA. 2129+27.
 2. FOR INSETS, SEE SHEET 42
 3. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
 4. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
 5. PROPOSED RIGHT-OF-WAY NOT DETERMINED



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT



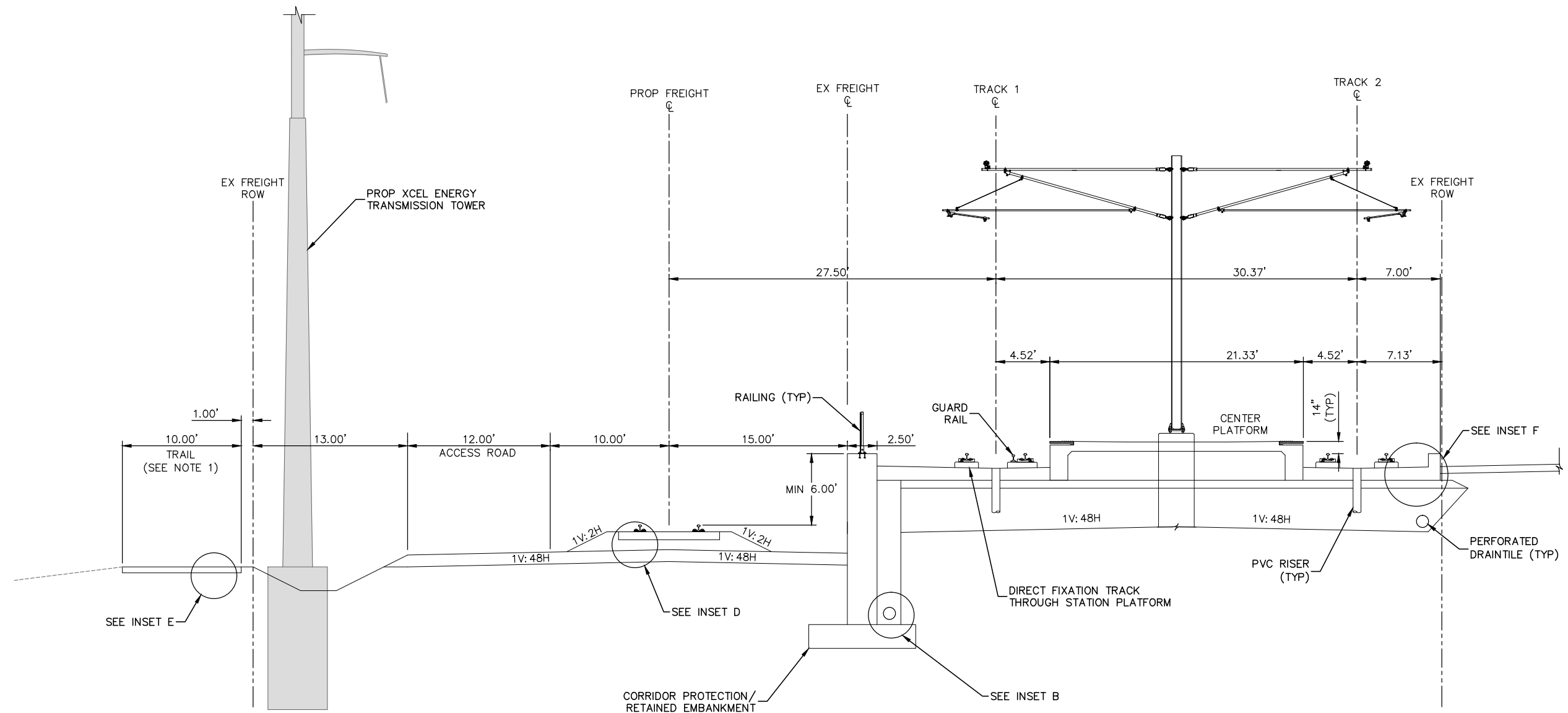
SEGMENT GV
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: GV-TRK-TYPS-005

SHEET
25
OF
79

Dec, 03 2015 02:25 pm H:\BPO\550_Design_Consultant\CAD\005--SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION
PLYMOUTH AVENUE STATION
STA. 2126+18 TO 2127+28

- NOTE:
1. TRAIL STA. 2111+95 TO STA. 2129+27.
 2. FOR INSETS, SEE SHEET 42
 3. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
 4. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
 5. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

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SEGMENT GV
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: GV-TRK-TYPS-006

SHEET
26
OF
79

79

- NOTE:**
1. FOR INSETS, SEE SHEET 42
 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

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MUNICIPAL CONSENT



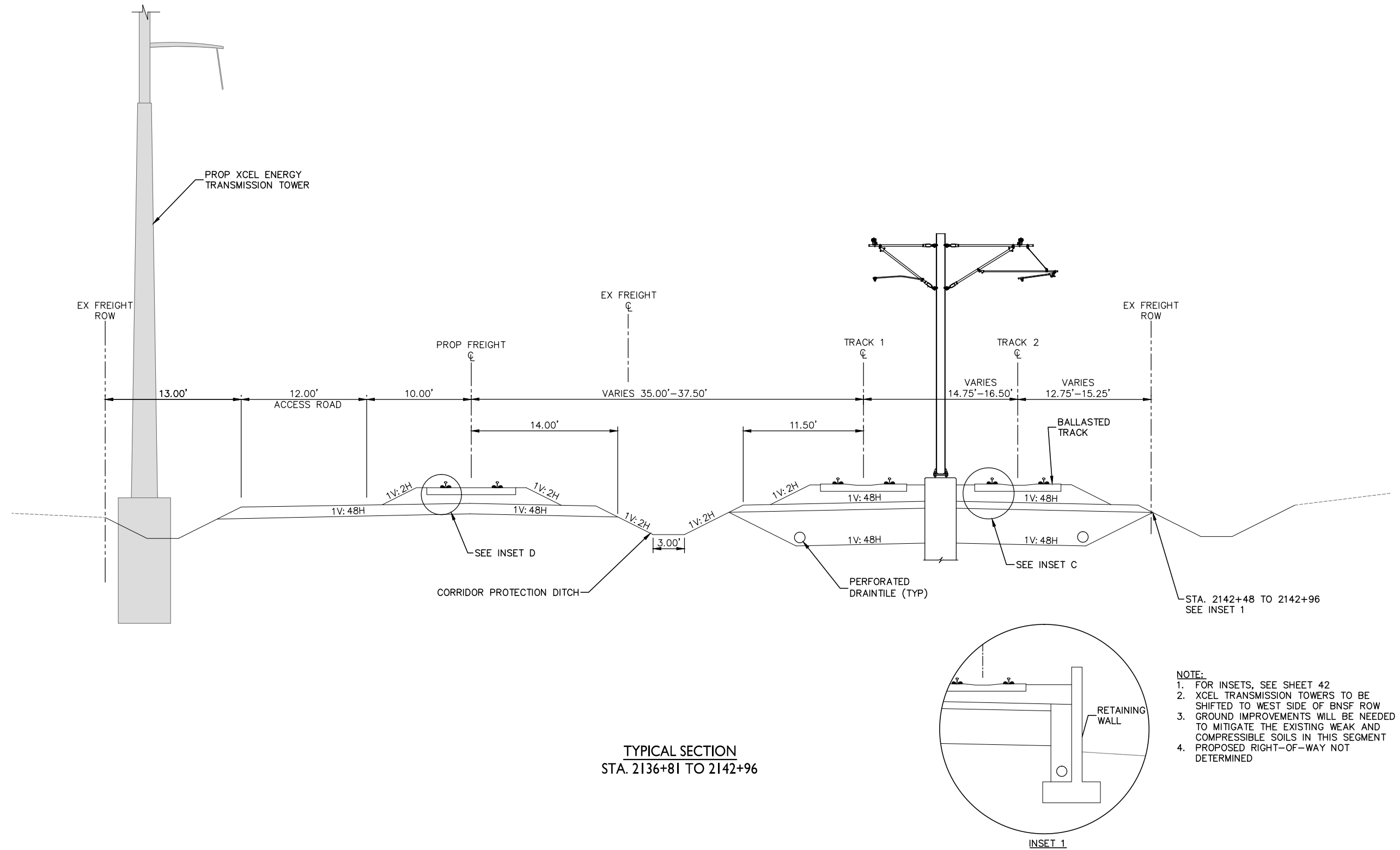
SEGMENT GV TRACK TYPICAL SECTIONS

DISCIPLINE:	TRACK
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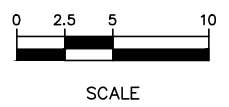
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	SHEET
	28
	OF
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- NOTE:**
1. FOR INSETS, SEE SHEET 42
 2. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
 3. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
 4. PROPOSED RIGHT-OF-WAY NOT DETERMINED



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

**WSP**

**PARSONS
BRINCKERHOFF**

MUNICIPAL CONSENT



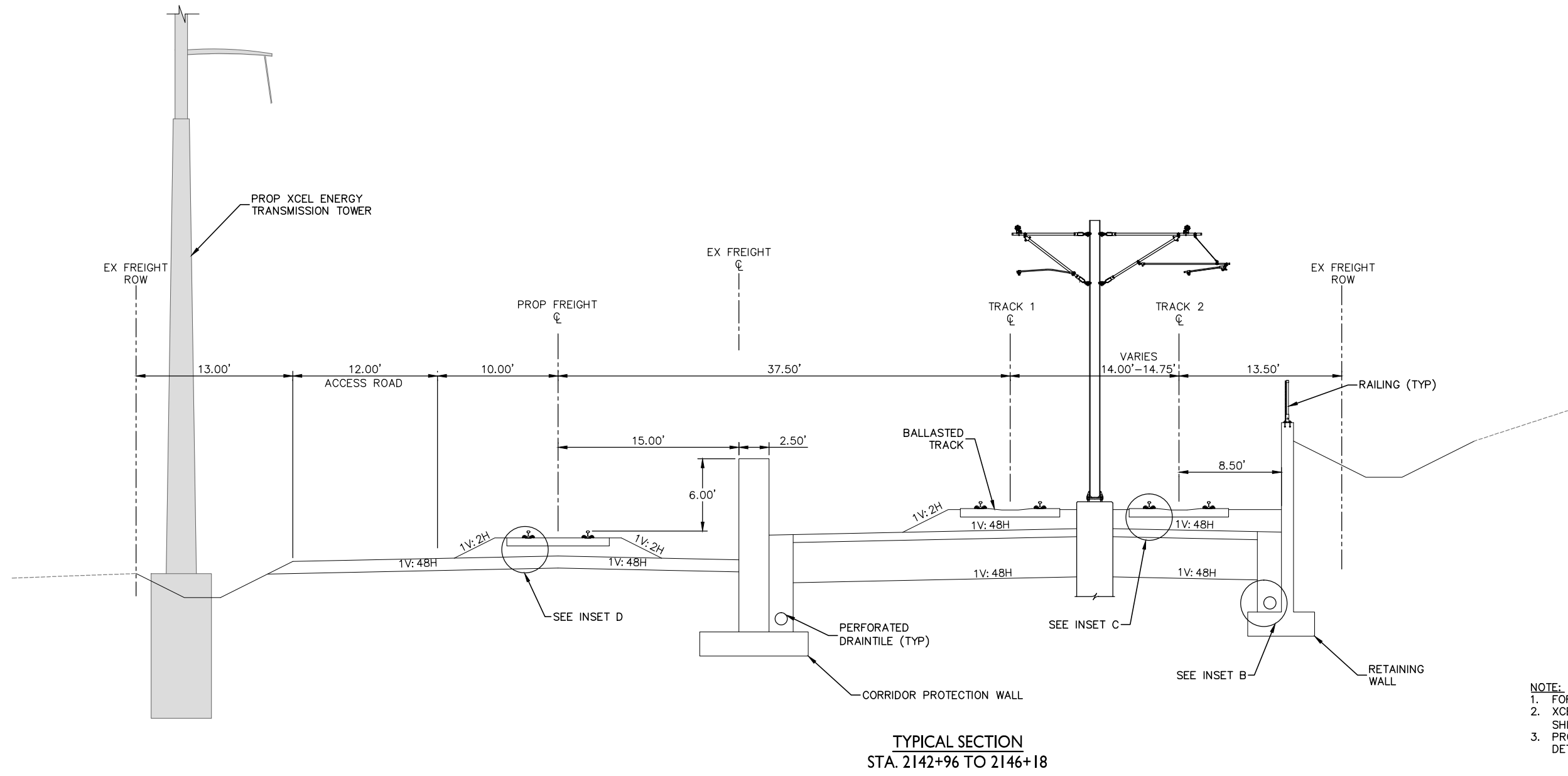
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TRACK
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

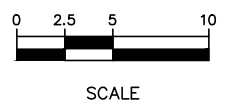
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29
OF
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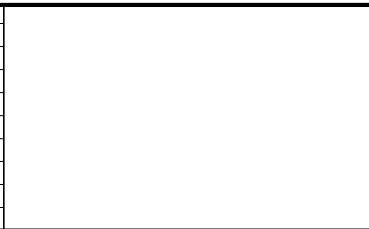


- NOTE:
- 1. FOR INSETS, SEE SHEET 42
 - 2. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW'
 - 3. PROPOSED RIGHT-OF-WAY NOT DETERMINED



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





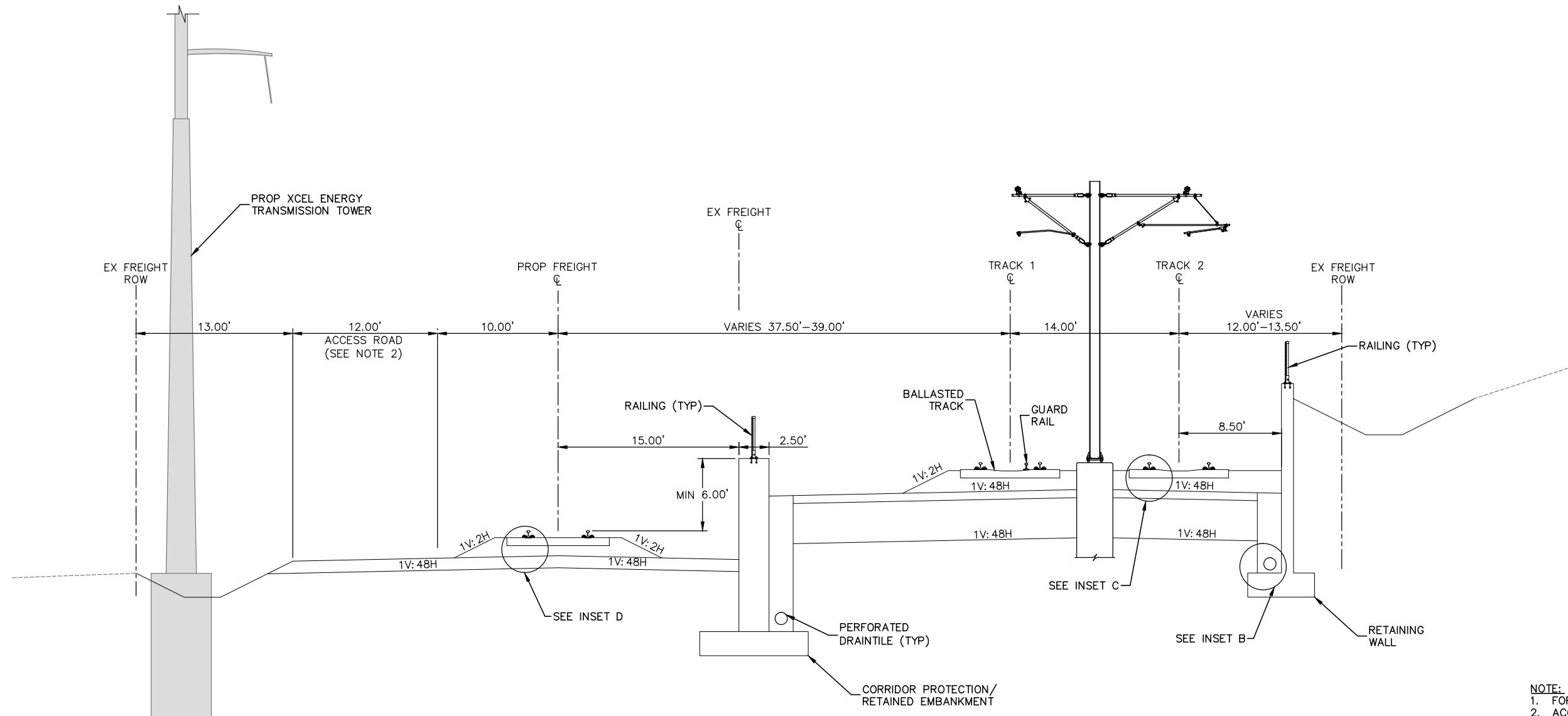
MUNICIPAL CONSENT



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30
OF
79

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TYPICAL SECTION
STA. 2146+18 TO 2148+43

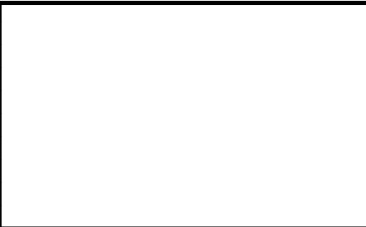
- NOTE:
- 1. FOR INSETS, SEE SHEET 42
 - 2. ACCESS ROAD ENDS STA. 2147+16
 - 3. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
 - 4. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





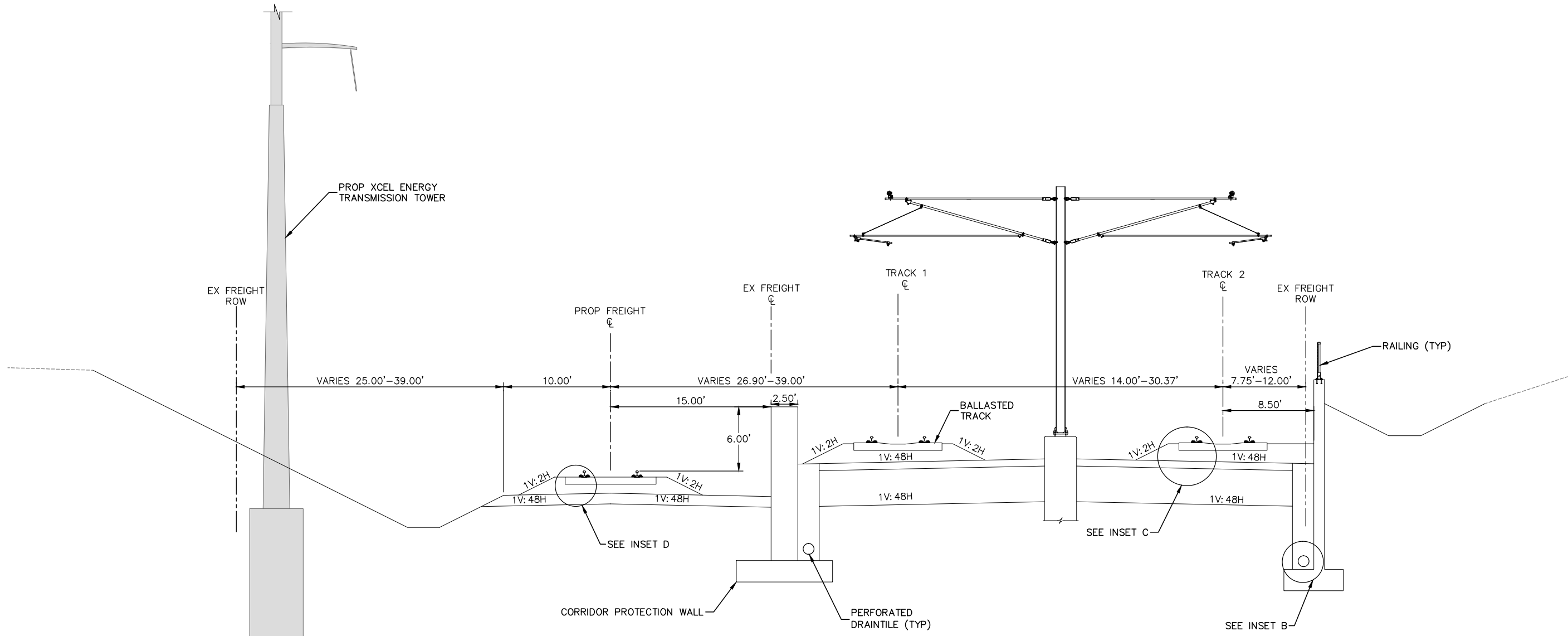
MUNICIPAL CONSENT



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

SHEET
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OF
79

Dec, 04 2015 09:28 am H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION
STA. 2148+43 TO 2153+64
STA. 2154+12 TO 2154+31
STA. 2157+91 TO 2158+49
STA. 2159+30 TO 2159+86

- NOTE:**
- 1. FOR INSETS, SEE SHEET 42
 - 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



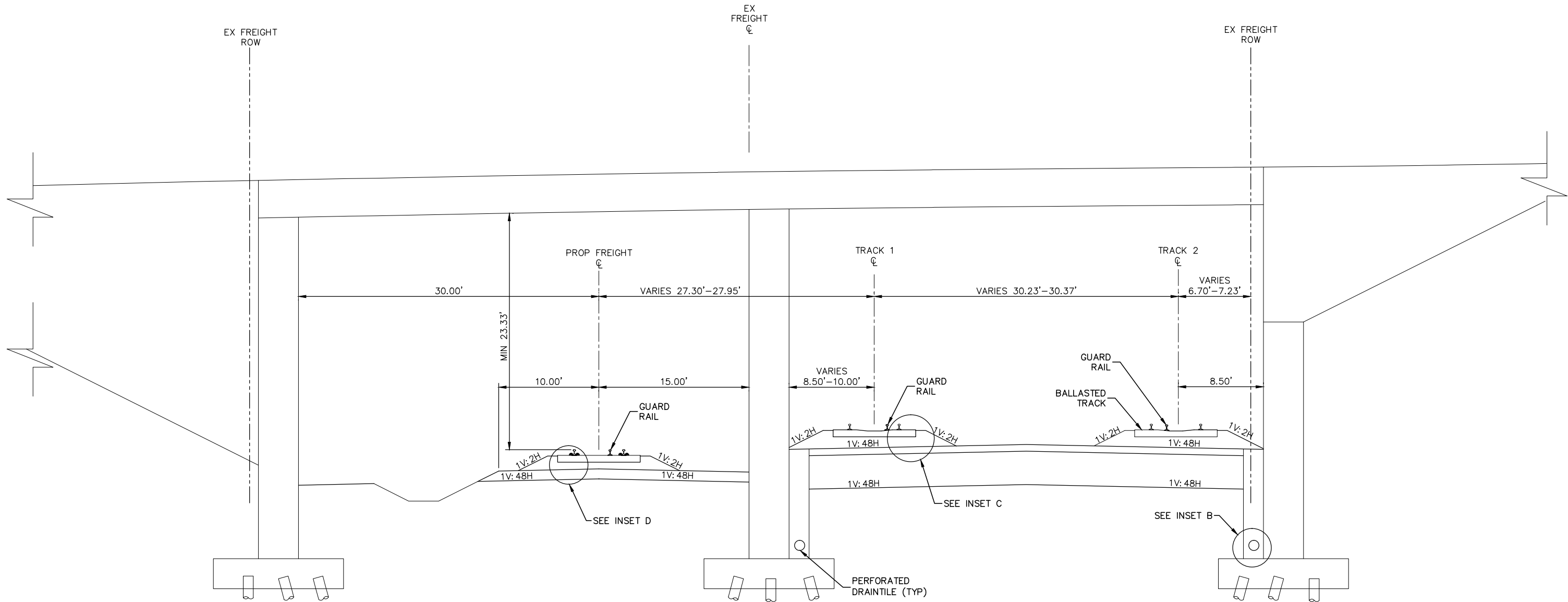
MUNICIPAL CONSENT



SEGMENT GV TRACK TYPICAL SECTIONS	
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SHEET
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OF
79

Dec, 03 2015 02:29 pm H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION
THEODORE WIRTH PARKWAY BRIDGE
STA. 2153+64 TO 2154+12

NOTE:
1. FOR INSETS, SEE SHEET 42
2. OCS NOT DEPICTED
3. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

MUNICIPAL CONSENT

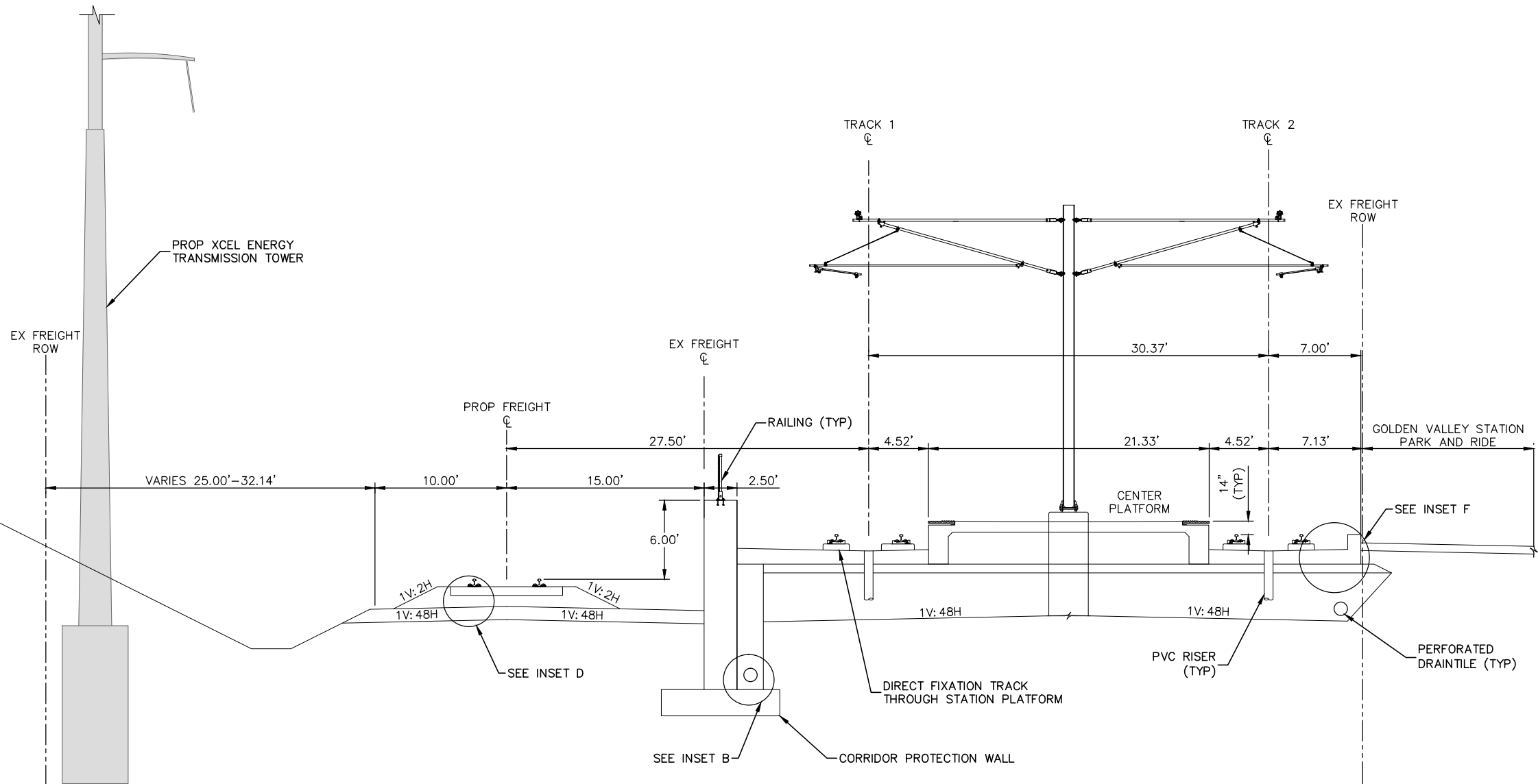
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TRACK
TYPICAL SECTIONS

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SHEET
33
OF
79

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TYPICAL SECTION
GOLDEN VALLEY ROAD STATION
STA. 2154+31 TO 2157+91

- NOTE:
1. FOR INSETS, SEE SHEET 42
 2. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
 3. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn



MUNICIPAL CONSENT



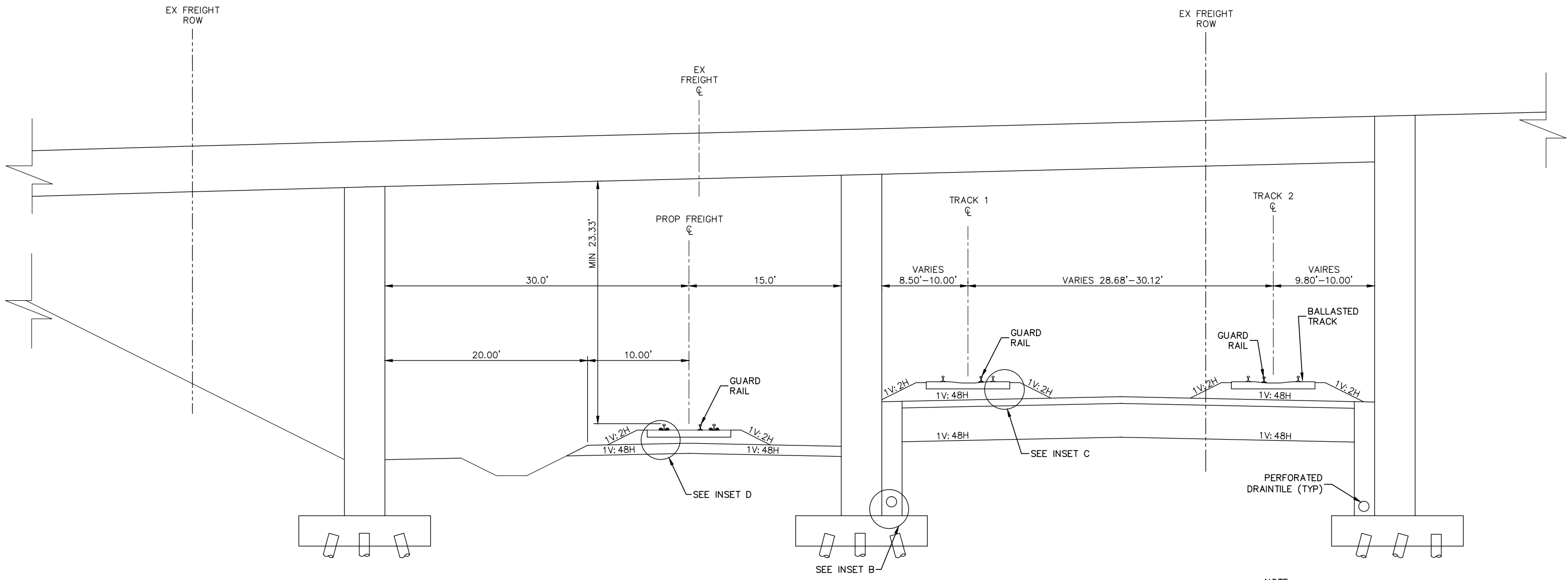
**SEGMENT GV
TRACK
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

SHEET NAME: **GV-TRK-TYPS-014**

**SHEET
34
OF
79**

Dec, 03 2015 02:30 pm H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\M\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION
GOLDEN VALLEY ROAD BRIDGE
STA. 2158+49 TO 2159+30

- NOTE:
- 1. FOR INSETS, SEE SHEET 42
 - 2. OCS NOT DEPICTED
 - 3. PROPOSED RIGHT-OF-WAY NOT DETERMINED




SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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SEGMENT GV
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: GV-TRK-TYPS-015

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35
OF
79

NOTE:

1. FOR INSETS, SEE SHEET 42
2. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
3. PROPOSED RIGHT-OF-WAY NOT DETERMINED



DRAFT-WORK IN PROCESS

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MUNICIPAL CONSENT



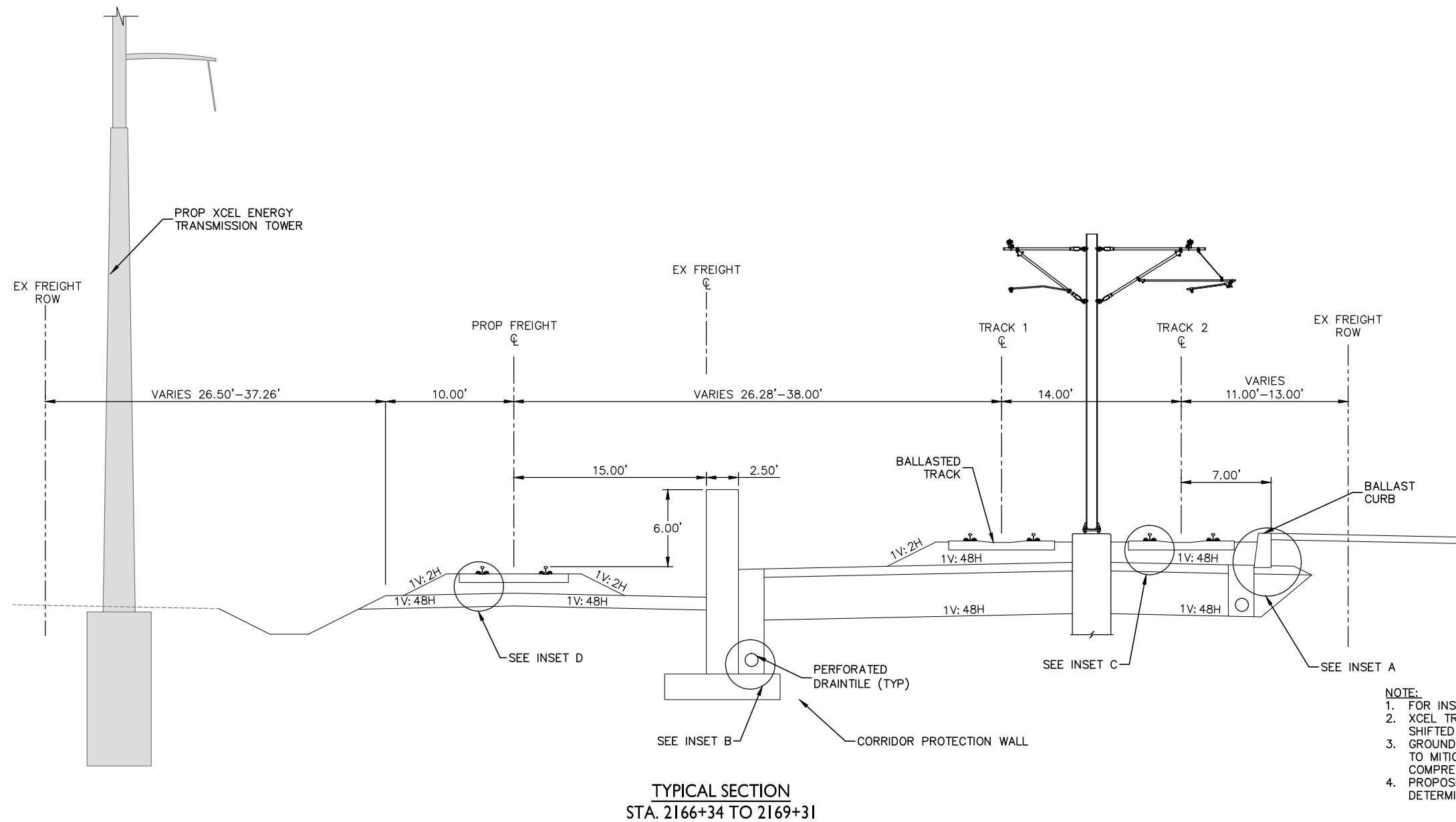
SEGMENT GV TRACK TYPICAL SECTIONS

DISCIPLINE:	TRACK
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SHEET NAME:	GV-TRK-TYPS-016
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SHEET
36
OF
79

Dec, 04 2015 09:29 am H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



- NOTE:
1. FOR INSETS, SEE SHEET 42
 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

Kimley»Horn



MUNICIPAL CONSENT



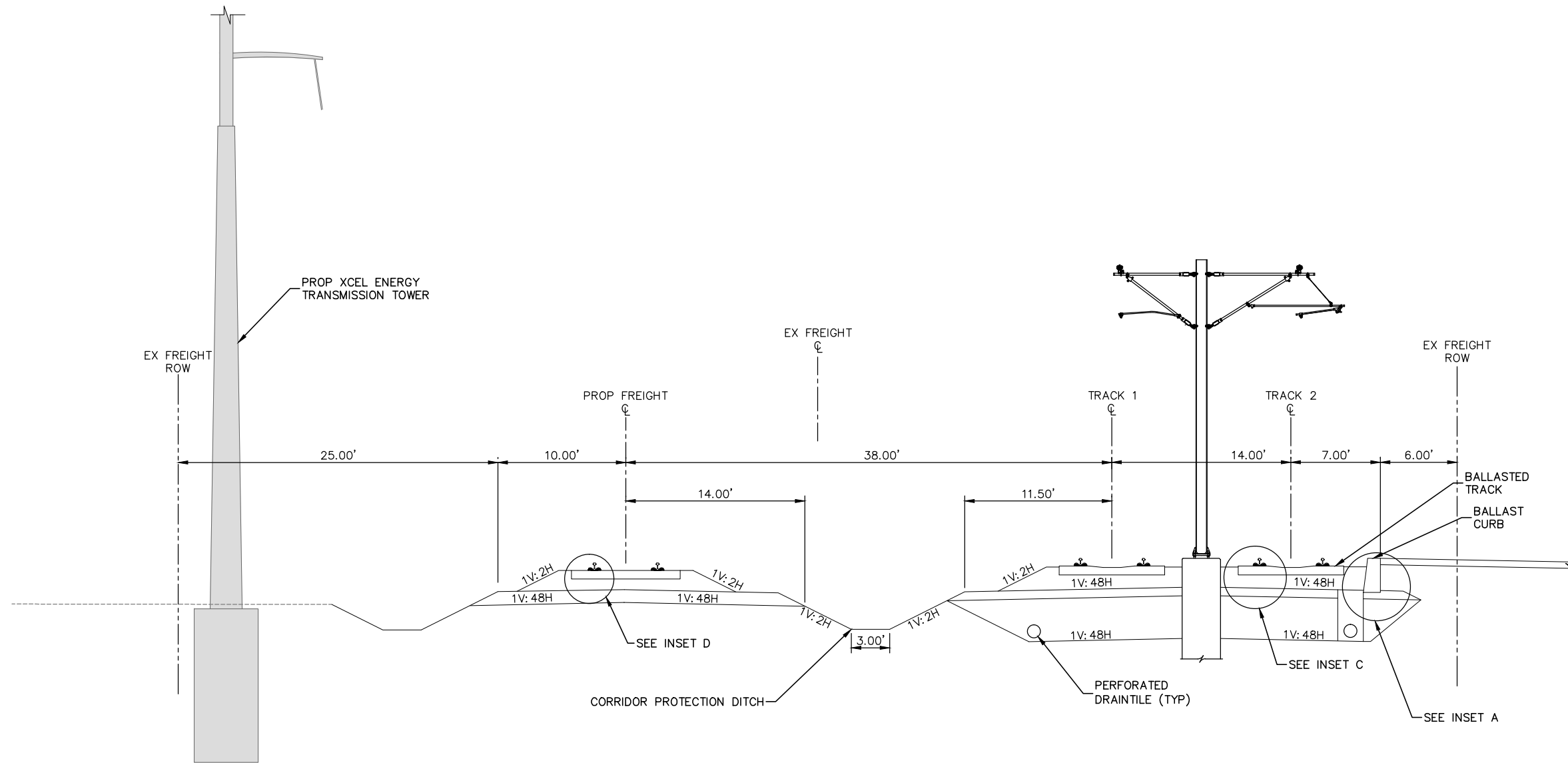
**SEGMENT GV
TRACK
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

SHEET NAME: **GV-TRK-TYPS-017**

SHEET
37
OF
79

Dec, 03 2015 02:32 pm H:\BPO\550_Design_Consultant\CAD\005--SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION
STA. 2169+31 TO 2170+00




- NOTE:
- 1. FOR INSETS, SEE SHEET 42
 - 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



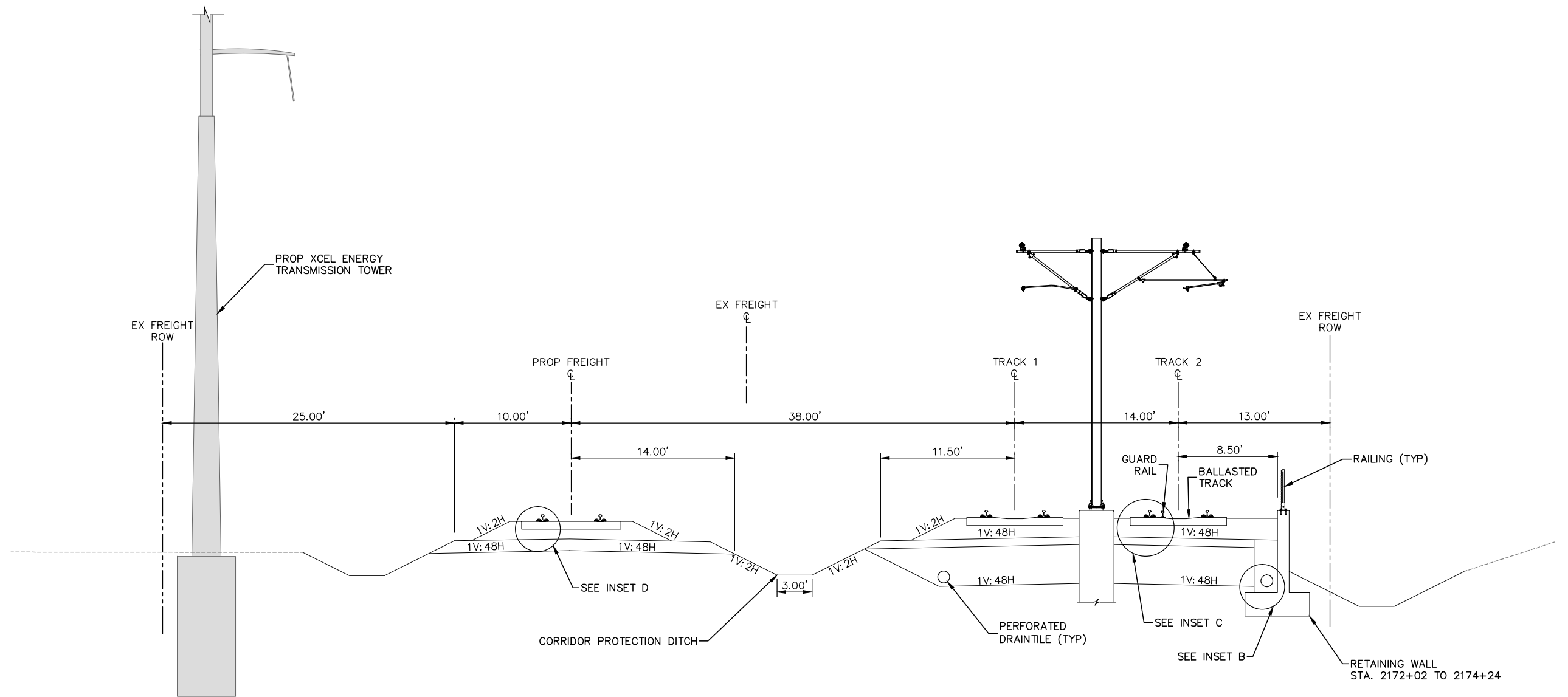
SEGMENT GV
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: GV-TRK-TYPS-018

SHEET
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OF
79

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TYPICAL SECTION
STA. 2170+00 TO 2174+24

- NOTE:
1. FOR INSETS, SEE SHEET 42
 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



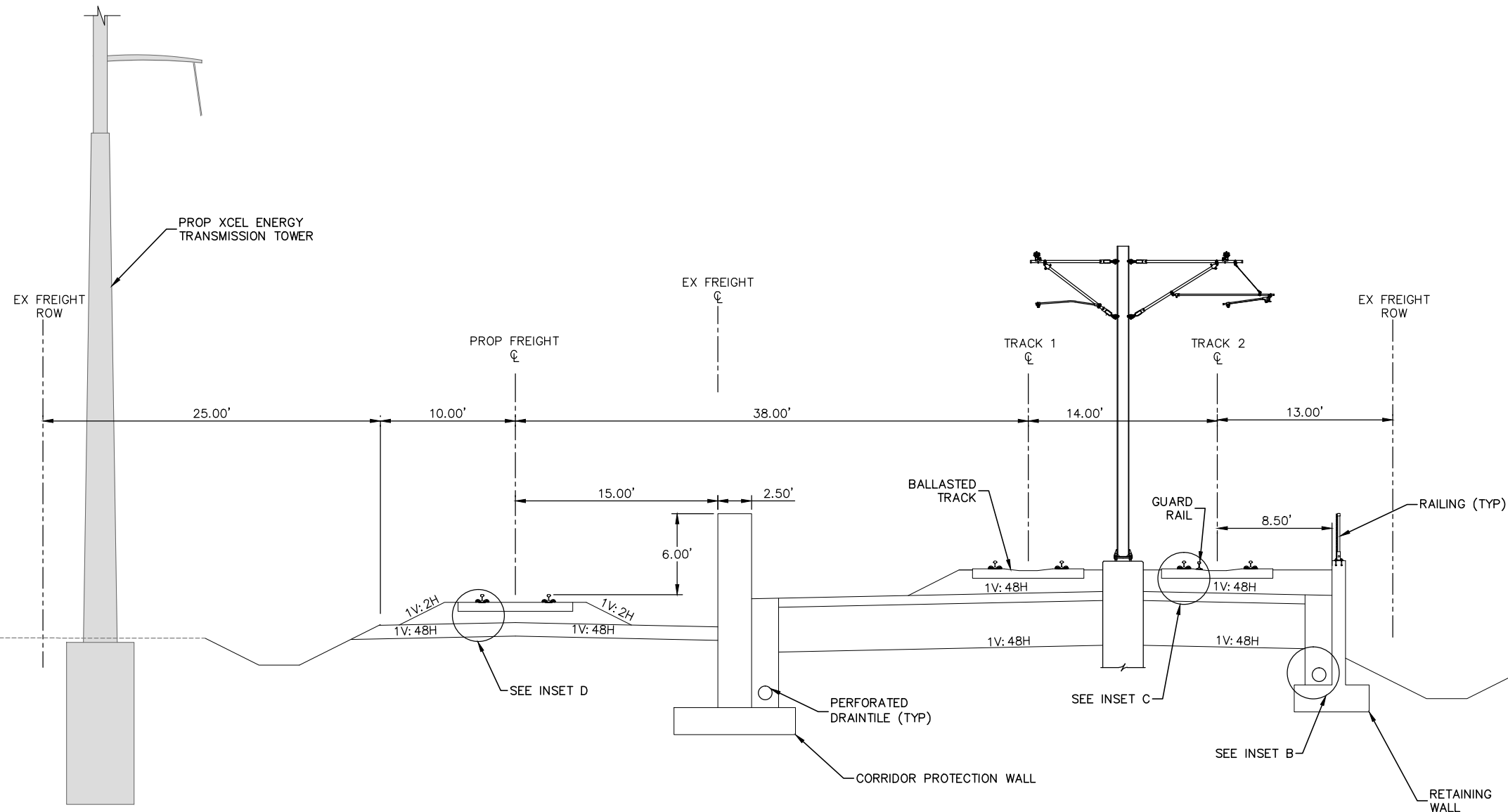
SEGMENT GV
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: GV-TRK-TYPS-019

SHEET
39
OF
79

Dec, 03 2015 02:33 pm H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\M\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION
STA. 2174+24 TO 2176+31

- NOTE:
1. FOR INSETS, SEE SHEET 42
 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



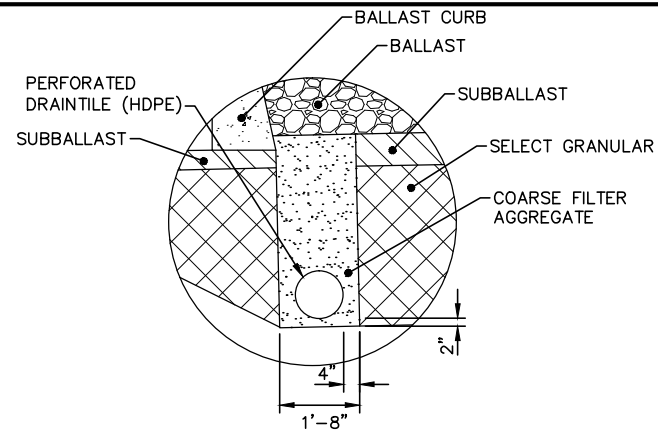
SEGMENT GV
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: GV-TRK-TYPS-020

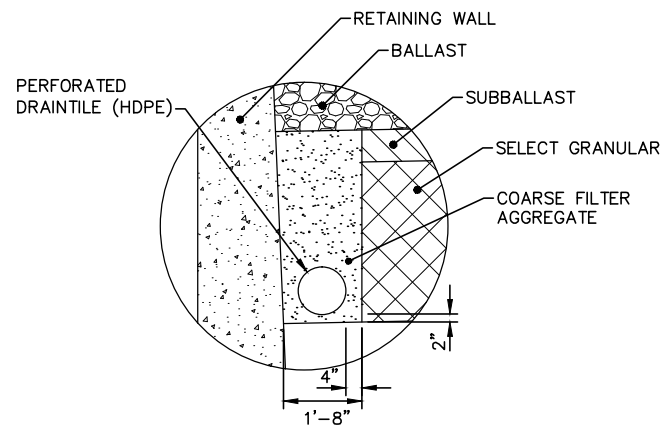
SHEET
40
OF
79

Dec. 03 2015 02:34 pm H:\BPO\550_Design_Consultant\CAD\005--SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



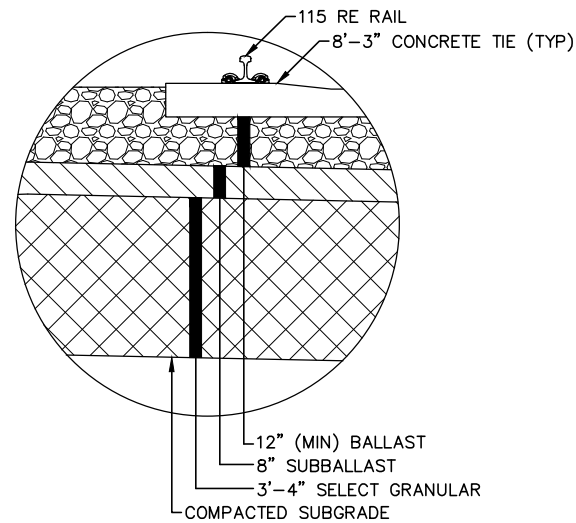
INSET A – BALLAST CURB INTERFACE

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

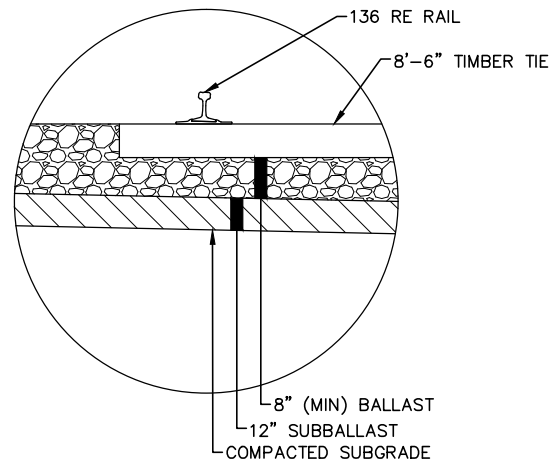


INSET B – RETAINING WALL INTERFACE

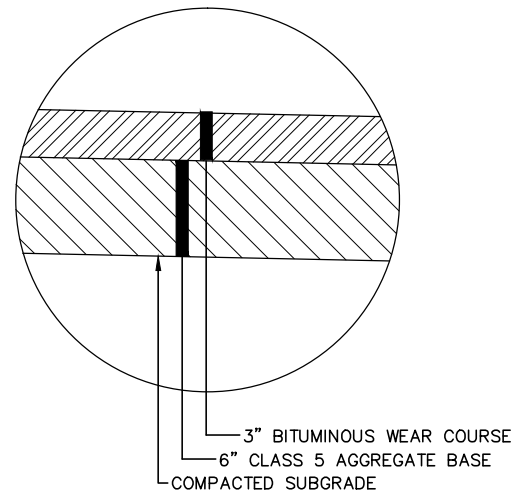
NOTE: LEFT SIDE DRAINAGE TRENCH ILLUSTRATED.
FOR RIGHT SIDE, MIRROR SECTION.



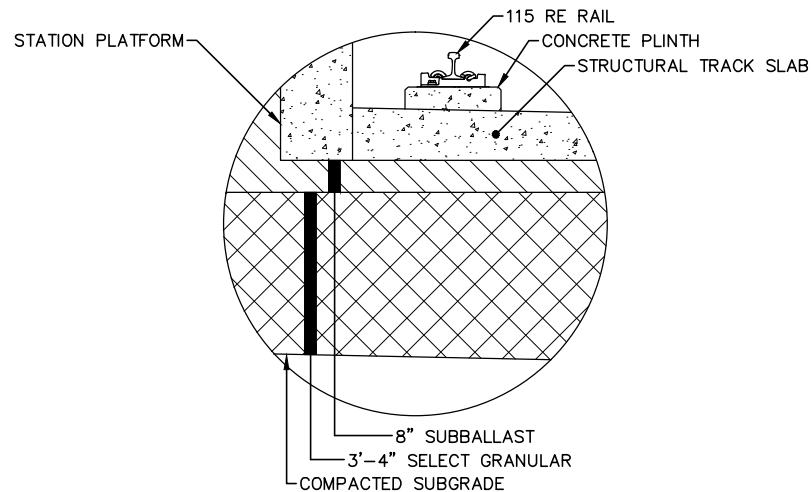
INSET C – TYPICAL BALLASTED TRACK



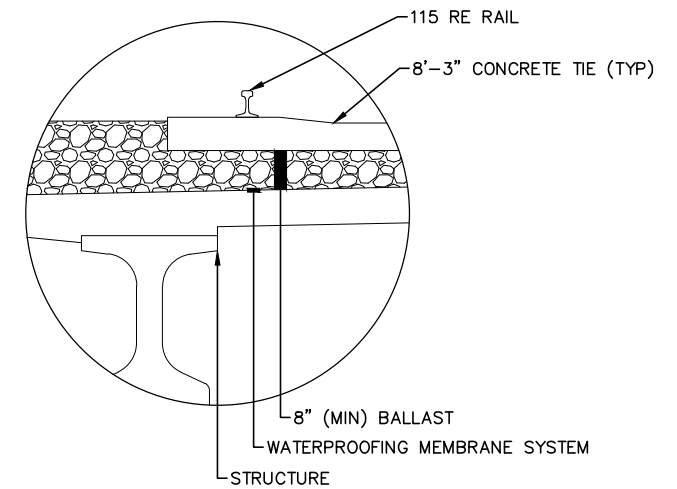
INSET D – TYPICAL BALLASTED FREIGHT TRACK



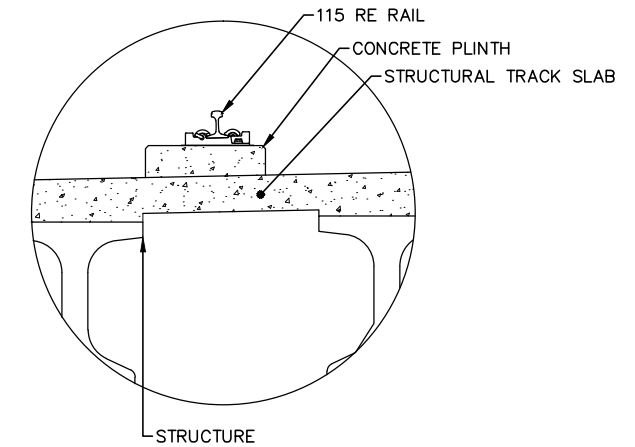
INSET E – TYPICAL TRAIL



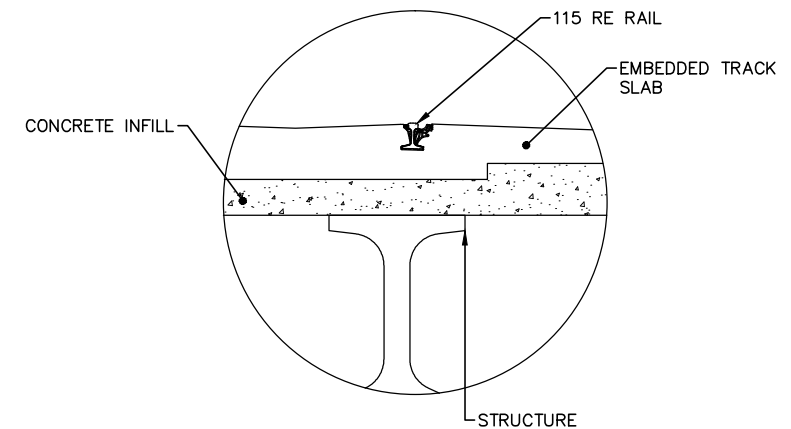
INSET F – TYPICAL DIRECT FIXATION INTERFACE
AT STATION PLATFORM



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

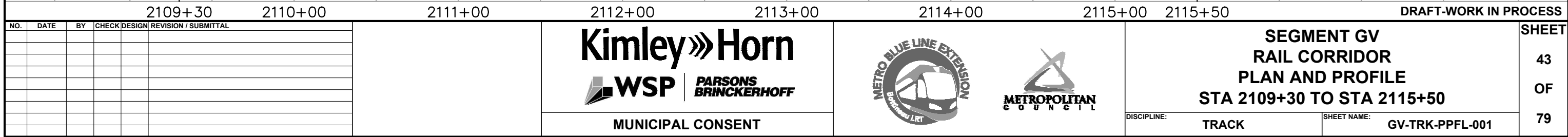


**SEGMENT GV
TRACK
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

SHEET NAME: **GV-TRK-TYPS-022**

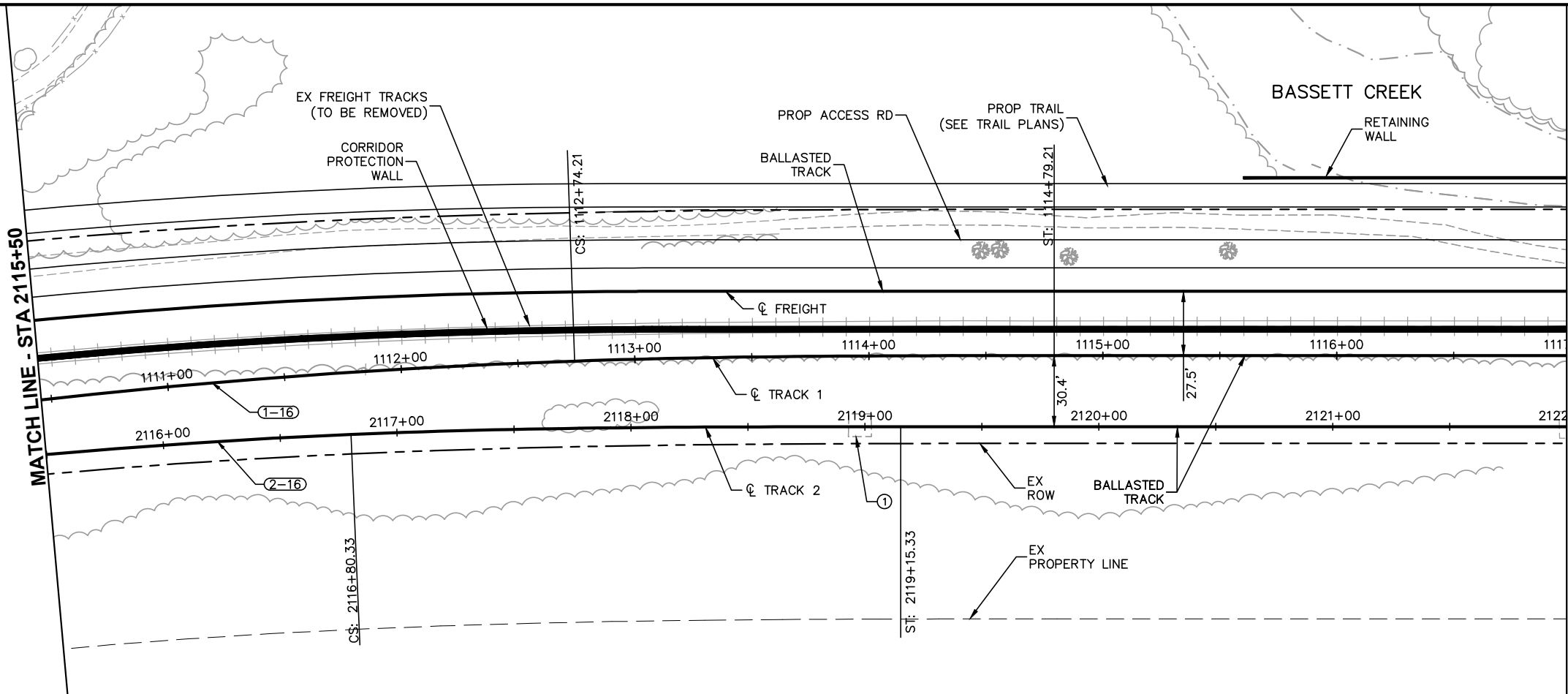
SHEET
42
OF
79



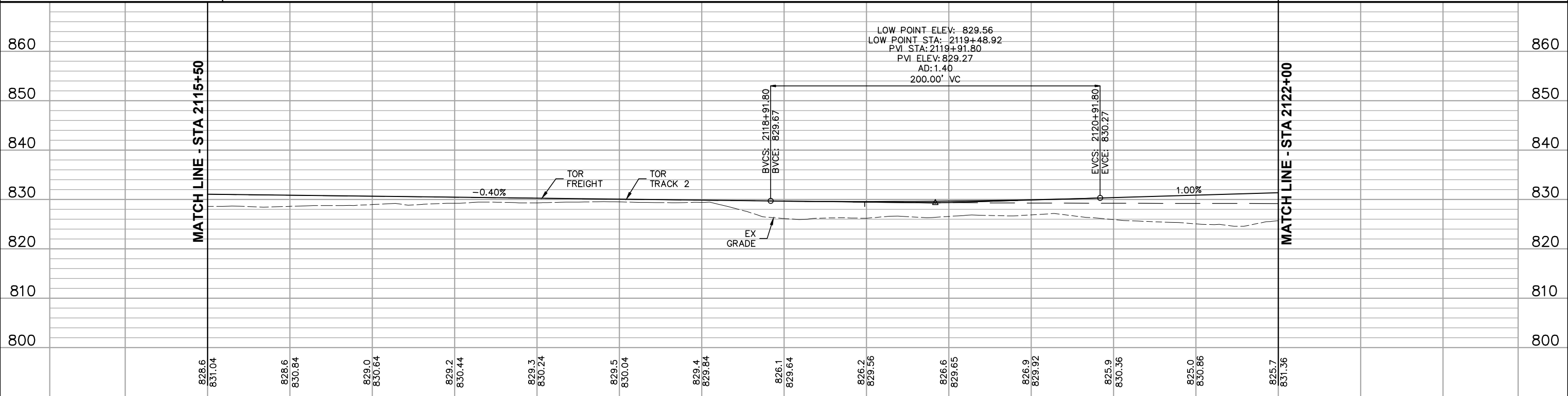
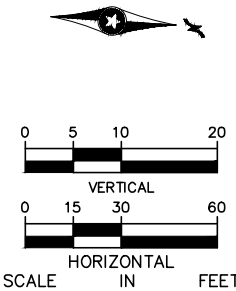
Dec. 03 2015 02:39 pm H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-PPFL.dwg By: V-Prudho

CURVE NO 1-16
R = 3000.00'
Lc = 1064.76'
Ls = 205.00'
Ea = 3.00"
Eu = 2.58"
Vd = 65 MPH

CURVE NO 2-16
R = 2780.00'
Lc = 941.65'
Ls = 235.00'
Ea = 3.50"
Eu = 2.52"
Vd = 65 MPH



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



2115+50	2116+00	2117+00	2118+00	2119+00	2120+00	2121+00	2122+00	DRAFT-WORK IN PROCESS
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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

Kimley»Horn

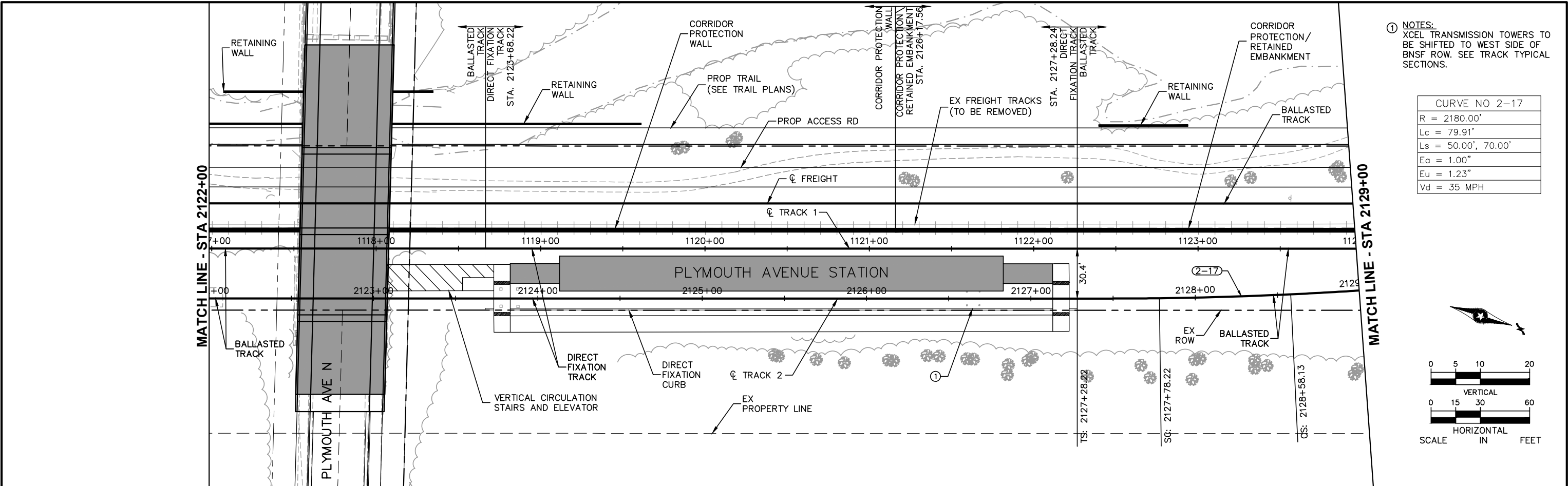
WSP | **PARSONS BRINCKERHOFF**

MUNICIPAL CONSENT



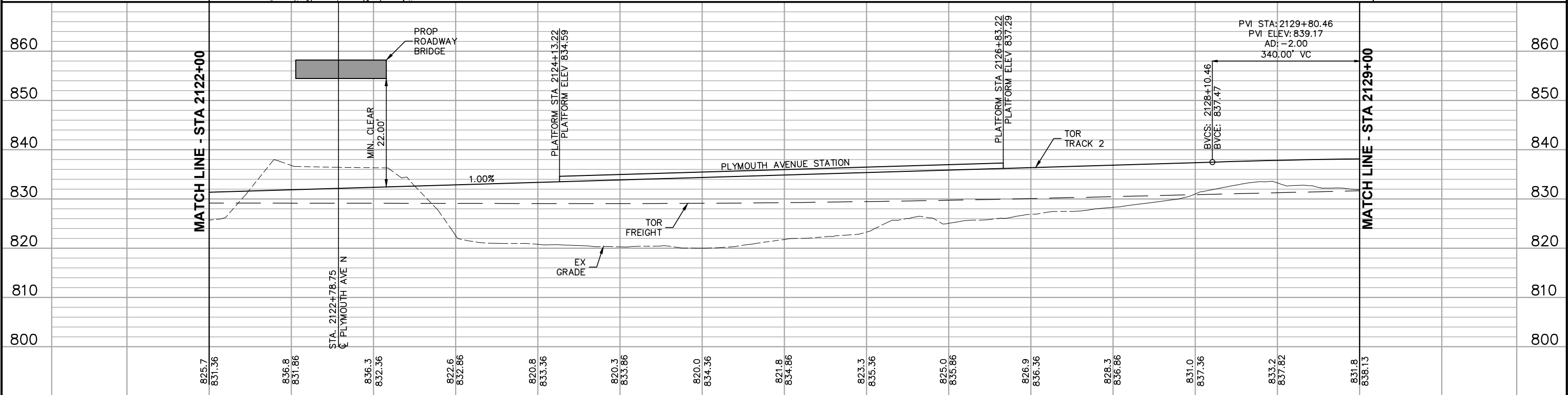
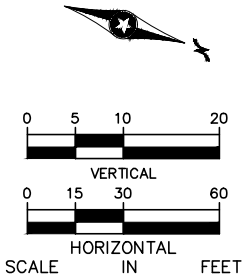
SEGMENT GV RAIL CORRIDOR PLAN AND PROFILE STA 2115+50 TO STA 2122+00		SHEET 44 OF 79
DISCIPLINE: TRACK	SHEET NAME: GV-TRK-PPFL-002	

Dec. 03 2015 02:40 pm H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MCP\PLAN SHEETS\TRACK\GV-TRK-PPFL.dwg By: V-Prudho



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

CURVE NO 2-17	
R =	2180.00'
Lc =	79.91'
LS =	50.00', 70.00'
Ea =	1.00"
Eu =	1.23"
Vd =	35 MPH



2122+00 2123+00 2124+00 2125+00 2126+00 2127+00 2128+00 2129+00 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

MUNICIPAL CONSENT

SEGMENT GV
RAIL CORRIDOR
PLAN AND PROFILE
STA 2122+00 TO STA 2129+00

DISCIPLINE: TRACK

SHEET NAME: GV-TRK-PPFL-003

SHEET

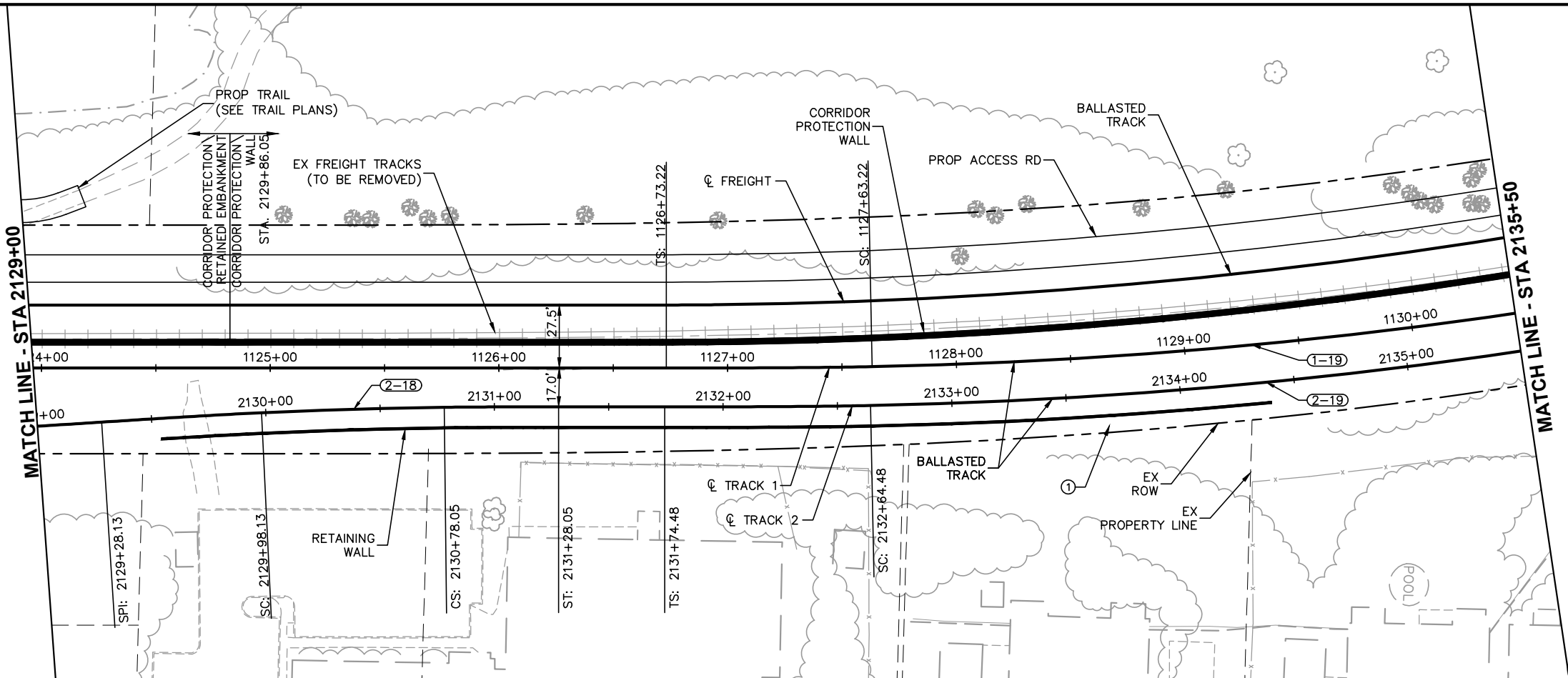
45

OF

79

Dec. 03 2015 02:42 pm H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-PPFL.dwg By: V-Prudho

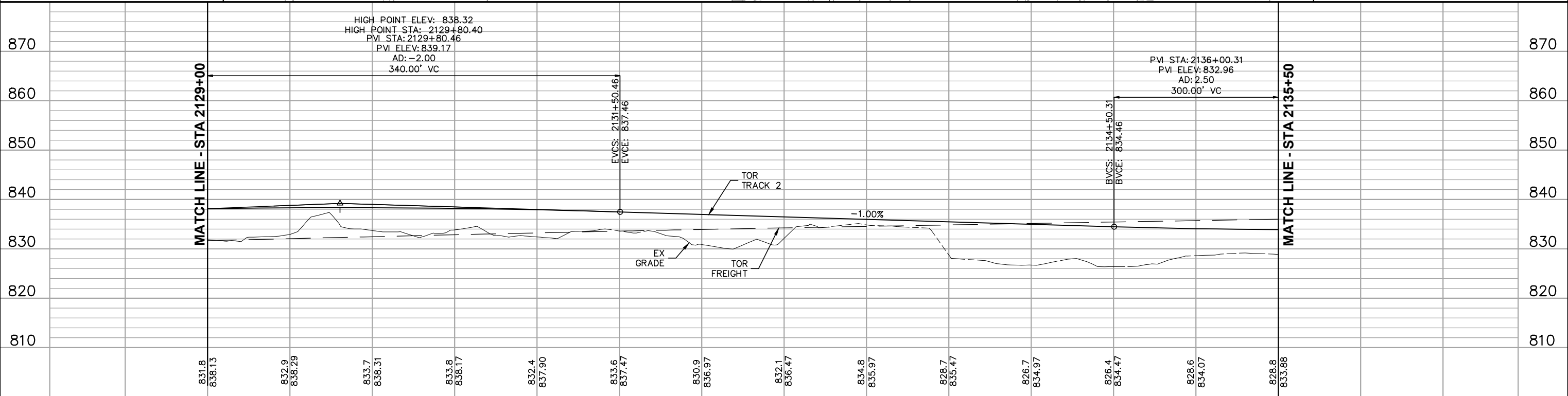
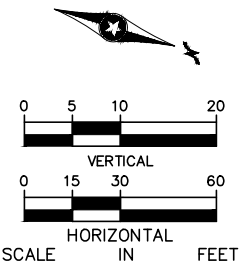
CURVE NO 2-18	
R =	2180.00'
Lc =	79.92'
Ls =	70.00', 50.00'
Ea =	1.00"
Eu =	1.23"
Vd =	35 MPH



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

CURVE NO 1-19	
R =	2250.00'
Lc =	1171.72'
Ls =	90.00'
Ea =	1.75"
Eu =	1.81"
Vd =	45 MPH

CURVE NO 2-19	
R =	2250.00'
Lc =	1171.71'
Ls =	90.00'
Ea =	1.75"
Eu =	1.81"
Vd =	45 MPH



2129+00 2130+00 2131+00 2132+00 2133+00 2134+00 2135+00 2135+50 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

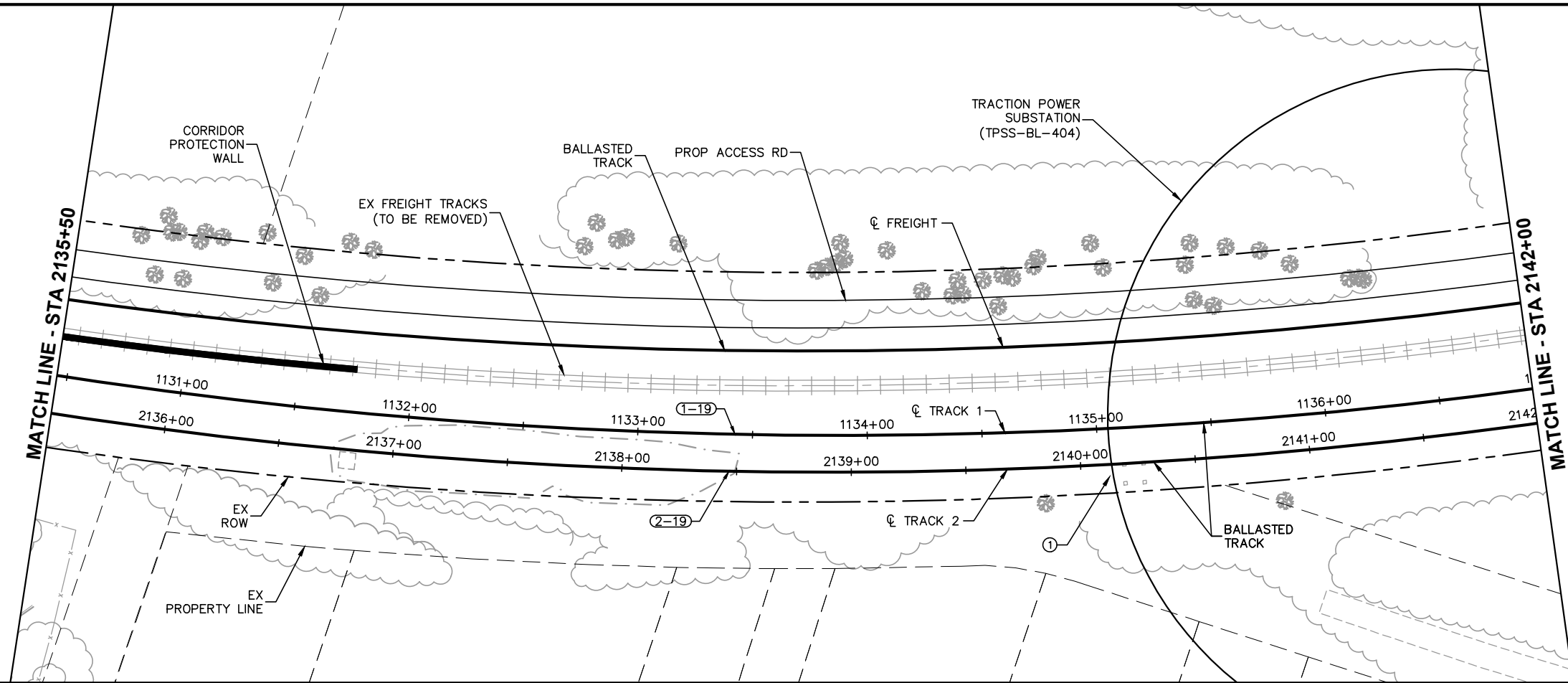
Kimley»Horn
WSP | **PARSONS BRINCKERHOFF**
MUNICIPAL CONSENT

**SEGMENT GV
RAIL CORRIDOR
PLAN AND PROFILE
STA 2129+00 TO STA 2135+50**

DISCIPLINE: TRACK	SHEET NAME: GV-TRK-PPFL-004
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SHEET 46 OF 79

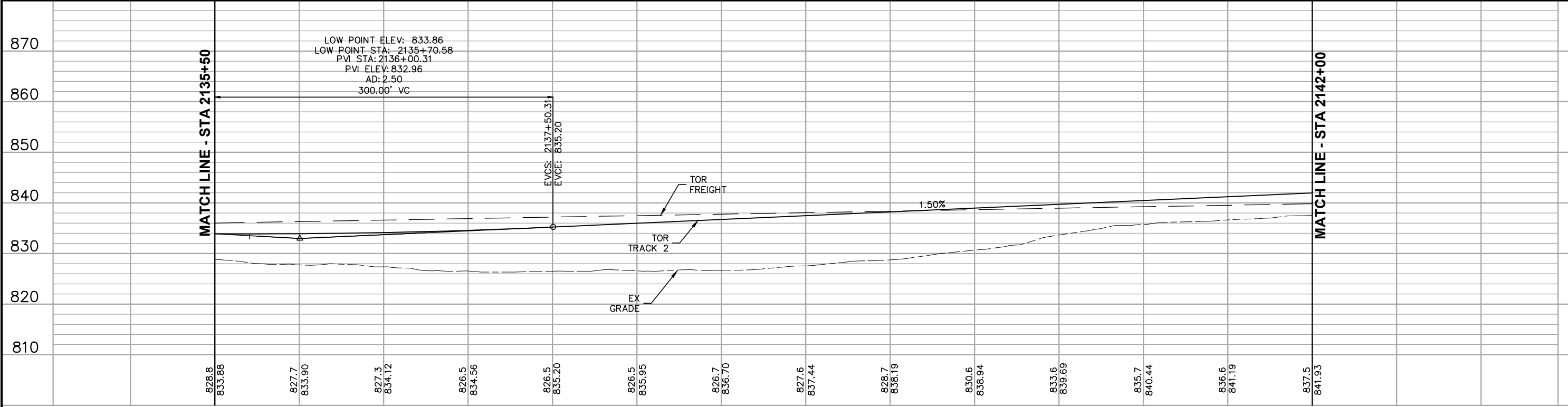
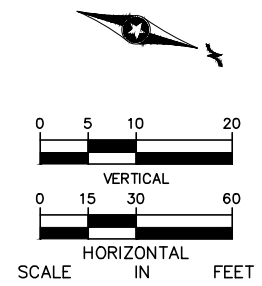
Dec. 03 2015 02:44 pm H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-PPFL.dwg By: V-Prudho



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

CURVE NO 1-19	
R	= 2250.00'
Lc	= 1171.72'
Ls	= 90.00'
Ea	= 1.75"
Eu	= 1.81"
Vd	= 45 MPH

CURVE NO 2-19	
R	= 2250.00'
Lc	= 1171.71'
Ls	= 90.00'
Ea	= 1.75"
Eu	= 1.81"
Vd	= 45 MPH



2135+50 2136+00 2137+00 2138+00 2139+00 2140+00 2141+00 2142+00 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT

SEGMENT GV
RAIL CORRIDOR
PLAN AND PROFILE
STA 2135+50 TO STA 2142+00

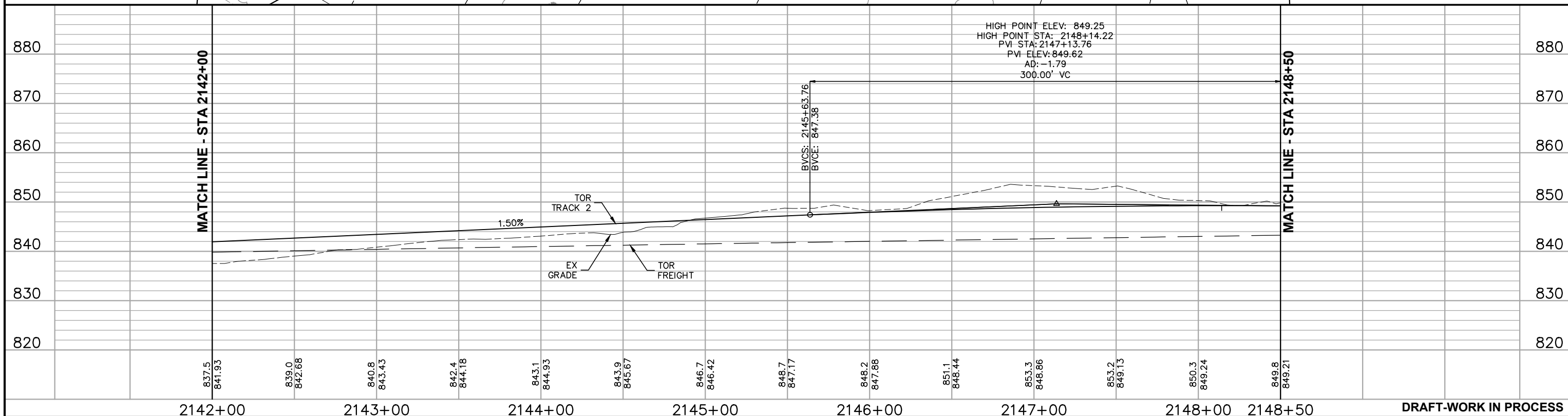
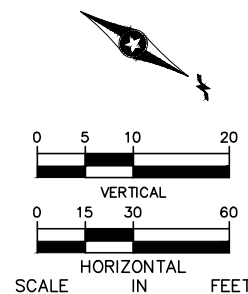
DISCIPLINE: TRACK SHEET NAME: GV-TRK-PPFL-005





SHEET
47
OF
79

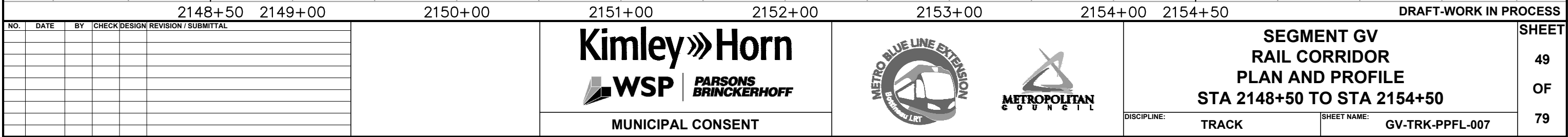
CURVE NO 1-19
R = 2250.00'
Lc = 1171.72'
Ls = 90.00'
Ea = 1.75"
Eu = 1.81"
Vd = 45 MPH

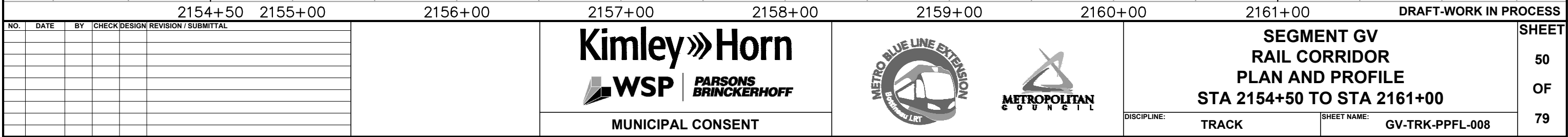
CURVE NO 2-19
R = 2250.00'
Lc = 1171.71'
Ls = 90.00'
Ea = 1.75"
Eu = 1.81"
Vd = 45 MPH

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



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	<div><div></div><div>MUNICIPAL CONSENT</div></div>	<div><div></div></div>	SEGMENT GV RAIL CORRIDOR PLAN AND PROFILE STA 2142+00 TO STA 2148+50		SHEET 48 OF 79	
								DISCIPLINE: TRACK	SHEET NAME: GV-TRK-PPFL-006		





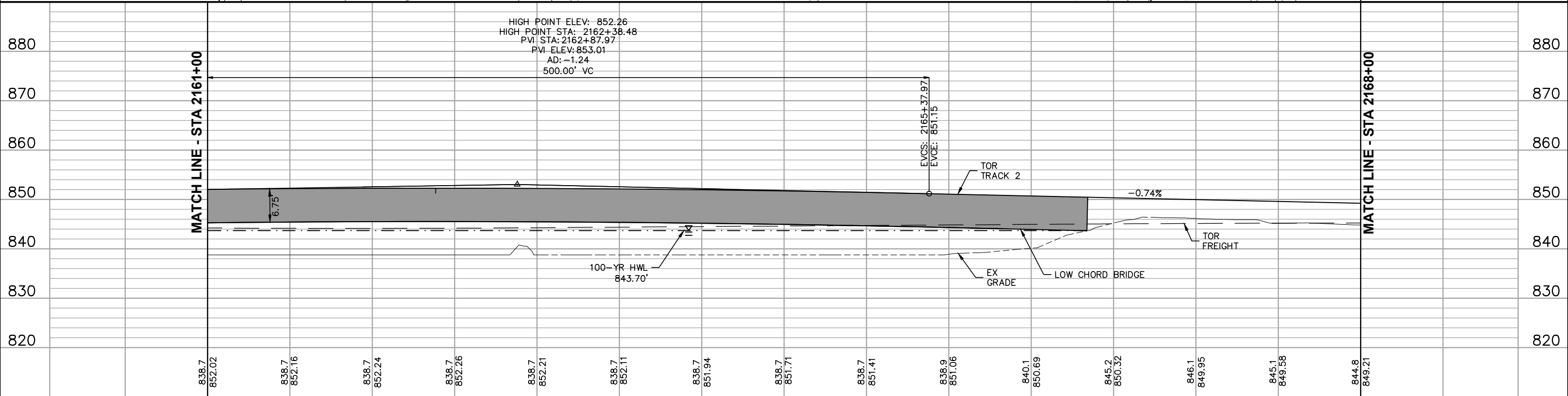
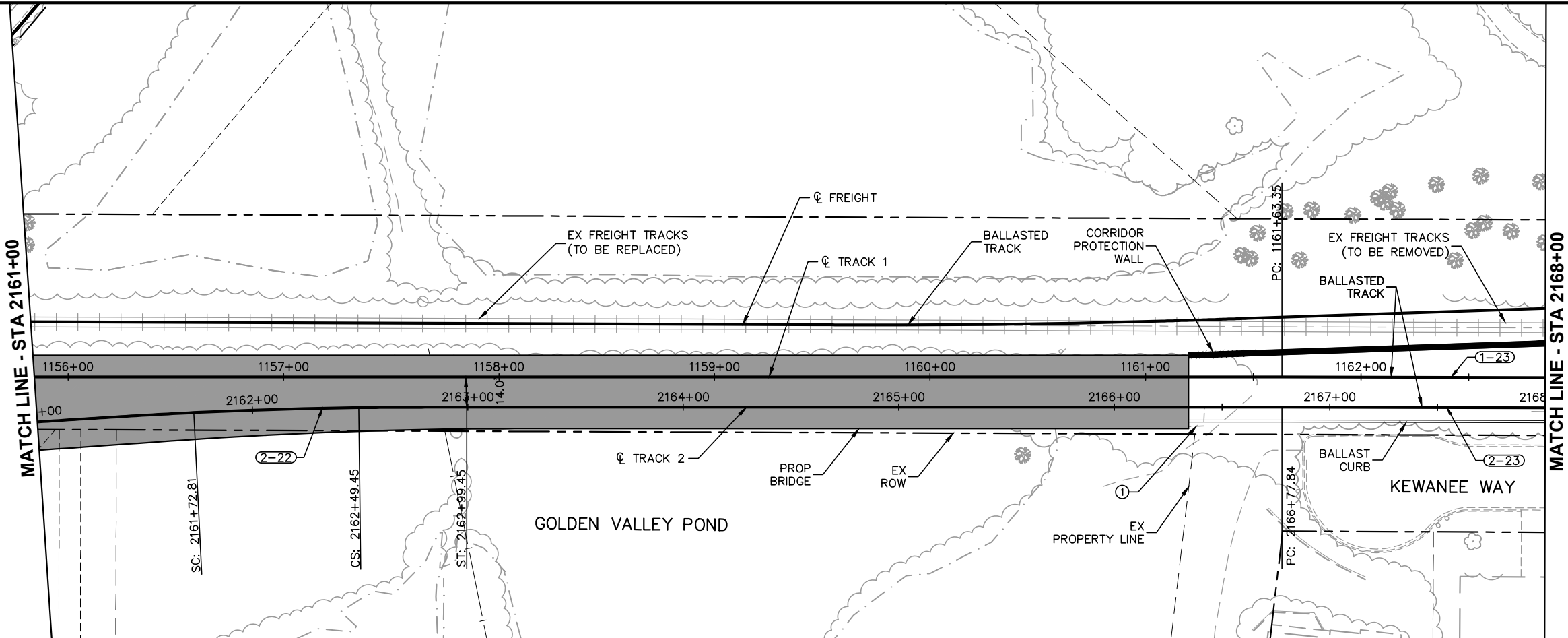
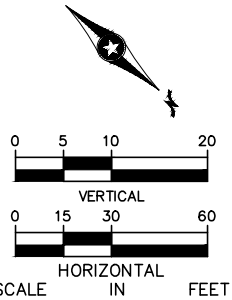
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CURVE NO 2-22
R = 2100.00'
Lc = 76.64'
Ls = 75.00', 50.00'
Ea = 1.00"
Eu = 1.31"
Vd = 35 MPH

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

CURVE NO 1-23
R = 50014.00'
Lc = 194.43'
Ls = 0.00'
Ea = 0.00"
Eu = 0.33"
Vd = 65 MPH

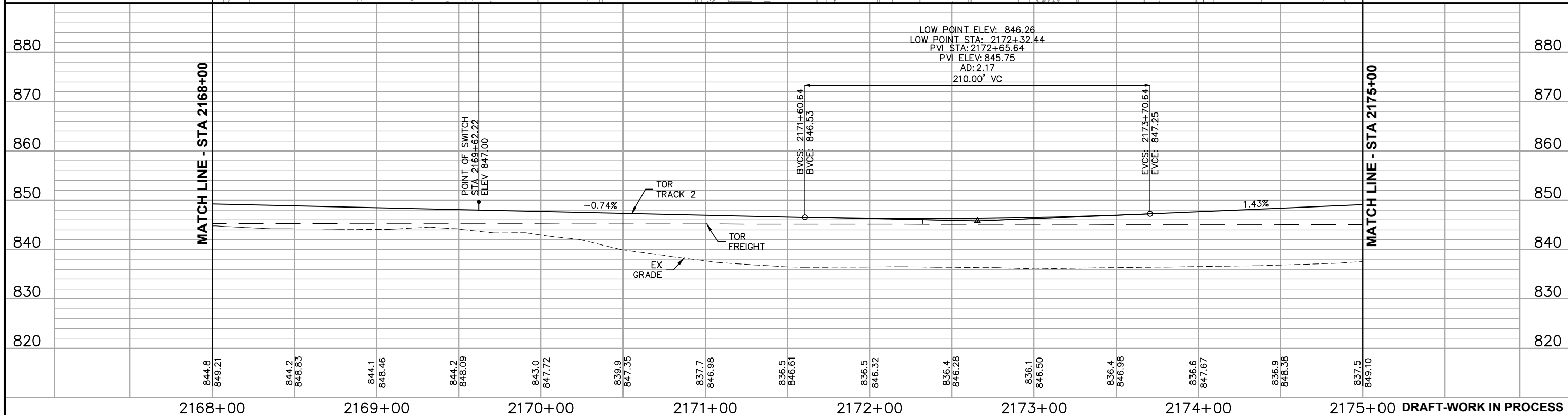
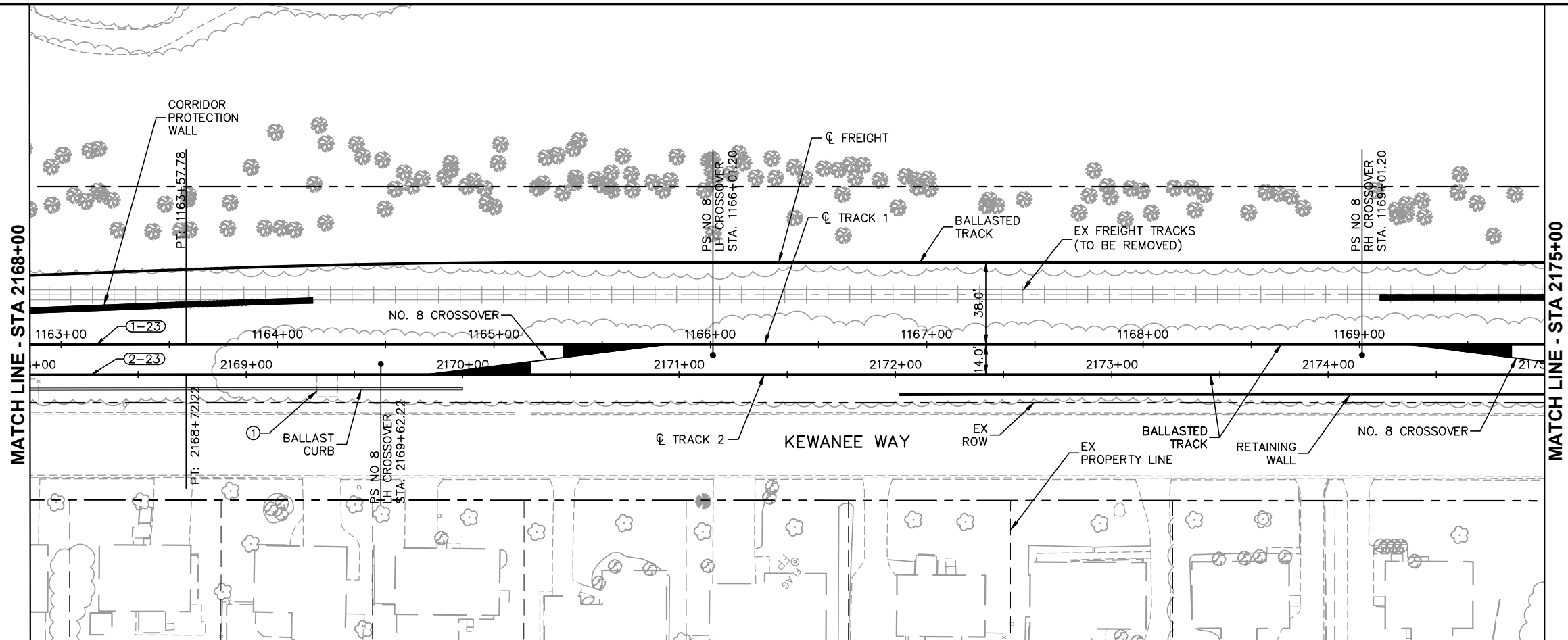
CURVE NO 2-23
R = 50000.00'
Lc = 194.38'
Ls = 0.00'
Ea = 0.00"
Eu = 0.33"
Vd = 65 MPH








2161+00						2162+00		2163+00		2164+00		2165+00		2166+00		2167+00		2168+00		DRAFT-WORK IN PROCESS	
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	<div><div><div>Kimley»Horn</div><div>WSP PARSONS BRINCKERHOFF</div><div>MUNICIPAL CONSENT</div></div><div><div>METRO BLUE LINE EXTENSION</div><div>METROPOLITAN COUNCIL</div></div><div><div>SEGMENT GV RAIL CORRIDOR PLAN AND PROFILE STA 2161+00 TO STA 2168+00</div><div>DISCIPLINE: TRACK</div></div><div><div>SHEET NAME: GV-TRK-PPFL-009</div></div></div> <td>SHEET</td>														SHEET	
																				51	
																				OF	
																				79	

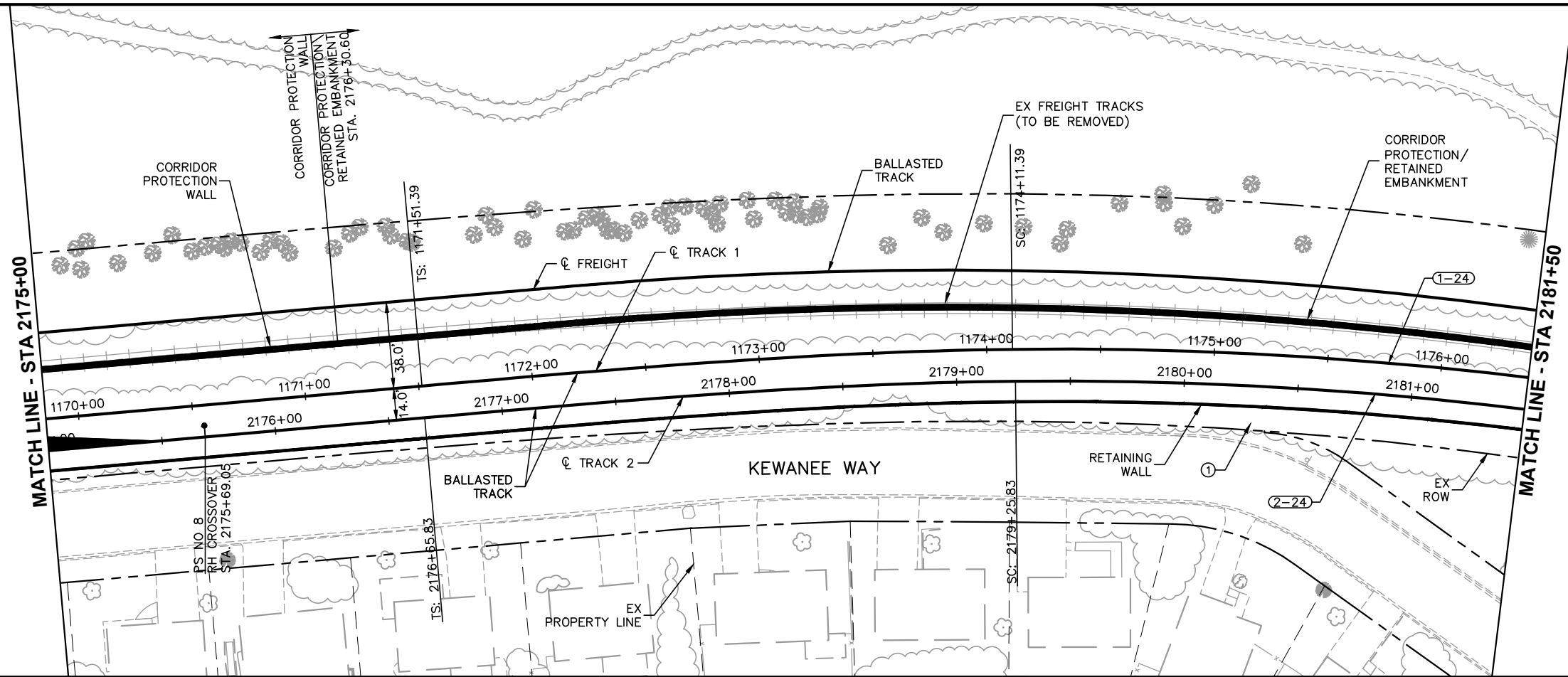
CURVE NO 1-23
R = 50014.00'
Lc = 194.43'
Ls = 0.00'
Ea = 0.00"
Eu = 0.33"
Vd = 65 MPH

CURVE NO 2-23
R = 50000.00'
Lc = 194.38'
Ls = 0.00'
Ea = 0.00"
Eu = 0.33"
Vd = 65 MPH



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	<div><div></div><div>MUNICIPAL CONSENT</div></div>	<div></div>	SEGMENT GV RAIL CORRIDOR PLAN AND PROFILE STA 2168+00 TO STA 2175+00		SHEET 52 OF 79
							DISCIPLINE: TRACK	SHEET NAME: GV-TRK-PPFL-010		

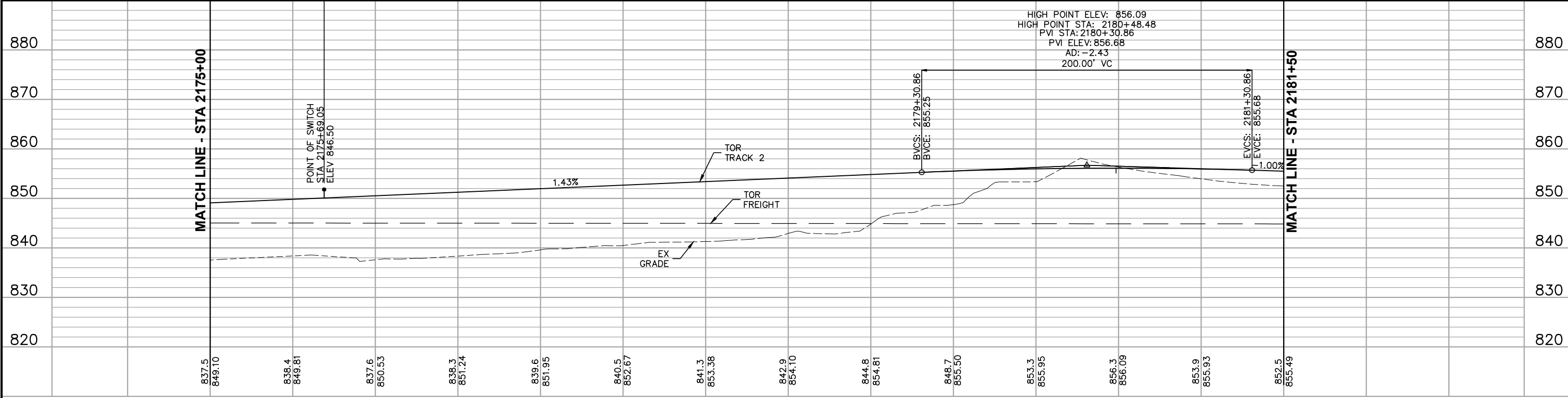
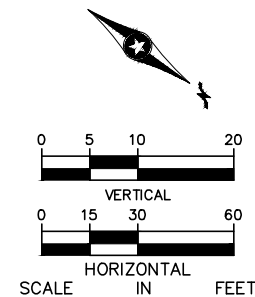
Dec. 03 2015 02:54 pm H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MCP\PLAN SHEETS\TRACK\GV-TRK-PPFL.dwg By: V-Prudhno



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

CURVE NO 1-24	
R =	1714.00'
Lc =	445.49'
Ls =	260.00'
Ea =	4.00"
Eu =	2.99"
Vd =	55 MPH

CURVE NO 2-24	
R =	1700.00'
Lc =	439.73'
Ls =	260.00'
Ea =	4.00"
Eu =	3.05"
Vd =	55 MPH



2175+00 2176+00 2177+00 2178+00 2179+00 2180+00 2181+00 2181+50 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

 **PARSONS BRINCKERHOFF**

MUNICIPAL CONSENT



SEGMENT GV
RAIL CORRIDOR
PLAN AND PROFILE
STA 2175+00 TO STA 2181+50

DISCIPLINE:	TRACK	SHEET NAME:	GV-TRK-PPFL-011
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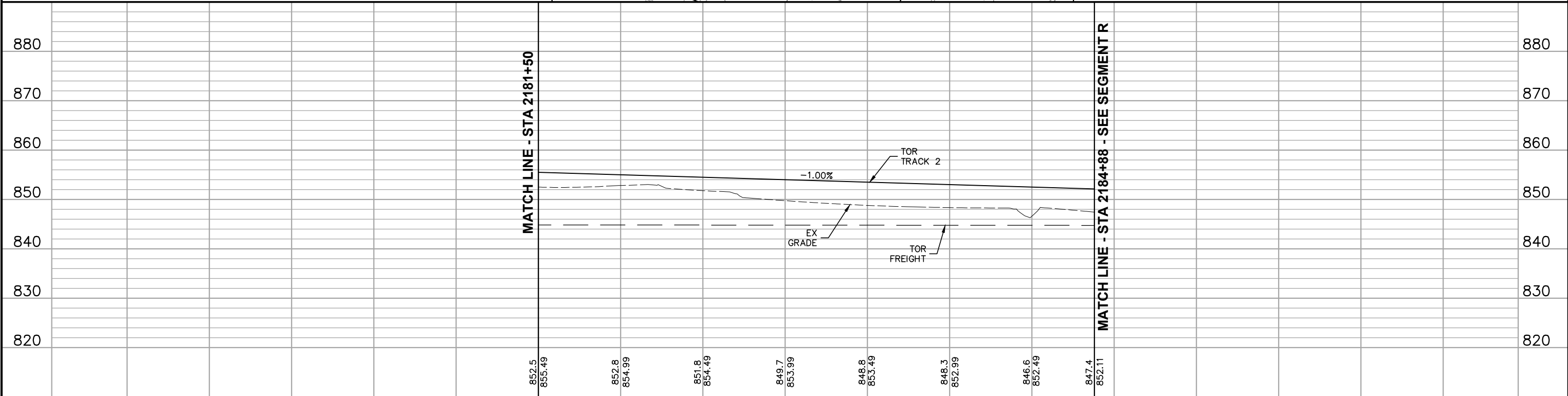
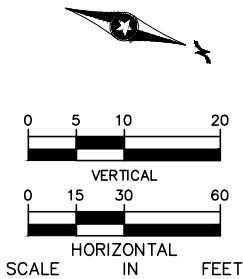
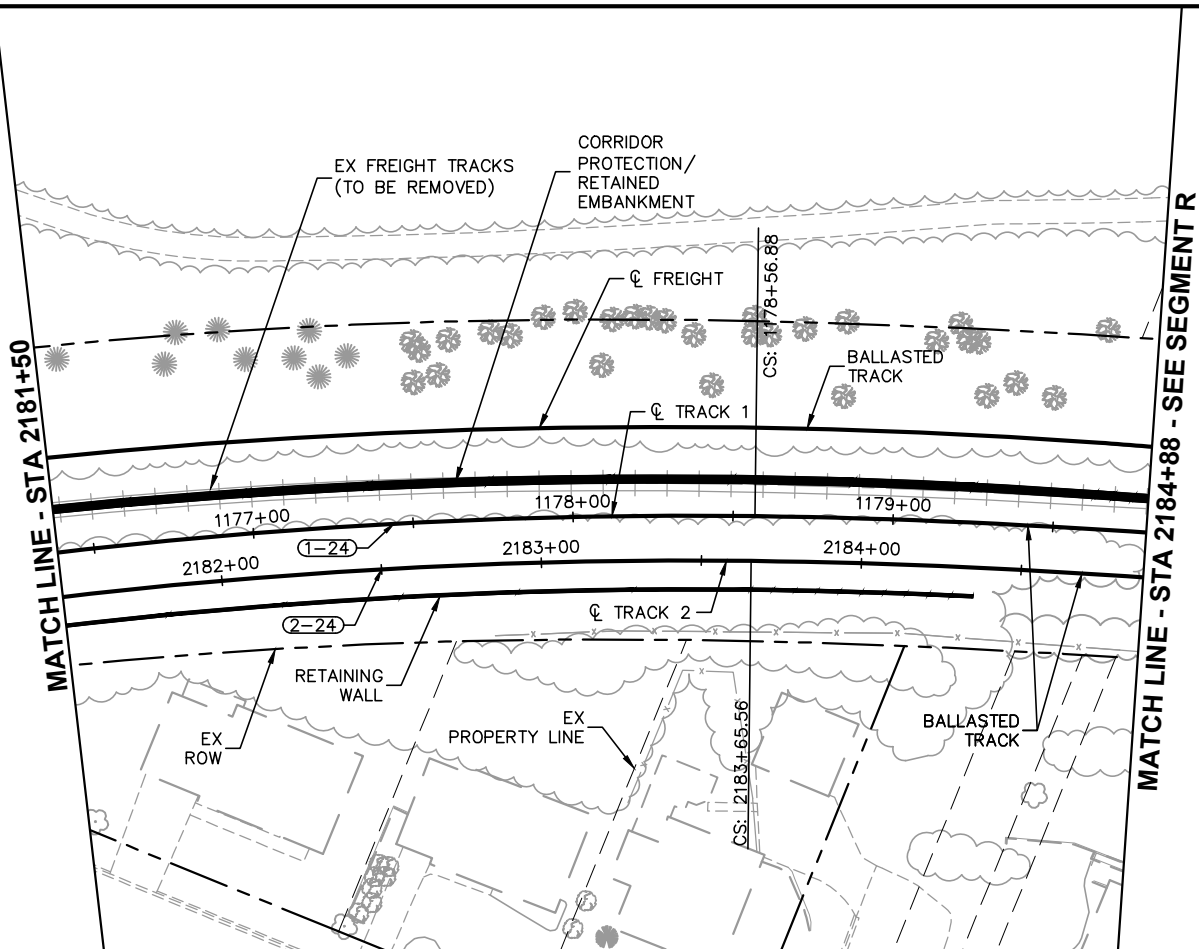
SHEET
53
OF
79

Dec, 03 2015 02:56 pm H: \\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-PPFL.dwg By: V-Prudho

CURVE NO 1-24
R = 1714.00'
Lc = 445.49'
Ls = 260.00'
Ea = 4.00"
Eu = 2.99"
Vd = 55 MPH

CURVE NO 2-24
R = 1700.00'
Lc = 439.73'
Ls = 260.00'
Ea = 4.00"
Eu = 3.05"
Vd = 55 MPH

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



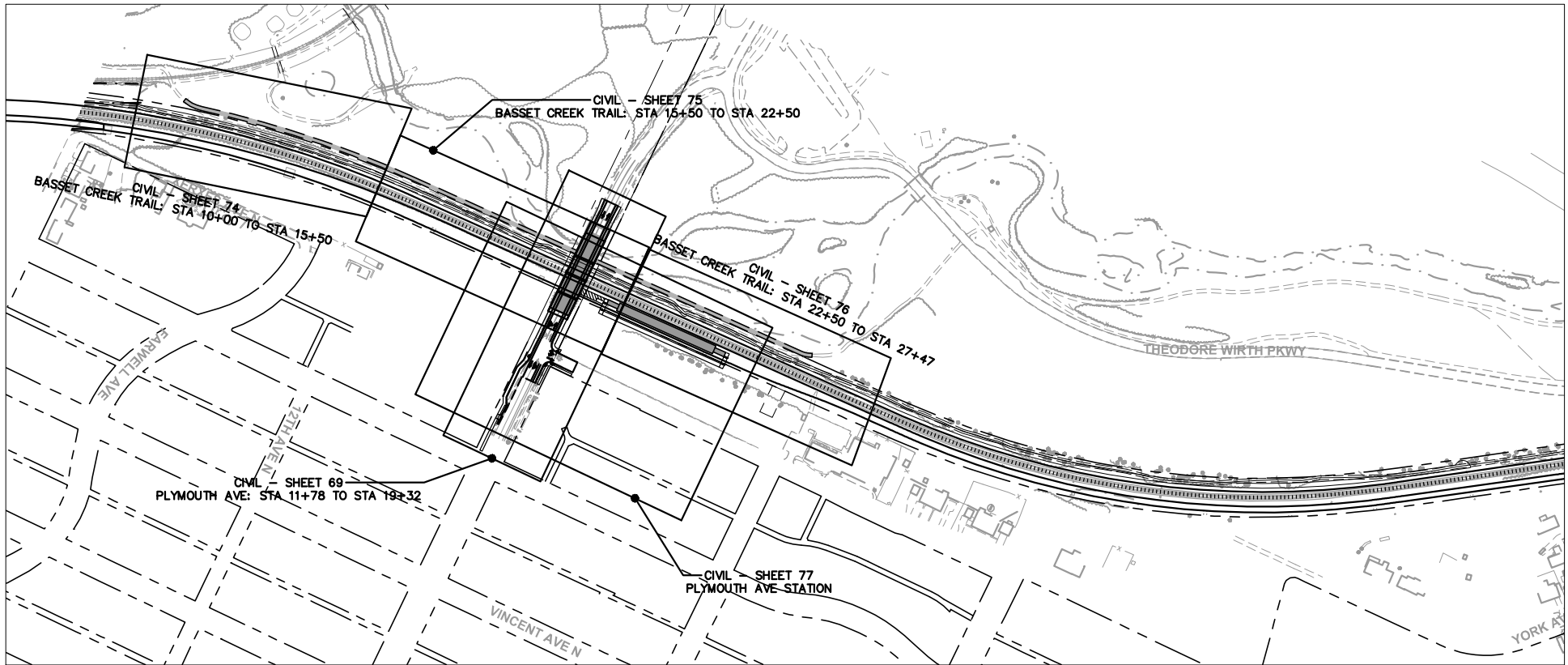
2181+50 2182+00 2183+00 2184+00 2184+88

DRAFT-WORK IN PROCESS

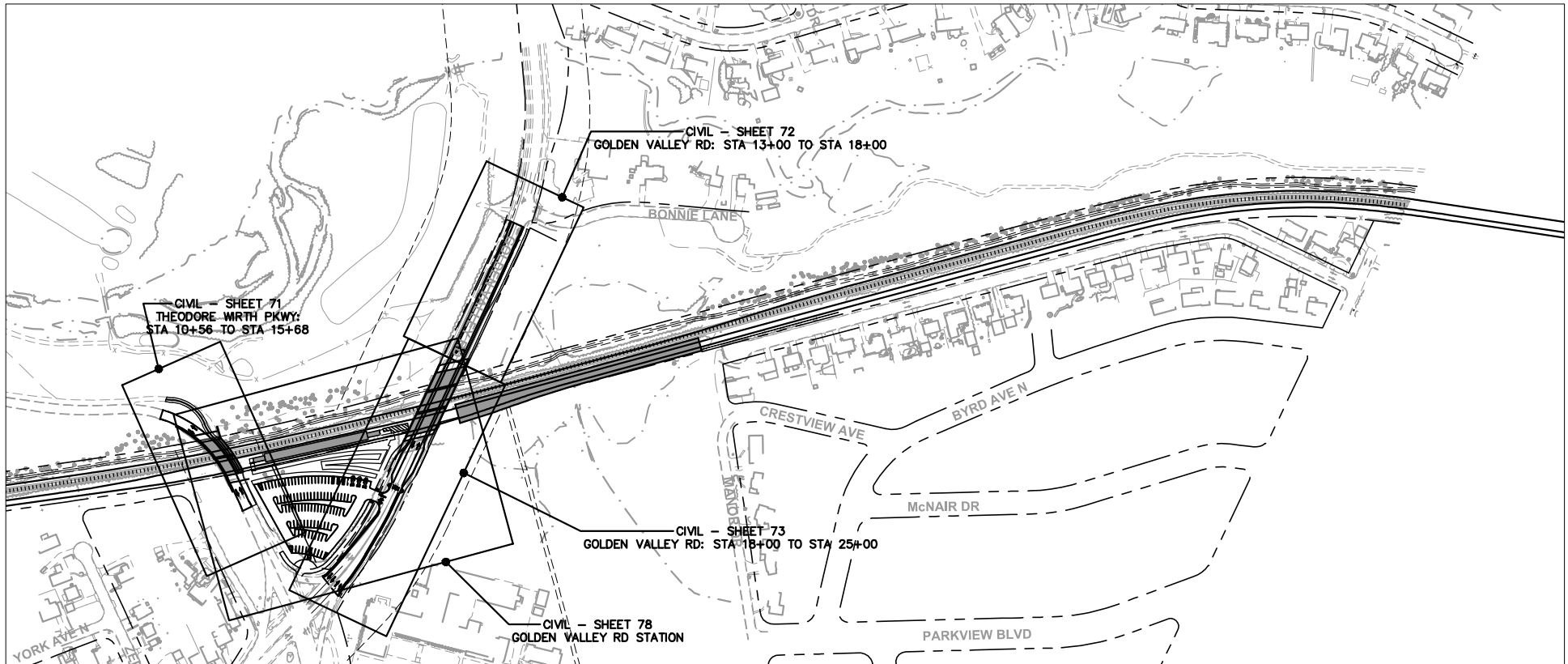
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

 	 	SEGMENT GV RAIL CORRIDOR PLAN AND PROFILE STA 2181+50 TO STA 2184+88		SHEET 54 OF 79
		DISCIPLINE: TRACK	SHEET NAME: GV-TRK-PPFL-012	
MUNICIPAL CONSENT				

Dec. 07 2015 11:10 am H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIV\GV-CIV-IDX.dwg By: V-MuelleAL



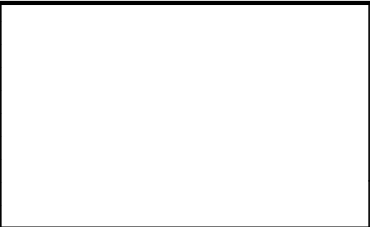
SEE BELOW



SEE ABOVE



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



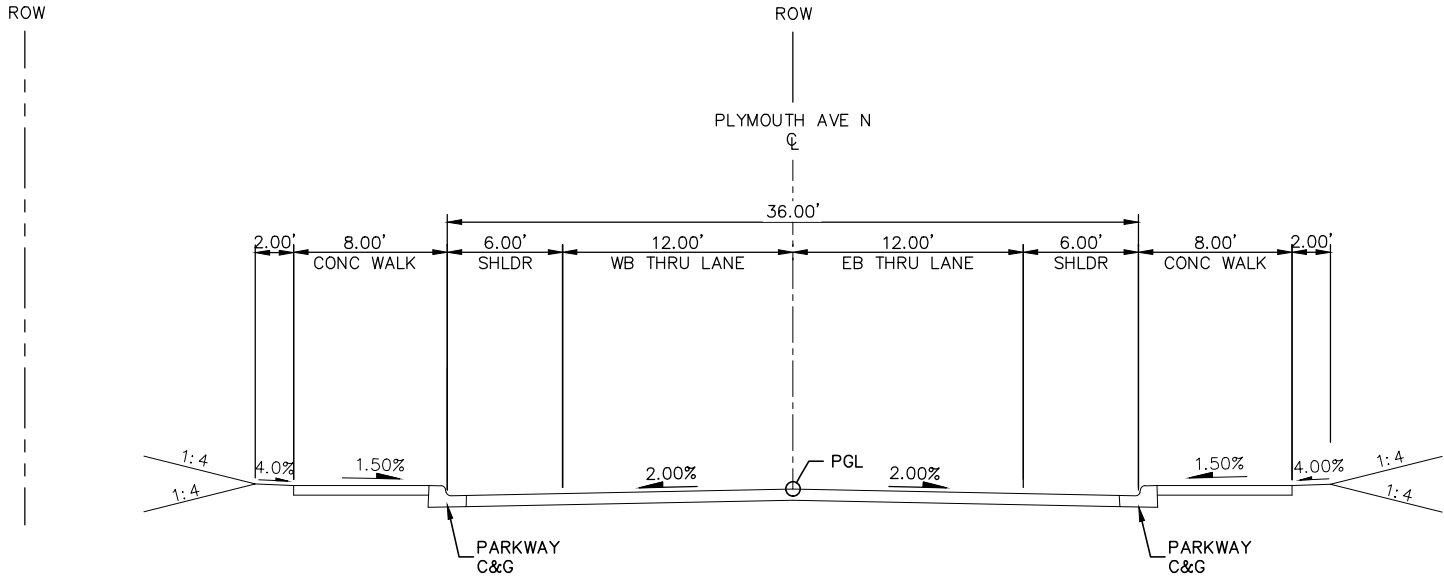
DISCIPLINE: CIVIL

SHEET NAME: GV-CIV-IDX-001

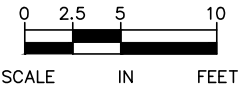
SEGMENT GV
CIVIL
SHEET LAYOUT INDEX

Dec, 03 2015 01:46 pm H:\BPO\550_Design_Consultant\CAD\005--SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-NelsonHA

NOTES:
① SLOPES LISTED ARE V:H

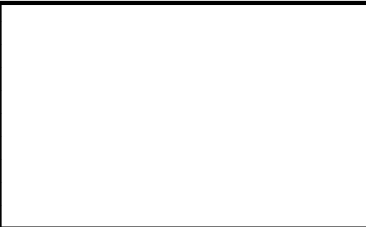


TYPICAL SECTION - PLYMOUTH AVE N
STA 12+07 TO STA 13+04





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



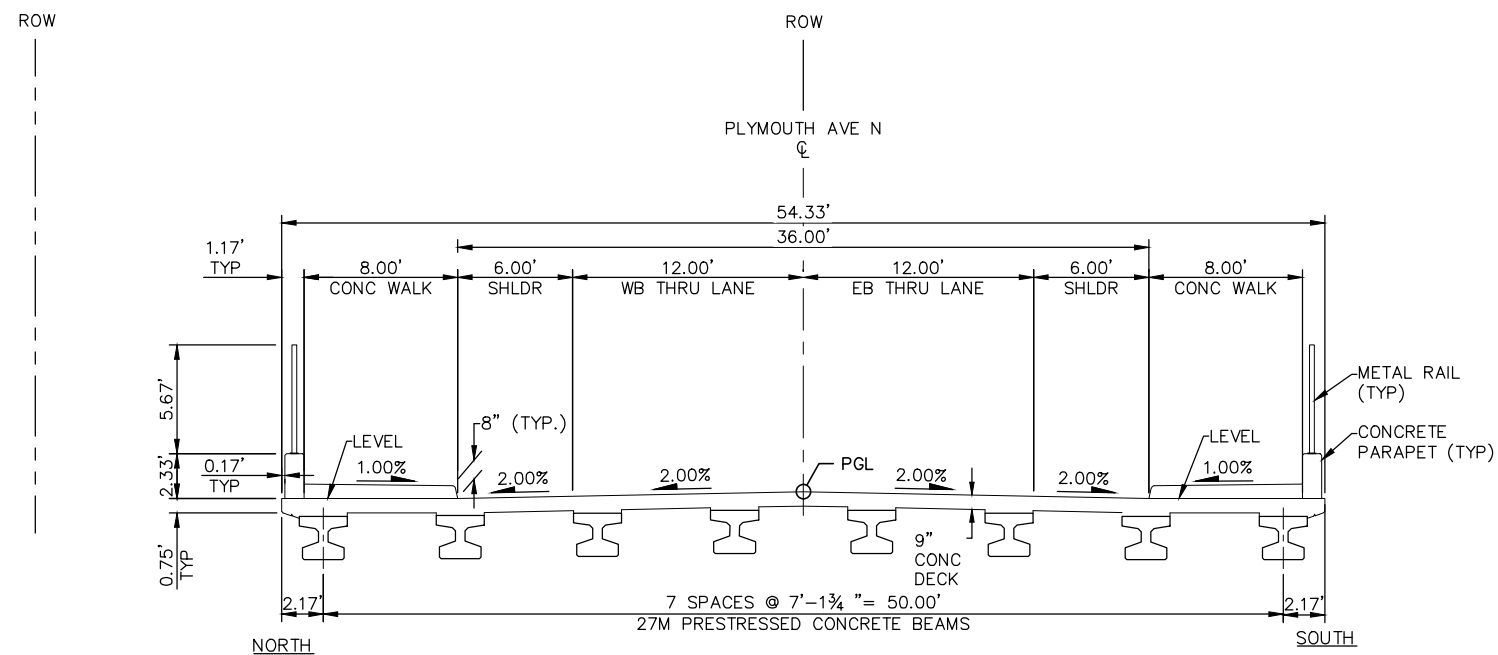
SEGMENT GV
PLYMOUTH AVE N
TYPICAL SECTIONS

DISCIPLINE: CIVIL

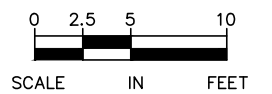
SHEET NAME: GV-CIV-TYPS-001

SHEET
56
OF
79

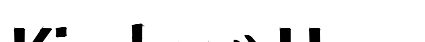


① SLOPES LISTED ARE V:H



TYPICAL SECTION - PROPOSED PLYMOUTH AVE N BRIDGE
STA 13+04 TO STA 15+16

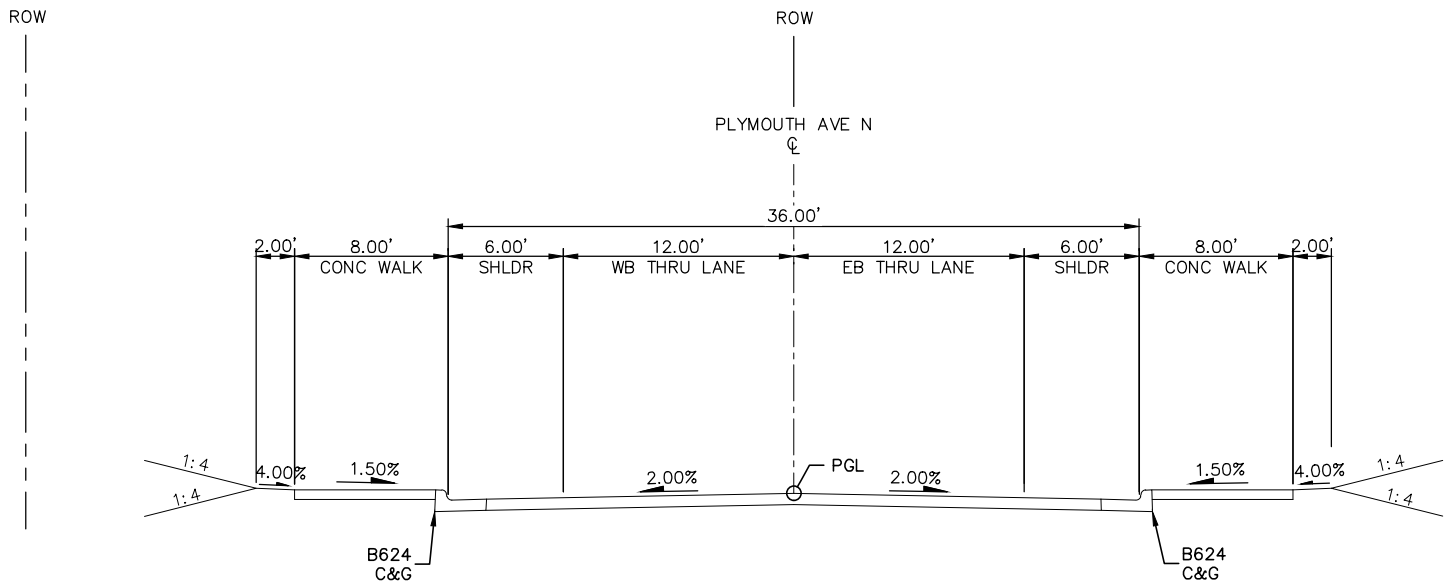


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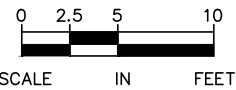
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Dec, 03 2015 01:46 pm H: \\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-NelsonHA

NOTES:
① SLOPES LISTED ARE V:H

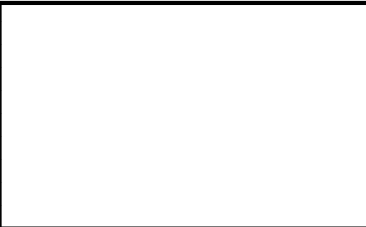


TYPICAL SECTION - PLYMOUTH AVE N
STA 15+16 TO STA 16+61





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV
PLYMOUTH AVE N
TYPICAL SECTIONS

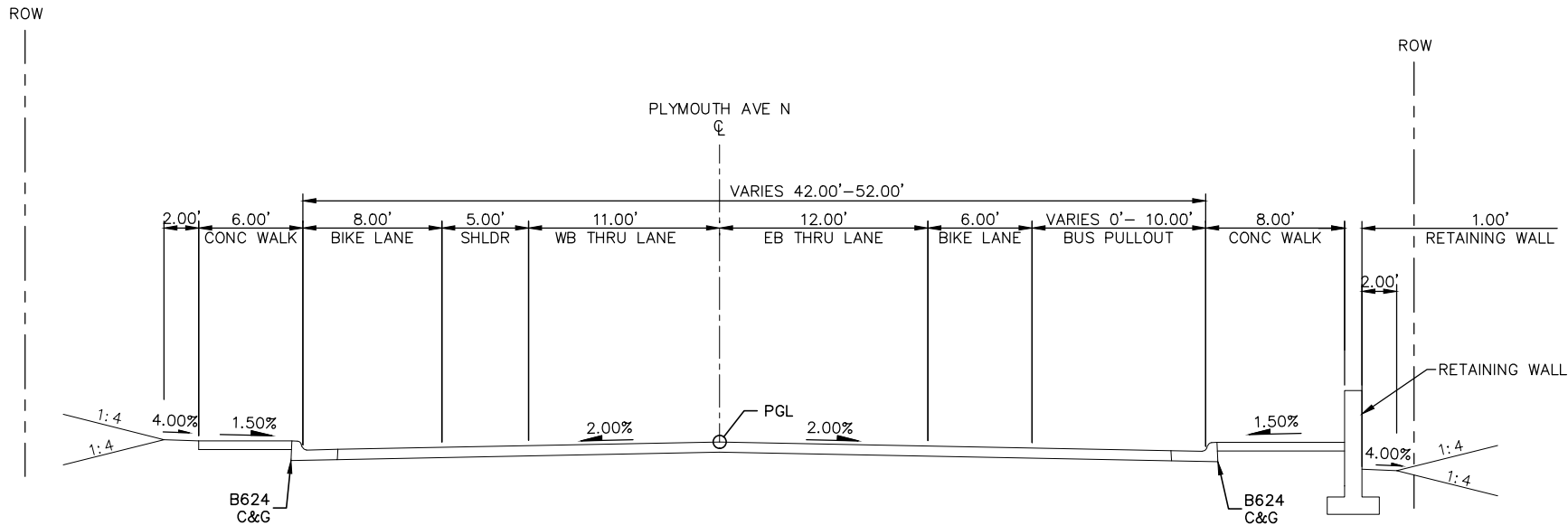
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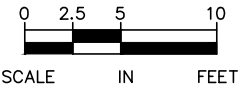
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58
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Dec, 03 2015 01:47 pm H: \BPO\550_Design_Consultant\CAD\005--SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-NelsonHA

NOTES:
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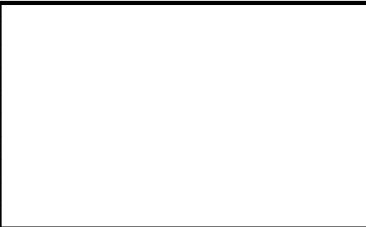


TYPICAL SECTION - PLYMOUTH AVE N
STA 16+61 TO STA 17+93





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV
PLYMOUTH AVE N
TYPICAL SECTIONS

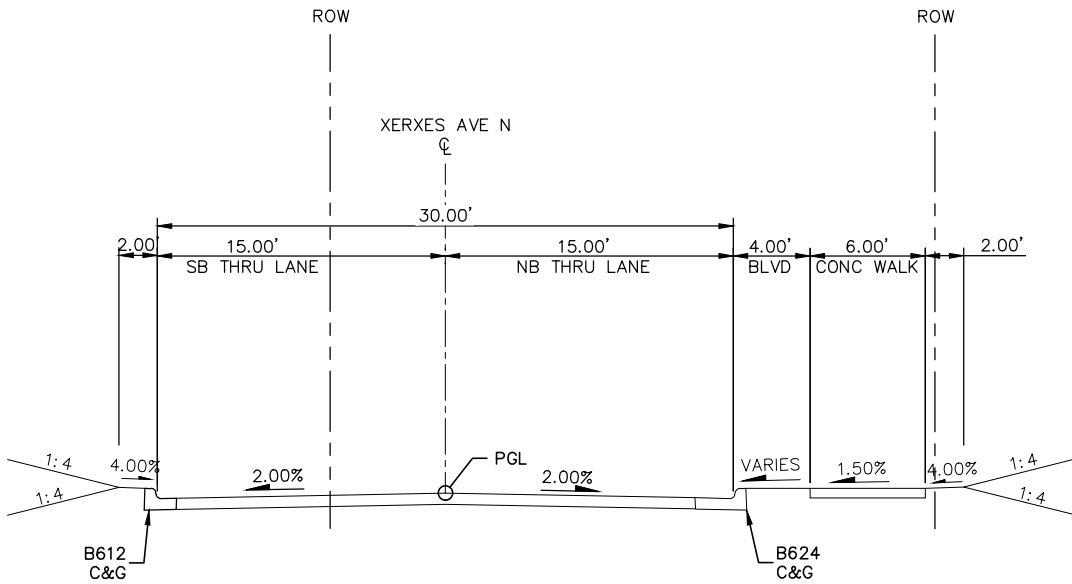
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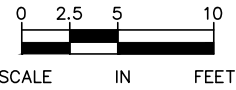
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59
OF
79

Dec. 03 2015 01:47 pm H: \\BPO\550_Design_Consultant\CAD\005--SEGMENT--GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-NelsonHA

NOTES:
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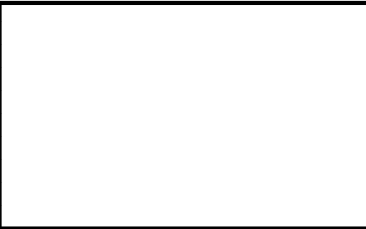


TYPICAL SECTION - XERXES AVE N
STA 20+23 TO STA 20+99





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT

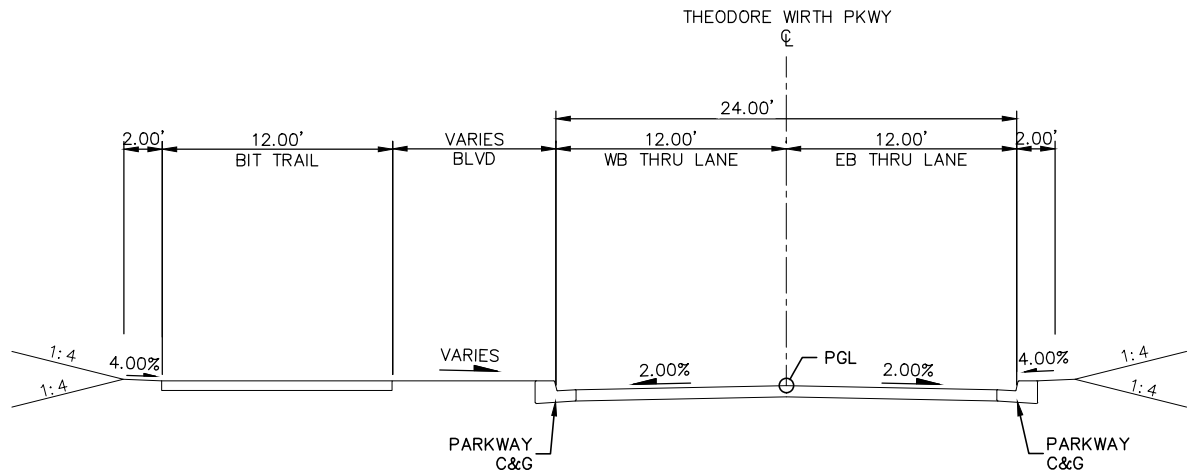


SEGMENT GV
XERXES AVE N
TYPICAL SECTIONS

DISCIPLINE: CIVIL

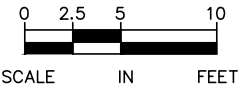
SHEET NAME: GV-CIV-TYPS-005

SHEET
60
OF
79



TYPICAL SECTION - THEODORE WIRTH PKWY
STA 11+30 TO STA 12+67

- NOTES:
- ① SLOPES LISTED ARE V:H
 - ② EXISTING RIGHT-OF-WAY IS LOCATED OUTSIDE OF THE EXTENTS OF THE TYPICAL SECTION



DRAFT-WORK IN PROCESS

NO. DATE BY CHECK DESIGN REVISION / SUBMITTAL						SEGMENT GV THEODORE WIRTH PKWY TYPICAL SECTIONS		SHEET 61 OF 79
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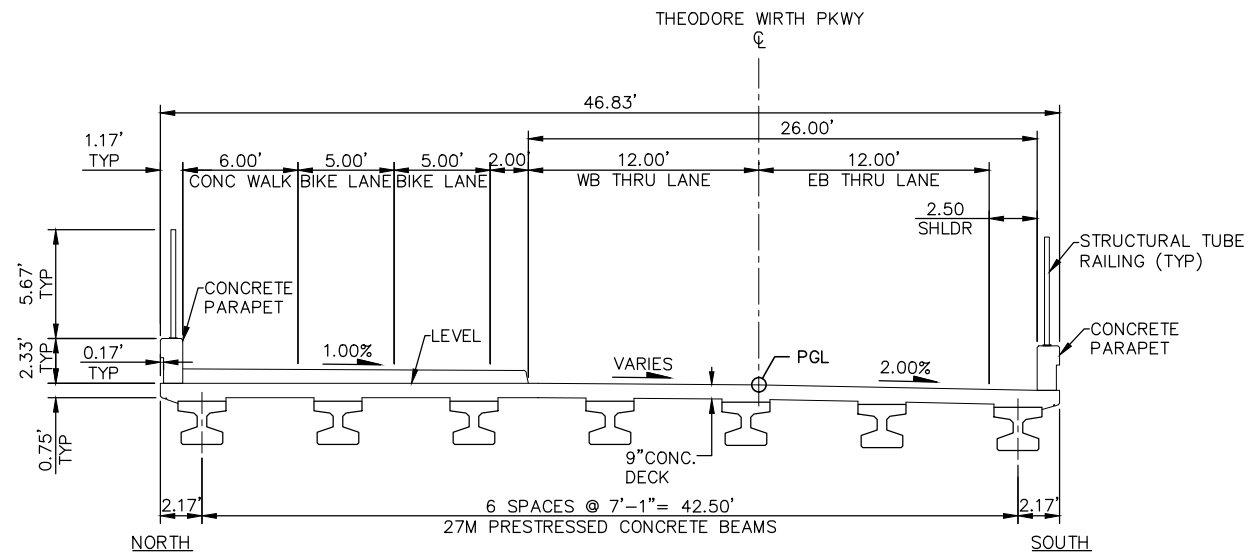
Kimley»Horn

MUNICIPAL CONSENT

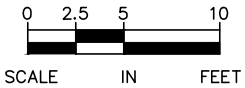


Dec, 07 2015 12:02 pm H:\BPO\550_Design_Consultant\CAD\005--SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-MuelleAL

- NOTES:
- ① SLOPES LISTED ARE V:H
 - ② EXISTING RIGHT-OF-WAY IS LOCATED OUTSIDE OF THE EXTENTS OF THE TYPICAL SECTION

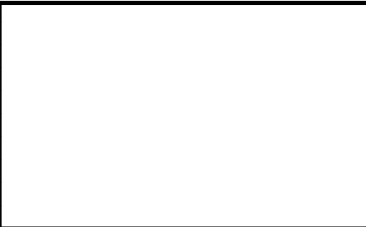


TYPICAL SECTION - PROPOSED THEODORE WIRTH PKWY BRIDGE
STA 12+67 TO STA 13+74





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV
THEORDORE WIRTH PKWY
TYPICAL SECTIONS

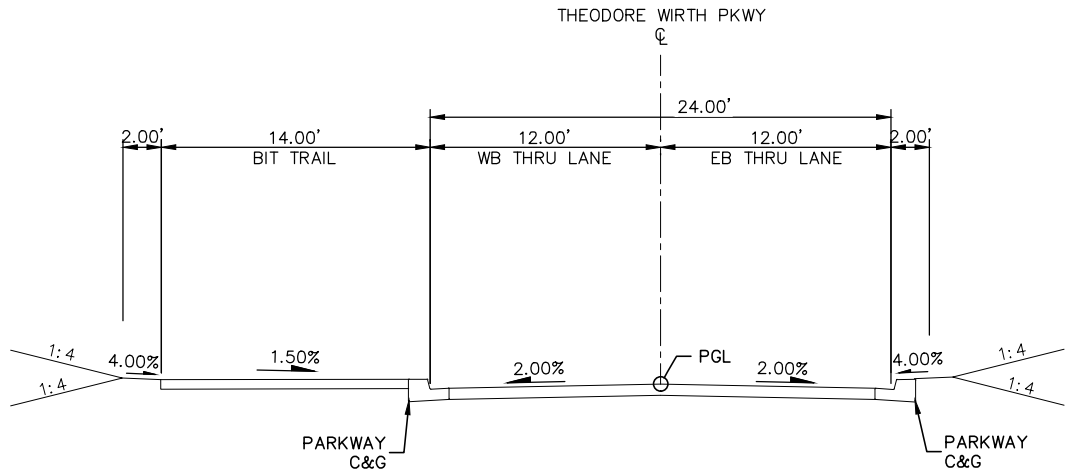
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SHEET NAME: GV-CIV-TYPS-007

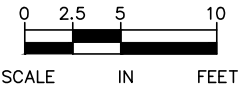
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Dec, 07 2015 12:02 pm H: \\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-MuelleAL

- NOTES:
- ① SLOPES LISTED ARE V:H
 - ② EXISTING RIGHT-OF-WAY IS LOCATED OUTSIDE OF THE EXTENTS OF THE TYPICAL SECTION



TYPICAL SECTION - THEODORE WIRTH PKWY
STA 13+74 TO STA 14+70




DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV
THEODORE WIRTH PKWY
TYPICAL SECTIONS

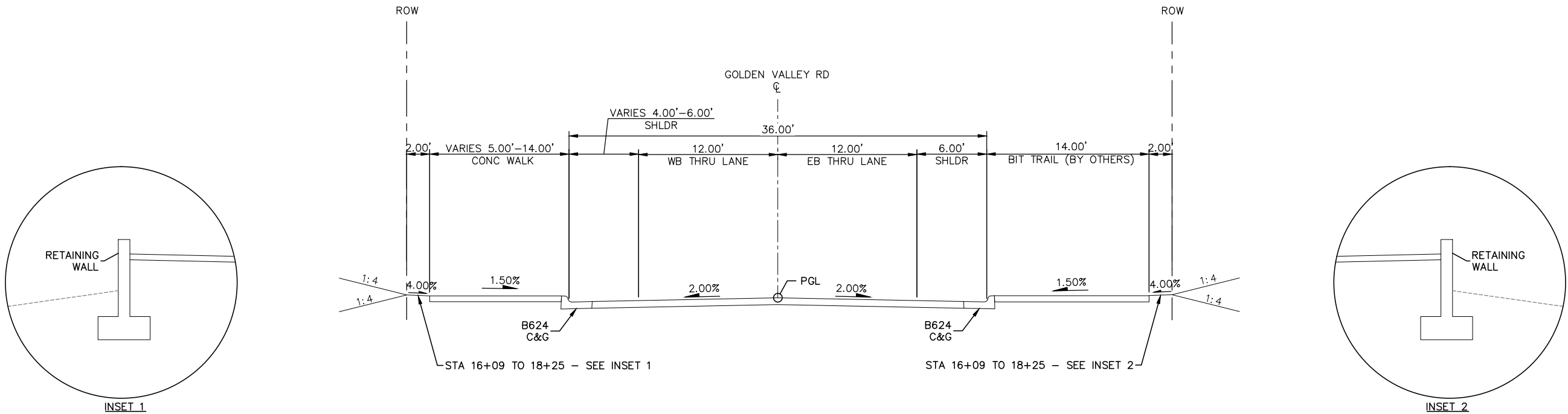
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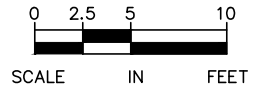
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63
OF
79

Dec, 07 2015 12:03 pm H: \\BPO\550_Design_Consultant\CAD\005--SEGMENT--GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-MuelleAL

NOTES:
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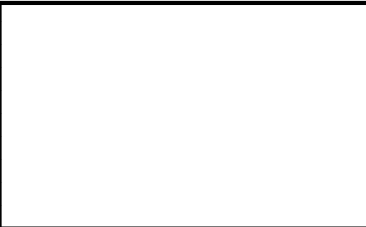


TYPICAL SECTION - GOLDEN VALLEY RD
STA 14+08 TO STA 18+25
STA 20+05 TO STA 20+18





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



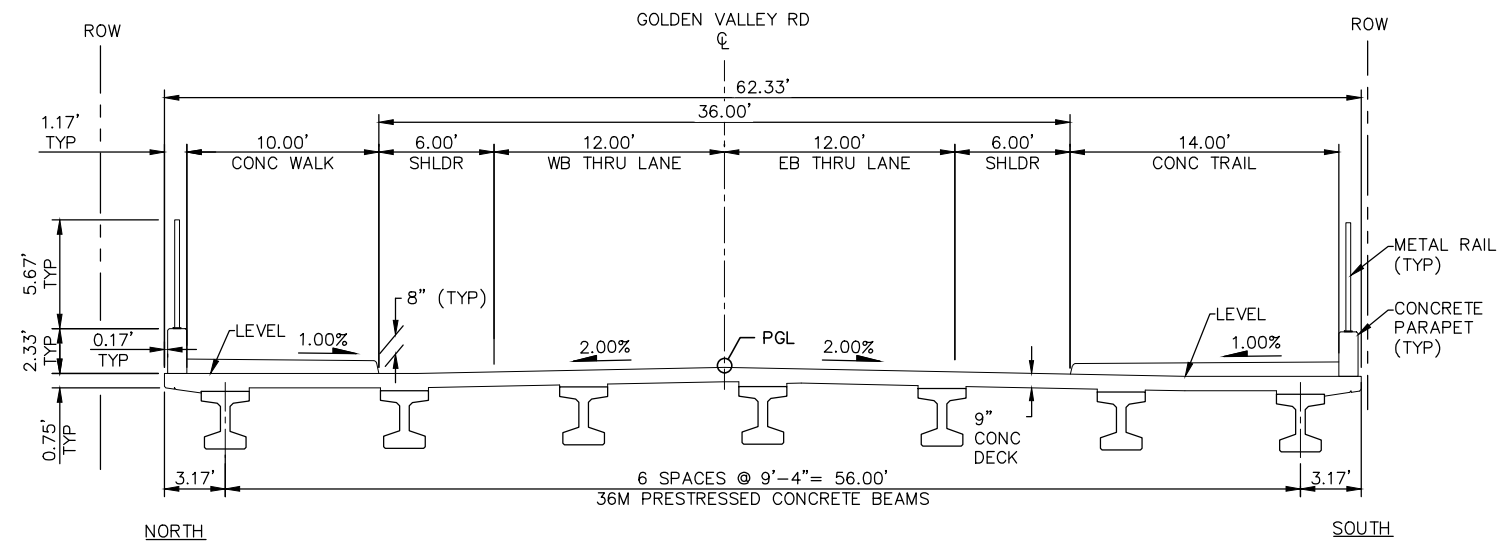
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GOLDEN VALLEY RD
TYPICAL SECTIONS

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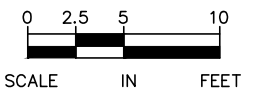
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SHEET
64
OF
79




NOTES:
① SLOPES LISTED ARE V:H



TYPICAL SECTION - PROPOSED GOLDEN VALLEY RD BRIDGE
STA 18+25 TO STA 20+05

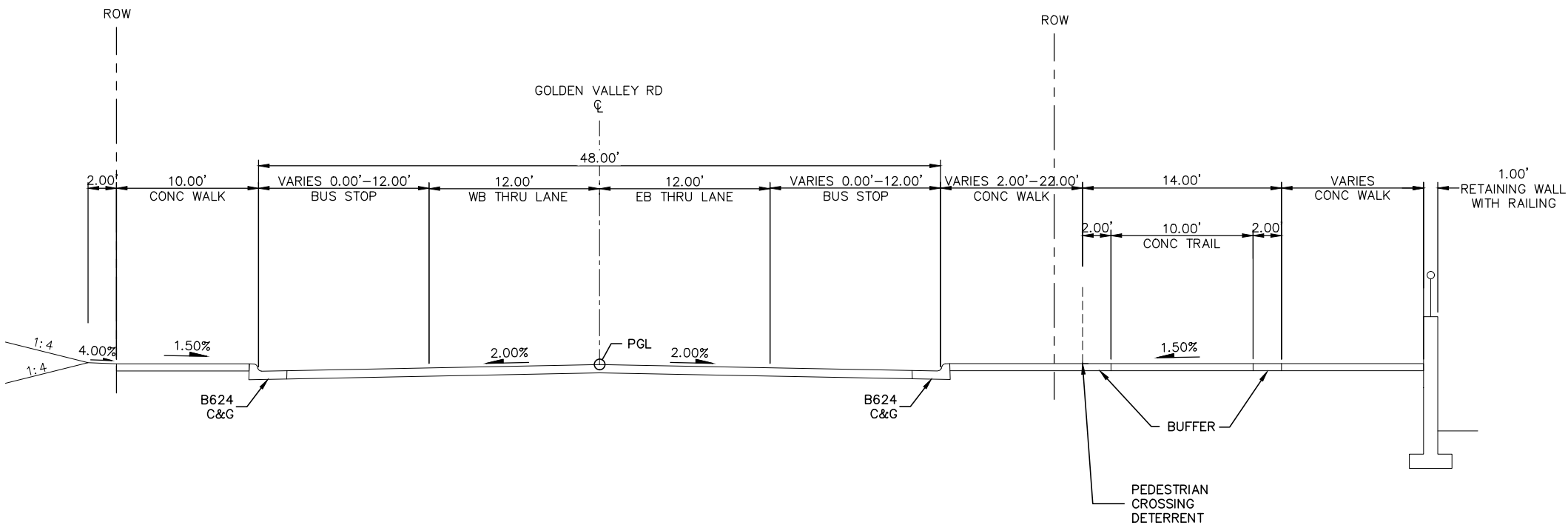


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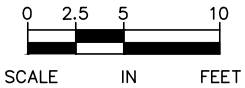
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MUNICIPAL CONSENT																

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NOTES:
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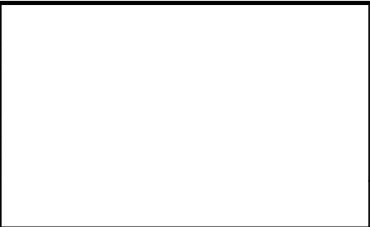


TYPICAL SECTION - GOLDEN VALLEY RD
STA 20+18 TO STA 21+52





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV
GOLDEN VALLEY RD
TYPICAL SECTIONS

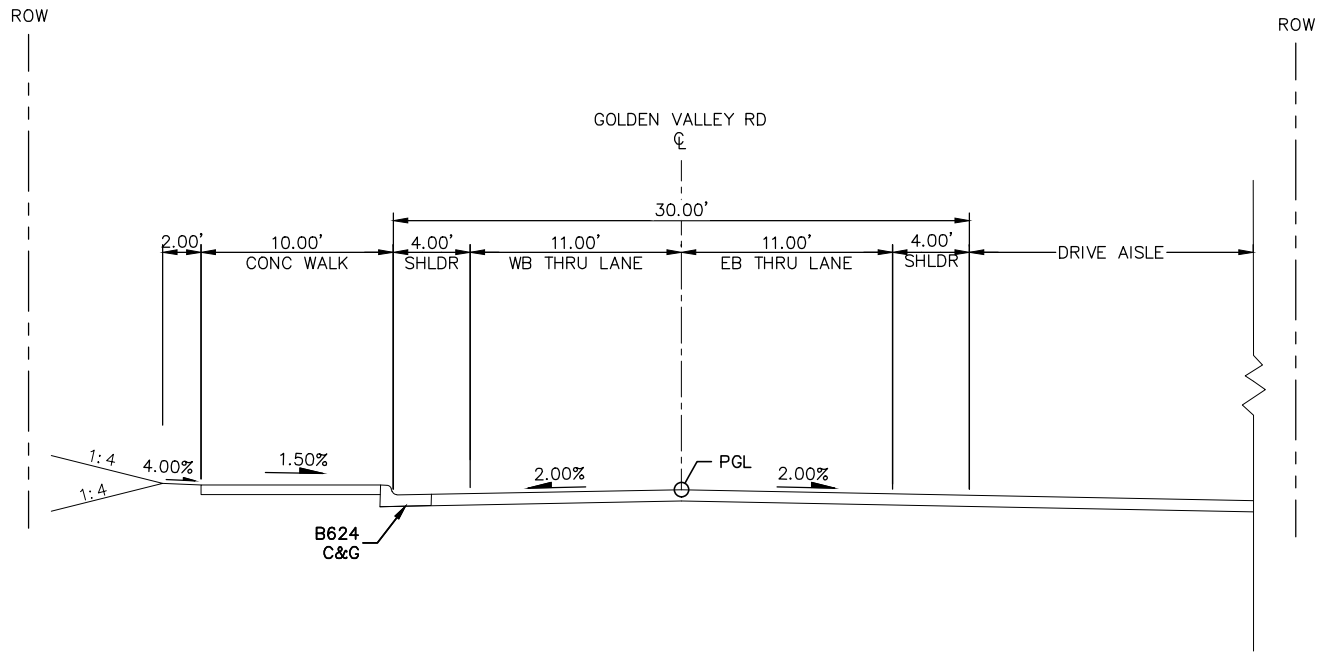
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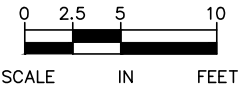
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OF
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NOTES:
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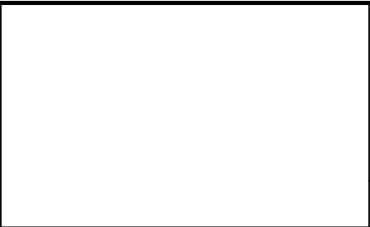


TYPICAL SECTION - GOLDEN VALLEY RD
STA 21+52 TO STA 22+35





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV
GOLDEN VALLEY RD
TYPICAL SECTIONS

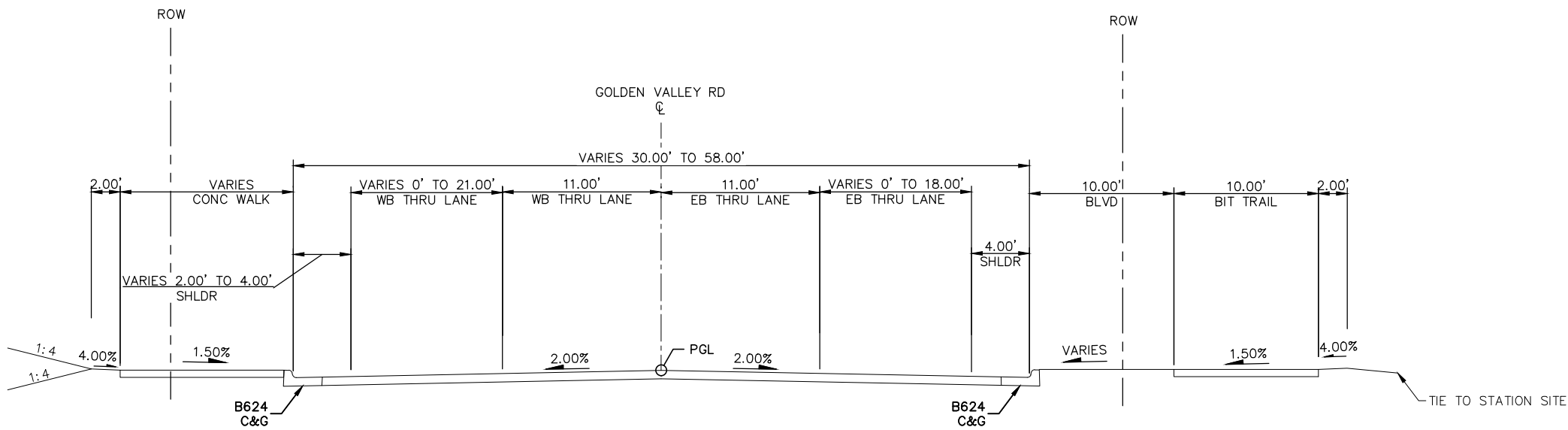
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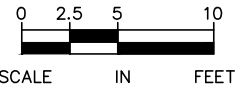
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NOTES:
① SLOPES LISTED ARE V:H

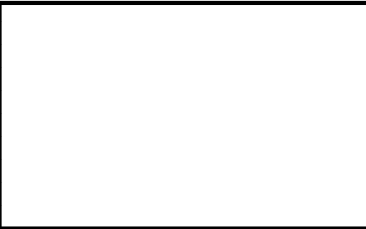


TYPICAL SECTION - GOLDEN VALLEY RD
STA 22+35 TO STA 24+67





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV
GOLDEN VALLEY RD
TYPICAL SECTIONS

DISCIPLINE: CIVIL

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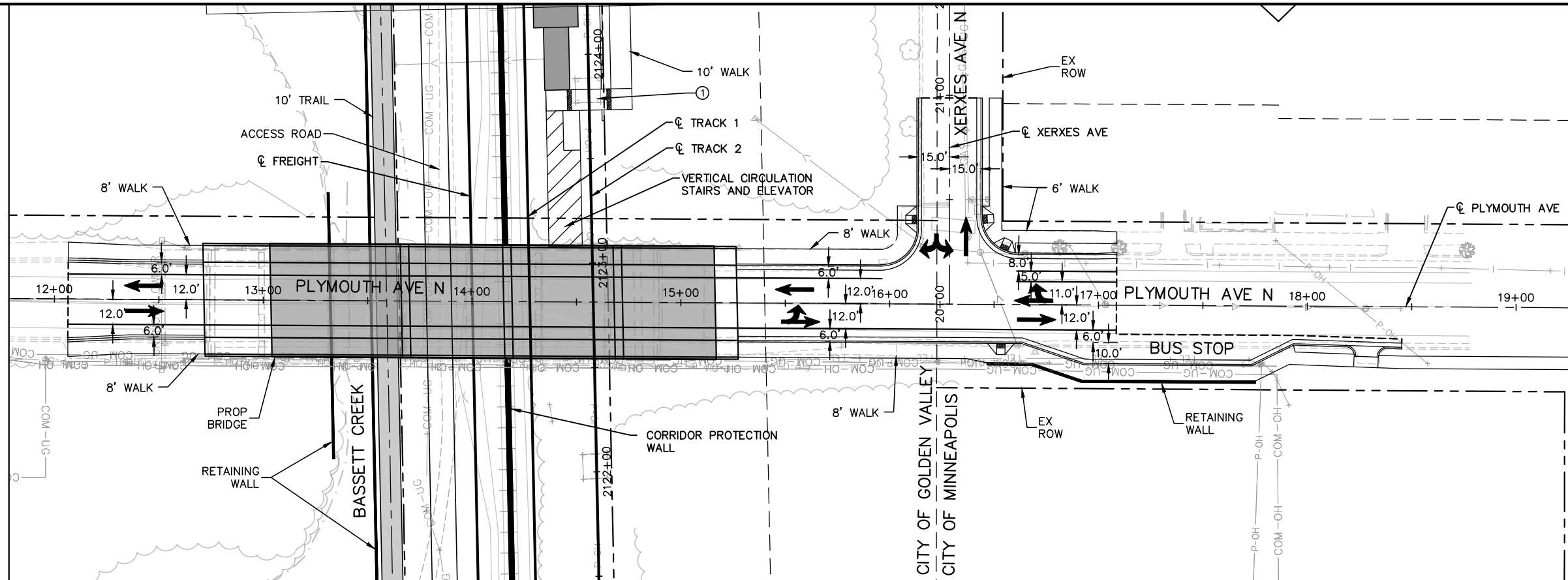
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68

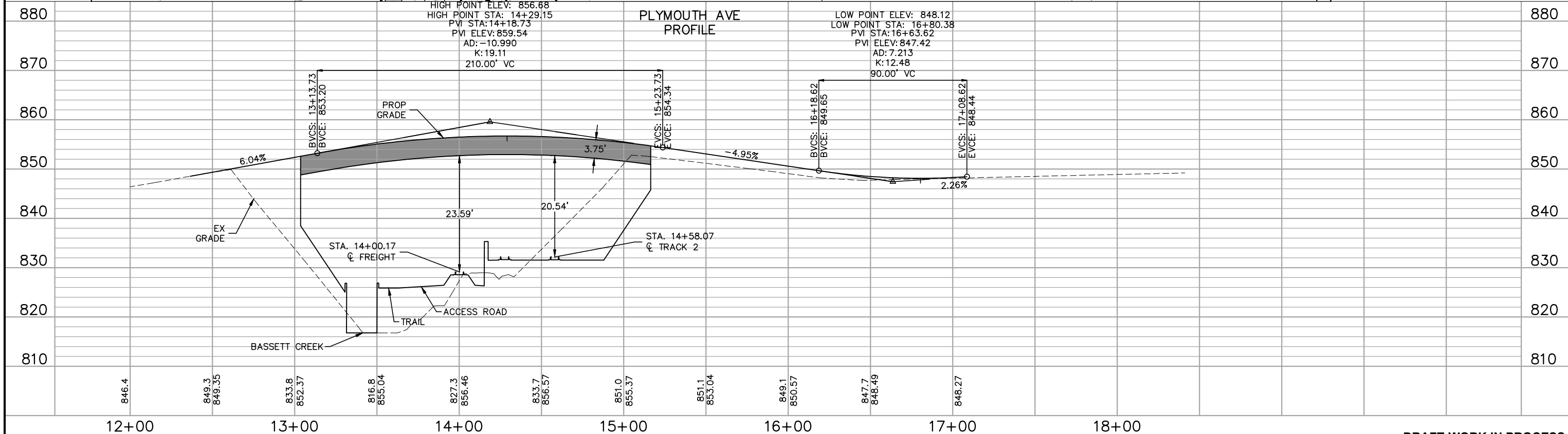
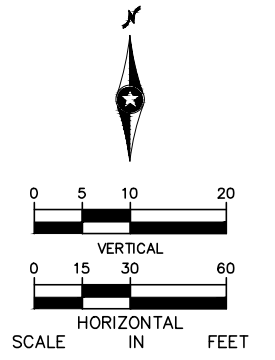
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NOTES:
① XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW. SEE TRACK TYPICAL SECTIONS.



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

Kimley»Horn

MUNICIPAL CONSENT



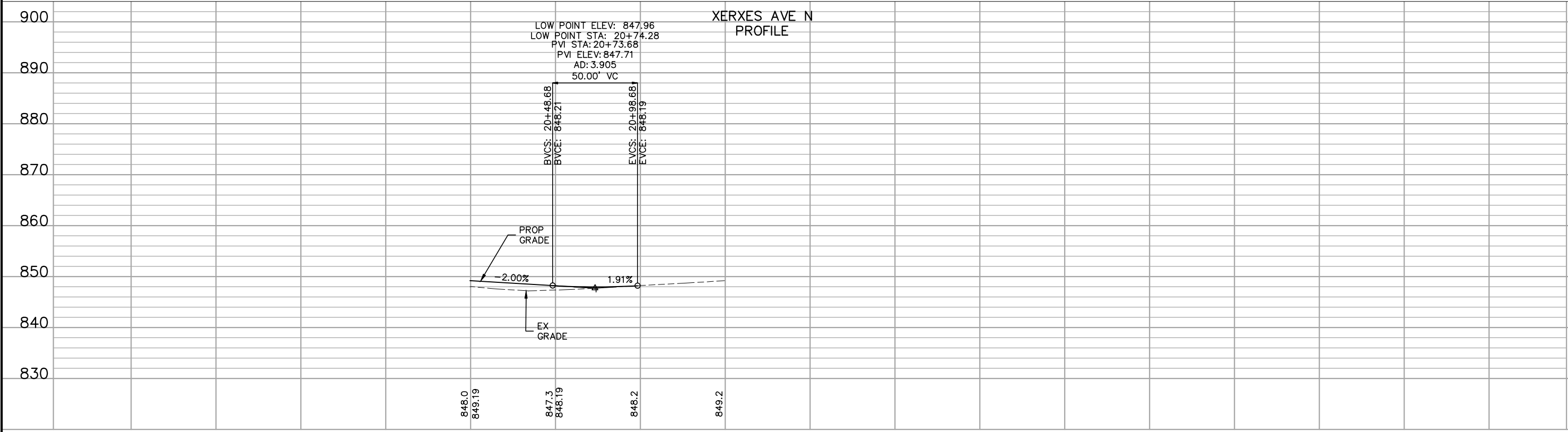
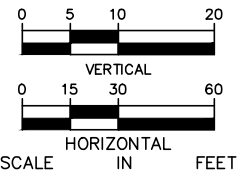
SEGMENT GV
PLYMOUTH AVE N
PLAN AND PROFILE
STA 11+78 TO STA 19+32

DISCIPLINE: CIVIL

SHEET NAME: GV-CIV-PPFL-001

SHEET
69
OF
79

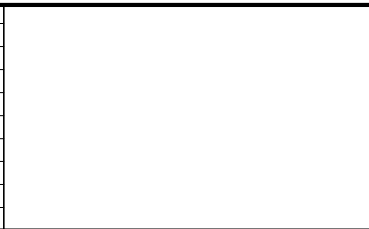
SEE SHEET 69 FOR PLAN VIEW



20+00 21+00 21+50

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



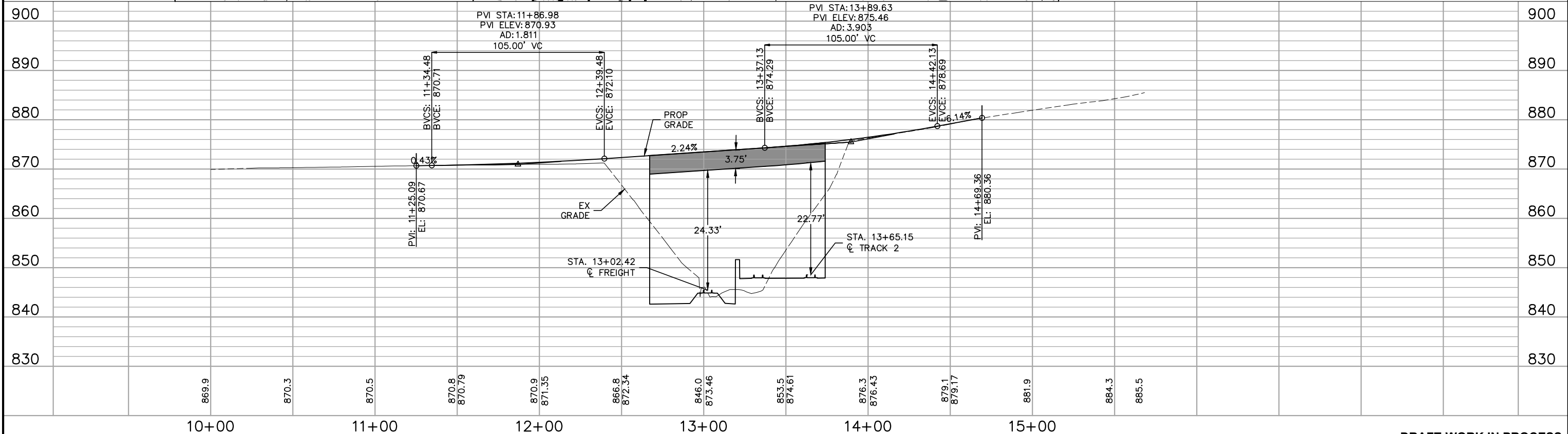
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STA 20+00 TO STA 21+50

DISCIPLINE: CIVIL

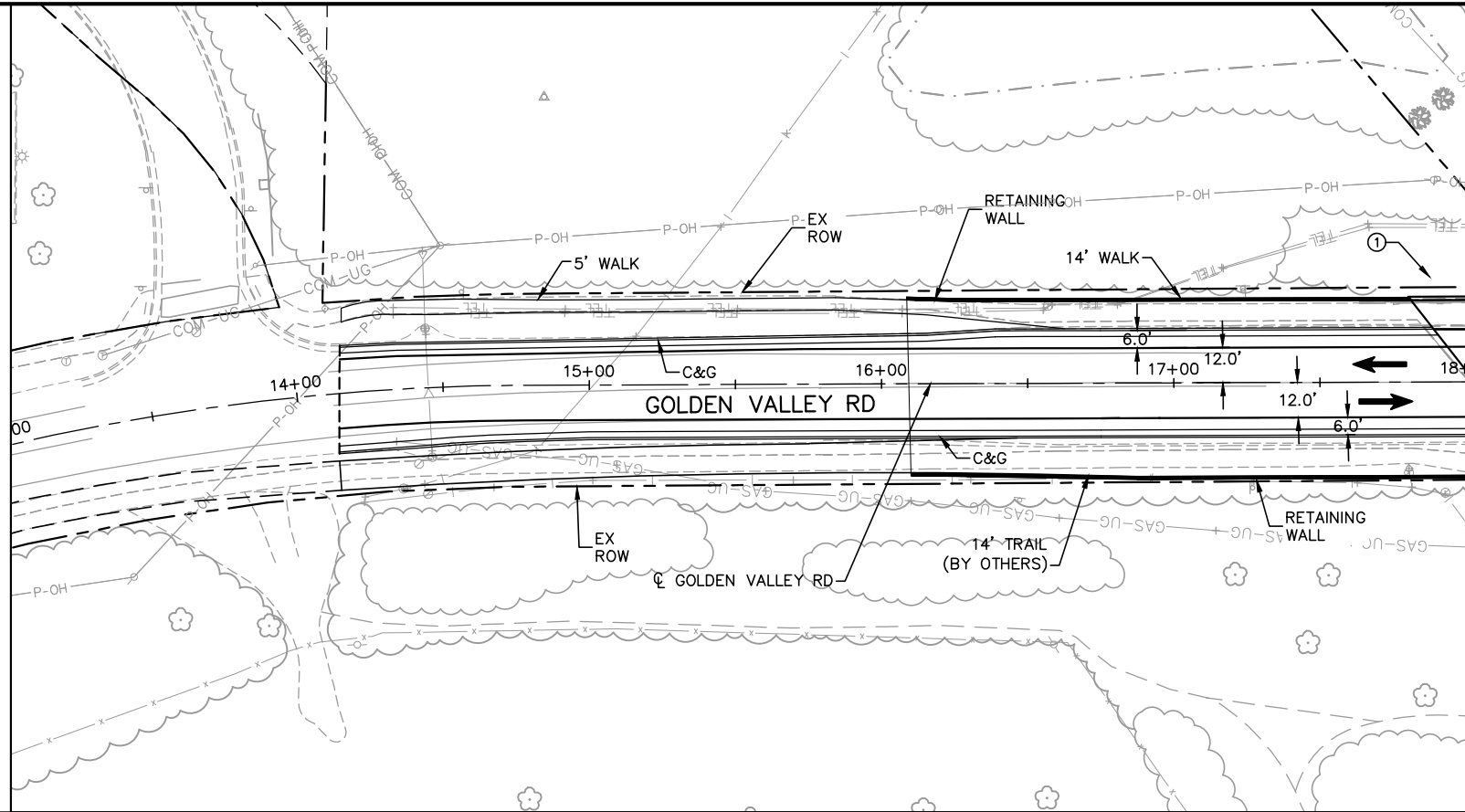
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SHEET
70
OF
79

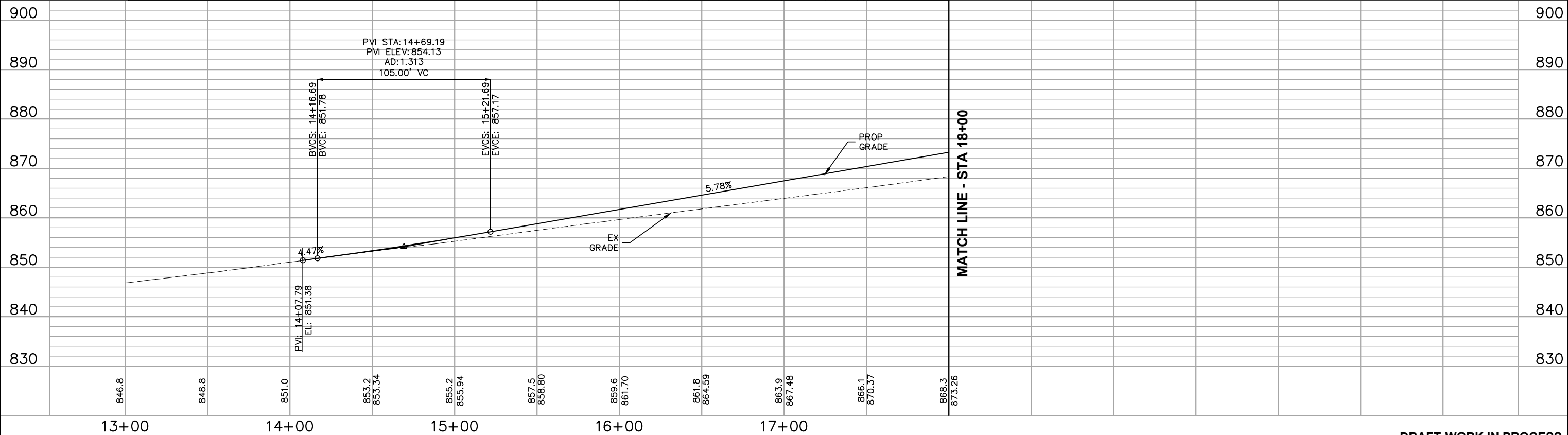
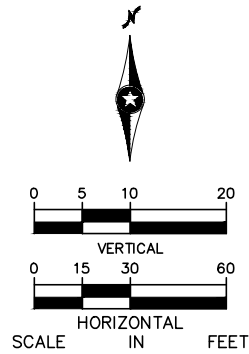
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NOTES:
① TRAIL CONNECTION DESIGN UNDER DEVELOPMENT AND WILL BE APPROVED IN CONJUNCTION WITH THE MINNEAPOLIS PARKS AND RECREATION BOARD AND THREE RIVERS PARK DISTRICT

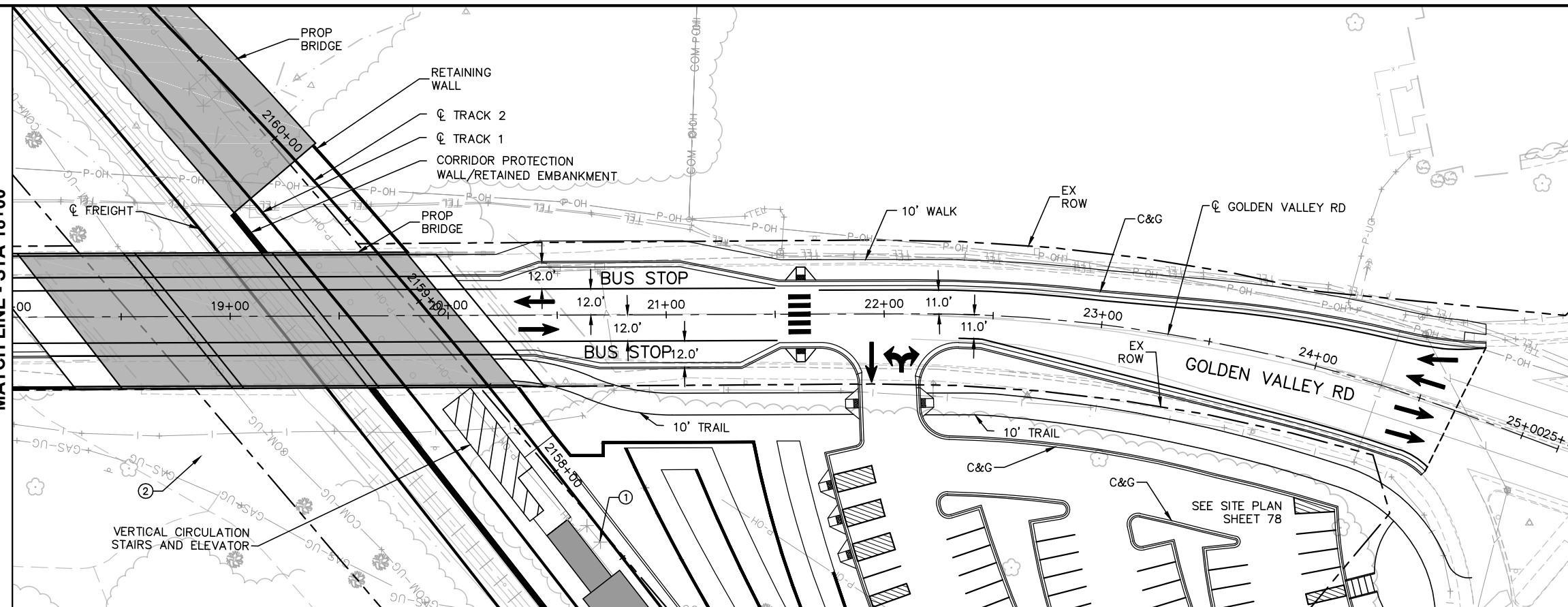


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DATE																72	
BY																OF	
CHECK																79	
DESIGN																	
REVISION / SUBMITTAL																	

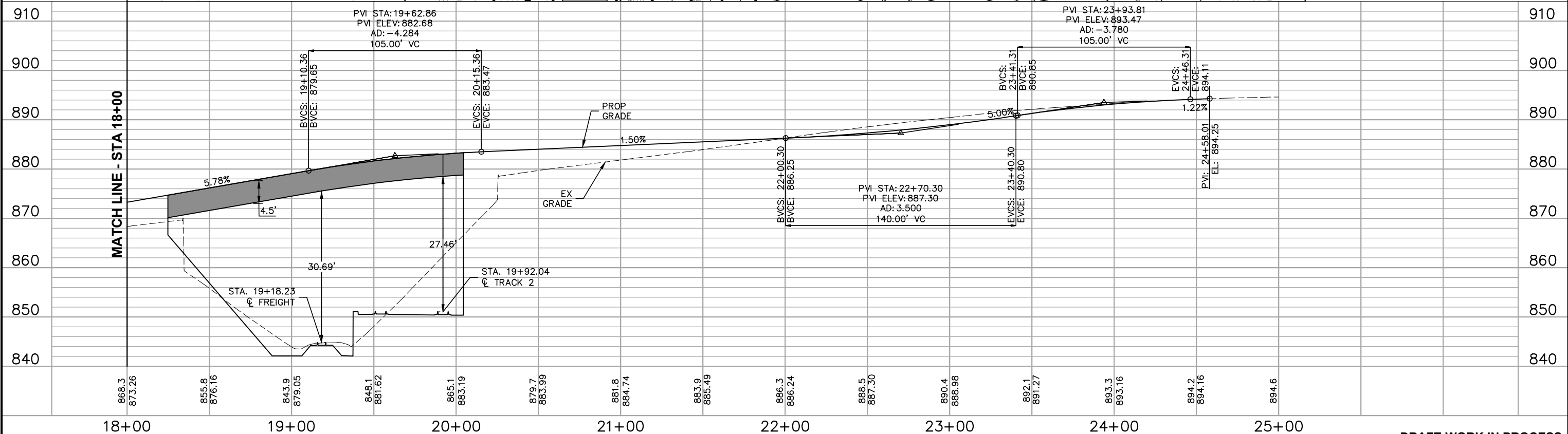
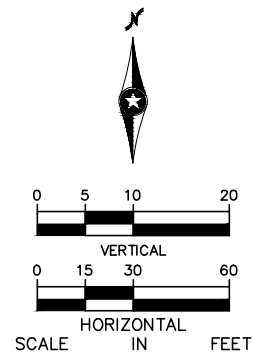
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MATCH LINE - STA 18+00

MATCH LINE - STA 18+00



- NOTES:
- XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW. SEE TRACK TYPICAL SECTIONS.
 - TRAIL CONNECTION DESIGN UNDER DEVELOPMENT AND WILL BE APPROVED IN CONJUNCTION WITH THE MINNEAPOLIS PARKS AND RECREATION BOARD AND THREE RIVERS PARK DISTRICT



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

MUNICIPAL CONSENT

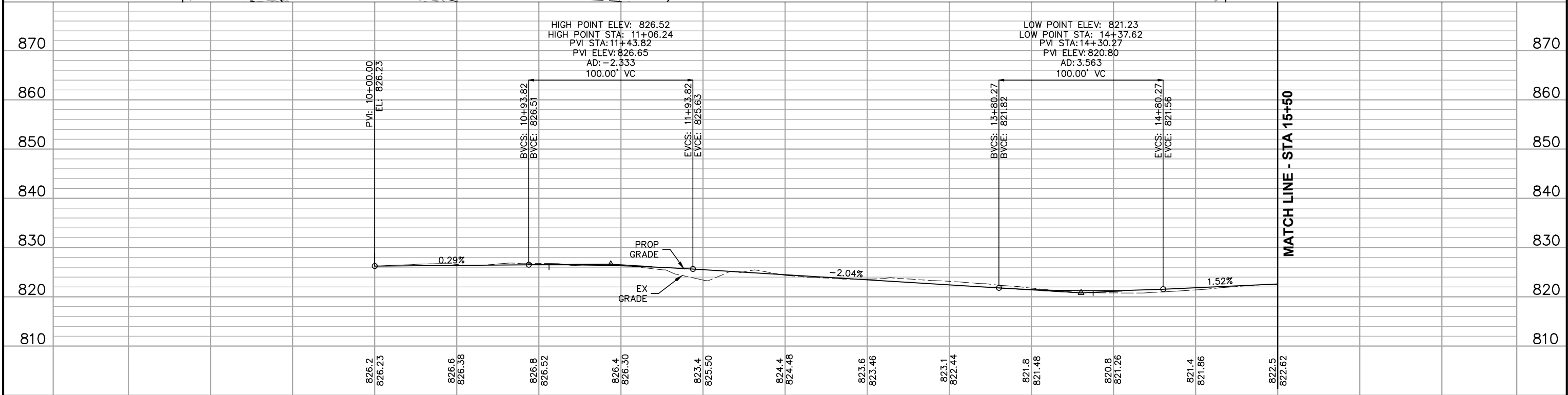


SEGMENT GV
GOLDEN VALLEY RD
PLAN AND PROFILE
STA 18+00 TO STA 25+00

DISCIPLINE:
CIVIL

SHEET NAME:
GV-CIV-PPFL-005

SHEET
73
OF
79

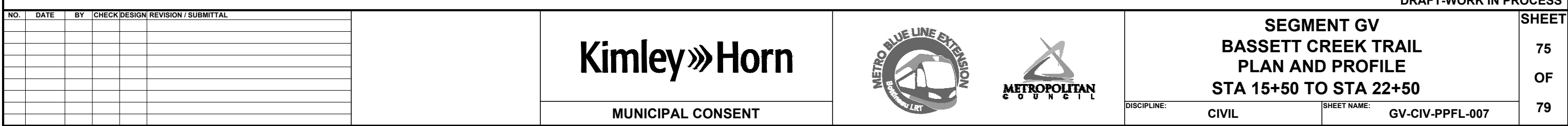
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METROPOLITAN
COUNCIL

DISCIPLINE:	CIVIL
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SHEET NAME:	GV-CIV-PPFL-006
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SHEET
74
OF
79





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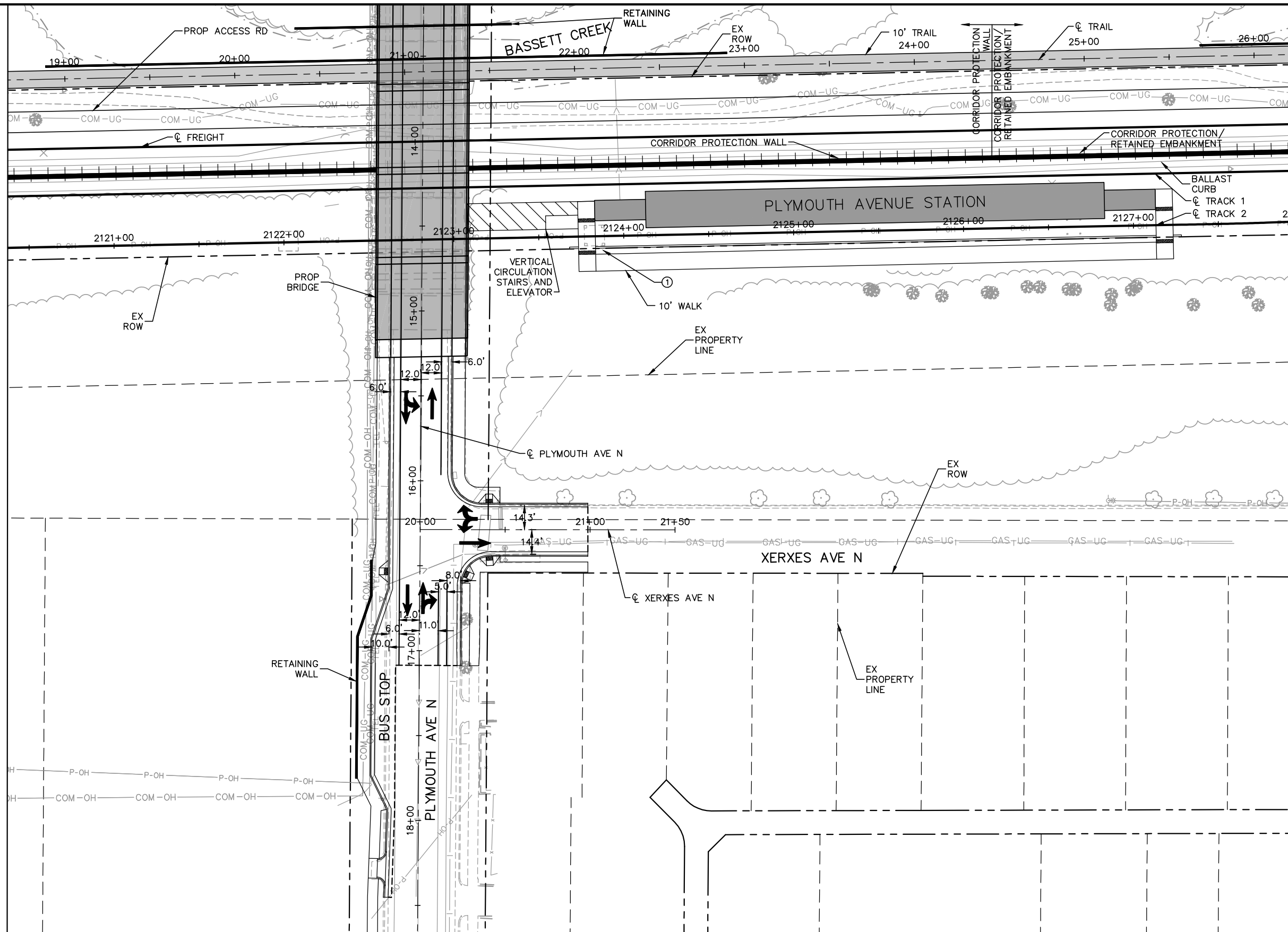
MUNICIPAL CONSENT



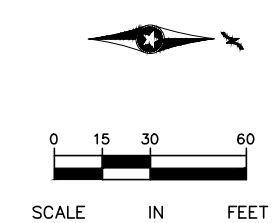
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OF
79

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



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

MUNICIPAL CONSENT

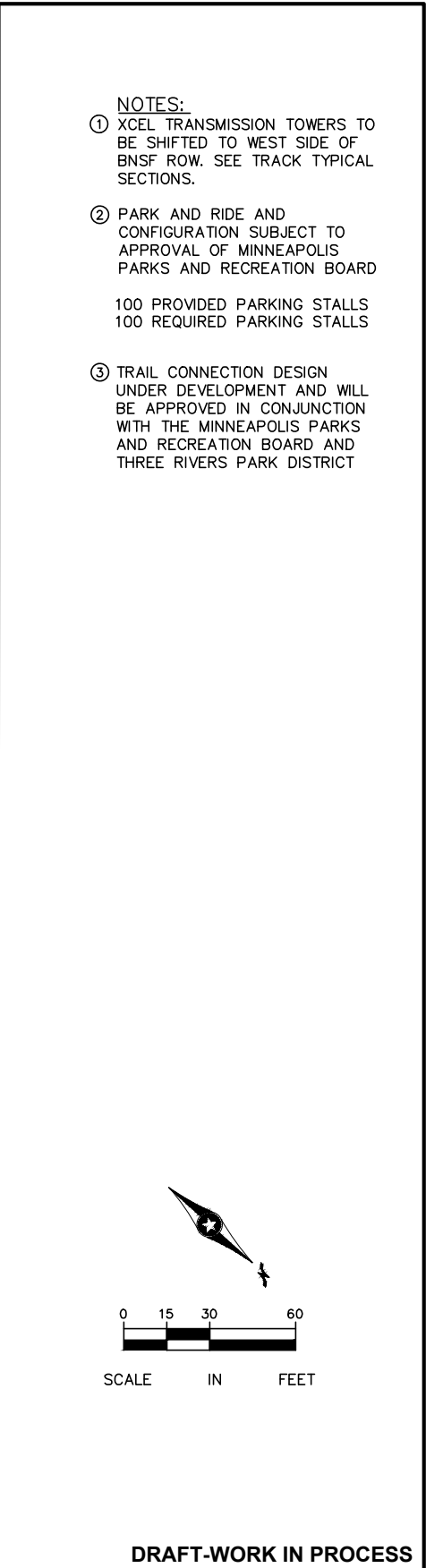


SEGMENT GV
PLYMOUTH AVENUE STATION
SITE PLAN

DISCIPLINE: CIVIL

SHEET NAME: GV-CIV-PLN-001

SHEET
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OF
79



SEGMENT GV GOLDEN VALLEY ROAD STATION SITE PLAN

DISCIPLINE: **CIVIL**

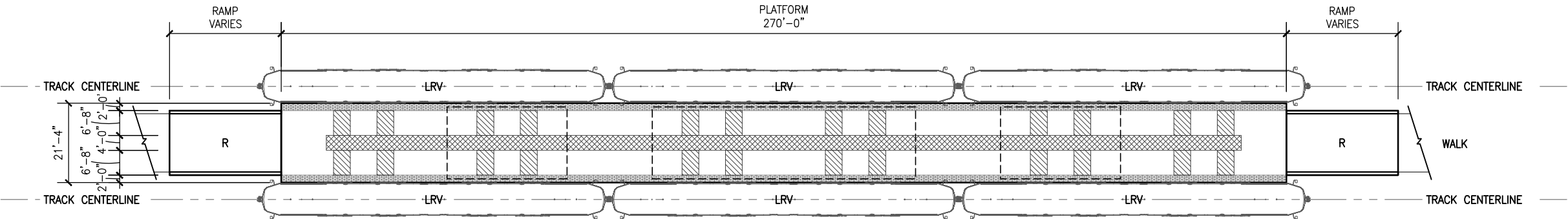
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STATION PLATFORM
ELEMENTS:

- R

APPROACH RAMP
• 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

millerdunwiddie

ARCHITECTURE

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION

BOULEVARD LRT

METROPOLITAN

COUNCIL

SEGMENT GV

TYPICAL CENTER PLATFORM PLAN

DISCIPLINE: ARCHITECTURE

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

SHEET
79
OF
79