NORTH DAKOTA PARKS AND RECREATION DEPARTMENT

ELECTRICAL UPGRADES LAKE METIGOSHE STATE PARK 2023



	INDEX OF SHEETS						
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LM-UC-101	UTILITY COORDINATION SITE PLAN - NORTH WASHEGUM CAMPGROUND						
LM-UC-102	UTILITY COORDINATION SITE PLAN - SOUTH WASHEGUM CAMPGROUND						
LM-E-101	ELECTRICAL DEMOLITION SITE PLAN - NORTH WASHEGUM CAMPGROUND						
LM-E-102	ELECTRICAL DEMOLITION SITE PLAN - SOUTH WASHEGUM CAMPGROUND						
LM-E-103	ELECTRICAL IMPROVE SITE PLAN - NORTH WASHEGUM CAMPGROUND						
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LM-E-602	ELECTRICAL RISER DIAGRAMS						

PROJECT CONTACTS

CLIENT

NORTH DAKOTA PARKS AND RECREATION DEPARTMENT Brendan Ternes 604 E. BOULEVARD AVE, DEPT. 750 BISMARCK, ND 58505 701-328-5355

LAKE METIGOSHE STATE PARK Eric Lang 2514 2ND ST. E. BOTTINEAU, ND 58318 701-263-4651

PROJECT ENGINEERS

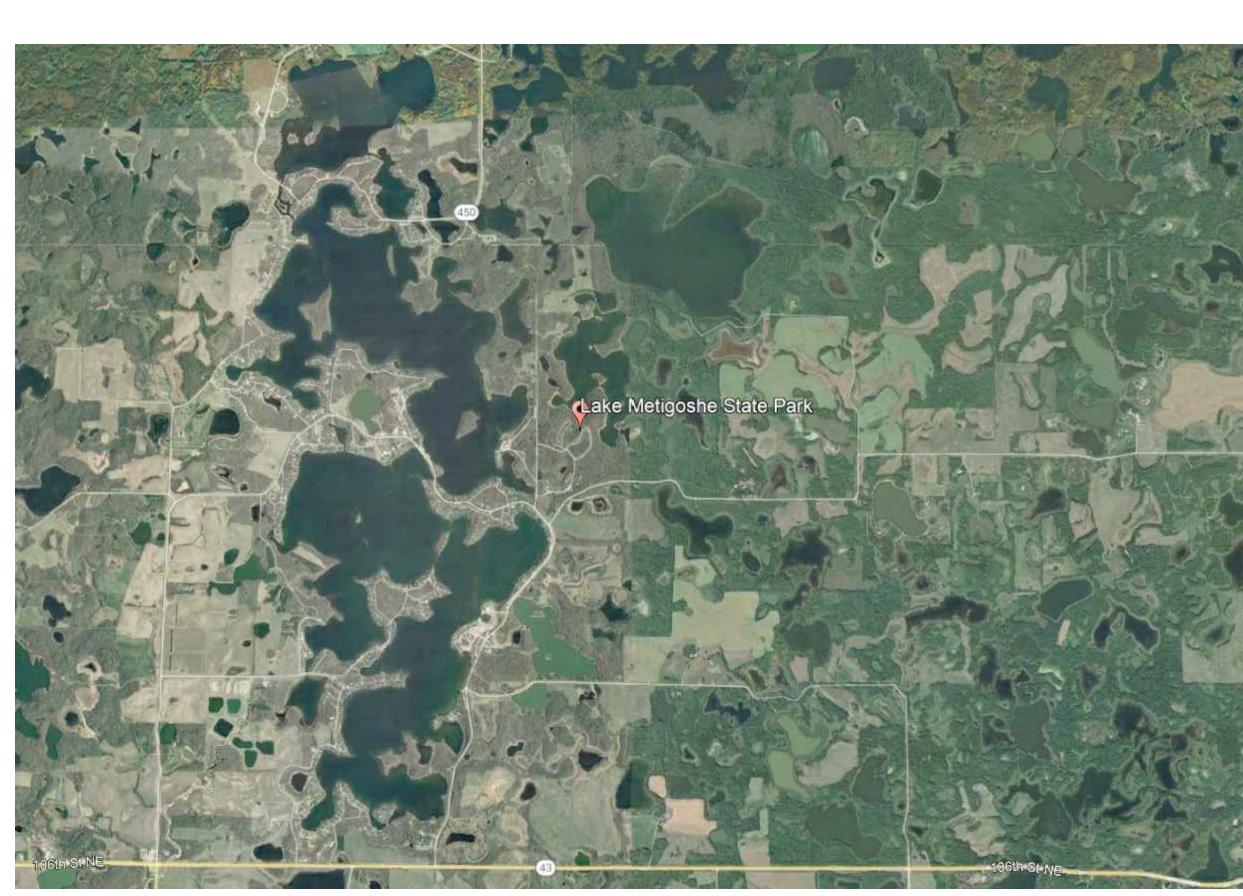
BARTLETT & WEST Mike Van Duyne 3456 E. CENTURY AVE. BISMARCK, ND 58503 701-221-8362

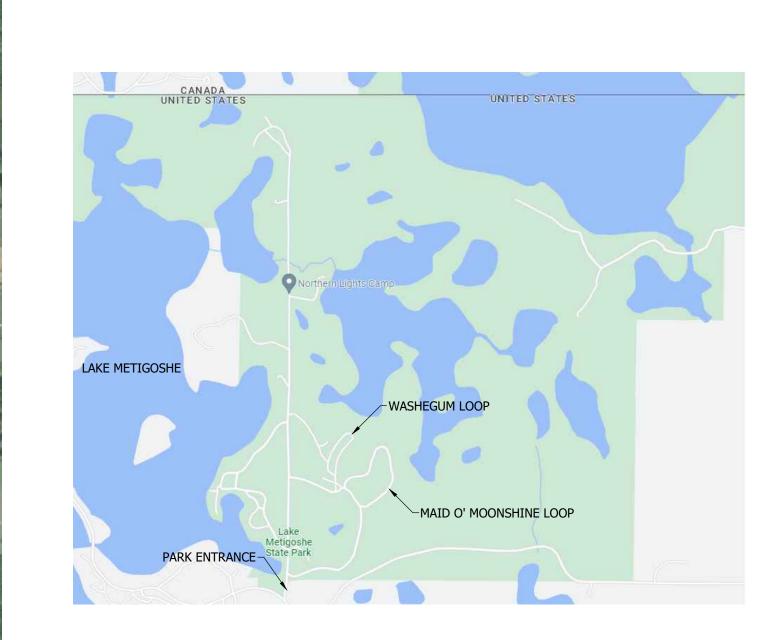
UTILITIES

NORTH CENTRAL ELECTRIC CO-OP Tyler Lee 538 11TH ST. W., #1 BOTTINEAU, ND 58318 701-228-2202 t.lee@nceci.com

GENERAL NOTES:

- IT IS UNDERSTOOD THAT THESE PLANS WERE DESIGNED IN ACCORDANCE WITH STANDARD PRACTICES WIDELY ACCEPTED THROUGH THE FIELD OF ELECTRICAL ENGINEERING AND SURVEYING AT THE TIME THEY WERE ISSUED ALTHOUGH THE PLANS REPRESENTED HERE HAVE BEEN DESIGN BY, OR UNDER THE DIRECT SUPERVISION OF, A REGISTERED PROFESSIONAL ENGINEER, BARTLETT & WEST WILL NOT BE RESPONSIBLE FOR THE ACCURACY OF ANY PHYSICAL WORK THAT IS NOT CONSTRUCTED UNDER THE DIRECT FULL TIME OBSERVATION OF PERSONNEL EMPLOYED BY BARTLETT & WEST.
- 2. LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND BASED UPON INFORMATION PROVIDED TO BARTLETT & WEST AND/OR FIELD OBSERVED. ACCURACY OF LOCATIONS OF ALL UNDERGROUND UTILITIES IS NEITHER GUARANTEED NOR WARRANTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- 3. ALL CONSTRUCTION SHALL CONFORM WITH LOCAL AND STATE BUILDING, PLUMBING, AND ELECTRICAL CODES.





NORTH DAKOTA ONE CALL 1-800-795-0555



3456 E CENTURY AVENUE - BISMARCK, ND 58:

OVER SHEET

PARKS & RECREATION DEPARTMENT

NORTH DAK

PESIGNED BY: ARH
PRAWN BY: SDM
PPROVED BY: MSV
PESIGN PROJ: 21219.000
ONST PROJ:
CALE: AS NOTED
PATE: 04-24-2023
PRAWING NO:
LM-CS

GENERAL SYMBOLS

INDICATES DIRECTION OF PLAN NORTH

DETAIL REFERENCE - UPPER NUMBER INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET

PLAN NOTE REFERENCE

REVISION DELTA

ROOM NUMBER REFERENCE

SECTION CUT REFERENCE - UPPER NUMBER INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET NUMBER



INDICATES CONNECTION TO EXISTING SYSTEM

G/C

M/C

E/C



ABOVE FINISHED FLOOR ABOVE FINISHED GRADE CENTERLINE ELEVATION DOWN **EXISTING**

GENERAL CONTRACTOR MECHANICAL CONTRACTOR ELECTRICAL CONTRACTOR PLUMBING CONTRACTOR

ALTERNATING CURRENT BREAKER CONTROL TRANSFORMER CIRCUIT BREAKER

DISCONNECT SWITCH DUPLEX RECEPTACLE, GFI DISCONNECT CIRCUIT BREAKER GROUND FAULT CIRCUIT BREAKER HOT BOX CIRCUIT BREAKER

LIGHT CIRCUIT BREAKER MAIN CIRCUIT BREAKER MOTORIZED DAMPER MOTOR POWER CIRCUIT BREAKER PUMP CIRCUIT BREAKER PANEL HEATER CIRCUIT BREAKER RECEPTACLE CIRCUIT BREAKER

SPARE CIRCUIT BREAKER TRANSFORMER TRANSFORMER CIRCUIT BREAKER TELEMETRY RADIO VALVE CONTROLS CIRCUIT BREAKER

QUOTATION AROUND TEXT INDICATES A SCHEDULED ITEM THESE LETTERS ADJACENT TO ANY SYMBOL INDICATES DEVICE

THESE LETTERS ADJACENT TO ANY SYMBOL INDICATES GROUND FAULT THESE LETTERS ADJACENT TO ANY SYMBOL INDICATES ISOLATED

GROUND SERVICE THESE LETTERS ADJACENT TO ANY SYMBOL INDICATES LOCKING OR

TWIST-LOCK TYPE DEVICE THESE LETTERS ADJACENT TO ANY SYMBOL INDICATES WEATHER-PROOF

ENCLOSURE THESE LETTERS ADJACENT TO ANY SYMBOL INDICATES

EXPLOSION-PROOF ENCLOSURE

THESE NUMBERS ADJACENT TO ANY SYMBOL INDICATES THE MOUNTING HEIGHT AFF TO TOP OF OF DEVICE

THESE LETTERS ADJACENT TO ANY SYMBOL INDICATES TAMPER PROOF

ARK S P MBOL , S _M A IS CTRIC, LEC

O

RAWN BY: APPROVED BY: DESIGN PROJ: 21219.000 CONST PROJ: AS NOTED 04-24-2023

LM-E-000

IGNED BY:	ARH
WN BY:	SDM
ROVED BY:	MSV
IGN PROJ:	21219.000
ST PROJ:	
LE:	AS NOTED

LM-E-101

46

ELECTRICAL IMPROVEMENT SITE PLAN - SOUTH WASHEGUM CAMPGROUND

SCALE: 1"=30"

-NEW UTILITY

METER

89

WASHEGUM LOOP ROAD—

"EP90"~

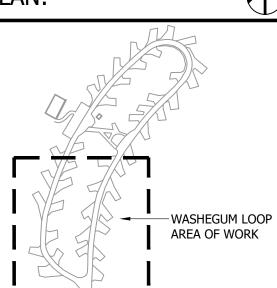
90

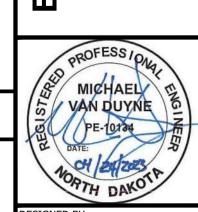
- STANDARDS. MIXED GRAVEL/SAND/DIRT REPLACEMENT FILL MATERIAL WILL NOT BE ACCEPTED. E/C WILL BE REQUIRED TO SORT EX MATERIAL IF REUSED. E/C TO COORDINATE ALL REQUIREMENTS WITH NORTH DAKOTA PARKS AND RECREATION DEPARTMENT.
- E/C TO REFER TO 1/LM-E-501 FOR NEW BACK-IN SITE PEDESTAL LOCATION, UNLESS NOTED OTHERWISE.

FEEDER SCHEDULE:

- TRENCH. REFER TO ELECTRICAL WIRING DETAILS 1/LM-E-503 FOR CIRCUITING AND FEEDER SCHEDULE.
- 2 NEW UNDERGROUND DIRECT BURY BRANCH FEEDER TRENCH. REFER TO ELECTRICAL WIRING DETAILS 2/LM-E-503 FOR CIRCUITING AND FEEDER SCHEDULE.
- 3) NEW UTILITY FEEDERS. REFER TO ELECTRICAL IMPROVEMENT RISER DIAGRAM 2/LM-E-602 FOR FEEDER

KEY PLAN:



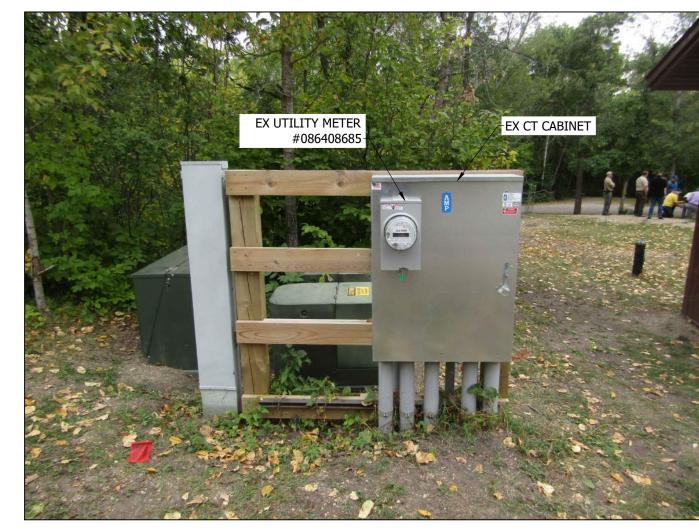


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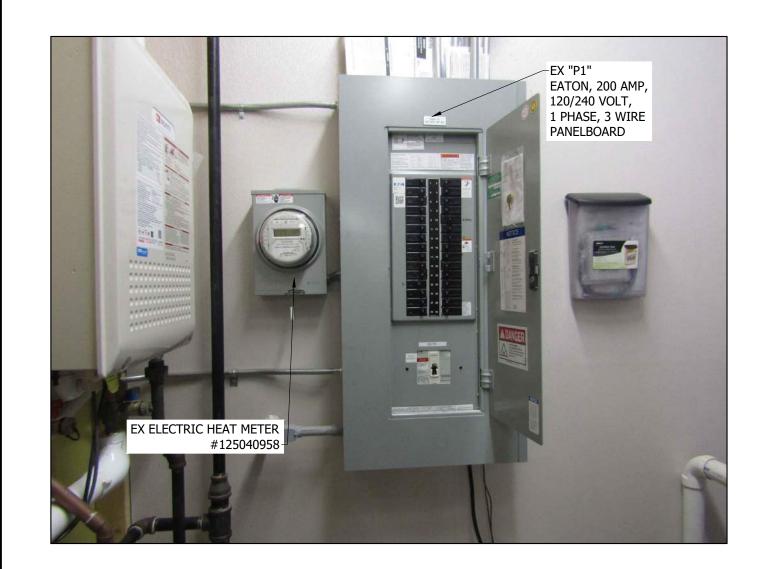
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RAWN BY SDM APPROVED BY: MSV DESIGN PROJ: 21219.000 CONST PROJ: AS NOTED 04-24-2023

LM-E-104



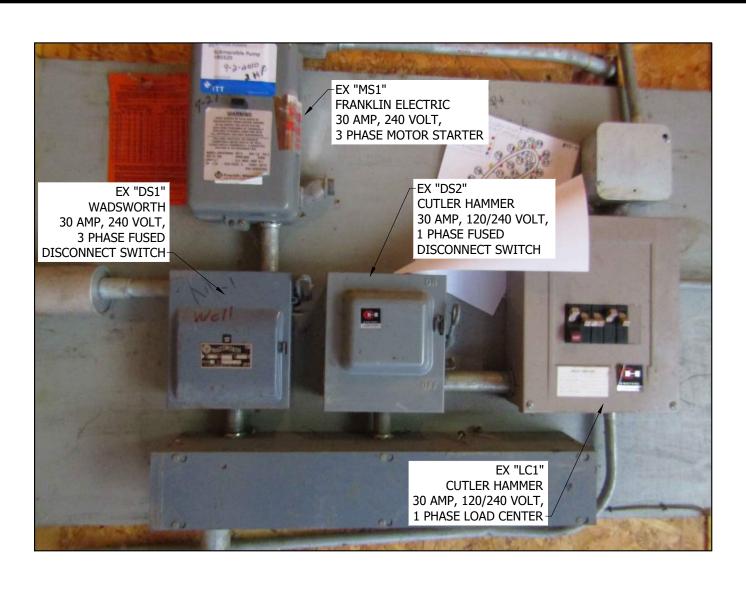
UTILITY METER, CT CABINET, UTILITY TRANSFORMERS
UTILITY SECTIONALIZER, EX "P1", EX "P3", AND EX "P4" (SITE 77)
NOT TO SCALE



COMFORT STATION EX "P1"



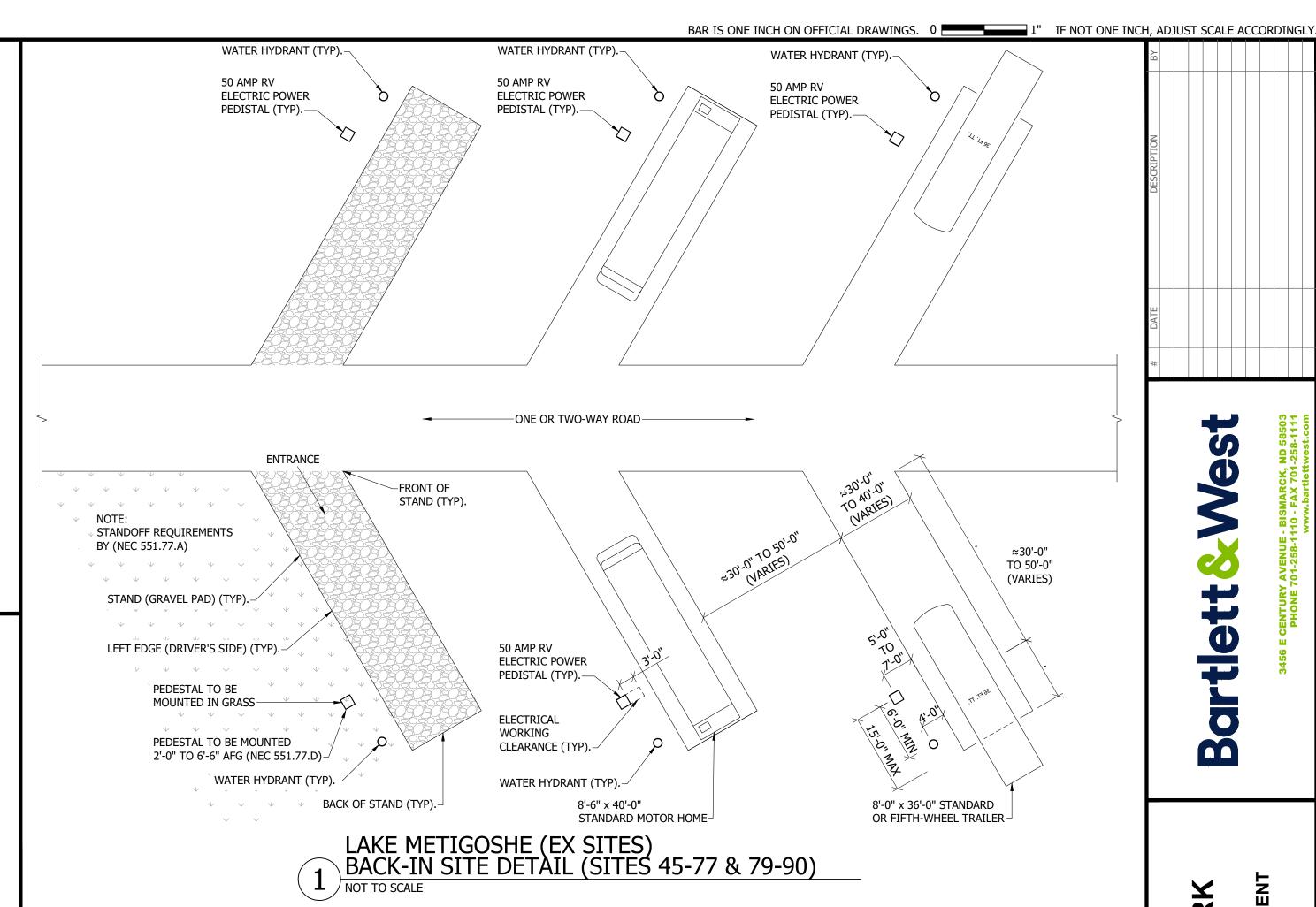
7 EX "P5" (SITE 57)
NOT TO SCALE

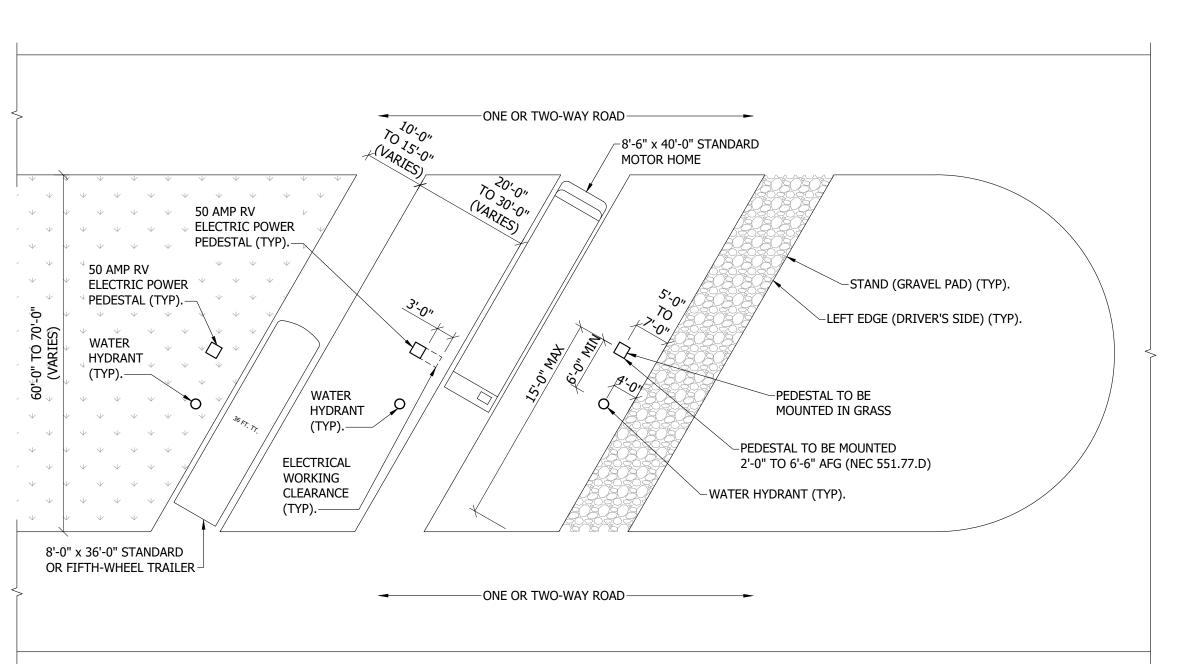


4 PUMP HOUSE EX "MS1", EX "LC1", EX "DS1"
NOT TO SCALE



5 EX LIFT STATION NOT TO SCALE





LAKE METIGOSHE (EX SITES)
PULL-THROUGH SITE DETAIL (SITE 78)
NOT TO SCALE

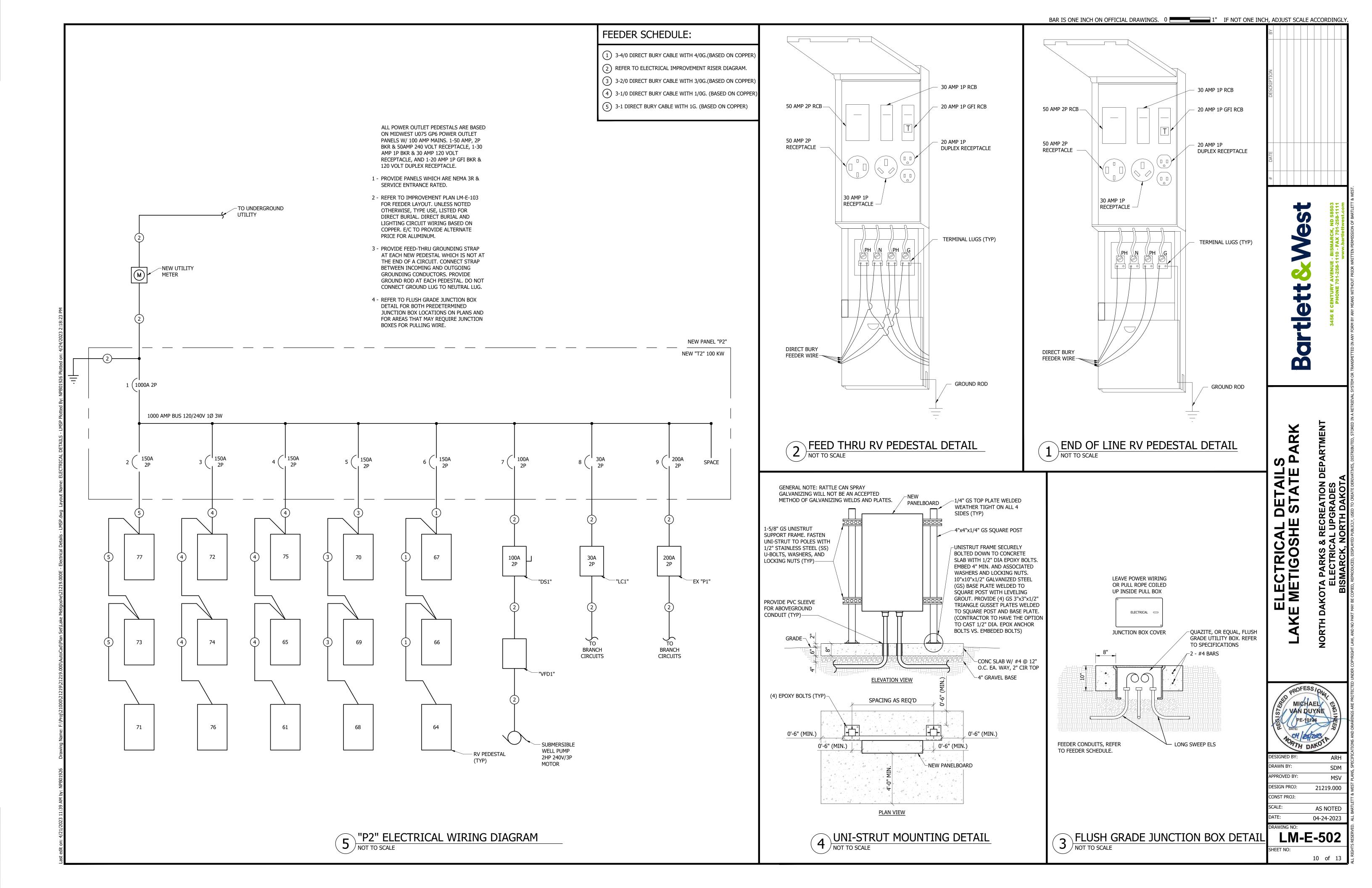
RAWN BY: SDM APPROVED BY: MSV ESIGN PROJ: 21219.000 CONST PROJ: AS NOTED

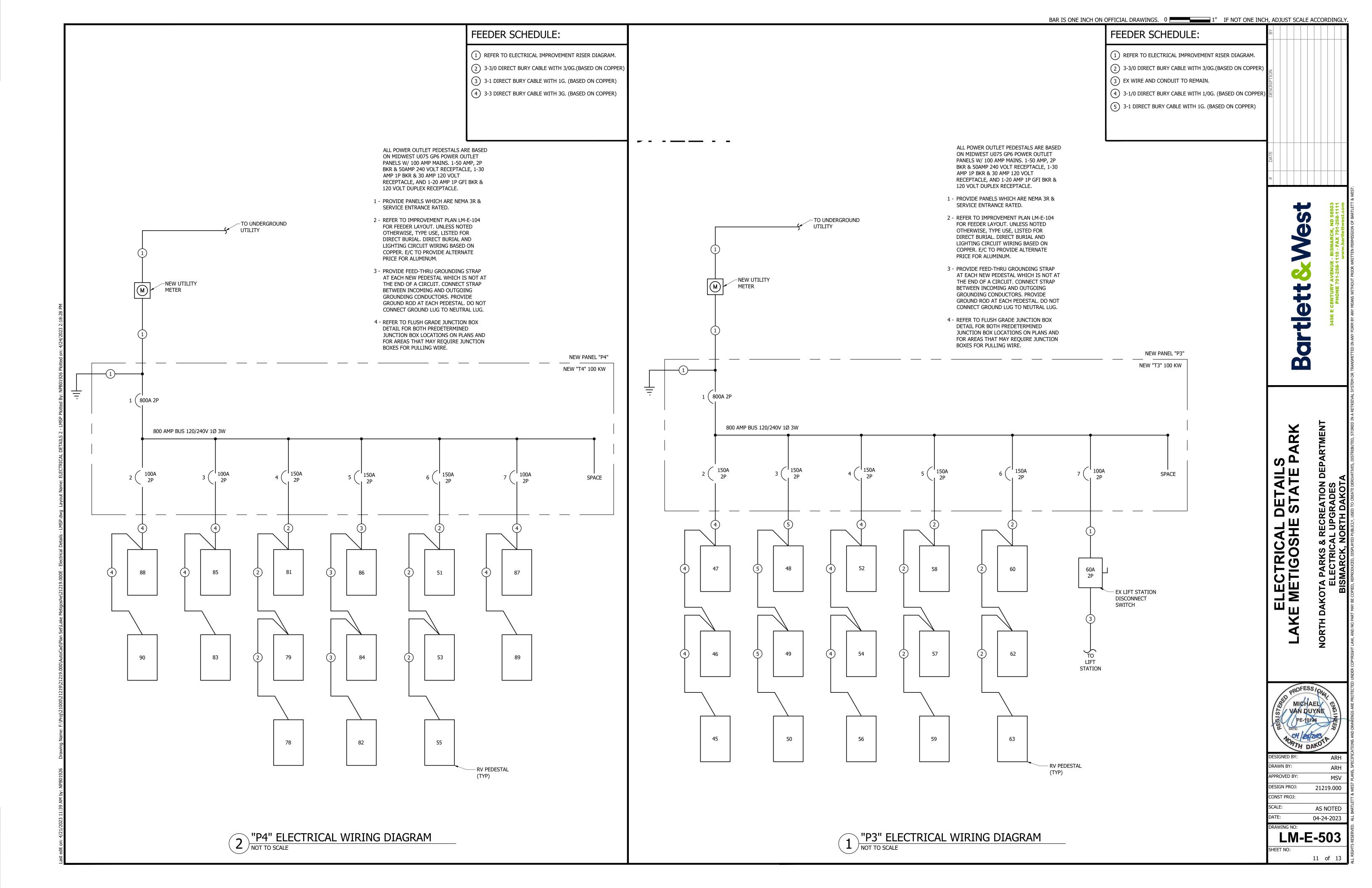
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DET. TE

ELECTRICAL SITE LAKE METIGOSHE S

04-24-2023 LM-E-501



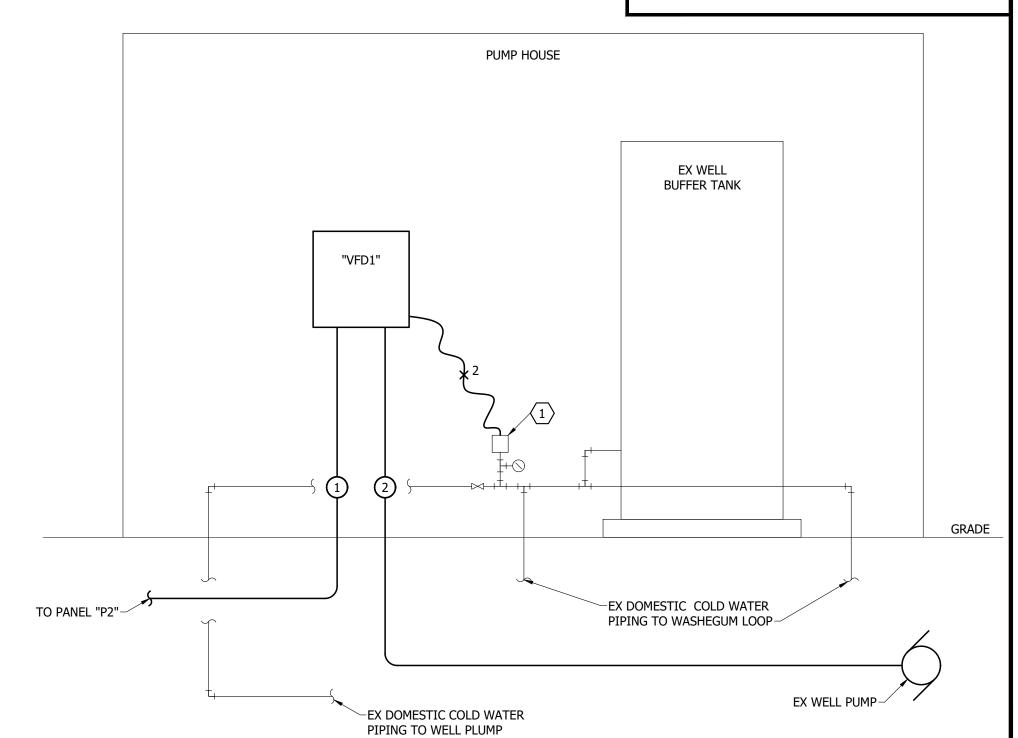


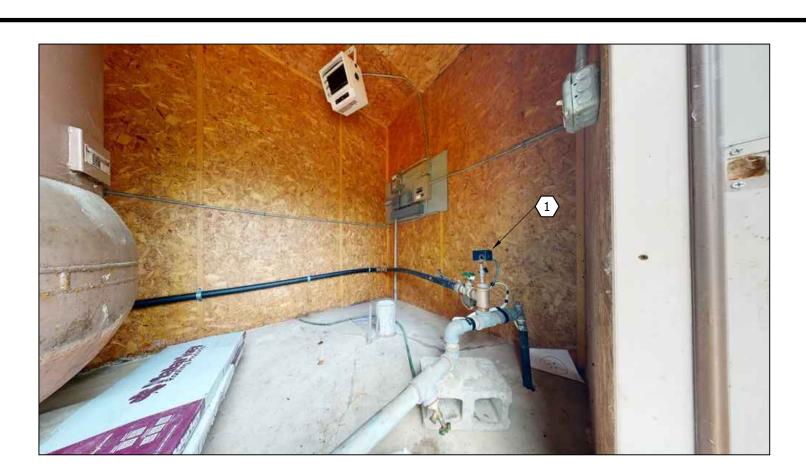
2 EX WELL PUMP FEEDER. REFER TO ELECTRICAL

IMPROVEMENT RISER DIAGRAM.

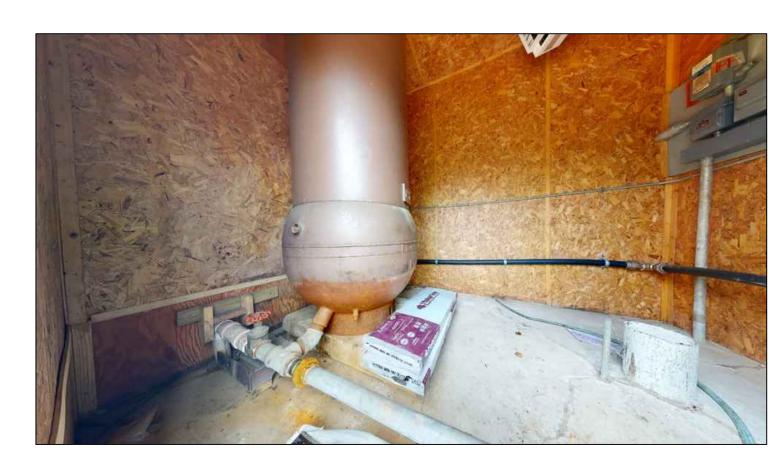
REFERENCE NOTES:

1 E/C TO REMOVE AND DISCONNECT EX PUMP PRESSURE SENSOR AND ALL ASSOCIATED CONTROL WIRE. E/C TO PROVIDE NEW VFD PRESSURE SENSOR AND ALL NEW CONTROL WIRE AND CONDUIT BACK TO VFD CONTACTS. E/C TO FIELD COORDINATE EXACT REQUIREMENTS WITH VFD AND PRESSURE SENSOR MANUFACTURER.





1 PUMP HOUSE VFD CONTROL DETAIL
NOT TO SCALE



2 PUMP HOUSE PHOTO DETAILS
NOT TO SCALE

MARK:	"P2"			NEMA 3R		MAIN BUSS:	1000	AMP
VOLTAGE:	120/240	PHASE:	1	WIRE:	3	GROUND BUS:	500	AMP
		-				CIRCUIT I	3REAKER	t
UNIT NO.		EQUIP	MENT SE	RVED		AMP	PO	LE
1	МСВ					1000	2	
2	RV SITE 71	,73,77				150	2	
3	RV SITE 72	,74,76		150	2			
4	RV SITE 61	,65,75		150	2	!		
5	RV SITE 68	,69,70		150		1		
6	RV SITE 64	,66,67		150	2			
7	PUMP HOUS	SE "VFD1"				100	2	
8	PUMP HOUS	SE "LC1"				30	2	
9	EX "P1"					200	2	•
10	SPACE							
11								
12								

MARK:	"P3"			NEMA 3R		MAIN BUSS:	800	AMP
VOLTAGE:	120/240	PHASE:	1	WIRE:	3	GROUND BUS:	400	AMP
						CIRCUIT	BREAKE	2
UNIT NO.		EQUIP	MENT SE	RVED		AMP POL)LE
1	МСВ					800		2
2	RV SITE 45	,46,47				150		2
3	RV SITE 48	,49,50	150		2			
4	RV SITE 52	,54,56	150	2				
5	RV SITE 57	,58,59	150	150 2				
6	RV SITE 60	,62,63	150		2			
7	LIFT STAT	ION	60	1	2			
8	SPACE							
9								
10								
11								
12								
ACCESSOR	IES:						2-	
	AIC RATING	G (MINIMUM	1)					

MARK:	"P4"			NEMA 3R		MAIN BUSS:	800	AMF
VOLTAGE:	120/240	PHASE:	1	WIRE:	3	GROUND BUS:	400	AMF
		A		_1		CIRCUIT	BREAKER	
UNIT NO.		EQUIP	MENT SI	ERVED		AMP	POL	.E
1	MCB					800	2	
2	RV SITE 88	3 <mark>,</mark> 90				100	2	
3	RV SITE 83	3,85	100	2				
4	RV SITE 78	3,79,81	150	2				
5	RV SITE 82	2,84,86	150		è			
6	RV SITE 51	,53,55	150		0			
7	RV SITE 87	,89				100	2	
8	SPACE							
9								
10								
11								
12								

			_							ENCLOSURE	2000
MARK	MFGR	MODEL	AMPERAGE	VOLTAGE	POLES	"P2" CIRCUIT #	"P3" CIRCUIT #	"P4" CIRCUIT #	RECEPTACLES	TYPE	NOTE
"EP45"	MIDWEST	U075GP6	100	240	2		2		50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP46"	MIDWEST	U075GP6	100	240	2		2		50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP47"	MIDWEST	U075GP6	100	240	2		2		50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP48"	MIDWEST	U075GP6	100	240	2		3		50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP49"	MIDWEST	U075GP6	100	240	2		3		50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP50"	MIDWEST	U075GP6	100	240	2		3		50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP51"	MIDWEST	U075GP6	100	240	2			6	50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP52"	MIDWEST	U075GP6	100	240	2		4		50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP53"	MIDWEST	U075GP6	100	240	2			6	50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP54"	MIDWEST	U075GP6	100	240	2		4		50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP55"	MIDWEST	U075GP6	100	240	2			6	50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP56"	MIDWEST	U075GP6	100	240	2		4		50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP57"	MIDWEST	U075GP6	100	240	2		5		50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP58"	MIDWEST	U075GP6	100	240	2		5		50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP59"	MIDWEST	U075GP6	100	240	2		5		50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP60"	MIDWEST	U075GP6	100	240	2		6		50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP61"	MIDWEST	U075GP6	100	240	2	4			50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP62"	MIDWEST	U075GP6	100	240	2		6		50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP63"	MIDWEST	U075GP6	100	240	2		6		50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP64"	MIDWEST	U075GP6	100	240	2	6			50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP65"	MIDWEST	U075GP6	100	240	2	4			50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP66"	MIDWEST	U075GP6	100	240	2	6			50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP67"	MIDWEST	U075GP6	100	240	2	6			50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP68"	MIDWEST	U075GP6	100	240	2	5			50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP69"	MIDWEST	U075GP6	100	240	2	5			50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP70"	MIDWEST	U075GP6	100	240	2	5			50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP71"	MIDWEST	U075GP6	100	240	2	2			50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP72"	MIDWEST	U075GP6	100	240	2	3			50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP73"	MIDWEST	U075GP6	100	240	2	2			50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP74"	MIDWEST	U075GP6	100	240	2	3			50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP75"	MIDWEST	U075GP6	100	240	2	4			50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP76"	MIDWEST	U075GP6	100	240	2	3			50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP77"	MIDWEST	U075GP6	100	240	2	2			50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP78"	MIDWEST	U075GP6	100	240	2			4	50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP79"	MIDWEST	U075GP6	100	240	2			4	50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP81"	MIDWEST	U075GP6	100	240	2			4	50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP82"	MIDWEST	U075GP6	100	240	2			5	50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP83"	MIDWEST	U075GP6	100	240	2			3	50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP84"	MIDWEST	U075GP6	100	240	2			5	50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP85"	MIDWEST	U075GP6	100	240	2			3	50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP86"	MIDWEST	U075GP6	100	240	2	9		5	50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP87"	MIDWEST	U075GP6	100	240	2	0		7	50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP88"	MIDWEST	U075GP6	100	240	2			2	50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP89"	MIDWEST	U075GP6	100	240	2			7	50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2
"EP90"	MIDWEST	U075GP6	100	240	2			2	50A/2P, 30A/1P, 20A/1P	NEMA 3R	1,2

NOTES: 1. LOCATE NEW BACK IN PEDESTALS 5'-7' FROM LEFT EDGE (DRIVER'S SIDE) OF STAND AND A MAXIMUM OF 15'-0" FROM BACK OF STAND TO COMPLY WITH 551.77(A) OF N.E.C. PROVIDE FEED THRU LUGS.

MARK: "LC1"				1	NEMA 1			MOUNTING:		SURFA	CE	18K AIC RATING (MI	INIMUM)
VOLTA	GE: 120/240	PHASE:	1 V	VIRE:	3	POLES:	6	MAIN BUSS:		40	AMP	MAIN C/B:	40 AMP
CIRC.	LOAD DESCRIF	PTION	C	CIRC.	LOAD	PHA	SE L	DAD IN VA	LOAD	CIRC.		LOAD DESCRIPTION	CIRC
NO.			В	BRKR	(VA)	A		В	(VA)	BRKR.			NO.
1	EX LIGHTS & REC	CEPTACLE	20	0A1P	500	3000			2500	20A2P		EX 5KW HEATER	2
3	EX WP RECEP	TACLE	20	0A1P	180			2680	2500	-		8	4
5	SPARE		20	0A1P	100	100							6
TOTALS	:	370				3100		2680					
MAX. PI	ASE VA: 310	0 MAX. PHAS	SE AMPS	S:	26	MAX. PHA	SE D	IVERSIFIED VA:	_	3100	MAX. P	HASE DIVERSIFIED AMPS:	26

		LOAD			DRIVE		MOUNTING	3 TYPE		
MARK	EQUIPMENT SERVED	HP	VOLT	PHASE	FLA*	TYPE	FLOOR	WALL	MCC	NOTES
"VFD1"	SUBMERSIBLE PUMP	5	240	3	24	PWM		X		1,2,3
2.	NEMA 1 ENCLOSURE DELUXE KEYPAD (NO COI PROVIDE FRANKLIN ELEC WITH 240 VOLT, 1 PHAS	CTRIC SUBDRI	VE 50 CON			3 7020550 3	3C			

*VERIFY FLA WITH PUMP MANUFACTURER (MOTORS MAY BE SUBMERSIBLE OR HAVE VARYING FLA)

	EQUIPMENT	SWITCH			FUSE		ENCLOSURE	NOTES
MARK	SERVED	VOLTAGE	AMP	POLE	AMP	TYPE	NEMA TYPE	
"DS1"	"VFD1"	240	60	2	50	FRNRK	1	

Bar

	Ur
DESIGNED BY:	ARH
DRAWN BY:	
APPROVED BY:	MSV
DESIGN PROJ:	21219.000
CONST PROJ:	
SCALE:	AS NOTED
DATE:	04-24-2023
DRAWING NO:	

LM-E-601 12 of 13

- THE EX CONDITIONS HAVE BEEN SHOWN BASED ON CASUAL ON-SITE INVESTIGATION WITH NO GUARANTEE TO THEIR ACCURACY, CONTRACTOR TO BE RESPONSIBLE TO FIELD VERIFY EX CONDITIONS.
- E/C TO FIELD COORDINATE ALL WORK WITH OTHER TRADES.
- E/C TO FIELD COORDINATE WITH NORTH CENTRAL ELECTRIC CO-OP (NCE) FOR ALL UTILITY COORDINATION. NCE CONTACT: TYLER LEE PHONE: (701) 228-2202 EMAIL: t.lee@nceci.com
- E/C TO BE RESPONSIBLE FOR ALL NEW ELECTRIC UTILITY CONNECTION COSTS.

- **REFERENCE NOTES:**
- (1) EX PANELBOARD, POWER CONNECTION, WOOD STRUCTURE, AND ALL ASSOCIATED ABOVE GRADE WIRE AND CONDUIT TO BE REMOVED. REMOVE EX UNDERGROUND POST AND BACKFILL.
- $\langle 2 \rangle$ EX BELOW GRADE DIRECT BURY WIRE TO BE CUT BACK AND REMOVED TO 1'-0" BELOW GRADE. EX BELOW GRADE DIRECT BURY WIRE BELOW 1'-0" TO BE DISCONNECTED AND ABANDONED IN PLACE.
- $\langle 3 \rangle$ EX UTILITY METER, CT CABINET, AND ASSOCIATED WIRE TO BE REMOVED. METER NUMBER 086408685. E/C TO FIELD COORDINATE EXACT REMOVAL REQUIREMENTS WITH ELECTRIC UTILITY.
- $\overline{\langle 4 \rangle}$ EX UTILITY TRANSFORMERS, EQUIPMENT BASE, AND ASSOCIATED WIRE AND CONDUIT TO BE REMOVED. E/C TO FIELD COORDINATE EXACT REMOVAL REQUIREMENTS WITH ELECTRIC UTILITY.
- $\langle 5
 angle$ EX PANELBOARD, ASSOCIATED ELECTRIC HEAT METER, AND BRANCH CIRCUITS TO REMAIN. ALL EX WIRE AND CONDUIT TO BE TO REMAIN UNLESS NOTED OTHERWISE.
- (6) EX LOAD CENTER, ASSOCIATED DISCONNECT SWITCH, POWER CONNECTION, ALL ASSOCIATED ABOVE GRADE MAIN FEEDER WIRE AND CONDUIT TO BE REMOVED. EX BRANCH FEEDER WIRE AND CONDUIT TO BE DISCONNECTED AND REUSED.
- (7) EX MOTOR STARTER, ASSOCIATED DISCONNECT SWTICH, POWER CONNECTION, AND ALL ASSOCIATED ABOVE GRADE FEEDER WIRE AND CONDUIT TO BE REMOVED. EX UNDERGROUND FEEDER WIRE AND CONDUIT TO WELL PUMP TO REMAIN.
- $\langle 8 \rangle$ EX WIRE GUTTER TO BE REMOVED.
- $\langle 9 \rangle$ ex Branch feeder wire and conduit to be EXTENDED AND RECONNECTED TO NEW "LC1". FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.
- (10) E/C TO PROVIDE NEW UNI-STRUT MOUNTING STRUCTURE. REFER TO UNI-STRUT MOUNTING DETAIL 4/LM-E-502.
- $\langle 11 \rangle$ EX BRANCH FEEDER WIRE AND CONDUIT TO REMAIN. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.
- (12) EX UNDERGROUND FEEDER WIRE AND CONDUIT TO BE EXTENDED AND RECONNECTED TO NEW "VFD1". FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.
- (13) EX UTILITY PRIMARY FEEDERS TO BE REMOVED BY ELECTRIC UTILITY. E/C TO FIELD COORDINATE.
- (14) NEW UTILITY PRIMARY FEEDERS TO BE PROVIDED BY ELECTRIC UTILITY. E/C TO FIELD COORDINATE.

ELECTRICAL DEMOLITION RISER DIAGRAM

WASHEGUM LOOP, SITES 45-90

EX CT CABINET

POWER (

PEDESTALS

TO EX

POWER

PEDESTALS

BACK OF WOOD

STRUCTURE

AT SITE 77

200A

TO EX 2

POWER

) PEDESTALS

SITE 57

EX "P5" = 200A

(19)

100

100

7 TO EX

PEDESTALS

POWER

FRONT OF WOOD

STRUCTURE

AT SITE 77

EX UTILITY METER

#086408685-

- LIFT STATION

DISCONNECT

SWITCH

"T2"

EX 45kVA

UTILITY

┌ <u>"</u>T1"

EX 45kVA

UTILITY

FEEDER SCHEDULE:

- 1) EX UTILITY PRIMARY FEEDER WIRE AND CONDUIT TO BE REMOVED.
- 2 EX UTILITY GROUND WIRE AND CONDUIT TO BE REMOVED.
- 3 EX MAIN SERVICE FEEDER WIRE AND CONDUIT TO BE
- (4) EX MAIN SERVICE GROUND WIRE AND CONDUIT TO BE
- (5) EX MAIN SERVICE FEEDER WIRE, UTILITY METER, WIRE AND CONDUIT TO BE REMOVED.
- (6) EX UNDERGROUND DIRECT BURY MAIN FEEDER TO
- REMAIN AND BE ABANDONED IN PLACE.
- (7) EX UNDERGROUND DIRECT BURY BRANCH FEEDER TO REMAIN AND BE ABANDONED IN PLACE.
- (8) UTILITY TO PROVIDE PRIMARY FEEDERS, ASSOCIATED CONDUIT AND TRENCHING. E/C TO COORDINATE WITH
- (9) 3-400 IN EACH OF 3-3"C. (BASED ON COPPER)
- (10) 1-3/0G IN 1"C. (BASED ON COPPER)
- 11) UTILITY GROUND WIRE AND CONDUIT, COORDINATE WITH UTILITY.
- (12) 3-300 IN EACH OF 3"C. (BASED ON COPPER)
- (13) 1-2/0G IN 1"C. (BASED ON COPPER)
- (14) 3-3/0 & 1-6G IN 2"C. (BASED ON COPPER)
- 15 EX ELECTRIC HEAT METER WIRING AND CONDUIT TO
- (16) 3-8 & 1-8G IN 1"C. (BASED ON COPPER)
- (17) 3-4 & 1-10G IN 1"C.
- (18) EX BRANCH FEEDERS TO REMAIN.
- (19) EX ABOVEGROUND CONDUIT AND ASSOCIATED MAIN FEEDER TO BE REMOVED.

0

GRAMS

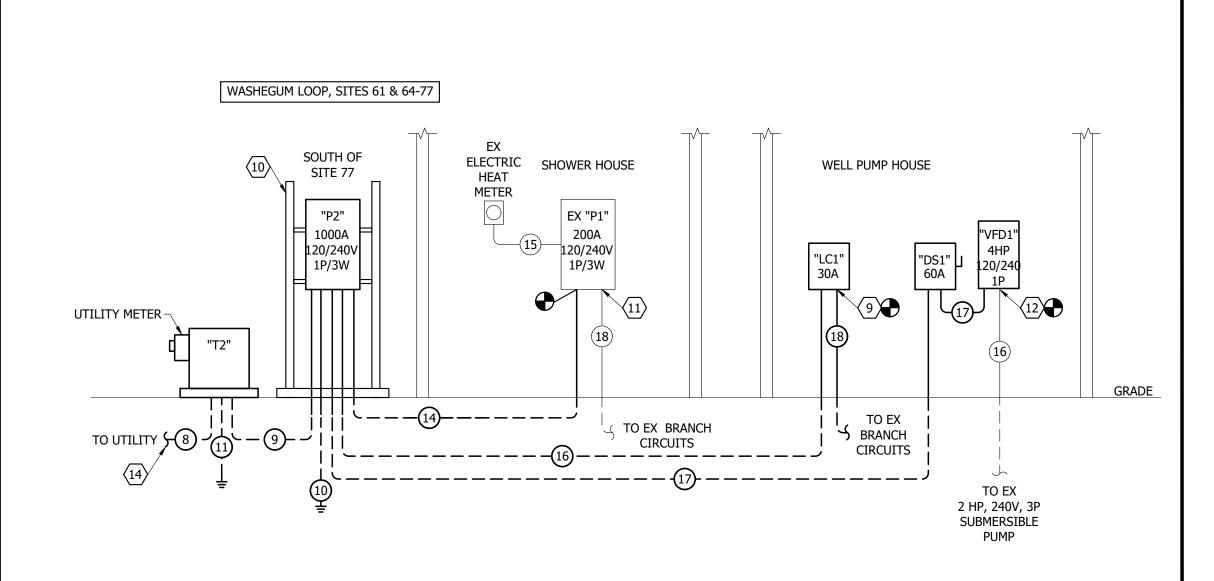
DIA

- RISER I

TRICAL

DESIGNED BY:	ARH
DRAWN BY:	SDM
APPROVED BY:	MSV
DESIGN PROJ:	21219.000
CONST PROJ:	
SCALE:	AS NOTED
DATE:	04-24-2023
DRAWING NO:	

LM-E-602 13 of 13



4 ELECTRICAL IMPROVEMENT RISER DIAGRAM
NOT TO SCALE

UTILITY METER-

ELECTRIC SHOWER HOUSE

—(15)—

EX "P1"

200A

HEAT METER 5

3 ELECTRICAL IMPROVEMENT RISER DIAGRAM
NOT TO SCALE

WASHEGUM LOOP, SITES 45-50, 52,

54, 56-60, 62, & 63

SOUTH OF

SITE 86

WASHEGUM LOOP, SITES 51, 53, 55,

78, 79, 81-90

SOUTH OF

SITE 48

"P3" 800A 800A 120/240V 120/240V 1P/3W 1P/3W UTILITY METER-"T3" TO EX LIFT STATION

WELL PUMP HOUSE

TO BRANCH

CIRCUITS

TO REMAIN

GRADE

TO WELL

PUMP

TO REMAIN

2 ELECTRICAL IMPROVEMENT RISER DIAGRAM
NOT TO SCALE