

VICINITY MAP
N.T.S.

Site Coordinates (Lat/Long): 39.0808, -104.7858
Address: 1980 E Higby Road, Monument, CO
Parcel # 6121003005

LEGAL DESCRIPTION

A PARCEL OF LAND LOCATED WITHIN THE NORTHWEST QUARTER OF SECTION 21, TOWNSHIP 11 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE CENTER CORNER OF SAID SECTION 21, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 21 BEARS NORTH 01°31'31" WEST, A DISTANCE OF 2649.12 FEET, WITH ALL BEARINGS CONTAINED HEREIN BEING RELATIVE THERETO;

THENCE ALONG THE EAST LINE OF THE NORTHWEST QUARTER OF SAID SECTION 21, NORTH 01°31'31" WEST, A DISTANCE OF 466.67 FEET TO THE NORTHEAST CORNER OF THAT TRACT DESCRIBED IN BOOK 1982 AT PAGE 55 IN THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER'S OFFICE AND THE POINT OF BEGINNING;

THENCE ALONG THE NORTHERLY AND WESTERLY BOUNDARY OF SAID TRACT THE FOLLOWING TWO (2) COURSES:

1. SOUTH 88°46'41" WEST, A DISTANCE OF 466.67 FEET;
2. SOUTH 01°31'31" EAST, A DISTANCE OF 426.67 FEET TO THE NORTHERLY RIGHT-OF-WAY OF HIGBY ROAD AS DESCRIBED IN QUIT CLAIM DEED RECORDED UNDER RECEPTION NO. 213109156, IN SAID RECORDS;

THENCE ALONG SAID NORTHERLY RIGHT-OF-WAY, SOUTH 88°46'41" WEST, A DISTANCE OF 60.71 FEET;

THENCE DEPARTING SAID NORTHERLY RIGHT-OF-WAY, NORTH 01°31'31" WEST, A DISTANCE OF 1615.08 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH HALF OF THE SOUTH HALF OF THE NORTHEAST QUARTER OF SAID QUARTER;

THENCE ALONG SAID NORTH LINE, NORTH 88°42'39" EAST, A DISTANCE OF 527.38 FEET TO A POINT ON THE EAST LINE OF SAID NORTHWEST QUARTER;

THENCE ALONG SAID EAST LINE, SOUTH 01°31'31" EAST, A DISTANCE OF 1189.03 FEET TO THE POINT OF BEGINNING.

CONTAINING 14.986 ACRES, (652,806 S.F.) MORE OR LESS.

SUMMARY

OWNER: AUTHORIZED TECHNICAL REPRESENTATIVE:
KENT UTLEY, 303-254-3170, KUTLEY@TRISTATEGT.ORG

PROPERTY ADDRESS:
1980 E HIGBY ROAD, MONUMENT, CO 80132

LOT # 1
PARCEL # 6121003005
PARCEL SIZE: 652,806 SQ FT (14.99 ac)

EXISTING LAND USE: VACANT RESIDENTIAL LOTS
PROPOSED LAND USE: SPECIAL PURPOSE
ZONING: RR-5

PROPOSED GROSS BUILDING SIZE: 1200 SQ. FT.

SIGNAGE ON SUBSTATION PERIMETER FENCE:
HARD HAT SIGNS: INSIDE AND OUTSIDE EVERY GATE
WARNING SIGNS: EVERY 50FT AND 10FT OF EVERY CORNER
HIGH VOLTAGE SIGNS: EVERY 50FT AND 10FT OF EVERY CORNER

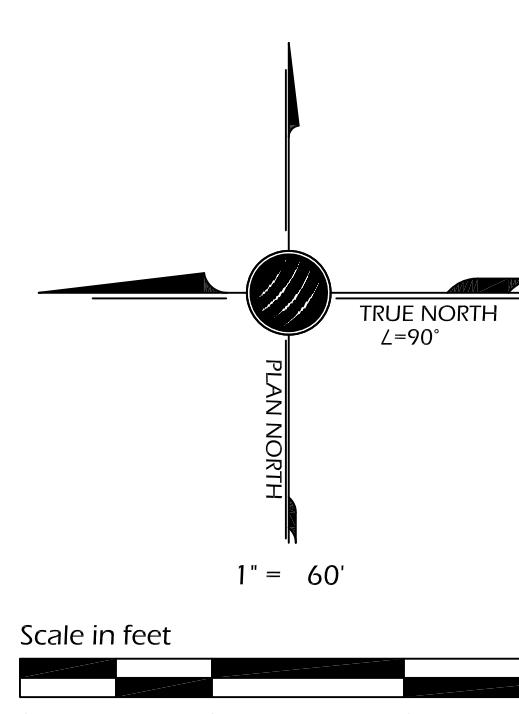
SIGNATURE BLOCK

PLANNING & COMMUNITY DEVELOPMENT DIRECTOR
EL PASO COUNTY, COLORADO

DATE

ATA NOTE

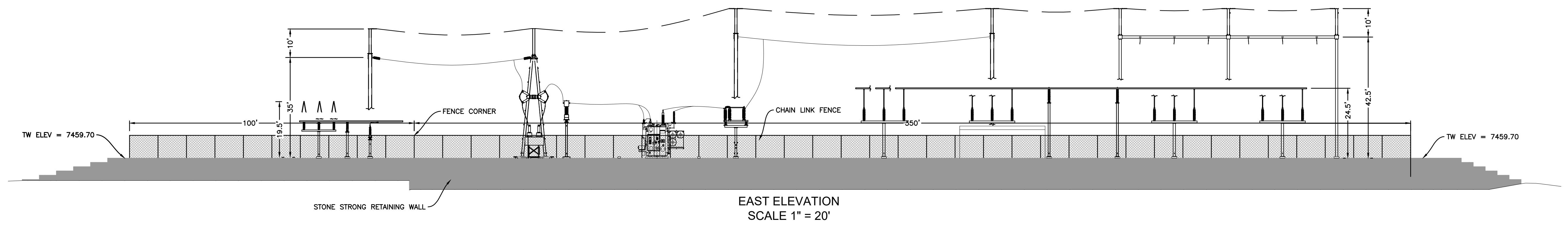
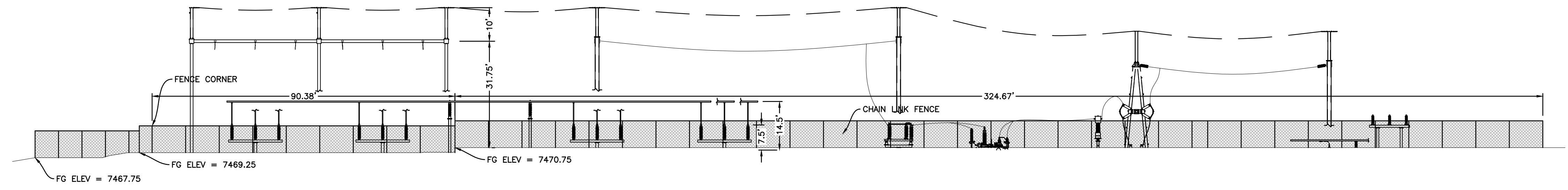
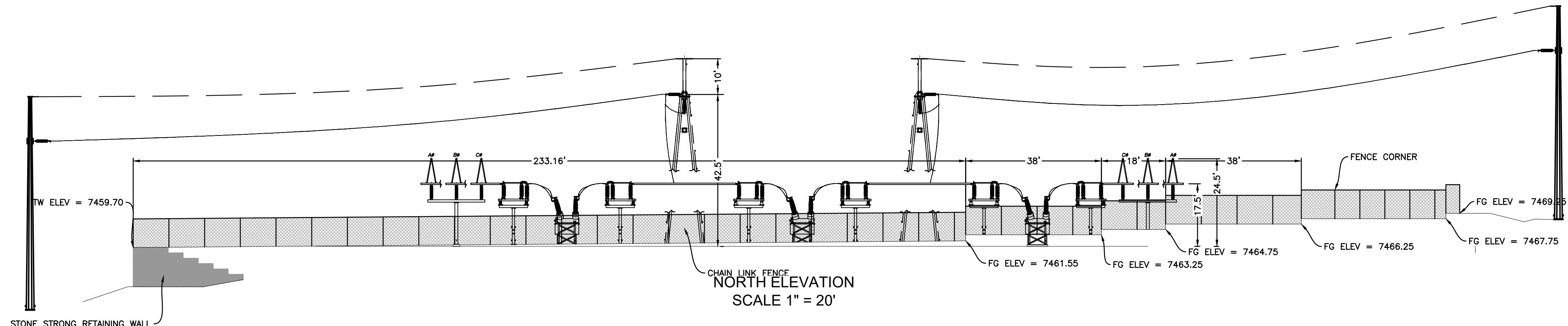
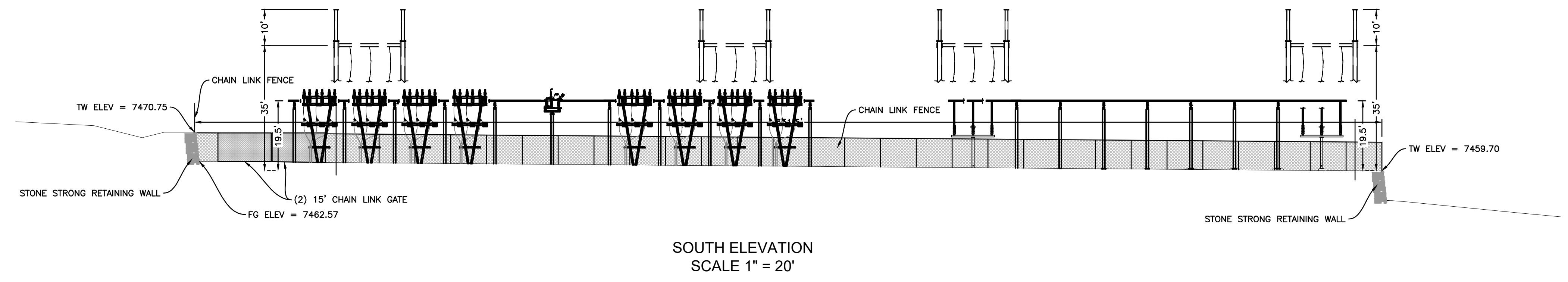
THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINE ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS



LEGEND

TRI-STATE	Generation and Transmission Association, Incorporated
1100 W. 116th Ave. P.O. Box 3395 Denver, Colorado 80233	1100 W. 116th Ave. P.O. Box 3395 Denver, Colorado 80233
Path: C:\Users\kent\OneDrive - Tri-State Generation and Transmission Association, Inc\kent\Projects\Fox Run Substation 90% Civil Drafts\Site Plan.dwg	Date: 12/16/21
Dwn: TMC	Date:
Appd:	Date:

SITE PLAN	
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*TRI-STATE GEN
ASSOCIATI*

TED BY: KENUTL

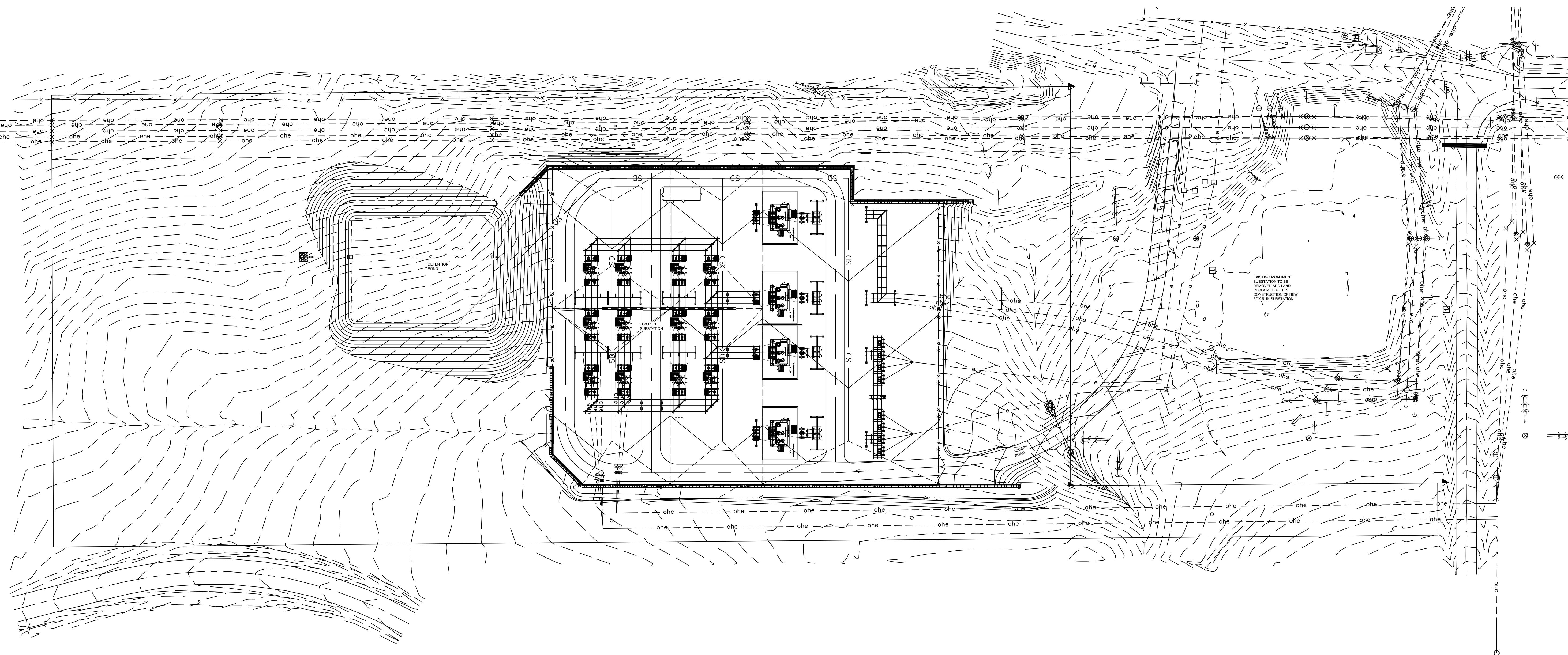
GENERATION & TRANSMISSION

1100 W. 116th Ave.
P.O. Box 33695
Dominican Calendar 800222

Date:
04/27/22

Date:

TIONS



GENERAL NOTES

THESE ARE CONSTRUCTION DOCUMENT LANDSCAPE PLANS FOR THE SITE
LANDSCAPING AT THE FOX RUN SUBSTATION LOCATED APPROXIMATELY AT
THE CORNER OF HIGBY RD AND ROLLER COASTER RD IN EL PASO
COUNTY, CO.

1. THE EXTENT OF THIS LANDSCAPE INSTALLATION INCLUDES:
 - SEEDING OF NATIVE GRASSES OF DISTURBED AREAS
 - SEEDING OF RECLAIMED MONUMENT SUBSTATION
 2. THE EXISTING LANDSCAPE, WITHIN THE NEW WORK AREA IS MOSTLY FIELD GRASS WITH SCATTERED TREES.
 3. AFTER FINAL STABILIZATION OF THE SEADED AREA, MAINTENANCE SHALL BE MINIMAL AND MIGHT REQUIRE MOWING AS NEEDED.
 4. EXISTING UTILITIES – UNDERGROUND AND OTHERWISE EXIST ALONG THE CORRIDOR AND PROJECT AREA. ALL CONTRACTORS SHALL PROTECT IN PLACE ALL EXISTING UTILITIES DURING CONSTRUCTION. EXISTING UTILITIES NOTED ON THESE DRAWINGS ARE FOR REFERENCE ONLY AND MAY NOT ILLUSTRATE ALL UTILITIES THAT EXIST. ADDITIONAL COMMUNICATION CABLE SUCH AS TELEPHONE AND CABLE TV MAY EXIST ON OR NEAR THIS PROPERTY. LANDSCAPE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY OWNER OF ANY POTENTIAL CONFLICTS WITH PROPOSED CONSTRUCTION. ALL RESPONSIBLE FOR DAMAGES RESULTING FROM HITTING EXISTING UTILITIES.
 5. ALL CONSTRUCTION IS TO ADHERE TO EL PASO COUNTY AND STATE OF COLORADO STANDARDS UNLESS OTHERWISE NOTED.
 6. SOIL PREPARATION FOR LANDSCAPE AREAS SHALL CONSIST OF DISKING AND DRAGGING DISTURBED AND COMPACTED AREAS ONLY. DRILL SEEDING OF ENTIRE NATIVE SEED AREA, MULCHING WITH WEED FREE STRAW MULCH AND CRIMPING. INSTALL PLANTERS MIX TOPSOIL AROUND ALL TREES PER DETAILS.
 7. YARD LIGHTING WILL ONLY BE LIT DURING EMERGENCIES.

LANDSCAPE TABULATIONS

ITEM	%	QTY	UNIT
6' TALL CHAINLINK PERIMETER FENCE		1621	LF
GRAVEL SUBSTATION YARD/DRIVEWAY	27	176,346	SF
NATIVE SEED REVEGETATION	15	100,188	SF
UNDISTURBED	58	376,272	SF
TOTAL SITE AREA =	100	652,806	SF

SEEDING SPECIFICATION

QTY	UNIT	NAME	RATE	MIX
200	LBS	LOW GROW MIX	25 LBS/ ACRES	30% EPHRALM CRESTED WHEATGRASS 25% SHEEP FESCUE 20% PERENNIAL RYE. 15% CHEWINGS FESCUE 10% CANADA BLUEGRASS

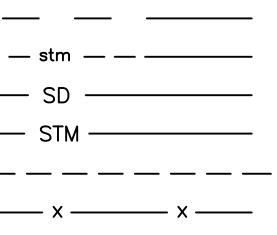
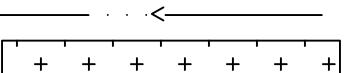
LANDSCAPE VARIANCE

THE NEW SUBSTATION AND ELECTRICAL UTILITIES BEING CONSTRUCTED WILL NOT BE MANNED FACILITIES. AS SUCH NO WATER SOURCES ARE REQUIRED NOR PLANNED FOR AT THIS SITE. IN EFFORT TO CONSERVE COLORADO WATER RESOURCES, TRI-STATE G&T REQUEST A VARIANCE TO EL PASO COUNTIES TREE LANDSCAPING REQUIREMENTS.

LEGEND

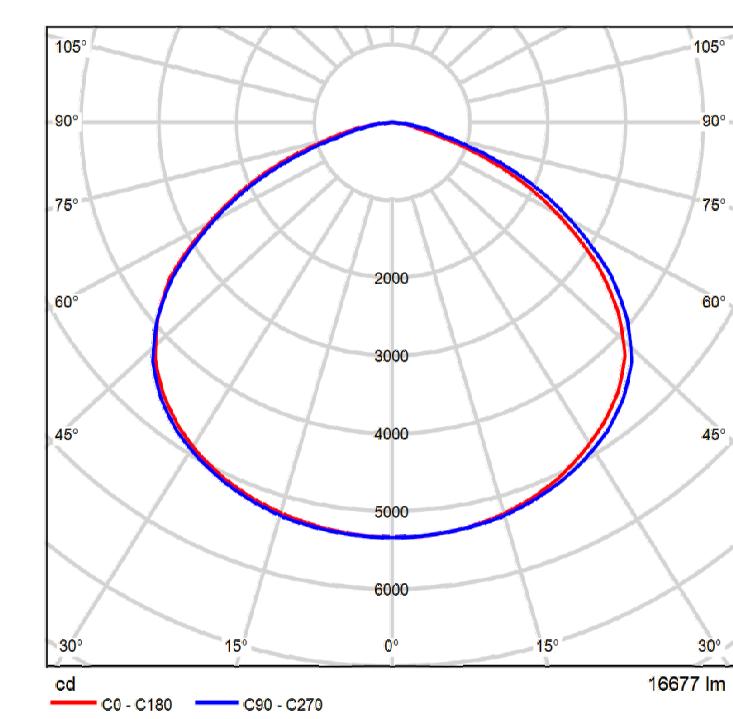


TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED		
ESTED BY: KENUTL	11/1/2022 10:30 AM	Contract: . and Transmission Association, Inc \kenutl\Projects\Fox Run Substation\90% Civil D

 	EXISTING PROPERTY FENCE EXISTING UNDERGROUND POWER EXISTING COUNTY ROAD R.O.W. EXISTING CULVERT PROPOSED SUBDRAIN PROPOSED CULVERT PROPOSED GRADE BRAKE LINE PROPOSED SUBSTATION FENCE PROPOSED DRAINAGE FLOWLINE NEW NATIVE SEEDING	 A Touchstone Energy® General / P.O. Box Denver, Colorado 303-451-1100 W. 1
	<p>Dwn: Date: TMC 12/16/21</p> <p>Appd: Date: KGU 10/31/22</p>	
LANDSCAPE PLAN		

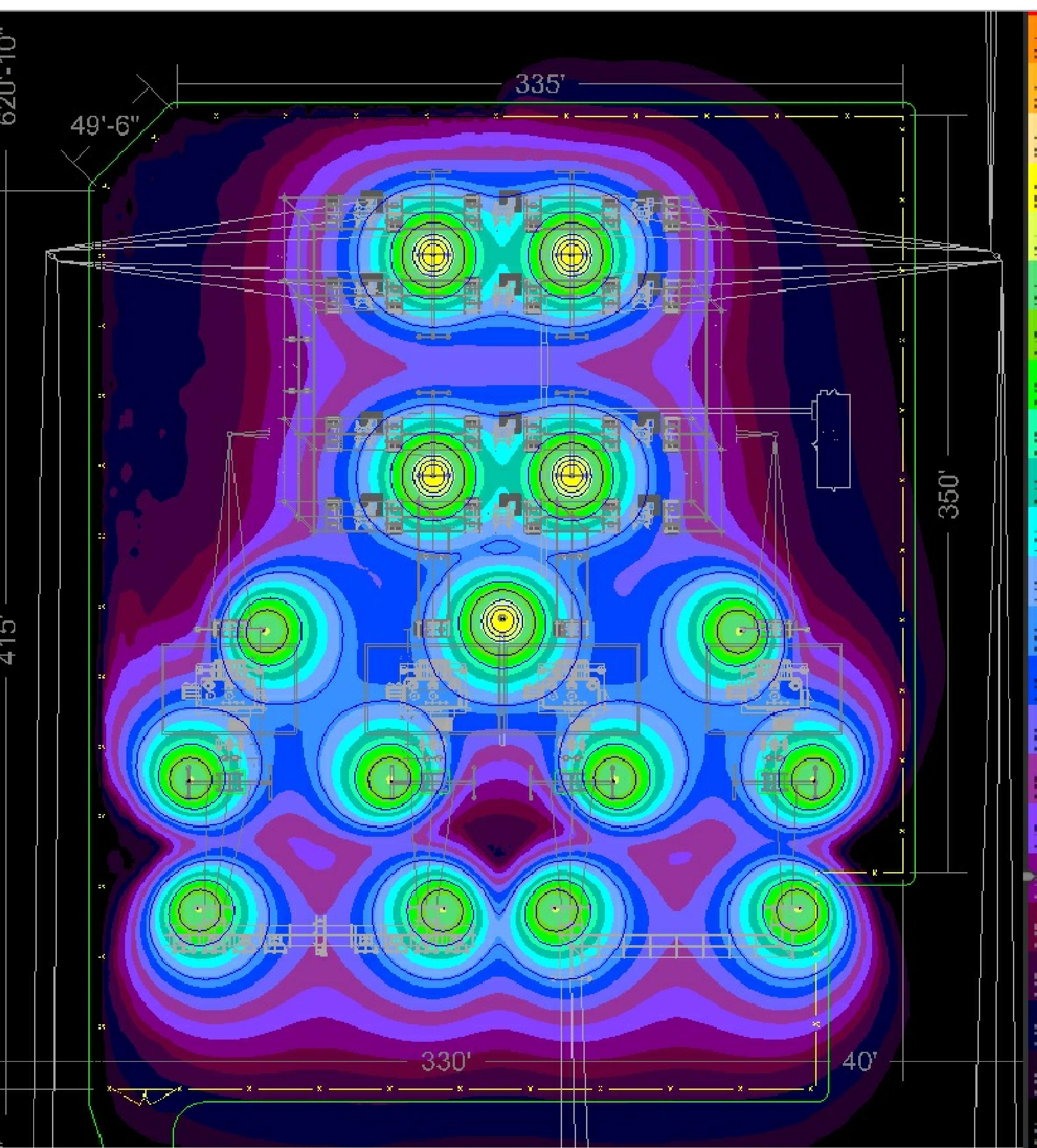
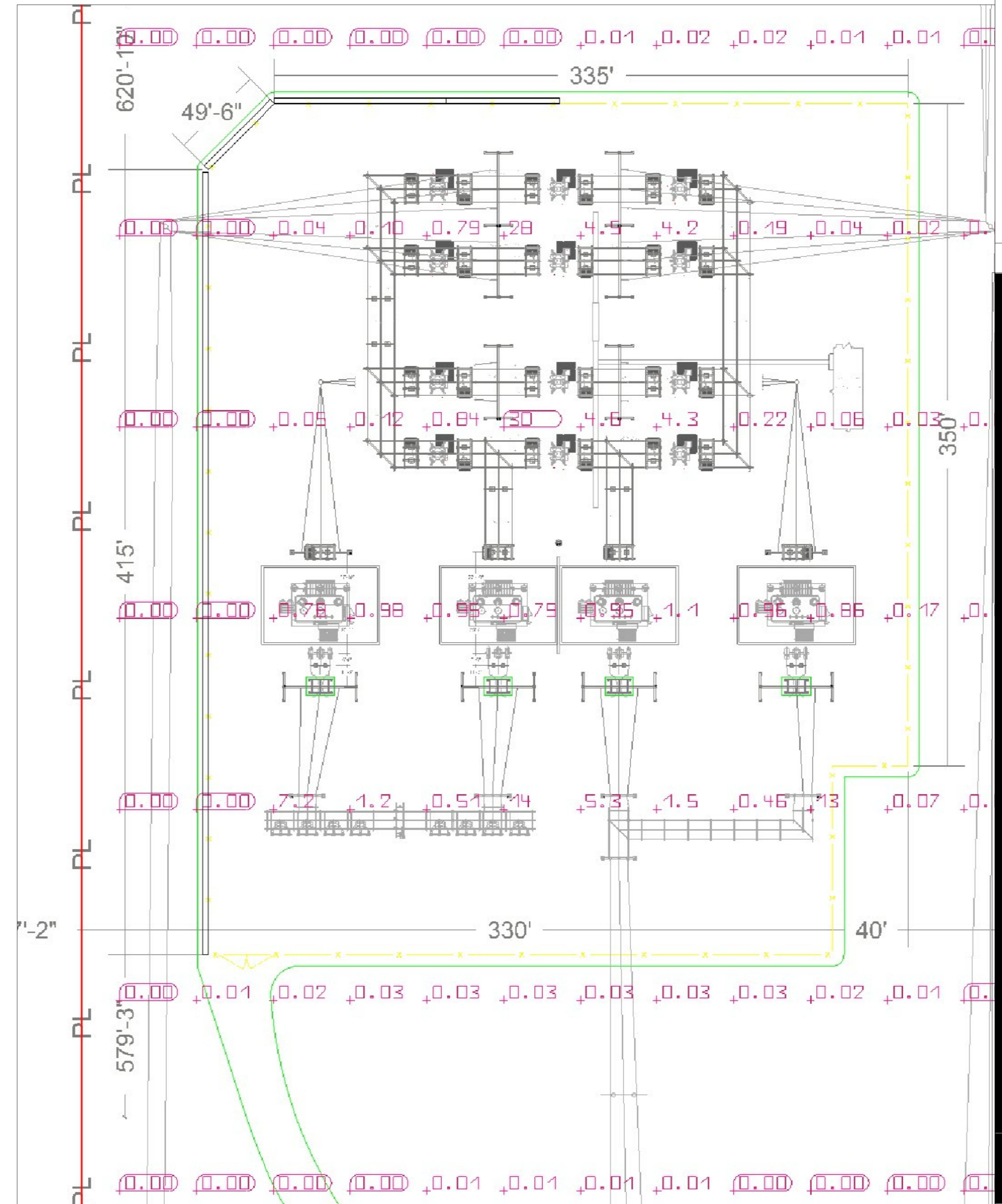
Luminaire list			
		Φ_{total} 333540 lm	P_{total} 3040.0 W
		Luminous efficacy 109.7 lm/W	
pcs.	Manufacturer	Article No.	Article name
20	Appleton	I/ AMLGL8W	AREAMASTER LED 19500 LUMENS NEMA 7X7 CLEAR GLASS
		P	Φ
		152.0 W	16677 lm
		Luminous efficacy	109.7 lm/W

Article No.	I/AMGL8WG6
P	152.0 W
$\Phi_{luminaire}$	16677 lm
Luminous efficacy	109.7 lm/W
CCT	3114 K
CRI	83



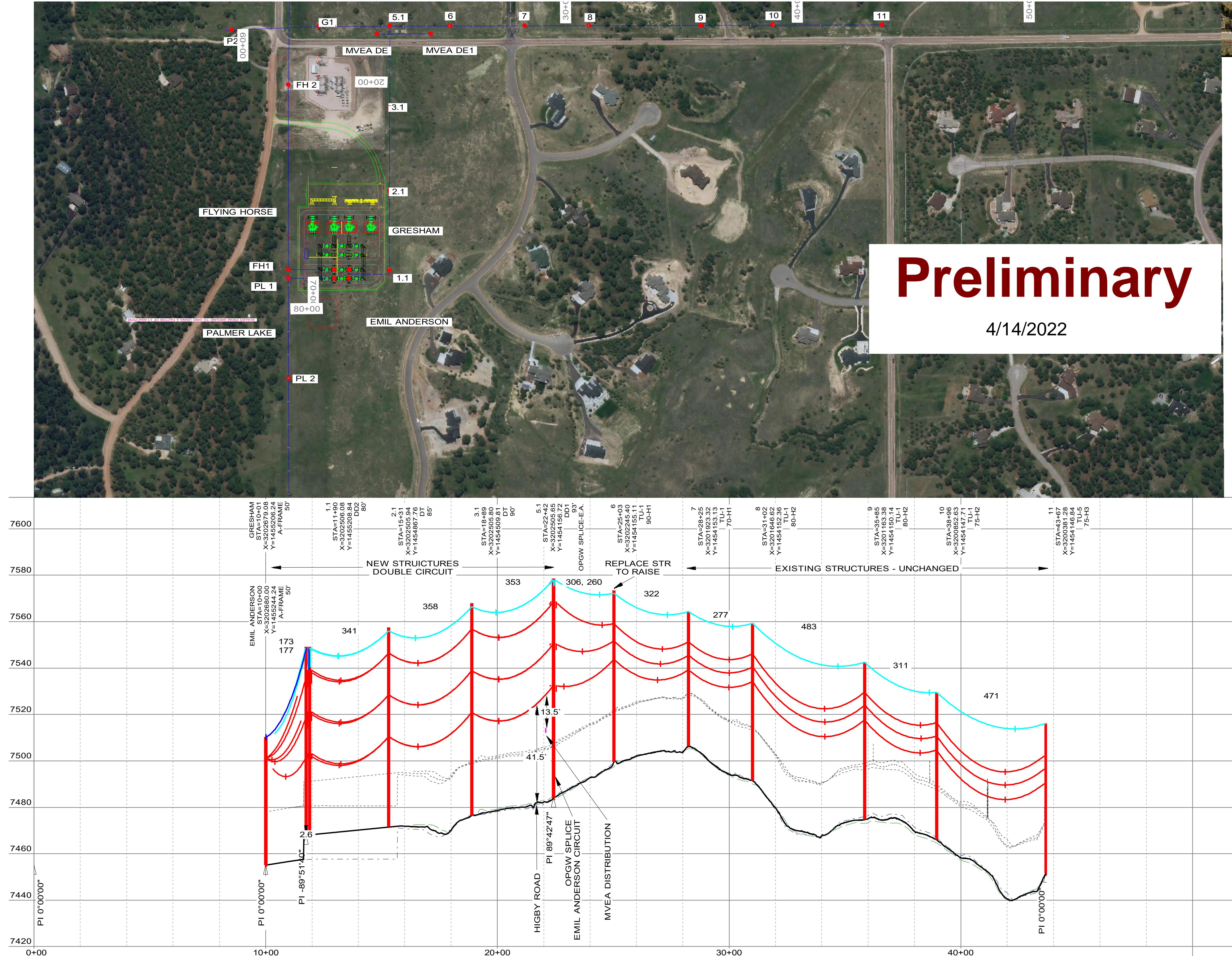
NOTES:

- THE TILT ANGLE OF THE LIGHTS SHALL BE AT 20-DEGREE ABOVE HORIZON PLANE ANGLED TOWARDS THE GROUND SURFACE.
- LIGHTS SHALL BE MOUNTED 15-FEET ABOVE GRADE.
- CALCULATIONS SHOWN ARE MAINTAINED HORIZONTAL FOOTCANDLES TAKEN AS SHOWN IN CALCULATIONS SUMMARY.
- FIXTURE ORIENTATION IS SUCH THAT 0 IS TO THE RIGHT OF DRAWING AND 90 IS TO THE TOP OF THE DRAWING.
- LUMINARY LUMENS EQUAL LUMENS LEAVING LUMINARY WITH EFFICIENCY CONSIDERED.



M.F.	Drawing Title	Reference Drawings	Drawing No.	Mfr.			
				Revision	Date	Dim.	
7	FOX RUN SUBSTATION		0455	TRI-STATE		4/2/2022	03:38 AM
6	115/69/12.4KV LIGHTING PLAN			TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED			
5				1100 W. 16th Ave. P.O. Box 3395 Denver, Colorado 80233 303-452-6111			
4				A Touchstone Energy Cooperative			
3				UPDATED BY: KGU			
2				DATE: 01-13-22			
1				APPD: KGU			
				DATE: 04-05-22			
Light Plan							

NOTE: NO Projected Fox Run Substation Light Patterns



EMIL ANDERSON - 1.1, AFL OPGW DNO-7054 CC-37/47/547, RULING SPAN 179 (FT), TENSION 150 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED 120 DEG F INITIAL 146 (LBS)
 EMIL ANDERSON - 1.1, 477 KCMIL 26/7 STRANDS HAWK ACSR, RULING SPAN 183 (FT), TENSION 350 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED MAXIMUM OPERATING TEMP (212°F) INITIAL 318 (LBS)
 GRESHAM - 1.1, 3/8 INCH HS 7 STRANDS STEEL, RULING SPAN 172 (FT), TENSION 150 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED 120 DEG F CREEP 144 (LBS)
 GRESHAM - 1.1, 477 KCMIL 26/7 STRANDS HAWK ACSR, RULING SPAN 163 (FT), TENSION 350 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED MAXIMUM OPERATING TEMP (212°F) MAX SAG 311 (LBS)
 1.1 - 5.1, AFL OPGW DNO-7054 CC-37/47/547, RULING SPAN 352 (FT), TENSION 1000 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED 120 DEG F CREEP 757 (LBS)
 1.1 - 5.1, 477 KCMIL 26/7 STRANDS HAWK ACSR, RULING SPAN 388 (FT), TENSION 2200 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED 212 DEG F MAX SAG 1183 (LBS)
 5.1 - 11, AFL OPGW DNO-7054 CC-37/47/547, RULING SPAN 388 (FT), TENSION 1930 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED 120 DEG F CREEP FE
 5.1 - G1, 3/8 INCH EHS 7 STRANDS STEEL, RULING SPAN 308 (FT), TENSION 975 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED 120 DEG F CREEP 721 (LBS)
 5.1 - G1, AFL OPGW DNO-7054 CC-37/47/547, RULING SPAN 295 (FT), TENSION 975 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED 120 DEG F CREEP 695 (LBS)
 5.1 - 11, 477 KCMIL 26/7 STRANDS HAWK ACSR, RULING SPAN 387 (FT), TENSION 2505 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED MAXIMUM OPERATING TEMP (212°F) MAX SAG FE
 5.1 - G1, 477 KCMIL 26/7 STRANDS HAWK ACSR, RULING SPAN 295 (FT), TENSION 2086 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED MAXIMUM OPERATING TEMP (212°F) CREEP 1050 (LBS)

NOTES:
 CLEANLINESS LINE SHOWN AT 23.0'
 COORDINATES IN CO CENTRAL NAD83
 COORDINATES IN US-SURVEY FOOT.

200.0 FT. HORIZ. SCALE

DWN: JTL DATE: 3/24/22

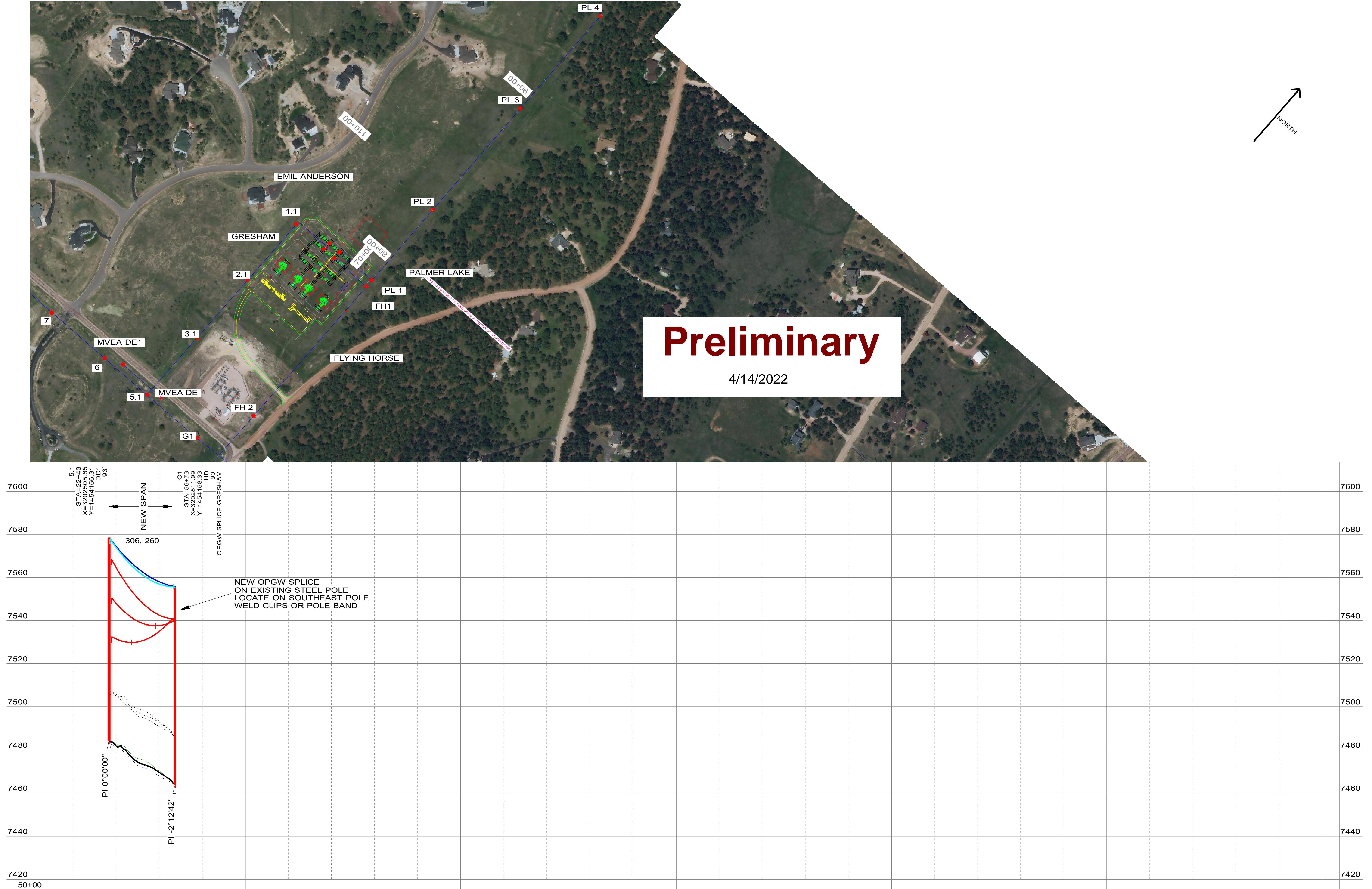
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FOX RUN - FOX RUN TAP
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TRI-STATE GENERATION & TRANSMISSION
ASSOCIATION, INCORPORATED

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5.1 - G1, 3/8 INCH EHS 7 STRANDS STEEL, RULING SPAN 308 (FT), TENSION 975 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED 120 DEG F CREEP 721 (LBS)
5.1 - G1, AFL OPGW DNO-7054 CC-37/47/547, RULING SPAN 295 (FT), TENSION 975 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED 120 DEG F CREEP 695 (LBS)
5.1 - G1, 477 KCMIL 26/7 STRANDS HAWK ACSR, RULING SPAN 295 (FT), TENSION 2086 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED MAXIMUM OPERATING TEMP (212°F) CREEP 1050 (LBS)
G1 - P2, 3/8 INCH HS 7 STRANDS STEEL, RULING SPAN 368 (FT), TENSION 1057 (LBS) AT 60 (DEG F) CREEP, DISPLAYED 120 DEG F CREEP 811 (LBS)
G1 - P2, AFL OPGW 8 FIBER ALUMACORE AC-53/449, RULING SPAN 380 (FT), TENSION 1189 (LBS) AT 60 (DEG F) CREEP, DISPLAYED 120 DEG F CREEP 849 (LBS)
G1 - P2, 477 KCMIL 26/7 STRANDS HAWK ACSR, RULING SPAN 374 (FT), TENSION 2234 (LBS) AT 60 (DEG F) CREEP, DISPLAYED MAXIMUM OPERATING TEMP (212°F) CREEP 1336 (LBS)

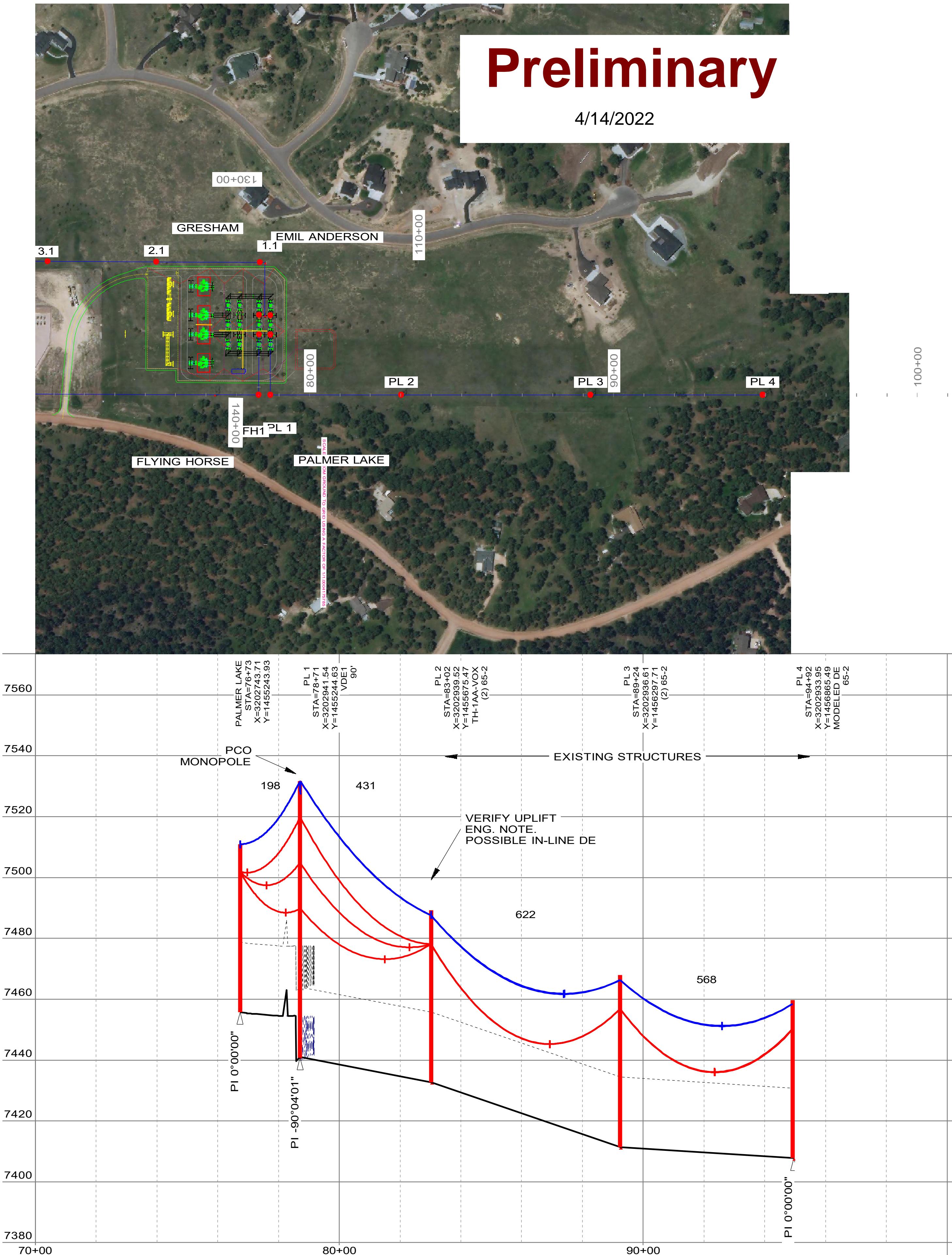
NOTES:
CLEANRANCE LINE SHOWN AT 23.0'
COORDINATES IN CO CENTRAL NAD83
COORDINATES IN US-SURVEY FOOT.

A scale bar diagram consisting of two parts. The top part shows a horizontal line segment with tick marks at both ends. The text "200.0 FT." is written above the line, and "HORIZ. SCALE" is written below it. The bottom part shows a vertical line segment with tick marks at both ends. The text "20.0 FT." is written to the left of the line, and "VERT. SCALE" is written below it.

2301-G-01-002

Preliminary

4/14/2022



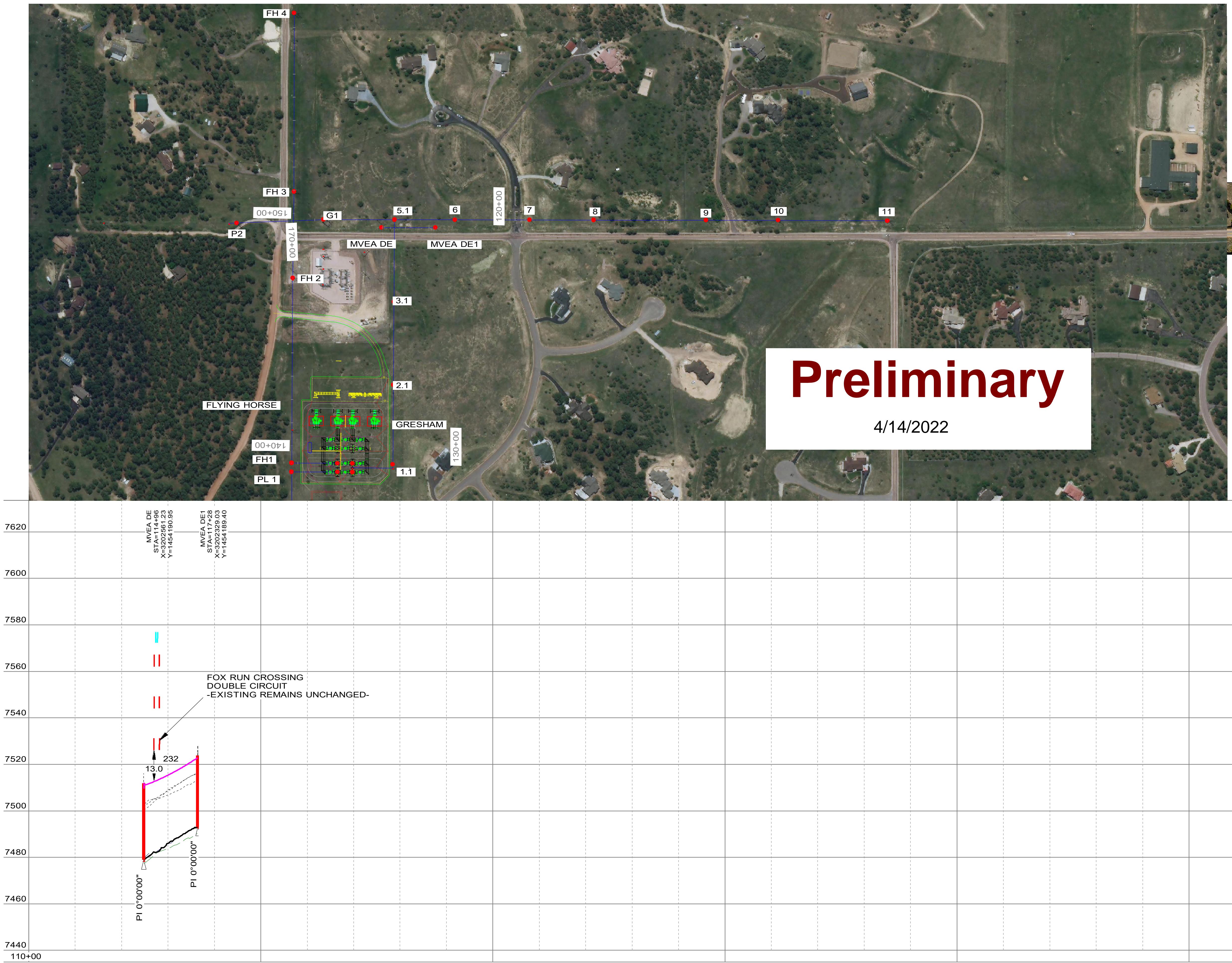
PALMER LAKE - PL 1, 3/8 INCH HS 7 STRANDS STEEL, RULING SPAN 197 (FT), TENSION 300 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED 120 DEG F MAX SAG 256 (LBS)
PALMER LAKE - PL 1, 477 KCMIL 26/7 STRANDS HAWK ACSR, RULING SPAN 196 (FT), TENSION 750 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED MAXIMUM OPERATING TEMP (212°F) MAX SAG 547 (LBS)
PL 1 - PL 4, 1/2 INCH EHS 7 STRANDS STEEL, RULING SPAN 557 (FT), TENSION 2319 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED 120 DEG F CREEP 1934 (LBS)
PL 1 - PL 4, 1/2 INCH EHS 7 STRANDS STEEL, RULING SPAN 557 (FT), TENSION 2275 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED 120 DEG F CREEP 1904 (LBS)
PL 1 - PL 4, 477 KCMIL 26/7 STRANDS HAWK ACSR, RULING SPAN 557 (FT), TENSION 2253 (LBS) AT 60 (DEG F) INITIAL, DISPLAYED MAXIMUM OPERATING TEMP (212°F) CREEP 1525 (LBS)

NOTES:
CLEANRANCE LINE SHOWN AT 23.0'
COORDINATES IN CO CENTRAL NAD83
COORDINATES IN US-SURVEY FOOT.

200.0 FT. | HORIZ. SCALE
20.0 FT. | VERT. SCALE

T2301-G-01-003

PLS-CADD DRAWING	
<p>PLAN AND PROFILE WO: 50002438/50032556 TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED</p>	
UPDATED BY:	CONTRACT:
JTL	DATE: 3/24/22
	DATE:
<p>115 KV</p>	
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1	4/13/22 JTL
ISSUE PER CPN:0449 AND CPN:0458	
NO.	DATE
DWNG. NO.	APPD.
M.F.	REFERENCE DRAWINGS
DWG. NO.	MFGR.
DRAWING TITLE	



Preliminary

4/14/2022

This figure shows an aerial photograph of a transmission line corridor. A vertical grid of dashed lines is overlaid on the image, representing survey control points. Elevation values are labeled along the right side of the grid, ranging from 7440 to 7620 feet. A north arrow is located in the upper left quadrant of the grid area. The background features a mix of green vegetation and a paved road.

PLS-CADD DRAWING

FOX RUN - FOX RUN TAP

115 KV

PLAN AND PROFILE
WO: 50002438/50032556
TRI-STATE GENERATION & TRANSMISSION
ASSOCIATION, INCORPORATED

CONTRACT:

UPDATED BY:

DWN: DATE:
APPD: DATE:
JTL 3/24/22

NO. DATE DWN. APPD. M.F.

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23.0' NAD83 FOOT.

200.0 FT. HORIZ. SCALE

20.0 FT. VERT. SCALE

T2301-G-01-004

DWG. NO.	M.F.R.

M.F.

REVISION

ISSUE PER OPN 04040 AND CENUS

JTL

APPD

DWN

NO.

DATE

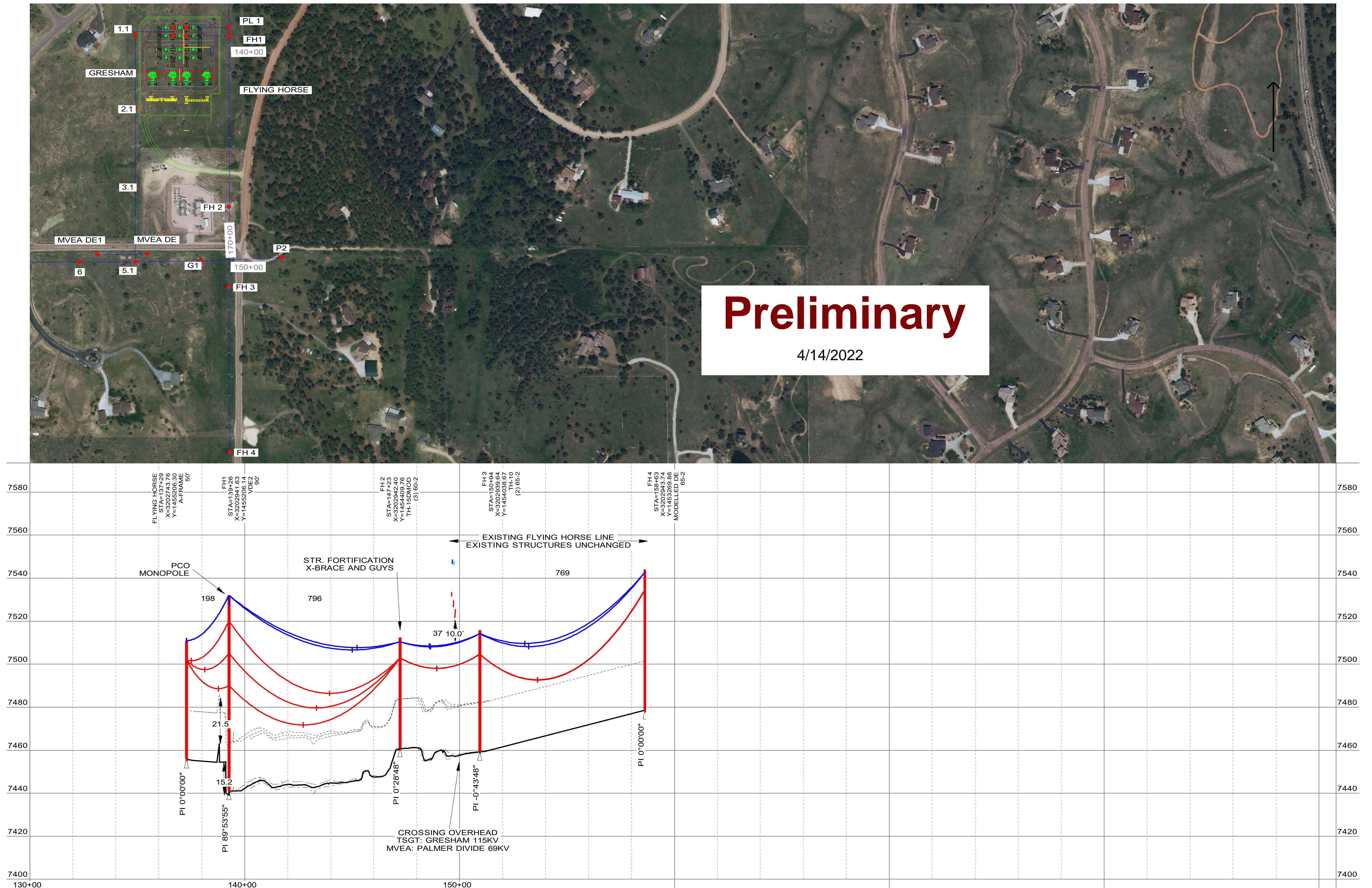
CONTRACT:

UPDATED BY:

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Preliminary

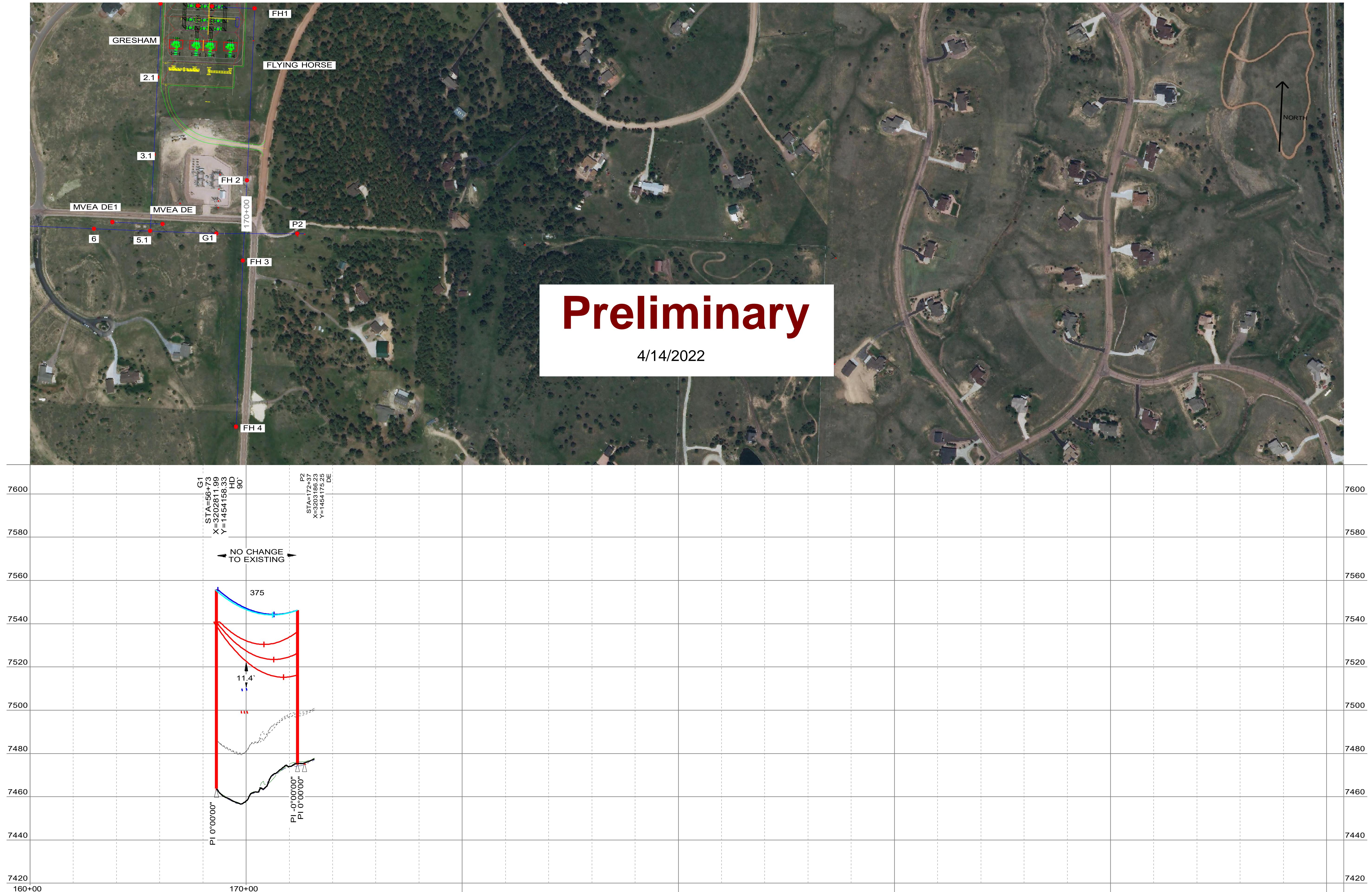
4/14/2022



FOX RUN - FOX RUN TAP
115 KV
PLAN AND PROFILE
WC: 5000243850032556
TRI-STATE GENERATION & TRANSMISSION
ASSOCIATION, INCORPORATED

Preliminary

4/14/2022



G1 - P2, 3/8 INCH HS 7 STRANDS STEEL, RULING SPAN 368 (FT), TENSION 1057 (LBS) AT 60 (DEG F) CREEP, DISPLAYED 120 DEG F CREEP 811 (LBS)
 G1 - P2, AFL OPGW 8 FIBER ALUMACORE AC-53/449, RULING SPAN 380 (FT), TENSION 1189 (LBS) AT 60 (DEG F) CREEP, DISPLAYED 120 DEG F CREEP 849 (LBS)
 G1 - P2, 477 KCMIL 26/7 STRANDS HAWK ACSR, RULING SPAN 374 (FT), TENSION 2234 (LBS) AT 60 (DEG F) CREEP, DISPLAYED MAXIMUM OPERATING TEMP (212°F) CREEP 1336 (LBS)

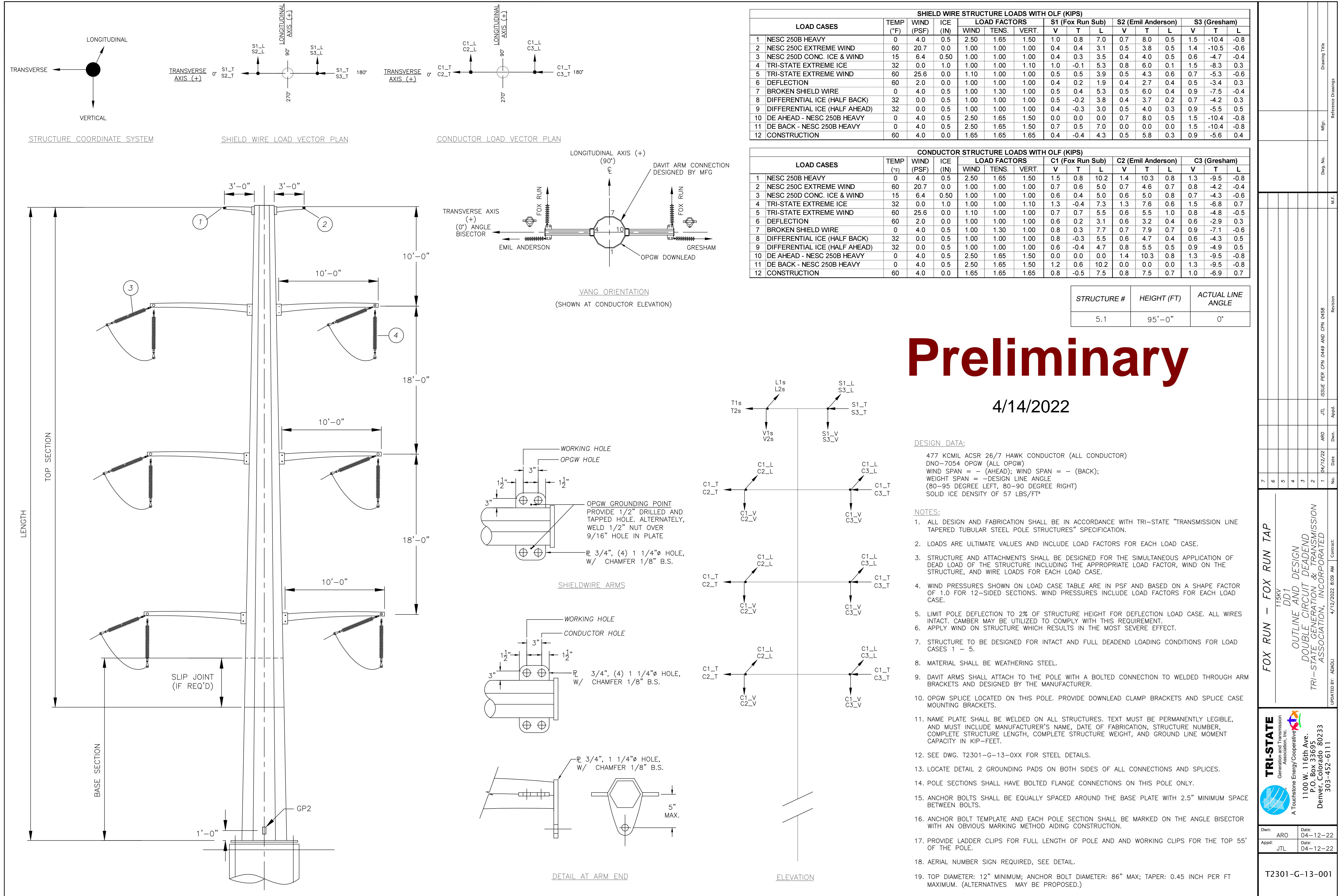
NOTES:
 CLEANLINESS LINE SHOWN AT 23.0'
 COORDINATES IN CO CENTRAL NAD83
 COORDINATES IN US-SURVEY FOOT.

200.0 FT. HORIZ. SCALE

DWN: JTL DATE: 3/24/22
 APPD: DATE:

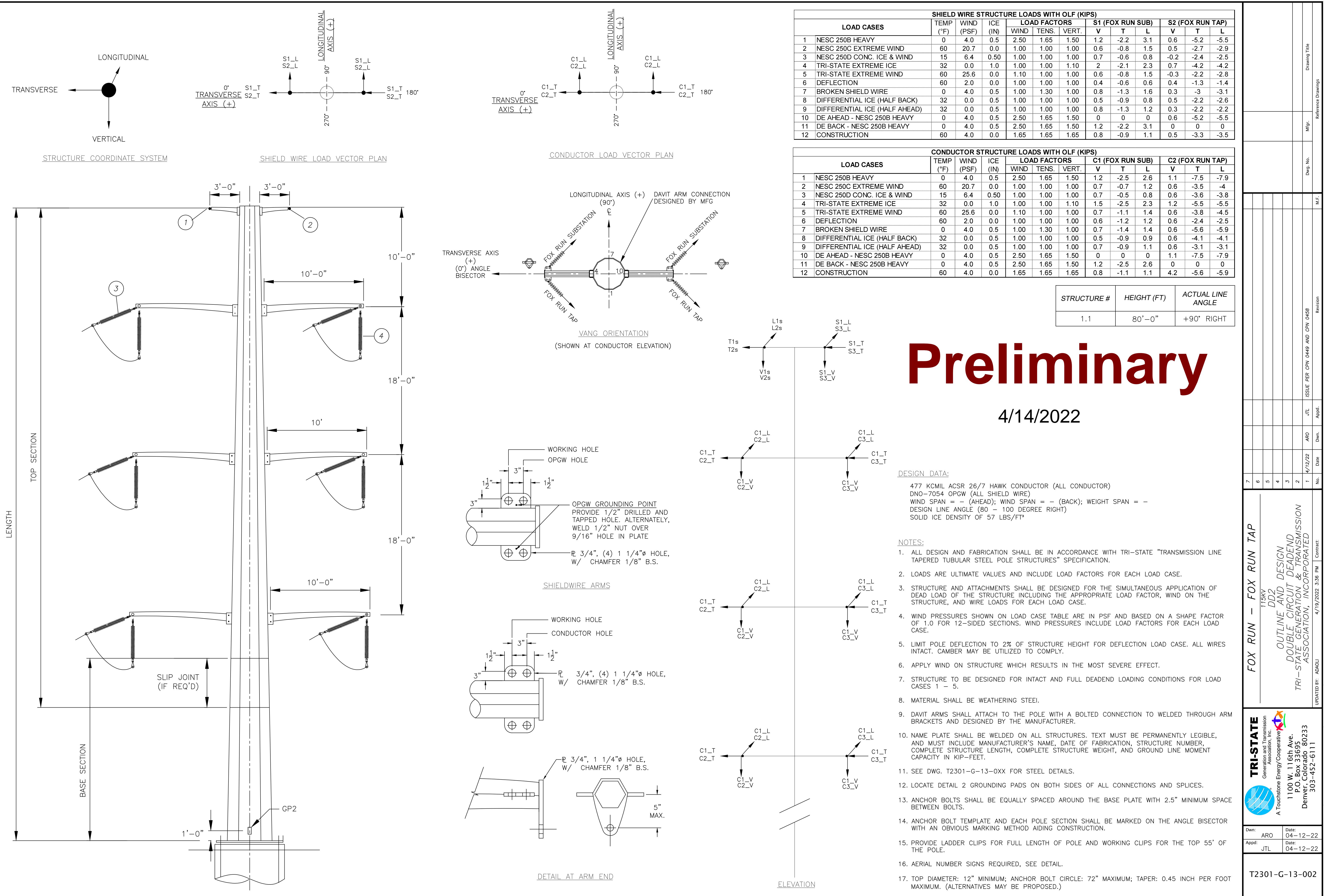
20.0 FT. VERT. SCALE

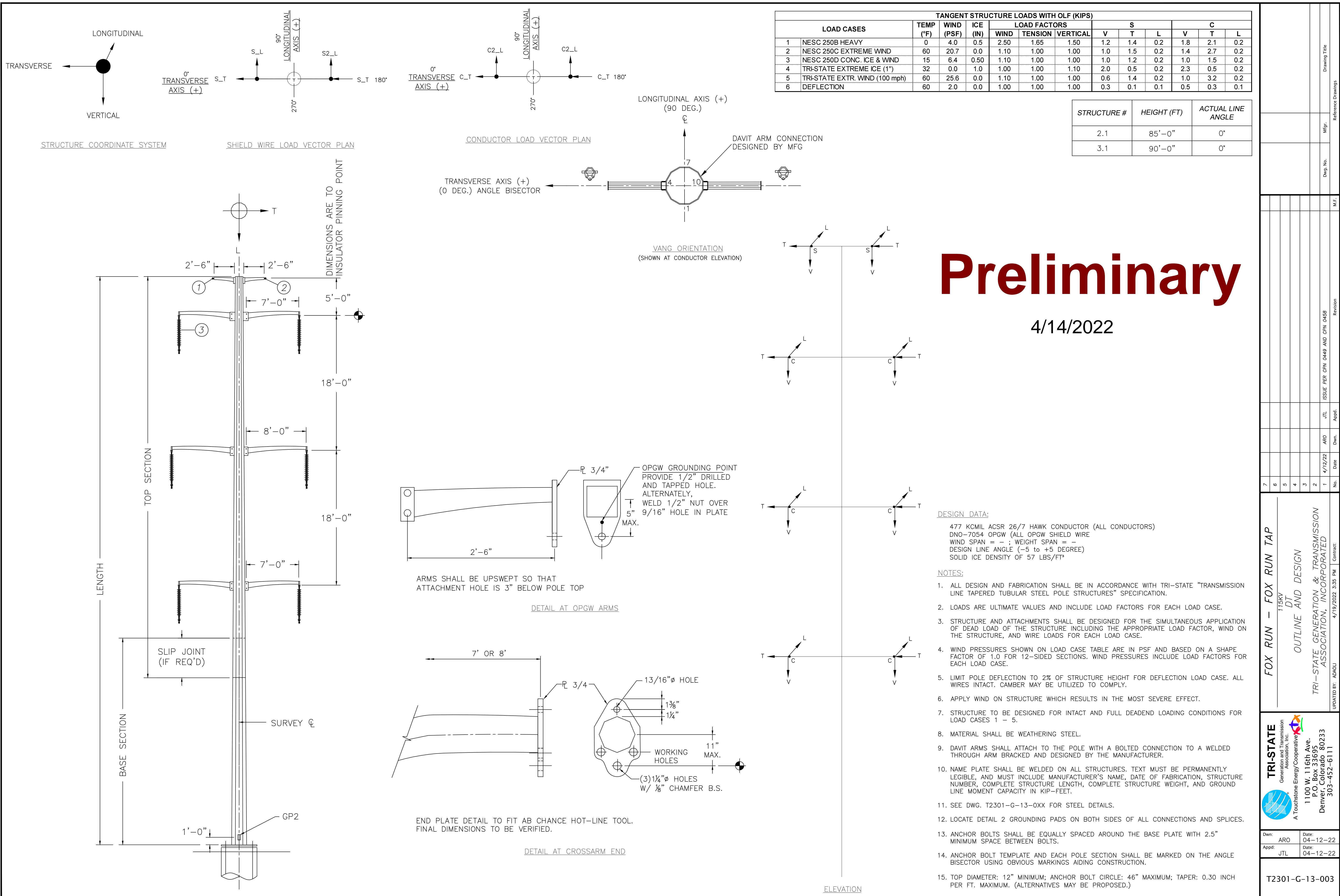
T2301-G-01-006

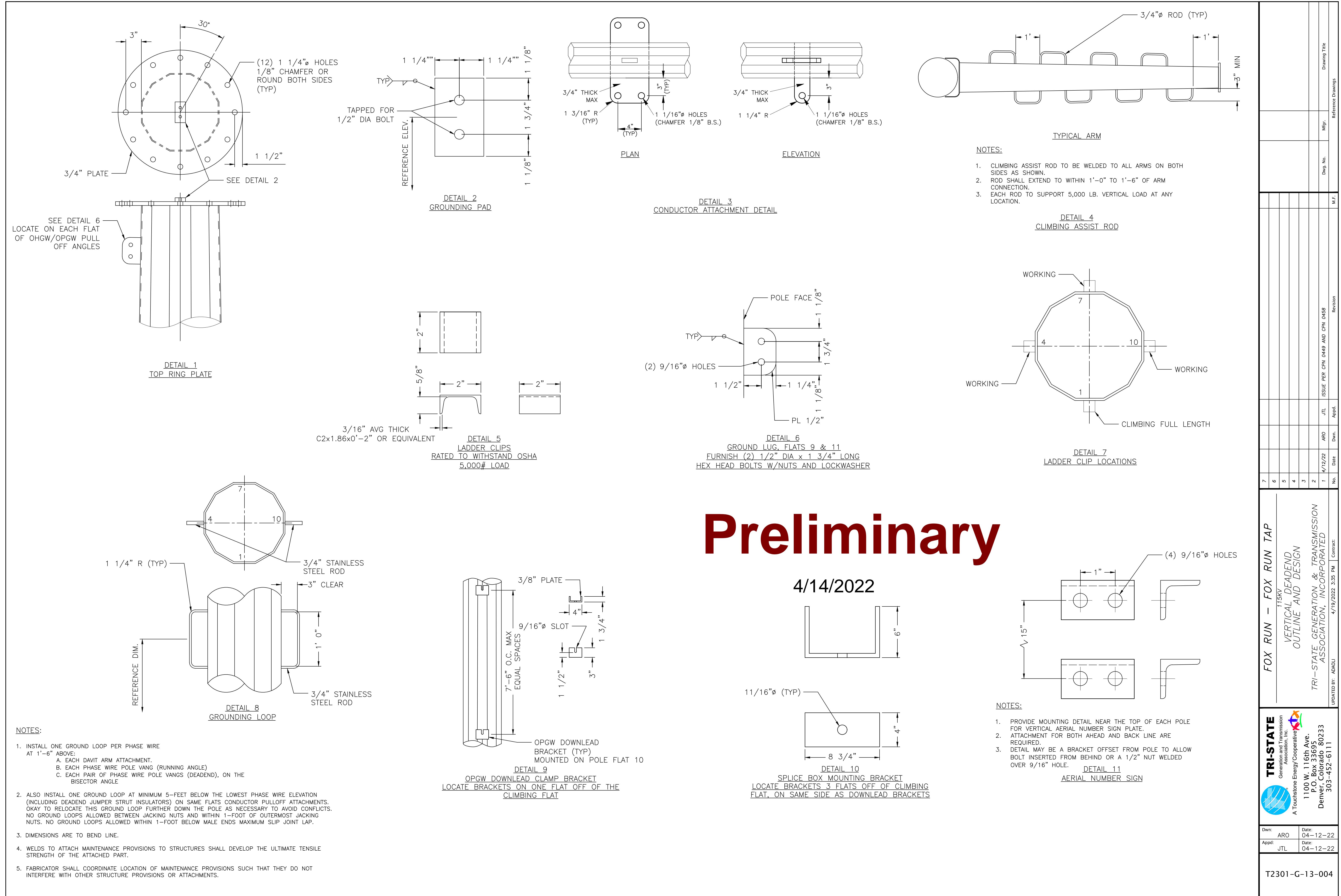


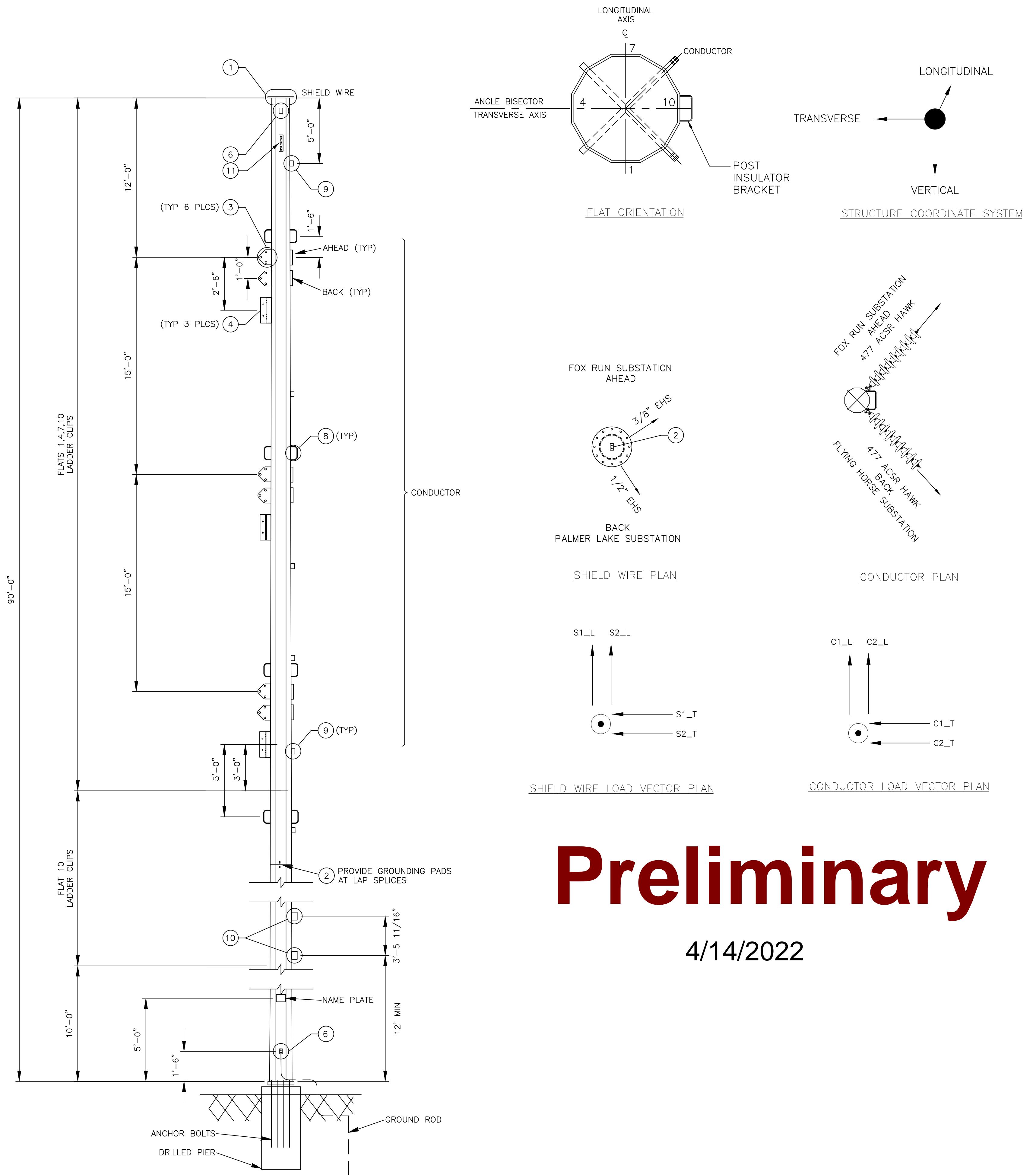
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SHIELD WIRE LOADS WITH OLF (KIPS)											
LOAD CASES			TEMP (°F)	WIND (PSF)	ICE (IN)	LOAD FACTORS			S1 (Fox Run Sub)		
						WIND	TENS.	VERT.	V	T	L
1	NESC 250B HEAVY		0	4.0	0.5	2.50	1.65	1.50	2.2	6.5	-6.5
2	NESC 250C EXTREME WIND		60	20.7	0.0	1.00	1.00	1.00	0.8	2.5	-2.5
3	NESC 250D CONC. ICE & WIND		15	6.4	0.50	1.00	1.00	1.00	0.6	1.9	-1.6
4	TRI-STATE EXTREME ICE		32	0.0	1.0	1.00	1.00	1.10	1.1	4	-4
5	TRI-STATE EXTREME WIND		60	25.6	0.0	1.10	1.00	1.00	0.6	2.8	-2.8
6	DEFLECTION		60	2.0	0.0	1.00	1.00	1.00	0.5	1.3	-1.3
7	BROKEN SHIELD WIRE		0	4.0	0.5	1.00	1.30	1.00	0.6	3.5	-3.5
8	DIFFERENTIAL ICE (HALF BACK)		32	0.0	0.5	1.00	1.00	1.00	0.9	2.6	-2.6
9	DIFFERENTIAL ICE (HALF AHEAD)		32	0.0	0.5	1.00	1.00	1.00	0.6	1.9	-1.9
10	DE AHEAD - NESC 250B HEAVY		0	4.0	0.5	2.50	1.65	1.50	0	0	0
11	DE BACK - NESC 250B HEAVY		0	4.0	0.5	2.50	1.65	1.50	2	6	-5.5
12	CONSTRUCTION		60	4.0	0.0	1.65	1.65	1.65	0.8	3.1	-3.1

CONDUCTOR LOADS WITH OLF (KIPS)											
LOAD CASES			TEMP (°F)	WIND (PSF)	ICE (IN)	LOAD FACTORS			C1 (Fox Run Sub)		
						WIND	TENS.	VERT.	V	T	L
1	NESC 250B HEAVY		0	4.0	0.5	2.50	1.65	1.50	1.5	4	-4
2	NESC 250C EXTREME WIND		60	20.7	0.0	1.00	1.00	1.00	0.8	2.2	-2.2
3	NESC 250D CONC. ICE & WIND		15	6.4	0.50	1.00	1.00	1.00	0.8	1.3	-1.3
4	TRI-STATE EXTREME ICE		32	0.0	1.0	1.00	1.00	1.10	1.3	2.9	-2.9
5	TRI-STATE EXTREME WIND		60	25.6	0.0	1.10	1.00	1.00	0.7	2.4	-2.4
6	DEFLECTION		60	2.0	0.0	1.00	1.00	1.00	0.5	0.8	-0.8
7	BROKEN SHIELD WIRE		0	4.0	0.5	1.00	1.30	1.00	0.8	2.4	-2.4
8	DIFFERENTIAL ICE (HALF BACK)		32	0.0	0.5	1.00	1.00	1.00	0.8	1.8	-1.8
9	DIFFERENTIAL ICE (HALF AHEAD)		32	0.0	0.5	1.00	1.00	1.00	0.6	1.5	-1.5
10	DE AHEAD - NESC 250B HEAVY		0	4.0	0.5	2.50	1.65	1.50	0	0	0
11	DE BACK - NESC 250B HEAVY		0	4.0	0.5	2.50	1.65	1.50	1.1	4	-4
12	CONSTRUCTION		60	4.0	0.0	1.65	1.65	1.65	4.2	1.6	-1.6

STRUCTURE # PL1 **HEIGHT (FT)** 90'-0" **ACTUAL LINE ANGLE** 90° (LEFT)

DESIGN DATA:

477 KCMIL ACSR 26/7 HAWK CONDUCTOR
1/2" EHS 7-STRAND STEEL OPGW
WIND SPAN = - (AHEAD); WIND SPAN = - (BACK)
DESIGN LINE ANGLE (-80° - 95°)
SOLID ICE DENSITY OF 57 LBS/FT³

NOTES:

- ALL DESIGN AND FABRICATION SHALL BE IN ACCORDANCE WITH TRI-STATE "TRANSMISSION LINE TAPERED TUBULAR STEEL POLE STRUCTURES" SPECIFICATION.
- LOADS ARE ULTIMATE VALUES AND INCLUDE LOAD FACTORS FOR EACH LOAD CASE.
- STRUCTURE AND ATTACHMENTS SHALL BE DESIGNED FOR THE SIMULTANEOUS APPLICATION OF DEAD LOAD OF THE STRUCTURE INCLUDING THE APPROPRIATE LOAD FACTOR, WIND ON THE STRUCTURE, AND WIRE LOADS FOR EACH LOAD CASE.
- WIND PRESSURES SHOWN ON LOAD CASE TABLE ARE IN PSF AND ARE BASED ON A SHAPE FACTOR OF 1.0 FOR 12-SIDED SECTIONS. WIND PRESSURES INCLUDE LOAD FACTORS FOR EACH LOAD CASE.
- LIMIT POLE DEFLECTION TO 2% OF STRUCTURE HEIGHT FOR DEFLECTION LOAD CASE. ALL WIRES INTACT.
- APPLY WIND ON STRUCTURE WHICH RESULTS IN THE MOST SEVERE EFFECT.
- STRUCTURE TO BE DESIGNED FOR INTACT AND FULL DEADEND LOADING CONDITIONS FOR LOAD CASES 1-5.
- MATERIAL SHALL BE WEATHERING STEEL
- NAME PLATE SHALL BE WELDED ON ALL STRUCTURES. TEXT MUST BE PERMANENTLY LEGIBLE, AND MUST INCLUDE MANUFACTURER'S NAME, DATE OF FABRICATION, STRUCTURE NUMBER, COMPLETE STRUCTURE LENGTH, COMPLETE STRUCTURE WEIGHT, AND GROUND LINE MOMENT CAPACITY IN KIP-FEET.
- SEE DWG. T1005-G-13-016 FOR STEEL DETAILS.
- LOCATE DETAIL 2 GROUNDING PADS ON BOTH SIDES OF ALL CONNECTIONS AND SPLICES.
- ANCHOR BOLTS SHALL BE EQUALLY SPACED AROUND THE POLE DIAMETER, WITH A MINIMUM 2.5" CLEAR SPACE BETWEEN THE BOLTS.
- TOP DIAMETER: 12" MINIMUM; ANCHOR BOLT DIAMETER: 62" MAXIMUM; TAPER: 0.4 INCH PER FOOT MAXIMUM. (ALTERNATIVES MAY BE PROPOSED.)
- LADDER CLIPS SHALL BE INCLUDED TO CLIMB THE ENTIRE POLE, AND WORKING CLIPS SHALL BE INCLUDED ON THE TOP 50' OF THE POLE.
- POLES MAY BE SINGLE PIECE OR MAY INCLUDE A SINGLE SLIP JOINT.

FOX RUN - FOX RUN TAP

115KV VDE2 OUTLINE AND DESIGN VERTICAL DEADEND TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

UPDATED BY: ADONI 4/20/2022 9:32 AM Contractor

TRI-STATE Generation and Transmission Association, Inc.
A Touchstone Energy Cooperative
1100 W. 116th Ave.
P.O. Box 333695 Denver, Colorado 80233
303-452-6111

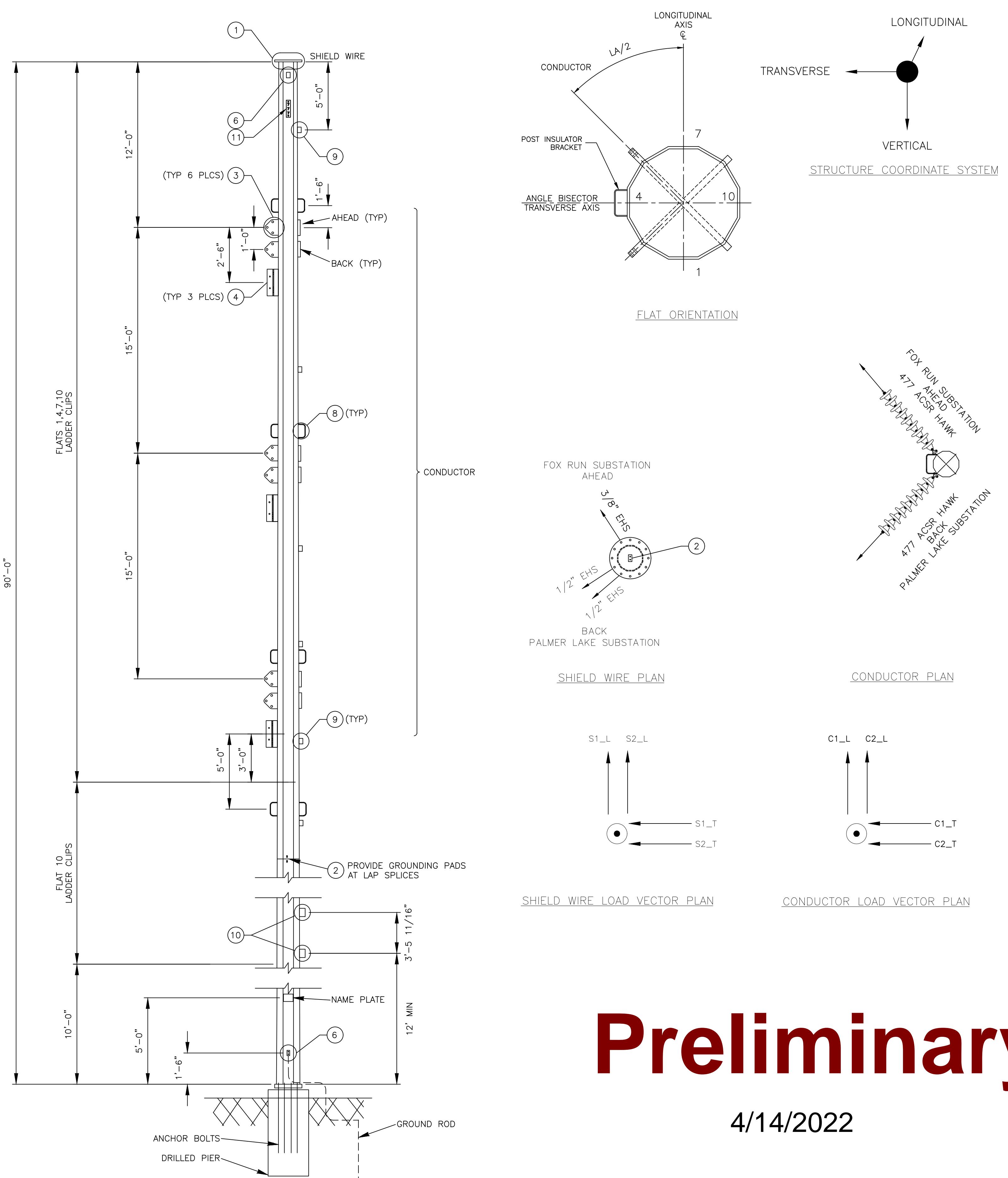
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ELEVATION

T2301-G-13-005

Preliminary

4/14/2022



ELEVATION

SHIELD WIRE LOADS WITH OLF (KIPS)												
LOAD CASES	TEMP (°F)	WIND (PSF)	ICE (IN)	LOAD FACTORS			S1 (Fox Run)		S2 (Flying Horse)			
				WIND	TENS.	VERT.	V	T	L	V	T	L
1 NESC 250B HEAVY	0	4.0	0.5	2.50	1.65	1.50	1.4	-3.8	-3.8	2.3	-20	19
2 NESC 250C EXTREME WIND	60	20.7	0.0	1.00	1.00	1.00	0.8	-1.6	-1.6	1.3	-9	8
3 NESC 250D CONC. ICE & WIND	15	6.4	0.50	1.00	1.00	1.00	0.8	-1.1	-1.1	1.1	-7.9	7.9
4 TRI-STATE EXTREME ICE	32	0.0	1.0	1.00	1.00	1.10	1.3	-3.1	-3.1	3	-13.9	13.4
5 TRI-STATE EXTREME WIND	60	25.6	0.0	1.10	1.00	1.00	0.8	-1.3	-1.6	1.3	-9.3	8.1
6 DEFLECTION	60	2.0	0.0	1.00	1.00	1.00	0.2	-0.5	-0.5	0.7	-6.3	6.3
7 BROKEN SHIELD WIRE	0	4.0	0.5	1.00	1.30	1.00	0.8	-2.3	-2.2	1.4	-14	13.8
8 DIFFERENTIAL ICE (HALF BACK)	32	0.0	0.5	1.00	1.00	1.00	0.8	-1.8	-1.8	1.3	-8.5	8.5
9 DIFFERENTIAL ICE (HALF AHEAD)	32	0.0	0.5	1.00	1.00	1.00	0.6	-1.1	-1.1	1.4	-9.5	9.8
10 DE AHEAD - NESC 250B HEAVY	0	4.0	0.5	2.50	1.65	1.50	0	0	0	2.3	-20	19
11 DE BACK - NESC 250B HEAVY	0	4.0	0.5	2.50	1.65	1.50	1.4	-3.8	-3.8	0	0	0
12 CONSTRUCTION	60	4.0	0.0	1.65	1.65	1.65	0.8	-1.3	-1.3	1.5	-13.2	13

CONDUCTOR LOADS WITH OLF (KIPS)												
LOAD CASES	TEMP (°F)	WIND (PSF)	ICE (IN)	LOAD FACTORS			C1 (Fox Run)		C2 (Flying Horse)			
				WIND	TENS.	VERT.	C1_V	C1_T	C1_L	C2_V	C2_T	C2_L
1 NESC 250B HEAVY	0	4.0	0.5	2.50	1.65	1.50	1.4	-3.6	-3.3	1.8	-10.4	9.6
2 NESC 250C EXTREME WIND	60	20.7	0.0	1.00	1.00	1.00	0.8	-1.9	-1.6	1	-4.8	3.9
3 NESC 250D CONC. ICE & WIND	15	6.4	0.50	1.00	1.00	1.00	0.8	-1.4	-1.3	1.1	-3.8	3.3
4 TRI-STATE EXTREME ICE	32	0.0	1.0	1.00	1.00	1.10	1.3	-2.8	-2.8	2.2	-7.3	7.3
5 TRI-STATE EXTREME WIND	60	25.6	0.0	1.10	1.00	1.00	0.8	-2	-1.9	1.1	-5.2	4.4
6 DEFLECTION	60	2.0	0.0	1.00	1.00	1.00	0.3	-0.6	-0.6	0.8	-2.2	2.1
7 BROKEN SHIELD WIRE	0	4.0	0.5	1.00	1.30	1.00	0.7	-2.5	-2.5	1.3	-7	6.6
8 DIFFERENTIAL ICE (HALF BACK)	32	0.0	0.5	1.00	1.00	1.00	0.9	-1.8	-1.8	0.9	-3.9	3.9
9 DIFFERENTIAL ICE (HALF AHEAD)	32	0.0	0.5	1.00	1.00	1.00	0.6	-1.3	-1.3	1.3	-4.9	4.9
10 DE AHEAD - NESC 250B HEAVY	0	4.0	0.5	2.50	1.65	1.50	0	0	0	1.8	-10.4	9.6
11 DE BACK - NESC 250B HEAVY	0	4.0	0.5	2.50	1.65	1.50	1.4	-3.6	-3.3	0	0	0
12 CONSTRUCTION	60	4.0	0.0	1.65	1.65	1.65	0.8	-1.8	-1.8	4.6	-5.4	5.3

STRUCTURE #	HEIGHT (FT)	ACTUAL LINE ANGLE
FH1	90'-0"	-90° (LEFT)

DESIGN DATA:

477 KMIL ACSR 26/7 HAWK CONDUCTOR
1/2" EHS 7-STRAND STEEL OPGW
WIND SPAN = - (AHEAD); WIND SPAN = - (BACK)
DESIGN LINE ANGLE (-80° - -95°)
SOLID ICE DENSITY OF 57 LBS/FT³

NOTES:

- ALL DESIGN AND FABRICATION SHALL BE IN ACCORDANCE WITH TRI-STATE "TRANSMISSION LINE TAPERED TUBULAR STEEL POLE STRUCTURES" SPECIFICATION.
- LOADS ARE ULTIMATE VALUES AND INCLUDE LOAD FACTORS FOR EACH LOAD CASE.
- STRUCTURE AND ATTACHMENTS SHALL BE DESIGNED FOR THE SIMULTANEOUS APPLICATION OF DEAD LOAD OF THE STRUCTURE INCLUDING THE APPROPRIATE LOAD FACTOR, WIND ON THE STRUCTURE, AND WIRE LOADS FOR EACH LOAD CASE.
- WIND PRESSURES SHOWN ON LOAD CASE TABLE ARE IN PSF AND ARE BASED ON A SHAPE FACTOR OF 1.0 FOR 12-SIDED SECTIONS. WIND PRESSURES INCLUDE LOAD FACTORS FOR EACH LOAD CASE.
- LIMIT POLE DEFLECTION TO 2% OF STRUCTURE HEIGHT FOR DEFLECTION LOAD CASE. ALL WIRES INTACT.
- APPLY WIND ON STRUCTURE WHICH RESULTS IN THE MOST SEVERE EFFECT.
- STRUCTURE TO BE DESIGNED FOR INTACT AND FULL DEADEND LOADING CONDITIONS FOR LOAD CASES 1-5.
- MATERIAL SHALL BE WEATHERING STEEL.
- NAME PLATE SHALL BE WELDED ON ALL STRUCTURES. TEXT MUST BE PERMANENTLY LEGIBLE, AND MUST INCLUDE MANUFACTURER'S NAME, DATE OF FABRICATION, STRUCTURE NUMBER, COMPLETE STRUCTURE LENGTH, COMPLETE STRUCTURE WEIGHT, AND GROUND LINE MOMENT CAPACITY IN KIP-FEET.
- SEE DWG. T1005-G-13-016 FOR STEEL DETAILS.
- LOCATE DETAIL 2 GROUNDING PADS ON BOTH SIDES OF ALL CONNECTIONS AND SPLICES.
- ANCHOR BOLTS SHALL BE EQUALLY SPACED AROUND THE POLE DIAMETER, WITH A MINIMUM 2.5" CLEAR SPACE BETWEEN THE BOLTS.
- TOP DIAMETER: 12" MINIMUM; ANCHOR BOLT DIAMETER: 62" MAXIMUM; TAPER: 0.4 INCH PER FOOT MAXIMUM. (ALTERNATIVES MAY BE PROPOSED.)
- LADDER CLIPS SHALL BE INCLUDED TO CLIMB THE ENTIRE POLE, AND WORKING CLIPS SHALL BE INCLUDED ON THE TOP 50' OF THE POLE.
- POLES MAY BE SINGLE PIECE OR MAY INCLUDE A SINGLE SLIP JOINT.

TRI-STATE
Generation and Transmission Association, Inc.
A Touchstone Energy Cooperative
1100 W. 116th Ave.
P.O. Box 33695
Denver, Colorado 80233
303-452-5111

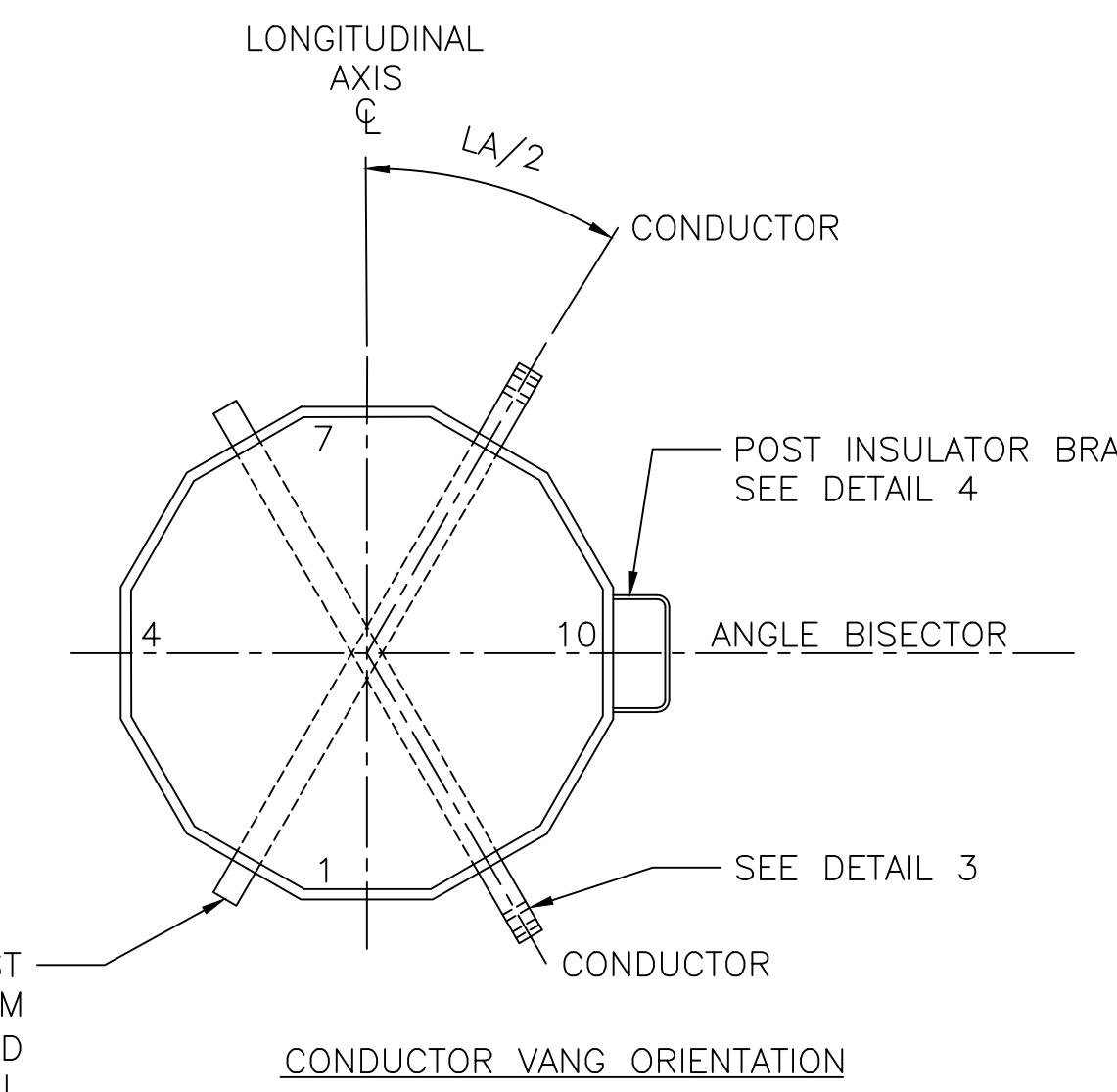
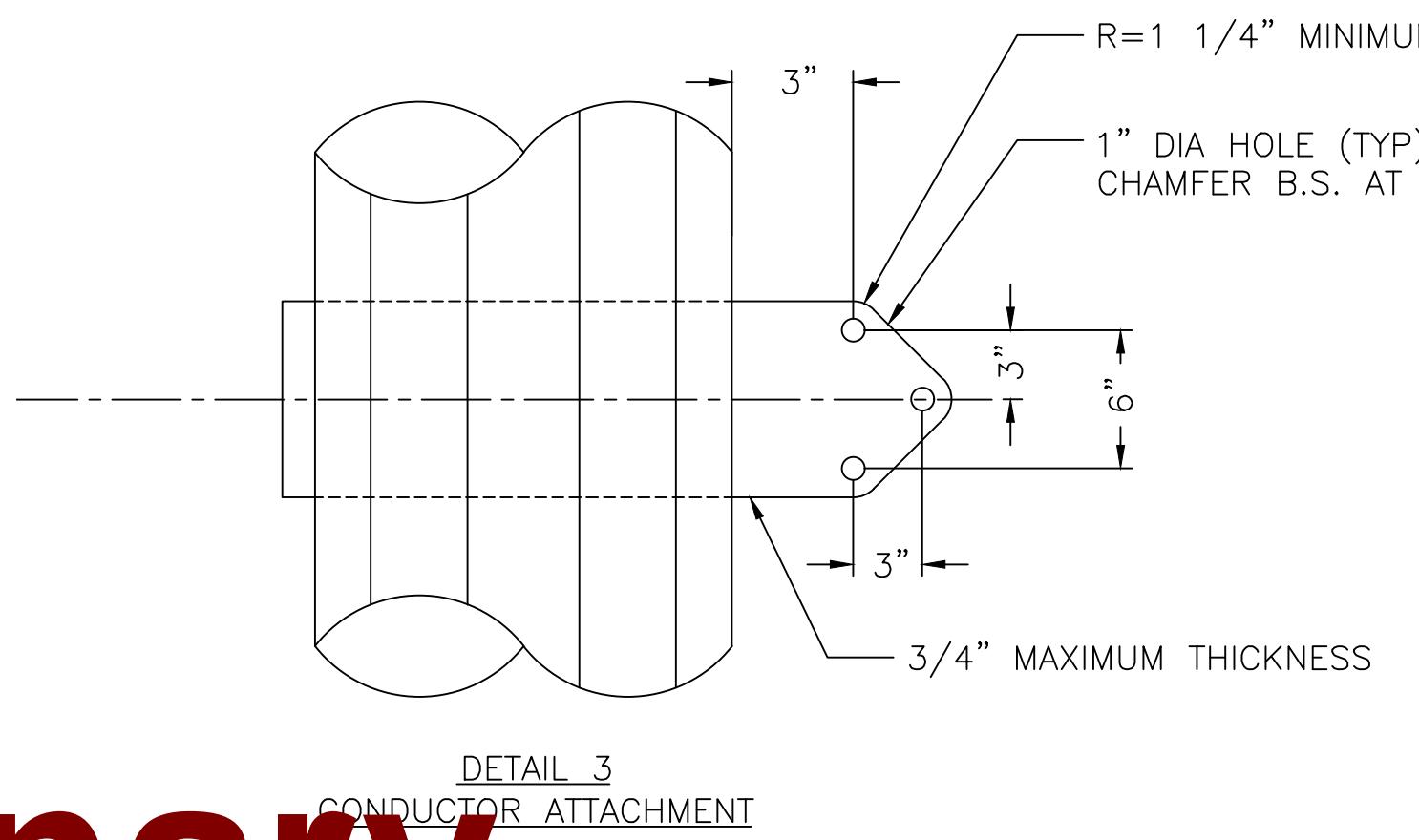
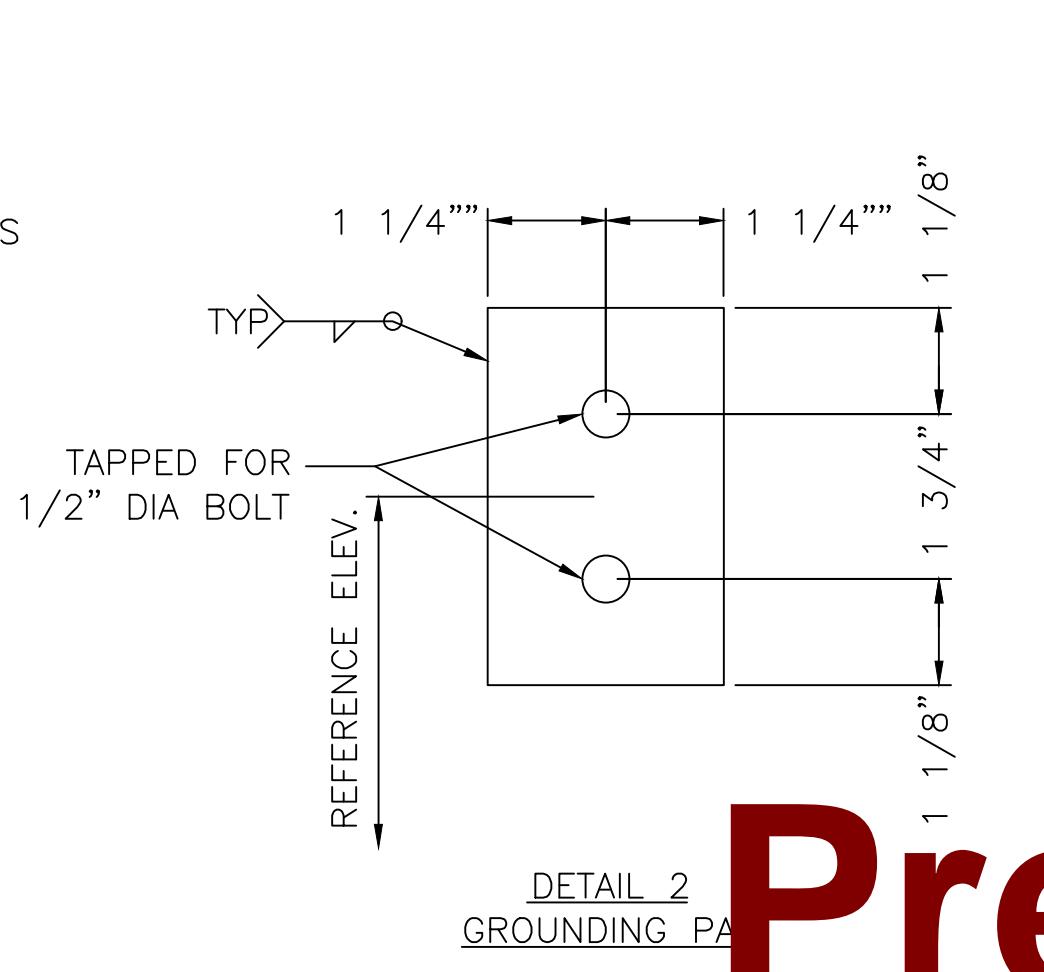
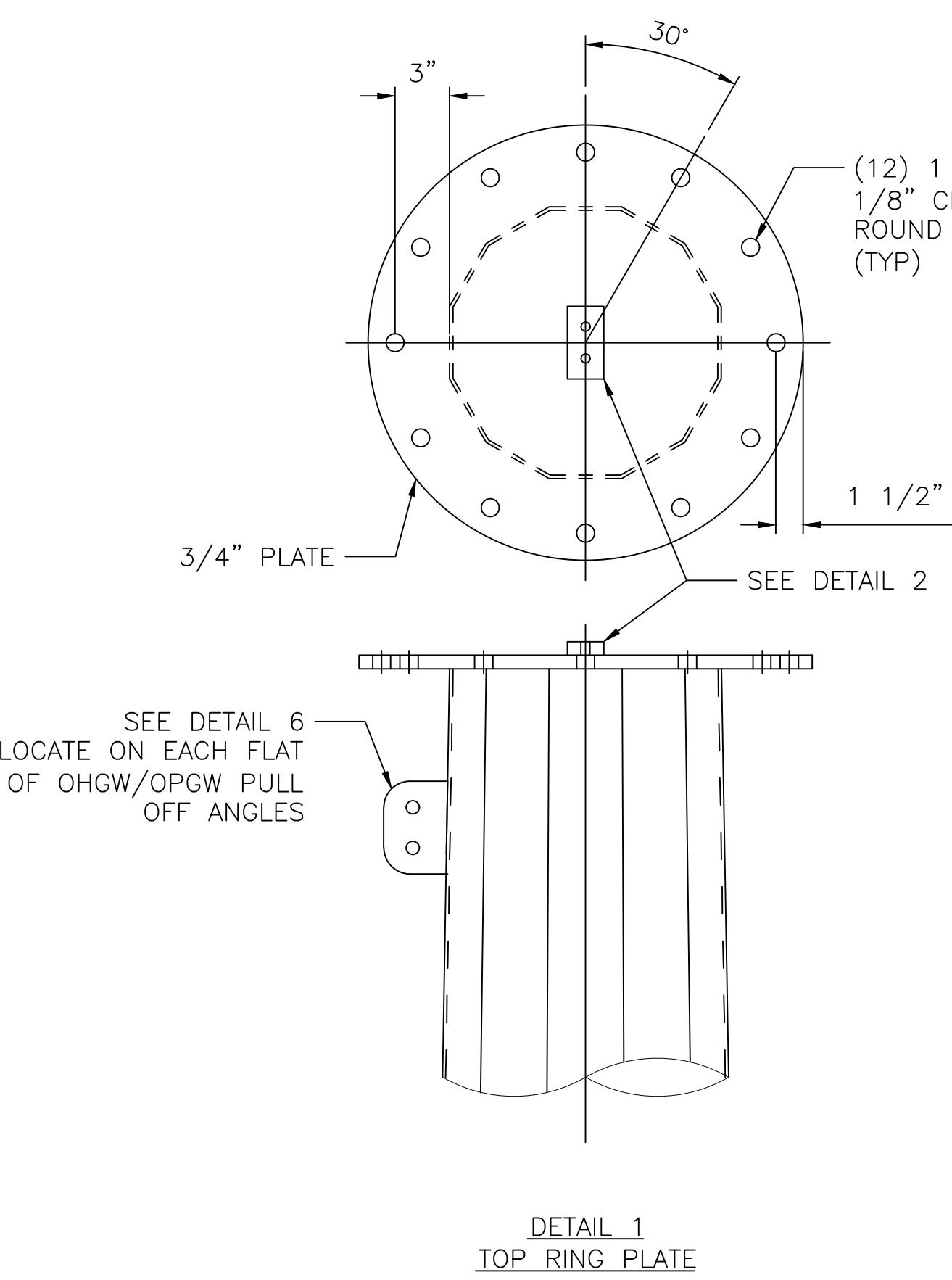
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Appd: JTL Date: 04-12-22

T2301-G-13-006

115KV
VDE1
OUTLINE AND DESIGN
VERTICAL DEADEND
TRANSMISSION
ASSOCIATION, INCORPORATED
4/20/2022 9:33 AM Contact:
4/2/22 ADOU

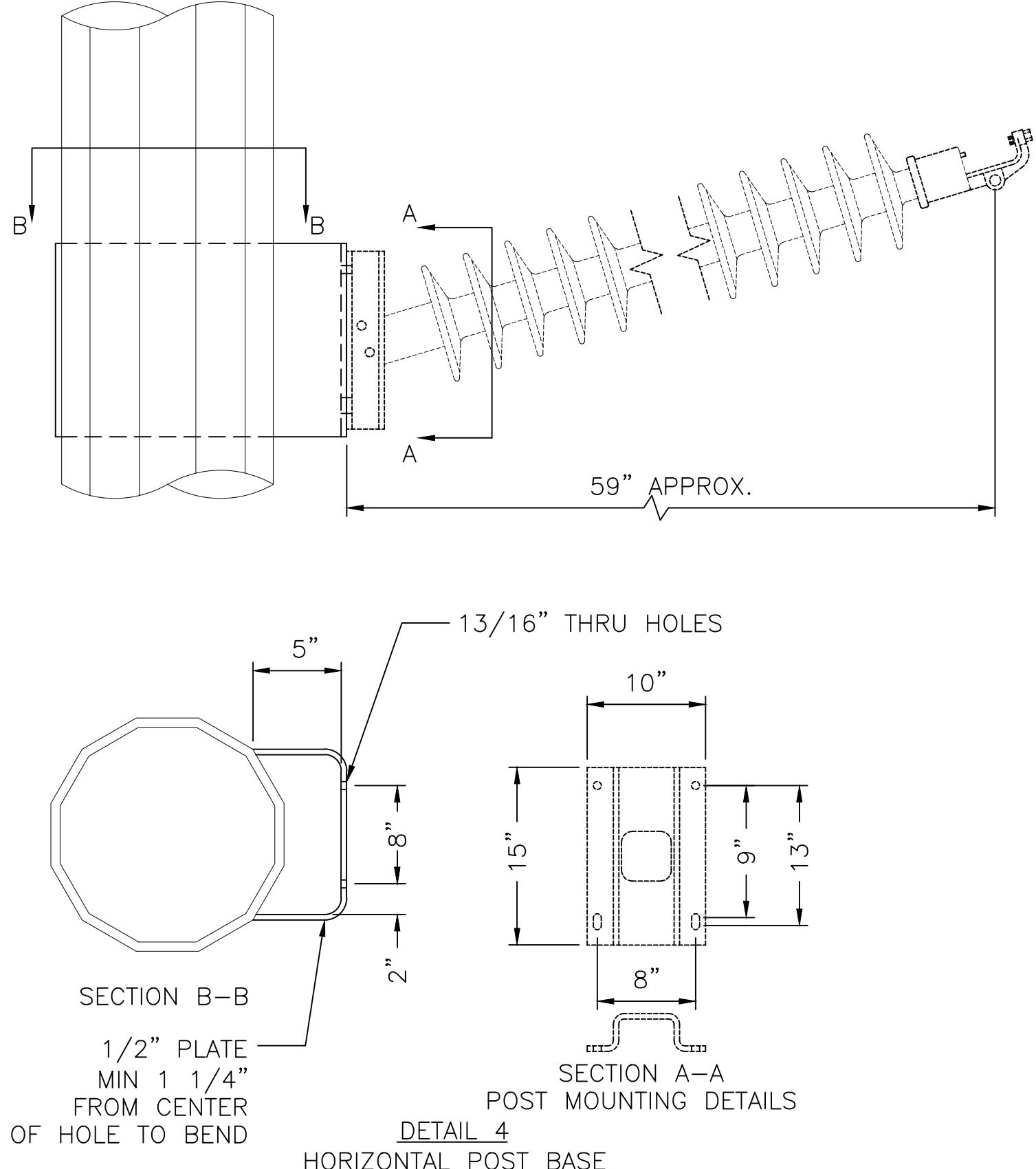
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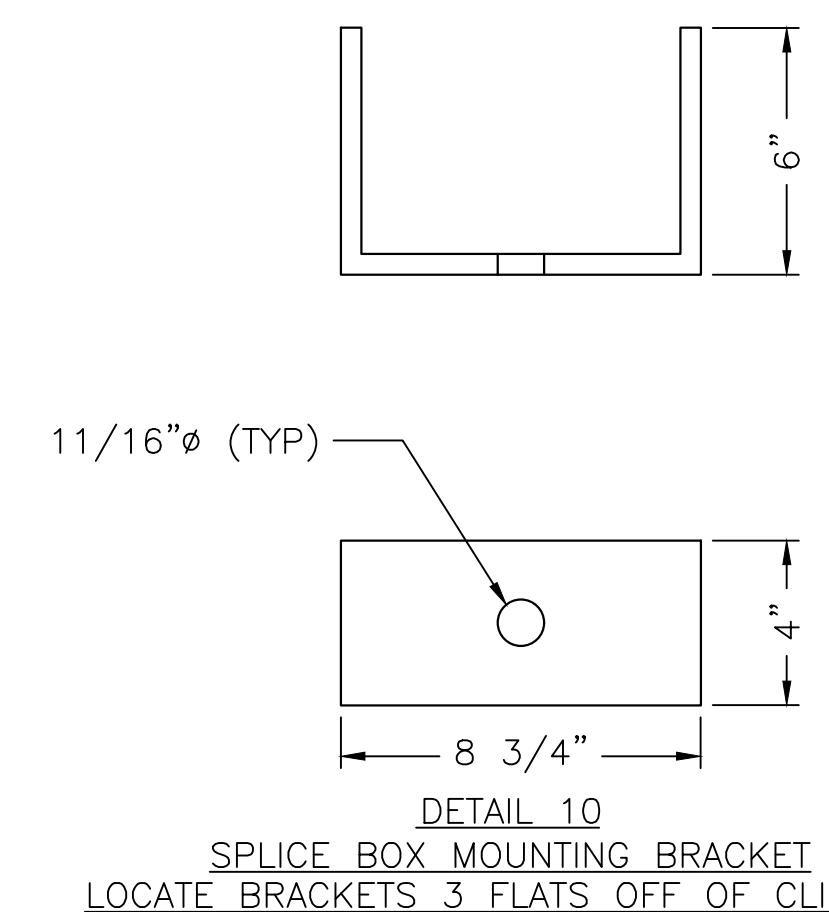
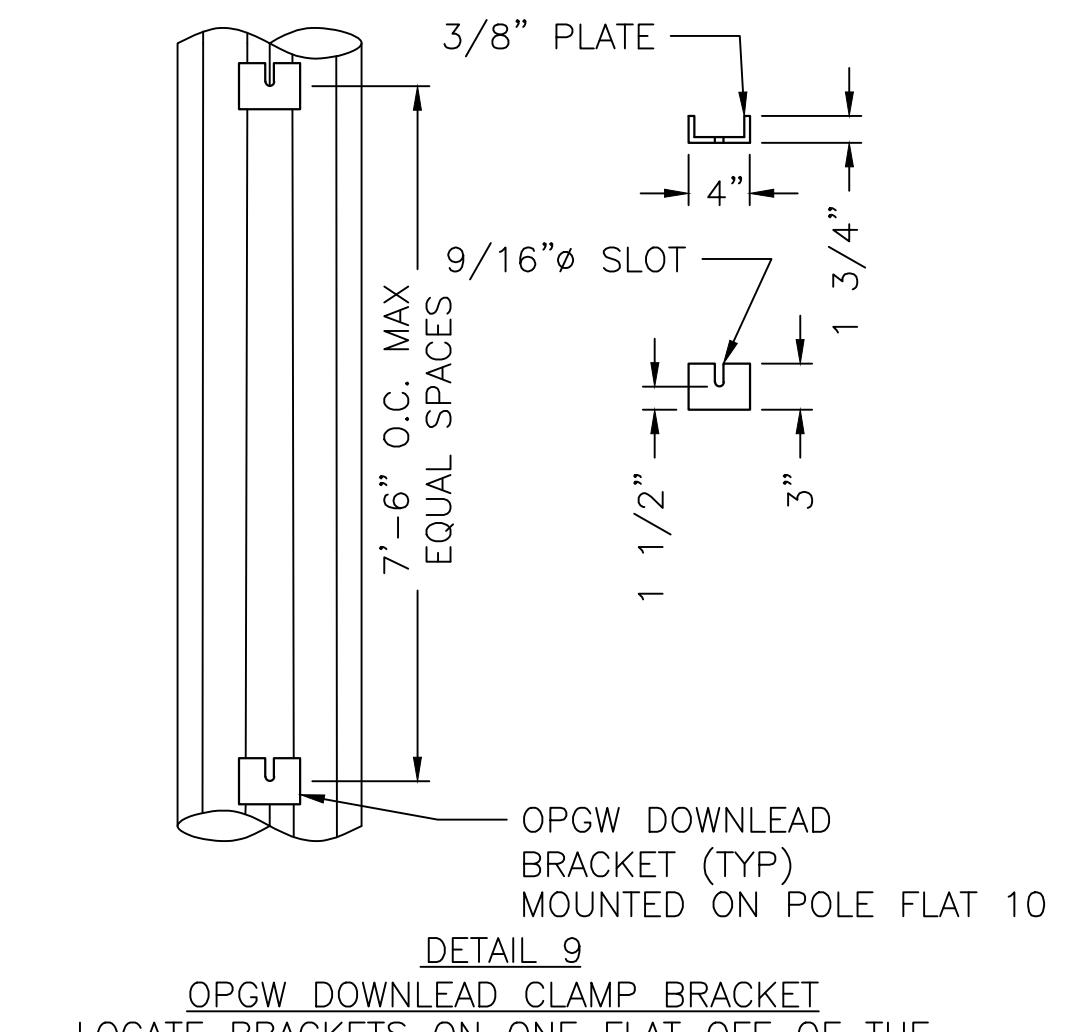
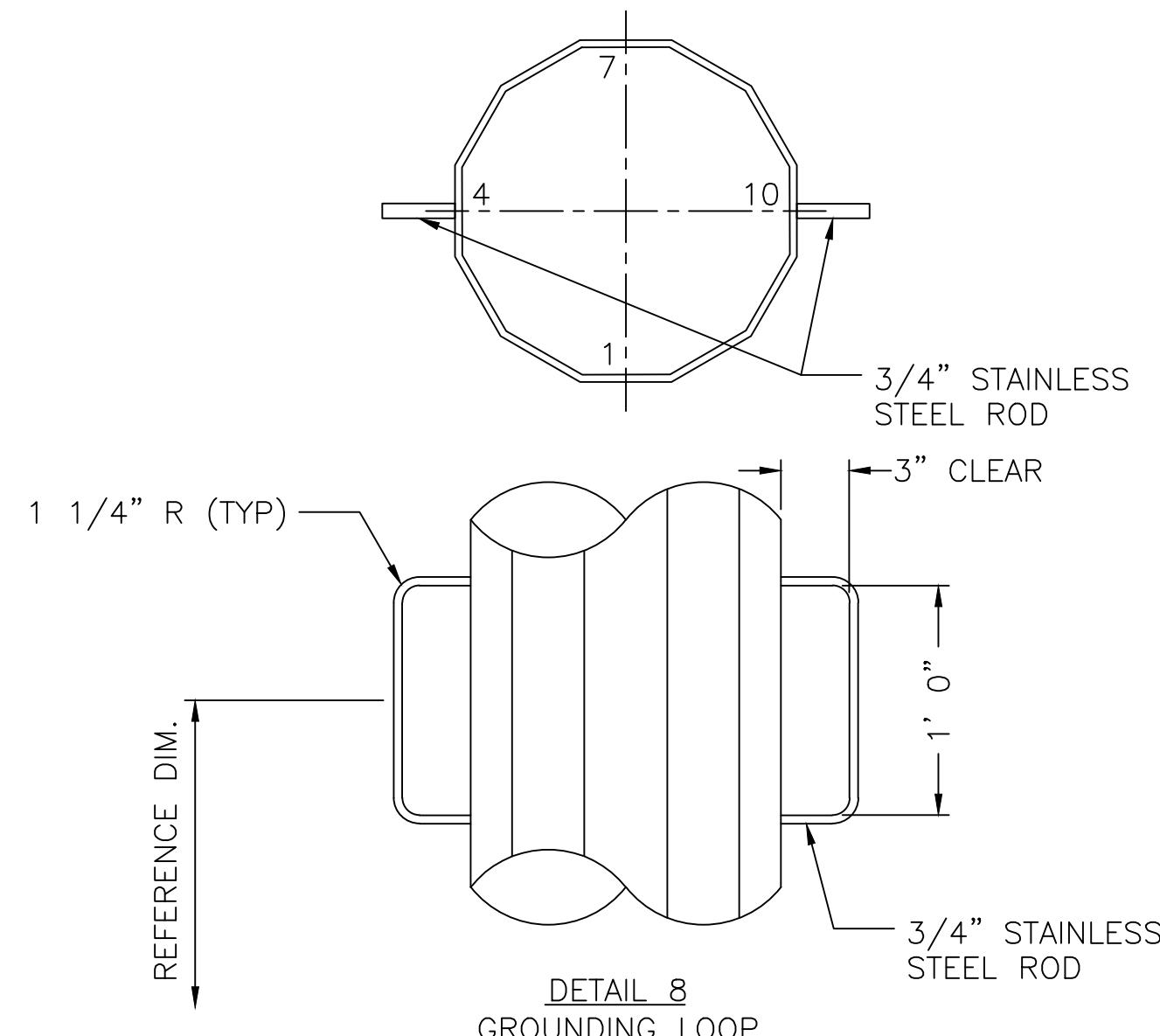


DETAIL 1
TOP RING PLATE

DETAIL 5
LADDER CLIPS
RATED TO WITHSTAND OSHA 5,000# LOAD
3/16" AVG THICK
C2x1.86x0'-2" OR EQUIVALENT



DETAIL 4
HORIZONTAL POST BASE



- NOTES:**
1. PROVIDE MOUNTING DETAIL NEAR THE TOP OF EACH POLE FOR VERTICAL AERIAL NUMBER SIGN PLATE.
 2. ATTACHMENT FOR BOTH AHEAD AND BACK LINE ARE REQUIRED.
 3. DETAIL MAY BE A BRACKET OFFSET FROM POLE TO ALLOW BOLT INSERTED FROM BEHIND OR A 1/2" NUT WELDED OVER 9/16" HOLE.
- DETAIL 11**
AERIAL NUMBER SIGN

- NOTES:**
1. INSTALL ONE GROUND LOOP PER PHASE WIRE AT 1'-6" ABOVE:
 - EACH DAVIT ARM ATTACHMENT.
 - EACH PHASE WIRE POLE VANG (RUNNING ANGLE).
 - EACH PAIR OF PHASE WIRE POLE VANGS (DEADEND), ON THE BISCTOR ANGLE.

2. ALSO INSTALL ONE GROUND LOOP AT MINIMUM 5-FEET BELOW THE LOWEST PHASE WIRE ELEVATION (INCLUDING DEADEND JUMPER STRUT INSULATORS) ON SAME FLATS AS CONDUCTOR PULLOFF ATTACHMENTS. OKAY TO RELOCATE THIS GROUND LOOP FURTHER DOWN THE POLE AS NECESSARY TO AVOID CONFLICTS. NO GROUND LOOPS ALLOWED BETWEEN JACKING NUTS AND WITHIN 1-FOOT OF OUTERMOST JACKING NUTS. NO GROUND LOOPS ALLOWED WITHIN 1-FOOT BELOW MALE ENDS MAXIMUM SLIP JOINT LAP.
3. DIMENSIONS ARE TO BEND LINE.
4. WELDS TO ATTACH MAINTENANCE PROVISIONS TO STRUCTURES SHALL DEVELOP THE ULTIMATE TENSILE STRENGTH OF THE ATTACHED PART.
5. FABRICATOR SHALL COORDINATE LOCATION OF MAINTENANCE PROVISIONS SUCH THAT THEY DO NOT INTERFERE WITH OTHER STRUCTURE PROVISIONS OR ATTACHMENTS.



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303-452-5111

115KV VERTICAL DEADEND OUTLINE AND DESIGN

TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED

4/20/2022 9:33 AM Contact:

Dwn: ARO Date: 04-12-22
Appd: JTL Date: 04-12-22

T2301-G-13-007

Reference Drawings Drawing Title
Drawing No. M.F. Rev. No. Date

Site Development Plan_V2.pdf Markup Summary

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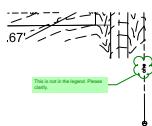
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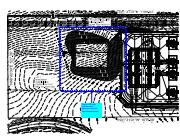
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Depict 15ft wide maintenance easement around impoundment area