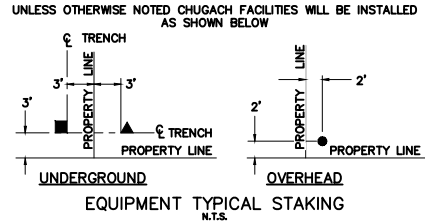


VICINITY KEY MAP
N.T.S.

NEW	EXISTING	DESC.
		VAULT
		JUNCTION BOX
		SWITCH CABINET
		PULLBOX
		PADMOUNT XFMR
		FUSED JUNCTION BOX
		PRIMARY METER
		HANDHOLE
		PEDESTAL
		NON-CEA POLE
		POLE
		LIGHT
		DOWN GUY
		FUSE
		SPLICE POINT
		1Ø OH XFMR
		DELTA OH XFMR
		3Ø OH XFMR
		FIBER OPTIC
		O.H. XMSSN
		U.G. XMSSN
		SPAN GUY
		CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
		U.G. SECONDARY
		U.G. SERVICE
		1Ø O.H. PRIMARY
		2Ø O.H. PRIMARY
		3Ø O.H. PRIMARY
		R.O.W. EASEMENT LINE
		CENTERLINE OF TRENCH

COLOR LEGEND

	NEW
	REFERENCE
	EXISTING
	RETIRE
	ABANDON



VICINITY MAP

PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	<i>Jm</i> 6/15/26

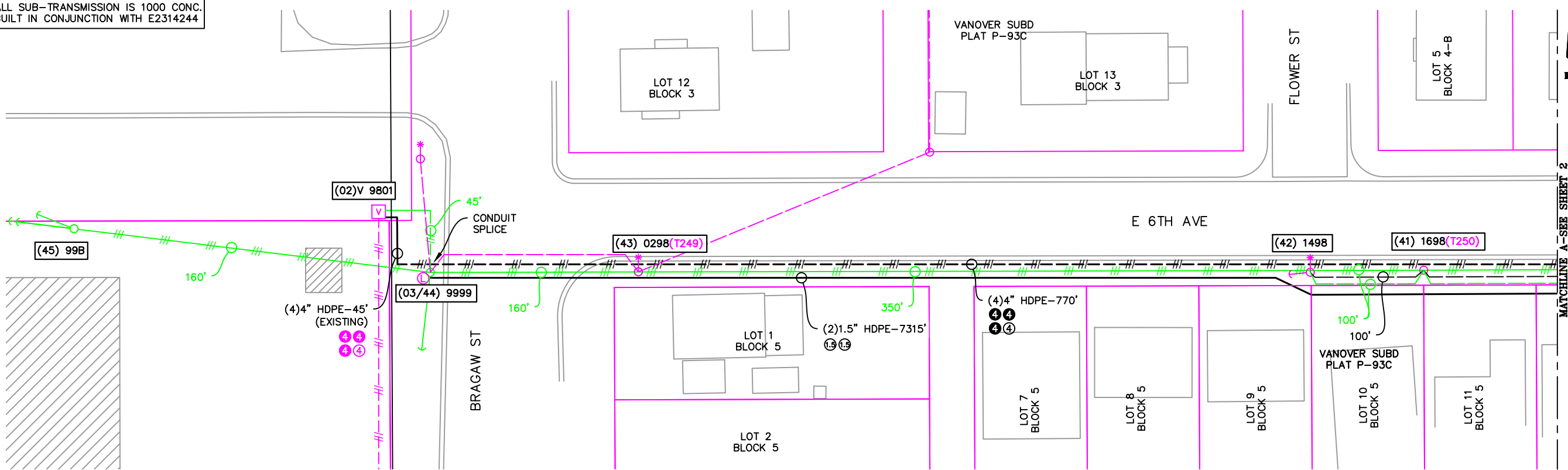
ENG. STAMP



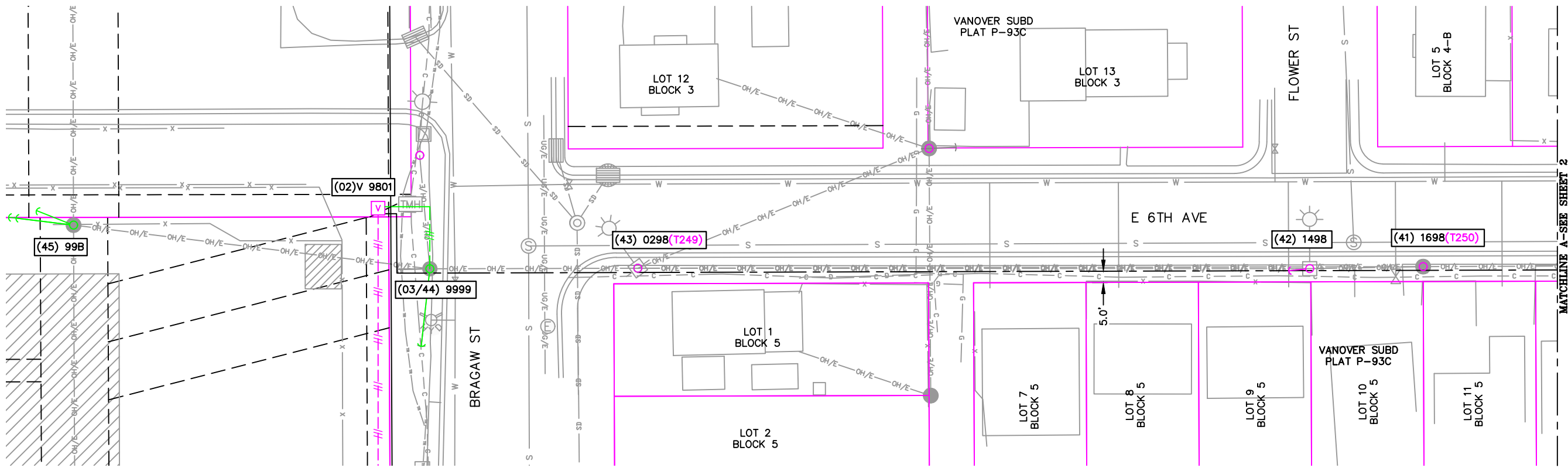
Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

DRAWING NAME:	34.5kV SUBTRANSMISSION BRAGAW TO E.6TH PLAN, PROFILE, & ROW STRUCTURE 9999 TO STRUCTURE 6999 GRIDS: 1236, 1237, 1238, 1336, 1337, 1338
W.O. NO.:	E2320073
E2320073.dwg	PAGE 0 OF 24

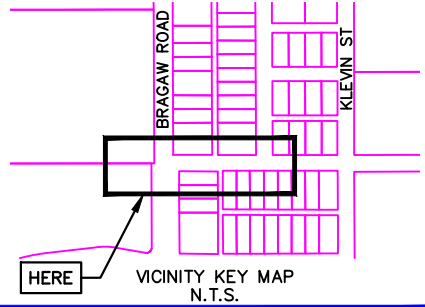
NOTES:
 -ALL SUB-TRANSMISSION IS 1000 CONC.
 -BUILT IN CONJUNCTION WITH E2314244



ELECTRICAL

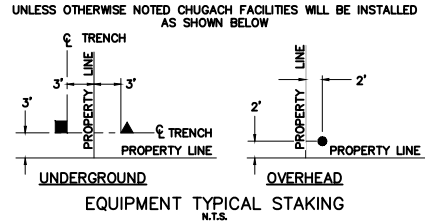


ROW



NEW	EXISTING	DESC.
[Symbol]	[Symbol]	VAULT
[Symbol]	[Symbol]	JUNCTION BOX
[Symbol]	[Symbol]	SWITCH CABINET
[Symbol]	[Symbol]	PULLBOX
[Symbol]	[Symbol]	PADMOUNT XFMR
[Symbol]	[Symbol]	FUSED JUNCTION BOX
[Symbol]	[Symbol]	PRIMARY METER
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	PEDESTAL
[Symbol]	[Symbol]	NON-CEA POLE
[Symbol]	[Symbol]	POLE
[Symbol]	[Symbol]	LIGHT
[Symbol]	[Symbol]	DOWN GUY
[Symbol]	[Symbol]	FUSE
[Symbol]	[Symbol]	SPLICE POINT
[Symbol]	[Symbol]	1Ø OH XFMR
[Symbol]	[Symbol]	DELTA OH XFMR
[Symbol]	[Symbol]	3Ø OH XFMR
[Symbol]	[Symbol]	FIBER OPTIC
[Symbol]	[Symbol]	O.H. XMSSN
[Symbol]	[Symbol]	U.G. XMSSN
[Symbol]	[Symbol]	SPAN GUY
[Symbol]	[Symbol]	CONDUIT DIAMETER
[Symbol]	[Symbol]	1Ø U.G. PRIMARY
[Symbol]	[Symbol]	2Ø U.G. PRIMARY
[Symbol]	[Symbol]	3Ø U.G. PRIMARY
[Symbol]	[Symbol]	U.G. SECONDARY
[Symbol]	[Symbol]	U.G. SERVICE
[Symbol]	[Symbol]	1Ø O.H. PRIMARY
[Symbol]	[Symbol]	2Ø O.H. PRIMARY
[Symbol]	[Symbol]	3Ø O.H. PRIMARY
[Symbol]	[Symbol]	R.O.W. EASEMENT LINE
[Symbol]	[Symbol]	CENTERLINE OF TRENCH

COLOR LEGEND	
[Color]	NEW
[Color]	REFERENCE
[Color]	EXISTING
[Color]	RETIRE
[Color]	ABANDON



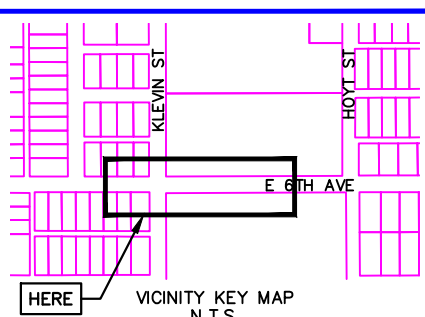
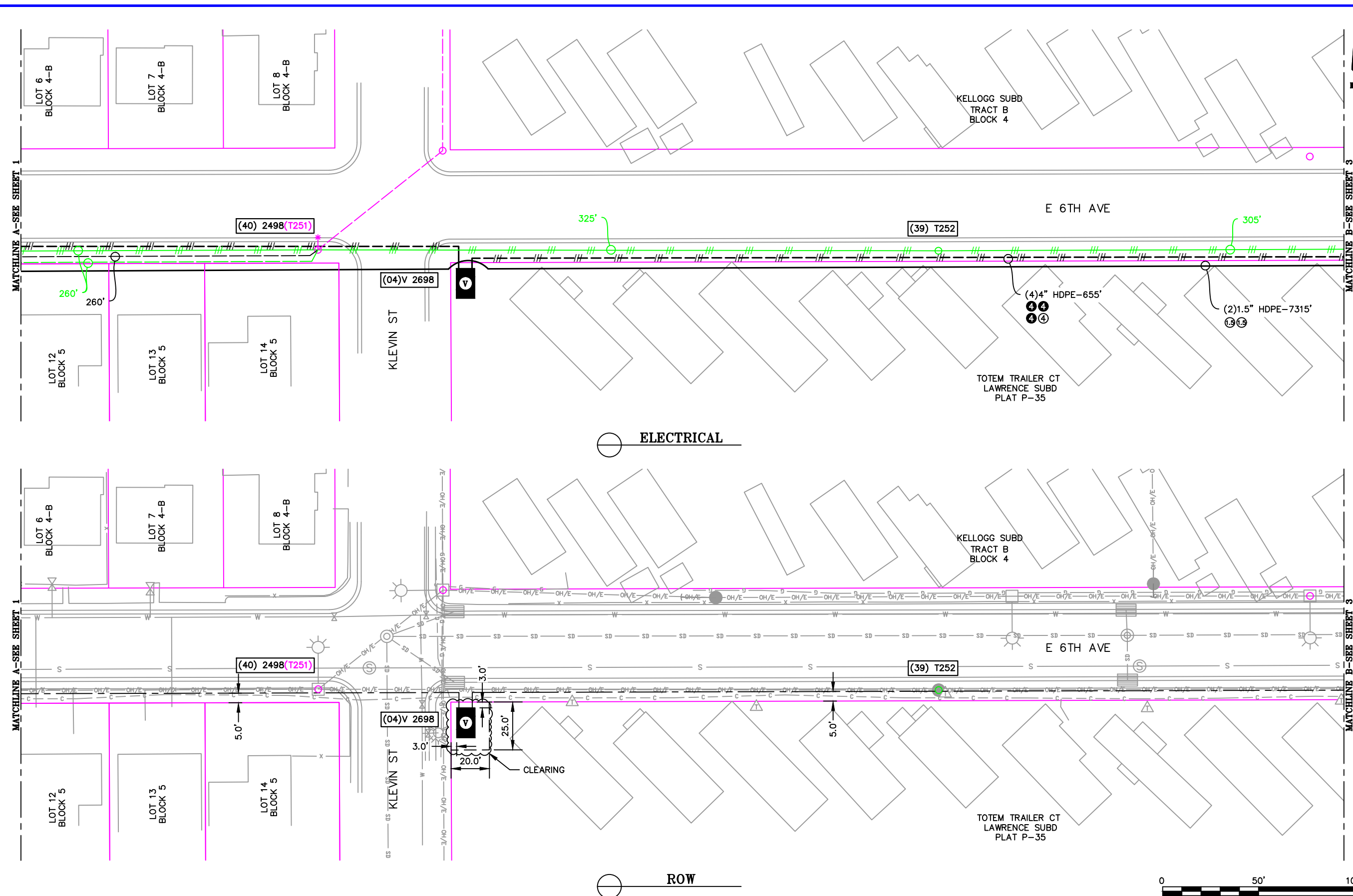
PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	Jm 6/15/26

ENG. STAMP



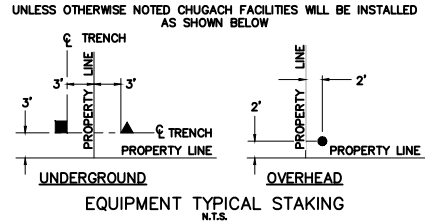
Chugach Electric Association, Inc.
 5601 Electron Drive - P.O. Box 196300
 Anchorage, Alaska 99519-6300

DRAWING NAME:	34.5kV SUBTRANSMISSION BRAGAW TO E.6TH PLAN, PROFILE, & ROW STRUCTURE 9999 TO STRUCTURE 6999 GRIDS: 1236, 1237, 1238, 1336, 1337, 1338
W.O. NO.:	E2320073
E2320073.dwg	
PAGE 1 OF 24	



NEW	EXISTING	DESC.
(V)	(V)	VAULT
(J)	(J)	JUNCTION BOX
(S)	(S)	SWITCH CABINET
(P)	(P)	PULLBOX
(F)	(F)	PADMOUNT XFMR
(M)	(M)	FUSED JUNCTION BOX
(H)	(H)	PRIMARY METER
(▲)	(▲)	HANDHOLE
(●)	(●)	PEDESTAL
(○)	(○)	NON-CEA POLE
(○)	(○)	POLE
(*)	(*)	LIGHT
(↓)	(↓)	DOWN GUY
(~)	(~)	FUSE
(◇)	(◇)	SPLICE POINT
(⊕)	(⊕)	1Ø OH XFMR
(⊕⊕)	(⊕⊕)	DELTA OH XFMR
(⊕⊕⊕)	(⊕⊕⊕)	3Ø OH XFMR
(FO)	(FO)	FIBER OPTIC
(//)	(//)	O.H. XMSSN
(-//)	(-//)	U.G. XMSSN
(X)	(X)	SPAN GUY
(---)	(---)	CONDUIT DIAMETER
()	()	1Ø U.G. PRIMARY
()	()	2Ø U.G. PRIMARY
()	()	3Ø U.G. PRIMARY
(---)	(---)	U.G. SECONDARY
(- - - -)	(- - - -)	U.G. SERVICE
(- - - -)	(- - - -)	1Ø O.H. PRIMARY
(- - - -)	(- - - -)	2Ø O.H. PRIMARY
(- - - -)	(- - - -)	3Ø O.H. PRIMARY
(- - - -)	(- - - -)	R.O.W. EASEMENT LINE
(- - - -)	(- - - -)	CENTERLINE OF TRENCH

COLOR LEGEND	
(Solid Black)	NEW
(Dashed Black)	REFERENCE
(Pink)	EXISTING
(Green)	RETIRE
(Red)	ABANDON



PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	Jm 6/15/26

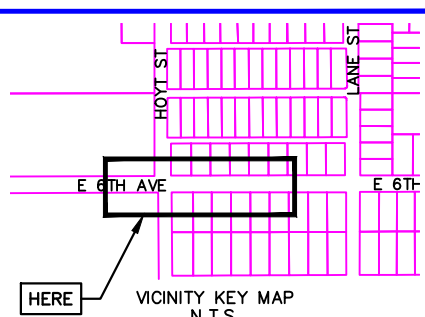
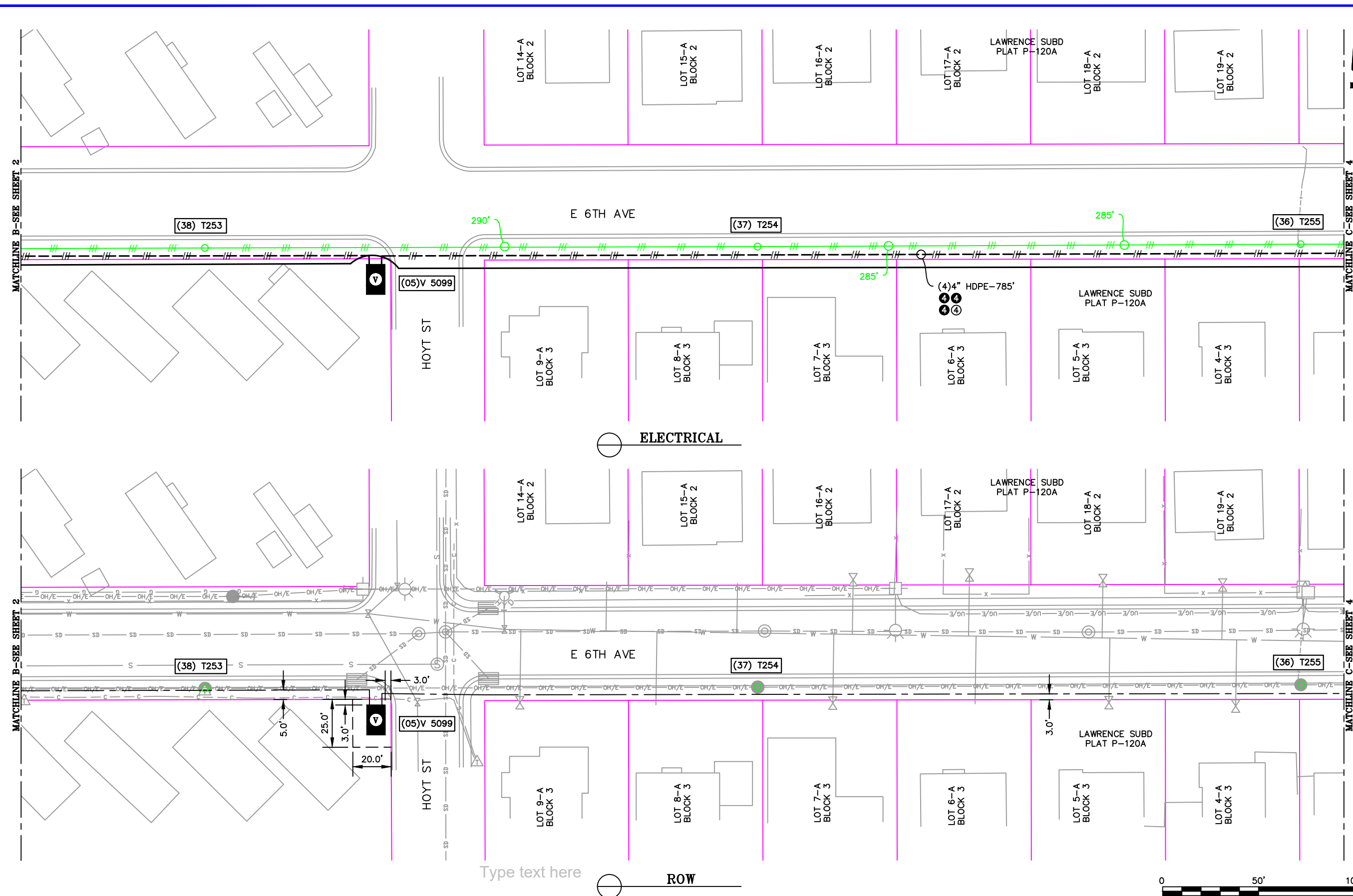
ENG. STAMP

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

DRAWING NAME: 34.5kV SUBTRANSMISSION BRAGAW TO E.6TH PLAN, PROFILE, & ROW STRUCTURE 9999 TO STRUCTURE 6999 GRIDS: 1236, 1237, 1238, 1336, 1337, 1338

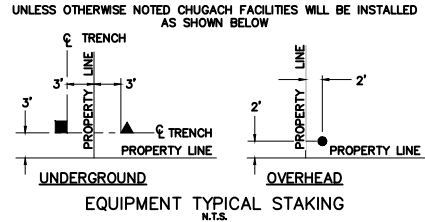
W.O. NO.: E2320073

E2320073.dwg
 PAGE 2 OF 24



NEW	EXISTING	DESC.
[V]	[V]	VAULT
[J]	[J]	JUNCTION BOX
[S]	[S]	SWITCH CABINET
[P]	[P]	PULLBOX
[F]	[F]	PADMOUNT XFMR
[M]	[M]	FUSED JUNCTION BOX
[M]	[M]	PRIMARY METER
[H]	[H]	HANDHOLE
[PE]	[PE]	PEDESTAL
[NP]	[NP]	NON-CEA POLE
[PO]	[PO]	POLE
[LG]	[LG]	LIGHT
[DG]	[DG]	DOWN GUY
[FU]	[FU]	FUSE
[SP]	[SP]	SPLICE POINT
[1Ø]	[1Ø]	1Ø OH XFMR
[Δ]	[Δ]	DELTA OH XFMR
[3Ø]	[3Ø]	3Ø OH XFMR
[FO]	[FO]	FIBER OPTIC
[//]	[//]	O.H. XMSSN
[//]	[//]	U.G. XMSSN
[X]	[X]	SPAN GUY
[C]	[C]	CONDUIT DIAMETER
[1Ø]	[1Ø]	1Ø U.G. PRIMARY
[2Ø]	[2Ø]	2Ø U.G. PRIMARY
[3Ø]	[3Ø]	3Ø U.G. PRIMARY
[U.G.]	[U.G.]	U.G. SECONDARY
[U.G.]	[U.G.]	U.G. SERVICE
[1Ø]	[1Ø]	1Ø O.H. PRIMARY
[2Ø]	[2Ø]	2Ø O.H. PRIMARY
[3Ø]	[3Ø]	3Ø O.H. PRIMARY
[---]	[---]	R.O.W. EASEMENT LINE
[---]	[---]	CENTERLINE OF TRENCH

COLOR LEGEND	
[Solid Black]	NEW
[Dashed Black]	REFERENCE
[Solid Grey]	EXISTING
[Solid Green]	RETIRE
[Solid Red]	ABANDON



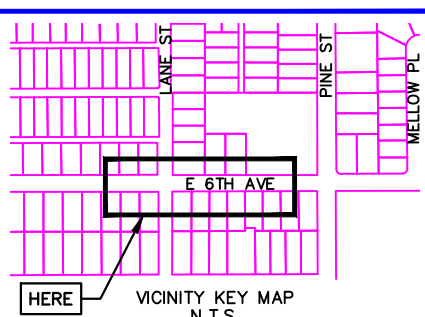
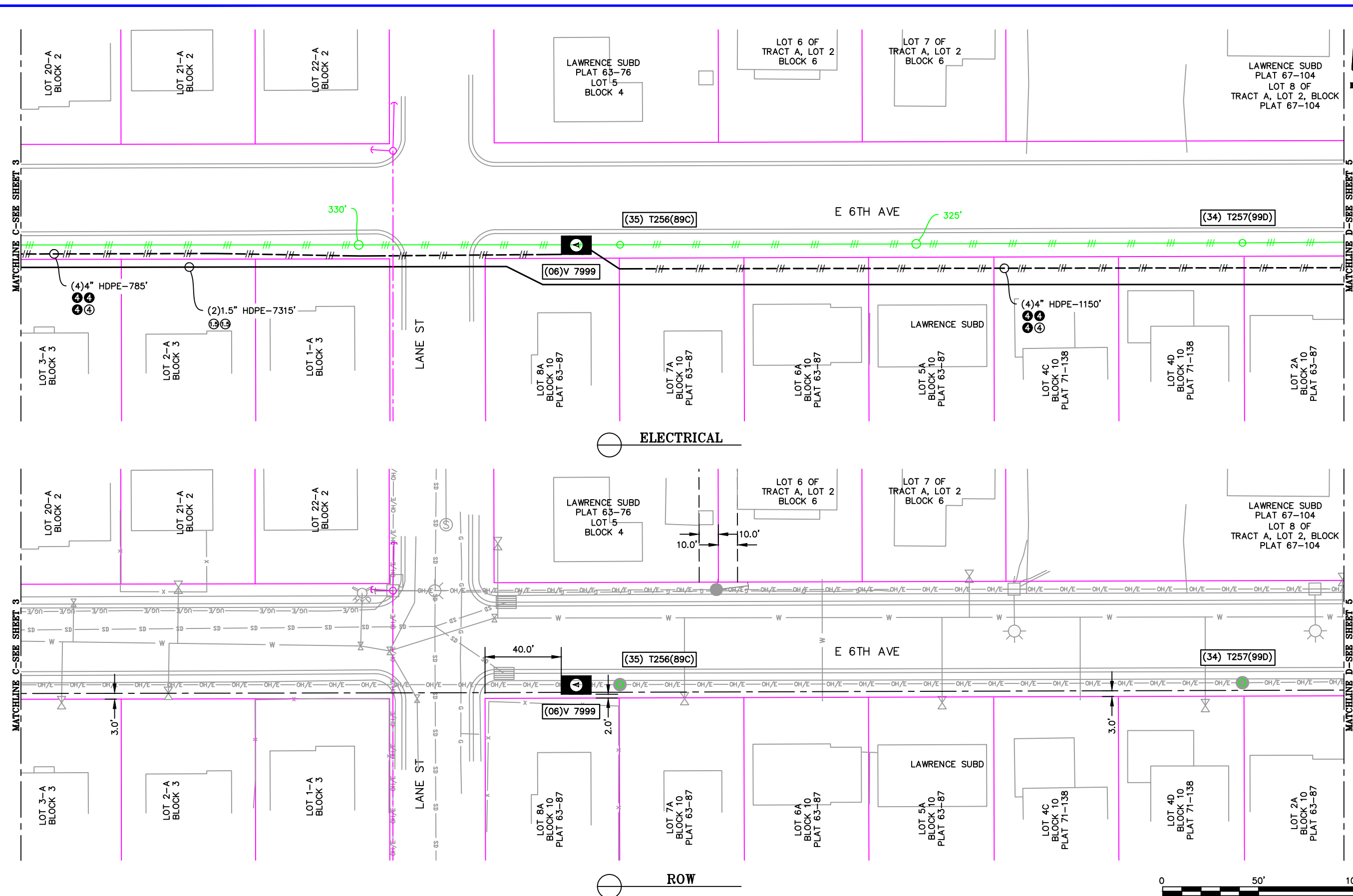
PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	Jm 6/15/26

ENG. STAMP



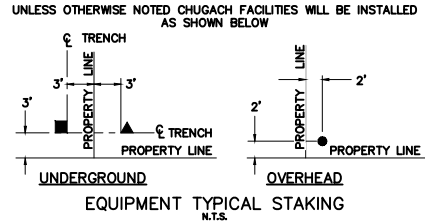
Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

DRAWING NAME:	34.5kV SUBTRANSMISSION BRAGAW TO E.6TH PLAN, PROFILE, & ROW STRUCTURE 9999 TO STRUCTURE 6999 GRIDS: 1236, 1237, 1238, 1336, 1337, 1338
W.O. NO.:	E2320073
E2320073.dwg	
PAGE 3 OF 24	



NEW	EXISTING	DESC.
		VAULT
		JUNCTION BOX
		SWITCH CABINET
		PULLBOX
		PADMOUNT XFMR
		FUSED JUNCTION BOX
		PRIMARY METER
		HANDHOLE
		PEDESTAL
		NON-CEA POLE
		POLE
		LIGHT
		DOWN GUY
		FUSE
		SPLICE POINT
		1Ø OH XFMR
		DELTA OH XFMR
		3Ø OH XFMR
		FIBER OPTIC
		O.H. XMSSN
		U.G. XMSSN
		SPAN GUY
		CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
		U.G. SECONDARY
		U.G. SERVICE
		1Ø O.H. PRIMARY
		2Ø O.H. PRIMARY
		3Ø O.H. PRIMARY
		R.O.W. EASEMENT LINE
		CENTERLINE OF TRENCH

COLOR LEGEND	
	NEW
	REFERENCE
	EXISTING
	RETIRE
	ABANDON



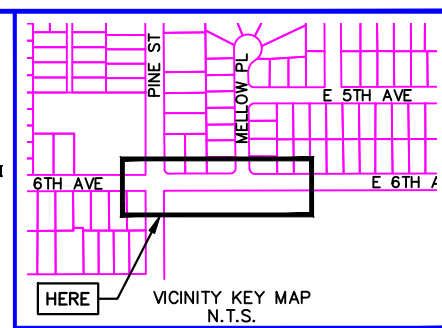
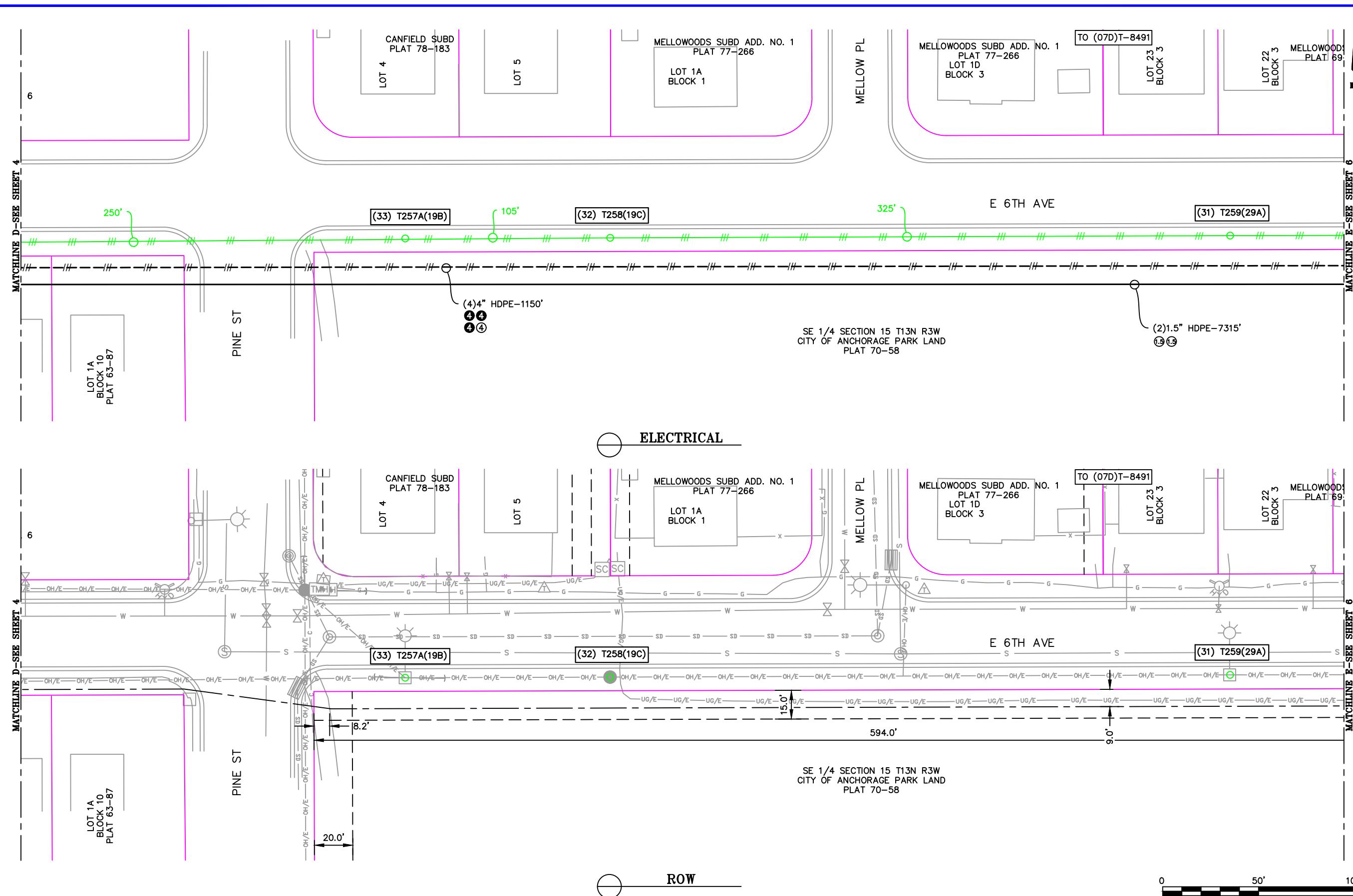
PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	<i>Jm</i> 6/15/26

ENG. STAMP



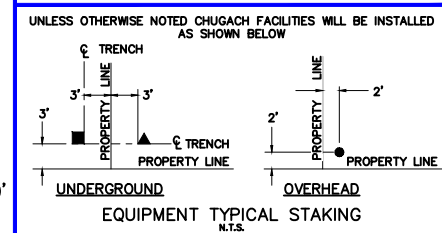
Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

DRAWING NAME:	34.5kV SUBTRANSMISSION BRAGAW TO E.6TH PLAN, PROFILE, & ROW STRUCTURE 9999 TO STRUCTURE 6999 GRIDS: 1236, 1237, 1238, 1336, 1337, 1338
W.O. NO.:	E2320073
E2320073.dwg	PAGE 4 OF 24



NEW	EXISTING	DESC.
		VAULT
		JUNCTION BOX
		SWITCH CABINET
		PULLBOX
		PADMOUNT XFMR
		FUSED JUNCTION BOX
		PRIMARY METER
		HANDHOLE
		PEDESTAL
		NON-CEA POLE
		POLE
		LIGHT
		DOWN GUY
		FUSE
		SPLICE POINT
		1Ø OH XFMR
		DELTA OH XFMR
		3Ø OH XFMR
		FIBER OPTIC
		O.H. XMSSN
		U.G. XMSSN
		SPAN GUY
		CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
		U.G. SECONDARY
		U.G. SERVICE
		1Ø O.H. PRIMARY
		2Ø O.H. PRIMARY
		3Ø O.H. PRIMARY
		R.O.W. EASEMENT LINE
		CENTERLINE OF TRENCH

COLOR LEGEND	
	NEW
	REFERENCE
	EXISTING
	RETIRE
	ABANDON



PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	Jm 6/15/26

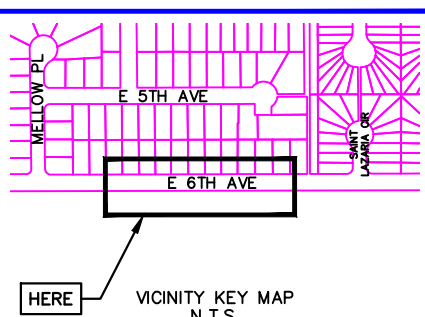
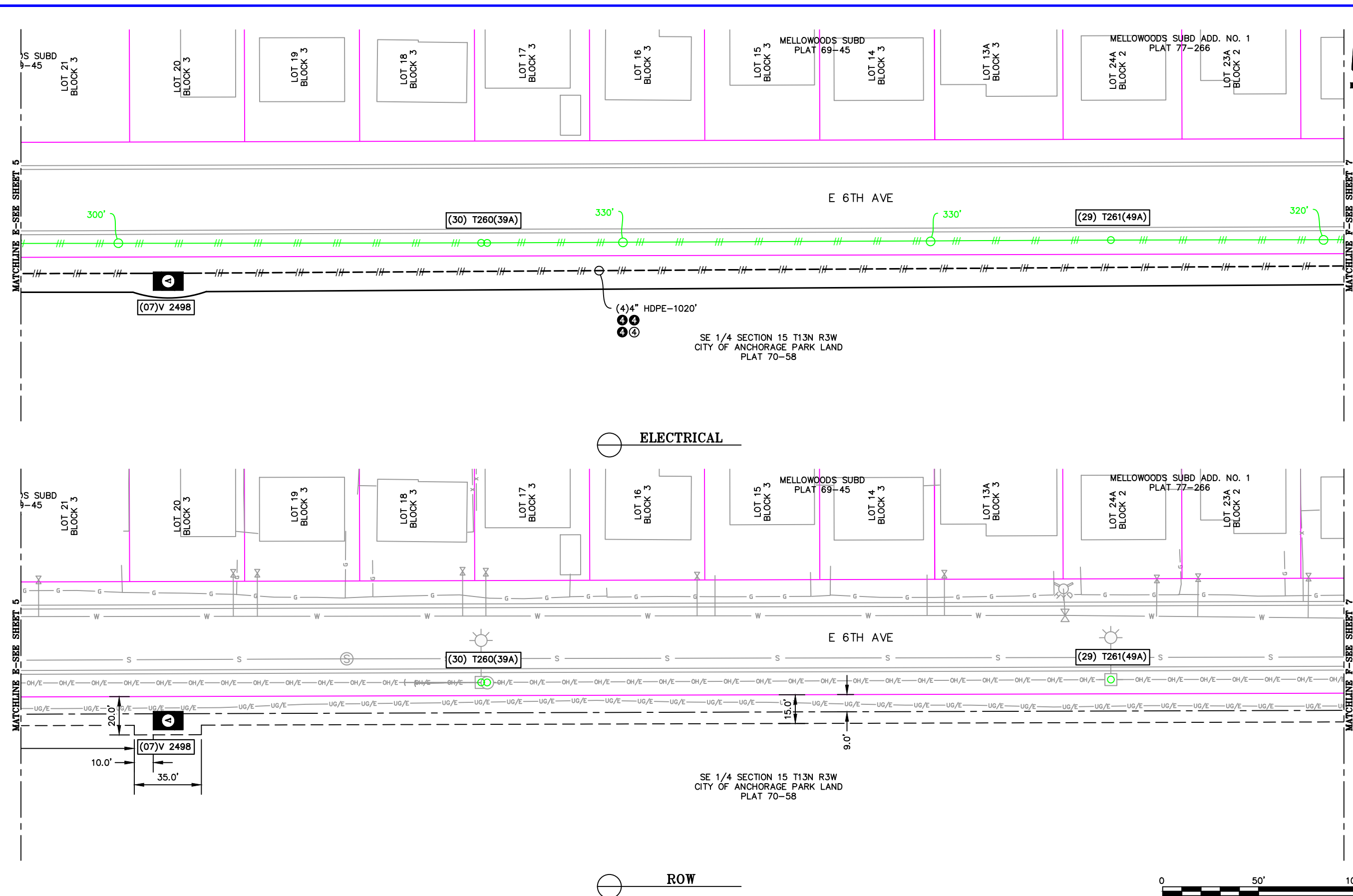
ENG. STAMP

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Anchorage, Alaska 99519-6300

DRAWING NAME: 34.5kV SUBTRANSMISSION BRAGAW TO E.6TH PLAN, PROFILE, & ROW STRUCTURE 9999 TO STRUCTURE 6999 GRIDS: 1236, 1237, 1238, 1336, 1337, 1338

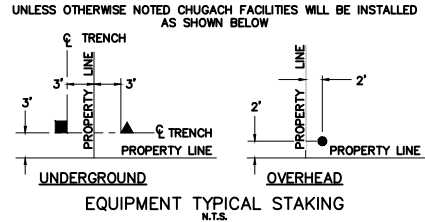
W.O. NO.: E2320073

E2320073.dwg
PAGE 5 OF 24



NEW	EXISTING	DESC.
		VAULT
		JUNCTION BOX
		SWITCH CABINET
		PULLBOX
		PADMOUNT XFMR
		FUSED JUNCTION BOX
		PRIMARY METER
		HANDHOLE
		PEDESTAL
		NON-CEA POLE
		POLE
		LIGHT
		DOWN GUY
		FUSE
		SPLICE POINT
		1Ø OH XFMR
		DELTA OH XFMR
		3Ø OH XFMR
		FIBER OPTIC
		O.H. XMSSN
		U.G. XMSSN
		SPAN GUY
		CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
		U.G. SECONDARY
		U.G. SERVICE
		1Ø O.H. PRIMARY
		2Ø O.H. PRIMARY
		3Ø O.H. PRIMARY
		R.O.W. EASEMENT LINE
		CENTERLINE OF TRENCH

COLOR LEGEND	
	NEW
	REFERENCE
	EXISTING
	RETIRE
	ABANDON



PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999		W.O. #: E2320073	
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV			
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	Jm 6/15/26

ENG. STAMP

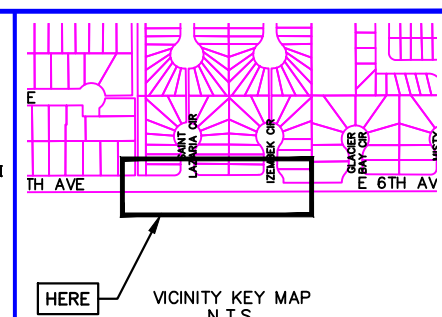
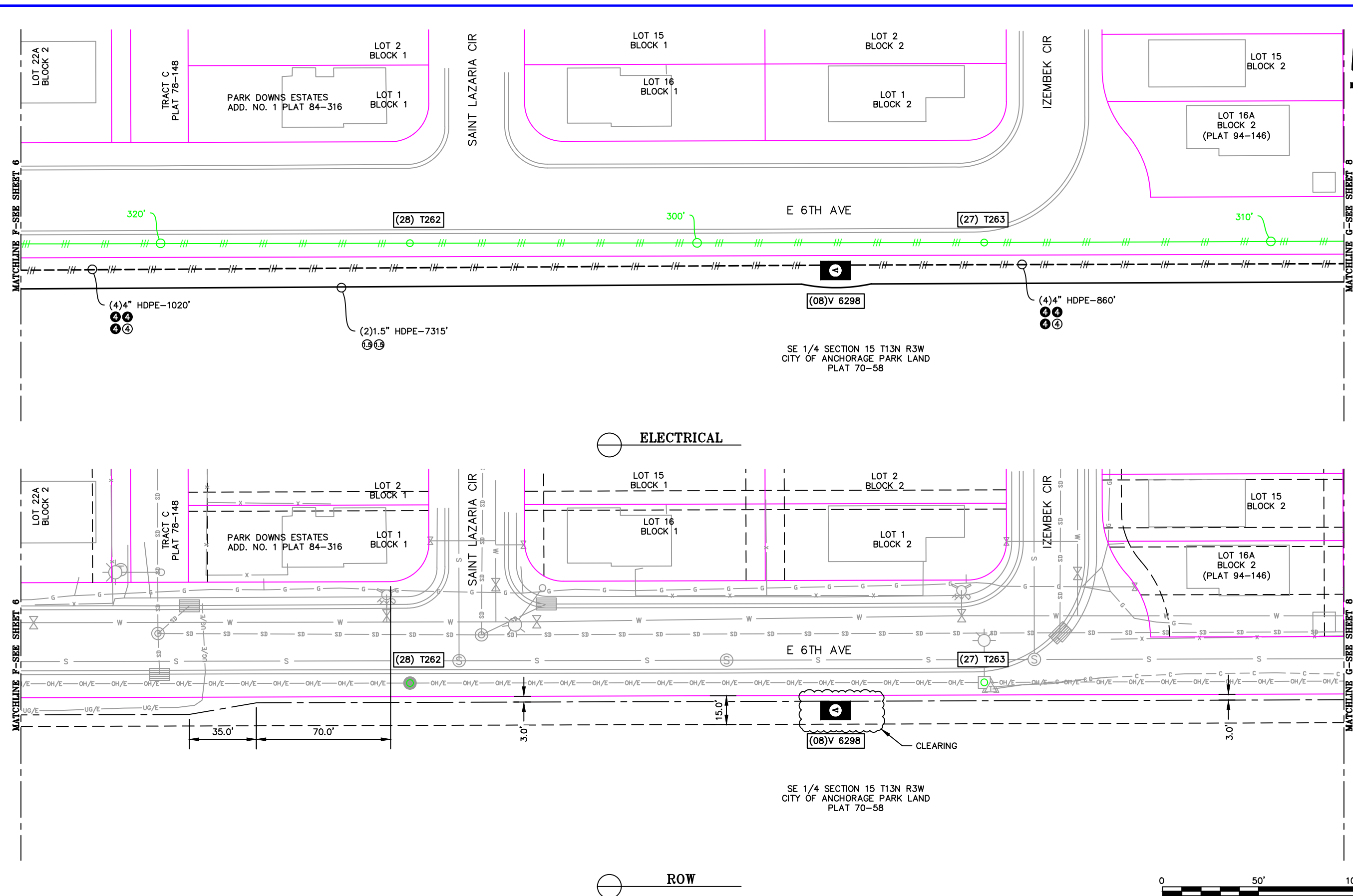
Chugach Electric Association, Inc.
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Anchorage, Alaska 99519-6300

DRAWING NAME: 34.5kV SUBTRANSMISSION BRAGAW TO E.6TH PLAN, PROFILE, & ROW STRUCTURE 9999 TO STRUCTURE 6999 GRIDS: 1236, 1237, 1238, 1336, 1337, 1338

W.O. NO.: E2320073

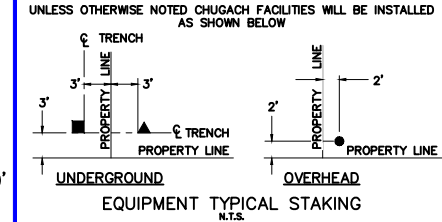
E2320073.dwg

PAGE 6 OF 24



NEW	EXISTING	DESC.
[V]	[V]	VAULT
[J]	[J]	JUNCTION BOX
[S]	[S]	SWITCH CABINET
[P]	[P]	PULLBOX
[F]	[F]	PADMOUNT XFMR
[M]	[M]	FUSED JUNCTION BOX
[M]	[M]	PRIMARY METER
[▲]	[▲]	HANDHOLE
[●]	[●]	PEDESTAL
[⊗]	[⊗]	NON-CEA POLE
[○]	[○]	POLE
[*]	[*]	LIGHT
[↓]	[↓]	DOWN GUY
[~]	[~]	FUSE
[◇]	[◇]	SPLICE POINT
[⊕]	[⊕]	1Ø OH XFMR
[⊕⊕]	[⊕⊕]	DELTA OH XFMR
[⊕⊕⊕]	[⊕⊕⊕]	3Ø OH XFMR
[FO]	[FO]	FIBER OPTIC
[//]	[//]	O.H. XMSSN
[-//]	[-//]	U.G. XMSSN
[X]	[X]	SPAN GUY
[---]	[---]	CONDUIT DIAMETER
[+]	[+]	1Ø U.G. PRIMARY
[=]	[=]	2Ø U.G. PRIMARY
[≡]	[≡]	3Ø U.G. PRIMARY
[---]	[---]	U.G. SECONDARY
[---]	[---]	U.G. SERVICE
[---]	[---]	1Ø O.H. PRIMARY
[---]	[---]	2Ø O.H. PRIMARY
[---]	[---]	3Ø O.H. PRIMARY
[---]	[---]	R.O.W. EASEMENT LINE
[---]	[---]	CENTERLINE OF TRENCH

COLOR LEGEND	
[Solid Black]	NEW
[Dashed Black]	REFERENCE
[Solid Green]	EXISTING
[Solid Red]	RETIRE
[Solid Blue]	ABANDON



ELECTRICAL

ROW

PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV <i>ME & VK</i>		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	<i>JK</i> 6/15/26

ENG. STAMP

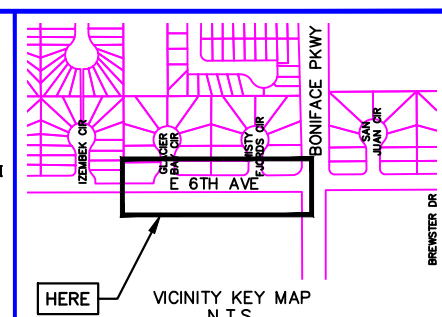
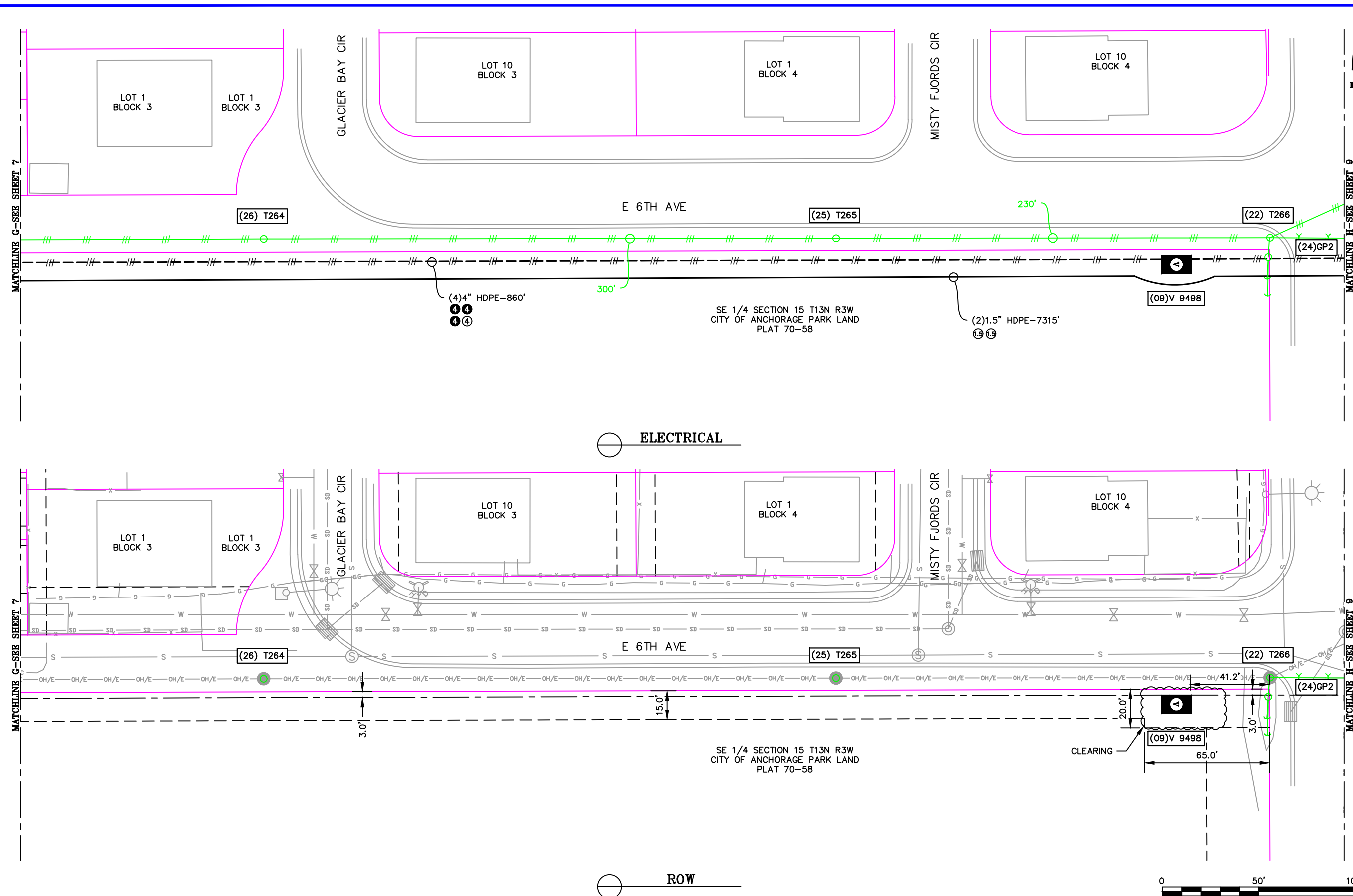
Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

DRAWING NAME: 34.5kV SUBTRANSMISSION BRAGAW TO E.6TH PLAN, PROFILE, & ROW STRUCTURE 9999 TO STRUCTURE 6999 GRIDS: 1236, 1237, 1238, 1336, 1337, 1338

W.O. NO.: E2320073

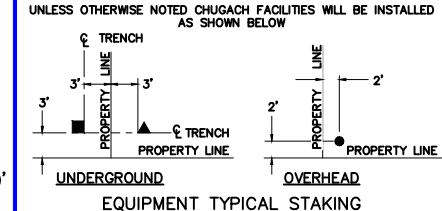
E2320073.dwg

PAGE 7 OF 24



NEW	EXISTING	DESC.
(V)	(V)	VAULT
(J)	(J)	JUNCTION BOX
(S)	(S)	SWITCH CABINET
(P)	(P)	PULLBOX
(F)	(F)	PADMOUNT XFMR
(M)	(M)	FUSED JUNCTION BOX
(▲)	(▲)	PRIMARY METER
(△)	(△)	HANDHOLE
(●)	(●)	PEDESTAL
(⊗)	(⊗)	NON-CEA POLE
(○)	(○)	POLE
(*)	(*)	LIGHT
(↓)	(↓)	DOWN GUY
(~)	(~)	FUSE
(◆)	(◆)	SPLICE POINT
(⊕)	(⊕)	1Ø OH XFMR
(⊕⊕)	(⊕⊕)	DELTA OH XFMR
(⊕⊕⊕)	(⊕⊕⊕)	3Ø OH XFMR
(FO)	(FO)	FIBER OPTIC
(//)	(//)	O.H. XMSSN
(-//)	(-//)	U.G. XMSSN
(X)	(X)	SPAN GUY
(---)	(---)	CONDUIT DIAMETER
()	()	1Ø U.G. PRIMARY
()	()	2Ø U.G. PRIMARY
()	()	3Ø U.G. PRIMARY
(---)	(---)	U.G. SECONDARY
(- - - -)	(- - - -)	U.G. SERVICE
(- - - -)	(- - - -)	1Ø O.H. PRIMARY
(- - - -)	(- - - -)	2Ø O.H. PRIMARY
(- - - -)	(- - - -)	3Ø O.H. PRIMARY
(- - - -)	(- - - -)	R.O.W. EASEMENT LINE
(- - - -)	(- - - -)	CENTERLINE OF TRENCH

COLOR LEGEND	
(Solid Black)	NEW
(Dashed Black)	REFERENCE
(Pink)	EXISTING
(Green)	RETIRE
(Red)	ABANDON



PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	Jm 6/15/26

ENG. STAMP

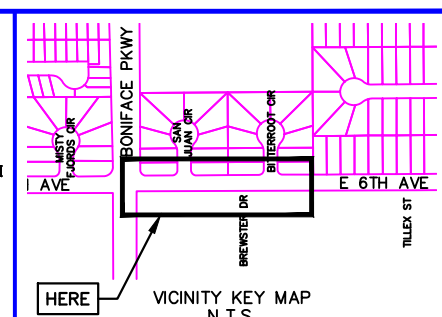
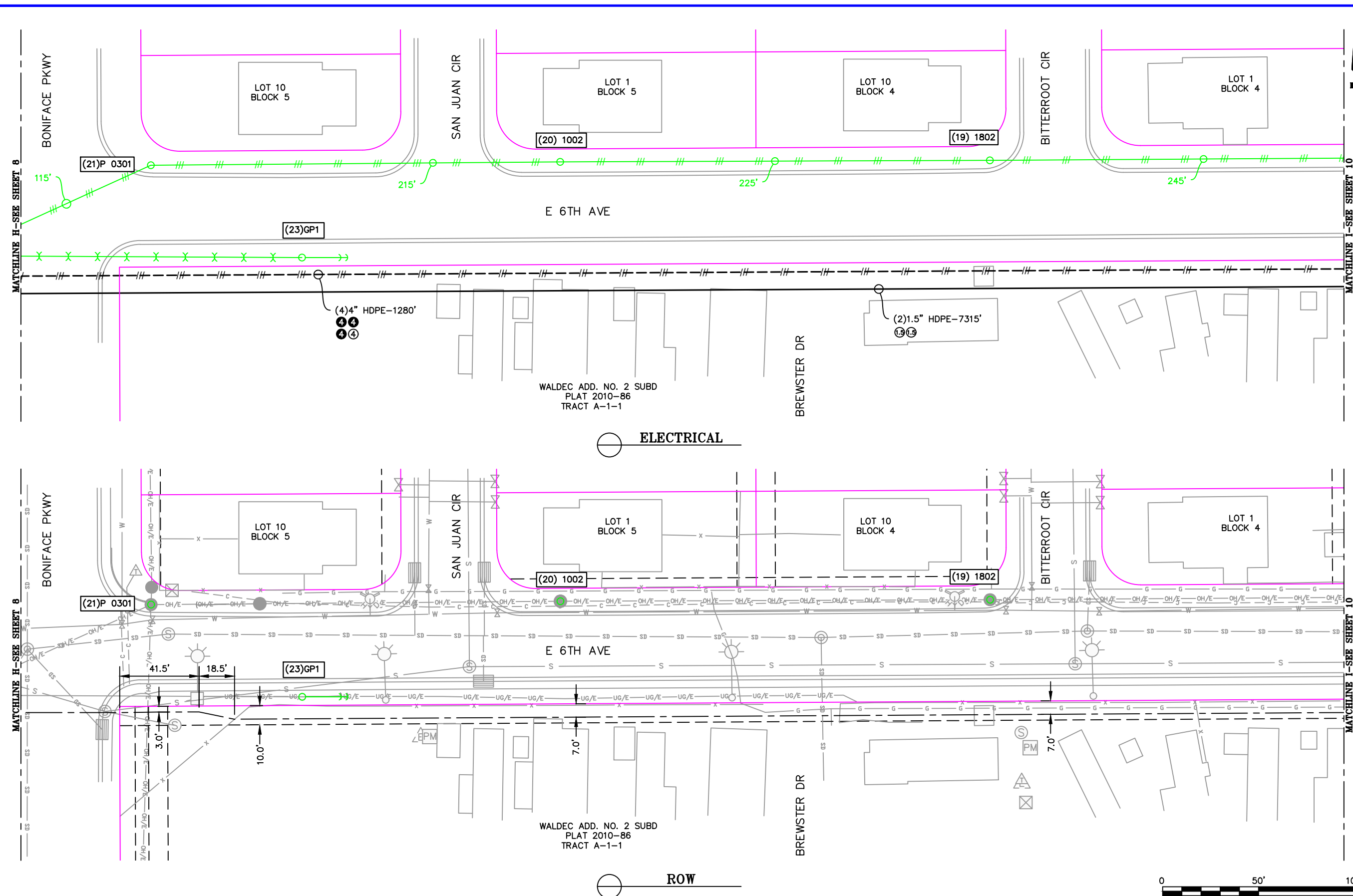
Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

DRAWING NAME: 34.5kV SUBTRANSMISSION BRAGAW TO E.6TH PLAN, PROFILE, & ROW STRUCTURE 9999 TO STRUCTURE 6999 GRIDS: 1236, 1237, 1238, 1336, 1337, 1338

W.O. NO.: E2320073

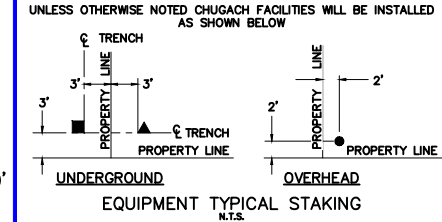
E2320073.dwg

PAGE 8 OF 24



NEW	EXISTING	DESC.
		VAULT
		JUNCTION BOX
		SWITCH CABINET
		PULLBOX
		PADMOUNT XFMR
		FUSED JUNCTION BOX
		PRIMARY METER
		HANDHOLE
		PEDESTAL
		NON-CEA POLE
		POLE
		LIGHT
		DOWN GUY
		FUSE
		SPLICE POINT
		1Ø OH XFMR
		DELTA OH XFMR
		3Ø OH XFMR
		FIBER OPTIC
		O.H. XMSSN
		U.G. XMSSN
		SPAN GUY
		CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
		U.G. SECONDARY
		U.G. SERVICE
		1Ø O.H. PRIMARY
		2Ø O.H. PRIMARY
		3Ø O.H. PRIMARY
		R.O.W. EASEMENT LINE
		CENTERLINE OF TRENCH

COLOR LEGEND	
	NEW
	REFERENCE
	EXISTING
	RETIRE
	ABANDON



PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	Jm 6/15/26

ENG. STAMP

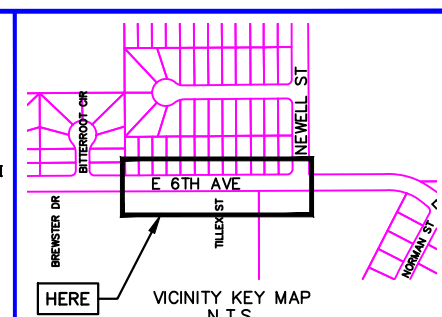
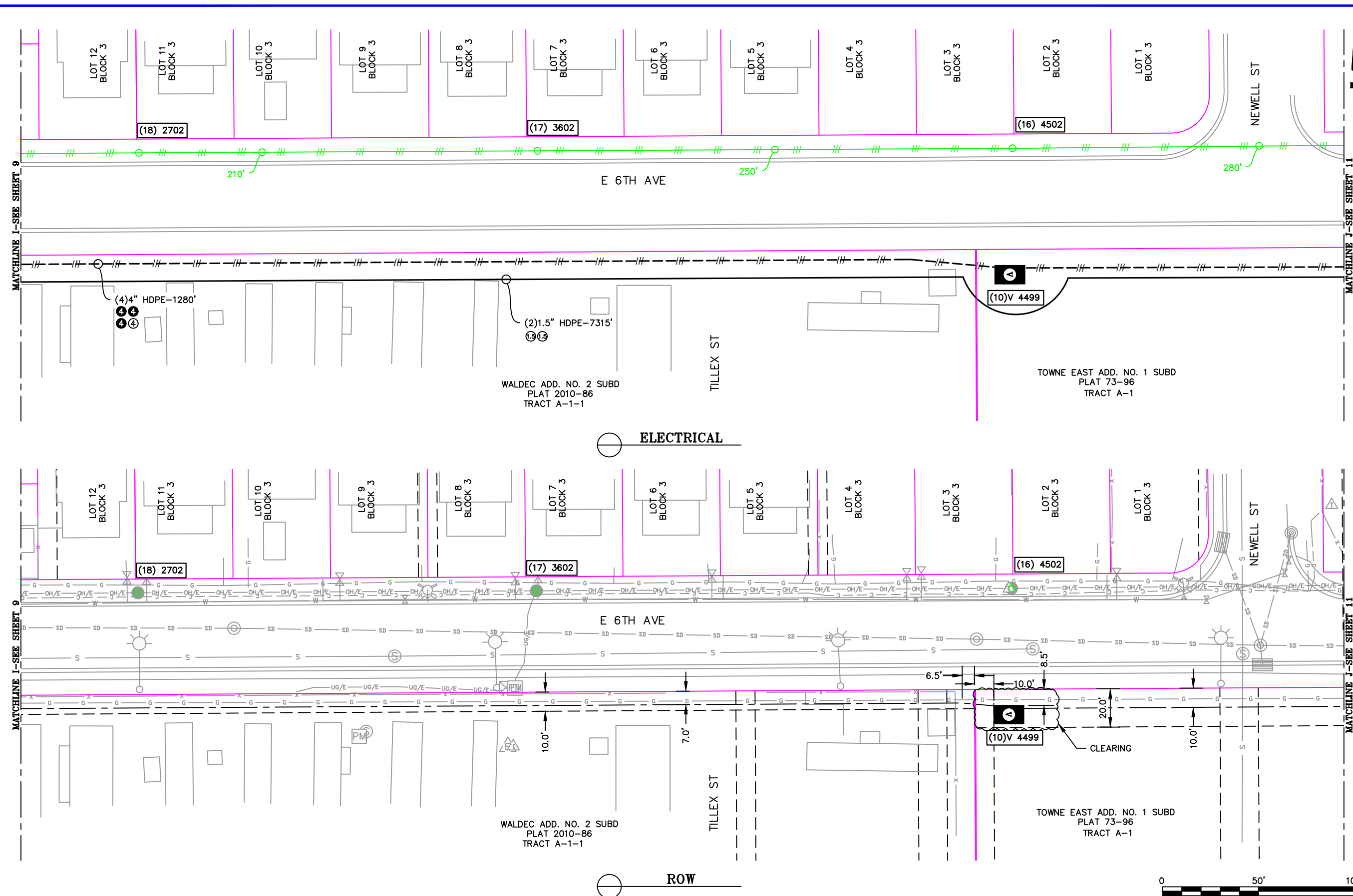
Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

DRAWING NAME: 34.5kV SUBTRANSMISSION BRAGAW TO E.6TH PLAN, PROFILE, & ROW STRUCTURE 9999 TO STRUCTURE 6999 GRIDS: 1236, 1237, 1238, 1336, 1337, 1338

W.O. NO.: E2320073

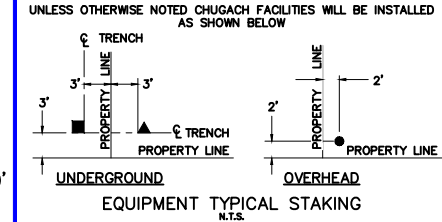
E2320073.dwg

PAGE 9 OF 24



NEW	EXISTING	DESC.
		VAULT
		JUNCTION BOX
		SWITCH CABINET
		PULLBOX
		PADMOUNT XFMR
		FUSED JUNCTION BOX
		PRIMARY METER
		HANDHOLE
		PEDESTAL
		NON-CEA POLE
		POLE
		LIGHT
		DOWN GUY
		FUSE
		SPLICE POINT
		1Ø OH XFMR
		DELTA OH XFMR
		3Ø OH XFMR
		FIBER OPTIC
		O.H. XMSSN
		U.G. XMSSN
		SPAN GUY
		CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
		U.G. SECONDARY
		U.G. SERVICE
		1Ø O.H. PRIMARY
		2Ø O.H. PRIMARY
		3Ø O.H. PRIMARY
		R.O.W. EASEMENT LINE
		CENTERLINE OF TRENCH

COLOR LEGEND	
	NEW
	REFERENCE
	EXISTING
	RETIRE
	ABANDON



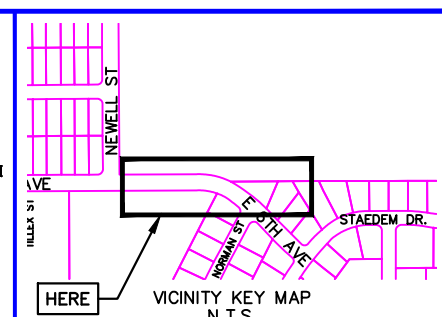
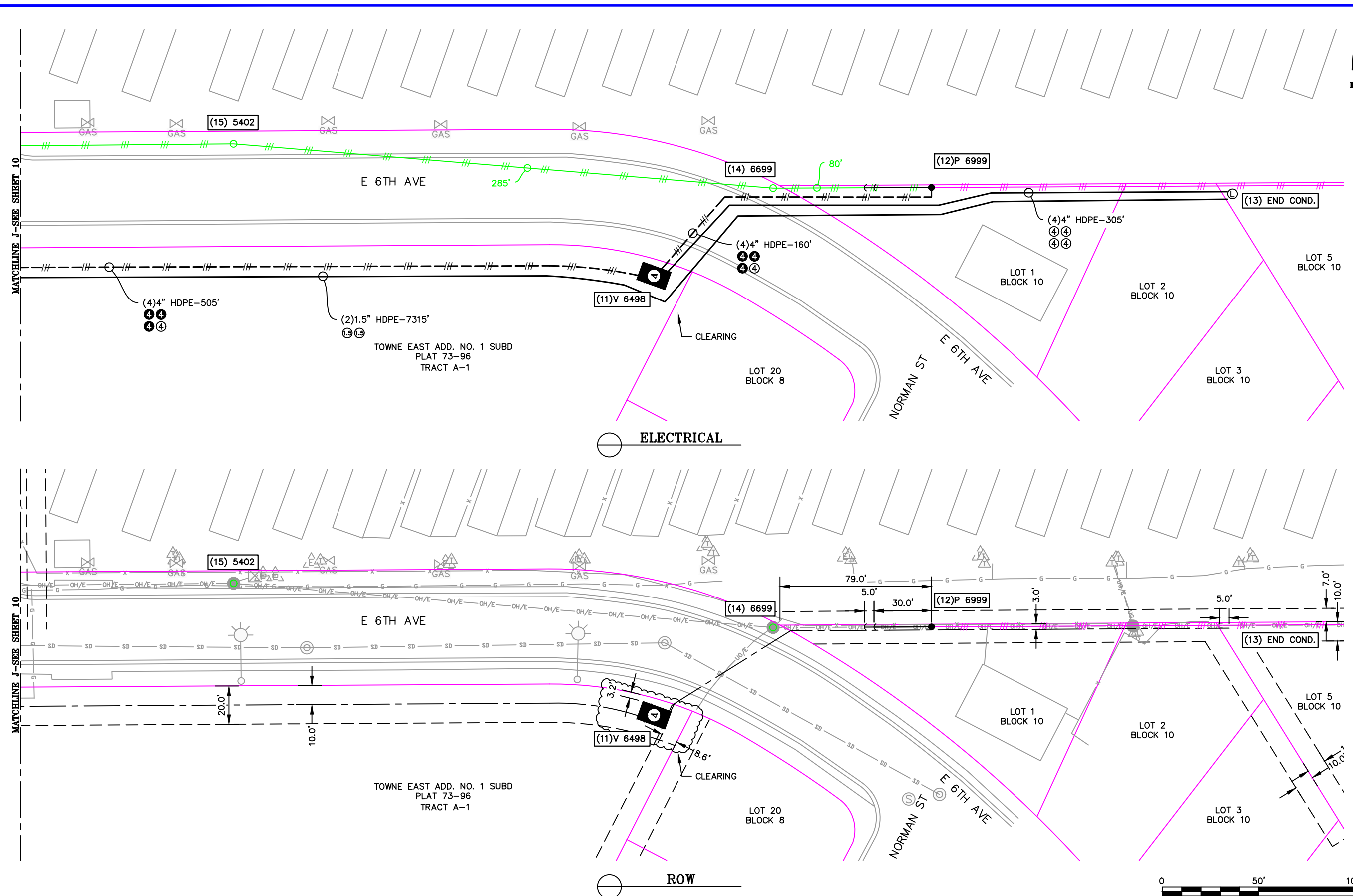
PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	Jm 6/15/26

ENG. STAMP



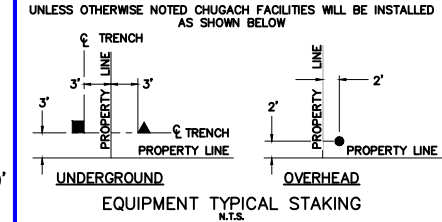
Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

DRAWING NAME:	34.5kV SUBTRANSMISSION BRAGAW TO E.6TH PLAN, PROFILE, & ROW STRUCTURE 9999 TO STRUCTURE 6999 GRIDS: 1236, 1237, 1238, 1336, 1337, 1338
W.O. NO.:	E2320073
E2320073.dwg	
PAGE 10 OF 24	



NEW	EXISTING	DESC.
[V]	[V]	VAULT
[J]	[J]	JUNCTION BOX
[S]	[S]	SWITCH CABINET
[P]	[P]	PULLBOX
[F]	[F]	PADMOUNT XFMR
[M]	[M]	FUSED JUNCTION BOX
[M]	[M]	PRIMARY METER
[▲]	[▲]	HANDHOLE
[○]	[○]	PEDESTAL
[⊗]	[⊗]	NON-CEA POLE
[●]	[●]	POLE
[*]	[*]	LIGHT
[↓]	[↓]	DOWN GUY
[~]	[~]	FUSE
[◇]	[◇]	SPLICE POINT
[⊕]	[⊕]	1Ø OH XFMR
[⊕⊕]	[⊕⊕]	DELTA OH XFMR
[⊕⊕⊕]	[⊕⊕⊕]	3Ø OH XFMR
[FO]	[FO]	FIBER OPTIC
[//]	[//]	O.H. XMSSN
[-//]	[-//]	U.G. XMSSN
[X]	[X]	SPAN GUY
[]	[]	CONDUIT DIAMETER
[]	[]	1Ø U.G. PRIMARY
[]	[]	2Ø U.G. PRIMARY
[]	[]	3Ø U.G. PRIMARY
[- - -]	[- - -]	U.G. SECONDARY
[- - -]	[- - -]	U.G. SERVICE
[- - -]	[- - -]	1Ø O.H. PRIMARY
[- - -]	[- - -]	2Ø O.H. PRIMARY
[- - -]	[- - -]	3Ø O.H. PRIMARY
[- - -]	[- - -]	R.O.W. EASEMENT LINE
[- - -]	[- - -]	CENTERLINE OF TRENCH

COLOR LEGEND	
[Solid Blue]	NEW
[Dashed Blue]	REFERENCE
[Solid Green]	EXISTING
[Solid Red]	RETIRE
[Solid Orange]	ABANDON



PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV <i>ME & VK</i>		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	<i>ME</i> 6/15/26

ENG. STAMP

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

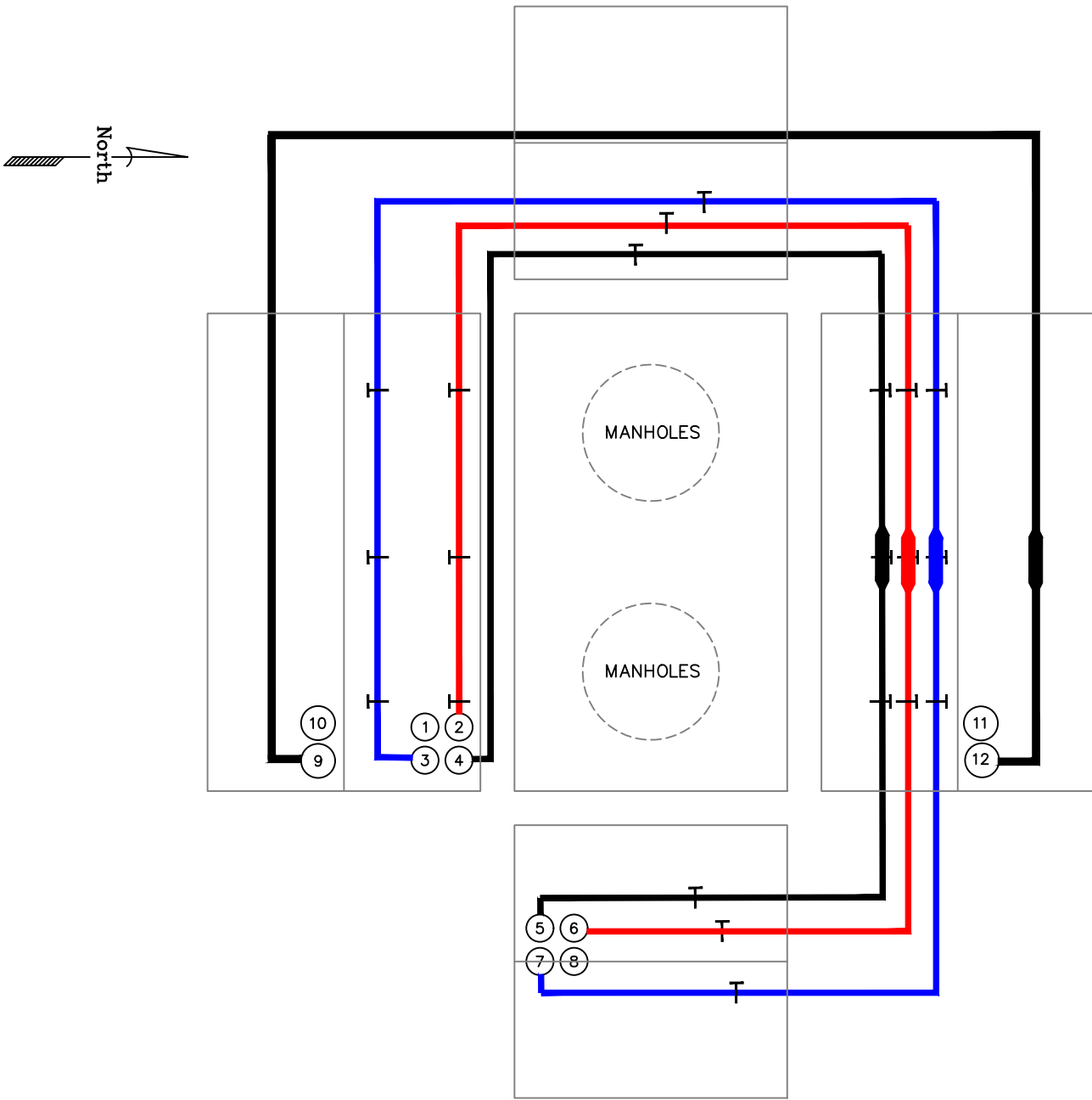
DRAWING NAME: 34.5kV SUBTRANSMISSION BRAGAW TO E.6TH PLAN, PROFILE, & ROW STRUCTURE 9999 TO STRUCTURE 6999 GRIDS: 1236, 1237, 1238, 1336, 1337, 1338

W.O. NO.: E2320073

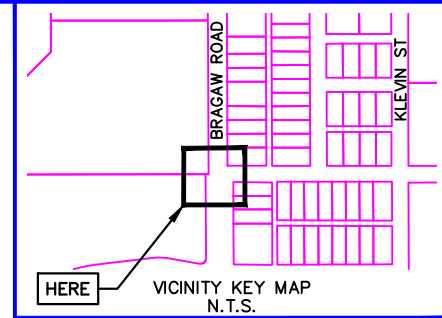
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PAGE 11 OF 24

VAULT SIZE $\frac{14' \times 8' \times 8'}{\text{WIDTH LENGTH HEIGHT}}$

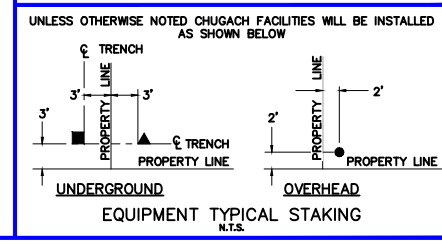


DUCT	SIZE	DESCRIPTION	SEQ
1	4"	VACANT TO VAULT 1335-9863	
2	4"	35kV 1000 CONC TO VAULT 1335-9863	
3	4"	35kV 1000 CONC TO VAULT 1335-9863	
4	4"	35kV 1000 CONC TO VAULT 1335-9863	
5	4"	35kV 1000 CONC TO POLE 9999 (99C) V 1336-2698	
6	4"	35kV 1000 CONC TO POLE 9999 (99C) V 1336-2698	
7	4"	35kV 1000 CONC TO POLE 9999 (99C) V 1336-2698	
8	4"	VACANT TO POLE 9999 (99C) V 1336-2698	
9	6"	15kV 750 CONC TO SC 1231, COMP. 1 THRU VAULTS 1335-9863 & 1335-982	
10	6"	VACANT TO VAULT 1335-9863	
11	6"	VACANT TO SC 1233	
12	6"	15kV 750 CONC TO SC 1233, COMP. 2	
13			
14			
15			
16			
17			
18			
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NEW	EXISTING	DESC.
		VAULT
		JUNCTION BOX
		SWITCH CABINET
		PULLBOX
		PADMOUNT XFMR
		FUSED JUNCTION BOX
		PRIMARY METER
		HANDHOLE
		PEDESTAL
		NON-CEA POLE
		POLE
		LIGHT
		DOWN GUY
		FUSE
		SPLICE POINT
		1Ø OH XFMR
		DELTA OH XFMR
		3Ø OH XFMR
		FIBER OPTIC
		O.H. XMSSN
		U.G. XMSSN
		SPAN GUY
		CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
		U.G. SECONDARY
		U.G. SERVICE
		1Ø O.H. PRIMARY
		2Ø O.H. PRIMARY
		3Ø O.H. PRIMARY
		R.O.W. EASEMENT LINE
		CENTERLINE OF TRENCH

COLOR LEGEND	
	NEW
	REFERENCE
	EXISTING
	RETIRE
	ABANDON



NOTES: REV: 0 DATE: 11/02/24 BY: M. ELLIOTT

VAULT 1235-9801
1235-BRAGAW & 6TH AVENUE

VAULT DETAILS

PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	Jm 6/15/26

ENG. STAMP

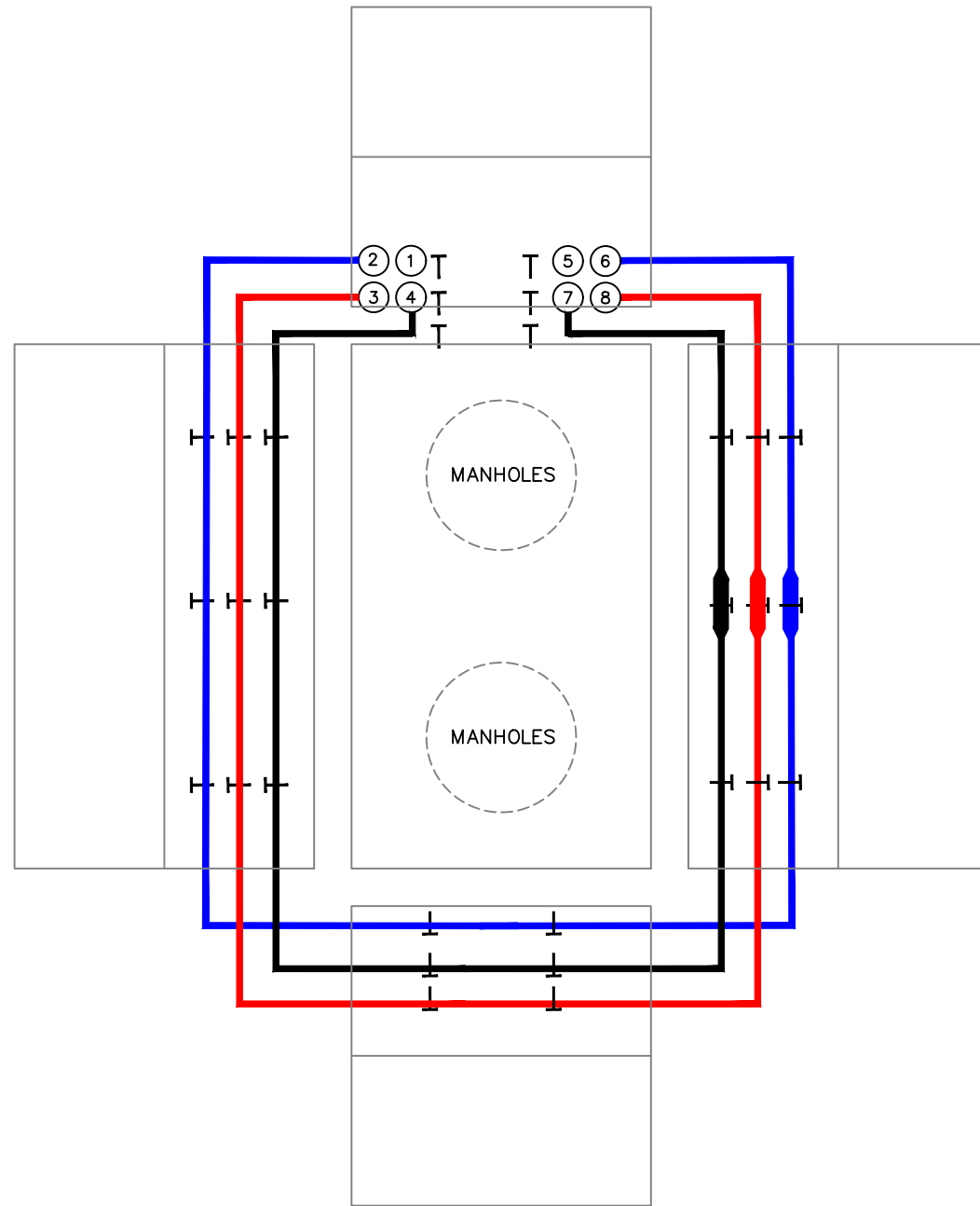
Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

DRAWING NAME: 34.5kV SUBTRANSMISSION BRAGAW TO E.6TH PLAN, PROFILE, & ROW STRUCTURE 9999 TO STRUCTURE 6999

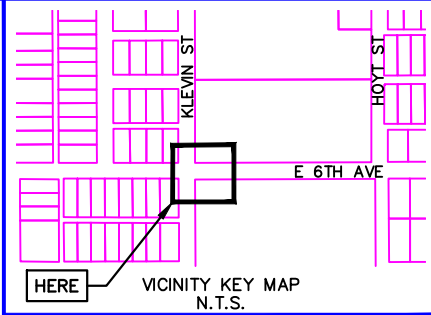
W.O. NO.: E2320073

E2320073.dwg
PAGE 12 OF 24

VAULT SIZE $\frac{14' \times 8' \times 8'}{\text{WIDTH LENGTH HEIGHT}}$

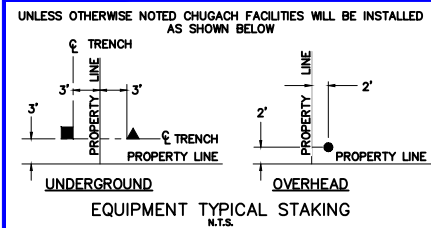


DUCT	SIZE	DESCRIPTION	SEQ
1	4"	VACANT TO VAULT 1235-9801	
2	4"	35kV 1000 CONC TO VAULT 1235-9801	
3	4"	35kV 1000 CONC TO VAULT 1235-9801	
4	4"	35kV 1000 CONC TO VAULT 1235-9801	
5	4"	VACANT TO VAULT 1336-5099	
6	4"	35kV 1000 CONC TO VAULT 1336-5099	
7	4"	35kV 1000 CONC TO VAULT 1336-5099	
8	4"	35kV 1000 CONC TO VAULT 1336-5099	
9			
10			
11			
12			
13			
14			
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NEW	EXISTING	DESC.
		VAULT
		JUNCTION BOX
		SWITCH CABINET
		PULLBOX
		PADMOUNT XFMR
		FUSED JUNCTION BOX
		PRIMARY METER
		HANDHOLE
		PEDESTAL
		NON-CEA POLE
		POLE
		LIGHT
		DOWN GUY
		FUSE
		SPLICE POINT
		1Ø OH XFMR
		DELTA OH XFMR
		3Ø OH XFMR
		FIBER OPTIC
		O.H. XMSSN
		U.G. XMSSN
		SPAN GUY
		CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
		U.G. SECONDARY
		U.G. SERVICE
		1Ø O.H. PRIMARY
		2Ø O.H. PRIMARY
		3Ø O.H. PRIMARY
		R.O.W. EASEMENT LINE
		CENTERLINE OF TRENCH

COLOR LEGEND	
	NEW
	REFERENCE
	EXISTING
	RETIRE
	ABANDON



NOTES:

REV: 0
DATE: 11/02/24
BY: M. ELLIOTT

ACAD File Name:

VAULT 1336-2698
1336-KLEVIN & E.6TH

VAULT DETAILS

PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	Jm 6/15/26

ENG. STAMP



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

DRAWING NAME:

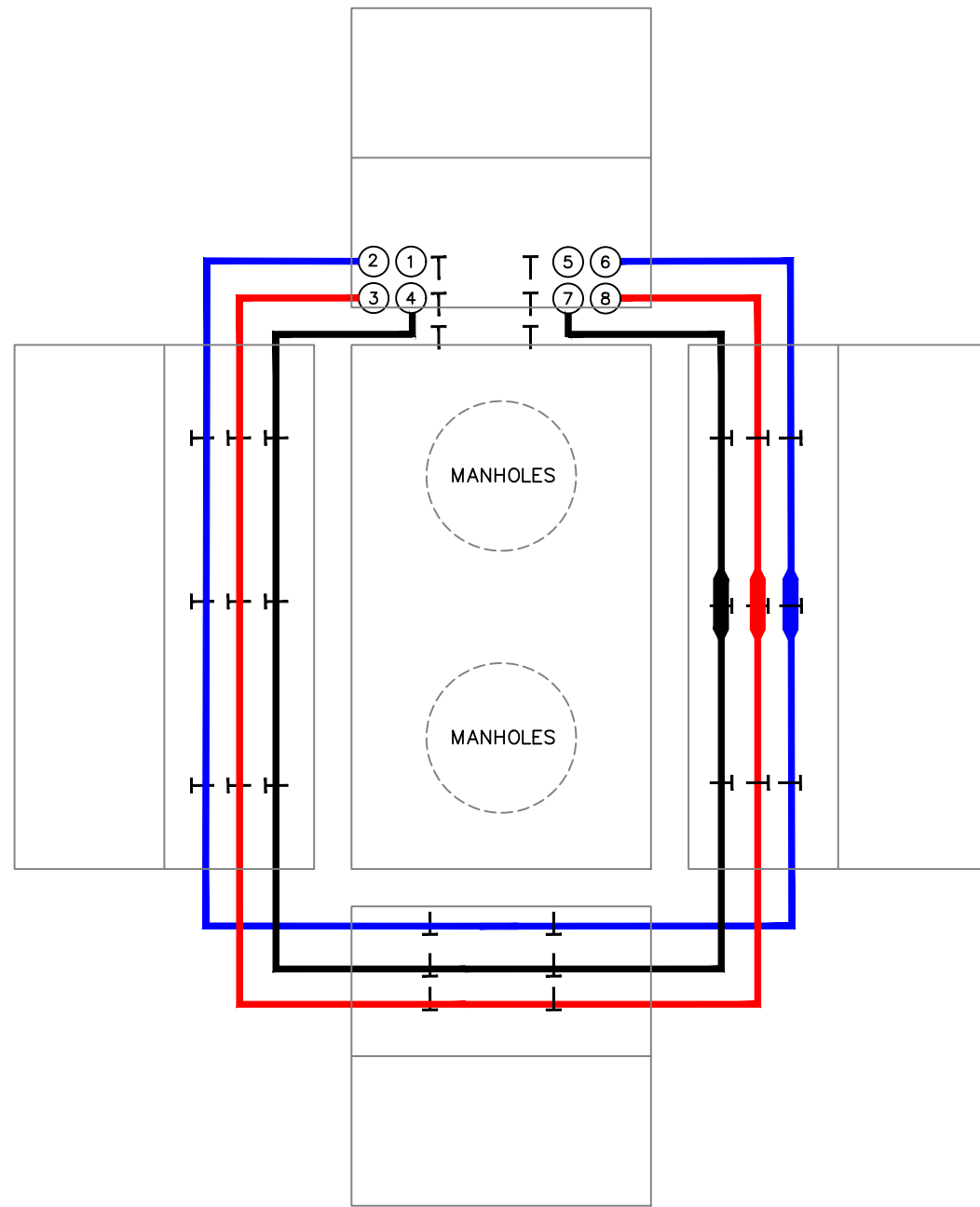
34.5kV SUBTRANSMISSION
BRAGAW TO E.6TH
PLAN, PROFILE, & ROW
STRUCTURE 9999 TO STRUCTURE 6999

W.O. NO.:

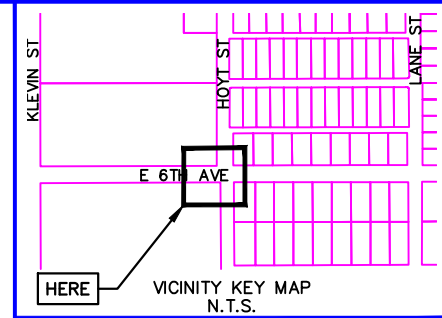
E2320073

E2320073.dwg

VAULT SIZE $\frac{14' \times 8' \times 8'}{\text{WIDTH LENGTH HEIGHT}}$

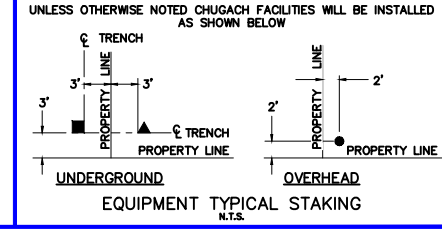


DUCT	SIZE	DESCRIPTION	SEQ
1	4"	VACANT TO VAULT 1235-2698	
2	4"	35kV 1000 CONC TO VAULT 1235-2698	
3	4"	35kV 1000 CONC TO VAULT 1235-2698	
4	4"	35kV 1000 CONC TO VAULT 1235-2698	
5	4"	VACANT TO VAULT 1336-7999	
6	4"	35kV 1000 CONC TO VAULT 1336-7999	
7	4"	35kV 1000 CONC TO VAULT 1336-7999	
8	4"	35kV 1000 CONC TO VAULT 1336-7999	
9			
10			
11			
12			
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NEW	EXISTING	DESC.
		VAULT
		JUNCTION BOX
		SWITCH CABINET
		PULLBOX
		PADMOUNT XFMR
		FUSED JUNCTION BOX
		PRIMARY METER
		HANDHOLE
		PEDESTAL
		NON-CEA POLE
		POLE
		LIGHT
		DOWN GUY
		FUSE
		SPLICE POINT
		1Ø OH XFMR
		DELTA OH XFMR
		3Ø OH XFMR
		FIBER OPTIC
		O.H. XMSSN
		U.G. XMSSN
		SPAN GUY
		CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
		U.G. SECONDARY
		U.G. SERVICE
		1Ø O.H. PRIMARY
		2Ø O.H. PRIMARY
		3Ø O.H. PRIMARY
		R.O.W. EASEMENT LINE
		CENTERLINE OF TRENCH

COLOR LEGEND	
	NEW
	REFERENCE
	EXISTING
	RETIRE
	ABANDON



NOTES:

REV: 0
DATE: 11/02/24
BY: M. ELLIOTT

ACAD File Name:

VAULT 1336-5099
1336-HOYT & E.6TH

VAULT DETAILS

PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	JM 6/15/26

ENG. STAMP



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

DRAWING NAME:

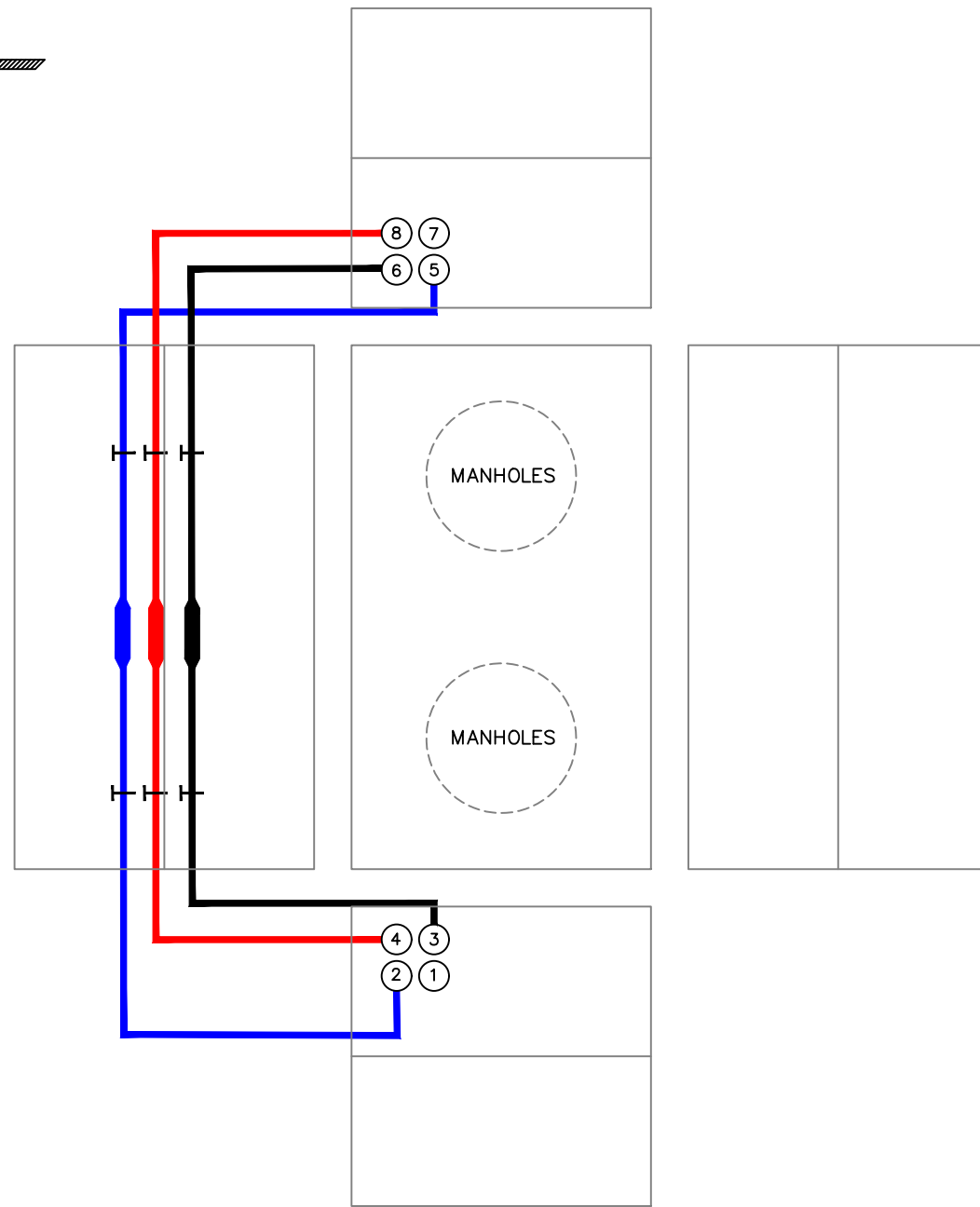
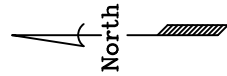
34.5kV SUBTRANSMISSION
BRAGAW TO E.6TH
PLAN, PROFILE, & ROW
STRUCTURE 9999 TO STRUCTURE 6999

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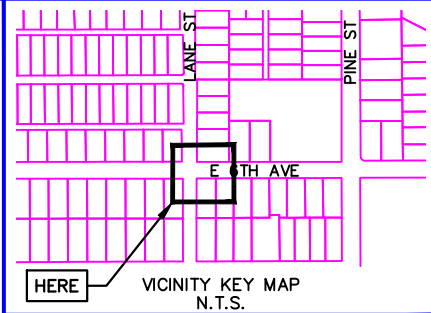
E2320073

E2320073.dwg

VAULT SIZE $\frac{14' \times 8' \times 8'}{\text{WIDTH LENGTH HEIGHT}}$

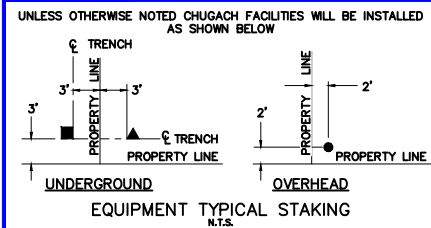


DUCT	SIZE	DESCRIPTION	SEQ
1	4"	VACANT TO VAULT 1336-5099	
2	4"	35kV 1000 CONC TO VAULT 1336-5099	
3	4"	35kV 1000 CONC TO VAULT 1336-5099	
4	4"	35kV 1000 CONC TO VAULT 1336-5099	
5	4"	35kV 1000 CONC TO VAULT 1337-2498	
6	4"	35kV 1000 CONC TO VAULT 1337-2498	
7	4"	VACANT TO VAULT 1337-2498	
8	4"	35kV 1000 CONC TO VAULT 1337-2498	
9			
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NEW	EXISTING	DESC.
		VAULT
		JUNCTION BOX
		SWITCH CABINET
		PULLBOX
		PADMOUNT XFMR
		FUSED JUNCTION BOX
		PRIMARY METER
		HANDHOLE
		PEDESTAL
		NON-CEA POLE
		POLE
		LIGHT
		DOWN GUY
		FUSE
		SPLICE POINT
		1Ø OH XFMR
		DELTA OH XFMR
		3Ø OH XFMR
		FIBER OPTIC
		O.H. XMSSN
		U.G. XMSSN
		SPAN GUY
		CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
		U.G. SECONDARY
		U.G. SERVICE
		1Ø O.H. PRIMARY
		2Ø O.H. PRIMARY
		3Ø O.H. PRIMARY
		R.O.W. EASEMENT LINE
		CENTERLINE OF TRENCH

COLOR LEGEND	
	NEW
	REFERENCE
	EXISTING
	RETIRE
	ABANDON



NOTES:

REV: 0
DATE: 11/02/24
BY: M. ELLIOTT

ACAD File Name:

VAULT 1336-7999
1336-LANE ST. & E. 6 AVE

VAULT DETAILS

PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV <i>ME & VK</i>		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	<i>JM</i> 6/15/26

ENG. STAMP



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

DRAWING NAME:

**34.5kV SUBTRANSMISSION
BRAGAW TO E.6TH
PLAN, PROFILE, & ROW
STRUCTURE 9999 TO STRUCTURE 6999**

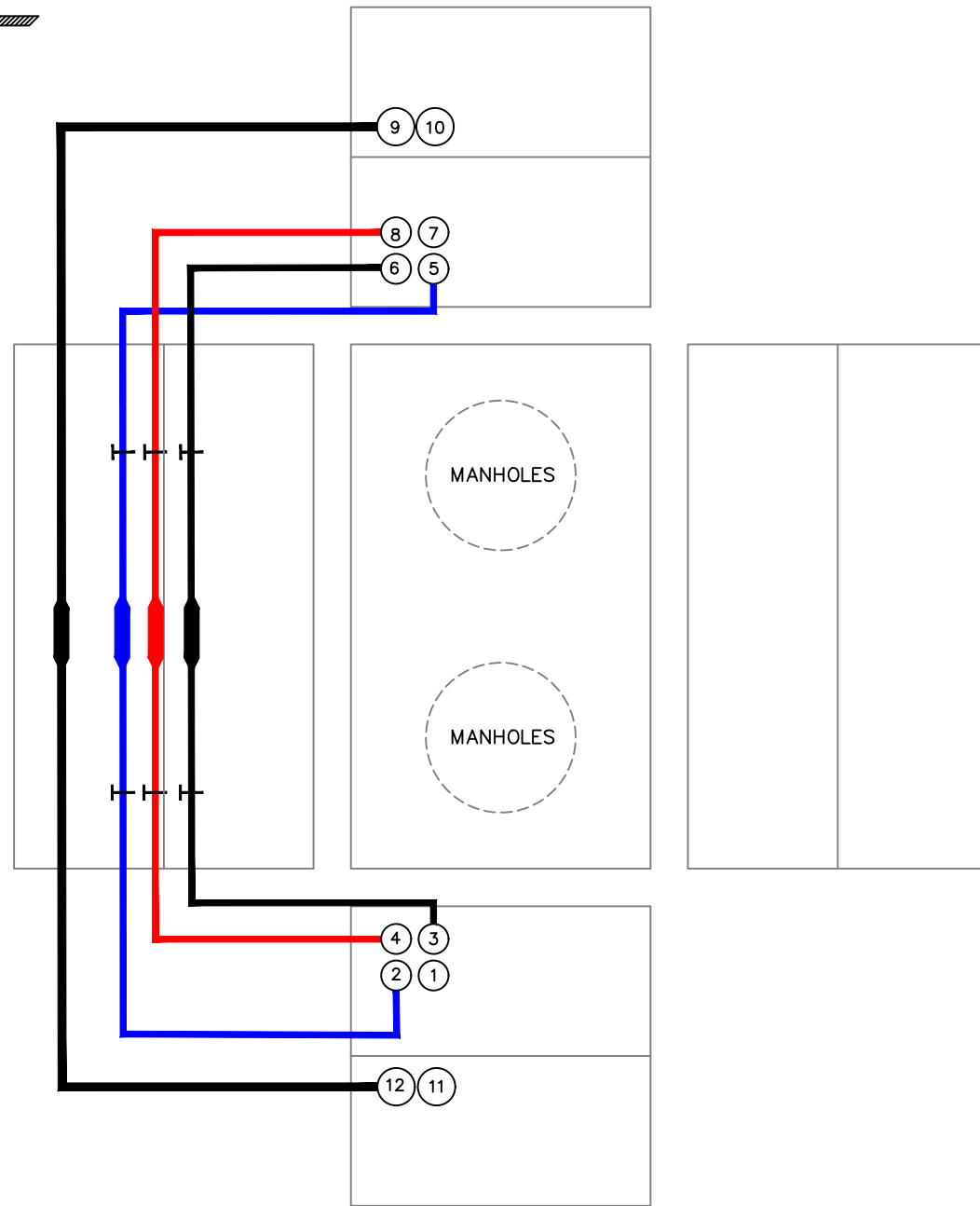
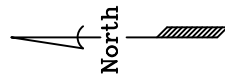
W.O. NO.:

E2320073

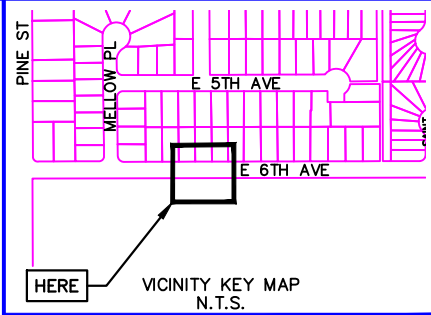
E2320073.dwg

PAGE 15 OF 24

VAULT SIZE $\frac{8' \times 14' \times 8'}{\text{WIDTH LENGTH HEIGHT}}$

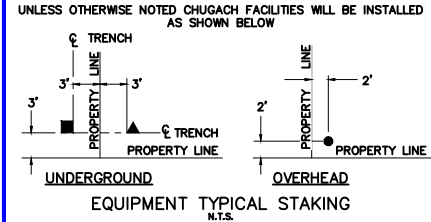


DUCT	SIZE	DESCRIPTION	SEQ
1	4"	VACANT TO VAULT 1336-7999	
2	4"	35kV 1000 CONC TO VAULT 1336-7999	
3	4"	35kV 1000 CONC TO VAULT 1336-7999	
4	4"	35kV 1000 CONC TO VAULT 1336-7999	
5	4"	35kV 1000 CONC TO VAULT 1337-6298	
6	4"	35kV 1000 CONC TO VAULT 1337-6298	
7	4"	VACANT TO VAULT 1337-6298	
8	4"	35kV 1000 CONC TO VAULT 1337-6298	
9	6"	15kV 750 CONC TO SC 1269, COMP 1	
10	6"	VACANT TO SC 1269	
11	6"	VACANT TO SC 1266	
12	6"	15kV 750 CONC TO SC 1266, COMP 2	
13			
14			
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NEW	EXISTING	DESC.
		VAULT
		JUNCTION BOX
		SWITCH CABINET
		PULLBOX
		PADMOUNT XFMR
		FUSED JUNCTION BOX
		PRIMARY METER
		HANDHOLE
		PEDESTAL
		NON-CEA POLE
		POLE
		LIGHT
		DOWN GUY
		FUSE
		SPLICE POINT
		1Ø OH XFMR
		DELTA OH XFMR
		3Ø OH XFMR
		FIBER OPTIC
		O.H. XMSSN
		U.G. XMSSN
		SPAN GUY
		CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
		U.G. SECONDARY
		U.G. SERVICE
		1Ø O.H. PRIMARY
		2Ø O.H. PRIMARY
		3Ø O.H. PRIMARY
		R.O.W. EASEMENT LINE
		CENTERLINE OF TRENCH

COLOR LEGEND	
	NEW
	REFERENCE
	EXISTING
	RETIRE
	ABANDON



NOTES:

REV: 0
DATE: 03/11/26
BY: M. ELLIOTT

ACAD File Name:

VAULT 1337-2498
1337-RUSSIAN JACK SPRINGS PARK

VAULT DETAILS

PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV <i>ME & VK</i>		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/26	<i>jm</i> 6/15/26

ENG. STAMP



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

DRAWING NAME:

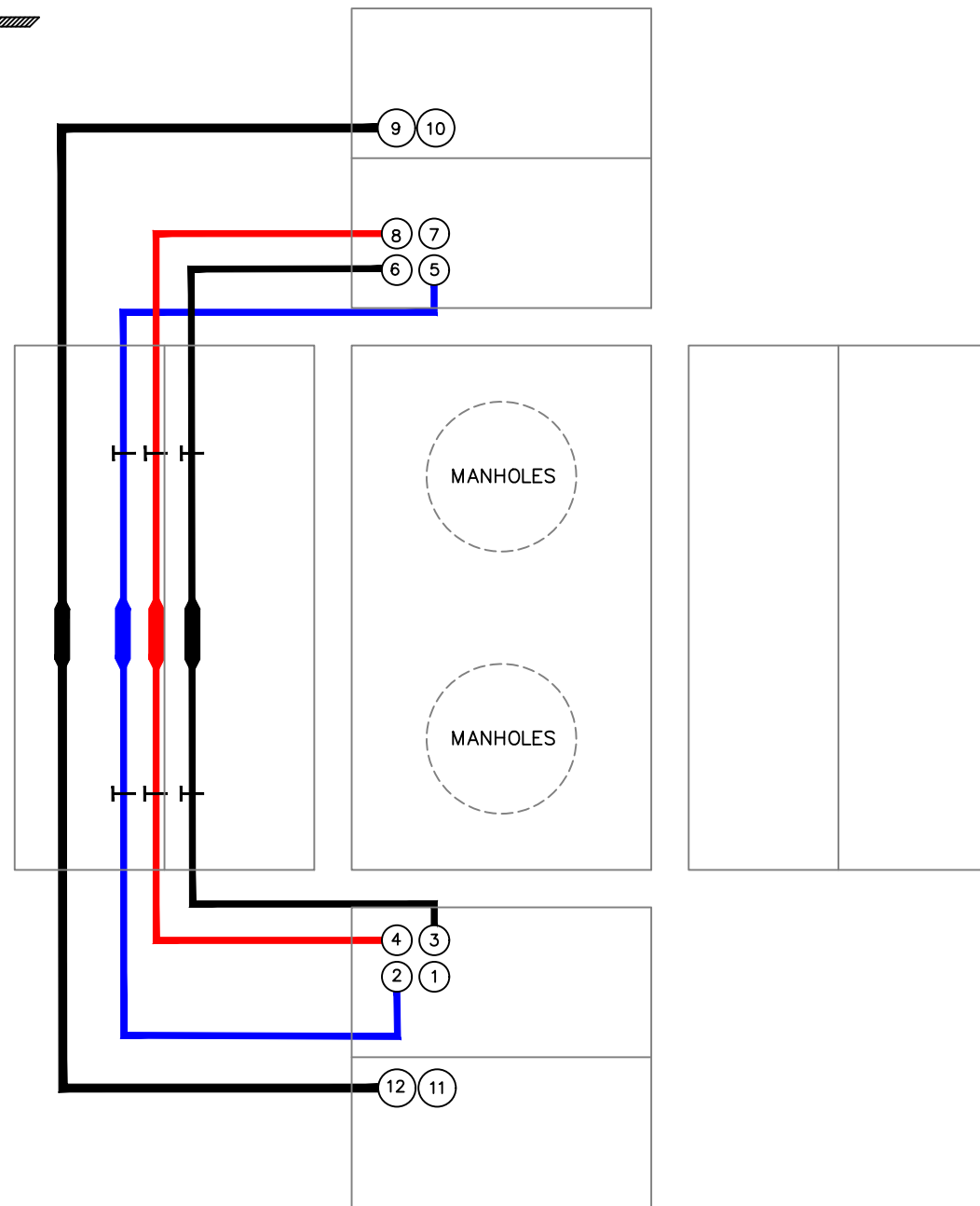
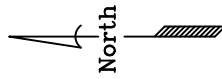
34.5kV SUBTRANSMISSION
BRAGAW TO E.6TH
PLAN, PROFILE, & ROW
STRUCTURE 9999 TO STRUCTURE 6999

W.O. NO.:

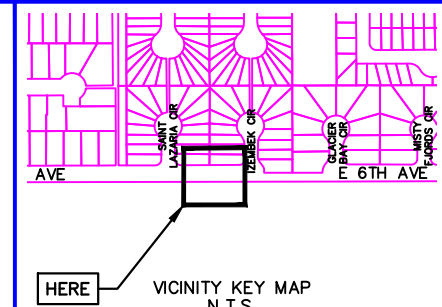
E2320073

E2320073.dwg

VAULT SIZE 8' x 14' x 8'
WIDTH LENGTH HEIGHT

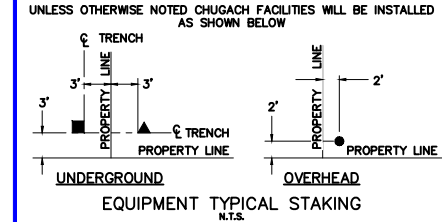


DUCT	SIZE	DESCRIPTION	SEQ
1	4"	VACANT TO VAULT 1337-2498	
2	4"	35kV 1000 CONC TO VAULT 1337-2498	
3	4"	35kV 1000 CONC TO VAULT 1337-2498	
4	4"	35kV 1000 CONC TO VAULT 1337-2498	
5	4"	35kV 1000 CONC TO VAULT 1337-9498	
6	4"	35kV 1000 CONC TO VAULT 1337-9498	
7	4"	VACANT TO VAULT 1337-9498	
8	4"	35kV 1000 CONC TO VAULT 1337-9498	
9	6"	15kV 750 CONC TO SC 1267, COMP. 2 VIA VAULT 1337-9498	
10	6"	VACANT TO VAULT 1337-9498	
11	6"	VACANT TO SC 1269	
12	6"	15kV 750 CONC TO SC 1269, COMP. 2	
13			
14			
15			
16			
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NEW	EXISTING	DESC.
V	V	VAULT
J	J	JUNCTION BOX
S	S	SWITCH CABINET
P	P	PULLBOX
F	F	PADMOUNT XFMR
M	M	FUSED JUNCTION BOX
▲	▲	PRIMARY METER
▲	▲	HANDHOLE
⊗	⊗	PEDESTAL
⊗	⊗	NON-CEA POLE
●	●	POLE
●*	●*	LIGHT
↘	↘	DOWN GUY
~	~	FUSE
◆	◆	SPLICE POINT
⌵	⌵	1Ø OH XFMR
⌵⌵	⌵⌵	DELTA OH XFMR
⌵⌵⌵	⌵⌵⌵	3Ø OH XFMR
FO	FO	FIBER OPTIC
///	///	O.H. XMSSN
-//-	-//-	U.G. XMSSN
X	X	SPAN GUY
---	---	CONDUIT DIAMETER
+	+	1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
---	---	U.G. SECONDARY
---	---	U.G. SERVICE
---	---	1Ø O.H. PRIMARY
---	---	2Ø O.H. PRIMARY
---	---	3Ø O.H. PRIMARY
---	---	R.O.W. EASEMENT LINE
---	---	CENTERLINE OF TRENCH

COLOR	LEGEND
Black	NEW
Grey	REFERENCE
Magenta	EXISTING
Green	RETIRE
Red	ABANDON



NOTES: REV: 0 DATE: 03/11/26 BY: M. ELLIOTT

VAULT 1337-6298

ACAD File Name: ST. LAZARIA CIR & IZEMBEK CIR, S.SIDE OF 6TH AVE.

VAULT DETAILS

PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/26	gm 6/15/26

ENG. STAMP

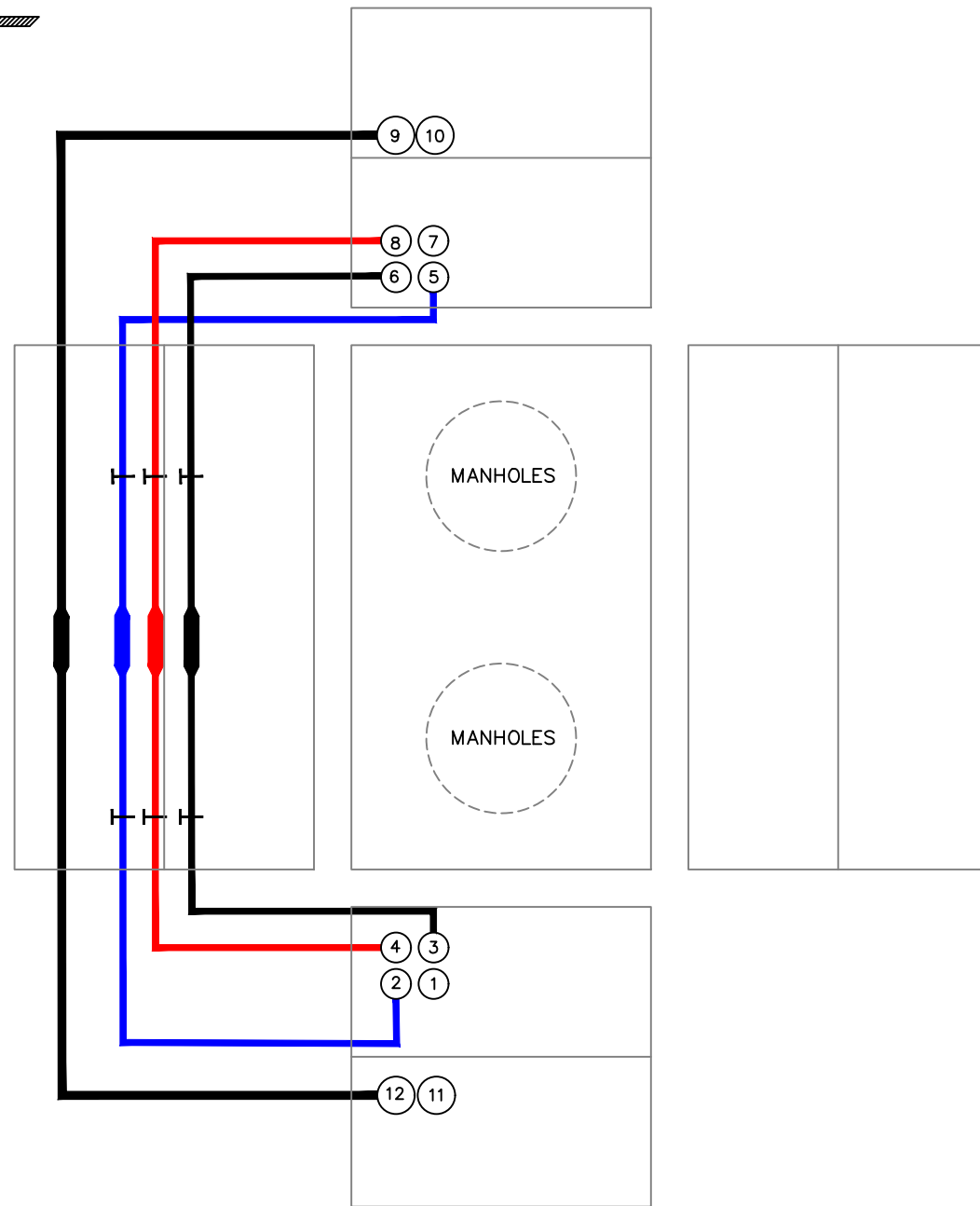
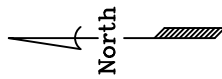
Chugach Electric Association, Inc.
5601 Electron Drive - P.O. Box 196300
Anchorage, Alaska 99519-6300

DRAWING NAME: 34.5kV SUBTRANSMISSION BRAGAW TO E.6TH PLAN, PROFILE, & ROW STRUCTURE 9999 TO STRUCTURE 6999

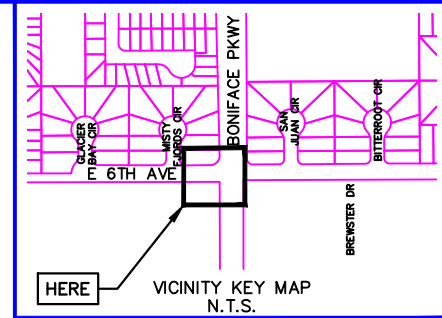
W.O. NO.: E2320073

E2320073.dwg
PAGE 17 OF 24

VAULT SIZE 8' x 14' x 8'
WIDTH LENGTH HEIGHT



DUCT	SIZE	DESCRIPTION	SEQ
1	4"	VACANT TO VAULT 1337-6298	
2	4"	35kV 1000 CONC TO VAULT 1337-6298	
3	4"	35kV 1000 CONC TO VAULT 1337-6298	
4	4"	35kV 1000 CONC TO VAULT 1337-6298	
5	4"	35kV 1000 CONC TO VAULT 1338-4499	
6	4"	35kV 1000 CONC TO VAULT 1338-4499	
7	4"	VACANT TO VAULT 1338-4499	
8	4"	35kV 1000 CONC TO VAULT 1338-4499	
9	6"	15kV 750 CONC TO SC 1267, COMP. 2	
10	6"	VACANT TO SC 1267	
11	6"	VACANT TO VAULT 1337-6298	
12	6"	15kV 750 CONC TO SC 1269, COMP. 2 VIA V1337-6298	
13			
14			
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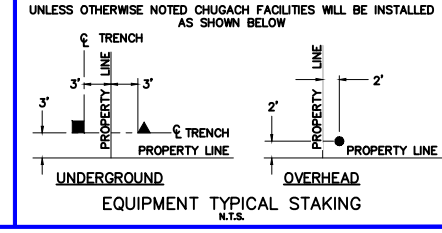


LEGEND

NEW	EXISTING	DESC.
		VAULT
		JUNCTION BOX
		SWITCH CABINET
		PULLBOX
		PADMOUNT XFMR
		FUSED JUNCTION BOX
		PRIMARY METER
		HANDHOLE
		PEDESTAL
		NON-CEA POLE
		POLE
		LIGHT
		DOWN GUY
		FUSE
		SPLICE POINT
		1Ø OH XFMR
		DELTA OH XFMR
		3Ø OH XFMR
		FIBER OPTIC
		O.H. XMSSN
		U.G. XMSSN
		SPAN GUY
		CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
		U.G. SECONDARY
		U.G. SERVICE
		1Ø O.H. PRIMARY
		2Ø O.H. PRIMARY
		3Ø O.H. PRIMARY
		R.O.W. EASEMENT LINE
		CENTERLINE OF TRENCH

COLOR LEGEND

LINE STYLE	DESCRIPTION
	NEW
	REFERENCE
	EXISTING
	RETIRE
	ABANDON



NOTES:

REV: 0
DATE: 03/11/26
BY: M. ELLIOTT

VAULT 1337-9498
S/W CORNER OF BONIFACE & E.6TH AVE

ACAD File Name:

VAULT DETAILS

PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	Jm 6/15/26

ENG. STAMP



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

DRAWING NAME:

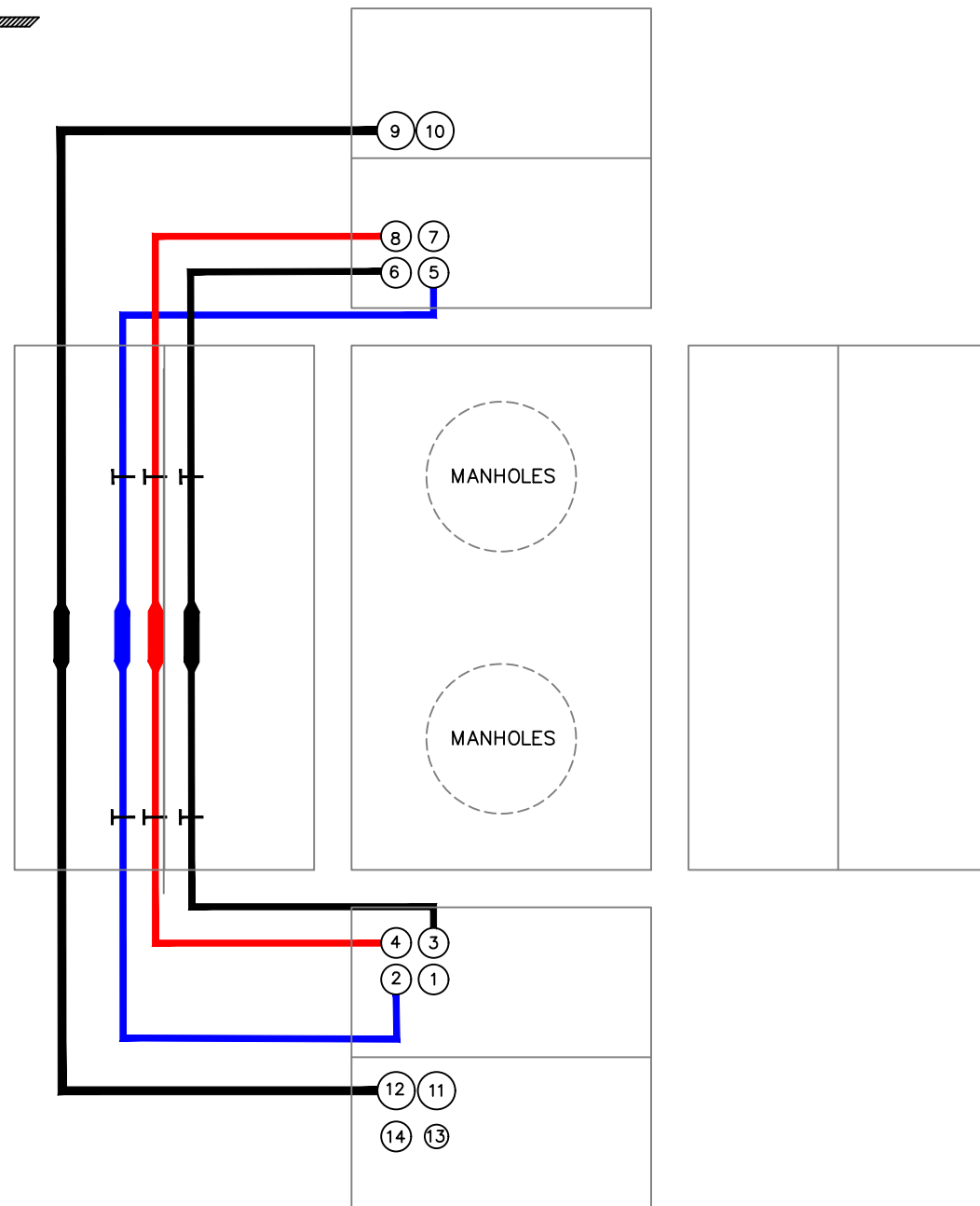
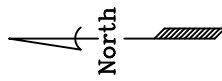
34.5kV SUBTRANSMISSION
BRAGAW TO E.6TH
PLAN, PROFILE, & ROW
STRUCTURE 9999 TO STRUCTURE 6999

W.O. NO.:

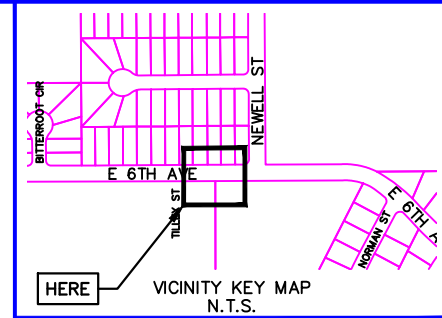
E2320073

E2320073.dwg

VAULT SIZE 8' x 14' x 8'
WIDTH LENGTH HEIGHT

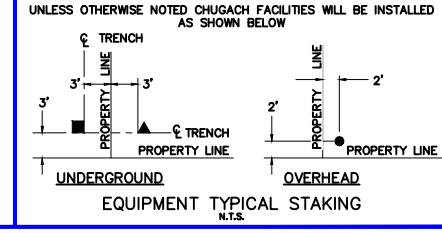


DUCT	SIZE	DESCRIPTION	SEQ
1	4"	VACANT TO VAULT 1337-9498	
2	4"	35kV 1000 CONC TO VAULT 1337-9498	
3	4"	35kV 1000 CONC TO VAULT 1337-9498	
4	4"	35kV 1000 CONC TO VAULT 1337-9498	
5	4"	VACANT TO VAULT 1338-6498	
6	4"	35kV 1000 CONC TO VAULT 1338-6498	
7	4"	35kV 1000 CONC TO VAULT 1338-6498	
8	4"	35kV 1000 CONC TO VAULT 1338-6498	
9	6"	15kV 750 CONC TO SC 1268, COMP. 2 VIA VAULT 1338-6498	
10	6"	VACANT TO VAULT 1338-6498	
11	6"	VACANT TO SC 1267	
12	6"	15kV 750 CONC TO SC 1267, COMP. 1	
13	2"	VACANT TO SC 1267	
14	4"	VACANT TO SC 1267	
15			
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NEW	EXISTING	DESC.
		VAULT
		JUNCTION BOX
		SWITCH CABINET
		PULLBOX
		PADMOUNT XFMR
		FUSED JUNCTION BOX
		PRIMARY METER
		HANDHOLE
		PEDESTAL
		NON-CEA POLE
		POLE
		LIGHT
		DOWN GUY
		FUSE
		SPLICE POINT
		1Ø OH XFMR
		DELTA OH XFMR
		3Ø OH XFMR
		FIBER OPTIC
		O.H. XMSSN
		U.G. XMSSN
		SPAN GUY
		CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
		U.G. SECONDARY
		U.G. SERVICE
		1Ø O.H. PRIMARY
		2Ø O.H. PRIMARY
		3Ø O.H. PRIMARY
		R.O.W. EASEMENT LINE
		CENTERLINE OF TRENCH

COLOR LEGEND	
	NEW
	REFERENCE
	EXISTING
	RETIRE
	ABANDON



NOTES:

REV: 0
DATE: 03/11/26
BY: M. ELLIOTT

VAULT 1338-4499

ACAD File Name: 100' EAST OF TILLEX ST. & E. 6TH, SOUTH SIDE

VAULT DETAILS

PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	JM 6/15/26

ENG. STAMP



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

DRAWING NAME:

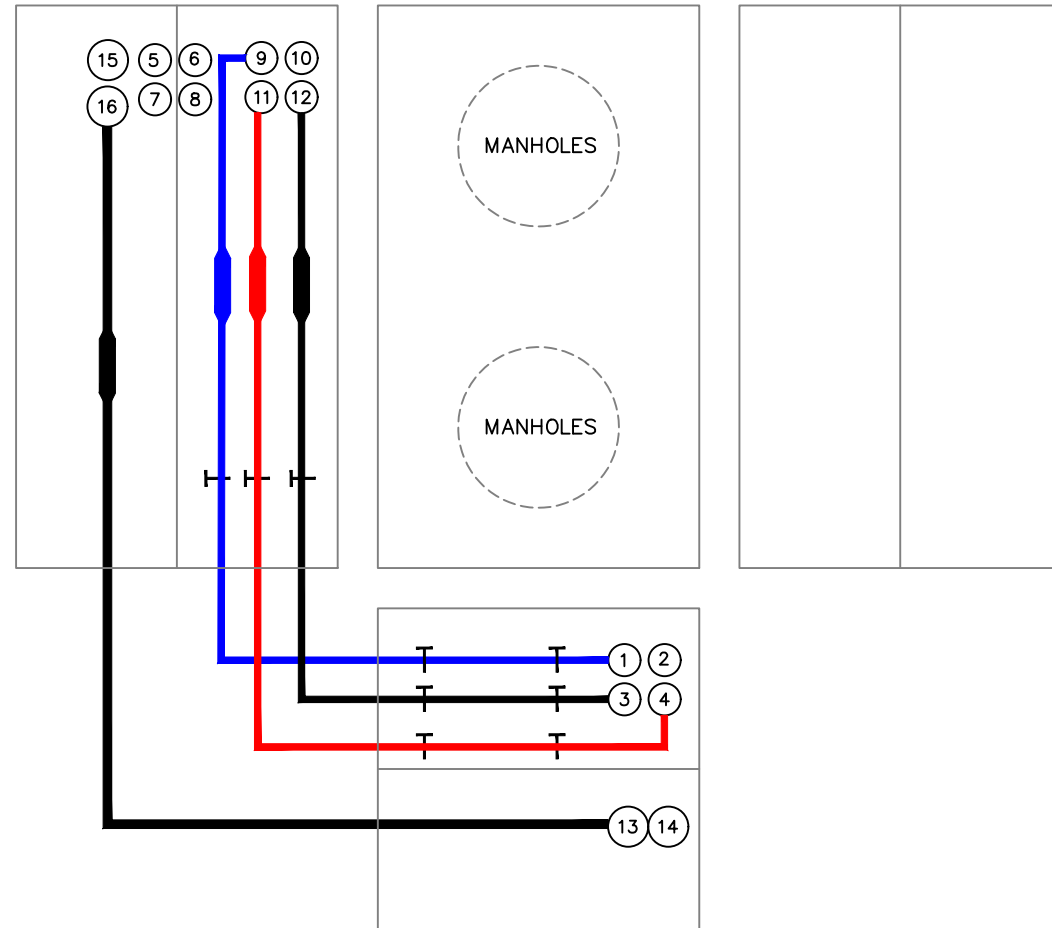
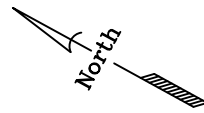
34.5kV SUBTRANSMISSION
BRAGAW TO E.6TH
PLAN, PROFILE, & ROW
STRUCTURE 9999 TO STRUCTURE 6999

W.O. NO.:

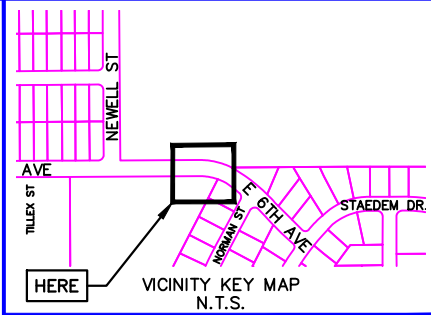
E2320073

E2320073.dwg

VAULT SIZE $8' \times 14' \times 8'$
WIDTH LENGTH HEIGHT

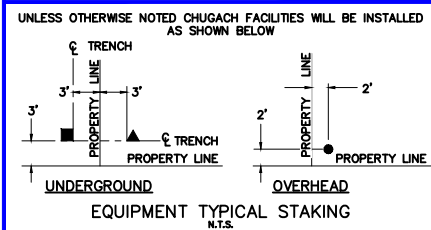


DUCT	SIZE	DESCRIPTION	SEQ
1	4"	35kV 1000 CONC TO VAULT 1338-4499	
2	4"	VACANT TO VAULT 1338-4499	
3	4"	35kV 1000 CONC TO VAULT 1338-4499	
4	4"	35kV 1000 CONC TO VAULT 1338-4499	
5	4"	VACANT EAST 305' TO END CONDUIT	
6	4"	VACANT EAST 305' TO END CONDUIT	
7	4"	VACANT EAST 305' TO END CONDUIT	
8	4"	VACANT EAST 305' TO END CONDUIT	
9	4"	35kV 1000 CONC TO POLE 6999	
10	4"	VACANT TO VAULT POLE 6999	
11	4"	35kV 1000 CONC TO POLE 6999	
12	4"	35kV 1000 CONC TO POLE 6999	
13	6"	15kV 750 CONC TO SC 1267, COMP. 1 VIA VAULT 1338-4449	
14	6"	VACANT TO VAULT 1338-4499	
15	6"	VACANT TO SC 1268	
16	6"	15kV 750 CONC TO SC 1268, COMP. 2	
17			
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NEW	EXISTING	DESC.
		VAULT
		JUNCTION BOX
		SWITCH CABINET
		PULLBOX
		PADMOUNT XFMR
		FUSED JUNCTION BOX
		PRIMARY METER
		HANDHOLE
		PEDESTAL
		NON-CEA POLE
		POLE
		LIGHT
		DOWN GUY
		FUSE
		SPLICE POINT
		1Ø OH XFMR
		DELTA OH XFMR
		3Ø OH XFMR
		FIBER OPTIC
		O.H. XMSSN
		U.G. XMSSN
		SPAN GUY
		CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
		U.G. SECONDARY
		U.G. SERVICE
		1Ø O.H. PRIMARY
		2Ø O.H. PRIMARY
		3Ø O.H. PRIMARY
		R.O.W. EASEMENT LINE
		CENTERLINE OF TRENCH

COLOR LEGEND	
	NEW
	REFERENCE
	EXISTING
	RETIRE
	ABANDON



NOTES:

REV: 0
DATE: 03/11/26
BY: M. ELLIOTT

VAULT 1338-6498

ACAD File Name: 100' WEST OF NORMAN ST. & E.6TH, SOUTH SIDE

VAULT DETAILS

PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	Jm 6/15/26

ENG. STAMP



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

DRAWING NAME:

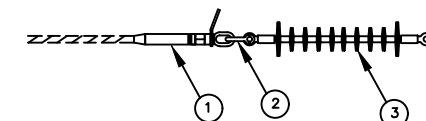
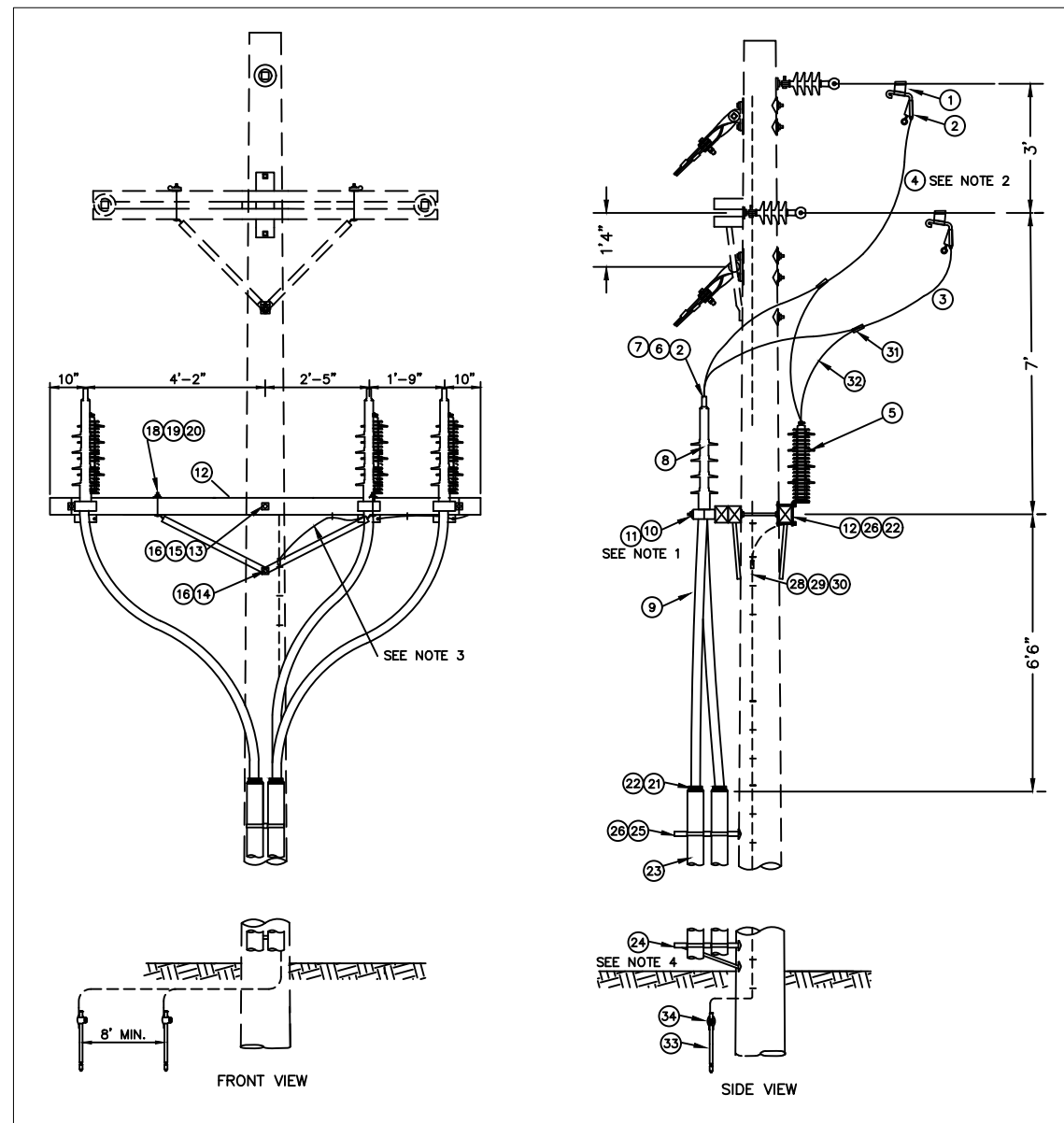
34.5kV SUBTRANSMISSION
BRAGAW TO E.6TH
PLAN, PROFILE, & ROW
STRUCTURE 9999 TO STRUCTURE 6999

W.O. NO.:

E2320073

E2320073.dwg

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MATERIAL LIST - TM-1D			
DRG. REF.	QTY	DESCRIPTION	CODE DET. NO.
1	1	Clamp, Compression, Deadend, 266.8 ACSR ALCOA Body #_____ and Steel Eye#_____ CEA Assembly #832	
2	1	Shackle, Anchor, 5/8", 30,000 lbs., with bolt pin, nut, and cotter. CEA #957	
3	1	Insulator, Suspension, Composite, 35kV, 15,000 lbs., Salisbury #9503U-S1 CEA #3317	

- NOTES:
1. SECURE THE BASES OF THE CABLE CLEATS TO THE DOUBLE CROSSARMS WITH 12M STAINLESS STEEL THREADED ROD.
 2. COVER CENTER PRIMARY JUMPER FROM STUD DISCONNECT DOWN TO, AND OVER PADDLE AT TERMINATION AND FROM ARRESTOR LEAD TAP TO AND OVER ITS TERMINAL.
 3. GROUND ARRESTORS AND TERMINATIONS BLEED WIRES TO POLE GROUND.
 4. MAINTAIN A MINIMUM OF 8'-6" SEPARATION BETWEEN BOTTOMMOST STAND-OFF BRACKETS.

MATERIAL LIST - TUC7		
Item	Qty.	DESCRIPTION
1	3	KIT, DISCONNECT, JUMPER STUD, AMPACT WEDGE CONNECTOR CEA #1567
2	6	NEMA 2-HOLE PADDLE, 4/0, HOMAC #4/0-N
3	-	PRIMARY JUMPER CONDUCTOR, 4/0 B&S, AS REQ'D
4	-	TAPE, HIGH VOLTAGE BUSBAR INSULATION HVBT, TE #CM8539-000
5	3	SURGE ARRESTOR, INTERMEDIATE CLASS, MCOV 36.5kV CEA #18950
6	3	NEMA 2-HOLE PADDLE, 1000 MCM, SHEAR BOLT TYPE, TE #1099585-1 CEA #18960
7	6	STAINLESS STEEL 1/2" BOLT x LENGTH AS REQ'D, (2) BELLEVILLE WASHERS, AND FULL NUT CEA #18219
8	3	TERMINATION, OUTDOOR, 35kV, FOR 1000 MCM CABLE, RAYCHEM #HVT-Z-254/354-SG CEA #14807
9	-	CABLE, 35kV, 1000 MCM, CU, 420 MIL EPR, AS REQ'D CEA #18219
10	3	CABLE CLEAT, RAYCHEM #CC60-70-FM-M12 CEA #15860
11	6	STAINLESS STEEL: THREADED ROD, 12M x10" LENGTH, W/ 12M WASHER, LOCK WASHER, FULL NUT
12	3	CROSSARM, 3 5/8" x 4 5/8" x 10'-0"
13	3	BOLT, DA, 5/8" x REQ'D LENGTH
14	1	BOLT, MACHINE, 5/8" x REQ'D LENGTH
15	10	WASHER, 2-1/4" SQUARE WITH 11/16" HOLE
16	-	LOCKNUTS, 5/8, AS REQ'D
17	4	BRACE, WOOD 60'
18	4	BOLT, MACHINE, 1/2" x REQ'D LENGTH
19	4	WASHER, 1/2", ROUND 9/16" HOLE
20	-	LOCKNUTS, 1/2, AS REQ'D
21	1	DUCT PLUG, 4" BLANK, CALAM 5120-40L
22	3	DUCT/CABLE SEAL, 4", CALAM 7140-245
23	-	CONDUIT, FIBERGLASS, 4" HEAVYWALL (10') WITH BELL END, QTY AS REQ'D CEA #19879
24	1	STAND-OFF BRACKET, GALV. STEEL, 18" MAXIMUM SUPPORT
25	-	STAND-OFF BRACKET, GALV. STEEL, 18" LONG, WILCOR #WA18DB, AS REQ'D, MIN OF 1 PER 10'
26	-	CLAMP, CONDUIT, HOT-DIP GALVANIZED STEEL, CHANCE #CSTK4
27	-	SREW, LAG FETTERS, 1/2" x 4 1/2" LONG, QTY AS REQ'D
28	-	GROUND WIRE, 2/0 B&S, QTY AS REQUIRED
29	-	COPPER COMPRESSION CONNECTORS, BURNDY #YC26C26, QTY AS REQ'D
30	-	STAPLES, COPPER CLAD STEEL, QTY AS REQUIRED
31	3	COPPER COMPRESSION CONNECTORS, BURNDY #YC28C2, QTY AS REQ'D
32	-	#2 BARE, STRANDED COPPER
33	2	GROUND ROD, 3/4" x 8'
34	-	CLAMP, GROUND ROD, 3/4"

TUC7

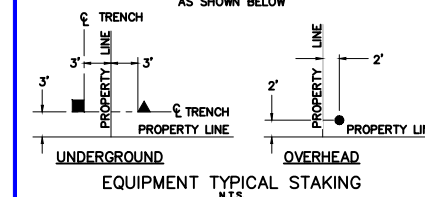
VICINITY KEY MAP
N.T.S.

NEW	EXISTING	LEGEND	DESC.
V	V	V	VAULT
J	J	J	JUNCTION BOX
S	S	S	SWITCH CABINET
P	P	P	PULLBOX
F	F	F	PADMOUNT XFMR
M	M	M	FUSED JUNCTION BOX
▲	▲	▲	PRIMARY METER
▲	▲	▲	HANDHOLE
⊗	⊗	⊗	PEDESTAL
●	●	●	NON-CEA POLE
●	●	●	POLE
●	●	●	LIGHT
↓	↓	↓	DOWN GUY
~	~	~	FUSE
◇	◇	◇	SPLICE POINT
⌞	⌞	⌞	1Ø OH XFMR
⌞⌞	⌞⌞	⌞⌞	DELTA OH XFMR
⌞⌞⌞	⌞⌞⌞	⌞⌞⌞	3Ø OH XFMR
FO	FO	FO	FIBER OPTIC
///	///	///	O.H. XMSSN
---//---	---//---	---//---	U.G. XMSSN
X	X	X	SPAN GUY
---	---	---	CONDUIT DIAMETER
			1Ø U.G. PRIMARY
			2Ø U.G. PRIMARY
			3Ø U.G. PRIMARY
---	---	---	U.G. SECONDARY
---	---	---	U.G. SERVICE
---	---	---	1Ø O.H. PRIMARY
---	---	---	2Ø O.H. PRIMARY
---	---	---	3Ø O.H. PRIMARY
---	---	---	R.O.W. EASEMENT LINE
---	---	---	CENTERLINE OF TRENCH

COLOR LEGEND

---	NEW
---	REFERENCE
---	EXISTING
---	RETIRE
---	ABANDON

UNLESS OTHERWISE NOTED CHUGACH FACILITIES WILL BE INSTALLED AS SHOWN BELOW



FRAMING DETAIL
POLE 6669

ENG. STAMP



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

DRAWING NAME:

34.5kV SUBTRANSMISSION
BRAGAW TO E.6TH
PLAN, PROFILE, & ROW
STRUCTURE 9999 TO STRUCTURE 6999

W.O. NO.:

E2320073

E2320073.dwg

PAGE 21 OF 24

PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
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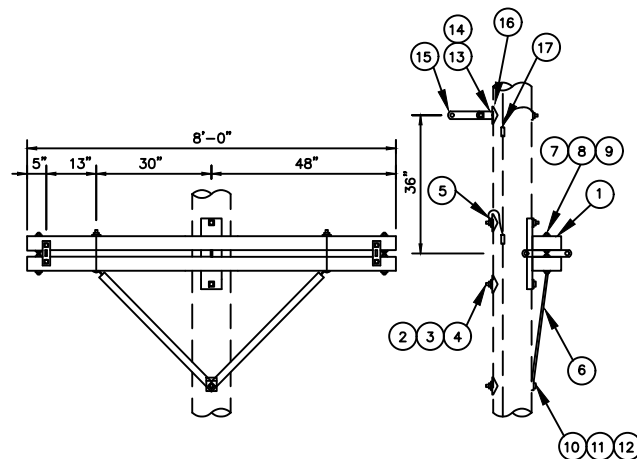
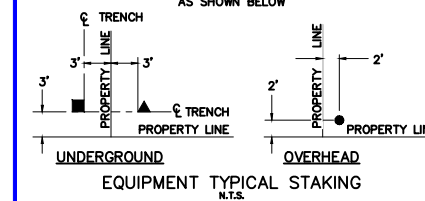
VICINITY KEY MAP
N.T.S.

LEGEND		DESC.
NEW	EXISTING	
		VAULT
		JUNCTION BOX
		SWITCH CABINET
		PULLBOX
		PADMOUNT XFMR
		FUSED JUNCTION BOX
		PRIMARY METER
		HANDHOLE
		PEDESTAL
		NON-CEA POLE
		POLE
		LIGHT
		DOWN GUY
		FUSE
		SPLICE POINT
		1Ø OH XFMR
		DELTA OH XFMR
		3Ø OH XFMR
		FIBER OPTIC
		O.H. XMSSN
		U.G. XMSSN
		SPAN GUY
		CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
		U.G. SECONDARY
		U.G. SERVICE
		1Ø O.H. PRIMARY
		2Ø O.H. PRIMARY
		3Ø O.H. PRIMARY
		R.O.W. EASEMENT LINE
		CENTERLINE OF TRENCH

COLOR LEGEND

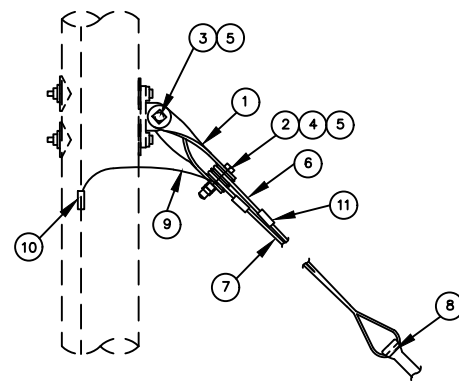
	NEW
	REFERENCE
	EXISTING
	RETIRE
	ABANDON

UNLESS OTHERWISE NOTED CHUGACH FACILITIES WILL BE INSTALLED AS SHOWN BELOW



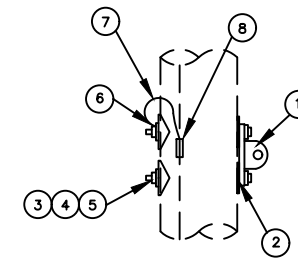
MATERIAL LIST -- TM-1D			
DRG. REF.	QTY	DESCRIPTION	CODE DET. NO.
1	1	Crossarm Deadend Assembly, Hughes Bros. #2892-A, CEA #1618	
2	3	7/8" Bolt, Machine x required length	
3	4	Washer, Curved, 4" Square x 1/4", 15/16" hole, Hughes Bros. #CW80, or approved equal	
4	3	7/8" Locknut, MF Type	
5	2	7/8" Clamp, Ground wire + 1 Nut, Hughes Bros. #2727.8, or approved equal	
6	1pr	Brace, Crossarm, 60" Span, Hughes Bros. #2045-E45-9-11, or approved equal	
7	2	1/2" Bolt, Machine x required length	
8	2	Washer, Round, 1-3/8" dia., 9/16" hole	
9	2	1/2" Locknut, MF Type	
10	1	5/8" Bolt, Machine, x required length	
11	1	Washer, Curved, 4" Square x 1/4", 11/16" hole, Hughes Bros. #CW60, or approved equal	
12	1	5/8" Locknut, MF Type	
13	1	Clevis, Hughes Bros. #AS2277, or approved eq.	
14	1	7/8" Bolt x 4" Long with Hole Drilled for Cotter Key, Hughes Bros. B4D-4 with Cotter Pin.	
15	1	Link, straight, 3/8 x 2", 7-1/2" Hole Centers, 15/16" holes, Hughes Bros #3171, or approved equal	
16	-	Wire, #6 Bare Solid Copper, length as required	
17	2	Connector, Compression, Burndy #YC26C2, or approved equal	

TM-1D



MATERIAL LIST -- TG-24C			
DRG. REF.	QTY	DESCRIPTION	CODE DET. NO.
1	1pr	Attachment, Links, Twisted, Pair, 3/8"x3" 20" Hole Centers, 1-1/16" Holes, Hughes Bros. #3159, CEA 15244	
2	2	Guy Roller, 3-1/4" dia. with 1-1/16" dia hole, Hughes Bros. #28083, or approved equal CEA 15246	
3	1	1" Bolt, Machine x 3-1/2" with 2-1/2" Threaded, Hughes Bros. #B103-1/2-2-1/2, or approved equal	
4	1	1" Bolt, Machine x 5" with 3" Threaded, Hughes Bros. #B105-3, or approved eq.	
5	2	1" Locknut, MF Type	
6	4	Deadend Guy, Preformed Line Products #AWDE-4126	
7	-	Guy Wire, 20M, length as required	
8	2	Clamp, Anchor, Bonding, Twin Eye, 1" Rod	
9	-	Wire, #6 Bare Solid Copper, length as required	
10	1	Connector, Compression, Burndy #YC26C2, or approved equal	
11	2	Connector, Compression, Blackburn #WR289, or approved equal	

TG-24C: DOWN GUY



MATERIAL LIST -- TG-24C			
DRG. REF.	QTY	DESCRIPTION	CODE DET. NO.
1	1	Tee, Deadend, 6" Bolt Centers, 15/16" Bolt holes, 1-1/4" Stem Hole, 60,000 lbs., Hughes Bros. #2817-15, or approved equal.	
2	2	Grid Gain, 4"x4", 31/32" Hole Dia., Hughes Bros. #1263-A, or approved equal	
3	2	7/8" Bolt, Machine x required length	
4	2	Washer, Curved, 4" Square x 1/4", 15/16" hole, Hughes Bros. #CW80, or approved equal	
5	2	7/8" Locknut, MF Type	
6	1	7/8" Clamp, Ground wire + 1 Nut, Hughes Bros. #2727.8, or approved equal	
7	-	Wire, #6 Bare Solid Copper, length as required	
8	1	Connector, Compression, Burndy #YC26C2, or approved equal	

TG-24C

FRAMING DETAIL
POLE 6669

PROJECT: 34.5kV SUBTRANSMISSION -- STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV <i>ME & VK</i>		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
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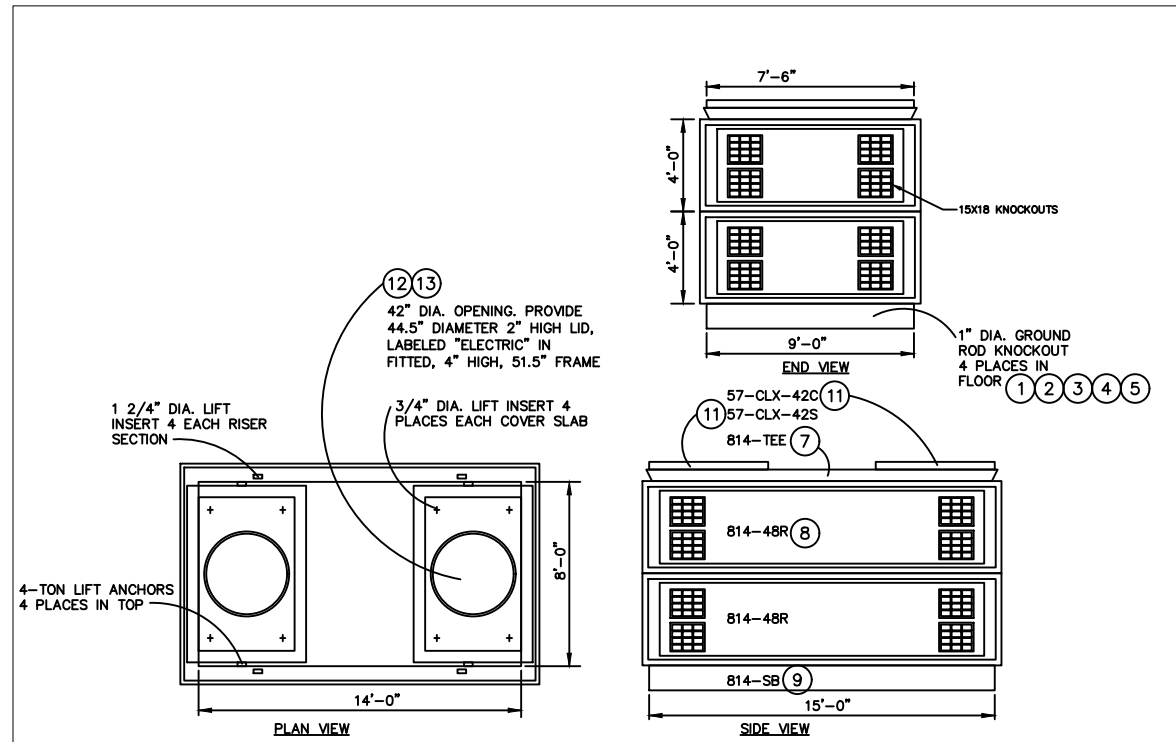
DRAWING NAME:

34.5kV SUBTRANSMISSION
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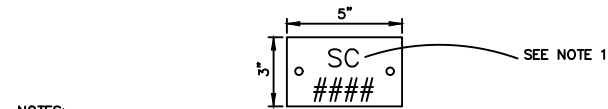


- NOTES:
- LOCATE VAULT AS INDICATED ON PLANS.
 - PROVIDE ALL SUB-UNITS AND ACCESSORIES FOR INDIVIDUAL VAULTS AS LISTED IN THE STAKING SHEETS AND DETAILS.
 - INSTALL TO A MINIMUM DEPTH OF 18", TO THE TOP OF THE VAULT, TO ALLOW FOR FUTURE LOWER GRADE ADJUSTMENTS. THE MANHOLE RING AND COVER SHALL BE MOUNTED FLUSH WITH THE EXISTING GRADE.
 - APPLY RAM-NEK, OR APPROVED EQUAL, JOINT SEALANT TO ALL JOINT SURFACES TO PROVIDE A WATER SEAL.
 - COMPACT THE MANHOLE VAULT FOUNDATION TO A MINIMUM 95% PROCTOR DENSITY. A MINIMUM OF A 6" COURSE OF D-1 SHALL BE ADDED TO ALL FOUNDATIONS. COMPACT SIDE SLOPES AND FILL ABOVE VAULT TO 95% PRIOR TO PAVING OR RE-SEEDING.
 - COMPACT THE BACKFILL IN 12" MAXIMUM LIFTS.
 - GROUT ALL NEW DUCT ENTRANCES, GROUND ROD HOLES, RISER SECTIONS AND MANHOLE FRAMES WITH SIKASET PLUG, OR APPROVE EQUAL, TO PREVENT ANY MOISTURE ENTRANCE. DUCTS ENTERING THE VAULT SHALL NOT PROTRUDE MORE THAN 1" BEYOND THE FACE OF THE INSIDE WALL AND WILL HAVE BELL ENDS. ALL DUCT OPENINGS WILL BE SEALED WITH APPROVED PLUGS (SUM50)
 - INSTALL A GROUND BUS LOOP IN EACH NEW VAULT PRIOR TO SETTING THE VAULT ROOF SECTION. STANDARD GROUND ELECTRODES CONSISTS OF FOUR 8' LONG 3/4" DIAMETER GROUND RODS DRIVEN VERTICALLY THROUGH THE VAULT BOTTOM AT EACH CORNER OF THE VAULT WITH 6" LEFT PROTRUDING ABOVE THE FLOOR. CONSTRUCT GROUND BUS USING 4/0 STRANDED BARE COPPER CONDUCTOR LOOPED AROUND THE INSIDE PERIMETER OF THE VAULT. INSTALL CHUGACH-SUPPLIED GROUNDING CONNECTORS AT TWO GROUNDED INSERT LOCATIONS INSIDE THE VAULT THEN CONNECT GROUNDING CONNECTORS AND FULL GROUND BUS WITH SEPARATE 4/0 STRANDED BARE COPPER CONDUCTOR. (SUM48-6)

MATERIAL LIST - SUMH-814			
Item	NO.	DESCRIPTION	MATERIAL #
1	4	ROD, GROUND, 3/4"x8'-0", GALVANIZED STEEL	
2	8	CLAMP, GROUND ROD	
3	-	GROUND WIRE, 4/0 AWG BaCuStr, AS REQUIRED	
4	2	GROUND LUGS, UV	
5	1	CONNECTOR, 4/0 COPPER	
6	-	WIRE TIE, CABLE, SPACING, AS REQUIRED	
7	1	PULL VAULT, TOP SECTION, UV 814-TEE-CLX (7060 LBS)	17593
8	2	PULL VAULT, RISER, UV 814-48R-UFER (12380 LBS)	17591
9	1	PULL VAULT, BASE, UV 814-SB-UFER (18000 LBS)	17592
10	0	PULL VAULT, COVER, UV 57-CLX-42S (2040 LBS)	17594
11	2	PULL VAULT, MANHOLE COVER, UV 57-CLX-42C (1350 LBS)	17590
12	2	COVER, MANHOLE, UV 4220-S (600 LBS)	17597
13	2	FRAME, MANHOLE, UV 4240-HD (680 LBS)	17596
14	2	DUCT PLUG, BLANK, CALAM 5120-35L	
15	6	DUCT PLUG, SIMPLEX, CALAM 7140-245	
16	8	CONDUIT BELL END, 4"	
17	-	GRAVEL, D1, 2,000 CU. FT.	

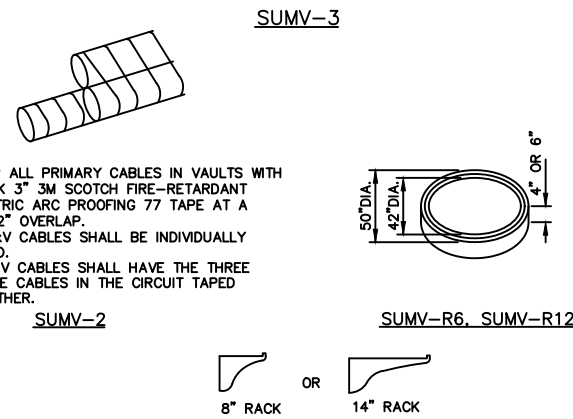
TYP. CONCRETE VAULT WITH MANHOLE
SUMH-814

VAULT DETAILS



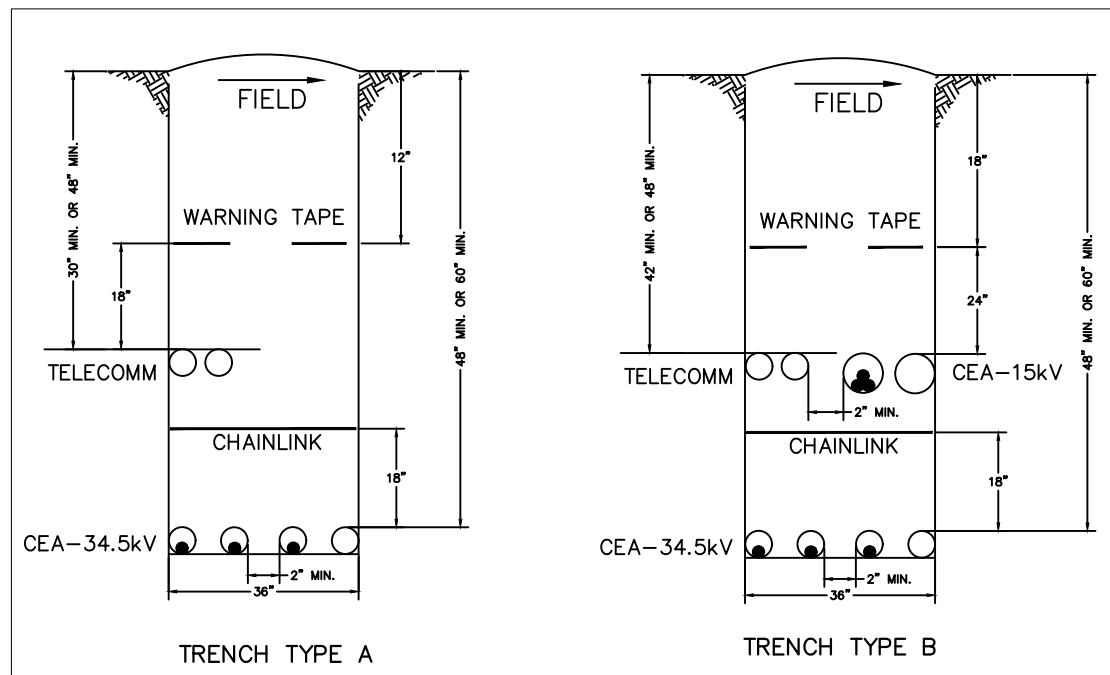
- NOTES:
- 3/4" HIGH EQUIPMENT NO. LETTERING DESIGNATING CONDUIT SOURCE.
 - SECURE SIGNAGE TO THE WALL IMMEDIATELY ABOVE EACH CONDUIT PENETRATION.

MATERIAL LIST - SUMV-3		
Item	NO.	DESCRIPTION
1	1	SIGNAGE, APPROVED METAL, OR ENGRAVED LAMINATED PLASTIC
2	2	STAINLESS STEEL CONCRETE ANCHORS AND 1/4" BOLTS (STAINLESS STEEL SELF ANCHORING CONCRETE SCREWS OF APPROPRIATE SIZE ARE AN ACCEPTABLE ALTERNATIVE)



- NOTES:
- WRAP ALL PRIMARY CABLES IN VAULTS WITH BLACK 3" 3M SCOTCH FIRE-RETARDANT ELECTRIC ARC PROOFING 77 TAPE AT A 1-1/2" OVERLAP.
 - 34.5kV CABLES SHALL BE INDIVIDUALLY TAPED.
 - 12.5kV CABLES SHALL HAVE THE THREE SINGLE CABLES IN THE CIRCUIT TAPED TOGETHER.

MATERIAL LIST - SUMV-1A			
Item	NO.	DESCRIPTION	MATERIAL #
1		RACK ARM, HEAVY DUTY NON-METALLIC, UNDERGROUND DEVICES #RA08 (8") OR #RA14 (14")	-



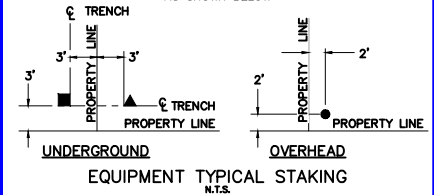
VICINITY KEY MAP
N.T.S.

LEGEND		
NEW	EXISTING	DESC.
V	V	VAULT
J	J	JUNCTION BOX
S	S	SWITCH CABINET
P	P	PULLBOX
F	F	PADMOUNT XFMR
M	M	FUSED JUNCTION BOX
▲	▲	PRIMARY METER
△	△	HANDHOLE
○	○	PEDESTAL
⊗	⊗	NON-CEA POLE
●	●	POLE
⋆	⋆	LIGHT
→	→	DOWN GUY
~	~	FUSE
◇	◇	SPLICE POINT
⌒	⌒	1Ø OH XFMR
⌒⌒	⌒⌒	DELTA OH XFMR
⌒⌒⌒	⌒⌒⌒	3Ø OH XFMR
FO	FO	FIBER OPTIC
///	///	O.H. XMSSN
-//-	-//-	U.G. XMSSN
X	X	SPAN GUY
---	---	CONDUIT DIAMETER
		1Ø U.G. PRIMARY
		2Ø U.G. PRIMARY
		3Ø U.G. PRIMARY
---	---	U.G. SECONDARY
---	---	U.G. SERVICE
---	---	1Ø O.H. PRIMARY
---	---	2Ø O.H. PRIMARY
---	---	3Ø O.H. PRIMARY
---	---	R.O.W. EASEMENT LINE
---	---	CENTERLINE OF TRENCH

COLOR LEGEND

---	NEW
---	REFERENCE
---	EXISTING
---	RETIRE
---	ABANDON

UNLESS OTHERWISE NOTED CHUGACH FACILITIES WILL BE INSTALLED AS SHOWN BELOW



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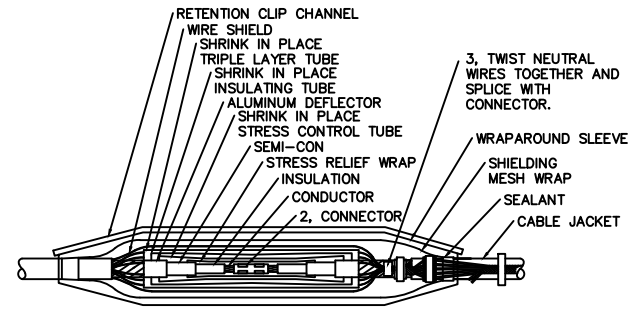
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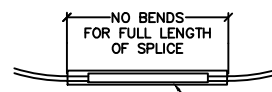
E2320073

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SECTION THROUGH SPLICE KIT -
SEE MANUFACTURER'S INSTALLATION
INSTRUCTIONS

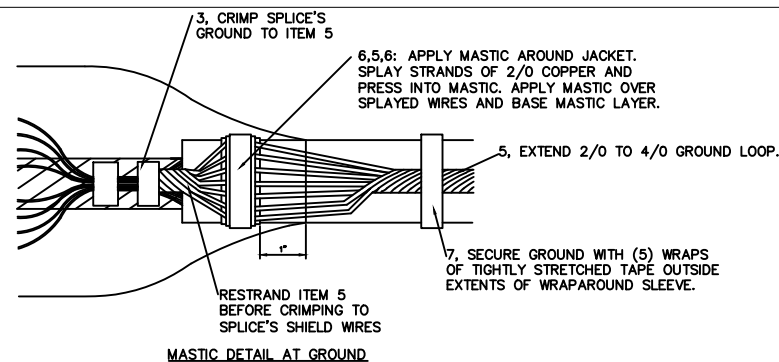


SPLICE PLAN

MATERIAL LIST - XUM6-28G

NO.	QTY.	DESCRIPTION	MATERIAL #
1	3	SPLICE KIT, PRIMARY, UNDERGROUND, TE RAYCHEM #HVS-3523S-J, 35kV CLASS	4519
2	3	CONNECTOR, COMPRESSION, COPPER, 3M SCOTCHLOK, #AL9CU, 20024	19031
3	6	CONNECTOR, COMPRESSION, COPPER, BURNDY #YC28C26, 2/0-2/0	
4	3	CONNECTOR, COMPRESSION, COPPER, BURNDY #YC28C26, 2/0-4/0	
5	3	GROUND CONDUCTOR, 2/0 BARE COPPER 7-STRAND, LENGTH AS REQUIRED	
6	3	MASTIC TAPE, 3M #2228, OR APPROVED EQUAL	
7	-	TAPE, ELECTRICAL, LENGTH REQUIRED, WHERE NOTED, 3M #SUPER 88, OR APPROVED EQUAL	

XUM6-28G

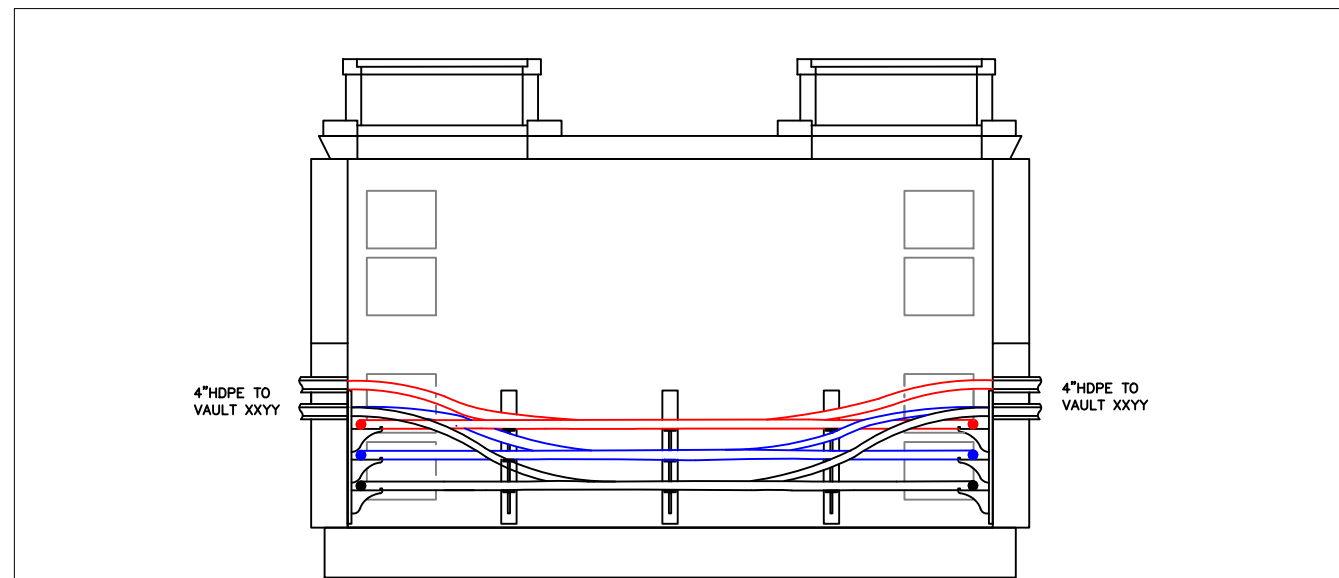


MASTIC DETAIL AT GROUND

MATERIAL LIST - SUMV-1

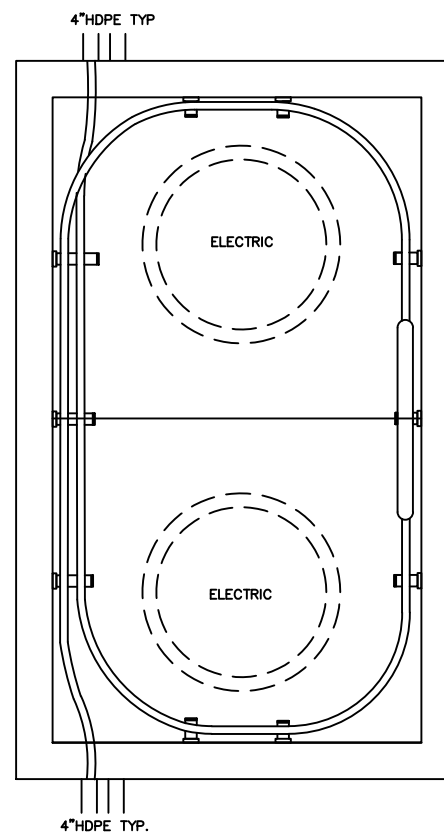
Item	NO.	DESCRIPTION	MATERIAL #
1	1	STANCHION, HEAVY DUTY NON-METALLIC, 16" OR 36" UNDERGROUND DEVICES #CR36-B	-
2	5	SCREW, 1/2"-13x1-3/8" LONG HEX HEAD CAP, 316 STAINLESS	
3	5	ANCHOR, 1/2"-13x2" LONG DROP-IN, 303 STAINLESS STEEL	
4	5	WASHER, 1-1/4" O.D., 9/16" HOLE, 316 STAINLESS STEEL	

SUMV-1

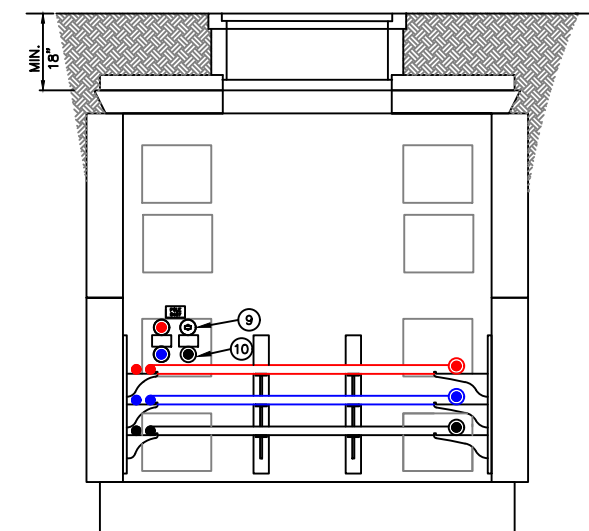
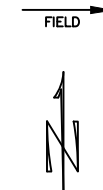


EAST WALL VIEW

PLAN VIEW



4"HDPE TYP.



NORTH WALL VIEW

VAULT TYPICAL CABLE DIAGRAM

VAULT DETAILS

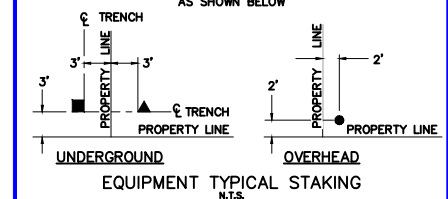
VICINITY KEY MAP
N.T.S.

NEW	EXISTING	DESC.
[Symbol]	[Symbol]	VAULT
[Symbol]	[Symbol]	JUNCTION BOX
[Symbol]	[Symbol]	SWITCH CABINET
[Symbol]	[Symbol]	PULLBOX
[Symbol]	[Symbol]	PADMOUNT XFMR
[Symbol]	[Symbol]	FUSED JUNCTION BOX
[Symbol]	[Symbol]	PRIMARY METER
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	PEDESTAL
[Symbol]	[Symbol]	NON-CEA POLE
[Symbol]	[Symbol]	POLE
[Symbol]	[Symbol]	LIGHT
[Symbol]	[Symbol]	DOWN GUY
[Symbol]	[Symbol]	FUSE
[Symbol]	[Symbol]	SPLICE POINT
[Symbol]	[Symbol]	1Ø OH XFMR
[Symbol]	[Symbol]	DELTA OH XFMR
[Symbol]	[Symbol]	3Ø OH XFMR
[Symbol]	[Symbol]	FIBER OPTIC
[Symbol]	[Symbol]	O.H. XMSSN
[Symbol]	[Symbol]	U.G. XMSSN
[Symbol]	[Symbol]	SPAN GUY
[Symbol]	[Symbol]	CONDUIT DIAMETER
[Symbol]	[Symbol]	1Ø U.G. PRIMARY
[Symbol]	[Symbol]	2Ø U.G. PRIMARY
[Symbol]	[Symbol]	3Ø U.G. PRIMARY
[Symbol]	[Symbol]	U.G. SECONDARY
[Symbol]	[Symbol]	U.G. SERVICE
[Symbol]	[Symbol]	1Ø O.H. PRIMARY
[Symbol]	[Symbol]	2Ø O.H. PRIMARY
[Symbol]	[Symbol]	3Ø O.H. PRIMARY
[Symbol]	[Symbol]	R.O.W. EASEMENT LINE
[Symbol]	[Symbol]	CENTERLINE OF TRENCH

COLOR LEGEND

[Line Style]	NEW
[Line Style]	REFERENCE
[Line Style]	EXISTING
[Line Style]	RETIRE
[Line Style]	ABANDON

UNLESS OTHERWISE NOTED CHUGACH FACILITIES WILL BE INSTALLED AS SHOWN BELOW



EQUIPMENT TYPICAL STAKING
N.T.S.

PROJECT: 34.5kV SUBTRANSMISSION - STRUCTURE 9999 TO STRUCTURE 6999			
DESIGNER/PROJECT ENGINEER: M. ELLIOTT & V. KRIVONOSOV		W.O. #: E2320073	
NO.	DESIGN/CONSTRUCTION/AS-BUILT REVISION	DWN BY/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	ME 05/14/28	Jm 6/15/26

ENG. STAMP



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

DRAWING NAME:

34.5kV SUBTRANSMISSION
BRAGAW TO E.6TH
PLAN, PROFILE, & ROW
STRUCTURE 9999 TO STRUCTURE 6999

W.O. NO.:

E2320073

E2320073.dwg

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