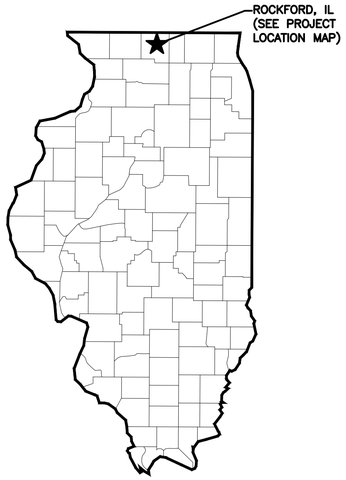
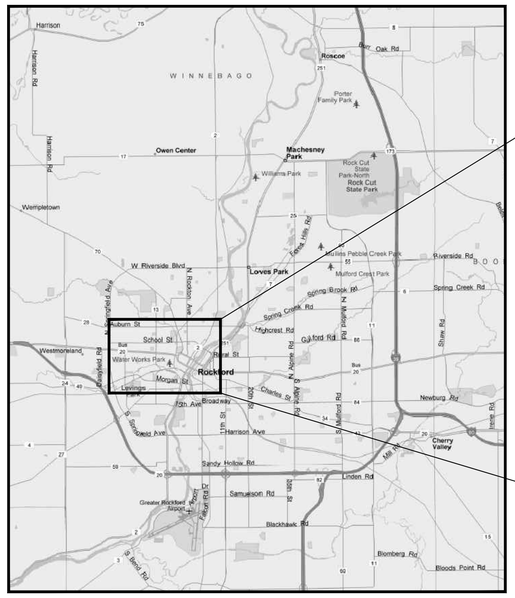
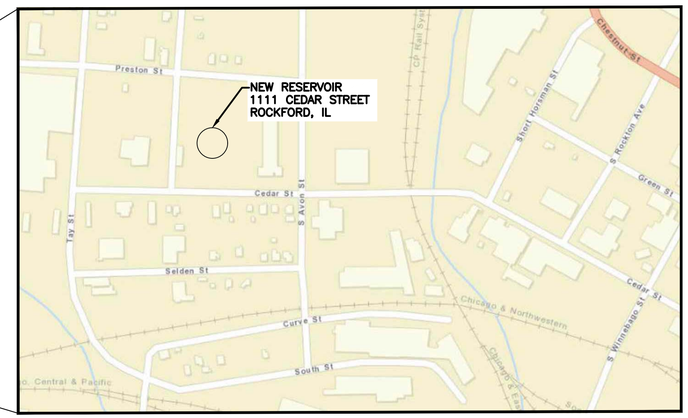
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS

FOR THE

CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS







PROJECT LOCATION MAP
NO SCALE

N

910 West Wingra Drive
Madison WI, 53715
608-251-4843
IDFPR NO. 184-001273
www.strand.com

LICENSED PROFESSIONAL ENGINEER
RYAN D WOOD
062-067995
STATE OF ILLINOIS
7/24/2025
EXP. 11/30/2025

SEAL APPLIES TO ALL "G" AND "M" DRAWINGS

LICENSED PROFESSIONAL ENGINEER
NATHANIEL LEE BRANDT
062-065921
STATE OF ILLINOIS
7/24/2025
EXP. 11/30/2025

SEAL APPLIES TO ALL "H" AND "P" DRAWINGS AND DRAWING 90-D1.03

LICENSED PROFESSIONAL ENGINEER
BRENT M. STUDNICKA
062-056361
REGISTERED PROFESSIONAL ENGINEER OF
ILLINOIS
Brent M Studnicka
7/24/2025
EXP. 11/30/2025

SEAL APPLIES TO ALL "E" DRAWINGS

LICENSED STRUCTURAL ENGINEER
KEITH ROBERT BEHREND
081-007864
STATE OF ILLINOIS
7/24/2025
Expires 11/30/2026

SEAL APPLIES TO ALL "D" , "A", AND "S" DRAWINGS UNLESS OTHERWISE NOTED

LICENSED PROFESSIONAL ENGINEER
ANTHONY J SPINELLI
062.053265
STATE OF ILLINOIS
EXPIRES: 11-30-2025
7-24-2025

SEAL APPLIES TO ALL "C" DRAWINGS UNLESS OTHERWISE NOTED

LICENSED LANDSCAPE ARCHITECT
BLAKE A. THEISEN
157.001452
STATE OF ILLINOIS
7/24/25
Exp. 8/31/25

SEAL APPLIES TO DRAWINGS 01-C7.01 THROUGH 01-C9.11 (14 TOTAL)

STRAND ASSOCIATES®

BID No. 1224-W-125

ISSUED FOR BID JULY 24, 2025

SHEET
1
00-G0.01

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NO.	REVISIONS	DATE:
-	ISSUED FOR BID	07/24/2025

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WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

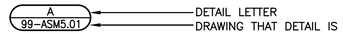
PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

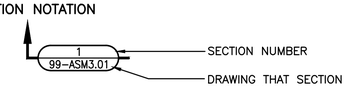
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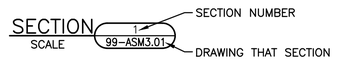
DRAFTING SYMBOLS

DETAIL NOTATION



SECTION NOTATION

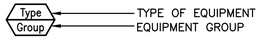


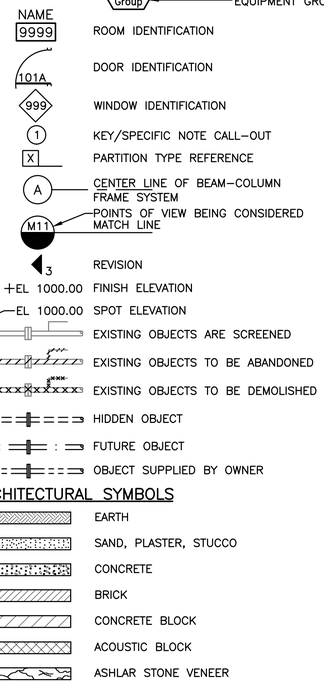


ELEVATION NOTATION

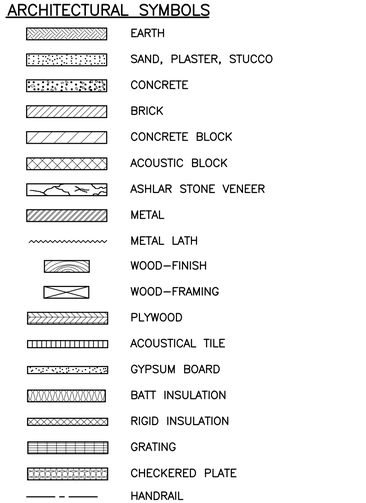


EQUIPMENT IDENTIFICATION

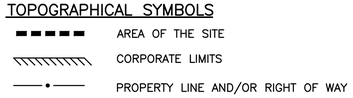


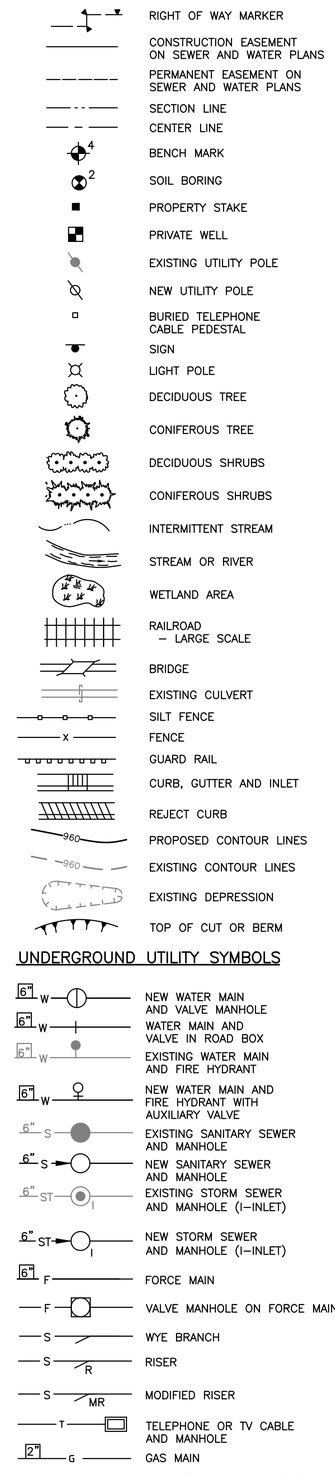


ARCHITECTURAL SYMBOLS

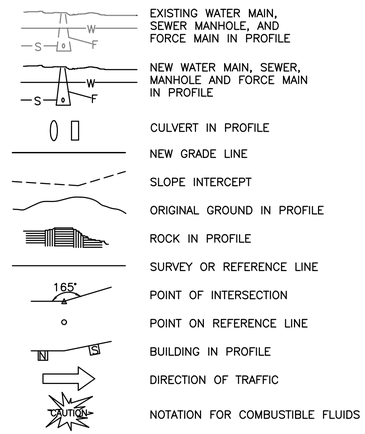


TOPOGRAPHICAL SYMBOLS

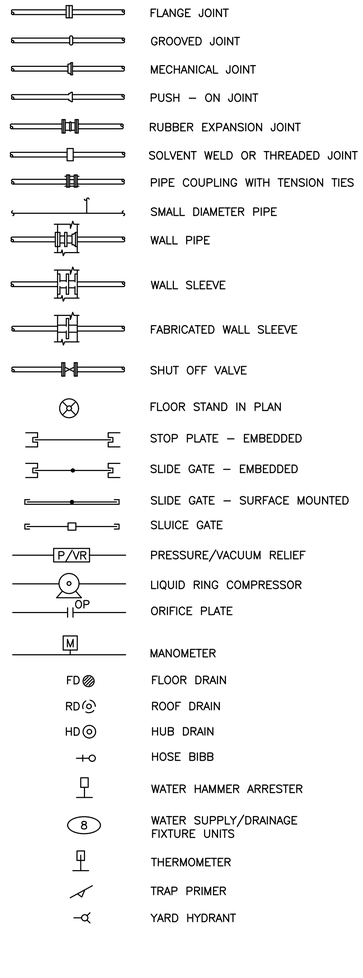




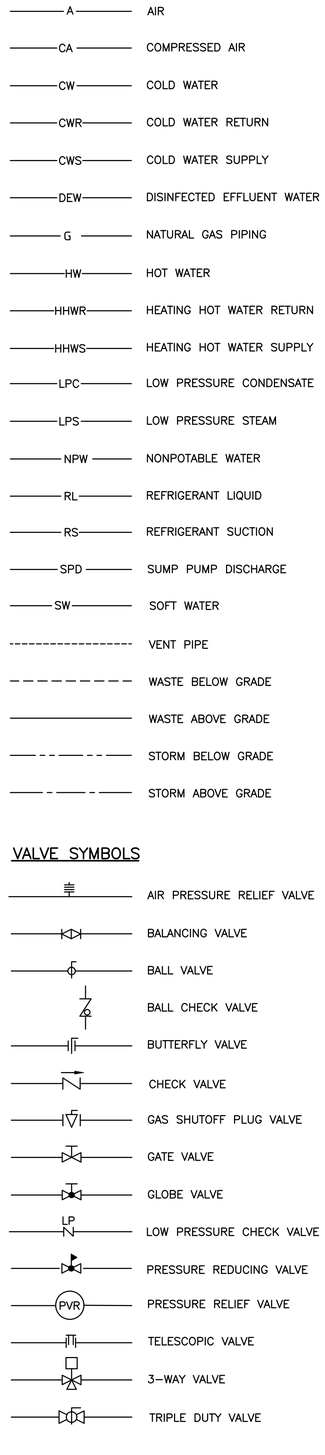
UNDERGROUND UTILITY SYMBOLS



PIPING SYMBOLS

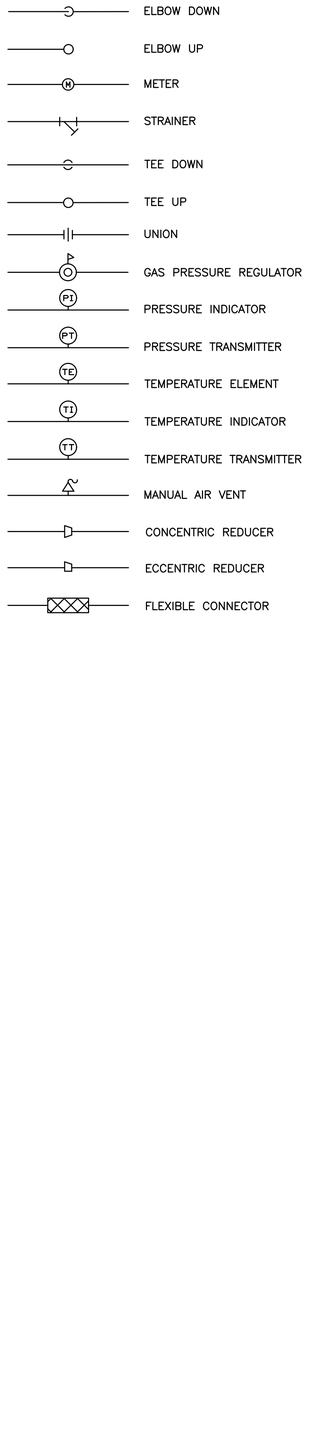


PIPING DESIGNATIONS



VALVE SYMBOLS

PIPING SYMBOLS



NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

STANDARD SYMBOLS - 1

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO.
1110.037

PROJECT MGR.
RYAN WOOD

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ELECTRICAL SYMBOLS

LIGHTING

- FIXTURE SYMBOL (TYPICAL) A–INDICATES FIXTURE TYPE 2–INDICATES CIRCUIT NUMBER b–INDICATES SWITCHING SOLID CIRCLE INDICATES ALWAYS ON
- SURFACE OR PENDANT MOUNTED
- WALL MOUNTED
- 1X4 SURFACE OR PENDANT MOUNTED LINEAR
- 1X8 SURFACE OR PENDANT MOUNTED LINEAR
- WALL MOUNTED LINEAR
- 1X4 RECESSED LINEAR
- 2X2 RECESSED LINEAR
- 2X4 RECESSED LINEAR
- RECESSED CAN
- EXIT, SURFACE, PENDANT OR RECESSED
- EXIT, WALL
- EMERGENCY LIGHTING

SWITCHES

- SINGLE POLE
  #: (BLANK) = SINGLE POLE
  2 = TWO–WAY
  3 = THREE–WAY
  4 = FOUR–WAY
  K = KEYED
  D = DIMMER
  M = MANUAL MOTOR SWITCH (3 PHASE)
  P = SWITCH WITH PILOT LIGHT
  WP = WEATHERPROOF
- LIGHTING CONTROL STATION
- PHOTOCELL

EQUIPMENT AND WIRING

- DISCONNECT, F=FUSED, B=CIRCUIT BREAKER, BLANK=NON–FUSED
- CIRCUIT BREAKER COMBINATION STARTER
- JUNCTION BOX
- LINE VOLTAGE THERMOSTAT
- P–01–01 480V LOAD, REFER TO MCC/PANEL SCHEDULE FOR EQUIPMENT NUMBER
- SOLENOID VALVE

POWER AND ONE–LINE DIAGRAM SYMBOLS

- CIRCUIT NUMBER (TYPICAL) OTHERWISE SHOWN PANEL DESIGNATION (TYP.) WP INDICATES WEATHERPROOF
- DUPLEX, 120 VOLT, 3'–6" AFF
- DOUBLE DUPLEX, 120 VOLT, 3'–6" AFF
- DOUBLE DUPLEX, 120 VOLT, 15" AFF
- EWC SINGLE CONVENIENCE, 120 VOLT FOR ELECTRIC WATER COOLER
- EXPLOSION–PROOF, 3'–6" AFF
- EXPLOSION–PROOF, 15" AFF
- FIXED EQUIPMENT CONNECTION
- POWER OUTLET, VOLTAGE & AMPERAGE AS INDICATED
- AUTOMATIC TRANSFER SWITCH
- CIRCUIT BREAKER
- PANELBOARD
- FUSE
- METER
- DRAW–OUT TYPE CIRCUIT BREAKER
- X:YA CURRENT TRANSFORMER, X:YA INDICATES RATIO
- PROTECTIVE RELAY *: SEE LEGEND
- TRANSFORMER
- DISCONNECT SWITCH
- CIRCUIT BREAKER INTERLOCK *: K = KIRK KEY E = ELECTRONIC

FIRE ALARM AND DETECTION SYMBOLS

- FACP FIRE ALARM CONTROL PANEL
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FA ## STROBE; WALL MOUNT — STROBE CANDELA RATING 80" AFF
- FA H HORN STROBE; WALL MOUNT — STROBE CANDELA RATING 80" AFF
- FA S SPEAKER STROBE; WALL MOUNT — STROBE CANDELA RATING 80" AFF
- FA H HORN; WALL MOUNT
- FA S SPEAKER; WALL MOUNT
- X ## STROBE; CEILING MOUNT — STROBE CANDELA RATING
- X ## HORN STROBE; CEILING MOUNT — STROBE CANDELA RATING
- X S ## SPEAKER STROBE; CEILING MOUNT — STROBE CANDELA RATING
- ARA AREA OF RESCUE ASSISTANCE
- EMERGENCY TELEPHONE SYSTEM
- H HEAT DETECTOR; CEILING MOUNT
- Z SMOKE DETECTOR; CEILING MOUNT
- Z R ELEVATOR RECALL SMOKE DETECTOR
- NOX NITROUS OXIDE SENSOR
- CO CARBON MONOXIDE SENSOR
- DSD o SWITCH INDICATION; ## DUCT SIZE — DUCT SMOKE DETECTOR
- RTS o REMOTE TEST SWITCH — SWITCH INDICATION
- FIRE ALARM PULL STATION
- SFS SPRINKLER FLOW SWITCH
- TM SPRINKLER VALVE TAMPER SWITCH
- B FIRE ALARM BELL

TECHNOLOGY SYMBOLS

- (*) DATA JACK; * = # OF JACKS
- (*) POTS ANALOG PHONE JACK; * = # OF JACKS
- (*P *D) POTS ANALOG PHONE AND DATA JACKS; * = # OF JACKS
- VOIP WALL MOUNT VOIP PHONE JACK ABOVE FURNITURE
- WALL MOUNT POTS ANALOG PHONE JACK ABOVE FURNITURE
- SCADA NETWORK JACK
- 2–POST DATA RACK
- COAX CABLE JACK
- POWER POLE
- PA H PA SYSTEM HORN; 10'–0" AFF
- PA S PA SYSTEM SPEAKER
- A CEILING MOUNT SPEAKER A=SPEAKER TYPE
- K KEY PAD
- GBD GLASS BREAK DETECTOR
- MS MOTION SENSOR
- P PUSH BUTTON
- ES ELECTRIC STRIKE
- ML MAGNETIC LOCK
- I INTERCOM STATION
- OS ## OCCUPANCY SENSOR, CEILING, OR WALL — SEE SPECIFICATION FOR SENSOR TYPE
- YE CARD READER
- RVC REMOTE VOLUME CONTROL
- FIX FIXED SECURITY CAMERA
- PTZ PAN, TILT, ZOOM SECURITY CAMERA
- PAN PANORAMIC SECURITY CAMERA
- H ALARM HORN; WALL MOUNT
- WARNING LIGHT; WALL MOUNT
- OMNI–DIRECTIONAL ANTENNA
- DIRECTIONAL (YAGI) ANTENNA

SITE SYMBOLS

- E UNDERGROUND ELECTRIC
- OH OVERHEAD ELECTRIC
- C CABLE TELEVISION SERVICE
- T TELEPHONE SERVICE
- FO FIBER OPTIC CABLE
- UTILITY POLE

MECHANICAL/HVAC SYMBOLS

DAMPER AND ACTUATOR SYMBOLS

- M AUTOMATIC DAMPER
- BDD BACKDRAFT DAMPER
- MANUAL VOLUME DAMPER
- FD 1–1/2 HR. FIRE DAMPER
- M MOTOR (ELECTRIC)
- P PNEUMATIC
- S SOLENOID

EQUIPMENT SYMBOLS

- ACU ACCUMULATOR
- AIR FLOW DIRECTION
- BASE MOUNTED PUMP
- BLOWER
- CEILING DIFFUSER WITH FLEXIBLE DUCT
- CENTRIFUGAL PUMP
- CONNECT TO EXISTING
- DT DRIP TRAP
- DUCT BOOST COIL
- Type Group EQUIPMENT TAG
- FA FLAME ARRESTER
- FC FLAME CELL
- FT FLAME TRAP ASSEMBLY
- G GRINDER
- INLINE PUMP
- POSITIVE DISPLACEMENT PUMP
- ROOF EXHAUST FAN
- UNIT HEATER
- VARIABLE AIR VOLUME (VAV) BOX WITH ELECTRIC REHEAT COIL
- FLOATING MIXER

DUCTWORK SYMBOLS

- SUPPLY DUCT (UP OR SECTION)
- SUPPLY OR OUTSIDE AIR DUCT (DOWN/OR AWAY)
- EXHAUST DUCT (UP OR SECTION)
- EXHAUST OR RETURN DUCT (DOWN/OR AWAY)
- ROUND DUCTWORK UP
- ROUND DUCTWORK DOWN
- FLEXIBLE CANVAS CONNECTION
- TURNING VANES

FIELD MOUNTED HVAC CONTROLS

- T THERMOSTAT
- H ROOM HUMIDISTAT
- P PRESSURE SENSOR
- S ROOM SENSOR
- S DUCT SMOKE DETECTOR
- PRESSURE GAUGE

INSTRUMENTATION SYMBOLS

INTERNATIONAL SOCIETY OF AUTOMATION (ISA) DEFINITION TABLE

LETTER	FIRST LETTERS: PROCESS OR INITIATING VARIABLE	FIRST LETTERS: MODIFIER	SUCCEEDING LETTERS: READOUT OR PASSIVE FUNCTION	SUCCEEDING LETTERS: OUTPUT FUNCTION	SUCCEEDING LETTERS: MODIFIER
A	ANALYSIS (+)		ALARM		
B	BURNER, COMBUSTION		USER'S CHOICE (+)	USER'S CHOICE (+)	USER'S CHOICE (+)
C	USER'S CHOICE (+)			CONTROL	CLOSE
D	USER'S CHOICE (+)	DIFFERENTIAL			DEVIATION
E	VOLTAGE		PRIMARY ELEMENT (SENSOR)		
F	FLOW, FLOW RATE	RATIO			
G	USER'S CHOICE (+)		GLASS, GAUGE	GATE	
H	HAND (MANUAL)				HIGH
I	CURRENT		INDICATE		
J	POWER	SCAN			
K	TIME, SCHEDULE	TIME RATE		CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW
M	USER'S CHOICE (+)	MOMENTARY			MIDDLE
N	USER'S CHOICE (+)		USER'S CHOICE (+)	USER'S CHOICE (+)	USER'S CHOICE (+)
O	USER'S CHOICE (+)		ORIFICE, RESTRICTION		OPEN
P	PRESSURE, VACUUM		POINT (TEST CONNECTION)		
Q	QUANTITY (+)	INTEGRATE	INTEGRATE		
R	RADIATION		RECORD		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE (+)		MULTIFUNCTION (+)	MULTIFUNCTION (+)	MULTIFUNCTION (+)
V	VISCOSITY, VIBRATION			VALVE, DAMPER	
W	WEIGHT, FORCE		WELL, PROBE		
X	UNCLASSIFIED (+)	X–AXIS	UNCLASSIFIED (+)	UNCLASSIFIED (+)	UNCLASSIFIED (+)
Y	EVENT,STATE, PRESENCE (+)	Y–AXIS		RELAY, COMPUTE (+)	
Z	POSITION, DIMENSION	Z–AXIS		DRIVE, ACTUATOR OR UNCLASSIFIED FINAL CONTROL ELEMENT	

(+) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS.

DEVICE TAG NAMING & DESCRIPTORS

EQUIPMENT

TAG NAMING: W–XY–Z
W = TYPE OF EQUIPMENT
XY = LOOP/STRUCTURE NUMBER
Z = UNIT NUMBER

CONTROL & INSTRUMENTATION

TAG NAMING: TRC–XY–Z
T = FIRST LETTER FROM ISA DEFINITION TABLE
RC = SUCCEEDING LETTERS FROM ISA DEFINITION TABLE
XY = LOOP/STRUCTURE NUMBER
Z = UNIT NUMBER

ADDITIONAL DESCRIPTORS:
A = NUMBER OF UNITS DEPICTED (BLANK IF ONE)
B = NUMBER OF SETS DEPICTED (BLANK IF ONE)
D = SUPPLEMENTAL DESCRIPTION (REFER TO INSTRUMENT–SPECIFIC ELECTRICAL ABBREVIATIONS)

INSTRUMENTS

- TRC XY–Z (A)(B) D — GENERAL INSTRUMENT (SEE DEVICE TAG NAMING & DESCRIPTORS ABOVE AND ABBREVIATIONS SHEET)

NO.	REVISIONS	DATE:
–	ISSUED FOR BID	07/24/2025

STANDARD SYMBOLS - 2

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037
PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 4
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GENERAL EQUIPMENT ABBREVIATIONS

AC	AIR COMPRESSOR
ACU	ACCUMULATOR
ADT	AUTOMATIC DRIP TRAP
AFT	AUTOMATIC FILTER
AOV	AIR OPERATED VALVE
AM	ANOXIC MIXER
AST	AUTOMATIC STRAINER
BSLP	BLENDED SLUDGE PUMP
B	BLOWER
BC	BRIDGE CRANE
BFP	BELT FILTER PRESS
BFPFP	BFP FEED PUMP
BFV	BUTTERFLY VALVE
BLP	BIOSOLIDS LOADING PUMP
BLR	BOILER
BP	BOOSTER PUMP
BSLMP	BLENDED SLUDGE MIXING PUMP
BSLP	BLENDED SLUDGE PUMP
BSTM	BIOSOLIDS STORAGE MIXER
BTP	BIOSOLIDS TRANSFER PUMP
BWP	BACKWASH PUMP
CENT	CENTRIFUGE
CNTP	CENTRATE PUMP
CENTP	CENTRIFUGE FEED PUMP
CP	CHEMICAL PUMP
COMP	COMPRESSOR
CON	CONVEYOR
DBC	DEWATERED BIOSOLIDS CONVEYOR
DCP	DECANT PUMP
DEWP	DISINFECTED EFFLUENT PUMP
DP	DRAINAGE PUMP
DRLP	DIGESTER RECIRCULATION PUMP
DSLMP	DIGESTER MIXING PUMP
DSLTP	DIGESTED SLUDGE TRANSFER PUMP
DT	DRIP TRAP
DOW	DOWNWARD OPENING WEIR GATE
EFC	EXCESS FLOW CLARIFIER
EFP	EXCESS FLOW PUMP
EFSP	EXCESS FLOW SOLIDS PUMP
EP	EFFLUENT PUMP
FC	FINAL CLARIFIER
FCD	FINAL CLARIFIER DRIVE
FEP	FINAL EFFLUENT PUMP
FILT	FILTER
FM	FLOW METER
FO	FERMENTER OVERFLOW
FRS	FERMENTED SLUDGE
FT	FLAME TRAP
GBT	GRAVITY BELT THICKENER
GC	GRIT CLASSIFIER
GFM	GAS FLOW METER
GCS	GAS COMPRESSOR SKID
GP	GRIT PUMP
GRN	GRINDER
GT	GRIT TRAP
GUH	GAS UNIT HEATER
GW	GRIT WASHER
H	HOIST
HBT	HYDROPNEUMATIC BOOSTER TANK
HTX	HEAT EXCHANGER
IP	INFLUENT PUMP
MA	MOTORIZED ACTUATOR
MBV	MOTORIZED BALL VALVE
MFS	MECHANICAL FINE SCREEN
MIX	MIXER
MOV	MOTOR OPERATED VALVE
MP	MIXING PUMP
MPE	MISCELLANEOUS PROCESS EQUIPMENT
MST	MANUAL STRAINER
MT	MICROTURBINE
NRP	NITRATE RECYCLE PUMP
OCD	OVERHEAD COILING DOOR
OCE	ODOR CONTROL EQUIPMENT
ODE	OXIDATION DITCH EQUIPMENT
PC	PROGRESSING CAVITY PUMP
PCD	PRIMARY CLARIFIER DRIVE
PCFD	PRIMARY CLARIFIER FLOCCULATOR DRIVE
PF	POLYMER FEEDER
PFP	POLYMER FEED PUMP
PLWP	PLANT WATER PUMP
PRCP	PHOSPHORUS REMOVAL CHEMICAL PUMP
PRCT	PHOSPHORUS REMOVAL CHEMICAL TANK
PREP	PRIMARY EFFLUENT PUMP
PRFP	PROCESS RETURN FLOW PUMP
PRSP	PRIMARY SLUDGE PUMP
PTP	POLYMER TRANSFER PUMP
RAD	REFRIGERATED AIR DRYER
RASP	RETURN ACTIVATED SLUDGE PUMP
RDT	ROTARY DRUM THICKENER
RDTP	ROTARY DRUM THICKENER FEED PUMP
RM	RAPID MIXER
SA	SAMPLER
SBFP	SODIUM BISULFITE FEED PUMP
SBST	SODIUM BISULFITE STORAGE TANK
SCMP	SCUM PUMP
SCW	SCREENINGS WASHER
SEJ	SEWAGE EJECTOR
SG	SLIDE GATE
SHFP	SODIUM HYPOCHLORITE FEED PUMP
SHST	SODIUM HYPOCHLORITE STORAGE TANK
SLG	SLUICE GATE
SP	SUMP PUMP
SRT	SILOXANE REMOVAL TANK
SSC	SCREENINGS SCREW CONVEYOR
STCP	STRUVITE CHEMICAL PUMP
STG	STOP GATE
STR	STRAINER
SV	SOLENOID VALVE
SWP	SCREENINGS WASHER/PRESS
TV	TELESCOPING VALVE
TWASP	TWAS PUMP
UV	ULTRAVIOLET DISINFECTION
WASP	WAS PUMP

FLUID ABBREVIATIONS

A	AIR
BOX	BIOXIDE
BSL	BLENDED SLUDGE
BWW	BACKWASH WATER
CA	COMPRESSED AIR
CNT	CENTRATE
CDG	COMPRESSED DIGESTER GAS
CLS	CHLORINE SOLUTION
CNT	CENTRATE
CW	COLD WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
D	DRAIN
DEW	DISINFECTED EFFLUENT WATER
DG	DIGESTER GAS
DIV	DIVERSION
DRL	DIGESTER RECIRCULATION
DS	DIGESTER SUPERNATANT
DSL	DIGESTED SLUDGE
DSL MD	DIGESTER SLUDGE MIXER DISCHARGE
DSL MS	DIGESTER SLUDGE MIXER SUCTION
EF	EXCESS FLOW
FC	FERRIC CHLORIDE
EFS	EXCESS FLOW SOLIDS
FE	FINAL EFFLUENT
F	FORCE MAIN
G	NATURAL GAS
GR	GRIT
GTS	GRAVITY THICKENER SUPERNATANT
HHGR	HEATING HOT GLYCOL RETURN
HHGS	HEATING HOT GLYCOL SUPPLY
HOCL	HYPOCHLORITE
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
ML	MIXED LIQUOR
MLW	MILL WASTE
MTW	METRO WASTE
NAOH	SODIUM HYDROXIDE
NPW	NONPOTABLE WATER
OF	OVERFLOW
OC	ODOR CONTROL
PD	PLANT DRAIN
PDP	PERFORATED DRAIN PIPE
PE	PLANT EFFLUENT
PEC	POLYELECTROLYTE CHEMICAL
PER	PLANT EFFLUENT REUSE
PI	PLANT INFLUENT
PRC	PHOSPHORUS REMOVAL CHEMICAL
PRE	PRIMARY EFFLUENT
PRF	PROCESS RETURN FLOW
PRI	PRIMARY INFLUENT
PRS	PRIMARY SLUDGE
PSS	PLANT SANITARY SEWER
PW	POTABLE WATER
PWR	PROCESS WATER RETURN
PWS	PROCESS WATER SUPPLY
RAS	RETURN ACTIVATED SLUDGE
RW	RAW WASTEWATER
SAM	SAMPLE
SAN	SANITARY SEWER
SB	SODIUM BISULFITE
SCM	SCUM
SCMD	SCUM DECANT
SE	SECONDARY EFFLUENT
SH	SODIUM HYPOCHLORITE
SL	SLUDGE
SPD	SUMP PUMP DISCHARGE
SSM	SECONDARY SCUM
ST	STORM SEWER
STC	STRUVITE CHEMICAL
SW	SERVICE WATER
SWS	SEAL WATER SUPPLY

PLUMBING ABBREVIATIONS

AEW	APRON END WALL
BF	BLIND FLANGE
CA	COMPRESSED AIR
CB	CATCH BASIN
CD	CONDENSATE DRAIN
CI	CAST IRON
CO	CLEAN OUT
COND	CONDENSATE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CW	COLD WATER
D	DRAIN
DCBP	DOUBLE CHECK BACKFLOW PREVENTER
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DI	DUCTILE IRON
ESEW	EMERGENCY SHOWER EYEWASH
EW	EYEWASH
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
HB	HOSE BIBB
HD	HUB DRAIN
HDPE	HIGH DENSITY POLYETHYLENE
HHGR	HEATING HOT GLYCOL RETURN
HHGS	HEATING HOT GLYCOL SUPPLY
HR	HOSE REEL
HWL	HIGH WATER LEVEL
HW	HOT WATER
HWR	HOT WATER RETURN
IE	INVERT ELEVATION
IWP	INDIRECT WASTE PIPE
L	LAVATORY
MB	MOP BASIN
MH	MANHOLE
MV	MUD VALVE
PHW	PROCESS HOT WATER
P	PUMP
PLW	PLANT WATER
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PVR	PRESSURE VACUUM RELIEF ASSEMBLY
QC	QUICK CONNECT
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RZBP	REDUCED ZONE BACKFLOW PREVENTER
S	SINK
SD	SHOWER DRAIN
SEJ	SEWAGE EJECTOR
SHR	SHOWER
SP	SUMP PUMP
SS	STAINLESS STEEL
SV	SOLENOID VALVE
SVS	SERVICE SINK
T	TANK
TD	TRENCH DRAIN
U	URINAL
V	VENT
VB	VACUUM BREAKER
VCP	VITRIFIED CLAY PIPE
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT

GENERAL/HVAC ABBREVIATIONS

ACH	AIR CHANGES PER HOUR
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AP	ACCESS PANEL
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
COND	CONDENSATE
DAT	DISCHARGE AIR TEMPERATURE
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DG	DOOR GRILLE
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EL	ELEVATION
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FC	FAIL CLOSED
FLA	FULL LOAD AMPS
FO	FAIL OPEN
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FT	FEET
GA	GAUGE
GPM	GALLONS PER MINUTE
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSANDS OF BTU PER HOUR
MC	MECHANICAL CONTRACTOR
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OV	OUTLET VELOCITY
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SP	STATIC PRESSURE

HVAC EQUIPMENT ABBREVIATIONS

ACCU	AIR COOLED CONDENSING UNIT
AFR	ARCHITECTURAL FINE TUBE RADIATION
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
BLR	BOILER
BB	BASEBOARD
C	CONVECTOR
CD	CEILING DIFFUSER
CHILL	CHILLER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CWP	CHILLED WATER PUMP
DC	DRY COOLER
DH	DEHUMIDIFIER
DL	DRUM LOUVER
EBB	ELECTRIC BASEBOARD
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EJ	EXPANSION JOINT
EL	EXPANSION LOOP
ER	EXHAUST REGISTER
ERC	ELECTRIC REHEAT COIL
ERU	ENERGY RECOVERY UNIT
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FR	FINNED TUBE RADIATION
FUR	FURNACE
GDF	GAS DUCT FURNACE
GRV	GRAVITY ROOF VENTILATOR
GUH	GAS UNIT HEATER
HC	HEATING COIL
HP	HEAT PUMP
HRP	HEAT RECOVERY PUMP
HU	HUMIDIFIER
HUH	HOT WATER UNIT HEATER
HWP	HOT WATER PUMP
HTX	HEAT EXCHANGER
ICF	INDUSTRIAL CEILING FAN
IR	INFRARED HEATER
L	LOUVER
MAU	MAKE-UP AIR UNIT
P	PUMP
PWP	PROCESS WATER PUMP
RF	RETURN FAN
RG	RETURN GRILLE
RR	REGISTER
RTU	ROOFTOP UNIT
SD	SUCTION DIFFUSER
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
ST	STEAM TRAP
SUH	STEAM UNIT HEATER
TCP	TEMPERATURE CONTROL PANEL
TG	TRANSFER GRILLE
UH	UNIT HEATER
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME BOX
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
WSHP	WATER SOURCE HEAT PUMP
XT	EXPANSION TANK

ELECTRICAL ABBREVIATIONS

A	AMPERE
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CAT	CATALOG
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CL	CENTERLINE
CLG	CEILING
COL	COLUMN
CT	CURRENT TRANSFORMER
CTE	CONNECT TO EXISTING
CU	COPPER
CUH	CABINET UNIT HEATER
D	DEDICATED
DC	DIRECT CURRENT
DISC	DISCONNECT
DWG	DRAWING
E	EMERGENCY
EC	ELECTRICAL CONTRACTOR
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EHH	ELECTRICAL HANDHOLE
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE DEVICE
EWC	ELECTRIC WATER COOLER
EX	EXISTING
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPERES
FPCP	FIRE PUMP CONTROL PANEL
FR	FIRE RETARDANT
FT	FEET
FDA	FOOD AND DRUG ADMINISTRATION
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G	GROUND
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION (EQUIPMENT)
GFCI	GROUND FAULT CKT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
HACR	HEATING AND AIR CONDITIONING RATED
HP	HORSEPOWER
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KCMIL	ONE THOUSAND CIRCULAR MILS
KO	KNOCKOUT
KVA	KILOVOLT AMPERES
KVAR	KILOVOLT AMPERES REACTIVE
KW	KILOWATT
LP	LIGHTING PANEL
LTG	LIGHTING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION
MC	METAL CLAD
MCC	MOTOR CONTROL CENTER
MCB	MAIN CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCM	THOUSAND CIRCULAR MILS
MCP	MOTOR CIRCUIT PROTECTOR
MDP	MAIN DISTRIBUTION PANELBOARD
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MO	MOTOR OPERATED
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
MW	MICROWAVE OR MEGAWATT
N	NEUTRAL
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NAC	NOTIFICATION APPLIANCE CIRCUIT PANEL
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NM	NONMETALLIC
NO	NORMALLY OPEN
NSF	NATIONAL SANITARY FOUNDATION
NTS	NOT TO SCALE
OCB	OIL CIRCUIT BREAKER
OL	OVERLOAD
OIP	OPERATOR INTERFACE PANEL
OT	OVERTEMP
PR	PAIR
P	POLE
PB	PULL BOX
PC	PULL CORD
PH	PH SENSOR
ø	PHASE
PNL	PANELBOARD
PP	POWER PANEL
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PTZ	PAN, TILT, ZOOM CAMERA
PVC	POLYVINYL CHLORIDE
PWR	POWER
RSC	RIGID GALVANIZED STEEL CONDUIT
RTS	REMOTE TEST SWITCH
RVNR	REDUCED VOLTAGE NON-REVERSING
RVSS	REDUCED VOLTAGE SOLID STATE
SC	SHORT CIRCUIT
SCADA	SUPERVISORY CONTROL AND DATA ACQUISIT
SCC	SUPERVISORY CONTROL CENTER
SE	SERVICE ENTRANCE
SEC	SECONDARY
SH	SHIELDED
SPD	SURGE PROTECTION DEVICE
SS	STAINLESS STEEL
STP	SHIELDED TWISTED PAIR
SV	SOLENOID VALVE
SW	SWITCH
SWBD	SWITCHBOARD
TEL	TELEPHONE
TS2W	TWO SPEED TWO WINDING
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE OR WATT
WD	HIGH PRESSURE WASH DOWN
WL	WET LOCATION
WP	WEATHERPROOF
XFMR	TRANSFORMER

INSTRUMENT-SPECIFIC ELECTRICAL ABBREVIATIONS

A	AIR FLOW
ALT	ALTERNATOR
BF	BUILDING FLOODING
C	CAPACITANCE
CA	CHLORINE ANALYZER
CH4	METHANE
CON	CONDUCTANCE
CS-1	CONSTANT (SINGLE) SPEED
CS-2	CONSTANT (TWO) SPEED
D	DENSITY
DISC	DISCONNECT SWITCH
DO	DISSOLVED OXYGEN
DOU	DOWN-OFF-UP SELECTOR SWITCH
DP	DIFFERENTIAL PRESSURE
ESPB	EMERGENCY STOP PUSHBUTTON
ESPC	EMERGENCY STOP PULLCORD
ETM	ELAPSED TIME METER
F	BALL FLOAT
FL	FLANGE-MOUNTED
FS	FAST-SLOW SELECTOR SWITCH
FOR	FORWARD-OFF-REVERSE SELECTOR SWITCH
GD	GAS DETECTION
H	HORN
H2S	HYDROGEN SULFIDE
HLOA	HIGH-LOW-OFF-AUTO SELECTOR SWITCH
HLOR	HIGH-LOW-OFF-REVERSE SELECTOR SWITCH
HOA	HAND-OFF-AUTO SELECTOR SWITCH
L	LIMIT
LOR	LOCAL-OFF-REMOTE SELECTOR SWITCH
LOS	LOCKOUT STOP
M	MAGNETIC
MST	MOISTURE
MY	MOTOR PROTECTION RELAY
O/C	OVERCURRENT
O/L	OVERLOAD
O/T	OVERTEMPERATURE
OC	OPEN-CLOSE SELECTOR SWITCH
OCA	OPEN-CLOSE-AUTO SELECTOR SWITCH
OO	ON-OFF SELECTOR SWITCH
OP	OXYGEN PURITY
ORP	OXIDATION REDUCTION POTENTIAL
P	PADDLE
pH	pH
PO4	ORTHOPHOSPHATE
POT	POTENTIOMETER
PR	PROXIMITY
R	RADAR
ROF	REVERSE-OFF-FORWARD SELECTOR SWITCH
RST	RESET PUSHBUTTON
RTD	RESISTANCE TEMPERATURE DETECTOR
S	SUBMERSIBLE
SF	SEAL FAIL
SIL	SILENCE
SS	START-STOP SELECTOR SWITCH
ST	START PUSHBUTTON
STP	STOP PUSHBUTTON
T	THERMAL
TAB	TRANSDUCER-AUTO-BACKUP FLOATS SELECTOR SWITCH
TH	THERMOCOUPLE
TM	THERMAL MASS
TRB	TURBIDITY
TSS	TOTAL SUSPENDED SOLIDS
U	ULTRASONIC
V	VIBRATING FORK
VFD	VARIABLE FREQUENCY DRIVE
VM	VENTILATION MONITORING
VS	VARIABLE SPEED
YW	LEAKAGE SENSOR

NO.	REVISIONS	DATE:
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STANDARD ABBREVIATIONS

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

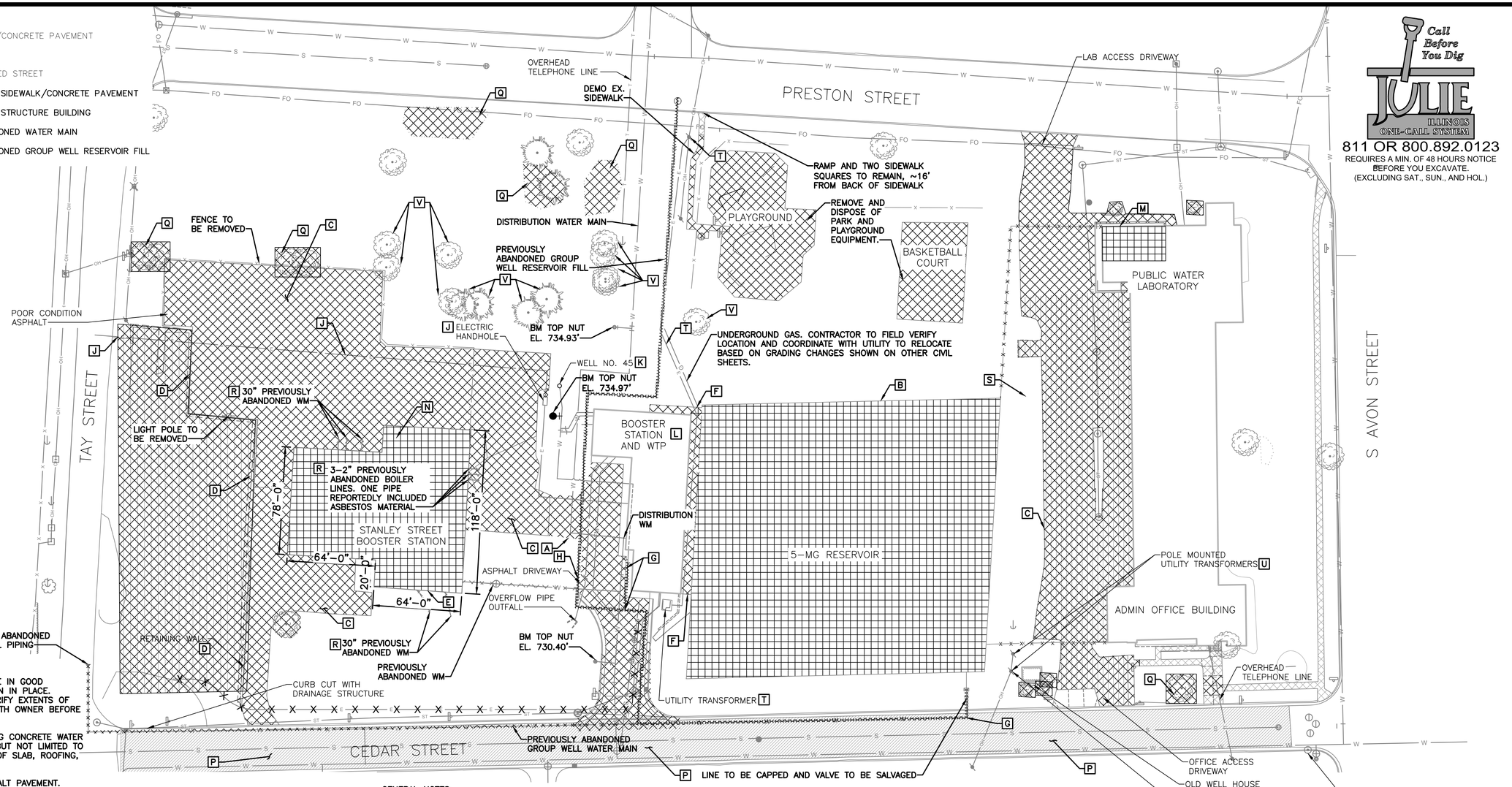
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SHEET 5
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LEGEND:

- EXISTING SIDEWALK/CONCRETE PAVEMENT
- EXISTING GRAVEL
- EXISTING BRICK LINED STREET
- DEMOLISH EXISTING SIDEWALK/CONCRETE PAVEMENT
- DEMOLISH EXISTING STRUCTURE BUILDING
- PREVIOUSLY ABANDONED WATER MAIN
- PREVIOUSLY ABANDONED GROUP WELL RESERVOIR FILL



SITE DEMOLITION PLAN

0 10' 20' 40' 80'

N

DEMOLITION KEY NOTES:

- A EXISTING ASPHALT DRIVE IN GOOD CONDITION IS TO REMAIN IN PLACE. CONTRACTOR SHALL VERIFY EXTENTS OF ASPHALT DEMOLITION WITH OWNER BEFORE STARTING.
- B REMOVE ENTIRE EXISTING CONCRETE WATER RESERVOIR INCLUDING BUT NOT LIMITED TO BASE SLAB, WALLS, ROOF SLAB, ROOFING, AND FENCING.
- C REMOVE EXISTING ASPHALT PAVEMENT.
- D REMOVE EXISTING CONCRETE RETAINING WALL AND FENCE.
- E REMOVE BOOSTER STATION MASONRY, CONCRETE BUILDING, AND TANKS IN ENTIRETY ABOVE AND BELOW GROUND. SALVAGE ENOUGH BRICK TO ACCOMMODATE REPAIR WORK AND PLANTER WORK FOR THE BUILDING 90 ADMINISTRATION BUILDING AS PART OF THE LUMP SUM BASE BID. REMOVE AND DISPOSE OF ALL BURIED PIPING ENTERING AND LEAVING STRUCTURE AS SPECIFIED. MIN. 24"ø WATERMAIN AND STEAM PIPING TO BE REMOVED IS ANTICIPATED ON BOTH THE NORTH AND SOUTH SIDES OF THE BUILDING.
- F REMOVE SECTION OF CONCRETE.
- G ABANDON WATERMAIN IN PLACE. CAP END OF PIPE, TYP.
- H DEMOLISH AND REMOVE GROUP WELL WATER PIPING TO COMPLETE NEW RESERVOIR SITE PIPING. CAP AND ABANDON PIPE NOT NEEDED TO BE REMOVED.
- J REMOVE SPARE CONDUIT FROM PROPERTY LINE TO HANDHOLE. UNUSED OPENING IN HANDHOLE SHALL BE PLUGGED. CONDUIT AT THE ROADWAY SHALL BE ABANDONED AND CAPPED BELOW GRADE.
- K PROTECT EXISTING WELL HEAD AND UNDERGROUND ELECTRIC TO WELL HEAD DURING ALL CONSTRUCTION AND DEMOLITION.
- L PROTECT EXISTING BOOSTER STATION AND WTP BUILDINGS DURING ALL CONSTRUCTION AND DEMOLITION.
- M SEE AS SHEETS FOR DETAILS ON BUILDING DEMOLITION.
- N SALVAGE, CLEAN, SORT, AND STACK ON PALLETS ALL BRICK FROM THE OLD STANLEY STREET BOOSTER STATION. THIS WORK IS INCLUDED IN BID ALTERNATIVE NO. 3.
- P CONTRACTOR SHALL PROTECT EXISTING BRICK LINED STREET. ANY DAMAGE TO THE EXISTING STREET SHALL BE CORRECTED. THIS MAY INVOLVE SALVAGING AND REPLACING EXISTING BRICKS OR PROVIDING NEW BRICKS TO MATCH.
- Q REMOVE AND DISPOSE OF TREE/BUSH.
- R REMOVE AND DISPOSE OF PREVIOUSLY ABANDONED PIPING TO COMPLETE BUILDING DEMOLITION.
- S CONTRACTOR SHALL PROTECT EXISTING FOUNDATIONS OF STRUCTURES TO REMAIN FROM UNDERMINING DURING DEMOLITION OF RESERVOIR. PROVIDE TEMPORARY SHORING OR OTHER PROTECTIONS AS REQUIRED.
- T CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR REMOVAL OF PRIMARY SERVICE CABLES AND CONDUIT FROM UTILITY TRANSFORMER BACK TO TERMINAL POLE AS A RESULT OF GRADING CHANGES IN THIS AREA.
- U GUY WIRE FOR POLE-MOUNTED UTILITY TRANSFORMER STRUCTURE SHALL BE RELOCATED TO ACCOMMODATE NEW PARKING AREA ENTRANCE. COORDINATE RELOCATION OF GUY WIRE WITH ELECTRIC UTILITY COMPANY.
- V TREE PROTECTION AREAS. PROVIDE TREE PROTECTION AREAS AS SPECIFIED AND DETAILED INCLUDING FENCING AND SIGNAGE. PRIOR TO ANY DEMOLITION OR CONSTRUCTION WORK BEING COMPLETED SURROUNDING TREES, CONTRACTOR SHALL PROVIDE TREE DEMOLITION PLAN AS SPECIFIED.

GENERAL NOTES:

1. LOCATIONS AND ELEVATIONS OF EXISTING WELLS, PIPING, STRUCTURES, ELECTRICAL SERVICES, AND OTHER SITE FEATURES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY. CONTRACTOR SHALL FIELD VERIFY DEPTHS AND LOCATIONS OF EXISTING PIPING PRIOR TO INSTALLING NEW PIPING THAT CONNECTS TO EXISTING.
2. ALL EXISTING ITEMS THAT ARE TO REMAIN IN PLACE SHALL BE PROTECTED BY THE CONTRACTOR DURING ALL DEMOLITION ACTIVITIES.
3. THE EXISTING POWER TO THE TRANSFORMER LOCATED ON THE SOUTH END OF THE EXISTING BOOSTER STATION IS ROUTED BETWEEN THE BOOSTER STATION AND RESERVOIR. CONTRACTOR SHALL AVOID DAMAGING THE POWER FEED TO THE RESERVOIR DURING DEMOLITION.
4. THE EXISTING INFORMATION SHOWN ON THIS DRAWING IS FROM EXISTING RECORD PLANS AND A PARTIAL SURVEY OF THE SITE. IT DOES NOT NECESSARILY ACCURATELY REFLECT ALL EXISTING SURFACE AND SUBSURFACE FEATURES AT THE PROJECT SITE. CONTRACTOR SHALL VISIT THE PROJECT SITE AND BECOME FAMILIAR WITH ACTUAL CONDITIONS AT THE SITE. THERE ARE DRAWINGS OF THE ORIGINAL CONSTRUCTION AVAILABLE FOR REVIEW AS NEEDED.
5. SILT FENCE SHALL BE IN PLACE PRIOR TO THE START OF ANY DEMOLITION OR REMOVAL WORK ON THE SITE. THE PLAN DOES NOT NECESSARILY SHOW ALL SILT FENCES THAT WILL BE REQUIRED TO PREVENT THE RUNOFF OF SEDIMENT-LADEN STORM WATER INTO WATERWAYS. SILT FENCE SHALL BE PROVIDED AT OTHER LOCATIONS WHERE REQUIRED BY THE SWP3 PERMIT.
6. REFER TO THE CONSTRUCTION SEQUENCE IN SECTION 01 11 00 OF THE SPECIFICATIONS FOR GENERAL SEQUENCING OF THE WORK.
7. SEE SPECIFICATION SECTION 02 41 00 – DEMOLITION FOR A DESCRIPTION OF ANY ADDITIONAL REQUIREMENTS FOR ITEMS TO BE DEMOLISHED, ABANDONED, OR REMOVED. SEE SPECIFICATION SECTION 31 23 00 – EXCAVATION, FILL, BACKFILL AND GRADING FOR EXCAVATION AND BACKFILL REQUIREMENTS. ALL EXISTING STRUCTURES SHALL BE BACKFILLED WITH COMPACTED FILL WITH 95% COMPACTION, AS SPECIFIED. IN GENERAL, ONLY THE STRUCTURES THAT ARE CALLED OUT ON THE SITE DEMOLITION PLAN BY NOTE ARE INTENDED TO BE REMOVED, DEMOLISHED, OR ABANDONED IN ACCORDANCE WITH THE SPECIFICATIONS.
8. UPON COMPLETION OF DEMOLITION WORK, THE SITE SHALL BE CUT, FILLED, AND ROUGH GRADED AS REQUIRED TO CREATE A FINISHED GROUND SURFACE THAT IS GENERALLY UNIFORM (FREE OF HILLS AND VALLEYS) AND HAS ADEQUATE SLOPE TO DRAIN. THE GROUND SURFACE SHALL BE GRADED TO DRAIN AS SHOWN ON NEW GRADING PLAN.
9. AREAS OF SITE THAT ARE DISTURBED BY CONTRACTOR INCLUDING BUT NOT LIMITED TO: REMOVAL OF STRUCTURES, SIDEWALKS, PIPES, AND OTHER MISCELLANEOUS ITEMS AND CONSTRUCTION TRAFFIC SHALL BE BACKFILLED, FINISH GRADED, TOPSOILED AND SEEDED IN ACCORDANCE WITH DIVISION 2 OF SPECIFICATIONS.
10. TREES AND VEGETATION ON THE PROPERTY SHALL BE PROTECTED UNLESS DESIGNATED TO BE REMOVED.
11. AREAS WHERE GRADED OR STOCKPILED EARTH WILL REMAIN EXPOSED FOR MORE THAN FOURTEEN DAYS SHALL BE PROTECTED FROM EROSION BY TEMPORARY SEEDING. PROVIDE SILT FENCE SURROUNDING AREAS OF STOCKPILED SOIL.
12. COMPACTED FILL FOR BACKFILL OF DEMOLISHED STRUCTURES SHALL BE AS NOTED ON THESE DRAWINGS AND COMPACTED TO 95% OF MODIFIED PROCTOR IN ACCORDANCE WITH THE SPECIFICATIONS.
13. CONCRETE TO BE DEMOLISHED SHALL BE REMOVED FROM SITE UNLESS IT MEETS REQUIREMENTS OF COMPACTED FILL SPECIFICATIONS. ALL REMOVED REINFORCING IS TO BE REMOVED FROM SITE.
14. PAVEMENT AND SIDEWALK AREAS SHOWN FOR REMOVAL ARE APPROXIMATE. CONTRACTOR SHALL REMOVE ALL PAVEMENT AND SIDEWALK WITHIN THE PAVEMENT DEMOLITION AREA OF THE SITE.
15. DEMOLISH STRUCTURES AS INDICATED ON DRAWINGS AND IN ACCORDANCE WITH SECTION 02 41 00. NOT ALL MINOR STRUCTURES ARE SHOWN. ANY STRUCTURES NOT SHOWN SHALL BE REMOVED ENTIRELY. ALL EQUIPMENT, PIPING SYSTEMS, ELECTRICAL ITEMS, AND ALL OTHER ITEMS SHALL BE REMOVED ENTIRELY FROM WITHIN TANKS AND BUILDINGS.
16. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIALS ASSOCIATED WITH THE ITEMS BEING REMOVED AS SHOWN ON THIS DRAWING, AS WELL AS ALL EXISTING ELECTRICAL DEVICES, MATERIALS, EQUIPMENT, WIRING, AND EXPOSED CONDUITS NOT BEING REUSED. CONCEALED CONDUITS SHALL BE CAPPED AND ABANDONED IN PLACE.
17. SEE SECTION 02 41 20 – DEMOLITION FOR ADDITIONAL INFORMATION ON HAZARDOUS MATERIAL REPORTS AND REQUIREMENTS FOR CONTRACTOR TO REMOVE HAZARDOUS MATERIALS.
18. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER IN ADVANCE OF ALL ACTIVITIES THAT MAY REQUIRE A WATER TREATMENT PLANT SHUT DOWN. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS (DIVISION 1).
19. CONTRACTOR TO COORDINATE AND IDENTIFY ITEMS FOR DEMOLITION WITH OWNER PRIOR TO DEMOLITION.
20. NO TREES MAY BE REMOVED UNLESS SHOWN TO BE REMOVED ON DRAWINGS OR APPROVED BY OWNER.
21. CONTRACTOR SHALL OBTAIN CITY OF ROCKFORD DEMOLITION PERMIT PRIOR TO STARTING WORK.

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SITE DEMOLITION PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

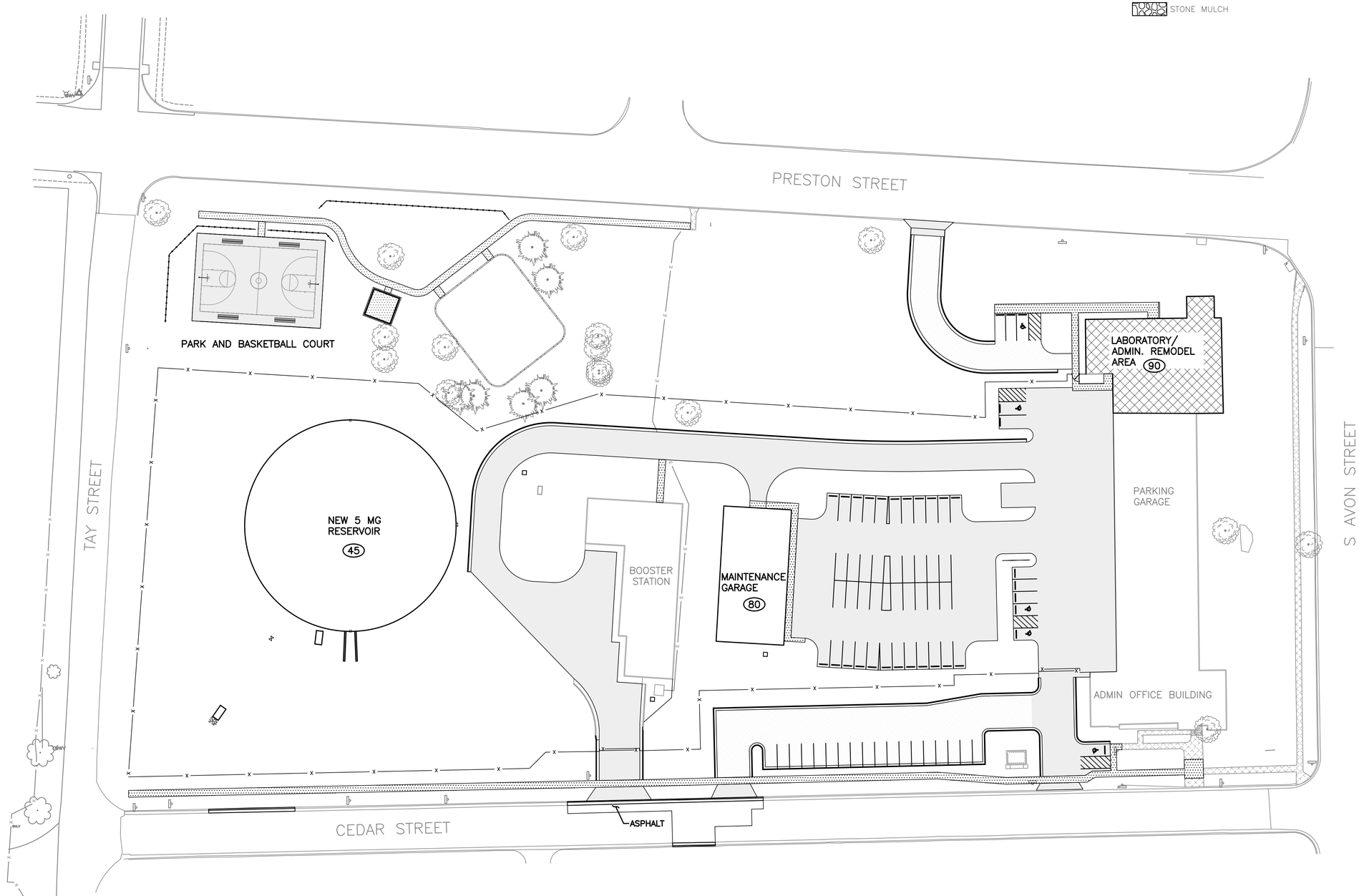
PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 6
01-DC1.01

LEGEND:

- EXISTING SIDEWALK/CONCRETE PAVEMENT
- EXISTING GRAVEL
- NEW ASPHALT PAVEMENT
- NEW SIDEWALK/CONCRETE PAVEMENT
- EROSION CONTROL MAT
- STONE MULCH



OVERALL SITE PLAN

0 10' 20' 40' 80'

N

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OVERALL SITE PLAN

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WINNEBAGO COUNTY, ILLINOIS

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RYAN WOOD

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LEGEND:

- EXISTING SIDEWALK/CONCRETE PAVEMENT
- EXISTING GRAVEL
- NEW ASPHALT PAVEMENT
- NEW SIDEWALK/CONCRETE PAVEMENT
- EROSION CONTROL MAT
- STONE MULCH

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE TEMPORARY WAY FINDING SIGNS FOR PUBLIC LAB DELIVERY AND WATER UTILITY BUILDING DELIVERIES, AND A RELOCATED PARK AREA. ADJUST SIGN LOCATIONS BASED ON CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE SIGNS FOR OWNER APPROVAL.
2. CONTRACTOR SHALL PROTECT TREES TO REMAIN THROUGHOUT PROJECT DURATION. CONTRACTOR MAY NOT STAGE ANY EQUIPMENT OR MATERIALS WITHIN THE DRIP LINE OF THE TREES SCHEDULED TO REMAIN.

KEY NOTES:

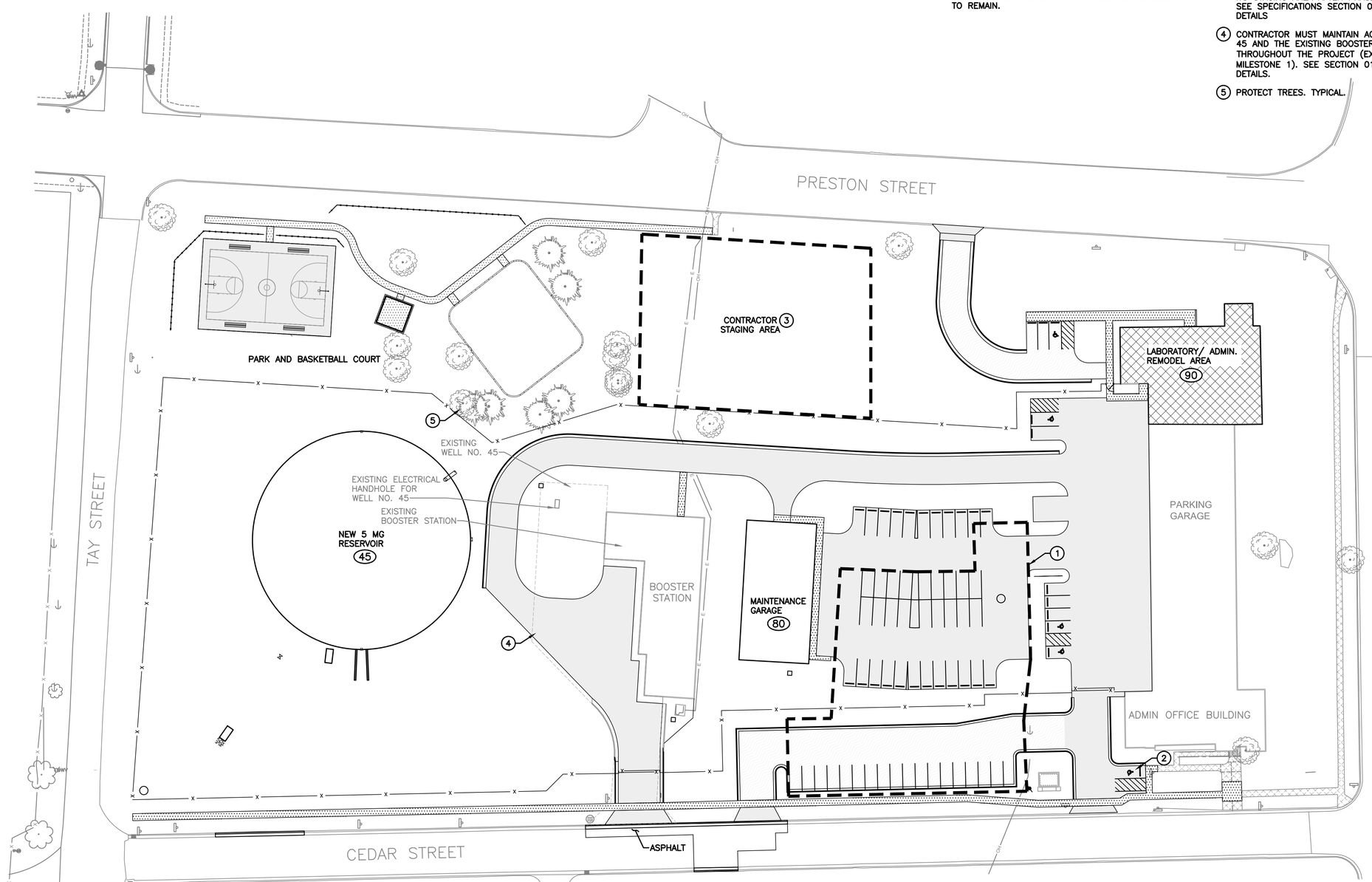
(1) CONTRACTOR SHALL MAINTAIN OWNER PARKING AS SPECIFIED IN SECTION 01 11 00, 1.04.

(2) DURING PHASE 3 AND 4 OF THE CONSTRUCTION, A MINIMUM OF 2 PARKING STALLS MUST BE MAINTAINED AT THIS LOCATION FOR THE DROP OFF OF PUBLIC WATER QUALITY LAB TEST. SEE SPECIFICATION SECTION 01 11 00 FOR MORE DETAILS.

(3) CONTRACTOR MAY USE DEMOLISHED PARK AREA AS ITS STAGING AREA AFTER PHASE 2 OF THE PROJECT. SEE SPECIFICATIONS SECTION 01 11 00 FOR MORE DETAILS

(4) CONTRACTOR MUST MAINTAIN ACCESS TO WELL NO. 45 AND THE EXISTING BOOSTER STATION THROUGHOUT THE PROJECT (EXCEPT AS ALLOWED IN MILESTONE 1). SEE SECTION 01 11 00 FOR MORE DETAILS.

(5) PROTECT TREES. TYPICAL.



OVERALL SITE PLAN

0 10' 20' 40' 80'

N

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STAGING PLAN

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CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

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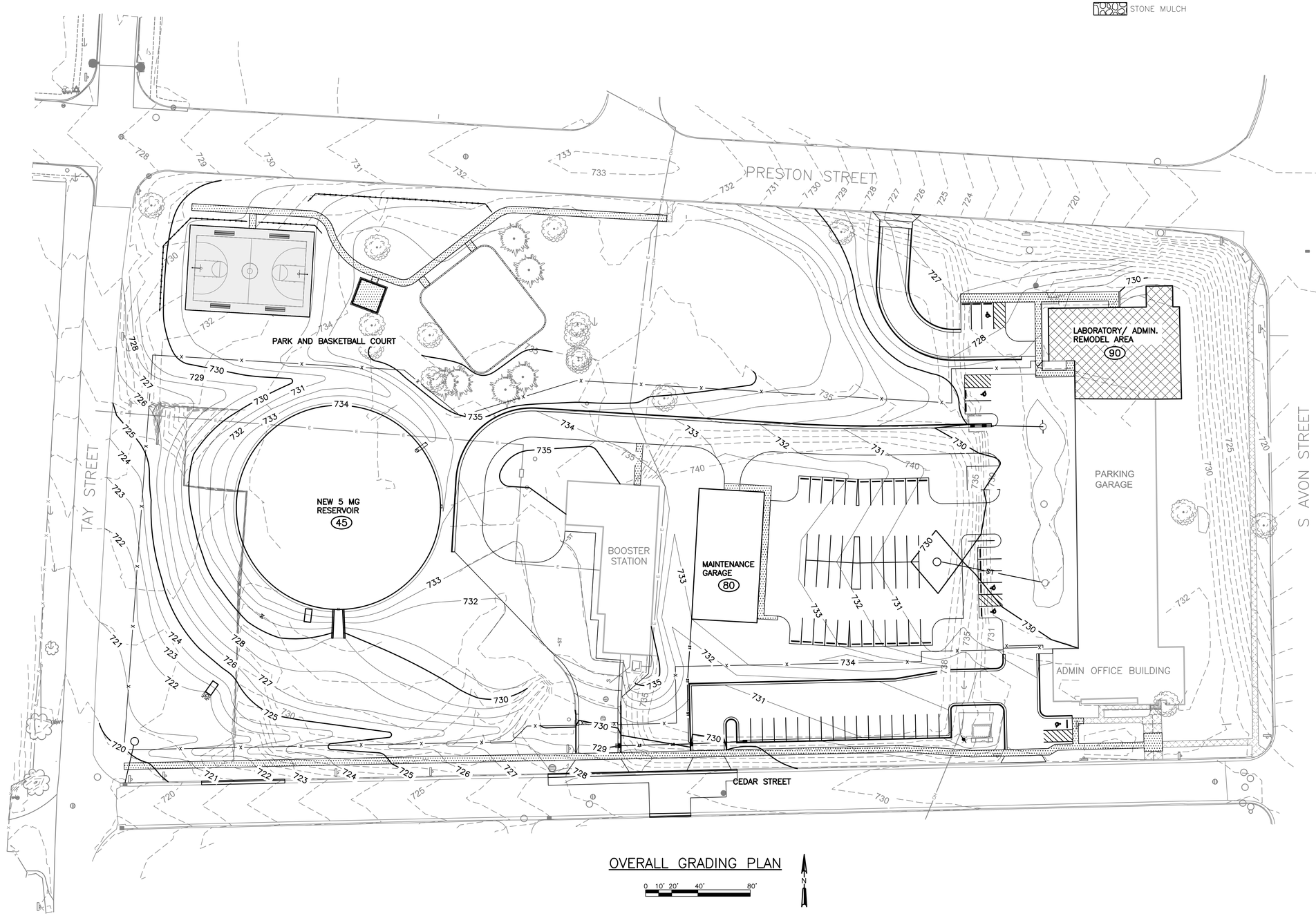
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SHEET 8
01-C1.02

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LEGEND:

- EXISTING SIDEWALK/CONCRETE PAVEMENT
- EXISTING GRAVEL
- NEW ASPHALT PAVEMENT
- NEW SIDEWALK/CONCRETE PAVEMENT
- EROSION CONTROL MAT
- STONE MULCH



OVERALL GRADING PLAN

0 10' 20' 40' 80'

N

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OVERALL GRADING PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

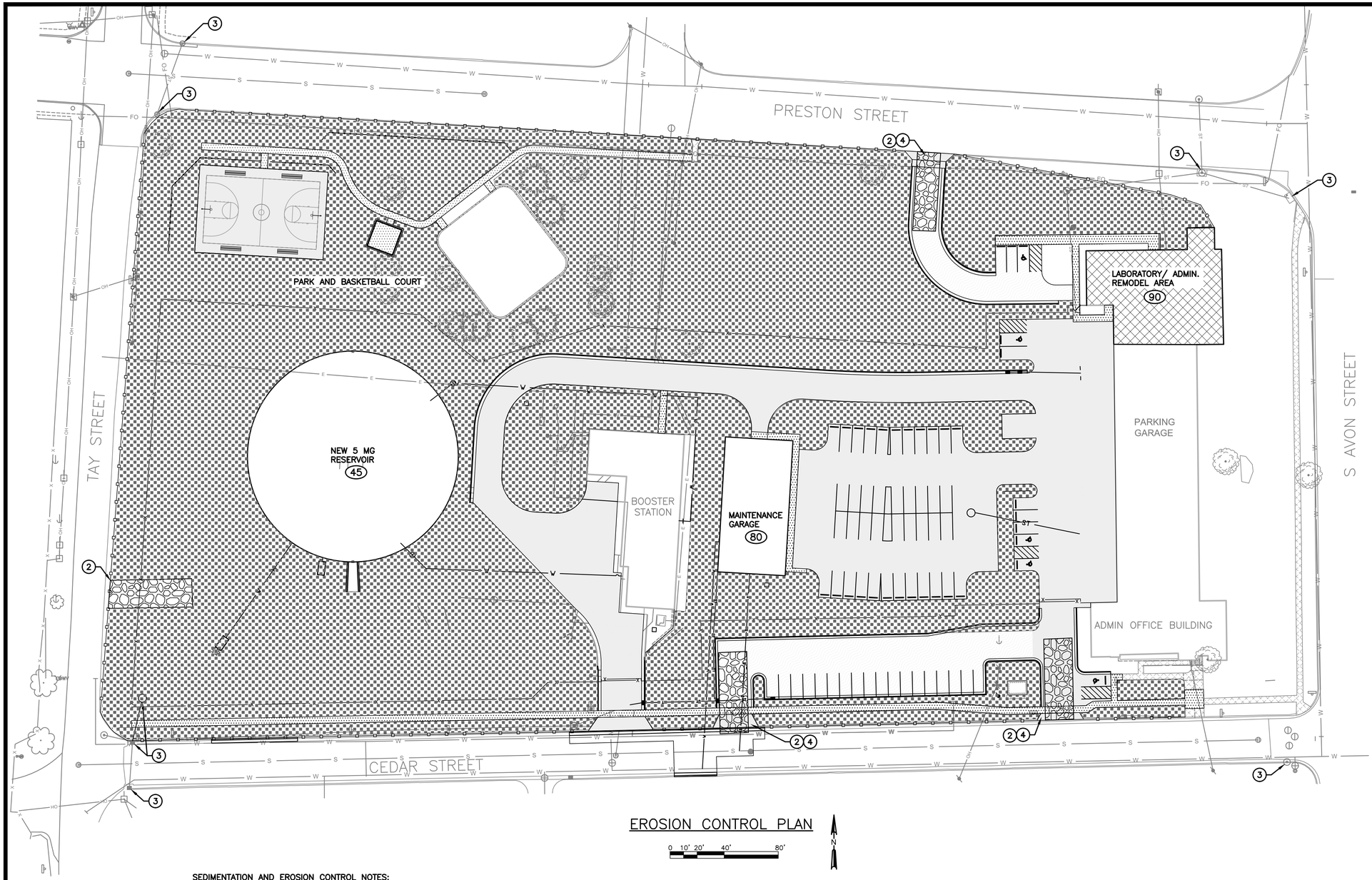
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PROJECT MGR.
RYAN WOOD

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EROSION CONTROL PLAN

0 10' 20' 40' 80'

N

GENERAL NOTES:

1. SILT FENCE SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE.
2. RESTORE ALL DISTURBED AREAS AS SPECIFIED.
3. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS ADDITIONAL MEASURES MAY BE REQUIRED AS REQUESTED BY ENGINEER OR GOVERNING AGENCY.
4. ALL PROPOSED EROSION CONTROL MEASURES AND STRUCTURES MUST BE INSPECTED AT LEAST WEEKLY AND WHENEVER 0.5 INCHES OF RAIN IS PRODUCED WITHIN 24 HOURS. NECESSARY MAINTENANCE SHALL FOLLOW THE INSPECTIONS WITHIN 24 HOURS.
5. FOR THE FIRST SIX WEEKS AFTER INITIAL STABILIZATION OF A DISTURBED AREA, THE CONTRACTOR SHALL MAKE PROVISIONS FOR WATERING WHENEVER MORE THAN 7 DAYS OF DRY WEATHER ELAPSE.
6. GRADE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AS PROPOSED ON SHEET C1.1.
7. CLEAN–UP OF ALL CONCRETE POURS SHALL BE LOCATED IN CONCRETE WASHOUT STATION. REMOVE AND DISPOSE OF WASHOUT STATION PRIOR TO SUBSTANTIAL COMPLETION.
8. PROVIDE CONCRETE WASHOUT STATION ACCORDING TO LOCATION ON SITE TO BE PROPOSED BY CONTRACTOR AND REVIEWED BY OWNER.

KEY NOTES:

1. SILT FENCE (E / 01–C5.01).
2. STABILIZED CONSTRUCTION ENTRANCE (B / 01–C5.02).
3. INLET PROTECTION (D / 01–C5.02).
4. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CITY OF ROCKFORD DRIVEWAY PERMIT, TYPICAL ALL DRIVEWAY ENTRANCES.

SEDIMENTATION AND EROSION CONTROL NOTES:

1. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
2. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
3. ALL DISTURBED AREAS NOT INTENDED TO BE WORKED ON FOR 14 DAYS SHALL BE TEMPORARILY STABILIZED WITHIN 7 DAYS OF THE LAST ACTIVITY.
4. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR REDISTURBANCE.
5. AREAS OR EMBANKMENTS HAVING SLOPES EQUAL TO 3H:1V, SHALL BE STABILIZED WITH SOD, MAT OR BLANKET IN COMBINATION WITH SEEDING.
6. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
7. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
8. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED.
9. A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURE) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT–OF–WAY, STREET, ALLEY OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT–OF–WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
10. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS.
11. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE.
12. THE EROSION CONTROL MEASURES INDICATED ON THE DRAWINGS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS REQUESTED BY THE ENGINEER OR GOVERNING AGENCY.
13. PROVIDE CONSTRUCTION INLET PROTECTION AT ALL EXISTING INLETS ON SITE AND WITHIN THE IMMEDIATE AREA SURROUNDING THE SITE WITH CATCH ALL DRAIN SYSTEM INLET PROTECTION AS MANUFACTURED BY PRICE AND COMPANY, OR EQUAL.
14. WHERE SEDIMENT HAS BEEN TRACKED–OUT FROM THE SITE ONTO THE SURFACE OF OFF–SITE STREETS, OTHER PAVED AREAS, AND SIDEWALKS, CONTRACTOR SHALL REMOVE THE DEPOSITED SEDIMENT BY THE END OF THE SAME WORK DAY IN WHICH THE TRACK–OUT OCCURS OR BY THE END OF THE NEXT WORK DAY IF TRACK–OUT OCCURS ON A NON–WORK DAY. CONTRACTOR MUST REMOVE THE TRACK–OUT BY SWEEPING, SHOVELING, OR VACUUMING THESE SURFACES, OR BY USING OTHER SIMILARLY EFFECTIVE MEANS OF SEDIMENT REMOVAL. CONTRACTOR IS PROHIBITED FROM HOSING OR SWEEPING TRACKED–OUT SEDIMENT INTO ANY STORMWATER CONVEYANCE (UNLESS IT IS CONNECTED TO A SEDIMENT BASIN, SEDIMENT TRAP, OR SIMILARLY EFFECTIVE CONTROL), STORM DRAIN INLET, OR SURFACE WATER.

LEGEND:

- EXISTING SIDEWALK/CONCRETE PAVEMENT
- EXISTING GRAVEL
- NEW ASPHALT PAVEMENT
- NEW SIDEWALK/CONCRETE PAVEMENT
- EROSION CONTROL MAT
- STONE MULCH

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EROSION CONTROL PLAN

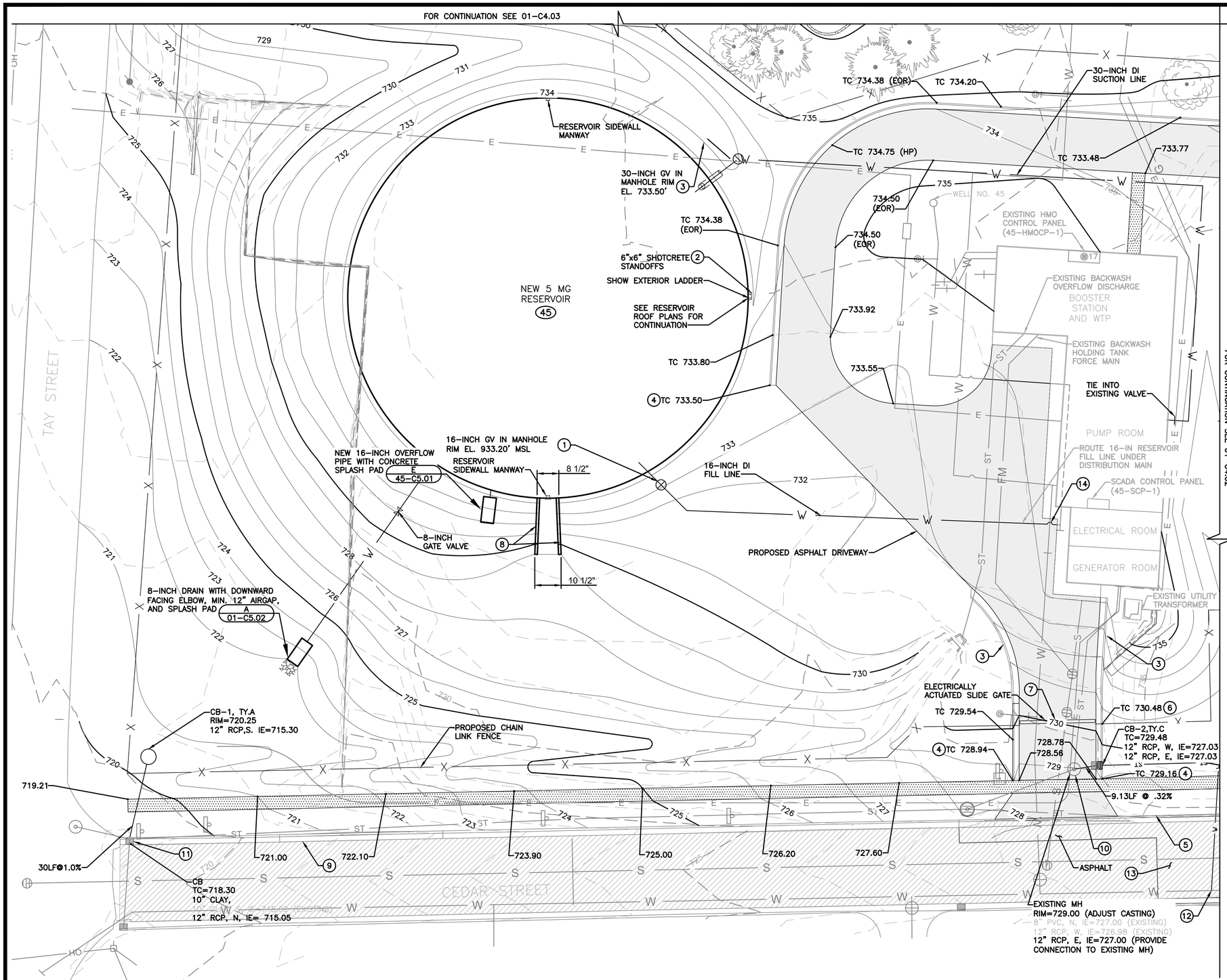
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037
PROJECT MGR. RYAN WOOD

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SHEET 10
01-C1.04

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ENLARGED SITE PLAN – 1 (RESERVOIR)

0 5' 10' 20' 40'

GENERAL NOTES:

1. THESE DRAWINGS DO NOT INDICATE ALL PIPE FITTINGS REQUIRED TO INSTALL YARD PIPING AS SHOWN. CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND PROVIDING ALL REQUIRED FITTINGS.
2. LOCATIONS AND ELEVATIONS OF EXISTING PIPING, BUILDINGS, GAS SERVICE, ELECTRICAL SERVICE, AND OTHER SITE FEATURES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY. REFER TO DEMO DRAWINGS. CONTRACTOR SHALL FIELD VERIFY DEPTHS AND LOCATIONS OF EXISTING PIPING PRIOR TO INSTALLING NEW PIPING THAT CONNECTS TO EXISTING.
3. PROVIDE MINIMUM 6'-0" COVER OVER ALL NEW PIPING OR PROVIDE INSULATION.
4. CONTRACTOR SHALL CONTACT APPROPRIATE AGENCIES FOR UTILITY LOCATIONS.
5. MAINTAIN 10 FEET HORIZONTAL DISTANCE AND 18 INCHES VERTICAL DISTANCE FROM WATER MAIN TO STORM SEWER.
6. AT PIPE CROSSINGS ON ALL SCHEMATIC AND PIPING PLANS, THE PIPE THAT IS BROKEN DOES NOT NECESSARILY DESIGNATE THE RELATIVE LOCATION OF THE PIPES WITH RESPECT TO EACH OTHER.
7. CONTRACTOR SHALL REPLACE PAVEMENT REMOVED OR DAMAGED DURING CONSTRUCTION THAT IS NOT DESIGNATED FOR REMOVAL. SAWCUT PAVEMENT AT JOINT.

KEY NOTES:

1. PROVIDE 42-INCH OPENING WITH NEENAH 1740E FRAME, RIM, AND LID; 6663-E1H FRAME AND LID, OR EQUAL.
2. PROVIDE 6"X6" SHOTCRETE STANDOFFS IMMEDIATELY NORTH OF LADDER FOR CONDUIT ROUTING. STANDOFFS SHALL START 4 FEET ABOVE GRADE AND CONTINUE VERTICALLY EVERY 8 FEET.
3. PROTECT EXISTING DRIVEWAY CURB AND GUTTER
4. 18" TAPERED CURB HEAD.
5. RESET EXISTING INLET CASTING AND REPLACE ADJUSTING RINGS.
6. REMOVE A PORTION OF THE CONCRETE CURB HEAD TO ALLOW FOR THE SLIDING GATE TO OPERATE FOR A BOTTOM ELEVATION OF THE GATE OF 730.25'.
7. 38-FT LONG SLIDE GATE.
8. MODULAR BLOCK RETAINING WALL.
9. SALVAGE AND REPLACE EXISTING STREET BRICKS DISTURBED BY CONSTRUCTION.
10. PROVIDE 12" RCP CONNECTION TO EXISTING STORM MANHOLE AND ADJUST CASTING TO FINISHED ASPHALT SURFACE.
11. PROVIDE 12" RCP CONNECTION TO EXISTING STORM INLET STRUCTURE.
12. PROVIDE WATER SERVICE CONNECTION TO EXISTING WATER MAIN.
13. SALVAGE AND REPLACE EXISTING BRICKS OR PROVIDE NEW BRICKS TO MATCH.
14. ROUTE 16" DIAMETER RESERVOIR FILL LINE UNDER 24" DISTRIBUTION MAIN AND TIE INTO EXISTING 12" RESERVOIR FILL LINE. PROVIDE 16" BY 12" REDUCER IMMEDIATELY UPSTREAM OF TIE-IN LOCATION.
15. LEAN CONCRETE FOOTING EXTENSION REQUIRED IN THIS AREA AS SHOWN IN 2 / 45-ASM3.01.

LEGEND:

- HEAVY DUTY ASPHALT PAVEMENT (D / 01-C5.01)
- EXISTING SIDEWALK/CONCRETE PAVEMENT
- EXISTING BRICK LINED STREET
- EROSION CONTROL MAT
- STONE MULCH
- EXISTING ASPHALT PAVEMENT
- NEW SIDEWALK
- GRAVEL

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ENLARGED SITE PLAN - 1

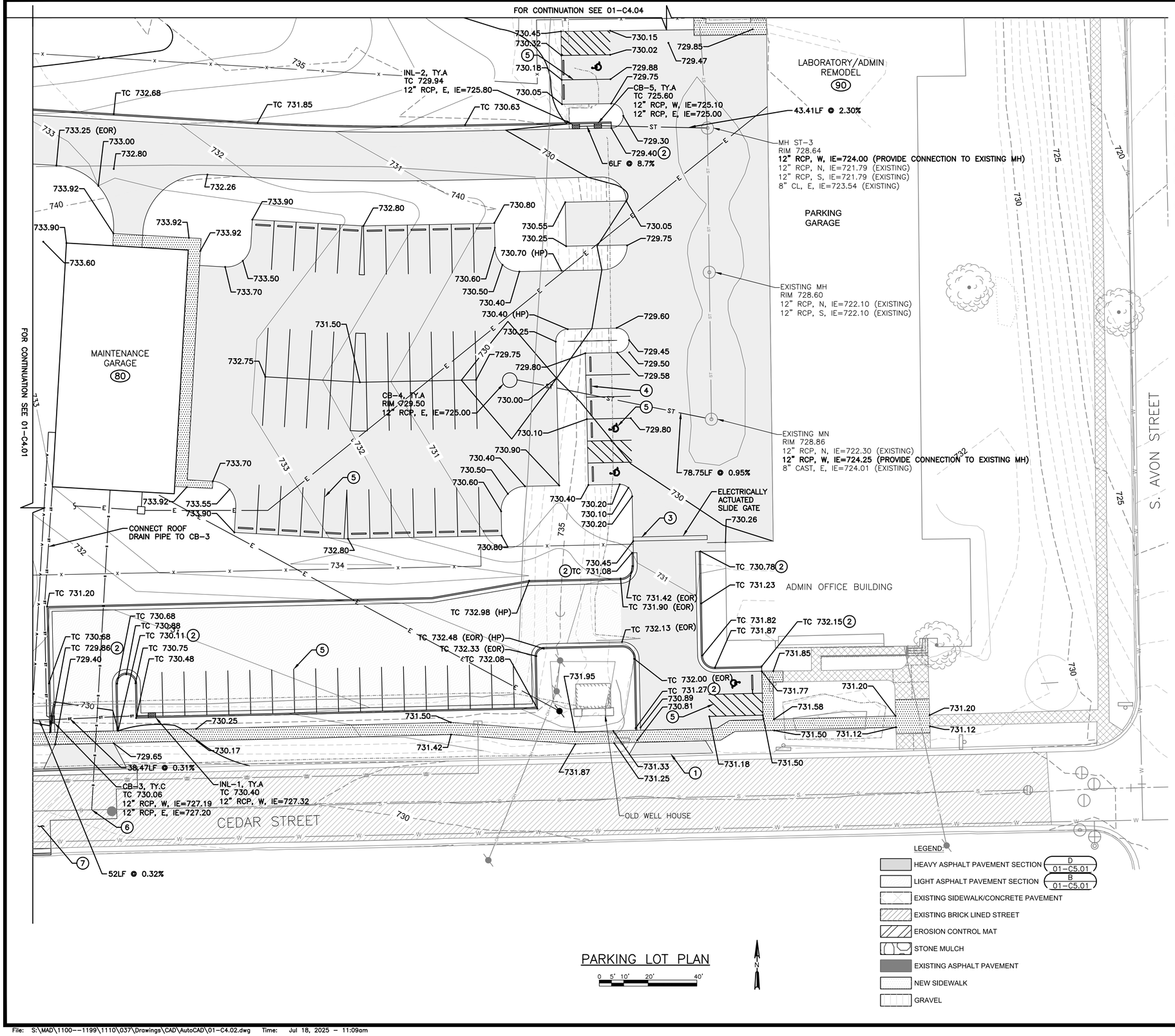
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

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SHEET 11 01-C4.01



PARKING LOT PLAN

0 5' 10' 20' 40'

N

LEGEND:

- HEAVY ASPHALT PAVEMENT SECTION (D, 01-C5.01)
- LIGHT ASPHALT PAVEMENT SECTION (B, 01-C5.01)
- EXISTING SIDEWALK/CONCRETE PAVEMENT
- EXISTING BRICK LINED STREET
- EROSION CONTROL MAT
- STONE MULCH
- EXISTING ASPHALT PAVEMENT
- NEW SIDEWALK
- GRAVEL

GENERAL NOTES:

1. SEE SHEET 01-C4.01 FOR GENERAL NOTES.

KEY NOTES:

1. PROTECT EXISTING DRIVEWAY CURB AND GUTTER
2. 18" TAPERED CURB HEAD.
3. 32-FT LONG SLIDE GATE.
4. 6-FT LONG LOPA CURB STOP. (TYP.)
5. PROVIDE ALL EPOXY PAVEMENT MARKINGS. (TYP.).
6. PROVIDE SANITARY LATERAL CONNECTION TO EXISTING SANITARY SEWER MAIN.
7. SALVAGE AND REPLACE EXISTING BRICKS OR PROVIDE NEW BRICKS TO MATCH.

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ENLARGED SITE PLAN - 2

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
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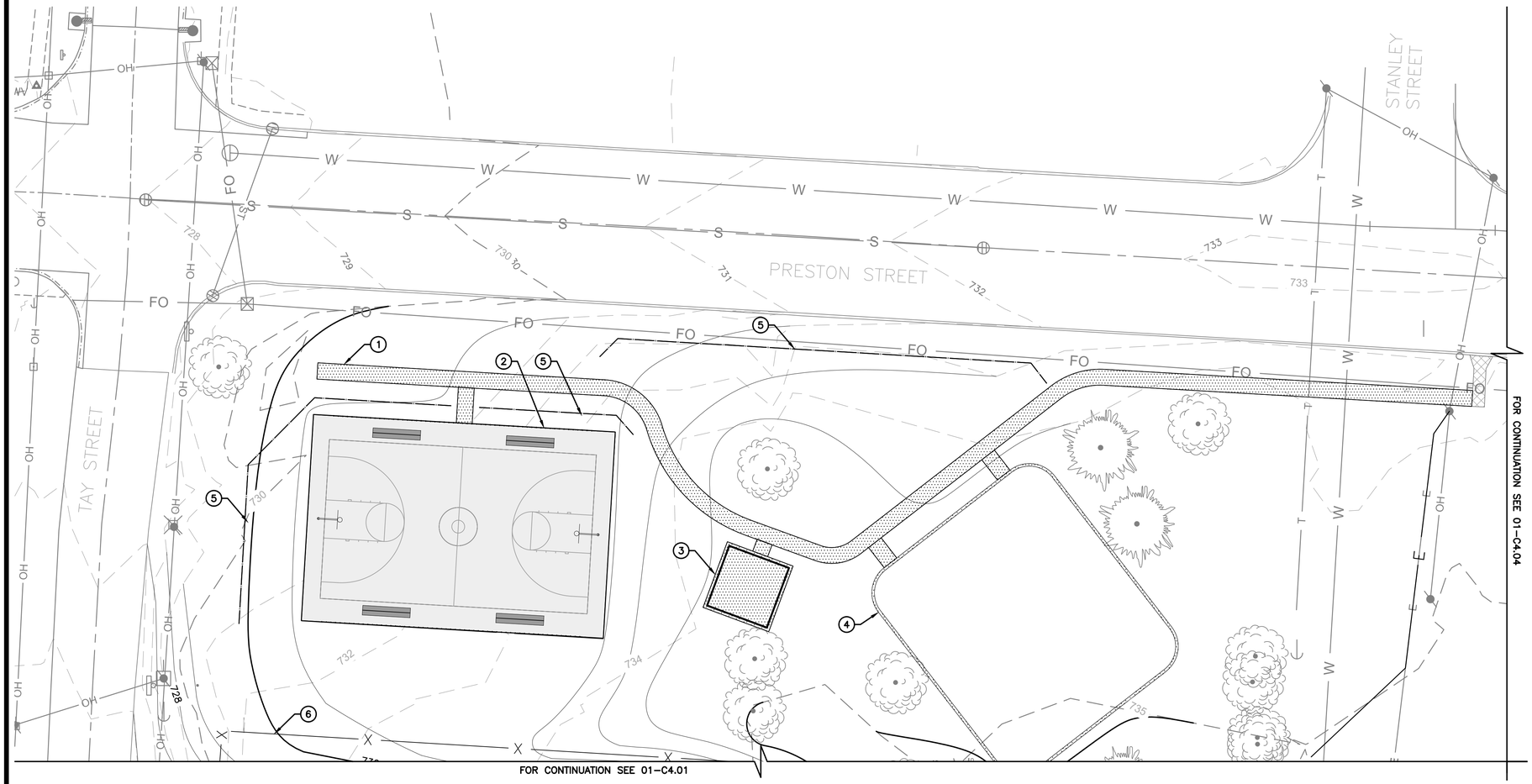
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SHEET 12 01-C4.02

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GENERAL NOTES:

1. SEE SHEET 01–C4.01 FOR GENERAL NOTES.
2. SEE SHEET 02–C9.01 THROUGH 01–C9.05 FOR ADDITIONAL REQUIREMENTS.

KEY NOTES:

1. SIDEWALK TO BE COMPLETED IN LUMP SUM BASE BID (AND NOT AS PART OF BID ALTERNATIVE NO. 1)
2. BASKETBALL COURT, BASE COURSE, EQUIPMENT, APPURTENANCES, AND ALL WORK REQUIRED FOR A FULLY FUNCTIONALY BASKETBALL COURT SHALL BE INCLUDED IN BID ALTERNATIVE NO. 1. SEE DIVISION 03 AND SECTION 11 68 33 FOR ADDITIONAL ATHLETIC FIELD EQUIPMENT REQUIREMENTS. ALL GRADING AND RESTORATION IN THIS AREA SHALL BE INCLUDED IN THE LUMP SUM BASE BID AND NOT BID ALTERNATIVE NO. 1.
3. PARK SHELTER, BASE COURSE AND FOUNDATION, APPURTENANCES, AND ALL WORK REQUIRED FOR A FULLY FUNCTIONALY PARK SHELTER SHALL BE INCLUDED IN BID ALTERNATIVE NO. 1. SEE DIVISION 03 AND SECTION 13 34 23 FOR ADDITIONAL FABRICATED STRUCTURE REQUIREMENTS. ALL GRADING AND RESTORATION IN THIS AREA SHALL BE INCLUDED IN THE LUMP SUM BASE BID AND NOT BID ALTERNATIVE NO. 1.
4. CONCRETE PLAYGROUND PERIMETER, PLAYGROUND EQUIPMENT AND MULCH, BASE COURSE AND FOUNDATION, APPURTENANCES, AND ALL WORK REQUIRED FOR A FULLY FUNCTIONAL PLAYGROUND AREA SHALL BE INCLUDED IN BID ALTERNATIVE NO. 1. SEE DIVISION 03 AND SPECIFICATION SECTION 11 68 13 PLAYGROUND EQUIPMENT FOR ADDITIONAL PLAYGROUND REQUIREMENTS. ALL GRADING AND RESTORATION IN THIS AREA SHALL BE INCLUDED IN THE LUMP SUM BASE BID AND NOT BID ALTERNATIVE NO. 1.
5. FENCE FOR PLAYGROUND AREA SHALL BE 4–FEET IN HEIGHT WITH NO BARB WIRE. SEE SPECIFICATIONS FOR HEIGHT AND BARB WIRE REQUIREMENTS FOR ALL OTHER AREAS OF THE SITE. THIS FENCE IS INCLUDED IN BID ALTERNATIVE NO. 1.
6. REGULAR FENCE HEIGHT WITH BARB WIRE IN THIS AREA. SEE SPECIFICATIONS.

LEGEND:

- HEAVY DUTY ASPHALT PAVEMENT (D / 01–C5.01)
- EXISTING SIDEWALK/CONCRETE PAVEMENT
- EROSION CONTROL MAT
- STONE MULCH
- EXISTING ASPHALT PAVEMENT
- NEW SIDEWALK
- GRAVEL

RESERVOIR PLAN

0 5' 10' 20' 40'

N

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

ENLARGED SITE PLAN - 3

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 13 01-C4.03

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GENERAL NOTES:

1. SEE SHEET 01–C4.01 FOR GENERAL NOTES.

KEY NOTES:

(1) 18" TAPPERED CURB HEAD.

(2) PROVIDE 5–FT WIDE MANUAL SWING GATE.

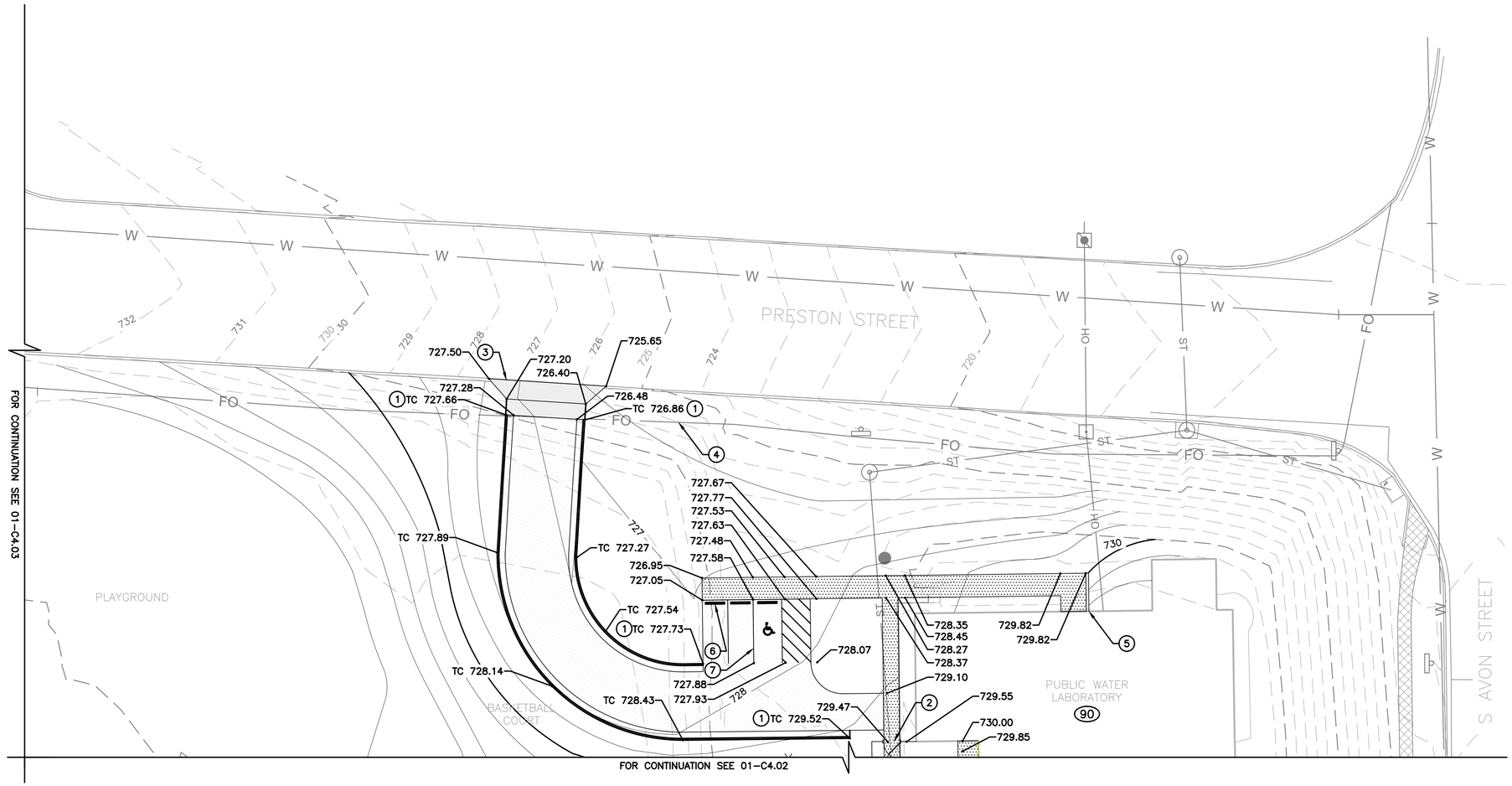
(3) MILL EXISTING CONCRETE CURB HEAD TO ALLOW FOR DRIVEWAY OPENING.

(4) COORDINATE THE RELOCATION OF THE PRIVATE FIBER OPTIC UTILITY.

(5) MODULAR BLOCK RETAINING WALL.

(6) 6 FOOT LONG CURB STOP. (TYP.)

(7) PROVIDE ALL EPOXY PAVEMENT MARKINGS. (TYP.)



NORTHEAST CORNER SITE PLAN

0 5' 10' 20' 40'

N

LEGEND:

- HEAVY ASPHALT PAVEMENT SECTION (D, 01–C5.01)
- LIGHT ASPHALT PAVEMENT SECTION (B, 01–C5.01)
- EXISTING SIDEWALK/CONCRETE PAVEMENT
- EXISTING BRICK LINED STREET
- EROSION CONTROL MAT
- STONE MULCH
- EXISTING ASPHALT PAVEMENT
- NEW SIDEWALK
- GRAVEL

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

ENLARGED SITE PLAN - 4

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

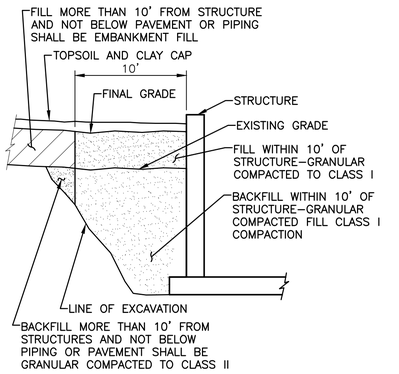
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PROJECT MGR. RYAN WOOD

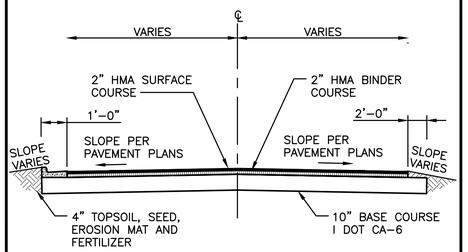
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SHEET 14
01-C4.04

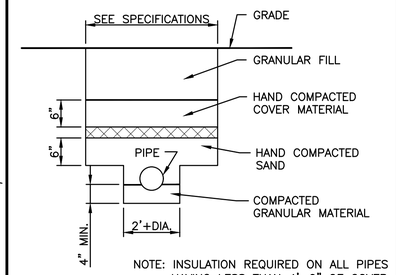
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A 01-C5.01 FILL & BACKFILL REQUIREMENTS
NO SCALE

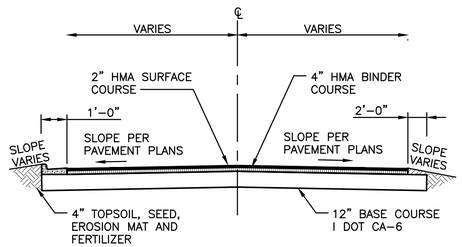


LIGHT DUTY
B 01-C5.01 ASPHALT PAVEMENT SECTION
NO SCALE

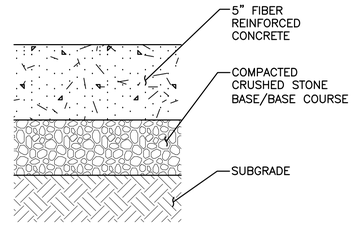


NOTE: INSULATION REQUIRED ON ALL PIPES HAVING LESS THAN 4'–0" OF COVER.

UNDERGROUND
C 01-C5.01 PIPE INSULATION
NO SCALE



HEAVY DUTY
D 01-C5.01 ASPHALT PAVEMENT SECTION
NO SCALE

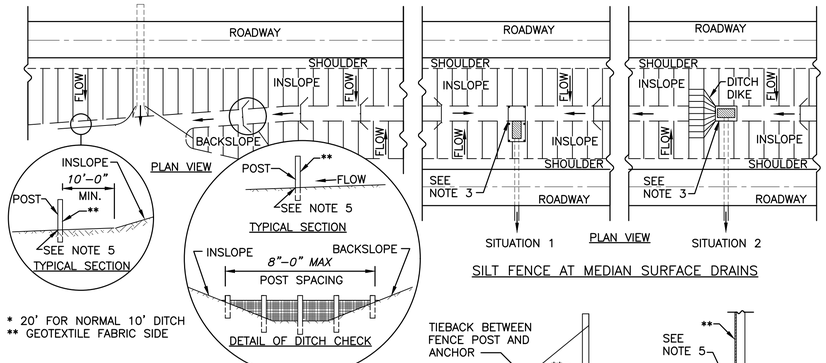


NOTE:

PROVIDE TOOLED JOINTS AT APPROXIMATELY 5' ON CENTER.

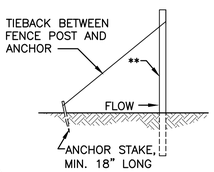
PROVIDE CONSTRUCTION JOINTS WITH 1/2" EXPANSION JOINT FILLER PER DIVISION 03.

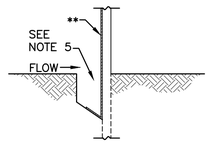
E 01-C5.01 CONCRETE SIDEWALK
NO SCALE



TYPICAL APPLICATIONS OF SILT FENCE

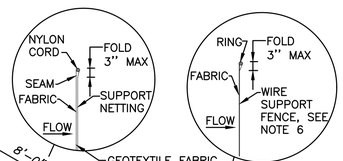
SILT FENCE AT MEDIAN SURFACE DRAINS



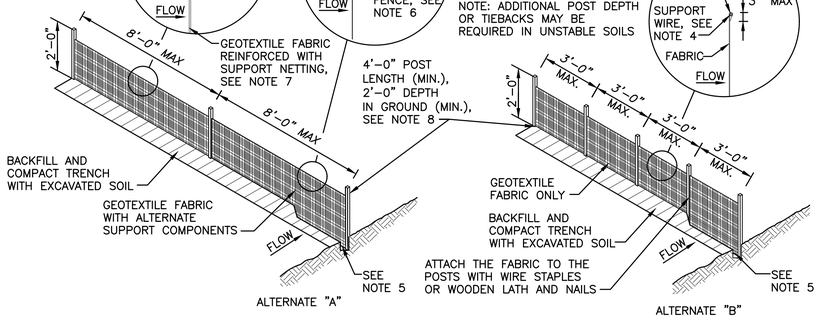


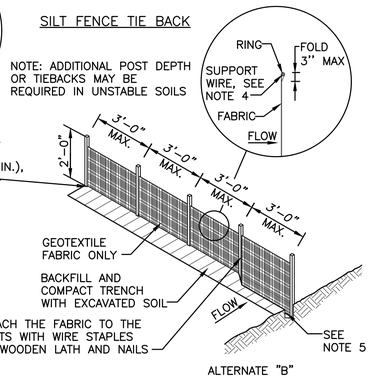
TRENCH DETAIL

SILT FENCE TIE BACK



NOTE: ADDITIONAL POST DEPTH OR TIEBACKS MAY BE REQUIRED IN UNSTABLE SOILS

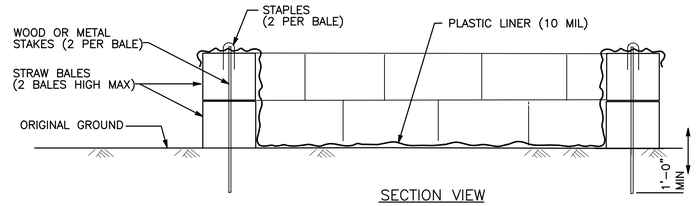




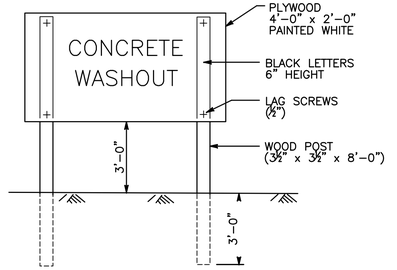
NOTES:

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.
2. WHEN POSSIBLE THE SILT FENCE SHALL BE CONSTRUCTED IN AN ARC OR HORSESHOE SHAPE, WITH THE ENDS POINTING UPSLOPE TO MAXIMIZE BOTH STRENGTH AND EFFECTIVENESS.
3. CROSS BRACE WITH 2"x4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
4. MINIMUM 14 GAGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C–C.
5. EXCAVATE TRENCH A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC, FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
6. WIRE SUPPORT FENCE SHALL BE 14 GAGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C TO C.
7. GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 1/4" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED.
8. STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.2 LBS/LINEAR FOOT WITHOUT ANCHORS, OR ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE A MINIMUM SIZE OF 4" DIAMETER, OR 2 1/2"x3 1/2", EXCEPT WOOD POSTS FOR GEOTEXTILE FABRIC REINFORCED WITH NETTING SHALL BE A MINIMUM SIZE OF 1 1/8"x1 1/8" OAK OR HICKORY.
9. ALTERNATES "A" AND "B" ARE EQUAL AND EITHER MAY BE USED.

E 01-C5.01 SILT FENCE
NO SCALE

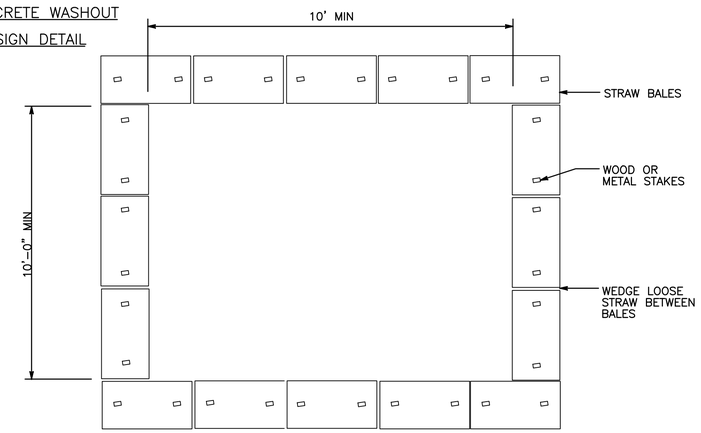


SECTION VIEW



CONCRETE WASHOUT
SIGN DETAIL

STAPLE DETAIL



NOTES:

1. ACTUAL LAYOUT TO BE DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

PLAN VIEW

F 01-C5.01 CONCRETE WASHOUT
NO SCALE

NO.	REVISIONS	DATE:
-	ISSUED FOR BID	07/24/2025

SITE DETAILS - 1

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

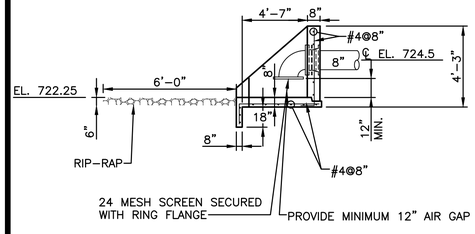
JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

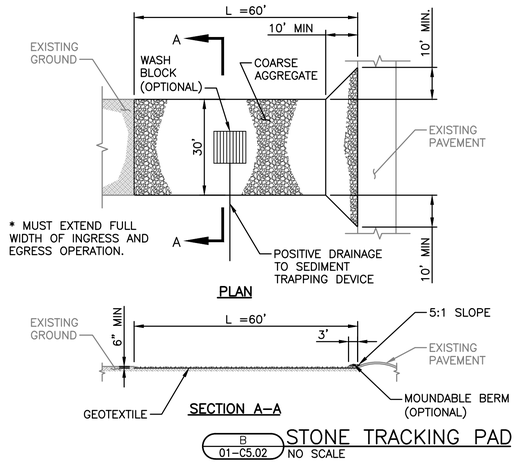
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SHEET 15
01-C5.01

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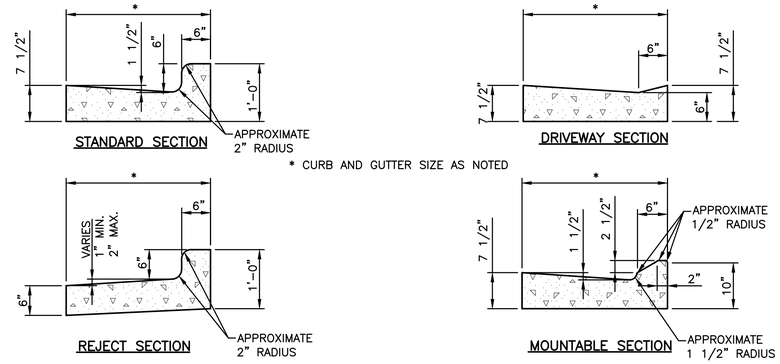
A 01-C5.02 DRAIN OUTFALL NO SCALE



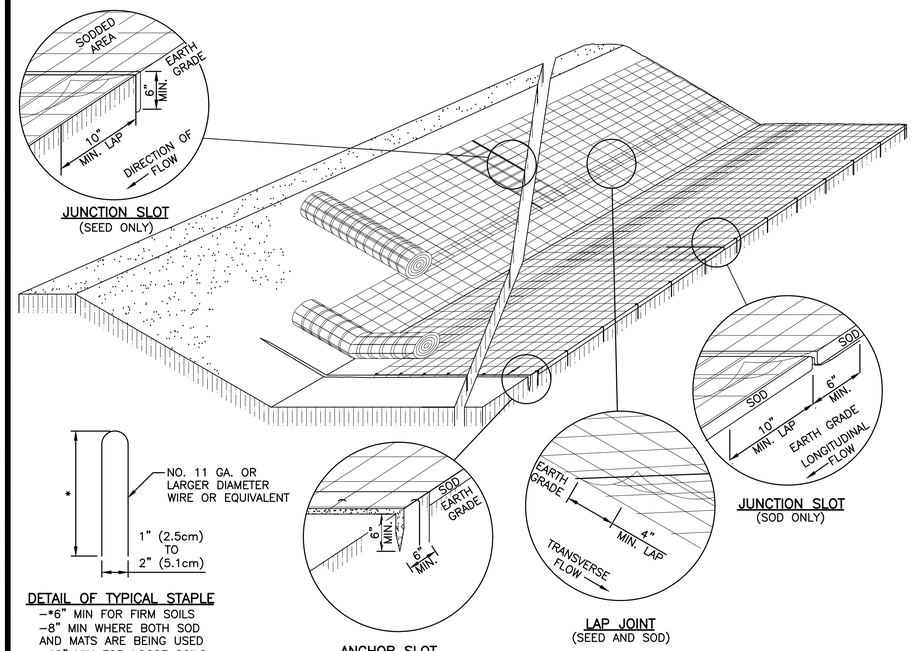
NOTES:

1. GEOTEXTILE FOR GROUND STABILIZATION SHALL MEET THE REQUIREMENTS OF SECTION 210 OF STANDARD SPECIFICATIONS, AND SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO PLACING ROCK.
2. COARSE AGGREGATE SHALL MEET ONE OF THE FOLLOWING IDOT GRADATIONS, CA-1, CA-2, CA-3 OR CA-4 AND BE PLACED ACCORDING TO SECTION 210 OF THE STANDARD SPECIFICATIONS.
3. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS.
4. IF WASH RACKS ARE USED THEY SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS.
5. CONTRACTOR SHALL PROVIDE MAINTENANCE AS NECESSARY.

B 01-C5.02 STONE TRACKING PAD NO SCALE



C 01-C5.02 CONCRETE CURB AND GUTTER NO SCALE



EROSION MAT OVER SOD

1. ONLY JUTE FABRIC WILL BE PERMITTED OVER SOD.
2. FLOOD STAKES FOR SOD MAY BE OMITTED IF THE EXISTING SLOPE AND SOIL CONDITIONS SO PERMIT.
3. THE WIDTH OF EROSION MAT SHALL ALWAYS EQUAL THE SOD WIDTH.
4. SOD STRIPS MAY BE PLACED EITHER LONGITUDINALLY OR TRANSVERSELY TO THE FLOW LINE OF THE DITCH.

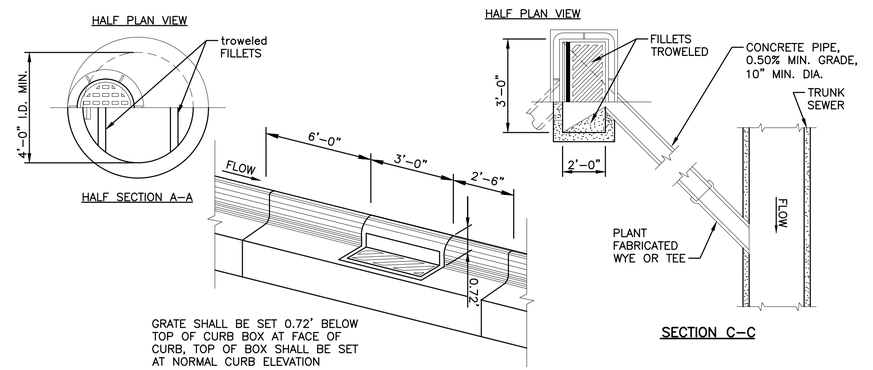
EROSOIN MAT OVER SEEDING

JUNCTION OR ANCHOR SLOTS SHALL BE AT MINIMUM INTERVALS OF 100 FEET ON GRADES UP TO AND INCLUDING 3 PERCENT, AND 50 FEET ON GRADES EXCEEDING 3 PERCENT.

NOTES:

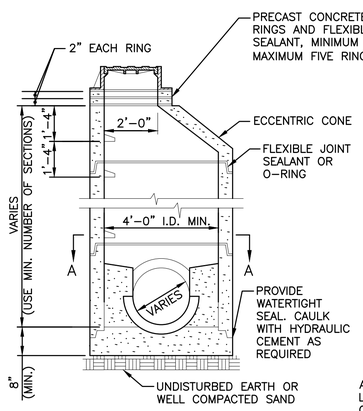
1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.
2. VARIATIONS IN THE DIMENSIONS OR MATERIALS SHOWN HEREON SHALL BE PERMITTED IF THEY PROVIDE EQUIVALENT PROTECTION AND MATERIAL STRENGTH.
3. LAP JOINTS SHALL NOT BE PLACED IN THE BOTTOM OF V-SHAPED DITCHES.
4. JUNCTION SLOTS ON ADJACENT STRIPS OF MATTING SHALL BE STAGGERED A MINIMUM OF 4 FEET APART.
5. EDGES OF THE EROSION MAT SHALL BE IMPRESSED IN THE SOIL.
6. EROSION MAT SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

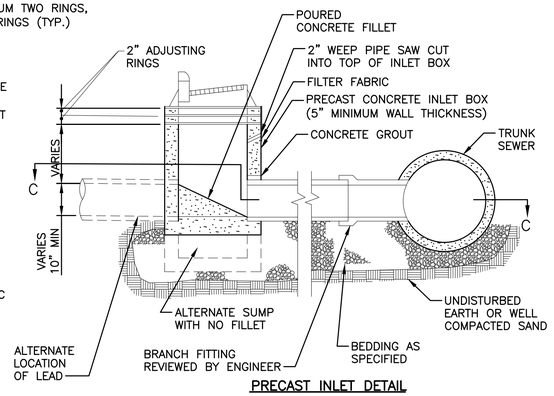
D 01-C5.02 EROSION CONTROL MAT INSTALLATION NO SCALE



NOTES:

1. DETAILS RELATIVE TO ITEMS SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIFICATIONS.
2. VARIATIONS IN DIMENSIONS AND DESIGN MAY BE PERMISSIBLE PROVIDING EQUIVALENT CAPACITY AND STRENGTH ARE ATTAINED.
3. WHEN ANY STRUCTURE IS CONSTRUCTED OF CONCRETE, CONCRETE BLOCK OR REINFORCED CONCRETE CULVERT PIPE, THE TOP OF THE MASONRY SHALL BE LEFT SUFFICIENTLY LOW TO PERMIT PROPER ADJUSTMENT OF COVER TO GRADE.
4. REINFORCED PRECAST FLAT SLAB SHALL BE USED IN LIEU OF PRECAST ECCENTRIC CONE WHEN SHOWN ON THE DRAWINGS AND SHALL BE DESIGNED FOR H-20 TRUCK LOADING.
5. PRECAST REINFORCED CONCRETE MANHOLE RISERS AND TOPS SHALL CONFORM TO ASTM C-478. JOINTS BETWEEN MANHOLE SECTIONS SHALL BE SEALED WITH RAM NEK, HANDLING HOLES SHALL BE FILLED WITH MORTAR, AND BOTH MADE WATER TIGHT.
6. STEPS SHALL BE INSTALLED IN ALL MANHOLES.
7. AT ALL BENDS IN SEWER, A SMOOTH RADIUS FLOW LINE SHALL BE PROVIDED IN MANHOLES. ALL CONCRETE FILLETS SHALL BE HAND troweled.
8. INSIDE DIMENSIONS FOR MANHOLES: USE MINIMUM 4' DIAMETER FOR SEWER LESS THAN 18" IN DIAMETER; USE MINIMUM 5' DIAMETER FOR SEWER 18" THRU 24" IN DIAMETER; USE MINIMUM 6' DIAMETER OR MINIMUM 6' SQUARE FOR SEWER OVER 24" IN DIAMETER, UNLESS OTHERWISE SPECIFIED.
9. ARRANGEMENT AND NUMBER OF INLETS AND DISCHARGE PIPES SHALL CONFORM TO THE NEEDS OF THE PERTINENT LOCATION.
10. PROVIDE MINIMUM 2'-0" COVER FOR ALL INLET LEAD PIPE, UNLESS OTHERWISE SPECIFIED.
11. ALL INLETS SHALL BE DEPRESSED AS SHOWN.
12. INLET DEPTH AND GRADE OF INLET LEAD PIPE VARY ACCORDING TO DEPTH OF TRUNK SEWER. MINIMUM INLET DEPTH BELOW TOP OF CURB SHALL BE 4'-0".





E 01-C5.02 STORM SEWER MANHOLES AND INLETS NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

SITE DETAILS - 2

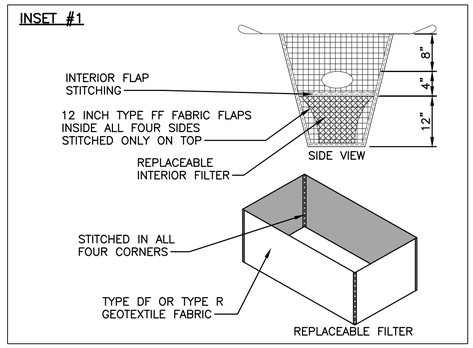
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

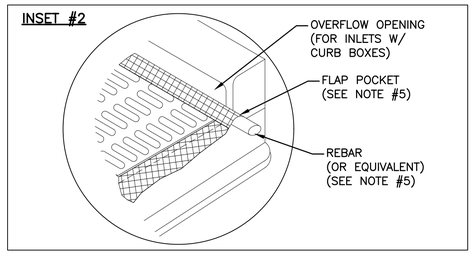
JOB NO. 1110.037
PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 16
01-C5.02

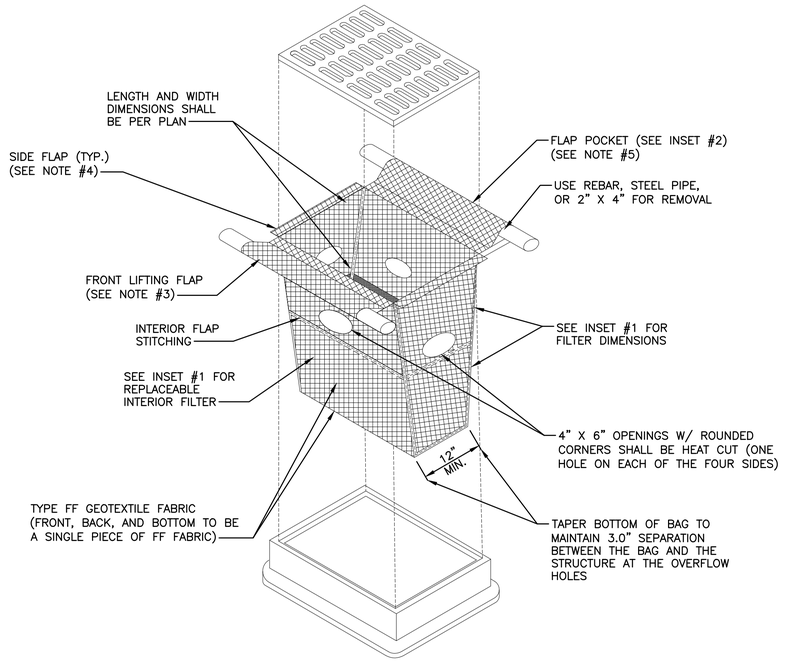
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MAINTENANCE NOTES:

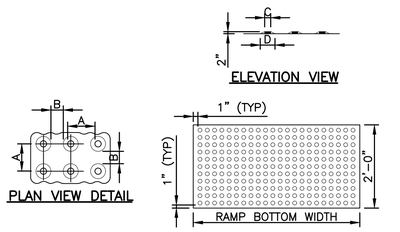
1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.



NOTES:

1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK, AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" X 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.

A 01-C5.03 INLET PROTECTION TYPE D-M
NO SCALE

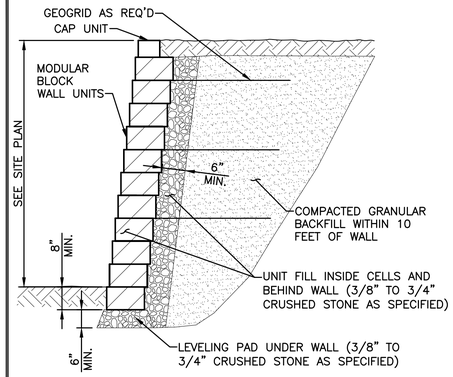


	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION

NOTE: TRUNCATED DOMES SHALL BE SPECIFIED IN DIVISION 32 OR AS REQUIRED BY THE CITY OR OWNER

B 01-C5.03 TRUNCATED DOMES
NO SCALE



C 01-C5.03 BLOCK RETAINING WALL
NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

SITE DETAILS - 3

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

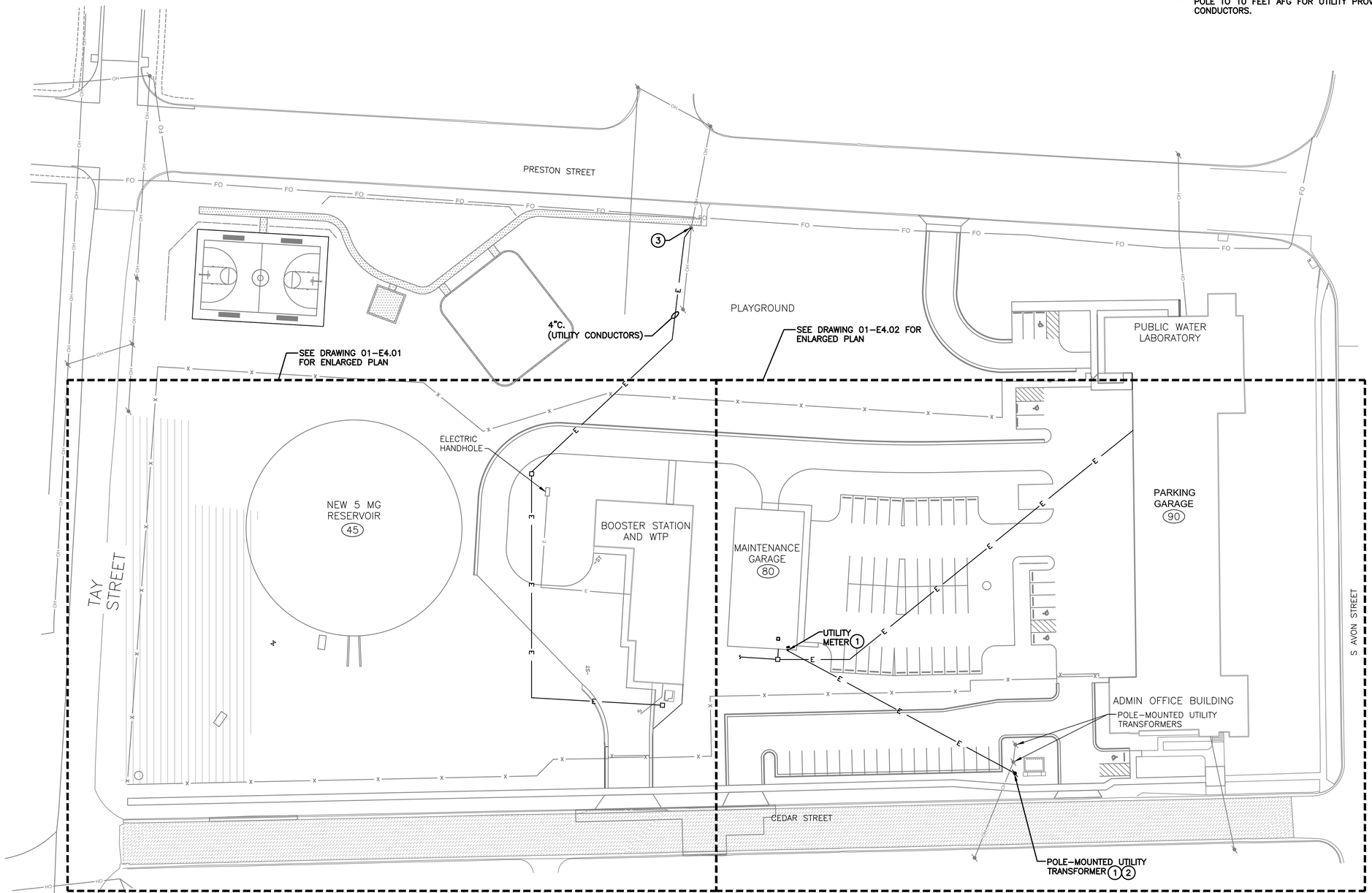
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SHEET 17 01-C5.03

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KEY NOTES:

1. COORDINATE UTILITY SERVICE WITH UTILITY COMPANY. REFER TO SPECIFICATION SECTION 26 21 00 FOR ADDITIONAL INFORMATION.
2. CONDUIT AT UTILITY POLE SHALL BE EXTENDED UP POLE TO 10 FEET AFG. PROVIDE EXCESS CONDUCTOR LENGTH FOR UTILITY TO CONNECT TO UTILITY–PROVIDED POLE–MOUNTED TRANSFORMER.
3. CONDUIT AT UTILITY POLE SHALL BE EXTENDED UP POLE TO 10 FEET AFG FOR UTILITY PROVIDED CONDUCTORS.



ELECTRICAL PLAN

0 10' 20' 40' 80'

N

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OVERALL ELECTRICAL PLAN

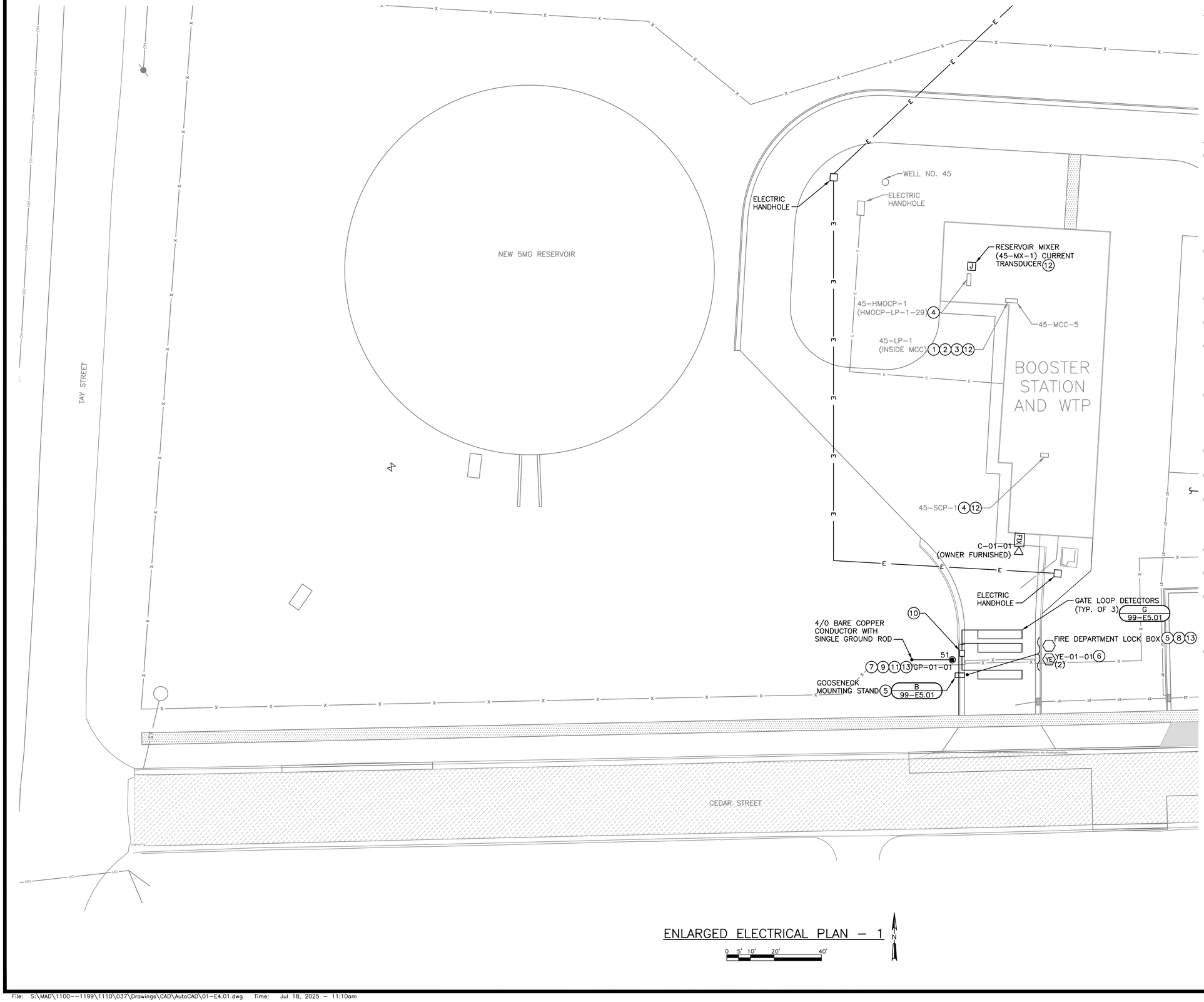
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037
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SHEET 18
01-E1.01

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ENLARGED ELECTRICAL PLAN – 1

0 5' 10' 20' 40'

N

GENERAL NOTES:

1. ONLY MAJOR ELECTRICAL FEEDER ROUTES ARE SHOWN ON THIS DRAWING. CONDUIT ROUTES FOR BRANCH CIRCUITS, INSTRUMENTATION, COMMUNICATION, AND CONTROL CIRCUITS ARE NOT SPECIFICALLY SHOWN. PROVIDE CONDUIT AND HANDHOLES AS REQUIRED FOR ALL OTHER CIRCUITS.
2. REFER TO SPECIFICATION SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE SCADA SYSTEM.
3. CONDUIT ROUTES WITHIN THE EXISTING BOOSTER STATION MAY NOT BE ROUTED THROUGH ANY CHEMICAL ROOMS.

KEY NOTES:

(1) THERE ARE TWO 20-AMP, SINGLE-POLE SPARE CIRCUIT BREAKERS IN AVAILABLE SPACE WITHIN 45-LP-1. REPLACE ONE SPARE CIRCUIT BREAKER WITH 20-AMP, SINGLE-POLE, GFPE RATED CIRCUIT BREAKER FOR POWER TO THE MIXER AT THE RESERVOIR. THE OTHER SPARE CIRCUIT BREAKER SHALL BE USED TO POWER THE CONVENIENCE RECEPTACLE AT THE RESERVOIR. EXISTING LIGHTING PANEL IS MANUFACTURED BY EATON, TYPE POW-R-LINE PRL2a, JOB NO. MKY6020443-001 WITH 10kAIC CIRCUIT BREAKERS.

(2) PHASE, NEUTRAL, AND GROUND CONDUCTORS FROM 45-LP-1 TO RESERVOIR MIXER JUNCTION BOX AND RECEPTACLE AT THE RESERVOIR SHALL BE MINIMUM #10. SEE DRAWING 45-E1.01 FOR LOCATION OF THE JUNCTION BOX AND RECEPTACLE.

(3) PROVIDE UPDATED, TYPED PANEL SCHEDULE FOR 45-LP-1.

(4) REFER TO SPECIFICATION SECTION 26 09 00, PART 3 FOR REQUIRED MODIFICATIONS TO CONTROL PANELS.

(5) SLIDING GATE OPERATOR CONTROLS FURNISHED BY DIVISION 32 AND INSTALLED AND WIRED BY DIVISION 26. REFER TO DIVISION 32 OF THE SPECIFICATIONS FOR OPERATING DESCRIPTION AND ADDITIONAL CONTROLS TO BE WIRED BY DIVISION 26.

(6) PROVIDE 2~#10 IN 3/4" CONDUIT FROM 12VDC POWER SUPPLY IN OWNER'S ACCESS CONTROL PANEL WITHIN THE MAINTENANCE GARAGE ELECTRICAL ROOM TO CARD READERS AT ENTRANCE GATE. SEE DRAWING 80-E1.01 FOR LOCATION OF THE ACCESS CONTROL PANEL.

(7) PROVIDE CONCRETE PAD PER GATE OPERATOR MANUFACTURER'S RECOMMENDATIONS.

(8) PROVIDE LOCK BOX PER FIRE DEPARTMENT REQUIREMENTS. COORDINATE WITH FIRE DEPARTMENT.

(9) PROVIDE 3/4" CONDUIT FROM GATE OPERATOR TO OWNER'S ACCESS CONTROL PANEL IN MAINTENANCE GARAGE ELECTRICAL ROOM FOR REMOTE OPEN COMMAND SIGNAL. SEE DRAWING 80-E1.01 FOR LOCATION OF OWNER'S ACCESS CONTROL PANEL.

(10) PROVIDE 12"X12" HANDHOLE FOR LOOP DETECTOR LEAD-IN CABLES.

(11) EQUIPMENT SHALL BE POWERED FROM LP-80. SEE SHEET 01-E4.02 FOR LOCATION OF LIGHTING PANEL.

(12) NEMA 4X JUNCTION BOX FURNISHED BY SECTION 26 09 00 SYSTEM SUPPLIER SHALL BE WALL-MOUNTED NEXT TO 45-HMOCP-1. POWER WIRING FOR RESERVOIR MIXER SHALL BE ROUTED THROUGH THE CURRENT TRANSDUCER IN THIS JUNCTION BOX FOR MONITORING AT THE SCADA SYSTEM.

(13) PROVIDE MANUFACTURER-RECOMMENDED CABLE IN 3/4" CONDUIT FROM FIRE DEPARTMENT LOCK BOX TO FENCE GATE OPERATOR.

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ENLARGED ELECTRICAL PLAN - 1

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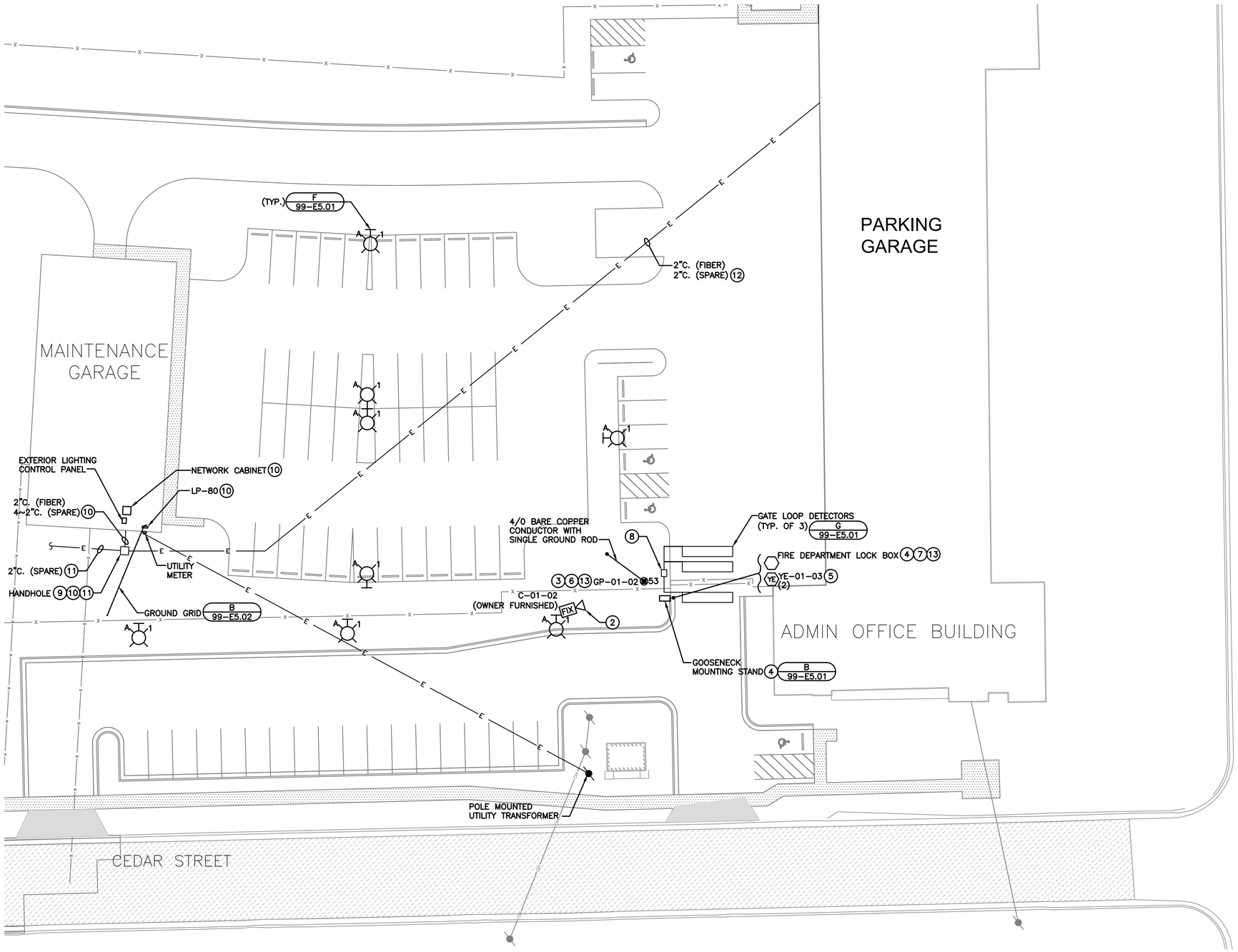
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ENLARGED ELECTRICAL PLAN – 2

0 5' 10' 20' 40'

GENERAL NOTES:

1. ONLY MAJOR ELECTRICAL FEEDER ROUTES ARE SHOWN ON THIS DRAWING. CONDUIT ROUTES FOR BRANCH CIRCUITS, INSTRUMENTATION, COMMUNICATION, AND CONTROL CIRCUITS ARE NOT SPECIFICALLY SHOWN. PROVIDE CONDUIT AND HANDHOLES AS REQUIRED FOR ALL OTHER CIRCUITS.
2. ALL 120/208V EQUIPMENT ON THIS SHEET SHALL BE POWERED FROM LP–80.
3. LIGHT POLES SHALL BE MOUNTED A MINIMUM 2'–0" FROM BACK OF CURB OR PAVEMENT.
4. EXTERIOR FIXTURES SHALL BE CONTROLLED THROUGH AN EXTERIOR LIGHTING CONTROL PANEL FURNISHED BY THE SECTION 26 09 00 SYSTEM SUPPLIER AND LOCATED IN THE MAINTENANCE GARAGE. LIGHT FIXTURES SHALL BE POWERED FROM LIGHTING PANEL LP–80 THROUGH A CONTACTOR IN THE EXTERIOR LIGHTING CONTROL PANEL.
5. REFER TO SPECIFICATION SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE SCADA SYSTEM.

KEY NOTES:

(1) COORDINATE NEW UTILITY SERVICE WITH UTILITY COMPANY. REFER TO SPECIFICATION SECTION 26 21 00 FOR ADDITIONAL INFORMATION.

(2) CAMERA SHALL BE POLE MOUNTED. PROVIDE FLEXIBLE CONDUIT WITHIN POLE TO SEPARATE CABLING FOR POWER AND COMMUNICATION.

(3) PROVIDE 3/4" CONDUIT FROM GATE OPERATOR TO OWNER'S ACCESS CONTROL PANEL IN MAINTENANCE GARAGE ELECTRICAL ROOM FOR REMOTE OPEN COMMAND SIGNAL. SEE DRAWING 80–E1.01 FOR LOCATION OF OWNER'S ACCESS CONTROL PANEL.

(4) SLIDING GATE OPERATOR CONTROLS FURNISHED BY DIVISION 32 AND INSTALLED AND WIRED BY DIVISION 26. REFER TO DIVISION 32 OF THE SPECIFICATIONS FOR OPERATING DESCRIPTION AND ADDITIONAL CONTROLS TO BE WIRED BY DIVISION 26.

(5) PROVIDE 2–#10 IN 3/4" CONDUIT FROM 12VDC POWER SUPPLY IN OWNER'S ACCESS CONTROL PANEL WITHIN THE MAINTENANCE GARAGE ELECTRICAL ROOM TO CARD READERS AT ENTRANCE GATE. SEE DRAWING 80–E1.01 FOR LOCATION OF THE ACCESS CONTROL PANEL.

(6) PROVIDE CONCRETE PAD PER GATE OPERATOR MANUFACTURER'S RECOMMENDATIONS.

(7) PROVIDE LOCK BOX PER FIRE DEPARTMENT REQUIREMENTS. COORDINATE WITH FIRE DEPARTMENT.

(8) PROVIDE 12"X12" HANDHOLE FOR LOOP DETECTOR LEAD–IN CABLES.

(9) PROVIDE MINIMUM 48"WX72"L HANDHOLE.

(10) TWO SPARE CONDUITS SHALL BE ROUTED FROM HANDHOLE TO NETWORK CABINET. TWO SPARE CONDUITS SHALL BE ROUTED FROM HANDHOLE TO LP–80.

(11) PROVIDE SPARE CONDUIT FROM HANDHOLE TO 45–SCP–1 FOR FUTURE FIBER CABLE FOR THE SCADA NETWORK. SEE DRAWING 01–E4.01 FOR LOCATION OF 45–SCP–1.

(12) CONDUITS SHALL BE ROUTED FROM HANDHOLE TO NETWORK CABINET IN SERVER ROOM 90138 WITHIN THE PUBLIC WATER LABORATORY BUILDING. SEE DRAWING 90–E1.01 FOR LOCATION OF NETWORK CABINET.

(13) PROVIDE MANUFACTURER–RECOMMENDED CABLE IN 3/4" CONDUIT FROM FIRE DEPARTMENT LOCK BOX TO FENCE GATE OPERATOR.

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ENLARGED ELECTRICAL PLAN - 2

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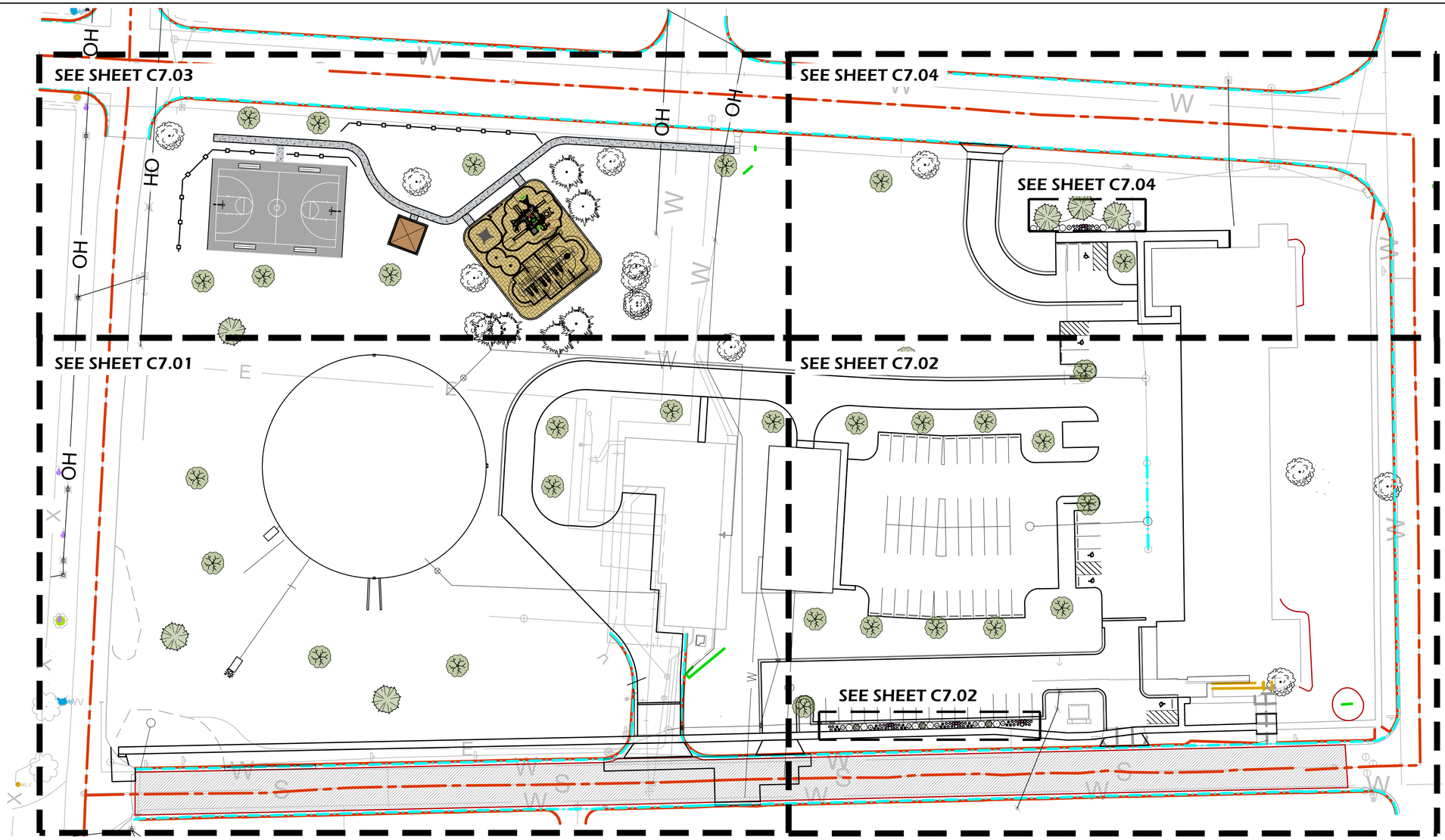
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01-E4.02

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LANDSCAPE AND RESTORATION NOTES

1. FINAL PLANT MATERIAL LOCATIONS SHALL BE FIELD ADJUSTED AS NEEDED TO AVOID CONFLICT WITH OTHER OBSTACLES. FINAL LOCATIONS SHALL BE APPROVED BY CITY PRIOR TO INSTALLATION.
2. PLANT MATERIAL SHALL BE REVIEWED BY OWNER OR A/E PRIOR TO INSTALLATION FOR QUALITY AND UNIFORMITY.
3. ALL LANDSCAPE BEDS AND TREE RINGS SHALL HAVE A MINIMUM OF 4" DEPTH SHREDDED HARDWOOD MULCH.
4. TREES MUST BE PLANTED IN A PLANTING BED OF A MINIMUM OF 140 SQUARE FEET IN LAND PER TREE, AND NO LESS THAN 8 FEET IN WIDTH.
5. TREES AND SHRUBS SHALL BE INSTALLED PER DETAILS AND SPECIFICATIONS.
6. CONTRACTOR SHALL MEET EXISTING GRADE AT GRADING LIMITS WITH A SMOOTH AND CONTINUOUS TRANSITION.
7. SOD AREAS AS INDICATED ON PLANS. SEED, FERTILIZE, AND CRIMP MULCH ALL GENERAL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS EXCEPT THOSE AREAS INDICATING OTHERWISE. THIS SHALL INCLUDE ANY AREAS OUTSIDE OF THE PROJECT LIMITS THAT ARE DISTURBED BY CONTRACTOR ACTIVITY.
8. RESTORE ALL DISTURBED AREAS WITH A MINIMUM 6" TOPSOIL DEPTH. SEED MIXES SHALL BE AS SHOWN OR LISTED IN SPECIFICATIONS. CONTRACTOR MAY NEED TO WATER RESTORED AREAS TO ENSURE A SUBSTANTIAL CATCH OF TURF GRASS. WATERING SHALL BE INCIDENTAL.

SHADE TREE PLANT SCHEDULE:
PAVED AREA = 12,920 SQ FT = 6 SHADE TREES
FRONTAGE = 235' = 5 TREES
TOTAL TREES REQUIRED = 11 TREES

Symb	Botanical Name	Common Name	Size (min)	Qty
OVERSTORY DECIDUOUS TREES				
AS	Acer Saccharum	Sugar Maple	2" Cal. B&B	4
AF	Acer x freemanii 'Sienna'	Sienna Glen Maple	2" Cal. B&B	2
BN	Betula nigra	River Birch	2" Cal. B&B	3
CO	Celtis occidentalis	Hackberry	2" Cal. B&B	5
GT	Gleditsia triacanthos var. inermus 'Skycole'	Skyline Thornless Honeylocust	2" Cal. B&B	5
GD	Gymnocladus dioicus 'Espresso'	Espresso Kentucky Coffeetree	2" Cal. B&B	4
LT	Liriodendron tulipifera	Tulip Poplar	2" Cal. B&B	1
MG	Metasequoia glypotostroboides	Dawn Redwood	2" Cal. B&B	1
PA	Platanus x acerifolia 'Morton Circle'	EXCLAMATION! London Plane Tree	2" Cal. B&B	2
QM	Quercus muehlenbergii	Chinquapin Oak	2" Cal. B&B	3
UPRIGHT EVERGREEN TREES				
PG	Picea glauca	White Spruce	1.5" Cal. B&B	3
		TOTAL TREES PROVIDED:		33

SCHEDULE OF LANDSCAPE UNITS
FRONTAGE = 235'
TOTAL LANDSCAPE UNITS REQUIRED = 2,350 LUs

Symb	Botanical Name	Common Name	Size (min)	Qty	Lus Each	Total
EVERGREEN TREES						
PG	Picea glauca	White Spruce	6' - 7'	3	225	675
TO	Thuja occidentalis 'Holmstrup'	Holmstrup Arborvitae	6' - 7'	3	225	675
DECIDUOUS SHRUBS						
Co	Cephalanthus occidentalis 'SMCOSS'	SUGAR SHACK® Buttonbush	18" - 24"	10	15	150
NATIVE/ORNAMENTAL GRASSES						
kf	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 QT. POT	27	15	405
fg	Pennisetum alopecuroides 'Hameln'	Hameln Dwarf Fountain Grass	1 QT. POT	8	15	120
PERENNIALS PLANTS						
ep	Echinacea purpurea	Pale Purple Coneflower	1 QT. POT	18	10	180
pa	Perovskia atriplicifolia 'Baby Jean Baby'	Baby Jean Russian-sage	1 QT. POT	4	10	40
rh	Rudbeckia fulgida var. sullivantii 'Little Goldstar'	Little Goldstar Black-Eyed Susan	1 QT. POT	12	10	120
ss	Sedum spectabile 'Autumn Joy'	Autumn Joy Sedum	1 QT. POT	8	10	80
				TOTAL Lus PROVIDED:		2445

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WINNEBAGO COUNTY, ILLINOIS

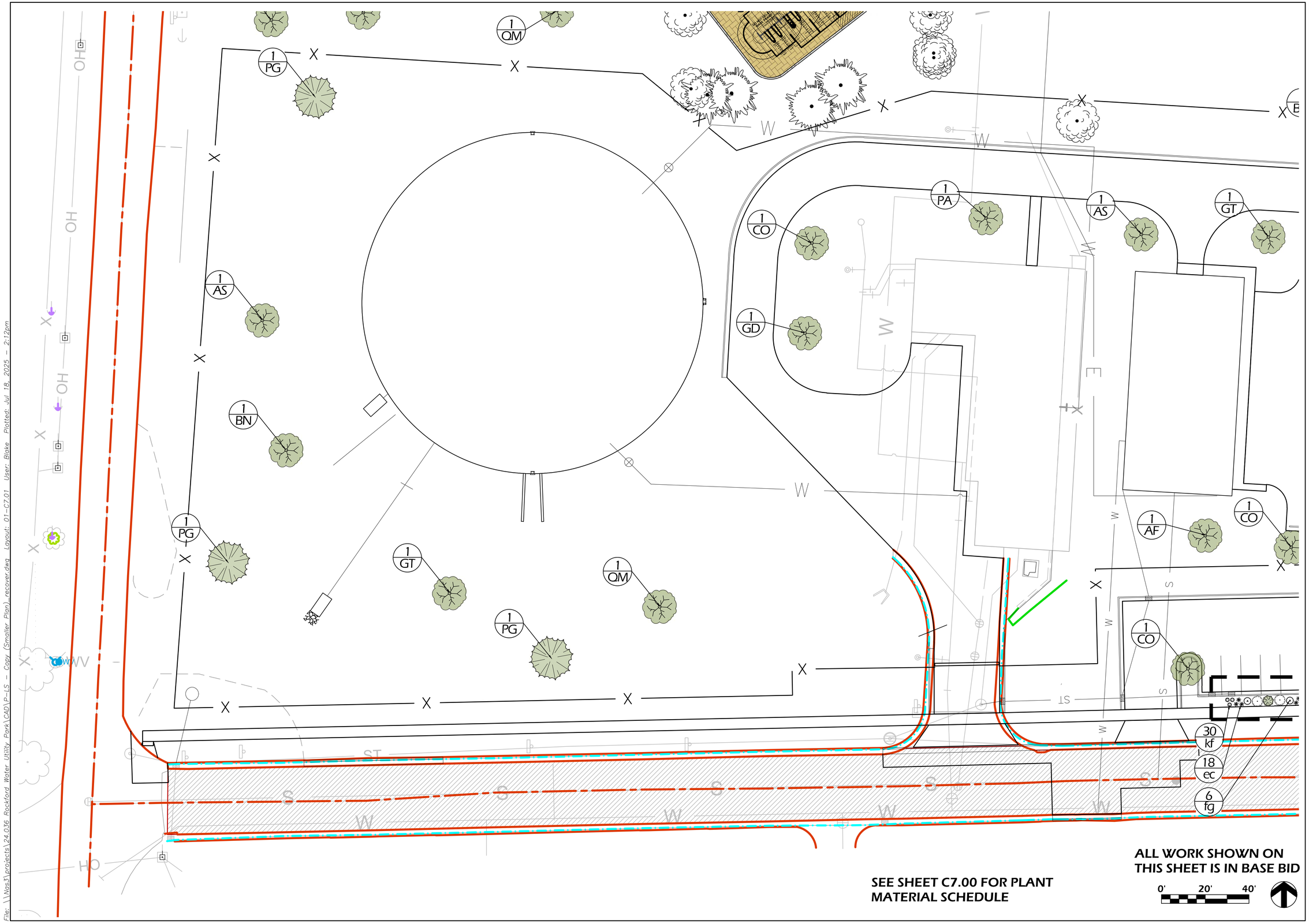
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LANDSCAPE PLAN OVERVIEW

Revisions:

Project #: 24.036
Issued For: Bidding
Date: 7/24/2025

Sheet Number
01-C7.00

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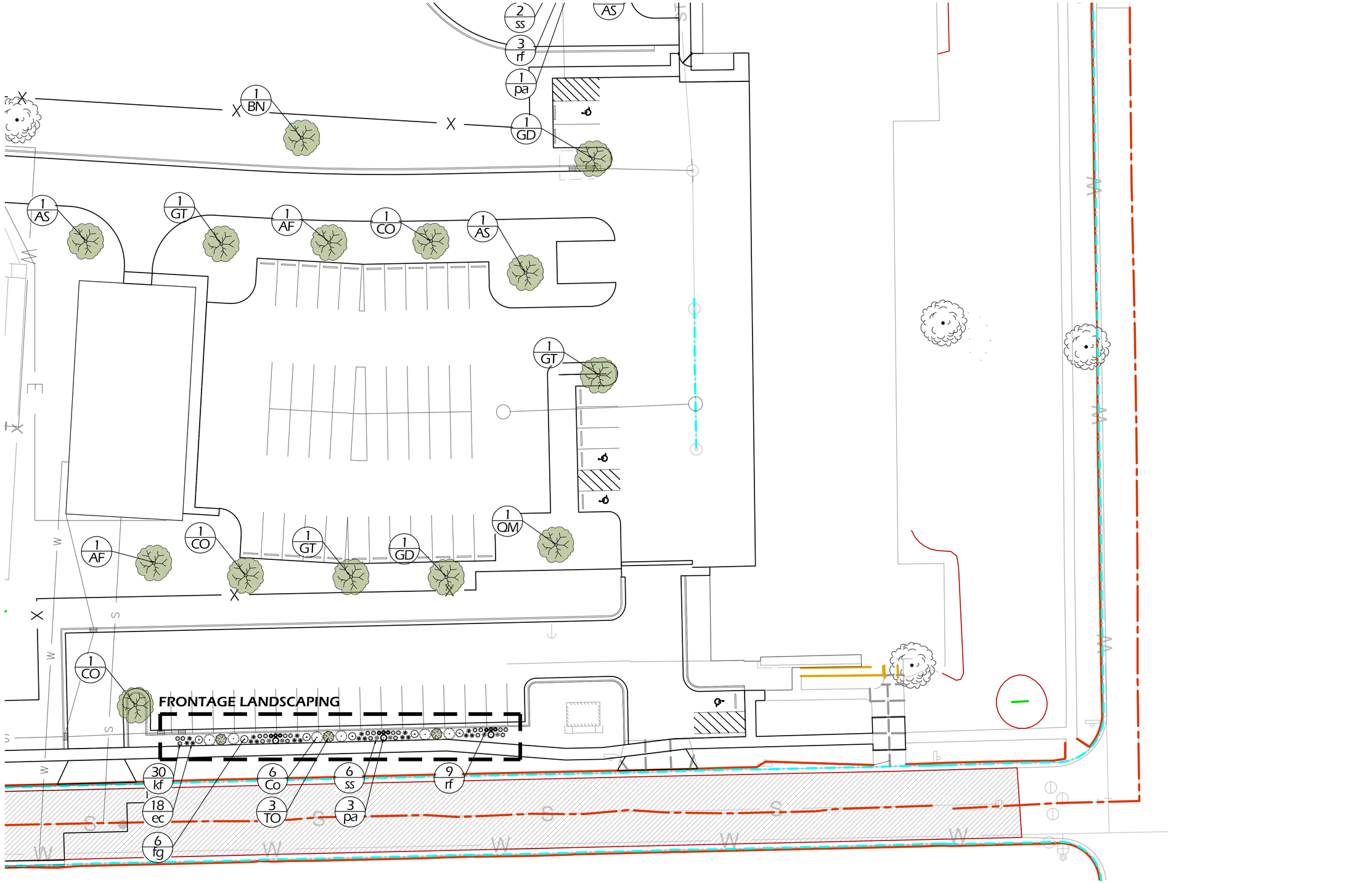
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LANDSCAPE PLAN - 1

Revisions:

Project #:	24.036
Issued For:	Bidding
Date:	7/24/2025

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SEE SHEET C7.00 FOR PLANT MATERIAL SCHEDULE

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0' 20' 40'

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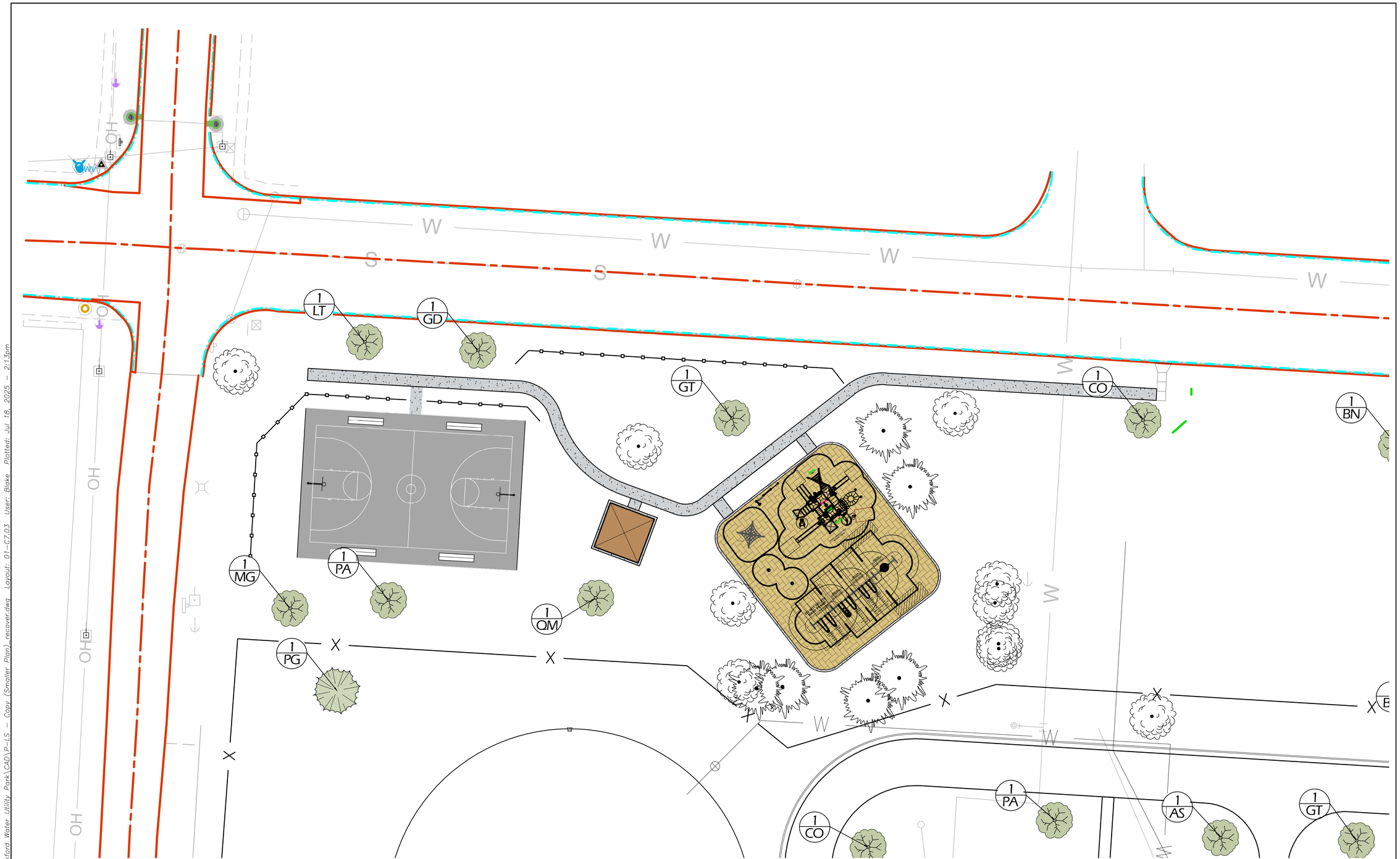
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LANDSCAPE PLAN - 2

Revisions:

Project #: 24.036
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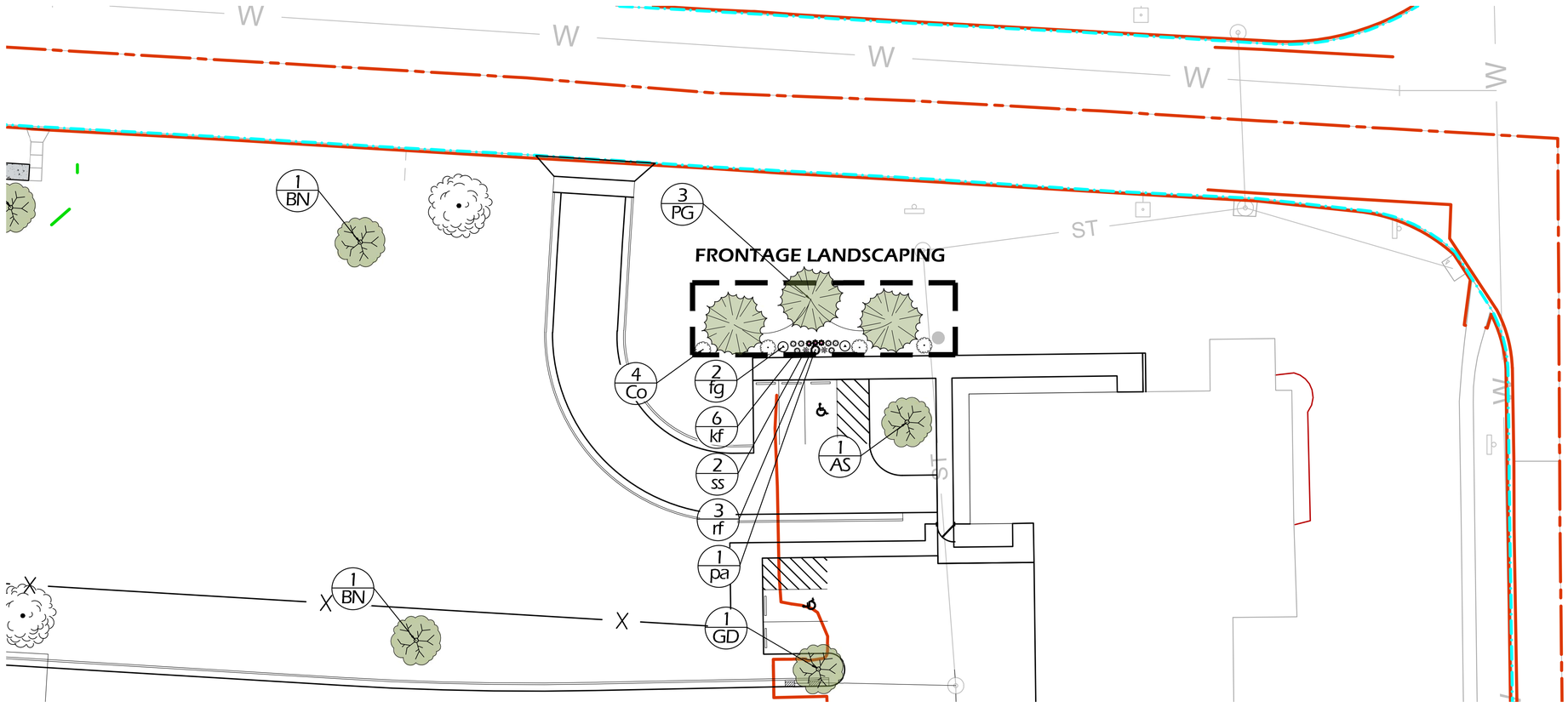
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LANDSCAPE PLAN - 3

Revisions:

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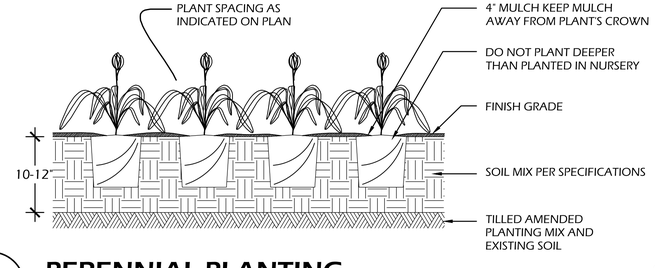
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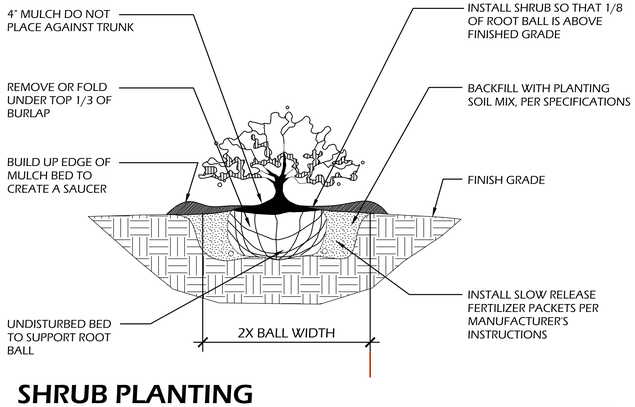
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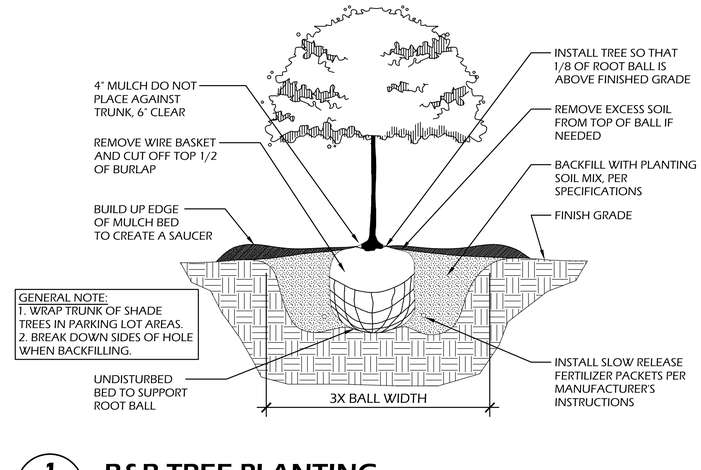
0' 20' 40'



3 01-C7.04 **PERENNIAL PLANTING**
SCALE: NTS



2 01-C7.04 **SHRUB PLANTING**
SCALE: NTS



1 01-C7.04 **B&B TREE PLANTING**
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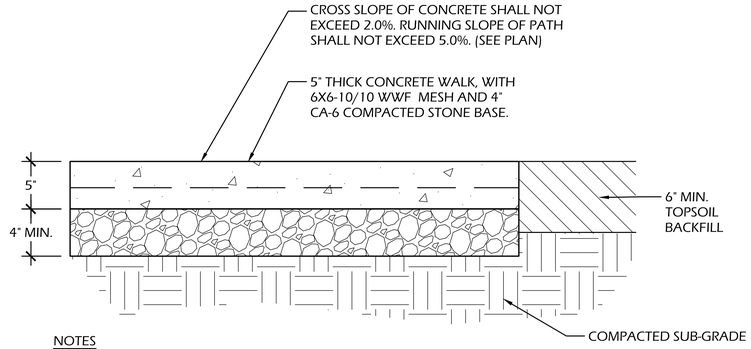
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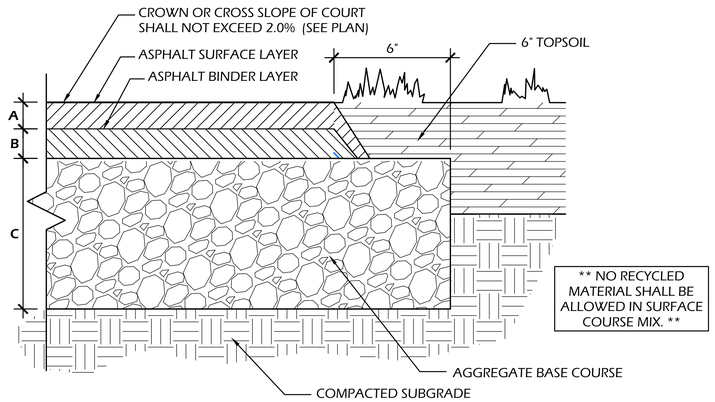
NOTES

1. CONCRETE SHALL BE 3500 PSI, 5-8% AIR ENTRAINMENT, WITH 3/4" MAX. AGGREGATE SIZE.
2. TOOLED JOINTS SHALL BE 1/4" DEEP, 5' O.C., OR AS SHOWN ON PLAN. EXPANSION JOINTS SHALL BE FULL DEPTH, 1/2" THICK, PROVIDED AT 20' O.C., OR AS SHOWN ON PLAN.
3. PROVIDE LIGHT BROOM FINISH.

6 CONCRETE PAVEMENT

01-C8.01 SCALE: NTS

ASPHALT PAVEMENT TYPICAL SECTION			
MATERIAL		MATERIAL THICKNESS (INCHES)	PAVEMENT TYPE
A	BITUMINOUS UPPER LAYER	1.5	MIX C, N50 **
B	BITUMINOUS LOWER LAYER	1.5	MIX C, N50
C	¾ IN DENSE GRADED BASE COURSE	8	TYPE B, CA-6
TOTAL THICKNESS (INCHES)		11.0	

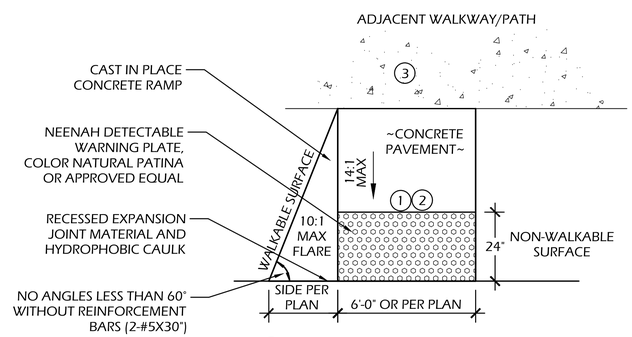


8 ASPHALT PAVEMENT - COURTS

01-C8.01 SCALE: NTS

5 PLAYGROUND CURB

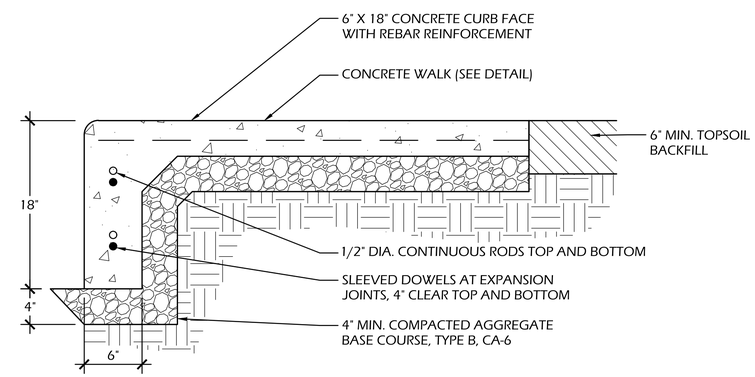
01-C8.01 SCALE: NTS



1. 7% (14:1) MAX RAMP SLOPE
2. CROSS SLOPE: 2.00% MAX.
3. CURB RAMPS REQUIRE A 4 FOOT MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

7 ADA RAMP

01-C8.01 SCALE: NTS



4 THICKENED EDGE SIDEWALK

01-C8.01 SCALE: NTS

3 NOT USED

01-C8.01 SCALE: NTS

2 NOT USED

01-C8.01 SCALE: NTS

1 NOT USED

01-C8.01 SCALE: NTS

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Project Name:
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

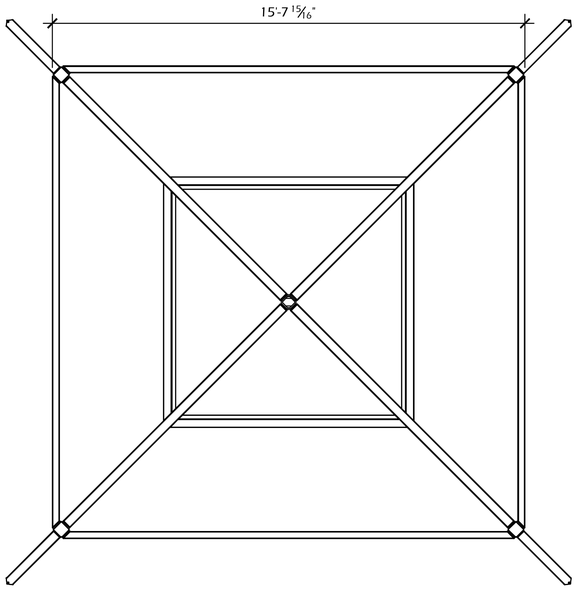
Sheet Title:
PARK CONSTRUCTION DETAILS - 1

Revisions:

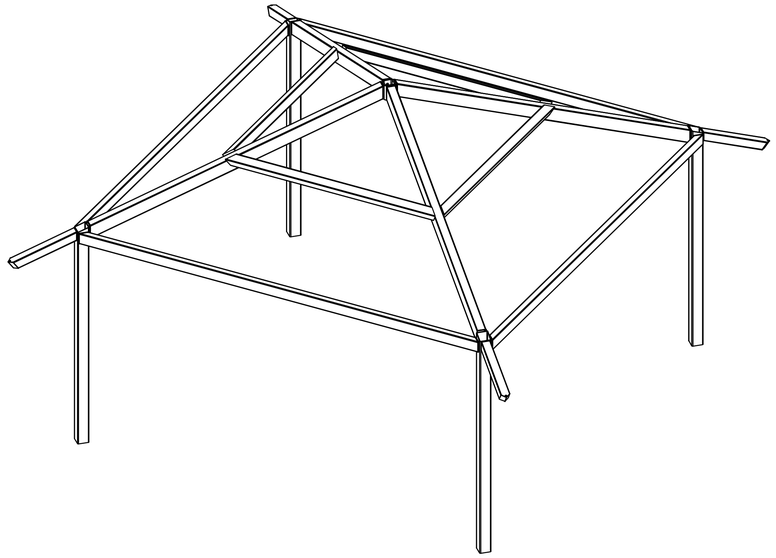
Project #: 24.036
Issued For: Bidding
Date: 7/24/2025

Sheet Number
01-C8.01

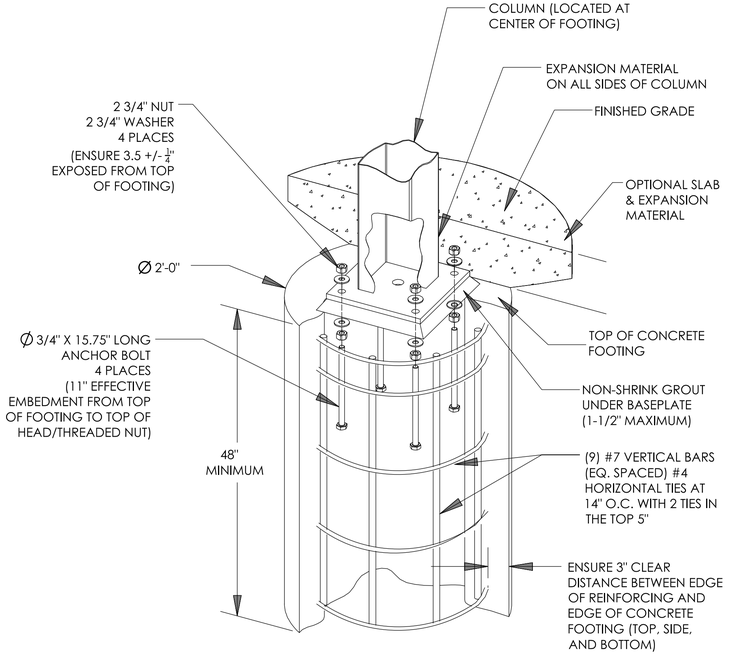
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TOP VIEW

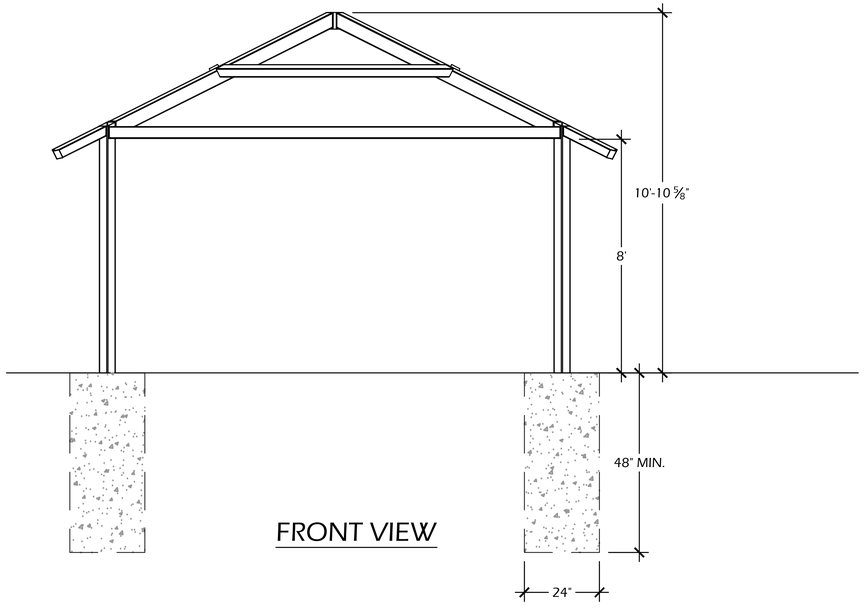


ISOMETRIC VIEW



PIER FOOTING (EXTERNAL ANCHOR BOLTS)

ALTERNATE FOOTING WILL BE CONSIDERED WITH DEMONSTRATED SHOP DRAWING SUBMITTAL



FRONT VIEW

NOTES:

1. PIER FOOTINGS PROVIDED AND INSTALLED BY CONTRACTOR.
2. INSTALL COLUMNS PER MANUFACTURER SHOP SUBMITTALS, NOT PLANS.

1 / 01-C8.02 **OPEN AIR SHADE SHELTER STRUCTURE**

SCALE: NTS

ALL WORK SHOWN ON THIS SHEET IS IN ALT BID

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Project Name: **WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS**
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

Sheet Title: **PARK CONSTRUCTION DETAILS - 2**

Revisions:

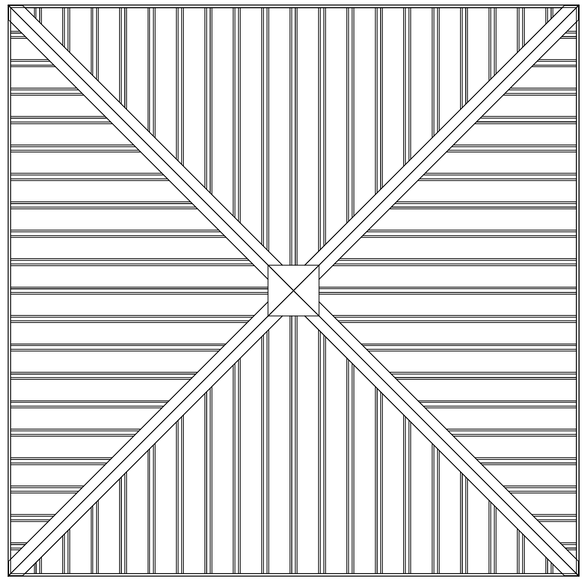
Project #: 24.036
Issued For: Bidding
Date: 7/24/2025

Sheet Number
01-C8.02

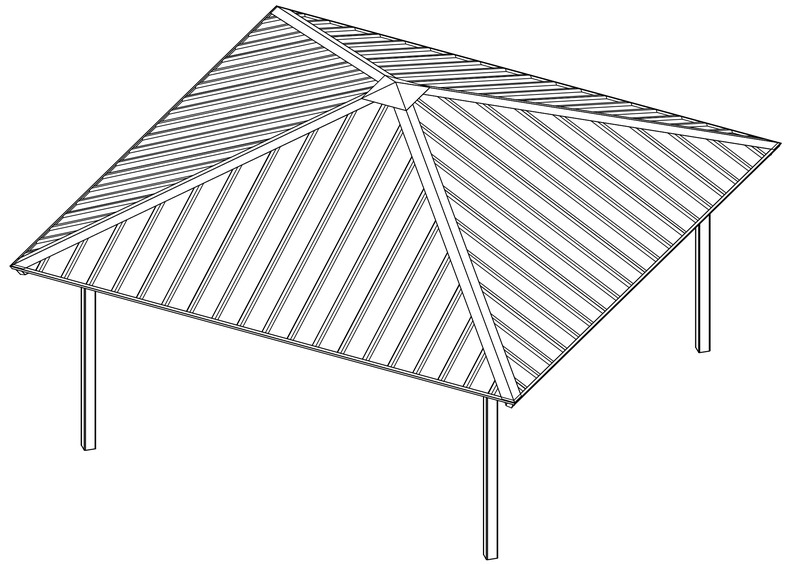
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NOTES:

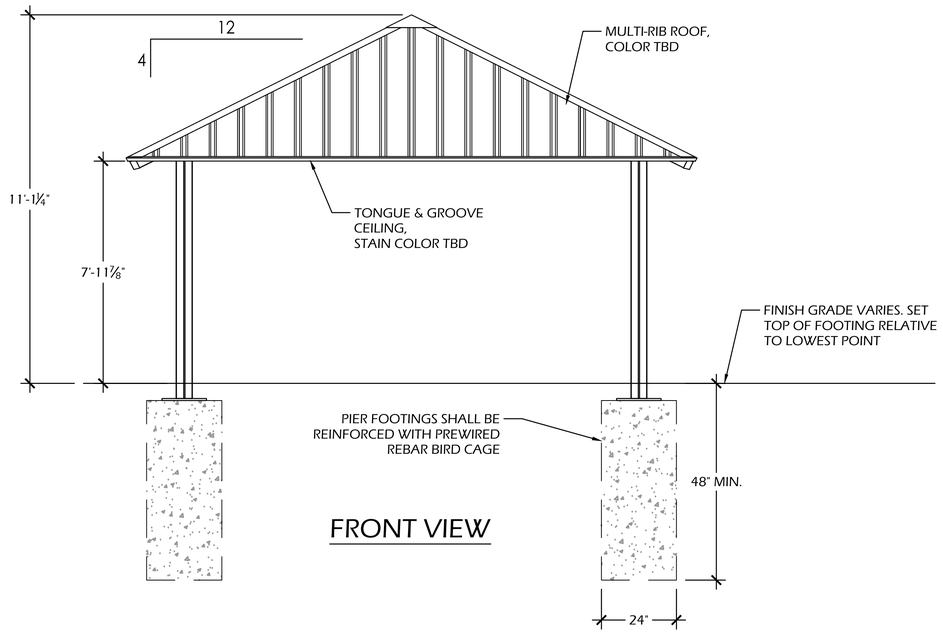
1. PIER FOOTINGS PROVIDED AND INSTALLED BY CONTRACTOR.
2. INSTALL COLUMNS PER MANUFACTURER SHOP SUBMITTALS, NOT PLANS.
3. COLORS FOR POST AND ROOF TO BE SELECTED BY OWNER FROM MANUFACTURER STANDARD OPTIONS.



TOP VIEW



ISOMETRIC VIEW



FRONT VIEW

1 / 01-C8.03 **OPEN AIR SHADE SHELTER**

SCALE: NTS

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CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

Sheet Title: **PARK CONSTRUCTION DETAILS - 3**

Revisions:

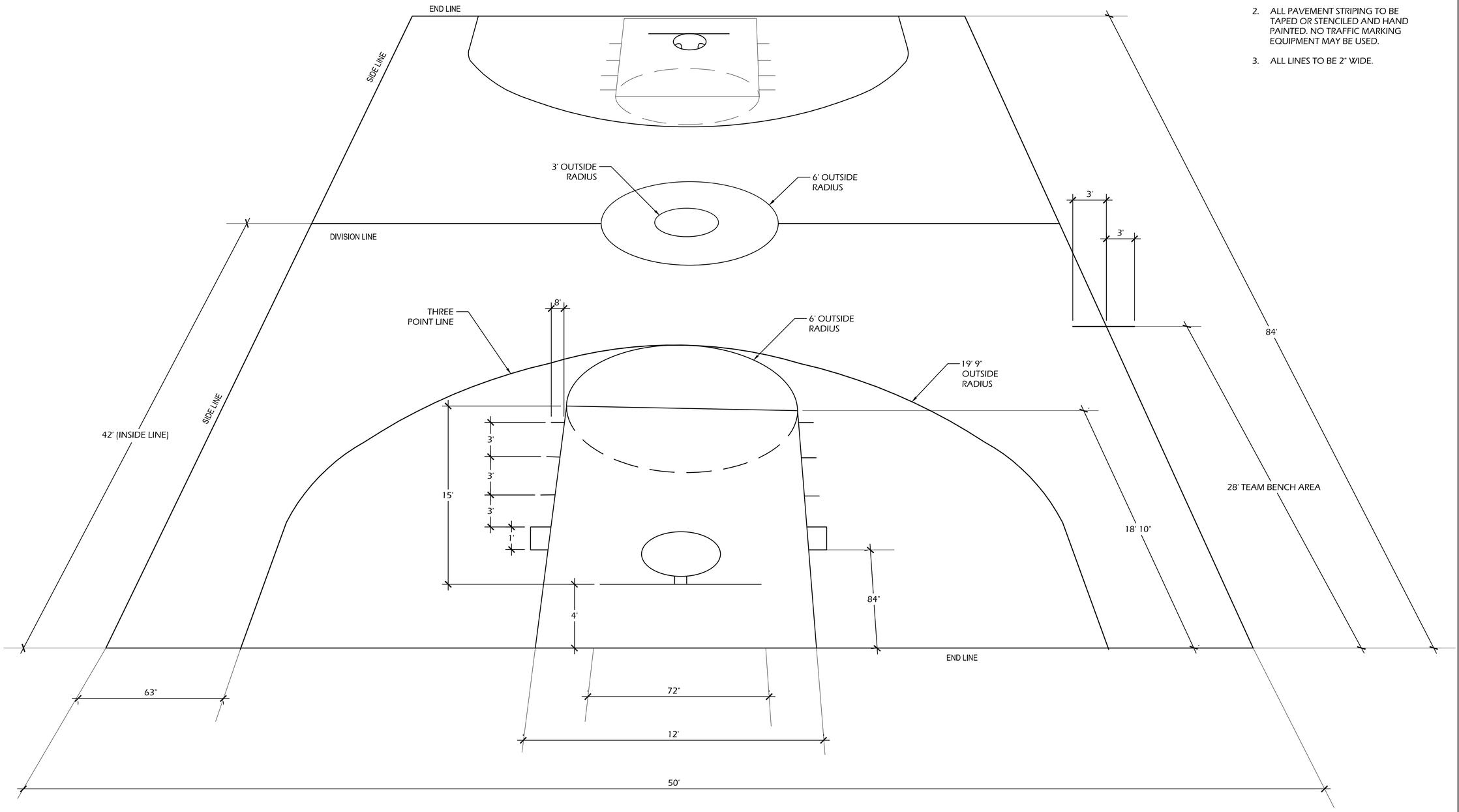
Project #: 24.036
Issued For: Bidding
Date: 7/24/2025

Sheet Number
01-C8.03

File: V:\24.036 Rockford Water Utility Park\CAD\P-D.dwg Layout: 01-C8.03 User: parki Plotted: Jul 18, 2025 - 2:04pm

STRIPING NOTES

1. ALL LINE STRIPING AND PAINTING TO BE TWO COATS OF SHERWIN WILLIAMS TRAFFIC MARKING PAINT.
2. ALL PAVEMENT STRIPING TO BE TAPED OR STENCILED AND HAND PAINTED. NO TRAFFIC MARKING EQUIPMENT MAY BE USED.
3. ALL LINES TO BE 2" WIDE.



TOP PERSPECTIVE

1 / 01-C8.04 **BASKETBALL COURT STRIPING**

SCALE: NTS

ALL WORK SHOWN ON THIS SHEET IS IN ALT BID

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CITY OF ROCKFORD
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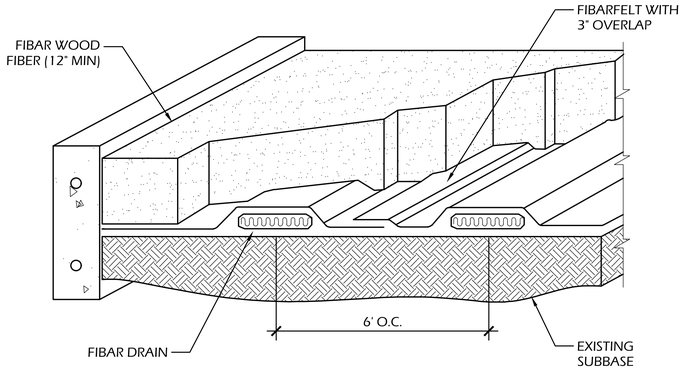
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PARK CONSTRUCTION DETAILS - 4

Revisions:

Project #: 24.036
Issued For: Bidding
Date: 7/24/2025

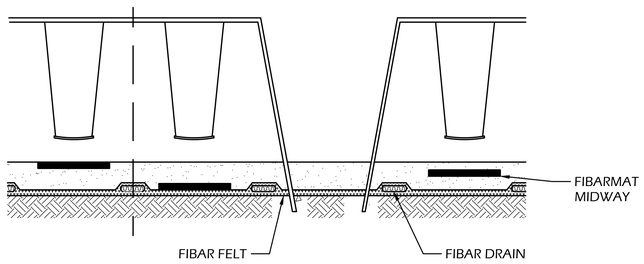
Sheet Number
01-C8.04

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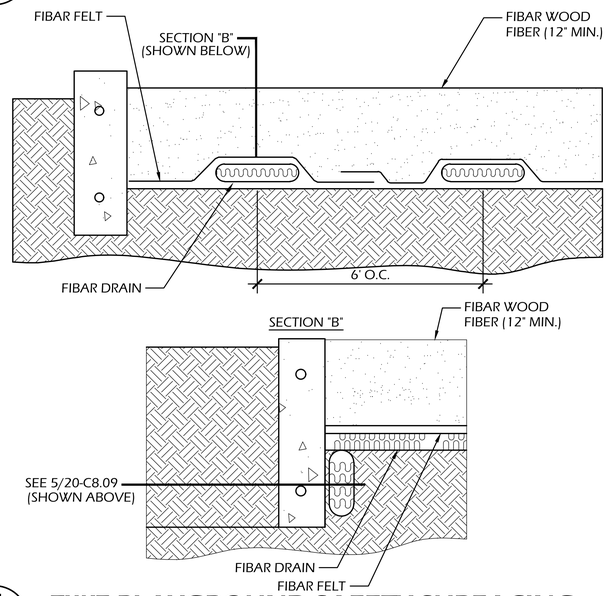
7 EWF PLAYGROUND SAFETY SURFACING

01-C8.05 SCALE: NTS



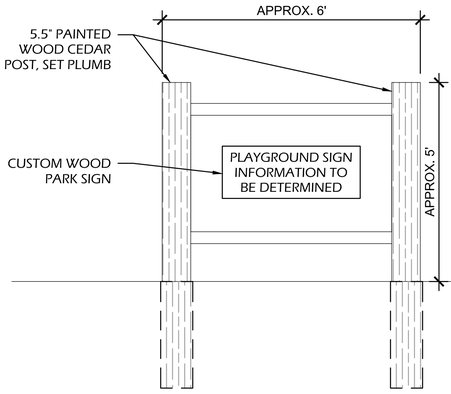
6 EWF PLAYGROUND SAFETY SURFACING

01-C8.05 SCALE: NTS



5 EWF PLAYGROUND SAFETY SURFACING

01-C8.05 SCALE: NTS

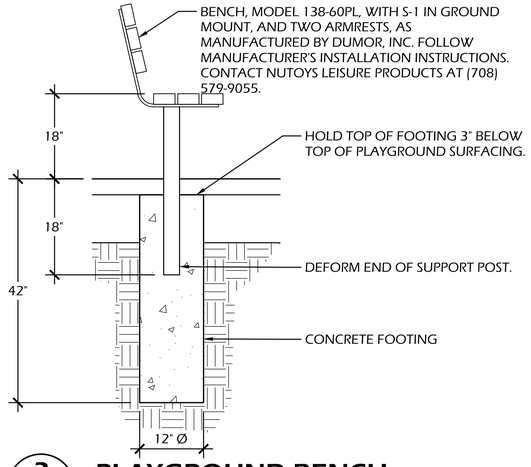




EXISTING PARK
SIGN EXAMPLE

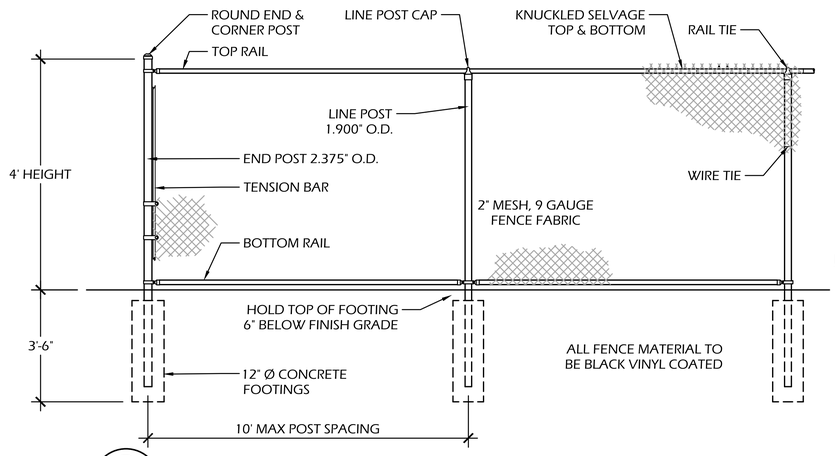
4 PARK SIGNAGE

01-C8.05 SCALE: NTS



3 PLAYGROUND BENCH

01-C8.05 SCALE: NTS



3 VINYL COATED CHAIN LINK FENCE

01-C8.05 SCALE: NTS

Notes:
1- SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.

2- IF THERE IS NO IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.

3- NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED CERTIFIED ARBORIST. THIS INCLUDES ROOTS.

4- NO EQUIPMENT SHALL OPERATE OR MATERIALS BE STORED INSIDE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.

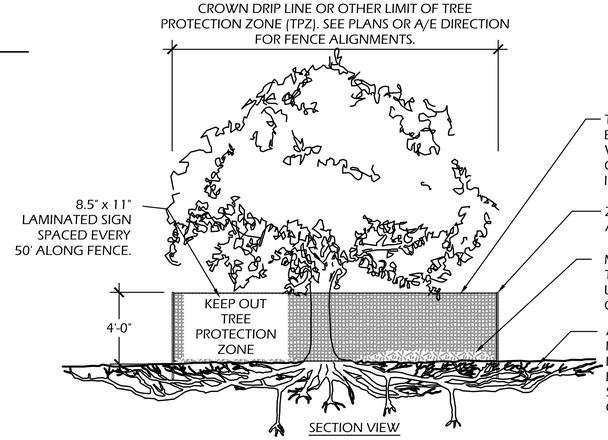
5- SEE LANDSCAPE PLANS FOR ANY MODIFICATIONS WITH THE TPZ.

6- ALL TREE PROTECTION FENCING SHOWN ON PLANS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF CONSTRUCTION AND SHALL BE REMOVED ONLY PER DIRECTION OF THE ENGINEER. THE CONTRACTOR SHALL NOT TRAVERSE NOR STORE ANY MATERIALS OR EQUIPMENT WITHIN THE TREE PROTECTION ZONE.

7- HAND EXCAVATE OR AIR SPADE ONLY WITHIN TREE PROTECTION AREAS.

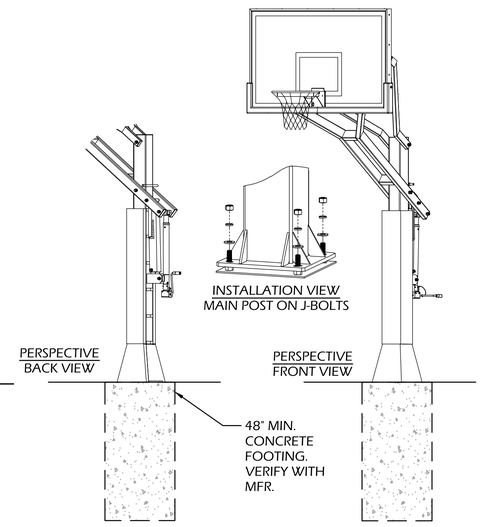
8- CONTRACTOR TO INSTALL PROPOSED TREE PROTECTION AND RECEIVE APPROVAL FROM ENGINEER PRIOR TO START OF CONSTRUCTION. PROTECTION MUST BE COMPLETED PRIOR TO START OF TREE REMOVAL AND CONSTRUCTION, AND REMAIN FOR THE DURATION OF ALL ROADWAY DEMOLITION, EARTHWORK, EXCAVATION, AND CONSTRUCTION ACTIVITIES.

9- FOR DAMAGE OR REMOVAL OF PROTECTED TREES: LIQUIDATED DAMAGES TO BE PAID BY THE CONTRACTOR ON A $300 PER CALIPER INCH BASIS. THE ENGINEER WILL MAKE THE FINAL DETERMINATION REGARDING JUDGEMENT TREE DAMAGE.



2 TREE PROTECTION DETAIL

01-C8.05 SCALE: NTS



NOTES:
1. CLEAR VIEW BACKBOARD, 1" THICK MOLDED VINYL BACKBOARD PADDING.
2. PRESSURE FLEX BREAKAWAY GOAL, EXTENDED WING BRACE AND A DOUBLE SPRING FLEX BREAKAWAY MECHANISM.
3. REINFORCED EXTENSION ARMS.
4. STEEL POLE, 6" SQUARE 3/16" WALL GALVANIZED STEEL.
5. ADJUSTABLE HEIGHT, 6' TO 10' HEIGHT.
6. J-BOLT ANCHOR SYSTEM.
7. ALL WEATHER PROTECTION, HOT DIPPED GALVANIZED STEEL WITH STAINLESS STEEL HARDWARE.
8. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
9. DO NOT SCALE DRAWING.

NOTES:
1. COURT ADJUSTABLE ASSEMBLIES TO BE MODEL D-PRO MAX 645 BY DOUGLAS INDUSTRIES.

1 BASKETBALL ASSEMBLY

01-C8.05 SCALE: NTS

ALL WORK SHOWN ON THIS SHEET IS IN ALT BID

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Project Name:
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CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

Sheet Title:
PARK CONSTRUCTION DETAILS - 5

Revisions:

Project #: 24.036
Issued For: Bidding
Date: 7/24/2025

Sheet Number
01-C8.05

File: V:\24.036 Rockford Water Utility Park\CAD\P-D.dwg Layout: 01-C8.05 User: parki Plotted: Jul 18, 2025 - 2:03pm

PRESTON STREET

TAY STREET

90.3'
5.0'
44.5'
43.0' FENCE
4.3'
30.0' FENCE
6.0'
12.0'
5.0'
43.0' FENCE
8.0'
R15.0'
8.0'
130.0' FENCE
8.0'
R25.0'
115.8'
5.0'
MATCH TO EX. SIDEWALK

6 C8.05 CONCRETE PAVEMENT

3 C8.09 CHAINLINK FENCE

PARK SIGNAGE 4 C8.09

2 C8.09 TREE PROTECTION

26.5'
5.0'
79.5'
8.0'
40.0'
R45.0'
23.4'
R10.0'
5.0'
5.0'
3.0'
8.0'

2 C8.09 TREE PROTECTION

2 C8.09 TREE PROTECTION

1 C9.10 PLAYGROUND EQUIPMENT & SURFACING

5 C8.05 PLAYGROUND CURB

50.0' FENCE
20.0'
64.0'
94.0'

1 C8.09 BASKETBALL ASSEMBLY

1 C8.08 BASKETBALL COURT STRIPING

8 C8.05 ASPHALT PAVEMENT COURTS

5.0'
14.5'
22.0'
4.0'
22.0'

SHADE 1 C8.06 STRUCTURE

6 C8.05 CONCRETE PAVEMENT

3 C8.09 CHAINLINK FENCE

Historic records indicate that 3 houses, now demolished, were present in the footprint of the park and basketball court location. Use unsuitable soils allowance and solid waste allowance as required in the event unsuitable fill material or debris are encountered.

80.0'
70.0'

TREE PROTECTION 2 C8.09

2 C8.09 TREE PROTECTION

SEE CIVIL PLANS FOR CONTINUATION OF SITE PLANS

SITE LAYOUT NOTES

1. CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
2. ALL PROPOSED DIMENSIONS ARE REFERENCED PARALLEL OR PERPENDICULAR TO THE PROPOSED FEATURES SHOWN. WRITTEN DIMENSIONS SUPERSEDE ANY SCALED DIMENSIONS.
3. PROPOSED GRADE AND LEVEL SHALL BE PERIODICALLY REVIEWED IN THE FIELD BY THE OWNER OR A/E.
4. CONCRETE JOINTING IS SHOWN FOR DESIGN INTENT. FINAL SCORING PLANS SHALL BE SUBMITTED TO THE A/E FOR REVIEW AS A SHOP SUBMITTAL.
5. ALL CONCRETE POURS SHALL BE DOWELED TOGETHER UNLESS OTHERWISE APPROVED BY THE A/E.
6. SOD AREAS AS INDICATED ON PLANS. SEED, FERTILIZE, AND CRIMP MULCH ALL GENERAL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS EXCEPT THOSE AREAS INDICATING OTHERWISE. THIS SHALL INCLUDE ANY AREAS OUTSIDE OF THE PROJECT LIMITS THAT ARE DISTURBED BY CONTRACTOR ACTIVITY.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STAKING. DIGITAL PLAN FILES MAY BE AVAILABLE FROM THE A/E.

ALL WORK SHOWN ON THIS SHEET IS IN ALT BID 3

0' 15' 30'

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Project Name:
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CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

Sheet Title:
PARK LAYOUT PLAN

Revisions:

Project #: 24.036
Issued For: Bidding
Date: 7/24/2025

Sheet Number
01-C9.01

File: \\Nas3\projects\24.036 Rockford Water Utility Park\CAD\P-SP.dwg Layout: 01-C9.01 User: Blake Plotted: Jul 18, 2025 - 2:17pm

PRESTON STREET

TAY STREET

MATCH EX. GRADES

1.0% SLOPE

CONNECT TO FIBAR UNDERDRAIN SYSTEM. PROVIDE CLEANOUT OUTSIDE OF CONCRETE CURBING.

ENTIRE PLAY AREA RECEIVES UNDERDRAIN. SEE DETAILS 5-7 ON SHEET C8.09

98'-4" UNDERDRAIN DAYLIGHT WITH TIED SOCK IN SWALE (5 / C8.09)

Historic records indicate that 3 houses, now demolished, were present in the footprint of the park and basketball court location. Use unsuitable soils allowance and solid waste allowance as required in the event unsuitable fill material or debris are encountered.

SITE GRADING NOTES

1. ALL BIDDERS SHOULD VISIT THE SITE PRIOR TO SUBMITTING A BID AND REVIEW THE EXISTING CONDITIONS OF THE SITE.
2. CONTACT DIGGER'S HOTLINE A MINIMUM OF 5 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
3. GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE OWNER OR A/E.
4. ALL EXISTING STRUCTURES AND/OR UTILITIES WHICH ARE NOT SHOWN ON THESE DOCUMENTS WHICH NEED TO BE REMOVED, RELOCATED, AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE CONTRACTOR AND INCLUDED IN THE BASE BID.
5. CONTOUR INTERVAL SHOWN SHALL BE CONSTRUED AS FINISH GRADE AND REPRESENTS ONE VERTICAL FOOT.
6. ALL HARDSCAPE SURFACES SHALL NOT EXCEED 5% RUNNING OR 2% CROSS SLOPES UNLESS OTHERWISE INDICATED.
7. ALL TURF AREAS SHALL MAINTAIN A MINIMUM SLOPE OF 2% UNLESS OTHERWISE INDICATED.

SPOT GRADE LEGEND

Pxxx.xx	PROPOSED GRADE
RIMxxx.xx	STRUCTURE RIM GRADE
Exxx.xx	EXISTING GRADE

ALL WORK SHOWN ON THIS SHEET IS IN ALT BID 3

0' 15' 30'

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CITY OF ROCKFORD
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Sheet Title:
PARK GRADING PLAN

Revisions:

Project #: 24.036
Issued For: Bidding
Date: 7/24/2025

Sheet Number
01-C9.02

File: \\Nas3\projects\24.036 Rockford Water Utility Park\CAD\P-SP.dwg Layout: 01-C9.02 User: Blake Plotted: Jul 18, 2025 - 2:16pm

SEE SHEET
C9.01 FOR
SITE LAYOUT

EX. TREE, TYP.

EQUIPMENT LIST AND
LAYOUT SHOWN ON
C9.11

5 C8.05 PLAYGROUND CURB

5 C8.09 EWF SAFETY SURFACING

INS #9
64

PM

48"

16"

96" SW

92 - 96
96" SW

ROOFS CANNOT ATTACH
TO ROPE TOWER

ING ONLY

ADD-ON (EXTENSION)
GOT BASE? CAUSE IT'S ALL ABOUT THE BASE!

DO NOT DELETE
BASE FRAME
Add Crab Leg)
or Add-On (Extension)

CANNOT SHARE BAY WITH BELT OR DURAGLIDE SEAT

CANNOT SHARE BAY WITH TOT OR GENERATION SEAT

ALL WORK SHOWN ON
THIS SHEET IS IN ALT BID 3

0' 5' 10'

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Sheet Title:
PLAYGROUND EQUIPMENT PLAN - 1

Revisions:

Project #: 24.036
Issued For: Bidding
Date: 7/24/2025

Sheet Number
01-C9.10

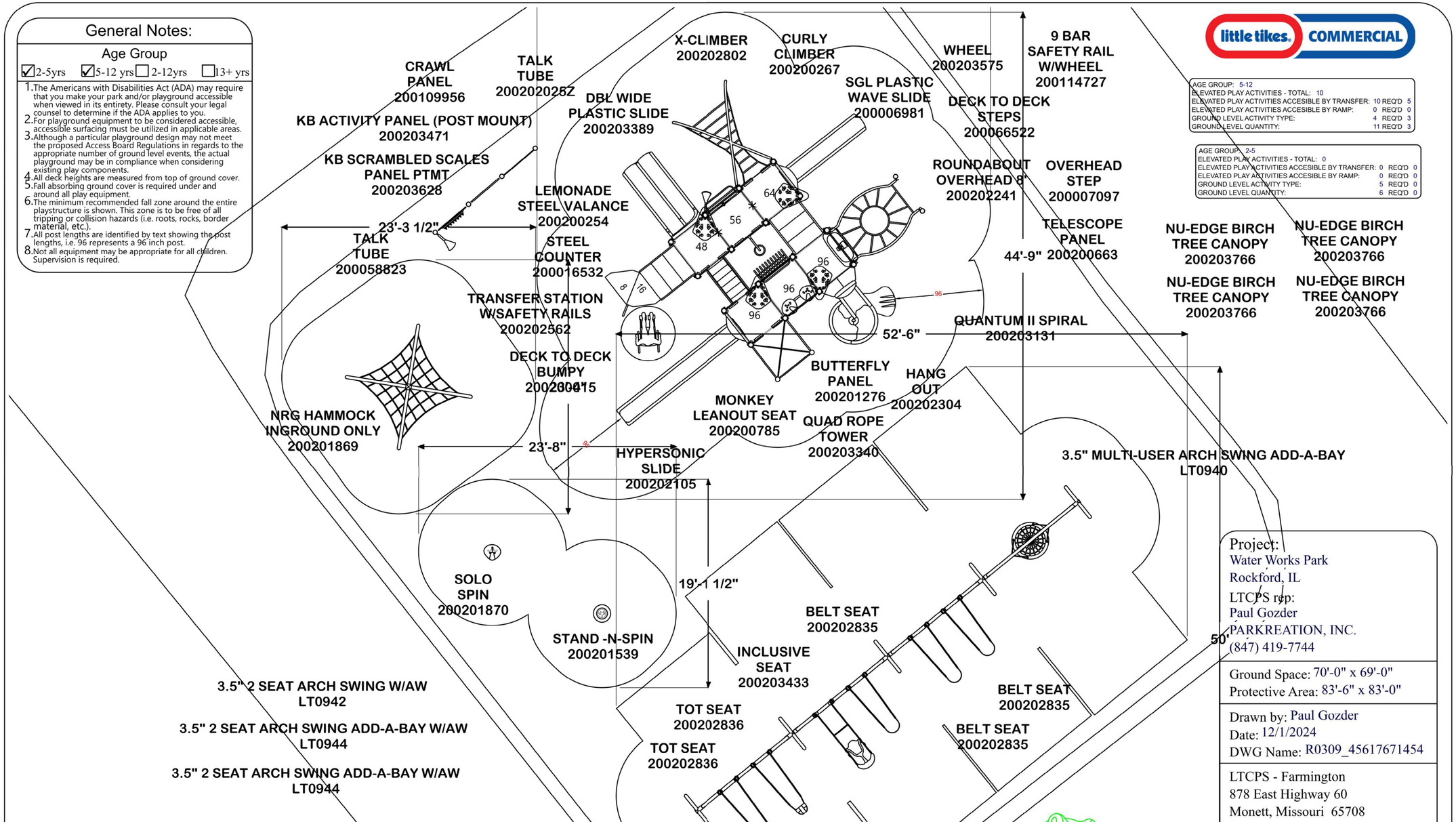
File: \\Nas3\projects\24.036 Rockford Water Utility Park\CAD\P-SP.dwg Layout: 01-C9.10 User: Blake Plotted: Jul 18, 2025 – 2:15pm

General Notes:

Age Group

☑ 2-5yrs ☑ 5-12 yrs ☐ 2-12yrs ☐ 13+ yrs

1. The Americans with Disabilities Act (ADA) may require that you make your park and/or playground accessible when viewed in its entirety. Please consult your legal counsel to determine if the ADA applies to you.
2. For playground equipment to be considered accessible, accessible surfacing must be utilized in applicable areas.
3. Although a particular playground design may not meet the proposed Access Board Regulations in regards to the appropriate number of ground level events, the actual playground may be in compliance when considering existing play components.
4. All deck heights are measured from top of ground cover.
5. Fall absorbing ground cover is required under and around all play equipment.
6. The minimum recommended fall zone around the entire playstructure is shown. This zone is to be free of all tripping or collision hazards (i.e. roots, rocks, border material, etc.).
7. All post lengths are identified by text showing the post lengths, i.e. 96 represents a 96 inch post.
8. Not all equipment may be appropriate for all children. Supervision is required.



little tikes COMMERCIAL

AGE GROUP: 5-12
ELEVATED PLAY ACTIVITIES - TOTAL: 10
ELEVATED PLAY ACTIVITIES ACCESIBLE BY TRANSFER: 10 REQ'D 5
ELEVATED PLAY ACTIVITIES ACCESIBLE BY RAMP: 0 REQ'D 0
GROUND LEVEL ACTIVITY TYPE: 4 REQ'D 3
GROUND LEVEL QUANTITY: 11 REQ'D 3

AGE GROUP: 2-5
ELEVATED PLAY ACTIVITIES - TOTAL: 0
ELEVATED PLAY ACTIVITIES ACCESIBLE BY TRANSFER: 0 REQ'D 0
ELEVATED PLAY ACTIVITIES ACCESIBLE BY RAMP: 0 REQ'D 0
GROUND LEVEL ACTIVITY TYPE: 5 REQ'D 0
GROUND LEVEL QUANTITY: 6 REQ'D 0

Playground Layout Compliance:

☑ ASTM F1487 - Playground Equipment for Public Use.
☑ CPSC Handbook for Public Playground Safety

☑ This playground design meets the final Access Board Regulations.

IPEMA CERTIFIED ASTM F1487 — To verify product certification, visit www.ipema.org

The play components identified in this plan are IPEMA certified.The use and layout of these components conform to the requirements of ASTM F1487.

LEED points for this structure: 1

ALL WORK SHOWN ON THIS SHEET IS IN ALT BID 3

0' NTS

PARKITECTURE + PLANNING
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Madison,WI.53717
608.203.8203
Parkitecture

Project:
Water Works Park
Rockford, IL
LTCPS rep:
Paul Gozder
PARKREATION, INC.
(847) 419-7744

Ground Space: 70'-0" x 69'-0"
Protective Area: 83'-6" x 83'-0"

Drawn by: Paul Gozder
Date: 12/1/2024
DWG Name: R0309_45617671454

LTCPS - Farmington
878 East Highway 60
Monett, Missouri 65708
Voice: 1-800-325-8828
Fax: 417-354-2273

Project Name: WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
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WINNEBAGO COUNTY, ILLINOIS

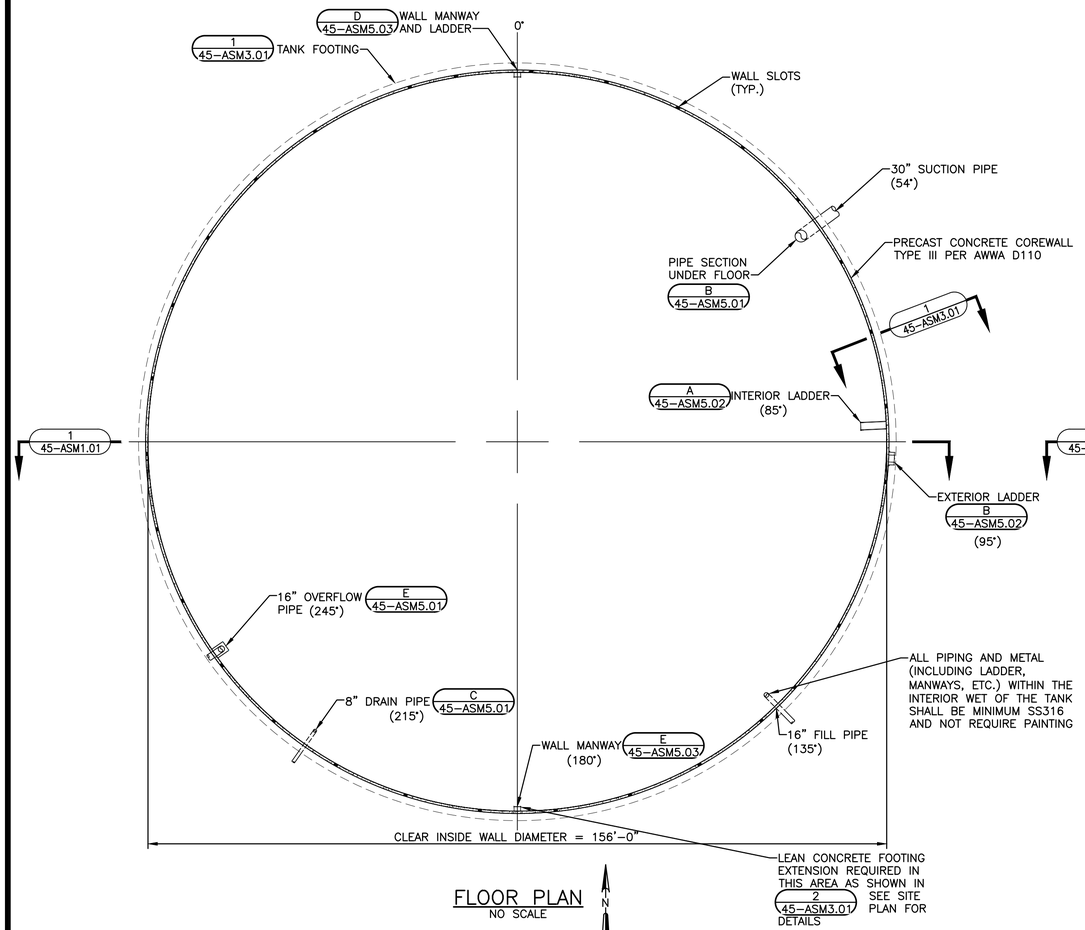
Sheet Title: PLAYGROUND EQUIPMENT PLAN - 2

Revisions:

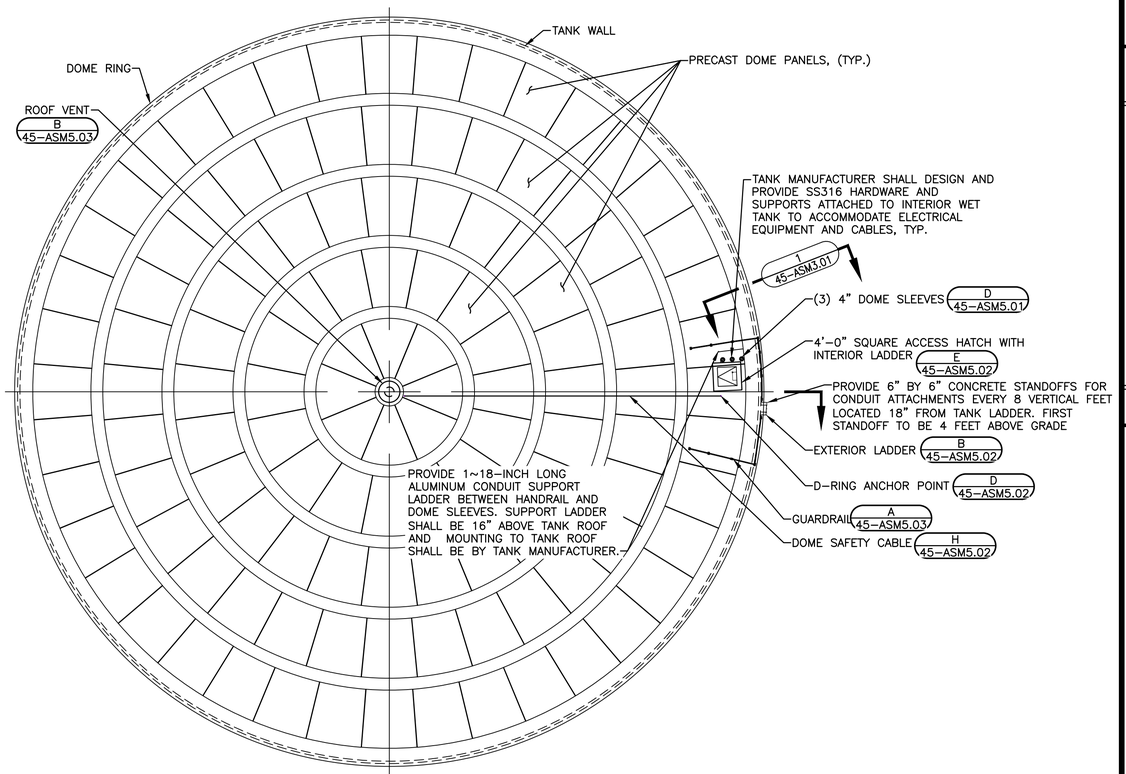
Project #: 24.036
Issued For: Bidding
Date: 7/24/2025

Sheet Number
01-C9.11

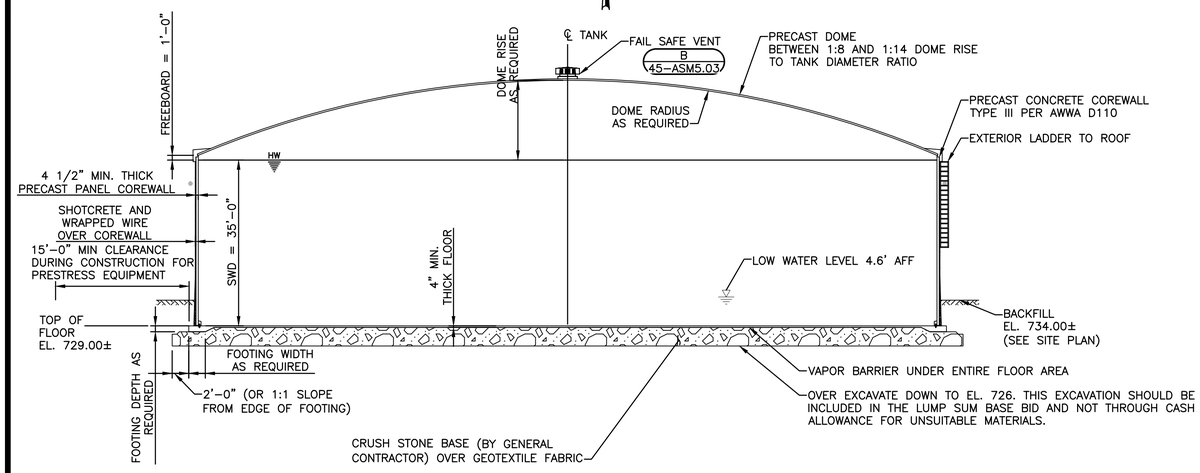
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FLOOR PLAN
NO SCALE



ROOF PLAN
NO SCALE



1
45-ASM1.01
TANK SECTION
NO SCALE

GENERAL NOTES:

1. ALL DIMENSIONS SHOWN ARE MINIMUM REQUIREMENTS. TANK CONTRACTOR, AS DEFINED IN THE SPECIFICATIONS, TO VERIFY DIMENSIONS WITH STRUCTURAL CALCULATIONS.

NO.	REVISIONS	DATE:
-	ISSUED FOR BID	07/24/2025

RESERVOIR ROOF AND FLOOR PLANS AND SECTION

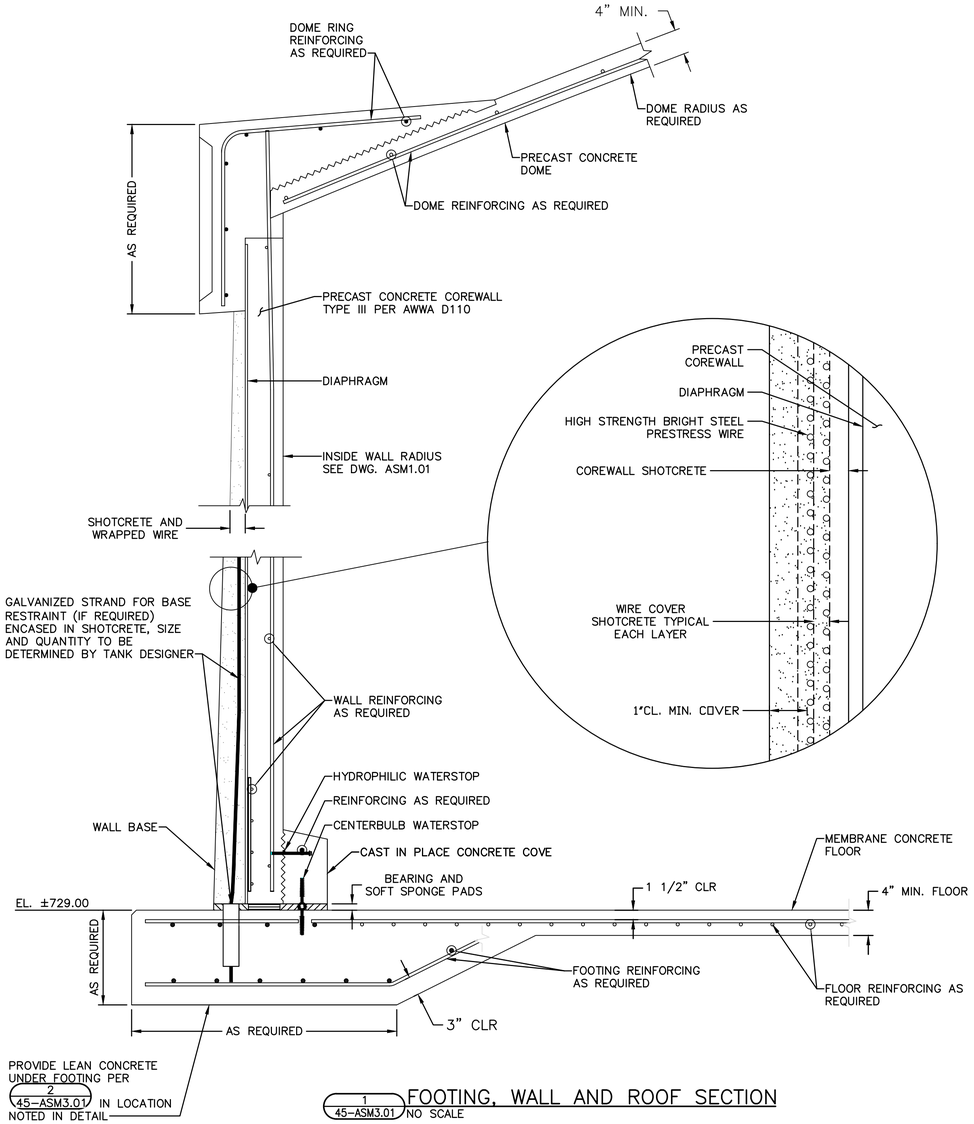
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO.
1110.037

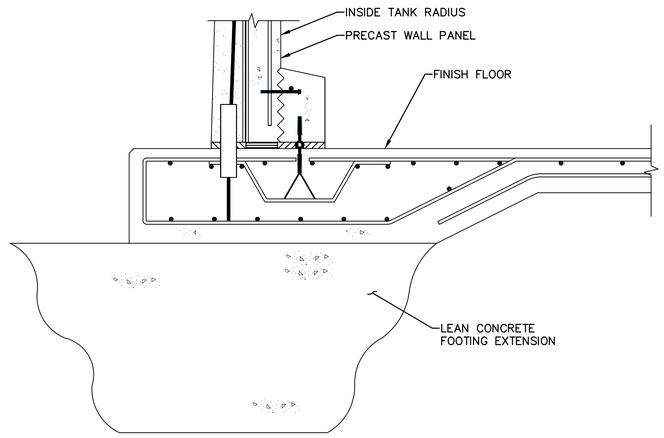
PROJECT MGR.
RYAN WOOD

STRAND ASSOCIATES®

SHEET
35
45-ASM1.01



1/45-ASM3.01 FOOTING, WALL AND ROOF SECTION
NO SCALE



2/45-ASM3.01 LEAN CONCRETE FOOTING EXTENSION
NO SCALE

NOTES:

1. LEAN CONCRETE FOOTING EXTENSION TO ONLY BE USED IN DESIGNATED LOCATIONS WHERE PROPOSED GRADE LEAVES TANK WALL IS NOT BURIED AT LEAST 5 FEET.
2. BOTTOM EXTENT OF LEAN CONCRETE FOOTING EXTENSION IS TO EQUAL A MINIMUM OF 5 FEET BELOW GRADE.

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

RESERVOIR SECTIONS AND DETAILS

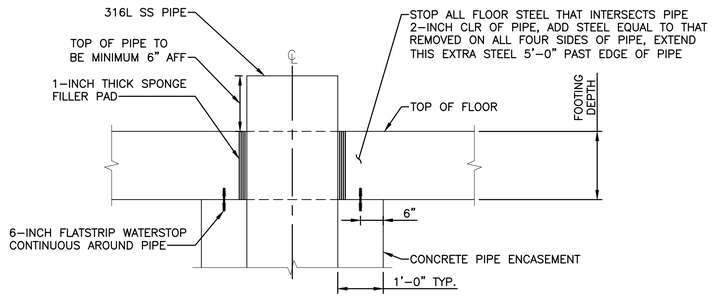
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037
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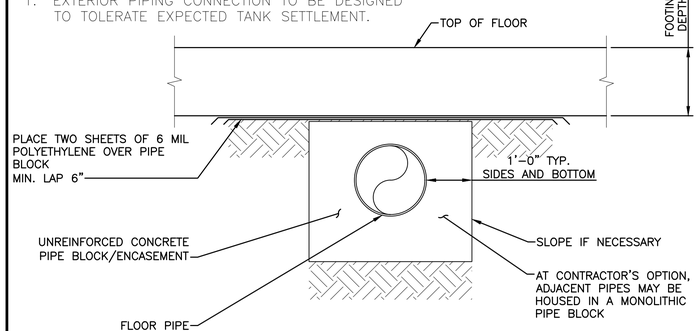
SHEET 36
45-ASM3.01

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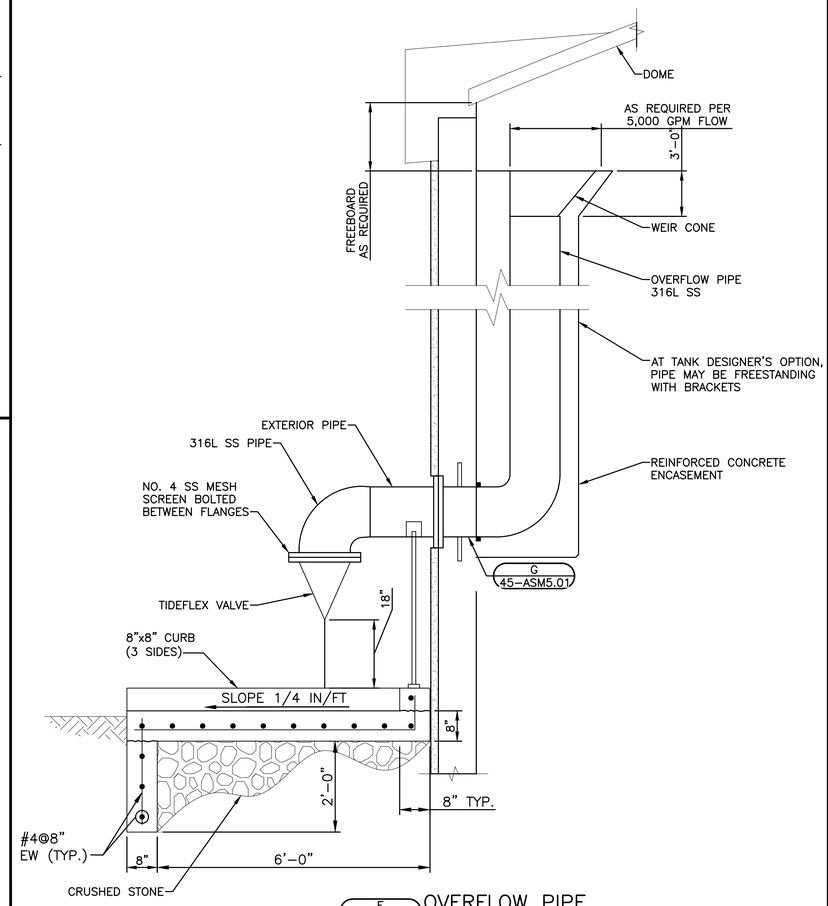


A 45-ASM5.01 TYPICAL FLOOR PIPE ENTRANCE NO SCALE

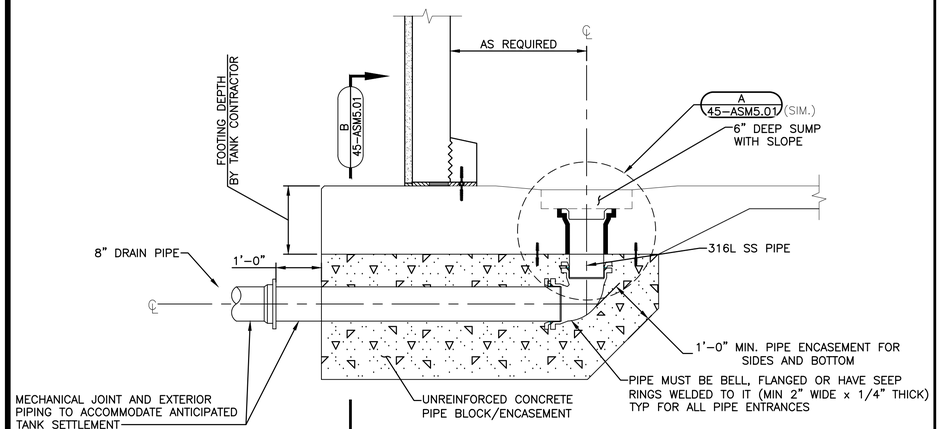
PIPING NOTES:
1. EXTERIOR PIPING CONNECTION TO BE DESIGNED TO TOLERATE EXPECTED TANK SETTLEMENT.



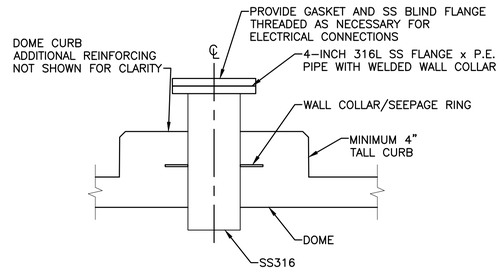
B 45-ASM5.01 PIPE SECTION NO SCALE



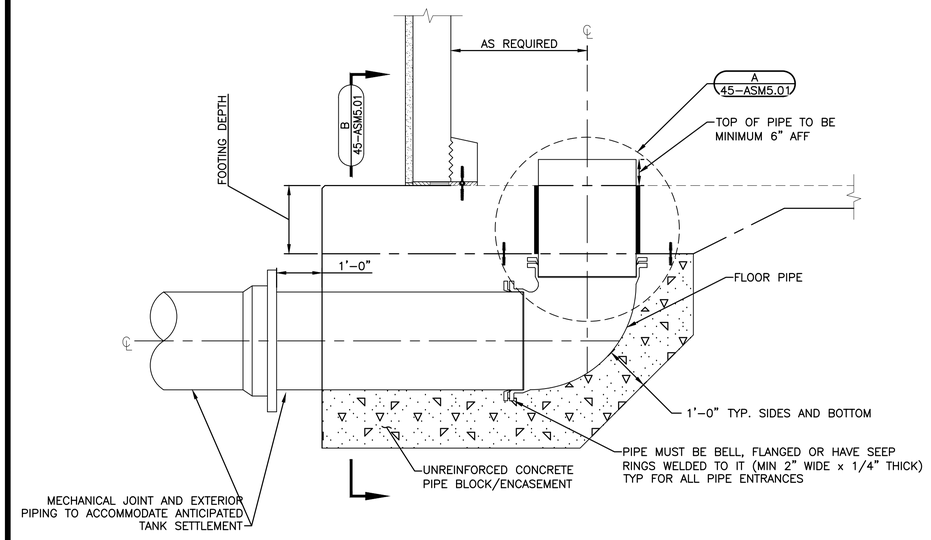
E 45-ASM5.01 OVERFLOW PIPE NO SCALE



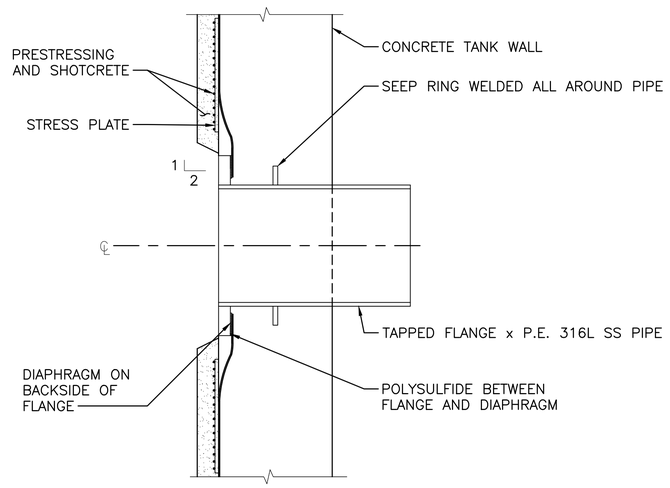
C 45-ASM5.01 DRAIN PIPE NO SCALE



D 45-ASM5.01 DOME SLEEVE NO SCALE



F 45-ASM5.01 SUCTION PIPE (FLOOR) NO SCALE



G 45-ASM5.01 TYPICAL WALL PIPE ENTRANCE NO SCALE

NO.	REVISIONS	DATE:
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DETAILS - 1

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

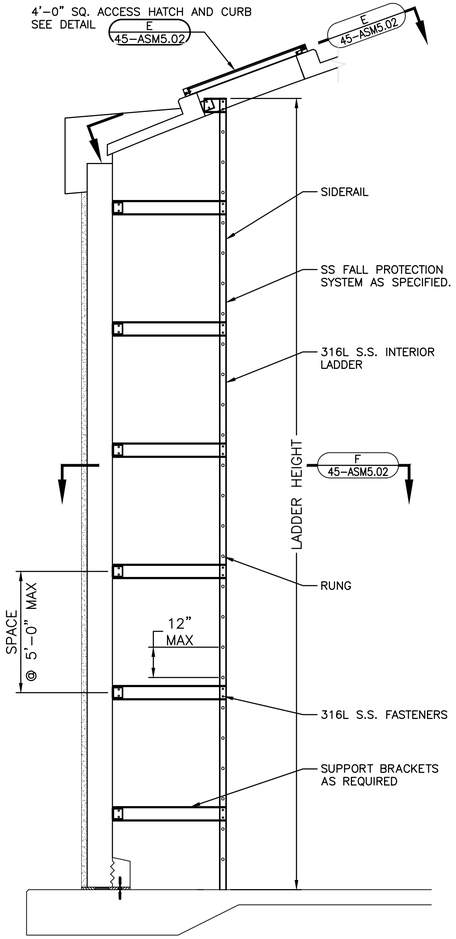
JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

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SHEET 37 45-ASM5.01

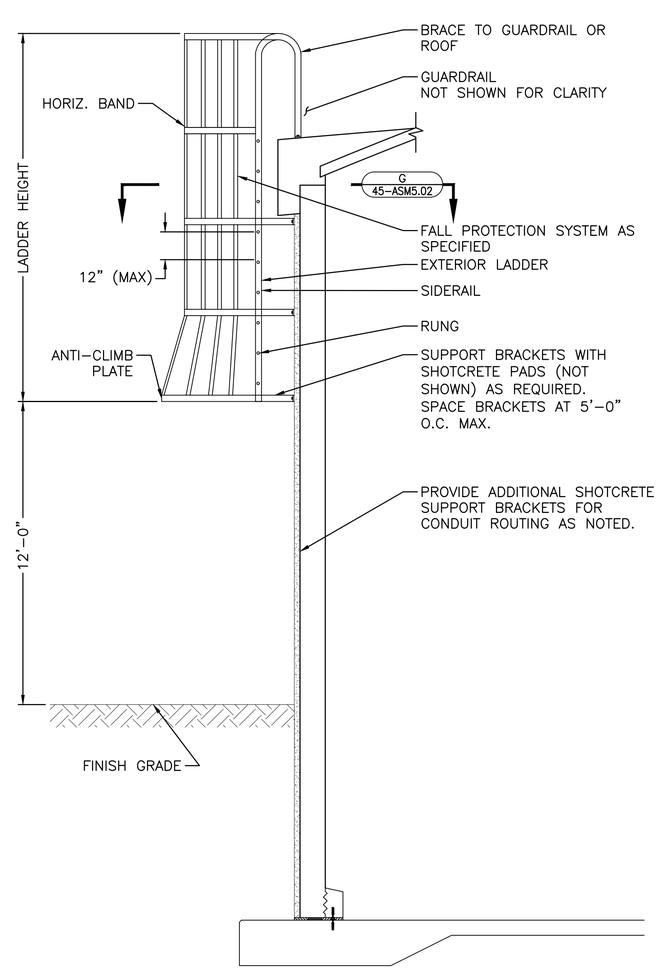
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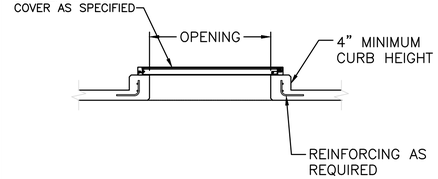
GENERAL NOTES:

1. CONTRACTOR MAY USE TANK MANUFACTURER'S STANDARD INTERIOR TANK LADDER DETAIL AS LONG AS IT GENERALLY CONFORMS TO THIS DETAIL AND USES 316LSS MATERIAL, FASTENERS, AND SUPPORTS.

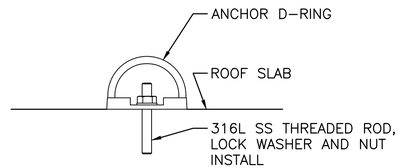
A 45–ASM5.02 INTERIOR LADDER NO SCALE



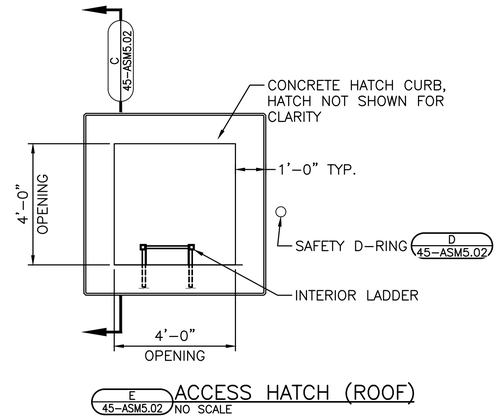
B 45–ASM5.02 EXTERIOR LADDER NO SCALE



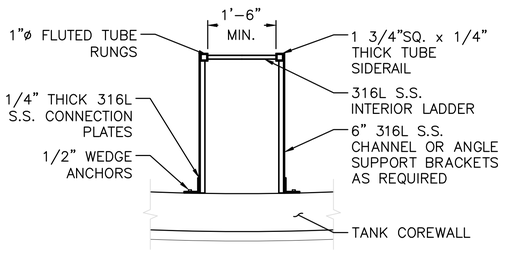
SECTION C 45–ASM5.02 NO SCALE



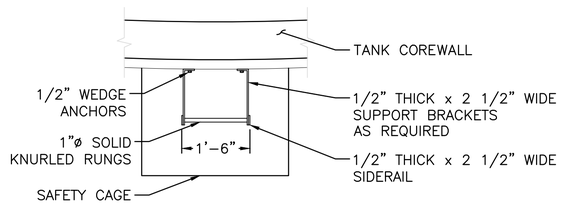
D 45–ASM5.02 SAFETY D–RING NO SCALE



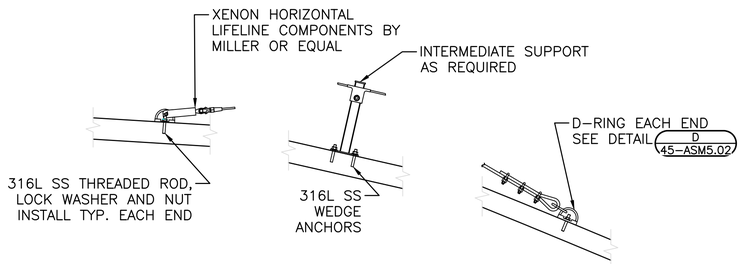
E 45–ASM5.02 ACCESS HATCH (ROOF) NO SCALE



F 45–ASM5.02 INTERIOR LADDER SECTION NO SCALE



G 45–ASM5.02 EXTERIOR LADDER SECTION NO SCALE



H 45–ASM5.02 SAFETY CABLE NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

DETAILS - 2

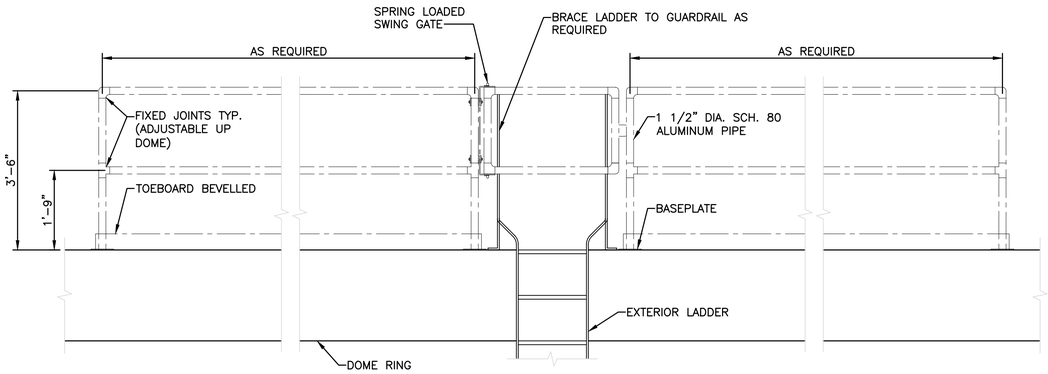
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

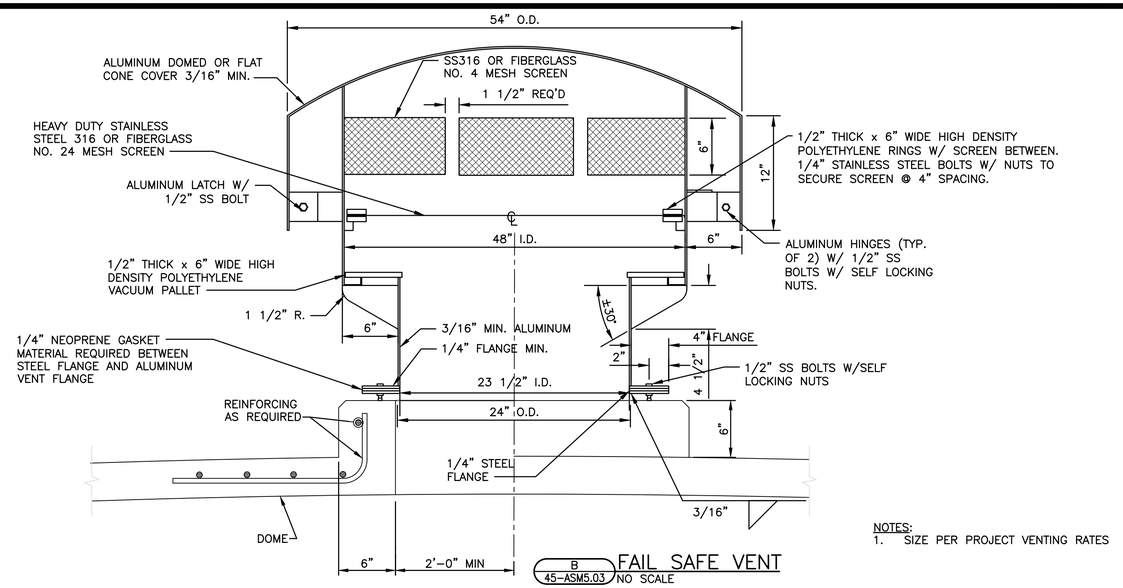
STRAND ASSOCIATES®

SHEET 38
45-ASM5.02



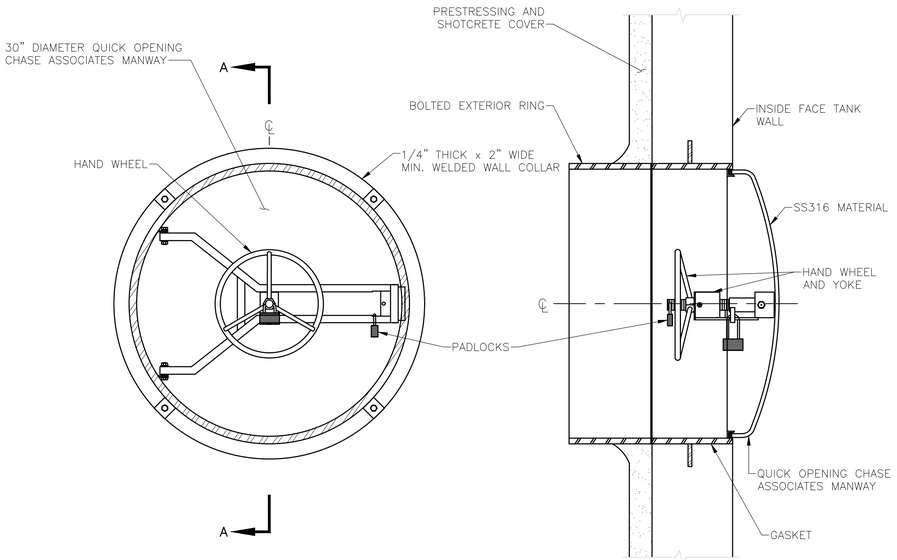
GUARDRAIL NOTES:
1) HOLLAENDER BEVELED TOE BOARD SHALL BE ATTACHED TO FRONT RAIL.
2) GUARDRAIL SYSTEM SHALL MEET OSHA PERFORMANCE STANDARDS.

A / 45-ASM5.03 GUARDRAIL ELEVATION
NO SCALE

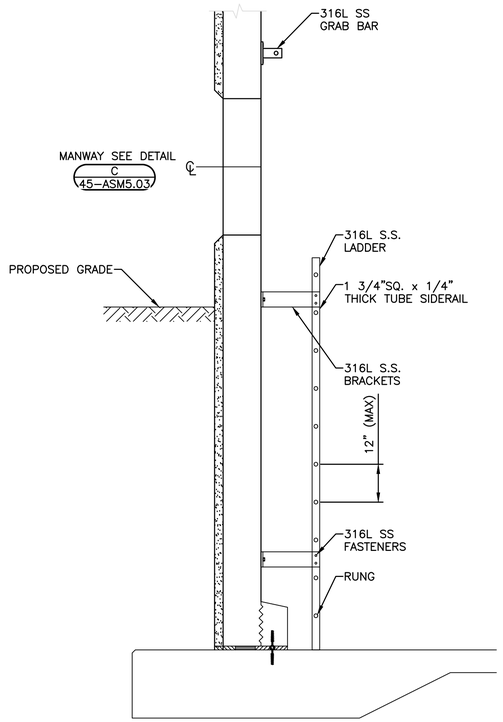


NOTES:
1. SIZE PER PROJECT VENTING RATES

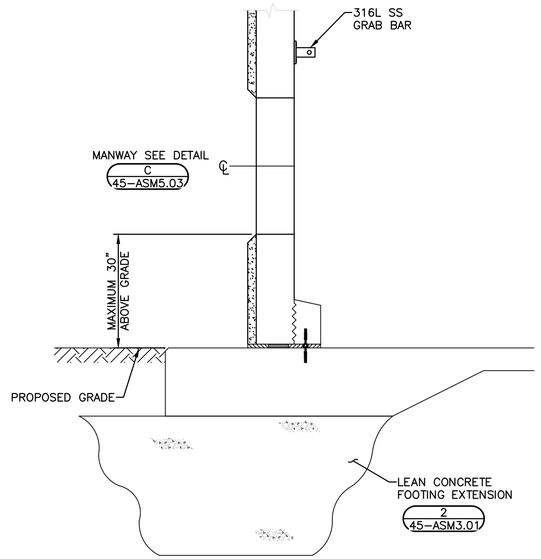
B / 45-ASM5.03 FAIL SAFE VENT
NO SCALE



C / 45-ASM5.03 WALL MANWAY
NO SCALE



D / 45-ASM5.03 MANWAY WITH INTERIOR LADDER
NO SCALE



E / 45-ASM5.03 MANWAY WITH NO INTERIOR LADDER
NO SCALE

NO.	REVISIONS	DATE:
-	ISSUED FOR BID	07/24/2025

DETAILS - 3

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037
PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 39
45-ASM5.03

GENERAL NOTES:

1. REFER TO SPECIFICATION SECTION 26 09 00 FOR WIRING ASSOCIATED WITH THE SCADA SYSTEM.
2. CIRCUIT NUMBERS SHOWN ON THIS DRAWING INDICATES WHICH LOADS SHALL BE ON THE SAME CIRCUIT AND DO NOT INDICATED WHICH LIGHTING PANEL BRANCH CIRCUIT NUMBER IS ASSOCIATED WITH THE LOAD.
3. ALL 120V EQUIPMENT ON THIS SHEET SHALL BE POWERED BY 45–LP–1. SEE SHEET 01–E4.01 FOR LOCATION OF 45–LP–1.

KEY NOTES:

(1) MOUNT CONVENIENCE RECEPTACLE, MIXER DISCONNECT, AND JUNCTION BOXES ON HANDRAIL AS SHOWN IN DETAIL A 99–E6.01.

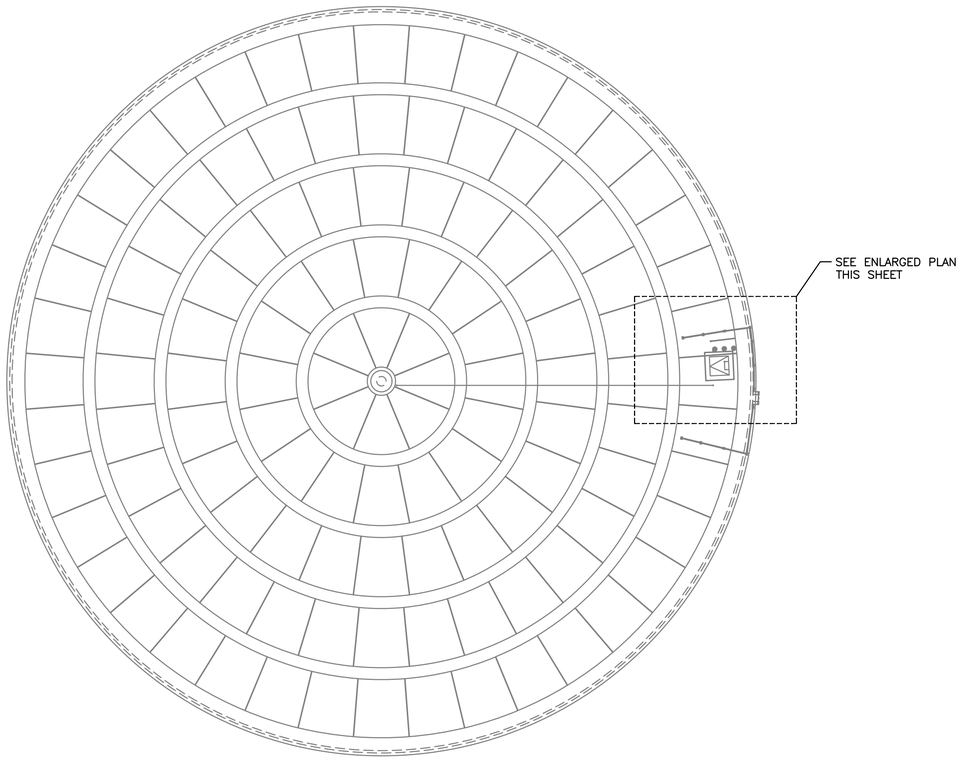
(2) PROVIDE MANUFACTURER–FURNISHED CABLE IN 3/4" CONDUIT FROM NEMA 4X JUNCTION BOX TO DOME SLEEVE.

(3) PROVIDE MANUFACTURER–FURNISHED CABLE IN FREE AIR FROM NEMA 4X JUNCTION BOX TO DOME SLEEVE. PROVIDE CABLE GLAND FITTING AT DOME SLEEVE FOR SUPPORT OF THE TRANSMITTER.

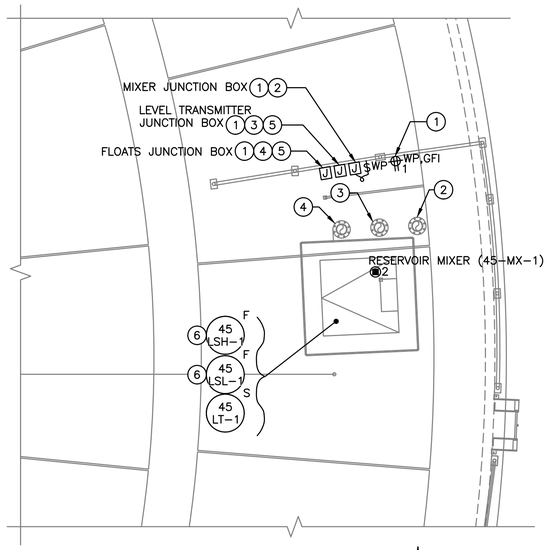
(4) PROVIDE BOTH FLOW SWITCH CABLES IN 1 1/2" CONDUIT FROM NEMA 4X JUNCTION BOX TO DOME SLEEVE.

(5) JUNCTION BOX FURNISHED BY SECTION 26 09 00 SYSTEM SUPPLIER.

(6) CONTRACTOR SHALL PROVIDE 2~3/8 INCH 316 STAINLESS STEEL HOOKS ANCHORED TO UNDERSIDE OF THE TOP OF THE TANK. ONE HOOK SHALL BE FOR SUPPORT OF THE STAINLESS STEEL FLOAT SUPPORT CABLE. FLOAT SWITCHES SHALL BE ATTACHED TO THE SUPPORT CABLE. KELLUM GRIP CABLE SUPPORTS SHALL BE ATTACHED TO THE SECOND HOOK FOR SUPPORT OF THE FLOAT SWITCH CABLES.



ROOF PLAN
NO SCALE



ENLARGED ROOF PLAN
0 1' 2' 4' 8'

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

RESERVOIR ELECTRICAL PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

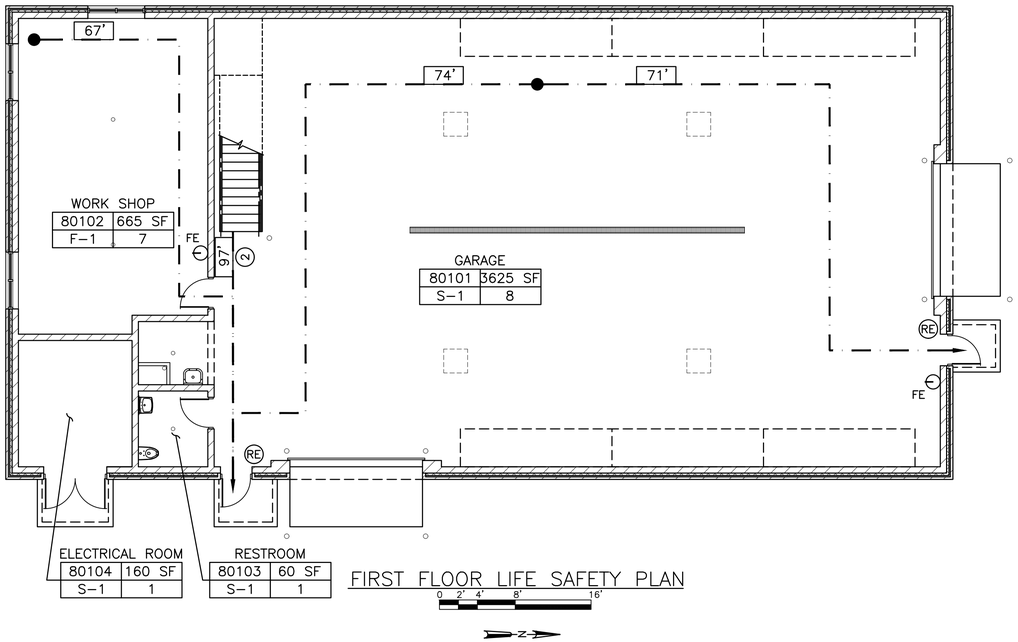
JOB NO.
1110.037

PROJECT MGR.
RYAN WOOD

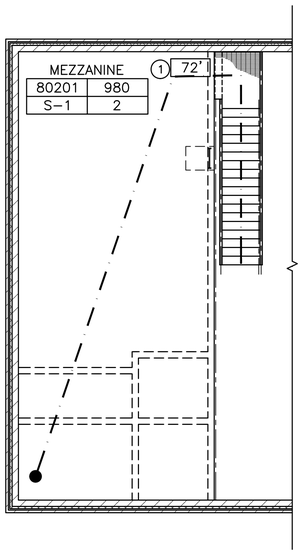
STRAND ASSOCIATES®

SHEET
40
45-E1.01

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FIRST FLOOR LIFE SAFETY PLAN



MEZZANINE LIFE SAFETY PLAN

0 2' 4' 8' 16'

BUILDING CODE INFORMATION - MAINTENANCE GARAGE

BUILDING CODE	2021 INTERNATIONAL BUILDING CODE (WITH LOCAL AMENDMENTS)
	2021 INTERNATIONAL EXISTING BUILDING CODE (WITH LOCAL AMENDMENTS)
	2021 INTERNATIONAL FIRE CODE (WITH LOCAL AMENDMENTS)
	2021 INTERNATIONAL FUEL GAS CODE (WITH LOCAL AMENDMENTS)
	2021 INTERNATIONAL MECHANICAL CODE (WITH LOCAL AMENDMENTS)
	2021 ILLINOIS STATE ENERGY CODE (WITH LOCAL AMENDMENTS)
	2014 ILLINOIS PLUMBING CODE (WITH LOCAL AMENDMENTS)
	2020 NFPA 70 NATIONAL ELECTRICAL CODE (WITH LOCAL AMENDMENTS)
	2017 ICC A117.1 (ADA)

SCOPE OF WORK:

CONSTRUCTION OF 1-STORY 5,000 SF MAINTENANCE GARAGE AND WORK SHOP.

OCCUPANCY TYPE	SEPARATED[1]
USE GROUPS	F-1 (MODERATE-HAZARD FACTORY INDUSTRIAL)
	S-1 (MODERATE-HAZARD STORAGE)
CONSTRUCTION TYPE	2B

OCCUPANCY SEPARATION	NONE REQUIRED[1]

GENERAL BUILDING INFORMATION

	ALLOWABLE		ACTUAL
NO. OF STORIES	2 STORIES		1 STORY
HEIGHT	55 FEET		± 22'-8"
AREA PER FLOOR LEVEL			
F-1	15,500 SF		665 SF
S-1	17,500 SF		3,880 SF
		TOTAL ACTUAL BUILDING AREA	5,000 SF
ALLOWABLE BUILDING AREA RATIO	(665 SF / 15,500 SF) + (3,880 SF / 17,500 SF) = 0.26		
MEZZANINE	1,535 SF		980 SF

FIRE SUPPRESSION SYSTEM : NONE PROVIDED

PORTABLE FIRE EXTINGUISHERS; RATED CLASS A, B, C 10-POUND CAPACITY.

NUMBER OF OCCUPANTS

FUCTION OF SPACE	OCCUPANT LOAD FACTOR
ACCESSORY STORAGE AREAS, MECH. EQUIP. ROOM	300 GROSS
INDUSTRIAL AREAS	100 GROSS
WAREHOUSES	500 GROSS
ACTUAL NUMBER OF OCCUPANTS	ZERO PERMANENT OCCUPANTS. ONLY PRESENT FOR MAINTENANCE AND OPERATION.

MEANS OF EGRESS

USE GROUP	COMMON PATH	EXIT ACCESS	
F-1	75 FEET	200 FEET	
S-1	100 FEET	200 FEET	

NOTES:

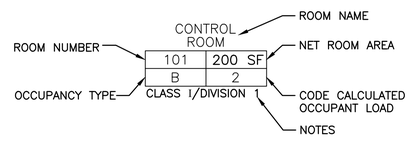
1. NO SEPARATION REQUIRED BETWEEN PER TABLE 508.4.

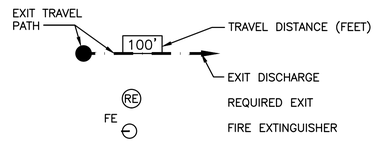
KEY NOTES:

(1) COMMON PATH OF TRAVEL DISTANCE TO BOTTOM OF STAIR.

(2) EXIT ACCESS TRAVEL DISTANCE FROM STARTING POINT ON MEZZANINE TO EAST EXIT DOOR.

LIFE SAFETY LEGEND





DATE: 07/24/2025

REVISIONS

NO. 1 ISSUED FOR BID

LIFE SAFETY PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

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1110.037

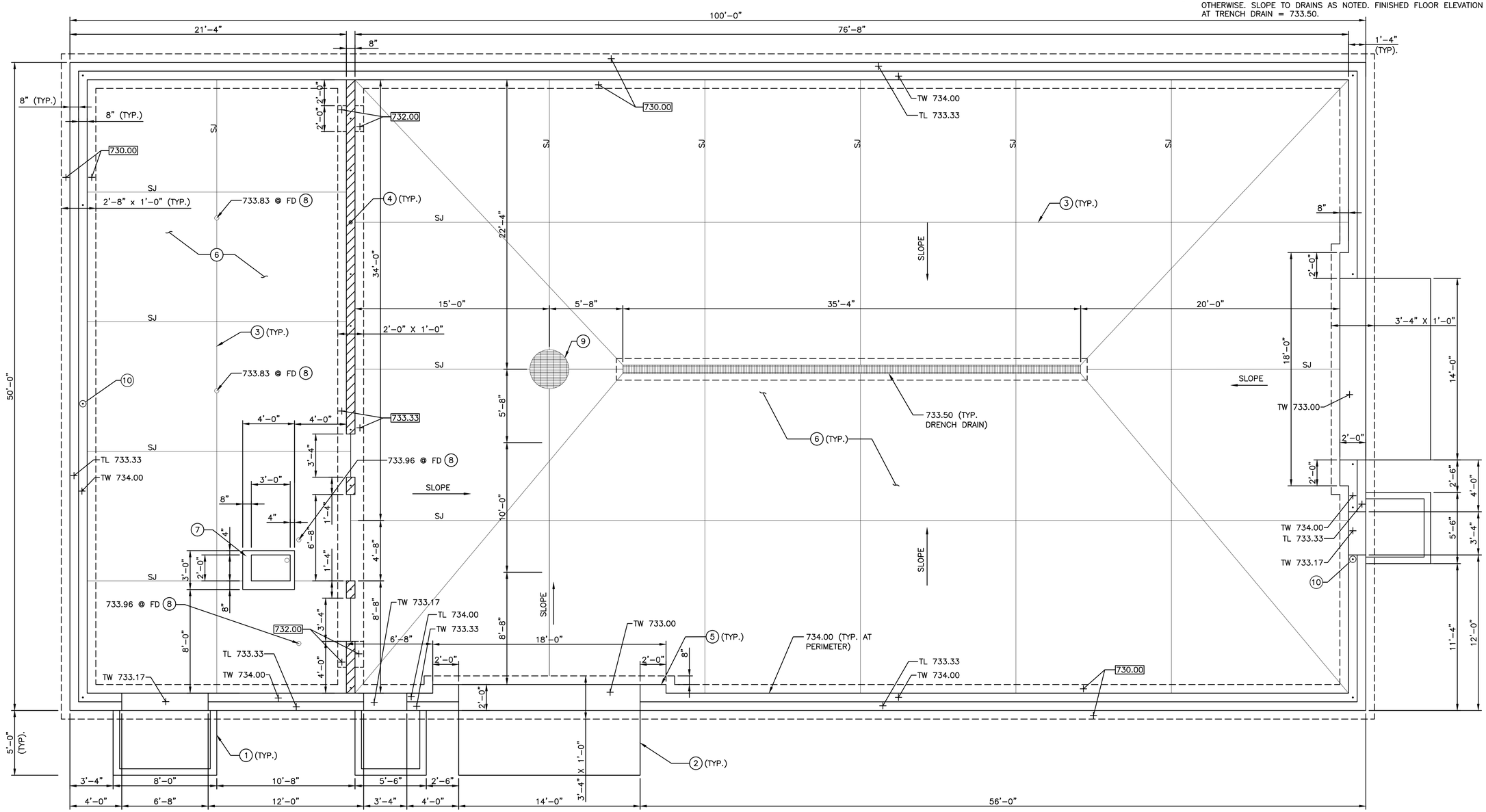
PROJECT MGR.
RYAN WOOD

STRAND ASSOCIATES®

SHEET
41
80-AS1.01

GENERAL NOTES:

1. SEE DRAWING 99–AS6.01 FOR GENERAL STRUCTURAL NOTES AND SCHEDULES.
2. FINISHED FLOOR ELEVATION = 734.00 AT WALL FACES UNLESS NOTED OTHERWISE. SLOPE TO DRAINS AS NOTED. FINISHED FLOOR ELEVATION AT TRENCH DRAIN = 733.50.



FOUNDATION PLAN

0 1' 2' 4' 8'

KEY NOTES:

1. CONCRETE STOOP (A / 99–AS5.01)
2. CONCRETE APRON (B / 99–AS5.01)
3. SAWN JOINT (SJ), JOINTS SHALL BE 15'–0" O.C. MAX. (A / 99–AS5.04)
4. #4@48" VERTICAL MASONRY REINFORCING (TYP.)
5. CONCRETE PILASTER (A / 80–AS3.04)
6. 6" SLAB–ON–GRADE
7. MOP BASIN CURB (B / 80–AS3.04)
8. SLOPE FLOOR TO DRAIN. SEE PLAN FOR DRAIN ELEVATION. TYPICAL FLOOR ELEVATION AT WALLS = 734.00
9. CATCH BASIN. SEE P DRAWINGS FOR DETAILS.

KEY NOTES CONTINUED:

1. PROVIDE 1~VERTICAL HOOKED DOWEL IN FOUNDATION WALL AT LOCATIONS CORRESPONDING TO FIRST AND LAST CMU CORE LOCATION IN SHEAR WALL LOCATIONS. SEE PLAN FOR SHEAR WALL LOCATIONS. MATCH DOWEL SIZE AND LAP LENGTH TO VERTICAL MASONRY REINFORCING OF CORRESPONDING CORE.

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

FOUNDATION PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

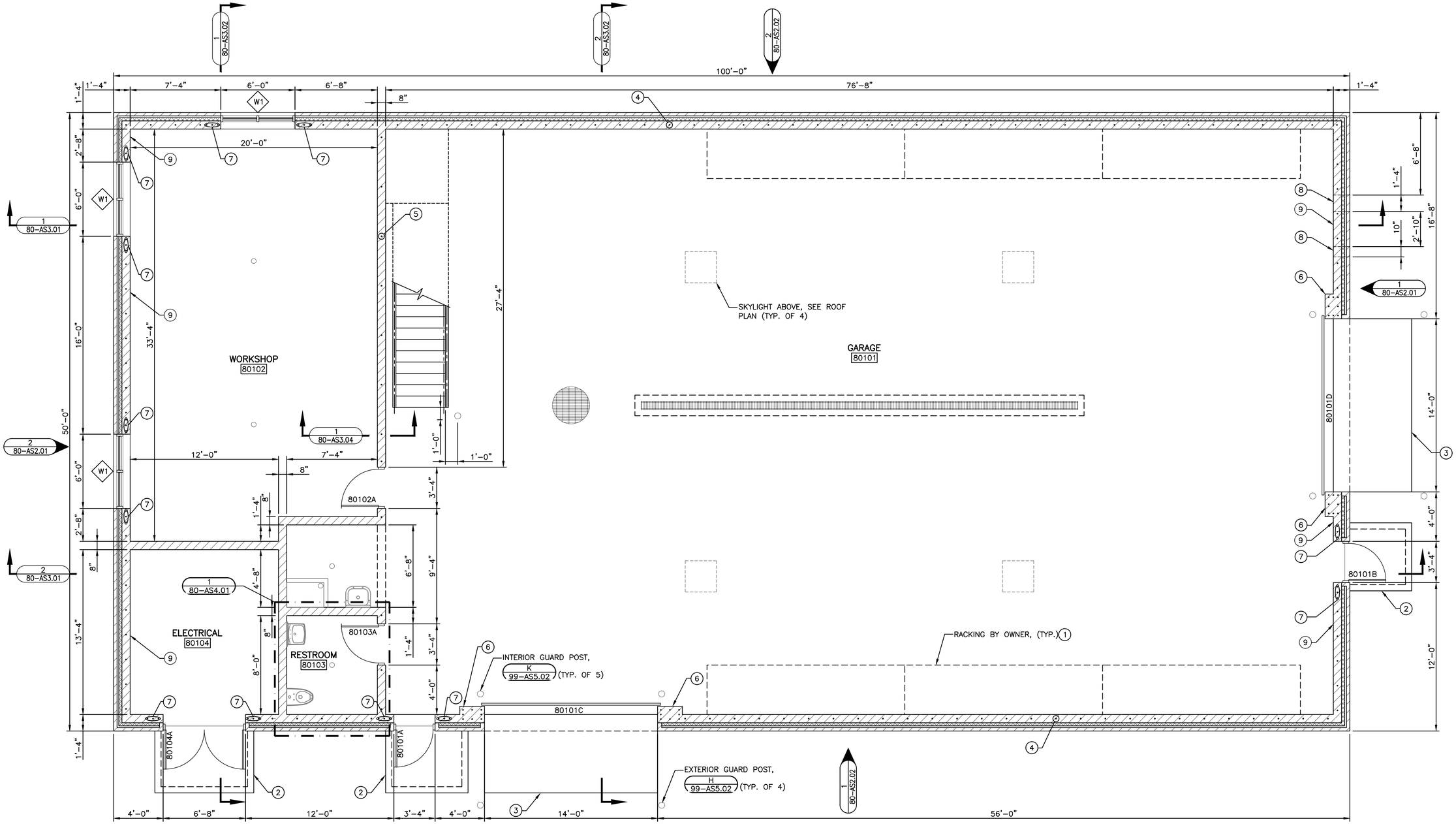
JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 42
80-AS1.02

File: S:\MAD\1100--1199\1110\037\Drawings\CAD\AutoCAD\80-AS1.02.dwg Time: Jul 18, 2025 - 11:10am



FLOOR PLAN

0 1' 2' 4' 8'

KEY NOTES:

1. CONTRACTOR TO INSTALL RACKING SALVAGED FROM STRUCTURE 90. COORDINATE LOCATION AND INSTALLATION REQUIREMENTS WITH OWNER.
2. CONCRETE STOOP (A / 99-ASM5.01)
3. CONCRETE APRON (B / 99-ASM5.01)
4. #6@24" VERTICAL MASONRY REINFORCING TYP. AT EXTERIOR MASONRY WALLS. LAP 2'-0" WITH #6@24" ADHESIVE ANCHORS IN BASE OF WALL, EMBED 6" INTO CONCRETE FOUNDATION WALL. EXTEND VERTICAL MASONRY REINFORCING 6" INTO BOND BEAM AT TOP OF WALL.

KEY NOTES (CONT.):

5. #4@48" VERTICAL MASONRY REINFORCING TYP. AT INTERIOR MASONRY BEARING WALL. LAP 2'-0" WITH #4@48" ADHESIVE ANCHORS IN BASE OF WALL, EMBED 6" INTO CONCRETE FOUNDATION WALL. EXTEND VERTICAL MASONRY REINFORCING 6" INTO BOND BEAM AT TOP OF WALL.
6. MASONRY PILASTER (A / 80-AS3.04)
7. PROVIDE 3~#6 VERTICAL REINFORCING BARS, 1 PER ADJACENT 3 BLOCK CORES, AT OPENING JAMB. LAP 2'-0" WITH #6 ADHESIVE ANCHORS AT BASE OF WALL, EMBED 6" INTO CONCRETE FOUNDATION WALL. EXTEND VERTICAL REINFORCING 6" INTO BOND BEAM AT TOP OF WALL.
8. HVAC OPENING IN WALL. SEE H DRAWINGS.
9. MASONRY SHEAR WALL. LAP VERTICAL REINFORCING IN FIRST AND LAST CORE OF WALL SEGMENT WITH FOUNDATION DOWELS.

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

FLOOR PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

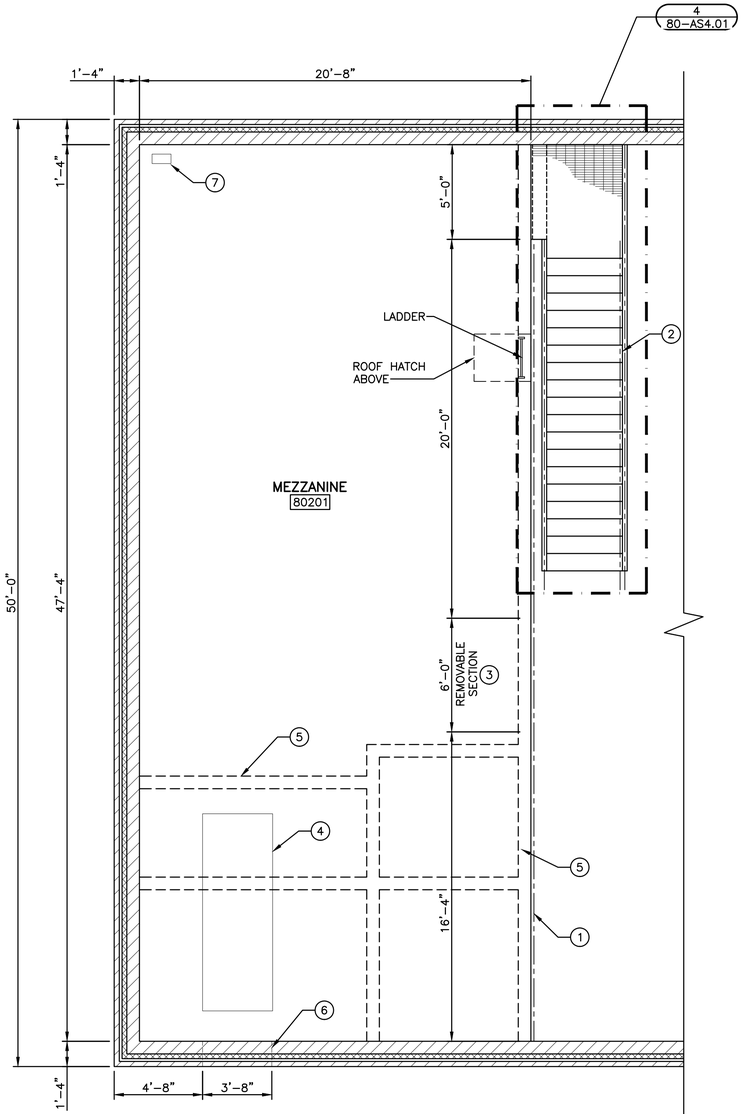
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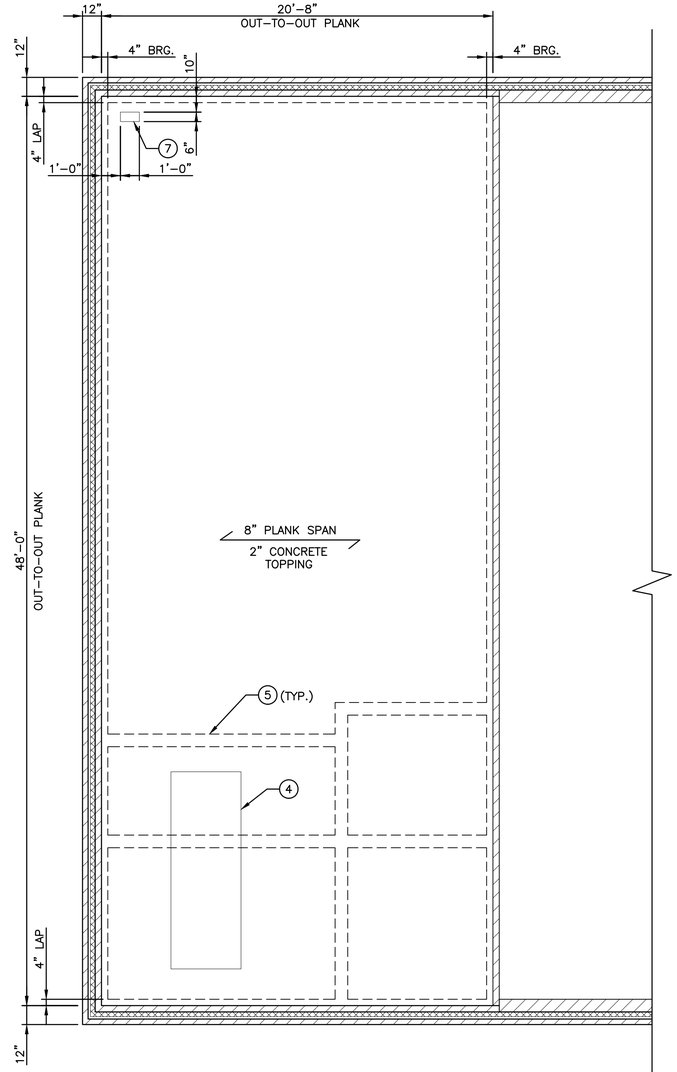
SHEET 43 80-AS1.03

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MEZZANINE PLAN

0 1' 2' 4' 8'



MEZZANINE PRECAST PLANK PLAN

0 1' 2' 4' 8'

GENERAL NOTES:

1. SEE 99-AS6.01 FOR GENERAL STRUCTURAL NOTES AND SCHEDULES.
2. TOP OF MEZZANINE ELEVATION = 744.83 UNLESS NOTED OTHERWISE.
3. SUPERIMPOSED MEZZANINE LOADS
   D=10 PSF COLLATERAL
   L=150 PSF
   MAU = 1058 LB. VERIFY W/ MANUFACTURER.
4. GROUT ALL EXPOSED ENDS OF PRECAST SOLID.
5. LOCALLY DISH PRECAST PLANK TOPPING FOR DRAINS

KEY NOTES:

1. SIDE-MOUNTED GALVANIZED STEEL RAILING, F / 99-AS5.02.
2. GALVANIZED STEEL STAIR, E / 99-AS5.02.
3. REMOVABLE STEEL GUARDRAIL, G / 99-AS5.02.
4. MAU. SEE H PLAN.
5. INTERIOR NON-BEARING CMU WALL BELOW C / 99-AS5.01
6. HVAC WALL PENETRATION. SEE H PLAN.
7. HVAC PENETRATION THROUGH PLANK. SEE H PLAN.

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MEZZANINE PLAN

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WINNEBAGO COUNTY, ILLINOIS

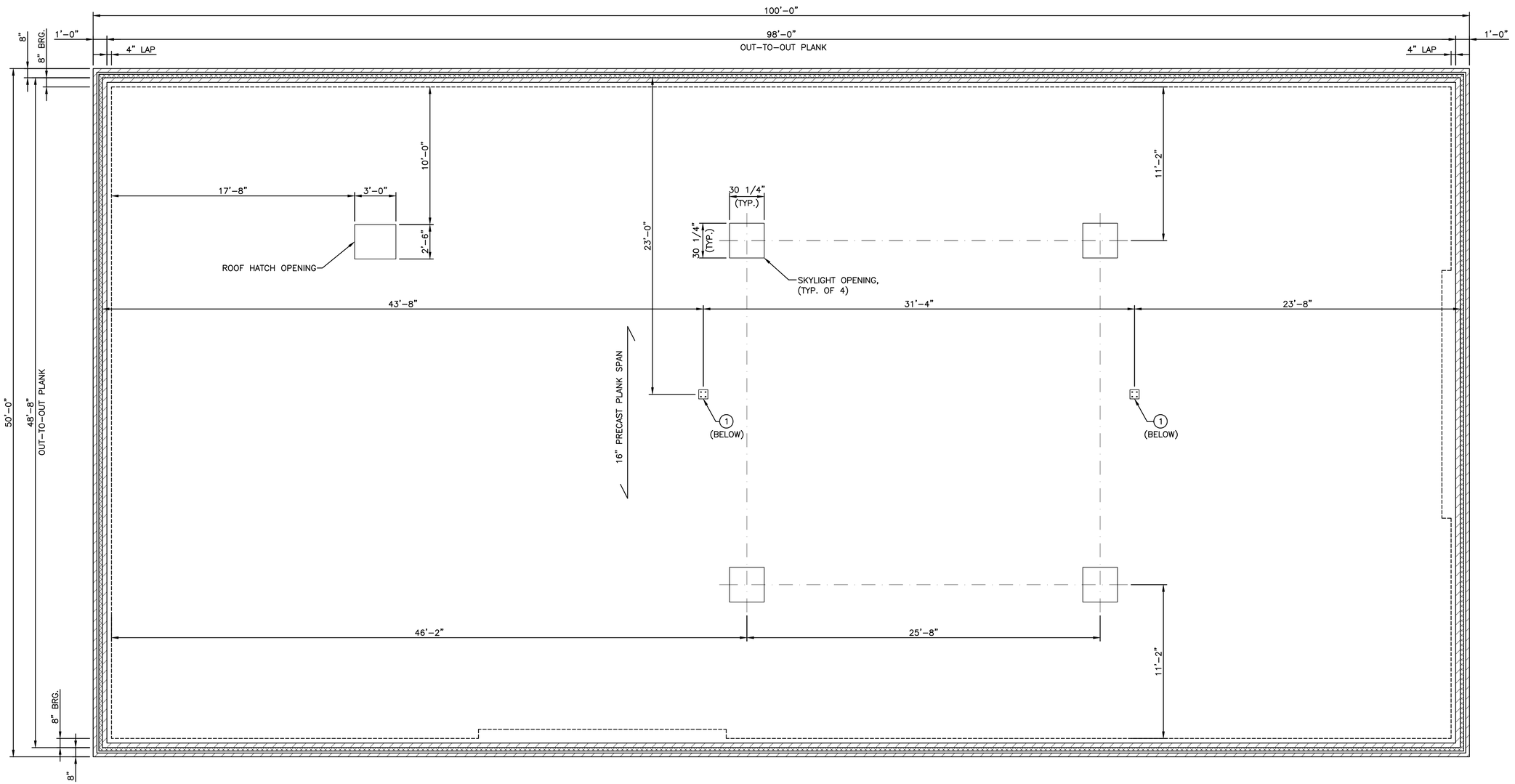
JOB NO.
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RYAN WOOD

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44
80-AS1.04

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ROOF PRECAST PLANK PLAN

0 1' 2' 4' 8'

GENERAL NOTES:

1. ROOF PLANK LOADS
   D = 10 PSF + 5 PSF (COLLATERAL)
   S = 21 PSF
   Lr = 20 PSF

KEY NOTES:

(1) FAN MOUNTING LOCATION BELOW. SEE H DRAWINGS FOR DETAILS. FAN WEIGHT = 300 LB (LIVE LOAD)

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ROOF & PRECAST PLANK PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
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WINNEBAGO COUNTY, ILLINOIS

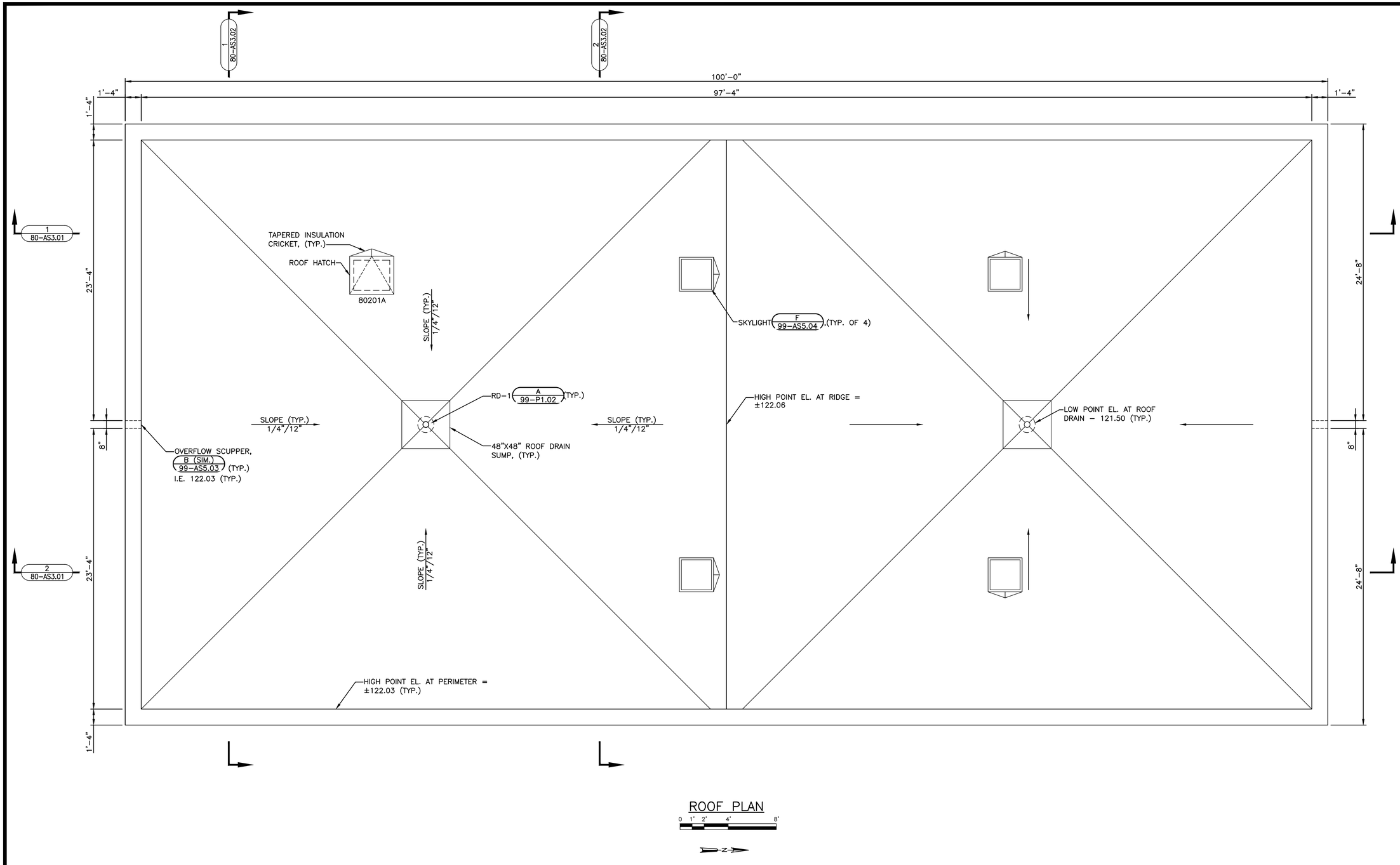
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SHEET 45 80-AS1.05

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ROOF PLAN

0 1' 2' 4' 8'

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

ROOF PLAN

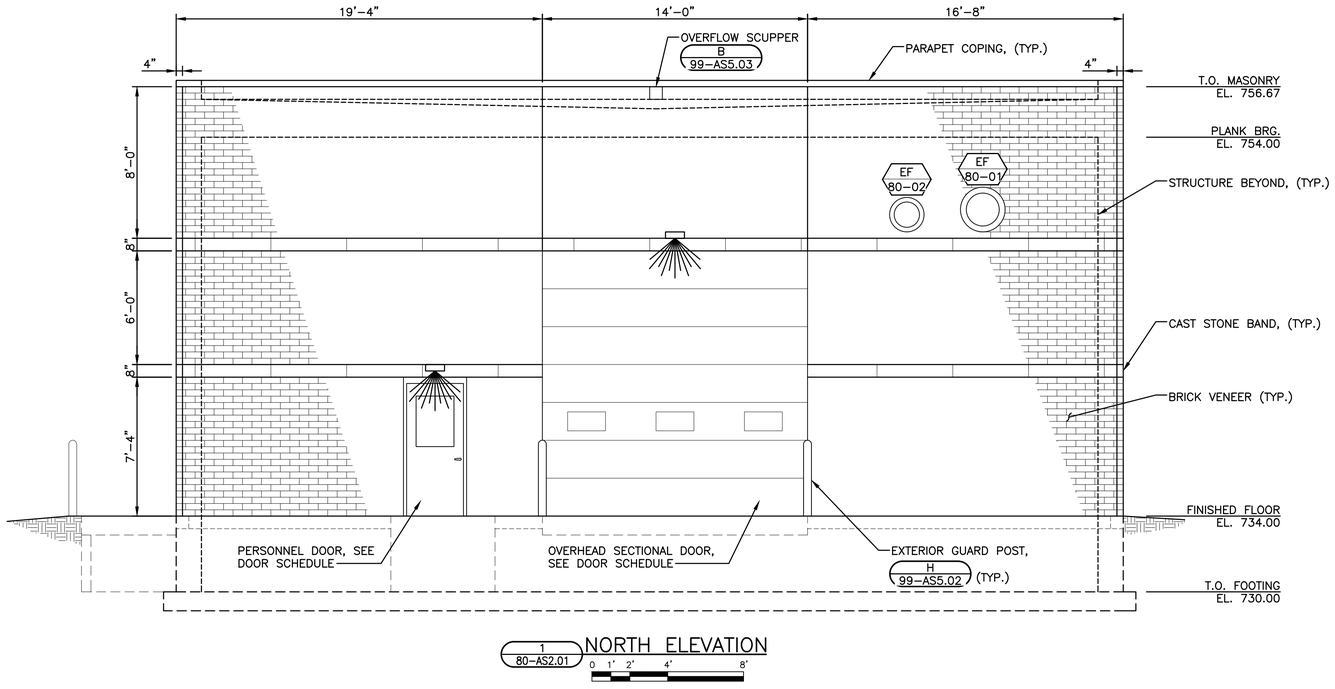
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CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

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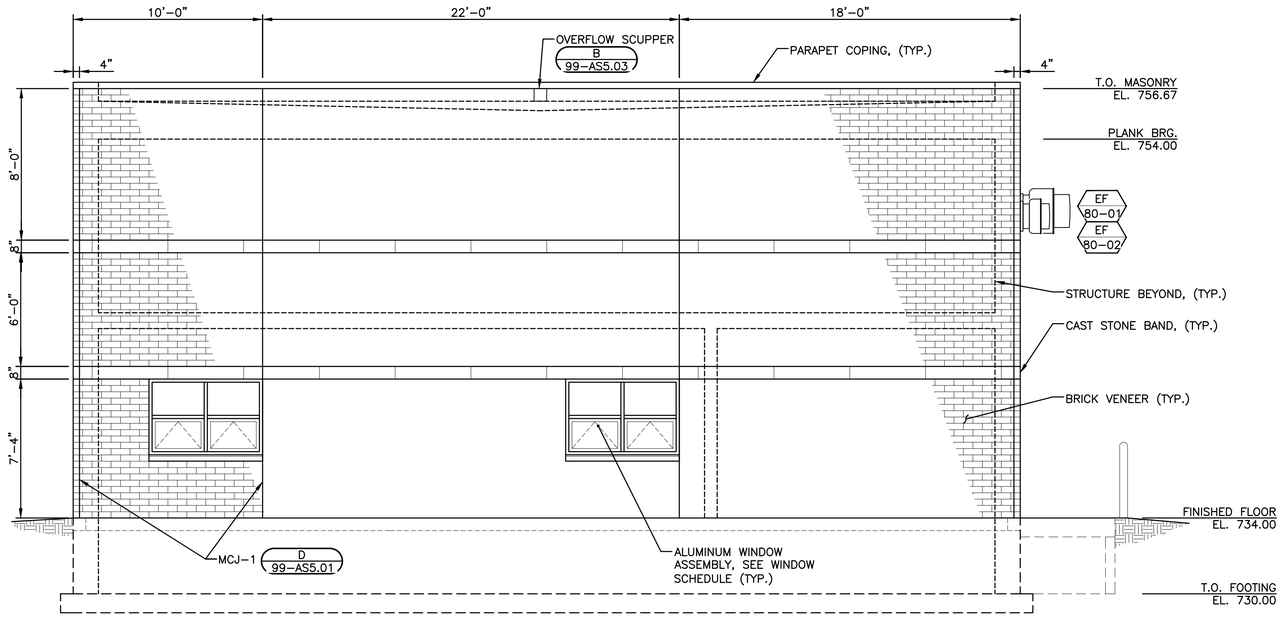
PROJECT MGR. RYAN WOOD

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SHEET 46
80-AS1.06



1
80-AS2.01
NORTH ELEVATION
0 1' 2' 4' 8'



2
80-AS2.01
SOUTH ELEVATION
0 1' 2' 4' 8'

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

ELEVATIONS - 1

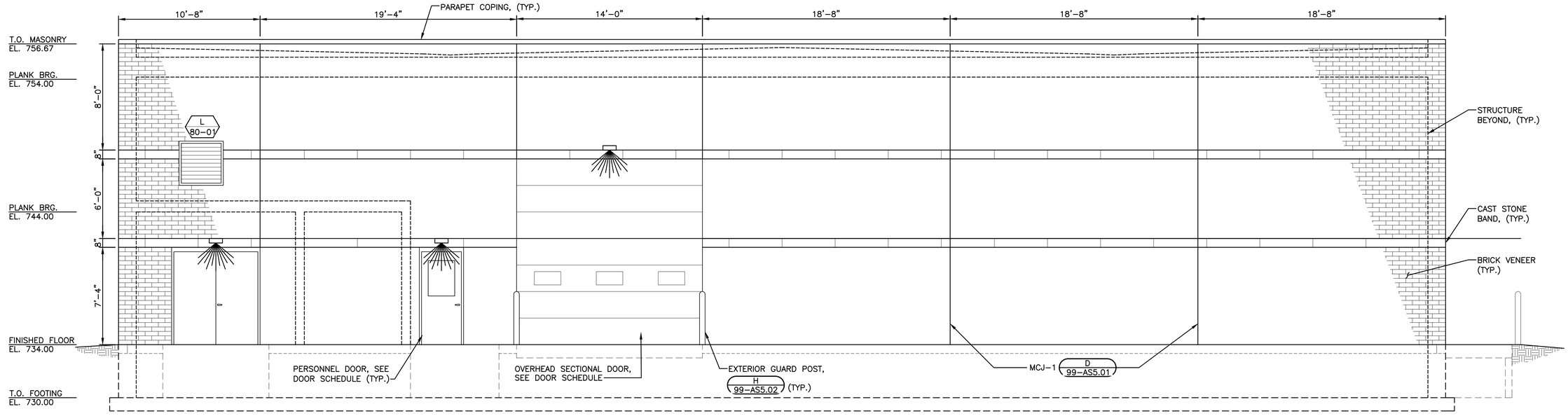
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO.
1110.037

PROJECT MGR.
RYAN WOOD

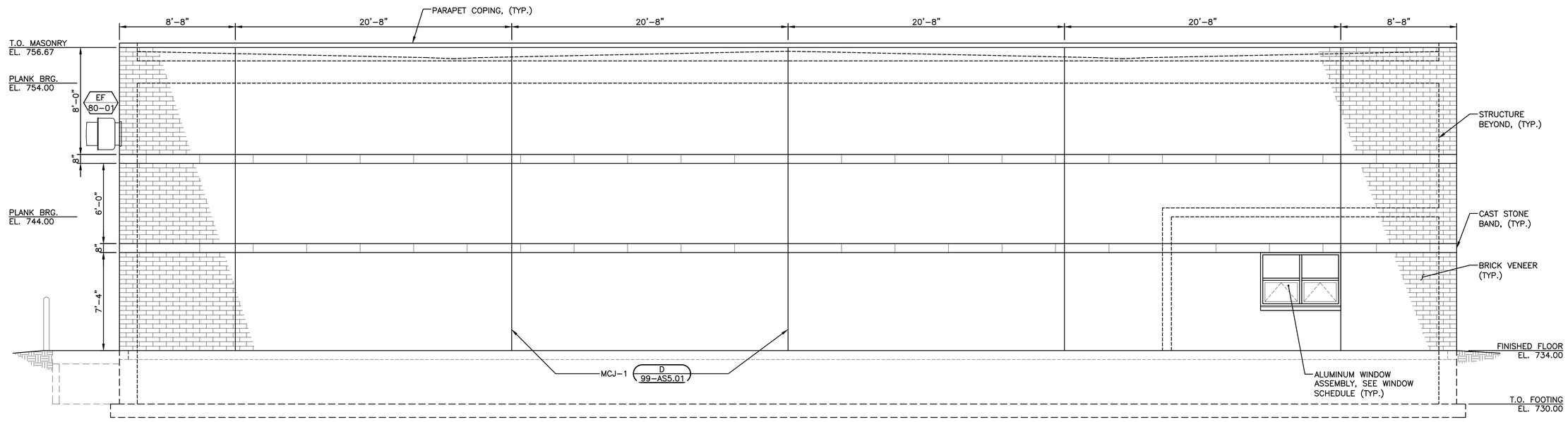
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SHEET
47
80-AS2.01



1 / 80-AS2.02 EAST ELEVATION

0 1' 2' 4' 8'



2 / 80-AS2.02 WEST ELEVATION

0 1' 2' 4' 8'

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

ELEVATIONS - 2

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

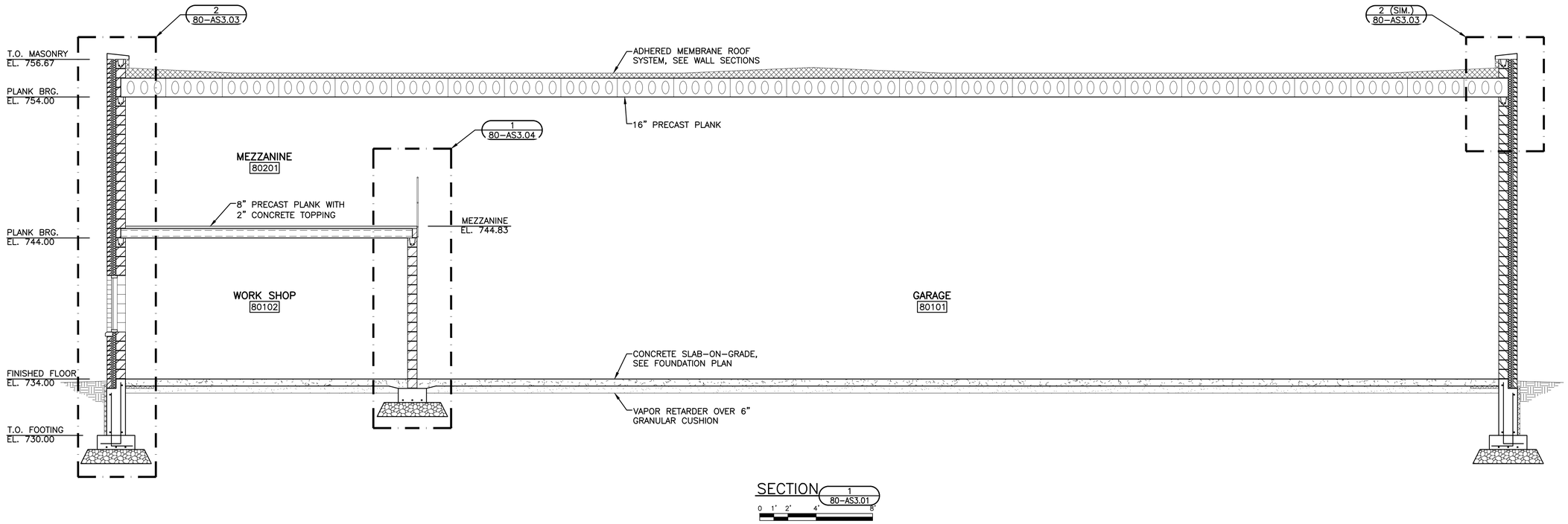
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PROJECT MGR.
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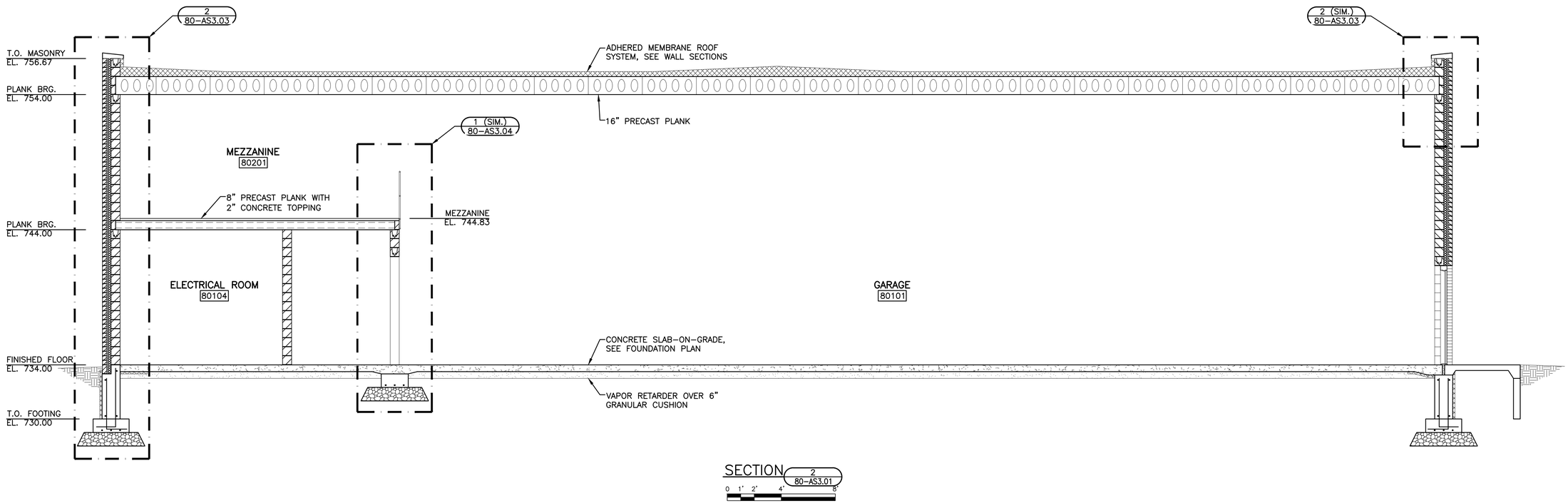
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48
80-AS2.02

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SECTION 1 / 80-AS3.01

0 1' 2' 4' 8'



SECTION 2 / 80-AS3.01

0 1' 2' 4' 8'

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

SECTIONS - 1

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

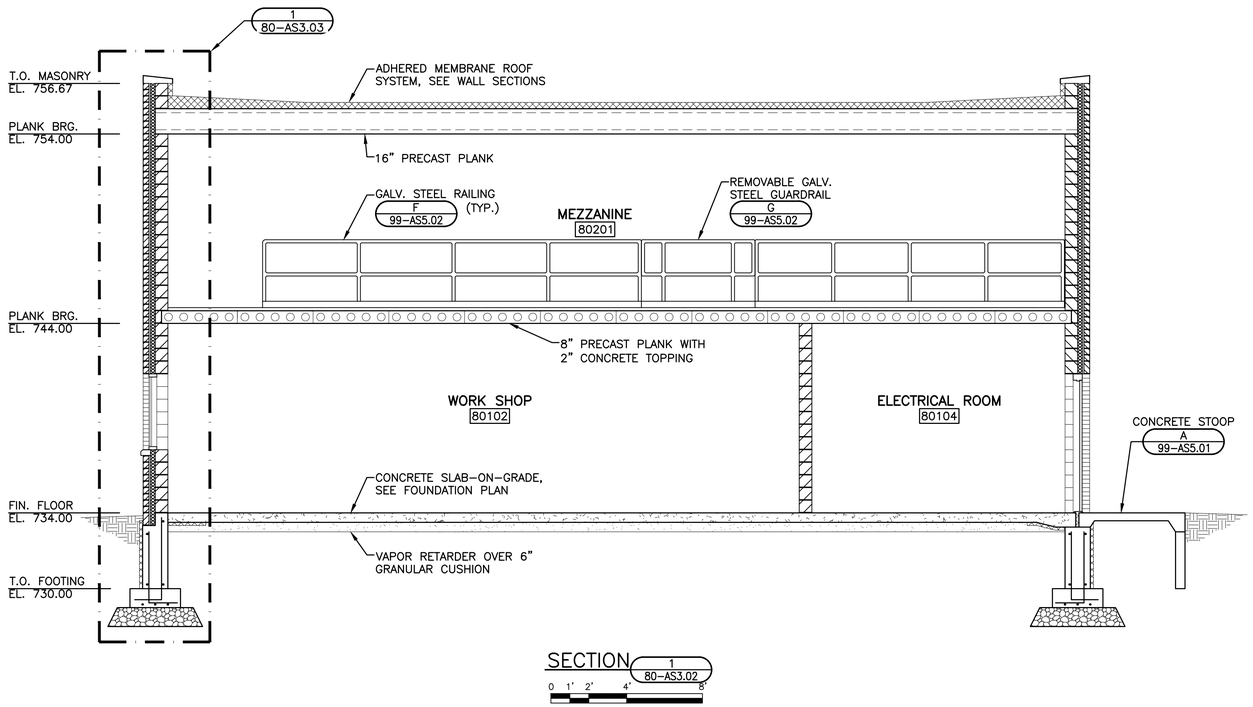
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RYAN WOOD

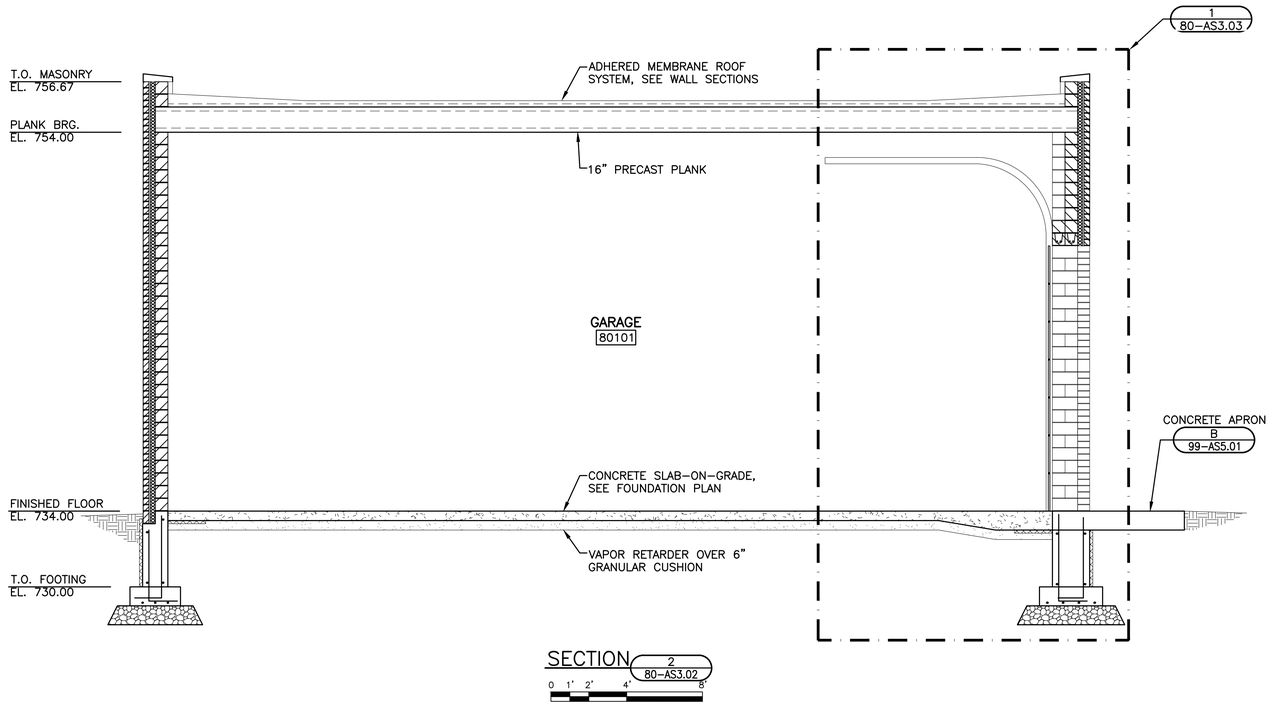
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SHEET
49
80-AS3.01

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SECTION 1 / 80-AS3.02



SECTION 2 / 80-AS3.02

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

SECTIONS - 2

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

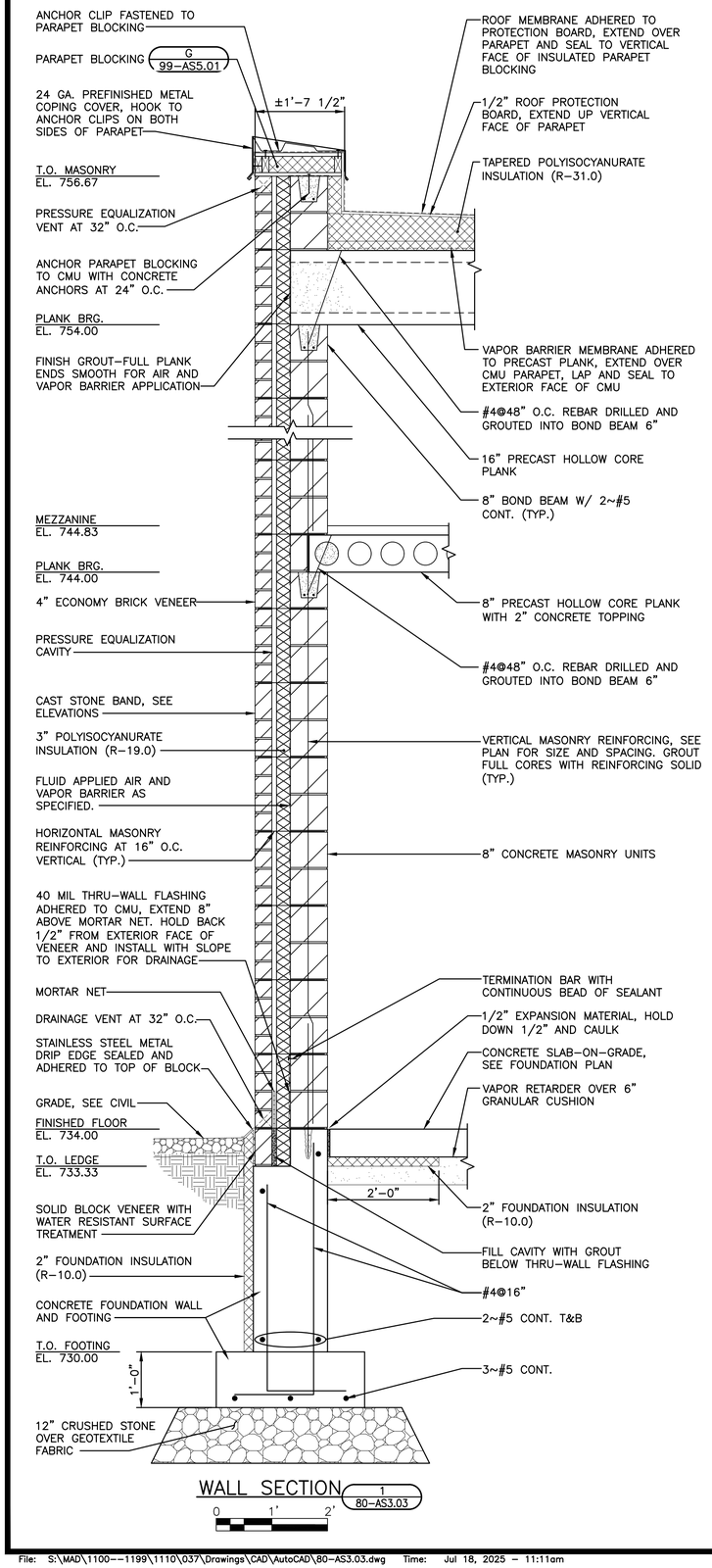
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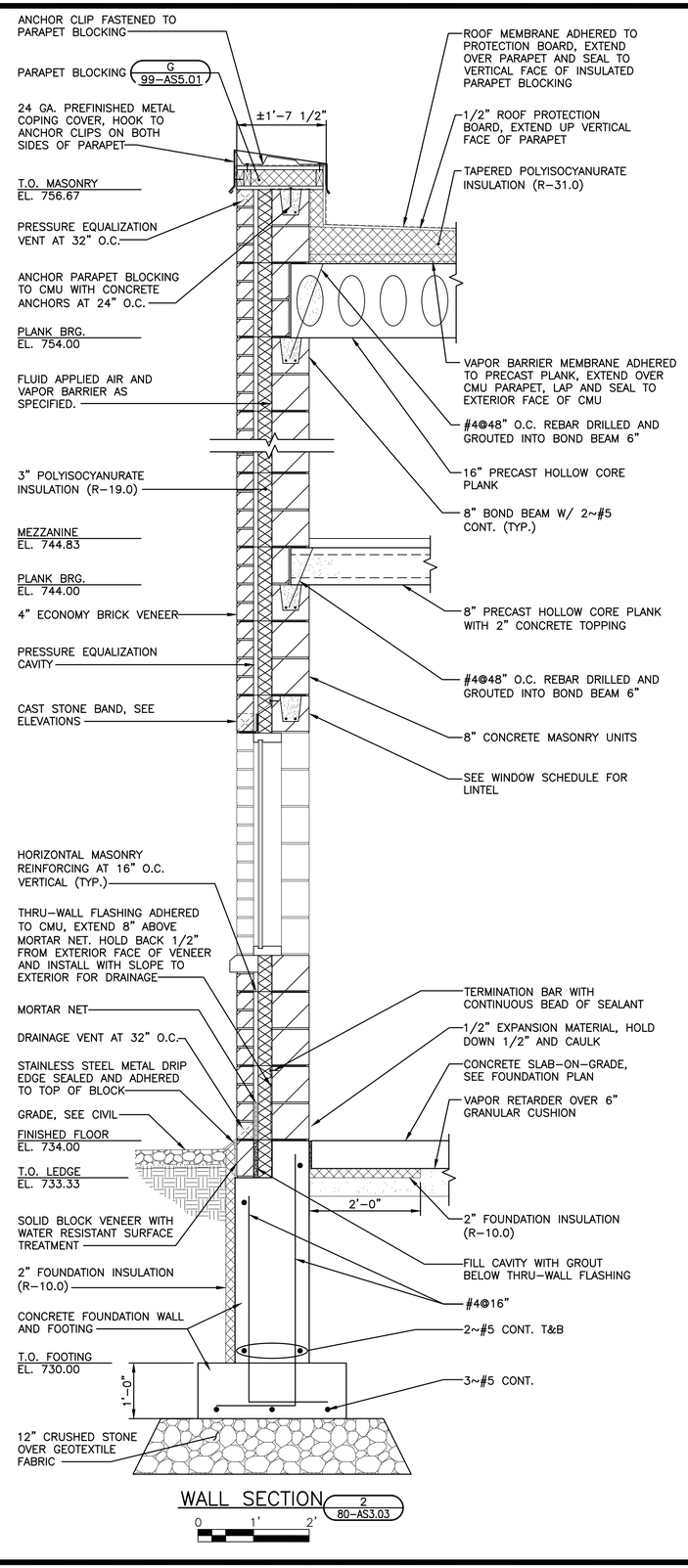
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RYAN WOOD

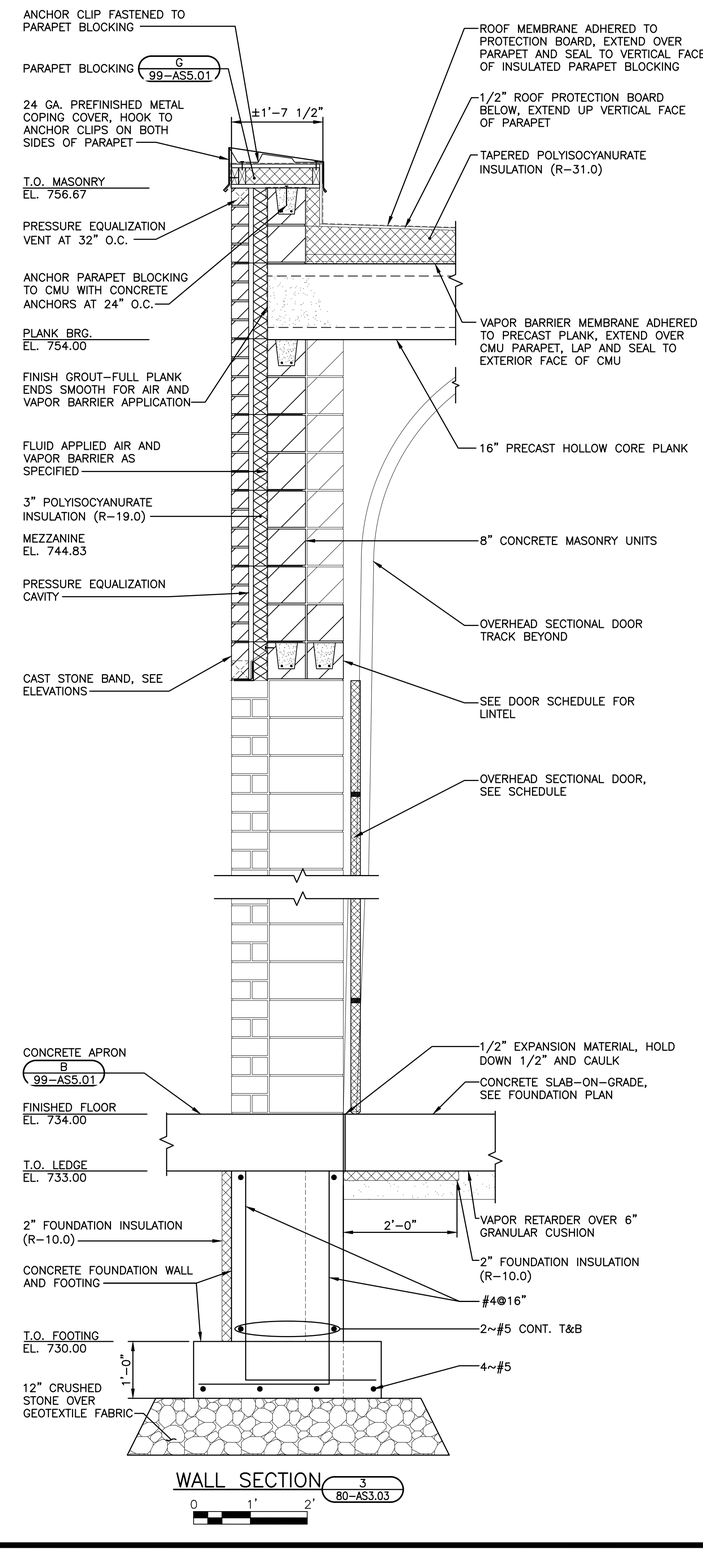
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SHEET
50
80-AS3.02

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NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

SECTIONS - 3

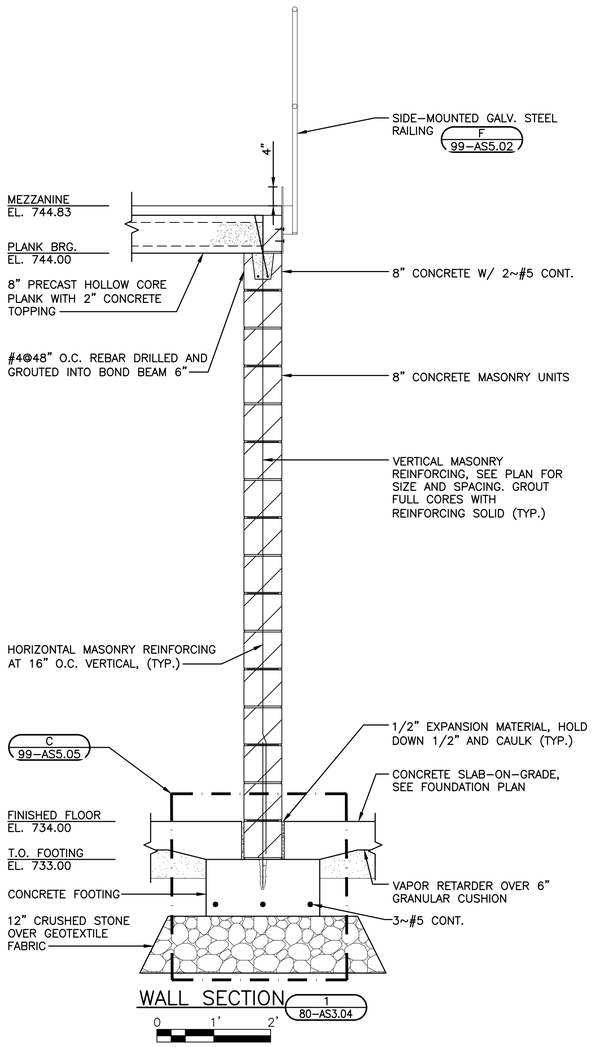
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CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

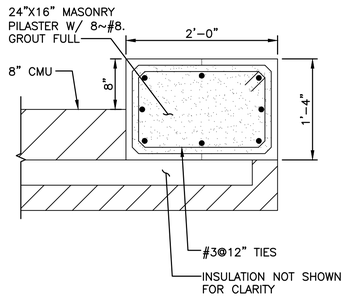
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SHEET 51
80-AS3.03



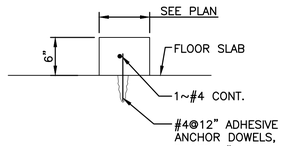
WALL SECTION 1 / 80-AS3.04



NOTE: LAP 4'-0" WITH ADHESIVE ANCHORS IN BASE OF WALL, EMBED 6" INTO CONCRETE FOUNDATION WALL. EXTEND VERTICAL MASONRY REINFORCING 6" INTO BOND BEAM AT TOP OF WALL. LAP VERTICAL BARS 4'-0".

A / 80-AS3.04 MASONRY PILASTER

0 6" 1' 2'



B / 80-AS3.04 MOP BASIN CURB

0 6" 1' 2'

NO.	REVISIONS	DATE:
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SECTIONS - 4

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

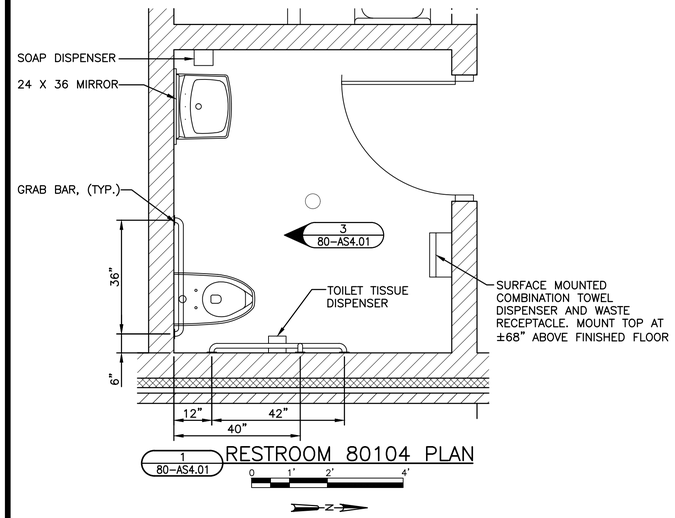
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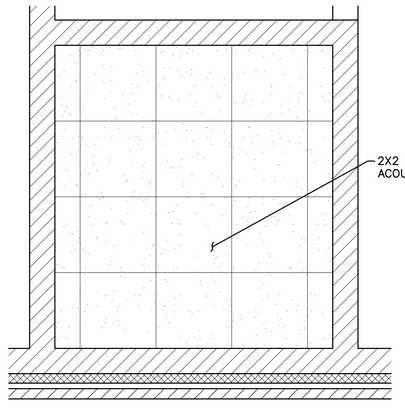
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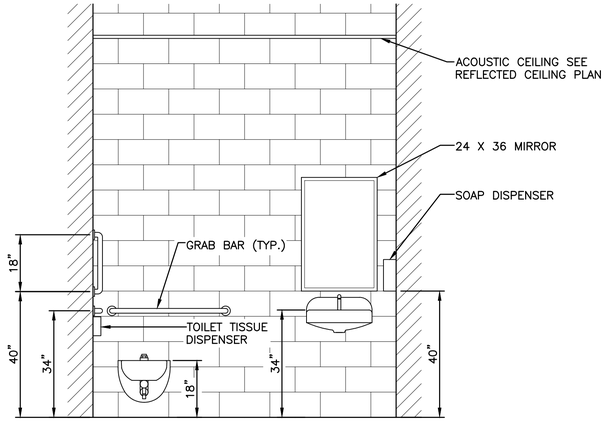
1 80-AS4.01 RESTROOM 80104 PLAN

0 1' 2' 4'



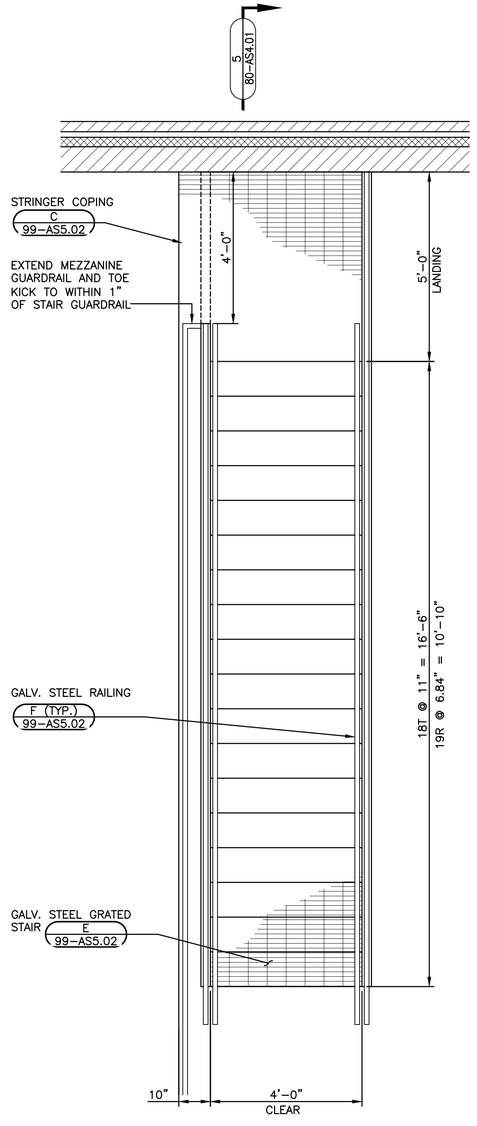
2 80-AS4.01 RESTROOM 80104 REFLECTED CEILING PLAN

0 1' 2' 4'



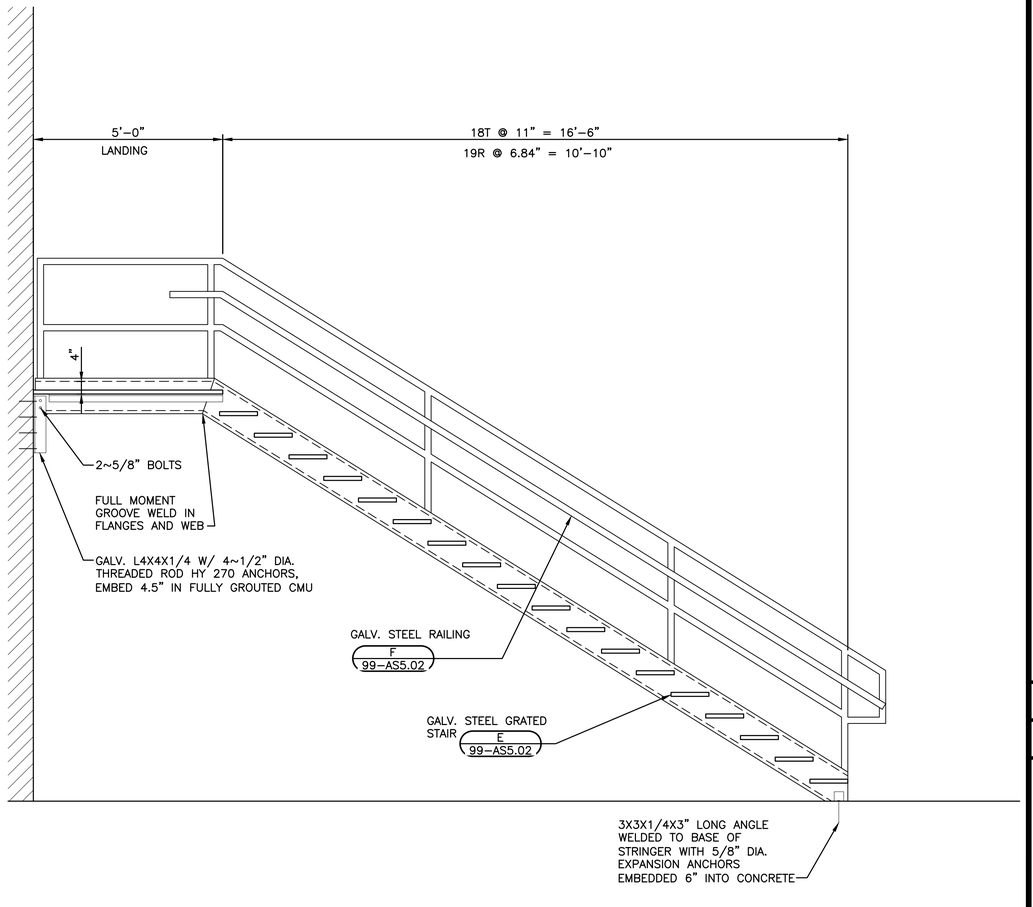
3 80-AS4.01 RESTROOM 80104 ELEVATION

0 1' 2' 4'



4 80-AS4.01 STAIR PLAN

0 1' 2' 4'



5 80-AS4.01 STAIR SECTION

0 1' 2' 4'

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ENLARGED PLANS AND ELEVATIONS

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
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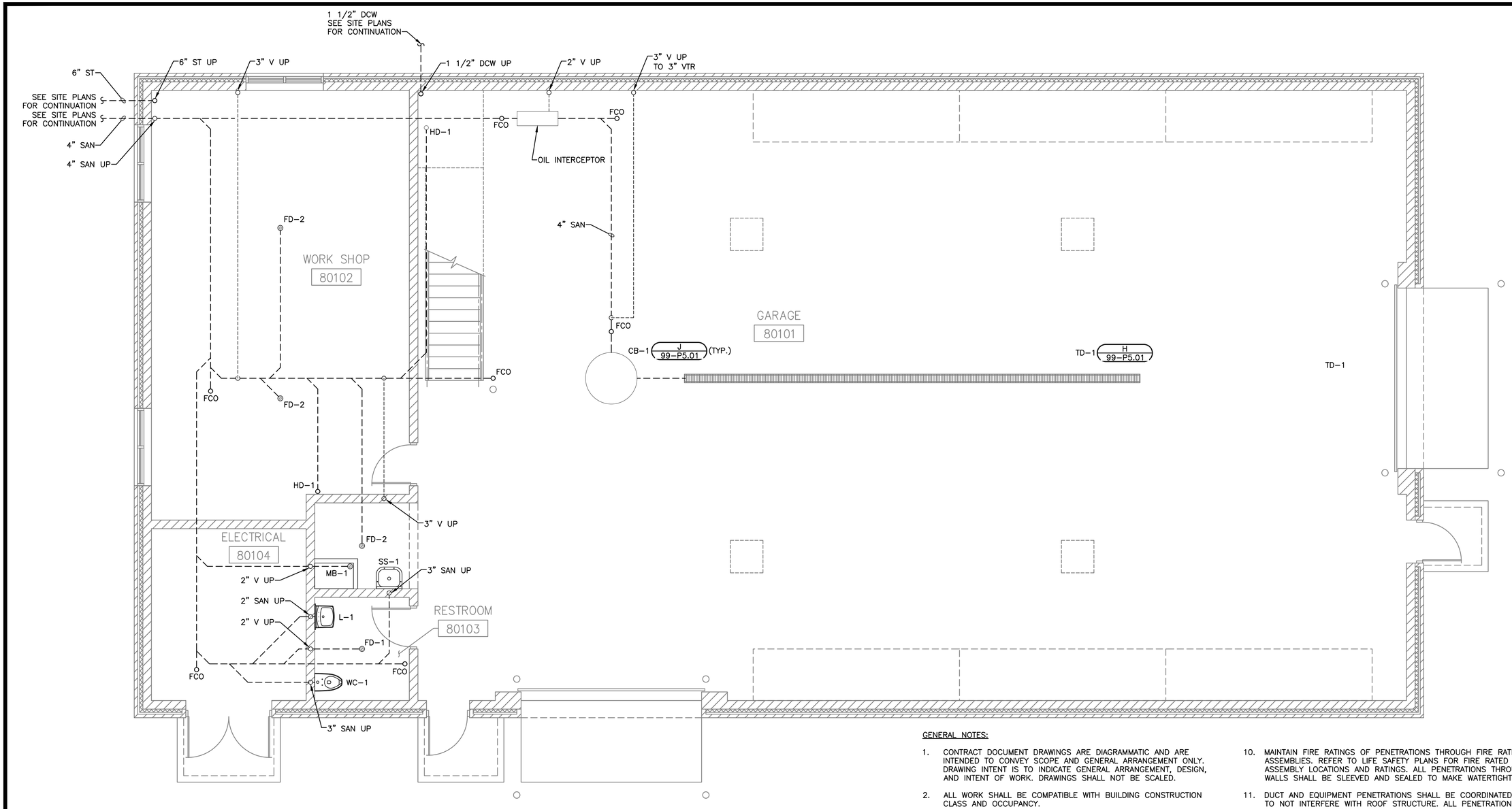
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RYAN WOOD

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53
80-AS4.01

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FLOOR PLAN

0 1' 2' 4' 8'

GENERAL NOTES:

1. CONTRACT DOCUMENT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. DRAWING INTENT IS TO INDICATE GENERAL ARRANGEMENT, DESIGN, AND INTENT OF WORK. DRAWINGS SHALL NOT BE SCALED.
2. ALL WORK SHALL BE COMPATIBLE WITH BUILDING CONSTRUCTION CLASS AND OCCUPANCY.
3. COORDINATE WITH OTHER TRADES TO ELIMINATE CONFLICTS BETWEEN PIPING, DUCTWORK, FIRE PROTECTION, ELECTRICAL WORK, ETC. DRAWINGS OF ALL OTHER TRADES SHALL BE REVIEWED. EACH CONTRACTOR SHALL COORDINATE THE INSTALLATION AND SCHEDULING OF THEIR WORK WITH OTHER TRADES TO PREVENT INTERFERENCE WITH THEIR RESPECTIVE INSTALLATIONS.
4. LOCATE ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES IN ACCESSIBLE LOCATIONS.
5. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
6. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
7. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED SHOP DRAWINGS.
8. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES AND OTHER INSTRUMENTS IN ACCESSIBLE LOCATIONS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
9. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CEILINGS, CEILING TYPES, AND CHANGES IN ELEVATION.
10. MAINTAIN FIRE RATINGS OF PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLANS FOR FIRE RATED ASSEMBLY LOCATIONS AND RATINGS. ALL PENETRATIONS THROUGH WALLS SHALL BE SLEEVED AND SEALED TO MAKE WATERTIGHT.
11. DUCT AND EQUIPMENT PENETRATIONS SHALL BE COORDINATED AS TO NOT INTERFERE WITH ROOF STRUCTURE. ALL PENETRATIONS SHALL BE FIELD COORDINATED WITH GENERAL CONTRACTOR.
12. ALL PIPE AND DUCT LOCATIONS AND ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND NEW ROUTING AND ELEVATIONS PRIOR TO FABRICATION AND INSTALLATION. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPES SIZES NOT SHOWN ON FLOOR PLANS, REFER TO DETAILS, ISOMETRICS AND SCHEDULES.
13. PLUMBING CONTRACTOR SHALL PROVIDE ACCESSIBILITY TO ALL VALVES AND CONTROL DEVICES. FURNISH ACCESS PANELS WHERE SHOWN OR REQUIRED FOR ACCESS TO ALL CONCEALED VALVES OR OTHER EQUIPMENT FURNISHED UNDER THIS CONTRACT WHERE NO OTHER MEANS IS PROVIDED.
14. CONTRACTOR SHALL PROVIDE TRAP GUARDS ON ALL FLOOR DRAINS AND HUB DRAINS.

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PLUMBING PLAN - 1

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

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RYAN WOOD

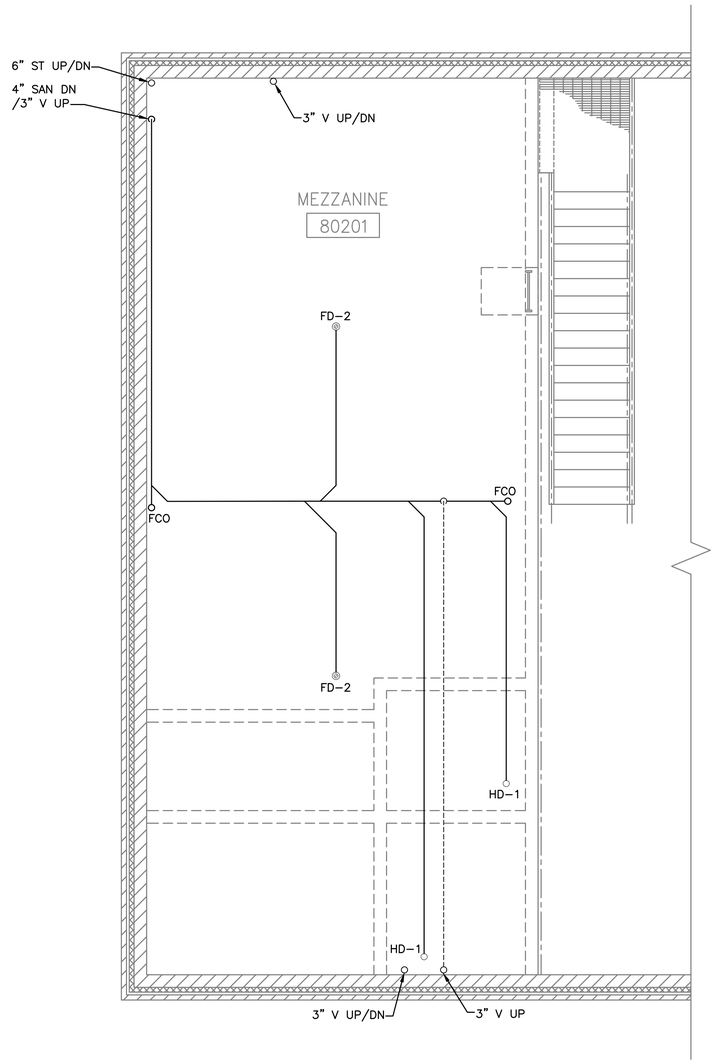
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54
80-P1.01

File: S:\MAD\1100--1199\1110\037\Drawings\CAD\AutoCAD\80-P1.01.dwg Time: Jul 18, 2025 - 11:11am

GENERAL NOTES:

1. SEE DRAWING 80–P1.01 FOR GENERAL NOTES.



MEZZANINE BELOW FLOOR PLUMBING PLAN

0 1' 2' 4' 8'

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

PLUMBING PLAN - 2

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

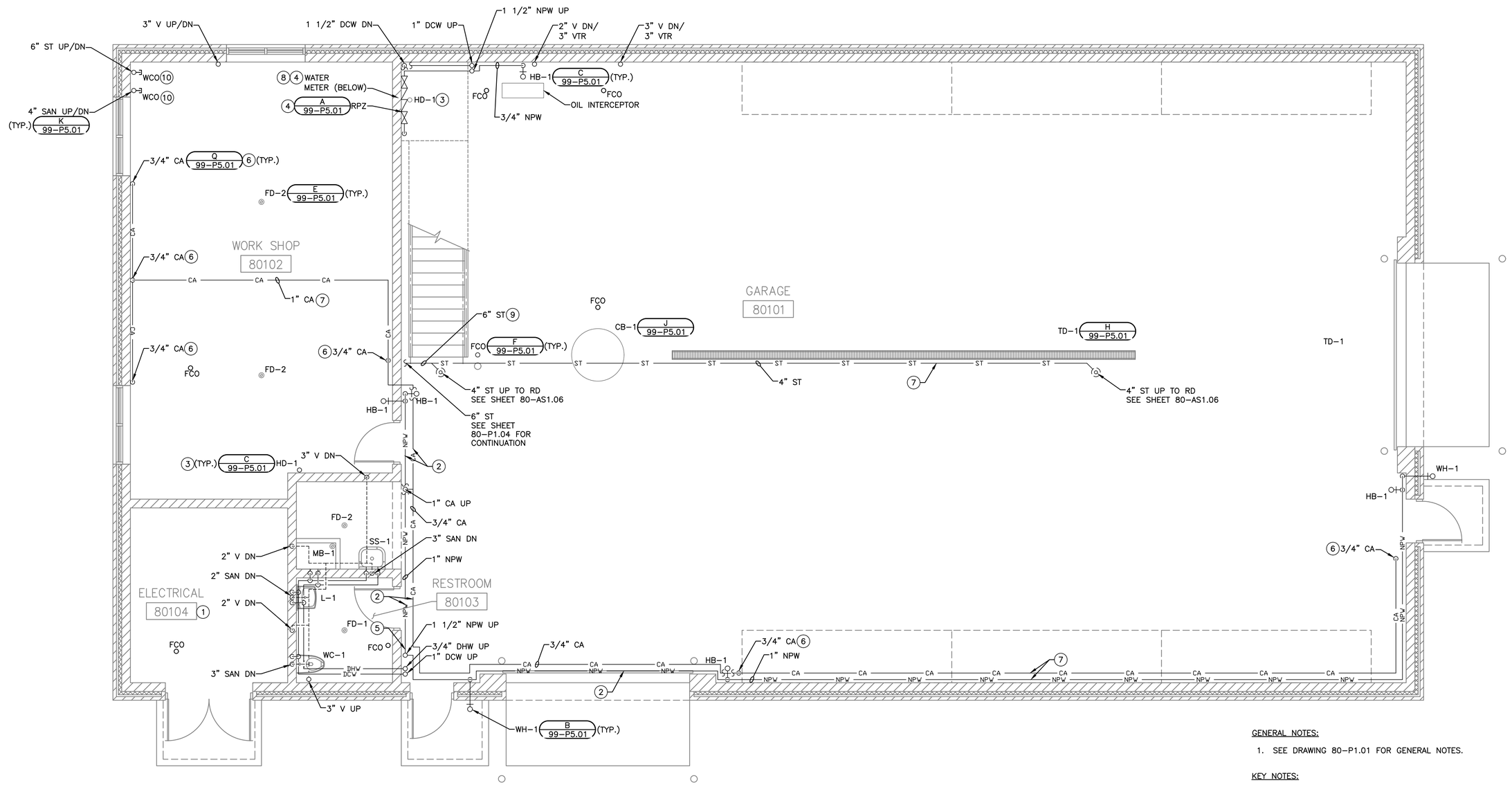
JOB NO.
1110.037

PROJECT MGR.
RYAN WOOD

STRAND ASSOCIATES®

SHEET
55
80-P1.02

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FLOOR PLAN

0 1' 2' 4' 8'

GENERAL NOTES:

1. SEE DRAWING 80-P1.01 FOR GENERAL NOTES.

KEY NOTES:

1. PIPING SHALL NOT BE ROUTED THROUGH ELECTRICAL ROOM.
2. PIPING SHALL BE ROUTED TO AVOID INTERFERENCE WITH DOORS.
3. HUB DRAIN LOCATION SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT CONDENSATE LOCATION.
4. WATER METER AND RPZ SHALL BE LOCATED UNDER STAIR PLATFORM IN ACCESSIBLE LOCATION.
5. TAKE OFF FOR NPW SHALL BE 8'-0" AFF.
6. COMPRESSED AIR DROP ROUTED TO 2'-0" AFF.
7. ROUTE PIPING AS HIGH AS POSSIBLE.
8. OWNER FURNISHED, CONTRACTOR INSTALLED.
9. UPSIZE ST PIPING FROM 4" TO 6" PRIOR TO RD-1 CONNECTION.
10. PROVIDE WALL CLEAN OUT (WCO) 2'-0" AFF.

NO.	REVISIONS	DATE:
-	ISSUED FOR BID	07/24/2025

PLUMBING PLAN - 3

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

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SHEET 56 80-P1.03

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GENERAL NOTES:

1. SEE DRAWING 80–P1.01 FOR GENERAL NOTES.

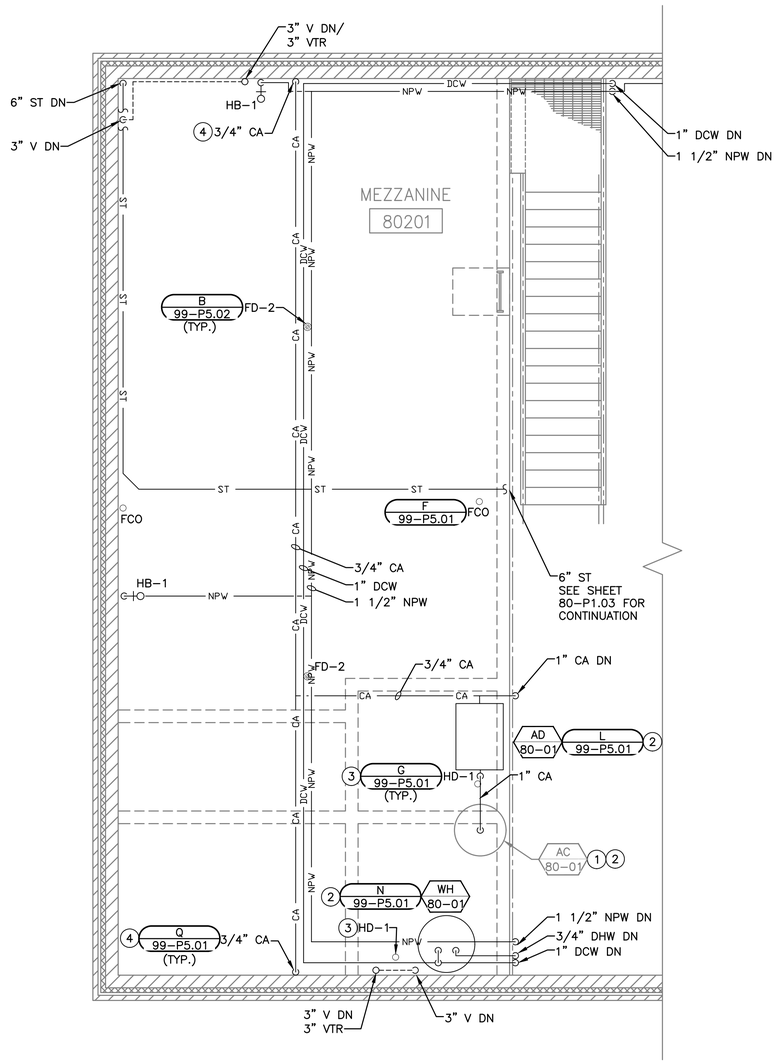
KEY NOTES:

(1) CONTRACTOR TO INSTALL EXISTING AIR COMPRESSOR REMOVED FROM ADMIN BUILDING MEZZANINE. OWNER FURNISHED, CONTRACTOR INSTALLED. ANCHOR TO FLOOR AND INCLUDE VIBRATION ISOLATION AS RECOMMENDED BY MANUFACTURER.

(2) INSTALL EQUIPMENT ON CONCRETE PAD. COORDINATE PAD INSTALLATION WITH GENERAL CONTRACTOR.

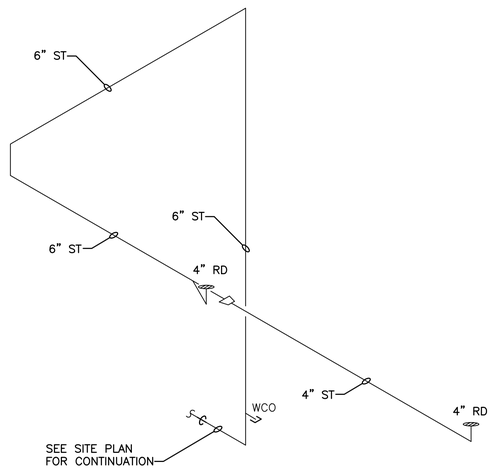
(3) HUB DRAIN LOCATION SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT CONDENSATE LOCATION.

(4) COMPRESSED AIR DROP ROUTED TO 2'–0" AFF.



MEZZANINE ABOVE FLOOR PLUMBING PLAN

0 1' 2' 4' 8'



STORM DRAIN SCHEMATIC

NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

PLUMBING PLAN - 4

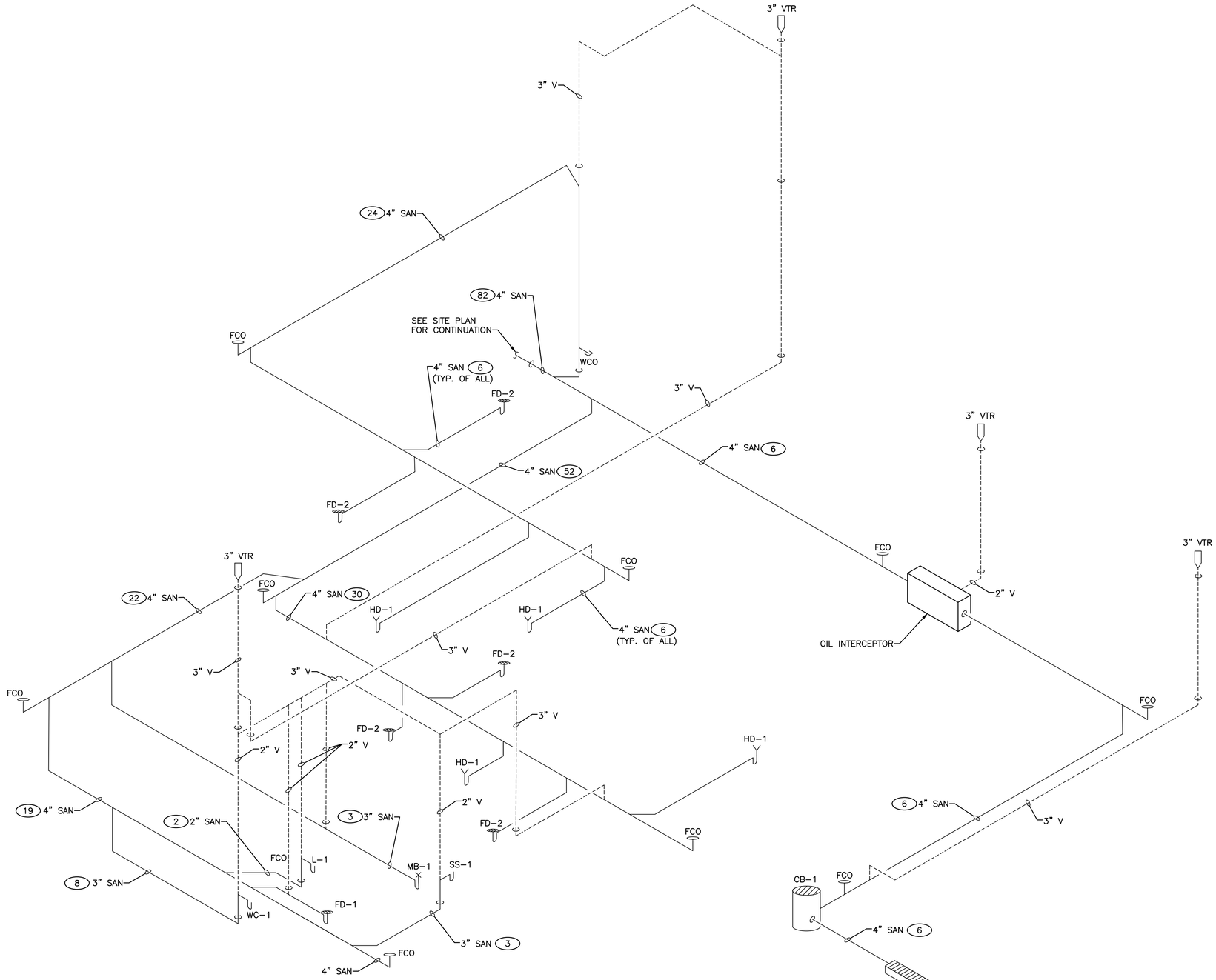
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

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SHEET 57 80-P1.04



WASTE AND VENT SCHEMATIC
NO SCALE

NO.	REVISIONS	DATE:
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WASTE AND VENT SCHEMATIC

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

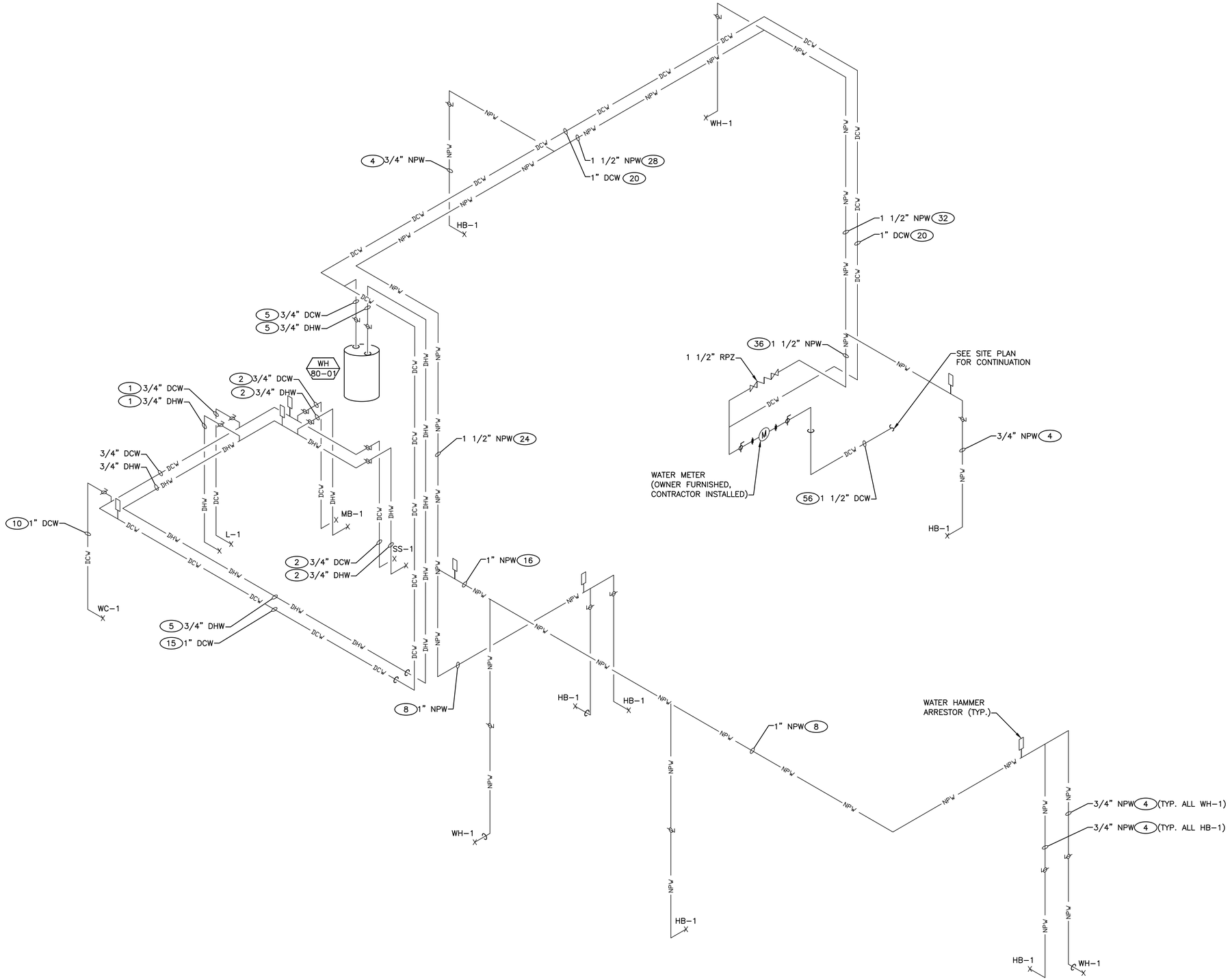
JOB NO. 1110.037

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SHEET 58
80-P7.01

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WATER SUPPLY SCHEMATIC
NO SCALE

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WATER SUPPLY SCHEMATIC

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

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SHEET 59
80-P7.02

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DUCTWORK AND PIPING OFFSETS REQUIRED FOR COMPLETE SYSTEM INSTALLATION.
2. COORDINATE AND PROVIDE ALL DUCTWORK TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS. FIELD VERIFY AND COORDINATE ALL DUCTWORK AND PIPING DIMENSIONS PRIOR TO FABRICATION.
3. DUCT AND EQUIPMENT PENETRATIONS SHALL BE COORDINATED AS TO NOT INTERFERE WITH ROOF STRUCTURE. ALL PENETRATIONS SHALL BE FIELD COORDINATED WITH GENERAL CONTRACTOR.
4. ROUTE DUCTWORK TIGHT TO STRUCTURE UNLESS OTHERWISE NOTED. SUPPLY DUCTWORK SHALL BE ROUTED BELOW RETURN AND EXHAUST DUCTWORK, UNLESS OTHERWISE NOTED.
5. THERMOSTATS ON EXTERIOR WALLS SHALL HAVE INSULATED BASES.
6. EXISTING INFORMATION SHOWN ON DRAWINGS WAS TAKEN FROM EXISTING PLANS AND IS APPROXIMATE. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY CONTRACTOR.
7. COORDINATE DIFFUSER LAYOUT WITH REFLECTED CEILING PLAN AND FIRE PROTECTION SPRINKLER LAYOUT. ADJUST AS REQUIRED.
8. INLET DUCT CONNECTIONS TO VAV BOX SHALL BE SAME AS INLET SIZE LISTED ON EQUIPMENT SCHEDULE, UNLESS OTHERWISE NOTED.

GENERAL NOTES CONTINUED:

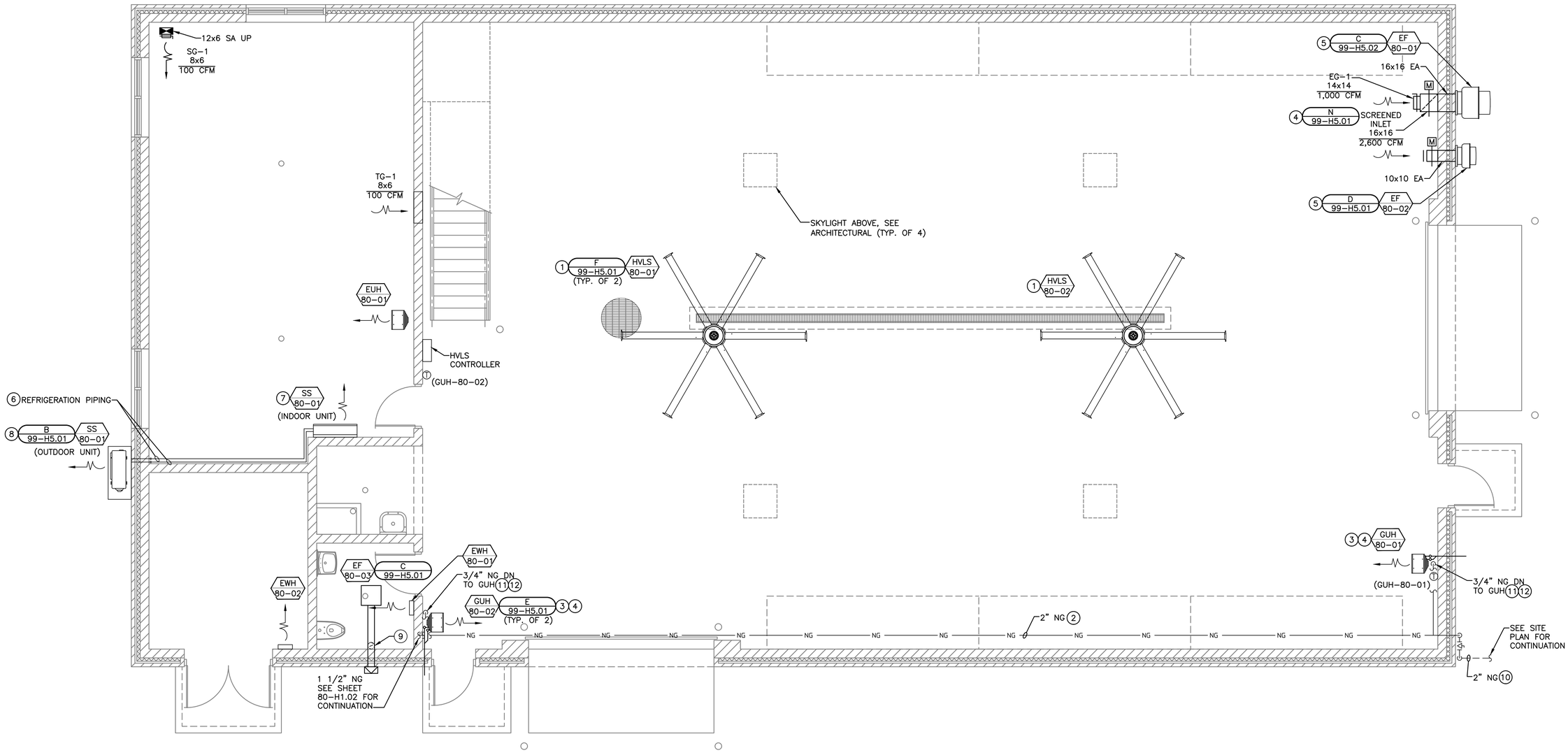
9. DUCTWORK 12" AND SMALLER IS SHOWN SINGLE LINE FOR DRAWING CLARITY.
10. FLEXIBLE DUCT CONNECTIONS TO CEILING DIFFUSERS DELIVERING 160 CFM OR LESS SHALL BE 6" DIAMETER, UNLESS OTHERWISE NOTED. FLEXIBLE DUCT CONNECTIONS TO CEILING DIFFUSERS DELIVERING BETWEEN 160 CFM AND 275 CFM SHALL BE 8" DIAMETER, UNLESS OTHERWISE NOTED. FLEXIBLE DUCT CONNECTIONS TO CEILING DIFFUSERS DELIVERING 275 CFM OR GREATER SHALL BE 10" DIAMETER, UNLESS OTHERWISE NOTED.
11. NECKS ON RETURN GRILLES RETURNING 300 CFM OR LESS SHALL BE 8" DIAMETER, UNLESS OTHERWISE NOTED. NECKS ON RETURN GRILLES RETURNING BETWEEN 300 CFM AND 500 CFM SHALL BE 12" DIAMETER, UNLESS OTHERWISE NOTED. NECKS ON RETURN GRILLES RETURNING 500 CFM OR GREATER SHALL BE 14" DIAMETER, UNLESS OTHERWISE NOTED.
12. ALL LOW VOLTAGE (<100 VOLTS) WIRING AND CONDUIT ASSOCIATED WITH HVAC EQUIPMENT SHALL BE PROVIDED BY DIVISION 23. ALL LINE VOLTAGE ELECTRICAL CONTROLS AND WIRING SHALL BE PROVIDED BY DIVISION 26. WHERE CONTROLS ARE TO BE FURNISHED WITH EQUIPMENT, ELECTRICAL CONTROLS AND WIRING SHALL BE IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS.
13. MAINTAIN FIRE RATINGS OF PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLANS FOR FIRE RATED ASSEMBLY LOCATIONS AND RATINGS.

KEY NOTES:

1. HVLS FAN SHALL BE MOUNTED SO THAT THERE IS A 2'–0" CLEARANCE HORIZONTALLY FROM THE AIRFOILS. THERE SHALL ALSO BE 5'–0" OF CLEARANCE FROM THE CEILING TO TOP OF AIRFOILS. INSTALLED ACCORDING TO MANUFACTURER SPECIFICATIONS. CONTRACTOR TO VERIFY INSTALLATION OF SAFETY CABLE AND SHACKLE.
2. ROUTE NG PIPING AS HIGH AS POSSIBLE.
3. CONTRACTOR SHALL PROVIDE MANUFACTURER CONCENTRIC INTAKE AND EXHAUST KIT. ROUTE GAS UNIT HEATER CONCENTRIC INTAKE AND EXHAUST 18'–0" AFF AND TERMINATE THROUGH EXTERIOR WALL.
4. ROUTE DUCTWORK FROM EXHAUST FAN AND ELBOW DOWN. INSTALL MOTORIZED DAMPER BELOW ELBOW IN THE VERTICAL. PROVIDE EG–2 10'–0" AFF IN VERTICAL FACE OF DUCT. PROVIDE BALANCING DAMPER IN THE VERTICAL PRIOR TO SCREENED INLET.
5. BOTTOM OF EF SHALL BE MOUNTED 15'–0" AFF.
6. REFRIGERANT PIPING SUPPLY AND RETURN SHALL BE ROUTED FROM INDOOR UNIT TO SOUTH WALL. PIPING SHALL BE ROUTED DOWN ALONG INTERIOR WALL AND ROUTED THROUGH WALL TO CONNECT TO OUTDOOR UNIT.

KEY NOTES:

7. ROUTE SPLIT SYSTEM CONDENSATE FROM UNIT TO HUB DRAIN UNDERNEATH UNIT.
8. SPLIT SYSTEM OUTDOOR UNIT SHALL BE MOUNTED 3'–0" ABOVE GRADE.
9. ROUTE 6"Ø EA DUCTWORK FROM EXHAUST FAN TO WALL. DUCTWORK SHALL BE ROUTED UP ALONG WALL 3'–0" VERTICALLY ABOVE EXTERIOR DOOR. ROUTE DUCTWORK THROUGH WALL AND TERMINATE WITH GREENHECK WC–6.
10. ROUTE 2" NG FROM SITE TO ABOVE GRADE. INSTALL ABOVE GRADE SHUTOFF PLUG VALVE IN THE HORIZONTAL. PENETRATE THROUGH WALL THEN ROUTE NG UP ALONG EXTERIOR WALL AS HIGH AS POSSIBLE.
11. PROVIDE SEDIMENT TRAP, SHUT OFF VALVE, AND REGULATOR PRIOR TO EQUIPMENT CONNECTION PER DETAIL A / 99–H5.02.
12. REGULATE GAS TO THE EQUIPMENT MANUFACTURER'S RECOMMENDED OPERATION PRESSURE.



FLOOR PLAN

0 1' 2' 4' 8'

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

HVAC PLAN - 1

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 60 80-H1.01

GENERAL NOTES:

1. SEE DRAWING 80–H1.01 FOR HVAC GENERAL NOTES.

KEY NOTES:

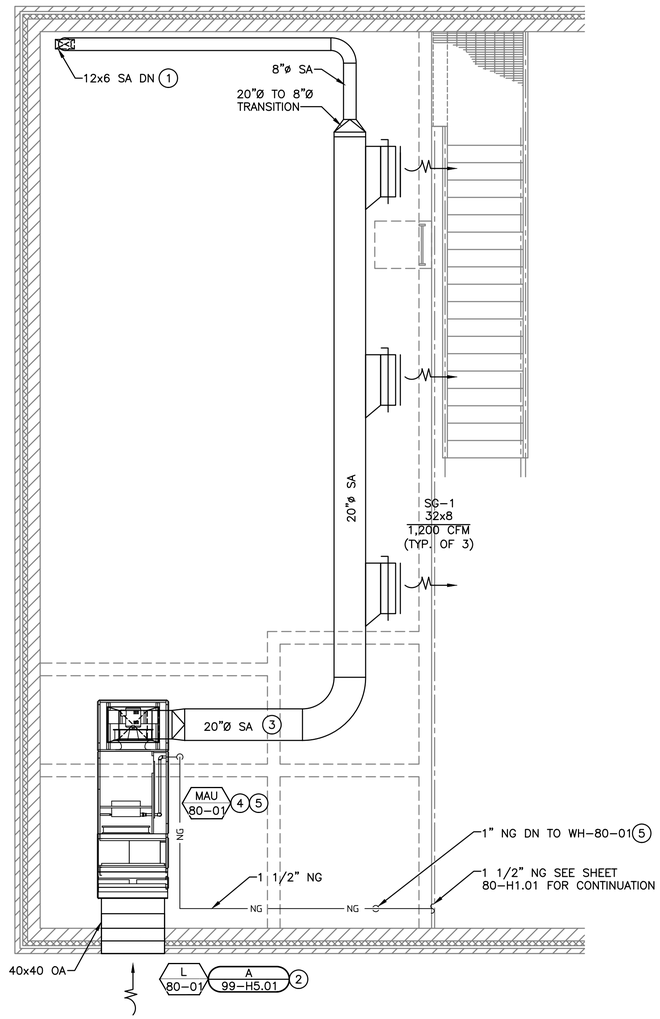
(1) PROVIDE TRANSITION FROM 8" ROUND DUCTWORK TO 12"X6" DUCTWORK 2'–0" AFF. PROVIDE FLOOR PENETRATIONS PER DETAIL G / 99–H5.01.

(2) LOUVER SHALL BE MOUNTED TO BE INLINE WITH MAU INLET CONNECTION. INCLUDING CONCRETE PAD. PROVIDE TRANSITION AS REQUIRED.

(3) DUCTWORK SHALL BE ROUTED 9'–0" AFF.

(4) MAU SHALL BE MOUNTED ON INTERIOR CONCRETE EQUIPMENT PAD PER DETAIL B / 99–H5.02.

(5) PROVIDE SEDIMENT TRAP, SHUT OFF VALVE, AND REGULATOR PRIOR TO EQUIPMENT CONNECTION PER DETAIL A / 99–H5.02. REGULATE GAS TO THE EQUIPMENT MANUFACTURER'S RECOMMENDED OPERATION PRESSURE.



MEZZANINE PLAN

0 1' 2' 4' 8'

NO.	REVISIONS	DATE:
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HVAC PLAN - 2

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO.
1110.037

PROJECT MGR.
RYAN WOOD

STRAND ASSOCIATES®

SHEET
61
80-H1.02

GENERAL NOTES:

1. THERMOSTATS ON EXTERIOR WALLS SHALL HAVE INSULATED BASES.
2. EXTERIOR FIXTURES SHALL BE CONTROLLED THROUGH AN EXTERIOR LIGHTING CONTROL PANEL FURNISHED BY THE SECTION 26 09 00 SYSTEM SUPPLIER. LIGHT FIXTURES SHALL BE POWERED FROM LIGHTING PANEL LP–80 THROUGH A CONTACTOR IN THE EXTERIOR LIGHTING CONTROL PANEL.
3. REFER TO SPECIFICATION SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE SCADA SYSTEM.

KEY NOTES:

(1) COORDINATE NEW UTILITY SERVICE WITH UTILITY COMPANY. REFER TO SPECIFICATION SECTION 26 21 00 FOR ADDITIONAL INFORMATION.

(2) OVERHEAD GARAGE DOOR CONTROLS FURNISHED AS SPECIFIED IN DIVISION 8 AND INSTALLED AND WIRED BY DIVISION 26. REFER TO DIVISION 8 OF THE SPECIFICATIONS FOR OPERATING DESCRIPTION AND ADDITIONAL CONTROLS TO BE INSTALLED AND WIRED BY DIVISION 26. MOTOR DISCONNECT SHALL BE MOUNTED ADJACENT TO MOTOR.

(3) PROVIDE OUTLET BOX FOR DIVISION–23 PROVIDED CONTROLLER. PROVIDE CAT6 CABLE IN 3/4" CONDUIT FROM CONTROLLER TO EACH FAN. CABLE SHALL BE DAISY CHAINED BETWEEN EACH FAN.

(4) PROVIDE 3~#14 AND #14 GROUND FOR POWER AND START/STOP SIGNAL IN 3/4" CONDUIT FROM OUTDOOR UNIT TO INDOOR UNIT.

(5) ONE POLE OF THE OCCUPANCY SENSOR SHALL CONTROL THE ROOM LIGHT AND THE OTHER POLE SHALL CONTROL THE ROOM EXHAUST FAN.

(6) ONE POLE OF THE OCCUPANCY SENSOR SHALL CONTROL THE ROOM LIGHTS AND THE OTHER POLE SHALL CONTROL EF–80–01. PROVIDE 2~#14 IN 3/4" CONDUIT FROM OCCUPANCY SENSOR TO EXHAUST FAN AND GAS DETECTOR CONTROL PANEL.

(7) PROVIDE OUTLET BOX AND 3/4" CONDUIT FROM BOX TO GAS UNIT HEATER FOR DIVISION 23–PROVIDED THERMOSTAT AND LOW–VOLTAGE WIRING.

(8) PROVIDE RECEPTACLE IN BACK OF NETWORK CABINET. BOND NETWORK CABINET GROUNDING BUSBAR TO LP–80 WITH #6 GROUND CONDUCTOR IN 3/4" CONDUIT.

(9) FIXTURE SHALL BE POWERED THROUGH THE EMERGENCY LIGHTING UPS IN ELECTRICAL ROOM 80104. THE FIXTURE SHALL BE SWITCHED AS INDICATED.

KEY NOTES CONTINUED:

(10) EMERGENCY LIGHTING UPS SHALL BE SURFACE MOUNTED ON THE WALL STACKED ABOVE EACH OTHER. ASSOCIATED FIXTURES SHALL BE WIRED IN SERIES THROUGH THE UPS FROM THE LOAD SIDE OF THE CONTROL DEVICE. EMERGENCY CIRCUITS SHALL BE INSTALLED WITHIN DEDICATED CONDUIT AND BOXES. PROVIDE SEPARATE REFERENCE VOLTAGE CIRCUIT TO POWER THE UPS FROM THE LINE SIDE OF THE CONTROL DEVICE.

(11) PROVIDE 3~#14 IN 3/4" CONDUIT FROM PHOTOCELL TO EXTERIOR LIGHTING CONTROL PANEL.

(12) OCCUPANCY SENSOR SHALL BE FOR CONTROL OF EF–80–01 ONLY. PROVIDE 2~#14 AND #14 GROUND FOR POWER AND 2~#14 FOR CONTROL IN 3/4" CONDUIT FROM OCCUPANCY SENSOR TO EXHAUST FAN AND GAS DETECTOR CONTROL PANEL.

(13) PROVIDE 2~#14 AND #14 GROUND IN 3/4" CONDUIT FOR 24VDC POWER AND SH.PR. CABLE IN 3/4" CONDUIT FOR SIGNAL FROM GAS TRANSMITTER TO GAS MONITORING CONTROLLER IN EXHAUST FAN AND GAS DETECTOR CONTROL PANEL.

(14) PROVIDE 3~#12 AND #12 GROUND FOR EXHAUST FAN POWER AND 2~#14 AND #14 GROUND FOR DAMPER CONTROL IN 3/4" CONDUIT FROM EXHAUST FAN AND GAS DETECTOR CONTROL PANEL TO EXHAUST FAN MOTOR (EF–80–01) AND ASSOCIATED DAMPER.

(15) EXHAUST FAN SHALL RUN CONTINUOUSLY. ASSOCIATED DAMPER ACTUATOR SHALL BE POWERED SUCH THAT THE DAMPER IS OPEN WHEN THE EXHAUST FAN IS RUNNING AND IS CLOSED WHEN THE EXHAUST FAN IS SHUT DOWN.

(16) CO TRANSMITTER SHALL BE INSTALLED 5'–6" AFF.

(17) NO2 TRANSMITTER SHALL BE INSTALLED 1'–6" AFF.

(18) PROVIDE 2~#14 IN 3/4" CONDUIT FROM FIRE RELAY ON THE FAN TO THE FIRE ALARM CONTROL PANEL.

KEY NOTES CONTINUED:

(19) CONTROL PANEL FURNISHED BY SECTION 26 09 00 SYSTEM SUPPLIER.

(20) WIRELESS RADIO SYSTEM SHALL BE POWERED FROM THE FIRE ALARM PANEL. PROVIDE WIRE AND CONDUIT BETWEEN FIRE ALARM PANEL AND WIRELESS RADIO AS RECOMMENDED BY THE MANUFACTURER.

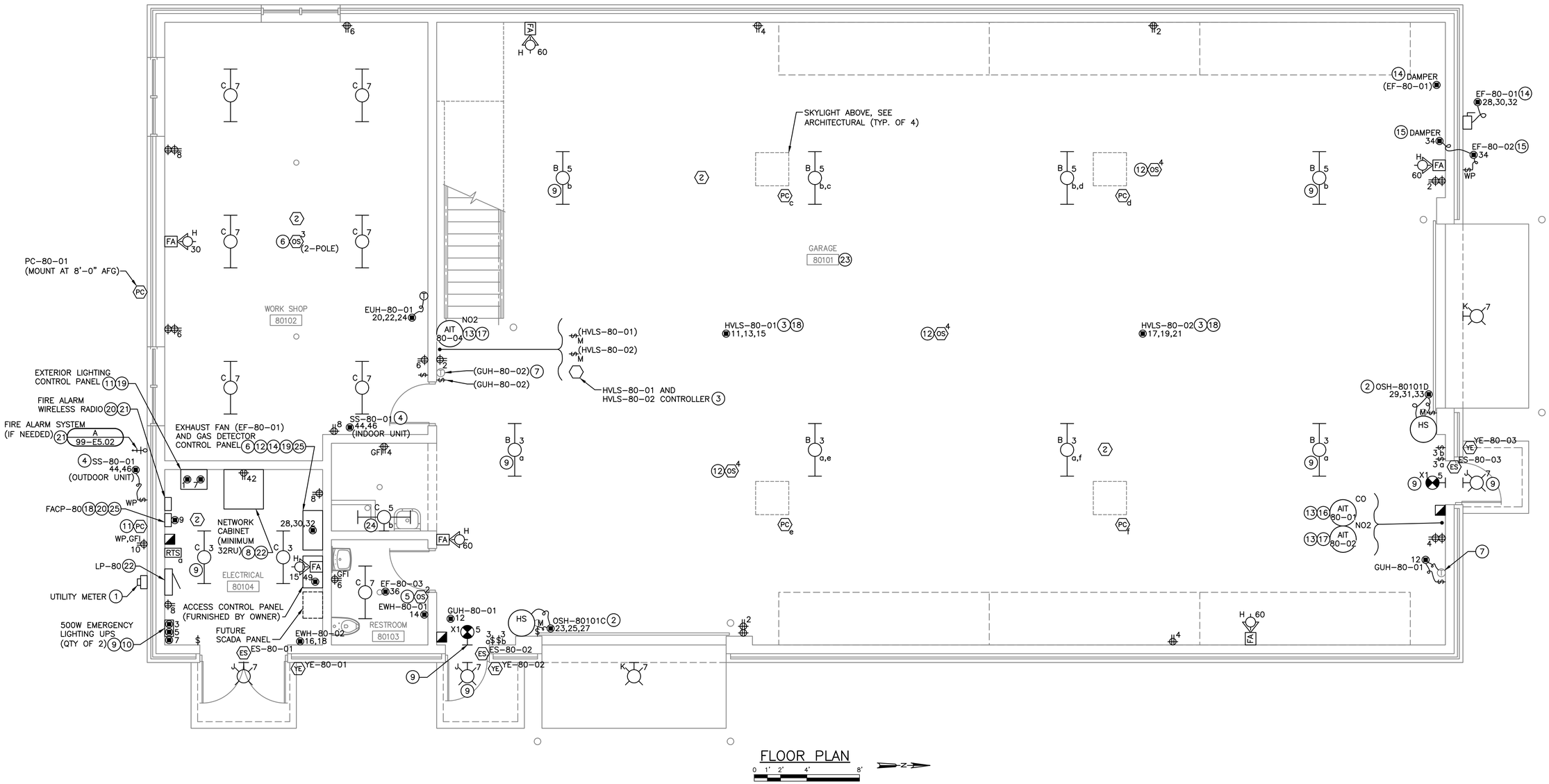
(21) REMOTE MOUNTED ANTENNA SHALL BE INSTALLED IF PROVIDED BY FIRE ALARM SYSTEM SUPPLIER. ANTENNA CABLE SHALL BE INSTALLED IN 2" CONDUIT WITH LONG SWEEP ELBOWS FROM FIRE ALARM WIRELESS RADIO TO ANTENNA.

(22) PROVIDE #6 INSULATED GROUND CONDUCTOR IN 3/4" CONDUIT FROM TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) IN NETWORK CABINET TO GROUND BUS IN LP–80.

(23) PENDANT MOUNT LIGHT FIXTURES AND OCCUPANCY SENSORS IN THIS AREA AT 15'–0" AFF.

(24) MOUNT LIGHT FIXTURE AT 10'–0" AFF.

(25) PROVIDE REQUIRED CONDUIT AND WIRING BETWEEN GAS MONITORING CONTROLLER WITHIN EXHAUST FAN AND GAS DETECTOR CONTROL PANEL AND FIRE ALARM CONTROL PANEL FOR INDICATING HIGH NO2 CONCENTRATION AND HIGH CO GAS CONCENTRATION ALARMS AT THE FIRE ALARM PANEL.



NO.	REVISIONS	DATE:
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ELECTRICAL PLAN - 1

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WINNEBAGO COUNTY, ILLINOIS

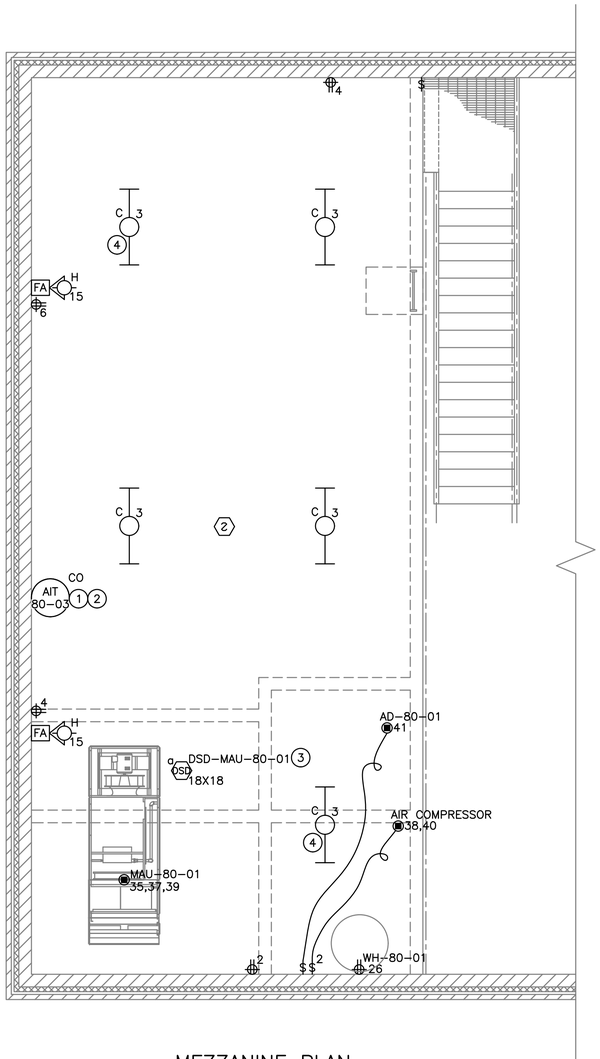
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PROJECT MGR. RYAN WOOD

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SHEET 62 80-E1.01

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MEZZANINE PLAN

0 1' 2' 4' 8'

KEY NOTES:

1. PROVIDE 2~#14 AND #14 GROUND IN 3/4" CONDUIT FOR 24VDC POWER AND SH.PR. CABLE IN 3/4" CONDUIT FOR SIGNAL FROM GAS TRANSMITTER TO GAS MONITORING CONTROLLER IN EXHAUST FAN AND GAS DETECTOR CONTROL PANEL SHOWN ON DRAWING 80-E1.01.
2. CO TRANSMITTER SHALL BE INSTALLED 5'-6" AFF.
3. DUCT SMOKE DETECTOR SHALL BE INSTALLED ON VERTICAL FACE OF DUCT. SAMPLING TUBE SHALL EXTEND TO OPPOSITE DUCT WALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE REQUIRED CONDUIT AND WIRING BETWEEN DUCT SMOKE DETECTOR AND REMOTE TEST SWITCH IN ELECTRICAL ROOM 80104.
4. FIXTURE SHALL BE POWERED THROUGH THE EMERGENCY LIGHTING UPS IN ELECTRICAL ROOM 80104 SHOWN ON DRAWING 80-E1.01. THE FIXTURE SHALL BE SWITCHED AS INDICATED.

NO.	REVISIONS	DATE:
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ELECTRICAL PLAN - 2

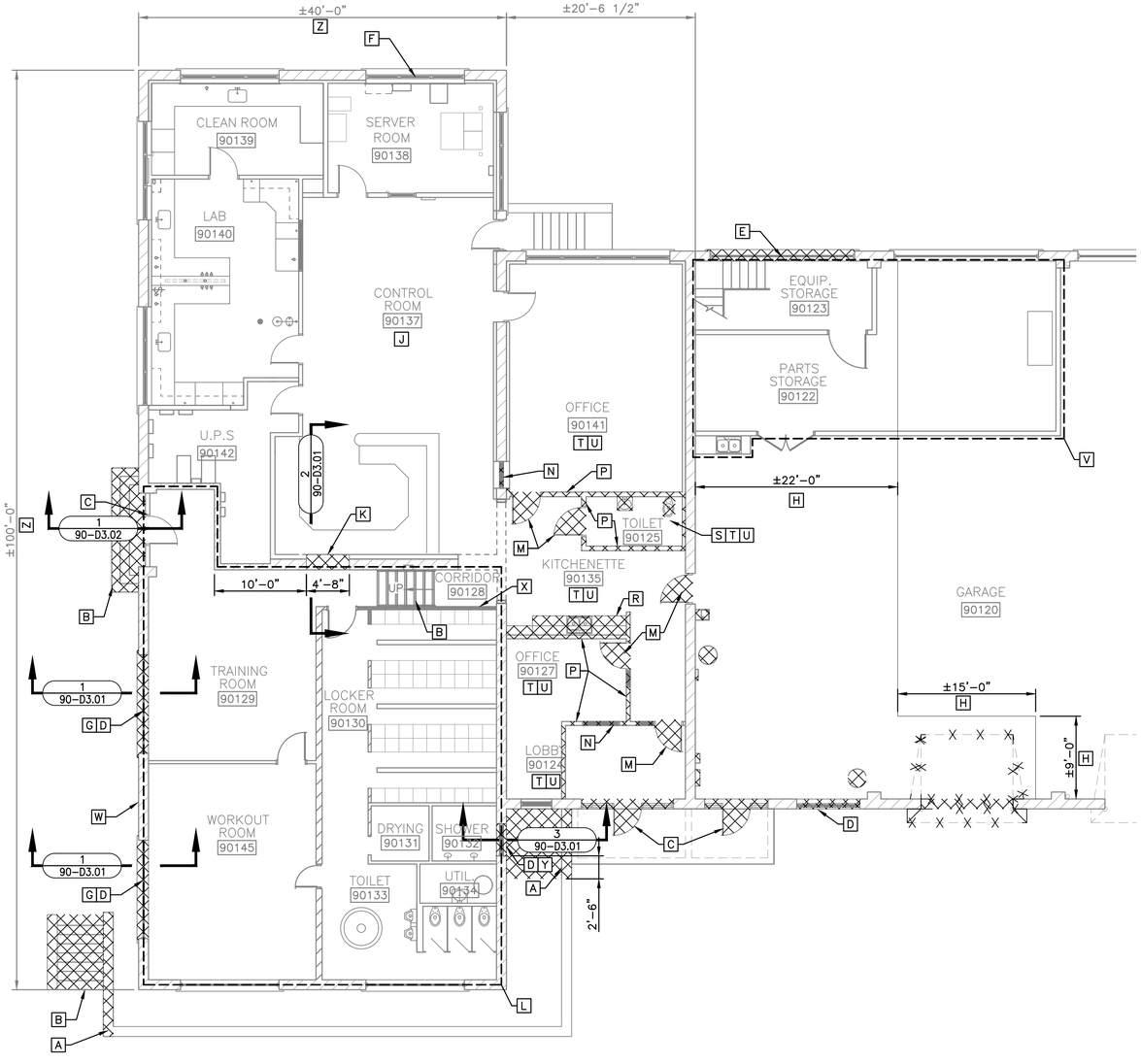
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WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

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SHEET 63
80-E1.02



FIRST FLOOR DEMOLITION PLAN

0 2' 4' 8' 16'

GENERAL DEMOLITION NOTES:

1. SEE SPECIFICATIONS FOR GENERAL DEMOLITION REQUIREMENTS.
2. EXISTING INFORMATION SHOWN ON DRAWINGS WAS OBTAINED FROM EXISTING DRAWINGS AND FIELD MEASUREMENTS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF EXISTING INFORMATION AS REQUIRED FOR NEW CONSTRUCTION.
3. DRAWINGS IN GENERAL DO NOT SHOW DIMENSIONS OF EXISTING CONSTRUCTION BUT ARE DRAWN APPROXIMATELY TO SCALE. CONTRACTOR SHALL OBTAIN ALL DIMENSIONS REQUIRED FOR NEW CONSTRUCTIONS.
4. PLANS DO NOT NECESSARILY SPELL OUT ALL ITEMS REQUIRING DEMOLITION, REMOVAL, OR PATCHING. WHERE NOT SHOWN, ALL DEMOLITION, REMOVAL, CUTTING, PATCHING, AND OTHER WORK NECESSARY TO ACCOMMODATE NEW CONSTRUCTION SHALL BE PROVIDED AS PART OF THE CONTRACT.
5. AT ALL LOCATIONS REQUIRING REMOVAL OF EXISTING WALLS, DOORS AND FRAMES, FIXTURES, EQUIPMENT, ETC., EXISTING FLOOR, CEILING, AND WALL SURFACES SHALL BE PATCHED OR FILLED AS REQUIRED AND AS APPROVED BY ENGINEER PRIOR TO PLACEMENT OF FINISHED FLOORING, CEILING, AND WALL COVERING.
6. NOT ALL EXISTING EQUIPMENT, PIPING, OR CONDUIT IS SHOWN. ALL LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTORS SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT, PIPING, CONDUIT, ETC.
7. ALL HOLES AND OPENINGS FROM EQUIPMENT, PIPES, CONDUIT, ETC. BEING REMOVED SHALL BE PATCHED AND FINISHED TO MATCH EXISTING OR AS NOTED ON ARCHITECTURAL DRAWINGS. MOLD PATCHES TO GROUT LINES AND REPAIRS ON BRICK AND BLOCK WALLS.
8. REMOVE ALL ABANDONED WIRING, PIPING, CONDUIT, EQUIPMENT, DUCTS, ETC.
9. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIALS ASSOCIATED WITH THE ITEMS BEING REMOVED AS SHOWN ON THIS DRAWING, AS WELL AS ALL EXISTING ELECTRICAL DEVICES, MATERIALS, EQUIPMENT, WIRING, AND EXPOSED CONDUITS NOT BEING REUSED. CONCEALED CONDUITS NOT BEING REUSED SHALL BE CAPPED AND ABANDONED IN PLACE.

DEMOLITION KEY NOTES:

A REMOVE CONCRETE RETAINING WALL TO TOP OF BRICK LEDGE.

B REMOVE CONCRETE STAIRS, FOUNDATIONS, AND ASSOCIATED RAILINGS IN ENTIRETY. SAWCUT AND REMOVE FOUNDATION WALL AT STOREFRONT DOOR THRESHOLD DOWN TO EL.729.00.

C REMOVE ALUMINUM STOREFRONT AND DOOR ASSEMBLY AND ASSOCIATED HARDWARE IN ENTIRETY.

D REMOVE ALUMINUM FRAME WINDOW IN ENTIRETY. FILL AS SHOWN ON ARCHITECTURAL DRAWINGS.

E REMOVE STEEL FRAME WINDOW IN ENTIRETY. FILL AS SHOWN ON ARCHITECTURAL DRAWINGS.

F REMOVE PLASTIC GLAZING FROM ALUMINUM WINDOW ASSEMBLY. REGLAZE AS NOTED ON ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS.

G REMOVE STONE SILL AND PORTION OF EXTERIOR MASONRY WALL BELOW WINDOW. SALVAGE AND TEMPORARILY STORE SILL AND EXISTING BRICK FOR REUSE IN NEW CONSTRUCTION.

H SAWCUT AND REMOVE CONCRETE SLAB–ON–GRADE IN ENTIRETY FROM EAST TO WEST EXTERIOR WALLS. PATCH AND FILL AS REQUIRED.

J REMOVE ACOUSTIC CEILING TILE AS REQUIRED FOR MODIFICATION AND NEW ACOUSTIC CEILING INSTALLATION. REFER TO DRAWING 90–DE1.01 AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

K SAWCUT AND REMOVE PORTION OF CONCRETE FOUNDATION WALL AND MASONRY WALL. PATCH AND FILL AS REQUIRED.

L CONTRACTOR SHALL PROVIDE THE FOLLOWING IN DELINEATED AREA:
   a. SAWCUT AND REMOVE CONCRETE SLAB–ON–GRADE IN ENTIRETY.
   b. REMOVE EXISTING SUBGRADE DOWN TO ± EL. 728.50.
   c. REMOVE ALL INTERIOR STUD AND MASONRY WALLS IN ENTIRETY.
   d. REMOVE ALL INTERIOR DOORS, WINDOWS, FRAMES, AND ASSOCIATED HARDWARE.
   e. REMOVE ALL INTERIOR FINISHES INCLUDING FLOORING, WALL COVERINGS, CEILING TILES AND GRIDS, AND GYPSUM BOARD CEILING SYSTEMS.
   f. REMOVE ALL RESTROOM AND LOCKER ROOM SPECIALTIES AND ACCESSORIES INCLUDING LOCKERS, BENCHES, SOAP DISPENSERS, TOILET TISSUE DISPENSERS, ETC.
   g. REMOVE ALL PLUMBING FIXTURES INCLUDING LAVATORIES, WATER CLOSETS, URINALS, SHOWERS, ETC.
   h. MECHANICAL DEMO NOTE(S)

M REMOVE DOOR, FRAME, AND ASSOCIATED HARDWARE.

N REMOVE WINDOW.

P REMOVE STUD AND DRYWALL PARTITION WALL IN ENTIRETY. PATCH FLOORING AS REQUIRED.

R REMOVE CASEWORK, COUNTERTOP, SINK, AND ASSOCIATED FIXTURES IN ENTIRETY. PATCH AND FILL AS REQUIRED.

S REMOVE ALL PLUMBING FIXTURES AND RESTROOM SPECIALTIES AND ACCESSORIES.

T REMOVE ALL ACOUSTIC CEILING TILE AND GRID.

U REMOVE FLOORING AND BASE (SHEET VINYL IN ROOMS 124, 127, 135, & 141. CERAMIC TILE IN ROOM 125). PATCH AND FILL AS REQUIRED.

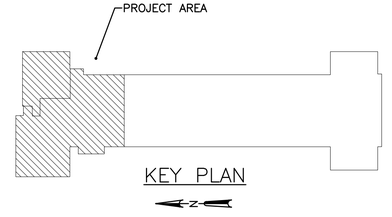
V CONTRACTOR SHALL PROVIDE THE FOLLOWING IN DELINEATED AREA:
   a. REMOVE WOOD STUD AND WIRE MESH WALLS.
   b. REMOVE WOOD FRAMED STAIRS AND PLATFORM
   c. REMOVE SINK AND ASSOCIATED FIXTURES.
   d. MECHANICAL DEMO NOTE(S)

W REMOVE BRICK VENEER BELOW STONE SILL BETWEEN WINDOWS. SALVAGE BRICK VENEER AND TEMPORARILY STORE FOR INSTALLATION IN NEW CONSTRUCTION.

X REMOVE CONCRETE FOUNDATION WALL WEST OF STAIR IN ENTIRETY.

Y REMOVE BRICK VENEER BELOW WINDOW AS REQUIRED FOR INSTALLATION OF NEW DOOR. SAWCUT AND REMOVE FOUNDATION WALLS AS REQUIRED FOR INSTALLATION OF NEW DOOR.

Z REMOVE ADHERED MEMBRANE ROOF, INSULATION, AND COPING ON LOW ROOF IN ENTIRETY.



KEY PLAN

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DEMOLITION PLAN

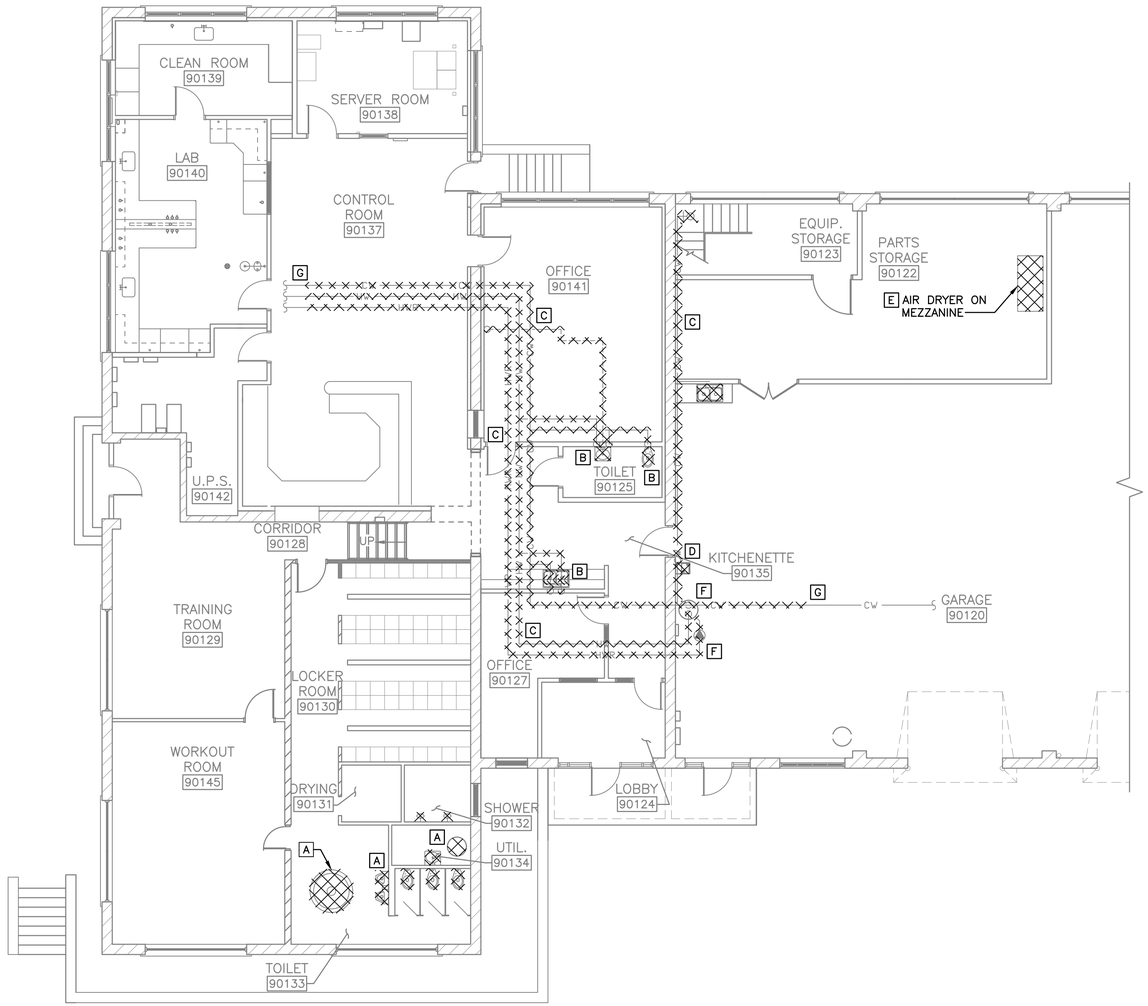
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO.
1110.037

PROJECT MGR.
RYAN WOOD

STRAND ASSOCIATES®

SHEET
64
90-D1.01



PLUMBING DEMOLITION PLAN

0 2' 4' 8' 16'

GENERAL DEMOLITION NOTES:

1. CONTRACT DOCUMENTS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
2. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
3. ALL WORK SHALL BE COORDINATED WITH ALL TRADES TO ELIMINATE ANY CONFLICTS BETWEEN PIPING, DUCTWORK, FIRE PROTECTION, ELECTRICAL WORK, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OFFSETS REQUIRED FOR COMPLETE SYSTEM INSTALLATION.
4. DRAWINGS, IN GENERAL, DO NOT SHOW DIMENSIONS OF EXISTING CONSTRUCTION BUT ARE DRAWN APPROXIMATELY TO SCALE. CONTRACTOR SHALL OBTAIN ALL DIMENSIONS IN FIELD REQUIRED FOR DEMOLITION.
5. EXISTING INFORMATION SHOWN ON DRAWINGS WAS TAKEN FROM EXISTING PLANS AND IS APPROXIMATE. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY CONTRACTOR.
6. DRAWINGS DO NOT NECESSARILY SPELL OUT ALL ITEMS REQUIRING DEMOLITION, REMOVAL, OR PATCHING. WHERE NOT SHOWN, ALL DEMOLITION, REMOVAL, CUTTING AND PATCHING, AND OTHER WORK NECESSARY TO ACCOMMODATE NEW CONSTRUCTION SHOWN SHALL BE PROVIDED AS PART OF CONTRACT.
7. PATCHING OF UNUSED PENETRATIONS REMAINING AFTER DEMOLITION SHALL BE PATCHED BY THIS CONTRACTOR. PATCHES SHALL MATCH SURROUNDING SURFACES.
8. CONTRACTOR SHALL DISPOSE OF ALL REMOVED MATERIALS IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
9. NO PIPING SHALL BE ABANDONED IN PLACE. ALL UNUSED EXISTING PIPING SHALL BE REMOVED. ALL EXISTING SLEEVES AND OPENINGS SHALL BE PATCHED.
10. MAINTAIN FIRE RATINGS OF PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLANS FOR FIRE RATED ASSEMBLY LOCATIONS AND RATINGS.
11. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIALS ASSOCIATED WITH THE ITEMS BEING REMOVED AS SHOWN ON THIS DRAWING, AS WELL AS ALL EXISTING ELECTRICAL DEVICES, MATERIALS, EQUIPMENT, WIRING, AND EXPOSED CONDUITS NOT BEING REUSED. CONCEALED CONDUITS NOT BEING REUSED SHALL BE CAPPED AND ABANDONED IN PLACE.

DEMOLITION KEY NOTES:

[A] REMOVE ALL EXISTING PLUMBING FIXTURES, INCLUDING SINKS WATER CLOSETS, URINALS, SHOWERS, AND HOT WATER HEATERS. SANITARY PIPING SHALL BE REMOVED DURING FLOOR EXCAVATION. MOVE EXISTING SUPPLY PIPING FROM LOCKER ROOM BACK TO MAIN LOCATED IN GARAGE AS SHOWN.

[B] REMOVE EXISTING PLUMBING FIXTURES. REMOVE SUPPLY PIPING FROM FIXTURE BACK TO SUPPLY MAIN LOCATED IN GARAGE. SANITARY PIPNG SHALL BE PLUGGED AND ABANDONED IN PLACE.

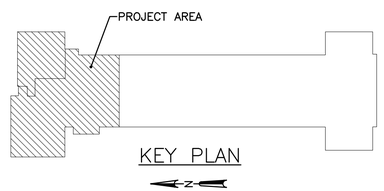
[C] REMOVE ALL SUPPLY PIPING FROM CONTROL ROOM TO SUPPLY MAIN LOCATED IN GARAGE. PIPING IN LABORATORY TO REMAIN.

[D] REMOVE EXISTING WATER COOLER, SUPPLY PIPING, AND SANITARY PIPING.

[E] REMOVE EXISTING AIR COMPRESSOR, CONTRACTOR TO SAVE FOR REUSE IN NEW MAINTANCE GARAGE. REMOVE COMPRESSED AIR PIPING FROM AIR COMPRESSOR TO CEILING AND PREPARE FOR RECONNECTION.

[F] REMOVE WATER HEATER, SUPPLY PIPING, AND ALL ASSOCIATED ACCESSORIES.

[G] PREPARE PIPING FOR RECONNECTION.



KEY PLAN

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PLUMBING DEMOLITION PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 65
90-D1.02

GENERAL DEMOLITION NOTES:

1. SEE DRAWING 90–D1.02 FOR GENERAL DEMOLITION NOTES.
2. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIALS ASSOCIATED WITH THE ITEMS BEING REMOVED AS SHOWN ON THIS DRAWING, AS WELL AS ALL EXISTING ELECTRICAL DEVICES, MATERIALS, EQUIPMENT, WIRING, AND EXPOSED CONDUITS NOT BEING REUSED. CONCEALED CONDUITS NOT BEING REUSED SHALL BE CAPPED AND ABANDONED IN PLACE.

DEMOLITION KEY NOTES:

[A] REMOVE ALL EXISTING SUPPLY AND RETURN DUCTWORK, SUPPORTS, GRILLES, AND ALL ASSOCIATED ACCESSORIES.

[B] REMOVE EXISTING RTU, DUCTWORK, ROOF CURB, AND ALL ASSOCIATED ACCESSORIES. ROOF OPENINGS SHALL BE CLOSED.

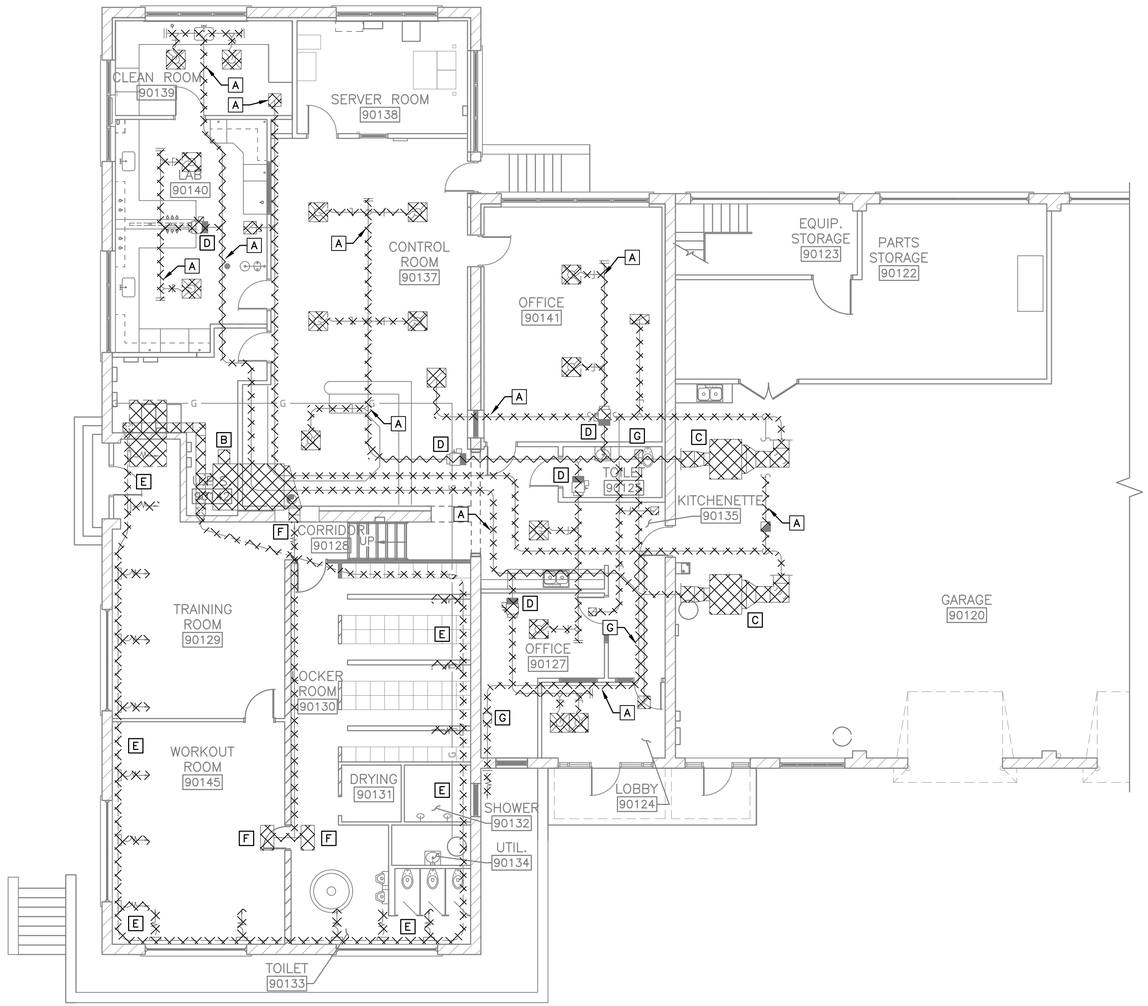
[C] REMOVE EXISTING BCU, DUCTWORK, ROOF CURB, AND ALL ASSOCIATED ACCESSORIES. EXISTING WALL AND ROOF OPENINGS SHALL BE FILLED TO MATCH SURROUNDING MATERIAL.

[D] REMOVE EXISTING VAV, SUPPORTS, THERMOSTATS, AND ALL ASSOCIATED ACCESSORIES.

[E] REMOVE EXISTING BELOW FLOOR DUCTWORK, GRILLES, AND SUPPORTS

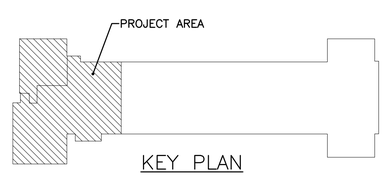
[F] REMOVE EXISTING RETURN DUCTWORK, GRILLES, AND SUPPORTS.

[G] REMOVE EXHAUST FAN, DUCTWORK, GRILLES, SUPPORTS, AND ALL ASSOCIATED ACCESSORIES.



HVAC DEMOLITION PLAN

0 2' 4' 8' 16'



KEY PLAN

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HVAC DEMOLITION PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

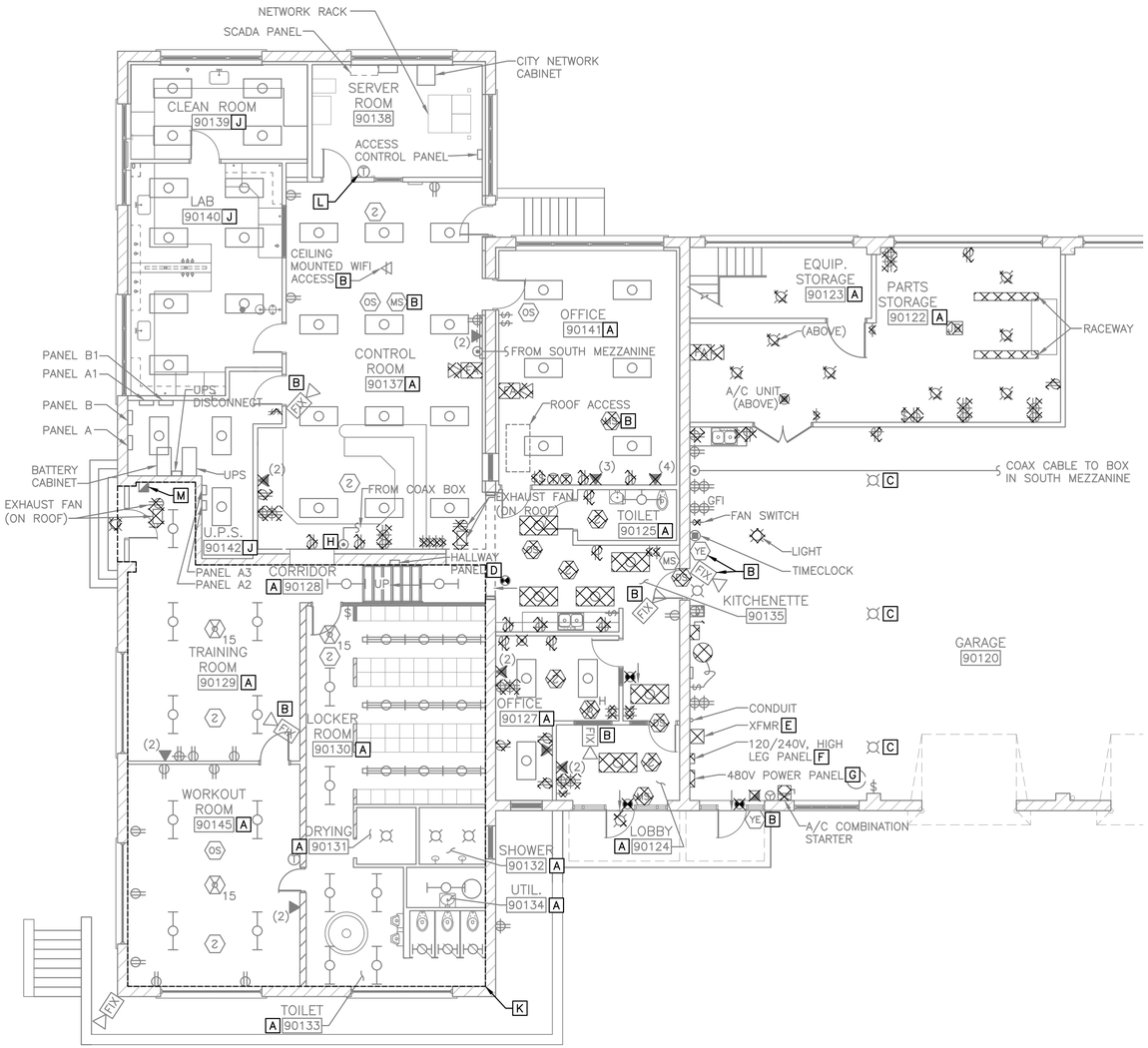
JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 66
90-D1.03

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FIRST FLOOR DEMOLITION PLAN

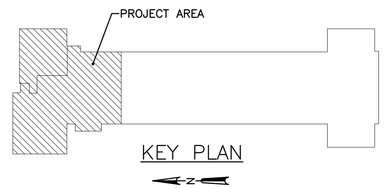
0 2' 4' 8' 16'

GENERAL DEMOLITION NOTES:

1. REMOVE ALL BRANCH CIRCUIT WIRING AND CONDUIT ASSOCIATED WITH THE ITEMS BEING REMOVED AS SHOWN ON THIS DRAWING, AS WELL AS ALL EXISTING ELECTRICAL DEVICES, MATERIALS, EQUIPMENT, WIRING, AND EXPOSED CONDUITS NOT BEING REUSED, UNLESS SPECIFICALLY NOTED OTHERWISE ON THIS DRAWING.
2. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIALS WITH THE ITEMS BEING REMOVED AS SHOWN ON THIS DRAWING, AS WELL AS ALL EXISTING ELECTRICAL DEVICES, MATERIALS, EQUIPMENT, WIRING, AND EXPOSED CONDUITS NOT BE REUSED. CONCEALED CONDUITS NOT BEING REUSED SHALL BE CAPPED AND ABANDONED IN PLACE.

DEMOLITION KEY NOTES:

- [A] REMOVE EXISTING LIGHT FIXTURES, SWITCHES, SMOKED DETECTORS, AND OCCUPANCY SENSORS IN THIS ROOM.
- [B] ALL WIFI, ACCESS CONTROL, AND VIDEO SURVEILLANCE DEVICES SHALL BE SALVAGED AND INSTALLED AS SHOWN ON SHEET 90-E1.01. UNUSED SALVAGED DEVICES SHALL BE TURNED OVER TO OWNER.
- [C] EXISTING LIGHT FIXTURE SHALL BE RELOCATED TO AREA SHOWN ON 90-E1.02.
- [D] REMOVE EXISTING HALLWAY PANEL.
- [E] REMOVE EXISTING TRANSFORMER.
- [F] REMOVE EXISTING 120/240V PANEL.
- [G] SALVAGE EXISTING 480V POWER PANEL. REMOVE EXISTING WIRING AND CONDUIT. RELOCATE PANEL AS SHOWN ON DRAWING 90-E1.03.
- [H] PROTECT COAX CABLE AND PREPARE FOR REROUTING AND EXTENDING AS SHOWN ON COAX RISER DIAGRAM ON SHEET 99-E6.02.
- [J] REMOVE EXISTING LIGHTING FIXTURES, SWITCHES, AND BRANCH CIRCUIT CONDUIT AND WIRING BETWEEN LIGHT FIXTURE SWITCHES AND LIGHT FIXTURES. RETAIN BRANCH CIRCUIT WIRING AND CONDUIT FROM LIGHTING PANEL TO ROOM FOR REUSE WITH NEW LIGHT FIXTURES AND SWITCHING.
- [K] REMOVE EXISTING LIGHTING FIXTURES, SWITCHES, SMOKE DETECTORS, THERMOSTATS, DATA JACKS, OCCUPANCY SENSORS, AND MOTION DETECTORS IN DELINEATED AREA, UNLESS NOTED OTHERWISE.
- [L] REMOVE EXISTING THERMOSTAT AND WIRING. PROTECT BOX AND CONDUIT FOR REUSE WITH NEW TEMPERATURE CONTROLLER AS SHOWN ON DRAWING 90-E1.01.
- [M] PROTECT EXISTING FIRE ALARM PULL STATION DURING DEMOLITION ACTIVITIES.



KEY PLAN

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ELECTRICAL DEMOLITION PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

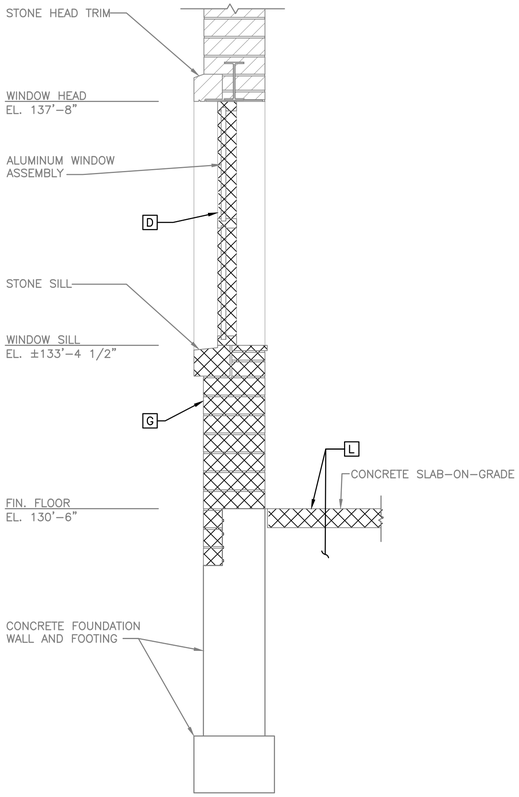
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SHEET 67 90-DE1.01

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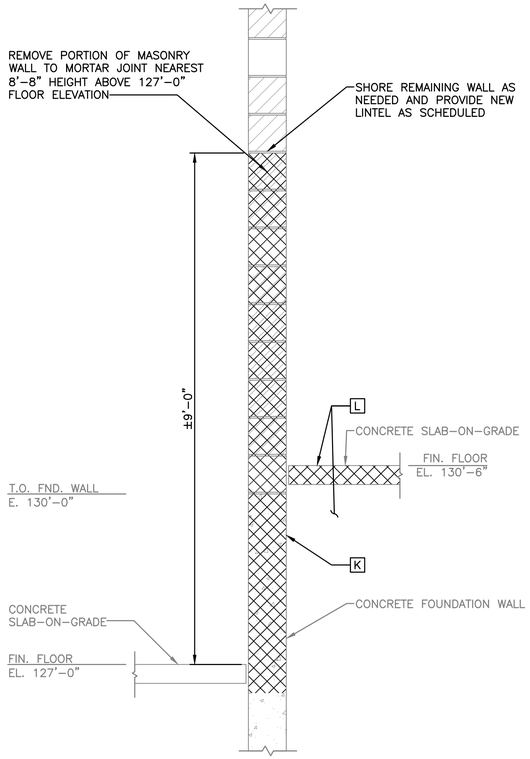
GENERAL DEMOLITION NOTES:

1. SEE DRAWING 90–D1.01 FOR DEMOLITION NOTES



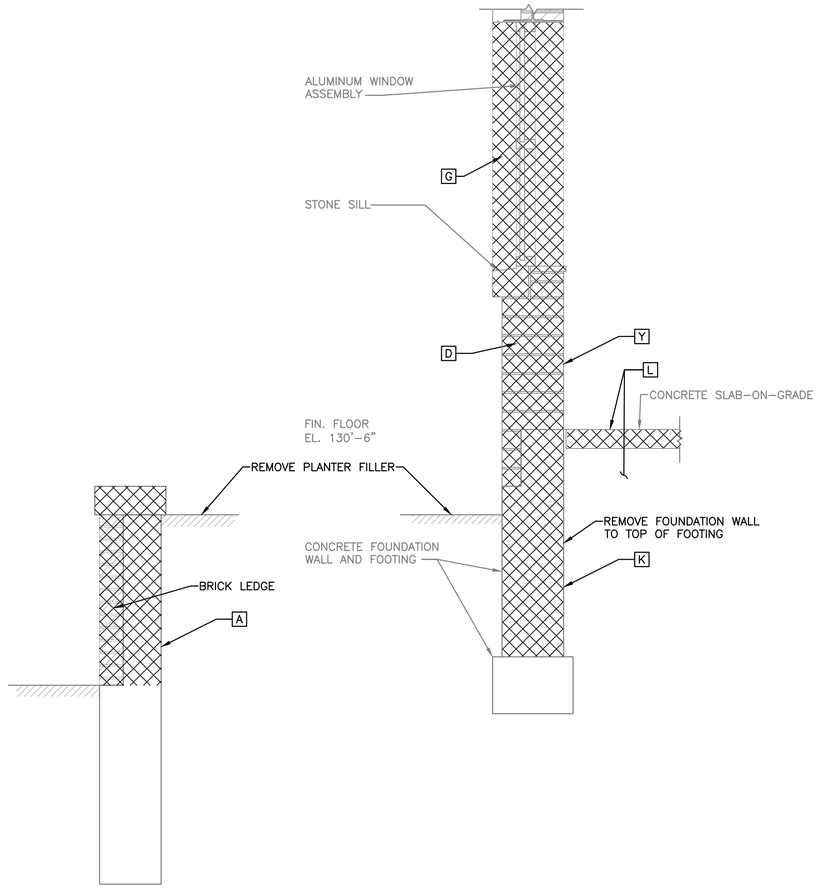
1 / 90–D3.01 DEMOLITION SECTION

0 1' 2'



2 / 90–D3.01 DEMOLITION SECTION

0 1' 2'



3 / 90–D3.01 DEMOLITION SECTION

0 1' 2'

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DEMOLITION SECTIONS

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CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

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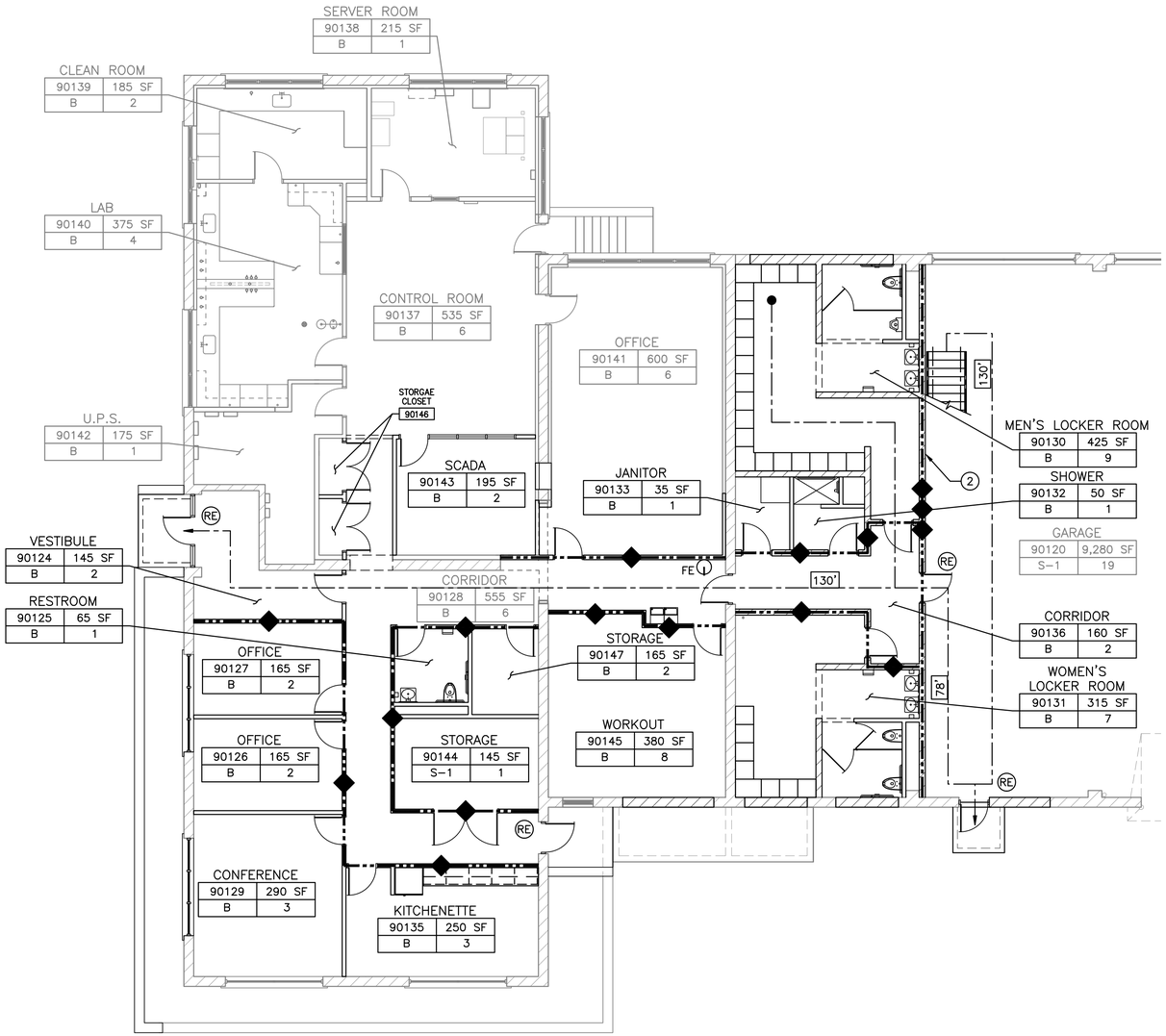
SHEET
68
90-D3.01

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KEY NOTES:

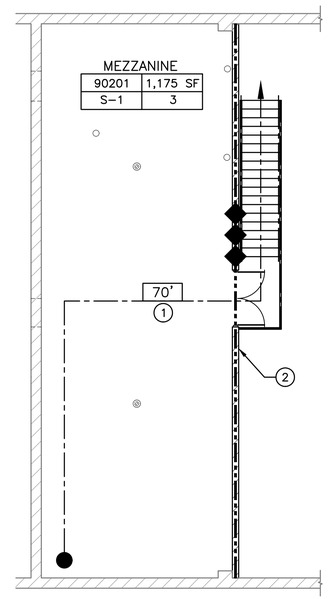
(1) COMMON PATH OF TRAVEL DISTANCE TO BOTTOM OF STAIR.

(2) 3-HOUR RATED CMU WALLS SHALL HAVE ALL CORES GROUTED FULL.



FIRST FLOOR LIFE SAFETY PLAN

0 2' 4' 8' 16'



MEZANINE LIFE SAFETY PLAN

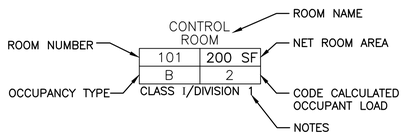
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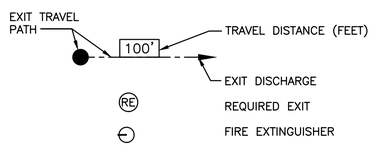
1-HOUR FIRE PARTITION

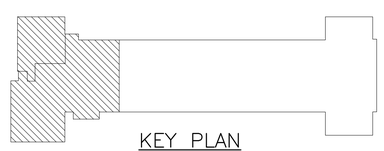
3-HOUR FIRE BARRIER

BUILDING CODE INFORMATION - ADMINISTRATION BUILDING			
BUILDING CODE	2021 INTERNATIONAL BUILDING CODE (WITH LOCAL AMENDMENTS)		
	2021 INTERNATIONAL EXISTING BUILDING CODE (WITH LOCAL AMENDMENTS)		
	2021 INTERNATIONAL FIRE CODE (WITH LOCAL AMENDMENTS)		
	2021 INTERNATIONAL FUEL GAS CODE (WITH LOCAL AMENDMENTS)		
	2021 INTERNATIONAL MECHANICAL CODE (WITH LOCAL AMENDMENTS)		
	2021 ILLINOIS STATE ENERGY CODE (WITH LOCAL AMENDMENTS)		
	2014 ILLINOIS PLUMBING CODE (WITH LOCAL AMENDMENTS)		
	2020 NFPA 70 NATIONAL ELECTRICAL CODE (WITH LOCAL AMENDMENTS)		
	2017 ICC A117.1 (ADA)		
SCOPE OF WORK:			
LEVEL 2 ALTERATION AND PARTIAL CHANGE OF OCCUPANCY OF EXISTING ADMINISTRATION BUILDING AND VEHICLE STORAGE GARAGE.			
OCCUPANCY TYPE	SEPARATED USE		
USE GROUPS	B (BUSINESS)		
	S-1 (MODERATE-HAZARD STORAGE)		
CONSTRUCTION TYPE	2B		
OCCUPANCY SEPARATION	B:S-1 (3-HOUR)[1]		
GENERAL BUILDING INFORMATION			
	ALLOWABLE		ACTUAL
NO. OF STORIES	NOT APPLICABLE		1 STORY
HEIGHT	NOT APPLICABLE		± 27 FEET
AREA PER FLOOR LEVEL			
USE GROUP	AREA		
B (EXISTING NO ALTERATIONS)	6,665 SF		
B (ALTERATION LEVEL 2)	2,775 SF		
B (CHANGE OF OCCUPANCY FROM S-1)	1,130 SF		
S-1 (EXISTING NO ALTERATIONS)	10,440 SF		
TOTAL BUILDING AREA	± 21,000 SF		
PROJECT AREA[2]	± 4,840 SF		
FIRE SUPPRESSION SYSTEM			
PORTABLE FIRE EXTINGUISHERS; RATED CLASS A, B, C 10-POUND CAPACITY.			
NUMBER OF OCCUPANTS			
FUCTION OF SPACE	OCCUPANT LOAD FACTOR		
ACCESSORY STORAGE AREAS, MECH. EQUIP. ROOM	300 GROSS		
BUSINESS AREAS	100 GROSS		
EXERCISE ROOMS	50 GROSS		
LOCKER ROOMS	50 GROSS		
WAREHOUSES	500 GROSS		
ACTUAL NUMBER OF OCCUPANTS	ZERO PERMANENT OCCUPANTS. ONLY PRESENT FOR MAINTENANCE AND OPERATION.		
MEANS OF EGRESS			
USE GROUP	COMMON PATH	EXIT ACCESS	
B	75 FEET	200 FEET	
S-1	75 FEET	200 FEET	
NOTES:			
1. FIRE AREA SEPARATION PER TABLE 707.3.10.			
2. PROJECT AREA DOES NOT ADD TO BUILDING AREA OR HEIGHT.			

LIFE SAFETY LEGEND







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LIFE SAFETY PLAN

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CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

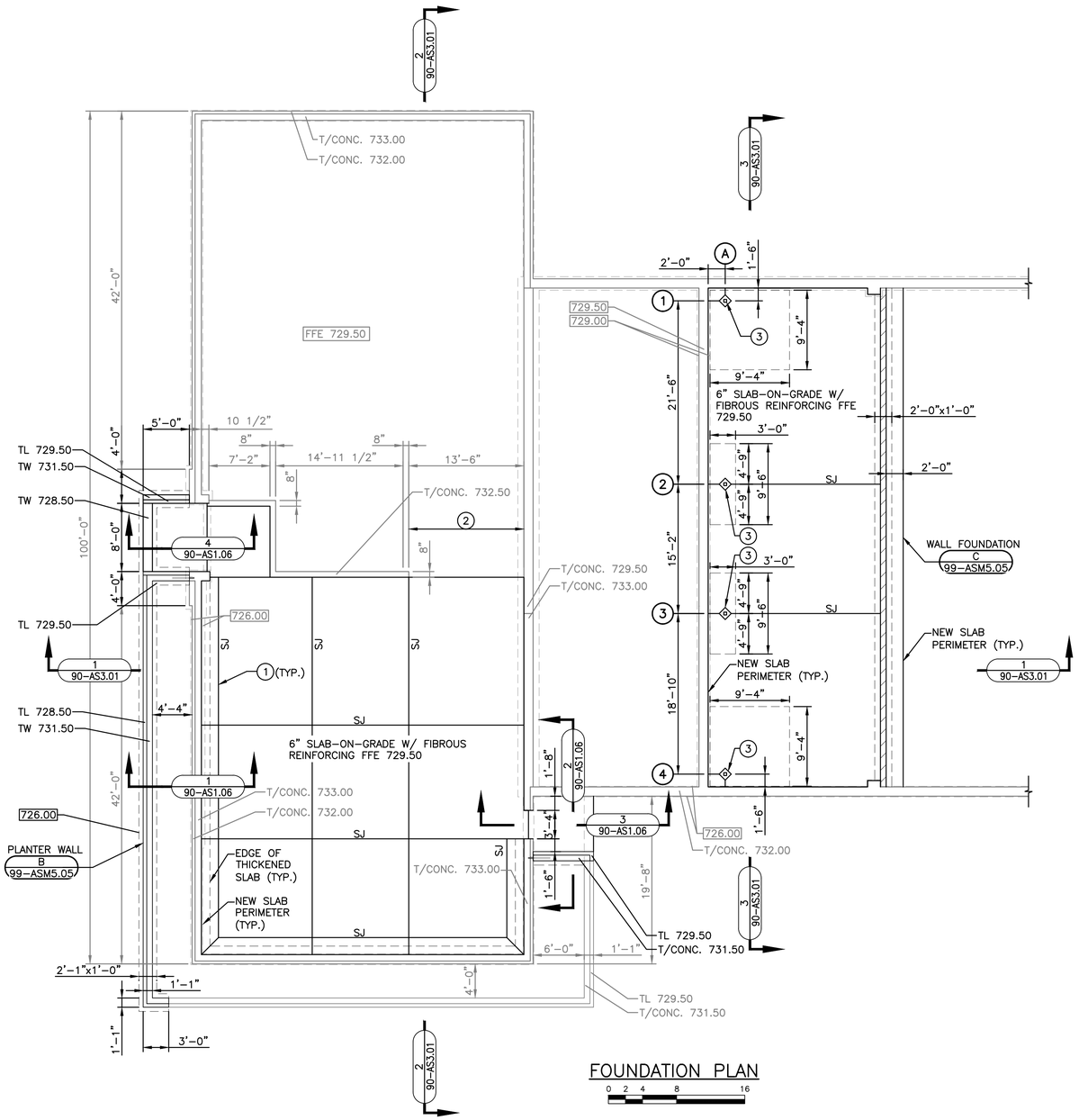
JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

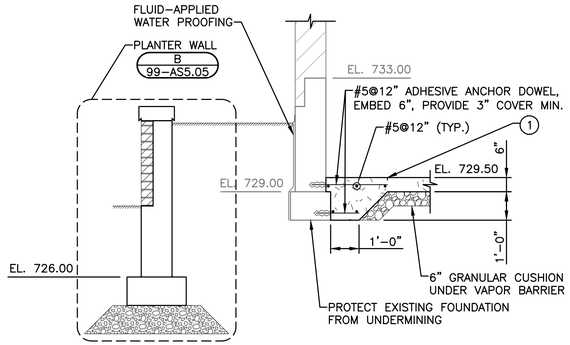
STRAND ASSOCIATES®

SHEET 69

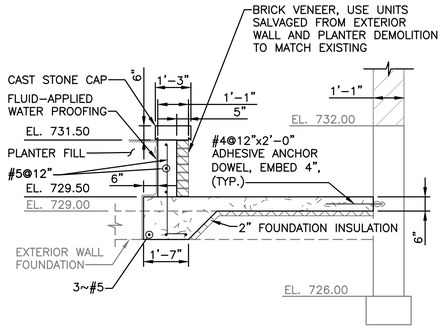
90-AS1.01



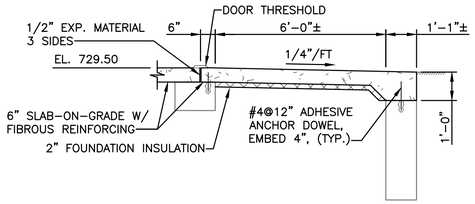
FOUNDATION PLAN



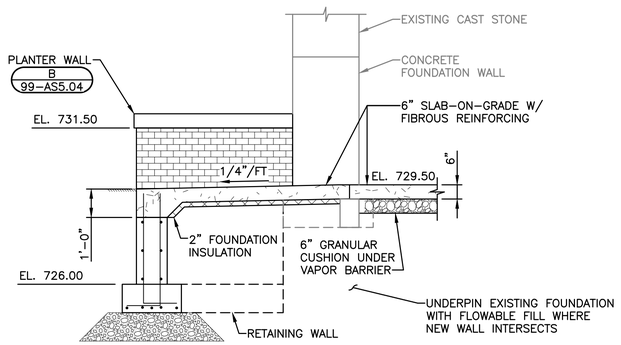
SECTION 1 / 90-AS1.02



SECTION 2 / 90-AS1.02



SECTION 3 / 90-AS1.02



SECTION 4 / 90-AS1.02



KEY PLAN

GENERAL NOTES:

1. SEE E / 99-ASM5.04 FOR FOUNDATION DIAGRAM
2. FINISHED FLOOR ELEVATION = 729.50 UNLESS NOTED OTHERWISE. SLOPE TO DRAINS AS NOTED.

KEY NOTES:

(1) SAWN JOINT (SJ) JOINTS SHALL BE 15'-0" O.C. MAX A / 99-ASM5.04

(2) AT INTERFACE BETWEEN NEW AND EXISTING FLOOR SLAB, EMBED #4@12" ADHESIVE ANCHORS, CENTERED IN EXISTING SLAB, AND EXTEND 12" INTO NEW SLAB.

(3) SEE G / 99-ASM5.04 FOR FOOTING DETAILS

NO.	REVISIONS	DATE:
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FOUNDATION PLAN

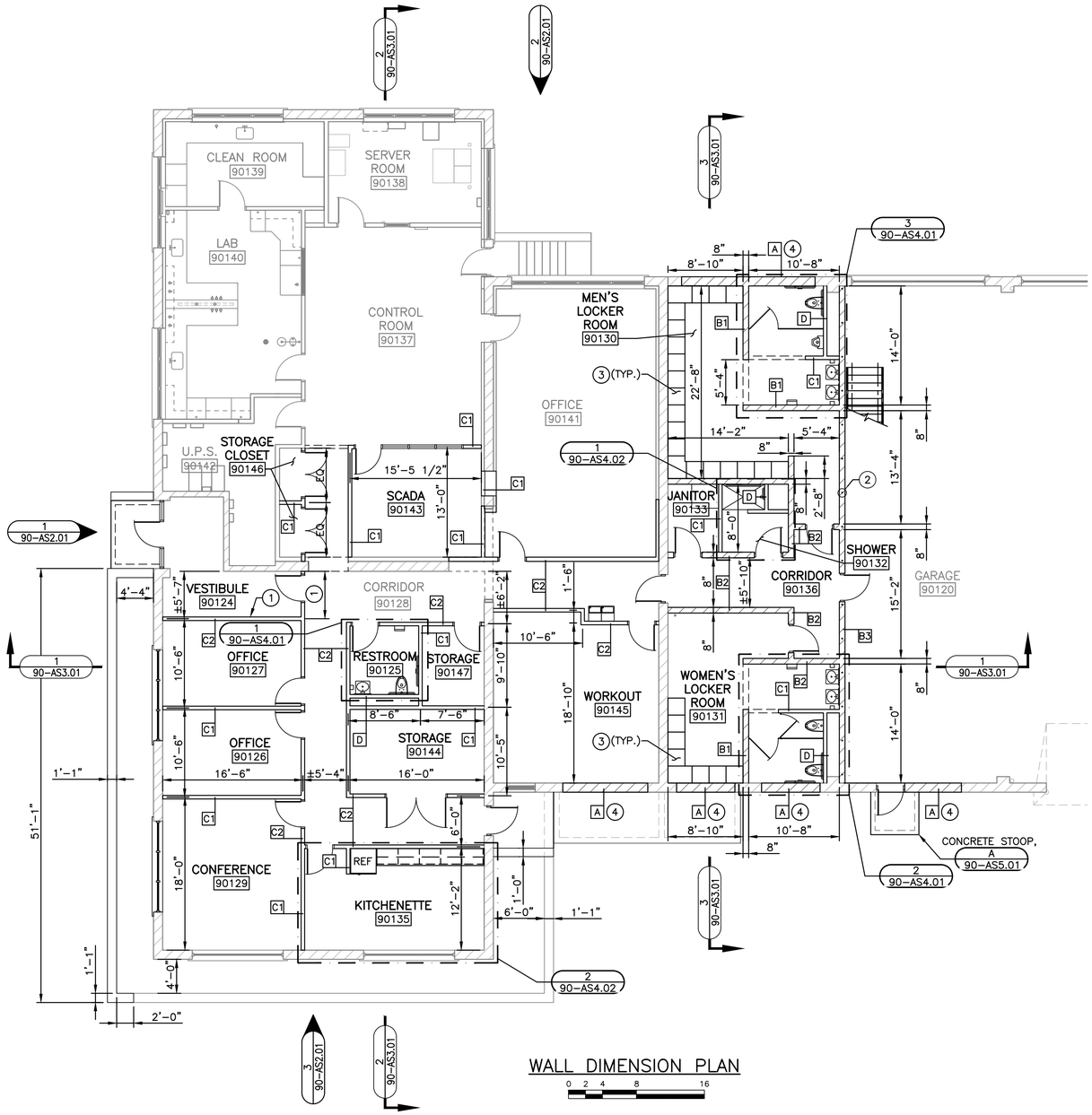
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 70 **90-AS1.02**



WALL DIMENSION PLAN

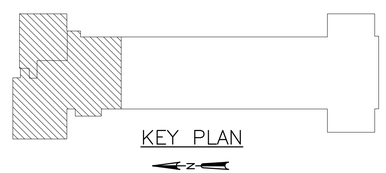
0 2 4 8 16

GENERAL NOTES:

1. UNLESS SHOWN OR NOTED OTHERWISE, DIMENSIONS TO INTERIOR PARTITION WALLS ARE GIVEN TO CENTERLINE OF STUD. DIMENSIONS TO MASONRY AND EXISTING WALLS ARE GIVEN FROM FACE OF WALL.
2. SEE ROOM FINISH SCHEDULE AND SPECIFICATIONS FOR TREATMENT OF WALLS, FLOORS, AND CEILINGS NOT CALLED OUT ON DRAWINGS.
3. SEE 90–AS5.01 FOR WALL TYPES.

KEY NOTES:

(1) EXTEND WALL TO UNDERSIDE OF EXISTING ROOF DECK.
(2) #4@48" VERTICAL MASONRY REINFORCING IN FULLY GROUTED 8" CMU WALL.
(3) 23X24" METAL LOCKER ON CONCRETE BASE, L / 99–AS5.02.
(4) BASE OF WALL INFILL, C / 90–AS5.01.



KEY PLAN

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

WALL DIMENSION PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

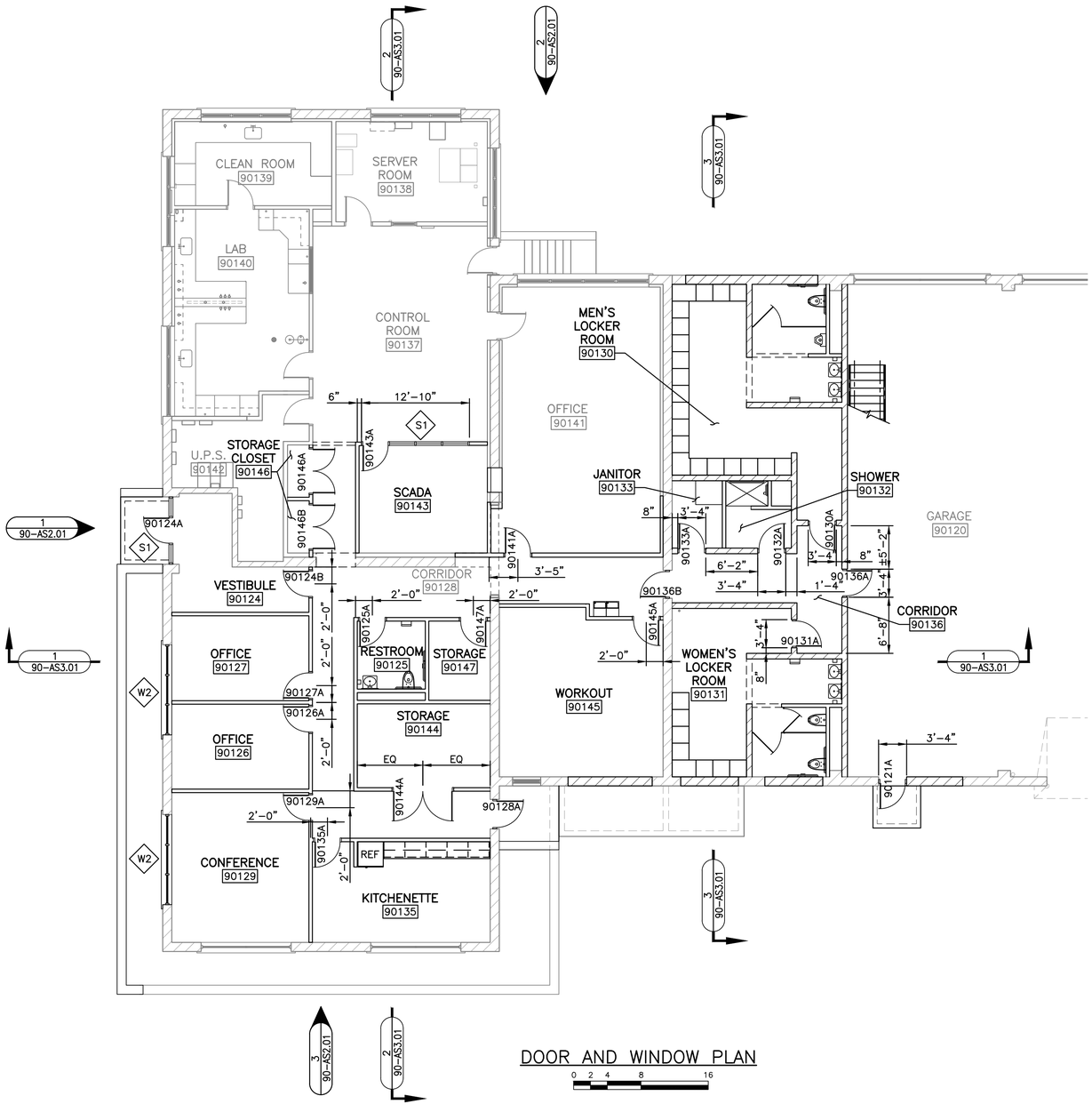
JOB NO. 1110.037
PROJECT MGR. RYAN WOOD

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SHEET 71
90-AS1.03

GENERAL NOTES:

1. UNLESS SHOWN OR NOTED OTHERWISE, DIMENSIONS TO INTERIOR PARTITION WALLS ARE GIVEN TO CENTERLINE OF STUD. DIMENSIONS TO MASONRY AND EXISTING WALLS ARE GIVEN FROM FACE OF WALL.



DOOR AND WINDOW PLAN

0 2 4 8 16



NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

DOOR AND WINDOW PLAN

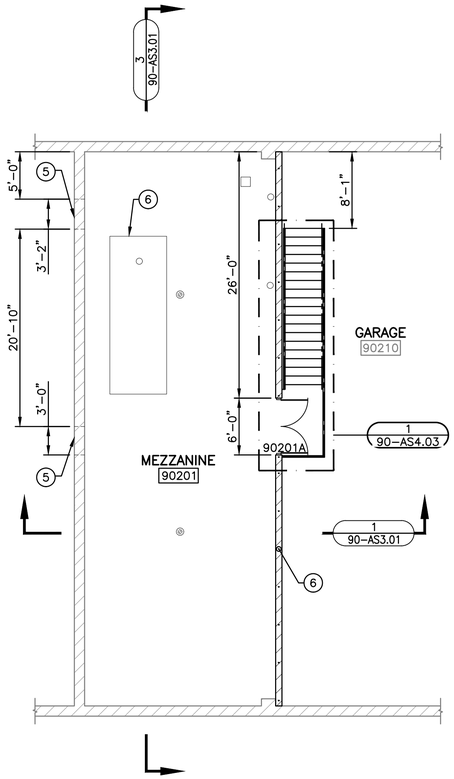
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

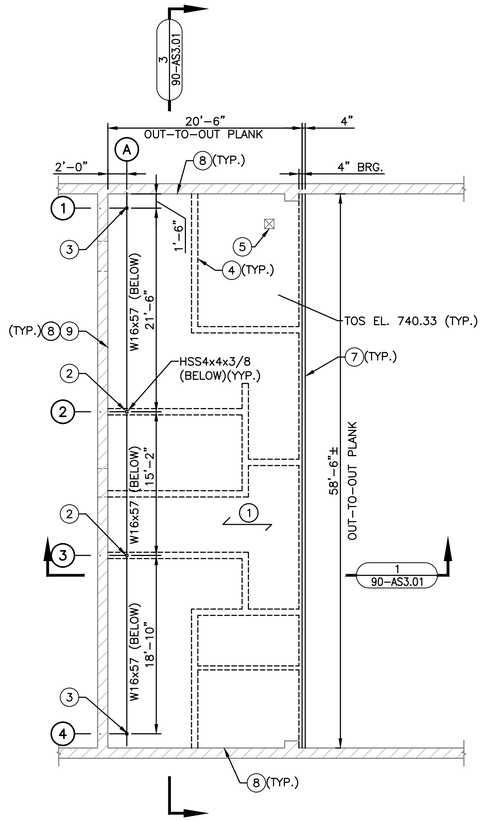
STRAND ASSOCIATES®

SHEET 72
90-AS1.04



MEZZANINE PLAN

0 2' 4' 8' 16'



PRECAST PLANK PLAN AND FRAMING PLAN

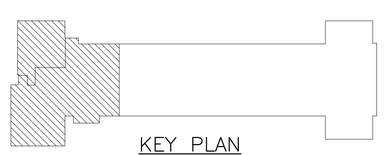
0 2' 4' 8' 16'

GENERAL NOTES:

1. SEE DRAWING 90–AS1.03 FOR GENERAL NOTES.
2. SEE ROOM FINISH SCHEDULE AND SPECIFICATIONS FOR TREATMENT OF WALLS, FLOORS, AND CEILINGS NOT CALLED OUT ON DRAWINGS.
3. SUPERIMPOSED MEZZANINE LOADS
   L = 150 PSF
   AHU = 4450 LB. VERIFY W/ MANUFACTURER
4. SEE (J / 99–AS5.04) FOR STEEL CONNECTION DETAILS OF PRECAST SUPPORTS

KEYNOTES

1. 8" PRECAST PLANK W/ 2" TOPPING SPAN. CANTILEVER PLANK ENDS TO EXISTING WALL WEST OF STEEL BEAM
2. EMBED STEEL COLUMN IN CMU WALL CORE
3. MODIFY CORNER LOCKER AT COLUMN FOR COLUMN TO PASS THROUGH TOP OF LOCKER.
4. NON–BEARING WALL, (C / 99–AS5.01) (TYP.)
5. AHU OPENING. SEE H PLAN.
6. #4@48" VERTICAL MASONRY REINFORCING IN FULLY GROUTED 8" CMU WALL.
7. SEE (A / 90–AS5.01) FOR PLANK BEARING.
8. SEE (B / 90–AS5.01) FOR PLANK AT EXISTING WALL.
9. CANTILEVER END OF PLANK BEYOND STEEL BEAM SUPPORTS TO WALL.



KEY PLAN

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MEZZANINE PLAN

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CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

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SHEET 73
90-AS1.05

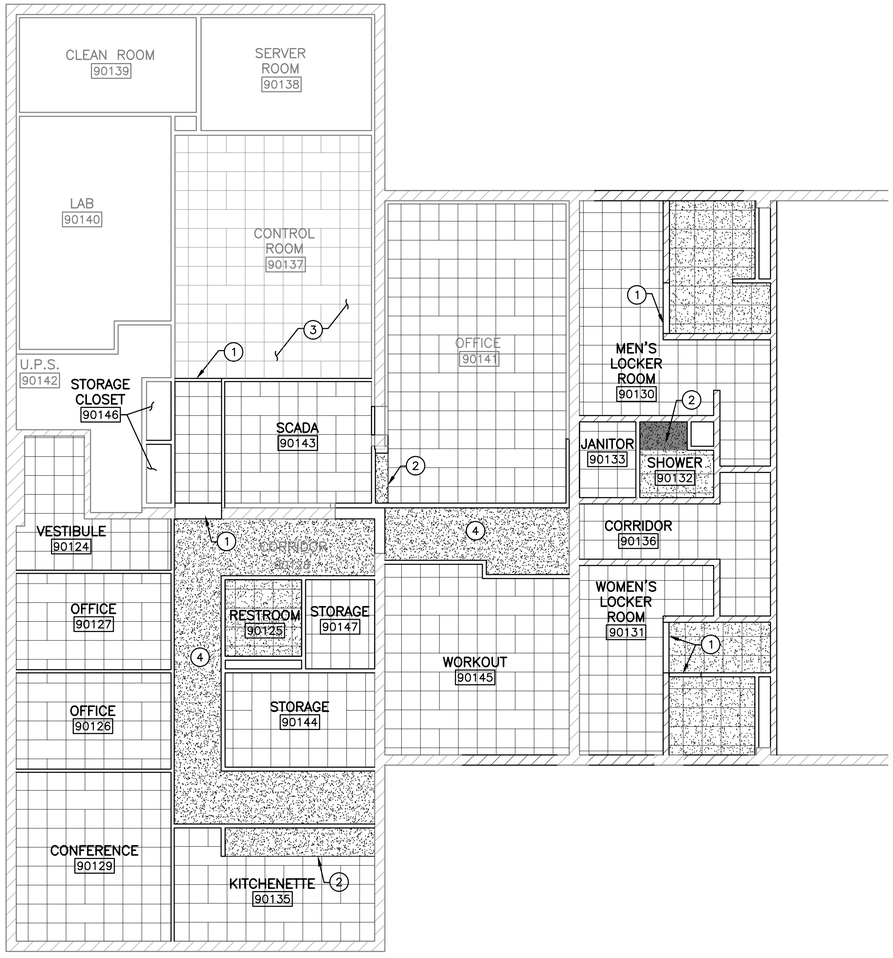
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CEILING TYPE LEGEND

- 2X2 ACOUSTIC CEILING TILE
- 2X2 MOISTURE RESISTANT ACOUSTIC CEILING TILE
- GYPSUM BOARD
- MOISTURE RESISTANT GYPSUM BOARD

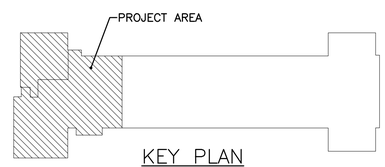
KEY NOTES:

1. HEAD AT 8'–0" ABOVE FINISHED FLOOR.
2. GYPSUM BOARD SOFFIT AT 8'–0" ABOVE FINISHED FLOOR.
3. REINSTALL EXISTING CEILING TILE AND GRID. PROVIDE NEW GRID AND TILE AS REQUIRED.
4. CORRIDOR 90128 CEILING ASSEMBLY SHALL BE CONSTRUCTED IN ACCORDANCE WITH USG ASSEMBLY EVALUATION REPORT (AER–09038) FOR 1–HR CORRIDOR ASSEMBLY CEILING.



REFLECTED CELING PLAN

0 2' 4' 8' 16'



KEY PLAN

NO.	REVISIONS	DATE:
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REFLECTED CEILING PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

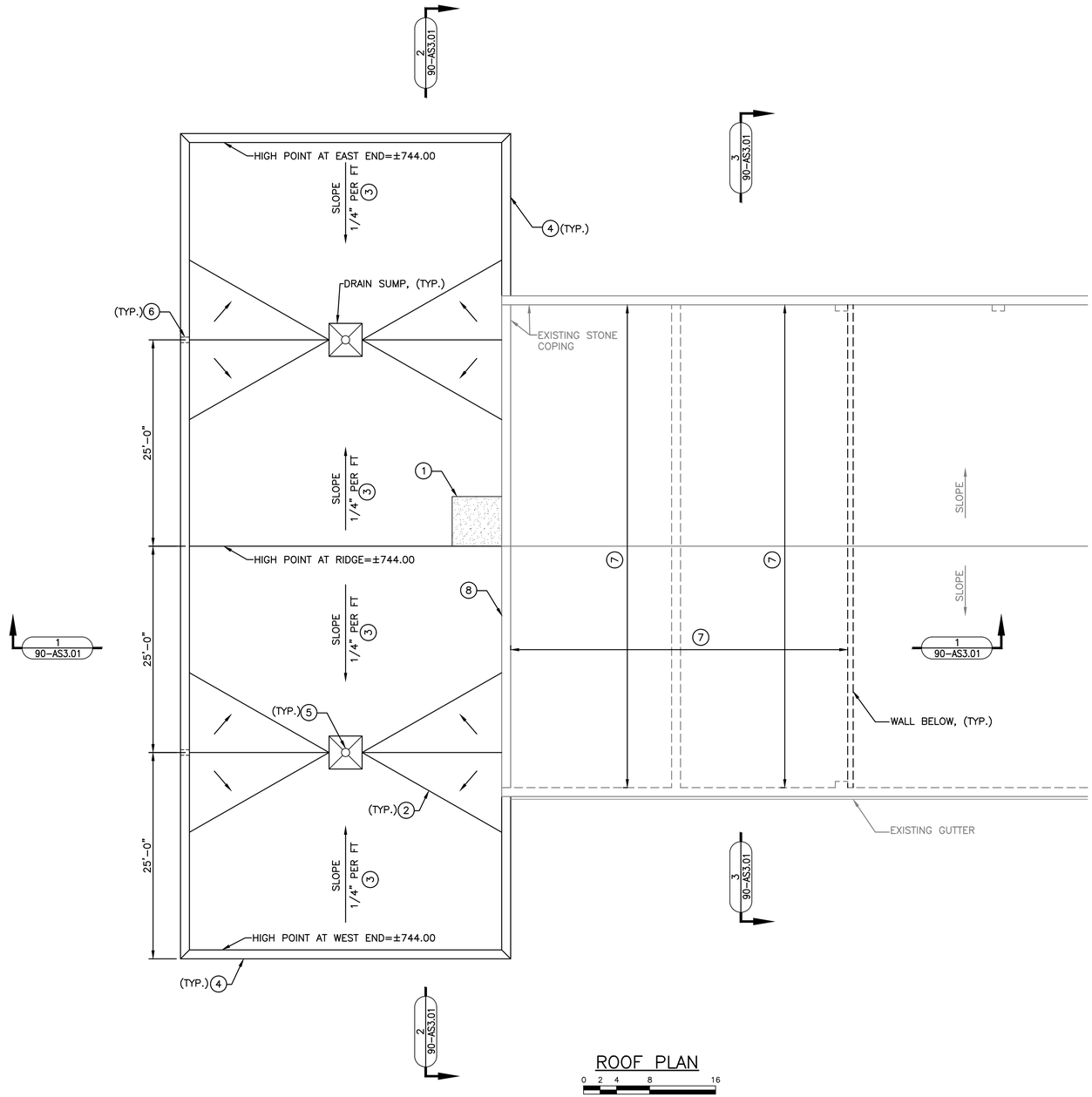
JOB NO.
1110.037

PROJECT MGR.
RYAN WOOD

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SHEET
74
90-AS1.06

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ROOF PLAN

0 2 4 8 16

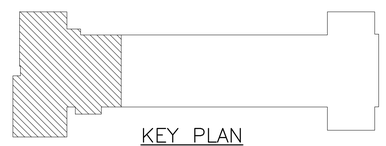
GENERAL NOTES:

1. SEE DRAWING 90–AS1.03 FOR GENERAL NOTES.
2. NOT ALL ROOF PENETRATIONS ARE SHOWN ON DRAWINGS. ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND INSTALLATION OF PENETRATIONS AS REQUIRED BY MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS.
3. TAPERED INSULATION SLOPES AND DIMENSIONS SHOWN ON DRAWINGS ARE PROVIDED FOR REFERENCE ONLY. FINAL SLOPES AND DIMENSIONS SHALL BE DETERMINED BY ROOFING CONTRACTOR AND APPROVED BY ENGINEER. UNLESS NOTED OTHERWISE, MINIMUM SLOPES FOR ROOF INSULATION SHALL BE AS FOLLOWS:

   PRIMARY SLOPES – 1/4" PER FOOT
   CRICKETS – 1/4" PER FOOT
   CRICKET VALLEY – .08" PER FOOT
   DRAIN SUMPS – 1/2" PER FOOT

KEY NOTES:

1. PROVIDE 6'–0" X 6'–0" AREA OF ROOFING WALKWAY PADS AT EXISTING ROOF ACCESS DOOR.
2. INSULATION CRICKET, (TYP.)
3. ADHERED MEMBRANE ROOFING SYSTEM OVER 1/4" PER FOOT TAPERED INSULATION. WEIGHTED R–VALUE = 30.0.
4. METAL COPING (A / 99–AS5.03).
5. ROOF DRAIN PER (A / 99–P5.02).
6. OVERFLOW SCUPPER, SET BOTTOM AT 1" ABOVE INSULATION HEIGHT, SEE DETAIL (B / 99–AS5.03).
7. RETROFIT BUILDING INSULATION LINER SYSTEM BETWEEN EXISTING PURLINS AT UNDERSIDE OF EXISTING ROOF.
8. ROOF FLASHING AT EXISTING WALL (C / 99–AS5.03).



KEY PLAN

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ROOF PLAN

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CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037
PROJECT MGR. RYAN WOOD

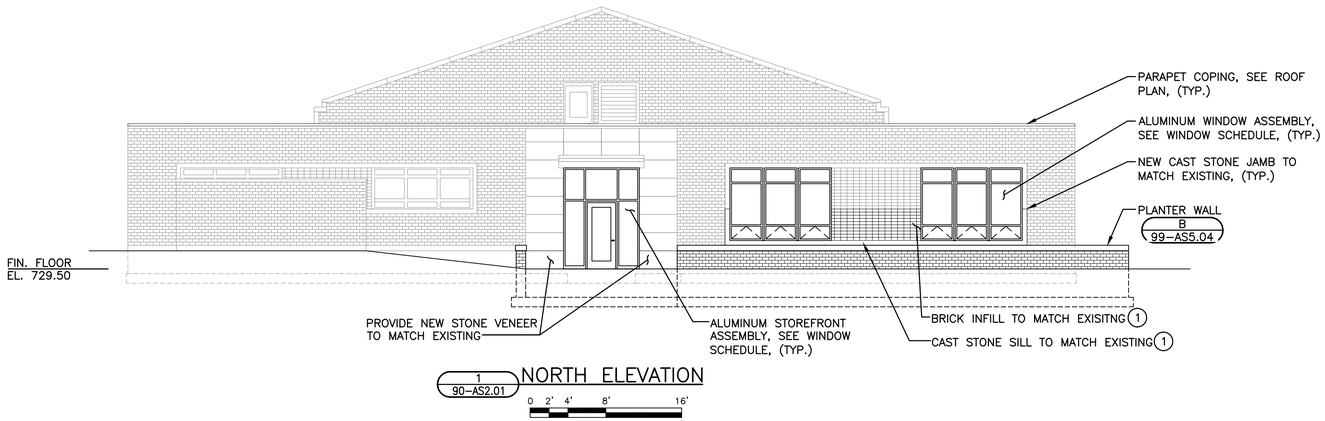
STRAND ASSOCIATES®

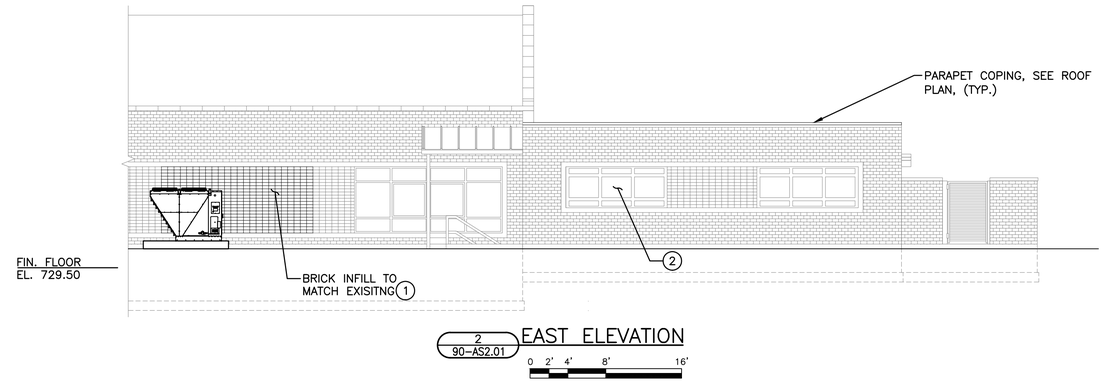
SHEET 75
90-AS1.07

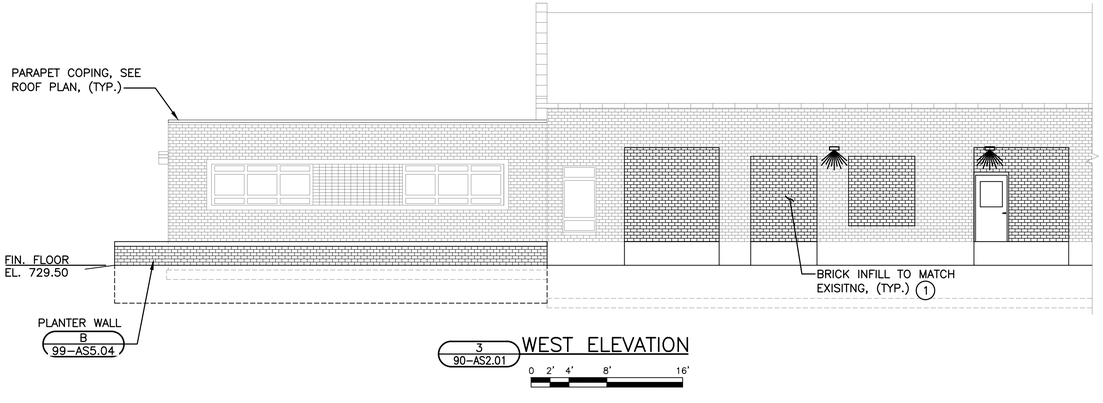
KEY NOTES:

(1) REUSE EXISTING CAST STONE AND BRICK MATERIALS WHERE POSSIBLE.

(2) PROVIDE NEW SPANDREL GLASS IN EXISTING WINDOW AS SPECIFIED.







NO.	REVISIONS	DATE:
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EXTERIOR ELEVATIONS

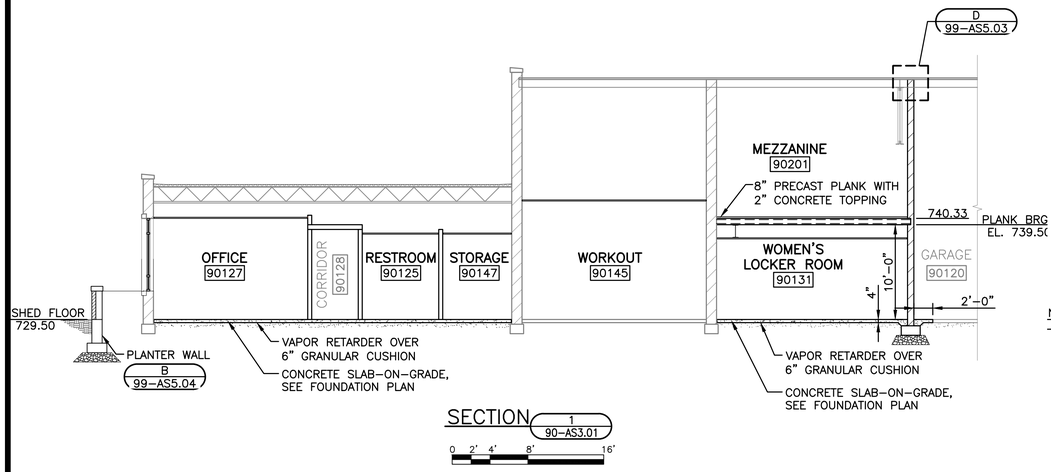
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

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PROJECT MGR. RYAN WOOD

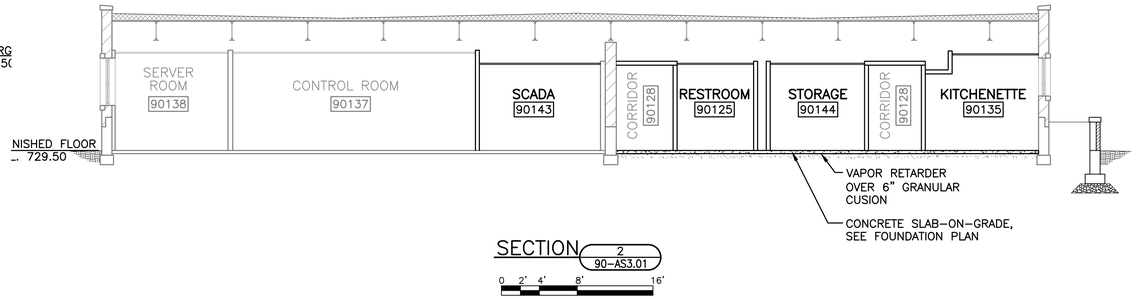
STRAND ASSOCIATES®

SHEET 76
90-AS2.01



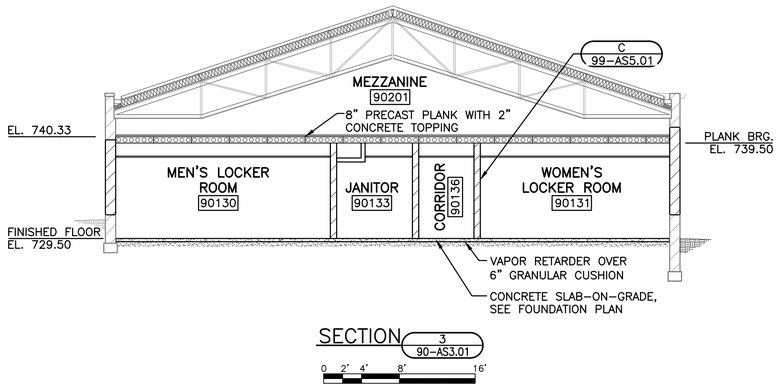
SECTION 1 / 90–AS3.01

0 2' 4' 8' 16'



SECTION 2 / 90–AS3.01

0 2' 4' 8' 16'



SECTION 3 / 90–AS3.01

0 2' 4' 8' 16'

NO.	REVISIONS	DATE:
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BUILDING SECTIONS

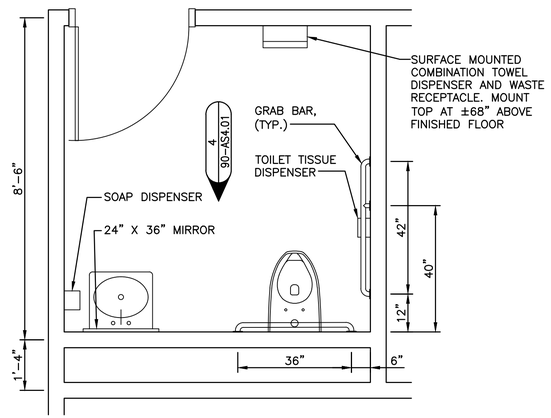
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

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1110.037

PROJECT MGR.
RYAN WOOD

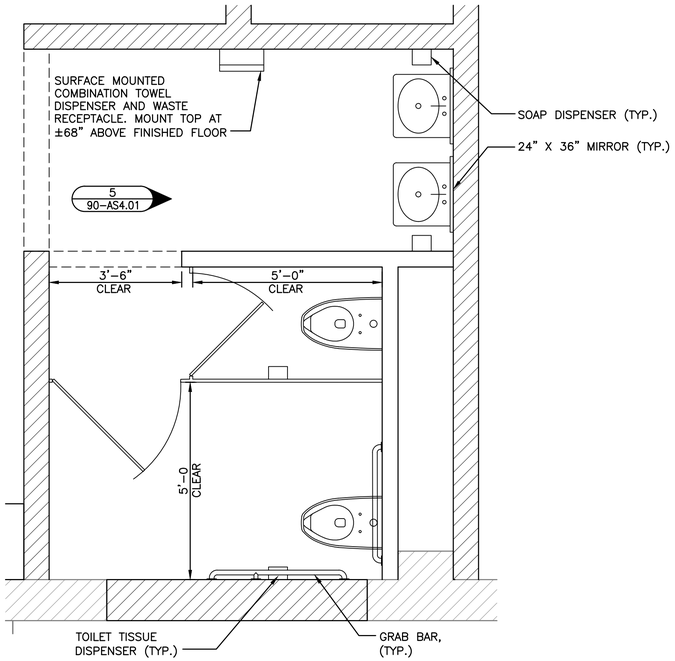
STRAND ASSOCIATES®

SHEET
77
90-AS3.01



1 / 90-AS4.01 RESTROOM 90125 PLAN

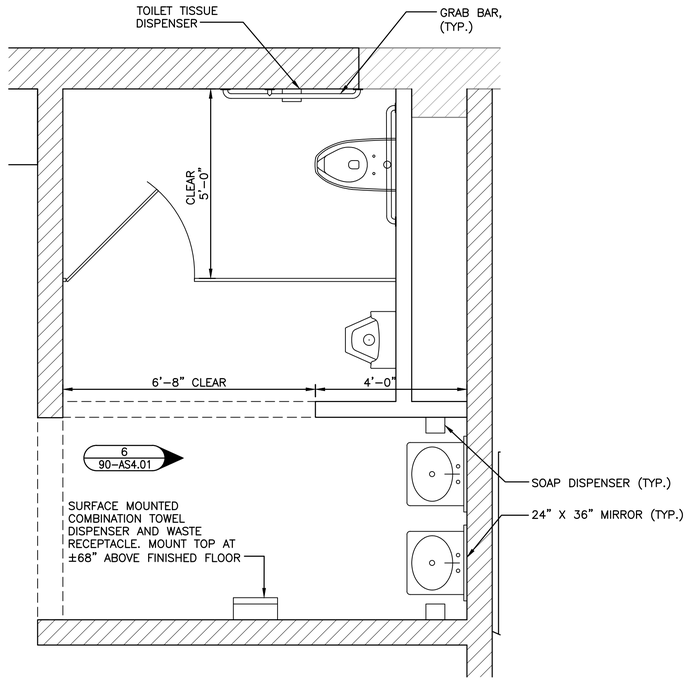
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NOTE: SEE RESTROOM 90125 PLAN FOR GRAB BAR DIMENSIONS

2 / 90-AS4.01 WOMEN'S LOCKER ROOM 90131 PLAN

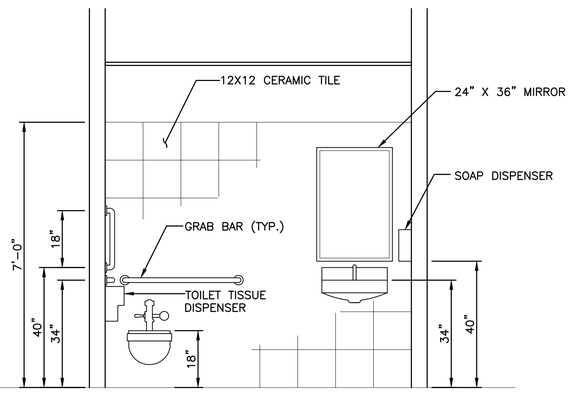
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NOTE: SEE RESTROOM 90125 PLAN FOR GRAB BAR DIMENSIONS

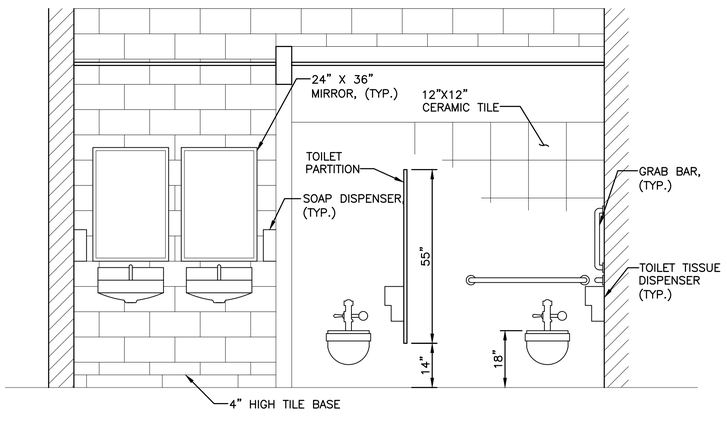
3 / 90-AS4.01 MEN'S LOCKER ROOM 90130 PLAN

0 1' 2' 4'



4 / 90-AS4.01 RESTROOM 90125 ELEVATION

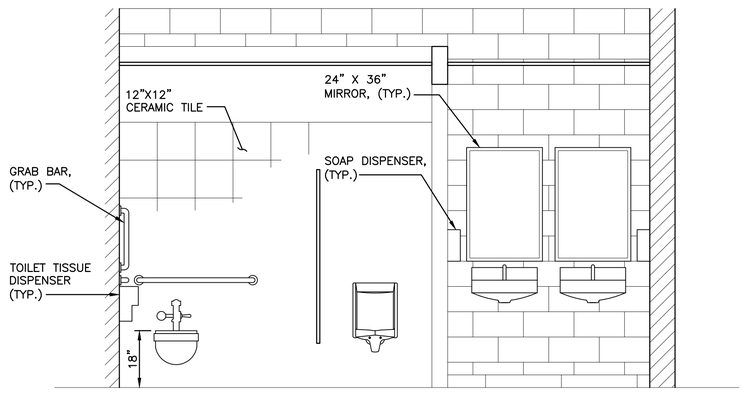
0 1' 2' 4'



NOTE: SEE RESTROOM 90125 ELEVATION FOR RESTROOM SPECIALTIES DIMENSIONS.

5 / 90-AS4.01 WOMEN'S LOCKER ROOM 90131 ELEVATION

0 1' 2' 4'



NOTE: SEE RESTROOM 90125 ELEVATION FOR RESTROOM SPECIALTIES DIMENSIONS.

6 / 90-AS4.01 MEN'S LOCKER ROOM 90130 ELEVATION

0 1' 2' 4'

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

ENLARGED PLANS AND ELEVATIONS - 1

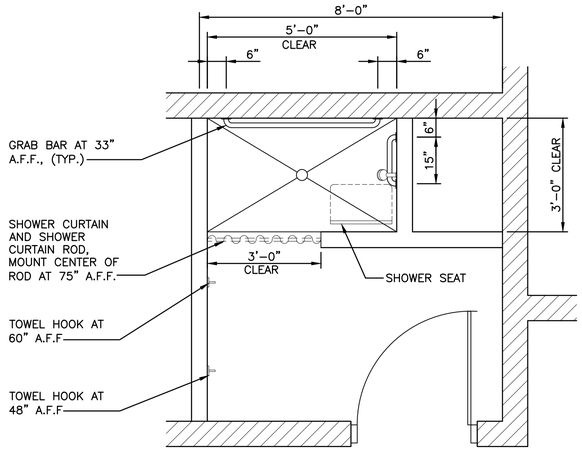
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

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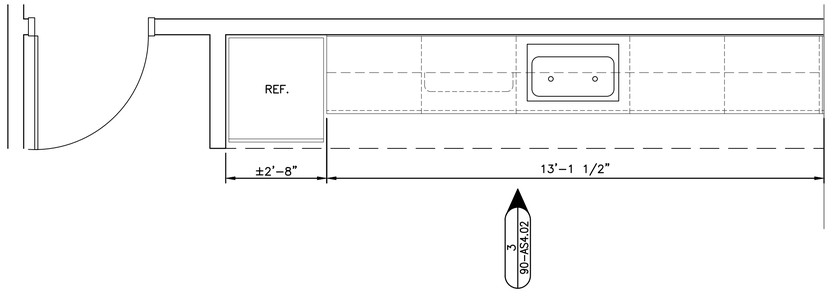
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SHEET 78
90-AS4.01



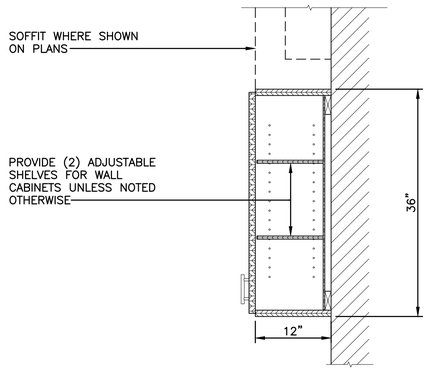
1 / 90-AS4.02 SHOWER 90132 PLAN

0 1' 2' 4'

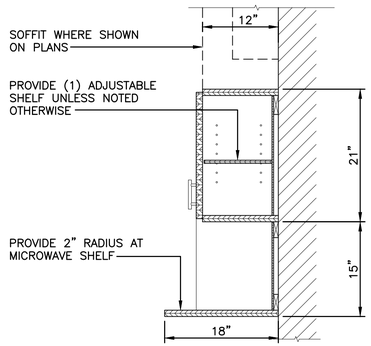


2 / 90-AS4.02 KITCHENETTE 90135 PLAN

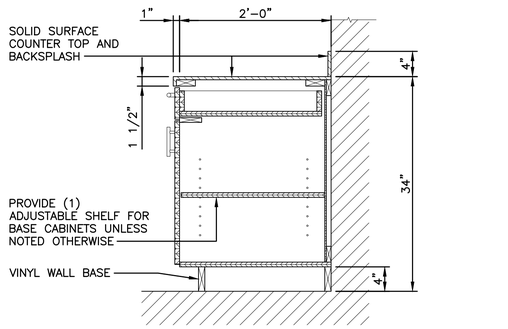
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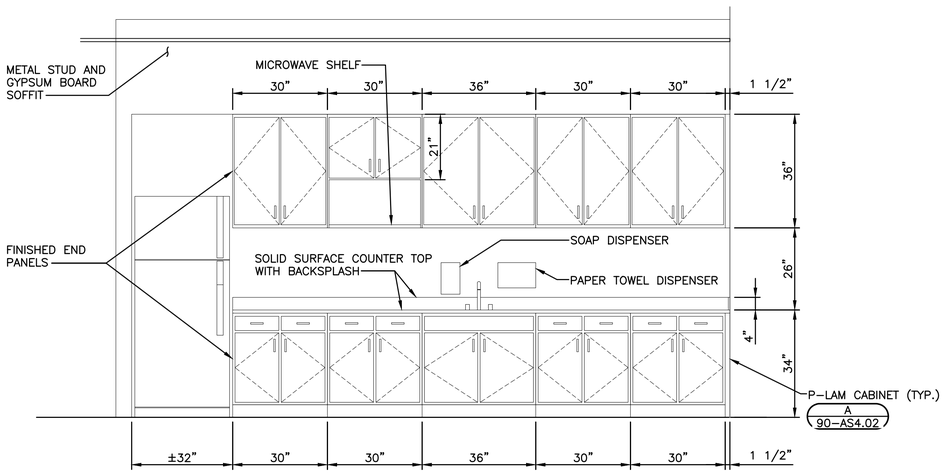
TYPICAL WALL CABINET



WALL CABINET AT MICROWAVE SHELF



TYPICAL BASE CABINET W/ SOLID SURFACE COUNTER



3 / 90-AS4.02 KITCHENETTE 90135 ELEVATION

0 1' 2' 4'

A / 90-AS4.02 P-LAM CABINET DETAILS

0 6" 1' 2'

NO.	REVISIONS	DATE:
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ENLARGED PLANS AND ELEVATIONS - 2

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

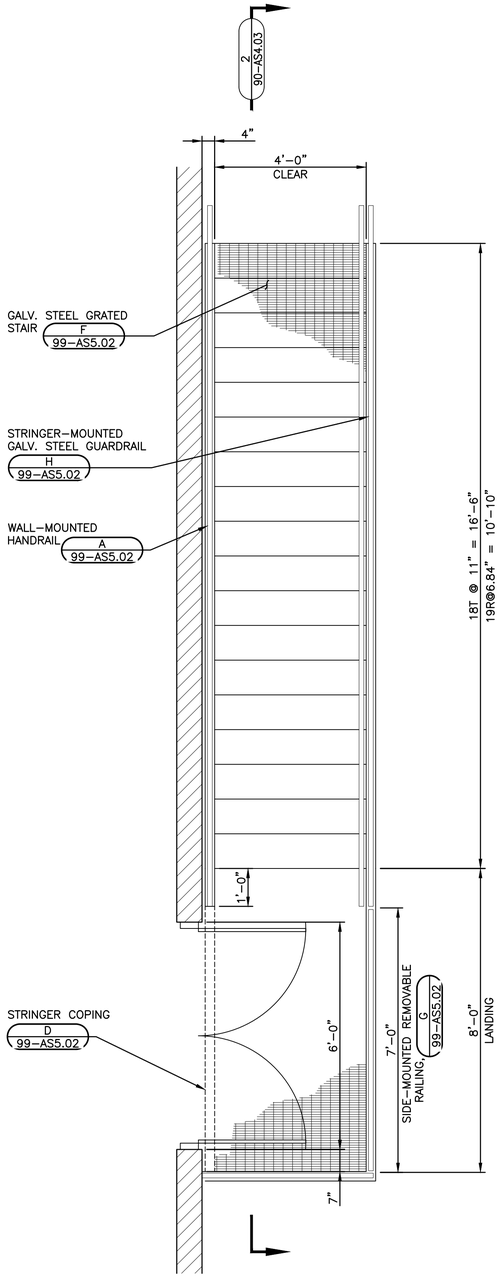
JOB NO.
1110.037

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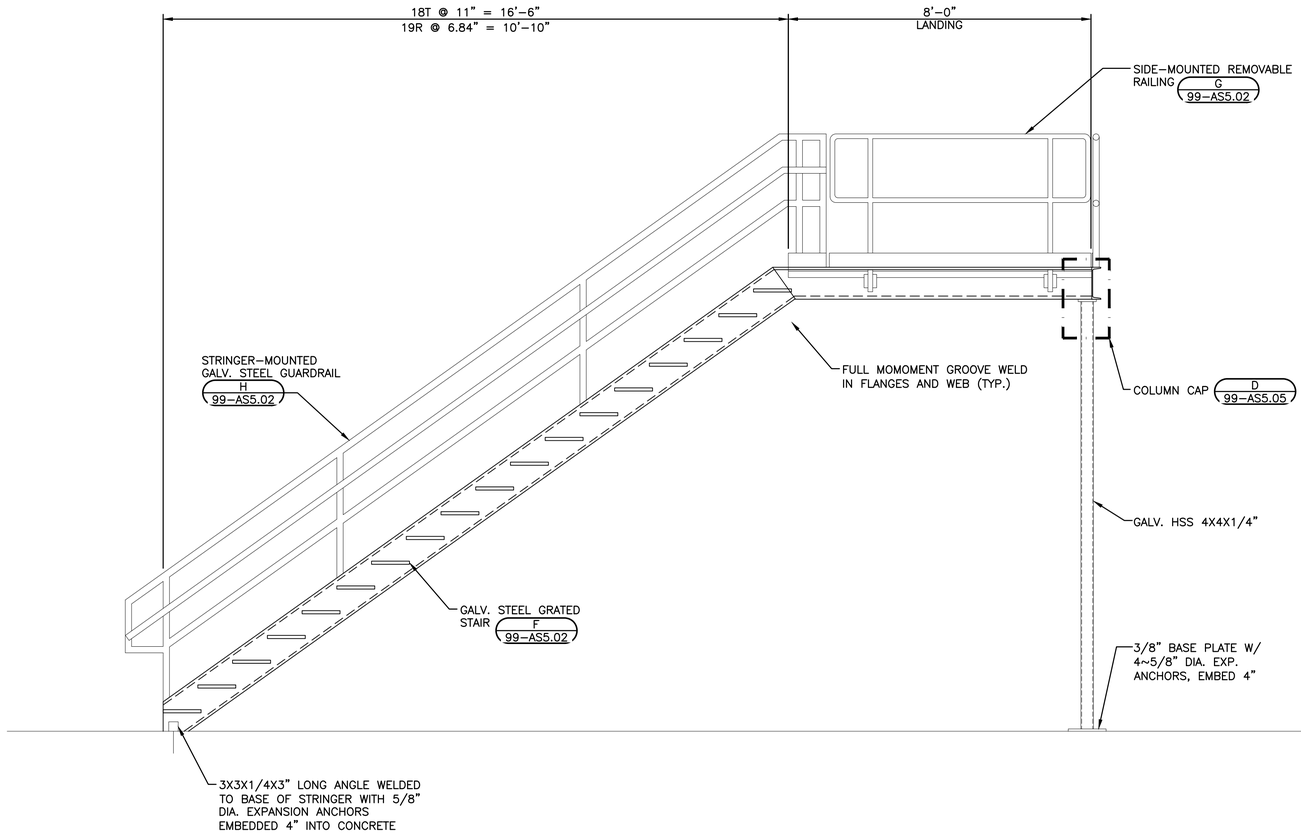
SHEET
79
90-AS4.02

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1 90-AS4.03 STAIR PLAN

0 1' 2' 4'



2 90-AS4.03 STAIR SECTION

0 1' 2' 4'

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

ENLARGED PLANS AND ELEVATIONS - 3

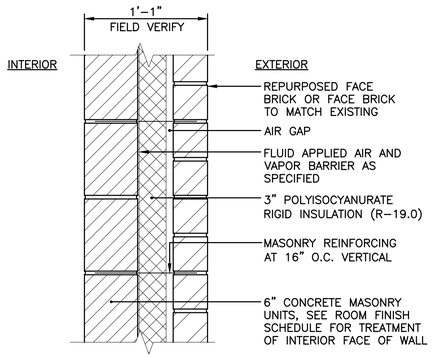
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO.
1110.037

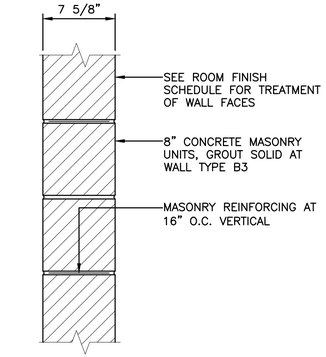
PROJECT MGR.
RYAN WOOD

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SHEET
80
90-AS4.03



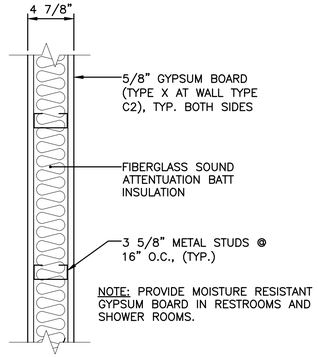
A AS SHOWN



B1 AS SHOWN

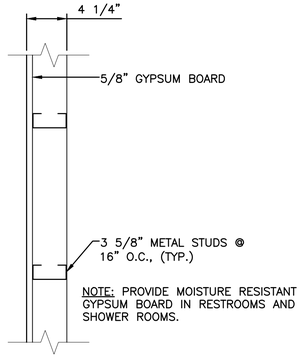
B2 AS SHOWN (1-HR FIRE PARTITION)

B3 AS SHOWN (3-HR FIRE BARRIER)



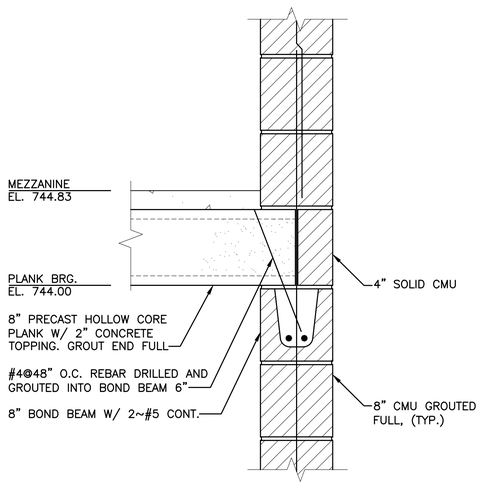
C1 AS SHOWN

C2 AS SHOWN (1-HR FIRE PARTITION - UL U419)

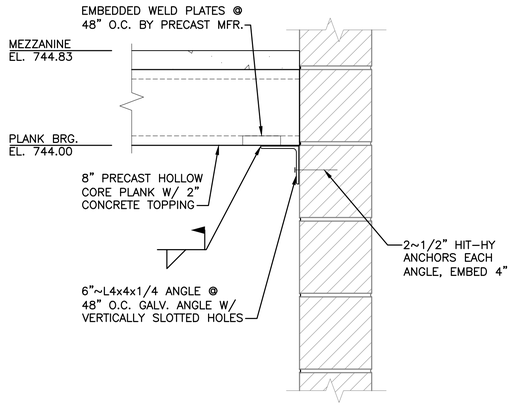


D AS SHOWN

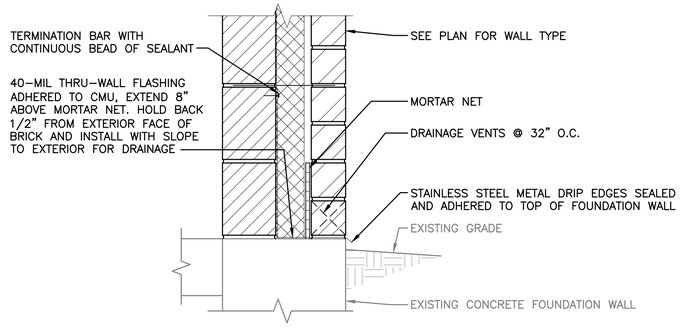
WALL TYPES
NO SCALE



A 90-AS5.01 PLANK BEARING
NO SCALE



B 90-AS5.01 PLANK AT EXISTING WALL
NO SCALE



C 90-AS5.01 BASE OF WALL INFILL
NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

WALL TYPES

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 81
90-AS5.01

GENERAL NOTES:

1. SEE DRAWING 80-P1.01 FOR GENERAL NOTES.

KEY NOTES:

(1) CONNECT NEW SUPPLY PIPING TO EXISTING SUPPLY PIPING.

(2) INSTALL WALL BOX FOR FUTURE REFRIGERATOR CONNECTION.

(3) ROUTE PLUMBING EQUIPMENT CONDENSATE TO HUB DRAIN.

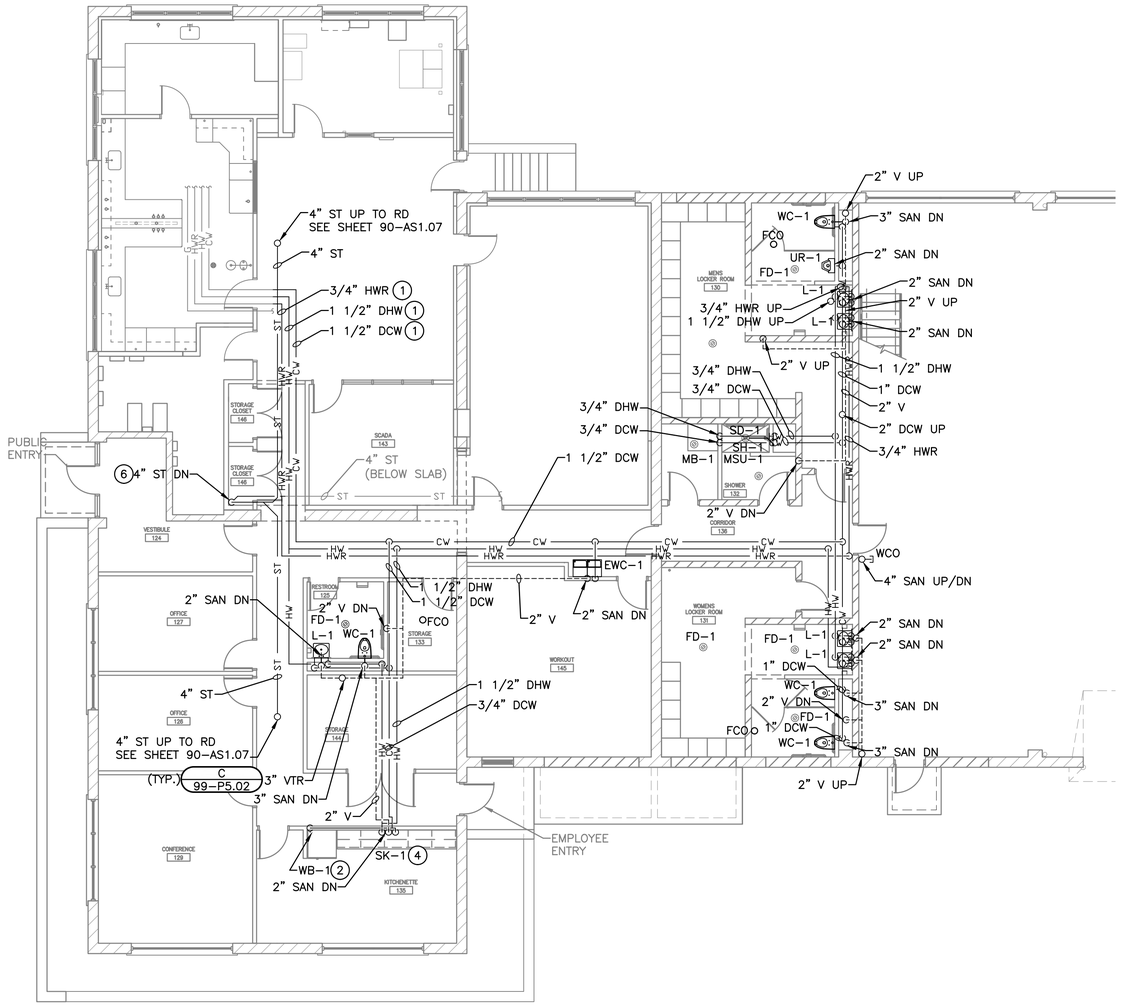
(4) PROVIDE GARBAGE DISPOSAL UNDER SINK.

(5) RECONNECT TO EXISTING 2" DCW PIPING.

(6) RECONNECT TO EXISTING 4" ST PIPING.

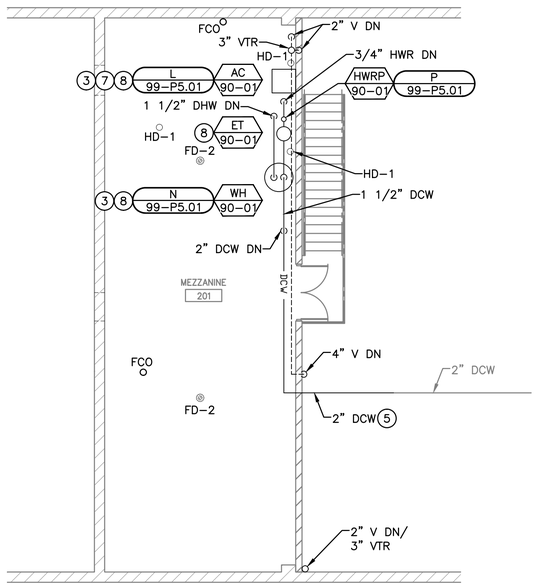
(7) INSTALL AIR COMPRESSOR AND RECONNECT TO EXISTING COMPRESSED AIR PIPING.

(8) INSTALL EQUIPMENT ON CONCRETE PAD. COORDINATE PAD INSTALLATION WITH GENERAL CONTRACTOR.



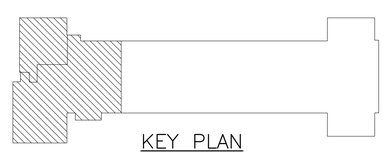
ABOVE FLOOR PLAN

0 2' 4' 8' 16'



ABOVE MEZZANINE PLAN

0 2' 4' 8' 16'



KEY PLAN

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

ABOVEGROUND PLUMBING PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 82 90-P1.01

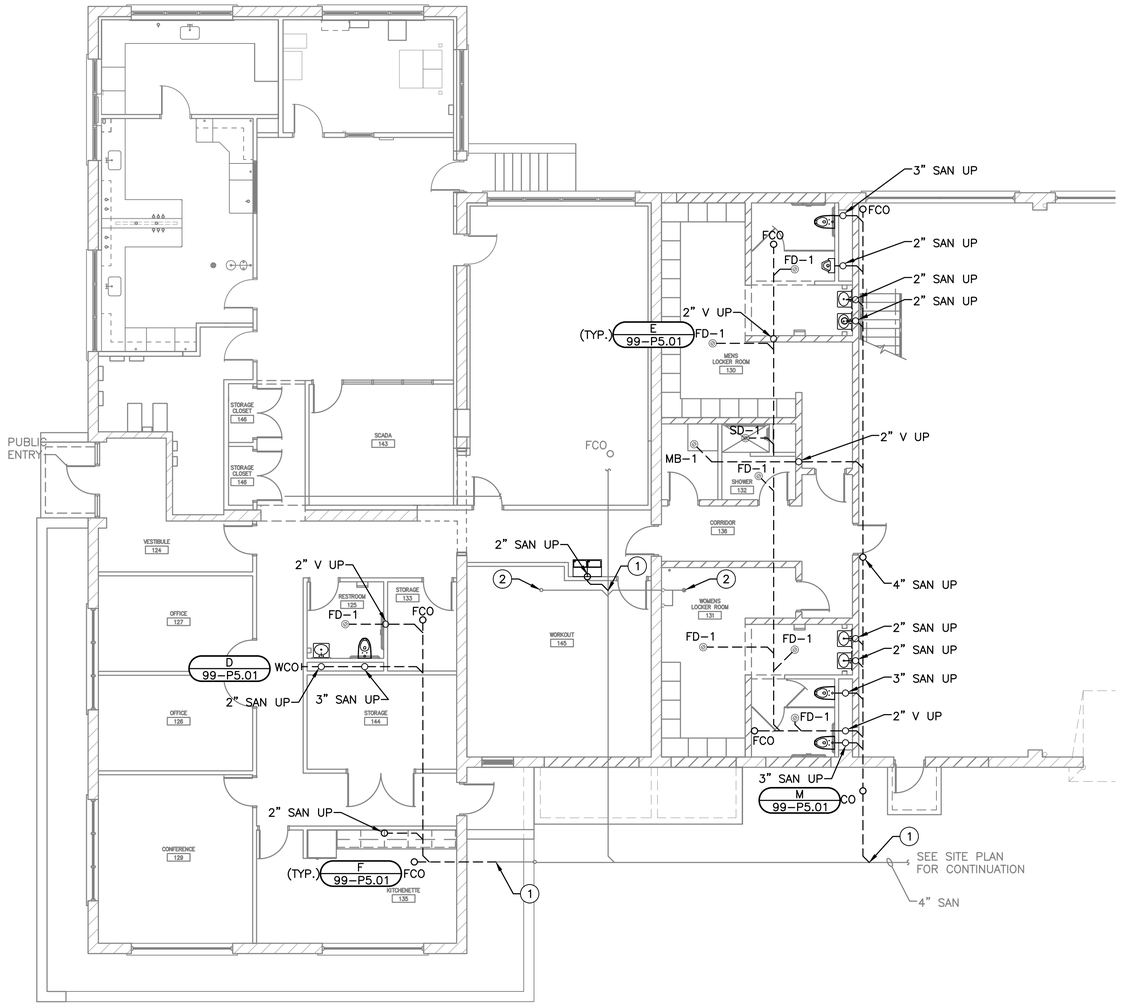
GENERAL NOTES:

1. SEE DRAWING 80-P1.01 FOR GENERAL NOTES.

KEY NOTES:

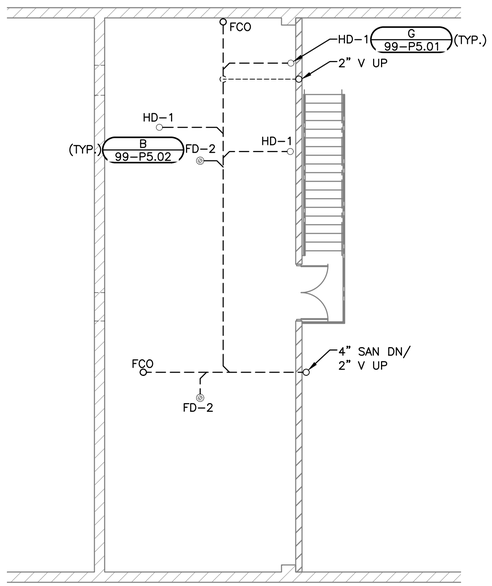
(1) CONNECT NEW SAN PIPING TO EXISTING SAN PIPING. CONTRACTOR TO VERIFY LOCATION, INVERT ELEVATION, SIZE AND MATERIAL OF EXISTING SAN PIPING.

(2) CONTRACTOR TO PLUG AND ABANDON EXISTING SANITARY PIPING.



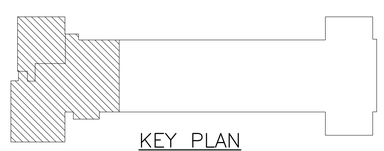
UNDERGROUND FLOOR PLAN

0 2' 4' 8' 16'



BELOW MEZZANINE PLAN

0 2' 4' 8' 16'



KEY PLAN

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

UNDERGROUND PLUMBING PLAN

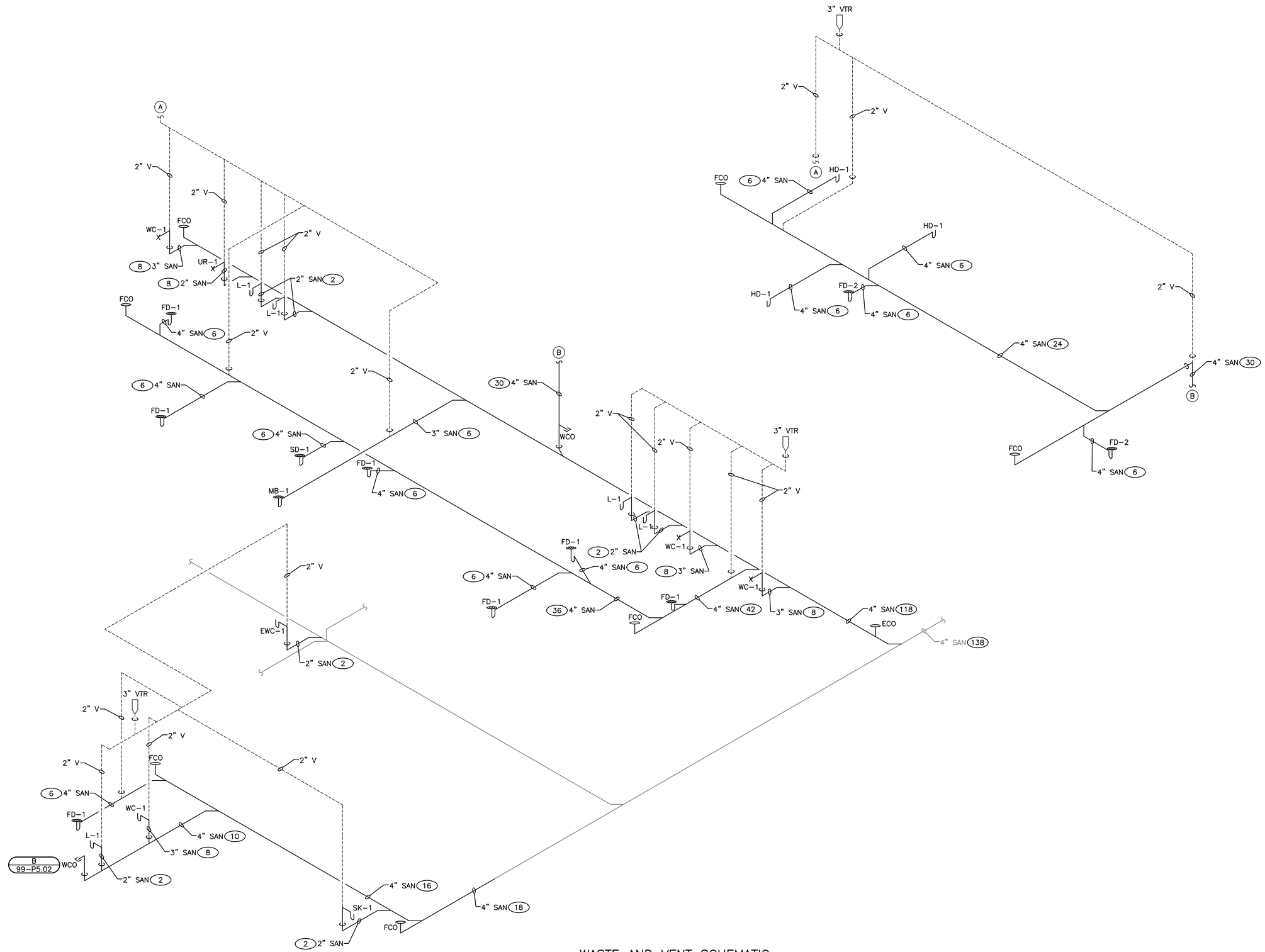
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 83
90-P1.02



WASTE AND VENT SCHEMATIC
NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

WASTE AND VENT SCHEMATIC

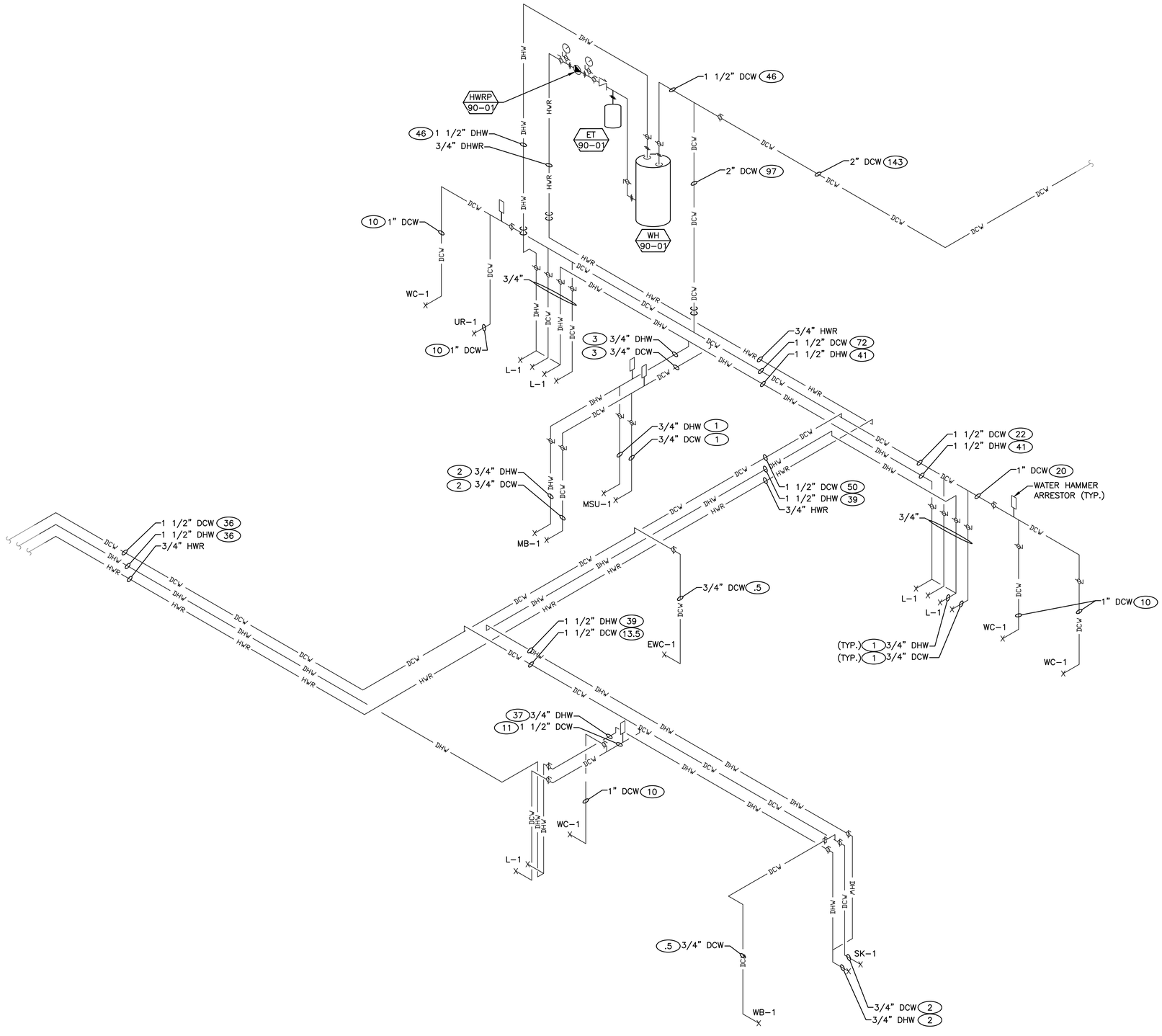
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO.
1110.037

PROJECT MGR.
RYAN WOOD

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SHEET
84
90-P7.01



WATER SUPPLY SCHEMATIC
NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

WATER SUPPLY SCHEMATIC

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 85
90-P7.02

GENERAL NOTES:

1. SEE DRAWING 80–H1.01 FOR GENERAL NOTES.

KEY NOTES:

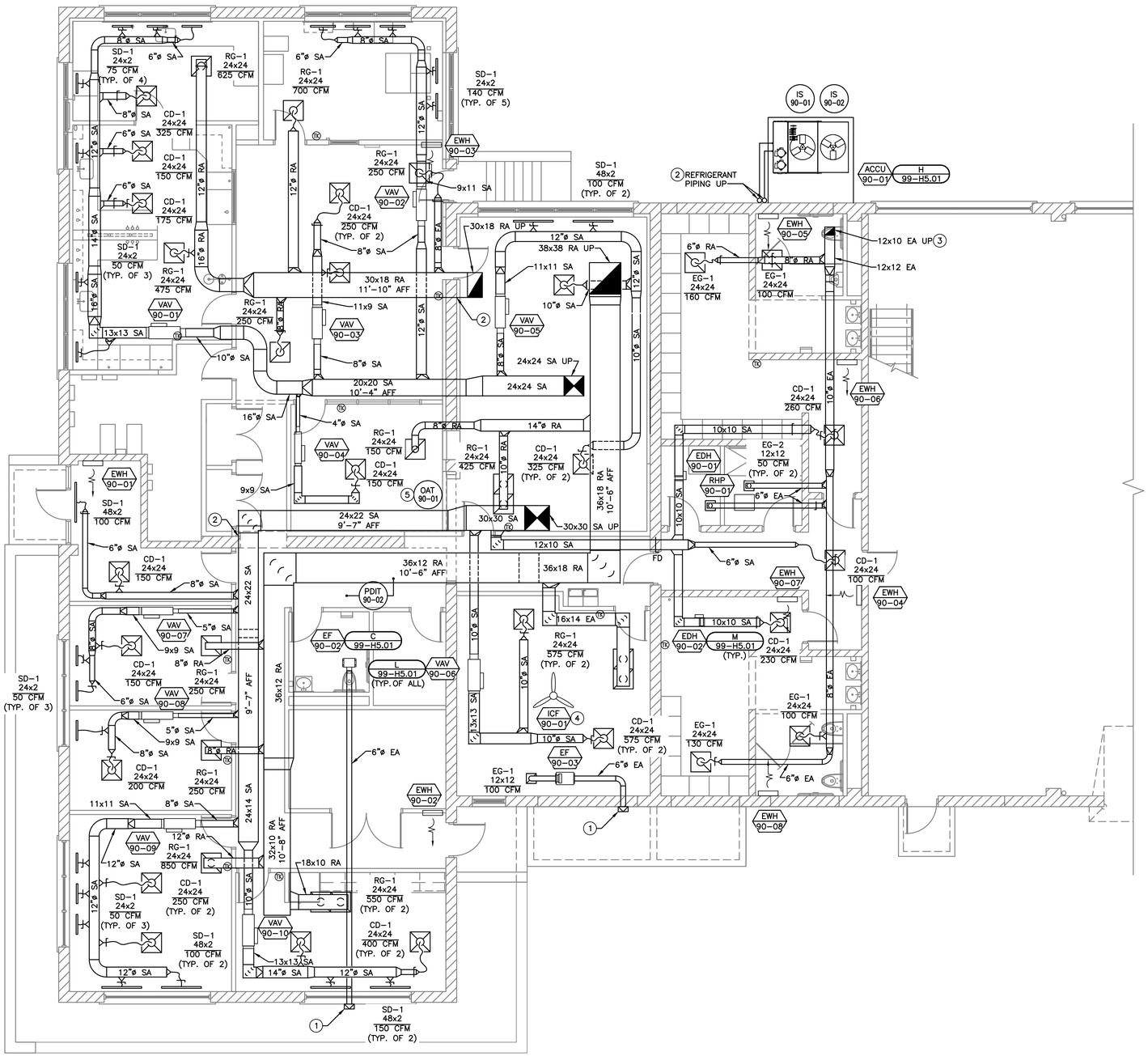
(1) ROUTE 6" EA DUCTWORK FROM EF TO EXTERIOR WALL. TERMINATE WITH 6" WALL CAP.

(2) REFRIGERANT SUCTION AND LIQUID LINES TWO LINES PER SYSTEM.

(3) ROUTE DUCTWORK UP THROUGH FIRE RATED SLAB PER DETAIL E / 99–H5.01.

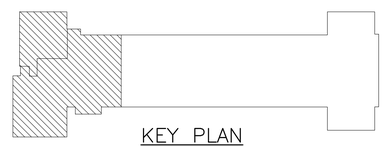
(4) ICF SHALL BE MOUNTED SO THAT BOTTOM OF FAN IS 14' AFF.

(5) DEVICE SHALL BE LOCATED ON EXTERIOR SIDE OF NORTHERN EXTERIOR WALL ABOVE MAN DOOR.



FLOOR PLAN

0 1' 2' 4' 8'



KEY PLAN

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

GROUND FLOOR HVAC PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO.
1110.037

PROJECT MGR.
RYAN WOOD

STRAND ASSOCIATES®

SHEET
86
90-H1.01

File: S:\MAD\1100--1199\1110\037\Drawings\CAD\AutoCAD\90-H1.01.dwg Time: Jul 18, 2025 - 11:14am

GENERAL NOTES:

1. SEE DRAWING 80–H1.01 FOR GENERAL NOTES.

KEY NOTES:

(1) CONTRACTOR TO CUT OPENING IN EXISTING WALL AND ROUTE DUCTWORK THROUGH FIRE RATED WALL. FIRE DAMPER SHALL BE INSTALLED IN OPENING.

(2) ROUTE DUCTWORK UP THROUGH FLOOR AND INSTALL EF IN THE VERTICAL. ROUTE DUCTWORK FROM EF THROUGH ROOF. DAMPER SHALL BE INSTALLED BETWEEN EF AND ROOF.

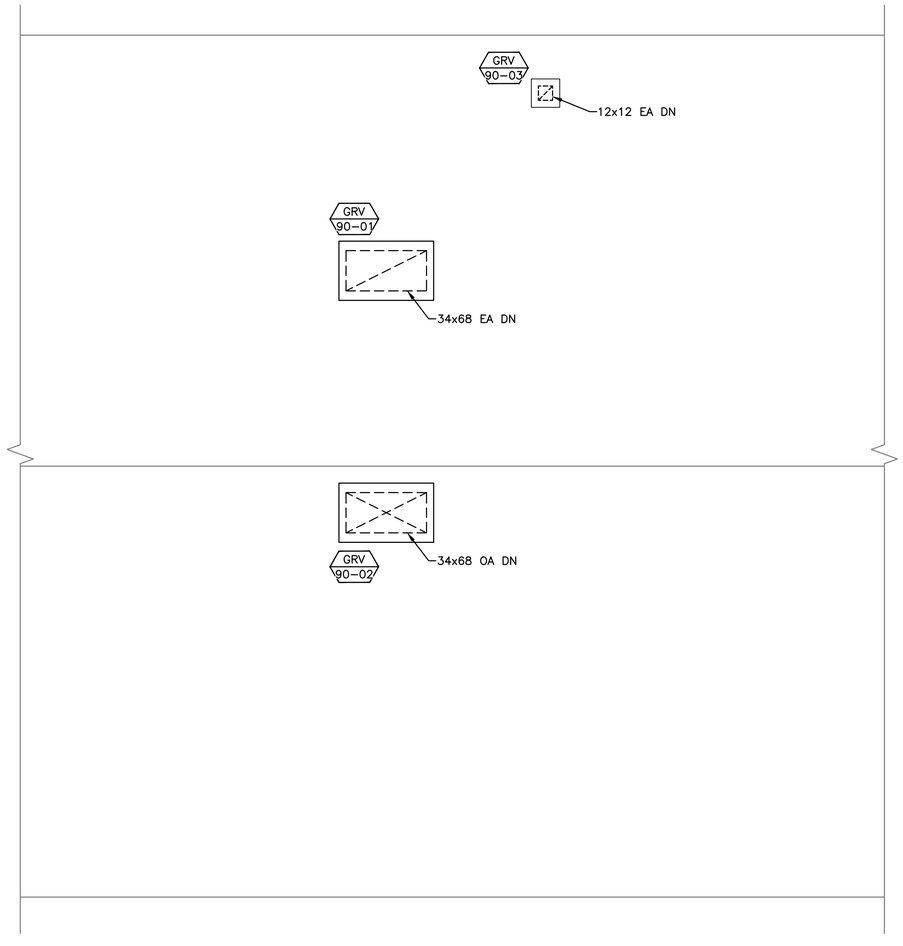
(3) TRANSITION FORM FROM AHU EA CONNECTION TO 34X68 DUCTWORK. INSTALL DAMPER IN 34X68 DUCTWORK AND ROUTE DUCTWORK THROUGH ROOF

(4) TRANSITION FORM FROM AHU OA CONNECTION TO 14X14 DUCTWORK AND ROUTE DUCTWORK UP TO CEILING AND ELBOW WEST. ROUTE DUCTWORK WEST, THEN ELBOW UP AND ROUTE DUCTWORK THROUGH ROOF. INSTALL DAMPER IN VERTICAL 34X68 DUCTWORK.

(5) CONNECT 30X18 RA DUCTWORK TO 38X38 RA DUCTWORK PRIOR TO 38X38 ELBOW.

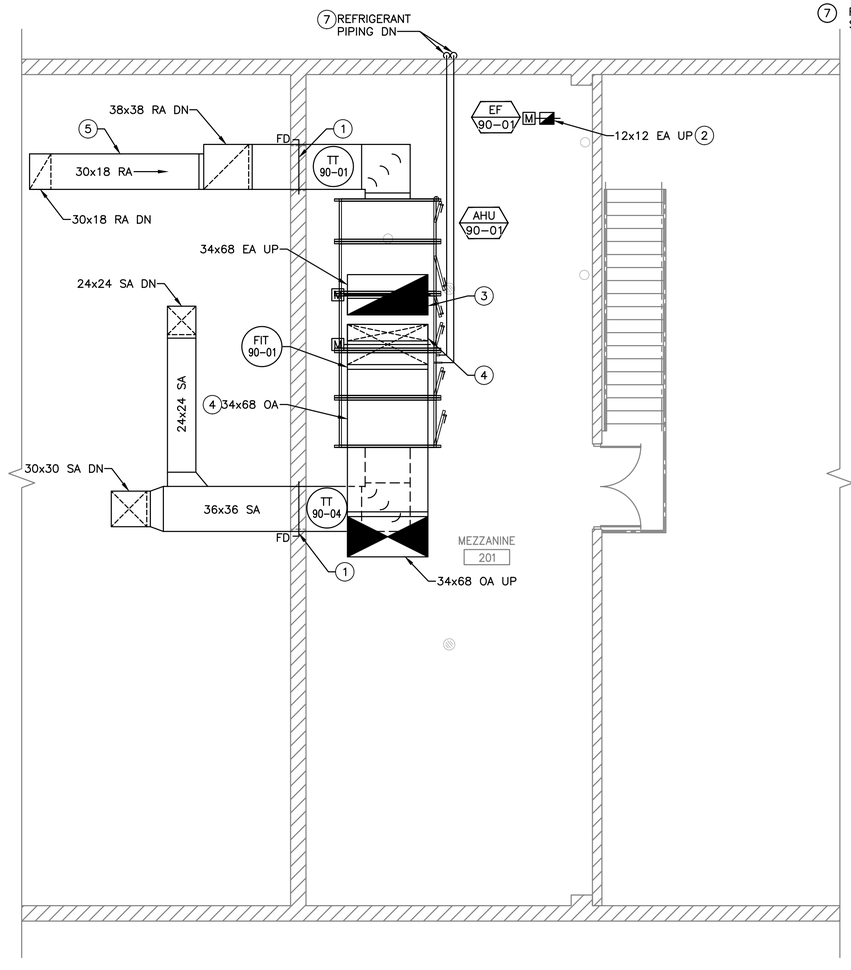
(6) A SHALL BE TERMINATED 3'–0" ABOVE ROOF. PROVIDE GOOSE NECK AND SCREEN AT TERMINATION.

(7) REFRIGERANT SUCTION AND LIQUID LINES TWO LINES PER SYSTEM.



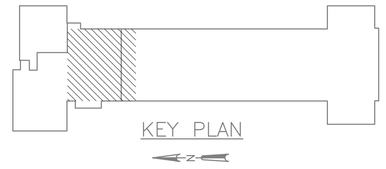
ROOF PLAN

0 1' 2' 4' 8'



MEZZANINE PLAN

0 1' 2' 4' 8'



KEY PLAN

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

MEZZANINE AND ROOF HVAC PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

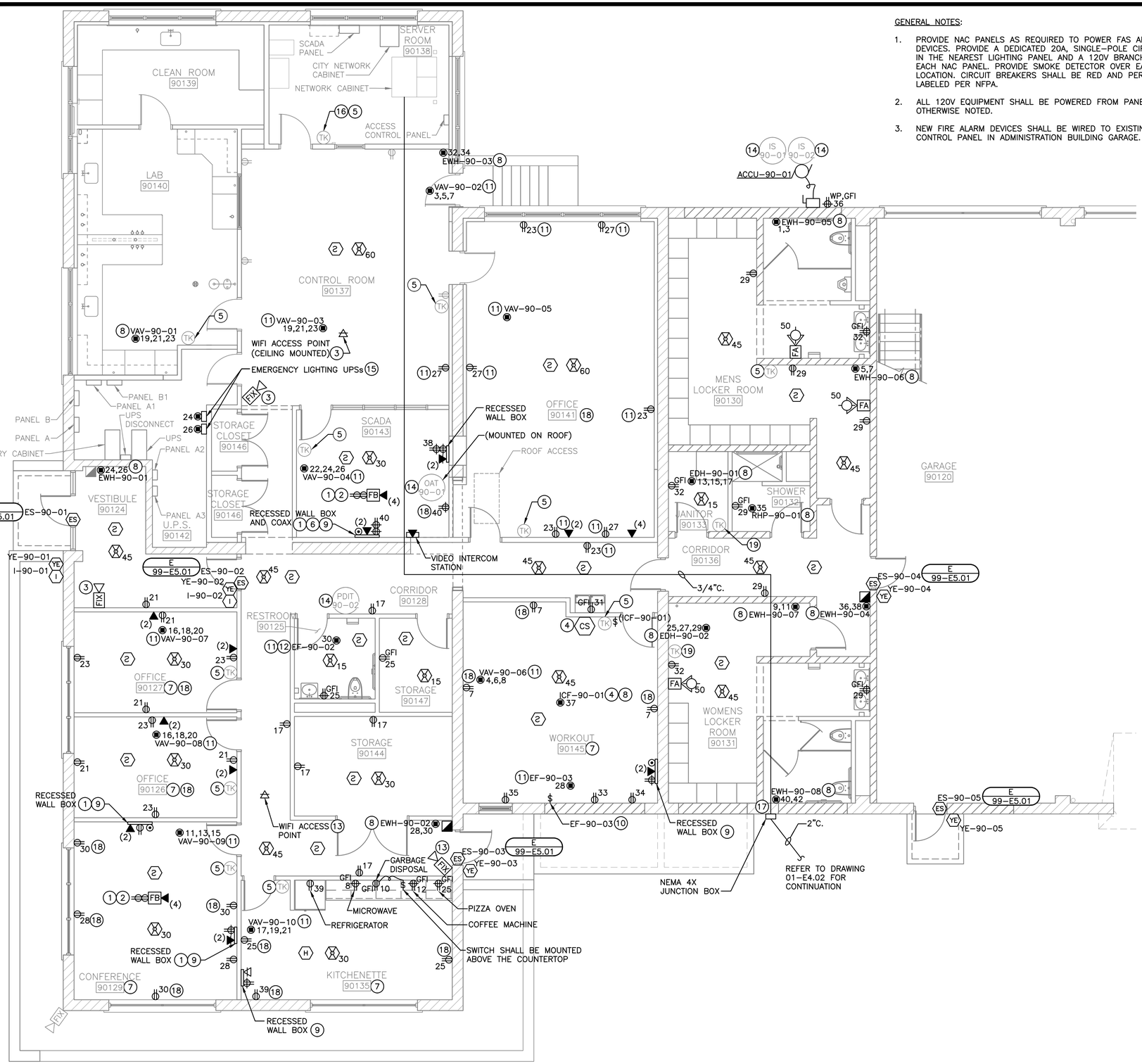
JOB NO.
1110.037

PROJECT MGR.
RYAN WOOD

STRAND ASSOCIATES®

SHEET
87
90-H1.02

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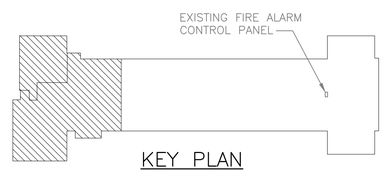


GENERAL NOTES:

1. PROVIDE NAC PANELS AS REQUIRED TO POWER FAS ANNUNCIATION DEVICES. PROVIDE A DEDICATED 20A, SINGLE-POLE CIRCUIT BREAKER IN THE NEAREST LIGHTING PANEL AND A 120V BRANCH CIRCUIT TO EACH NAC PANEL. PROVIDE SMOKE DETECTOR OVER EACH NAC PANEL LOCATION. CIRCUIT BREAKERS SHALL BE RED AND PERMANENTLY LABELED PER NFPA.
2. ALL 120V EQUIPMENT SHALL BE POWERED FROM PANEL A, UNLESS OTHERWISE NOTED.
3. NEW FIRE ALARM DEVICES SHALL BE WIRED TO EXISTING FIRE ALARM CONTROL PANEL IN ADMINISTRATION BUILDING GARAGE.

KEY NOTES:

1. PROVIDE A 1" SPARE CONDUIT FROM EACH FLOOR BOX TO EACH RECESSED WALL BOX.
2. PROVIDE 2~1" SPARE CONDUITS FROM EACH FLOOR BOX TO ABOVE THE SUSPENDED CEILING.
3. REINSTALL SALVAGED DEVICE. COORDINATE FINAL LOCATION FOR NETWORK DEVICES WITH OWNER.
4. WALL MOUNTED CEILING FAN CONTROLLER FURNISHED BY DIVISION 23 AND INSTALLED AND WIRED BY DIVISION 26. PROVIDE CAT 6 CABLE IN 3/4" CONDUIT FROM CONTROLLER TO FAN.
5. DEVICE PROVIDED BY DIVISION 23 AND WIRED BY DIVISION 26. PROVIDE OUTLET BOX AS NEEDED AND 3/4" CONDUIT FROM BOX TO VAV BOX.
6. PROVIDE NEW COAX SPLITTER BOX ABOVE SUSPENDED CEILING. REFER TO COAX RISER DIAGRAM FOR ADDITIONAL INFORMATION.
7. ALL DEVICES ON EXISTING WALL SHALL BE INSTALLED WITHIN SURFACE RACEWAY FROM THE DEVICE TO ABOVE THE SUSPENDED CEILING. C 99-E5.01
8. EQUIPMENT SHALL BE POWERED FROM PANEL B.
9. MOUNT RECESSED WALL BOX 60" AFF.
10. PROVIDE EQUIPMENT LABEL ON SWITCH.
11. EQUIPMENT SHALL BE POWERED FROM PANEL B1.
12. FAN SHALL BE CONTROLLED BY OCCUPANCY SENSOR AS SHOWN ON DRAWING 90-E1.02.
13. DEVICE SHALL BE FURNISHED BY OWNER AND INSTALLED BY CONTACTOR.
14. DEVICE SHALL BE PROVIDED BY DIVISION 23 AND WIRED BY DIVISION 26. REFER TO TCP-90-01 CONDUIT AND WIRING SCHEDULE FOR REQUIRED CONDUIT AND WIRING.
15. UPSs SHALL BE POWERED FROM PANEL A1.
16. REUSE EXISTING CONDUIT BOX AND CONDUIT FOR THERMOSTAT FURNISHED AND INSTALLED BY DIVISION 23 AND WIRED BY DIVISION 26.
17. CONDUIT SHALL BE INSTALLED ON WALL TO AREA ABOVE SUSPENDED CEILING.
18. RECEPTACLES SHALL BE HALF-HOT AND HALF-INTERLOCKED WITH THE OCCUPANCY SENSOR IN THE ASSOCIATED ROOM SUCH THAT THE TOP HALF OF THE RECEPTACLE IS ENERGIZED WHEN THE ROOM IS OCCUPIED AND DE-ENERGIZED WHEN THE ROOM IS UNOCCUPIED.
19. DEVICE SHALL BE PROVIDED BY DIVISION 23 AND WIRED BY DIVISION 26. PROVIDE OUTLET BOX AS NEEDED AND 3/4" CONDUIT FROM BOX TO HEATER.



KEY PLAN

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

ELECTRICAL POWER AND SYSTEMS PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037
PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 88
90-E1.01

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GENERAL NOTES:

1. ALL FIXTURES SHALL BE POWERED FROM PANEL A1, UNLESS NOTED OTHERWISE.

KEY NOTES:

(1) FIXTURES IN THIS ROOM SHALL BE POWERED FROM THE SAME CIRCUIT AS THE FIXTURES BEING REPLACED. PROVIDE CONDUIT AND WIRING AS REQUIRED.

(2) REINSTALL SALVAGED FIXTURES. PENDANT MOUNT FIXTURES TO MATCH EXISTING.

(3) EMERGENCY LIGHTING UPSs SHALL BE SURFACE MOUNTED ON THE WALL. ASSOCIATED FIXTURES SHALL BE WIRED IN SERIES THROUGH THE UPS FROM THE LOAD SIDE OF THE CONTROL DEVICE. EMERGENCY CIRCUITS SHALL BE INSTALLED WITHIN A DEDICATED CONDUIT AND BOXES. PROVIDE SEPARATE REFERENCE VOLTAGE CIRCUIT TO POWER THE UPS FROM THE LINE SIDE OF THE CONTROL DEVICE. CIRCUITS SHALL BE POWERED FROM PANEL A1, UNLESS NOTED OTHERWISE.

(4) 2-POLE SWITCH. ONE POLE SHALL CONTROL LIGHTING AND ANOTHER POLE SHALL CONTROL FAN.

(5) FIXTURE SHALL BE MOUNTED 10'-0" AFF.

(6) FIXTURE SHALL BE SURFACE MOUNTED UNDER CABINETS AND SWITCHED AS NOTED.

(7) FIXTURE SHALL BE POWERED THROUGH THE EMERGENCY LIGHTING UPS IN UPS ROOM 90142.

LIGHTING PLAN

0 1' 2' 4' 8'

KEY PLAN

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

ELECTRICAL LIGHTING PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO.
1110.037

PROJECT MGR.
RYAN WOOD

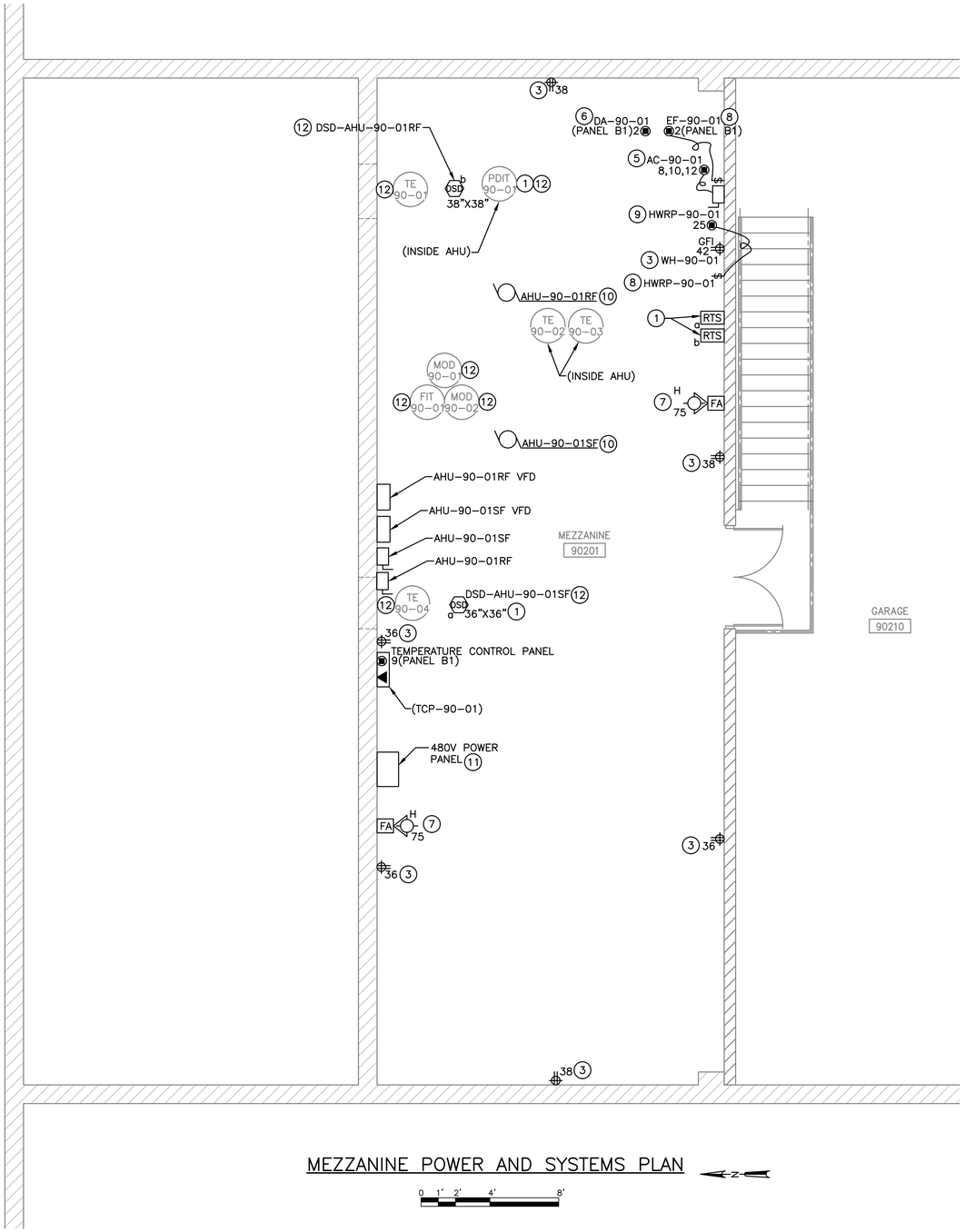
STRAND ASSOCIATES®

SHEET
89
90-E1.02

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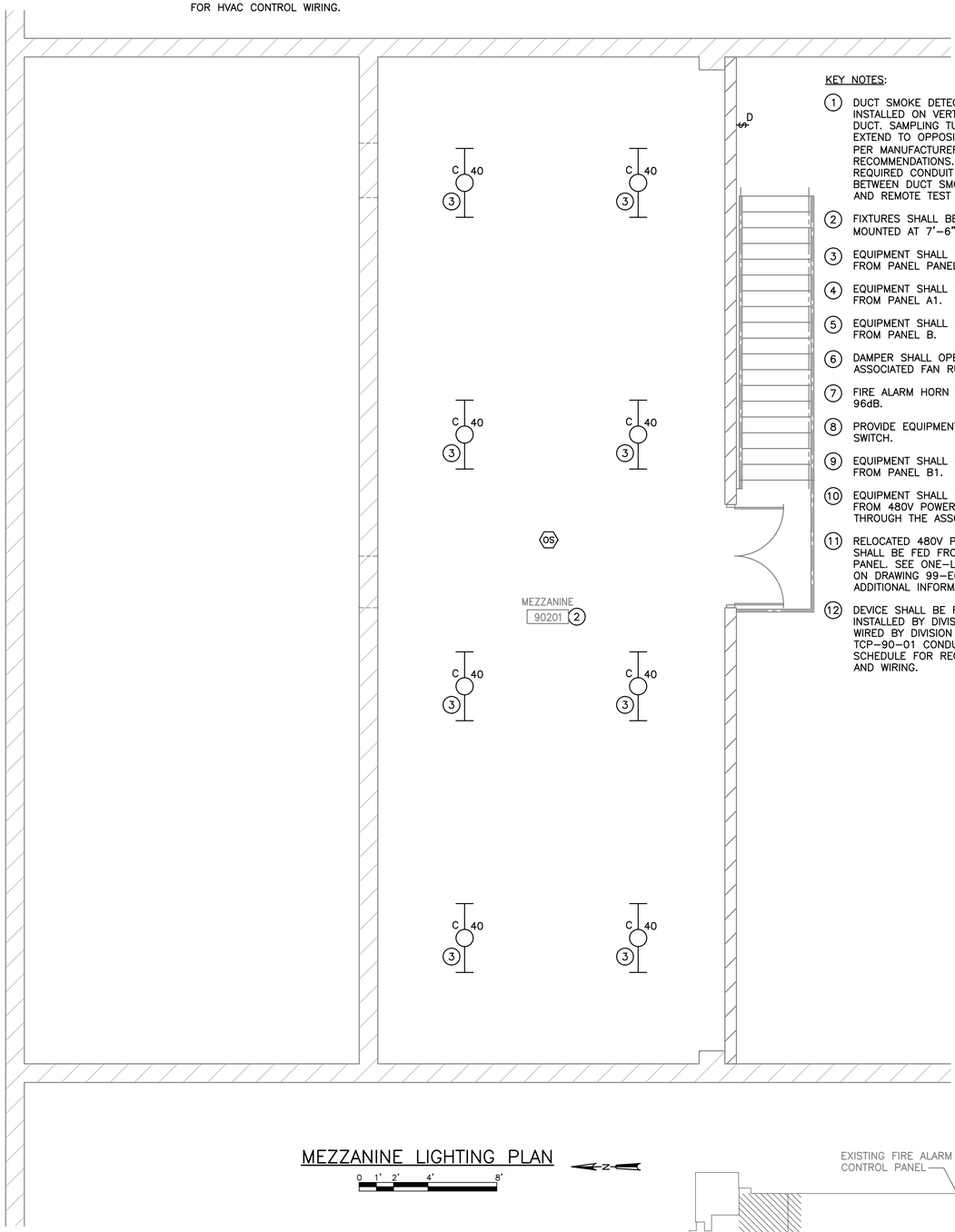
GENERAL NOTES:

1. ALL 120/208V EQUIPMENT SHALL BE POWERED FROM PANEL B1, UNLESS OTHERWISE NOTED.
2. TEMPERATURE CONTROL PANEL (TCP-90-01) SHALL BE POWERED FROM PANEL B1.
3. REFER TO AHU-90-01 CONTROL SCHEMATIC ON SHEET 99-H7.01 FOR HVAC CONTROL WIRING.
4. FIRE ALARM DEVICES SHALL BE WIRED TO EXISTING FIRE ALARM CONTROL PANEL IN GARAGE.
5. PROVIDE NAC PANELS AS REQUIRED TO POWER FAS ANNUNCIATION DEVICES. PROVIDE A DEDICATED 20A, SINGLE-POLE CIRCUIT BREAKER IN THE NEAREST LIGHTING PANEL AND A 120V BRANCH CIRCUIT TO EACH NAC PANEL. PROVIDE SMOKE DETECTOR OVER EACH NAC PANEL LOCATION. CIRCUIT BREAKERS SHALL BE RED AND PERMANENTLY LABELED PER NFPA.



MEZZANINE POWER AND SYSTEMS PLAN

0 1' 2' 4' 8'

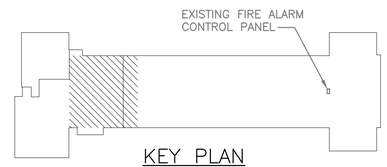


MEZZANINE LIGHTING PLAN

0 1' 2' 4' 8'

KEY NOTES:

1. DUCT SMOKE DETECTOR SHALL INSTALLED ON VERTICAL FACE OF DUCT. SAMPLING TUBE SHALL EXTEND TO OPPOSITE DUCT WALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE REQUIRED CONDUIT AND WIRING BETWEEN DUCT SMOKE DETECTOR AND REMOTE TEST SWITCH.
2. FIXTURES SHALL BE PENDANT MOUNTED AT 7'-6" AFF.
3. EQUIPMENT SHALL BE POWERED FROM PANEL PANEL A.
4. EQUIPMENT SHALL BE POWERED FROM PANEL A1.
5. EQUIPMENT SHALL BE POWERED FROM PANEL B.
6. DAMPER SHALL OPEN WHEN ASSOCIATED FAN RUNS.
7. FIRE ALARM HORN SHALL BE 96dB.
8. PROVIDE EQUIPMENT LABEL ON SWITCH.
9. EQUIPMENT SHALL BE POWERED FROM PANEL B1.
10. EQUIPMENT SHALL BE POWERED FROM 480V POWER PANEL THROUGH THE ASSOCIATED VFD.
11. RELOCATED 480V POWER PANEL SHALL BE FED FROM BREAKROOM PANEL. SEE ONE-LINE DIAGRAM ON DRAWING 99-E6.02 FOR ADDITIONAL INFORMATION.
12. DEVICE SHALL BE FURNISHED AND INSTALLED BY DIVISION 23 AND WIRED BY DIVISION 28. REFER TO TCP-90-01 CONDUIT AND WIRING SCHEDULE FOR REQUIRED CONDUIT AND WIRING.



KEY PLAN

NO.	REVISIONS	DATE:
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UPPER LEVEL ELECTRICAL PLAN

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

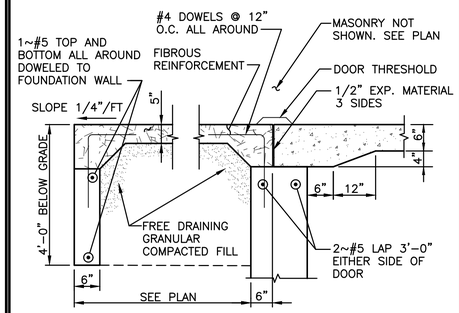
JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

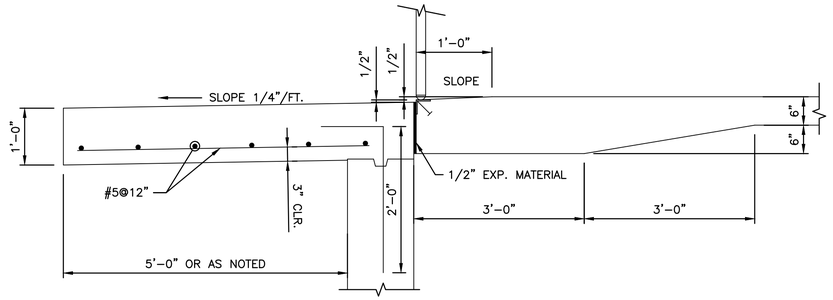
STRAND ASSOCIATES®

SHEET 90
90-E1.03

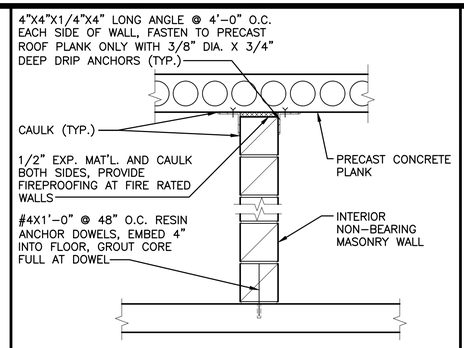
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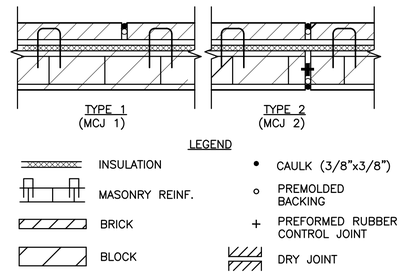
A 99-AS5.01 CONCRETE STOOP
NO SCALE



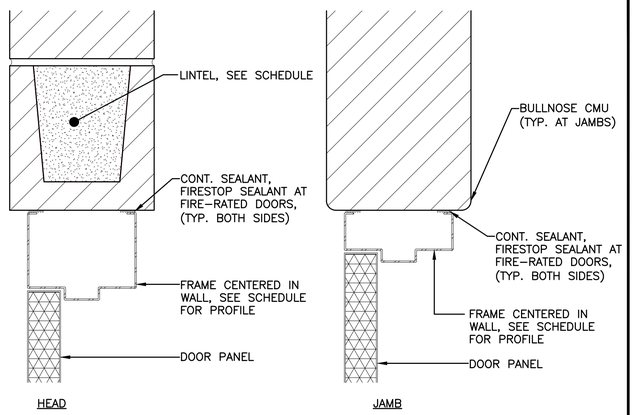
B 99-AS5.01 OVERHEAD DOOR SILL/CONCRETE APRON
NO SCALE



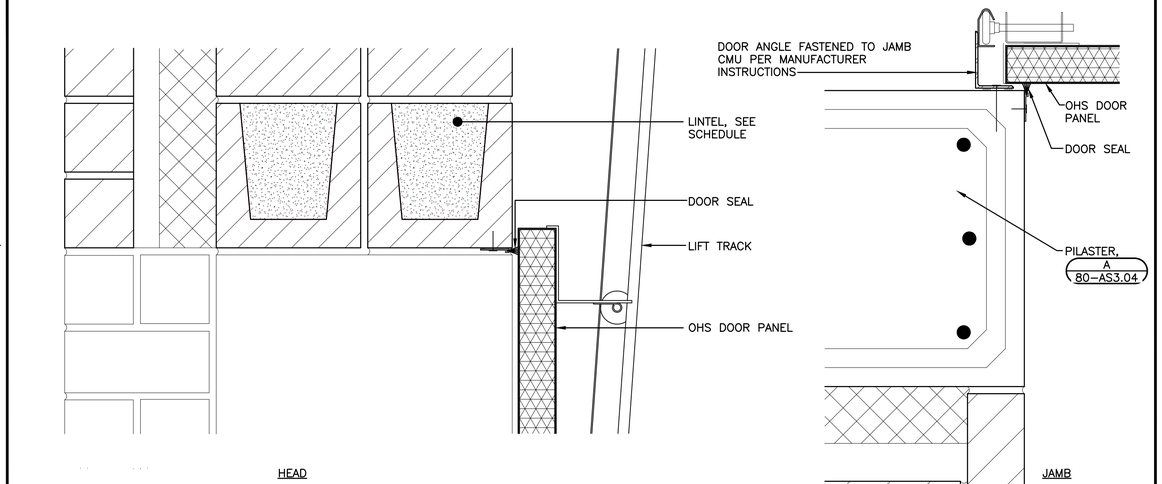
C 99-AS5.01 INTERIOR NON-BEARING WALL
NO SCALE



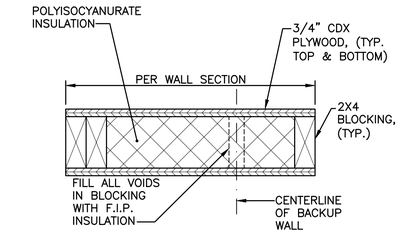
D 99-AS5.01 MASONRY CONTROL JOINT
NO SCALE



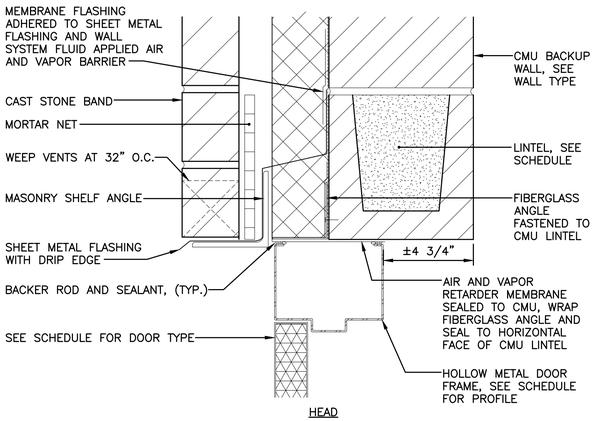
E 99-AS5.01 INTERIOR PERSONNEL DOOR AT CMU WALL
NO SCALE

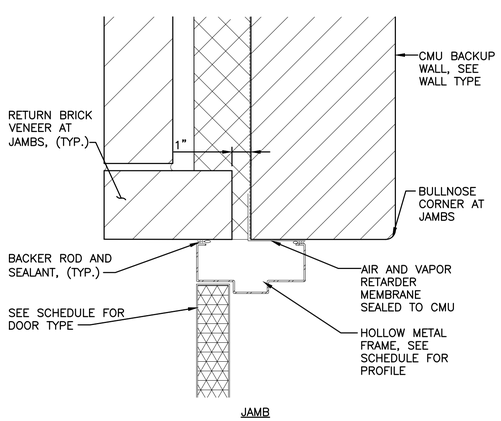


F 99-AS5.01 OVERHEAD SECTIONAL DOOR AT CMU WALL
NO SCALE

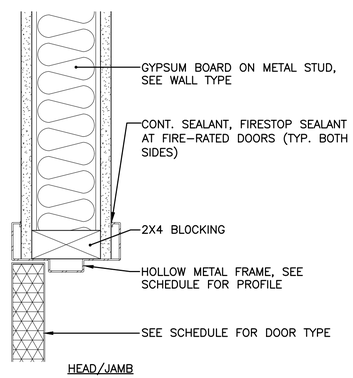


G 99-AS5.01 PARAPET BLOCKING
NO SCALE

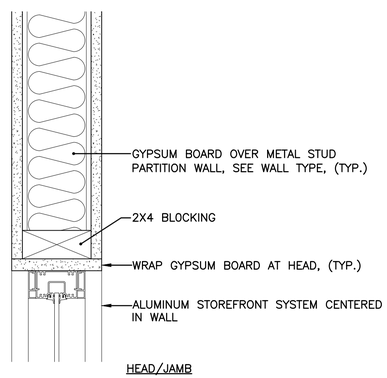




H 99-AS5.01 EXTERIOR PERSONNEL DOOR AT CMU WALL
NO SCALE



J 99-AS5.01 INTERIOR PERSONNEL DOOR AT STUD WALL
NO SCALE



K 99-AS5.01 INTERIOR STOREFRONT DETAILS
NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

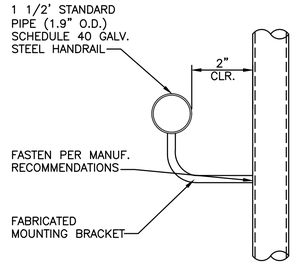
DETAILS - 1

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

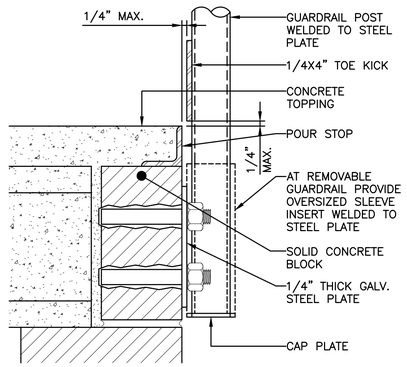
JOB NO. 1110.037
PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

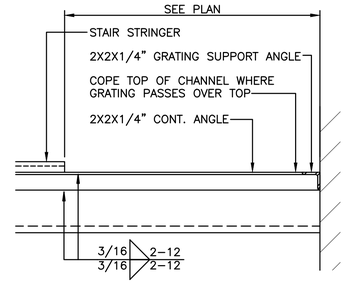
SHEET 91
99-AS5.01



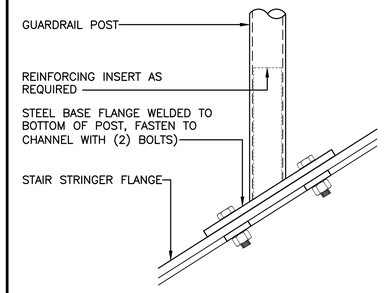
A 99-AS5.02 HANDRAIL MOUNTING
NO SCALE



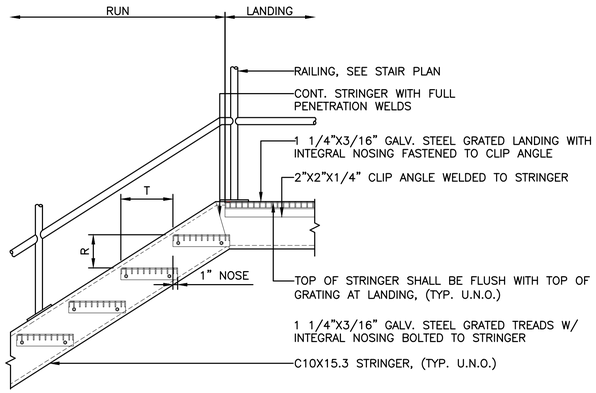
B 99-AS5.02 GUARDRAIL SIDE MOUNT
NO SCALE



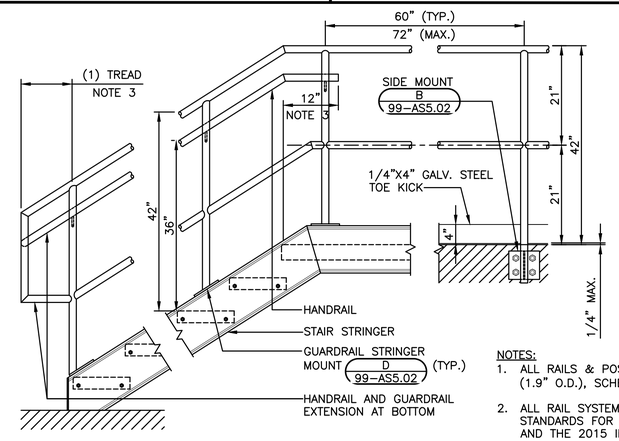
C 99-AS5.02 STRINGER STAIR COPING
NO SCALE



D 99-AS5.02 GUARDRAIL STRINGER MOUNT
NO SCALE

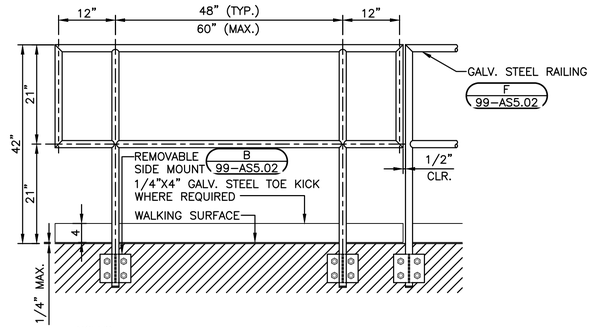


E 99-AS5.02 GALV. STEEL GRATED STAIR
NO SCALE



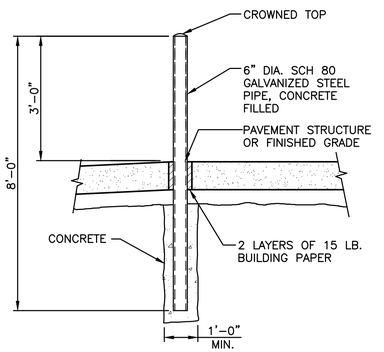
NOTES:
1. ALL RAILS & POSTS SHALL BE 1 1/2" STANDARD PIPE (1.9" O.D.), SCHEDULE 40 GALVANIZED STEEL.
2. ALL RAIL SYSTEMS SHALL MEET OSHA PERFORMANCE STANDARDS FOR PUBLIC AND INDUSTRIAL APPLICATIONS AND THE 2015 INTERNATIONAL BUILDING CODE.
3. EXTEND HANDRAILS HORIZONTALLY A MINIMUM OF 1'-0" BEYOND TOP RISE. HANDRAILS SHALL CONTINUE TO SLOPE FOR THE DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER.
4. MOUNT HANDRAIL TO WALLS OR GUARDRAIL POST PER A 99-AS5.02

F 99-AS5.02 GALV. STEEL RAILING
NO SCALE

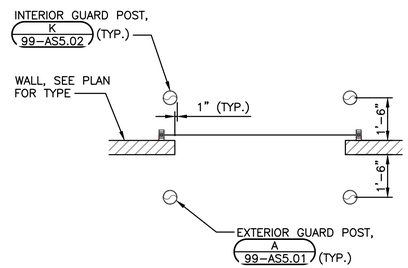


NOTES:
1. ALL RAILS & POSTS SHALL BE 1 1/2" STANDARD PIPE (1.9" O.D.), SCHEDULE 40 GALVANIZED STEEL.
2. SEE PLANS FOR MOUNTING TYPE LOCATIONS.
3. ALL RAIL SYSTEMS SHALL MEET OSHA PERFORMANCE STANDARDS FOR PUBLIC AND INDUSTRIAL APPLICATIONS AND THE 2015 INTERNATIONAL BUILDING CODE.

G 99-AS5.02 REMOVABLE GALV. STEEL GUARDRAIL
NO SCALE

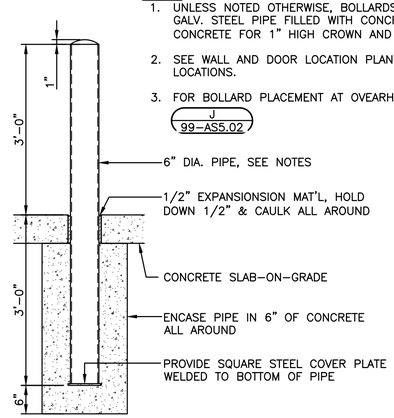


H 99-AS5.02 EXTERIOR GUARD POST
NO SCALE



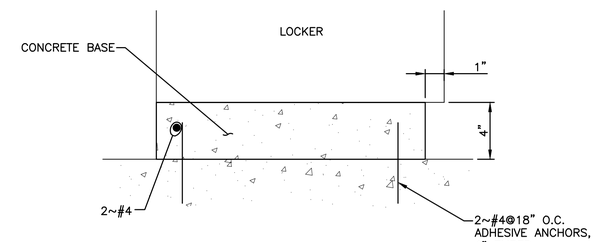
AT OVERHEAD DOOR

J 99-AS5.02 GUARD POST PLACEMENT DETAIL
NO SCALE



NOTES:
1. UNLESS NOTED OTHERWISE, BOLLARDS SHALL BE SCHEDULE 40 GALV. STEEL PIPE FILLED WITH CONCRETE. MOUND TOP OF CONCRETE FOR 1" HIGH CROWN AND BURNISH SMOOTH.
2. SEE WALL AND DOOR LOCATION PLANS FOR BOLLARD LOCATIONS.
3. FOR BOLLARD PLACEMENT AT OVEARHEAD DOORS, SEE DETAIL J 99-AS5.02

K 99-AS5.02 INTERIOR GUARD POST
NO SCALE



L 99-AS5.02 CONCRETE LOCKER BASE
NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

DETAILS - 2

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

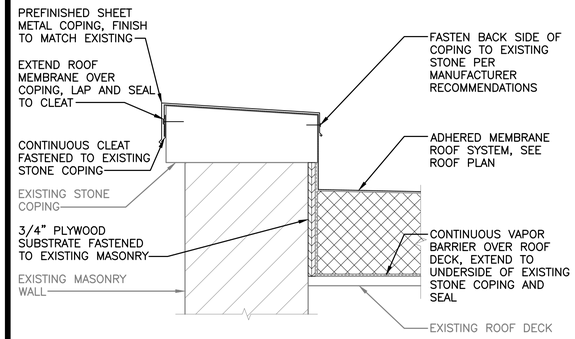
JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

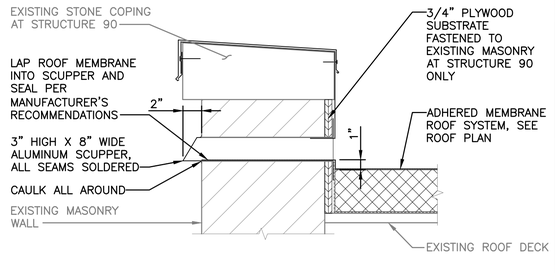
SHEET 92
99-AS5.02

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A 99-AS5.03 METAL COPING

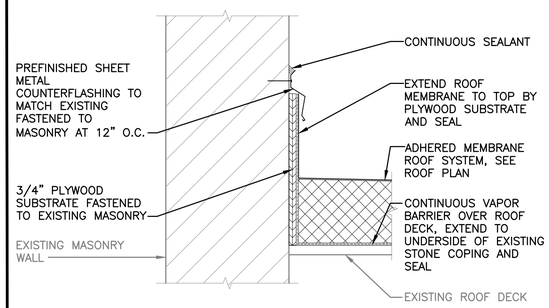
0 3" 6" 1'



NOTE: SCUPPER SHALL BE 4" HIGH AT STRUCTURE 80.

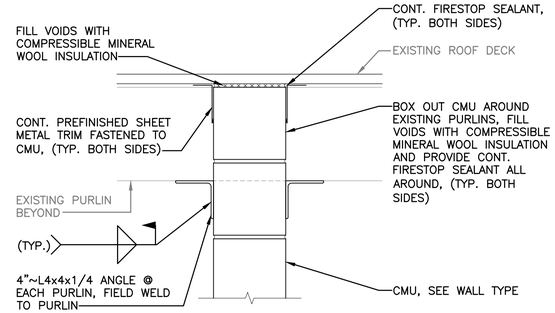
B 99-AS5.03 OVERFLOW SCUPPER

0 3" 6" 1'



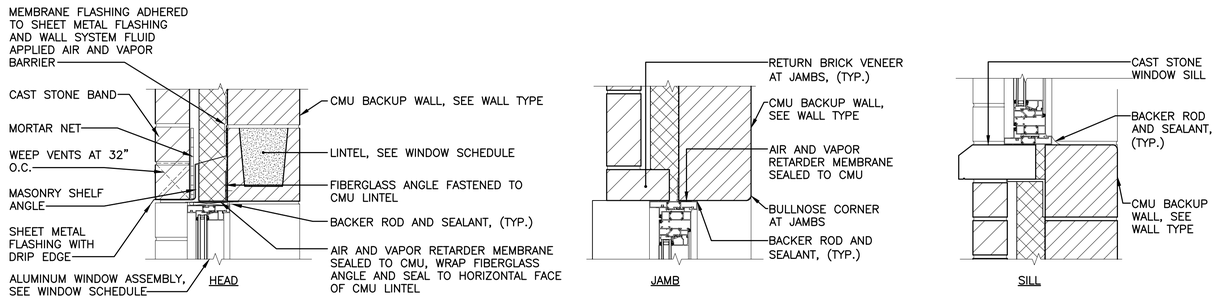
C 99-AS5.03 FLASHING AT EXISTING WALL

0 3" 6" 1'



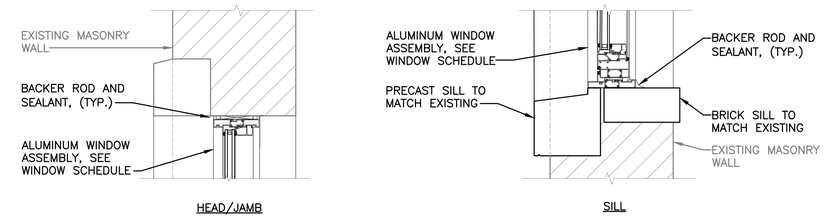
D 99-AS5.03 T.O. CMU WALL AT EXISTING ROOF DECK

0 3" 6" 1'



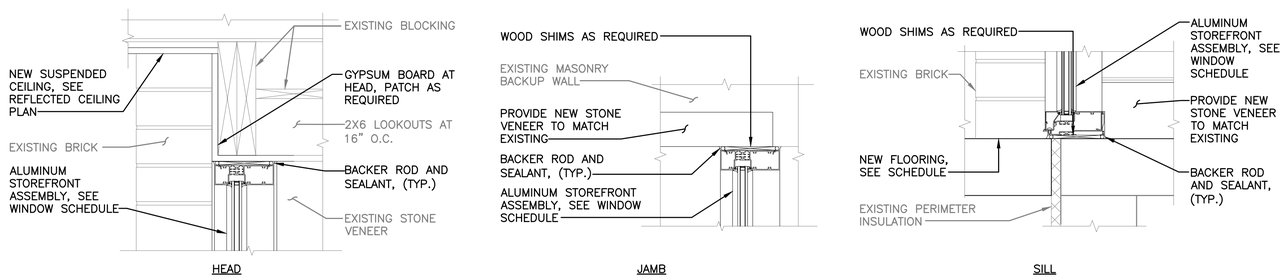
E 99-AS5.03 STRUCTURE 80 EXTERIOR WINDOW DETAILS

0 3" 6" 1'



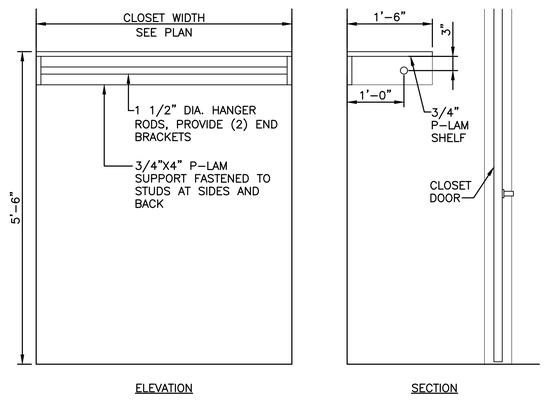
F 99-AS5.03 STRUCTURE 90 EXTERIOR WINDOW DETAILS

0 3" 6" 1'



G 99-AS5.03 STRUCTURE 90 STOREFRONT DETAILS

0 3" 6" 1'



H 99-AS5.03 CLOSET ROD AND SHELF NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

DETAILS - 3

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

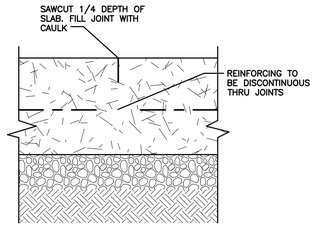
JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

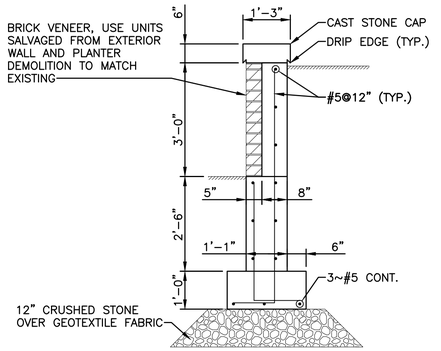
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SHEET 93
99-AS5.03

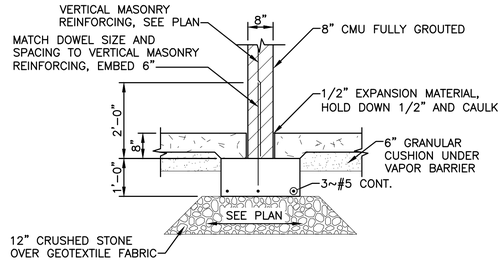
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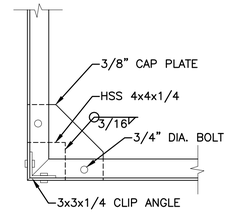
A 99-AS5.04 TYPICAL SLAB SAWN JOINT
NO SCALE



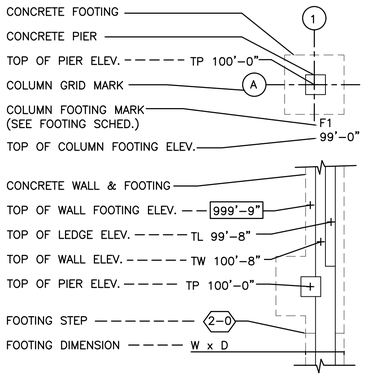
B 99-AS5.04 PLANTER WALL
NO SCALE



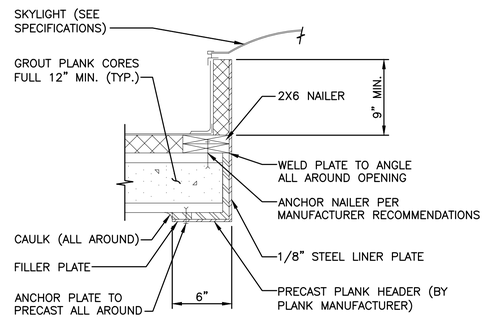
C 99-AS5.04 WALL FOUNDATION
NO SCALE



D 99-AS5.04 COLUMN CAP
NO SCALE



E 99-AS5.04 FOUNDATION LEGEND
NO SCALE

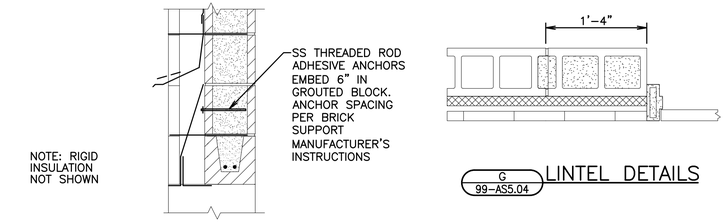


F 99-AS5.04 SKYLIGHT
NO SCALE

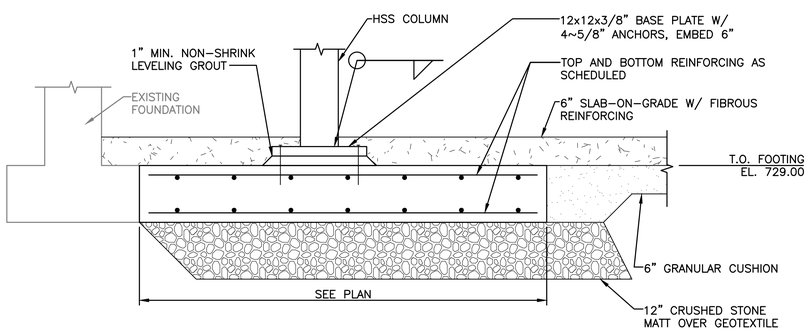
NOTES:
1. LINTELS ARE REQUIRED OVER ALL MASONRY OPENINGS.
2. LINTELS SHALL HAVE A MINIMUM BEARING OF 8".
3. GROUT MASONRY FULL 16" EACH SIDE OF OPENINGS UNDER ALL LINTELS TO FLOOR.
4. PROVIDE BRICK SUPPORTS AT ALL EXTERIOR OPENINGS.
5. LINTEL ASSEMBLIES IN EXTERIOR WALLS SHALL BE HOT-DIPPED GALVANIZED.
6. USE GRADE 60 REINFORCING BARS.
7. BLOCK DIMENSIONS SHOWN ARE NOMINAL. BLOCK SHALL MATCH WIDTH OF WALL.

TYPE	MASONRY LINTELS
TYPE B-1	LINTEL BLOCK
TYPE W	

TYPE	MASONRY LINTELS	
TYPE B-2	BRICK ANGLE AT EXTERIOR OPENINGS (NOT SHOWN)	2 COURSES GROUTED SOLID
TYPE B-3	BRICK ANGLE AT EXTERIOR OPENINGS (NOT SHOWN)	3 COURSES GROUTED SOLID

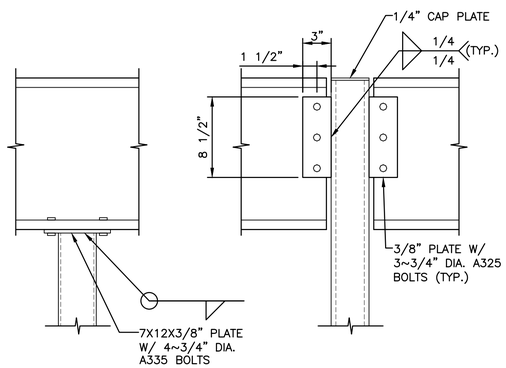


G 99-AS5.04 LINTEL DETAILS



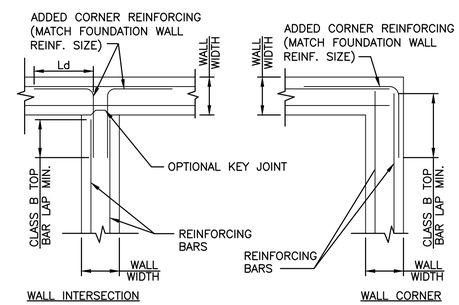
FOOTING	FOOTING SIZE	BOTTOM MAT REINFORCING	TOP MAT REINFORCING
A1, A4	9'-4"x9'-4"x1'-0"	#6@12" EW	#5@12" EW
A2, A3	3'-0"x9'-6"x1'-4"	#6@12" EW	#5@12" EW

H 99-AS5.04 COLUMN FOOTINGS
NO SCALE



COLUMNS A1 AND A4 COLUMNS A2 AND A3

J 99-AS5.04 CONNECTION DETAILS
NO SCALE



FOUNDATION WALL CORNER REINFORCEMENT
K 99-AS5.04 NO SCALE

NO.	REVISIONS	DATE:
-	ISSUED FOR BID	07/24/2025

DETAILS - 4

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037
PROJECT MGR. RYAN WOOD

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SHEET 94
99-AS5.04

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PERSONNEL DOOR SCHEDULE

DOOR NUMBER	SIZE (W x H)	DOOR					FRAME				GLAZING TYPE	FIRE RATING	HARDWARE GROUP		LINTEL TYPE	DETAILS			NOTES
		MATERIAL	TYPE		SWING		MATERIAL	TYPE	PROFILE										
			ACTIVE	INACTIVE	ACTIVE	INACTIVE			JAMB	HEAD			ACTIVE	INACTIVE		HEAD	JAMB	SILL	
STRUCTURE 80 - MAINTENANCE GARAGE																			
80101A	(1) 3'-0" x 7'-0"	IHM	HG	--	LHR	--	IHM	1	HM-1	HM-2	1" IGU	--	801	--	B1	H/99-AS5.01	H/99-AS5.01	--	4
80101B	(1) 3'-0" x 7'-0"	IHM	HG	--	LHR	--	IHM	1	HM-1	HM-2	1" IGU	--	801	--	B1	H/99-AS5.01	H/99-AS5.01	--	4
80102A	(1) 3'-0" x 7'-0"	HM	HG	--	LH	--	HM	1	HM-1	HM-2	1/4" FLT	--	803	--	B3	E/99-AS5.01	E/99-AS5.01	--	4
80103A	(1) 3'-0" x 7'-0"	HM	F	--	RH	--	HM	1	HM-1	HM-2	--	--	804	--	B3	E/99-AS5.01	E/99-AS5.01	--	4
80104A	(2) 3'-2" x 7'-0"	IHM	F	F	LHR	RHR	IHM	1	HM-1	HM-2	--	--	802A	802B	B1	H/99-AS5.01	H/99-AS5.01	--	4
STRUCTURE 90 - ADMINISTRATION BUILDING																			
90121A	(1) 3'-0" x 7'-0"	HM	HG	--	LHR	--	IHM	2	HM-1	HM-1	1" IGU	--	901	--	B1	H/99-AS5.01	H/99-AS5.01	--	
90124A	(1) 3'-0" x 7'-0"	AL	FG	--	LHR	--	AL	--	--	--	1" IGU	--	901	--	EXIST	--	--	--	1
90124B	(1) 3'-0" x 7'-0"	WD	HG	--	LHR	--	HM	1	HM-3	HM-3	1/4" FLT	--	901	--	--	J/99-AS5.01	J/99-AS5.01	--	
90125A	(1) 3'-0" x 7'-0"	WD	F	--	RH	--	HM	1	HM-3	HM-3	--	3/4 HR	906	--	--	J/99-AS5.01	J/99-AS5.01	--	
90126A	(1) 3'-0" x 7'-0"	WD	HG	--	RH	--	HM	1	HM-3	HM-3	5/16" FR	3/4 HR	903	--	--	J/99-AS5.01	J/99-AS5.01	--	
90127A	(1) 3'-0" x 7'-0"	WD	HG	--	LH	--	HM	1	HM-3	HM-3	5/16" FR	3/4 HR	903	--	--	J/99-AS5.01	J/99-AS5.01	--	
90128A	(1) 3'-6" x 7'-0"	IHM	HG	--	RHR	--	HM	3	HM-1	HM-1	1" IGU	--	902	--	EXIST	--	--	--	2
90129A	(1) 3'-0" x 7'-0"	WD	HG	--	RH	--	HM	1	HM-3	HM-3	5/16" FR	3/4 HR	904	--	--	J/99-AS5.01	J/99-AS5.01	--	
90130A	(1) 3'-0" x 7'-0"	HM	F	--	RHR	--	HM	2	HM-1	HM-2	--	3/4 HR	905	--	B1	E/99-AS5.01	E/99-AS5.01	--	
90131A	(1) 3'-0" x 7'-0"	HM	F	--	LHR	--	HM	2	HM-1	HM-2	--	3/4 HR	905	--	B1	E/99-AS5.01	E/99-AS5.01	--	
90132A	(1) 3'-0" x 7'-0"	HM	F	--	RH	--	HM	2	HM-1	HM-2	--	3/4 HR	906	--	B1	E/99-AS5.01	E/99-AS5.01	--	
90133A	(1) 3'-0" x 7'-0"	HM	F	--	LH	--	HM	2	HM-1	HM-2	--	3/4 HR	907	--	B1	E/99-AS5.01	E/99-AS5.01	--	
90135A	(1) 3'-0" x 7'-0"	WD	HG	--	RH	--	HM	1	HM-3	HM-3	5/16" FR	3/4 HR	904	--	--	J/99-AS5.01	J/99-AS5.01	--	
90136A	(1) 3'-0" x 7'-0"	HM	F	--	RHR	--	HM	2	HM-1	HM-2	--	3 HR	902	--	B3	E/99-AS5.01	E/99-AS5.01	--	
90136B	(1) 3'-0" x 7'-0"	WD	HG	--	LH	--	HM	1	HM-1	HM-1	1/4" FLT	--	904	--	EXIST	E/99-AS5.01	E/99-AS5.01	--	2
90141A	(1) 3'-0" x 7'-0"	WD	HG	--	LH	--	HM	1	HM-3	HM-3	5/16" FR	3/4 HR	903	--	--	J/99-AS5.01	J/99-AS5.01	--	
90143A	(1) 3'-0" x 7'-0"	WD	HG	--	RH	--	AL	--	--	--	5/16" FR	3/4 HR	904	--	--	--	--	--	5
90144A	(2) 3'-0" x 7'-0"	WD	F	F	LHR	RHR	HM	1	HM-3	HM-3	--	3/4 HR	908A	908B	--	J/99-AS5.01	J/99-AS5.01	--	
90145A	(1) 3'-0" x 7'-0"	WD	HG	--	LH	--	HM	1	HM-3	HM-3	5/16" FR	3/4 HR	904	--	--	J/99-AS5.01	J/99-AS5.01	--	
90146A	(2) 2'-10" x 7'-0"	WD	F	F	LHR	RHR	HM	1	HM-3	HM-3	--	--	909	909	--	J/99-AS5.01	J/99-AS5.01	--	
90146B	(2) 2'-10" x 7'-0"	WD	F	F	LHR	RHR	HM	1	HM-3	HM-3	--	--	909	909	--	J/99-AS5.01	J/99-AS5.01	--	
90147A	(1) 3'-0" x 7'-0"	WD	F	--	LH	--	HM	1	HM-3	HM-3	--	3/4 HR	907	--	--	J/99-AS5.01	J/99-AS5.01	--	
90201A	(2) 2'-10" x 7'-0"	HM	F	F	LHR	RHR	HM	1	HM-1	HM-1	--	3 HR	908A	908B	--	J/99-AS5.01	J/99-AS5.01	--	3

LEGEND:

MATERIAL		DOOR TYPE		DOOR SWING		GLAZING TYPE	
HM	HOLLOW METAL	F	FLUSH	LH	LEFT HAND	1" IGU	1" INSULATING GLAZING UNIT
IHM	INSULATED HOLLOW METAL	HG	HALF GLASS	RH	RIGHT HAND	1/4" FLT	1/4" FLOAT GLASS
WD	WOOD	NG	NARROW GLASS	LHR	LEFT HAND REVERSE	1/4" FR	1/4" FIRE-RATED GLASS (WIRELITE NT)
AL	ALUMINUM	FG	FULL GLASS	RHR	RIGHT HAND REVERSE	5/16" FR	5/16" FIRE-RATED GLASS (FIRELITE PLUS)

NOTES:
1. SEE WINDOW & STOREFRONT SCHEDULE FOR FRAME TYPE AND DETAILS.
2. FIELD VERIFY EXISTING OPENING DIMENSIONS.
3. PROVIDE POUR STOP AT SILL SIMILAR TO DETAIL B / 99-AS5.02.
4. FOR LINTEL DETAIL SEE G/99-AS5.04
5. SEE WINDOW AND STOREFRONT SCHEDULE FOR FRAME INFORMATION.
6. ALL NEW FENESTRATIONS SHALL COMPLY WITH PROVISIONS OF 2021 INTERNATIONAL ENERGY CONSERVATION CODE SECTIONS C303 & 402.

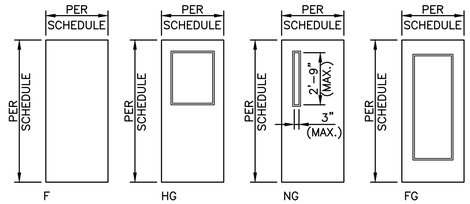
ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL				CEILING		NOTES
				NORTH	EAST	SOUTH	WEST	TYPE	HEIGHT	
STRUCTURE 80 - MAINTENANCE GARAGE										
80101	GARAGE	F2	NONE	W1	W1	W1	W1	C1	20'-0"	
80102	WORK SHOP	F2	NONE	W1	W1	W1	W1	C1	10'-0"	
80103	RESTROOM	F2	NONE	W1	W1	W1	W1	C3	8'-0"	
80104	ELECTRICAL ROOM	F2	NONE	W1	W1	W1	W1	C1	10'-0"	
80201	MEZZANINE	F2	NONE	NONE	W1	W1	W1	C1	9'-0"	
STRUCTURE 90 - ADMINISTRATION BUILDING										
90120	GARAGE	F1	NONE	W1	EX	EX	EX	EX	EX	
90124	VESTIBULE	F6	B1	EX	EX	W2/EX	W2	C2	10'-8"	1
90125	RESTROOM	F3	B2	W2	W2	W2	W3	C3	9'-0"	
90126	OFFICE	F4	B1	EX	W2	W2	W2	C2	10'-8"	1
90127	OFFICE	F4	B1	EX	W2	W2	W2	C2	10'-8"	1
90128	CORRIDOR	F6	B1	W2	W2/EX	W2/EX	W2	C4	9'-0"	
90129	CONFERENCE	F4	B1	EX	W2	W2	EX	C2	10'-8"	1
90130	MEN'S LOCKER ROOM	F1	NONE	W1	W1	W1	W1	C2/C3	8'-6"	
90131	WOMEN'S LOCKER ROOM	F1	NONE	W1	W1	W1	W1	C2/C3	8'-6"	
90132	SHOWER	F3	B2	W2/W3	W2/W3	W1/W3	W1	C3/C4	8'-6"	
90133	JANITOR	F1	NONE	W1	W1	W2	W1	C2	8'-6"	
90135	KITCHENETTE	F6	F6	W2	W2	EX	EX	C2	10'-8"	1
90136	CORRIDOR	F1	NONE	W1	W1	W1	W1	C2	8'-6"	
90137	CONTROL ROOM	EX	B1	W2/EX	EX	W2/EX	W2	C2/EX	EX	
90141	OFFICE	EX	B1	W2/EX	EX	W2/EX	W2	C2	EX	
90142	U.P.S.	EX	EX	EX	EX	EX	EX	EX	EX	
90143	SCADA	F4	B1	W2	W2	W2	W2	C2	9'-0"	
90144	STORAGE	F1	B1	W1	W1	EX	W1	C2	9'-0"	
90145	WORKOUT	F5	B1	EX	W2	EX	W1	C2	12'-6"	
90146	STORAGE CLOSET	F6	B1	W2	W2	W2	W2	C2	8'-6"	
90147	STORAGE	F1	B1	W2	W2	EX	W2	C2	9'-0"	
90201	MEZZANINE	F1	NONE	EX	EX	W1	EX	C5	VARIES	

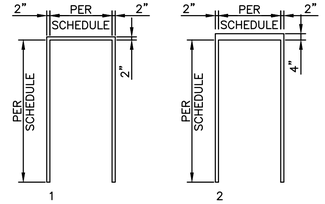
LEGEND:

FLOOR		BASE		WALL		CEILING	
F1	SEALED CONCRETE	B1	VINYL WALL BASE	W1	PAINT CONCRETE BLOCK	C1	PAINT PRECAST CONCRETE
F2	SEALED CONCRETE WITH TEXTURED FINISH	B2	CERAMIC TILE	W2	PAINT GYPSUM BOARD	C2	ACOUSTIC CEILING TILE
F3	CERAMIC TILE	EX	EXISTING	W3	CERAMIC TILE	C3	MOISTURE RESISTANT ACOUSTIC CEILING TILE
F4	CARPET TILE			EX	EXISTING	C4	PAINT GYPSUM BOARD
F5	RUBBER TILE					C5	INSULATION FINISH SYSTEM
F6	VINYL TILE					EX	EXISTING
EX	EXISTING						

NOTES:
1. MATCH WINDOW HEAD HEIGHT.



PERSONNEL DOOR TYPES
NO SCALE



METAL FRAME TYPES
NO SCALE

FRAME PROFILES
NO SCALE

PERSONNEL DOOR HARDWARE GROUPS

STRUCTURE 80 - MAINTENANCE GARAGE

GROUP 801 - EXTERIOR ENTRANCE

QTY	COMPONENT	MANUFACTURER	MODEL NO.	FINISH
3 EA	HINGE	STANLEY	FBB191	32D
1 EA	LOCKSET	SARGENT	10XG04	26D
1 EA	CLOSER	LCN	1460	689
1 EA	KICKPLATE	ROCKWOOD	--	32D
1 EA	THRESHOLD	REESE	S475-A	--
1 EA	SWEEP	REESE	323-C	--
1 EA	WEATHER-STRIPPING	REESE	DS75-C	--
1 EA	ELECTRIC STRIKE	VON DUPRIN	6211	630
1 EA	LATCH PROTECT. PL.	HAGER	341D	32D

GROUP 802A - ELECTRICAL ROOM (ACTIVE)

QTY	COMPONENT	MANUFACTURER	MODEL NO.	FINISH
3 EA	HINGE	STANLEY	FBB191	32D
1 EA	LOCKSET	SARGENT	10XG04	26D
1 EA	CLOSER	LCN	1460-H[c]	689
1 EA	KICKPLATE	ROCKWOOD	--	32D
1 EA	THRESHOLD	REESE	S475-A	--
1 EA	SWEEP	REESE	323-C	--
1 EA	WEATHER-STRIPPING	REESE	DS75-C	--
1 EA	LATCH PROTECT. PL.	HAGER	341D	32D

GROUP 802B - ELECTRICAL ROOM (INACTIVE)

QTY	COMPONENT	MANUFACTURER	MODEL NO.	FINISH
2 EA	HINGE	STANLEY	FBB191	32D
1 EA	HINGE CENTER	STANLEY	CEFBB191	32D
1 EA	RIGID LEVER[a]	SARGENT	10XJ93	26D
2 EA	SUFACE BOLTS[b]	IVES	1630	26D
1 EA	KICKPLATE	ROCKWOOD	--	32D
1 EA	ASTRAGAL	REESE	87-C	--
1 EA	SWEEP	REESE	323-C	--
1 EA	WEATHER-STRIPPING	REESE	DS75-C	--
1 EA	HOLDER	GLYNN JOHNSON	81H	32D
1 EA	ELECTRIC STRIKE	VON DUPRIN	6211	630

GROUP 803 - PASSAGE

QTY	COMPONENT	MANUFACTURER	MODEL NO.	FINISH
3 EA	HINGE	STANLEY	FBB191	32D
1 EA	LATCHSET	SARGENT	10XU15	26D
1 EA	CLOSER	LCN	1461-H[c]	689
1 EA	KICKPLATE	ROCKWOOD	--	32D

GROUP 804 - RESTROOM (PRIVACY)

QTY	COMPONENT	MANUFACTURER	MODEL NO.	FINISH
3 EA	HINGE	STANLEY	FBB191	32D
1 EA	LOCKSET	SARGENT	10XU65	26D
1 EA	CLOSER	LCN	1461	689
1 EA	KICKPLATE	ROCKWOOD	--	32D

STRUCTURE 90 - ADMINISTRATION BUILDING

GROUP 901 - EXTERIOR ENTRANCE (PUBLIC)

QTY	COMPONENT	MANUFACTURER	MODEL NO.	FINISH
1 EA	HINGE	KAWNEER	CONT. GEAR	#17
1 EA	LOCKSET	SARGENT	10XG04	26D
1 EA	CLOSER	LCN	1460	689
1 EA	THRESHOLD	REESE	S475-A	--
1 EA	SWEEP	KAWNEER	--	--
1 EA	WEATHER-STRIPPING	KAWNEER	--	--
1 EA	ELECTRIC STRIKE	VON DUPRIN	6211	630
1 EA	LATCH PROTECT. PL.	HAGER	341D	32D

GROUP 902 - EXTERIOR ENTRANCE (EMPLOYEE)

QTY	COMPONENT	MANUFACTURER	MODEL NO.	FINISH
3 EA	HINGE	STANLEY	FBB191	32D
1 EA	LOCKSET	SARGENT	10XG05	26D
1 EA	CLOSER	LCN	1460	689
1 EA	KICKPLATE	ROCKWOOD	--	32D
1 EA	THRESHOLD	REESE	S475-A	--
1 EA	SWEEP	REESE	323-C	--
1 EA	WEATHER-STRIPPING	REESE	DS75-C	--
1 EA	ELECTRIC STRIKE	VON DUPRIN	6211	630
1 EA	LATCH PROTECT. PL.	HAGER	341D	32D

GROUP 903 - INTERIOR ENTRANCE / OFFICE

QTY	COMPONENT	MANUFACTURER	MODEL NO.	FINISH
3 EA	HINGE	STANLEY	FBB191	32D
1 EA	LOCKSET	SARGENT	10XG05	26D
1 EA	CLOSER	LCN	1461	689
1 EA	WALL STOP	ROCKWOOD	403	26D

GROUP 904 - PASSAGE

QTY	COMPONENT	MANUFACTURER	MODEL NO.	FINISH
3 EA	HINGE	STANLEY	FBB191	32D
1 EA	LATCHSET	SARGENT	10XU15	26D
1 EA	CLOSER	LCN	1461	689
1 EA	WALL STOP	ROCKWOOD	403	26D

GROUP 905 - LOCKER ROOM

QTY	COMPONENT	MANUFACTURER	MODEL NO.	FINISH
3 EA	HINGE	STANLEY	FBB191	32D
1 EA	LATCHSET	SARGENT	10XU15	26D
1 EA	CLOSER	LCN	1461	689
1 EA	KICKPLATE	ROCKWOOD	--	32D
1 EA	WALL STOP	ROCKWOOD	403	26D

GROUP 906 - RESTROOM (PRIVACY)

QTY	COMPONENT	MANUFACTURER	MODEL NO.	FINISH
3 EA	HINGE	STANLEY	FBB191	32D
1 EA	LOCKSET	SARGENT	10XU65	26D
1 EA	CLOSER	LCN	1461	689
1 EA	KICKPLATE	ROCKWOOD	--	32D
1 EA	WALL STOP	ROCKWOOD	403	26D

GROUP 907 - STOREROOM

QTY	COMPONENT	MANUFACTURER	MODEL NO.	FINISH
3 EA	HINGE	STANLEY	FBB191	32D
1 EA	LOCKSET	SARGENT	10XU65	26D
1 EA	CLOSER	LCN	1461	689
1 EA	KICKPLATE	ROCKWOOD	--	32D
1 EA	WALL STOP	ROCKWOOD	403	26D

GROUP 908A - STOREROOM (ACTIVE)

QTY	COMPONENT	MANUFACTURER	MODEL NO.	FINISH
3 EA	HINGE	STANLEY	FBB191	32D
1 EA	LOCKSET	SARGENT	10XU65	26D
1 EA	CLOSER	LCN	1461	689
1 EA	KICKPLATE	ROCKWOOD	--	32D

GROUP 908B - STOREROOM (INACTIVE)

QTY	COMPONENT	MANUFACTURER	MODEL NO.	FINISH
3 EA	HINGE	STANLEY	FBB191	32D
1 EA	RIGID LEVER[a]	SARGENT	10XU93	26D
1 EA	SUFACE BOLT[d]	IVES	1630	26D
1 EA	KICKPLATE	ROCKWOOD	--	32D
1 EA	CLOSER	LCN	1461	689
1 EA	COORDINATOR	ROCKWOOD	1700	628

GROUP 909 - CLOSET

QTY	COMPONENT	MANUFACTURER	MODEL NO.	FINISH
3 EA	HINGE	STANLEY	FBB191	32D
1 EA	ROLLER LATCH[e]	ROCKWOOD	592	26D
1 EA	RIGID LEVER[a]	SARGENT	10XJ93	26D

NOTES:
a. MOUNT ON PULL SIDE OF DOOR.
b. MOUNT ON TOP AND BOTTOM OF DOOR.
c. PROVIDE HOLD-OPEN FUNCTION.
d. MOUNT ON TOP OF DOOR ONLY.
e. PROVIDE (1) ROLLER LATCH PER PAIR OF DOORS.

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

SCHEDULES - 1

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037
PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 95
99-AS6.01

File: S:\MAD\1100--1199\1110\037\Drawings\CAD\AutoCAD\99-AS6.01.dwg Time: Jul 18, 2025 - 11:15am

OVERHEAD DOOR SCHEDULE

DOOR NUMBER	SIZE (W x H)	DOOR MATERIAL	DOOR TYPE	NO. OF LITES	FRAME MATERIAL	FIRE RATING	LIFT TYPE	OPERATION	ACTIVATION EXTERIOR	ACTIVATION INTERIOR	LINTEL TYPE	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	NOTES
STRUCTURE 80 - MAINTENANCE GARAGE															
80101C	14'-0" X 14'-0"	ISTL	OHS	3	STL	--	STD	MOTOR	[TBD]	[TBD]	W16x45	F/99-AS5.01	F/99-AS5.01	B/99-AS5.01	1,2
80101D	14'-0" X 14'-0"	ISTL	OHS	3	STL	--	STD	MOTOR	[TBD]	[TBD]	B3	F/99-AS5.01	F/99-AS5.01	B/99-AS5.01	1,2

LEGEND:

MATERIAL		DOOR TYPE		LIFT TYPE	
ISTL	INSULATED STEEL	OHS	OVERHEAD SECTIONAL	STD	STANDARD
STL	STEEL				

NOTES:
1. FOR LINTEL DETAILS SEE (F/99-AS5.05).
2. LINTEL SCHEDULED IS FOR OUTER WYTHE OF CMU. FOR INNER WYTHE, PROVIDE B3 LINTEL.
3. ALL NEW FENESTRATIONS SHALL COMPLY WITH PROVISIONS OF 2021 INTERNATIONAL ENERGY CONSERVATION CODE SECTIONS C303 & 402.

WINDOW & STOREFRONT SCHEDULE

WINDOW NUMBER	SIZE (W x H)	SILL ELEVATION	WINDOW TYPE	FRAME MATERIAL	GLAZING TYPE	LINTEL TYPE	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	NOTES
STRUCTURE 80 - MAINTENANCE GARAGE										
W1	6'-0" x 4'-0"	103'-4"	FIXED-PO	AL	1" IGU	SEE NOTE 2	E/99-AS5.03	E/99-AS5.03	E/99-AS5.03	2
STRUCTURE 90 - ADMINISTRATION BUILDING										
W2	10'-8" x 6'-5"	± 130'-0"	FIXED-PO	AL	1" IGU	EXIST	F/99-AS5.03	F/99-AS5.03	F/99-AS5.03	1
S1	8'-0" x 10'-8"	--	FIXED	AL	1" IGU	EXIST	G/99-AS5.03	G/99-AS5.03	G/99-AS5.03	1
S2	12'-10" x 7'-2"	--	FIXED	AL	1/4" FLOAT	--	K/99-AS5.01	K/99-AS5.01	K/99-AS5.01	

LEGEND:

WINDOW TYPE		MATERIAL		GLAZING TYPE	
FIXED	FIXED	AL	ALUMINUM	1" IGU	1" INSULATED GLAZING UNIT
FIXED-PO	FIXED WITH PROJECT OUT				

NOTES:
1. FIELD VERIFY EXISTING OPENING DIMENSIONS.
2. PROVIDE B1 LINTEL OVER WEST WALL WINDOW. PROVDE B3 LINTEL OVER SOUTH WALL LINTELS.
3. ALL NEW FENESTRATIONS SHALL COMPLY WITH PROVISIONS OF 2021 INTERNATIONAL ENERGY CONSERVATION CODE SECTIONS C303 & 402.

STRUCTURAL DESIGN CRITERIA - GARAGE (STR 80)

DESIGN CODES	BUILDING CODE		IBC 2015
	CONCRETE DESIGN CODE		ACI 318-14
	MASONRY DESIGN CODE		ACI 530-13
	OCCUPANCY CATEGORY		II
FLOOR LIVE LOAD	UNIFORMLY DISTRIBUTED (PSF)	TYPICAL	100
		MEZZANINE	125
	CONCENTRATED (LBS)		EQUIPMENT OPERATING WEIGHTS VARY
	IMPACT		FROM EQUIP. MFR.
	REDUCTION		PER IBC CODE
ROOF LIVE LOAD	MINIMUM ROOF LIVE LOAD (PSF)		20
FLAT ROOF RAIN LOAD	AVG. EFF. RAIN DEPTH TO I.E. OF SCUPPER (d_s)		5.25 INCHES
	ADDTL. DEPTH ABOVE SCUPPER I.E. TO PASS DESIGN FLOW (d_h)		0.5 INCHES
	FLAT ROOF RAIN LOAD (PSF)		5 PSF
ROOF SNOW LOAD	GROUND SNOW LOAD (P_g) (PSF)		30
	FLAT ROOF SNOW LOAD (P_f)		21
	SNOW EXPOSURE FACTOR (C_e)		1
	SNOW LOAD IMPORTANCE FACTOR (I_s)		1
	THERMAL FACTOR (C_t) -		1
	DRIFT LOADS		PER IBC CODE
WIND LOAD	BASIC 3-SECOND GUST WIND SPEED (MPH)		115
	WIND IMPORTANCE FACTOR (I_w)		1
	WIND EXPOSURE		C
	INTERNAL PRESSURE COEFFICIENT (GC_{pi})		0.18
	COMPONENTS AND CLADDING DESIGN WIND PRESSURE (PSF)		PER IBC CODE
EARTHQUAKE DESIGN DATA	SEISMIC IMPORTANCE FACTOR (I_E)		1
	SITE CLASS		D
	SPECTRAL RESPONSE COEFFICIENTS	S_{DS}	0.128
		S_{D1}	0.091
	SEISMIC DESIGN CATEGORY		B
	BASIC SEISMIC FORCE RESISTING SYSTEM (ALL CONCRETE BLOCK BUILDINGS)		ORDINARY REINFORCED MASONRY SHEAR WALLS
	RESPONSE MODIFICATION COEFFICIENT (R)		2
	DESIGN BASE SHEAR		.065W
	ANALYSIS PROCEDURE		SIMPLIFIED
OTHER LOADS	LATERAL EARTH PRESSURE (PCF EQUIV. FLUID)	DRY - ACTIVE PRESSURE	N/A
		DRY - AT-REST PRESSURE	N/A
		BELOW WATER TABLE	N/A
	BUOYANCY (PCF X DEPTH BELOW GROUNDWATER LEVEL)		62.4
GEOTECHNICAL	NET ALLOWABLE SOIL BEARING PRESSURE		3000
	PLANNED SUBGRADE		1' BELOW BOT. OF BASE SLAB OR FOOTING

MINIMUM LAP LENGTHS FOR REINFORCING BARS

BAR SIZE	WALLS VERT. BARS	WALLS HORIZ. BARS	SLABS TOP MAT BARS	SLABS BOTTOM MAT BARS
#4	1'-6"	1'-10"	1'-10"	1'-6"
#5	1'-9"	2'-2"	2'-2"	1'-9"
#6	2'-0"	2'-7"	2'-7"	2'-0"
#7	2'-11"	3'-8"	3'-8"	2'-11"
#8	3'-3"	4'-2"	4'-2"	3'-3"
#9	4'-0"	5'-2"	5'-2"	4'-0"
#10	4'-11"	6'-4"	6'-4"	4'-11"
#11	5'-10"	7'-8"	7'-8"	5'-10"

NOTES:

1. WHERE TWO BARS OF DIFFERENT SIZE ARE LAPPED, USE LAP LENGTH FOR SMALLER BAR.
2. USE LAP LENGTHS IN THIS TABLE WHERE LAP LENGTH IS NOT SHOWN ON DRAWING.
3. TABLE DOES NOT APPLY FOR BEAMS AND COLUMNS.

CLEAR COVER TO REINFORCING BARS

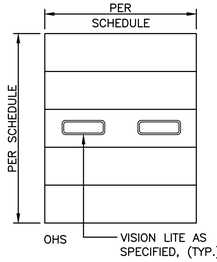
ITEM	MINIMUM CLEAR COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH, LIQUID, OR WEATHER	2"
SLABS, WALLS, OR JOISTS NOT EXPOSED TO WEATHER, LIQUID, OR IN CONTACT WITH GROUND	1"
BEAMS AND COLUMNS NOT EXPOSED TO WEATHER, LIQUID, OR IN CONTACT WITH GROUND	1 1/2"

NOTES:

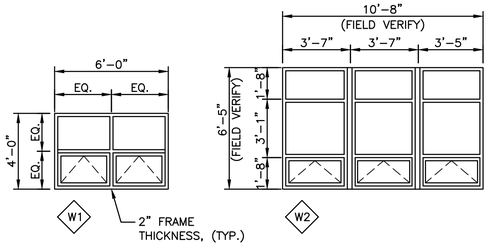
1. CLEAR COVER IS MEASURED FROM MEMBER FACE TO NEAREST EDGE OF REINFORCING BAR
2. CLEAR COVER FOR BEAMS AND COLUMNS IS MEASURED TO NEAREST EDGE OF STIRRUPS.
3. FOR WALLS AND SLABS WITH SINGLE MAT OF REINFORCING, PLACE REBAR WHERE SHOWN ON THE DRWGS. WHERE COVER IS NOT INDICATED, CENTER SINGLE MAT OF REINFORCING IN WALL OR SLAB.

ALLOWABLE STRESSES AND LOADS

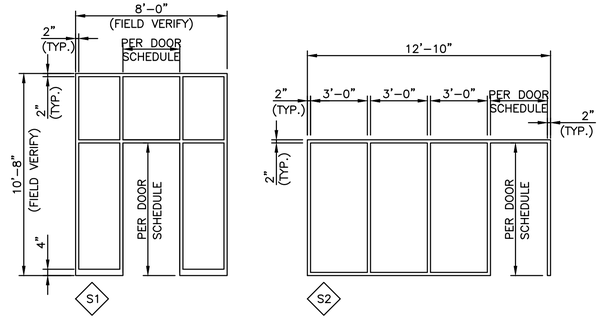
MATERIAL	MATERIAL STRESS, DESIGNATION, OR ALLOWABLE LOAD
CIP CONCRETE	f_c' = 4000 psi
CONCRETE BLOCK	f_m' = 1500 psi
REINFORCING STEEL (GRADE 60)	F_y = 60 ksi
STRUCTURAL STEEL	F_y = 36 ksi or 50 ksi
STRUCTURAL ALUMINUM (6061-T6)	F_y = 35 ksi
WELDING ELECTRODES	E70XX
ANCHOR BOLTS	ASTM F1554 GRADE 36
CONNECTION BOLTS	ASTM A325
ALLOWABLE SOIL BEARING (NET):	



OVERHEAD DOOR TYPES
NO SCALE



WINDOW TYPES
NO SCALE



STOREFRONT TYPES
NO SCALE

LINTEL SCHEDULE

LOCATION	OPENING TYPE	OPENING CLEAR WIDTH(S)	LINTEL TYPE	NOTES
1000 - MERRILL AVENUE RESERVOIR AND BOOSTER STATION				
West Wall Room 1100	HVAC	2'-0"	L-1	1
West Wall Room 1100	HVAC	3'-4"	L-2	1
West Wall Room 1100	HVAC	1'-4"	L-1	1
West Wall Room 1100	HVAC	4'-8"	L-2	1
West Wall Room 1200	HVAC	4'-8"	L-2	1
North Wall Room 1200	HVAC	7'-4"	L-1	1
North Wall Room 1200	HVAC	3'-4"	L-1	1
North Wall Room 1100	HVAC	6'-4"	L-1	1
East Wall Rooom 1300	HVAC	3'-4"	L-2	1
East Wall Rooom 1100	HVAC	3'-4"	L-2	1
East Wall Rooom 1400	HVAC	3'-4"	L-2	1
West Wall Room 1500	HVAC	2'-0"	L-1	1
West Wall Room 1500	HVAC	2'-0"	L-1	1
West Wall Room 1500	HVAC	2'-0"	L-1	1
West Wall Room 1500	HVAC	2'-0"	L-1	1
East Wall Room 1500	HVAC	7'-4"	L-3	1
East Wall Room 1500	HVAC	7'-4"	L-3	1

NOTES:

1. SEE DOOR AND WINDOW SCHEDULES FOR LINTELS AT DOORS AND WINDOWS.
2. SEE DETAIL K/9999-AS-02 FOR LINTEL TYPES AND DETAILS.
3. PROVIDE 8" X 8" X 5/8" BEARING PLATE.

GENERAL DEMOLITION NOTES:

1. SEE SPECIFICATIONS FOR GENERAL DEMOLITION REQUIREMENTS.
2. SEE SPECIFICATION SECTION 01 11 00 FOR CONSTRUCTION SEQUENCE AND PHASING OF WORK.
3. UNLESS OTHERWISE SHOWN, INSTALL BLIND FLANGE, MJ PLUG, AND/OR FILL WITH NON-SHRINK GROUT ALL WALL PENETRATIONS WHERE EXISTING PIPING IS REMOVED.
4. WHERE DEMOLITION EXPOSES EXISTING REINFORCEMENT AND/OR PRODUCES A ROUGH CONCRETE SURFACE, BURN BACK REINFORCING 2 INCHES AND PATCH SURFACE WITH NON-SHRINK GROUT.
5. PATCH ANY HOLES OR OPENINGS IN EXTERIOR WALLS OR FLOOR SLABS WATERTIGHT FROM REMOVED FASTENERS, AND OTHER APPURTENANCES.
6. EXISTING INFORMATION SHOWN ON DRAWING WAS OBTAINED FROM EXISTING DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF EXISTING INFORMATION AS REQUIRED FOR BIDDING AND NEW CONSTRUCTION.
7. DRAWINGS DO NOT NECESSARILY INDICATE ALL ITEMS REQUIRING DEMOLITION, REMOVAL, OR PATCHING. ALL DEMOLITION REMOVAL, REMOVAL, CUTTING, PATCHING AND OTHER WORK NECESSARY TO ACCOMMODATE NEW CONSTRUCTION SHALL BE INCLUDED IN CONTRACT.
8. LOCATIONS OF EXISTING EQUIPMENT, PIPING, OR CONDUIT SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING COMPONENTS IN ORDER TO PERFORM THE CONSTRUCTION SHOWN ON THE DRAWINGS.
9. NOT ALL EQUIPMENT, PIPING, OR CONDUIT IS SHOWN. ALL LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING STRUCTURES, PIPING, EQUIPMENT, AND CONDUIT.
10. WHERE CONCRETE WALLS ARE REMOVED, PROVIDE SAWCUT AT LIMITS OF WALLS TO REMAIN.

GENERAL NOTES:

1. SEE A / 01-C5.01 FOR FILL AND BACKFILL REQUIREMENTS.
2. REMOVE AND REPLACE UNSUITABLE SOILS FROM BENEATH STRUCTURES AS DIRECTED BY THE PROJECT SOILS ENGINEER AND PROVIDE GROUND IMPROVEMENT SYSTEM AS SPECIFIED AND/OR SHOWN ON DRAWINGS FOR AFFECTED STRUCTURES.
3. ALL BELOW-GRADE WALLS WITH EARTH ON ONE SIDE AND OCCUPIABLE SPACES OR EQUIPMENT SPACES ON THE OTHER SHALL HAVE FLUID-APPLIED WATER PROOFING APPLIED TO THE EXTERIOR FACE OF THE WALL.
4. WHERE ADHESIVE ANCHOR DOWELS ARE CALLED OUT ON DRAWINGS, ROUGHEN JOINT SURFACE TO 1/4" AMPLITUDE. PROVIDE BONDING AGENT AND EMBED DOWELS 5" MIN. INTO CONCRETE UNLESS NOTED OTHERWISE. CONCRETE MUST BE CURED MINIMUM 21 DAYS BEFORE ADHESIVE INSTALLATION.
5. PROVIDE MINIMUM CLEAR COVER OVER REINFORCING STEEL PER THE TABLE ON THIS SHEET UNLESS NOTED OTHERWISE ON THE DRAWINGS.
6. PROVIDE MINIMUM LAP LENGTHS AS SHOWN ON THE LAP LENGTH SCHEDULE ON DRAWINGS THIS SHEET.
7. HORIZONTAL REINFORCING BARS IN WALLS SHALL BE PLACED OUTSIDE OF THE VERTICAL BARS IN WALLS UNLESS SHOWN OTHERWISE.
8. PROVIDE CORNER REINFORCING AT BASEMENT AND FOUNDATION WALLS.
9. WHERE PIPING PASSES THROUGH MASONRY WALLS, PROVIDE SLEEVE PER DETAIL N / 99-H5.01 .
10. UNLESS NOTED OTHERWISE, PROVIDE MINIMUM #4@48" VERTICAL REINFORCING FULL HEIGHT CENTERED IN CMU WALLS. LAP BARS 2'-0". PROVIDE #4@48" X 2'-6" LONG DRILLED ADHESIVE DOWELS EMBEDDED 6" INTO THE BOND BEAM AT TOP OF WALL. GROUT REINFORCED CELLS FULL HEIGHT.
11. WHERE EXISTING MASONRY OPENINGS ARE TO BE PATCHED WITH NEW MASONRY, TOOTH IN NEW UNITS OR USE WIRE TIES @16" O.C. VERTICALLY TO MATCH JOINT REINFORCING. DRILL INTO EXISTING MASONRY W/ADHESIVE ANCHORS, EMBED 4".
12. PROVIDE LINTELS OVER ALL MASONRY OPENINGS. SEE DOOR, WINDOW, AND LINTEL SCHEDULES.

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

SCHEDULES - 2

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037
PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 96
99-AS6.02

SCHEDULE OF SPECIAL INSPECTIONS

CONCRETE CONSTRUCTION

ITEM	CONTINUOUS INSPECTION	PERIODIC INSPECTION
INSPECTION OF REINFORCING STEEL PLACEMENT		X
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE		X
INSPECTION OF ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY	X	
INSPECTION OF MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT INSTALLED HORIZONTALLY OR INCLINED		X
VERIFYING USE OF REQUIRED DESIGN MIX		X
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS,	X	
INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND		X
ERECTION OF PRECAST CONCRETE MEMBERS		X
VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FOR BEAMS AND STRUCTURAL SLABS		X
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSION OF THE CONCRETE MEMBER BEING FORMED		X

MASONRY CONSTRUCTION

ITEM	CONTINUOUS INSPECTION	PERIODIC INSPECTION
COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED		X
VERIFICATION OF f'm PRIOR TO CONSTRUCTION		X
AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
A. PROPORTIONS OF SITE-PREPARED MORTAR		X
B. CONSTRUCTION OF MORTAR JOINTS		X
C. LOCATION OF REINFORCEMENT		X
DURING CONSTRUCTION, VERIFY THE FOLLOWING:		
A. TYPE, SIZE AND LOCATION OF ANCHORAGE OF MASONRY TO OTHER CONSTRUCTION		X
B. SPECIFIED SIZE, GRADE, AND TYPE OF REINFORCEMENT		X
C. COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)		X
PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE		
A. GROUT SPACE IS CLEAN		X
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND ANCHORAGES		X
C. PROPORTIONS OF SITE-PREPARED GROUT		X
D. CONSTRUCTION OF MORTAR JOINTS		X
GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE	X	

SOILS

ITEM	CONTINUOUS INSPECTION	PERIODIC INSPECTION
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE		X
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED		X
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING	X	
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY		X

STRUCTURAL STEEL CONSTRUCTION
(IN ACCORDANCE WITH QUALITY ASSURANCE REQUIREMENTS OF AISC 360)

VERIFICATION AND INSPECTION	QC INSPECTION	QA INSPECTION
PRIOR TO WELDING		
WELDING PROCEDURE SPECIFICATIONS AVAILABLE	CONTINUOUS	CONTINUOUS
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	CONTINUOUS	CONTINUOUS
MATERIAL IDENTIFICATION (TYPE/GRADE)	PERIODIC	PERIODIC
WELDER IDENTIFICATION SYSTEM	PERIODIC	PERIODIC
FIT-UP OF GROOVE WELDS INCLUDING GEOMETRY, JOINT PREPARATION, DIMENSIONS, CLEANLINESS, TACKING, AND BACKING TYPE AND FIT	PERIODIC	PERIODIC
CONFIGURATION AND FINISH OF ACCESS HOLES	PERIODIC	PERIODIC
FIT-UP OF FILLET WELDS INCLUDING DIMENSIONS, CLEANLINESS AND TACKING	PERIODIC	PERIODIC
CHECK WELDING EQUIPMENT	PERIODIC	--
DURING WELDING		
USE OF QUALIFIED WELDERS	PERIODIC	PERIODIC
CONTROL AND HANDLING OF WELDING CONSUMABLES INCLUDING PACKAGING AND EXPOSURE CONTROL	PERIODIC	PERIODIC
NO WELDING OVER CRACKED TACK WELDS	PERIODIC	PERIODIC
ENVIRONMENTAL CONDITIONS INCLDUING WIND SPEED LIMITS, PRECIPITATION, AND TEMPERATURE	PERIODIC	PERIODIC
WPS FOLLOWED	PERIODIC	PERIODIC
WELDING TECHNIQUES	PERIODIC	PERIODIC
AFTER WELDING		
WELDS CLEANED	PERIODIC	PERIODIC
SIZE, LENGTH, AND LOCATION OF WELDS	CONTINUOUS	CONTINUOUS
WELDS MEET VISUAL ACCEPTANCE CRITERIA	CONTINUOUS	CONTINUOUS
ARC STRIKES	CONTINUOUS	CONTINUOUS
k-AREA	CONTINUOUS	CONTINUOUS
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	CONTINUOUS	CONTINUOUS
REPAIR ACTIVITIES	CONTINUOUS	CONTINUOUS
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINTS AND MEMBERS	CONTINUOUS	CONTINUOUS
PRIOR TO BOLTING		
MANUFACTURER'S CERTIFICATIONS AVAILABLEF OR FASTERNER MATERIALS	PERIODIC	CONTINUOUS
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	PERIODIC	PERIODIC
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOTH LENGTH)	PERIODIC	PERIODIC
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	PERIODIC	PERIODIC
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET REQUIREMENTS	PERIODIC	PERIODIC
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	CONTINUOUS	PERIODIC
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	PERIODIC	PERIODIC
DURING BOLTING		
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	PERIODIC	PERIODIC
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	PERIODIC	PERIODIC
FASTENER COMPONENET NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	PERIODIC	PERIODIC
FASTENERS ARE PRETENSIONS IN ACCORDANCE WITH THE RSCS SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	PERIODIC	PERIODIC
AFTER BOLTING		
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	CONTINUOUS	CONTINUOUS

SPECIAL INSPECTION NOTES:

1. SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF THE 2021 INTERNATIONAL BUILDING CODE (IBC) – REFERENCE SHALL BE MADE TO THE INTERNATIONAL BUILDING CODE INDICATED FOR ADDITIONAL REQUIREMENTS NOT PROVIDED BELOW. THE TABLE ON THIS SHEET IS NOT AN EXHAUSTIVE LIST AND MAY NOT INCLUDE ALL SPECIAL INSPECTIONS REQUIRED BY THE BUILDING CODE.
2. SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT APPROVED AGENCY EMPLOYED BY THE OWNER.
3. PRIOR TO THE START OF CONSTRUCTION, THE SPECIAL INSPECTORS SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING THE COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING OF THE SPECIAL INSPECTORS WHO WILL PERFORM THE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION.
4. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DESIGN DRAWINGS, SPECIFICATIONS, AND BUILDING CODE.
5. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OF RECORD, AND OTHER DESIGNATED PERSONS.
6. ANY DEFICIENCIES, IF NOT CORRECTED BY THE CONTRACTOR WITHIN A REASONABLE TIME, SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND ENGINEER OF RECORD PRIOR TO COMPLETION OF THAT PHASE OF WORK.
7. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT TO THE BUILDING OFFICIAL UPON COMPLETION OF ALL WORK.
8. CONTINUOUS INSPECTION IS ALWAYS REQUIRED DURING THE WORK UNLESS OTHERWISE SPECIFIED.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR APPROVED AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ANY WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL AT CONTRACTOR'S EXPENSE.

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

SCHEDULES - 3

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

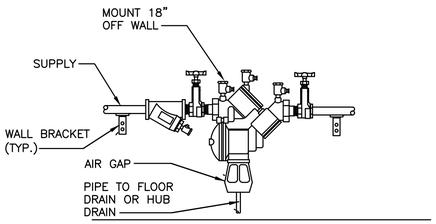
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PROJECT MGR. RYAN WOOD

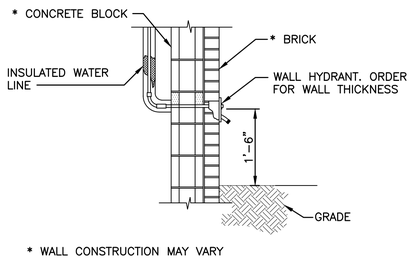
STRAND ASSOCIATES®

SHEET 97
99-AS6.03

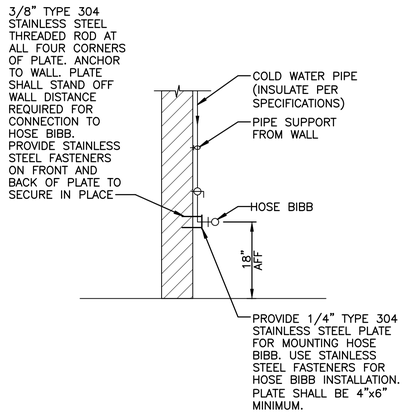
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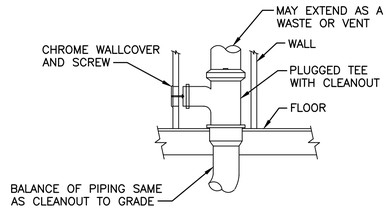
A 99-P5.01 REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER DETAIL
NO SCALE



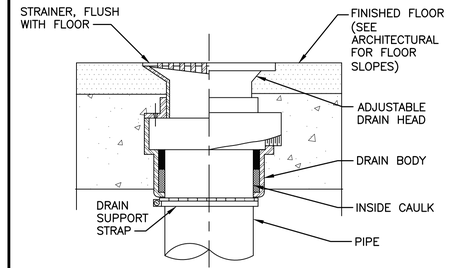
B 99-P5.01 HOSE BIBB
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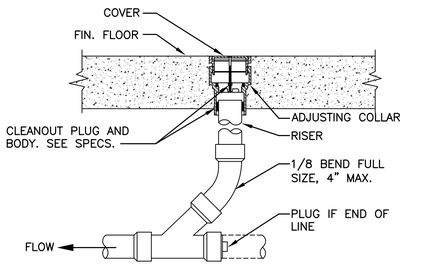
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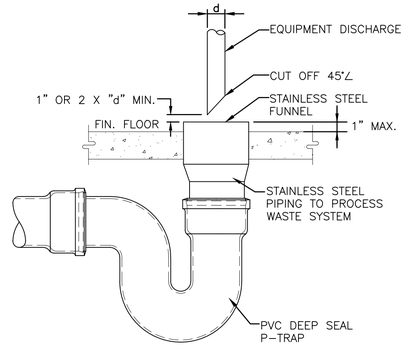
D 99-P5.01 WALL CLEANOUT
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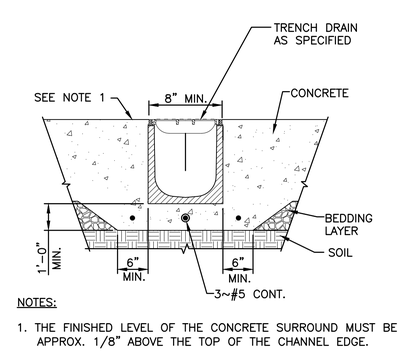
E 99-P5.01 FLOOR DRAIN – FD#1
NO SCALE



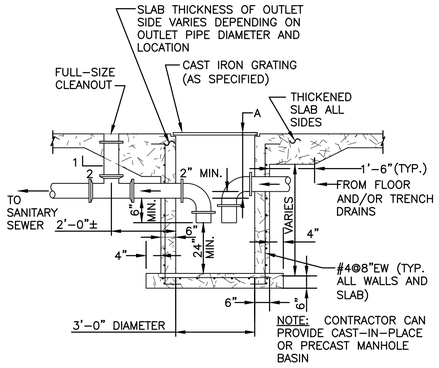
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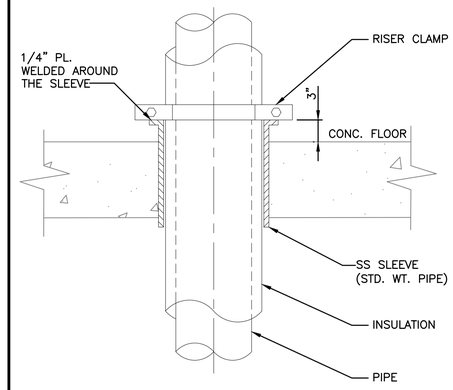
G 99-P5.01 HUB DRAIN (HD-1)
NO SCALE



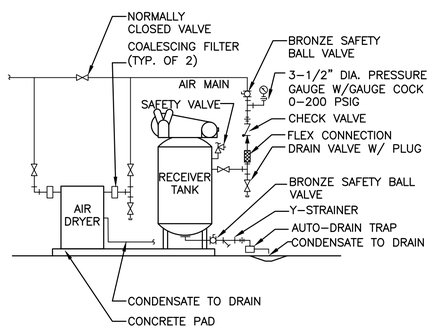
H 99-P5.01 TRENCH DRAIN
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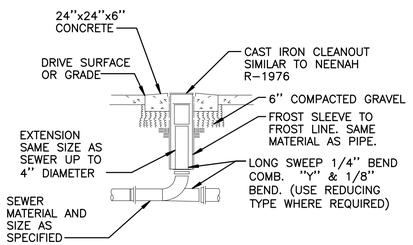
J 99-P5.01 CATCH BASIN
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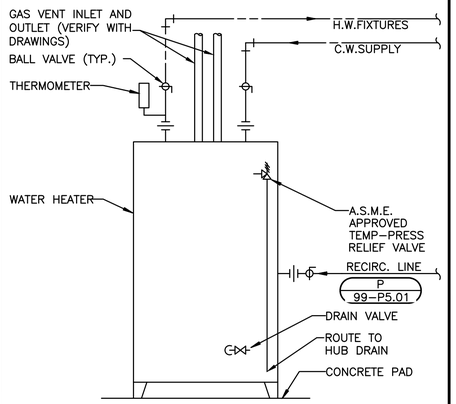
K 99-P5.01 PIPE SUPPORT ON CONCRETE FLOOR PENETRATION DETAIL
NO SCALE



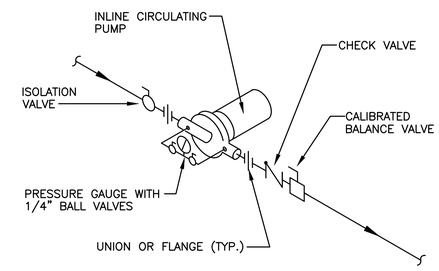
L 99-P5.01 AIR COMPRESSOR SCHEMATIC
NO SCALE



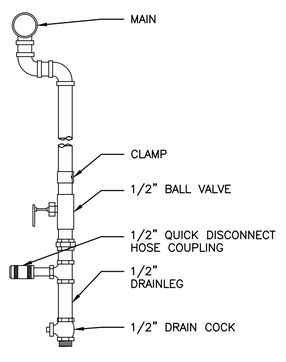
M 99-P5.01 EXTERIOR CLEANOUT
NO SCALE



N 99-P5.01 WATER HEATER DETAIL
NO SCALE



P 99-P5.01 INLINE CIRCULATING PUMP DETAIL
NO SCALE



Q 99-P5.01 AIR DROP
NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

DETAILS - 1

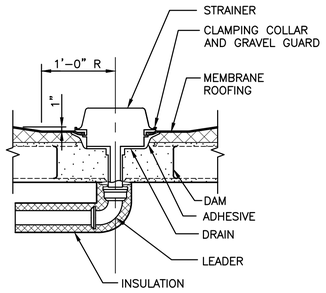
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

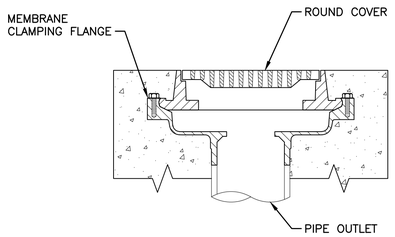
PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 98
99-P5.01



A 99-P5.02 ROOF DRAIN
NO SCALE



B 99-P5.02 FLOOR DRAIN
NO SCALE

NO.	REVISIONS	DATE:
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DETAILS - 2

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CITY OF ROCKFORD
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99-P5.02

PUMP SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	LOCATION	SERVICE	PUMP SECTION		ELECTRICAL							REMARKS
					FLOW (GPM)	HEAD (FT H20)	MOTOR POWER (HP)	MOTOR TYPE	VOLTAGE	PHASE	STARTER TYPE	STARTER BY	DISCONNECT BY	
HWP-90-01	BELL & GOSSETT	ECOCIRC 20-18	MEZZANINE	DOMESTIC HOT WATER	3	8.4	0.01	ECM	120 V	1	ECM	MANUFACTURER	DIVISION 26	

AIR COMPRESSOR SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	LOCATION	TYPE	ACFM (175 PSIG)	TANK CAPACITY (GAL)	PUMP MODEL	ELECTRICAL					WEIGHT (LB)	REMARKS
								MOTOR POWER (HP)	VOLTAGE	PHASE	STARTER BY	DISCONNECT BY		
AC-90-01	QUINCY	QT-7.5	MEZZANINE	SIMPLEX	24	80	QT1	7.5	208	3	MANUFACTURER	DIVISION 26	720	

DOMESTIC WATER HEATER SCHEDULE

UNIT NO.	LOCATION	A.O. SMITH MODEL NO.	INPUT (MBH)	OUTPUT (MBH)	AIR INTAKE (IN)	FLUE EXHAUST (IN)	TEMPERATURE RISE (F)	RECOVERY CAPACITY (GPH)	TANK CAPACITY (GAL)	ELECTRICAL			REMARKS
										VOLTAGE	PHASE	FLA	
WH-80-01	MEZZANINE	BSS-150	150	141	3	3	90	190	34	120	1	5	
WH-90-01	MEZZANINE	BTH-150	150	147	3	3	90	198	100	120	1	5	

AIR DRYER SCHEDULE

UNIT NO.	MODEL	LOCATION	SERVICE	MANUFACTURER	CFM (100 PSI)	TYPE	VOLTAGE	PHASE	REMARKS
AD-80-01	QED-21	MEZZANINE	EXISTING AC	QUINCY	21	REFRIGERANT	120	1	

PLUMBING EXPANSION TANK SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	SERVICE	TANK CAPACITY (GAL)	CONNECTION SIZE (IN)	WEIGHT (LB.)	REMARKS
ET-90-01	BELL AND GOSSETT	PT-25V	HOT WATER RECIRCULATION	10.3	3/4	23	

DATE: 07/24/2025

REVISIONS

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SCHEDULES

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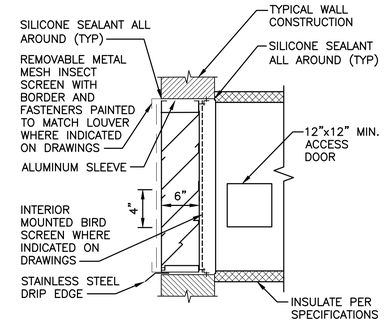
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1110.037

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RYAN WOOD

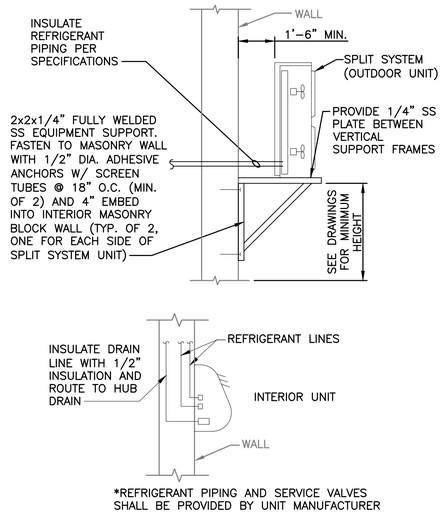
STRAND ASSOCIATES®

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100
99-P6.01

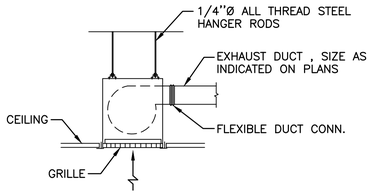
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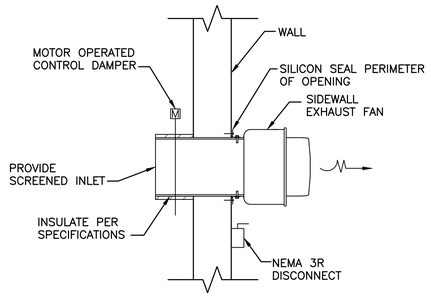
A 99-H5.01 WALL LOUVER AND DUCTWORK NO SCALE



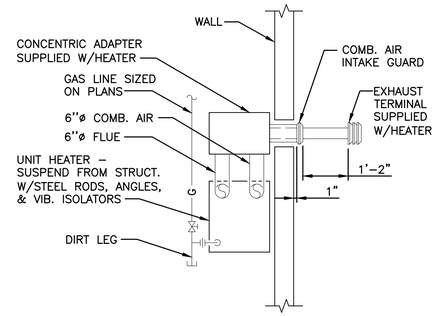
B 99-H5.01 SPLIT SYSTEM DETAIL NO SCALE



C 99-H5.01 CEILING FAN NO SCALE



D 99-H5.01 SIDEWALL EXHAUST FAN NO SCALE

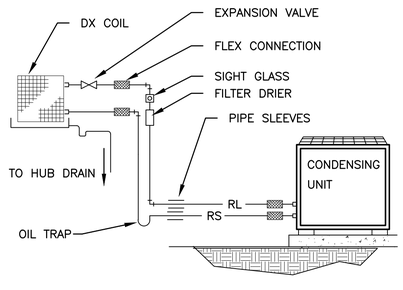


E 99-H5.01 GAS UNIT HEATER NO SCALE

F 99-H5.01 CIRCULATING FAN MOUNTING NO SCALE

TYPICAL ROUND AND RECTANGULAR DUCT PENETRATION THRU NON RATED FLOOR

G 99-H5.01 NO SCALE



H 99-H5.01 DX COOLING SCHEMATIC NO SCALE

GRAVITY ROOF VENTILATOR–METAL ROOF

J 99-H5.01 NO SCALE

INSULATED PIPE PENETRATION DETAIL THRU MASONRY WALL

K 99-H5.01 NO SCALE

L 99-H5.01 VAV BOX NO SCALE

M 99-H5.01 ELECTRIC DUCT HEATER DETAIL NO SCALE

N 99-H5.01 EXHAUST DUCT NO SCALE

DUCT PENETRATION AT INTERIOR FLOOR SLAB

P 99-H5.01 NO SCALE

NO.	REVISIONS	DATE:
-	ISSUED FOR BID	07/24/2025

DETAILS - 1

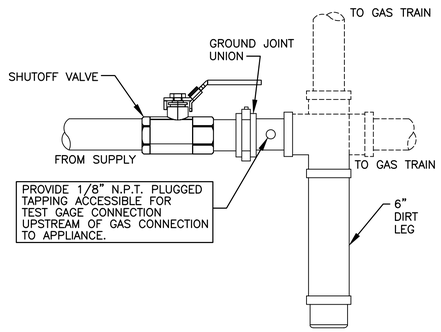
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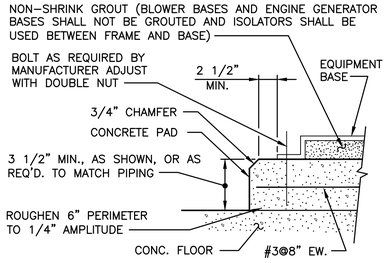
PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 101 99-H5.01



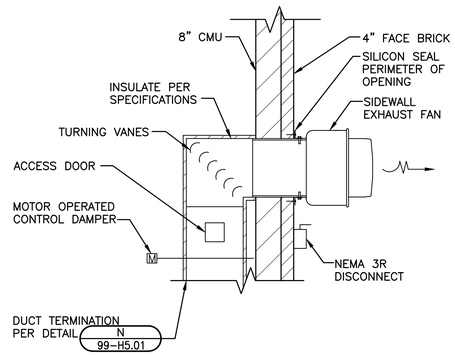
A 99-H5.02 NATURAL GAS CONNECTION
NO SCALE



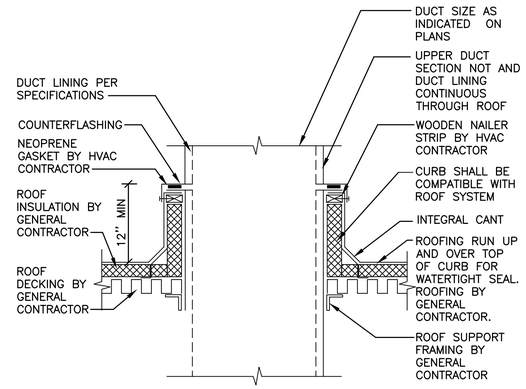
NOTES:

1. CONCRETE PAD BY CONTRACTOR SUPPLYING EQUIPMENT.
2. ANCHOR CONCRETE PAD TO FLOOR WITH 1/2" EXPANSION BOLTS @ 18" O.C., MINIMUM 4 PER PAD. IF CONCRETE PAD IS LESS THAN 10" HIGH, ANCHOR EQUIPMENT BASE DIRECTLY TO CONCRETE FLOOR.
3. APPLY BONDING AGENT TO FLOOR PRIOR TO PLACING CONCRETE PAD.

B 99-H5.02 CONCRETE EQUIPMENT PAD
NO SCALE



SIDEWALL EXHAUST FAN WITH DUCTWORK
C 99-H5.02 NO SCALE



TYPICAL DUCTWORK
D 99-H5.02 ROOF PENETRATION DETAIL
NO SCALE

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DETAILS - 2

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WINNEBAGO COUNTY, ILLINOIS

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PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 102 99-H5.02

MAKE UP AIR UNIT SCHEDULE

UNIT NO.	LOCATION	SERVICE	GREENHECK MODEL NO.	AIRFLOW (CFM)	EXT. STATIC PRESSURE (IN W.C.)	FILTER TYPE	NATURAL GAS HEATING SECTION							ELECTRICAL						OPERATING WEIGHT (LBS.)	REMARKS
							MAX. PRESSURE (PSI)	MIN. PRESSURE (PSI)	INPUT (MBH)	OUTPUT (MBH)	EAT (°F)	LAT (°F)	BURNER STAGES	MOTOR (HP)	VOLTAGE	PHASE	MCA	MOP	STARTER/DISCONNECT BY		
MAU-80-01	MEZZANINE	GARAGE	DGX-P122-H22	3,700	0.75	MERV 8	0.50	0.40	400	368	-6.0	85.9	MAX	2	208	3	10.1	15	MFR.	1,058	

FAN SCHEDULE

UNIT NO.	LOCATION	SERVICE	MANUFACTURER	MODEL NO.	AIRFLOW (CFM)	EXT. S.P. (IN. W.C.)	MOTOR SIZE (HP)	FAN TYPE	MOTOR TYPE	DRIVE	SOUND POWER (SONES)	ELECTRICAL				OPERATING WEIGHT (LBS.)	REMARKS
												VOLTAGE	PHASE	STARTER BY	DISCONNECT BY		
EF-80-01	SIDEWALL	MAU-80-01	GREENHECK	CUE-200	3,600	0.5	2	SIDEWALL	TEFC	DIRECT	19.5	208	3	MFR.	DIV 26	112	
EF-80-02	SIDEWALL	GARAGE	GREENHECK	CUE-080-VG	250	0.5	0.10	SIDEWALL	TENV	DIRECT	7.7	115	1	MFR.	DIV 26	37	
EF-80-03	CEILING	RESTROOM	GREENHECK	SP-A90	75	0.25	15 (W)	CABINET	ODP	DIRECT	0.9	115	1	MFR.	DIV 26	12	
EF-90-01	MEZZANINE	RESTROOM GROUP	GREENHECK	SQ-99-VG	665	0.75	0.75	INLINE	TENV	DIRECT	12.4	115	1	MFR.	DIV 26	47	
EF-90-02	CEILING	RESTROOM 125	GREENHECK	SP-A90	75	0.25	0.01	CEILING	ODP	DIRECT	–	115	1	MFR.	DIV 26	925	
EF-90-03	CEILING	WORKOUT ROOM	GREENHECK	SQ-97-VG	150	0.5	0.25	INLINE	TEFC	DIRECT	11.4	115	1	MFR.	DIV 26	4	

ELECTRIC VAV BOX SCHEDULE

UNIT NO.	LOCATION	ENVIROTEC MODEL NO.	MAX AIRFLOW (CFM)	MIN AIRFLOW (CFM)	AIR INLET SIZE (IN.)	AIR OUTLET SIZE (L"xW")	MAX AIR P.D. (IN. W.C.)	HEATING COIL				ELECTRICAL					OPERATING WEIGHT (LBS.)	REMARKS
								EAT (°F)	LAT (°F)	CAPACITY (kW)	CONTROL STAGES	VOLTAGE	PHASE	MCA	FLA	DISCONNECT BY		
VAV-90-01	LAB/CLEAN ROOM	SDR-10	1,100	220	10	11x13	0.25	65	110.1	9	SCR	208	3	31.23	25.0	MFR	78	
VAV-90-02	SERVER ROOM	SDR-08	700	140	8	9x11	0.25	65	110.1	5	SCR	208	3	17.35	13.9	MFR	71	
VAV-90-03	CONTROL ROOM	SDR-08	500	105	8	9x11	0.25	65	102.9	3	SCR	208	3	10.41	8.3	MFR	71	
VAV-90-04	SCADA ROOM	SDR-04	150	30	4	9x9	0.25	65	110.1	1	SCR	208	3	3.47	2.8	MFR	64	
VAV-90-05	OFFICE 141	SDR-08	850	170	8	9x11	0.25	65	102.2	5	SCR	208	3	17.35	13.9	MFR	71	
VAV-90-06	WORKOUT ROOM	SDR-10	1,150	230	10	11x13	0.25	65	98.0	6	SCR	208	3	20.82	16.7	MFR	78	
VAV-90-07	OFFICE 127	SDR-05	250	50	5	9x9	0.25	65	110.1	2.5	SCR	208	3	8.67	6.9	MFR	64	
VAV-90-08	OFFICE 126	SDR-05	250	50	5	9x9	0.25	65	110.1	2.5	SCR	208	3	8.67	6.9	MFR	64	
VAV-90-09	CONFERENCE ROOM	SDR-08	850	170	8	9x11	0.25	65	109.6	6	SCR	208	3	20.82	16.7	MFR	71	
VAV-90-10	KITCHENETTE	SDR-10	1,100	220	10	11x13	0.25	65	99.5	6	SCR	208	3	20.82	16.7	MFR	78	

RADIANT CEILING PANEL SCHEDULE

UNIT NO. RHP-	LOCATION	QMARK MODEL NO.	WIDTH (IN)	LENGTH (FT)	CAPACITY (W)	VOLTAGE (V)	MOUNTING TYPE	REMARKS
90-01	SHOWER	CP251F	24	24	250	120	T-BAR	

ELECTRIC HEATER SCHEDULE

UNIT NO.	LOCATION	Q-MARK MODEL NO.	CAPACITY (kW)	CAPACITY (BTU)	ELECTRICAL				REMARKS
					VOLTAGE	PHASE	FLA	DISCONNECT BY	
EWH-80-01	RESTROOM	CWH1101DSF	0.5	1,706	120	1	4.2	MANUFACTURER	
EWH-80-02	ELECTRICAL ROOM	CWH1202DSF	1.5	5,120	208	1	7.3	MANUFACTURER	
EUH-80-01	WORKSHOP	MUH05-81	5.0	17,000	208	3	14	MANUFACTURER	
EWH-90-01	VESTIBULE	CWH1208DSF	2.0	6,826	208	1	9.6	MANUFACTURER	
EWH-90-02	128 CORRIDOR	CWH1208DSF	2.0	6,826	208	1	9.6	MANUFACTURER	
EWH-90-03	CONTROL	CWH1202DSF	1.5	5,120	208	1	7.3	MANUFACTURER	
EWH-90-04	136 CORRIDOR	CWH1208DSF	1.0	3,413	208	1	4.8	MANUFACTURER	
EWH-90-05	MEN'S LOCKER	CWH1202DSF	1.5	5,120	208	1	7.3	MANUFACTURER	
EWH-90-06	MEN'S LOCKER	CWH1202DSF	1.5	5,120	208	1	7.3	MANUFACTURER	
EWH-90-07	WOMEN'S LOCKER	CWH1202DSF	1.5	5,120	208	1	7.3	MANUFACTURER	
EWH-90-08	WOMEN'S LOCKER	CWH1202DSF	1.5	5,120	208	1	7.3	MANUFACTURER	

HIGH VOLUME LOW SPEED FAN SCHEDULE

UNIT NO.	SERVICE	LOCATION	MANUFACTURER	MODEL NO.	DIAMETER	MOTOR SIZE (HP)	RPM	FAN TYPE	ELECTRICAL					OPERATING WEIGHT (LBS)	REMARKS
									VOLTAGE	PHASE	STARTER BY	BREAKER SIZE	DISCONNECT BY		
HVLS-80-01	GARAGE	GARAGE	BIG ASS FAN	PPX4-14	14	1.9	117	POWERFOIL PLUS WINGLET	208	3	MFR	15	DIV. 26	254	
HVLS-80-02	GARAGE	GARAGE	BIG ASS FAN	PPX4-14	14	1.9	117	POWERFOIL PLUS WINGLET	208	3	MFR	15	DIV. 26	254	

GAS FIRED UNIT HEATER SCHEDULE

UNIT NO.	LOCATION	MANUFACTURER	MODEL NO.	UNIT TYPE	FAN SECTION		NATURAL GAS HEATING SECTION				VENTING TYPE	ELECTRICAL				REMARKS
					SUPPLY AIR (CFM)	FAN (HP)	MAX. PRESSURE (PSI)	MIN. PRESSURE (PSI)	INPUT (MBH)	OUTPUT (MBH)		VOLTAGE	PHASE	FLA	DISCONNECT BY	
GUH-80-01	GARAGE	MODINE	HDS-75	SEPERATED	1,160	1/12	0.50	0.21	75	61.5	TYPE B	115	1	3.3	DIV. 26	(1)
GUH-80-02	GARAGE	MODINE	HDS-75	SEPERATED	1,160	1/12	0.50	0.21	75	61.5	TYPE B	115	1	3.3	DIV. 26	(1)

(1) PROVIDE UNIT HEATER WITH CONCENTRIC INTAKE AND EXHAUST KIT FROM MANUFACTURER.

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RYAN WOOD

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99-H6.01

AIR HANDLING UNIT SCHEDULE

UNIT NO. AHU–	LOCATION	SERVICE	DAIKIN MODEL NO.	FAN SECTIONS								FILTER TYPE	COOLING COIL SECTION				ELECTRICAL					OPERATING WEIGHT (LBS.)	REMARKS
				MAXIMUM SUPPLY AIR (CFM)	MINIMUM OUTSIDE AIR (CFM)	SUPPLY FAN			RETURN/EXHAUST FAN				SENSIBLE CAPACITY (BTU/HR)	TOTAL CAPACITY (BTU/HR)	EAT DB/WB (°F)	LAT DB/WB (°F)	VOLTAGE	PHASE	STARTER TYPE	STARTER BY	DISCONNECT BY		
						EXT. STATIC (IN. OF W.C.)	MOTOR SIZE (HP)	FAN TYPE	EXT. STATIC (IN. OF W.C.)	MOTOR SIZE (HP)	FAN TYPE												
90–01	MEZZANINE	ADMIN. HVAC	CAH018GDDM	8,000	610	1.5	7.5	CENTRIFUGAL	0.75	3	CENTRIFUGAL	MERV 13	184,139	240,192	76.1/63.3	54.9/52.9	480	3	VFD	DIV. 26	DIV. 26	4,442	

AIR COOLED CONDENSING UNIT SCHEDULE

UNIT NO. ACCU–	LOCATION	SERVICE	AAON MODEL NO.	NOMINAL CAPACITY (TONS)	COMPRESSORS		REFRIGERANT					ELECTRICAL						OPERATING WEIGHT (LBS.)	REMARKS
					NO. OF COMPRESSORS	COMPRESSOR TYPE	NO. OF CIRCUITS	REFRIGERANT	OPERATING CHARGE (OZ)	SUCTION LINE SIZE (IN.)	LIQUID LINE SIZE (IN.)	VOLTAGE	PHASE	FLA	MCA	STARTER BY	DISCONNECT BY		
90–01	OUTSIDE	AHU–90–01	CFA–020–C	20	2	VARIABLE SCROLL	2	R–454B	217	1.38	0.63	480	3	37	41	MFR	DIV. 26	1,423	

SPLIT SYSTEM SCHEDULE

UNIT NO.	LOCATION	SERVICE	DAIKIN MODEL NO.		COOLING COIL SECTION			ELECTRICAL					OPERATING WEIGHT (LBS.)	REMARKS
			(INDOOR UNIT)	(OUTDOOR UNIT)	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	EAT DB/WB (°F)	VOLTAGE	PHASE	MCA	BREAKER SIZE	DISCONNECT BY		
SS–80–01	WORKSHOP	WORKSHOP	FTKF09AXVJU	RKF09AXVJU	8.3	9	75/62.4	208	1	9.1	15	DIV. 26	19.80	

WALL LOUVER SCHEDULE

UNIT NO.	LOCATION	SERVICE	GREENHECK MODEL NO.	AIRFLOW (CFM)	WIDTH (IN)	HEIGHT (IN)	BLADE DEPTH (IN)	MAX. APD (IN WG)	MAX. FACE VEL. (FPM)	FREE AREA (SQ. FT.)	SCREEN		REMARKS
											TYPE	LOCATION	
L–80–01	MEZZANINE	MAU–80–01	ESD–635	3,700	40	40	6	0.05	581	6.37	INSECT	EXTERIOR	

ELECTRIC DUCT HEATER SCHEDULE

UNIT NO. EDH–	SERVICE	THERMOLEC MODEL NO.	CAPACITY (KW)	AIRFLOW (CFM)	EAT (°F)	LAT (°F)	VOLTAGE	PHASE	FLA	DISCONNECT BY	REMARKS
90–01	MEN'S LOCKER ROOM	MRFC–40LS–1002	0.6	260	65	72	208	3	1.7	MFR.	
90–02	WOMEN'S LOCKER ROOM	MRFC–40LS–1002	0.5	230	65	72	208	3	1.4	MFR.	

DESIGN CONDITIONS

APPLICABLE BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE		SUMMER EXTERIOR: 90.7°F DB / 74.3°F WB WINTER EXTERIOR: –6.2°F DB		
OCCUPANCY TYPE	VENTILATION	SUMMER INTERIOR (DB/WB)	WINTER INTERIOR (DB)	REMARKS
STRUCTURE 80 – MAINTENANCE GARAGE				
GARAGE	0.05 CFM/SF CONTINUOUS 0.75 CFM/SF INTERMITTENT	AMBIENT	55	
RESTROOM	75 CFM/FIXTURE	AMBIENT	65	
STRUCTURE 90 – MAINTENANCE GARAGE				
OFFICES	5 CFM/PERSON 0.06 CFM/SF	75/62.5	72	
LAB/CLEAN ROOM	5 CFM/PERSON 0.06 CFM/SF	75/62.5	72	
WORKOUT ROOM	20 CFM/PERSON 0.06 CFM/SF	75/62.5	72	
LOCKER ROOMS	75 CFM/FIXTURE	75/62.5	72	
RESTROOM	75 CFM/FIXTURE	75/62.5	72	

INDUSTRIAL CEILING FAN SCHEDULE

UNIT NO. ICF	SERVICE	TPI INDUSTRIAL MODEL NO.	AIRFLOW (CFM)	MOTOR (RPM)	FAN TYPE	ELECTRICAL		REMARKS
						VOLTAGE	PHASE	
90–01	WORKOUT ROOM	E–56CF	7,775	290	REVERSIBLE	120	1	(1)

(1) PROVIDE 1 MODEL KBWC–15SK WALL MOUNTED CONTROL SWITCH.

GRAVITY ROOF VENTILATOR SCHEDULE

UNIT NO. GRV–	LOCATION	SERVICE	GREENHECH MODEL NO.	THROAT WIDTH	THROAT LENGTH	AIRFLOW (CFM)	STATIC PRESSURE (IN W.C.)	THROAT VELOCITY (FPM)	THROAT AREA (SQ. FT.)	OVERALL HEIGHT (IN.)	REMARKS
90–01	ROOF	AHU–90–01	FGR–34x68	34	68	8,000	0.034	498	16.06	19	
90–02	ROOF	AHU–90–01	FGR–34x68	34	68	8,000	0.034	498	16.06	19	
90–03	ROOF	EF–90–01	FGR–14x14	14	14	665	0.033	489	1.36	16	

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

SCHEDULES - 2

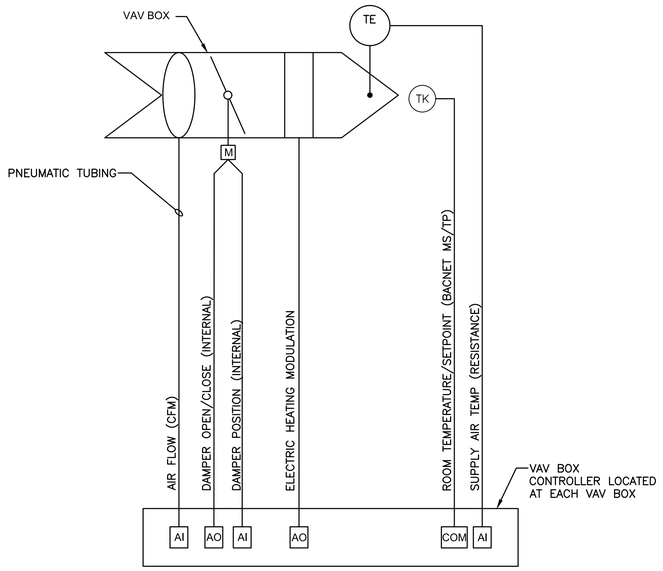
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO.
1110.037

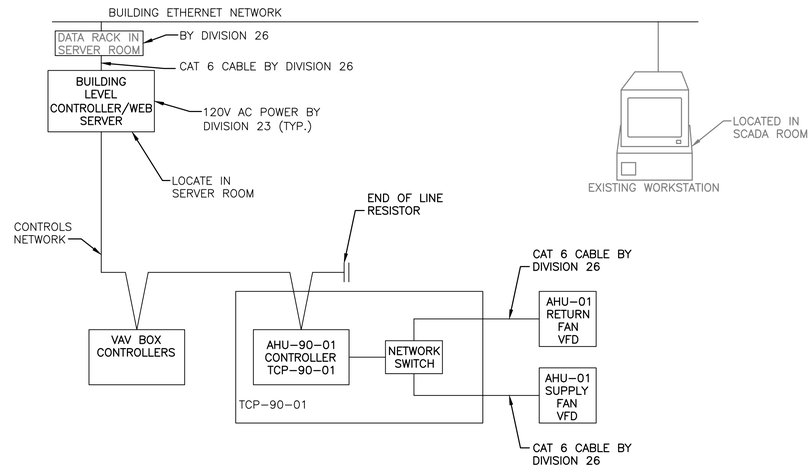
PROJECT MGR.
RYAN WOOD

STRAND ASSOCIATES®

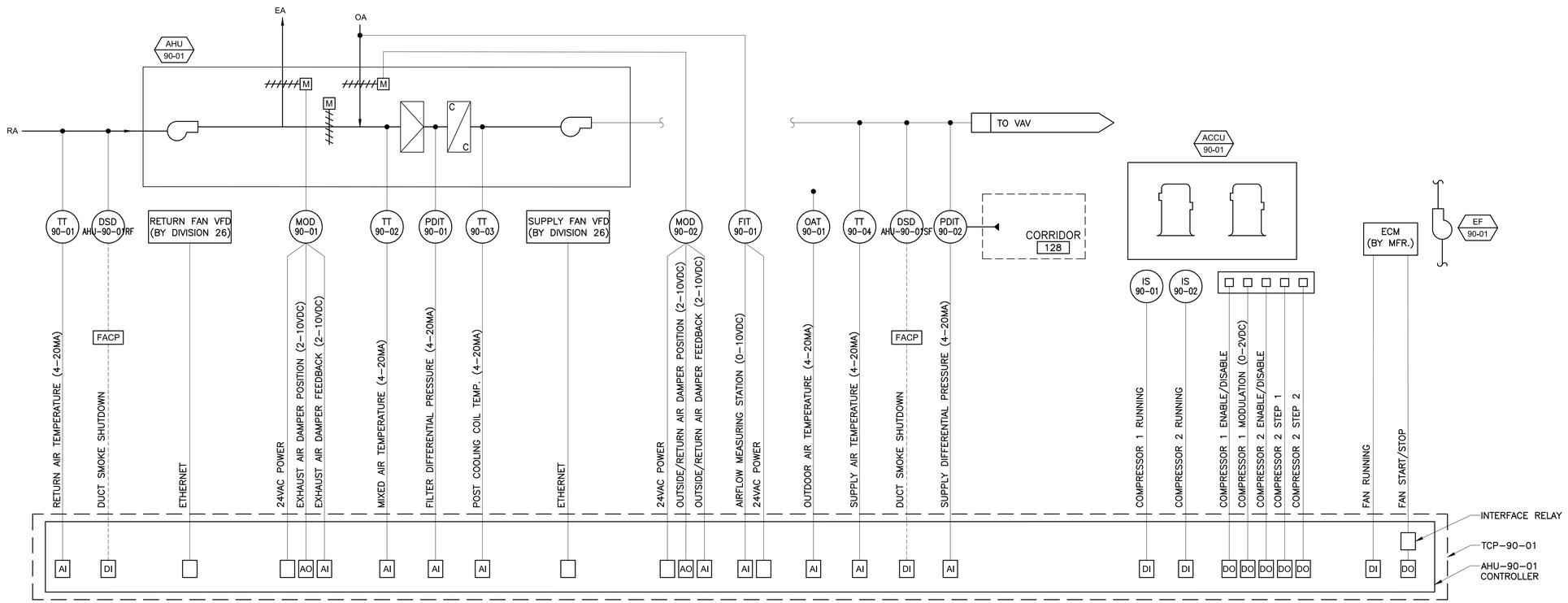
SHEET
104
99-H6.02



VAV BOX (TYP. OF 10)
NO SCALE



TEMPERATURE CONTROL SYSTEM RISER
NO SCALE



AHU-90-01 CONTROL SCHEMATIC
NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

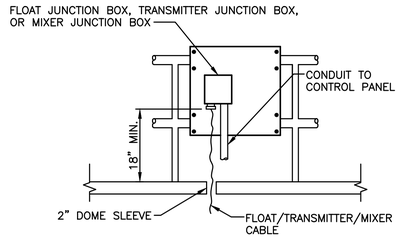
CONTROLS

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
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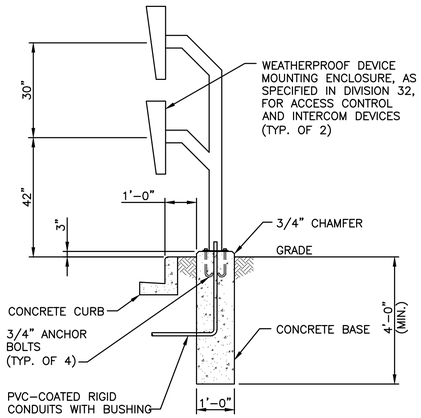
JOB NO. 1110.037
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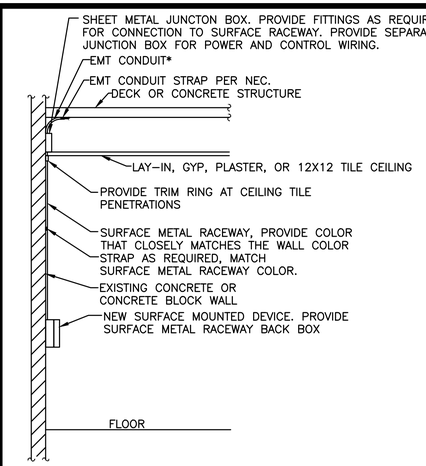
SHEET 105
99-H7.01



A 99-E5.01 JUNCTION BOX DISCONNECT TERMINATION
NO SCALE

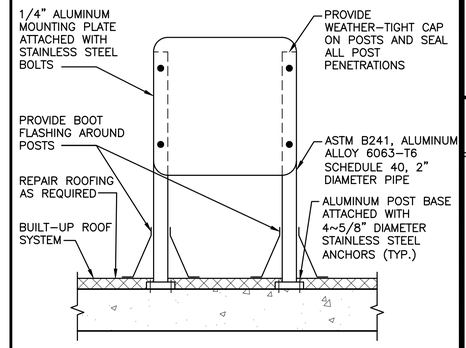


B 99-E5.01 GOOSENECK MOUNTING STAND
NO SCALE



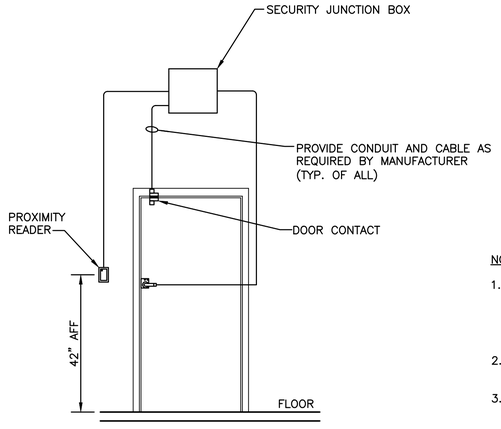
** ** SURFACE MOUNTED DEVICE
NO SCALE

* ALL LOW-VOLTAGE WIRING SHALL BE RUN IN FREE AIR ABOVE SUSPENDED CEILING AS SPECIFIED IN DIVISION 15.



D 99-E5.01 ROOF CONTROL STATION MOUNT
NO SCALE

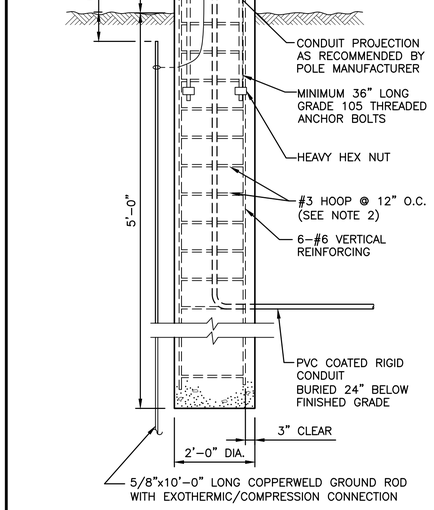
PLAN VIEW



NOTES:

1. ALL CABLES SHALL BE INSTALLED IN CONDUIT TO JUNCTION BOX ABOVE DOOR AND TO CARD ACCESS CONTROLLER. CABLING PROVIDED BY OWNER. CONDUIT BY DIVISION 26.
2. COORDINATE WITH OWNERS IT DEPARTMENT FOR ALL REQUIREMENTS.
3. OWNER FURNISHED PROXIMITY READER.

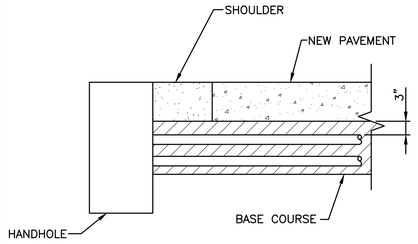
E 99-E5.01 ACCESS CONTROL INSTALLATION DIAGRAM
NO SCALE



NOTES:

1. TOP 36" SHALL BE FORMED.
2. PROVIDE 3~#3 TIES @ 3" O.C. AT TOP OF POLE BASE.

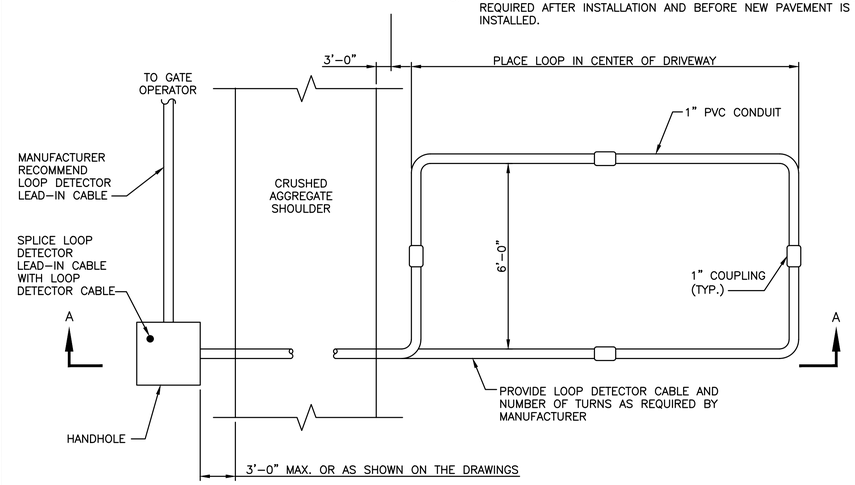
F 99-E5.01 LIGHT POLE BASE
NO SCALE



SECTION A-A

NOTES:

1. SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1, OR EQUAL. NON-INSULATED BUTT SPLICES TO FIT STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.
2. MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.
3. AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE, AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO ENGINEER FOR REVIEW.
4. LOOP DETECTOR LEAD-IN CABLE SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE.
5. THE LOOP WIRE IN THE HANDHOLE SHALL BE HAND TWISTED AT LEAST 2 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.
6. SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN HANDHOLES AT THE SIDE OF THE PAVEMENT.
7. THE LOOP WIRE SHALL BE INSTALLED FROM THE HANDHOLE THROUGH THE LOOP CONDUIT. BACK TO THE HANDHOLE AND BE INSTALLED IN ONE NON-SPLICED CONTINUOUS LENGTH.
8. PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.



G 99-E5.01 LOOP DETECTOR INSTALLATION
NO SCALE

NO.	REVISIONS	DATE:
-	ISSUED FOR BID	07/24/2025

DETAILS - 1

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

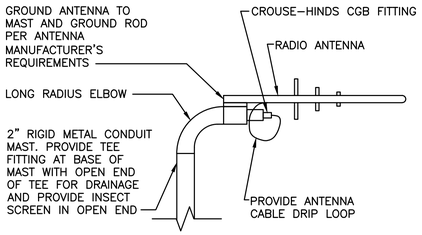
JOB NO. 1110.037

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SHEET 106 99-E5.01

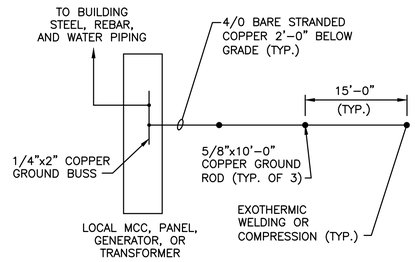
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NOTES:

1. VERIFY LOCATION OF ANTENNA AND MOUNTING REQUIREMENTS AT EACH SITE.
2. PROVIDE A DEDICATED GROUND ROD BONDED TO CONDUIT MAST WITH #6 GROUND CONDUCTOR IN 3/4" PVC CONDUIT WHERE ROUTED ABOVE GRADE.

A 99-E5.02 ANTENNA TERMINATION
NO SCALE



B 99-E5.02 GROUND GRID
NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

DETAILS - 2

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

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SHEET 107 99-E5.02

TCP-90-01 CONDUIT AND WIRING SCHEDULE

CONDUIT DESIGNATION	ORIGIN	TERMINATION	CONDUIT SIZE	CONDUCTORS*
IS-90-01 STATUS	TCP-90-01	IS-90-01	3/4"	2~#14
COMPRESSOR 1 ENABLE/DISABLE	TCP-90-01	ACCU-90-01	3/4"	2~#14
COMPRESSOR 1 MODULATION	TCP-90-01	ACCU-90-01	3/4"	2~#14
IS-90-02 STATUS	TCP-90-01	IS-90-02	3/4"	2~#14
COMPRESSOR 2 ENABLE/DISABLE	TCP-90-01	ACCU-90-01	3/4"	2~#14
COMPRESSOR 2 STEP 1	TCP-90-01	ACCU-90-01	3/4"	2~#14
COMPRESSOR 2 STEP 2	TCP-90-01	ACCU-90-01	3/4"	2~#14
PDIT-90-01 PRESSURE SIGNAL	TCP-90-01	PDIT-90-01	3/4"	2~#14
PDIT-90-02 PRESSURE SIGNAL	TCP-90-01	PDIT-90-02	3/4"	2~#14
TT-90-01 AIR RETURN TEMPERATURE SIGNAL	TCP-90-01	TE-90-01	3/4"	SH.PR.
TT-90-02 MIXED AIR TEMPERATURE SIGNAL	TCP-90-01	TE-90-02	3/4"	SH.PR.
TT-90-03 COIL TEMPERATURE SIGNAL	TCP-90-01	TE-90-03	3/4"	SH.PR.
TT-90-04 SUPPLY AIR TEMPERATURE SIGNAL	TCP-90-01	TE-90-04	3/4"	SH.PR.
FIT-90-01 24VAC POWER	TCP-90-01	FIT-90-01	3/4"	2~#14
FIT-90-01 AIRFLOW MEASURING STATION	TCP-90-01	FIT-90-01	3/4"	SH.PR.
MOD-90-01 24VAC POWER	TCP-90-01	MOD-90-01	3/4"	2~#14
MOD-90-01 POSITION	TCP-90-01	MOD-90-01	3/4"	SH.PR.
MOD-90-01 FEEDBACK	TCP-90-01	MOD-90-01	3/4"	SH.PR.
MOD-90-02 24VAC POWER	TCP-90-01	MOD-90-02	3/4"	2~#14
MOD-90-02 POSITION	TCP-90-01	MOD-90-02	3/4"	SH.PR.
MOD-90-02 FEEDBACK	TCP-90-01	MOD-90-02	3/4"	SH.PR.
OAT-90-01 AIR TEMPERATURE	TCP-90-01	OAT-90-01	3/4"	SH.PR.
DSD-AHU-90-01SF SHUTDOWN SIGNAL	FACP-90	AHU-90-01	3/4"	2~#16 (BY DIV.28)
DSD-AHU-90-01RF SHUTDOWN SIGNAL	FACP-90	AHU-90-01	3/4"	2~#16 (BY DIV.28)
EF-90-01 ECM START/STOP	TCP-90-01	EF-90-01	3/4"	3~#14
EF-90-01 ECM RUNNING	TCP-90-01	EF-90-01	3/4"	3~#14
AHU-90-01SF VFD	TCP-90-01	SF-90-01	3/4"	CAT6
AHU-90-01RF VFD	TCP-90-01	RF-90-01	3/4"	CAT6

*Provide ground conductor sized per the NEC.

VFD SCHEDULE

EQUIPMENT AND NAMEPLATE TITLES			EQUIPMENT LOCATION	PANEL	MOTOR INFORMATION			MOTOR STARTER INFORMATION				CONTROLS AND INTERLOCKS	CONDUIT AND WIRE ** 1ST ROW(S)=CONTROL* LAST ROW=POWER	REMARKS ***
EQUIPMENT NUMBER	FIRST LINE SECOND LINE WHEN EQUIPMENT NUMBER IS INDICATED	SECOND LINE THIRD LINE WHEN EQUIPMENT NUMBER IS INDICATED			HP (OR KW)	VOLTS	F.L.A.	SIZE	TYPE	DISCONNECT TYPE	DISCONNECT AMPS	CONTROL DEVICES	DESCRIPTION		
AHU-90-01SF	AIR HANDLING UNIT	SUPPLY FAN	MEZZANINE	WALL MOUNTED	7.5	480	9.8	-	VFD ND	TM	20	-	-	3~#12,3/4"C.	SEE SPECIFICATION SECTION 23 09 23 FOR REQUIRED CONTROLS
AHU-90-01RF	AIR HANDLING UNIT	RETURN FAN	MEZZANINE	WALL MOUNTED	3	480	4.2	-	VFD ND	TM	15	-	-	3~#12,3/4"C.	SEE SPECIFICATION SECTION 23 09 23 FOR REQUIRED CONTROLS

VAV CONTROLS CONDUIT AND WIRING SCHEDULE

CONDUIT DESIGNATION	ORIGIN	TERMINATION	CONDUIT SIZE	CONDUCTORS*
AIR FLOW	VAV BOX CONTROLLER	VAV BOX	3/4"	SH.PR
DAMPER OPEN/CLOSE	VAV BOX CONTROLLER	VAV BOX	3/4"	SH.PR
DAMPER POSITION	VAV BOX CONTROLLER	VAV BOX	3/4"	SH.PR
ELECTRIC HEATING MODULATION	VAV BOX CONTROLLER	VAV BOX	3/4"	SH.PR
ROOM TEMPERATURE/SETPOINT	VAV BOX CONTROLLER	THERMOSTAT	3/4"	CAT6
SUPPLY AIR TEMP	VAV BOX CONTROLLER	TEMPERATURE ELEMENT	3/4"	SH.PR
CONTROLS NETWORK	VAV BOX CONTROLLER	BUILDING WEB SERVER	3/4"	CAT6

*Provide ground conductor sized per the NEC.

VAV BOX CONDUIT AND WIRING SCHEDULE

CONDUIT DESIGNATION	ORIGIN	TERMINATION	CONDUIT SIZE	CONDUCTORS*
VAV-90-01 208VAC POWER	PANEL B	VAV-90-01	3/4"	3~#10
VAV-90-02 208VAC POWER	PANEL B1	VAV-90-02	3/4"	3~#12
VAV-90-03 208VAC POWER	PANEL B1	VAV-90-03	3/4"	3~#12
VAV-90-04 208VAC POWER	PANEL B1	VAV-90-04	3/4"	3~#12
VAV-90-05 208VAC POWER	PANEL B1	VAV-90-05	3/4"	3~#10
VAV-90-06 208VAC POWER	PANEL B1	VAV-90-06	3/4"	3~#10
VAV-90-07 208VAC POWER	PANEL B1	VAV-90-07	3/4"	3~#12
VAV-90-08 208VAC POWER	PANEL B1	VAV-90-08	3/4"	3~#12
VAV-90-09 208VAC POWER	PANEL B1	VAV-90-09	3/4"	3~#12
VAV-90-10 208VAC POWER	PANEL B1	VAV-90-10	3/4"	3~#12

*Provide ground conductor sized per the NEC.

480V POWER PANEL EXISTING

Service: 480, 3ø, 3W — Enclosure: NEMA 1 — Mounting: Surface
Main Breaker: 60A — Main Bus: Copper
Location: GARAGE — SCIC: 10 kAIC

Room Number/Description	Amps	Poles	Ckt. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt. #	Poles	Amps	Room Number/Description
MAIN**	60	3	1	0			2500			2			
			3		0			2500		4	3	40	TRANSFORMER**
			5			0			2500	6			
SPACE	-	3	7	-			1000			8			
			9		-			1000		10	3	20	COMPRESSOR*
			11			-			1000	12			
SPACE	-	3	13	-			500			14			
			15		-			500		16	3	20	FAN*
			17			-			500	18			
Total Load per Phase per Side (VA)				0	0	0	4000	4000	4000				

Total Load Phase A (VA)	4000	VA	*EQUIPMENT SHALL BE REMOVED, BREAKER SHALL REMAIN	Total Connected Load	33	A
Total Load Phase B (VA)	4000	VA		Total Connected Load + 25%	42	A
Total Load Phase C (VA)	4000	VA	**EQUIPMENT SHALL BE REMOVED, BREAKERS SHALL BE REPLACED	Spare 25%	10	A
Total Connected Load (VA)	12000	VA		Feeder Load	52	A

480V POWER PANEL PROPOSED

Service: 480, 3ø, 3W — Enclosure: NEMA 1 — Mounting: Surface
Main Breaker: 100A — Main Bus: Copper
Location: MEZZANINE — SCIC: 10 kAIC

Room Number/Description	Amps	Poles	Ckt. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt. #	Poles	Amps	Room Number/Description
			1	0			5333			2			
MAIN*	100	3	3		0			5333		4	3	70	ACCU-90-01*
			5			0			5333	6			
SPACE	-	3	7	-			1955			8			
			9		-			1955		10	3	20	SF-90-01**
			11			-			1956	12			
SPACE	-	3	13	-			850			14			
			15		-			850		16	3	20	RF-90-01**
			17			-			850	18			
Total Load per Phase per Side (VA)				0	0	0	8138	8138	8139				

Total Load Phase A (VA)	8138	VA	NEW LOAD ON NEW BREAKER*	Total Connected Load	68	A
Total Load Phase B (VA)	8138	VA	NEW LOAD ON EXISTING BREAKER**	Total Connected Load + 25%	85	A
Total Load Phase C (VA)	8139	VA		Spare 18%	15	A
Total Connected Load (VA)	24415	VA		Feeder Load	100	A

LIGHTING PANEL LP-80

Service: 120/208V, 3ø, 4W — Enclosure: NEMA 1 — Mounting: Surface
Main Breaker: 200A MCB, SE-Rated — Main Bus: Copper
Location: Maintanence Garage — SCIC: 22 kAIC

Room Number/Description	Amps	Poles	Ckt. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt. #	Poles	Amps	Room Number/Description
LIGHTING - SITE	20	1	1	1560			1260			2	1	20	RECEPTACLES - GARAGE AND MEZZANINE
LIGHTING - ELECTRICAL ROOM, MEZZANINE, AND GARAGE	20	1	3		876			1260		4	1	20	RECEPTACLES - GARAGE AND MEZZANINE
LIGHTING - GARAGE	20	1	5			612			1080	6	1	20	RECEPTACLES - MEZZANINE, WORK SHOP, AND RESTROOM
LIGHTING - WORK SHOP, RESTROOM, AND EXTERIOR	20	1	7	915			900			8	1	20	RECEPTACLES - WORKSHOP AND ELECTRICAL ROOM
FIRE ALARM CONTROL PANEL * (FACP-80)	20	1	9		1000			180		10	1	20	RECEPTACLE - EXTERIOR
GARAGE FAN (HVLS-80-01)	15	3	11			408			800	12	1	20	GAS UNIT HEATERS - GARAGE (GUH-80-01 AND GUH-80-02)
			13	408			504			14	1	20	WALL HEATER - RESTROOM (EWH-80-01)
			15		408			760		16	2	20	WALL HEATER - ELECTRICAL ROOM (EWH-80-02)
GARAGE FAN (HVLS-80-02)	15	3	17			408			760	18			
			19	408			1680			20	3	20	UNIT HEATER - WORKSHOP (EUH-80-01)
			21		408			1680		22			
			23			300			1680	24			
OVERHEAD DOOR (80101C)	15	3	25	300			600			26	1	20	WATER HEATER (WH-80-01)
			27		300			408		28			
			29			300			408	30	3	20	EXHAUST FAN - GARAGE (EF-80-01)
OVERHEAD DOOR (80101D)	15	3	31	300			408			32			
			33		300			132		34	1	20	EXHAUST FAN - GARAGE (EF-80-02)
MAKE-UP AIR UNIT - MEZANNINE (MAU-80-01)	15	3	35			1212			20	36	1	20	EXHAUST FAN - RESTROOM (EF-80-03)
			37	1212			1935			38	2	30	AIR COMPRESSOR
			39		1212			1935		40			
AD-80-01	15	1	41			178			180	42	1	20	NETWORK CABINET
SPD	30	3	43	0			950			44	2	15	SPLIT SYSTEM (SS-80-01)
			45		0			950		46			
			47			0			0	48	1	20	SPARE
ACCESS CONTROL PANEL	20	1	49	500			0			50	1	20	SPARE
WEST GATE OPERATOR	20	1	51		1920			0		52	1	20	SPARE
EAST GATE OPERATOR	20	1	53			1920			0	54	1	20	SPARE
SPARE	20	1	55	0			0			56	1	20	SPARE
SPARE	20	1	57		0			0		58	1	20	SPARE
SPARE	20	1	59			0			0	60	1	20	SPARE
SPARE	20	1	61	0			0			62	1	20	SPARE
SPARE	20	1	63		0			0		64	1	20	SPARE
SPARE	20	1	65			0			0	66	1	20	SPARE
SPARE	20	1	67	0			0			56	1	20	SPARE
SPARE	20	1	69		0			0		58	1	20	SPARE
SPARE	20	1	71			0			0	60	1	20	SPARE
Total Load per Phase per Side (VA)				5603	6424	5338	8237	7305	4928				

Total Load Phase A (VA)	13840	VA	* CIRCUIT BREAKER SHALL BE RED.	Total Connected Load	105	A
Total Load Phase B (VA)	13729	VA		Total Connected Load + 25%	131	A
Total Load Phase C (VA)	10266	VA		Spare 25%	33	A
Total Connected Load (VA)	37835	VA		Feeder Load	164	A

PANEL A1 PROPOSED

Service: 120/208, 3ø, 4W — Enclosure: NEMA 1 — Mounting: Surface
Main Breaker: 100A — Main Bus: Copper
Location: UPS ROOM — SCIC: 10 kAIC

Room Number/Description	Amps	Poles	Ckt. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt. #	Poles	Amps	Room Number/Description
FUME HOOD/GAS VALVE	15	1	1	150			500			2	1	15	SPLIT UNIT A/C
LIGHTING LAB	15	1	3		200			500		4	1	15	INCUBATION OVEN
AUTOCLAVE	35	3	5			800			500	6	1	15	STERILIZATION OVEN
			7	800			500			8	1	15	REFRIGERATOR
			9		800			180		10	3	20	PLUGMOLD - CLEAN RM
PLUGMOLD-LAB	20	1	11			180			180	12	3	20	PLUGMOLD - CLEAN RM
PLUGMOLD-LAB	20	1	13	180			500			14	3	20	REFRIGERATOR
LAB ISLAND RECPT.	20	1	15		180			250		16	1	20	EXHAUST FAN
LAB ISLAND RECPT.	15	1	17			180			500	18	**1**	**20**	**CORRIDOR 128, 125,133,144***
UPS AND VESTIBULE LIGHTS*	**20**	**1**	19	300			500			20	**1**	**20**	**WORKOUT***
OFFICE LIGHTS*	**20**	**1**	21		360			400		22	**1**	**20**	**CORRIDOR 136, SHOWER, STG***
CONFERENCE AND KITCHEN*	**20**	**1**	23			675			800	24	**1**	**20**	**LOCKER ROOM LIGHTS***
NORTH UPS LIGHTS	**20**	**1**	25	450			320			26	**1**	**20**	**SOUTH UPS LIGHTS**
SPACE	-	**1**	27		-			-		28	**1**	-	**SPACE**
SPACE	-	**1**	29			-			-	30	**1**	-	**SPACE**
Total Load per Phase per Side (VA)				1880	1540	1835	2320	1330	1980				

Total Load Phase A (VA)	4200	VA	*NEW LOAD ON NEW BREAKER	Total Connected Load	30	A
Total Load Phase B (VA)	2870	VA		Total Connected Load + 25%	38	A
Total Load Phase C (VA)	3815	VA		Spare 25%	9	A
Total Connected Load (VA)	10885	VA		Feeder Load	47	A

FIXTURE SCHEDULE

Fixture Type	Manufacturer(s)	Model Number	Mounting	Remarks
A	AEL	ATB2-P601-MVOLT-R2-BAA-SH	POLE	PROVIDE SQUARE ALUMINUM POLE MODEL SSA20D4-4-**, AS MANUFACTURED BY HAPCO, WHERE SHOWN ON THE DRAWINGS. POLE COLOR SHALL MATCH LIGHT FIXTURE.
B	LITHONIA	CPHB-18000LM-HEF-GCL-WD-MVOLT-GZ10-40K-80CRI-BAA	SURFACE	
C	HOLOPHANE	EMS-L48-6000LM-IMACD-WD-MVOLT-40K-80CRI-BAA	SURFACE	
D	FOCAL POINT	FEQ2-22-AC-3000L-4000K-1C-UNV-SD5-WH	RECESSED	ADD BABA COMPLAINT TO PART NUMBER, PROVIDE MOUNTING HARDWARE TO MATCH CEILING GRID STYLE
E1	FOCAL POINT	FEQ2-24-AC-4000L-4000K-1C-UNV-SD5-WH	RECESSED	ADD BABA COMPLAINT TO PART NUMBER, PROVIDE MOUNTING HARDWARE TO MATCH CEILING GRID STYLE
E2	FOCAL POINT	FEQ2-24-AC-5000L-4000K-1C-UNV-SD5-WH	RECESSED	ADD BABA COMPLAINT TO PART NUMBER, PROVIDE MOUNTING HARDWARE TO MATCH CEILING GRID STYLE
F	KIRLIN	LCR-04CDN-3000L-UNV-RND-NFL-40K-30T	RECESSED	
G1	STARTEK	HYDROD-4-1000-SD-40K-80-PB-WM-U-1C	WALL	
G2	STARTEK	HYDROD-6-1000-SD-40K-80-PB-WM-U-1C	WALL	
H	LCD	UCF-2-2L40-AW-120DM-PHW-SW	SURFACE	PROVIDE MOUNTING HARDWARE AS REQUIRED
J	CREE	SEC-EDG-3M-WM-04-E-UL-BK-700-40K	WALL	
K	CREE	SEC-EDG-3M-WM-06-E-UL-BK-700-40K	WALL	
X1	LITHONIA	LV S 1 R 120/277 EL N UM BAA	SURFACE	

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

SCHEDULES - 1

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037

PROJECT MGR. RYAN WOOD

STRAND ASSOCIATES®

SHEET 108 99-E6.01

File: S:\MAD\1100--1199\1110\037\Drawings\CAD\AutoCAD\99-E6.01.dwg Time: Jul 18, 2025 - 11:16am

LIGHTING PANEL A EXISTING

Service: 120/208V, 3ø, 4W — Enclosure: NEMA 1 — Mounting: Surface
Main Breaker: 225A — Main Bus: Copper
Location: UPS ROOM — SCIC: 10 kAIC

Room Number/Description	Amps	Poles	Ckt. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt. #	Poles	Amps	Room Number/Description
LIGHTING - EXT TOWER	20	1	1	200			1800			2			
LIGHTING	20	1	3		200			1800		4	3	50	STAIRWAY PANEL**
LIGHTING	20	1	5			200			1800	6			
SINGLE RESTROOM*	20	1	7	180			500			8			
LIGHTING FRONT/KITCHEN	20	1	9		200			500		10	3	40	RTU**
LIGHTING LARGE OFFICE	20	1	11			300			500	12			
LARGE OFFICE RECEPTACLES	20	1	13	360			2000			14	2	100	UPS XFMR
LARGE OFFICE RECEPTACLES	20	1	15		360			2000		16			
SPARE	20	1	17			0			1000	18	1	20	UPS
RECEPTACLES	20	1	19	180			1000			20	1	20	UPS
SPARE	20	1	21		0			3500		22			
SPARE	20	1	23			0			3500	24	3	100	PANEL A1 MAIN
SPARE	20	1	25	0			3500			26			
RECPETACLES	20	1	27		180			0		28	1	20	SPARE
SPARE	20	1	29			0			0	30	1	20	SPARE
KITCHEN REFRIGERATOR*	20	1	31	180			0			32	1	20	SPARE
KITCHEN RECPTACLES*	20	1	33		180			-		34	-	-	SPACE
KITCHEN RECPTACLES*	20	1	35			180			180	36	1	20	RECPT. OPERATIONS DESK*
FRONT OFFICE RECEPTACLES	20	1	37	360			180			38	1	20	RECPT. OPERATIONS DESK*
SPARE	20	1	39		0			180		40	1	20	RECPT. OPERATIONS DESK*
RECPETACLES	20	1	41			540			-	42	-	-	SPACE
Total Load per Phase per Side (VA)				1460	1120	1220	8980	7980	6980				

Total Load Phase A (VA)	10440	VA	*EQUIPMENT SHALL BE REMOVED, BREAKERS SHALL
Total Load Phase B (VA)	9100	VA	REMAIN
Total Load Phase C (VA)	8200	VA	**EQUIPMENT SHALL BE REMOVED, BREAKERS SHALL BE
Total Connected Load (VA)	27740	VA	REPLACED

Total Connected Load	77	A
Total Connected Load + 25%	96	A
Spare 25%	24	A
Feeder Load	120	A

LIGHTING PANEL A PROPOSED

Service: 120/208V, 3ø, 4W — Enclosure: NEMA 1 — Mounting: Surface
Main Breaker: 225A — Main Bus: Copper
Location: UPS ROOM — SCIC: 10 kAIC

Room Number/Description	Amps	Poles	Ckt. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt. #	Poles	Amps	Room Number/Description
LIGHTING - EXT TOWER	20	1	1	150			0			**2**			
LIGHTING	20	1	3		250			0		**4**	**3**	**50**	**SPARE**
LIGHTING	20	1	5			250			0	**6**			
WORKOUT ROOM RECPT.*	**20**	**1**	**7**	540			1000			**8**	**1**	**20**	**MICROWAVE****
LIGHTING FRONT/KITCHEN	20	1	9		100			500		**10**	**1**	**20**	**GARBAGE DISPOSAL****
LIGHTING LARGE OFFICE	20	1	11			200			500	**12**	**1**	**20**	**COFFEE MACHINE****
LARGE OFFICE RECEPTACLES	20	1	13	360			5000			14	2	100	UPS XFMR
LARGE OFFICE RECEPTACLES	20	1	15		360			5000		16			
125,133,144, HALL RECPTS.*	**20**	**1**	**17**			900			1000	18	1	20	UPS
RECEPTACLES	20	1	19	180			1000			20	1	20	UPS
OFFICE 126/127 RECPT.*	**20**	**1**	**21**		900			5000		22			
OFFICE 126/127 RECPT.*	**20**	**1**	**23**			720			3670	24	3	100	PANEL A1 MAIN
125,133, 144 RECPT.*	**20**	**1**	**25**	900			4615			26			
RECEPTACLES	20	1	27		180			360		**28**	**1**	**20**	**CONFERENCE RECEPT****
LOCKER RM AND SHOWER*	**20**	**1**	**29**			450			360	**30**	**1**	**20**	**CONFERENCE RECEPT****
WATER FOUNTAIN*	**20**	**1**	**31**	500			540			**32**	**1**	**20**	**LOCKER RM AND STORAGE***
WORKOUT TREADMILL RECPT.*	**20**	**1**	**33**		540			500		**34**	**1**	**20**	**WORKOUT ROW MACHINE.***
WORKOUT STAIRMASTER *	**20**	**1**	**35**			540			720	**36**	**1**	**20**	**MEZZANINE RECPT.***
FRONT OFFICE RECEPTACLES	20	1	37	360			540			**38**	**1**	**20**	**MEZZANINE RECPT.***
REFRIGERATOR*	**20**	**1**	**39**		500			300		**40**	**1**	**20**	**MEZZANINE LIGHTS***
RECEPTACLES	20	1	41			180			600	**42**	**1**	**20**	**WH-90-01****
Total Load per Phase per Side (VA)				2990	2830	3240	12695	11660	6850				

Total Load Phase A (VA)	15685	VA	*NEW LOAD ON EXISTING BREAKER
Total Load Phase B (VA)	14490	VA	**NEW LOAD ON NEW BREAKER
Total Load Phase C (VA)	10090	VA	
Total Connected Load (VA)	40265	VA	

Total Connected Load	112	A
Total Connected Load + 25%	140	A
Spare 25%	35	A
Feeder Load	175	A

PANEL B EXISTING

Service: 120/208V, 3ø, 4W — Enclosure: NEMA 1 — Mounting: Surface
Main Breaker: 225A — Main Bus: Copper
Location: UPS ROOM — SCIC: 10 kAIC

Room Number/Description	Amps	Poles	Ckt. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt. #	Poles	Amps	Room Number/Description
SPACE	-	1	1	-			2000			2			
SPACE	-	1	3		-			2000		4	3	100	PANEL B1 MAIN
SPACE	-	1	5			-			2000	6			
SPACE	-	1	7	-			1000			8			
SPACE	-	1	9		-			1000		10	3	20	ELECTRIC DUCT HEATER CLEAN RM*
SPACE	-	1	11			-			1000	12			
			13	500			1000			14			
RTU*	20	3	15		500			1000		16	3	20	ELECTRIC DUCT HEATER LAB*
			17			500			1000	18			
			19	750			-			20	1	-	SPACE
RTU*	20	3	21		750			-		22	1	-	SPACE
			23			750			0	24	2	20	SPARE
			25	1000			0			26			
ELECTRIC DUCT HTR CONTROL RM*	20	3	27		1000			0		28	2	20	SPARE
			29			1000			0	30			
			31	500			400			32	2	20	BASEBOARD HEAT CONTROL RM*
KITCHEN REFRIGERATOR	20	2	33		500			400		34			
SPACE	-	1	35			-			400	36	2	20	BASEBOARD HEAT OFFICE*
ROOF TOP RECPT.*	20	1	37	180			400			38			
			39		180			0		40	2	20	SPARE
COMPUTER RM A/C LAB	20	2	41			180			0	42			
Total Load per Phase per Side (VA)				2930	2930	2430	4800	4400	4400				

Total Load Phase A (VA)	7730	VA	*EQUIPMENT SHALL BE REMOVED, BREAKER SHALL
Total Load Phase B (VA)	7330	VA	REMAIN
Total Load Phase C (VA)	6830	VA	**EQUIPMENT SHALL BE REMOVED, BREAKERS SHALL BE
Total Connected Load (VA)	21890	VA	REPLACED

Total Connected Load	61	A
Total Connected Load + 25%	76	A
Spare 25%	19	A
Feeder Load	95	A

PANEL B PROPOSED

Service: 120/208V, 3ø, 4W — Enclosure: NEMA 1 — Mounting: Surface
Main Breaker: 225A — Main Bus: Copper
Location: UPS ROOM — SCIC: 10 kAIC

Room Number/Description	Amps	Poles	Ckt. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt. #	Poles	Amps	Room Number/Description
EWH-90-05**	**15**	**2**	1	750			9567			2			
			3		750			9786		4	3	100	PANEL B1 MAIN
EWH-90-06**	**15**	**2**	5			750			9386	6			
			7	750			1686			8			
EWH-90-07**	**15**	**2**	9		750			1686		10	**3**	**50**	**AIR COMPRESSOR (AC-90-01)****
			11			750			1686	12			
			13	200			-			14			
EDH-90-01*	**20**	**3**	15		200			-		16	3	**20**	**SPARE***
			17			200			-	18			
			19	3000			-			20	1	-	SPACE
VAV-90-01**	**35**	**3**	21		3000			-		22	1	-	SPACE
			23			3000			1000	24	2	**20**	**EWH-90-01***
			25	166			1000			26			
EDH-90-02*	**20**	**3**	27		166			1000		28	2	**20**	**EWH-90-02***
			29			167			1000	30			
KITCHEN REFRIGERATOR	20	2	31	500			750			32	2	**20**	**EWH-90-03***
			33		500			750		34			
RHP-90-01*	**20**	**1**	35			250			500	36	2	**20**	**EWH-90-04***
ICF-90-01*	**20**	**1**	37	300			500			38			
			39		180			750		40	2	**20**	**EWH-90-08***
COMPUTER RM A/C LAB	20	2	41			180			750	42			
Total Load per Phase per Side (VA)				5666	5546	5297	13503	13972	14322				

Total Load Phase A (VA)	19169	VA	*NEW LOAD ON EXISTING BREAKER
Total Load Phase B (VA)	19518	VA	**NEW LOAD ON NEW BREAKER
Total Load Phase C (VA)	19619	VA	
Total Connected Load (VA)	58306	VA	

Total Connected Load	162	A
Total Connected Load + 10%	178	A
Spare 25%	45	A
Feeder Load	223	A

PANEL B1 EXISTING

Service: 120/208V, 3ø, 4W — Enclosure: NEMA 1 — Mounting: Surface
Main Breaker: 100A — Main Bus: Copper
Location: UPS ROOM — SCIC: 10 kAIC

Room Number/Description	Amps	Poles	Ckt. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt. #	Poles	Amps	Room Number/Description
EXHAUST FAN*	20	1	1	100			-			2	1	-	SPACE
			3		1000			1000		4			
BCU WEST*	15	3	5			1000			1000	6	3	15	BCU EAST*
			7	1000			1000			8			
SPACE	-	1	9		-			1000		10			
ELECTRIC DUCT HEATER FRONT OFFICE*	30	3	11			2000			1000	12	3	20	ELECTRIC DUCT HEATER LARGE OFFICE*
			13	2000			1000			14			
			15		2000			-		16	1	-	SPACE
ELECTRIC DUCT HEATER KITCHENETTE**	15	3	17			1000			-	18	1	-	SPACE
			19	1000			-			20	1	-	SPACE
			21		1000			-		22	1	-	SPACE
SPACE	-	1	23			-			-	24	1	-	SPACE
SPACE	-	1	25	-			-			26	1	-	SPACE
SPACE	-	1	27		-			-		28	1	-	SPACE
SPACE	-	1	29			-			-	30	1	-	SPACE
Total Load per Phase per Side (VA)				4100	4000	4000	2000	2000	2000				

Total Load Phase A (VA)	6100	VA	*EQUIPMENT SHALL BE REMOVED, BREAKER SHALL
Total Load Phase B (VA)	6000	VA	REMAIN
Total Load Phase C (VA)	6000	VA	**EQUIPMENT SHALL BE REMOVED, BREAKERS SHALL BE
Total Connected Load (VA)	18100	VA	REPLACED

Total Connected Load	50	A
Total Connected Load + 25%	63	A
Spare 25%	16	A
Feeder Load	79	A

PANEL B1 PROPOSED

Service: 120/208V, 3ø, 4W — Enclosure: NEMA 1 — Mounting: Surface
Main Breaker: 100A — Main Bus: Copper
Location: UPS ROOM — SCIC: 10 kAIC

Room Number/Description	Amps	Poles	Ckt. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt. #	Poles	Amps	Room Number/Description
SPARE*	**20**	**1**	1	0			200			2	**1**	**20**	**EF-90-01/DA-90-01****
			3		1666			1200		4			
VAV-90-02*	**20**	**3**	5			1666			1200	6	**3**	**30**	**VAV-90-06****
			7	1667			1200			8			
TEMP. CTL PANEL (TCP-90-01)**	**20**	**1**	9		500			750		10			
			11			2000			750	12	**3**	**20**	**VAV-90-05***
VAV-90-09*	**30**	**3**	13	2000			750			14			
			15		2000			750		16			
			17			1000			750	18	**3**	**20**	**VAV-90-07 & 08****
VAV-90-10**	**30**	**3**	19	1000			750			20			
			21		1000			1000		22			
OFFICE RECEPTACLES**	**20**	**1**	23			720			1000	24	**3**	**20**	**VAV-90-03 & 04****
HWRP-90-01**	**20**	**1**	25	1000			1000			26			
RECEPTACLES**	**20**	**1**	27		720			200		28	**1**	**15**	**EF-90-03****
SPACE	-	1	29			-			300	30	**1**	**15**	**EF-90-02****
Total Load per Phase per Side (VA)				5667	5886	5386	3900	3900	4000				

Total Load Phase A (VA)	9567	VA	*NEW LOAD ON EXISTING BREAKER
Total Load Phase B (VA)	9786	VA	**NEW LOAD ON NEW BREAKER
Total Load Phase C (VA)	9386	VA	
Total Connected Load (VA)	28739	VA	

Total Connected Load	80	A
Total Connected Load + 10%	88	A
Spare 13%	11	A
Feeder Load	99	A

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

SCHEDULES - 2

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

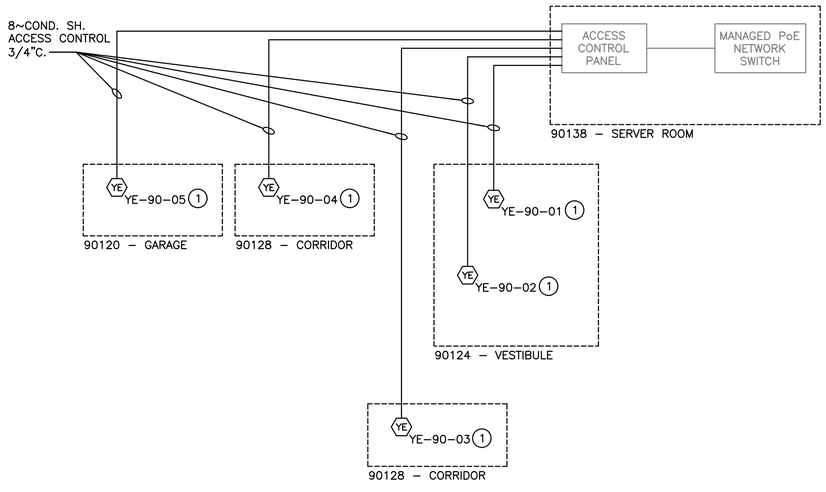
JOB NO. 1110.037
PROJECT MGR. RYAN WOOD

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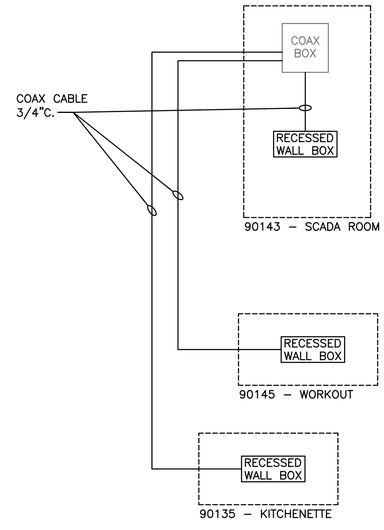
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KEY NOTES:

(1) EQUIPMENT FURNISHED BY OWNER AND INSTALLED AND WIRED BY DIVISION 26.



ACCESS CONTROL DIAGRAM
NO SCALE



COAX RISER DIAGRAM
NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

ACCESS CONTROL DIAGRAM AND COAX RISER DIAGRAM

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO.
1110.037

PROJECT MGR.
RYAN WOOD

STRAND ASSOCIATES®

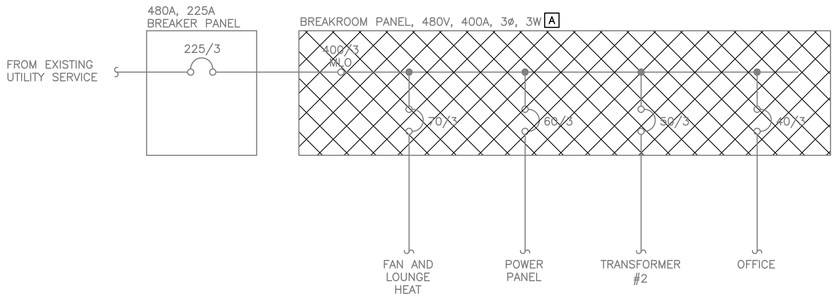
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DEMOLITION KEY NOTES:

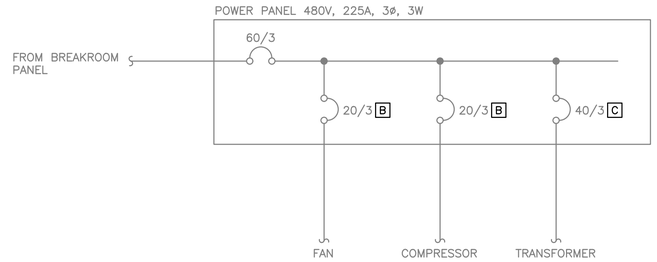
A REMOVE PANEL AND DISCONNECT LOADS ON EXISTING CIRCUITS. PREPARE TO REINSTALL AS SHOWN ON BREAKROOM PANEL PROPOSED ONE-LINE DIAGRAM.

B REMOVE CONDUIT AND WIRING TO MAIN CIRCUIT BREAKER AND PREPARE FOR REUSE AS SHOWN ON POWER PANEL PROPOSED ONE-LINE DIAGRAM.

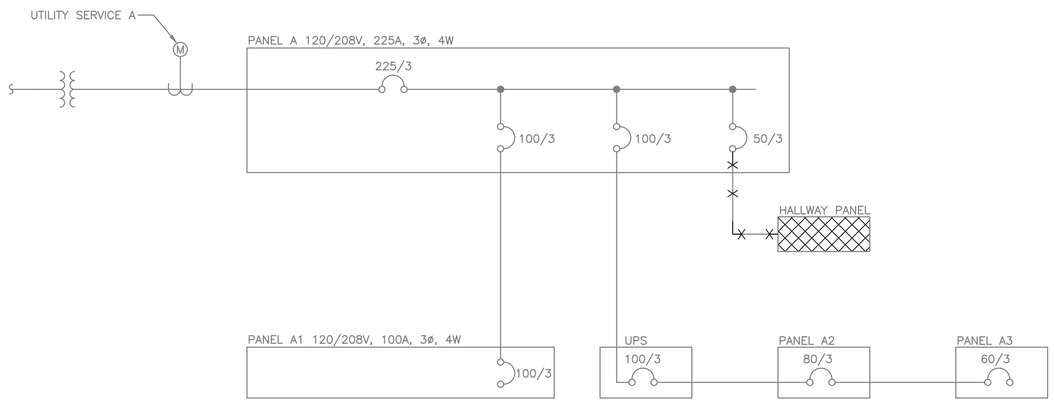
C REMOVE EXISTING BREAKER, CONDUIT, AND WIRING TO EQUIPMENT.



BREAKROOM PANEL DEMOLITION ONE-LINE DIAGRAM
NO SCALE



POWER PANEL DEMOLITION ONE-LINE DIAGRAM
NO SCALE



ADMINISTRATION BUILDING DEMOLITION ONE-LINE DIAGRAM
NO SCALE

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DEMOLITION ONE-LINE DIAGRAM

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO.
1110.037

PROJECT MGR.
RYAN WOOD

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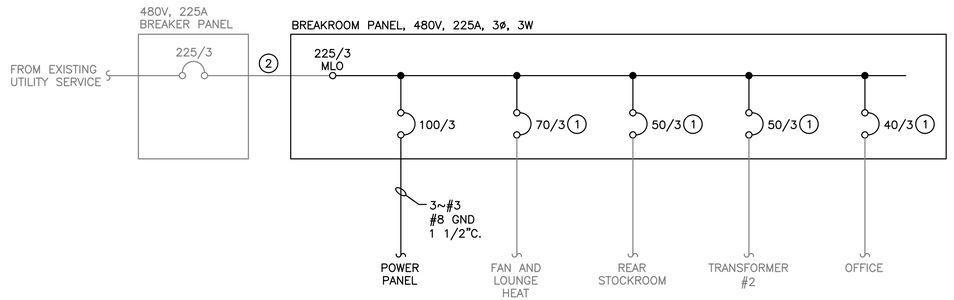
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VFD SCHEDULE

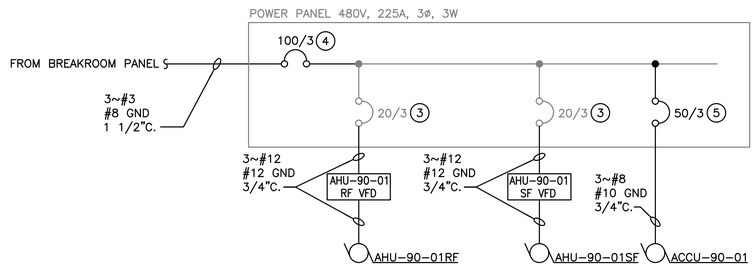
EQUIPMENT AND NAMEPLATE TITLES					MOTOR INFORMATION			MOTOR STARTER INFORMATION					CONTROLS AND INTERLOCKS		
EQUIPMENT NUMBER	FIRST LINE SECOND LINE WHEN EQUIPMENT NUMBER IS INDICATED	SECOND LINE THIRD LINE WHEN EQUIPMENT NUMBER IS INDICATED	EQUIPMENT LOCATION	PANEL	HP (OR KW)	VOLTS	F.L.A.	SIZE	TYPE	DISCONNECT TYPE	DISCONNECT AMPS	CONTROL DEVICES	DESCRIPTION	CONDUIT AND WIRE ** 1ST ROW(S)=CONTROL* LAST ROW=POWER	REMARKS ***
AHU-90-01SF	AIR HANDLING UNIT	SUPPLY FAN	MEZZANINE	WALL MOUNTED	7.5	480	9.8	-	VFD ND	TM	20	-	-	3~#12,3/4"C.	SEE SPECIFICATION SECTION 23 09 23 FOR REQUIRED CONTROLS
AHU-90-01RF	AIR HANDLING UNIT	RETURN FAN	MEZZANINE	WALL MOUNTED	3	480	4.2	-	VFD ND	TM	15	-	-	3~#12,3/4"C.	SEE SPECIFICATION SECTION 23 09 23 FOR REQUIRED CONTROLS

KEY NOTES:

1. CONNECT EXISTING LOADS TO NEW BREAKERS. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED.
2. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED.
3. PROVIDE NEW CONDUIT AND WIRING FROM EXISTING BREAKER TO NEW EQUIPMENT.
4. PROVIDE NEW 100A, 3–POLE MAIN BREAKER.
5. PROVIDE 50A, 3–POLE BREAKER FOR NEW EQUIPMENT.



BREAKROOM PANEL PROPOSED ONE–LINE DIAGRAM
NO SCALE



POWER PANEL PROPOSED ONE–LINE DIAGRAM
NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

ADMINISTRATION BUILDING ONE-LINE DIAGRAM

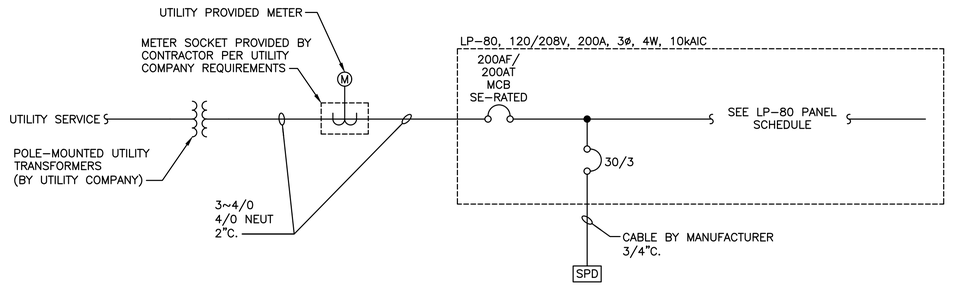
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

JOB NO. 1110.037
PROJECT MGR. RYAN WOOD

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MAINTENANCE GARAGE ONE–LINE DIAGRAM
NO SCALE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

MAINTENANCE GARAGE ONE-LINE DIAGRAM

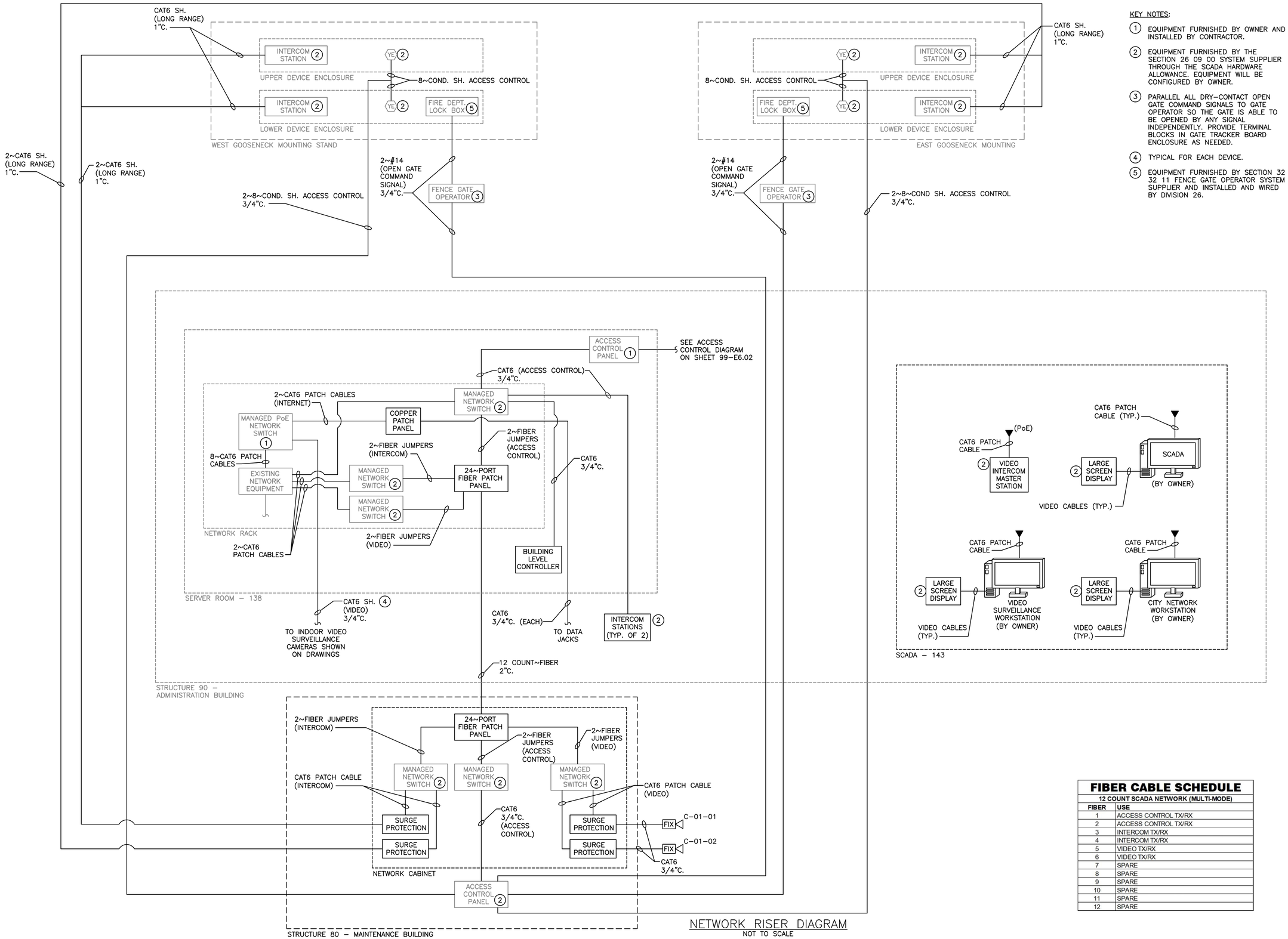
WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

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KEY NOTES:

1. EQUIPMENT FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.
2. EQUIPMENT FURNISHED BY THE SECTION 26 09 00 SYSTEM SUPPLIER THROUGH THE SCADA HARDWARE ALLOWANCE. EQUIPMENT WILL BE CONFIGURED BY OWNER.
3. PARALLEL ALL DRY-CONTACT OPEN GATE COMMAND SIGNALS TO GATE OPERATOR SO THE GATE IS ABLE TO BE OPENED BY ANY SIGNAL INDEPENDENTLY. PROVIDE TERMINAL BLOCKS IN GATE TRACKER BOARD ENCLOSURE AS NEEDED.
4. TYPICAL FOR EACH DEVICE.
5. EQUIPMENT FURNISHED BY SECTION 32 32 11 FENCE GATE OPERATOR SYSTEM SUPPLIER AND INSTALLED AND WIRED BY DIVISION 26.

NETWORK RISER DIAGRAM
NOT TO SCALE

FIBER CABLE SCHEDULE

12 COUNT SCADA NETWORK (MULTI-MODE)	
FIBER	USE
1	ACCESS CONTROL TX/RX
2	ACCESS CONTROL TX/RX
3	INTERCOM TX/RX
4	INTERCOM TX/RX
5	VIDEO TX/RX
6	VIDEO TX/RX
7	SPARE
8	SPARE
9	SPARE
10	SPARE
11	SPARE
12	SPARE

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	07/24/2025

NETWORK RISER DIAGRAM

WELL NO. 45 RESERVOIR REPLACEMENT AND SITE MODIFICATIONS
CITY OF ROCKFORD
WINNEBAGO COUNTY, ILLINOIS

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