

VICINITY MAP
N.T.S.

7728 MERRILL ROAD, JACKSONVILLE, FL



Sheet Index -CoverSheet		
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4	EP1_DEMO	ELECTRICAL PLAN
5	ES1_DEMO	ELECTRICAL SECTIONS
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7	ES3_DEMO	ELECTRICAL SECTIONS
8	ES4_DEMO	ELECTRICAL SECTIONS
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12	CP2_DEMO	CONDUIT PLAN
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MERRILL ROAD 69kV / 26kV SUBSTATION

ME2024

20410

8009313 - T1 REPLACEMENT & FEEDER 477 & 478 ADDITIONS
8008922 - 69kV 6T2 BREAKER REPLACEMENT

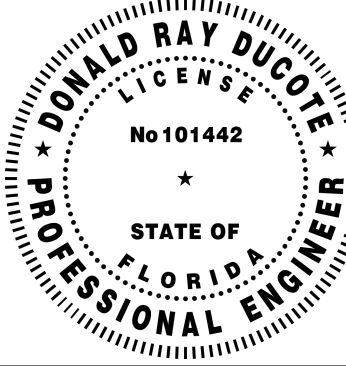
JEA\PROJECTS\2024\06103 - CV1_DEMO.dwg 2024-06-10 10:28



ONE MERIDIAN BOULEVARD, SUITE 2002,
WYOMISSING, PA, 19610
FL COA 8777

PROFESSIONAL
ENGINEER'S SEAL

LATEST REVISION
ORIGINALLY PREPARED UNDER
THE RESPONSIBLE SUPERVISION OF
PE: DONALD RAY DUCOTE
LIC. NO.: 101442
STATE: FL
DATE: 06/27/25




REV	DATE	PROJ #	REVISION DESCRIPTION	BY	REVIEW	ENGINEERING
0	06/27/25	8009313	ISSUED FOR CONSTRUCTION	SAG	DRD	DATE 9/2020 BY RMS REVIEW JWR DRAFTING DATE 9/2020 BY RMS REVIEW JWR

T1 REPLACEMENT AND TWO FEEDER ADDITIONS
DEMO COVER SHEET

MERRILL ROAD 69kV / 26kV SUBSTATION

TRANSMISSION & SUBSTATION PROJECTS - 20410

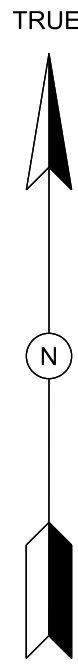


PROJ #:
8009313 & 8008922

SHEET NUMBER:
CV1_DEMO

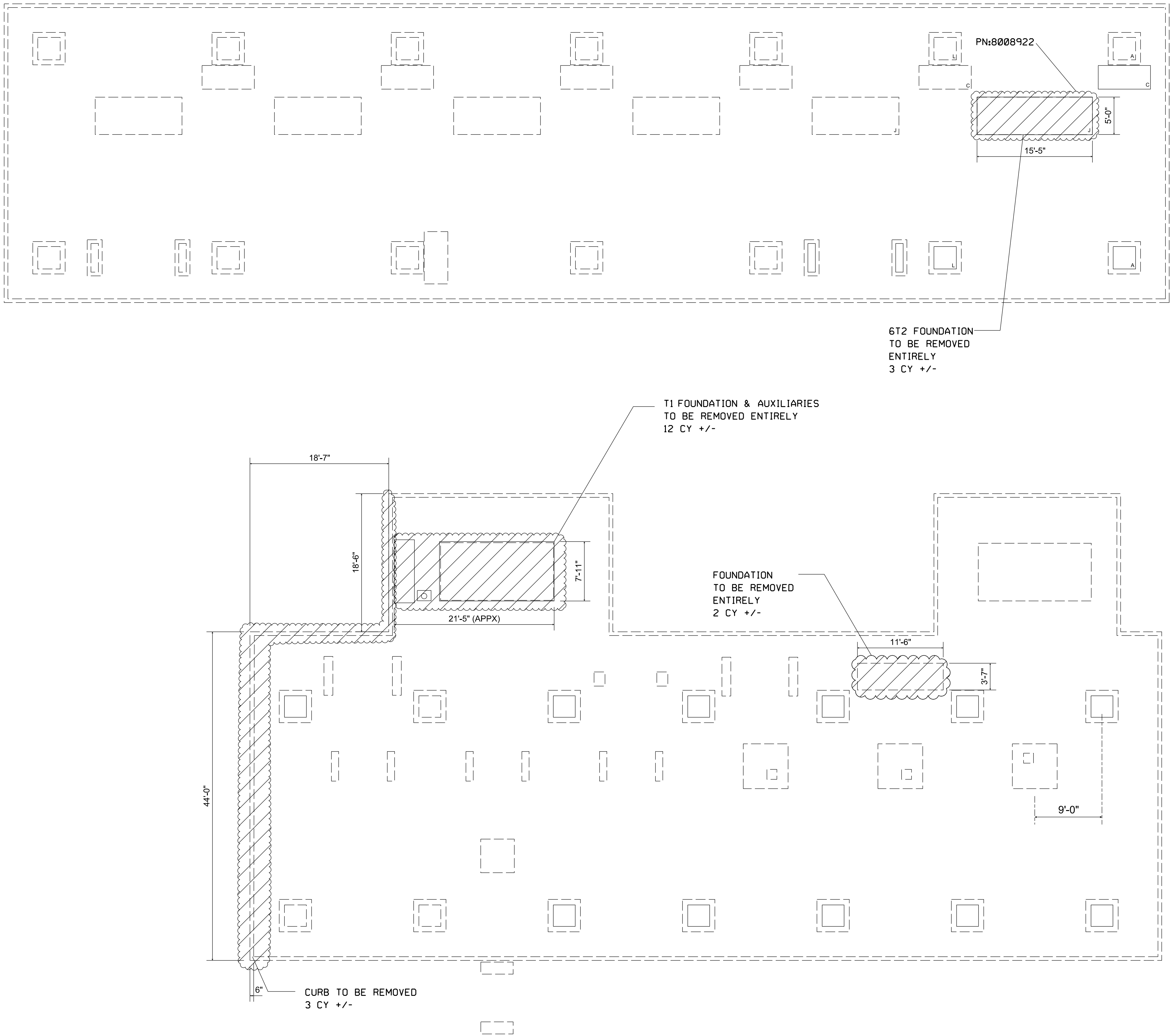
PROJECT ID:
ME2024

SEQUENCE #:
1 OF 14



GENERAL NOTES

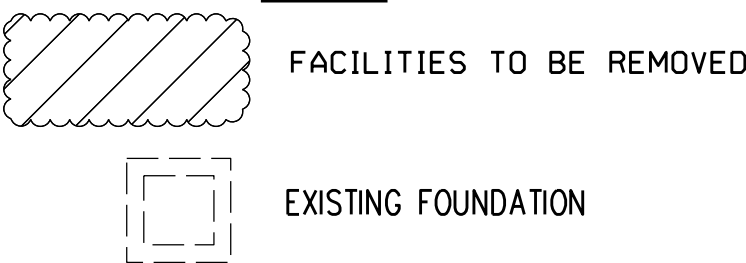
1. FOR GENERAL NOTES SEE FP1



REFERENCE DRAWINGS:


1. FD1 FOUNDATION DETAILS
2. FP1 FOUNDATION PLAN
3. FD3 FOUNDATION DETAILS
4. FD4 FOUNDATION DETAILS
5. SP1 SITE PLAN

LEGEND



FOUNDATION DEMOLITION PLAN
1/8"=1'





DELIVERING SUSTAINABLE CHANGE

ONE MERIDIAN BOULEVARD, SUITE 2C02,
WYOMISSING, PA, 19110
FL COA 8777

ISSUED FOR CONSTRUCTION

PROFESSIONAL ENGINEER'S SEAL

LATEST REVISION
ORIGINALLY PREPARED UNDER
THE RESPONSIBLE SUPERVISION OF

PE: PHILLIP JOHN HARTER

UC NO.: 90558

STATE: FLORIDA

DATE: 27-JUNE-2025

REV	DATE	PROJ #	REVISION DESCRIPTION	BY	REVIEW	ENGINEERING
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1	8/11/25	8009313 8008922	ISSUED FOR CONSTRUCTION - TITLE BLOCK UPDATED PER CLIENT COMMENTS	KEN	PJH	BY
						REVIEW
						DRAFTING
						DATE
						BY
						REVIEW

T1 REPLACEMENT AND TWO FEEDER ADDITIONS

69kV / 26Kv

FOUNDATION DEMOLITION PLAN

MERRILL ROAD 69kV / 26kV SUBSTATION

TRANSMISSION & SUBSTATION PROJECTS - 20410

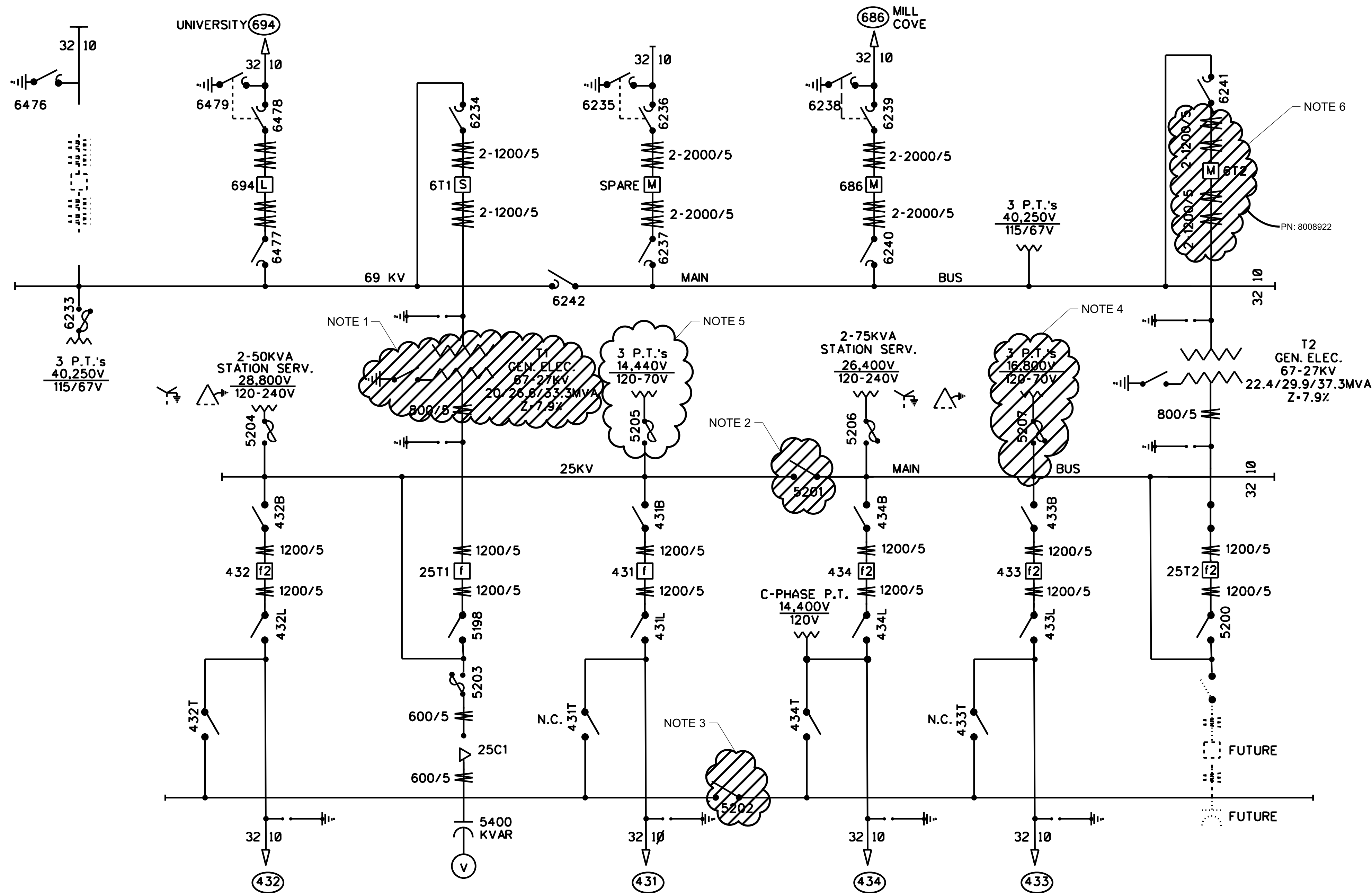
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PROJ #:
8009313 & 8008922

SHEET NUMBER:
FP1_Demo

PROJECT ID:
ME2024

SEQUENCE #:
2 OF 12

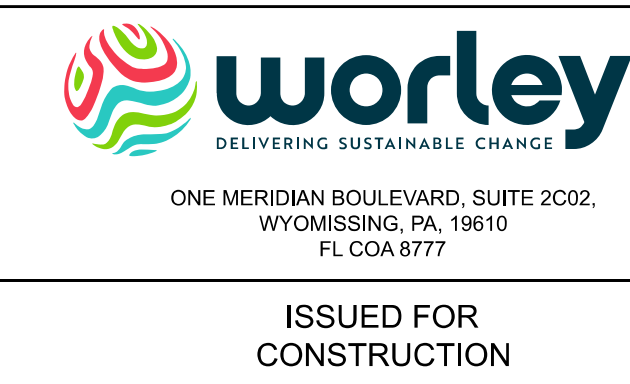


- NOTES:
1. REMOVE EXISTING TRANSFORMER T1. THE TRANSFORMER WILL BE REPLACED WITH A NEW TRANSFORMER AS NOTED ON DWG SL01 - SINGLE LINE DIAGRAM. THIS WORK SHALL BE PERFORMED DURING THE T1 POWER OUTAGE (I.E., POWER OUTAGE PHASE #1).
 2. REMOVE EXISTING HOOK-STICK TIE SWITCH 5201 AND CLOSE THE BUS OPENING LEFT BY REMOVING THE SWITCHES AS SHOWN ON DWG SL01 - SINGLE LINE DIAGRAM. THIS WORK SHALL BE PERFORMED DURING THE T2 POWER OUTAGE (I.E., POWER OUTAGE PHASE #2).
 3. REMOVE EXISTING HOOK-STICK TIE SWITCH 5202 AND CLOSE THE BUS OPENING LEFT BY REMOVING THE SWITCHES AS SHOWN ON DWG SL01 - SINGLE LINE DIAGRAM. THIS WORK SHALL BE PERFORMED DURING THE T2 POWER OUTAGE (I.E., POWER OUTAGE PHASE #2).
 4. REMOVE EXISTING SET OF 3 PTs AND ASSOCIATED FUSED DISCONNECTS ON THE T2 SECONDARY BUS. COMPLETELY REMOVE THE PTs DOWN TO THE FOUNDATION. REMOVE ALL EXISTING PRIMARY AND SECONDARY WIRING FOR THE PTs. THIS WORK SHALL BE PERFORMED DURING THE T2 POWER OUTAGE (POWER OUTAGE PHASE #2).
 5. THIS EXISTING SET OF 3 PTs AND ASSOCIATED FUSED DISCONNECTS ARE PRESENTLY ON THE EXISTING T1 SECONDARY BUS. AS SHOWN ON DWG SL01 - SINGLE LINE DIAGRAM, THESE EXISTING PTs WILL BE TRANSFERRED TO THE T2 SECONDARY BUS. REMOVE ALL EXISTING SECONDARY WIRING FOR THE PTs. THIS WORK SHALL BE PERFORMED DURING THE T1 POWER OUTAGE (POWER OUTAGE PHASE #1).
 6. REMOVE EXISTING 69KV CIRCUIT BREAKER 6T2. THE CIRCUIT BREAKER WILL BE REPLACED WITH A NEW CIRCUIT BREAKER AS NOTED ON DWG SL01 - SINGLE LINE DIAGRAM. THIS WORK SHALL BE PERFORMED DURING THE T2 POWER OUTAGE (I.E., POWER OUTAGE PHASE #2).

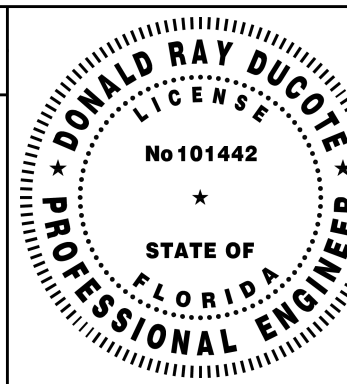
LEGEND:

 INDICATES DEMO - REMOVE

1 SINGLE LINE DIAGRAM - DEMOLITION
SL1 NTS



PROFESSIONAL ENGINEER'S SEAL
LATEST REVISION
ORIGINALLY PREPARED UNDER
THE RESPONSIBLE SUPERVISION OF
PE: DONALD RAY DUCOTE
LIC. NO.: 101442
STATE: FL
DATE: 06/27/25



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0	06/27/25	8009313 8008922	ISSUED FOR CONSTRUCTION	SAG	DRD	DATE 9/2020 BY RMS REVIEW JWR DRAFTING DATE 9/2020 BY RMS REVIEW JWR

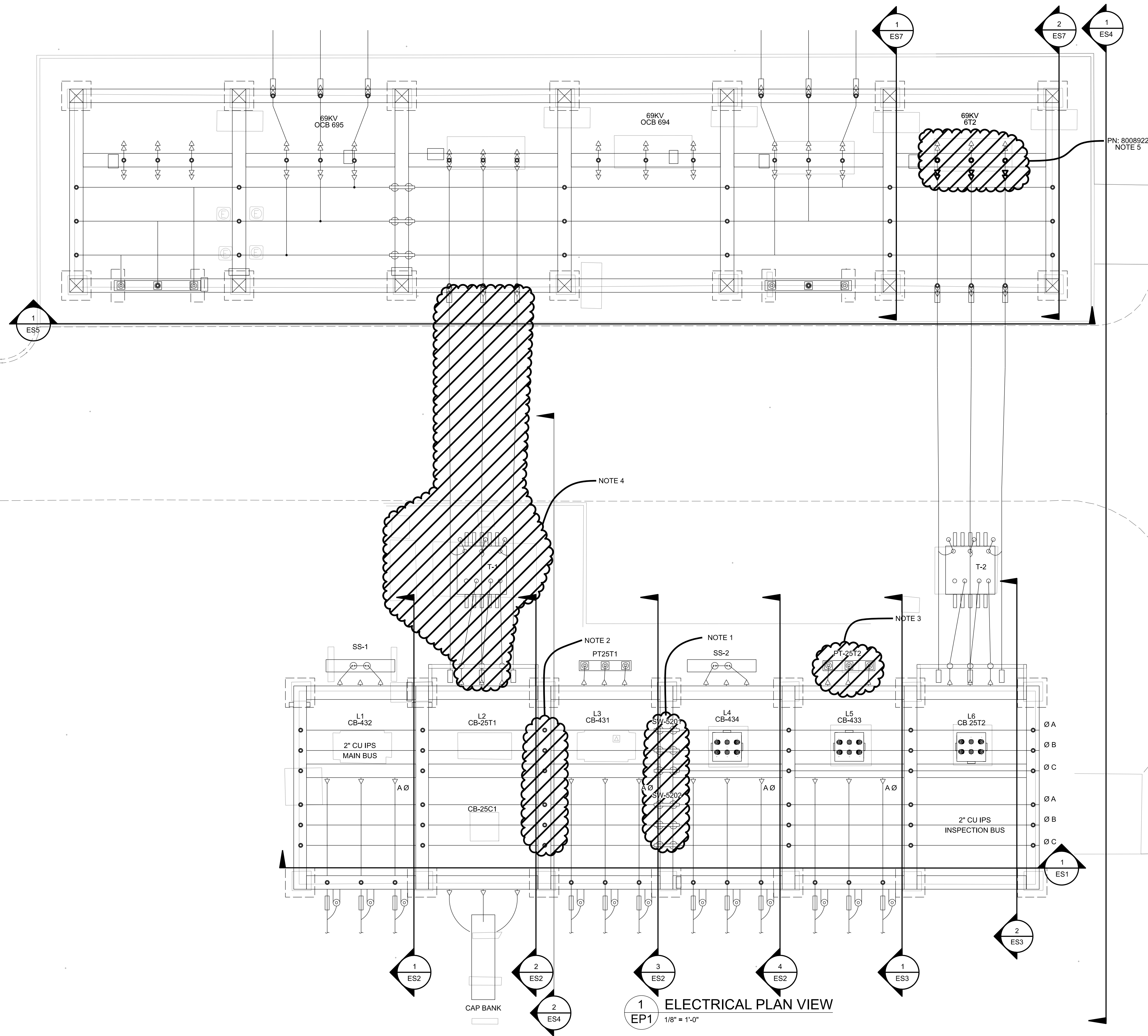
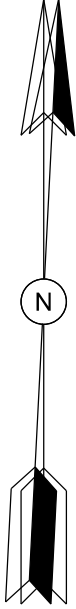
T1 REPLACEMENT AND TWO FEEDER ADDITIONS
DEMO SINGLE LINE DIAGRAM
MERRILL ROAD 69KV / 26KV SUBSTATION
TRANSMISSION & SUBSTATION PROJECTS - 20410

DRAWING #:
SL01_DEMO
DRAWING SET
ME2024
SHEET#:
2 OF 13



PROJ #:
8009313 & 8008922

CALLED TRUE

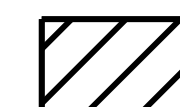


ELECTRICAL PLAN VIEW
1/8" = 1'-0"

CONSTRUCTION NOTES:

- HOOK SWITCH 5201 & 5202 TO BE REMOVED AND REPLACED WITH NEW BUS AS SHOWN ON ELECTRICAL SECTIONS AND DETAILS.
- INSULATORS AND EXISTING BASEPLATE TO BE REMOVED FROM LOCATION AND MOVED TO EXISTING 5201 & 5202 SWITCH LOCATIONS. AFTER REMOVAL OF 5201 & 5202 SWITCHES, BASEPLATE TO BE MODIFIED TO MOUNT TO NEW LOCATIONS STEEL STRUCTURE.
- REMOVE EXISTING SET OF 3 Pts AND ASSOCIATED FUSED DISCONNECTS ON THE T2 SECONDARY BUS. COMPLETELY REMOVE THE Pts DOWN TO THE FOUNDATION. REMOVE ALL EXISTING PRIMARY AND SECONDARY WIRING FOR THE Pts. THIS WORK SHALL BE PERFORMED DURING THE T2 POWER OUTAGE (POWER OUTAGE PHASE #2). REMOVAL OF SECONDARY WIRING WILL BE DETAILED ON P&C DRAWINGS PREPARED BY JEA.
- REMOVE EXISTING T1 TRANSFORMER ALONG WITH STANDALONE OIL MONITORING CABINET AND ALL PRIMARY AND SECONDARY WIRING AND LV AUXILIARY WIRING. OIL REMOVAL SHALL BE DIRECTED BY JEA.
- REMOVE 6T2 CIRCUIT BREAKER. OIL REMOVAL SHALL BE DIRECTED BY JEA.

LEGEND:



INDICATES DEMO - REMOVE

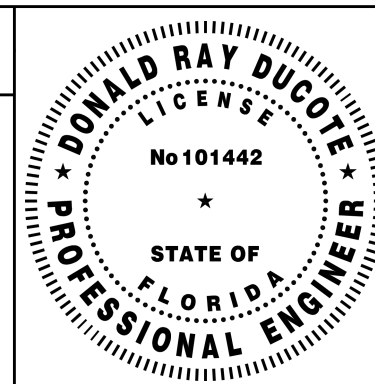
1/8" = 1'-0" 0 8' 16'



ISSUED FOR
CONSTRUCTION

PROFESSIONAL
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LATEST REVISION
ORIGINALLY PREPARED UNDER
THE RESPONSIBLE SUPERVISION OF
PE: DONALD RAY DUGOTE
LIC. NO.: 101442
STATE: FL
DATE: 06/27/25



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0	06/27/25	8009313 8008922	ISSUED FOR CONSTRUCTION	SAG	DRD	DATE 9/2020 BY RMS REVIEW JWR
						DRAFTING
						DATE 9/2020 BY RMS REVIEW JWR

T1 REPLACEMENT AND TWO FEEDER ADDITIONS
DEMO ELECTRICAL PLAN

MERRILL ROAD 69KV / 26KV SUBSTATION

TRANSMISSION & SUBSTATION PROJECTS - 20410

SCALE:
AS SHOWN



PROJ #:
8009313 & 8008922

DRAWING #:

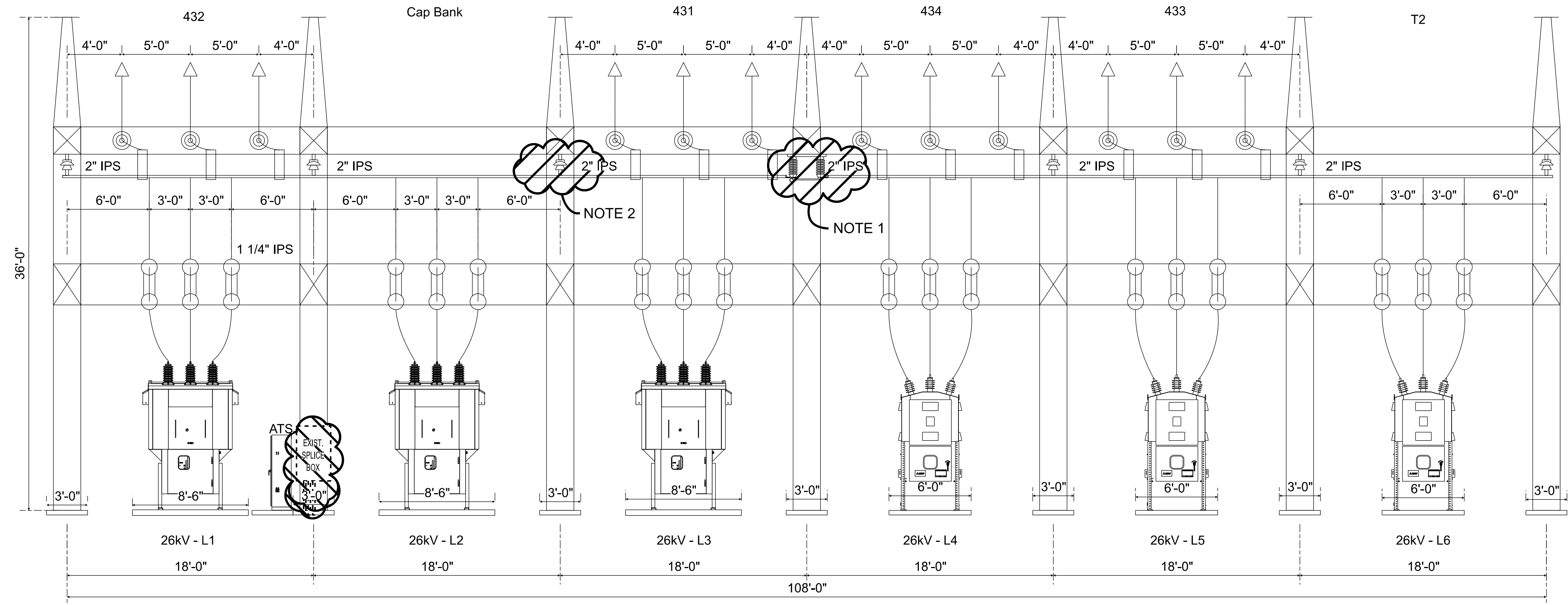
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DRAWING SET

ME2024

SHEET#:

3 OF 13

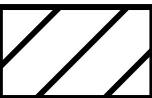


1 26KV BREAKER YARD NORTH
ES1 3/16" = 1'-0"

CONSTRUCTION NOTES:

1. HOOK SWITCH 5201 & 5202 TO BE REMOVED AND REPLACED WITH NEW BUS AS SHOWN ON ELECTRICAL SECTIONS AND DETAILS.
2. INSULATORS AND EXISTING BASEPLATE TO BE REMOVED FROM LOCATION AND MOVED TO EXISTING 5201 & 5202 SWITCH LOCATIONS. AFTER REMOVAL OF 5201 & 5202 SWITCHES, BASEPLATE TO BE MODIFIED TO MOUNT TO NEW LOCATIONS STEEL STRUCTURE.

LEGEND:



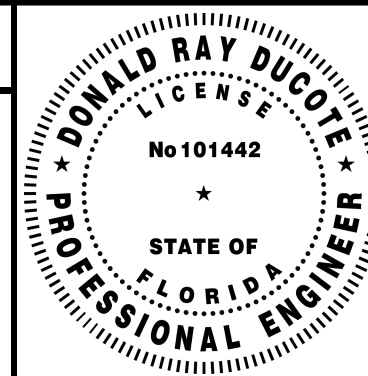
INDICATES DEMO - REMOVE



ISSUED FOR
CONSTRUCTION

PROFESSIONAL
ENGINEER'S SEAL

LATEST REVISION
ORIGINALLY PREPARED UNDER
THE RESPONSIBLE SUPERVISION OF
PE: DONALD RAY DUCOTE
LIC. NO.: 101442
STATE: FL
DATE: 08/18/25



REV	DATE	PROJ #	REVISION DESCRIPTION	BY	REVIEW	ENGINEERING
0	08/18/25	8009313 8008922	ISSUED FOR CONSTRUCTION	SAG	DRD	DATE 9/2020 BY RMS REVIEW JWR DRAFTING
						DATE 9/2020 BY RMS REVIEW JWR

T1 REPLACEMENT AND TWO FEEDER ADDITIONS
DEMO 26kV BREAKER SECTIONS
SHEET 1

MERRILL ROAD 69kV / 26kV SUBSTATION

SCALE:
AS SHOWN

TRANSMISSION & SUBSTATION PROJECTS - 20410

PROJ #:
8009313 & 8008922



SHEET NUMBER:

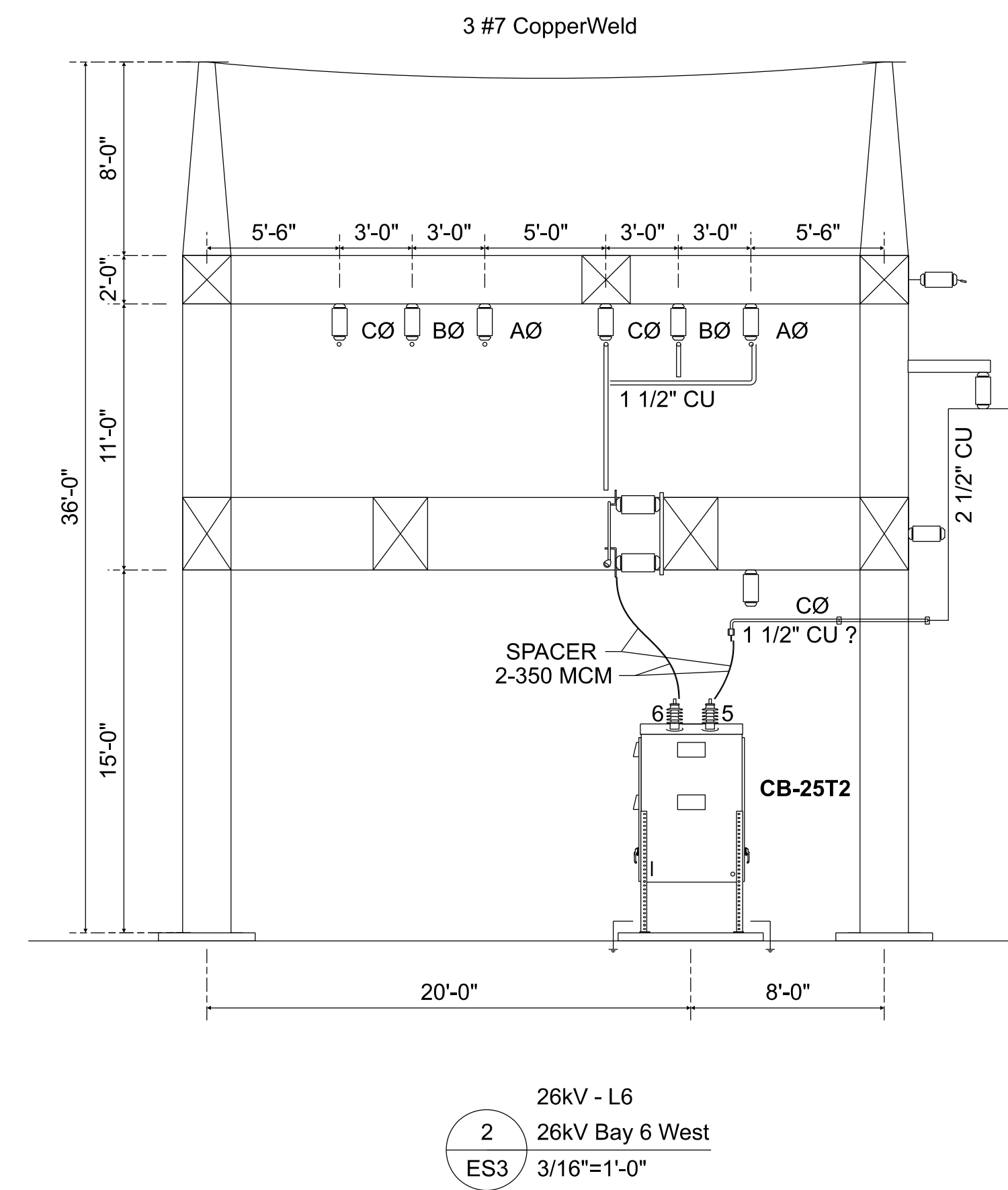
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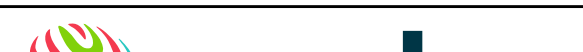


PROJECT ID:

ME2024

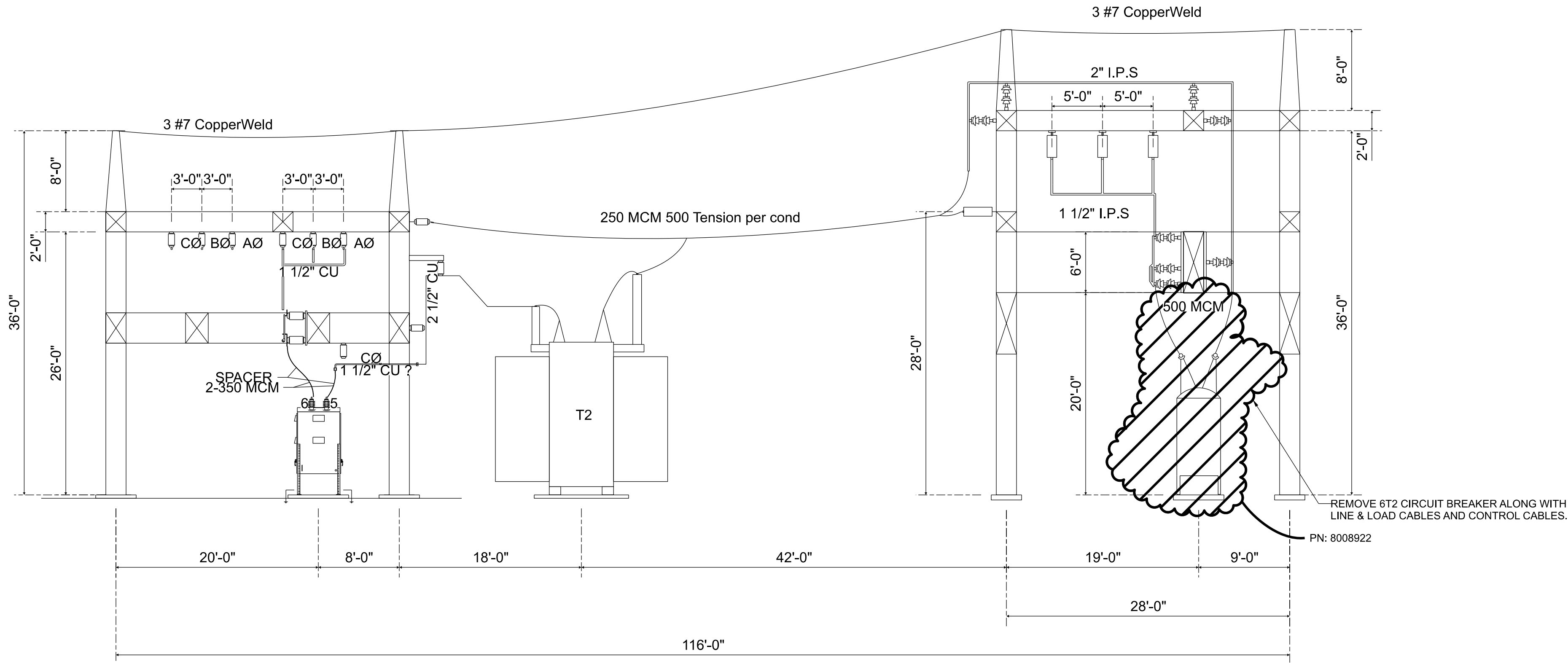
SEQUENCE #:

5 OF 14



<div><p>worley</p><p>DELIVERING SUSTAINABLE CHANGE</p><p>ONE MERIDIAN BOULEVARD, SUITE 2002, WYOMISSING, PA, 19610 PL COA #777</p><p>ISSUED FOR CONSTRUCTION</p></div>	PROFESSIONAL ENGINEER'S SEAL	<div></div>	REV	DATE	PROJ.#	REVISION DESCRIPTION	BY	REVIEW	ENGINEERING	<div>T1 REPLACEMENT AND TWO FEEDER ADDITIONS DEMO 26kV BREAKER SECTION SHEET 3</div> <div>MERRILL ROAD 69KV / 26KV SUBSTATION</div> <div>SCALE: AS SHOWN TRANSMISSION & SUBSTATION PROJECTS - 20410</div> <div></div>	SHEET NUMBER: ES3_DEMO	
	LATEST REVISION ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF:		0	06/27/25	8009313 8008922	ISSUED FOR CONSTRUCTION	SAG	DRD	DATE		9/20/20	PROJECT ID: ME2024
	PE: DONALD R. RAY DUDDOUE								BY		RMS	SEQUENCE #: 7 OF 14
	LIC. NO.: 101442								REVIEW		JWR	
	STATE: FL								DRAFTING			
	DATE: 06/27/25								DATE		9/20/20	
							BY	RMS				
							REVIEW	JWR				

JEAN-PIERRE DUCOTE (0610) ES4 06/27/25 2:25:43 PM 2025



1 Station Side Profile
ES4 1/8"=1'-0"

LEGEND:



1/8" = 1'-0" 0 8' 16'

worley
DELIVERING SUSTAINABLE CHANGE
ONE MERIDIAN BOULEVARD, SUITE 2002,
WYOMISSING, PA, 19610
FL COA 8777

ISSUED FOR
CONSTRUCTION

PROFESSIONAL
ENGINEER'S SEAL

LATEST REVISION
ORIGINALLY PREPARED UNDER
THE RESPONSIBLE SUPERVISION OF
PE: DONALD RAY DUCOTE
LIC. NO.: 101442
STATE: FL
DATE: 06/27/25

DONALD RAY DUCOTE
LICENSE
No 101442
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

REV	DATE	PROJ #	REVISION DESCRIPTION	BY	REVIEW	ENGINEERING
0	06/27/25	8009313 8008922	ISSUED FOR CONSTRUCTION	SAG	DRD	DATE 9/2020 BY RMS REVIEW JWR
						DRAFTING
						DATE 9/2020 BY RMS REVIEW JWR

T1 REPLACEMENT AND TWO FEEDER ADDITIONS
DEMO 69kV / 26kV BREAKER SECTION
SHEET 4
MERRILL ROAD 69kV / 26kV SUBSTATION
TRANSMISSION & SUBSTATION PROJECTS - 20410

JEA
BUILDING COMMUNITY

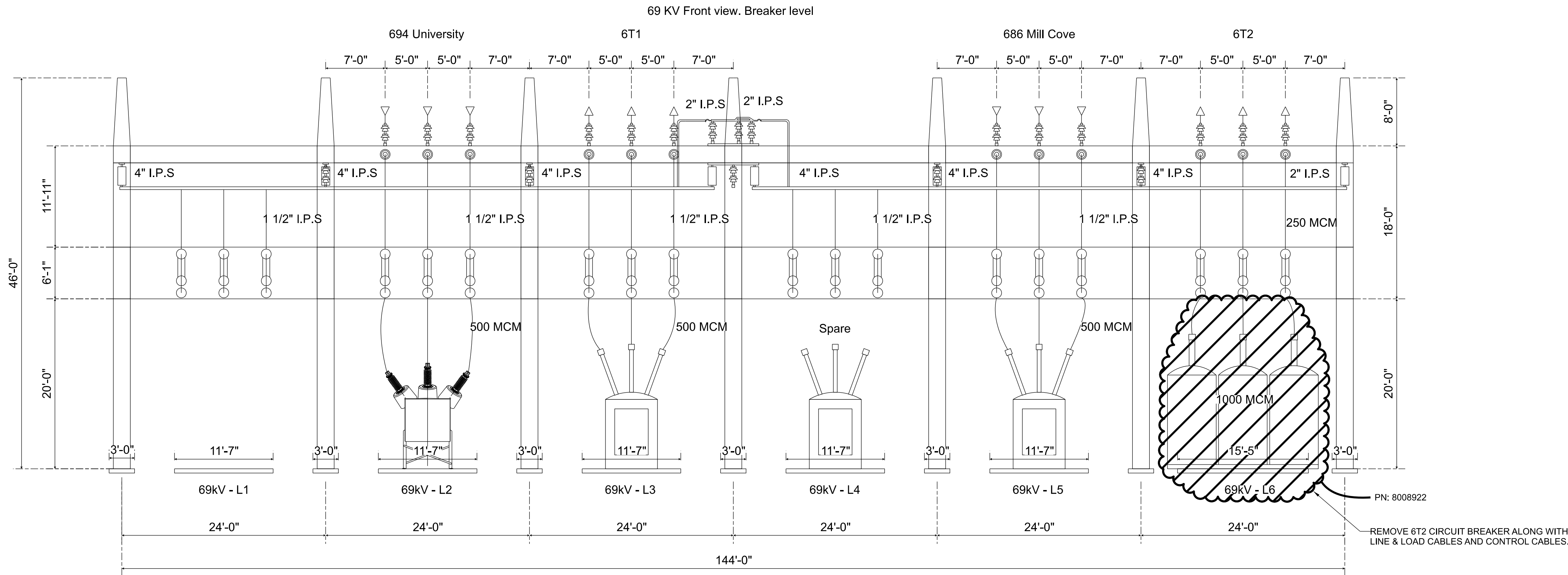
SCALE: AS SHOWN

PROJ #: 8009313 & 8008922

SHEET NUMBER:
ES4_DEMO

PROJECT ID:
ME2024

SEQUENCE #:
8 OF 14



1 69kV Breaker Yard North
ES5 1/8"=1'-0"

LEGEND:

 INDICATES DEMO - REMOVE

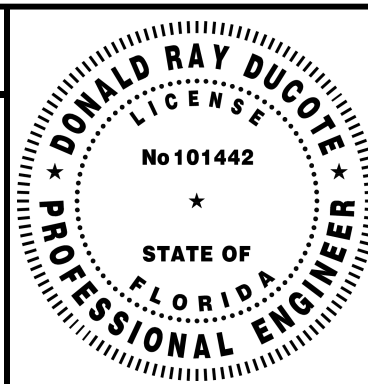
1/8" = 1'-0" 



ISSUED FOR
CONSTRUCTION

PROFESSIONAL
ENGINEER'S SEAL

LATEST REVISION
ORIGINALLY PREPARED UNDER
THE RESPONSIBLE SUPERVISION OF
PE: DONALD RAY DUCOTE
LIC. NO.: 101442
STATE: FL
DATE: 06/27/25



REV	DATE	PROJ #	REVISION DESCRIPTION	BY	REVIEW	ENGINEERING
0	06/27/25	8009313 8008922	ISSUED FOR CONSTRUCTION	SAG	DRD	DATE 9/2020 BY RMS REVIEW JWR DRAFTING DATE 9/2020 BY RMS REVIEW JWR

T1 REPLACEMENT AND TWO FEEDER ADDITIONS
DEMO 69KV BREAKER SECTION
SHEET 5
MERRILL ROAD 69KV / 26KV SUBSTATION

SCALE: AS SHOWN TRANSMISSION & SUBSTATION PROJECTS - 20410



SHEET NUMBER:

ES5_DEMO

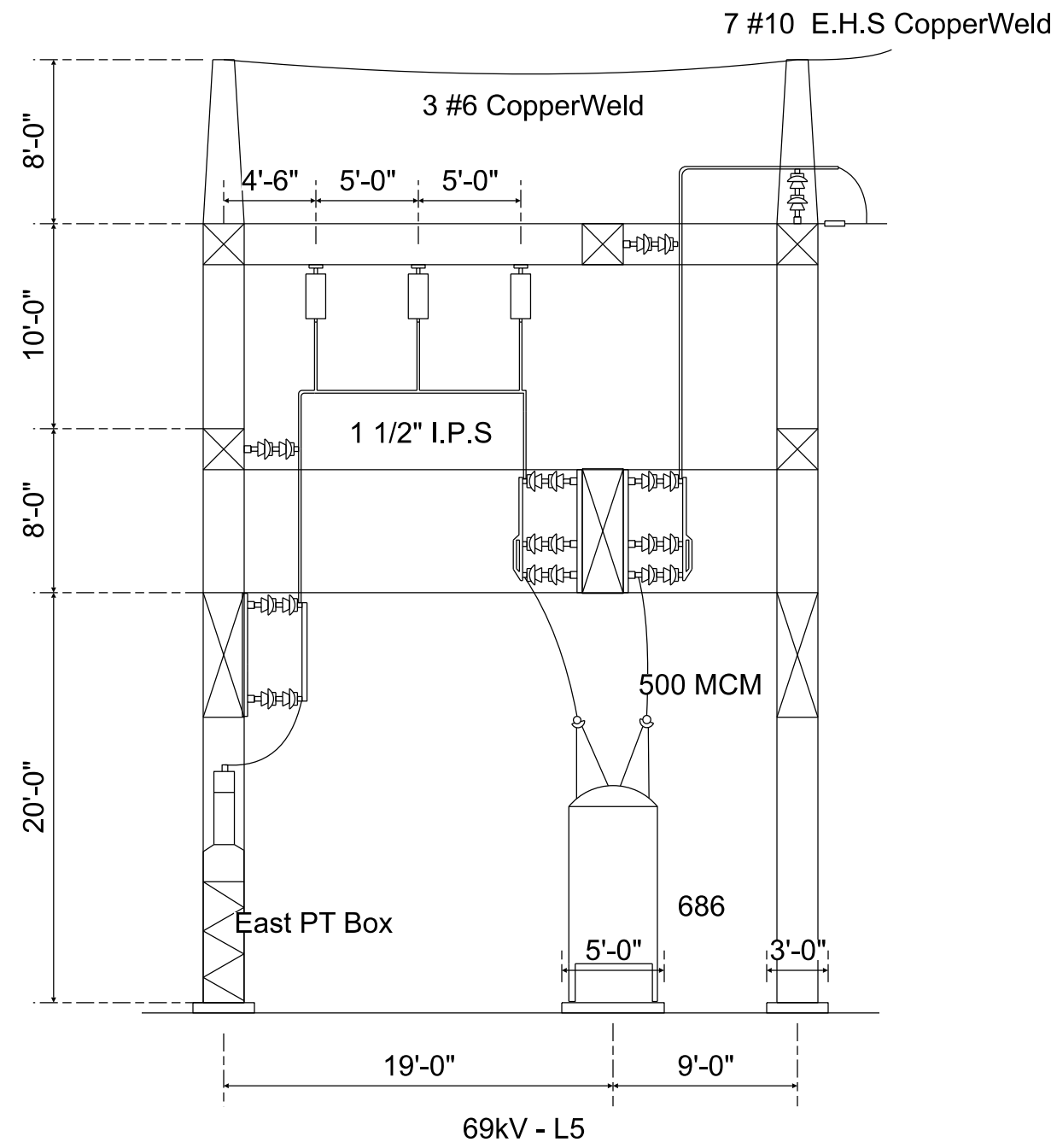
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ME2024

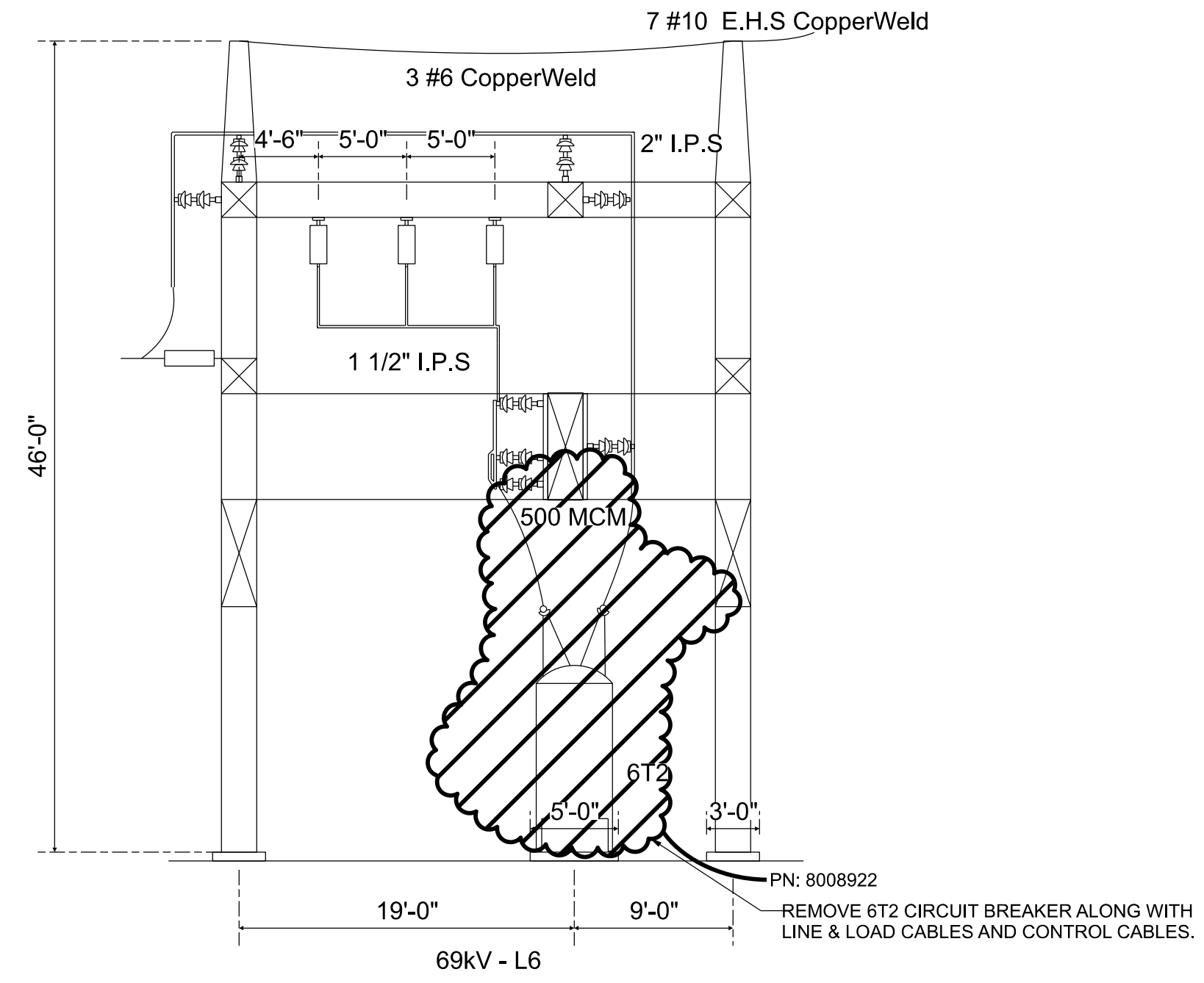
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9 OF 14

PROJ #:
8009313 & 8008922

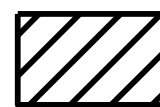


1 69kV 686 L5 BREAKER BAY
ES7 1/8" = 1'-0"



2 69kV 6T2 BREAKER BAY
ES7 1/8" = 1'-0"

LEGEND:



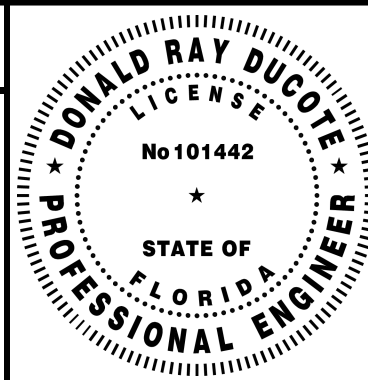
INDICATES DEMO - REMOVE



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PROFESSIONAL
ENGINEER'S SEAL

LATEST REVISION
ORIGINALLY PREPARED UNDER
THE RESPONSIBLE SUPERVISION OF
PE: DONALD RAY DUCOTE
LIC. NO.: 101442
STATE: FL
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0	06/27/25	8009313 8008922	ISSUED FOR CONSTRUCTION	SAG	DRD	DATE 9/2020 BY RMS REVIEW JWR DRAFTING
						DATE 9/2020 BY RMS REVIEW JWR

T1 REPLACEMENT AND TWO FEEDER ADDITIONS
DEMO 69kV BREAKER SECTIONS
SHEET 7

MERRILL ROAD 69kV / 26kV SUBSTATION

SCALE:
AS SHOWN

TRANSMISSION & SUBSTATION PROJECTS - 20410



PROJ #:
8009313 & 8008922

SHEET NUMBER:

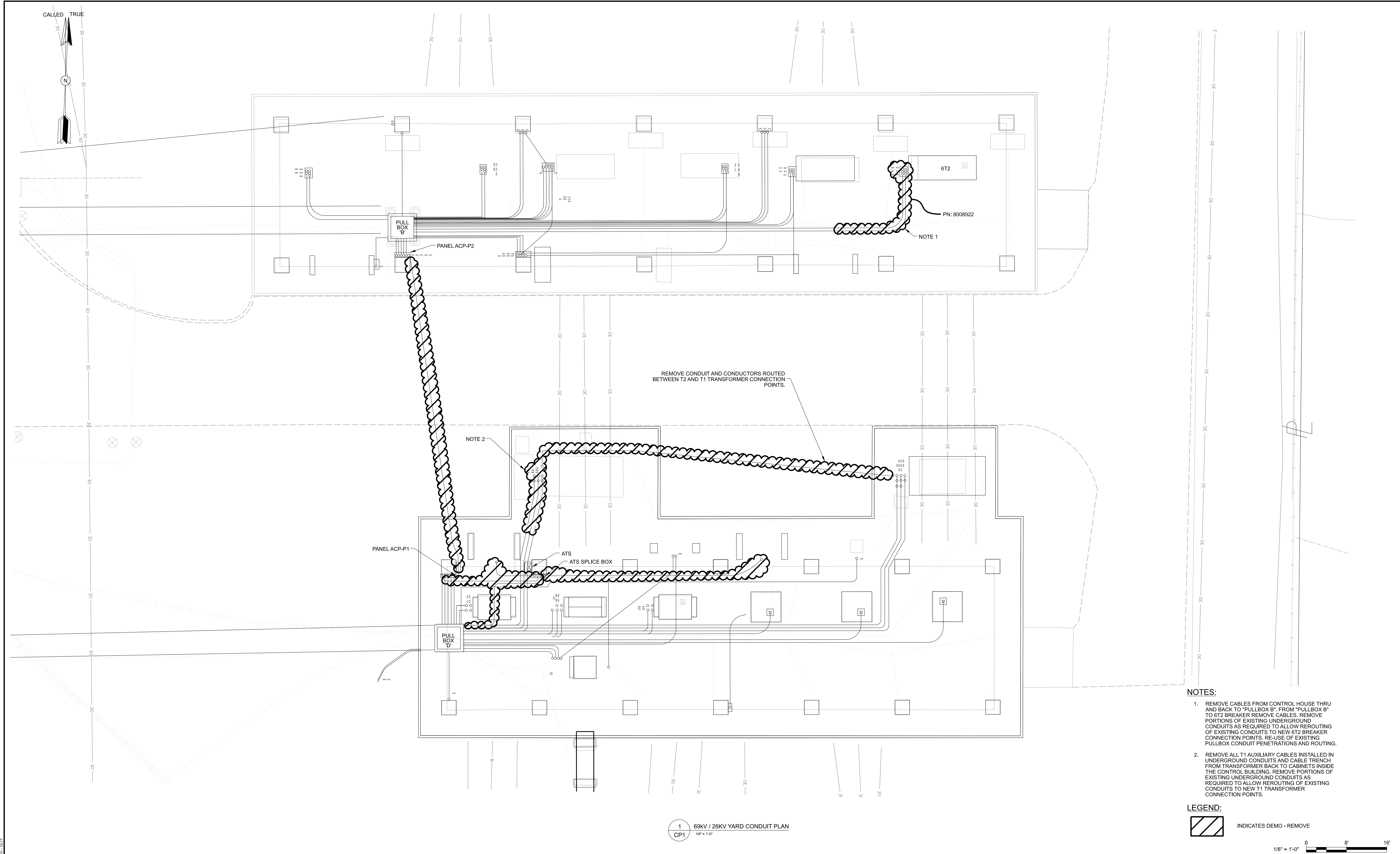
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PROJECT ID:

ME2024

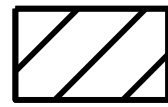
SEQUENCE #:

10 OF 14



- NOTES:
1. REMOVE CABLES FROM CONTROL HOUSE THRU AND BACK TO "PULLBOX B". FROM "PULLBOX B" TO 6T2 BREAKER REMOVE CABLES. REMOVE PORTIONS OF EXISTING UNDERGROUND CONDUITS AS REQUIRED TO ALLOW REROUTING OF EXISTING CONDUITS TO NEW 6T2 BREAKER CONNECTION POINTS. RE-USE OF EXISTING PULLBOX CONDUIT PENETRATIONS AND ROUTING.
 2. REMOVE ALL T1 AUXILIARY CABLES INSTALLED IN UNDERGROUND CONDUITS AND CABLE TRENCH FROM TRANSFORMER BACK TO CABINETS INSIDE THE CONTROL BUILDING. REMOVE PORTIONS OF EXISTING UNDERGROUND CONDUITS AS REQUIRED TO ALLOW REROUTING OF EXISTING CONDUITS TO NEW T1 TRANSFORMER CONNECTION POINTS.


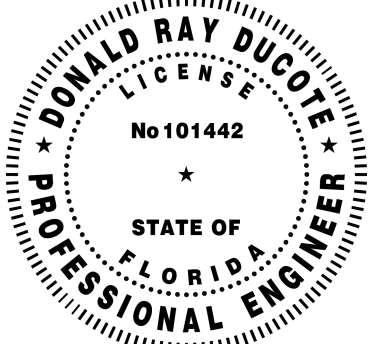
LEGEND:

 INDICATES DEMO - REMOVE

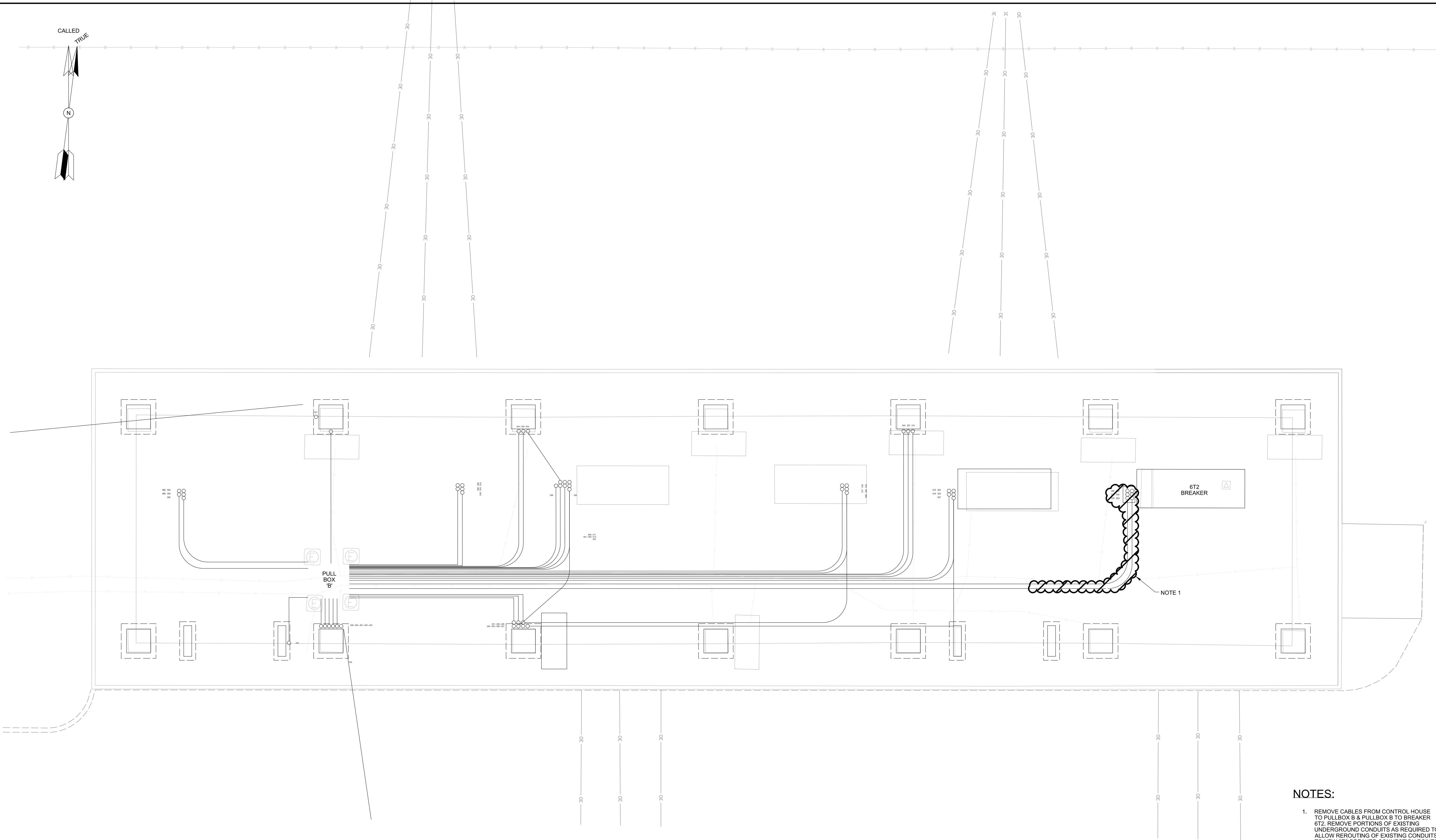
0 8' 16'

1/8" = 1'-0"

1 69KV / 26KV YARD CONDUIT PLAN
CP1 1/8" = 1'-0"

 DELIVERING SUSTAINABLE CHANGE ONE MERIDIAN BOULEVARD, SUITE 2002, WYOMISSING, PA, 19610 FL COA 8777	PROFESSIONAL ENGINEER'S SEAL		REV	DATE	PROJ #	REVISION DESCRIPTION	BY	REVIEW	ENGINEERING	T1 REPLACEMENT AND TWO FEEDER ADDITIONS DEMO 69KV / 26KV CONDUIT PLAN MERRILL ROAD 69KV / 26KV SUBSTATION TRANSMISSION & SUBSTATION PROJECTS - 20410	SHEET NUMBER: CP1_DEMO PROJECT ID: ME2024 SEQUENCE #: 11 OF 14
	LATEST REVISION ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF PE: <u>DONALD RAY DUCOTE</u> LIC. NO.: <u>101442</u> STATE: <u>FL</u> DATE: <u>08/18/25</u>		0	08/18/25	8009313 8008922	ISSUED FOR CONSTRUCTION	SAG	DRD	DATE 9/2020 BY RMS REVIEW JWR		
1/8" = 1'-0"											
SCALE: AS SHOWN											
PROJ #: 8009313 & 8008922											

JEAN-PAUL DUCOTE (0613) - CP2 DEMO.DWG 2024-06-18 15:27

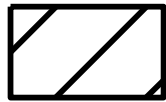


1 69kV YARD CONDUIT PLAN
CP2 3/16" = 1'-0"

NOTES:

1. REMOVE CABLES FROM CONTROL HOUSE TO PULLBOX B & PULLBOX B TO BREAKER
6T2. REMOVE PORTIONS OF EXISTING UNDERGROUND CONDUITS AS REQUIRED TO ALLOW REROUTING OF EXISTING CONDUITS TO NEW 6T2 BREAKER CONNECTION POINTS.

LEGEND:



INDICATES DEMO - REMOVE

3/16" = 1'-0" 0 4' 8'



ONE MERIDIAN BOULEVARD, SUITE 2002,
WYOMISSING, PA, 19610
FL COA 8777

FOR 90% REVIEW ONLY
NOT FOR CONSTRUCTION

PROFESSIONAL
ENGINEER'S SEAL

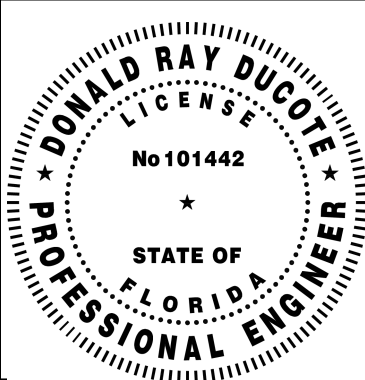
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THE RESPONSIBLE SUPERVISION OF

PE: DONALD RAY DUCOTE

U.C. NO.: 101442

STATE: FL

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						REVIEW JWR
						DRAFTING
						DATE 9/2020
						BY RMS
						REVIEW JWR

T1 REPLACEMENT AND TWO FEEDER ADDITIONS
DEMO 69kV YARD CONDUIT PLAN

MERRILL ROAD 69kV / 26kV SUBSTATION

SCALE: AS SHOWN

TRANSMISSION & SUBSTATION PROJECTS - 20410



PROJ #: 8009313 & 8008922

SHEET NUMBER:

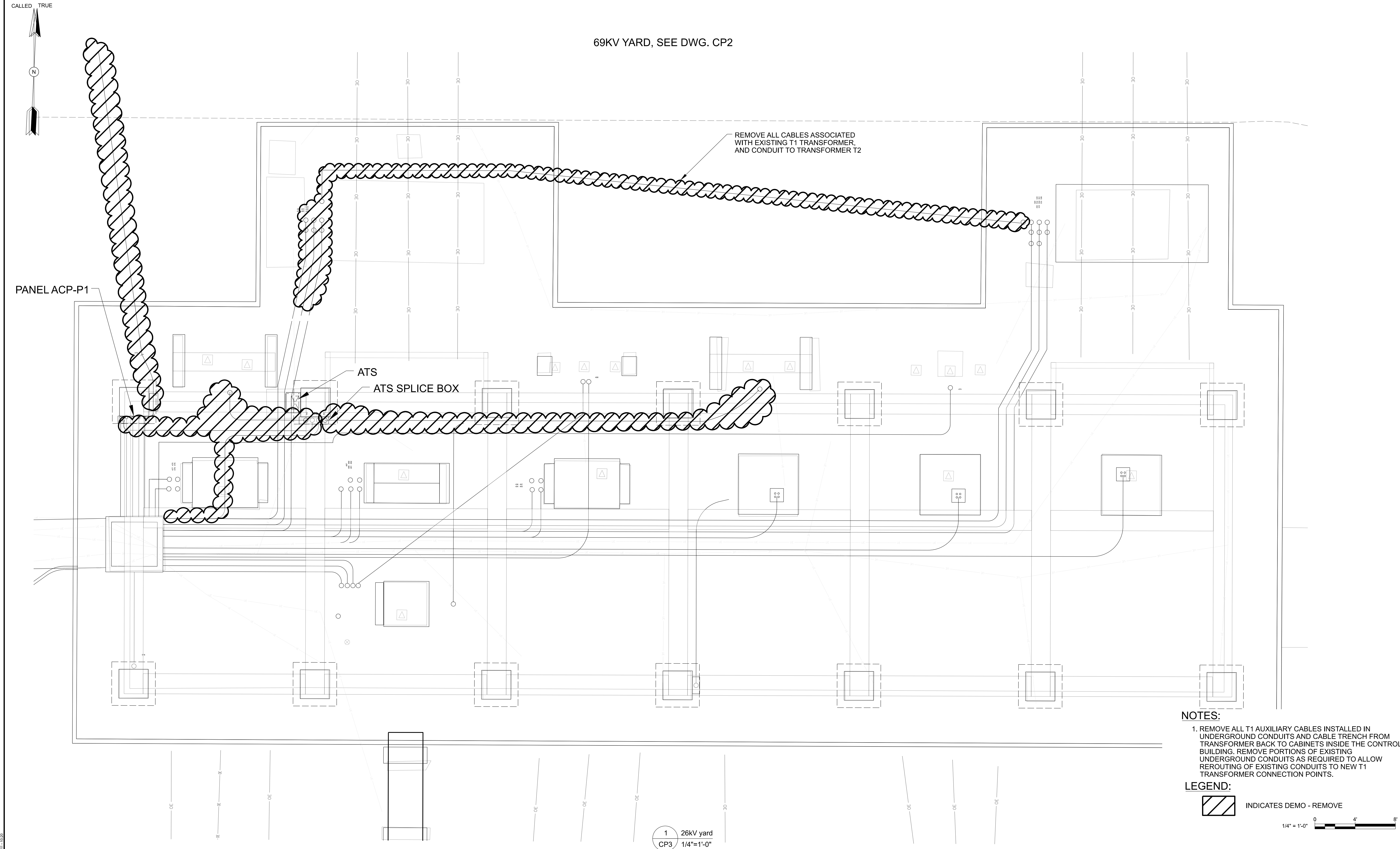
CP2_DEMO

PROJECT ID:


ME2024

SEQUENCE #:

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JEAN-PAUL DUCOTE (0610) - CP3 DEMO DWG 2024-01-10-20



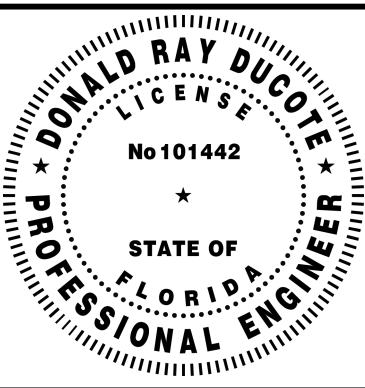
DELIVERING SUSTAINABLE CHANGE

ONE MERIDIAN BOULEVARD, SUITE 2002,
WYOMISSING, PA, 19610
FL COA 8777

ISSUED FOR
CONSTRUCTION

PROFESSIONAL
ENGINEER'S SEAL


LATEST REVISION
ORIGINALLY PREPARED UNDER
THE RESPONSIBLE SUPERVISION OF
PE: DONALD RAY DUCOTE
LIC. NO.: 101442
STATE: FL
DATE: 08/18/25



REV	DATE	PROJ #	REVISION DESCRIPTION	BY	REVIEW	ENGINEERING
0	08/18/25	8009313 8008922	ISSUED FOR CONSTRUCTION	SAG	DRD	DATE 9/2020 BY RMS REVIEW JWR DRAFTING
						DATE 9/2020 BY RMS REVIEW JWR

T1 REPLACEMENT AND TWO FEEDER ADDITIONS
DEMO 26kV CONDUIT PLAN

MERRILL ROAD 69kV / 26kV SUBSTATION
TRANSMISSION & SUBSTATION PROJECTS - 20410



BUILDING COMMUNITY

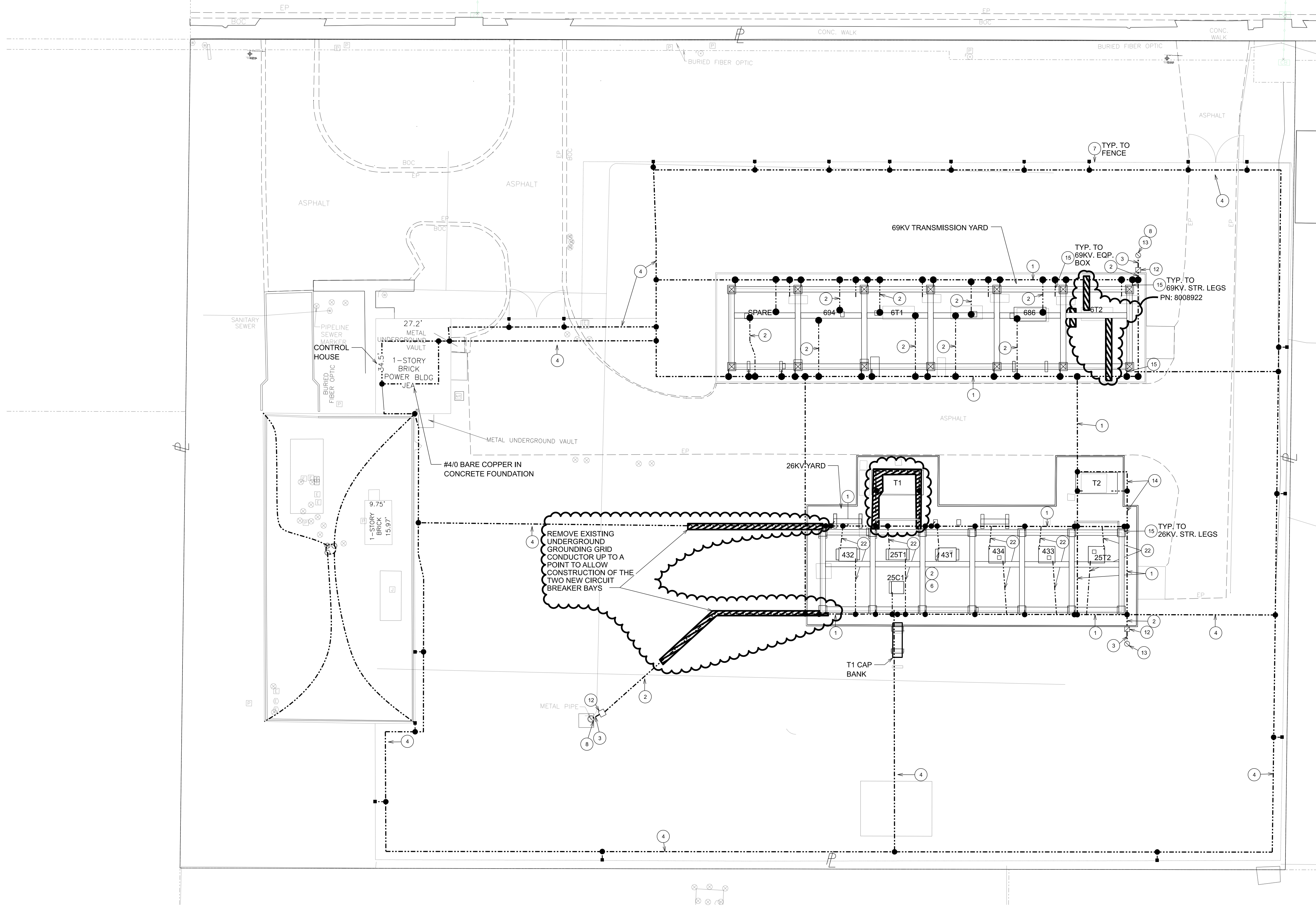
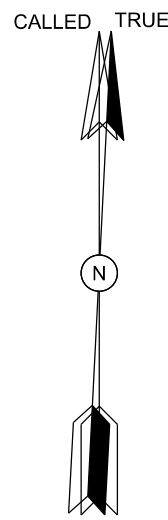
SHEET NUMBER:
CP3_DEMO

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13 OF 14

SCALE:
AS SHOWN

PROJ #:
8009313 & 8008922



1 DEMO 69kV / 26kV GROUNDING PLAN
GP1 1" = 20'-0"

BILL OF MATERIAL GROUNDING				
ITEM NO.	AMT REQD	DESCRIPTION	SIMILAR OR APPD CAT. NO.	EXISTING OR NEW
1	670FT	CABLE - 1000KCMIL BARE COPPER, STRANDED SOFT DRAWN	GEN. CABLE B-A-61	EXISTING
2	220FT	CABLE - 500KCMIL BARE COPPER, STRANDED SOFT DRAWN	GEN. CABLE B-A-37	EXISTING
3	15FT	CABLE - #40 BARE COPPER, STRANDED	GEN. CABLE RU-1-1956	EXISTING
4	1090FT	CABLE - #40 BARE COPPER, STRANDED	GEN. CABLE A-12	EXISTING
5	150FT	CABLE - 20 BARE COPPER, STRANDED, SOFT DRAWN	GEN. CABLE A-7	EXISTING
6	6	CONNECTOR GROUND	BURNDY NA34-2N	EXISTING
7	80	CONNECTOR GROUND	BURNDY GA1829	EXISTING
8	3	CONNECTOR GROUND	BURNDY GQ2454	EXISTING
9	4	CONNECTOR GROUND	BURNDY FGF28-2	EXISTING
10	3	CONNECTOR GROUND	BURNDY GC2929	EXISTING
11	6	CONNECTOR GROUND	BURNDY GQA-34-2	EXISTING
12	5	BOX, CONCRETE METER	ART CONCRETE NO.38	EXISTING
13	300FT	2" GALVANIZED IRON PIPE ROCK WELL		
14	185FT	CABLE - 500KCMIL BARE COPPER, STRANDED, SOFT DRAWN	GEN. CABLE B-A-61	EXISTING
15	60FT	CABLE - 20 BARE COPPER, STRANDED, SOFT DRAWN	GEN. CABLE A-7	EXISTING
22	AS REQD	CABLE - 7#5 BARE COPPERCLAD		EXISTING

GENERAL NOTES:

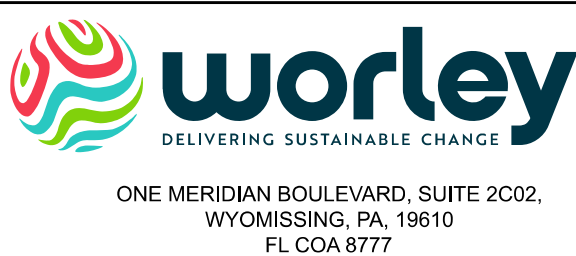
- THIS DRAWING INCLUDES EXISTING GROUNDING INSTALLATION THAT WAS TAKEN FROM HISTORICAL DRAWINGS AND HAS NOT BEEN FIELD VERIFIED.

LEGEND:

- BURIED GROUND GRID CONDUCTOR (SEE BOM FOR TYPE)
- GROUND GRID CONNECTION AS NOTED IN B/M
- EXOTHERMIC GROUND GRID CONNECTION
- MECHANICAL GROUND CONNECTION
- FENCELINE
- ROCK WELL SEE B/M #13
- CONCRETE METER BOX
- BILL OF MATERIAL (B/M)
- TO BE REMOVED

GROUNDING NOTES:

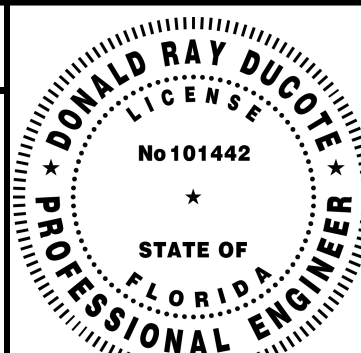
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL 19#8 AND 7#5 COPPERWELD CONDUCTORS. ALL GROUND GRID CONDUCTORS AND TAPS SHALL BE CONNECTED USING CADWELD EXOTHERMIC CONNECTIONS AND SHALL BE INSTALLED 24" BELOW GRADE EXCEPT WHERE CONNECTION TO STRUCTURES AND EQUIPMENT IS ABOVE GRADE. GRID CONDUCTORS UNDERNEATH THE OIL CONTAINMENT SHALL BE 6" BELOW THE RESPECTIVE FOUNDATIONS.
- MAIN GRID IS NOTED AS 1000 CU AS INSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TO THE MAIN GROUND GRID CONDUCTOR. THE CONTRACTOR SHALL VERIFY THE FINAL LOCATION OF THE 7#5 COPPERWELD CONDUCTOR GROUND TAP CONNECTIONS TO THE STRUCTURES AND EQUIPMENT USING THE MANUFACTURER'S SHOP DRAWINGS. THE LOCATIONS OF GROUND TAPS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY.
- THE 500 KCMIL TRANSFORMER NEUTRAL GROUND CABLE SHALL BE CONTINUOUS FROM THE NEUTRAL GROUND CONNECTION AT THE TRANSFORMER AND BE CONNECTED IN TWO (2) PLACES TO MAIN GRID APPROXIMATELY 3'-0" APART.
- THIS DRAWING DEPICTS THE INSTALLATION OF THE MAIN SUBSTATION GROUND GRID. MAJOR ELECTRICAL EQUIPMENT GROUND CONNECTIONS, AND STRUCTURE GROUND CONNECTIONS. THE CONTRACTOR SHALL REFER TO THE GROUNDING DETAIL DRAWINGS FOR OTHER GROUND GRID CONNECTIONS THAT MAY BE REQUIRED BUT NOT SHOWN ON THIS DRAWING. LOW VOLTAGE EQUIPMENT AND CIRCUITS SHALL HAVE EQUIPMENT GROUND CONDUCTOR INSTALLED AS PER NEC REQUIREMENTS.
- ALL ABOVE GRADE CONNECTIONS OF GROUND CONDUCTOR TO STRUCTURES AND EQUIPMENT, SUCH AS TRANSFORMERS, LIGHTNING ARRESTERS, ETC., SHALL BE CONNECTED USING OWNER FURNISHED MECHANICAL CONNECTORS. ALL EQUIPMENT AND STRUCTURES ERECTED IN THE SUBSTATION SHALL BE GROUNDED TO THE MAIN GRID WITHIN THE SAME WORKING DAY.
- MANHOLES NEAR THE SUBSTATION SHALL HAVE THEIR GROUND CONDUCTORS CONNECTED TO THE GROUND GRID BY THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH AND INSTALL GROUND PROVISIONS FOR THE DISTRIBUTION MANHOLE AS DETAILED IN DWG GD1.
- ALL METALLIC BOLLARDS, HANDRAILS OR ANY OTHER REMAINING MISCELLANEOUS CONDUCTIVE OBJECTS WITHIN THE STATION GROUND GRID AREA SHALL BE CONNECTED TO THE GROUNDING GRID WITH CONTRACTOR FURNISHED MECHANICAL CONNECTORS AS REQUIRED.
- FOR BILL OF MATERIAL ITEMS NOT SHOWN ON THIS GROUNDING PLAN PLEASE REFER TO ME622GP1.
- INSTALL AND PROVIDE MATERIALS FOR 7#5 COPPERCLAD IN (2) PLACES FROM 6T2 DIRECTLY TO MAIN GRID.



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T1 REPLACEMENT AND TWO FEEDER ADDITIONS
DEMO 69kV / 26kV GROUNDING PLAN



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