

EQUIPMENT GROUNDING CONDUCTORS

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

GROUNDING ELECTRODE CONDUCTOR SERVICE ENTRANCE OR SEPARATELY DERIVED SYSTEM

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

GENERAL NOTES:

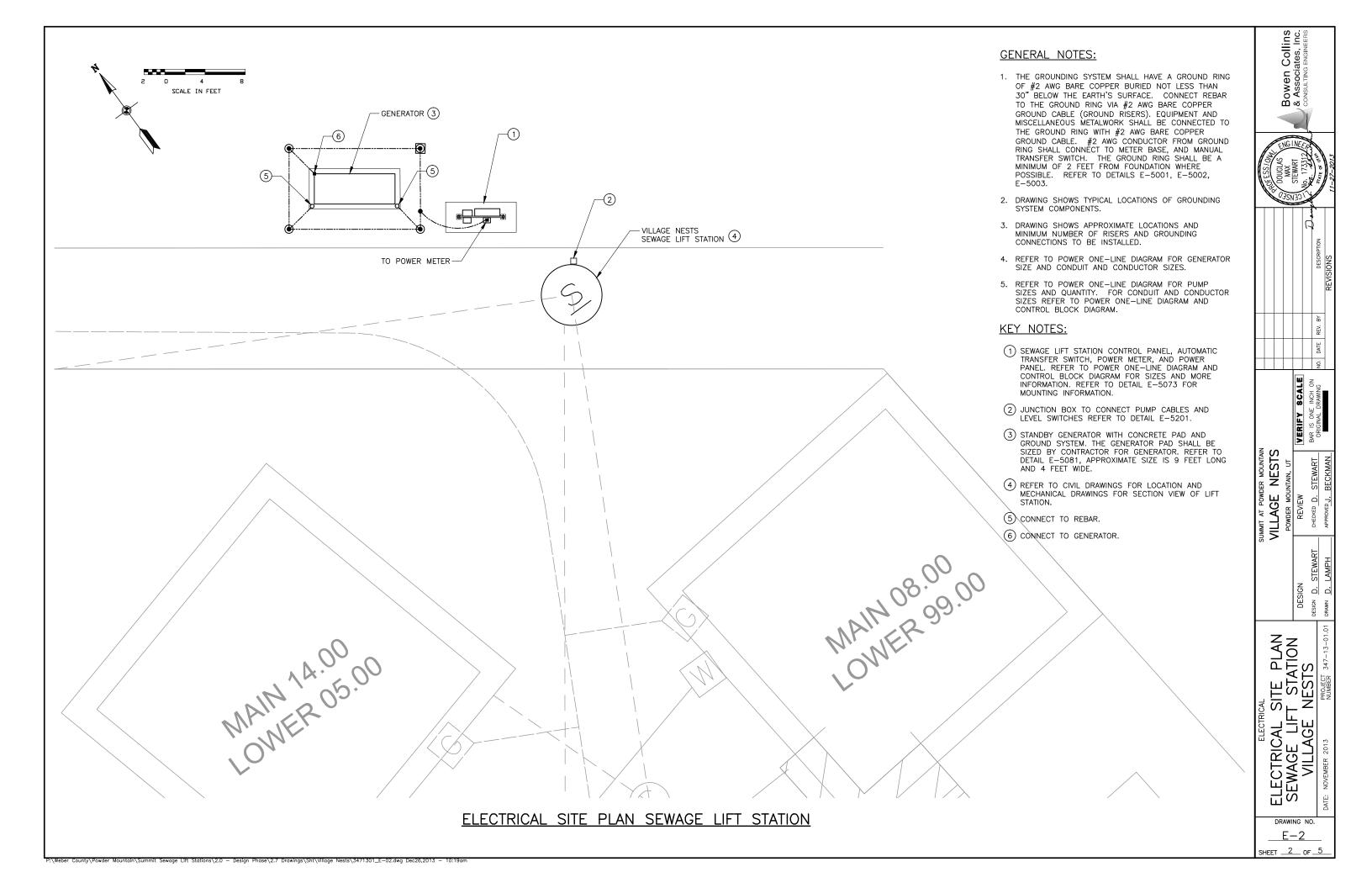
- 1. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH—IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO ENSURE NEC CODE CLEARANCE REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- 2. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) 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.

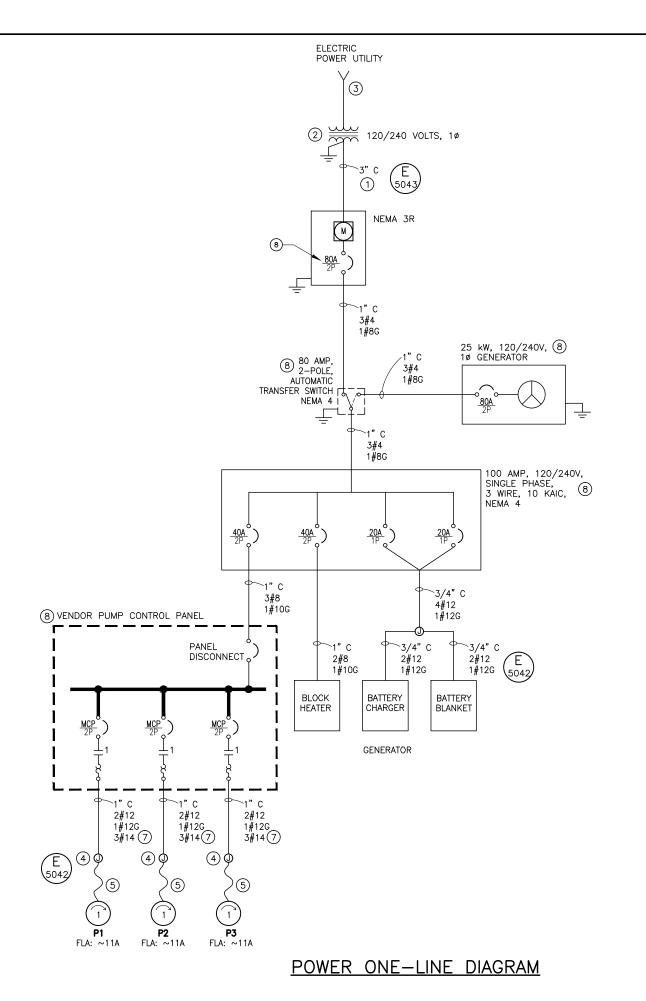


AL SYMBOLS
DESIGN
NOTES
PROJECT 347-13-01.01
PROJECT 347-13-01.01
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PROME APPROVED

ELECTRICAL SYMBOLS AND NOTES

P:\Weber County\Powder Mountain\Summit Sewage Lift Stations\2.0 - Design Phase\2.7 Drawings\Sht\Village Nests\3471301_E-01.dwg Nov27,2013 - 10:38am



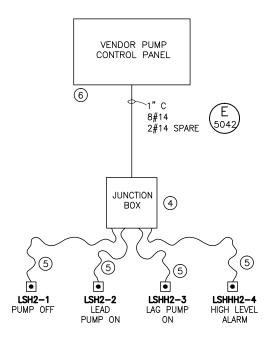


GENERAL NOTES:

1. REFER TO SITE PLAN FOR EQUIPMENT LOCATION.

KEY NOTES:

- CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT IN ACCORDANCE WITH ROCKY MOUNTAIN POWER REQUIREMENTS. CONDUCTORS SHALL BE INSTALLED BY ROCKY MOUNTAIN POWER.
- 2 PROVIDED AND INSTALLED BY ROCKY MOUNTAIN POWER.
- (3) PROVIDED AND INSTALLED BY DEVELOPER.
- (4) HAZARDOUS LOCATION JUNCTION BOX AND CONDUIT SEAL REFER TO DETAIL E-5201.
- (5) MANUFACTURER'S CABLE.
- 6 PROVIDE AND INSTALL AN INTRINSICALLY SAFE BARRIER FOR EACH LEVEL SWITCH. THE LEVEL SWITCHES SHALL BE MADE FOR LOW ENERGY CIRCUITS TO BE USED IN A HAZARDOUS LOCATION, ANCHOR SCIENTIFIC TYPE GSI GOLD OR EQUAL.
- 7) 3#14 CONDUCTORS ARE FOR MOTOR ALARM SIGNALS.
- B) VANDAL PROOF PADLOCKABLE ENCLOSURE.



CONTROL BLOCK DIAGRAM

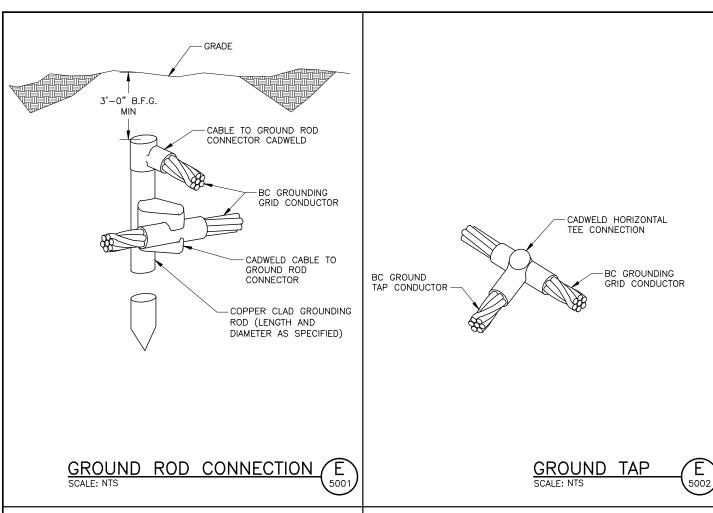
Bowen Collins & Associates, Inc. SUMMIT AT POWDER MOUNTAIN VILLAGE NESTS POWDER MOUNTAIN, UT # DIAGRAM

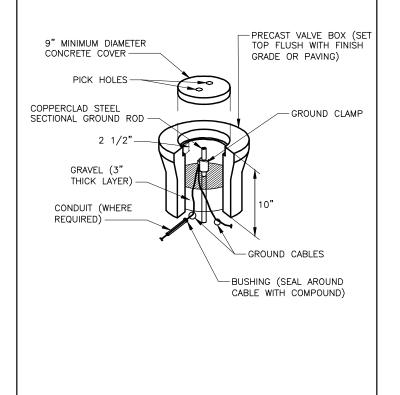
SEWER LIFT STATION
POWER
ONE—LINE DIAGRAM
DATE: NOVEMBER 2013
PROJECT 347-13-

DRAWING NO.

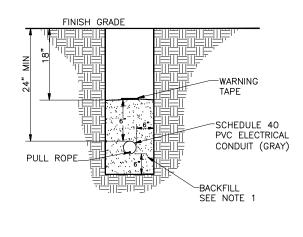
SHEET 3 OF 5

/eber County\Powder Mountain\Summit Sewage Lift Stations\2.0 — Design Phase\2.7 Drawings\Sht\Village Nests\34/1301_E-03.dwg Nov2/,2013 — 10:41c





GROUND ROD AND WELL



Bowen Collins & Associates, Inc.

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DER MOUNTAIN
NESTS

SUMMIT AT POWDE

DETAIL

ELECTRICAL

DRAWING NO.

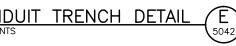
GE-1SHEET 4 OF 5

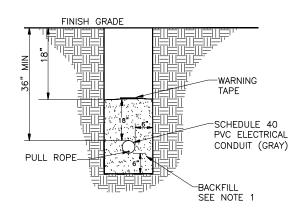
NOTES:

E 5003

- 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

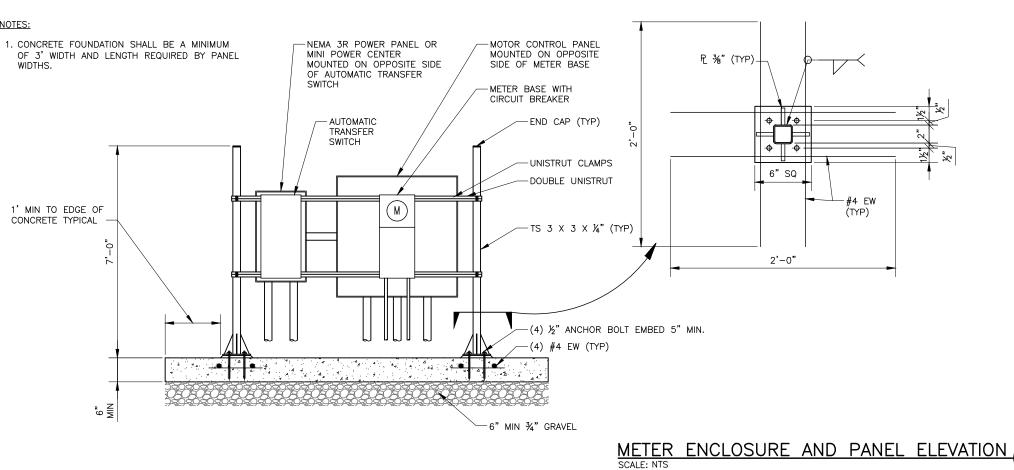


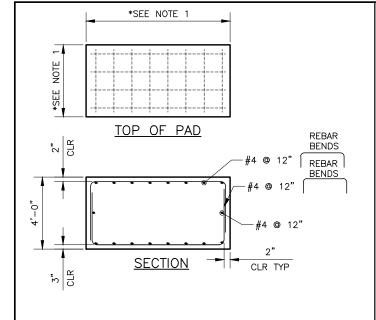


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ROCKY MOUNTAIN POWER CONDUIT TRENCH DETAIL





NOTES:

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

CONCRETE GENERATOR PAD E SCALE: NTS

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.
- $\begin{tabular}{lll} \hline \end{tabular}$ CROUSE-HINDS GUE OR GUB CLASS 1 DIVISION 1 GROUP D JUNCTION BOX.
- (4) CROUSE-HINDS EZS CONDUIT SEALING FITTING.

