

DEPARTMENT OF NATURAL RESOURCES

ELECTRICAL DISTRIBUTION RENOVATION @ TURKEY RUN CAMPGROUND

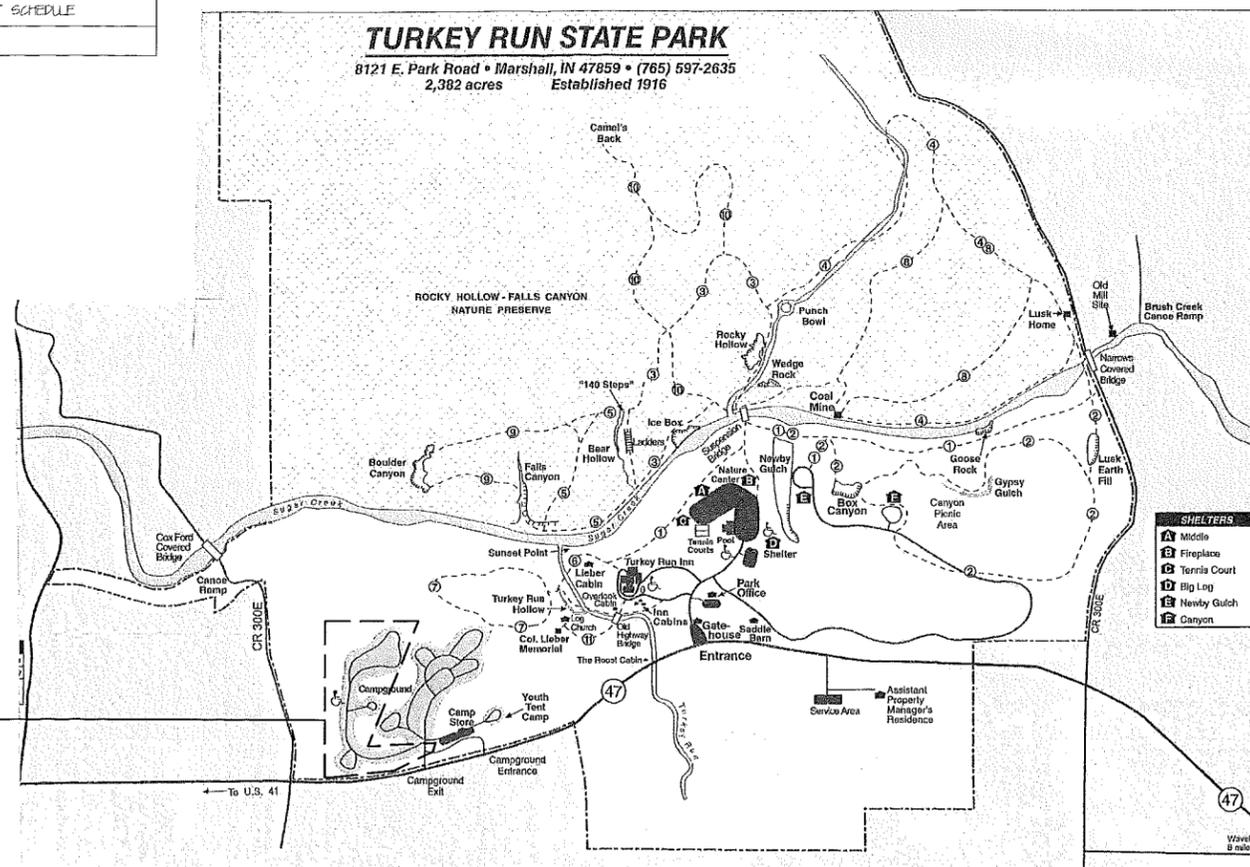
TURKEY RUN STATE PARK

MARSHALL, INDIANA
 PARKE COUNTY, INDIANA
 PROJECT NO. E030280

SHEET INDEX	
SHEET #	DESCRIPTION
T-1	TITLE SHEET
E-1, E-2, E-3	CAMPSITE INSTALLATION PLAN
E-4	INSTALLATION DETAILS
E-5	DISTRIBUTION PANEL, CONDUCTORS, AND CONDUIT SCHEDULE



STATE MAP



CONSTRUCTION AREA

TURKEY RUN STATE PARK
 LOCATION MAP



CAMPGROUND ELECTRICAL RENOVATION
 TURKEY RUN STATE PARK
 DEPT. OF NATURAL RESOURCES
 8121 E. PARK ROAD
 MARSHALL, INDIANA 47859

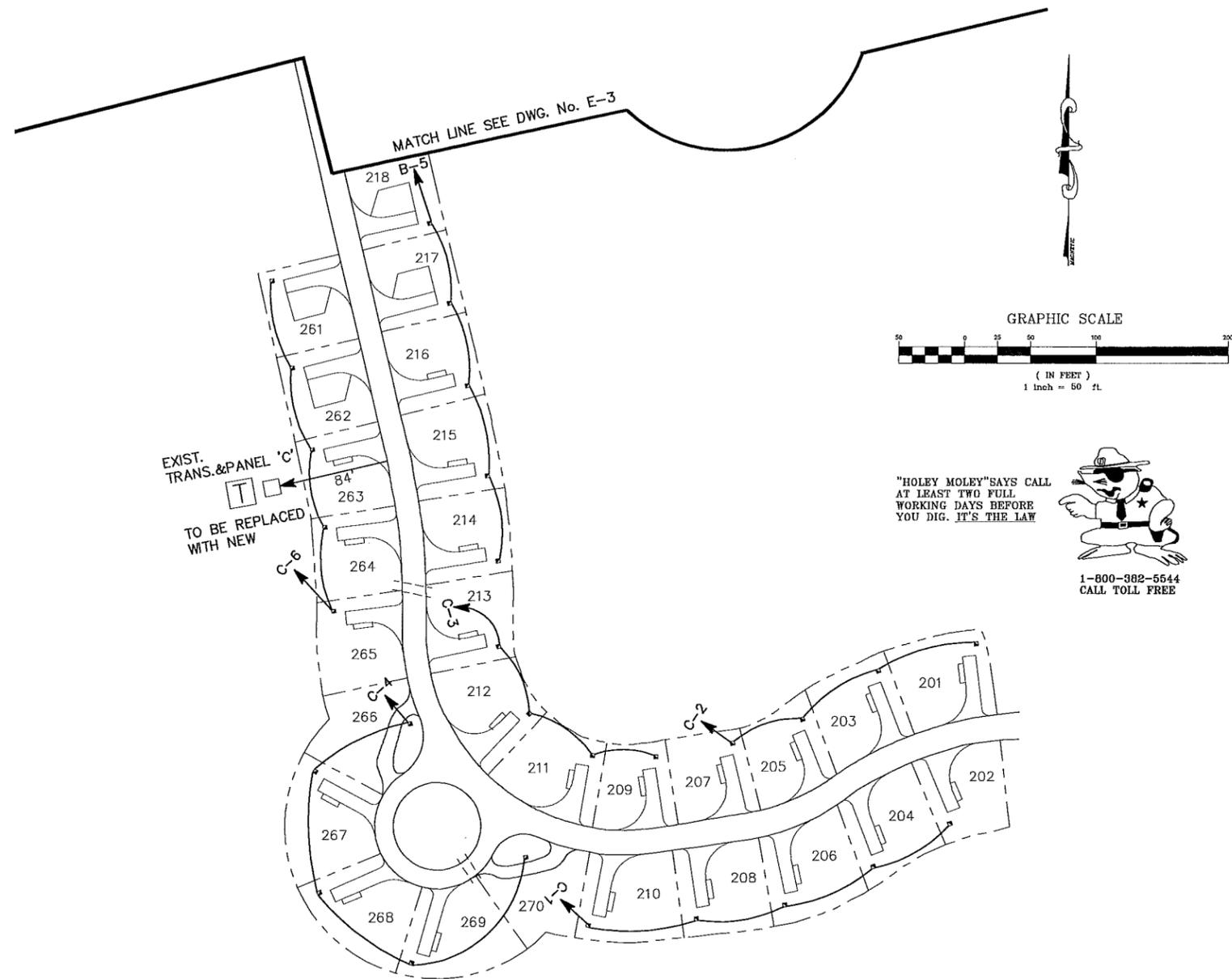


STATE OF INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF ENGINEERING
 400 WEST WASHINGTON STREET, SUITE 1000
 INDIANAPOLIS, INDIANA 46204
 TEL: 317-497-4500 FAX: 317-497-4501

PROJECT NO.	E030280
DATE	08/7/14
SCALE	NO SCALE
SHEET NO.	2-194

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 CONDUCTORS. IF ANY TRENCH IS LEFT OPEN AND UNATTENDED, IT SHALL BE COVERED BY MIN. 3/4" THICK BY MIN. TWO FEET WIDE PLYWOOD SEALED 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 RIGID STEEL OR HV PVC SCHEDULE 80 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, LEVELLED AND SEEDED. ANY SETTLEMENT OF GROUND SHALL BE RELEVELLED AND RE-SEEDED. 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 CONDUCTORS 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 CONDUCTORS PER SCHEDULE.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO WATER LINES, SEWERS, DRAINAGE 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 CUT ACROSS THE PAD, AS DEFINED BY THE OWNER REPRESENTATIVE.



CAMPGROUND INSTALLATION PLAN

SCALE: 1"=50'

GENERAL NOTES:

1. ALL CAMPSITE PADS AND ROADS ARE EXISTING PAVED 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. NOTIFY UTILITY OF INCREASED CAPACITY SERVICE BEING INSTALLED. PROVIDE AND INSTALL ALL NEW ELECTRICAL GEAR AS PRESCRIBED BY THE UTILITY. PARKE COUNTY REMC.



TURKEY RUN S. P. WEST CAMPGROUND
CAMPSITE ELECTRICAL
 DEPT. OF NATURAL RESOURCES
 814 E. PARK ROAD
 MARSHALL, INDIANA 47859

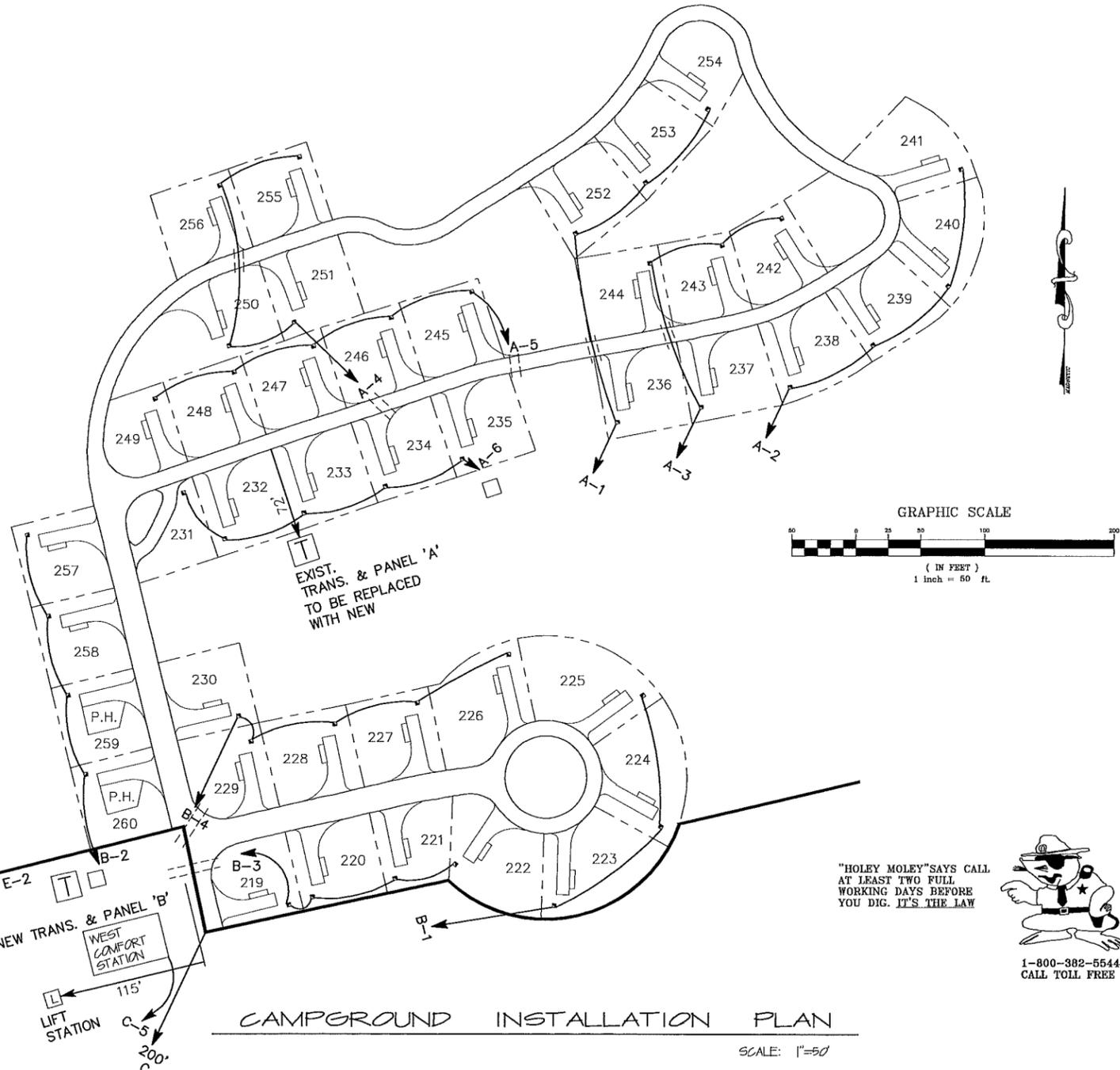


STATE OF INDIANA
 DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENGINEERING
 100 N. VERMONT AVENUE, SUITE 1000
 INDIANAPOLIS, INDIANA 46204
 TEL: 317-498-4528, FAX: 317-498-5208

PROJECT NO.	500080
DATE	8/27/14
BY	AS NOTED
CHECKED	
NO.	2-184
SHEET	E-2

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 CONDUCTORS. 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 RIGID STEEL OR HV PVC SCHEDULE 80 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, LEVELLED AND SEEDED. ANY SETTLEMENT OF GROUND SHALL BE RELEVELLED AND RE-SEEDED. 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 CONDUCTORS 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 FULL NEW CONDUCTORS PER SCHEDULE.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO WATER LINES, SEWERS, DRAIN 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 CUT ACROSS THE PAD, AS DEFINED BY THE OWNER REPRESENTATIVE.



CAMPGROUND INSTALLATION PLAN

SCALE: 1"=50'

GENERAL NOTES:

1. ALL CAMPSITE PADS AND ROADS ARE EXISTING PAVED 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. NOTIFY UTILITY OF INCREASED CAPACITY SERVICE BEING INSTALLED. PROVIDE AND INSTALL ALL NEW ELECTRICAL GEAR AS PRESCRIBED BY THE UTILITY: PARKE COUNTY REMC.

"HOLEY MOLEY" SAYS CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU DIG. IT'S THE LAW



1-800-382-5544
CALL TOLL FREE

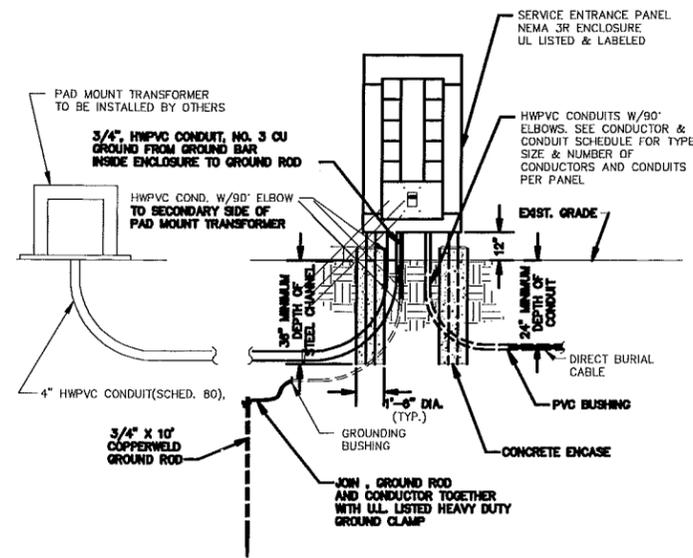


TURKEY RUN S. P. WEST CAMPGROUND
CAMPSITE ELECTRICAL
DEPT. OF NATURAL RESOURCES
824 E. PARK ROAD
MARSHALL, INDIANA 47659



STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENGINEERING
100 N. VERMILION AVENUE, SUITE 1000
MARIETTA, INDIANA 47556
TEL: 477-488-4528, FAX: 477-488-4528

PROJECT NO.	ES00080
DATE	8/27/14
STATUS	AS NOTED
NO.	2-194
SHEET NO.	E-3

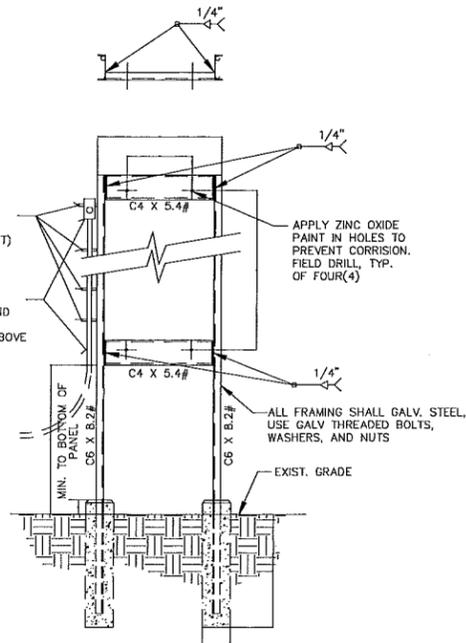


TRANSFORMER & DISTRIBUTION PANEL DETAILS

SCALE: NONE

1 5/8" X 1 5/8" X .105 THICK HOT-DIPPED GALV. STEEL CHANNEL (UNISTRUT) FOUR (4) REQ'D.

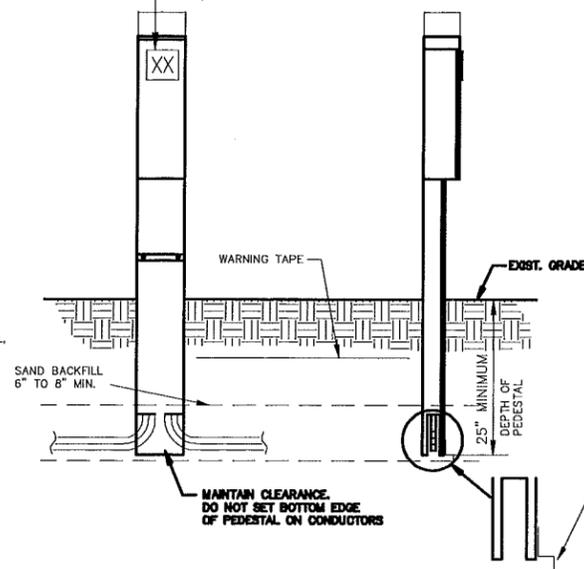
INSTALL UTILITY CURRENT TRANSFORMER, METER, AND CONDUIT ON GALVANIZED STEEL CHANNEL, 5'-0" ABOVE GRADE.



PANEL MOUNTING DETAIL

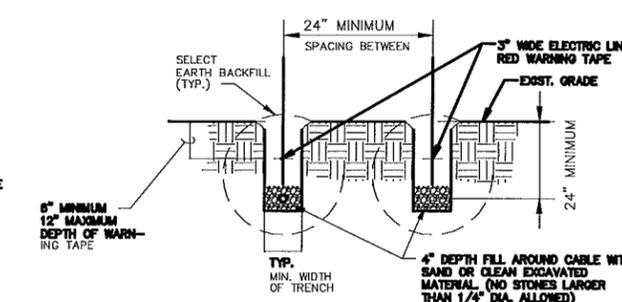
SCALE: NONE

SITE NUMBER - APPLY PHENOLIC CAMPSITE NUMBER PLATE. NUMBER SHALL BE 3" TALL, REFLECTIVE BLACK, ON SILVER BACKGROUND. PROTECT WITH 1/4" THICK LEXAN - 7"WD X 4"HT. CLEAR UV. RESISTANT SHIELD. SECURE TO LID USING DRIVE PINS OR RIVETS AT EACH CORNER. SEAL TOP OF SHIELD USING CLEAR RTV.



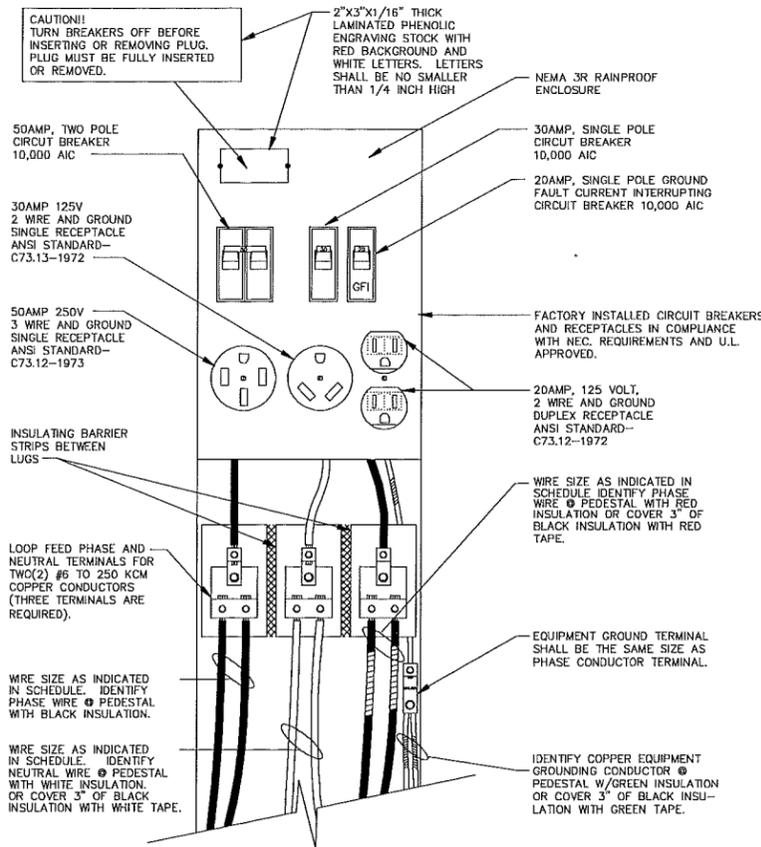
PEDESTAL RISER DETAIL

SCALE: NONE



CONDUCTOR TRENCH DETAIL

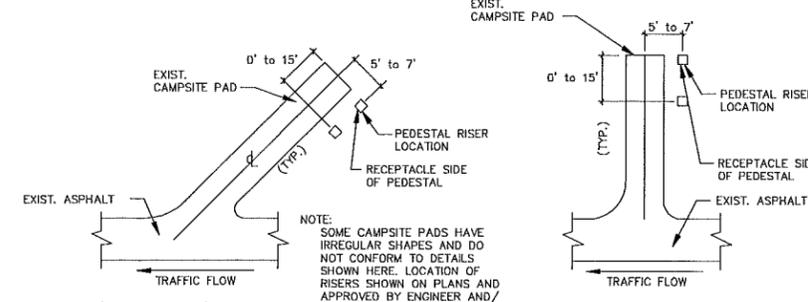
SCALE: NONE



TYPE 2 PEDESTAL RISER WIRING DETAILS

SCALE: NONE

NOTE: SITE #'S SHALL BE INSTALLED ON OUTSIDE COVER OF PEDESTALS - BLACK REFLECTIVE VINYL LETTERING (2") SILVER BACKGROUND.



ELECTRIC PEDESTAL RISER LOCATION DETAILS

SCALE: NONE



CAMPBOND ELECTRICAL RENOVATION
TURKEY RUN STATE PARK
DEPT. OF NATURAL RESOURCES
8121 E. PARK ROAD
MARSHALL, INDIANA 47859



PROJECT NO.	18030980
DATE	03/7/14
SCALE	NO SCALE
REV	
DATE	
BY	
CHECKED	
DATE	
PROJECT	2-194
OF	4



PANELBOARD-"B" SCHEDULE

PANEL # NEW DISTRIBUTION PANEL - "B" LOCATION: TRANSFORMER "B" NEMA 3R RAINPROOF

DESCRIPTION	CR.	POLE/AMPS	LOAD (KW)	WIRING	LOAD (KW)	POLE/AMPS	CR.	DESCRIPTION
B-1	1.	2P-125A	28.8	BLACK	38.4	2P-175A	2.	B-2
	3.			RED			4.	
B-3	7.	2P-175A	38.4	BLACK	48.0	2P-200A	8.	B-4
	9.			RED			10.	
B-5	13.	2P-200A	48.0	BLACK			14.	
	15.			RED			16.	
	17.						18.	
TOTAL LOAD:		115.2	+	88.4	=	201.6		

LOAD BALANCE CHECK: BLACK = 115.2 KW
RED = 86.4 KW

PANELBOARD-"C" SCHEDULE

PANEL # NEW DISTRIBUTION PANEL - "C" LOCATION: TRANSFORMER "C" NEMA 3R RAINPROOF

DESCRIPTION	CR.	POLE/AMPS	LOAD (KW)	WIRING	LOAD (KW)	POLE/AMPS	CR.	DESCRIPTION
C-1	1.	2P-200A	48.0	BLACK	38.4	2P-175A	2.	C-2
	3.			RED			4.	
C-3	7.	2P-175A	38.4	BLACK	48.0	2P-200A	8.	C-4
	9.			RED			10.	
C-5	13.	2P-200A	48.0	BLACK	48.0	2P-200A	14.	C-6
	15.			RED			16.	
	17.						18.	
TOTAL LOAD:		134.4	+	134.4	=	268.8		

LOAD BALANCE CHECK: BLACK = 134.4 KW
RED = 134.4 KW

CONDUCTOR SCHEDULE

CIR.	NO. & TYPE OF CONDUCTOR	RISER	CONDUIT	FROM	TO	SERVICE	VOLTS / COND. AMP RATING
A-1	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.	DIRECT BURIAL	DISTRIBUTION PANEL - "C"	SITES 254,253,252&236	REC. VEHICLE SITE POWER	120/240V 200AMP
A-2	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 241,240,239&238		120/240V 200AMP
A-3	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 242,243,244&237		120/240V 200AMP
A-4	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 255,256,250&251		120/240V 175AMP
A-5	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 249,248,247,246,&245		120/240V 200AMP
A-6	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 231,232,233,234&235		120/240V 200AMP
B-1	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.	DIRECT BURIAL	DISTRIBUTION PANEL - "B"	SITES 223,224,&223	REC. VEHICLE SITE POWER	120/240V 175AMP
B-2	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 257,258,259&260		120/240V 175AMP
B-3	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 222,221,220&219		120/240V 175AMP
B-4	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 226,227,228,229&230		120/240V 200AMP
B-5	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 225,224&223		120/240V 200AMP
C-1	250 KCMIL #6 CU. GROUNDING	2" MIN. DIA.	DIRECT BURIAL	DISTRIBUTION PANEL - "D"	SITES 202,204,206,208&210	REC. VEHICLE SITE POWER	120/240V 250AMP
C-2	4/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 201,203,205&207		120/240V 230AMP
C-3	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 213,212,211&209		120/240V 175AMP
C-4	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 270,269,268,267&266		120/240V 200AMP
C-5	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			COMFORT STATION PANEL		120/240V 200AMP
C-6	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 265,264,263,262&261		120/240V 200AMP
D-1	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.	DIRECT BURIAL	DISTRIBUTION PANEL - "D"	SITES 198,196,194&192	REC. VEHICLE SITE POWER	120/240V 175AMP
D-2	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 184,186,188&190		120/240V 175AMP
D-3	3/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 185,187,189,191&193		120/240V 200AMP
D-4	4/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 200,199,197&195		120/240V 230AMP
D-5	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 174,173,171,&172		120/240V 175AMP
D-6	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 156,157,158&159		120/240V 175AMP
E-1	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.	DIRECT BURIAL	DISTRIBUTION PANEL - "E"	SITES 175,176,177&178	REC. VEHICLE SITE POWER	120/240V 175AMP
E-2	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 182,181,180&179		120/240V 175AMP
E-3	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 168,169,170&183		120/240V 175AMP
E-4	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 163,162,161,&160		120/240V 175AMP
E-5	2/0 CU./PH. & N #6 CU. GROUNDING	2" MIN. DIA.			SITES 164,165,166,&167		120/240V 175AMP
NEW	(2) 1250 KCMIL CU. / PH. & N	(2) 4" MIN. DIA.	(2) 4" PVC	TRANSFORMER "A" 167 KVA	PANEL - "A" 1200 AMP		
NEW	(2) 600 KCMIL CU. / PH. & N	(2) 4" MIN. DIA.	(2) 4" PVC	TRANSFORMER "B" 75 KVA	PANEL - "B" 800 AMP		
NEW	(2) 1250 KCMIL CU. / PH. & N	(2) 4" MIN. DIA.	(2) 4" PVC	TRANSFORMER "C" 167 KVA	PANEL - "C" 1200 AMP		
NEW	(2) 1250 KCMIL CU. / PH. & N	(2) 4" MIN. DIA.	(2) 4" PVC	TRANSFORMER "D" 167 KVA	PANEL - "D" 1200 AMP		
NEW	(2) 600 KCMIL CU. / PH. & N	(2) 4" MIN. DIA.	(2) 4" PVC	TRANSFORMER "E" 100 KVA	PANEL - "E" 600 AMP		

PANELBOARD-"D" SCHEDULE

PANEL # NEW DISTRIBUTION PANEL - "D" LOCATION: TRANSFORMER "D" NEMA 3R RAINPROOF

DESCRIPTION	CR.	POLE/AMPS	LOAD (KW)	WIRING	LOAD (KW)	POLE/AMPS	CR.	DESCRIPTION
D-1	1.	2P-175A	38.4	BLACK	38.4	2P-175A	2.	D-2
	3.			RED			4.	
D-3	7.	2P-200A	48.0	BLACK	38.4	2P-175A	8.	D-4
	9.			RED			10.	
D-5	13.	2P-175A	38.4	BLACK	38.4	2P-175A	14.	D-6
	15.			RED			16.	
	17.						18.	
TOTAL LOAD:		124.8	+	115.2	=	240.0		

LOAD BALANCE CHECK: BLACK = 124.8 KW
RED = 115.2 KW

GENERAL NOTES

- CONTRACTOR SHALL INSTALL TYPE 2 50AMP 120/240V PEDESTAL (COPPER INTERIOR) WITH GFCI 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:

- (P) - 1/0, TYPE USE WIRE, (P&N): UL LISTED, ANNEALED CU, WITH VULCANIZED INTERLOCKED POLYETHYLENE INSULATION (600V): DIRECT BURIAL
- (I) - 1/0, GRAND WIRE: BARE OR INSULATED (GREEN) CU, SOFT DRAWN, STANDARD PER ASTM CLASS "B" OR "C", DIRECT BURIAL

PANELBOARD-"E" SCHEDULE

PANEL # NEW DISTRIBUTION PANEL - "E" LOCATION: TRANSFORMER "E" NEMA 3R RAINPROOF

DESCRIPTION	CR.	POLE/AMPS	LOAD (KW)	WIRING	LOAD (KW)	POLE/AMPS	CR.	DESCRIPTION
E-1	1.	2P-175A	38.4	BLACK	38.4	2P-175A	2.	E-2
	3.			RED			4.	
E-3	7.	2P-175A	38.4	BLACK	38.4	2P-175A	8.	E-4
	9.			RED			10.	
E-5	13.	2P-175A	38.4	BLACK	76.8		14.	
	15.			RED			16.	
	17.						18.	
TOTAL LOAD:		115.2	+	76.8	=	192.0		

LOAD BALANCE CHECK: BLACK = 76.8 KW
RED = 115.2 KW

PANELBOARD-"A" SCHEDULE

PANEL # NEW DISTRIBUTION PANEL - "A" LOCATION: TRANSFORMER "A" NEMA 3R RAINPROOF

DESCRIPTION	CR.	POLE/AMPS	LOAD (KW)	WIRING	LOAD (KW)	POLE/AMPS	CR.	DESCRIPTION
A-1	1.	2P-175A	38.4	BLACK	38.4	2P-175A	2.	A-2
	3.			RED			4.	
A-3	7.	2P-175A	38.4	BLACK	38.4	2P-175A	8.	A-4
	9.			RED			10.	
A-5	13.	2P-200A	48.0	BLACK	48.0	2P-200A	14.	A-6
	15.			RED			16.	
	17.						18.	
TOTAL LOAD:		124.8	+	124.8	=	249.6		

LOAD BALANCE CHECK: BLACK = 124.8 KW
RED = 124.8 KW

CAMPBOND ELECTRICAL RENOVATION
TURKEY RUN STATE PARK
DEPT. OF NATURAL RESOURCES
814 E PARK ROAD
MARSHALL, INDIANA 47859



2-194
E-5