



CITY OF ANAMOSA

CITY COUNCIL AGENDA – REGULAR SESSION

MONDAY, JULY 12, 2021 – 6:00 P.M.
ANAMOSA LIBRARY & LEARNING CENTER (VIA ZOOM)
600 EAST 1ST STREET, ANAMOSA, IA 52205

Zoom Meeting Link

[https://us02web.zoom.us/j/ 84314971993](https://us02web.zoom.us/j/84314971993)

Meeting ID: 843 1497 1993

Passcode: Anamosa

Join by Telephone

+1 312 626 6799

Meeting ID: 843 1497 1993

Passcode 5548079

If you wish to address the City Council, please use the “raise your hand” feature or comment indicating such. Once the Mayor has opened the issue for public comment, you will be called on and your microphone will be turned on. Before speaking, please state your name and address. Each speaker is limited to five (5) minutes per agenda item and is expected to refrain from the use of profane, obscene, or slanderous language.

1.0) ROLL CALL

2.0) PLEDGE OF ALLEGIANCE

3.0) APPROVAL OF AGENDA

4.0) MOTION TO APPROVE THE MINUTES FROM THE FOLLOWING MEETINGS:

4.1) June 28, 2021 – Regular City Council Meeting

5.0) PUBLIC HEARINGS: NONE

6.0) PROCLAMATIONS: NONE

7.0) OLD BUSINESS:

7.1) **RAGBRAI COMMITTEE UPDATE.**

8.0) NEW BUSINESS

8.1) **REVIEW AND APPROVAL OF PLANS AND SPECS FOR THE WELL #6 PROJECT AND PLACE THESE DOCUMENTS ON FILE.**

8.2) **RESOLUTION SETTING A PUBLIC HEARING DATE OF AUGUST 23, 2021 AT 6PM AT THE ANAMOSA LIBRARY AND LEARNING CENTER AND VIA ZOOM ON PROPOSED PLANS AND SPECIFICATIONS, PROPOSED FORM OF CONTRACT AND ESTIMATE OF COSTS FOR THE ANAMOSA WELL #6 PROJECT AND THE TAKING OF BIDS FOR SUCH WORK . **ROLL VOTE.****

8.3) **REVIEW AND APPROVAL OF AN EXTENDED OUTDOOR SERVICE AREA REQUEST FOR THE ANAMOSA BOWLING CENTER LIQUOR LICENSE ON JULY 29, 2021 FOR RAGBRAI EVENT.**

- 8.4) **RESOLUTION** APPROVING THE HIRING AND SETTING SALARIES OF SEASONAL PART TIME EMPLOYEES FOR THE PARKS AND RECREATION DEPARTMENT FOR THE 2021 SUMMER SEASON. **ROLL VOTE.**
- 8.5) **RESOLUTION** SETTING DATE FOR PUBLIC HEARING ON THE APPLICATION FOR COMMUNITY DEVELOPMENT BLOCK GRANT FUNDS FOR HOUSING REHABILITATION FOR JULY 26, 2021 AT 6PM AT THE ANAMOSA LIBRARY AND LEARNING CENTER. **ROLL VOTE.**
- 8.6) **RESOLUTION** SETTING SALARY FOR UTILITY BILLING CLERK. **ROLL VOTE.**
- 8.7) **FIRST READING** OF AN ORDINANCE AMENDING SECTION 95.06 OF THE CODE OF ORDINANCES OF THE CITY OF ANAMOSA, IOWA, AND ADDING SECTION 90.10(3) TO REQUIRE ANNEXATION AS A CONDITION FOR CONNECTION TO THE CITY'S SANITARY SEWER SERVICE AND WATERWORKS SYSTEMS. **ROLL VOTE.**
 - 1. POSSIBLE MOTION TO WAIVE STATUTORY RULE FOR SECOND READING OF ORDINANCE
 - 2. POSSIBLE MOTION TO GIVE FINAL CONSIDERATION AND ADOPTION OF ORDINANCE
- 8.8) **REVIEW** AND APPROVAL OF NEW LIQUOR LICENSE FOR LAS BRASAS RESTAURANT
- 8.9) **REVIEW** AND APPROVAL OF CURRENT BILLS
- 9.0) **CITY ADMINISTRATOR'S REPORT:**
- 10.0) **MAYOR AND COUNCIL REPORTS:**
 - 10.1) MAYOR'S REPORT
 - 10.2) COUNCIL REPORTS
- 11.0) **PUBLIC COMMENT FOR ITEMS NOT ON THE AGENDA**
- 12.0) **ADJOURNMENT**

STATEMENT OF COUNCIL PROCEEDINGS

June 28, 2021

The City Council of the City of Anamosa met in Regular Session June 28, 2021 at the Anamosa Library and Learning Center and via Zoom at 6:00 p.m. with Mayor Rod Smith presiding. The following Council Members were present: John Machart, Rich Crump, Jeff Stout, Kay Smith, Alan Zumbach, and Galen Capron. Absent: none. Also present were Beth Brincks, City Administrator/Clerk; Rebecca Vernon, Library Director and Jeremiah Hoyt, Police Chief. Iowa Code Chapter 21, as interpreted, permits public meetings to be held electronically.

Mayor Rod Smith called the meeting to order at 6:00 p.m. Roll call was taken with a quorum present.

Pledge of Allegiance.

Director Vernon gave some brief instructions on use of Zoom and how to participate in the meeting.

Motion by Crump, second by Zumbach to approve the agenda. Ayes: all. Nays: none. Motion carried.

Motion by Stout, second by Zumbach to approve the minutes of the June 14, 2021 Regular City Council meeting. Ayes: all. Nays: none. Motion carried.

Derek Lumsden gave an overview and update of the CDBG - Downtown Façade Project. The project is on schedule to be complete in November. August and September will be the heaviest work months. Demolition phase is first to insure accurate measurements and verify supporting structures are sound.

Tim Wallace from Snyder and Associates gave a monthly report on various City projects. Wallace included a report and design illustrations for the HWY 151 Grade Separation project. Roundabout options and trail connections were discussed. Next steps will be to hold a public meeting for the project and acquire right of way. The Flow EQ and Phase II 2nd Street Lift Station projects will be moving forward as well.

Motion by Crump, second by Machart to approve continuing to hold meetings at the Library and via Zoom until the end of 2021. Ayes: all. Nays: none. Motion carried.

The Mayor opened the appeal hearing for the Vicious Dog Removal Order that had been issued to Alisha and Ryan Pierson. Alisha Pierson offered her opening statement and grounds for appeal. She thanked the Council for hearing their appeal. City Attorney O'Connell gave the opening statement and evidence of the case on behalf of the City. Council deliberated and while sympathetic to the dog's owners the code must be upheld. Motion by Capron, second by Crump to uphold the removal order as set out by the Anamosa Police Department. Roll vote. Ayes: Capron, Stout, Crump, Smith, Machart, and Zumbach. Nays: none. Motion carried.

Kay Smith, City Council Library Board Liaison, gave an overview of the desire of the Library Board to place a levy question on the next City election ballot. She stated that the 27 cent levy will be used for programming, staff, building maintenance, and technology. The levy will run for an indeterminate length of time. The library provides the citizens with many services.

Motion by Crump, second by Smith to approve Resolution 2021-35 setting salaries with a 3% increase for Fiscal Year 2021-22 for employees of the City of Anamosa unless set by contract or board. Roll vote. Ayes: Crump, Smith, Capron, Stout, Zumbach, and Machart. Nays: none. Motion carried.

Motion by Smith, second by Zumbach to approve the street closure request by Tucker's Tavern on July 29, 2021 for RAGBRAI. Ayes: all. Nays: none. Motion carried.

Motion by Stout, second by Crump to approve extended outdoor service area for Tucker's Tavern on July 29, 2021 for RAGBRAI. Ayes: all. Nays: none. Motion carried.

Motion by Crump, second by Stout to approve the street closure request for July 3rd and/or 4th for the Rotary July 4th Fireworks display. Ayes: all. Nays: none. Motion carried.

Motion by Crump, second by Machart approving Resolution 2021-36 setting the date of July 26, 2021 at 6:00 pm for Public Hearing on designation of the Expanded Anamosa Corridor Urban Renewal Area and on the Urban Renewal Plan Amendment. Roll vote. Ayes: Capron, Stout, Crump, Smith, Machart, and Zumbach. Nays: none. Motion carried.

Motion by Crump, second by Smith to approve Resolution 2021-37 deleting property from the Northeast Industrial Urban Renewal Area. Roll vote. Ayes: Crump, Capron, Smith, Stout, Zumbach, and Machart. Nays: none. Motion carried.

Motion by Smith, second by Crump to approve the first reading of Ordinance 947 deleting property from the Tax Increment Financing District for the Northeast Industrial Area of the City of Anamosa pursuant to section 403.19 of the Code of Iowa. Roll vote. Ayes: Capron, Smith, Stout, Crump, Machart, and Zumbach. Nays: none. Motion carried.

Motion by Crump, second by Zumbach to waive the statutory rule for a second reading of Ordinance 947. Roll Vote. Ayes: Zumbach, Stout, Smith, Machart, Capron, and Crump. Nays: none. Motion carried.

Motion by Smith, second by Crump to give Ordinance 947 final consideration and adoption. Roll vote. Ayes: Crump, Zumbach, Stout, Capron, Smith, and Machart. Nays: none. Motion carried.

Motion by Smith, second by Machart to approve cigarette permits for Giggle Juice Liquor Station, Tapken's Convenience, Fareway Stores #166, Wal-Mart Store #646, Casey's Stores #2908 and #2690, and Dollar General Store # 3685. Ayes: all. Nays: none. Motion carried.

Motion by Stout, second by Crump to approve the Liquor License for Casey's Store #2908. Ayes: all. Nays: none. Motion carried.

Motion by Zumbach, to approve the current bills, second by Crump. Ayes: all. Nays: none. Motion carried.

City Administrators Report: Brincks stated that the City has received a TEAP Grant for a traffic study at the 5-way intersection. The study will be completed by the IDOT and HR Green. The housing rehab program has received a few applications. It is open until we have at least 6 applicants. We are accepting applications for a Wastewater Operator opening until July 6, 2021. We have one application to date.

Mayor and Council Reports: Smith reported that the Library Board met and discussed levys she reported on earlier in the meeting. Stout reported that the slide at the pool was back in operation and patrons were lined up to use it.

There were no Public comments for items not on the agenda.

Motion by Crump, second by Machart to adjourn. Ayes: all. Nays: none. Motion Carried.
Meeting adjourned at 7:58pm.

Rod Smith, Mayor

ATTEST:

Beth Brincks, City Clerk

CIVIL LEGEND

	BENCHMARK, CONTROL POINT, ELEVATION INDICATOR		1050	EXISTING MAJOR CONTOUR
	CONCRETE MONUMENT		1049	EXISTING MINOR CONTOUR
	IRON PIN FOUND		ESMT-PERM	EXISTING PERMANENT EASEMENT
	IRON PIN SET			EXISTING TEMPORARY EASEMENT
	OPEN PIPE			EXISTING FENCE
	ROW RAIL			EXISTING GRAVEL SURFACE
	SECTION CORNER			EXISTING LOT LINE
	CHISELED X			EXISTING SECTION LINE
	AREA INTAKE		UGTV	EXISTING UNDERGROUD TELEVISION
	FIRE HYDRANT		OHE	EXISTING OVERHEAD ELECTRIC
	GUY WIRE		UGE	EXISTING UNDERGROUND ELECTRIC
	MAILBOX		FO	EXISTING FIBER OPTIC
	POWERPOLE		GAS	EXISTING GAS
	CONIFEROUS TREE		SAN	EXISTING SANITARY SEWER
	DECIDUOUS TREE		ST	EXISTING STORM SEWER
	CORNER MONUMENT			EXISTING CULVERT
	BEEHIVE INTAKE		UGT	EXIST UNDERGROUND TELEPHONE
	CABLE BOX		TSIG	EXISTING TRAFFIC SIGNALING
	CLEAN OUT		W	EXISTING WATER
	ELECTRIC METER			EXISTING RR
	ELECTRIC BOX			SUBDRAIN
	PHONE BOOTH		1041	MINOR CONTOUR
	GAS METER		1045	MAJOR CONTOUR
	CURB INTAKE		ESMT-PERM	PERMANENT EASEMENT
	HANDICAP INTAKE			TEMPORARY EASEMENT
	LIGHT POLE			FLOOD PLAIN
	SANITARY MANHOLE			FLOOD WAY
	MONITORING WELL			FENCE
	POST			GRADING LIMITS
	RAILROAD SIGN			CONSTRUCTION LIMITS
	SATELLITE DISH		SAN	SANITARY SEWER
	SIGN			SILT FENCE
	SIGN		ST	STORM SEWER
	SOIL BORING		ROW	RIGHT OF WAY
	TREE STUMP			SHEET PILE
	TELEPHONE BOX		W	WATER LINE
	TELEPHONE PEDESTAL		WETL	WETLAND
	TRAFFIC LIGHT			EDGE OF GRAVEL
	TRAFFIC SIGNAL			
	TRAFFIC SIGN			
	YARD LIGHT			
	BURIED VALVE			
	BURIED WATER VALVE			
	REMOVE TREE			
	PRESERVE AND PROTECT EX. TREE			
	REMOVE TREE BY OTHERS			
	BOLLARD			
	EASEMENT			
	TEMPORARY EASEMENT			

NOTES:

1. "SCREENED" (LIGHT) DELINEATION SHOWN IN THIS SHEET DEMOTES EXISTING CONDITIONS. "SCREENED" INFORMATION WAS TAKEN FROM PREVIOUS CONSTRUCTION DRAWINGS AND FIELD SURVEY, IS FOR REFERENCE ONLY, AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING OF MATERIALS AND BEGINNING CONSTRUCTION. "BOLD" DELINEATION IS NEW WORK TO BE CONSTRUCTED UNDER THIS CONTRACT.

MATERIAL LEGEND

	EARTH, BACKFILL
	SAND, GRAVEL, CONCRETE (PLAN)
	GRAVEL FILL, GRAVEL PAVING
	RIP RAP
	CAST IN PLACE CONCRETE, PRECAST CONCRETE, PCC PAVING
	CONCRETE MASONRY UNITS
	BRICK MASONRY UNITS, ACC PAVING IN SECTION
	INSULATION: NON-RIGID, BATT
	INSULATION: RIGID
	ROUGH CARPENTRY
	PLYWOOD
	ACC PAVING
	SEEDED AREA

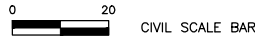
SYMBOL LEGEND



TRUE NORTH ARROW:
ORIENTATION IS SURVEYED TO TRUE NORTH OR AS CLOSE TO TRUE NORTH AS KNOWN DATA.



PLAN NORTH ARROW:
ORIENTATION IS CLOSEST TO TRUE NORTH AND INCREASES COMMUNICATION WHEN ADDRESSING SIDES OF A STRUCTURE.



1 BLDG DETAIL OR SECTION

SCALE: TO SCALE

1 DETAIL (NOT TO SCALE)

SCALE: NONE

TYPICAL NOTE:

1. NOTES ASSOCIATED WITH SHEET, PLAN, ELEVATION, SECTION OR DETAIL.



DETAIL INDICATOR



SECTION INDICATOR



ELEVATION INDICATOR



MATCH LINE INDICATOR



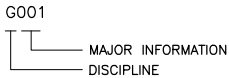
CONTRACT TERMINATOR



REVISION MARKER

VENDOR CONTRACTOR

SHEET DESIGNATIONS



DISCIPLINE

G GENERAL
C CIVIL

SHEET INDEX

Sheet Number Sheet Title

G-GENERAL	
G.00	COVER SHEET
G.01	SHEET INDEX AND LEGEND
G.02	ABBREVIATIONS
G.03	SITE MAP, NOTES, AND CONTROL
C-CIVIL	
C.01	SITE LAYOUT AND EROSION CONTROL PLAN
C.02	WELL SECTION AND DETAILS
C.03	WELL BORING LOG
C.04	STANDARD DETAILS

UTILITY AND EMERGENCY PHONE NUMBERS

CITY OF ANAMOSA, IOWA			
UTILITY	CONTACT NAME	PHONE NUMBER	
CITY OF ANAMOSA WATER	ROBERT YOUNG	319-821-0306	ROBERT.YOUNG@ANAMOSA-IA.ORG
CITY OF ANAMOSA SEWER	STEVE AGNITSCH	319-558-8335	STEVE.AGNITSCH@ANAMOSA-IA.ORG
ALLIANT ENERGY	FIELD MANAGER	800-255-4268	LOCATE_IPL@ALLIANTENERGY.COM
CENTURYLINK	TOM STURMER	303-453-9927	THOMAS.STURMER@CENTURYLINK.COM
MEDIACOM	RANDY CHASE	845-867-0933	RANDYCHASE@MEDIACOMCC.COM
MAQUOKETA VALLEY ELECTRIC COOP	NICK SCHULTE	319-820-0266	NSCHULTE@MVEC.COM
NORTHERN NATURAL GAS COMPANY	JIM JOHNSON	402-530-6625	JIM.JOHNSON@NNGCO.COM
BLACK HILLS ENERGY MANCHESTER	BRIAN MCWILLIAMS	563-927-1017	BRIAN.MCWILLIAMS@BLACKHILLSCORP.COM

NOTE:

NOT ALL ABBREVIATIONS OR SYMBOLS SHOWN IN THESE LISTS MAY BE USED IN THIS PROJECT. CONTACT ARCHITECT OR ENGINEER FOR CLARIFICATION OF ANY DISCREPANCIES.

DRAWN BY: JLM JOB DATE: 2020
APPROVED: JAS JOB NUMBER: 190261
CAD DATE: 6/4/2021 9:43:38 AM
CAD FILE: J:\2019\190261\CAD\Dwgs\BP1\G\G.01 SHEET INDEX AND LEGEND.dwg

BAR IS ONE INCH ON OFFICIAL DRAWINGS.
0 1"
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION



JORDAN WELL NO. 6
BID PACKAGE NO. 1: WELL DRILLING
ANAMOSA, IOWA

G-GENERAL
SHEET INDEX AND LEGEND

SHEET NO.
G.01

Xrefs: xgt-1-dh01; x0-0-D00

ABBREVIATIONS

®	AT
A	AMPS, AMPERES
AAV	AUTOMATIC AIR VENT
AB	ANCHOR BOLT, AERATION BLOWER
AC	ALTERNATING CURRENT, AERATION CELL
ACC	ASPHALTIC CEMENT CONCRETE, AIR COOLED CONDENSOR
ACCU	AIR COOLED CONDENSOR UNIT
ACT	ACOUSTIC CEILING TILE
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR, AIR DRYER
ADH	ADHESIVE
ADP	AUTO DIALER PANEL
ADW	AVERAGE DRY WEATHER
A/E	ARCHITECTURAL / ENGINEERING FIRM
AF	AMPERE FRAME
AFD	ADJUSTABLE FREQUENCY DRIVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AG	ABOVE GRADE
AH	ACCESS HATCH
AHU	AIR HANDLING UNIT
AIC(S)	AMPERES INTERRUPTING CAPACITY, SYMMETRICAL
ALT	ALTERNATE
ALUM, AL	ALUMINUM
AMB	AMBIENT
ANCH,ANC	ANCHOR
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APVD	APPROVED
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
AWW	AVERAGE WET WEATHER
B	BOILER
BBH	BASEBOARD HEATER
BC	BARE COPPER, BACK OF CURB, BELT CONVEYOR
BCU	BLOWER COIL UNIT
BCV	BALL CHECK VALVE
BDD	BOND BEAM
BD BM	BACKDRAFT DAMPER
BDF	BLIND FLANGE, BOTTOM FACE
BFP	BACKFLOW PREVENTOR, BELT FILTER PRESS
BFV	BUTTERFLY VALVE
BG	BELOW GRADE
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
B/	BOTTOM OF
BOD	BOTTOM OF DUCT,
BODS	5-DAY BIOLOGICAL OXYGEN DEMAND
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BOW	BOTTOM OF WALL
BRG	BEARING
BRK	BRICK
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BTWN	BETWEEN
BV	BALL VALVE
C	CONDUIT, CELSIUS, C STRUCTURAL SHAPE, CHILLER, CRITICAL SYSTEM
C TO C	CENTER TO CENTER
CAP	CAPACITY
CB	CIRCUIT BREAKER
CC	COILING COIL, CONSTRUCTION CASTING
CD	CEILING DIFFUSER, CENTRIFUGE DEWATERING
CF	COALESCING FILTER, CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CONCRETE HARDENER
CHNL	CHANNEL
CHWP	CHILLED WATER PUMP
CI	CAST IRON, CUBIC INCH
CIP	CAST IN PLACE, CLEAN IN PLACE, CAST IRON PIPE
CJ	CONTROL OR CONSTRUCTION JOINT
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING, COOLING
CLR	CLEAR, CLEARANCE
CMPR	COMPRESSOR
CMU	CONCRETE MASONRY UNIT
CND	CONDENSATE
CNTRL	CONTROL

CO	CLEAN OUT, CONDUIT ONLY
COL	COLUMN
COMP	COMPRESSION
CONC	CONCRETE
COND	CONDENSER, CONDUIT, CONDENSATE
CONN	CONNECTION
CONT	CONTINUE (OUS)
CONTR	CONTRACTOR
COORD	COORDINATE
COP	COEFFICIENT OF PERFORMANCE
CORP	CORPORATION
CP	CONDENSATE PUMP, COMPRESSOR, MASTER CLOCK AND PROGRAM SYSTEM
CPT	CONTROL POWER TRANSFORMER, CARPET
CR	CRANE, CONTROL RELAY
CRF	CHEMICAL RESISTANT FINISH
CRP	CONDENSATE RETURN PUMP
CRS	COURSES
CT	CURRENT TRANSFORMER, COOLING TOWER CONTROL PANEL
CTR(S)	CENTER(S)
CU	CONDENSING UNIT, COPPER
CUH	CABINET UNIT HEATER
CV	CHECK VALVE
CW	COLD WATER
CWP	CONDENSER WATER PUMP
CY	CUBIC YARD
D	DECANT
DA	DEARATOR
DB	DRY BULB TEMPERATURE, DIRECT BURIED, DECIBEL
DBL	DOUBLE
DC	DIRECT CURRENT
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DFT	DRY FILM THICKNESS
DG	DOOR GRILLE
DGS	DIGESTER SLUDGE
DI	DUCTILE IRON
DIA,ø	DIAMETER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DIR	DIRECTION
DL	DEAD LOAD
DN	DOWN
DP	DEWPOINT TEMPERATURE
DPR	DAMPER
DR	DRIVE
DRN	DRAIN
DS	DOWN SPOUT
DTL	DETAIL(S)
DWG	DRAWING(S)
DWL	DOWEL
DX	DIRECT EXPANSION
E	EQUIPMENT, EMERGENCY EQUIPMENT SYSTEM
EA	EACH, EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECC	ECCENTRIC
ECP	ENVIRONMENTAL CONTROL PANEL
EDH	ELECTRIC DUCT HEATER
EE	EMERGENCY EYE WASH
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN, EACH FACE
EFF	EFFICIENCY, EFFLUENT
EG	EXHAUST GRILLE, ENGINE GENERATOR
EGB, EPT	EPOXY PAINT
EIL	EQUIPMENT INTERLOCK
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATION
EM	EMERGENCY SYSTEM
EMBED	EMBEDMENT
ENCL	ENCLOSURE
ENG	ENGINEER
EOD	EDGE OF DECK
EP	EXPLOSION PROOF, EPOXY PAINT
EQ, EQUIP	EQUAL, EQUIPMENT
EQ SP	EQUALLY SPACED
EQMT	EQUIPMENT
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETM	ELAPSED TIME METER
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EW	EACH WAY
EWG	ELECTRIC WATER COOLER
EWEF	EACH WAY EACH FACE
EWH	ELECTRIC WATER HEATER
EWI	ENTERING WATER TEMPERATURE
EXIST, EXST	EXISTING

EXP (JT)	EXPANSION, EXPANSION JOINT
EXT	EXTERIOR, EXTERNAL
F	DEGREES FAHRENHEIT, FLUORIDE
FA	FACE AREA, FREE AREA, FIRE ALARM
FAB	FABRICATE(D)
FAC	FLANGED ADAPTOR COUPLING
FB	FLAT BAR, FLOOR BEAM
FC	FAN COIL UNIT, FLEXIBLE CONNECTION
FCA	FLANGE COUPLING ADAPTOR
FCU	FAN COIL UNIT
FD	FIRE DAMPER, FLOOR DRAIN
FDN	FOUNDATION
FE	FLANGED END, FIRE EXTINGUISHER, FLOW ELEMENT
FES	FLARED END SECTION
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FIL	FILTRATE
FIN	FINISH
FL	FLOW LINE, FLUORESCENT
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FLUOR	FLUORESCENT
FNDN	FOUNDATION
FM	FLOW METER
FMC	FLOOR MOUNTED CLEAN OUT
FMN	FIRE MONITOR NOZZLE
FO	FIBER OPTICS
FOB	FLAT ON BOTTOM
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STEEL
FOT	FLAT ON TOP
FW	FACE OF WALL
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FR	FLOOR REGISTER
FRP	FIBERGLASS REINFORCED PLASTIC OR PNL
FS	FLOOR STAIN
FT	FEET, FLOW TRANSMITTER
FTG	FOOTING
FUR	FURNACE
FV	FIELD VERIFY
G	GATE, GROUND
GA	GAUGE, GAGE
GAL	GALLONS
GALV	GALVANIZED
GB	GYPSUM BOARD
GC	GAS CHROMATAGRAPH (FLOW COMPUTER)
GEN	GENERATOR
GF	CIRCUIT TO GND FAULT CIRCUIT BREAKER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
GFS	GROUND FAULT SLAVE (PROTECT UPSTRM)
GL	GLASS
GND	GROUND
GP	GRIT PUMP
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS, GRINDER, GUARD RAIL
GRTG	GRATING
GS	GRIT SCREW CONVEYOR
GU	GRIT UNIT
GV	GATE VALVE
GW	GYPSUM WALL BOARD
GWG	GRASS WATERWAY
GYP	GYPSUM
HB	HOSE BIBB
HC	HEATING COIL, HANDICAP (PED)
HCAP	HANDICAP (PED)
HCU	HOLLOW CORE UNIT
HD	HEAD
HDPE	HIGH DENSITY POLYETHYLENE
HDR	HEADER
HG	MERCURY
HGR	HANGER
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HM	HOLLOW METAL
HMA	HOT MIX ASPHALT
HOA	HAND OFF AUTOMATIC
HOR()Z	HORIZONTAL
HP	HORSEPOWER, HIGH POINT
HPF	HORIZONTAL PRESSURE FILTER
HPG	HIGH PRESSURE GAS
HPS	HIGH PRESSURE SODIUM
HR	HOUR, HOSE REAL, HAND RAIL
HRTU	HEATING RECOVERY UNIT
HSGL	HEAT STRENGTHENED GLASS
HSS	HOLLOW STRUCTURAL SHAPE
HST	HOIST
HT	HEIGHT, HEATER
HTG	HEATING
HTP	HEAT PUMP
HTR	HEATER
HU	HUMIDIFIER

HVAC	HEATING, VENTILATING, AIR CONDITIONING
HW	HOT WATER
HWC	HOT WATER RECIRCULATED
HWL	HIGH WATER LEVEL
HWP	HEATING WATER PUMP
HWR	HOT WATER RETURN
HWS	HIGH WATER SURFACE
HWUH	HOT WATER UNIT HEATER
HX	HEAT EXCHANGER
HY	HYDRANT
HZ	HERTZ
IBC	INTERNATIONAL BUILDING CODE
IC	INTERCOM SYSTEM
ID	INSIDE DIAMETER
IDOT	IOWA DEPARTMENT OF TRANSPORTATION
IE	INVERT ELEVATION
IFC	INTERNATIONAL FIRE CODE, ISSUED FOR CONSTRUCTION
I/F, IF	INSIDE FACE, INSERTION FLOW METER
IMC	INTERNATIONAL MECHANICAL CODE
INCAND	INCANDESCENT
INC	INCHES, INCUBATOR
INCAND	INCANDESCENT
INF	INFLUENT
INSUL	INSULATION
INT	INTERIOR
INVT	INVERT
IPC	INTERNATIONAL PLUMBING CODE
ITC	INSTRUCTION TO CONTRACTOR
JB	JUNCTION BOX
JS	JANITOR SINK
JT, JNT	JOINT
K	STRUCTURAL BAR JOIST SHAPE, KILO
KB	KNEE BRACE
KOMIL	THOUSAND CIRCULAR MILS
KIP	THOUSAND POUNDS
KVA	KILOVOLT — AMPERES
KW	KILOWATTS
KWH	KILOWATT — HOUR
L	LOUVER, ANGLE, LIFE SAFETY SYSTEM
LA	LIGHTNING ARRESTOR
LAB	LABORATORY
LAP	LEVEL ALARM PANEL
LAT	LEAVING AIR TEMP, LATENT, LATITUDE
LAV	LAVATORY
LB(S)	POUND(S)
LD	LINEAR DIFFUSER
LE	LAB EQUIPMENT
LF	LINEAR FEET
LFG	LANDFILL GAS
LFG	LANDFILL GAS (HIGH PRESSURE)
LFL	LANDFILL GAS (LOW PRESSURE)
LHR	LATENT HEAT RATIO
LIN	LINEAR
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNTL	LINTEL
LONG	LONGITUDINAL
LOS	LOCKOUT STOP PUSH—BUTTON
LP	LOW POINT, LOUVERED PENTHOUSE
LPG	LOW PRESSURE GAS
LRA	LOCKED ROTOR AMPS
LS	LIMIT SWITCH
LT	LEVEL TRANSDUCER, TRANSMITTER
LTG	LIGHTING
LV	LOUVER
LWL	LOW WATER LEVEL
LWS	LOW WATER SURFACE
LWT	LEAVING WATER TEMPERATURE
M	METER, MOTOR
MA	MILLIAMPERES
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAU	MAKEUP AIR UNIT
MAX	MAXIMUM
MB	MACHINE BOLTS
MBH	ONE THOUSAND BTUH
MC	MASTER CLOCK SYSTEM
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MG	MILLION GALLON
MGD	MILLION GALLONS PER DAY
MH	MANHOLE, METAL HALIDE
MIN	MINIMUM
MIRR	MIRRORED
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MK	MARK

MM	MAG METER
MNT	MOUNT, MOUNTED
MO	MASONRY OPENING
MOC	MAXIMUM OVERCURRENT PROTECTION
MP	METERING PUMP
MS	MECHANICAL FINE SCREEN
MT	EMPTY, EMPTY CONDUIT
MTD	MOUNTED
MTL	METAL
MW	MASONRY WALL
MWW	MAXIMUM WET WEATHER
MX	MIXER
N	NEUTRAL
N/A	NOT APPLICABLE
NC	NOISE CRITERIA, NORMALLY CLOSED NURSE CALL SYSTEM
NEC	NATIONAL ELECTRICAL CODE
NEG	NEGATIVE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHTLIGHT
NO	NORMALLY OPEN, NUMBER
NOM	NOMINAL
NPS	NOMINAL PIPE SIZE
NPT	NATIONAL PIPE THREAD
NRP	NON-REMOVABLE PIN
NSG	NON-SHRINK GROUT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTDOOR AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OED	OPEN END DUCT
O/F, OF	OUTSIDE FACE, OPEN FACE, OVERFLOW
OH	OVERHEAD
OHE	OVERHEAD ELECTRIC
OL	MOTOR OVERLOAD CONTACTS
O TO O	OUT TO OUT
OPNG	OPENING
OPP	OPPOSITE
OS	OIL SEPARATOR
OSB	ORIENTED STRAND BOARD
P	POLE, PUMP, PILASTER OR PIER
PAGING	PAGING SYSTEM
PART	PARTIAL
PB	PUSHBUTTON, PULL BOX, PANEL BOARD
PBD	PARALLEL BLADE DAMPER
PC	PRECAST CONCRETE
PCC	PORTLAND CEMENT CONCRETE
PCST	PRE CAST
PD	PRESSURE DROP
PE	PLAIN END, POLYETHYLENE
PERF	PERFORATED
PERP	PERPENDICULAR
PF	PARSHALL FLUME
PFJ	PRE MOLDED JOINT FILLER
PH	PHASE
PHWW	PEAK HOURLY WET WEATHER
PJF	PREFORMED JOINT FILLER
PL	PLATE
PLWD	PLYWOOD
PNL	PANEL
POJ	PUSH ON JOINT
POT	POINT OF TANGENT
PPM	PARTS PER MILLION
PR	PAIR
PROJ	PROJECTION
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	PSI, ABSOLUTE
PSIG	PSI, GAGE
PSW	PLANT SERVICE WATER
PT	POTENTIAL TRANSFORMER
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	RISER(S), RADIUS, RED
RA	RETURN AIR
RAC	ROOM AIR CONDITIONER
RAD	RADIUS
RAS	RETURN ACTIVATED SLUDGE
RB	ROOF BEAM, RUBBER BASE
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RCMD	RECOMMENDED(ATION)
RD	ROOF DRAIN
RDT	ROTARY DRUM THICKENER
RECIRC	RECIRCULATE
RED	REDUCER
REF	REFERENCE
REINF	REINFORCE(ING)
REQ(D)	REQUIRE(D)
REV	REVISED

RF	RETURN FAN
RFI	REQUEST FOR INFORMATION
RG	RETURN GRILLE
RH	RELIEF HOOD, RELATIVE HUMIDITY
RHC	REHEAT COIL
RJ	RESTRAINED JOINT
RM	ROOM
RO	ROUGH OPENING, REVERSE OSMOSIS
ROS	ROTATED OUT OF SECTION
ROW	RIGHT OF WAY
RP	RETURN PUMP
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER, RAILROAD
RS	RAW SEWAGE
RTU	ROOFTOP UNIT
RW	RESILIENT WEDGE
S	STRUCTURAL S SHAPE, LIFE SUPPORT SYSTEM
S&F	SECURITY & FIRE PANEL
SA	SUPPLY AIR, SAMPLER
SAGR	SUBMERGED ATTACHED GROWTH REACTOR
SAN	SANITARY, SANITARY SEWER
SAT	SATURATION
SB	SOIL BORING, SPLITTER BOX
SBR	SEQUENTIAL BATCH REACTOR
SC	SAW CUT, SCREEN CONVEYOR, SAGR CELL
SCFM	CFM, AT STANDARD CONDITIONS
SCH	SCHEDULE
SCL	SECONDARY CLARIFIER
SD	SMOKE DAMPER, SLUDGE DRYER
SDC	SLUDGE SCREW CONVEYOR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SEN	SENSIBLE
SF	SUPPLY FAN, SQUARE FOOT
SG	SUPPLY GRILLE, SLIDE/SLUICE GATE
SH	SHIELDED, SHOWER, SHEET
SJ	SOFT JOINT
SHR	SENSIBLE HEAT RATIO
SHT	SHEET
SIM	SIMILAR
SK	SINK
SL	SNOW LOAD, SELF LEVELING
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SMPL	SAMPLE
SP	STATIC PRESSURE, SUMP PUMP, SPACE(S)
SPD	SLUDGE PUMP
SPEC(S)	SURGE PROTECTOR DEVICE
SPM	SPECIFICATION(S)
SQ	SUBMERSIBLE PROPELLER MIXER
SQ FT	SQUARE
SR	SQUARE FEET
SS	SUPPLY REGISTER
SSH	STAINLESS STEEL, SUCTION SEPARATOR
SSL	SAFETY SHOWER
SST	SECONDARY SLUDGE
STC	SATURATED SUCTION TEMPERATURE
STD	SOUND TRANSMISSION CLASS
STG	STOP GATE
STL	STANDARD
STR	STOP GATE
STRUT	STEEL
SUCT	STIRRUP
SW	STRUCTURE
SWPPP	SUCTION
SYMM	SWITCH, SAMPLING
T	STORM WATER POLLUTION PREVENTION PROGRAM
T&B	SYMMETRICAL
TA	TEMPERATURE, THREAD, TREAD
TACH	TOP AND BOTTOM
TB	TELEPHON SYSTEM—TA,TB,TC,ETC. INDICATES TO TERMINAL CABINET OR MOUNTING BOARD
TBS	TA,TB,TC, ETC.
TCP	TACHOMETER
TD	TERMINAL BOARD
TDH	THICKENED BLENDED SLUDGE
TEL	TEMP CONTROL PANEL
TEMP	TEMPERATURE DIFFERENCE, TRENCH DRAIN
TF	TOTAL DYNAMIC HEAD
TFR	TELEPHONE
TG	TEMPERATURE, TEMPORARY, TEMPERED
TGL	TOP FACE
THK	TRICKLING FILTER RECYCLE
TK	TURBINE GENERATOR
TMW	TEMPERED GLASS
T/	THICK
TOC	TANK
TOD	THERMOSTATIC MIXING VALVE
TONS	TOP OF
TOS	TOP OF CONCRETE
TOW	TOP OF DUCT
TP	TONS OF REFRIGERATION
TR	TOP OF STEEL
TRANSF	TOP OF WALL
TRANSV	TRANSFORMER
TSG	TWISTED PAIR
	TREAD(S)
	TRANSFORMER
	TRANSVERSE
	TEMPERED SAFETY GLASS

NOTES:

1. NOT ALL ABBREVIATIONS, DESIGNATIONS OR SYMBOLS SHOWN IN THESE LISTS MAY BE USED IN THIS PROJECT. CONTACT ARCHITECT OR ENGINEER FOR CLARIFICATION OF ANY DISCREPANCIES.
2. ABBREVIATION DEFINITION SHALL BE SELECTED BY APPROPRIATE DISCIPLINE AND CONTEXT OF INTENDED NOTE OR TEXT.

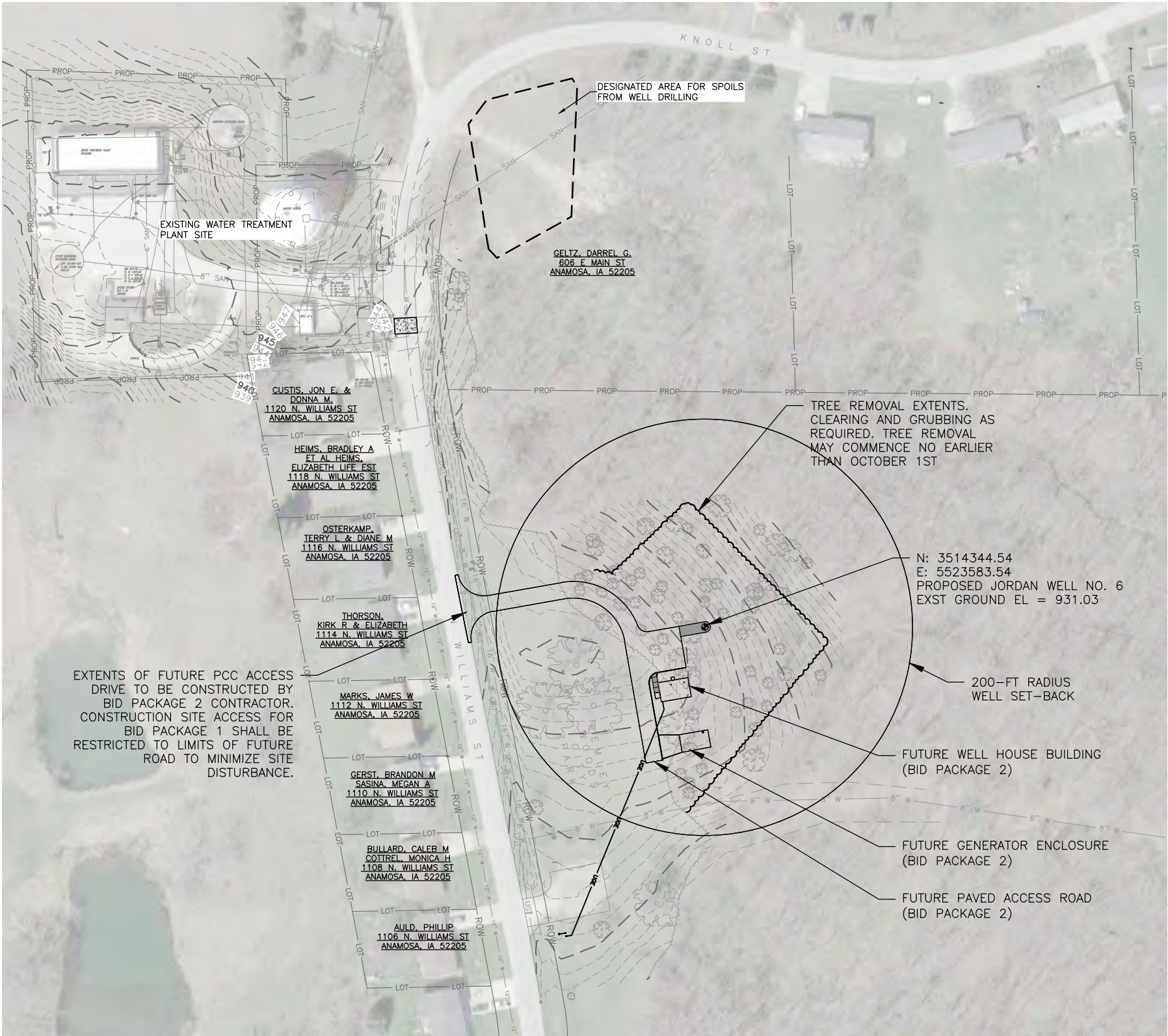
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1 OVERALL SITE PLAN
SCALE: 1" = 80'



GENERAL NOTES:

- CONTRACTOR SHALL CONFINE ALL ACTIVITIES TO THE RIGHT-OF-WAY OR INDICATED CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED. NO MATERIALS, EXCAVATED MATERIAL, OR EQUIPMENT SHALL BE STORED ON, PARKED ON, DEPOSITED ON, OR DRIVEN OVER ANY PRIVATE PROPERTY UNLESS WRITTEN AUTHORIZATION IS OBTAINED FROM THE PROPERTY OWNER BY THE CONTRACTOR. A COPY OF SUCH WRITTEN AGREEMENT SHALL BE PROVIDED TO THE CITY AND THE ENGINEER. UPON COMPLETION, CONTRACTOR SHALL PROVIDE TO THE CITY AND THE ENGINEER A WRITTEN RELEASE SIGNED BY THE PROPERTY OWNER.
- CONTRACTOR SHALL COORDINATE WITH THE CITY TO ESTABLISH A CONSTRUCTION STAGING AND STORAGE AREA. ALL CONTRACTOR MATERIALS, EQUIPMENT, JOB TRAILERS, EMPLOYEE VEHICLE PARKING, ETC. SHALL BE LOCATED IN THIS DESIGNATED AREA. CITY IS NOT RESPONSIBLE FOR SECURED/UNSECURED MATERIALS STORED ONSITE.
- ANY DAMAGE TO STREETS AND ROADS CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT NO COST TO THE OWNER, EXCEPT AS NOTED ON PLANS.
- CONTRACTOR SHALL REGULARLY CHECK VERTICAL AND HORIZONTAL ALIGNMENT. ALL ELEVATIONS ARE NAVD88 DATUM. THE HORIZONTAL COORDINATE SYSTEM IS NAD83 IOWA STATE PLANE, NORTH ZONE, US SURVEY FEET.
- EXISTING UTILITIES, STRUCTURES, TREES, AND PAVEMENT LOCATIONS SHOWN ARE APPROXIMATE. THE COMPLETENESS AND ACCURACY OF THIS INFORMATION IS NOT GUARANTEED. CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATIONS OF THESE OR ANY OTHER EXISTING FACILITIES AS REQUIRED TO COMPLETE THE WORK.
- CERTAIN RELOCATIONS OF EXISTING UTILITIES MAY BE REQUIRED AS A RESULT OF CONSTRUCTION OF THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE REQUIRED WORK WITH THE RESPECTIVE UTILITY COMPANIES IN ORDER TO AVOID UNNECESSARY DELAYS TO CONSTRUCTION. THE CONTRACTOR SHALL WORK CLOSELY WITH THE UTILITIES TO LOCATE, PLAN, AND RELOCATE THESE FACILITIES IN A MANNER THAT MINIMIZES UTILITY SHUT-OFF AND KEEPS THE PROJECT ON SCHEDULE.
- WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.
- IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES NOTICE TO IOWA ONE CALL NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND LEGAL HOLIDAYS.
- CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS NECESSARY TO PERFORM WORK. ALL TREES, STUMPS, BRUSH AND DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF SO THAT THEY WILL NOT INTERFERE WITH CONSTRUCTION OF THE WELL.
- CONTRACTOR SHALL CHECK FOR THE PRESENCE OF ANY FIELD OR DRAIN TILE AS EXCAVATION PROGRESSES. A RECORD OF ANY FIELD TILE ENCOUNTERED SHALL BE MADE AND INCLUDE LOCATION BY COORDINATES, TYPE OF PIPE, AND TYPE OF REPAIR MADE. ALL TILE LINE LOCATIONS SHALL BE PROTECTED.
- CONTRACTOR SHALL HAUL AND PROPERLY DISPOSE OF EXCESS MATERIAL (INCLUDING EXCAVATED MATERIAL OR BROKEN CONCRETE) WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK ON THIS PROJECT. NO PAYMENT WILL BE ALLOWED FOR THE MATERIAL DISPOSED OF AND NOT INCORPORATED INTO THE WORK. NO MATERIAL SHALL BE PLACED WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY STATED IN THE PLANS OR APPROVED BY THE ENGINEER. UNLESS OTHERWISE DIRECTED OR AUTHORIZED, ALL ASPHALTIC CEMENT CONCRETE AND OTHER BITUMINOUS MATERIALS WHICH ARE NOT SPECIFICALLY ADDRESSED OR DESCRIBED IN THE PLANS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL DISPOSE OF THESE MATERIALS IN ACCORDANCE WITH CURRENT RULES AND REGULATIONS OF THE IOWA DEPARTMENT OF NATURAL RESOURCES.
- ALL HOLES RESULTING FROM OPERATIONS OF THE CONTRACTOR, INCLUDING REMOVAL OF FENCE POSTS, SHALL BE FILLED AND CONSOLIDATED TO FINISHED GRADE AS DIRECTED BY THE ENGINEER TO PREVENT FUTURE SETTLEMENT. THE VOIDS SHALL BE FILLED AS SOON AS PRACTICAL -- PREFERABLY THE DAY CREATED AND NOT LATER THAN THE FOLLOWING DAY. ANY PORTION OF THE RIGHT-OF-WAY OR PROJECT LIMITS (INCLUDING BORROW AREAS AND OPERATION AREAS) DISTURBED BY ANY SUCH OPERATIONS SHALL BE RESTORED TO AN ACCEPTABLE CONDITION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- DURING REMOVAL AND CONSTRUCTION, THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO CONTROL DUST SPREADING FROM ALL WORK AND STAGING AREAS.
- CONTRACTOR SHALL PREPARE, IMPLEMENT, AND MANAGE THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND WELL WATER POLLUTION PREVENTION PLAN (WWPPP), CONDUCT ALL REQUIRED INSPECTIONS, AND MAINTAIN ASSOCIATED EROSION CONTROL. THE CONTRACTOR SHALL HAVE A COPY OF THE SWPPP ON-SITE DURING ALL CONSTRUCTION ACTIVITIES.
- CONTRACTOR TO MAINTAIN SURFACE DRAINAGE OF THE SITE DURING CONSTRUCTION.
- THE TOP EIGHT (8) INCHES OF THE DISTURBED AREAS SHALL BE FREE OF ROCK AND DEBRIS AND SHALL BE SUITABLE FOR THE ESTABLISHMENT OF VEGETATION, SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE CITY.
- CONTRACTOR SHALL KEEP AND UPDATE A SET OF AS-CONSTRUCTED DRAWINGS. CONTRACTOR SHALL SUBMIT THE AS-CONSTRUCTED DRAWINGS TO THE ENGINEER UPON PROJECT COMPLETION.
- ALL PROPERTY CORNERS DISTURBED BY CONSTRUCTION SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR'S REPRESENTATIVE SHALL BE PRESENT AT THE FINAL INSPECTION.
- SEE SPECIFICATIONS SECTION 01 1000 FOR GENERAL WORK SEQUENCE.

SURVEY CONTROL POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
59	3514702.02	5523283.59	946.11	CP-SIR59
102	3514616.52	5523133.97	0.00	CP 10 SET LANDSCAPE NAIL 9 FEET NORTH OF TORNADO SIREN
103	3514688.64	5522959.33	943.13	CP 11 BENCHMARK & HORIZONTAL CONTROL - SET X ON TOP OF WEST WATER TANK
500	3514624.22	5523286.81	944.24	CP 500 SET MAG NAIL
501	3513984.35	5523425.99	924.28	CP 501 SET MAG NAIL
502	3514301.87	5523447.16	940.20	CP 502 HUB
5184	3514587.44	5523058.30	935.56	CP-SN
5185	3514680.39	5523239.49	946.53	CP SN
7230	3514674.82	5523044.37	943.57	CP 1025

ELEVATIONS ARE NAVD 88
IOWA STATE PLANE NORTH COORDINATES
HORIZONTAL COORDINATE SYSTEM IS NAD 83 (2011)

DATUM NOTE:
1998 WTP PLAN SET DATUM 91.00' FIN FLR =
2016 WTP EXPANSION PLAN SET DATUM 945.33'
EXISTING FIN FLR. A DIFFERENCE OF 854.33'

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APPROVED: JAS JOB NUMBER: 190261
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CAD FILE: J:\2019\190261\CAD\Draws\BP1\G\G.03 SITE MAP, NOTES, AND CONTROL.dwg

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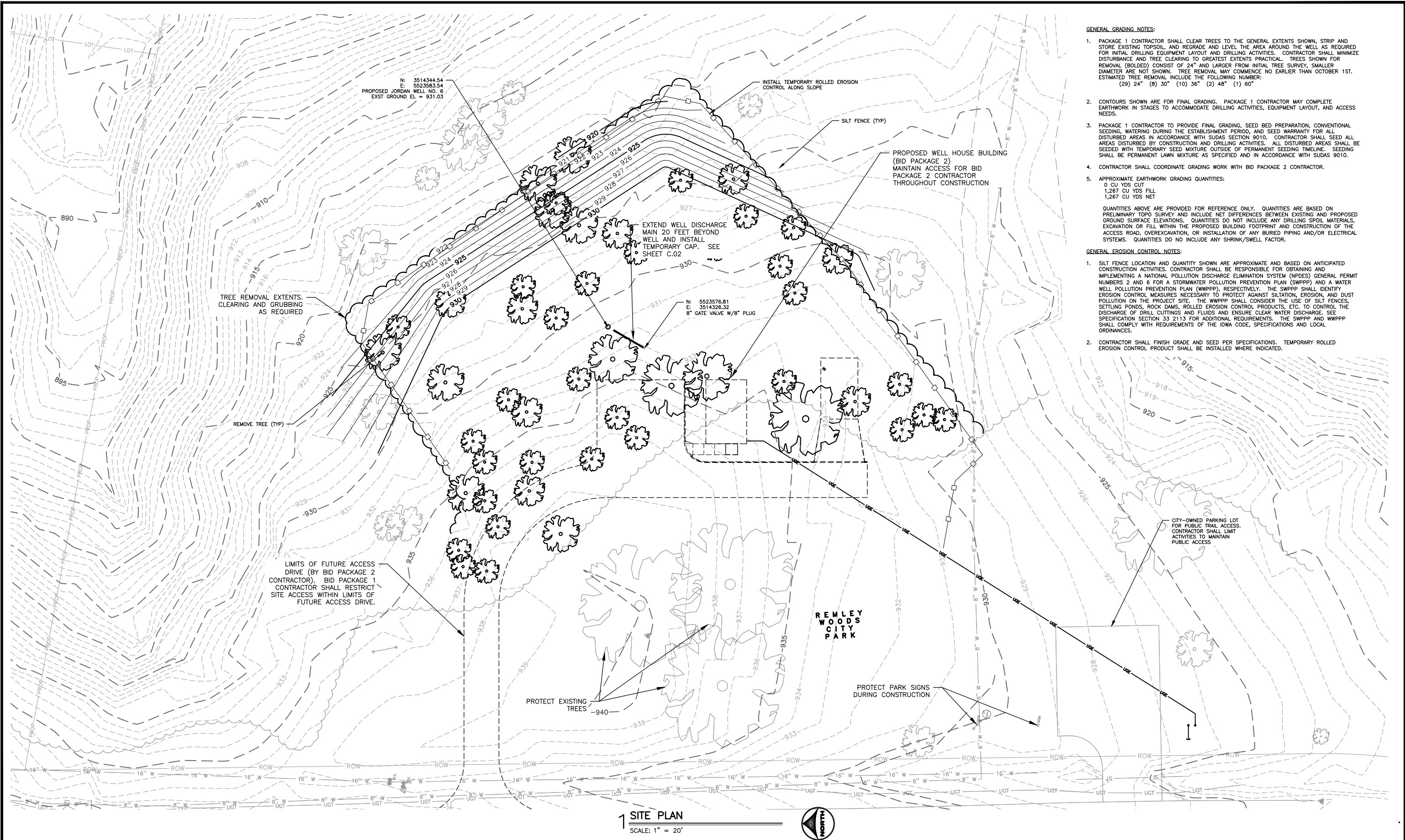
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JORDAN WELL NO. 6
BID PACKAGE NO. 1: WELL DRILLING
ANAMOSA, IOWA

G-GENERAL
SITE MAP, NOTES, AND CONTROL

SHEET NO.
G.03

Xref: xc:0-base; xc:0-cont; xc:0-base-WTP; xc:0-cont-WTP; xc:1-dsgn; xc:0-limits; xc:0-dsgn; xc:0-dsgn; xc:1-cont



GENERAL GRADING NOTES:

- PACKAGE 1 CONTRACTOR SHALL CLEAR TREES TO THE GENERAL EXTENTS SHOWN, STRIP AND STORE EXISTING TOPSOIL, AND REGRADE AND LEVEL THE AREA AROUND THE WELL AS REQUIRED FOR INITIAL DRILLING EQUIPMENT LAYOUT AND DRILLING ACTIVITIES. CONTRACTOR SHALL MINIMIZE DISTURBANCE AND TREE CLEARING TO GREATEST EXTENTS PRACTICAL. TREES SHOWN FOR REMOVAL (BOLDED) CONSIST OF 24" AND LARGER FROM INITIAL TREE SURVEY, SMALLER DIAMETER ARE NOT SHOWN. TREE REMOVAL MAY COMMENCE NO EARLIER THAN OCTOBER 1ST. ESTIMATED TREE REMOVAL INCLUDE THE FOLLOWING NUMBER:
(29) 24" (8) 30" (10) 36" (2) 48" (1) 60"
- CONTOURS SHOWN ARE FOR FINAL GRADING. PACKAGE 1 CONTRACTOR MAY COMPLETE EARTHWORK IN STAGES TO ACCOMMODATE DRILLING ACTIVITIES, EQUIPMENT LAYOUT, AND ACCESS NEEDS.
- PACKAGE 1 CONTRACTOR TO PROVIDE FINAL GRADING, SEED BED PREPARATION, CONVENTIONAL SEEDING, WATERING DURING THE ESTABLISHMENT PERIOD, AND SEED WARRANTY FOR ALL DISTURBED AREAS IN ACCORDANCE WITH SUDAS SECTION 9010. CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION AND DRILLING ACTIVITIES. ALL DISTURBED AREAS SHALL BE SEEDED WITH TEMPORARY SEED MIXTURE OUTSIDE OF PERMANENT SEEDING TIMELINE. SEEDING SHALL BE PERMANENT LAWN MIXTURE AS SPECIFIED AND IN ACCORDANCE WITH SUDAS 9010.
- CONTRACTOR SHALL COORDINATE GRADING WORK WITH BID PACKAGE 2 CONTRACTOR.
- APPROXIMATE EARTHWORK GRADING QUANTITIES:
0 CU YDS CUT
1,267 CU YDS FILL
1,267 CU YDS NET

QUANTITIES ABOVE ARE PROVIDED FOR REFERENCE ONLY. QUANTITIES ARE BASED ON PRELIMINARY TOPO SURVEY AND INCLUDE NET DIFFERENCES BETWEEN EXISTING AND PROPOSED GROUND SURFACE ELEVATIONS. QUANTITIES DO NOT INCLUDE ANY DRILLING SPOIL MATERIALS, EXCAVATION OR FILL WITHIN THE PROPOSED BUILDING FOOTPRINT AND CONSTRUCTION OF THE ACCESS ROAD, OVEREXCAVATION, OR INSTALLATION OF ANY BURIED PIPING AND/OR ELECTRICAL SYSTEMS. QUANTITIES DO NOT INCLUDE ANY SHRINK/SWELL FACTOR.

GENERAL EROSION CONTROL NOTES:

- SILT FENCE LOCATION AND QUANTITY SHOWN ARE APPROXIMATE AND BASED ON ANTICIPATED CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND IMPLEMENTING A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NUMBERS 2 AND 6 FOR A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND A WATER WELL POLLUTION PREVENTION PLAN (WWPPP), RESPECTIVELY. THE SWPPP SHALL IDENTIFY EROSION CONTROL MEASURES NECESSARY TO PROTECT AGAINST SILTATION, EROSION, AND DUST POLLUTION ON THE PROJECT SITE. THE WWPPP SHALL CONSIDER THE USE OF SILT FENCES, SETTLING PONDS, ROCK DAMS, ROLLED EROSION CONTROL PRODUCTS, ETC. TO CONTROL THE DISCHARGE OF DRILL CUTTINGS AND FLUIDS AND ENSURE CLEAR WATER DISCHARGE. SEE SPECIFICATION SECTION 33 2113 FOR ADDITIONAL REQUIREMENTS. THE SWPPP AND WWPPP SHALL COMPLY WITH REQUIREMENTS OF THE IOWA CODE, SPECIFICATIONS AND LOCAL ORDINANCES.
- CONTRACTOR SHALL FINISH GRADE AND SEED PER SPECIFICATIONS. TEMPORARY ROLLED EROSION CONTROL PRODUCT SHALL BE INSTALLED WHERE INDICATED.

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JOB NUMBER: 190261

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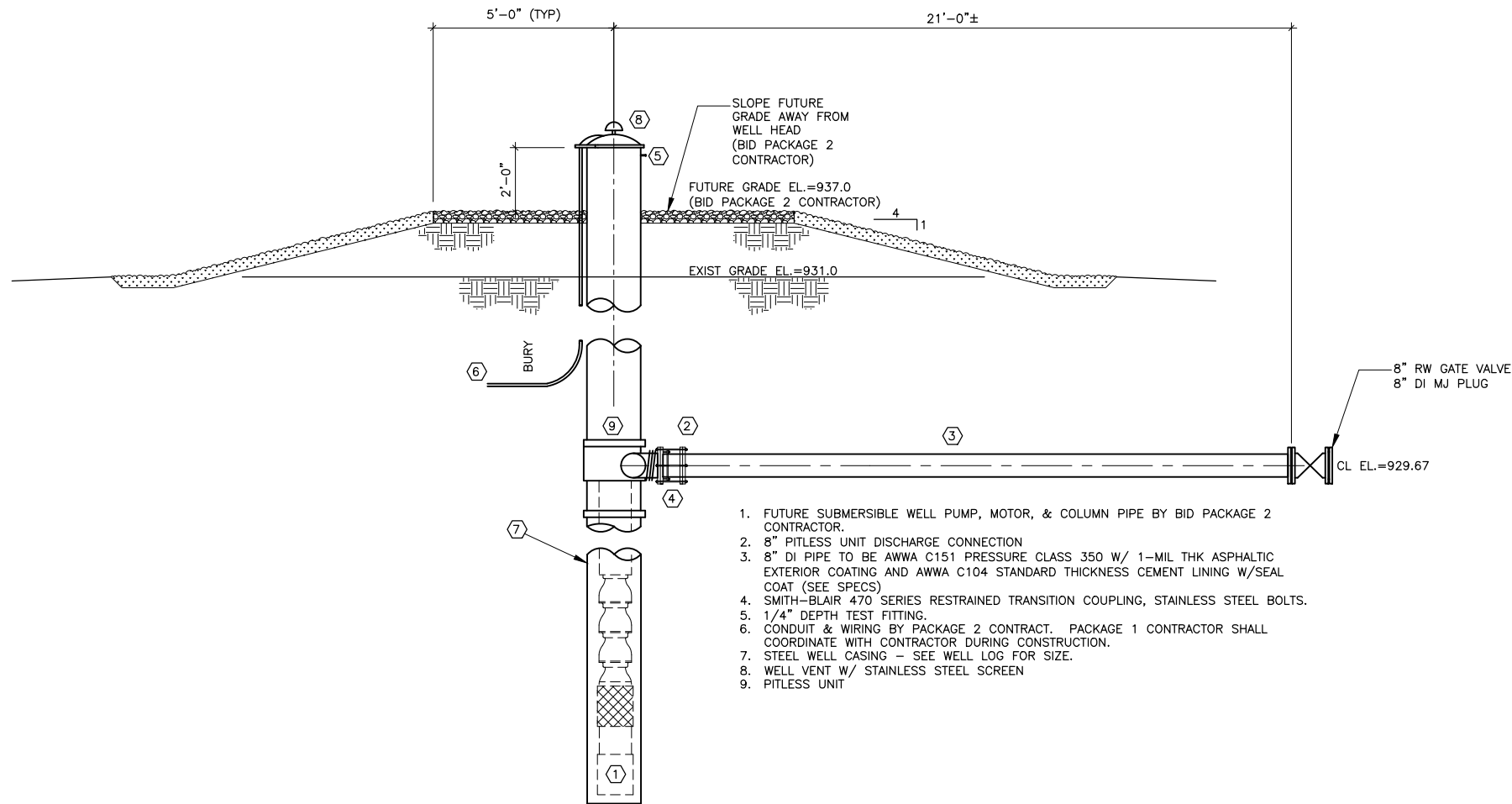
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JORDAN WELL NO. 6
BID PACKAGE NO. 1: WELL DRILLING
ANAMOSA, IOWA

C-CIVIL
SITE LAYOUT AND EROSION CONTROL PLAN

SHEET NO.
C.01



1 WELL SECTION
SCALE: NTS

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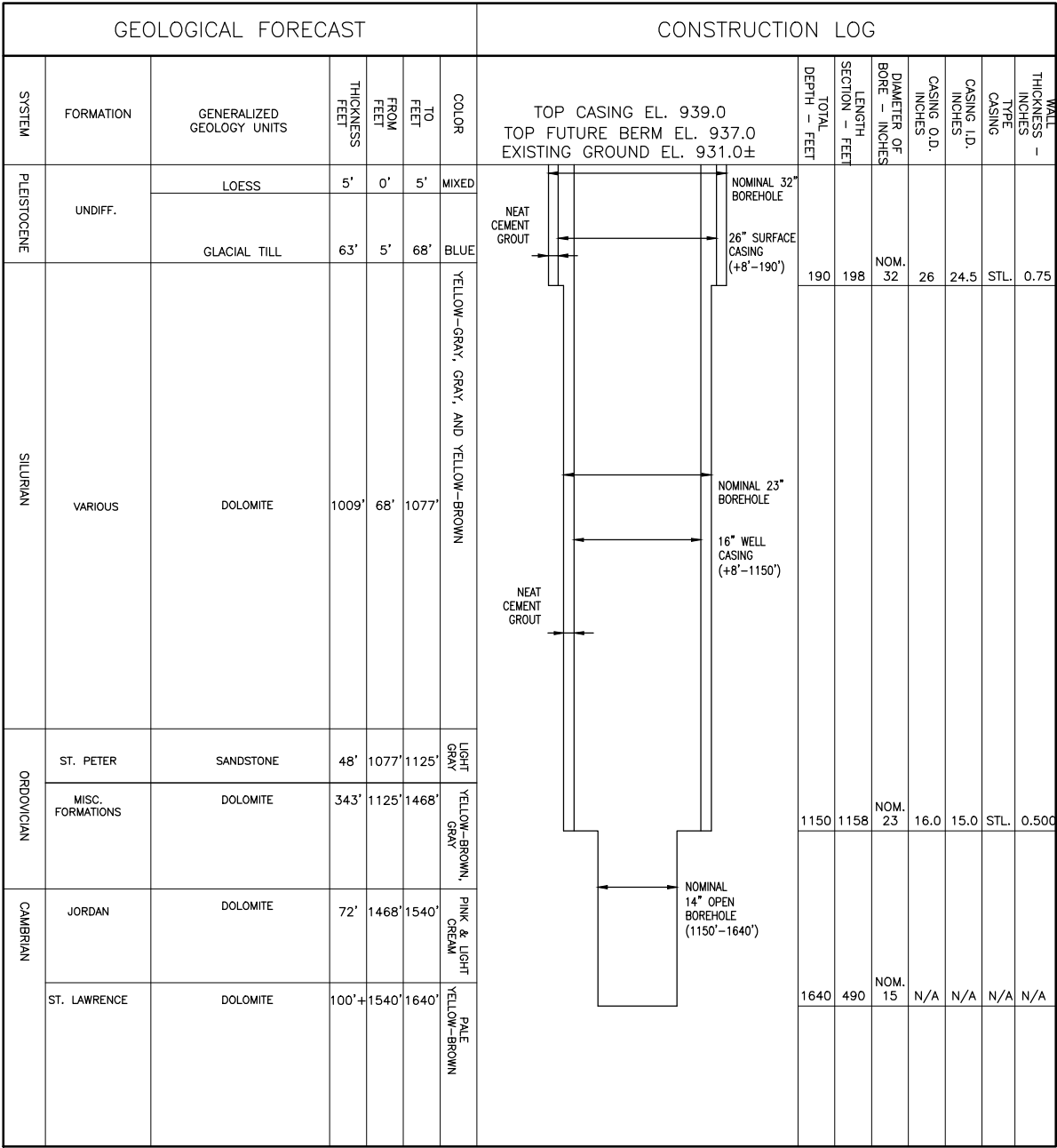


JORDAN WELL NO. 6
BID PACKAGE NO. 1: WELL DRILLING
 ANAMOSA, IOWA

C-CIVIL
WELL SECTION AND DETAILS

SHEET NO.
C.02

PROPOSED CONSTRUCTION LOG
JORDAN WELL No. 6



1 WELL BORING LOG
SCALE: NTS

Geologic Names (from Well 4)		Abrevated Strip-Log Description of Well 4 Lithology	From (feet below ground)	To (feet below ground)
Pleistocene undiff.		soil, sand & gravel& clay	0	170
		sand & silt grading to till		
		till, pale yellow orange, very sandy with small rocks		
		sand, very fine to coarse, mixed with silt		
		sand & gravel		
Silurian	"Silurian"	chert, white & slightly mottled, dolomite	170	418
		chert & dolomite		
		chert & dolomite, pale yellow, very porous		
		chert & dolomite		
		dolomite, steel gray, porous		
	Blanding	dolomite: crm, fevo siliceous zones; chert, white	418	500
	Edgewood Formation	dolomite, drab to pale yellow-brown, gray sulfide mottling, partings, very fine to fine crystalline, black specks	500	552
	Ft. Atkinson Limestone	dolomite, yellow-gray, very fine crystalline, slight argillaceous to dolomite, light gray, med. brown, poorly banded, med. crystalline; shale, green-gray to light olive gray, chunky, dolomitic	552	596
	Clermont Shale	shale, light to med. gray, chunky, dolomitic	596	655
		dolomite, yellow-gray to med. gray, very fine to fine crystalline, part argillaceous grading to shale		
	Elgin Limestone	shale, olive-gray to brown-gray, chunky, dolomitic	655	747
		dolomite, olive-brown, very argillaceous		
		dolomite grading to shale, dark yellow-gray to olive-brown, argillaceous		
	"unknown"	dolomite, shale, and clay, brown, hard with sub-discoidal gray clay, sub-nacreous luster.	747	850
		dolomite, cream, pale yellow brown, fine - med. crystalline, porous		
	Dunleith	chert, light gray to very light olive gray grading to light brown-gray, dolimitic, slightly porous	850	977
	Ion	dolomite to limestone, olive to yellow gray, sandy, slightly argillaceous, trace sphalerite or flourite?	977	994
	Guttenberg	not described	994	1001
	Spechts Ferry	limestone and shale, gray to olive-gray, poorly laminated, partly dolomitic	1001	1004
	Mcgregor	dolomite, yellow gray, dark gray mottling, fine to very fine crystalline, calcarous, slightly argillaceous	1004	1051
	Pecatonica	limestone and dolomite, pale to very pale yellow-brown, fine crystalline, calcarous, dark gray sulfide mottling	1051	1074
	Harmony Hill	shale and sandstone, light gray, med. crystalline, frosted & free grains	1074	1077
Prairie du Chien Group Lower Ordovician	St. Peter Sandstone	sandstone, light gray, subfrosted, part with siliceous matrix (5%)	1077	1125
	Willow River	dolomite, cream, pale yellow brown, fine sand grains, trace slightly siliceous	1125	1235
	New Richmond	chert and dolomite, as above; sandstone, light gray, dolomitic, fine to coarse	1235	1267
	Oneota	chert, light grey to white, mottled and dolomite, cream to yellow-gray, crystalline	1267	1434
Upper Cambrian	Jordan Formation	dolomite and sandstone, predominately free frosted sandstone	1434	1468
		dolomite and sandstone: dolomite, as above with some slightly pink	1468	1540
		dolomite, light cream, with very fine sand, frosted and free grains		
	St. Lawrence Formation	dolomite, pale yellow-brown, some gray-brown mottling, silty to sandy, with shaly zones	1540	1640 TD

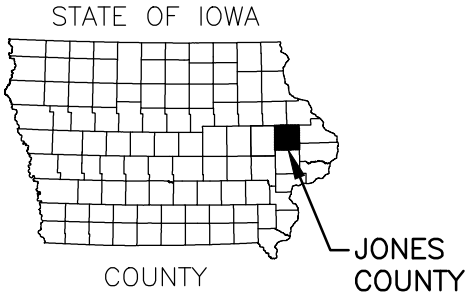
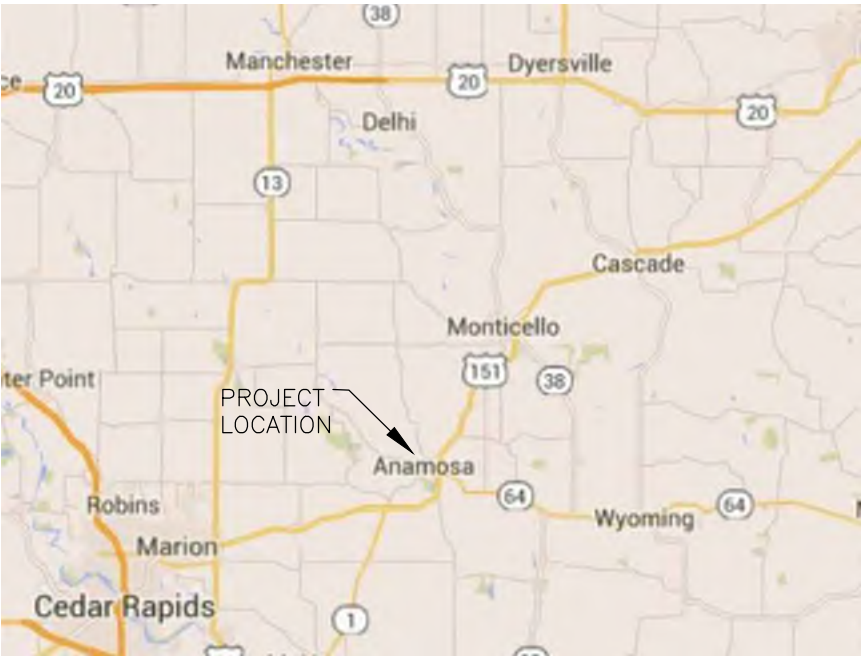
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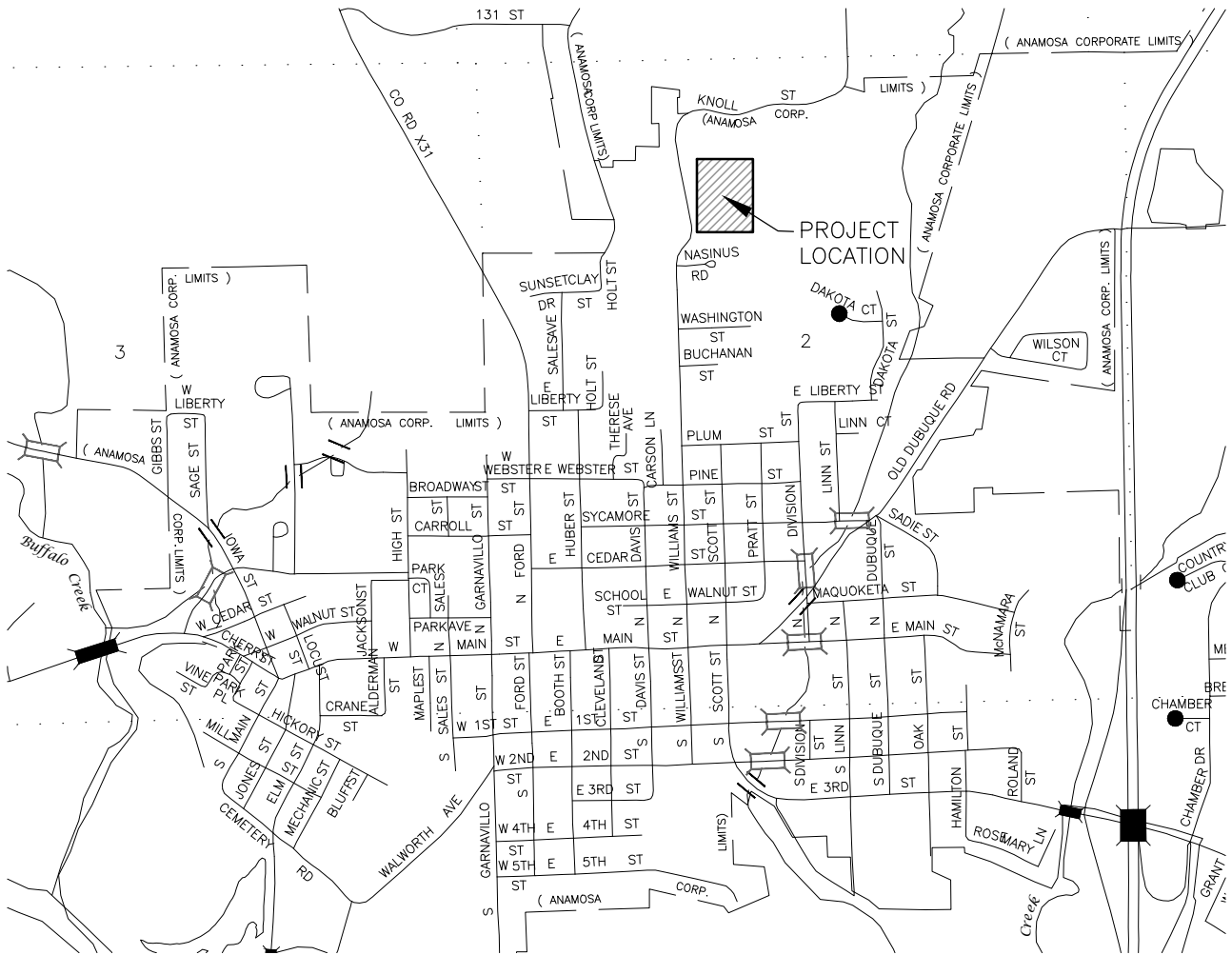


JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA
2021

VICINITY MAP



CITY MAP



UTILITY NOTES

WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.

THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT (800) 292-8989 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.

THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) LATEST REVISIONS - 2021 EDITION, APPLICABLE SUPPLEMENTAL SPECIFICATIONS, AND SPECIAL PROVISIONS, SHALL APPLY TO CONSTRUCTION ON THIS PROJECT.



8710 EARHART LANE SW | CEDAR RAPIDS, IOWA 52404

Phone: 319.841.4000 | Toll Free: 800.728.7805 | Fax: 319.841.4012 | HRGreen.com

CERTIFICATION

General, Civil, Process

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Joshua A. Scanlon 6/4/21
JOSHUA A. SCANLON, P.E. DATE
License Number: 22550
My license renewal date is December 31, 2021.
Pages or sheets covered by this seal:
ALL "G", "C" and "P" SHEETS

Landscape Architecture

I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly licensed professional landscape architect under the laws of the State of Iowa.

David L. Reitz 6/4/21
DAVID L. REITZ, P.L.A. DATE
License Number: 00642
My license renewal date is June 30, 2021.
Pages or sheets covered by this seal:
ALL "L" SHEETS

Architectural

I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly licensed architect under the laws of the State of Iowa.

Albert C. Buck 06.04.21
ALBERT C. BUCK, AIA DATE
License Number: 06302
My license renewal date is June 30, 2022.
Pages or sheets covered by this seal:
ALL "A" SHEETS

Structural

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Richard L. Ward 6/04/21
RICHARD L. WARD, P.E. DATE
License Number: 16392
My license renewal date is December 31, 2021.
Pages or sheets covered by this seal:
ALL "S" SHEETS

Mechanical

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Douglas A. Sullivan 6/04/21
DOUGLAS A. SULLIVAN, P.E. DATE
License Number: 15589
My license renewal date is December 31, 2022.
Pages or sheets covered by this seal:
ALL "M" SHEETS

Electrical

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Clyde J. Hale 6/04/21
CLYDE J. HALE, P.E. DATE
License Number: 13075
My license renewal date is December 31, 2021.
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APPROVED: JAS	JOB NUMBER: 190261	0 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
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JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

G - GENERAL
COVER SHEET

SHEET NO.
G.00

Xrefs: xgt-1-dh01; x0-0-D00

ABBREVIATIONS

Ⓐ	AT
A	AMPS, AMPERES
AAV	AUTOMATIC AIR VENT
AB	ANCHOR BOLT, AERATION BLOWER
AC	ALTERNATING CURRENT, AERATION CELL
ACC	ASPHALTIC CEMENT CONCRETE, AIR COOLED CONDENSOR
ACCU	AIR COOLED CONDENSOR UNIT
ACT	ACOUSTIC CEILING TILE
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR, AIR DRYER
ADH	ADHESIVE
ADP	AUTO DIALER PANEL
ADW	AVERAGE DRY WEATHER
A/E	ARCHITECTURAL / ENGINEERING FIRM
AF	AMPERE FRAME
AFD	ADJUSTABLE FREQUENCY DRIVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AG	ABOVE GRADE
AH	ACCESS HATCH
AHU	AIR HANDLING UNIT
AIC(S)	AMPERES INTERRUPTING CAPACITY, SYMMETRICAL
ALT	ALTERNATE
ALUM, AL	ALUMINUM
AMB	AMBIENT
ANCH,ANC	ANCHOR
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APVD	APPROVED
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
AWW	AVERAGE WET WEATHER
B	BOILER
BBH	BASEBOARD HEATER
BC	BARE COPPER, BACK OF CURB, BELT CONVEYOR
BCU	BLOWER COIL UNIT
BCV	BALL CHECK VALVE
BD BM	BOND BEAM
BDD	BACKDRAFT DAMPER
BF	BLIND FLANGE, BOTTOM FACE
BFP	BACKFLOW PREVENTOR, BELT FILTER PRESS
BFV	BUTTERFLY VALVE
BG	BELOW GRADE
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
B/	BOTTOM OF
BOD	BOTTOM OF DUCT,
BODS	5-DAY BIOLOGICAL OXYGEN DEMAND
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BOW	BOTTOM OF WALL
BRG	BEARING
BRK	BRICK
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BTWN	BETWEEN
BV	BALL VALVE
C	CONDUIT, CELSIUS, C STRUCTURAL SHAPE, CHILLER, CRITICAL SYSTEM
C TO C	CENTER TO CENTER
CAP	CAPACITY
CB	CIRCUIT BREAKER
CC	COILING COIL, CONSTRUCTION CASTING
CD	CEILING DIFFUSER, CENTRIFUGE DEWATERING
CF	COALESCING FILTER, CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CONCRETE HARDENER
CHNL	CHANNEL
CHWP	CHILLED WATER PUMP
CI	CAST IRON, CUBIC INCH
CIP	CAST IN PLACE, CLEAN IN PLACE, CAST IRON PIPE
CJ	CONTROL OR CONSTRUCTION JOINT
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING, COOLING
CLR	CLEAR, CLEARANCE
CMPR	COMPRESSOR
CMU	CONCRETE MASONRY UNIT
CND	CONDENSATE
CNTRL	CONTROL

CO	CLEAN OUT, CONDUIT ONLY
COL	COLUMN
COMP	COMPRESSION
CONC	CONCRETE
COND	CONDENSER, CONDUIT, CONDENSATE
CONN	CONNECTION
CONT	CONTINUE (OUS)
CONTR	CONTRACTOR
COORD	COORDINATE
COP	COEFFICIENT OF PERFORMANCE
CORP	CORPORATION
CP	CONDENSATE PUMP, COMPRESSOR, MASTER CLOCK AND PROGRAM SYSTEM
CPT	CONTROL POWER TRANSFORMER, CARPET
CR	CRANE, CONTROL RELAY
CRF	CHEMICAL RESISTANT FINISH
CRP	CONDENSATE RETURN PUMP
CRS	COURSES
CT	CURRENT TRANSFORMER, COOLING TOWER CONTROL PANEL
CTR(S)	CENTER(S)
CU	CONDENSING UNIT, COPPER
CUH	CABINET UNIT HEATER
CV	CHECK VALVE
CW	COLD WATER
CWP	CONDENSER WATER PUMP
CY	CUBIC YARD
D	DECANT
DA	DEARATOR
DB	DRY BULB TEMPERATURE, DIRECT BURIED, DECIBEL
DBL	DOUBLE
DC	DIRECT CURRENT
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DFT	DRY FILM THICKNESS
DG	DOOR GRILLE
DGS	DIGESTER SLUDGE
DI	DUCTILE IRON
DIA,ø	DIAMETER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DIR	DIRECTION
DL	DEAD LOAD
DN	DOWN
DP	DEWPOINT TEMPERATURE
DPR	DAMPER
DR	DRIVE
DRN	DRAIN
DS	DOWN SPOUT
DTL	DETAIL(S)
DWG	DRAWING(S)
DWL	DOWEL
DX	DIRECT EXPANSION
E	EQUIPMENT, EMERGENCY EQUIPMENT SYSTEM
EA	EACH, EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECC	ECCENTRIC
ECP	ENVIRONMENTAL CONTROL PANEL
EDH	ELECTRIC DUCT HEATER
EE	EMERGENCY EYE WASH
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN, EACH FACE
EFF	EFFICIENCY, EFFLUENT
EG	EXHAUST GRILLE, ENGINE GENERATOR
EGB, EPT	EPOXY PAINT
EIL	EQUIPMENT INTERLOCK
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATION
EM	EMERGENCY SYSTEM
EMBED	EMBEDMENT
ENCL	ENCLOSURE
ENG	ENGINEER
EOD	EDGE OF DECK
EP	EXPLOSION PROOF, EPOXY PAINT
EQ, EQUIP	EQUAL, EQUIPMENT
EQ SP	EQUALLY SPACED
EQMT	EQUIPMENT
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETM	ELAPSED TIME METER
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EW	EACH WAY
EWG	ELECTRIC WATER COOLER
EWEF	EACH WAY EACH FACE
EWH	ELECTRIC WATER HEATER
EWI	ENTERING WATER TEMPERATURE
EXIST, EXST	EXISTING

EXP (JT)	EXPANSION, EXPANSION JOINT
EXT	EXTERIOR, EXTERNAL
F	DEGREES FAHRENHEIT, FLUORIDE
F	FACE AREA, FREE AREA, FIRE ALARM
FAB	FABRICATE(D)
FAC	FLANGED ADAPTOR COUPLING
FB	FLAT BAR, FLOOR BEAM
FC	FAN COIL UNIT, FLEXIBLE CONNECTION
FCA	FLANGE COUPLING ADAPTOR
FCU	FAN COIL UNIT
FD	FIRE DAMPER, FLOOR DRAIN
FDN	FOUNDATION
FE	FLANGED END, FIRE EXTINGUISHER, FLOW ELEMENT
FES	FLARED END SECTION
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FIL	FILTRATE
FIN	FINISH
FL	FLOW LINE, FLUORESCENT
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FLUOR	FLUORESCENT
FNDN	FOUNDATION
FM	FLOW METER
FMC	FLOOR MOUNTED CLEAN OUT
FMN	FIRE MONITOR NOZZLE
FO	FIBER OPTICS
FOB	FLAT ON BOTTOM
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STEEL
FOT	FLAT ON TOP
FOW	FACE OF WALL
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FR	FLOOR REGISTER
FRP	FIBERGLASS REINFORCED PLASTIC OR PNL
FS	FLOOR STAIN
FT	FEET, FLOW TRANSMITTER
FTG	FOOTING
FUR	FURNACE
FV	FIELD VERIFY
G	GATE, GROUND
GA	GAUGE, GAGE
GAL	GALLONS
GALV	GALVANIZED
GB	GYPSTUM BOARD
GC	GAS CHROMATAGRAPH (FLOW COMPUTER)
GEN	GENERATOR
GF	CIRCUIT TO GND FAULT CIRCUIT BREAKER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
GFS	GROUND FAULT SLAVE (PROTECT UPSTRM)
GL	GLASS
GND	GROUND
GP	GRIT PUMP
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS, GRINDER, GUARD RAIL
GRTG	GRATING
GS	GRIT SCREW CONVEYOR
GU	GRIT UNIT
GV	GATE VALVE
GW	GYPSTUM WALL BOARD
GWV	GRASS WATERWAY
GYP	GYPSTUM
HB	HOSE BIBB
HC	HEATING COIL, HANDICAP (PED)
HCAP	HANDICAP (PED)
HCU	HOLLOW CORE UNIT
HD	HEAD
HDPE	HIGH DENSITY POLYETHYLENE
HDR	HEADER
HG	MERCURY
HGR	HANGER
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HM	HOLLOW METAL
HMA	HOT MIX ASPHALT
HOA	HAND OFF AUTOMATIC
HOR()Z	HORIZONTAL
HP	HORSEPOWER, HIGH POINT
HPF	HORIZONTAL PRESSURE FILTER
HPG	HIGH PRESSURE GAS
HPS	HIGH PRESSURE SODIUM
HR	HOUR, HOSE REAL, HAND RAIL
HRTU	HEATING RECOVERY UNIT
HSGL	HEAT STRENGTHENED GLASS
HSS	HOLLOW STRUCTURAL SHAPE
HST	HOIST
HT	HEIGHT, HEATER
HTG	HEATING
HTP	HEAT PUMP
HTR	HEATER
HU	HUMIDIFIER

HVAC	HEATING, VENTILATING, AIR CONDITIONING
HW	HOT WATER
HWC	HOT WATER RECIRCULATED
HWL	HOT WATER LEVEL
HWP	HEATING WATER PUMP
HWR	HOT WATER RETURN
HWS	HIGH WATER SURFACE
HWUH	HOT WATER UNIT HEATER
HX	HEAT EXCHANGER
HY	HYDRANT
HZ	HERTZ
IBC	INTERNATIONAL BUILDING CODE
IC	INTERCOM SYSTEM
ID	INSIDE DIAMETER
IDOT	IOWA DEPARTMENT OF TRANSPORTATION
IE	INVERT ELEVATION
IFC	INTERNATIONAL FIRE CODE, ISSUED FOR CONSTRUCTION
I/F, IF	INSIDE FACE, INSERTION FLOW METER
IMC	INTERNATIONAL MECHANICAL CODE
INCAND	INCANDESCENT
INC	INCHES, INCUBATOR
INCAND	INCANDESCENT
INF	INFLEUNT
INSUL	INSULATION
INT	INTERIOR
INVT	INVERT
IPC	INTERNATIONAL PLUMBING CODE
ITC	INSTRUCTION TO CONTRACTOR
JB	JUNCTION BOX
JS	JANITOR SINK
JT, JNT	JOINT
K	STRUCTURAL BAR JOIST SHAPE, KILO
KB	KNEE BRACE
KOMIL	THOUSAND CIRCULAR MILS
KIP	THOUSAND POUNDS
KVA	KILOVOLT — AMPERES
KW	KILOWATTS
KWH	KILOWATT — HOUR
L	LOUVER, ANGLE, LIFE SAFETY SYSTEM
LA	LIGHTNING ARRESTOR
LAB	LABORATORY
LAP	LEVEL ALARM PANEL
LAT	LEAVING AIR TEMP, LATENT, LATITUDE
LAV	LAVATORY
LB(S)	POUND(S)
LD	LINEAR DIFFUSER
LE	LAB EQUIPMENT
LF	LINEAR FEET
LFG	LANDFILL GAS
LFG	LANDFILL GAS (HIGH PRESSURE)
LFL	LANDFILL GAS (LOW PRESSURE)
LHR	LATENT HEAT RATIO
LIN	LINEAR
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNTL	LINTEL
LONG	LONGITUDINAL
LOS	LOCKOUT STOP PUSH—BUTTON
LP	LOW POINT, LOUVERED PENTHOUSE
LPG	LOW PRESSURE GAS
LRA	LOCKED ROTOR AMPS
LS	LIMIT SWITCH
LT	LEVEL TRANSDUCER, TRANSMITTER
LTG	LIGHTING
LV	LOUVER
LWL	LOW WATER LEVEL
LWS	LOW WATER SURFACE
LWT	LEAVING WATER TEMPERATURE
M	METER, MOTOR
MA	MILLIAMPERES
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAU	MAKEUP AIR UNIT
MAX	MAXIMUM
MB	MACHINE BOLTS
MBH	ONE THOUSAND BTUH
MC	MASTER CLOCK SYSTEM
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MCM	MOTORIZED DAMPER
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MG	MILLION GALLON
MGD	MILLION GALLONS PER DAY
MH	MANHOLE, METAL HALIDE
MIN	MINIMUM
MIRR	MIRRORED
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MK	MARK

MM	MAG METER
MNT	MOUNT, MOUNTED
MO	MASONRY OPENING
MOC	MAXIMUM OVERCURRENT PROTECTION
MP	METERING PUMP
MS	MECHANICAL FINE SCREEN
MT	EMPTY, EMPTY CONDUIT
MTD	MOUNTED
MTL	METAL
MW	MASONRY WALL
MWW	MAXIMUM WET WEATHER
MX	MIXER
N	NEUTRAL
N/A	NOT APPLICABLE
NC	NOISE CRITERIA, NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEG	NEGATIVE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHTLIGHT
NO	NORMALLY OPEN, NUMBER
NOM	NOMINAL
NPS	NOMINAL PIPE SIZE
NPT	NATIONAL PIPE THREAD
NRP	NON-REMOVABLE PIN
NSG	NON-SHRINK GROUT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTDOOR AIR TEMPERATURE
OB	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OED	OPEN END DUCT
O/F, OF	OUTSIDE FACE, OPEN FACE, OVERFLOW
OH	OVERHEAD
OHE	OVERHEAD ELECTRIC
OL	MOTOR OVERLOAD CONTACTS
O TO O	OUT TO OUT
OPNG	OPENING
OPP	OPPOSITE
OS	OIL SEPARATOR
OSB	ORIENTED STRAND BOARD
P	POLE, PUMP, PILASTER OR PIER
PAGING	PAGING SYSTEM
PART	PARTIAL
PB	PUSHBUTTON, PULL BOX, PANEL BOARD
PBD	PARALLEL BLADE DAMPER
PC	PRECAST CONCRETE
PCC	PORTLAND CEMENT CONCRETE
PCST	PRE CAST
PD	PRESSURE DROP
PE	PLAIN END, POLYETHYLENE
PERF	PERFORATED
PERP	PERPENDICULAR
PF	PARSHALL FLUME
PFJ	PRE MOLDED JOINT FILLER
PH	PHASE
PHWW	PEAK HOURLY WET WEATHER
PJF	PREFORMED JOINT FILLER
PL	PLATE
PLWD	PLYWOOD
PNL	PANEL
POJ	PUSH ON JOINT
POT	POINT OF TANGENT
PPM	PARTS PER MILLION
PR	PAIR
PROJ	PROJECTION
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	PSI, ABSOLUTE
PSIG	PSI, GAGE
PSW	PLANT SERVICE WATER
PT	POTENTIAL TRANSFORMER
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	RISER(S), RADIUS, RED
RA	RETURN AIR
RAC	ROOM AIR CONDITIONER
RAD	RADIUS
RAS	RETURN ACTIVATED SLUDGE
RB	ROOF BEAM, RUBBER BASE
RC	REINFORCED CONCRETE
RCF	REINFORCED CONCRETE PIPE
RCMD	RECOMMENDED(ATION)
RD	ROOF DRAIN
RDT	ROTARY DRUM THICKENER
RECIRC	RECIRCULATE
RED	REDUCER
REF	REFERENCE
REINF	REINFORCE(ING)
REQ(D)	REQUIRE(D)
REV	REVISED

RF	RETURN FAN
RFI	REQUEST FOR INFORMATION
RG	RETURN GRILLE
RH	RELIEF HOOD, RELATIVE HUMIDITY
RHC	REHEAT COIL
RJ	RESTRAINED JOINT
RM	ROOM
RO	ROUGH OPENING, REVERSE OSMOSIS
ROS	ROTATED OUT OF SECTION
ROW	RIGHT OF WAY
RP	RETURN PUMP
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER, RAILROAD
RS	RAW SEWAGE
RTU	ROOFTOP UNIT
RW	RESILIENT WEDGE
S	STRUCTURAL S SHAPE, LIFE SUPPORT SYSTEM
S&F	SECURITY & FIRE PANEL
SA	SUPPLY AIR, SAMPLER
SAGR	SUBMERGED ATTACHED GROWTH REACTOR
SAN	SANITARY, SANITARY SEWER
SAT	SATURATION
SB	SOIL BORING, SPLITTER BOX
SBR	SEQUENTIAL BATCH REACTOR
SC	SAW CUT, SCREEN CONVEYOR, SAGR CELL
SCFM	CFM, AT STANDARD CONDITIONS
SCH	SCHEDULE
SCL	SECONDARY CLARIFIER
SD	SMOKE DAMPER, SLUDGE DRYER
SDC	SLUDGE SCREW CONVEYOR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SEN	SENSIBLE
SF	SUPPLY FAN, SQUARE FOOT
SG	SUPPLY GRILLE, SLIDE/SLUICE GATE
SH	SHIELDED, SHOWER, SHEET
SJ	SOFT JOINT
SHR	SENSIBLE HEAT RATIO
SHT	SHEET
SIM	SIMILAR
SK	SINK
SL	SNOW LOAD, SELF LEVELING
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SMPL	SAMPLE
SP	STATIC PRESSURE, SUMP PUMP, SPACE(S)
SPD	SLUDGE PUMP
SPEC(S)	SURGE PROTECTOR DEVICE
SPM	SPECIFICATION(S)
SQ	SUBMERSIBLE PROPELLER MIXER
SQ FT	SQUARE
SR	SQUARE FEET
SS	SUPPLY REGISTER
SSH	STAINLESS STEEL, SUCTION SEPARATOR
SSL	SAFETY SHOWER
SST	SECONDARY SLUDGE
STC	SATURATED SUCTION TEMPERATURE
STD	SOUND TRANSMISSION CLASS
STG	STOP GATE
STL	STANDARD
STR	STOP GATE
STRUCT	STEEL
SUCT	STRIRUP
SW	STRUCTURE
SWPPP	SUCTION
SYMM	SWITCH, SAMPLING
T	STORM WATER POLLUTION PREVENTION PROGRAM
T&B	SYMMETRICAL
TA	TEMPERATURE, THREAD, TREAD
TACH	TOP AND BOTTOM
TB	TELEPHON SYSTEM—TA,TB,TC,ETC. INDICATES TO TERMINAL CABINET OR MOUNTING BOARD
TBS	TA,TB,TC, ETC.
TCP	TACHOMETER
TD	TERMINAL BOARD
TDH	THICKENED BLENDED SLUDGE
TEL	TEMP CONTROL PANEL
TEMP	TEMPERATURE DIFFERENCE, TRENCH DRAIN
TF	TOTAL DYNAMIC HEAD
TFR	TELEPHONE
TG	TEMPERATURE, TEMPORARY, TEMPERED
TGL	TOP FACE
THK	TRICKLING FILTER RECYCLE
TK	TURBINE GENERATOR
TMW	TEMPERED GLASS
T/	THICK
TOC	TANK
TOD	THERMOSTATIC MIXING VALVE
TONS	TOP OF
TOS	TOP OF CONCRETE
TOW	TOP OF DUCT
TP	TONS OF REFRIGERATION
TR	TOP OF STEEL
TRANSF	TOP OF WALL
TRANSV	TWISTED PAIR
TSG	TREAD(S)

NOTES:

1. NOT ALL ABBREVIATIONS, DESIGNATIONS OR SYMBOLS SHOWN IN THESE LISTS MAY BE USED IN THIS PROJECT. CONTACT ARCHITECT OR ENGINEER FOR CLARIFICATION OF ANY DISCREPANCIES.
2. ABBREVIATION DEFINITION SHALL BE SELECTED BY APPROPRIATE DISCIPLINE AND CONTEXT OF INTENDED NOTE OR TEXT.

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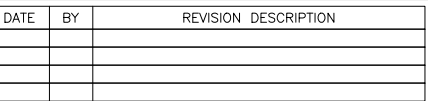
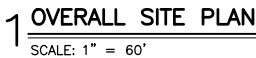
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JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA



JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

G - GENERAL

OVERVIEW PLAN, NOTES, AND CONTROL

SHEET NO.
G.03

1. CONTRACTOR SHALL CONFINE ALL ACTIVITIES TO THE RIGHT-OF-WAY OR INDICATED CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED. NO MATERIALS, EXCAVATED MATERIAL, OR EQUIPMENT SHALL BE STORED ON, PARKED ON, DEPOSITED ON, OR DRIVEN OVER ANY PRIVATE PROPERTY UNLESS WRITTEN AUTHORIZATION IS OBTAINED FROM THE PROPERTY OWNER BY THE CONTRACTOR. A COPY OF SUCH WRITTEN AGREEMENT SHALL BE PROVIDED TO THE CITY AND THE ENGINEER. UPON COMPLETION, CONTRACTOR SHALL PROVIDE TO THE CITY AND THE ENGINEER A WRITTEN RELEASE SIGNED BY THE PROPERTY OWNER.
2. CONTRACTOR SHALL COORDINATE WITH THE CITY TO ESTABLISH A CONSTRUCTION STAGING AND STORAGE AREA. ALL CONTRACTOR MATERIALS, EQUIPMENT, JOB TRAILERS, EMPLOYEE VEHICLE PARKING, ETC. SHALL BE LOCATED IN THIS DESIGNATED AREA. CITY IS NOT RESPONSIBLE FOR SECURED/UNSECURED MATERIALS STORED ONSITE.
3. ANY DAMAGE TO STREETS AND ROADS CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT NO COST TO THE OWNER, EXCEPT AS NOTED ON PLANS.
4. CONTRACTOR SHALL REGULARLY CHECK VERTICAL AND HORIZONTAL ALIGNMENT. ALL ELEVATIONS ARE NAVD83 DATUM. THE HORIZONTAL COORDINATE SYSTEM IS NAD83 IOWA STATE PLANE, NORTH ZONE, US SURVEY FEET.
5. EXISTING UTILITIES, STRUCTURES, TREES, AND PAVEMENT LOCATIONS SHOWN ARE APPROXIMATE. THE COMPLETENESS AND ACCURACY OF THIS INFORMATION IS NOT GUARANTEED. CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATIONS OF THESE OR ANY OTHER EXISTING FACILITIES AS REQUIRED TO COMPLETE THE WORK.
6. CERTAIN RELOCATIONS OF EXISTING UTILITIES MAY BE REQUIRED AS A RESULT OF CONSTRUCTION OF THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE REQUIRED WORK WITH THE RESPECTIVE UTILITY COMPANIES IN ORDER TO AVOID UNNECESSARY DELAYS TO CONSTRUCTION. THE CONTRACTOR SHALL WORK CLOSELY WITH THE UTILITIES TO LOCATE, PLAN, AND RELOCATE THESE FACILITIES IN A MANNER THAT MINIMIZES UTILITY SHUT-OFF AND KEEPS THE PROJECT ON SCHEDULE.
7. WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.
8. IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES NOTICE TO IOWA ONE CALL NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND LEGAL HOLIDAYS.
9. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS NECESSARY TO PERFORM WORK. ALL TREES, STUMPS, BRUSH AND DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF SO THAT THEY WILL NOT INTERFERE WITH CONSTRUCTION OR PROPER FUNCTIONING OF THE WELL, WELL EQUIPMENT, AND WELL HOUSE.
10. CONTRACTOR SHALL CHECK FOR THE PRESENCE OF ANY FIELD OR DRAIN TILE AND EXCAVATION PROBLEMS. A RECORD OF ANY FIELD TILE ENCOUNTERED SHALL BE MADE AND INCLUDE LOCATION BY COORDINATES, TYPE OF PIPE, AND TYPE OF REPAIR MADE. ALL TILE LINE LOCATIONS SHALL BE PROTECTED.
11. CONTRACTOR SHALL HAUL AND PROPERLY DISPOSE OF EXCESS MATERIAL (INCLUDING EXCAVATED MATERIAL OR BROKEN CONCRETE) WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK ON THIS PROJECT. NO PAYMENT WILL BE ALLOWED FOR THE MATERIAL DISPOSED OF AND NOT INCORPORATED INTO THE WORK. NO MATERIAL SHALL BE PLACED WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY STATED IN THE PLANS OR APPROVED BY THE ENGINEER. UNLESS OTHERWISE DIRECTED OR AUTHORIZED, ALL ASPHALTIC CEMENT CONCRETE AND OTHER BITUMINOUS MATERIALS WHICH ARE NOT SPECIFICALLY ADDRESSED OR DESCRIBED IN THE PLANS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL DISPOSE OF THESE MATERIALS IN ACCORDANCE WITH CURRENT RULES AND REGULATIONS OF THE IOWA DEPARTMENT OF NATURAL RESOURCES.
12. REMOVAL OF FENCE POSTS, SHALL BE FILLED AND CONSOLIDATED TO FINISHED GRADE AS DIRECTED BY THE ENGINEER TO PREVENT FUTURE SETTLEMENT. THE VOIDS SHALL BE FILLED AS SOON AS PRACTICAL -- PREFERABLY THE DAY CREATED AND NOT LATER THAN THE FOLLOWING DAY. ANY PORTION OF THE RIGHT-OF-WAY OR PROJECT LIMITS (INCLUDING BORROW AREAS AND OPERATION AREAS) DISTURBED BY ANY SUCH OPERATIONS SHALL BE RESTORED TO AN ACCEPTABLE CONDITION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
13. DURING REMOVAL AND CONSTRUCTION, THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO CONTROL DUST SPREADING FROM ALL WORK AND STAGING AREAS.
14. CONTRACTOR SHALL PREPARE, IMPLEMENT, AND MANAGE THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), CONDUCT ALL REQUIRED INSPECTIONS, AND MAINTAIN ASSOCIATED EROSION CONTROL. THE CONTRACTOR SHALL HAVE A COPY OF THE SWPPP ON-SITE DURING ALL CONSTRUCTION ACTIVITIES.
15. CONTRACTOR TO MAINTAIN SURFACE DRAINAGE OF THE SITE DURING CONSTRUCTION.
16. THE TOP EIGHT (8) INCHES OF THE DISTURBED AREAS SHALL BE FREE OF ROCK AND DEBRIS AND SHALL BE SUITABLE FOR THE ESTABLISHMENT OF VEGETATION UNLESS NOTED OTHERWISE, SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE CITY.
17. CONTRACTOR SHALL KEEP AND UPDATE A SET OF AS-CONSTRUCTED DRAWINGS. CONTRACTOR SHALL SUBMIT THE AS-CONSTRUCTED DRAWINGS TO THE ENGINEER UPON PROJECT COMPLETION.
18. ALL PROPERTY CORNERS DISTURBED BY CONSTRUCTION SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
19. CONTRACTOR'S REPRESENTATIVE SHALL BE PRESENT AT THE FINAL INSPECTION.
20. SEE SPECIFICATIONS SECTION 01 1000 FOR GENERAL WORK SEQUENCE.

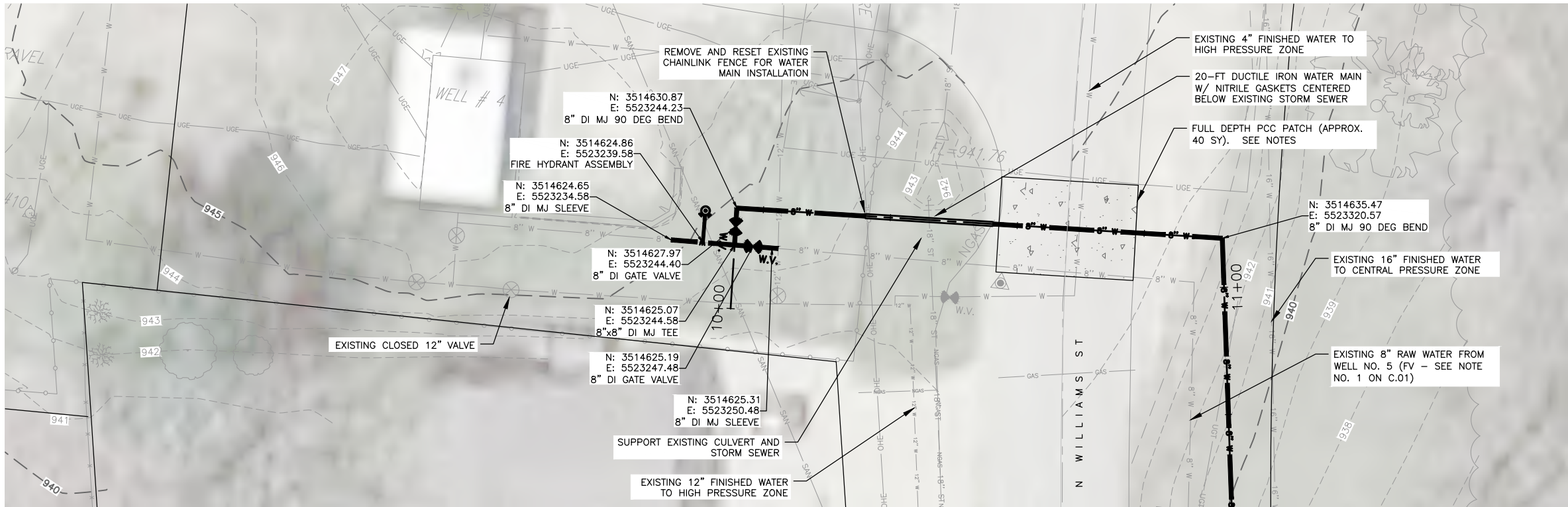
SURVEY CONTROL POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
59	3514702.02	5523283.59	946.11	CP-SIR59
102	3514616.52	5523133.97	0.00	CP 10 SET LANDSCAPE NAIL 9 FEET NORTH OF TORNADO SIREN
103	3514688.64	5522959.33	943.13	CP 11 BENCHMARK & HORIZONTAL CONTROL - SET X ON TOP OF WEST WATER TANK
500	3514624.22	5523286.81	944.24	CP 500 SET MAG NAIL
501	3513984.35	5523425.99	924.28	CP 501 SET MAG NAIL
502	3514301.87	5523447.16	940.20	CP 502 HUB
5184	3514587.44	5523058.30	935.56	CP-SN
5185	3514680.39	5523239.49	946.53	CP SN
7230	3514674.82	5523044.37	943.57	CP 1025

ELEVATIONS ARE NAVD 88
IOWA STATE PLANE NORTH COORDINATES
HORIZONTAL COORDINATE SYSTEM IS NAD 83 (2011)

DATUM NOTE:
1998 WTP PLAN SET DATUM 91.00' FIN FLR =
2016 WTP EXPANSION PLAN SET DATUM 945.33'
EXISTING FIN FLR. A DIFFERENCE OF 854.33'

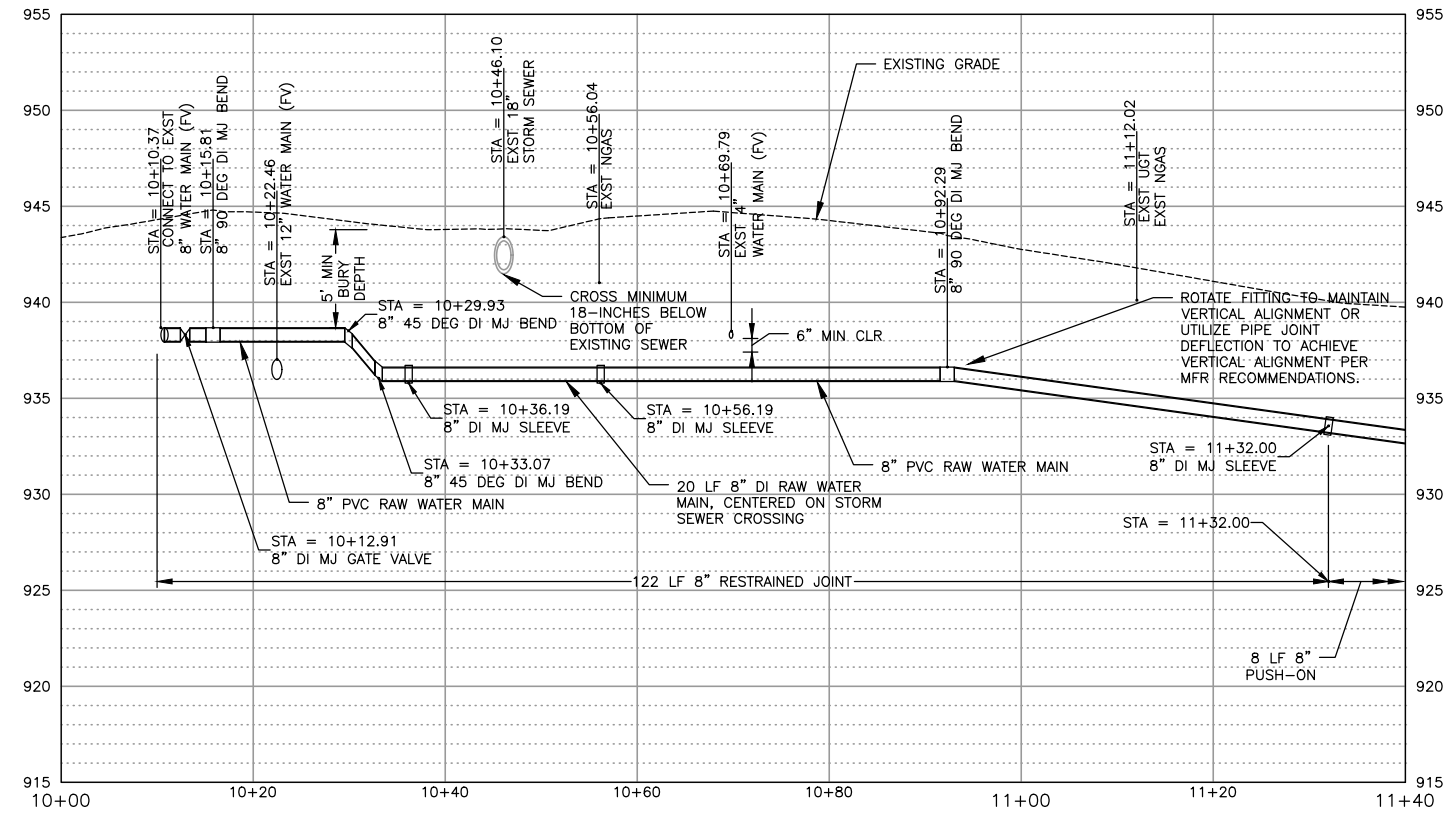
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CONTROL.dwg



1 RAW WATER MAIN – PLAN STA 10+00 TO STA 11+40

SCALE: 0 10'

- NOTES:
- CONSTRUCTION SHALL BE STAGED TO LIMIT TRAFFIC CLOSURES TO ONE LANE AT A TIME. PROVIDE TRAFFIC CONTROL SIGNAGE, BUFFER SPACE, AND TRAFFIC CONTROL DEVICES, AS REQUIRED BY SUDAS DIVISION 8030 AND PER SUDAS FIGURE 8030.104.
 - FULL DEPTH PCC PAVEMENT PATCH SHALL BE IN ACCORDANCE WITH SUDAS 7040. PATCH SHALL BE 2" GREATER THAN EXISTING PAVEMENT THICKNESS, MINIMUM 9".



2 RAW WATER MAIN – PROFILE STA 10+00 TO STA 11+40

SCALE: 0 10' HORIZ 0 5' VERT

Xref: xgl-1-dn01: xco-0-cont-WTP; xco-0-base-WTP; xco-0-cont; xc-1-align; xc-1-prof; xc-0-dsgr; xco-0-AERIAL; xco-0-parcels-0US; xco-0-limits

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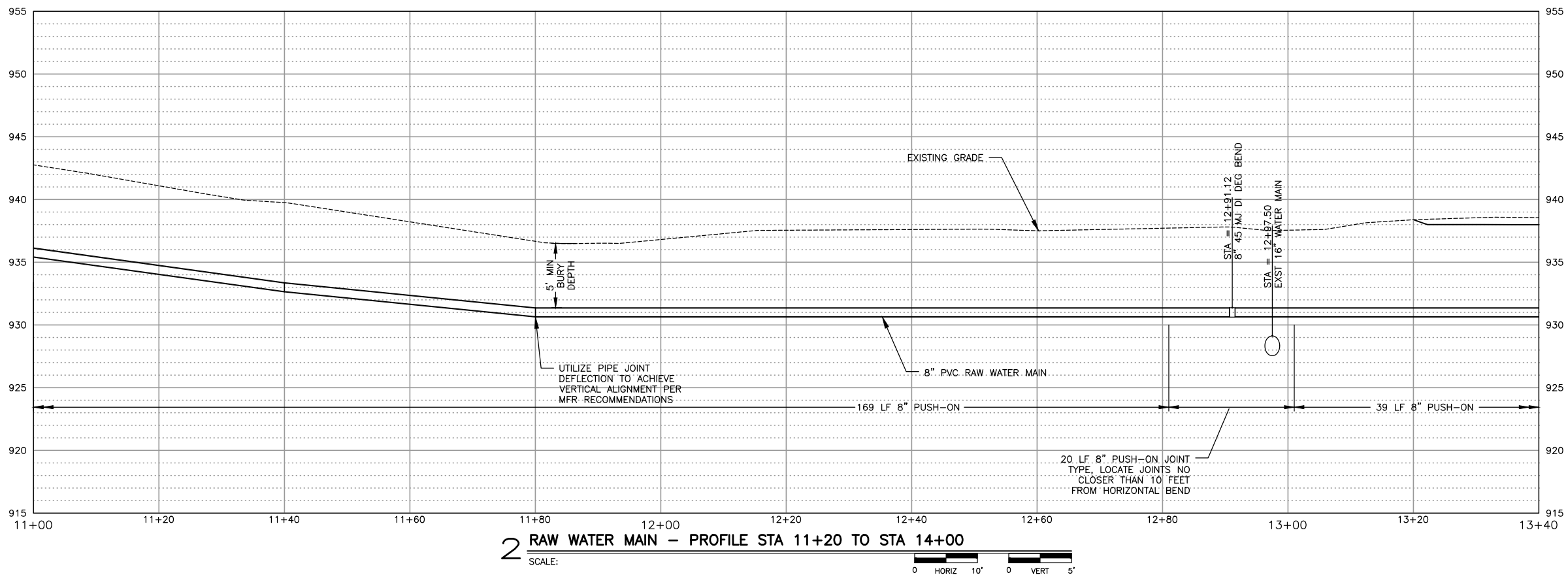
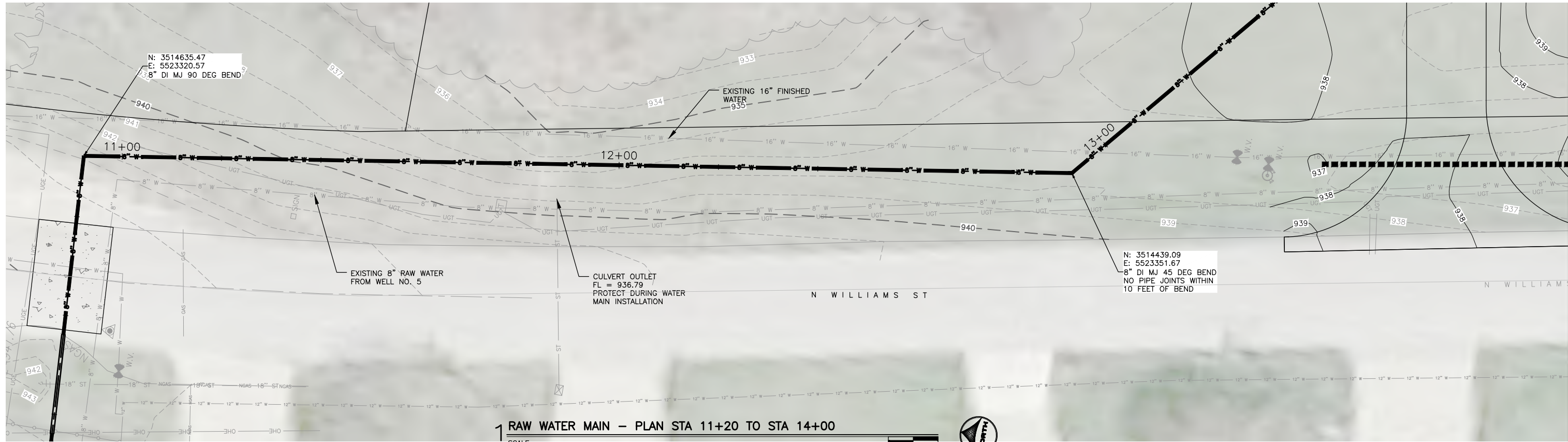
NO.	DATE	BY	REVISION DESCRIPTION



JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

C – CIVIL
RAW WATER MAIN PLAN & PROFILE

SHEET NO.
C.02



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0" = 1"
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ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION



JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

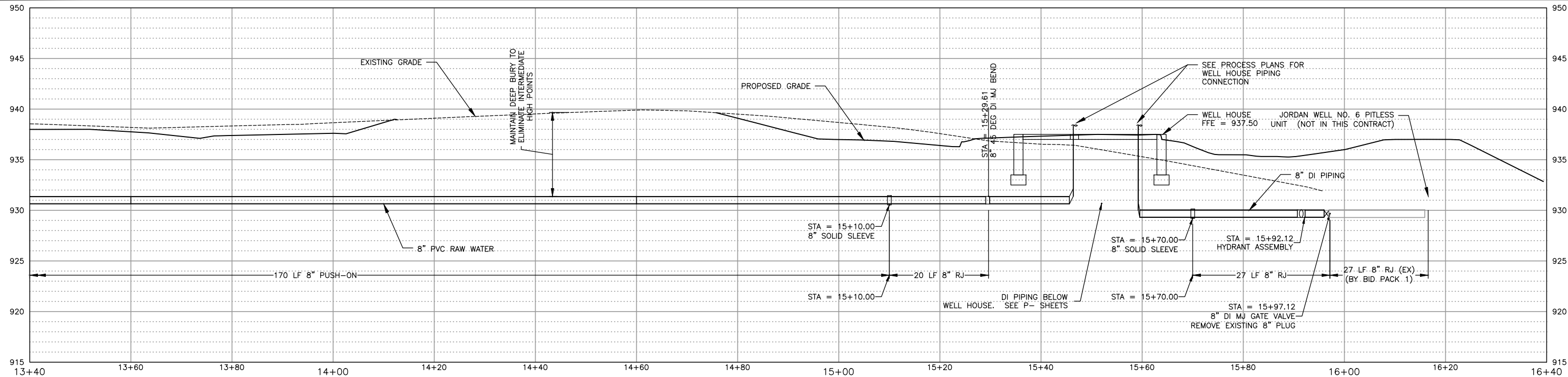
C - CIVIL
RAW WATER MAIN PLAN & PROFILE

SHEET NO.
C.03



- NOTES:
1. COORDINATE WATER MAIN INSTALLATION WITH BUILDING AND BURIED PROCESS PIPING INSTALLATION.
 2. COORDINATE WATER MAIN INSTALLATION AND SEQUENCING WITH BID PACKAGE 1 CONTRACTOR.
 3. TREE CLEARING IS REQUIRED FOR SOME WATER MAIN INSTALLATION, SEE SPECIFICATIONS FOR OVERALL PROJECT SCHEDULE AND SEQUENCING.

1 RAW WATER MAIN – PLAN STA 13+00 TO STA 15+60



2 RAW WATER MAIN – PROFILE STA 13+00 TO STA 15+60

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APPROVED: JAS JOB NUMBER: 190261
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IF NOT ONE INCH,
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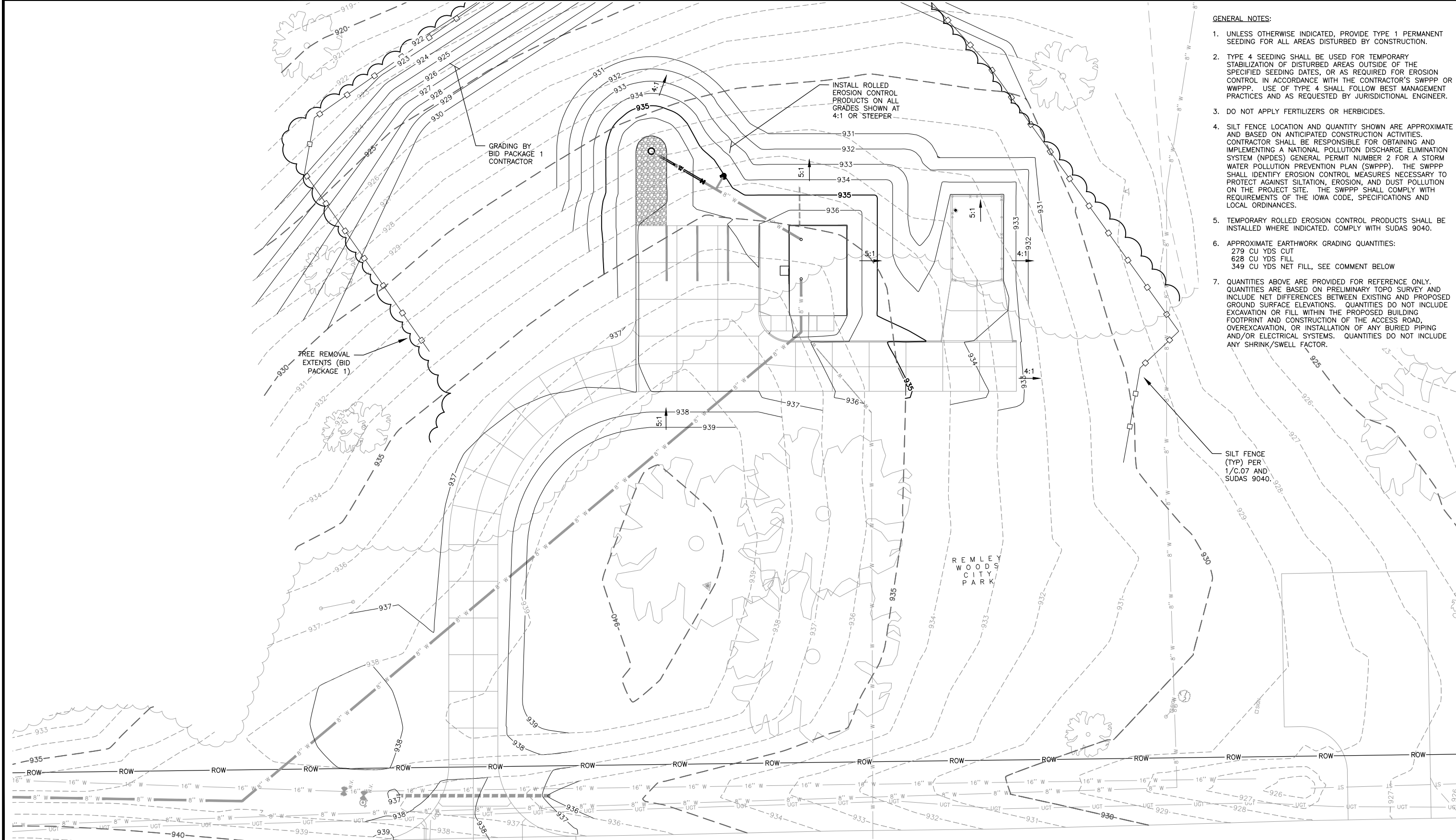
NO.	DATE	BY	REVISION DESCRIPTION



JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

C – CIVIL
RAW WATER MAIN PLAN & PROFILE

SHEET NO.
C.04



- GENERAL NOTES:
- UNLESS OTHERWISE INDICATED, PROVIDE TYPE 1 PERMANENT SEEDING FOR ALL AREAS DISTURBED BY CONSTRUCTION.
 - TYPE 4 SEEDING SHALL BE USED FOR TEMPORARY STABILIZATION OF DISTURBED AREAS OUTSIDE OF THE SPECIFIED SEEDING DATES, OR AS REQUIRED FOR EROSION CONTROL IN ACCORDANCE WITH THE CONTRACTOR'S SWPPP OR WWPPP. USE OF TYPE 4 SHALL FOLLOW BEST MANAGEMENT PRACTICES AND AS REQUESTED BY JURISDICTIONAL ENGINEER.
 - DO NOT APPLY FERTILIZERS OR HERBICIDES.
 - SILT FENCE LOCATION AND QUANTITY SHOWN ARE APPROXIMATE AND BASED ON ANTICIPATED CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND IMPLEMENTING A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NUMBER 2 FOR A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHALL IDENTIFY EROSION CONTROL MEASURES NECESSARY TO PROTECT AGAINST SILTATION, EROSION, AND DUST POLLUTION ON THE PROJECT SITE. THE SWPPP SHALL COMPLY WITH REQUIREMENTS OF THE IOWA CODE, SPECIFICATIONS AND LOCAL ORDINANCES.
 - TEMPORARY ROLLED EROSION CONTROL PRODUCTS SHALL BE INSTALLED WHERE INDICATED. COMPLY WITH SUDAS 9040.
 - APPROXIMATE EARTHWORK GRADING QUANTITIES:
279 CU YDS CUT
628 CU YDS FILL
349 CU YDS NET FILL, SEE COMMENT BELOW
 - QUANTITIES ABOVE ARE PROVIDED FOR REFERENCE ONLY. QUANTITIES ARE BASED ON PRELIMINARY TOPO SURVEY AND INCLUDE NET DIFFERENCES BETWEEN EXISTING AND PROPOSED GROUND SURFACE ELEVATIONS. QUANTITIES DO NOT INCLUDE EXCAVATION OR FILL WITHIN THE PROPOSED BUILDING FOOTPRINT AND CONSTRUCTION OF THE ACCESS ROAD, OVEREXCAVATION, OR INSTALLATION OF ANY BURIED PIPING AND/OR ELECTRICAL SYSTEMS. QUANTITIES DO NOT INCLUDE ANY SHRINK/SWELL FACTOR.

1 GRADING PLAN
SCALE: 1" = 15'

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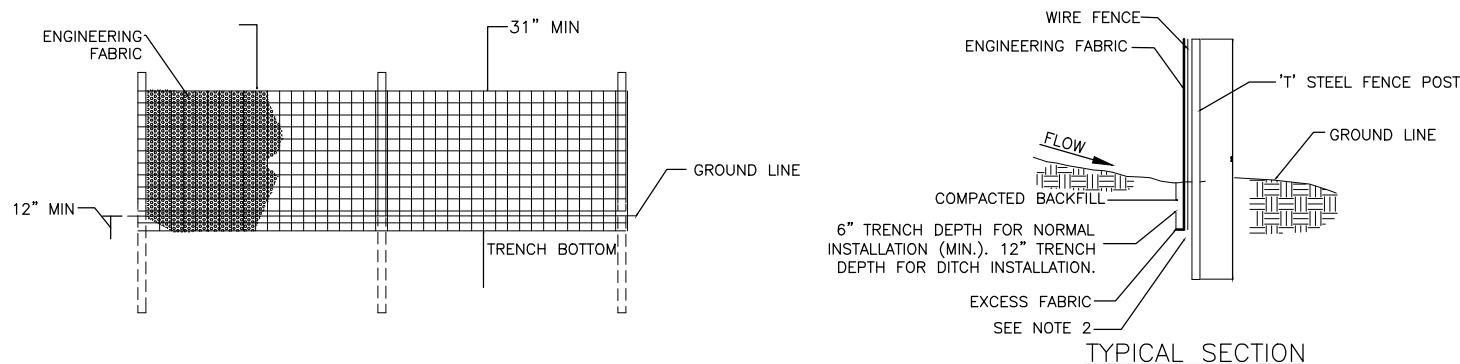
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JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

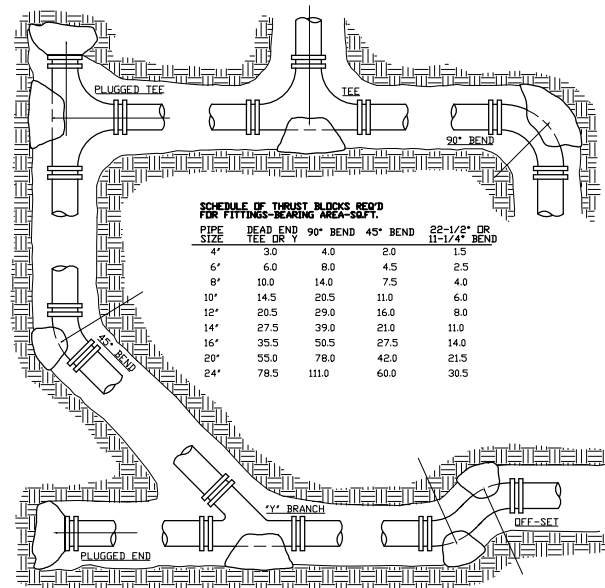
C - CIVIL
GRADING AND EROSION CONTROL PLAN

SHEET NO.
C.06



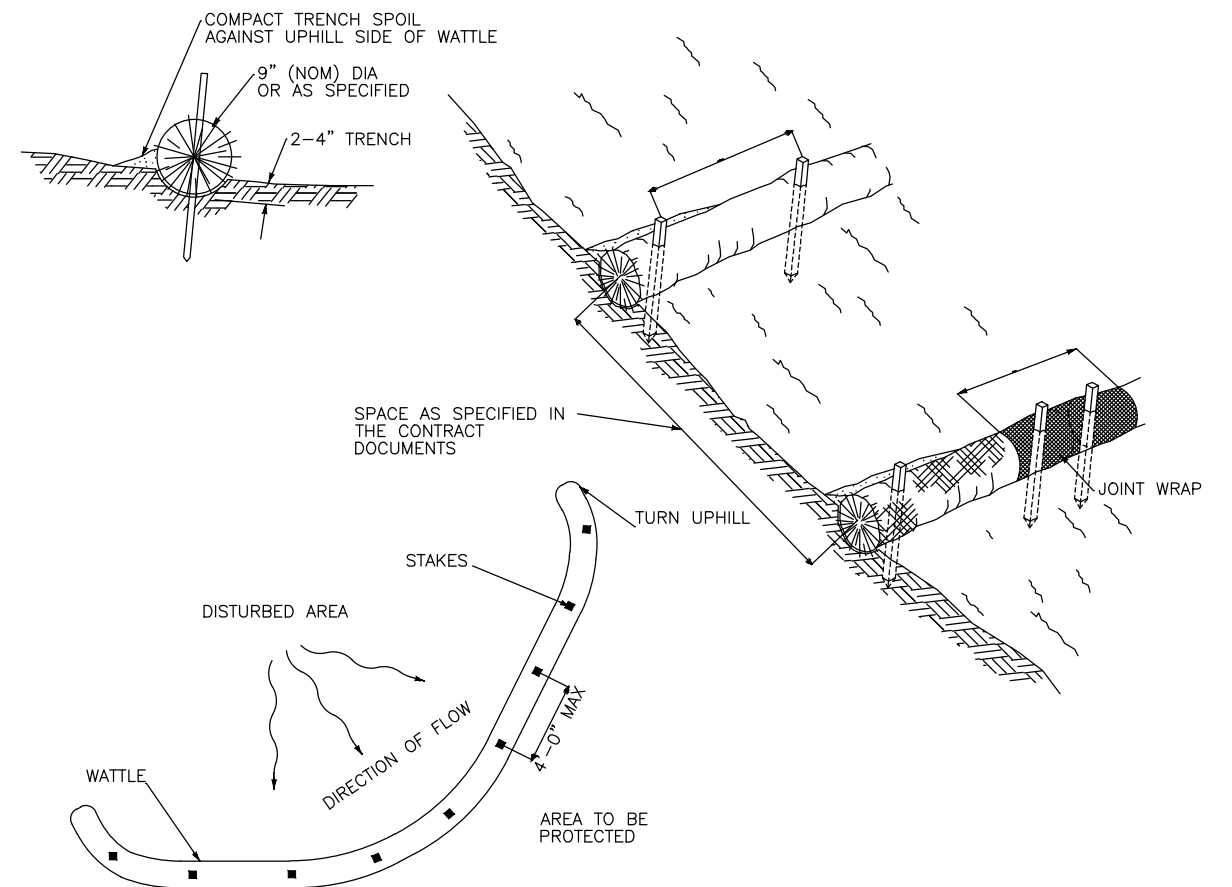
- NOTES:**
1. SECURE TOP OF ENGINEERING FABRIC TO TOP OF FENCE WITH RINGS AT 6" SPACING.
 2. ENGINEERING FABRIC TO BE PLACED TO BOTTOM OF TRENCH.

SCALE: NTS

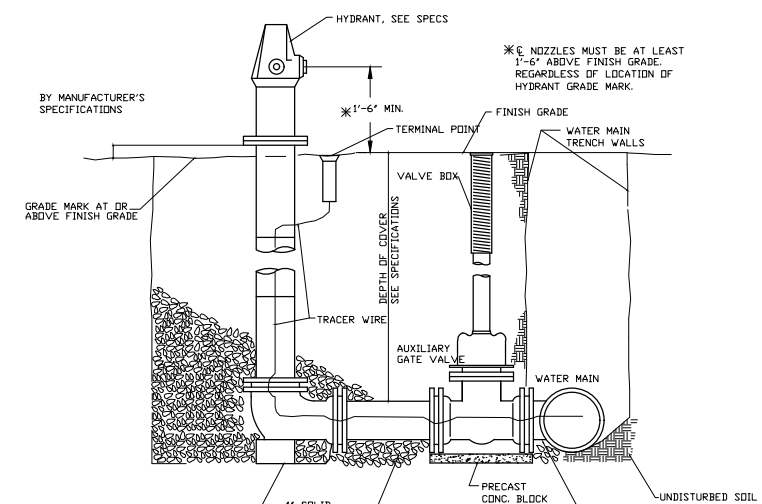


UNLESS OTHER METHOD OF JOINT RESTRAINT IS IDENTIFIED AND/OR REQUIRED, THRUST BLOCKS SHALL BE PROVIDED AT PIPING DIRECTION CHANGES, END ENDS, AND AT FIRE DRANS. THRUST BLOCKS SHALL BE POURED-IN-PLACE CONCRETE 3,000 P.S.I. MINIMUM STRENGTH AND SHALL BE CAST AGAINST A SOLID, UNDISTURBED EDGE OF TRENCH FOR BEARING. NO BOLTS, JOINTS OR DRAIN HOLES SHALL COME INTO CONTACT WITH THE CONCRETE THRUST BLOCK AND THE PIPE OR FITTING SHALL BE WRAPPED WITH A PLASTIC SHEET AT THE CONCRETE BEARING SURFACES.

SCALE: NTS




SCALE: NTS



- | | | |
|--|------------------------|--------------------|
| CONC. BLOCK | 1/2" GRANULAR PIPE | SWIVEL TEE OR MJ |
| | BEDDING TO 1'-6" ABOVE | TEE WITH SPOOL |
| NOTES: | HYDRANT INLET. | PROVIDE REDUCER AS |
| 1. 3 MIL POLYETHYLENE SHEET OVER GRANULAR MATERIAL. DO NOT ALLOW SHEET UNDER GRANULAR MATERIAL. | | NECESSARY, |
| 2. HYDRANT ASSEMBLY SHALL BE FULLY RESTRAINED. ALL RESTRAINED FITTINGS AND VALVES SHALL BE RESTRAINED WITH DI MJ RETAINING GLANDS. | | SEE PLAN DRAWINGS |
| 3. MINIMUM OF 1/3 CUBIC YARD CLEAN GRANULAR BEDDING UNDER HYDRANT. | | |

SCALE: NTS

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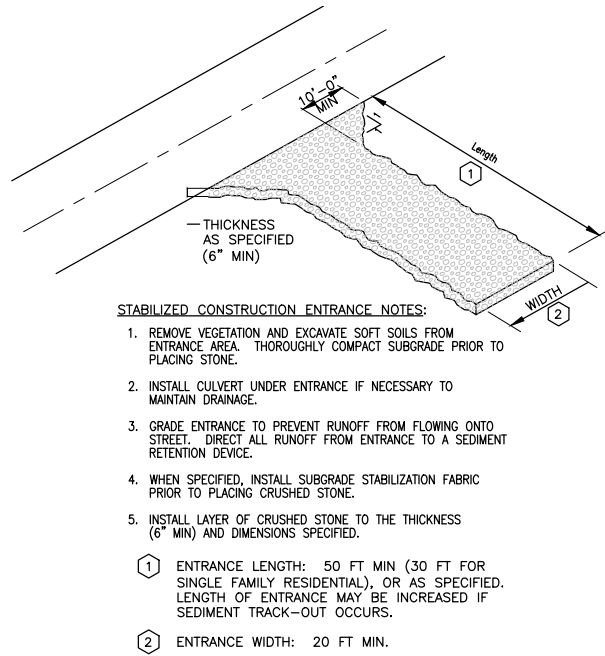
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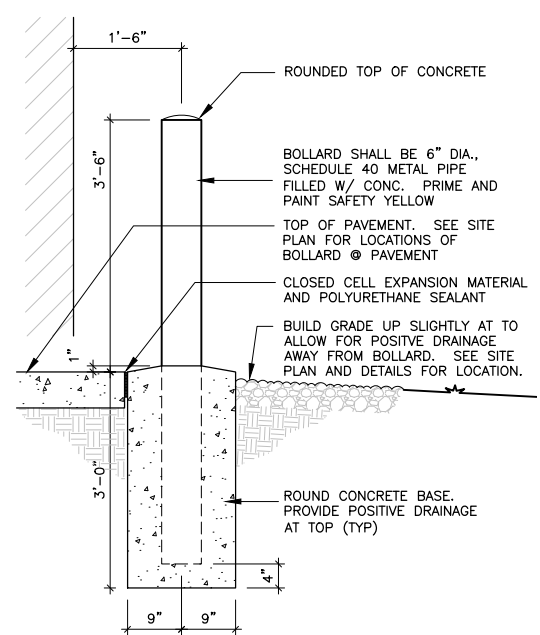
JORDAN WELL NO. 6
 BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
 ANAMOSA, IOWA

C - CIVIL
STANDARD DETAILS

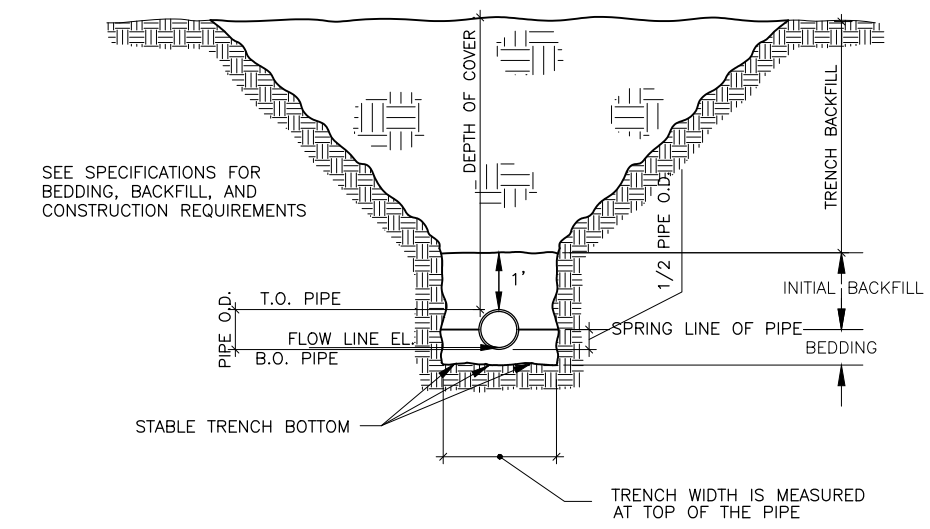
SHEET NO.
C.07



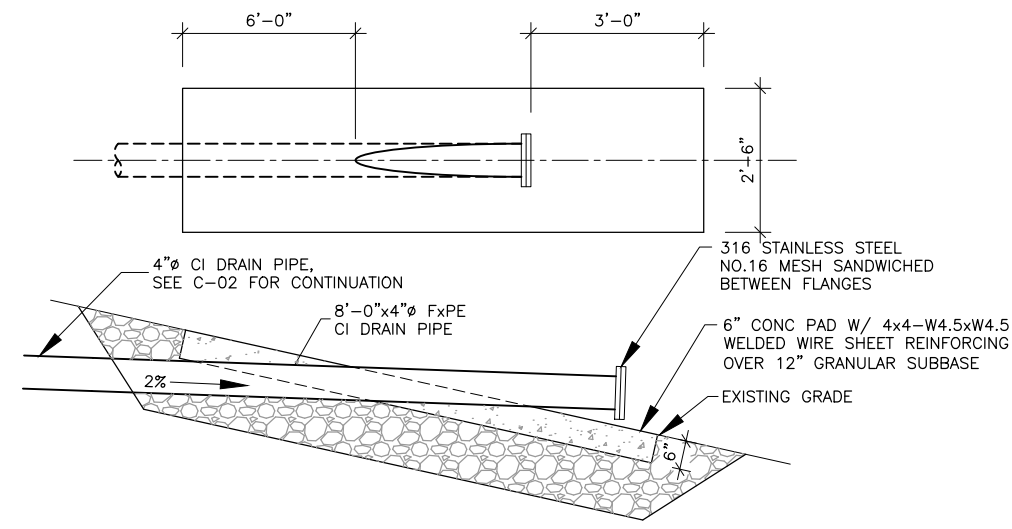
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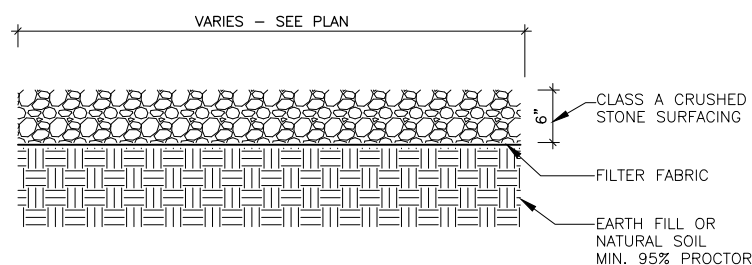
4 TYP BOLLARD DETAIL
SCALE: 3/4" = 1'-0"



2 TRENCH CONSTRUCTION TERMINOLOGY
SCALE: NTS

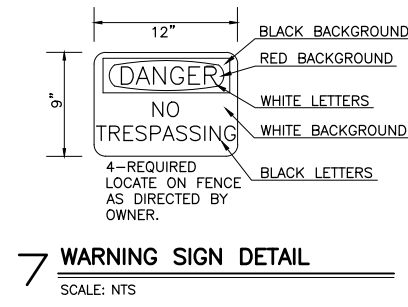
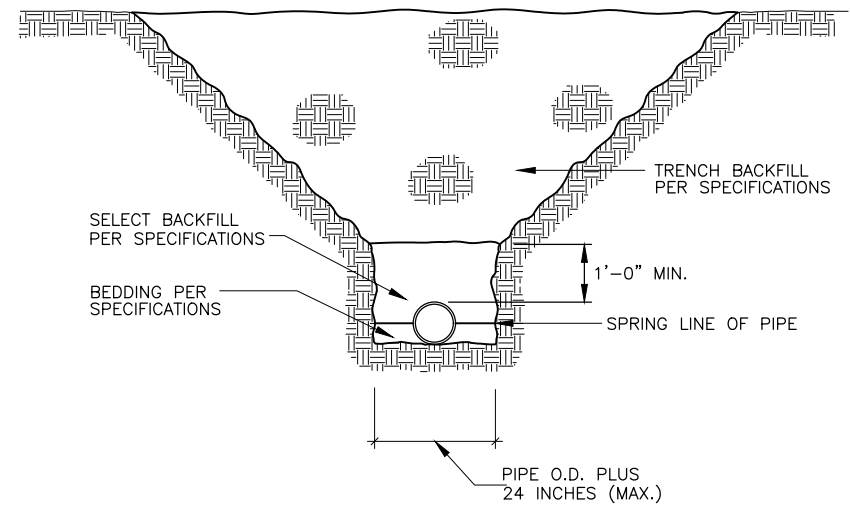


5 FLOOR DRAIN OUTLET
SCALE: NTS



6 TYPICAL GRAVEL DRIVE SECTION
SCALE: NTS

3 TYPICAL DETAIL OF PRESSURE LINES
IN EARTH EXCAVATION CONDITIONS
SCALE: NTS



7 WARNING SIGN DETAIL
SCALE: NTS

Xref: xgl-1-dh01; xc-1-d01; xc-1-d02; xc-1-d03

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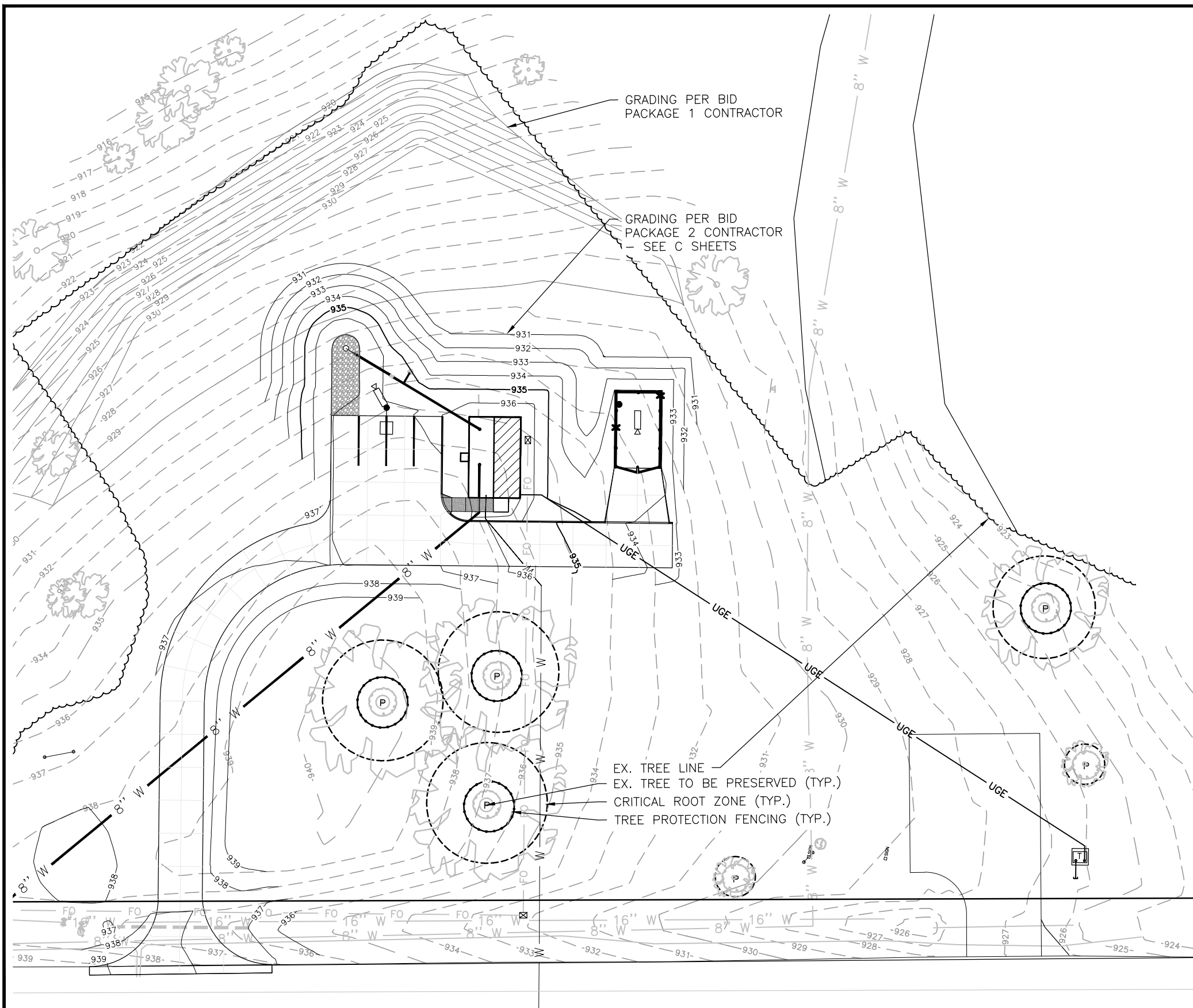
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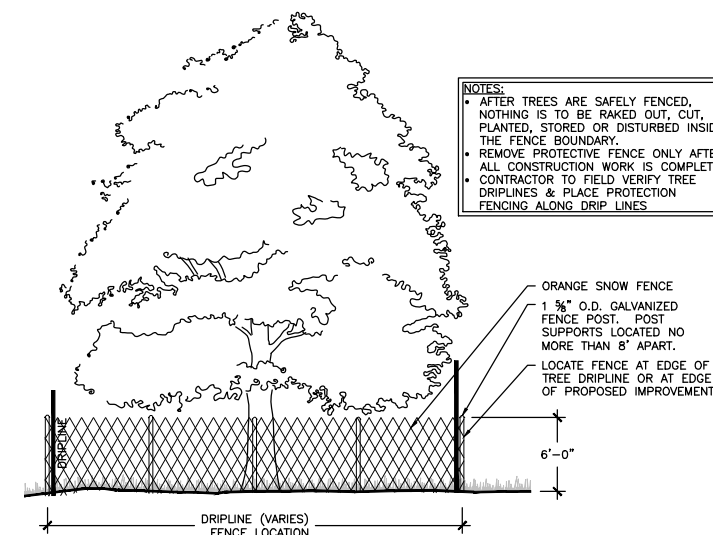
JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

C - CIVIL
STANDARD DETAILS

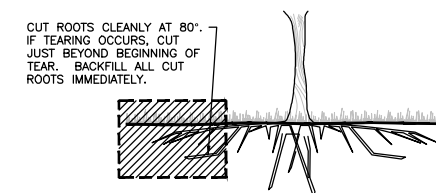
SHEET NO.
C.08



1 TREE PRESERVATION PLAN
SCALE: 1" = 20'-0"



2 TYP. TREE PROTECTION SNOW FENCE DETAIL
SCALE: NTS



3 TYP. ROOT PRUNING DETAIL
SCALE: NTS

TREE PROTECTION KEY

- EXIST. TREE TO BE PRESERVE
- TRUNK PROTECTIVE FENCING
- CRITICAL ROOT ZONE

TOTAL QUANTITIES (IN VICINITY OF DISTURBANCE AND PROPOSED IMPROVEMENTS)

EXIST. TREES TO BE PRESERVED +/ - 6

GENERAL NOTES

1. THE INTENT IS TO KEEP THE EXISTING TREES TO BE PRESERVED IN TACT THROUGHOUT THE DURATION OF CONSTRUCTION ON-SITE. IF THE TREES ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR REPLACING PER THE MUNICIPALITY'S ORDINANCE.
2. CONTRACTOR IS RESPONSIBLE FOR THE HAUL-OFF OF ALL TREES AND OTHER VEGETATION TO BE REMOVED.



Know what's below.
Call before you dig.

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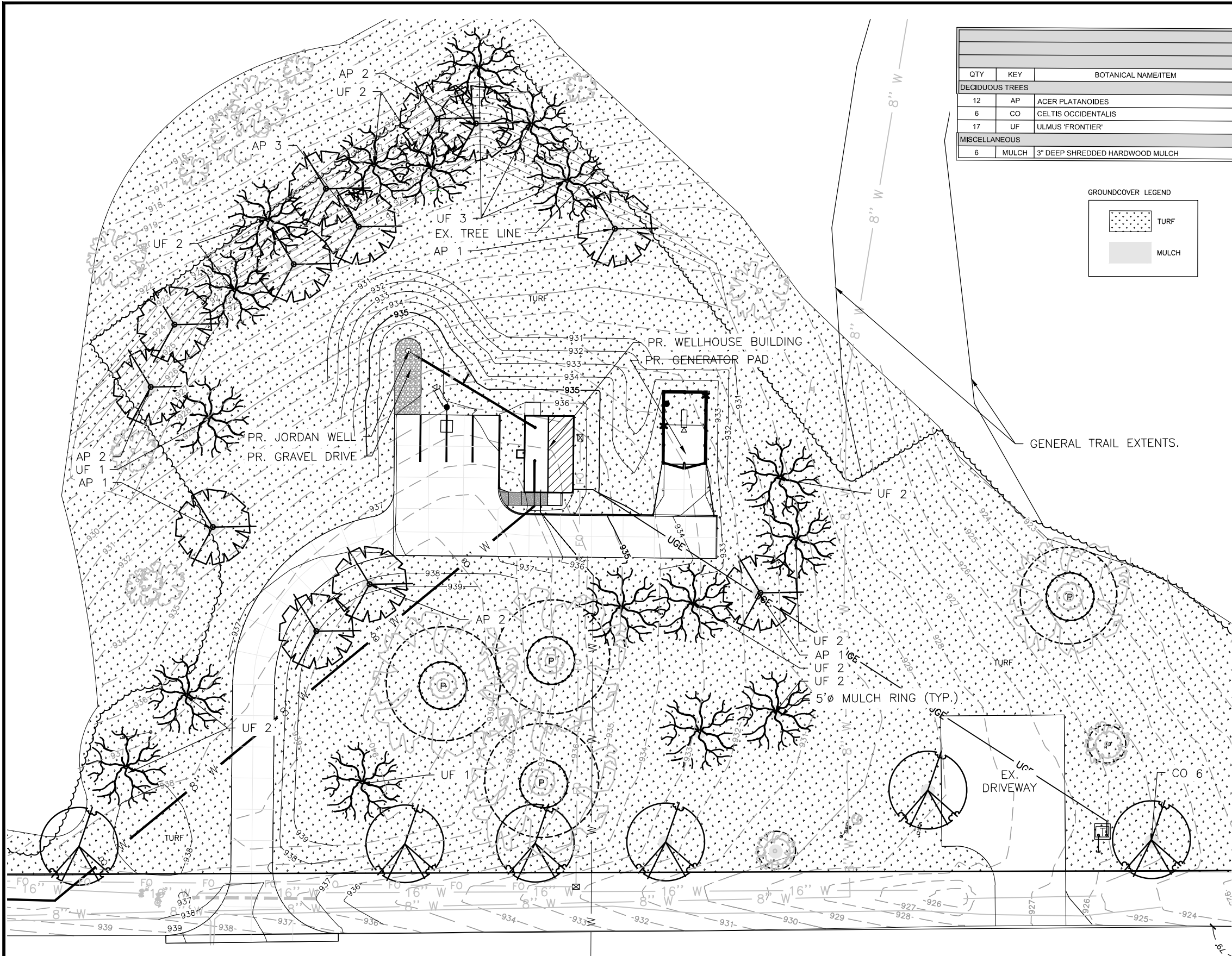
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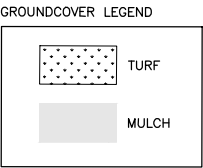
JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

L - LANDSCAPING
TREE PRESERVATION PLAN

SHEET NO.
L.01



JORDAN WELL - ANAMOSA, IOWA						
April 2, 2021						
MATERIALS SCHEDULE						
QTY	KEY	BOTANICAL NAME/ITEM	COMMON NAME	SIZE	COND	REMARKS
DECIDUOUS TREES						
12	AP	ACER PLATANOIDES	NORWAY MAPLE	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
6	CO	CELTIS OCCIDENTALIS	COMMON HACKBERRY	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
17	UF	ULMUS 'FRONTIER'	FRONTIER ELM	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
MISCELLANEOUS						
6	MULCH	3" DEEP SHREDDED HARDWOOD MULCH		CY		



SITE CALCULATIONS		
TOTAL SITE AREA:	+/- 93,568 SF.	+/- 2.15 AC.
NUMBER OF REGULAR PARKING STALLS:	N/A	
NUMBER OF HANDICAP PARKING STALLS:	N/A	
TOTAL NUMBER OF STALLS:	N/A	
ORDINANCE LANDSCAPE REQUIREMENTS		
EIGHT (8) YARD TREES SHALL BE REQUIRED PER ACRE OF USABLE OPEN SPACE.		
CALCULATION: 2.15 X 8 TREES = 17 TREES		
MATERIAL	REQUIRED	PROVIDED
TREES	17	35 (COUNT EXCLUDES PRESERVED TREES)

- LANDSCAPING NOTES:
- ALL PLANTINGS SHALL BE PROVIDED IN ACCORDANCE WITH SUDAS SECTION 9030. PROVIDE WARRANTY WITH ALL PLANTINGS.
 - COORDINATE FINAL PLANTING LOCATIONS WITH OWNER/ENGINEER.

1

LANDSCAPE PLAN

SCALE: 1" = 20'-0"

0

20

SCALE

N. WILLIAMS ST.

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JORDAN WELL NO. 6

BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE

ANAMOSA, IOWA

L - LANDSCAPING

LANDSCAPE PLAN

SHEET NO.

L.02

GENERAL NOTES

1. BASE MAP INFORMATION IS ACCURATE AS OF THE DATE PRINTED ON THIS PACKAGE.
2. THE LANDSCAPE PLANS CONTAINED HEREIN ILLUSTRATE APPROXIMATE LOCATIONS OF ALL SITE CONDITIONS. REFER TO SURVEY, ARCHITECTURAL, CIVIL ENGINEERING, STRUCTURAL, ELECTRICAL, IRRIGATION AND ALL OTHER DRAWINGS, IF AVAILABLE, FOR ADDITIONAL DETAILED INFORMATION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING AWARE OF AND FIELD VERIFYING ALL RELATED EXISTING AND PROPOSED CONDITIONS, UTILITIES, PIPES AND STRUCTURES, ETC. PRIOR TO BIDDING AND CONSTRUCTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONTACTING JULIE, THE MUNICIPAL PUBLIC WORKS DEPARTMENT, THE COUNTY AND ANY OTHER PUBLIC OR PRIVATE AGENCIES NECESSARY FOR UTILITY LOCATION PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF APPARENT CONFLICTS WITH CONSTRUCTION AND UTILITIES SO THAT ADJUSTMENTS CAN BE PLANNED PRIOR TO INSTALLATION. IF FIELD ADJUSTMENTS ARE NECESSARY DUE TO EXISTING UTILITY LOCATIONS THEY MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY AND ALL COSTS OR OTHER LIABILITIES INCURRED DUE TO DAMAGE OF SAID UTILITIES/STRUCTURES/ETC.
4. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS. THE CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS APPARENT THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR CLARIFICATION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL LIABILITIES, INCLUDING NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
5. THE CONTRACTOR SHALL APPLY FOR AND PROCURE ALL REQUIRED PERMITS PRIOR TO COMMENCING WORK.
6. THE CONTRACTOR SHALL COMPLY WITH ALL CODES APPLICABLE TO THIS WORK.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH SUBCONTRACTORS AND OTHER CONTRACTORS OF RELATED TRADES, AS REQUIRED, TO ACCOMPLISH THE PLANTING AND RELATED OPERATIONS.
8. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL PLANT MATERIAL WITH THE INSTALLATION OF OTHER IMPROVEMENTS SUCH AS HARDSCAPE ELEMENTS AND RELATED STRUCTURES. ANY DAMAGE TO EXISTING IMPROVEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE CONTRACTOR IS RESPONSIBLE TO RESTORE ALL AREAS OF THE SITE, OR ADJACENT AREAS, WHERE DISTURBED BY OPERATIONS OF OR RELATED TO THE CONTRACTOR'S WORK.
10. ALL SURFACE DRAINAGE SHALL BE DIVERTED AWAY FROM STRUCTURES AND NOTED SITE FEATURES IN ALL AREAS AT A MINIMUM OF 2% SLOPE AS SHOWN ON THE CIVIL ENGINEERING PLANS. ALL AREAS SHALL POSITIVELY DRAIN AND ALL ISLANDS SHALL BE CROWNED 1" IN HEIGHT PER 1' IN ISLAND WIDTH.
11. THE CONTRACTOR SHALL STAKE ALL IMPROVEMENTS AS NOTED ON THE FOLLOWING PLANS, AS WELL AS, TREE LOCATIONS AND THE PERIMETER OF SHRUB/PERENNIAL BEDS PRIOR TO INSTALLATION AND CONTACT THE OWNER'S REPRESENTATIVE FOR APPROVAL. FINAL LOCATION AND STAKING OF ALL IMPROVEMENTS SHALL BE ACCEPTED BY THE OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.
12. IF CONFLICTS ARISE BETWEEN THE SIZE OF AREAS AND PLANS, THE CONTRACTOR IS REQUIRED TO CONTACT THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO INSTALLATION.
13. WHERE PROVIDED, AREA TAKEOFFS AND PLANT QUANTITY ESTIMATES IN THE PLANT LIST ARE FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE TO DO THEIR OWN QUANTITY TAKE-OFFS FOR ALL PLANT MATERIALS AND SIZES SHOWN ON PLANS. IN CASE OF ANY DISCREPANCIES, PLANS TAKE PRECEDENCE OVER CALL-OUTS AND/OR THE PLANT LIST(S).
14. ALL PLANTS SHALL BE NURSERY GROWN PLANTS MEETING AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (ANLA) STANDARDS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1-LATEST EDITION). PLANTS ARE TO BE TYPICAL IN SHAPE AND SIZE FOR SPECIES. PLANTS PLANTED IN ROWS OR GROUPS SHALL BE MATCHED IN FORM. PLANT MATERIAL OF THE SAME SPECIES SHALL BE OBTAINED FROM THE SAME SOURCE. PLANTS SHALL NOT BE ROOT-BOUND OR LOOSE IN THEIR CONTAINERS. HANDLE ALL PLANTS WITH CARE IN TRANSPORTING, PLANTING AND MAINTENANCE UNTIL INSPECTION AND FINAL ACCEPTANCE. FIELD COLLECTED, PARK GRADE, OR BARE ROOT MATERIAL SHALL NOT BE USED UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE.
15. ALL PLANTING BED EDGES TO BE SHOVEL CUT.
16. CONTRACTOR SHALL USE CAUTION WHEN DIGGING TREE PITS IN THE VICINITY OF UNDERGROUND UTILITY LINES AND MAY NEED TO HAND DIG THE PITS IN MANY OF THESE INSTANCES.
17. ALL AREAS DESIGNED TO RECEIVE SOLID SOD SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO GRASSING OPERATIONS. FINISH GRADE AT TURF AREAS SHALL BE 3/4"-1" BELOW TOP OF ADJACENT PAVEMENT OR CURBS.
18. CONTRACTOR SHALL FIELD ADJUST PLANT LOCATIONS TO ACCOMMODATE ALL LIGHTING AND ENSURE PLANTS WILL NOT INTERFERE WITH LIGHTING.
19. FERTILIZING, AS SPECIFIED, STAKING, WATERING AND ONE (1) YEAR PLANT WARRANTY FOR INSTALLED PLANT MATERIAL, SHALL BE CONSIDERED INCIDENTAL TO THE PLANT ITEMS.
20. MUSHROOM COMPOST SHALL BE FINELY SCREENED, HOMOGENOUS, DECOMPOSED ORGANIC MATERIAL SUITABLE FOR HORTICULTURAL USE. MIX THOROUGHLY IN PLANT BED BEFORE INSTALLING PLANTS.
21. WARRANTY: ONE (1) YEAR REPLACEMENT WARRANTY FOR ALL PLANT MATERIALS SHALL BE CONSIDERED INCIDENTAL TO THIS PROJECT. WARRANTY SHALL COVER PLANTS WHICH HAVE DIED OR PARTIALLY DIED (THEREBY RUINING THEIR NATURAL SHAPE), BUT SHALL NOT INCLUDE DAMAGE BY VANDALISM, BROWSING, HAIL, ABNORMAL FREEZES, DROUGHT OR NEGLIGENCE BY THE OWNER. THE WARRANTY IS INTENDED TO COVER CONTRACTOR NEGLIGENCE, INFESTATIONS, DISEASE AND DAMAGE OR SHOCK TO PLANTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND WATERING THE PLANT MATERIAL AS NECESSARY, TO ENSURE GROWTH AND ESTABLISHMENT DURING THE 1-YEAR WARRANTY PERIOD. ANY PLANTS THAT ARE NOT IN A LIVE, HEALTHY, GROWING CONDITION AT THE END OF THE 1-YEAR WARRANTY PERIOD SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. PLANTS REPLACED UNDER WARRANTY WILL BE WARRANTED FOR ONE (1) YEAR FOLLOWING REPLACEMENT.

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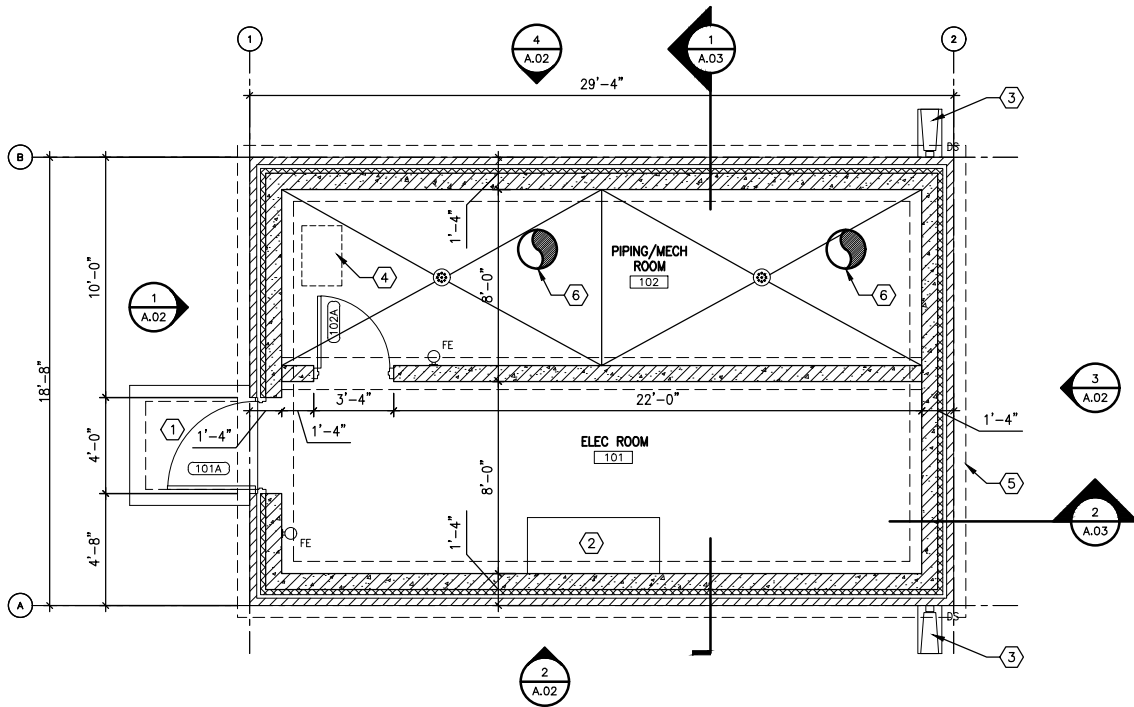
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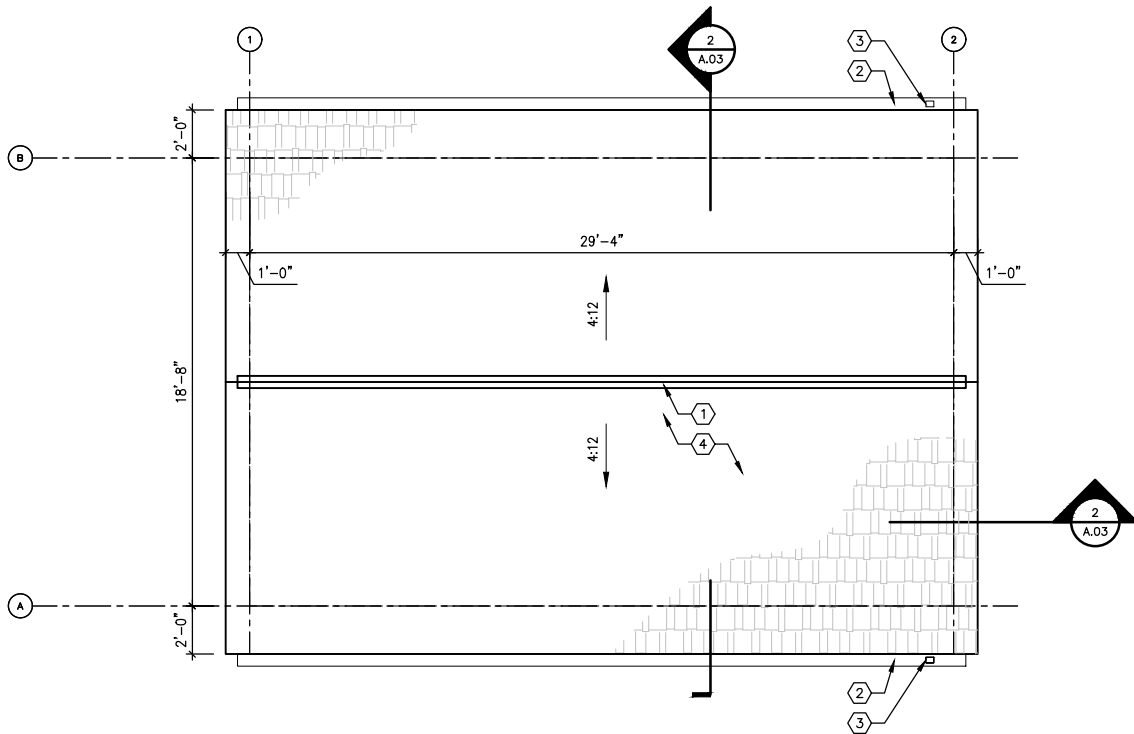
JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

L - LANDSCAPING
LANDSCAPE NOTES

SHEET NO.
L.03



JORDAN WELL PUMP HOUSE
1 FLOOR PLAN
SCALE: 1/4" = 1'-0"



JORDAN WELL PUMP HOUSE
2 ROOF PLAN
SCALE: 1/4" = 1'-0"



GENERAL NOTES

- ALL DIMENSIONS ARE TAKEN FROM FACE OF MASONRY UNLESS NOTED OTHERWISE.
- COORDINATE SIZE & LOCATION OF WALL/FLOOR PENETRATIONS AND EQUIPMENT PADS WITH ALL DISCIPLINES/TRADES PRIOR TO INSTALLATION.

KEYED NOTES

- FROST STOOP - SEE STRUCTURAL
- CONCRETE EQUIPMENT PAD - SEE STRUCTURAL & COORDINATE WITH EQUIPMENT MANUFACTURERS
- CONCRETE SPLASH BLOCK
- ATTIC ACCESS - 20" x 30" MIN CLEAR OPENING
- FOOTING BELOW - SEE STRUCTURAL
- FLOOR PENETRATION - COORDINATE SIZE & LOCATION WITH OTHER TRADES

WALL TYPES

- A 4" BRICK VENEER ON AIR SPACE ON 2 1/2" RIGID INSULATION ON WEATHER RESISTIVE BARRIER ON 8" REINFORCED CONCRETE MASONRY UNITS
- B 8" REINFORCED CONCRETE MASONRY UNITS

LEGEND

- FE FIRE EXTINGUISHER
- FD FLOOR DRAIN - COORDINATE LOCATION WITH PLUMBING
- DS DOWNSPOUT

GENERAL REVIEW OF PLAN NOTES

- NOT DIMENSIONED FROM FACE OF MASONRY UNLESS NOTED OTHERWISE. COORDINATE SIZE & LOCATION OF WALL/FLOOR PENETRATIONS AND EQUIPMENT PADS WITH ALL DISCIPLINES/TRADES PRIOR TO INSTALLATION.
- COORDINATE SIZE & LOCATION OF WALL/FLOOR PENETRATIONS AND EQUIPMENT PADS WITH ALL DISCIPLINES/TRADES PRIOR TO INSTALLATION.

KEYED NOTES

- CONTINUOUS RIDGE VENT
- PREFINISHED 6" METAL BOX GUTTER
- 4" x 6" PREFINISHED BRAKE METAL DOWNSPOUT
- METAL SHINGLE ROOFING ON CONTINUOUS ICE/WATER MEMBRANE ON 5/8" SHEATHING ON PREFABRICATED TRUSSES @ 24" O.C. SEE STRUCTURAL.

CODE ANALYSIS

JORDAN WELL NO. 6 - BID PACKAGE 2: WELL EQUIPMENT & PIPELINE
ANAMOSA, IOWA

2015 INTERNATIONAL BUILDING CODE (IBC)
2012 INTERNATIONAL ENERGY EFFICIENCY CODE (IEEC)

This review is for a well pump building in Anamosa, Iowa. The building is 550 SF, and consists of an electrical room, and a room to house the pump equipment. This building is a slab on grade, and the walls shall be brick veneer with concrete masonry unit backup. The roof framing shall be wood trusses clad with metal shingles. This building will not normally be occupied.

2015 INTERNATIONAL BUILDING CODE REVIEW

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

312 Group S-2 - Low-Hazard Storage

CHAPTER 5 - GENERAL BUILDING HEIGHTS & AREAS

Table 504.3 Allowable Height.
Type V-B NS for S Occupancies = 40' > 15' (okay)

Table 504.4 Allowable Stories
S-2 NS, Type V-B Construction = 2 stories > 1 story (okay)

Table 506.2 Allowable Area
Occupancy S-2 NS, Type V-B is 13,500 > 5500 (okay)

CHAPTER 6 - TYPES OF CONSTRUCTION

Based on V-B construction

Table 601 Fire Resistance Rating Requirements for Building Elements	
Primary Structural Frame	0 hours
Bearing Walls, Interior & Exterior	0 hours
Nonbearing walls and partitions, Interior & Exterior	0 hours
Floor Construction	0 hours
Roof Construction	0 hours

CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES

Table 705.8, Allowable Area of Openings
Fire Separation Distance 30' or greater = No limit (okay)

CHAPTER 8 - INTERIOR FINISHES

Table 803.11 Interior Wall and Ceiling Finish Requirements by Occupancy Group S, NS - Room & Enclosed Spaces - C

CHAPTER 9 - FIRE PROTECTION PROTECTION SYSTEMS

Section 906 Portable Fire Extinguishers
906.1 Where Required - S occupancy requires portable fire extinguishers, see drawings for locations. (okay)

CHAPTER 10 - MEANS OF EGRESS

Table 1004.1.2
Accessory Storage Areas, Mechanical Equipment Rooms 300 SF / occupant gross
550 SF/300 SF = 2 occupants

Table 1006.3.2 Spaces with One Exit or Access Doorway
S Occupancy - Maximum Occupant Load of 29 > 2 (okay)

Common Path of egress travel:
S Occupancy = 100' - Common Path of Travel = 27' < 100' (okay)

Section 1008 Means of Egress Illumination
1008.2 The means of egress illumination level shall be not less than 1 footcandle at the walking surface.
1008.3 The power supply for means of egress illumination shall normally be provided by the premises' electrical supply.

Section 1010 Doors, Gates and Turnstiles
1010.1.10 Panic and Fire Exit Hardware. Electrical rooms with equipment rated 1,200 amperes or more and over 6 feet wide that contain overcurrent devices, switching devices or control devices with exit or exit access doors, shall be equipped with panic hardware or fire exit hardware. The doors shall swing in the direction of egress travel.

Section 1017 Exit Access Travel Distance
Per Table 1017.2
S Occupancy NS is 300' > 31' (okay)

CHAPTER 11 - ACCESSIBILITY

1103.2 General Exceptions
1103.2.9 Spaces frequented only by service personnel for maintenance, repair or occasional monitoring of equipment are not required to comply with this chapter.

ROOM FINISH SCHEDULE

ROOM				NORTH		EAST		SOUTH		WEST		CEILING		
NO.	NAME	FLOOR	FIN.	BASE	MAT'L	FIN.	MAT'L	FIN.	MAT'L	FIN.	MAT'L	FIN.	MAT'L	FIN.
101	ELECTRICAL ROOM	CONC	ECT	RB	CMU	EPT	CMU	EPT	CMU	EPT	CMU	EPT	FRP	PRFIN
102	PIPING/MECHANICAL ROOM	CONC	ECT	RB	CMU	EPT	CMU	EPT	CMU	EPT	CMU	EPT	FRP	PRFIN

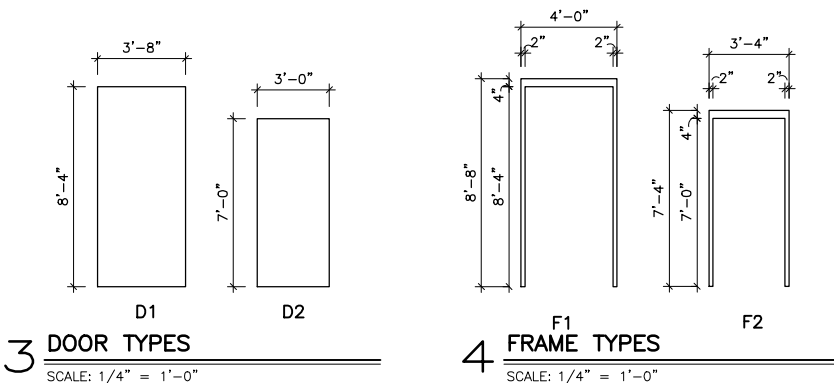
ABBREVIATIONS KEY:
CMU CONCRETE MASONRY UNITS
CONC CONCRETE
ECT EPOXY COATING
EPT EPOXY PAINT

DOOR SCHEDULE - JORDAN WELL PUMP HOUSE

DOOR						FRAME				HARDWARE			
NO.	SIZE (WxHxD)		MAT'L	FIN.	TYPE	SIZE (WxHxD)		MAT'L	FIN.	TYPE			
101A	3'-8"	x 8'-4"	x 1 3/4"	IGHM	PT	D1	4'-0"	x 8'-8"	x 7 3/4"	IGHM	PT	F1	1, 2, 3, 4, 5, 6, 7, 8, 9
102A	3'-0"	x 7'-0"	x 1 3/4"	HM	PT	D2	3'-4"	x 7'-4"	x 5 3/4"	HM	PT	F2	2, 3, 4, 5, 6, 10

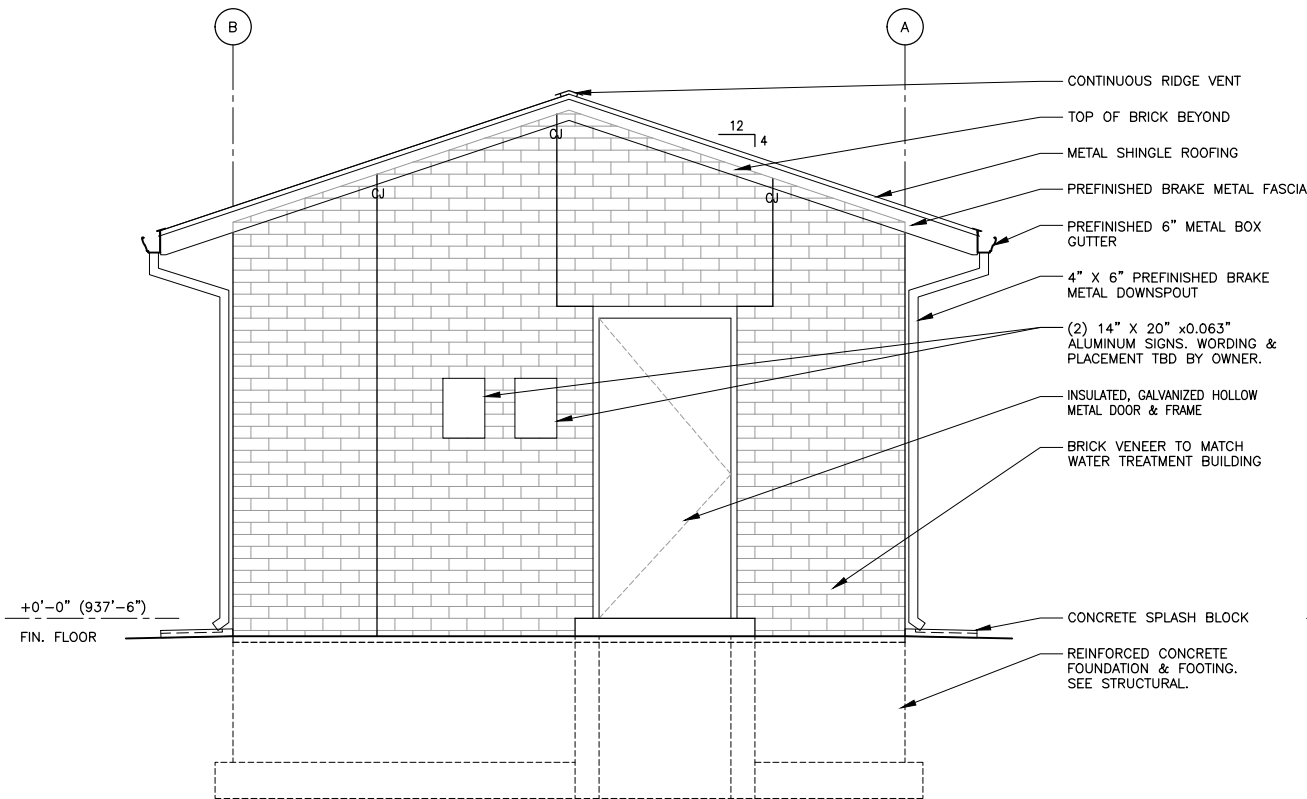
DOOR HARDWARE SCHEDULE:

1 FULL MORTISE CONTINUOUS HINGE	5 DOOR STOP (OVERHEAD)	10 HINGE, 4 1/2" HEAVY WEIGHT
2 BORED LATCHSET	6 KICK PLATE	
3 CYLINDER	7 THRESHOLD	NOTE: ALL HARDWARE COMMERCIAL GRADE HEAVY DUTY. COORDINATE CYLINDERS & KEYING WITH OWNER.
4 SURFACE CLOSER	8 RAIN GUARD	
	9 WEATHER STRIP	

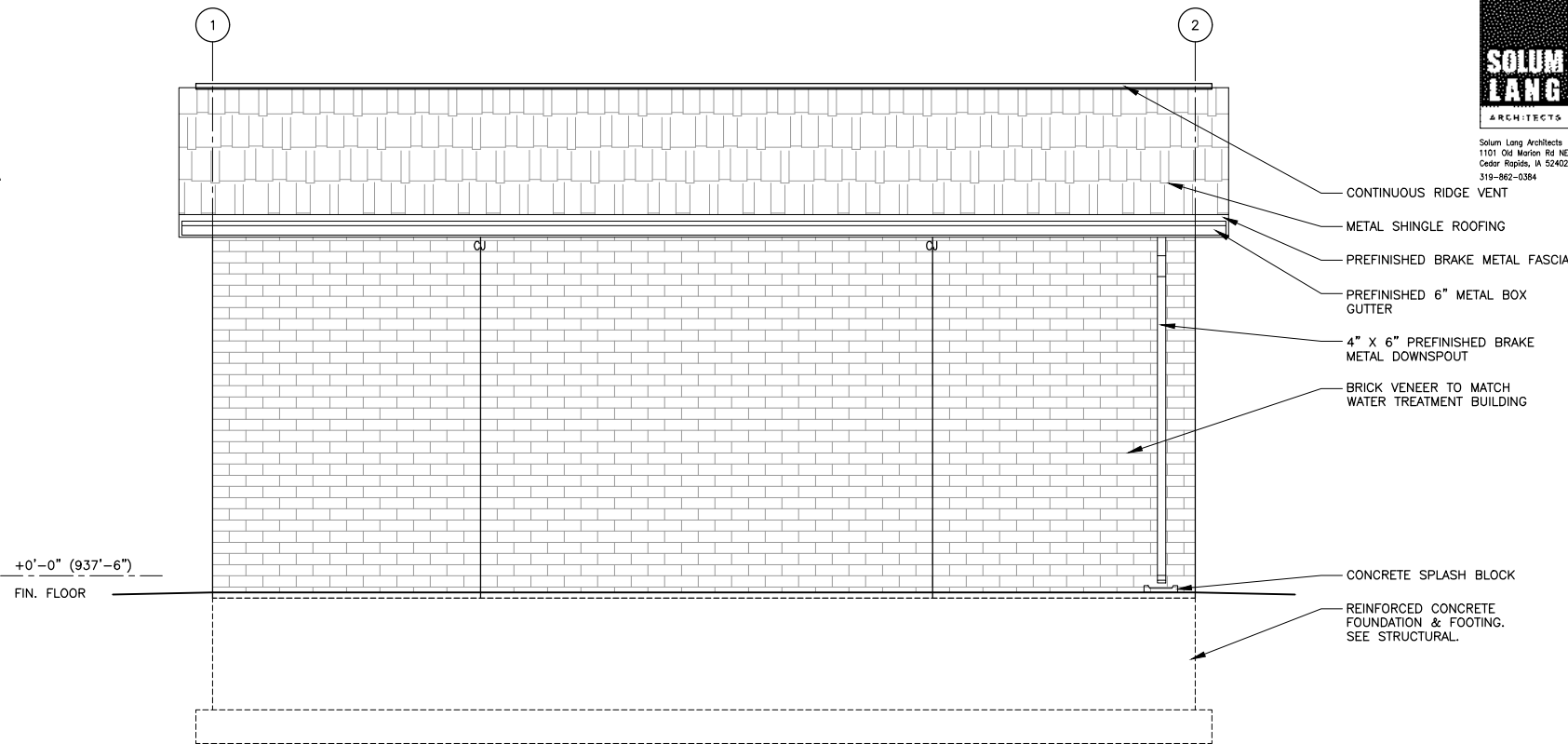


3 DOOR TYPES
SCALE: 1/4" = 1'-0"

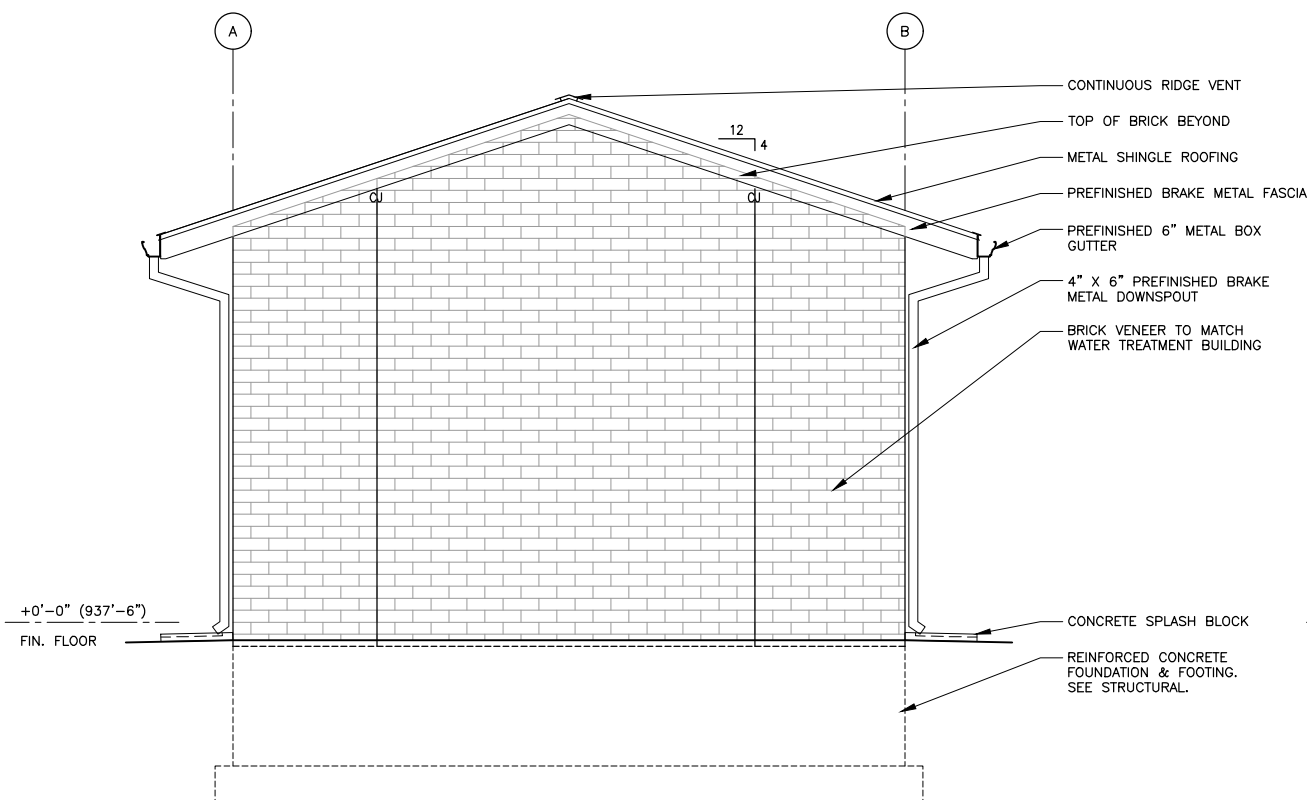
4 FRAME TYPES
SCALE: 1/4" = 1'-0"



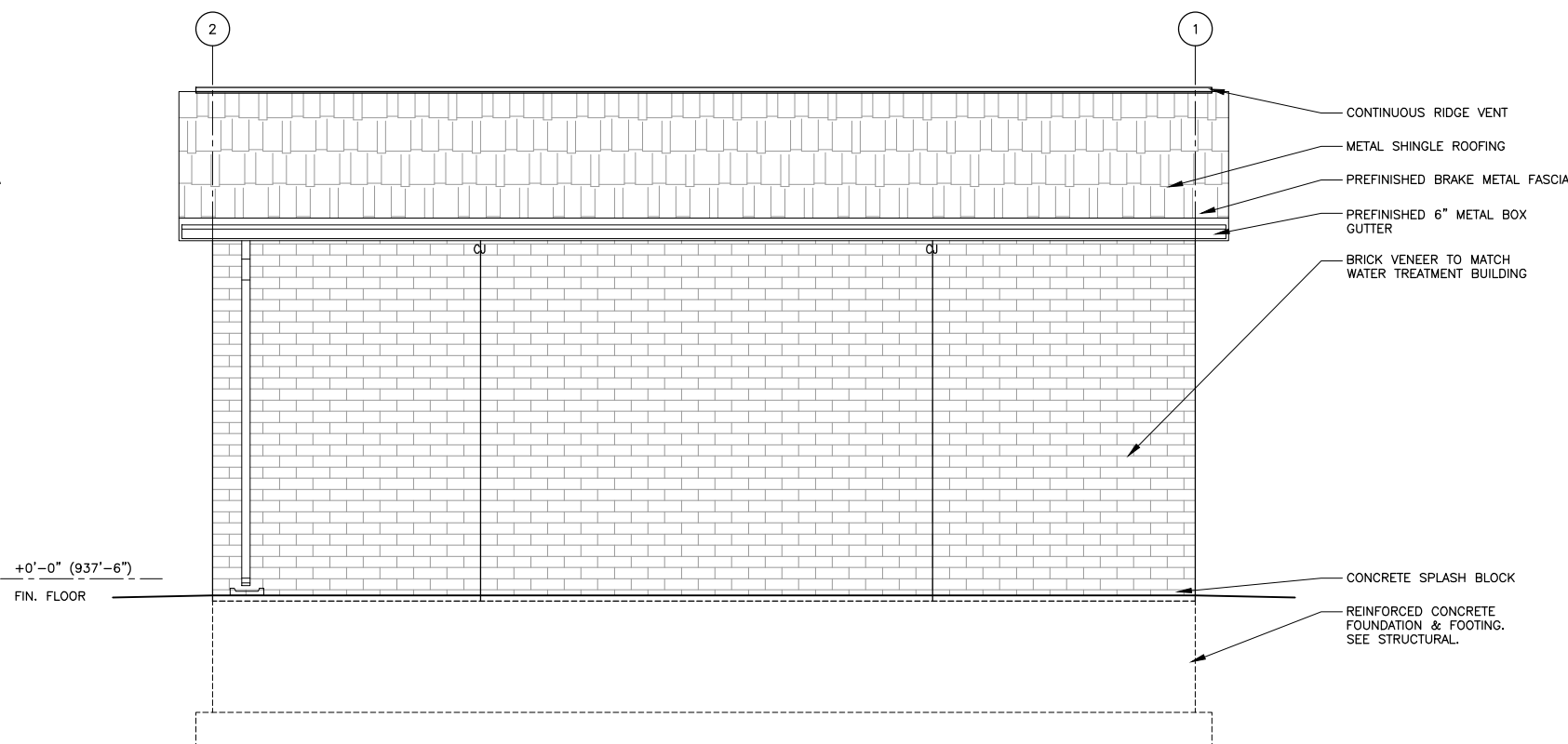
**1 JORDAN WELL PUMP HOUSE
WEST ELEVATION**
SCALE: 3/8" = 1'-0"



**2 JORDAN WELL PUMP HOUSE
SOUTH ELEVATION**
SCALE: 3/8" = 1'-0"



**3 JORDAN WELL PUMP HOUSE
EAST ELEVATION**
SCALE: 3/8" = 1'-0"



**4 JORDAN WELL PUMP HOUSE
NORTH ELEVATION**
SCALE: 3/8" = 1'-0"

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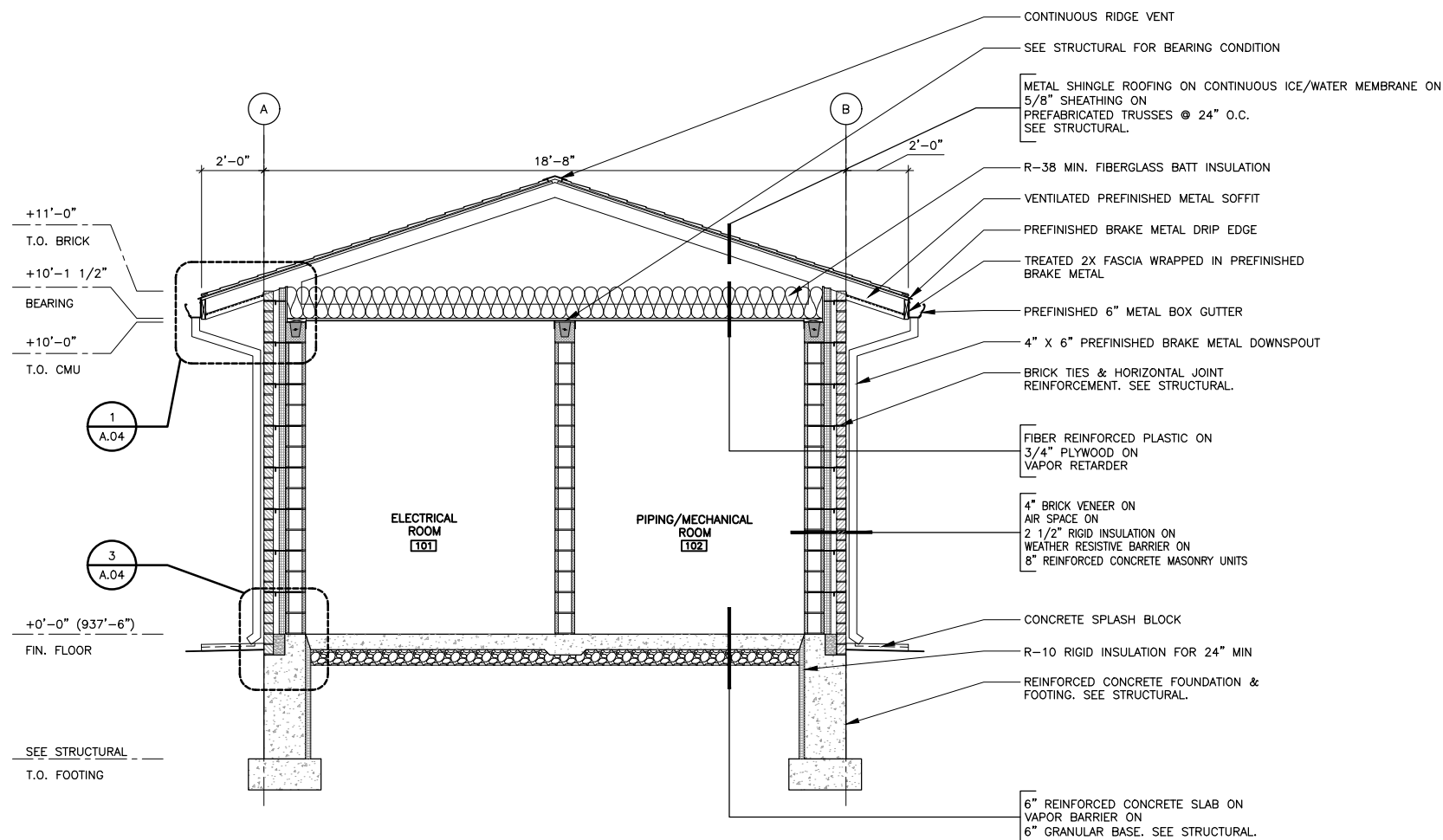
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JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

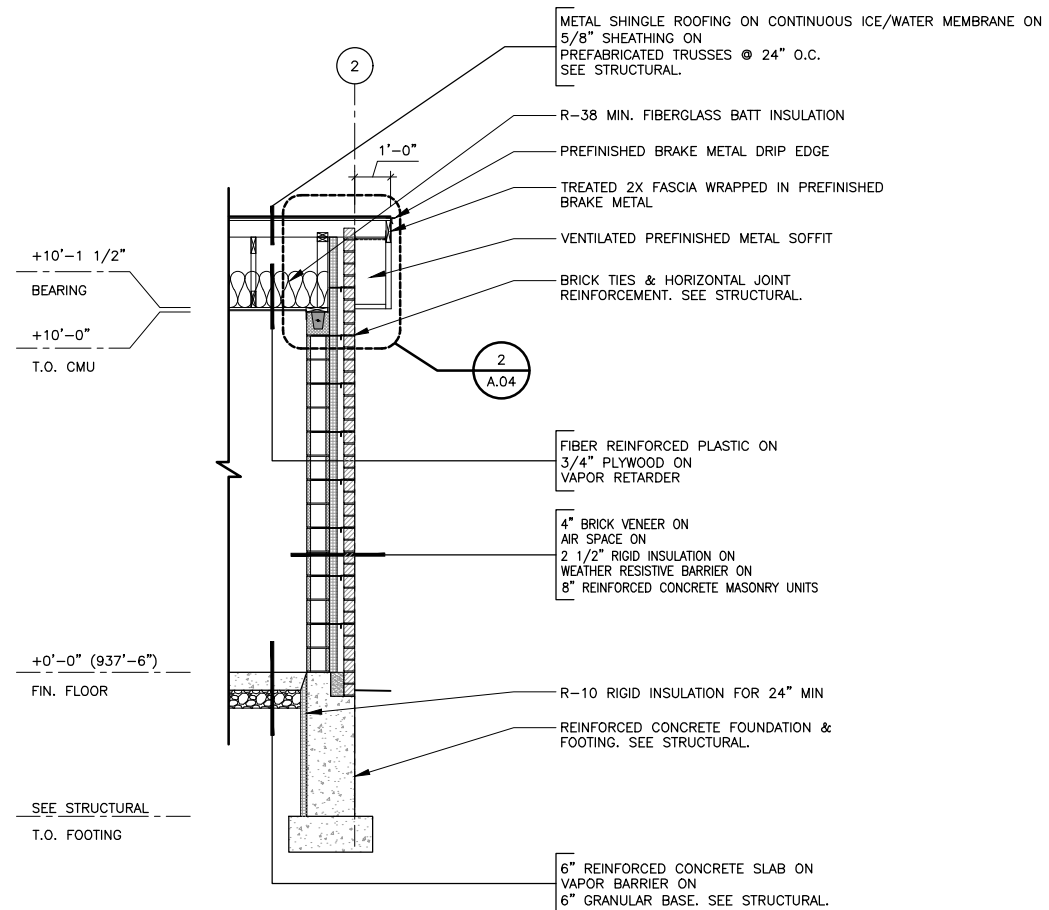
ARCHITECTURAL
JORDAN WELL PUMP HOUSE
BUILDING ELEVATIONS

SHEET NO.
A.02



**1 JORDAN WELL PUMP HOUSE
BUILDING SECTION**

SCALE: 3/8" = 1'-0"



**2 JORDAN WELL PUMP HOUSE
WALL SECTION**

SCALE: 3/8" = 1'-0"

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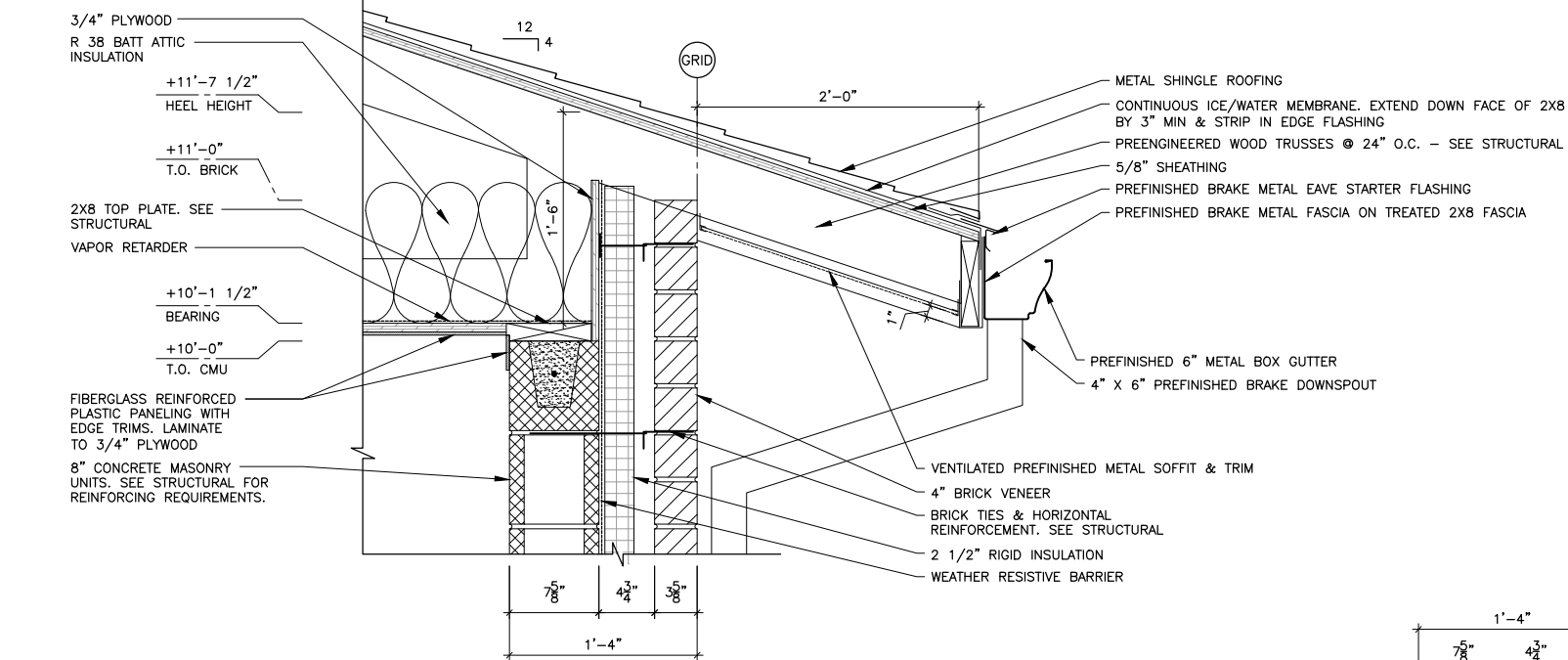
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BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

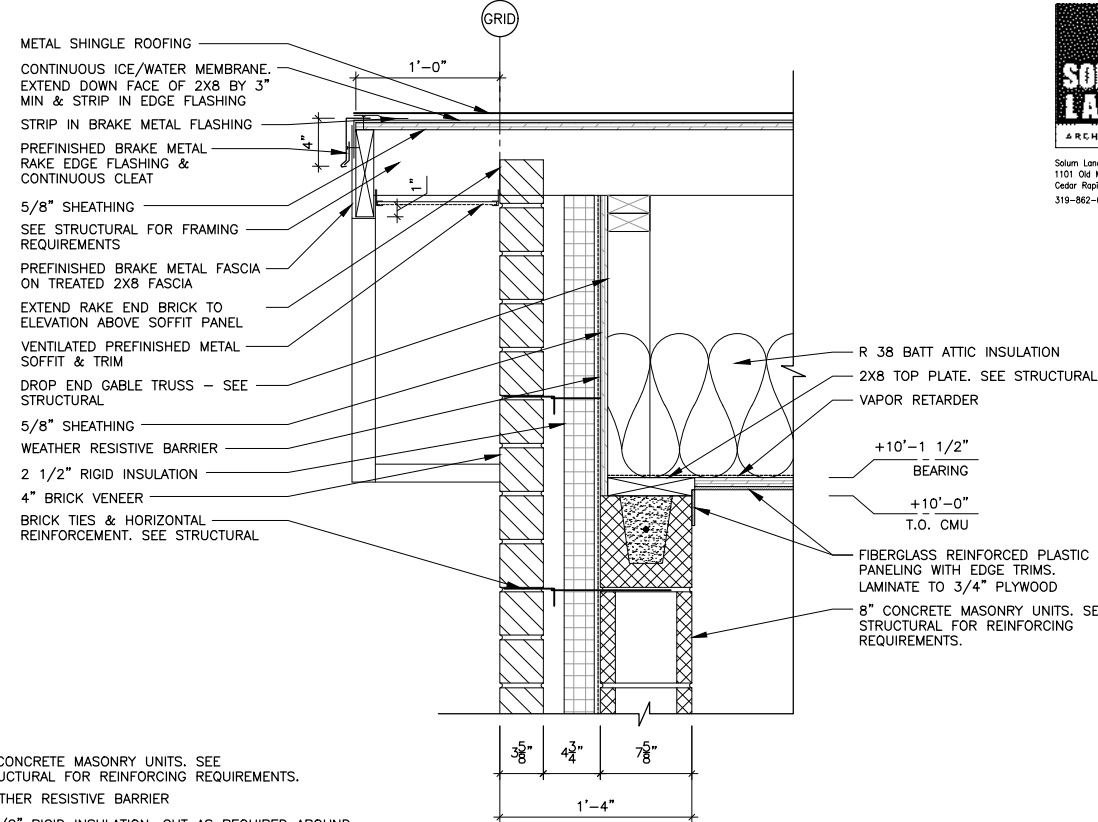
ARCHITECTURAL
**JORDAN WELL PUMP HOUSE
BUILDING & WALL SECTIONS**

SHEET NO.
A.03



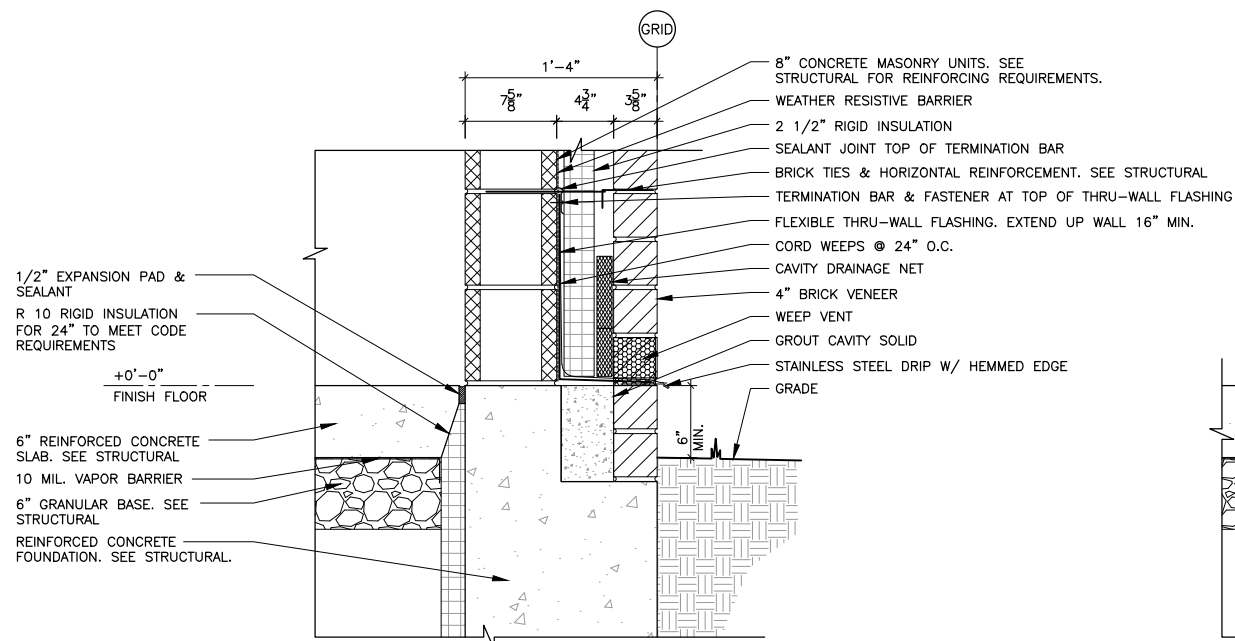
1 EAVE EDGE DETAIL

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



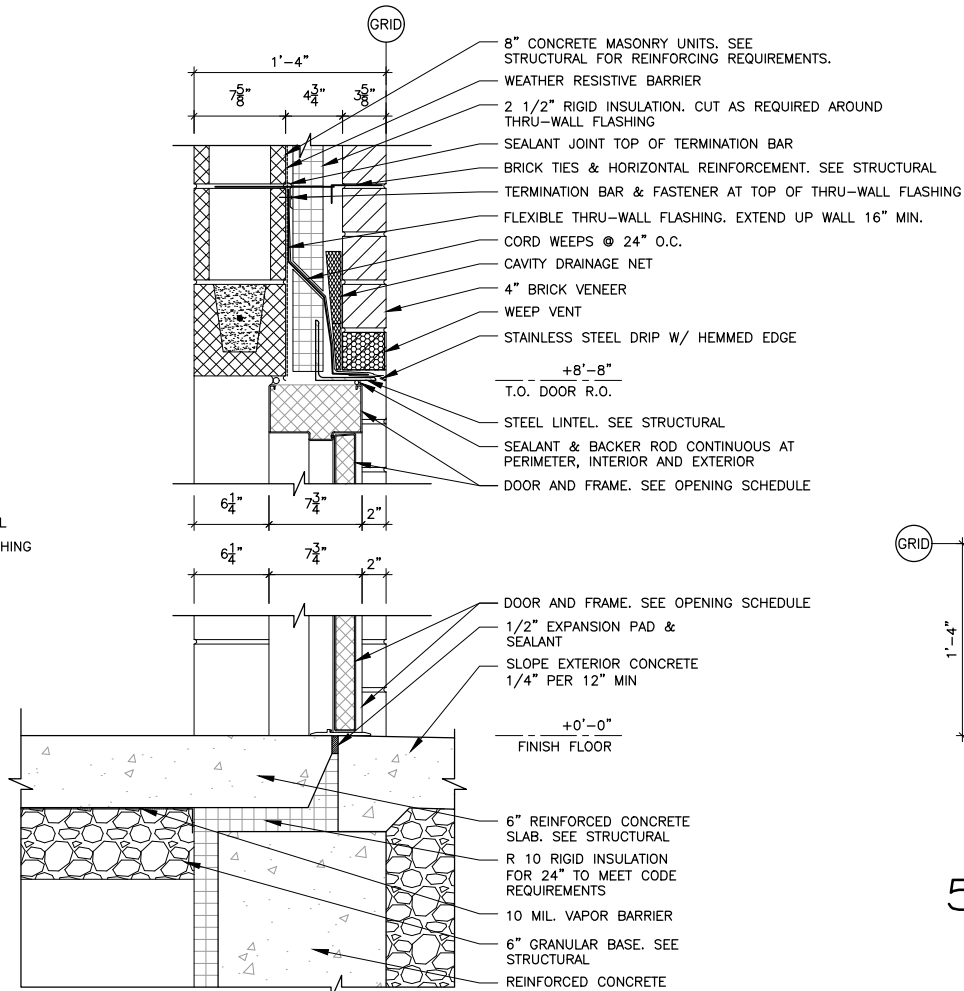
2 RAKE EDGE DETAIL

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



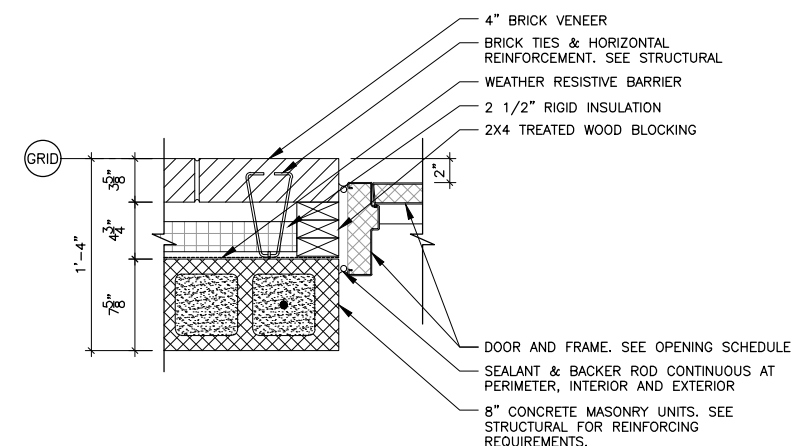
3 FOUNDATION DETAIL

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



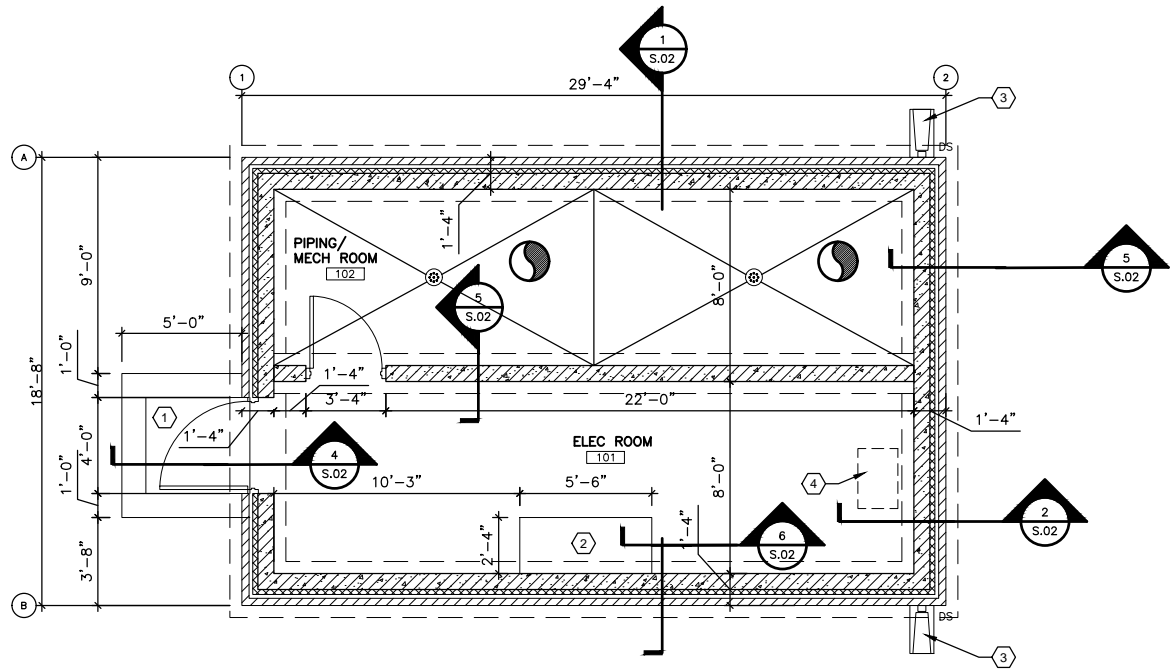
4 DOOR HEAD & SILL DETAILS

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

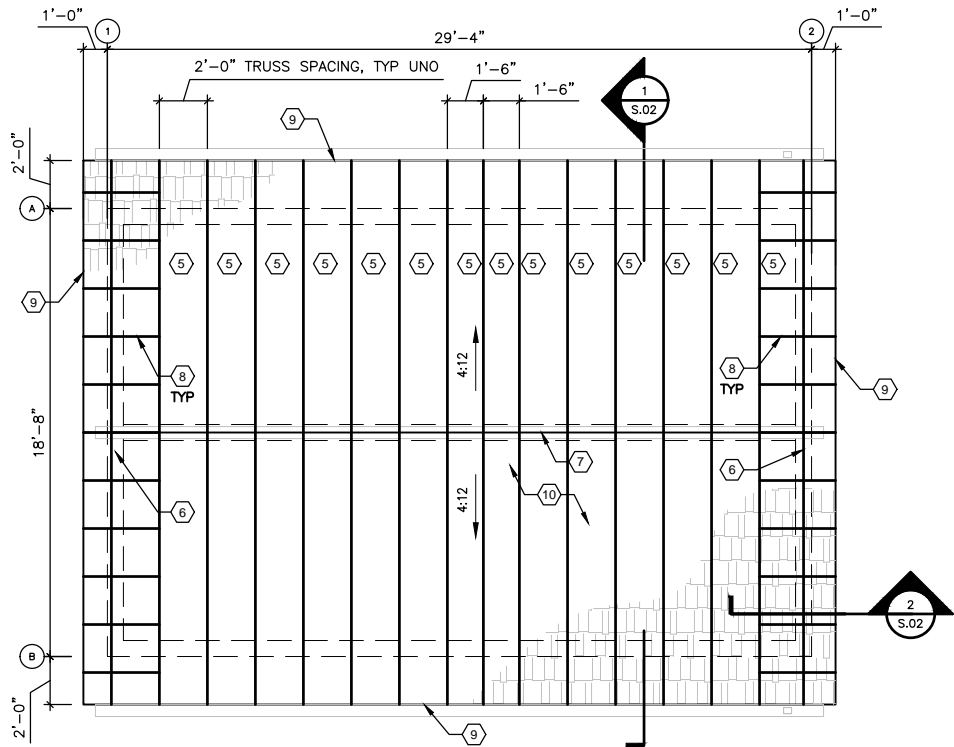


5 DOOR JAMB DETAIL

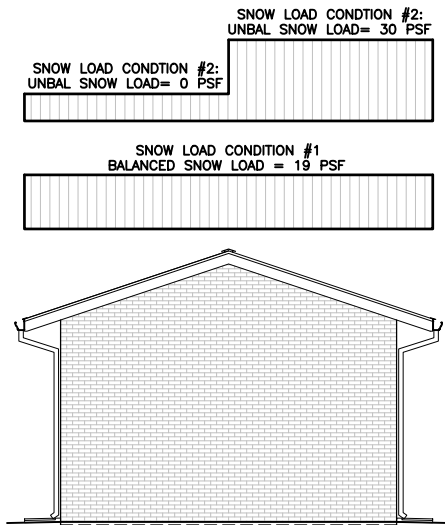
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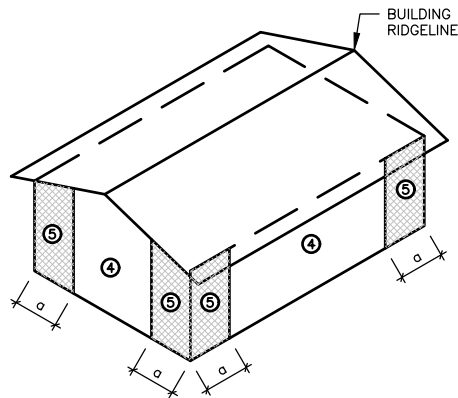
JORDAN WELL PUMP HOUSE
FOUNDATION PLAN VIEW
SCALE: 1/4" = 1'-0"



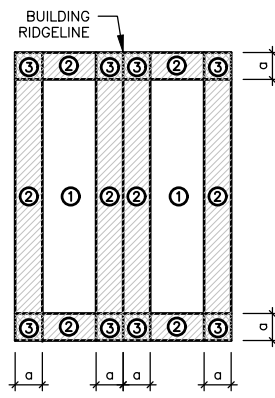
JORDAN WELL PUMP HOUSE
ROOF PLAN VIEW
SCALE: 1/4" = 1'-0"



JORDAN PUMP HOUSE
SNOW LOAD DIAGRAM
SCALE: NOT TO SCALE



BUILDING ISOMETRIC VIEW



ROOF PLAN VIEW

COMPONENTS & CLADDING WIND LOAD DESIGN PRESSURE SCHEDULE				
COMPONENTS	ZONE	EFFECTIVE WIND AREA (SF)	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
ROOF ELEMENTS	1	10	19	-29
		20	17	-28
		50	15	-27
		>100	13	-26
	2	10	19	-64
		20	17	-64
	3	10	19	-104
		20	17	-94
		50	15	-81
		>100	13	-72
EXTERIOR WALL ELEMENTS, WINDOWS, DOORS AND CURTAIN WALLS	4	10	32	-34
		20	30	-33
		50	28	-31
		>100	27	-30
	5	10	32	-42
		20	30	-40
		50	28	-36
		>100	27	-33

NOTES:
1. DESIGN WIND PRESSURES SHALL BE USED IN THE DESIGN OF ALL COMPONENTS AND CLADDING ELEMENTS COMPRISING THE BUILDING ENVELOPE.
2. REFER TO THE WIND PRESSURE DIAGRAM FOR ZONE LOCATIONS AND EXTENTS.
3. POSITIVE PRESSURES ACT TOWARD COMPONENT SURFACES AND NEGATIVE PRESSURES ACT AWAY FROM EACH COMPONENT SURFACE.
4. LINEAR INTERPOLATION BETWEEN EFFECTIVE WIND AREAS MAY BE USED TO OBTAIN THE REQUIRED COMPONENT AND CLADDING DESIGN WIND PRESSURE.
5. VALUES FOR OVERHANGS INCLUDE PRESSURE CONTRIBUTIONS FROM BOTH UPPER AND LOWER SURFACES.
6. DIMENSION α = 3'-0".

BUILDING CRITERIA & DESIGN LOADS:

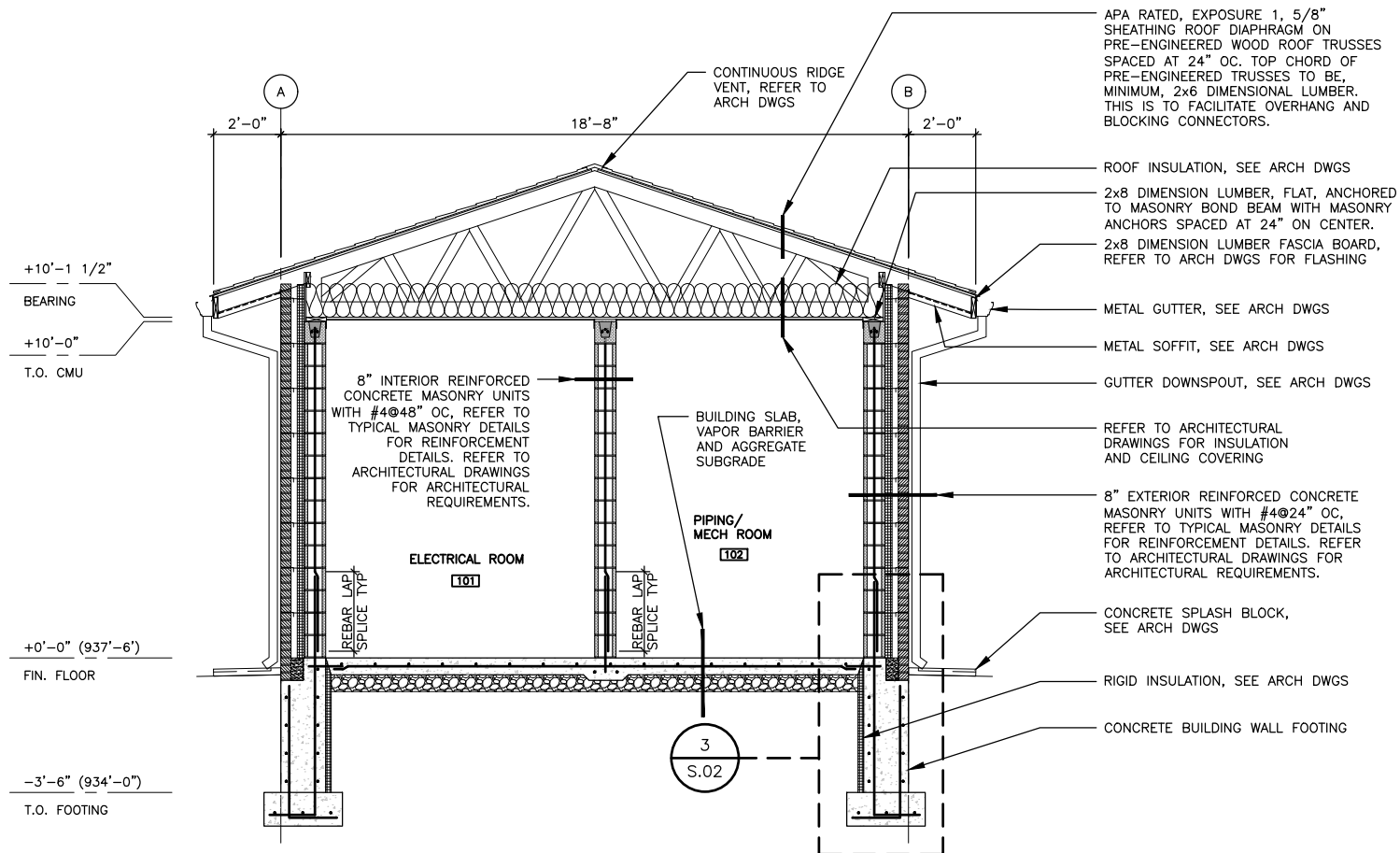
- BUILDING RISK CATEGORY IV
- ROOF DESIGN LOADS
 - SUPERIMPOSED ROOF DEAD LOAD = 25 PSF + SELF WEIGHT (ONLY INCLUDE SELF WEIGHT FOR ROOF UPLIFT DESIGN CASES)
 - ROOF COLLATERAL LOAD = 10 PSF
 - ROOF LIVE LOAD = 20 PSF
 - ROOF SNOW LOAD = SEE SNOW LOAD DIAGRAM
- SLAB-ON-GRADE DESIGN LOADS
 - DEAD LOAD = EQUIPMENT WEIGHT + SELF WEIGHT
 - LIVE LOAD = 250 PSF
 - GROUND SNOW LOAD = 25 PSF
- WIND DESIGN LOADS
 - BASIC WIND SPEED = 120 MPH
 - EXPOSURE CATEGORY = C
 - INTERNAL PRESSURE COEFFICIENT, G_{CPI} = +/-0.18
- SEISMIC DESIGN LOADS
 - SEISMIC ACCELERATION VALUES: S_s = 0.071, S_1 = 0.055
 - ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE
 - SITE CLASS = D
 - SEISMIC DESIGN PARAMETERS: S_{ds} = 0.076, S_{d1} = 0.088
 - SEISMIC DESIGN CATEGORY = C
 - LATERAL SYSTEM = ORDINARY PLAIN MASONRY SHEAR WALLS
 - LATERAL RESPONSE COEFFICIENT, R = 1.5
 - SEISMIC RESPONSE COEFFICIENT, C_s = 0.0828

NOTES:

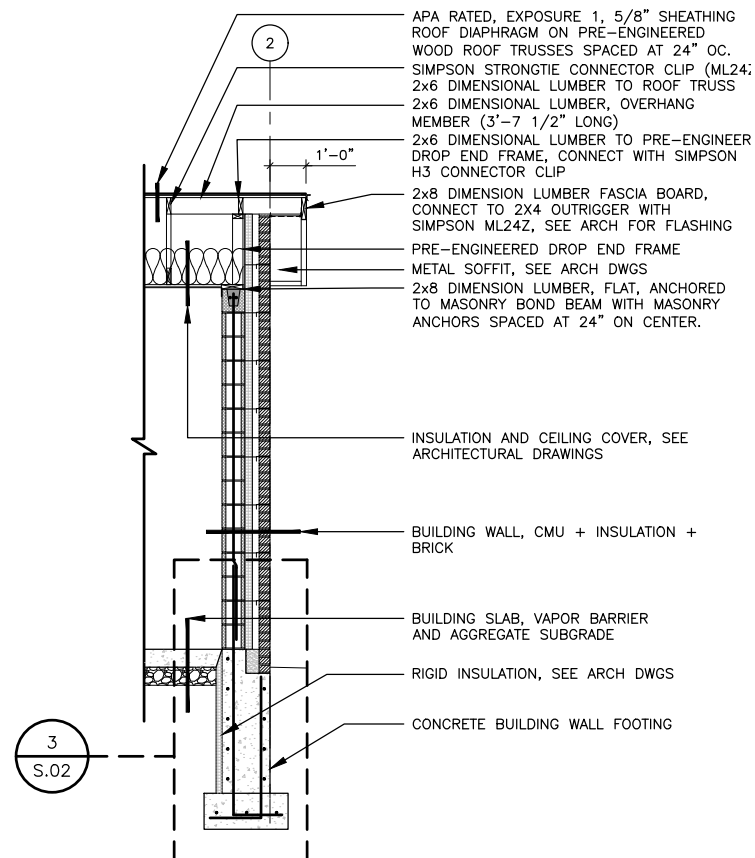
- REFER TO GENERAL NOTES AND STANDARD STRUCTURAL DETAILS.
- MINIMUM DEPTH OF FOOTINGS FOR FROST PROTECTION = 3'-6". REFER TO PLANS, ELEVATIONS & SECTIONS FOR FOOTING DEPTHS.
- FOLLOW ALL RECOMMENDATIONS IN GEOTECHNICAL REPORT BY TERRACON, REPORT DATED APRIL 4, 2021. TERRACON PROJECT NUMBER 08215017.02. ANAMOSA WELLHOUSE BUILDING.
- REFER TO CIVIL SITE PLANS FOR BUILDING LOCATION AND ORIENTATION ON THE SITE.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR MASONRY BLOCK, CONCRETE AND WOOD FRAMING FOR ENGINEER REVIEW. NOTE THAT SHOP DRAWINGS THAT ARE A DELEGATED DESIGN, SUCH AS THE PRE-ENGINEERED WOOD TRUSSES SHOP DRAWINGS, MUST BE STAMPED BY THE WOOD TRUSS STRUCTURAL DESIGN ENGINEER. REFER TO SPECIFICATION FOR MORE REQUIREMENTS.

KEYNOTES:

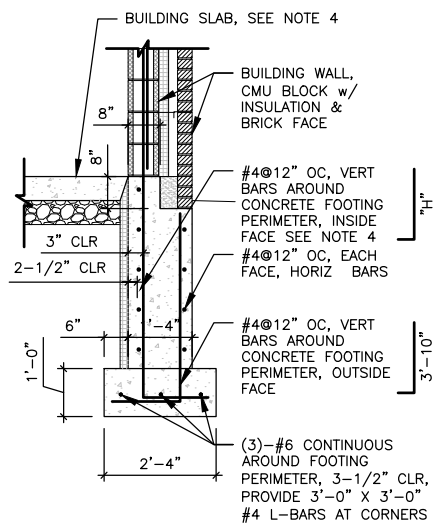
- CONCRETE DOOR STOOP.
- CONCRETE INTERIOR HOUSEKEEPING PAD.
- CONCRETE GUTTER BLOCK, REFER TO ARCHITECTURAL PLANS.
- ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL PLANS.
- PRE-ENGINEERED WOOD ROOF TRUSSES, DELEGATED DESIGN. IN ADDITION TO THE GRAVITY FORCES, THE TRUSS MUST ALSO BE CAPABLE OF TRANSFER +/-600 LBS OF LATERAL LOAD (WIND) FROM THE BOTTOM CHORD TO THE TOP CHORD TO FACILITATE OUT OF PLANE BRACING FOR THE TOP OF THE MASONRY WALL VIA THE ROOF DIAPHRAGM SUPPORT.
- PRE-ENGINEERED WOOD DROPPED END FRAME, DELEGATED DESIGN. PROVIDE LATERAL BRACING AS SHOWN ON DETAIL DOCUMENTS TO BRACE THE TOP OF THE MASONRY WALL VIA THE ROOF DIAPHRAGM. IF NECESSARY, WOOD FRAME DESIGNER MAY ADD ADDITIONAL BRACING AS REQUIRED BY THEIR FRAMING DESIGN TOO.
- ROOF RIDGE-LINE, REFER TO ARCHITECTURAL FOR RIDGE DETAILS.
- 2x6 DIMENSIONAL LUMBER OVERHANGS AT 24" ON CENTER. REFER TO ELEVATION VIEWS FOR CONNECTION DETAILS AND REQUIRED BLOCKING.
- 2x8 DIMENSIONAL LUMBER EAVE BOARD, REFER TO ELEVATIONS FOR CONNECTION DETAILS.
- APA RATED, EXPOSURE 1, 5/8" THICK OSB ROOF SHEATHING PANELS WITH 8d NAILS SPACED AT 6" OC AT OSB SUPPORTED EDGES AND 12" OC AT INTERMEDIATE SUPPORTS. PROVIDE A MINIMUM OF 1-3/8" NAIL PENETRATION. REFER TO SPECIFICATIONS FOR ADDITIONAL PRODUCT REQUIREMENTS.



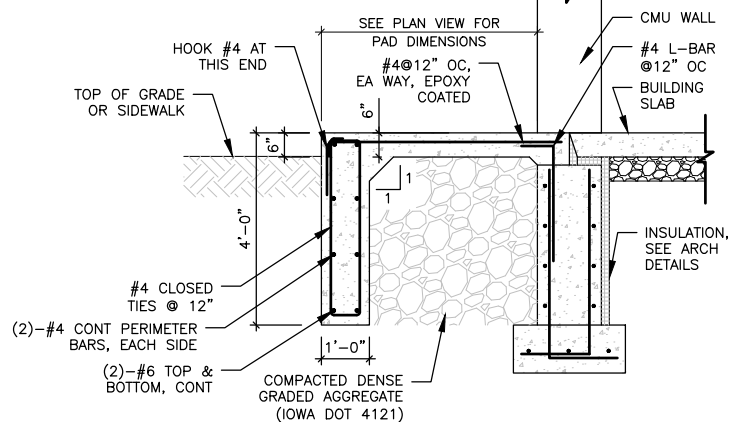
1 FULL BUILDING SECTION
SCALE: 3/8" = 1'-0"



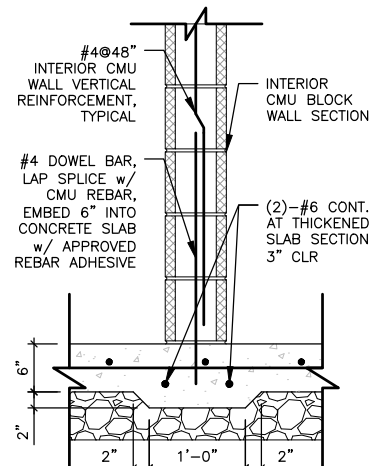
2 SIDE WALL SECTION
SCALE: 3/8" = 1'-0"



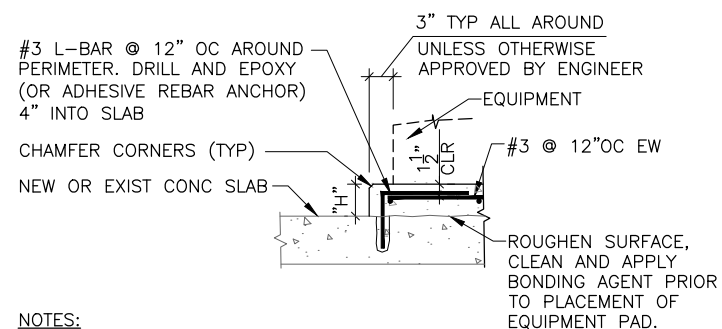
3 WALL FOOTING SECTION
SCALE: 1/2" = 1'-0"



4 DOOR STOOP SECTION
SCALE: 1/2" = 1'-0"



5 INTERIOR CMU WALL FOOTING DETAIL
SCALE: 1" = 1'-0"



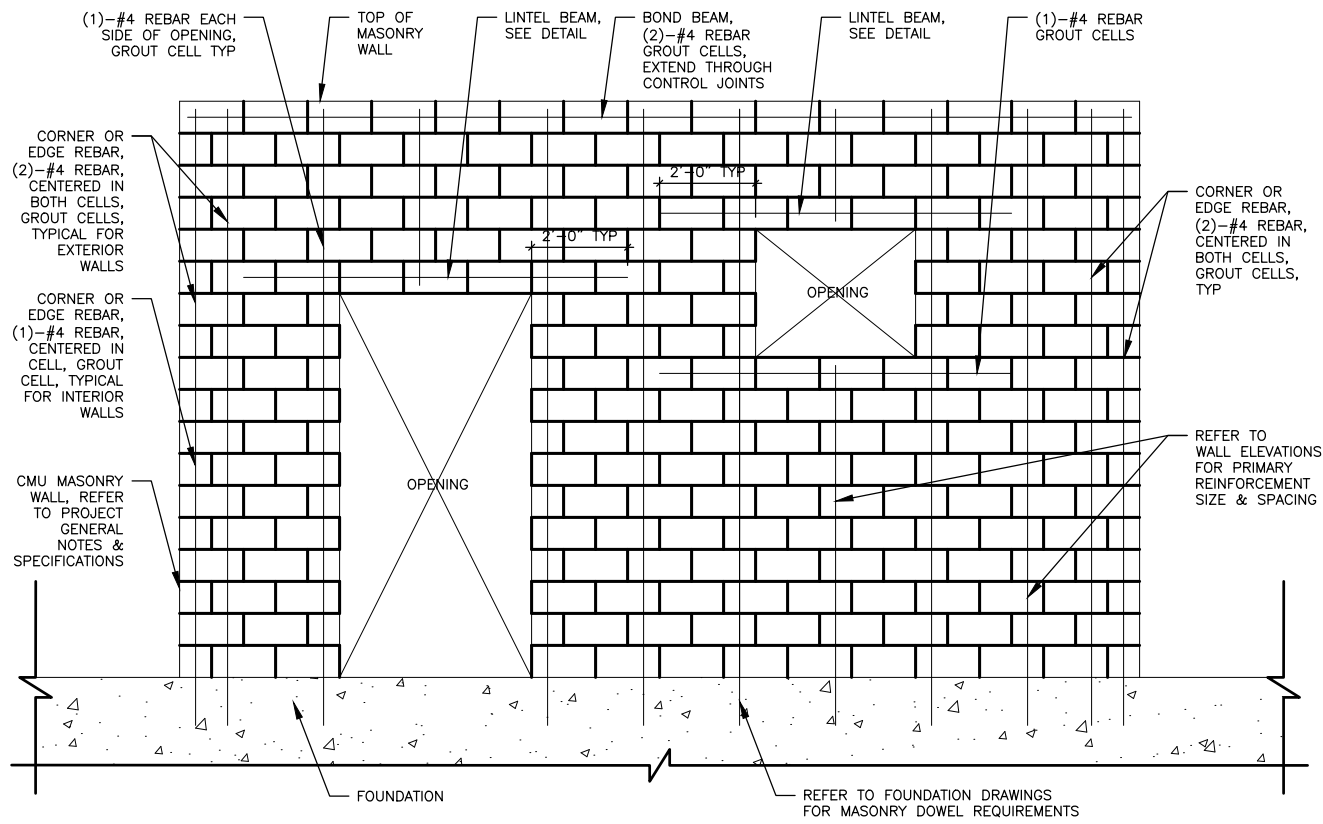
NOTES:

- "H" TO BE DETERMINED BY MOUNTING HEIGHT OF EQUIPMENT.
- "H" SHALL NOT BE LESS THAN 4" OR GREATER THAN 8" WITHOUT ENGINEER'S APPROVAL.
- FOR BIDDING PURPOSES ASSUME "H"=6" UNLESS NOTED OTHERWISE.

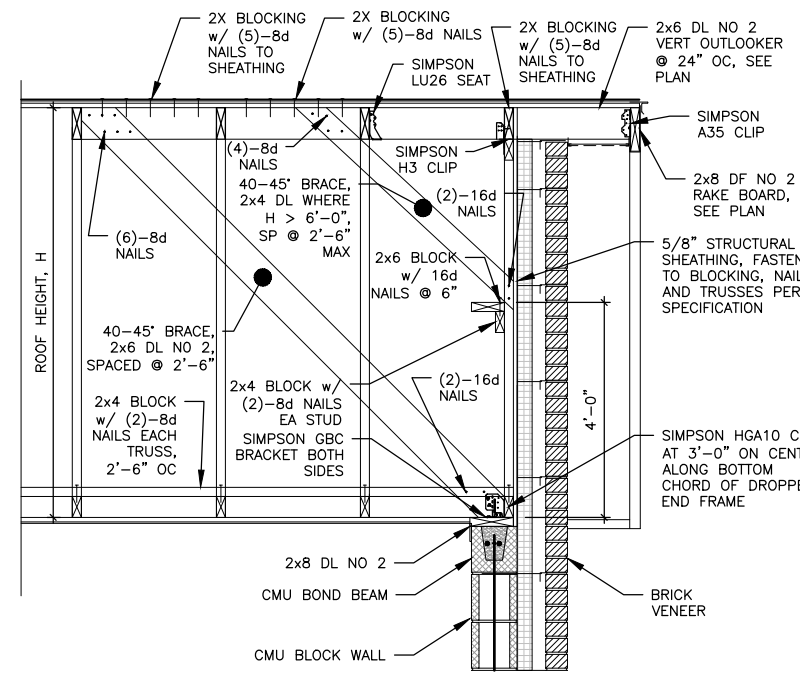
6 HOUSEKEEPING PAD TYPICAL DETAIL
SCALE: 1" = 1'-0"

NOTES:

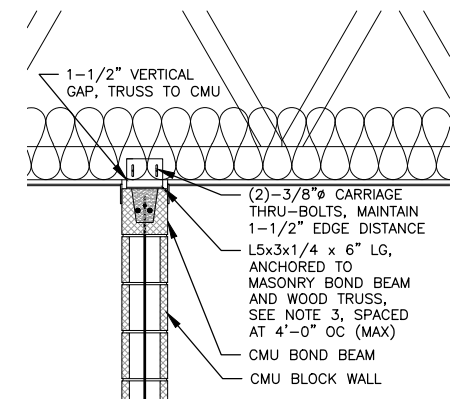
- REFER TO GENERAL NOTES AND STANDARD STRUCTURAL DETAILS.
- MINIMUM DEPTH OF FOOTINGS FOR FROST PROTECTION = 3'-6".
- FOLLOW ALL RECOMMENDATIONS IN GEOTECHNICAL REPORT BY TERRACON, REPORT DATED APRIL 4, 2021. TERRACON PROJECT NUMBER 06215017.02. ANAMOSA WELHOUSE BUILDING.
- EXTEND HALF OF THE #4@12" OC PRIMARY VERTICAL BARS INTO THE MASONRY WALL TO VERTICALLY SPLICE WITH THE #4@24" OC MASONRY VERTICAL REBAR, #4 MASONRY CORNER REBAR, #4 MASONRY INTERSECTION REBAR, AND #4 VERTICAL BARS FOR MASONRY OPENINGS. THE VERTICAL LEG ON THESE "TALL" DOWEL BARS WILL HAVE AN "H" = 7'-0". INFILL BETWEEN THE "TALL" DOWEL REBAR WITH "SHORT" DOWEL BARS TO ENSURE REBAR SPACING WITHIN THE FOOTING EQUALS #4@12" ON THIS FOOTING WALL FACE. THE VERTICAL LEG ON THESE "SHORT" DOWEL BARS WILL HAVE AN "H" = 4'-9".
- BUILDING SLAB IS 6" THICK CONCRETE REINFORCED WITH #4@12" OC, EACH WAY, 3" CLR AT BOTTOM. PROVIDE A MINIMUM BEDDING UNDERNEATH THE SLAB OF 6" IDOT 4121 BASE COARSE (DENSE GRADE AGGREGATE) COMPACTED TO 98% STANDARD PROCTOR. PROVIDE A VAPOR BARRIER DIRECTLY UNDERNEATH THE FLOOR SLAB INSTALLED PER PROPER SPECIFICATIONS. AROUND THE PERIMETER JOINT PROVIDE 1/2"Ø x 12" LONG SLIP DOWELS ACROSS THE EXPANSION JOINTS. PROVIDE 3" CLR FOR SLIP DOWELS, EMBED 6" INTO EACH SIDE OF JOINT AND PROVIDE APPROVED SLIP DOWEL PLASTIC SLEEVE ON SLAB SIDE.
- REFER TO ARCHITECTURAL DRAWINGS FOR TRUSS HEAL HEIGHT AT THE END SEAT LOCATIONS OF THE WOOD TRUSSES.



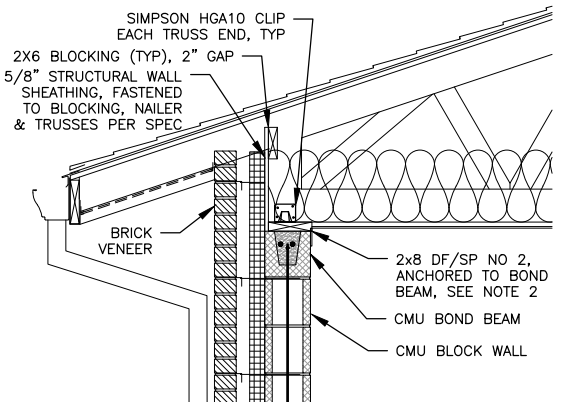
1 CMU REINFORCING & OPENING TYPICAL DETAIL
SCALE: NONE



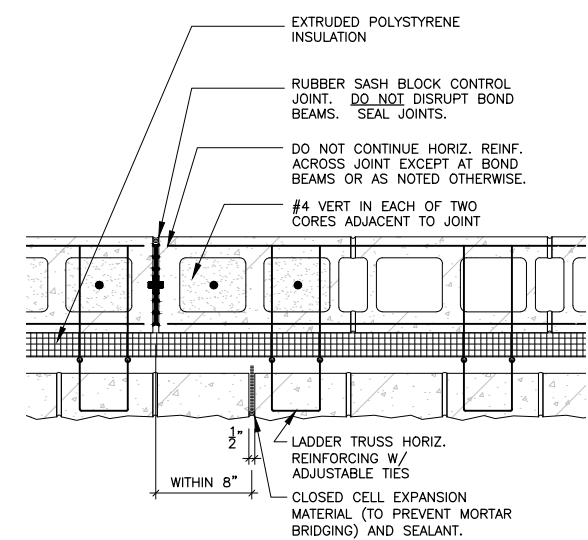
2 EXTERIOR LOAD BEARING CMU TO WOOD TRUSS CONNECTION
SCALE: NONE



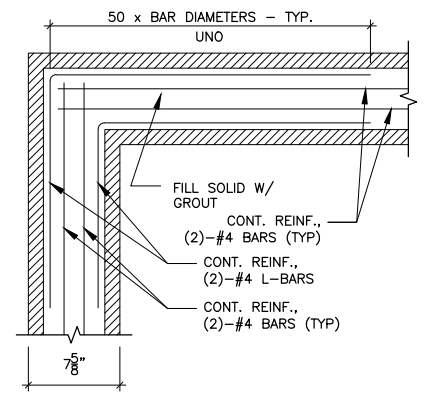
3 INTERIOR NON-LOAD BEARING CMU TO WOOD TRUSS CONNECTION
SCALE: NONE



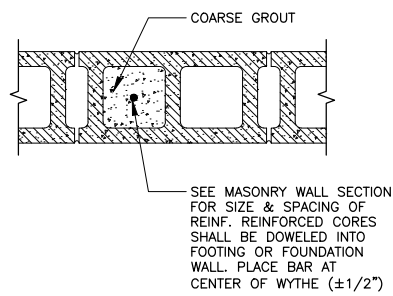
4 EXTERIOR LOAD BEARING CMU TO WOOD TRUSS CONNECTION
SCALE: NONE



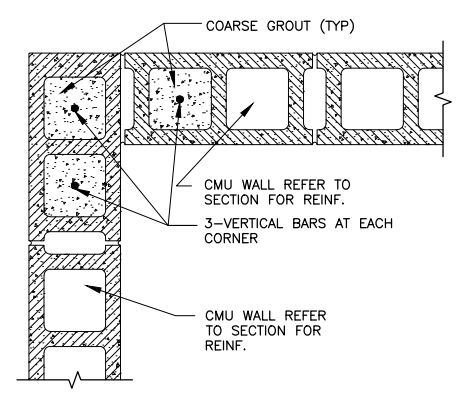
5 EXTERIOR CMU WALL CONTROL JOINT DETAIL
SCALE: NONE



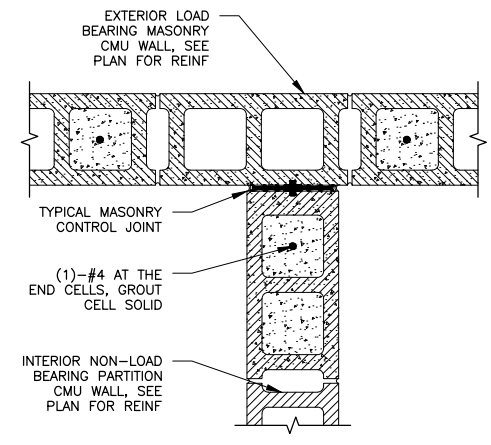
6 CMU REINFORCEMENT AT BOND BEAM CORNERS
SCALE: 1-1/2" = 1'-0"



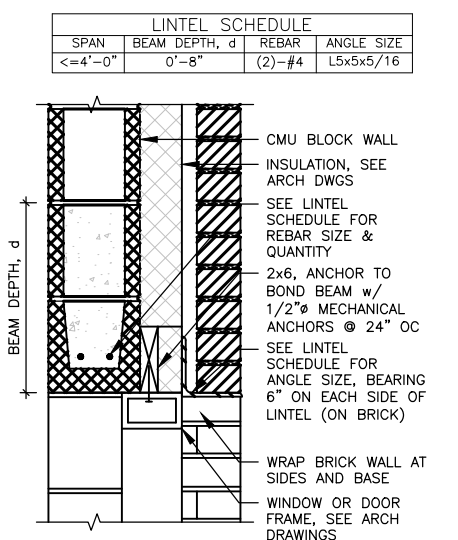
7 CMU REINFORCEMENT TYPICAL CORE DETAILS
SCALE: 1-1/2" = 1'-0"



8 CMU REINFORCEMENT AT BUILDING CORNERS
SCALE: 1-1/2" = 1'-0"



9 CMU REINFORCEMENT AT INTERIOR INTERSECTION
SCALE: 1-1/2" = 1'-0"



10 LINTEL DETAILS
SCALE: 1-1/2" = 1'-0"

- NOTES:**
- REFER TO GENERAL NOTES AND STANDARD STRUCTURAL DETAILS.
 - ANCHORS CONNECTING THE TOP MASONRY BOND BEAM TO THE WOOD FLAT 2X8 NAILER BOARD FOR EXTERIOR WALLS SHALL BE CAST-IN-PLACE J-BOLTS SPACED AT 2'-0" ON-CENTER AROUND THE BUILDING PERIMETER. BOLTS SHALL BE 1/2" DIAMETER AND EMBEDDED 6" INTO THE MASONRY BOND BEAMS; ALONG WITH 4" PROJECTION ABOVE BOND BEAM TO PROPERLY ANCHOR THE WOOD NAILER. BOLTS SHALL BE CENTERED ON THE BOND BEAM AND 2X8 WOOD NAILER BOARD. J-BOLT SHALL BE F1554 GR 36, WITH HARDENED WASHER AND HEAVY HEAVY NUT. ALL HARDWARE SHALL BE HOT DIP GALVANIZED.
 - INTERIOR MASONRY WALL SHALL BE CLIPPED TO THE WOOD TRUSSES TO ONLY TRANSFER LATERAL LOAD (200 LB MAX). CLIPS SHALL BE SPACED AT 4'-0" ON CENTER MAXIMUM ALONG THE TOP OF THE WALL. CLIPS SHALL BE L5x3x1/4 ANGLES ANCHORED TO THE MASONRY BOND BEAM WITH TWO 1/2" J BOLT, SIMILAR TO NOTE 2, 1-1/2" EDGE DISTANCE AND 3" SPACING. TWO 3/8" STEEL CARRIAGE BOLTS WITH LONG SLOT HOLES (2"x7/16") SPACED 4" APART ON THE 5" VERTICAL LEG. SNUG TIGHT BOLTS ONLY ENOUGH TO SECURE BUT STILL ALLOW VERTICAL MOVEMENT. ADD LOCK NUT TO PREVENT NUT ROTATION.
 - ALL 2X4 BLOCKING SHALL HAVE (2)-8D NAILS EACH END (4 TOTAL), UNLESS NOTED OTHERWISE. IN ADDITION, ALL 2X4 BLOCKING SHALL HAVE (3)-8D NAILS EACH END (6 TOTAL), UNLESS NOTED OTHERWISE.
 - NAIL SPACING AND EDGE DISTANCE SHALL FOLLOW AWC STANDARDS TO PREVENT WOOD SPLITTING, CRACKING OR FAILURE.

LINTEL SCHEDULE			
SPAN	BEAM DEPTH, d	REBAR	ANGLE SIZE
<=4'-0"	0'-8"	(2)-#4	L5x5x5/16

Xref: xgt-1-dh01: xs-1-d10

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APPROVED: JAS JOB NUMBER: 190261
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CAD FILE: J:\2019\190261\CAD\DWGS\BP2\S\03 BUILDING SECTIONS & DETAILS.dwg

BAR IS ONE INCH ON OFFICIAL DRAWINGS.
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

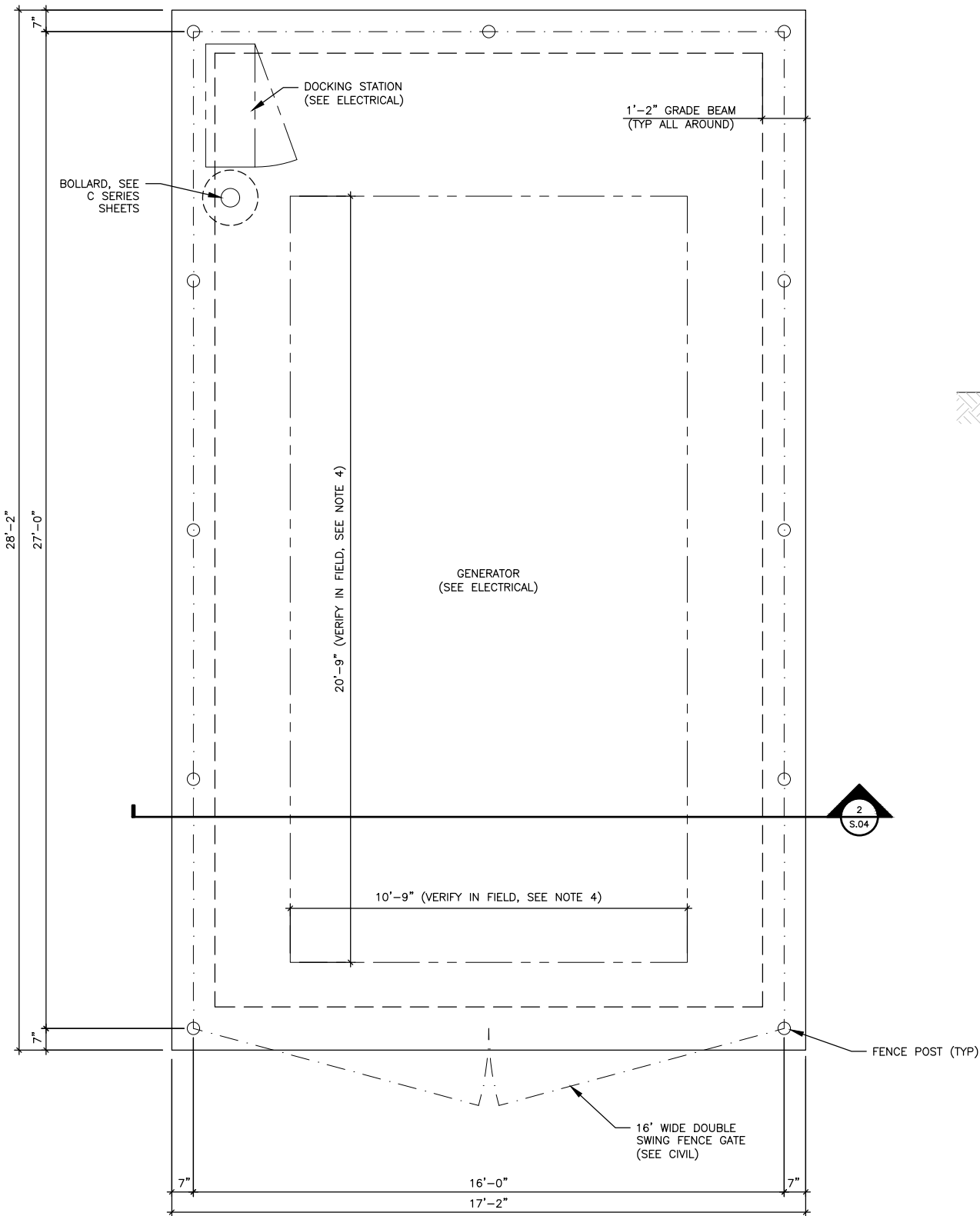
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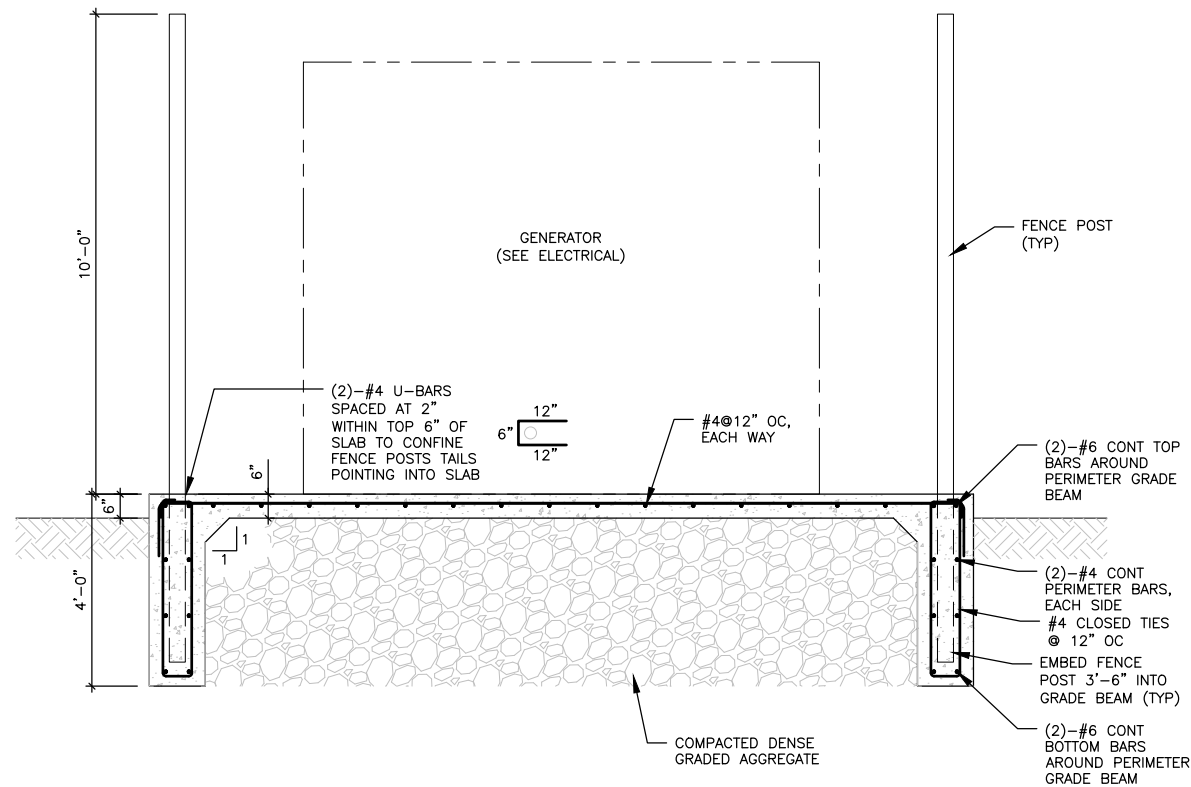
JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

S - STRUCTURAL
BUILDING SECTIONS & DETAILS

SHEET NO.
S.03



1 GENERATOR PAD PLAN
SCALE: 1/2" = 1'-0"



2 GENERATOR PAD SECTION
SCALE: 1/2" = 1'-0"

GENERATOR PAD CRITERIA & DESIGN LOADS:

1. BUILDING RISK CATEGORY IV
2. SLAB-ON-GRADE DESIGN LOADS
 - 2.1. DEAD LOAD = EQUIPMENT WEIGHT + SELF WEIGHT
 - 2.2. LIVE LOAD = 250 PSF
 - 2.3. GROUND SNOW LOAD = 25 PSF

NOTES:

1. REFER TO GENERAL NOTES AND STANDARD STRUCTURAL DETAILS.
2. MINIMUM DEPTH OF FOOTINGS FOR FROST PROTECTION = 3'-6". REFER TO PLANS, ELEVATIONS & SECTIONS FOR FOOTING DEPTHS.
3. FOUNDATION DESIGN IS BASED ON BEARING CAPACITY OF 1,500 PSF. VERIFY BEARING CAPACITY AT THE BEARING ELEVATION WITH AN IOWA-REGISTERED GEOTECHNICAL ENGINEER PRIOR TO FORMING FOUNDATION.
4. GENERATOR SIZE IS BASED ON PRELIMINARY INFORMATION. CONTRACTOR TO VERIFY DIMENSIONS IN THE FIELD. IF DIMENSIONS ARE DIFFERENT THEN THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ENGINEER TO ADJUST THE GENERATOR PAD SIZE ACCORDINGLY.

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APPROVED: DAS JOB NUMBER: 190261
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BAR IS ONE INCH ON
OFFICIAL DRAWINGS.
0 1"

IF NOT ONE INCH,
ADJUST SCALE ACCORDINGLY.

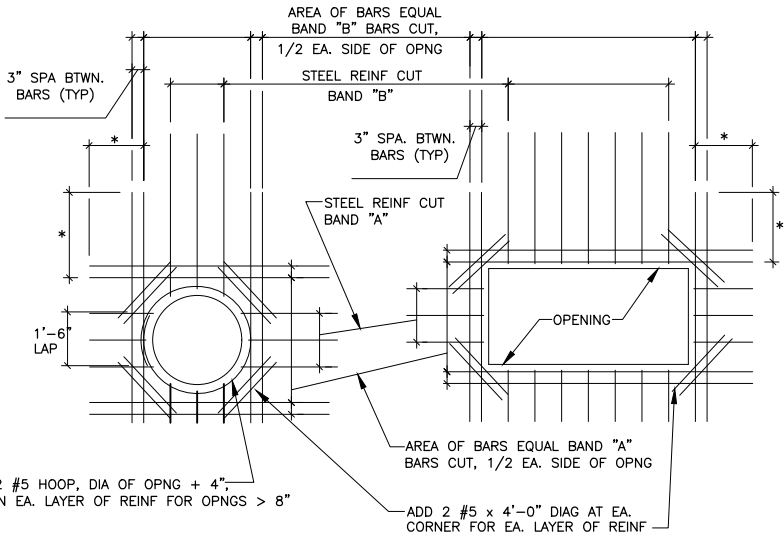
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JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

S - STRUCTURAL
GENERATOR FOUNDATION PLAN

SHEET NO.
S.04



NOTES:

1. * TOP BAR LAP LENGTH-CONDITION #2, UNLESS NOTED OTHERWISE ON PLANS.
2. DO NOT WELD REINF TO PIPE SLEEVES AND INSERTS.
3. TYP FOR ALL OPNGS IN CONC. WALLS AND SLABS UNLESS INDICATED OTHERWISE ON PLANS.
4. COORDINATE WALL OPENINGS WITH ALL DISCIPLINES.

1 TYPICAL OPENING REINFORCEMENT

SCALE: NONE

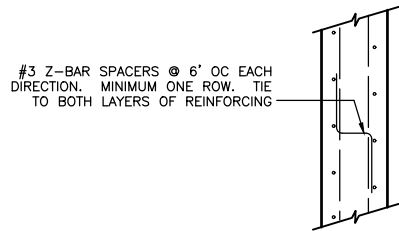
REINF LAP SPLICE TABLE — CONCRETE						HOOKS		
BAR SIZE	CONDITION 1		CONDITION 2		CONDITION 3	STANDARD 90 DEGREE HOOK LENGTH		
	CLEAR COVER >= 2 DIA. AND C-TO-C SPACING >= 5 DIA.		CLEAR COVER >= 1 DIA. AND C-TO-C SPACING >= 3 DIA.		NEITHER CONDITION 1 NOR 2 IS MET			
	TOP *	OTHER	TOP *	OTHER	ALL BARS			
	#3	1'-4"	1'-4"	2'-0"	1'-6"		SEE NOTE 3	0'-6"
	#4	1'-7"	1'-4"	2'-8"	2'-1"			0'-8"
#5	2'-0"	1'-6"	3'-4"	2'-8"	0'-10"			
#6	2'-6"	1'-10"	4'-0"	3'-1"	SEE NOTE 3	1'-0"		
#7	3'-6"	2'-9"	5'-10"	4'-7"		1'-2"		
#8	4'-0"	3'-1"	6'-8"	5'-2"		1'-4"		
#9	4'-6"	3'-6"	7'-7"	5'-10"		1'-7"		
#10	5'-1"	3'-11"	8'-6"	6'-6"	SEE NOTE 3	1'-10"		
#11	5'-8"	4'-4"	9'-5"	7'-4"		2'-0"		

NOTES:

1. BAR COVER AND SPACING MUST BOTH MEET THE CRITERIA OF CONDITION 1 OR 2 IN ORDER TO USE THAT PARTICULAR LAP LENGTH.
2. TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.
3. FOR BARS THAT DO NOT SATISFY EITHER CONDITION, LAP LENGTH SHALL BE THE LENGTH FROM THE APPROPRIATE CATEGORY ("TOP" OR "OTHER") OF CONDITION 2 MULTIPLIED BY 1.5.
4. FOR EPOXY-COATED BARS, MULTIPLY FINAL LAP LENGTH BY 1.5.
5. MASONRY REINFORCING:
#5 AND SMALLER: USE 50 TIMES BAR DIA UNO.
#6 AND LARGER: USE 70 TIMES BAR DIA UNO.

2 CONCRETE REBAR AND LAP SPLICE

SCALE: NONE



3 SPACERS FOR WALL REINFORCEMENT

SCALE: NONE

ADHESIVE AND EXPANSION ANCHORS
UNLESS OTHERWISE NOTED

DIAMETER	3/8"	1/2"	5/8"	3/4"	7/8"	1"
EXP ANCH EMBED.	3"	4"	5"	6"	7"	8"
ADHESIVE ANCH EMBED.	2 1/2"	3"	3 3/4"	4 1/2"	5 1/4"	6"
ALLOWABLE TENSION (LB)	1220	2040	3120	3700	4080	6040
ALLOWABLE SHEAR (LB)	840	1330	2660	3350	5530	6250
CLOSEST ANCHOR (IN) (SEE NOTES C & I)	6 3/4	9	11 1/4	13 1/2	15 3/4	18
CLOSEST EDGE (IN) (SEE NOTE I)	9	12	15	18	21	24

ANCHORAGE TO CONCRETE – POST-INSTALLED ANCHORS NOTES:

- A. UNLESS NOTED OTHERWISE, ANCHORS MAY BE EITHER EXPANSION OR ADHESIVE.
- B. UNLESS NOTED OTHERWISE, MINIMUM EMBEDMENT SHALL BE PER TABLE ABOVE. IN NO CASE MAY THE EMBEDMENT BE LESS THAN THE MANUFACTURER'S "MINIMUM EMBEDMENT" FROM PUBLISHED CATALOG LITERATURE.
- C. UNLESS NOTED OTHERWISE, MINIMUM CENTER-TO-CENTER SPACING BETWEEN ANCHORS SHALL BE PER TABLE ABOVE ("CLOSEST ANCHOR").
- D. EXPANSION ANCHORS – WEDGE-TYPE, GRADE 316 STAINLESS STEEL. MANUFACTURERS: HILTI "KWIK BOLT III"; ITW RED HEAD "TRUBOLT"; POWERS "POWER-STUD"; OR SIMPSON "WEDGE-ALL".
- E. ADHESIVE ANCHORS – EPOXY OR ACRYLIC ADHESIVE WITH GRADE 316 STAINLESS STEEL THREADED ROD. MANUFACTURERS: HILTI "RE500-SD"; ITW RED HEAD "EPCON G5" OR POWERS "PE1000+", OR SIMPSON "SET-XP".
- F. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS AND ADDITIONAL RECOMMENDATIONS OF ICC EVALUATION SERVICE REPORT.
- G. ALL POST-INSTALLED ANCHORS MUST BE INSPECTED TWICE:
 - a. AFTER HOLE IS DRILLED AND CLEANED, AND
 - b. DURING INSTALLATION OF ADHESIVE AND ROD OR EXPANSION ANCHOR.
- H. ON DRAWINGS, ADHESIVE ANCHORS MAY ALSO BE REFERRED TO AS EPOXY OR EPOXY SET ANCHORS.
- I. FOR STATED ALLOWABLE LOAD VALUES TO APPLY, THERE MAY BE NO OTHER ANCHORS WITHIN (18 TIMES THE ANCHOR DIAMETER), AND THERE MAY BE NO FREE CONCRETE EDGE WITHIN (24 TIMES THE ANCHOR DIAMETER).
- J. FOR ANCHORS RESISTING TENSION AND SHEAR USE FOLLOWING EQUATION: (ACTUAL TENSION/ALLOWABLE TENSION) + (ACTUAL SHEAR/ALLOWABLE SHEAR) <1.00
- K. UNLESS NOTED OTHERWISE, ADHESIVE ANCHORS MAY NOT BE USED IN OVERHEAD APPLICATIONS.
- L. FOR STATED ALLOWABLE LOAD VALUES TO APPLY, DESIGN STRENGTH OF CONCRETE (F'c) MUST BE AT LEAST 4,000 PSI.
- M. CONCRETE ANCHORS MAY ALSO BE USED AT CMU, PROVIDED THAT CELLS AT AND ADJACENT TO ANCHOR ARE FULLY GROUTED (TOP AND BOTTOM, AND BOTH SIDES OF ANCHOR CELL). USE 1/2 OF ALLOWABLE LOADS STATED IN TABLE.

4 CONCRETE ANCHORS

SCALE: NONE

CONCRETE MATERIAL SCHEDULE

PROJECT USE	MIX 1 STRUCTURAL CONCRETE
PROPERTIES/MATERIALS	
COMPRESSIVE STRENGTH – MINIMUM	4,500 psi
PORTLAND CEMENT – ASTM C150	Type I/II
FLYASH – ASTM C618	15% max
AGGREGATE – COARSE – ASTM C33	1" max
AIR ENTRAINMENT – ASTM C260	6% ± 1%
SUPER PLASTICIZER – ASTM C494	(OPTIONAL) TYPE F
WATER TO CEMENT RATIO – MAXIMUM	0.44 max
SYNTHETIC FIBERS	ALL ELEV SLABS & FLATWORK
MAXIMUM UNIT WEIGHT	150 PCF

5 CONCRETE MIX

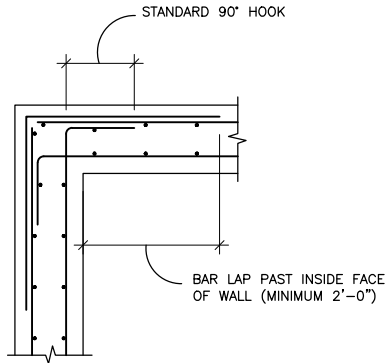
SCALE: NONE

CONCRETE PROTECTION FOR REINFORCEMENT
CLEAR CONCRETE COVER DISTANCES UNO

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE IN CONTACT WITH OR IMMEDIATELY ABOVE OR ADJACENT TO WATER/WASTEWATER	2"
CONCRETE EXPOSED TO EARTH OR WEATHER	
#6 THROUGH #11 BARS	2"
#5 AND SMALLER, W31 OR D31 WIRE	1 1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALLS AND JOISTS: #11 AND LARGER BARS	1 1/2"
#10 AND SMALLER BARS	LARGER OF 1" OR BAR DIA.
BEAMS AND COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS	1 1/2"

6 CONCRETE REINFORCEMENT PROTECTION

SCALE: NONE



7 TYPICAL CORNER WALL

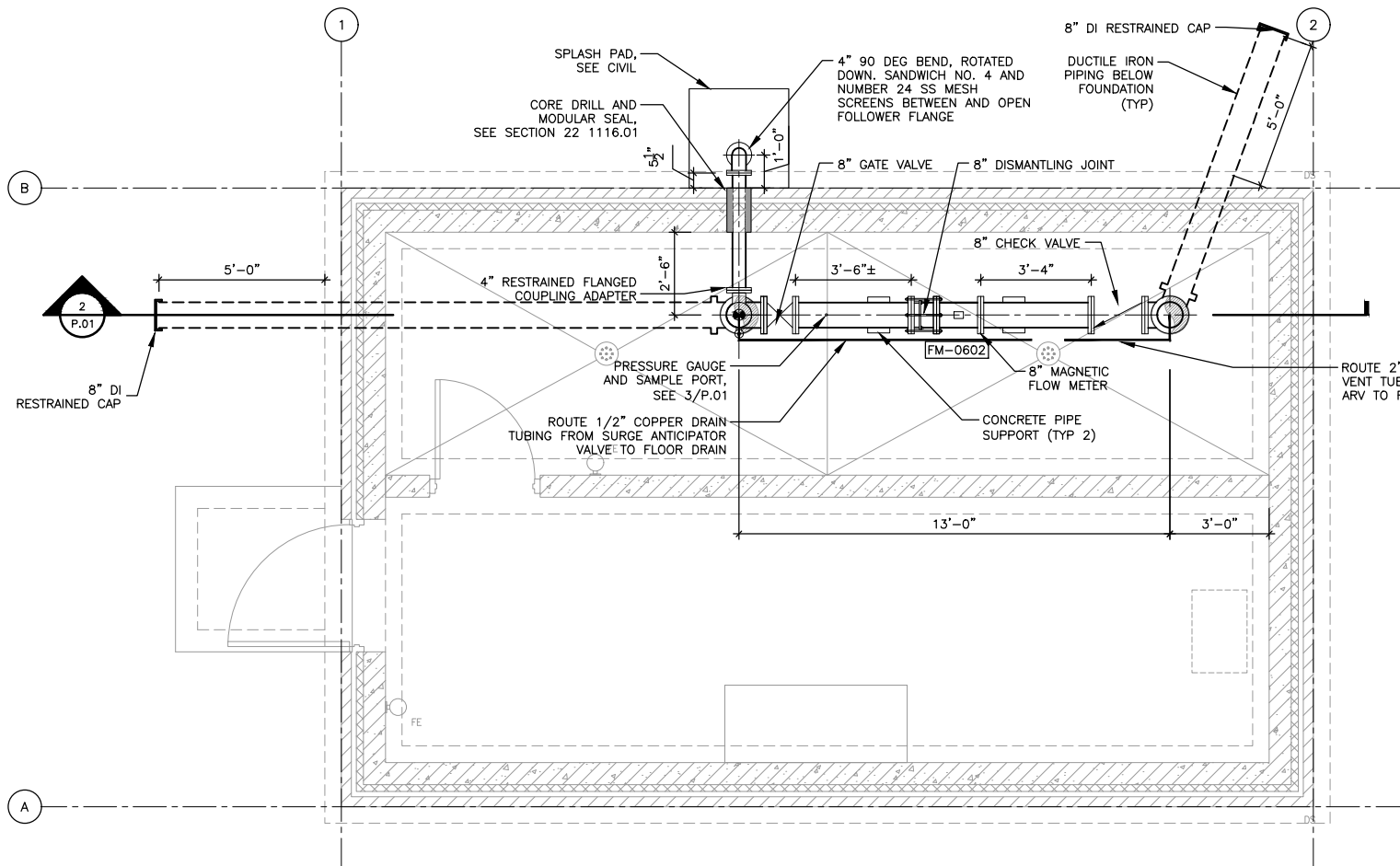
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DESIGN CRITERIA, STANDARDS & CODES:

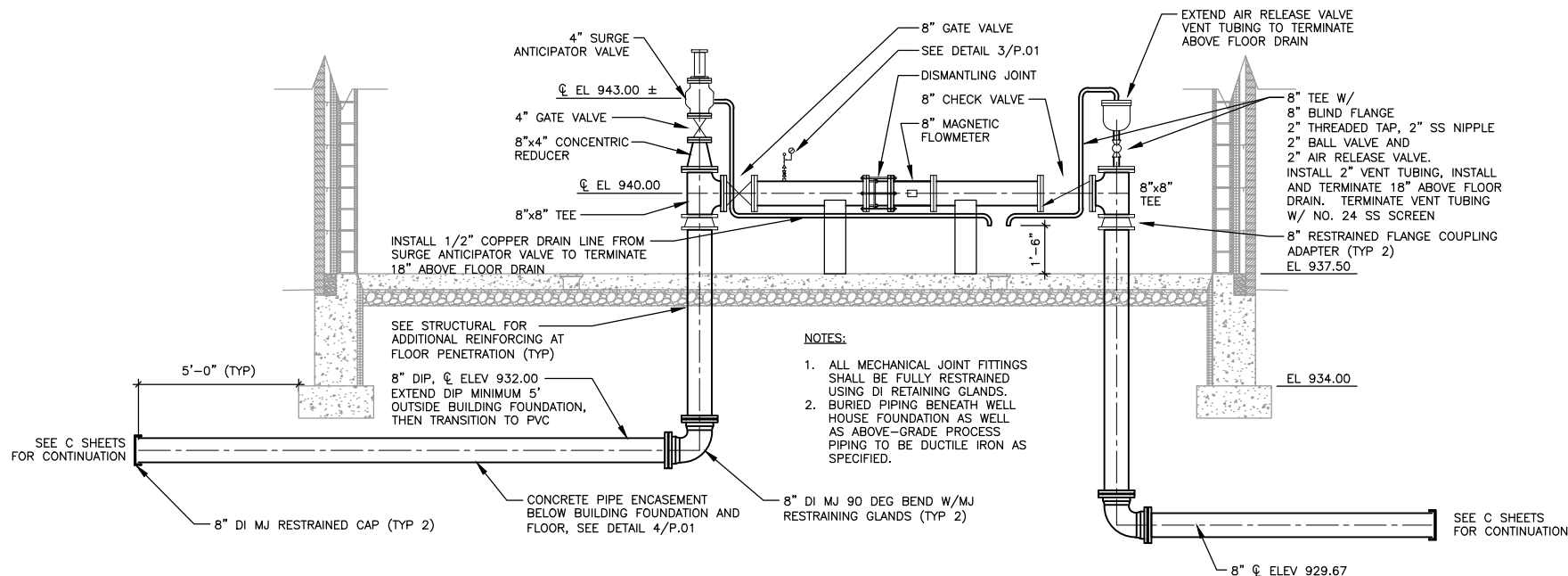
1. IOWA BUILDING CODE; ADOPTS 2015 INTERNATIONAL BUILDING CODE
2. AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-11)
3. AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR MASONRY CONSTRUCTION (ACI 530-13)
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION STEEL CONSTRUCTION MANUAL 14TH EDITION
5. AMERICAN WELDING SOCIETY
6. OCCUPATION HEALTH AND SAFETY ADMINISTRATION

GENERAL NOTES:

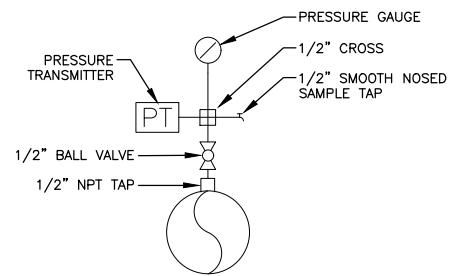
1. REFER TO PROJECT SPECIFICATIONS IN COMBINATION WITH DESIGN DRAWING SET.
2. FOLLOW ALL RECOMMENDATIONS IN GEOTECHNICAL REPORT BY TERRACON, REPORT DATED APRIL 4, 2021. TERRACON PROJECT NUMBER 06215017.02. ANAMOSA WELLHOUSE BUILDING.



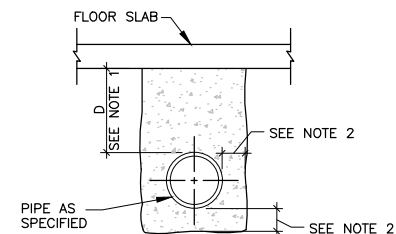
1 JORDAN WELL PUMP HOUSE PLAN
SCALE: 3/8"=1'-0"



2 JORDAN WELL PUMP HOUSE SECTION
SCALE: 3/8"=1'-0"

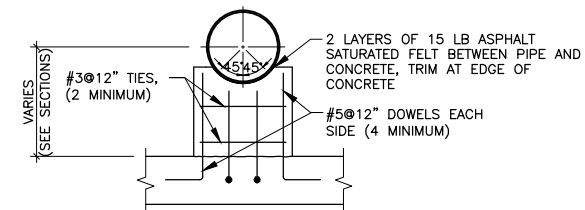


3 PRESSURE/SAMPLE TAP DETAIL
SCALE: NTS



- DETAIL NOTES:**
1. IF D IS LESS THAN 1'-6", PROVIDE ENCASEMENT CONTINUOUS TO SLAB. IF D IS GREATER THAN 1'-6", ENCASEMENT MAY BE SEPARATED FROM SLAB.
 2. 6" MINIMUM CONCRETE ENCASEMENT FOR 16" DIAMETER AND SMALLER PIPE, 12" MINIMUM CONCRETE ENCASEMENT FOR 18" DIAMETER AND LARGER PIPE.

4 CONCRETE ENCASEMENT DETAIL
SCALE: 1/2"=1'-0"



NOTES:

1. SUPPORT WIDTH, 8" FOR 12" AND SMALLER PIPE, 12" FOR 14" AND LARGER PIPE.
2. SUPPORT LENGTH = PIPE OD + 4" FOR 12" AND SMALLER PIPE, PIPE OD FOR 14" AND LARGER PIPE.
3. WHERE SUPPORT IS TO BE INSTALLED ON AN EXISTING SLAB, PROVIDE 2-#5 DOWELS, CORE DRILL AND EPOXY GROUTED ON EACH SIDE, TO REPLACE THE CAST-IN-PLACE DOWELS, EPOXY GROUTED DOWELS SHOULD EXTEND 10" INTO EXISTING SLAB.

5 PIPE SUPPORT DETAIL
NTS

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BAR IS ONE INCH ON
OFFICIAL DRAWINGS.
0 1"
IF NOT ONE INCH,
ADJUST SCALE ACCORDINGLY.

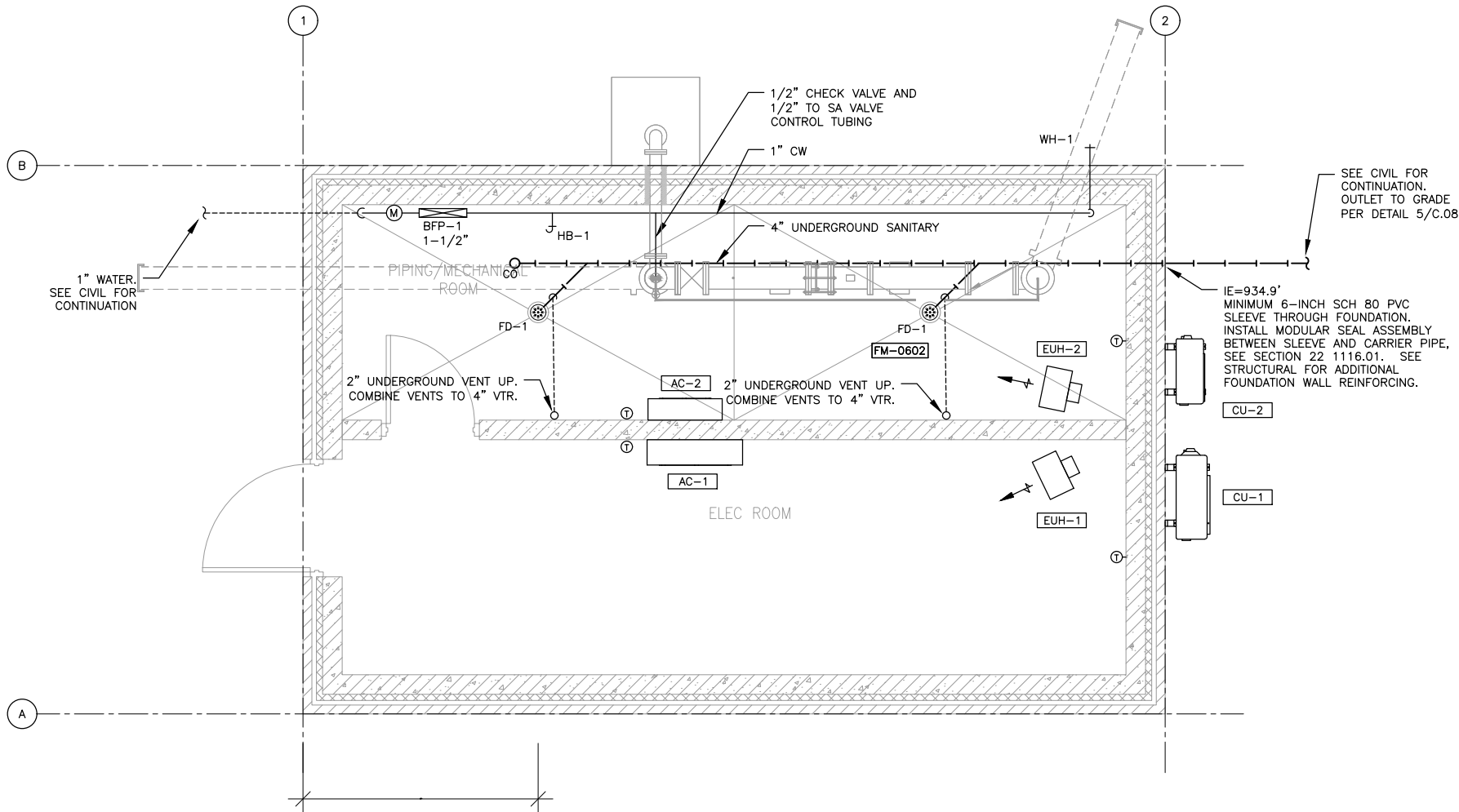
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JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

P - PROCESS
WELL HOUSE PIPING PLAN, SECTION &
DETAILS

SHEET NO.
P.01



JORDAN WELL
PUMP HOUSE PLAN
SCALE: 3/8"=1'-0"



DUCTLESS SPLIT SYSTEM AIR CONDITIONER SCHEDULE									
PLAN MARK	COOLING CAPACITY BTUH	CFM	ELECTRICAL			SEER	MOUNTING	MANUFACTURER & MODEL NUMBER	NOTES
			WATTS	VOLTS	PHASE				
AC-1	24,000	700	35	208	1	19.0	WALL	DAIKEN FTK SERIES	1,2
AC-2	10,200	430	38	208	1	19.0	WALL	DAIKEN FTK SERIES	1,2

NOTES:
1. WIRED CONTROLLER
2. ROUTE CONDENSATE TO NEAREST FLOOR DRAIN

DUCTLESS SPLIT SYSTEM CONDENSING UNIT SCHEDULE								
PLAN MARK	COOLING CAPACITY BTUH	OUTDOOR AMBIENT °F	ELECTRICAL		TOTAL SYSTEM MCA	REFRIGERANT	MANUFACTURER & MODEL NUMBER	NOTES
			VOLTS	PHASE				
CU-1	24,000	95	208	1	13.4	R-410A	DAIKEN RK SERIES	1, 2, 3
CU-2	10,200	95	208	1	7.0	R-410A	DAIKEN RK SERIES	1, 2, 3

NOTES:
1. WALL MOUNT BRACKET. MOUNT BOTTOM OF UNIT 3'-0" ABOVE GRADE.
2. TOTAL SYSTEM MCA INCLUDES OWER FOR INDOOR UNIT FROM EXTERIOR UNIT.
3. LOW AMBIENT OPERATION WITH BAFFLE KIT.

ELECTRIC UNIT HEATER SCHEDULE									
PLAN MARK	CAPACITY, kW	VOLTS	PHASE	AMPS	FAN		MOUNTING	MANUFACTURER & MODEL NUMBER	NOTES
					CFM	HP			
EUH-1	5.0	208	1	24.7	700	1/30	CEILING	INDEECO UCI	1,2
EUH-2	5.0	208	1	24.7	700	1/30	CEILING	INDEECO UCI	1,2

NOTES:
1. FACTORY MOUNTED DISCONNECT
2. CONTROL WITH NEMA 4 WALL MOUNTED THERMOSTAT

PLUMBING FIXTURE SCHEDULE		
PLAN MARK	FIXTURE TYPE	FIXTURE DESCRIPTION
FD-1	FLOOR DRAIN	ZURN Z-550, 9" DIAMETER, DURO-COATED CAST IRON BODY, FLASHING COLLAR, CAST IRON BAR GRATE.
HB-1	HOSE BIBB	WOODFORD MODEL 26, 3/4 BACKFLOW PROTECTED HOSE BIBB, CAST BRASS, METAL WHEEL HANDLE OPERATOR, 3/4" NPT INLET.
WH-1	WALL HYDRANT	WOODFORD MODEL B67, AUTOMATIC DRAINAGE AND FREEZELESS WALL HYDRANT WITH BACK FLOW PROTECTION, FLUSH MOUNTED WALL BOX.
BFP-1	BACKFLOW PREVENTER	WATTS, LF009, REDUCED PRESSURE ZONE, BACKFLOW PREVENTER, 1-1/2" SIZE, 47 GPM @ 12 PSI PRESSURE DROP, 10 GPM @ 12 PSI PRESSURE DROP, QUARTER TURN BALL VALVES AT INLET AND OUTLET, STRAINER, AIR GAP FITTING WITH PIPING DOWN TO FLOOR. INSTALL 36" TO 60" AFF.

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BAR IS ONE INCH ON
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ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION



JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

M - MECHANICAL
HVAC AND PLUMBING PLAN & SCHEDULES

SHEET NO.
M.01

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
AF	AMPERE FRAME
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AICS	AMPERES INTERRUPTING CAPACITY, SYMMETRICAL
ASD	ADJUSTABLE SPEED DRIVE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY
CKT	CIRCUIT
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
DB	DIRECT BURIED
DC	DIRECT CURRENT
DWG	DRAWING
DM	DIGITAL METER
ELEV	ELEVATION
ENCL	ENCLOSURE
EP	EXPLOSION PROOF
ETM	ELAPSED TIME METER
EXIST	EXISTING
FLEX	FLEXIBLE
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
GND	GROUND
HH	HANDHOLE
HOA	HAND OFF AUTOMATIC
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	HERTZ
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LA	LIGHTNING ARRESTOR
LOS	LOCKOUT STOP PUSH-BUTTON
LS	LIMIT SWITCH
LTG	LIGHTING
MA	MILLIAMPERE
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MGB	MAIN GROUND BAR
MIN	MINIMUM
MT	EMPTY
MTD	MOUNTED
N	NEUTRAL
NC	NORMALLY CLOSED
NL	NIGHTLIGHT
NO	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
OL'S	MOTOR OVERLOAD CONTACTS
P	POLE
PB	PUSHBUTTON, PULLBOX
PFR	PHASE FAILURE RELAY
PH	PHASE
PS	PRESSURE SWITCH
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
REF	REFERENCE
REQ'D	REQUIRED
SH	SHIELDED
SHT	SHEET
SPD	SURGE PROTECTIVE DEVICE
STD	STANDARD
SW	SWITCH

TB	TERMINAL BOARD
TEL	TELEPHONE
TEMP	TEMPERATURE
TP	TWISTED PAIR
XFMR	TRANSFORMER
TSP	TWISTED SHIELDED PAIR
TST	TWISTED SHIELDED TRIAD
TSTAT	THERMOSTAT
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT
VFD	VARIABLE SPEED DRIVE
VS	VARIABLE SPEED
W	WATTS, WIRE
WP	WEATHERPROOF
ZS	POSITION SWITCH

ELECTRICAL SYMBOLS ONE-LINES

	UTILITY METERING
	METERING DEVICE: AM-AMMETER VM-VOLTMETER WM-WATTMETER FM-FREQUENCY METER WHM-KILOWATT HOUR METER DM-DIGITAL MULTI-FUNCTION METER
	CURRENT TRANSFORMER, QUANTITY INDICATED
	POTENTIAL TRANSFORMER, QUANTITY INDICATED
	CIRCUIT BREAKER, 3 POLE UNLESS NOTED MCP INDICATES MOTOR CIRCUIT PROTECTOR
	THERMAL OVERLOAD RELAY
	SWITCH
	MOTOR, 10 HP
	GENERATOR
	KEY INTERLOCKING OF EQUIPMENT
	POWER FACTOR CORRECTING CAPACITOR
	DRAW-OUT TYPE EQUIPMENT
	LIGHTNING ARRESTOR
	GROUND
	DELTA CONNECTION
	WYE CONNECTION
	MECHANICAL INTERLOCKING OF EQUIPMENT
	ELECTRICAL INTERLOCKING OF EQUIPMENT
	POWER MONITOR
	TRANSIENT VOLTAGE SURGE SUPPRESSOR

	MOTOR CONTROLLER
	TYPE/SIZE
	FEATURES

TYPE/SIZE

SUCCESSING NUMBER INDICATES NEMA STARTER SIZE

FVR = FULL VOLTAGE REVERSING
FVNR = FULL VOLTAGE NON-REVERSING
RVSS = REDUCED VOLTAGE SOFT STARTER
VFD = VARIABLE FREQUENCY DRIVE
2S2W = TWO-SPEED TWO-WINDING
2S1W = TWO SPEED ONE-WINDING

FEATURES

1 - CONTROL POWER TRANSFORMER, 120V SECONDARY
2R - 2: DENOTES INDICATING LIGHT

MODIFIER:
R - RED
G - GREEN
A - AMBER
W - WHITE

3A - 3: DENOTES CONTROL SWITCH
MODIFIER: A - HAND-OFF-AUTO
B - HAND-OFF-REMOTE
C - ON-OFF
D - FORWARD-OFF-REVERSE

4 - START-STOP PUSHBUTTONS, MOMENTARY
5 - ELAPSED TIME METER
6 - KEYPAD/DISPLAY ON DOOR
7 - OUTPUT dv/dt FILTER
8 - DISCONNECT SWITCH

EQUIPMENT FLOOR MOUNTING NOTE:

PROVIDE CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR-MOUNTED ELECTRICAL EQUIPMENT. REFER TO DETAIL 2/S.602.

SWITCHGEAR PROTECTIVE RELAYING

	SWITCHGEAR DEVICE:
13	SYNCHRONOUS-SPEED DEVICE
25	SYNCHRONIZING OR SYNCHRONISM CHECK DEVICE
27	UNDERVOLTAGE RELAY
32	DIRECTIONAL POWER RELAY
37	UNDERCURRENT OR UNDERPOWER RELAY
40	FIELD RELAY
41	FIELD CIRCUIT BREAKERS
43	MANUAL TRANSFER OR SELECTOR DEVICE
46	REVERSE-PHASE OR PHASE-BALANCE CURRENT RELAY

ELECTRICAL SYMBOLS SCHEMATICS

NORMALLY OPEN	NORMALLY CLOSED	DEVICE
		CONTACT
		TIMED CONTACT
		CONTACT ACTION RETARDED ON ENERGIZATION
		TIMED CONTACT
		CONTACT ACTION RETARDED ON DE-ENERGIZATION
		PUSH BUTTON SINGLE CIRCUIT MOMENTARY CONTACT
		PUSH BUTTON SINGLE CIRCUIT LOCK-OUT
		LIMIT SWITCH
		LIQUID LEVEL SWITCH
		PRESSURE OR VACUUM SWITCH
		FLOW SWITCH
		TEMPERATURE SWITCH
		SELECTOR SWITCH (NUMBER OF ARROWS INDICATES NUMBER OF POSITIONS. OXO INDICATES CONTACT OPERATION FOR EACH POSITION. X=CLOSED, O=OPEN)
		MANUAL MOTOR STARTER
		DOOR INTERLOCK SWITCH
		MOTOR OVERLOAD HEATER CONTACTS
		MOTOR OVERLOAD HEATER
		PILOT LIGHT R=RED, W=WHITE G=GREEN, A=AMBER
		PILOT LIGHT - PUSH-TO-TEST R=RED, W=WHITE G=GREEN, A=AMBER
		RELAY
		TIME DELAY RELAY
		STARTER COIL
		SOLENOID OPERATED VALVE
		120V, SINGLE PHASE MOTOR
		ALARM
		ELAPSED TIME METER
		PHASE MONITORING RELAY
		FUSE
		CONTROL POWER TRANSFORMER
		GROUND
		WIRING IN MOTOR STARTER
		FIELD WIRING
		WIRE TERMINAL

ELECTRICAL SYMBOLS PLANS

LIGHT FIXTURES

	CEILING MOUNTED FIXTURE, INCANDESCENT, HID, ETC. AS SPECIFIED.
	WALL MOUNTED FIXTURE, INCANDESCENT, HID, ETC. AS SPECIFIED.
	FLUORESCENT FIXTURE, AS SPECIFIED
	FLUORESCENT FIXTURE AS SPECIFIED, CONNECTED TO UNSWITCHED CIRCUIT.
	FLUORESCENT STRIP FIXTURE
	EXIT LIGHT, CEILING MOUNTED, ARROW DIRECTION AS INDICATED, SHADED SECTION INDICATES ILLUMINATION FACE.
	EXIT LIGHT, WALL MOUNTED, ARROW DIRECTION AS INDICATED, SHADED SECTION INDICATES ILLUMINATION FACE.
	BATTERY OPERATED EMERGENCY LIGHT FIXTURE TOP OF UNIT 6" BELOW FINISHED CEILING OR AS NOTED.
	REMOTE LIGHT FIXTURE FOR BATTERY OPERATED LIGHT FIXTURE

FIRE ALARM SYSTEM

	MANUAL PULL STATION, 48" ABOVE FLOOR
	VISUAL ALARM LIGHT 80" ABOVE FLOOR OR AS NOTED '110' - INDICATES 110CD VISUAL DEVICE '30' - INDICATES 30CD VISUAL DEVICE BLANK - INDICATES 75CD DEVICE
	AUDIBLE ALARM DEVICE WITH VISUAL ALARM LIGHT 80" ABOVE FLOOR OR AS NOTED '110' - INDICATES 110CD VISUAL DEVICE '30' - INDICATES 30CD VISUAL DEVICE '15' - INDICATES 15CD VISUAL DEVICE BLANK - INDICATES 75CD DEVICE
	COMBINATION AUDIBLE ALARM DEVICE AND VISUAL ALARM LIGHT 80" ABOVE FLOOR, AND MANUAL PULL STATION 48" ABOVE FLOOR '110' - INDICATES 110CD VISUAL DEVICE '30' - INDICATES 30CD VISUAL DEVICE BLANK - INDICATES 75CD DEVICE
	GENERAL ALARM BELL 80" ABOVE FLOOR OR AS NOTED
	VISUAL ALARM LIGHT 80" ABOVE FLOOR, AND MANUAL PULL STATION 48" ABOVE FLOOR.
	THERMAL FIRE DETECTOR, COMBINATION RATE OF RISE AND FIXED TEMPERATURE. '200' - INDICATES 200 DEGREE FIXED TEMPERATURE. '135' - INDICATES 135 DEGREE FIXED TEMPERATURE. 'ST' - INDICATES DETECTOR TO INITIATE ELEVATOR C.B. SHUNT-TRIP.
	AUTOMATIC DOOR RELEASE CONNECTION
	SMOKE DAMPER CONNECTION
	SMOKE DETECTOR ON CEILING; 'D'-INDICATES DUCT DETECTOR TYPE 'R'-INDICATES RELAY FOR AUXILIARY CONTROLS. 'GR' INDICATES DETECTOR TO INITIATE ELEVATOR RECALL
	'PT' INDICATES PROJECTED BEAM TYPE TRANSMITTER. 'PR' INDICATES PROJECTED BEAM TYPE RECEIVER.
	FAN SHUT-DOWN CONNECTION
	REMOTE DETECTOR INDICATOR LIGHT
	DUCT SMOKE DETECTOR REMOTE TEST/RESET STATION
	SPRINKLER FLOW SWITCH CONNECTION
	TAMPER-PROOF SPRINKLER VALVE SWITCH CONNECTION.
	FIRE ALARM ZONE ANNUNCIATOR
	FIRE ALARM MASTER ANNUNCIATOR
	FIRE ALARM CONTROL PANEL
	TELEPHONE STATION

SITE

	LIGHTING CONTROL STATION, PAD MOUNTED
	LIGHTING CONTROL STATION, POLE MOUNTED
	HAND HOLE
	JUNCTION BOX
	UTILITY TRANSFORMER, PAD MOUNTED
	UTILITY TRANSFORMER, POLE MOUNTED
	PHOTOCELL
	ELECTRIC MANHOLE
	UNDERGROUND CONDUIT
	POLE MOUNTED LIGHTING UNIT, AS SPECIFIED
	BACK MOUNTED LIGHTING UNIT, AS SPECIFIED
	TOWER LIGHTING UNIT, AS SPECIFIED
	GROUND MOUNTED YARD LIGHTING UNIT, AS SPECIFIED

CONDUIT, RACEWAY AND WIRING

	UNDERGROUND CONDUIT
	CONDUIT CONCEALED IN WALL OR CEILING CONSTRUCTION
	'MT' INDICATES EMPTY CONDUIT
	HOME RUN TO PANELBOARD
	CABLE TRAY, SIZE AS NOTED
	PLUG IN STRIP-TYPE RECEPTACLES OR OTHER OUTLETS AS INDICATED
	LAY IN WIREWAY DUCT, SIZE AS NOTED
	FEEDER DUCT-RATING AND NUMBER OF CONDUCTORS AS NOTED
	PLUG IN DUCT-RATING AND NUMBER OF CONDUCTORS AS NOTED
	CENTER RAIL TYPE CABLE TRAY, AS NOTED
	LADDER TYPE CABLE TRAY, AS NOTED
	UNDERFLOOR DUCT-ELECTRICAL
	UNDERFLOOR DUCT-TELEPHONE OR OTHER LOW TENSION AS NOTED
	J-HOOKS ABOVE CEILING

COMMUNICATIONS SYSTEM

	SPEAKER OUTLET RECESSED IN CEILING (UNLESS NOTED OTHERWISE). 'S'-INDICATES SURFACE TYPE, 'C'-INDICATES SPEAKER CONCEALED ABOVE CEILING, 'P'-INDICATES PROJ. HORN TYPE, 'DF'-INDICATES DOUBLE FACE TYPE
	MICROPHONE OUTLET IN CEILING
	MICROPHONE OUTLET IN WALL
	CLOCK OUTLET IN CEILING WITH PROGRAM OR OTHER SYSTEM CLOCK AS SPECIFIED 'DF' INDICATES DOUBLE FACE CLOCK, DIMENSION INDICATES DIAL SIZE
	CLOCK OUTLET IN WALL WITH PROGRAM OR OTHER SYSTEM CLOCK AS SPECIFIED 'DF' INDICATES DOUBLE FACE CLOCK, DIMENSION INDICATES DIAL SIZE, 84" ABOVE FLOOR OR AS NOTED
	COMBINATION CLOCK AND SPEAKER OUTLETS IN COMMON BACK BOX-WITH CLOCK AND SPEAKER AS SPECIFIED, 84" ABOVE FLOOR OR AS NOTED
	VIDEO SYSTEM OUTLET, IN WALL AT 84" ABOVE FLOOR OR AS NOTED
	VIDEO SYSTEM OUTLET, IN CEILING
	TELEVISION CAMERA OR VIDEO TAPE JACK
	INTERCOM MASTER-DESK MOUNTED
	INTERCOM MASTER, WALL MOUNTED 54" ABOVE FLOOR OR AS NOTED
	INTERCOM REMOTE UNIT-DESK MOUNTED
	INTERCOM REMOTE UNIT, WALL MOUNTED 54" ABOVE FLOOR OR AS NOTED
	TELEPHONE OUTLET, IN WALL 16" ABOVE FLOOR OR AS NOTED, 'W' INDICATES WALL MOUNTED TELEPHONE AT 54"
	COMPUTER TERMINAL OUTLET-IN WALL OR AS NOTED
	COMBINATION TELEPHONE & COMPUTER TERMINAL OUTLET IN WALL 16" ABOVE FLOOR OR AS NOTED.
	TELEPHONE OUTLET, IN FLOOR BOX
	VOLUME CONTROL, NUMERAL DESIGNATES ASSOCIATED SPEAKERS

NOTE:

NOT ALL ABBREVIATIONS OR SYMBOLS SHOWN IN THESE LISTS MAY BE USED IN THIS PROJECT. CONTACT ARCHITECT OR ENGINEER FOR CLARIFICATION OF ANY DISCREPANCIES.

WIRING DEVICE

	CLOCK HANGER RECEPTACLE-20A, 125V, 2P, 3W (NEMA 5-20R), IN WALL +84" OR AS NOTED
	SIMPLEX RECEPTACLE - 125V, 2P, 3W 20A, 30A, OR 50A AT OUTLET INDICATES AMP. RATING (NEMA 5-20R, 5-30R, OR 5-50R), IN WALL OR AS NOTED
	DUPLEX RECEPTACLE-20A, 125V, 2P, 3W (NEMA 5-20R), IN WALL
	DUPLEX RECEPTACLE-20A, 125V, 2P, 3W (NEMA 5-20R), IN CEILING
	DUPLEX RECEPTACLE-20R, 125V, 2P, 3W (NEMA 5-20R), IN WALL ABOVE COUNTER TOP OR BACK SPLASH
	'GFI'-INDICATES GROUND FAULT INTERRUPTER TYPE
	'SS'-INDICATES SURGE SUPPRESSOR TYPE
	'IG'-INDICATES ISOLATED GROUND TYPE
	DUPLEX RECEPTACLE-20R, 125V, 2P, 3W (NEMA 5-20R), IN WALL OR AS NOTED, ONE RECEPTACLE HOT, ON RECEPTACLE SWITCH
	FLOOR OUTLET BOX WITH SIMPLEX RECEPTACLE-20A, 125V, 2P, 3W (NEMA 5-20R)
	FLOOR OUTLET WITH DUPLEX RECEPTACLE
	OUTLET WITH SPECIAL DEVICE AS NOTED, IN WALL
	OUTLET WITH SPECIAL DEVICE AS NOTED, IN FLOOR
	OUTLET WITH SPECIAL DEVICE AS NOTED, IN CEILING
	JUNCTION BOX OR OUTLET BOX
	SINGLE POLE WALL SWITCH, '2'-INDICATES 2 POLE SWITCH, '3'-INDICATES 3-WAY, '4'-INDICATES 4-WAY, 'PL'-INDICATES SWITCH WITH PILOT LIGHT, 'LT'-INDICATES LOCKING TYPE SWITCH, 'LV'-INDICATES LOW VOLTAGE TYPE, T-INDICATES TIMER SWITCH.
	PULL BOX
	PUSHBUTTON, AS NOTED
	LOCAL LIGHT DIMMER, 'M' INDICATES MASTER CONTROLLER
	'F' INDICATES FLUORESCENT
	'1000' INDICATES 1000 WATTS
	'1500' INDICATES 1500 WATTS
	'2000' INDICATES 2000 WATTS

MISCELLANEOUS

	SOLENOID
	THERMOSTAT 48" ABOVE FLOOR.
	FLOAT SWITCH
	PRESSURE SWITCH
	PHOTOCCELL CONTROL
	ELECTRIC HAND DRYER AS NOTED.
	FLOOR BOX
	REFERENCED NOTE
	PAGING ZONE
	TIME SWITCH
	TELECOMMUNICATIONS MAIN GROUND BAR AT 80" OR AS NOTED.
	TELECOMMUNICATIONS GROUND BAR, 'XX' INDICATES GROUND BAR NUMBER.
	OCCUPANCY SENSOR, CEILING MOUNTED
	OCCUPANCY SENSOR, WALL MOUNTED, 48" ABOVE FLOOR

SECURITY SYSTEM

	KEYPAD ACCESS CONTROL
	CARD ACCESS READER - PROXIMITY
	COMBINATION KEYPAD ACCESS CONTROL & CARD ACCESS READER
	SECURE DOOR. ELECTRIC LOCKING DEVICE, REQUEST TO EXIT CONTACT & DOOR POSITION CONTACT UNLESS NOTED OTHERWISE
	SECURE WINDOW. ELECTRICAL STRIKE & CONTACTS AS SCHEDULED.
	CLOSE CIRCUIT TELEVISION CAMERA FIXED MOUNTED.
	CLOSED CIRCUIT TELEVISION CAMERA REMOTE PAN, TILT & ZOOM CONTROL
	SECURITY MOTION SENSOR, AS INDICATED

EQUIPMENT

	MOTOR CONNECTION
	EQUIPMENT TERMINAL POINT
	SAFETY DISCONNECT SWITCH, NON-FUSED UNLESS NOTED (F)
	FUSE HOLDER WITH FUSESTAT AND TOGGLE SWITCH
	MOTOR STARTER-MAGNETIC UNLESS NOTED MAN. (MANUAL)
	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH-MAGNETIC STARTER
	BRANCH CIRCUIT PANELBOARD SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD FLUSH MOUNTED
	SPECIAL CABINET OR EQUIPMENT AS NOTED SURFACE MOUNTED
	SPECIAL CABINET OR EQUIPMENT AS NOTED FLUSH MOUNTED
	DRY-TYPE TRANSFORMER, NUMBER INDICATES KVA SIZE
	POWER DISTRIBUTION PANELBOARD SURFACE MOUNTED OR FREESTANDING, AS NOTED.
	POWER DISTRIBUTION PANELBOARD, FLUSH MOUNTED
	ELECTRICAL EQUIPMENT MCC OR SWITCHBOARD, AS NOTED
	AUTOMATIC TRANSFER SWITCH
	MANUAL TRANSFER SWITCH

NOTES

- ALL WALL RECEPTACLES, TELEPHONE OUTLETS OR SIMILAR OUTLETS TO BE 16" ABOVE FLOOR TO BOTTOM UNLESS OTHERWISE INDICATED
- ALL WALL SWITCHES, PUSHBUTTONS AND DIMMERS TO BE 48" ABOVE FLOOR TO BOTTOM UNLESS OTHERWISE INDICATED
- UPPER CASE LETTERS 'DD' AT DUPLEX RECEPTACLE INDICATE DOUBLE DUPLEX RECEPTABLES IN TWO GANG BOX
- LETTERS 'WP' AT DEVICE OR EQUIPMENT INDICATE WEATHERPROOF TYPE
- LETTERS 'XP' AT DEVICE OR EQUIPMENT INDICATES EXPLOSION-PROOF TYPE.
- LETTERS 'TL' AT RECEPTACLE INDICATE TWIST-LOCK TYPE.
- LETTERS 'WG' AT DEVICE OR LIGHT FIXTURE INDICATE A WIREGUARD IS TO BE PROVIDED.
- LETTERS 'RI' AT DEVICE OR EQUIPMENT CONNECTION INDICATE ROUGH-IN ONLY.
- LOWER CASE LETTERS AT SWITCHES AND FIXTURES INDICATE ASSOCIATED UNITS FOR SWITCHING
- UPPER CASE LETTERS AT FIXTURE INDICATE FIXTURE TYPE.
- NUMBER AT FIXTURE OR OUTLET INDICATES PANEL CIRCUIT NUMBER.
- PLUS (+) SIGN WITH DIMENSION AT OUTLET INDICATES HEIGHT ABOVE FINISHED FLOOR LINE OR HEIGHT ABOVE FINISHED GRADE.
- LETTERS 'IG' AT RECEPTACLE INDICATE ISOLATED GROUND TYPE.
- LETTERS 'SS' AT RECEPTACLE INDICATE SURGE SUPPRESSION TYPE.
- PROVIDE CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR-MOUNTED ELECTRICAL EQUIPMENT. REFER TO DETAIL 2/S.602.
- CONNECT EXIT LIGHTS, EMERGENCY BATTERY PACKS, AND EMERGENCY BATTERY UNIT FIXTURES TO NEAREST UNSWITCHED NORMAL LIGHTING CIRCUIT SERVING CORRESPONDING AREA, UNLESS OTHERWISE INDICATED. CONNECT BATTERY PACKS SO THAT ASSOCIATED LUMINAIRES ARE CONTROLLED WITH OTHER LUMINAIRES IN THE SAME SPACE, AND ARE ENERGIZED UPON POWER FAILURE.

17. "NL" DESIGNATES NIGHTLIGHT OPERATION. CONNECT FIXTURE UNSWITCHED TO CIRCUIT INDICATED.
- EM = EMERGENCY SYSTEM
C = CRITICAL SYSTEM
L = LIFE SAFETY SYSTEM
S = LIFE SUPPORT SYSTEM
E = EMERGENCY EQUIPMENT SYSTEM
FA = FIRE ALARM
TA = TELEPHONE SYSTEM-TA,TB,TC,ETC. INDICATES TO TERMINAL CABINET OR MOUNTING BOARD TA,TB,TC, ETC.

- GF = CIRCUIT TO GROUND FAULT CIRCUIT BREAKER.
EIL = EQUIPMENT INTERLOCK.
MT = EMPTY CONDUIT

DRAWN BY: JLH JOB DATE: 2021
APPROVED: CJH JOB NUMBER: 190261
CAD DATE: 6/4/2021 2:13:43 PM
CAD FILE: J:\2019\190261\CAD\Drawgs\BP2\E\E.00 SYMBOLS, NOTES & ABBREVIATIONS

BAR IS ONE INCH ON OFFICIAL DRAWINGS.
0 1"
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION



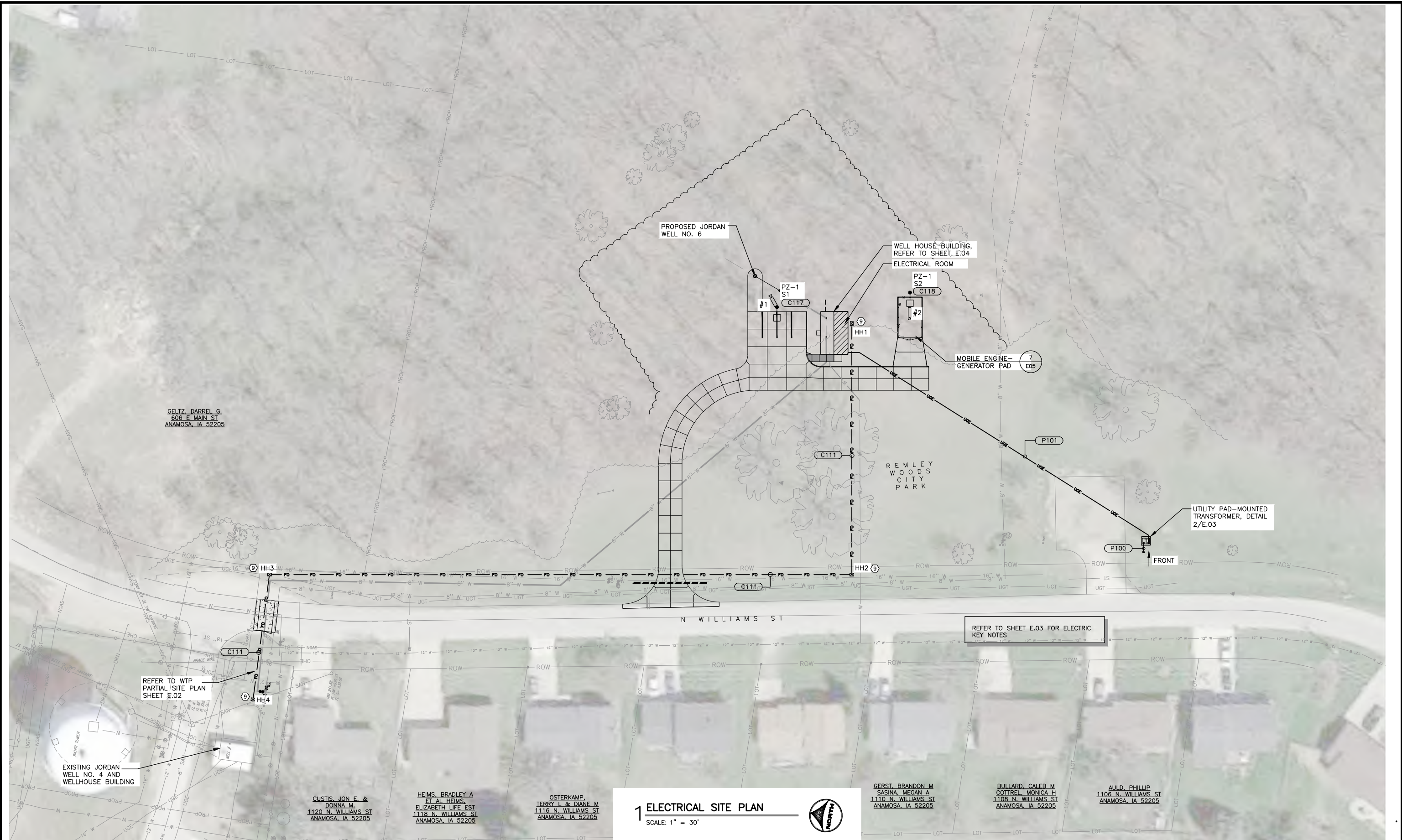
HRGreen.com

JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

E - ELECTRICAL

SYMBOLS NOTES & ABBREVIATIONS

Xrefs: cxc-0-ASRNL; xgt-1-gh01; cxc-0-base-WTP; cxc-0-base; cxc-0-limits; xc-1-align; xc-0-dsgn; cxc-0-cont-01S; xc-0-dsgn



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APPROVED: CJH JOB NUMBER: 190261
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CAD FILE: J:\2019\190261\CAD\Draws\BP2\E\01 ELECTRICAL SITE PLAN.dwg

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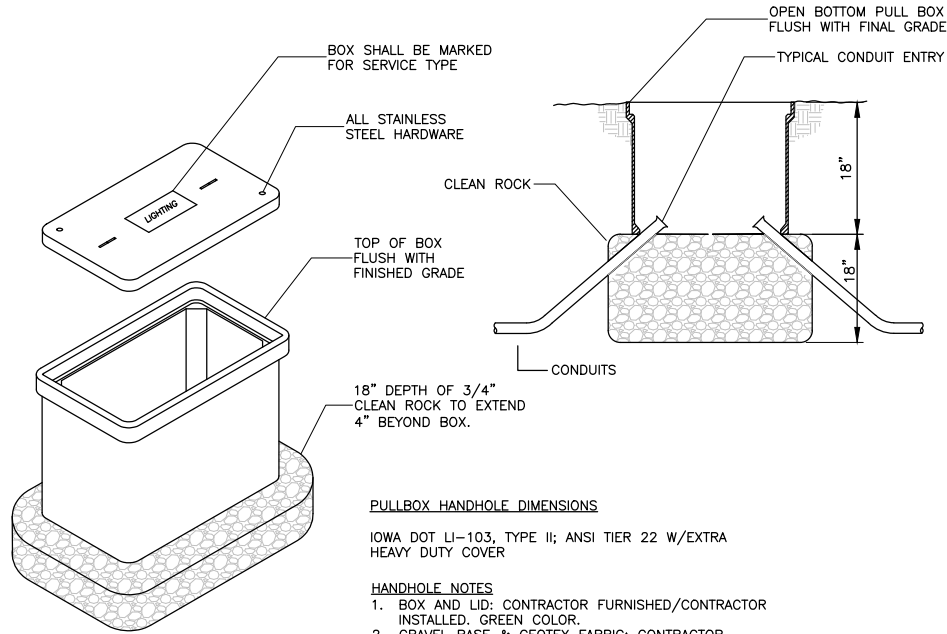
NO.	DATE	BY	REVISION DESCRIPTION



JORDAN WELL NO. 6
BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
ANAMOSA, IOWA

E - ELECTRICAL
ELECTRICAL SITE PLAN

SHEET NO.
E.01



PULLBOX HANDHOLE DIMENSIONS

IOWA DOT U-103, TYPE II; ANSI TIER 22 W/EXTRA HEAVY DUTY COVER

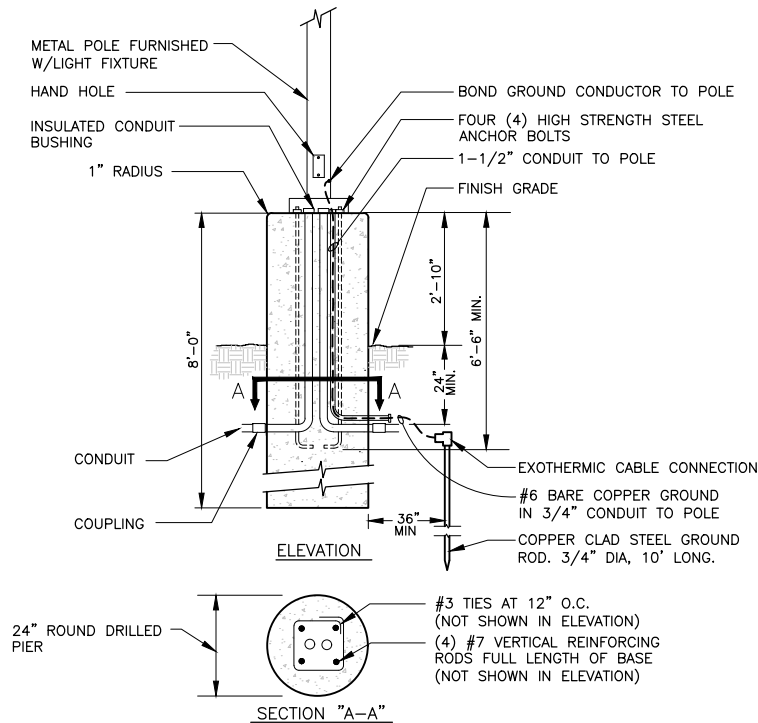
HANDHOLE NOTES

- BOX AND LID: CONTRACTOR FURNISHED/CONTRACTOR INSTALLED. GREEN COLOR.
- GRAVEL BASE & GEOTEX FABRIC: CONTRACTOR FURNISHED/CONTRACTOR INSTALLED

HANDHOLE SCHEDULE			
TAG	SERVICE	SIZE	LOCATION
HH1	FIBER OPTIC	30X17X24	WELL #6
HH2	FIBER OPTIC	30X17X24	WELL #6
HH3	FIBER OPTIC	30X17X24	WELL #6
HH4	FIBER OPTIC	30X17X24	WTP
HH5	FIBER OPTIC	30X17X24	WTP
HH6	FIBER OPTIC	30X17X24	WTP

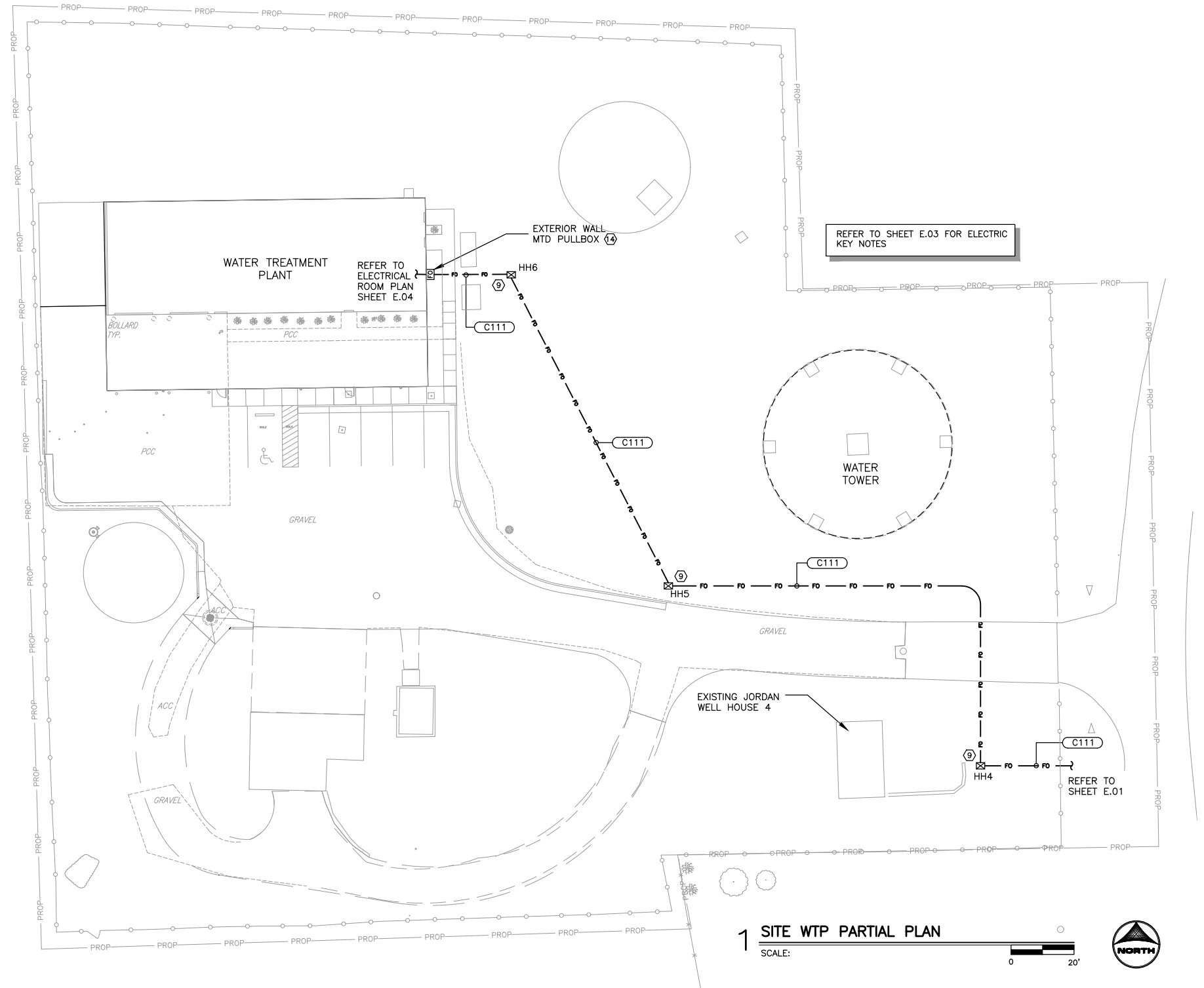
2 HANDHOLE DETAIL

SCALE: NONE



3 ELEVATED BASE DETAIL - TYPE S1 & S2

SCALE: NONE



1 SITE WTP PARTIAL PLAN

SCALE:

DRAWN BY: JLH JOB DATE: 2021
 APPROVED: CJH JOB NUMBER: 190261
 CAD DATE: 6/4/2021 2:13:41 PM
 CAD FILE: J:\2019\190261\CAD\Draws\BP2\E\E.02 PARTIAL SITE PLAN.dwg

BAR IS ONE INCH ON
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 0" = 1"
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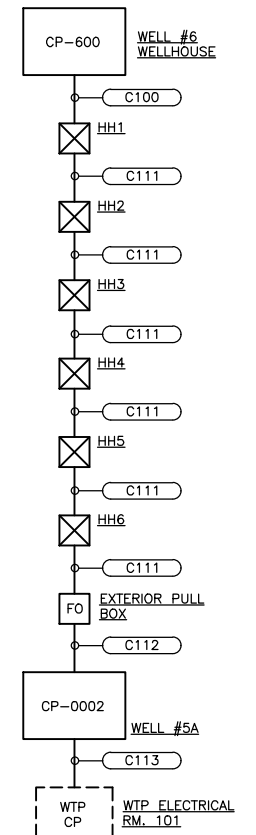
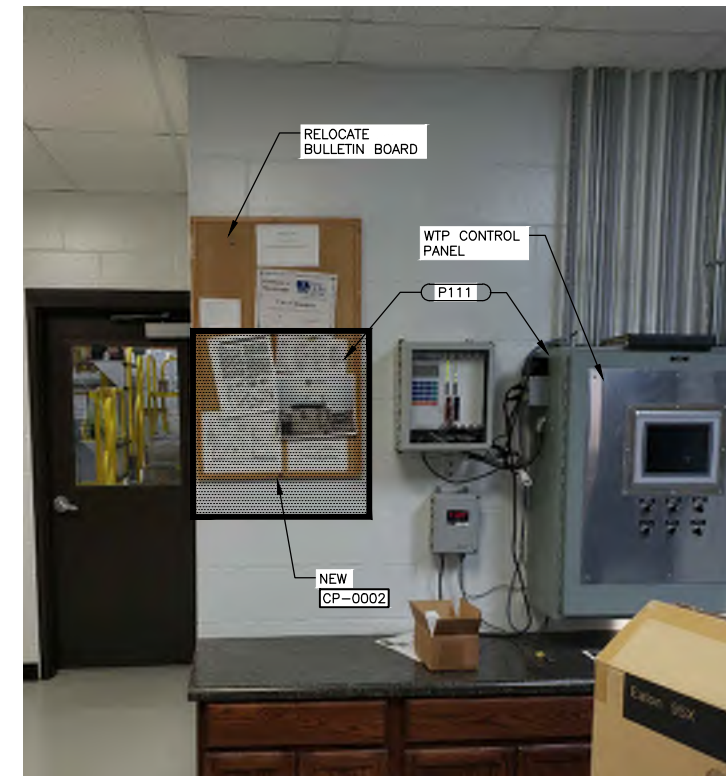
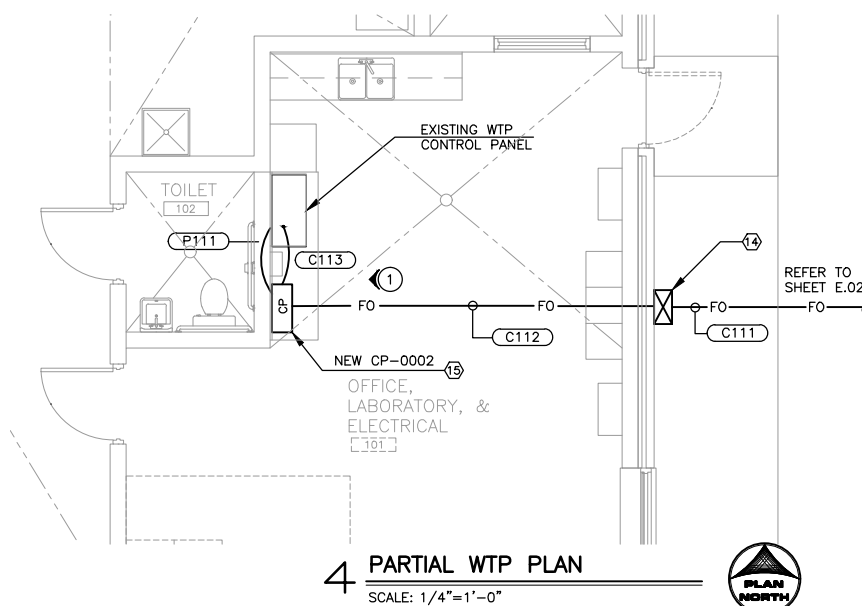
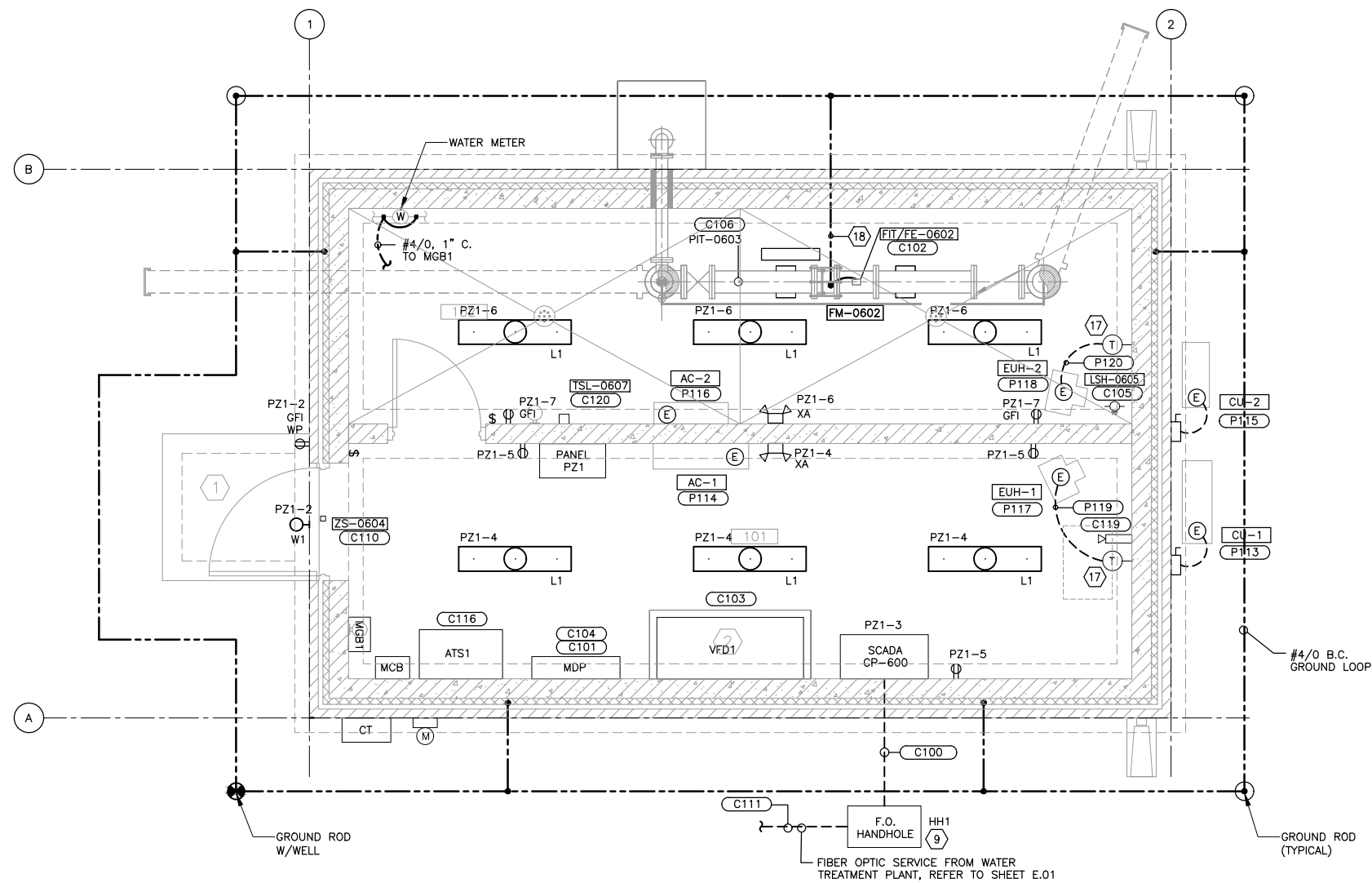
NO.	DATE	BY	REVISION DESCRIPTION



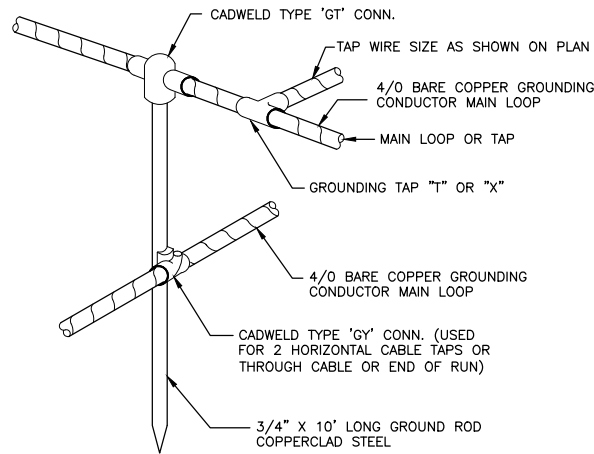
JORDAN WELL NO. 6
 BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE
 ANAMOSA, IOWA

E - ELECTRICAL
 PARTIAL SITE PLAN

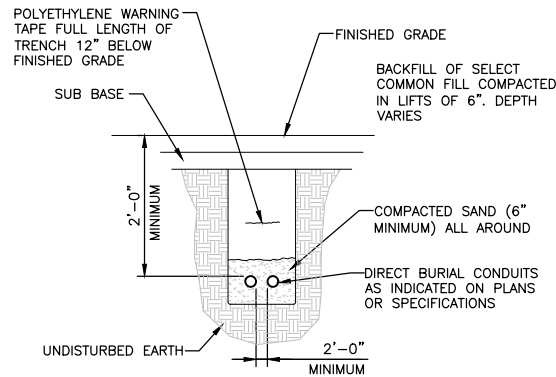
SHEET NO.
 E.02



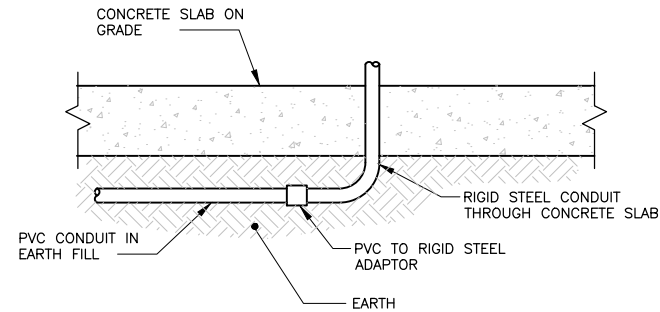
REFER TO SHEET E.03 FOR ELECTRIC
KEY NOTES



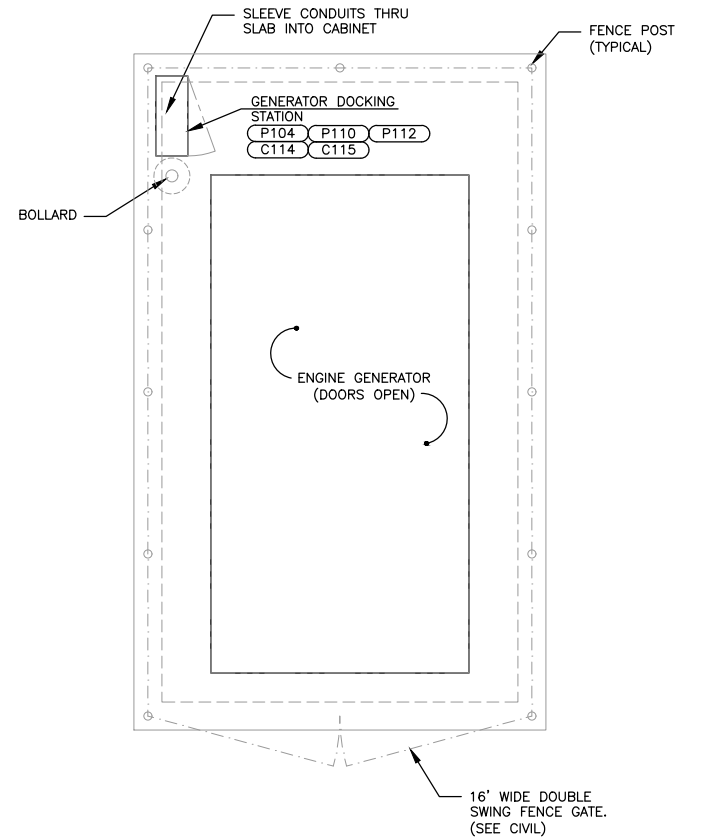
1 CONDUCTOR TO GROUND ROD CONNECTION DETAIL
SCALE: NONE



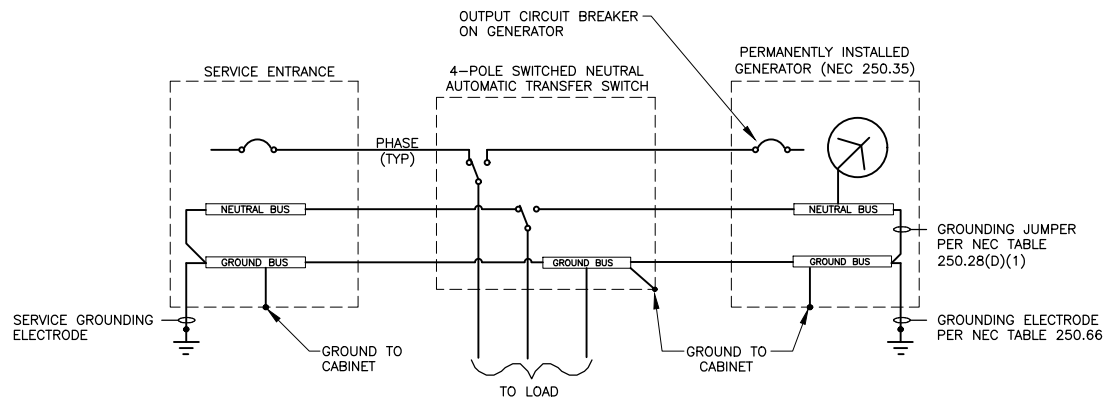
2 DIRECT BURIED CONDUIT DETAIL
SCALE: NONE



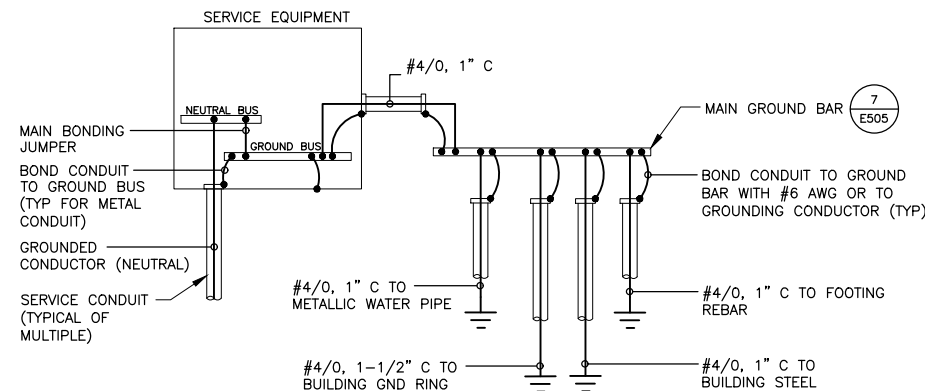
3 UNDER-SLAB CONDUIT DETAIL
SCALE: NONE



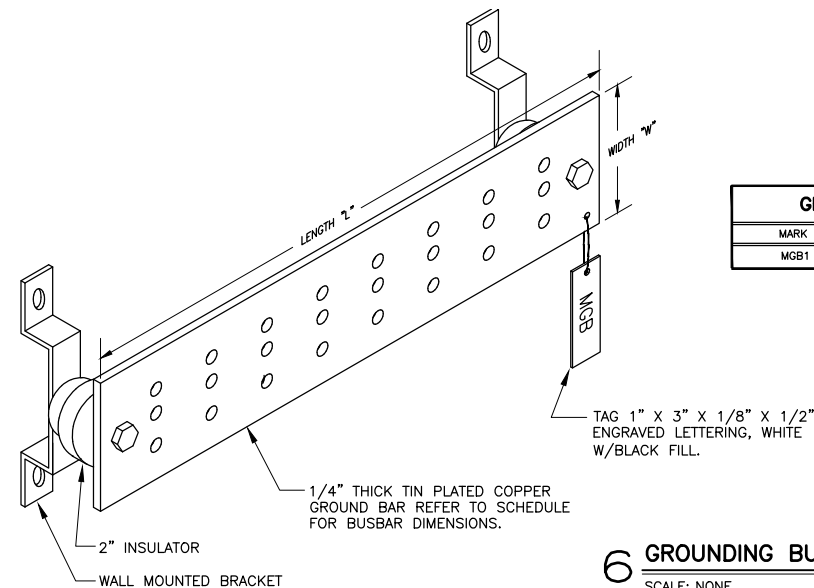
4 GENERATOR PAD PLAN
SCALE: NONE



5 GENERATOR GROUNDING WITH 4-POLE ATS
SCALE: NONE



6 SERVICE ENTRANCE GROUND DETAIL
SCALE: NONE



7 GROUNDING BUSBAR DETAIL
SCALE: NONE

GROUNDING BUSBAR SCHEDULE		
MARK	NOMINAL SIZE	ERITECH CAT #
MGB1	1/4" x 4" x 20"	EGBA14420CCT

SITE LIGHTING FIXTURE SCHEDULE													
LUMINAIRE										POLE			
PLAN MARK	DESCRIPTION	PHOTOMETRIC PERFORMANCE	MANUFACTURER & MODEL NO.	VOLTAGE	LAMP	MOUNTING	FINISH	MTG. HEIGHT	REMARKS	MANUFACTURER & MODEL NO.	FINISH	HEIGHT	REMARKS
S1	AREA LIGHT	TYPE 3M, 70W, 8901 L, 40K	LITHONIA DSX0 P3 40K TFTM 120 SPA BS DBLXD PIRHFC3V	120	LED	POLE	BLACK	25	BIRD SPIKES, HIGH/LOW MOTION SENSOR	LITHONIA RSA 25 5G DM19 VD DBLXD	BLACK	25	HANDHOLE, ANCHOR BOLTS, CONCRETE ANCHOR BASE, NOTE 1
S2	AREA LIGHT	TYPE 3M, 70W, 8901 L, 40K	LITHONIA DSX0 P3 40K TFTM 120 SPA BS DBLXD PIRHFC3V	120	LED	POLE	BLACK	25	BIRD SPIKES, HIGH/LOW MOTION SENSOR	LITHONIA RSA 25 5G DM19 VD DBLXD	BLACK	25	HANDHOLE, ANCHOR BOLTS, CONCRETE ANCHOR BASE, NOTE 2
NOTES													
1. TYPE S1 POLE SHALL INCLUDE SECOND HANDHOLE AND BUSHED CABLE OPENING FOR CCTV CAMERA. CAMERA MOUNT ON OPPOSITE SIDE OF LUMINAIRE HEAD. CAMERA MOUNTING BOX PROVIDED WITH CAMERA. ELECTRICAL CONTRACTOR TO FIELD INSTALL.													
2. TYPE S2 POLE SHALL INCLUDE SECOND HANDHOLE AND BUSHED CABLE OPENING FOR CCTV CAMERA. CAMERA MOUNT ON SAME SIDE OF LUMINAIRE HEAD. CAMERA MOUNTING BOX PROVIDED WITH CAMERA. ELECTRICAL CONTRACTOR TO FIELD INSTALL.													

INTERIOR LIGHTING FIXTURE SCHEDULE						
LEGEND						
G-GRID	P-PLASTER	B-BASE				
S-SURFACE	M-METAL PAN	C-COVE				
W-WALL	SP-SUSPENDED					
TYPE	LAMPS	MANUFACTURER & CATALOG NUMBER	MTG	VOLT	REMARKS	APPROVED MANUFACTURERS
W1	12W, 1639L, 35K LED	LITHONIA WST LED P1 40K VF MVOLT PE E7WC DDBXD	W	120	SMALL EXTERIOR W/ CW BATTERY BACKUP	MCGRRAW-EDISON
L1	30W, 4000L, 35K LED	METALUX 4VT2-LD5-4-DR-UNV-L835-CD1-WL-U-VT2-CHAIN/SET-SSL-U	SP	120	1' X 4' ENCLOSED INDUSTRIAL LED	WILLIAMS
XA	3.3 W 640L	LITHONIA EXTL-SP640L-UVOLT-LP	W	120	EGRESS	SURE-LITES

CABLE & RACEWAY SCHEDULE						
CKT. #	FROM	TO	CONDUCTORS	GND	CONDUIT	REMARKS
P100	UTILITY SOURCE	UTILITY TRANSFORMER	BY UTILITY	-	(2)- 4"	CONDUIT STUB-OUTS FROM PAD
P101	UTILITY TRANSFORMER	CT CABINET	BY UTILITY	-	(2)- 3"	
P102	CT CABINET	SE MAIN CIRCUIT BREAKER	2- SETS OF (4)- 350 KCMIL	(2)- #1	(2)- 3"	
P103	SE MAIN CIRCUIT BREAKER	ATS1	2- SETS OF (4)- 350 KCMIL	(2)- #1	(2)- 3"	
P104	ATS1	ENGINE-GENERATOR DOCKING STATON	2- SETS OF (4)- 350 KCMIL	(2)- #1	(2)- 3"	
P105	ATS1	PANEL MDP	2- SETS OF (4)- 350 KCMIL	(2)- #1	(2)- 3"	
P106	PANEL MDP	VARIABLE FREQUENCY DRIVE #1 (VFD1)	(3)- 600 KCMIL	#2	3.5"	
P107	VFD1	WELL HEAD JUNCTION BOX #1	(3)- 600 KCMIL	#2	3.5"	
P108	WELL #6 PUMP MOTOR	WELL HEAD JUNCTION BOX #1	BY PUMP SUPPLIER	-	-	POWER & RTD CABLES
P109	PANEL MDP	PANEL PZ1	(3)- #3	#8	1.25"	
P110	PANEL PZ1	ENGINE-GENERATOR DOCKING STATON	(3)- #8	#8	1"	GEN-SET SUPPORT POWER
P111	EXISTING WTP CONTROL PANEL	CP-0002 (EXISTING WTP)	(2)- #12	#12	3/4"	UPS POWER CONNECTION
P112	PANEL PZ1	ENGINE-GENERATOR DOCKING STATON	(2)- #10	#10	1"	GFCI SERVICE RECEPTACLE
P113	PANEL PZ1	CU-1	(2)- #12	#12	3/4"	
P114	CU-1	AC-1	(5)- #12	#12	3/4"	AC-1 POWERERED FROM CU-1
P115	PANEL PZ1	CU-2	(2)- #12	#12	3/4"	
P116	CU-2	AC-2	(5)- #12	#12	3/4"	AC-2 POWERERED FROM CU-2
P117	PANEL PZ1	EUH-1	(2)- #10	#10	3/4"	
P118	PANEL PZ1	EUH-2	(2)- #10	#10	3/4"	
P119	UH-1	THERMOSTAT UH-1	(3)- #14	#14	3/4"	
P120	UH-2	THERMOSTAT UH-2	(3)- #14	#14	3/4"	
C100	CP-600 CONTROL PANEL	FIBER OPTIC IN-GROUND HANDHOLE	(1)- 12-STRAND F.O. CABLE	-	2"	3-CELL MAXCELL W/ TRACER WIRE
C101	PHASE FAIL RELAY IN PANEL MDP	CP-600 CONTROL PANEL	(2)- #14	#14	3/4"	
C102	FIT/FE-0602 FLOW METER	CP-600 CONTROL PANEL	(2)- TSP1	#14	3/4"	FLOW AND TOTAL PULSE
C103	VFD1 - WELL 7 VFD	CP-600 CONTROL PANEL	(1)- DSC2	#14	3/4"	
C104	MULTI-FUNCTION METER IN PANEL MDP	CP-600 CONTROL PANEL	(2)- DSC2	#14	3/4"	
C105	LSH- 0605 FLOOD SWITCH	CP-600 CONTROL PANEL	(2)- #14	#14	3/4"	
C106	PIT-0603 PRESSURE TRANSMITTER	CP-600 CONTROL PANEL	(1)- TSP1	#14	3/4"	
C107	LT-0601 WELL TRANSDUCER	WELL HEAD JUNCTION #2	FURNISHED WITH WELL TRANSDUCER	-	-	WELL TRANSDUCER CABLE
C108	WELL HEAD JUNCTION BOX #2	VDF1	(5)- TSP2	#10	2"	WELL MOTOR RTD'S
C109	WELL HEAD JUNCTION BOX #2	CP-600 CONTROL PANEL	(1)- TSP1	#10	1"	WELL TRANSDUCER SIGNAL
C110	ZS-0604 DOOR SWITCH	CP-600 CONTROL PANEL	(2)- #14	#14	3/4"	DOOR SWITCH
C111	CP-600 CONTROL PANEL	EXISTING WATER TREATMENT PLANT	(1)- 12-STRAND F.O. CABLE	-	2" - NOTE 1	3-CELL MAXCELL W/ TRACER WIRE
C112	EXTERIOR FIBER OPTIC PULL BOX	WTP CP-0002	(1)- 12-STRAND F.O. CABLE	-	2" - NOTE 2	
C113	WTP CP-0002	EXISTING WTP CONTROL PANEL	CAT 6 PATCH CABLE	-	3/4"	
C114	ATS1	ENGINE-GENERATOR DOCKING STATION	(6)- #12	#12	1"	AUTO START SIGNAL (4-SPARE)
C115	ENGINE-GENERATOR DOCKNG STATION	CP-600 CONTROL PANEL	(6)- #12	#12	1"	COMMON ALARM SIGNAL (4-SPARE)
C116	ATS1	CP-600 CONTROL PANEL	(10)- #14	#14	3/4"	
C117	SITE LIGHT POLE LIGHT S1 CAMERA	CP-600 CONTROL PANEL	(1)- DSC3	-	1"	CCTV CAMERA
C118	SITE LIGHT POLE LIGHT S2 CAMERA	CP-600 CONTROL PANEL	(1)- DSC3	-	1"	CCTV CAMERA
C119	ELECTRIC ROOM CAMERA	CP-600 CONTROL PANEL	(1)- DSC1	-	3/4"	CCTV CAMERA
C120	TSL-0607 TEMPERATURE TRANSMITTER	CP-600 CONTROL PANEL	(2)- #14	#14	3/4"	
NOTES						
1. 2-INCH HDPE CONTINUOUS CONDUIT WITH 3-CELL MAXCELL W/ TRACER WIRE.						
2. 2-INCH GALVANIZED RIGID STEEL CONDUIT ROUTED ABOVE ACCESSIBLE CEILING.						

DRAWN BY: JLH

JOB DATE: 2021

APPROVED: CJH

JOB NUMBER: 190261

CAD DATE: 6/4/2021 2:13:33 PM

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BAR IS ONE INCH ON OFFICIAL DRAWINGS.

0 1"

IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION



JORDAN WELL NO. 6

BID PACKAGE 2: WELL EQUIPMENT AND PIPELINE

ANAMOSA, IOWA

E – ELECTRICAL

SCHEDULES

SHEET NO.

E.06

Xref: xgt-1-dh01: xe-1-d01

RESOLUTION NO. 2021-

RESOLUTION SETTING PUBLIC HEARING ON PROPOSED PLANS AND SPECIFICATIONS, PROPOSED FORM OF CONTRACT AND ESTIMATE OF COSTS FOR THE ANAMOSA WELL #6 PROJECT AND THE TAKING OF BIDS FOR SUCH WORK

WHEREAS, the City Council of the City of Anamosa, Iowa now desires to construct a new well to serve the City of ANAMOSA, Iowa; and

WHEREAS, the City Council has contracted with HR Green to design the new well (Well #6); and

WHEREAS, the City Council of the City of ANAMOSA, Iowa, has heretofore authorized the preparation of plans, specifications and bid documents for the construction of Well #6, said plans having been filed with the City Clerk on, or about, July 8, 2021 and

NOW THEREFORE BE IT RESOLVED, by the City Council of the City of ANAMOSA, Iowa, that said improvements are hereby ordered constructed, and that the City Clerk publish notice of date of letting for August 12, 2021 at which time the City Clerk will receive bids for said work up until 2:00 pm, at which time all bids will be opened and publicly read with action to be taken on said bids at a City Council meeting at 6:00 P.M. on August 23, 2021, said notice to be published once at least four, but not more than 45 clear days prior to the date set for letting.

BE IT FURTHER RESOLVED, that a public hearing be held, on August 23, 2021, at 6:00 P.M. for consideration of the adoption by the City Council of the proposed plans, specifications and proposed form of contract for said improvements. The City Clerk shall publish notice of said hearing once at least four, but not more than 20 days prior to the date set for hearing.

Councilmember _____ introduced the foregoing Resolution No. 2021- and moved for its adoption. Councilmember _____ seconded the motion to adopt. The roll was called and the following indicates the vote;

COUNCILMEMBER	AYES	NAYS	ABSENT	ABSTAIN
Crump, Rich				
Smith, Kay				
Machart, John				
Zumbach, Alan				
Stout, Jeff				
Capron, Galen				

PASSED AND APPROVED this 12th day of July, 2021.

Rod Smith, Mayor

ATTEST: _____
Beth Brincks, City Clerk

RESOLUTION NO. 2021-

RESOLUTION APPROVING THE HIRING AND SETTING SALARIES OF SEASONAL PART TIME EMPLOYEES FOR THE PARKS AND RECREATION DEPARTMENT FOR THE 2021 SUMMER SEASON

WHEREAS, with the upcoming summer season there is a need to hire part time seasonal personnel to maintain the parks and to staff the Anamosa Aqua Court; and

WHEREAS, the personnel list and personnel to hire have been reviewed by the Director and recommended to the Parks and Recreation Board where it was approved; and

WHEREAS, such recommendation is now forwarded onto the City Council for their review and consideration.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF ANAMOSA, IOWA, that the following personnel for the upcoming season be approved:

Aqua Court	
Employee Name	Hourly Rate
Joseph Brown	\$10.00
Drew Pate	\$10.00
Aphthon Farrington	\$8.00
Haley Nelson	\$8.50
Kole Haverly	\$8.00
Brady Lasack	\$8.00
Sean Hollett	\$8.00
Ava Claussen-Tubbs	\$7.50

Councilmember _____ introduced the foregoing **Resolution No. 2021-** and moved for its adoption. Councilmember _____ seconded the motion to adopt. The roll was called and the following indicates the result of the vote.

COUNCILMEMBER		AYES	NAYS	ABSENT
CRUMP				
SMITH				
MACHART				
ZUMBACH				
STOUT				
CAPRON				

PASSED AND APPROVED this 12th day of July, 2021.

ROD SMITH, MAYOR

ATTEST:

BETH BRINCKS, CITY CLERK

RESOLUTION NO. 2021-

***RESOLUTION SETTING THE DATE FOR THE PUBLIC HEARING ON THE
APPLICATION FOR COMMUNITY DEVELOPMENT BLOCK GRANT FUNDS FOR
HOUSING REHABILITATION***

WHEREAS, the City of Anamosa has committed to submitting an application for community development block grant funds for housing rehabilitation; and

WHEREAS, the application process requires a public hearing; and

WHEREAS, a public notice of said public hearing is required to be published in the designated local paper no less than four and no more than 20 days prior to the public hearing;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF ANAMOSA, IOWA, that the City of Anamosa City Council does hereby set July 26, 2021 at 6:00 p.m. as the date and time for the public hearing to be held in the Anamosa City Hall Council Chambers in Anamosa, Iowa.

FURTHERMORE, that publication of said public notice shall be made in accordance with the State Code of Iowa.

Councilmember _____ introduced the foregoing **Resolution No. 2021-** and moved for its adoption. Councilmember _____ seconded the motion to adopt. The roll was called and the following indicates the result of the vote.

COUNCILMEMBER	AYES	NAYS	ABSENT	ABSTAIN
CRUMP				
SMITH				
MACHART				
ZUMBACH				
STOUT				
CAPRON				

PASSED AND APPROVED this 12th day of July, 2021.

Rod Smith, Mayor

ATTEST:

Beth Brincks, City Clerk

RESOLUTION NO. 2021-

RESOLUTION SETTING SALARY FOR UTILITY BILLING CLERK

WHEREAS, the City Council sets pay rates; and

WHEREAS, the Utility Billing Clerk was requested consideration of a pay increase for this position;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF ANAMOSA, IOWA, authorizes the setting of a new salary for Linda Iben, Utility Billing Clerk, effective for the current pay period.

Position	Employee Name	Current Wage	New Wage
Utility Billing Clerk	Linda Iben	\$14.85/hour	/hour

Councilmember _____ introduced the foregoing **Resolution No. 2021-** and moved for its adoption.
Councilmember _____ seconded the motion to adopt. The roll was called and the following indicates the result of the vote.

Council Member	AYE	NAY	ABSENT
CRUMP			
SMITH			
MACHART			
CAPRON			
STOUT			
ZUMBACH			

PASSED AND APPROVED this 12th day of July, 2021.

Rod Smith, Mayor

ATTEST:

Beth Brincks, City Clerk

ORDINANCE NO. _____

**AN ORDINANCE AMENDING SECTION 95.06 OF THE CODE OF ORDINANCES OF
THE CITY OF ANAMOSA, IOWA, AND ADDING SECTION 90.10(3) TO REQUIRE
ANNEXATION AS A CONDITION FOR CONNECTION TO THE CITY'S SANITARY
SEWER SERVICE AND WATERWORKS SYSTEM**

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF ANAMOSA, IOWA:

Section 1. Amendment to Section 95.06. Section 95.06 of the Code of Ordinances of the City of Anamosa, Iowa, is amended as follows with underlined text indicating language added and unaltered text indicating existing language unchanged by this amendment but included for context:

95.06 SERVICE OUTSIDE THE CITY. The owners of property outside the corporate limits of the City so situated that it may be served by the City sewer system may apply to the Council for permission to connect to the public sewer upon the terms and conditions stipulated by resolution or ordinance of the Council. Any such application for connection to the public sewer shall be accompanied by an application to voluntarily annex such property to the City and become a part thereof. No such application for connection to the public sewer shall be granted absent annexation of such property.

Section 2. Addition of Section 90.10(3). Section 90.10(3) of the Code of Ordinances of the City of Anamosa, Iowa, is added as follows:

3. A property owner outside the corporate limits of the City so situated that such owner's property may be served by the City's waterworks system may apply to the Council for permission to connect to the waterworks system upon the terms and conditions stipulated by resolution or ordinance of the Council. Any such application for connection to the waterworks system shall be accompanied by an application to voluntarily annex such property to the City and become a part thereof. No such application for connection to the waterworks system shall be granted absent annexation of such property.

Section 3. Repealer. Any provisions of the City Code in conflict with the provisions of this Ordinance are hereby repealed.

Section 4. Severability. If any section, provision, or part of this Ordinance shall be adjudged invalid or unconstitutional, such adjudication shall have no effect on the validity of the Ordinance as a whole or any section, provision, or part thereof not adjudged invalid or unconstitutional.

Section 5. Effective Date. This Ordinance shall be in full force and effect from and after its adoption and publication as provided by law.

PASSED AND APPROVED this ____ day of _____ 2021.

Rod Smith, Mayor

ATTEST:

Beth Brincks, City Clerk/City Administrator

CITY OF ANAMOSA
APPROVAL FORM FOR LIQUOR AND BEER LICENSE APPLICATIONS

Class LC Beer/Liquor
Sunday: Yes ☒ No ☐
New/Renewal/Amended
Circle Appropriate Info.

NAME OF APPLICANT: Fredy A. Gonzalez
TRADE NAME (DBA): Las Brasas, Restaurant LLC
STREET ADDRESS: 300 W Main St Anamosa, IA 52205-1164
PHONE (BUSINESS): 402 202 3746 HOME (OR CELL): 402 601 4173
402 405 6233

The undersigned have by the signatures of the officials noted below, certify that the above mentioned structure conforms to all laws within the jurisdictional limits of enforcement of said officials and may receive approval of this application.

ANAMOSA POLICE DEPARTMENT

The above named applicant(s) is approved by this department to have a beer and/or liquor license at the above location.

[Signature] 07/01/21
Police Chief Date
Leave form at City Hall after Fire and Health signatures are complete

ANAMOSA FIRE DEPARTMENT: Fire Inspection Fee -- \$35.00, includes two inspections. Each inspection after that will be \$25 each. (Make check out to: City of Anamosa)

[Signature] 6-28-21
Fire Chief (or designee) Date
Phone: 319-462-4434 for appointment

JONES COUNTY ENVIRONMENTAL HEALTH DEPARTMENT: (If applicable)

The above mentioned structure and business is in compliance with the Jones County Board of Health Regulations.

[Signature] 6-25-21
Jones County Environmental Health Official Date
Phone: 319-462-4715 for appointment

PLEASE RETURN FORM TO REENIE AT CITY HALL WHEN COMPLETED

Received at City Hall _____ for the _____ Council Meeting

CITY OF ANAMOSA
 PAYMENTS FOR APPROVAL BY CITY COUNCIL ON JULY 12, 2021

JUNE CONSUMER DEPOSIT REFUNDS

Vendor Name	Description	Amount
ACC 400 LLC	ACC 400 CC CONS DEP FEF	74.79
BIEBER/ASHLEY	BIEBER CONS DEP REF	42.74
GOODROW/CHRIS	GOODROW CONS DEP REF	76.34
GRAMS/DAWN	GRAMS CONS DEP REF	14.68
HAYS/NANCY	HAYS CONS DEP REF	45.01
ISBELL/BEN	ISBELL CONS DEP REF	74.17
KUEHL/ZARICK & TRISTA	KUEHL CONS DEP REF	4.52
MANESS/SARA	MANESS CONS DEP REF	77.72
MICHELS/DANIEL	MICHELS CONS DEP REF	86.20
MONSER/JANA	MONSER CONS DEP REF	68.34
PINS/MICHELLE	PINS CONS DEP REF	103.15
RICKLEFS CONSTRUCTION	RICKLEFS CONST DEP REF	49.67
SKARBECK/CATHERINE	SKARBK CONS DEP REF	79.76
VENENGA/SARA	VENENGA CONS DEP REF	23.34
WILLIAMS/MELODY	WILLIAMS CONS DEP REF	49.15
WINKLER/ERIN	WINKLER CONS DEP REF	54.19
	Final Totals...	923.77

FUND RECAP:

FUND DESCRIPTION	DISBURSEMENTS
51 WATER FUND	923.77
TOTAL ALL FUNDS	923.77

JULY 12, 2021 COUNCIL VOUCHERS

Vendor Name	Payable Number	Post Date	Description (It Account Number)	Amoun
Vendor: 000277 - ALLIANT ENERGY				
ALLIANT ENERGY	INV0000016	06/14/2021	ELECTRIC PD 001-110-6371	218.95
ALLIANT ENERGY	INV0000016	06/14/2021	ELECTRIC SIREN 001-111-6371	34.61
ALLIANT ENERGY	INV0000016	06/14/2021	ELECTRIC CITY HA001-650-6371	243.39
ALLIANT ENERGY	INV0000016-R	06/14/2021	ELECTRIC PD 001-110-6371	-218.95
ALLIANT ENERGY	INV0000016-R	06/14/2021	ELECTRIC SIREN 001-111-6371	-34.61
ALLIANT ENERGY	INV0000016-R	06/14/2021	ELECTRIC CITY HA001-650-6371	-243.39
ALLIANT ENERGY	INV0000017	06/14/2021	ELECTRIC FD 015-150-6371	190.92
ALLIANT ENERGY	INV0000017-R	06/14/2021	ELECTRIC FD 015-150-6371	-190.92
ALLIANT ENERGY	INV0000018	06/14/2021	ELECTRIC WATER/W600-810-6371	7,923.34

ALLIANT ENERGY	INV0000018-R	06/14/2021	ELECTRIC WATER/W600-810-6371	-7,923.3
ALLIANT ENERGY	INV0000019	06/14/2021	ELECTRIC STREET 122-511-6371	5,398.83
ALLIANT ENERGY	INV0000019-R	06/14/2021	ELECTRIC STREET 122-511-6371	-5,398.8
ALLIANT ENERGY	INV0000020	06/14/2021	ELECTRIC LIBRARY041-410-6371	1,319.93
ALLIANT ENERGY	INV0000020-R	06/14/2021	ELECTRIC LIBRARY041-410-6371	-1,319.9
ALLIANT ENERGY	INV0000021	06/14/2021	ELECTRIC PARKS 043-430-6371	481.46
ALLIANT ENERGY	INV0000021-R	06/14/2021	ELECTRIC PARKS 043-430-6371	-481.46
ALLIANT ENERGY	INV0000022	06/14/2021	ELECTRIC AQUA C0044-440-6371	30.70
ALLIANT ENERGY	INV0000022-R	06/14/2021	ELECTRIC AQUA C0044-440-6371	-30.70
ALLIANT ENERGY	INV0000023	06/14/2021	ELECTRIC STREET 110-211-6371	146.28
ALLIANT ENERGY	INV0000023-R	06/14/2021	ELECTRIC STREET 110-211-6371	-146.28
ALLIANT ENERGY	INV0000024	06/10/2021	ELECTRIC LCC 046-460-6371	1,195.53
ALLIANT ENERGY	INV0000024-R	06/10/2021	ELECTRIC LCC 046-460-6371	-1,195.5
ALLIANT ENERGY	INV0000025	06/10/2021	ELECTRIC WWTR 610-815-6371	10,107.9
ALLIANT ENERGY	INV0000025-R	06/10/2021	ELECTRIC WWTR 610-815-6371	-10,107.
ALLIANT ENERGY	96124210001	07/07/2021	ELECTRIC 015-150-6371	279.63
ALLIANT ENERGY	96124210002	07/07/2021	ELECTRIC 600-810-6371	9,306.23
ALLIANT ENERGY	96124210003	07/07/2021	ELECTRIC 610-815-6371	12,566.7
ALLIANT ENERGY	96124210004	07/07/2021	ELECTRIC 122-210-6372	5,397.92
ALLIANT ENERGY	96124210005	07/07/2021	ELECTRIC 041-410-6371	1,591.12
ALLIANT ENERGY	96124210006	07/07/2021	ELECTRIC 043-430-6371	459.27
ALLIANT ENERGY	96124210007	07/07/2021	ELECTRIC 044-440-6371	1,244.29
ALLIANT ENERGY	96124210008	07/07/2021	ELECTRIC 110-211-6371	170.97
ALLIANT ENERGY	96124210009	07/07/2021	ELECTRIC 046-460-6371	2,128.07
ALLIANT ENERGY	INV0000038	07/07/2021	ELECTRIC 001-110-6371	342.04
ALLIANT ENERGY	INV0000038	07/07/2021	ELECTRIC 001-111-6371	11.63
ALLIANT ENERGY	INV0000038	07/07/2021	ELECTRIC 001-650-6371	450.67

Vendor 000277 - ALLIANT ENERGY Total: 33,948.6

Vendor: 006141 - AMAZON CAPITAL SERVICES

AMAZON CAPITAL	S1D64-MYMT-JWQY	06/14/2021	TABLET CASE 600-810-6553	27.87
AMAZON CAPITAL	S1JVV-14VD-KN61	06/14/2021	TABLET CASE 600-810-6553	24.98
AMAZON CAPITAL	S16FR-XWHC-DK3J	06/10/2021	TABLET CASE RETU600-810-6553	-21.88

Vendor 006141 - AMAZON CAPITAL SERVICES Total: 30.97

Vendor: 005845 - ANAMOSA ROTARY CLUB

ANAMOSA ROTARY	C07012021	07/07/2021	FIREWORKS 001-610-6479	1,750.00
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Vendor 005845 - ANAMOSA ROTARY CLUB Total: 1,750.00

Vendor: 000006 - AT&T

AT&T	287298794726X	07/07/2021	CELL PHONES	610-815-6373	144.85
AT&T	287298794726X06207/07/2021		CELL PHONES	001-110-6373	458.79
AT&T	287298794726X06207/07/2021		CELL PHONES	001-110-6373	49.96
AT&T	287298794726X06207/07/2021		CELL PHONES	600-810-6373	149.88
AT&T	287298794790X06207/07/2021		CELL PHONES	046-460-6373	49.96
AT&T	287298794790X06207/07/2021		CELL PHONES	041-410-6373	49.96
AT&T	INV0000037	07/07/2021	CELL PHONES	110-211-6373	49.96

Vendor 000006 - AT&T Total: 953.36

Vendor: 005731 - BANOWETZ LUMBER COMPANY INC

BANOWETZ LUMBER	21401	07/07/2021	REBAR	110-211-6543	87.62
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Vendor 005731 - BANOWETZ LUMBER COMPANY INC Total: 87.62

Vendor: 000189 - BARD CONCRETE

BARD CONCRETE	468407	07/07/2021	1110 E 1ST ST	110-211-6543	198.00
BARD CONCRETE	4684071	07/07/2021	1110 E 1ST ST	110-211-6543	139.50

Vendor 000189 - BARD CONCRETE Total: 337.50

Vendor: 000191 - BARRON MOTOR SUPPLY

BARRON MOTOR	SUP269909	07/07/2021	ALTERNATOR/CORE	110-211-6474	136.80
BARRON MOTOR	SUP269958	07/07/2021	WIPER BLADE	610-815-6474	4.44
BARRON MOTOR	SUP270125	07/07/2021	BATTERY	110-211-6555	94.50

Vendor 000191 - BARRON MOTOR SUPPLY Total: 235.74

Vendor: 006178 - BERGANKDV

BERGANKDV	1135993	07/08/2021	AUDIT	001-610-6514	8,308.60
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Vendor 006178 - BERGANKDV Total: 8,308.60

Vendor: 006225 - BURTON/WILLIAM

BURTON/WILLIAM	INV0000027	06/01/2021	ADD 1099 BALANCE	001-622-6491	0.01
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Vendor 006225 - BURTON/WILLIAM Total: 0.01

Vendor: 006055 - CARRICO AQUATIC RESOURCES INC

CARRICO AQUATIC	20213360	07/07/2021	POOL HARDWARE	044-440-6475	576.59
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Vendor 006055 - CARRICO AQUATIC RESOURCES INC Total: 576.59

Vendor: 000395 - CENTURYLINK

CENTURYLINK	395	07/07/2021	PHINE	001-622-6373	127.22
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CENTURYLINK	3952	07/07/2021	PHONE	015-150-6373	53.12
CENTURYLINK	3953	07/07/2021	PHONE	041-410-6373	153.75
CENTURYLINK	3956	07/07/2021	PHONE	001-622-6373	283.17
CENTURYLINK	3958	07/07/2021	PHONE	600-810-6373	63.15
CENTURYLINK	3959	07/07/2021	PHONE	610-815-6373	228.01

Vendor 000395 - CENTURYLINK Total: 908.42

Vendor: 004526 - ELAN-CARDMEMBER SERVICE

ELAN-CARDMEMBER	060121	07/07/2021	POSTAGE - CERT	M001-110-6508	266.00
ELAN-CARDMEMBER	060721	07/07/2021	TRAINING	001-110-6446	110.00
ELAN-CARDMEMBER	061621	07/07/2021	CREDIT CARD	001-110-6553	48.91
ELAN-CARDMEMBER	6220406	07/07/2021	FUEL	610-815-6551	72.60

Vendor 004526 - ELAN-CARDMEMBER SERVICE Total: 497.51

Vendor: 006209 - FREY, HAUF, & CURRENT, PLC

FREY, HAUF, & CINV	0000028	06/01/2021	ADD 1099 BALANCE	001-622-6491	0.01
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Vendor 006209 - FREY, HAUF, & CURRENT, PLC Total: 0.01

Vendor: 000539 - GRAYBILL ELECTRONICS

GRAYBILL ELECTRO	028390	07/07/2021	REPEATER SYSTEM	110-211-6555	2,972.33
GRAYBILL ELECTRO	0283902	07/07/2021	REPEATER SYSTEM	600-810-6556	2,972.33
GRAYBILL ELECTRO	0283903	07/07/2021	REPEATER SYSTEM	610-815-6559	2,972.34
GRAYBILL ELECTRO	028391	07/07/2021	RADIO SYSTEM	110-211-6555	1,133.33
GRAYBILL ELECTRO	0283912	07/07/2021	RADIO SYSTEM	600-810-6556	1,133.33
GRAYBILL ELECTRO	0283913	07/07/2021	RADIO SYSTEM	610-815-6559	1,133.34

Vendor 000539 - GRAYBILL ELECTRONICS Total: 12,317.0

Vendor: 006182 - HENRY/TROY

HENRY/TROY	115325	07/07/2021	GRAVE OPENINGS	001-450-6491	825.00
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Vendor 006182 - HENRY/TROY Total: 825.00

Vendor: 005979 - HOUSBY HEAVY EQUIPMENT

HOUSBY HEAVY EQU	52576	07/07/2021	PARTS	110-211-6555	335.38
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Vendor 005979 - HOUSBY HEAVY EQUIPMENT Total: 335.38

Vendor: 004946 - HOWARD R GREEN

HOWARD R GREEN	144488	07/07/2021	SYCAMORE ST PROJ	121-211-6790	2,770.60
HOWARD R GREEN	144579	07/07/2021	WELL #6 FINAL DE	600-810-6407	14,399.9
HOWARD R GREEN	144661	07/07/2021	GIS TRAINING	610-815-6445	672.32

Vendor 004946 - HOWARD R GREEN Total:					17,842.8
Vendor: 000313 - IOWA LEAGUE OF CITIES					
IOWA LEAGUE OF C070721	07/07/2021	ANNUAL CONFERENC001-622-6445			215.00

Vendor 000313 - IOWA LEAGUE OF CITIES Total:					215.00
Vendor: 003211 - IOWA ONE CALL					
IOWA ONE CALL 231917	07/07/2021	LOCATES	600-810-6553		148.80
IOWA ONE CALL 2319172	07/07/2021	LOCATES	610-815-6553		148.80

Vendor 003211 - IOWA ONE CALL Total:					297.60
Vendor: 004833 - IOWA RURAL WATER ASSOCIATION					
IOWA RURAL WATER070721	07/07/2021	FALL CONFERENCE	600-810-6447		160.00

Vendor 004833 - IOWA RURAL WATER ASSOCIATION Total:					160.00
Vendor: 000098 - JC CROSS CO.					
JC CROSS CO. 63189	07/07/2021	BLOWER FILTER	610-815-6470		1,131.91

Vendor 000098 - JC CROSS CO. Total:					1,131.91
Vendor: 005397 - JETCO INC					
JETCO INC 16485	07/07/2021	VFD PROGRAMMING/	610-815-6470		1,259.40

Vendor 005397 - JETCO INC Total:					1,259.40
Vendor: 000387 - JOHN DEERE FINANCIAL					
JOHN DEERE FINAN4214359	07/07/2021	SWITCHES	110-211-6530		8.97
JOHN DEERE FINAN4214359	07/07/2021	LUBRICANT	110-211-6530		54.90
JOHN DEERE FINAN4214359	07/07/2021	CLEANER	110-211-6530		30.51
JOHN DEERE FINAN4214359	07/07/2021	CLEANER	110-211-6530		3.39
JOHN DEERE FINAN4450242	07/07/2021	RUBBER MAT	610-815-6530		35.94
JOHN DEERE FINAN4450242	07/07/2021	LAB SUPPLIES	610-815-6530		20.51
JOHN DEERE FINAN4450242	07/07/2021	PIPE FITTINGS	610-815-6530		3.98
JOHN DEERE FINANINV0000039	07/07/2021	SWITCHES	110-211-6553		82.43

Vendor 000387 - JOHN DEERE FINANCIAL Total:					240.63
Vendor: 003105 - JONES COUNTY ECONOMIC DEVELOP-					
JONES COUNTY ECO07012021	07/07/2021	1ST QTR FY22 CON001-610-6479			3,750.00
JONES COUNTY ECO070121	07/07/2021	DAYCARE FEASIBIL001-610-6514			1,635.00

Vendor 003105 - JONES COUNTY ECONOMIC DEVELOP- Total:					5,385.00

Vendor: 000245 - JONES COUNTY ENGINEER				
JONES COUNTY ENG07022021	07/07/2021	FUEL	110-211-6550	1,418.73
JONES COUNTY ENG070221	07/07/2021	FUEL	001-110-6551	1,184.10
JONES COUNTY ENG0702211	07/07/2021	FUEL	015-150-6551	357.76

Vendor 000245 - JONES COUNTY ENGINEER Total:				2,960.59
Vendor: 000971 - JONES COUNTY ENVIRONMENTAL SER				
JONES COUNTY ENV062921	07/07/2021	FOOD SERV RENEWA044-440-6470		150.00

Vendor 000971 - JONES COUNTY ENVIRONMENTAL SER Total:				150.00
Vendor: 000296 - JONES COUNTY SOLID WASTE MGMT				
JONES COUNTY SOL160056	07/07/2021	TRASH DISPOSAL 044-440-6541		20.00

Vendor 000296 - JONES COUNTY SOLID WASTE MGMT Total:				20.00
Vendor: 000295 - JONES COUNTY TOURISM				
JONES COUNTY TOU07012021	07/07/2021	FY22 PER CAPITA 001-610-6479		1,276.00

Vendor 000295 - JONES COUNTY TOURISM Total:				1,276.00
Vendor: 005364 - KONICA MINOLTA BUSINESS SOLUTI				
KONICA MINOLTA B273742977	07/07/2021	COPIER METER 001-110-6470		34.99

Vendor 005364 - KONICA MINOLTA BUSINESS SOLUTI Total:				34.99
Vendor: 005945 - KONICA PREMIER FINANCE				
KONICA PREMIER F72222979	07/07/2021	COPIER MONTHLY R001-110-6470		151.70

Vendor 005945 - KONICA PREMIER FINANCE Total:				151.70
Vendor: 005842 - LOU'S GLOVES				
LOU'S GLOVES 41670	07/07/2021	GLOVES 610-815-6530		256.00

Vendor 005842 - LOU'S GLOVES Total:				256.00
Vendor: 006152 - MARTIN GARDNER ARCHITECTURE				
MARTIN GARDNER A26	07/07/2021	DOWNTOWN FACADE 331-600-6490		3,250.00
MARTIN GARDNER A5	07/08/2021	POLICE STATION R351-111-6490		1,325.50

Vendor 006152 - MARTIN GARDNER ARCHITECTURE Total:				4,575.50
Vendor: 005908 - MATHESON TRI-GAS INC				
MATHESON TRI-GAS51823859	07/07/2021	JUNE RENTAL 110-211-6530		55.75

Vendor 005908 - MATHESON TRI-GAS INC Total:				55.75

Vendor: 005161 - MCALEER					
MCALEER	49775	07/07/2021	WATER COOLER	610-815-6535	17.00
MCALEER	93559	07/07/2021	WATER COOLER	001-622-6530	29.00

Vendor 005161 - MCALEER Total:					46.00
Vendor: 003946 - MCOTTO'S					
MCOTTO'S	063021	07/07/2021	CONCESSIONS	6/29044-440-6546	28.50
MCOTTO'S	063021	07/07/2021	CONCESSIONS	6/28044-440-6546	28.50
MCOTTO'S	063021	07/07/2021	CONCESSIONS	6/27044-440-6546	28.50
MCOTTO'S	063021	07/07/2021	CONCESSIONS	044-440-6546	28.50
MCOTTO'S	063021	07/07/2021	CONCESSIONS	044-440-6546	28.50
MCOTTO'S	063021	07/07/2021	CONCESSIONS	044-440-6546	28.50
MCOTTO'S	063021	07/07/2021	CONCESSIONS	6/26044-440-6546	28.50

Vendor 003946 - MCOTTO'S Total:					199.50
Vendor: 005030 - MID-IOWA SOLID WASTE					
MID-IOWA SOLID W54372		07/07/2021	JETTER NOZZLE	610-815-6559	711.00
MID-IOWA SOLID W54543		07/07/2021	JETTER NOZZLE	RE610-815-6559	946.44

Vendor 005030 - MID-IOWA SOLID WASTE Total:					1,657.44
Vendor: 006204 - MISSION COMMUNICATIONS, LLC					
MISSION COMMUNIC153230		07/08/2021	SERVICE PACKAGE	610-815-6472	694.80

Vendor 006204 - MISSION COMMUNICATIONS, LLC Total:					694.80
Vendor: 003491 - MUNICIPAL SUPPLY, INC.					
MUNICIPAL SUPPLY0800744-IN		07/08/2021	SMART POINT	610-815-6504	34,992.0

Vendor 003491 - MUNICIPAL SUPPLY, INC. Total:					34,992.0
Vendor: 000364 - RED'S SALES & SERVICE					
RED'S SALES & SE48997/2018		07/07/2021	VEHICLE MAINTENA001-110-6474		91.86

Vendor 000364 - RED'S SALES & SERVICE Total:					91.86
Vendor: 004520 - ROGERS CONCRETE CONSTRUCTION					
ROGERS CONCRETE 24456A		07/07/2021	HANDICAP RAMPS	110-211-6543	4,010.00

Vendor 004520 - ROGERS CONCRETE CONSTRUCTION Total:					4,010.00
Vendor: 004846 - SADLER POWER TRAIN					
SADLER POWER TRA0110253501		07/07/2021	PARTS	110-211-6552	73.20
SADLER POWER TRA0310148275		07/07/2021	PARTS	110-211-6552	272.46

SADLER POWER TRA0310148287	07/07/2021	PARTS	110-211-6552	178.38
SADLER POWER TRA0310148408	07/07/2021	PARTS	110-211-6552	89.52

Vendor 004846 - SADLER POWER TRAIN Total: 613.56

Vendor: 000401 - SCHNEITER WEERS INSURANCE

SCHNEITER WEERS 979	07/08/2021	WORK COMP INS PR001-110-6160	651.15
SCHNEITER WEERS 979	07/08/2021	WORK COMP INS PR001-210-6160	1,128.66
SCHNEITER WEERS 979	07/08/2021	WORK COMP INS PR001-450-6160	43.41
SCHNEITER WEERS 979	07/08/2021	WORK COMP INS PR001-612-6160	86.82
SCHNEITER WEERS 979	07/08/2021	WORK COMP INS PR001-622-6160	86.82
SCHNEITER WEERS 9791	07/08/2021	WORK COMP INS PR015-150-6160	1,432.53
SCHNEITER WEERS 9792	07/08/2021	WORK COMP INS PR041-410-6160	43.41
SCHNEITER WEERS 9793	07/08/2021	WORK COMP INS PR043-430-6160	86.82
SCHNEITER WEERS 9794	07/08/2021	WORK COMP INS PR044-440-6160	173.64
SCHNEITER WEERS 9795	07/08/2021	WORK COMP INS PR046-460-6160	303.87
SCHNEITER WEERS 9796	07/08/2021	WORK COMP INS PR600-810-6160	173.64
SCHNEITER WEERS 9797	07/08/2021	WORK COMP INS PR610-815-6160	130.23

Vendor 000401 - SCHNEITER WEERS INSURANCE Total: 4,341.00

Vendor: 000377 - SHAFFER PLBG & HTG

SHAFFER PLBG & H432	07/07/2021	PLUMBING SRV - M044-440-6475	112.35
SHAFFER PLBG & H438	07/08/2021	LABOR FOR SLIDE 044-440-6475	1,275.00

Vendor 000377 - SHAFFER PLBG & HTG Total: 1,387.35

Vendor: 004601 - TECHNICOM, INC.

TECHNICOM, INC. 30102	07/07/2021	PHONE SYSTEM YRL001-622-6373	318.27
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Vendor 004601 - TECHNICOM, INC. Total: 318.27

Vendor: 005660 - TOWN & COUNRTY WHOLESALE

TOWN & COUNRTY W383261	07/08/2021	CONCESSION ITEMS044-440-6546	83.58
TOWN & COUNRTY W383566	07/08/2021	CONCESSION ITEMS044-440-6546	350.50
TOWN & COUNRTY W383572	07/08/2021	CONCESSION ITEMS044-440-6546	86.88

Vendor 005660 - TOWN & COUNRTY WHOLESALE Total: 520.96

Vendor: 006195 - TYLER TECHNOLOGIES, INC

TYLER TECHNOLOGI025-338059	07/07/2021	INCODE FINANCIAL001-622-6490	4,305.00
TYLER TECHNOLOGI025-339203	07/07/2021	INCODE FINANCIAL001-622-6490	210.00
TYLER TECHNOLOGI025-339737	07/08/2021	INCODE FINANCIAL001-622-6490	210.00

Vendor 006195 - TYLER TECHNOLOGIES, INC Total: 4,725.00

Vendor: 004002 - U.S. CELLULAR

U.S. CELLULAR	0447560110	07/07/2021	CELL SERVICE HOT110-211-6490	5.00
U.S. CELLULAR	04475601101	07/07/2021	CELL PHONE 600-810-6373	30.23
U.S. CELLULAR	04475601102	07/07/2021	CELL PHONE 610-815-6373	47.69
U.S. CELLULAR	4477781743	07/07/2021	CELL PHONE 001-110-6480	172.96

Vendor 004002 - U.S. CELLULAR Total: 255.88

Vendor: 004609 - VISU-SEWER CLEAN & SEAL, INC

VISU-SEWER CLEAN33089	07/08/2021	MANHOLE REHAB	610-815-6785	61,702.4
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Vendor 004609 - VISU-SEWER CLEAN & SEAL, INC Total: 61,702.4

Vendor: 000398 - WALMART COMMUNITY CARD

WALMART COMMUNIT321175557897510	07/08/2021	CLEANING SUPPLIE044-440-6541	121.68
WALMART COMMUNIT83653323745	07/08/2021	LAB SUPPLIES 610-815-6530	21.24

Vendor 000398 - WALMART COMMUNITY CARD Total: 142.92

Vendor: 004582 - WAPSI WASTE SERICE, INC.

WAPSI WASTE SERI3494	07/08/2021	TRASH PICKUP	600-810-6530	55.00
WAPSI WASTE SERI3511	07/08/2021	WASTE REMOVAL	001-290-6461	347.00
WAPSI WASTE SERI35111	07/08/2021	WASTE REMOVAL	015-150-6556	45.00
WAPSI WASTE SERI35112	07/08/2021	WASTE REMOVAL	610-815-6554	45.00

Vendor 004582 - WAPSI WASTE SERICE, INC. Total: 492.00

Grand Total: 213,316.

Fund Summary

Fund	Payment Am
001 - GENERAL FUND	28,959.75
015 - FIRE SERVICE	2,168.04
041 - LIBRARY FUND	1,838.24
043 - PARKS & RECREATION	546.09
044 - AQUA COURT	4,394.01
046 - LAWRENCE COMMUNITY CENT	2,481.90
110 - ROAD USE TAX	11,601.63
121 - LOCAL OPTION TAX 35%	2,770.60
122 - LOCAL OPTION TAX 65%	5,397.92
331 - DOWNTOWN PROJECTS/PROGR	3,250.00

351 - POLICE STATION RENOVATI	1,325.50
600 - WATER FUND	28,623.49
610 - WASTEWATER FUND	119,959.00

Grand Total	213,316.17

June Cash Register Reciepts by Fund

FUND RECAP:

FUND	DESCRIPTION	RECEIPTS
01	GENERAL FUND	187,167.87
06	ROAD USE TAX FUND	75,881.87
09	LOCAL OPTION TAX	42,335.43
26	CEMETERY PERPETUAL CARE FUND	150.00
50	CONSUMER DEPOSITS FUND	3,000.00
51	WATER FUND	405.00
52	WASTEWATER FUND	50,804.86
73	DOWNTOWN REVITALIZATION PROG	83,617.35
TOTAL	ALL FUNDS	443,362.38