Henry P. Roybal
Commissioner, District 1

Anna Hansen
Commissioner, District 2

Rudy N. Garcia
Commissioner, District 3

Anna T. Hamilton
Commissioner, District 4

Ed Moreno
Commissioner, District 5

Katherine Miller
County Manager

May 3, 2019

SANTA FE COUNTY
IFB NO. 2019-0138-PW/KE
CONSTRUCTION PHASE III IMPROVEMENTS AT
POJOAQUE VALLEY RECREATION COMPLEX
ADDENDUM #1

Dear Proponents,

This addendum is issued to reflect the following immediately. It shall be the responsibility of interested Offerors to adhere to any changes or revisions to the IFB as identified in this Addendum No. 1. This documentation shall become permanent and made part of the departmental files.

ATTACHMENTS:

Pre-Proposal Sign-In-Sheet (2) attached
State of New Mexico Wage Rates
Updated drawings: E-02 Electrical Site Plan, E-04 Electrical Power Plan, E-06 Electrical Power Diagrams

On April 24, 2019 Santa Fe County held the pre-bid meeting and site visit for the above referenced Invitation for Bid (IFB).

QUESTION 1: What is the estimated start date?

ANSWER 1: Start date is negotiable. We anticipate awarding the contract the middle of June.

QUESTION 2: What is the soil like?

ANSWER 2: There is a geotechnical report that will be made available to the awarded contractor.

QUESTION 3: What is the MACC on this project?

ANSWER 3: $1,170,000.00

QUESTION 4: Where can we get hard copies of the plans for this project?

ANSWER 4: The PDF on our website can be downloaded and taken to any print shop that does full size (24 x 36) copies or any other size you would like to work with.

QUESTION 5: Will the County provide internal utility line locates?

ANSWER 5: No, the contractor will be responsible for obtaining and maintaining internal utility locates during construction. Digital files of existing known on-site utilities recorded as part of previous construction phases will be made available to the awarded contractor.

QUESTION 6: Is the sports lighting part of the project?

ANSWER 6: The sports lighting components are for information only and are intended to be installed as part of a future phase. Electric schedules on E-08, E-09, and E-10 are part of a future phase.

Changes to the Drawings

1. E-02 Electrical Site Plan, Revisions to note 9/E-02:
   REVISE Keyed Note 9: NEW UTILITY POLE LOCATION. COORDINATE WITH UTILITY TO ADD NEW POLE AND REMOVE POLES DOWN STREAM. REPLACE POLE TOP TRANSFORMER WITH NEW POLE TOP TRANSFORMER TO MATCH THE EXISTING 37.5KVA UTILITY TRANSFORMER. CONNECT TO **NEW** ~~EXISTING~~ METER BELOW GRADE VIA 4" BURIED CONDUIT **36"** ~~24"~~ BELOW GRADE MINIMUM. **INSTALL RIDGID ELBOWS AT RISER TRANSITIONS FROM BELOW GRADE.**

2. E-04 Electrical Power Plan, Revisions to note 11/E-04, New note 15/E-04:
   REVISE Keyed Note 11: INSTALL 4" SCHEDULE 40 PVC CONDUIT FOR NEW UNDERGROUND FEED TO THE NEW POLE MOUNTED TRANSFORMER. CONDUIT TO BE INSTALLED AT A MINIMUM OF **36"** ~~24"~~ BELOW GRADE. **INSTALL RIDGID ELBOWS AT RISER TRANSITIONS FROM BELOW GRADE.**

   ADD Keyed Note 15: **PROVIDE A NEW METER BASE FOR NEW ELECTRICAL METER. METER BASE SHALL ADHERE TO JMEC ELECTRICAL STANDARDS, 3-PHASE, 7 JAW, SELF-CONTAINED.**

3. E-06 Electrical Power Diagrams, Revisions to note 11/E-06:
   REVISE Keyed Note 11: INSTALL (1) 4" SCHEDULE 40 PVC CONDUIT FROM NEW POLE MOUNTED TRANSFORMER TO ~~RE~~FEED **NEW** ~~EXISTING~~ METER.

Please add this Addendum #1 to the original bid documents and refer to bid documents, hereto as such. This and all subsequent addenda will become part of any resulting contract documents and have effects as if original issued. All other unaffected sections will have their original interpretation and remain in full force and effect.

Bidders are reminded that any questions or need for clarification must be addressed to Karen K. Emery, Senior Procurement Specialist at kkemery@santafecountynm.gov.

SIGN IN SHEET FOR PRE-BID MEETING

IFB# 2019-0138-PW/KE

CONSTRUCTION PHASE III IMPROVEMENTS AT

POJOAQUE VALLEY RECREATION COMPLEX

March 24, 2019, 10:00 AM

(Please Print Clearly)

NAME	COMPANY	TELEPHONE	E-MAIL ADDRESS
Adriana Brown	Anissa Construction	505. 250. 5434	anissaconstruction@gmail.com
Quintin Wright	Longhorn Construction Services	505-858-1360	LCSinc@gmail.com
Patrick Herrera	Allied 360 Const.	505 470-5779	patrickherrera@ymail.com
Karen Emery	SFC Purchasing	505-922-9865	KKEmery@SantaFeCountyNM.Gov

SIGN IN SHEET FOR PRE-BID MEETING

IFB# 2019-0138-PW/KE

CONSTRUCTION PHASE III IMPROVEMENTS AT

POJOAQUE VALLEY RECREATION COMPLEX

March 24, 2019, 10:00 AM

(Please Print Clearly)

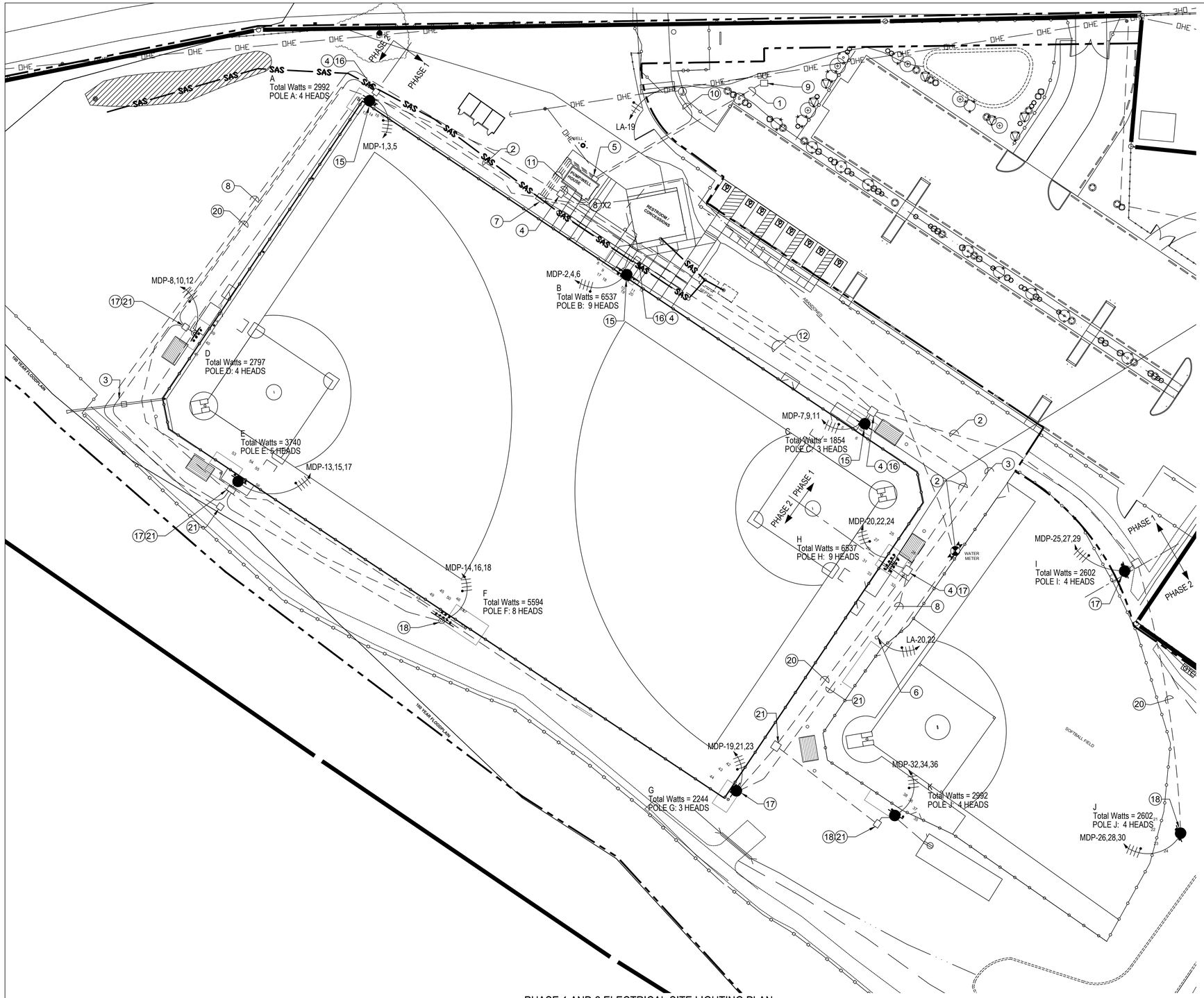
NAME	COMPANY	TELEPHONE	E-MAIL ADDRESS
DAN VALLO	LONE MOUNTAIN CONTRACTING	505 916-4230	dan@ LONE MOUNTAIN.COM JEFF@ LONE MOUNTAIN.COM
MIKE HART	KHAPO CONSTRUCTION	505 410-6578	M.HART@KHAPOCONSTRUCTION.COM
David Espinosa	Mick Rich Contractors	505-823-9782	~~d espinosa@mickrichcontractors.com~~ desp inosa@mickrichcontractors.com
Claudia Horn	design office	505.577.0375	chorn@do-designoffice.com
Colleen Baker	Santa Fe County	—	—

TYPE "A" - STREET, HIGHWAY, UTILITY & LIGHT ENGINEERING

Effective January 1, 2019

Trade Classification	Base Rate	Fringe Rate
Bricklayer/Blocklayer/Stonemason	23.78	9.08
Carpenter/Lather	24.08	10.84
Cement Mason	17.42	6.61
Ironworker	26.50	16.20
Painter (Brush/Roller/Spray)	17.00	6.78
Plumber/Pipefitter	29.45	12.37
Electricians (outside)		
Groundman	22.81	11.93
Equipment Operator	32.73	14.51
Lineman/Wireman or Tech	38.51	16.02
Cable Splicer	42.36	17.01
Laborers		
Group I	11.81	5.88
Group II	12.11	5.88
Group III	12.51	5.88
Group IV	12.76	5.88
Operators		
Group I	18.60	5.94
Group II	19.52	5.94
Group III	19.62	5.94
Group IV	19.73	5.94
Group V	19.83	5.94
Group VI	20.01	5.94
Group VII	20.17	5.94
Group VIII	20.46	5.94
Group IX	27.88	5.94
Group X	31.10	5.94
Truck Drivers		
Group I	16.15	7.52
Group II	16.15	7.52
Group III	16.15	7.52
Group IV	16.15	7.52
Group V	16.15	7.52
Group VI	16.15	7.52
Group VII	16.15	7.52
Group VIII	16.21	7.52
Group IX	18.15	7.52

NOTE: All contractors are required to pay SUBSISTENCE, ZONE AND INCENTIVE PAY according to the particular trade. Details are located in a PDF attachment at WWW.DWS.STATE.NM.US. Search Labor Relations/Labor Information/Public Works/Prevailing Wage Rates.



PHASE 1 AND 2 ELECTRICAL SITE LIGHTING PLAN

3/8" = 1'-0"

GENERAL NOTES:

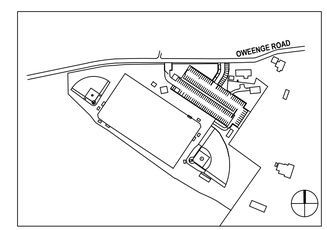
1. IF THIS SHEET IS NOT 24"X36" USE GRAPHIC SCALE ACCORDINGLY.
2. LOCATE PULL BOXES IN RELATION TO THE POLE SO THAT CONDUIT ANGLES DO NOT EXCEED PULLING TENSION LIMITS.
3. FOLLOW ALL LOCAL, STATE, AND UTILITY CODES AND STANDARDS. CONTRACTOR TO REPLACE ALL EXISTING OUTDOOR RECEPTACLE OUTLETS WITH NEW GFCI RECEPTACLES AND OUTDOOR COVERS.

PHASE 1 KEYED NOTES:

1. BURY 4" SCHEDULE 40 PVC CONDUIT AT 36" BELOW GRADE.
2. INSTALL (1) 2" SCHEDULE 40 PVC CONDUIT AT 24" BELOW GRADE.
3. INSTALL LONG CONDUIT SWEEPS AT CORNERS.
4. INSTALL 12"x18" TRAFFIC RATED PULL BOX. CONDUIT FROM PULL BOX TO POLE SHALL BE INSTALLED AFTER POLE BASE INSTALLATION.
5. SEE SHEET E-05, ELECTRICAL RISER DIAGRAM .
6. INSTALL 12"x18" TRAFFIC RATED PULL BOX. CONDUIT FROM PULL BOX TO SOFTBALL DUGOUT FOR A/V OUTLET. INSTALL (3) #3 AND (1) #8 CU G AWG. COORDINATE WITH VENDOR FOR LOCATION OF OUTLET.
7. INSTALL 24" X 36" X 24" TRAFFIC RATED PULL BOX WITH HEAVY DUTY COVER.
8. INSTALL (1) 1-1/2" SCHEDULE 40 PVC CONDUIT AT 24" BELOW GRADE FOR A/V PANEL AND FUTURE SECURITY CAMERAS. CAP AND MARK END OF CONDUIT FOR PHASE 2 INSTALLATION OF FUTURE SECURITY CAMERA CONDUIT.
9. NEW UTILITY POLE LOCATION. COORDINATE WITH UTILITY TO ADD NEW POLE AND REMOVE POLES DOWN STREAM. REPLACE POLE TOP TRANSFORMER WITH NEW POLE TOP TRANSFORMER TO MATCH THE EXISTING 37.5KVA UTILITY TRANSFORMER. CONNECT TO NEW METER BELOW GRADE VIA 4" BURIED CONDUIT 36" BELOW GRADE MINIMUM. INSTALL RIDGID ELBOWS AT RISER TRANSITIONS FROM BELOW GRADE.
10. INSTALL (1) 1" SCHEDULE 40 PVC CONDUIT AT 24" BELOW FINISH GRADE FOR GATE OPENER.
11. INSTALL (3) 2" AND (1) 1 1/2" SCHEDULE 40PVC CONDUITS AT 24" BELOW GRADE FROM BUILDING TO JUNCTION BOX. THE 3-2" CONDUITS STARTS AT THE 480V PANEL AND THE (1) 1.25" CONDUIT START AT THE 208V PANEL.
12. INSTALL (2) 2" SCHEDULE 40 PVC CONDUITS AT 24" BELOW GRADE.
13. INSTALL (1) 1 1/2" SCHEDULE 40 PVC CONDUIT AT 24" BELOW GRADE FOR FUTURE SECURITY CAMERAS.
14. CONTRACTOR TO REMOVE RECEPTACLE AND INSTALL WEATHER PROOF JUNCTION BOX TO SPLICE EXISTING CIRCUIT AND EXTEND VIA 1" SCHEDULE 40 PVC CONDUIT UNDERGROUND A MINIMUM OF 24" BURIED. ADD NEW GFCI RECEPTACLE WITH WEATHER PROOF COVER AT BATTERS CAGE. COORDINATE WITH OWNER AND ARCHITECT FOR EXACT LOCATION BEFORE ROUGH IN.
15. LIGHT POLE BASE SEE DETAIL 1 FOR ELECTRICAL CONDUIT INFORMATION. SEE STRUCTURAL DETAIL ## FOR ALL STRUCTURAL RELATED INFORMATION.

PHASE 2 KEYED NOTES:

16. INSTALL (3) #10 AND (1) #10 CU G AWG.
17. INSTALL (3) #8 AND (1) #10 CU G AWG.
18. INSTALL (3) #6 AND (1) #8 CU G AWG.
19. NOT USED.
19. INSTALL (1) 2" SCHEDULE 40 PVC CONDUIT AT 24" BELOW GRADE.
20. INSTALL 12"x18" TRAFFIC RATED PULL BOX. CONDUITFROM PULL BOX TO POLE SHALL BE INSTALLED AFTER POLE BASE INSTALLATION.
21. INSTALL (1) 1 1/2" SCHEDULE 40 PVC CONDUIT AT 24" BELOW GRADE FOR FUTURE SECURITY CABLES.



KEY MAP NTS

REVISIONS

ISSUED	DATE	DESCRIPTION

WILSON + COMPANY, INC.
4401 Masthead Street
Albuquerque, NM 87109
t 505.348.4000 www.wilsonco.com

Krupnick Studio
6000 Lena Street, Bldg.C #26
Santa Fe, NM 87505
t 505.918.8427 www.krupnickstudio.com

design office
landscape planning urbanism
DESIGN OFFICE
1300 Luisa street, Suite 24
Santa Fe, NM 87505
t 505.983.1415
www.do-designoffice.com

MARK W. WENTZEL NEW MEXICO (17012) LICENSED PROFESSIONAL ENGINEER
12-5-18

POJOAQUE VALLEY RECREATION COMPLEX

SANTA FE COUNTY

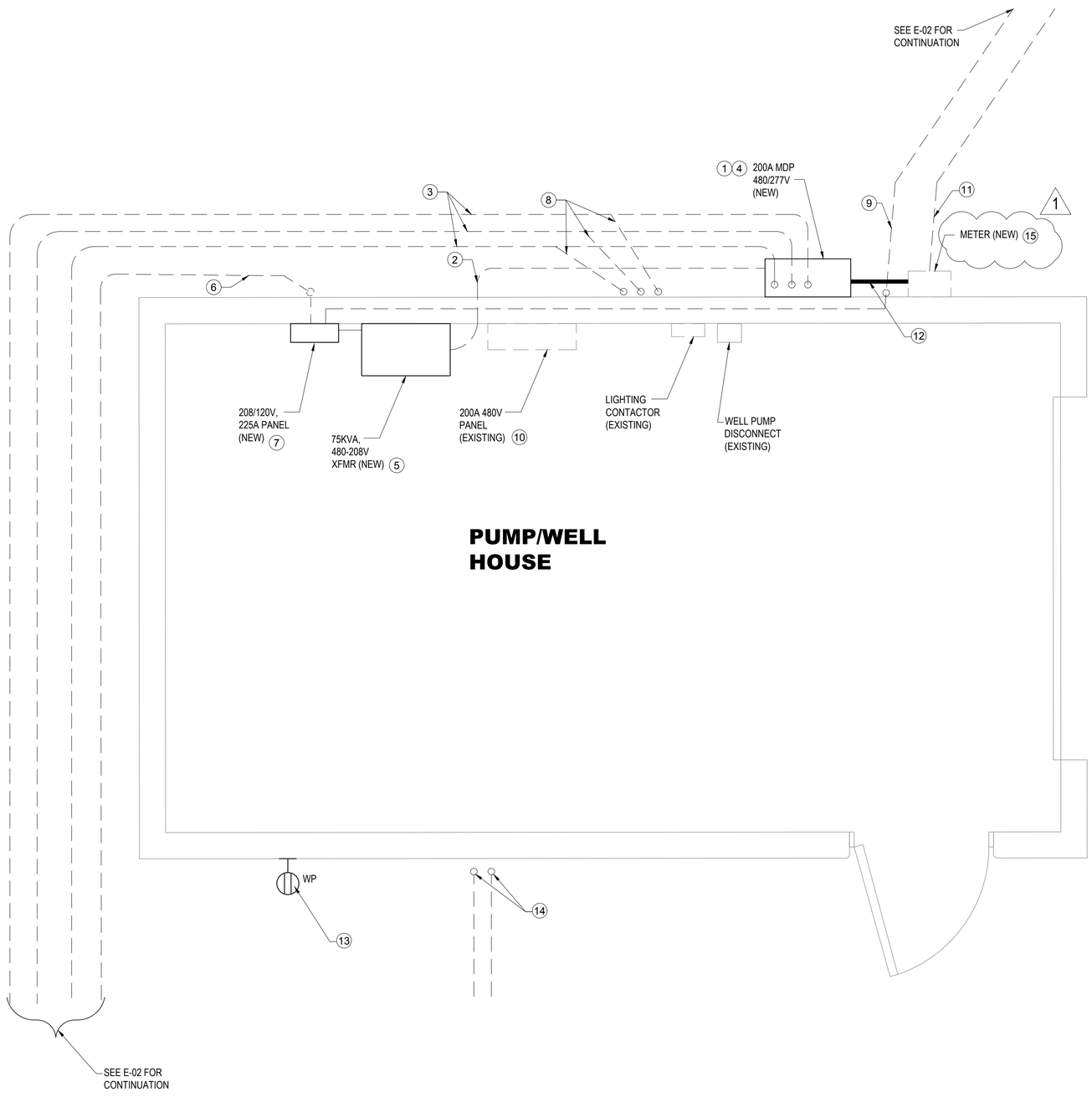
62 COUNTY ROAD 84 (OWEENGE ROAD)
SANTA FE, NEW MEXICO 87506

DRAWN BY PS / CH

DATE NOVEMBER 30, 2018

SHEET TITLE
ELECTRICAL SITE PLAN

SHEET NUMBER
E-02



PHASE 1 ELECTRICAL POWER PLAN

3/4" = 1'-0"

GENERAL NOTES:

1. IF THIS SHEET IS NOT 24"X36" USE GRAPHIC SCALE ACCORDINGLY.
2. REPAIR ANY BUILDING STUCCO AND EXTERIOR DAMAGE DURING REMOVAL PHASE SEE REMOVAL SHEET E-03.
3. REFERENCE RISER DIAGRAM SHEET E-05.
4. SIZE ALL WIRE PER NEC CODE.

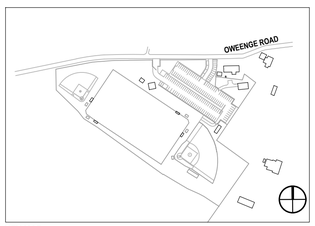
PHASE 1 KEYNOTES

1. INSTALL 200 AMP MAIN CIRCUIT BREAKER SERVICE ENTRANCE RATED, 277/480V, 3P MAIN DIST. PANEL.
2. INSTALL 1-1/2" RMC FROM MDP TO 75 KVA XFMR.
3. INSTALL 2" SCHEDULE 40 PVC CONDUIT TO LIGHT POLE LOCATIONS. SEE SHEET E-02.
4. ATTACH LAMINATED PANEL SCHEDULE, AND ELECTRICAL SITE PLAN TO SIDE OF PANEL DOOR.
5. INSTALL 3 PH, 480V, 208/120V 115°C RISE 75KVA XFMR INSIDE PUMP/WELL HOUSE.
6. INSTALL 1 1/4" SCHEDULE 40 PVC CONDUIT FROM NEW 208/120V PANEL TO FIRST JUNCTION BOX OUTSIDE BUILDING FOR A/V PANEL LOCATED AT SOFTBALL FIELD DUGOUT. SEE SHEET E-02.
7. INSTALL NEW 208/120V 225A MCB, 42 CIRCUIT PANEL BOARD.
8. INSTALL (3) 2" SCHEDULE 40 PVC CONDUITS FROM 480V PANEL TO FIRST JUNCTION BOX OUTSIDE BUILDING. SEE SHEET E-02. CONDUIT TO BE INSTALLED AT A MINIMUM OF 24" BELOW GRADE.
9. INSTALL 1" SCHEDULE 40 PVC CONDUIT FOR GATE OPENER. SEE SHEET E-02 FOR INFORMATION. CONDUIT TO BE INSTALLED AT A MINIMUM OF 24" BELOW GRADE.
10. EXISTING 480V PANEL SHALL HAVE THE INTERIOR REMOVED. BOX TO BE USED TO SPLICE EXISTING LIGHTING CIRCUITS FROM NEW 480V MDP VIA EXISTING LIGHTING CONTACTOR(S). CONTRACTOR TO PROVIDE A SCREWED ON COVER PLATE FOR JUNCTION BOX. 1
11. INSTALL 4" SCHEDULE 40 PVC CONDUIT FOR NEW UNDERGROUND FEED TO THE NEW POLE MOUNTED TRANSFORMER. CONDUIT TO BE INSTALLED AT A MINIMUM OF 36" BELOW GRADE. INSTALL RIDGID ELBOWS AT RISER TRANSITIONS FROM BELOW GRADE.
12. INSTALL 4" RIDGID METAL CONDUIT.
13. PROVIDE AND INSTALL NEW CIRCUIT BREAKER, CONDUIT, WIRING AND EXTERIOR GFCI RECEPTACLE WITH IN-USE COVER TO NEW 120/208V PANEL. COORDINATE LOCATION WITH OWNER REPRESENTATIVE.
14. INSTALL (2) 1-1/2" SCHEDULE 40 PVC CONDUIT FOR FUTURE SECURITY CAMERAS AT 24" BELOW GRADE. COORDINATE LOCATION FOR CONDUIT STUB-UP LOCATION WITH OWNER REPRESENTATIVE. 1
15. PROVIDE A NEW METER BASE FOR NEW ELECTRICAL METER. METER BASE SHALL ADHERE TO JMEC ELECTRICAL STANDARDS, 3-PHASE, 7 JAW, SELF-CONTAINED.

NORTH

0 1 2 3 4 5

3/4"=1'-0"



KEY MAP NTS

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MARK W. WENTZEL NEW MEX. CO. (17012) LICENSED PROFESSIONAL ENGINEER
12-5-18

DRAWN BY PS / CH

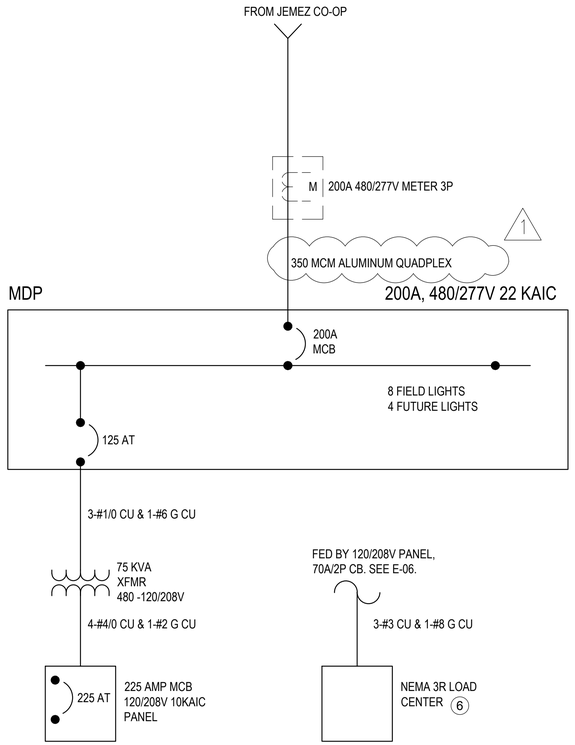
DATE NOVEMBER 30, 2018

SHEET TITLE

ELECTRICAL POWER PLAN

SHEET NUMBER

E-04



ONE-LINE DIAGRAM

SCALE: NONE

Available Fault Current Calculation

by John Sokolik Ver. 4.00

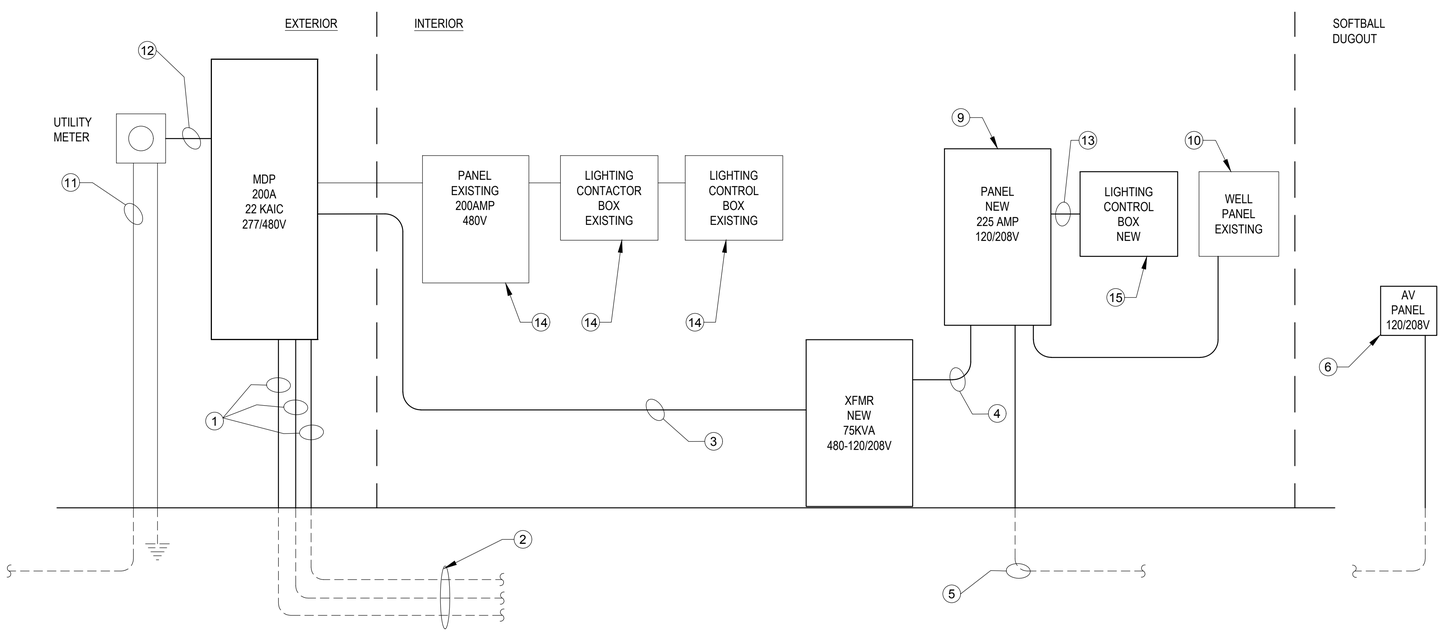
Utility Fault Current	0 amperes	kVA =	150	
		E =	480	
I = kVA x 1000 = trans. FLA / E x 1.732		trans. FLA =	180	
I_{sca} = **trans. FLA x 100 / transformer Z** =			180	
			2.2	%
I_{sca} = ampere short-circuit current RMS symmetrical.		I_{sca} =	8,201	amperes

Point to Point Method — Three Phase 480/277

	Length (distance)	L =	150	Aluminum in Nonmetallic Racew
'f' factor = **1.732 x L x I / N x C x E L-N**	(ASC)	I_{sca} =	8,201	
	# conductors per phase	N =	1	
	Phase conductor constant	C =	16,813	**Phase Conductor** 350 kcmil
	Volt Line to Line	E L - L =	**480**	Volt
		f =	0.264	
	Neutral conductor constant	C =	16,813	**Neutral Conductor** 350 kcmil
Multiplier	Volt Line to Neutral	E L - N =	**277**	Volt
		f =	0.528	
M = 1 / 1 + f	Line to Line	M =	0.791	
	Line to Neutral	M =	0.654	

Fault Current at Service Equipment

I_{sca} x M = fault current at terminals of main disconnect **L- L =**	**6,488**	**amperes**
I_{sca} x M = fault current at terminals of main disconnect **L- N =**	**5,366**	**amperes**



RISER DIAGRAM

SCALE: NONE

GENERAL NOTES:

1. IF THIS SHEET IS NOT 24"x36" USE GRAPHIC SCALE ACCORDINGLY.
2. ALL EQUIPMENT TO BE LABELED IN ACCORDANCE WITH NEC-OSHA STANDARD.
3. REFER TO SHEET E-01 FOR ELECTRICAL GENERAL NOTES, SYMBOL LEGEND AND ABBREVIATIONS.
4. ALL EQUIPMENT SHALL BE BONDED PER NEC CODE.
5. ALL CONDUIT ABOVE GRADE SHALL BE RMC OR EMT.
6. GROUNDING ELECTRODE INSTALLATION SHALL BE PER LOCAL, STATE, AND NEC CODE.
7. SIZE ALL WIRE PER NEC CODE.

PHASE 1 KEYNOTES

1. INSTALL 2" RIDGED METAL CONDUIT.
2. EACH LIGHTING POLE SHALL HAVE (1) 2" CONDUIT FROM THE NEAREST JUNCTION BOX TO THE LIGHT POLE BASE. MAIN ELECTRICAL ROUTING OF POWER WILL BE GROUPED IN 2" CONDUITS AND SEPARATED TO EACH LIGHT POLE, AS SHOWN ON SHEET E-02.
3. INSTALL 1-1/2" CONDUIT TO NEW 75KVA , 480V-208/120V TRANSFORMER.
4. INSTALL 2-1/2" LIQUIDTIGHT FLEXIBLE CONDUIT TO NEW 200A PANELBOARD.
5. INSTALL 1 1/2" SCHEDULE 40 PVC TO SOFTBALL FIELD DUGOUT FOR A/V OUTLET. SEE ELECTRICAL SITE PLAN E-01 FOR CONTINUATION OF CONDUIT.
6. INSTALL NEMA 3R LOAD CENTER WITH INTEGRATED 20/1 BREAKER FEEDING NEMA5-20 GFCI RECEPTACLE AND A 50/1 GFCI BREAKER FEEDING NEMA 14-50R INSIDE THE PANEL. COORDINATE PANEL PLACEMENT WITH OWNER PRIOR TO INSTALLATION.
7. NOT USED.
8. NOT USED.
9. INSTALL NEW 225 AMP MCB 208/120V PANEL. RECONNECT ALL CIRCUITS THAT WERE DISCONNECTED TO NEW PANEL AS SHOWN ON PHASE 1 AND PHASE 2 PANEL SCHEDULES, SHEETS E-07 AND E-08.
10. REFEED PUMP CONTROLLER TO NEW 120/208V PANEL.
11. INSTALL (1) 4" SCHEDULE 40 PVC CONDUIT FROM NEW POLE MOUNTED TRANSFORMER TO FEED NEW METER.
12. INSTALL 4" RIDGID METAL CONDUIT.

PHASE 2 KEYNOTES

13. INSTALL 1/2" EMT FOR LIGHTING CONTROL POWER.
14. REMOVE ELECTRICAL EQUIPMENT.
15. INSTALL NEW LIGHTING CONTROL BOX WITH REMOTE CONTROL CAPABILITY VIA CELLULAR SERVICE. TO CONTROL AND SCHEDULE NEW SPORTS FIELD LIGHTING. AIRMESH LIGHTING CONTROLLER IS COMPLETELY WIRELESS TO EACH LIGHT FIXTURE. THERE ARE NO PROVISIONS IN THE CONSTRUCTION PACKAGE FOR CONTROL WIRING TO ANY POLE LIGHTS. IF THIS LIGHTING CONTROLLER IS NOT USED, THEN IT IS THE CONTRACTORS RESPONSIBILITY TO ROUTE ALL CONTROL WIRING NECESSARY FOR A DIFFERENT CONTROLLER.

REVISIONS

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12-5-18

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DRAWN BY PS / CH
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SHEET TITLE
ELECTRICAL POWER DIAGRAMS

SHEET NUMBER
E-06