

EQUIPMENT GROUNDING CONDUCTORS

FUSE OR CB	SIZE (COPPER)			
15	14			
SIZE 15 20 30 40	12			
30	14 12 10 10			
40	10			
60 100 200 300 400 500 600	10 8 6 4 3			
100	8			
200	6			
300	4			
400	3			
500	2			
600	1			
800	1/0			
1000	2/0			
1200	3/0			
1600	4/0			
2000	250			
2500	350			

GROUNDING ELECTRODE CONDUCTOR SERVICE ENTRANCE OR SEPARATELY DERIVED SYSTEM

I	COPPER	WIRE
ı	CONDUCTOR	SIZE
	#2 OR	#8
ı	SMALLER	
ı	1 OR 1/0	#6
	2/0 OR 3/0	#4
I	>3/0 THRU	#2
ı	350 KCMIL	<i>"-</i>
I	>350 KCMIL	
ı	THRU 600	1/0
ı	KCMIL	

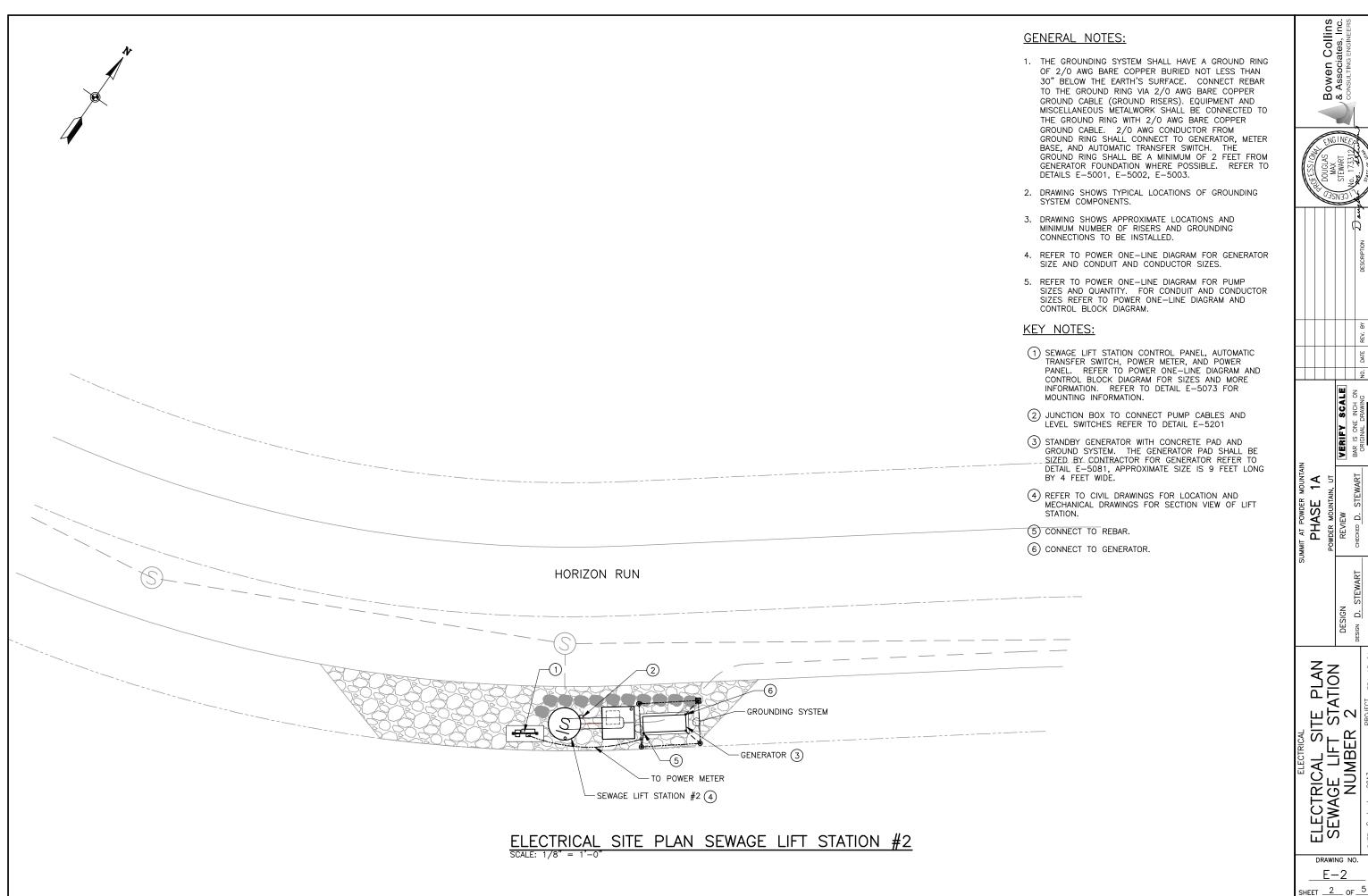
GENERAL NOTES:

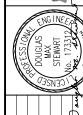
- 1. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH—IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO ENSURE NEC CODE CLEARANCE REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- 2. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED BEFORE BEGINNING ROUGH—IN.
- 3. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH—IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC.
- 4. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH ELECTRICAL ROOMS OR SPACES; OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN THE OTHER AREAS.
- 5. ALL PENETRATIONS OF FLOORS, WALLS AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL.
- 6. FOR PACKAGE EQUIPMENT PROVIDED ON THE PROJECT, SOME CONDUITS AND WIRES ARE SHOWN ON THE DRAWINGS, BUT IT IS EXPECTED THAT SOME ADDITIONAL CONDUITS AND WIRES MAY BE REQUIRED BY EQUIPMENT MANUFACTURERS TO COMPLETE INSTALLATION. IT IS INCUMBENT UPON THE GENERAL CONTRACTOR TO COORDINATE THIS REQUIREMENT WITH HIS SUBCONTRACTORS TO MAKE SURE THAT EQUIPMENT SUPPLIER PROVIDED ALL NECESSARY ELECTRICAL INFORMATION TO ELECTRICAL SUBCONTRACTOR FOR INCLUSION WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS.
- 7. IF OTHER THAN FIRST NAMED EQUIPMENT IS USED, IT SHALL BE CAREFULLY CHECKED FOR ELECTRICAL REQUIREMENTS AND CONTROL REQUIREMENTS OF ALTERNATE EQUIPMENT. SHOULD CHANGES OR ADDITIONS OCCUR IN ELECTRICAL WORK, OR THE WORK OF OTHER CONTRACTORS BE REVISED BY THE ALTERNATE EQUIPMENT, THE COST OF ALL CHANGES SHALL BE BORNE BY THE CONTRACTOR.
- 8. IT IS THE ELECTRICAL SUBCONTRACTOR'S RESPONSIBILITY TO DELIVER THE COMPLETE SET OF PLANS IN ORDER TO INSURE THAT ALL ITEMS RELATED TO ELECTRICAL POWER AND CONTROL SYSTEMS ARE COMPLETELY ACCOUNTED FOR.
- 9. ALL EQUIPMENT DIMENSIONS SHOWN ON PLANS AND ELEVATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL USE THE SHOP DRAWINGS FOR PROPER LAYOUT, FOUNDATION AND PAD, ETC. FOR FINAL INSTALLATION WITHOUT ANY ADDITIONAL COST TO THE OWNER.
- 10. THE DRAWINGS DIAGRAMMATICALLY INDICATE THE DESIRED LOCATION AND ARRANGEMENT OF OUTLETS, CONDUIT RUNS, EQUIPMENT AND OTHERS ITEMS. DETERMINE EXACT LOCATIONS IN THE FIELD BASED ON PHYSICAL SIZE AND ARRANGEMENT OF EQUIPMENT, FINISHED ELEVATIONS, AND OTHERS OBSTRUCTIONS. LOCATIONS SHOWN ON THE DRAWINGS, HOWEVER, SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE.



ELECTRICAL SYMBOLS
AND NOTES
PROJECT 222_12_01

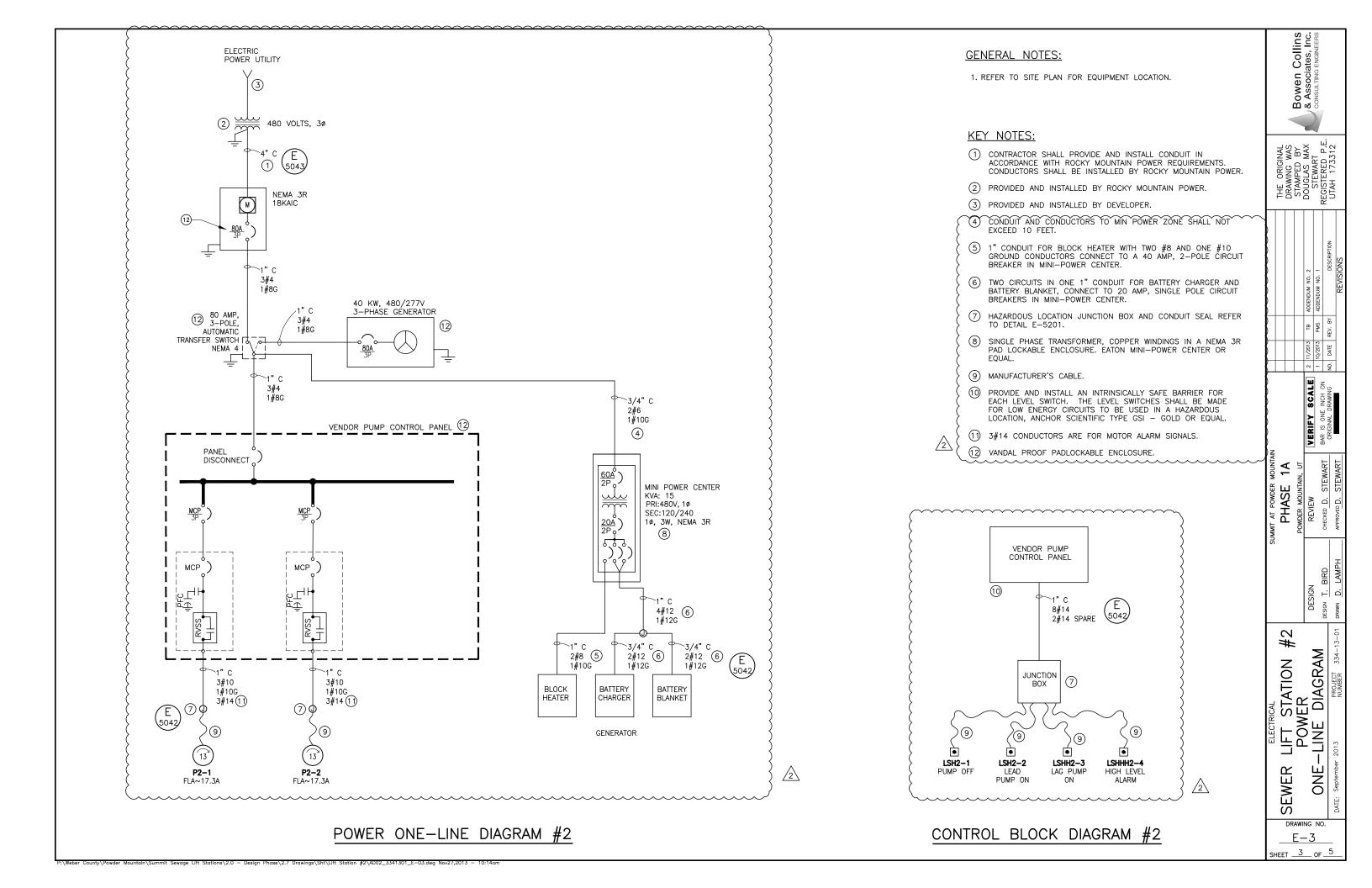
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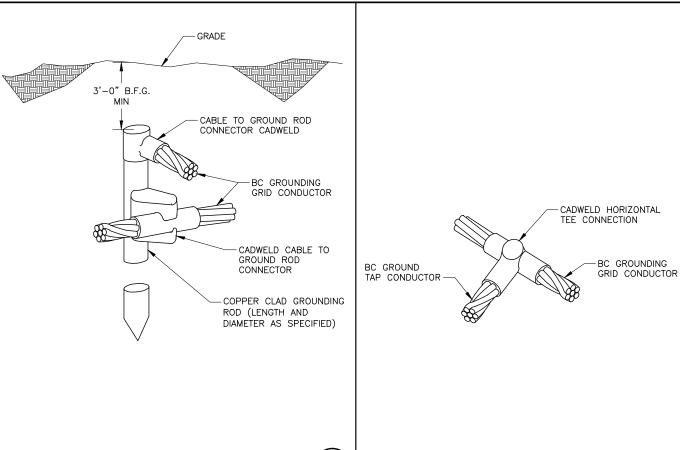


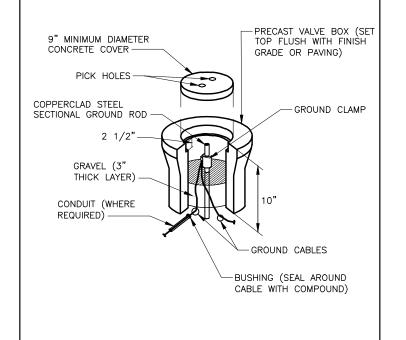


LECTRICAL SEWAGE LIFT

DRAWING NO.



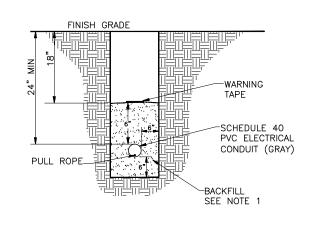




GROUND ROD AND WELL

E 5002

GROUND TAP



NOTES:

- 1. BACKFILL MATERIAL SHALL BE TYPE A,B, OR C COMPACTED TO 95% PER ASTM D 1557.
- 2. BACKFILL SHALL PASS THROUGH A 3/4" SIEVE.

CONDUIT TRENCH DETAIL SCALE: NTS



Bowen Collins & Associates, Inc.

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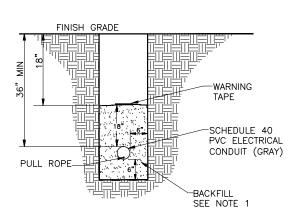
ELECTRICAL

DRAWING NO.

<u>GE-1</u> SHEET <u>4</u> OF <u>5</u>

T AT POWDER

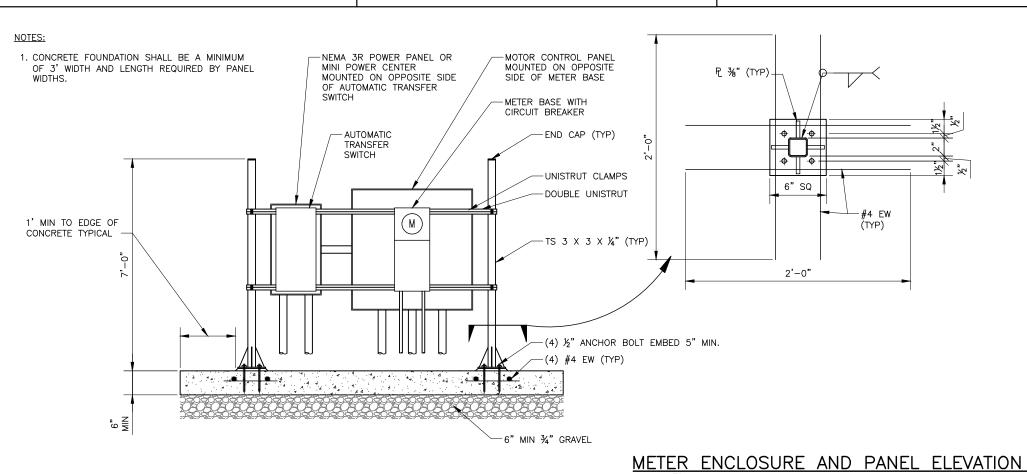
GROUND ROD CONNECTION E 5001



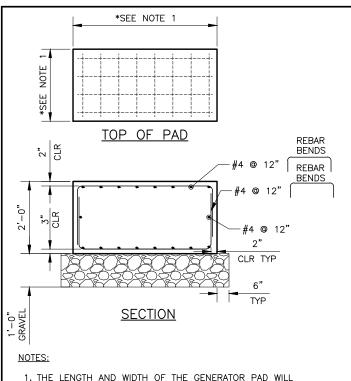
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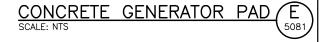
ROCKY MOUNTAIN POWER
CONDUIT TRENCH DETAIL
SCALE: NTS



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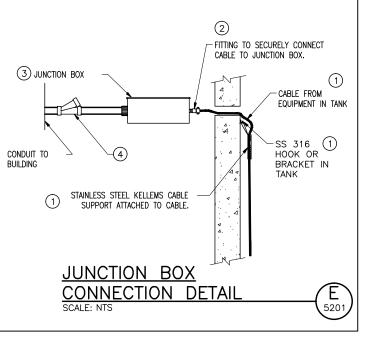


1. THE LENGTH AND WIDTH OF THE GENERATOR PAD WILL BE SIZED AS NEEDED TO ACCOMMODATE THE GENERATOR WITH AN ADDITIONAL EIGHT INCHES OF SPACE ON ALL SIDES. ANCHOR GENERATOR TO CONCRETE PAD WITH FOUR 5/8" EPOXY ANCHORS, MINIMUM 4" EMBEDDED INTO CONCRETE.



KEY NOTES:

- 1 DETAIL SHOWS INFORMATION FOR CABLE, SOME OF THE EQUIPMENT MAY HAVE CONDUIT CONNECTING TO THE JUNCTION BOX. THE CONDUITS WILL CONNECT DIRECTLY TO THE CROUSE—HINDS GUE OR GUB BOX.
- ② CROUSE—HINDS CGBS OR EBY CLASS 1 DIVISION 1 GROUP D CABLE CONNECTOR.
- (3) CROUSE—HINDS GUE OR GUB CLASS 1 DIVISION 1 GROUP D JUNCTION BOX.
- (4) CROUSE-HINDS EZS CONDUIT SEALING FITTING.



Bowen Collins Douglas See See										
					(Moraldosad	DESCRIPTION	REVISIONS		
						NO. DATE REV. BY				
z			POWDER MOUNTAIN, UT	VERIFY SCALE	NO HOW BING	BAR IS ONE INCH ON ORIGINAL DRAWING NO				
UMMIT AT POWDER MOUNTAIN				REVIEW		CHECKED D. SIEWARI		APPROVED J. BECKMAN		
าร				DESIGN		DESIGN D. STEWART		DRAWN D. LAMPH		
2								4-15-01		
ELECTRICAL		L DETAILS —					PROJECT 334-13-01 DRAWN D. LAMPH			
Ш	ELECTRICAL NOW BUIND NOW						DATE: September 2013			
DRAWING NO. $\underline{GE-2}$ SHEET $\underline{5}$ OF $\underline{5}$										