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DATE: Feb 20, 2026 9:28am XREFS: 24 x 26 DNR Sheet Layout X-2204-01-4306-53282-C-SP-1.01 142146_x.tpo USER: rreynolds



GENERAL NOTES:

- TO FEDERAL, STATE, AND LOCAL STATUTES, NOTIFY MISSOURI ONE-CALL SYSTEM, INC. AT LEAST 48 HOURS PRIOR TO ANY DIGGING, TRENCHING, EXCAVATION, ETC.
- INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF SAME AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
- PROVIDE EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT EACH BRANCH CIRCUIT. CONDUCTOR MAY NOT BE INDICATED GRAPHICALLY.
- IF WIRING DEVIATES SIGNIFICANTLY FROM THE LAYOUT ON THE PLANS, ACCOUNT FOR MORE VOLTAGE DROP BY INCREASING ALL THE CONDUCTOR SIZES BY A FACTOR OF ONE SIZE.
- REFER TO CONDUIT APPLICATION AND SPECIFICATIONS FOR ALL CONDUIT REQUIREMENTS.
- COORDINATE ALL NEW PRIMARY SERVICE WORK, OUTAGES, PAD REQUIREMENTS, ETC. WITH UTILITY COMPANY FOR EXACT INSTALLATION REQUIREMENTS.

BRANCH CIRCUIT FEEDER SCHEDULE

- (3)-#3/0 AND (1)-#6 GROUND IN EXISTING 2" CONDUIT.
- (3)-#3 AND (1)-#8 GROUND IN EXISTING 1.5" CONDUIT.
- (3)-#3/0 AND (1)-#6 GROUND IN EXISTING 2.5" CONDUIT.

PLAN NOTES:

- EXISTING UTILITY PAD MOUNTED TRANSFORMER. VERIFY IF EXISTING SECONDARY DUCTBANK CAN BE REUSED FOR NEW CONSTRUCTION. PROVIDE NEW CONDUIT AND CONDUCTORS AS REQUIRED, REFER TO ONE-LINE DIAGRAM.
- EXISTING DISTRIBUTION BOARD TO BE FIELD VERIFIED IF IN WORKING CONDITION OR WAS DAMAGED. PROVIDE NEW AS NEEDED AND MOUNT 800A, 277/480V, 3ø, 4W. SERVICE ENTRANCE RATED DISTRIBUTION PANELBOARD ON UNISTRUT. RE: ONE-LINE DIAGRAM AND PANELBOARD SCHEDULE FOR INSTALLATION DETAILS AND TYPE.
- PROVIDE PAD MOUNTED POWER DISTRIBUTION UNIT (PDU) WITH INTEGRAL SWITCHBOARD AND TRANSFORMER PER SCHEDULES. RE: DETAIL 6/E-400 FOR INSTALLATION DETAILS STRUCTURAL FRAME FOR EQUIPMENT IS EXISTING TO REMAIN. PROVIDE ADDITIONAL STRUCTURAL FRAME SUPPORT TO EXTEND PLATFORM TO PROVIDE 36" WORKING CLEARANCE IN FRONT OF GEAR. PROVIDE #3/0 GROUNDING TO STRUCTURAL FRAMING.
- PROVIDE PAD MOUNTED ELECTRICAL POWER PEDESTAL. RE: DETAIL 1/E-400 FOR INSTALLATION DETAILS. ALL RV PEDESTAL LOOP CIRCUITS SHALL BE CONNECTED TO FEED THRU LUGS WITH MATCHING BUS RATINGS (200A) (TYP. ALL CAMP SITES).
- REUSE EXISTING CONDUIT AND ROUTE FEEDER BELOW GRADE TO PAD MOUNTED SUBSTATION POWER DISTRIBUTION UNIT. RE: ONE-LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES.
- CONDUIT TO BE REPLACED AT LOCATION SHOWN.
- RV PEDESTAL AND CONDUIT TO PEDESTAL IS EXISTING. PROVIDE NEW WIRING TO PEDESTAL.
- PROVIDE NEW RV PEDESTAL. REFER TO DETAIL 1, SHEET E-400.
- EXISTING SHOWERHOUSE. PROVIDE WIRING TO SHOWERHOUSE DISCONNECTING MEANS.



- NOTE:
- CONTRACTOR SHALL CONTACT INTERCOUNTY ELECTRIC COOP AT 866-621-3679 TO ARRANGE FOR ELECTRIC SERVICE AS INDICATED ON DRAWINGS. CONTRACTOR SHALL COORDINATE ALL SERVICE WORK, OUTAGES, CUTOVER, ETC WITH UTILITY COMPANY.



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SITE POWER PLAN

SCALE: 1" = 40'-0"

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Rebid Campground Loop 5

CONSTRUCTION
DOCUMENTS

Montauk State Park

345 County Road 6670

Salem, Missouri

PROJECT # X-2204-04

SITE # 5307

FACILITY #

7815307048

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ISSUE DATE: 02/24/2026

CAD FILE: X2204-04-5307-7815307048

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SHEET TITLE:

ELECTRICAL

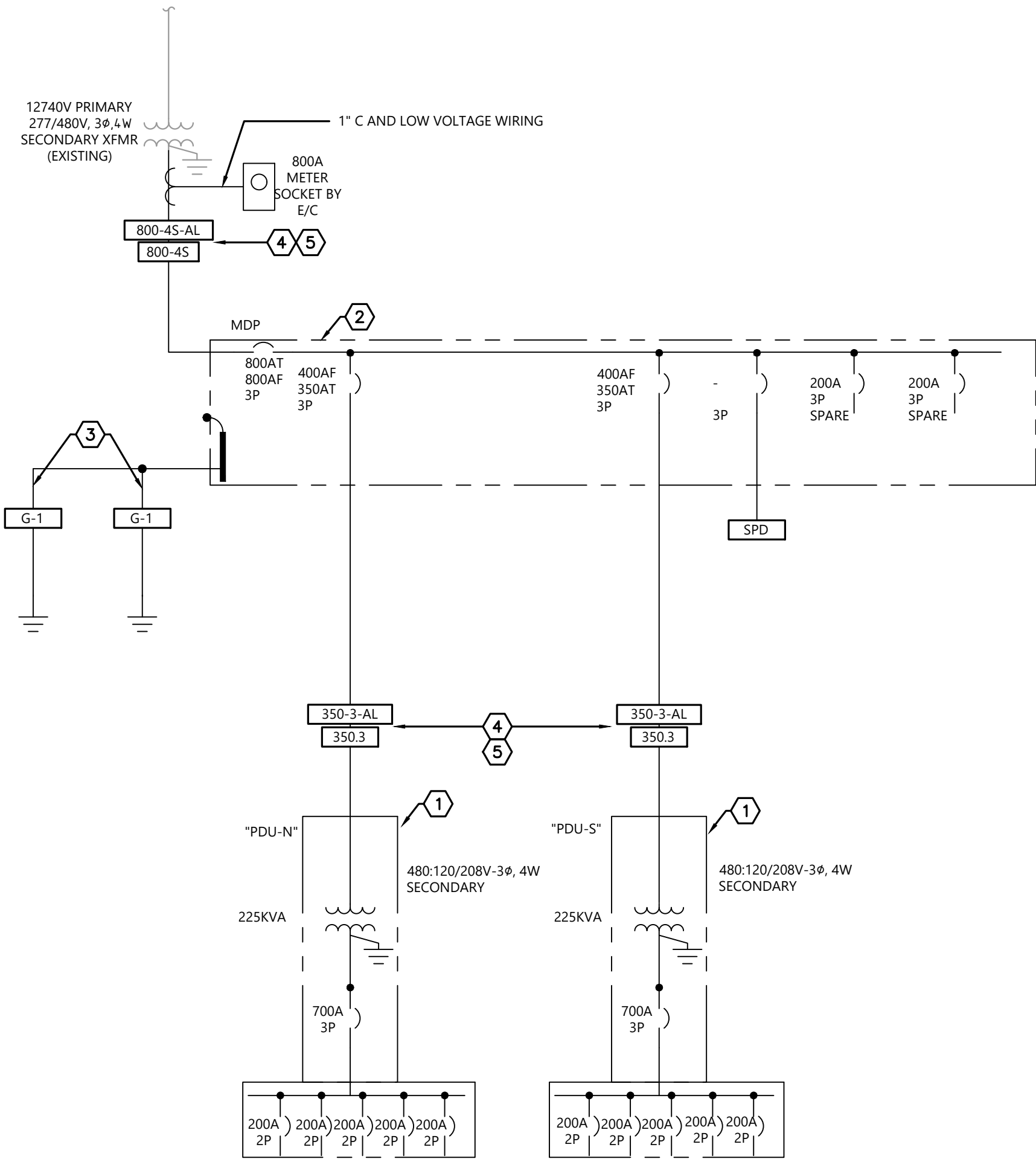
SITE PLAN

SHEET NUMBER:

E-100

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02/24/2026



1 ELECTRICAL ONE-LINE DIAGRAM

SCALE: NTS

ONE-LINE DIAGRAM NOTES:

- 1 PROVIDE A PAD MOUNTED POWER DISTRIBUTION UNIT WITH INTEGRAL TRANSFORMER ON CONCRETE PAD.
- 2 MOUNT SERVICE ENTRANCE RATED DISTRIBUTION PANELBOARD TO UNISTRUT. DISTRIBUTION PANELBOARD SHALL BE IN A NEMA 3R ENCLOSURE WITH SUN/RAIN SHIELD AND HINGED WEATHER PROOF DOOR.
- 3 PROVIDE (2) 5/8" x 10'-0" DRIVEN GROUND RODS. RE: GROUNDING DETAIL 4/E-400 FOR ADDITIONAL INFORMATION.
- 4 CONDUCTOR MATERIAL SHALL BE ALUMINUM OR COPPER AS INDICATED
- 5 CONDUIT WAS PREVIOUSLY INSTALLED. FIELD VERIFY IF IN WORKING CONDITION. REPLACE IF EXISTING CONDUIT IS DAMAGED.

ONE-LINE DIAGRAM FEEDER SCHEDULE:

TAG ID	OCPD	FEEDER						
		SETS	PHASE	NEUTRAL	GROUND	CONDUIT	MATERIAL	REMARKS
800-4S	800A	3	3 - 300MCM	1 - 300MCM	-	3"	COPPER	-
350-3	350A	1	3 - 500MCM	-	1 - #3	3"	COPPER	-
800-4S-AL	800A	3	3 - 500MCM	1 - 500MCM	-	2.5"	ALUMINUM	-
350-3-AL	350A	1	3 - 750MCM	-	1 - #1	3"	ALUMINUM	-
G-1	N/A	-	-	-	1 - #3/0	1"	COPPER	-

ONE-LINE DIAGRAM FEEDER GENERAL NOTES

- 1. CONDUCTOR SIZING BELOW 100A IS SIZED PER 60°C TEMPERATURE RATING. ALL CONDUCTORS 100A AND HIGHER ARE SIZED PER 75°C TEMPERATURE RATING.
- 2. CONDUIT INSTALLED BELOW SLAB SHALL BE RIGID STEEL, IMC, PVC OR HDPE, MINIMUM 3/4". IF PVC OR HDPE IS USED, TRANSITION TO RIGID STEEL BEFORE TURNING UP AND PENETRATING FLOOR SLAB.
- 3. ALL CONDUCTORS SHALL HAVE AN INSULATION RATING OF 90°C.
- 4. REFERENCE CONDUIT APPLICATION SCHEDULE FOR CONDUIT MATERIALS AT DIFFERENT LOCATIONS.
- 5. ALL WIRING SHALL BE XHHW, UNLESS OTHERWISE NOTED.

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FACILITY #
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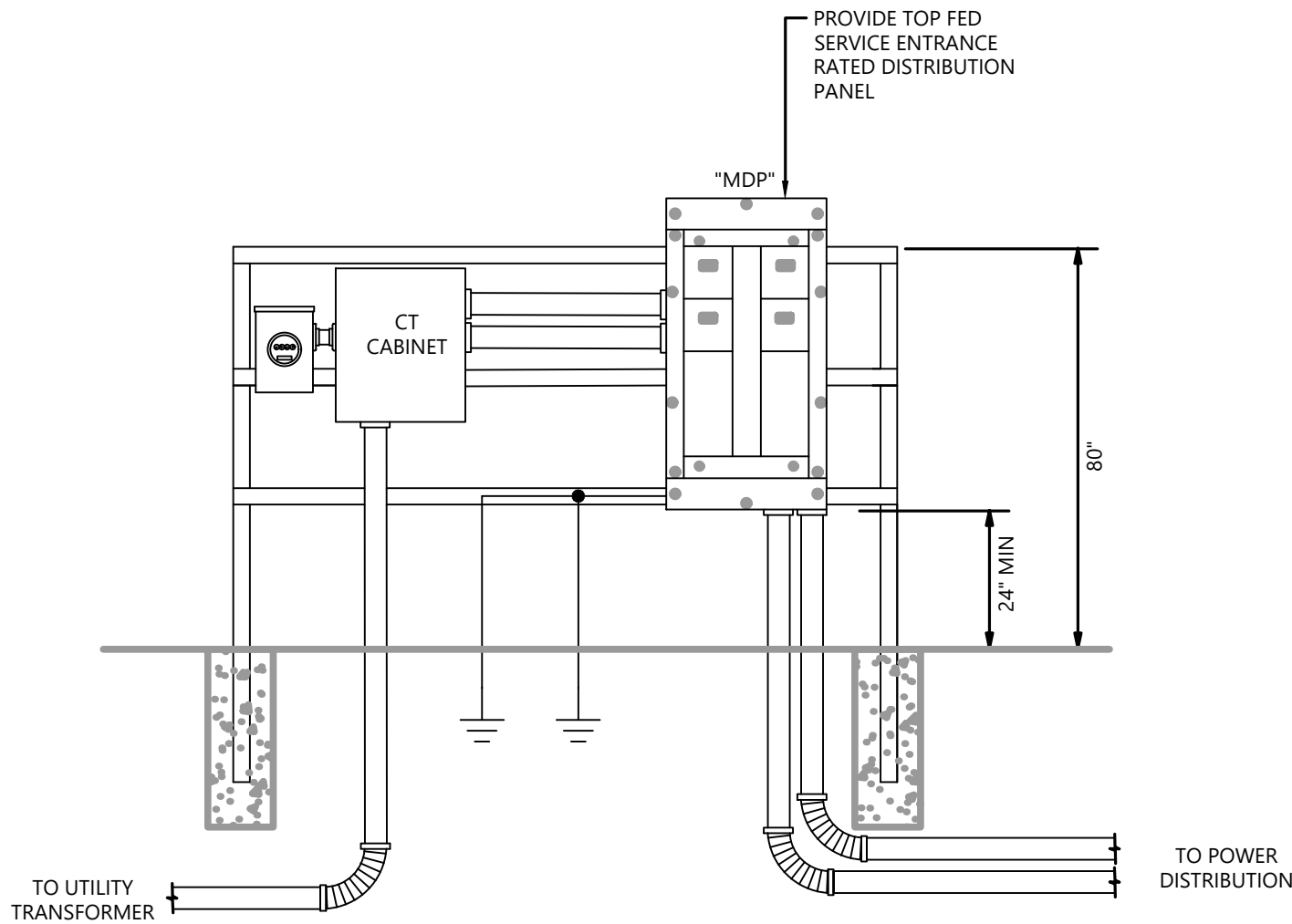
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ONE-LINE
DIAGRAM

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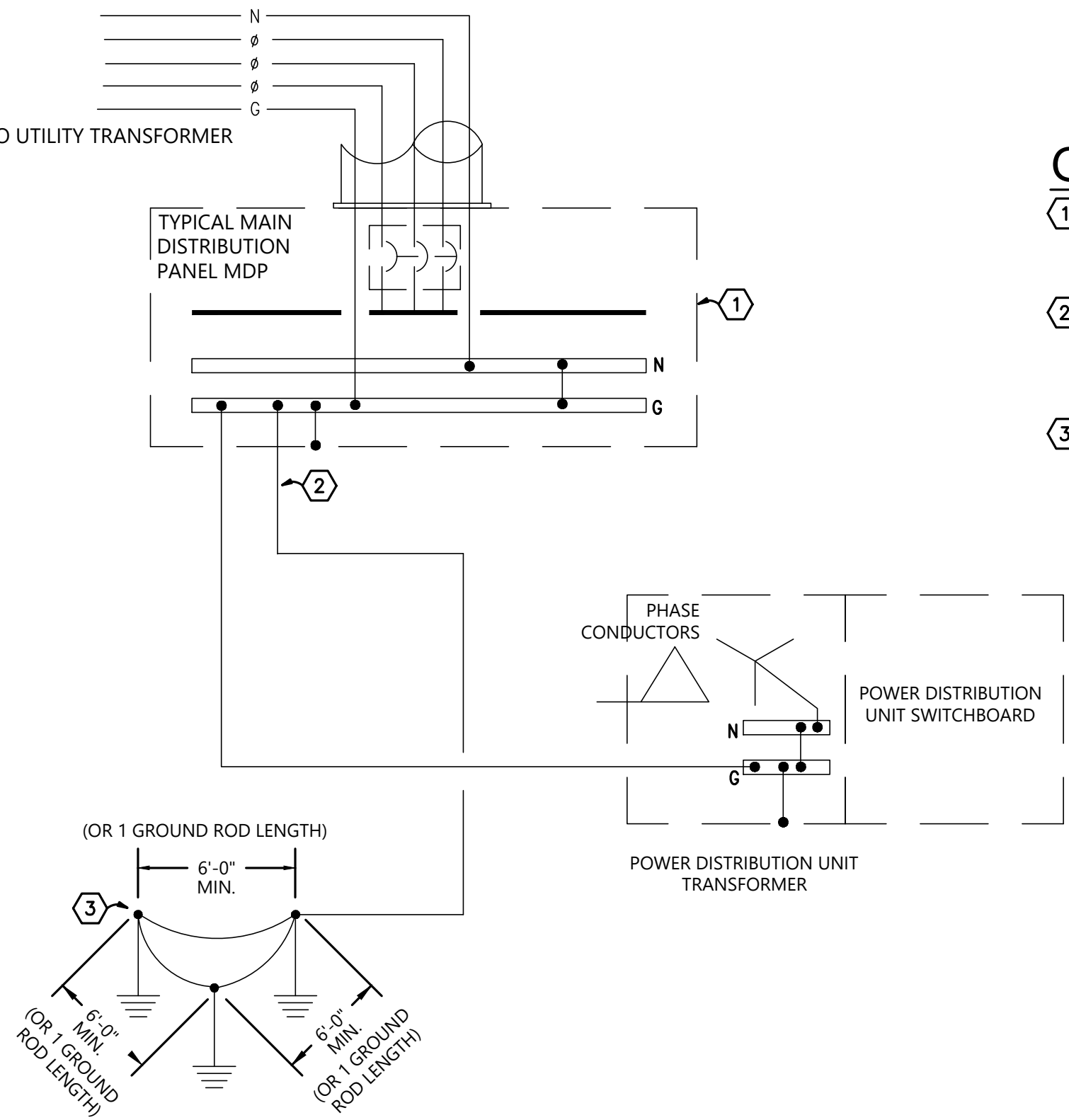
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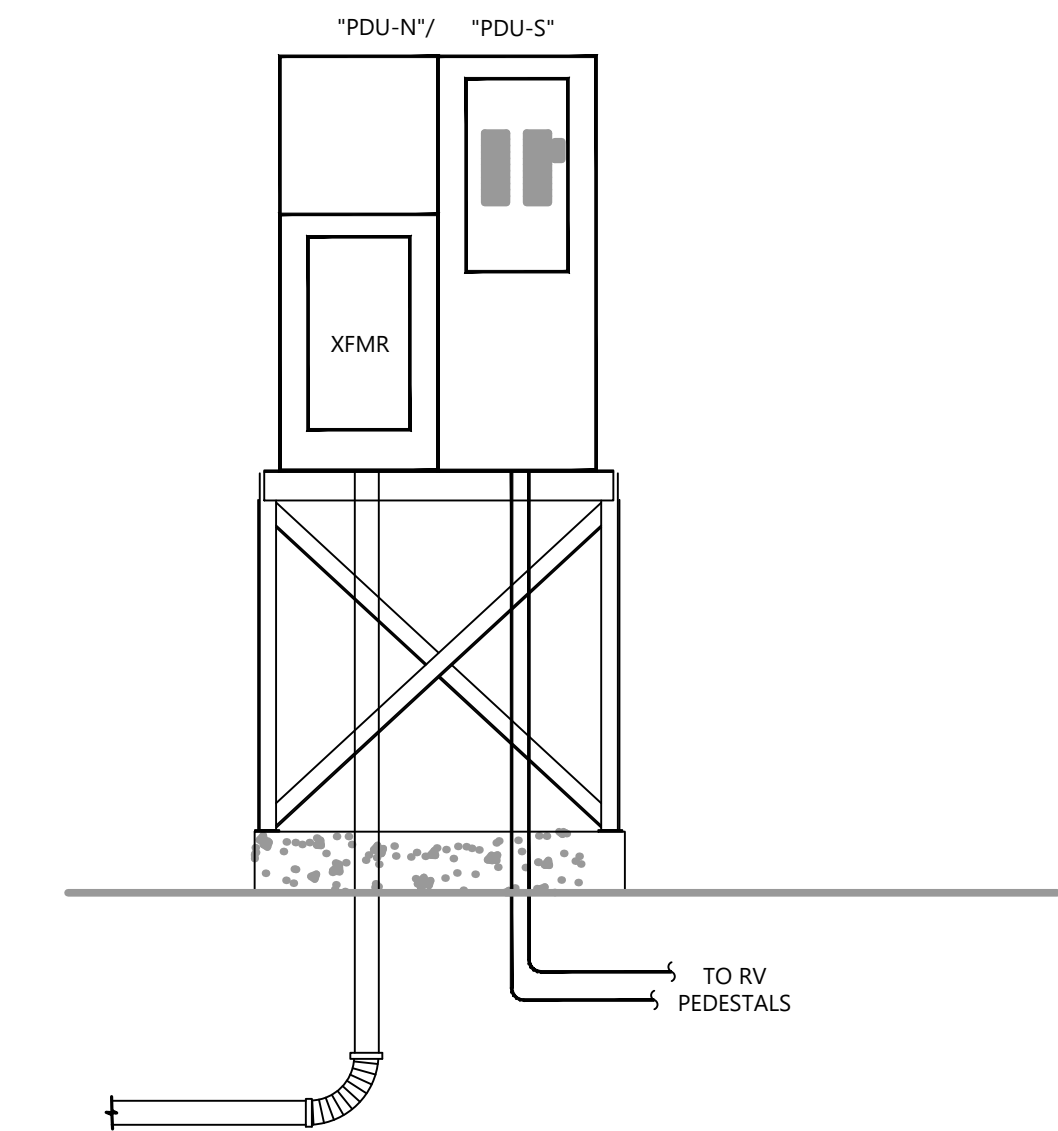
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USER: rreynolds



5 SERVICE ENTRANCE/MDP DETAIL
SCALE: NTS



4 TYPICAL ELECTRICAL SYSTEM GROUNDING & BONDING DETAIL
SCALE: NTS

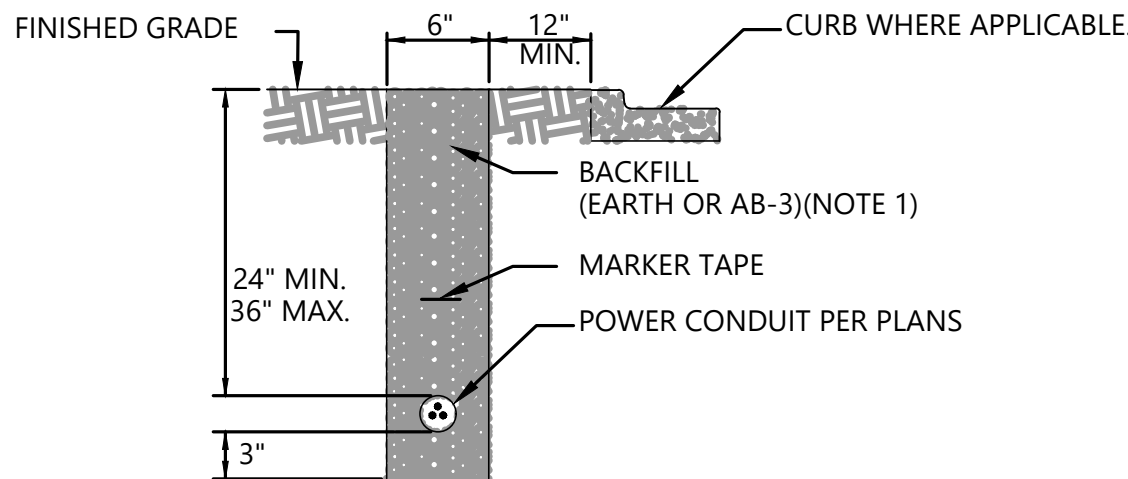


NOTES:
1. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

3 PDU INSTALLATION DETAIL
SCALE: NTS

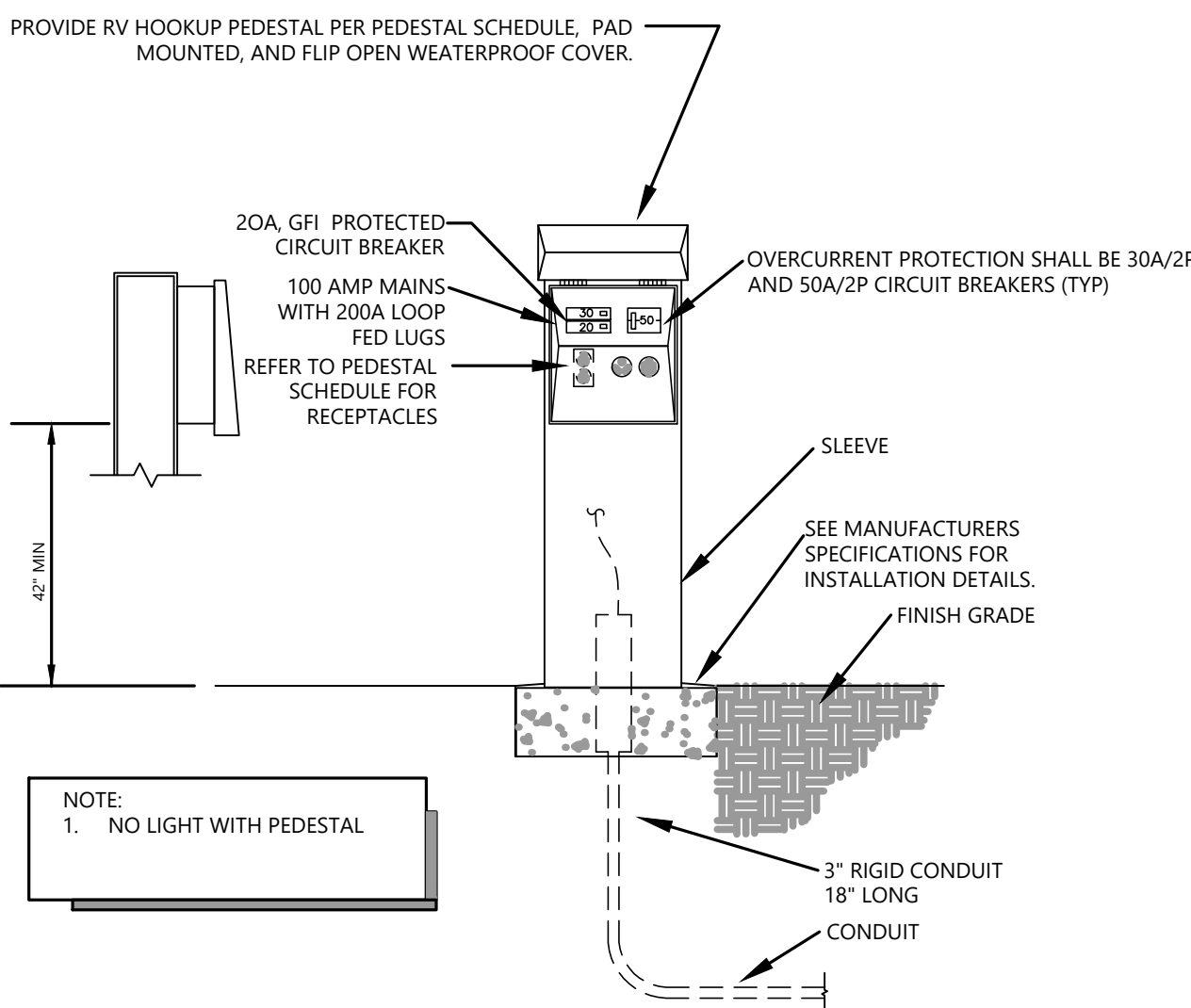
GROUNDING NOTES

1. TYPICAL OF ONE DISTRIBUTION PANELBOARD MOUNTED ON UNISTRUT. PROVIDE GROUNDING AT ENTRANCE PER DETAIL.
2. INSTALL GROUNDING ELECTRODE CONDUCTOR SIZED PER NEC 250.66. GROUNDING ELECTRODE CONDUCTOR SIZE FOR UTILITY SERVICE IS 3/0.
3. INSTALL 10' 5/8" COPPER CLAD GROUNDING RODS SPACED A MINIMUM OF 6'-0" APART. CONNECT GROUNDING RODS WITH A EQUIPMENT BONDING JUMPER SIZED THE SAME AS THE GROUNDING ELECTRODE CONDUCTOR. REFERENCE NEC FOR GROUND ROD AND BONDING JUMPER INSTALLATION REQUIREMENTS.



- NOTE: 1. BACKFILL IN UNPAVED AREAS SHALL BE FREE OF RUBBLE AND ROCK.
2. ALL TRENCHES FOR CONDUIT UNDER PAVED SURFACES SHALL BE BACKFILLED WITH GRAVEL.

2 TRENCHING DETAIL
SCALE: NTS



1 RV HOOK UP ELECTRICAL PEDESTAL DETAIL
SCALE: NTS

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ELECTRICAL
DETAILS

SHEET NUMBER:

E-400

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CONDUIT APPLICATION SCHEDULE			
APPLICATION	MATERIAL	FITTING TYPE (IF APPLICABLE)	NOTES
SERVICE ENTRANCE CONDUIT ABOVE GRADE ONLY	RIGID STEEL	-	-
FEEDERS ABOVE GRADE	RIGID STEEL	-	-
SERVICE ENTRANCE CONDUIT BELOW GRADE	PVC	-	2
FEEDERS AND BRANCH CIRCUITS BELOW GRADE	PVC	-	1
1. TRANSITION TO RIGID STEEL SHALL BE MADE PRIOR TO COMING UP FROM BELOW GRADE 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN UTILITY COMPANY REQUIREMENTS FOR PRIMARY SERVICE AND ENCASING IN CONCRETE IF REQUIRED. 3. WHERE CEILINGS EXIST, WIRING CAN BE OPEN, PLENUM-RATED WIRING. IN AREAS WITHOUT A CEILING, EMT CONDUIT IS REQUIRED.			

RV POWER PEDESTAL SCHEDULE (RV1-31)									
MARK	MANUFACTURER	MOUNTING	RECEPTACLES	ELECTRICAL REQUIREMENTS					ACCESSORIES
				CIRCUIT BREAKERS	VOLTAGE	AMPS BUS	AMPS FEED THRU LOOP	NOTES:	
"RV-"	MIDWEST ELECTRIC PRODUCTS	PAD MOUNTED	BR32U, BR54U, 5-20R2	CB250, CB130, GF1120	120/208V 1-PHASE	100	200	1., 2., 3.	WS
*EQUAL BY APPROVAL ONLY, OR ALTERNATE DESIGN METHOD.									
ABBREVIATIONS				*NOTES:					
WS - WATER SHWROUD				1. EQUAL TO EATON NEW PORT CAMP MATE #CRNBU421120M					
GFI - GROUND FAULT INTERRUPTER				2. FEED THRU 200A LUGS					
PC - PHOTOCCELL				3. PROVIDE GFI BREAKER AND NOT A GFI 20A DUPLEX RECEPTACLE					
LT - 7 WATT LIGHT									

PANEL SCHEDULE																
PANEL DESIGNATION:			SERVICE:		PANEL SIZE:			PANEL OPTIONS: GND BUS				MOUNTING: Surface		NEMA TYPE: 3R		
DPU-N			120/208V-3PH-4W FED FROM: MDP		MAIN BUS: 800 AMPS W / 700 AMP MAIN CKT BREAKER							LOCATION: CAMPGROUND SITE				
REV NO.	NOTE NO.	CIRC NO.	LOAD DESCRIPTION	CIRC BRKR	POLES	LOAD (VA)	PHASE LOADS (VA)			LOAD (VA)	POLES	CIRC BRKR	LOAD DESCRIPTION	CIRC NO.	NOTE NO.	REV NO.
		1	RV 21,22,24,26	200	2	19200	38400	A	B	C			RV-1,31,30,29	2		
		3	-	-		19200			38400			19200	-	4		
		5	RV 23,25,27,28	200	2	19200				33600		2	200	RV 4,2,3	6	
		7	-	-		19200	33600						14400	-	8	
		9	SPD	30	3				8000			2	100	SHOWER HOUSE	10	
		11	-	-						8000			8000	-	12	
		13	-				0					2	200	SPARE	14	
		15							0				-	-	16	
		17								0					18	
		19					0								20	
		21							0						22	
		23								0					24	
		25					0								26	
		27								0					28	
		29									0				30	
		31					0								32	
		33								0					34	
		35									0				36	
		37					0								38	
		39													40	
		41								0					42	
TOTAL CONNECTED PER PHASE (VA):							72000	46400	41600	NOTES:						
PHASE AMPERAGE (A):							600	387	347							
PANEL CONNECTED LOAD (VA):							160000.00									
DIVERSIFIED CONNECTED LOAD:							85120.00									
SPARE CAPACITY:							25%									
MINIMUM PANEL/FEEDER SIZE(AMPS):							296									

PANEL SCHEDULE																
PANEL DESIGNATION:			SERVICE:		PANEL SIZE:			PANEL OPTIONS: GND BUS				MOUNTING: Surface		NEMA TYPE: 3R		
DPU-S			120/208V-3PH-4W FED FROM: MDP		MAIN BUS: 800 AMPS W / 700 AMP MAIN CKT BREAKER							LOCATION: CAMPGROUND SITE				
REV NO.	NOTE NO.	CIRC NO.	LOAD DESCRIPTION	CIRC BRKR	POLES	LOAD (VA)	PHASE LOADS (VA)			LOAD (VA)	POLES	CIRC BRKR	LOAD DESCRIPTION	CIRC NO.	NOTE NO.	REV NO.
		1	RV13,15,17,19	200	2	19200	38400	A	B	C	19200	2	200	RV12,10,8,6	2	
		3	-	-		19200			38400		19200	-	-	-	4	
		5	RV 14,16,18,20	200	2	19200			38400		19200	2	200	RV 11,9,7, 5	6	
		7	-	-		19200	38400				19200	-	-	-	8	
		9	SPD	30	3			0				2	100	SPARE	10	
		11	-	-					0			-	-	-	12	
		13	-				0								14	
		15						0							16	
		17							0						18	
		19					0								20	
		21						0							22	
		23							0						24	
		25					0								26	
		27							0						28	
		29								0					30	
		31					0								32	
		33						0							34	
		35								0					36	
		37					0								38	
		39													40	
		41						0		0					42	
TOTAL CONNECTED PER PHASE (VA):							76800	38400	38400	NOTES:						
PHASE AMPERAGE (A):							640	320	320							
PANEL CONNECTED LOAD (VA):							153600.00									
DIVERSIFIED CONNECTED LOAD:							72192.00									
SPARE CAPACITY:							25%									
MINIMUM PANEL/FEEDER SIZE(AMPS):							251									

POWER DISTRIBUTION UNIT														
MARK	MANUFACTURER	LOCATION	TRANSFORMER				DISTRIBUTION UNIT							ACCESSORIES
			KVA	VOLT/PH		°C RISE	VOLTAGE	AMPS BUS	BREAKERS # POLES	AIC	MATERIAL	MCB AMPS	ENCLOSURE	
				INPUT	OUT									
"PDU-N"	EATON	PEDESTAL MOUNT	225	480/3ø	208/120 3ø	150 UL INSUL	120/208V 3-PHASE	800	SEE DIST. PANEL	-	CU	800	NEMA 3R	PW,CB,SM,VE,HD,G
"PDU-S"	EATON	PEDESTAL MOUNT	225	480/3ø	208/120 3ø	150 UL INSUL	120/208V 3-PHASE	800	SEE DIST. PANEL	-	CU	800	NEMA 3R	PW,CB,SM,VE,HD,G
*EQUAL BY APPROVAL ONLY, OR ALTERNATE DESIGN METHOD.														
ACCESSORIES: CB - BOLT ON BREAKERS SM - SURFACE MOUNT TO CONCRETE EMBEDDED STEEL TUBES AND UNISTRUT VE - VENTED ENCLOSURE HD - HINGED ACCESS DOORS G - FULL SIZED GROUND AND NEUTRAL BUS PW - FACTORY WIRED SECONDARY TO PANEL														

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