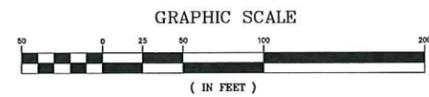




CAMPGROUND DEMOLITION PLAN



NOTES: SECTION "E" - SITE DEMOLITION PLAN

1. EXISTING UTILITY TRANSFORMER. CONTACT INDIANA MICHIGAN POWER AT 1(800)311-4634 WHEN WORKING AROUND TRANSFORMER. UTILITY WILL DISCONNECT HIGH VOLTAGE. TRANSFORMER IS PROPERTY OFR THE PARK.
2. CONTRACTOR SHALL REMOVE FROM CAMPGROUND METAL PEDESTAL RISER. REMOVE WIRE AND CONDUIT TO A MINIMUM DEPTH OF 24 INCHES BELOW GRADE. MATERIAL SHALL BE DISPOSED OF LEGALLY BY THE CONTRACTOR. FILL HOLES WITH TOP SOIL AND TAMP FIRM.
3. CONTRACTOR IS RESPONSIBLE FOR ALL LOCATOR SERVICE.

LEGEND

- EXIST. ELECT. PEDESTALS TO BE REMOVED
- GATE VALVE & VALVE BOX
- WATER
- TRAFFIC DIRECTIONAL FLOW ARROW
- SANITARY SEWER LINE
- UNDERGROUND ELECTRICAL LINE
- TRANSFORMER
- EXIST. DRINKING FOUNTAIN
- V.A.L.T. T.O.I.L.E.T.
- P.R.I.M.A.R.Y. E.L.E.C.T.R.I.C.



Certified by:

CAMPSITE
DEMOLITION PLAN

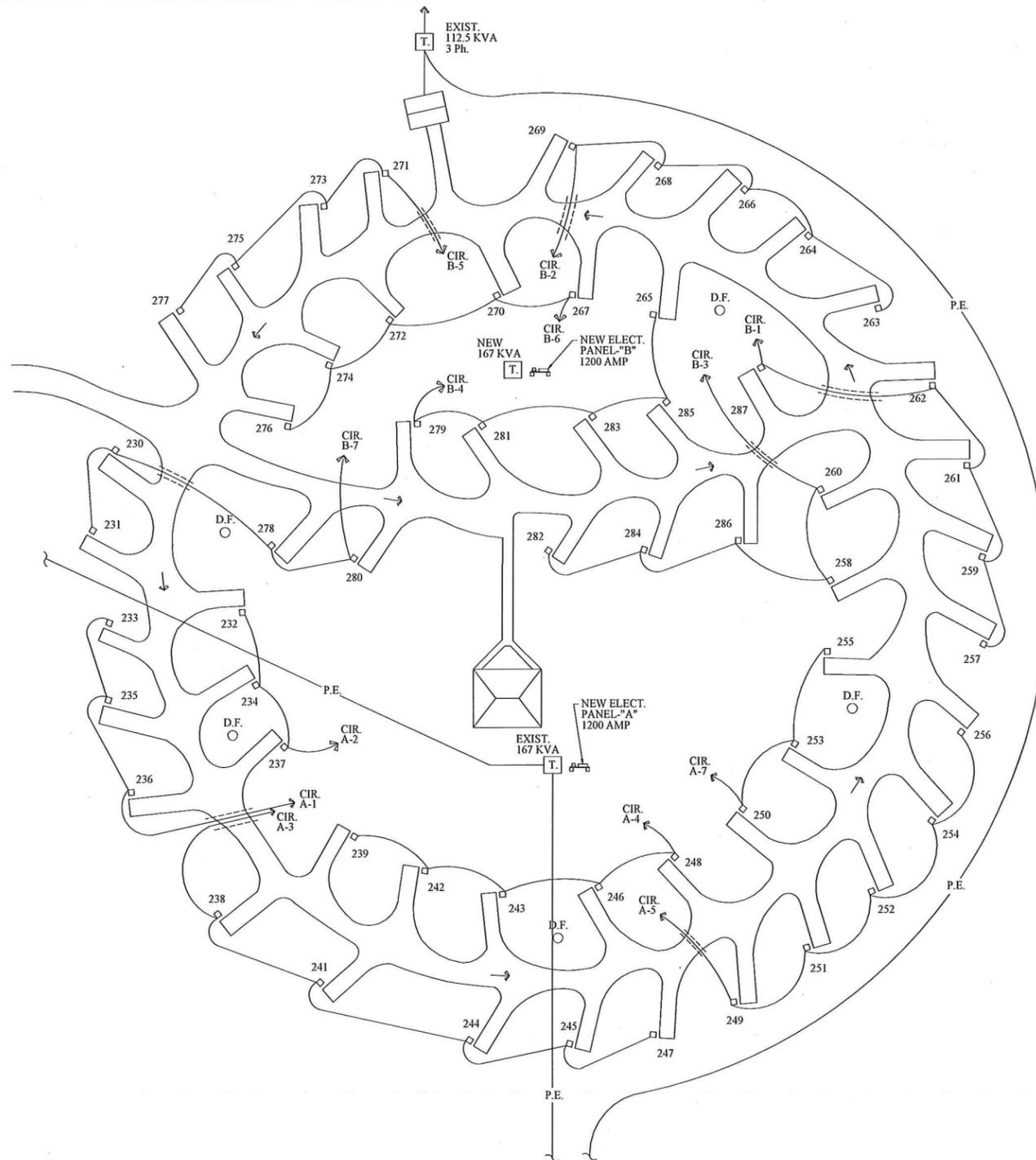
POTATO CREEK STATE PARK
NEW 50AMP ELECT. PEDESTALS - SECTION "E"
INDIANA DEPT. OF NATURAL RESOURCES
25601 ST. ROAD #4
NORTH LIBERTY, IN. 46554-0908



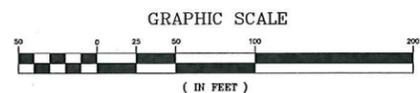
STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENGINEERING
ROOM W299, INDIANA GOVERNMENT CENTER SOUTH
402 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA 46204
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Revisions:

Project Number:	#E030283
Requisition Number:	Requisition#
Designer:	RGP
Drawing Date:	4/8/15
Drafter:	MAC
Drawing Scale:	AS NOTED
DNR Approval:	
Client Approval:	
File Number:	45-59
Drawing Number:	E-1
Sheet:	# of ##



CAMPGROUND INSTALLATION PLAN



LEGEND

- EXIST. ELECT. PEDESTALS TO BE REMOVED
- GATE VALVE & VALVE BOX
- WATER
- TRAFFIC DIRECTIONAL FLOW ARROW
- SANITARY SEWER LINE
- UNDERGROUND ELECTRICAL LINE
- TRANSFORMER
- EXIST. DRINKING FOUNTAIN
- V.A.L.T. TOILET
- PRIMARY ELECTRIC

NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES AND INDUSTRY STANDARDS.
2. THE NATIONAL ELECTRIC CODE (NEC) AND NATIONAL ELECTRICAL CONTRACTOR ASSOCIATION (NECA) STANDARDS SHALL BE CONSIDERED MINIMUM INSTALLATION STANDARDS.
3. THIS SITE PLAN DOES NOT SHOW CHANGES IN ELEVATION. NO CHANGE IN BID PRICE WILL BE ALLOWED FOR CHANGES IN ELEVATION OR INACCURACY OF THE SCALE OF THIS SITE PLAN. CONTRACTOR SHALL VISIT THE SITE AND MAKE NECESSARY MEASUREMENTS TO DETERMINE THE QUANTITY OF TRENCHING AND WIRE REQUIRED.
4. THIS SITE PLAN SHALL BE USED TO DETERMINE THE QUANTITY AND ORDER IN WHICH EACH ELECTRICAL PEDESTAL IS TO BE CONNECTED INTO EACH CIRCUIT, THE SIZE AND NUMBER OF WIRES BETWEEN PEDESTALS, THE SIZE, LOCATION AND NUMBER OF DISTRIBUTION PANELS, AND A GENERAL ROUTE FOR TRENCHING AND WIRE TO FOLLOW.
5. THE MINIMUM CLEARANCE BETWEEN THE BASE OF ANY TREE AND A TRENCH SHALL BE TEN (10) FEET. IF TWO TREES ARE LESS THAN TWENTY (20) FEET APART, THE CLEARANCE MAY BE REDUCED TO ONE-HALF THE DISTANCE BETWEEN THE TWO TREES. CONTACT THE OWNER REPRESENTATIVE FOR APPROVAL OF TRENCH LOCATION WHERE CLEARANCE IS LESS THAN FIVE (5) FEET FROM THE BASE OF THE TREE.
6. CONTRACTOR SHALL STAKE THE LOCATION OF EACH PEDESTAL USING DETAILS ON SHEET E-2. SOME CAMPSITES/RECREATION VEHICLE SITES HAVE IRREGULAR SHAPES. THE LOCATION OF POWER OUTLET PEDESTALS SHALL BE APPROVED BY THE OWNER REPRESENTATIVE PRIOR TO INSTALLATION.
7. ALL TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE AFTER THE INSTALLATION OF THE CONDUITS. IF ANY TRENCH IS LEFT OPEN AND UNATTENDED, IT SHALL BE COVERED BY MIN. 3/4" THICK BY MIN. TWO FEET WIDE PLYWOOD SECURED TO PREVENT ANY PERSON(S) OR ANIMAL FROM FALLING INTO THE EXCAVATION.
8. AT ALL PAVED AND/OR CHIP & SEAL CAMPSITE, ROADWAY, AND WALKWAY CROSSINGS CONTRACTOR SHALL PUSH FROM ONE SIDE TO THE OTHER SIDE A CONTINUOUS 2-1/2" DIA GALVANIZED RIBB STEEL OR 1 1/2" PVC SCHEDULE 40 CONDUIT LOCATED MIN. 24" BELOW EXISTING GRADE. CONDUIT SHALL EXTEND MIN. FIVE (5) FEET BEYOND EACH SIDE OF THE PAVED FEATURE.
9. ALL DISTURBED GROUND BY EITHER DEMOLITION OR INSTALLATION SHALL BE COMPACTED, LEVELED AND SEEDED. ANY SETTLEMENT OF GROUND SHALL BE LEVELED AND RE-SEED. CONTRACTOR SHALL PROVIDE FROM OFF THE PROPERTY ADDITIONAL TOP SOIL IF REQUIRED TO LEVEL ANY SETTLEMENT.
10. ALL ROCK LARGER THAN 4" IN DIAMETER OR NOT SUITABLE FOR BACKFILL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY BY THE CONTRACTOR.
11. CONTRACTOR SHALL FURNISH TWO (2) SPARE PEDESTALS FOR THE PROPERTY.
12. CONTRACTOR SHALL RUN NEW CONDUITS TO THE COMFORT STATIONS PER THE PANEL SCHEDULES SHOWN ON SHEET E-2. IF EXISTING CONDUIT TO MAIN DISCONNECT SWITCH IS ADEQUATE SIZE PER NEC, CONDUIT MAY BE REUSED. IF INADEQUATE INSTALL NEW CONDUIT AND PULL NEW CONDUITS PER SCHEDULE.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO WATER LINES, SEWERS, DRAINS, PIPE, COMMUNICATION LINES, ELECTRICAL LINES, STRUCTURES, OTHER UTILITIES, OR OTHER PROPERTY AS A RESULT OF CONTRACTOR'S ACTIVITY. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT AT CONTRACTOR EXPENSE. REPAIR AND/OR REPLACEMENT SHALL MEET THE APPROVAL OF THE OWNER.
14. WHERE PLOWING OR TRENCHING IS USED BY THE CONTRACTOR, PATH SHALL GO OUT AROUND THE PAD AREA, NOT OUT ACROSS THE PAD, AS DEFINED BY THE OWNER REPRESENTATIVE.
15. CONTRACTOR SHALL PROVIDE AND INSTALL UNDERGROUND CONDUIT FOR USE BY THE UTILITY TO INSTALL PRIMARY CONDUCTORS TO NEW TRANSFORMERS.

GENERAL NOTES:

1. ALL CAMPSITE PADS AND ROADS ARE EXISTING GRAVEL UNLESS OTHERWISE NOTED.
2. LOT LINES ARE FOR REFERENCE ONLY AND DO NOT DEPICT ACTUAL LOT CORNERS.
3. ACCESSIBLE SITES ARE EXISTING ASPHALT BASE.
4. EXISTING ROUTES OF UNDERGROUND ELECTRIC RUNS ARE SHOWN AS APPROXIMATE ONLY AND MAY VARY IN DETAIL IN ORDER TO CLEAR TREES, PHYSICAL OBSTRUCTIONS ETC. . .
5. ALL EXISTING LOCATIONS, SIZES AND INVERTS OF EXISTING UTILITIES ARE SHOWN BASED ON BEST INFORMATION POSSIBLE. HOWEVER, THE ENGINEER DOES NOT GUARANTEE OR ASSURE THAT SUCH INFORMATION IS TRUE OR EVEN APPROXIMATE. THIS CONTRACTOR SHALL DETERMINE WHICH UTILITIES MAY CONFLICT WITH HIS WORK AND VERIFY THEIR LOCATIONS, SIZES AND INVERTS, ETC., ADJUST HIS WORK ACCORDINGLY, AND BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE. CONTRACTOR SHALL REFER TO APPLICABLE SECTIONS OF THE SPECIFICATIONS RELATIVE TO THE ABOVE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO CONSTRUCTION.
7. REMOVE ALL EXISTING METAL PEDESTALS FROM CAMPGROUND SITE. REMOVE WIRE AND CONDUIT TO MINIMUM DEPTH OF 24" BELOW EXISTING GRADE. MATERIAL SHALL BE DELIVERED TO RECYCLER BY CONTRACTOR.
8. PROVIDE AND INSTALL NEW ELECTRICAL GEAR AND TRANSFORMER. THE UTILITY PROVIDER IS AMERICAN ELECTRIC POWER 1.800.311.4634. THE NEW TRANSFORMER WILL BE OWNED AND MAINTAINED BY STATE OF INDIANA.



Certified by:

NEW CAMPSITE
INSTALLATION PLAN

POTATO CREEK STATE PARK
NEW 50AMP ELECT. PEDESTALS - SECTION "E"
INDIANA DEPT. OF NATURAL RESOURCES
25601 ST. ROAD #4
NORTH LIBERTY, IN. 46554-0908



STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
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Revisions:

Project Number: #E030283

Requisition Number: Requisition#

Designer: RGP Drawing Date: 4/8/15

Drafter: MAC Drawing Scale: AS NOTED

DNR Approval:

Client Approval:

File Number: 45-59

Drawing Number: E-2

Sheet # of ##



Certified by:

ELECTRICAL
SITE DETAILS

POTATO CREEK STATE PARK
NEW 50AMP ELECTRICAL CAMPGRD. PEDESTALS
DEPT. OF NATURAL RESOURCES
2355 E. 75 SOUTH
ALBION, INDIANA 46701

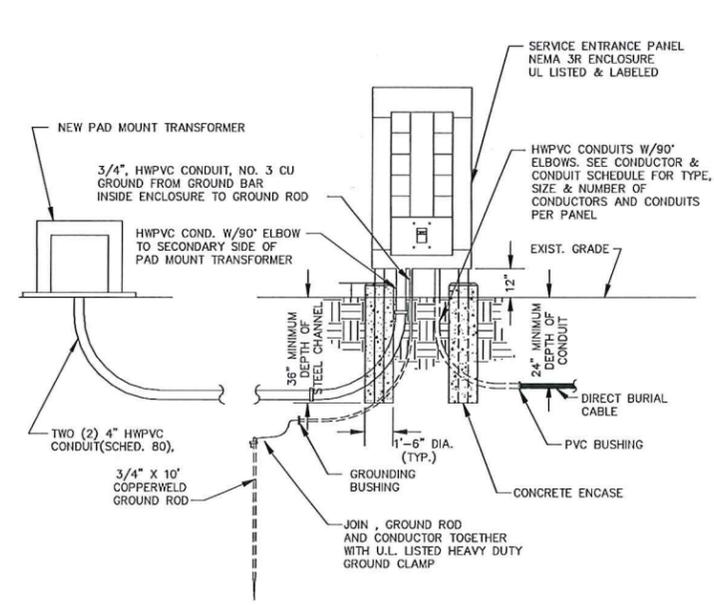


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TEL: 317-252-1195, FAX: 317-252-1205

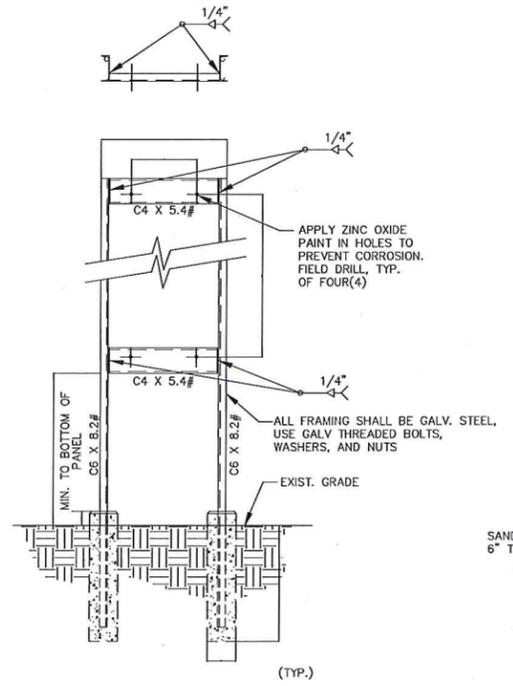
Revisions:

Project Number: #E030079
Requisition Number: Requisition#
Designer: RGP Drawing Date: 12/19/14
Drafter: MAC Drawing Scale: AS NOTED
DNR Approval:

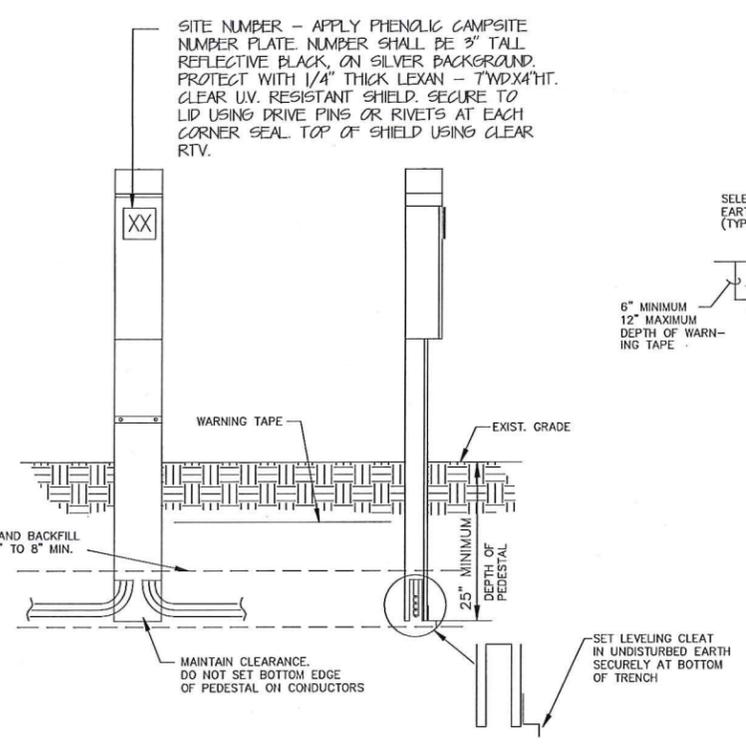
Client Approval:
File Number: 35-91
Drawing Number: E-3
Sheet: 1 of 5



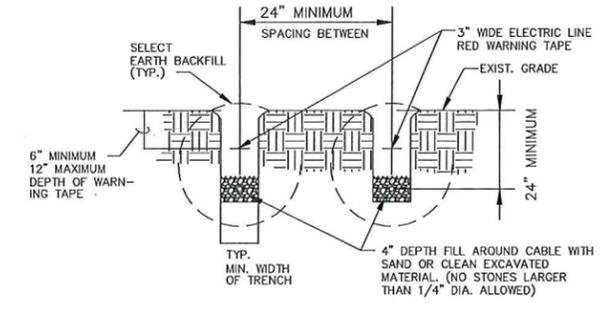
TRANSFORMER & DISTRIBUTION PANEL DETAILS
SCALE: NONE



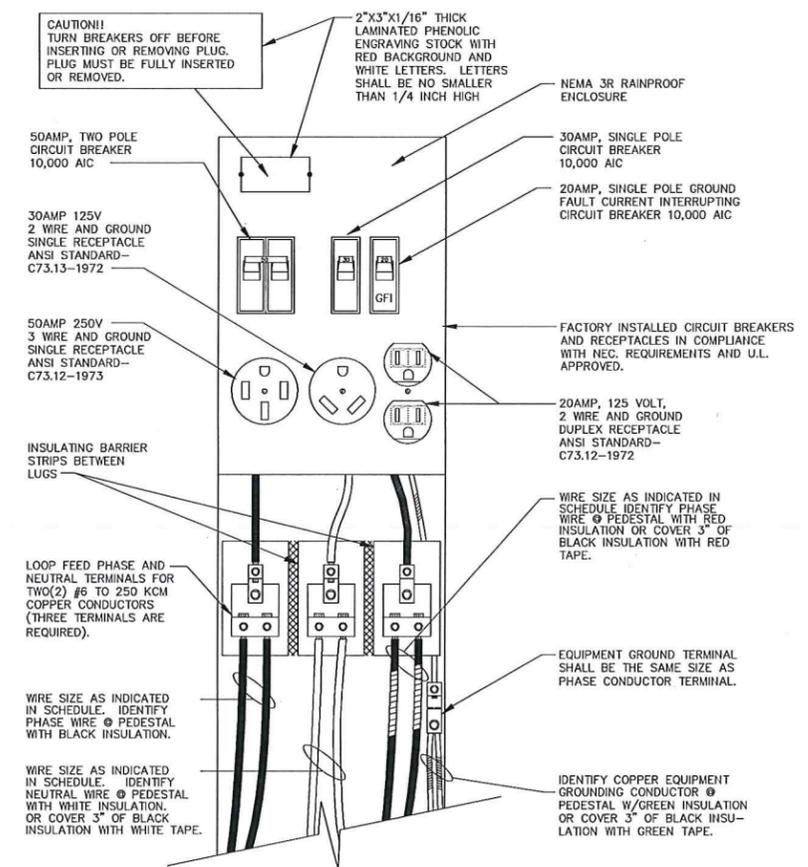
PANEL MOUNTING DETAIL
SCALE: NONE



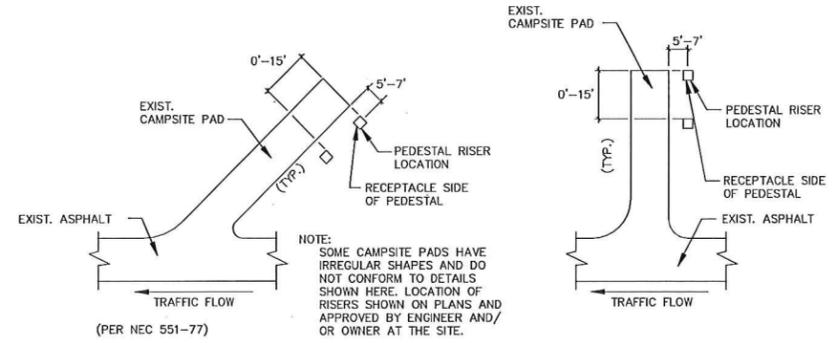
PEDESTAL RISER DETAIL
SCALE: NONE



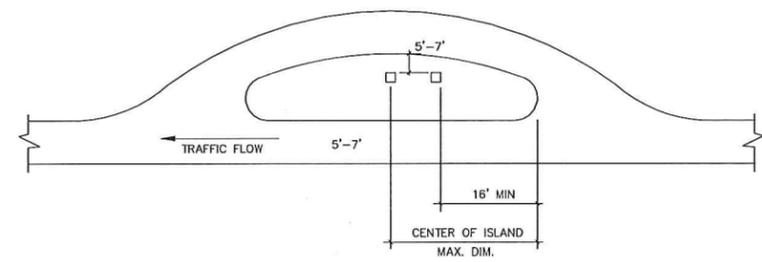
CONDUCTOR TRENCH DETAIL
SCALE: NONE



TYPE 2 PEDESTAL RISER WIRING DETAILS
SCALE: NONE



ELECTRIC PEDESTAL RISER LOCATION DETAILS
SCALE: NONE



ELECTRIC PEDESTAL RISER LOCATION DETAILS
SCALE: NONE



Electrical Panel Schedule Proposal #2

POTATO CREEK STATE PARK
 NEW 50AMP ELECTRICAL CAMPGRD. PEDESTALS
 DEPT. OF NATURAL RESOURCES
 25601 ST. RD. #4
 NORTH LIBERTY, INDIANA 46554-0908



Project Number: #E030283
 Requisition Number: 4/9/15
 Designer: RGP
 Drafter: MAC
 DNR Approval:
 Client Approval:
 File Number: 45-59
 Drawing Number: E-4
 Sheet: 5 of 5

PANELBOARD-"A" SCHEDULE									
PANEL # NEW DISTRIBUTION PANEL - "A"					LOCATION: TRANSFORMER "A" NEMA 3R RAINPROOF				
PANEL RATING		MAIN C/B FRAME: 1200A		SUB-FEED C/B FRAME: 1000A		SUB-FEED C/B FRAME: 1000A		SUB-FEED C/B FRAME: 1000A	
DESCRIPTION	CIR.	POLE/AMPS	LOAD (KW)	POLE/AMPS	LOAD (KW)	POLE/AMPS	LOAD (KW)	POLE/AMPS	DESCRIPTION
A-1	1.	2P-125A	28.8	BLACK	28.8	2P-125A	28.8	A-2	2.
	3.			RED					4.
	5.								6.
A-3	7.	2P-200A	48.0	BLACK	48.0	2P-200A	48.0	A-4	8.
	9.			RED					10.
	11.								12.
A-5	13.	2P-200A	48.0	BLACK	48.0	2P-400A	48.0	A-6	14.
	15.			RED				C-S	15.
	17.								16.
A-7	19.	2P-125A	28.8		12.0	2P-200A	28.8	A-8	20.
	21.							LTG.	21.
	23.								22.
	25.								23.
	27.				9.6	2P-100A	28.8	A-10	24.
	29.							W/H	25.
	31.								26.
	33.								27.
TOTAL LOAD:		153.6	+	146.4	=	300.0			28.

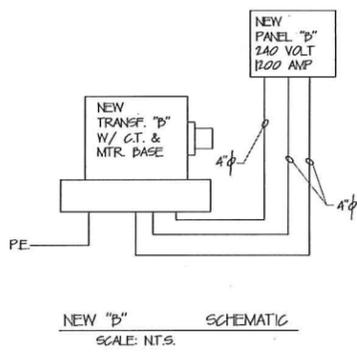
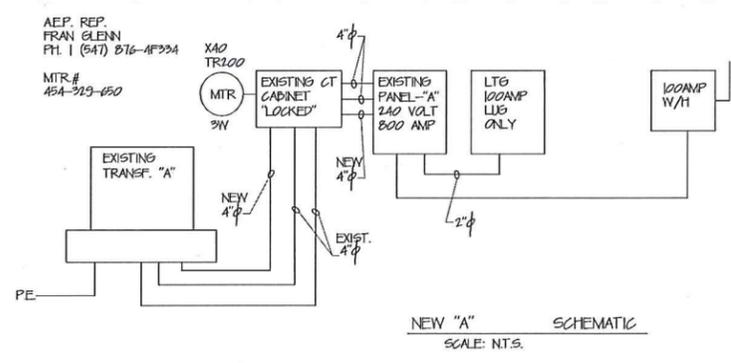
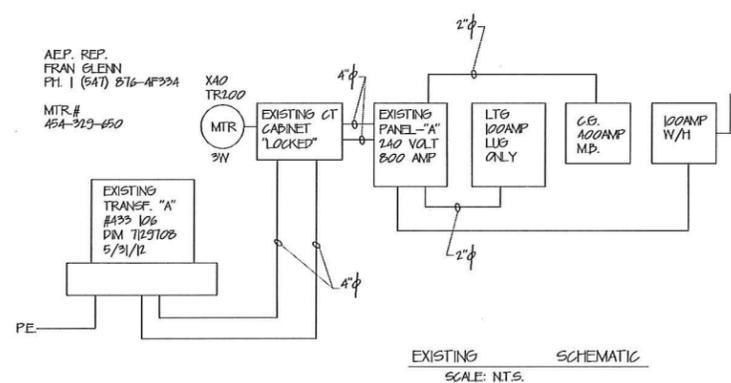
LOAD BALANCE CHECK: BLACK = 153.6 KW
 RED = 146.4 KW

PANELBOARD-"B" SCHEDULE									
PANEL # NEW DISTRIBUTION PANEL - "B"					LOCATION: TRANSFORMER "B" NEMA 3R RAINPROOF				
PANEL RATING		MAIN C/B FRAME: 1200A		SUB-FEED C/B FRAME: 1000A		SUB-FEED C/B FRAME: 1000A		SUB-FEED C/B FRAME: 1000A	
DESCRIPTION	CIR.	POLE/AMPS	LOAD (KW)	POLE/AMPS	LOAD (KW)	POLE/AMPS	LOAD (KW)	POLE/AMPS	DESCRIPTION
B-1	1.	2P-200A	48.0	BLACK	48.0	2P-200A	48.0	B-2	2.
	3.			RED					4.
	5.								6.
B-3	7.	2P-200A	48.0	BLACK	48.0	2P-200A	48.0	B-4	8.
	9.			RED					10.
	11.								12.
B-5	13.	2P-175A	38.4	BLACK	48.0	2P-200A	48.0	B-6	14.
	15.			RED					15.
	17.								16.
B-7	19.	2P-175A	38.4						17.
	21.								18.
	23.								19.
TOTAL LOAD:		172.8	+	144.0	=	316.8			20.

LOAD BALANCE CHECK: BLACK = 172.8 KW
 RED = 144.0 KW

- GENERAL NOTES
- CONTRACTOR SHALL INSTALL TYPE 2 50AMP 240VOLT PEDESTAL (COPPER INTERIOR) WITH GFI CIRCUIT BREAKER
 - THE LOAD ON ALL BRANCH CIRCUITS TO THE 120 VOLT RECEPTACLES SHALL BE BALANCED EQUALLY BETWEEN THE TWO PHASE CONDUCTORS BY THE METHOD OF ALTERNATING THE PHASE WIRE LOADING AT EACH PEDESTAL.

- ALLOWABLE CONDUCTOR TYPES:
- (3)- 1/2" TYPE USE WIRE (F&N); UL LISTED, ANNEALED CU, WITH VULCANIZED INTERLOCKED POLYETHYLENE INSULATION (600V); DIRECT BURIAL
 - (1)- 1/2" GROUND WIRE; BARE OR INSLATED (GREEN) CU, SOFT DRAWN, STANDARD PER ASTM CLASS "B" OR "C", DIRECT BURIAL



CONDUCTOR SCHEDULE									
CIR.	NO. & TYPE OF CONDUCTOR	RISER	CONDUIT	FROM	TO	SERVICE	VOLTS / COND. AMP RATING		
A-1	1/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.	DIRECT BURIAL	DISTRIBUTION PANEL - "A"	SITES 233, 235 & 236	REC. VEHICLE SITE POWER	120/240V 130AMP		
A-2	#1 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 232, 234, & 237		120/240V 150AMP		
A-3	4/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 247, 245, 244, 241 & 238		120/240V 230AMP		
A-4	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 248, 246, 243, 242 & 239		120/240V 200AMP		
A-5	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 256, 254, 252, 251 & 249		120/240V 200AMP		
A-6	EXISTING	EXISTING	EXISTING	EXISTING	COMFORT STATION	COMFORT STATION	120/240V EXISTING		
A-7	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.	DIRECT BURIAL		SITES 255, 253 & 250		120/240V 175AMP		
A-8	EXISTING	EXISTING	EXISTING		COMFORT STATION	LIGHTING PANEL	EXISTING		
A-9									
A-10						WATER HEATER			
B-1	4/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.	DIRECT BURIAL	DISTRIBUTION PANEL - "B"	SITES 257, 259, 261, 262 & 287	REC. VEHICLE SITE POWER	120/240V 230AMP		
B-2	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 269, 268, 266, 264 & 263		120/240V 200AMP		
B-3	4/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 282, 284, 286, 258 & 260		120/240V 230AMP		
B-4	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 279, 281, 283, 285 & 265		120/240V 200AMP		
B-5	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 277, 275, 273 & 271		120/240V 200AMP		
B-6	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 267, 270, 272, 274 & 276		120/240V 200AMP		
B-7	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.	DIRECT BURIAL	DISTRIBUTION PANEL - "B"	SITES 231, 230, 278 & 280	REC. VEHICLE SITE POWER	120/240V 175AMP		
NEW	(4) 350 KCMIL CU. / PH. & N	(2) 4" MIN. DIA.	(2) 4" PVC	TRANSFORMER "A" 167 KVA	PANEL - "A" 1200 AMP	CAMPGROUND	120/240V (4) 300AMP		
NEW	(4) 350 KCMIL CU. / PH. & N	(2) 4" MIN. DIA.	(2) 4" PVC	TRANSFORMER "B" 250 KVA	PANEL - "B" 1200 AMP	CAMPGROUND	120/240V (4) 300AMP		