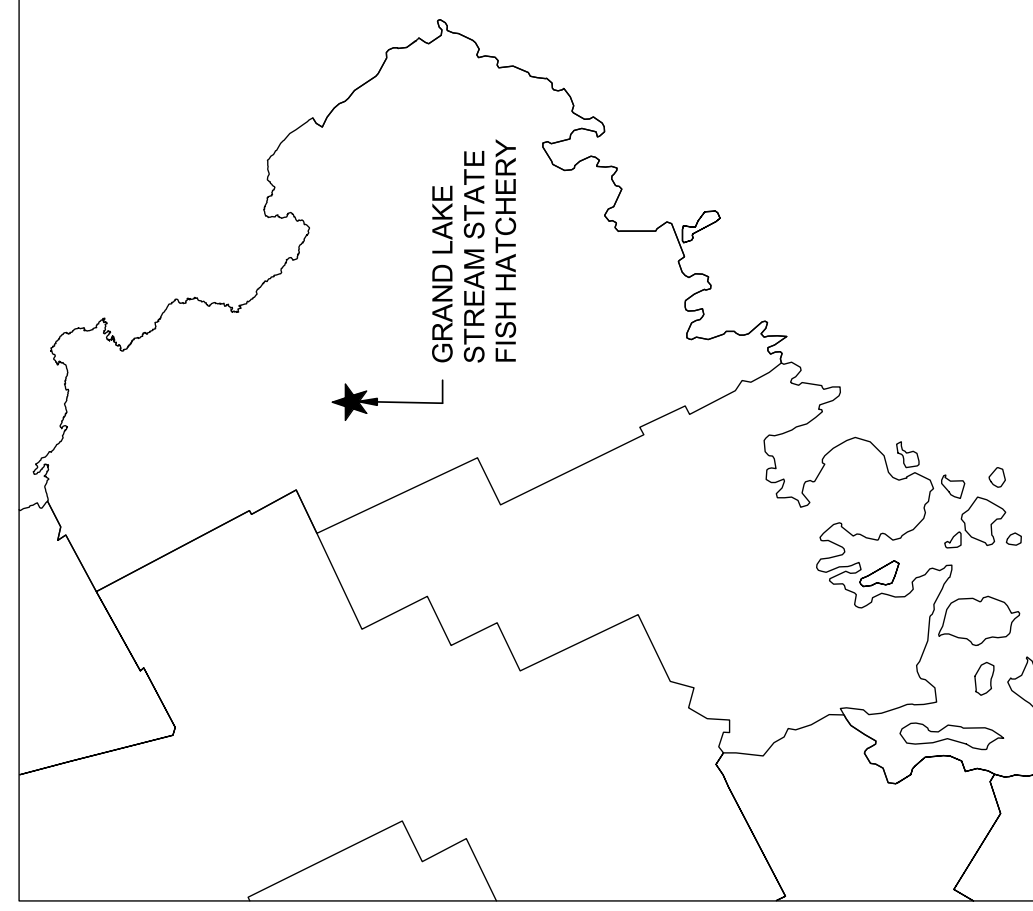


State Location Map



Vicinity Map

Contract Drawings For

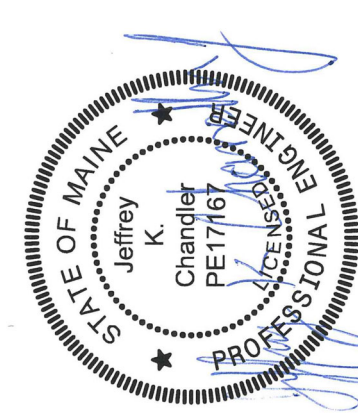
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

Grand Lake Stream, Maine

HDR Project No. 10357686
BGS Project No. 3289
Other Project No. 14

ISSUED FOR BID

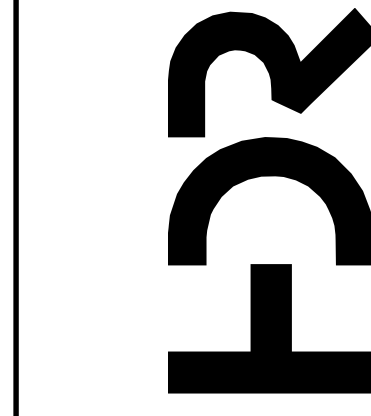
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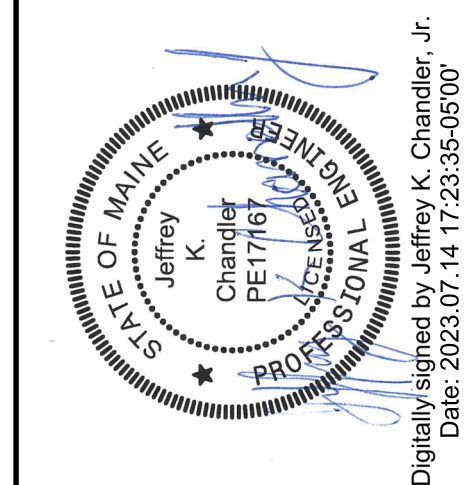
Digitally signed by Jeffrey K. Chandler,
DN: cn=Jeffrey K. Chandler,
o=HDR, ou=Maine, email=jkchandler@hdr.com,
c=US
Date: 2023.07.14 17:23:25-0500'

SHEET #	DESCRIPTION
INDEX OF DRAWINGS	
SERIES 00 - GENERAL	
00G-000	COVER SHEET
00G-001	SHEET INDEX
00G-002	ABBREVIATIONS
00G-003	GENERAL LEGEND
00G-004	CIVIL LEGEND
00G-005	MECHANICAL LEGEND
00G-006	ELECTRICAL LEGEND 1
00G-007	ELECTRICAL LEGEND 2
00G-008	INSTRUMENTATION LEGEND
00G-009	LIFE SAFETY
00S-100	GENERAL STRUCTURAL NOTES
00S-101	GENERAL STRUCTURAL DETAILS 1
00S-102	GENERAL STRUCTURAL DETAILS 2
00S-103	GENERAL STRUCTURAL DETAILS 3
00S-601	STRUCTURAL SCHEDULES
00D-501	GENERAL PROCESS DETAILS
00D-502	GENERAL PROCESS DETAILS
00D-601	PROCESS WATER FLOW SCHEMATIC
00D-602	PROCESS SCHEDULES 1
00D-603	PROCESS SCHEDULES 2
00M-601	MECHANICAL SCHEDULES
00E-501	GENERAL ELECTRICAL DETAILS 1
00E-502	GENERAL ELECTRICAL DETAILS 2
00E-503	GENERAL INSTRUMENTATION DETAILS 1
00E-601	DIAGRAMS
00E-651	ELECTRICAL SCHEDULES 1
00E-652	ELECTRICAL SCHEDULES 2
SERIES 01 - SITE	
01V-101	EXISTING TOPOGRAPHIC SURVEY
01C-101	EXISTING SITE DEMOLITION PLAN
01C-102	GRADING AND DRAINAGE PLAN
01C-103	EROSION CONTROL PLAN
01C-111	OVERALL SITE PLAN
01C-201	PLAN AND PROFILE - FWS & WDW
01C-501	EROSION CONTROL DETAILS
01D-101	OVERALL SITE PIPING PLAN
01D-501	STANDARD PIPING DETAILS
01E-101	OVERALL ELECTRICAL SITE PLAN
SERIES 02 - UPPER PAVILION	
02S-101	FOUNDATION PLAN
02S-102	FRAMING PLAN
02S-301	SECTIONS
02S-302	DETAILS
02A-101	UPPER PAVILION PLAN
02A-201	UPPER PAVILION DOOR SCHEDULE & DETAILS
02A-301	UPPER PAVILION WALL SECTIONS & DETAILS
02A-601	UPPER PAVILION DOOR SCHEDULE AND DETAILS
02D-101	ABOVE FLOOR PROCESS PIPING PLAN
02D-102	BELOW FLOOR PROCESS PIPING PLAN
02D-301	TANK SECTIONS
02D-401	ENLARGED PLAN & DETAILS
02E-101	ELECTRICAL PLAN

SHEET #	DESCRIPTION
INDEX OF DRAWINGS	
SERIES 03 - LOWER PAVILION	
03S-101	FOUNDATION PLAN
03S-102	FRAMING PLAN
03S-103	20' DIAMETER TANK FOUNDATION
03S-104	20' DIAMETER TANK FOUNDATION DETAILS
03S-302	SECTIONS
03A-101	LOWER PAVILION PLAN
03A-201	LOWER PAVILION DOOR SCHEDULE & DETAILS
03A-301	LOWER PAVILION WALL SECTIONS & DETAILS
03A-601	UPPER PAVILION DOOR SCHEDULE AND DETAILS
03D-101	ABOVE FLOOR PROCESS PIPING PLAN
03D-102	BELOW FLOOR PROCESS PIPING PLAN
03D-301	TANK SECTIONS
03D-401	ENLARGED PLAN & DETAILS
03E-101	ELECTRICAL PLAN
SERIES 04 - EFFLUENT TREATMENT BUILDING	
04S-101	FOUNDATION PLAN
04S-102	PLAN AT EL 283.50'
04S-103	PLAN AT EL 285.50'
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04S-105	SECTIONS
04S-106	CLARIFIER PLANS AND SECTION
04S-107	CLARIFIER FOUNDATION PLAN, SECTION AND DETAILS
04S-108	SLUDGE STORAGE TANK PLAN, SECTIONS AND DETAILS
04A-101	EFFLUENT TREATMENT BUILDING PLAN AND ELEVATIONS
04D-101	OVERALL EFFLUENT PROCESS PIPING PLAN
04D-401	DRUMFILTER BUILDING PROCESS PIPING PLAN
04D-402	BACKWASH PUMP STATION PROCESS PIPING PLAN & SECTION
04D-403	CLARIFIER PROCESS PIPING PLAN & SECTION
04D-404	SLUDGE STORAGE PROCESS PIPING PLAN & DETAILS
04D-501	DRUMFILTER BLDG DETAILS
04M-101	MECHANICAL PLAN
04E-101	OVERALL EFFLUENT ELECTRICAL PLAN
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SERIES 05 - LOX & RACEWAYS	
05S-101	STRUCTURAL PLAN AND SECTION
05D-101	EXISTING RACEWAYS, LHO PIPING PLAN AND SECTIONS
05D-102	EXISTING RACEWAY DETAILS
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05E-101	ELECTRICAL PLAN
SERIES 06 - STORAGE BUILDING	
06C-101	STORAGE BUILDING SITE PLAN
06S-001	STORAGE BUILDING GENERAL STRUCTURAL NOTES
06S-101	STORAGE BUILDING FOUNDATION & ROOF FRAMING PLAN
06S-501	STORAGE BUILDING STRUCTURAL DETAILS
06A-101	STORAGE BUILDING FLOOR PLAN
06A-201	STORAGE BUILDING ELEVATION PLAN - OPTION A
06E-101	ELECTRICAL FLOOR PLAN



PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

SHEET INDEX

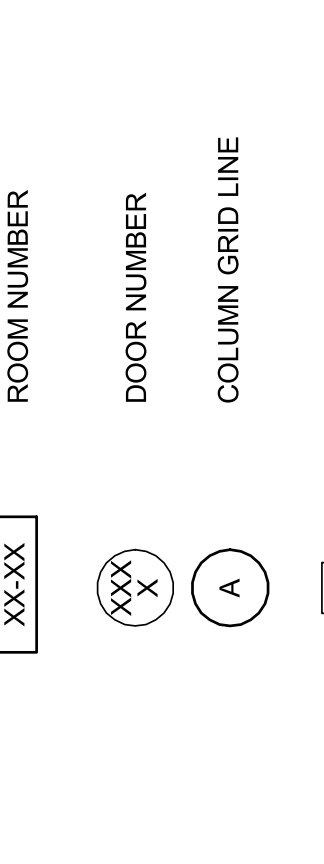
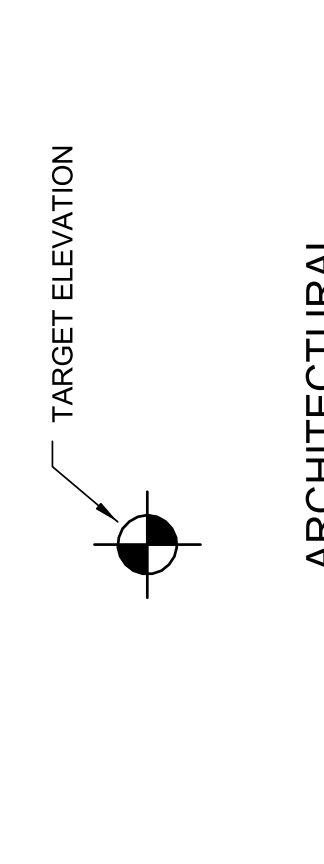
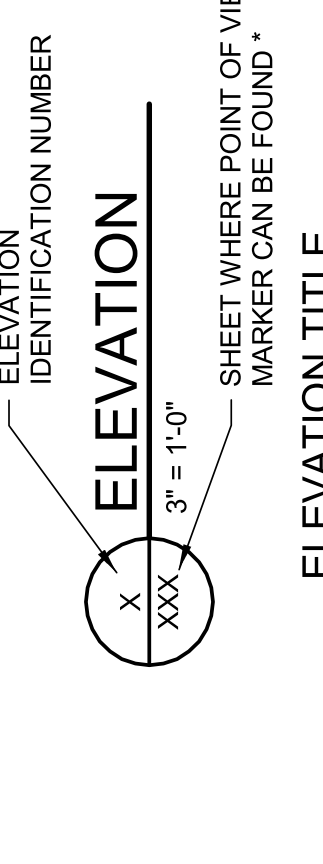
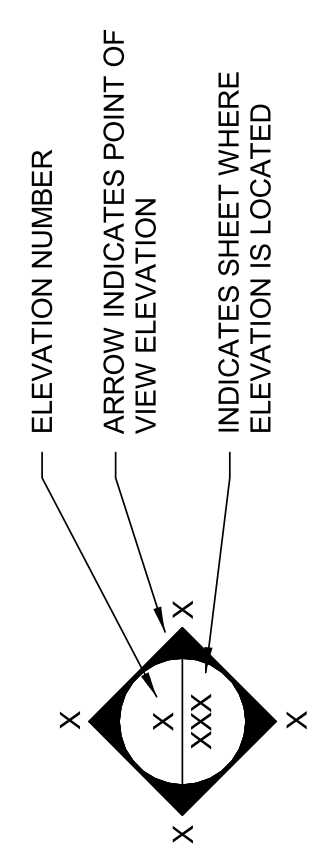
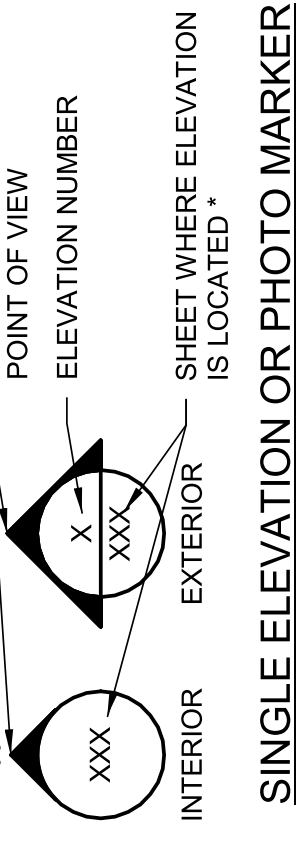
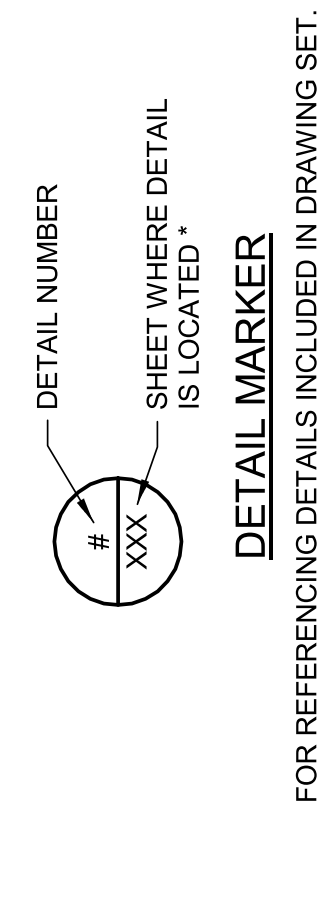
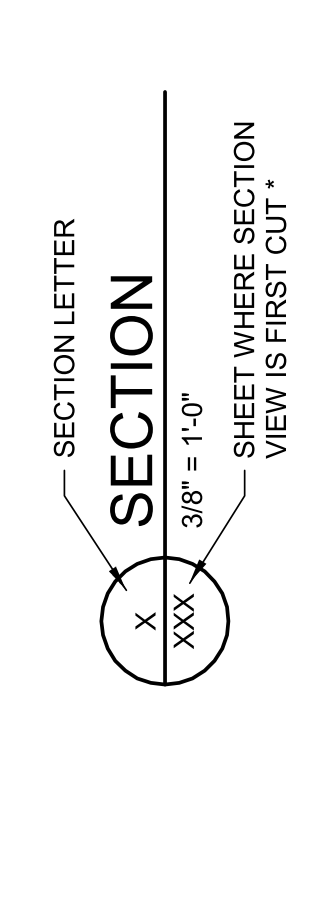
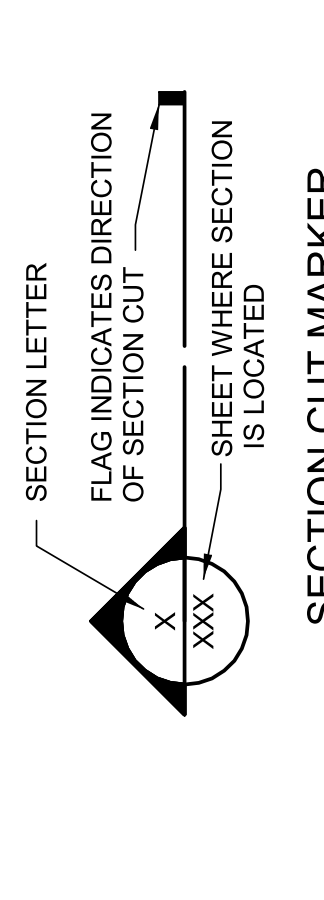
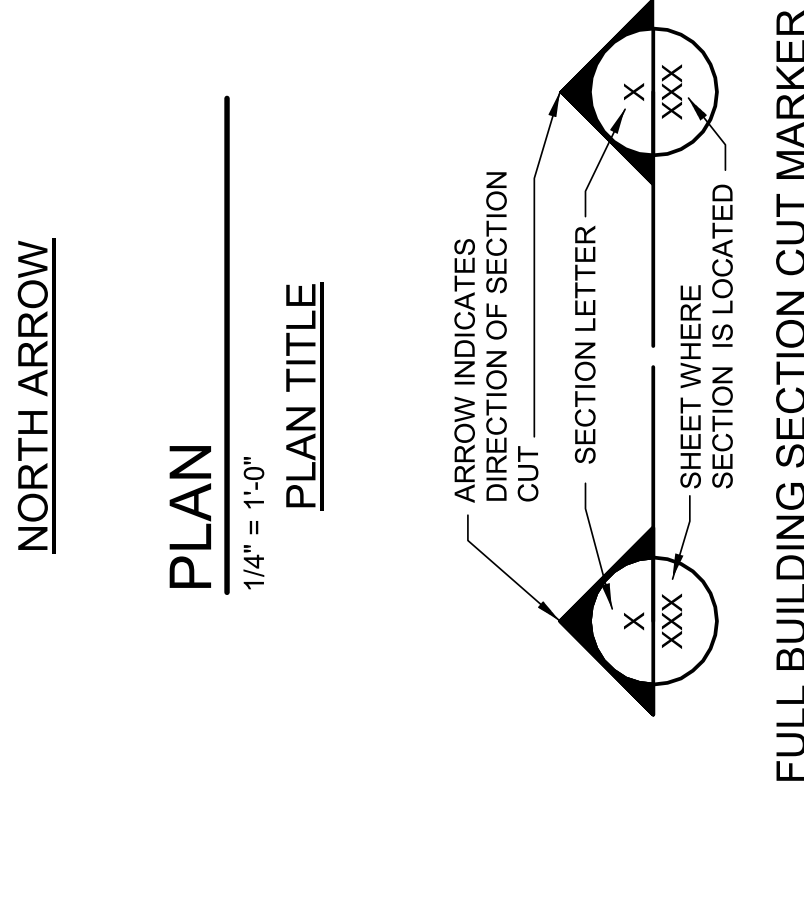
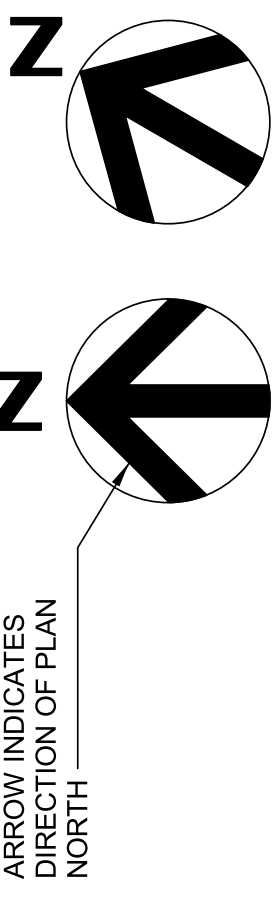
ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	



FILENAME | 10357686-00-G.rvt
SCALE | NONE

MATERIALS IN PLAN/SECTION

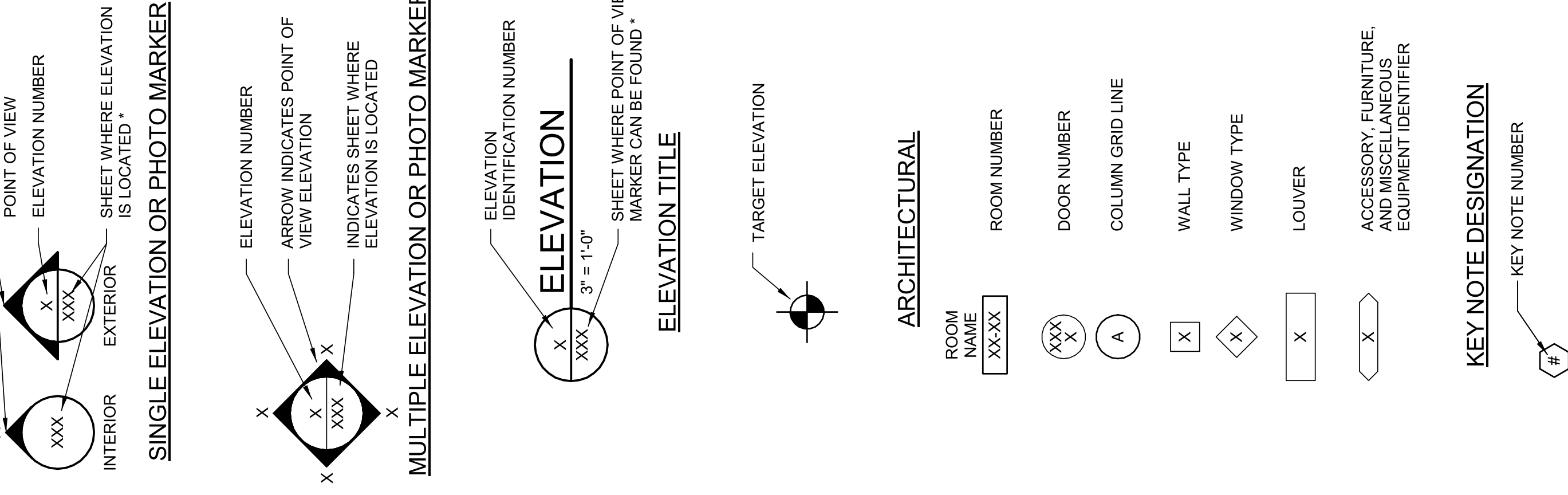
- ACOUSTICAL CEILING TILE (SECTION)
- ASPHALT (PLAN OR SMALL-SCALE SECTION)
- ASPHALT (LARGE-SCALE SECTION)
- BATT INSULATION (SECTION)
- BRICK MASONRY (PLAN AND/OR SECTION)
- CHECKERED PLATE (PLAN)
- CONCRETE (PLAN AND/OR SECTION)
- CONCRETE MASONRY (PLAN AND/OR SECTION)
- DEMOLITION (PLAN AND/OR SECTION)
- EARTH (SECTION)
- FILTER POINT MAT (PLAN)
- FINISHED WOOD (SECTION)
- GLULAM LUMBER (SECTION)
- GRANULAR FILL (SECTION)
- GRATING (SECTION)
- GRATING (PLAN)
- GROUT (SECTION)
- GYPSUM BOARD (SECTION)
- METAL (SECTION)
- ORIENTED STRAND BOARD (SECTION)
- PARTICLE BOARD (SECTION)
- PLYWOOD (LARGE-SCALE SECTION)
- PLYWOOD (SMALL-SCALE SECTION)
- PRECAST CONCRETE (PLAN AND/OR SECTION)
- RIGID INSULATION (SECTION)
- RIPRAP (PLAN AND/OR SECTION)
- SAND (SECTION)
- SOD (SECTION)
- WEEP JOINT MORTAR PROTECTION SYSTEM (SECTION)
- WOOD - CONTINUOUS (SECTION)
- WOOD - BLOCKING (SECTION)



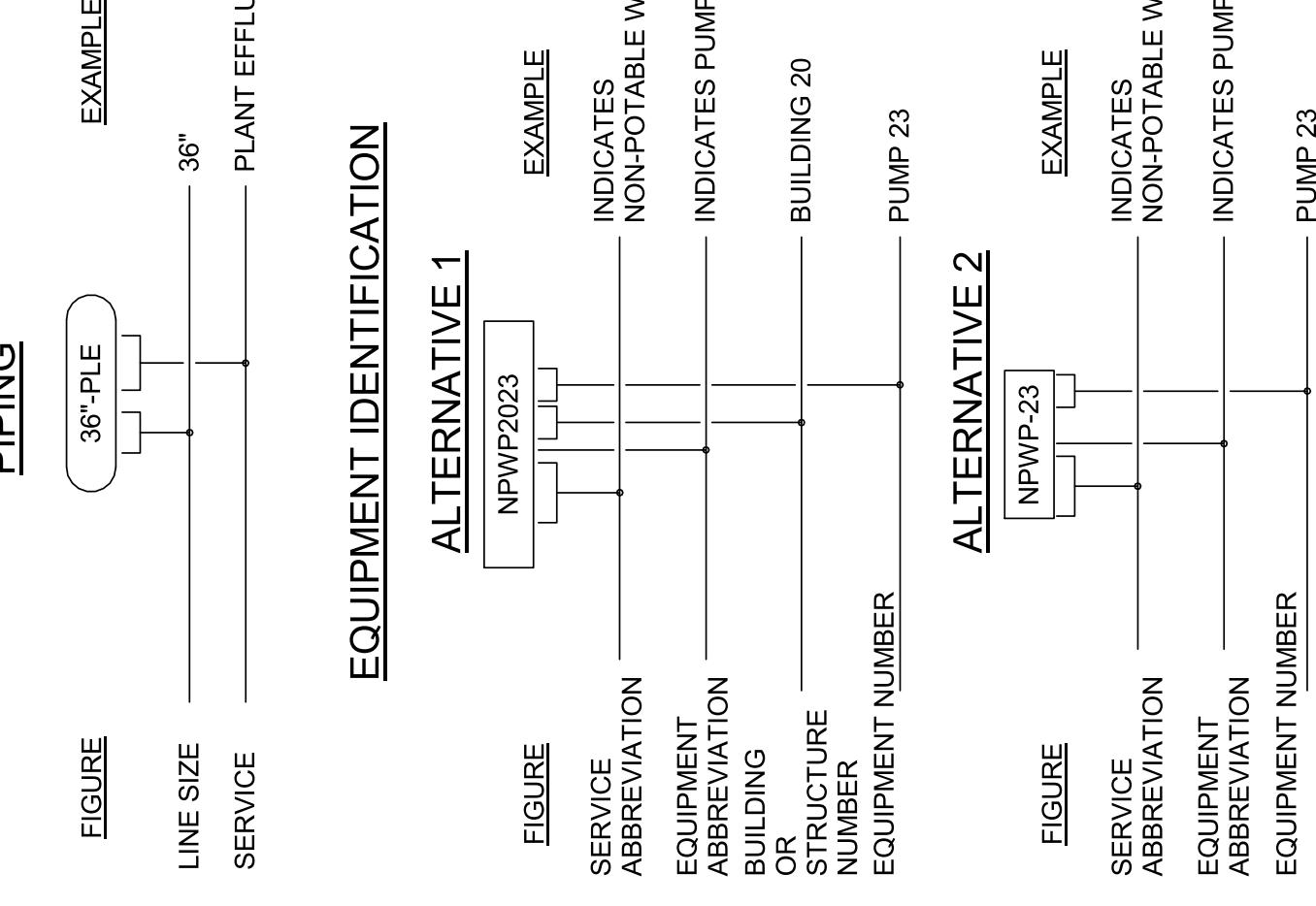
GENERAL LINE SYMBOLOGY

- 4-HOUR FIRE RATED WALL
- 3-HOUR FIRE RATED WALL
- 2-HOUR FIRE RATED WALL
- 1-HOUR FIRE RATED WALL
- COLUMN GRID LINE/CENTERLINE

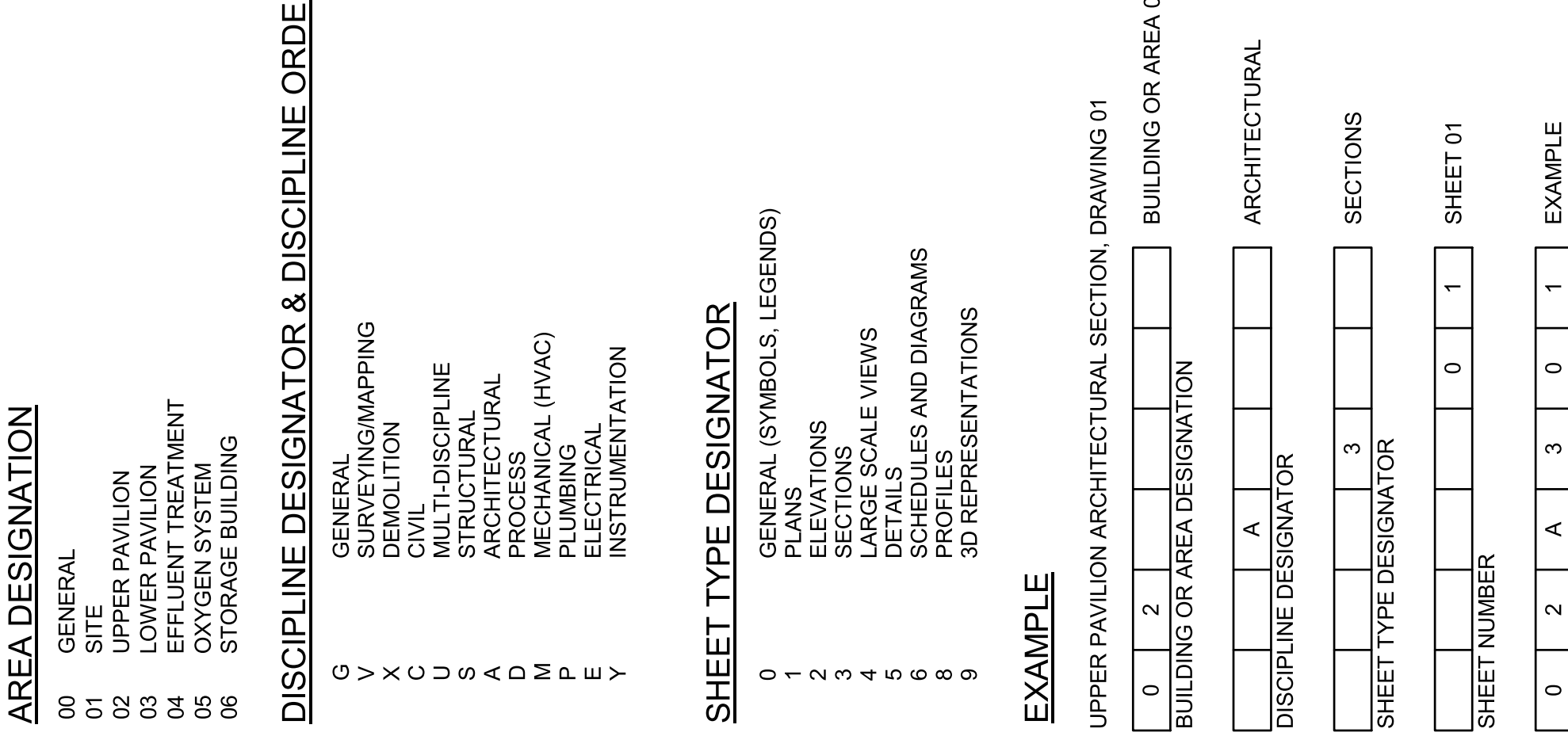
GENERAL SYMBOLOGY



IDENTIFICATION SYMBOLOGY

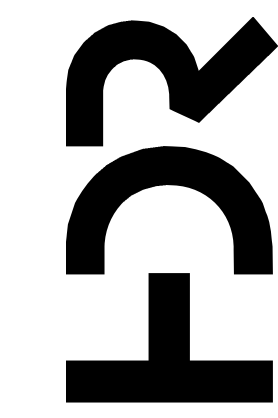


SHEET NAMING CONVENTION



GENERAL NOTES:

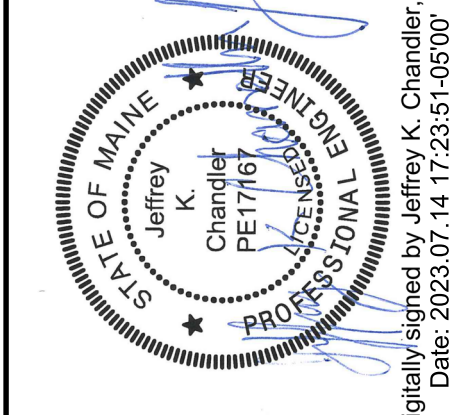
- THIS IS A STANDARD SHEET SHOWING COMMON SYMBOLOGY. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DEEMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.



PROJECT MANAGER ANDREW GURSKI

CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER

PROJECT NUMBER 10357686



IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

GENERAL LEGEND

ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	



CIVIL MAPPING SYMBLOGY

	EMBANKMENT SLOPE (CUT)
	EMBANKMENT SLOPE (FILL)
	EMBANKMENT SLOPE RIGHT ARROW
	EMBANKMENT SLOPE LEFT ARROW
	SPOT ELEVATION/POINT #
	SURVEY BENCHMARK
	SURVEY CONTROL POINT
	HORIZONTAL CONTROL POINT
	VERTICAL CONTROL POINT
	SECTION CORNER MONUMENT
	SECTION CORNER NO MONUMENT
	FLOW ARROW
	WATER LEVEL IN SECTION/PROFILE
	EXISTING UTILITY POLE
	EXTERIOR UTILITY JUNCTION BOX
	INTERSTATE HIGHWAY SYMBOL
	US HIGHWAY SYMBOL
	STATE HIGHWAY SYMBOL
	HAY BALE SILT CHECK
	TEMPORARY SEDIMENT TRAP

	CLEANOUT
	CULVERT END SYMBOL (WITH CULVERT SHOWN BETWEEN SYMBOLS)
	FIRE HYDRANT
	FUEL OIL METER
	FUEL OIL MANHOLE
	FUEL OIL VAULT
	GREASE TRAP
	GRIT CHAMBER
	HEADWALL
	INDUSTRIAL WASTE WATER METER
	INDUSTRIAL WASTE WATER MANHOLE
	NATURAL GAS METER
	NATURAL GAS RECEIVER
	NATURAL GAS TRAP
	NATURAL GAS LINE VAULT
	MONITORING WELL
	POST INDICATOR VALVE
	PUMP STATION
	SANITARY MANHOLE
	SEPTIC TANK
	TANK BELOW GROUND
	TANK HORIZONTAL ABOVE GROUND
	TANK VERTICAL ABOVE GROUND

	STORM CATCH BASIN
	STORM ROUND CATCH BASIN
	STORM DRAINAGE MANHOLE
	WATER/AIR VENT
	WATER BACKFLOW PREVENTER
	WATER BLOWOFF
	WATER METER
	WATER SHUTOFF
	WATER SOFTENER
	WATER VALVE VAULT
	VALVE

UTILITY/CIVIL LINE SYMBLOGY

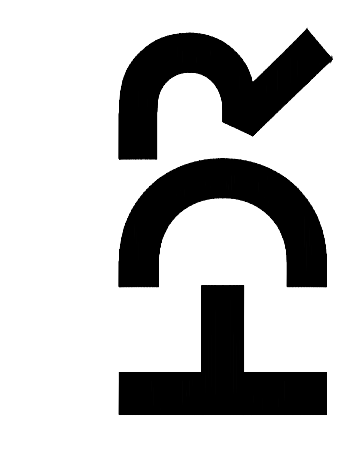
	PIPELINE
	LARGE PIPELINE
	UTILITY BENEATH STRUCTURE
	RAILROAD
	CENTERLINE
	BOTTOM OF DITCH
	PROPERTY LINE
	EASEMENT
	LIMITS OF CONSTRUCTION/DISTURBANCE
	ROW
	EXISTING CONTOUR (MINOR)
	EXISTING CONTOUR WELEVATION (MAJOR)
	EXISTING FENCE
	EXISTING VEGETATION/BRUSH LINE
	FENCE - BARB WIRE
	FENCE - CHAIN LINK
	FENCE - FIELD
	FENCE - OTHER
	FENCE - WOOD
	FENCE - WOVEN WIRE
	FLOOD LIMIT (25 YEAR)
	FLOOD LIMIT (50 YEAR)
	FLOOD LIMIT (100 YEAR)
	FLOOD LIMIT (200 YEAR)
	FLOOD LIMIT (500 YEAR)
	HIGHWAY GUARDRAIL
	LEVEE TOP
	LEVEE TOE
	NEW CONTOUR (MINOR)
	NEW CONTOUR (MAJOR)
	ROCK BERM
	SILT FENCE
	TOE OF SLOPE
	TOP OF SLOPE
	FIBER OPTIC
	FUEL OIL
	NATURAL GAS
	INDUSTRIAL WASTE WATER
	SANITARY SEWER
	STORM SEWER
	DOMESTIC WATER
	DOMESTIC WATER NON-POTABLE

GENERAL NOTES:

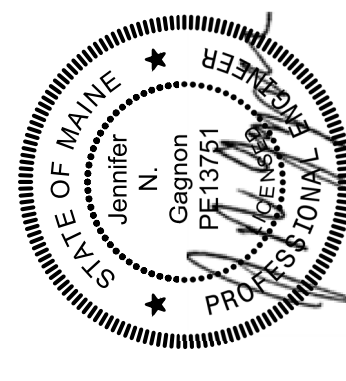
- THIS IS A STANDARD CIVIL SYMBOLOGY SHEET. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
- PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBANCE, SEE 01C-103 FOR NOTES SPECIFIC TO LIMIT OF DISTURBANCE, UTILITY COORDINATION, AND EROSION AND SEDIMENT CONTROL.
- EXISTING CONDITIONS PLANIMETRICS AND DATA OBTAINED FROM OWEN HASKELL, INC. LAND SURVEYS STANDARD TOPOGRAPHIC AND BOUNDARY SURVEY PREPARED FOR DIFW, DATED JANUARY 19, 2023, TITLED HATCHERY ROAD, GRAND LAKES STREAM, MAINE.
- CONTRACTOR IS RESPONSIBLE FOR ALL SURVEY STAKING OPERATIONS.
- NO PROVISIONS HAVE BEEN MADE FOR ANY TEMPORARY CONDITIONS THAT MAY ARISE DURING CONSTRUCTION PRIOR TO COMPLETION OF THE STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION DURING THE PROCESS OF THE PROJECT.
- CONTRACTOR SHALL MAINTAIN WORKING RED LINE DRAWINGS.

REFERENCE COORDINATE SYSTEM

PROJECTION - MAINE STATE PLANE
 DATUM - NAD83
 ZONE - EAST
 UNITS - U.S. SURVEY FEET
 VERTICAL DATUM IS REFERENCED TO NAVD 88.



IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

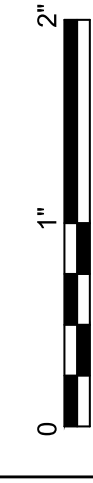


PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

Digitally signed by Jennifer Gagnon
 Date: 2023.07.14 15:30:21 -0400

GENERAL CIVIL LEGEND



FILENAME | 10357686-00G-004.DWG
 SCALE | NONE
 SHEET | 00G-004

PIPING SYSTEMS

Table with 2 columns: Piping System Abbreviation (e.g., COLD WATER, POTABLE (CW)) and Piping Symbolology (e.g., pipe symbol with cross).

PIPING SYMBOLLOGY

Table with 2 columns: Piping System Abbreviation and Piping Symbolology (e.g., expansion joint, pressure-reducing valve).

HVAC SYMBOLLOGY

Table with 2 columns: HVAC System Abbreviation (e.g., SUPPLY AIR OR OUTSIDE AIR DUCT UP) and HVAC Symbolology (e.g., duct symbol with arrow).

TEMPERATURE CONTROL DIAGRAM SYMBOLGY

Table with 2 columns: Temperature Control System Abbreviation (e.g., MISCELLANEOUS DEVICE IDENTIFIER) and Temperature Control Diagram Symbolology (e.g., sensor symbols).

ABBREVIATIONS

Table with 2 columns: Abbreviation (e.g., AD, AFR, AHU) and Full Name (e.g., ABOVE FINISHED FLOOR, AIR HANDLING UNIT).

GENERAL NOTES

- 1. THESE NOTES ARE NOT ALL INCLUSIVE. REFER TO DRAWINGS AND SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
2. THIS IS A STANDARD MECHANICAL (HVAC AND PLUMBING) SYMBOLGY AND ABBREVIATIONS SHEET. LISTING OF SYMBOLS AND ABBREVIATIONS DOES NOT IMPLY ALL SYMBOLS AND ABBREVIATIONS HAVE BEEN USED ON THIS PROJECT.

GENERAL MECHANICAL NOTES

- 1. DUCTWORK DIMENSIONS: FIRST NUMBER INDICATES SIDE OF DUCTWORK SHOWN. ALL DIMENSIONS ARE IN INCHES AND ARE INSIDE CLEAR DIMENSIONS.
2. VOLUME DAMPERS ABOVE PLASTER OR GYPBOARD CEILINGS SHALL HAVE EXTENSION RODS AND CHROME-PLATED ESCUTCHEON PLATES.

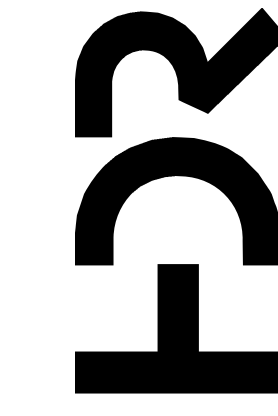
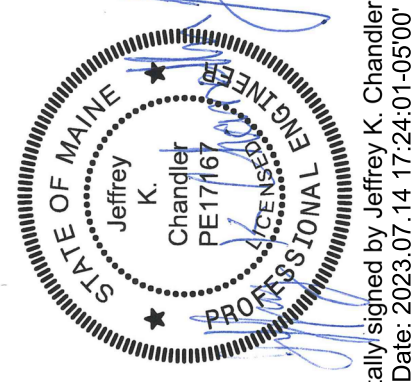


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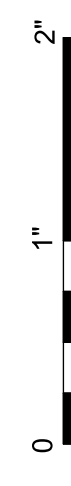
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Digitally signed by Jeffrey K. Chandler, Jr. Date: 2023.07.14 17:24:01-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

MECHANICAL LEGEND



FILENAME 10357686-00-G.rvt SCALE NONE SHEET 00G-005

ONE-LINE, POWER, AND LIGHTING SYMBOLOLOGY

LOW VOLTAGE CIRCUIT BREAKER (CB), RATING AND NO. OF POLES AS SHOWN. WHEN SPECIFIC TYPE, OTHER THAN MCCB, IS REQUIRED, X INDICATES TYPE.

TRIP UNIT:
 L - LONG TIME PICKUP
 I - SHORT TIME PICKUP
 I - INSTANTANEOUS PICKUP
 G - GROUND FAULT PICKUP
 A - ARC ENERGY REDUCTION (LOAD)

INTERLOCK: X - INDICATES TYPE

TYPES:
 E - ELECTRICAL
 M - MECHANICAL
 K - KEY

GROUND FAULT PROTECTION

MEDIUM VOLTAGE CIRCUIT BREAKER

FUSE, RATING, AND NUMBER OF FUSES AS NOTED

FUSED CUTOFF, CURRENT RATING, FUSE RATING, AND QUANTITY AS NOTED

FUSIBLE SWITCH, CURRENT RATING, FUSE RATING, AND QUANTITY AS NOTED (3 POLE UON)

NON-FUSED SWITCH, CURRENT RATING, AND NUMBER OF POLES AS NOTED (3 POLE UON)

DISCONNECT OR DRAWOUT CONNECTION

MAGNETIC MOTOR STARTER AND SEPARATELY MOUNTED COMBINATION MAGNETIC MOTOR STARTER

MOTOR/LOAD CONTROLLER AND SEPARATELY MOUNTED MOTOR/LOAD CONTROLLER WITH SHORT CIRCUIT PROTECTION AND DISCONNECT

MOTOR STARTER AND CONTROLLER SUBSCRIPTS:
 A - MAGNETIC STARTER NEMA SIZE
 B - STARTER TYPE
 NONE - FULL VOLTAGE NON-REVERSING (FVNR)
 2R - FULL VOLTAGE REVERSING
 2V - TWO SPEED
 RVAT - REDUCED VOLTAGE AUTO TRANSFORMER SCHEDULE NUMBER (IF REQUIRED)

C - CONTROL DIAGRAM OR CONTROLS SCHEDULE NUMBER (IF REQUIRED)

D - CONTROLLER TYPE
 VFD - VARIABLE FREQUENCY DRIVE
 SS - SOLID STATE
 CONT - CONTACTOR

SEPARATELY MOUNTED COMBINATION MOTOR STARTER OR CONTROLLER; SEE ELECTRICAL ONE - LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION

SEPARATELY MOUNTED MOTOR STARTER OR CONTROLLER; SEE ELECTRICAL ONE-LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION.

NON-FUSED SAFETY SWITCH, 30A, 3P, X INDICATES AMP RATING GREATER THAN 30A

FUSED SAFETY SWITCH, 3P, X INDICATES AMP RATING GREATER THAN 30A, Y INDICATES FUSE SIZE

SEPARATELY MOUNTED CIRCUIT BREAKER; SEE ELECTRICAL ONE - LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION

MOTOR WITH DESIGN HORSEPOWER (WHEN INDICATED)

GENERATOR

TRANSFER SWITCH, CURRENT RATING, AND NUMBER OF POLES AS NOTED

ATS - AUTOMATIC
 MTS - MANUAL

TRANSFORMER
 Δ 3-PHASE, 3-WIRE DELTA CONNECTION
 ⚡ 3-PHASE, 4-WIRE GROUNDWYE CONNECTION

SWITCHBOARD OR PANELBOARD; NAME, VOLTAGE, PHASE, NUMBER OF WIRES WHEN INDICATED

NON-MOTOR LOAD WITH DESIGN KVA, KW, OR AMP

VOLTAGE TRANSFORMER (VT, PT, OR CPT)

CURRENT TRANSFORMER (CT)

UTILITY WATT-HOUR METER PER UTILITY REQUIREMENTS

DIGITAL METERING PACKAGE

GROUND

LIGHTNING ARRESTER

LOW VOLTAGE SURGE PROTECTIVE DEVICE

SELECTOR SWITCH

PUSHBUTTON

INSTRUMENTATION / CONTROL DEVICE

SOLENOID VALVE

CONTROL PANEL INTEGRAL OR PROVIDED WITH ASSOCIATED EQUIPMENT

CONTROL PANEL WITH DISCONNECT SWITCH INTEGRAL OR PROVIDED WITH ASSOCIATED EQUIPMENT

JUNCTION OR PULL BOX

PANELBOARD (250V TO 600V)

PANELBOARD (LESS THAN 250V)

ELECTRICAL EQUIPMENT ENCLOSURE, SWITCHBOARD, MOTOR CONTROL CENTER, CONTROL PANEL, TRANSFORMER OR OTHER EQUIPMENT AS INDICATED. ESTIMATED SIZE AS INDICATED. WHEN USED X INDICATES EQUIPMENT TYPE.

EQUIPMENT TYPES:
 ATS - AUTOMATIC TRANSFER SWITCH
 MTS - MANUAL TRANSFER SWITCH
 MCC - MOTOR CONTROL CENTER
 UPS - UNINTERRUPTIBLE POWER SUPPLY
 VFD - VARIABLE FREQUENCY DRIVE
 SB - SWITCHBOARD
 SG - SWITCHGEAR
 T - TRANSFORMER

CEILING/PENDANT/BOLLARD MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

CEILING/PENDANT/BOLLARD MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)

WALL MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

WALL MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)

WALL MOUNTED FLOOD LUMINAIRE, LAMP TYPE AS SPECIFIED

POLE/STANCHION MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

POLE/STANCHION MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)

POLE/STANCHION MOUNTED FLOOR LUMINAIRE, LAMP TYPE AS SPECIFIED

CEILING/PENDANT MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

WALL MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

CEILING/PENDANT MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, ALL OR PARTIAL EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)

WALL MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, ALL OR PARTIAL EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)

EMERGENCY LIGHT, NUMBER OF ATTACHED HEADS AS SHOWN

EMERGENCY LIGHT, REMOTE MOUNTED HEAD

DOUBLE-FACED CEILING OR WALL MOUNTED EXIT LIGHT; DIRECTIONAL ARROWS (IF REQUIRED) AS INDICATED ON PLANS

SINGLE-FACED CEILING OR WALL MOUNTED EXIT LIGHT; DIRECTIONAL ARROWS (IF REQUIRED) AS INDICATED ON PLANS

LIGHTING FIXTURE SUBSCRIPTS:
 X - INDICATES LUMINAIRE TYPE PER LUMINAIRE SCHEDULE
 Y - INDICATES CIRCUIT NUMBER FROM PANELBOARD
 Z - INDICATES CONTROLLING SWITCH (IF REQUIRED)
 NL - NIGHT LIGHT UNSWITCHED

WALL SWITCH
 SUBSCRIPTS:
 X - INDICATES TYPE
 NONE - SINGLE POLE
 2 - DOUBLE POLE
 3 - THREE-WAY
 4 - FOUR-WAY
 K - KEY SWITCH
 P - PILOT LIGHT
 L - LIGHTED HANDLE
 DM - DIMMING
 MC - MULTICONTACTARY CONTACT
 T - TIMER

Y - INDICATES CONTROLLING SWITCH (IF REQUIRED)

MANUAL MOTOR STARTER
 SUBSCRIPTS:
 X - INDICATES TYPE

PHOTOCELL

TIME CLOCK

LIGHTING CONTROL, OCCUPANCY SENSOR, WALL MOUNTED, X INDICATES SPECIFIC TYPE AS SPECIFIED

LIGHTING CONTROL, OCCUPANCY SENSOR, CEILING MOUNTED, X INDICATES SPECIFIC TYPE AS SPECIFIED

ROOM/AREA LIGHTING CONTROL TYPE
 SEE LIGHTING CONTROL SCHEDULE FOR REQUIREMENTS

LOW VOLTAGE DIGITAL WALL SWITCH, NUMBER INDICATES QUANTITY OF PUSH BUTTONS PER SINGLE GANG PLATE, LETTER INDICATES CONTROL ZONE WHEN SHOWN

PLUG-IN RECEPTACLE STRIP, QUANTITY AND SPACING OF RECEPTACLES AS NOTED OR SPECIFIED

SPECIAL-PURPOSE RECEPTACLE AS DEFINED ON PLANS

TWO RECEPTACLES IN 2-GANG BOX UNDER COMMON COVER PLATE

DUPLEX RECEPTACLE

SIMPLEX RECEPTACLE

RECESSED FLOOR MOUNTED BOX, QUANTITY AND TYPE OF RECEPTACLES AS INDICATED

SUBSCRIPTS:
 X - INDICATES TYPE
 GFCI - GROUND FAULT CIRCUIT INTERRUPTER
 G - GROUND RESISTANT
 TR - TRIP RESISTANT
 PLD - PLUG LOAD HALF CONTROLLED
 PLD - PLUG LOAD DUAL CONTROLLED
 USB - USB CHARGING STATION
 SPD - SURGE PROTECTIVE DEVICE

Y - INDICATES CIRCUIT NUMBER FROM PANELBOARD

CONDUIT TURNING UP

CONDUIT TURNING DOWN

HOMERUN TO SOURCE (E.G. PANELBOARD, MCC) NUMBER IN PARENTHESES REPRESENTS CONDUCTOR SIZE OTHER THAN #12 SINGLE PHASE, #2#12, #1#12G IN 3/4" THREE PHASE, #3#12, #1#12G IN 3/4" UNLESS OTHERWISE NOTED. CONDUCTOR SIZE IS FOR ENTIRE CIRCUIT, SOURCE TO LAST DEVICE. ALSO, SEE ONE LINE DIAGRAM FOR CIRCUIT REQUIREMENTS

CONDUIT CONNECTION TO EQUIPMENT

CIRCUIT RUN BETWEEN DEVICES EXPOSED IN NON-ARCHITECTURALLY FINISHED AREAS; CONCEALED IN ARCHITECTURALLY FINISHED AREAS; CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.

CONDUIT RUN BETWEEN DEVICES CONCEALED IN NON-ARCHITECTURALLY FINISHED AREAS OR UNDER FLOOR SLAB; CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.

CIRCUIT HASH MARKS (WHEN INDICATED); LONG SHORT, SINGLE DOT, AND DOUBLE DOT REPRESENT PHASE, NEUTRAL, EQUIPMENT GROUND, AND ISOLATED EQUIPMENT GROUND, RESPECTIVELY. X REPRESENTS CONDUCTOR SIZE OTHER THAN #12 IN 3/4" CONDUIT.

CIRCUIT CONTINUATION

CONDUIT STUBBED OUT AND CAPPED

CORD AND PLUG CONNECTION

CONDUIT TAG OR CIRCUIT NUMBER - WIRE AND CONDUIT SIZE AS SPECIFIED IN CIRCUIT SCHEDULE ON THE SHEETS

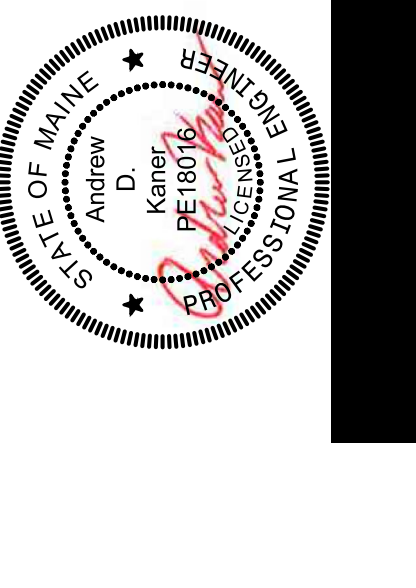
GROUND CABLE

GROUND ROD

GENERAL NOTES:
 1. THIS IS A STANDARD ELECTRICAL SYMBOLOLOGY SHEET. NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.
 2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
 3. SEE R&I LEGEND SHEET FOR PROJECT SPECIFIC EQUIPMENT SYMBOLS, EQUIPMENT ABBREVIATIONS, AND PIPING SYSTEM ABBREVIATIONS.

ISSUE	DATE	ISSUED FOR BID	DESCRIPTION
	07/14/2023		

PROJECT MANAGER	ANDREW GURSKI	PROJECT NUMBER	10357686
CIVIL	J. GAGNON		
STRUCTURAL	B. BRADLEY		
ARCHITECTURAL	M. BASKIN		
PROCESS	J. CHANDLER		
MECHANICAL	J. CHANDLER		
ELECTRICAL	A. KANER		



IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

ELECTRICAL LEGEND 1

SCALE NONE

FILENAME 10357686-00-G.rvt

SHEET 00G-006

COMMUNICATION SYMBOLOGY

- WALL MOUNTED TELEPHONE OUTLET
- WALL MOUNTED DATA OUTLET
- WALL MOUNTED COMBINATION TELEPHONE AND DATA OUTLET
- RECESSED FLOOR MOUNTED TELEPHONE OUTLET
- RECESSED FLOOR MOUNTED DATA OUTLET
- RECESSED FLOOR MOUNTED COMBINATION TELEPHONE AND DATA OUTLET

AUDIOMISUAL SYMBOLOGY

- TELEVISION OUTLET
- CEILING MOUNT SPEAKER
- WALL MOUNT SPEAKER
- SPEAKER SUBSCRIPTS:
X - INDICATES HEIGHT
- HORN TYPE TRANSDUCER
- VOLUME CONTROL
- HEAD END EQUIPMENT
- FLOOR MOUNTED MICROPHONE JACK
- WALL MOUNTED MICROPHONE JACK

SECURITY SYMBOLOGY

- DOOR POSITION SWITCH
- COMBINATION ELECTRIC DOOR STRIKE AND POSITION SWITCH
- PROXIMITY CARD READER
- PROXIMITY CARD READER WITH KEYPAD
- DUAL TECHNOLOGY MOTION DETECTOR
- REQUEST TO EXIT MOTION DETECTOR
- REQUEST TO EXIT PUSH BUTTON
- GLASS BREAK DETECTOR
- CCTV CAMERA PAN/TILT/ZOOM WHEN INDICATED
- SECURITY EQUIPMENT CABINET
- REMOTE KEYPAD/CONTROL STATION

EMERGENCY ALARM SYMBOLOGY

- ALARM BELL
- ALARM HORN
- ALARM FLASHING LIGHT
- ALARM BELL AND FLASHING LIGHT COMBINATION UNIT
- ALARM HORN AND FLASHING LIGHT COMBINATION UNIT
- PUSHBUTTON OR PULLSTATION

SITE SYMBOLOGY

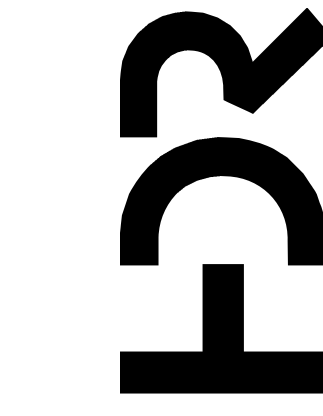
- EXTERIOR PAD MOUNTED TRANSFORMER
- POLE - MOUNTED TRANSFORMER
- ELECTRICAL HANDHOLE OR MANHOLE
X - INDICATES SEQUENCE NUMBER
Y - IMX OR HHX
- POLE/STANCHION MOUNTED FLOOD LUMINAIRE, LAMP TYPE AS SPECIFIED
- POLE MOUNTED AREA OR ROADWAY LUMINAIRE, LAMP TYPE AS SPECIFIED
- HIGH MAST LIGHTING, NUMBER OF LUMINAIRES AS SPECIFIED
- LIGHTING FIXTURE SUBSCRIPTS:
X - INDICATES LUMINAIRE TYPE PER LUMINAIRE SCHEDULE
Y - INDICATES CIRCUIT NUMBER FROM PANELBOARD
- POWER POLE
- DOWNGUY
- UNDERGROUND (UNO) ELECTRICAL AND COMMUNICATION SYSTEMS PATHWAY
- OVERHEAD ELECTRICAL AND COMMUNICATION SYSTEMS PATHWAY

CONTROL SYMBOLOGY

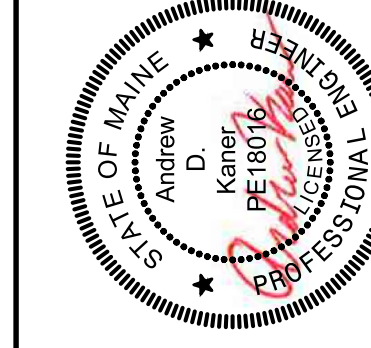
- ELECTRICAL CONNECTION
- NO ELECTRICAL CONNECTION
- SOLENOID VALVE
- CONTROL/RELAY COIL:
X-INDICATES TYPE
Y-INDICATES LOOP NUMBER, WHEN USED
- TYPES:
CR-CONTROL RELAY
PC-PHOTOCELL
DP-DEFINITE PURPOSE
M-MOTOR STARTER
N-NORMALLY OPEN CONTACT (N.O.)
- NORMALLY CLOSED CONTACT (N.C.)
- NORMALLY OPEN TIME DELAY RELAY CONTACT WITH TIME DELAY ON CLOSING AFTER COIL IS ENERGIZED
- NORMALLY CLOSED TIME DELAY RELAY CONTACT WITH TIME DELAY ON OPENING AFTER COIL IS DE-ENERGIZED
- NORMALLY CLOSED TIME DELAY RELAY CONTACT WITH TIME DELAY ON CLOSING AFTER COIL IS DE-ENERGIZED
- NORMALLY OPEN TEMPERATURE SWITCH; CLOSE ON RISING TEMPERATURE
- NORMALLY CLOSED TEMPERATURE SWITCH; OPEN ON RISING TEMPERATURE
- NORMALLY OPEN FLOW SWITCH; CLOSE ON INCREASING FLOW
- NORMALLY CLOSED FLOW SWITCH; OPEN ON INCREASING FLOW
- NORMALLY OPEN LEVEL SWITCH; CLOSE ON RISING LEVEL
- NORMALLY CLOSED LEVEL SWITCH; OPEN ON RISING LEVEL
- NORMALLY OPEN PRESSURE SWITCH; CLOSE ON INCREASING PRESSURE
- NORMALLY CLOSED PRESSURE SWITCH; OPEN ON INCREASING PRESSURE
- NORMALLY OPEN LIMIT SWITCH; CLOSE ON REACHING LIMIT
- NORMALLY CLOSED LIMIT SWITCH; OPEN ON REACHING LIMIT
- MICROPROCESSOR (P.L.C. RTU, ETC.) OUTPUT
- MICROPROCESSOR (P.L.C. RTU, ETC.) INPUT
- FIELD WIRING EXTERNAL TO CONTROL PANEL
- 3 POSITION SELECTOR SWITCH, MAINTAINED CONTACTS; UNLESS OTHERWISE NOTED, 2-POSITION SIMILAR
- NORMALLY OPEN PUSHBUTTON, MOMENTARY CONTACT UNLESS OTHERWISE NOTED
- NORMALLY CLOSED PUSHBUTTON, MOMENTARY CONTACT UNLESS OTHERWISE NOTED

CONTROL SYMBOLOGY

- INDICATING LIGHT; X INDICATES LENS COLOR
- PUSH TO TEST INDICATING LIGHT; X INDICATES LENS COLOR
- LENS COLORS:
R - RED
G - GREEN
B - BLUE
Y - YELLOW
W - WHITE
A - AMBER
- THERMAL OVERLOAD ELEMENT
- THERMAL OVERLOAD RELAY CONTACT, WHEN SHOWN X INDICATES QUANTITY.
- CONTROL POWER TRANSFORMER (CPT)
- RUN TIME METER

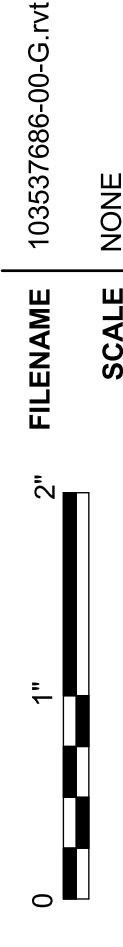


PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



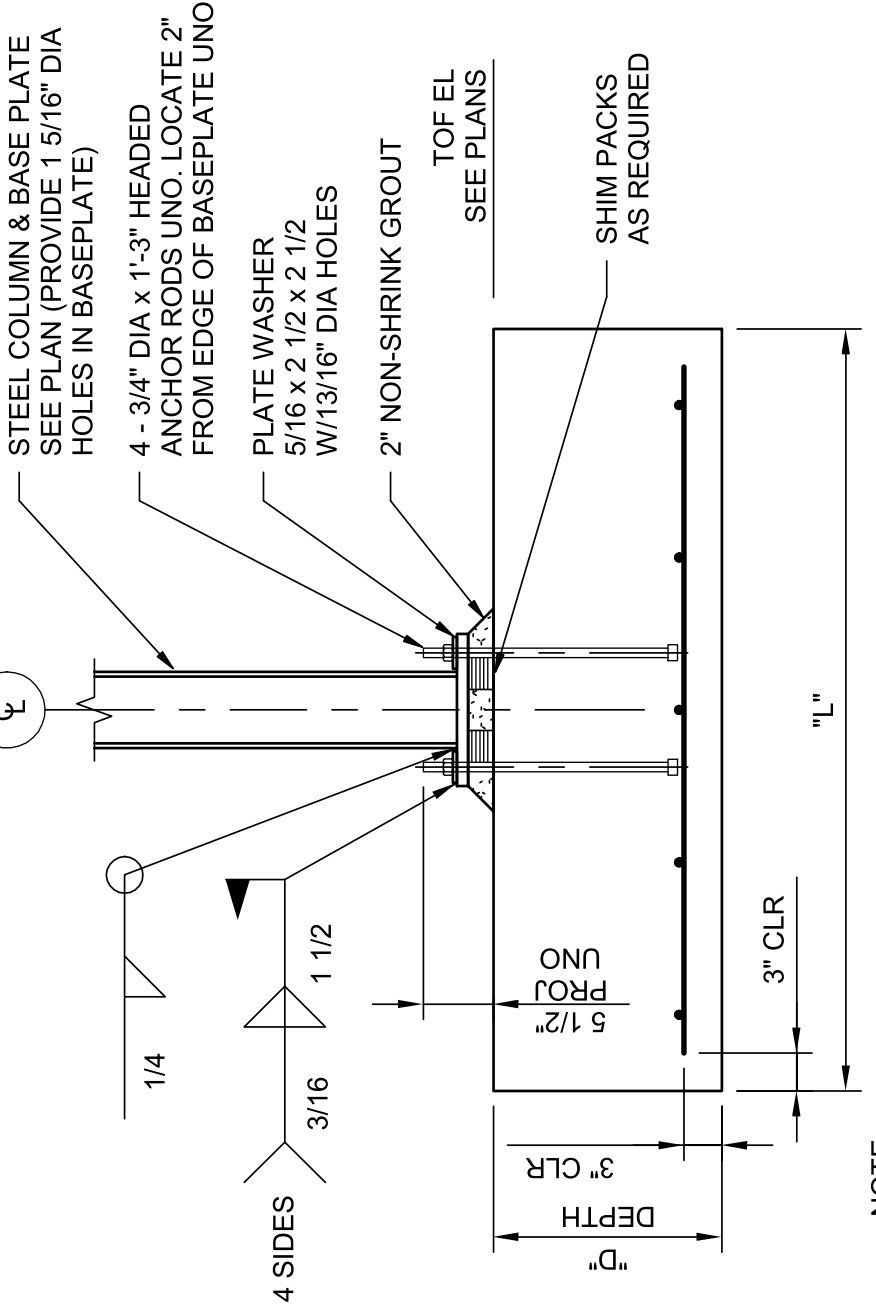
Digitally signed by Kaner, Andrew D
Date: 2023.07.14 14:20:14-05'00'

ELECTRICAL LEGEND 2



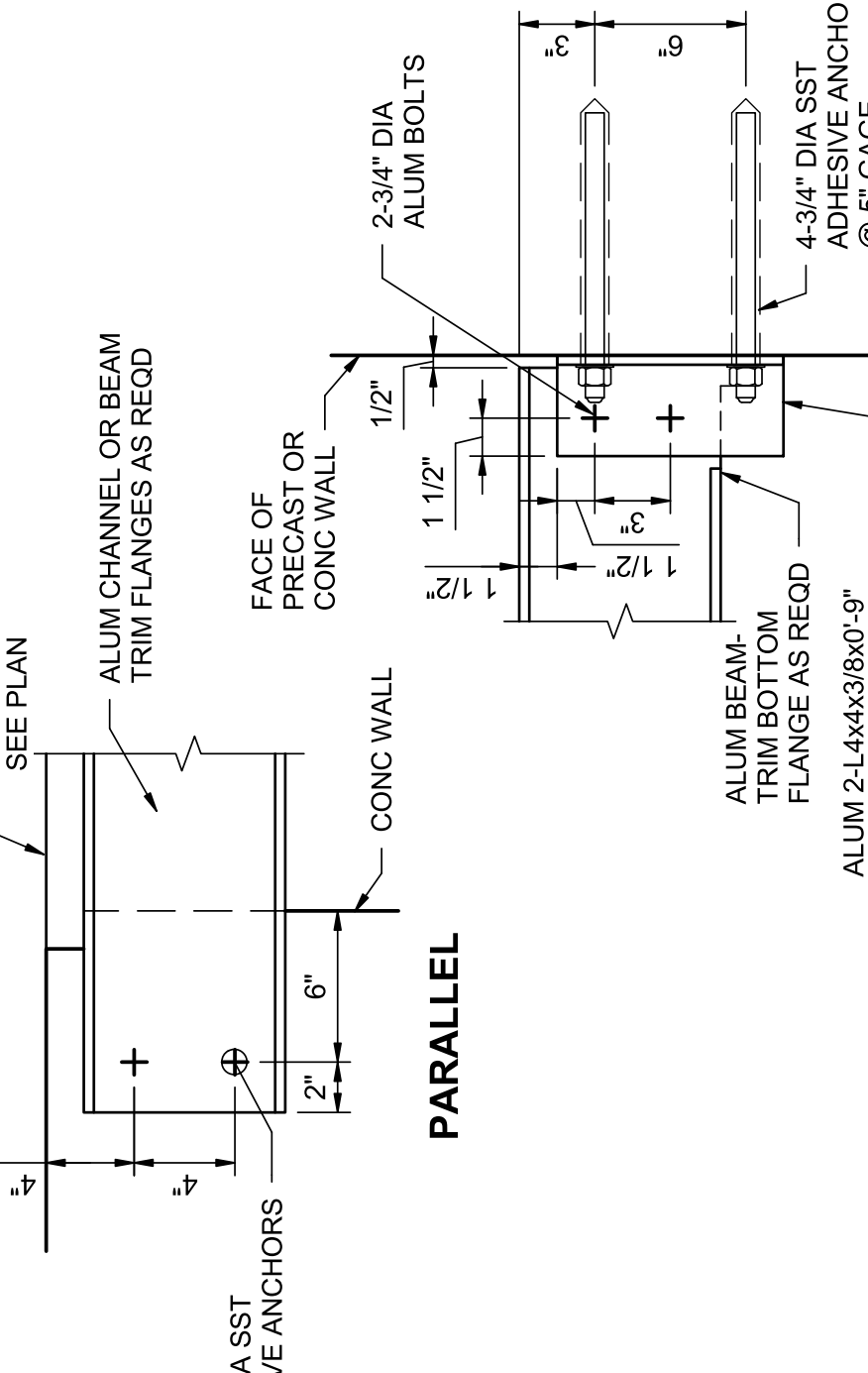
ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	

REINFORCING BARS		ANCHOR BOLTS/RODS	
BAR SIZE	EMBED LENGTH (L)	DIA (IN)	EMBED LENGTH (L)
#3	4"	3/8"	5"
#4	5"	1/2"	6"
#5	6"	5/8"	7"
#6	7"	3/4"	8"
#7	8"	7/8"	9"
#8	9"	1"	10"
#9	10"		
#10	12"		

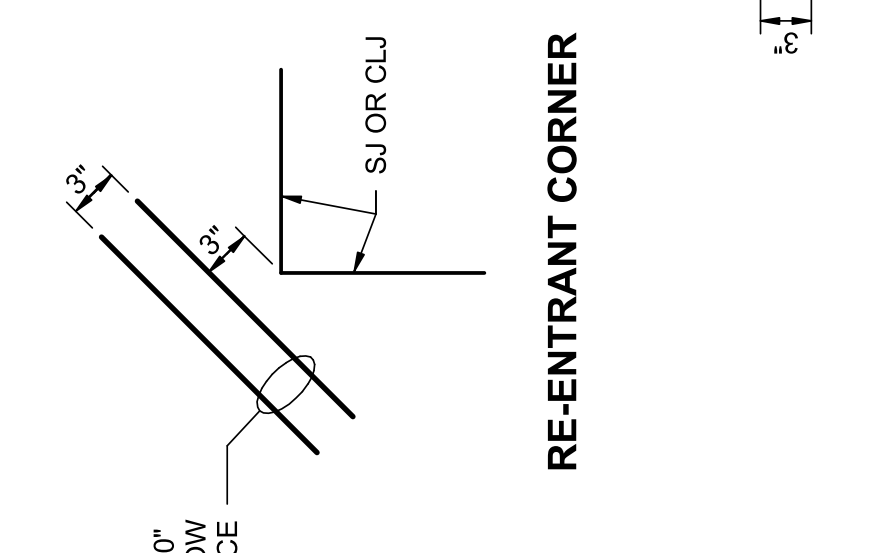


1. FOR FOOTING, SEE PLAN AND SCHEDULE FOR SIZE AND REINFORCING.

2. SPREAD FOOTING
NOT TO SCALE



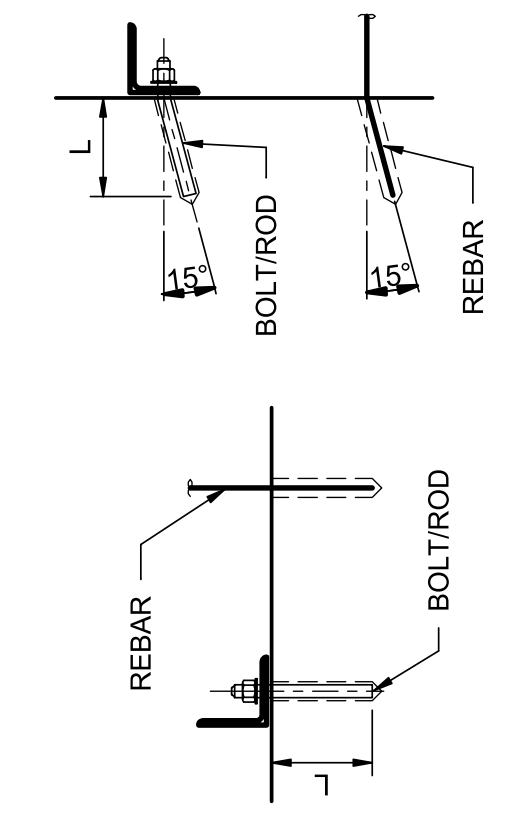
3. ALUMINUM BEAM TO WALL CONNECTION
NOT TO SCALE



RE-ENTRANT CORNER

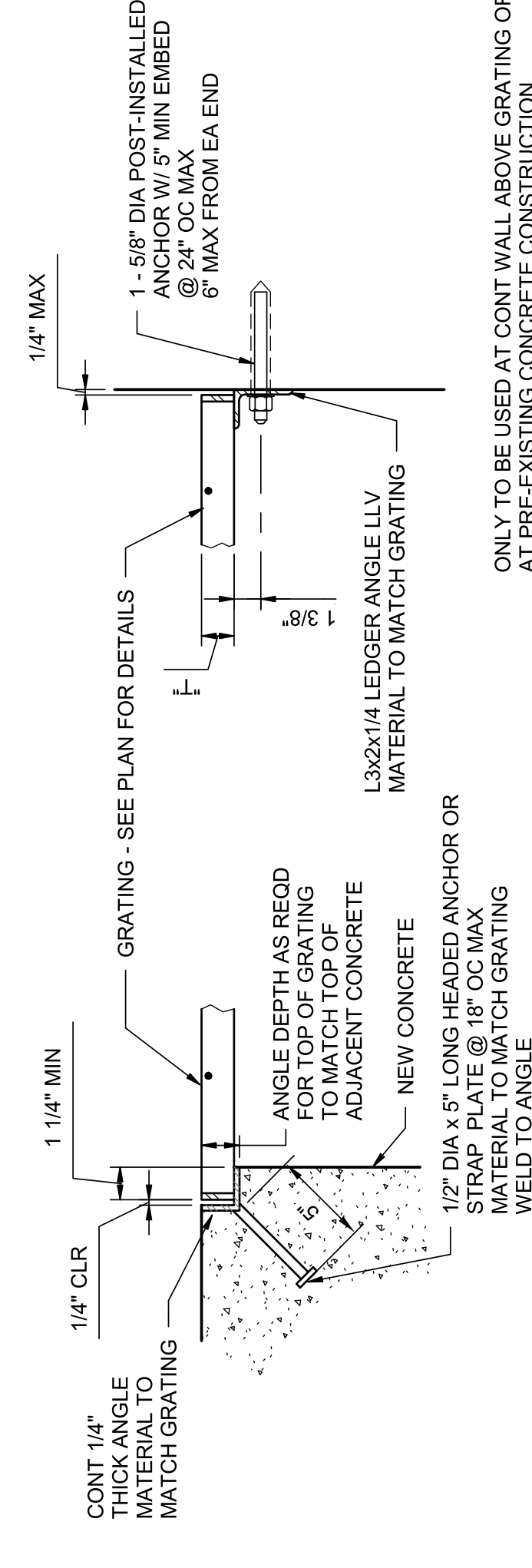
4. ADDITIONAL SLAB REINFORCING
NOT TO SCALE

DISCONTINUOUS JOINT INTERSECTION

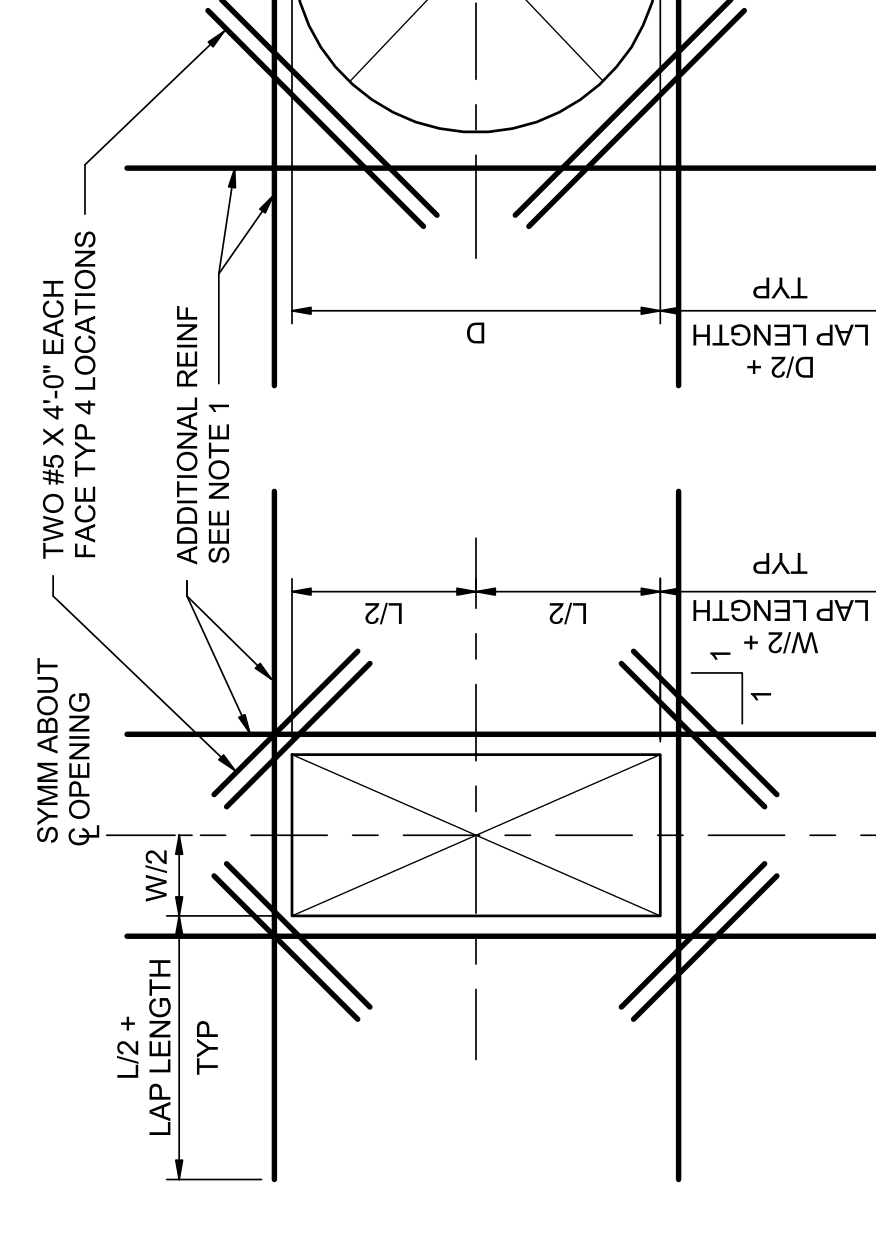


1. ADHESIVE TYPE IS SUBJECT TO APPROVAL OF THE ENGINEER OF RECORD.
2. EMBEDMENT LENGTHS SHOWN ARE MINIMUM UNLESS NOTED OTHERWISE ON DRAWINGS OR AS OTHERWISE REQUIRED BY SPECIFICATIONS.
3. FOR ADDITIONAL REQUIREMENTS, SEE SPECIFICATION SECTION 03 15 19.

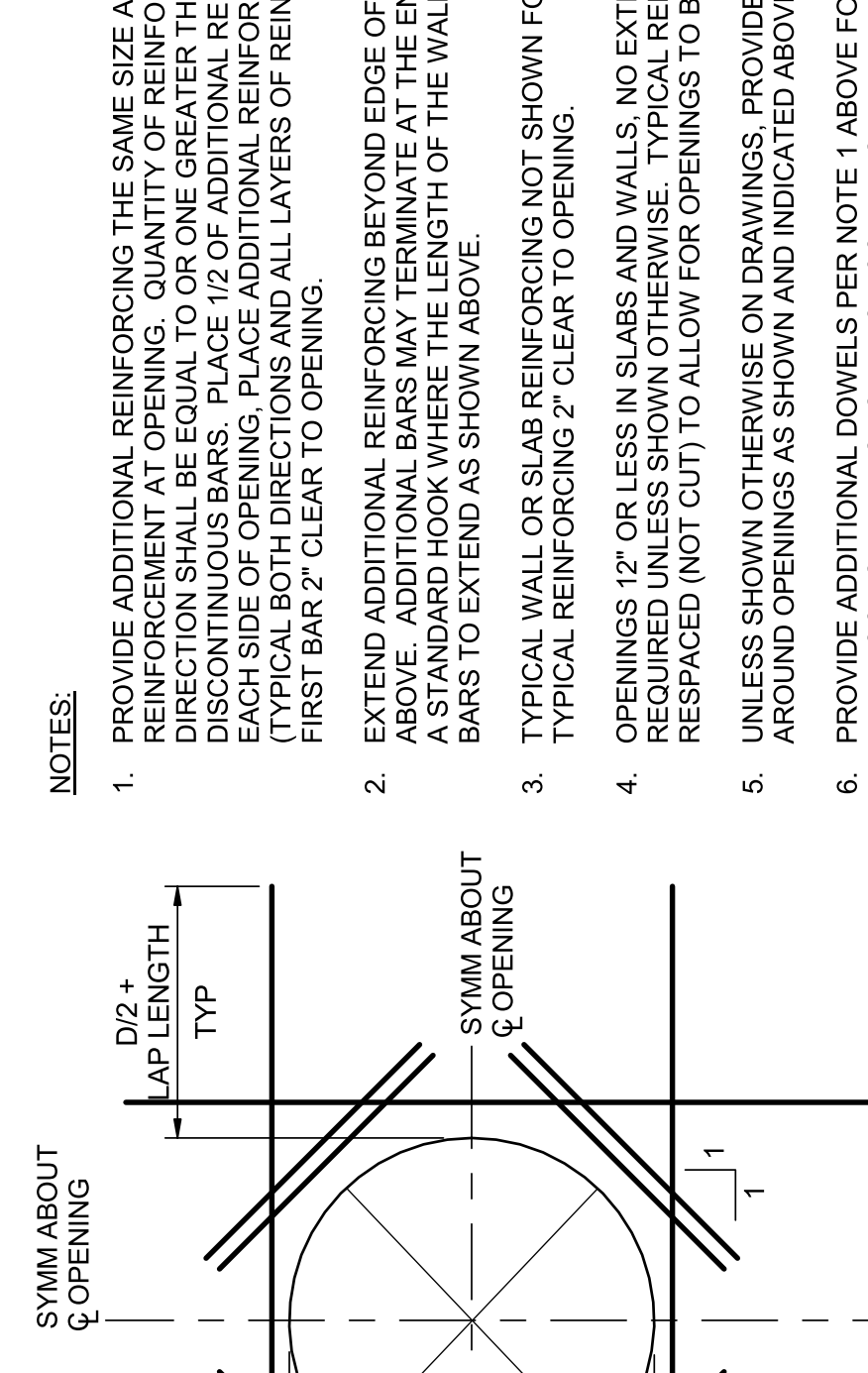
1. ADHESIVE ANCHOR DETAIL AND SCHEDULE
NOT TO SCALE



5. GRATING AND SUPPORT
NOT TO SCALE

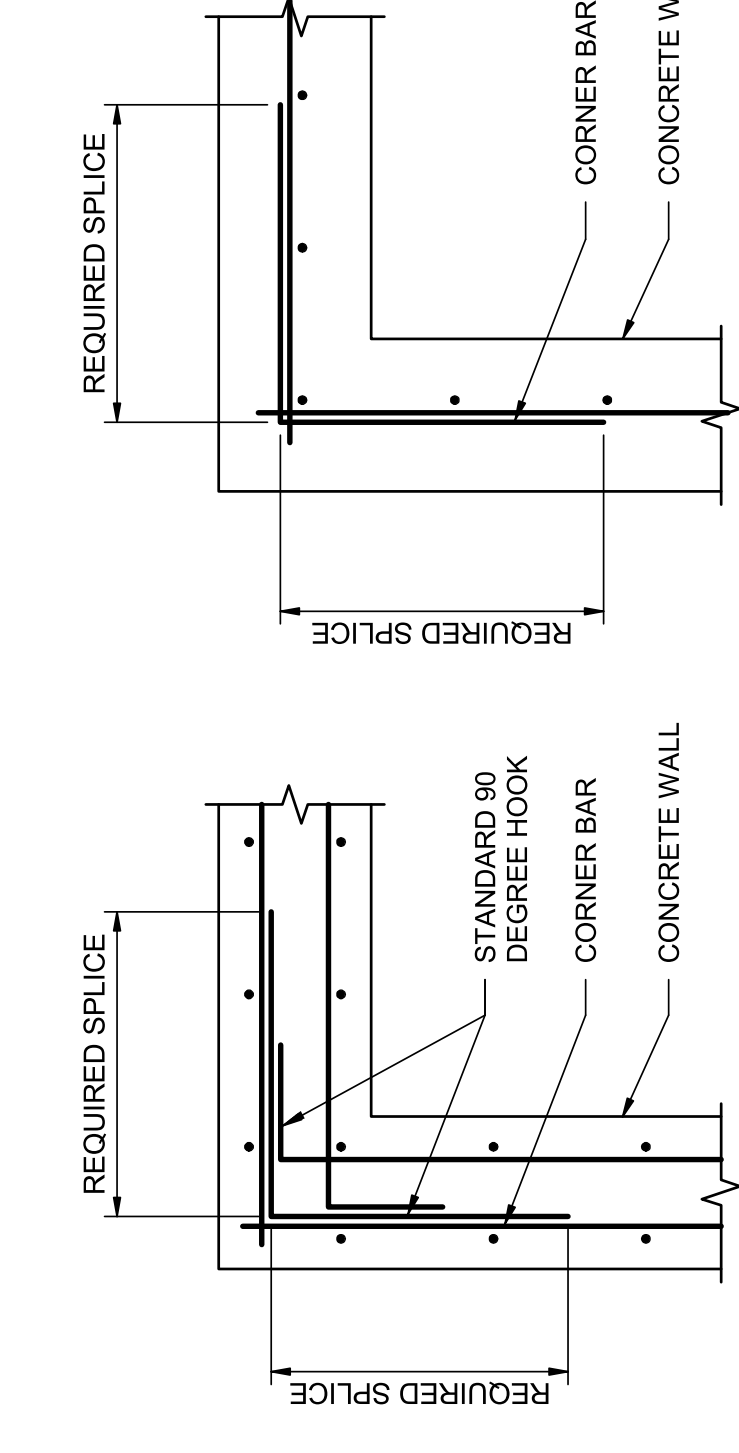


RECTANGULAR OPENING DETAIL



CIRCULAR OPENING DETAIL

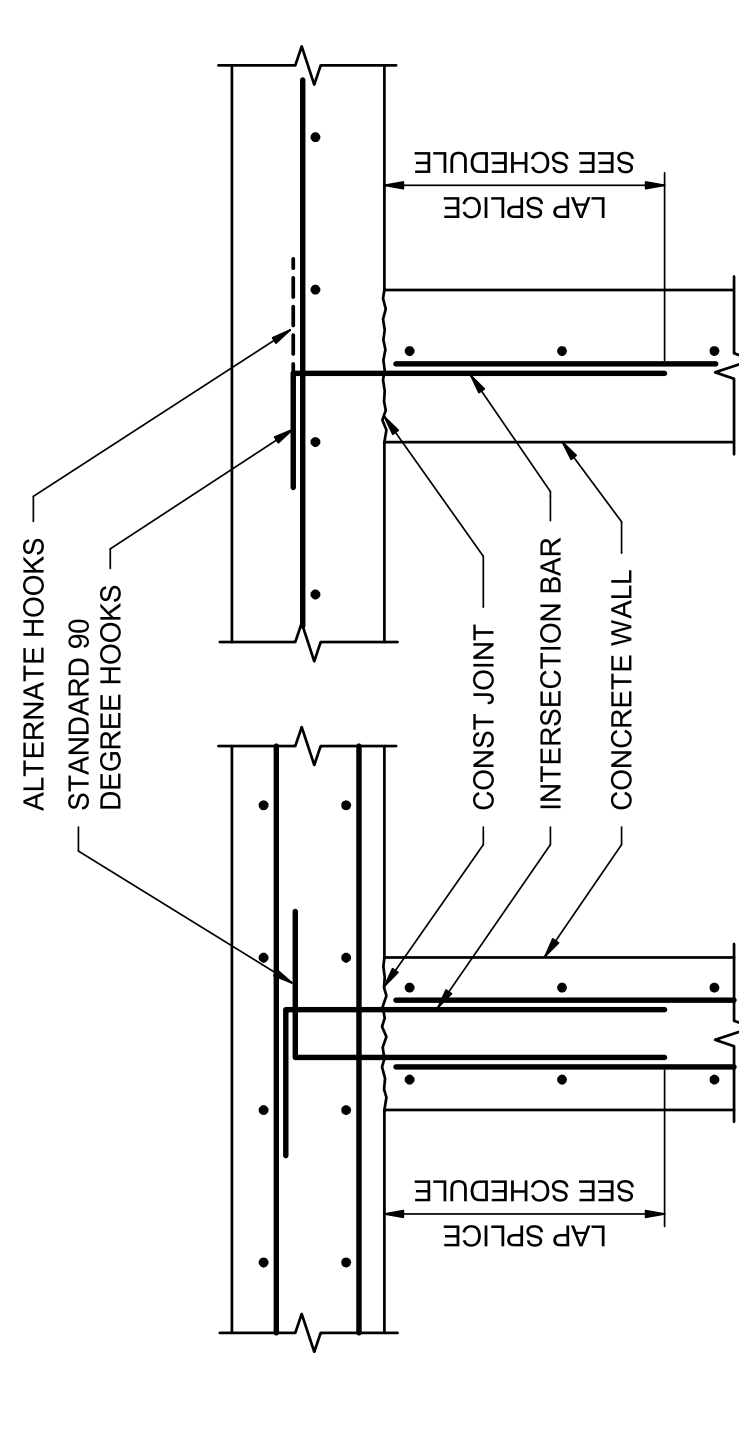
6. EXTRA REINFORCING AROUND OPENINGS
NOT TO SCALE



8. WALL REINFORCING @ CORNER
NOT TO SCALE

BAR	LAP SPLICE AND EMBEDMENT LENGTHS	
	fc = 4.0 ksi	fy = 60 ksi
#3	14"	20"
#4	19"	32"
#5	29"	46"
#6	39"	62"
#7	55"	87"
#8	69"	107"
#9	76"	116"
#10	97"	140"
#11	120"	146"

9. CONCRETE REINFORCING LAP AND EMBEDMENT SCHEDULE
NOT TO SCALE

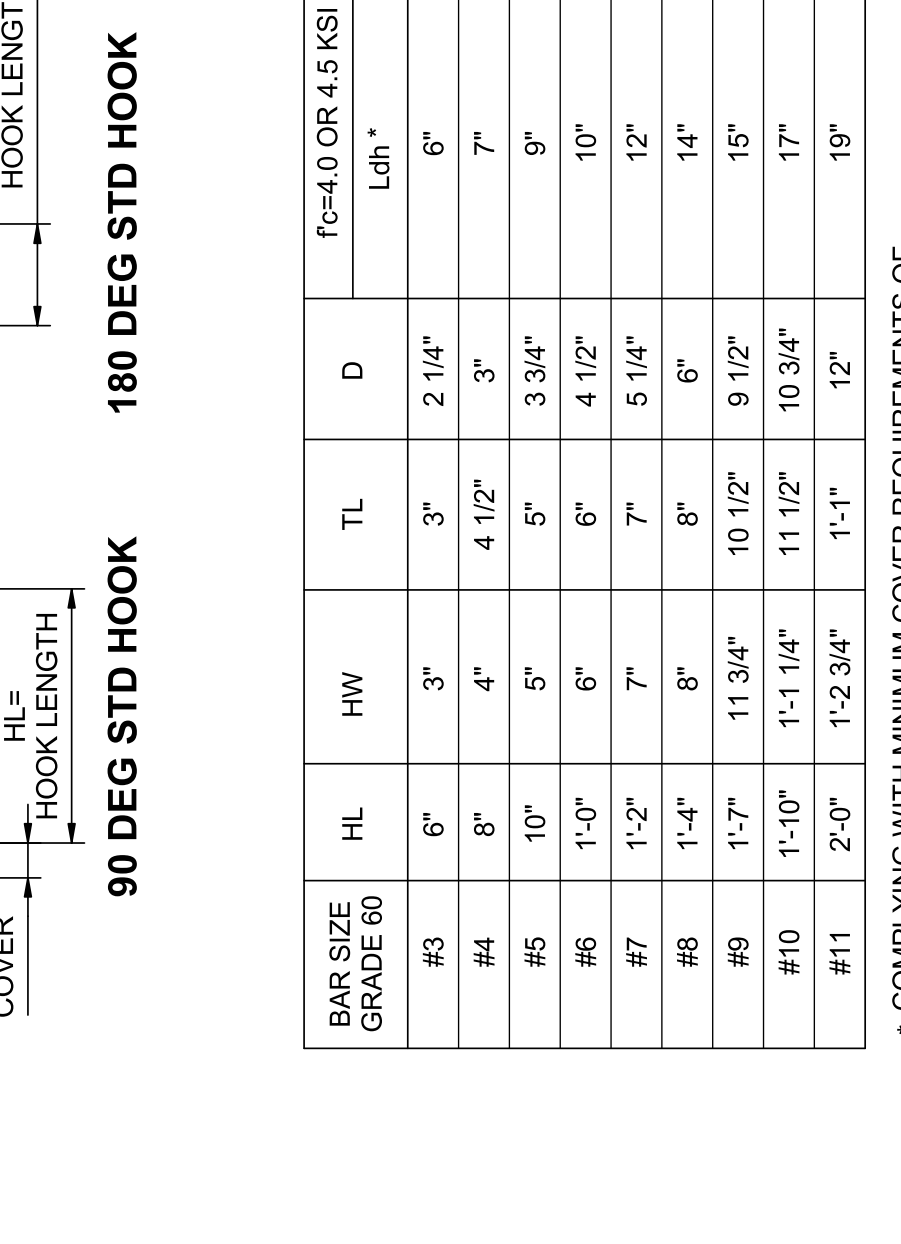


7. WALL REINFORCING @ INTERSECTION
NOT TO SCALE

1. INTERSECTION BARS TO BE SAME SPACING AS HORIZONTAL BARS.
1. CORNER BARS TO BE SAME SIZE AND SPACING AS HORIZONTAL BARS.

BAR	LAP SPLICE AND EMBEDMENT LENGTHS	
	fc = 4.0 ksi	fy = 60 ksi
#3	14"	20"
#4	19"	32"
#5	29"	46"
#6	39"	62"
#7	55"	87"
#8	69"	107"
#9	76"	116"
#10	97"	140"
#11	120"	146"

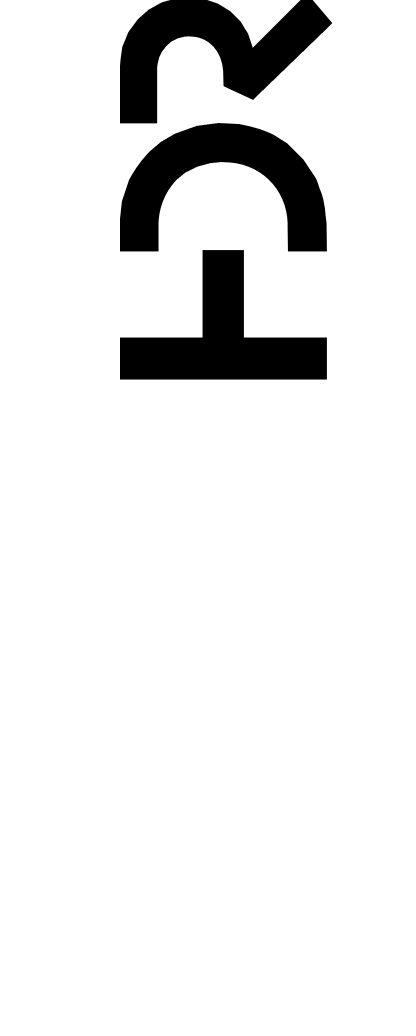
1. PROVIDE MINIMUM LAP SPLICE LENGTHS AND EMBEDMENTS PER TABLE UNLESS NOTED OTHERWISE. EMBEDMENT LENGTH EQUALS THE LAP SPLICE LENGTH UNLESS OTHERWISE NOTED.
2. BAR SPACING AT LAP SPLICE IS THE MINIMUM CLEAR DISTANCE BETWEEN LAPPED BARS PLUS ONE BAR DIAMETER.
3. ALL SPLICES TO BE CONTACT SPLICES AND WIRED TOGETHER UNLESS OTHERWISE APPROVED BY THE ENGINEER.



BAR SIZE	GRADE 60	HL	HW	TL	D	LD	fc = 4.0 OR 4.5 KSI
#3	6"	3"	3"	2 1/4"	6"		
#4	8"	4"	4 1/2"	3"	7"		
#5	10"	5"	5"	3 3/4"	9"		
#6	1-0"	6"	6"	4 1/2"	10"		
#7	1-2"	7"	7"	5 1/4"	12"		
#8	1-4"	8"	8"	6"	14"		
#9	1-7"	11 3/4"	10 1/2"	9 1/2"	15"		
#10	1-10"	1-1 1/4"	11 1/2"	10 3/4"	17"		
#11	2-0"	1-2 3/4"	1-1"	12"	19"		

10. REINFORCING HOOK SCHEDULE
NOT TO SCALE

*** COMPLYING WITH MINIMUM COVER REQUIREMENTS OF ACI 318, 12.5.3. OTHERWISE Ld MUST BE RE-CALCULATED.**

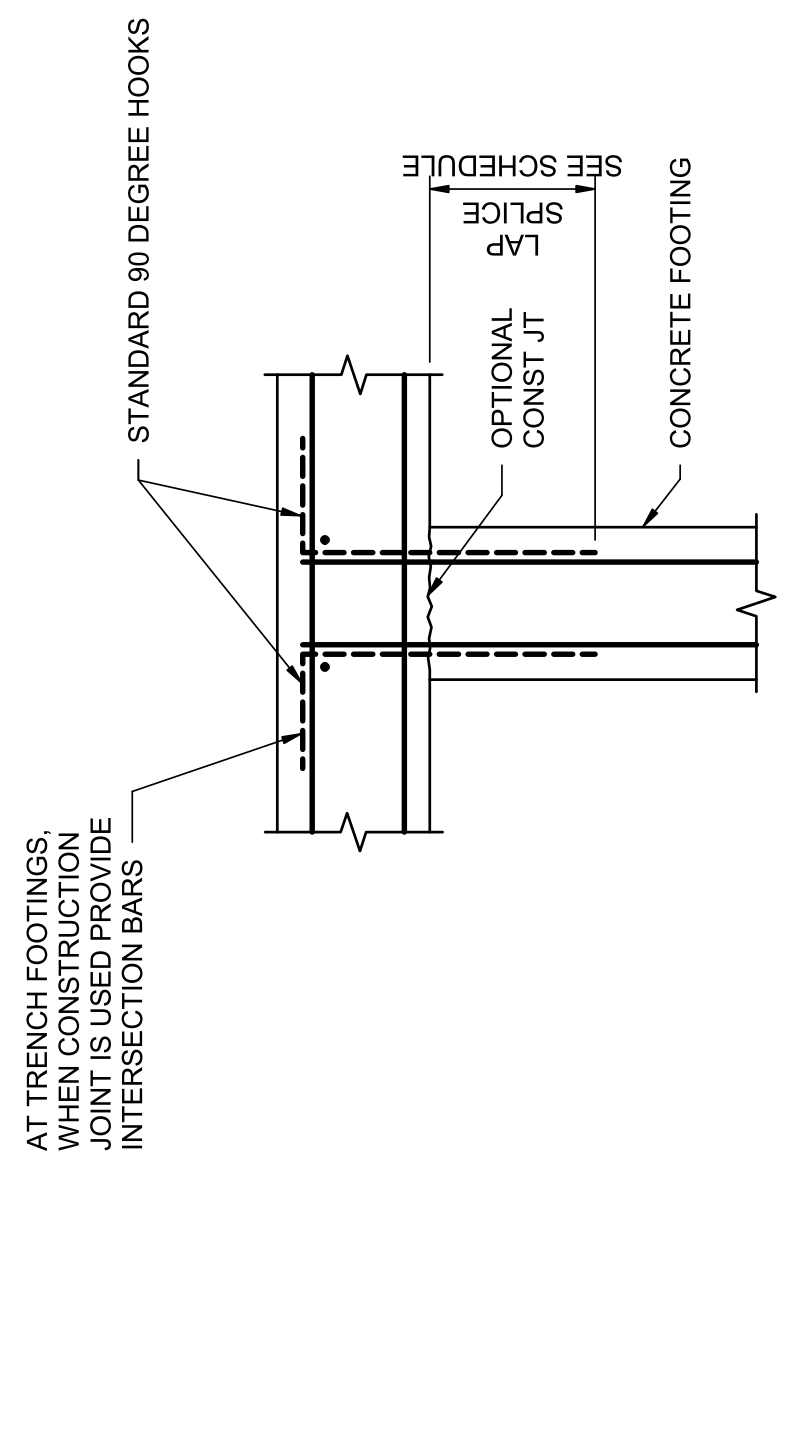


ISSUE	DATE	ISSUED FOR BID	DESCRIPTION
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PROJECT NUMBER	10357686
PROJECT MANAGER	ANDREW GURSKI
STRUCTURAL	B. BRADLEY
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PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER

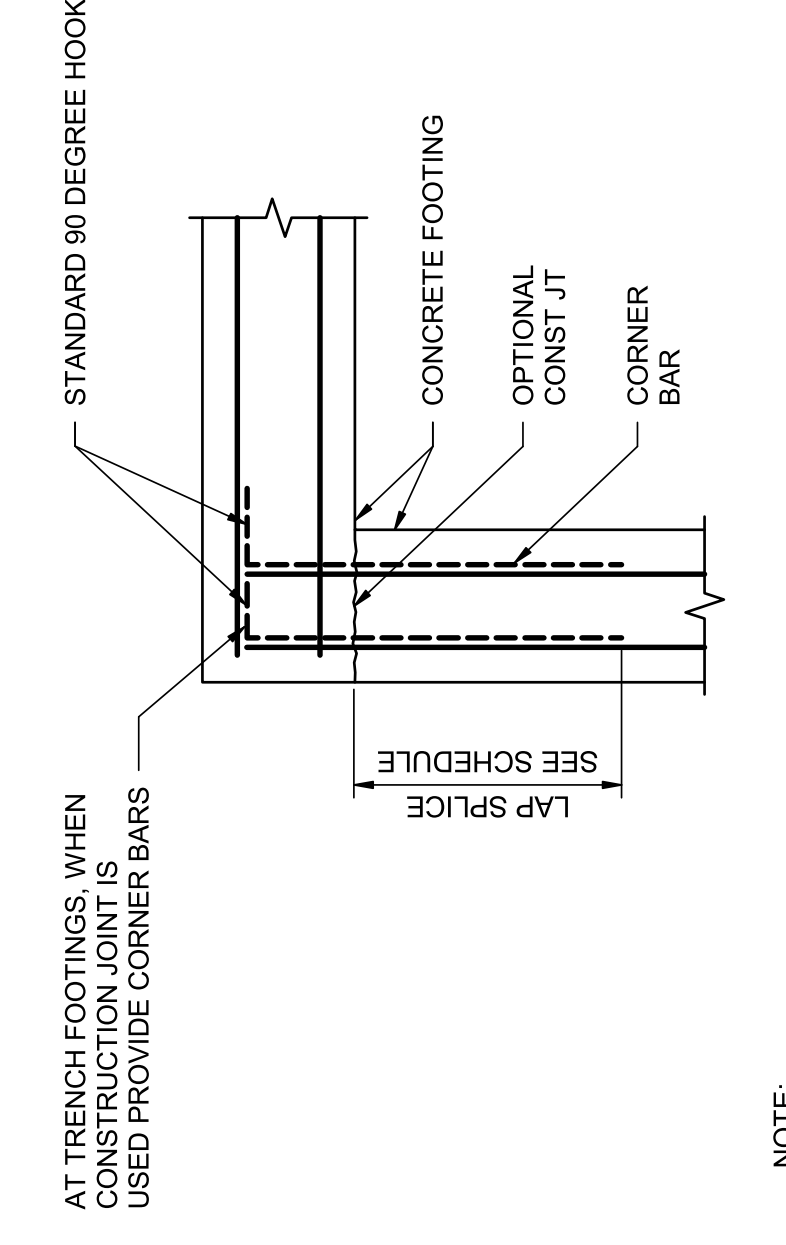
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

CIVIL J. GAGNON
STRUCTURAL B. BRADLEY
ARCHITECTURAL M. BASKIN
PROCESS J. CHANDLER
MECHANICAL J. CHANDLER
ELECTRICAL A. KANER



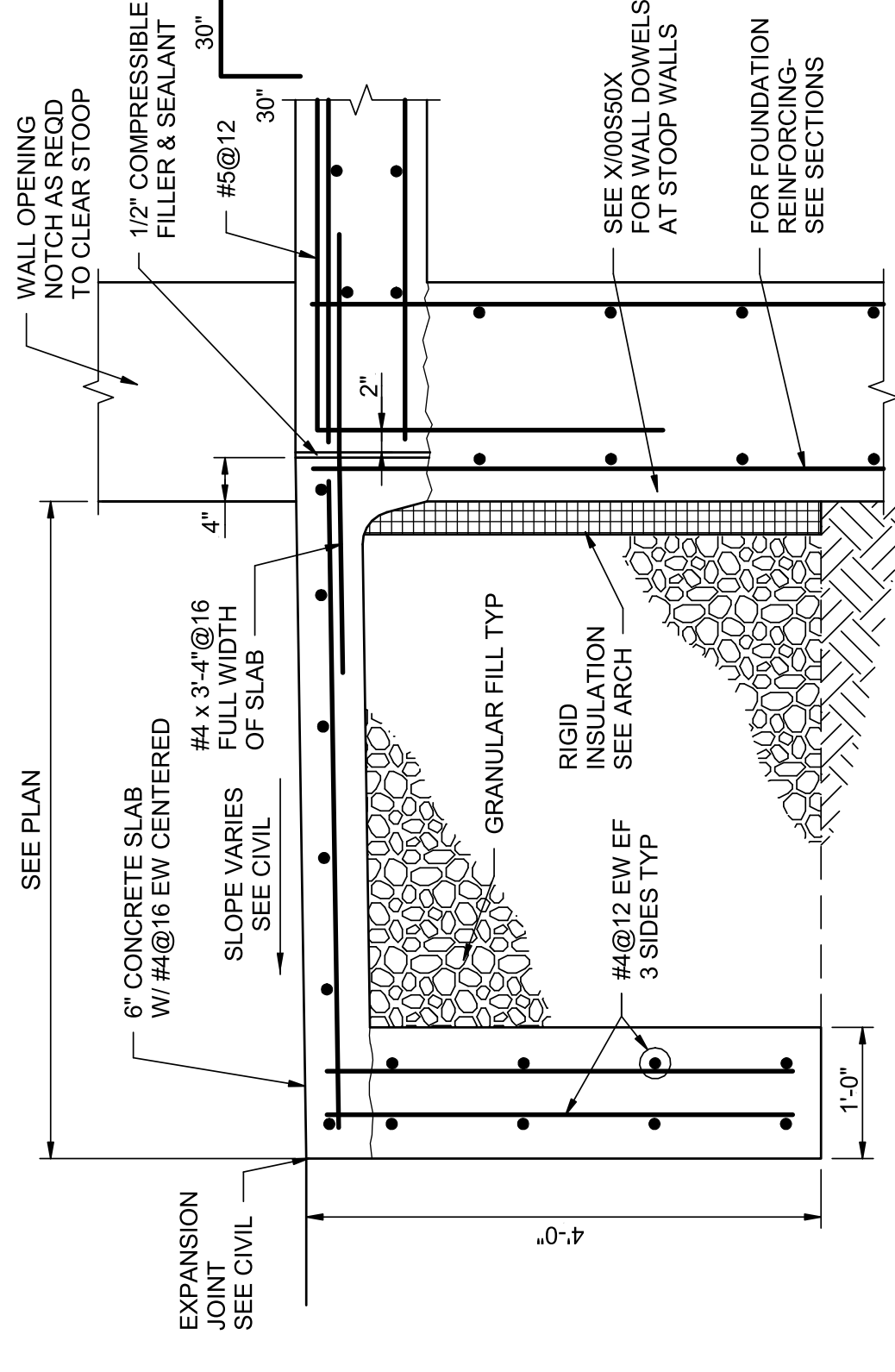
NOTE:
1. INTERSECTION BARS TO BE SAME SIZE AND SPACING AS FOOTING REINFORCING.

1 TYPICAL FOOTING REINFORCING AT INTERSECTION
NOT TO SCALE

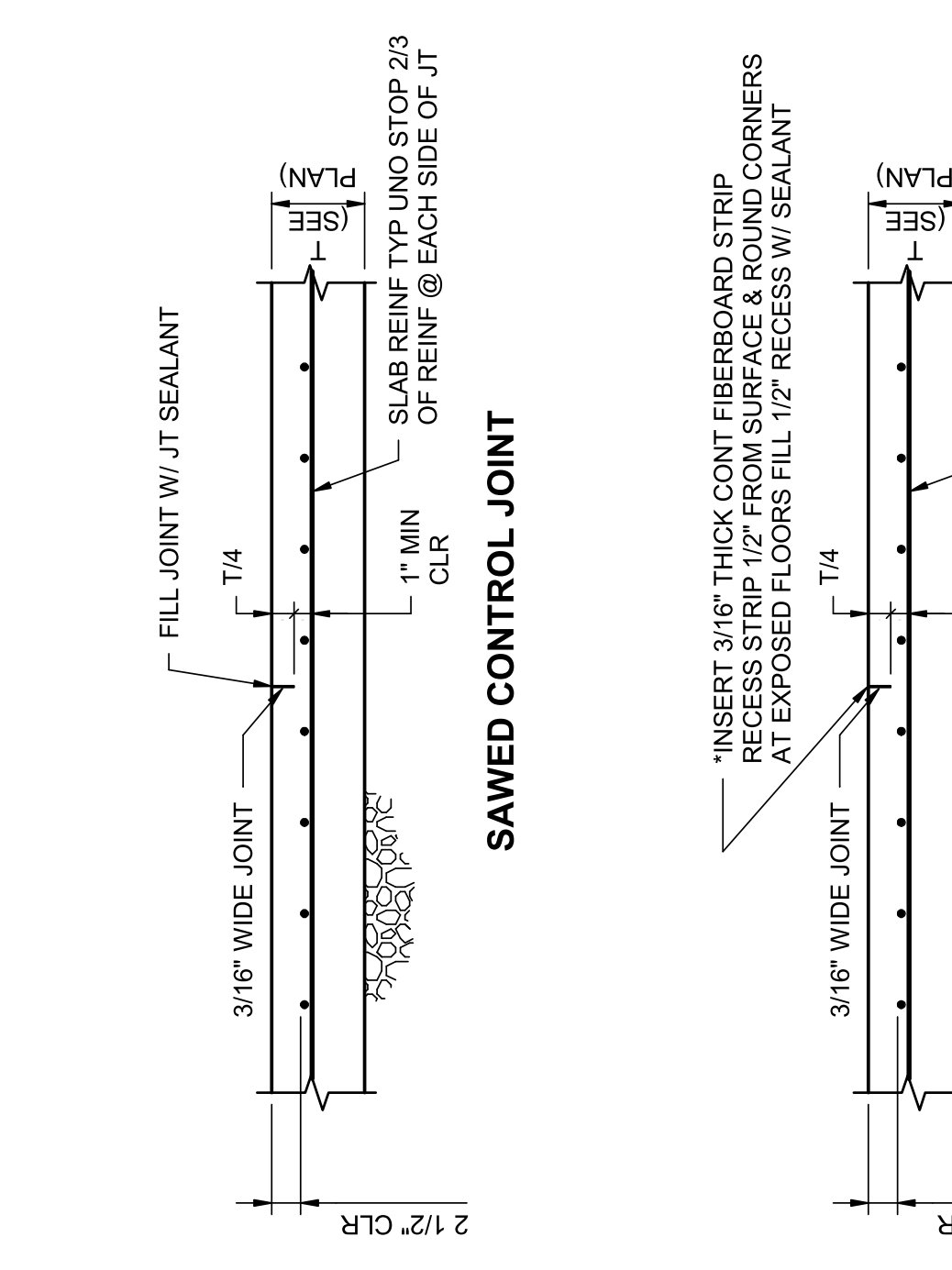


NOTE:
1. CORNER BARS TO BE SAME SIZE AND SPACING AT FOOTING REINFORCING.

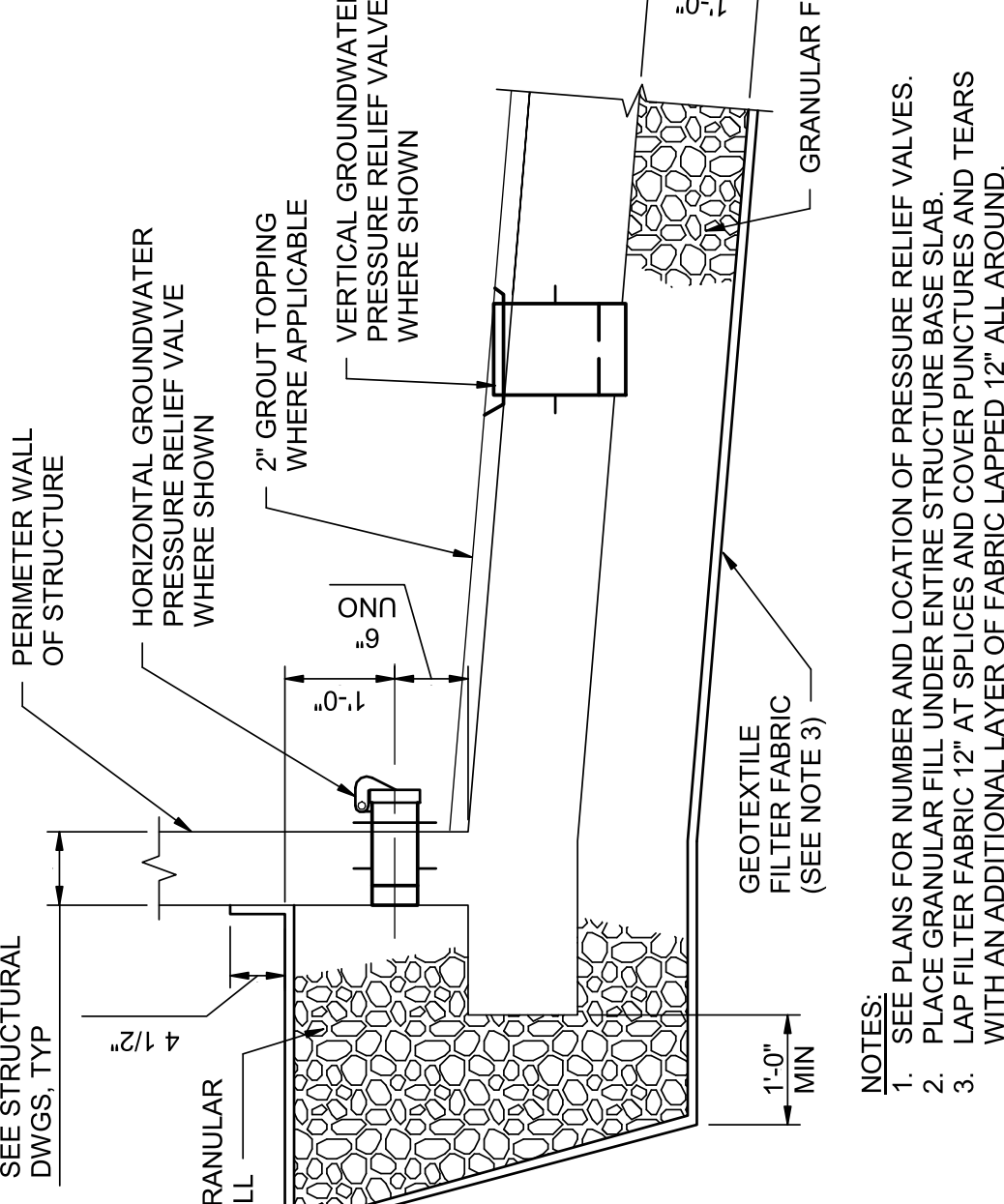
2 TYPICAL FOOTING REINFORCING AT CORNER
NOT TO SCALE



3 APPROACH SLAB
NOT TO SCALE

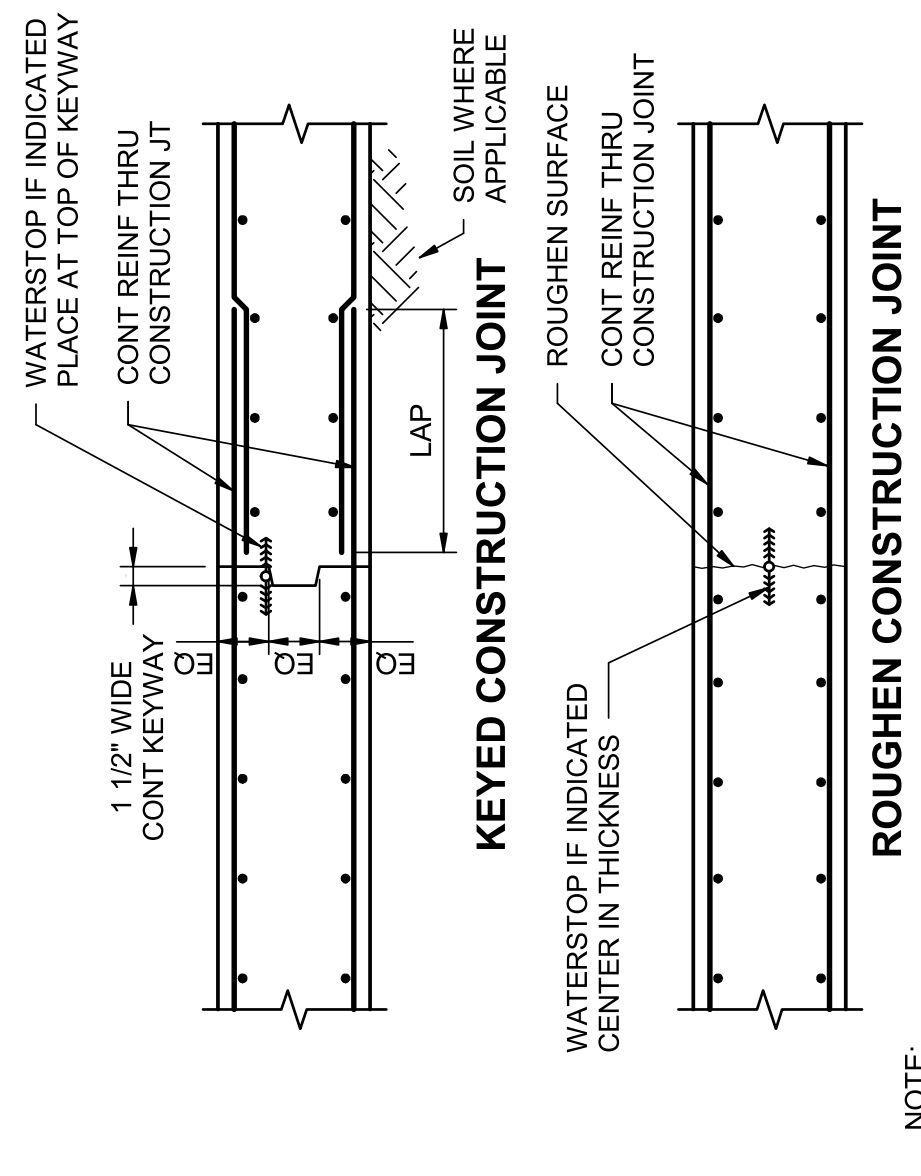


4 HORIZONTAL WALL JOINTS WITH WATERSTOPS
NOT TO SCALE

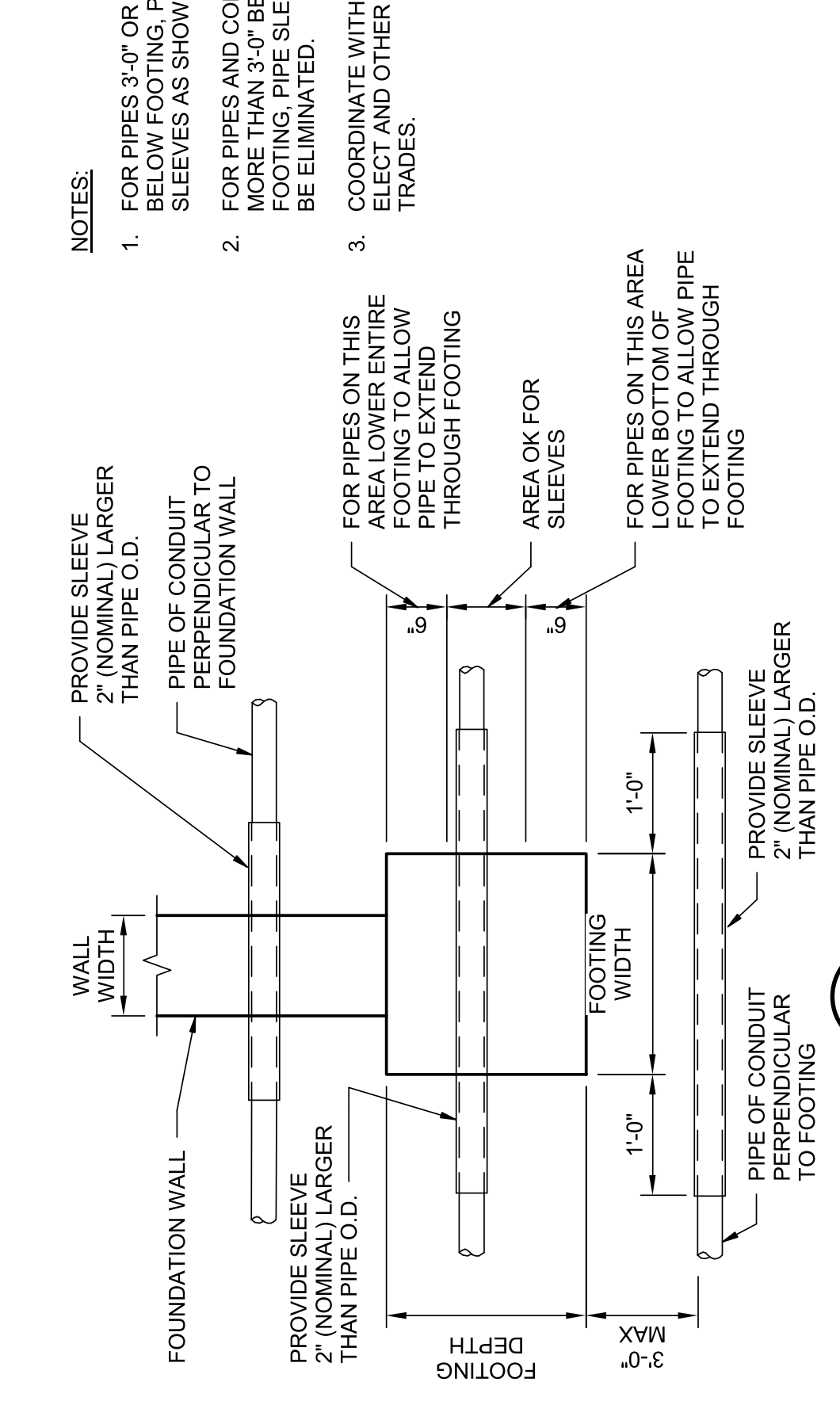


NOTE:
1. SEE PLANS FOR NUMBER AND LOCATION OF PRESSURE RELIEF VALVES.
2. PLACE GRANULAR FILL UNDER ENTIRE STRUCTURE BASE SLAB.
3. LAP FILTER FABRIC 12\"/>

5 GROUNDWATER PRESSURE RELIEF VALVES
NOT TO SCALE



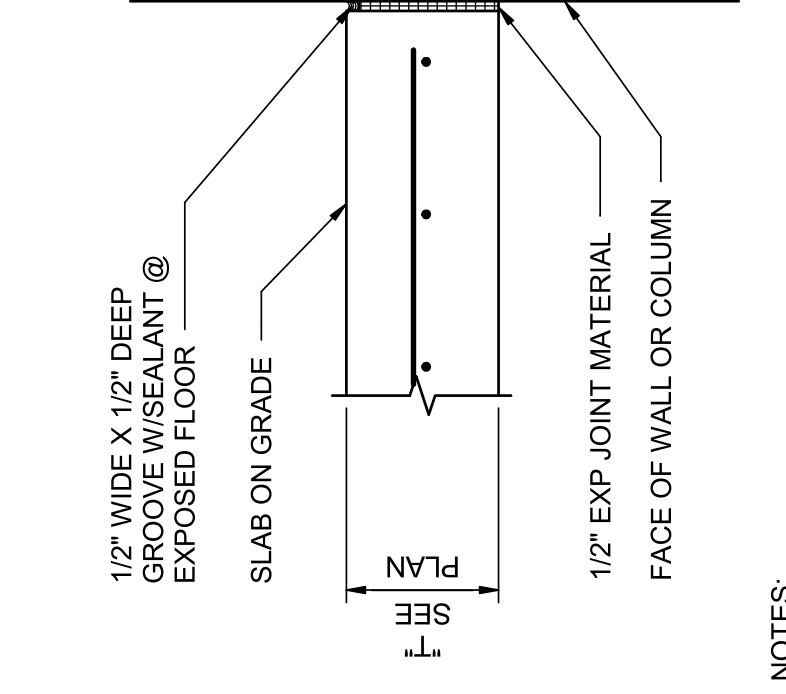
6 DOOR STOOP
NOT TO SCALE



NOTE:
1. FOR PIPES 3'-0\"/>

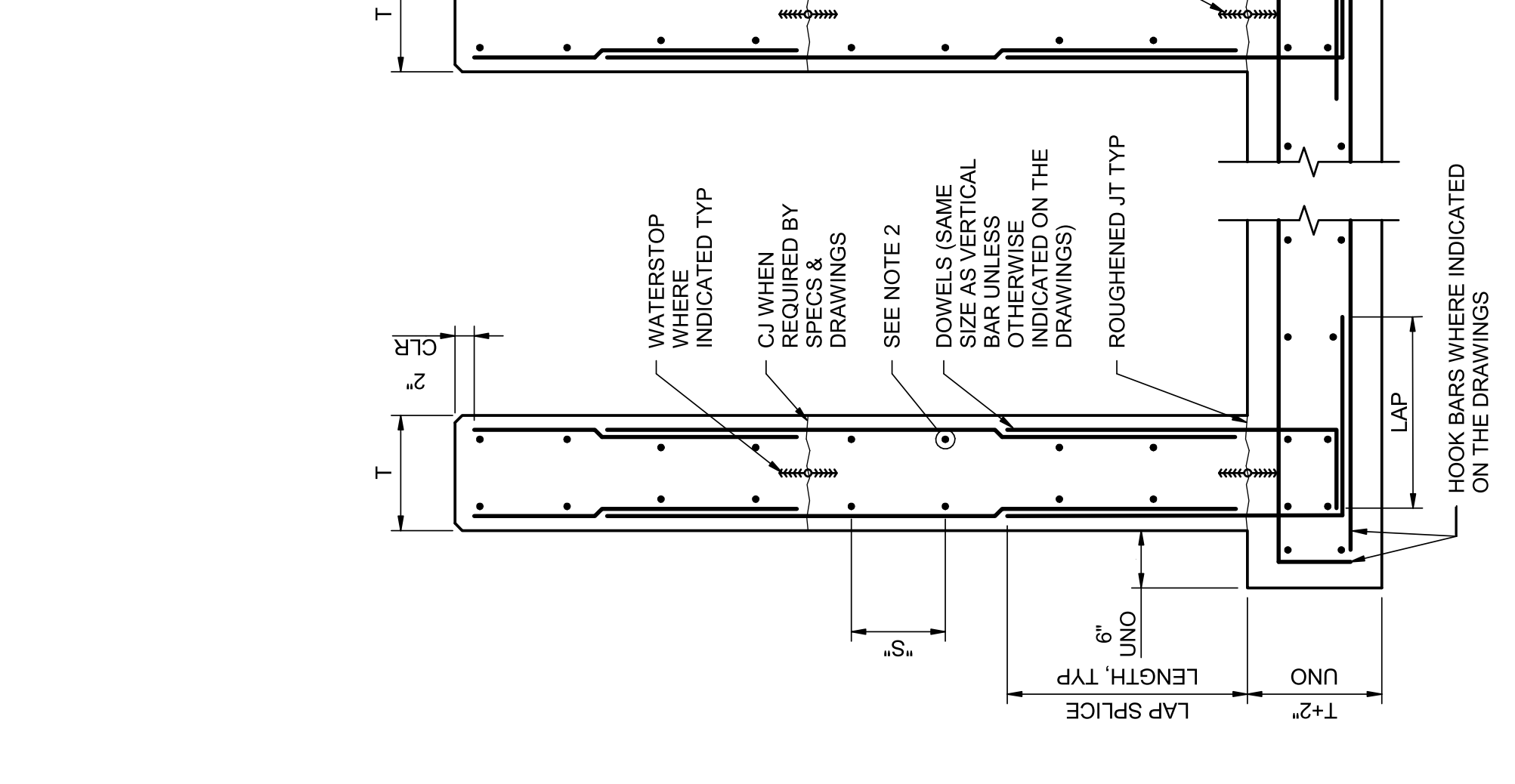
NOTE:
1. ANY ONE OF THE DETAILS ABOVE MAY BE USED AT LOCATIONS INDICATED ON DRAWINGS AS \"S.I.\" AT CONTRACTOR'S OPTION.
2. WHERE \"DS.I.\" IS INDICATED ON PLAN, THE \"DS.I.\" SHALL BE USED.

7 INSTALLATION OF PIPES/CONDUITS
NOT TO SCALE

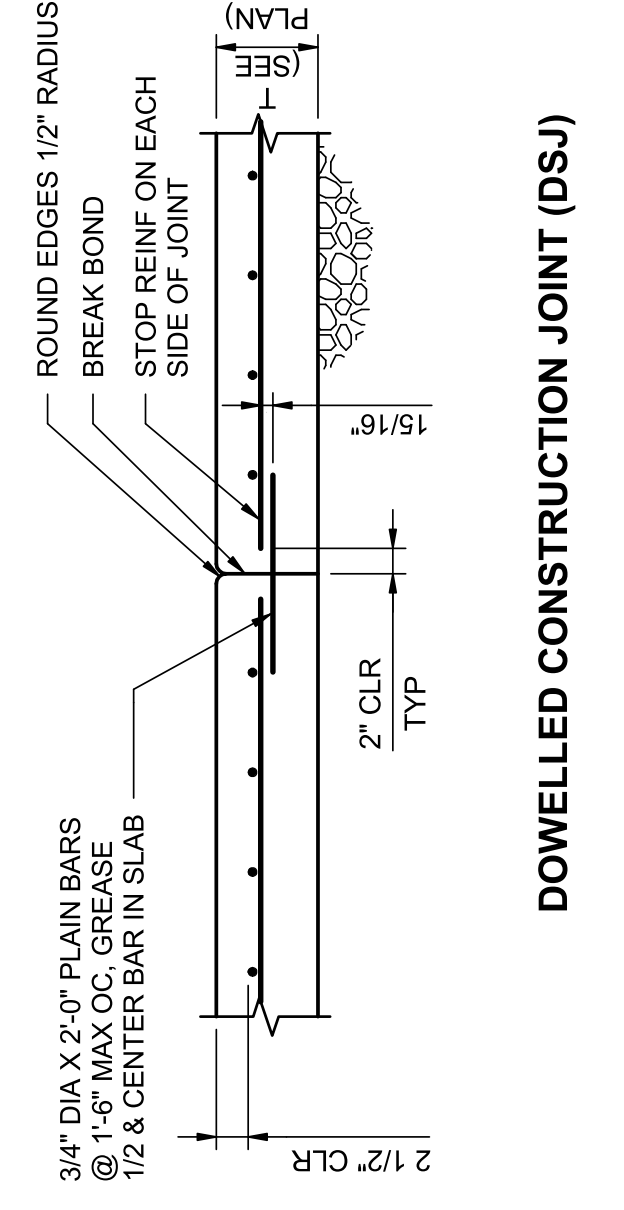


NOTE:
1. AT SLAB-ON-GRADE.

8 TYPICAL ISOLATION JOINT (IJ)
NOT TO SCALE



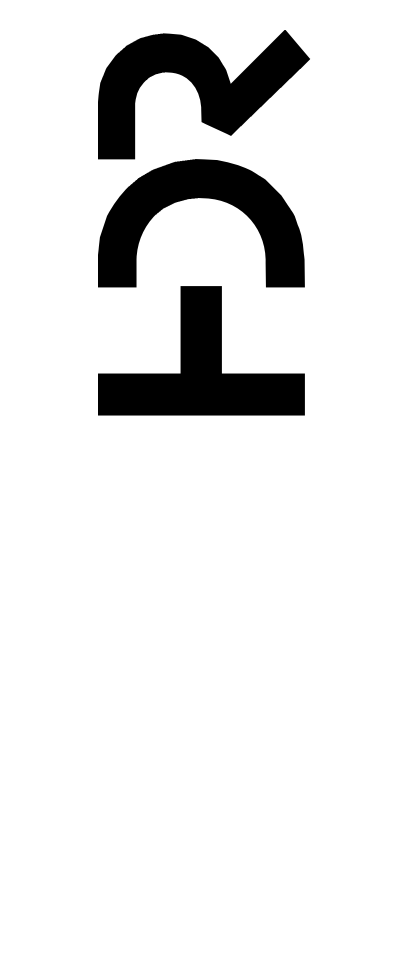
9 FORMED CONTROL JOINT
NOT TO SCALE



10 DOWELLED CONSTRUCTION JOINT (DSJ)
NOT TO SCALE

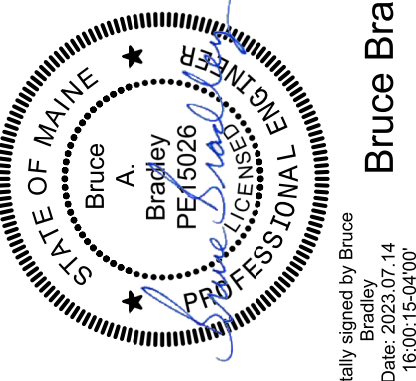
NOTE:
1. \"S\" = BAR SPACING INDICATED ON THE DRAWINGS.
2. FOR HORIZONTAL REINF BAR LOCATION RELATIVE TO VERTICAL REINF BAR LOCATION (INSIDE OR OUTSIDE SEE DRAWING (INSIDE SHOWN)).

11 HORIZONTAL WALL JOINTS WITH WATERSTOPS
NOT TO SCALE



IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

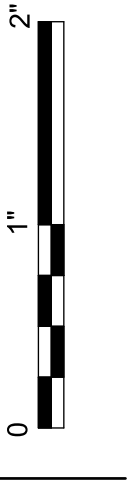
GENERAL STRUCTURAL DETAILS 2



Bruce Bradley
Digitally signed by Bruce Bradley
Date: 2023.07.14 16:00:15-0400

ISSUE	DATE	ISSUED FOR BID	DESCRIPTION

PROJECT NUMBER	10357686
PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER



1

2

3

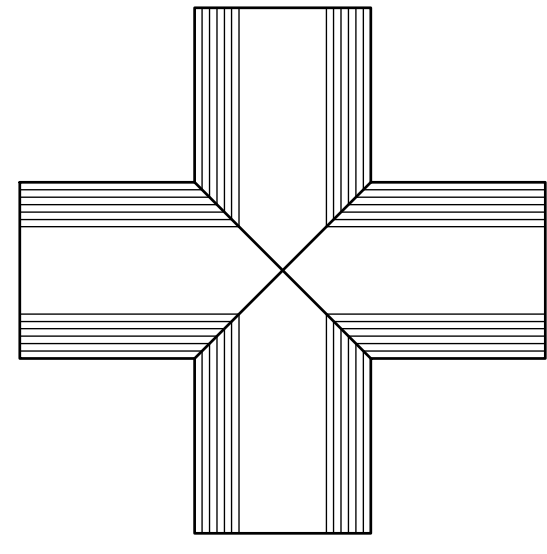
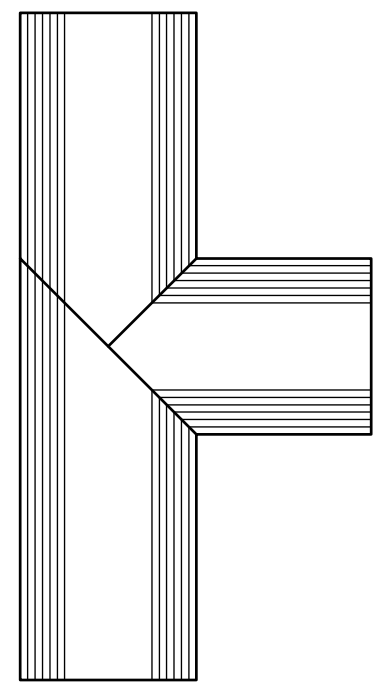
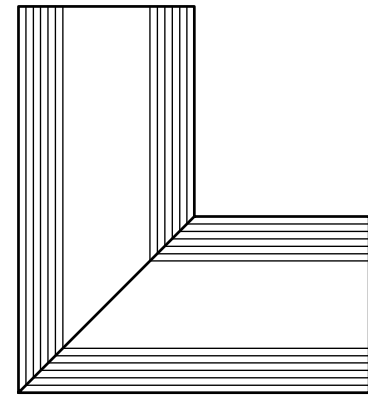
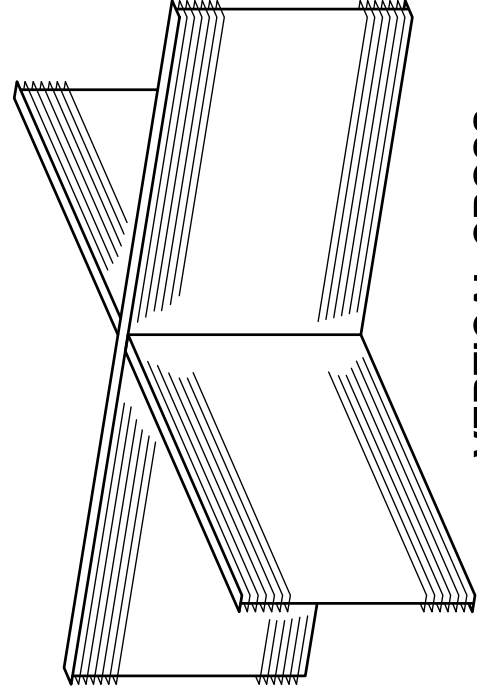
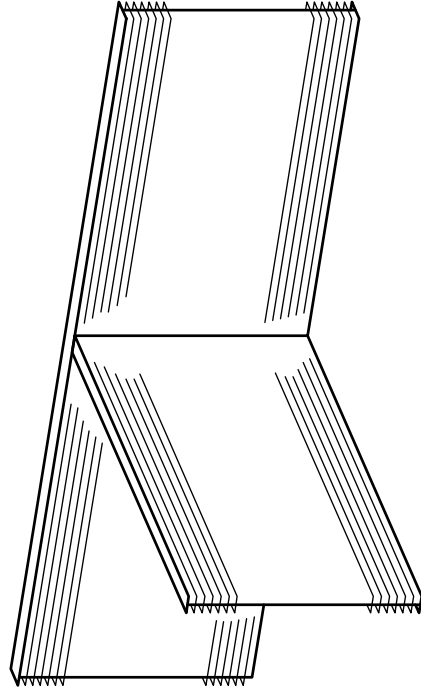
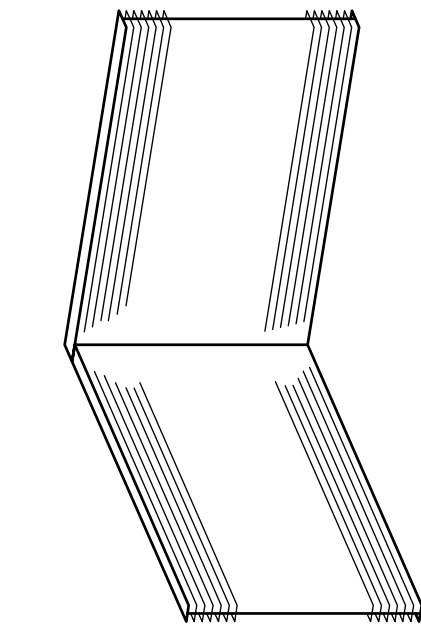
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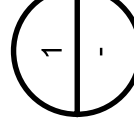
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8



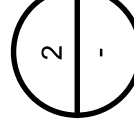
NOTES:

1. BULB TYPE WATERSTOPS SHALL BE HANDLED SIMILAR TO AS SHOWN WITH BULB JOINTS MITERED FOR FULL CONTINUITY OF HOLLOW BULB.
2. ONLY STRAIGHT BUTT JOINT WELDS ARE ALLOWED IN THE FIELD.



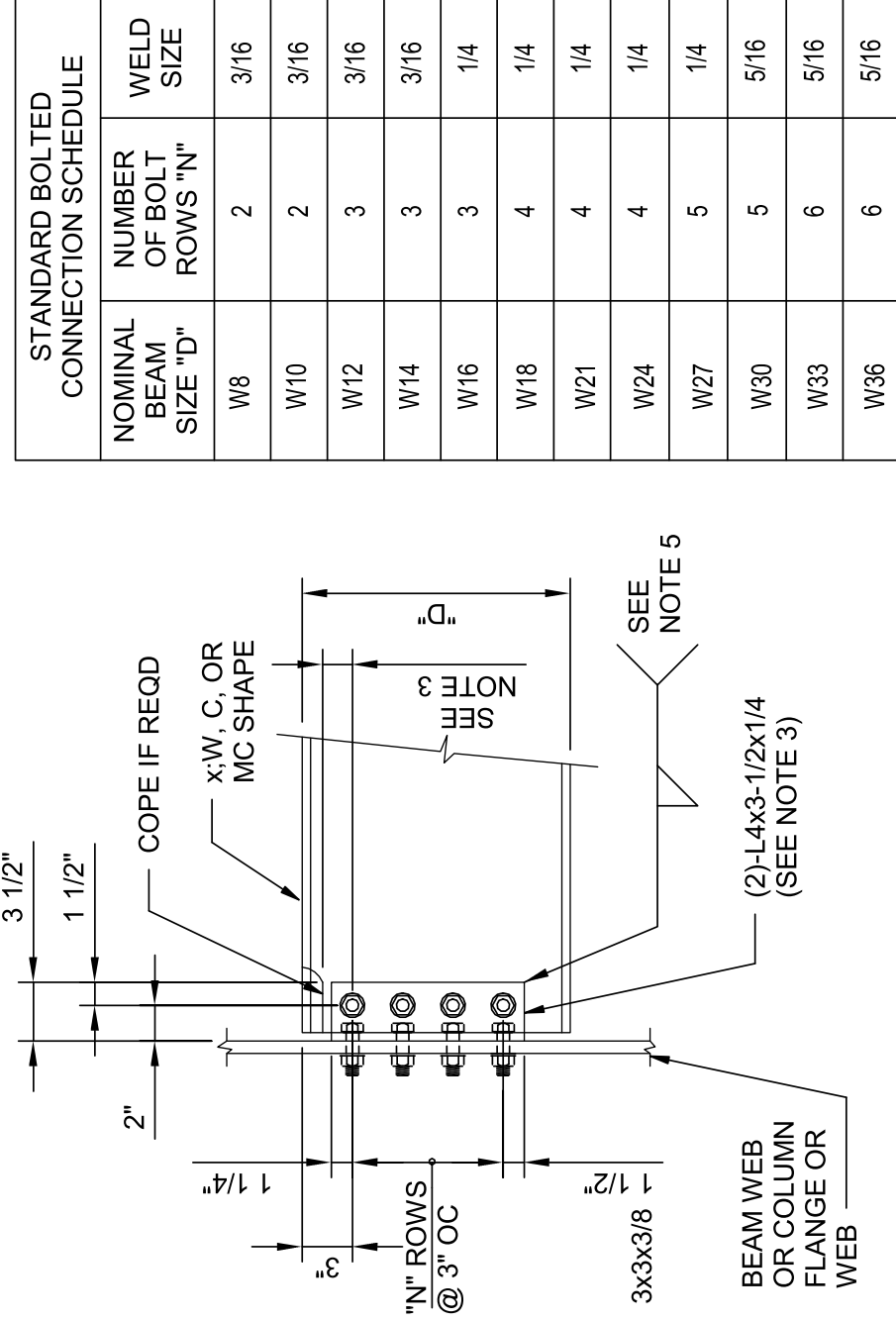
SHOP FABRICATED WATERSTOP

NOT TO SCALE



TYPICAL BEAM CONNECTION

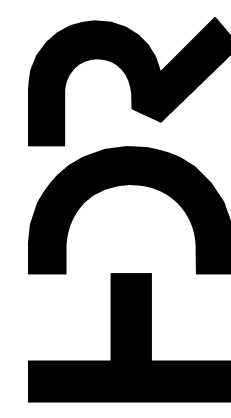
NOT TO SCALE



STANDARD BOLTED CONNECTION SCHEDULE	
NOMINAL BEAM SIZE "D"	WELD SIZE
W8	3/16
W10	3/16
W12	3/16
W14	3/16
W16	1/4
W18	1/4
W21	1/4
W24	1/4
W27	5/16
W30	5/16
W33	5/16
W36	5/16

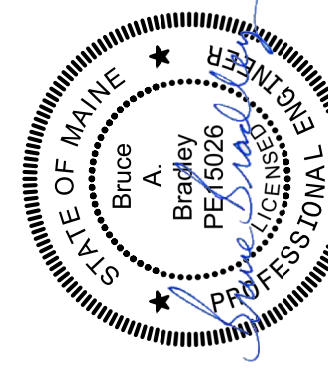
NOTES:

1. ALL BOLTS SHALL BE 3/4" Ø A325-N FOR STEEL CONSTRUCTION. ALL BOLTS SHALL BE 3/4" Ø SST FOR ALL OTHER CONSTRUCTION.
2. PROVIDE MINIMUM NUMBER OF BOLT ROWS "N" SHOWN AS THE TYPICAL CONN. INCREASE NUMBER OF ROWS AND / OR BOLT DIA. IF INDICATED ON PLANS.
3. MIN. DISTANCE FROM ϵ OF TOP BOLT TO A COPE SHALL BE 1-1/2". WHERE DEEP COPES ARE REQD., INCREASE DISTANCE FROM TOP OF BEAM TO ϵ OF TOP BOLT.
4. USE STANDARD OR SHORT HORIZONTAL SLOTTED HOLES AS REQUIRED.
5. WELD DOUBLE ANGLES TO BEAM WEB IN LIEU OF BOLTING AT CONTRACTORS OPTION.



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PROJECT NUMBER	10357686

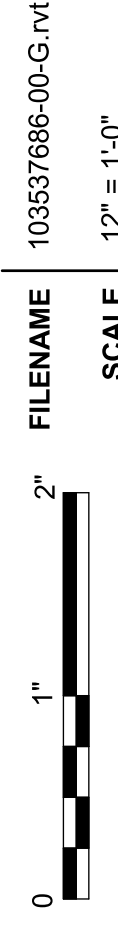
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 Bruce Bradley

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

GENERAL STRUCTURAL DETAILS 3



FILENAME 10357686-00-G.rvt

SCALE 1/2" = 1'-0"

SHEET

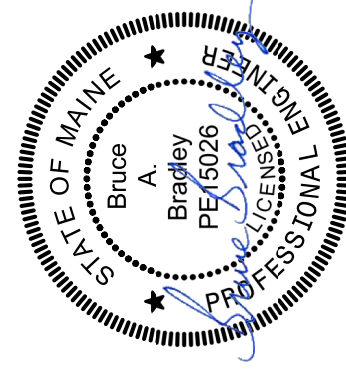
00S-103

STOPLOG SCHEDULE							
TYPE	Length	Location	Height	Quantity	Spares	Total	Notes
ALUMINUM C-CHANNEL	3' - 11 1/2"	WEIR BOX IN UPPER PAVILION	6"	12	3	15	15
ALUMINUM C-CHANNEL	3' - 11 1/2"	WEIR BOX IN UPPER PAVILION	4"	4	1	5	5
ALUMINUM C-CHANNEL	3' - 11 1/2"	WEIR BOX IN UPPER PAVILION	3"	3	1	4	4

General Notes:
 Contactor to Field Verify Lengths and Cut Boards as Needed for Proper Fitment
 Contactor to Field Verify Heights to order proper amount of boards

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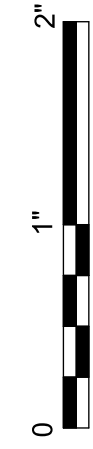
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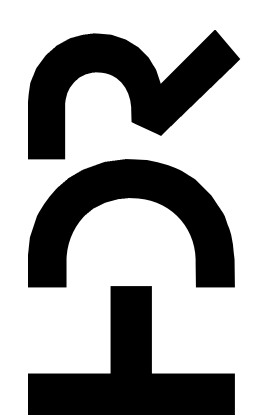
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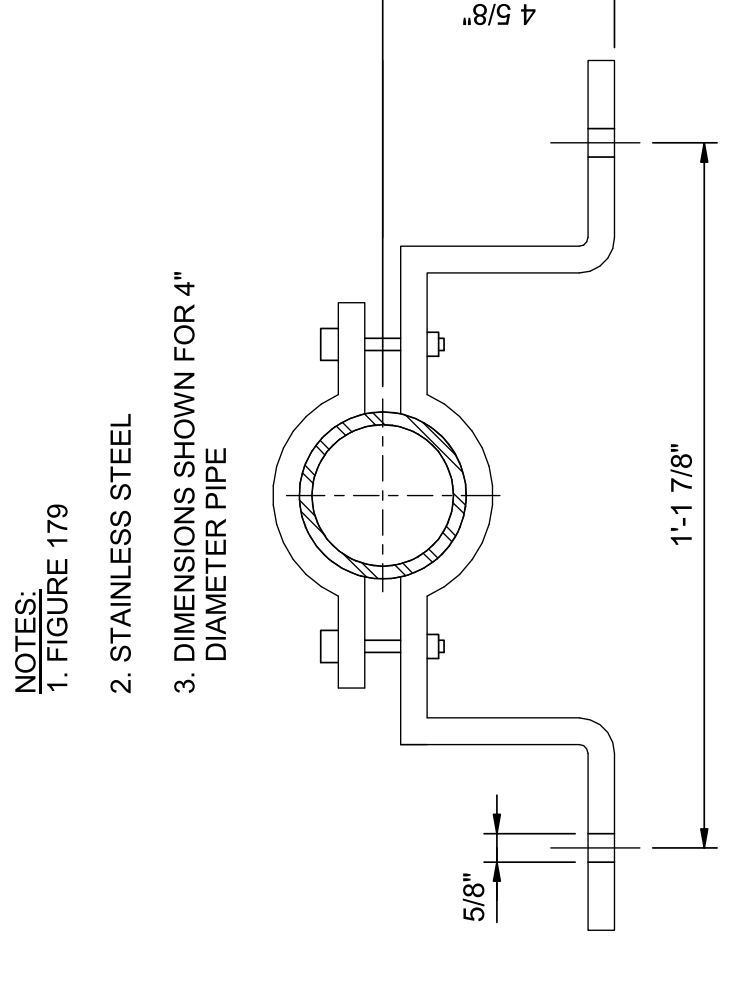
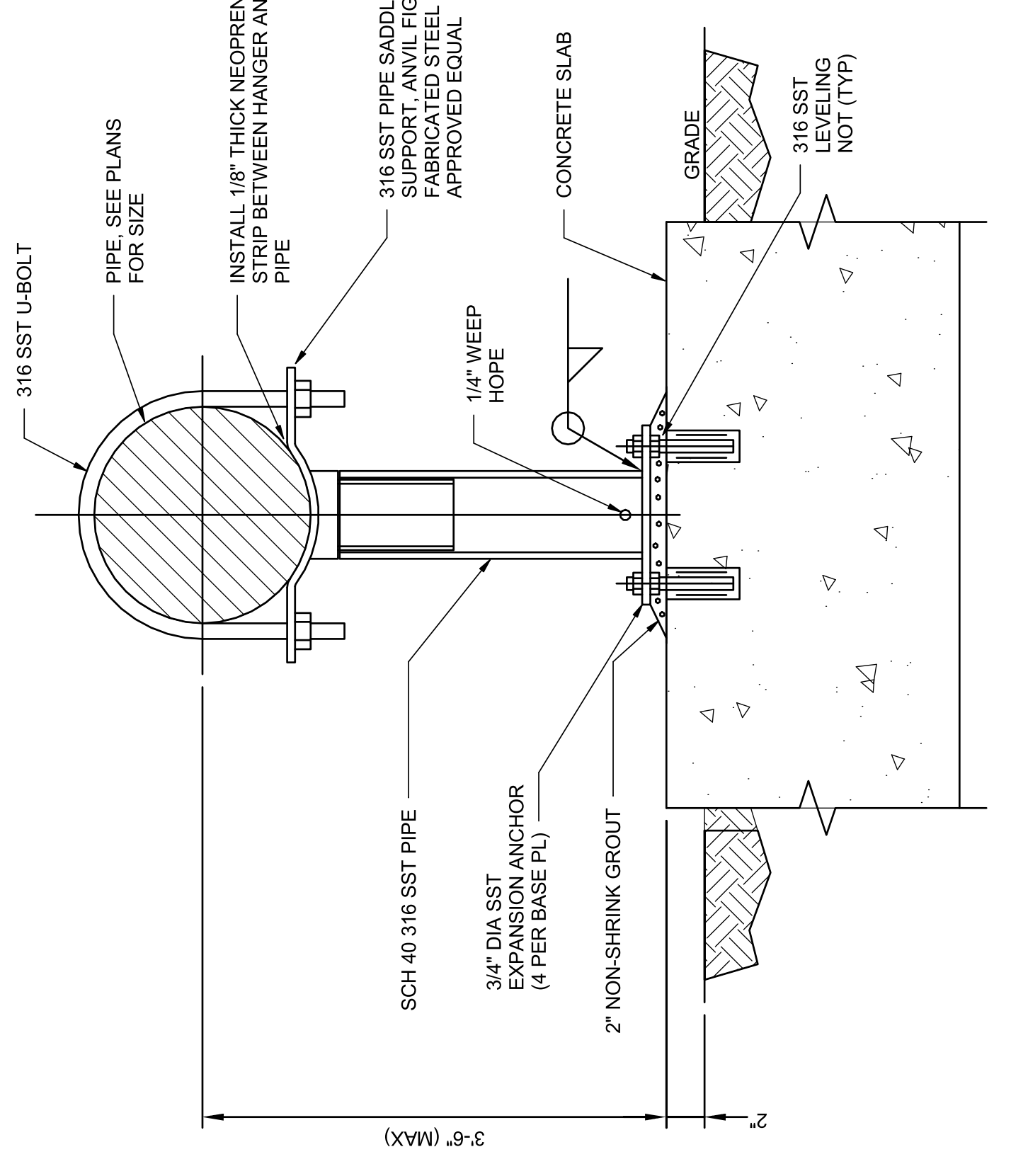
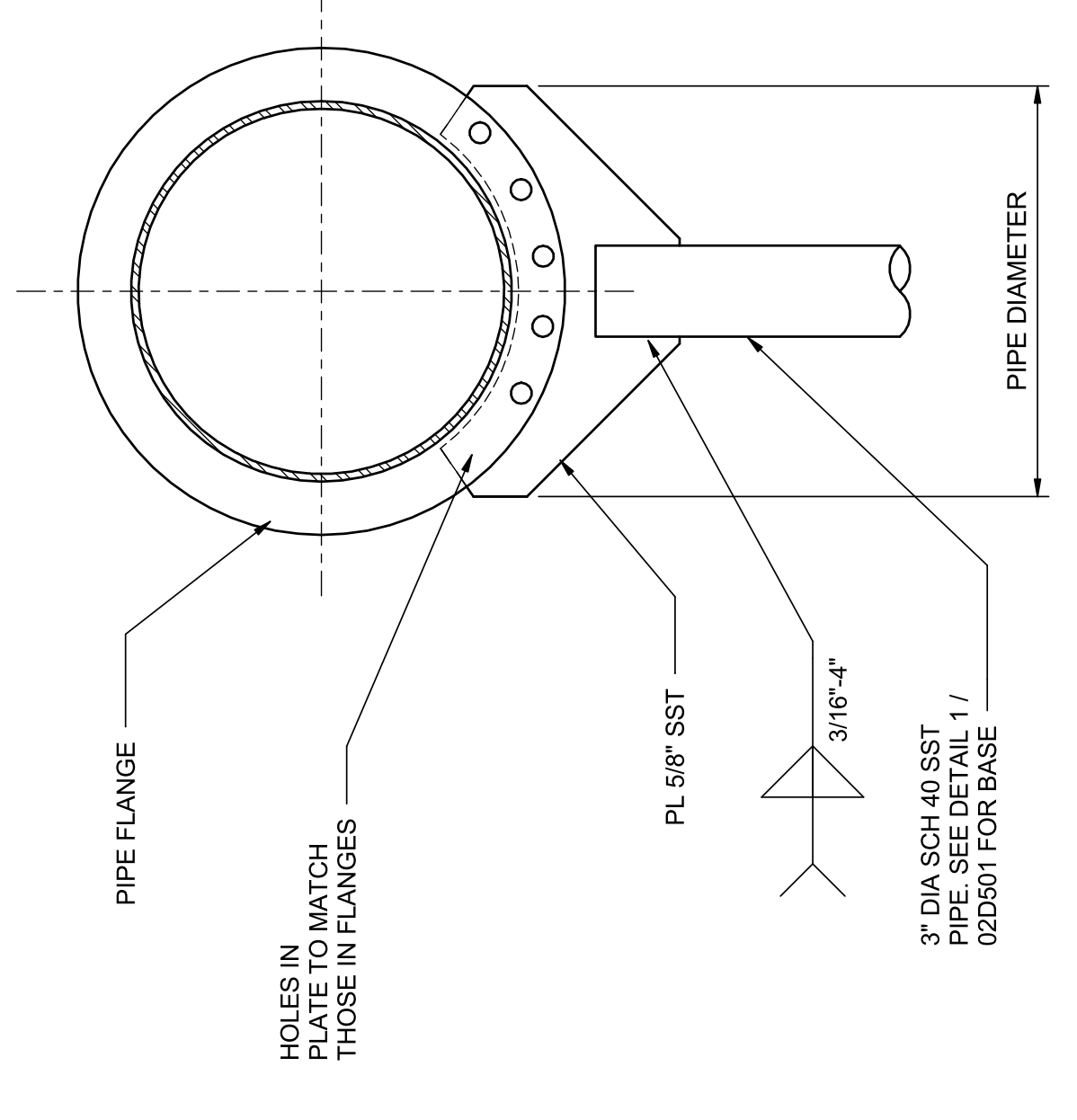
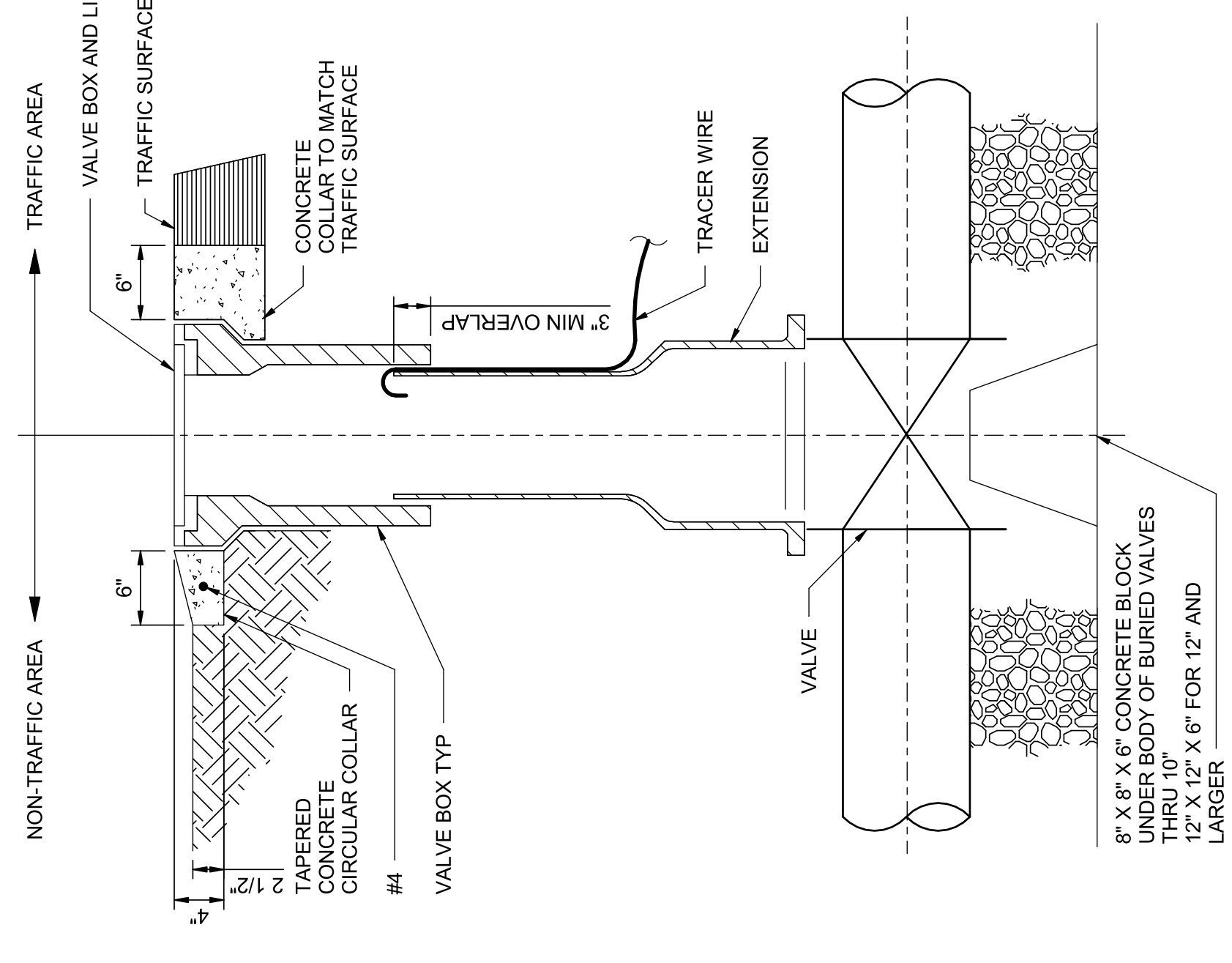
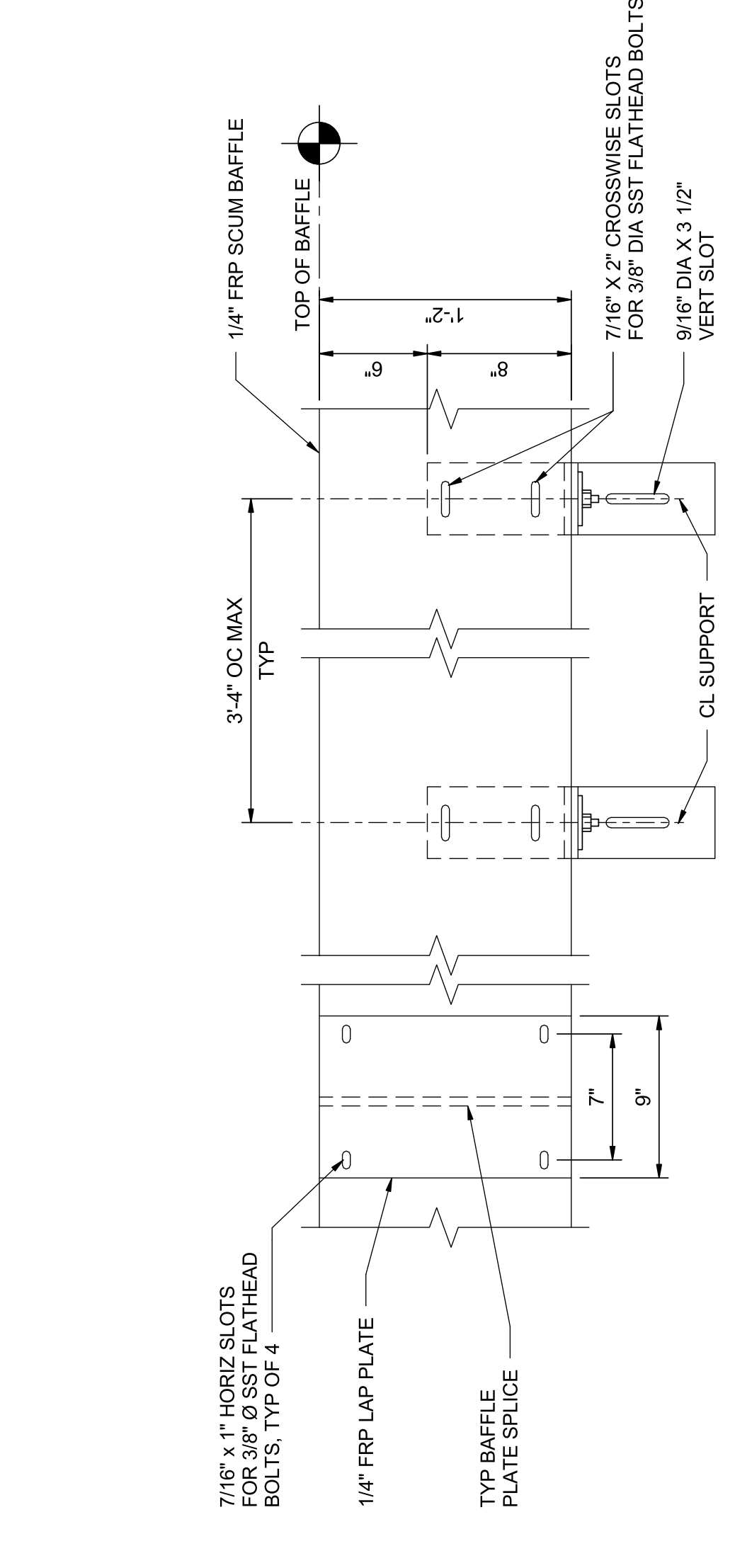
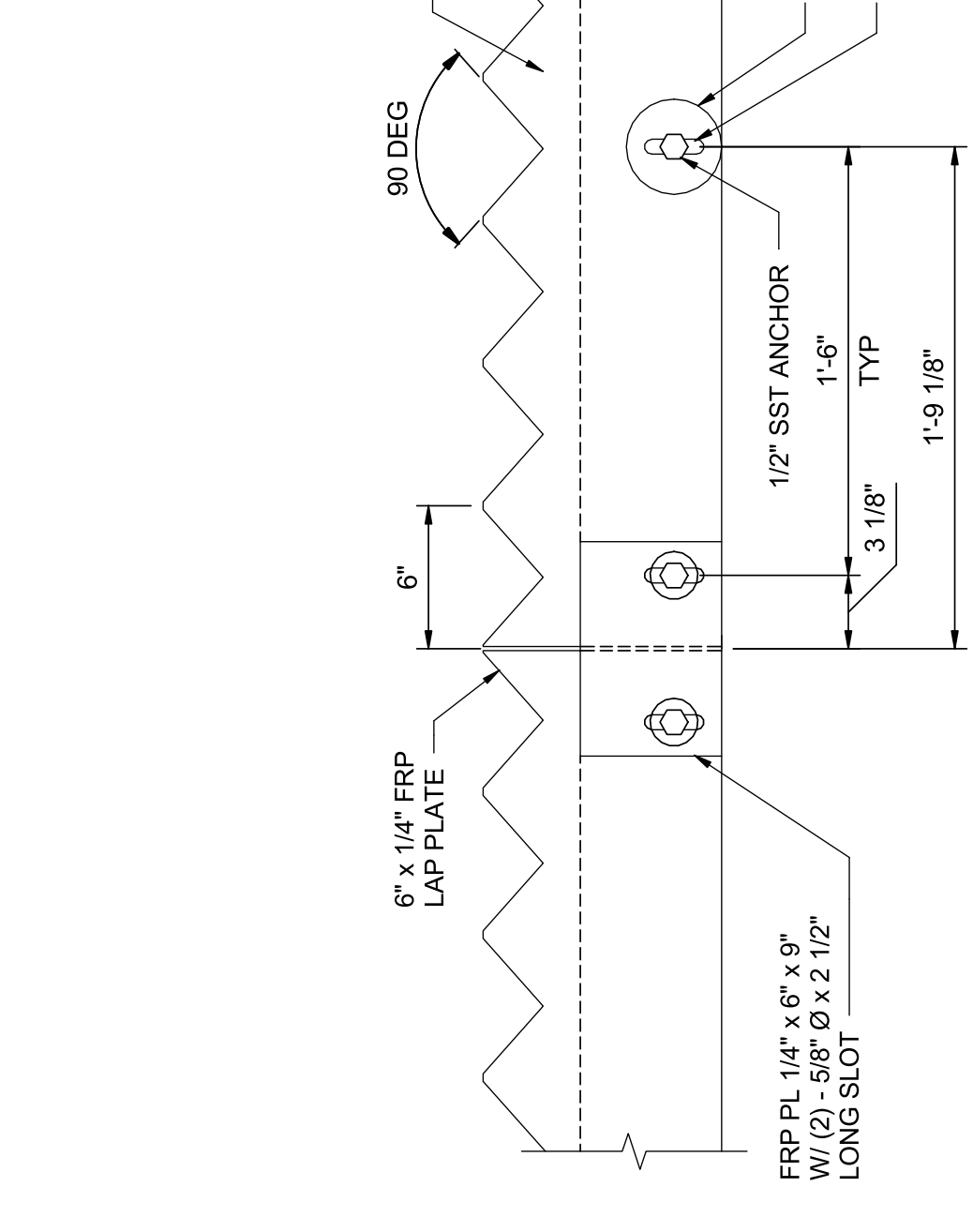
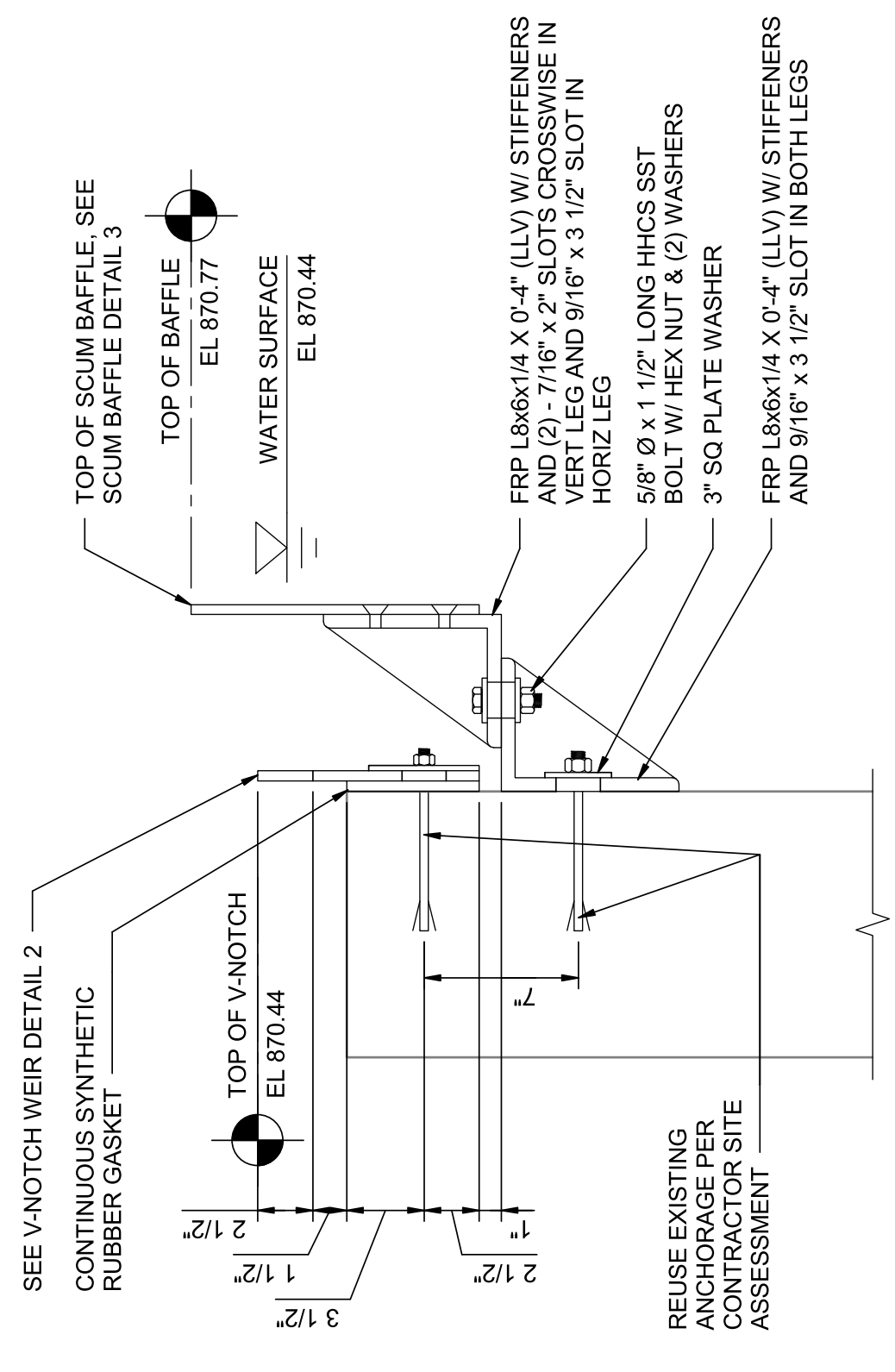
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

STRUCTURAL SCHEDULES



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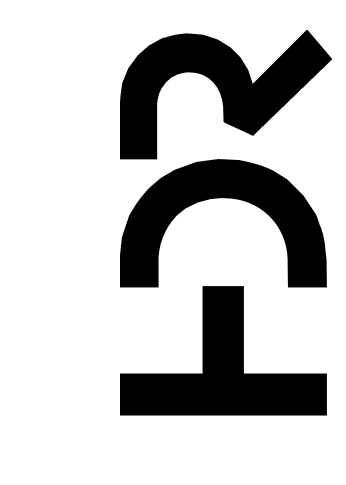


4 BURIED VALVE BOX W/ TRACER WIRE DETAIL
NOT TO SCALE

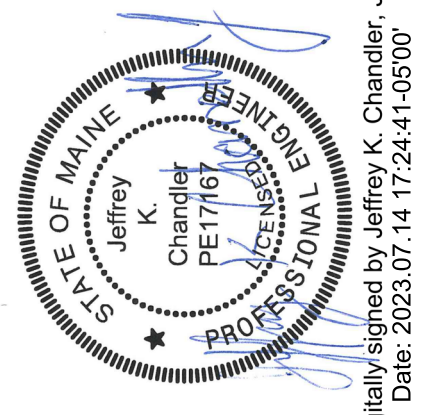
5 FLANGED PIPE SUPPORT
NOT TO SCALE

6 PIPE SUPPORT
NOT TO SCALE

7 OFFSET PIPE CLAMP
NOT TO SCALE



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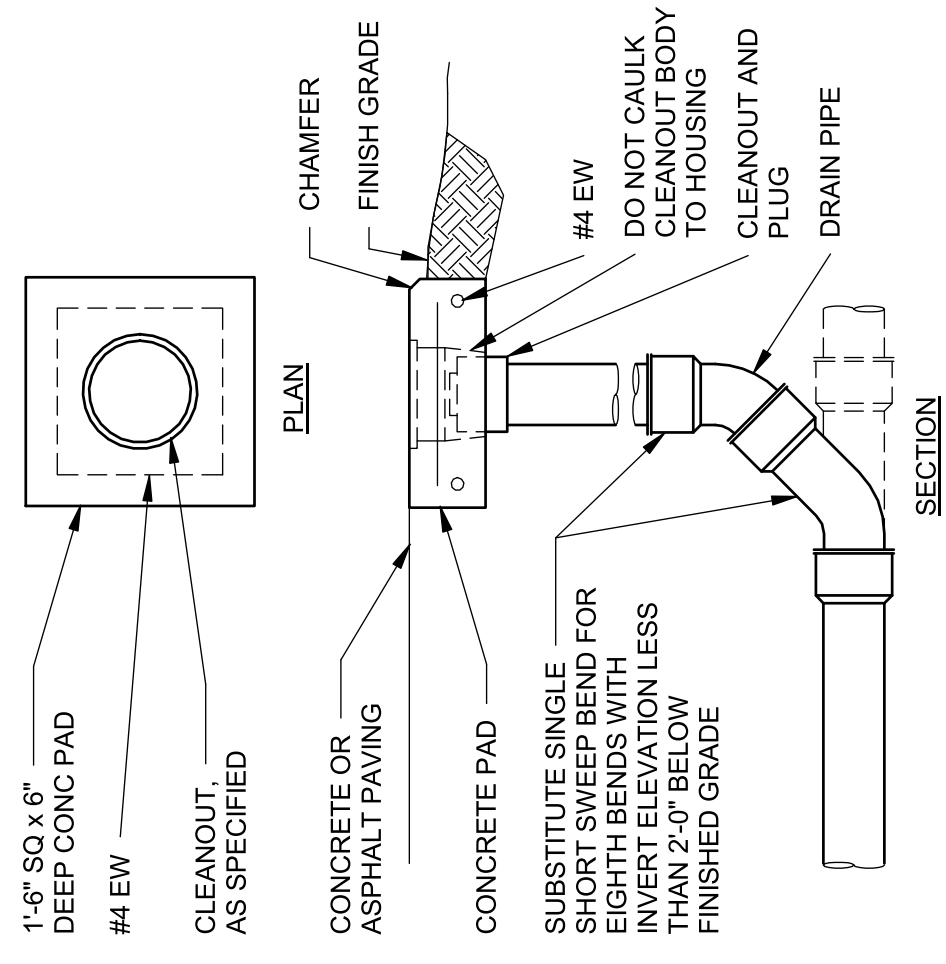
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

GENERAL PROCESS DETAILS

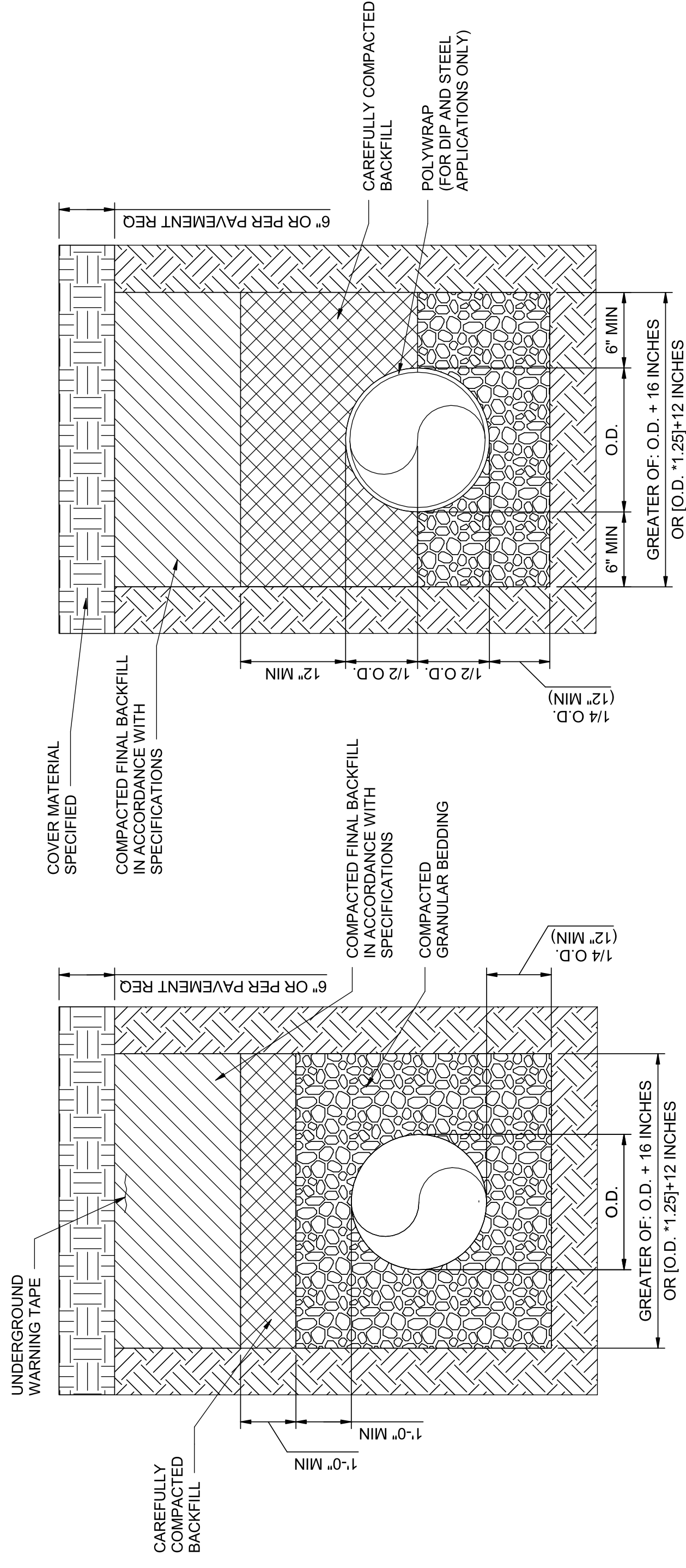
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07/14/2023	ISSUED FOR BID	

PROJECT NUMBER	10357686
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1 **GRADE CLEANOUT**
00D-502 NOT TO SCALE

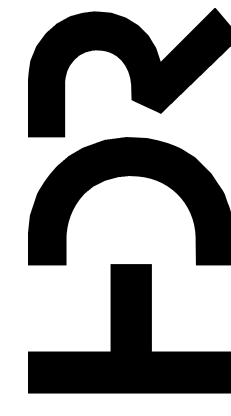


NOTE:
NOT APPLICABLE
UNDER STRUCTURE

TYPE A
PVC, SS, HDPE, RTRP, PVDF

TYPE B
CU, DIP, RCP, CISP, STEEL

2 **PIPE INSTALLATION DETAILS**
00D-502 NOT TO SCALE



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Date: 2023.07.14 17:24:53-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

GENERAL PROCESS DETAILS

0 1' 2'

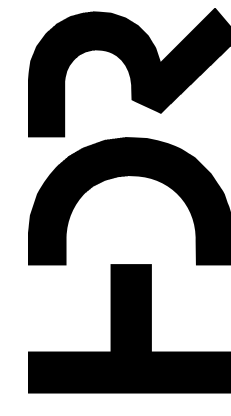
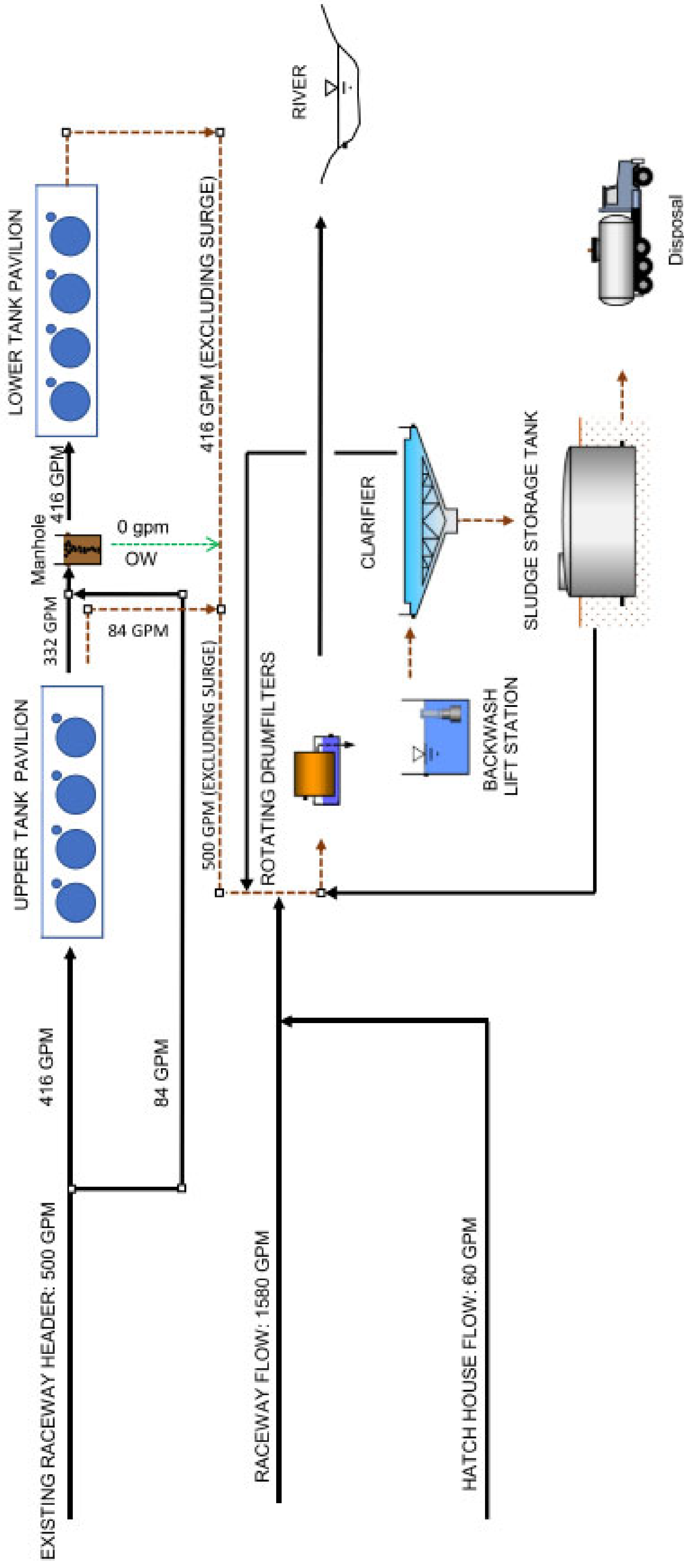
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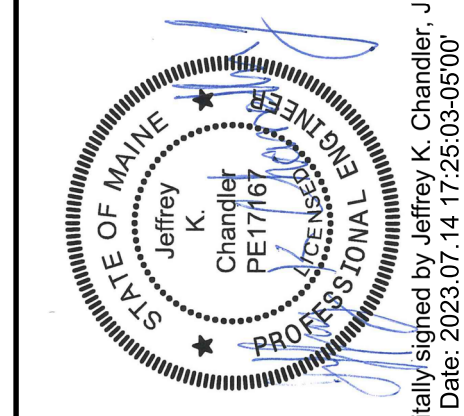
SHEET **00D-502**

1 2 3 4 5 6 7 8

FLOW SCHEMATIC



PROJECT MANAGER	ANDREW GURSKI
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



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IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

PROCESS WATER FLOW SCHEMATIC

ISSUE	DATE	DESCRIPTION
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SCALE 1" = 1'-0"

FILENAME 10357686-00-G.rvt

SHEET 00D-601

TAG	DRUM/FILTER SCHEDULE
DF1 & DF2	1926 GPM
INFLUENT WATER CAPACITY	100 mg/L TSS
QUALITY	40 MICRON*
OPENINGS ON DRUMS	250 MM
HEADLOSS AT RINSE INITIATION	22.5 m*2
SCREEN SURFACE AREA	68' F
WATER TEMP	65% MIN
DRUM SUBMERGENCE	21% MIN
OPEN AREA OF SCREEN	34 GPM
RINSE PUMP FLOW	116 PSI
RINSE PUMP TDH	5 MAX
RINSE PUMP HP	1.25" DIA MIN
RINSE PUMP CONNECTION	116 PSI
RINSE SUPPLY PRESSURE AT SPRAY	CONNECTION SIZE
RINSE SUPPLY CONNECTION SIZE	DRUM DRIVE MOTOR
DRUM DRIVE MOTOR	DRUM DRIVE SPEED
DRUM DRIVE SPEED	BACKWASH OUTLET
BACKWASH OUTLET	SERVICE VOLTAGE
SERVICE VOLTAGE	LEVEL AT WHICH INFLUENT BEGINS TO OVERFLOW TO BYPASS
LEVEL AT WHICH INFLUENT BEGINS TO OVERFLOW TO BYPASS	SPRAY STRAINER CONNECTION
SPRAY STRAINER CONNECTION	SPRAY STRAINER OPENINGS
SPRAY STRAINER OPENINGS	SPRAY STRAINER MINIMUM AREA
SPRAY STRAINER MINIMUM AREA	MAKER & MODEL
MAKER & MODEL	NP INNOVATIONS
NP INNOVATIONS	FRAME OVERALL LENGTH W/O BYPASS
FRAME OVERALL LENGTH W/O BYPASS	MAX OVERALL WIDTH AT SERVICE DECK
MAX OVERALL WIDTH AT SERVICE DECK	INTEGRAL BYPASS WEIR LENGTH PER SIDE
INTEGRAL BYPASS WEIR LENGTH PER SIDE	

*40 MICRON IS A FUTURE MICRON SIZE. FOR THIS CONTRACT PROVIDE 50 OR 60 MICRON MEDIA

Tag No	Location	Function	Opening width (in)	Opening or Gate Height (in)	Type of Opening	Pipe Penetration Type	Pipe Penetration Invert Elevation (feet) (Note 9)	Gate Invert Elevation (ft)	Top of Wall Elevation (ft)	Top of Frame Elevation (ft)	Sump Bottom Elevation (ft)	Material	Configuration	Power	Actuator Control	Seating Head (ft)	Unseating Head (ft)
PIG-0101	Raceway Header	Pavilion Intake Gate	21	21	14" Pipe	Boot Seal	288.42	288.52	291.25	294.25	287.75	Aluminum	FB, SC, RS, RHC, BS, SMBS, Note 10	NA	NA	3.5	NA
DIG-0101	Filter Building	Drumfilter Isolation Gate	24	24	Rectangular	NA	NA	278.58	283.5	287	278	Aluminum	FB, SC, RS, HW, SMBS	NA	NA	NA	5
DIG-0102	Filter Building	Drumfilter Isolation Gate	24	24	Rectangular	NA	NA	278.58	283.5	287	278	Aluminum	FB, SC, RS, HW, SMBS	NA	NA	NA	5
SPG-0101	Show Pool	Show Pool Gate	21	21	15" Pipe	Boot Seal	280.89	280.77	286.02	288.5	280.19	Aluminum	FB, SC, NRS, RHC, BS, SMBS	NA	NA	5	NA

General Notes:

- The height noted for gates with Slab Mounted Bottom Seals (SMBS) refers to the overall opening or gate leaf height as measured from the top of slab. The actual gate opening or leaf height will be reduced by the height of the bottom seal.
- Dimension refers to gate leaf height. The opening behind these gates is full height.
- Contractor shall verify width of existing opening.
- Provide gate with the minimum allowable frame height if the minimum allowable frame height places the top of frame above the elevation called out.
- Frame height to be the minimum required to lift leaf above opening.
- Frame height to be the minimum required.
- Gates that are used where pipes penetrate with boot seals (BS) are larger than the pipe diameter stated to account for the outside diameter of the seal.
- Gates that are used where pipes penetrate with boot seals (BS) have lower installation inverts than the penetrating pipe to account for the outside diameter of the seal.
- Pipe invert elevation refers to the elevation of the inside invert of the pipe.
- Top of gate shall be 2' above grade.

Abbreviations:

- FB Flat Back/Surface Mounting
- HW Hand Wheel Operator
- RHC Right Angle Hand Crank Operator
- NRS Non Rising Stem
- RS Rising Stem
- SC Self Contained
- BS Boot Seal
- SMBS Slab Mounted Bottom Seal

DESIGNATION	SERVICE	TYPE	NORMAL OPERATING POINT	MOTOR HORSEPOWER	VOLTAGE	FULL SPEED	DISCHARGE SIZE	AVAILABLE SUBMERGENCE	CONTROLS	SOLIDS BASIS OF DESIGN
SMP0401	FILTER BUILDING	NON-CLOG SCREW PUMP	800 GPM @ 28" TDH	10	208/3	1800 RPM MAX	6"	NA	VFD	VAUGHAN HSC6MS
CP0401	FILTER BUILDING	NON-CLOG SUBMERSIBLE	160 GPM @ 24" TDH	2.4 HP	208/3	1800 RPM MAX	3"	24"		GORMAN-RUPP SFDA
CP0402	FILTER BUILDING	NON-CLOG SUBMERSIBLE	160 GPM @ 24" TDH	2.4 HP	208/3	1800 RPM MAX	3"	24"		GORMAN-RUPP SFDA

DESIGNATION	DESCRIPTION	NORMAL OPERATING POINT	MOTOR HORSEPOWER	VOLTAGE	SOLIDS	DRY REPRIME SUCTION LIFT	MAKE, MODEL, & SPEED DRAWN	MOTOR RPM
CP0401	CLARIFIER VACUUM PUMP 3" CONNECTION	50 GPM @ 10.5' TDH	2	208/3	2.5"	2.5'	GORMAN-RUPP T3A-B-4	1800
CHP0401	CLARIFIER HOPPER PUMP 3" CONNECTIONS	75 GPM @ 14.5' TDH	2	208/3	2.5"	3.5'	GORMAN-RUPP T3A-B-4	1800

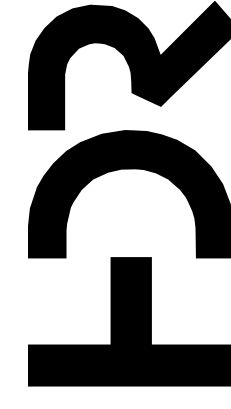
TAG NUMBER	SERVICE	FLOW RANGE (GPM)	METER SIZE (IN)	NEMA (IP) RATING
FM-1	FSW	0-500	14 (P) (68)	
FM-2	RSW	0-500	12 (P) (68)	

PIPE TAG	FUNCTION	EXPOSED PIPE	PIPE MATERIALS	FIELD TEST REQUIREMENTS
FSW	Fresh Supply Water	2	BURIED PIPE	TEST MEDIUM ALLOWABLE LEAKAGE
RSW	REUSE SUPPLY WATER	2	BURIED PIPE	TEST MEDIUM ALLOWABLE LEAKAGE
WDW	WASTE DRAIN WATER	3	BURIED PIPE	TEST MEDIUM ALLOWABLE LEAKAGE
PWW	PUMPED WASTE WATER	2	BURIED PIPE	TEST MEDIUM ALLOWABLE LEAKAGE
SLU	SLUDGE 3" AND SMALLER	7	BURIED PIPE	TEST MEDIUM ALLOWABLE LEAKAGE
SJU	SLUDGE 4" AND LARGER	6	BURIED PIPE	TEST MEDIUM ALLOWABLE LEAKAGE
OXY	OXYGEN LINE	5	BURIED PIPE	TEST MEDIUM ALLOWABLE LEAKAGE

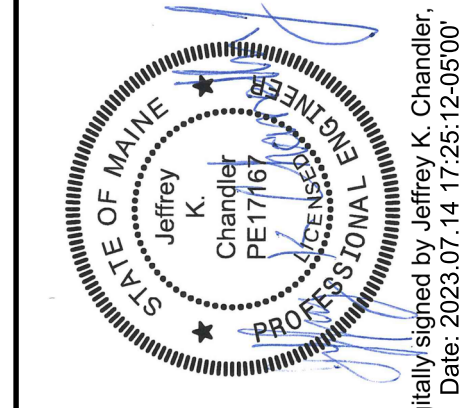
GROUP NO.	PIPE	PIPING MATERIAL SCHEDULE
1	AWWA C905 PVC PIPE DIP SCHEDULE DR 25	JOINTS, FITTINGS, COATINGS AND LININGS
2	PVC SCHEDULE 40, ASTM D1785	DIP FITTINGS, RESTRAINED JOINTS
3	PVC SEWER PIPE, ASTM D3034 AND ASTM F679, SDR26	POLYVINYL CHLORIDE SCHEDULE 40, NORMAL IMPACT SOCKET SOLVENT WELDED JOINTS
4	PVC SEWER PIPE, ASTM D3034 AND ASTM F679, SDR35	BELL & SPIGOT FITTINGS W/ RESTRAINING JOINTS WITHIN 30' OF FITTINGS
5	COPPER, ASTM B88, TYPE L, HARD TEMPERED	BELL & SPIGOT FITTINGS W/ RESTRAINING JOINTS WITHIN 30' OF FITTINGS
6	DUCTILE IRON, CLASS 150	WROUGHT COPPER OR CAST BRONZE FITTINGS CLEANED FOR OXYGEN SERVICE SEE SPECIFICATIONS
7	PVC, SCHEDULE 80, ASTM D1785	CEMENT MORTAR LINED, FLANGED OR RESTRAINED MECHANICAL JOINTS
		POLYVINYL CHLORIDE SCHEDULE 40, NORMAL IMPACT SOCKET SOLVENT WELDED JOINTS

NOTES

- NOTE 1
LEAKAGE ALLOWANCE IS AS FOLLOWS
(A) PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE
(B) PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE FOR UNBURIED PIPE AND NOT MORE THAN 0.02 GALLONS PER INCH OF DIAMETER PER 100 FEET OF BURIED PIPE
(C) PIPES SO DESIGNATED SHALL NOT SHOW LEAKAGE OF MORE THAN 0.15 GALLON PER HOUR PER INCH OF DIAMETER PER 100 FEET OF PIPE
- NOTE 2
FOR FIELD TEST PROCEDURES AND ADDITIONAL TEST REQUIREMENTS, SEE SPECIFICATIONS
- NOTE 3
STATIC WATER TEST WITH SURFACE 5- FEET ABOVE HIGH POINT OF PIPE
- NOTE 4
FOR PIPE LINING AND COATING SEE SPECIFICATIONS



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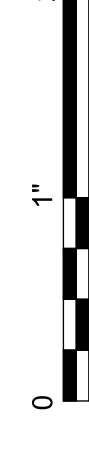
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Date: 2023.07.14 17:25:12-05'00'

ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

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PROCESS SCHEDULES 1

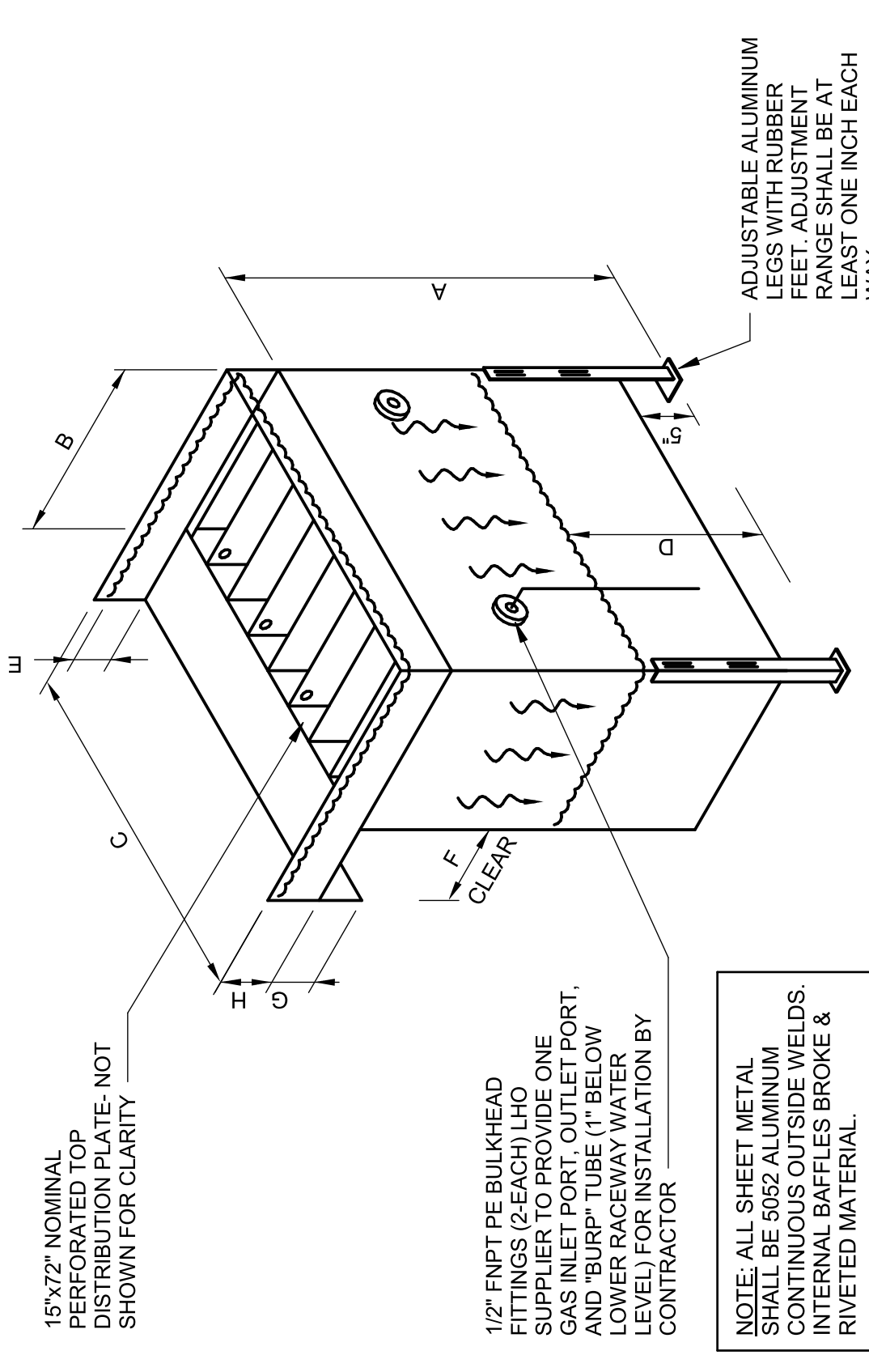
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY



FILENAME 10357686-00-G.rvt
SCALE

WATER SUPPLY		DEVICE	LOCATION	TAG	DIMENSION A (FEET)	DIMENSION B (FEET)	DIMENSION C (FEET)	DIMENSION D (FEET)	DIMENSION E (INCHES)	DIMENSION F (INCHES)	APPROX FLOOR ELEVATIONS (FEET)	PLATE AREA (SQFT)	O ₂ FLOW RATE (LPM)	FLOW METER RANGE (LPM)	WATER FLOW RATE (GPM)	UPSTREAM WS (FEET)	DOWNSTREAM WS (FEET)
REUSE	LHO		RACEWAY BUILDING	LHO0201	3.00	1.52	4.92	2.48	3	18.75	287.08	7.50	7.95	0-15	750	290.33	289.56
REUSE	LHO		RACEWAY BUILDING	LHO0202	3.00	1.52	4.92	2.48	3	18.75	287.08	7.50	7.95	0-15	750	290.33	289.56
REUSE	LHO		RACEWAY BUILDING	LHO0401	2.76	1.52	4.92	2.33	3	18.75	285.87	7.50	8.57	0-15	750	288.88	288.2
REUSE	LHO		RACEWAY BUILDING	LHO0402	2.76	1.52	4.92	2.33	3	18.75	285.87	7.50	8.57	0-15	750	288.88	288.2
REUSE	LHO		RACEWAY BUILDING	LHO0601	3.09	1.52	4.92	2.32	3	18.75	283.87	7.50	6.67	0-15	750	287.21	286.19
REUSE	LHO		RACEWAY BUILDING	LHO0602	3.09	1.52	4.92	2.32	3	18.75	283.87	7.50	6.67	0-15	750	287.21	286.19
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:DMBDC100)		UPPER PAVILION	CD0201	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:DMBDC100)		UPPER PAVILION	CD0202	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:DMBDC100)		UPPER PAVILION	CD0203	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:DMBDC100)		UPPER PAVILION	CD0204	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:DMBDC600)		RACEWAY BUILDING	CD0501	NA	NA	NA	NA	NA	NA	NA	NA	18.00	2-26	2000	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:DMBDC600)		RACEWAY BUILDING	CD0502	NA	NA	NA	NA	NA	NA	NA	NA	18.00	2-26	2000	NA	NA
FRESH	NA		HATCHERY BUILDING	CD0503	NA	NA	NA	NA	NA	NA	NA	NA	7.00	0-15	NA	NA	NA
FRESH	NA		HATCHERY BUILDING	CD0504	NA	NA	NA	NA	NA	NA	NA	NA	7.00	0-15	NA	NA	NA
REUSE	CERAMIC DIFFUSER (POINT FOUR MODEL:DMBDC100)		LOWER PAVILION	CD0301	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
REUSE	CERAMIC DIFFUSER (POINT FOUR MODEL:DMBDC100)		LOWER PAVILION	CD0302	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
REUSE	CERAMIC DIFFUSER (POINT FOUR MODEL:DMBDC100)		LOWER PAVILION	CD0303	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
REUSE	CERAMIC DIFFUSER (POINT FOUR MODEL:DMBDC100)		LOWER PAVILION	CD0304	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA

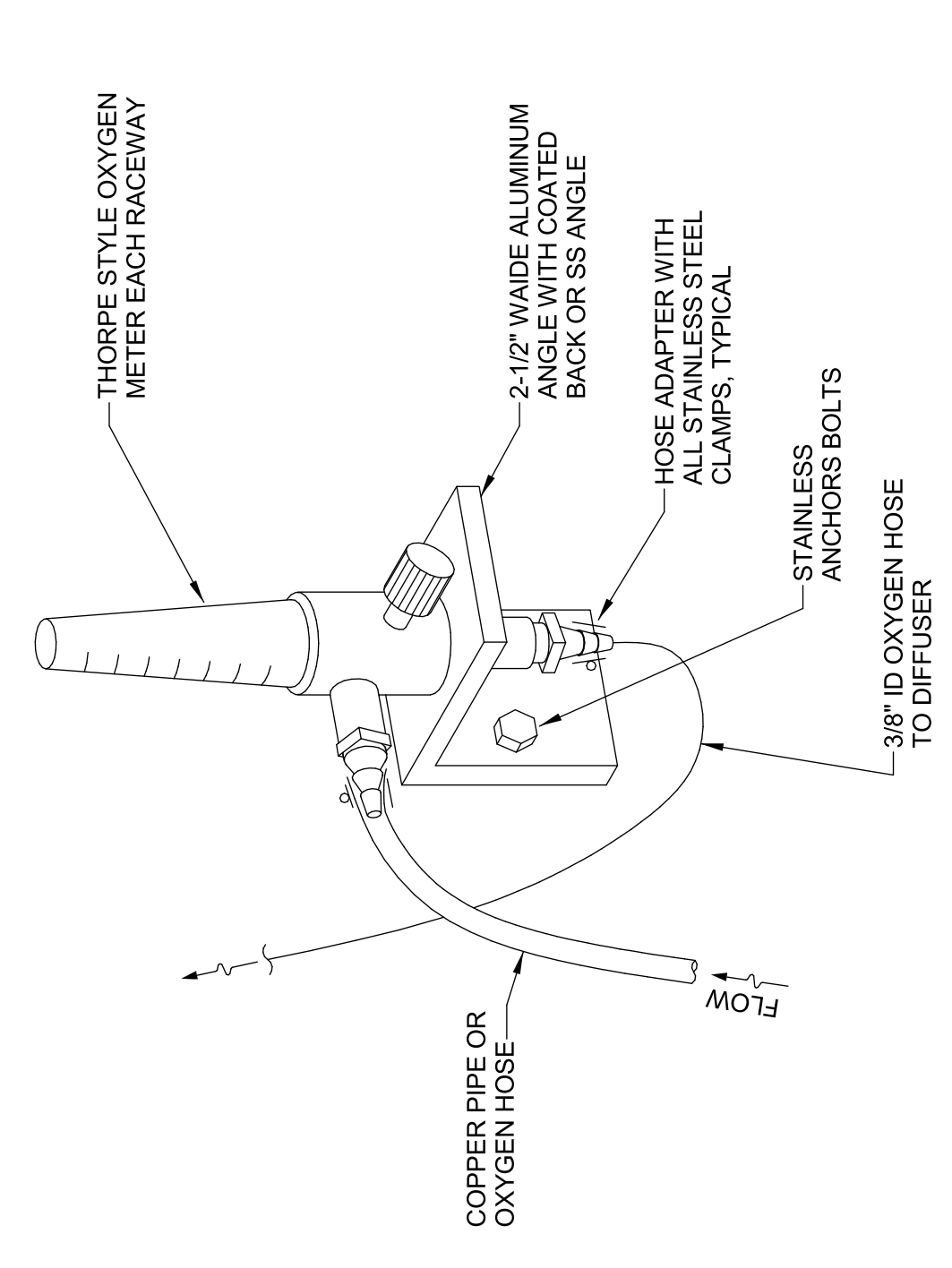
- General Notes:
 1. CONTRACTOR TO FIELD VERIFY DIMENSIONS AND ELEVATIONS BEFORE PROVIDING LHO'S.
 2. BASIS OF DESIGN IS POINT FOUR FOR DIFFUSERS AND NP INNOVATIONS FOR LHO'S



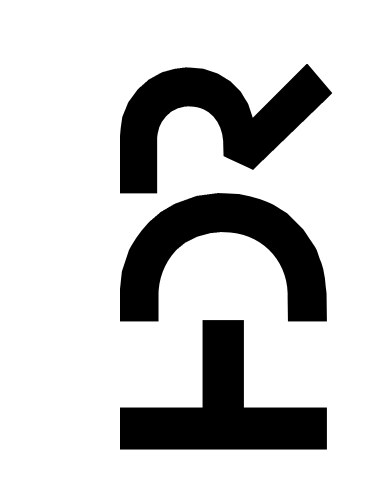
1 LHO DETAIL
NOT TO SCALE

PROCESS MANHOLE SCHEDULE									
MANHOLE TAG	INSIDE DIMENSION (FT)	CENTERLINE ELEVATION (FT)	PIPE	IN OR OUT	DIRECTION	ORIGIN OR DESTINATION	LID TYPE	RIM ELEVATION	STEPS AND LID
MH7	4	280.94 280.93	18" SDR35 18" SDR35	IN OUT	W S	Filter Building MH6 (E)	24" ID CAST IRON VENTED FRAME AND LID	285.35	NE
MH8	4	279.03 279.02 279.02	15" SDR35 12" SDR35 12" SDR35	IN OUT OUT	S NW NE	Manhole 9 Filter Building Filter Building	24" ID CAST IRON VENTED FRAME AND LID	285	WSW
MH9	4	279.07 279.05 279.05 279.04	12" SDR35 12" SDR35 15" SDR35 15" SDR35	IN IN IN OUT	W S 30 Deg W SE N	Upper and Lower Pavilions Raceway Drainage Raceway Show Pool Manhole 8	24" ID CAST IRON VENTED FRAME AND LID	285	E
MH10	4	280.98 280.78	12" C905 12" C905	IN OUT	SW NE	Upper Pavilion Lower Pavilion	24" ID CAST IRON VENTED FRAME AND LID	287.39	SE
MH11	4	282.17 280.06 279.99	12" C905 6" SDR35 12" SDR35	IN IN OUT	NW W S	Upper Pavilion Upper Pavilion MH9	24" ID CAST IRON VENTED FRAME AND LID	287.39	NE
MH12	4	280.22 280.52	6" (WDW) 12" (WDW)	IN OUT	N E	Upper Pavilion MH9	24" ID CAST IRON VENTED FRAME AND LID	287.9	S
MH13	4	289.00 288.00	14" C905 14" C905	IN OUT	S E	Raceway Header Upper Pavilion	24" ID CAST IRON VENTED FRAME AND LID	290.98	S

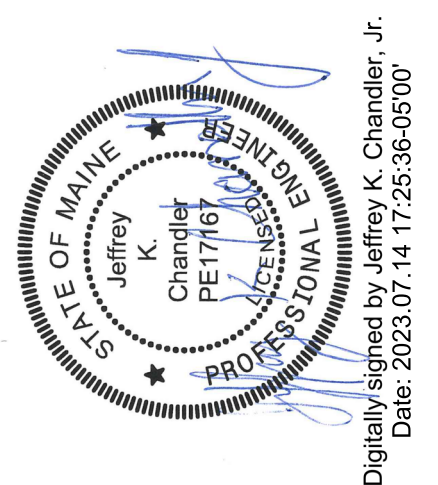
- General Notes:
 1. Any pump stations, pump station valve vaults, valve basins and air release valve vaults are not included in this manhole schedule. See individual drawings.
 2. All Manholes on this schedule will be precast.
 3. Manholes are numbered 7-10 to exclude existing manholes that may be referenced from earlier site improvement projects (Manhole 6 for example)



2 OXY METER DETAIL
NOT TO SCALE



PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



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IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

PROCESS SCHEDULES 2



SCALE NOT TO SCALE

SHEET 00D-603

Mechanical Louver Schedule															
Tag	Building	Associated Systems	Airflow (CFM)	Damper Tag	Width (IN)	Height (IN)	Depth (IN)	Free Area (IN)	Free Area Velocity (FPM)	Pressure Drop (Inches of H2O)	Frame Thickness (IN)	Blade Thickness (IN)	Top of Louver Elevation	Accessories	Make & Model
L-1	Effluent Treatment Building	WEF-1	2,000	DP-1	24	24	6	288	1000	0.375	6	6	287.5	1,2	Greenheck-ESD-603

Accessories:

- Internally mounted aluminum bird screen
- Kynar/Hylar premium paint finish, owner will select from manufacturer's standard colors. Submit color chart

Notes:

A. Louvers shall be selected at free area velocities no greater than those shown, and in no case, greater than the beginning point of water penetration as determined by the AMCA water penetration test.

Exhaust Fan Schedule															
Tag	Building	Fan Type	Drive Type	Airflow (CFM)	NOISE LEVEL (SONES)	Static Pressure (Inches of H2O)	Motor			Minimum Damper Dimensions (IN)	Tags		Weight (lb)	Accessories	Make & Model
							HP	RPM	Volts		PH	ENCL			
WEF-1	Effluent Treatment Building	Wall	Direct	2000		0.375	1/2	1140	120	1	ODP	DP-1	90	1,2,3	Greenheck USGF-161-B-CW
WEF-2	UPPER PAVILION	WALL	DIRECT	50 (MIN)	10	0.375	NA	3100	120	1	ODP	DP-3	7.4	2,3	FANTECH RVF 4
WEF-3	LOWER PAVILION	WALL	DIRECT	50 (MIN)	10	0.375	NA	3100	120	1	ODP	DP-4	7.4	2,3	FANTECH RVF 4

Accessories:

- Aluminum bird screen
- NEMA-1 disconnect factory mounted and wired
- Thermal overloads in motor or factory mounted disconnect

HEAT RECOVERY VENTILATOR SCHEDULE							
TAG	MINIMUM SENSIBLE EFFICIENCY AT 32 F OUTSIDE AIR	ROOM OR SPACE SERVED	FAN DATA		MOTOR DATA		
			FLOW (CFM)	SP (IN OF H2O)	MAX POWER (WATT)	V/PH	
HRV-1	75% AT 64 CFM	EFFLUENT TREATMENT BUILDING	132	0.4	163	120/1	REMOTE WALL

NOTES:

- AIR CONNECTIONS 4" ROUND OR 5" OVAL WITH PLASTIC ALUMINIUM OR STAINLESS TRANSITIONS TO 4" ROUND PVC DUCT

PROPANE UNIT HEATER SCHEDULE	
TAG	UH-1
BTUH INPUT MINIMUM	30,000
AFUE	82
VOLTS	120
PHASE	1
FULL LOAD AMPS	3.7
MOCP (AMPS)	15
TEMPERATURE RISE (F)	45
BLOWER HP	1/6
MOUNTING HEIGHT (FT)	9
THROW 50 FPM DISTANCE	32
WEIGHT	300 LB
ACCESSORIES	1, 2, and 3
MAKE & MODEL	REZNOR UBX-30

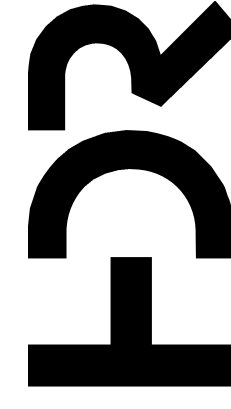
ACCESSORIES

- BUILT-IN DISCONNECT
- 24 VOLT TRANSFORMER
- HORIZ. AIR/VENT KIT, INCL. CONCENTRIC ADAPTER

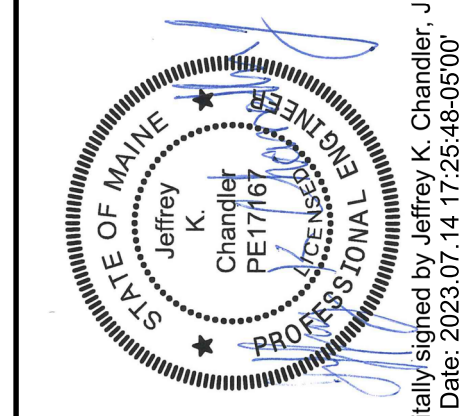
Damper Schedule											
Tag	Building	Associated Equipment	Airflow (CFM)	Width (IN)	Height (IN)	Leakage (CFM/5F@ 1" H2O)	Actuator		Materials	Accessories	Make & Model
							Max Operation Time (sec)	Fail Position			
DP-1	Effluent Treatment Building	L-1	2000	24	24	3	60	Closed	ALUM.	1, 2, 3, 4	Tamco 9000-BF
DP-2	Effluent Treatment Building	WEF-1	2000	15	15	3	60	Closed	ALUM.	1,2,3,4	Ventex 1900 Series
DP-3	UPPER PAVILION	WEF-2	50 (MIN)	4" DIA	4" DIA	3	60	CLOSED	ALUM.	NA	FANTECH RSK 4
DP-4	LOWER PAVILION	WEF-3	50 (MIN)	4" DIA	4" DIA	3	60	CLOSED	ALUM.	NA	FANTECH RSK 4

Accessories:

- Thermally broken frame and blades
- Actuator operating and/or holding power requirements shall not exceed 25 watts per actuator
- Insulated & broken airfoil blades, 304 SS axle and linkage, synthetic axle bearings, silicone blade and jamb seals
- Removable framed aluminum or SS insect screen



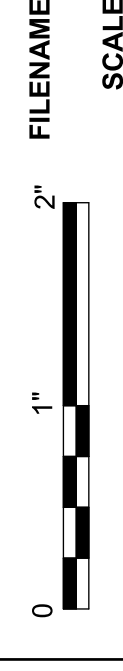
PROJECT MANAGER	ANDREW GURSKI
	CIVIL J. GAGNON
	STRUCTURAL B. BRADLEY
	ARCHITECTURAL M. BASKIN
	PROCESS J. CHANDLER
	MECHANICAL J. CHANDLER
	ELECTRICAL A. KANER
PROJECT NUMBER	10357686



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IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

MECHANICAL SCHEDULES

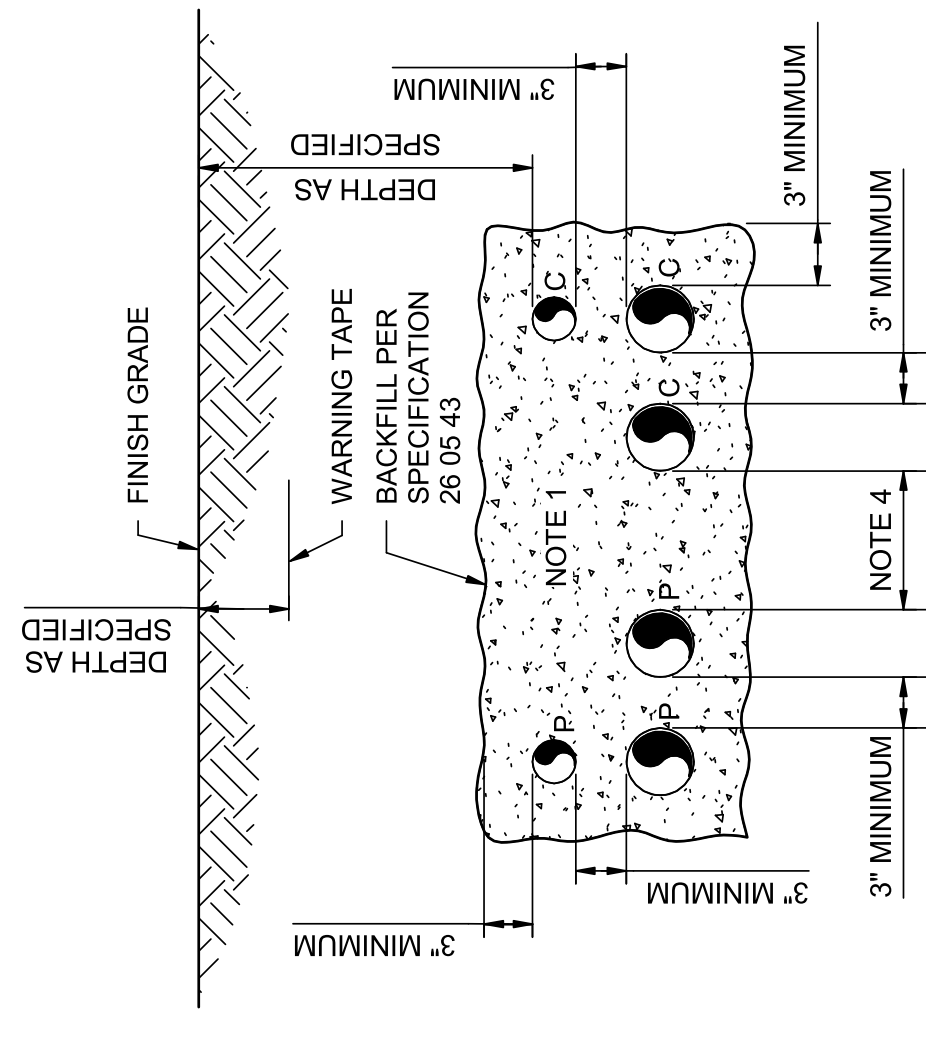


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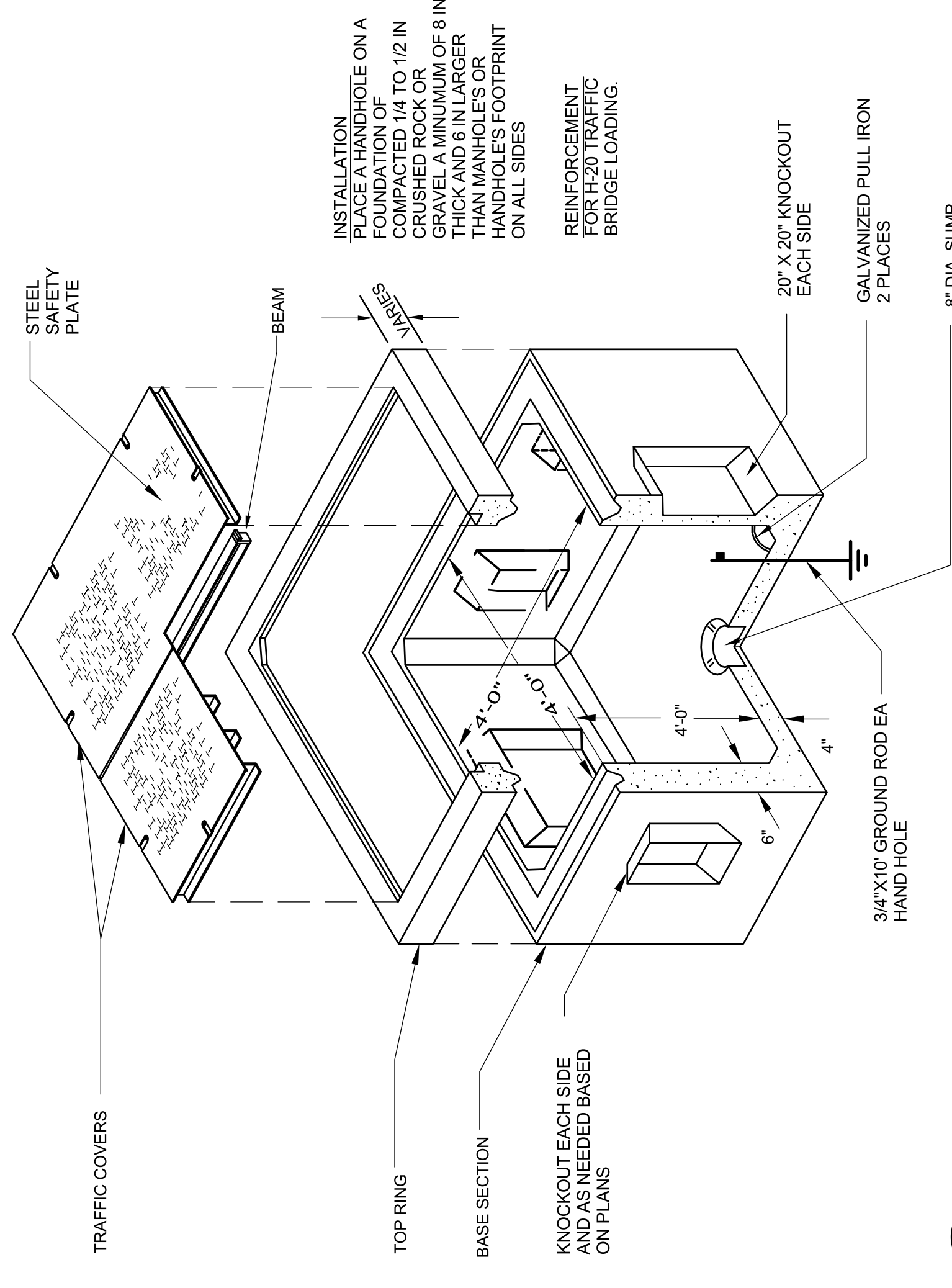
SHEET

00M-601

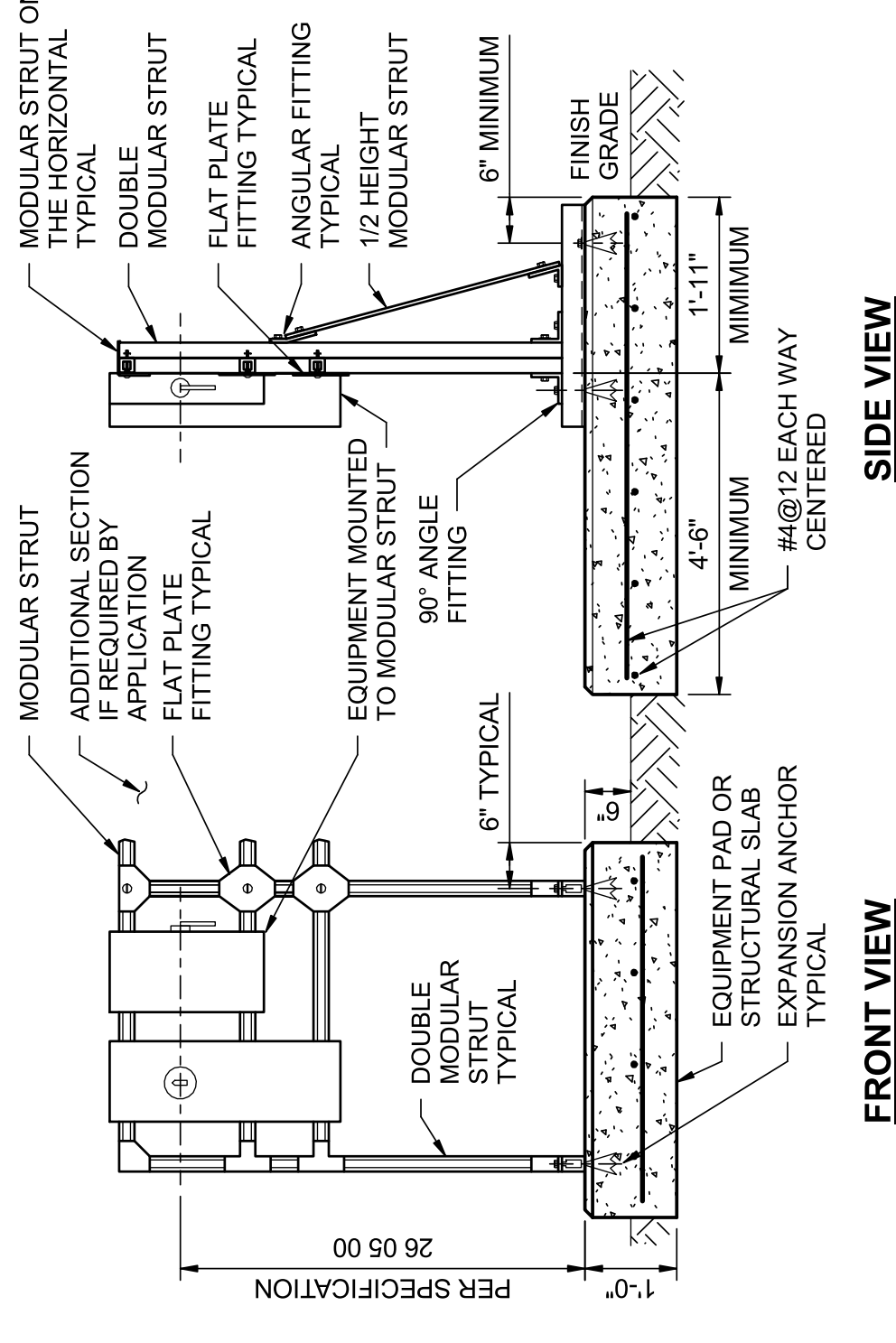


- NOTES:**
1. NUMBER OF CONDUITS AS REQUIRED FOR THE APPLICATION.
 2. P SUBSCRIPT ELECTRICAL POWER OR CONTROL CONDUIT.
 3. C SUBSCRIPT COMMUNICATION (TELEPHONE, DATA, INSTRUMENTATION) CONDUIT.
 4. 6" MINIMUM WHEN POWER CONDUIT CONTAINS LESS THAN 1000V. 12" MINIMUM WHEN POWER CONDUIT CONTAINS MORE THAN 1000V.
 5. UTILITY PRIMARY CONDUITS SHALL BE BURIED 48" MINIMUM.

1 DIRECT BURIED CONDUIT(S) SECTION
NOT TO SCALE

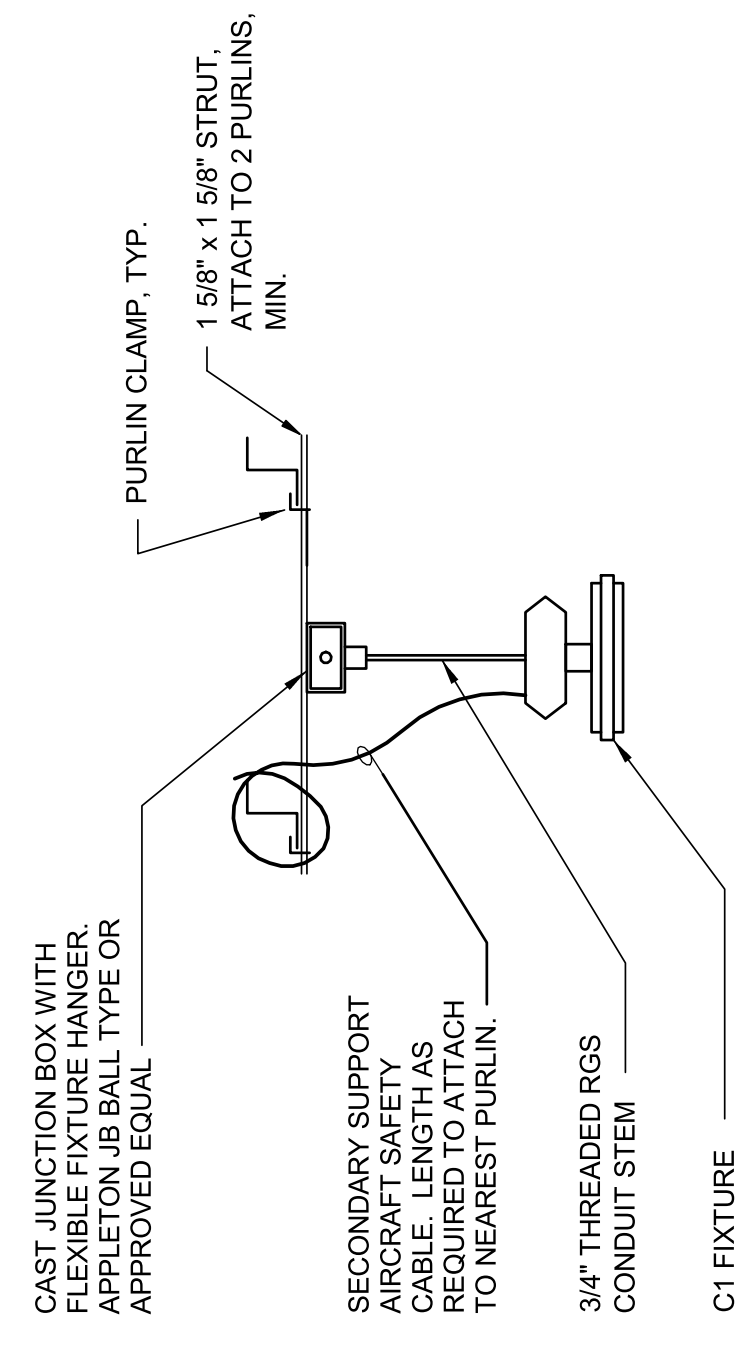


2 HANDHOLE DETAIL
12" = 1'-0"

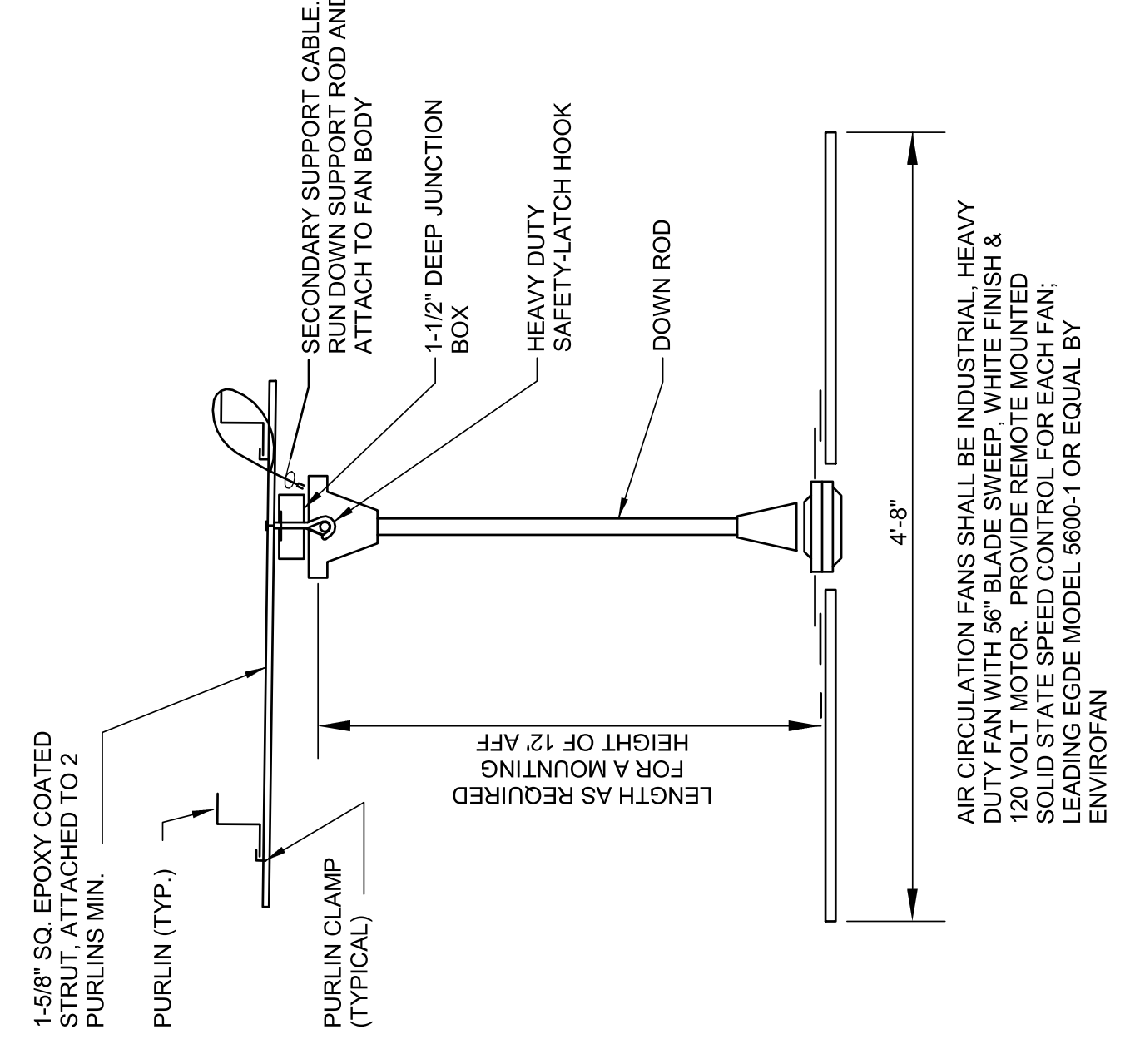


- NOTES:**
1. COMBINED EQUIPMENT LOADS PER 36" SPAN SHALL NOT EXCEED 500LBS.
 2. PROVIDE GROUNDING FOR OUTDOOR INSTALLATIONS, PER SPECIFICATION 05 50 00.
 3. MODULAR STRUT WIDTH: 1.58"
 4. RACK ASSEMBLY MATERIAL: GALVANIZED PER SPECIFICATION 26 05 00.
 5. ANCHORS: STAINLESS STEEL, 1/2" DIAMETER, 3 1/2" EMBEDMENT, PER SPECIFICATION 03 15 19.
 6. REPAIR CUT ENDS AND DAMAGED SURFACES IN ACCORDANCE WITH SPECIFICATION 05 50 00.

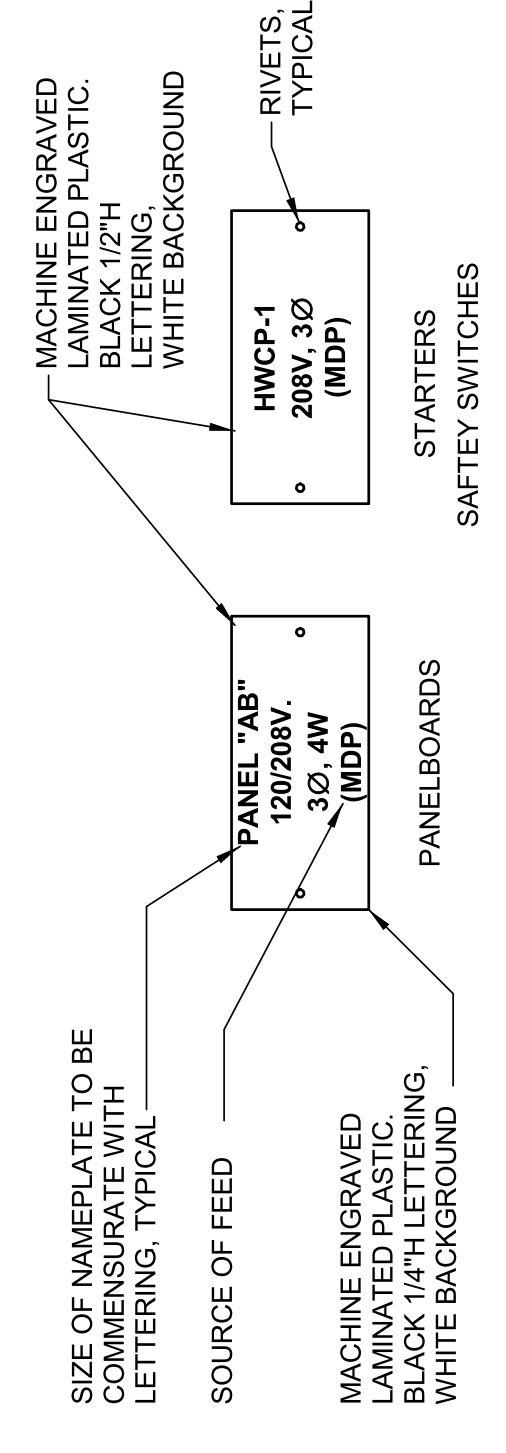
3 MODULAR EQUIPMENT RACK ON CONCRETE PAD
NOT TO SCALE



4 C1 FIXTURE MOUNTING DETAIL
NOT TO SCALE



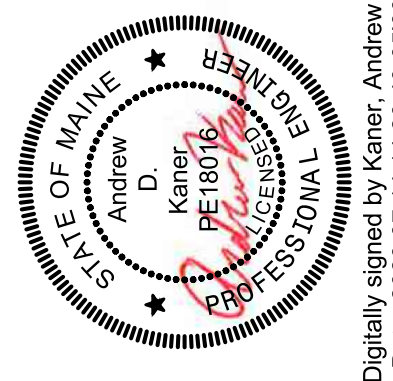
5 AIR CIRCULATING FAN MOUNTING DETAIL
NOT TO SCALE



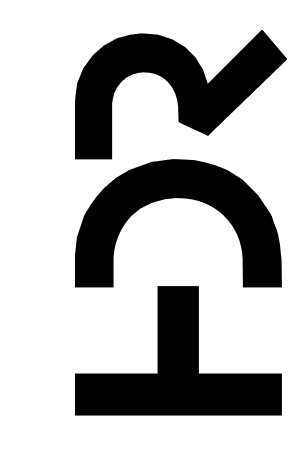
6 NAME PLATES DETAIL
NOT TO SCALE

ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

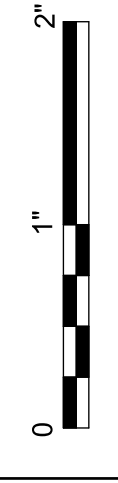


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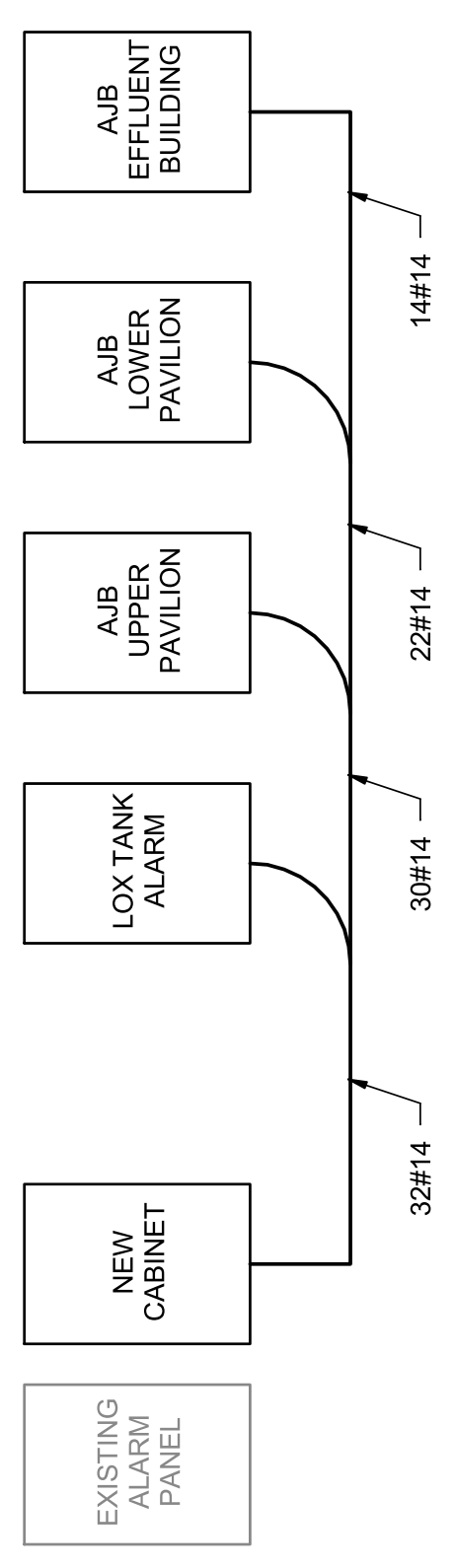
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

GENERAL ELECTRICAL DETAILS 1



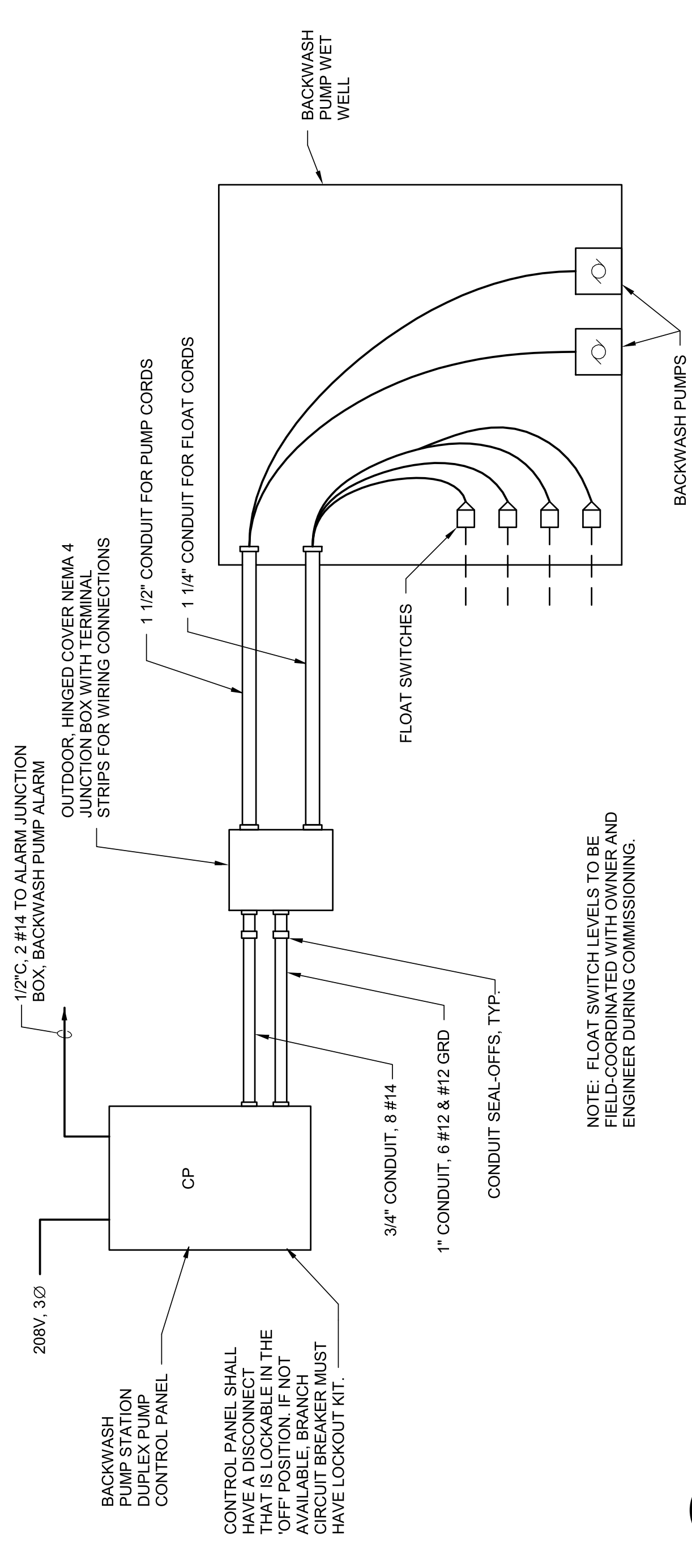
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SCALE AS NOTED

SHEET 00E-501

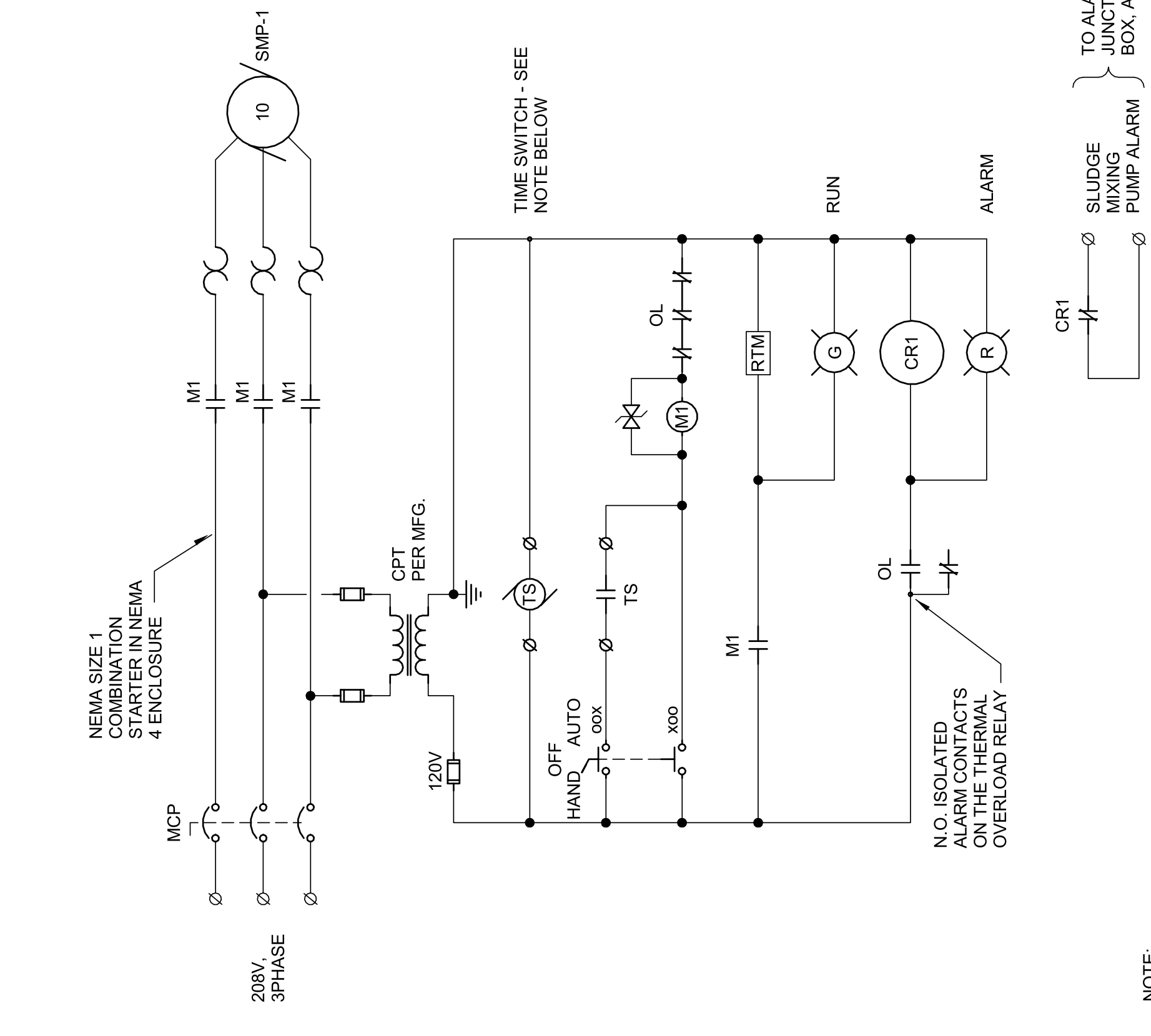


- NOTES:**
- COORDINATE WITH SEACOAST SECURITY FOR DETAILED REQUIREMENTS.
 - PROVIDE NEW CABINET NEXT TO EXISTING SECURITY PANEL. PANEL TO INCLUDE TWO 8-INPUT EXPANSION MODULES.
 - PROVIDE 6 SPARE #14 WIRES BACK TO EFFLUENT TREATMENT BUILDING.

1 - ALARM BLOCK DIAGRAM
NOT TO SCALE



2 - BWPS-1 BACKWASH PUMP SYSTEM - BLOCK DIAGRAM
NOT TO SCALE



5 - WIRING DIAGRAM - EXHAUST FAN
NOT TO SCALE

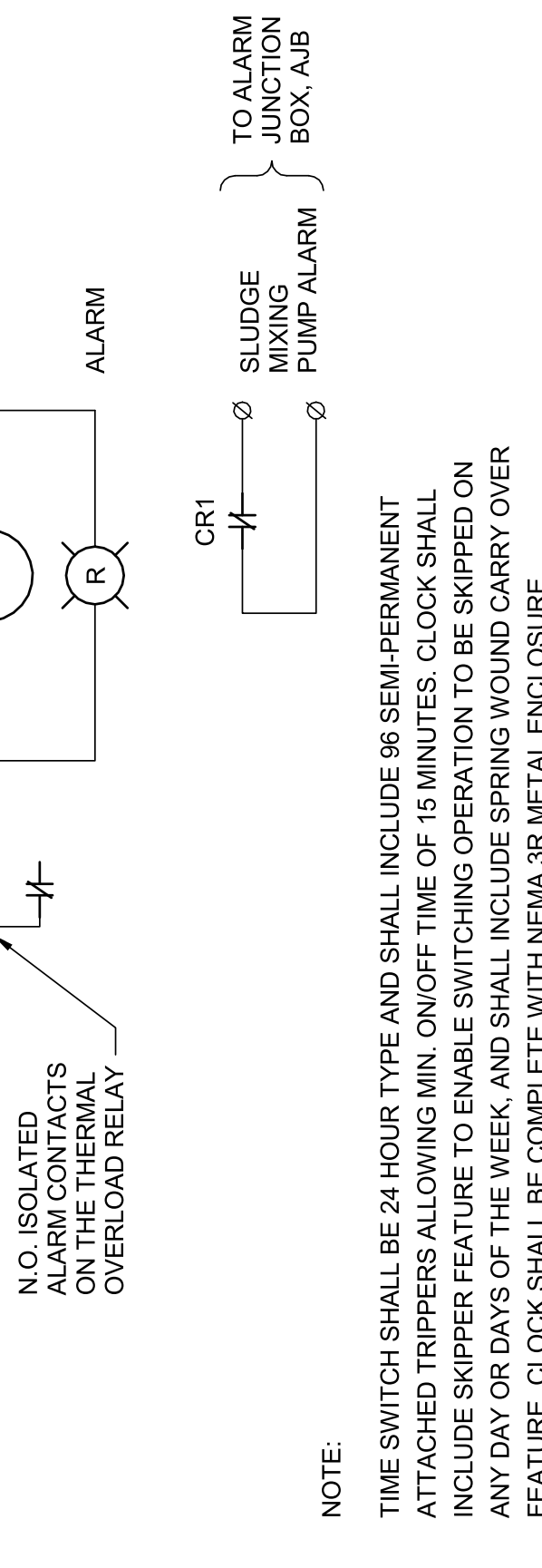
ALARM JUNCTION BOX TERMINALS - UPPER PAVILION

TERMINALS	DESCRIPTION
1a - 1b	TANK 1 - LOW LEVEL
2a - 2b	TANK 2 - LOW LEVEL
3a - 3b	TANK 3 - LOW LEVEL
4a - 4b	TANK 4 - LOW LEVEL
5a - 5b	
6a - 6b	
7a - 7b	
8a - 8b	

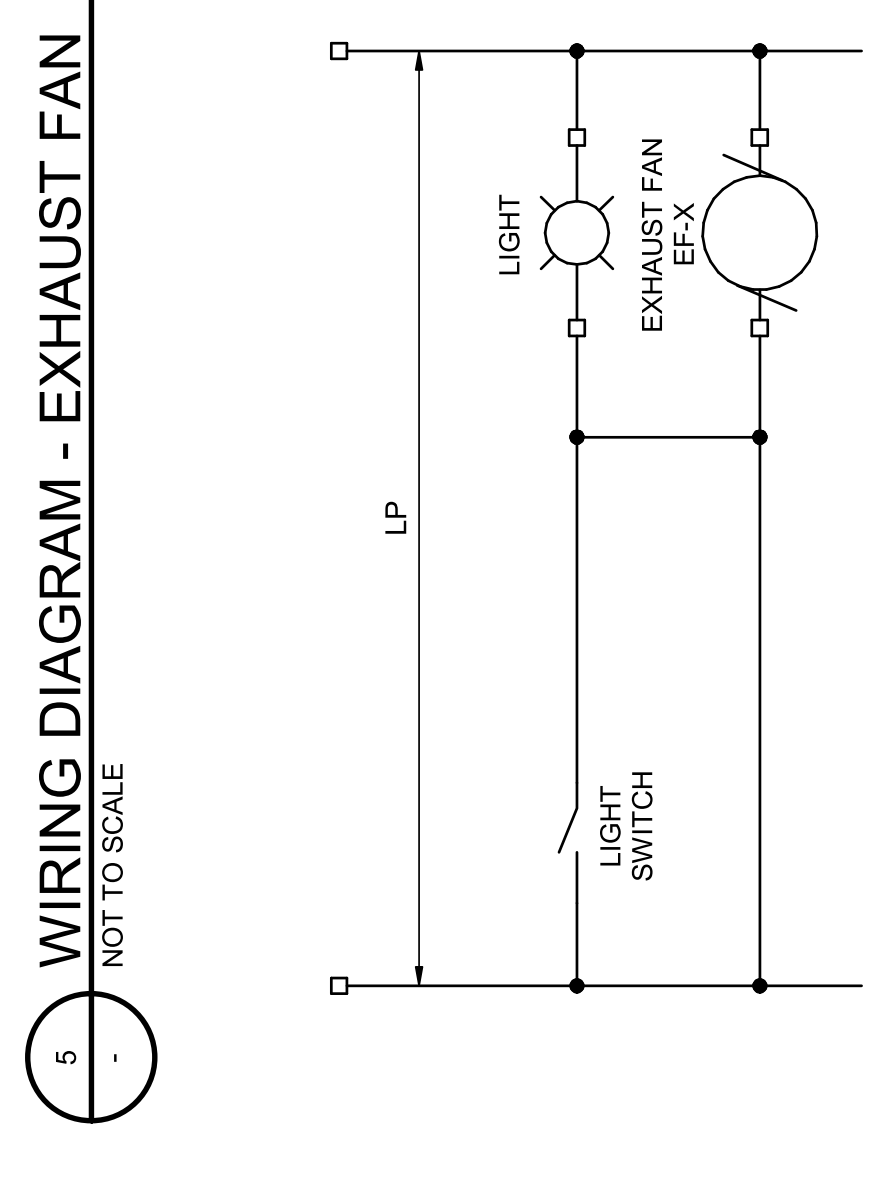
ALARM JUNCTION BOX TERMINALS - LOWER PAVILION

TERMINALS	DESCRIPTION
1a - 1b	TANK 1 - LOW LEVEL
2a - 2b	TANK 2 - LOW LEVEL
3a - 3b	TANK 3 - LOW LEVEL
4a - 4b	TANK 4 - LOW LEVEL
5a - 5b	
6a - 6b	
7a - 7b	
8a - 8b	

3 - ALARM JUNCTION BOX SCHEDULES
NOT TO SCALE



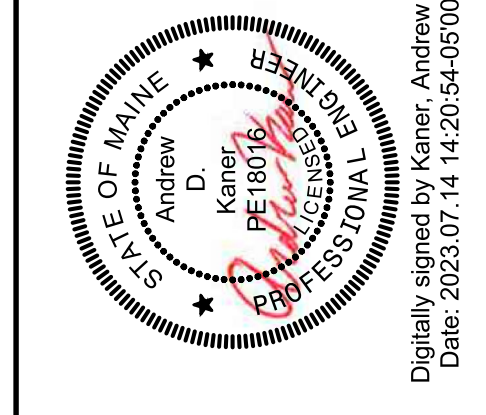
4 - SMP-1 WIRING DIAGRAM SLUDGE MIXING PUMP
NOT TO SCALE



6 - CONTROL DIAGRAM: FAN/LIGHT
12" = 1'-0"

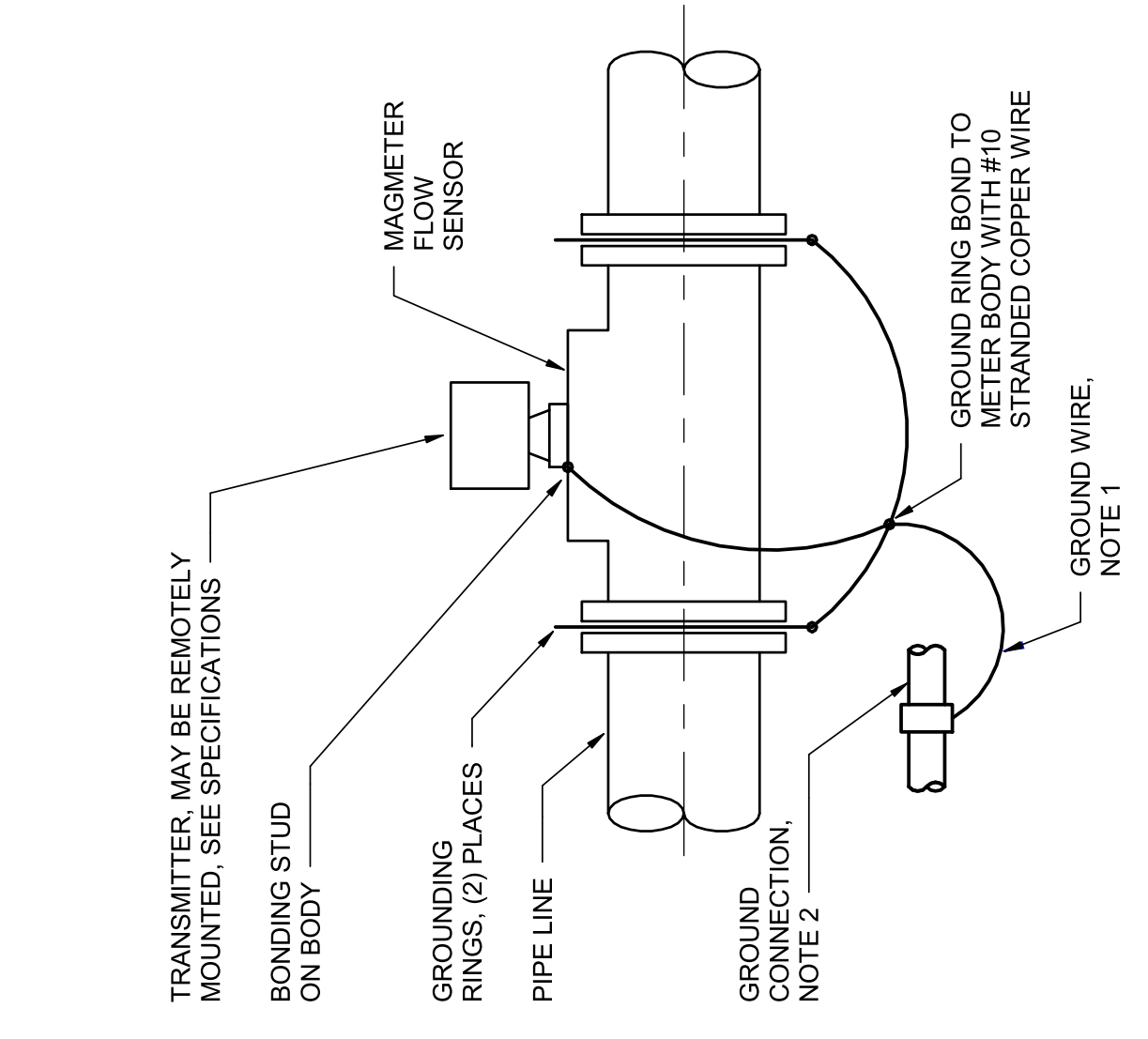
ISSUE	DATE	DESCRIPTION
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PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



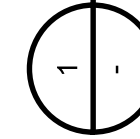
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

GENERAL ELECTRICAL DETAILS 2

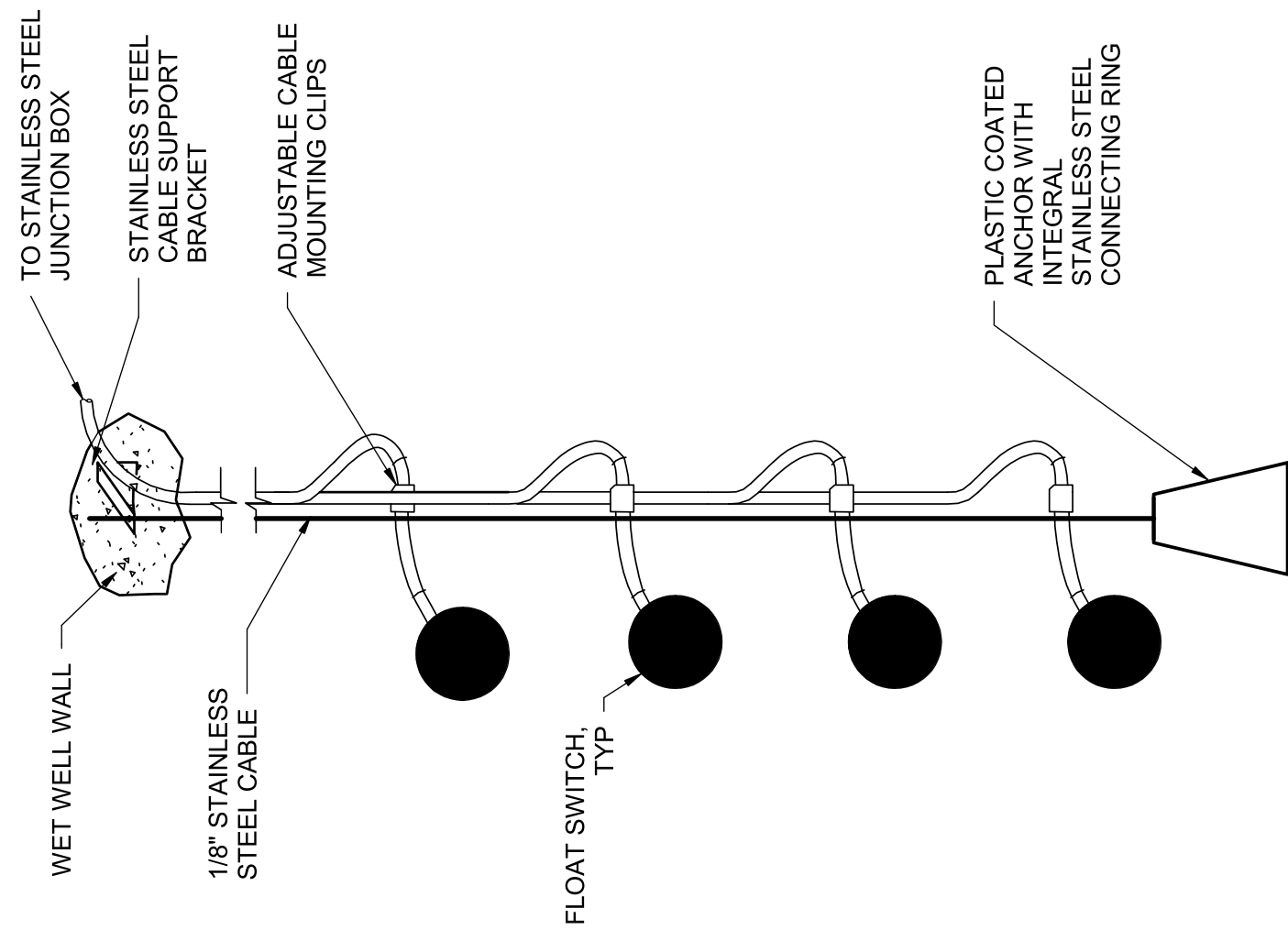


- NOTES:
- NO. 10 AWG INSULATED IF LENGTH IS LESS THAN 6'. IF MORE THAN 6', INSTALL CONDUCTOR IN 3/4" CONDUIT.
 - BOND MAGNETER TO ONE OF THE FOLLOWING ACCEPTABLE GROUNDS:
 - POWER CIRCUIT GROUND CONDUCTOR AT TRANSMITTER
 - NEAREST AVAILABLE EQUIPMENT GROUND CONNECTION POINT.
 - SEPARATE TAIL FROM EMBEDDED GROUND MAT.

**MAGNETIC FLOW METER
GROUNDING RING BONDING**

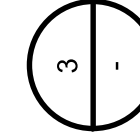


12" = 1'-0"

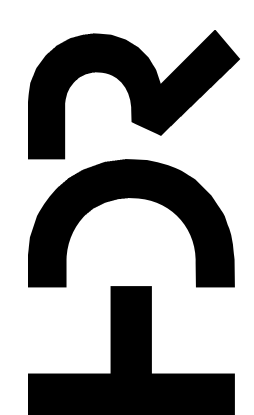


- NOTES:
- LEVEL FLOATS TO BE MOUNTED WITHIN 18" TO ONE SIDE OF ACCESS OPENING.
 - WHEN FLOATS ARE SET CLOSER THAN 18" OF LEVEL DIFFERENCE, ROTATE FLOATS AROUND PIPE TO AVOID INTERFERENCE.

**TYPICAL WET WELL LEVEL FLOATS
INSTALLATION DETAIL**



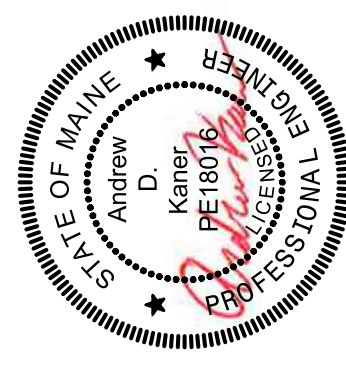
NOT TO SCALE



**IMPROVEMENTS AT GRAND
LAKE STREAM STATE FISH
HATCHERY**

GENERAL INSTRUMENTATION DETAILS 1

PROJECT MANAGER	ANDREW GURSKI
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



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1 2 3 4 5 6 7 8

UTILITY COMPANY PROVIDED AND CONTRACTOR INSTALLED TRANSFORMER. CONTRACTOR SHALL PROVIDE PAD AND GROUNDING AS REQUIRED BY UTILITY COMPANY.

#6 AWG FROM MV CABLE SHIELD AND SURGE ARRESTOR TO GROUND CONDUCTOR WHEN PROVIDED.

MANUFACTURER'S CONNECTION, TYPICAL.

#2/0 AWG TO GROUND PAD

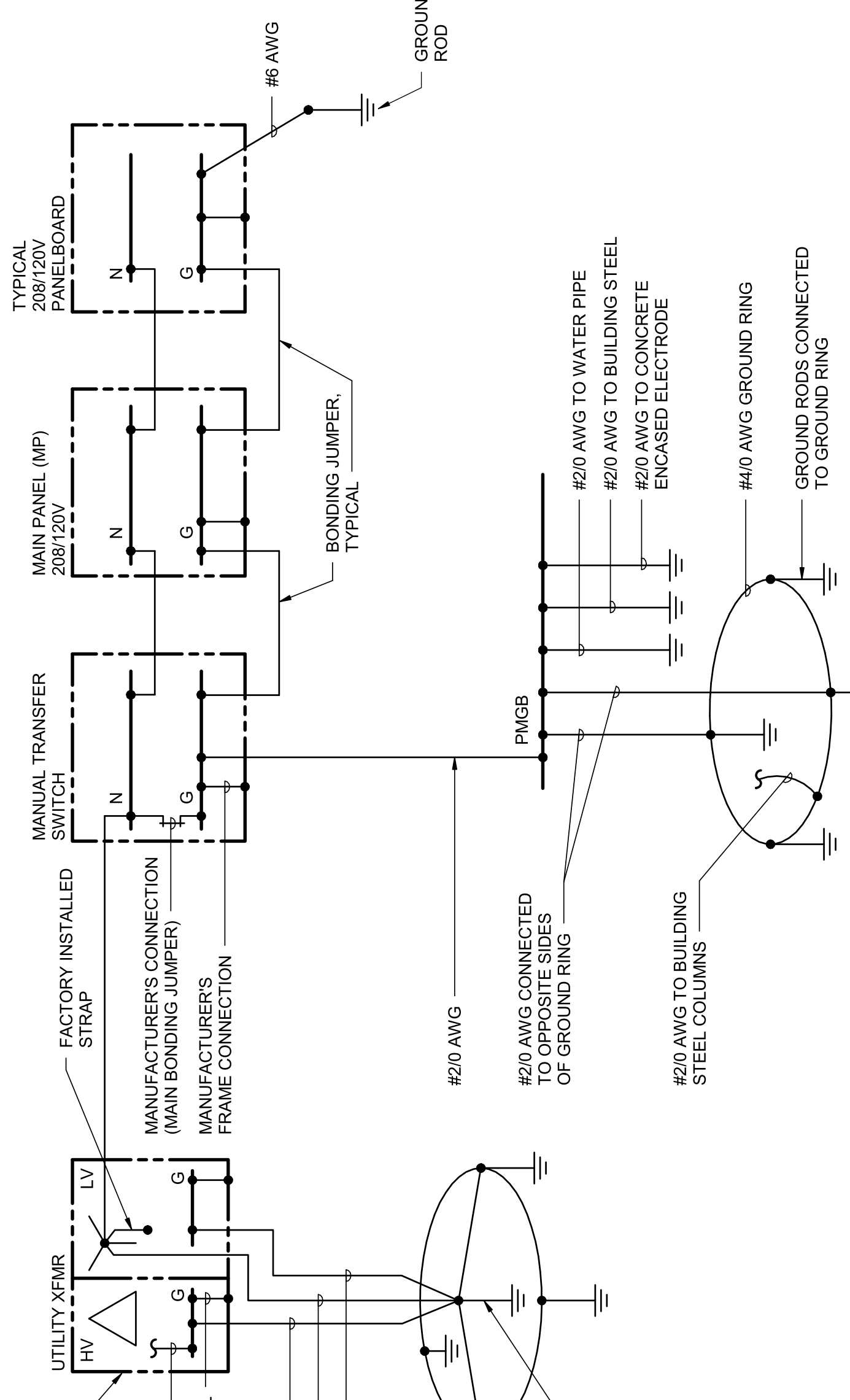
#2/0 AWG TO "X"

#2/0 AWG TO GROUND PAD

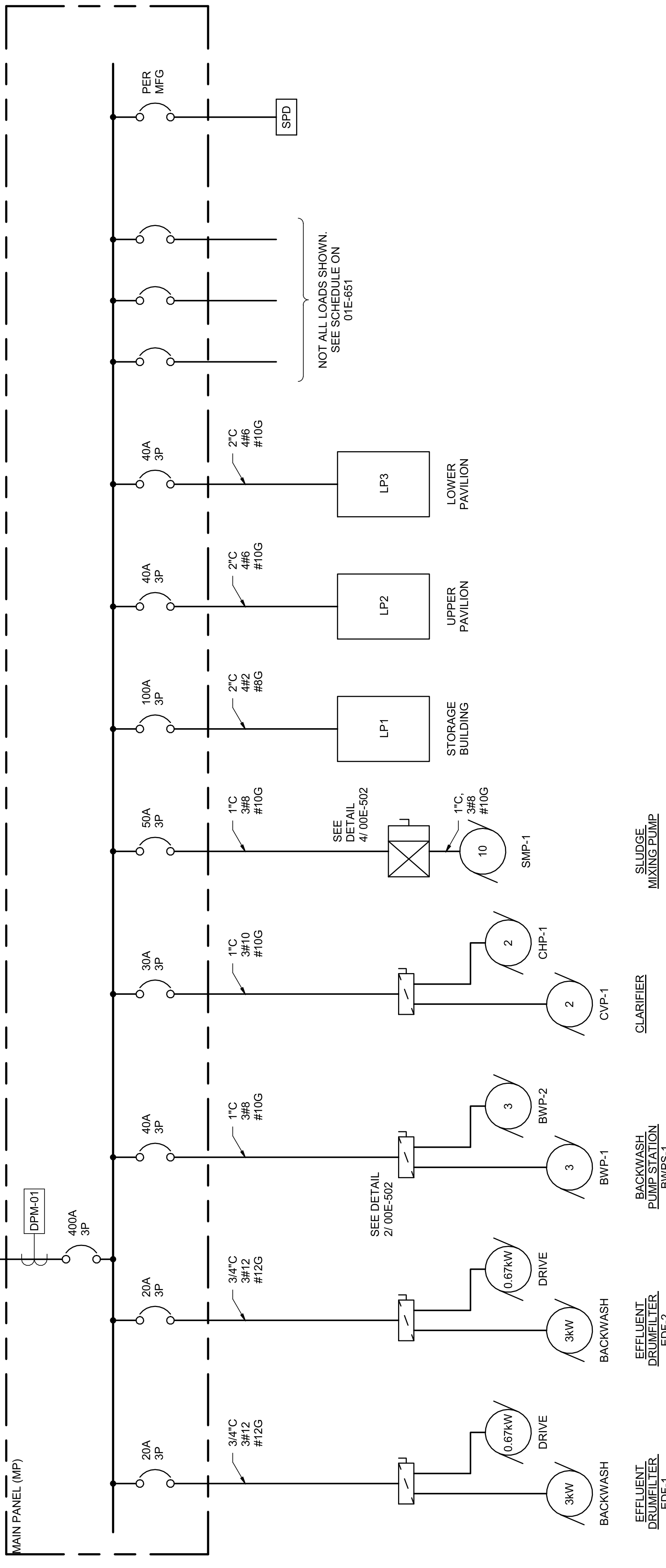
#4/0 AWG TO GROUND RING PLACED 1 FT FROM TRANSFORMER PAD

GROUND RODS CONNECTED TO GROUND RING, MINIMUM OF FOUR

GROUND ROD IN TERMINATION COMPARTMENT



2 GROUNDING DIAGRAM
NOT TO SCALE

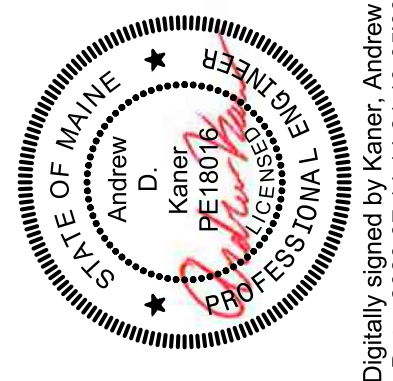


1 ONE LINE DIAGRAM
NOT TO SCALE

PROJECT MANAGER ANDREW GURSKI

CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER

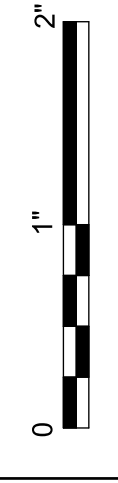
PROJECT NUMBER 10357686



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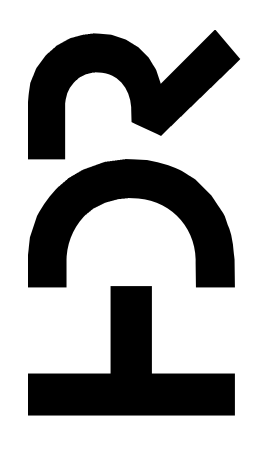
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

DIAGRAMS



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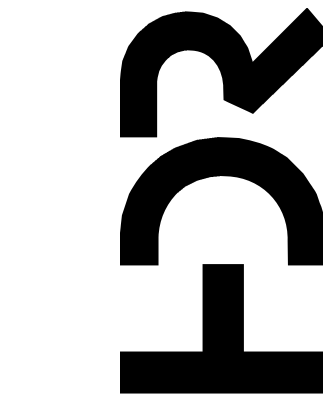
SHEET 00E-601



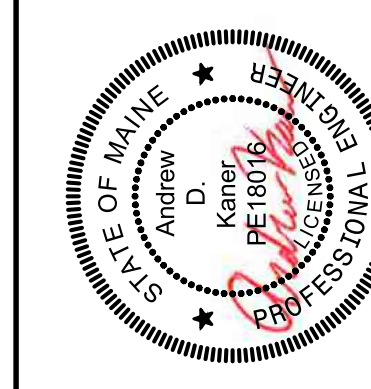
ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

LUMINAIRE SCHEDULE									
ID	DESCRIPTION	MANUFACTURER	SOURCE		VOLTS	MOUNTING		CONTROL	
			TYPE	LUMENS		WATTS	TYPE		HEIGHT
B1	STRIP LIGHT (4')	LITHONIA: CLX SERIES, 4000K, 80 CRI	LED	5,000	34.8	120	AIRCRAFT CABLE	AS NOTED	A
C1	HIGH BAY W/ INTEGRAL OCCUPANCY SENSOR	LITHONIA: JHBL SERIES, 4000K, 80 CRI	LED	12,000	83	120	PENDANT	12' AFF	B
F1	ARCHITECTURAL GRADE AREA LIGHT LENS: MOLDED REFRACTIVE ACRYLIC DISTRIBUTION: FULL CUTOFF, NEMA TYPE 3 HOUSING: DARK BRONZE ALUMINUM FIXTURE SHALL INCLUDE PHOTOCELL, TWISTLOCK POLE: STEEL WITH HANDHOLE HEIGHT: 18'-0" SIZE: 5" ROUND, NON-TAPERED, 0.120" THICKNESS FINISH: DARK BRONZE	LITHONIA: KAD 4000K, 30 LED PACKAGE MANUFACTURER STANDARD	LED	8,360	69	120	POLE	AS INDICATED	C
W1	WEATHER-PROOF WALLPACK W/ EMERGENCY BACKUP, COLD-WEATHER RATED	LITHONIA: ARCL SERIES, 4000K, P3	LED	3,000	25	120	WALL	6" ABOVE DOOR	C
W2	WEATHER-PROOF WALLPACK W/ EMERGENCY BACKUP, COLD-WEATHER RATED	LITHONIA: ARCL SERIES, 4000K, P5	LED	6,500	25	120	WALL	6" ABOVE DOOR	C

GENERAL NOTES:
 1. WHERE LUMINAIRES ARE SHOWN ON THE DRAWINGS AS EMERGENCY TYPE, PROVIDE INTEGRAL BATTERY AND EMERGENCY DRIVER.
 LIGHTING CONTROL STRATEGY DESCRIPTION:
 A. MANUAL ON / MANUAL OFF: OCCUPANT MANUALLY TURNS THE LIGHTS ON WHEN ENTERING SPACE. OCCUPANT MANUALLY TURNS THE LIGHTS OFF WHEN LEAVING THE SPACE.
 B. MANUAL ON / MANUAL ADJUST / MANUAL OFF / TIME SWITCH: OCCUPANT MANUALLY TURNS THE LIGHTS ON WHEN ENTERING THE SPACE. OCCUPANT CAN MANUALLY ADJUST (RAISE OR LOWER) LIGHT LEVEL OR TURN LIGHTS ON / OFF. WHEN ENABLED, TIME SWITCH TURNS LIGHTS ON / OFF AT PROGRAMMED TIMES.
 C. PHOTOCELL TURNS LIGHTS ON AT DUSK AND OFF WHEN DAYLIGHT IS PRESENT. LIGHTS ARE AUTOMATICALLY DIMMED TO REDUCE LOAD BY 50% DURING TIME WHEN ACTIVITY HAS NOT BEEN DETECTED FOR 15 MINUTES. WHERE SHOWN ON PLANS, A WALL SWITCH ALLOWS OCCUPANT TO MANUALLY TURN OFF LIGHTS.



PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



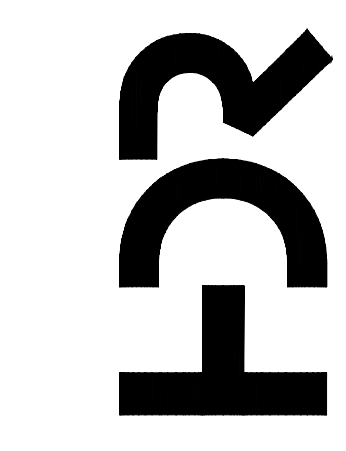
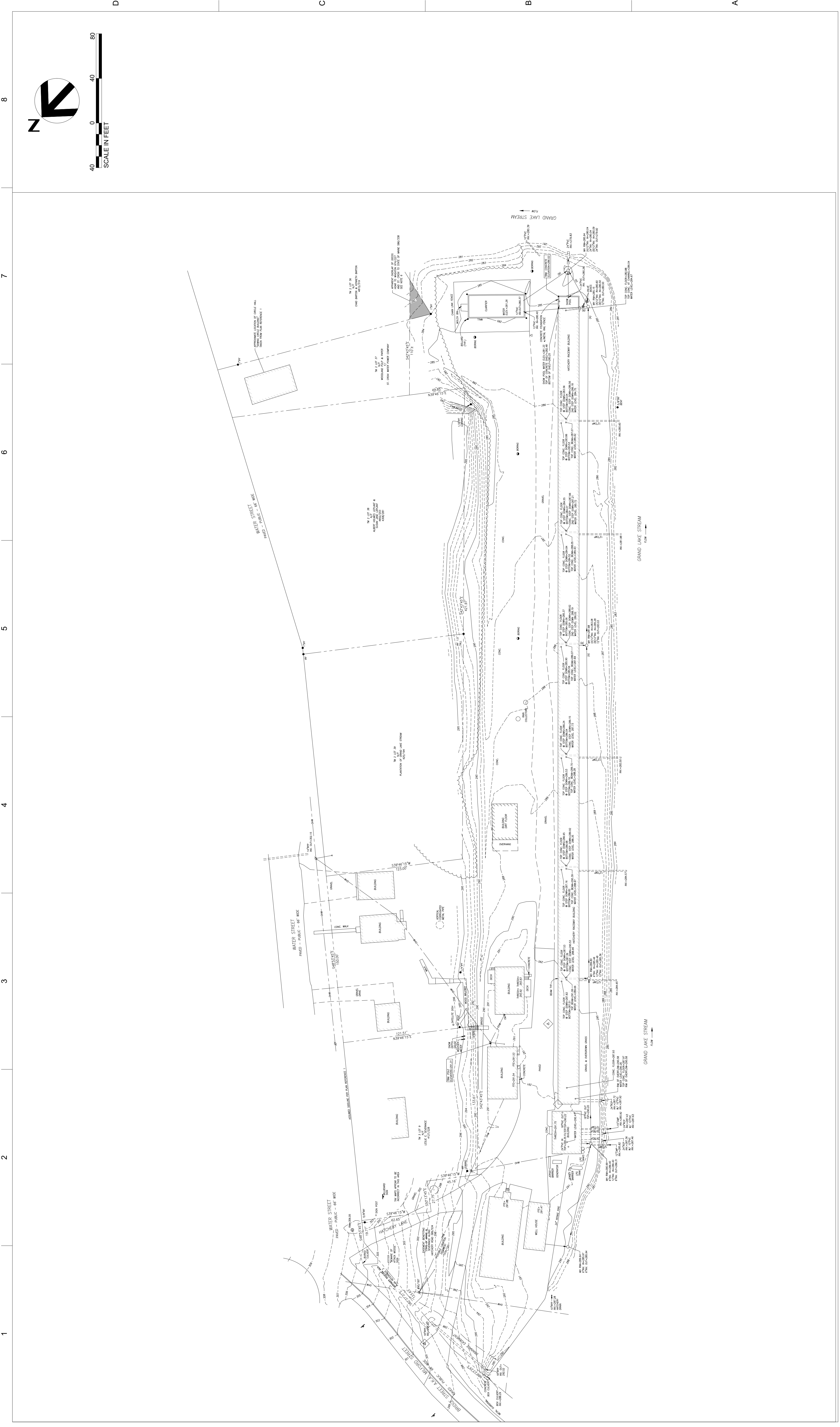
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IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

ELECTRICAL SCHEDULES 2



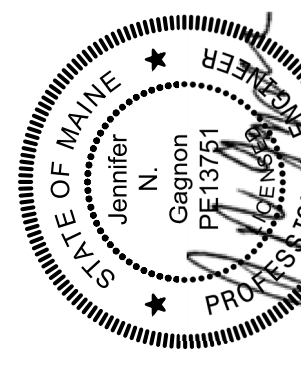
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 SCALE | NONE



IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

EXISTING TOPOGRAPHIC SURVEY

PROJECT MANAGER ANDREW GURSKI
 CIVIL J. GAGNON
 STRUCTURAL B. BRADLEY
 ARCHITECTURAL M. BASKIN
 PROCESS J. CHANDLER
 MECHANICAL J. CHANDLER
 ELECTRICAL A. KANER

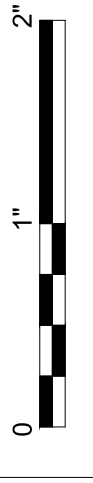


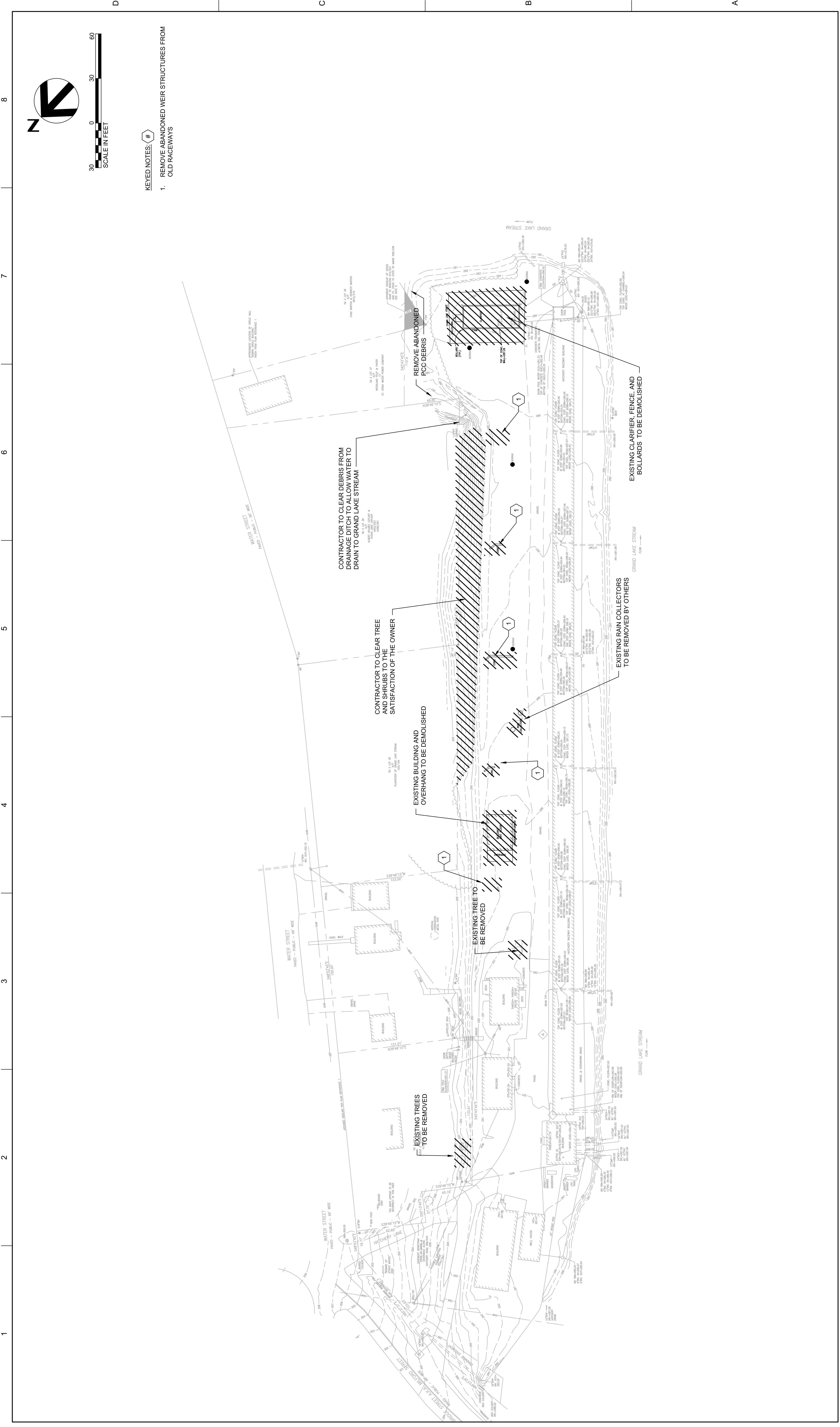
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ISSUE	DATE	ISSUED FOR BID	DESCRIPTION
	07/14/2023		

PROJECT NUMBER 10357686

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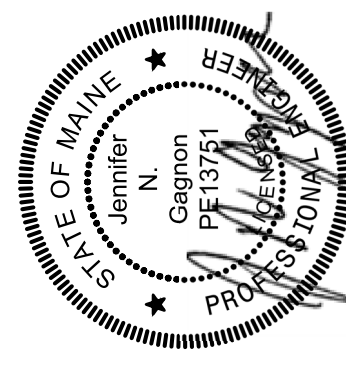


KEYED NOTES: #

1. REMOVE ABANDONED WEIR STRUCTURES FROM OLD RACEWAYS

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

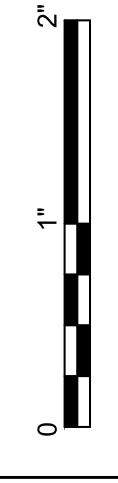
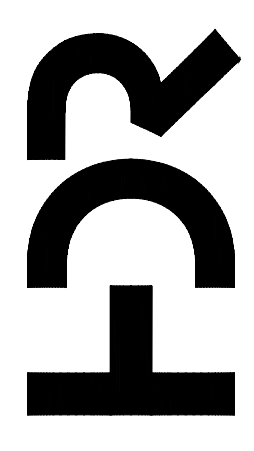
EXISTING SITE DEMOLITION PLAN



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Date: 2023.07.14 15:31:36 -0400

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

ISSUE	DATE	ISSUED FOR BID	DESCRIPTION



FILENAME | 10357686-01C-101.DWG
SHEET | 01C-101
SCALE | 1"=30'

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A B C D

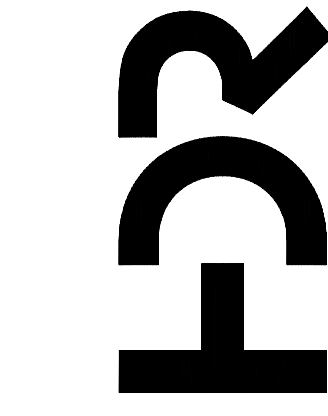
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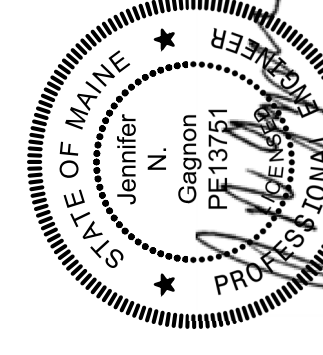
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A



PROJECT MANAGER ANDREW GURSKI
 CIVIL J. GAGNON
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**IMPROVEMENTS AT GRAND
 LAKE STREAM STATE FISH
 HATCHERY**



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 Date: 2023.07.14 15:31:56 -0400

GRADING AND DRAINAGE PLAN



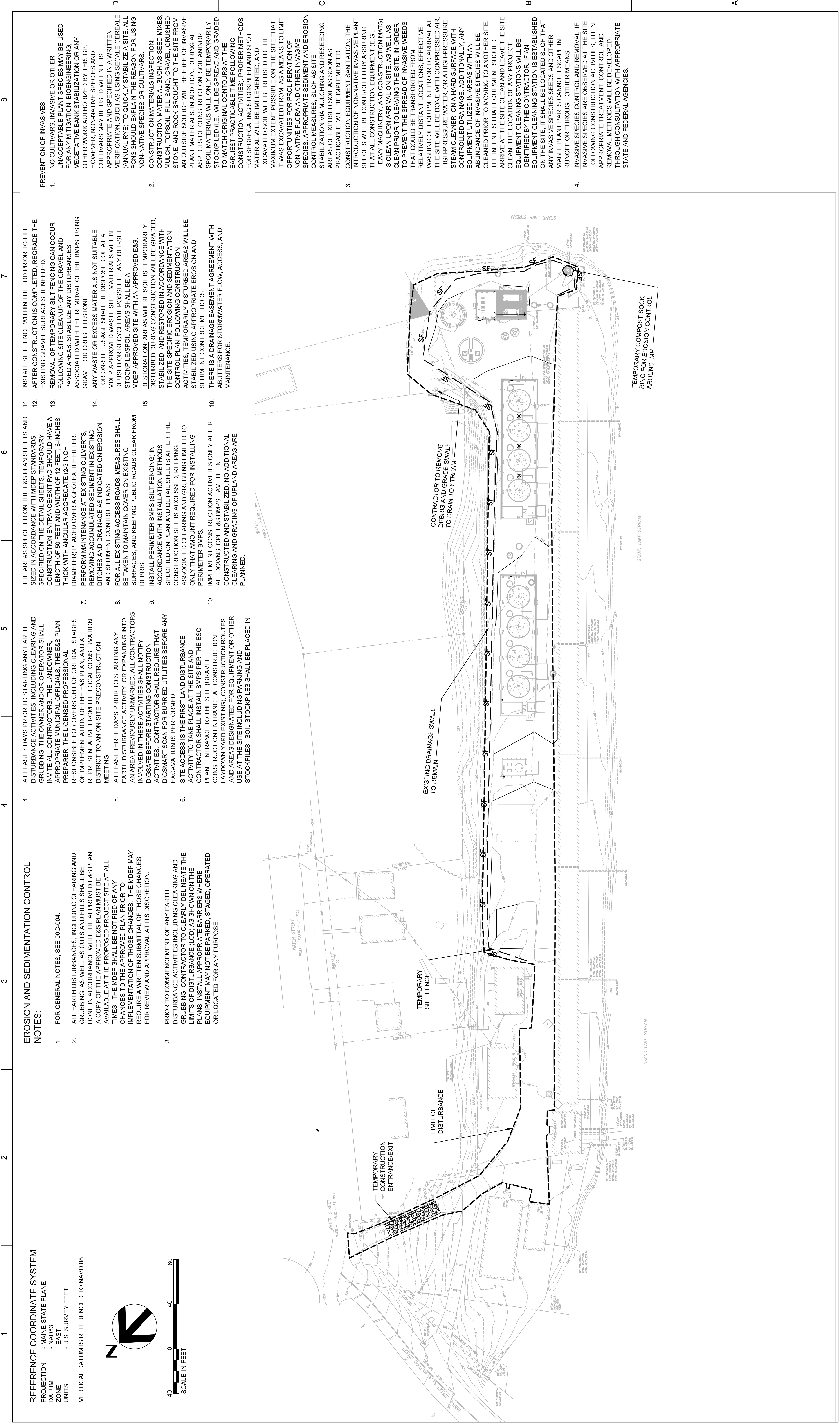
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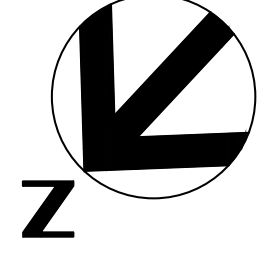
01C-102

ISSUE	DATE	ISSUED FOR BID	DESCRIPTION
	07/14/2023		

PROJECT NUMBER 10357686



REFERENCE COORDINATE SYSTEM
 PROJECTION - MAINE STATE PLANE
 DATUM - NAD83
 ZONE - EAST
 UNITS - U.S. SURVEY FEET
 VERTICAL DATUM IS REFERENCED TO NAVD 88.



SCALE IN FEET
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EROSION AND SEDIMENTATION CONTROL NOTES:

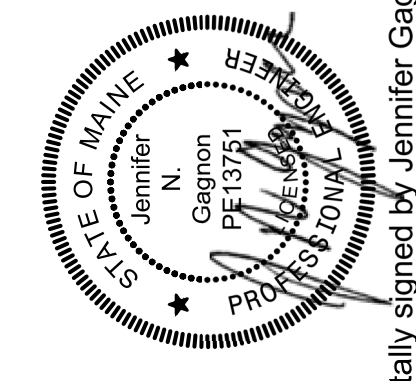
- FOR GENERAL NOTES, SEE 00C-004.
- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING, AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED E&S PLAN MUST BE AVAILABLE AT THE PROPOSED PROJECT SITE AT ALL TIMES. THE MDEP SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE MDEP MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBANCE ACTIVITIES INCLUDING CLEARING AND GRUBBING, CONTRACTOR TO CLEARLY DELINEATE THE LIMITS OF DISTURBANCE (LOD) AS SHOWN ON THE PLANS. INSTALL APPROPRIATE BARRIERS WHERE EQUIPMENT MAY NOT BE PARKED, STAGED, OPERATED OR LOCATED FOR ANY PURPOSE.
- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE E&S PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
- AT LEAST THREE DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITY, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL NOTIFY DISSAFE BEFORE STARTING CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL REQUIRE THAT DIGSMART SCAN FOR BURIED UTILITIES BEFORE ANY EXCAVATION IS PERFORMED.
- SITE ACCESS IS THE FIRST LAND DISTURBANCE ACTIVITY TO TAKE PLACE AT THE SITE AND CONTRACTOR SHALL INSTALL BMPs PER THE ESC PLAN. ENTRANCE TO THE SITE (GRAVEL LAYDOWN YARD EXISTING), CONSTRUCTION ROUTES, AND AREAS DESIGNATED FOR EQUIPMENT OR OTHER USE AT THE SITE INCLUDING PARKING AND STOCKPILES. SOIL STOCKPILES SHALL BE PLACED IN

- THE AREAS SPECIFIED ON THE E&S PLAN SHEETS AND SIZED IN ACCORDANCE WITH MDEP STANDARDS SPECIFIED ON THE DETAIL SHEETS. TEMPORARY CONSTRUCTION ENTRANCE/EXIT PAD SHOULD HAVE A LENGTH OF 50 FEET AND WIDTH OF 12 FEET, 6-INCHES THICK WITH ANGULAR AGGREGATE (2-3 INCH DIAMETER) PLACED OVER A GEOTEXTILE FILTER. PERFORM MAINTENANCE AT EXISTING CULVERTS, REMOVING ACCUMULATED SEDIMENT IN EXISTING DITCHES AND DRAINAGE AS INDICATED ON EROSION AND SEDIMENT CONTROL PLANS.
- FOR ALL EXISTING ACCESS ROADS, MEASURES SHALL BE TAKEN TO MAINTAIN COVER ON EXISTING SURFACES, AND KEEPING PUBLIC ROADS CLEAR FROM DEBRIS.
- INSTALL PERIMETER BMPs (SILT FENCING) IN ACCORDANCE WITH INSTALLATION METHODS SPECIFIED ON PLAN AND DETAIL SHEETS AFTER THE CONSTRUCTION SITE IS ACCESSED, KEEPING ASSOCIATED CLEARING AND GRUBBING LIMITED TO ONLY THAT AMOUNT REQUIRED FOR INSTALLING PERIMETER BMPs.
- IMPLEMENT CONSTRUCTION ACTIVITIES ONLY AFTER ALL DOWNSLOPE E&S BMPs HAVE BEEN CONSTRUCTED AND STABILIZED. NO ADDITIONAL CLEARING AND GRADING OF UPLAND AREAS ARE PLANNED.
- INSTALL SILT FENCE WITHIN THE LOD PRIOR TO FILL. AFTER CONSTRUCTION IS COMPLETED, REGRADE THE EXISTING GRAVEL SURFACES, IF NEEDED.
- REMOVAL OF TEMPORARY SILT FENCING CAN OCCUR FOLLOWING SITE CLEANUP OF THE GRAVEL AND PAVED AREAS. STABILIZE ANY DISTURBANCES ASSOCIATED WITH THE REMOVAL OF THE BMPs, USING GRAVEL OR CRUSHED STONE.
- ANY WASTE OR EXCESS MATERIALS NOT SUITABLE FOR ON-SITE USAGE SHALL BE DISPOSED OF AT A MDEP APPROVED WASTE SITE. MATERIALS WILL BE REUSED OR RECYCLED IF POSSIBLE. ANY OFF-SITE STOCKPILE/SPOIL AREAS SHALL BE A STOCKPILE/SPOIL AREAS WITH AN APPROVED E&S.
- RESTORATION: AREAS WHERE SOIL IS TEMPORARILY DISTURBED DURING CONSTRUCTION WILL BE GRADED, STABILIZED, AND RESTORED IN ACCORDANCE WITH THE SITE-SPECIFIC EROSION AND SEDIMENTATION CONTROL PLAN. FOLLOWING CONSTRUCTION ACTIVITIES, TEMPORARILY DISTURBED AREAS WILL BE STABILIZED USING APPROPRIATE EROSION AND SEDIMENT CONTROL METHODS.
- THERE IS A DRAINAGE EASEMENT AGREEMENT WITH ABUTTERS FOR STORMWATER FLOW, ACCESS, AND MAINTENANCE.

- PREVENTION OF INVASIVES
 NO CULTIVARS, INVASIVE OR OTHER UNACCEPTABLE PLANT SPECIES MAY BE USED FOR ANY MITIGATION, BIOENGINEERING, VEGETATIVE BANK STABILIZATION OR ANY OTHER WORK AUTHORIZED BY THIS GP. HOWEVER, NON-NATIVE SPECIES AND CULTIVARS MAY BE USED WHEN IT IS APPROPRIATE AND SPECIFIED IN A WRITTEN VERIFICATION, SUCH AS USING SECALE CEREALE (ANNUAL RYE) TO QUICKLY STABILIZE A SITE. ALL PONS SHOULD EXPLAIN THE REASON FOR USING NON-NATIVE SPECIES OR CULTIVARS.
- CONSTRUCTION MATERIALS INSPECTION:
 CONSTRUCTION MATERIAL SUCH AS SEED MIXES, MULCH, TOPSOIL, FILL, SAND, GRAVEL, CRUSHED STONE, AND ROCK BROUGHT TO THE SITE FROM AN OUTSIDE SOURCE WILL BE FREE OF INVASIVE PLANT MATERIALS. IN ADDITION, DURING ALL ASPECTS OF CONSTRUCTION, SOIL AND/OR SPOIL MATERIALS WILL ONLY BE TEMPORARILY STOCKPILED (I.E. WILL BE SPREAD AND GRADED TO MATCH ORIGINAL CONTOURS AT THE EARLIEST PRACTICABLE TIME FOLLOWING CONSTRUCTION ACTIVITIES). PROPER METHODS FOR SEGREGATING STOCKPILED AND SPOIL MATERIAL WILL BE IMPLEMENTED, AND EXCAVATED SOIL WILL BE REUSED TO THE MAXIMUM EXTENT POSSIBLE ON THE SITE THAT IT WAS EXCAVATED FROM, AS A MEANS TO LIMIT OPPORTUNITIES FOR PROLIFERATION OF NON-NATIVE FLORA AND OTHER INVASIVE SPECIES. APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES, SUCH AS SITE STABILIZATION VIA MULCHING AND RESEEDING AREAS OF EXPOSED SOIL AS SOON AS PRACTICABLE, WILL BE IMPLEMENTED.
- CONSTRUCTION EQUIPMENT SANITATION: THE INTRODUCTION OF NON-NATIVE INVASIVE PLANT SPECIES WILL BE CONTROLLED BY ASSURING THAT ALL CONSTRUCTION EQUIPMENT (E.G., HEAVY MACHINERY, AND CONSTRUCTION MATS) IS CLEAN UPON ARRIVAL ON SITE, AS WELL AS CLEAN PRIOR TO LEAVING THE SITE. IN ORDER TO PREVENT THE SPREAD OF INVASIVE WEEDS THAT COULD BE TRANSPORTED FROM RELATIVELY DISTANT LOCATIONS, EFFECTIVE WASHING OF EQUIPMENT PRIOR TO ARRIVAL AT THE SITE WILL BE DONE WITH COMPRESSED AIR, HIGH-PRESSURE WATER, OR A HIGH-PRESSURE STEAM CLEANER ON A HARD SURFACE WITH CONTROLLED DRAINAGE. ADDITIONALLY, ANY EQUIPMENT UTILIZED IN AREAS WITH AN ABUNDANCE OF INVASIVE SPECIES WILL BE CLEANED PRIOR TO MOVING TO ANOTHER SITE. THE INTENT IS THAT EQUIPMENT SHOULD ARRIVE AT THE SITE CLEAN AND LEAVE THE SITE CLEAN. THE LOCATION OF ANY PROJECT EQUIPMENT CLEANING STATIONS WILL BE IDENTIFIED BY THE CONTRACTOR. IF AN EQUIPMENT CLEANING STATION IS ESTABLISHED ON THE SITE, IT SHALL BE LOCATED SUCH THAT ANY INVASIVE SPECIES SEEDS AND OTHER VIABLE PLANT PARTS CANNOT ESCAPE IN RUNOFF OR THROUGH OTHER MEANS.
- INVASIVE SPECIES CONTROL AND REMOVAL: IF INVASIVE SPECIES ARE OBSERVED AT THE SITE FOLLOWING CONSTRUCTION ACTIVITIES, THEN APPROPRIATE TREATMENT, CONTROL, AND REMOVAL METHODS WILL BE DEVELOPED THROUGH CONSULTATION WITH APPROPRIATE STATE AND FEDERAL AGENCIES.

PROJECT MANAGER	ANDREW GURSKI
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

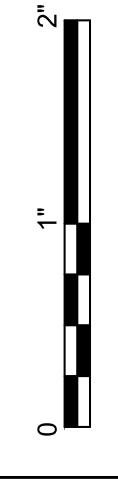
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07/14/2023			



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IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

EROSION CONTROL PLAN

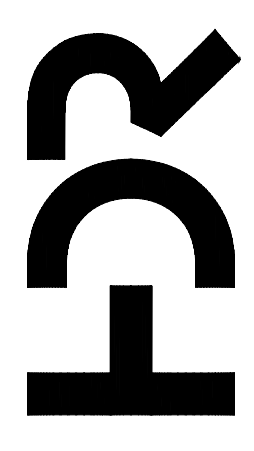


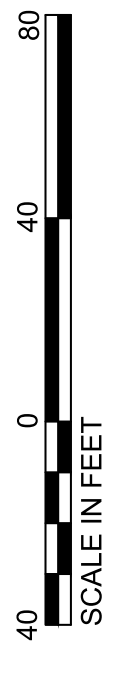
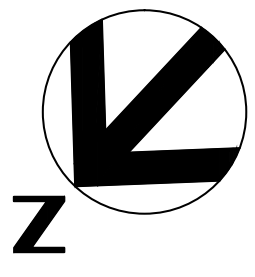
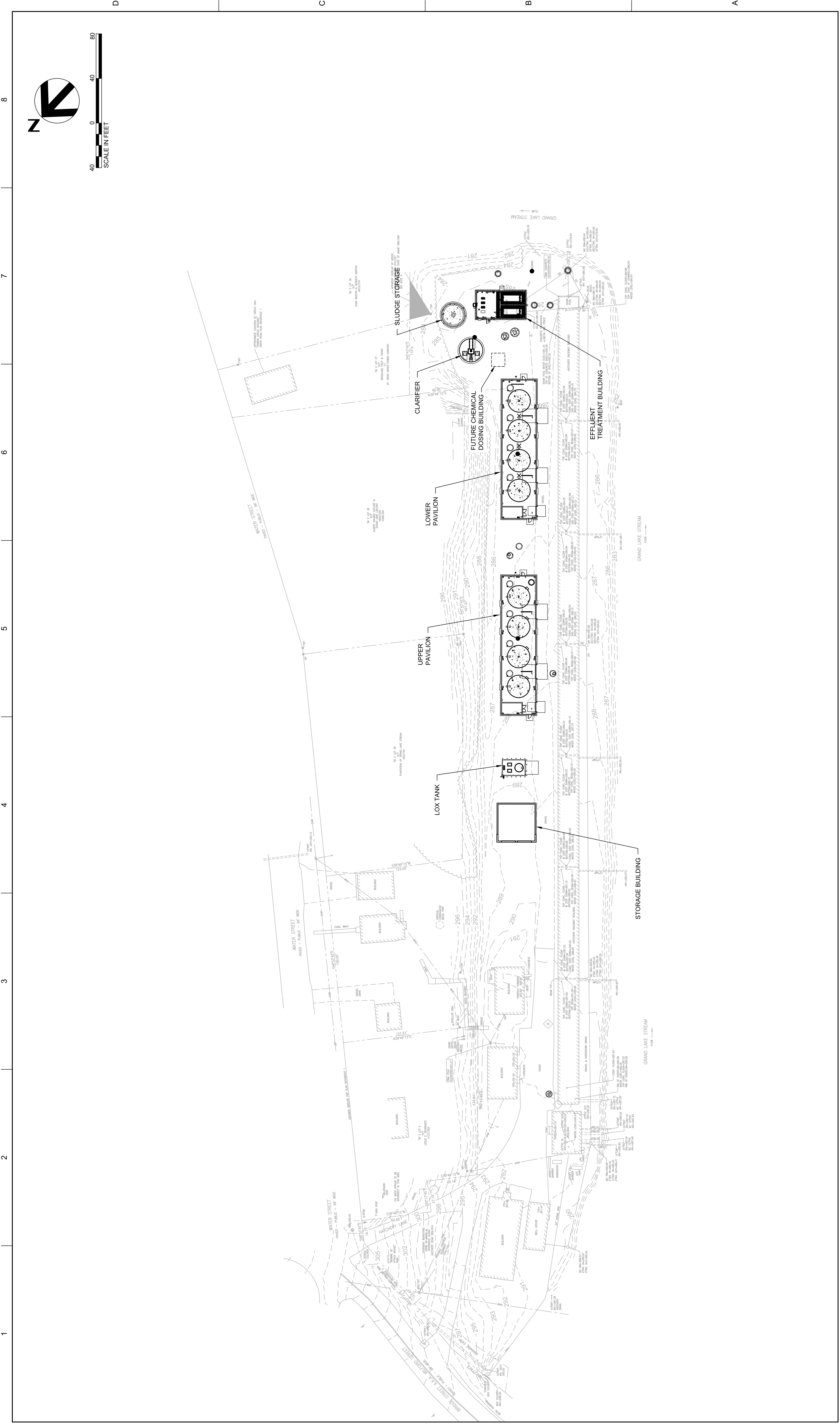
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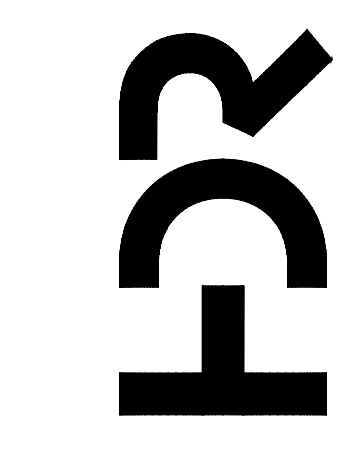
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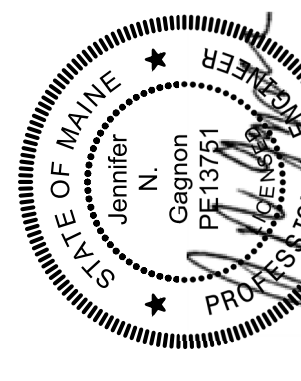
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**IMPROVEMENTS AT GRAND
LAKE STREAM STATE FISH
HATCHERY**

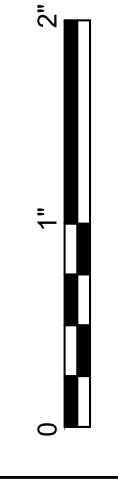
OVERALL SITE PLAN

PROJECT MANAGER	ANDREW GURSKI
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PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

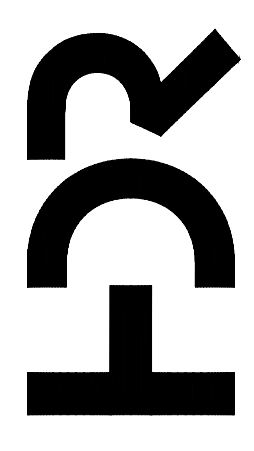
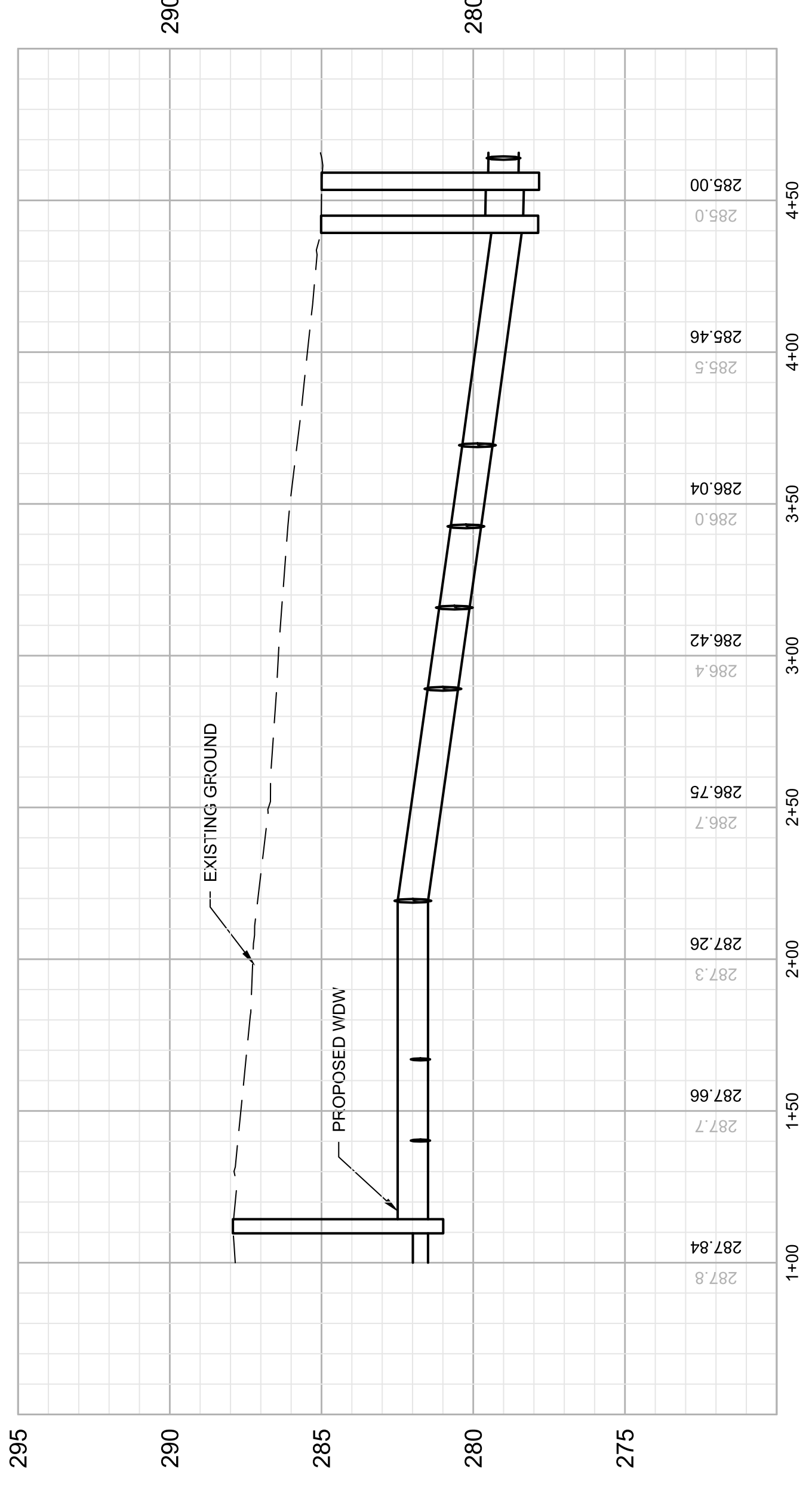
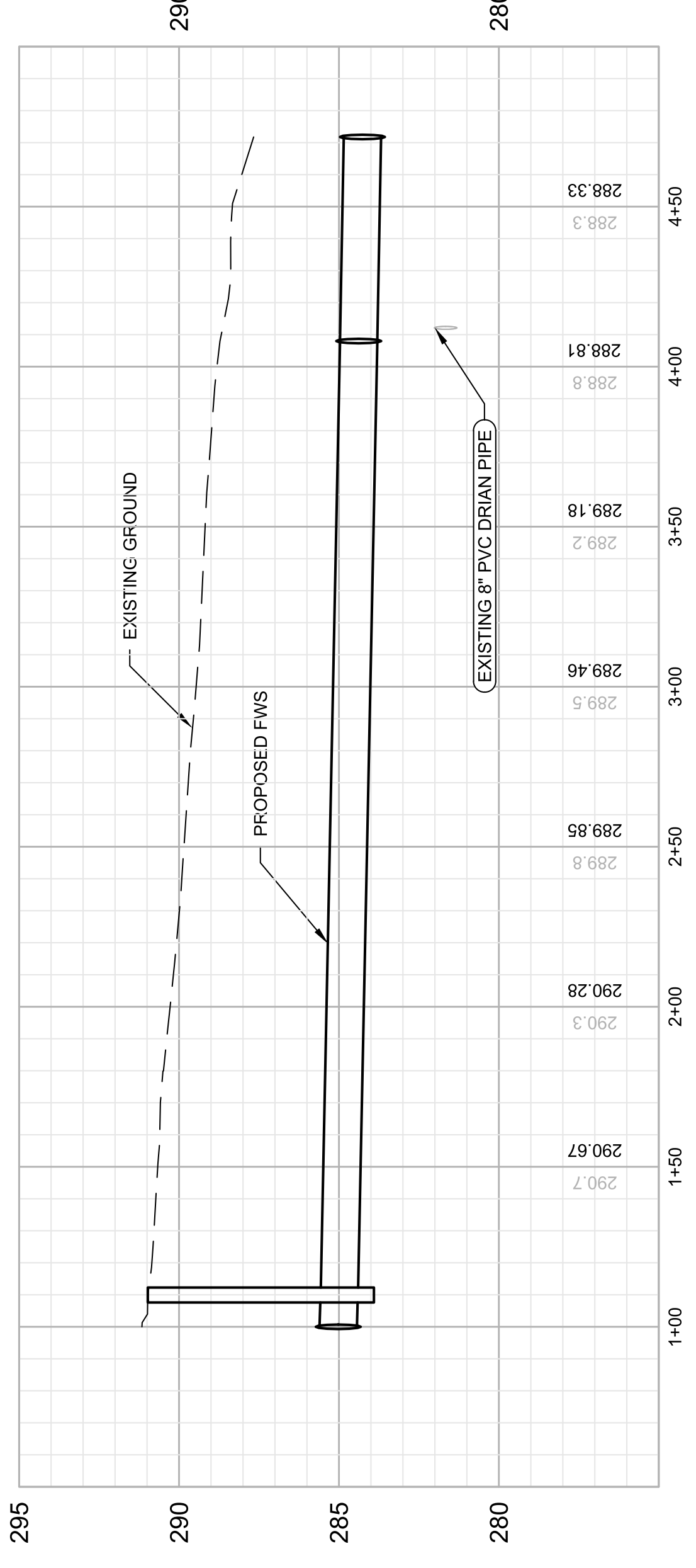
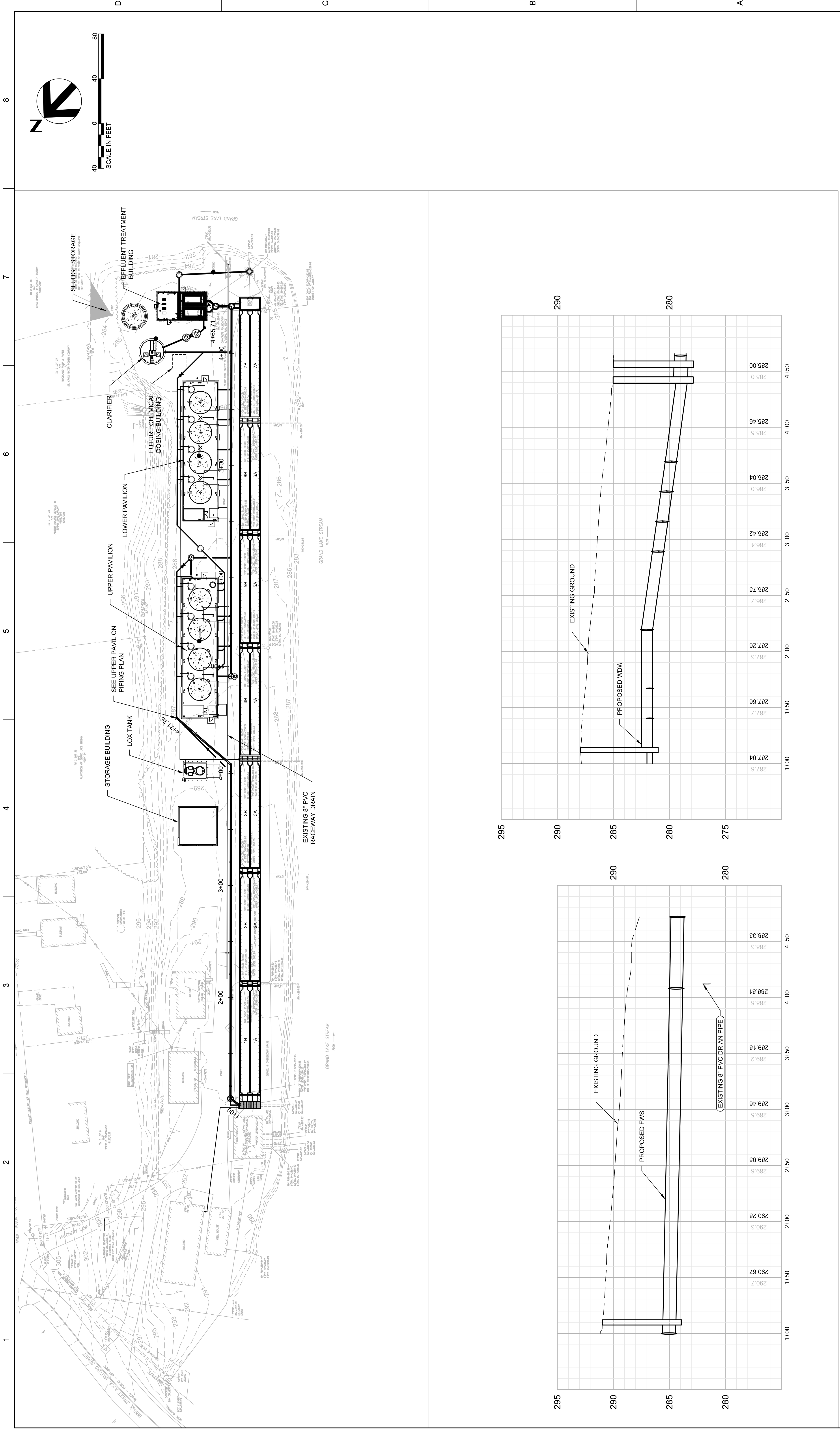


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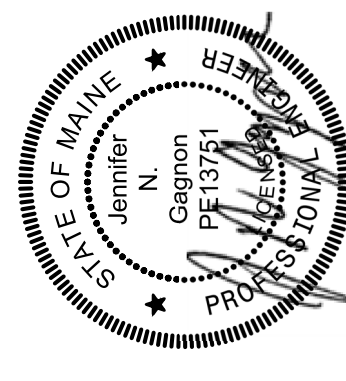
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SHEET 01C-111



PROJECT MANAGER ANDREW GURSKI
 CIVIL J. GAGNON
 STRUCTURAL B. BRADLEY
 ARCHITECTURAL M. BASKIN
 PROCESS J. CHANDLER
 MECHANICAL J. CHANDLER
 ELECTRICAL J. KANER



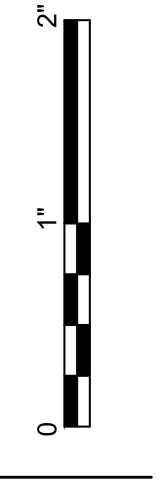
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IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

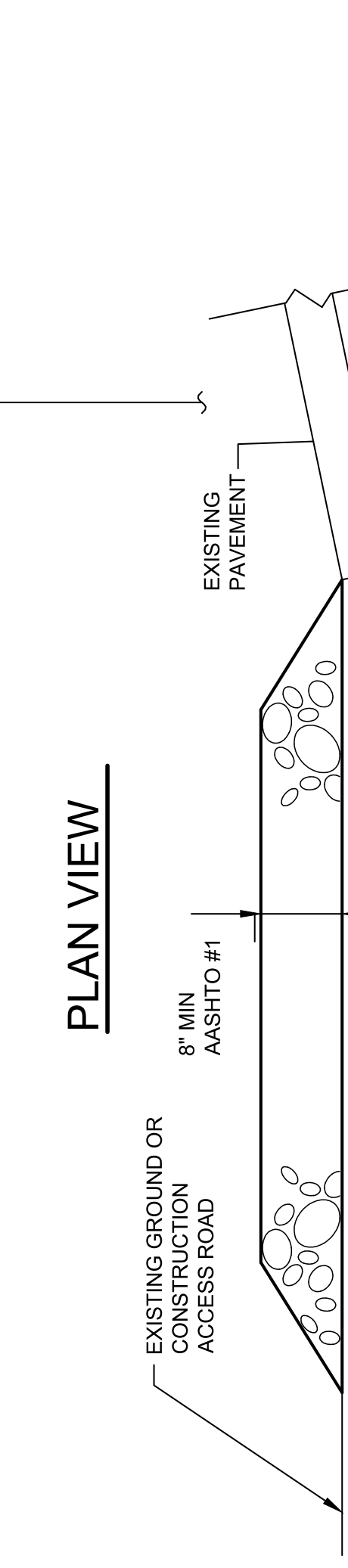
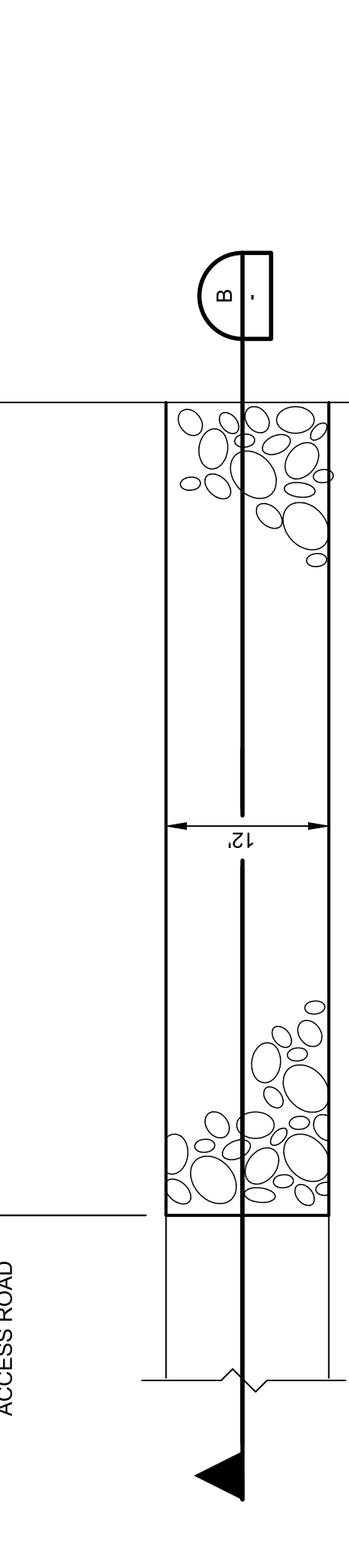
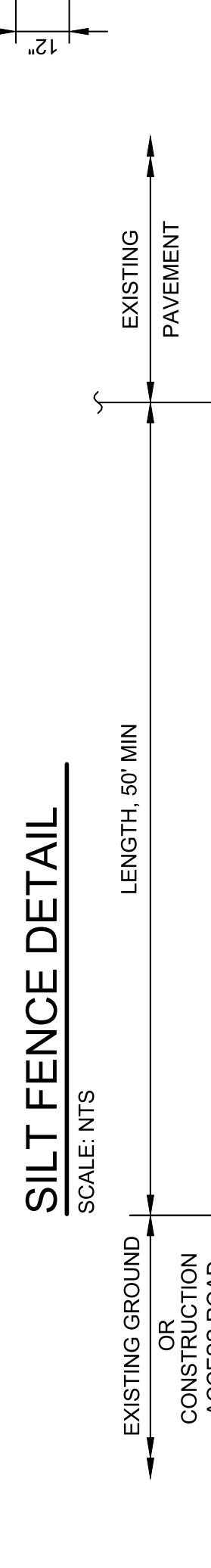
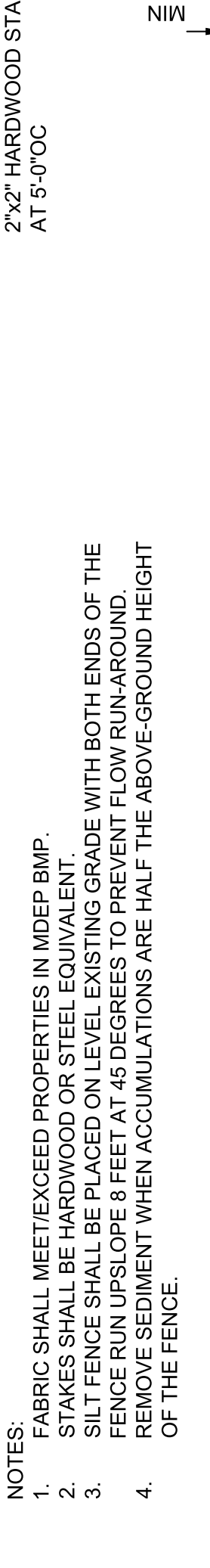
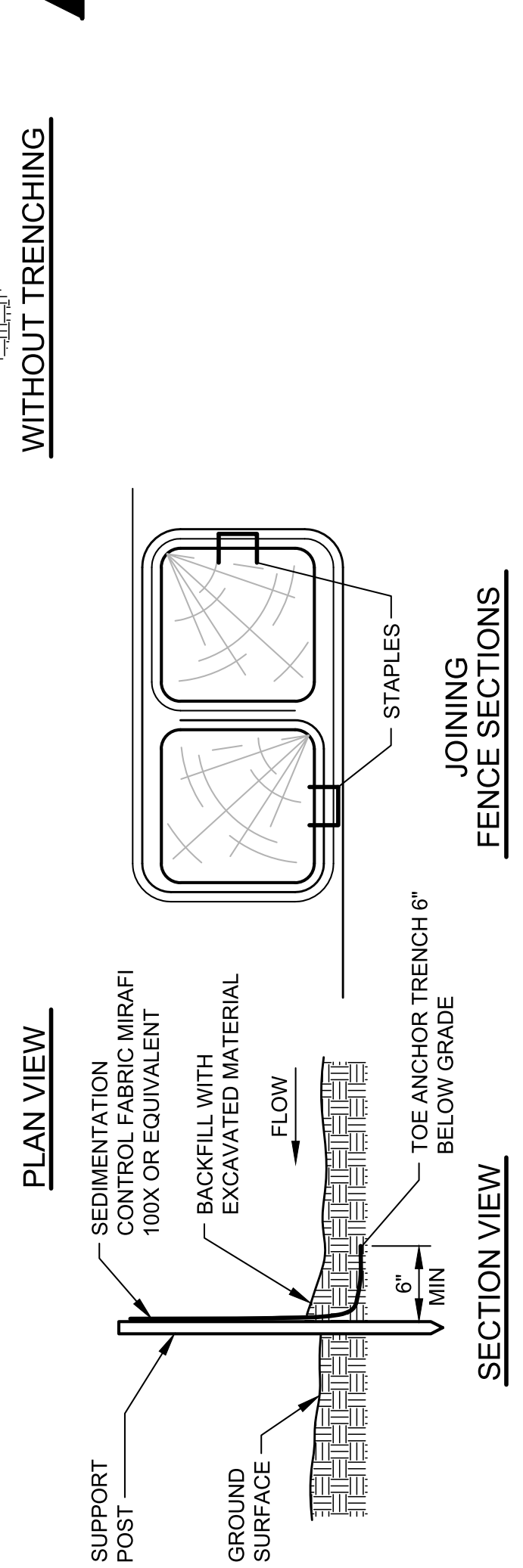
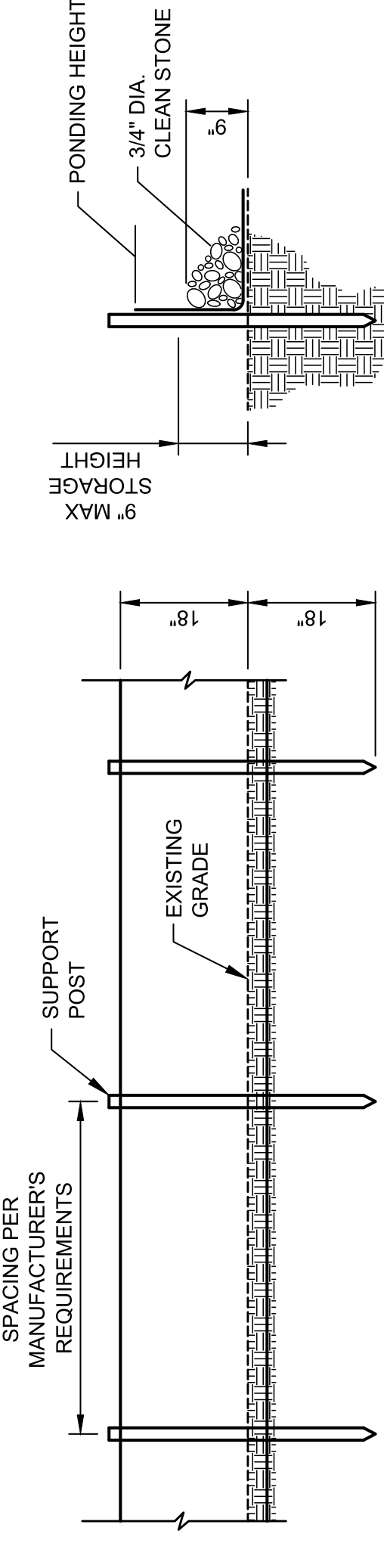
PLAN AND PROFILE - FWS & WDW

ISSUE	DATE	ISSUED FOR BID	DESCRIPTION
07/14/2023			

PROJECT NUMBER 10357686



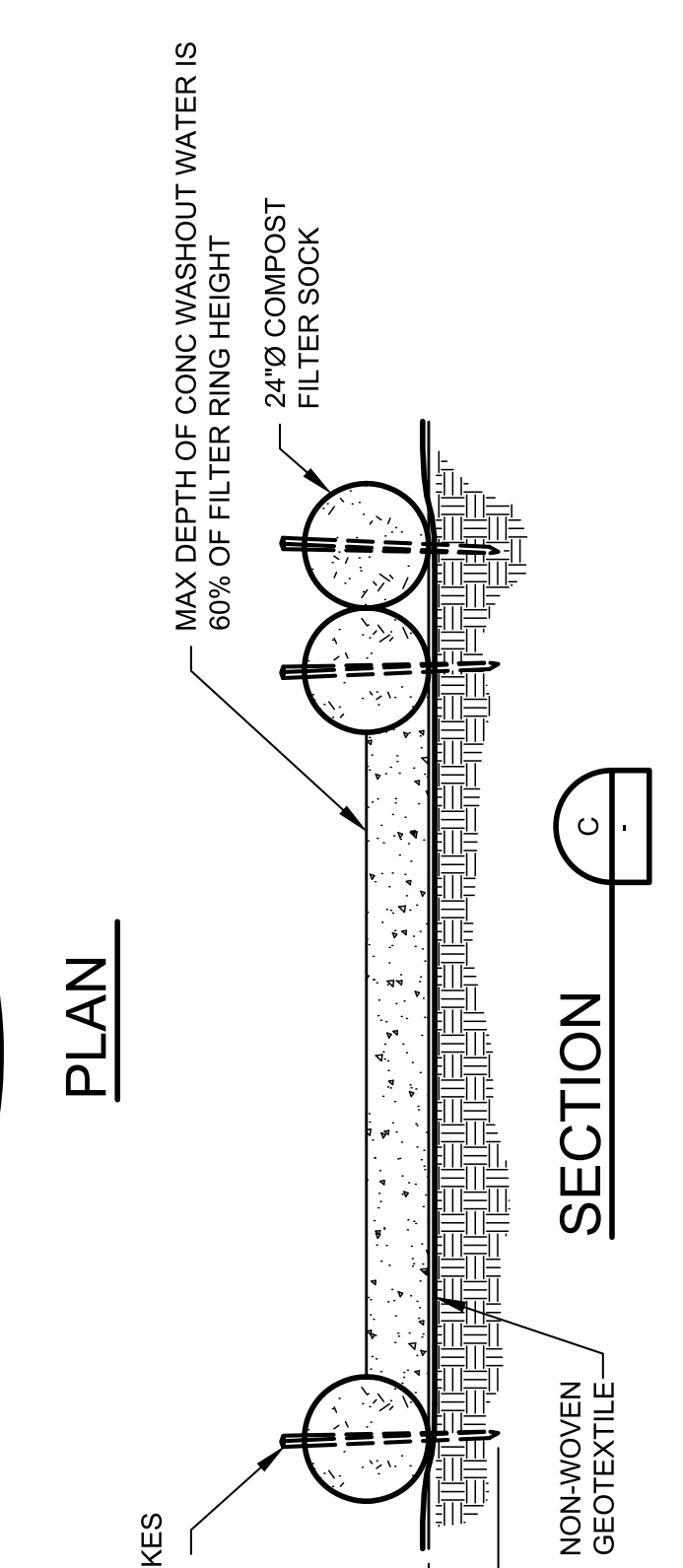
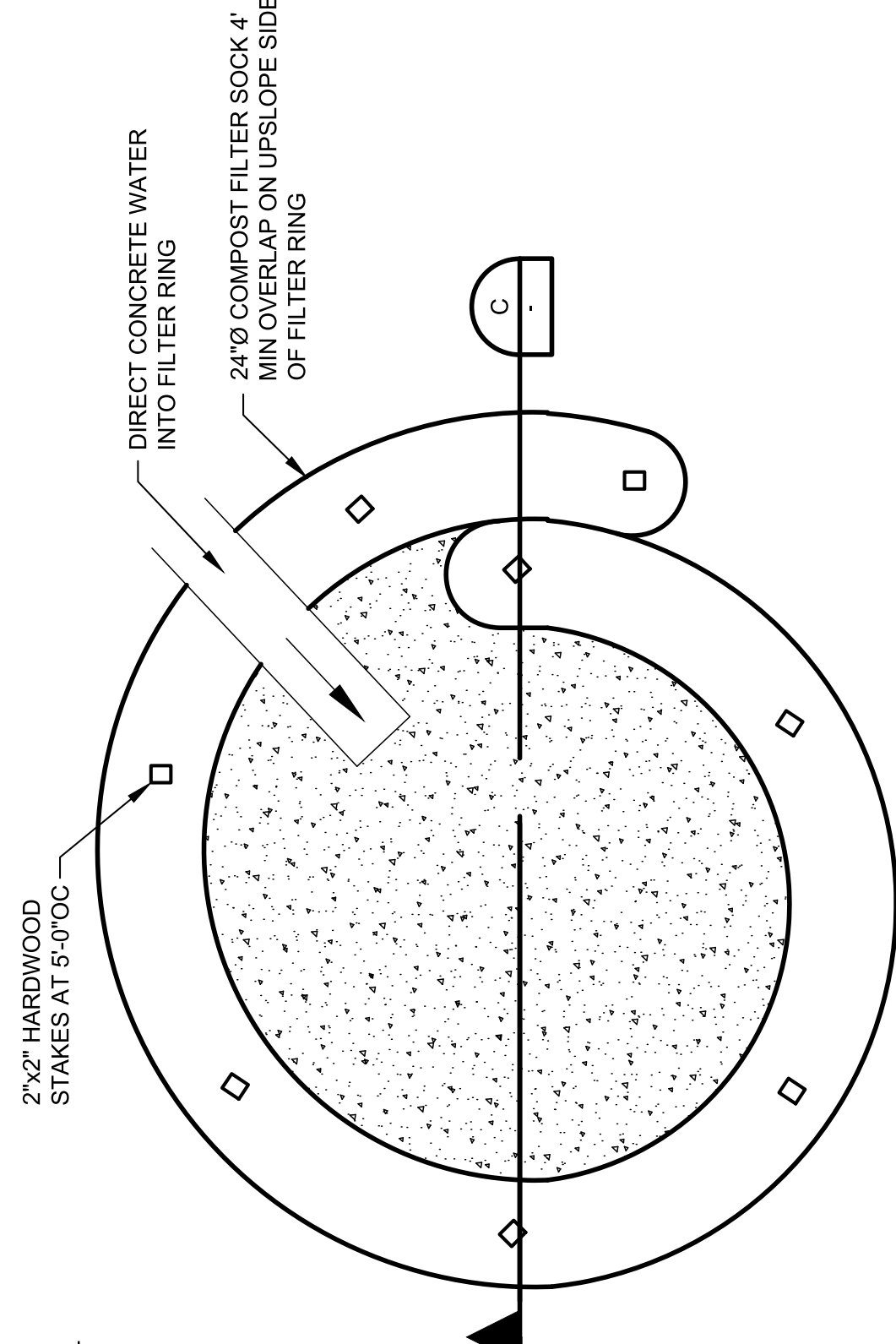
SCALE 1" = 40'
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 SHEET 01C-201



- NOTES:**
1. AGGREGATE: AGGREGATE SUBBASE
 2. AGGREGATE THICKNESS: NOT LESS THAN 6 INCHES OF AASHTO #1
 3. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
 4. LENGTH: AS REQUIRED, BUT NOT LESS THAN 50 FEET. GEOTEXTILE: MIRAFI 600X, OR EQUIVALENT TO BE PLACED OVER THE ENTIRE AREA TO BE COVERED WITH AGGREGATE. PIPING OF SURFACE WATER UNDER ENTRANCE SHALL BE PROVIDED AS REQUIRED.
 5. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO EXISTING DRIVES OR PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS. ALL SEDIMENT SHALL BE REMOVED IMMEDIATELY.
 6. A STOCKPILE OF AASHTO #1 STONE SHALL BE MAINTAINED NEARBY FOR USE
 7. IF EXCESS SEDIMENT IS BEING DEPOSITED ON THE ACCESS ROAD, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE OR ADD WASH RACK.

ROCK CONSTRUCTION ENTRANCE

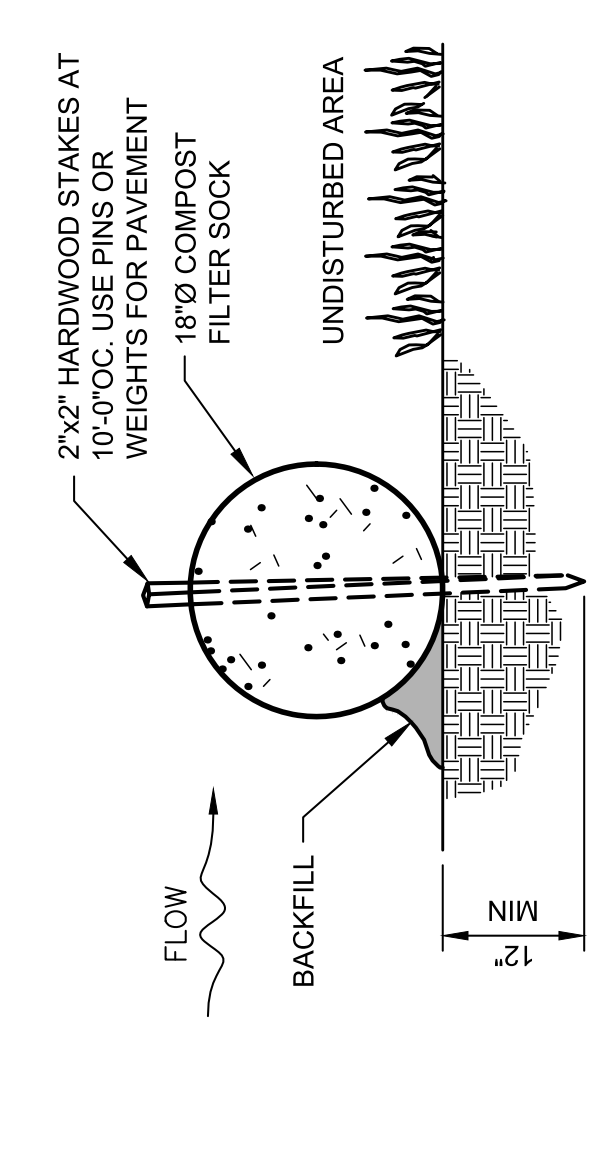
SCALE: NTS



TYPICAL COMPOST SOCK CONCRETE WASHOUT RING

SCALE: NTS

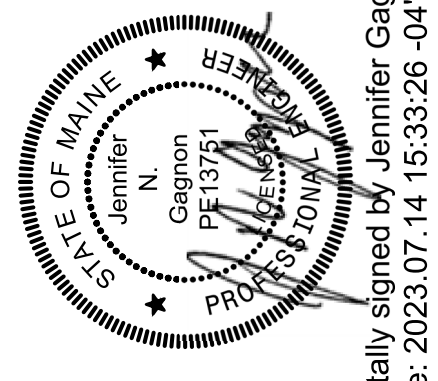
- NOTES:**
1. IF NEEDED, INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
 2. NON-WOVEN GEOTEXTILE SHALL MEET THE FOLLOWING EQUIVALENT REQUIREMENTS:
PHYSICAL PROPERTY (TEST METHOD) WITH MINIMUM PERMISSIBLE VALUE
TENSILE STRENGTH (ASTM D 4833) - 50 POUNDS
GRAB TENSILE ELONGATION (ASTM D 4833) - 50%
TRAPEZOID TEAR STRENGTH (ASTM D 4533) - 50 POUNDS
CBR PUNCTURE STRENGTH (ASTM D 6241) - 310 POUNDS
APPARENT OPENING SIZE (ASTM D 4751) - 0.212 MM (US #70 SIEVE)
UV RESISTANCE (600 HOURS) (ASTM D 4385) - 70% STRENGTH RETENTION
 3. 18"x9" FILTER SOCK MAY BE STACKED ONTO DOUBLE 24"x9" SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.



- NOTES:**
1. MATERIAL TO BE MULTI-FILAMENT POLYPROPYLENE
 2. COMPOST FILTER SOCK SHALL BE PLACED ALONG THE BOUNDARY OF ANY TEMPORARY STOCKPILES A MINIMUM OF 4 DAYS AFTER CESSATION OF ACTIVITY.
 3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
 4. FILTER SOCKS SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVE-GROUND HEIGHT OF THE SOCK, AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
 5. DAMAGED SOCKS SHALL BE REPAIRED WEEKLY AND AFTER EACH RUNOFF EVENT.
 6. SOCKS SHALL BE REPLACED WITHIN 24 HOURS OF INSPECTION.
 7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES AND SOCK SHALL BE REMOVED.

COMPOST FILTER SOCK

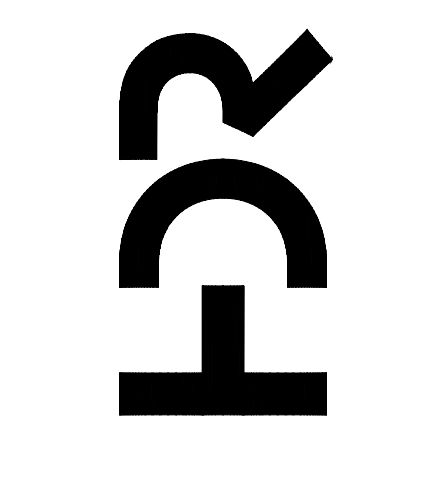
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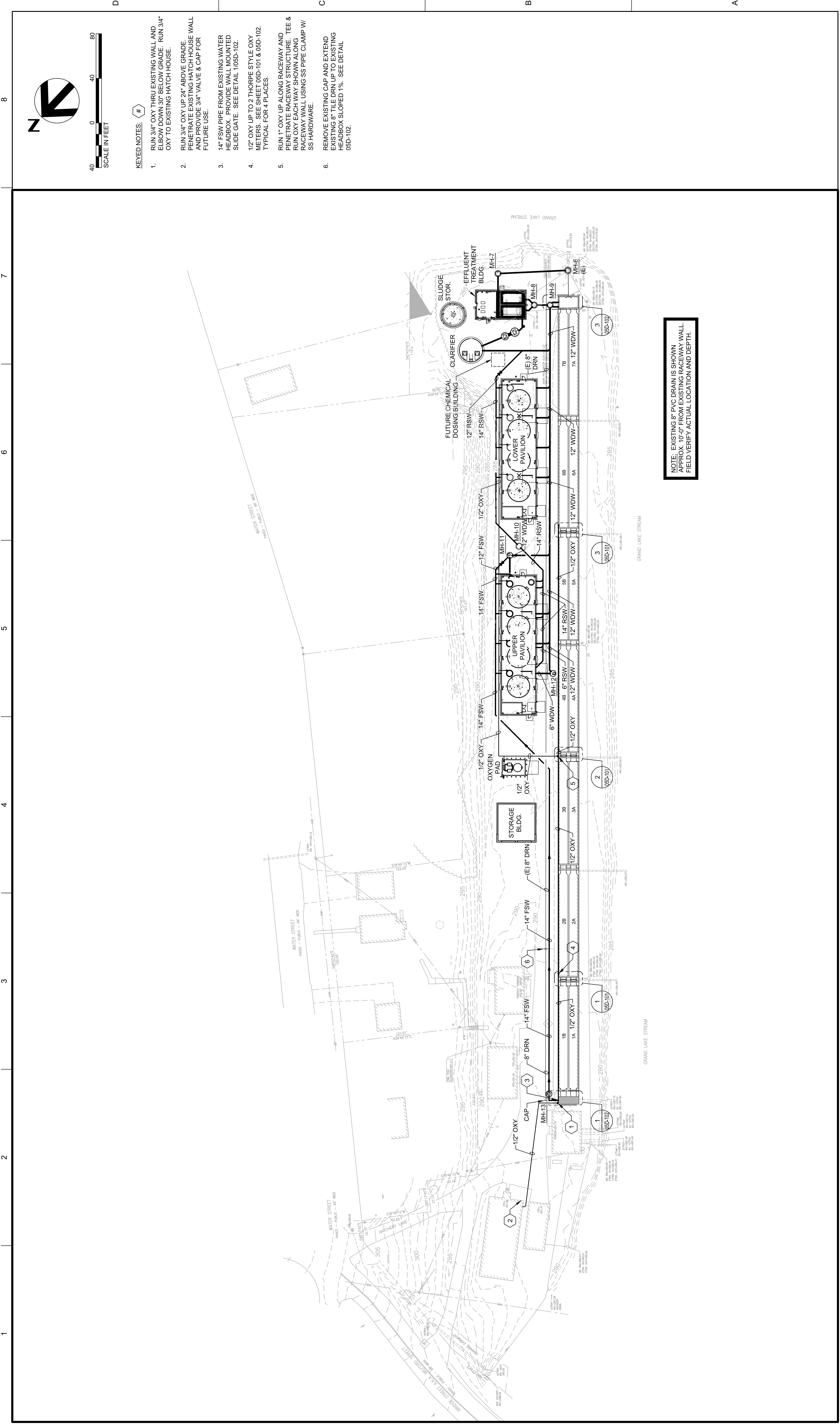
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Date: 2023.07.14 15:33:26 -0400

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

ISSUE	DATE	ISSUED FOR BID	DESCRIPTION

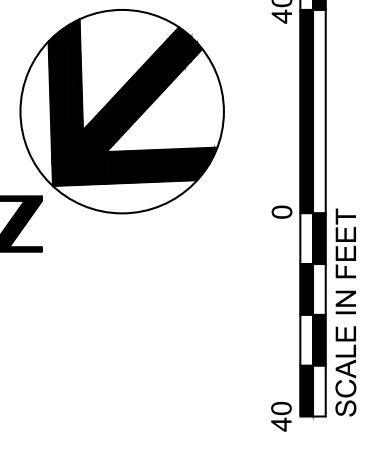


IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY



NOTE: EXISTING 8\"/>

- KEYED NOTES:** (#)
1. RUN 3/4\"/>
 2. RUN 3/4\"/>
 3. 14\"/>
 4. 1/2\"/>
 5. RUN 1\"/>
 6. REMOVE EXISTING CAP AND EXTEND EXISTING 8\"/>



D
C
B
A

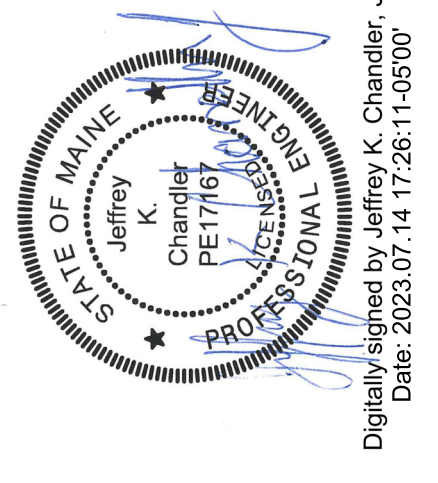
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OVERALL SITE PIPING PLAN

FILENAME: 01D-101.DWG
SCALE: 1" = 1'

SHEET: 01D-101

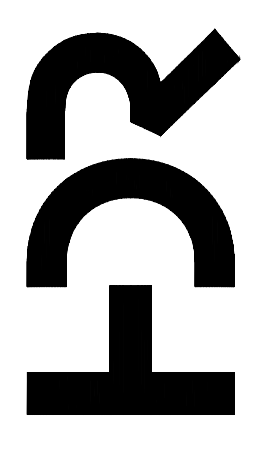
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY



Digitally signed by Jeffrey K. Chandler, Jr.
Date: 2023.07.14 17:26:11-05'00'

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

ISSUE	DATE	ISSUED FOR BID	DESCRIPTION
07/14/2023			



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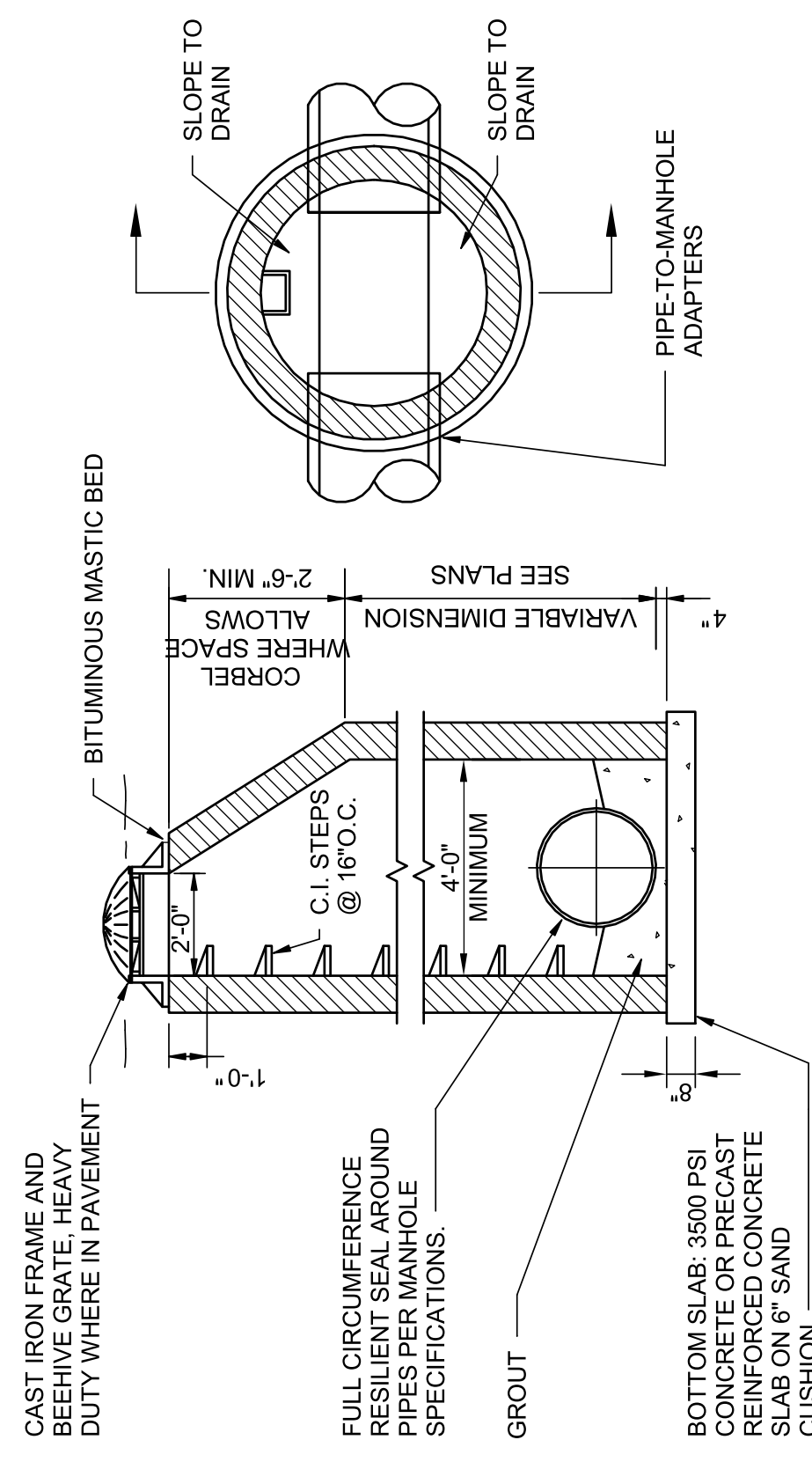
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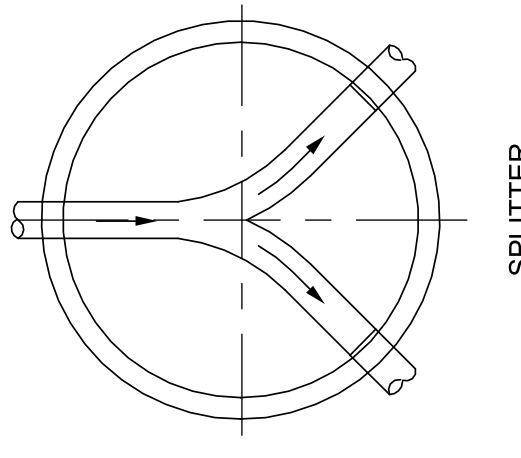
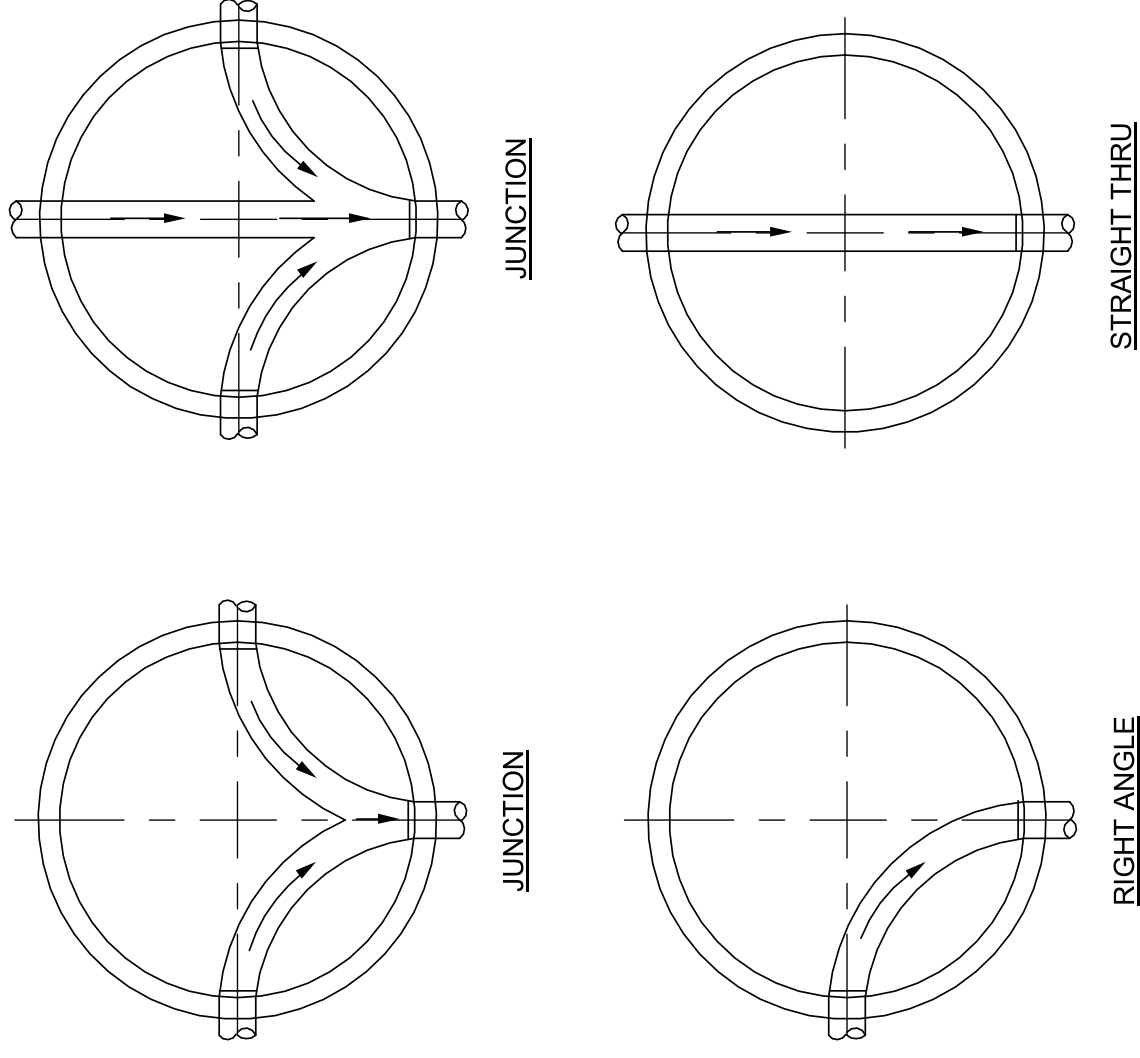
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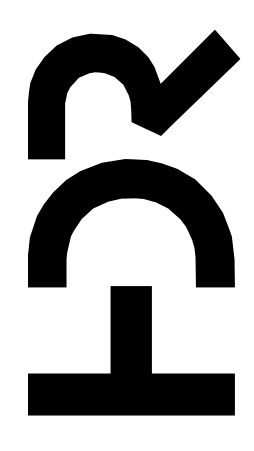
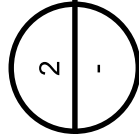
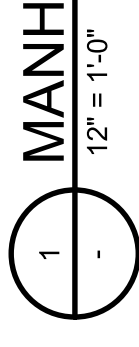
MANHOLE NOTES:

1. CORBEL TO BE REPLACED WITH REINFORCED FLAT TOP, WHERE REQUIRED FOR CLEARANCE.
2. STEPS REQUIRED, UNLESS DELETED BY SPECIAL PROVISIONS.
3. UNLESS NOTED OTHERWISE, PROVIDE GROUT (SO THAT RESULTING TROUGH DIRECTS WATER FROM ALL PIPES) AT LEAST UP TO THE SPRING LINE OF THE DEEPEST PIPE. GROUT TROUGHS IN THE SHAPE OF CURVES, CROSSES, CONVERGING & DIVERGING WYES AND TEES. TROUGH TO BE 1/2" DEEP FROM THE BOTTOM TROUGHS TO THE O.D. OF PIPE-TO-MANHOLE ADAPTERS.



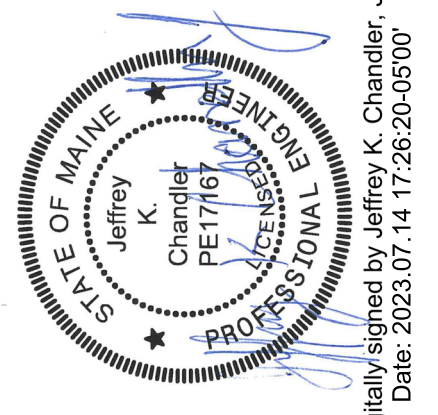
NOTES:

1. DEPTH OF CHANNELS TO BE 1/2 I.D. OF PIPE.
2. PROVIDE SMOOTH FLOW, ACROSS BOTTOM OF MANHOLE.
3. FLOW CHANNEL SHALL HAVE TROWELED FINISH.



ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	

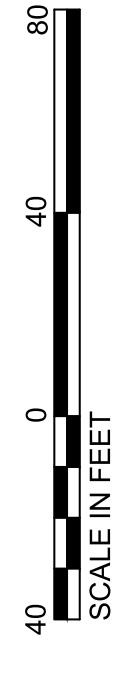
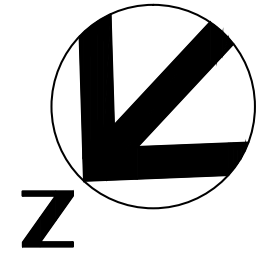
PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



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Date: 2023.07.14 17:26:20-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

STANDARD PIPING DETAILS



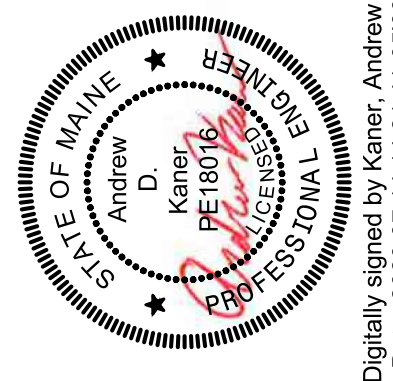
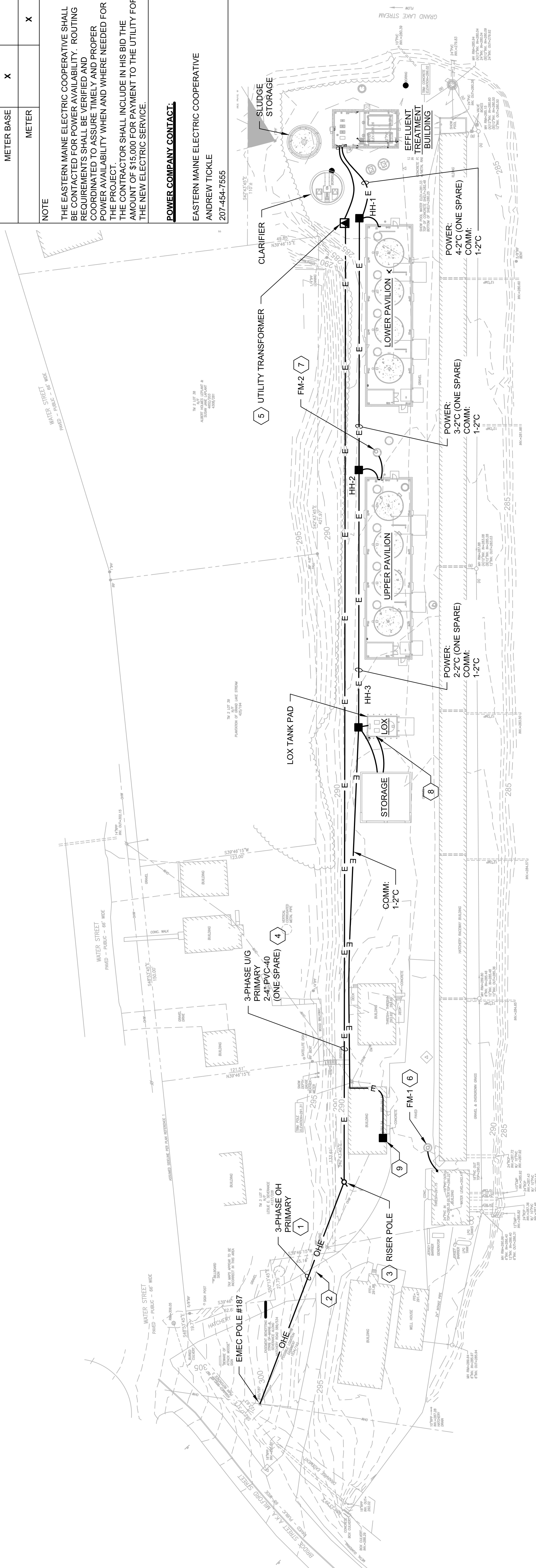
INCOMING ELECTRIC SERVICE DIVISION OF RESPONSIBILITY	
	UTILITY COMPANY
PRIMARY CONDUIT	X
PRIMARY CONDUCTORS	X
TRENCHING FOR PRIMARY ELECTRIC	X
PAD MOUNTED TRANSFORMER	X
TRANSFORMER PAD/VAULT	X
BOLLARDS	X
TRANSFORMER CONNECTIONS	X
SECONDARY CONDUIT	X
SECONDARY CONDUCTORS	X
METER BASE	X
METER	X

NOTE
THE EASTERN MAINE ELECTRIC COOPERATIVE SHALL BE CONTACTED FOR POWER AVAILABILITY. ROUTING REQUIREMENTS SHALL BE VERIFIED AND COORDINATED TO ASSURE TIMELY AND PROPER POWER AVAILABILITY WHEN AND WHERE NEEDED FOR THE PROJECT.
THE CONTRACTOR SHALL INCLUDE IN HIS BID THE AMOUNT OF \$15,000 FOR PAYMENT TO THE UTILITY FOR THE NEW ELECTRIC SERVICE.

POWER COMPANY CONTACT:
EASTERN MAINE ELECTRIC COOPERATIVE
ANDREW TICKLE
207-454-7555

- GENERAL NOTES:**
- REFER TO 00E601 FOR CONDUIT AND WIRE DETAILS.
 - UNDERGROUND CONDUITS SHALL BE ROUTED IN PVC CONDUIT BURIED IN EARTH. REFER TO 00E601 FOR TRENCH SECTION DETAILS.
 - COORDINATE SITE DUCT BANK ROUTINGS WITH SITE UTILITIES (IE. PIPING) AND PHYSICAL SITE TO AVOID CONFLICT.
 - SPARE CONDUITS SHALL BE EQUIPPED WITH PULL CORD AND CAPPED AT EACH END. LABEL EACH END OF CONDUIT WITH SOURCE.
 - PROVIDE SEPARATE HANDHOLES FOR POWER AND COMM. ONE SHOWN FOR CLARITY.

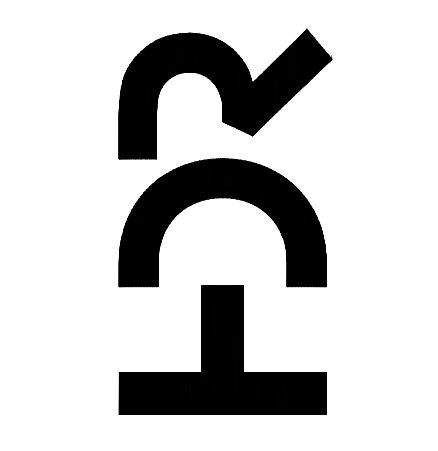
- KEYED NOTES: (#)**
- NEW 3-PHASE OH SPAN BY UTILITY COMPANY.
 - EXISTING SINGLE-PHASE LINE TO BE REPLACED WITH 3-PHASE LINE BY UTILITY COMPANY. EXISTING SERVICE TRANSFORMER TO BE RE-LOCATED TO NEW RISER POLE.
 - NEW RISER POLE BY UTILITY COMPANY. INSTALL CONDUIT RISER FOR PRIMARY CABLE PER UTILITY COMPANY REQUIREMENTS. COORDINATE EXACT POLE LOCATION AND REQUIRED TREE BRANCH REMOVAL WITH OWNER AND UTILITY.
 - INSTALL PRIMARY CONDUIT PER UTILITY COMPANY REQUIREMENTS. PROVIDE 12" DEEP WITH SAND BEDDING AND SCREENED BACKFILL. PROVIDE CABLE PULL STRINGS.
 - INSTALL TRANSFORMER VAULT PER UTILITY COMPANY REQUIREMENTS INCLUDING GROUND RING. CABLE TERMINATIONS ARE BY UTILITY.
 - INSTALL FLOW METER FM-1 REMOTE DISPLAY IN EXISTING FILTER BUILDING. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120V, 20A CIRCUIT FROM EXISTING BUILDING PANEL. PROVIDE 1/2" WITH METER SIGNAL WIRE FROM SENSOR TO REMOTE DISPLAY.
 - INSTALL FLOW METER FM-2 REMOTE DISPLAY IN UPPER PAVILION. PROVIDE 120V, 20A CIRCUIT FROM PANEL LP2. PROVIDE 1/2" WITH METER SIGNAL WIRE FROM SENSOR TO REMOTE DISPLAY.
 - PROVIDE TWO 3/4" FROM STORAGE BUILDING PANEL LP1 TO OXYGEN TANK FOR LIGHT AND RECEPTACLE. SEE 05E-101 FOR DETAILS.
 - CONNECT ALARM SIGNAL CABLES TO EXISTING SECURITY PANEL IN HATCHERY BUILDING. FIELD-VERIFY LOCATION AND COORDINATE REQUIREMENTS WITH OWNER AND SECURITY COMPANY PRIOR TO INSTALLATION. REFER TO 00E-502 FOR ADDITIONAL DETAILS.



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Date: 2023.07.14 14:21:41-05'00'

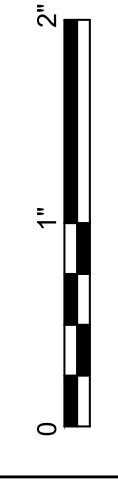
PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	B. MURRAY
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

ISSUE	DATE	ISSUED FOR BID	DESCRIPTION
07/14/2023			



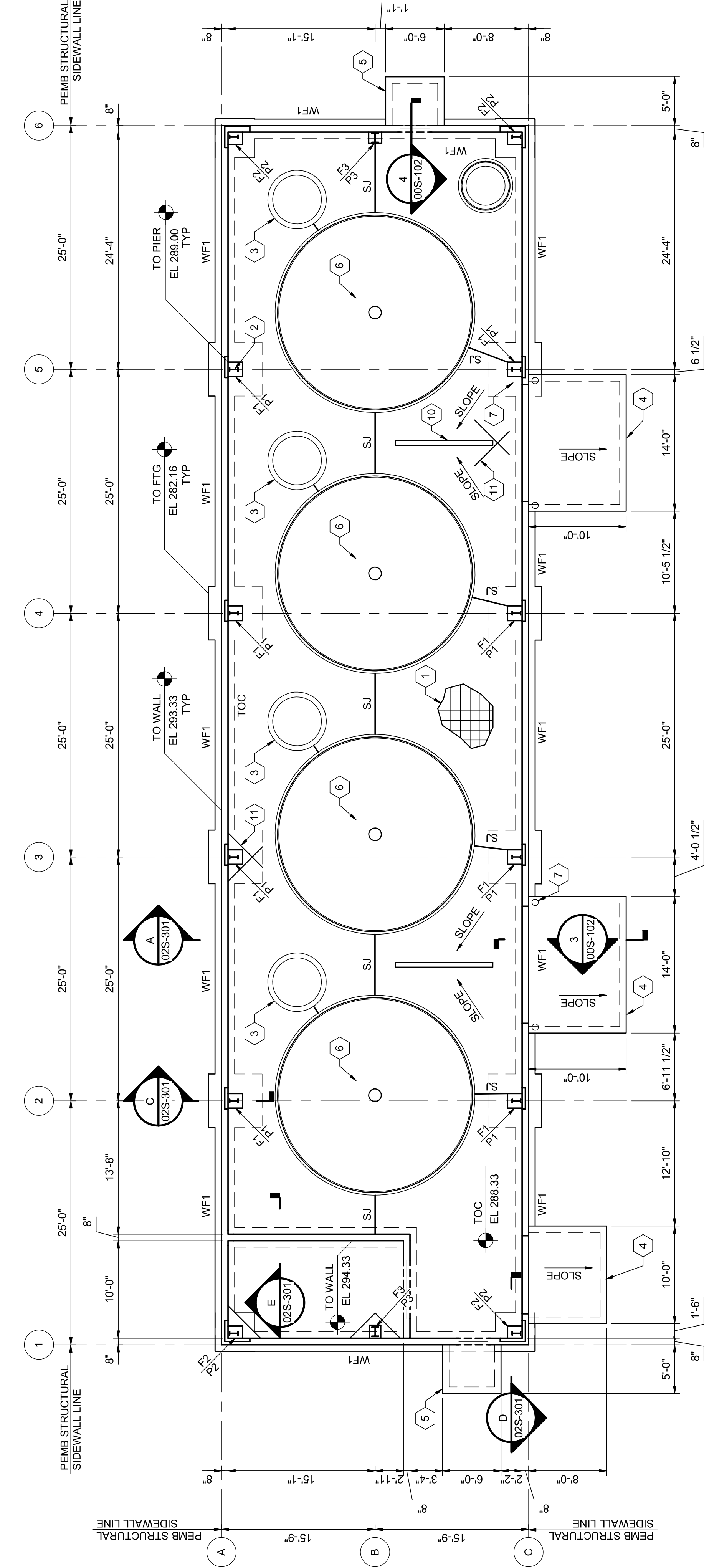
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

OVERALL ELECTRICAL SITE PLAN



SCALE 1"=40'
FILENAME 10357686-01E-101.DWG
SHEET 01E-101

1 2 3 4 5 6 7 8



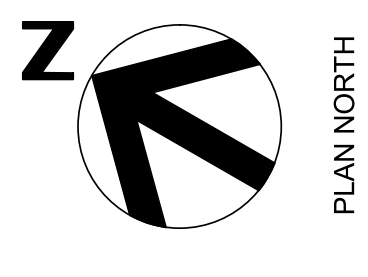
FOUNDATION PLAN
1/8" = 1'-0"

TYPE	SIZE	REINFORCEMENT	T.O. FOOTING ELEVATION	T.O. PIER ELEVATION	REMARKS
F1	5'-6"x5'-6"x1'-2"	(7)#6 EACH WAY BOTTOM	282.16	289'	SEE DETAIL 1/02S-302
F2	4'-0"x4'-0"x1'-2"	(5)#6 EACH WAY BOTTOM	282.16	289'	SEE DETAIL 2/02S-302
F3	3'-0"x3'-0"x1'-2"	(4)#6 EACH WAY TOP & BOTTOM	282.16	289'	SEE DETAIL 3/02S-302
WF1	2'-0"x1'-0"x CONT.	(3)#5 CONTINUOUS	282.16	NA	SEE DETAIL 1/02S-302

FOOTING SCHEDULE
1 NOT TO SCALE

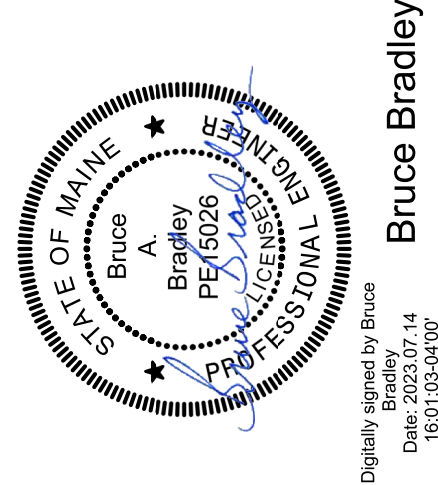
GENERAL NOTES:

- SEE SHEET 00S-001 FOR GENERAL STRUCTURAL NOTES.
 - SEE 00S-100 SERIES SHEETS FOR TYPICAL STRUCTURAL DETAILS.
 - COLUMNS BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
 - REFER TO ARCHITECTURAL PROCESS, MECHANICAL PLUMBING, ELECTRICAL, AND DRAWINGS OF OTHER TRADES FOR LOCATIONS OF OPENINGS, DEPRESSIONS, FLOOR SLOPES AND DRAINS.
- KEYNOTES:** (#)
- 4" CONCRETE SLAB WITH #6@12" OC. EW MID-DEPTH IN SLAB OVER COMPACTED CLEAN FREE-DRAINING GRANULAR FILL.
 - COLUMNS BY METAL BUILDING MANUFACTURER (MBM).
 - PRECAST WATER CONTROL STRUCTURE. SEE PLUMBING DRAWINGS.
 - CONCRETE APPROACH SLAB AT OVERHEAD DOOR. SEE DETAIL 3/00S-102.
 - CONCRETE STOOP. SEE DETAIL 4/00S-102 STOOP GRADE BEAM SHALL BE TIED INTO PERIMETER GRADE BEAM.
 - SEE SHEET 03S-103 FOR TANK SLAB.
 - 8" DIAMETER SCHEDULE 40 STEEL PIPE ROLLARD FILLED WITH CONCRETE (PAIN YELLOW). TYPICAL OF 8. SEE DETAIL 5/02S-302.
 - PROVIDE 2'-0"x2'-0" #4 BENT BAR CAST MID-DEPTH OF SLAB AT ALL LOCATIONS WHERE SLAB EXTENDS OVER FOUNDATION WALL. SEE DETAILS.
 - PROVIDE #4#8" LONG @12" OC CAST MID-DEPTH IN SLAB AT OVERHEAD DOOR LOCATIONS WHERE SLAB EXTENDS OVER FOUNDATION WALL. SEE DETAILS.
 - PREMOLDED TRENCH DRAIN. 3/4" LOWER THAN FFE. SEE PROCESS DRAWINGS.
 - (2) #4#5'-0" LONG CAST IN SLAB AT ALL RE-ENTRANT LOCATIONS. PROVIDE #4#5'-0" LONG RE-ENTRANT BEND BARS AS NECESSARY FOR PROPER PLACEMENT.



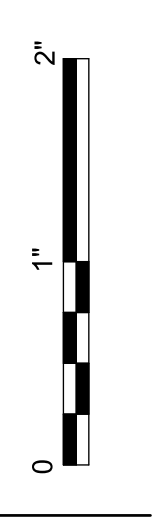
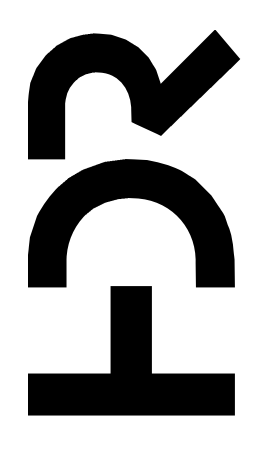
UPPER PAVILION FOUNDATION PLAN

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY



PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER

ISSUE	DATE	DESCRIPTION
1	07/14/2023	ISSUED FOR BID



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Date: 2023.07.14 16:01:03-0400
Bruce Bradley

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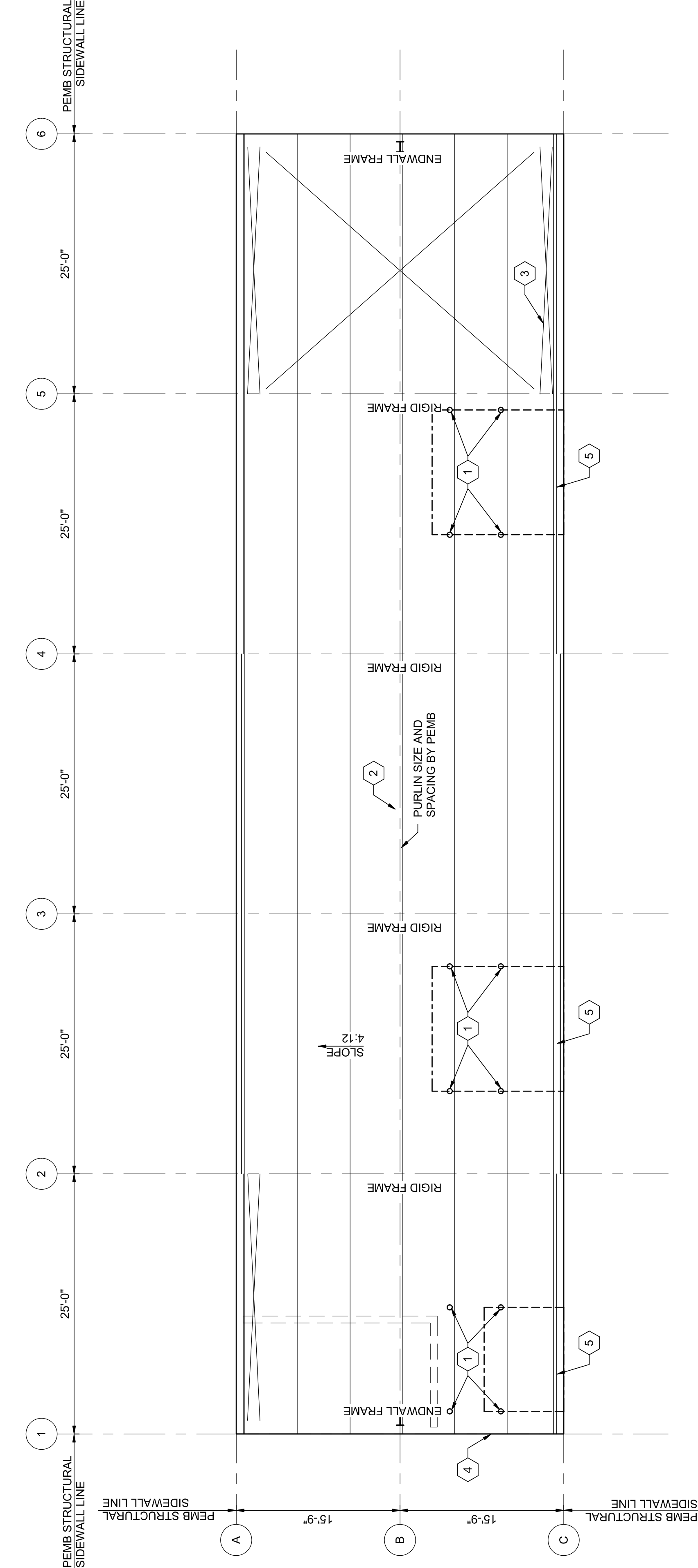
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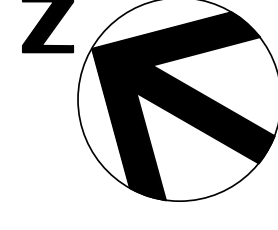
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ROOF FRAMING PLAN
1/8" = 1'-0"



PLAN NORTH

GENERAL NOTES:

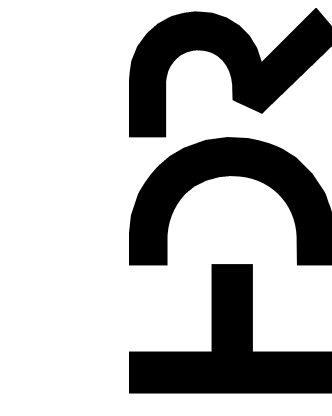
- SEE SHEET 00S-001 FOR DESIGN STANDARDS AND BUILDING CODE INFORMATION.
- SEE SHEET 00S-001 FOR DESIGN LOADS.
- PIER CONFIGURATIONS ARE AS INDICATED ON SHEET 00S-001. THESE CONFIGURATIONS ARE NOT TO BE CONSIDERED COMPATIBLE TO THE DESIGN OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SUCH THAT MODIFICATIONS CAN BE MADE PRIOR TO PIER REINFORCEMENT FABRICATION AND CONSTRUCTION.
- GENERAL ASSUMPTIONS HAVE BEEN MADE BY THE STRUCTURAL ENGINEER FOR THE FOUNDATION DESIGN. THE GENERAL CONTRACTOR AND PEMB SHALL SUBMIT FOUNDATION DESIGN AND CONSTRUCTION DETAILS WITH THE FOUNDATIONS SHOWING ADJUSTMENTS MAY BE REQUIRED IN THE FIELD PRIOR TO CONSTRUCTION. ANY CHANGES REQUIRED SHALL BE MADE AT NO ADDITIONAL COST TO THE PROJECT.
- FRAME REACTIONS AND ANCHOR BOLT SETTING PLAN SHALL BE SUBMITTED TO THE ENGINEER CONCURRENTLY WITH THE FOUNDATION DESIGN. FOUNDATION BRACINGS FOR REVIEW AND APPROVAL AND CHANGES REQUIRED SHALL BE MADE AT NO ADDITIONAL COST TO THE PROJECT.
- THE PEMB SHALL DESIGN ALL ANCHOR BOLTS. ANCHOR BOLT SIZES SHALL BE FURNISHED TO THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ANCHOR BOLTS.
- ALL RIGID FRAMES SHALL HAVE PINNED CONNECTIONS TO THE FOUNDATION.
- COLUMN BASE PLATES SHALL BE LEVELED WITH LEVELING NUTS OR SHIMS AND GROUTED SOLID WITH 2" NON-SHRINK GROUT.
- PEMB AND CONTRACTOR SHALL PROVIDE BRACINGS AS NECESSARY TO MAINTAIN FLAT AND LEVEL GIRTS DURING BUILDING ERECTION.

KEYNOTES: (#)

- DENOTES APPROXIMATE POINT LOAD LOCATIONS FOR OVERHEAD DOOR TRACK. GENERAL CONTRACTOR SHALL COORDINATE WEIGHT AND LOCATION WITH PRE-ENGINEERED METAL BUILDING MANUFACTURER.
- PURLIN SIZE, SPACING AND MATERIAL PROVIDED BY PEMB.
- ANTICIPATED LOCATION OF CROSS BRACING IN ROOF AND WALLS.
- MANDOOR FRAMING PROVIDED AND INSTALLED BY PEMB.
- OVERHEAD DOOR FRAMING PROVIDED AND INSTALLED BY PEMB.

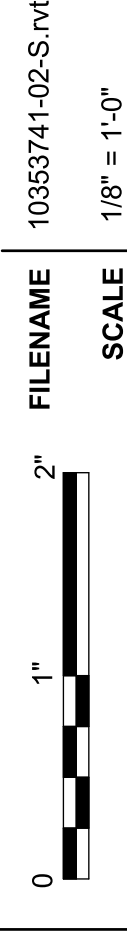
PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
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PROJECT NUMBER	10357686

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IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

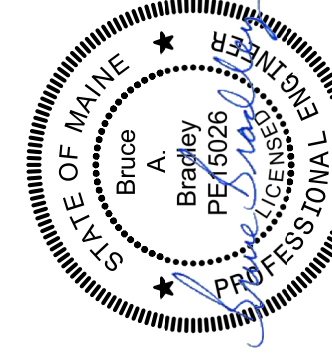
UPPER PAVILION FRAMING PLAN



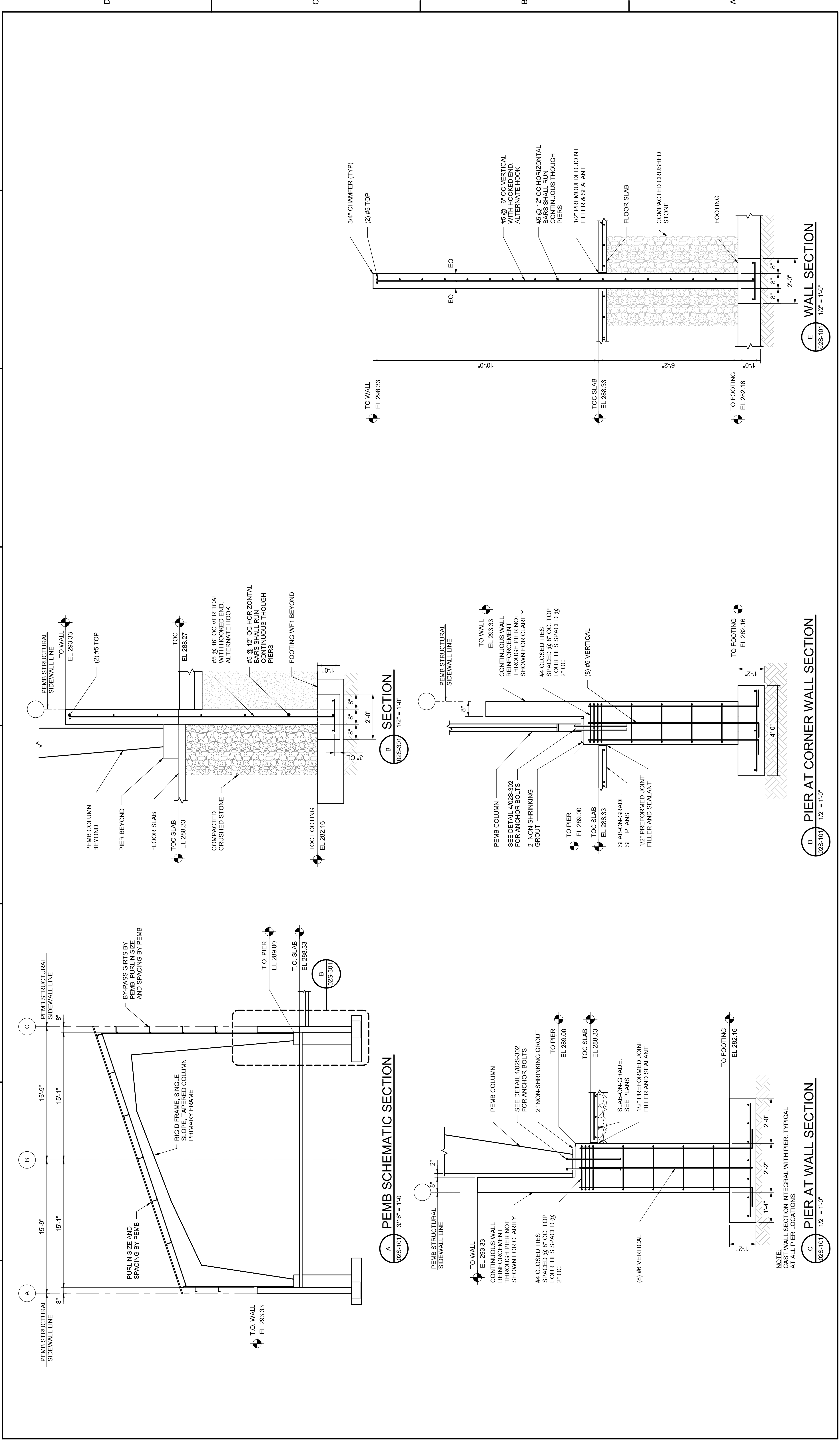
FILENAME 10353741-02S.rvt

SCALE 1/8" = 1'-0"

SHEET
02S-102



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Date: 2023.07.14 16:01:14-0400
Bruce Bradley



PEMB SCHEMATIC SECTION

(A) 3/16" = 1'-0"

PIER AT WALL SECTION

(C) 1/2" = 1'-0"

SECTION

(B) 1/2" = 1'-0"

PIER AT CORNER WALL SECTION

(D) 1/2" = 1'-0"

WALL SECTION

(E) 1/2" = 1'-0"

PROJECT MANAGER ANDREW GURSKI

CIVIL	J. GAGNON
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ARCHITECTURAL	M. BASKIN
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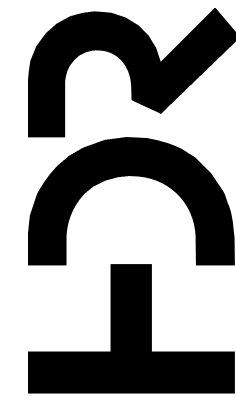
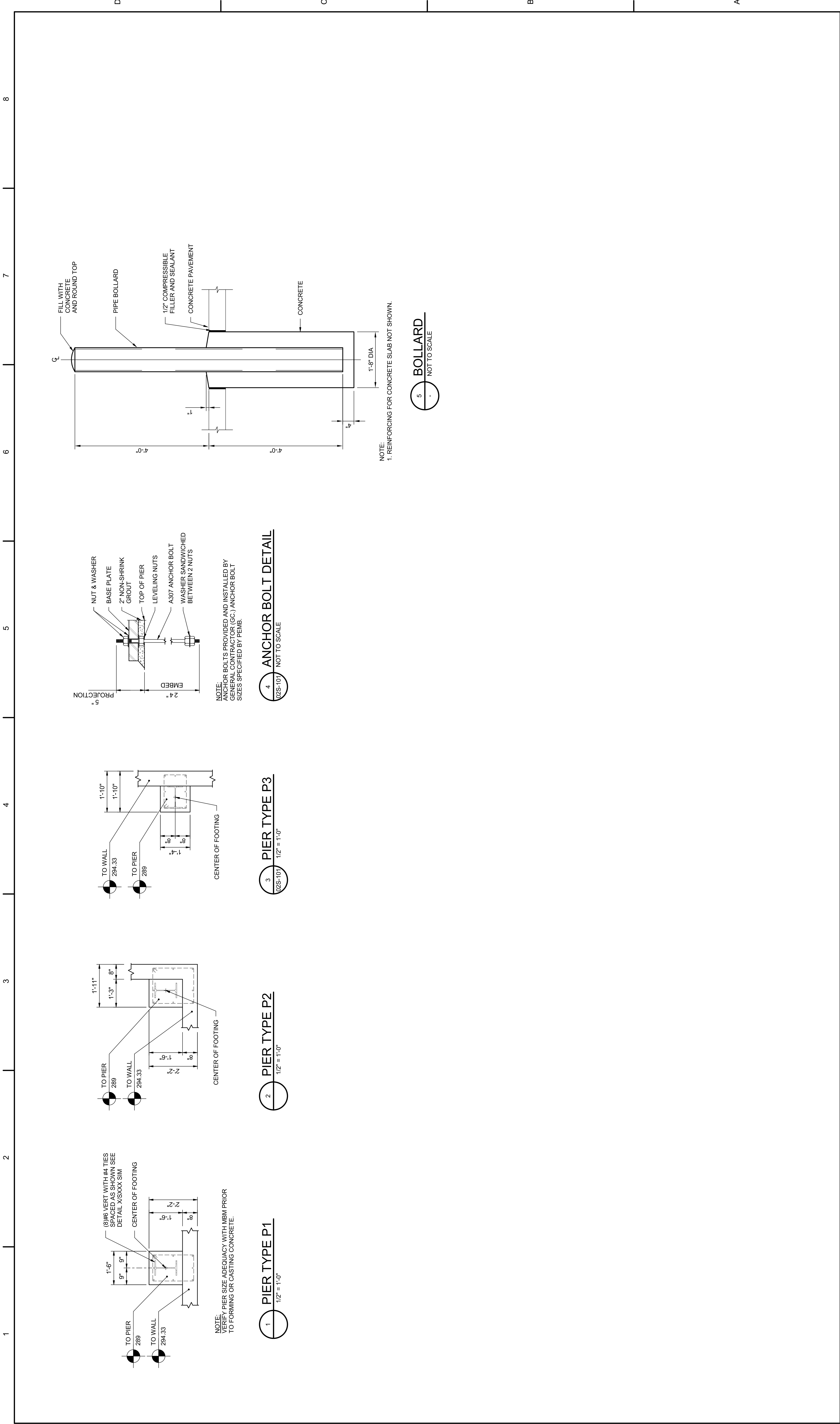
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Date: 2023.07.14
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FOR

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

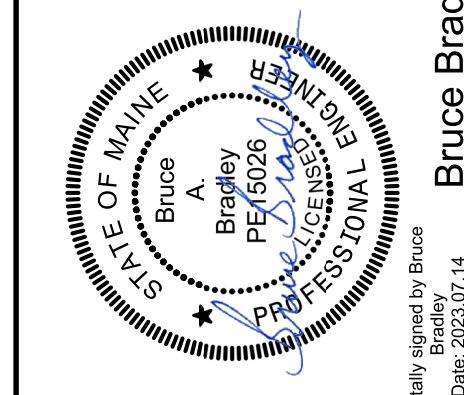
UPPER PAVILION SECTIONS

FILENAME 1035741-02-S.rvt
SCALE As Indicated
SHEET **02S-301**



PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

ISSUE	DATE	DESCRIPTION
	07/14/2023	ISSUED FOR BID



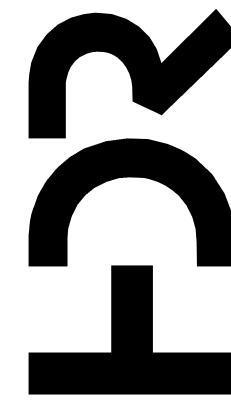
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Date: 2023.07.14 16:01:32-0400

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

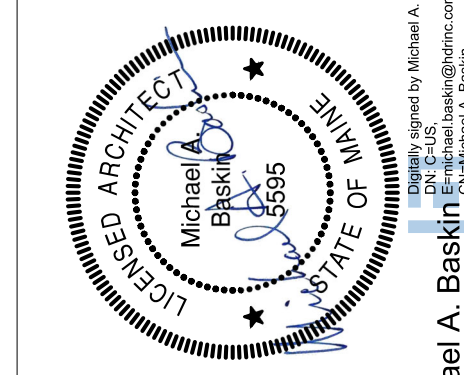
UPPER PAVILION DETAILS



FILENAME 10353741-02-S.rvt
SCALE As Indicated



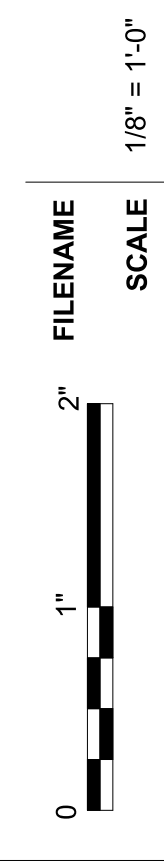
PROJECT MANAGER ANDREW GURSKI
 CIVIL J. GAGNON
 STRUCTURAL B. BRADLEY
 ARCHITECTURAL M. BASKIN
 PROCESS J. CHANDLER
 MECHANICAL J. CHANDLER
 ELECTRICAL A. KANER



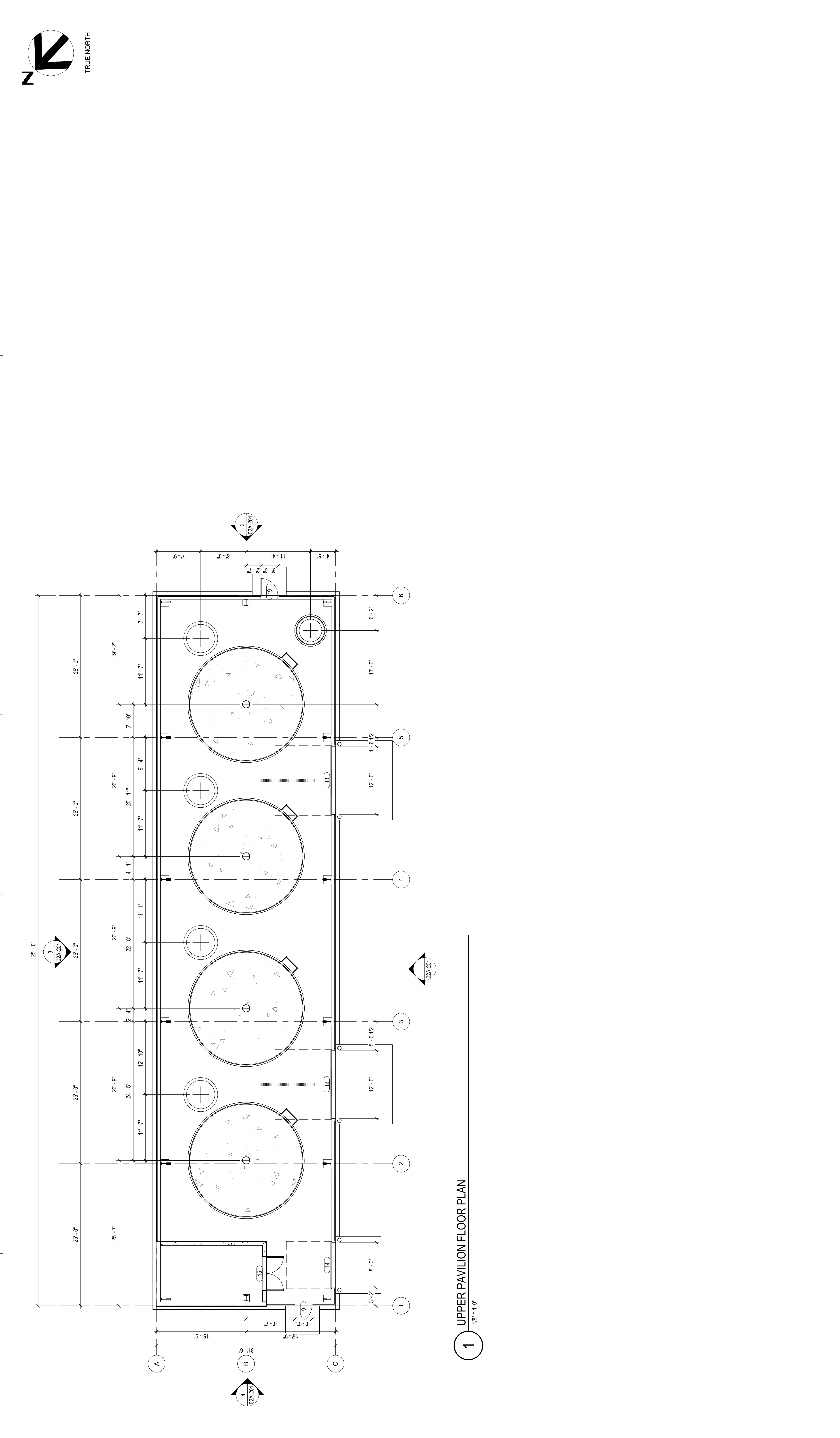
Michael A. Baskin
 License No. 5595
 State of Maine
 00357686

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

UPPER PAVILION PLAN



SHEET
02A-101

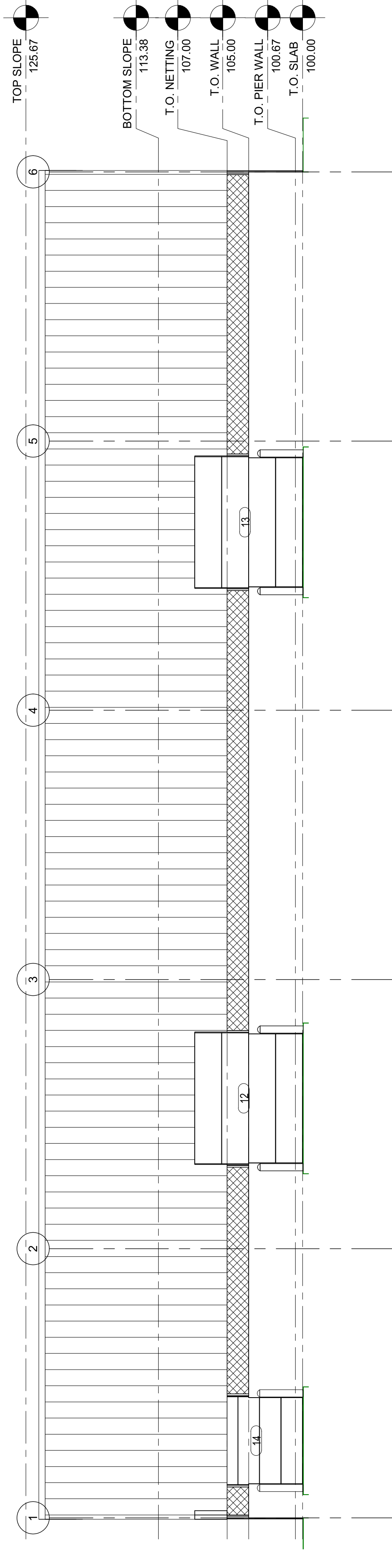


1 UPPER PAVILION FLOOR PLAN
 1/8" = 1'-0"

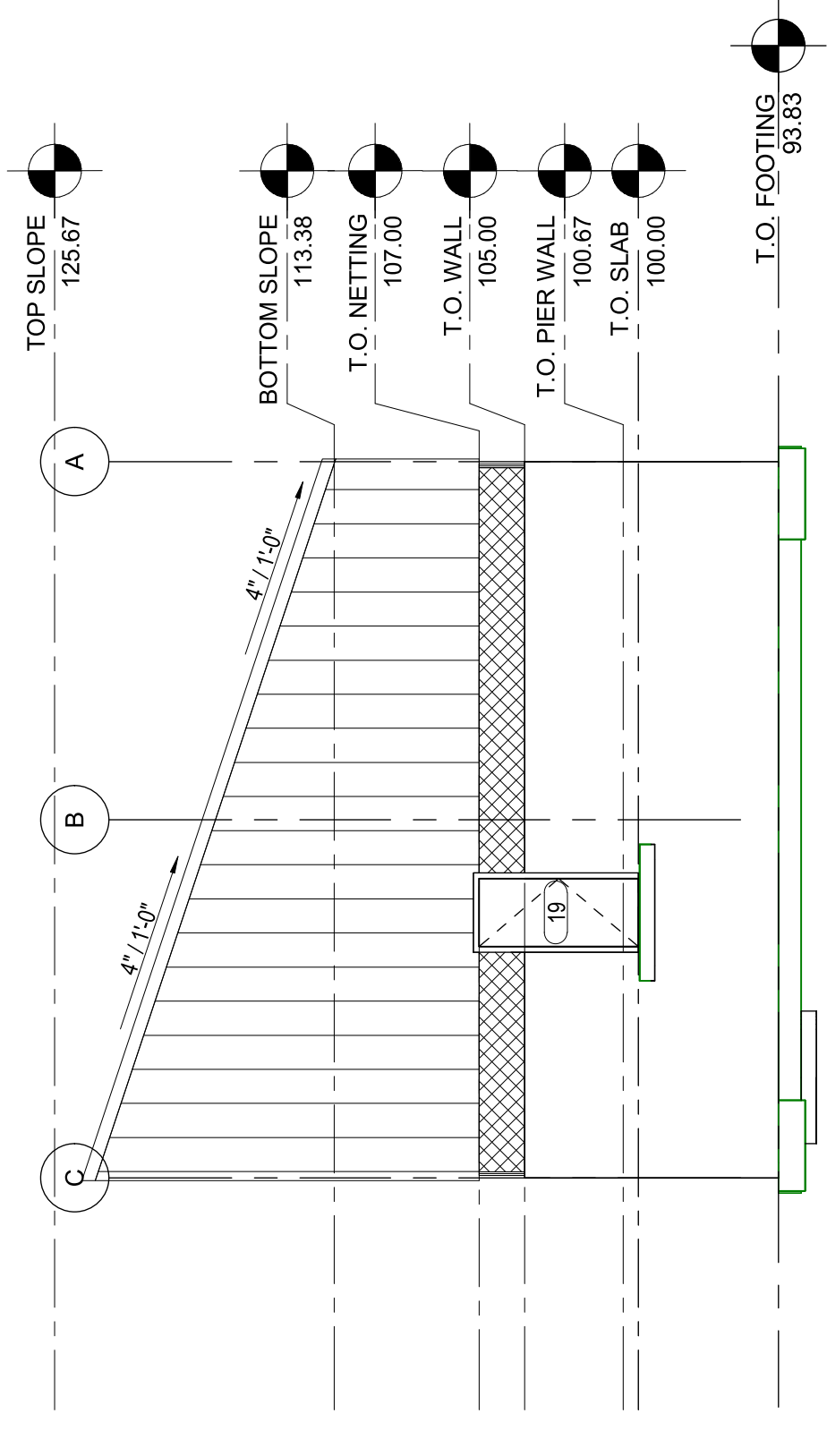
ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

PROJECT NUMBER 10357686

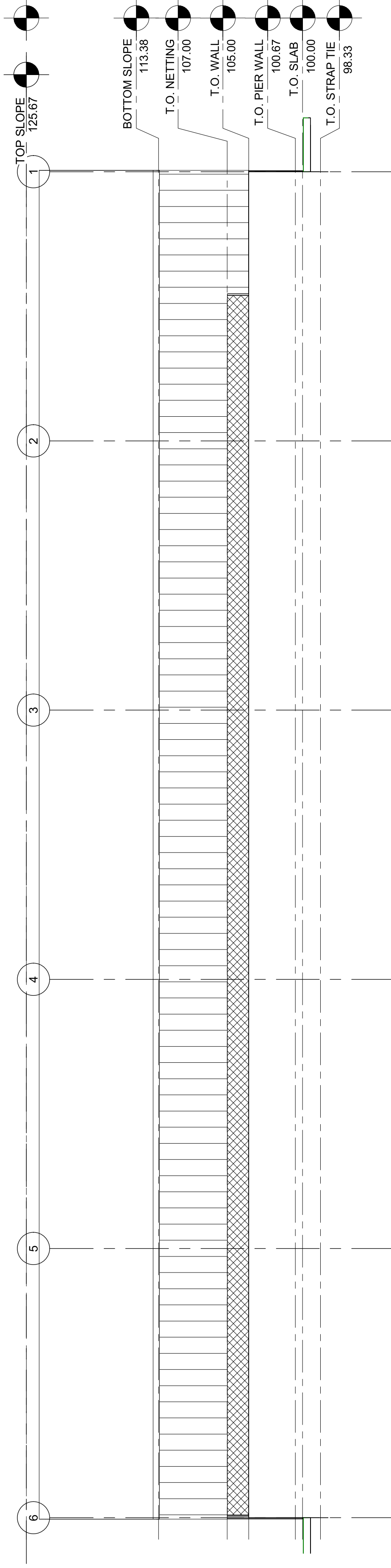
1 2 3 4 5 6 7 8



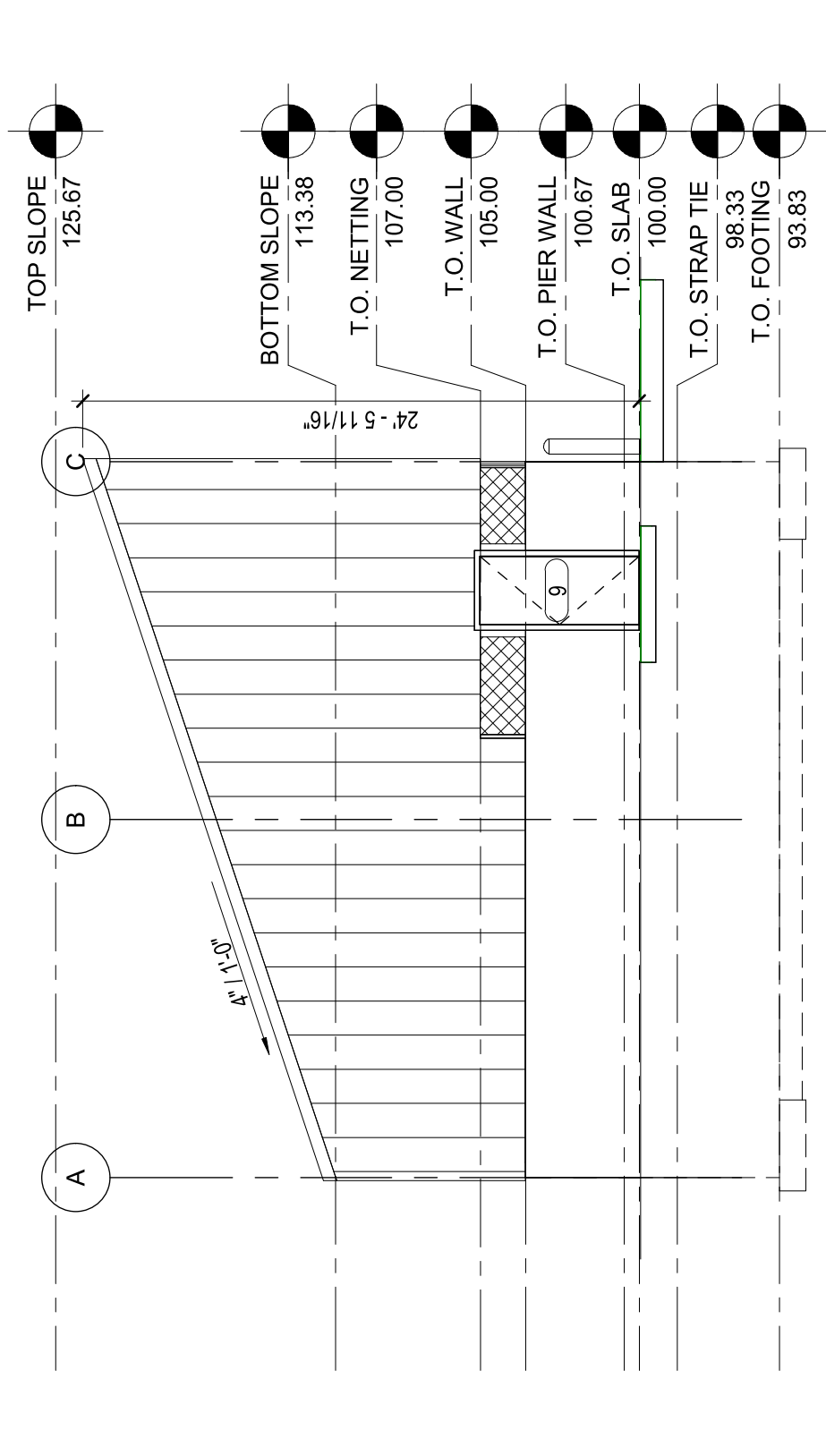
1 UPPER PAVILION SOUTH ELEVATION
1/8" = 1'-0"



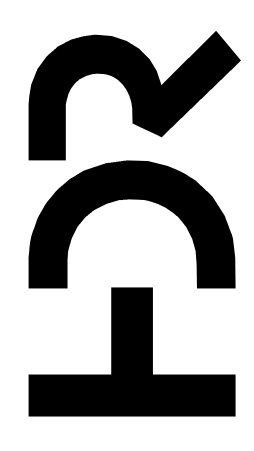
2 UPPER PAVILION EAST ELEVATION
1/8" = 1'-0"



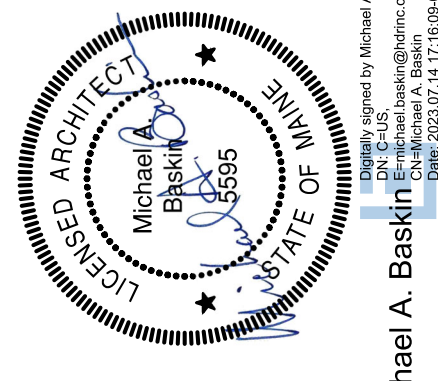
3 UPPER PAVILION NORTH ELEVATION
1/8" = 1'-0"



4 UPPER PAVILION WEST ELEVATION
1/8" = 1'-0"



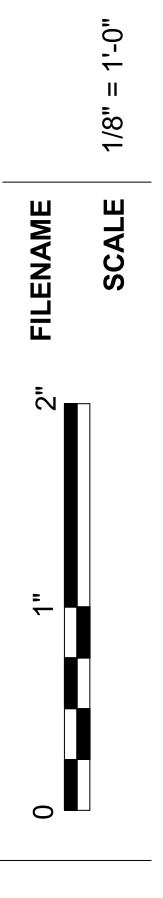
PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



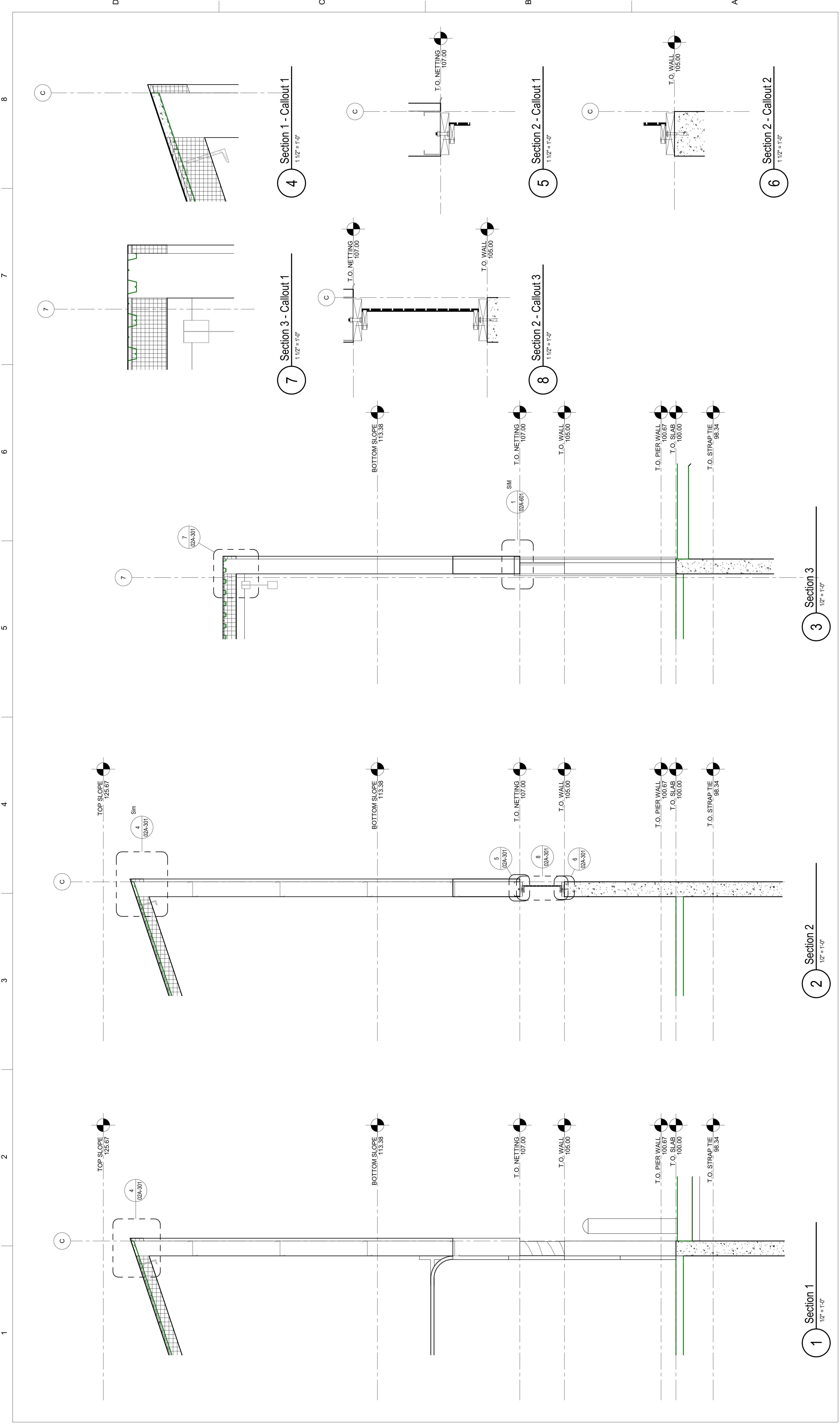
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

UPPER PAVILION EXTERIOR ELEVATIONS

ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID



SHEET
02A-201



1 Section 1
1/2" = 1'-0"

2 Section 2
1/2" = 1'-0"

3 Section 3
1/2" = 1'-0"

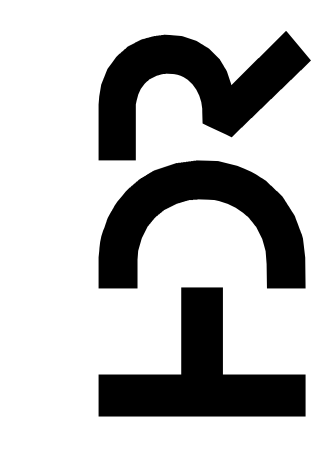
4 Section 1 - Callout 1
1 1/2" = 1'-0"

7 Section 3 - Callout 1
1 1/2" = 1'-0"

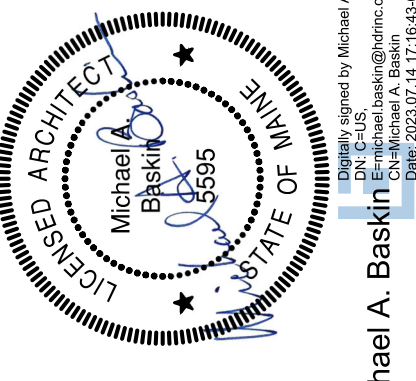
5 Section 2 - Callout 1
1 1/2" = 1'-0"

8 Section 2 - Callout 3
1 1/2" = 1'-0"

6 Section 2 - Callout 2
1 1/2" = 1'-0"



PROJECT MANAGER ANDREW GURSKI
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IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

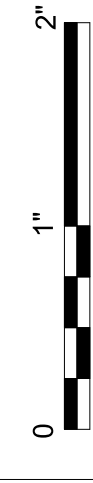
UPPER PAVILLION WALL SECTION & DETAILS

ISSUE	DATE	ISSUED FOR BID	DESCRIPTION
	07/14/2023	ISSUED FOR BID	

PROJECT NUMBER 10357686

SHEET

FILENAME

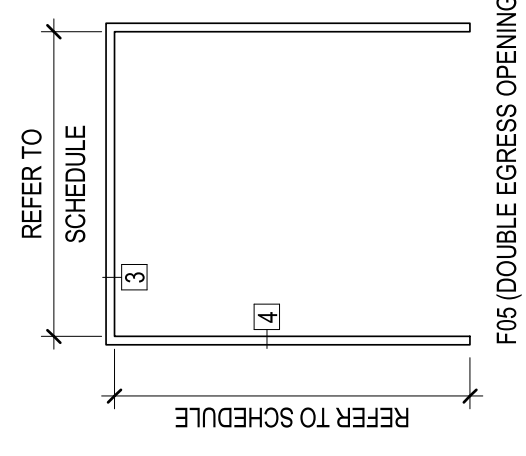
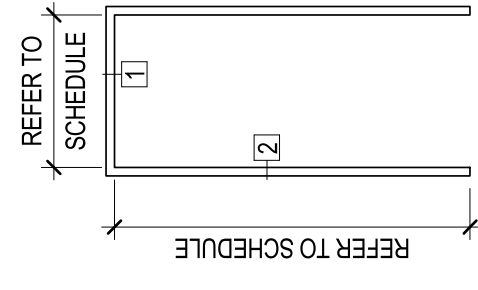
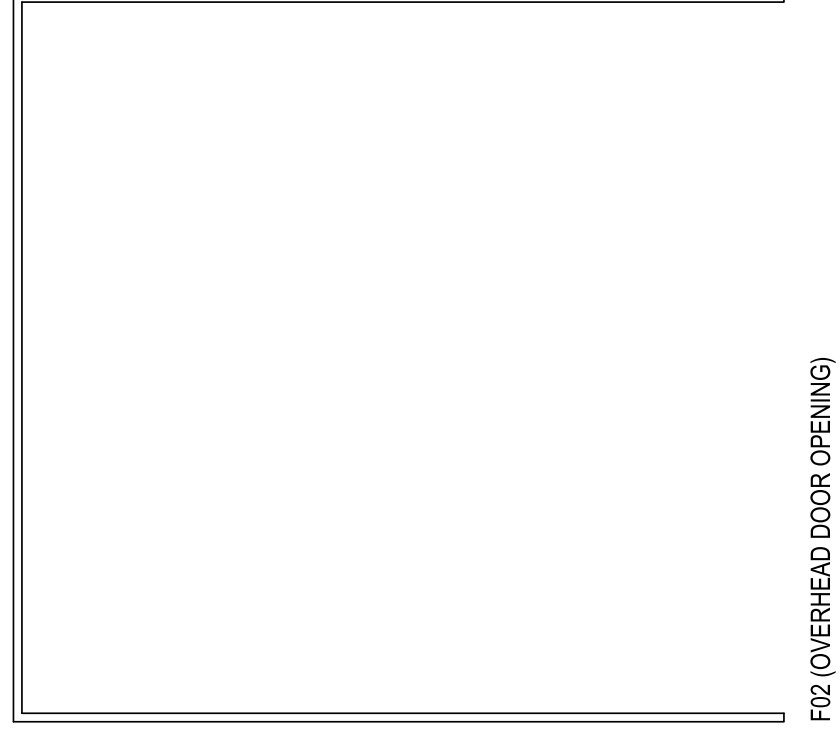


SCALE As Indicated

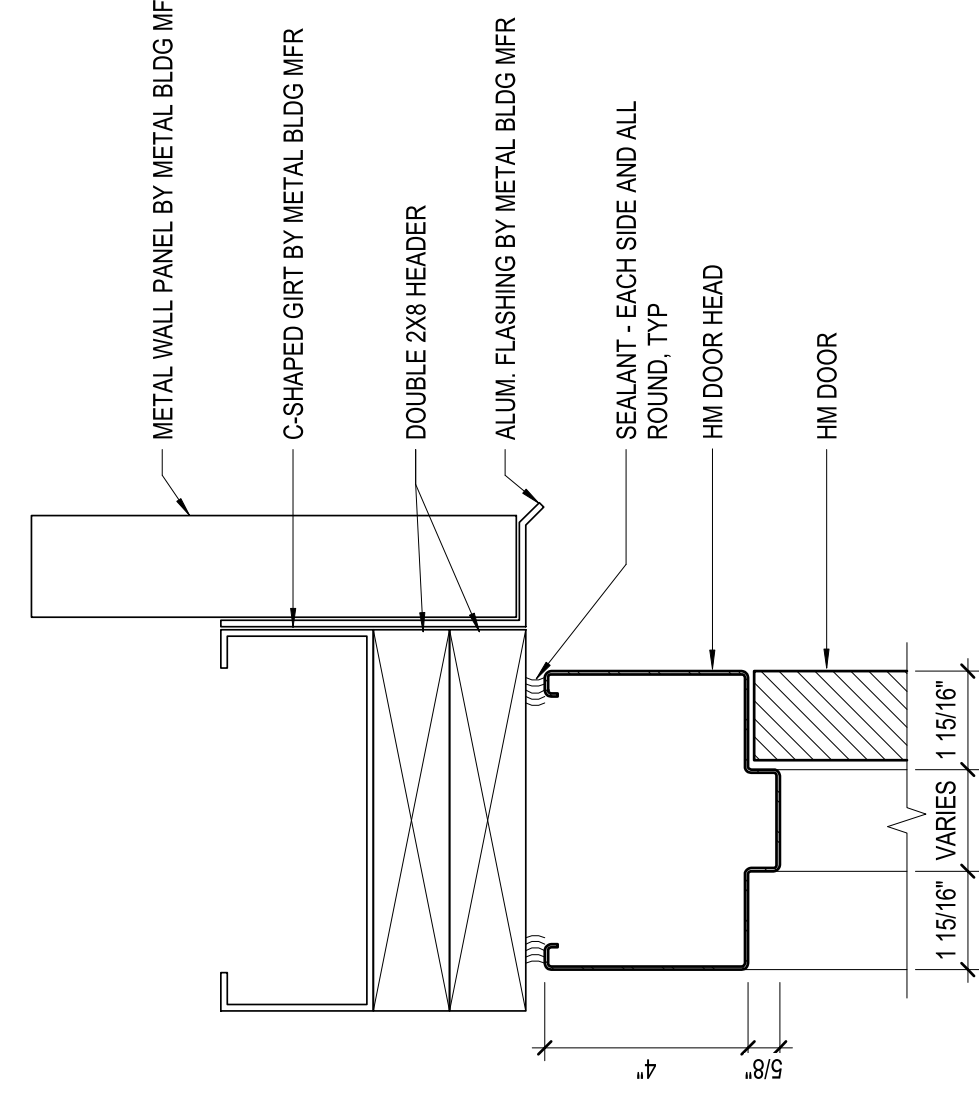
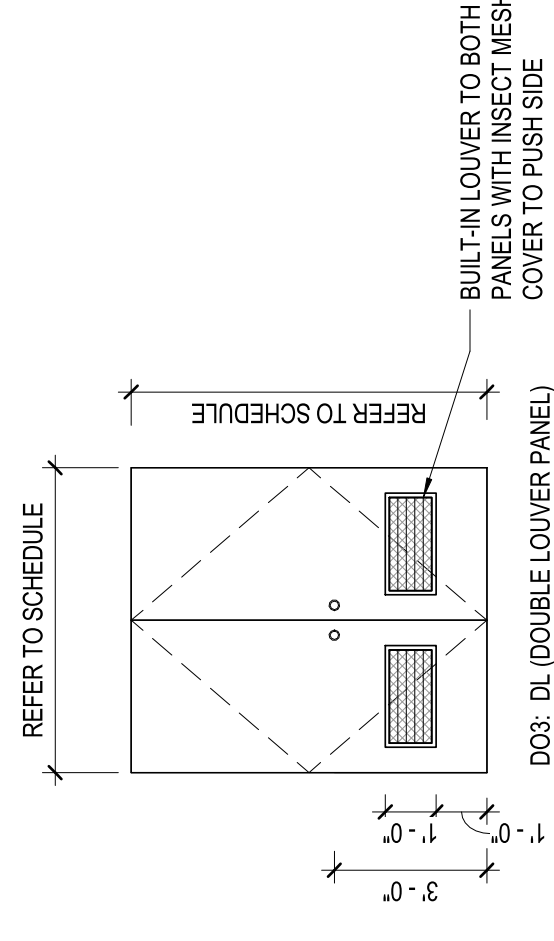
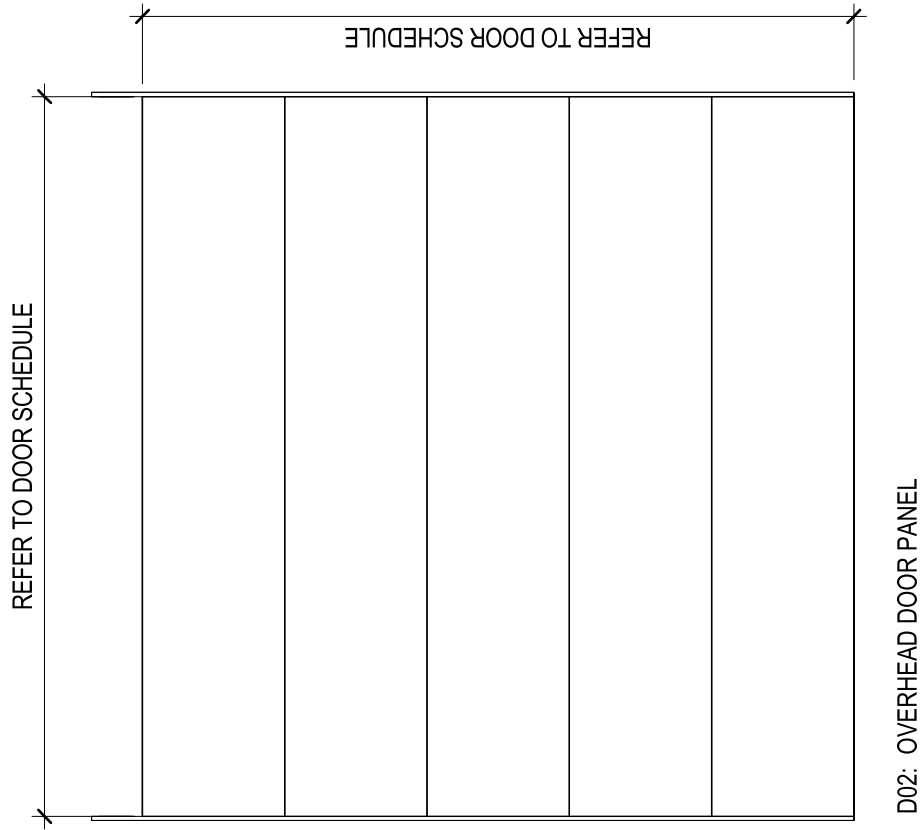
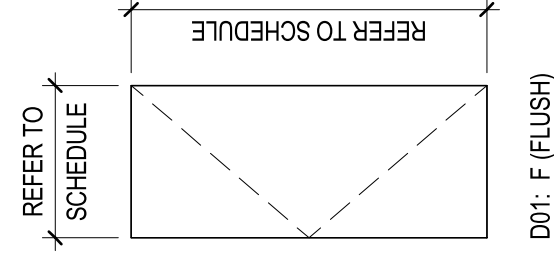
SHEET

02A-301

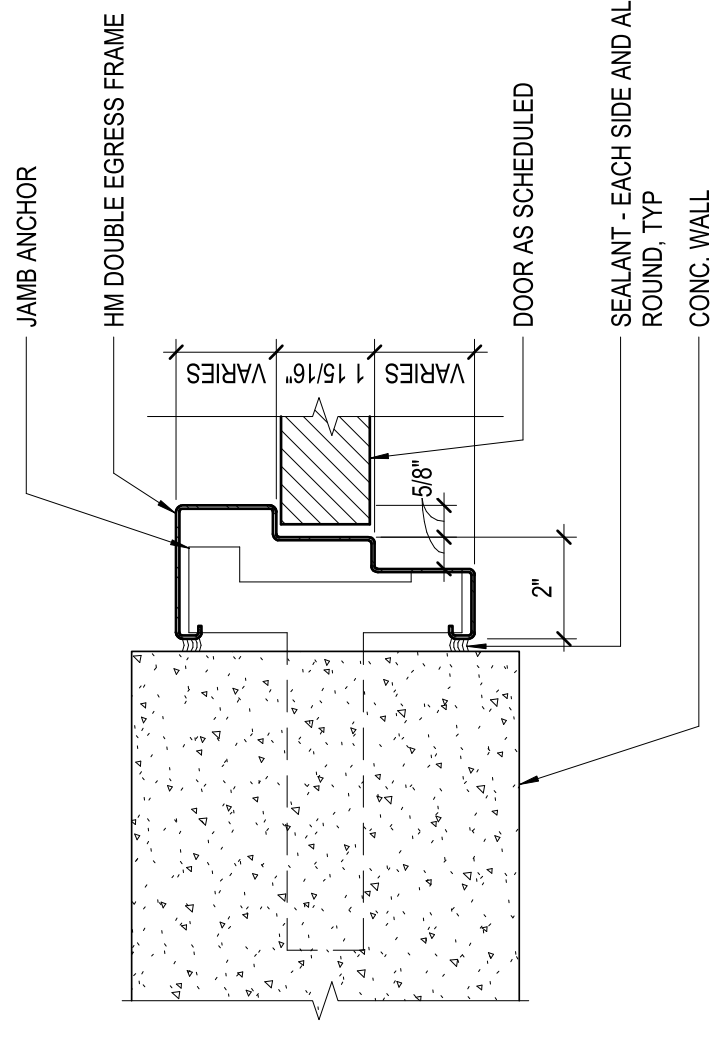
IDENTIFICATION		DOOR AND FRAME SCHEDULE				DIMENSIONS		PANEL		FRAME		HARDWARE		NOTES		
LEVEL	ROOM NO.	ROOM NAME	DOOR NO.	DOOR TYPE	T	H	OPENING WIDTH		Material	Finish	Type	Material	Finish		Fire Rating	Group
							W1	W2	Total Width							
T.O. SLAB	201	FEED STORAGE	15	D03		7'-0"	3'-0"	3'-0"	6'-0"	METAL	PAINTED	F05	METAL	PAINTED	N/A	2
T.O. SLAB	200	TANK ROOM	9	D01		7'-0"	-	3'-0"	7'-0"	METAL	PAINTED	F01	METAL	PAINTED	N/A	2
T.O. SLAB	200	TANK ROOM	12	D02		12'-0"	-	12'-0"	12'-0"	METAL	PAINTED	F02	METAL	PAINTED	N/A	2
T.O. SLAB	200	TANK ROOM	13	D02		12'-0"	-	12'-0"	12'-0"	METAL	PAINTED	F02	METAL	PAINTED	N/A	2
T.O. SLAB	200	TANK ROOM	14	D02		7'-0"	-	8'-0"	7'-0"	METAL	PAINTED	F02	METAL	PAINTED	N/A	2
T.O. SLAB	200	TANK ROOM	19	D01		7'-0"	-	3'-0"	7'-0"	METAL	PAINTED	F01	METAL	PAINTED	N/A	2



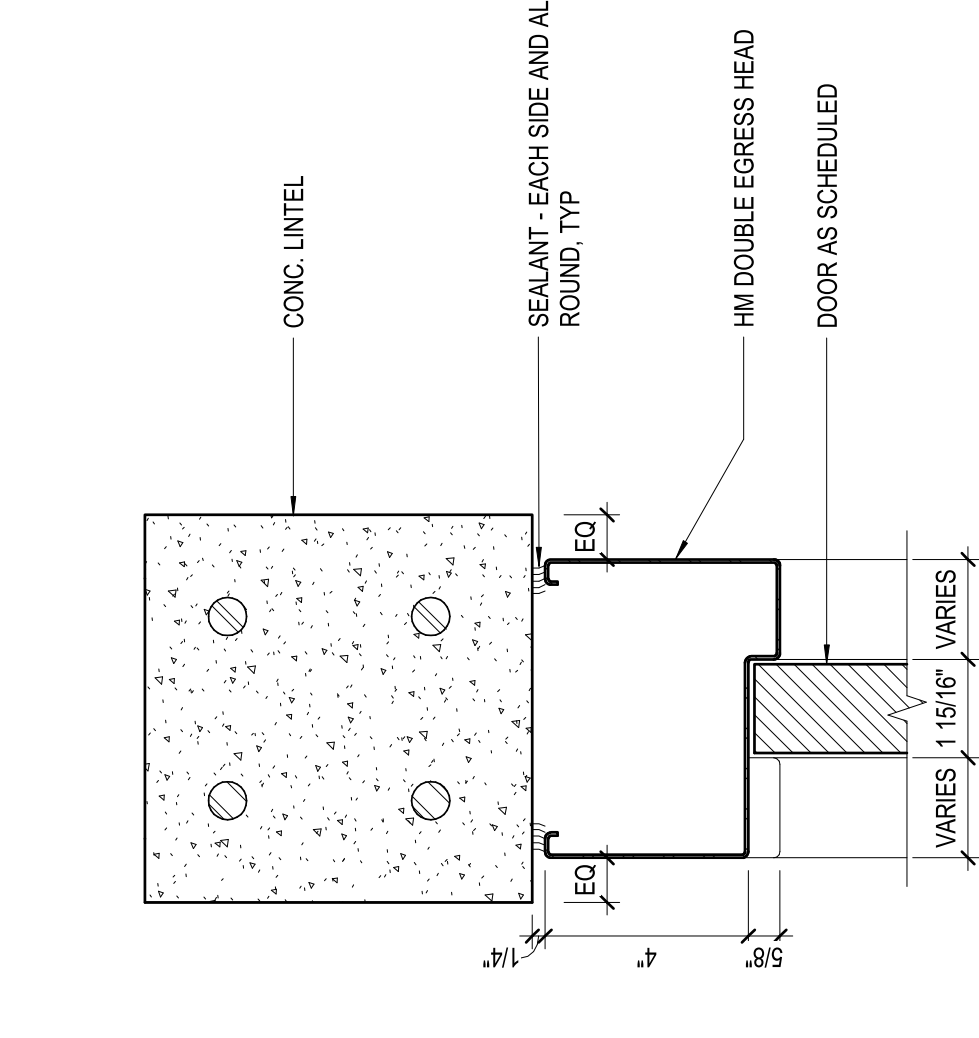
DOOR FRAME TYPES



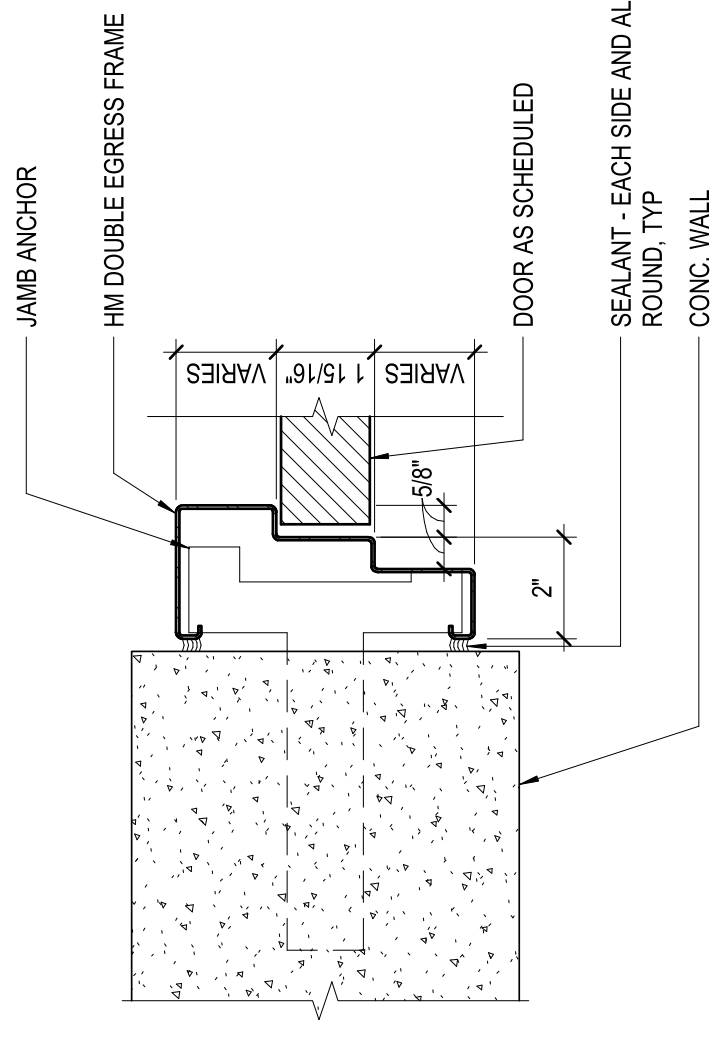
1 HEAD - HM DOOR
3" = 1'-0"



2 JAMB - HM DOOR
3" = 1'-0"

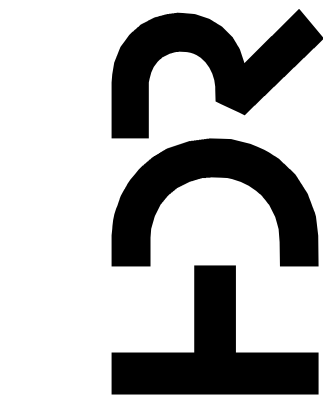


3 HEAD - HM DOUBLE EGRESS DOOR
3" = 1'-0"

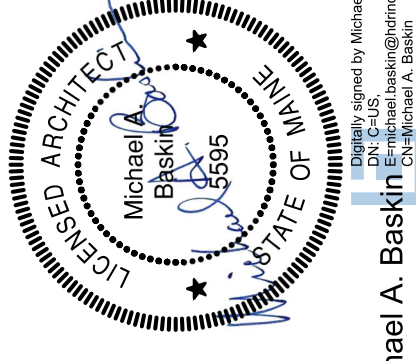


4 JAMB - HM DOUBLE EGRESS DOOR
3" = 1'-0"

DOOR TYPES



PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

UPPER PAVILION DOOR SCHEDULE AND DETAILS

SCALE: 1" = 2'-0" (As Indicated)

FILENAME: 02A-601

SHEET: 02A-601

ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	

Michael A. Baskin
Professional Engineer
License No. 5595
State of Maine
www.maineboard.com
2023.07.14 12:17:14:40P

1 2 3 4 5 6 7 8

D

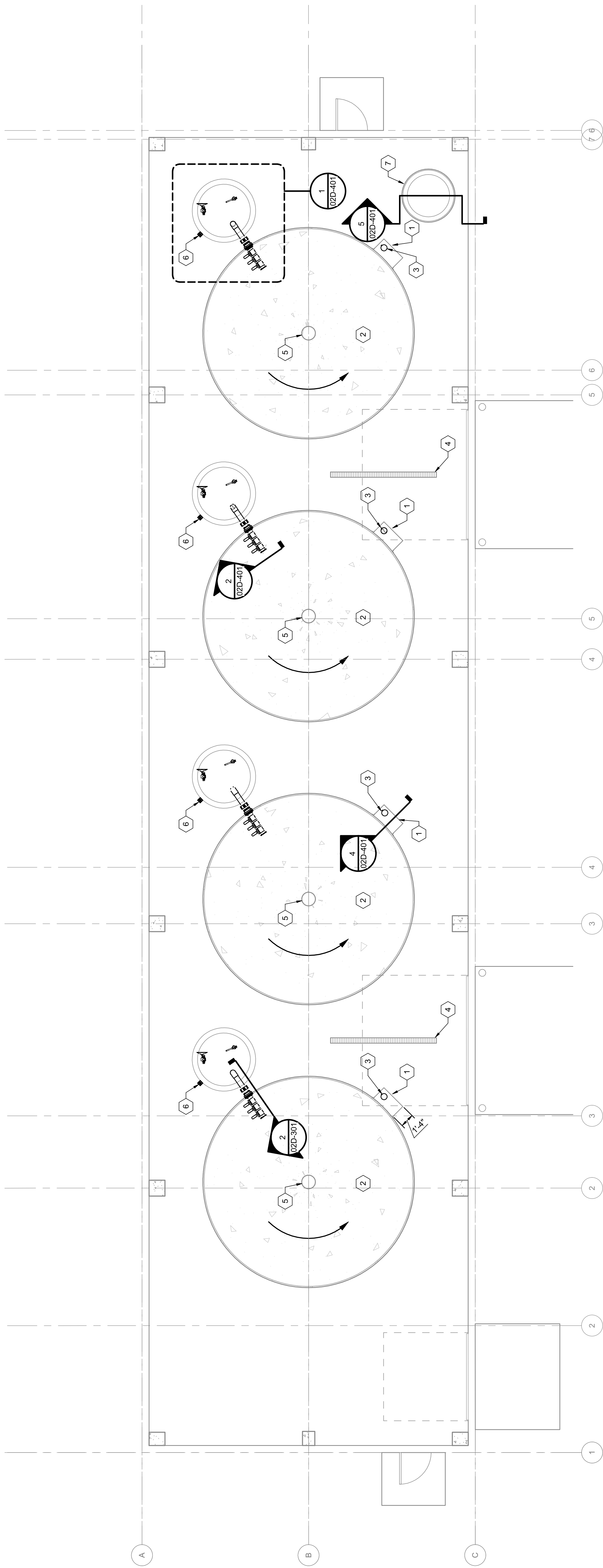
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B

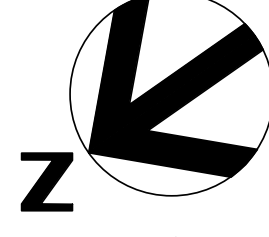
A

KEYED NOTES (#)

- 1 TYP. SCREENED SIDE OVERFLOW BOX OF REARING TANK
- 2 TYP. 20" DIA. DUAL FLOW REARING TANK
- 3 TYP. 4" REMOVABLE OVERFLOW STANDPIPE FOR REUSE OF 88% OF TANK FLOW
- 4 4" INSIDE WIDTH PRE-MOLDED TRENCH DRAIN
- 5 TYP. BOTTOM DRAIN SUMP LEADS FLOW UNDER TANKS TO DRUMFILTER (15% OF TANK FLOW)
- 6 OXY METER
- 7 WATER PRIORITIZATION LEVEL CONTROL WEIR BOX



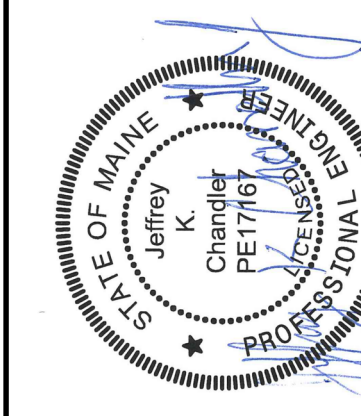
0 2 4 8' 1 ABOVE FLOOR PROCESS PIPING PLAN 3/16" = 1'-0"



PROJECT MANAGER ANDREW GURSKI

CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER

PROJECT NUMBER 10357686

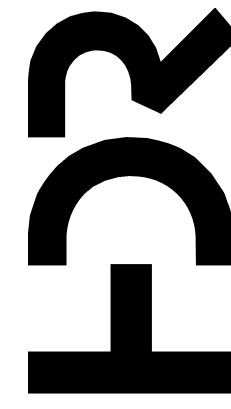


Digitally signed by Jeffrey K. Chandler, Jr.
Date: 2023.07.14 17:26:45-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

UPPER PAVILION ABOVE FLOOR PROCESS PIPING PLAN

ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

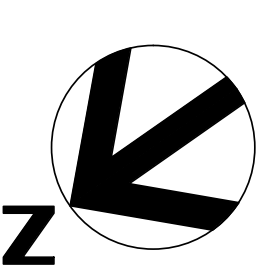
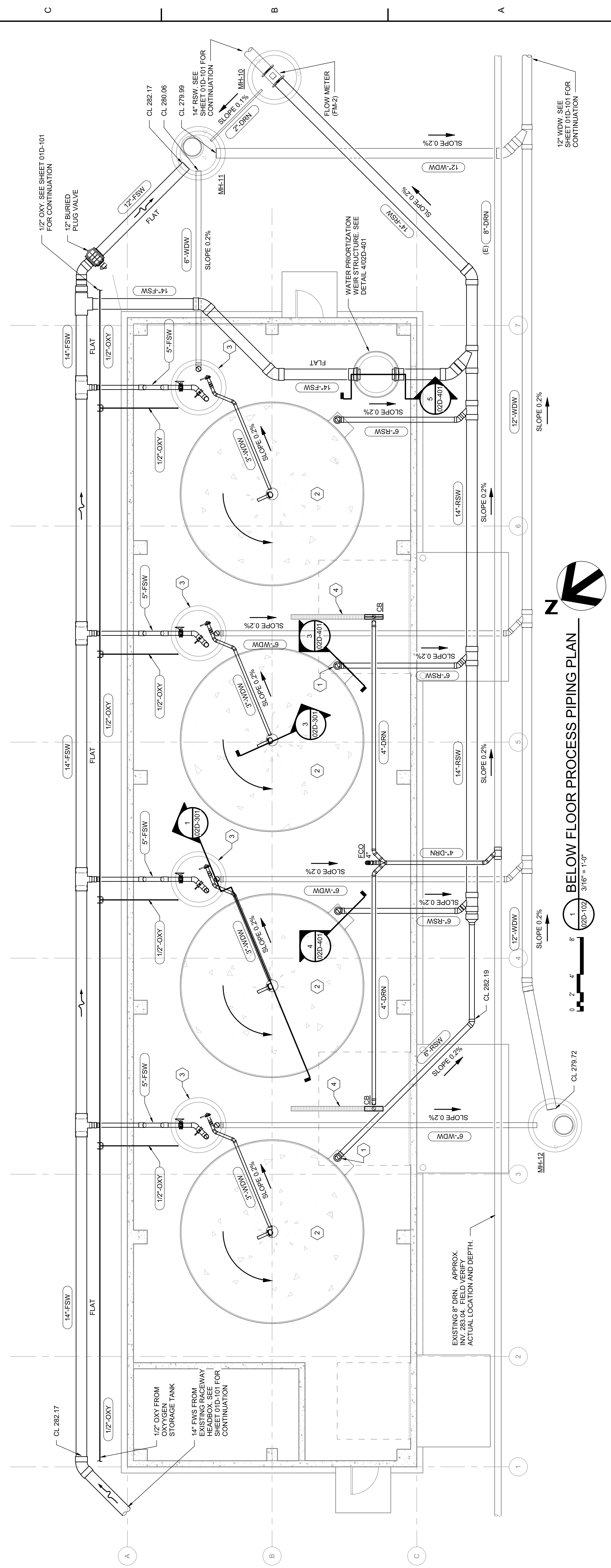


FILENAME 1035741-02-D.rvt
SCALE 3/16" = 1'-0"

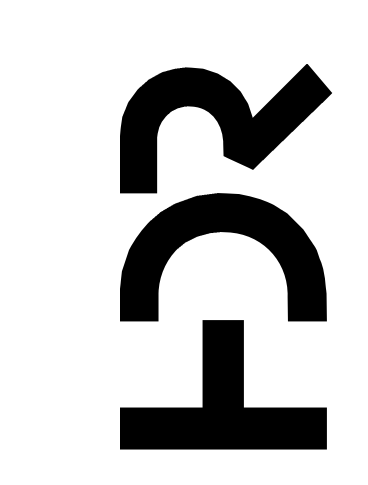
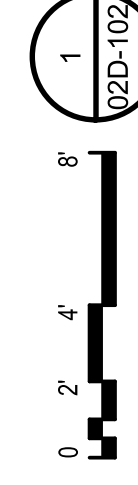
SHEET
02D-101

1 2 3 4 5 6 7 8

- KEYED NOTES**
- 1 TYP. SCREENED SIDE OVERFLOW BOX OF REARING TANK
 - 2 TYP. 20" DIA. DUAL FLOW REARING TANK
 - 3 TYP. 5'-0" ID VALVE BASIN
 - 4 4" INSIDE WIDTH PRE-MOLDED TRENCH DRAIN

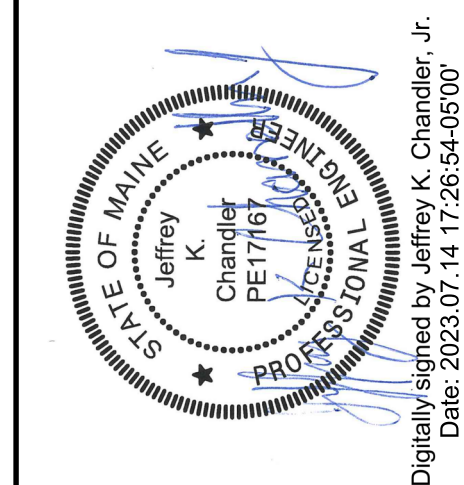


BELOW FLOOR PROCESS PIPING PLAN
 1/16" = 1'-0"



IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

UPPER PAVILION BELOW FLOOR PROCESS PIPING PLAN



Digitally signed by Jeffrey K. Chandler, Jr.
 Date: 2023.07.14 17:26:54-05'00'

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER

ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	

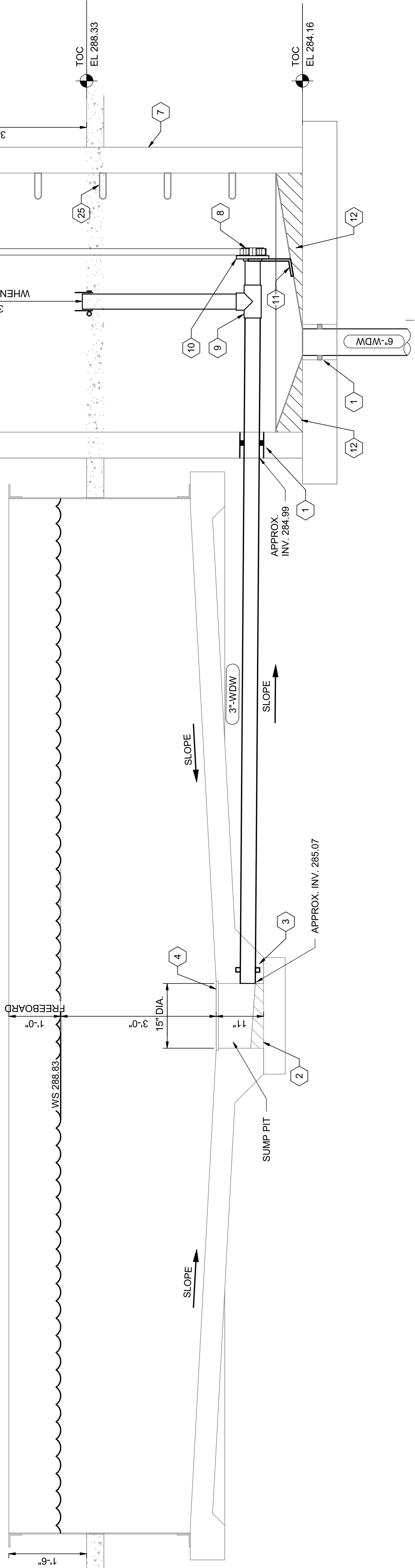
FILENAME: 10357696_10357696-02.dwg
 SCALE: 3/16" = 1'-0"

SHEET: 02D-102

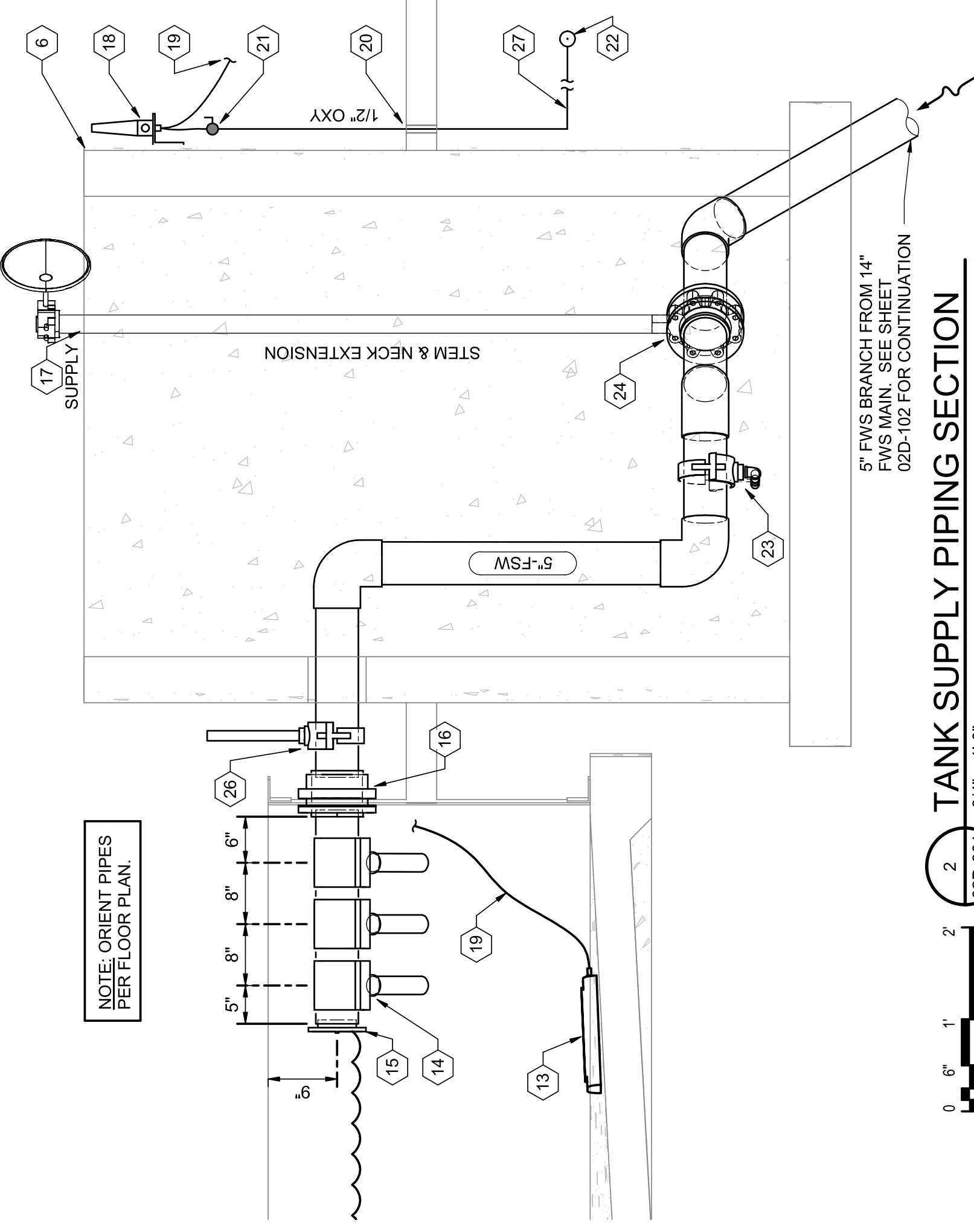
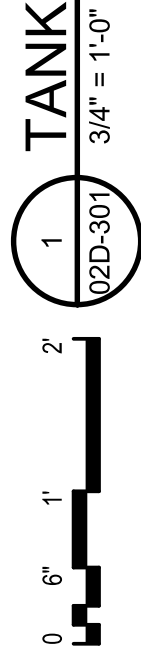
KEYED NOTES

- 1 LINKAGE TYPE SEAL
- 2 SLOPE GROUT TO DRAIN
- 3 FIELD APPLIED NON-SWELLING WATERSTOP
- 4 FISH SCREEN PER STRUCTURAL SHEETS
- 5 GALV. OR SS VALVE & NECK SUPPORT 2" CLEAR BELOW MANHOLE RIM FOR EACH VALVE
- 6 VALVE BASIN
- 7 TOPLESS MANHOLE WITH STEPS & CLEAN, SMOOTH OVER SURFACE
- 8 KNIFE GATE VALVE WITH STEM & NECK EXTENSION
- 9 SCH 40 PVC TEE SHOWN WITHOUT UPSTREAM 45 DEGREE BEND FOR CLARITY, INCLUDE BEND & ORIENTATE PER PLAN 1/02D-401
- 10 PVC ONE-PIECE SOCKET FLANGE
- 11 SUPPORT FLANGE OR PIPE TO GROUT W/ SS HARDWARE
- 12 GROUT SLOPED ALL AROUND TO DRAIN
- 13 CERAMIC OXYGEN DIFFUSER
- 14 ORIENT NOZZLES SIMILAR TO DETAIL 2/02D-401
- 15 EXPANSION PLUG
- 16 TANK ADAPTER, SCH 80 PVC BULKHEAD WITH AT LEAST 8.75" O.D. BODY (FPT TOWARD TANK)
- 17 WEATHERPROOF GEAR OR LEVER WITH AT LEAST 13 POSITIONS WITHOUT WING NUTS & WITHOUT SET SCREWS
- 18 SS BRACKET MOUNTED THORPE STYLE OXYGEN METER (6.7" SWM) WITH TOP 1" B.T.O.C. SHOWN ON OPPOSITE SIDE FOR CLARITY, LOCATE PER PLAN
- 19 1/4" HOSE TO OXYGEN DIFFUSER
- 20 TYP. PIPE PENETRATION THRU FLOOR
- 21 CONNECT ISOLATION BALL VALVE TO METER WITH ADAPTERS AND HOSE OR COPPER PIPE
- 22 1/2" OXY MAIN APPROX. 21" BELOW FLOOR
- 23 CURBSTOP VALVE WITH SEMI-PERMANENT SQUARE OPERATOR FOR WINTERIZATION/DRAIN/SEDIMENT FLUSH
- 24 BUTTERFLY VALVE (FISH TANK SUPPLY VALVE)
- 25 MANHOLE STEPS
- 26 5" SADDLE TAP W/ 1" SIGHT GLASS
- 27 BURIED 1/2" OXY
- 28 3" HYDROSTATIC PRESSURE RELIEF VALVE EQUAL TO PENN-TROY A2580
- 29 FLANGED WALL PIPE WITH ANTI-SLEEP RING & SCREEN
- 30 CLEAN CRUSHED STONE

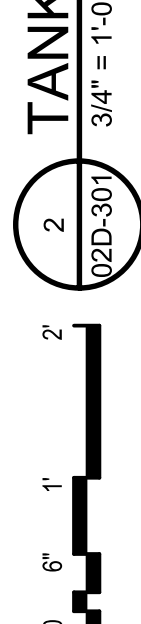
NOTE: ORIENT PIPES PER FLOOR PLAN.



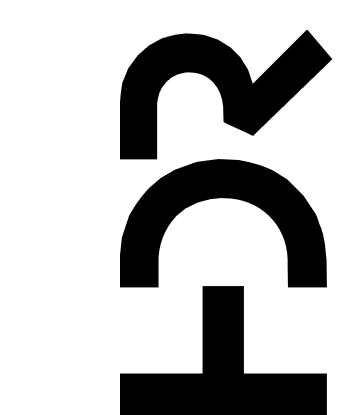
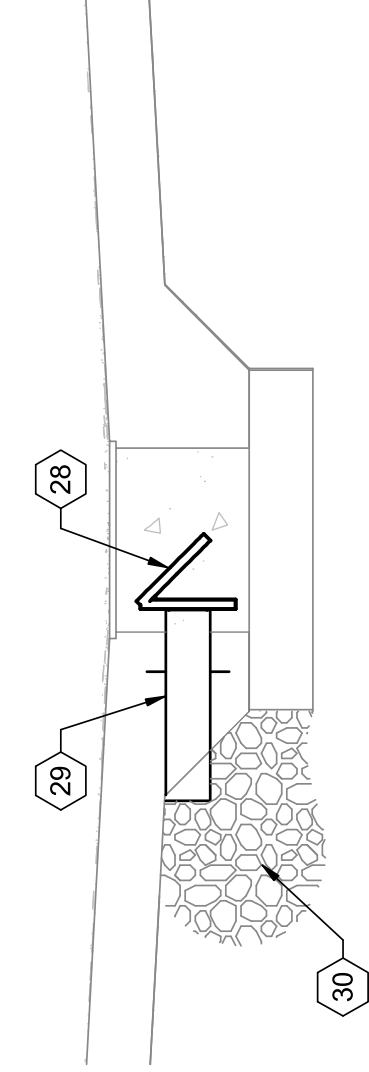
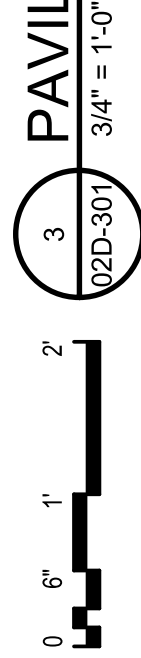
TANK DRAIN PIPING SECTION



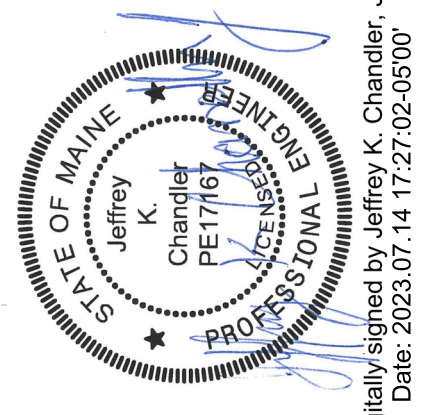
TANK SUPPLY PIPING SECTION



PAVILION HYDROSTATIC PRESSURE RELIEF VALVE SECTION



PROJECT MANAGER	ANDREW GURSKI
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ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



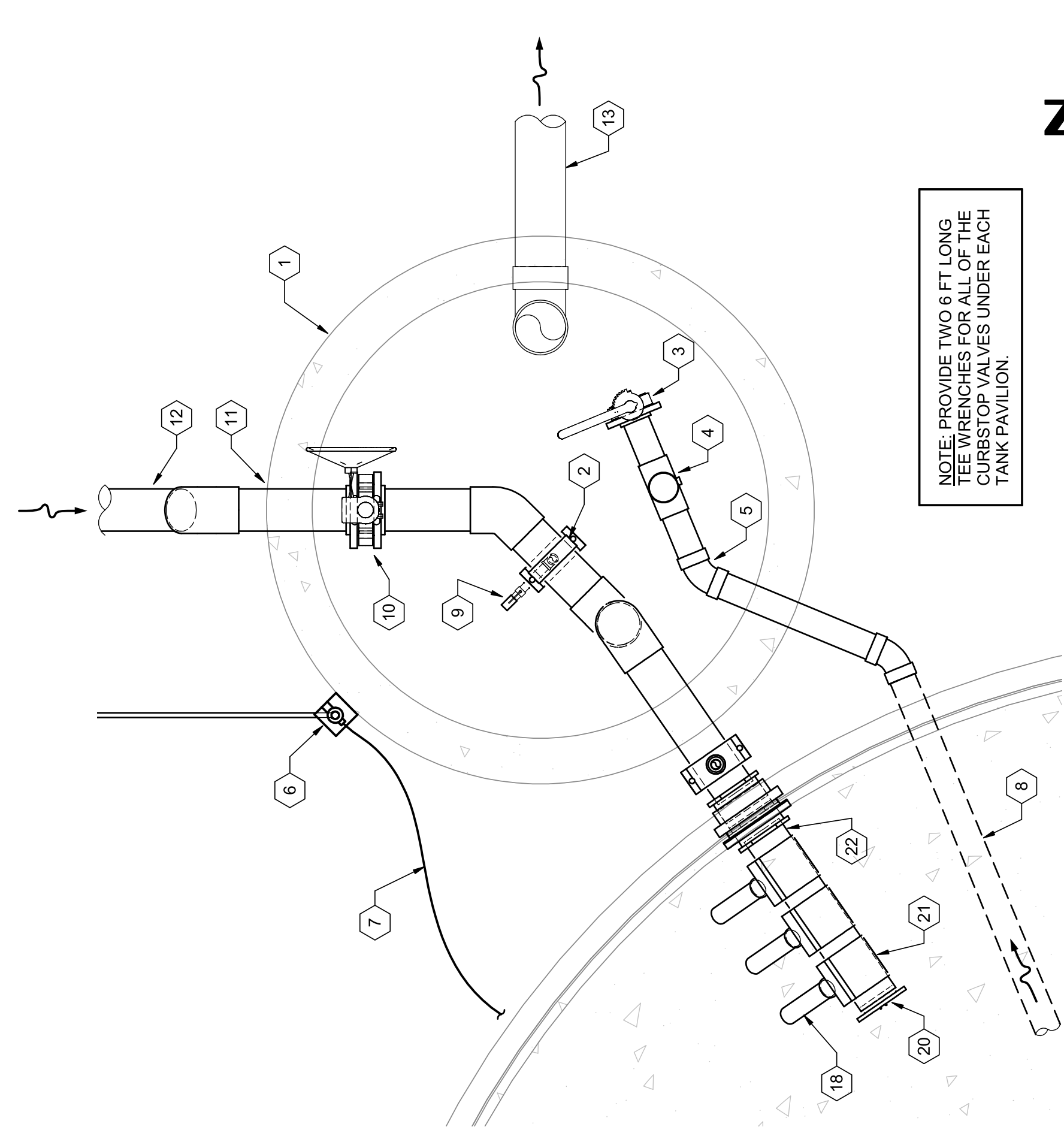
Digitally signed by Jeffrey K. Chandler, Jr.
Date: 2023.07.14 17:27:02-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

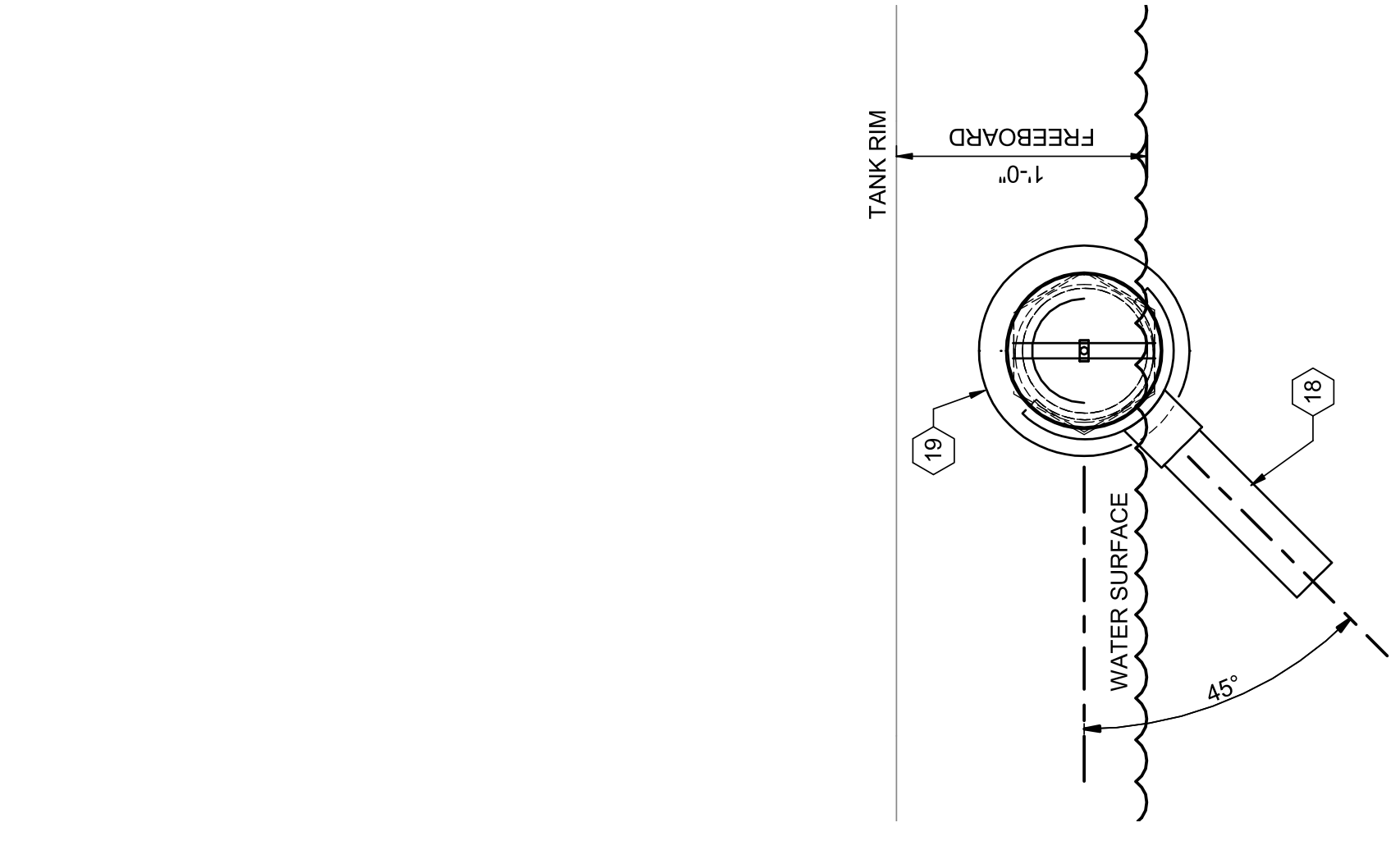
UPPER PAVILION TANK SECTIONS

ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

FILENAME	10353741-02D.rvt
SCALE	3/4" = 1'-0"



1 ENLARGED UPPER PAVILION VALVE BASIN PLAN
 0' 6" 1' 2' 3/4" = 1'-0"
 02D-407

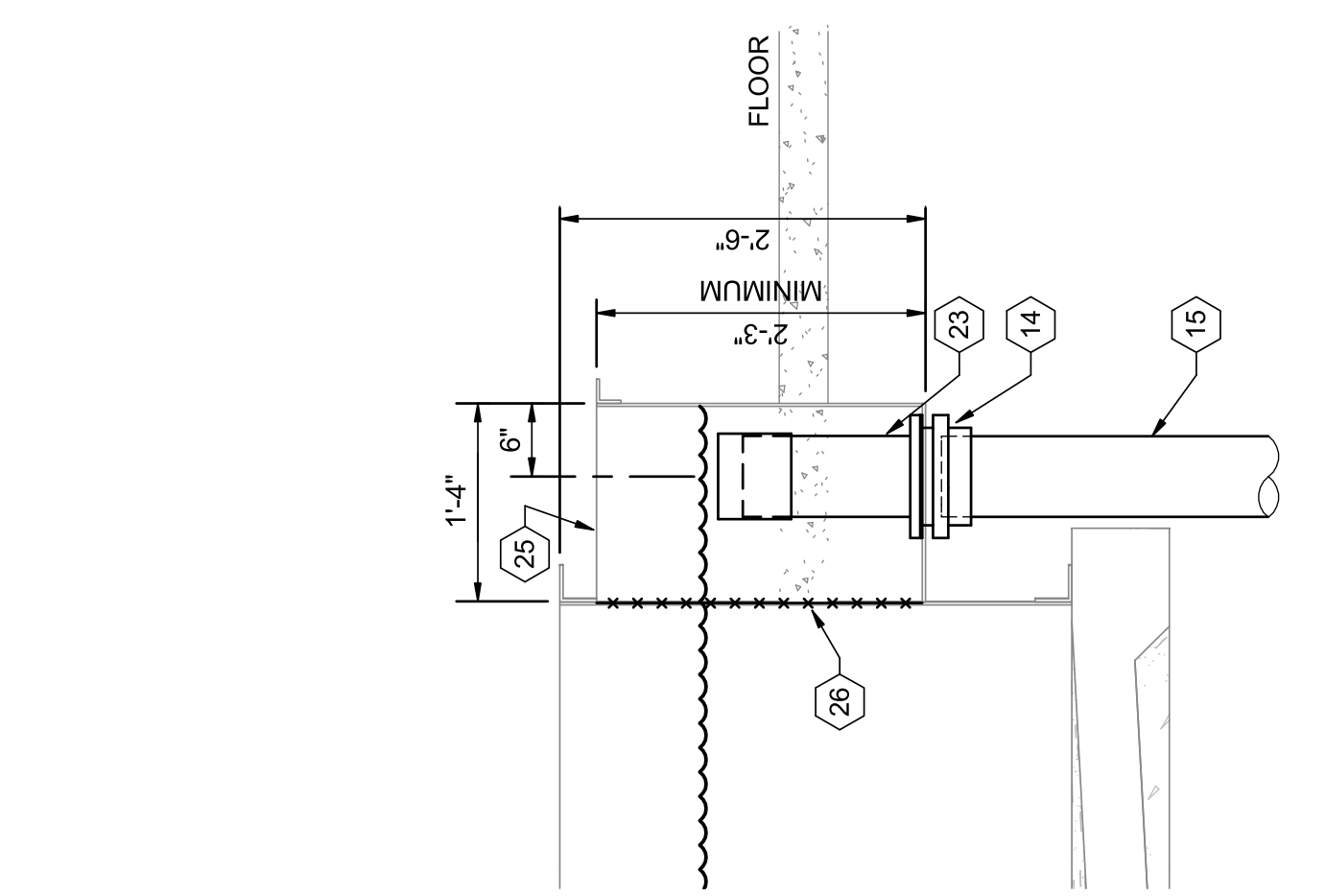


2 SUPPLY HEADER END SECTION
 0' 6" 1' 2' 3/4" = 1'-0"
 02D-407

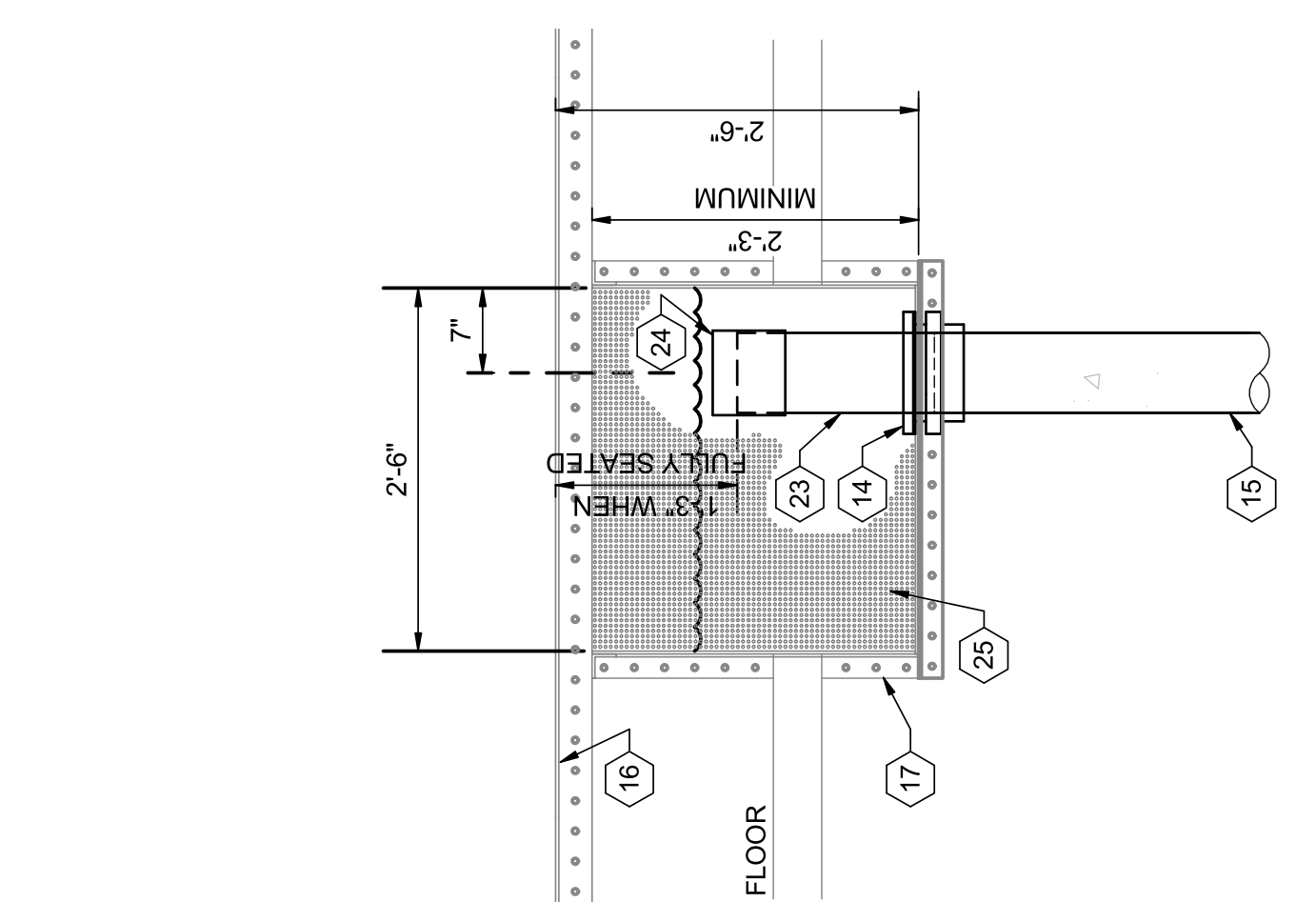
- KEYED NOTES** (#)
- 1 TYP. 5'-0" ID VALVE BASIN
 - 2 SCH 40 PVC PIPE WITH METAL SERVICE SADDLE WITH FEMALE THREADED 3/4" OUTLET DOWN. TURN CURBSTOP VALVE WITH GALV. STEEL STREET EL.
 - 3 KNIFE GATE VALVE FOR DRAINING TANK
 - 4 TEE CLOSE TO BEND WITH STANDPIPE FOR OVERFLOW/LEVEL CONTROL
 - 5 45 DEGREE BEND CLOSE TO WALL
 - 6 OXY METER
 - 7 1/4" HOSE TO OXYGEN DIFFUSER
 - 8 3" DRAIN & OW FROM FISH TANK
 - 9 CURBSTOP VALVE WITH SEMI-PERMANENT SQUARE OPERATOR FOR WINTERIZATION/DRAIN/SEDIMENT FLUSH
 - 10 BUTTERFLY VALVE (FISH TANK SUPPLY VALVE)
 - 11 DUCTILE IRON PIPE THRU LINKAGE SEAL
 - 12 5" SUPPLY BRANCH FROM 14" MWS SUB-MAIN
 - 13 6" WDW
 - 14 PVC BULKHEAD/TANK ADAPTER (SOCKET x SOCKET)
 - 15 6" RSW CONTINUE TO 14" RSW MAIN
 - 16 TANK TOP FLANGE
 - 17 SIDE BOX FLANGE
 - 18 9' LENGTH OF 2" SCH 40 PVC
 - 19 TANK ADAPTER: SCH 80 PVC BULKHEAD WITH AT LEAST 8.75" O.D. BODY (FPT TOWARD TANK)

D

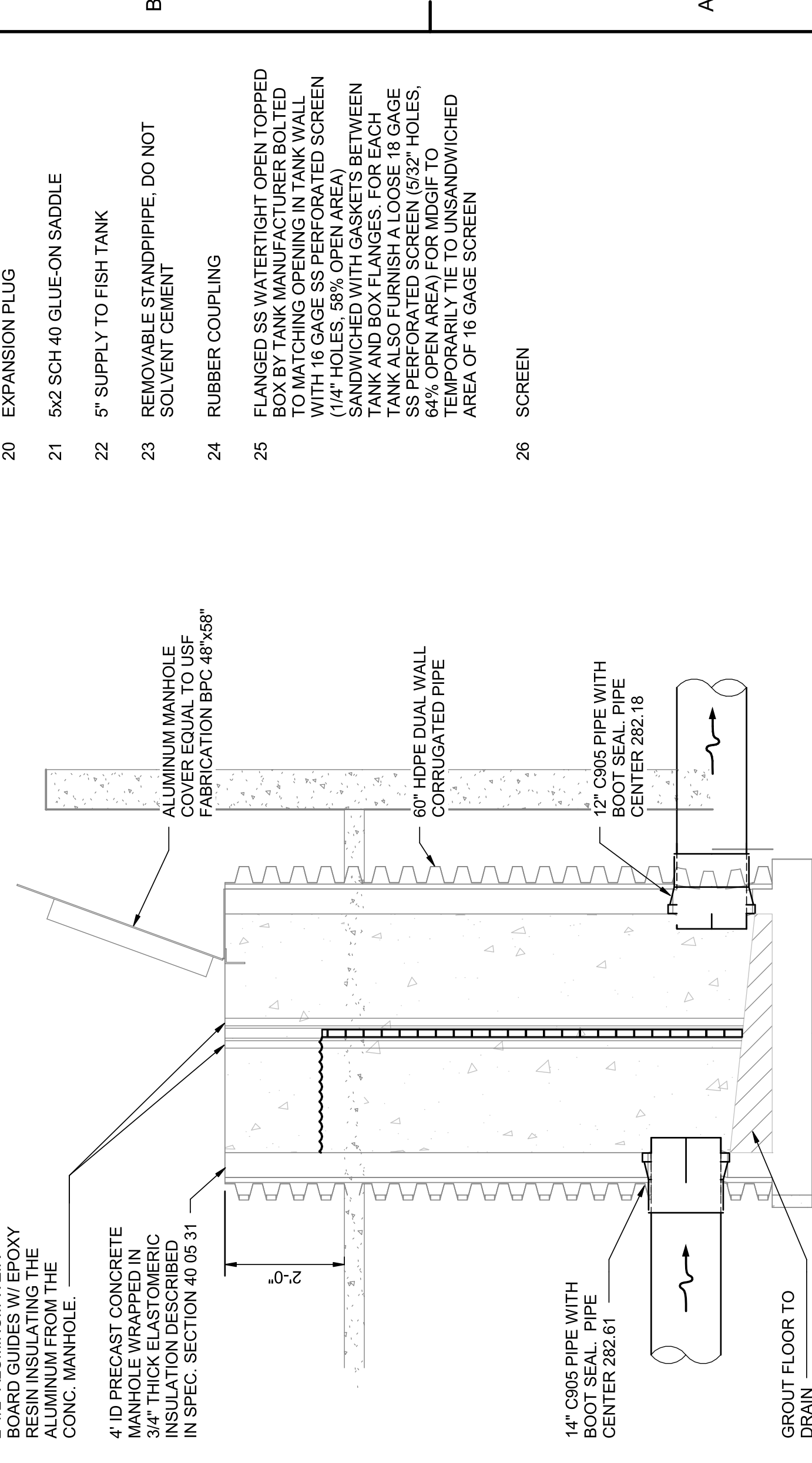
C



4 TANK OVERFLOW SECTION
 0' 6" 1' 2' 3/4" = 1'-0"
 02D-107



3 TANK OVERFLOW DETAIL
 0' 6" 1' 2' 3/4" = 1'-0"
 02D-407

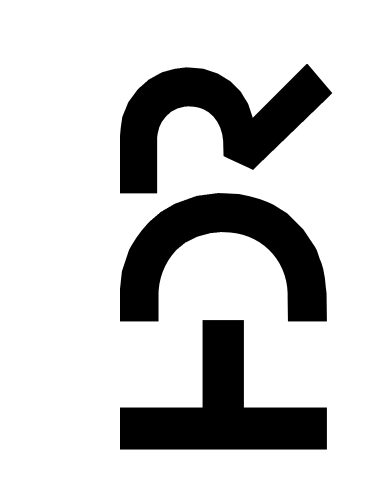


5 WATER PRIORIZATION WEIR STRUCTURE SECTION
 0' 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26'
 NOT TO SCALE
 02D-407

- 20 EXPANSION PLUG
- 21 5x2 SCH 40 GLUE-ON SADDLE
- 22 5" SUPPLY TO FISH TANK
- 23 REMOVABLE STANDPIPE, DO NOT SOLVENT CEMENT
- 24 RUBBER COUPLING
- 25 FLANGED SS WATERTIGHT OPEN TOPPED BOX BY TANK MANUFACTURER BOLTED TO MATCHING OPENING IN TANK WALL WITH 1/4" HOLES. 58% OPEN AREA SANDWICHED WITH GASKETS BETWEEN TANK AND BOX FLANGES. FOR EACH TANK ALSO FURNISH A LOOSE 18 GAGE SS PERFORATED SCREEN (5/32" HOLES, 64% OPEN AREA) FOR MDSIF TO TEMPORARILY TIE TO UNSANDWICHED AREA OF 18 GAGE SCREEN
- 26 SCREEN

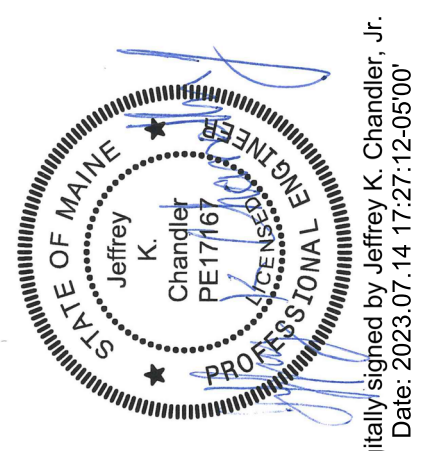
B

A



PROJECT MANAGER ANDREW GURSKI

CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER



Digitally signed by Jeffrey K. Chandler, Jr.
 Date: 2023.07.14 17:27:12-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

UPPER PAVILION ENLARGED PLAN & DETAILS

ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

1

2

3

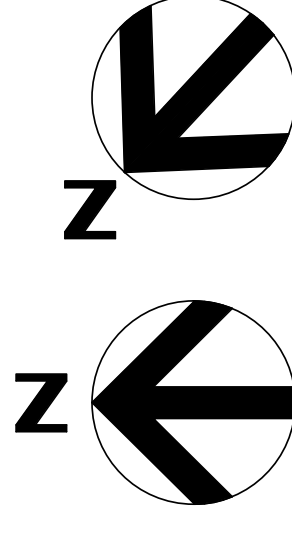
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5

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7

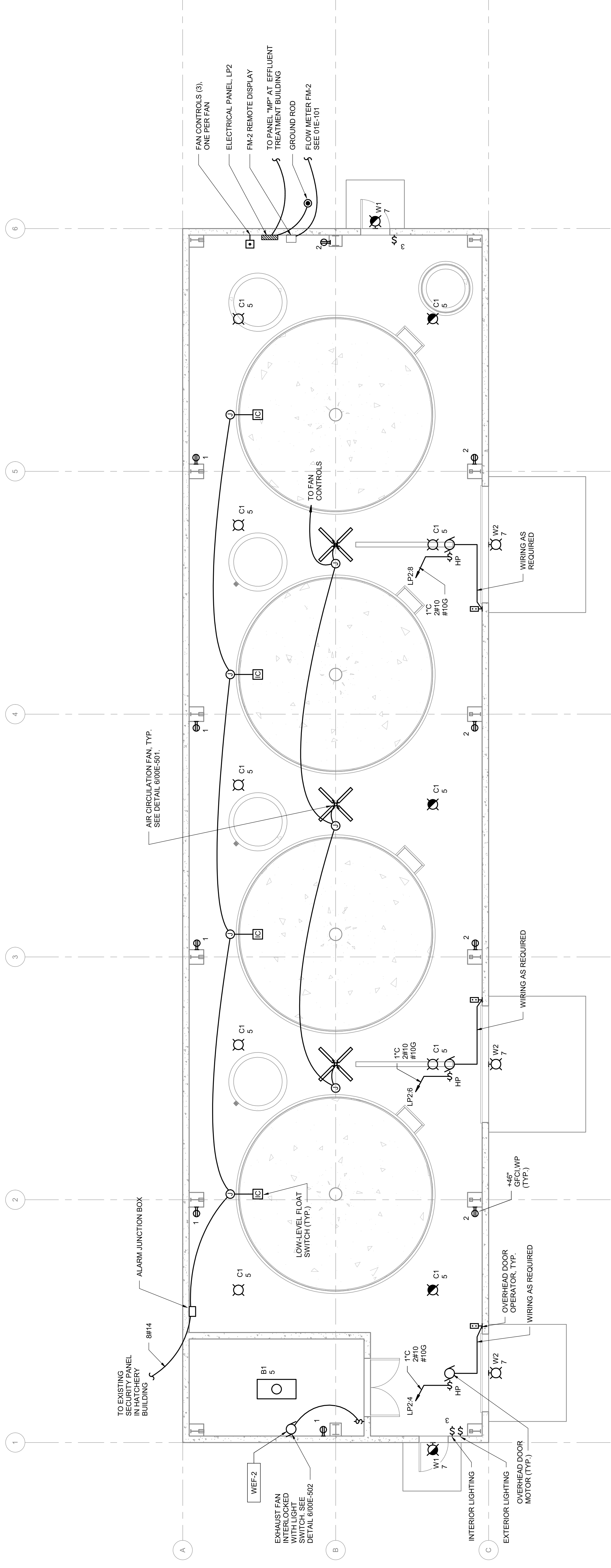
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PLAN NORTH TRUE NORTH

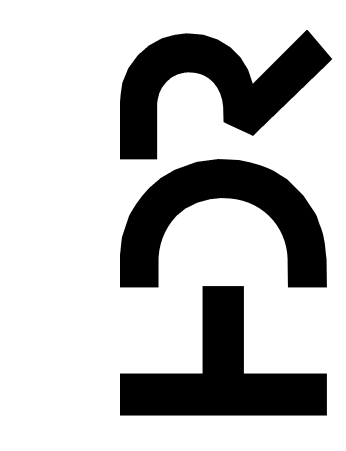
GENERAL NOTE:

- 1. LUMINAIRES INDICATED AS EMERGENCY SHALL REMAIN ON AT ALL TIMES (NOT SWITCHED).

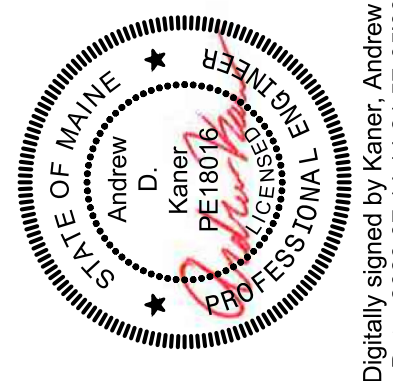


UPPER PAVILION - ELECTRICAL PLAN

0' 2' 4' 8' 3/16" = 1'-0"



PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER



Digitally signed by Kaner, Andrew D
Date: 2023.07.14 14:21:57-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

UPPER PAVILION ELECTRICAL PLAN

ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

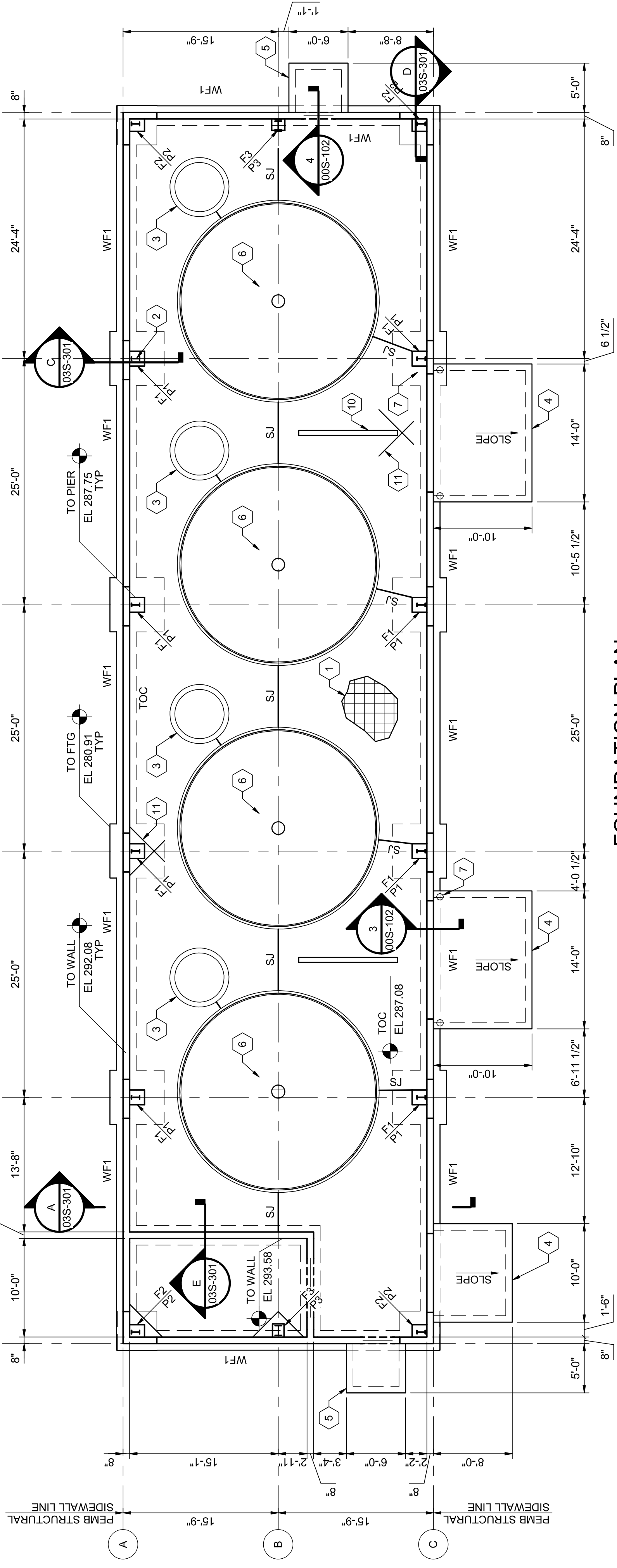
PROJECT NUMBER	10357686
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FILENAME 10357686-02-E.rvt
SCALE 3/16" = 1'-0"

SHEET 02E-101

1 2 3 4 5 6 7 8

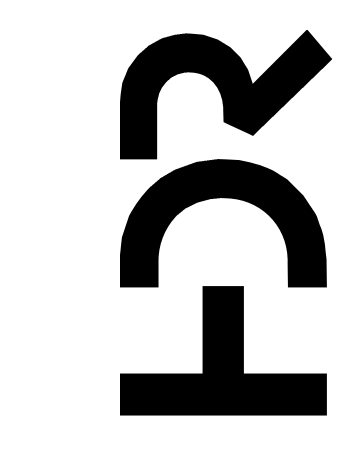
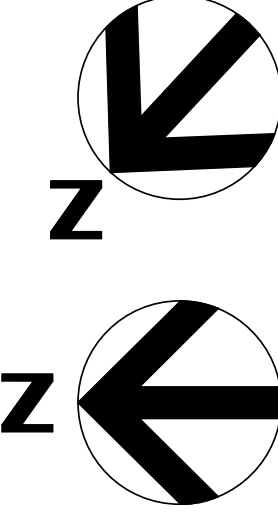


FOUNDATION PLAN
1/8" = 1'-0"

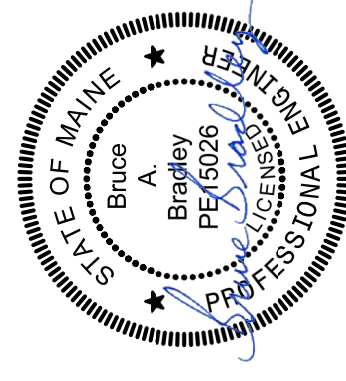
FOOTING SCHEDULE - TANK PAVILION					
TYPE	SIZE	REINFORCEMENT	T.O. FOOTING ELEVATION	T.O. PIER ELEVATION	REMARKS
F1	5'-6"x5'-6"x1'-2"	(7)#6 EACH WAY BOTTOM	280.91	289'	SEE DETAIL 103S-302
F2	4'-0"x4'-0"x1'-2"	(5)#6 EACH WAY BOTTOM	280.91	289'	SEE DETAIL 103S-302
F3	3'-0"x3'-0"x1'-2"	(4)#6 EACH WAY TOP & BOTTOM	280.91	289'	SEE DETAIL 103S-302
WF1	2'-0"x1'-0"x CONT.	(3)#6 CONTINUOUS	280.91	NA	SEE DETAIL 103S-302

1 FOOTING SCHEDULE
NOT TO SCALE

- GENERAL NOTES:**
- SEE SHEET 00S-001 FOR GENERAL STRUCTURAL NOTES.
 - SEE 00S-100 SERIES SHEETS FOR TYPICAL STRUCTURAL DETAILS.
 - COLUMNS BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
 - REFER TO ARCHITECTURAL PROCESS, MECHANICAL PLUMBING, ELECTRICAL, AND DRAWINGS OF OTHER TRADES FOR LOCATIONS OF OPENINGS, DEPRESSIONS, FLOOR SLOPES AND DRAINS.
- KEYNOTES:** (#)
- 4" CONCRETE SLAB WITH #4@12" OC, EW MID-DEPTH IN SLAB OVER COMPACTED CLEAN FREE-DRAINING GRANULAR FILL.
 - COLUMNS BY METAL BUILDING MANUFACTURER (MBM).
 - PRECAST WATER CONTROL STRUCTURE, SEE PLUMBING DRAWINGS.
 - CONCRETE APPROACH SLAB AT OVERHEAD DOOR, SEE DETAIL 300S-102.
 - CONCRETE STOOP, SEE DETAIL 400S-102. STOOP GRADE BEAM SHALL BE TIED INTO PERIMETER GRADE BEAM.
 - SEE SHEET 03S-103 FOR TANK SLAB.
 - 8" DIAMETER SCHEDULE 40 STEEL PIPE BOLLARD FILLED WITH CONCRETE (PAINT YELLOW), TYPICAL OF 8. SEE DETAIL 400S-502.
 - PROVIDE 2'-0"x2'-0" #4 BENT BAR CAST MID-DEPTH OF SLAB AT ALL LOCATIONS WHERE SLAB EXTENDS OVER FOUNDATION WALL. SEE DETAILS.
 - PROVIDE #4x8" LONG @ 12" OC CAST MID-DEPTH IN SLAB AT OVERHEAD DOOR LOCATIONS WHERE SLAB EXTENDS OVER FOUNDATION WALL. SEE DETAILS.
 - PREMOLDED TRENCH DRAIN, SEE PLUMBING DRAWINGS.
 - (2) #4x5'-0" LONG CAST IN SLAB AT ALL RE-ENTRANT CORNERS. PLACE BARS 2" FROM CORNER. BEND BARS AS NECESSARY FOR PROPER PLACEMENT.



PROJECT MANAGER	ANDREW GURSKI
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STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

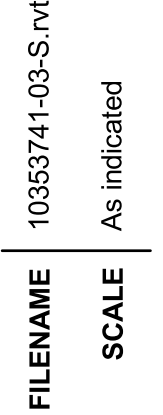
LOWER PAVILION FOUNDATION PLAN

ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

PROJECT NUMBER 10357686

Digitally signed by Bruce Bradley
Date: 2023.07.14 16:02:05-0400
Bruce Bradley

SCALE As Indicated



SHEET 03S-101

1

2

3

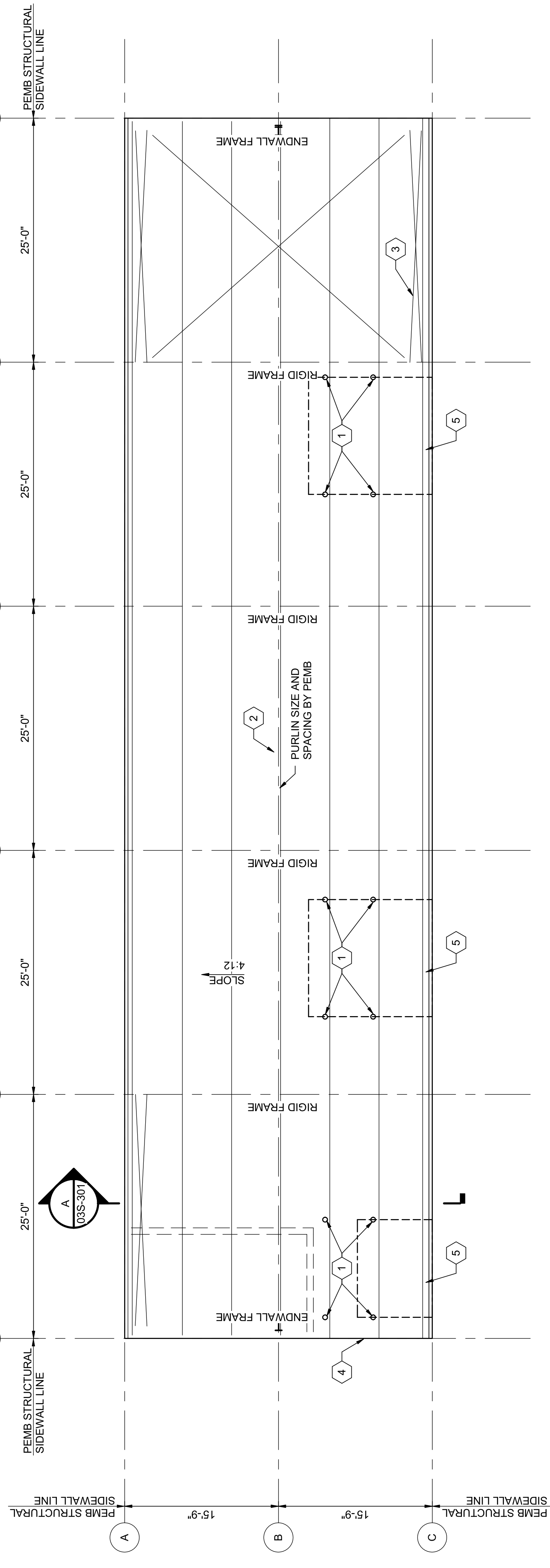
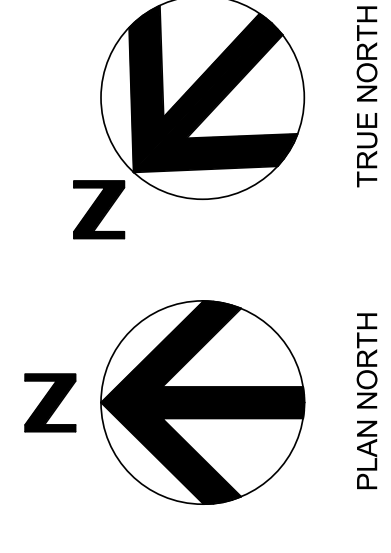
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5

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7

8



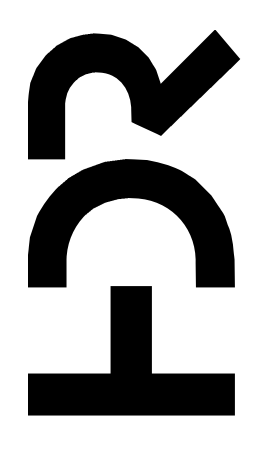
GENERAL NOTES:

1. SEE SHEET 00S-001 FOR DESIGN STANDARDS AND BUILDING CODE INFORMATION.
2. SEE SHEET 00S-001 FOR DESIGN LOADS.
3. PIER CONFIGURATIONS ARE AS INDICATED ON SHEET 00S-001. THESE CONFIGURATIONS ARE NOT TO BE CONSIDERED COMPATIBLE TO THE DESIGN OF THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SUCH THAT MODIFICATIONS CAN BE MADE PRIOR TO PIER REINFORCEMENT FABRICATION AND CONSTRUCTION.
4. GENERAL ASSUMPTIONS HAVE BEEN MADE BY THE STRUCTURAL ENGINEER FOR THE FOUNDATION DESIGN. THE GENERAL CONTRACTOR AND PEMB SHALL SUBMIT THE FOUNDATION DESIGN FOR REVIEW AND APPROVAL WITH THE FOUNDATIONS SHOWING ADJUSTMENTS MAY BE REQUIRED IN THE FIELD PRIOR TO CONSTRUCTION. ANY CHANGES REQUIRED SHALL BE MADE AT NO ADDITIONAL COST TO THE PROJECT.
5. FRAME REACTIONS AND ANCHOR BOLT SETTING PLAN SHALL BE SUBMITTED TO THE ENGINEER CONCURRENTLY WITH THE FOUNDATION DESIGN FOR REVIEW AND APPROVAL. ANY CHANGES REQUIRED SHALL BE MADE AT NO ADDITIONAL COST TO THE PROJECT.
6. THE PEMB SHALL DESIGN ALL ANCHOR BOLTS. ANCHOR BOLT SIZES SHALL BE FURNISHED TO THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ANCHOR BOLTS.
7. ALL RIGID FRAMES SHALL HAVE PINNED CONNECTIONS TO THE FOUNDATION.
8. COLUMN BASE PLATES SHALL BE LEVELED WITH LEVELING NUTS OR SHIMS AND GROUTED SOLID WITH 2" NON-SHRINK GROUT.
9. PEMB AND CONTRACTOR SHALL PROVIDE BRACINGS AS NECESSARY TO MAINTAIN FLAT AND LEVEL GIRTS DURING BUILDING ERECTION.

KEYNOTES: (#)

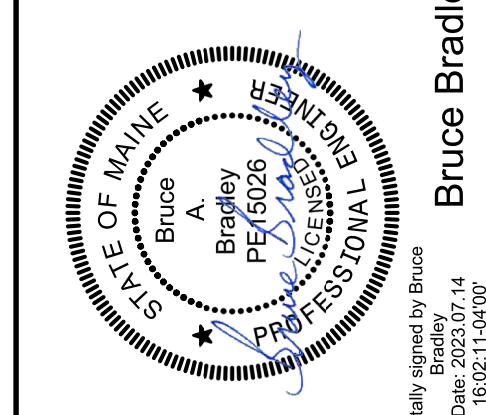
1. DENOTES APPROXIMATE POINT LOAD LOCATIONS FOR OVERHEAD DOOR TRACK. GENERAL CONTRACTOR SHALL PROVIDE THE WEIGHT AND LOCATION WITH THE ENGINEERED METAL BUILDING MANUFACTURER.
2. PURLIN SIZE, SPACING AND MATERIAL PROVIDED BY PEMB.
3. ANTICIPATED LOCATION OF CROSS BRACING IN ROOF AND WALLS.
4. MANDOOOR FRAMING PROVIDED AND INSTALLED BY PEMB.
5. OVERHEAD DOOR FRAMING PROVIDED AND INSTALLED BY PEMB.

ROOF FRAMING PLAN
1/8" = 1'-0"



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ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

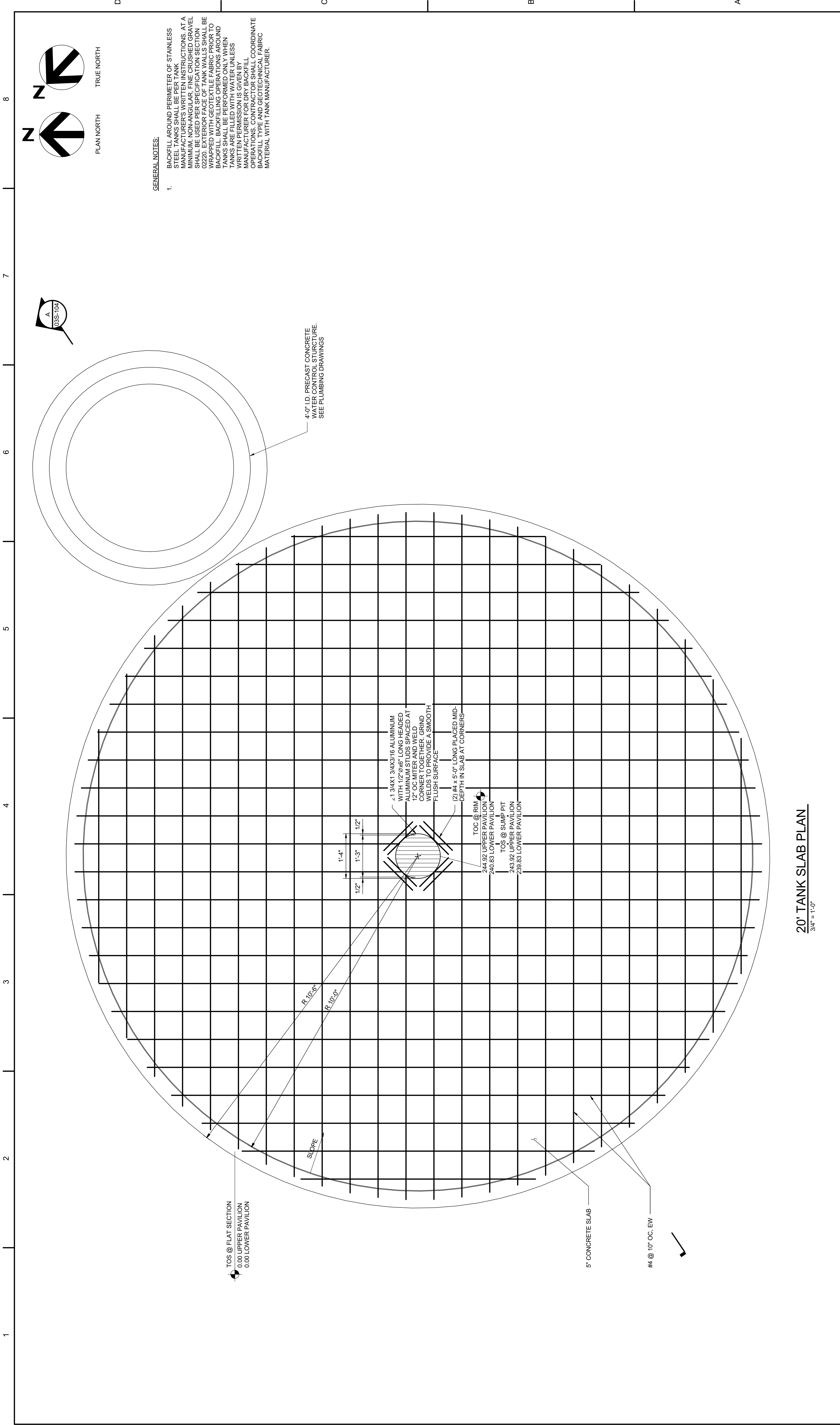
ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	



IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

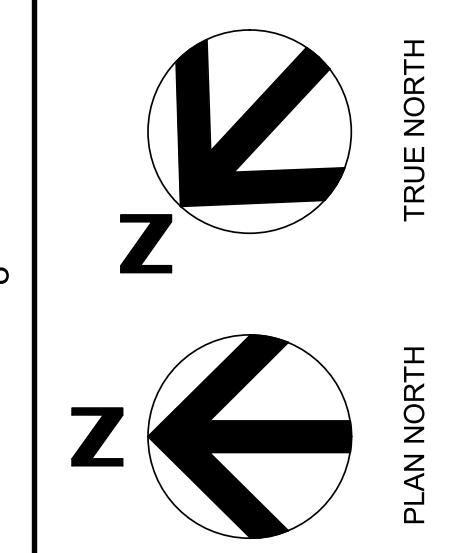
LOWER PAVILION FRAMING PLAN

FILENAME | 1035741-03S.rvt
SCALE | 1/8" = 1'-0"
SHEET | 03S-102



GENERAL NOTES:

- BACKFILL AROUND PERIMETER OF STAINLESS STEEL TANKS SHALL BE PER TANK MANUFACTURER'S WRITTEN INSTRUCTIONS. AT A MINIMUM, NON-ANGULAR, FINE CRUSHED GRAVEL SHALL BE USED FOR BACKFILL. BACKFILL SECTION SHALL BE COVERED WITH GEOTEXTILE FABRIC PRIOR TO BACKFILL. BACKFILLING OPERATIONS AROUND TANKS SHALL BE PERFORMED ONLY WHEN TANKS ARE FILLED WITH WATER UNLESS WRITTEN PERMISSION IS GIVEN BY MANUFACTURER FOR DRY BACKFILL OPERATIONS. CONTRACTOR SHALL COORDINATE BACKFILL OPERATIONS WITH GEOTEXTILE FABRIC MATERIAL WITH TANK MANUFACTURER.



20' TANK SLAB PLAN
3/4" = 1'-0"

PROJECT MANAGER	ANDREW GURSKI
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

FOR

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

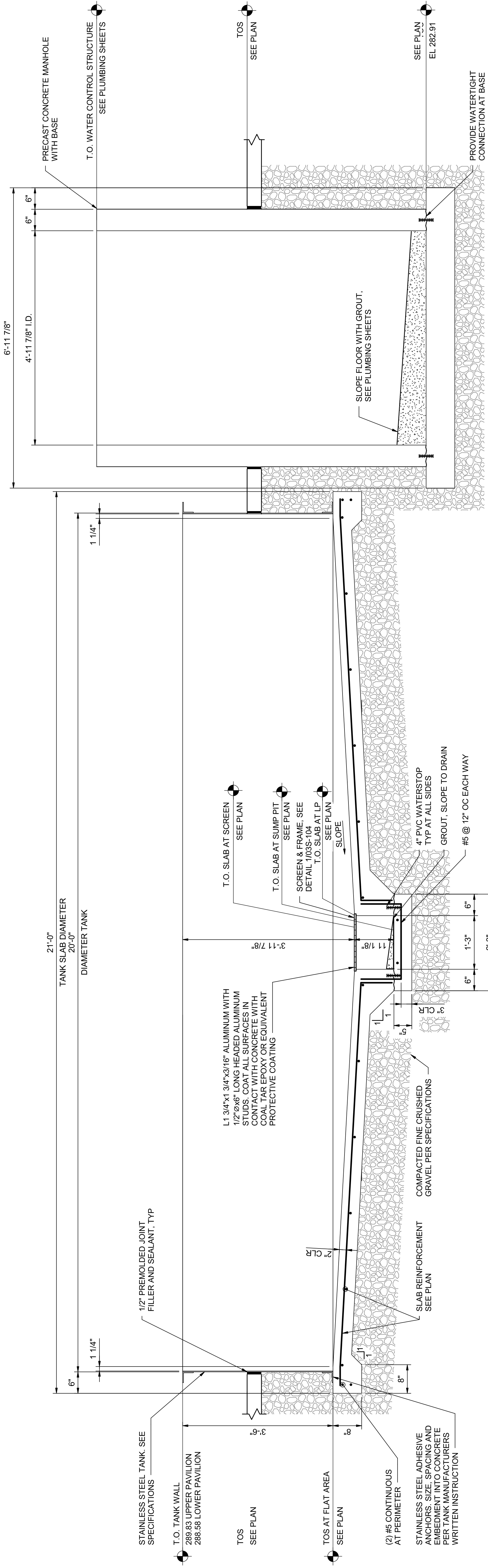
UPPER / LOWER TANK PAVILIONS 20' DIAMETER TANK FOUNDATION

FILENAME: 1035741-03-S.rvt
SCALE: 3/4" = 1'-0"

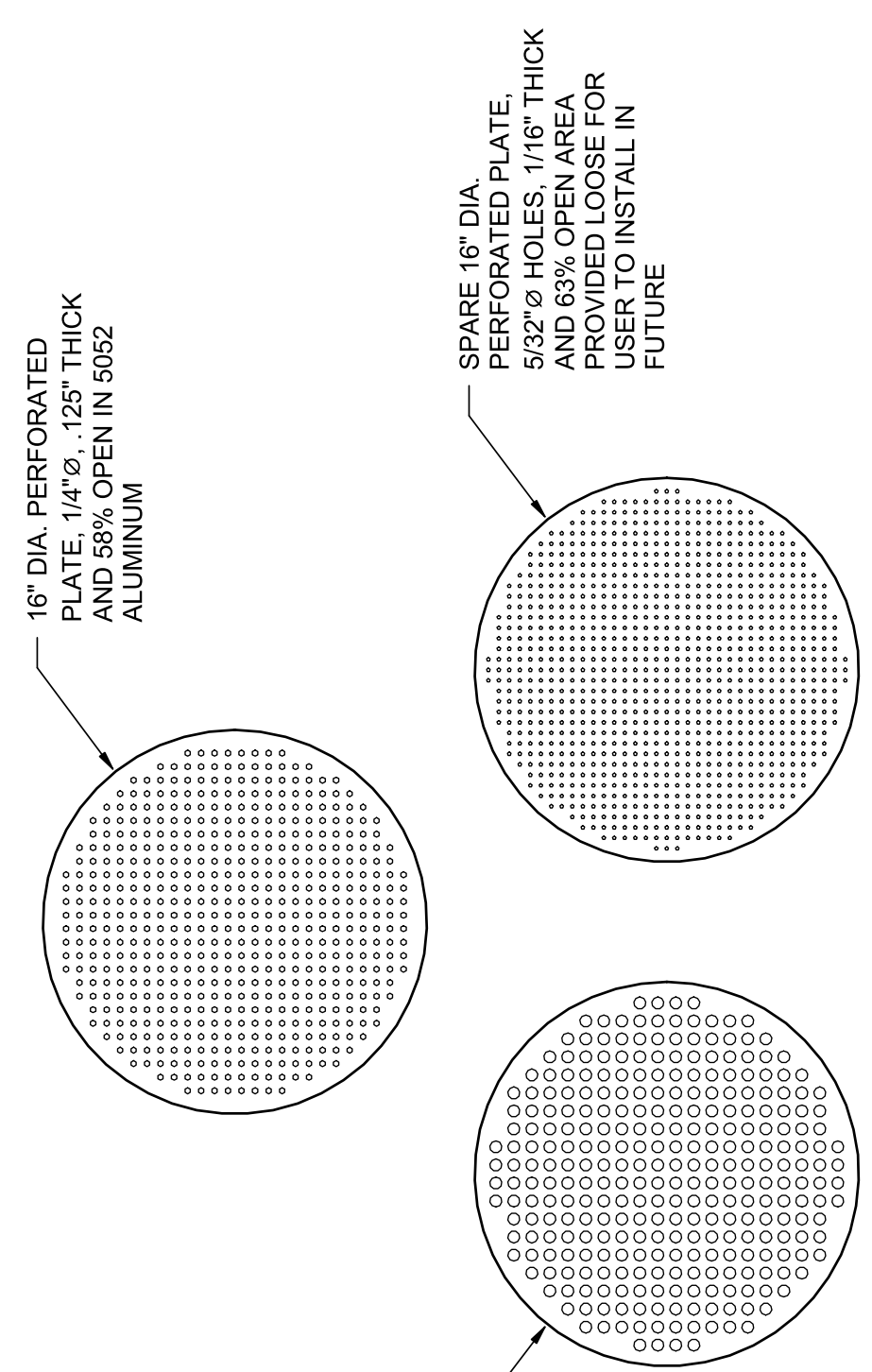
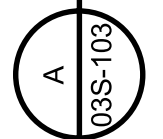
Digitally signed by Bruce Bradley
Date: 2023.07.14 16:02:14-0400
Bruce Bradley

GENERAL NOTES:

1. WATERTIGHT CONNECTION OF TANK TO CONCRETE SLAB SHALL BE DESIGNED AND PROVIDED BY TANK MANUFACTURER. ALL MATERIAL USED FOR ANCHORAGE SHALL BE STAINLESS STEEL.

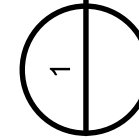


20' DIAMETER TANK SECTION
 $\frac{3/4" = 1'-0"$



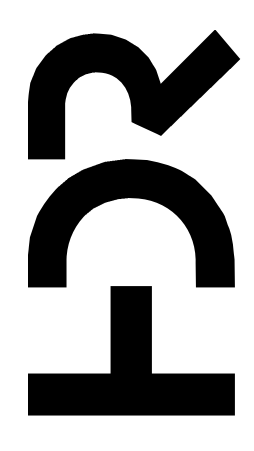
- NOTES:**
1. TOTAL (1) SCREEN REQUIRED AT EACH TANK - 8 SCREENS
 2. SCREENS SHALL BE FABRICATED TO BE FLAT. SCREENS SHALL FIT SMOOTHLY INTO RECESSED CONCRETE RIM WITHOUT BENDING.

SCREEN DETAILS
 $\frac{1}{1 1/2" = 1'-0"$



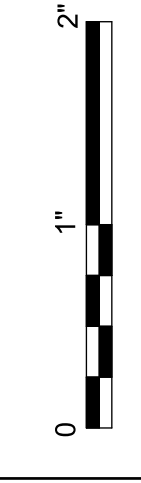
PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

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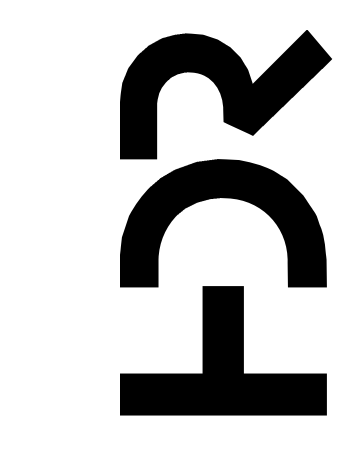
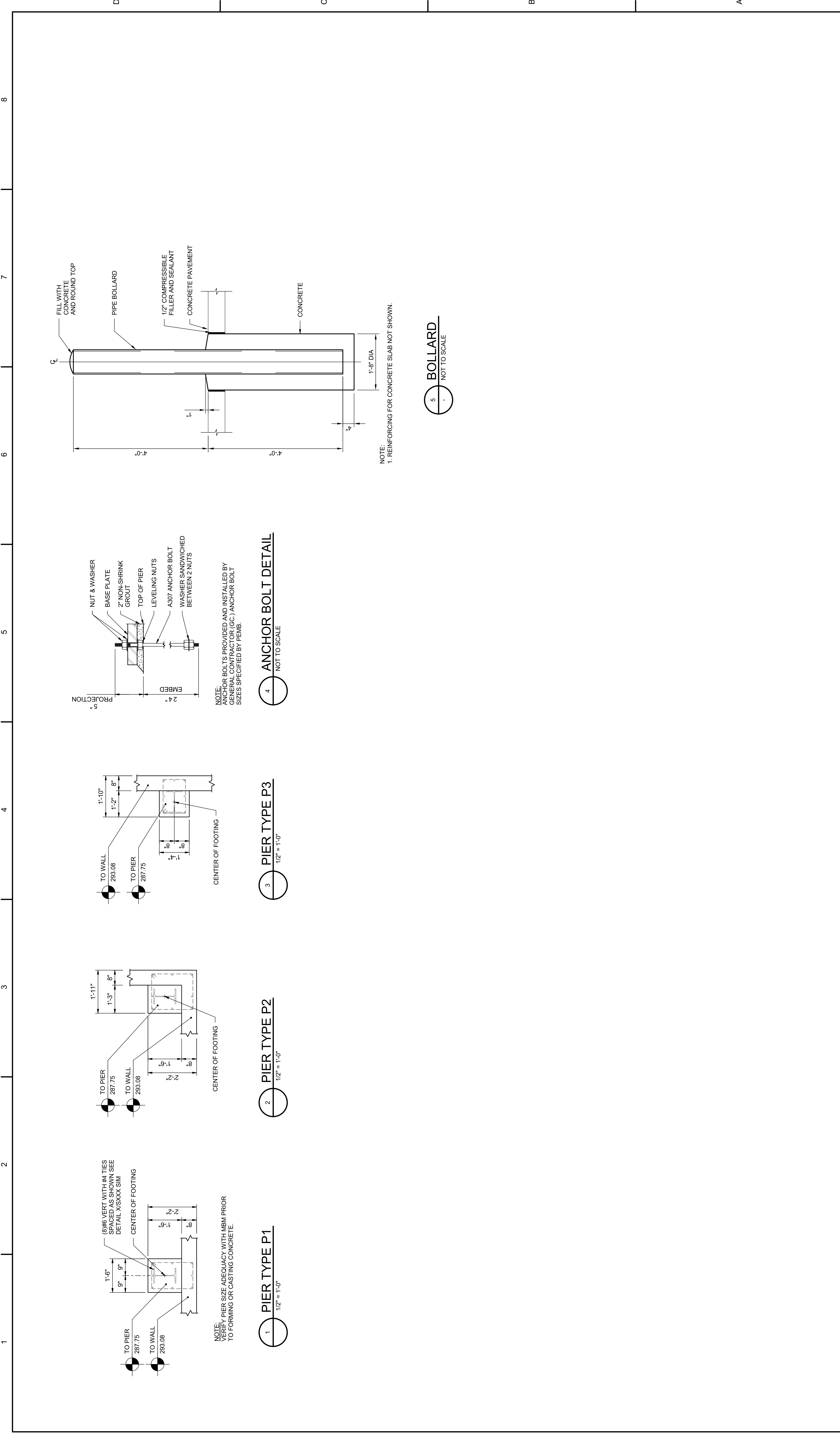
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

**UPPER / LOWER TANK PAVILIONS
 20' DIAMETER TANK FOUNDATION DETAILS**



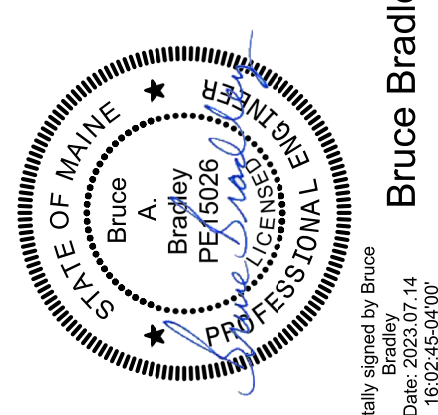
FILENAME | 10353741-03S.rvt
 SCALE | As indicated
 SHEET | **03S-104**

Digitally signed by Bruce Bradley
 Date: 2023.07.14 16:02:30-0400
 Bruce Bradley



ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
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ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



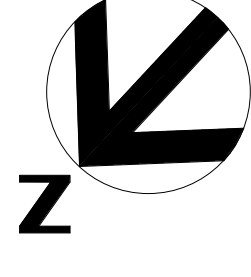
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

LOWER PAVILION SECTIONS

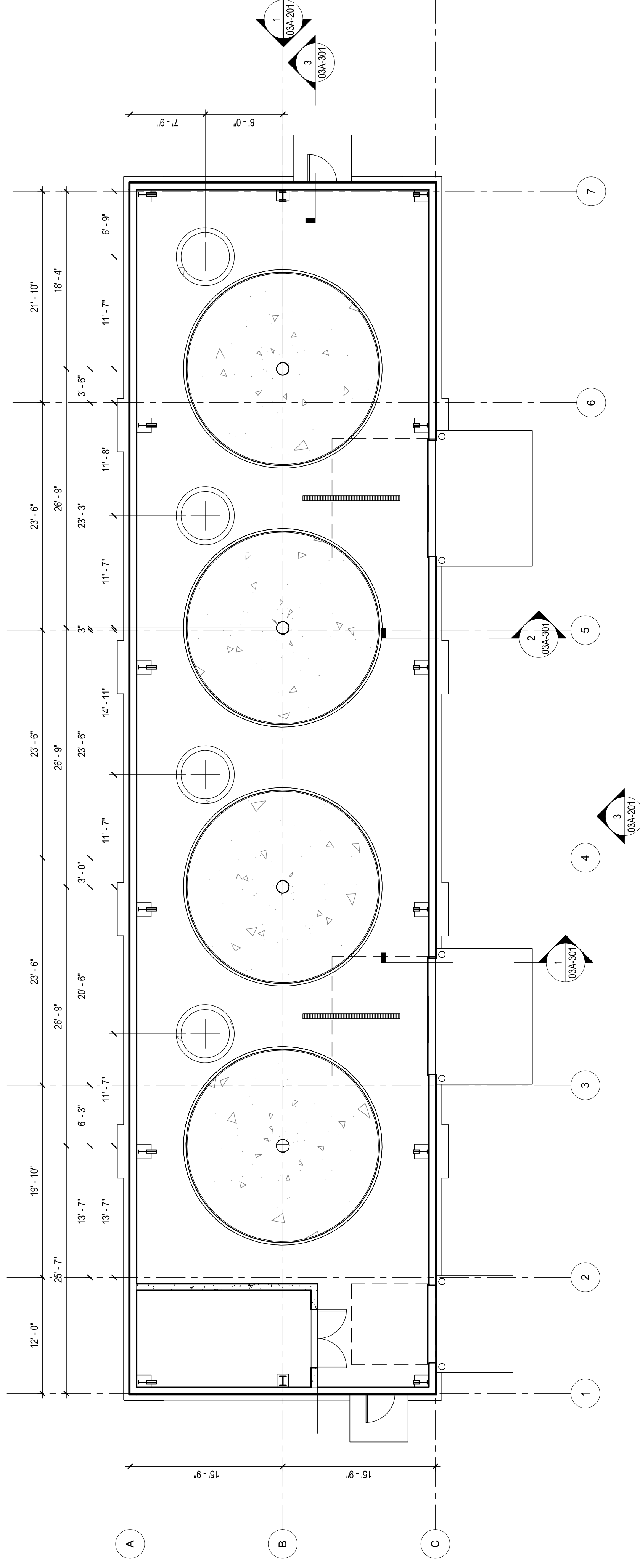
SCALE: 2"
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FILENAME: 10353741-03-S.rvt
SCALE: As Indicated

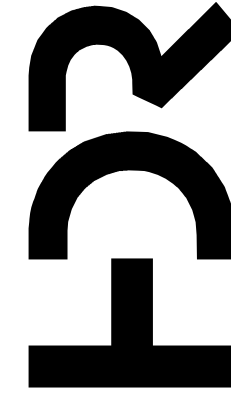
1 2 3 4 5 6 7 8



TRUE NORTH



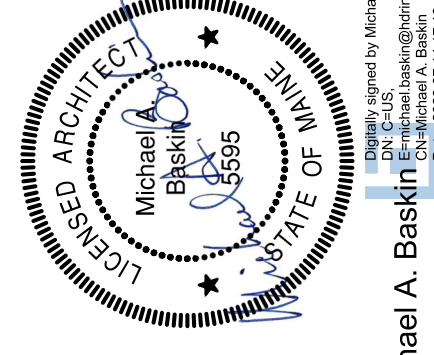
1 PAVILION FLOOR PLAN
1/8" = 1'-0"



PROJECT MANAGER ANDREW GURSKI
 CIVIL J. GAGNON
 STRUCTURAL B. BRADLEY
 ARCHITECTURAL M. BASKIN
 PROCESS J. CHANDLER
 MECHANICAL J. CHANDLER
 ELECTRICAL A. KANER

ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	

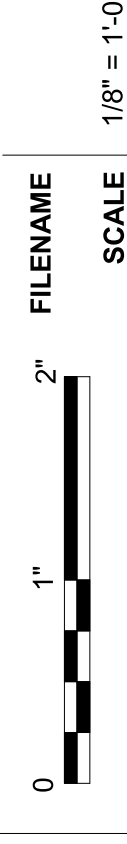
PROJECT NUMBER 10357686



Michael A. Baskin
10357686
03/31/24 12:18:18-0400

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

LOWER PAVILION PLAN



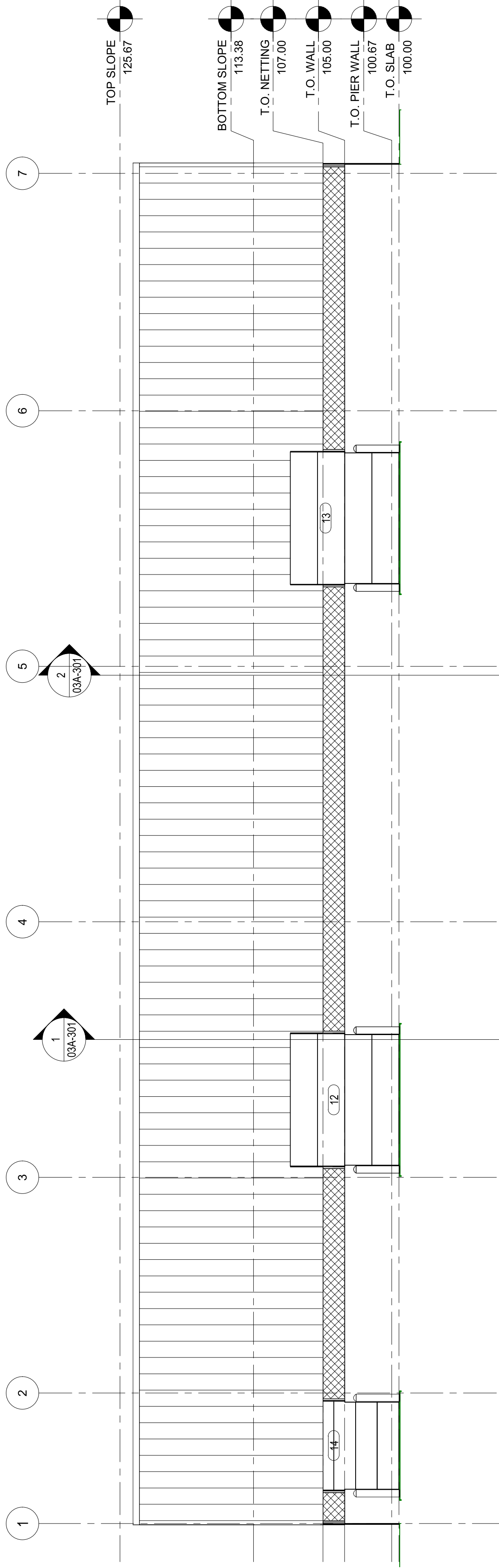
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SCALE

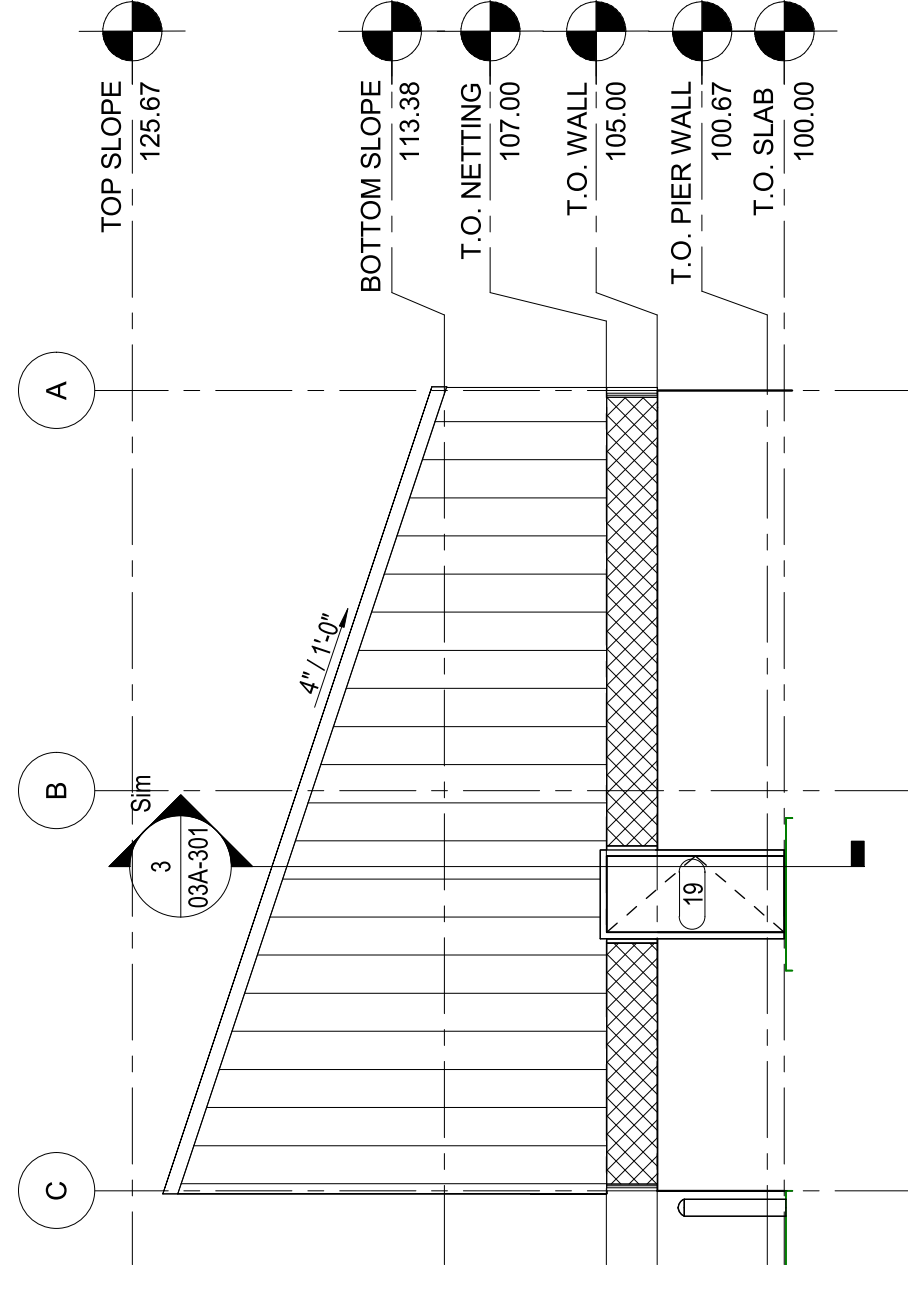
SHEET

03A-101

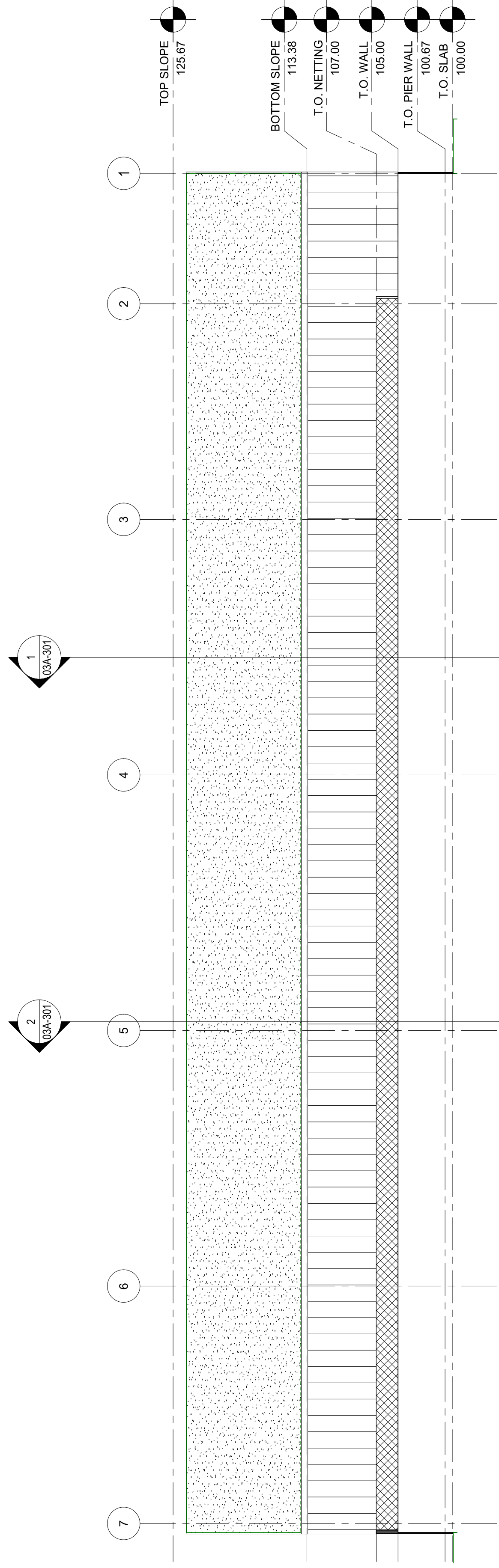
1 2 3 4 5 6 7 8



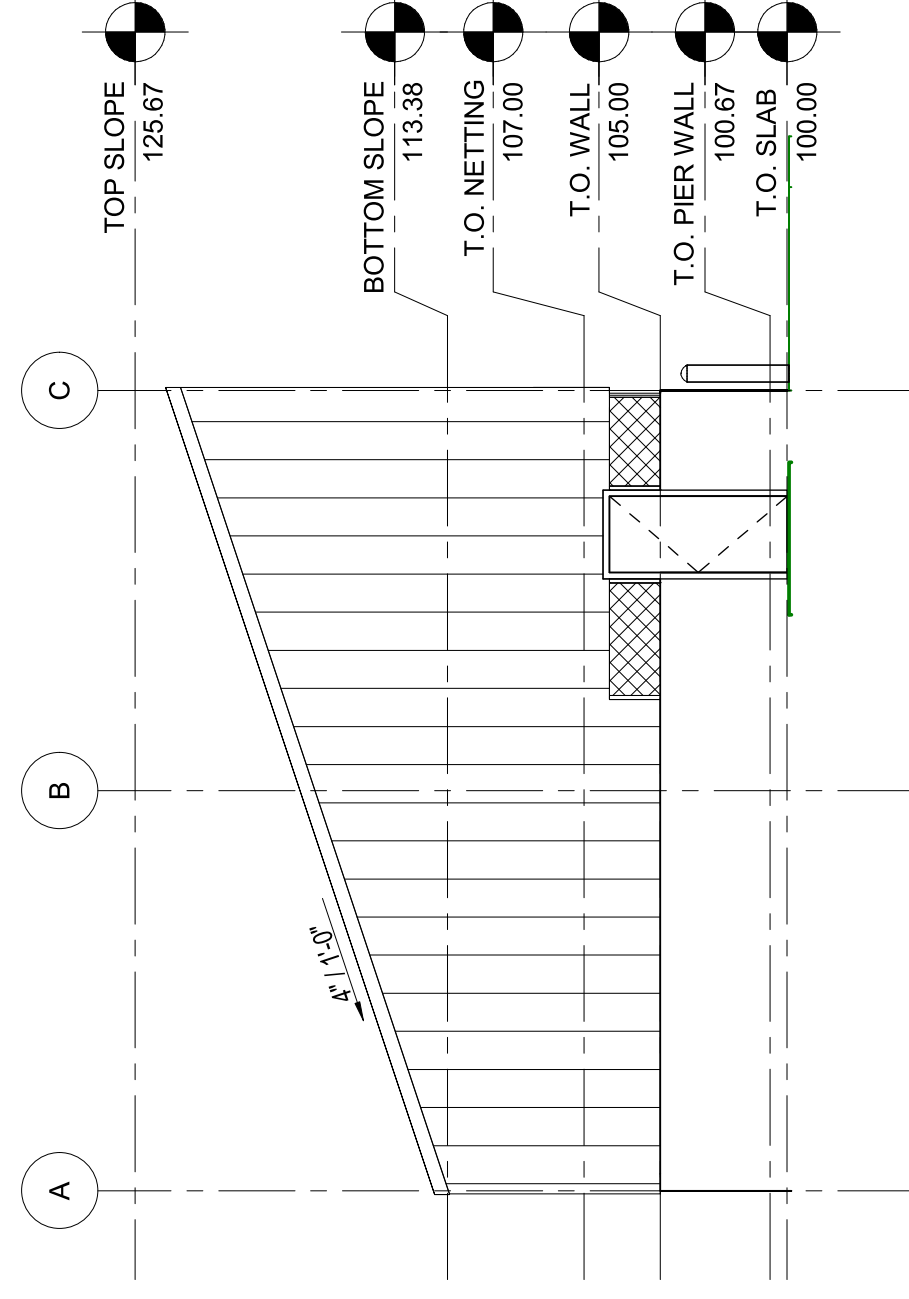
3 PAVILION SOUTH ELEVATION
1/8" = 1'-0"



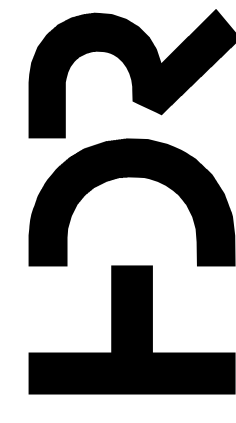
1 PAVILION EAST ELEVATION
1/8" = 1'-0"



2 PAVILION NORTH ELEVATION
1/8" = 1'-0"



4 PAVILION WEST ELEVATION
1/8" = 1'-0"

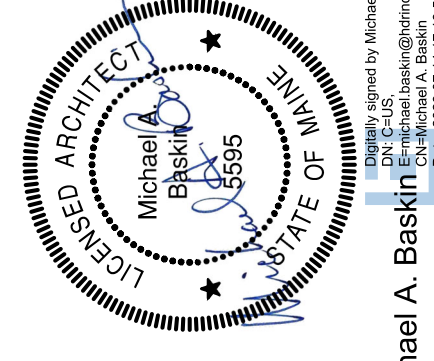


PROJECT MANAGER ANDREW GURSKI

CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER

PROJECT NUMBER 10357686

ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID



Michael A. Baskin
Engineer in Charge with Michael A. Baskin
1000 Main Street, Suite 200
Bangor, ME 04401
Phone: 207.551.1718 Fax: 207.551.1719

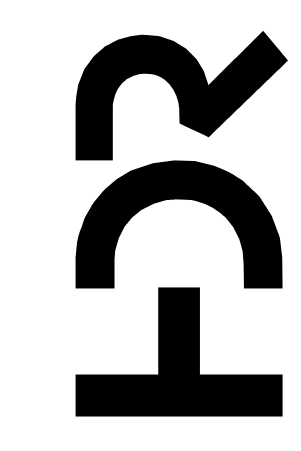
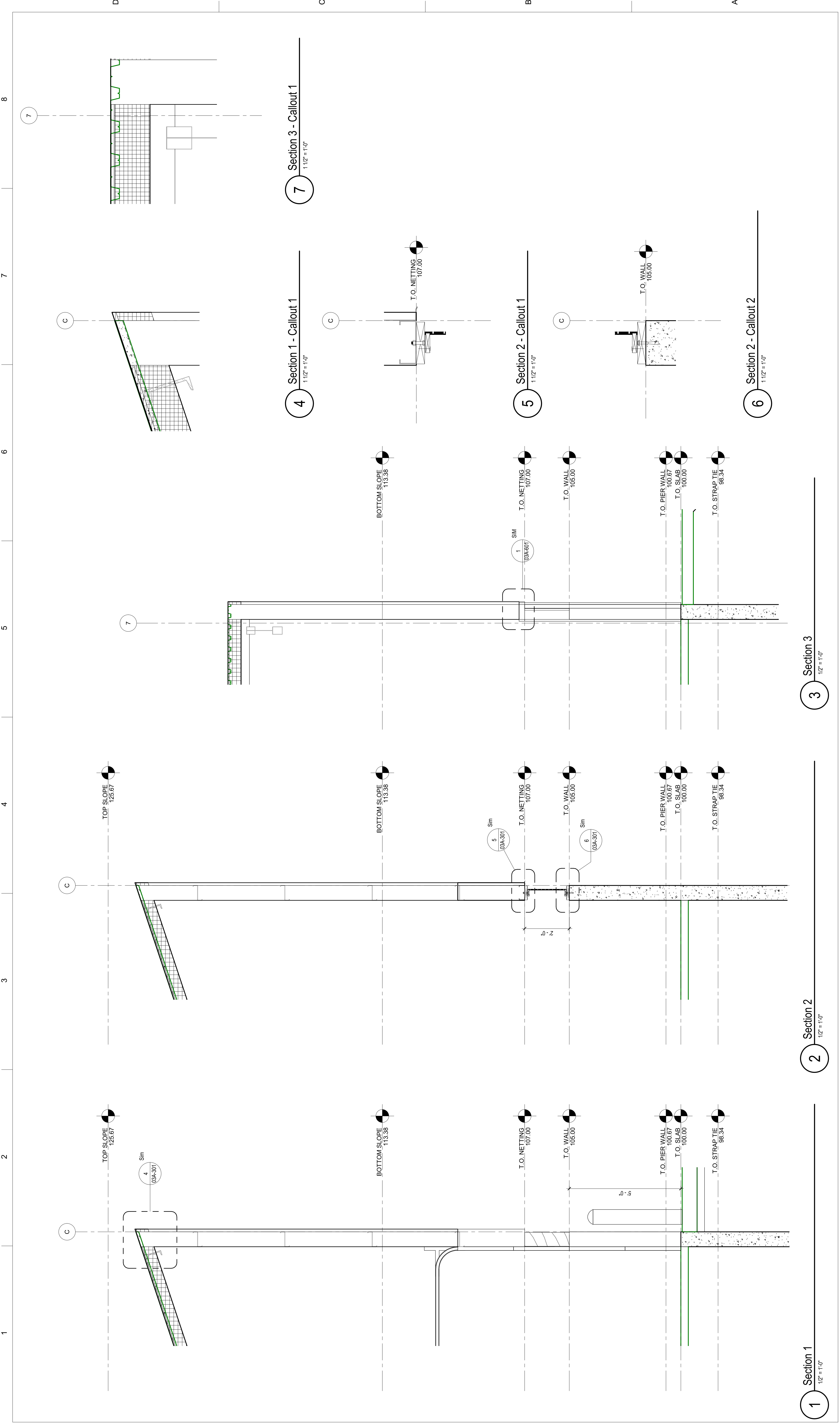
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

PAVILION EXTERIOR ELEVATIONS

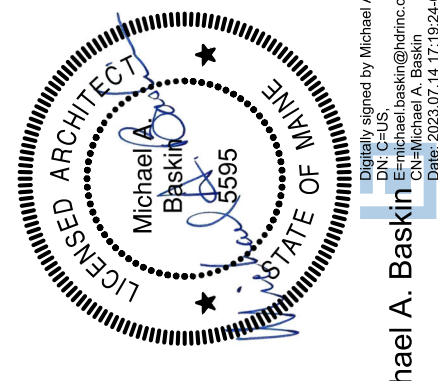
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FILENAME SCALE 1/8" = 1'-0"

SHEET 03A-201



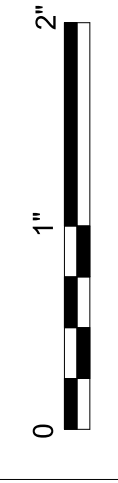
PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
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PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



Michael A. Baskin
Professional Engineer
License No. 5595
State of Maine
Exp. 03/31/24 17:58:49PDT

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

LOWER PAVILION WALL SECTIONS & DETAILS



SCALE As indicated

SHEET **03A-301**

1 Section 1
1/2" = 1'-0"

2 Section 2
1/2" = 1'-0"

3 Section 3
1/2" = 1'-0"

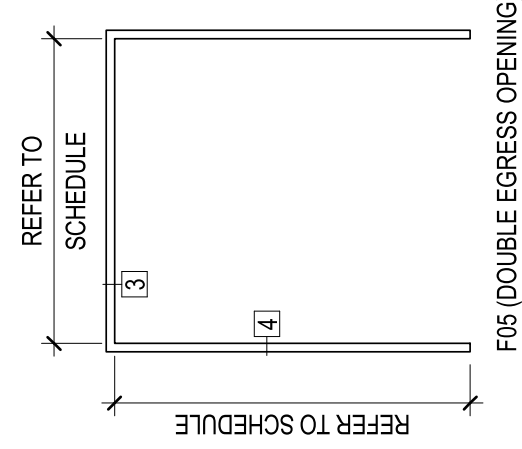
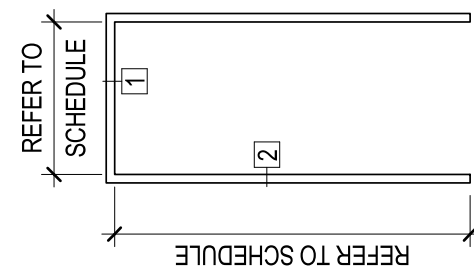
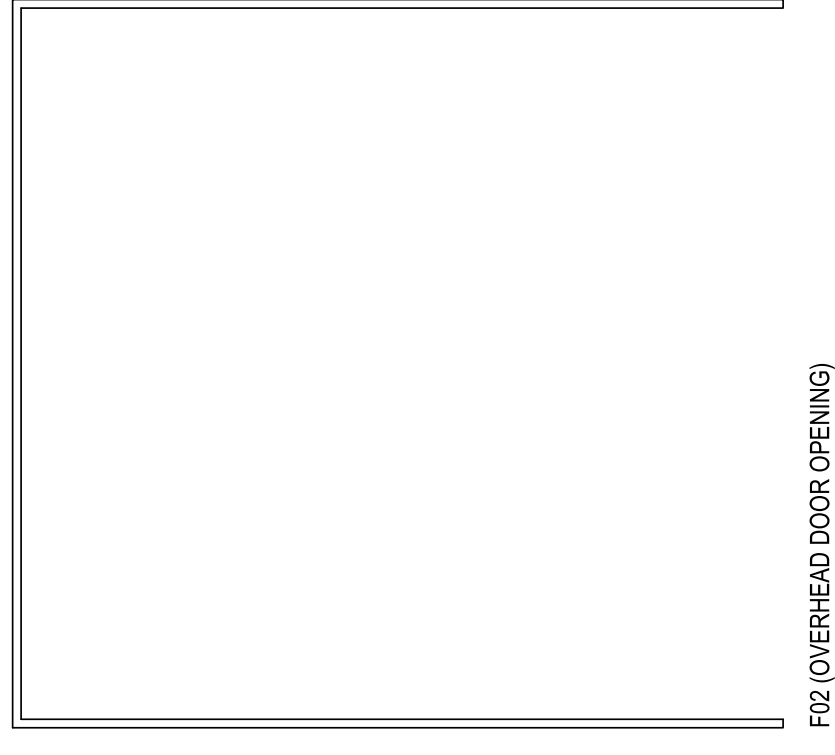
4 Section 1 - Callout 1
1 1/2" = 1'-0"

7 Section 3 - Callout 1
1 1/2" = 1'-0"

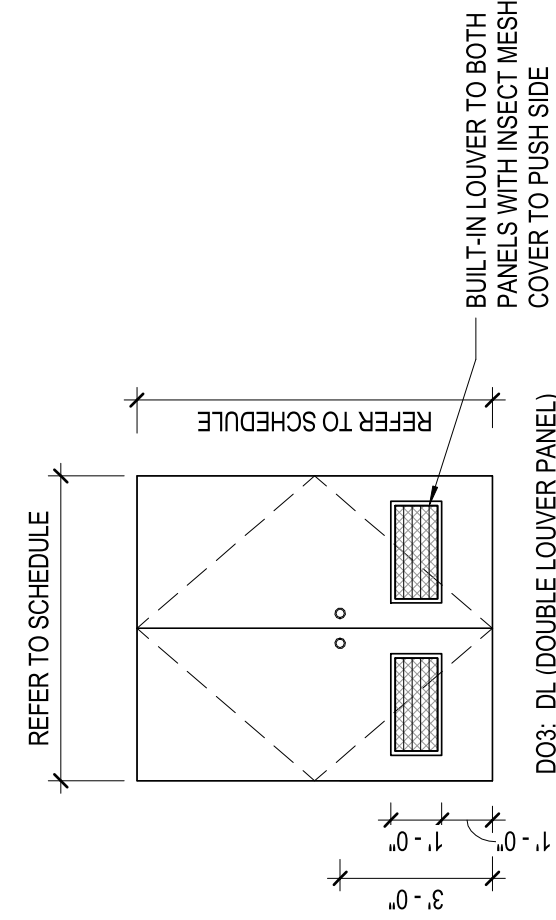
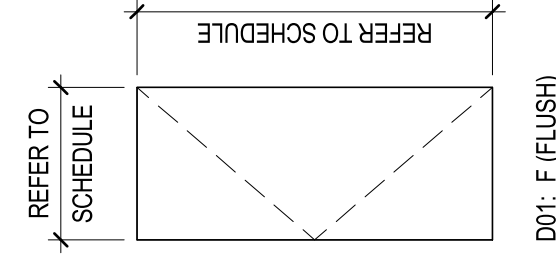
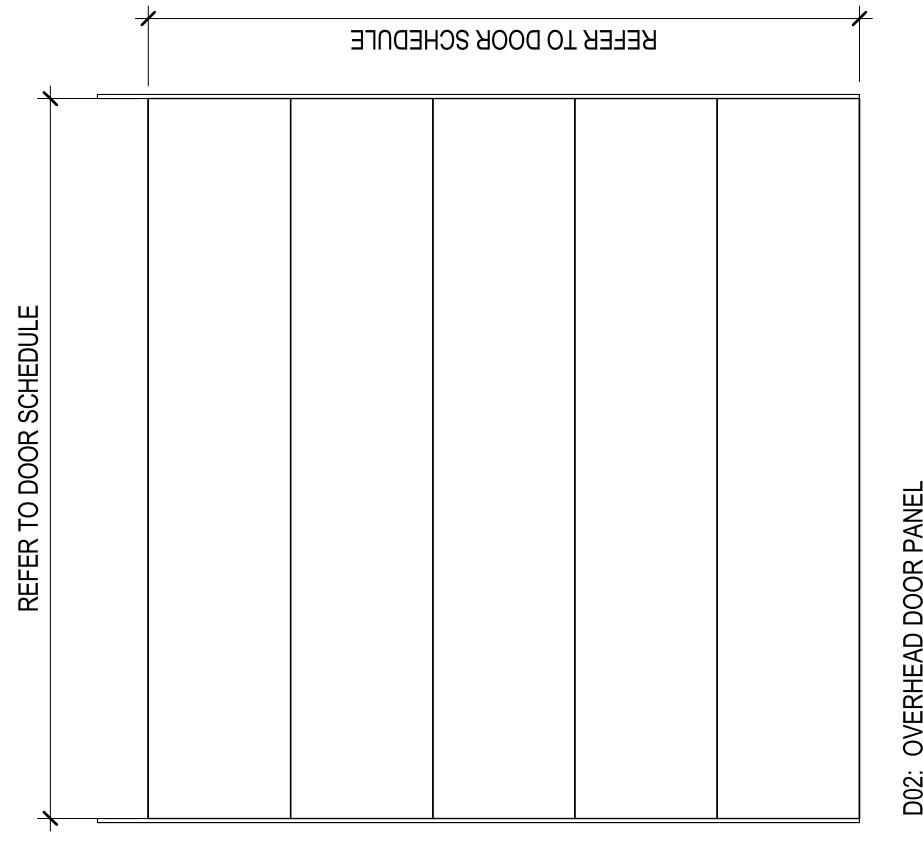
5 Section 2 - Callout 1
1 1/2" = 1'-0"

6 Section 2 - Callout 2
1 1/2" = 1'-0"

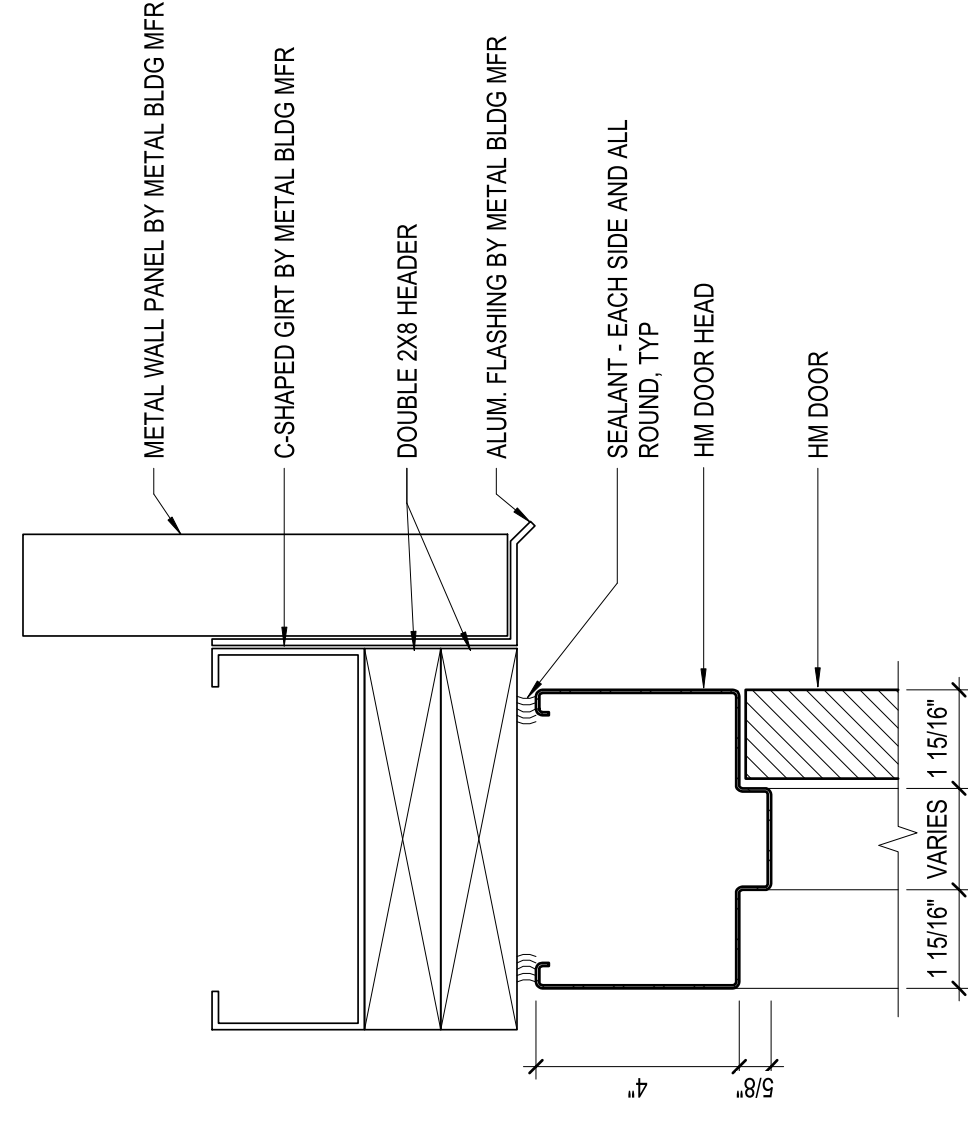
DOOR AND FRAME SCHEDULE															
LEVEL	ROOM NO.	ROOM NAME	DOOR NO.	DIMENSIONS			PANEL		FRAME		HARDWARE GROUP	NOTES			
				W1	W2	Total Width	H	T	DOOR TYPE	Material			Finish	Type	Material
T.O. SLAB	301	FEED STORAGE	15	3'-0"	3'-0"	6'-0"	7'-0"	2"	D03	METAL PAINTED	F05	METAL PAINTED	N/A	2	
T.O. SLAB	300	TANK ROOM	9	-	-	3'-0"	7'-0"	2"	D01	METAL PAINTED	F01	METAL PAINTED	N/A	2	
T.O. SLAB	300	TANK ROOM	12	-	-	12'-0"	12'-0"	2"	D02	METAL PAINTED	F02	METAL PAINTED	N/A	2	
T.O. SLAB	300	TANK ROOM	13	-	-	12'-0"	12'-0"	2"	D02	METAL PAINTED	F02	METAL PAINTED	N/A	2	
T.O. SLAB	300	TANK ROOM	14	-	-	8'-0"	7'-0"	2"	D02	METAL PAINTED	F02	METAL PAINTED	N/A	2	
T.O. SLAB	300	TANK ROOM	19	-	-	3'-0"	7'-0"	2"	D01	METAL PAINTED	F01	METAL PAINTED	N/A	2	



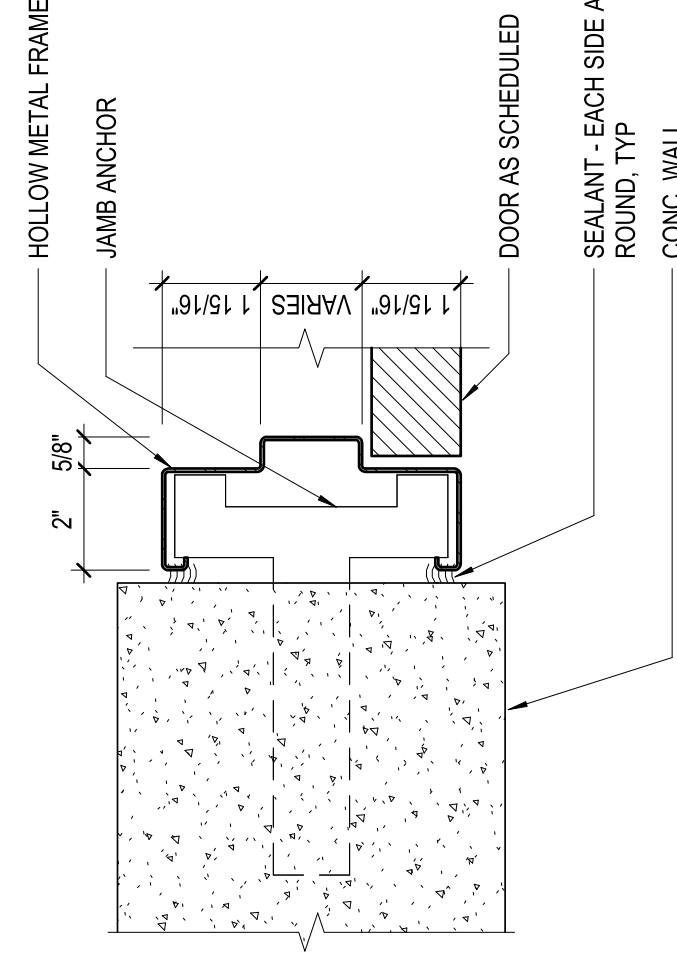
DOOR FRAME TYPES



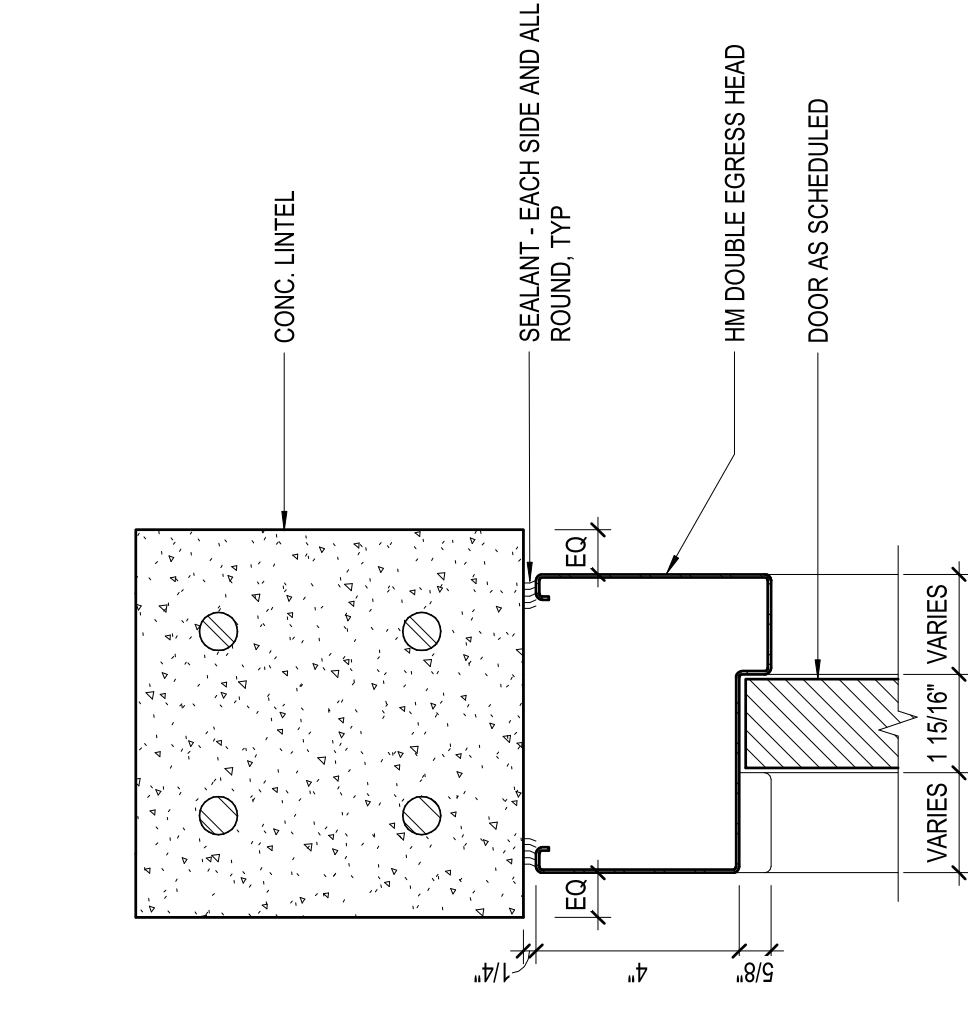
DOOR TYPES



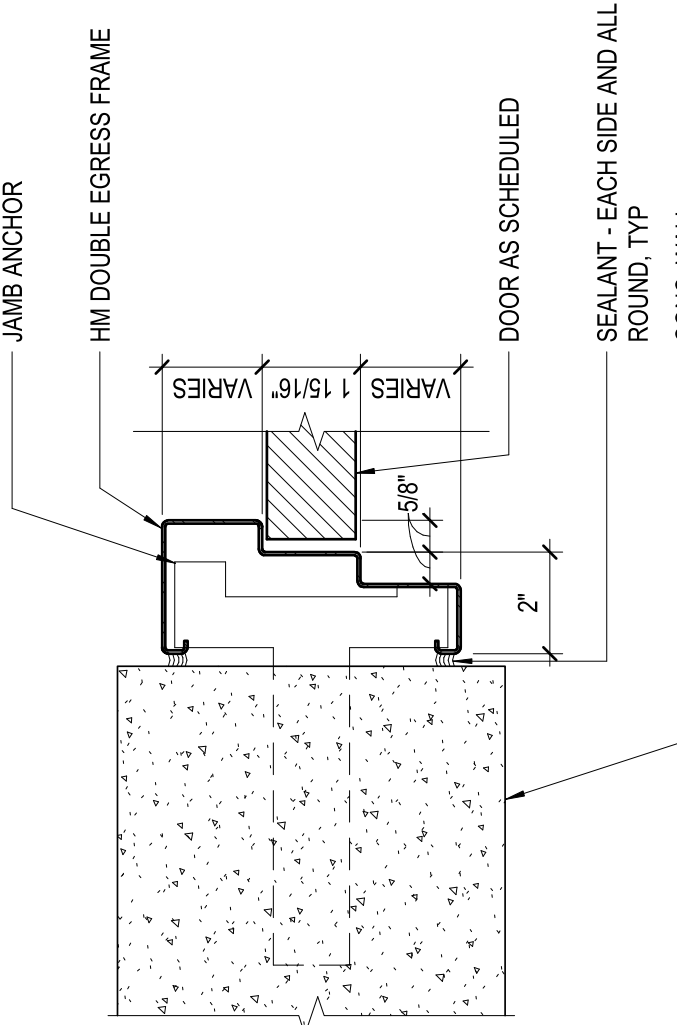
1 HEAD - HM DOOR
3' = 1'-0"



2 JAMB - HM DOOR
3' = 1'-0"



3 HEAD - HM DOUBLE EGRESS DOOR
3' = 1'-0"



4 JAMB - HM DOUBLE EGRESS DOOR
3' = 1'-0"

PROJECT MANAGER ANDREW GURSKI

CIVIL J. GAGNON

STRUCTURAL B. BRADLEY

ARCHITECTURAL M. BASKIN

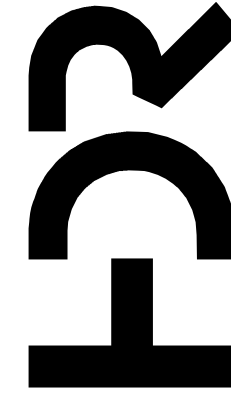
PROCESS J. CHANDLER

MECHANICAL J. CHANDLER

ELECTRICAL A. KANER

PROJECT NUMBER 10357686

ISSUE	DATE	DESCRIPTION
	07/14/2023	ISSUED FOR BID



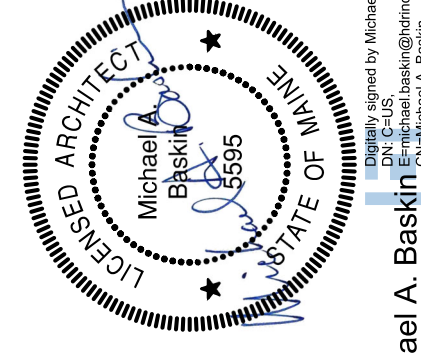
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

LOWER PAVILION DOOR SCHEDULE AND DETAILS



SCALE As indicated

SHEET **03A-601**



Michael A. Baskin
Professional Engineer
License No. 5595
State of Maine
Exp. 03/31/24 17:19:58-0400

1 2 3 4 5 6 7 8

D

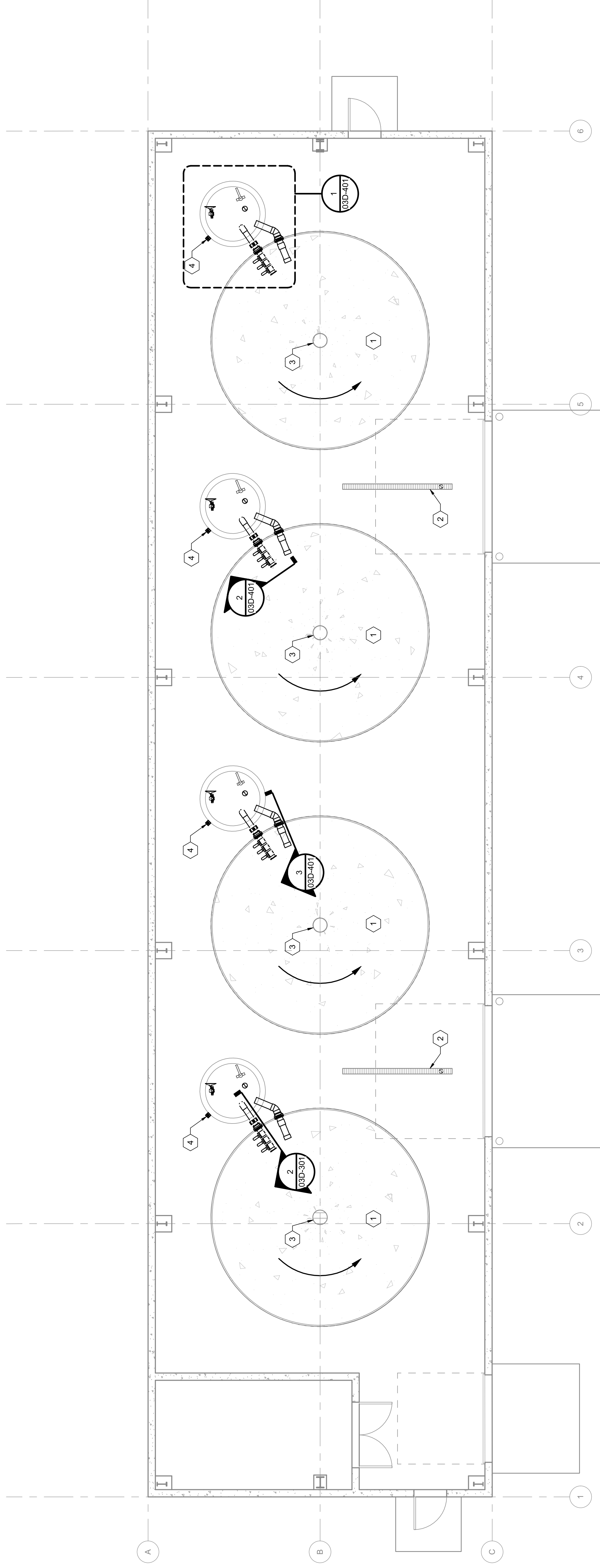
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B

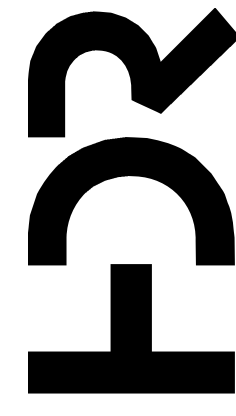
A

KEYED NOTES (#)

- 1 TYP. 20" DIA. REARING TANK
- 2 4" INSIDE WIDTH PRE-MOLDED TRENCH DRAIN
- 3 TYP. BOTTOM DRAIN SUMP LEADS FLOW LADEN WITH SOLIDS TO DRUMFILTER (15% OF TANK FLOW)
- 4 OXY METER



0 2 4 8' **1 ABOVE FLOOR PROCESS PIPING PLAN** 3/16" = 1'-0"



PROJECT MANAGER ANDREW GURSKI

CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER

ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

PROJECT NUMBER 10357686



Digitally signed by Jeffrey K. Chandler, Jr.
Date: 2023.07.14 17:27:29-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

LOWER PAVILION ABOVE FLOOR PROCESS PIPING PLAN

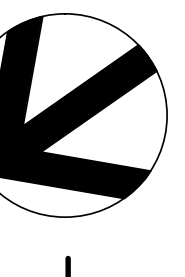
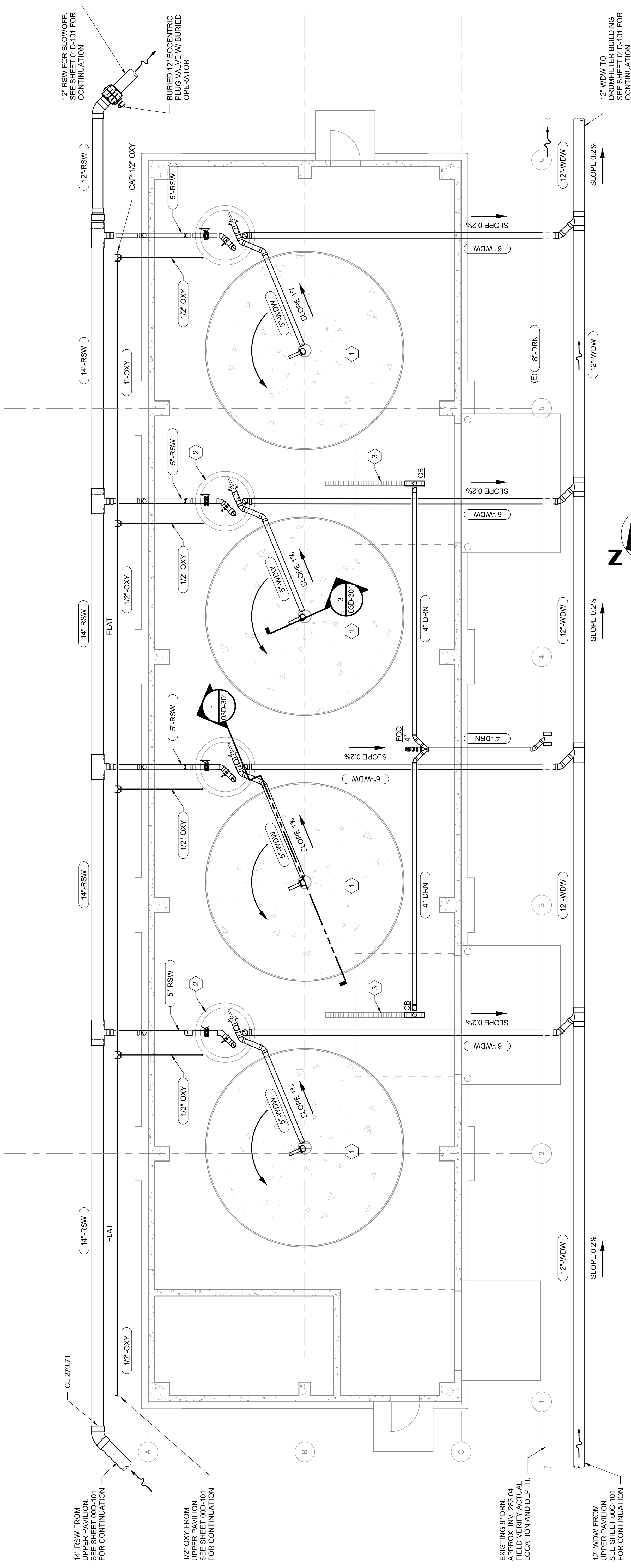
0 1' 2' SCALE 3/16" = 1'-0"

FILENAME 10353741-03-D.rvt

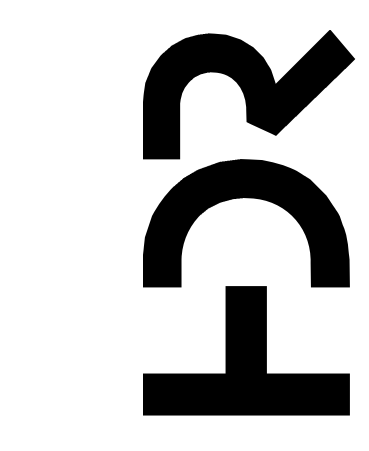
SHEET **03D-101**

1 2 3 4 5 6 7 8

- KEYED NOTES**
- 1 TYP. 20" DIA. REARING TANK
 - 2 TYP. 5'-0" ID VALVE BASIN
 - 3 4" INSIDE WIDTH PRE-MOLDED TRENCH DRAIN



1 BELOW FLOOR PROCESS PIPING PLAN
 0 2 4 8
 3/16" = 1'-0"



PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER



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 Date: 2023.07.14 17:27:45-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

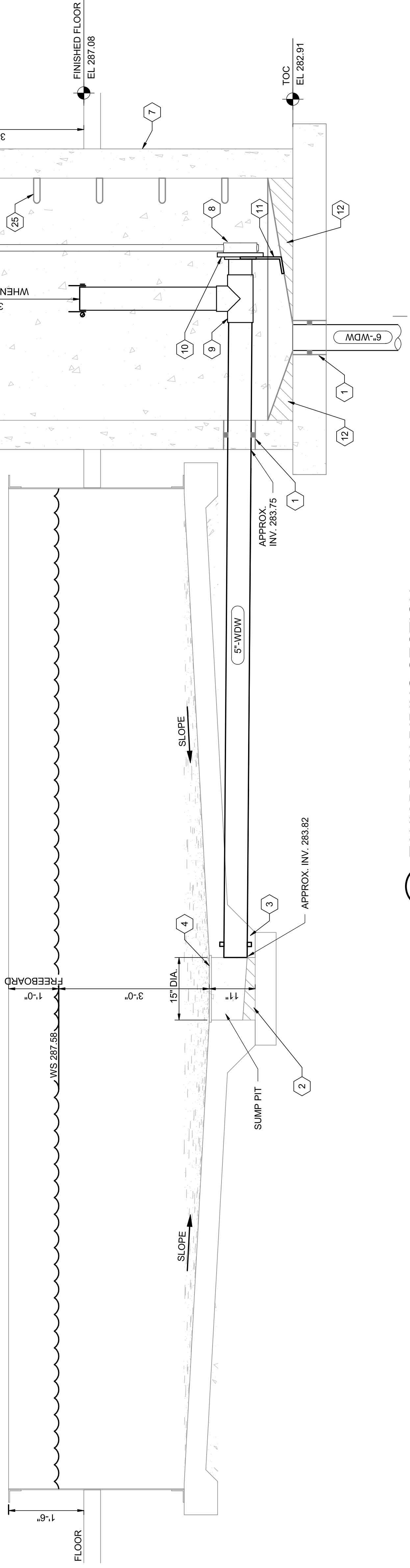
LOWER PAVILION BELOW FLOOR PROCESS PIPING PLAN

ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

PROJECT NUMBER	10357686
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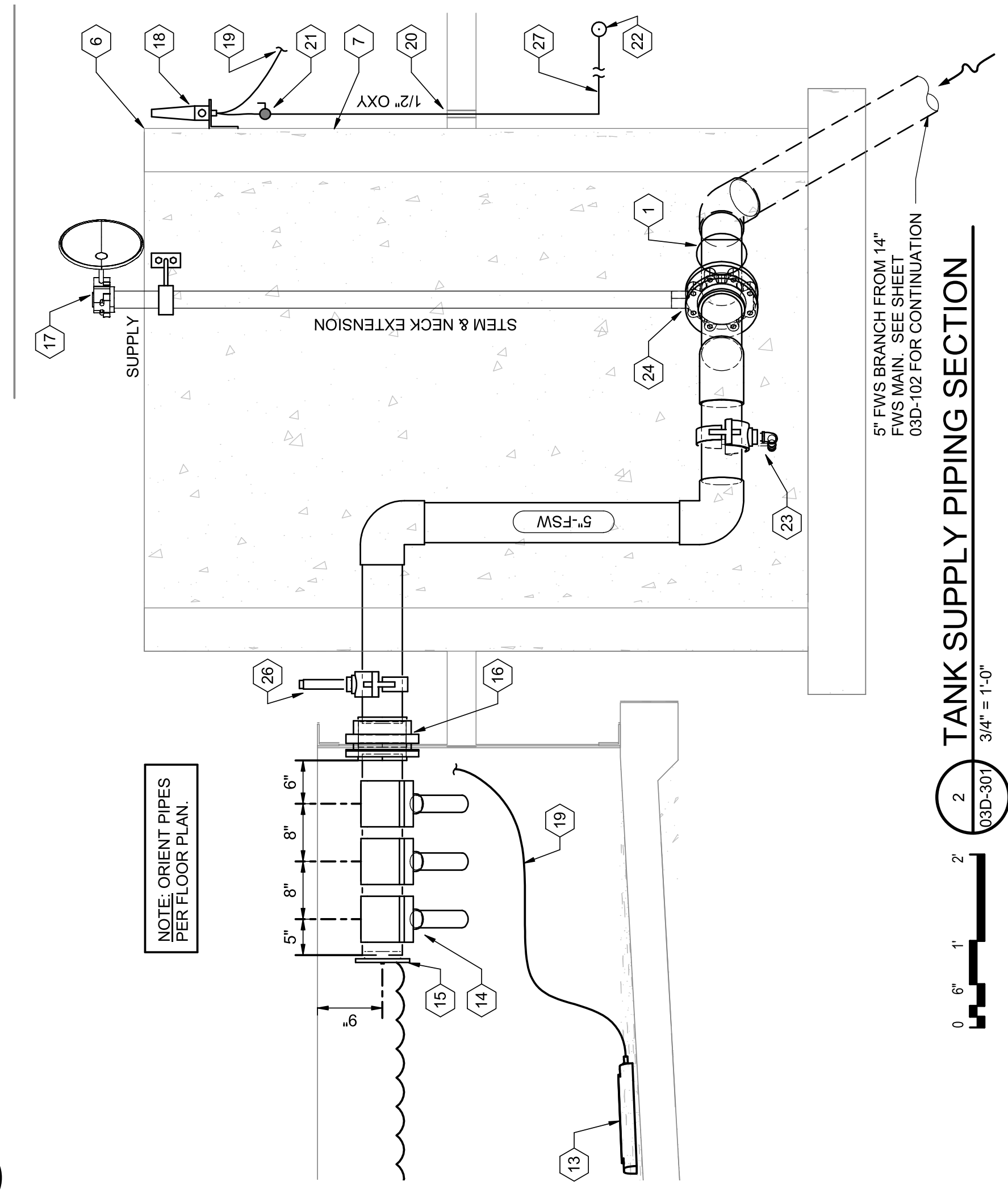
1 2 3 4 5 6 7 8

NOTE: ORIENT PIPES PER FLOOR PLAN.



1 TANK DRAIN PIPING SECTION
 1" = 1'-0"
 0 6" 1' 2'

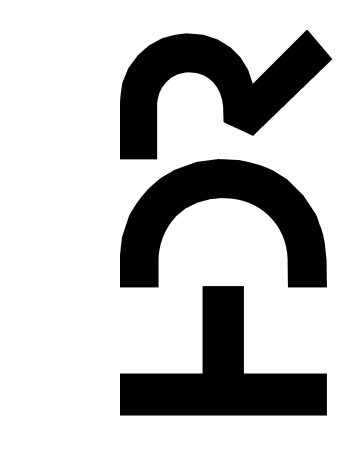
NOTE: ORIENT PIPES PER FLOOR PLAN.



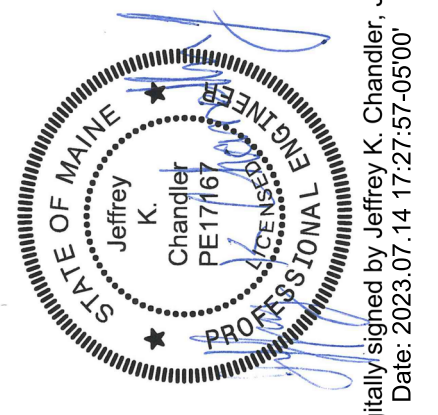
2 TANK SUPPLY PIPING SECTION
 3/4" = 1'-0"
 0 6" 1' 2'

3 PAVILION HYDROSTATIC PRESSURE RELIEF SECTION
 1" = 1'-0"
 0 6" 1' 2'

- KEYED NOTES (#)**
- 1 LINKAGE TYPE SEAL
 - 2 SLOPE GROUT TO DRAIN
 - 3 FIELD APPLIED NON-SWELLING WATERSTOP
 - 4 FISH SCREEN PER STRUCTURAL SHEETS
 - 5 GALV. OR SS VALVE & NECK SUPPORT 2" CLEAR BELOW MANHOLE RIM FOR EACH VALVE
 - 6 VALVE BASIN
 - 7 TOPLESS MANHOLE WITH STEPS & CLEAN, SMOOTH OVER SURFACE
 - 8 KNIFE GATE VALVE WITH STEM & NECK EXTENSION
 - 9 SCH 40 PVC TEE SHOWN WITHOUT UPSTREAM 45 DEGREE BEND FOR CLARITY. INCLUDE BEND & ORIENTATE PER PLAN 103D-401
 - 10 PVC ONE-PIECE SOCKET FLANGE
 - 11 SUPPORT FLANGE OR PIPE TO GROUT W/ SS HARDWARE
 - 12 GROUT SLOPED ALL AROUND TO DRAIN
 - 13 CERAMIC OXYGEN DIFFUSER
 - 14 ORIENT NOZZLES SIMILAR TO DETAIL 2/03D-401.
 - 15 EXPANSION PLUG
 - 16 PVC BULKHEAD/ TANK ADAPTER (SOCKET x SOCKET)
 - 17 WEATHERPROOF GEAR OR LEVER WITH AT LEAST 13 POSITIONS WITHOUT WING NUTS & WITHOUT SET SCREWS
 - 18 SS BRACKET MOUNTED THORPE STYLE OXYGEN METER (C/7 SUPM) WITH TOP-1/2" NPT, 3" SPACING OPPOSITE SIDE FOR CLARITY. LOCATE PER PLAN
 - 19 1/4" HOSE TO OXYGEN DIFFUSER
 - 20 TYP. PIPE PENETRATION THRU FLOOR
 - 21 CONNECT ISOLATION BALL VALVE TO METER WITH ADAPTERS AND HOSE OR COPPER PIPE
 - 22 1/2" OXY MAIN APPROX. 21" BELOW FLOOR
 - 23 CURBSTOP VALVE WITH SEMI-PERMANENT SQUARE OPERATOR FROM WINTERIZATION/DRAIN
 - 24 BUTTERFLY VALVE (FISH TANK SUPPLY VALVE)
 - 25 MANHOLE STEPS
 - 26 5" PVC SADDLE TAP W/ 1" SIGHT GLASS
 - 27 BURIED 1/2" OXY
 - 28 3" HYDROSTATIC PRESSURE RELIEF VALVE EQUAL TO PENN-TROY A2880
 - 29 FLANGED WALL PIPE WITH ANTI-SLEEP RING & SCREEN
 - 30 CLEAN CRUSHED STONE



PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



Digitally signed by Jeffrey K. Chandler, Jr.
 Date: 2023.07.14 17:27:57-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

LOWER PAVILION TANK SECTIONS

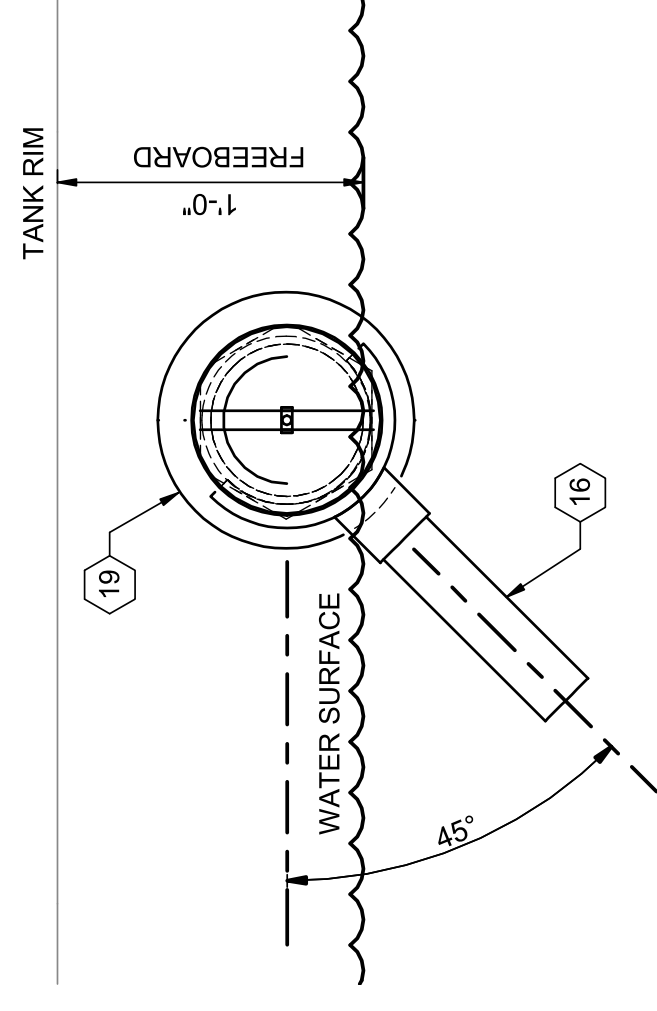
ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID



FILENAME 10353741-03D.rvt
 SCALE As indicated
 SHEET **03D-301**

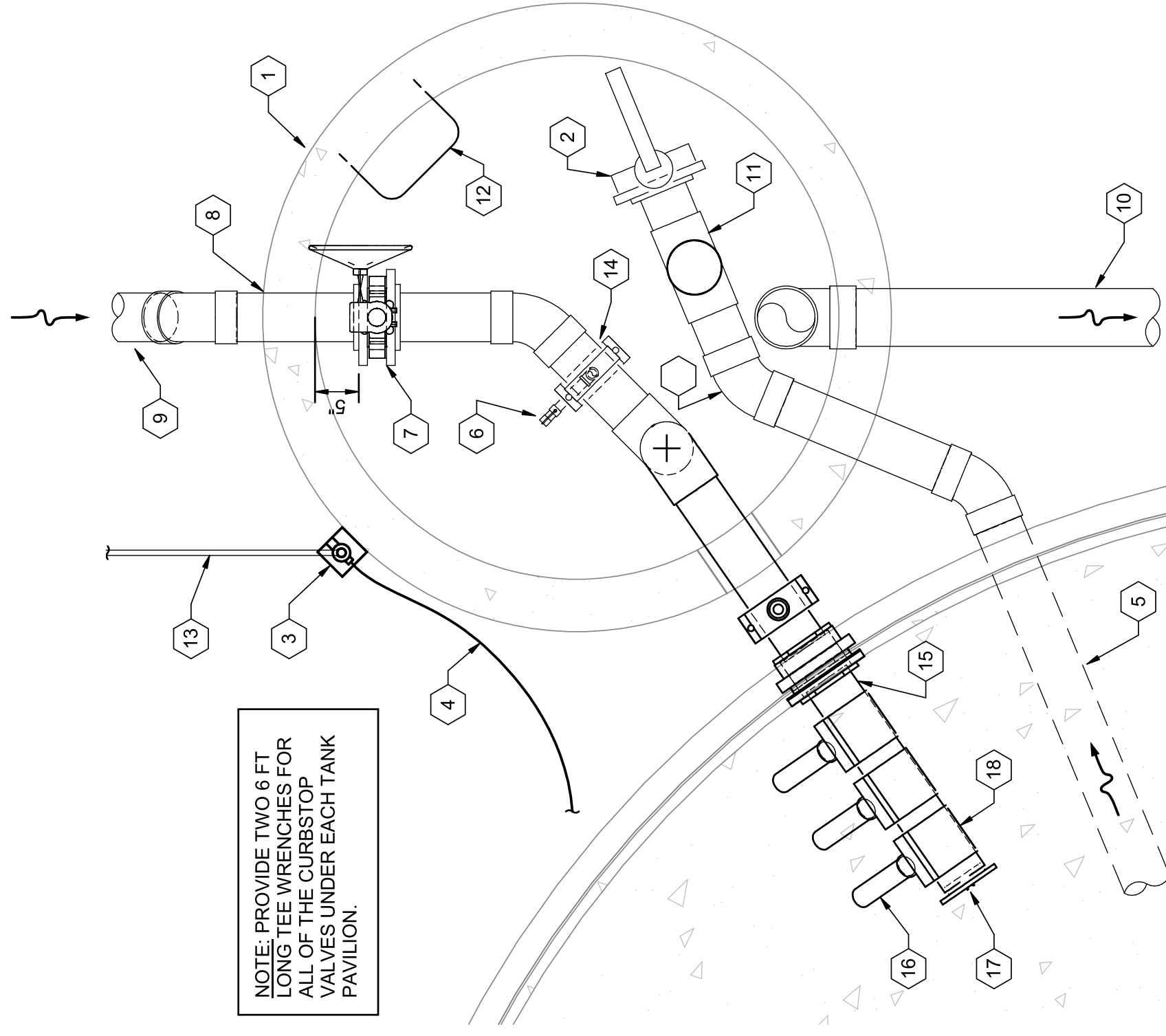
KEYED NOTES (#)

- 1 TYP. 5'-0" ID VALVE BASIN
- 2 KNIFE GATE VALVE FOR DRAINING TANK
- 3 OXY METER
- 4 1/4" HOSE TO OXYGEN DIFFUSER
- 5 5" DRAIN & OW FROM FISH TANK
- 6 CURBSTOP VALVE WITH SEMI-PERMANENT SQUARE OPERATOR FROM WINTERIZATION/DRAIN
- 7 BUTTERFLY VALVE (FISH TANK SUPPLY VALVE)
- 8 DUCTILE IRON PIPE THRU LINKAGE SEAL
- 9 5" SUPPLY FROM 1/4" RSS SUB-MAIN
- 10 6" WDW
- 11 TEE CLOSE TO BEND WITH STANDPIPE FOR OVERFLOW/LEVEL CONTROL
- 12 MANHOLE STEPS
- 13 BURIED 1/2" OXY
- 14 SCH.40 PVC PIPE WITH METAL SERVICE SADDLE WITH FEMALE THREADED 3/4" OUTLET DOWN, TURN CURBSTOP VALVE WITH GALV. STEEL STREET EL.
- 15 5" SUPPLY TO FISH TANK
- 16 9' LENGTH OF 2" SCH 40 PVC
- 17 EXPANSION PLUG
- 18 5x2 SCH 40 GLUE-ON SADDLE
- 19 TANK ADAPTER: SCH 80 PVC BULKHEAD WITH AT LEAST 8.75" O.D. BODY (FPT TOWARD TANK) W/5" REDUCING BUSHINGS EACH END

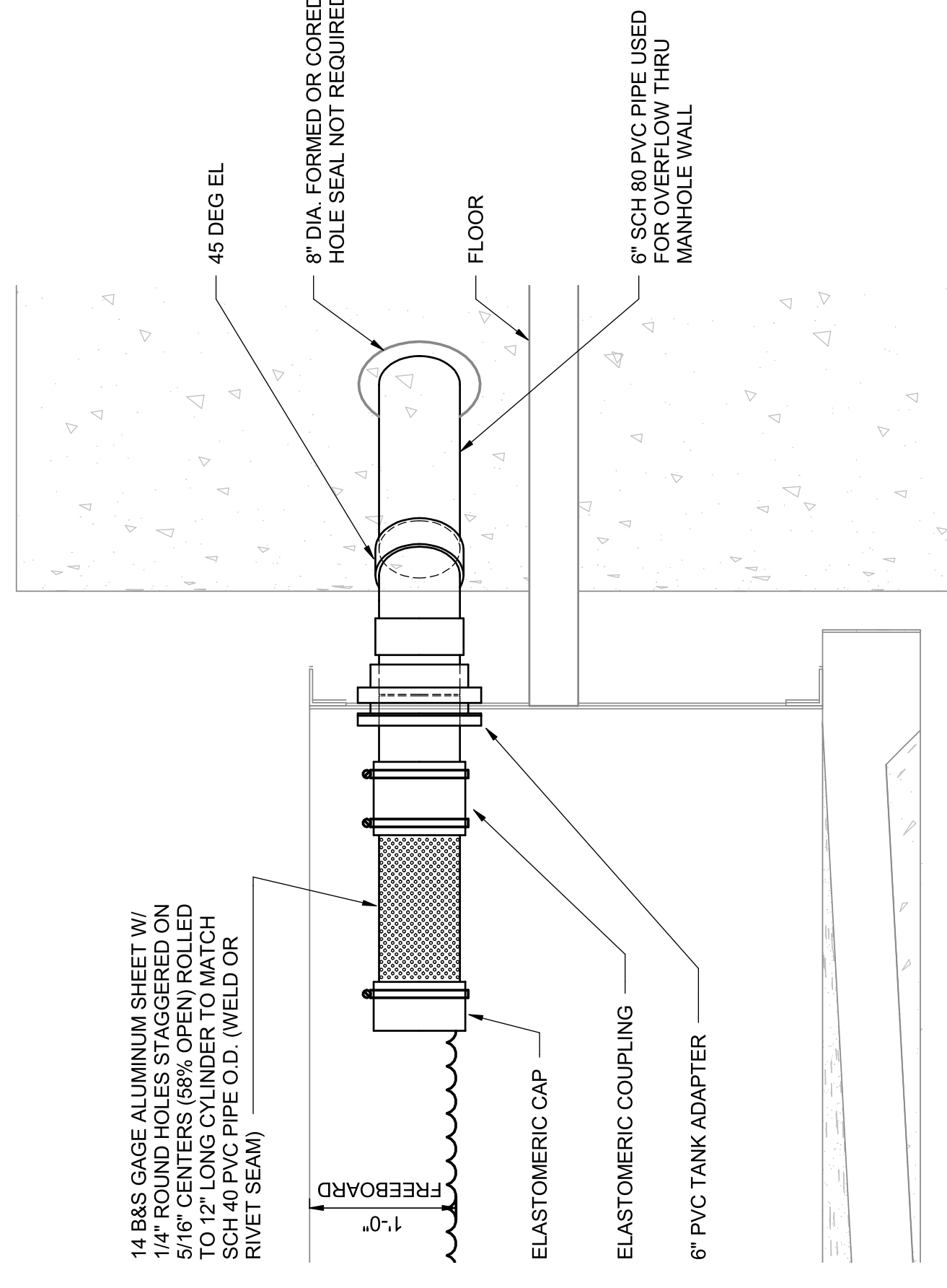
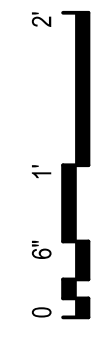
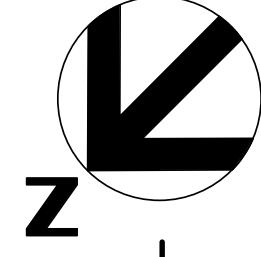


2 SUPPLY HEADER END SECTION
3/3D-407 NOT TO SCALE

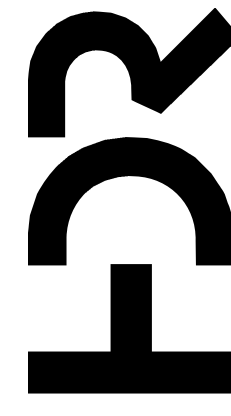
NOTE: PROVIDE TWO 6 FT LONG TEE WRENCHES FOR EACH VALVE UNDER EACH TANK PAVILION.



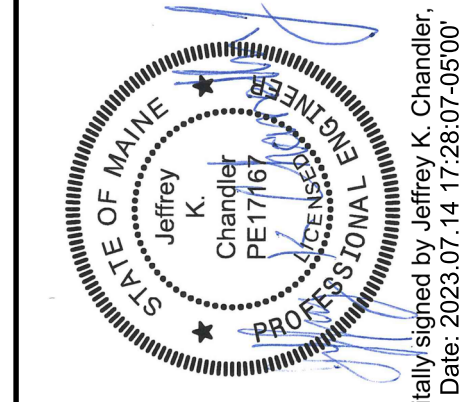
1 ENLARGED UPPER PAVILION VALVE BASIN PLAN
3/3D-407 3/4\"/>



3 OVERFLOW PIPING DETAIL
3/3D-407 NOT TO SCALE



PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



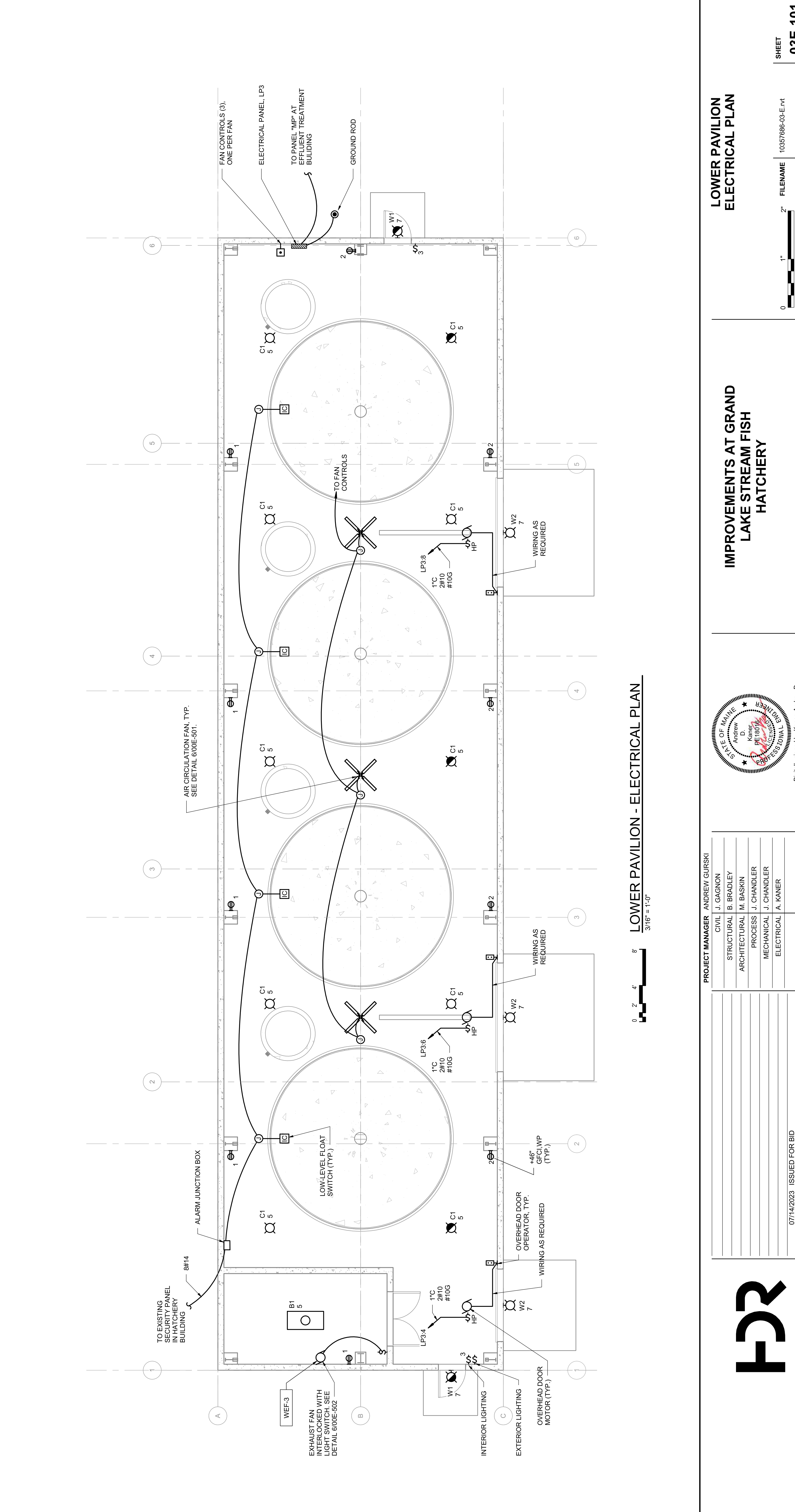
Digitally signed by Jeffrey K. Chandler, Jr.
Date: 2023.07.14 17:28:07-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

LOWER PAVILION ENLARGED PLAN & DETAILS

FILENAME 10353741-03-D.rvt
SCALE As Indicated



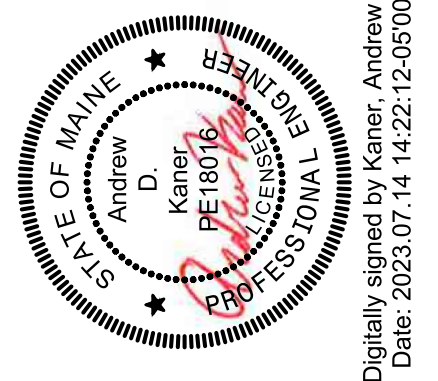


0' 2' 4' 8'
3/16" = 1'-0"

LOWER PAVILION - ELECTRICAL PLAN

IMPROVEMENTS AT GRAND LAKE STREAM FISH HATCHERY

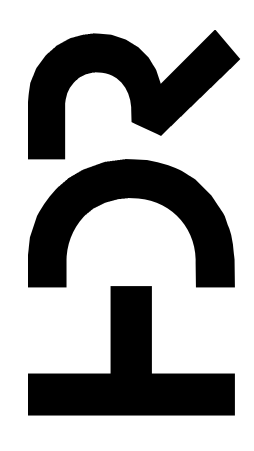
LOWER PAVILION ELECTRICAL PLAN

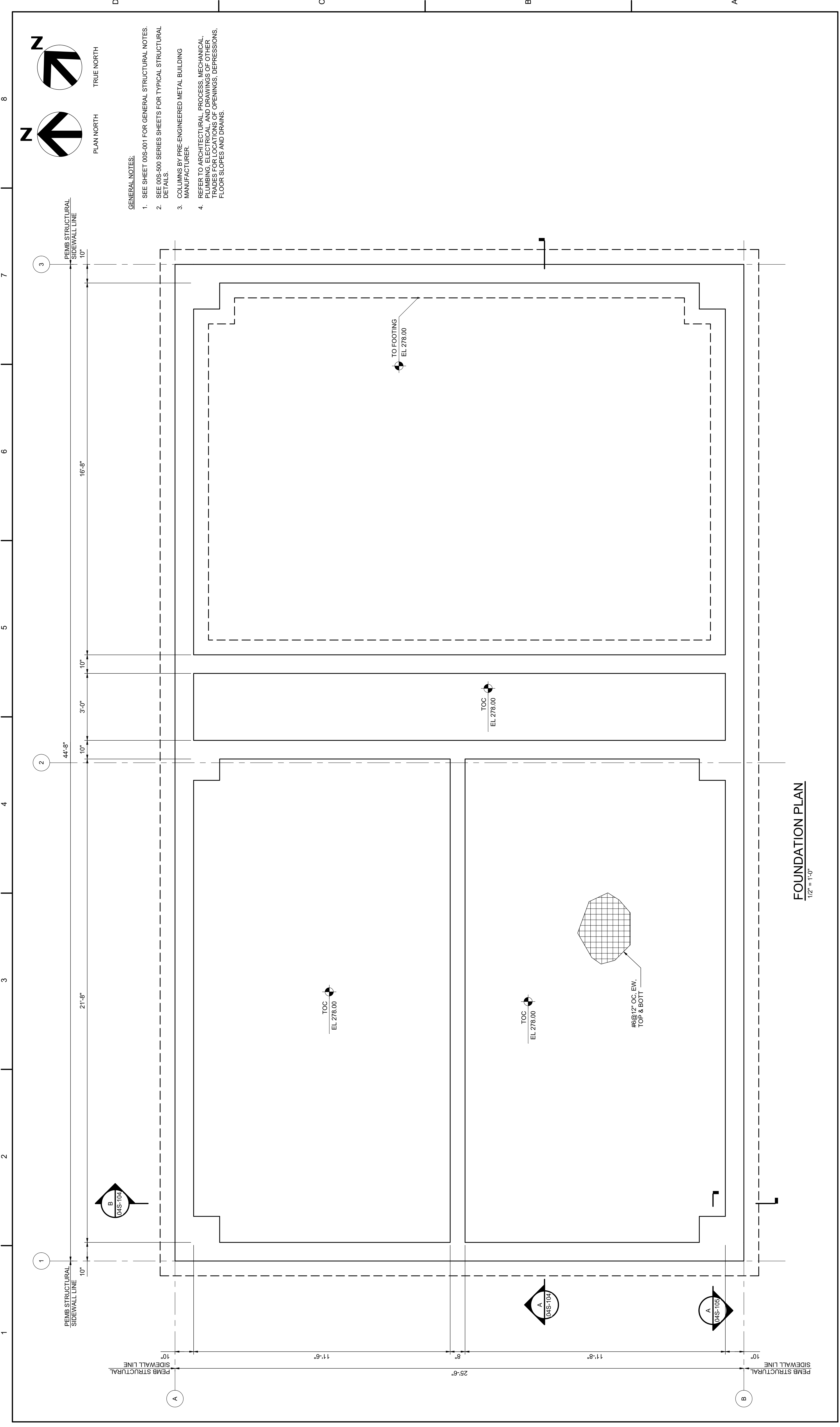


Digitally signed by Kaner, Andrew D
Date: 2023.07.14 14:22:12-05'00'

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

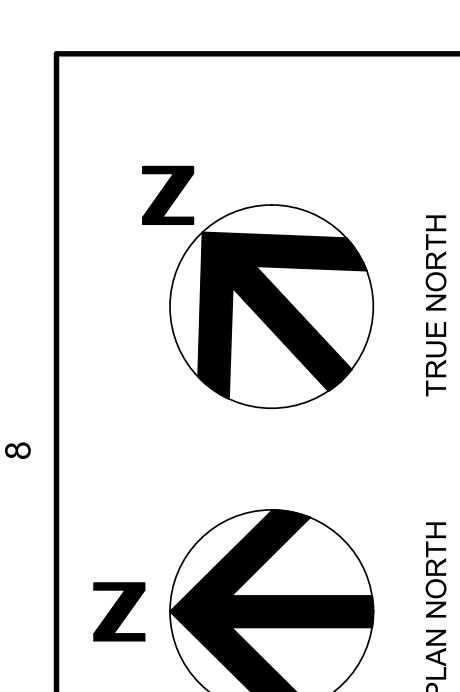
ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID





FOUNDATION PLAN
1/2" = 1'-0"

- GENERAL NOTES:**
1. SEE SHEET 00S-001 FOR GENERAL STRUCTURAL NOTES.
 2. SEE 00S-500 SERIES SHEETS FOR TYPICAL STRUCTURAL DETAILS.
 3. COLUMNS BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
 4. REFER TO ARCHITECTURAL, PROCESS, MECHANICAL, PLUMBING, ELECTRICAL, AND DRAWINGS OF OTHER TRADES FOR LOCATIONS OF OPENINGS, DEPRESSIONS, FLOOR SLOPES AND DRAINS.



**EFFLUENT TREATMENT BUILDING
FOUNDATION PLAN**

PROJECT NUMBER | 10357686
ISSUE DATE | 07/14/2023
DESCRIPTION | ISSUED FOR BID

FILENAME | 10357686-04-S.rvt
SCALE | 1/2" = 1'-0"

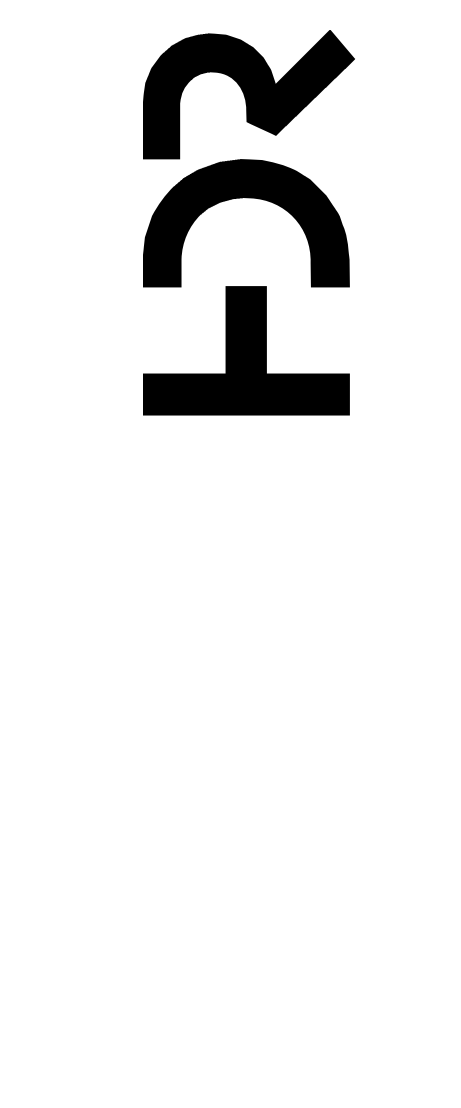
SHEET | 04S-101

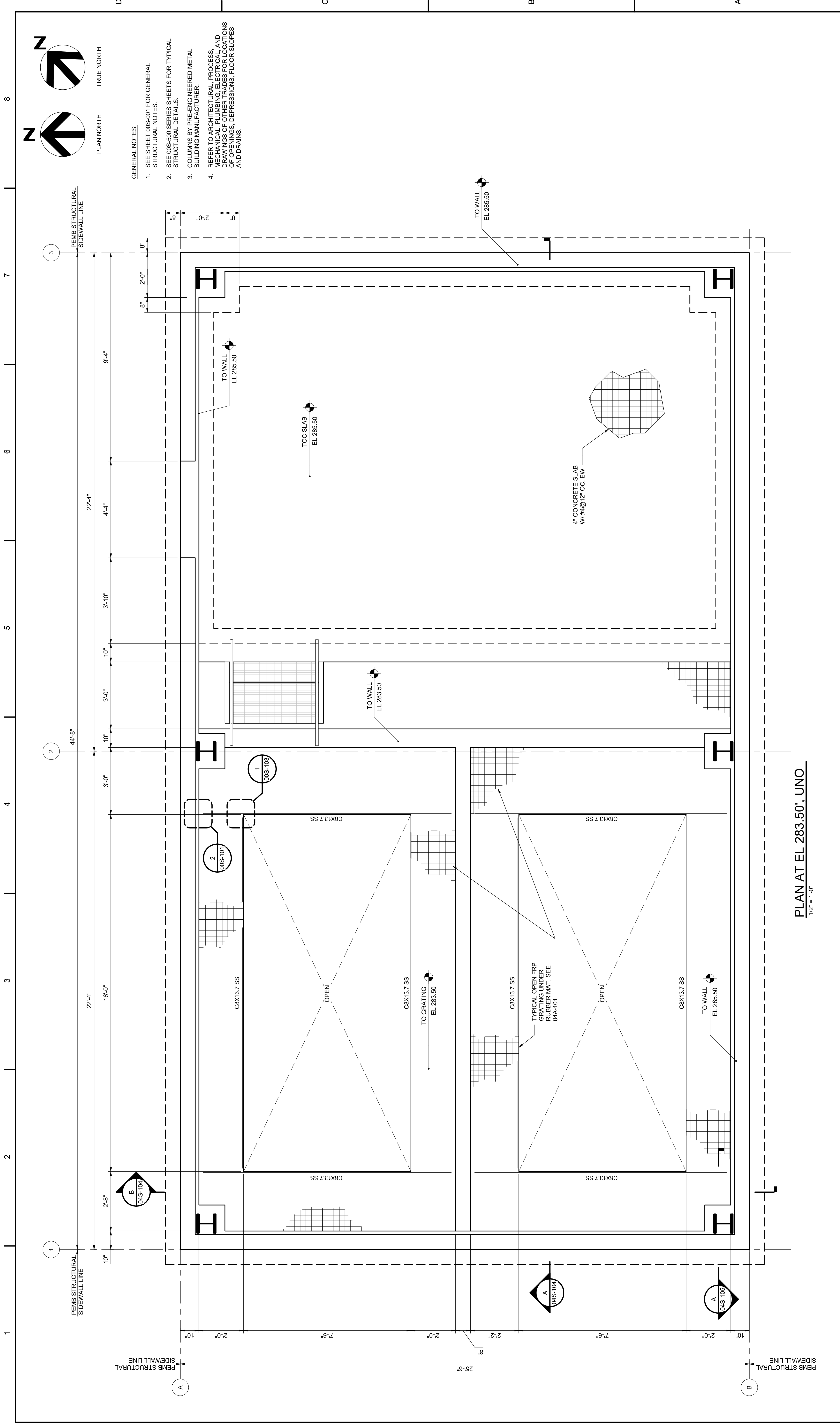
**IMPROVEMENTS AT GRAND
LAKE STREAM FISH
HATCHERY**

Bruce Bradley
Professional Engineer
No. 10357686
Date: 2023.07.14
18:03:10:46:07

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

ISSUE	DATE	DESCRIPTION
	07/14/2023	ISSUED FOR BID

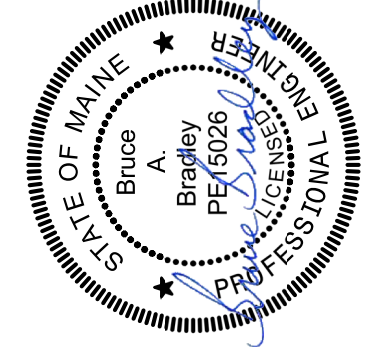




- GENERAL NOTES:**
1. SEE SHEET 04S-001 FOR GENERAL STRUCTURAL NOTES.
 2. SEE 00S-500 SERIES SHEETS FOR TYPICAL STRUCTURAL DETAILS.
 3. COLUMNS BY P/E ENGINEERED METAL BUILDING MANUFACTURER.
 4. REFER TO ARCHITECTURAL, PROCESS, MECHANICAL, PLUMBING, ELECTRICAL, AND DRAWINGS OF OTHER TRADES FOR LOCATIONS OF OPENINGS, DEPRESSIONS, FLOOR SLOPES AND DRAINS.

PLAN AT EL 283.50', UNO
1/2" = 1'-0"

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



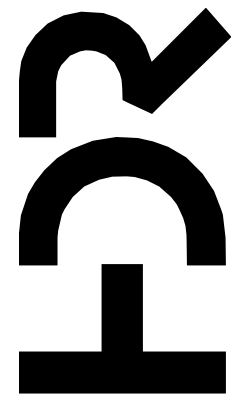
Digitally signed by Bruce Bradley
Date: 2023.07.14 16:03:16-0400

IMPROVEMENTS AT GRAND LAKE STREAM FISH HATCHERY

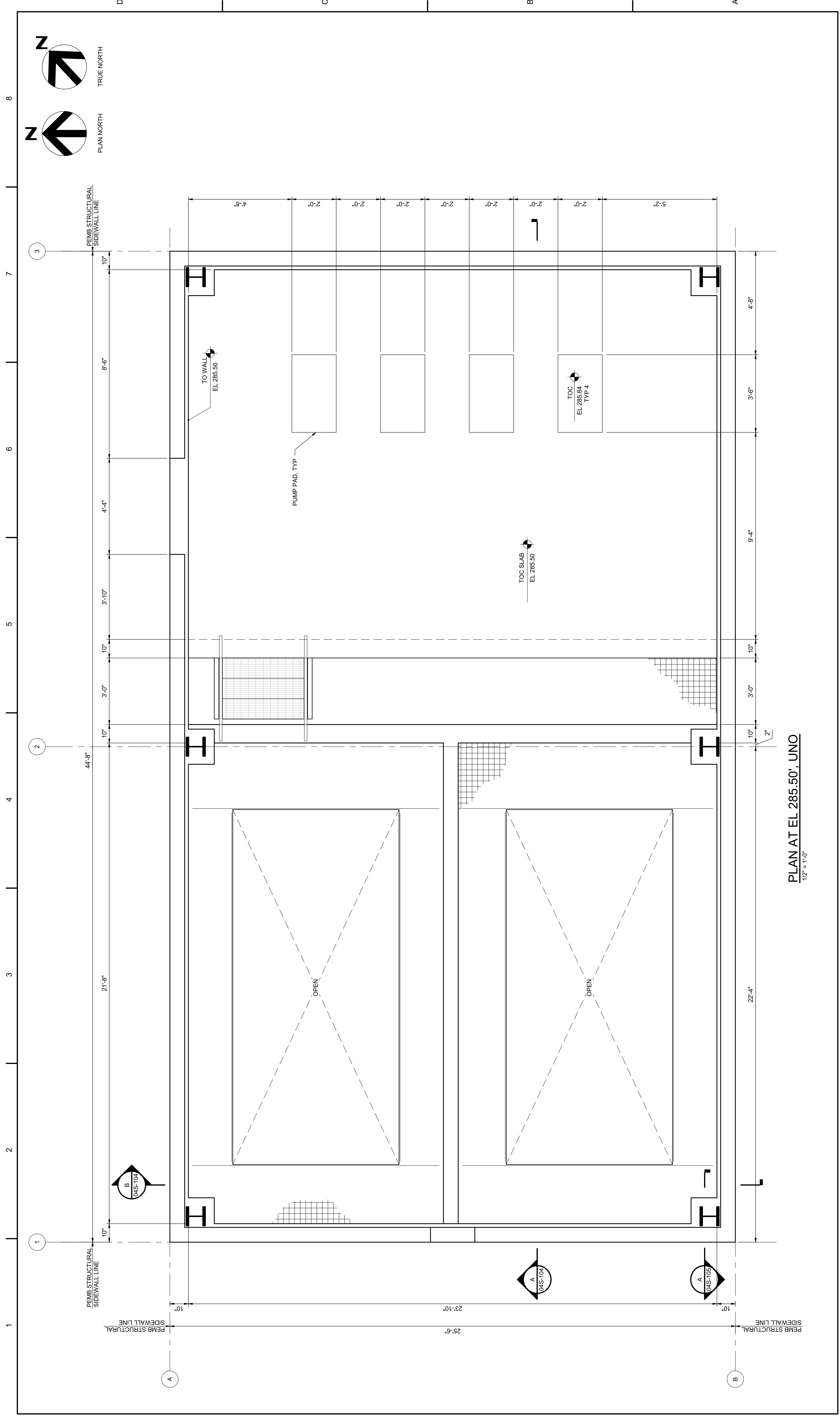
EFFLUENT TREATMENT BUILDING PLAN AT EL 283.50'

FILENAME 10357686-04-S.rvt
SCALE 1/2" = 1'-0"

SHEET **04S-102**

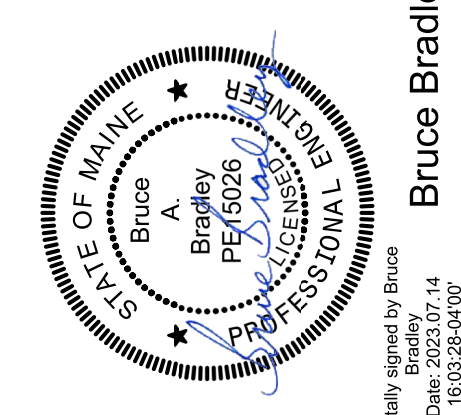


ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID



PLAN AT EL 285.50', UNO
1/2" = 1'-0"

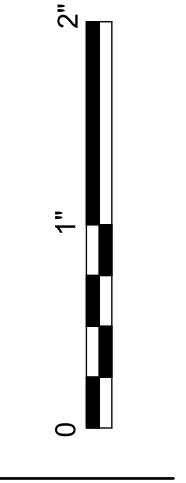
PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



Digitally signed by Bruce Bradley
Date: 2023.07.14 16:03:28-0400

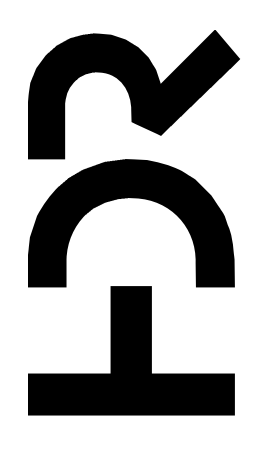
IMPROVEMENTS AT GRAND LAKE STREAM FISH HATCHERY

EFFLUENT TREATMENT BUILDING PLAN AT 285.50'

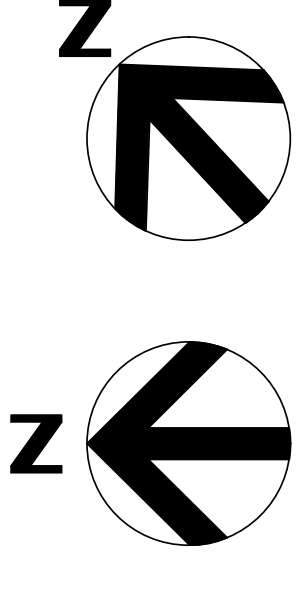
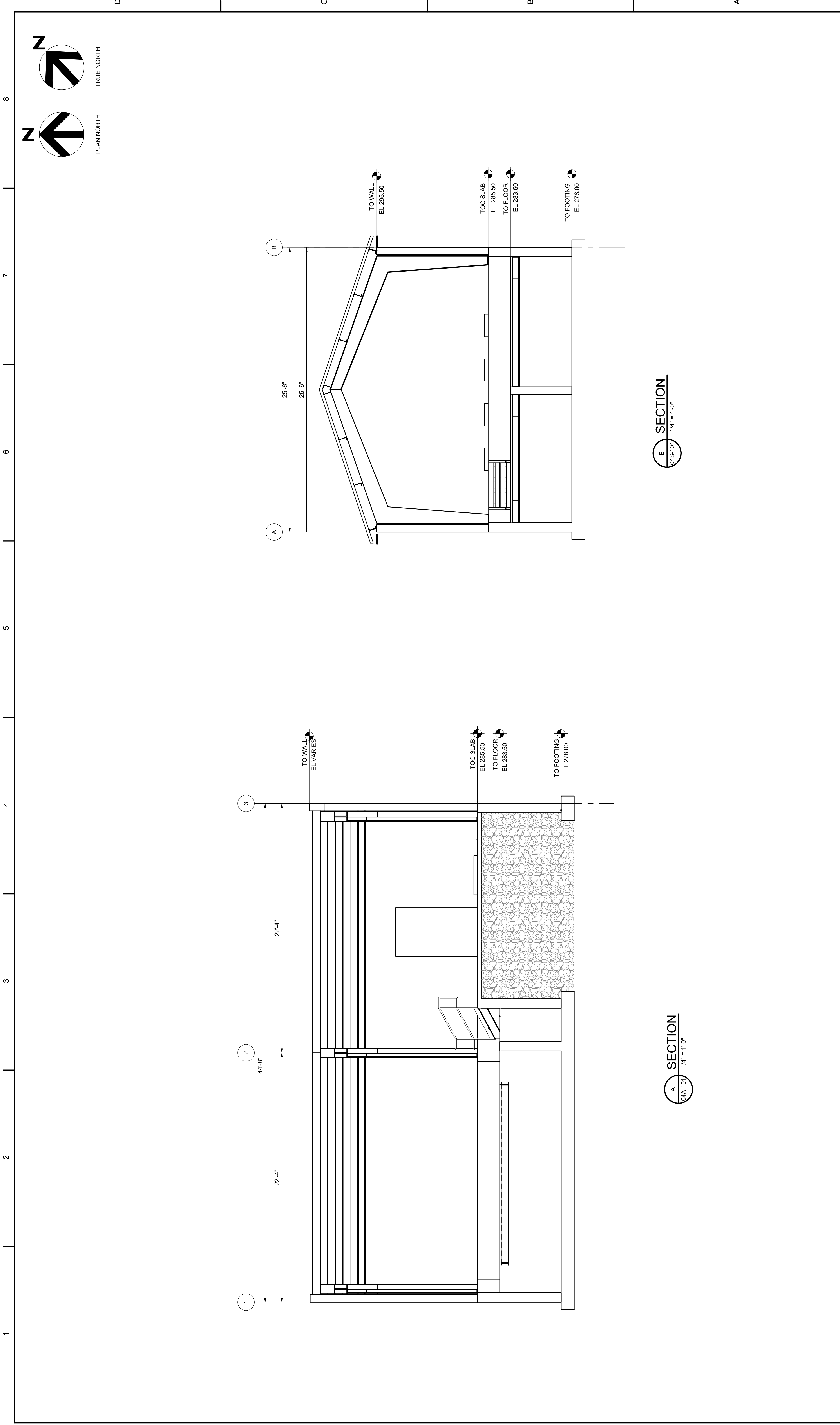


FILENAME 10357686-04-S.rvt
SCALE 1/2" = 1'-0"

SHEET **04S-103**

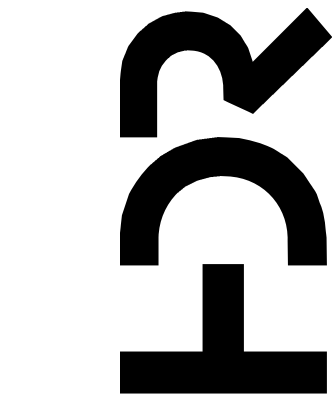


ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

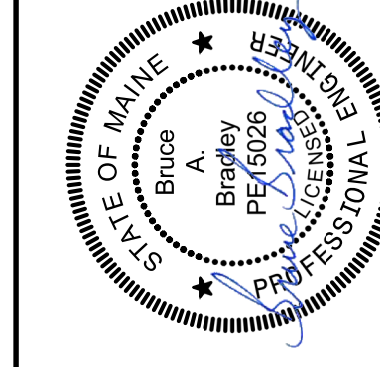


1 2 3 4 5 6 7 8

A B C D



PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



Digitally signed by Bruce Bradley
Date: 2023.07.14 16:03:41-0400
Bruce Bradley

IMPROVEMENTS AT GRAND LAKE STREAM FISH HATCHERY

EFFLUENT TREATMENT BUILDING SECTIONS

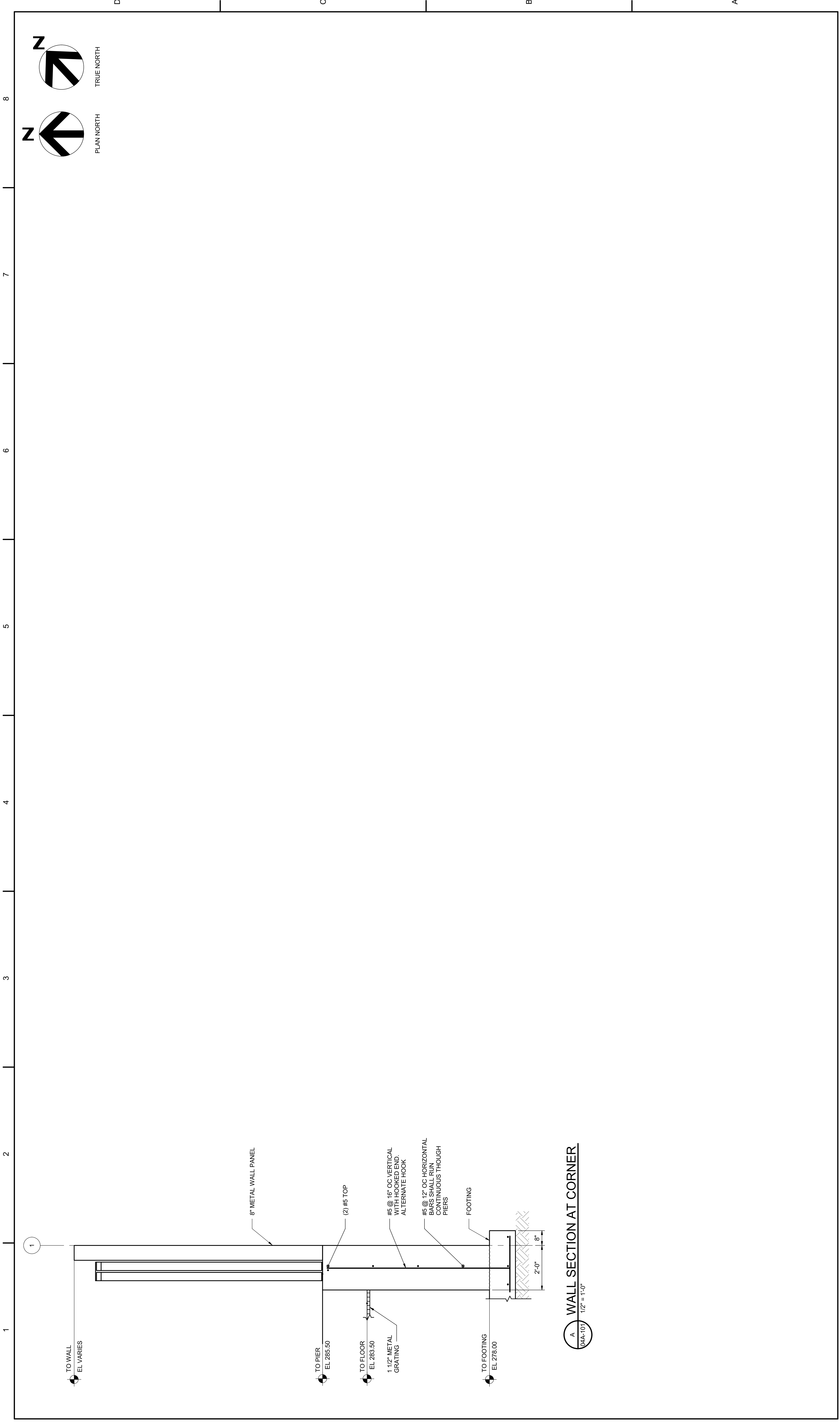
ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

0 1' 2'

SCALE 1/4" = 1'-0"

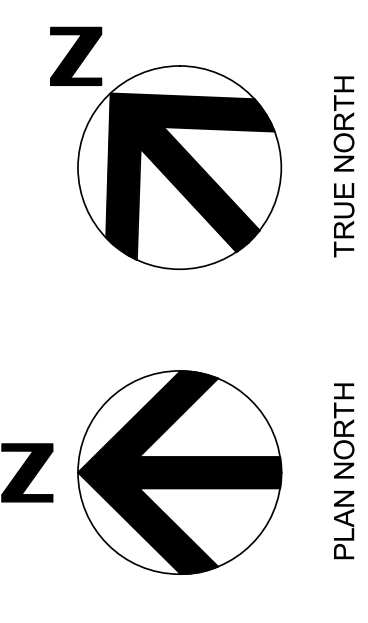
FILENAME 10357686-04-S.rvt

SHEET **04S-104**



1 2 3 4 5 6 7 8

A B C D



EFFLUENT TREATMENT BUILDING

SECTIONS

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SCALE 1/2" = 1'-0"

FILENAME 10357686-04-S.rvt

SHEET **04S-105**

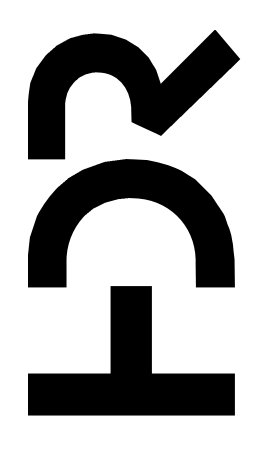
IMPROVEMENTS AT GRAND LAKE STREAM FISH HATCHERY

Bruce Bradley

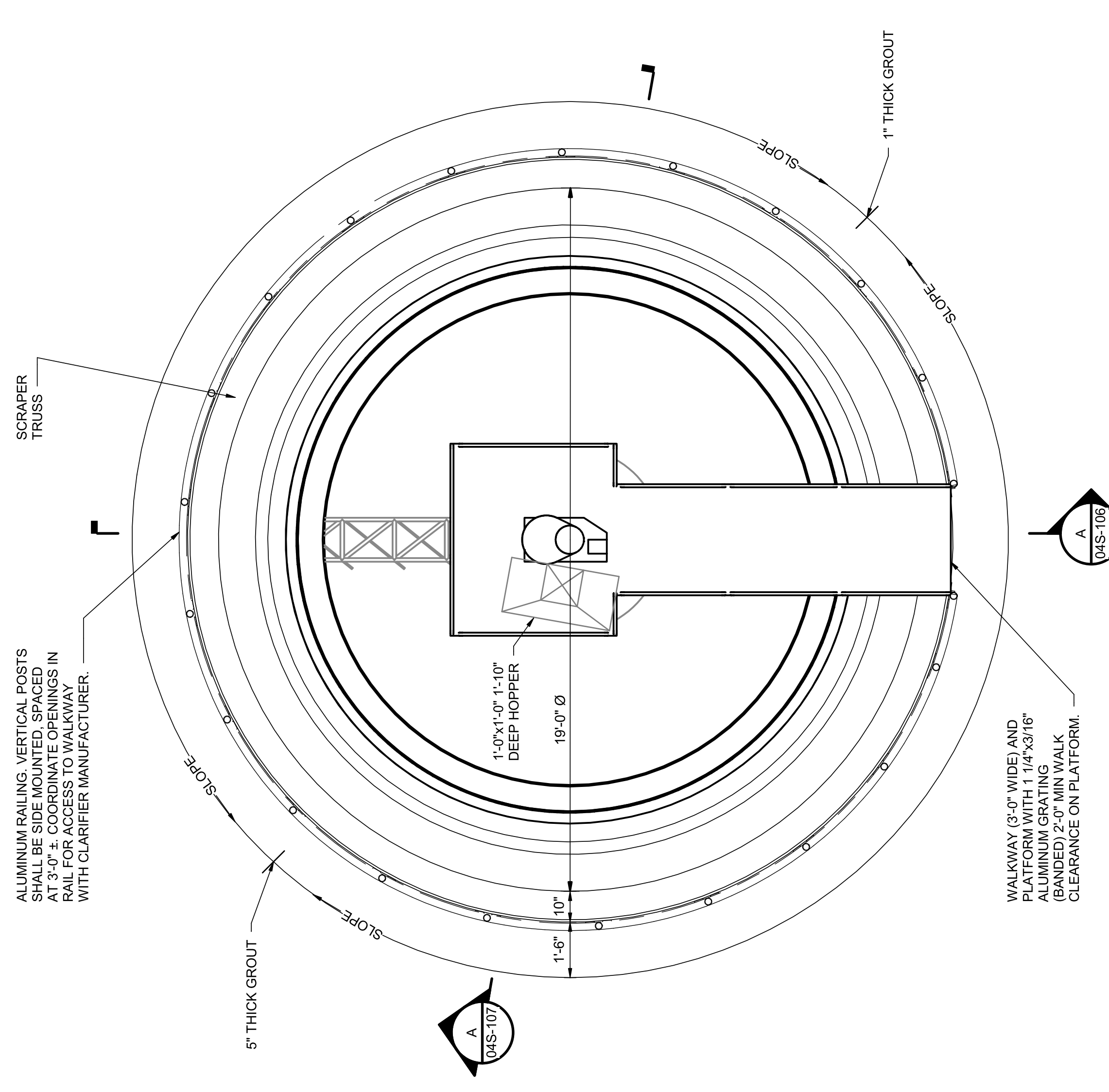
Digitally signed by Bruce Bradley
Date: 2023.07.14 16:03:51-0400

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

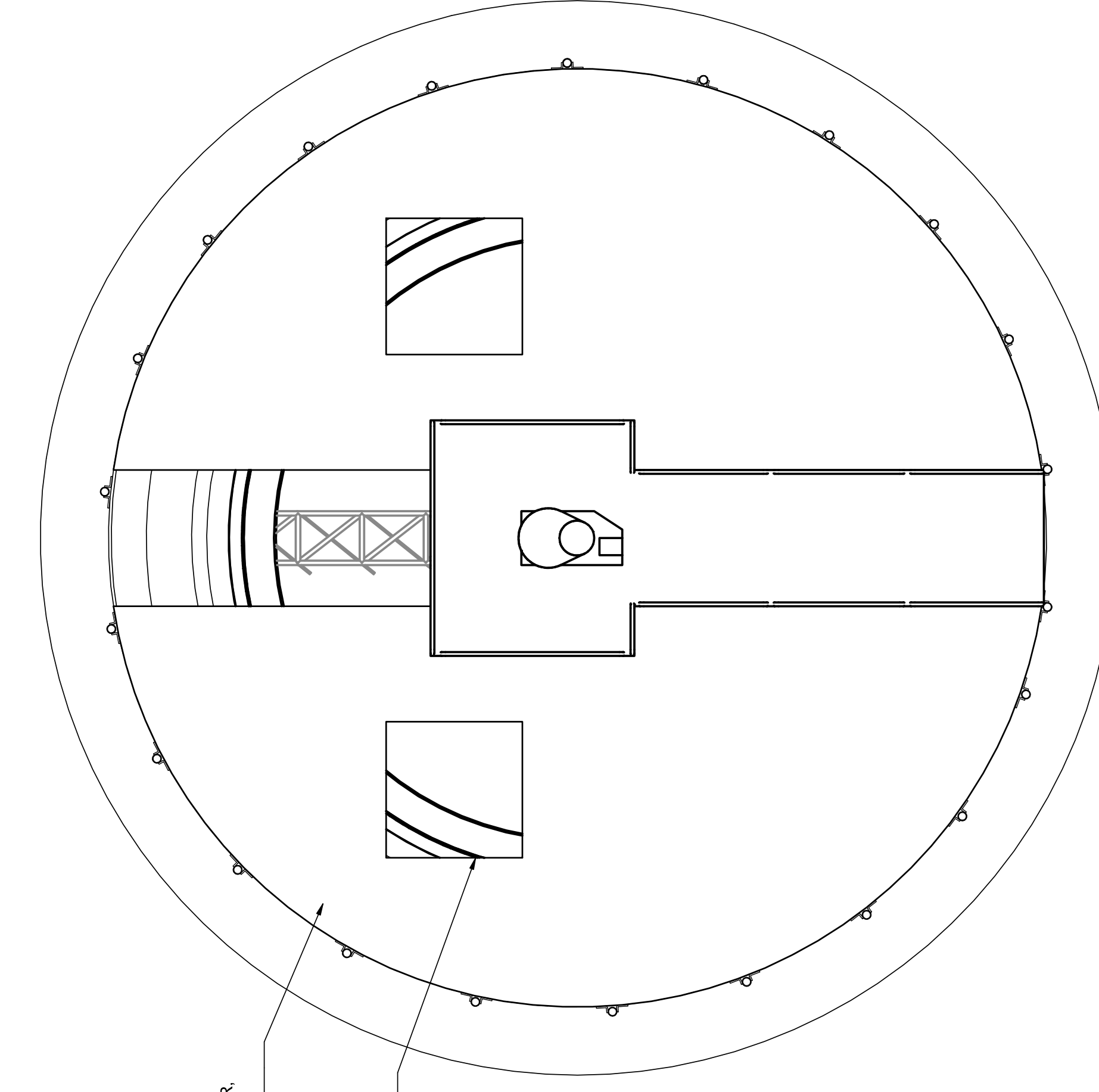
ISSUE	DATE	DESCRIPTION
	07/14/2023	ISSUED FOR BID



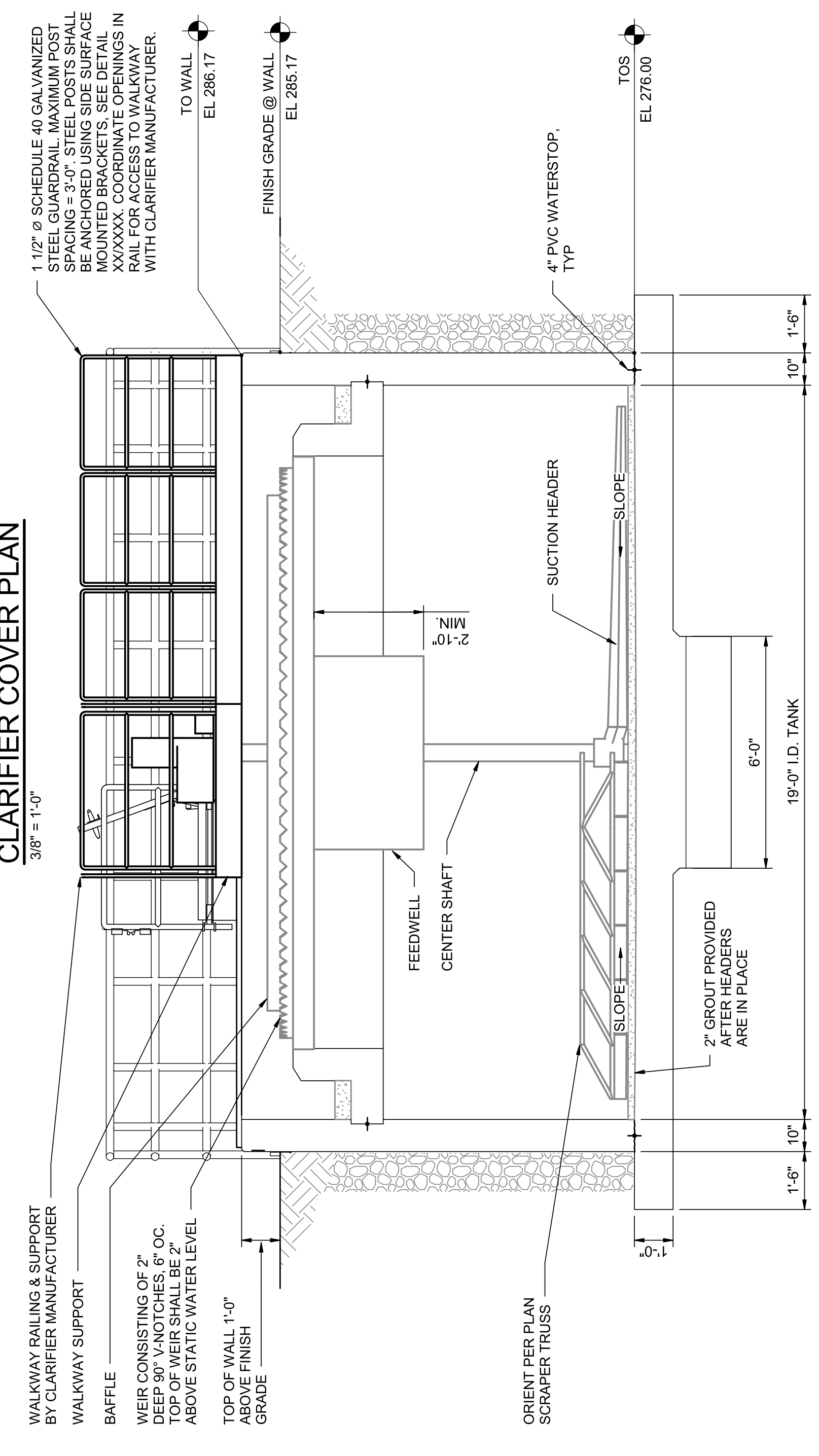
1 2 3 4 5 6 7 8



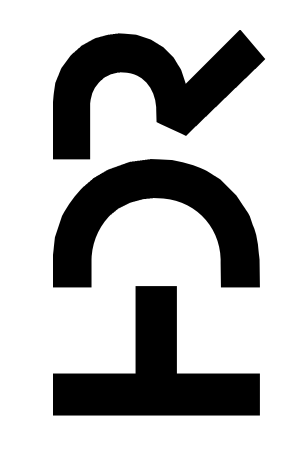
CLARIFIER PLAN
3/8" = 1'-0"



CLARIFIER COVER PLAN
3/8" = 1'-0"



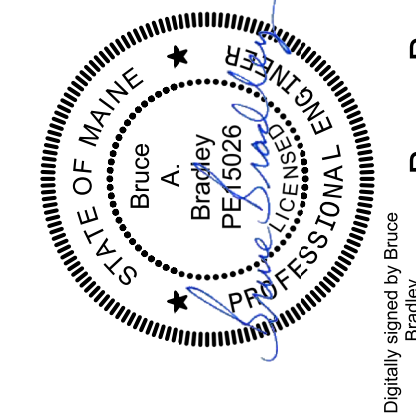
CLARIFIER SECTION
3/8" = 1'-0"



PROJECT MANAGER	ANDREW GURSKI
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ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	

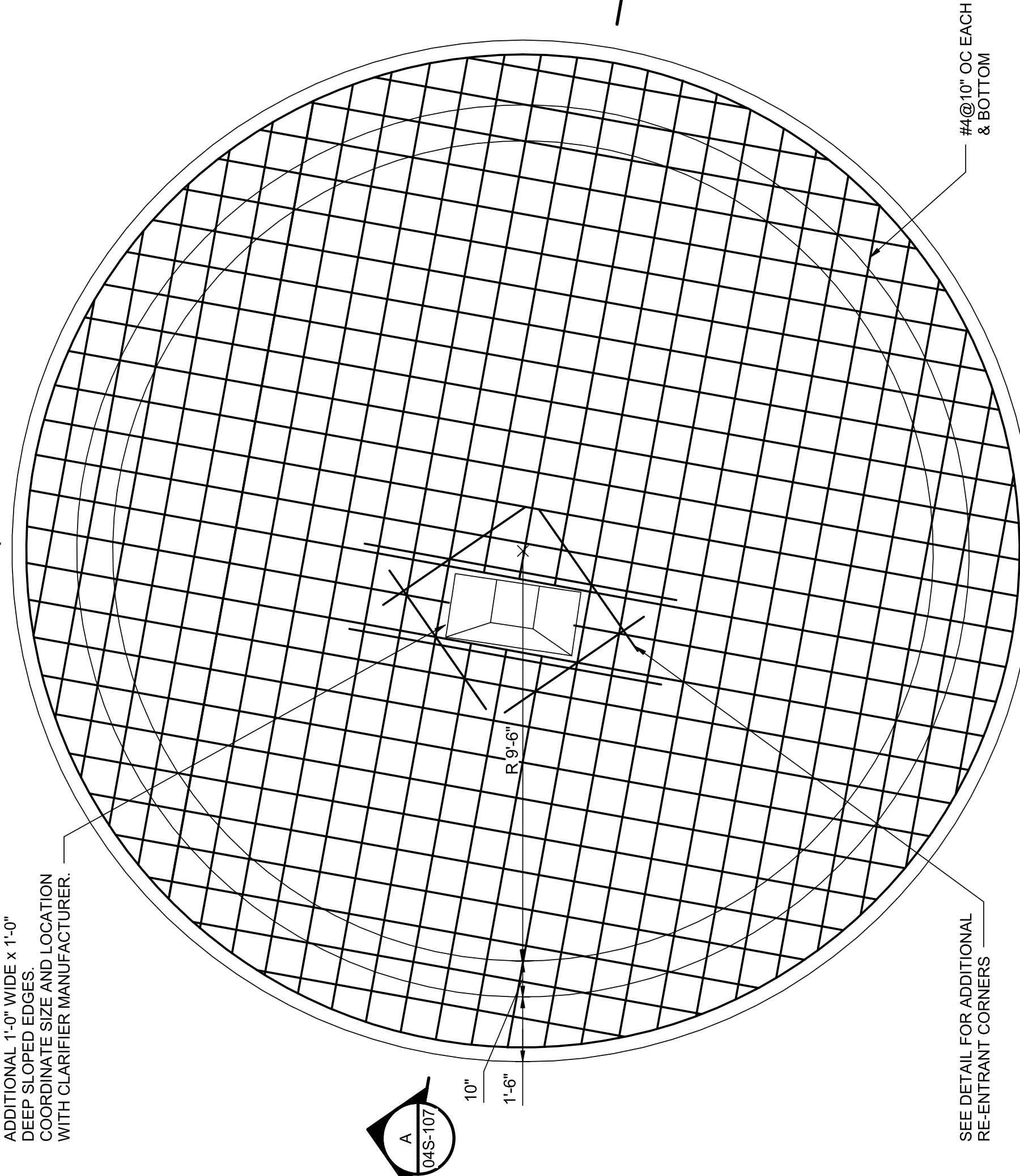
IMPROVEMENTS AT GRAND LAKE STREAM FISH HATCHERY



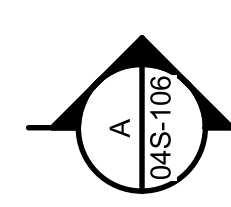
Digitally signed by Bruce Bradley
Date: 2023.07.14 16:49:00-0400
Bruce Bradley

EFFLUENT TREATMENT BUILDING CLARIFIER PLANS AND SECTION

1'-0"x1'-0" 1'-10" DEEP HOPPER. CAST THREE SIDES WITH ADDITIONAL 1'-0" WIDE x 1'-0" DEEP SLOPED EDGES. COORDINATE SIZE AND LOCATION WITH CLARIFIER MANUFACTURER.

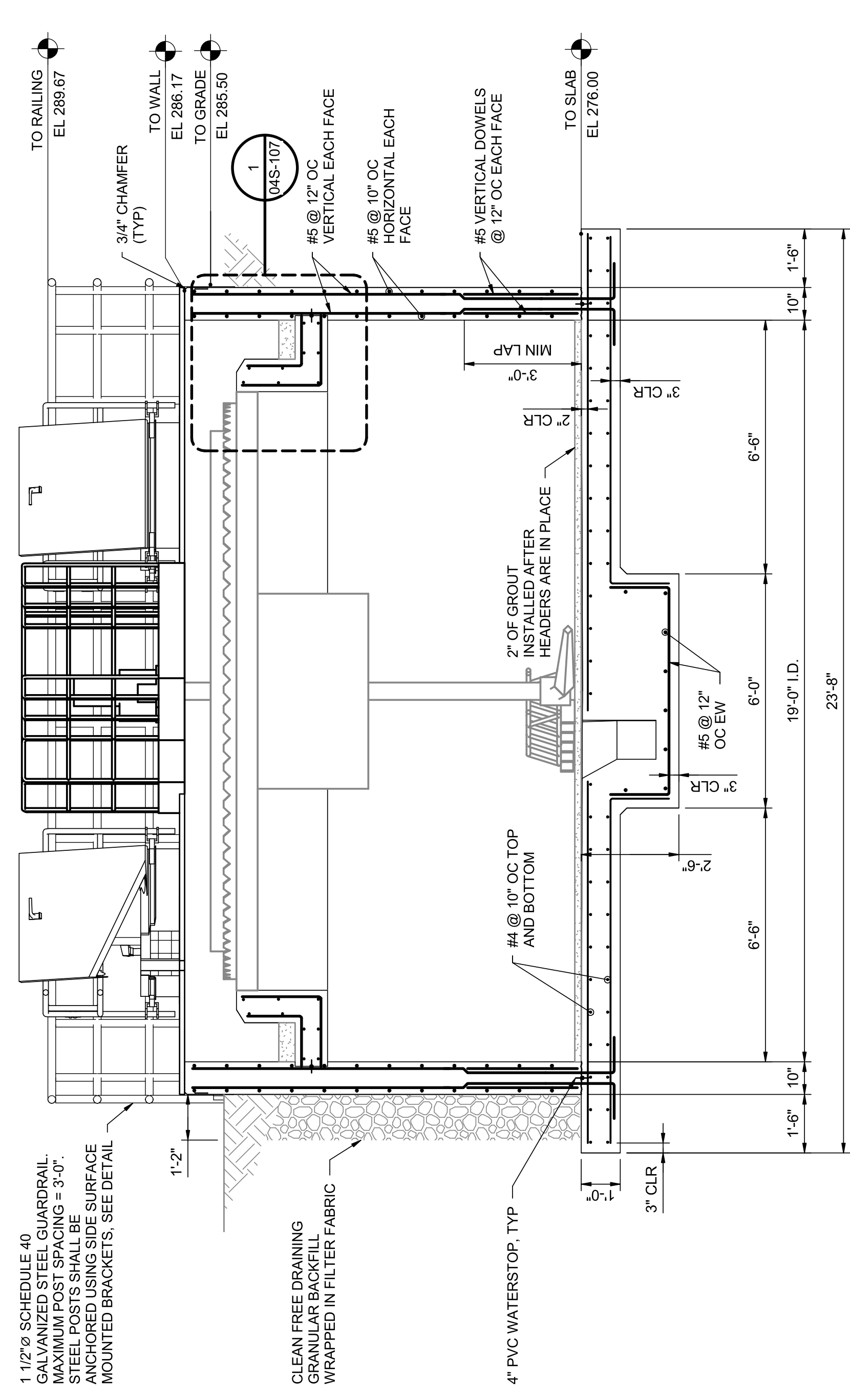


SEE DETAIL FOR ADDITIONAL RE-ENTRANT CORNERS

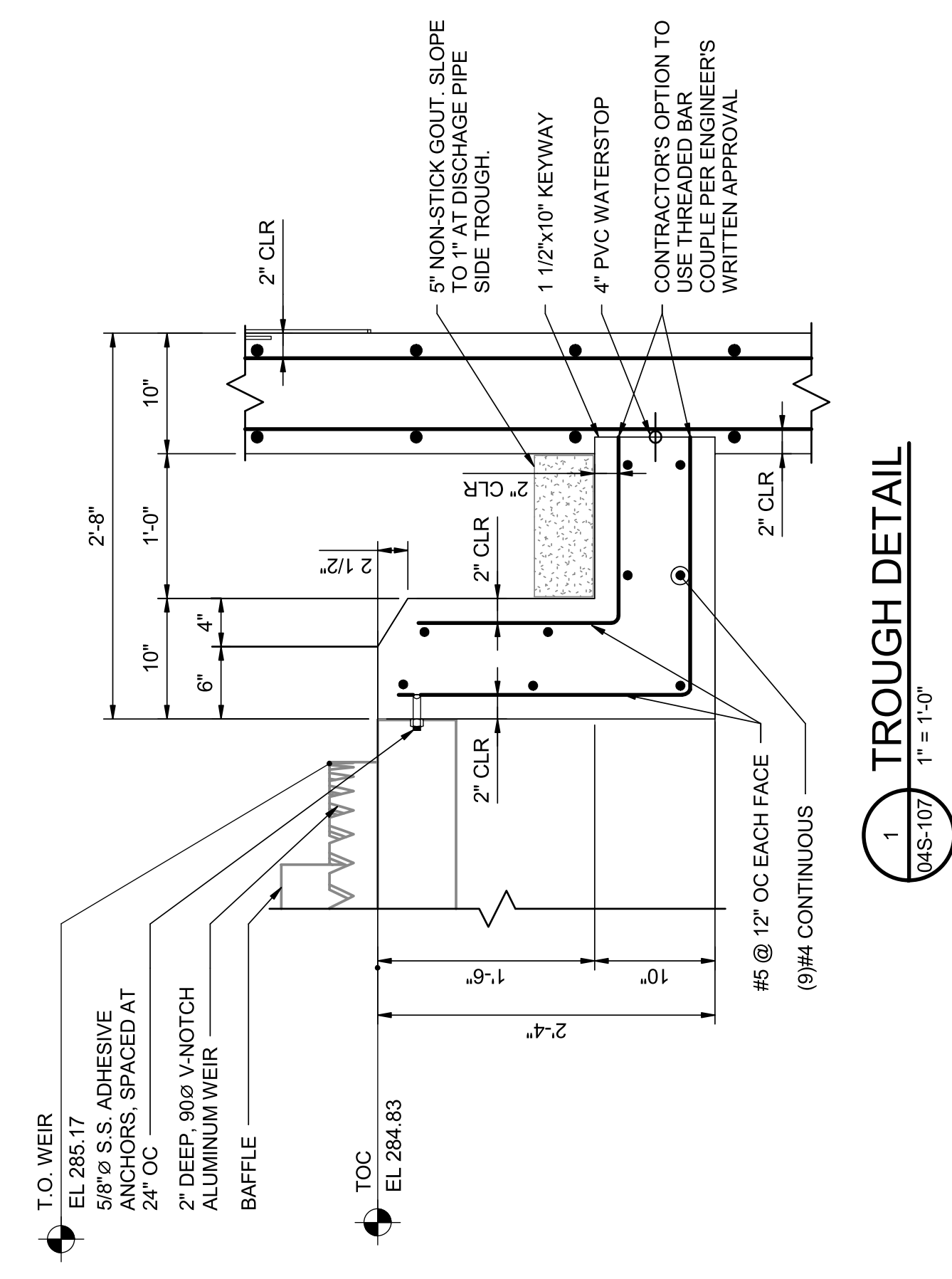


- NOTES:
- CLARIFIER CONCRETE SLAB SHALL HAVE A ROUGH BROOM FINISH.
 - SMOOTH FINISH STEEL FORMS OR SMOOTH FORM LINERS SHALL BE USED FOR ALL CLARIFIER WALLS. RACEWAY WALLS SHALL HAVE A SMOOTH SURFACE FINISH FREE FROM ABRASIONS, HOLES, PITS, FLAWS OR ANY SURFACE IRREGULARITIES AND IS NON-ABRASIVE TO TOUCH AS DETERMINED BY THE ENGINEER OR OWNER'S REPRESENTATIVE. SEE SPECIFICATION SECTION.
 - COORDINATE ALL PIPE PENETRATIONS WITH PLUMBING SHEETS.

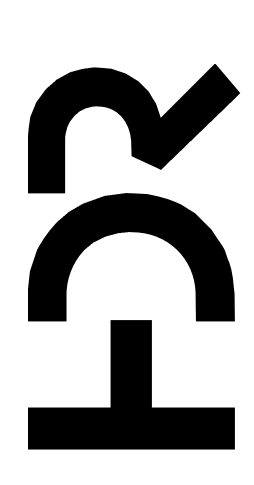
FOUNDATION PLAN
3/8" = 1'-0"



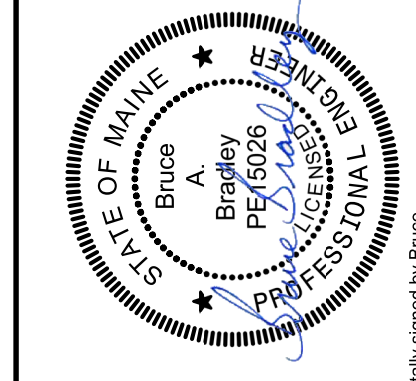
SECTION A-A
04S-106 3/8" = 1'-0"



TROUGH DETAIL
1 04S-107 1" = 1'-0"



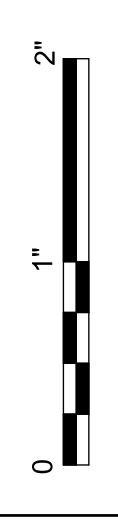
PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

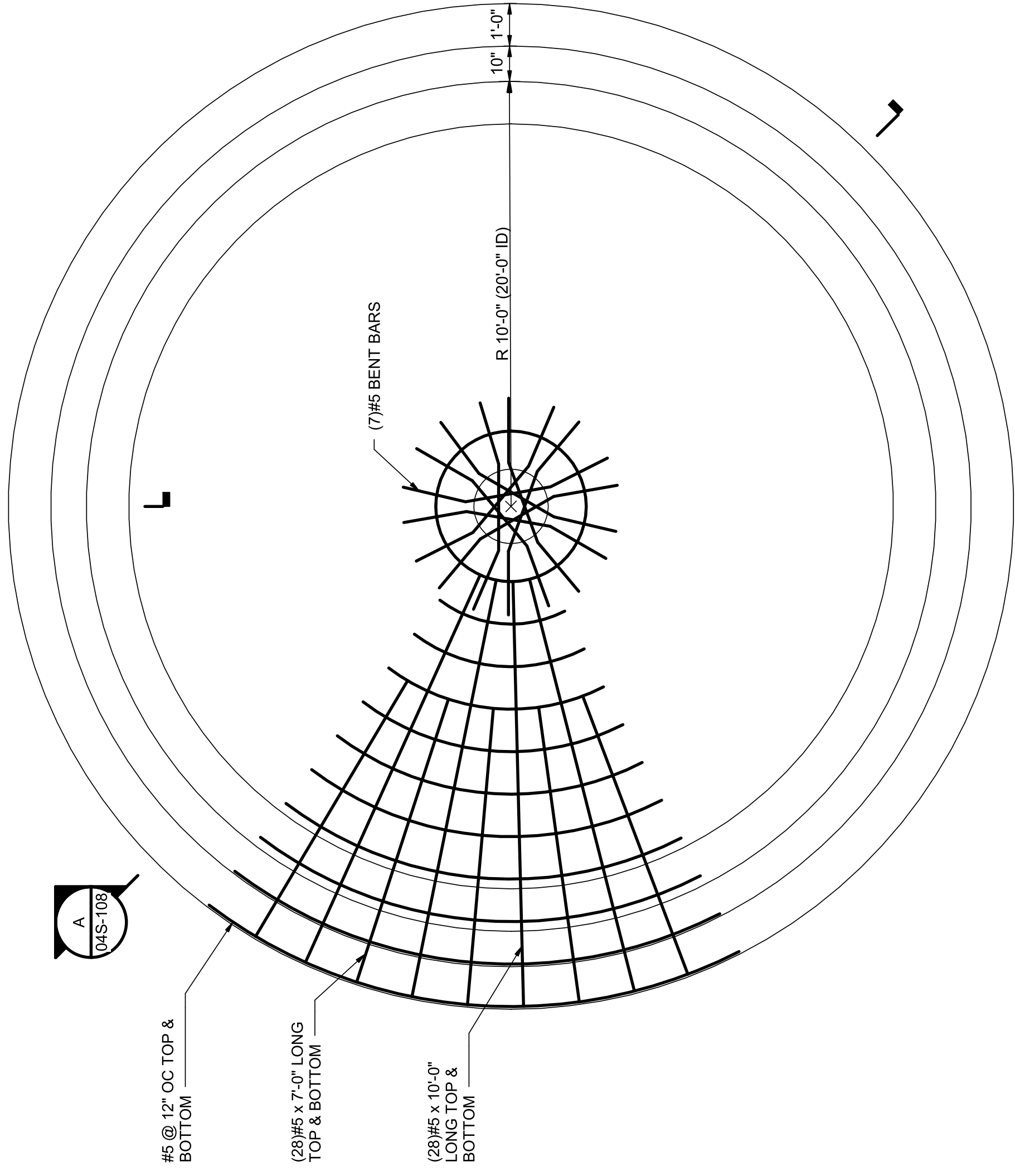


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Date: 2023.07.14 16:04:08-0400

ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	

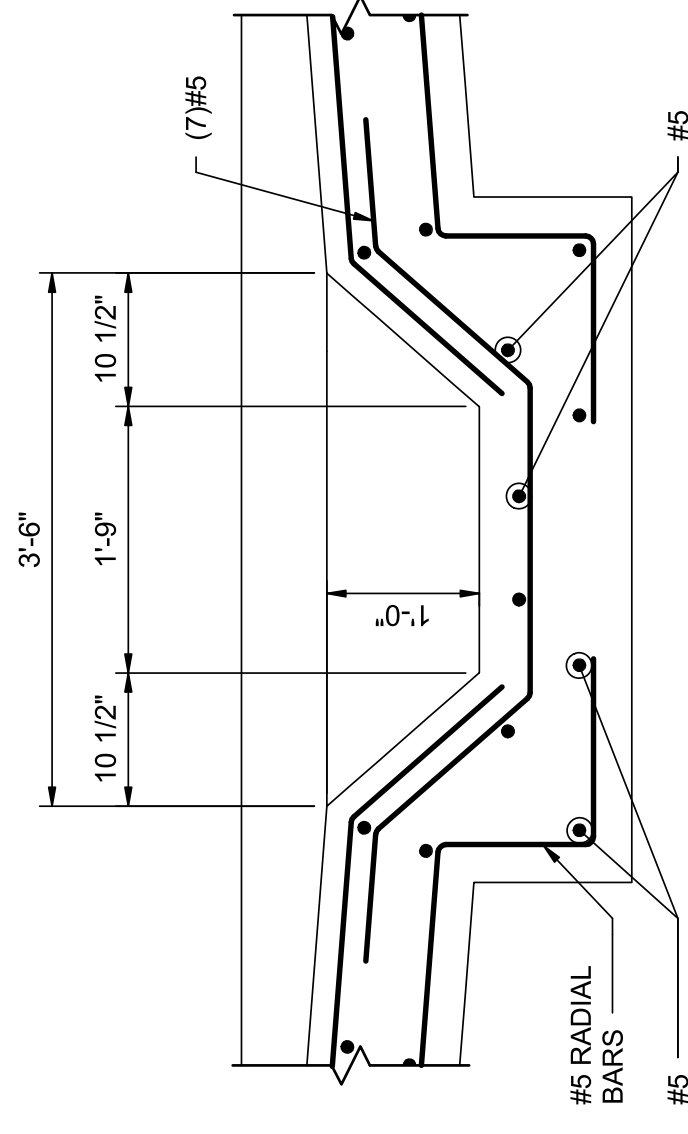
IMPROVEMENTS AT GRAND LAKE STREAM FISH HATCHERY



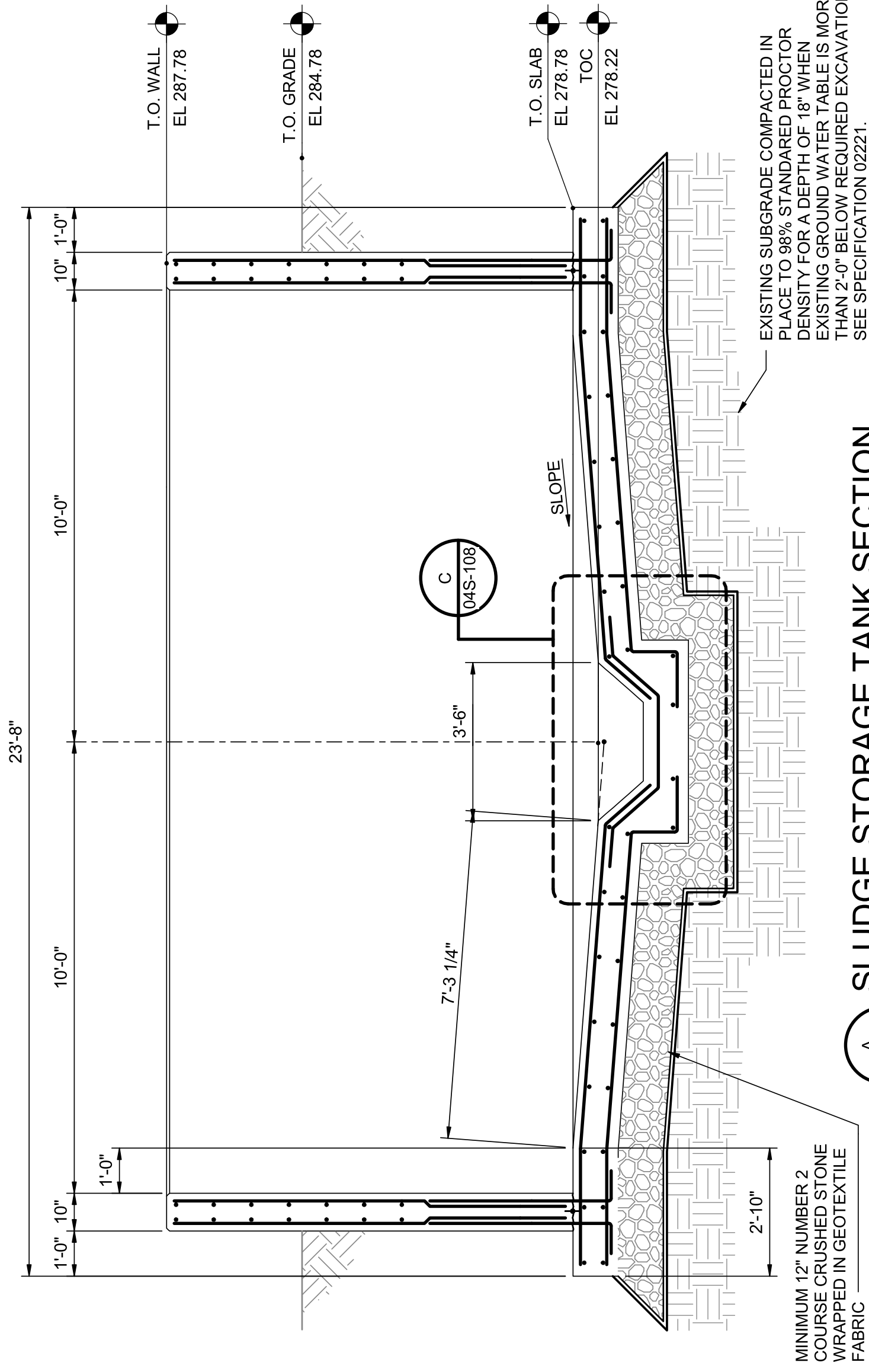


NOTES:
 1. STORAGE TANK FLOORS SHALL BE STEEL TROWEL FINISHED, EITHER BY HAND OR BY MACHINE. TO PRODUCE A DENSE, SMOOTH, HARD SURFACE.
 2. SMOOTH FINISH STEEL FORMS OR SMOOTH FORM LINERS SHALL BE USED FOR ALL SLUDGE STORAGE TANK WALLS. WALLS SHALL HAVE A SMOOTH SURFACE FINISH FREE FROM ABRASIONS, HOLES, PITS, FLAWS OR ANY SURFACE IRREGULARITIES AND IS NON-ABRASIVE TO THE TOUCH AS DETERMINED BY THE ENGINEER OR OWNER'S REPRESENTATIVE. SEE SPECIFICATION SECTION 03002.
 3. COORDINATE ALL PIPE PENETRATIONS WITH PLUMBING SHEETS.

SLUDGE STORAGE TANK PLAN
 3/8" = 1'-0"



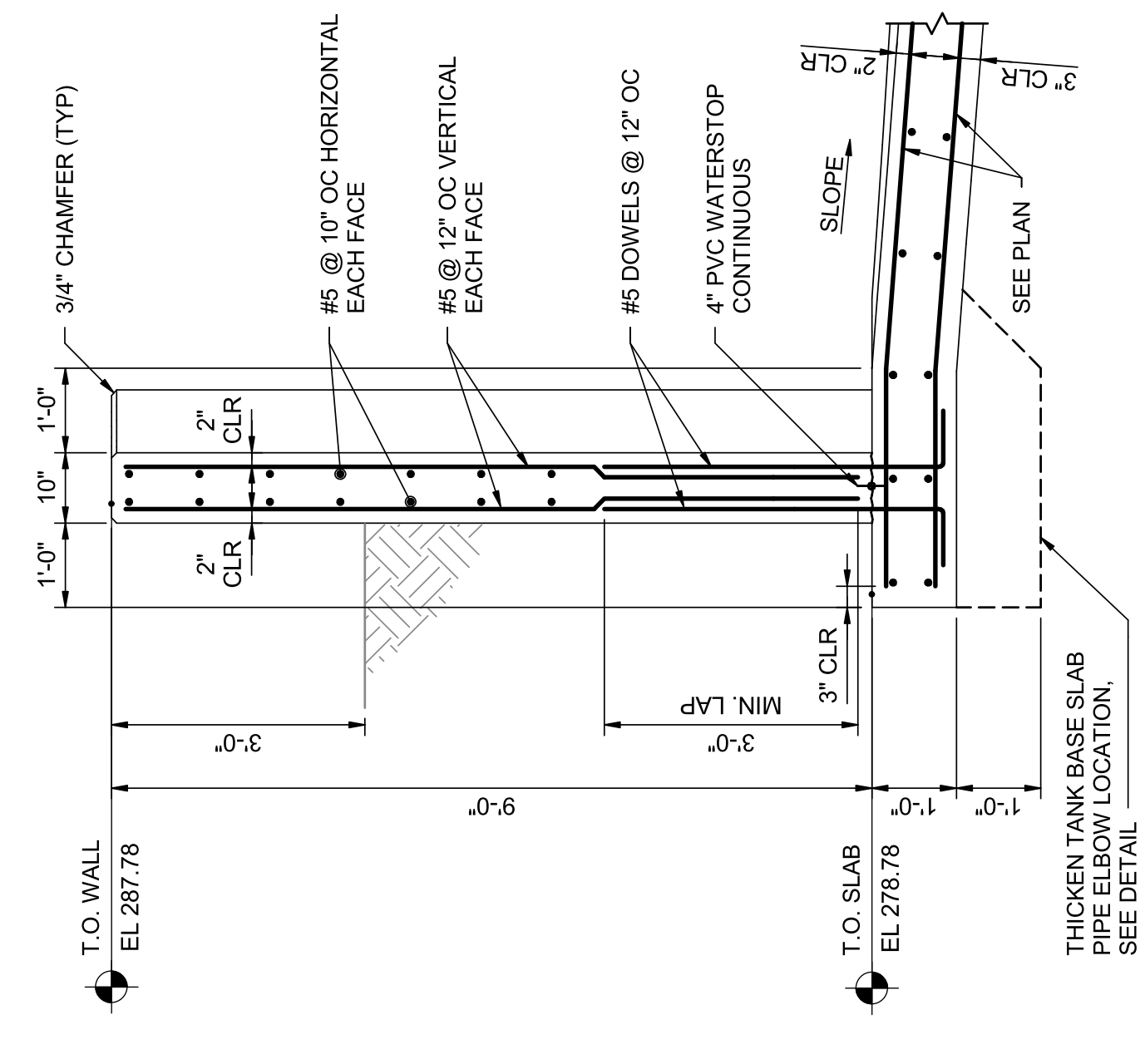
C SECTION
 3/4" = 1'-0"



A SLUDGE STORAGE TANK SECTION
 3/8" = 1'-0"

EXISTING SUBGRADE COMPACTED IN PLACE TO 95% RELATIVE DENSITY OR MORE. EXISTING GROUND WATER TABLE IS MORE THAN 2'-0" BELOW REQUIRED EXCAVATION. SEE SPECIFICATION 02221.

MINIMUM 12" NUMBER 2 COURSE CRUSHED STONE WRAPPED IN GEOTEXTILE FABRIC



B WALL SECTION
 1/2" = 1'-0"

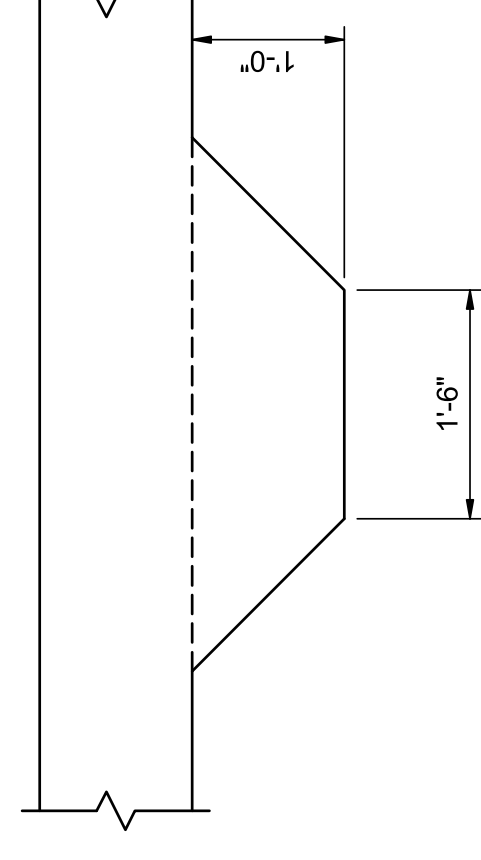
THICKEN TANK BASE SLAB PIPE ELBOW LOCATION. SEE DETAIL

HORIZONTAL SPLICES SHALL BE STAGGERED A MINIMUM OF 3'-0" CENTER TO CENTER OF SPLICE. MINIMUM SPLICE LENGTH = 2'-6".

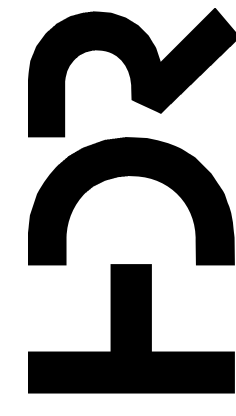


2 WALL ELEVATION SHOWING REINFORCING
 3/8" = 1'-0"

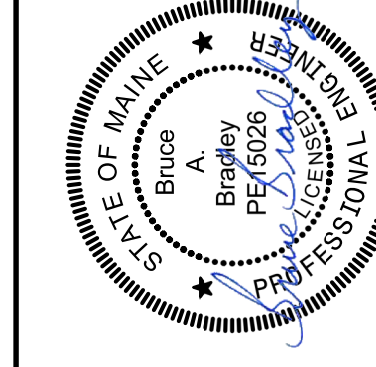
HORIZONTAL SPLICES SHALL NOT COINCIDE IN VERTICAL ARRAYS MORE FREQUENT THAN EVERY THIRD BAR.



1 SECTION AT EMBEDDED PIPE ELBOW
 3/4" = 1'-0"



PROJECT MANAGER	ANDREW GURSKI
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ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



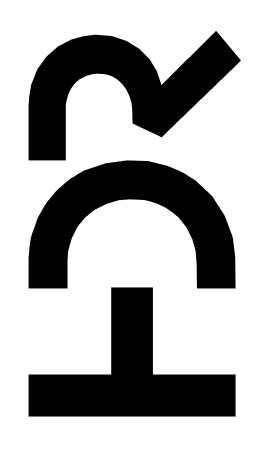
Digitally signed by Bruce Bradley
 Date: 2023.07.14 16:04:19-0400
 Bruce Bradley

IMPROVEMENTS AT GRAND LAKE STREAM FISH HATCHERY

**EFFLUENT TREATMENT BUILDING
 SLUDGE STORAGE TANK PLAN, SECTIONS AND DETAILS**

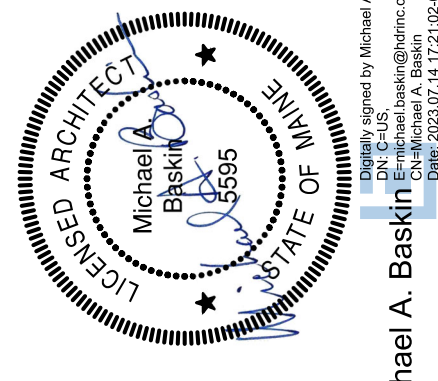
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 FILENAME 10357686-04-S.rvt
 SHEET **04S-108**

ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	



ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

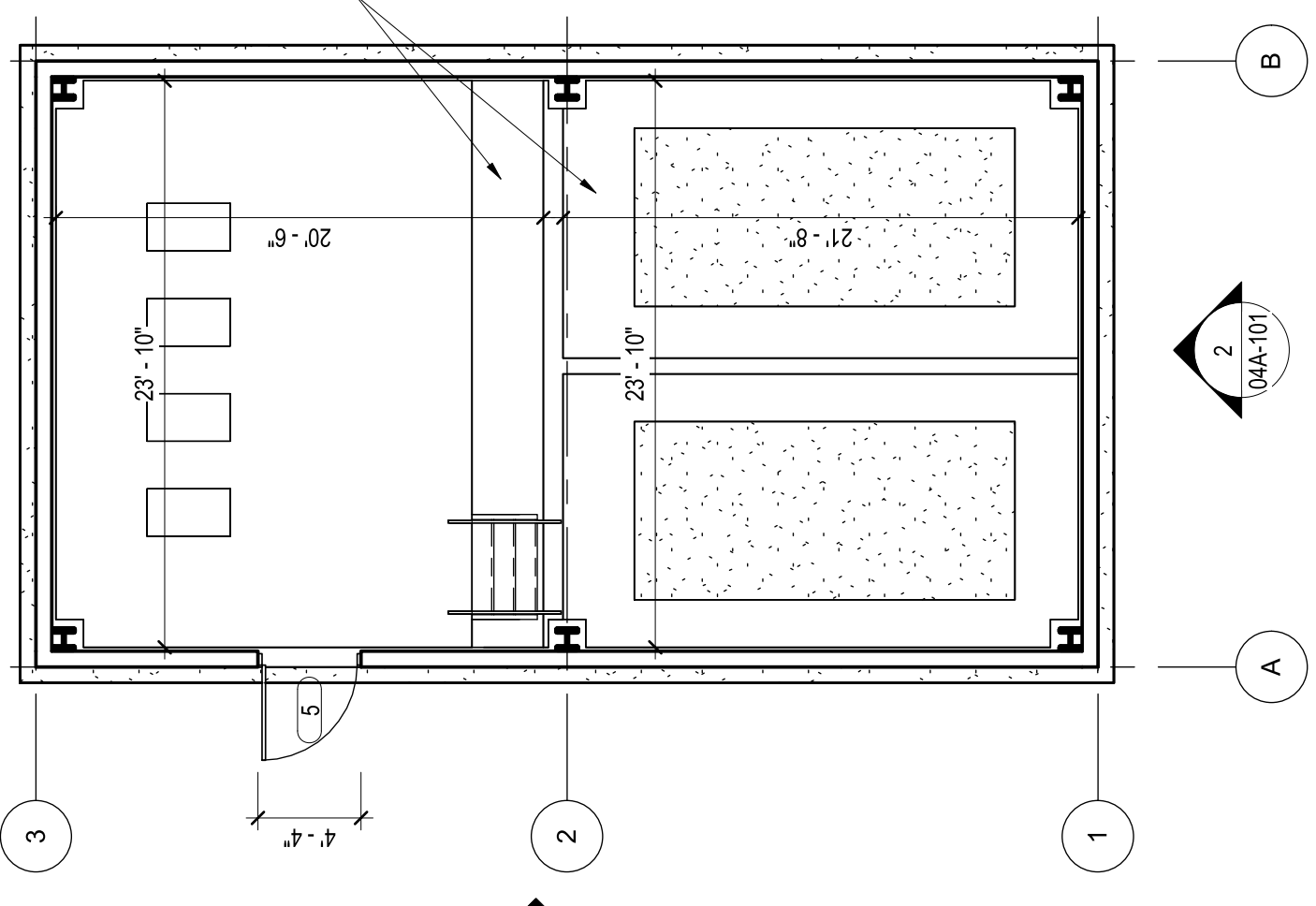
PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



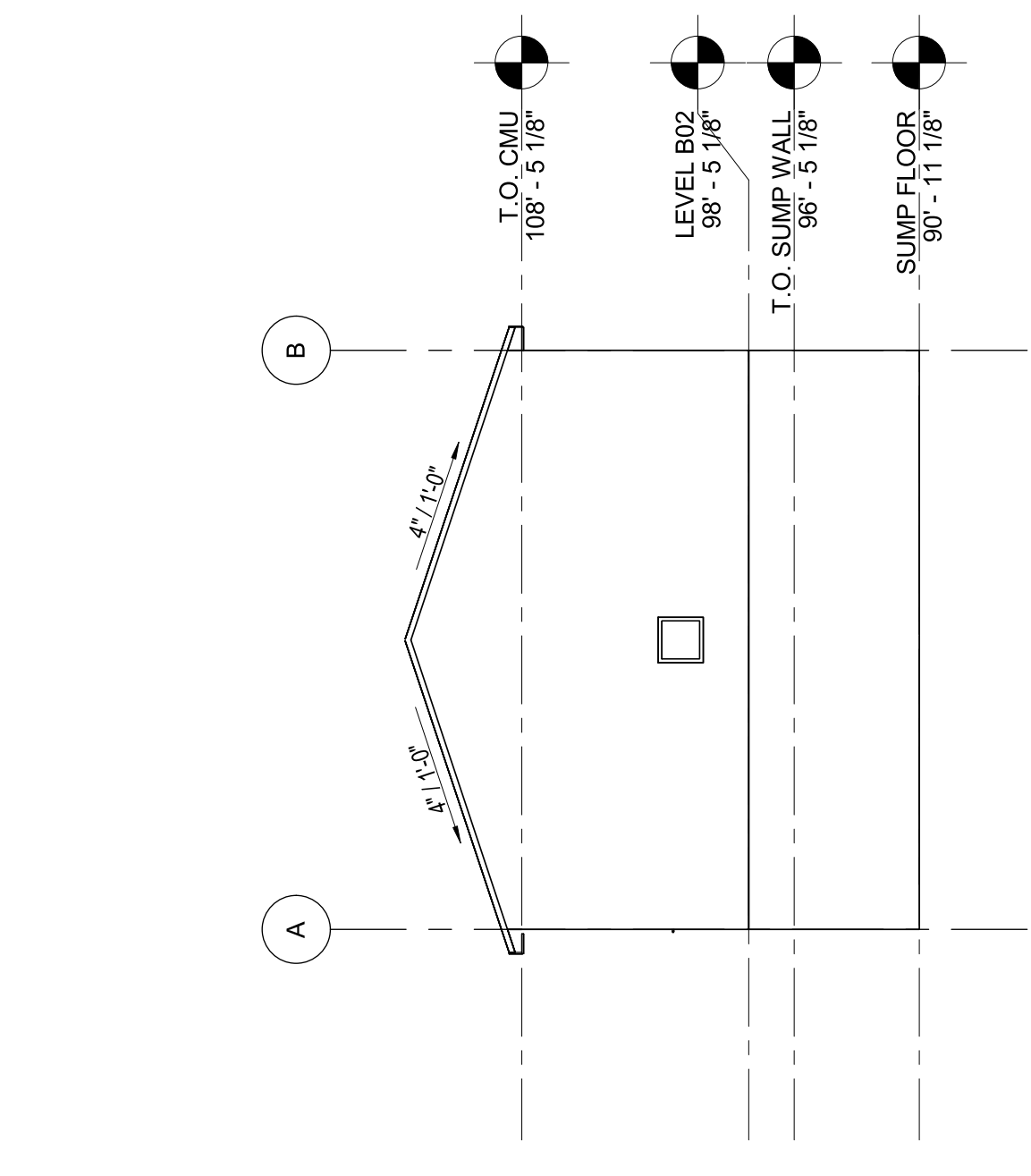
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

EFFLUENT TREATMENT BUILDING PLAN AND ELEVATIONS

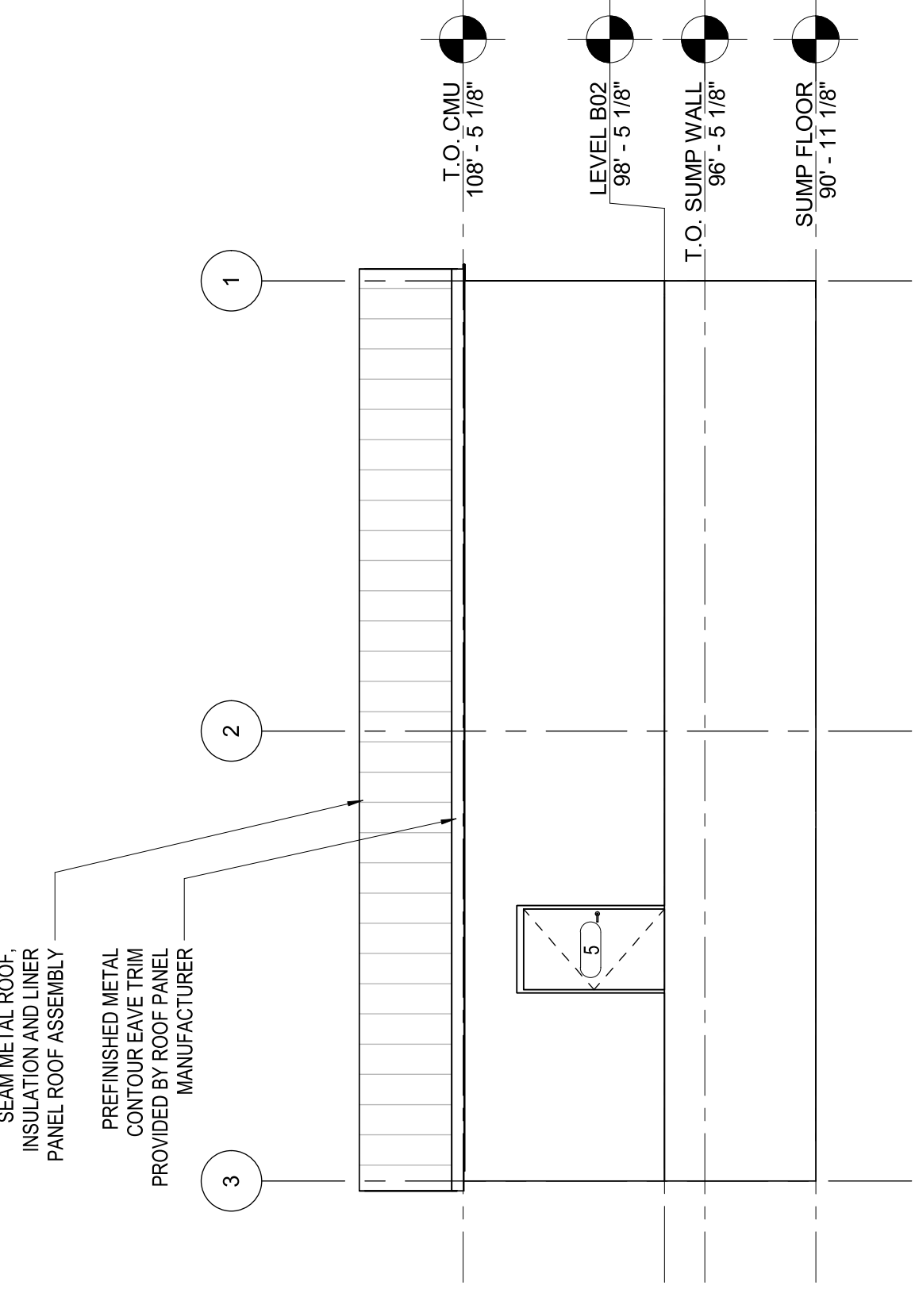
SCALE 1/8" = 1'-0"
 FILENAME 04A-101
 SHEET 04A-101



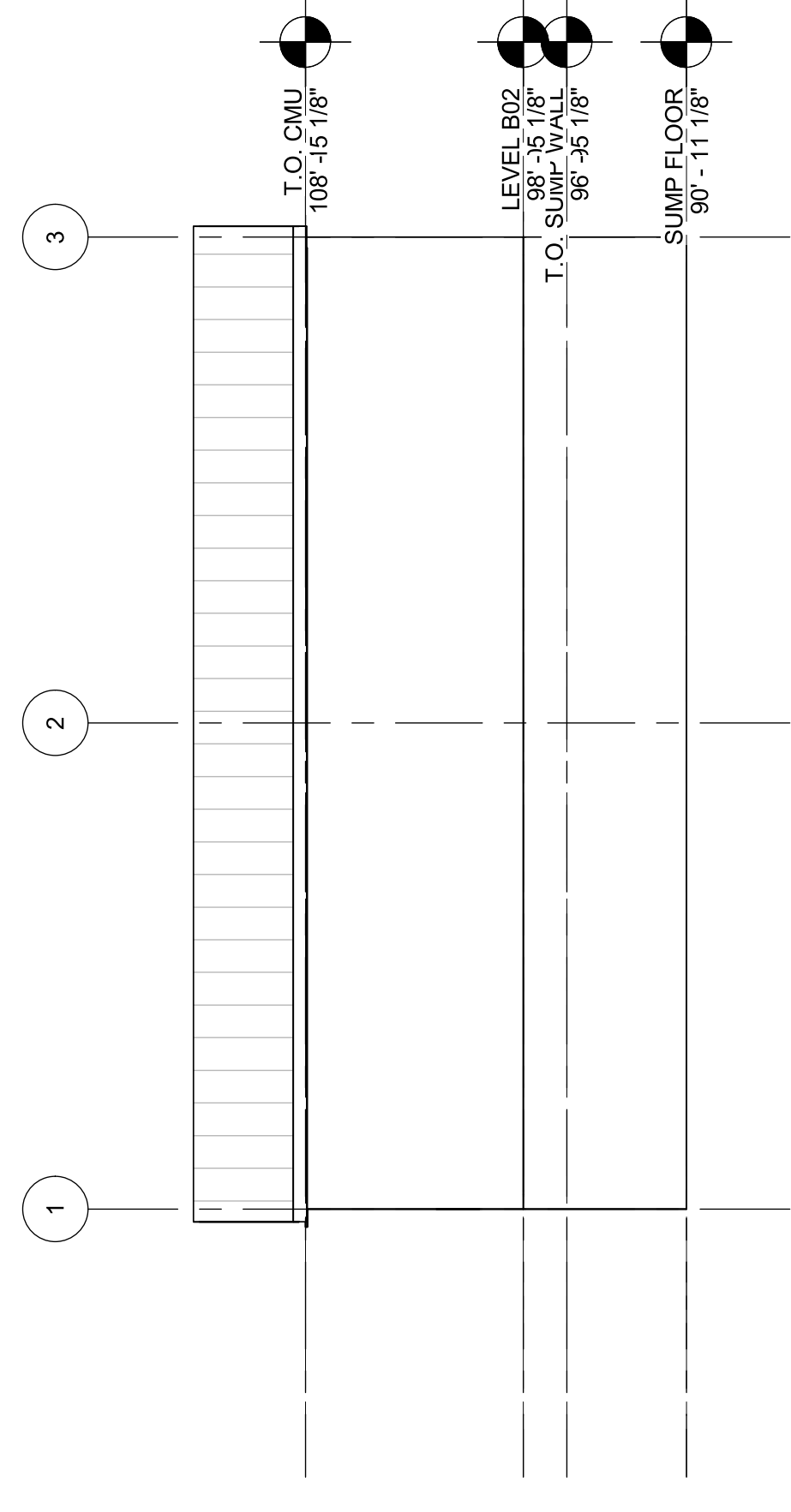
1 DRUMFILTER PLAN
1/8" = 1'-0"



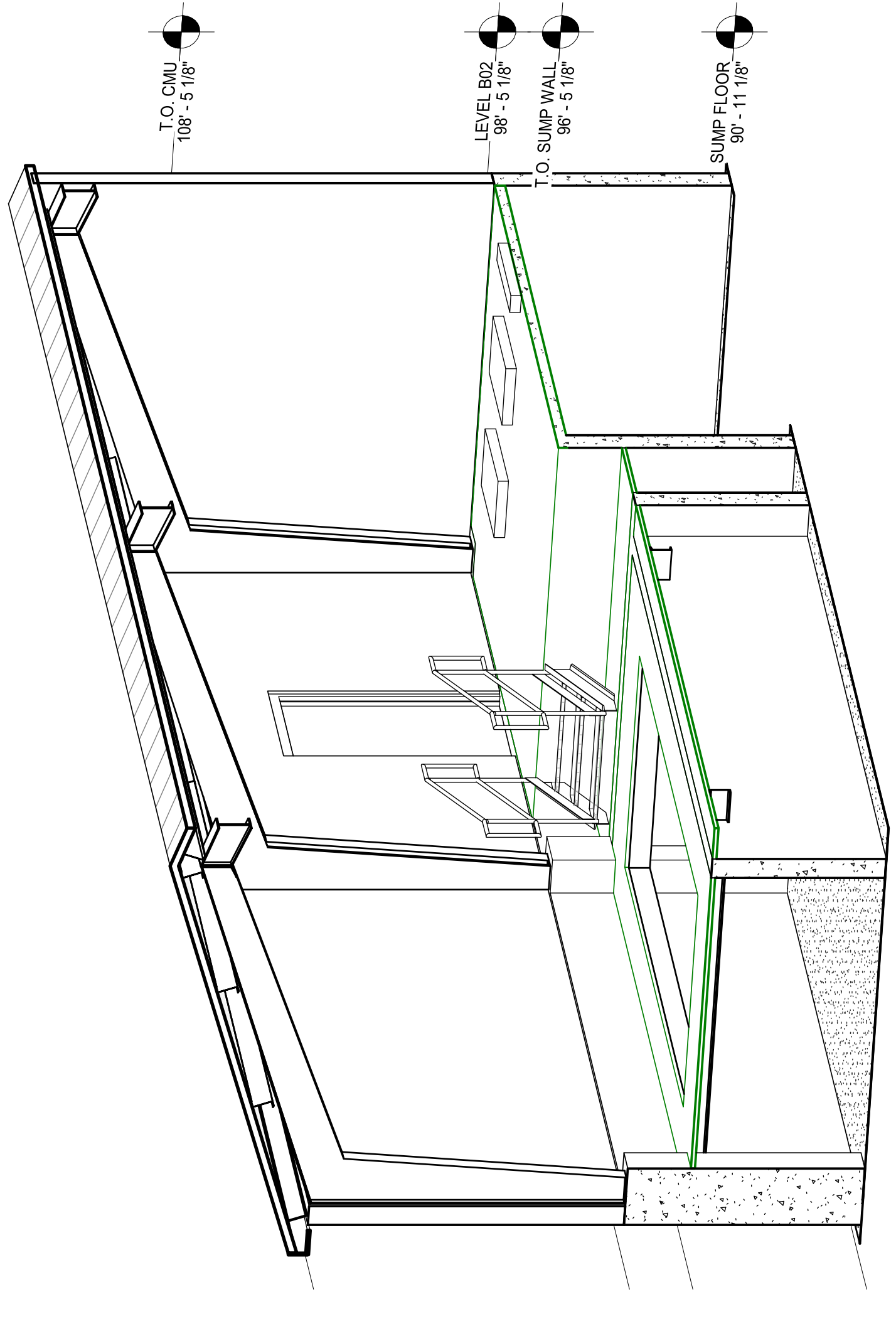
2 SOUTH ELEVATION
1/8" = 1'-0"



3 WEST ELEVATION
1/8" = 1'-0"



4 EAST ELEVATION
1/8" = 1'-0"



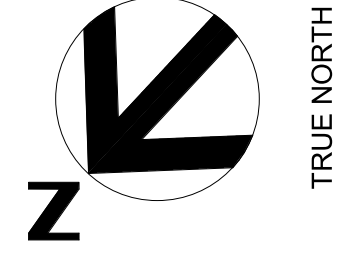
5 3D VIEW

LEVEL	IDENTIFICATION		DIMENSIONS		DOOR AND FRAME SCHEDULE		PANEL		FRAME		HARDWARE		NOTES	
	ROOM NO.	ROOM NAME	DOOR NO.	DOOR TYPE	DOOR TYPE	FRAME Material	Finish	Fire Rating	Group	Material	Finish	Fire Rating		Group
T.O. SLAB	400	UPPER LEVEL	5	-	4'-0"	7'-0"	D03	1 3/4"	METAL PAINTED	F05	METAL PAINTED	N/A	2	

- GENERAL NOTES:**
- FURNISH AND INSTALL ANTI-SLIP RUBBER RUNNER MATS COVERING ENTIRE GRATING/FLOOR. RUBBER MATS SHALL BE 1/8" THICK (MINIMUM), BLACK, WITH STANDARD "V" GROOVES, CLOSELY SPACED. PROVIDE 4 FOOT WIDE ROLLS IN CONTINUOUS LENGTH. RECORD COVER FLOOR, PLACE SEAMS IN APPROPRIATE LOCATIONS TO AVOID TRIPPING HAZARDS. AVOID SMALL AND NARROW CUTS.

PREFINISHED STANDING SEAM METAL ROOF INSULATION AND LINER PANEL ROOF ASSEMBLY PROVIDED BY ROOF PANEL MANUFACTURER

RUBBER MAT OVER GRATING SHOWN ON STRUCTURAL SHEET 04S-102



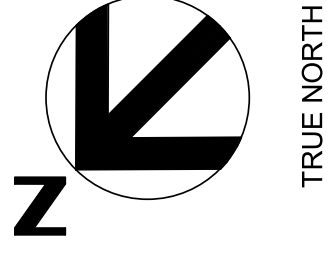
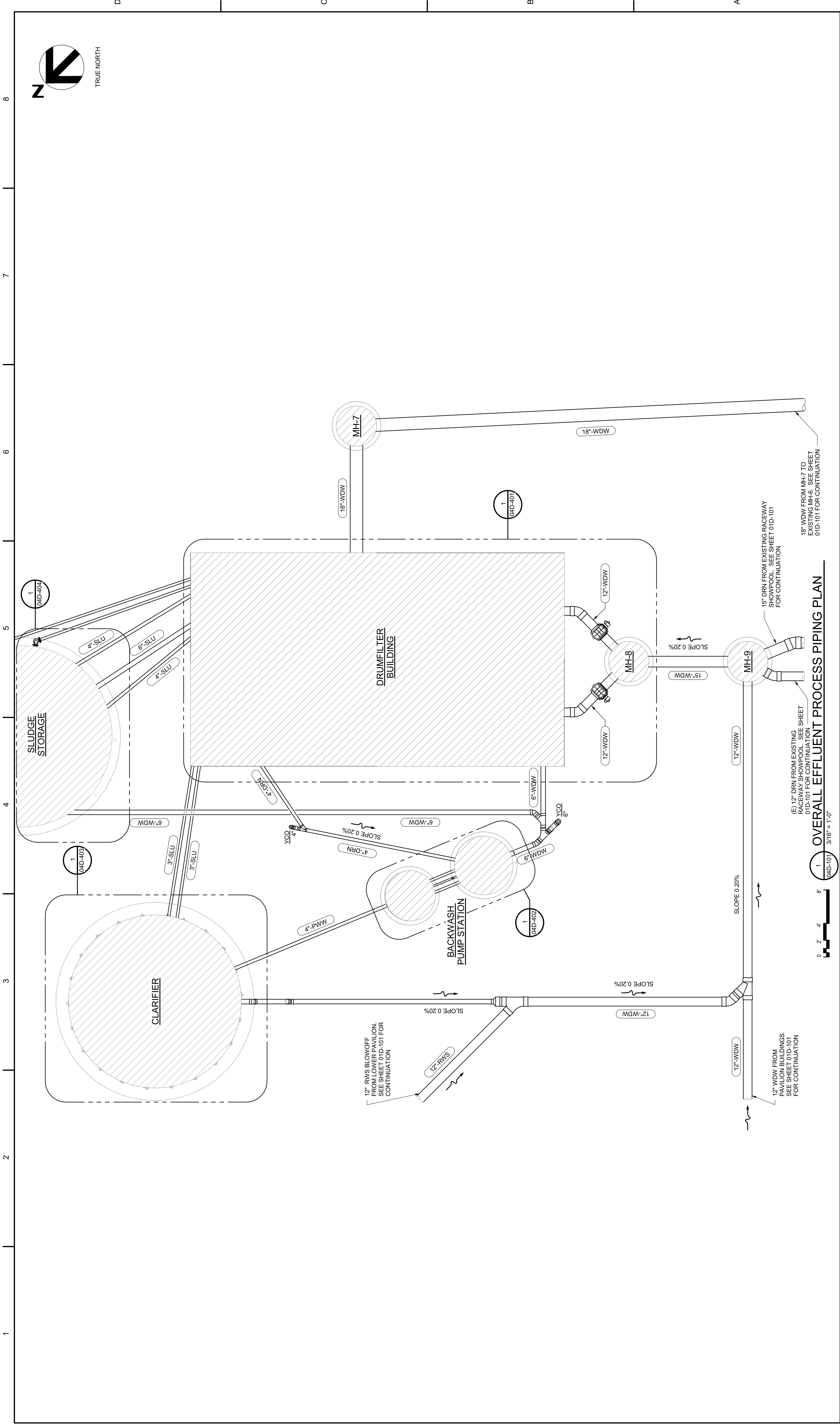
1 2 3 4 5 6 7 8

D

C

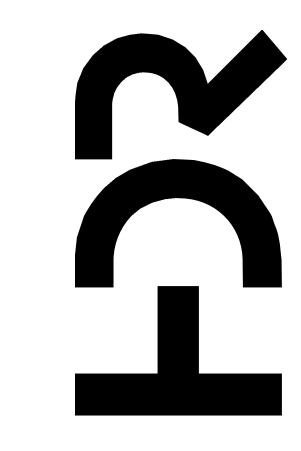
B

A



1 2 3 4 5 6 7 8

A B C D



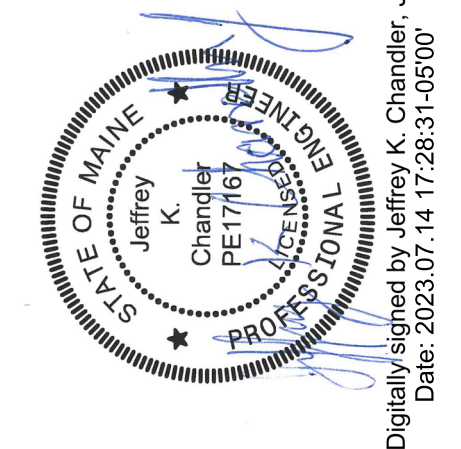
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

OVERALL EFFLUENT PROCESS PIPING PLAN

SCALE 3/16" = 1'-0"

FILENAME 10357686-04-D.rvt

SHEET **04D-101**



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Date: 2023.07.14 17:28:31-05'00'

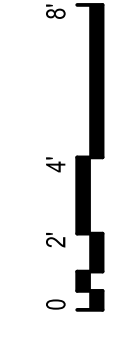
PROJECT MANAGER ANDREW GURSKI

CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER

ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

OVERALL EFFLUENT PROCESS PIPING PLAN

1 04D-101 3/16" = 1'-0"



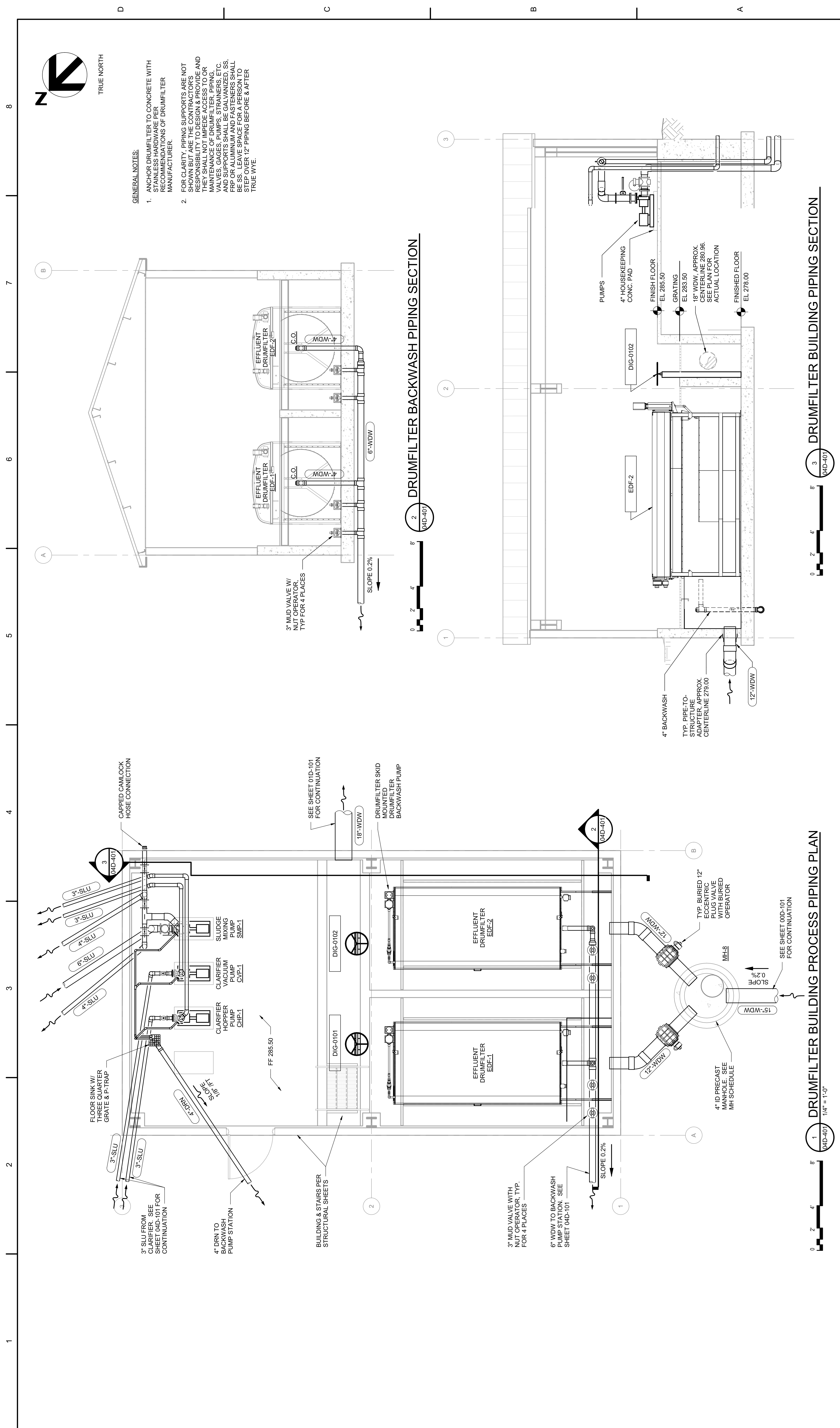
(E) 12" DRN FROM EXISTING RACEWAY SHOWPOOL. SEE SHEET 01D-101 FOR CONTINUATION

15" DRN FROM EXISTING RACEWAY SHOWPOOL. SEE SHEET 01D-101 FOR CONTINUATION

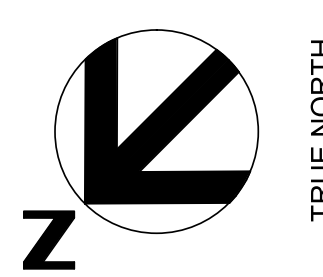
18" WDW FROM MH-7 TO EXISTING MH-6. SEE SHEET 01D-101 FOR CONTINUATION

12" WDW FROM EXISTING BUILDINGS. SEE SHEET 01D-101 FOR CONTINUATION

12" RWS BLOWOFF FROM LOWER PAVILION. SEE SHEET 01D-101 FOR CONTINUATION



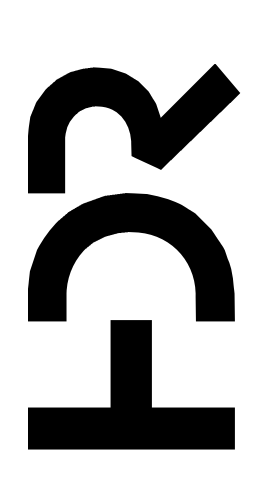
- GENERAL NOTES:**
- ANCHOR DRUMFILTER TO CONCRETE WITH STAINLESS HARDWARE PER RECOMMENDATIONS OF DRUMFILTER MANUFACTURER.
 - FOR CLARITY, PIPING SUPPORTS ARE NOT SHOWN BUT ARE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN & PROVIDE AND THEY SHALL NOT IMPEDE ACCESS TO OR MAINTENANCE OF DRUMFILTER, PIPING, VALVES, GAGES, PUMPS, STRAINERS, ETC. AND SUPPORTS SHALL BE GALVANIZED, SS, FRP OR ALUMINUM AND FASTENERS SHALL BE SS. LEAVE SPACE FOR A PERSON TO BESS. LEAVE 12" PIPING BEFORE & AFTER TRUE WYE.



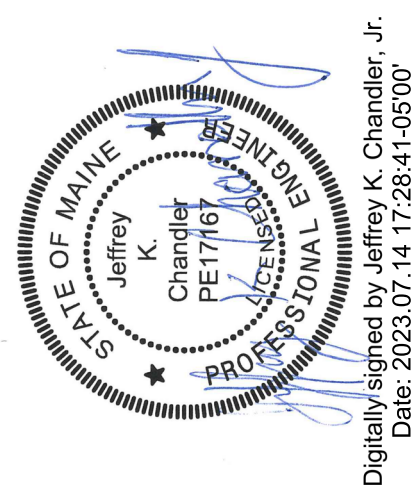
1 DRUMFILTER BUILDING PROCESS PIPING PLAN
 1/4" = 1'-0"

2 DRUMFILTER BACKWASH PIPING SECTION
 1/4" = 1'-0"

3 DRUMFILTER BUILDING PIPING SECTION
 1/4" = 1'-0"



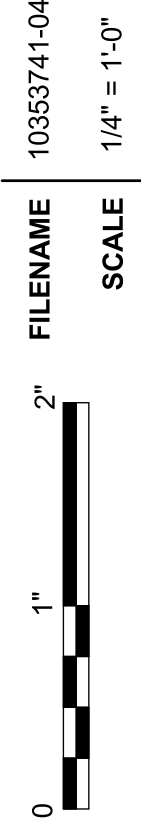
PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER



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 Date: 2023.07.14 17:28:41-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

SHEET **04D-401**

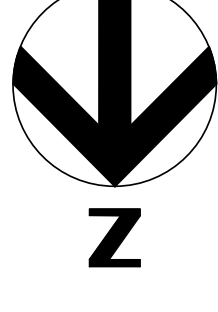


FILENAME 10357686-04-D.rvt
 SCALE 1/4" = 1'-0"

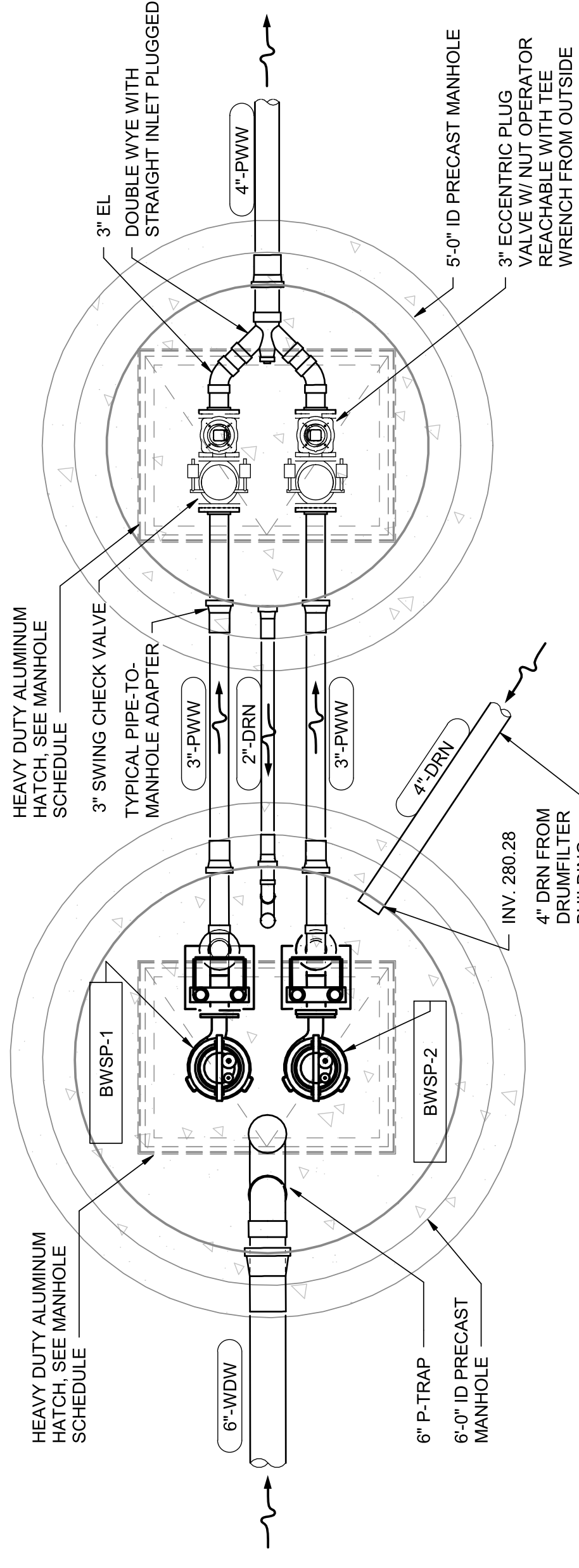
ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

PROJECT NUMBER 10357686

1 2 3 4 5 6 7 8

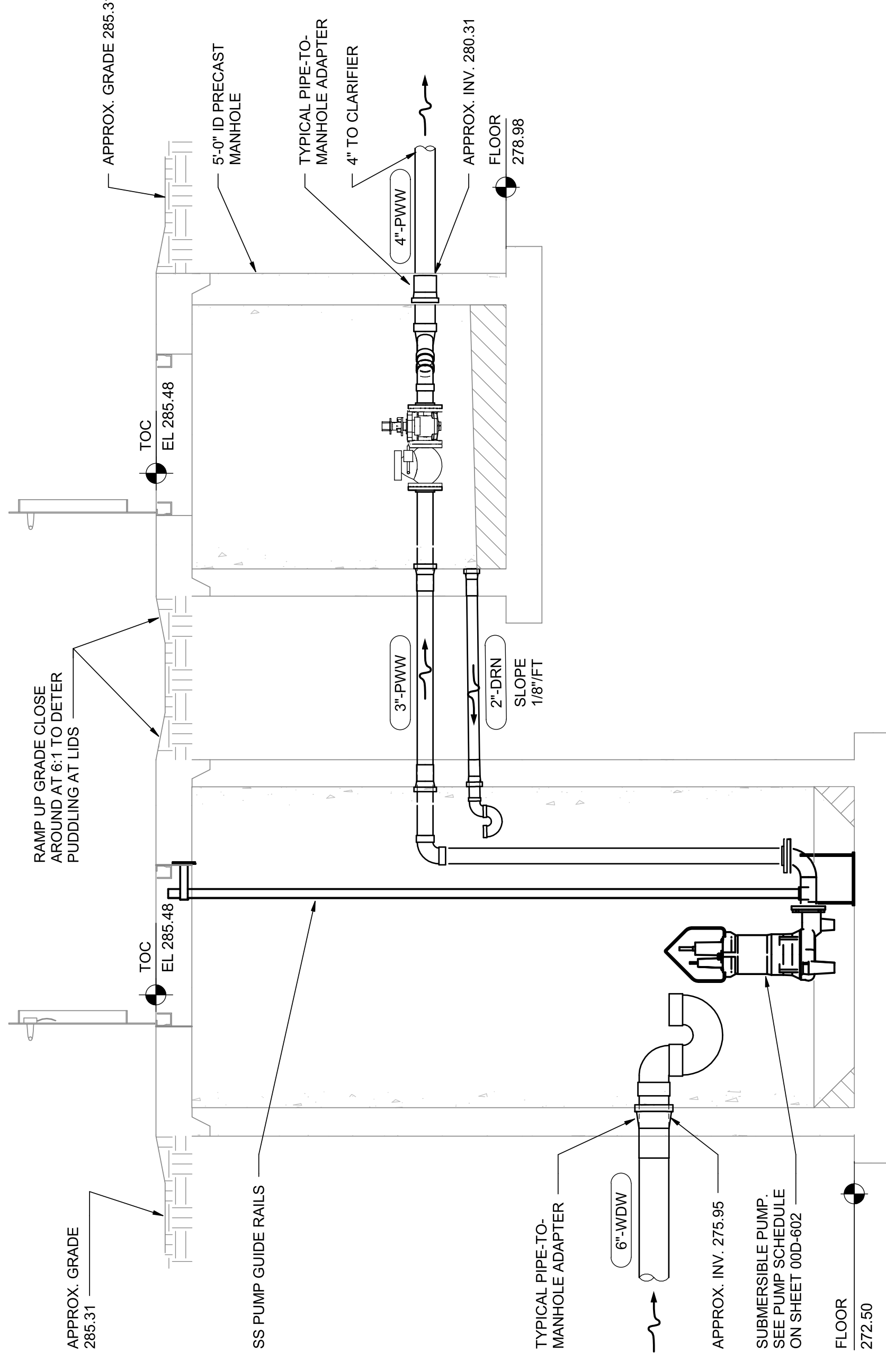


TRUE NORTH



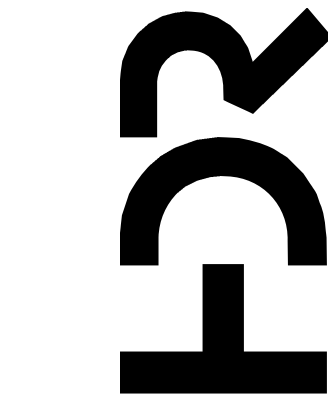
1 BACKWASH PUMP STATION PIPING PLAN

0 1' 2' 4' 1/2" = 1'-0"

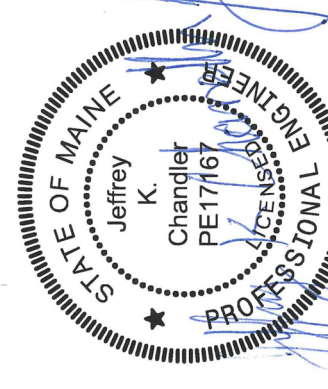


2 BACKWASH PUMP STATION PROCESS PIPING SECTION

0 1' 2' 4' 1/2" = 1'-0"



PROJECT MANAGER	ANDREW GURSKI
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PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



Digitally signed by Jeffrey K. Chandler, Jr.
Date: 2023.07.14 17:28:49-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

BACKWASH PUMP STATION PROCESS PIPING PLAN & SECTION

FILENAME 1035741-04-D.rvt
SCALE 1/2" = 1'-0"
SHEET 04D-402

ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

1

2

3

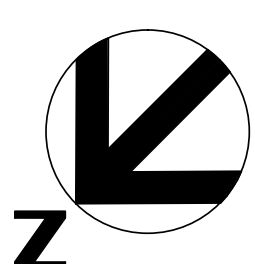
4

5

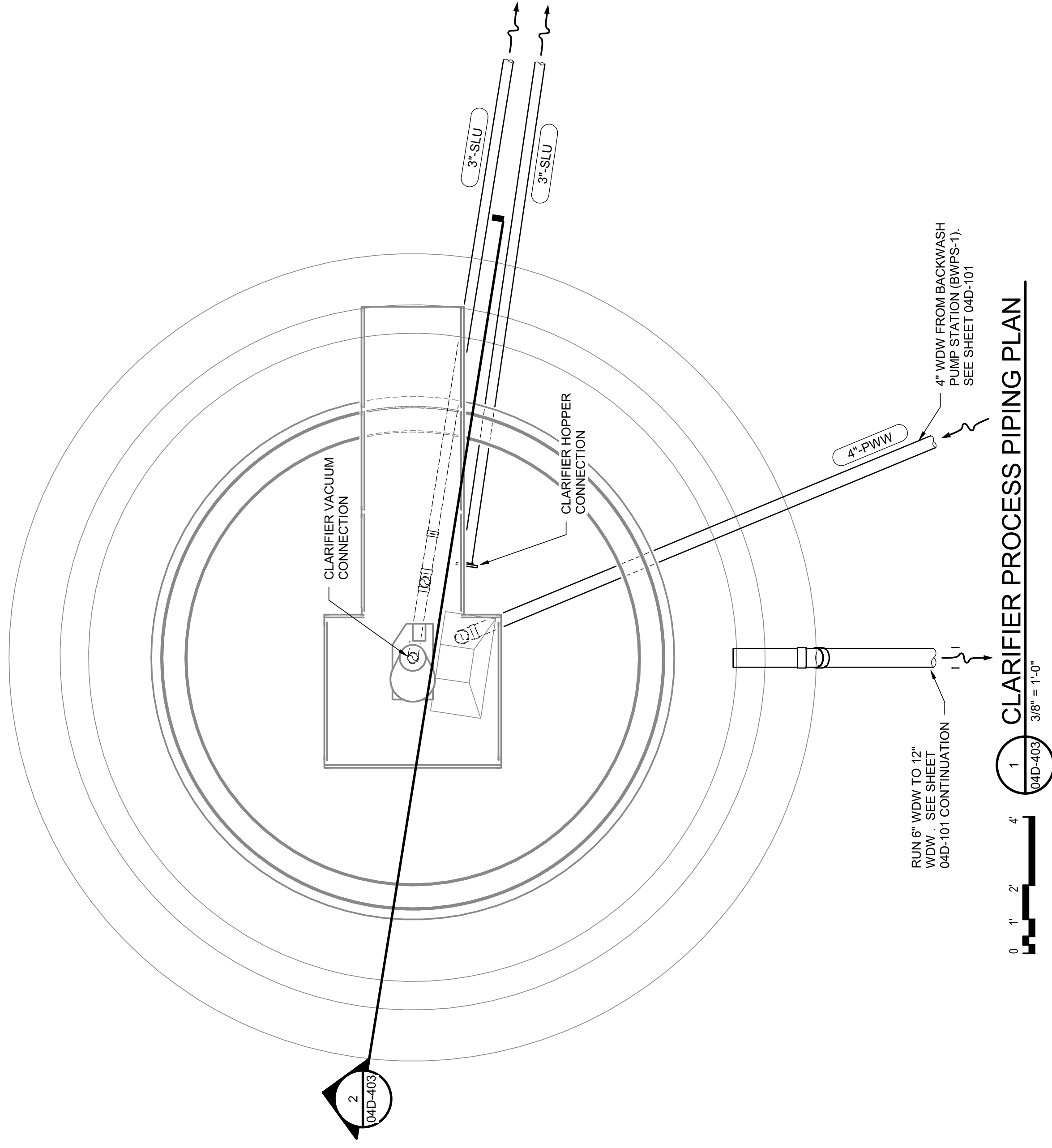
6

7

8



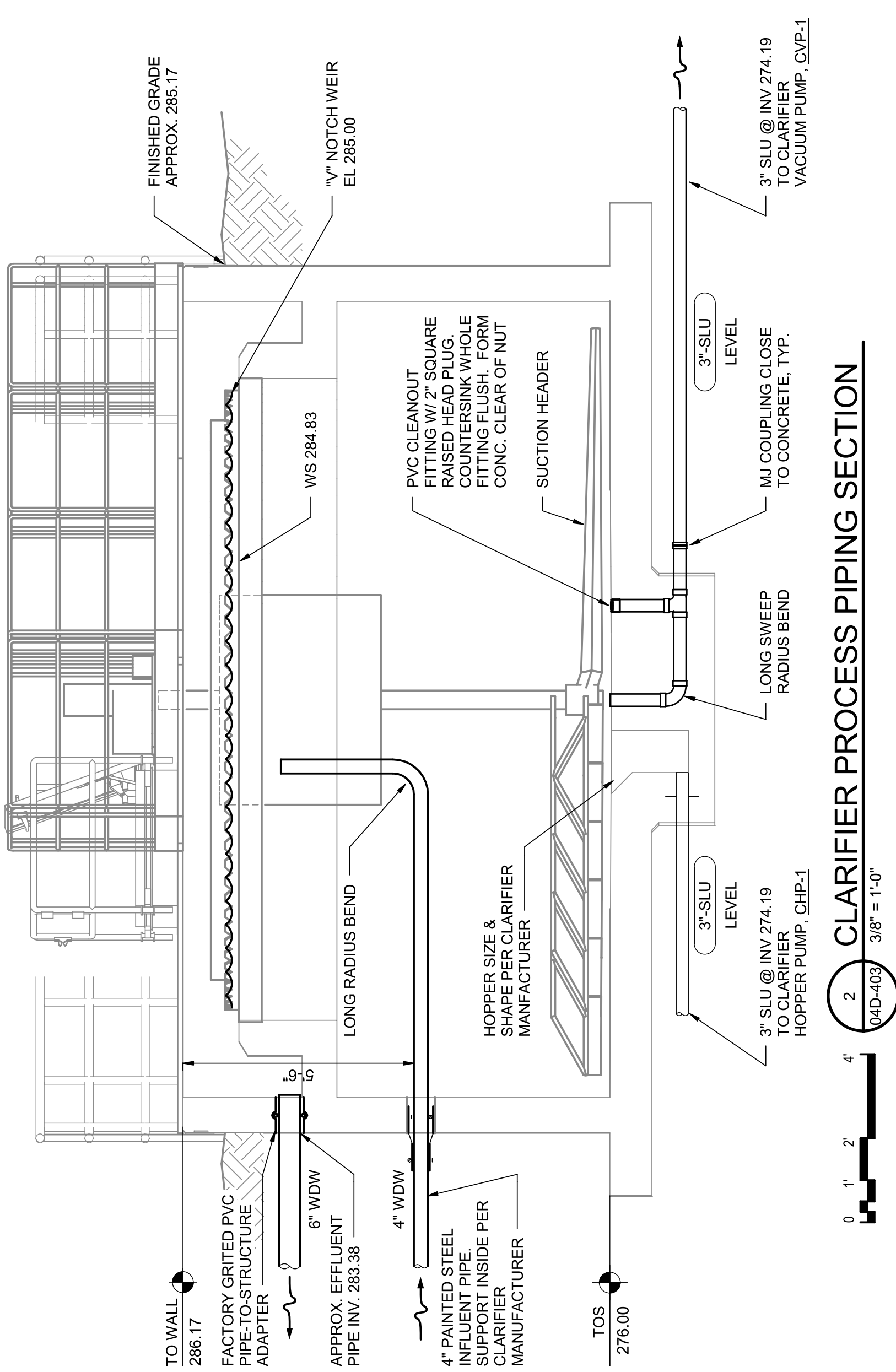
TRUE NORTH



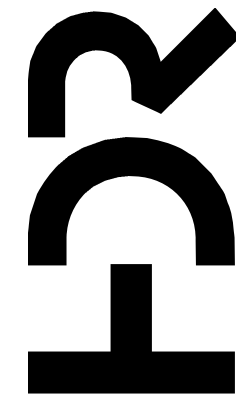
RUN 6" WDW TO 12" WDW. SEE SHEET 04D-101 CONTINUATION

1 CLARIFIER PROCESS PIPING PLAN
3/8" = 1'-0"

NOTE: ORIENT PIPES PER PLAN VIEW ON THIS SHEET



2 CLARIFIER PROCESS PIPING SECTION
3/8" = 1'-0"



PROJECT MANAGER ANDREW GURSKI

CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER

PROJECT NUMBER 10357686



Digitally signed by Jeffrey K. Chandler, Jr.
Date: 2023.07.14 17:28:55-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

CLARIFIER PROCESS PIPING PLAN & SECTION

ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

FILENAME 10353741-04-D.rvt
SCALE 3/8" = 1'-0"

SHEET 04D-403

1

2

3

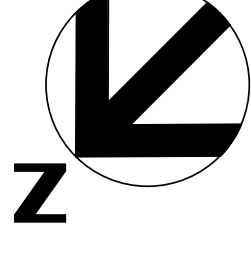
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5

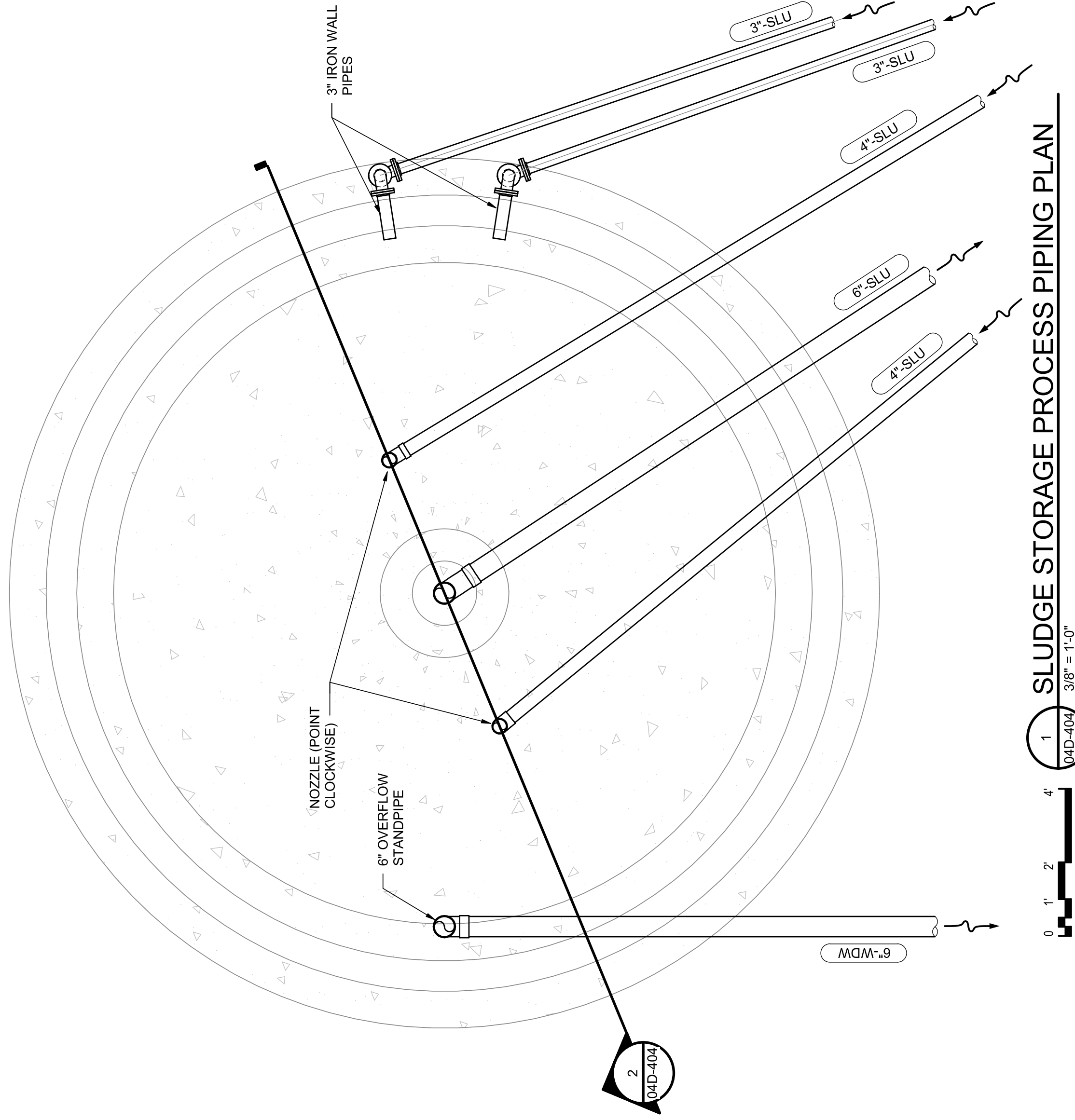
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7

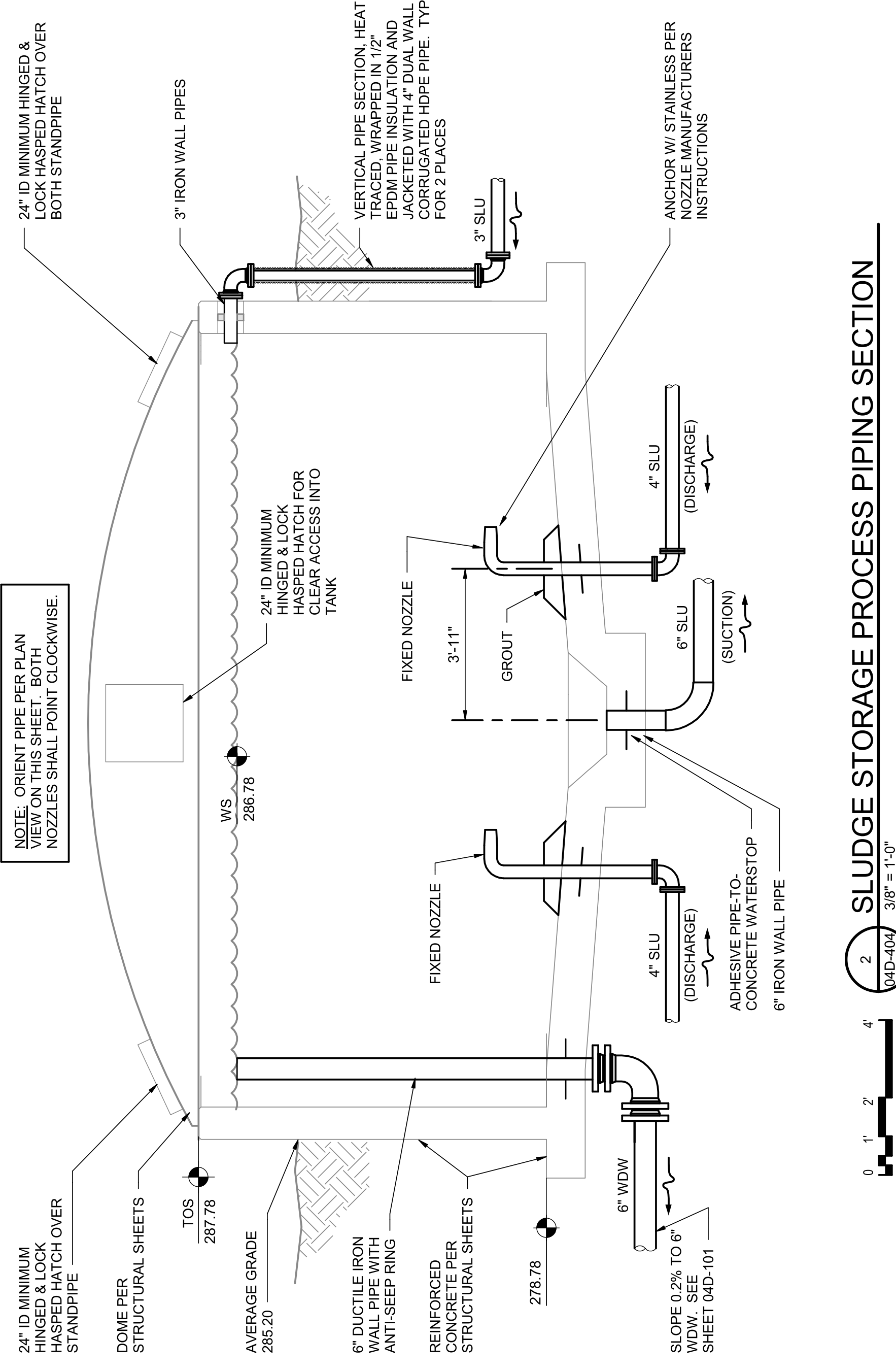
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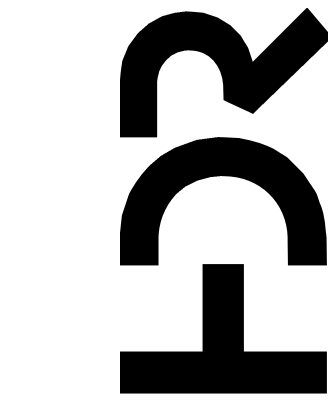
TRUE NORTH



1 SLUDGE STORAGE PROCESS PIPING PLAN
3/8" = 1'-0"



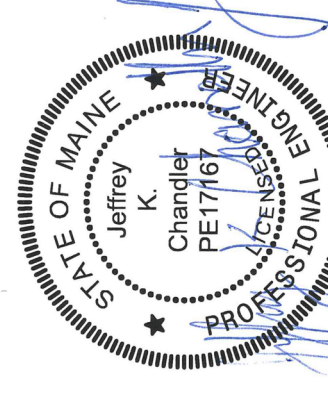
2 SLUDGE STORAGE PROCESS PIPING SECTION
3/8" = 1'-0"



PROJECT MANAGER ANDREW GURSKI

CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER

PROJECT NUMBER 10357686



Digitally signed by Jeffrey K. Chandler, Jr.
Date: 2023.07.14 17:29:06-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

SLUDGE STORAGE PROCESS PIPING PLAN & DETAILS

SHEET 04D-404

FILENAME 10353741-04-D.rvt
SCALE 3/8" = 1'-0"



1

2

3

4

5

6

7

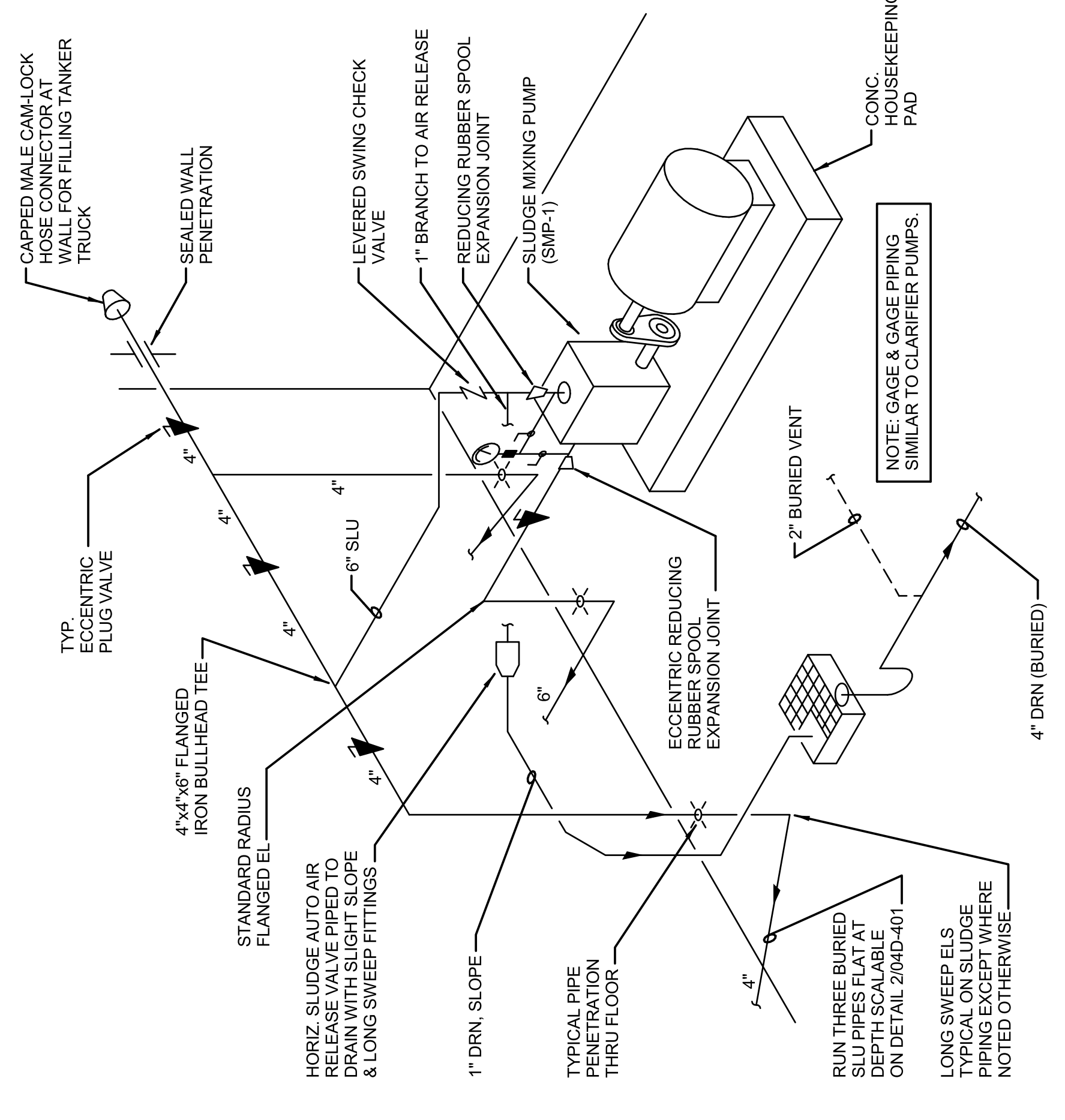
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D

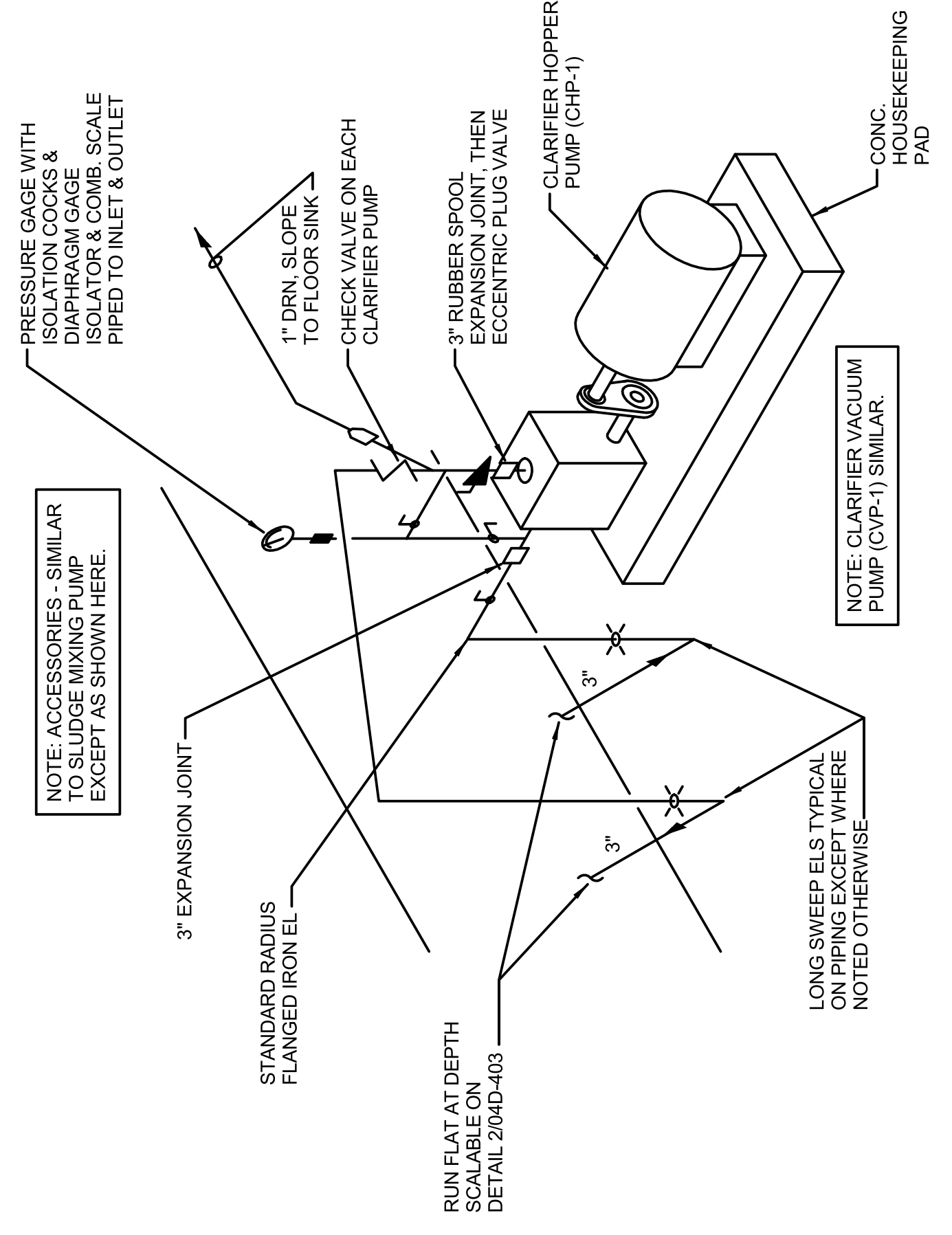
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B

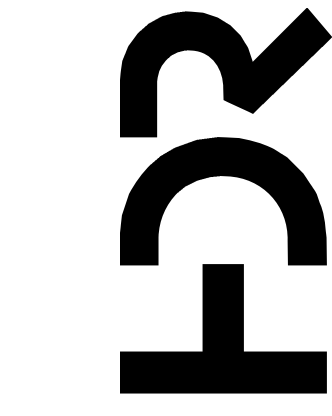
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2
04D-501
SLUDGE MIXING PUMP (SMP-1)
NOT TO SCALE



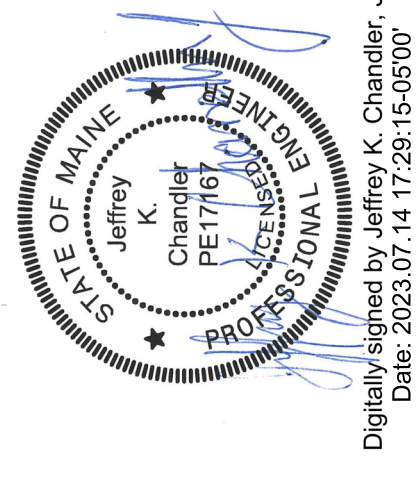
1
04D-501
CLARIFIER HOPPER PUMP (CHP-1)
NOT TO SCALE



IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

DRUMFILTER BLDG DETAILS

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER



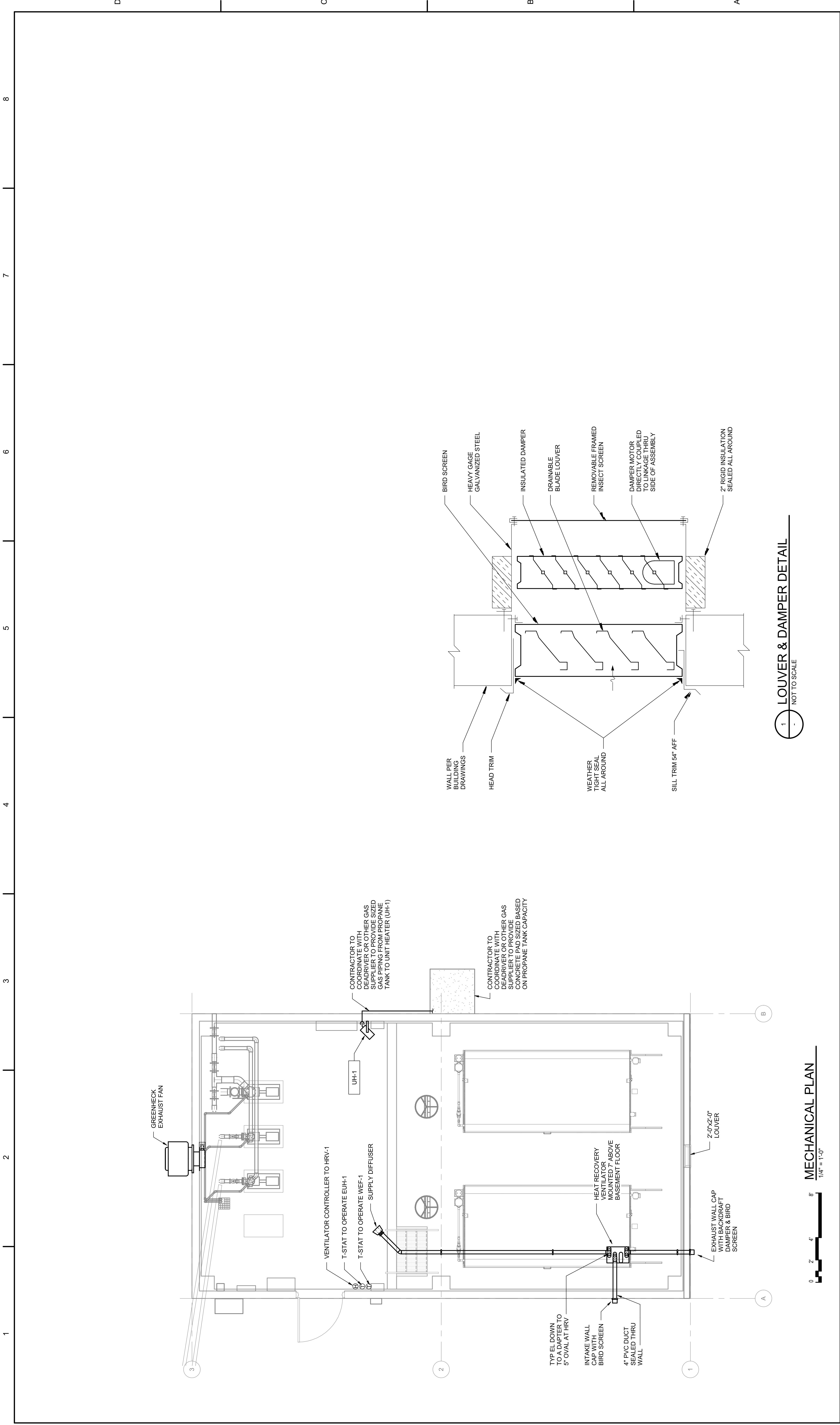
ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

PROJECT NUMBER 10357686

Digitally signed by Jeffrey K. Chandler, Jr.
Date: 2023.07.14 17:28:15-05'00'

FILENAME 10353741-04-D.rvt
SCALE 3/8" = 1'-0"

SHEET 04D-501

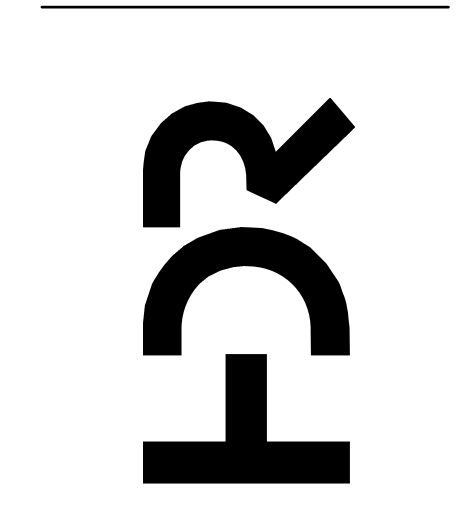


PROJECT MANAGER ANDREW GURSKI

CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	C. SMEE
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER

PROJECT NUMBER 10457686

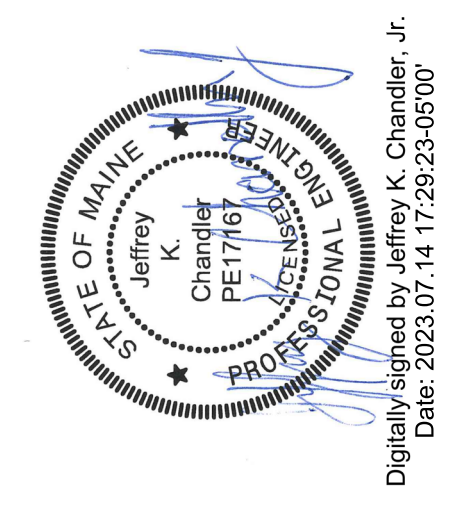
ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	

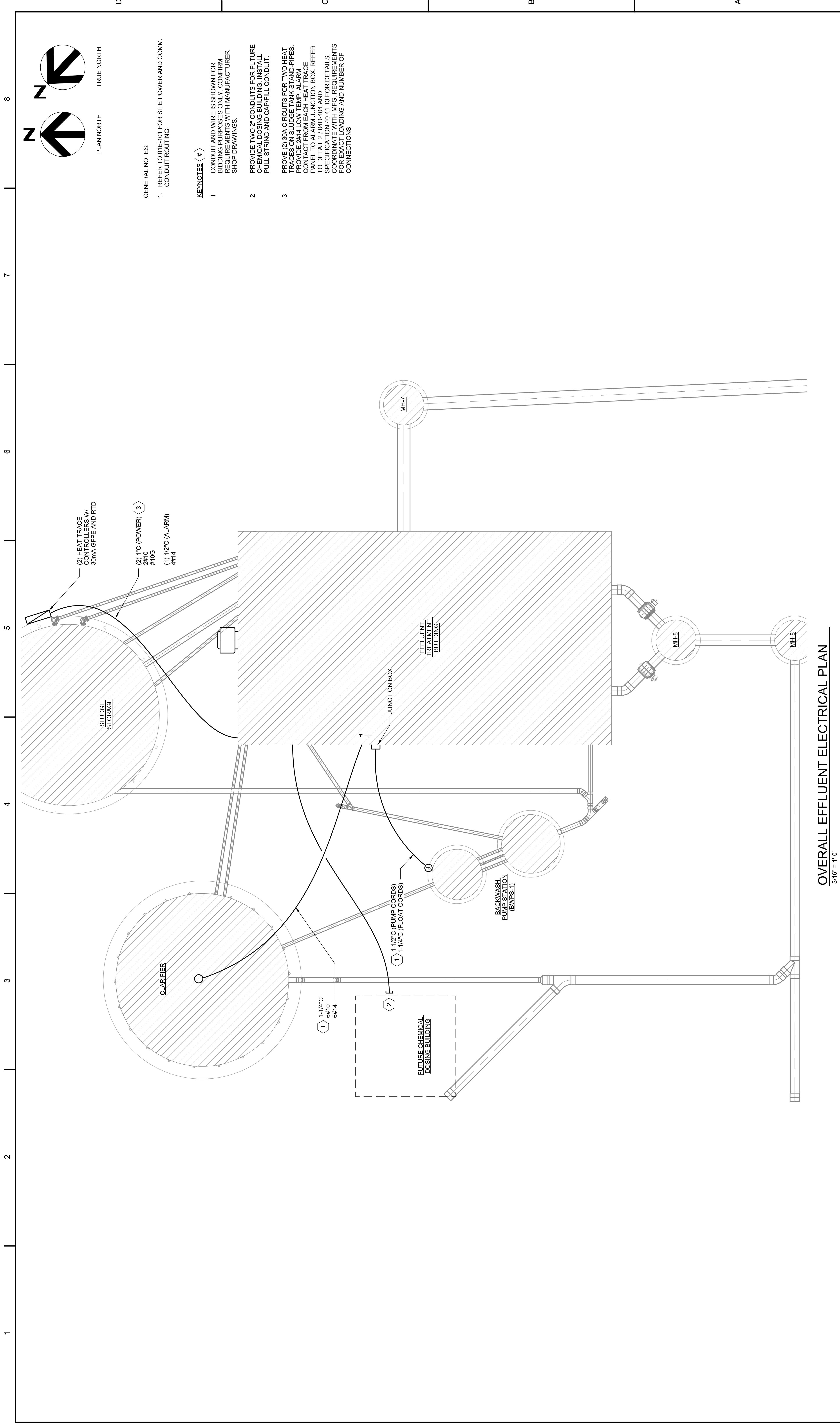


IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

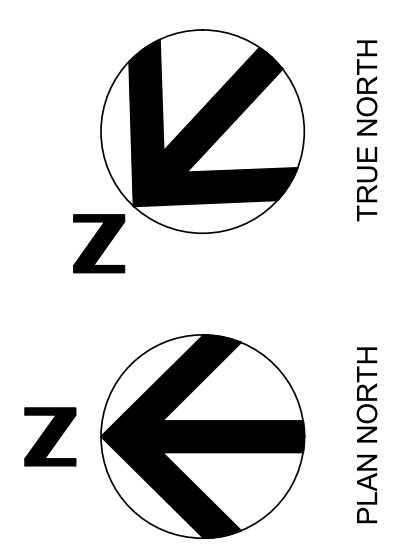
EFFLUENT TREATMENT BUILDING MECHANICAL PLAN

1035676-04-E.rvt
 FILENAME
 2"
 SCALE
 As indicated





- GENERAL NOTES:**
- REFER TO 01E-101 FOR SITE POWER AND COMM. CONDUIT ROUTING.
- KEYNOTES #**
- CONDUIT AND WIRE IS SHOWN FOR BIDDING PURPOSES ONLY. CONFIRM REQUIREMENTS WITH MANUFACTURER SHOP DRAWINGS.
 - PROVIDE TWO, 2" CONDUITS FOR FUTURE CHEMICAL DOSING BUILDING. INSTALL PULL STRING AND CAPFILL CONDUIT.
 - PROVIDE (3) 30A CIRCUITS FOR TWO HEAT TRACES ON SLUDGE TANK STAND-PIPES. PROVIDE 2#1/4" LOW TEMP. ALARM. CONTACT FROM EACH HEAT TRACE PANEL TO ALARM JUNCTION BOX. REFER TO DETAIL 2 / 04D-404 AND SPECIFICATION 40 41 13 FOR DETAILS. COORDINATE WITH MFG. REQUIREMENTS FOR EXACT LOADING AND NUMBER OF CONNECTIONS.

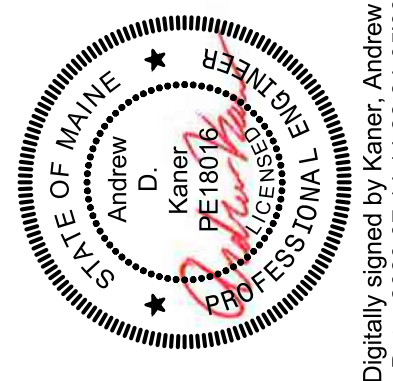


OVERALL EFFLUENT ELECTRICAL PLAN
3/16" = 1'-0"

PROJECT MANAGER ANDREW GURSKI

CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	C. SMEE
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER

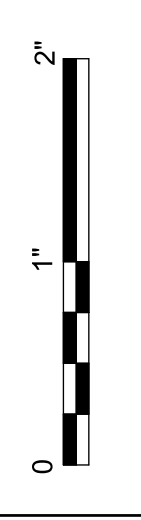
PROJECT NUMBER 10457686



Digitally signed by Kaner, Andrew D
Date: 2023.07.14 14:22:24-05'00'

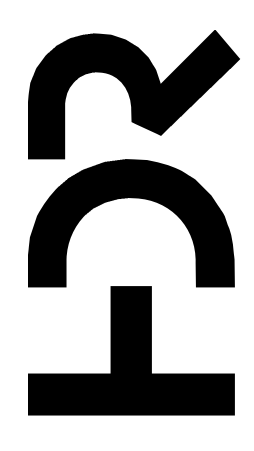
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

OVERALL EFFLUENT ELECTRICAL PLAN

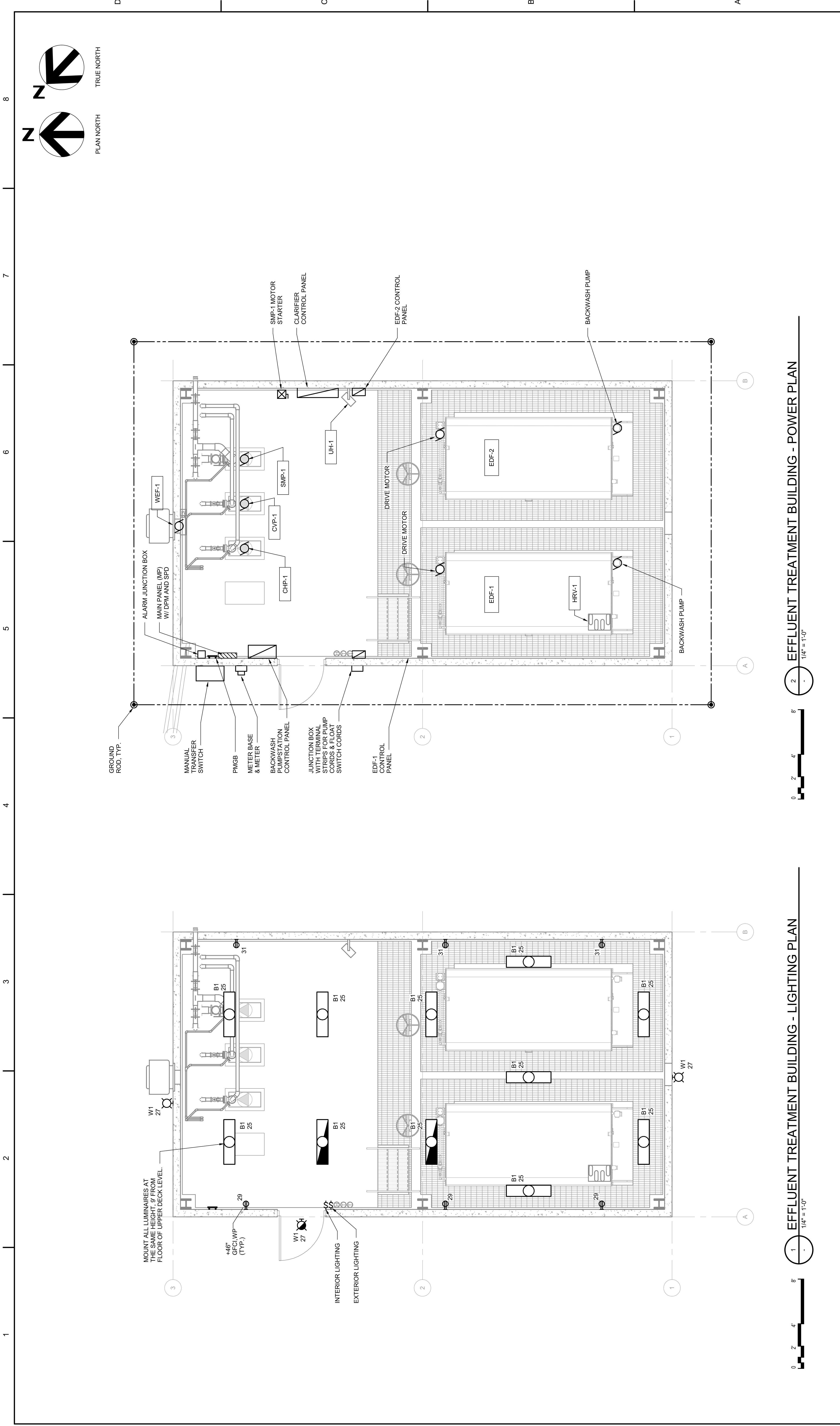


FILENAME 1035676-04-E.rvt
SCALE 3/16" = 1'-0"

SHEET **04E-101**

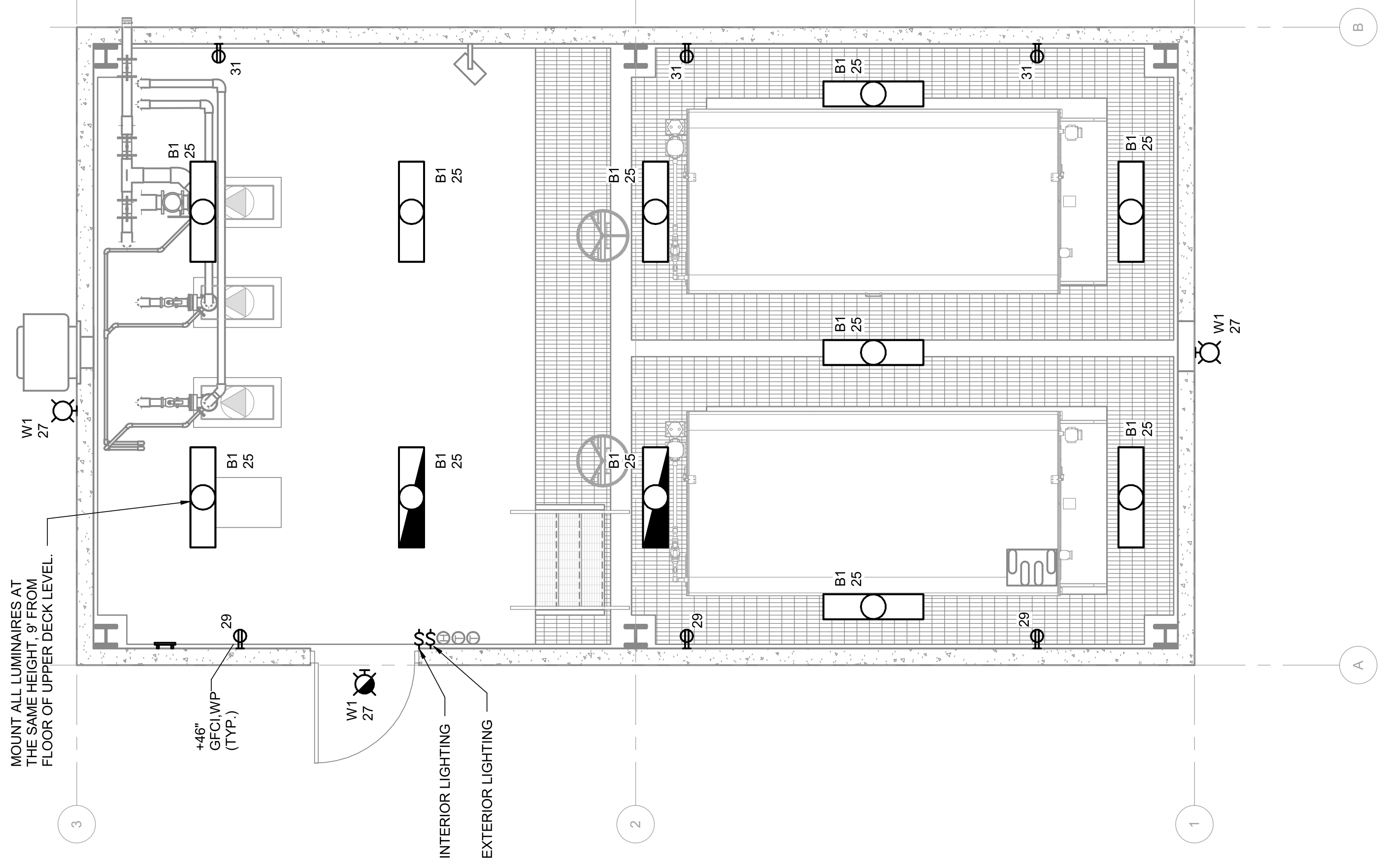
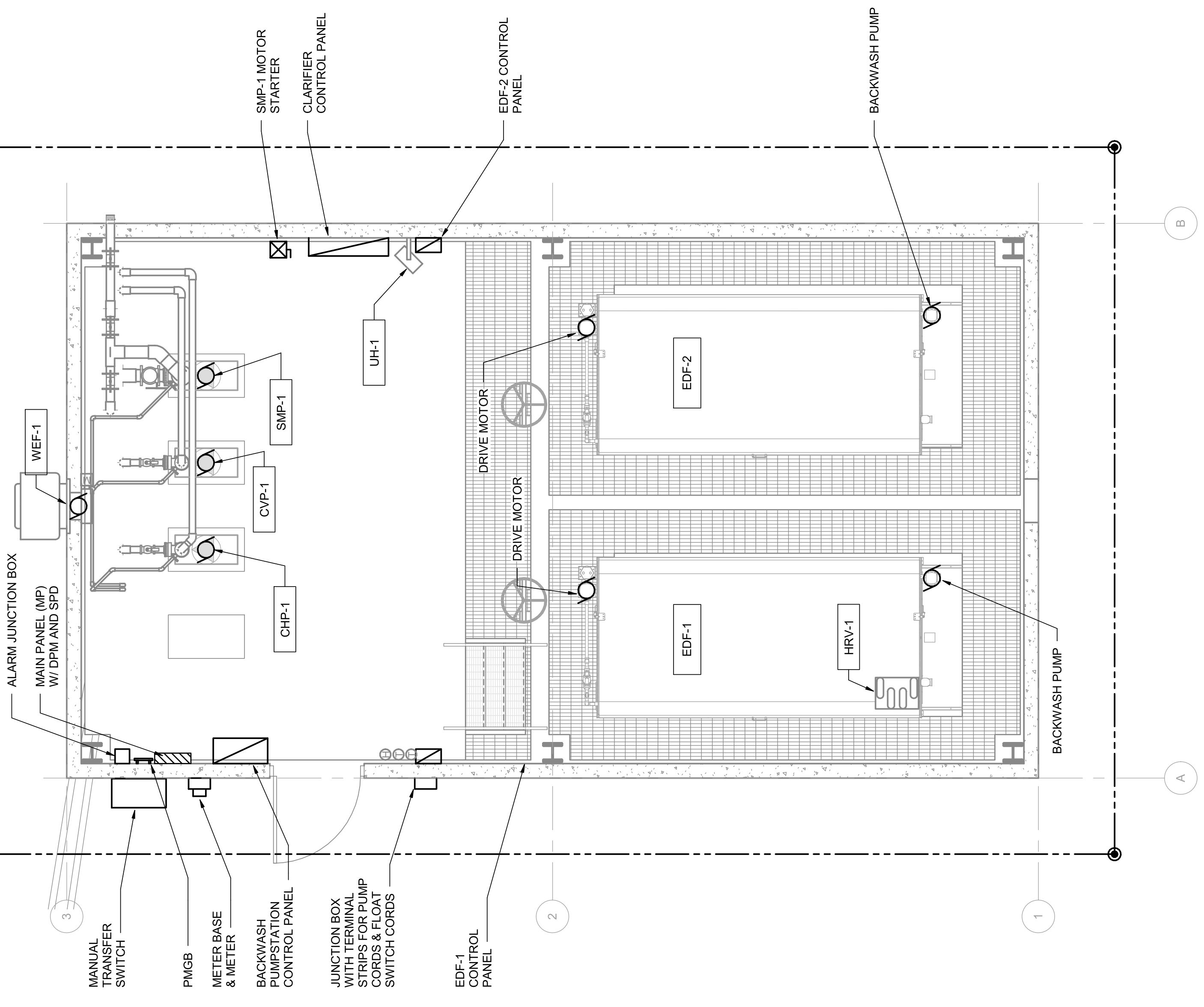
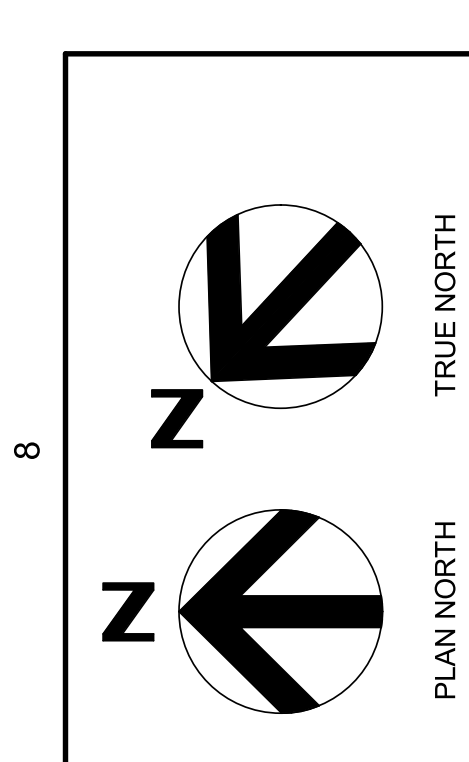


ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID



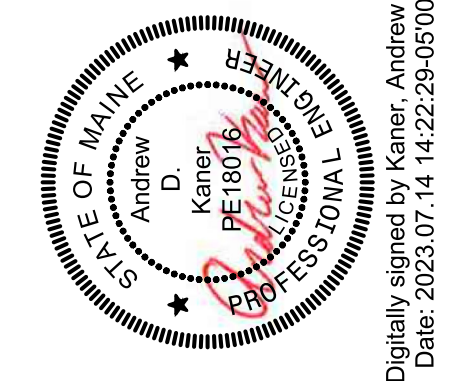
1 EFFLUENT TREATMENT BUILDING - LIGHTING PLAN
1/4" = 1'-0"

2 EFFLUENT TREATMENT BUILDING - POWER PLAN
1/4" = 1'-0"



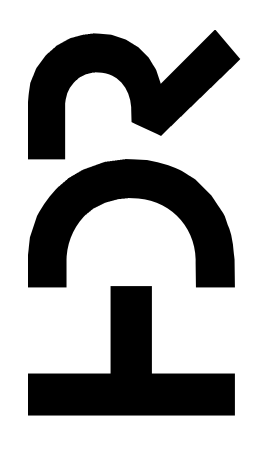
**EFFLUENT TREATMENT BUILDING
ELECTRICAL PLANS**

**IMPROVEMENTS AT GRAND
LAKE STREAM STATE FISH
HATCHERY**

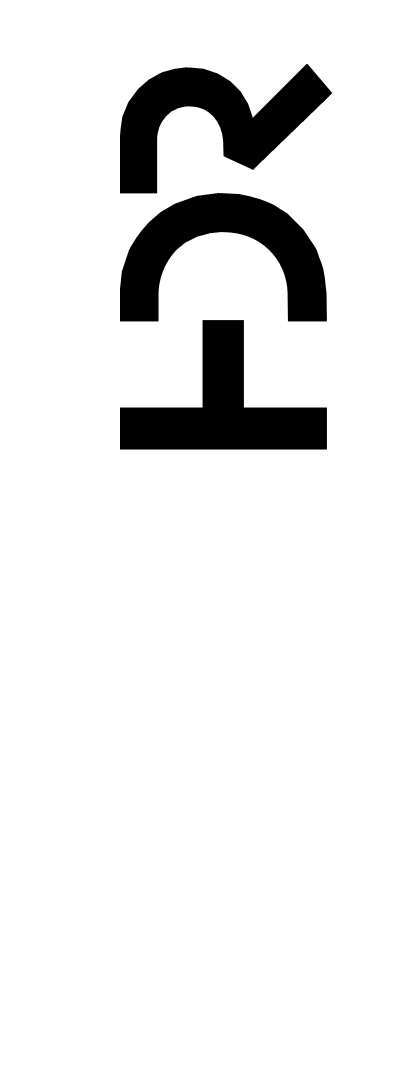
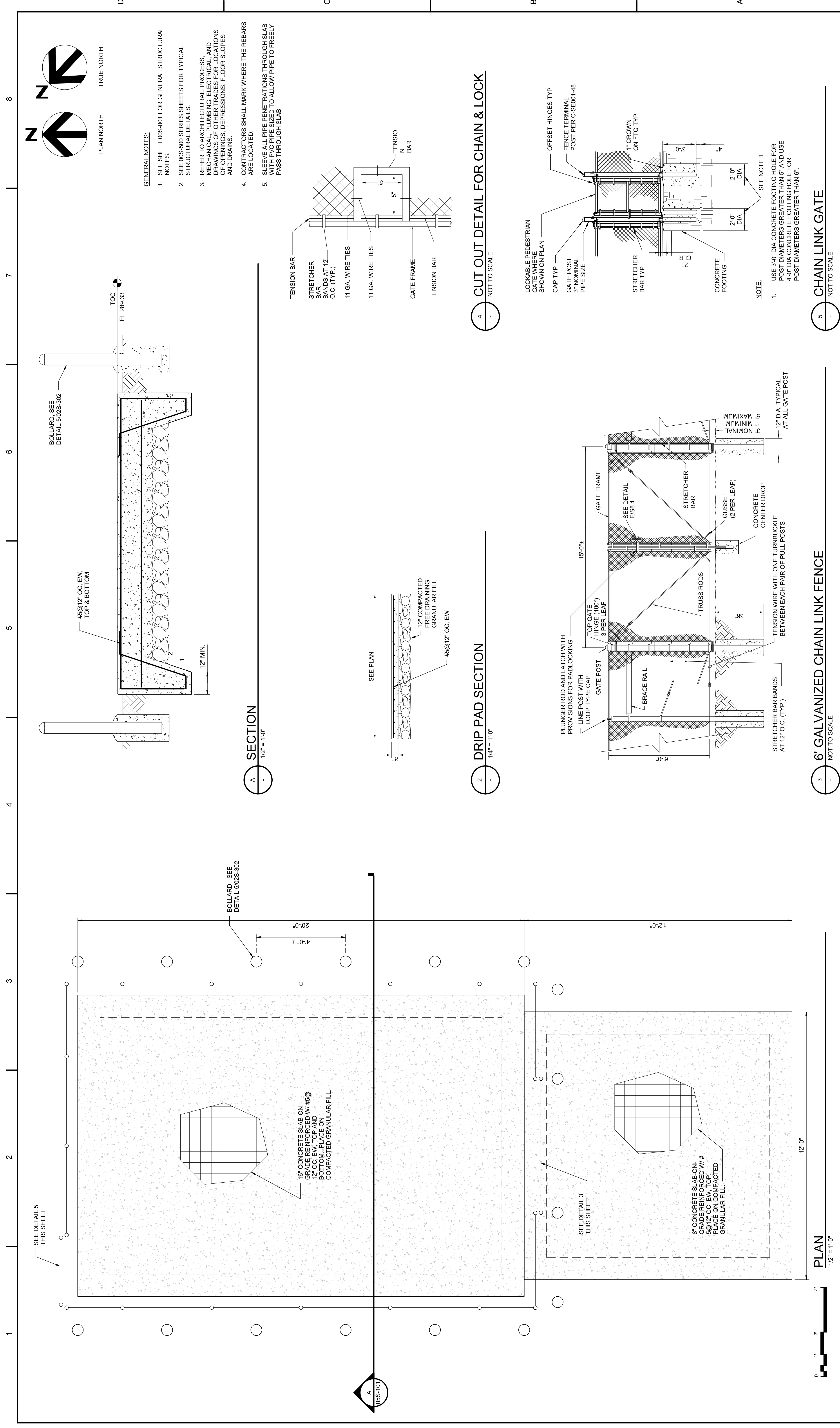


PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	C. SMEE
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10457686

ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	

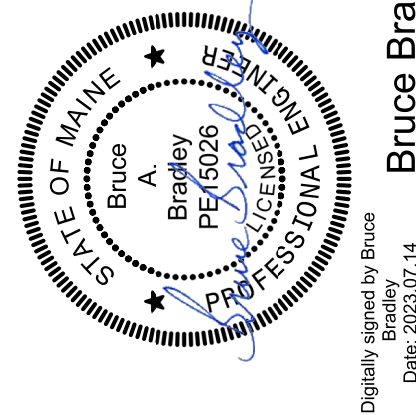


FILENAME | 10357686-04-E.rvt
SCALE | 1/4" = 1'-0"
SHEET | 04E-401



ISSUE	DATE	DESCRIPTION
07/14/2023		ISSUED FOR BID

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



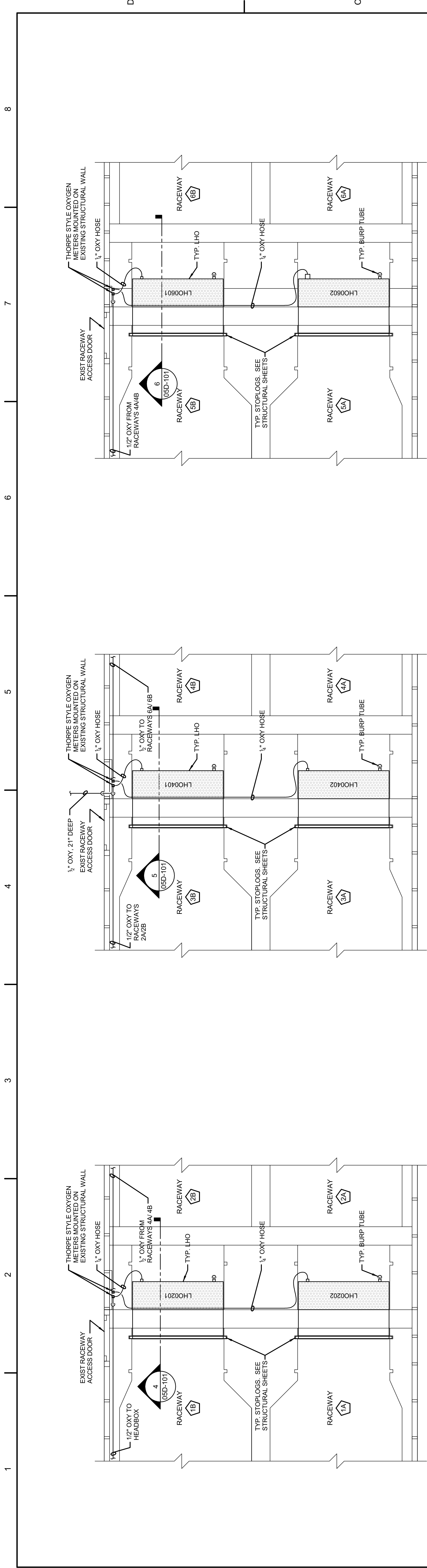
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

OXYGEN PAD STRUCTURAL PLAN AND SECTION

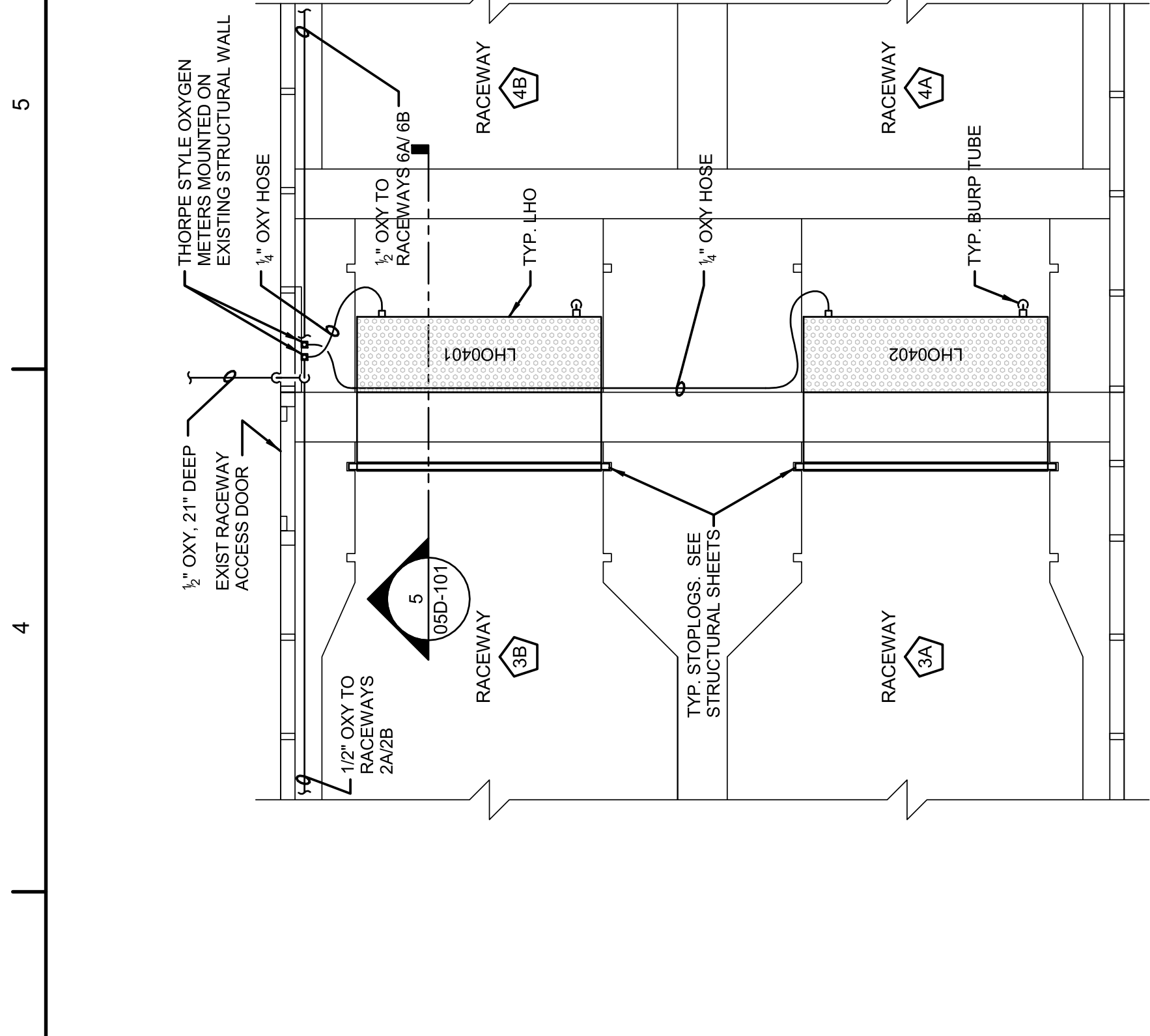
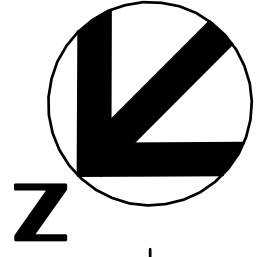


SHEET
05S-101

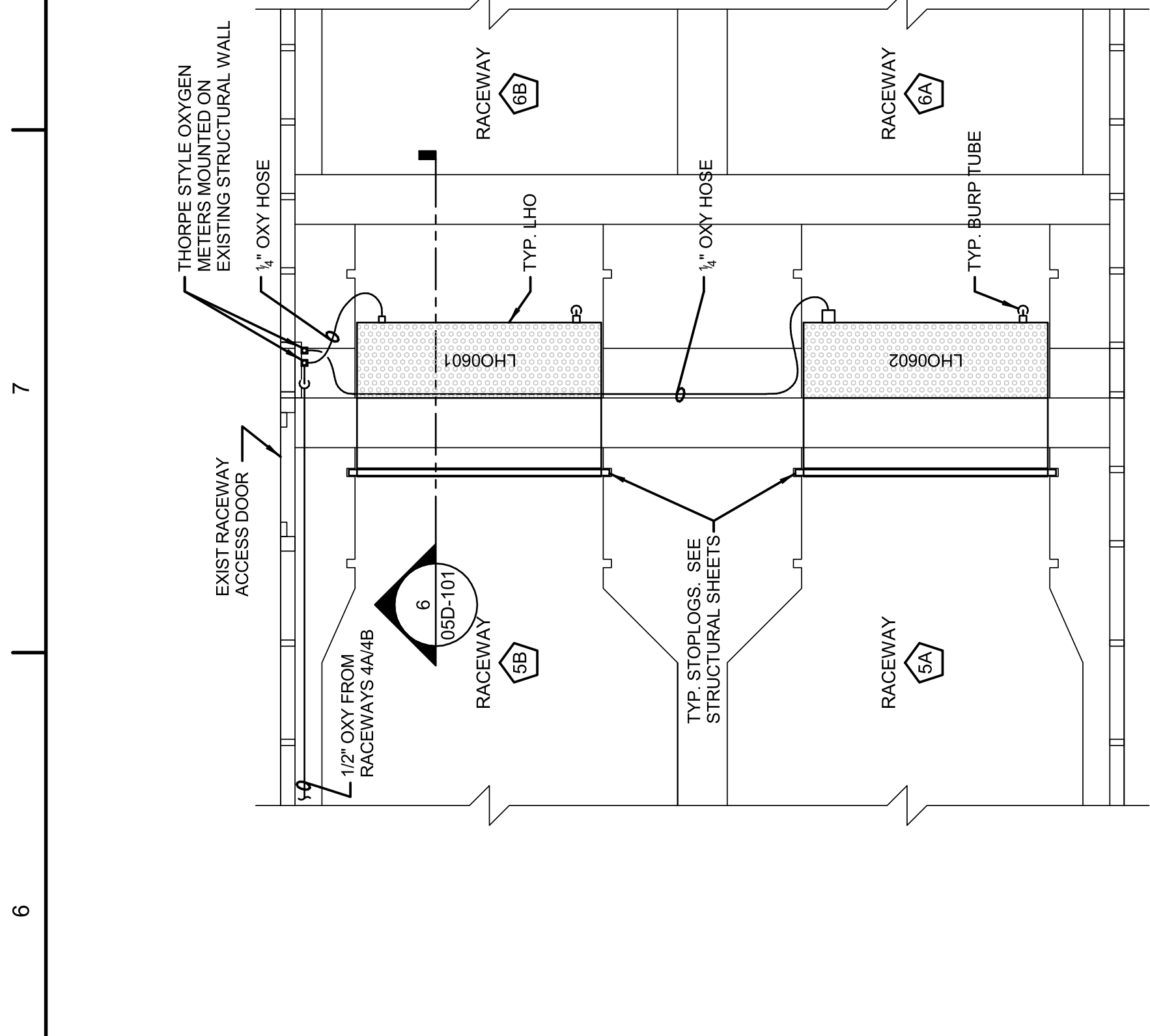
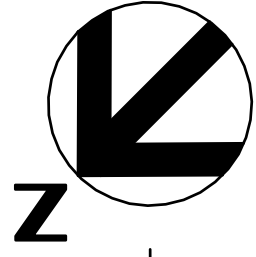
FILENAME 10357686-05-U
SCALE As Indicated



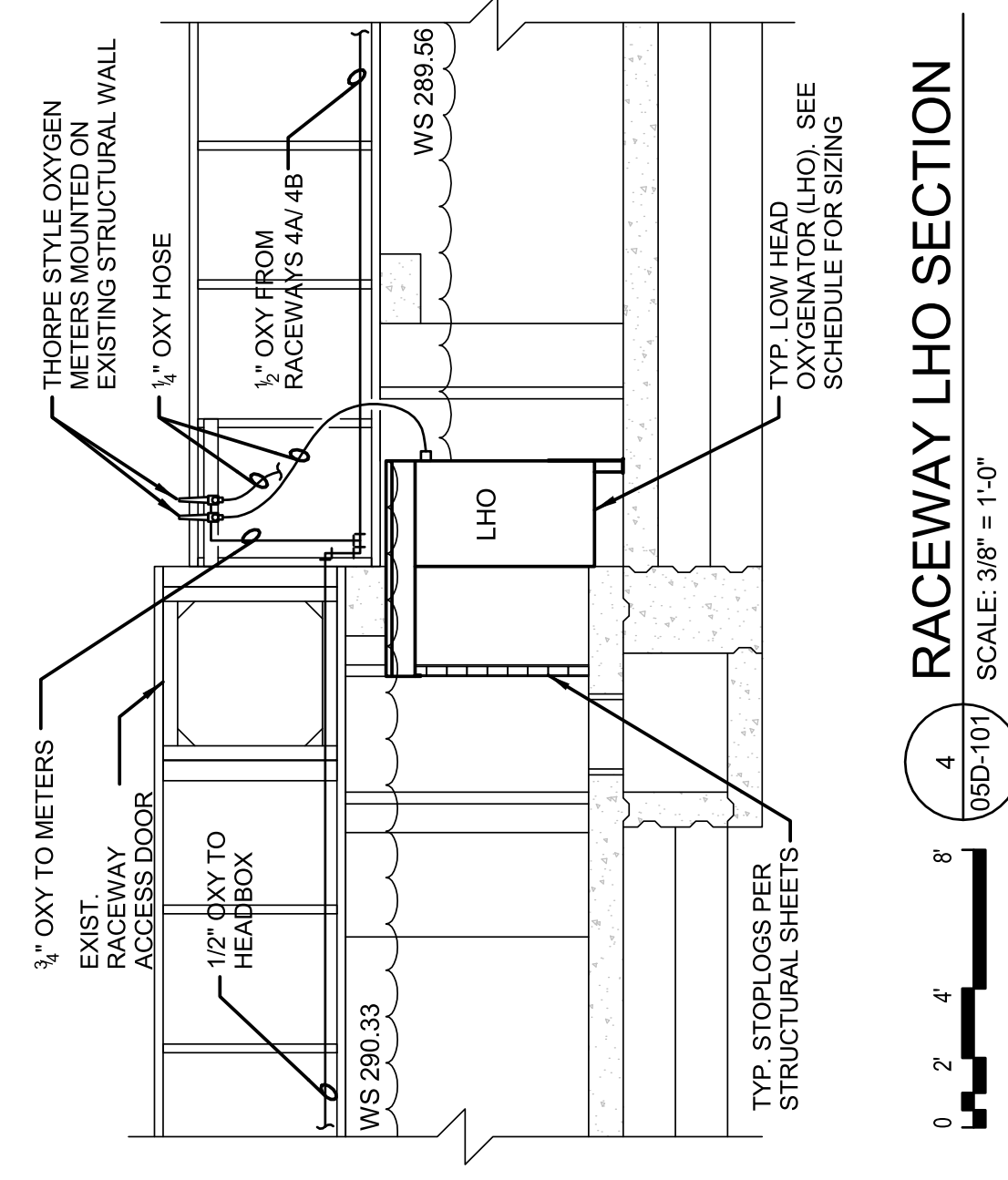
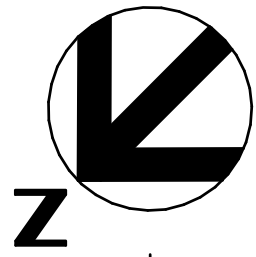
1 RACEWAYS 1A, 1B, 2A & 2B LHO PLAN
SCALE: 3/8" = 1'-0"



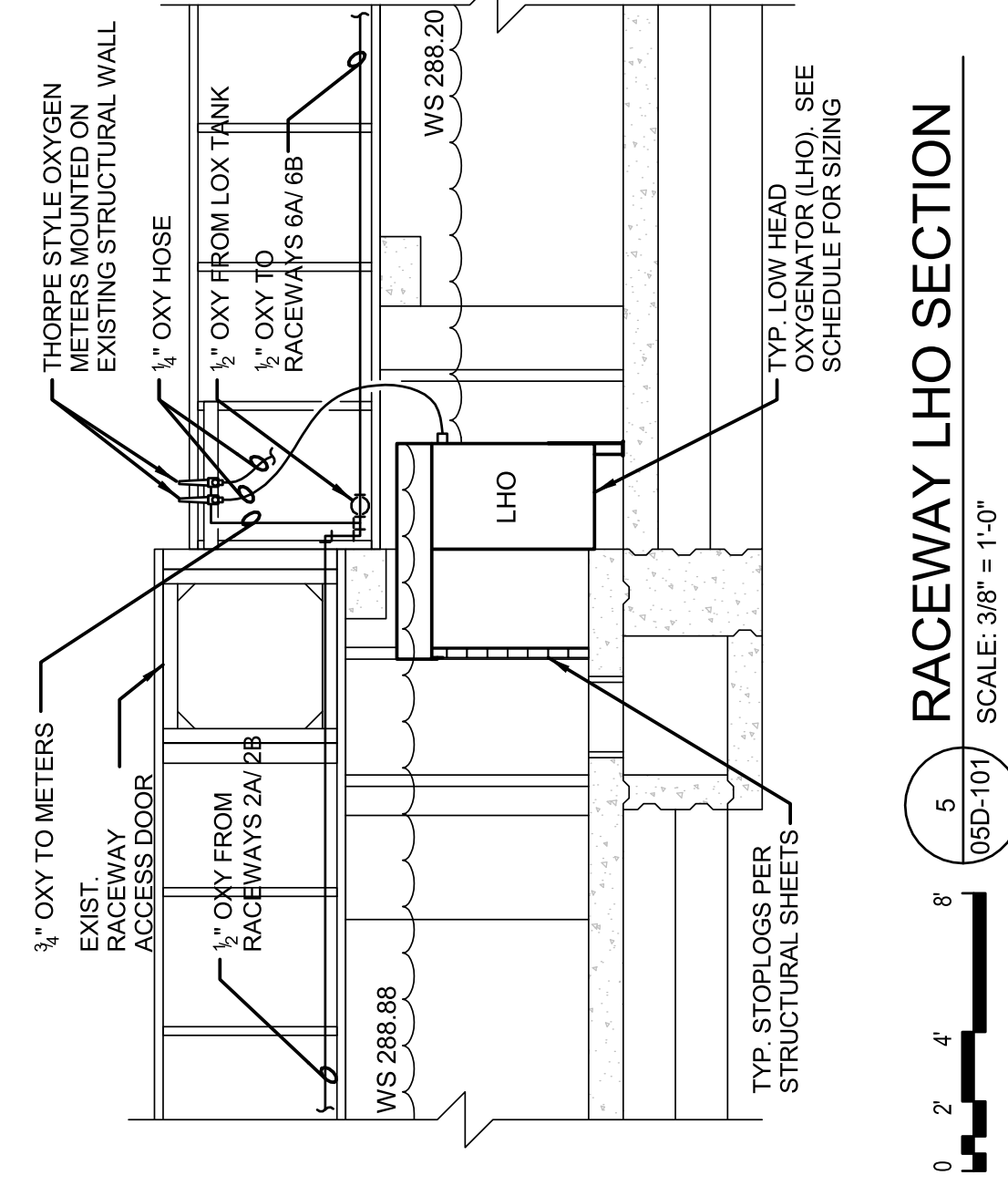
2 RACEWAYS 3A, 3B, 4A & 4B LHO PLAN
SCALE: 3/8" = 1'-0"



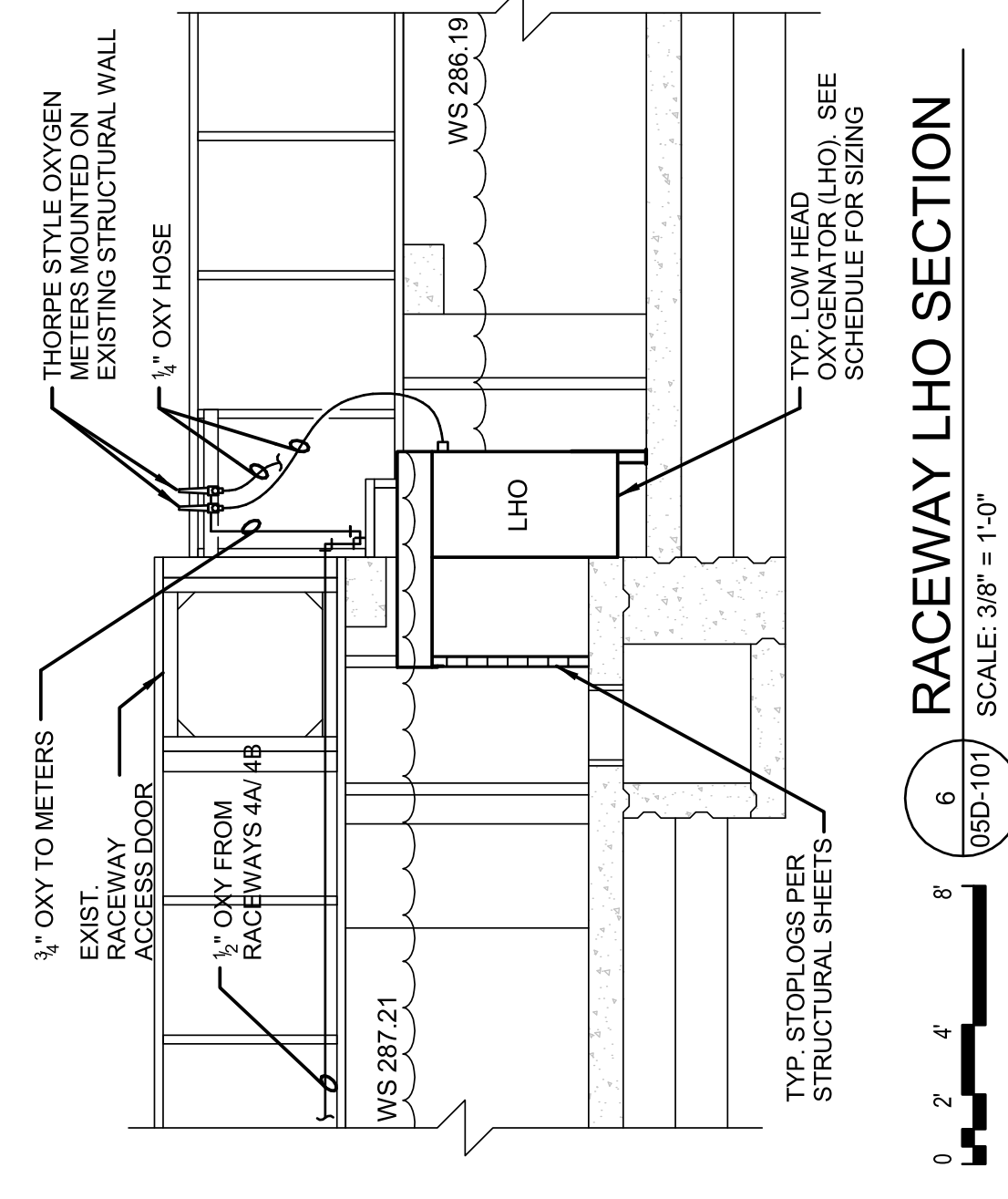
3 RACEWAYS 5A, 5B, 6A & 6B LHO PLAN
SCALE: 3/8" = 1'-0"



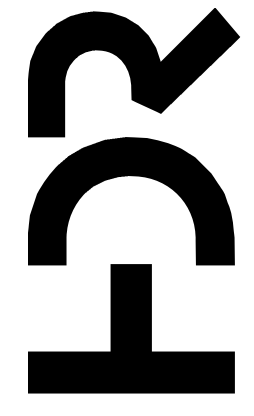
4 RACEWAY LHO SECTION
SCALE: 3/8" = 1'-0"



5 RACEWAY LHO SECTION
SCALE: 3/8" = 1'-0"

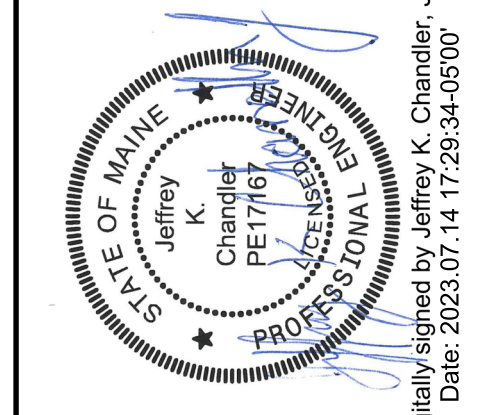


6 RACEWAY LHO SECTION
SCALE: 3/8" = 1'-0"



PROJECT MANAGER ANDREW GURSKI

CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER



IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

EXISTING RACEWAYS LHO PIPING PLAN AND SECTIONS

ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	

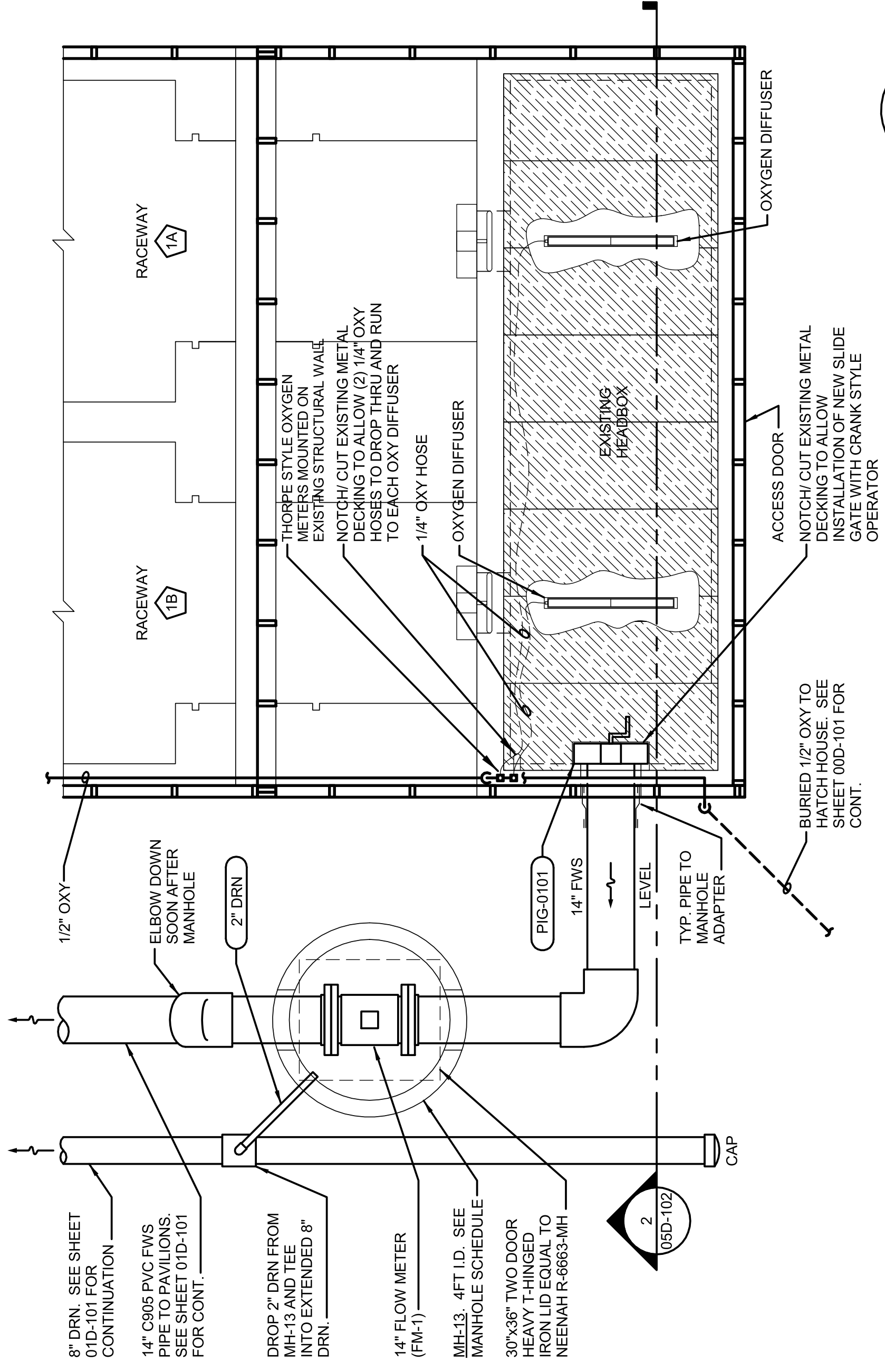
PROJECT NUMBER | 10357686

Digitally signed by Jeffrey K. Chandler, Jr.
Date: 2023.07.14 17:29:34-05'00'

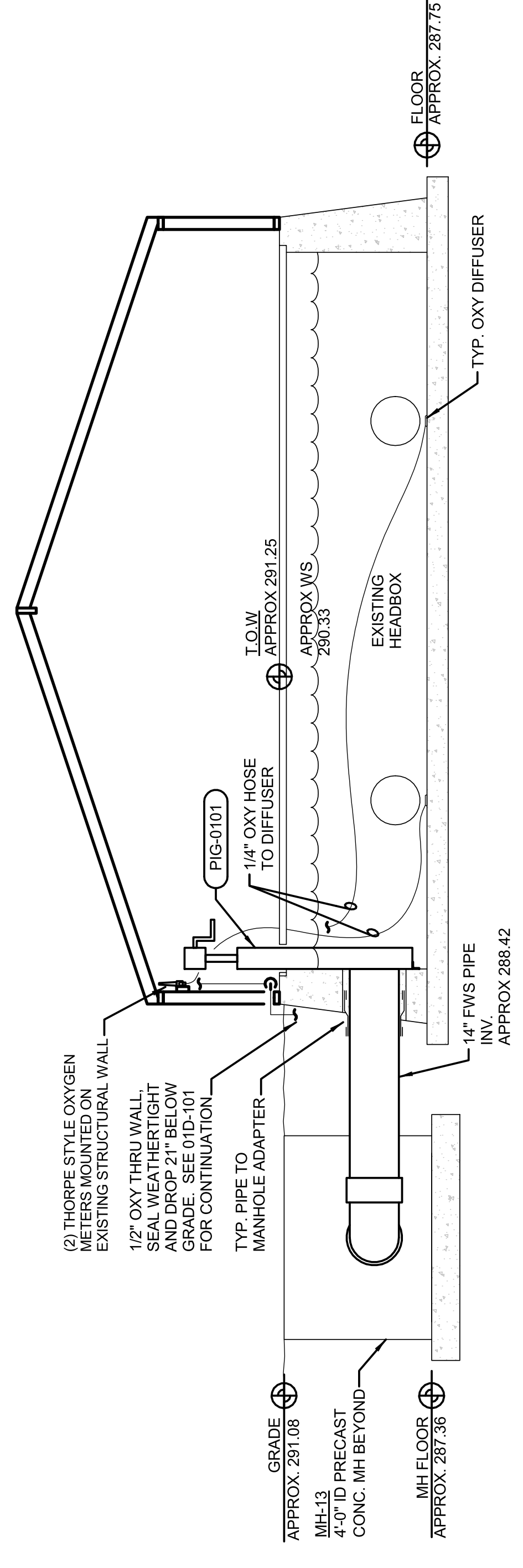
FILENAME | 10357686-00-G.rvt
SCALE | 3/8" = 1'-0"

SHEET | 05D-101

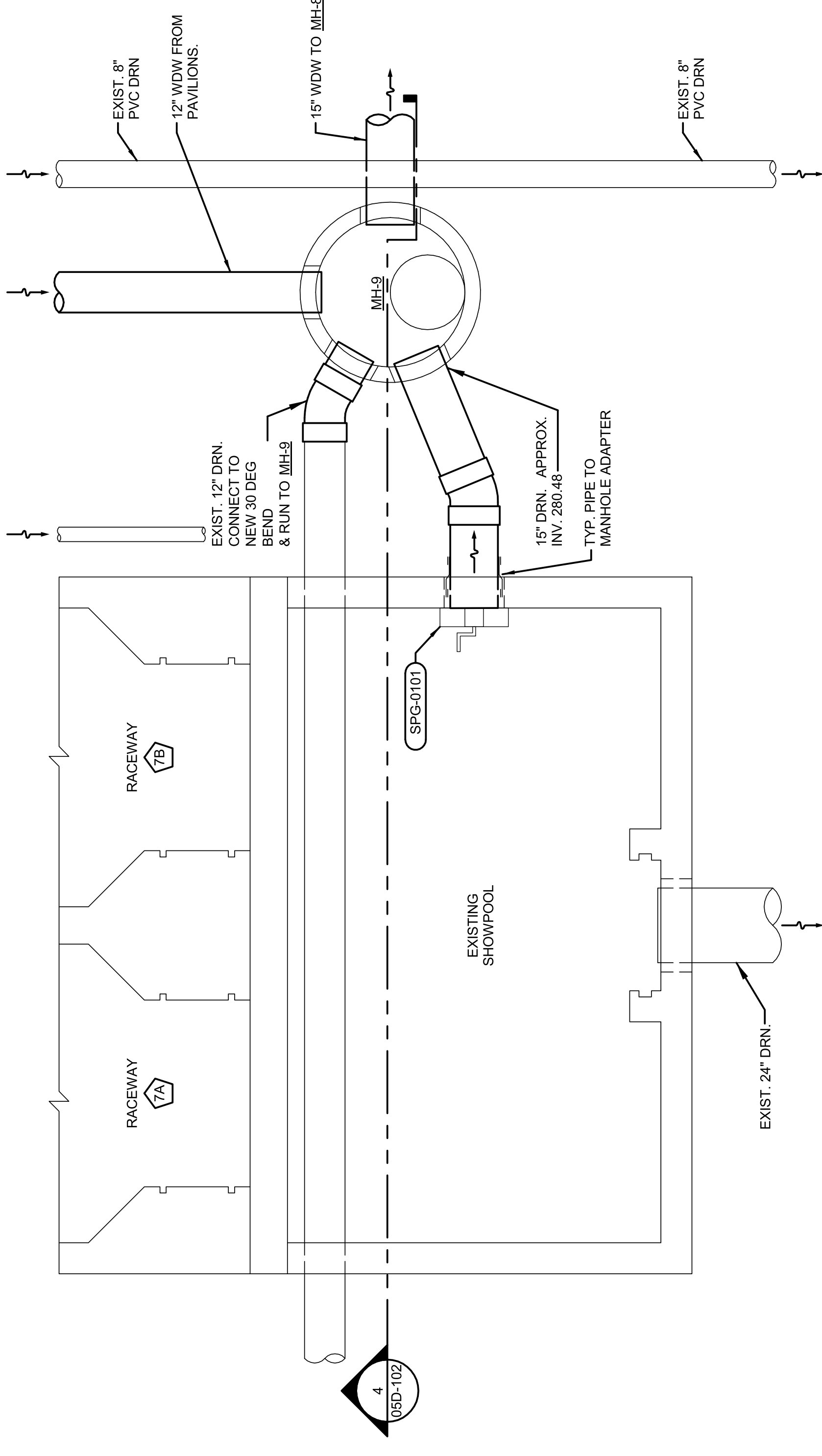
1 2 3 4 5 6 7 8



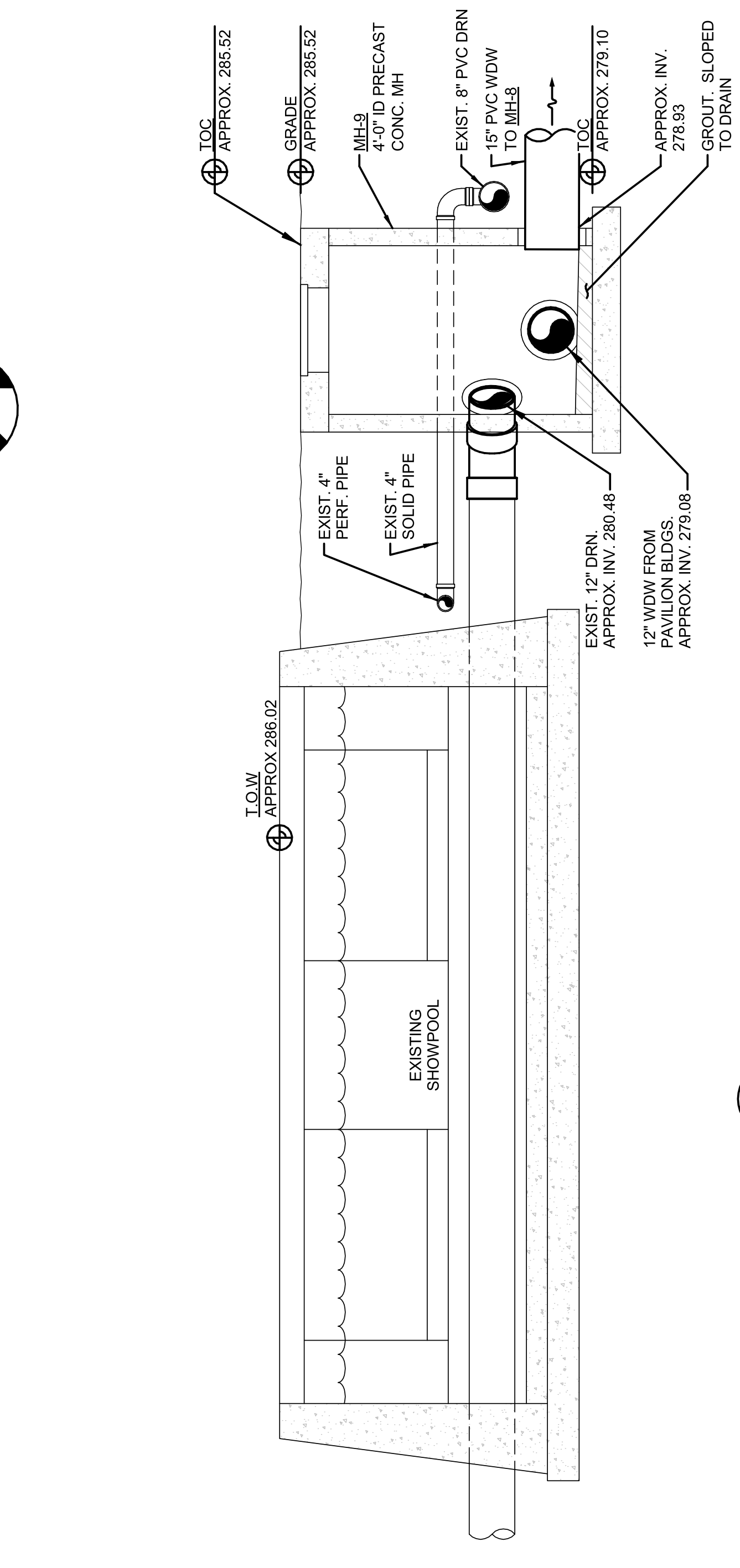
0 2 4 8
 05D-102 SCALE: 3/8" = 1'-0"
EXISTING HEADBOX PROCESS PIPING PLAN
 SCALE: 3/8" = 1'-0"



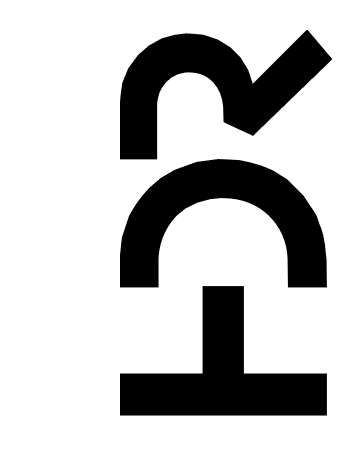
0 2 4 8
 05D-102 SCALE: 3/8" = 1'-0"
EXISTING HEADBOX PROCESS PIPING SECTION
 SCALE: 3/8" = 1'-0"



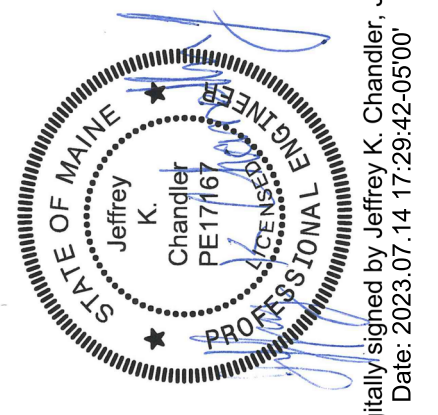
0 2 4 8
 05D-102 SCALE: 3/8" = 1'-0"
EXISTING SHOWPOOL PIPING PLAN
 SCALE: 3/8" = 1'-0"



0 2 4 8
 05D-102 SCALE: 3/8" = 1'-0"
EXISTING SHOWPOOL PIPING SECTION
 SCALE: 3/8" = 1'-0"



PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



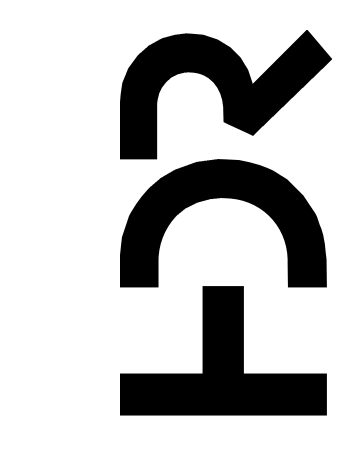
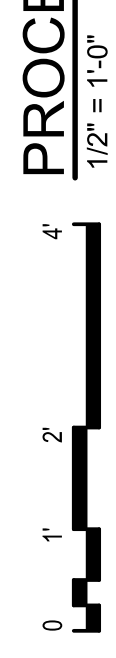
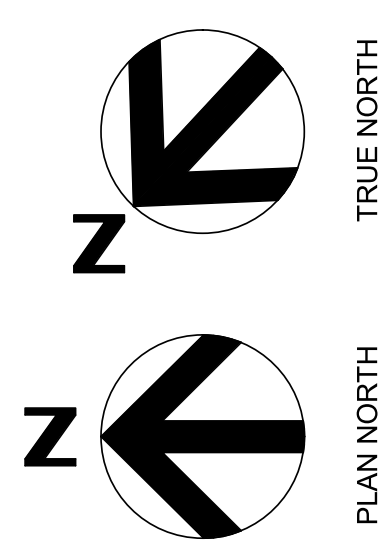
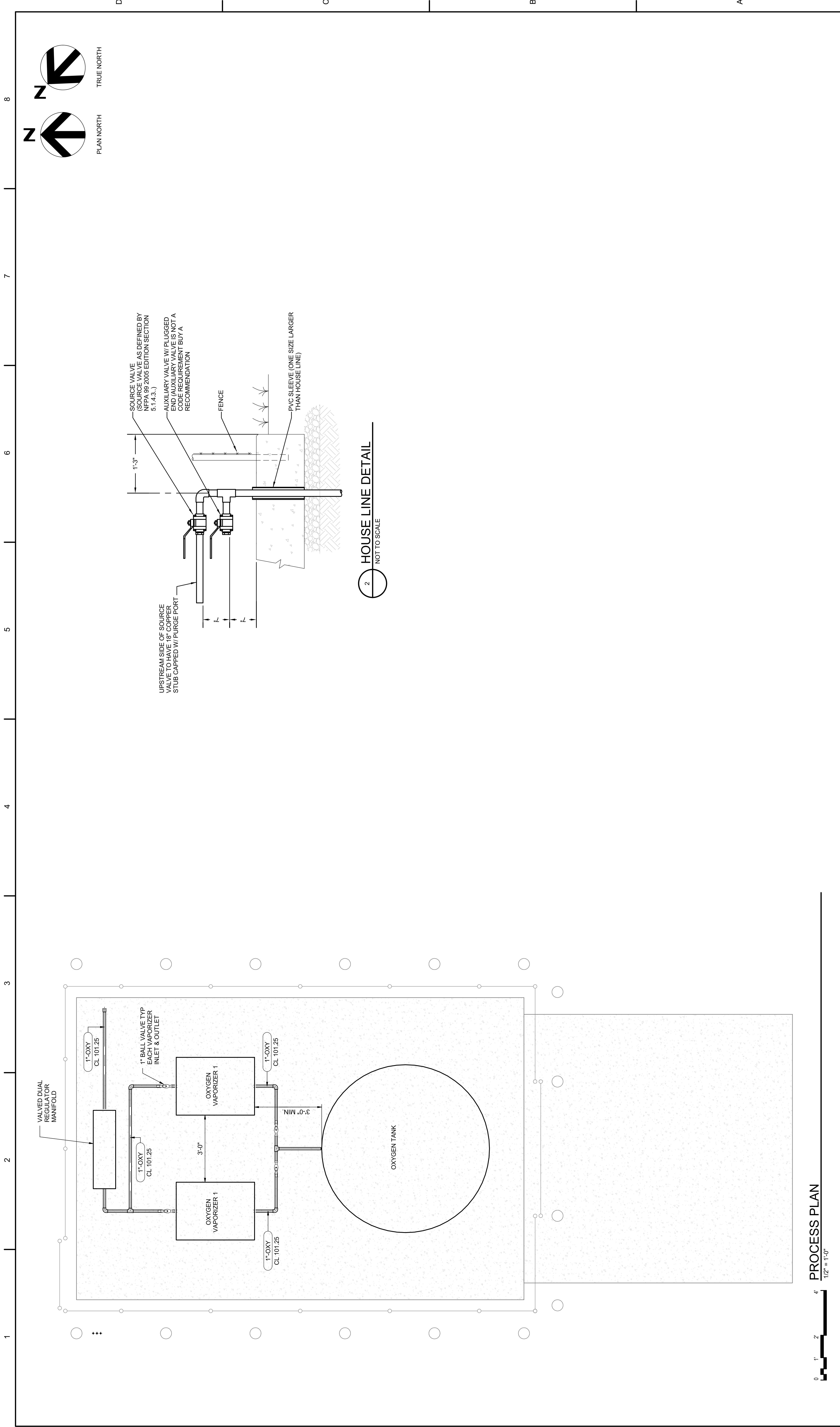
Digitally signed by Jeffrey K. Chandler, Jr.
 Date: 2023.07.14 17:29:42-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

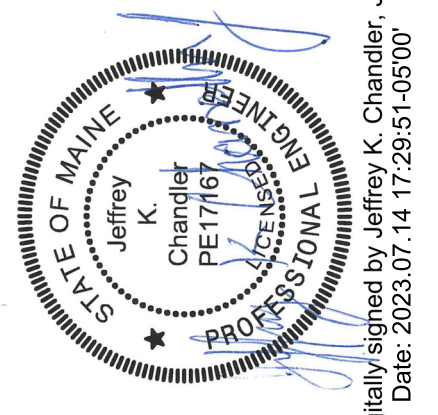
EXISTING RACEWAY DETAILS

FILENAME 10357686-00-G.rvt
 SCALE 3/8" = 1'-0"

SHEET 05D-102



PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
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ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



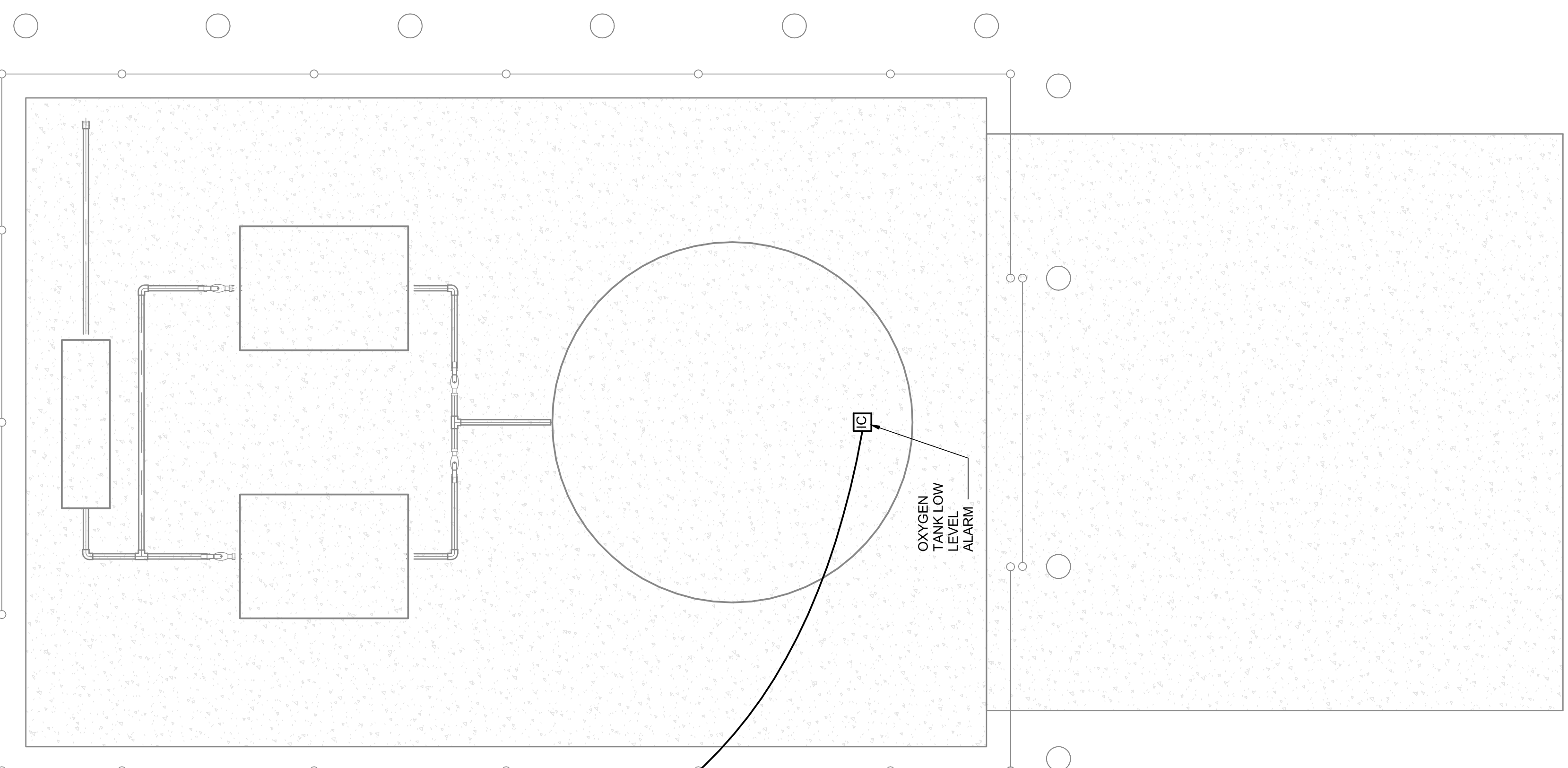
Digitally signed by Jeffrey K. Chandler, Jr.
Date: 2023.07.14 17:29:51-05'00'

IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

OXYGEN PAD PROCESS PLAN

FILENAME | 10357686-05-U
SCALE | 2"
As indicated

[TWO CIRCUITS]:
3/4" C
2#12
#12G



POLE-MOUNT LIGHT
F1 - SEE LUMINAIRE
SCHEDULE FOR
DETAILS.

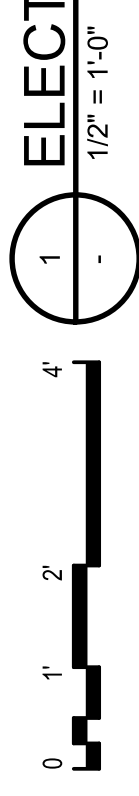
STORAGE
BUILDING
PANEL LP1

2
05E-101

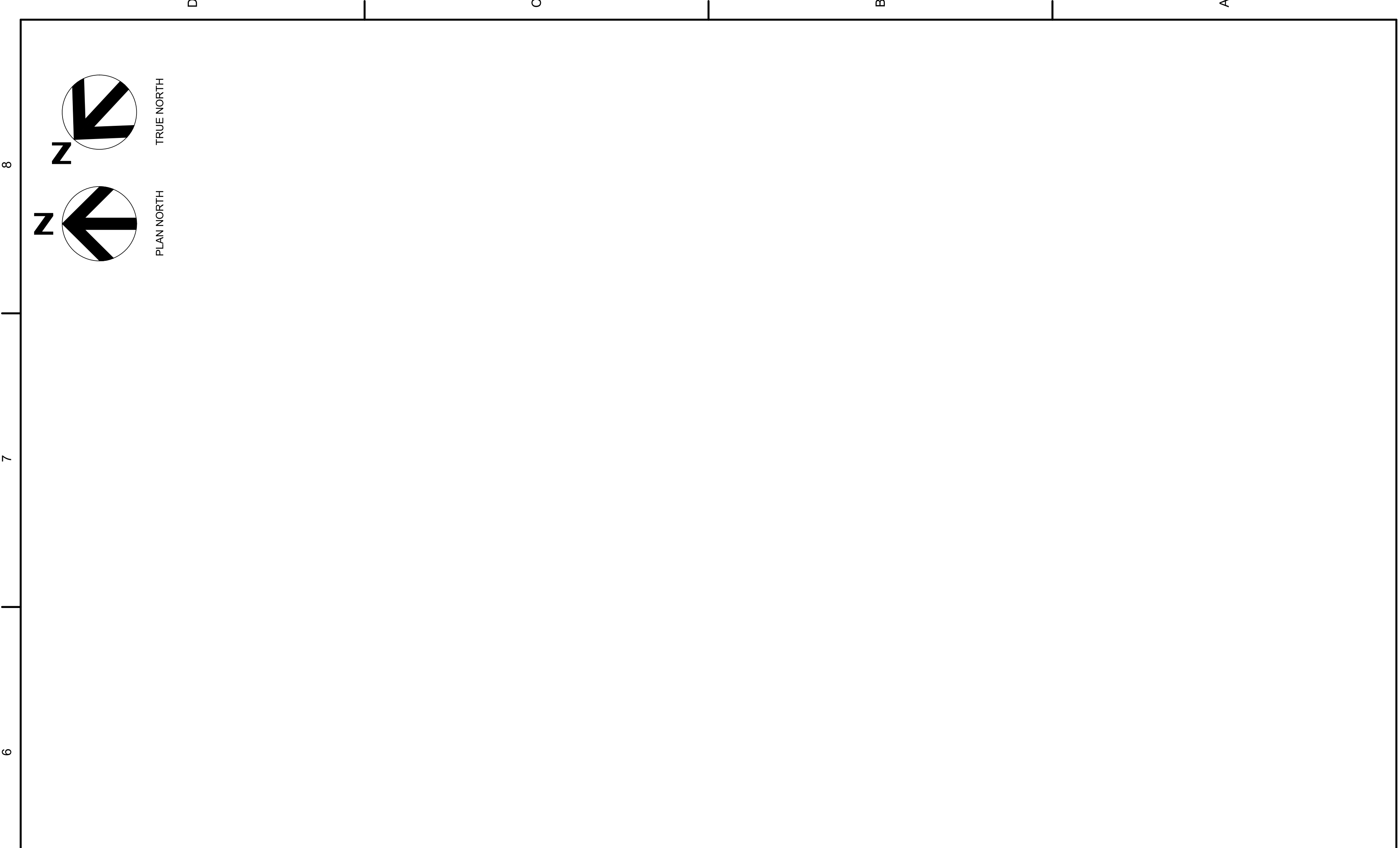
TO EXISTING
SECURITY PANEL
IN HATCHERY
BUILDING

1/2" C
2#14

OXYGEN
TANK LOW
LEVEL
ALARM



ELECTRICAL PLAN
1/2" = 1'-0"



DOUBLE GANG CAST
BOX WITH LIGHT
COVERS & GFI
RECEPTACLE, W.P.

UP 36"

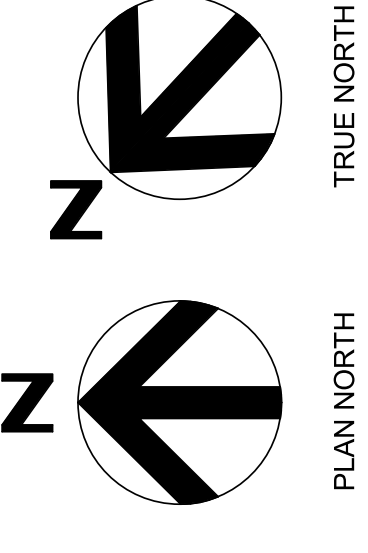
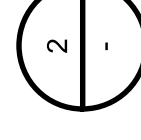
8"X8"X6" HINGED
COVER, NEMA 3R
JUNCTION BOX

3/4" CONDUIT
WITH 2 #12 &
#12 GRD TO
LIGHT POLE,
FIXTURE F1

CONDUITS TO
STORAGE BUILDING

BULK OXYGEN
STORAGE PAD

OXYGEN PAD JUNCTION BOX
RECEPTACLE DETAIL
NOT TO SCALE



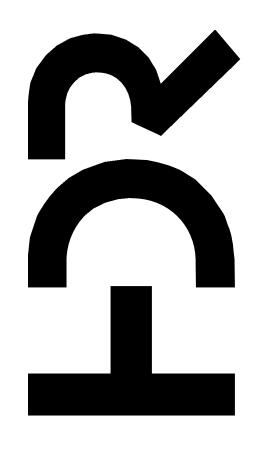
1 2 3 4 5 6 7 8

D

C

B

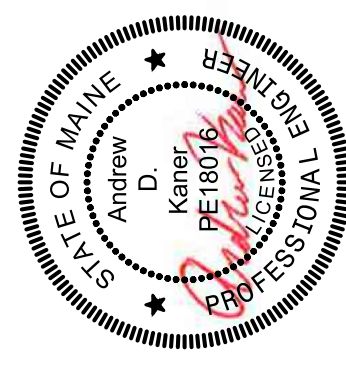
A



PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686

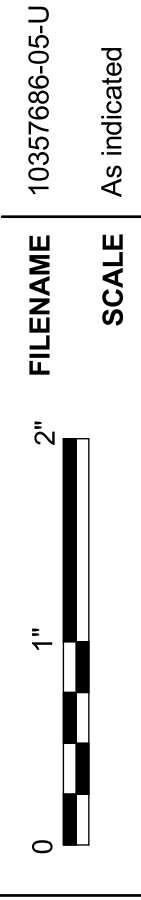
ISSUE	DATE	DESCRIPTION
07/14/2023	ISSUED FOR BID	

IMPROVEMENTS AT GRAND
LAKE STREAM STATE FISH
HATCHERY



Digitally signed by Kaner, Andrew D
Date: 2023.07.14 14:22:40-05'00'

OXYGEN PAD
ELECTRICAL PLAN

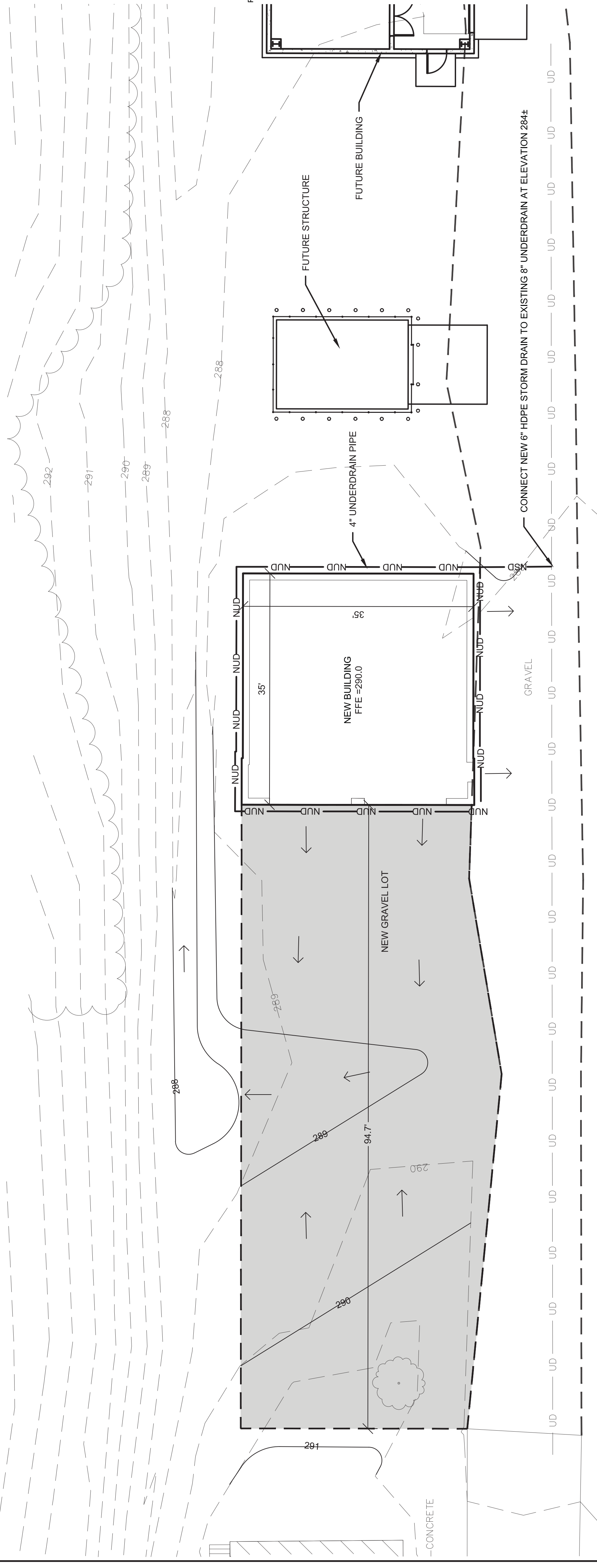
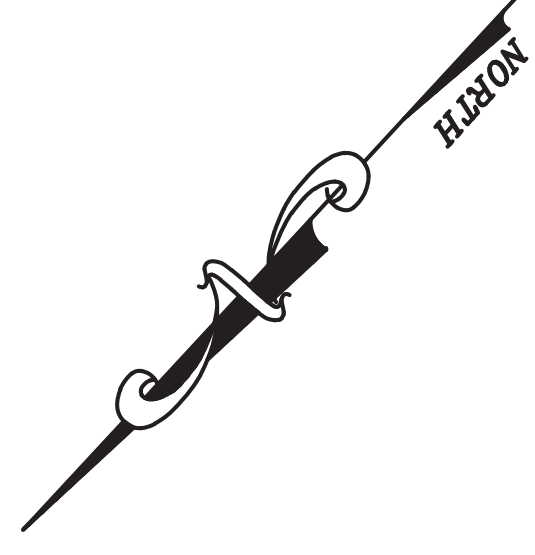


SCALE As indicated

FILENAME 10357686-05-U

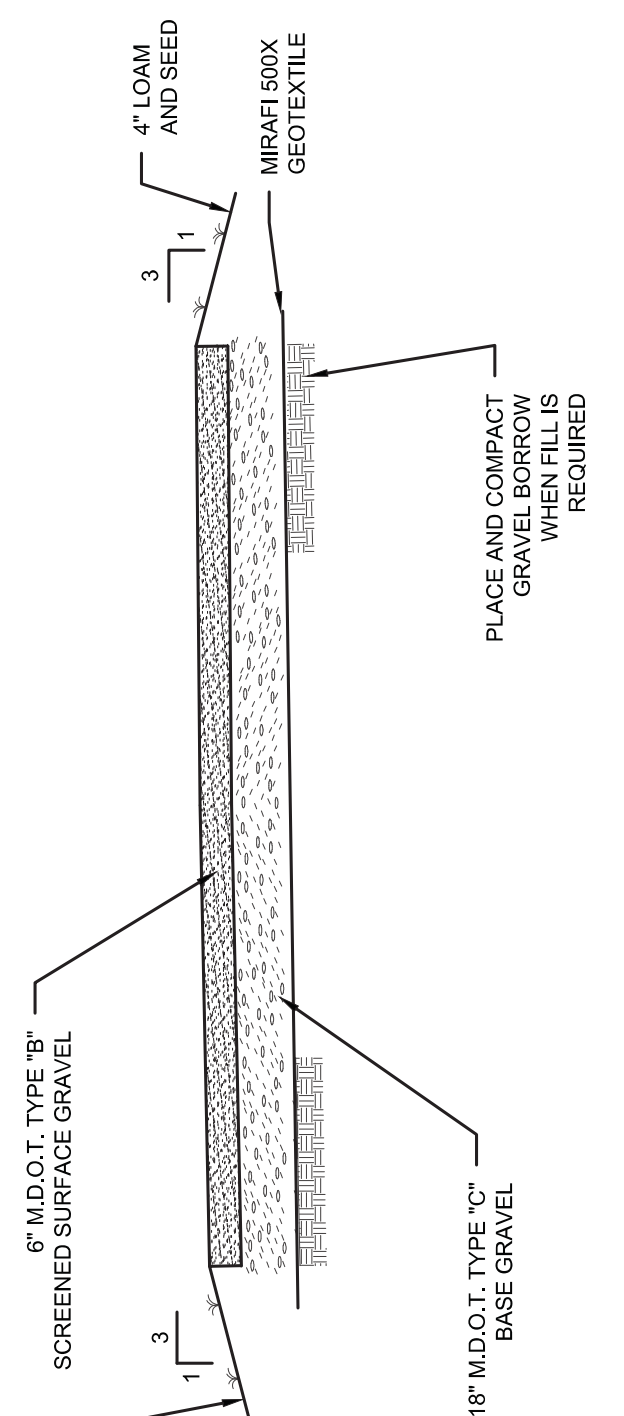
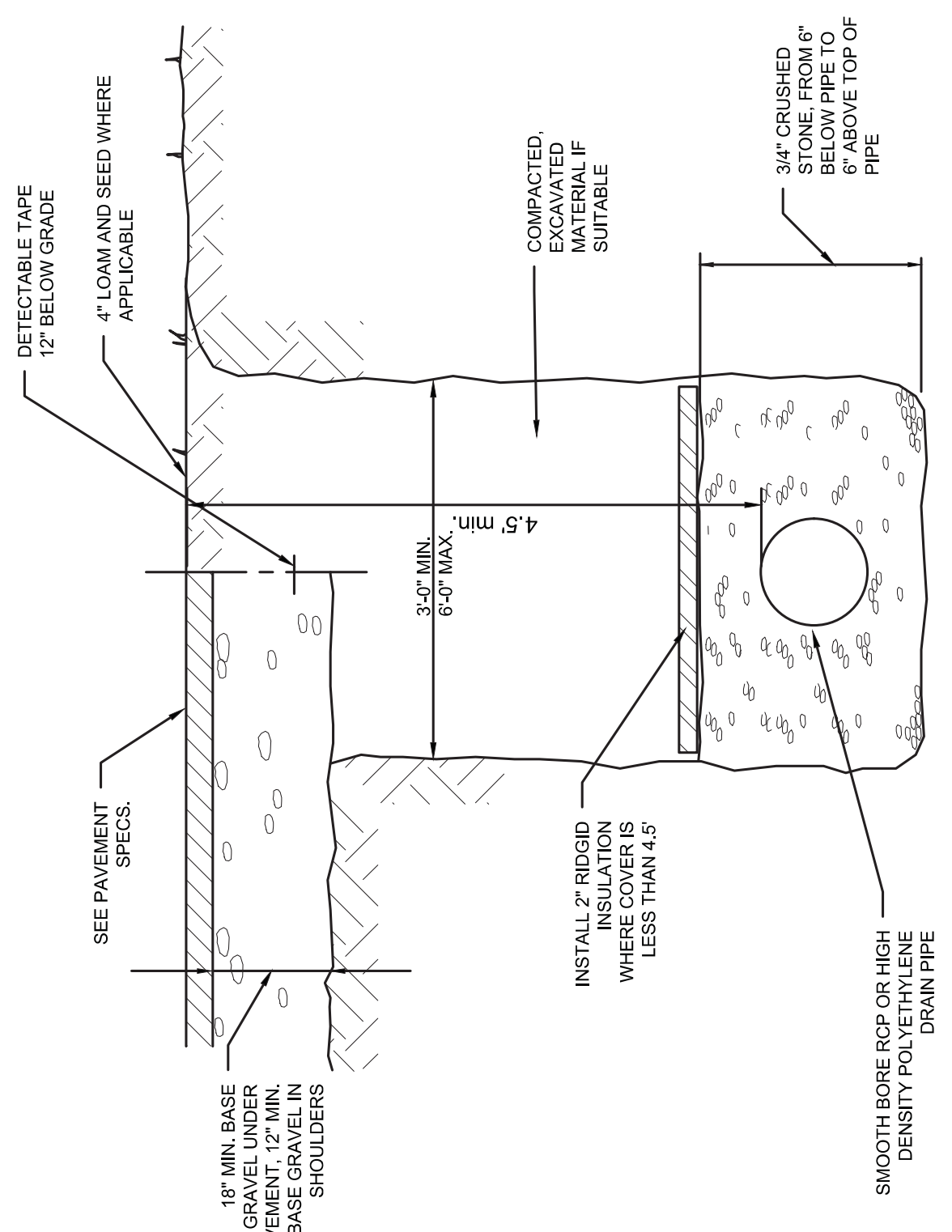
SHEET
05E-101

1 2 3 4 5 6 7 8



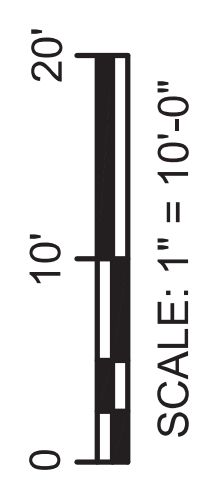
TYPICAL PIPE TRENCH

NOT TO SCALE



TYPICAL GRAVEL PARKING LOT

Not To Scale



PROJECT MANAGER	BEM
ISSUE	DATE
ISSUED FOR BID	DESCRIPTION
07/14/2023	
PROJECT NUMBER	10357686

ISSUE	DATE	ISSUED FOR BID	DESCRIPTION
07/14/2023			

AEHodsdon
CONSULTING ENGINEERS
10 Common Street Waterville, Maine 04901
(207) 873-5164 (207) 872-0645

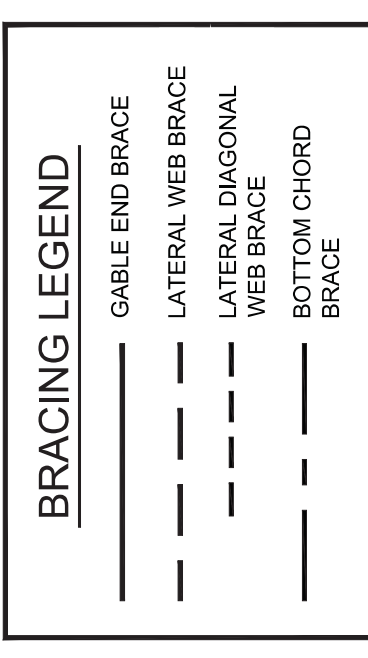
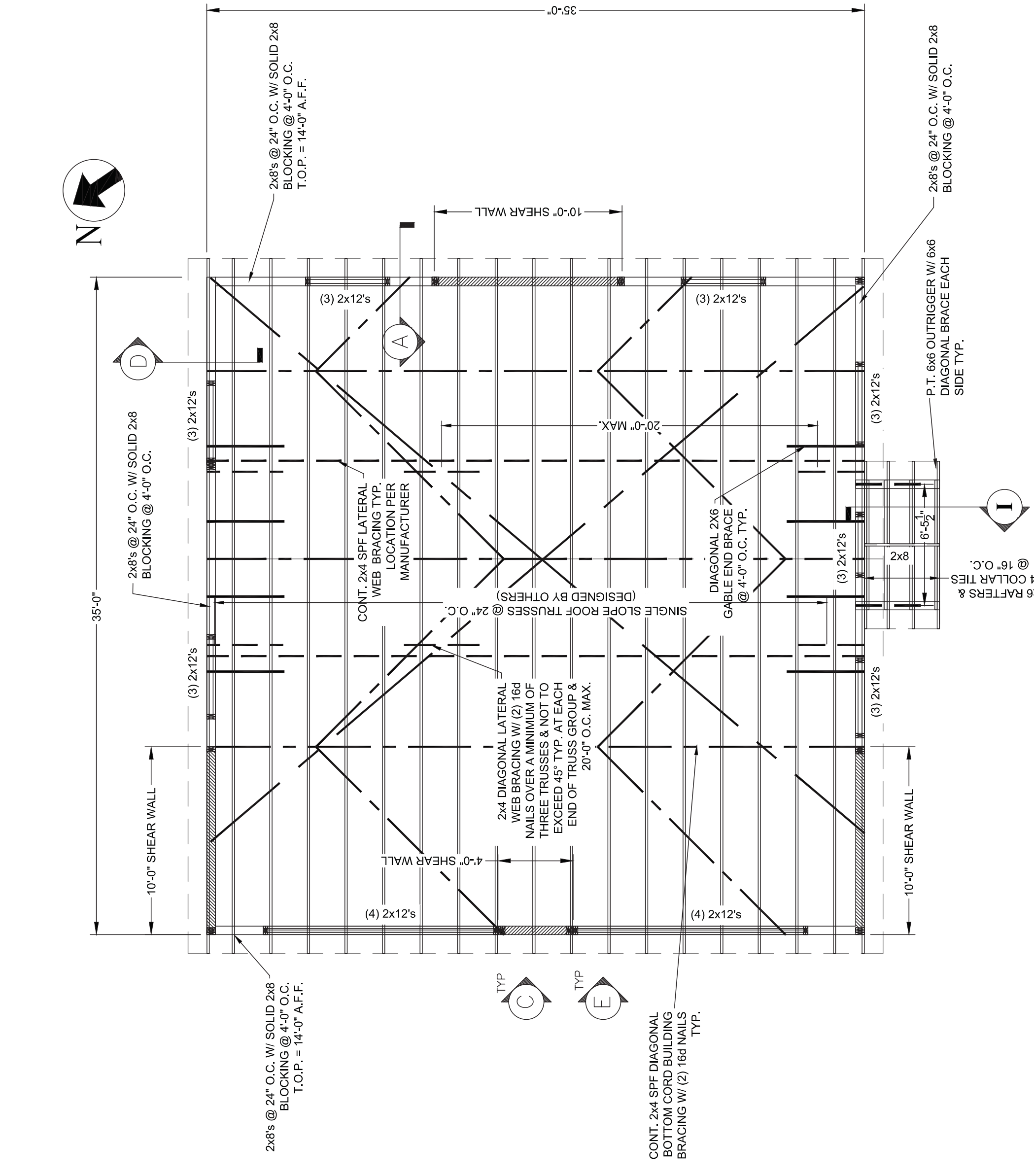
STATE OF MAINE
BENJAMINE MURRAY
No. 10126
Professional Engineer
Date: 2023.07.17 12:37:07 -0400

IMPROVEMENTS AT GRAND LAKE STREAM
GRAND LAKE STREAM, MAINE

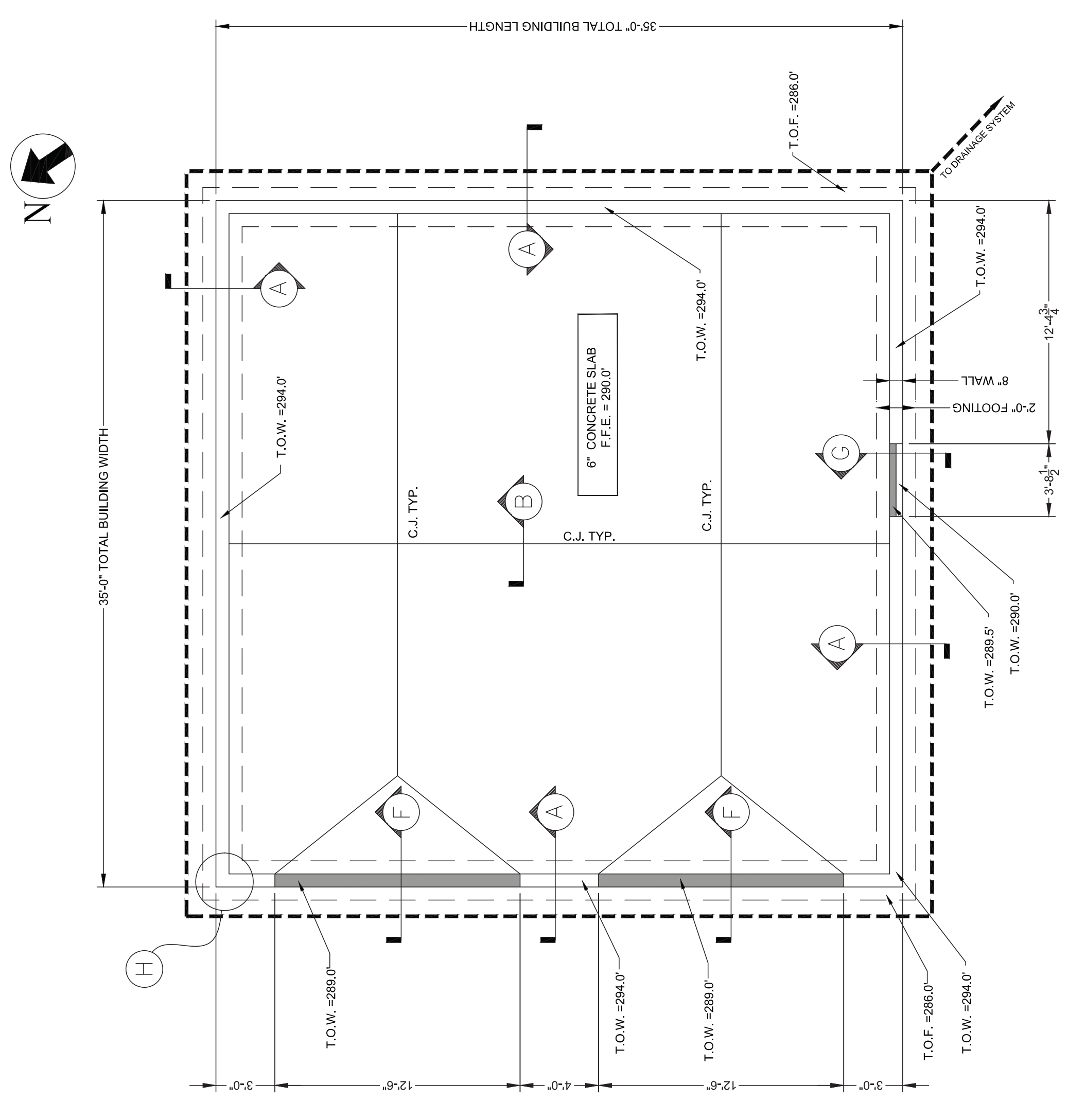
STORAGE BUILDING
SITE PLAN

FILENAME 17-23
SCALE 1"=10'

SHEET
06C-101

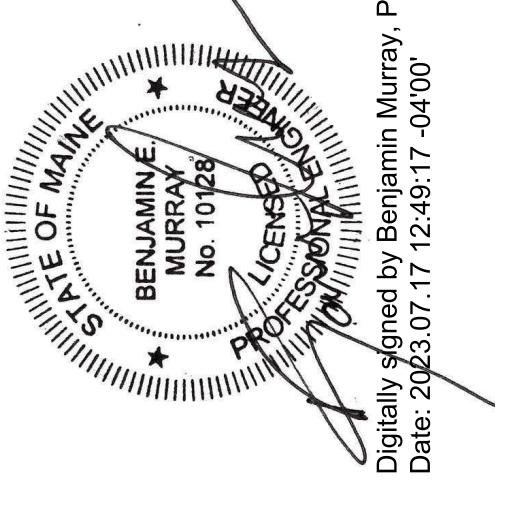


ROOF FRAMING PLAN
SCALE 3/16" = 1'-0"



FOUNDATION PLAN
SCALE 3/16" = 1'-0"

**IMPROVEMENTS AT GRAND LAKE STREAM
GRAND LAKE STREAM, MAINE**



Digitally signed by Benjamin Murray, P.E.
Date: 2023.07.17 12:49:17 -0400

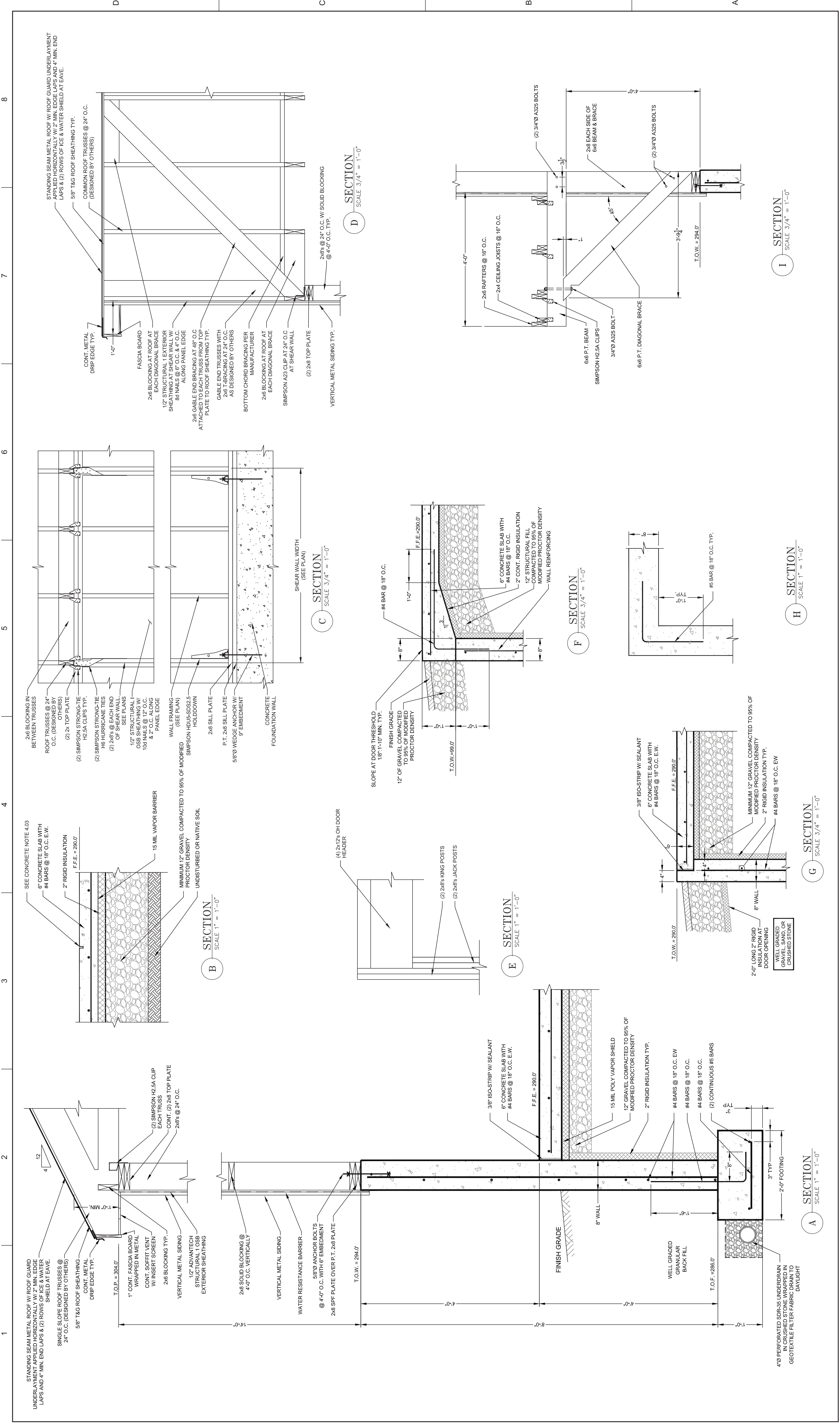
ISSUE	DATE	ISSUED FOR BID DESCRIPTION	PROJECT NUMBER
			10357686

PROJECT MANAGER BEM



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PROJECT MANAGER BEM

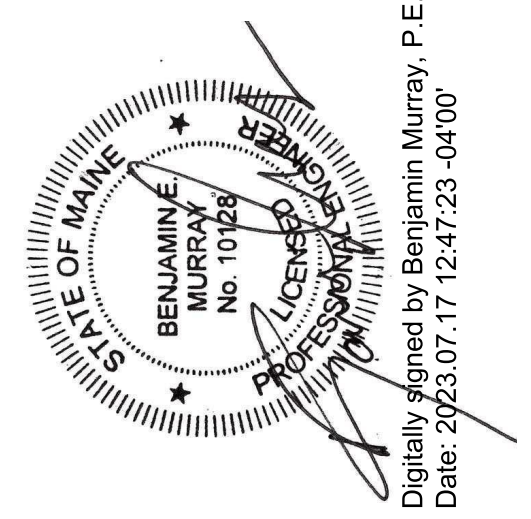


ISSUE	DATE	ISSUED FOR BID	DESCRIPTION
07/14/2023			

PROJECT MANAGER	BEM

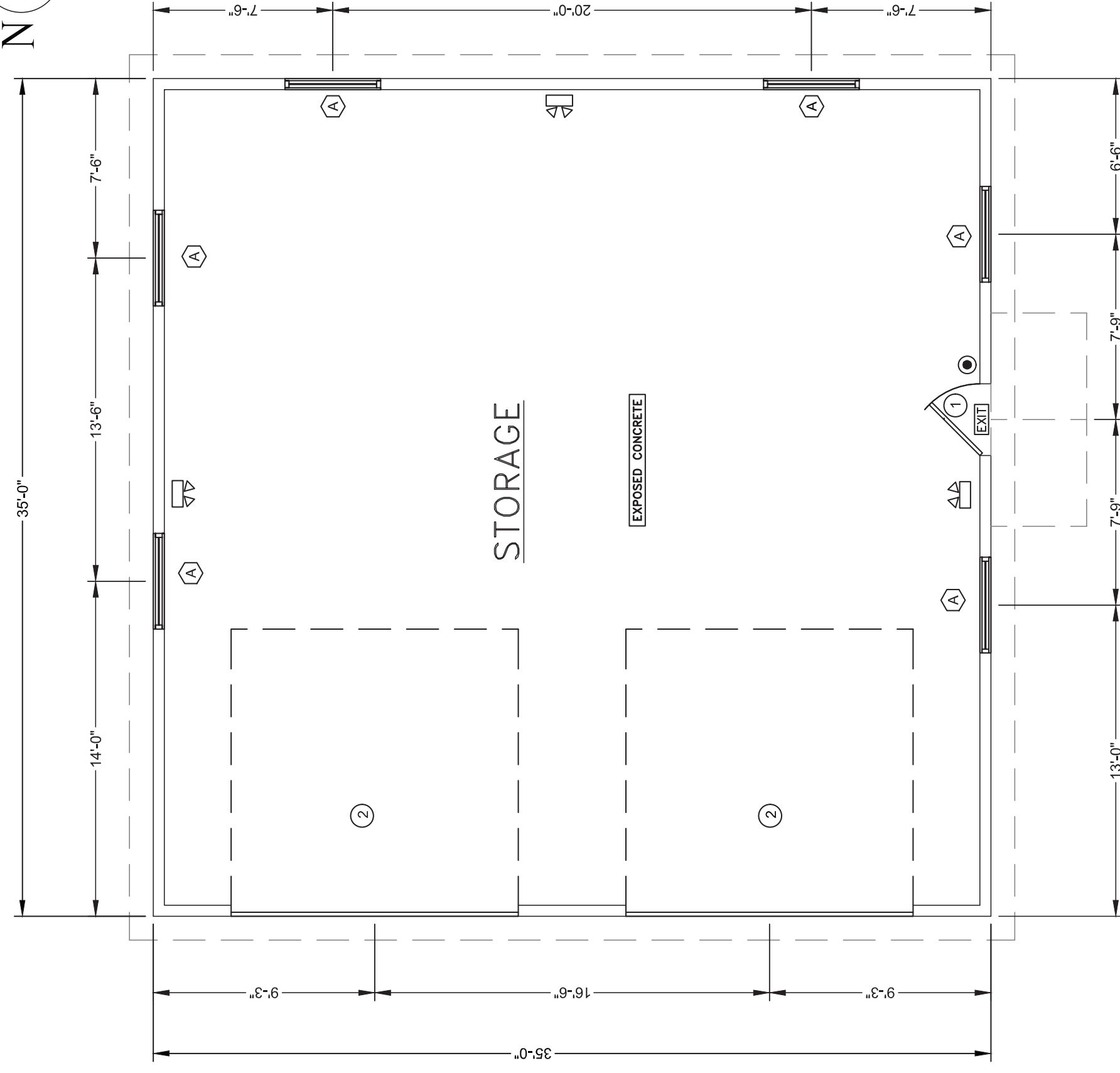
PROJECT NUMBER	10357866

IMPROVEMENTS AT GRAND LAKE STREAM
GRAND LAKE STREAM, MAINE



Digitally signed by Benjamin Murray, P.E.
Date: 2023.07.17 12:47:23 -0400

1 2 3 4 5 6 7 8



LEGEND	
	PROPOSED WALL
	EXIT SIGN
	EMERGENCY LIGHTING
	FIRE EXTINGUISHER

NOTE:
1. FIRE EXTINGUISHER, BRACKET MOUNTED EQUAL TO 2A:108C, 5LB CAPACITY

CODE ANALYSIS

MAINE UNIFORM BUILDING CODE AND ENERGY CODE (MUBEC)
A 2015 IBC
B 2015 IECC

BUILDING DATA:

- A. OCCUPANCY: S-1 MODERATE HAZARD STORAGE
- B. CONSTRUCTION TYPE (602): YB
- C. ALLOWABLE AREA: 9,000 SF
- D. ACTUAL FLOOR AREA: 1,225 SF
- E. MAX. ALLOWABLE HEIGHT (STORIES): 40' (1)
- F. ACTUAL HEIGHT (STORY): < 40' (1)
- G. OCCUPANT LOAD: 1,225 SF / 300SF PER PERSON = 5 OCCUPANTS
- H. EGRESS REQUIREMENTS: 2 EXITS
- I. MAXIMUM ALLOWABLE TRAVEL DISTANCE: 200 FT
- J. ACTUAL TRAVEL DISTANCE: 35'

ENERGY ANALYSIS:

1. BUILDING IS NOT HEATED OR COOLED THUS MEETS EXEMPTION C402.2 IN 2015 IECC FOR NOT HAVING TO MEET THERMAL REQUIREMENTS OF ENERGY CODE.

PLUMBING FIXTURES:

1. EXISTING FACILITIES ONSITE HAVE ADEQUATE RESTROOM, MOP SINK, AND DRINKING FOUNTAINS. THE NEW ADDITION STORAGE BUILDING SHALL NOT REQUIRE A RESTROOM, MOP SINK, AND DRINKING FOUNTAIN BECAUSE EXISTING FACILITIES ARE AVAILABLE ONSITE.

FIRST FLOOR PLAN

SCALE 3/16" = 1'-0"

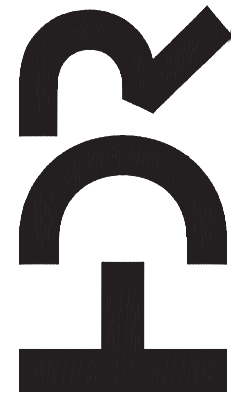
WINDOW SCHEDULE

NO.	QUANTITY	SIZE	TYPE	FRAME	REMARKS
(A)	6	4'-0" x 3'-0"	AWNING	ALUMINUM	ANDERSEN AXW41 UNIT 400 SERIES

DOOR SCHEDULE

NO.	QUANTITY	SIZE	TYPE	FRAME	REMARKS
(1)	1	9'-0" x 6'-6"	METAL INSULATED	METAL	HINGES, LEVER HARDWARE, ADA THRESHOLD, CLOSER DEAD BOLT, ENTRY LOCKSET
(2)	2	12'-0" x 12'-0"	OVERHEAD	N/A	TRACK, AUTOMATIC OPENER, REMOTE

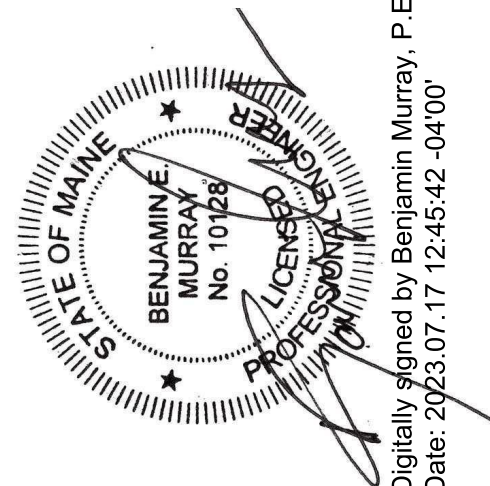
NOTES:
1. DOOR LEVER HARDWARE SHALL RETRACT DEADBOLT TO ALLOW FOR FREE EGRESS.
2. DOORS SHALL HAVE WEATHERSTRIPPING, BOTTOM DOOR SWEEP, AND WALL GUARD.



PROJECT MANAGER BEM

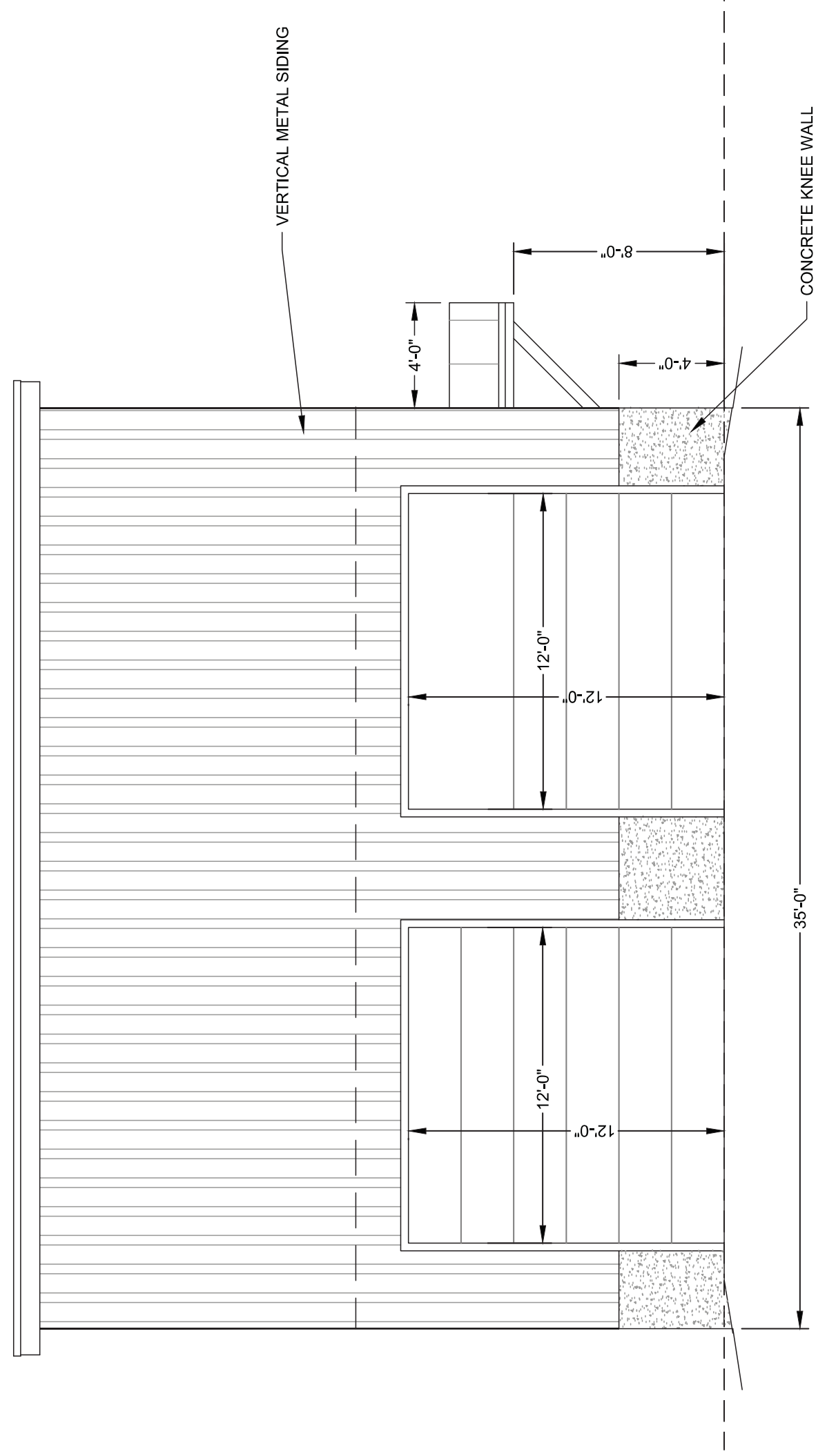
ISSUE	DATE	ISSUED FOR BID DESCRIPTION
07/14/2023		ISSUED FOR BID DESCRIPTION

PROJECT NUMBER	10357686
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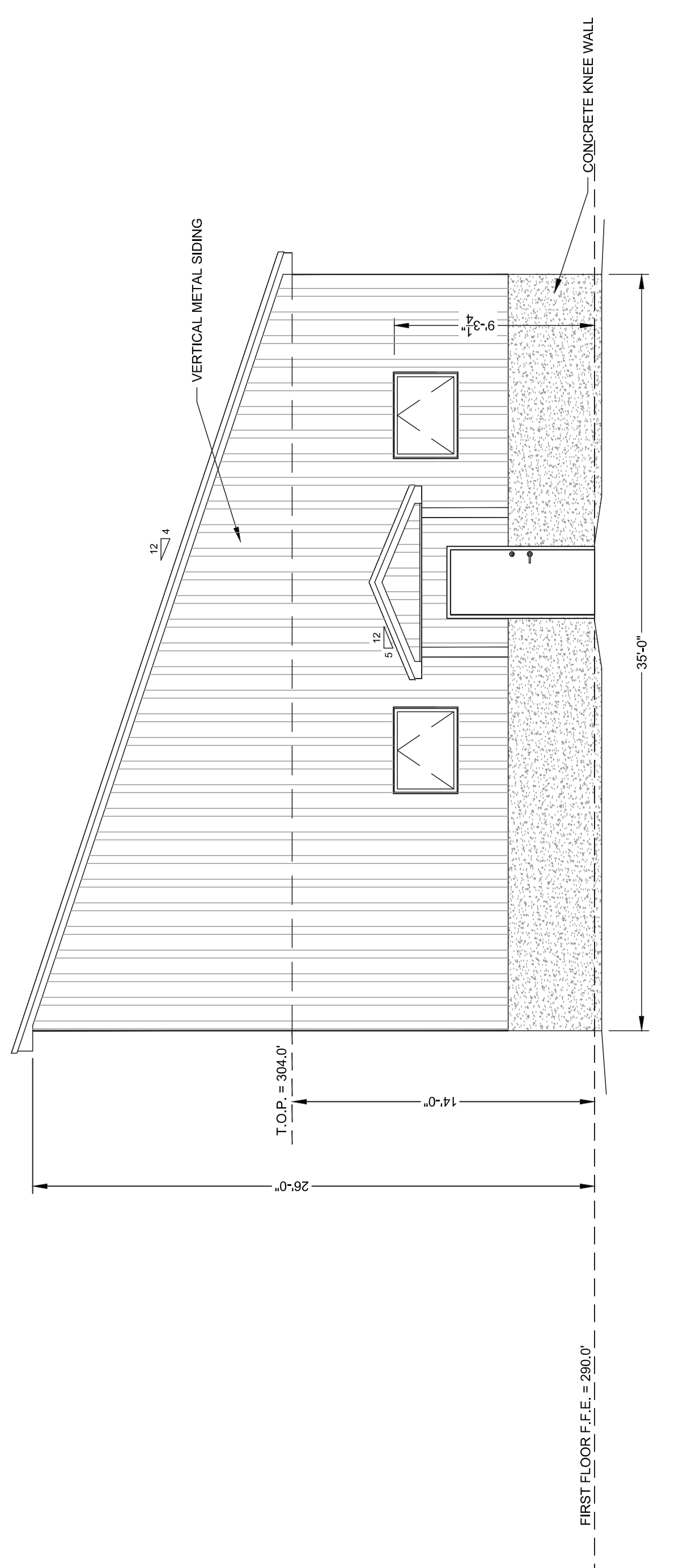


IMPROVEMENTS AT GRAND LAKE STREAM
GRAND LAKE STREAM, MAINE

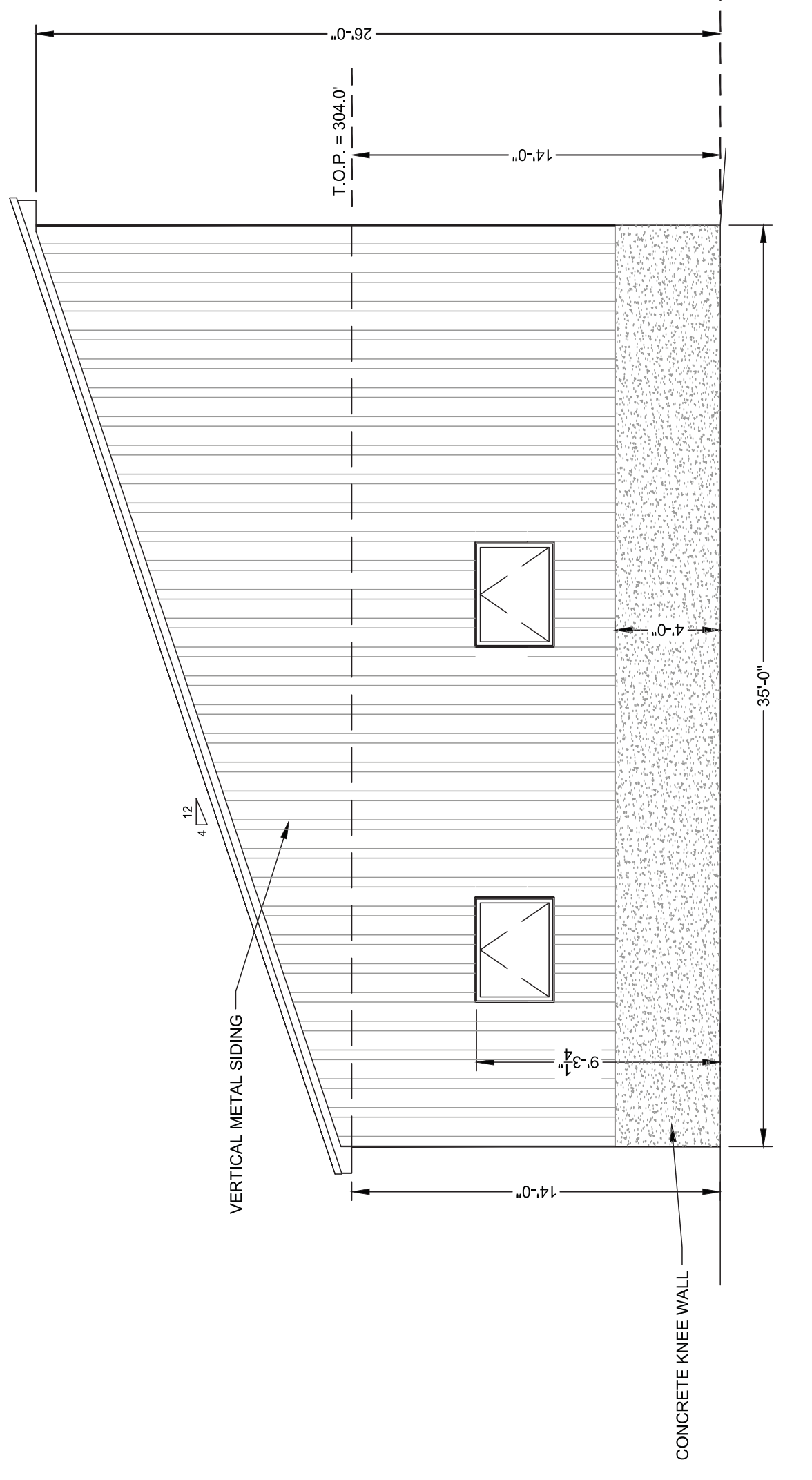
STORAGE BUILDING
FLOOR PLAN



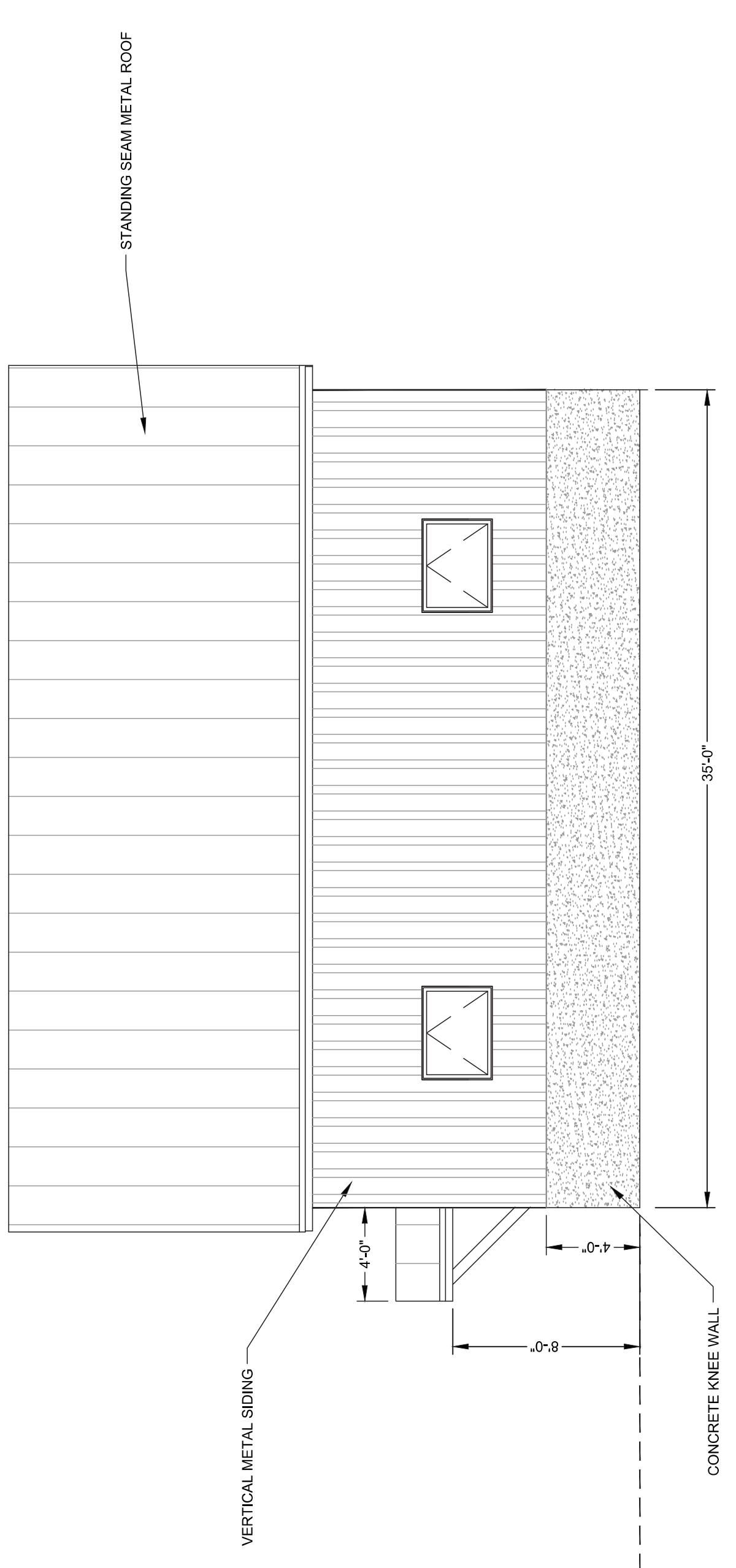
WEST ELEVATION
SCALE 3/16" = 1'-0"



SOUTH ELEVATION
SCALE 3/16" = 1'-0"



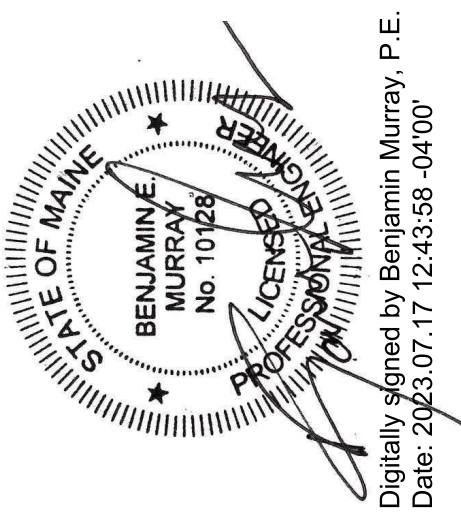
NORTH ELEVATION
SCALE 3/16" = 1'-0"



EAST ELEVATION
SCALE 3/16" = 1'-0"

ISSUE	DATE	ISSUED FOR BID DESCRIPTION	PROJECT NUMBER
07/14/2023			10357686

PROJECT MANAGER BEM

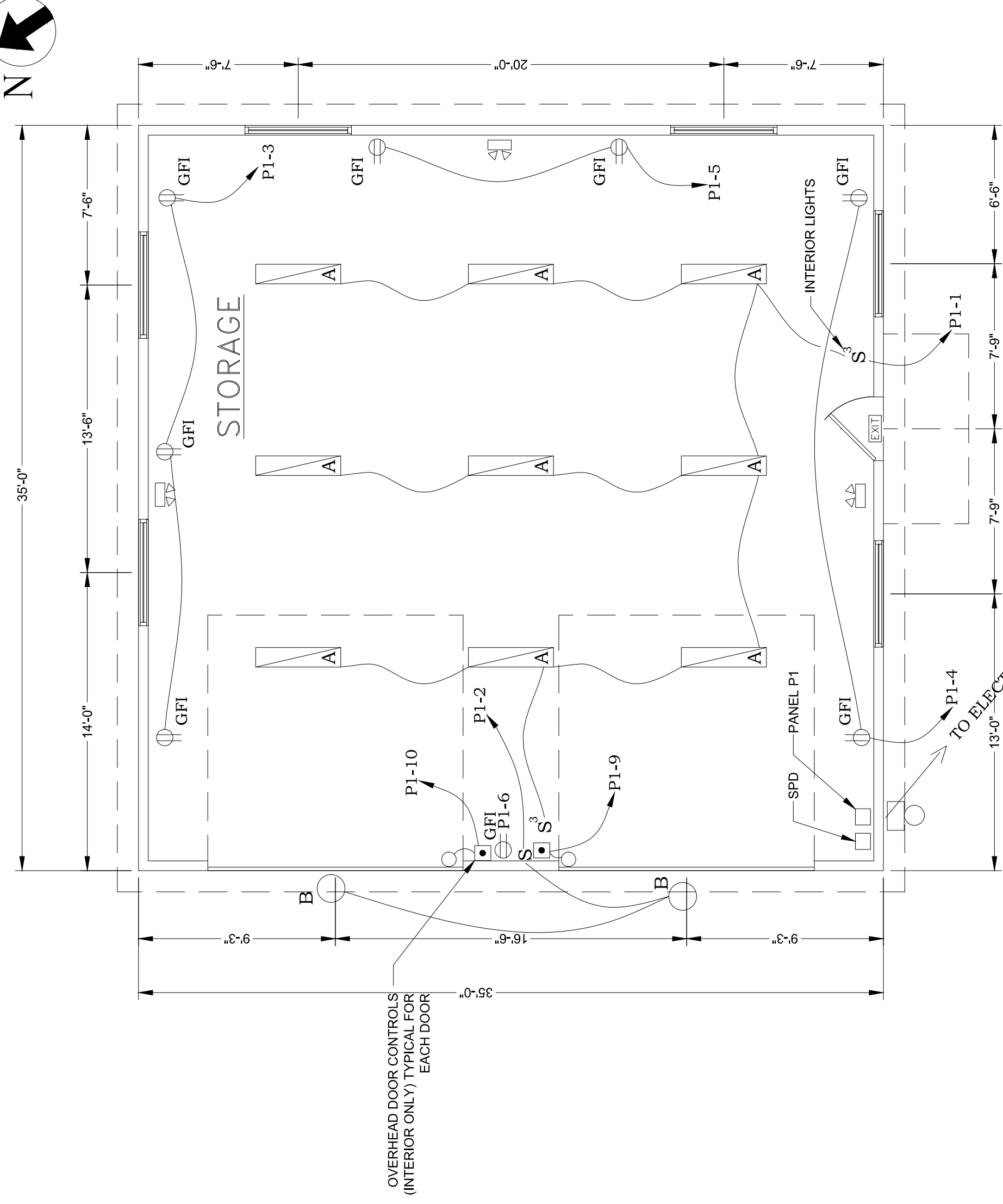


**IMPROVEMENTS AT GRAND LAKE STREAM
GRAND LAKE STREAM, MAINE**

**STORAGE BUILDING ELEVATION
PLAN - OPTION A**

LEGEND

- LED LIGHTING FIXTURE; LETTER INDICATES TYPE
- DUPLEX 20A RECEPTACLE 48" AFF
- S SINGLE POLE SWITCH 48" AFF
- S3 3 WAY SWITCH 48" AFF
- UTILITY METER
- OHE OVERHEAD ELECTRICAL WIRES
- OVERHEAD DOOR OPERATOR CONTROL PANEL OR AS LABELED
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AFG GROUND FAULT CIRCUIT PROTECTOR
- SPD SURGE PROTECTIVE DEVICE
- OHD OVERHEAD DOOR

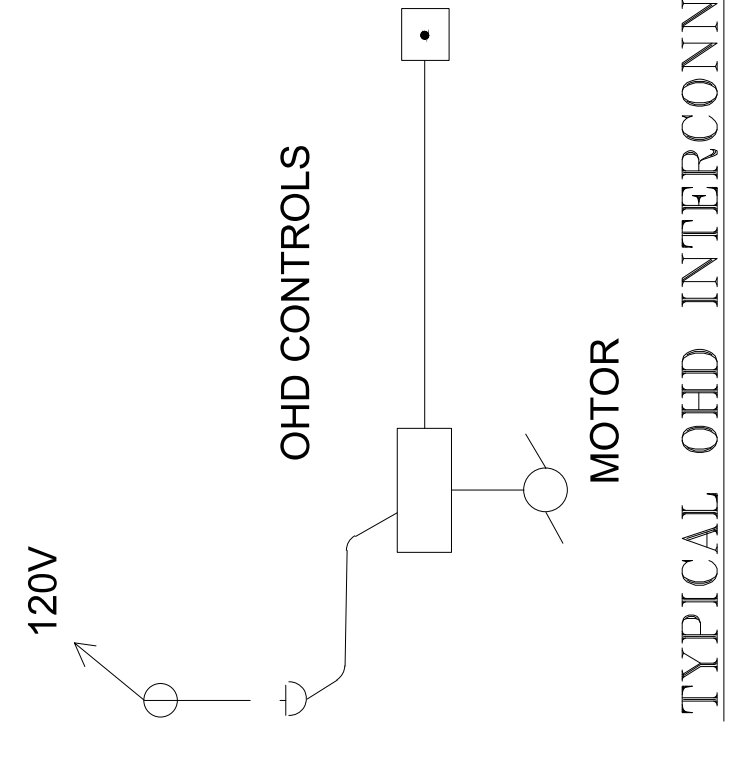
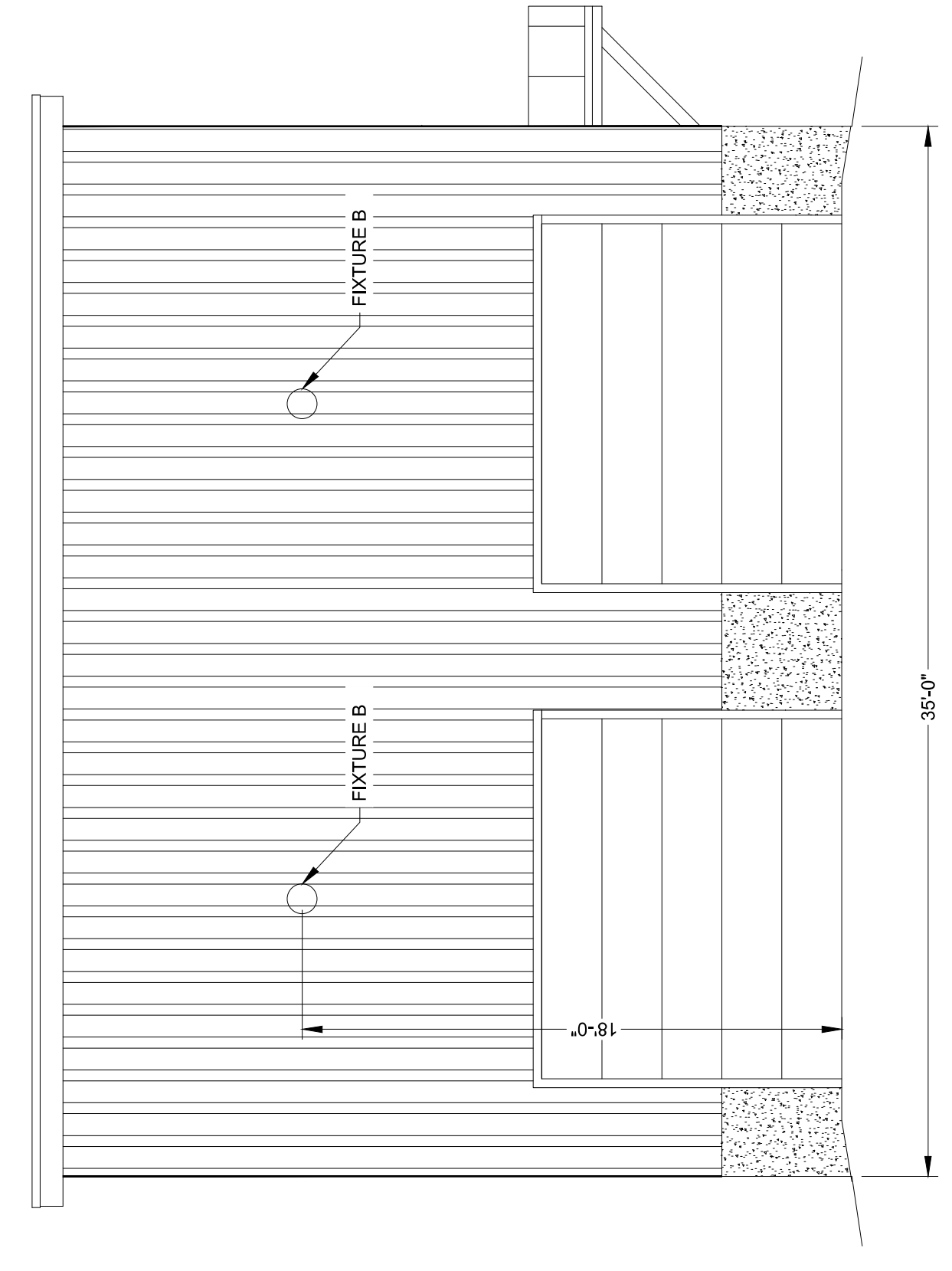


ELECTRICAL FLOOR PLAN
SCALE 3/16" = 1'-0"

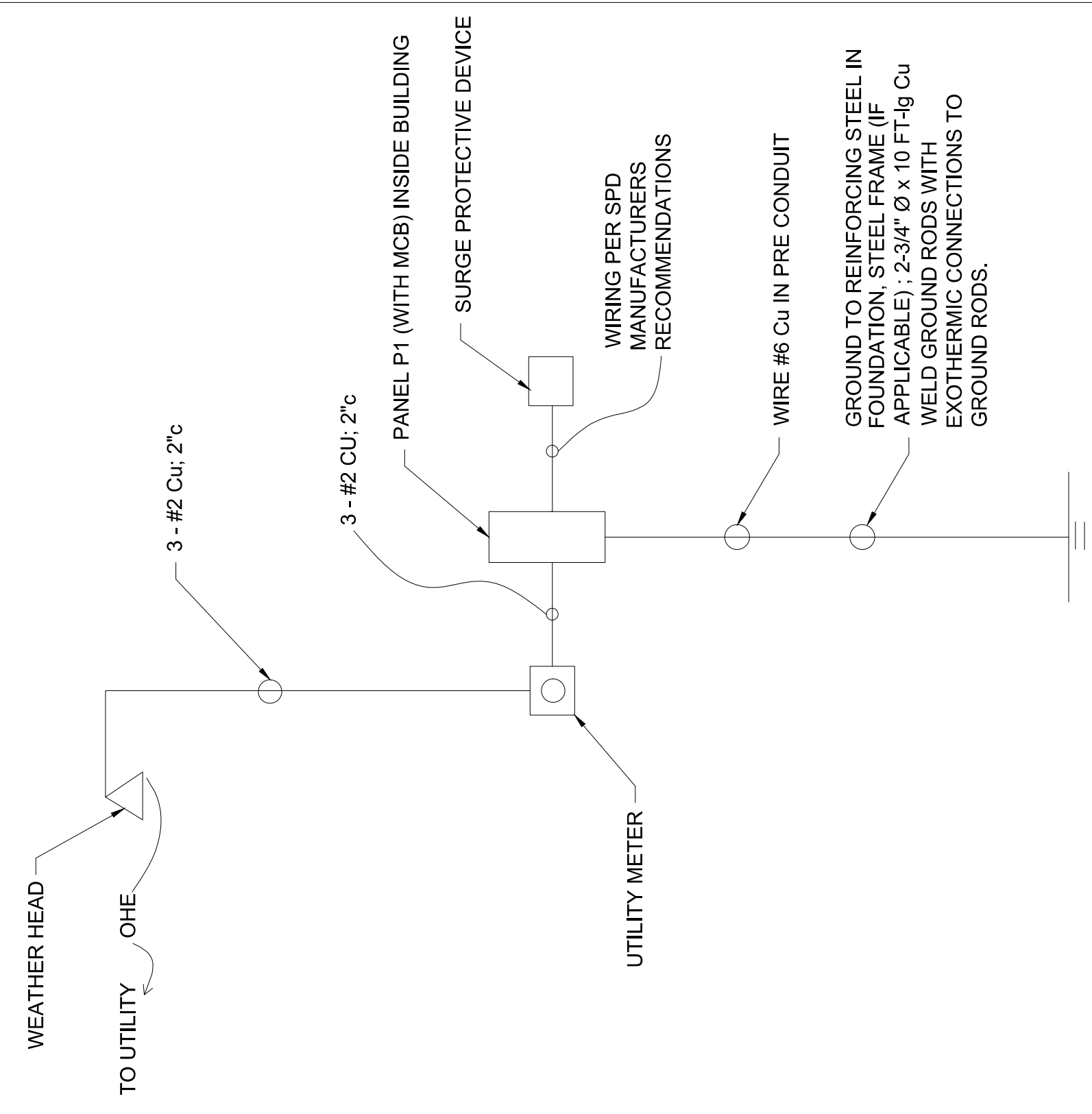
NOTE:
CONTRACTOR SHALL PERFORM VOLTAGE DROP CALCULATIONS FOR INTERIOR LIGHTING CIRCUIT AND RECEPTACLE CIRCUITS, AND PROVIDE CONDUCTORS THAT SHALL BE THE VOLTAGE DROP EQUIVALENT TO THE VOLTAGE DROP CALCULATED. ALL SHOP DRAWINGS SHALL BE SUBMITTED WITH SHOP DRAWINGS FOR ENGINEERS APPROVAL.

[A] FIELD COORDINATE MOUNTING FOR POWER TO OVERHEAD DOOR

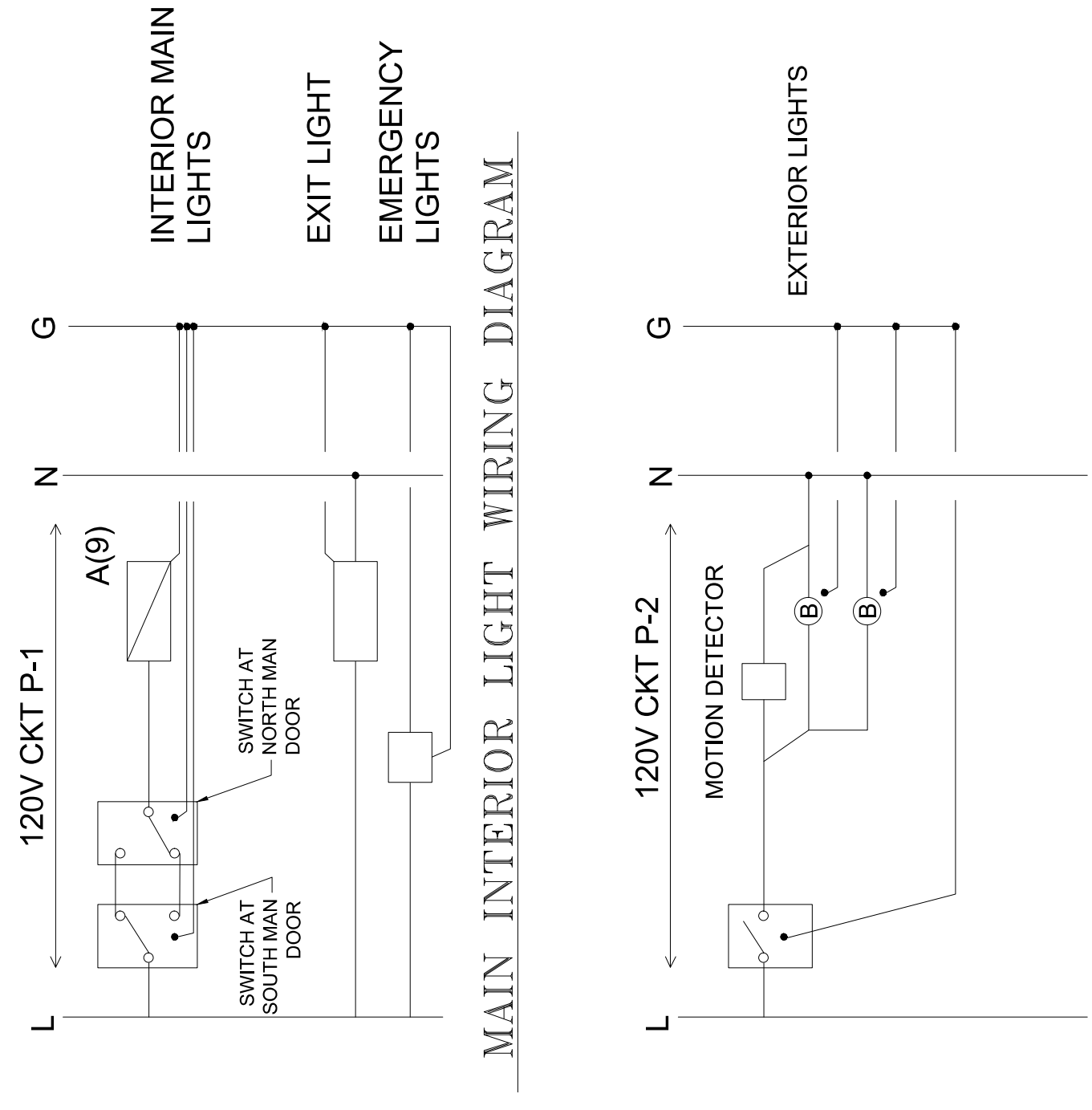
ELECTRICAL ELEVATION
SCALE 3/16" = 1'-0"



TYPICAL OHD INTERCONNECTION DIAGRAM



ELECTRIC SERVICE INTERCONNECTION DIAGRAM



WORK AND EXTERIOR LIGHTING WIRING DIAGRAM

FIXTURE SCHEDULE

TYPE	FIXTURE MAKE	FIXTURE MODEL	MOUNTING	LAMPING
A	LITHONIA	ZLIN L48-5000LM FST-MVOLT 50K 80 CRI WH	SURFACE ON BOTTOM OF TRUSS	21.7W/LED
B	RAB	WPLED 4T 78 N WITH SMS 500	WALL 18 FT AFG	78W/LED
EXIT	LITHONIA	LV S W I R 120 UM CW	WALL ABOVE DOOR	2.3W/LED
EMRG	LITHONIA	EU2L	WALL 10 FT AFG	LED

PANEL P1 SCHEDULE - A SURFACE MOUNTED
100 AMP MCB, 240/120 VOLT, 1 PHASE, 3 WIRE, 60 HZ

CIRCUIT NO.	DESCRIPTION	NO. POLES	RATING	LOAD
1	INTERIOR LIGHTS	1	20"	1.6A
2	EXTERIOR LIGHTS	1	20"	1.3A
3	RECEPT - N	1	20"	4.5A
4	RECEPT - S	1	20"	3.0A
5	RECEPT - E	1	20"	3.0A
6	RECEPT - W	1	20"	1.5A
7	SPACE	1	20"	
8	SPACE	1	20"	
9	OH DOOR S	1	20"	9.8A
10	OH DOOR N	1	20"	9.8A
11,13	SPD	2	**	
12-14	SPACE	2	20"	
15-16	SPACE	1	20"	
17-24	SPACE	-	20"	

** PROVIDE HANDLE LOCK ON CIRCUITS
** RATING PER SPD MANUFACTURER RECOMMENDATION

ISSUE	DATE	ISSUED FOR BID	DESCRIPTION
07/14/2023			

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F2R

STATE OF MAINE
Professional Seal for Steven Jonason, License No. 10357686

IMPORVEMENTS AT GRAND LAKE STREAM
GRAND LAKE STREAM, MAINE