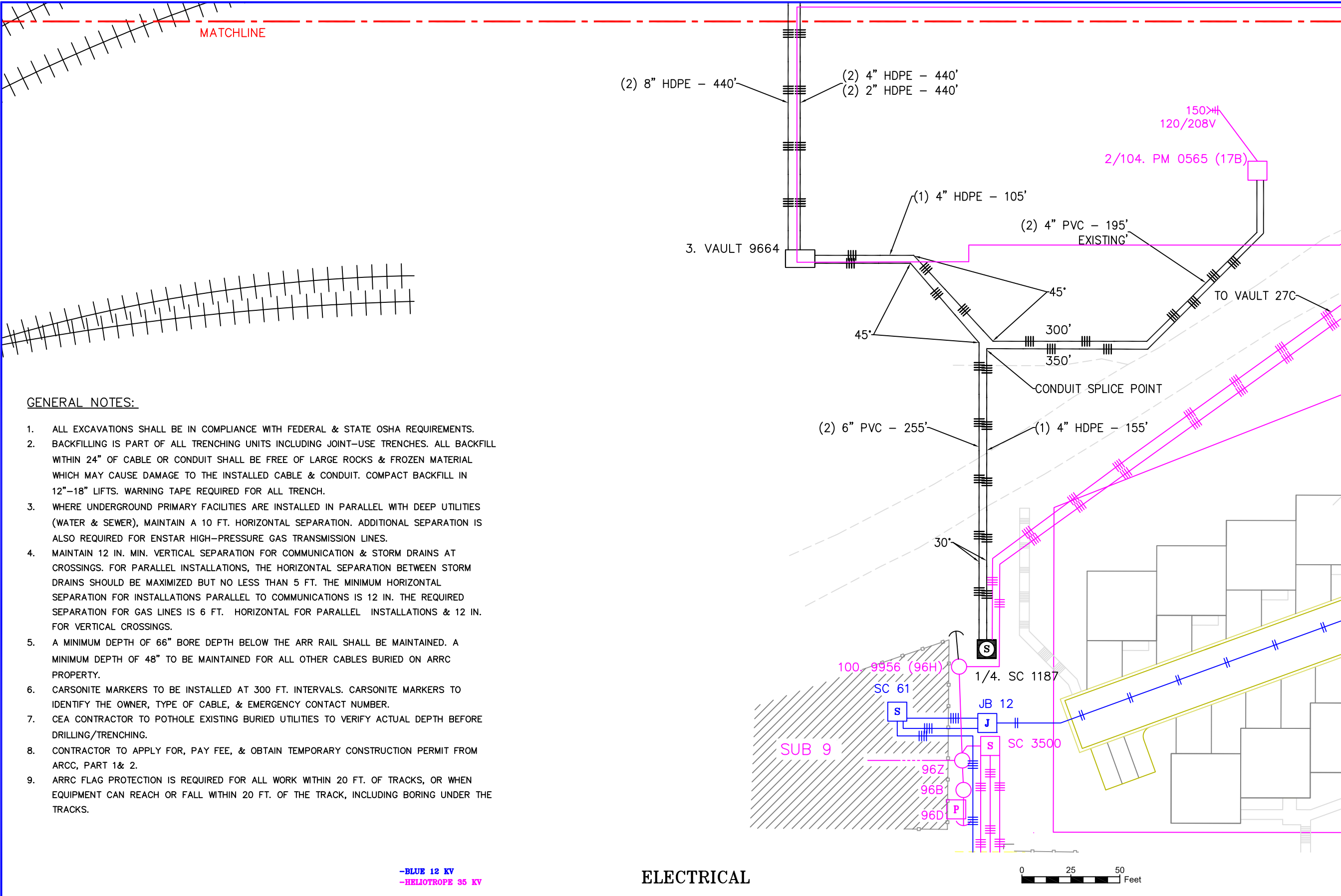




GENERAL NOTES:

- ALL EXCAVATIONS SHALL BE IN COMPLIANCE WITH FEDERAL & STATE OSHA REQUIREMENTS.
- BACKFILLING IS PART OF ALL TRENCHING UNITS INCLUDING JOINT-USE TRENCHES. ALL BACKFILL WITHIN 24" OF CABLE OR CONDUIT SHALL BE FREE OF LARGE ROCKS & FROZEN MATERIAL WHICH MAY CAUSE DAMAGE TO THE INSTALLED CABLE & CONDUIT. COMPACT BACKFILL IN 12"-18" LIFTS. WARNING TAPE REQUIRED FOR ALL TRENCH.
- WHERE UNDERGROUND PRIMARY FACILITIES ARE INSTALLED IN PARALLEL WITH DEEP UTILITIES (WATER & SEWER), MAINTAIN A 10 FT. HORIZONTAL SEPARATION. ADDITIONAL SEPARATION IS ALSO REQUIRED FOR ENSTAR HIGH-PRESSURE GAS TRANSMISSION LINES.
- MAINTAIN 12 IN. MIN. VERTICAL SEPARATION FOR COMMUNICATION & STORM DRAINS AT CROSSINGS. FOR PARALLEL INSTALLATIONS, THE HORIZONTAL SEPARATION BETWEEN STORM DRAINS SHOULD BE MAXIMIZED BUT NO LESS THAN 5 FT. THE MINIMUM HORIZONTAL SEPARATION FOR INSTALLATIONS PARALLEL TO COMMUNICATIONS IS 12 IN. THE REQUIRED SEPARATION FOR GAS LINES IS 6 FT. HORIZONTAL FOR PARALLEL INSTALLATIONS & 12 IN. FOR VERTICAL CROSSINGS.
- A MINIMUM DEPTH OF 66" BORE DEPTH BELOW THE ARR RAIL SHALL BE MAINTAINED. A MINIMUM DEPTH OF 48" TO BE MAINTAINED FOR ALL OTHER CABLES BURIED ON ARRC PROPERTY.
- CARSONITE MARKERS TO BE INSTALLED AT 300 FT. INTERVALS. CARSONITE MARKERS TO IDENTIFY THE OWNER, TYPE OF CABLE, & EMERGENCY CONTACT NUMBER.
- CEA CONTRACTOR TO POTHOLE EXISTING BURIED UTILITIES TO VERIFY ACTUAL DEPTH BEFORE DRILLING/TRENCHING.
- CONTRACTOR TO APPLY FOR, PAY FEE, & OBTAIN TEMPORARY CONSTRUCTION PERMIT FROM ARCC, PART 1 & 2.
- ARRC FLAG PROTECTION IS REQUIRED FOR ALL WORK WITHIN 20 FT. OF TRACKS, OR WHEN EQUIPMENT CAN REACH OR FALL WITHIN 20 FT. OF THE TRACK, INCLUDING BORING UNDER THE TRACKS.

-BLUE 12 KV
-HELIOTROPE 35 KV

ELECTRICAL

Vicinity Map
N.T.S.

CONDUCTOR DATA	
Manuf. _____	Manuf. _____
Manuf. Date _____	Manuf. Date _____
Volt Rating _____	Volt Rating _____
Insul. Type _____	Insul. Type _____
Insul. Size _____	Insul. Size _____
Cond. Size/Type _____	Cond. Size/Type _____
Quantity in Feet _____	Quantity in Feet _____

Manuf. _____	Manuf. _____
Manuf. Date _____	Manuf. Date _____
Volt Rating _____	Volt Rating _____
Insul. Type _____	Insul. Type _____
Insul. Size _____	Insul. Size _____
Cond. Size/Type _____	Cond. Size/Type _____
Quantity in Feet _____	Quantity in Feet _____

CALL BEFORE YOU DIG!

LOCATE CALL CENTER OF ALASKA (LCCA)

ANCHORAGE AREA.....	278-3121
STATEWIDE.....	800-478-3121
AT&T ALASCOM INC.....	264-8465
ALASKA RAILROAD UTILITIES.....	265-2457
ALYESKA CABLE TV (GIRDWOOD).....	783-2982
KULIS AIR BASE.....	249-1499
MILITARY PETROLEUM FUEL LINES.....	552-2334 OR 552-5342
STATE STORM DRAINS & STREET LIGHTS.....	333-2411

CONSTRUCTION LEGEND

NEW	EXISTING

R.O.W. LEGEND

	R.O.W. LINE
	CENTERLINE OF TRENCH

UNLESS OTHERWISE NOTED
CHUGACH FACILITIES WILL BE
INSTALLED AS SHOWN BELOW

Typical Staking
N.T.S.

UNDERGROUND OVERHEAD

PROJECT: DEPOT DR. AK RAILROAD RELO - SOA 35KV				
DESIGNER/PROJECT ENGINEER: DTHORNTON				
W.O. #: E2114030				
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	REVIEWED (MGR/SUPV)/DATE	APPROVED (DIRECTOR)/DATE
0	ISSUED FOR REVIEW	DT 3/8/22	3/21/23	
1	ISSUED FOR FINAL	MS 3/10/23		

ENG. STAMP



Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

DRAWING NAME:

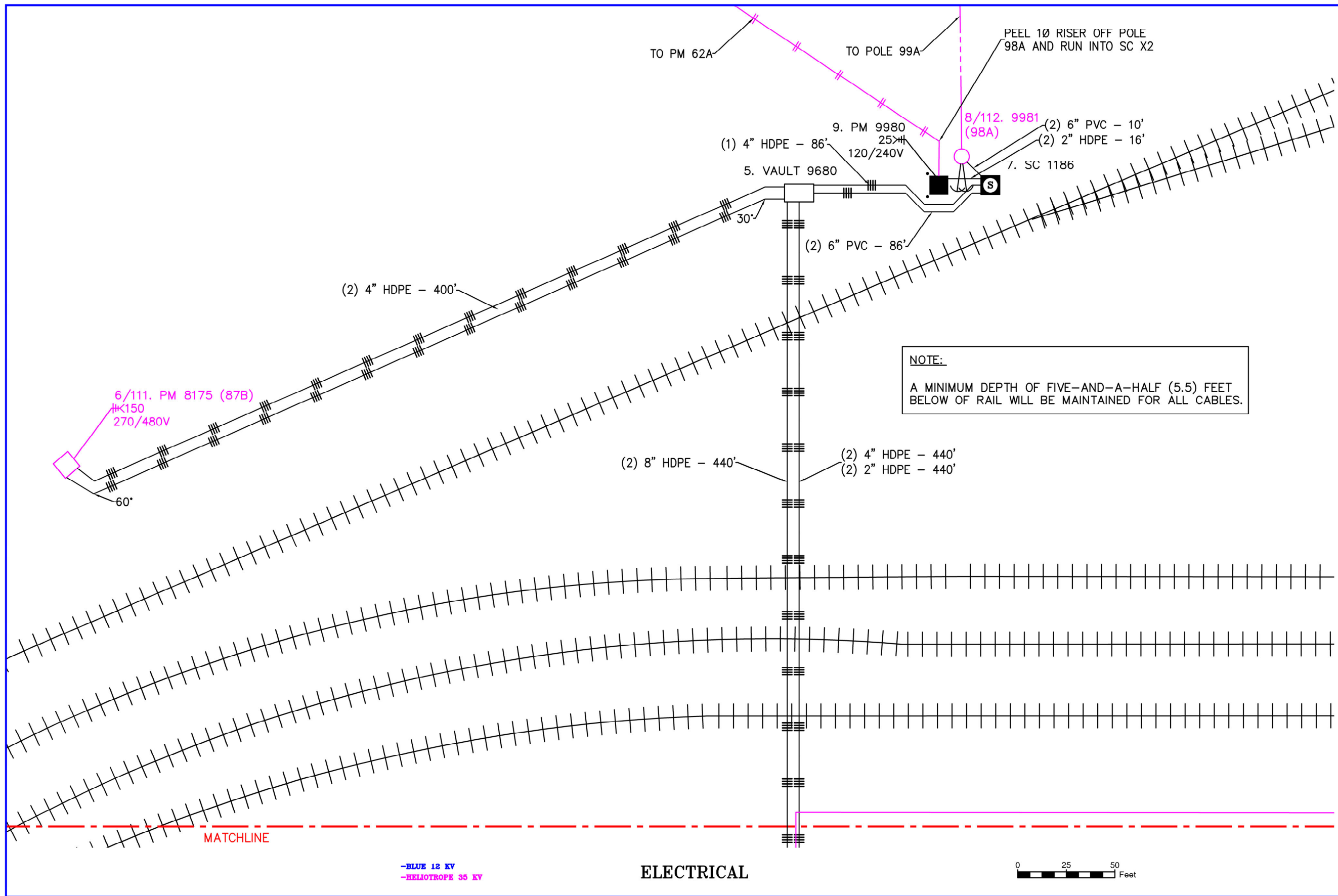
DEPOT DR. AK RAILROAD
RELOCATION OF OH 35 KV CIRCUIT
GRID: 1229B MAP: 1304-13A
FEEDER: BKR 630
ELECTRICAL INSTALL

J:\Design\E21\14030\WORKING\CAD\WORKING\E2114030_ELEC_ROW_PCD.dwg

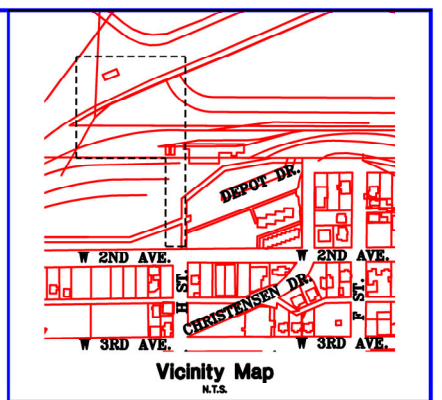
W.O. NO.:
C.W.P. REF. NO.

E2114030

SHEET 1 OF 10



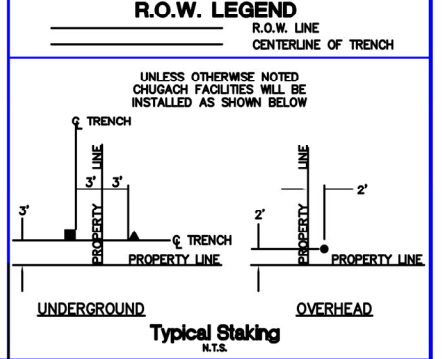
NOTE:
A MINIMUM DEPTH OF FIVE-AND-A-HALF (5.5) FEET BELOW OF RAIL WILL BE MAINTAINED FOR ALL CABLES.



CONDUCTOR DATA			
Manuf.	Manuf.	Manuf.	Manuf.
Manuf. Date	Manuf. Date	Manuf. Date	Manuf. Date
Volt Rating	Volt Rating	Volt Rating	Volt Rating
Insul. Type	Insul. Type	Insul. Type	Insul. Type
Insul. Size	Insul. Size	Insul. Size	Insul. Size
Cond. Size/Type	Cond. Size/Type	Cond. Size/Type	Cond. Size/Type
Quantity In Feet	Quantity In Feet	Quantity In Feet	Quantity In Feet

CALL BEFORE YOU DIGI	
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ALYESKA CABLE TV (GRDWOOD).....	783-2982
KULIS AIR BASE.....	249-1499
MILITARY PETROLEUM FUEL LINES.....	552-2334
	OR 552-5342
STATE STORM DRAINS & STREET LIGHTS.....	333-2411

CONSTRUCTION LEGEND	
NEW	EXISTING



PROJECT: DEPOT DR. AK RAILROAD RELO - SOA 35KV				
DESIGNER/PROJECT ENGINEER: DTHORNTON				
W.O. #: E2114030				
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	REVIEWED (MGR/SUPV)/DATE	APPROVED (DIRECTOR)/DATE
0	ISSUED FOR REVIEW	DT 3/8/22	3/21/23	
1	ISSUED FOR FINAL	MS 3/10/23		

ENG. STAMP

Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

DRAWING NAME:

DEPOT DR. AK RAILROAD
RELOCATION OF OH 35 KV CIRCUIT
GRID: 1229B MAP: 1304-13A
FEEDER: BKR 630
ELECTRICAL INSTALL

W.O. NO.:
C.W.P. REF. NO.:

E2114030

SHEET 2 OF 10

MATCHLINE

Alaska Railroad Reserve
Additional Terminal Reserve

2/104. PM 0565 (17B)

3. VAULT 9664

103. 96M

102/105. 96L

101. 96I

100. 9956 (96H)

SC 61

1/4. SC 1187

JB 12

SC 3500

96Z

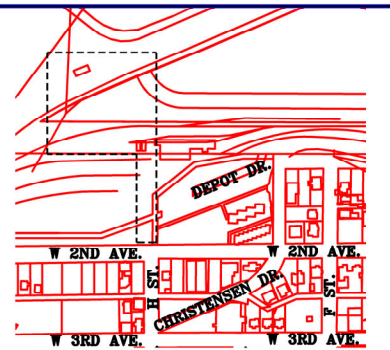
96B

96D

RIGHT OF WAY

-BLUE 12 KV
-HELIOTROPE 35 KV

0 25 50 Feet



Vicinity Map
N.T.S.

CONDUCTOR DATA

Manuf.	Manuf.
Manuf. Date	Manuf. Date
Volt Rating	Volt Rating
Insul. Type	Insul. Type
Insul. Size	Insul. Size
Cond. Size/Type	Cond. Size/Type
Quantity in Feet	Quantity in Feet
Manuf.	Manuf.
Manuf. Date	Manuf. Date
Volt Rating	Volt Rating
Insul. Type	Insul. Type
Insul. Size	Insul. Size
Cond. Size/Type	Cond. Size/Type
Quantity in Feet	Quantity in Feet

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OR 552-5342
STATE STORM DRAINS & STREET LIGHTS..... 333-2411

CONSTRUCTION LEGEND

NEW	EXISTING

R.O.W. LEGEND

R.O.W. LINE	CENTERLINE OF TRENCH
UNDERGROUND	OVERHEAD
Typical Staking N.T.S.	

PROJECT: DEPOT DR. AK RAILROAD RELO - SOA 35KV				
DESIGNER/PROJECT ENGINEER: DTHORNTON				
W.O. #: E2114030				
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	REVIEWED (MGR/SUPV)/DATE	APPROVED (DIRECTOR)/DATE
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1	ISSUED FOR FINAL	MS 3/10/23		

ENG. STAMP



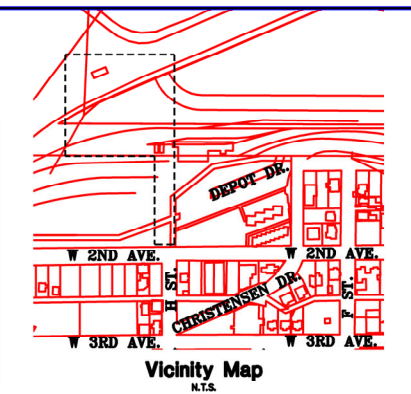
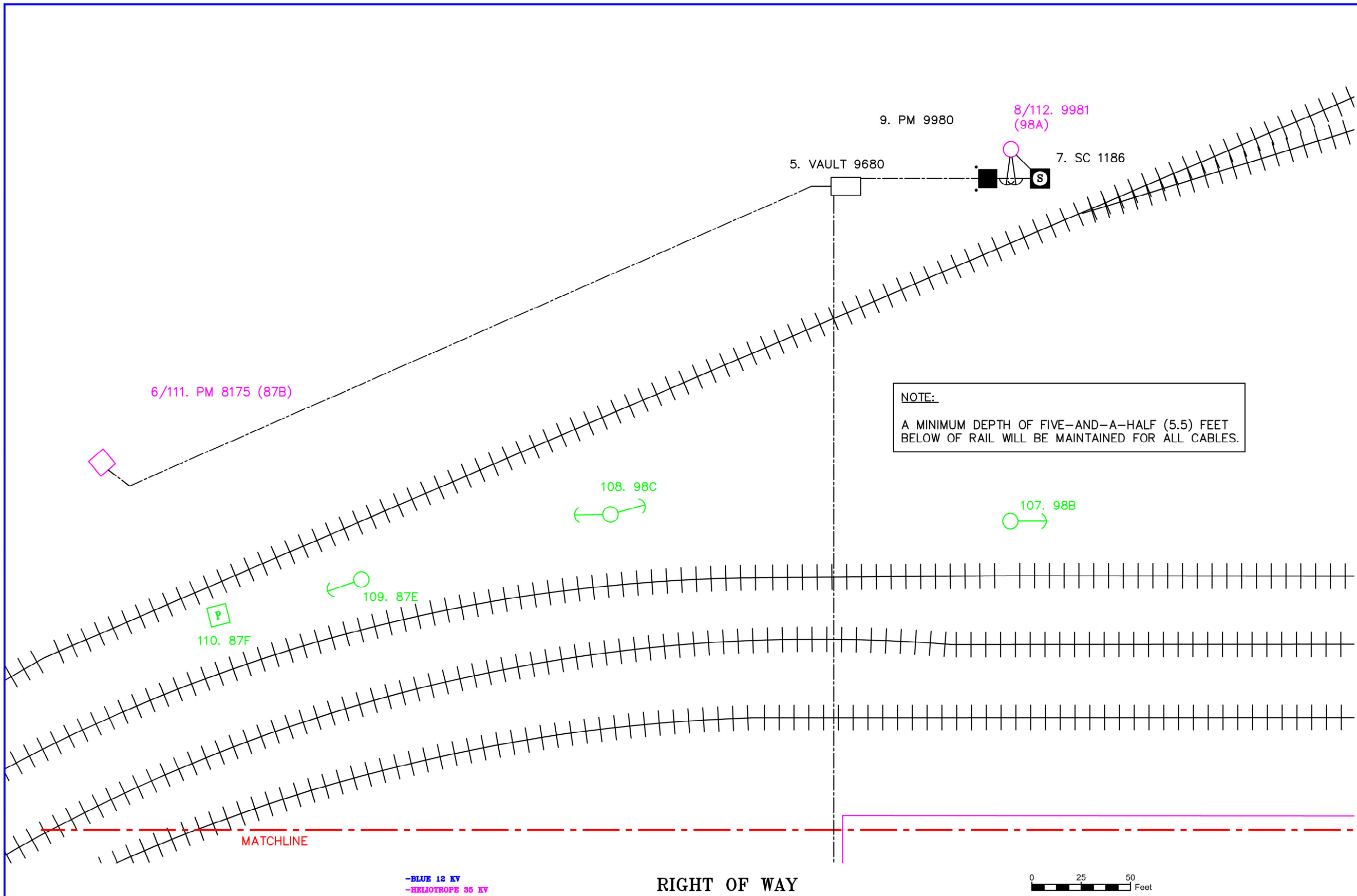
Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

DRAWING NAME:

DEPOT DR. AK RAILROAD
RELOCATION OF OH 35 KV CIRCUIT
GRID: 1229B MAP: 1304-13A
FEEDER: BKR 630
RIGHT OF WAY

W.O. NO.:
C.W.P. REF. NO.:

E2114030
SHEET 3 OF 10



CONDUCTOR DATA			
Manuf.	Manuf. Date	Manuf.	Manuf. Date
Volt Rating	Volt Rating	Volt Rating	Volt Rating
Insul. Type	Insul. Type	Insul. Type	Insul. Type
Insul. Size	Insul. Size	Insul. Size	Insul. Size
Cond. Size/Type	Cond. Size/Type	Cond. Size/Type	Cond. Size/Type
Quantity in Feet	Quantity in Feet	Quantity in Feet	Quantity in Feet

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STATEWIDE	800-478-3121
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	OR 552-5342
STATE STORM DRAINS & STREET LIGHTS	333-2411

CONSTRUCTION LEGEND	
NEW	EXISTING

R.O.W. LEGEND	
	R.O.W. LINE
	CENTERLINE OF TRENCH

UNLESS OTHERWISE NOTED
CHUGACH FACILITIES WILL BE
INSTALLED AS SHOWN BELOW

	TRENCH
	PROPERTY LINE
	UNDERGROUND
	OVERHEAD

Typical Staking
N.T.S.

PROJECT: DEPOT DR. AK RAILROAD RELO - SOA 35KV				
DESIGNER/PROJECT ENGINEER: DTHORNTON				
W.O. #: E2114030				
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	REVIEWED (MGR/SUPV)/DATE	APPROVED (DIRECTOR)/DATE
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ENG. STAMP

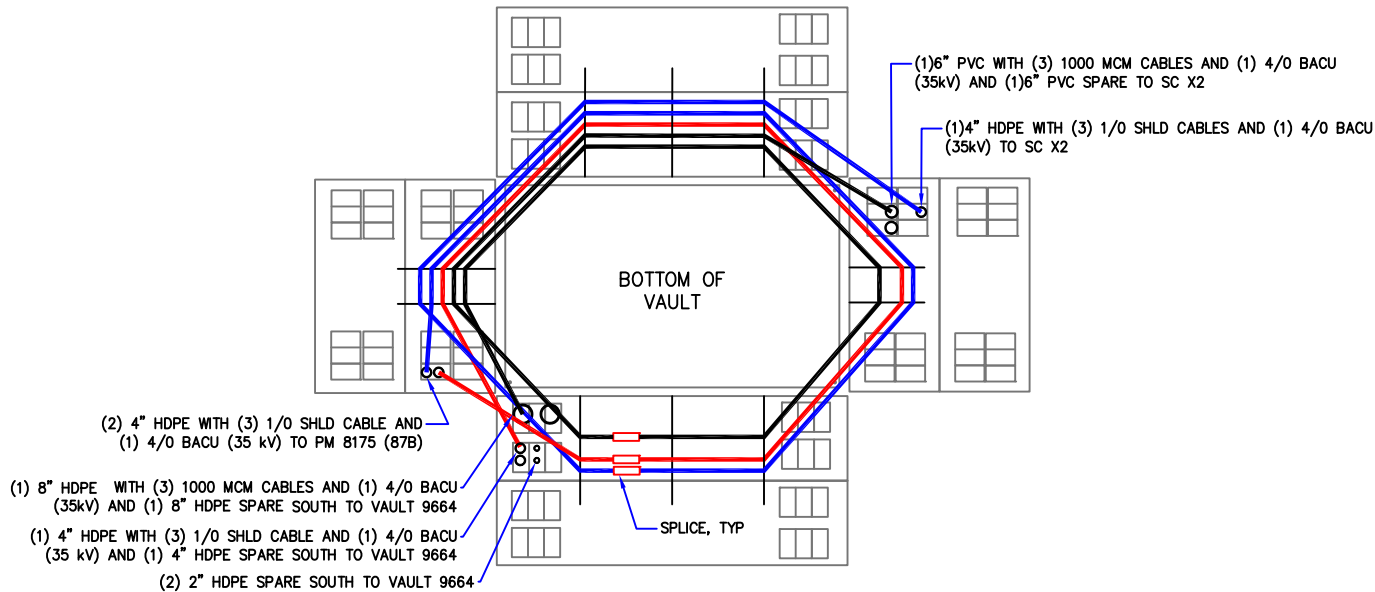
Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

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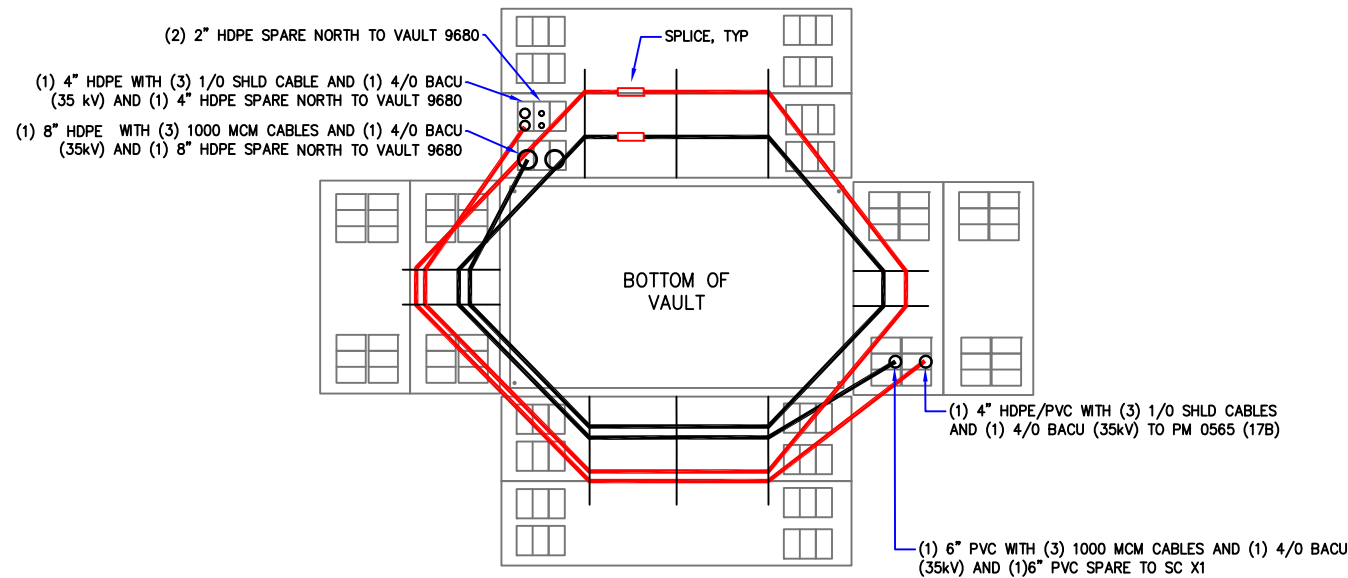
DEPOT DR. AK RAILROAD
RELOCATION OF OH 35 KV CIRCUIT
GRID: 1229B MAP: 1304-13A
FEEDER: BKR 630
RIGHT OF WAY

W.O. NO.:
C.W.P. REF. NO.: E2114030

SHEET 4 OF 10



VAULT 9680
SUMH-814

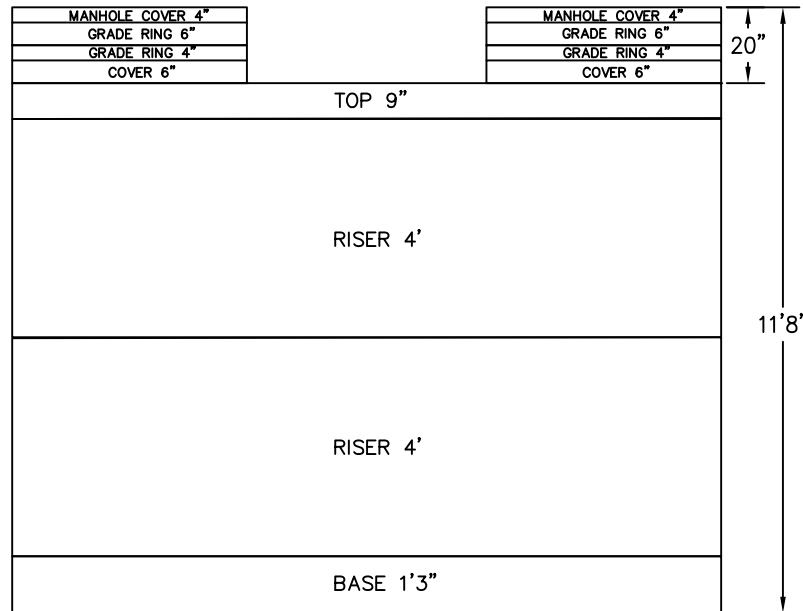


VAULT 9664
SUMH-814

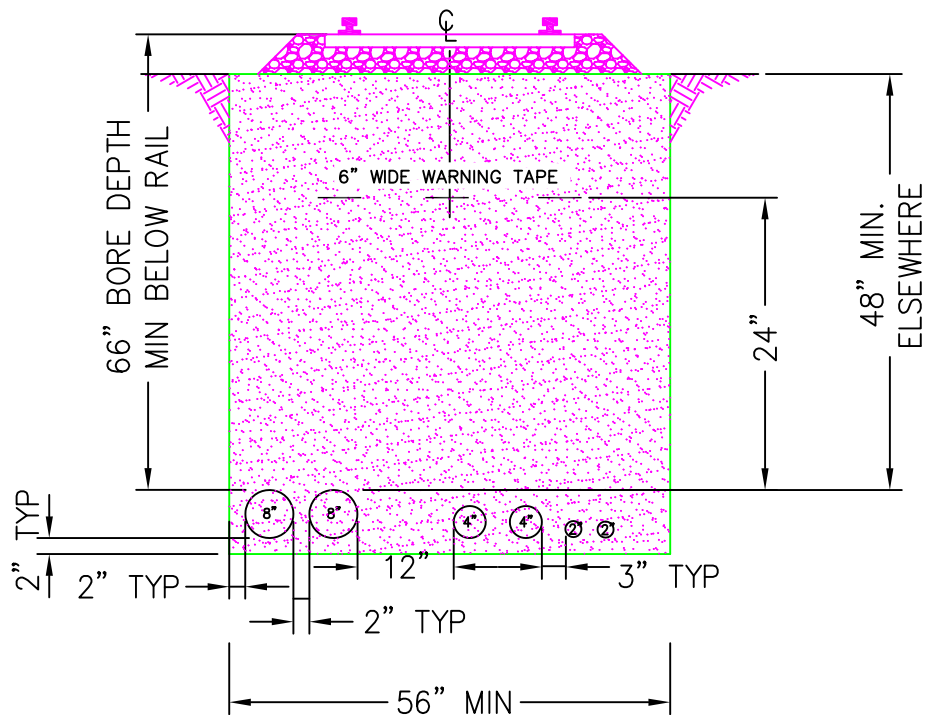
VAULT DIAGRAMS

VAULT INSTALLATION NOTES:

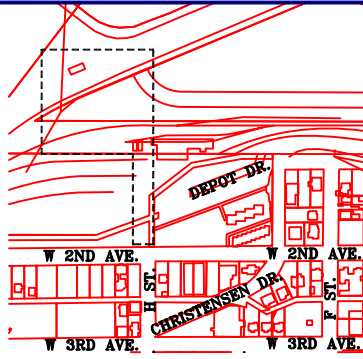
1. INSTALL TO A MIN. DEPTH OF 18 IN. TO THE TOP OF THE VAULT TO ALLOW FOR FUTURE LOWER-GRADE ADJUSTMENTS, THE MANHOLE RING AND COVER SHALL BE MOUNTED FLUSH WITH THE EXISTING GRADE.
2. COMPACT THE MANHOLE VAULT FOUNDATION TO A MIN. 95% PROCTOR DENSITY. A MIN. 6 IN. COURSE OF D-1 SHALL BE ADDED TO ALL FOUNDATIONS. WHERE THE IN-SITU MATERIALS ARE NOT SUITABLE FOR COMPACTION, THE FOUNDATION SHALL BE OVER-EXCAVATED TO ESTABLISH A SUITABLE FOUNDATION.
3. COMPACT THE BACKFILL IN 12IN. MAX. LIFTS. COMPACTION TO A MIN. 95% DENSITY IS REQUIRED.



VAULT 9664 & 9680
SUMH-814



TYPICAL TRENCH DETAIL



Vicinity Map
N.T.S.

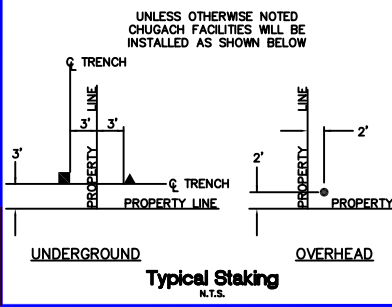
CONDUCTOR DATA			
Manuf.	Manuf.	Manuf.	Manuf.
Manuf. Date	Manuf. Date	Manuf. Date	Manuf. Date
Volt Rating	Volt Rating	Volt Rating	Volt Rating
Insul. Type	Insul. Type	Insul. Type	Insul. Type
Insul. Size	Insul. Size	Insul. Size	Insul. Size
Cond. Size/Type	Cond. Size/Type	Cond. Size/Type	Cond. Size/Type
Quantity in Feet	Quantity in Feet	Quantity in Feet	Quantity in Feet

CALL BEFORE YOU DIG!

LOCATE CALL CENTER OF ALASKA (LCCA)	
ANCHORAGE AREA.....	278-3121
STATEWIDE.....	800-478-3121
AT&T ALASCOM INC.....	264-8465
ALASKA RAILROAD UTILITIES.....	265-2457
ALYESKA CABLE TV (GIRDWOOD).....	783-2982
KULIS AIR BASE.....	249-1499
MILITARY PETROLEUM FUEL LINES.....	552-2334
	OR 552-5342
STATE STORM DRAINS & STREET LIGHTS.....	333-2411

CONSTRUCTION LEGEND	
NEW	EXISTING

R.O.W. LEGEND	
	R.O.W. LINE
	CENTERLINE OF TRENCH



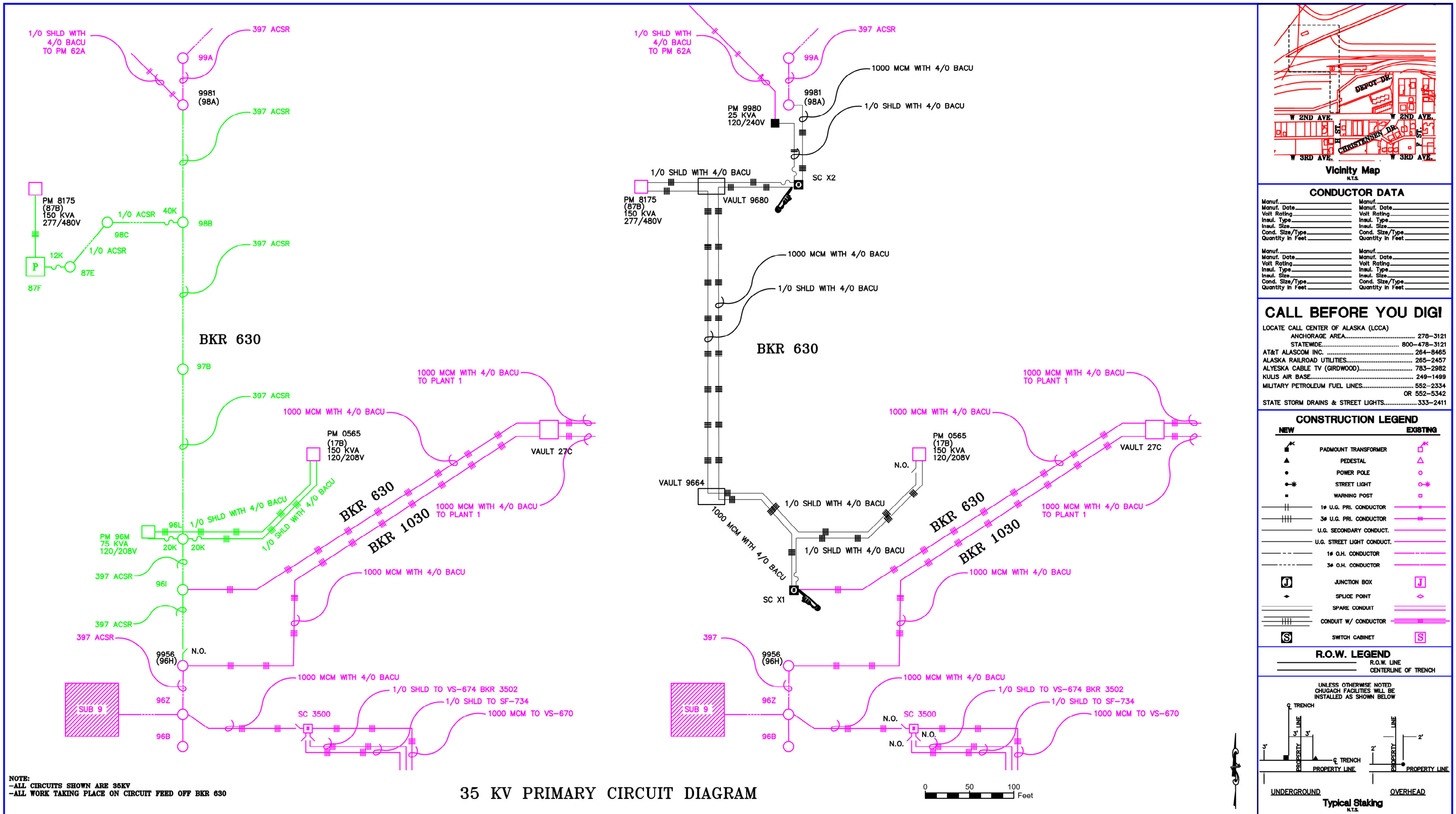
PROJECT: DEPOT DR. AK RAILROAD RELO - SOA 35KV				
DESIGNER/PROJECT ENGINEER: DTHORNTON				
W.O. #: E2114030				
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	REVIEWED (MGR/SUPV)/DATE	APPROVED (DIRECTOR)/DATE
0	ISSUED FOR REVIEW	DT 3/8/22	BQ 3/21/23	
1	ISSUED FOR FINAL	MS 3/10/23		

ENG. STAMP



Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

DRAWING NAME:	
DEPOT DR. AK RAILROAD RELOCATION OF OH 35 KV CIRCUIT GRID: 1229B MAP: 1304-13A FEEDER: BKR 630 VAULT DIAGRAMS J:\Design\E21\14030\WORKING\CAD\WORKING\E2114030_ELEC_ROW_PCD.dwg	
W.O. NO.:	E2114030
C.W.P. REF. NO.:	
SHEET 5 OF 10	



NOTE:
-ALL CIRCUITS SHOWN ARE 35KV
-ALL WORK TAKING PLACE ON CIRCUIT FEED OFF BKR 630

35 KV PRIMARY CIRCUIT DIAGRAM

PROJECT: DEPOT DR. AK RAILROAD RELO -- SOA 35KV				
DESIGNER/PROJECT ENGINEER: DTHORNTON				
W.O. #: E2114030				
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	REVIEWED (MGR/SUPV)/DATE	APPROVED (DIRECTOR)/DATE
0	ISSUED FOR REVIEW	DT 3/8/22	3/21/23	
1	ISSUED FOR FINAL	MS 3/10/23		

ENG. STAMP



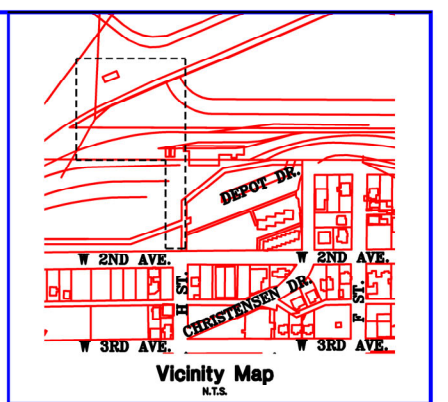
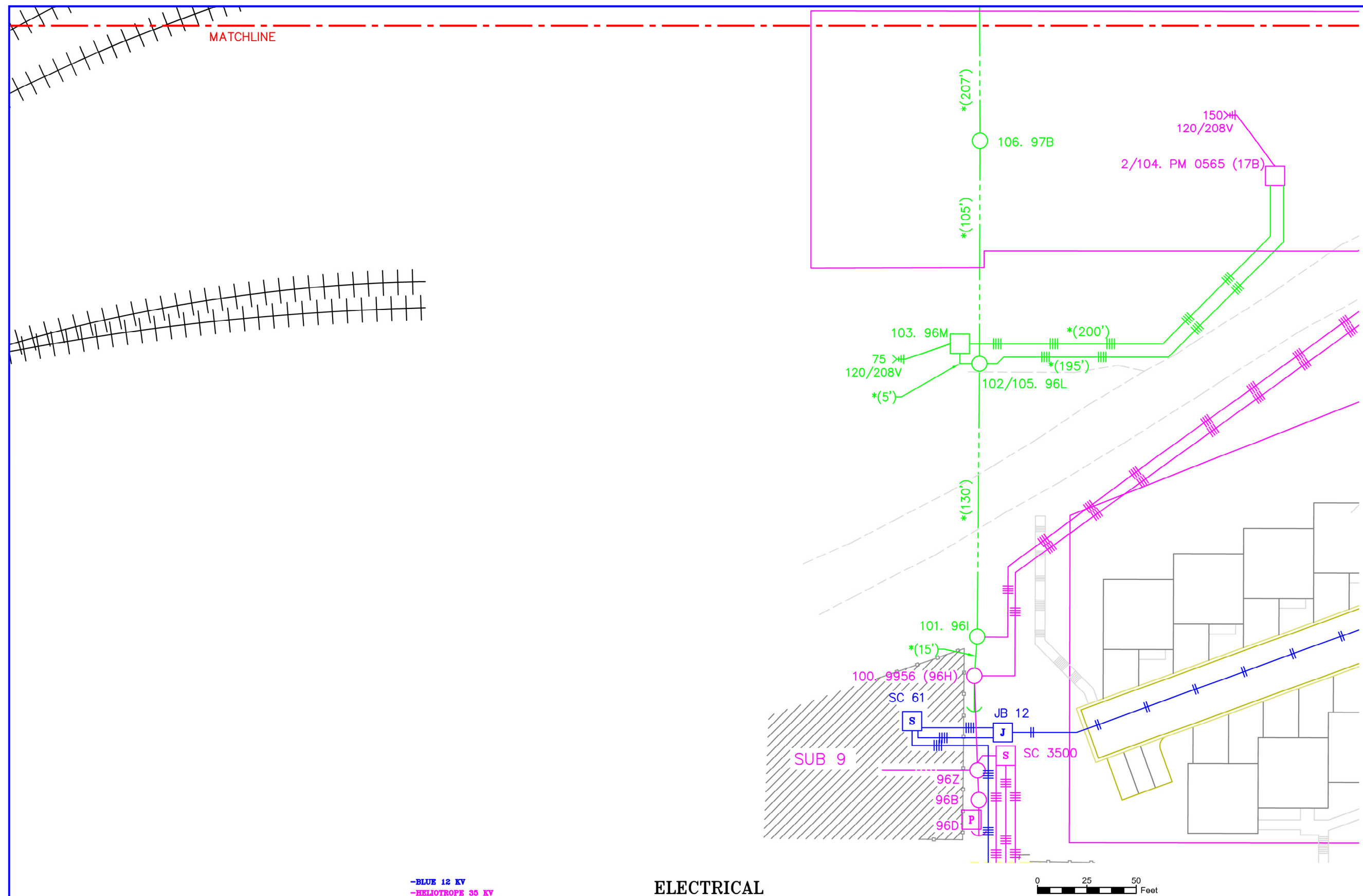
Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

DRAWING NAME:

**DEPOT DR. AK RAILROAD
RELOCATION OF OH 35 KV CIRCUIT
GRID: 1229B MAP: 1304-13A
FEEDER: BKR 630
PCD**

W.O. NO.:
C.W.P. REF. NO.:

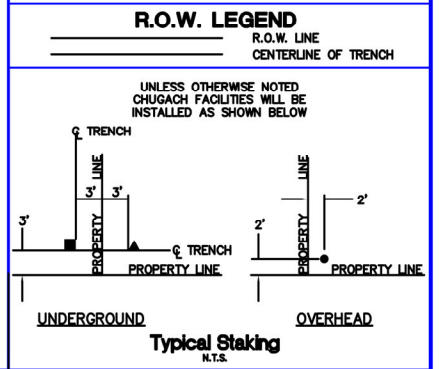
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E2114030
SHEET 6 OF 10



CONDUCTOR DATA			
Manuf.	Manuf. Date	Manuf.	Manuf. Date
Volt Rating	Volt Rating	Manuf.	Manuf. Date
Insul. Type	Insul. Type	Manuf.	Manuf. Date
Insul. Size	Insul. Size	Manuf.	Manuf. Date
Cond. Size/Type	Cond. Size/Type	Manuf.	Manuf. Date
Quantity in Feet	Quantity in Feet	Manuf.	Manuf. Date

CALL BEFORE YOU DIGI	
LOCATE CALL CENTER OF ALASKA (LCCA)	
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KULIS AIR BASE.....	249-1499
MILITARY PETROLEUM FUEL LINES.....	552-2334
	OR 552-5342
STATE STORM DRAINS & STREET LIGHTS.....	333-2411

CONSTRUCTION LEGEND	
NEW	EXISTING



PROJECT: DEPOT DR. AK RAILROAD RELO - SOA 35KV				
DESIGNER/PROJECT ENGINEER: DTHORNTON				
W.O. #: E2114030				
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	REVIEWED (MGR/SUPV)/DATE	APPROVED (DIRECTOR)/DATE
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1	ISSUED FOR FINAL	MS 3/10/23		

ENG. STAMP

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Anchorage, Alaska 99519-6300

DRAWING NAME:

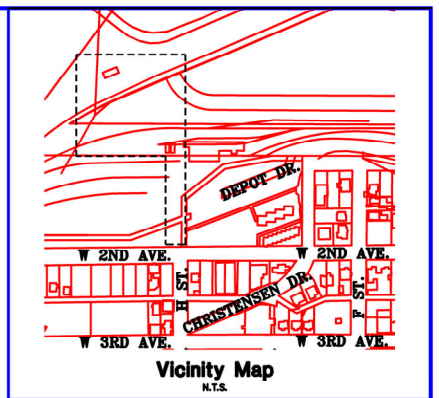
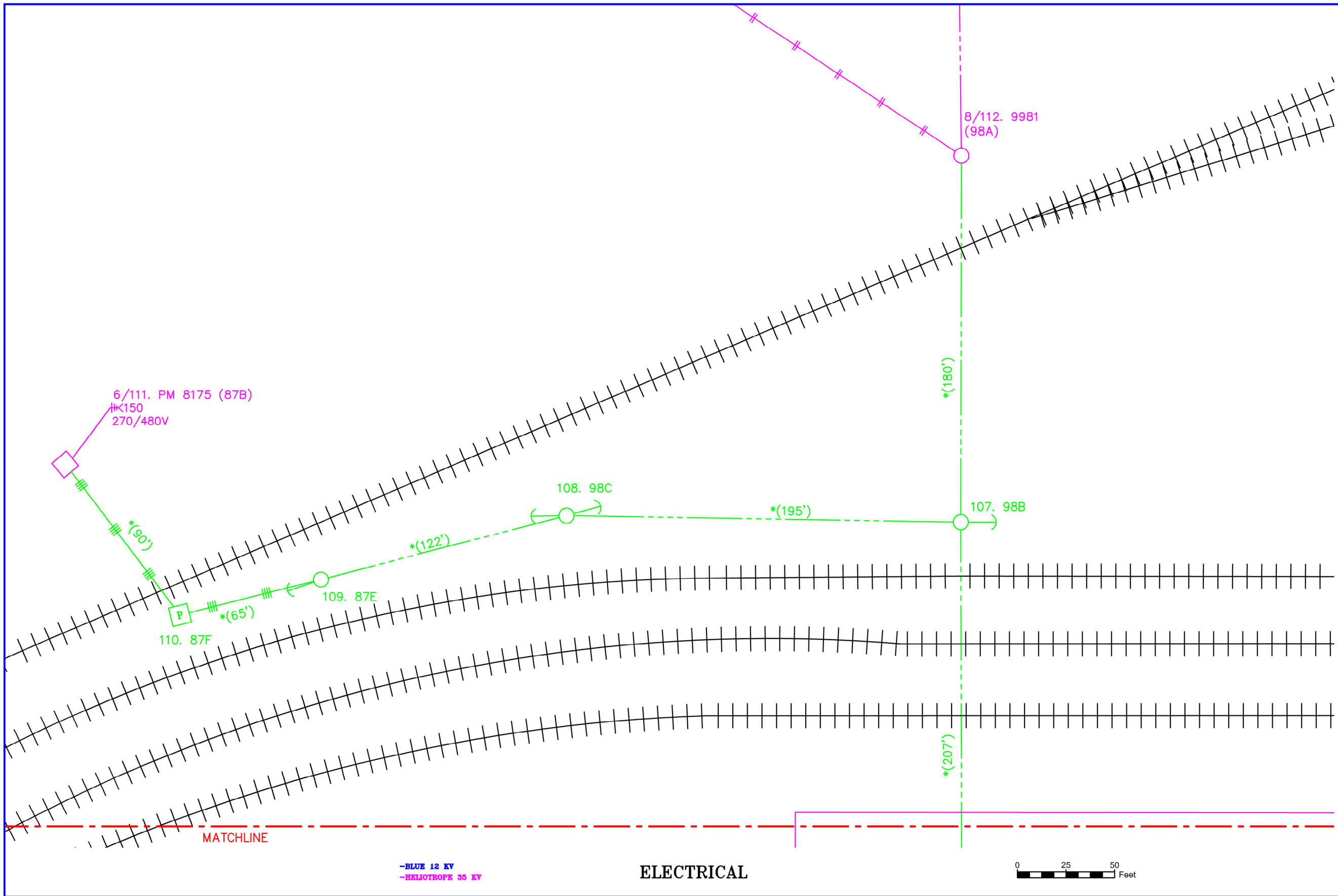
DEPOT DR. AK RAILROAD
RELOCATION OF OH 35 KV CIRCUIT
GRID: 1229B MAP: 1304-13A
FEEDER: BKR 630
ELECTRICAL DEMO

W.O. NO.:
C.W.P. REF. NO.: E2114030

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E2114030

SHEET 7 OF 10



CONDUCTOR DATA			
Manuf.	Manuf. Date	Manuf.	Manuf. Date
Volt Rating	Volt Rating	Manuf.	Manuf. Date
Insul. Type	Insul. Type	Manuf.	Manuf. Date
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Cond. Size/Type	Cond. Size/Type	Manuf.	Manuf. Date
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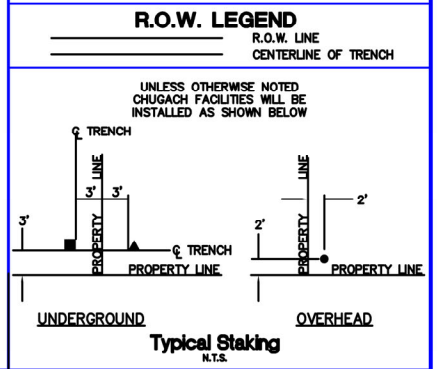
KULIS AIR BASE..... 249-1499

MILITARY PETROLEUM FUEL LINES..... 552-2334

OR 552-5342

STATE STORM DRAINS & STREET LIGHTS..... 333-2411

CONSTRUCTION LEGEND	
NEW	EXISTING



PROJECT: DEPOT DR. AK RAILROAD RELO - SOA 35KV				
DESIGNER/PROJECT ENGINEER: DTHORNTON				
W.O. #: E2114030				
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ENG. STAMP

Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
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DRAWING NAME:

DEPOT DR. AK RAILROAD
RELOCATION OF OH 35 KV CIRCUIT
GRID: 1229B MAP: 1304-13A
FEEDER: BKR 630
ELECTRICAL DEMO

W.O. NO.: E2114030
C.W.P. REF. NO.: E2114030

SHEET 8 OF 10

VISTA

422.11

SC 1186

Serial Number:

Notes:

DIRECTION
(Reference
to North)

Revised Date:

Manufactured Date:

Revised WO/JO:

Status:

Status:

Switch #:

14902

Switch #:

14903

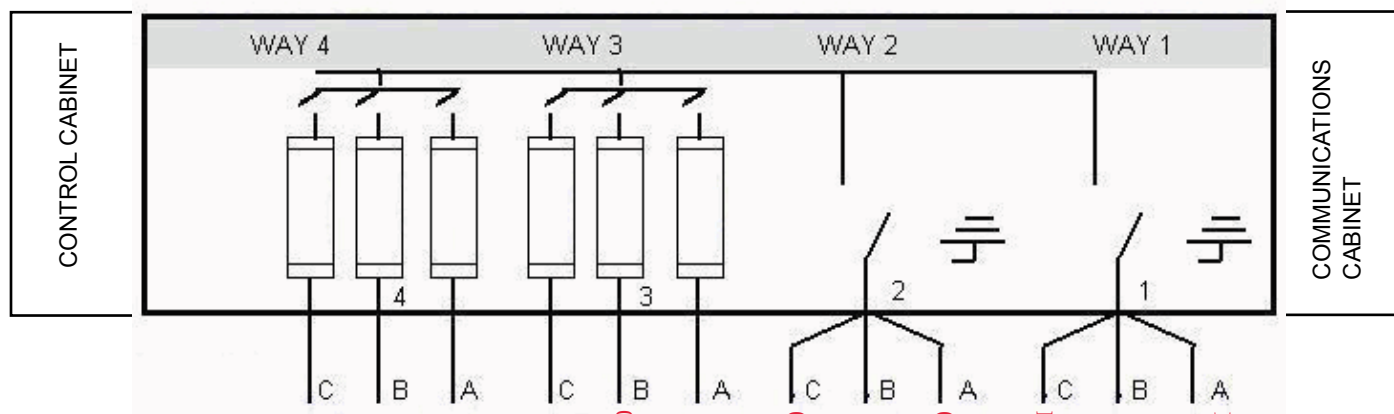
Status:

CLOSED

Status:

CLOSED

OPERATOR
SIDE



CABLE CONNECTION
SIDE

TO:

CONDUCTOR
SIZE:

1/0 SHLD WEST TO PM 8175 (87B)
THROUGH VAULT 9680

1/0 SHLD WEST TO PM 8175 (87B)
THROUGH VAULT 9680

1/0 SHLD WEST TO PM 8175 (87B)
THROUGH VAULT 9680

1/0 SHLD WEST TO PM 9980

1000 SHLD NORTH TO POLE 9981 (98A)

1000 SHLD NORTH TO POLE 9981 (98A)

1000 SHLD NORTH TO POLE 9981 (98A)

1000 SHLD SOUTH TO SC X1 THROUGH
VAULT 9680 AND 9664

1000 SHLD SOUTH TO SC X1 THROUGH
VAULT 9680 AND 9664

1000 SHLD SOUTH TO SC X1 THROUGH
VAULT 9680 AND 9664



LOCATION

SOUTH OF SMALL BOAT LAUNCH ROAD IN
ARR PROPERTY

Grid Map Location No.:

1229 — 9980

Inspected by:

Install Date:

Install Work

Order ID:

E2114030

Feeder:

BKR 630

Manufacturer:
VISTA

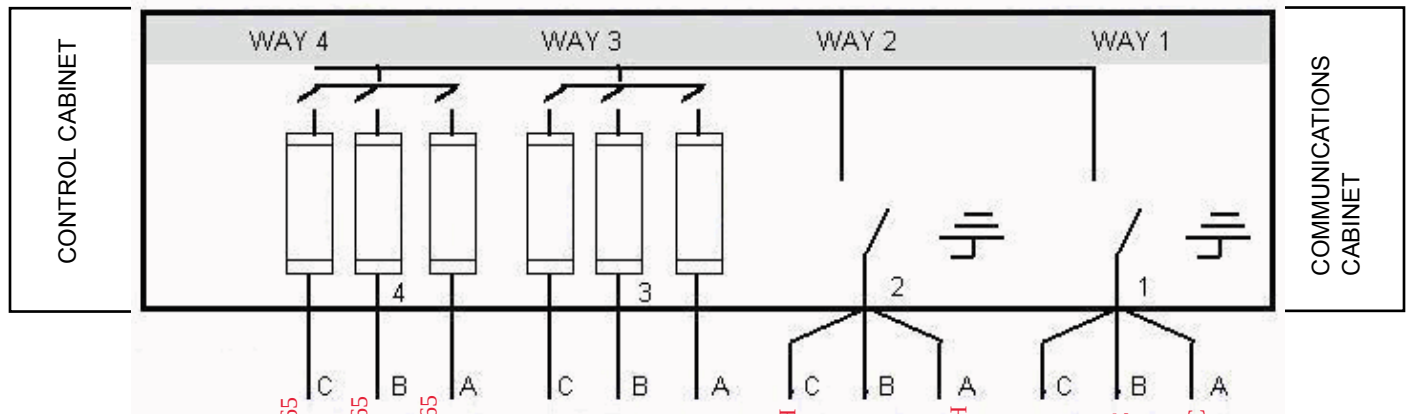
Model:
422.11

SC 1187

Serial Number: _____	Notes: _____	DIRECTION (Reference to North)	Revised Date: _____
Manufactured Date: _____			Revised WO/JO: _____

Status: _____	Status: _____	Switch #: 14904	Switch #: 14905
		Status: CLOSED	Status: CLOSED

OPERATOR
SIDE



CABLE CONNECTION
SIDE

TO:

CONDUCTOR
SIZE:

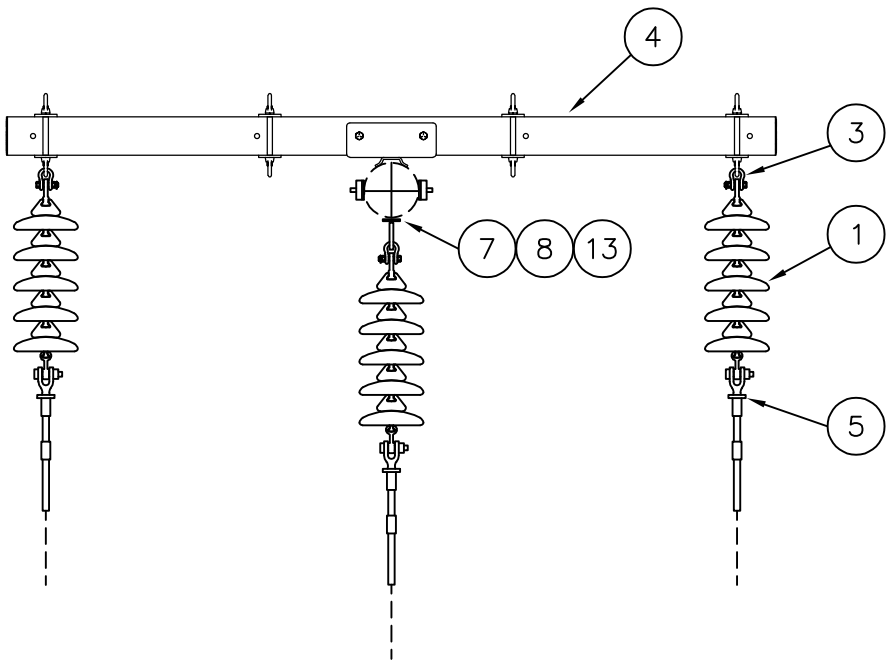
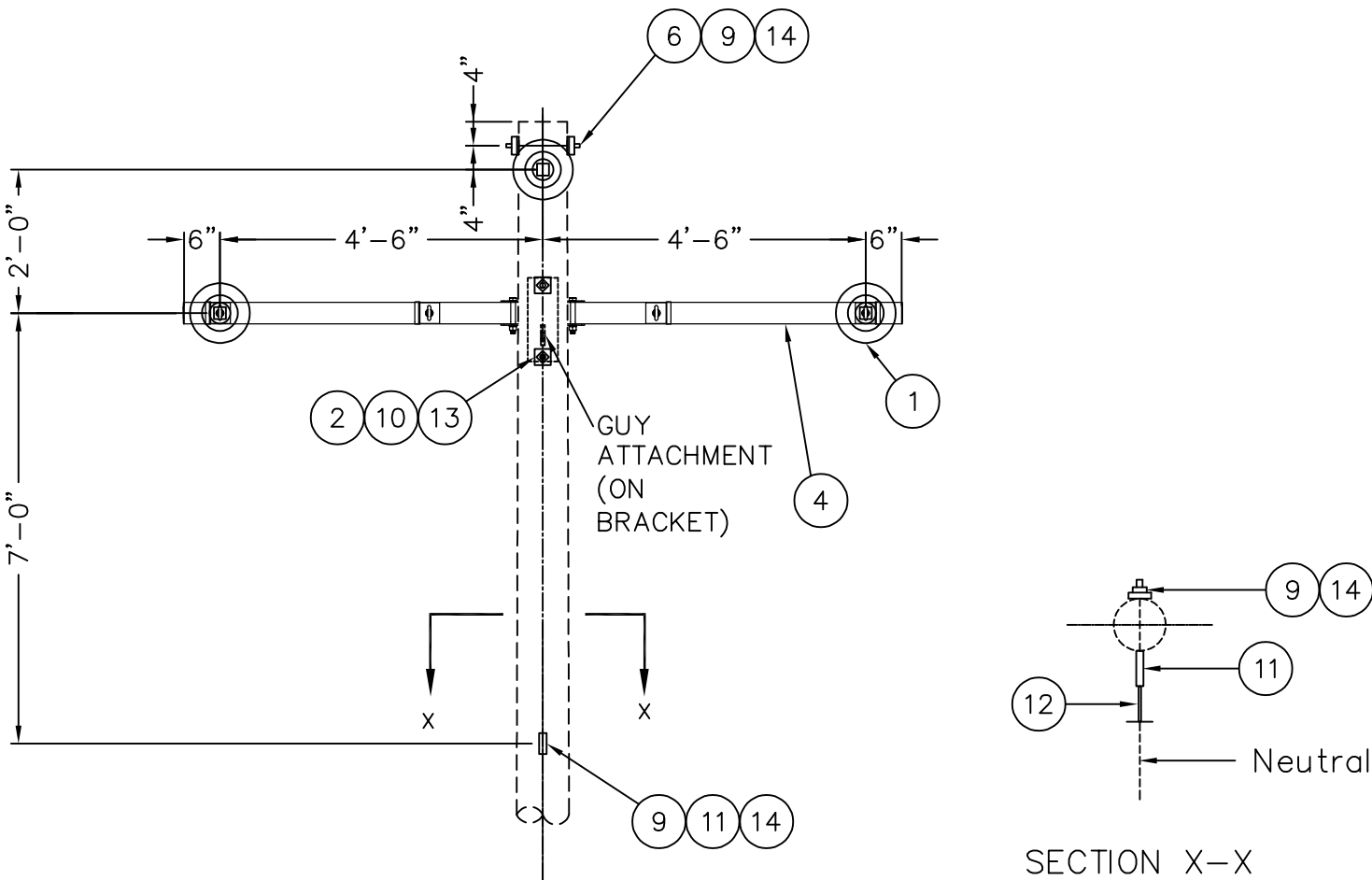
1/0 SHLD NORTH THEN EAST TO PM 0565
1/0 SHLD NORTH THEN EAST TO PM 0565
1/0 SHLD NORTH THEN EAST TO PM 0565

1000 SHLD NORTH TO SC X2 THROUGH
VAULT 9664 AND 9680
1000 SHLD NORTH TO SC X2 THROUGH
VAULT 9664 AND 9680
1000 SHLD NORTH TO SC X2 THROUGH
VAULT 9664 AND 9680
1000 SHLD EAST TO VAULT 27C
1000 SHLD EAST TO VAULT 27C
1000 SHLD EAST TO VAULT 27C



LOCATION
NORTH OF SC 3500.
.....
.....
.....
Grid Map Location No.: 1229 — 9957

Inspected by: _____
Install Date: _____
Install Work
Order ID: E2114030
Feeder: BKR 630



MATERIAL LIST			
Item	Quantity	CEA	Description
	SZC7A	Part Number	
1	3	M7510	INSULATOR, DEAD END, POLYMER, 35KV
2	2	—	BOLT, MACHINE, 3/4" X REQ'D LENGTH
3	3	—	SHACKLE, ANCHOR, 3/4"
4	1	M13300	FIBERGLASS CROSSARM ASSEMBLY & MTG. HARDWARE
5	3	M5770	COMPRESSION DEADEND, SINGLE TONGUE, 397 ACSR "IBIS"
6	1	—	BOLT, MACHINE, 5/8" X REQ'D LENGTH
7	1	—	BOLT, OVAL EYE, 3/4" X REQ'D LENGTH
8	1	—	WASHER, CURVED, 4" SQ. X 3/8", 13/16" HOLE
9	2	—	WASHER, CURVED, 2 1/4" SQ. X 3/16", 11/16" HOLE
10	2	—	WASHER, CURVED, 2 1/4" SQ. X 3/16", 13/16" HOLE
11	1	—	BOLT, OVAL EYE, 5/8" X REQUIRED LENGTH
12	1	M5770	DEADEND ASSEMBLY, NEUTRAL
13	AR	—	LOCKNUTS, 3/4"
14	AR	—	LOCKNUTS, 5/8"

NOTE:
1. MAXIMUM DESIGN LOADS BASED ON NESC HEAVY LOADING. THERE IS AN
LOAD FACTOR OF 1.65 ASSUMED WITH WIRE TENSION.

MAX. LOAD	
STRUCTURE	WIRE TENSION
SZC7A	7120 lbs.
LIMITED	CROSSARM



Electric Power Systems
Consulting Engineers
3305 ARCTIC BLVD, STE 201, ANCHORAGE, AK 99503
TEL: (907) 522-1953
CERTIFICATE OF AUTHORIZATION: AECC 738

PROJECT: 35kV DISTRIBUTION CONSTRUCTION UNITS				
DESIGNER/PROJECT ENGINEER: MATT WILLIAMS W.O. #: _____				
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	REVIEWED (MGR/SUPV)/DATE	APPROVED (DIRECTOR)/DATE
0	ISSUED FOR CONSTRUCTION	MAP/03-07-23	MSW/03-07-23	3/21/23



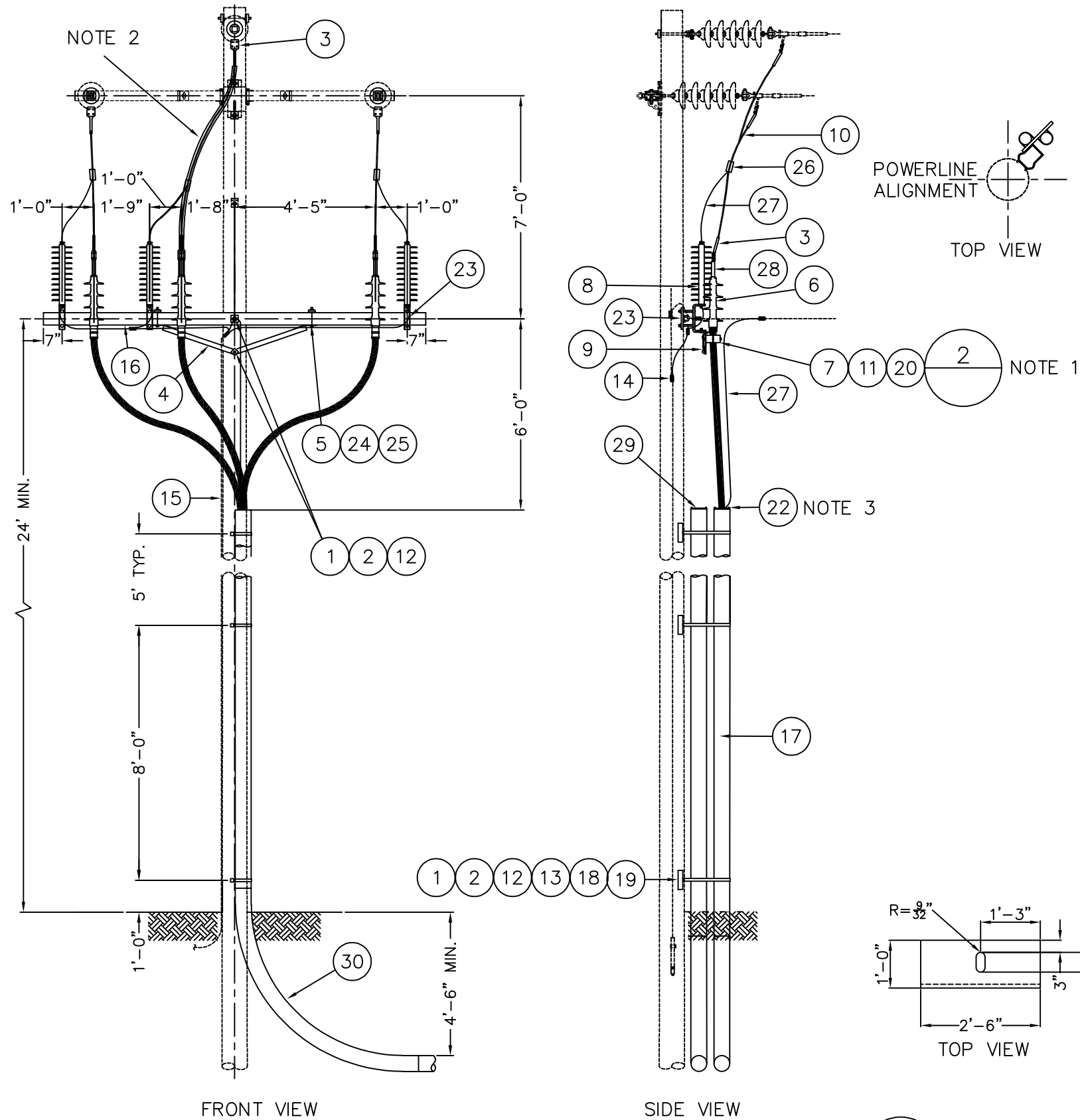
Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

DRAWING NAME:
**34.5 kV
SZC7A
CROSSARM CONSTRUCTION
DEADEND (SINGLE)**

W.O. NO.:
C.W.P. REF. NO.:

SHEET **1** OF **1**

SZC7A.DWG



SZUC3 RISER ASSEMBLY
NTS

CABLE BRACKET MOUNTING PLATE
NTS

MATERIAL LIST				
Item	Quantity		CEA Part Number	Description
	SZUC3	SZUC3L		
1	7	8	—	BOLT, MACHINE, 5/8" x REQ'D LENGTH
2	AR	AR	—	LOCKNUT, 5/8"
3	6	6	M52570	COMPRESSION TERMINAL CONNECTOR, 397kcmil ACSR W/BOLTS
4	1	1	M13640	BRACE, CROSS ARM, STEEL 18" DROP, 60" SPAN
5	AR	AR	—	LOCKNUT, 1/2"
6	3	3	M35590	TERMINATION, 35kV, OUTDOOR, FOR 1000 MCM CU JCN CONDUCTOR
7	3	3	15860	CABLE SUPPORT BRACKET WITH BOLTS
8	3	3	18950	SURGE ARRESTOR, 35kV, OUTDOOR
9	3	3	—	BRONZE GROUNDING CLAMP, FLAT TO CABLE FOR #4 SOL-300 MCM COPPER WIRE
10	AR	AR	M2390	JUMPER, 397 ACSR
11	3	3	18949	CABLE BRACKET MOUNTING PLATE (FABRICATED)
12	7	8	—	WASHER, 2-1/4" SQUARE, WITH 11/16" HOLE
13	5	6	—	SCREW, LAG, 1/2 x 4"
14	AR	AR	—	CONNECTOR, COMPRESSION, #2 BARE COPPER, SOLID
15	AR	AR	—	STAPLE
16	1	1	—	CROSSARM, 4-5/8" x 5-5/8" x 12'-0" (CONTRACTOR SUPPLIED)
17	25'	35'	19880	FIBERGLASS CONDUIT, 6", HEAVY WALL
18	10	14	M46180	STRAP, CONDUIT
19	5	7	M46130	BRACKET, STAND-OFF, 24" LONG
20	3	3	—	CABLE, TAG
21	AR	AR	M1160	#2 BARE COPPER, SOLID
22	1	1	—	DUXSEAL
23	6	6	—	BRACKET, CROSSARM, NEMA B
24	2	2	—	BOLT, MACHINE, 1/2" x REQ'D LENGTH
25	2	2	—	WASHER, ROUND, 9/16" HOLE 1 3/8"Ø
26	AR	AR	—	H-TAP 397 ACSR TO 4/0 COPPER
27	AR	AR	M1180	#4/0 BARE STRANDED COPPER
28	3	3	M52580	COMPRESSION TERMINAL, BIMETALLIC, NEMA 4 HOLE FOR 1000 MCM COPPER CABLE
29	1	1	—	THERMOPLASTIC CAPPLUG, 6" IPS
30	2	2	4173	FIBERGLASS SWEEP, HEAVY WALL, 6", 90°, 60" RADIUS

- NOTES:
- TAG TERMINATIONS PER STAG-2
 - WRAP TOP OF TERMINATION AND LOWER 36" OF JUMPER AND ARRESTOR LEAD WITH FUSABLE TAPE (CENTER PHASE ONLY)
 - SEAL TOP OF CONDUIT WITH DUXSEAL OR EQUIVALENT



34.5 kV
SZUC3
THREE PHASE RISER
TERMINAL POLE

W.O. NO.:
C.W.P. REF. NO.:

SZUC3.DWG
SHEET 1 OF 1

PROJECT: 35kV DISTRIBUTION CONSTRUCTION UNITS				
DESIGNER/PROJECT ENGINEER: MATT WILLIAMS				
W.O. #:				
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	REVIEWED (MGR/SUPV)/DATE	APPROVED (DIRECTOR)/DATE
0	ISSUED FOR CONSTRUCTION	MAP/03-07-23	MSW/03-07-23	3/21/23



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Anchorage, Alaska 99519-6300