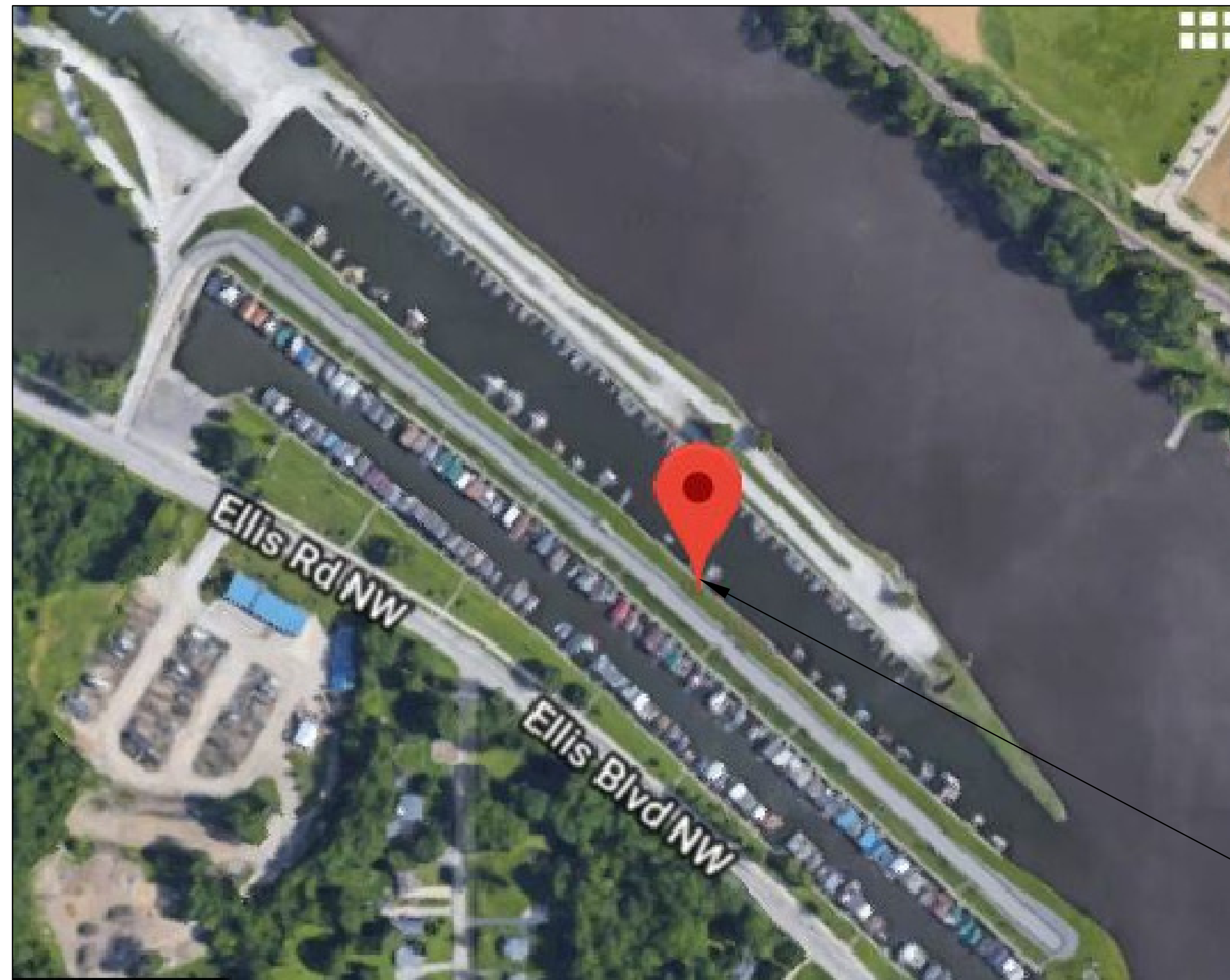


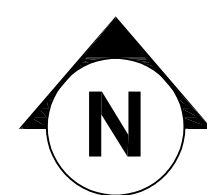
CITY OF CEDAR RAPIDS ELLIS HARBOR ELECTRICAL DISTRIBUTION PROJECT.

CEDAR RAPIDS, IOWA
CONTRACT # 332013-02

PROJECT LOCATION MAP



PROJECT
LOCATION



Cedar Rapids Parks & Recreation Department
This Document is Recommended for Filing with the
City Clerk

Director, Parks & Recreation Date

DRAWING INDEX		
SHEET	REV	TITLE
GENERAL		
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ELECTRICAL		
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E01	0	ELECTRICAL - DEMOLITION
E02	0	ELECTRICAL - NEW WORK
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E04	0	ELECTRICAL - DETAILS
E05	0	ELECTRICAL - DETAILS

Utility & Emergency Numbers

Parks & Recreation Department 319-286-5750
Police Department 319-286-5491
Fire Department 319-286-5200
Emergency 911
Alliant Energy 319-786-1912
Mid American Energy 319-298-5155
Water Department 319-286-5910
Qwest Communications 319-399-7600

Mayor: Bradley Hart
City Council

Tyler Olson
Susie Weinacht
Scott Overland
Scott Olson
Ann Poe
Martin Hoeger
Dale Todd
Ashley Vanorny



OWNER
CITY OF CEDAR RAPIDS
Facilities Maintenance Services
City of Cedar Rapids 500 15th Ave SW, Cedar
Rapids, Iowa 52404

ENGINEER OF RECORD:
IEI INNOVATIVE ENGINEERS, INC.
2871 Heinz Rd. Suite B, Iowa City, IA 52240
T 319.855.4115 | F 319.351.0070
www.InnovativeEngineersInc.com

**CITY OF CEDAR RAPIDS
ELLIS HARBOR ELECTRICAL DISTRIBUTION**

**CEDAR RAPIDS, IOWA
PROJECT # 332013-02**

DESIGNED BY: MNA
DRAWN BY: GVT
CHECKED BY: MNA
DOCUMENT DATE: 08-07-2018
PROJECT NO.: 18-101213
CLIENT NO.:

REVISIONS				
NO.	DATE	DESCRIPTION	BY	DWN
0	08-07-2018	OUT FOR BID DRAWINGS	MNA	GVT

**COVER SHEET AND
DRAWING INDEX**

SHEET: **G00** REV: **0**

PROFESSIONAL ENGINEER

MOHAMMED
N.
ABUHASAN
NO. 20081

IOWA

EXPIRES DEC. 31, 2019

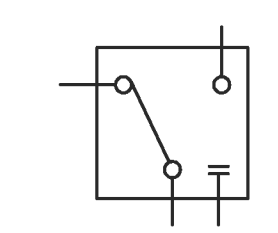

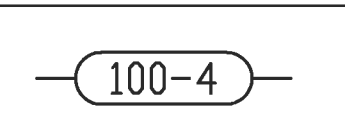
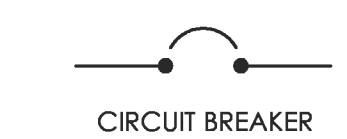




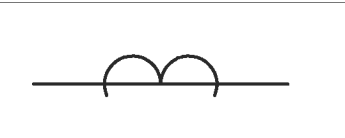
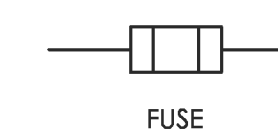
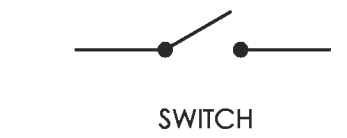
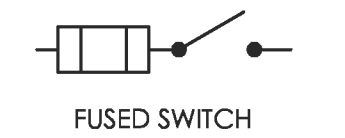



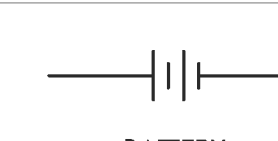

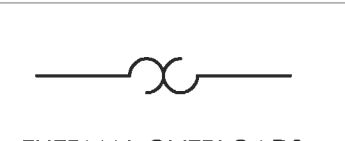



I HEREBY CERTIFY THAT THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION.

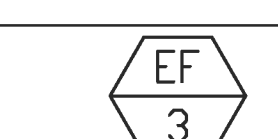
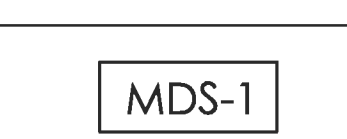
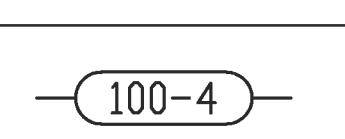






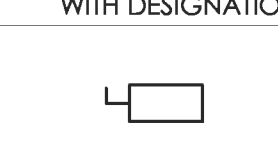

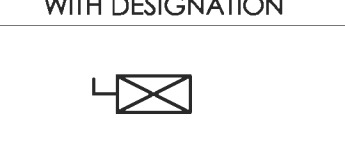



I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.



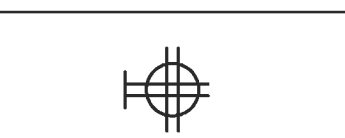


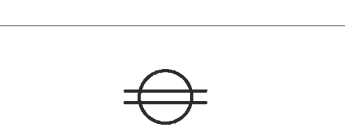




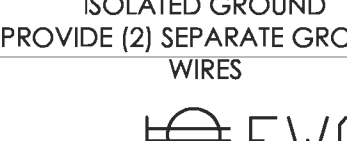


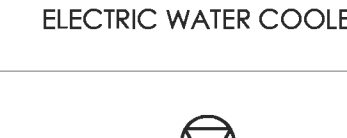

SIGNATURE: _____
NAME: MOHAMMED N. ABU-HASAN
DATE: 08/07/2018
LICENSE RENEWAL DATE: DEC. 31, 2019
PAGES OR DIVISIONS COVERED BY THIS CERTIFICATION: ALL G & E SHEETS

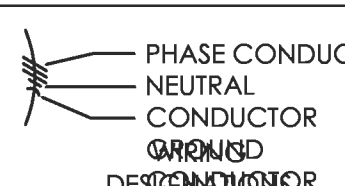
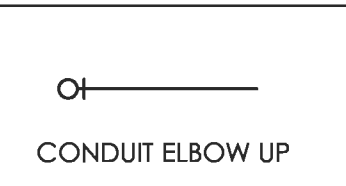

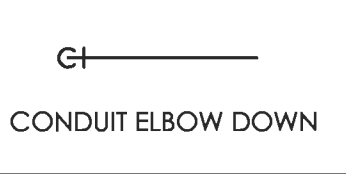



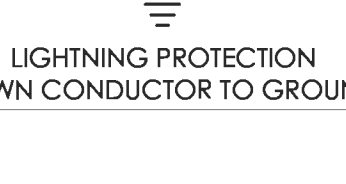
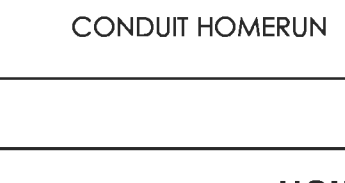
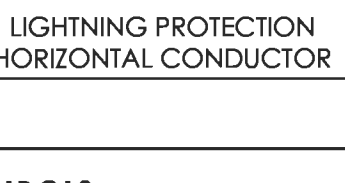
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NO.	DATE	DESCRIPTION	BY	DWN
0	08-07-2018	OUT FOR BID DRAWINGS	MNA	GVT

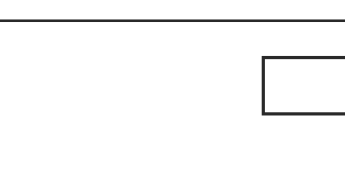
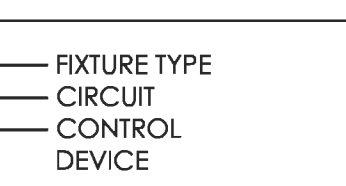
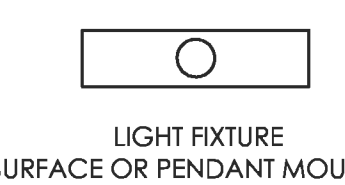
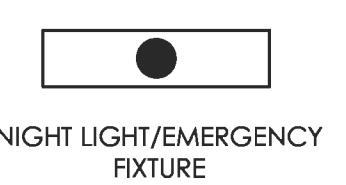

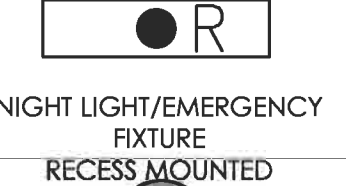




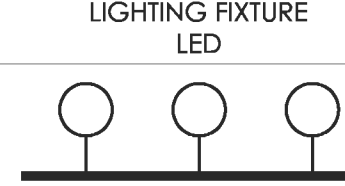
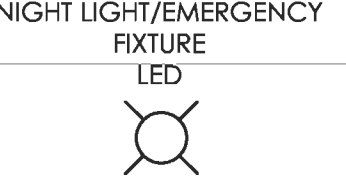

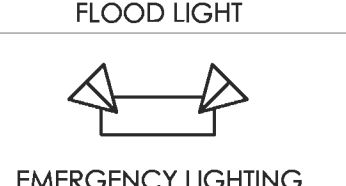
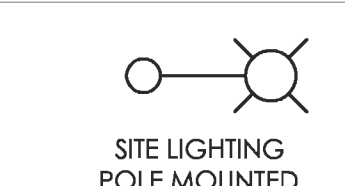



**ELECTRICAL-
SYMBOLS**




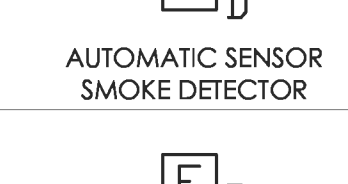
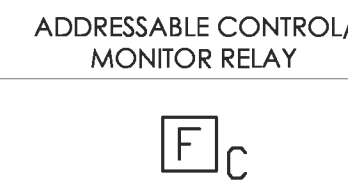





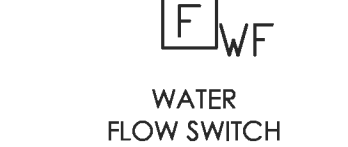

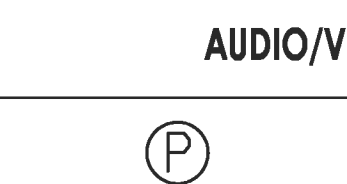
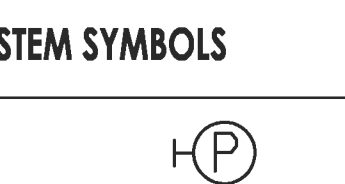
SINGLE WIRE DIAGRAM SYMBOLS		
 AUTOMATIC TRANSFER SWITCH	 ELECTRICAL EQUIPMENT WITH DESIGNATION	 FEEDER DESIGNATION
 CIRCUIT BREAKER	 CONTACTOR NORMALLY OPEN (NO)	 CONTACTOR NORMALLY CLOSED (NC)
 TRANSFORMER	 POTENTIAL TRANSFORMER	 CURRENT TRANSFORMER
 FUSE	 SWITCH	 FUSED SWITCH
 INCOMING SERVICE	 BUS BAR	 METER
 BATTERY	 MOTOR	 THERMAL OVERLOADS
 DELTA	 WYE	 GROUND



POWER SYSTEM SYMBOLS		
 MECHANICAL EQUIPMENT CONNECTION WITH DESIGNATION	 ELECTRICAL EQUIPMENT WITH DESIGNATION	 FEEDER DESIGNATION
 DISTRIBUTION PANEL WITH DESIGNATION	 BRANCH PANEL WITH DESIGNATION	 VARIABLE FREQUENCY DRIVE
 MOTOR WITH DESIGNATION	 GENERATOR SYSTEM WITH DESIGNATION	 TRANSFORMER WITH DESIGNATION
 DISCONNECT SWITCH	 MOTOR STARTER	 COMBINATION MOTOR STARTER/DISCONNECT SWITCH
 JUNCTION BOX	 FUME HOOD CONNECTION	 MANUAL MOTOR STARTER THERMAL TRIP SWITCH






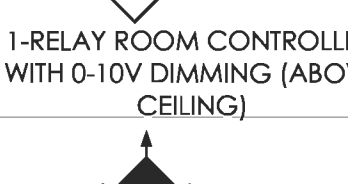
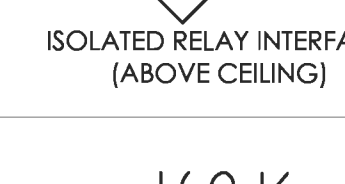
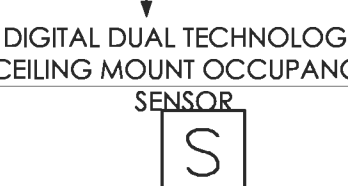
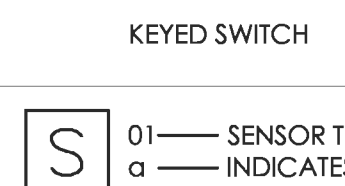
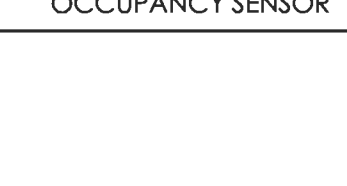
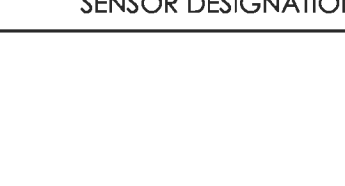
RECEPTACLE SYMBOLS		
 SIMPLEX RECEPTACLE	 DUPLIX RECEPTACLE	 QUADRUPLEX RECEPTACLE
 WEATHER PROOF	 DUPLIX RECEPTACLE ABOVE COUNTER	 DUPLIX RECEPTACLE CEILING MOUNTED
 GROUND FAULT CIRCUIT INTERRUPTER	 ISOLATED GROUND PROVIDE (2) SEPARATE GROUND WIRES	 TRANSIENT VOLTAGE SURGE SUPPRESSOR
 FLOOR BOX	 ELECTRIC WATER COOLER	 RECEPTACLES IN SURFACE RACEWAY
 RECEPTACLE	 RECEPTACLE	 RECEPTACLE

WIRING & RACEWAY SYMBOLS	
 PHASE CONDUCTOR NEUTRAL CONDUCTOR GROUND DESIGNATION	 CONDUIT ELBOW UP
 EXPOSED CONDUIT OR CONDUCTOR	 CONDUIT ELBOW DOWN
 CONCEALED CONDUIT OR CONDUCTOR	 LIGHTNING PROTECTION AIR TERMINAL
 CONCEALED CONDUIT OR CONDUCTOR BELOW FLOOR	 LIGHTNING PROTECTION DOWN CONDUCTOR TO GROUND
 CONDUIT HOMERUN	 LIGHTNING PROTECTION HORIZONTAL CONDUCTOR

LIGHT FIXTURE SYMBOLS	
 LIGHT FIXTURE DESIGNATIONS	 F1 — FIXTURE TYPE 23 — CIRCUIT α — CONTROL DEVICE
 LIGHT FIXTURE SURFACE OR PENDANT MOUNTED	 NIGHT LIGHT/EMERGENCY FIXTURE SURFACE OR PENDANT MOUNTED
 LIGHT FIXTURE RECESS MOUNTED	 NIGHT LIGHT/EMERGENCY FIXTURE RECESS MOUNTED
 LIGHT FIXTURE RECESS OR SURFACE MOUNTED	 NIGHT LIGHT/EMERGENCY FIXTURE RECESS OR SURFACE MOUNTED
 LIGHT FIXTURE SURFACE OR CHAIN MOUNTED	 NIGHT LIGHT/EMERGENCY FIXTURE SURFACE OR CHAIN MOUNTED
 LIGHTING FIXTURE LED	 NIGHT LIGHT/EMERGENCY FIXTURE LED
 TRACK LIGHTING HEADS AS SHOWN	 SITE LIGHTING FLOOD LIGHT
 EXIT SIGN FACES AND ARROWS AS SHOWN	 EMERGENCY LIGHTING W/ BATTERY PACK
 SITE LIGHTING POLE MOUNTED	 SITE LIGHTING WALL OR BUILDING MOUNTED

FIRE ALARM SYSTEM SYMBOLS	
 FIRE ALARM CONTROL PANEL	
 MANUAL PULL STATION	
 MANUAL PULL STATION SEVERE WEATHER	
 AUTOMATIC SENSOR SMOKE DETECTOR	
 ADDRESSABLE CONTROL/MONITOR RELAY	
 DOOR CLOSER	 MAGNETIC DOOR HOLD-OPEN PROVIDE CONTROL RELAY AND 120V OR 24V
 AUDIBLE ALARM SPEAKER	 FIRE ALARM CEILING SPEAKER
 VISUAL ALARM	
 AUDIBLE/VISUAL ALARM HORN	 AUDIBLE/VISUAL ALARM SPEAKER
 WATER FLOW SWITCH	 WATER VALVE POSITION SWITCH

AUDIO/VISUAL SYSTEM SYMBOLS	
 PROJECTOR OUTLET CEILING MOUNTED FLUSH (BACK BOX AND CONDUIT ONLY)	 PROJECTOR OUTLET WALL MOUNTED (BACK BOX AND CONDUIT ONLY)

LIGHTING CONTROLS SYMBOLS	
 SINGLE POLE (LOWER CASE LETTER INDICATES SWITCH LEG)	
 THREE WAY	 FOUR WAY
 DIGITAL DIMMING WALL SWITCH	 DIGITAL DUAL TECHNOLOGY CORNER MOUNT OCCUPANCY SENSOR
 1-RELAY ROOM CONTROLLER WITH 0-10V DIMMING (ABOVE CEILING)	 ISOLATED RELAY INTERFACE (ABOVE CEILING)
 DIGITAL DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR	 KEYED SWITCH
 OCCUPANCY SENSOR	 O — SENSOR TYPE INDICATES SWITCH LEG

ELECTRICAL ABBREVIATIONS		
A. AMP AMPERE	NEC NATIONAL ELECTRICAL CODE	
AIC AMPERE INTERRUPTING CAPACITY	NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.	
ATS AUTOMATIC TRANSFER SWITCH	NFSS NON-FUSED SAFETY SWITCH	
AV AUDIO - VISUAL	NL NIGHT LIGHT	
AP ACCESS PANEL	OL OVERLOADS	
C CONDUIT	P POLE	
CB CIRCUIT BREAKER	PF POWER FACTOR	
C/T CURRENT TRANSFORMER	PH PHASE	
DC DIRECT CURRENT	PNL PANEL	
DISC DISCONNECT	PP POWER POLE	
DIST DISTRIBUTION	PR PAIR PRI PRIMARY	
ECB ENCLOSED CIRCUIT BREAKER	P/T POTENTIAL TRANSFORMER	
EM EMERGENCY	RGs RIGID STEEL CONDUIT	
EMT ELECTRICAL METALLIC TUBING	S/N SOLID NEUTRAL	
EWC ELECTRIC WATER COOLER	SPKR SPEAKER	
EXP EXPLOSION PROOF	SP SPARE	
F FUSE	SW SWITCH	
FAL FIRE ALARM	SWBD SWITCHBOARD	
MTR MOTOR	SWGR SWITCHGEAR	
MV MEDIUM VOLTAGE		
NC NORMALLY CLOSED		
NO NORMALLY OPEN		

GENERAL ABBREVIATIONS		
AC ABOVE COUNTER	FLR FLOOR	
AFF ABOVE FINISHED FLOOR	INT INTERIOR	
AL ALUMINUM	NC NORMALLY CLOSED	
BC BELOW COUNTER	NO NORMALLY OPEN	
BTM BOTTOM	NTS NOT TO SCALE	
CMU CONCRETE MASONRY UNIT	OC ON CENTER	
CS CARBON STEEL	PVC POLYVINYL CHLORIDE	
CTR COUNTER	SF SQUARE FOOT	
CU COPPER	SS STAINLESS STEEL	
DN DOWN	TP TIE POINT	
EXT EXTERIOR	UP UP	

OWNER:
CITY OF CEDAR RAPIDS
Facilities Maintenance Services
City of Cedar Rapids 500 15th Ave SW, Cedar Rapids, Iowa 52404

ENGINEER OF RECORD:
IEI INNOVATIVE ENGINEERS, INC.
2871 Heinz Rd, Suite B, Iowa City, IA 52240
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**CITY OF CEDAR RAPIDS
ELLIS HARBOR ELECTRICAL DISTRIBUTION
CEDAR RAPIDS, IOWA
PROJECT # 332013-02**

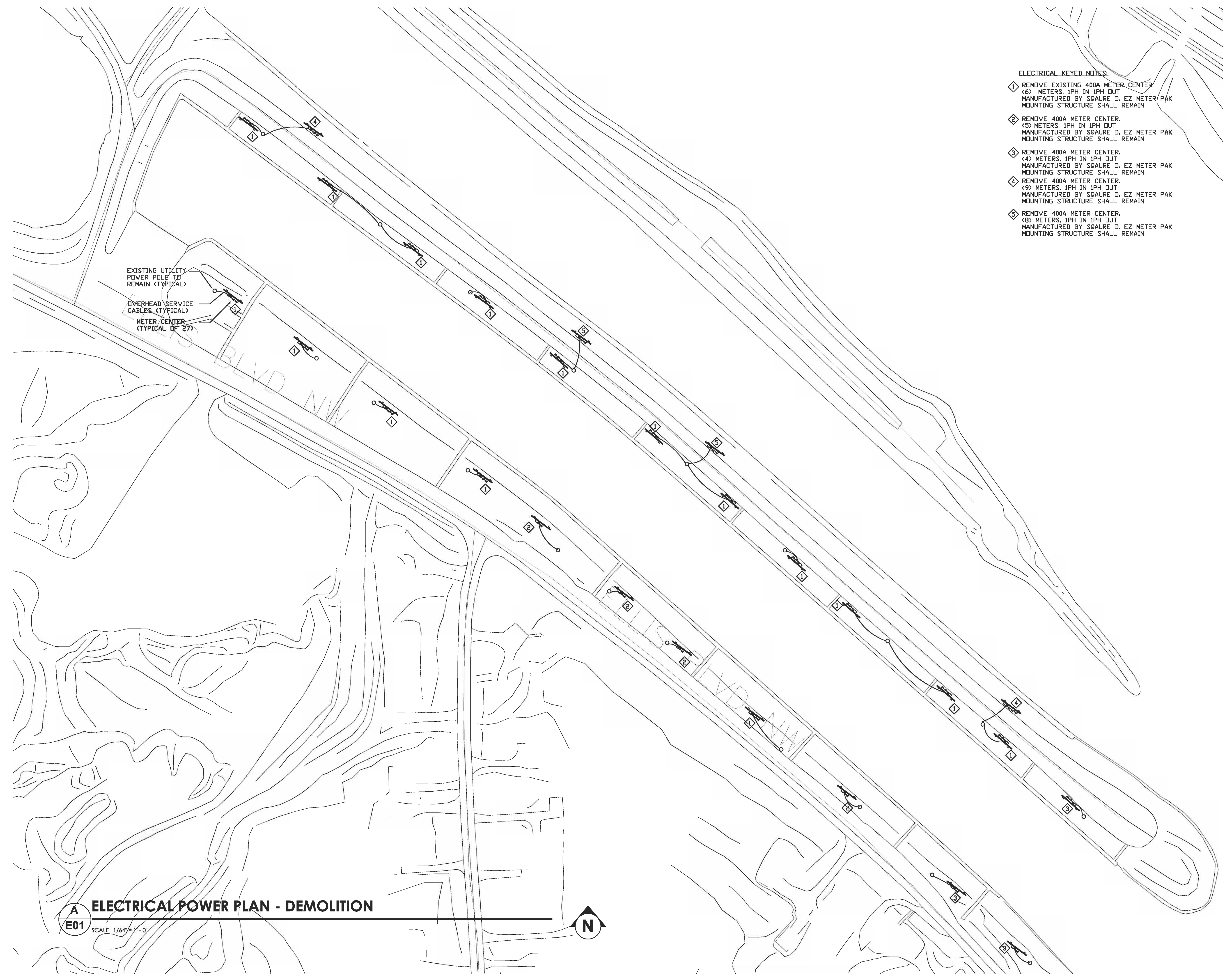
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DRAWN BY: GVT
CHECKED BY: MNA
DOCUMENT DATE: 08-07-2018
PROJECT NO.: 18-101213
CLIENT NO.:

REVISIONS				
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0	08-07-2018	OUT FOR BID DRAWINGS	MNA	GVT

**ELECTRICAL-
DEMOLITION**

SHEET: **E01** REV: **0**

- ELECTRICAL KEYED NOTES:**
- 1 REMOVE EXISTING 400A METER CENTER (6) METERS, 1PH IN 1PH OUT MANUFACTURED BY SQAURE D. EZ METER PAK MOUNTING STRUCTURE SHALL REMAIN.
 - 2 REMOVE 400A METER CENTER (5) METERS, 1PH IN 1PH OUT MANUFACTURED BY SQAURE D. EZ METER PAK MOUNTING STRUCTURE SHALL REMAIN.
 - 3 REMOVE 400A METER CENTER (4) METERS, 1PH IN 1PH OUT MANUFACTURED BY SQAURE D. EZ METER PAK MOUNTING STRUCTURE SHALL REMAIN.
 - 4 REMOVE 400A METER CENTER (9) METERS, 1PH IN 1PH OUT MANUFACTURED BY SQAURE D. EZ METER PAK MOUNTING STRUCTURE SHALL REMAIN.
 - 5 REMOVE 400A METER CENTER (8) METERS, 1PH IN 1PH OUT MANUFACTURED BY SQAURE D. EZ METER PAK MOUNTING STRUCTURE SHALL REMAIN.



A ELECTRICAL POWER PLAN - DEMOLITION
E01 SCALE 1/64" = 1'-0" 

OWNER:
CITY OF CEDAR RAPIDS
Facilities Maintenance Services
City of Cedar Rapids 500 15th Ave SW, Cedar Rapids, Iowa 52404

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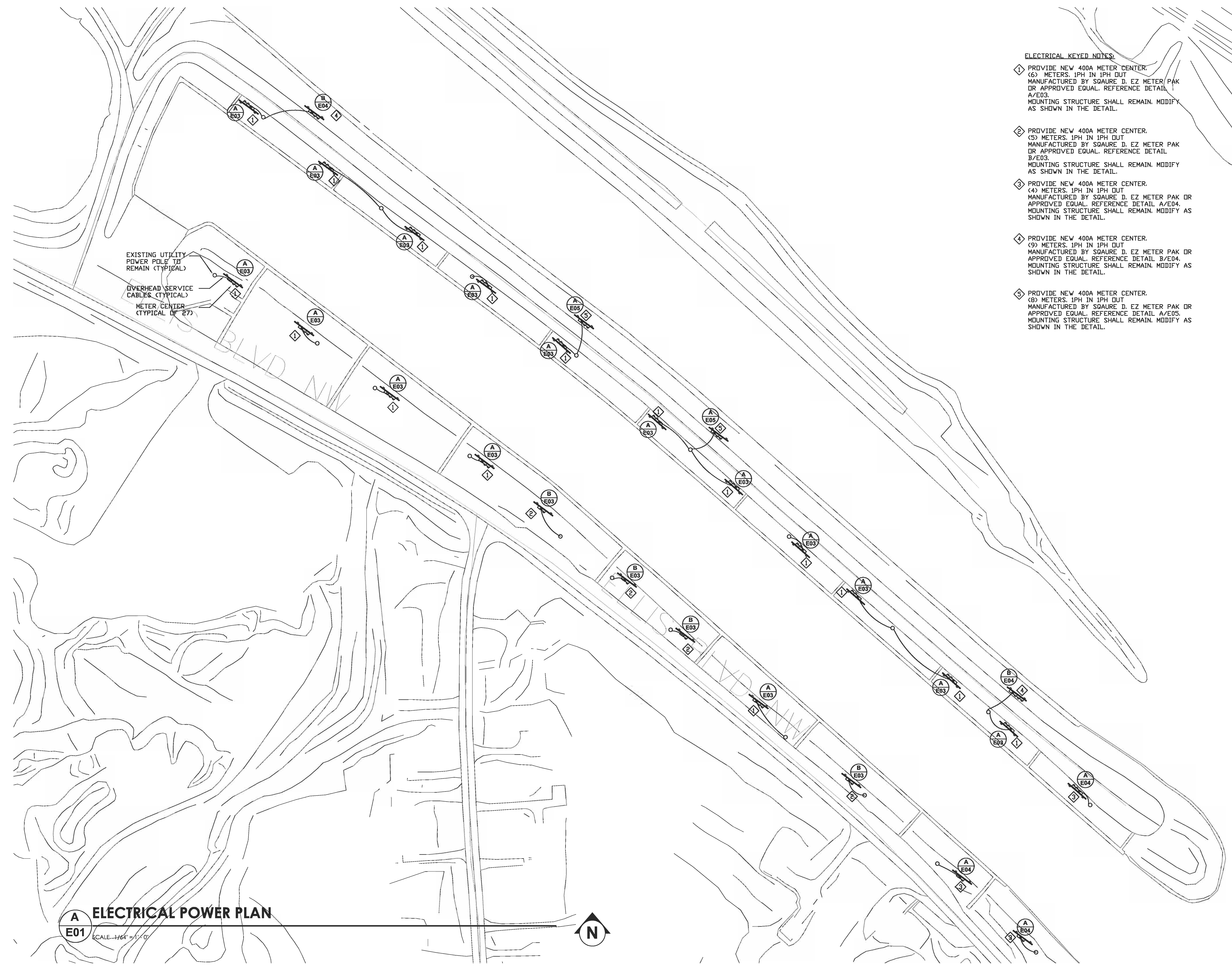
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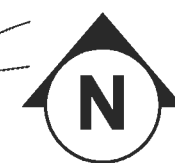
**ELECTRICAL-
NEW WORK**

SHEET: **E02** REV: **0**

- ELECTRICAL KEYED NOTES:**
- PROVIDE NEW 400A METER CENTER. (6) METERS, 1PH IN 1PH OUT MANUFACTURED BY SQAURE D. EZ METER PAK OR APPROVED EQUAL. REFERENCE DETAIL A/E03. MOUNTING STRUCTURE SHALL REMAIN. MODIFY AS SHOWN IN THE DETAIL.
 - PROVIDE NEW 400A METER CENTER. (5) METERS, 1PH IN 1PH OUT MANUFACTURED BY SQAURE D. EZ METER PAK OR APPROVED EQUAL. REFERENCE DETAIL B/E03. MOUNTING STRUCTURE SHALL REMAIN. MODIFY AS SHOWN IN THE DETAIL.
 - PROVIDE NEW 400A METER CENTER. (4) METERS, 1PH IN 1PH OUT MANUFACTURED BY SQAURE D. EZ METER PAK OR APPROVED EQUAL. REFERENCE DETAIL A/E04. MOUNTING STRUCTURE SHALL REMAIN. MODIFY AS SHOWN IN THE DETAIL.
 - PROVIDE NEW 400A METER CENTER. (9) METERS, 1PH IN 1PH OUT MANUFACTURED BY SQAURE D. EZ METER PAK OR APPROVED EQUAL. REFERENCE DETAIL B/E04. MOUNTING STRUCTURE SHALL REMAIN. MODIFY AS SHOWN IN THE DETAIL.
 - PROVIDE NEW 400A METER CENTER. (8) METERS, 1PH IN 1PH OUT MANUFACTURED BY SQAURE D. EZ METER PAK OR APPROVED EQUAL. REFERENCE DETAIL A/E05. MOUNTING STRUCTURE SHALL REMAIN. MODIFY AS SHOWN IN THE DETAIL.



A ELECTRICAL POWER PLAN
E01 SCALE: 1/64" = 1'-0"



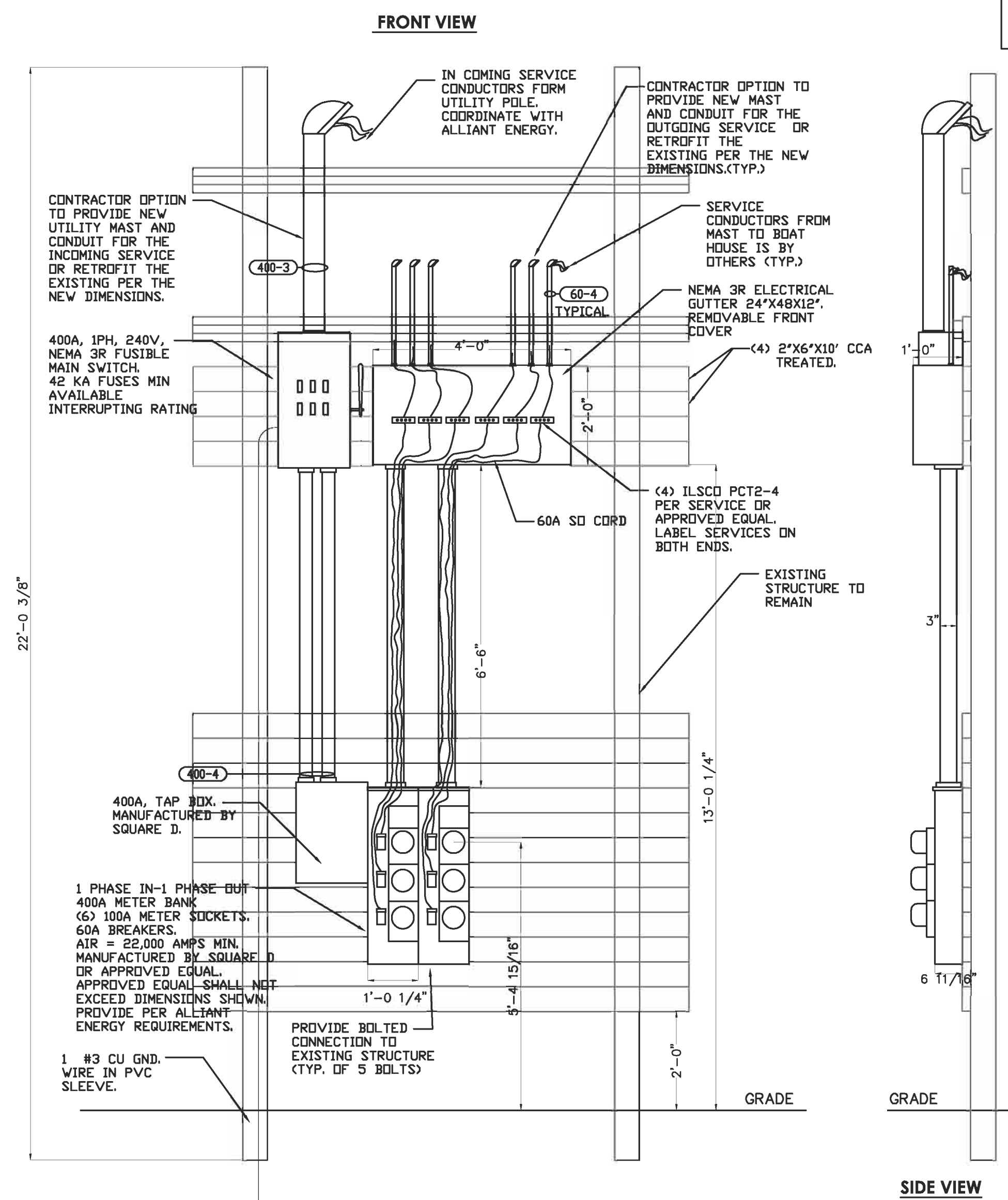
**CITY OF CEDAR RAPIDS
ELLIS HARBOR ELECTRICAL DISTRIBUTION
CEDAR RAPIDS, IOWA
PROJECT # 332013-02**

DESIGNED BY:	MNA
DRAWN BY:	GVT
CHECKED BY:	MNA
DOCUMENT DATE:	08-07-2018
PROJECT NO.:	18-101213
CLIENT NO.:	

REVISIONS				
NO.	DATE	DESCRIPTION	BY	DWN
0	08-07-2018	OUT FOR BID DRAWINGS	MNA	GVT

**ELECTRICAL-
DETAILS**

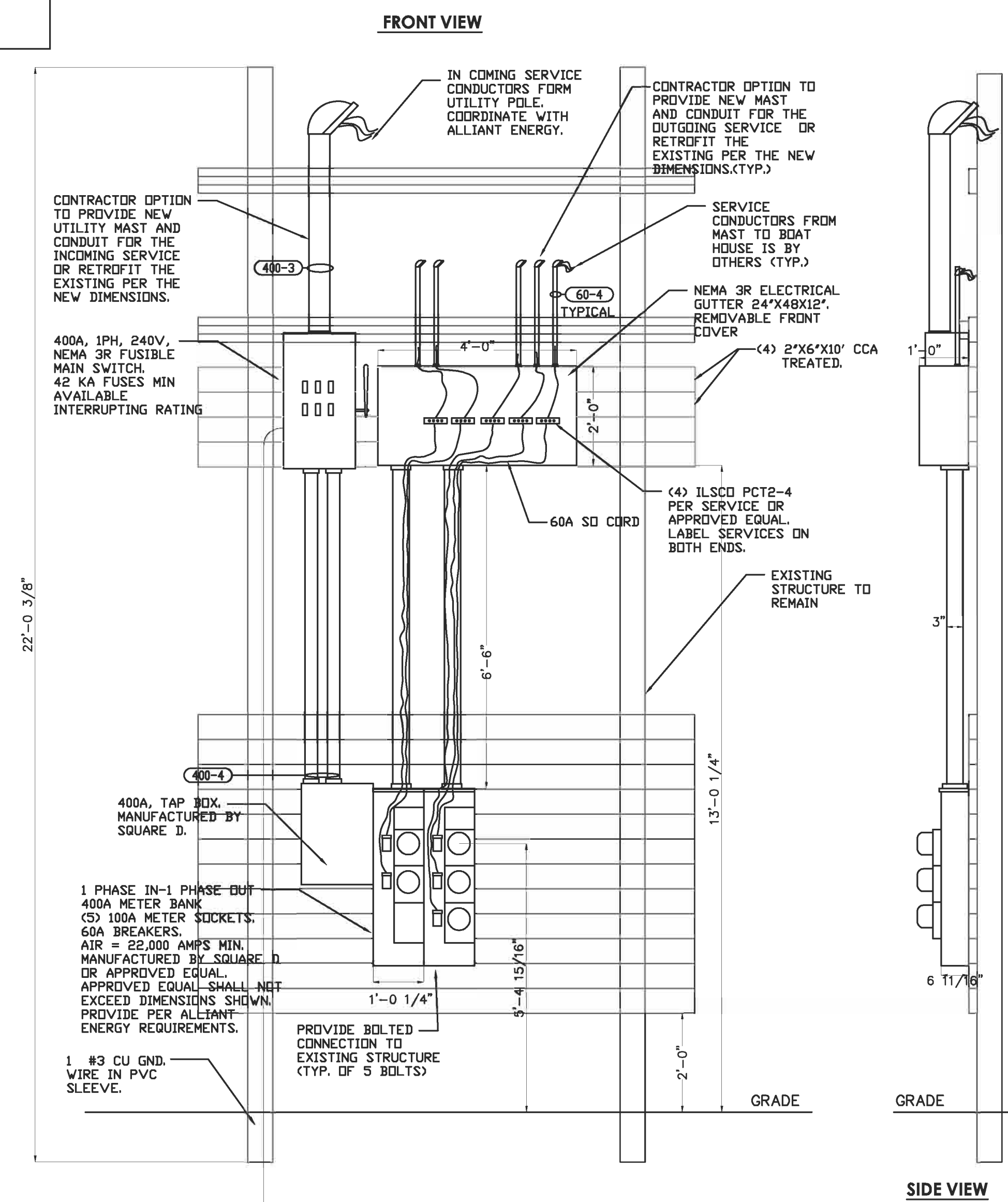
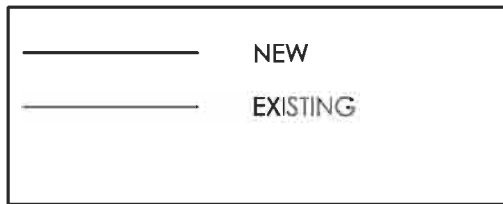
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A
E03 **NEW (6) METER PAK - OVERHEAD SERVICES**
SCALE: 1/2" = 1'-0"



EXISTING (6) METER PAK - OVERHEAD SERVICES
SCALE: NTS



B
E03 **NEW (5) METER PAK - OVERHEAD SERVICES**
SCALE: 1/2" = 1'-0"



EXISTING (5) METER PAK - OVERHEAD SERVICES
SCALE: NTS

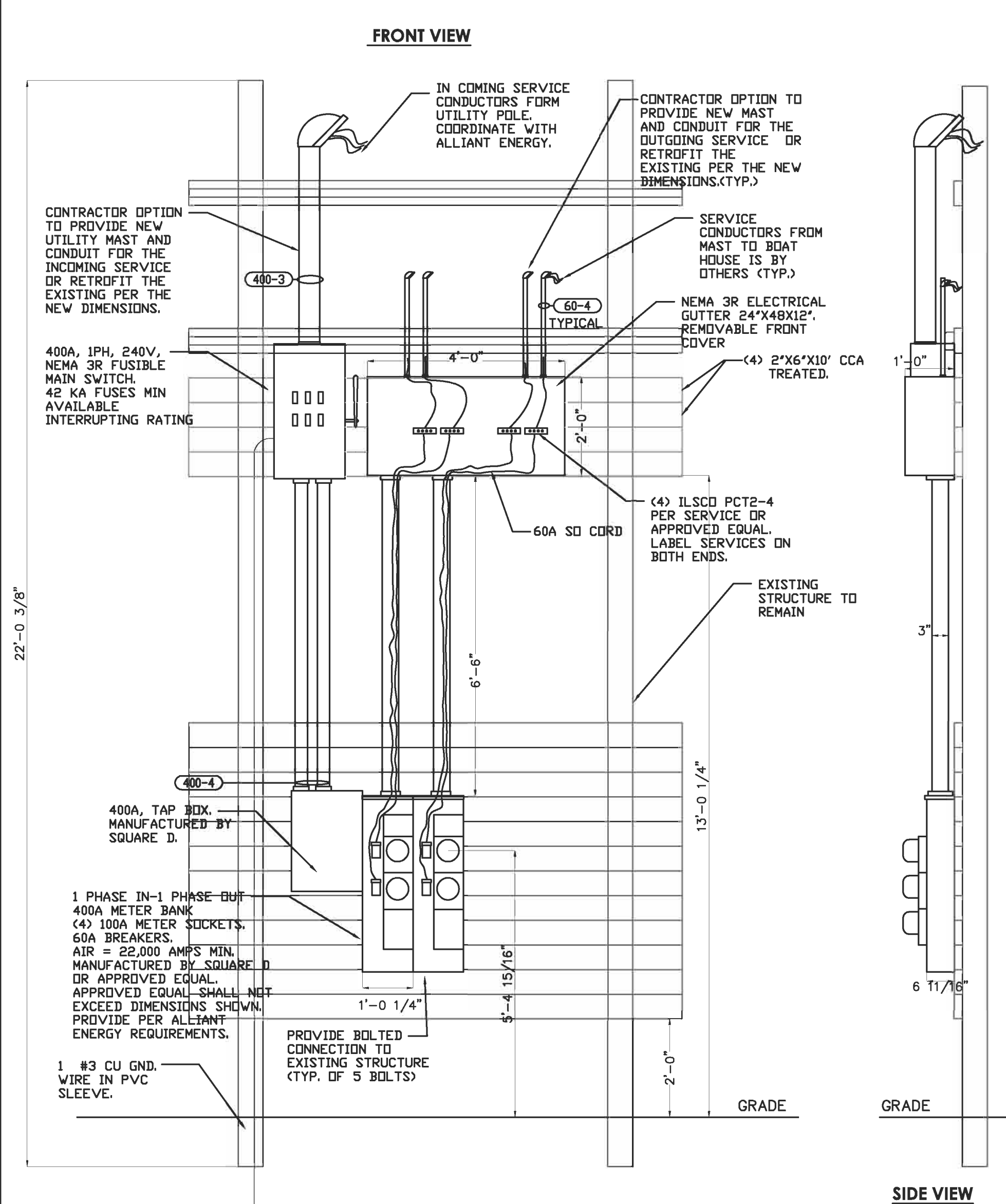
**CITY OF CEDAR RAPIDS
ELLIS HARBOR ELECTRICAL DISTRIBUTION
CEDAR RAPIDS, IOWA
PROJECT # 332013-02**

DESIGNED BY: MNA
DRAWN BY: GVT
CHECKED BY: MNA
DOCUMENT DATE: 08-07-2018
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REVISIONS				
NO.	DATE	DESCRIPTION	BY	DWN
0	08-07-2018	OUT FOR BID DRAWINGS	MNA	GVT

**ELECTRICAL-
DETAILS**

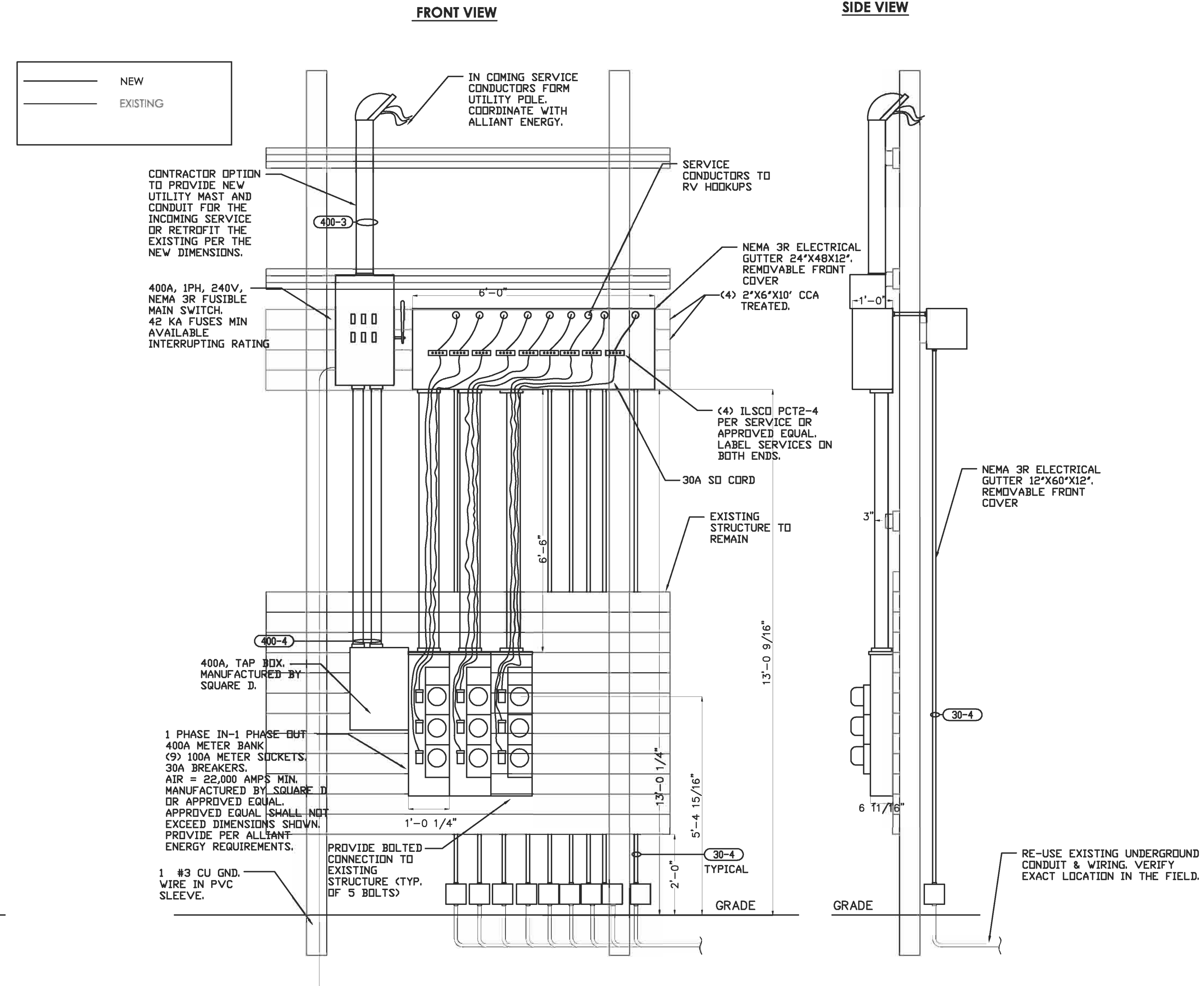
SHEET: **E04** REV: **0**



A NEW (4) METER PAK - OVERHEAD SERVICES
SCALE: 1/2" = 1'-0"



EXISTING (4) METER PAK - OVERHEAD SERVICES
SCALE: NTS



B NEW (9) METER PAK - UNDERGROUND SERVICES
SCALE: 1/2" = 1'-0"



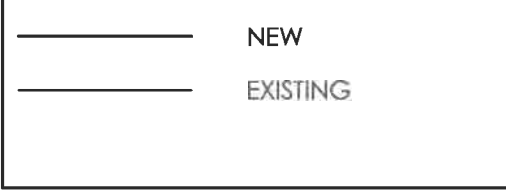
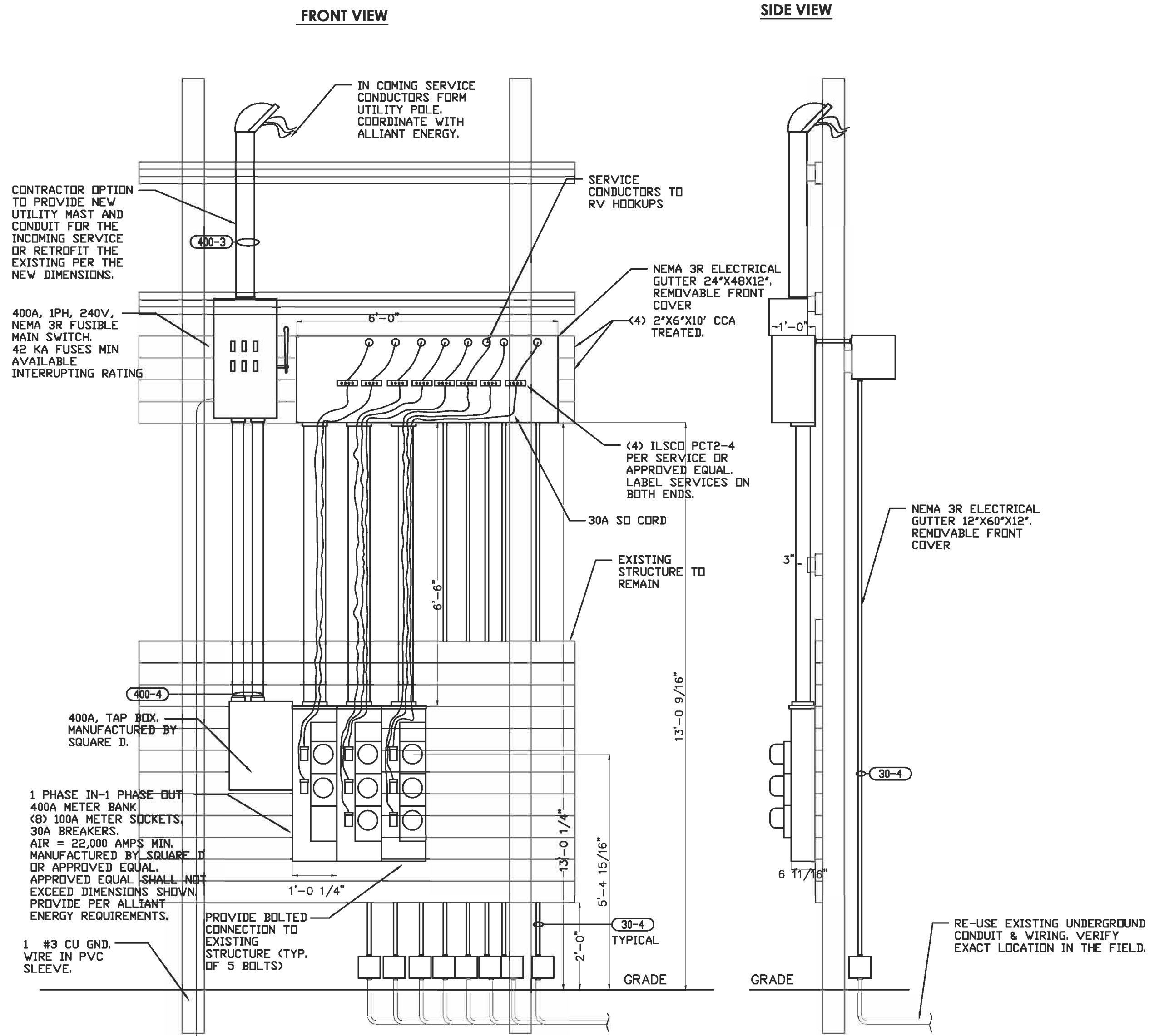
EXISTING (9) METER PAK - UNDERGROUND SERVICES
SCALE: NTS



OR

REVISIONS				
NO.	DATE	DESCRIPTION	BY	DWN
0	08-07-2018	OUT FOR BID DRAWINGS	MNA	GVT

**ELECTRICAL-
DETAILS**



FEEDER SCHEDULE				
MARK	PHASE CONDUCTORS	NEUTRAL CONDUCTORS	GROUND CONDUCTORS	SETS & SIZE CONDUIT
400-3	2 #600 MCM	1# 600 MCM	-	(1) 3"
400-4	2 #3/0	1# 3/0	#2	(2) 2"
60-4	2 #6	1# 6	#10	(1) 1"
30-4	2 #8	1# 8	#10	(1) 1"

COORDINATE SERVICE REQUIREMENTS WITH ALLIANT ENERGY REPRESENTATIVE.
KORI KAISER
1001 SHAVERY ROAD NE
CEDAR RAPIDS, IA 52402
(T) 319-786-1908

GENERAL ELECTRICAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (N.E.C.) AND GOVERNING MUNICIPAL, STATE AND LOCAL CODES. ALL MATERIAL SHALL BE NEW AND SHALL BEAR THE U.L. LABEL WHERE APPLICABLE.
- CONTRACTOR SHALL MAKE ALL NECESSARY CUTTING AND DO ALL THE REPATCHING AS NECESSARY FOR THE PROPER EXECUTION OF THIS WORK.
- AFTER COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS.
- WHERE ELECTRICAL CONDUCTORS ARE INSTALLED IN CONDUIT, THE CONDUIT SHALL COMPLY WITH THE N.E.C. REQUIREMENTS.
- ALL CONDUCTOR SHALL BE COPPER. NO CONDUCTOR SHALL BE SMALLER THAN #12 AWG AND SHALL BE RATED FOR 600VOLTS THWN INSULATION. INSTALL A GROUNDING CONDUCTOR WITH ALL CIRCUITS, UNLESS NOTED OTHERWISE, SIZED PER N.E.C.250-122.
- VERIFY BREAKER AND CORRESPONDING WIRE SIZES FOR ALL ELECTRICAL EQUIPMENT. DONOT ORDER MATERIAL BEFORE VERIFYING BREAKER & WIRE SIZE. REPORT ANY DISCREPANCY IMMEDIATELY TO THE ENGINEER OF RECORD.
- VERIFY AVAILABLE INTERRUPTING CURRENT(AIC) WITH POWER COMPANY. EQUIPMENT AIC RATING MUST BE LARGER THAN THE POWER COMPANY AIC OR MUST BE PROTECTED ON THE LINE SIDE WITH A CURRENT LIMITING DEVICE.
- ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE ANCHORED TO COMPLY WITH LOCAL CODE FOR WIND RESISTANCE.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY THE OWNER.
- LOAD DATA IS BASED ON INFORMATION GIVEN ENGINEER AT TIME OF DESIGN. VERIFY ALL EQUIPMENT AND PANEL SIZES BEFORE ORDERING AND BEFORE INSTALLATION.
- PROVIDE SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT PHASE CONDUCTOR.

NEW (9) METER PAK - UNDERGROUND SERVICES

SCALE: 1/2"=1'-0"



EXISTING (8) METER PAK - UNDERGROUND SERVICES

SCALE: NTS