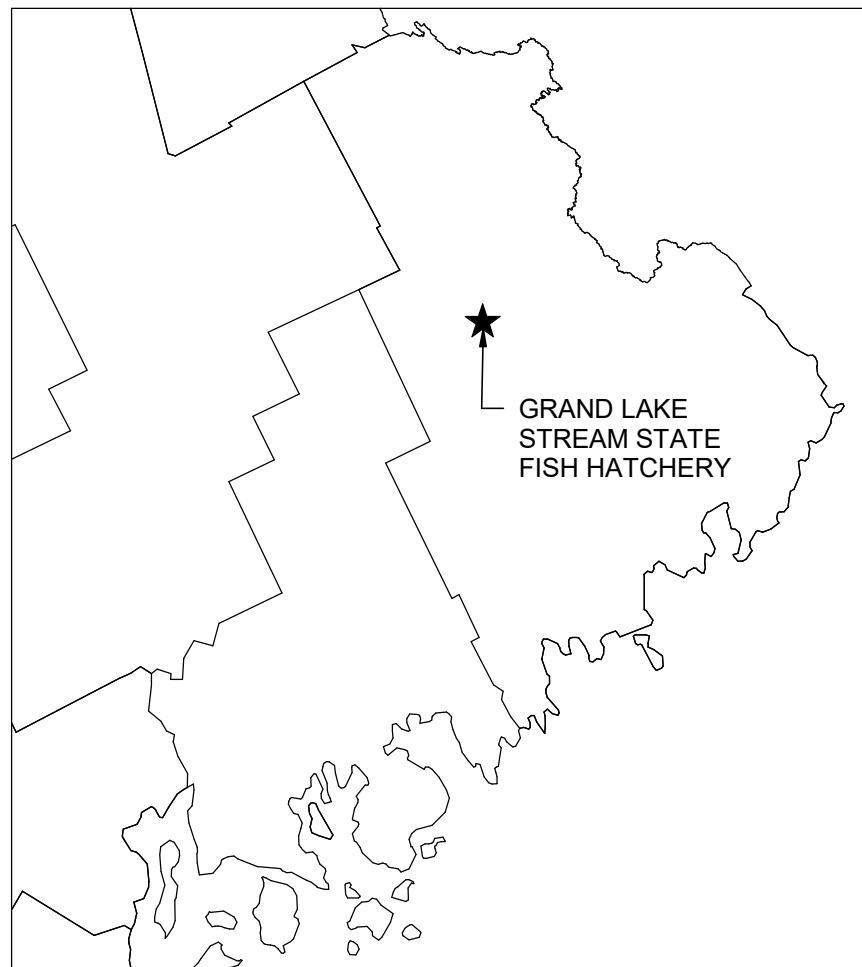


State Location Map



Vicinity Map

Contract Drawings For

# IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

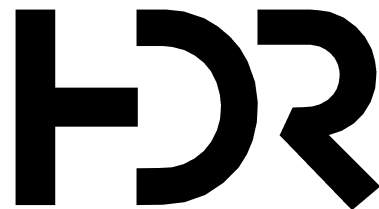
## Grand Lake Stream, Maine

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

ISSUED FOR BID

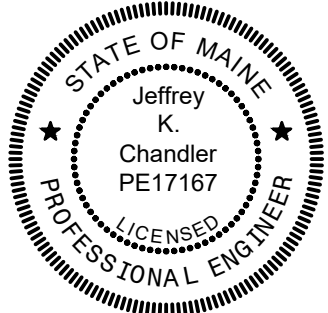
Date: MAY 3, 2024

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05/03/2024	ISSUED FOR BID	
ISSUE	DATE	DESCRIPTION

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

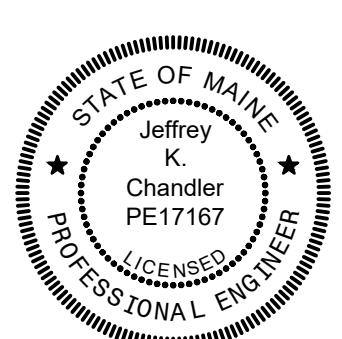
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SHEET  
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A/C A/E A AB ABAN ABC ABT AC ACK ACP  ACST AD ADDL ADH ADJ AF AFF AFG AGGR AI AIC ALIG ALT ALUM AM AMB ANC AO AP APRX APVD ARCH ASSY AT ATC ATM AUTO AUX AVE AVG AWG AWT  B TO B BAL BBD BC  BD BE BF  BITUM BKG BL BLDG BLK BLKG BM BOC BOD BOG BOL BOR BOT BOU BP BRG BRGP BRKT BS BTU BTW BTWLD BU BUR BW BYP  CTOC C&G C CAB CAP CAT CAV CB CCB CCW CDF CE CER CF CFL CHBD CHD CHFR CHH CI CIP CIPB  CIRC CJ CKT CL CLG	AIR CONDITIONING ARCHITECT/ENGINEER AMPERE ANCHOR BOLT ABANDON AGGREGATE BASE COURSE ABOUT ALTERNATING CURRENT ACKNOWLEDGE ACOUSTIC CEILING PANEL, ASPHALTIC CONCRETE PAVEMENT ACOUSTIC ADDENDUM, AREA DRAIN ADDITIONAL ADHESIVE ADJUSTABLE, ADJACENT AMP FRAME, AMP FUSE ABOVE FINISH FLOOR ABOVE FINISH GRADE AGGREGATE AREA INLET, ANALOG INPUT AMPS INTERRUPTING CAPACITY ALIGNMENT ALTERNATE, ALTITUDE ALUMINUM ACOUSTICAL MATERIAL AMBIENT ANCHOR ANALOG OUTPUT ACCESS PANEL APPROXIMATE APPROVED ARCHITECTURAL ASSEMBLY ACOUSTICAL TILE, AMP TRIP ACOUSTICAL TILE CEILING ATMOSPHERE AUTOMATIC AUXILIARY AVENUE AVERAGE AMERICAN WIRE GAGE ACOUSTICAL WALL TILE  BACK TO BACK BALANCE BULLETIN BOARD BASE CABINET, BOTTOM CHORD, BOLT CENTER, BOLT CIRCLE BOARD BOTH ENDS, BELL END BOTH FACES, BOTTOM FACE, BLIND FLANGE, BOARD FEET BITUMINOUS BACKING BASE LINE BUILDING BLOCK BLOCKING BENCHMARK, BEAM BACK OF CURB BOTTOM OF DUCT BOTTOM OF GRILLE BOTTOM OF LOUVER, BOLLARD BOTTOM OF PIPE BOTTOM OF REGISTER BOTTOM BOTTOM OF UNIT BASE PLATE BEARING BEARING PLATE BRACKET BOTH SIDES BRITISH THERMAL UNIT BETWEEN BUTT WELD BELL UP, BUILT-UP BUILT-UP ROOFING BOTH WAYS BYPASS  CENTER TO CENTER CURB AND GUTTER CHANNEL SHAPE, CENTIGRADE, CONDUIT CABINET CAPACITY CATALOG, CATEGORY CAVITY CATCH BASIN CONCRETE BLOCK COUNTER CLOCKWISE CONTROLLED-DENSITY FILL CONCRETE EDGE CERAMIC CUBIC FEET (FOOT) COUNTER FLASHING CHALKBOARD CHORD CHAMFER COMMUNICATION HANDHOLE CURB INLET CAST-IN-PLACE CONCRETE INTERLOCKING PAVER BALLAST CIRCULATION, CIRCULAR CONSTRUCTION JOINT CIRCUIT CENTERLINE, CLASS, CLOSE CEILING	CLKG CLR CMH CMP CMU CO COL COM COMB COMM COMP  CON CONC CONN CONST CONT COOR CORR CP CPLG CRL CSC CSS CT CTJ CTR CTRL CVT CU CW CY  d D DB DBA DBL DC DEG DEG C DEG F DEMO DEP DEPT DET DI DIA DIAG DIFF DIM DISCH DIST DIV DL DMJ DMPF DN DO DP DPDT DPST DS DT DUP DWG DWL DWR  E EA EC ECC ED EDB EE EFF EHH EIFS  EJ EL ELEC EMBD EMER EMH ENCL ENGR ENTR EOP EQ EQUIP EQUIV ES  ESEW EST EW  EWC EWEF EWTB EXC EXH EXP EXST EXT	CAULKING CLEAR COMMUNICATION MANHOLE CORRUGATED METAL PIPE CONCRETE MASONRY UNIT CLEANOUT, CONCRETE OPENING COLUMN COMMON COMBINATION COMMUNICATION COMPOSITION, COMPRESSIBLE, COMPOSITE CONCENTRIC CONCRETE CONNECTION CONSTRUCTION CONTINUOUS COORDINATE CORROSIVE, CORRUGATED CHECKER PLATE, CONTROL POINT COUPLING CORROSION-RESISTANT LINING COMPRESSION SLEEVE COUPLING COUNTERSINK CLINIC SERVICE SINK CERAMIC TILE CONTRACTION JOINT CENTER CONTROL CULVERT COPPER, CUBIC CLOCKWISE CUBIC YARD  PENNY (NAIL MEASURE) DEEP, DIFFUSER, DRAIN DUCT BANK, DECIBEL, DRY BULB DEFORMED BAR ANCHOR DOUBLE DIRECT CURRENT DEGREE DEGREE CENTIGRADE DEGREE FAHRENHEIT DEMOLITION DEPRESSED DEPARTMENT DETAIL DROP INLET, DUCTILE IRON, DIGITAL INPUT DIAMETER DIAGONAL, DIAGRAM DIFFERENTIAL, DIFFERENCE DIMENSION DISCHARGE DISTANCE, DISTRIBUTION DIVISION DEAD LOAD DOUBLE MECHANICAL JOINT DAMP PROOFING DOWN DISSOLVED OXYGEN, DIGITAL OUTPUT, DITTO DEPTH DOUBLE POLE, DOUBLE THROW DOUBLE POLE, SINGLE THROW DOWN SPOUT DOUBLE TEE, DRIP TRAP ASSEMBLY DUPLICATE DRAWING DOWEL DRAWER  EAST EACH, EXHAUST AIR ELECTRICAL CONTRACTOR ECCENTRIC EQUIPMENT DRAIN ELECTRICAL DUCT BANK EACH END EACH FACE EFFLUENT, EFFICIENCY ELECTRICAL HANDHOLE EXTERIOR INSULATION & FINISH SYSTEM EXPANSION JOINT ELBOW, ELEVATION ELECTRICAL EMBEDDED EMERGENCY ELECTRICAL MANHOLE ENCLOSURE ENGINEER ENTRANCE EDGE OF PAVEMENT EQUAL EQUIPMENT EQUIVALENT EACH SIDE, EQUAL SPACE, EMERGENCY SHOWER EMERGENCY SHOWER AND EYE WASH ESTIMATE EACH WAY, EMERGENCY EYE/FACE WASH ELECTRIC WATER COOLER EACH WAY, EACH FACE EACH WAY, TOP AND BOTTOM EXCAVATION EXHAUST EXPANSION, EXPOSED EXISTING EXTERIOR, EXTERNAL, EXTENSION	F TO F F&B FAB FB FBD FBG FBM FBO FC FCA FD FDC FDR FDN FE FEC FES FEXT FF FG FH FIG FIN FJT FL FLEX FLG FLOR FLR FLS FN FO FOB FOC FOF FOIM FOS FOT FPT FR FRP FRMT FS FSW FT FTG FUR FURN FUT FV FW FWD FWE FXTR  G GA GAL GALV GB GC GD GEN GFCI GFMU GG GJ GL GLB GND GP GR GRTG GSB GT GVL GW GWB GYP  H HB HBD HC  HD HDR HDW HEX HGR HH HID HM HORIZ HP HPC HPS HPT HS HSS HT HTG HV HVAC  HWD HWL HYD HZ	FACE TO FACE FACE AND BYPASS FABRICATE FLOOR BEAM FIBERBOARD FIBERGLASS BOARD FOOT MEASURE FURNISHED BY OWNER FLUSHING CONNECTION FLANGED COUPLING ADAPTER FLOOR DRAIN FLEXIBLE DUCT CONNECTION FEEDER FOUNDATION FLANGED END FIRE EXTINGUISHER CABINET FLARED END SECTION FIRE EXTINGUISHER FAR FACE, FACTORY FINISH, FLAT FACE FINISHED GRADE FIRE HYDRANT FIGURE FINISH FLUSH JOINT FLOW, FLOW LINE FLEXIBLE FLANGE FLUORESCENT FLOOR FLASHING, FLUSH FENCE FINISHED OPENING FLAT ON BOTTOM FACE OF CONCRETE, FACE OF CURB FACE OF FINISH FACE OF MASONRY FACE OF STUDS FLAT ON TOP FEMALE PIPE THREAD FRAME FIBERGLASS REINFORCED PLASTIC FIRE RETARDANT TREATED MATERIAL FLOOR SINK, FAR SIDE FRESH SUPPLY WATER FEET, FOOT FOOTING, FITTING FURRED, FURRING FURNITURE, FURNISH FUTURE FACE VELOCITY FIELD WELD, FIRE WALL FORWARD FURNISHED WITH EQUIPMENT FIXTURE  GRILLE, GROUND GAGE (METAL THICKNESS) GALLON GALVANIZED GRAB BAR, GRADE BREAK GROOVED COUPLING GUARD GENERAL GROUND FAULT CIRCUIT INTERRUPTER GROUND FACE MASONRY UNIT GUTTER GRADE GROOVED JOINT GLASS GLB GLASS BLOCK, GLULAM BEAM GROUND GUY POLE GRADE GRATING GYPSUM SHEATHING BOARD GREASE TRAP GRAVEL GUY WIRE GYPSUM WALLBOARD GYPSUM HARDBOARD  HIGH HOSE BIBB HARDBOARD HANDICAPPED, HOLLOW CORE, HORIZONTAL CURVE, HORIZONTAL CENTERLINE HEAD, HOT DIP HEADER HARDWARE HEXAGONAL HANGER HANDHOLE HIGH-INTENSITY DISCHARGE HOLLOW METAL HORIZONTAL HIGH POINT, HORSEPOWER HORIZONTAL POINT OF CURVATURE HIGH-PRESSURE SODIUM HORIZONTAL POINT OF TANGENCY HOSE REEL, HOUR HEADED STUD, HIGH STRENGTH HOLLOW STRUCTURAL SHAPE HEIGHT HEATING HIGH VOLTAGE HEATING, VENTILATING AND AIR CONDITIONING HARDWOOD HIGH WATER LEVEL HYDRAULIC HERTZ, CYCLES PER SECOND	HZ ID IE IF IH IMP IN INC INF INSTR INSUL INT INTR INV IPS IPT IR IRR ISO  JB JCT JF JST JT  K KB KCMIL KD KO KSI KW  L LAD LAM LATL LB LCTB LDG LDR LE LF LG LH LIN LIQ LLH LLV LMLU LNG LOC LP LPS LR LT LTD LTG LTL LTNG LV LVL LVR LW LWC LWL  MA MACH MAINT MAN MATL MAX MB MBR MC  MCB MCJ MDMJ MECH MED MFR MH MIN MIR MISC MJ ML MLO MMB MO MOD MON MPT MRGWB  MS MSL MT MU MULL MV MW	HERTZ, CYCLES PER SECOND INSIDE DIAMETER, INTERIOR DIMENSION INVERT ELEVATION, FOR EXAMPLE INSIDE FACE INTAKE HOOD IMPACT INCH INCLUDE, INCANDESCENT INFLEUNT INSTRUMENTATION INSULATION INTERIOR, INTERSECTION INTERMEDIATE, INTERIOR INVERT IRON PIPE SIZE INTERNAL PIPE THREAD INSIDE RADIUS, IRON ROD IRRIGATION ISOMETRIC  JUNCTION BOX JUNCTION JOINT FILLER JOIST JOINT  KIP KNEE BRACE THOUSAND CIRCULAR MILS KNOCK DOWN KNOCK OUT KIPS PER SQUARE INCH KILOWATT  ANGLE, LENGTH, LAVATORY, LINTEL LADDER LAMINATE LATERAL LAG BOLT, POUND LIQUID CHALK AND TACK BOARD LANDING LEADER LIFTING EYE LINEAR FOOT LONG LEFT HAND LINEAR LIQUID LONG LEG HORIZONTAL LONG LEG VERTICAL LIQUID MARKER LECTURE UNIT LONGITUDINAL LOCATION LOW POINT LOW-PRESSURE SODIUM LONG RADIUS LEFT LIMITED LIGHTING LINTEL LIGHTNING LOW VOLTAGE LAMINATED VENEER LUMBER LOUVER LIGHTWEIGHT LIGHTWEIGHT CONCRETE LOW WATER LEVEL  MIXED AIR MACHINED MAINTENANCE MANUAL MATERIAL MAXIMUM MACHINE BOLT MEMBER MECHANICAL CONTRACTOR, MECHANICAL COUPLING, MOMENT CONNECTION METAL CORNER BEAD MASONRY CONTROL JOINT MODIFIED DOUBLE MECHANICAL JOINT MECHANICAL MEDIUM MANUFACTURER MANHOLE, METAL HALIDE MINIMUM MIRROR MISCELLANEOUS MECHANICAL JOINT MASONRY LINTEL MAIN LUGS ONLY MEMBRANE MASONRY OPENING MODULAR, MODIFY MONUMENT MALE PIPE THREAD MOISTURE-RESISTANT GYPSUM WALLBOARD MOP SINK MEAN SEA LEVEL MOUNT MASONRY UNIT MULLION MEDIUM VOLTAGE MONITORING WELL	N NA NAT NC NEG NF NIC NO NOM NPS NPT NS NTS NWL  O TO O OA OC OCPD OD OED OF OFCI  OFOI OG OH OPNG OPP OPT OR ORD ORIG OVFL OVHG OXY OZ  P PA PAR PB PBD PC PCC PCF PCT PE PED PEN PERF PERM PERP PF PFMU PH PI PKG PL  PLAS PLAT PLBG PLF PNEU POL POS PP PRC PREF PREFAB PRELIM PREP PRES PRI PROP PROT PS PSF PSI PSIA PSIG PST PT PTN PVC PVC-RGS PVMT PWD PWJ PZ  Q QT QTR QTY QUAL  NORTH, NEUTRAL NOT APPLICABLE NATURAL, NATIONAL NORMALLY CLOSED NEGATIVE NEAR FACE, NON-FUSED NOT IN CONTRACT NORMALLY OPEN, NUMBER NOMINAL NOMINAL PIPE SIZE NATIONAL PIPE THREAD NEAR SIDE NOT TO SCALE NORMAL WATER LEVEL  OUT TO OUT OUTSIDE AIR, OVERALL ON CENTER OVER CURRENT PROTECTION DEVICE OUTSIDE DIAMETER OPEN END DUCT OUTSIDE FACE, OFFICE FURNISHING OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED ORIGINAL GROUND OVERHEAD OPENING OPPOSITE OPTIONAL OUTSIDE RADIUS OVERFLOW ROOF DRAIN ORIGINAL OVERFLOW OVERHANG OXYGEN OUNCE  PAINT PUBLIC ADDRESS PARALLEL, PARAPET PANIC BAR, PULL BOX PARTICLE BOARD POINT OF CURVE, PIECE, PRECAST 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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



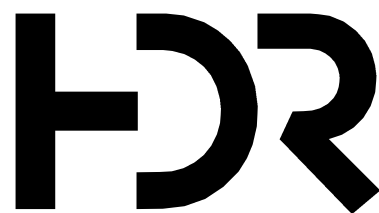
## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

## ABBREVIATIONS



FILENAME 103537686-00-G.rvt  
SCALE NONE

SHEET  
00G-002



ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT NUMBER 10357686

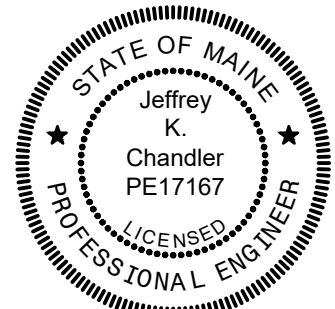


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ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

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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

### GENERAL LEGEND



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SCALE	NONE

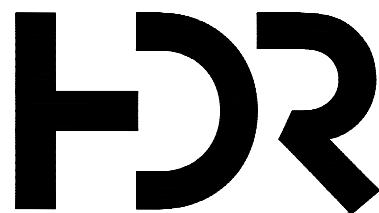
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**00G-003**

MATERIALS IN PLAN/SECTION		GENERAL SYMBOLOGY		IDENTIFICATION SYMBOLOGY		SHEET NAMING CONVENTION	
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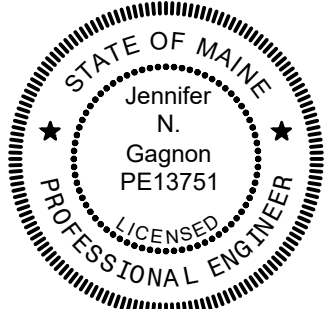
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SYMBOL</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>US HIGHWAY SYMBOL</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>STATE HIGHWAY SYMBOL</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>HAY BALE SILT CHECK</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>TEMPORARY SEDIMENT TRAP</div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div>	<div><div><div><div></div><div></div></div><div>CLEANOUT</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>CULVERT END SYMBOL (WITH CULVERT SHOWN BETWEEN SYMBOLS)</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FIRE HYDRANT</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FUEL OIL METER</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FUEL OIL MANHOLE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FUEL OIL VAULT</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>GREASE TRAP</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>GRIT CHAMBER</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>HEADWALL</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>INDUSTRIAL WASTE WATER METER</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>INDUSTRIAL WASTE WATER MANHOLE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>NATURAL GAS METER</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>NATURAL GAS RECEIVER</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>NATURAL GAS TRAP</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>NATURAL GAS LINE VAULT</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>MONITORING WELL</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>POST INDICATOR VALVE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>PUMP STATION</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>SANITARY MANHOLE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>SEPTIC TANK</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>TANK BELOW GROUND</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>TANK HORIZONTAL ABOVE GROUND</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>TANK VERTICAL ABOVE GROUND</div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div>	<div><div><div><div></div><div></div></div><div>STORM CATCH BASIN</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>STORM ROUND CATCH BASIN</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>STORM DRAINAGE MANHOLE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>WATER/AIR VENT</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>WATER BACKFLOW PREVENTER</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>WATER BLOWOFF</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>WATER METER</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>WATER SHUTOFF</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>WATER SOFTENER</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>WATER VALVE VAULT</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>VALVE</div></div></div></div></div></div></div></div></div></div></div></div></div>	<div><div><div><div></div><div></div></div><div>PIPELINE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>LARGE PIPELINE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>UTILITY BENEATH STRUCTURE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>RAILROAD</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>CENTERLINE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>BOTTOM OF DITCH</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>PROPERTY LINE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>EASEMENT</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>LIMITS OF CONSTRUCTION/DISTURBANCE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>ROW</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>EXISTING CONTOUR (MINOR)</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>EXISTING CONTOUR W/ELEVATION (MAJOR)</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>EXISTING FENCE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>EXISTING VEGETATION/BRUSH LINE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FENCE - BARB WIRE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FENCE - CHAIN LINK</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FENCE - FIELD</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FENCE - OTHER</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FENCE - WOOD</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FENCE - WOVEN WIRE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FLOOD LIMIT (25 YEAR)</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FLOOD LIMIT (50 YEAR)</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FLOOD LIMIT (100 YEAR)</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FLOOD LIMIT (200 YEAR)</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FLOOD LIMIT (500 YEAR)</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>HIGHWAY GUARDRAIL</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>LEVEE TOP</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>LEVEE TOE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>NEW CONTOUR (MINOR)</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>NEW CONTOUR (MAJOR)</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>ROCK BERM</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>SILT FENCE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>TOE OF SLOPE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>TOP OF SLOPE</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FIBER OPTIC</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>FUEL OIL</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>NATURAL GAS</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>INDUSTRIAL WASTE WATER</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>SANITARY SEWER</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>STORM SEWER</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>DOMESTIC WATER</div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>DOMESTIC WATER NON-POTABLE</div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div>	<div><div><div><div><div>GENERAL NOTES:</div><div>1. THIS IS A STANDARD CIVIL SYMBOLOGY SHEET. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.</div><div>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.</div><div>3. PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBANCE, SEE 01C-103 FOR NOTES SPECIFIC TO LIMIT OF DISTURBANCE, UTILITY COORDINATION, AND EROSION AND SEDIMENT CONTROL.</div><div>4. EXISTING CONDITIONS PLANIMETRICS AND DATA OBTAINED FROM OWEN HASKELL, INC. LAND SURVEYORS STANDARD TOPOGRAPHIC AND BOUNDARY SURVEY PREPARED FOR DIFW, DATED JANUARY 19, 2023, TITLED HATCHERY ROAD, GRAND LAKES STREAM, MAINE.</div><div>5. CONTRACTOR IS RESPONSIBLE FOR ALL SURVEY STAKING OPERATIONS.</div><div>6. 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.</div><div>7. CONTRACTOR SHALL MAINTAIN WORKING RED LINE DRAWINGS.</div></div></div><div><div><div>REFERENCE COORDINATE SYSTEM</div><div>PROJECTION - MAINE STATE PLANE</div><div>DATUM - NAD83</div><div>ZONE - EAST</div><div>UNITS - U.S. SURVEY FEET</div><div>VERTICAL DATUM IS REFERENCED TO NAVD 88.</div></div></div></div></div>	



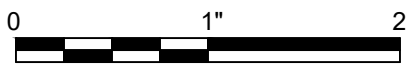
05/03/2024	ISSUED FOR BID	
ISSUE	DATE	DESCRIPTION

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 CIVIL LEGEND



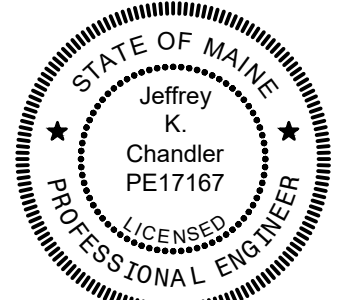
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SCALE	NONE

SHEET	00G-004
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05/03/2024 ISSUED FOR BID		
ISSUE	DATE	DESCRIPTION

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



## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

## MECHANICAL LEGEND



FILENAME 103537686-00-G.rvt  
SCALE NONE

SHEET  
00G-005

PIPING SYSTEMS		PIPING SYMBOLOGY		HVAC SYMBOLOGY		TEMPERATURE CONTROL DIAGRAM SYMBOLOGY		ABBREVIATIONS	
	COLD WATER, POTABLE (CW)		PIPE ANCHOR		SUPPLY AIR REGISTER		MISCELLANEOUS DEVICE IDENTIFIER	AD	ACCESS DOOR
	HOT WATER, POTABLE (HW)		PIPE GUIDE		EXHAUST AIR OR RETURN AIR GRILLE		COIL IDENTIFIERS	AFR	ABOVE FINISHED FLOOR
	HOT WATER RECIRCULATING, POTABLE (HWC)		EXPANSION JOINT		EXHAUST AIR OR RETURN AIR GRILLE		CONTROL DEVICE IDENTIFIER	AHU	AIR HANDLING UNIT
	NON POTABLE COLD WATER		PRESSURE/TEMPERATURE PORT		EXHAUST AIR OR RETURN AIR GRILLE		CONTROL INPUT/OUTPUT IDENTIFIER	APD	AIR PRESSURE DROP
	HOT WATER - TEMPERATURE, POTABLE		THERMOMETER		EXHAUST AIR DUCT UP (NO SECTION CUT)		DUCT MOUNTED SMOKE DETECTOR	ARF	ABOVE RAISED FLOOR
	TEPID WATER, POTABLE		THERMOWELL		EXHAUST AIR DUCT DOWN (NO SECTION CUT)		TEMPERATURE AVERAGING SENSOR	AV	ABOVE RAISED FLOOR
	TEPID WATER RETURN, POTABLE		PRESSURE GAUGE		ROUND ELBOW UP		MOTOR OPERATED DAMPER	BAS	BUILDING AUTOMATION SYSTEM
	SANITARY SEWER BELOW GRADE		TEMPERATURE GAUGE		ROUND ELBOW DOWN		HUMIDIFIER	BDD	BACK DRAFT DAMPER
	SANITARY SEWER ABOVE GRADE		FLEXIBLE PIPING CONNECTION		TRANSITION - RECTANGULAR TO ROUND DUCT		AIRFLOW MEASURING STATION	BHP	BRAKE HORSE POWER
	SANITARY VENT		WYE STRAINER		STANDARD BRANCH		MOTOR OPERATED SINGLE BLADE DAMPER	BOE	BOTTOM OF EQUIPMENT
	ACID WASTE		MANUAL AIR VENT		ELBOW - W/TURNING VANE (RECTANGULAR)		INTAKE/ EXHAUST LOUVER	BTUH	BRITISH THERMAL UNITS PER HOUR
	ACID VENT		AUTOMATIC AIR VENT		ELBOW - (RECTANGULAR), SMOOTH RADIUS		FILTER	CAV	CONSTANT AIR VOLUME
	COMBINATION WASTE AND VENT		METER (WATER, GAS, OTHER)		RECTANGULAR DUCT OR OPENING SIZE FIRST NUMBER INDICATES SIZE OF SIDE SHOWN		FREEZE STAT	CFH	CUBIC FEET PER HOUR
	PRESSURE DRAINAGE		FLOOR CLEANOUT		ROUND DUCT SIZE		FAN	CFM	CUBIC FEET PER MINUTE
	STORM DRAIN ABOVE GRADE		WALL CLEANOUT		RECTANGULAR DUCT INCLINE - RISE OR DROP IN RESPECT TO THE AIR FLOW		FAN WITH EC MOTOR	COP	COEFFICIENT OF PERFORMANCE
	STORM DRAIN BELOW GRADE		DOUBLE GRADE CLEANOUT		ROUND DUCT INCLINE - RISE OR DROP IN RESPECT TO THE AIR FLOW		PUMP	COR	CONTRACTING OFFICER'S REPRESENTATIVE
	STORM DRAIN OVERFLOW		WATER HAMMER ARRESTOR		HIDDEN DUCT		PUMP WITH EC MOTOR	CRAC	COMPUTER ROOM AIR CONDITIONER
	NATURAL GAS		ECCENTRIC REDUCER, FLAT ON TOP		DUCT/PIPE ELEVATION TAG ABOVE FINISH FLOOR			CU	CONDENSING UNIT
	LIQUEFIED PROPANE		ELBOW, 90° TURN DOWN		VOLUME DAMPER			DB	DRY BULB
	COMPRESSED AIR		ELBOW, 90° TURN UP					DDC	DIRECT DIGITAL CONTROL
	HEATING HOT WATER SUPPLY		TEE, OUTLET UP					DH	DEHUMIDIFIER
	HEATING HOT WATER RETURN		TEE, OUTLET DOWN					DX	DIRECT EXPANSION
	GLYCOL HEATING HOT WATER SUPPLY		TEE, OUTLET UP W/ 90° TURN					EAT	ENTERING AIR TEMPERATURE
	GLYCOL HEATING HOT WATER RETURN		TEE, OUTLET DOWN W/ 90° TURN					EDH	ELECTRIC DUCT HEATER
	GLYCOL CHILLED WATER RETURN		PIPE BREAK					EER	ENERGY EFFICIENCY RATIO
	CHILLED WATER SUPPLY		PIPE CAP					EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
	CHILLED WATER RETURN		BLIND FLANGE					ERU	ENERGY RECOVERY UNIT
	GLYCOL CHILLED WATER SUPPLY		UNION					ESP	EXTERNAL STATIC PRESSURE
	GLYCOL CHILLED WATER RETURN		FLOW ARROW					ESS	EMERGENCY SHUTOFF SWITCH
	CONDENSER WATER SUPPLY		SHUTOFF VALVE (NORMALLY OPEN)					EWT	ENTERING WATER TEMPERATURE
	CONDENSER WATER RETURN		SHUTOFF VALVE (NORMALLY CLOSED)					F	FUTURE
	REFRIGERANT LIQUID		DRAIN VALVE					FA	FREE AREA
	REFRIGERANT SUCTION		CHECK VALVE					FCP	FAN CONTROL PANEL
	CONDENSATE DRAIN		VACUUM BREAKER					FCU	FAN COIL UNIT
	CONDENSATE PUMP DISCHARGE		AUTOMATIC FLOW CONTROL VALVE					FDBK	FEEDBACK
	STEAM SUPPLY - PSI		CALIBRATED MANUAL BALANCING VALVE					FLA	FULL LOAD AMPS
	BOILER BLOW DOWN		PRESSURE-RELIEF VALVE					FLT	FILTER
	BOILER FEED		PRESSURE-REDUCING VALVE (PRV)					FPB	FAN POWERED BOX
	STEAM VENT		AUTOMATIC CONTROL VALVE, 2-WAY					FPM	FEET PER MINUTE
	WASTE DRAIN WATER		AUTOMATIC CONTROL VALVE, 3-WAY					GC	GENERAL CONTRACTOR
	REUSE SUPPLY WATER		BACKFLOW PREVENTER					GE	GRAVITY EXHAUST
	FRESH WATER SUPPLY		PLUMBING FIXTURE					GI	GRAVITY INTAKE
								GPH	GALLONS PER HOUR
								GPM	GALLONS PER MINUTE

GENERAL MECHANICAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL PIPING, DUCTWORK, COILS, EQUIPMENT, TERMINAL UNITS, ASSOCIATED CONTROLS, WIRING, AND OTHER ITEMS SHOWN BOLD AND/OR BOLD DASHED LINES UNLESS SPECIFICALLY NOTED OTHERWISE. THE ITEMS INDICATED ON THE DRAWINGS TO BE REMOVED ARE ONLY TO INDICATE IN GENERAL THE AMOUNT OF DEMOLITION WORK INVOLVED. A SITE INVESTIGATION BY THE CONTRACTOR MUST BE PERFORMED TO AID IN DETERMINING THE COMPLETE EXTENT OF WORK INVOLVED.

2. PIPING AND DUCTWORK EMBEDDED IN FLOORS, WALLS, AND CEILINGS MAY REMAIN IF SUCH MATERIALS DO NOT INTERFERE WITH NEW INSTALLATIONS. REMOVE MATERIALS ABOVE ACCESSIBLE CEILINGS. REMAINING PIPING SHALL BE DRAINED AND CAPPED WITHOUT CREATING DEAD LEGS IN THE SYSTEM. REMAINING DUCTWORK SHALL BE CAPPED.

3. LOCATE, IDENTIFY, AND PROTECT MECHANICAL SERVICES PASSING THROUGH DEMOLITION AREA AND SERVING OTHER AREAS OUTSIDE THE DEMOLITION LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE DEMOLITION LIMITS. WHEN SERVICES MUST BE INTERRUPTED, NOTIFY OWNER AND INSTALL TEMPORARY SERVICES FOR AFFECTED AREAS.

4. EXISTING EQUIPMENT BEING REMOVED AND CONSIDERED SALVAGEABLE BY THE OWNER SHALL BE TURNED OVER TO THE OWNER.

5. CONTRACTORS SHALL COORDINATE AND SCHEDULE ALL NECESSARY UTILITY SHUT-OFFS WITH OWNER PRIOR TO PROCEEDING WITH SUCH WORK.

6. COORDINATE SAW-CUTTING OF THE FLOOR OR WALL WITH OTHER TRADES.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, PAINTING, REPAIRING OR REPLACEMENT OF ALL WALLS, FLOORS, CEILINGS, OR OTHER BUILDING ELEMENTS THAT ARE DISTURBED AS PART OF THE DEMOLITION OR INSTALLATION OF MECHANICAL WORK. SUCH WORK SHALL MATCH THE EXISTING CONSTRUCTION, FINISH, AND RATING. FIRE SEAL WALL OPENINGS AS REQUIRED.

8. REPLACE/REPAIR DAMAGED PIPING AND/OR DUCTWORK INSULATION TO MATCH EXISTING.

9. CONTRACTOR SHALL PROVIDE WORK IN PHASES AS REQUIRED BY THE CONTRACT DOCUMENTS WHILE MINIMIZING POTENTIAL WORK DELAYS AND UTILITY SHUT-DOWNS. COORDINATE ALL WORK WITH PROJECT PHASING PLAN AND WORK SHOWN ON DEMOLITION AND NEW PLANS. ALL EXISTING AREAS OF THE BUILDING NOT A PART OF A CURRENT PHASE OF WORK SHALL REMAIN OPERATIONAL WHILE WORK IN EACH INDIVIDUAL PHASE IS COMPLETED.

GENERAL MECHANICAL 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) SYMBOLOGY AND ABBREVIATIONS SHEET. LISTING OF SYMBOLS AND ABBREVIATIONS DOES NOT IMPLY ALL SYMBOLS AND ABBREVIATIONS HAVE BEEN USED ON THIS PROJECT.

3. VALVE SYMBOLS SHOWN HERE ARE APPLICABLE ONLY TO MECHANICAL SHEETS.

4. PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS AS SPECIFIED, OR AS REQUIRED BY CODE.

5. MECHANICAL INSTALLATION SHALL COMPLY WITH THE ADA/ABA ACCESSIBILITY GUIDELINES.

6. DETAILS APPLY TO THE ENTIRE PROJECT AND ARE ONLY REFERENCED TO PROVIDE CLARITY IF THERE ARE MULTIPLE DETAILS THAT COULD APPLY TO A PARTICULAR PROJECT CONDITION.

7. COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING WITH OTHER TRADES BEFORE PROCEEDING WITH WORK. DO NOT INSTALL MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING ABOVE ELECTRICAL EQUIPMENT WHERE PROHIBITED BY ELECTRICAL CODES (SWITCHBOARDS, PANELS, ETC.).

8. LIGHT LINE WEIGHT INDICATES EXISTING PIPING, DUCTWORK, AND/OR EQUIPMENT TO REMAIN. BOLD LINE WEIGHT INDICATES NEW WORK TO BE INSTALLED AS WORK OF THIS CONTRACT.

9. COORDINATE INSTALLATION OF OUTSIDE AIR INTAKE WITH INSTALLATION OF PLUMBING VENTS, FLUES AND EXHAUST/RELIEF OUTLETS TO MAINTAIN 10' SEPARATION.

10. ALL WORK IN FINISHED SPACES SHALL BE LOCATED ABOVE CEILINGS, IN CHASES OR OTHER CONCEALED ACCESSIBLE LOCATIONS UNLESS NOTED OTHERWISE. LOCATE AND ARRANGE VALVES, DRAIN FITTINGS, ETC. TO BE ACCESSIBLE THROUGH LAY-IN CEILINGS, ACCESS PANELS OR ACCESS DOORS. PROVIDE AN ACCESS PANEL OR DOOR FOR ALL NON-ACCESSIBLE INSTALLATIONS. COORDINATE LOCATION OF ACCESS PANELS OR DOORS WITH THE ARCHITECT/ENGINEER AND OTHER TRADES.

11. ALL MATERIALS LOCATED IN PLENUM SHALL BE RATED FOR PLENUM INSTALLATION.

12. ALL DUCTWORK, PIPING, AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH ALL TRADES. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS OR AS SHOWN ON THE MECHANICAL OR STRUCTURAL DRAWINGS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED.

13. ALL MISCELLANEOUS METALS AND MATERIALS REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE PROVIDED BY THE INSTALLING CONTRACTOR.

14. PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS OF DISSIMILAR METALS (SUCH AS COPPER TO GALVANIZED STEEL).

15. PROVIDE ISOLATION VALVES AT EACH PIECE OF EQUIPMENT. ALSO PROVIDE ISOLATION VALVES ON EACH BRANCH AND/OR RISER SERVING MULTIPLE PIECES OF EQUIPMENT OR FIXTURES AND ELSEWHERE AS INDICATED. INSTALL VALVES AS CLOSE TO MAIN AS POSSIBLE.

GENERAL HVAC 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.

3. COORDINATE ALL GRILLE, REGISTER AND DIFFUSER LOCATIONS WITH REFLECTED CEILING PLAN, LIGHTING, AND ALL OTHER CEILING MOUNTED DEVICES.

4. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK AND PIPING SYSTEMS CONNECTED TO FANS, PUMPS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION.

5. PROVIDE ACCESSIBLE VOLUME DAMPERS OR OTHER MEANS OF AIRFLOW ADJUSTMENT AT ALL DUCT RUN-OUTS TO DIFFUSERS AND GRILLES.

6. PROVIDE DUCT ACCESS DOORS AT OUTSIDE AIR INTAKE PLENUMS.

7. ALL DUCT RUN-OUTS TO DIFFUSERS AND GRILLES SHALL BE THE SAME AS THE DIFFUSER OR GRILLE NECK SIZE UNLESS NOTED OTHERWISE.

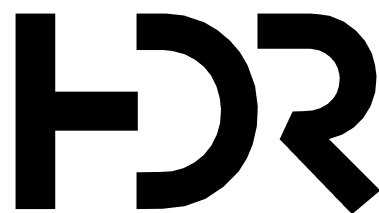
8. ALL PIPING RUNOUTS SHALL BE 3/4" UNLESS NOTED OTHERWISE.

D

C

B

A

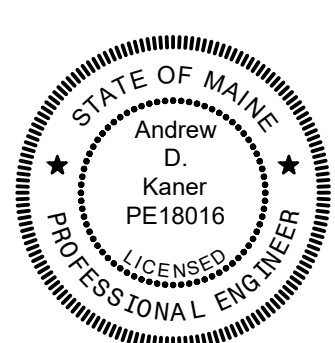


05/03/2024 ISSUED FOR BID

ISSUE DATE DESCRIPTION

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

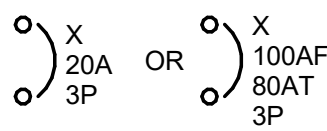
## ELECTRICAL LEGEND 1



FILENAME 103537686-00-G.rvt  
SCALE NONE

SHEET  
00G-006

## ONE-LINE, POWER, AND LIGHTING SYMBOLOGY



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

### TYPES:

MCCB - MOLDED CASE  
ICCB - INSULATED CASE  
LVP - LOW VOLTAGE POWER  
MCP - MOTOR CIRCUIT PROTECTOR (RATING PER CONNECTED LOAD)

### TRIP UNIT:

L - LONG TIME PICKUP  
S - SHORT TIME PICKUP  
I - INSTANTANEOUS PICKUP  
G - GROUND FAULT PICKUP  
A - ARC ENERGY REDUCTION MODE



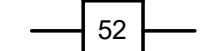
INTERLOCK: X - INDICATES TYPE

### TYPES:

E - ELECTRICAL  
M - MECHANICAL  
K - KEY



GROUND FAULT PROTECTION



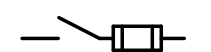
MEDIUM VOLTAGE CIRCUIT BREAKER



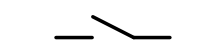
FUSE, RATING, AND NUMBER OF FUSES AS NOTED



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



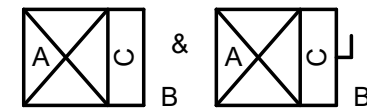
FUSIBLE SWITCH, CURRENT RATING, FUSE RATING, AND QUANTITY AS NOTED (3 POLE UON)



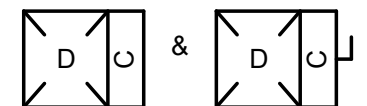
NON-FUSED SWITCH, CURRENT RATING, AND NUMBER OF POLES AS NOTED (3 POLE UON)



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)  
FVR - FULL VOLTAGE REVERSING  
2S - TWO SPEED  
RVAT - REDUCED VOLTAGE AUTO TRANSFORMER

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.



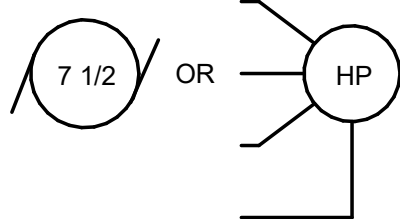
NON-FUSED SAFETY SWITCH, 30A, 3P. X INDICATES AMP RATING GREATER THAN 30A



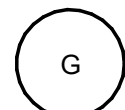
FUSED SAFETY SWITCH, 3P, X INDICATES AMP RATING GREATER THAN 30A, Y INDICATES FUSE SIZE



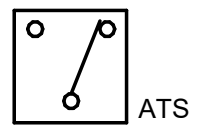
SEPARATELY MOUNTED CIRCUIT BREAKER; SEE ELECTRICAL ONE - LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION



MOTOR WITH DESIGN HORSEPOWER (WHEN INDICATED)

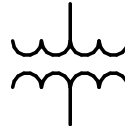


GENERATOR



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

ATS - AUTOMATIC  
MTS - MANUAL

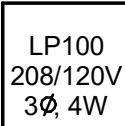


TRANSFORMER

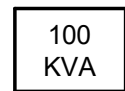
Δ 3-PHASE, 3-WIRE DELTA CONNECTION



3-PHASE, 4-WIRE GROUNDED WYE CONNECTION



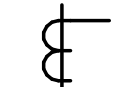
SWITCHBOARD OR PANELBOARD; NAME, VOLTAGE, PHASE, NUMBER OF WIRES WHEN INDICATED



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



VOLTAGE TRANSFORMER (VT, PT, OR CPT)



CURRENT TRANSFORMER (CT)



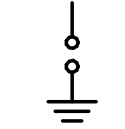
UTILITY WATT-HOUR METER PER UTILITY REQUIREMENTS



DIGITAL METERING PACKAGE



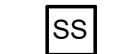
GROUND



LIGHTNING ARRESTER



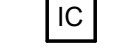
LOW VOLTAGE SURGE PROTECTIVE DEVICE



SELECTOR SWITCH



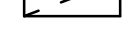
PUSHBUTTON



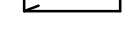
INSTRUMENTATION / CONTROL DEVICE



SOLENOID VALVE



CONTROL PANEL INTEGRAL OR PROVIDED WITH ASSOCIATED EQUIPMENT



CONTROL PANEL WITH DISCONNECT SWITCH INTEGRAL OR PROVIDED WITH ASSOCIATED EQUIPMENT



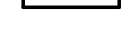
JUNCTION OR PULL BOX



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  
CP - CONTROL PANEL  
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



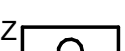
POLE/STANCHION MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED



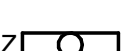
POLE/STANCHION MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)



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 - MOMENTARY CONTACT  
T - TIMER

Y - INDICATES CONTROLLING SWITCH (IF REQUIRED)



MANUAL MOTOR STARTER

### SUBSCRIPTS:

X - INDICATES TYPE

HP - HORSEPOWER RATED  
TE - HORSEPOWER RATED WITH THERMAL ELEMENT  
FT - HORSEPOWER RATED WITH FUSETRON FUSE

Y - INDICATES SWITCH TYPE

NONE - TOGGLE SWITCH TYPE  
R - ROTARY SWITCH TYPE



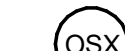
PHOTOCELL



TIME CLOCK



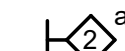
LIGHTING CONTROL OCCUPANCY SENSOR, WALL MOUNTED, X INDICATES SPECIFIC TYPE AS SPECIFIED



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



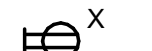
PLUG-IN RECEPTACLE STRIP, QUANTITY AND SPACING OF RECEPTACLES AS NOTED OR SPECIFIED



SPECIAL-PURPOSE RECEPTACLE AS DEFINED ON PLANS



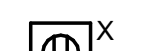
TWO RECEPTACLES IN 2-GANG BOX UNDER COMMON COVER PLATE



DUPLEX RECEPTACLE



SIMPLEX RECEPTACLE

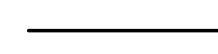


RECESSED FLOOR MOUNTED BOX, QUANTITY AND TYPE OF RECEPTACLES AS INDICATED

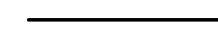
### SUBSCRIPTS:

X - INDICATES TYPE

GFCI - GROUND FAULT CIRCUIT INTERRUPTER  
IG - ISOLATED GROUND  
TR - TAMPER RESISTANT  
PLH - 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



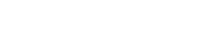
HOMERUN TO SOURCE (E.G. PANELBOARD, MCC) NUMBER IN PARENTHESES REPRESENTS CONDUCTOR SIZE OTHER THAN #12 SINGLE PHASE: 2#12, 1#12G IN 3/4" C THREE PHASE: 3#12, 1#12G IN 3/4" C UNLESS OTHERWISE NOTED, CONDUCTOR SIZE IS FOR ENTIRE CIRCUIT, SOURCE TO LAST DEVICE. ALSO, SEE ONE LINE DIAGRAM FOR CIRCUIT REQUIREMENTS



CONDUIT CONNECTION TO EQUIPMENT



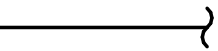
CIRCUIT RUN BETWEEN DEVICES EXPOSED IN NON-ARCHITECTURALLY FINISHED AREAS; CONCEALED IN ARCHITECTURALLY FINISHED AREAS. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.



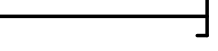
CONDUIT RUN BETWEEN DEVICES CONCEALED IN NON-ARCHITECTURALLY FINISHED AREAS OR UNDER FLOOR SLAB. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.



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

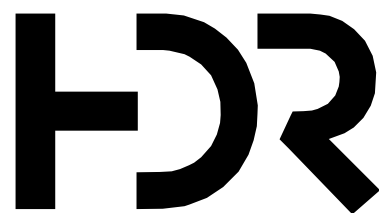
### GENERAL NOTES:

- THIS IS A STANDARD ELECTRICAL SYMBOLOGY SHEET. NOT ALL SYMBOLS MAY BE 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.
- SEE P&ID LEGEND SHEET FOR PROJECT SPECIFIC EQUIPMENT SYMBOLS, EQUIPMENT ABBREVIATIONS, AND PIPING SYSTEM ABBREVIATIONS.



**A**

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5/16/2024 3:24:23 PM

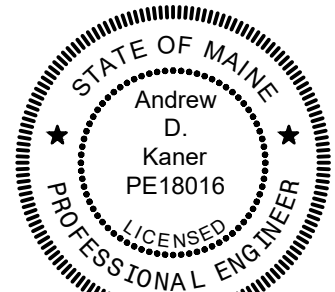


05/03/2024 ISSUED FOR BID

ISSUE DATE DESCRIPTION

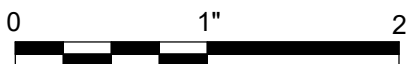
PROJECT MANAGER ANDREW GURSKI

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






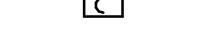



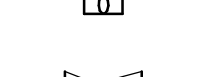




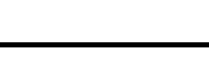
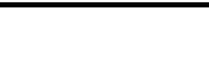











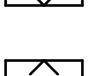
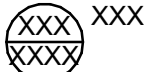
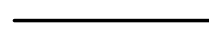










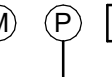


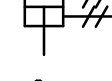

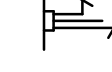










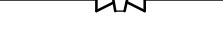









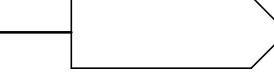

IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

INSTRUMENTATION LEGEND



FILENAME | 103537686-00-G.rvt  
SCALE | NONE

SHEET  
00G-008

PRIMARY ELEMENT SYMBOLOGY		INSTRUMENT SYMBOLOGY		INSTRUMENT IDENTIFICATION LETTERS						CONTROL SWITCH NOTATION ABBREVIATIONS		MISCELLANEOUS SYMBOLOGY																																																																																																																																																																								
<div><div>ORIFICE PLATE</div><div>PITOT TUBE OR ANNUBAR</div><div>ROTOMETER</div><div>SONIC OR ULTRASONIC FLOWMETER</div><div>MAGNETIC FLOWMETER</div><div>MASS DISPERSION FLOWMETER</div><div>FLUME</div><div>WEIR</div><div>PROPELLER OR TURBINE METER</div><div>VENTURI TUBE</div><div>VENTURI FLUME</div><div>FLOAT SWITCH</div><div>TEMPERATURE ELEMENT WITH THERMOWELL</div><div>SIGHT FLOW GLASS</div></div>		<div><div>LOCALLY MOUNTED FIELD INSTRUMENTATION</div><div>MOUNTED ON PANEL FRONT</div><div>MOUNTED INSIDE PANEL</div><div>FRONT PANEL MOUNTED ON AUXILIARY PANEL (SUBSCRIPT INDICATES PANEL)</div><div>MOUNTED INSIDE AUXILIARY PANEL</div><div>PILOT LIGHT</div><div>INSTRUMENT FUNCTIONS SHARING COMMON HOUSING</div><div>COMPLEX INTERLOCK AS DEFINED IN CONTROL DIAGRAM OR IN SPECIFICATIONS</div><div>SHARED DISPLAY, SHARED CONTROL, FIELD MOUNTED</div><div>SHARED DISPLAY, SHARED CONTROL, PRIMARY LOCATION - NORMALLY ACCESSIBLE TO OPERATOR</div><div>PROGRAMMABLE LOGIC CONTROL, PRIMARY LOCATION - NORMALLY ACCESSIBLE TO OPERATOR</div><div>PROGRAMMABLE LOGIC CONTROL, FIELD MOUNTED</div></div>		<table><tr><th></th><th colspan="2">FIRST LETTER</th><th colspan="3">SUCCEEDING LETTERS</th></tr><tr><th></th><th>MEASURED OR INITIATING VARIABLE</th><th>VARIABLE MODIFIER</th><th>READOUT OR PASSIVE FUNCTION</th><th>OUTPUT/ACTIVE FUNCTION</th><th>FUNCTION MODIFIER</th></tr><tr><td>A</td><td>ANALYSIS</td><td></td><td>ALARM</td><td></td><td></td></tr><tr><td>B</td><td>BURNER, COMBUSTION</td><td></td><td>USER'S CHOICE</td><td>USER'S CHOICE</td><td>USER'S CHOICE</td></tr><tr><td>C</td><td>USERS CHOICE</td><td></td><td></td><td>CONTROL</td><td>CLOSED</td></tr><tr><td>D</td><td>USERS CHOICE</td><td>DIFFERENTIAL</td><td></td><td></td><td>DEVIATION</td></tr><tr><td>E</td><td>VOLTAGE</td><td></td><td>SENSOR (PRIMARY ELEMENT)</td><td></td><td></td></tr><tr><td>F</td><td>FLOW RATE</td><td>RATIO (FRACTION)</td><td></td><td></td><td></td></tr><tr><td>G</td><td>USER'S CHOICE</td><td></td><td>GLASS, GAUGE VIEWING DEVICE</td><td></td><td></td></tr><tr><td>H</td><td>HAND</td><td></td><td></td><td></td><td>HIGH</td></tr><tr><td>I</td><td>CURRENT (ELECTRICAL)</td><td></td><td>INDICATE</td><td></td><td></td></tr><tr><td>J</td><td>POWER</td><td>SCAN</td><td>SCAN</td><td></td><td></td></tr><tr><td>K</td><td>TIME, TIME SCHEDULE</td><td>TIME; RATE OF CHANGE</td><td></td><td>CONTROL STATION</td><td></td></tr><tr><td>L</td><td>LEVEL</td><td></td><td>LIGHT</td><td></td><td>LOW</td></tr><tr><td>M</td><td>USER'S CHOICE</td><td></td><td></td><td></td><td>MIDDLE, INTERMEDIATE</td></tr><tr><td>N</td><td>USER'S CHOICE</td><td></td><td>USER'S CHOICE</td><td>USER'S CHOICE</td><td>USER'S CHOICE</td></tr><tr><td>O</td><td>USER'S CHOICE</td><td></td><td>ORIFICE, RESTRICTION</td><td></td><td></td></tr><tr><td>P</td><td>PRESSURE, VACUUM</td><td></td><td>POINT (TEST) CONNECTION</td><td></td><td></td></tr><tr><td>Q</td><td>QUANTITY</td><td>INTEGRATE, TOTALIZE</td><td>INTEGRATE, TOTALIZE</td><td></td><td></td></tr><tr><td>R</td><td>RADIATION</td><td></td><td>RECORD</td><td></td><td>RUN</td></tr><tr><td>S</td><td>SPEED, FREQUENCY</td><td>SAFETY</td><td></td><td>SWITCH</td><td>STOP</td></tr><tr><td>T</td><td>TEMPERATURE</td><td></td><td></td><td>TRANSMIT</td><td></td></tr><tr><td>U</td><td>MULTIVARIABLE</td><td></td><td>MULTIFUNCTION</td><td>MULTIFUNCTION</td><td>MULTIFUNCTION</td></tr><tr><td>V</td><td>VIBRATION, MECH. 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GENERAL NOTES:

1.

THIS IS A STANDARD INSTRUMENTATION SYMBOLOGY AND ABBREVIATIONS SHEET. LISTING OF SYMBOLS AND ABBREVIATIONS DOES NOT IMPLY ALL SYMBOLS AND ABBREVIATIONS HAVE BEEN USED ON THIS PROJECT.

2.

SEE PROCESS, MECHANICAL AND PLUMBING LEGEND SHEET FOR MISCELLANEOUS PIPING SYMBOLS.

3.

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.

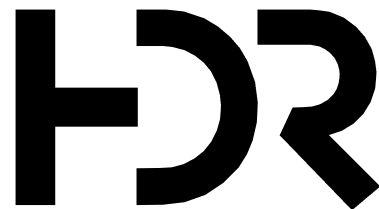
4.

VALVE SYMBOLS SHOWN HERE ARE APPLICABLE ONLY TO INSTRUMENTATION DIAGRAMS. SEE PROCESS, MECHANICAL AND PLUMBING LEGEND SHEET FOR VALVE SYMBOLS USED ELSEWHERE ON THE SHEETS.

GENERAL NOTES:

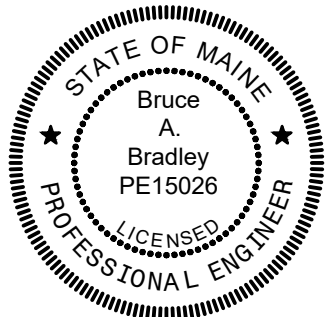
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05/03/2024	ISSUED FOR BID	
ISSUE	DATE	DESCRIPTION

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



FILENAME	
SCALE	As indicated

SHEET
00G-009

LIFE SAFETY LEGEND

Area Name

Business

15,000 SF

Load Factor: 150

Calc Occ: 100

NAME OF AREA/SPACE

FUNCTION OF SPACE (IBC TABLE 1004.5)

SQUARE FOOTAGE OF AREA/SPACE

LOAD FACTOR (IBC TABLE 1004.1.2)

CALCULATED OCCUPANT LOAD PER AREA/SPACE (IBC 1004)

DOOR

Clear Width: 33"

Max Occ: 165

Req Width: 28"

Calc Occ: 140

EGRESS COMPONENT - OCCUPANT LOAD AND WIDTH (IN INCHES)

ACTUAL CLEAR WIDTH PROVIDED

MAXIMUM ALLOWED OCCUPANT LOAD PER EXIT (IBC 1005.3)

REQUIRED MINIMUM WIDTH PER OCCUPANCY (IBC 1005.3)

CALCULATED OCCUPANT LOAD PER EXIT (IBC 1004)

STAIR

Clear Width: 44"

Max Occ: 146

Req Width: 28"

Calc Occ: 93

EGRESS STAIR - OCCUPANT LOAD AND WIDTH (IN INCHES)

ACTUAL CLEAR WIDTH PROVIDED

MAXIMUM ALLOWED OCCUPANT LOAD PER STAIR (IBC 1005.3)

REQUIRED MINIMUM WIDTH PER OCCUPANCY (IBC 1005.3)

CALCULATED OCCUPANT LOAD PER STAIR (IBC 1004)

185'-6"

TRAVEL DISTANCE

185'-6"

TRAVEL DISTANCE: LONGEST ROUTE TO AN EXIT (MAXIMUM PER SPACE/AREA SHOWN) (IBC 1017.2)

55'-6"

COMMON PATH

55'-6"

COMMON PATH: DISTANCE TRAVELED BEFORE AN EXIT PATH IS CHOSEN (MAXIMUM PER SPACE/ AREA SHOWN) (IBC 1006.2)

45

DOOR FIRE RATING

ILLUMINATED EXIT SIGN

FEC

FIRE EXTINGUISHER & CABINET RECESSED (SCREENED IF EXISTING)

MAX TRAVEL DISTANCE: 75' - (IBC TABLE 906.3(1))

FEC

FIRE EXTINGUISHER & CABINET SURFACE MOUNTED (SCREENED IF EXISTING)

MAX TRAVEL DISTANCE: 75' - (IBC TABLE 906.3(1))

FE

FIRE EXTINGUISHER SURFACE MOUNTED (SCREENED IF EXISTING)

MAX TRAVEL DISTANCE: 75' - (IBC TABLE 906.3(1))

FHC

FIRE HOSE CABINET RECESSED (SCREENED IF EXISTING)

FIRE DEPARTMENT CONNECTION

STAND PIPE

SUITE

NOT IN CONTRACT

CONTROL AREA BOUNDARY

PARTITION RATING GRAPHICS

PARTITIONS REQUIRED TO BE SMOKE RESISTANT, FIRE RESISTANT, OR BOTH FIRE AND SMOKE RESISTANT ARE SHOWN GRAPHICALLY ON PLANS WITH HATCH PATTERNS.

PARTITION RATING GRAPHIC DESIGNATION

PRIORITY

4 HR FIRE RATING

1 HIGHEST

3 HR FIRE RATING

2

2 HR FIRE RATING & SMOKE BARRIER

3

2 HR FIRE RATING

3

1 HR FIRE RATING & SMOKE BARRIER

4

1 HR FIRE RATING

4

SMOKE PARTITION (NON-RATED)

5 LOWEST

NON-RATED PARTITION

5 LOWEST

BUILDING INFORMATION

1.

ADDRESS: Grand Lake Stream Fish Hatchery...
2.

ZONING DISTRICT:
3.

OCCUPANCY: Group U: Utility Rearing Tanks
4.

CONSTRUCTION TYPE: Type 2B - NonCombustable (Table 601)
5.

SPRINKLERED: N/A
6.

BUILDING HEIGHT: Actual Building Height (# of Stories) 25'-10"  
Allowable Building Height (# of Stories) 55'-0" (2)
7.

BUILDING AREAS: Total Building Area 3,940 SF  
Allowable Building Area (Parcel) 8,500 SF

APPLICABLE BUILDING CODES

THIS PROJECT HAS BEEN DESIGNED UNDER THE REQUIREMENTS OF THE APPLICABLE CODES BELOW

1.

2015 International Building Code (IBC)
2.

2015 International Energy Conservation Code (IECC)
3.

2015 International Mechanical Code (IMC)

APPLICABLE EGRESS REQUIREMENTS

BASED ON: Type 2B - NonCombustable (Table 601) - Group U: - N/A

1.

MAXIMUM ALLOWABLE TRAVEL DISTANCE: 300 FEET  
Per IBC Table 1017.1  
Actual:
2.

COMMON PATH OF EGRESS TRAVEL: 100 FEET  
Per IBC Table 1006.2.1  
Actual:
3.

MINIMUM NUMBER OF EXITS: 2  
Per IBC Table 1006.3.1
4.

OCCUPANT LOAD 3,940 SF / 300SF PER PERSON = 14 OCCUPANTS

BUILDING OCCUPANT LOAD

Name of Area/Space	Use Designation	Function of Space	Occupant Load Factor	Occupant Load
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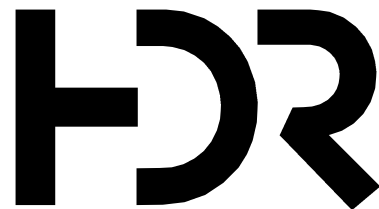
GENERAL LIFE SAFETY NOTES

1.

THIS BUILDING IS AN OPEN AIR PAVILION AND IS NOT HEATED OR COOLED, AND THUS MEETS EXCEMPTION C402.2 IN 2015 IECC FOR NOT HAVING TO MEET THERMAL REQUIRMENTS OF THE ENERGY CODE.
2.
3.



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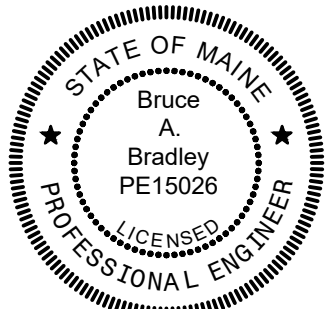


05/03/2024 ISSUED FOR BID

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

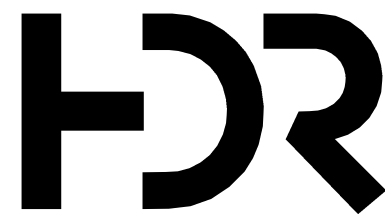
GENERAL STRUCTURAL NOTES



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SCALE

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00S-100

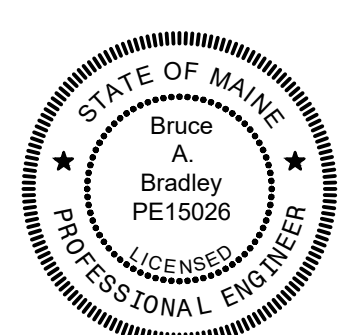
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PROJECT MANAGER ANDREW GURSKI

CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
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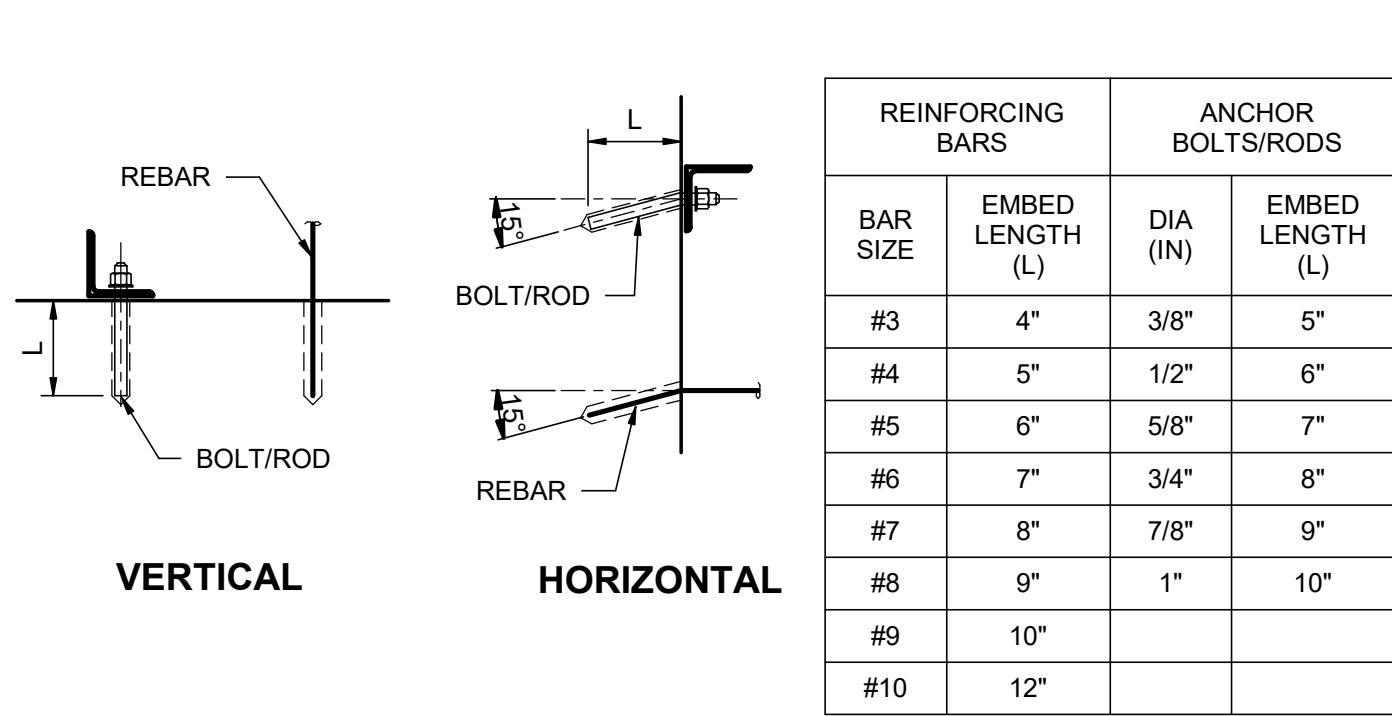
## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

## GENERAL STRUCTURAL DETAILS 1



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SCALE As indicated

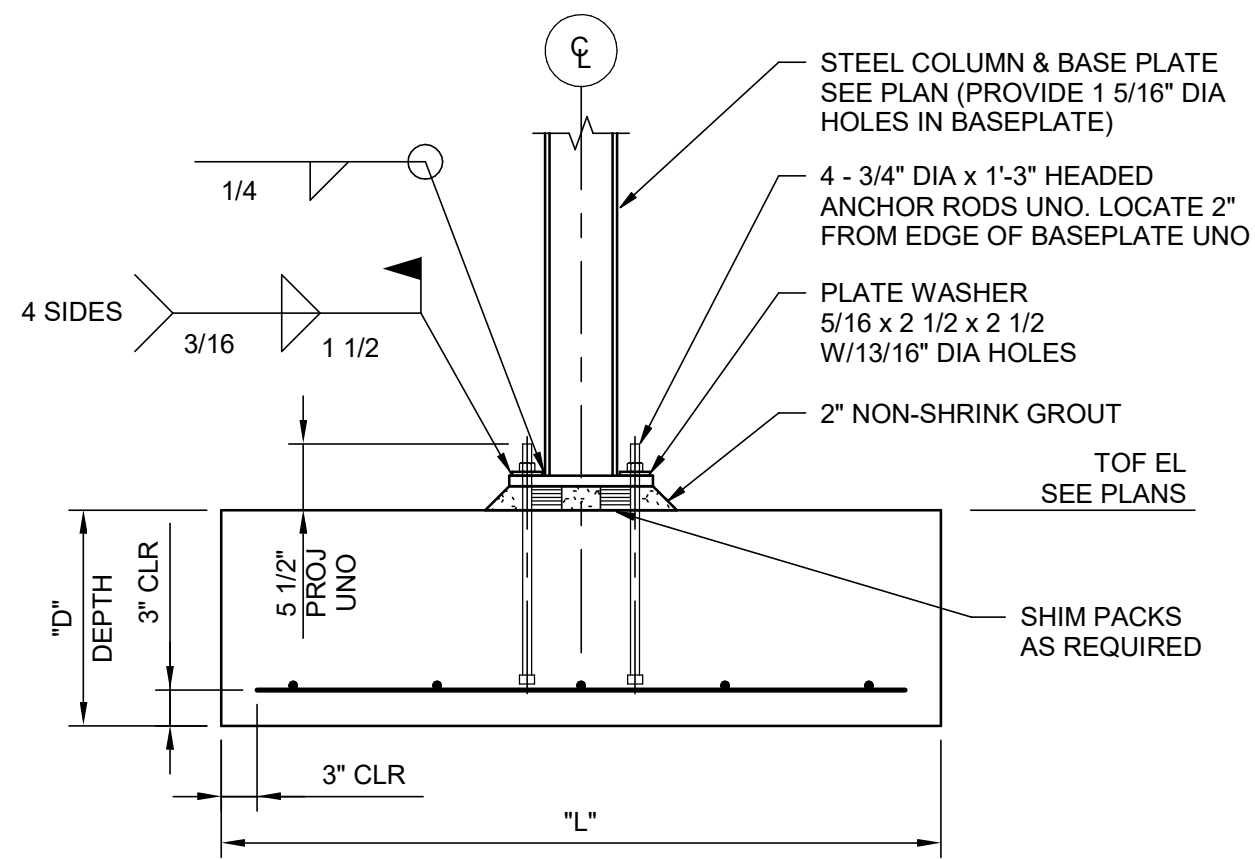
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00S-101



### NOTES:

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

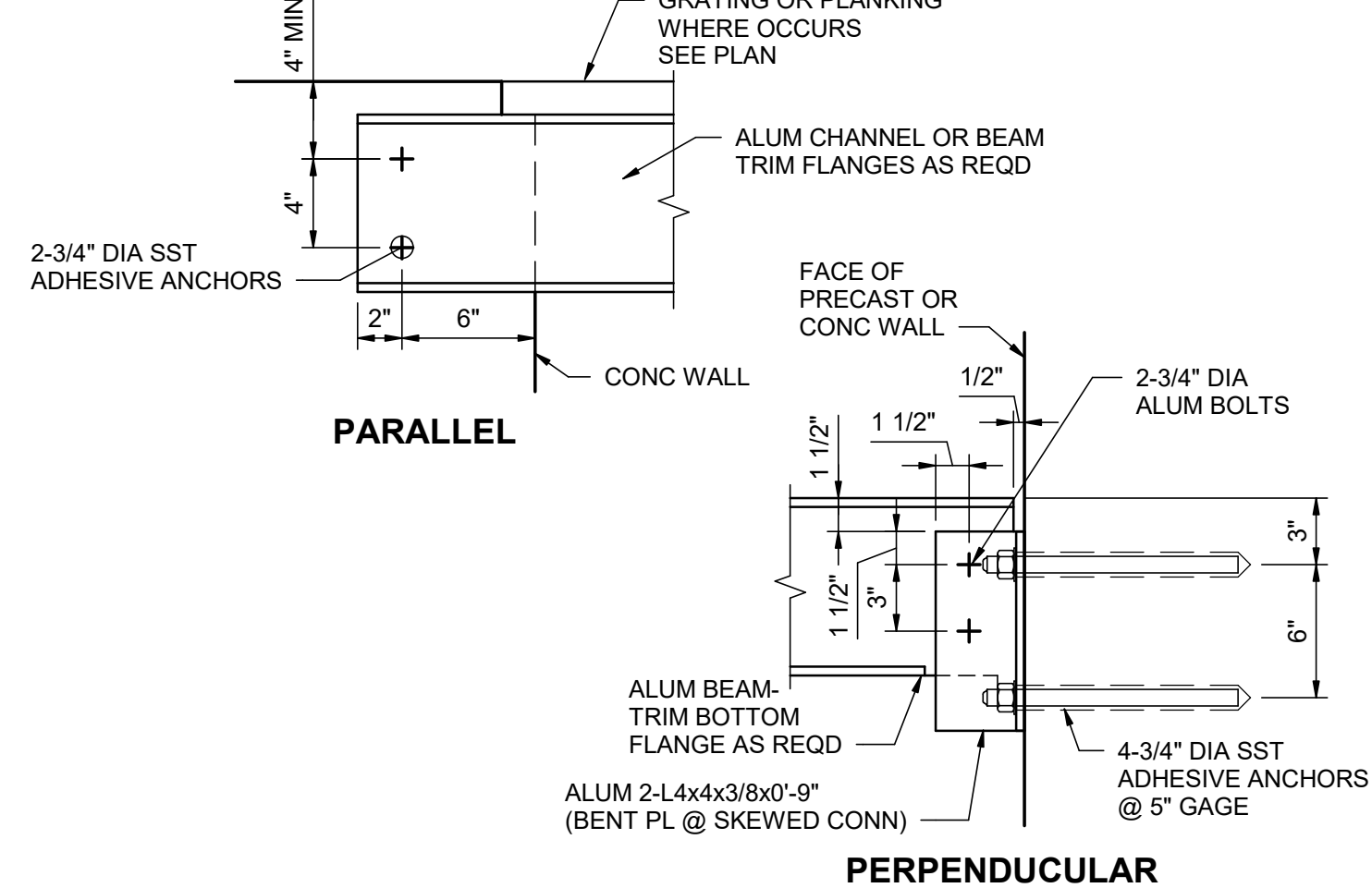
## 1 ADHESIVE ANCHOR DETAIL AND SCHEDULE - NOT TO SCALE



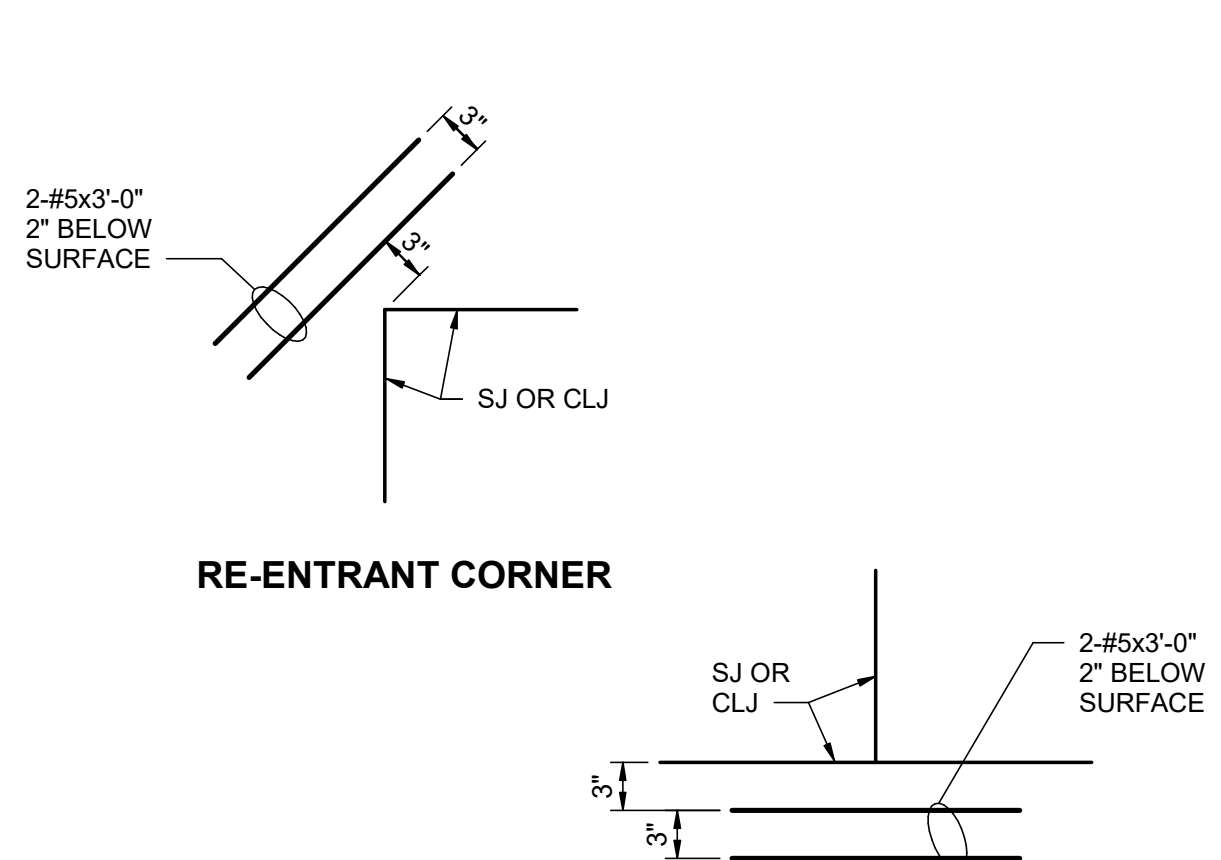
### NOTE:

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

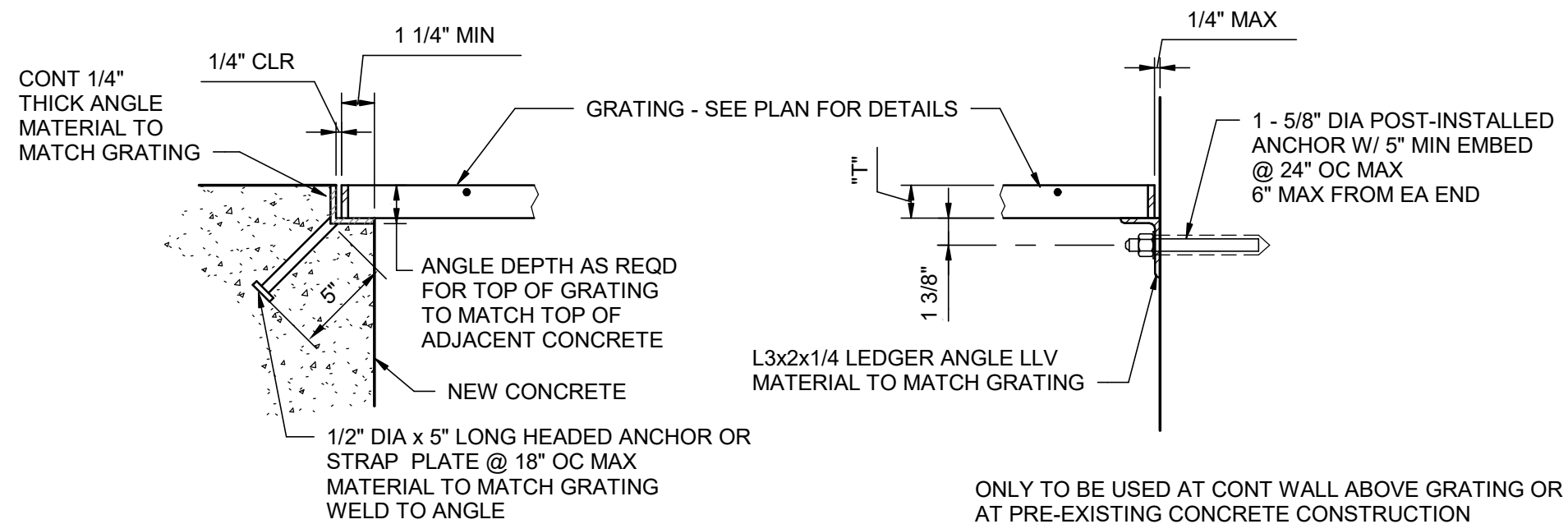
## 2 SPREAD FOOTING - NOT TO SCALE



## 3 ALUMINUM BEAM TO WALL CONNECTION - NOT TO SCALE



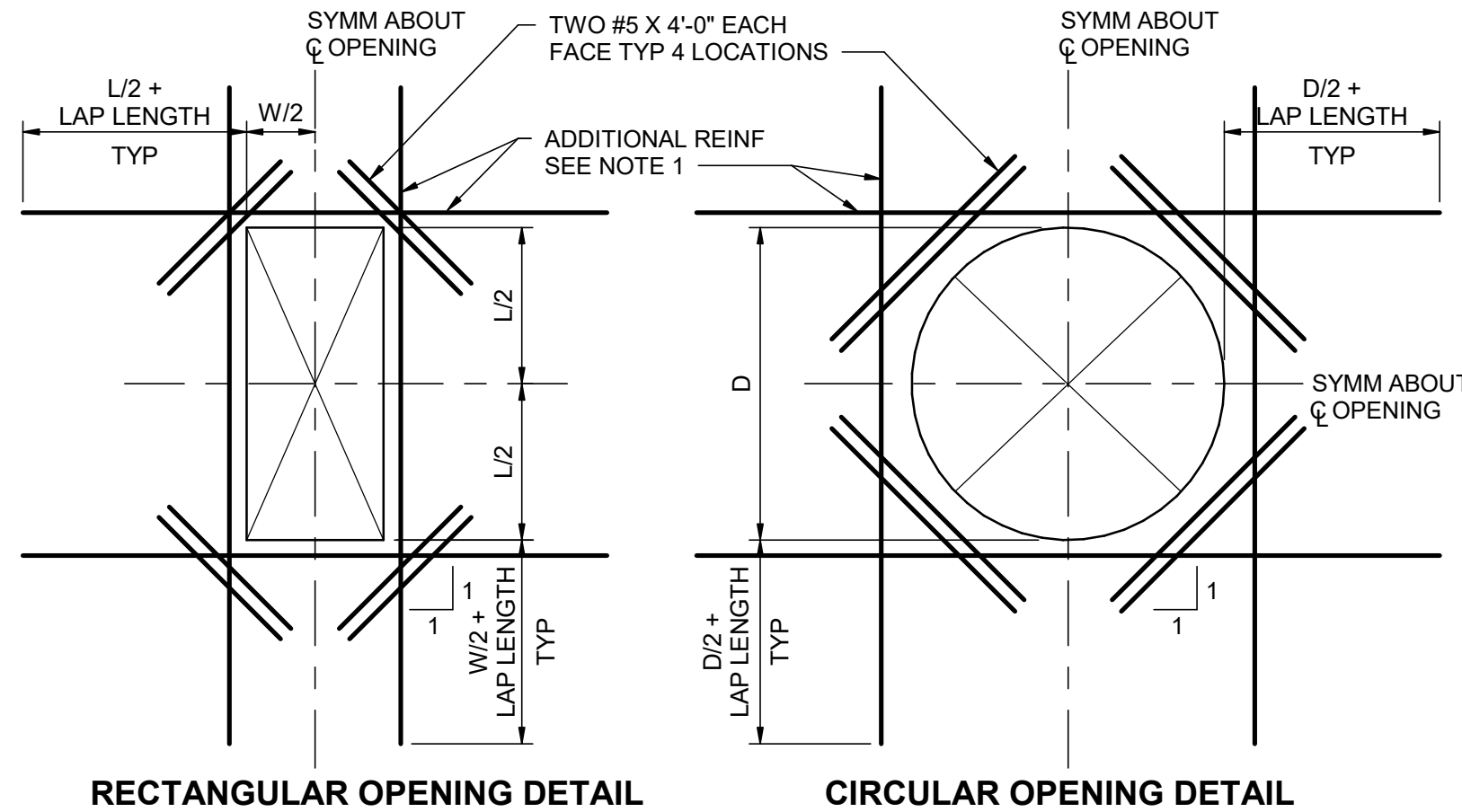
## 4 ADDITIONAL SLAB REINFORCING - NOT TO SCALE



### NOTES:

- GRATING SIZE PER CONTRACT DOCUMENTS.
- ALL ENDS AND OPENINGS SHALL BE BANDED, SEE SPECIFICATION.
- ATTACH GRATING TO ALL SUPPORT ANGLES WITH BOLTED CLIPS, SPACED AT 2'-0" MAX CENTERS.
- PROVIDE DISSIMILAR MATERIAL PROTECTION FOR ALUMINUM IN CONTACT WITH CONCRETE PER SPECIFICATION.

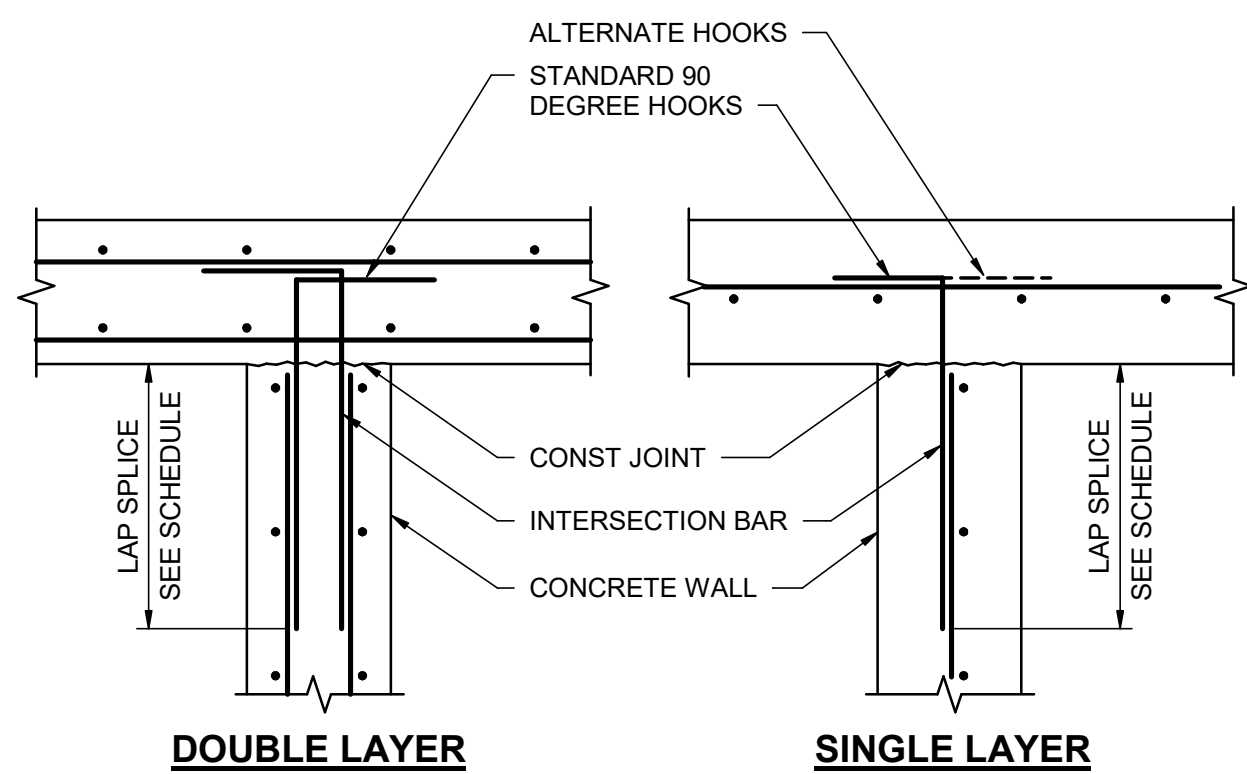
## 5 GRATING AND SUPPORT - NOT TO SCALE



### NOTES:

- PROVIDE ADDITIONAL REINFORCING THE SAME SIZE AS DISCONTINUOUS REINFORCEMENT AT OPENING. QUANTITY OF REINFORCING IN EACH DIRECTION SHALL BE EQUAL TO OR ONE GREATER THAN THE NUMBER OF DISCONTINUOUS BARS. PLACE 1/2 OF ADDITIONAL REINFORCING BARS EACH SIDE OF OPENING. PLACE ADDITIONAL REINFORCEMENT AT 3" OC (TYPICAL BOTH DIRECTIONS AND ALL LAYERS OF REINFORCEMENT). START FIRST BAR 2" CLEAR TO OPENING.
- EXTEND ADDITIONAL REINFORCING BEYOND EDGE OF OPENING AS SHOWN ABOVE. ADDITIONAL BARS MAY TERMINATE AT THE END OF THE WALL WITH A STANDARD HOOK WHERE THE LENGTH OF THE WALL WILL NOT PERMIT BARS TO EXTEND AS SHOWN ABOVE.
- TYPICAL WALL OR SLAB REINFORCING NOT SHOWN FOR CLARITY. TERMINATE TYPICAL REINFORCING 2" CLEAR TO OPENING.
- OPENINGS 12" OR LESS IN SLABS AND WALLS, NO EXTRA REBARS ARE REQUIRED UNLESS SHOWN OTHERWISE. TYPICAL REINFORCING SHALL BE RESPACED (NOT CUT) TO ALLOW FOR OPENINGS TO BE MADE.
- UNLESS SHOWN OTHERWISE ON DRAWINGS, PROVIDE EXTRA REINFORCING AROUND OPENINGS AS SHOWN AND INDICATED ABOVE.
- PROVIDE ADDITIONAL DOWELS PER NOTE 1 ABOVE FOR ALL OPENINGS NEAR THE FLOOR SLAB, BASE SLAB, OR CORNERS.

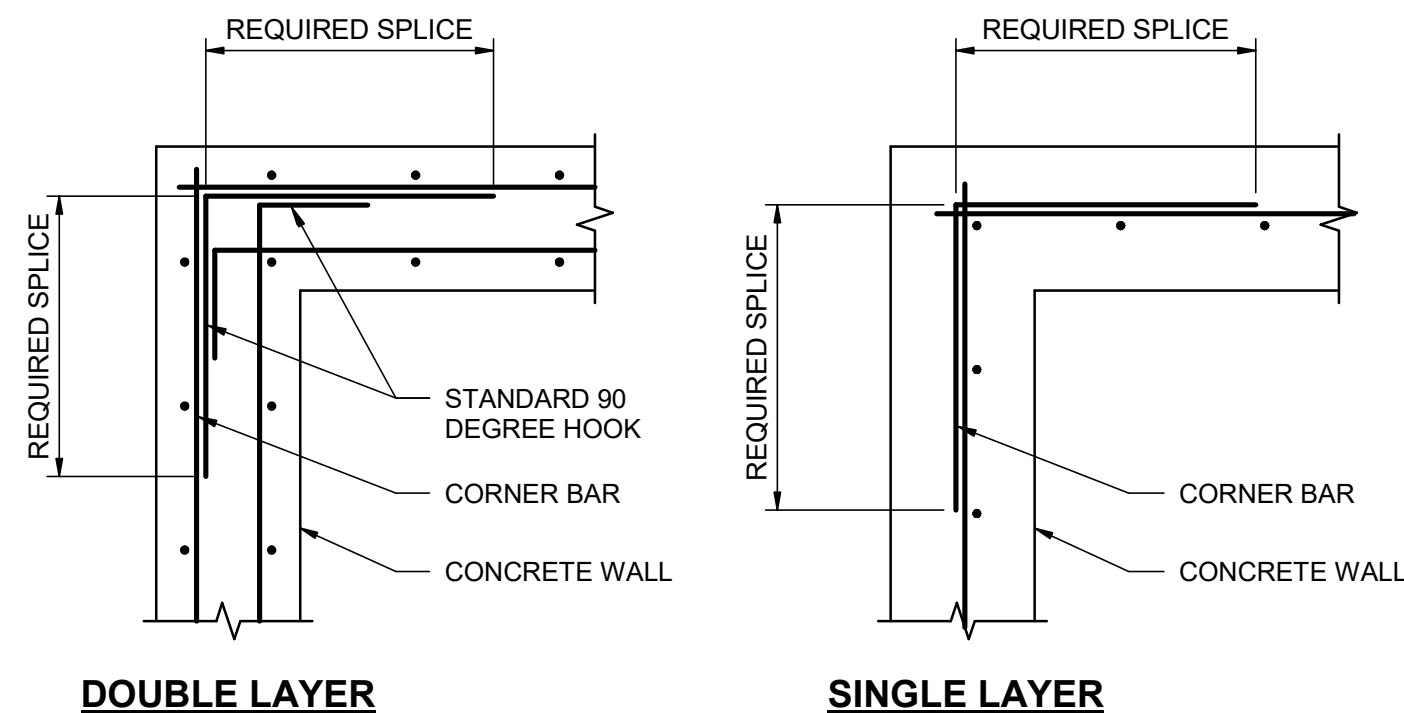
## 6 EXTRA REINFORCING AROUND OPENINGS - NOT TO SCALE



### NOTE:

- INTERSECTION BARS TO BE SAME SPACING AS HORIZONTAL BARS.

## 7 WALL REINFORCING @ INTERSECTION - NOT TO SCALE



### NOTE:

- CORNER BARS TO BE SAME SIZE AND SPACING AS HORIZONTAL BARS.

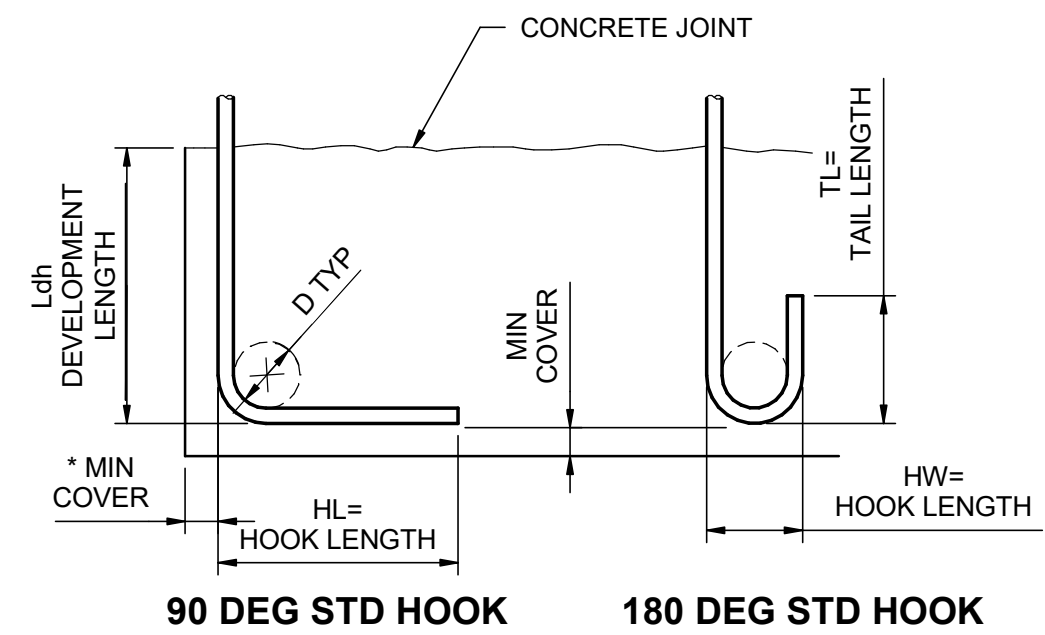
## 8 WALL REINFORCING @ CORNER - NOT TO SCALE

LAP SPLICE AND EMBEDMENT LENGTHS		
f <sub>c</sub> = 4.0 ksi f <sub>y</sub> = 60 ksi		
BAR	BARS SPACED GREATER THAN 4"	BARS SPACED LESS THAN OR EQUAL TO 4"
#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"

### NOTES:

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

## 9 CONCRETE REINFORCING LAP AND EMBEDMENT SCHEDULE - NOT TO SCALE

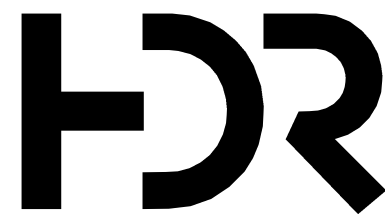


BAR SIZE GRADE 60	HL	HW	TL	D	f <sub>c</sub> =4.0 OR 4.5 KSI
					Ldh *
#3	6"	3"	3"	2 1/4"	6"
#4	8"	4"	4 1/2"	3"	7"
#5	10"	5"	5"	3 3/4"	9"
#6	1'-0"	6"	6"	4 1/2"	10"
#7	1'-2"	7"	7"	5 1/4"	12"
#8	1'-4"	8"	8"	6"	14"
#9	1'-7"	11 3/4"	10 1/2"	9 1/2"	15"
#10	1'-10"	1'-1 1/4"	11 1/2"	10 3/4"	17"
#11	2'-0"	1'-2 3/4"	1'-1"	12"	19"

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

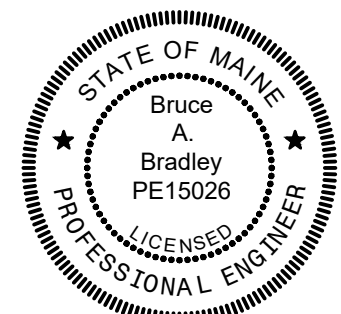
## 10 REINFORCING HOOK SCHEDULE - NOT TO SCALE

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ELECTRICAL	A. KANER
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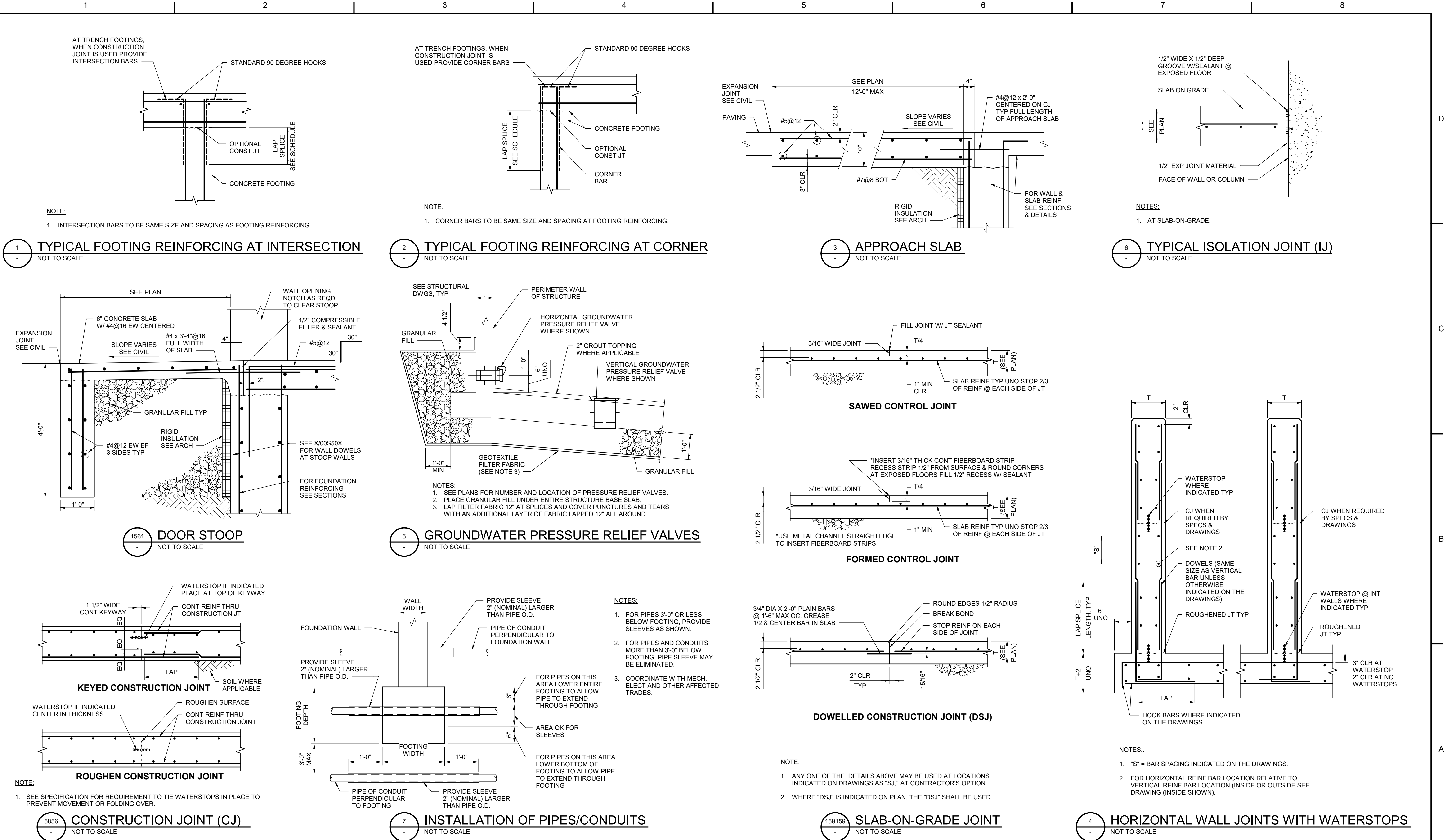
## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

## GENERAL STRUCTURAL DETAILS 2



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SCALE As indicated

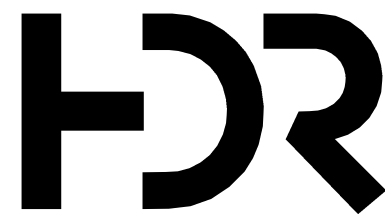
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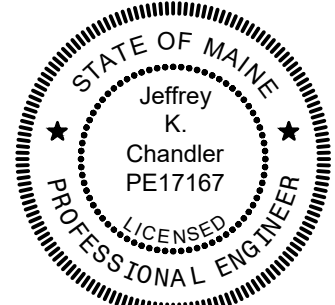


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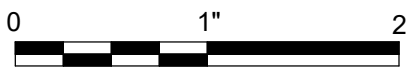
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## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

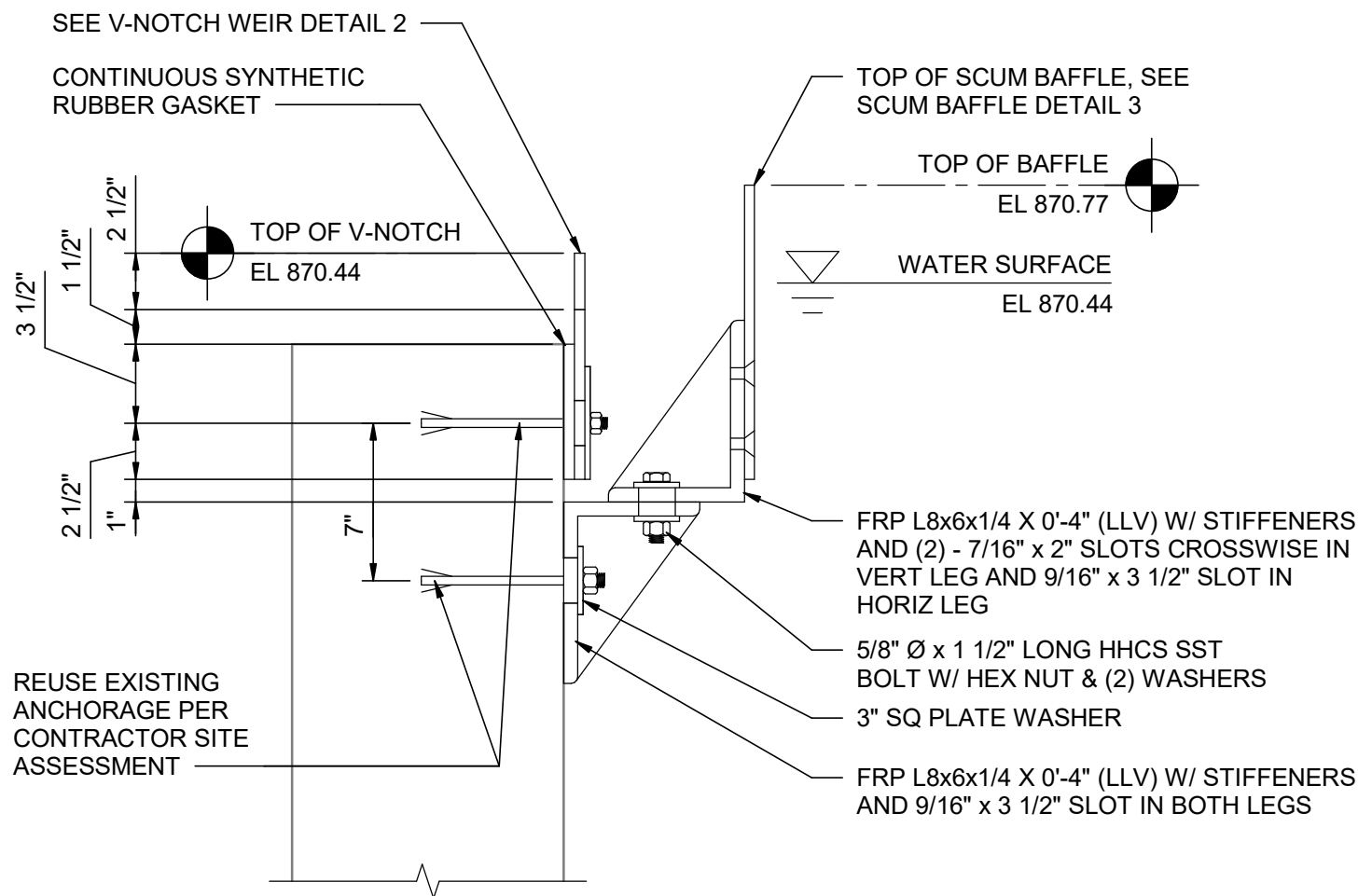
## GENERAL PROCESS DETAILS



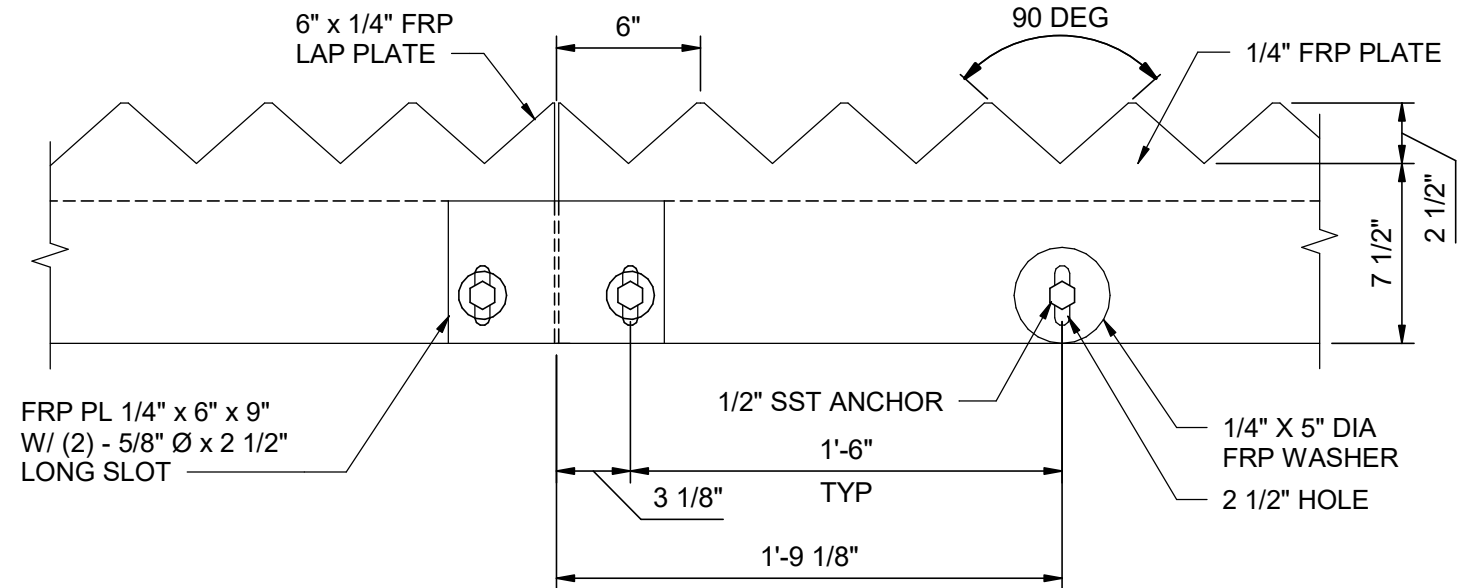
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00D-501

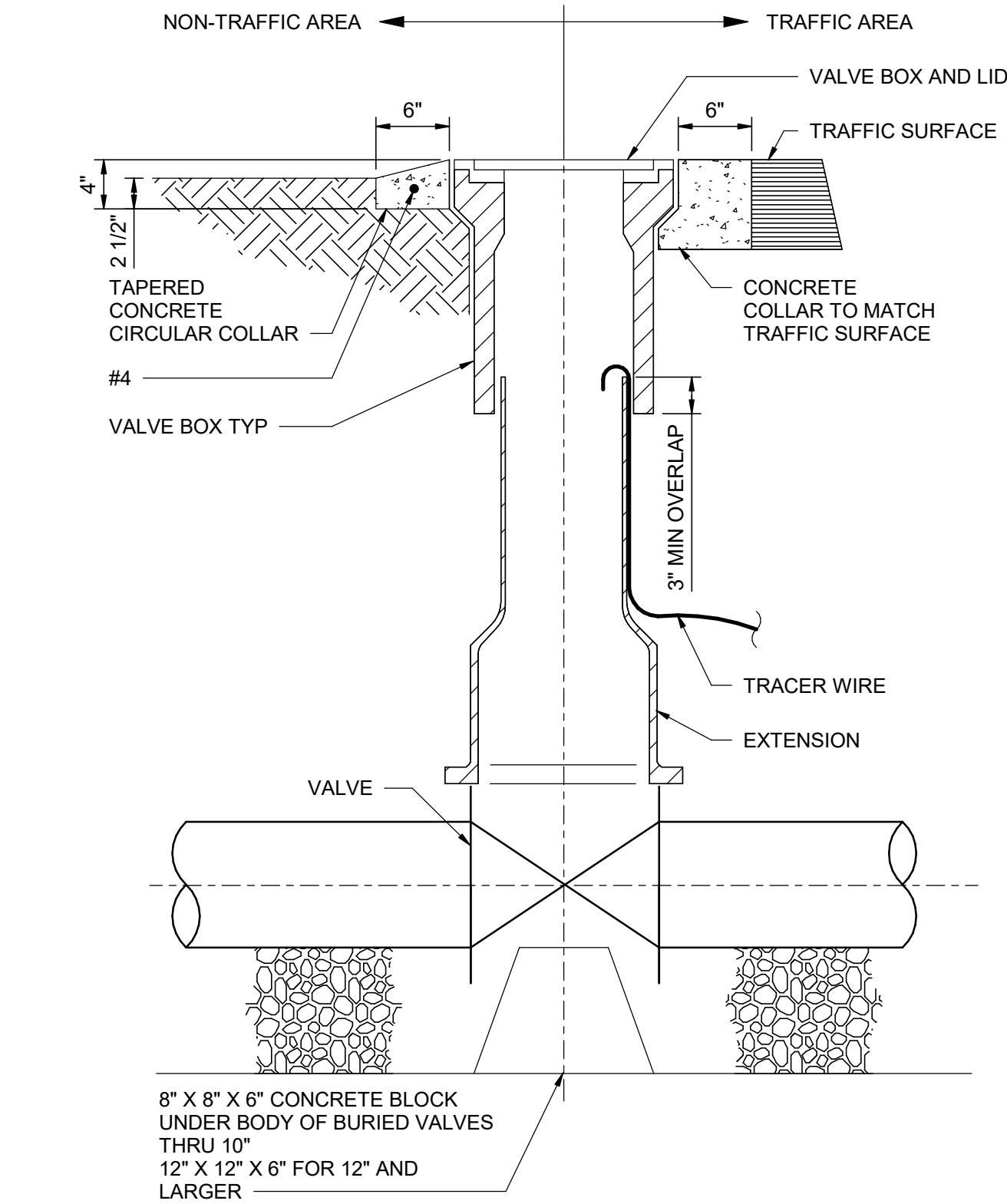
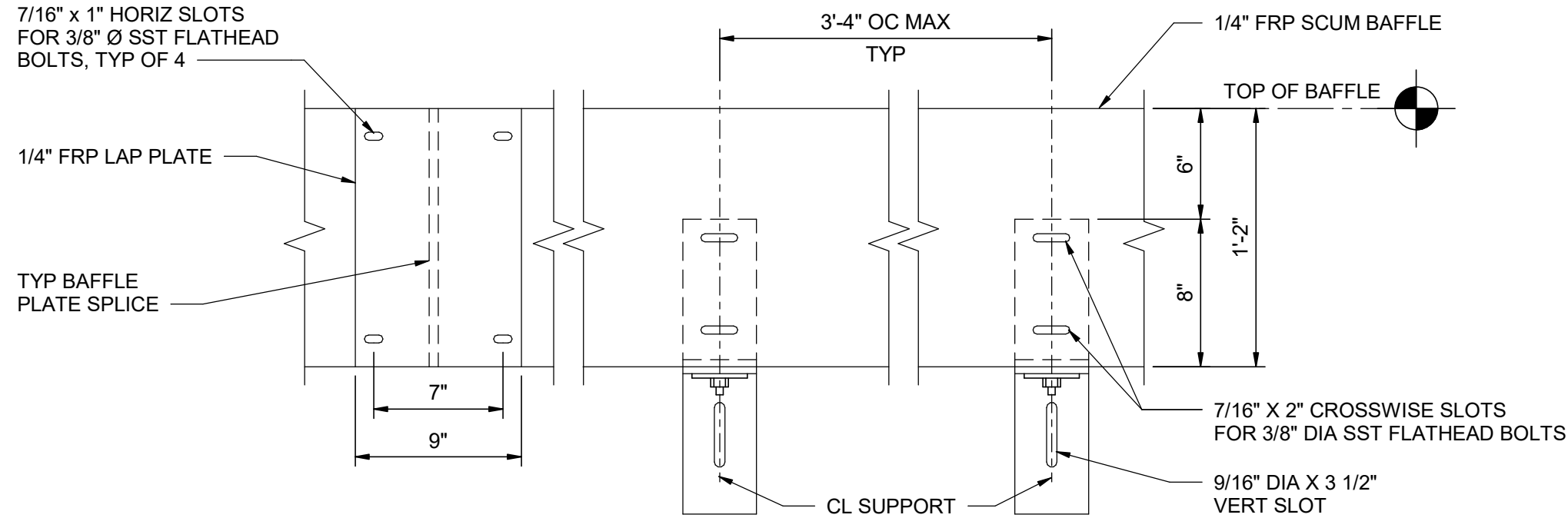
1 FRP SCUM BAFFLE & WEIR PLATE DETAIL  
00D-501 NOT TO SCALE



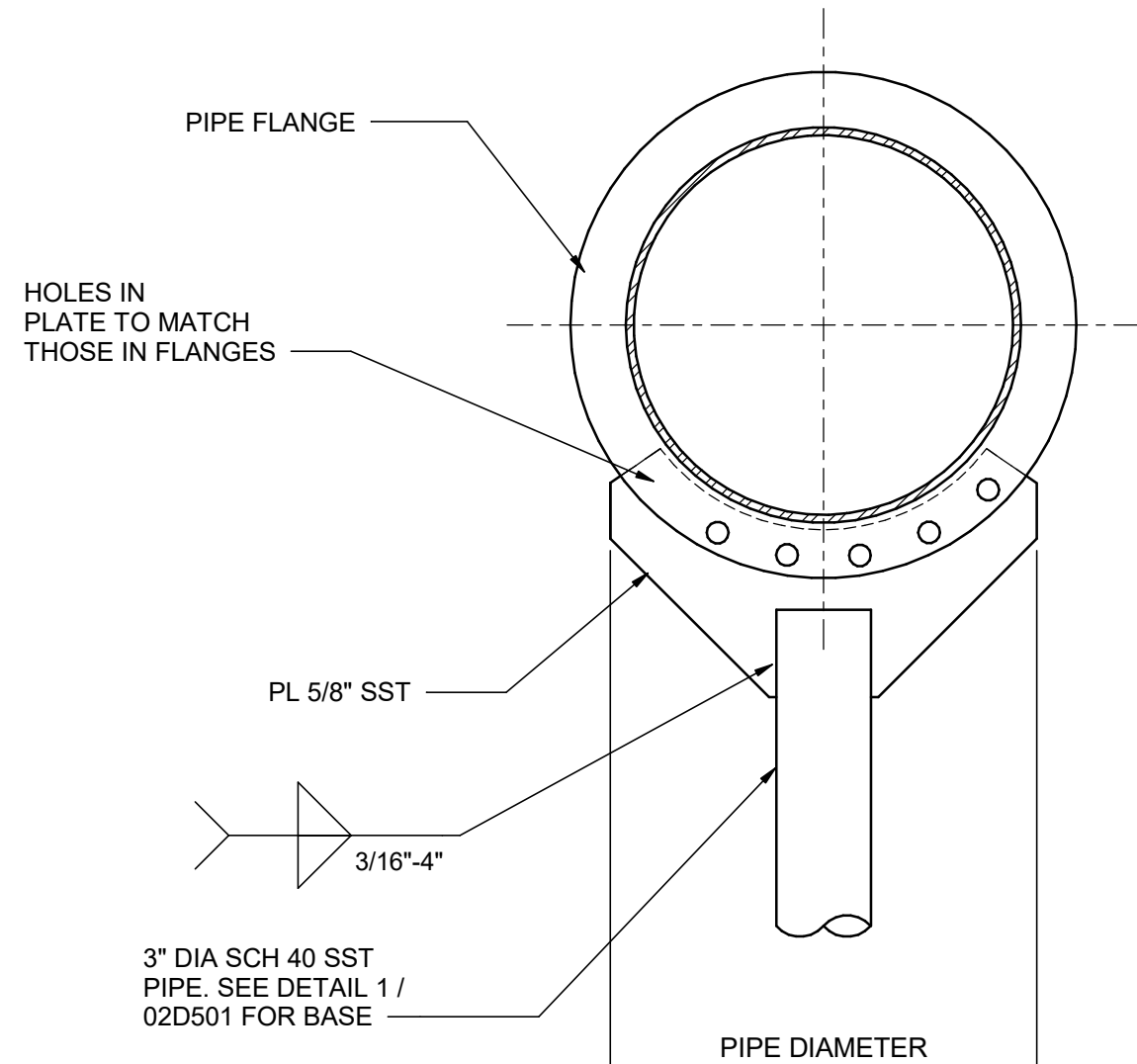
2 FRP V-NOTCH WEIR PLATE DETAIL  
00D-501 NOT TO SCALE



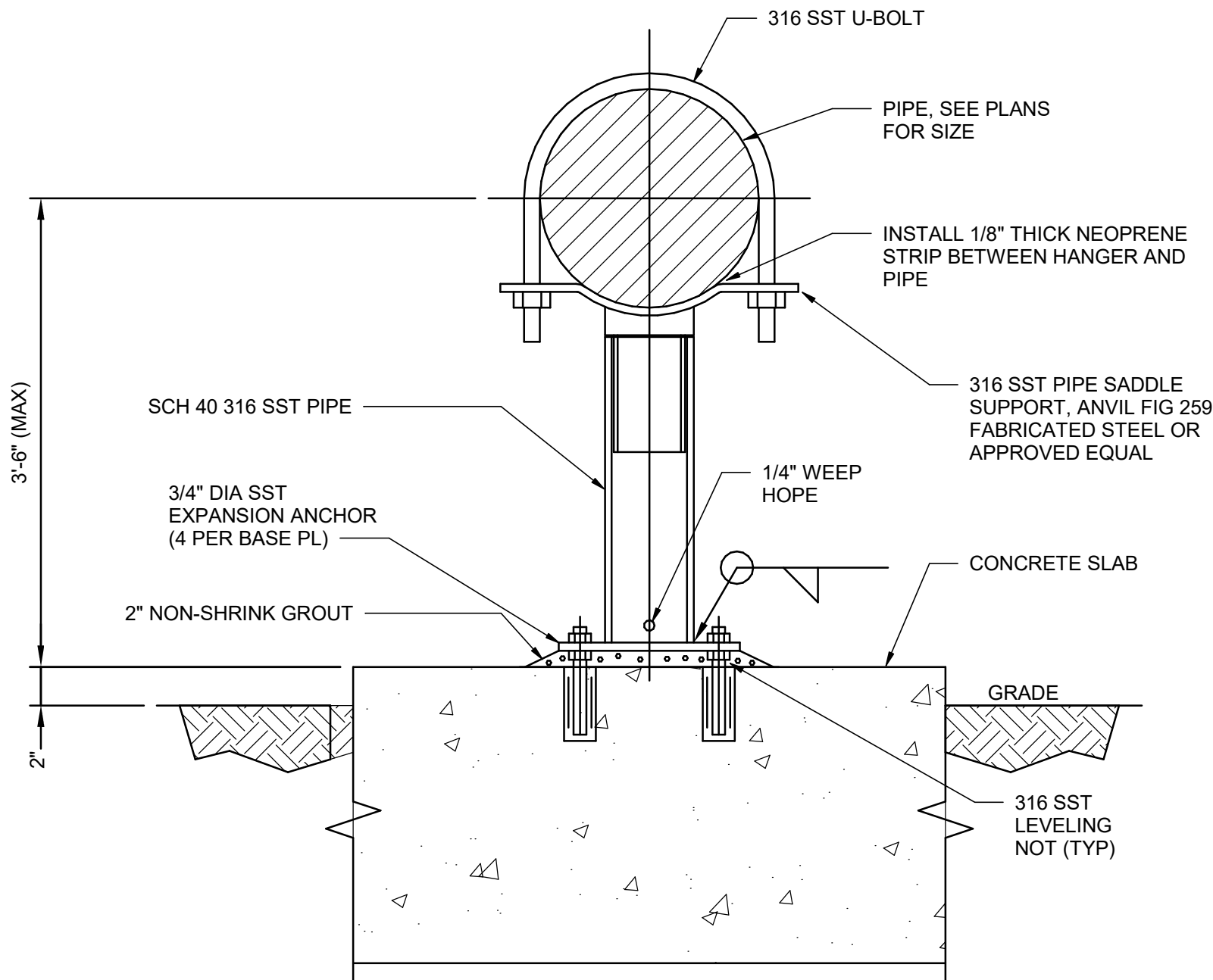
3 FRP SCUM BAFFLE DETAIL  
00D-501 NOT TO SCALE



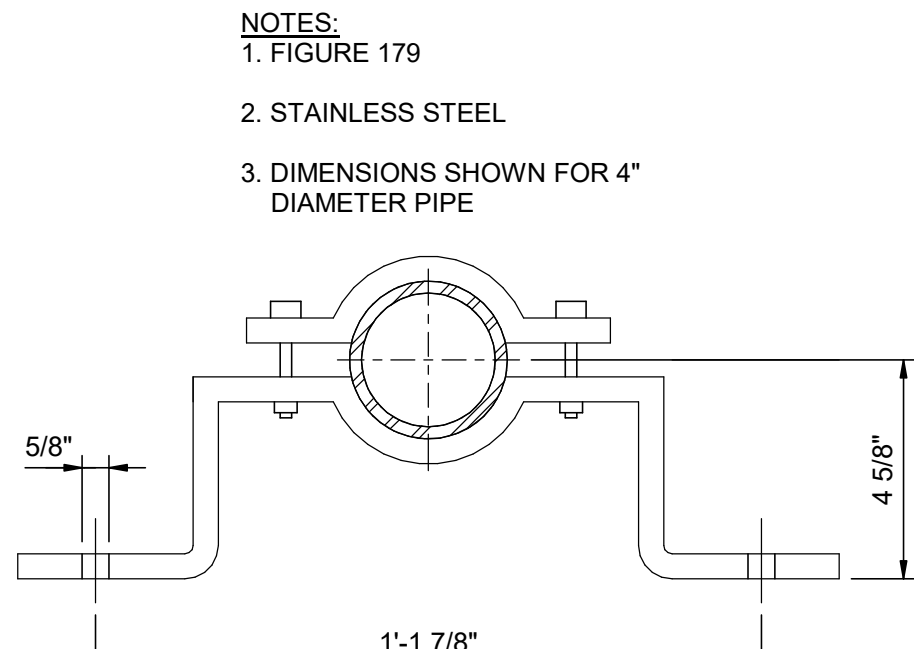
4 BURIED VALVE BOX W/ TRACER WIRE DETAIL  
00D-501 NOT TO SCALE



5 FLANGED PIPE SUPPORT  
00D-501 NOT TO SCALE



6 PIPE SUPPORT  
00D-501 NOT TO SCALE



7 OFFSET PIPE CLAMP  
00D-501 NOT TO SCALE

- NOTES:  
1. FIGURE 179  
2. STAINLESS STEEL  
3. DIMENSIONS SHOWN FOR 4" DIAMETER PIPE



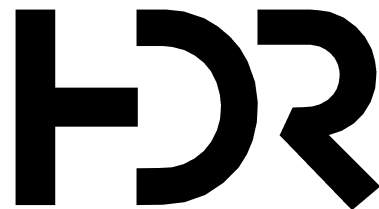
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00D-502 NOT TO SCALE



### FLOW SCHEMATIC

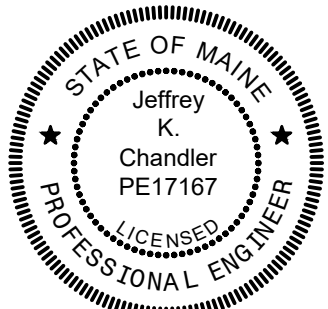
The flow schematic illustrates the wastewater treatment process. It begins with an 'EXISTING RACEWAY HEADER: 500 GPM' which splits into two paths: one leading to the 'UPPER TANK PAVILION' (416 GPM) and another bypassing it (84 GPM). The 'UPPER TANK PAVILION' contains four circular tanks. From its outlet, 332 GPM flows through a 'Manhole' (labeled 'OW' with a green arrow indicating 0 gpm) to the 'LOWER TANK PAVILION', which also contains four circular tanks. The 'LOWER TANK PAVILION' has an outlet labeled '416 GPM (EXCLUDING SURGE)'. A 'RACEWAY FLOW: 1580 GPM' line joins the 84 GPM bypass from the header and the 416 GPM from the lower tank pavilion, then flows into the 'ROTATING DRUM FILTERS'. The 'ROTATING DRUM FILTERS' have two outlets: one leading to the 'CLARIFIER' and another leading to the 'RIVER'. The 'CLARIFIER' has an outlet leading to the 'SLUDGE STORAGE TANK'. The 'SLUDGE STORAGE TANK' has an outlet leading to a 'Disposal' truck. A 'BACKWASH LIFT STATION' is connected to the 'ROTATING DRUM FILTERS' and the 'SLUDGE STORAGE TANK'. A 'HATCH HOUSE FLOW: 60 GPM' line joins the flow from the 'ROTATING DRUM FILTERS' before it enters the 'CLARIFIER'. A dashed line indicates a flow of '500 GPM (EXCLUDING SURGE)' from the 'ROTATING DRUM FILTERS' back to the 'UPPER TANK PAVILION'.

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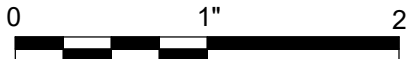
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PROJECT MANAGER ANDREW GURSKI	
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ELECTRICAL	A. KANER
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IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

PROCESS SCHEDULES 1



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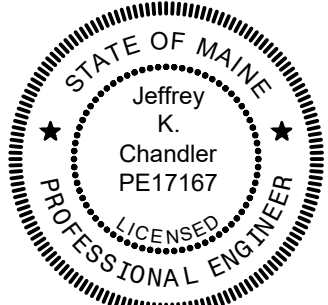
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IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

PROCESS SCHEDULES 2

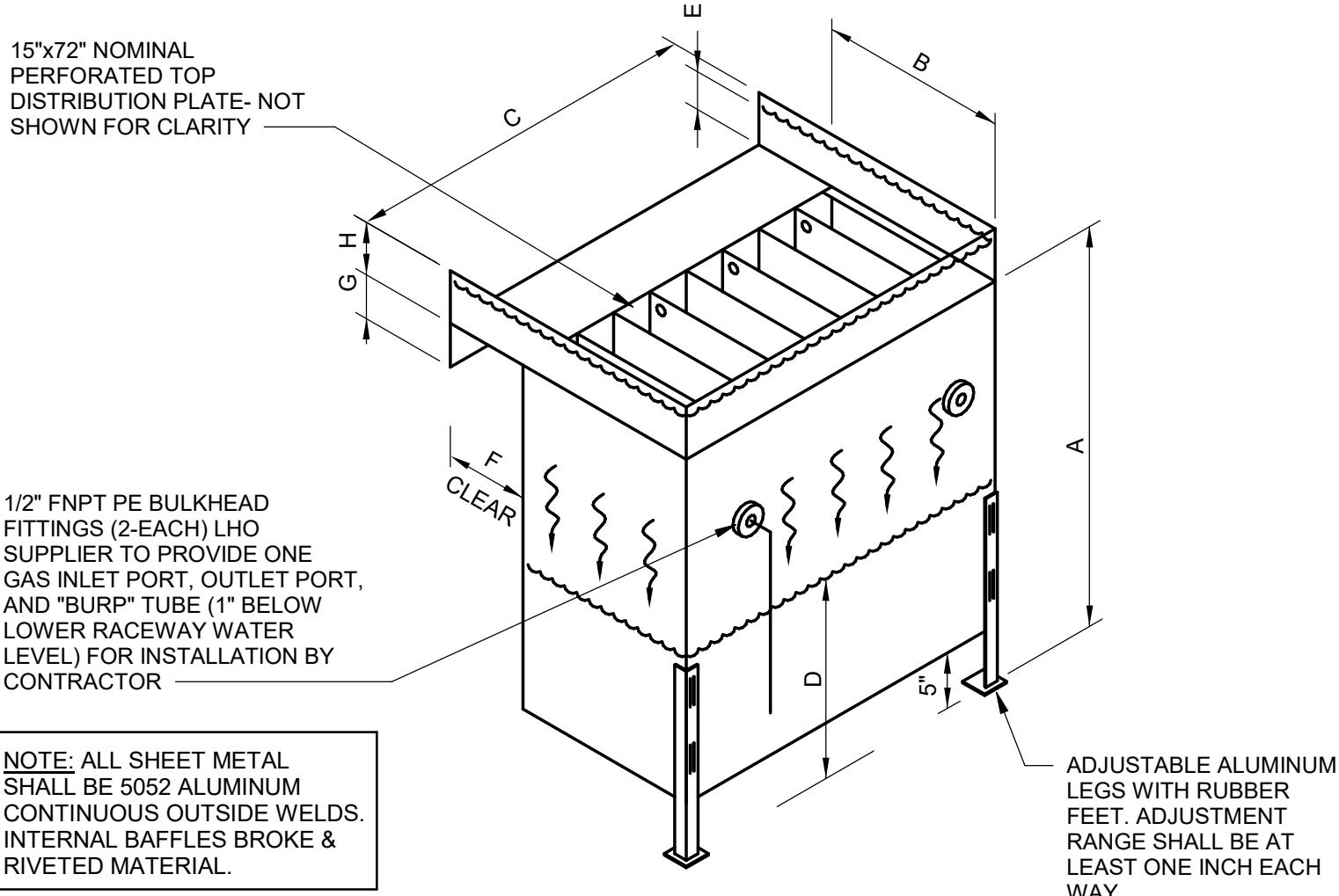


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SHEET
00D-603

LHO AND DIFFUSER SCHEDULE																
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)	O2 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:1DMBDC100)	UPPER PAVILION	CD0201	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	UPPER PAVILION	CD0202	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	UPPER PAVILION	CD0203	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	UPPER PAVILION	CD0204	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC600)	RACEWAY BUILDING	CD0501	NA	NA	NA	NA	NA	NA	NA	NA	18.00	2-26	2000	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC600)	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:1DMBDC100)	LOWER PAVILION	CD0301	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
REUSE	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	LOWER PAVILION	CD0302	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
REUSE	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	LOWER PAVILION	CD0303	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
REUSE	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	LOWER PAVILION	CD0304	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA

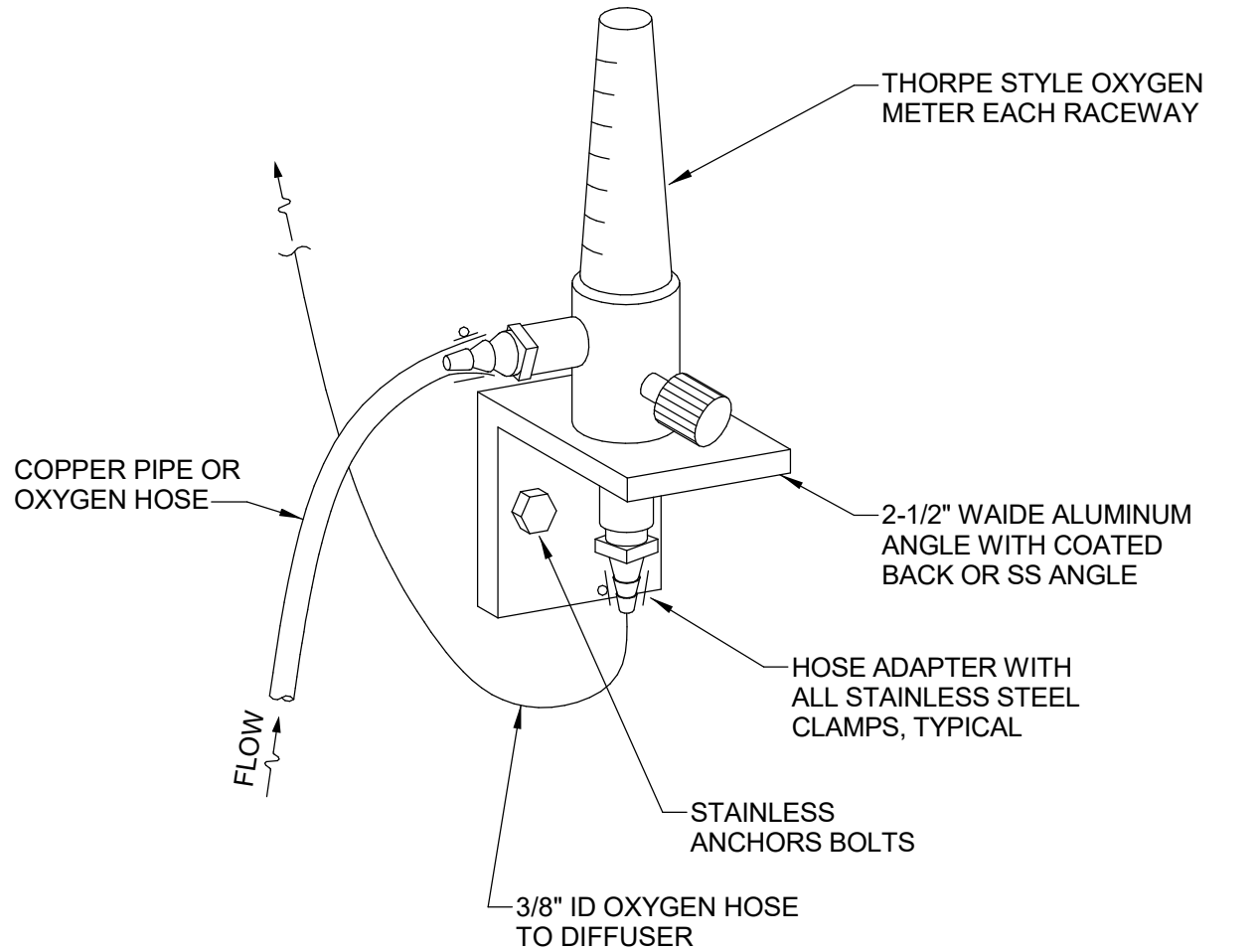
- General Notes:
- CONTRACTOR TO FIELD VERIFY DIMENSIONS AND ELEVATIONS BEFORE PROVIDING LHO'S.
  - BASIS OF DESIGN IS POINT FOUR FOR DIFFUSERS AND NP INNOVATIONS FOR LHO'S



1 LHO DETAIL  
00D-603 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	18" SDR35	IN	W	Filter Building	24" ID CAST IRON VENTED FRAME AND LID	285.35	NE
		280.93	18" SDR35	OUT	S	MH6 (E)			
MH8	4	279.03	15" SDR35	IN	S	Manhole 9	24" ID CAST IRON VENTED FRAME AND LID	285	WSW
		279.02	12" SDR35	OUT	NW	Filter Building			
		279.02	12" SDR35	OUT	NE	Filter Building			
MH9	4	279.07	12" SDR35	IN	W	Upper and Lower Pavilions	24" ID CAST IRON VENTED FRAME AND LID	285	E
		279.05	12" SDR35	IN	S 30 Deg W	Raceway Drainage			
		279.05	15" SDR35	IN	SE	Raceway Show Pool			
		279.04	15" SDR35	OUT	N	Manhole 8			
MH10	4	280.98	12" C905	IN	SW	Upper Pavilion	24" ID CAST IRON VENTED FRAME AND LID	287.39	SE
		280.78	12" C905	OUT	NE	Lower Pavilion			
MH11	4	282.17	12" C905	IN	NW	Upper Pavilion	24" ID CAST IRON VENTED FRAME AND LID	287.39	NE
		280.06	6" SDR35	IN	W	Upper Pavilion			
		279.99	12" SDR35	OUT	S	MH9			
MH12	4	280.22	6" (WDW)	IN	N	Upper Pavilion	24" ID CAST IRON VENTED FRAME AND LID	287.9	S
		280.22	12" (WDW)	OUT	E	MH9			
MH13	4	290.00	14" C905	IN	S	Raceway Header	24" ID CAST IRON VENTED FRAME AND LID	290.98	S
		290.00	14" C905	OUT	E	Upper Pavilion			

- General Notes:
- Any pump stations, pump station valve vaults, valve basins and air release valve vaults are not included in this manhole schedule. See individual drawings.
  - All Manholes on this schedule will be precast.
  - 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  
00D-603 NOT TO SCALE



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:

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

2. 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		Damper	Curb			
WEF-1	Effluent Treatment Building	Wall	Direct	2000		0.375	1/2	1140	120	1	ODP	15 X 15	DP-1	NA	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	4" DIA	DP-3	NA	7.4	2,3	FANTECH RVF 4
WEF-3	LOWER PAVILION	WALL	DIRECT	50 (MIN)	10	0.375	NA	3100	120	1	ODP	4" DIA	DP-4	NA	7.4	2,3	FANTECH RVF 4

**Accessories:**

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

2. NEMA-1 disconnect factory mounted and wired

- ### 3. Thermal overloads in motor or factory mounted disconnect

Damper Schedule											
Tag	Building	Associated Equipment	Airflow (CFM)	Width (IN)	Height (IN)	Leakage (CFM/SF @ 1" H2O)	Actuator		Materials	Accessories	Make & Model
							Max Operation Time (sec)	Fail Posiiton	Damper Material		
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:**

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

2. Actuator operating and/or holding power requirements shall not exceed 25 watts per actuator

3. Insulated & broken airfoil blades, 304 SS axle and linkage, synthetic axle bearings, silicone blade and jamb seals

4. Removable framed aluminum or SS insect screen

HEAT RECOVERY VENTILATOR SCHEDULE										
TAG	MINIMUM SENSIBLE EFFICIENCY AT 32 F OUTSIDE AIR	ROOM OR SPACE SERVED	FAN DATA		MOTOR DATA		CONTROL	WEIGHT (LB)	MAKE & MODEL	NOTES
			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	44	FANTECH VHR 150R ES	1

NOTES:

1. AIR CONNECTIONS 4" ROUND OR 5" OVAL WITH PLASTIC ALUMINUM 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

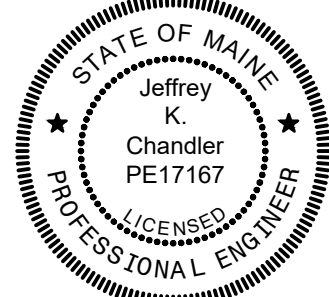
1. BUILT-IN DISCONNECT
2. 24 VOLT TRANSFORMER
3. HORIZ. AIR/VENT KIT, INCL. CONCENTRIC ADAPTER

- ## 2. 24 VOLT TRANSFORMER

3. HORIZ. AIR/VENT KIT, INCL. CONCENTRIC ADAPTER

[illegible]

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



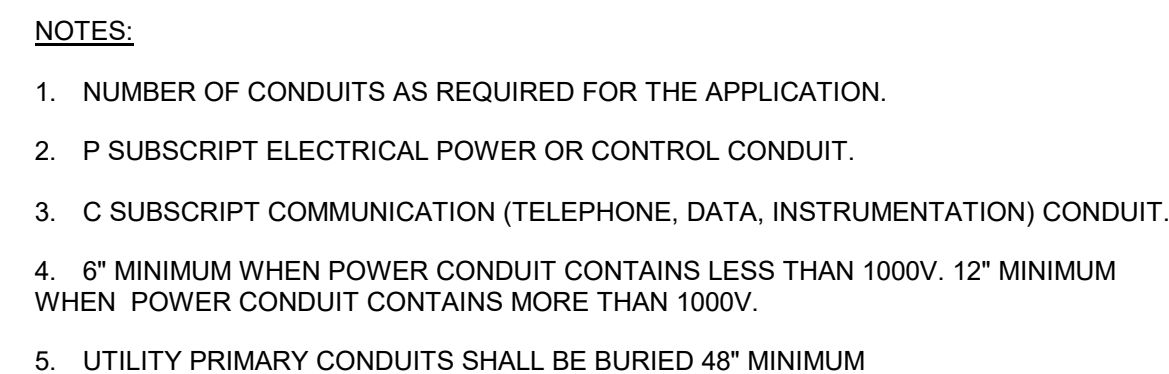
## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

## MECHANICAL SCHEDULES



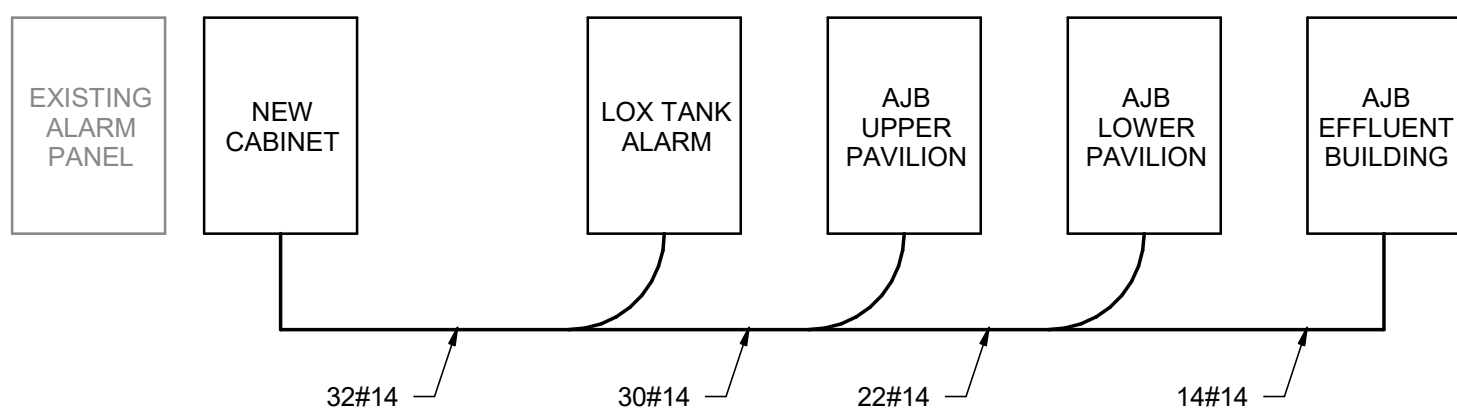
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**00M-601**



- NOTES**
1. COMBINED EQUIPMENT LOADS PER 36" SPAN SHALL NOT EXCEED 500LBS.
  2. PROVIDE GROUNDING FOR OUTDOOR INSTALLATIONS, PER SPECIFICATION 26 05 00.
  3. MODULAR STRUCT WIDTH: 1 5/8".
  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.

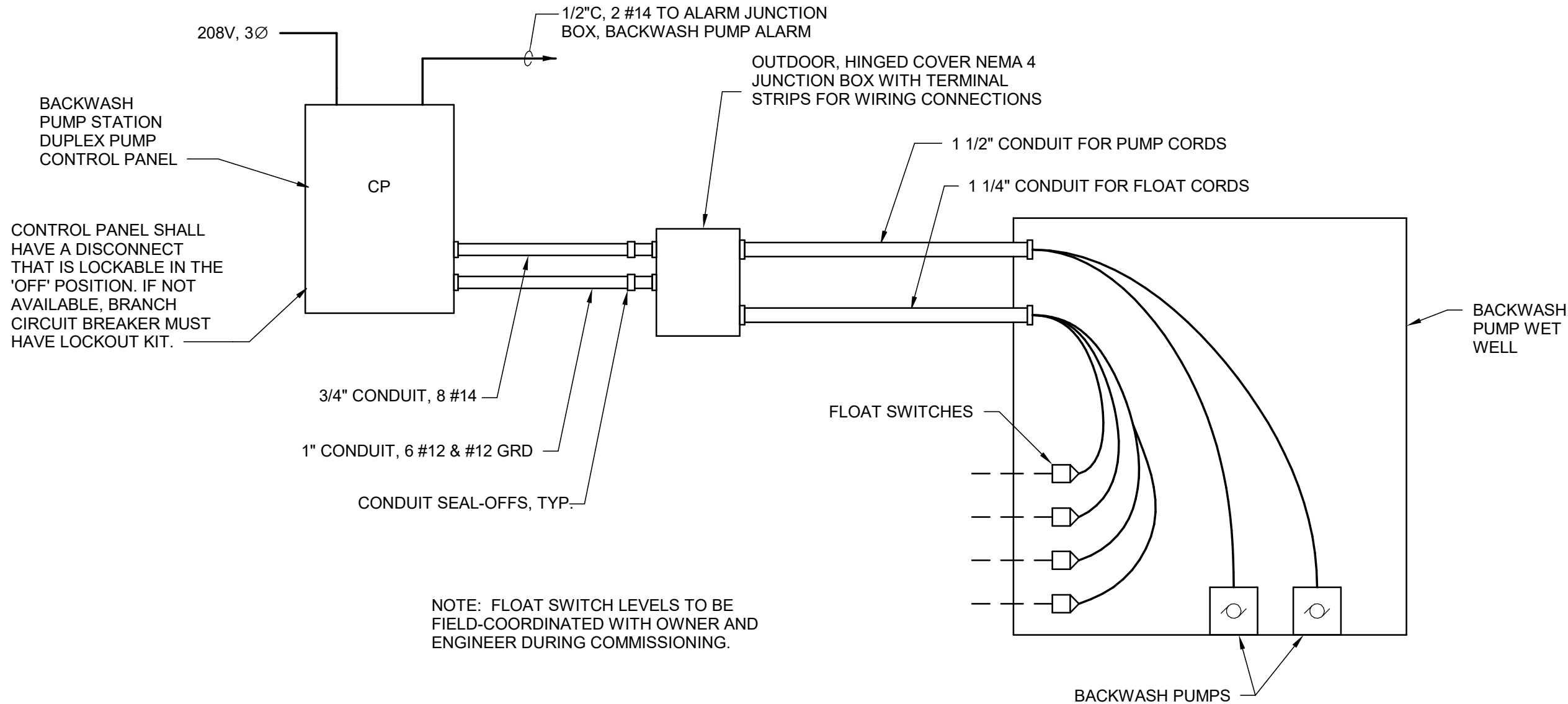




## NOTES:

- 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



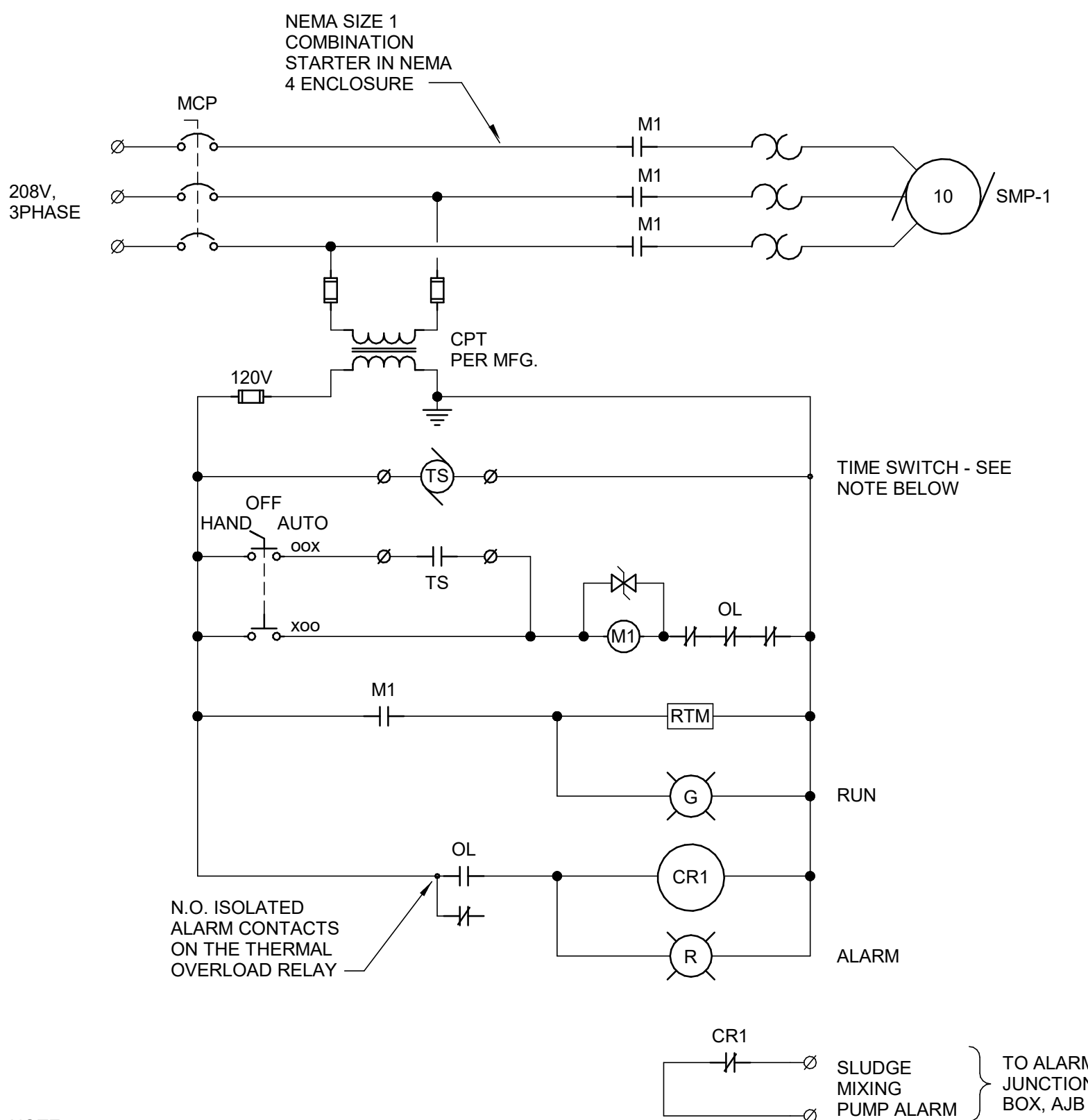
2 BWPS-1 BACKWASH PUMP SYSTEM - BLOCK DIAGRAM  
- NOT TO SCALE

ALARM JUNCTION BOX TERMINALS - EFFLUENT BUILDING	
TERMINALS	DESCRIPTION
1a - 1b	CLARIFIER PANEL ALARM
2a - 2b	SLUDGE PUMP TRIP
3a - 3b	EDF-1 ALARM
4a - 4b	EDF-2 ALARM
5a - 5b	BACKWASH PUMP STATION ALARM
6a - 6b	HEAT TRACE 1
7a - 7b	HEAT TRACE 2
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	

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	

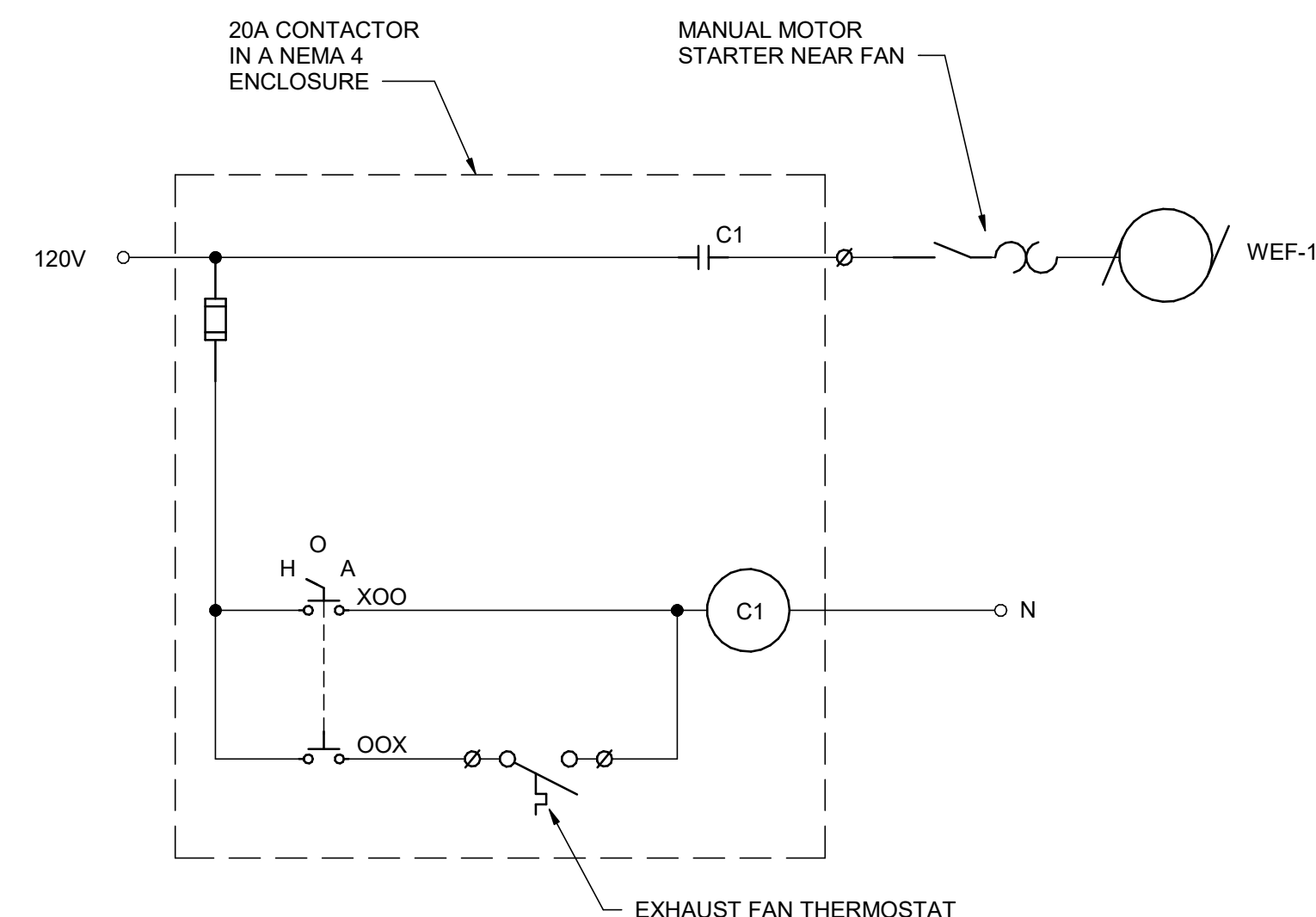
3 ALARM JUNCTION BOX SCHEDULES  
- NOT TO SCALE



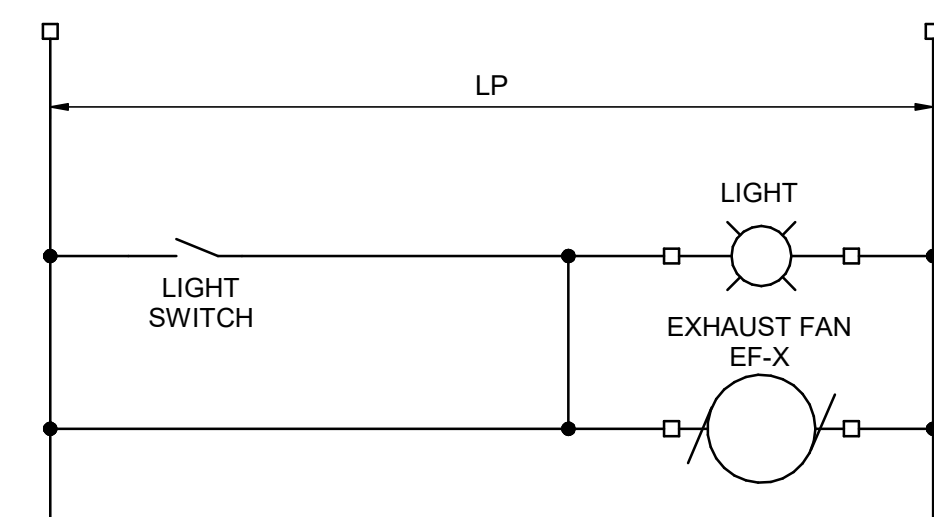
## NOTE:

TIME SWITCH SHALL BE 24 HOUR TYPE AND SHALL INCLUDE 96 SEMI-PERMANENT ATTACHED TRIPPERS ALLOWING MIN. ON/OFF TIME OF 15 MINUTES. CLOCK SHALL INCLUDE SKIPPER FEATURE TO ENABLE SWITCHING OPERATION TO BE SKIPPED ON ANY DAY OR DAYS OF THE WEEK, AND SHALL INCLUDE SPRING WOUND CARRY OVER FEATURE. CLOCK SHALL BE COMPLETE WITH NEMA 3R METAL ENCLOSURE.

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



5 WIRING DIAGRAM - EXHAUST FAN  
- NOT TO SCALE



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

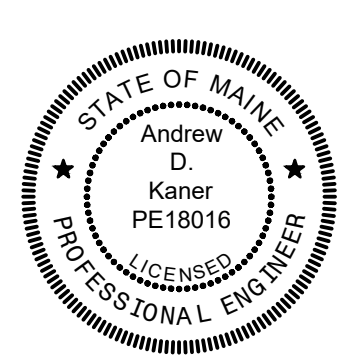


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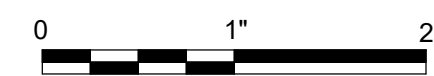
## PROJECT MANAGER ANDREW GURSKI

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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

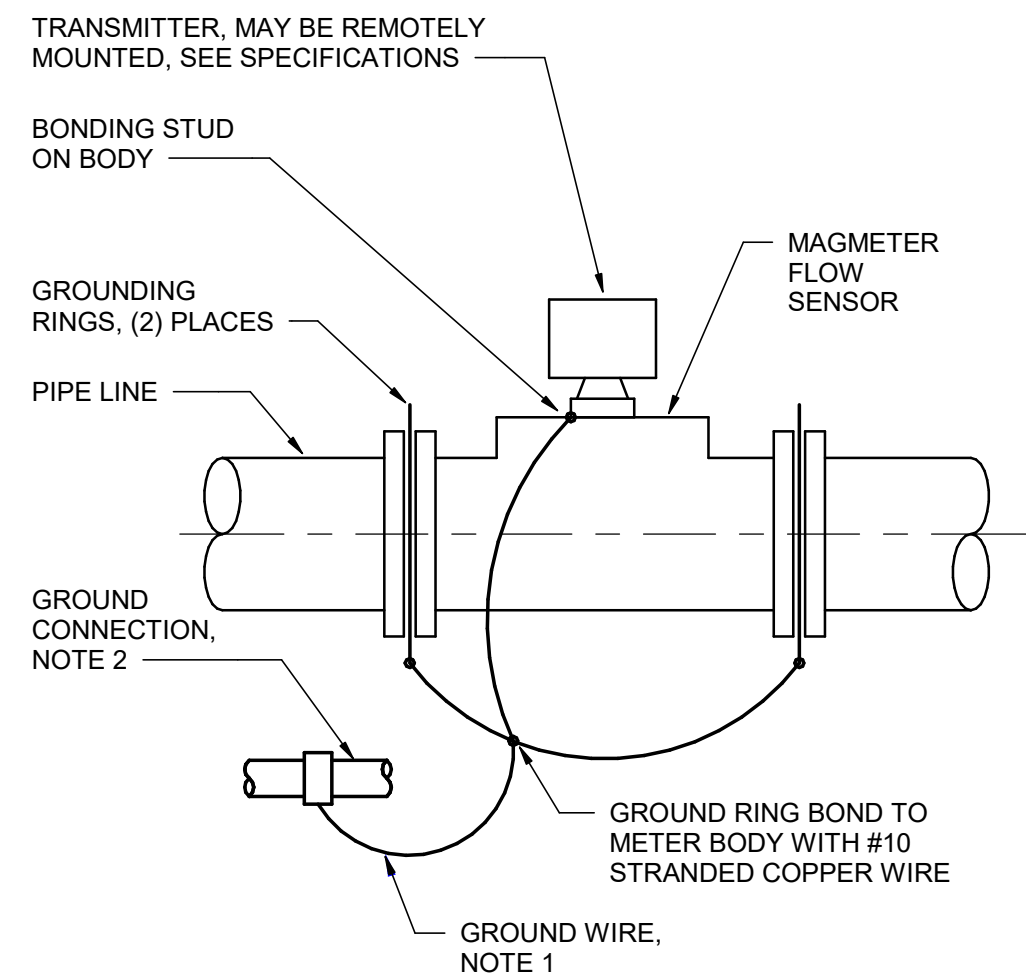
## GENERAL ELECTRICAL DETAILS 2



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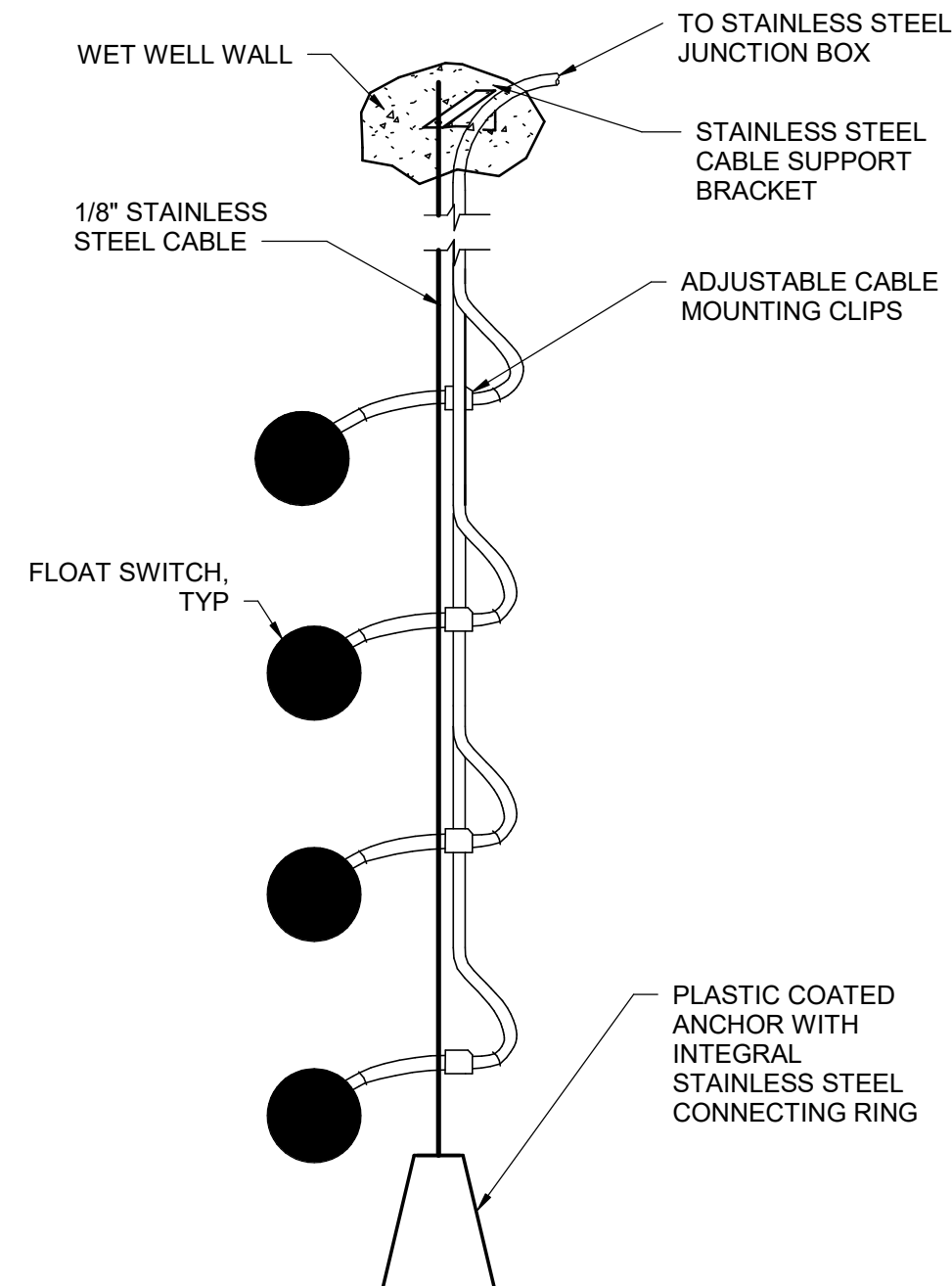




## NOTES:

- NO. 10 AWG INSULATED IF LENGTH IS LESS THAN 6'. IF MORE THAN 6', INSTALL CONDUCTOR IN 3/4" CONDUIT.
- BOND MAGMETER 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

1  
-  
12" = 1'-0"

## NOTES:

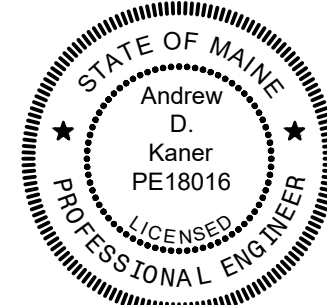
- LEVEL FLOATS TO BE MOUNTED WITHIN 18" TO ONE SIDE OF ACCESS OPENING.
- WHEN FLOATS ARE SET CLOSER THAN 18" OF LEVEL DIFFERENCE, ROTATE FLOATS AROUND PIPE TO AVOID INTERFERENCE.

### TYPICAL WET WELL LEVEL FLOATS INSTALLATION DETAIL

3  
-  
NOT TO SCALE

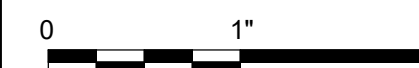
PROJECT MANAGER ANDREW GURSKI		
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	MECHANICAL J. CHANDLER
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PROJECT NUMBER 10357686	



## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

### GENERAL INSTRUMENTATION DETAILS 1



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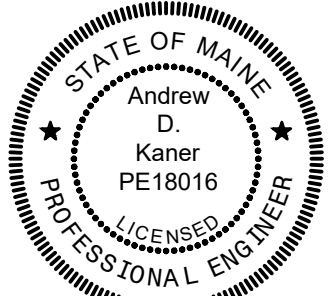
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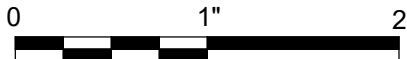


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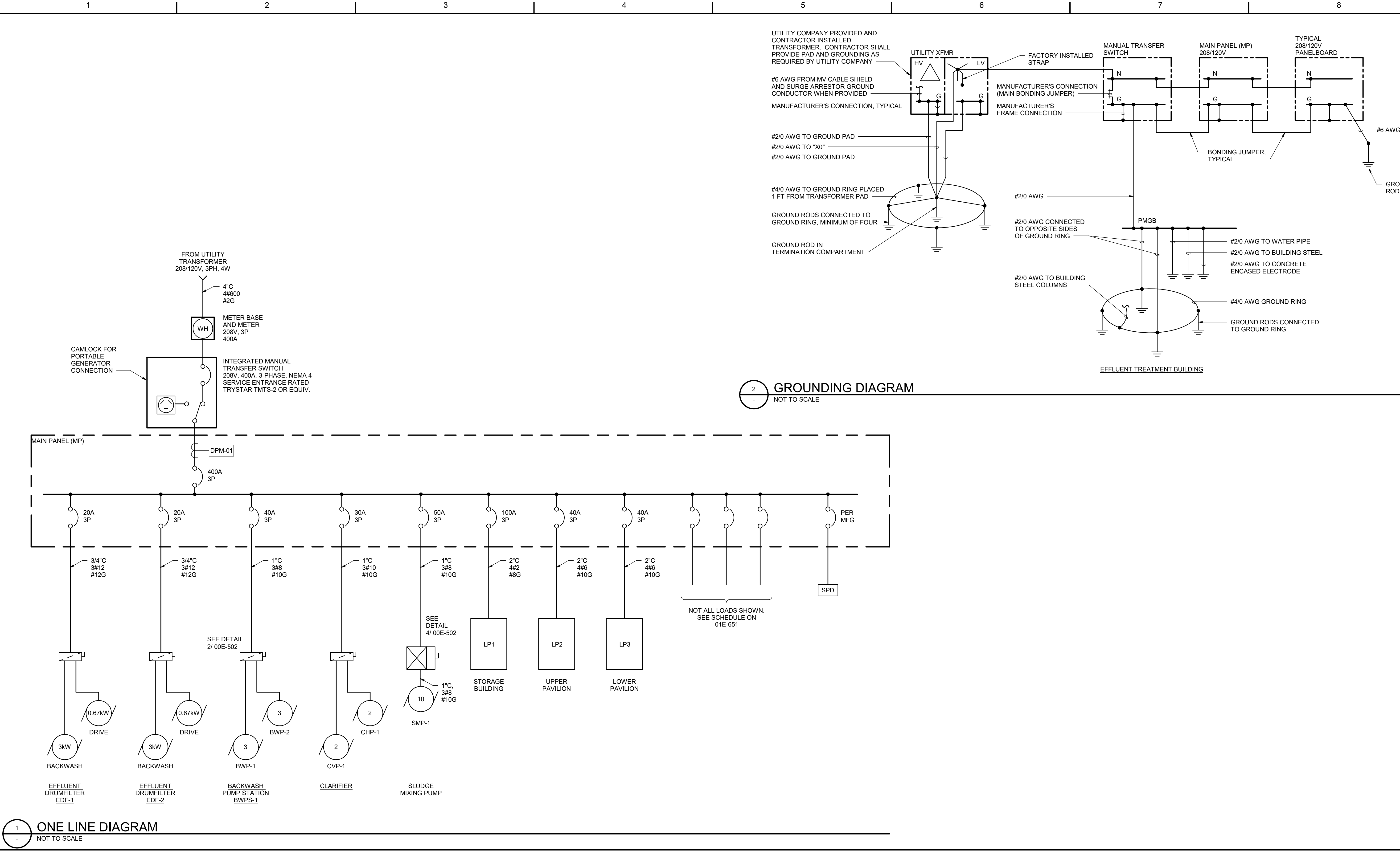
IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY



DIAGRAMS

FILENAME	103537686-00-G.rvt
SCALE	AS NOTED

SHEET  
00E-601



1 ONE LINE DIAGRAM  
NOT TO SCALE

2 GROUNDING DIAGRAM  
NOT TO SCALE

PANELBOARD NO: LP3														
VOLTAGE:		208Y/120		BUS RATING...		100		ENCLOSURE:		NEMA 4				
PHASE:		3		MAIN OC DEVICE:		40/3		MOUNTING:		SURFACE				
WIRE:		4+GND		INTERRUPTING RATING (KA):		22		LOCATION:		LOWER PAVILION				
200% NEUTRAL:		NO		SERVICE ENTRANCE LABEL:		...								

CKT NO.	DESCRIPTION	CONNECTED LOAD (VA)				OCP		OCP		CONNECTED LOAD (VA)				DESCRIPTION	CKT NO.
		LTS	REC	MECH	MISC	AMPS	P	AMPS	P	LTS	REC	MECH	MISC		
1	RECP (NORTH)		900			20	1 A	20	1		900			RECP (SOUTH)	2
3	AIR CIRC. FANS			480		20	1 B	30	1			700		OVERHEAD DOOR - E	4
5	LIGHTING (INTERIOR)	865				20	1 C	30	1			700		OVERHEAD DOOR - C	6
7	LIGHTING...	125				20	1 A	30	1			700		OVERHEAD DOOR -...	8
9	SPARE					20	1 B	20	1					SPARE	10
2	SPARE					20	1 C	20	1					SPARE	12
4	SPARE					20	1 A	PER							14
6	SPARE					20	1 B	MFG.	3					SPD	16
8	SPARE					20	1 C								18

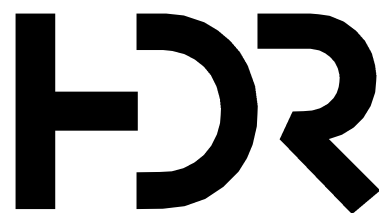
LOAD SUMMARY														
	LTS	REC	MECH	MISC	SPARE	TOTAL							PHASE BALANCE	
CONNECTED LOAD (KVA)	1.0	1.8	0.5	2.1	---	5.4		208	LINE-TO-LINE VOLTS			PHASE A (KVA)		3
DEMAND FACTOR	1.25	NEC	1.00	1.00	20%	---		15	CONNECTED AMPS			PHASE B (KVA)		1
DESIGN LOAD (KVA)	1.2	NEC	0.5	2.1	1.1	6.7		19	DESIGN AMPS			PHASE C (KVA)		2

<u>MEP SCHEDULE NOTES AND REMARKS</u>	
GENERAL NOTES:	
A. VERIFY/COORDINATE RATINGS FOR EQUIPMENT SUPPLIED BY THE SELECTED MANUFACTURER. WHERE RATINGS ARE OTHER THAN AS REQUIRED FOR SPECIFIED UNIT, DISCONNECTS, MOTOR STARTERS, OVERCURRENT DEVICES AND RELATED REVISIONS SHALL BE PROVIDED ACCORDINGLY. THE CONTRACTOR THAT FURNISHES EQUIPMENT WITH RATINGS OTHER THAN AS NOTED SHALL BE RESPONSIBLE FOR COORDINATION AND COSTS FOR REVISIONS TO ACCOMMODATE SELECTED... B. FRACTIONAL HORSEPOWER SINGLE PHASE MOTORS SHALL BE PROVIDED WITH INTEGRAL OVERLOAD PROTECTION. C. SAFETY SWITCHES SHALL BE FUSIBLE UNLESS NOTED OTHERWISE. PROVIDE FUSES SIZED PER MANUFACTURERS RECOMMENDATIONS. D. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT TO EQUIPMENT AS INDICATED. E. WHERE DISCONNECT IS NOT SHOWN ON PLANS, LOCATE AT EQUIPMENT PER NEC. F. MOTORS RATED 120 VOLT AND LESS THAN 1/3 HP SHALL HAVE 1/51 BRANCH CIRCUIT BREAKER IN PANEL. MOTORS RATED 120 VOLT, 1/3 HP AND LARGER SHALL HAVE 20/1 BRANCH CIRCUIT BREAKER IN PANEL. G. REFER TO SPECIFICATION 23 09 00 FOR ADDITIONAL WIRING REQUIREMENTS. H. REFER TO SPECIFICATIONS FOR SHORT CIRCUIT CURRENT RATING (SCCR) FOR EQUIPMENT.	
REMARKS	
1. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND WIRING TO THERMOSTATS FURNISHED BY MECHANICAL CONTRACTOR. SEE 04M-101 FOR T-STAT LOCATIONS. 2. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND WIRING TO VENTILATOR CONTROLLER FURNISHED BY MECHANICAL CONTRACTOR. SEE 04M-101 FOR LOCATION.	

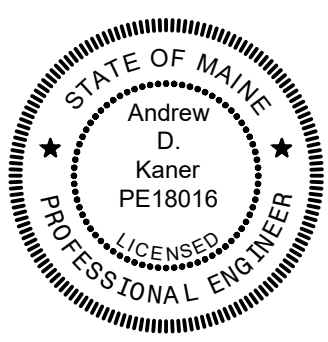
ELECTRICAL EQUIPMENT INSTALLATION SCHEDULE						
BUILDING	AREA DESIGNATION	CONDUIT		RECEPT. & SWITCHES	SAFETY SWITCH, STARTERS, CONTROL STATIONS, ETC.	ENCLOSURES, PULL & J-BOX, WIREWAYS
		MOUNTING	MATERIAL	MOUNTING	TYPE	TYPE
EFFLUENT TREATMENT BUILDING	DAMP	SURFACE	RGS	SURFACE	NEMA 4	NEMA 4
LOWER PAVILION	WET	SURFACE	RGS	SURFACE	NEMA 4	NEMA 4
UPPER PAVILION	WET	SURFACE	RGS	SURFACE	NEMA 4	NEMA 4

GENERAL NOTES:

1. REFER TO 06E-101 FOR STORAGE BUILDING PANEL LP1 SCHEDULE.

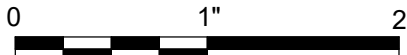


<b>PROJECT MANAGER</b>	ANDREW GURSKI
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<b>PROJECT NUMBER</b>	10357686



# IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

# ELECTRICAL SCHEDULES 1

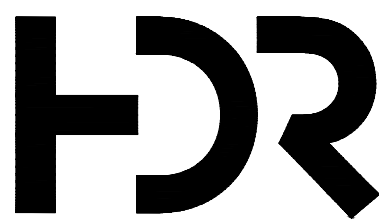
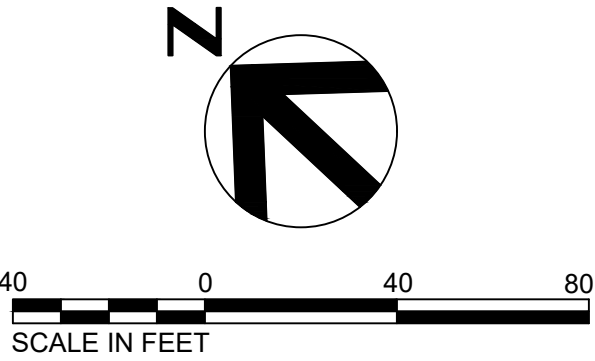
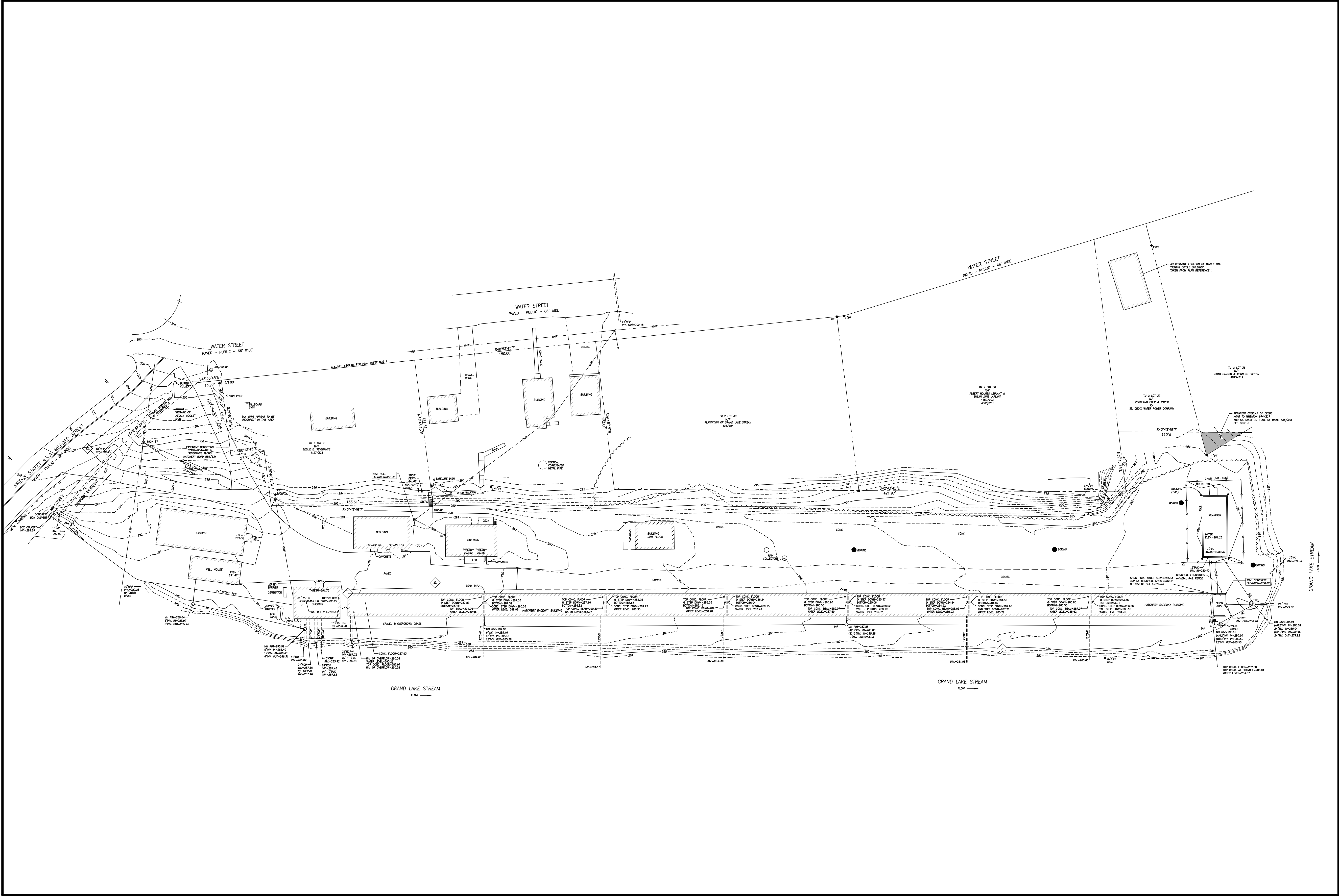


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**00E-651**



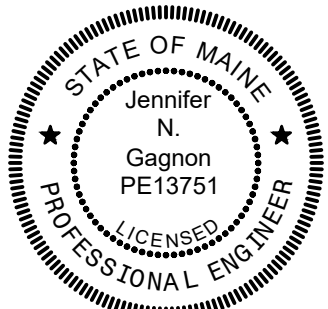


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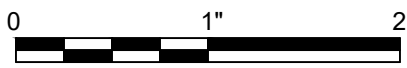
05/03/2024		ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

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

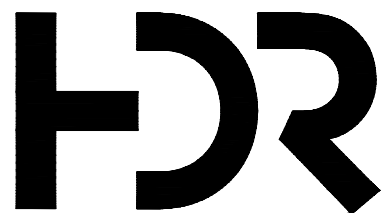
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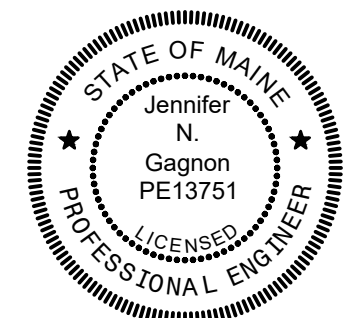
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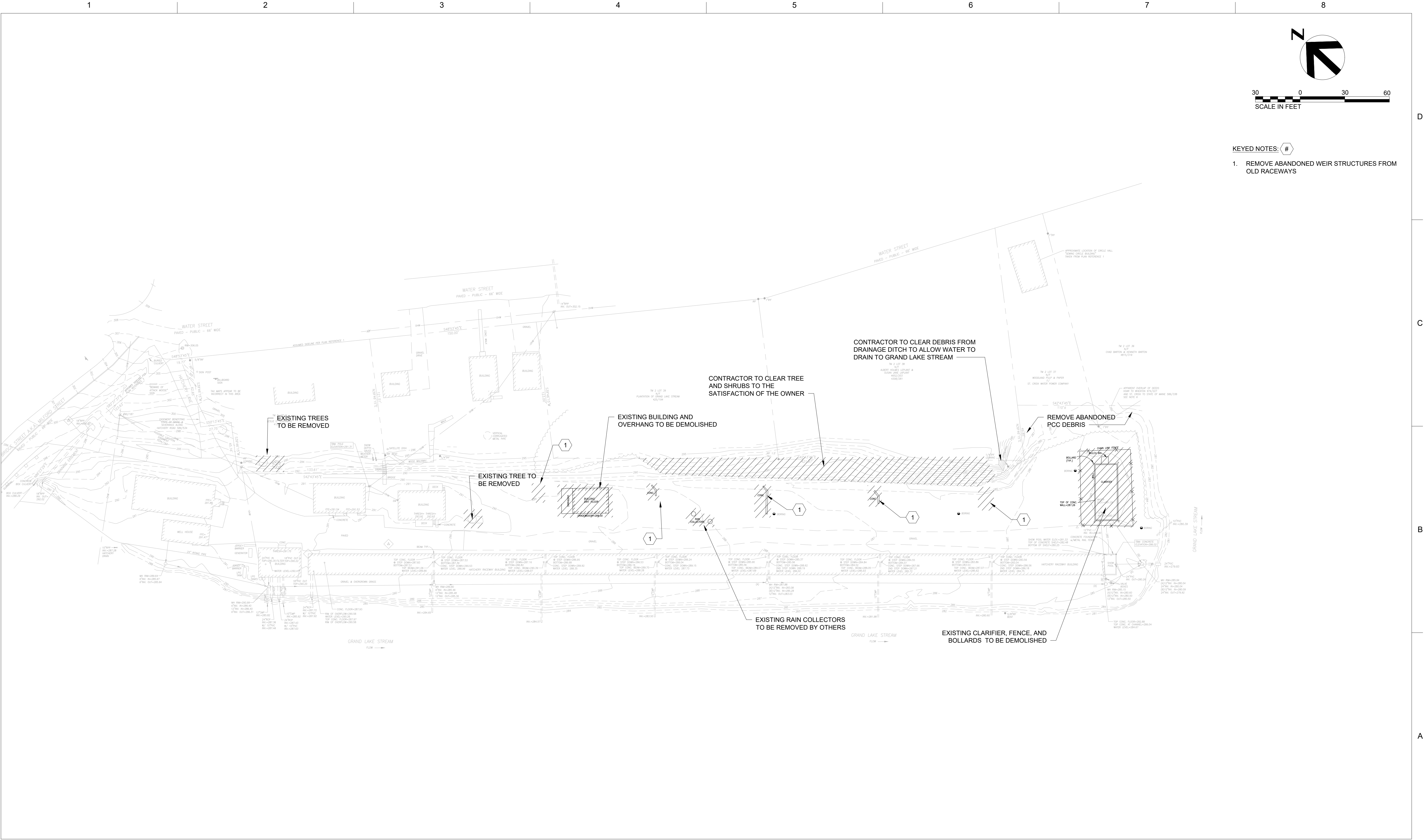
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

EXISTING SITE DEMOLITION PLAN



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SCALE | 1"=30'

SHEET  
01C-101



KEYED NOTES: #

- 1. REMOVE ABANDONED WEIR STRUCTURES FROM OLD RACEWAYS

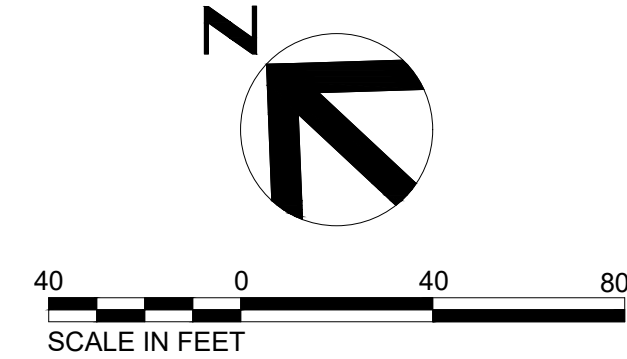




REFERENCE COORDINATE SYSTEM

PROJECTION - MAINE STATE PLANE  
DATUM - NAD83  
ZONE - EAST  
UNITS - U.S. SURVEY FEET

VERTICAL DATUM IS REFERENCED TO NAVD 88.



EROSION AND SEDIMENTATION CONTROL NOTES:

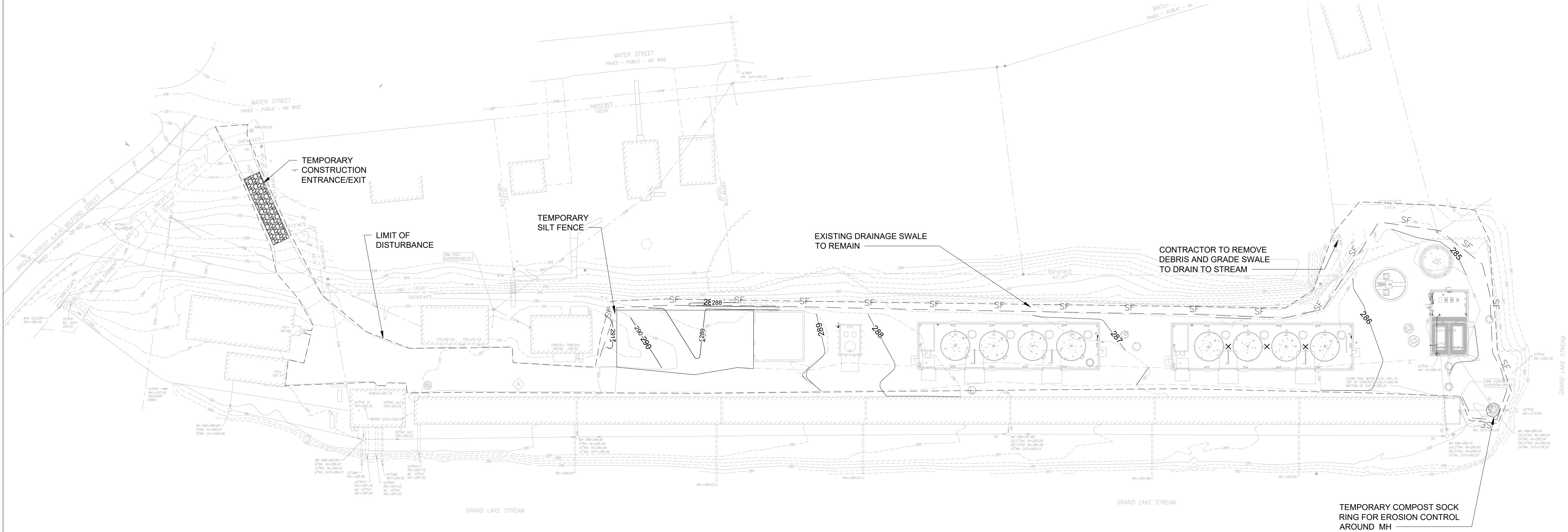
1. FOR GENERAL NOTES, SEE 00G-004.
2. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING, AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED E&S PLAN MUST BE AVAILABLE AT THE PROPOSED PROJECT SITE AT ALL TIMES. THE MDEP SHALL BE NOTIFIED OF ANY 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.
3. 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.
4. 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.
5. 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 DIGSAFE BEFORE STARTING CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL REQUIRE THAT DIGSMART SCAN FOR BURRIED UTILITIES BEFORE ANY EXCAVATION IS PERFORMED.
6. 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 CONSTRUCTION ENTRANCE AT CONSTRUCTION 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.
7. PERFORM MAINTENANCE AT EXISTING CULVERTS, REMOVING ACCUMULATED SEDIMENT IN EXISTING DITCHES AND DRAINAGE AS INDICATED ON EROSION AND SEDIMENT CONTROL PLANS.
8. FOR ALL EXISTING ACCESS ROADS, MEASURES SHALL BE TAKEN TO MAINTAIN COVER ON EXISTING SURFACES, AND KEEPING PUBLIC ROADS CLEAR FROM DEBRIS.
9. 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.
10. 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.

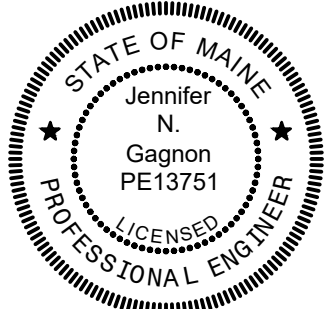
11. INSTALL SILT FENCE WITHIN THE LOD PRIOR TO FILL.
12. AFTER CONSTRUCTION IS COMPLETED, REGRADE THE EXISTING GRAVEL SURFACES, IF NEEDED.
13. REMOVAL OF TEMPORARY SILT FENCING CAN OCCUR FOLLOWING SITE CLEANUP OF THE GRAVEL AND PAVED AREAS. STABILIZE ANY DISTURBANCES ASSOCIATED WITH THE REMOVAL OF THE BMPS, USING GRAVEL OR CRUSHED STONE.
14. 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 MDEP-APPROVED SITE WITH AN APPROVED E&S.
15. 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.
16. THERE IS A DRAINAGE EASEMENT AGREEMENT WITH ABUTTERS FOR STORMWATER FLOW, ACCESS, AND MAINTENANCE.

PREVENTION OF INVASIVES

1. 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 PCNS SHOULD EXPLAIN THE REASON FOR USING NON-NATIVE SPECIES OR CULTIVARS.
2. 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.
3. 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.
4. 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.

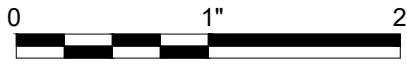


PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER 10357686	



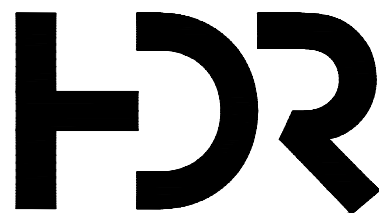
IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

EROSION CONTROL PLAN

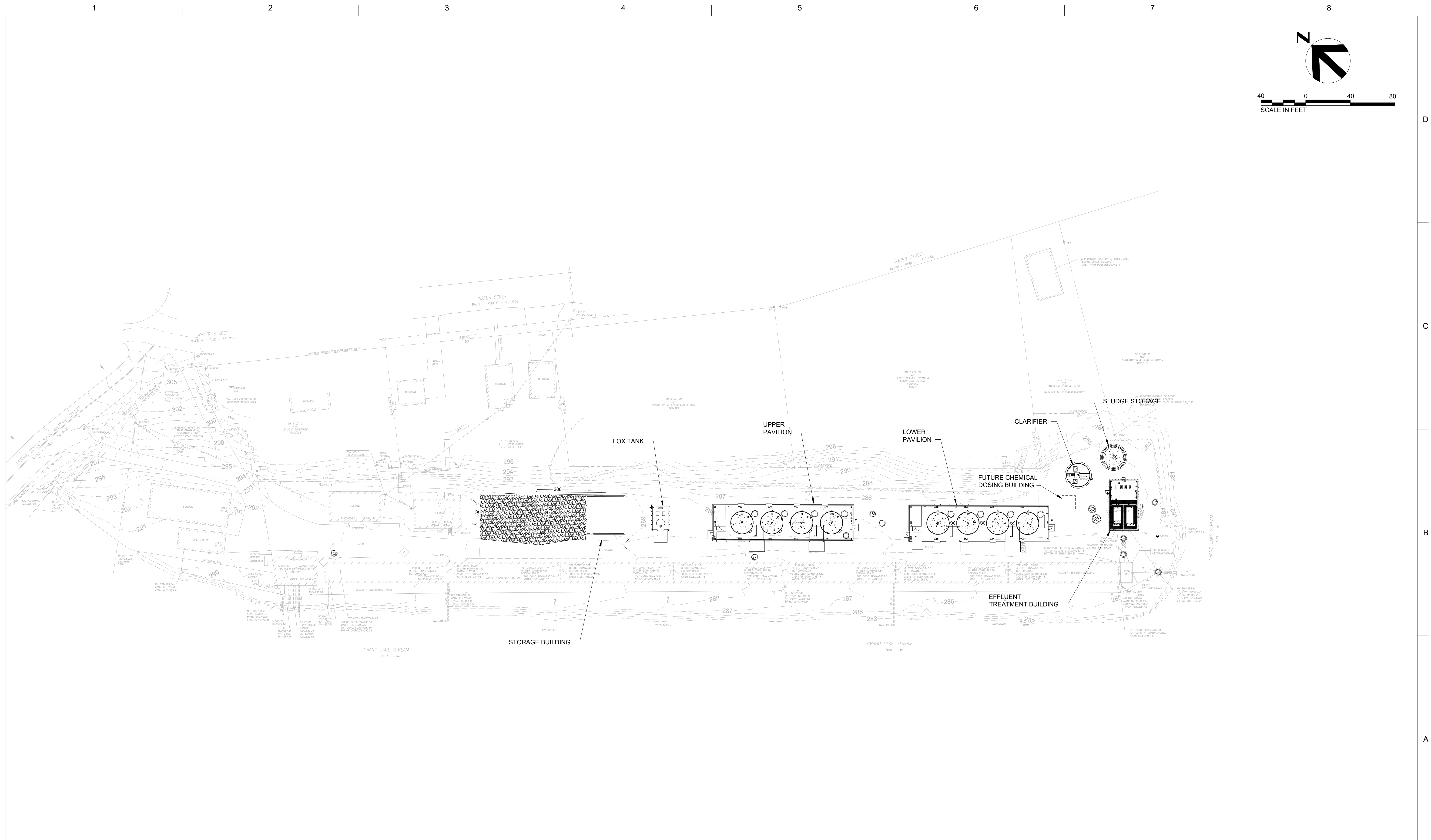


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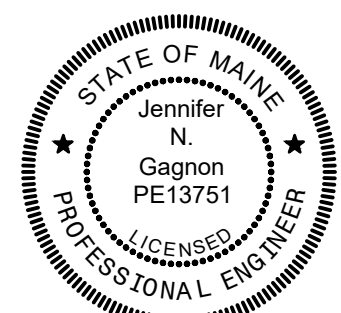
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ISSUE	DATE	DESCRIPTION

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<b>PROJECT MANAGER</b>	ANDREW GURSKI
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<b>ARCHITECTURAL</b>	M. BASKIN
<b>PROCESS</b>	J. CHANDLER
<b>MECHANICAL</b>	J. CHANDLER
<b>ELECTRICAL</b>	A. KANER
<b>PROJECT NUMBER</b>	10357686



## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

## OVERALL SITE PLAN

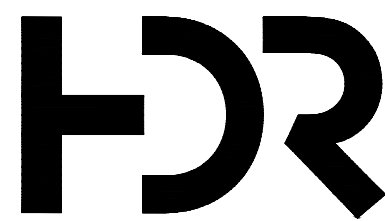
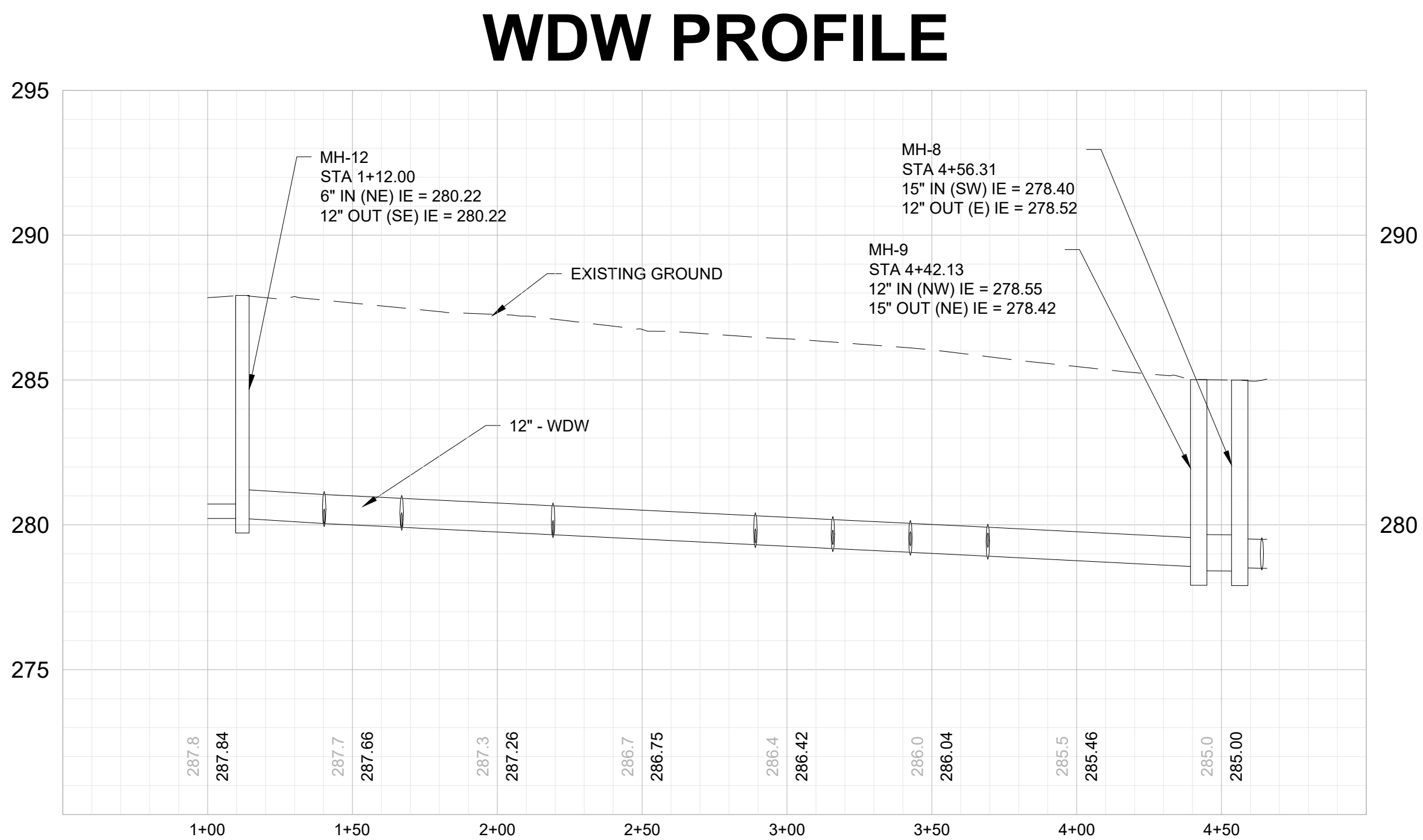
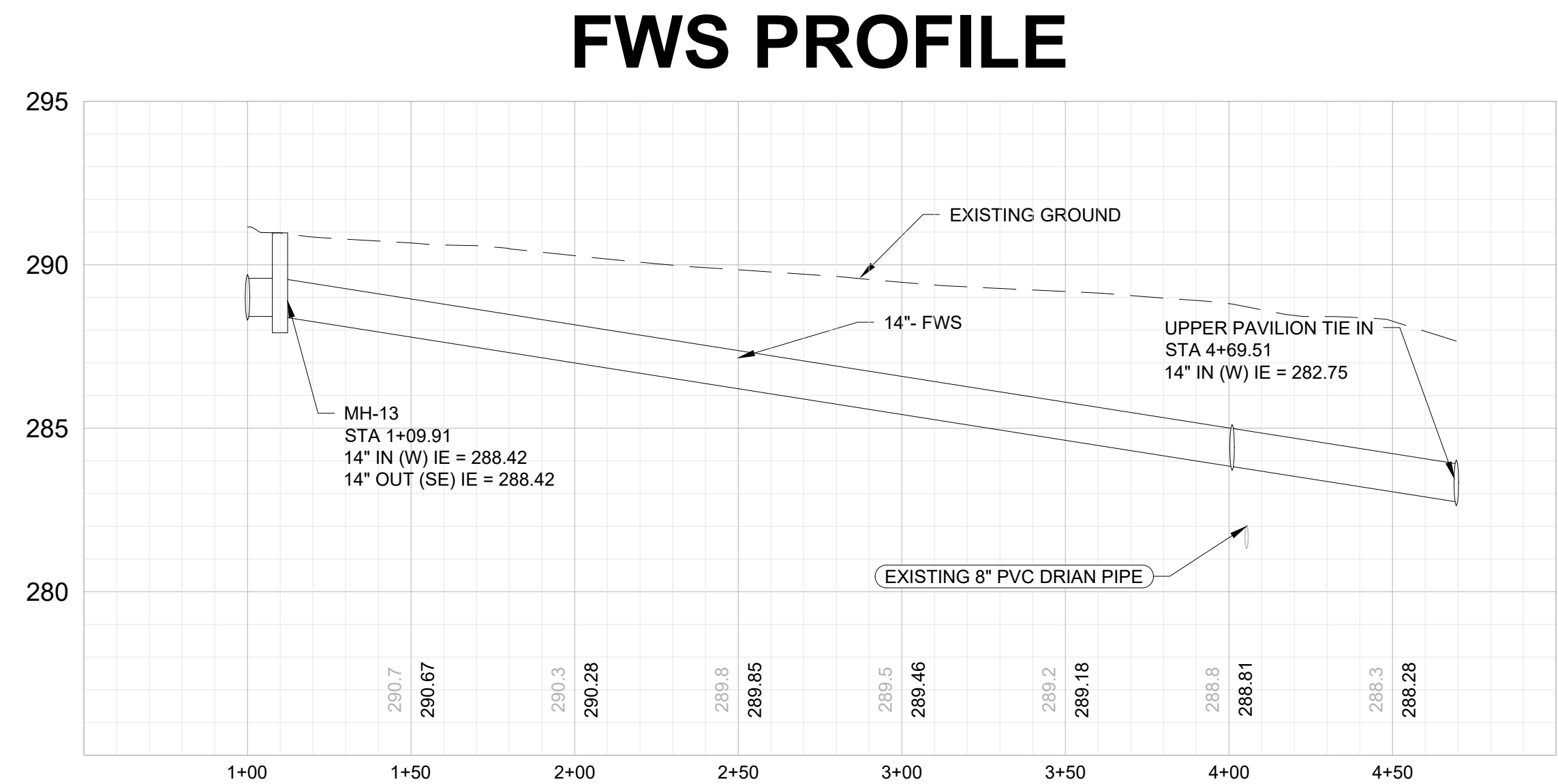
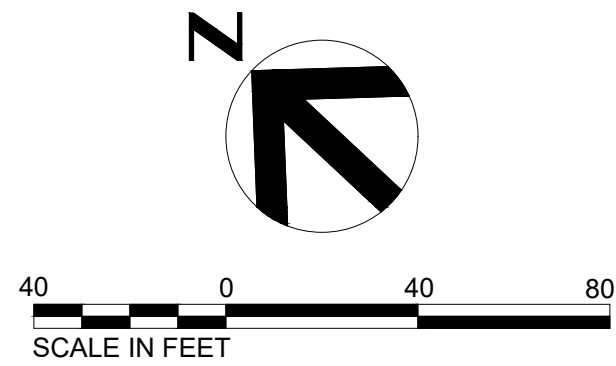
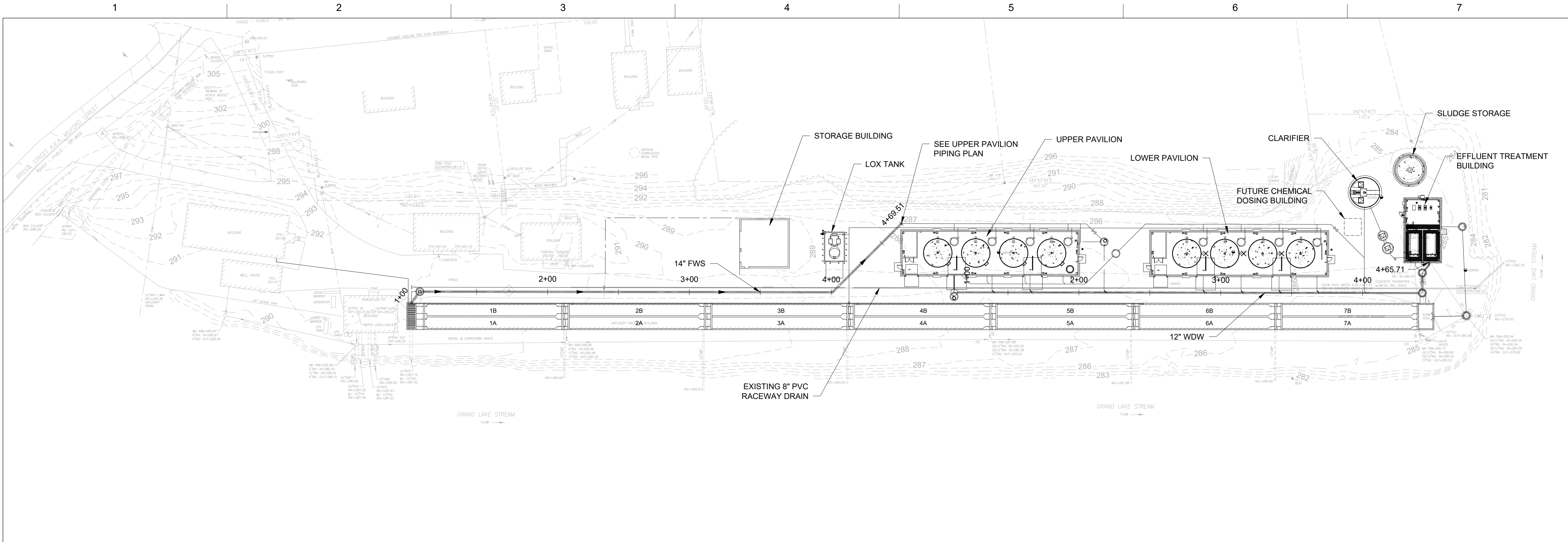


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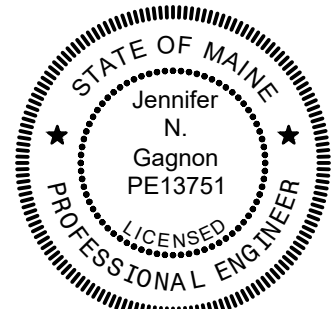
**01C-111**





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



## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

### PLAN AND PROFILE - FWS & WDW

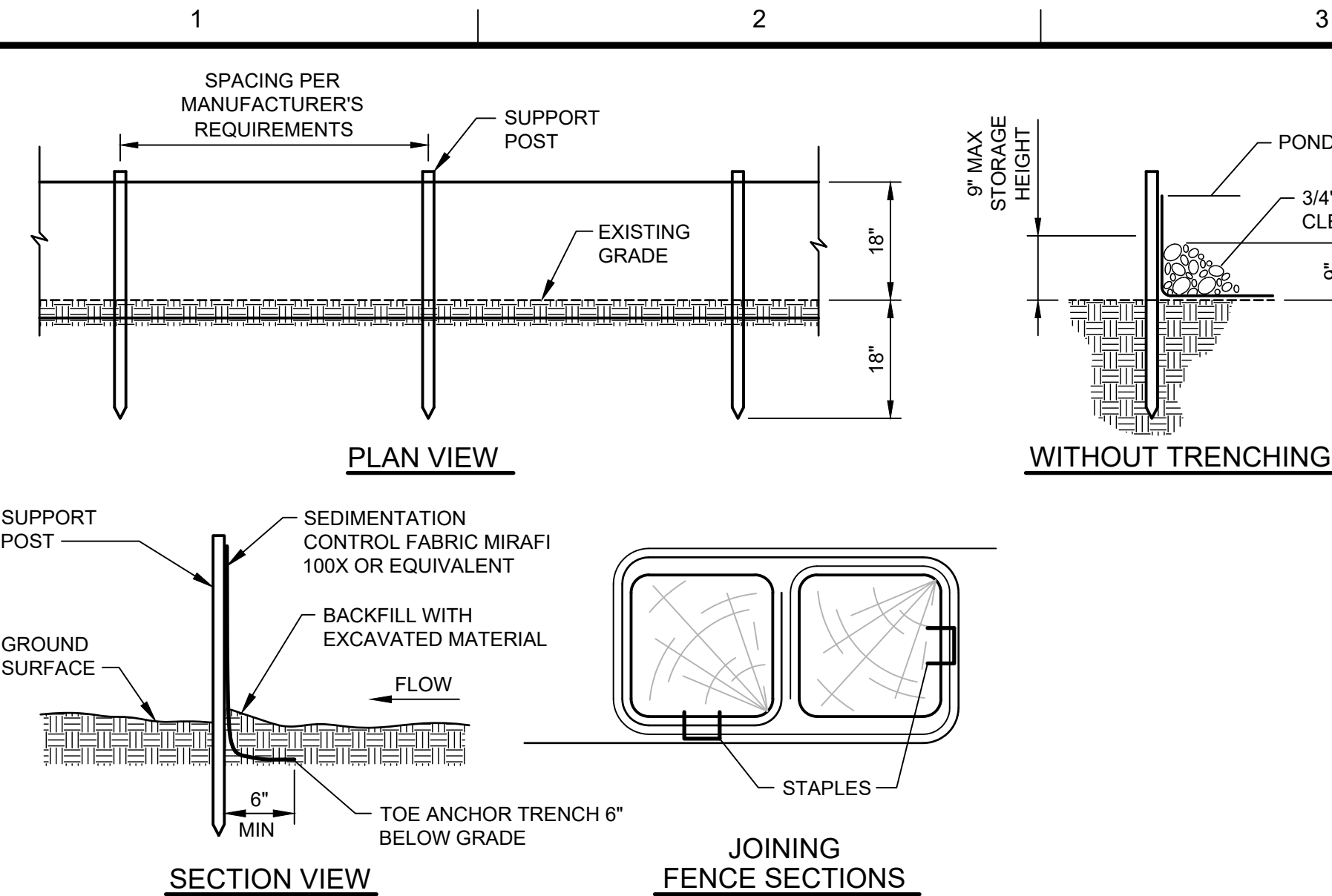


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**01C-201**



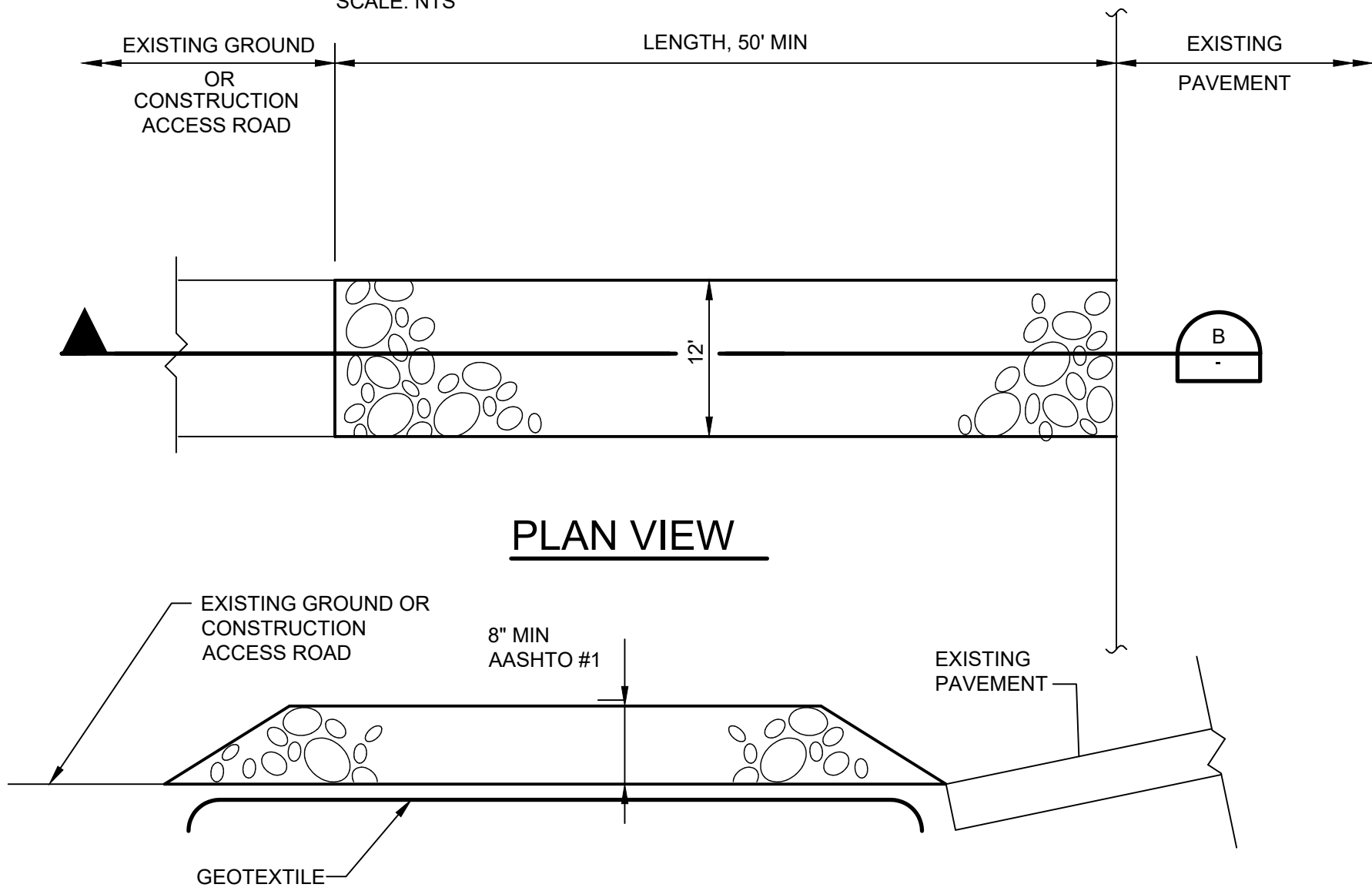
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- NOTES:
- FABRIC SHALL MEET/EXCEED PROPERTIES IN MDEP BMP.
  - STAKES SHALL BE HARDWOOD OR STEEL EQUIVALENT.
  - SILT FENCE SHALL BE PLACED ON LEVEL EXISTING GRADE WITH BOTH ENDS OF THE FENCE RUN UPSLOPE 8 FEET AT 45 DEGREES TO PREVENT FLOW RUN-AROUND.
  - REMOVE SEDIMENT WHEN ACCUMULATIONS ARE HALF THE ABOVE-GROUND HEIGHT OF THE FENCE.

### SILT FENCE DETAIL

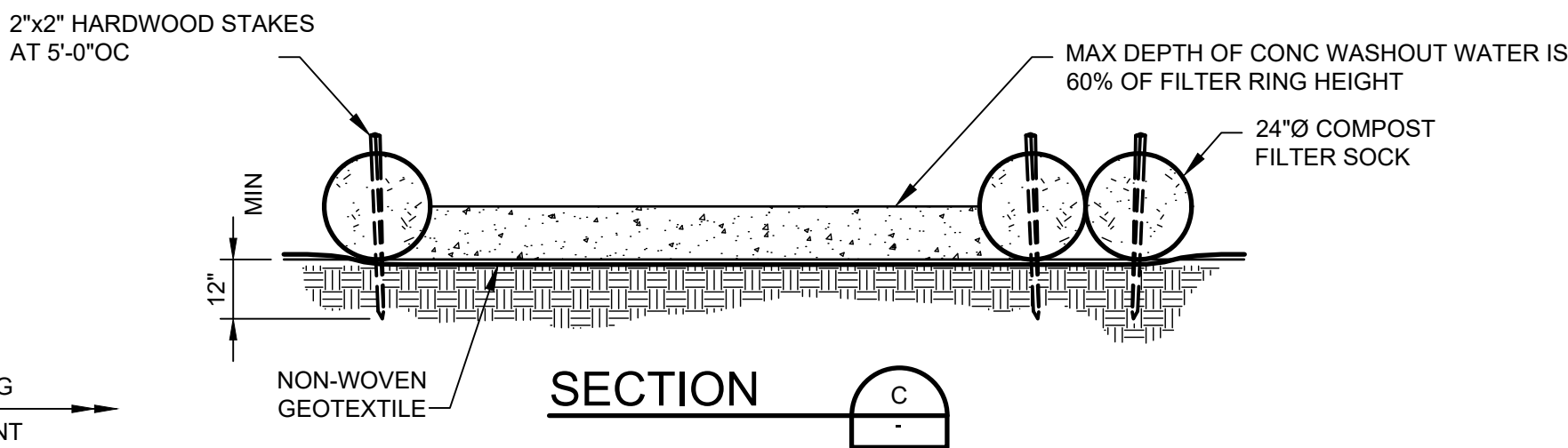
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- NOTES:
- AGGREGATE: AGGREGATE SUBBASE
  - AGGREGATE THICKNESS: NOT LESS THAN 6 INCHES OF AASHTO #1.
  - WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
  - LENGTH: AS REQUIRED, BUT NOT LESS THAN 50 FEET. GEOTEXTILE: MIRAFI 600X, 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.
  - 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 SPILLED, DROPPED, WASHED, OR TRACKED ONTO TMI ACCESS ROAD SHALL BE REMOVED IMMEDIATELY.
  - A STOCKPILE OF AASHTO #1 STONE SHALL BE MAINTAINED NEARBY FOR USE.
  - IF EXCESS SEDIMENT IS BEING DEPOSITED ON TMI ACCESS ROAD, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE OR ADD WASH RACK.

### ROCK CONSTRUCTION ENTRANCE

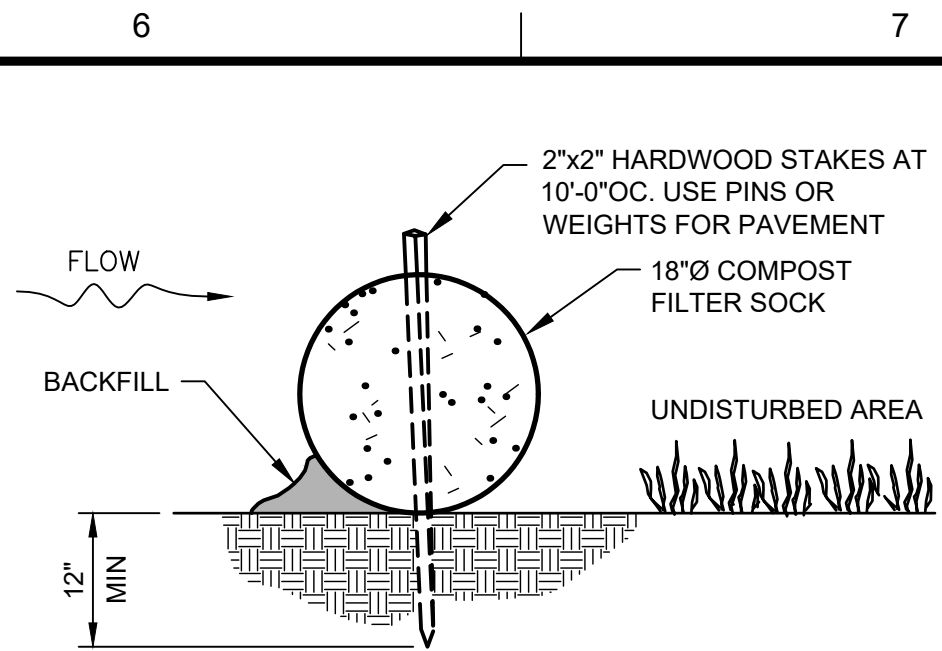
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### TYPICAL COMPOST SOCK CONCRETE WASHOUT RING

SCALE: NTS

- NOTES:
- IF NEEDED, INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
  - NON-WOVEN GEOTEXTILE SHALL MEET THE FOLLOWING EQUIVALENT REQUIREMENTS:  
PHYSICAL PROPERTY (TEST METHOD) WITH MINIMUM PERMISSIBLE VALUE  
GRAB TENSILE STRENGTH (ASTM D 4632) - 120 POUNDS  
GRAB TENSILE ELONGATION (ASTM D 4632) - 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 (500 HOURS) (ASTM D 4355) - 70% STRENGTH RETENTION
  - 18"Ø FILTER SOCK MAY BE STACKED ONTO DOUBLE 24"Ø SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.



### COMPOST FILTER SOCK

SCALE: NTS

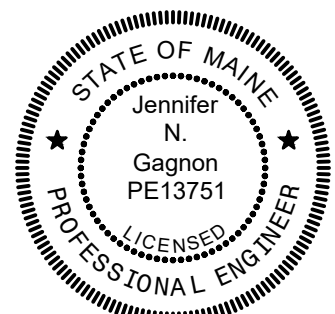
NOTES:

- MATERIAL TO BE MULTI-FILAMENT POLYPROPYLENE.
- COMPOST FILTER SOCK SHALL BE PLACED ALONG THE BOUNDARY OF ANY TEMPORARY STOCKPILES A MINIMUM OF 4 DAYS AFTER CESSATION OF ACTIVITY.
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
- SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- SOCKS SHALL BE REPLACED AFTER TWELVE MONTHS OF USE.
- UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES AND SOCK SHALL BE REMOVED.



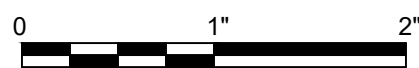
05/03/2024	ISSUED FOR BID	
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PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



### IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

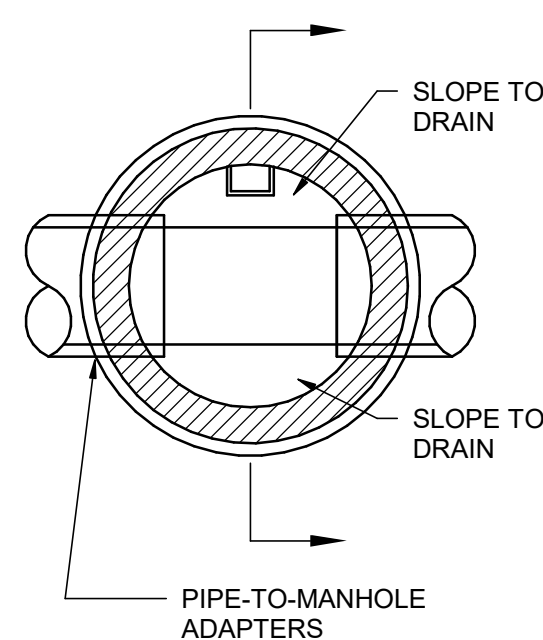
### EROSION CONTROL DETAILS



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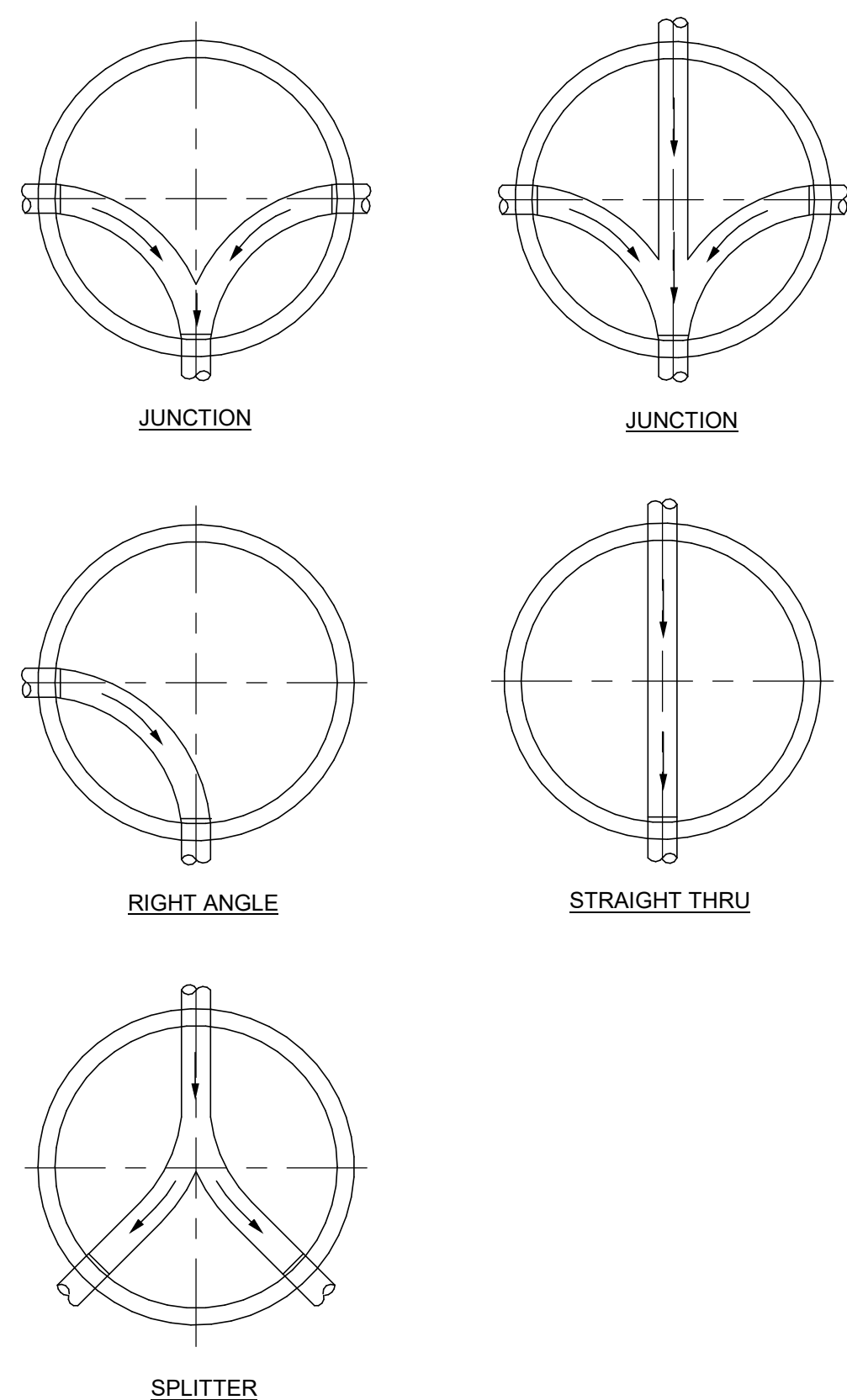
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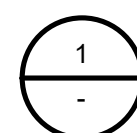
MANHOLE NOTES:

1. CORREL 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 TO BE SHAPED TO FOLLOW CURVES, CROSSES, CONVERGING & DIVERGING WYES AND TEES DEPENDING ON THE PIPING PROPOSED. FORM TROUGHS TO THE O.D. OF PIPE-TO-MANHOLE ADAPTERS.

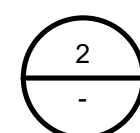


NOTES:

- 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.



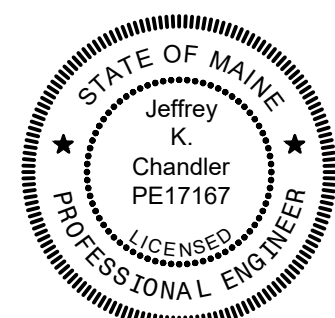
## MANHOLE DETAIL

$$12'' = 1'-0''$$


## MANHOLE BOTTOM

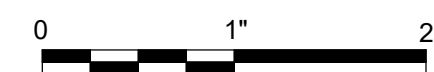
$$12'' = 1'-0''$$

			<b>PROJECT MANAGER</b>	ANDREW GURSKI
			CIVIL	J. GAGNON
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			PROCESS	J. CHANDLER
			MECHANICAL	J. CHANDLER
			ELECTRICAL	A. KANER
05/03/2014 ISSUED FOR BID				
<b>ISSUE</b>	<b>DATE</b>	<b>DESCRIPTION</b>	<b>PROJECT NUMBER</b>	10357686



## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

## STANDARD PIPING DETAILS

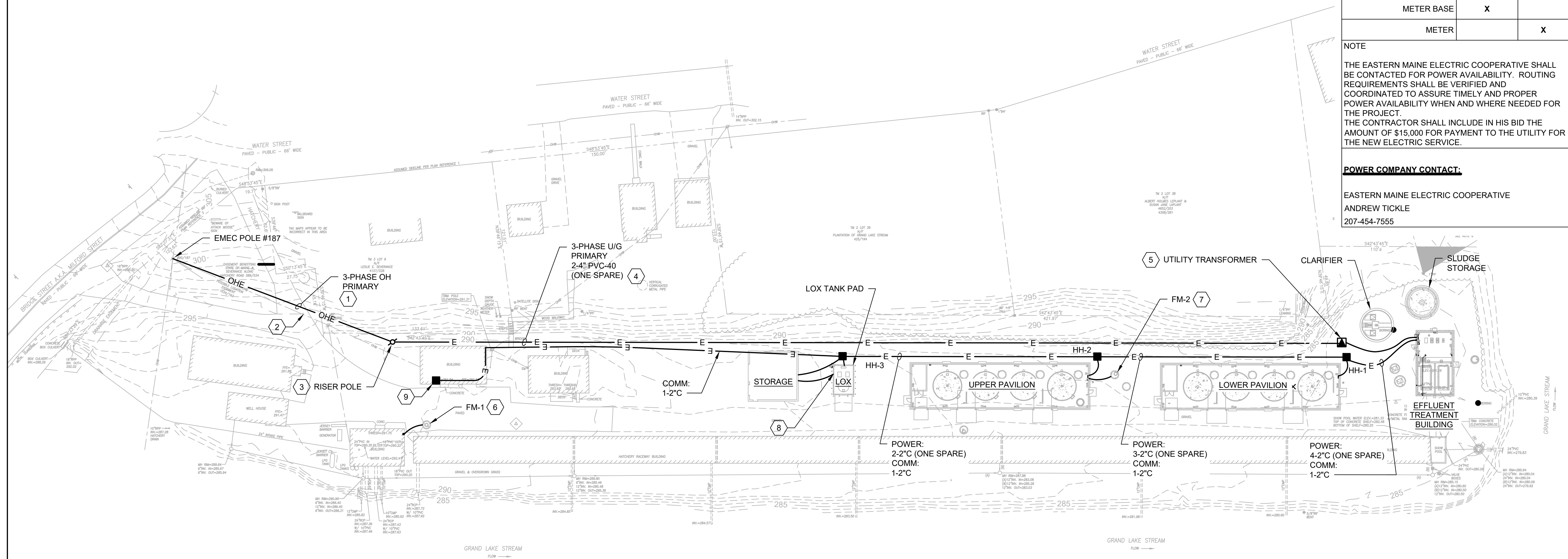


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<b>SCALE</b>	12" = 1'-0"

**SCALE** | 12" = 1'-0"

| SHEET

**01D-501**



INCOMING ELECTRIC SERVICE DIVISION OF RESPONSIBILITY		
	CONTRACTOR	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

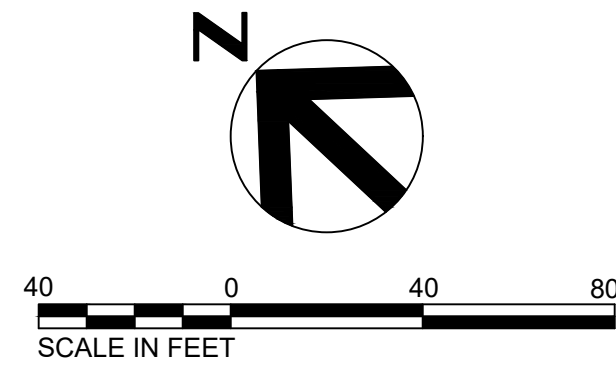
NOTE

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:**

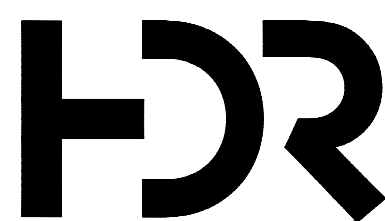
EASTERN MAINE ELECTRIC COOPERATIVE  
ANDREW TICKLE  
207-454-7555



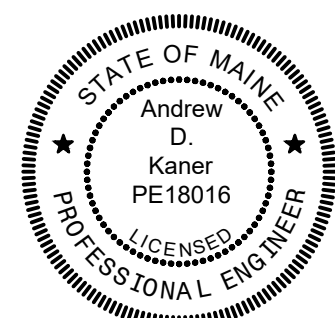
- GENERAL NOTES:**
1. REFER TO 00E601 FOR CONDUIT AND WIRE DETAILS.
  2. UNDERGROUND CONDUITS SHALL BE ROUTED IN PVC CONDUIT BURIED IN EARTH. REFER TO 00E501 FOR TRENCH SECTION DETAILS.
  3. COORDINATE SITE DUCT BANK ROUTINGS WITH SITE UTILITIES (I.E. PIPING) AND PHYSICAL SITE TO AVOID CONFLICT.
  4. SPARE CONDUITS SHALL BE EQUIPPED WITH PULL CORD AND CAPPED AT EACH END. LABEL EACH END OF CONDUIT WITH SOURCE.
  5. PROVIDE SEPARATE HANDHOLES FOR POWER AND COMM. ONE SHOWN FOR CLARITY.

KEYED NOTES:  #

1. NEW 3-PHASE OH SPAN BY UTILITY COMPANY.
2. 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.
3. 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.
4. INSTALL PRIMARY CONDUIT PER UTILITY COMPANY REQUIREMENTS. CONDUIT TO BE 48" DEEP WITH SAND BEDDING AND SCREENED BACKFILL. PROVIDE CABLE PULL STRING.
5. INSTALL TRANSFORMER VAULT PER UTILITY COMPANY REQUIREMENTS INCLUDING GROUND RING. CABLE TERMINATIONS ARE BY UTILITY.
6. 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.
7. 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.
8. PROVIDE TWO 3/4" FROM STORAGE BUILDING PANEL LP1 TO OXYGEN TANK FOR LIGHT AND RECEPTACLE. SEE 05E-101 FOR DETAILS.
9. 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.

[illegible]

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



## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

## OVERALL ELECTRICAL SITE PLAN



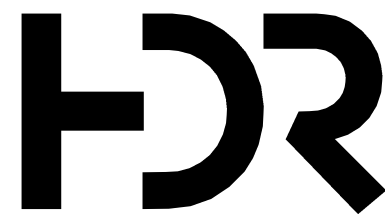
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<b>SCALE</b>	1"=40'	<b>01E-101</b>





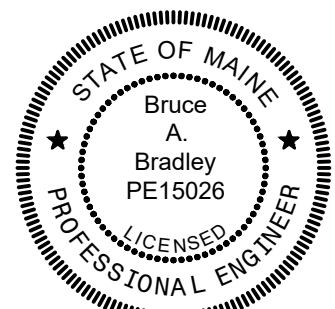


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ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

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

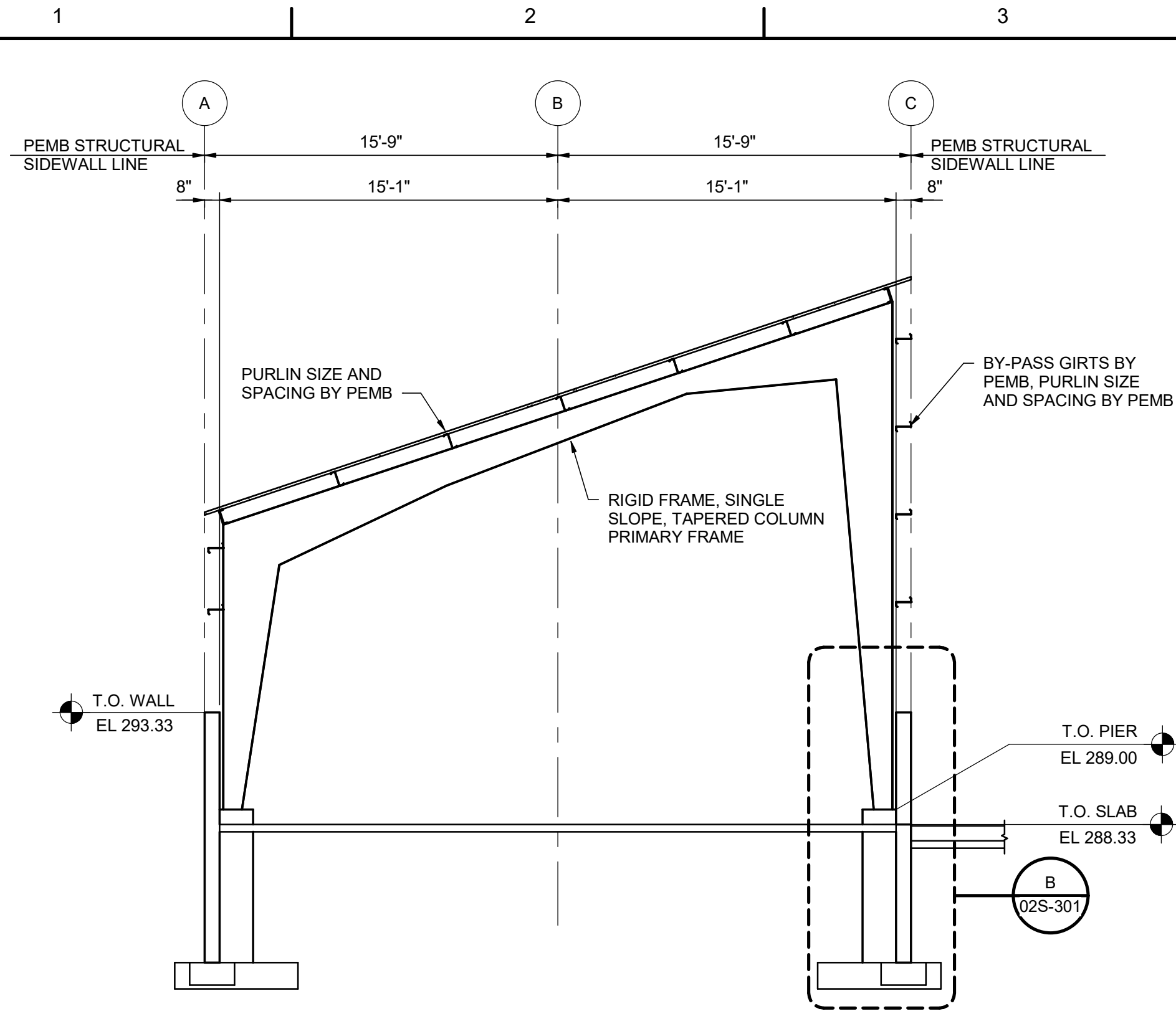


IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

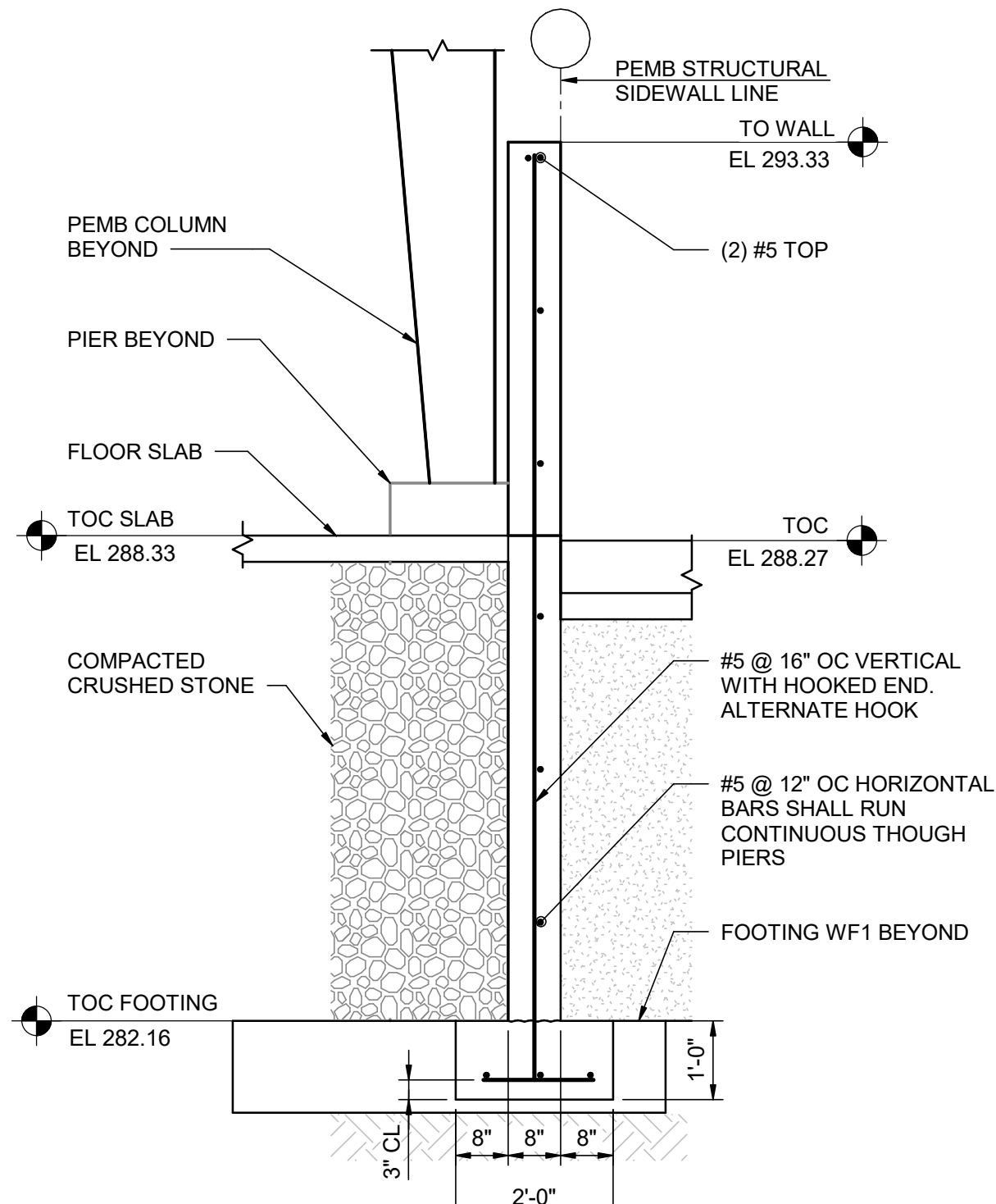


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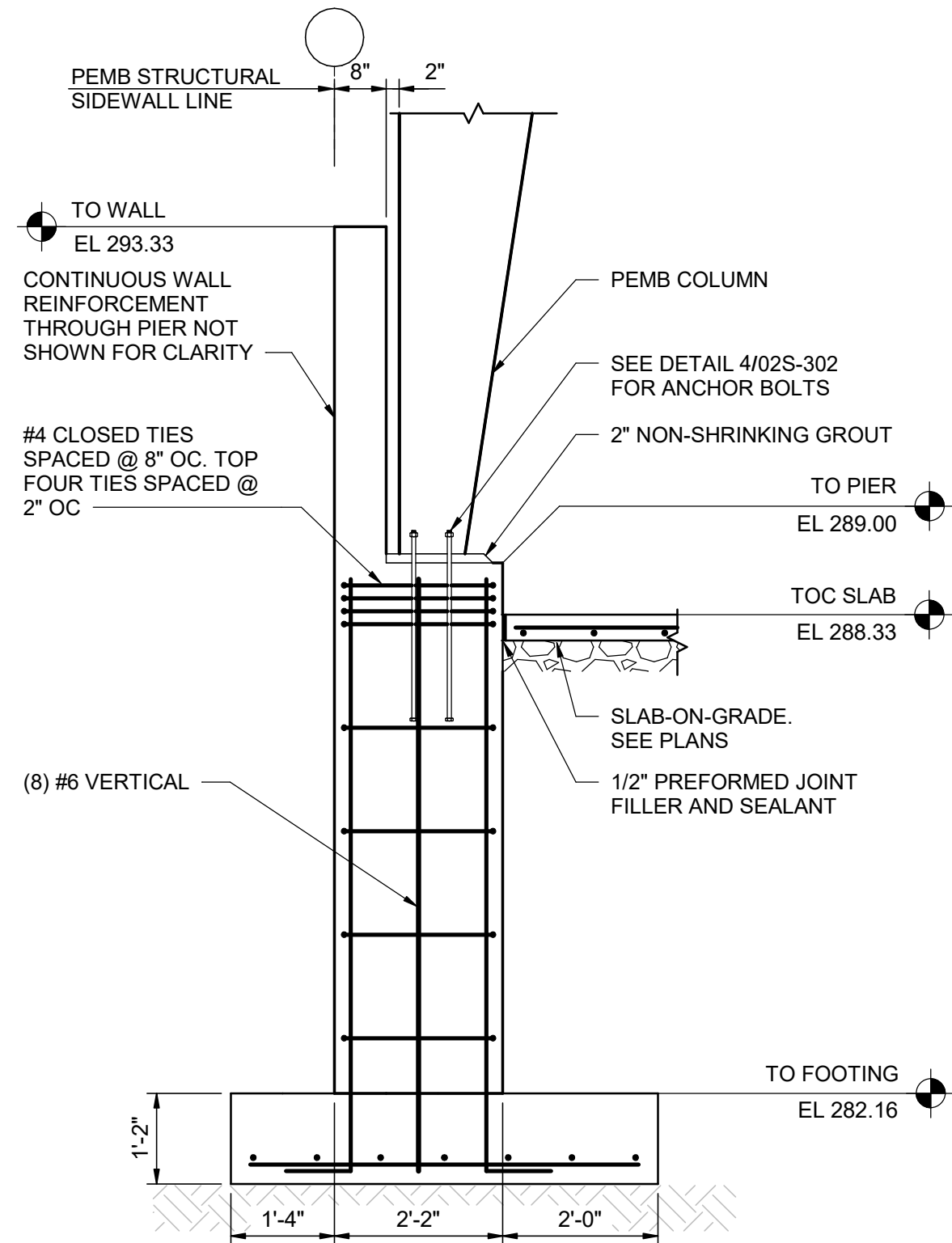
SHEET
02S-301



**A PEMB SCHEMATIC SECTION**  
02S-101 3/16" = 1'-0"

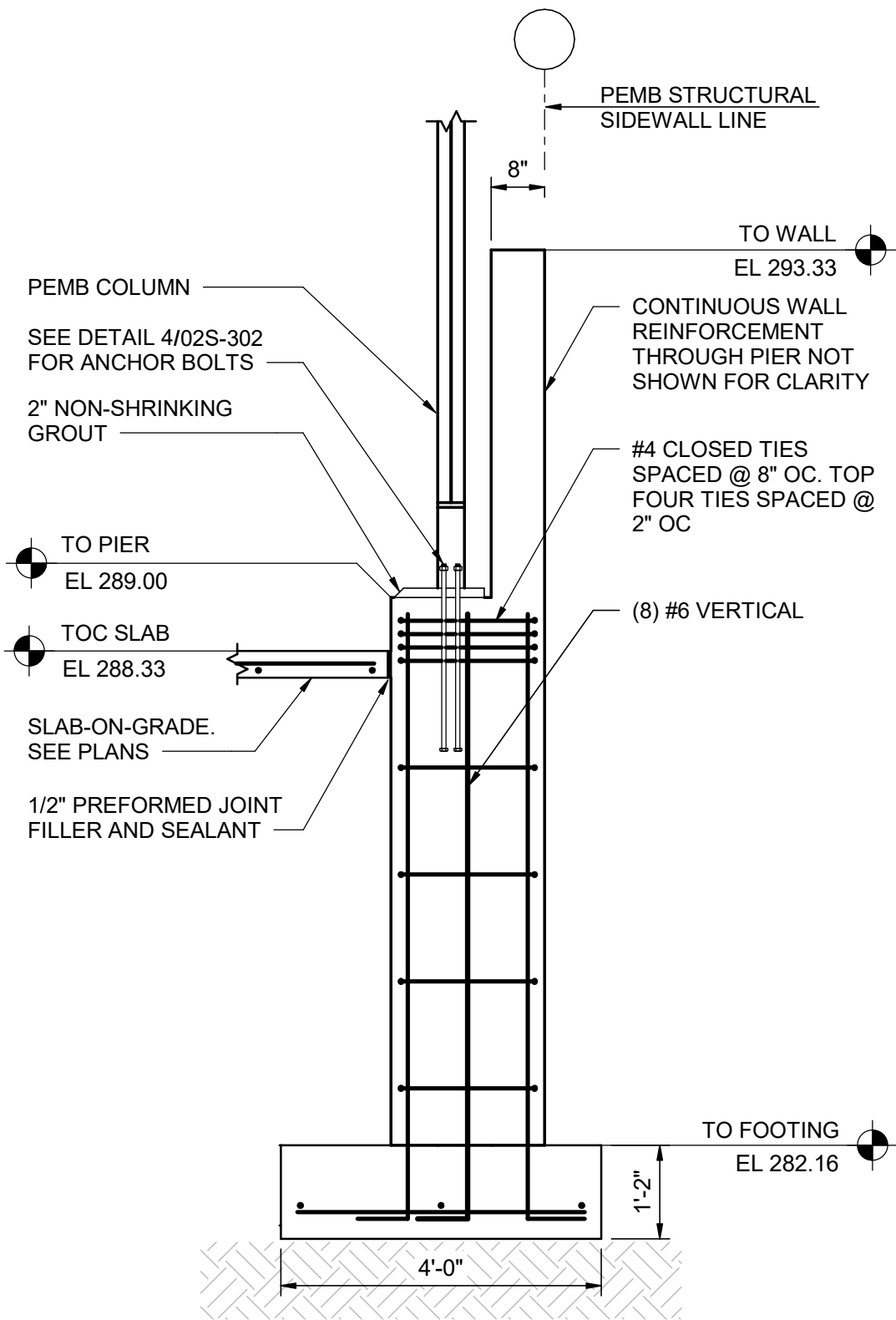


**B SECTION**  
02S-301 1/2" = 1'-0"

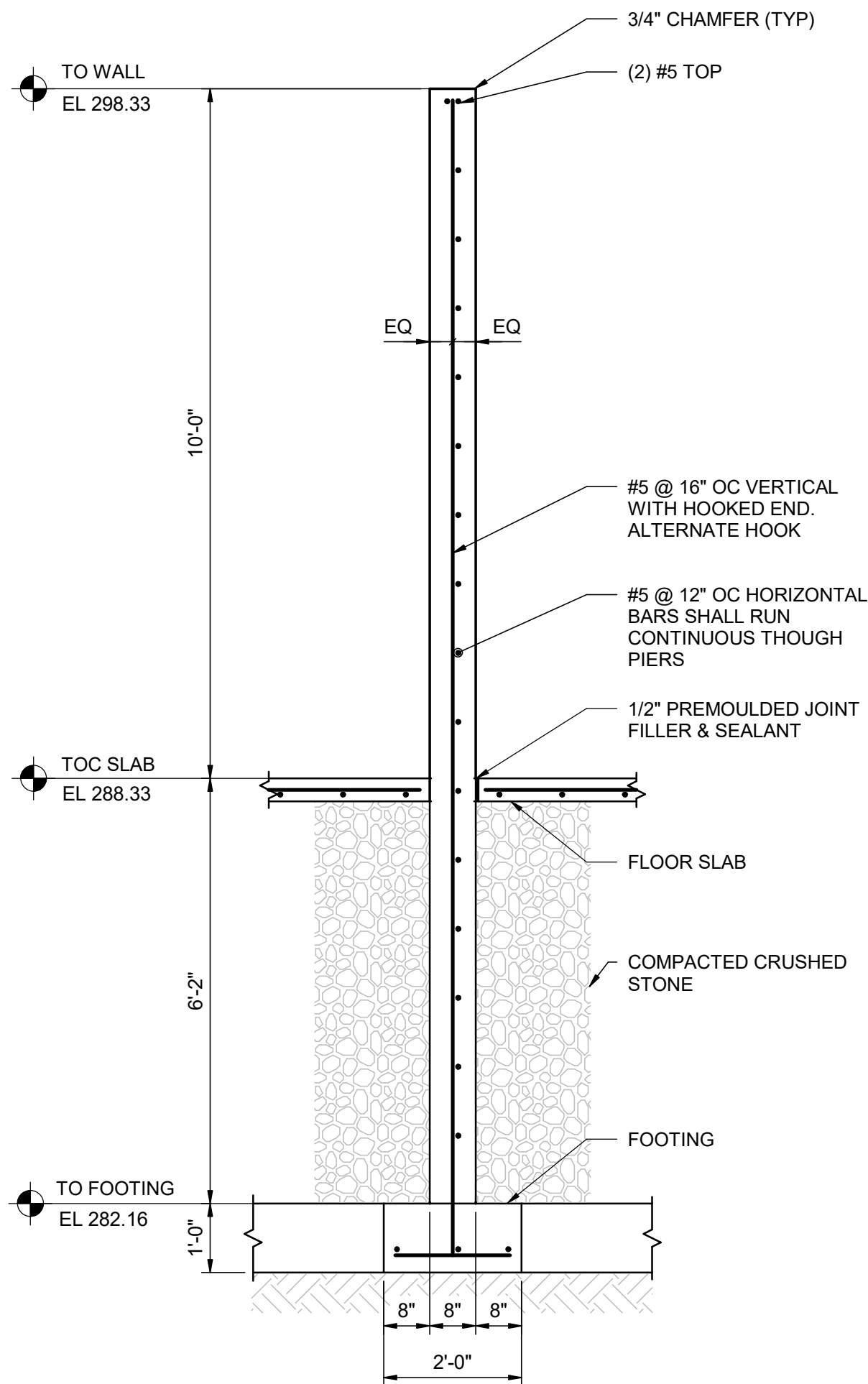


NOTE:  
CAST WALL SECTION INTEGRAL WITH PIER. TYPICAL  
AT ALL PIER LOCATIONS.

**C PIER AT WALL SECTION**  
02S-101 1/2" = 1'-0"

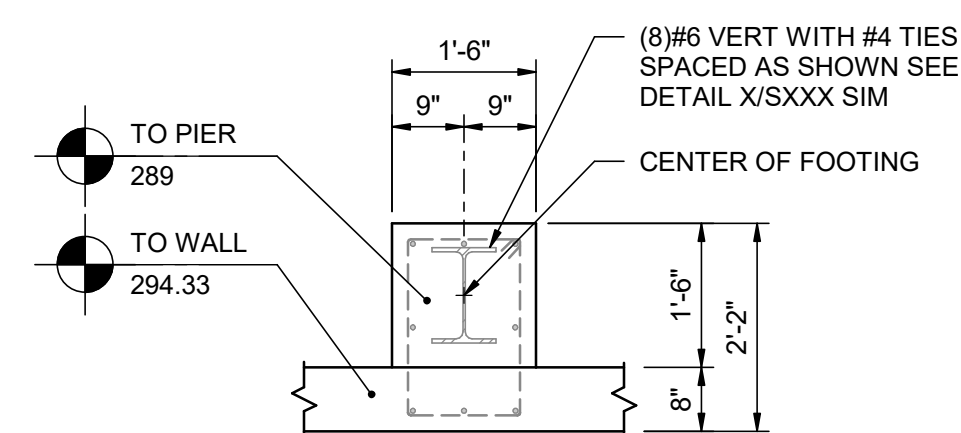


**D PIER AT CORNER WALL SECTION**  
02S-101 1/2" = 1'-0"



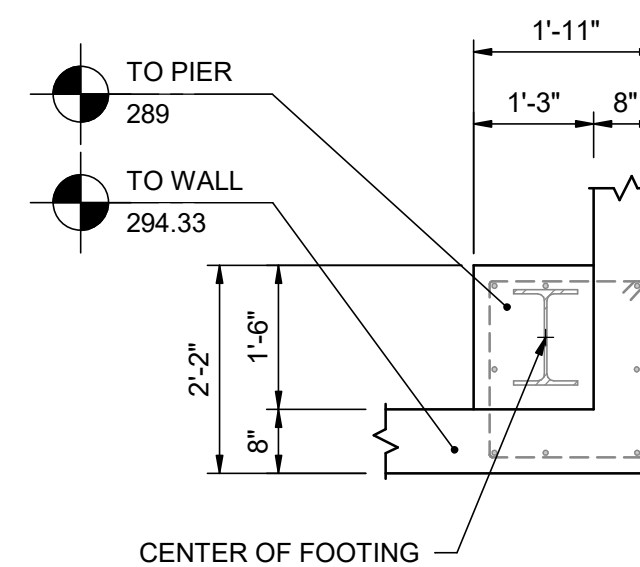
**E WALL SECTION**  
02S-101 1/2" = 1'-0"

UPPER PAVILION  
SECTIONS

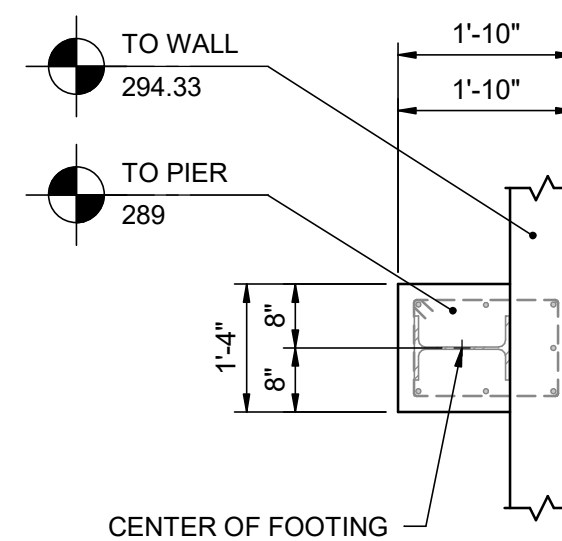


NOTE:  
VERIFY PIER SIZE ADEQUACY WITH MBM PRIOR  
TO FORMING OR CASTING CONCRETE.

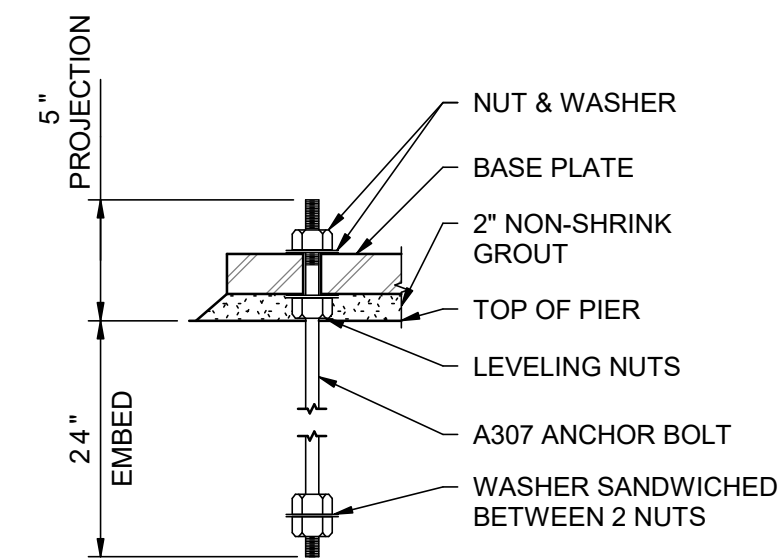
1 PIER TYPE P1  
1/2" = 1'-0"



PIER TYPE P2  
1/2" = 1'-0"

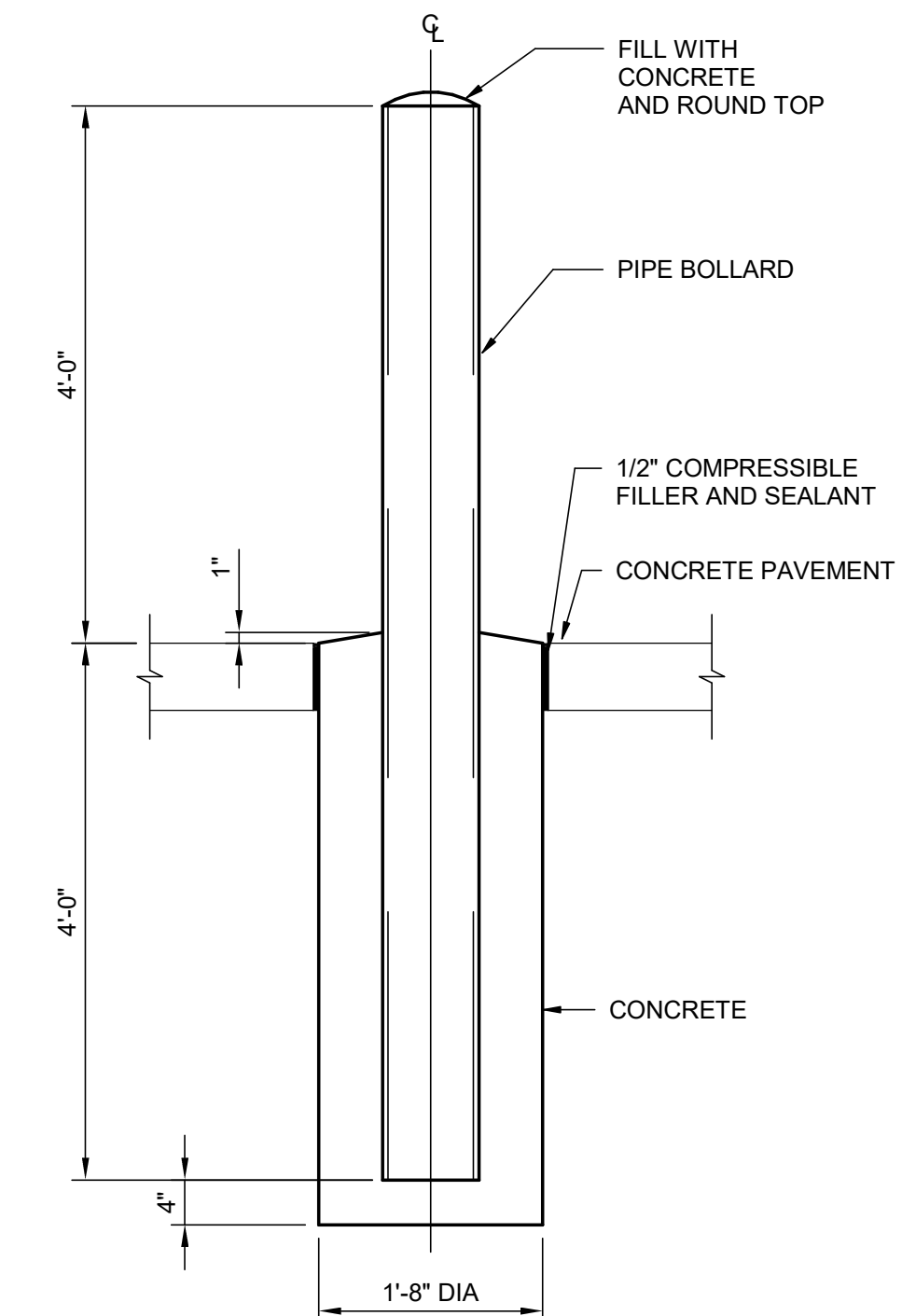


PIER TYPE P3



NOTE:  
ANCHOR BOLTS PROVIDED AND INSTALLED BY  
GENERAL CONTRACTOR (GC.) ANCHOR BOLT  
SIZES SPECIFIED BY PEMB.

4 ANCHOR BOLT DETAIL  
02S-101 NOT TO SCALE

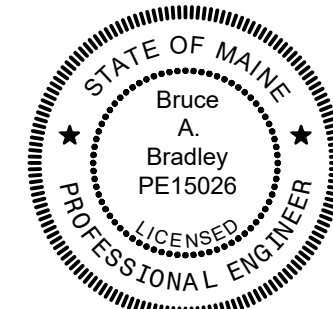


NOTE:  
1. REINFORCING FOR CONCRETE SLAB NOT SHOWN.

5 BOLLARD  
- NOT TO SCALE

[illegible]

<b>PROJECT MANAGER</b>	ANDREW GURSKI
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PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
<b>PROJECT NUMBER</b>	10357686



## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

## UPPER PAVILION DETAILS



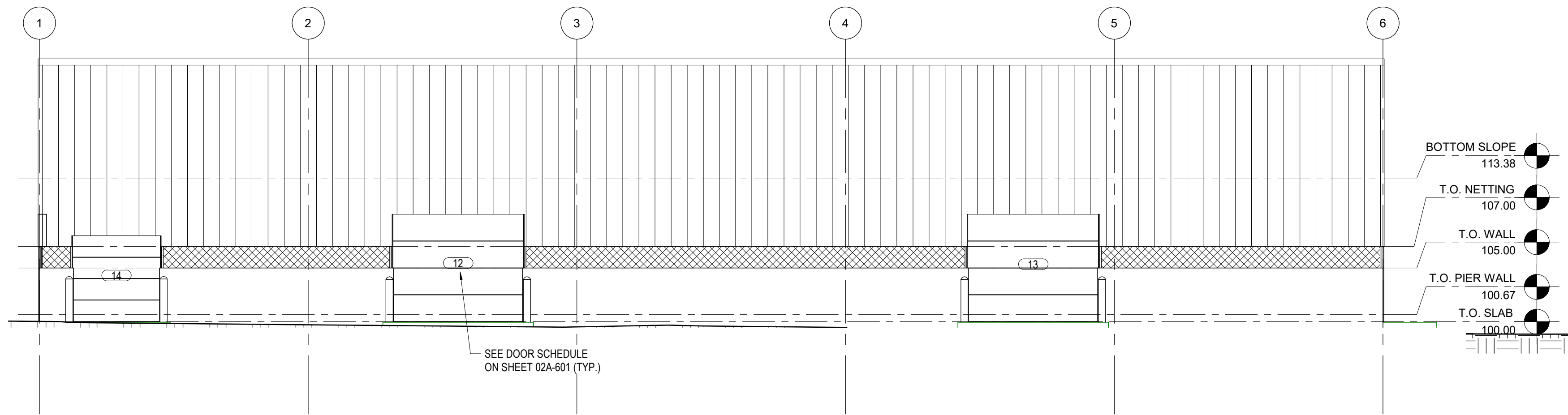
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SHEET  
**02S-302**

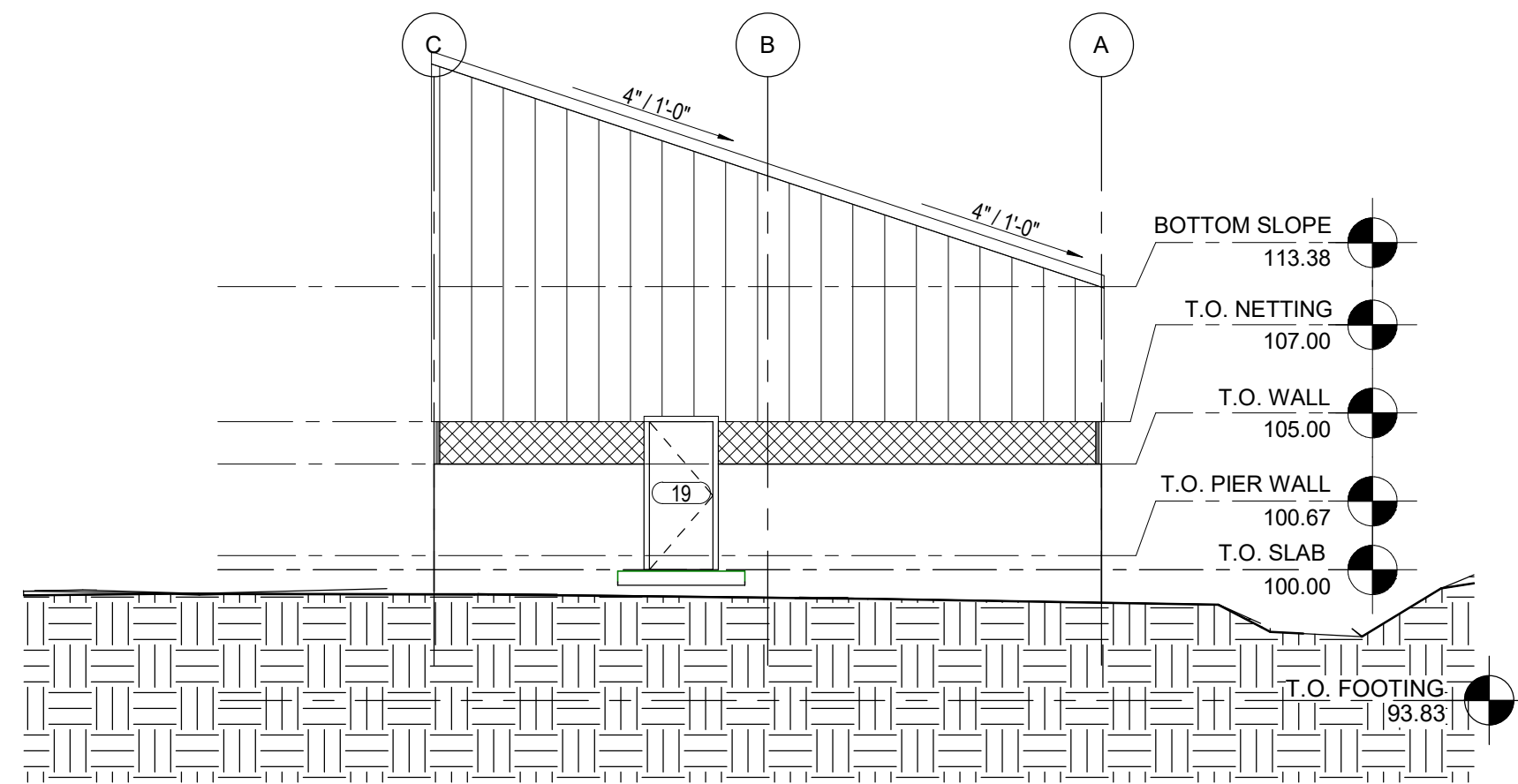




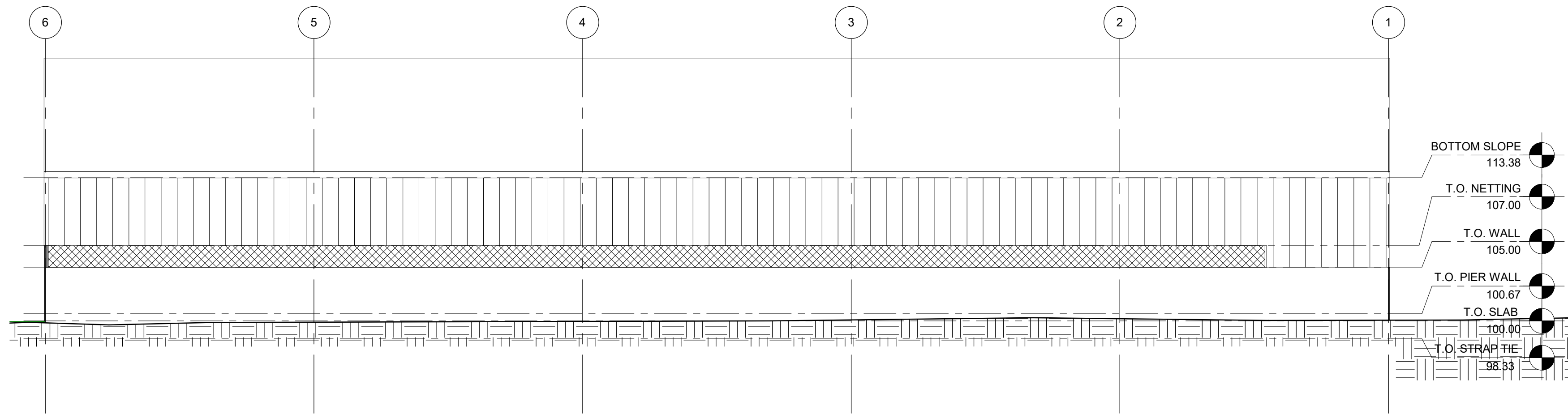
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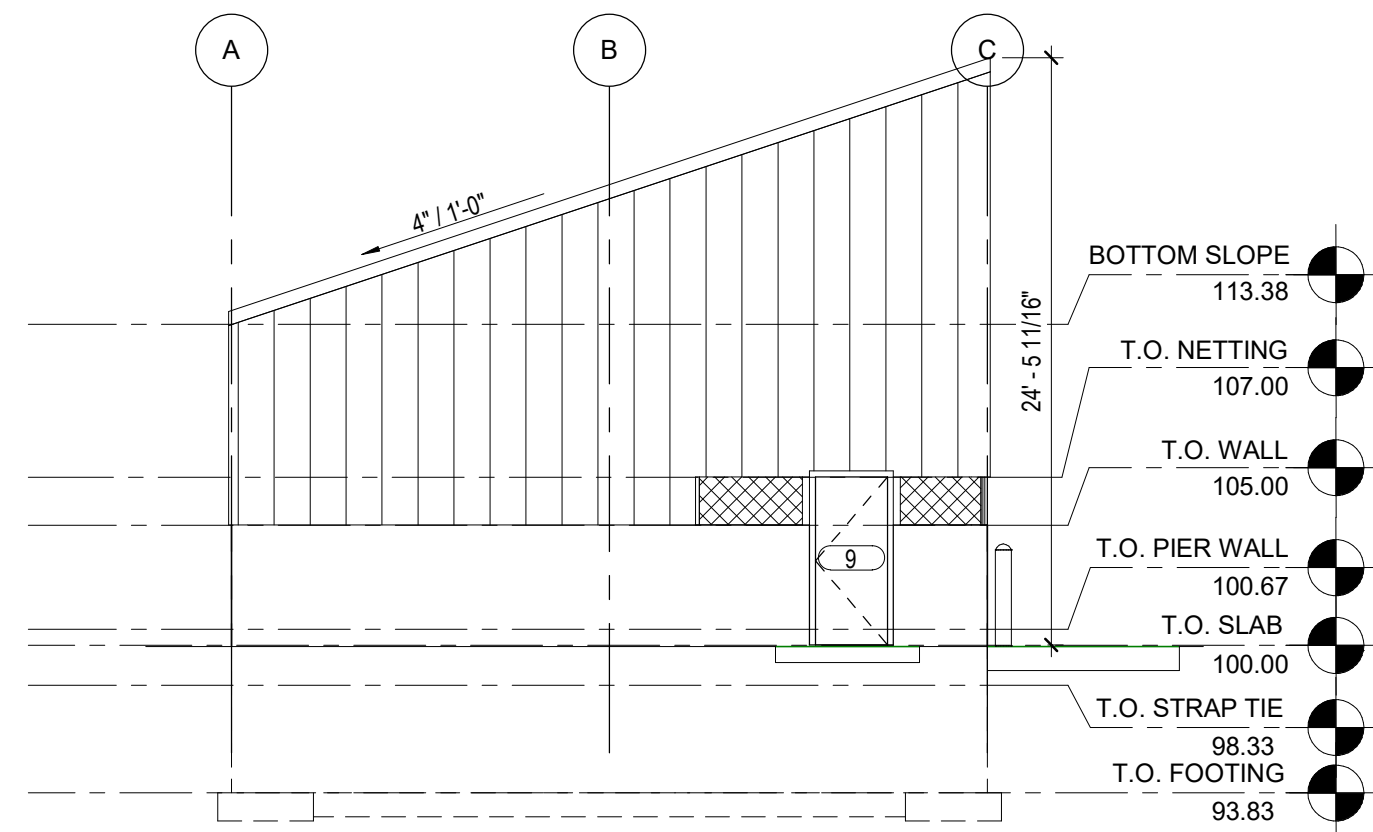
1 UPPER PAVILION SOUTH ELEVATION  
1/8" = 1'-0"



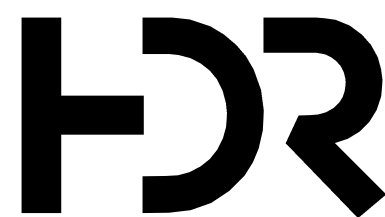
2 UPPER PAVILION EAST ELEVATION  
1/8" = 1'-0"



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

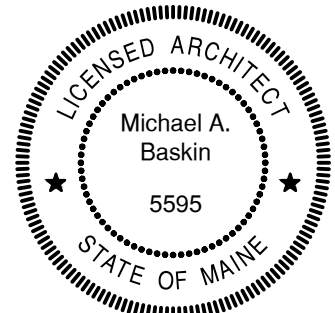


4 UPPER PAVILION WEST ELEVATION  
1/8" = 1'-0"



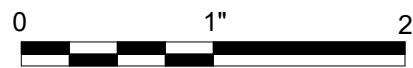
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PROJECT MANAGER		ANDREW GURSKI
CIVIL	J. GAGNON	
STRUCTURAL	B. BRADLEY	
ARCHITECTURAL	M. BASKIN	
PROCESS	J. CHANDLER	
MECHANICAL	J. CHANDLER	
ELECTRICAL	A. KANER	
PROJECT NUMBER		10357686



IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

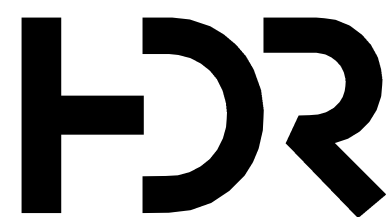
UPPER PAVILION EXTERIOR ELEVATIONS



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

SHEET  
02A-201

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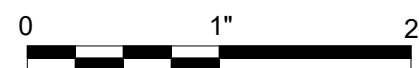
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ISSUE	DATE	DESCRIPTION

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



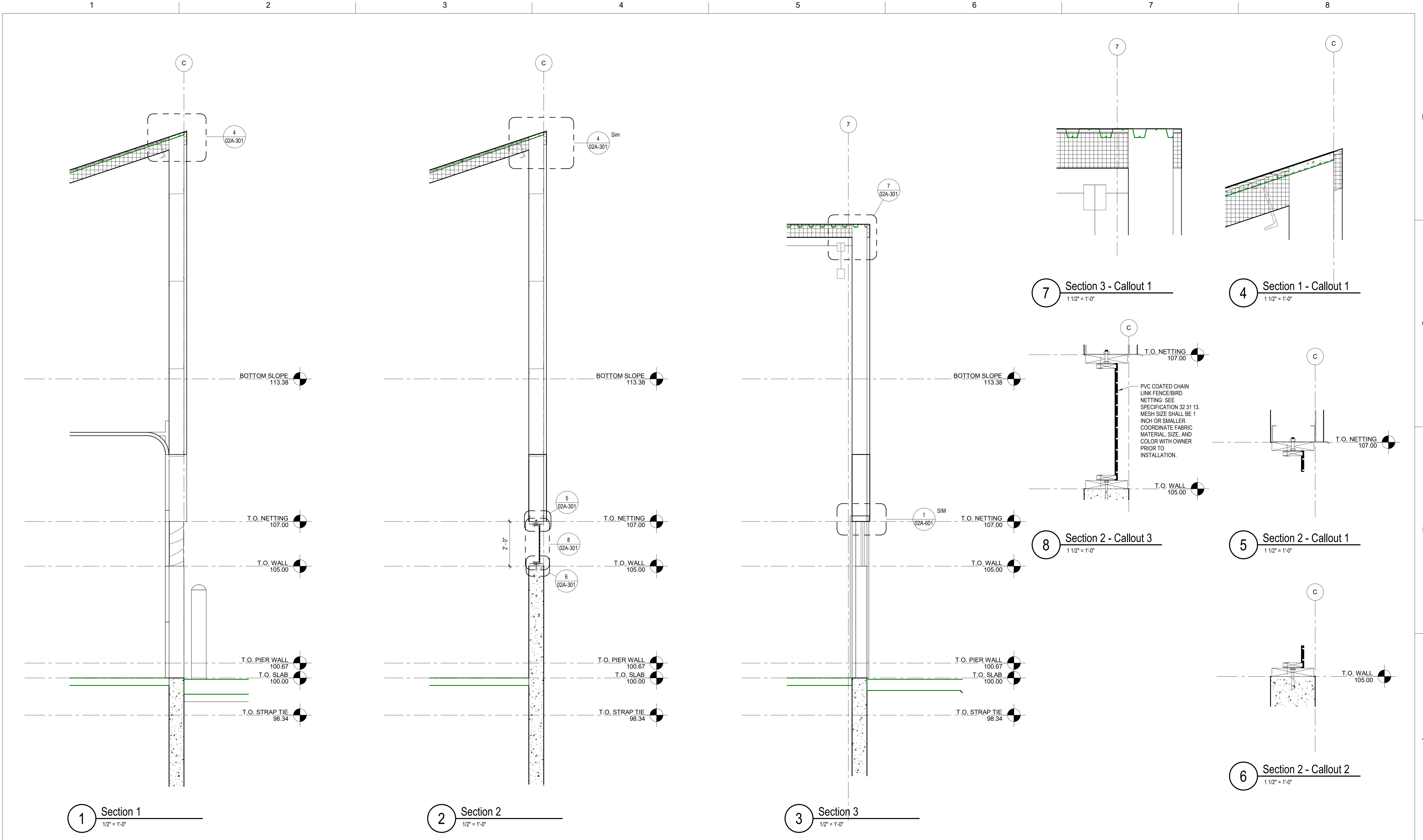
IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

UPPER PAVILLION WALL SECTION & DETAILS

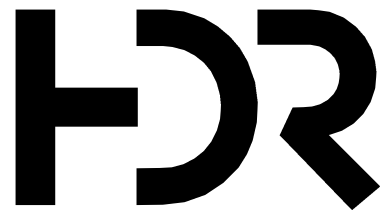


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02A-301



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ISSUE DATE DESCRIPTION

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

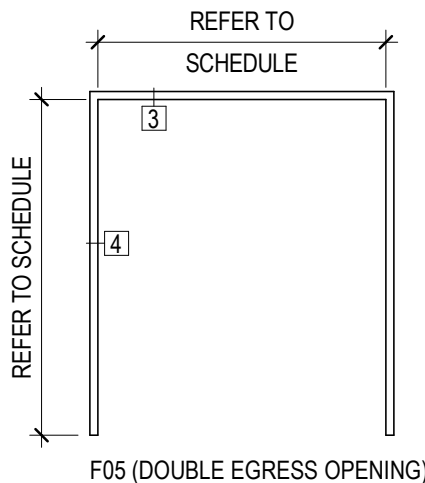
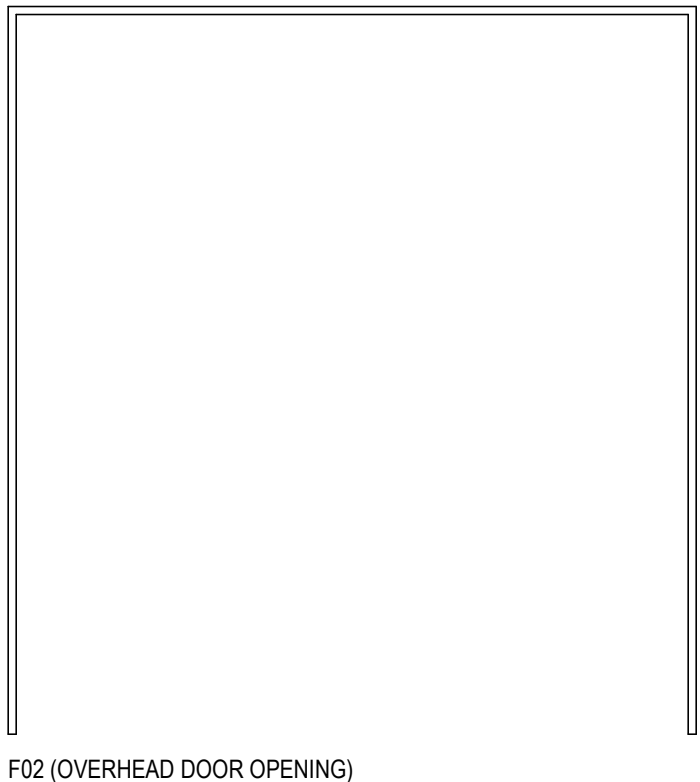
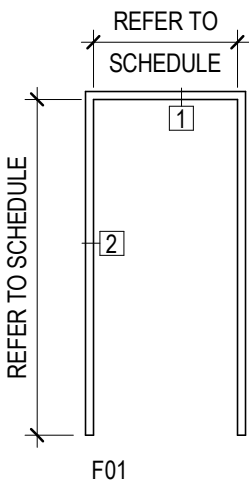
UPPER PAVILION DOOR SCHEDULE AND DETAILS



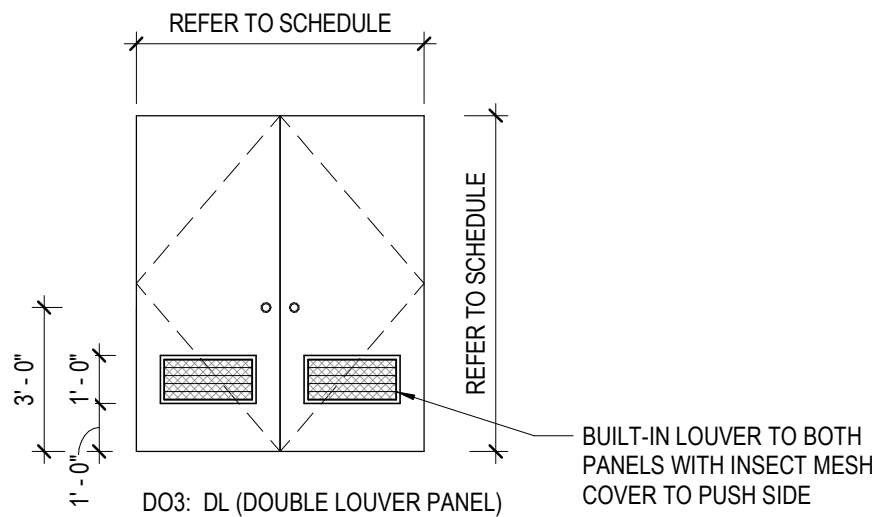
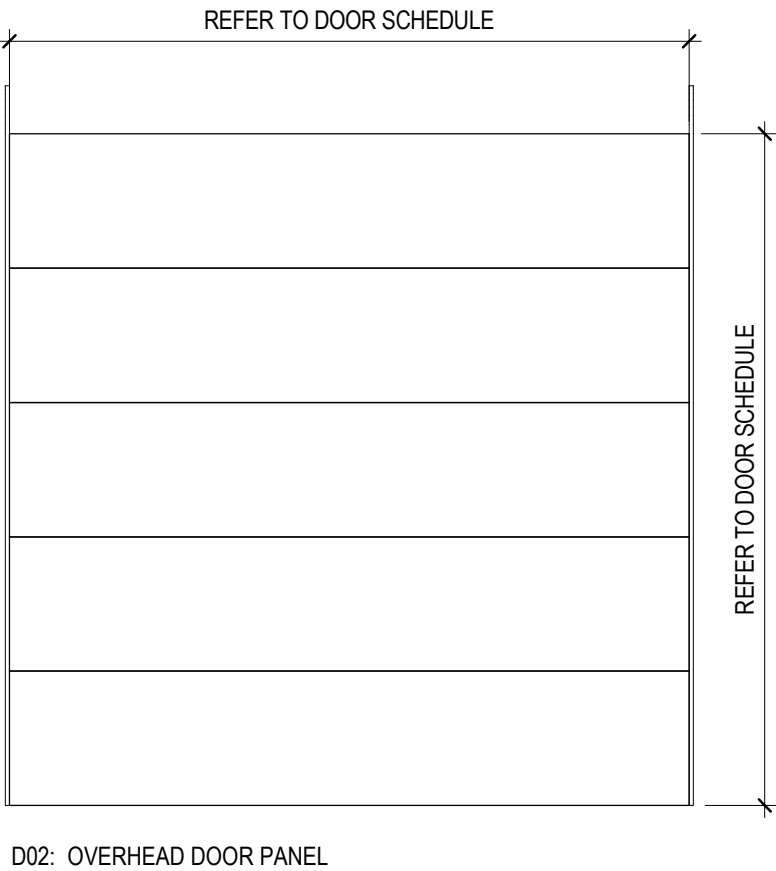
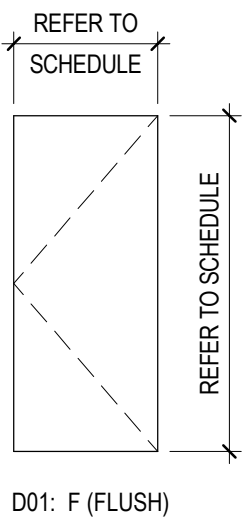
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SHEET  
02A-601

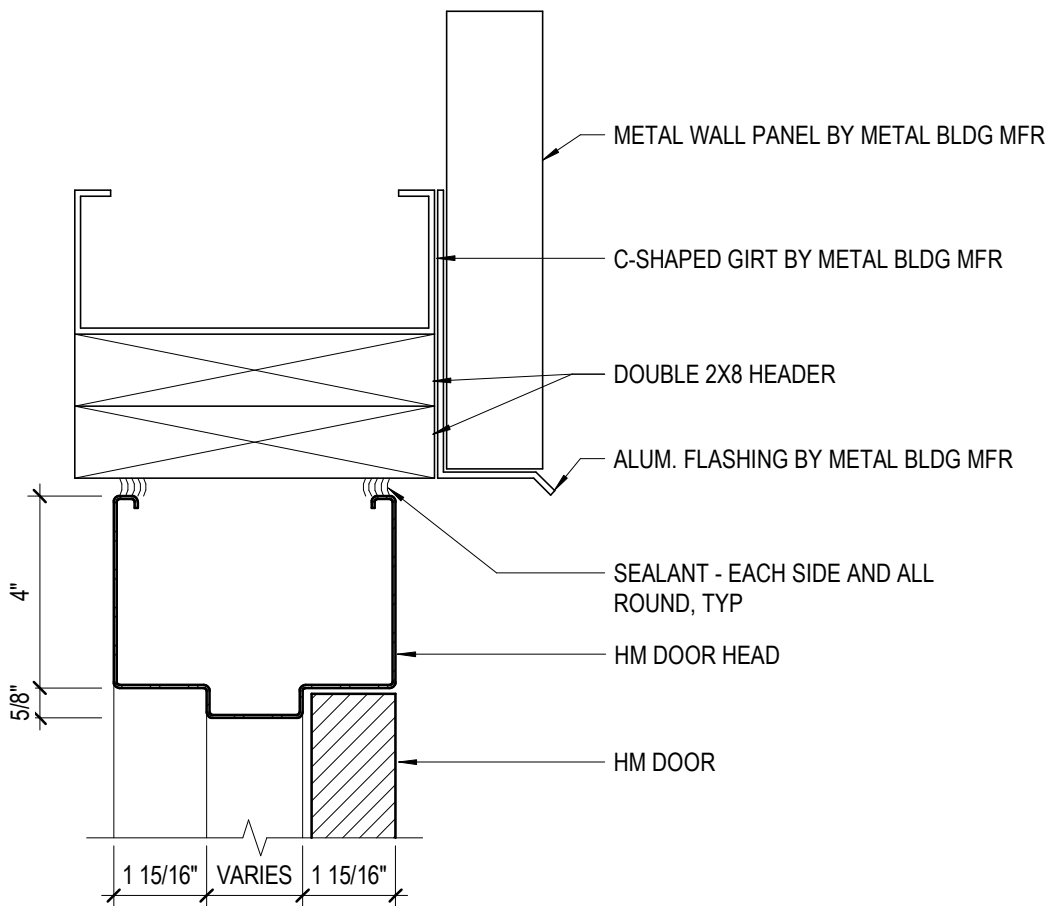
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LEVEL	ROOM NO.	ROOM NAME	DOOR NO.	OPENING WIDTH			H	T		Material	Finish	TYPE	Material	Finish			
				W1	W2	Total Width											
T.O. SLAB	201	FEED STORAGE	15	3'-0"	3'-0"	6' - 0"	7' - 0"	2"	D03	METAL	PAINTED	F05	METAL	PAINTED	N/A	2	
T.O. SLAB	200	TANK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



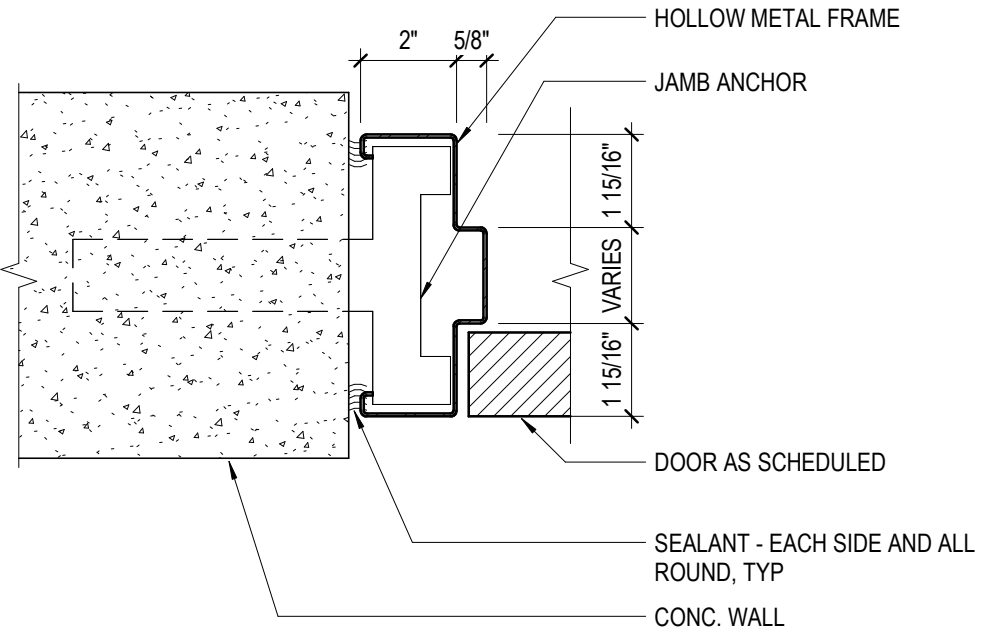
DOOR FRAME TYPES



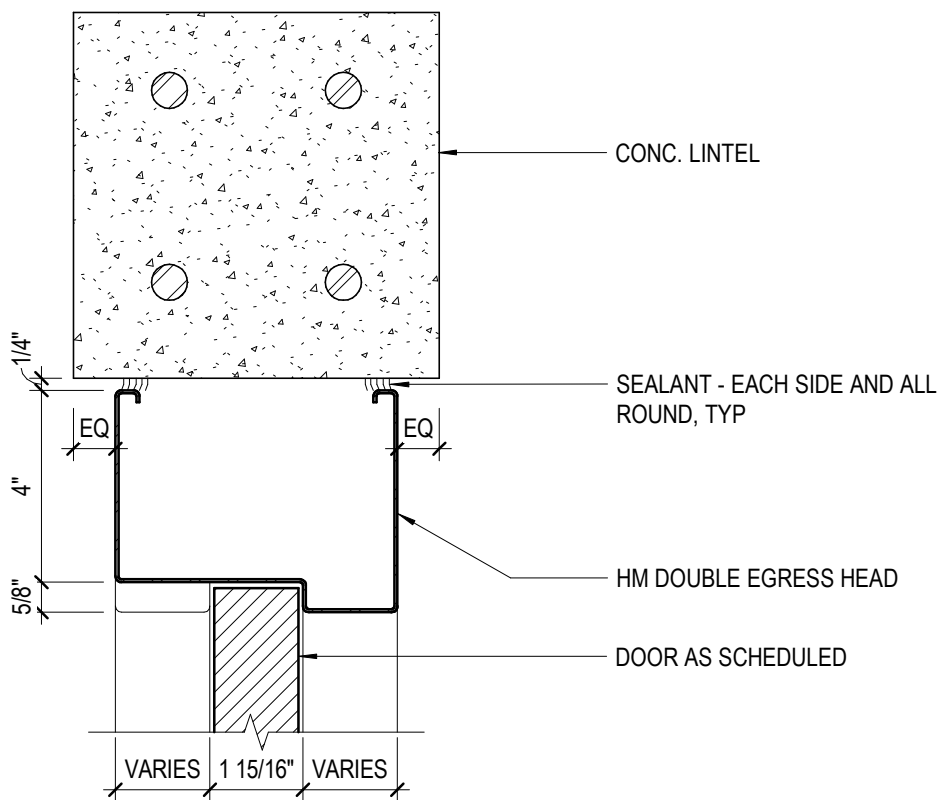
DOOR TYPES



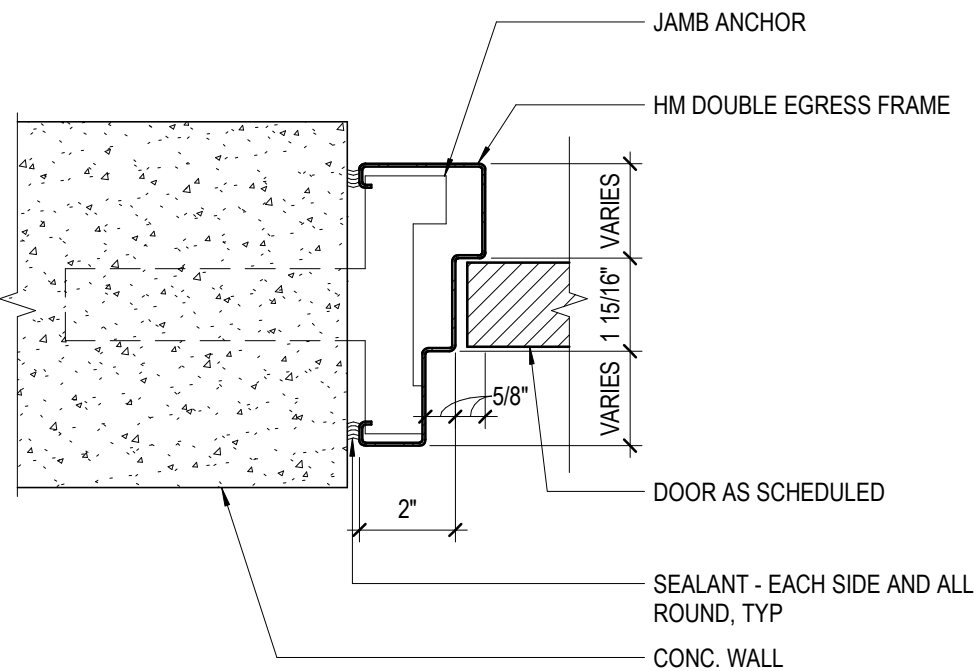
1 HEAD - HM DOOR  
3" = 1'-0"



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




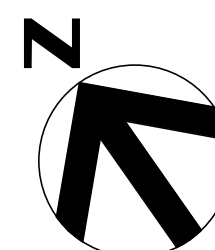
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3" = 1'-0"



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



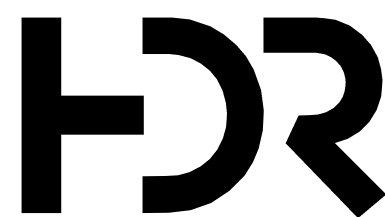
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SHEET  
**02D-101**

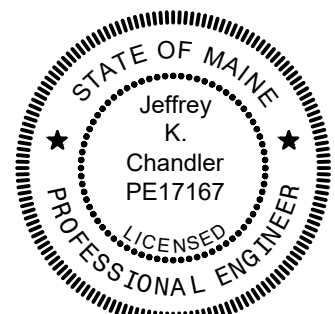
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PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER 10357686	



IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

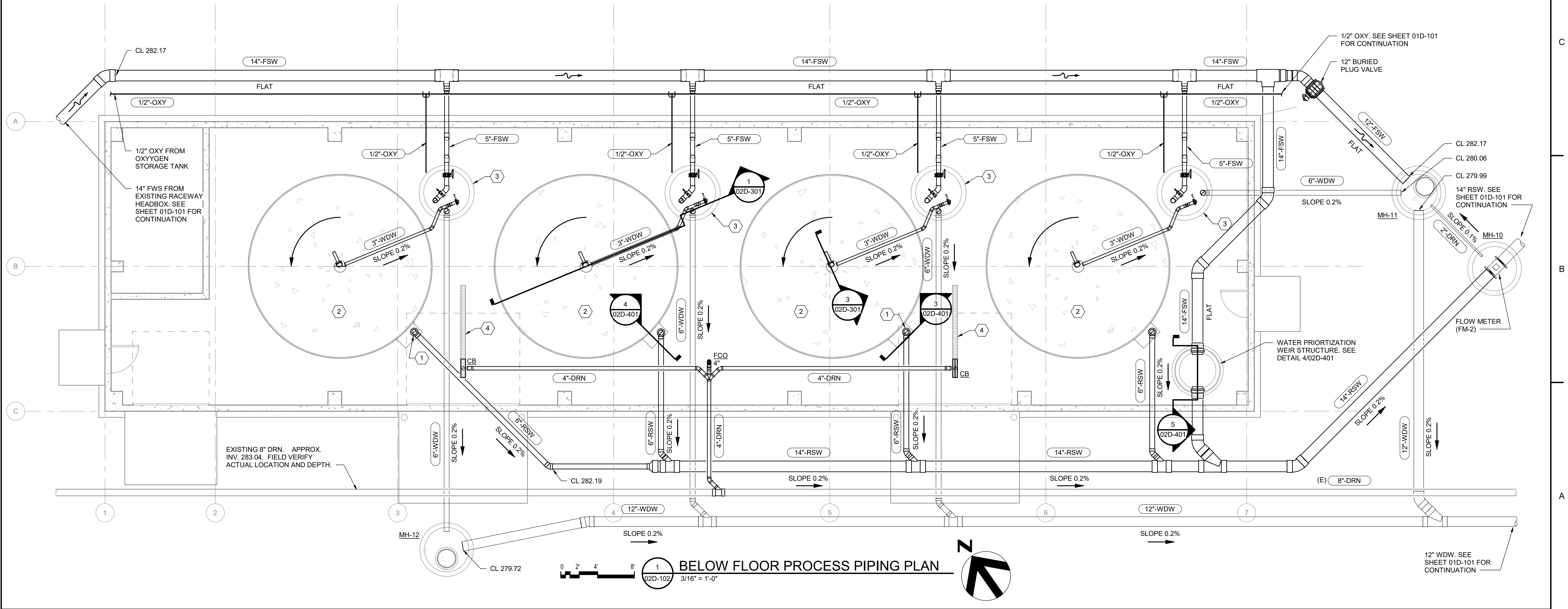
UPPER PAVILION  
BELOW FLOOR PROCESS PIPING PLAN



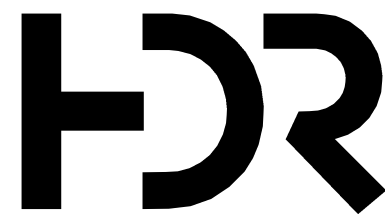
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SCALE 3/16" = 1'-0"

SHEET  
02D-102

- 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

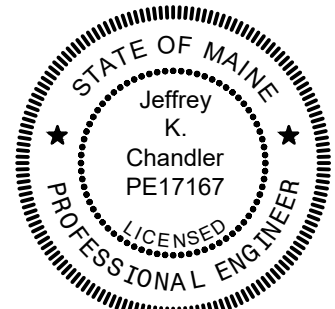


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05/03/2024	ISSUED FOR BID	
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PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



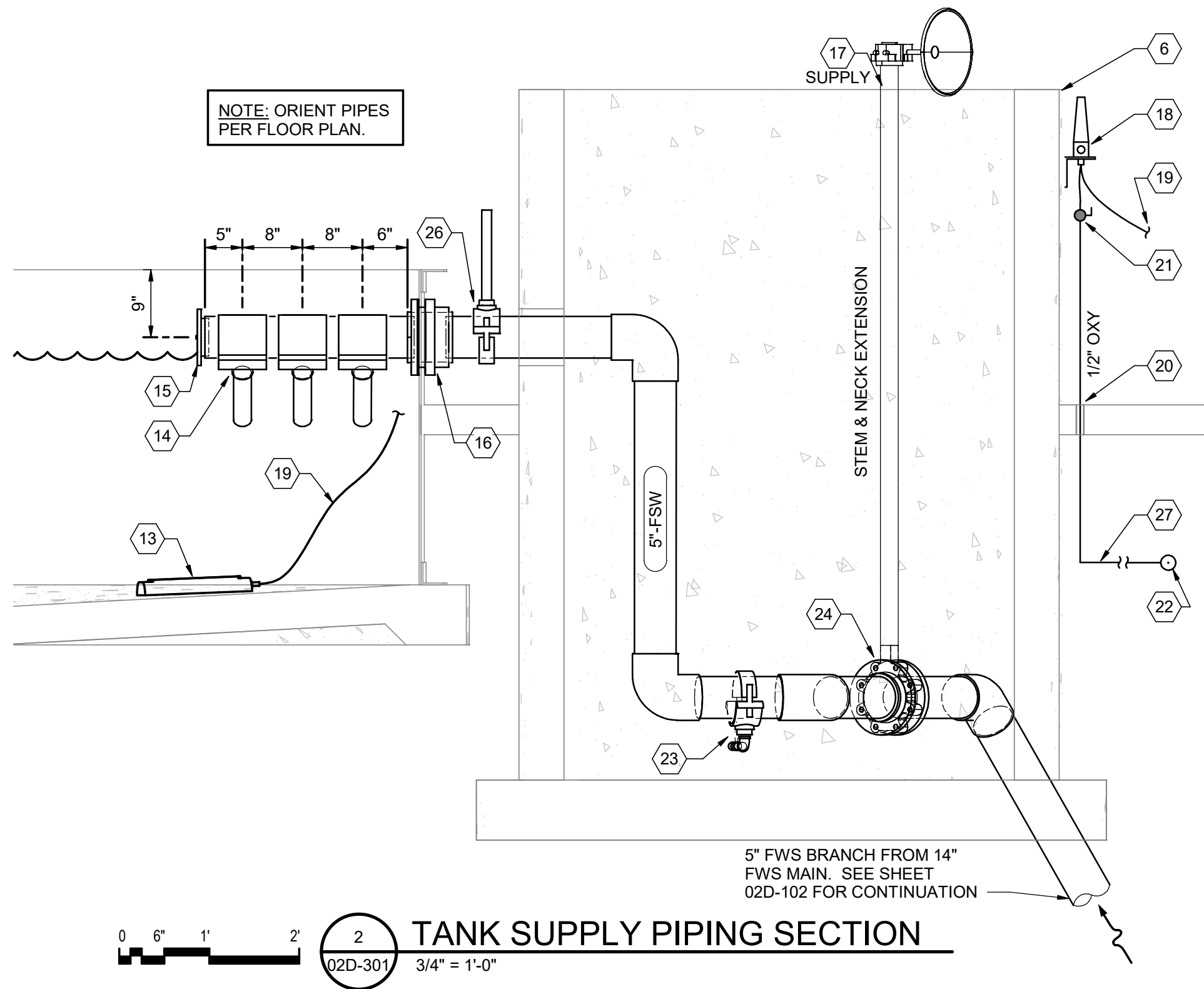
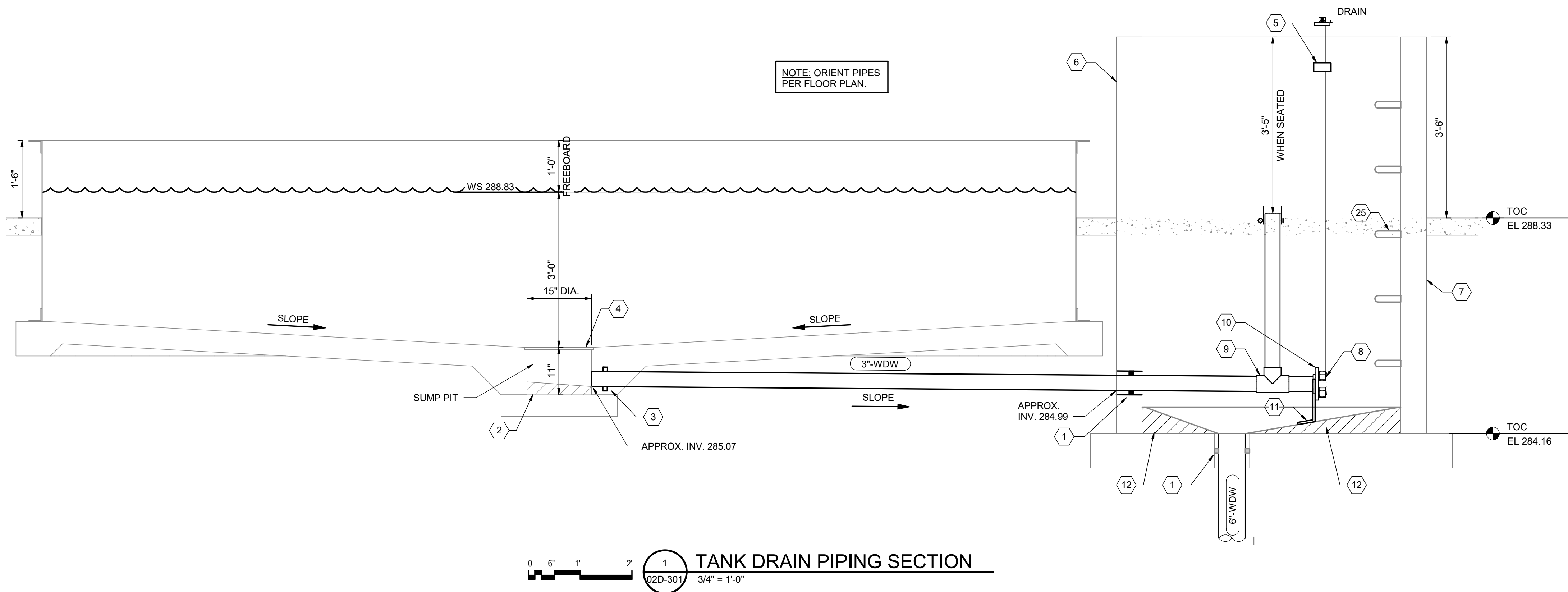
## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

### UPPER PAVILION TANK SECTIONS



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SCALE	3/4" = 1'-0"

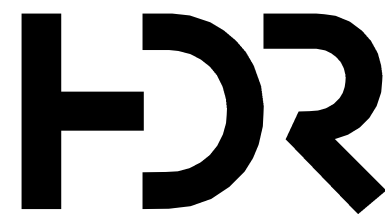
SHEET
02D-301



#### KEYED NOTES

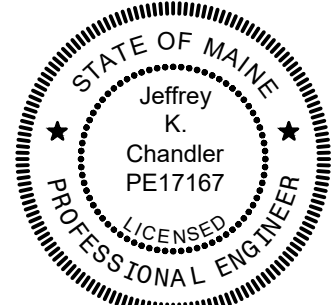
- LINKAGE TYPE SEAL
- SLOPE GROUT TO DRAIN
- FIELD APPLIED NON-SWELLING WATERSTOP
- FISH SCREEN PER STRUCTURAL SHEETS
- GALV. OR SS VALVE & NECK SUPPORT 2" CLEAR BELOW MANHOLE RIM FOR EACH VALVE
- VALVE BASIN
- TOPLESS MANHOLE WITH STEPS & CLEAN, SMOOTH OVER SURFACE
- KNIFE GATE VALVE WITH STEM & NECK EXTENSION
- SCH 40 PVC TEE SHOWN WITHOUT UPSTREAM 45 DEGREE BEND FOR CLARITY, INCLUDE BEND & ORIENTATE PER PLAN 1/02D-401
- PVC ONE-PIECE SOCKET FLANGE
- SUPPORT FLANGE OR PIPE TO GROUT W/ SS HARDWARE
- GROUT SLOPED ALL AROUND TO DRAIN
- CERAMIC OXYGEN DIFFUSER
- ORIENT NOZZLES SIMILAR TO DETAIL 2/02D-401
- EXPANSION PLUG
- TANK ADAPTER: SCH 80 PVC BULKHEAD WITH AT LEAST 8.75" O.D. BODY (FPT TOWARD TANK)
- WEATHERPROOF GEAR OR LEVER WITH AT LEAST 13 POSITIONS WITHOUT WING NUTS & WITHOUT SET SCREWS
- SS BRACKET MOUNTED THORPE STYLE OXYGEN METER (0-7 SLPM) WITH TOP 1" B.T.O.C., SHOWN ON OPPOSITE SIDE FOR CLARITY, LOCATE PER PLAN
- 1/4" HOSE TO OXYGEN DIFFUSER
- TYP. PIPE PENETRATION THRU FLOOR
- CONNECT ISOLATION BALL VALVE TO METER WITH ADAPTERS AND HOSE OR COPPER PIPE
- 1/2" OXY MAIN APPROX. 21" BELOW FLOOR
- CURBSTOP VALVE WITH SEMI-PERMANENT SQUARE OPERATOR FOR WINTERIZATION/DRAIN/SEDIMENT FLUSH
- BUTTERFLY VALVE (FISH TANK SUPPLY VALVE)
- MANHOLE STEPS
- 5" SADDLE TAP W/ 1" SIGHT GLASS
- BURIED 1/2" OXY
- 3" HYDROSTATIC PRESSURE RELIEF VALVE EQUAL TO PENN-TROY A2580
- FLANGED WALL PIPE WITH ANTI-SEEP RING & SCREEN
- CLEAN CRUSHED STONE

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5/16/2024 8:43:05 AM



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CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

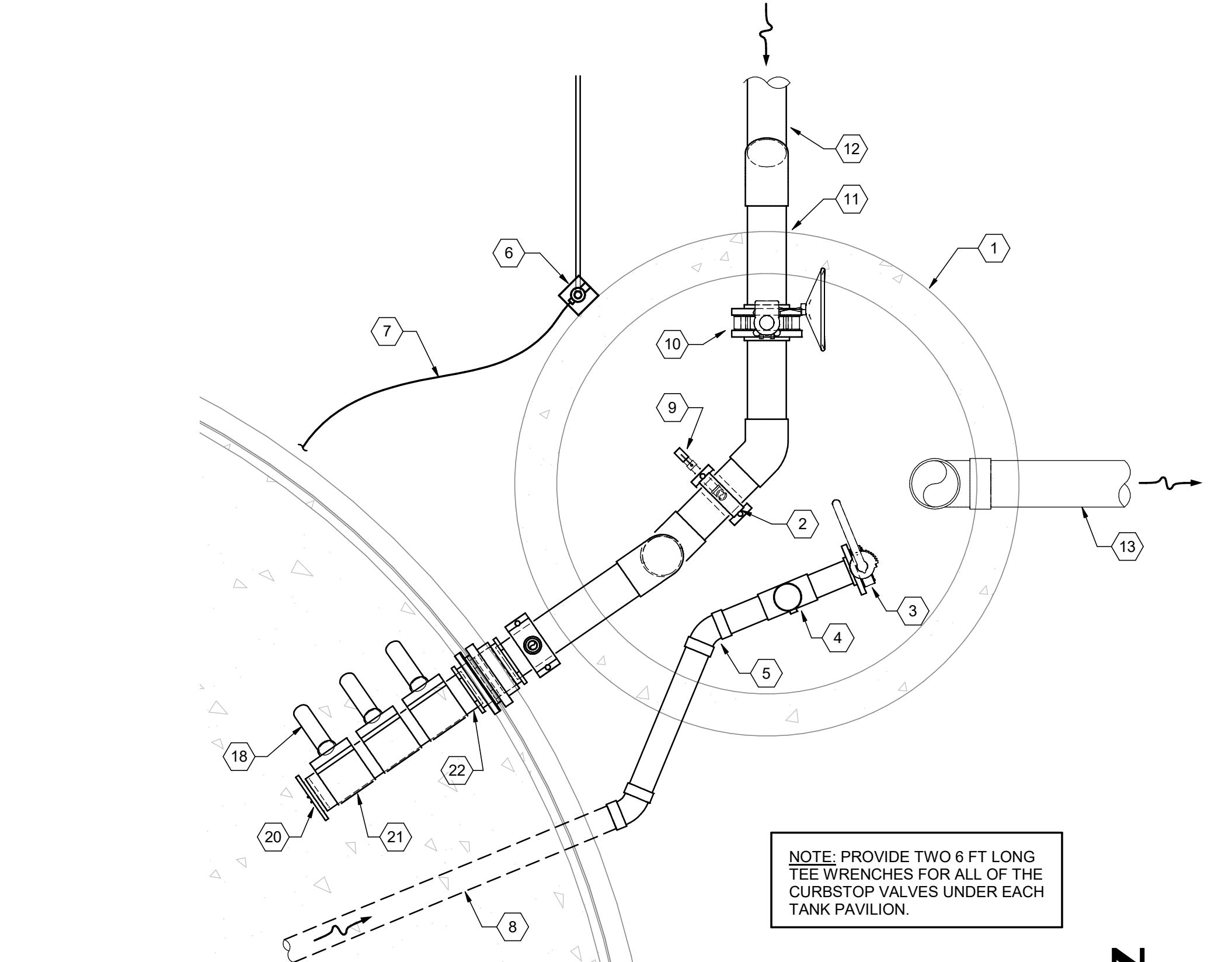
## UPPER PAVILION ENLARGED PLAN & DETAILS



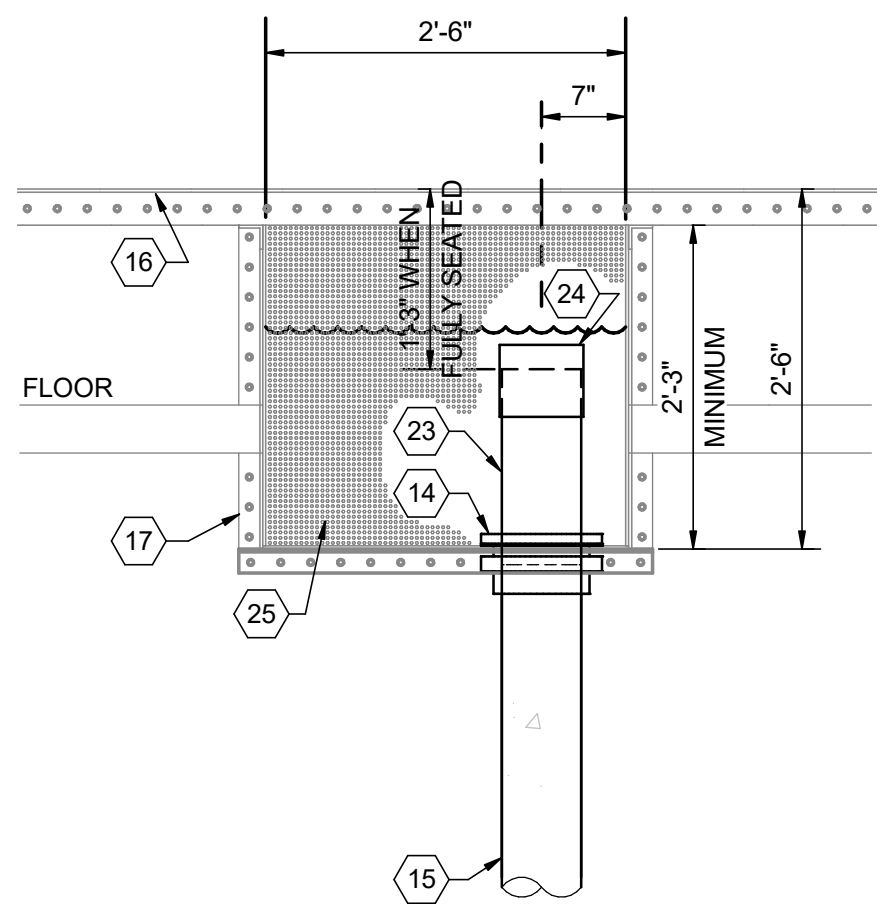
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SHEET	02D-401
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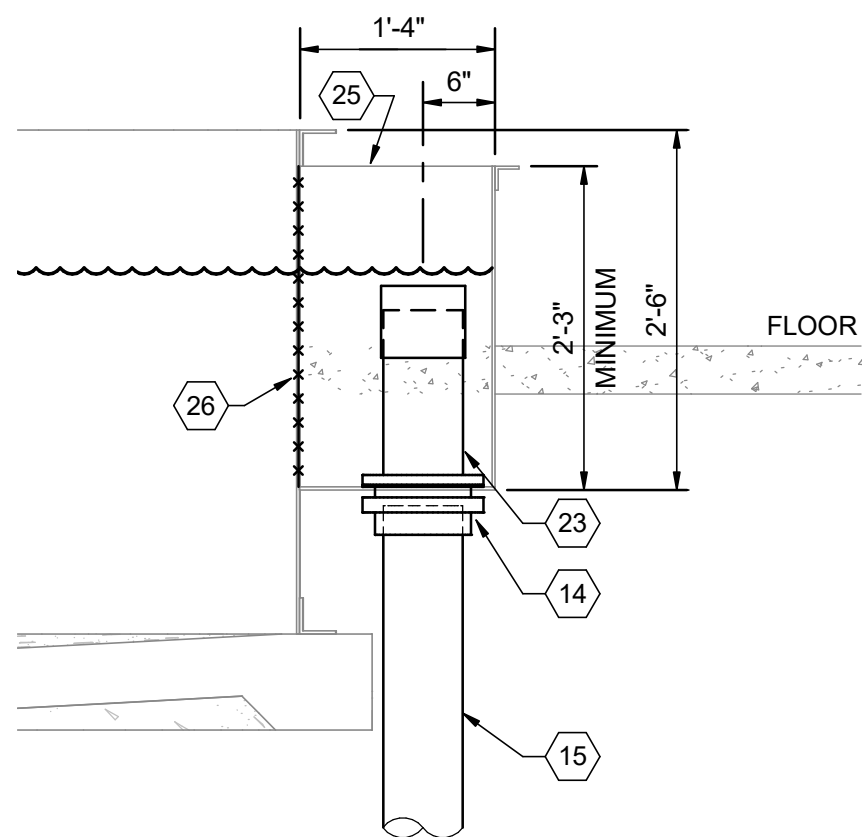
0 6" 1' 2' 1 ENLARGED UPPER PAVILION VALVE BASIN PLAN 02D-401 3/4" = 1'-0"



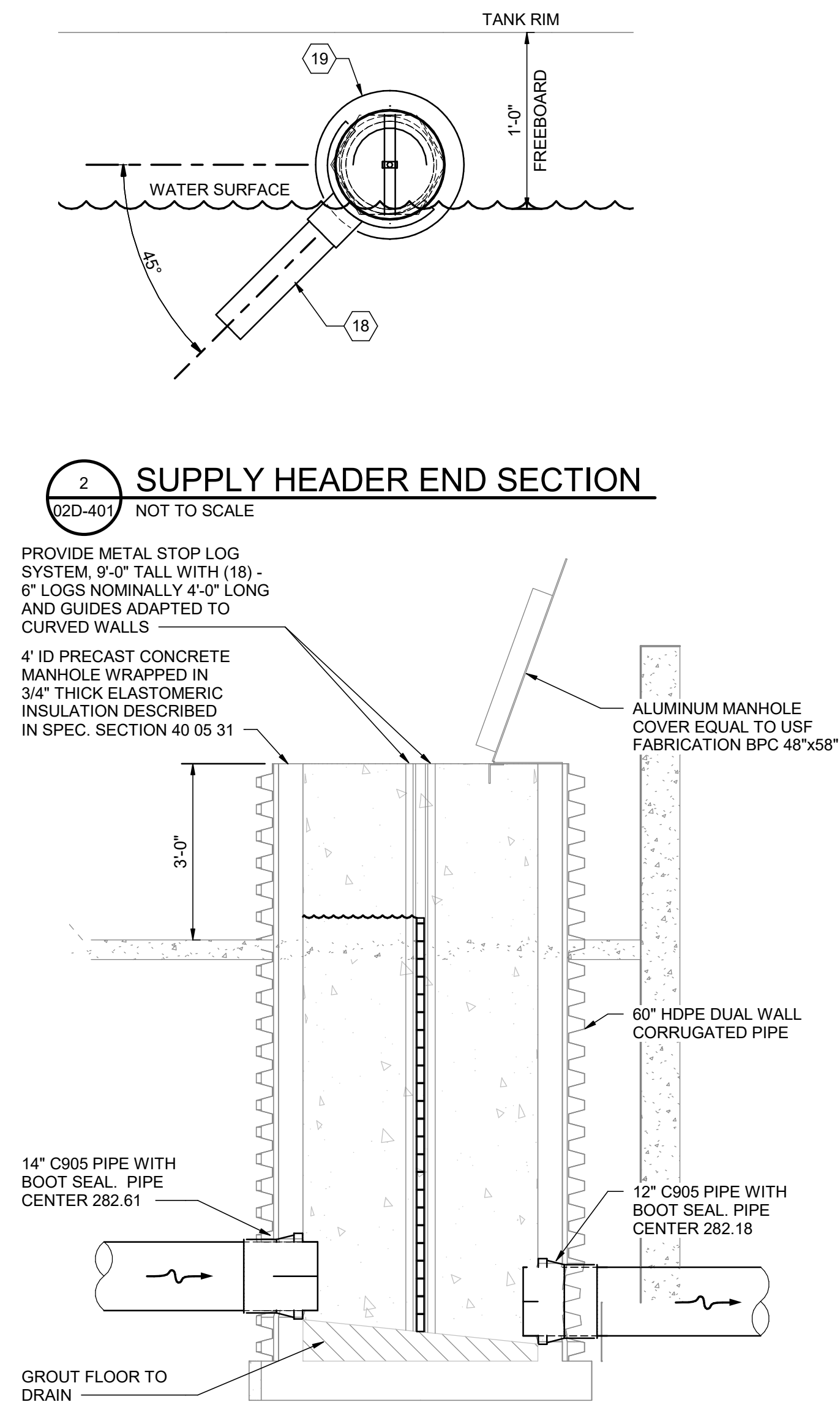
0 6" 1' 2' 3 TANK OVERFLOW DETAIL 02D-401 3/4" = 1'-0"



0 6" 1' 2' 4 TANK OVERFLOW SECTION 02D-101 3/4" = 1'-0"



0 6" 1' 2' 2 SUPPLY HEADER END SECTION 02D-401 NOT TO SCALE



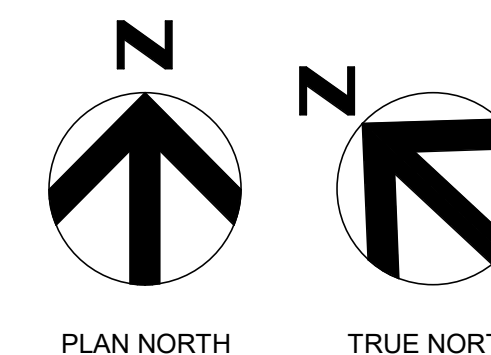
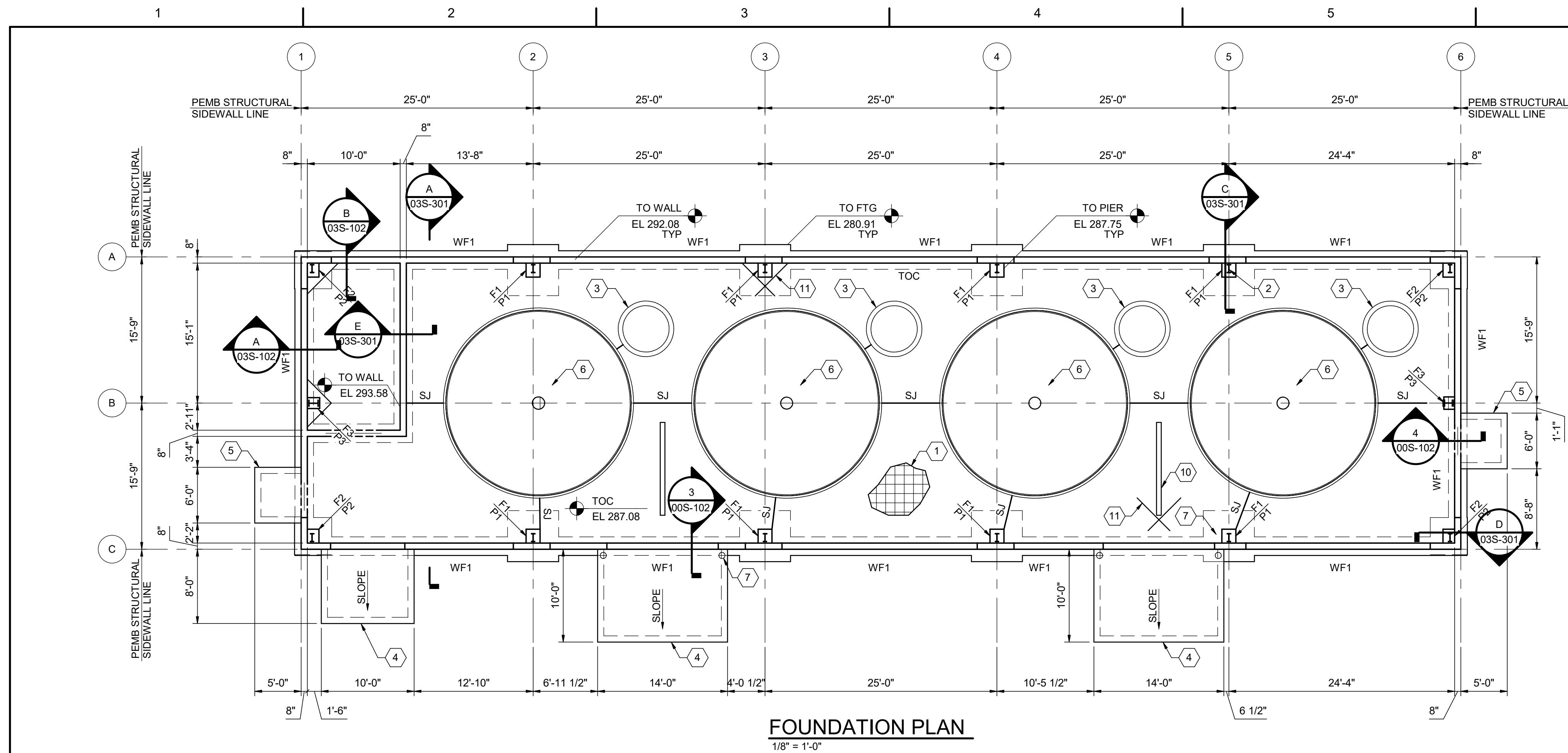
0 6" 1' 2' 5 WATER PRIORIZATION WEIR STRUCTURE SECTION 02D-401 NOT TO SCALE

### 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)
- 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 16 GAGE SS PERFORATED SCREEN (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 MDGIF TO TEMPORARILY TIE TO UNSANDWICHED AREA OF 16 GAGE SCREEN
- 26 11.25 DEG BEND







GENERAL NOTES:

1. SEE SHEET 00S-001 FOR GENERAL STRUCTURAL NOTES.
2. SEE 00S-100 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.

KEYNOTES:  #

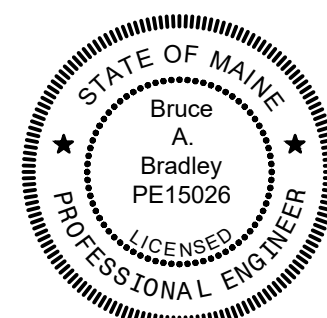
1. 4" CONCRETE SLAB WITH #4@12" OC, EW MID-DEPTH IN SLAB OVER COMPACTED CLEAN FREE-DRAINING GRANULAR FILL.
2. COLUMNS BY METAL BUILDING MANUFACTURER (MBM).
3. PRECAST WATER CONTROL STRUCTURE, SEE PLUMBING DRAWINGS.
4. CONCRETE APPROACH SLAB AT OVERHEAD DOOR. SEE DETAIL 3/00S-102.
5. CONCRETE STOOP, SEE DETAIL 4/00S-102. STOOP GRADE BEAM SHALL BE TIED INTO PERIMETER GRADE BEAM.
6. SEE SHEET 03S-103 FOR TANK SLAB.
7. 8" DIAMETER SCHEDULE 40 STEEL PIPE BOLLARD FILLED WITH CONCRETE (PAINT YELLOW). TYPICAL OF 8. SEE DETAIL 4/03S-302.
8. PROVIDE 2'-0"x2'-0" #4 BENT BAR CAST MID-DEPTH OF SLAB AT ALL LOCATIONS WHERE SLAB EXTENDS OVER FOUNDATION WALL. SEE DETAILS.
9. PROVIDE #4x48" LONG @ 12" OC CAST MID-DEPTH IN SLAB AT OVERHEAD DOOR LOCATIONS WHERE SLAB EXTENDS OVER FOUNDATION WALL. SEE DETAILS.
10. PREMOLDED TRENCH DRAIN, SEE PLUMBING DRAWINGS.
11. (2) #4x5'-0" LONG CAST IN SLAB AT ALL RE-ENTRANT CORNERS. PLACE BARS 2" FROM CORNER, BEND BARS AS NECESSARY FOR PROPER PLACEMENT.

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 1/03S-302
F2	4'-0"x4'-0"x1'-2"	(5)#6 EACH WAY BOTTOM	280.91	289'	SEE DETAIL 1/03S-302
F3	3'-0"x3'-0"x1'-2"	(4)#6 EACH WAY TOP & BOTTOM	280.91	289'	SEE DETAIL 1/03S-302
WF1	2'-0"x1'-0"x CONT.	(3)#5 CONTINUOUS	280.91	NA	SEE DETAIL 1/03S-302

1 FOOTING SCHEDULE  
NOT TO SCALE

[illegible]

<b>PROJECT MANAGER</b>	ANDREW GURSKI
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
<b>PROJECT NUMBER</b>	10357686



## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY



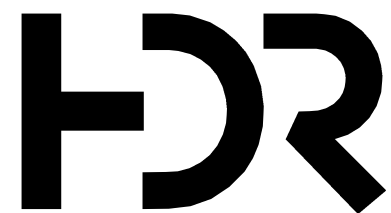
**LOWER PAVILION  
FOUNDATION PLAN**

2" **FILENAME** | 10353741-03-S.rvt

**SCALE** | As indicated

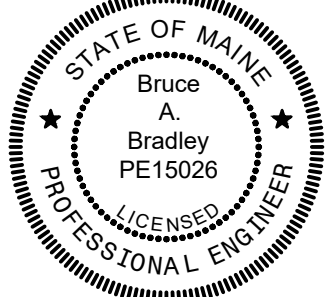
SHEET  
**03S-101**

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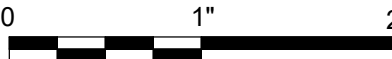


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PROJECT NUMBER	10357686

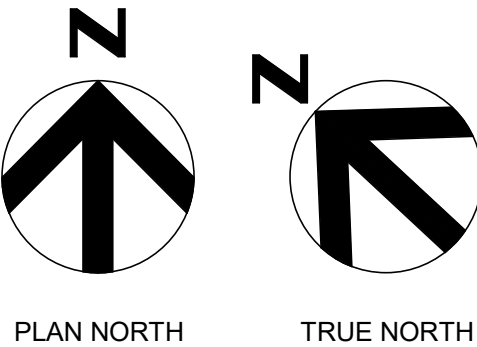


IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY



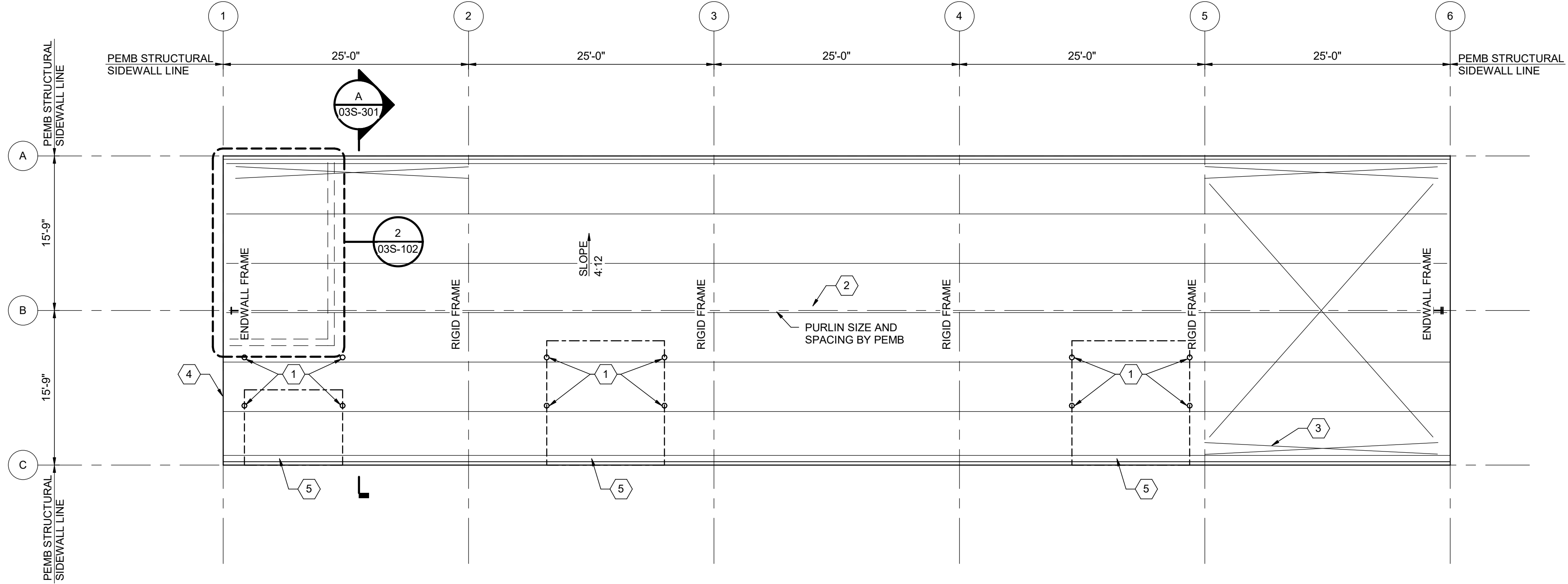
FILENAME 10353741-03-S.rvt  
SCALE As indicated

SHEET  
03S-102

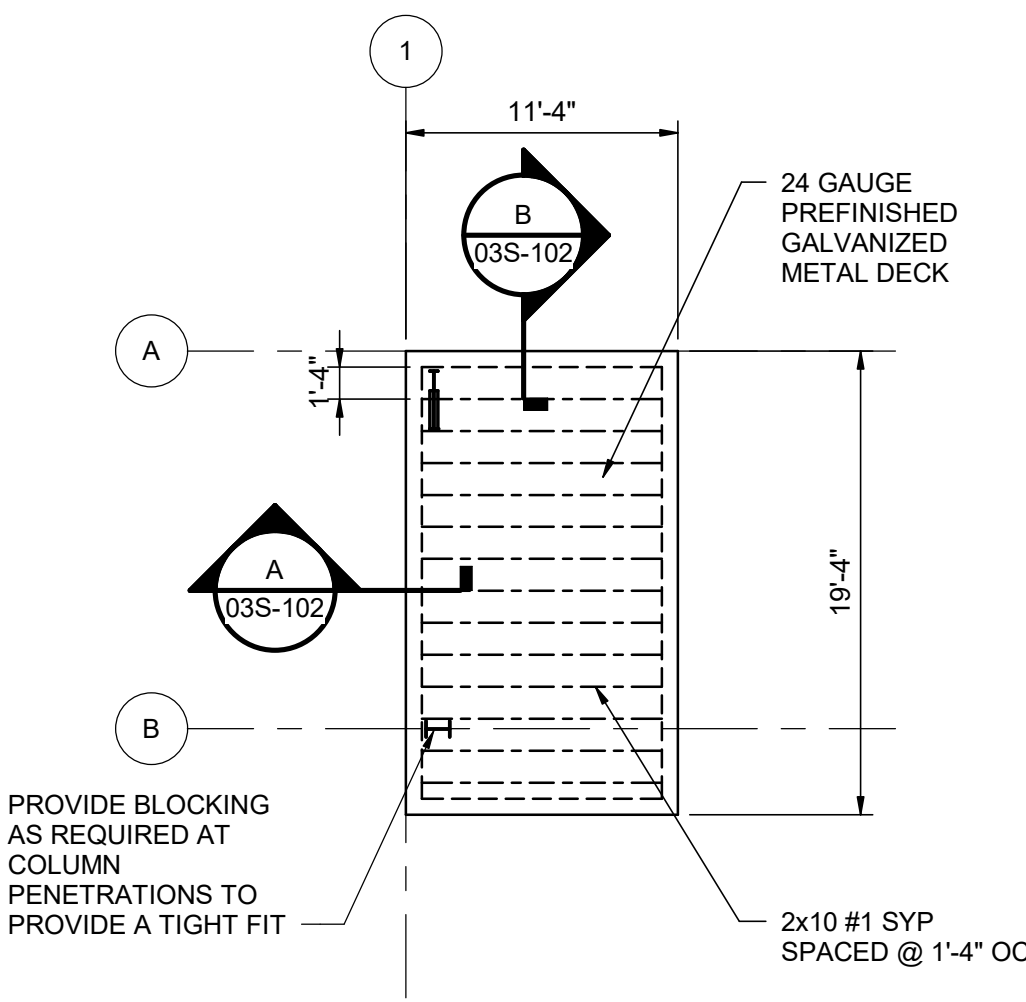


- GENERAL NOTES:**
- SEE SHEET 00S-001 FOR DESIGN STANDARDS AND BUILDING CODE INFORMATION.
  - SEE SHEET 00S-001 FOR DESIGN LOADS.
  - PIER CONFIGURATIONS ARE AS INDICATED ON SHEET 03S-302. IF THESE CONFIGURATIONS ARE NOT COMPATIBLE TO THE PEMB DESIGN THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER 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 FRAME REACTIONS TO THE ENGINEER FOR VIERIFICATION WITH THE FOUNDATIONS SHOWN. 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 CONCRETE REINFORCEMENT SHOP DRAWINGS FOR REVIEW AND APPROVAL. ANY 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 BRACING AS NECESSARY TO MAINTAIN FLAT AND LEVEL GIRTS DURING BUILDING ERECTION.

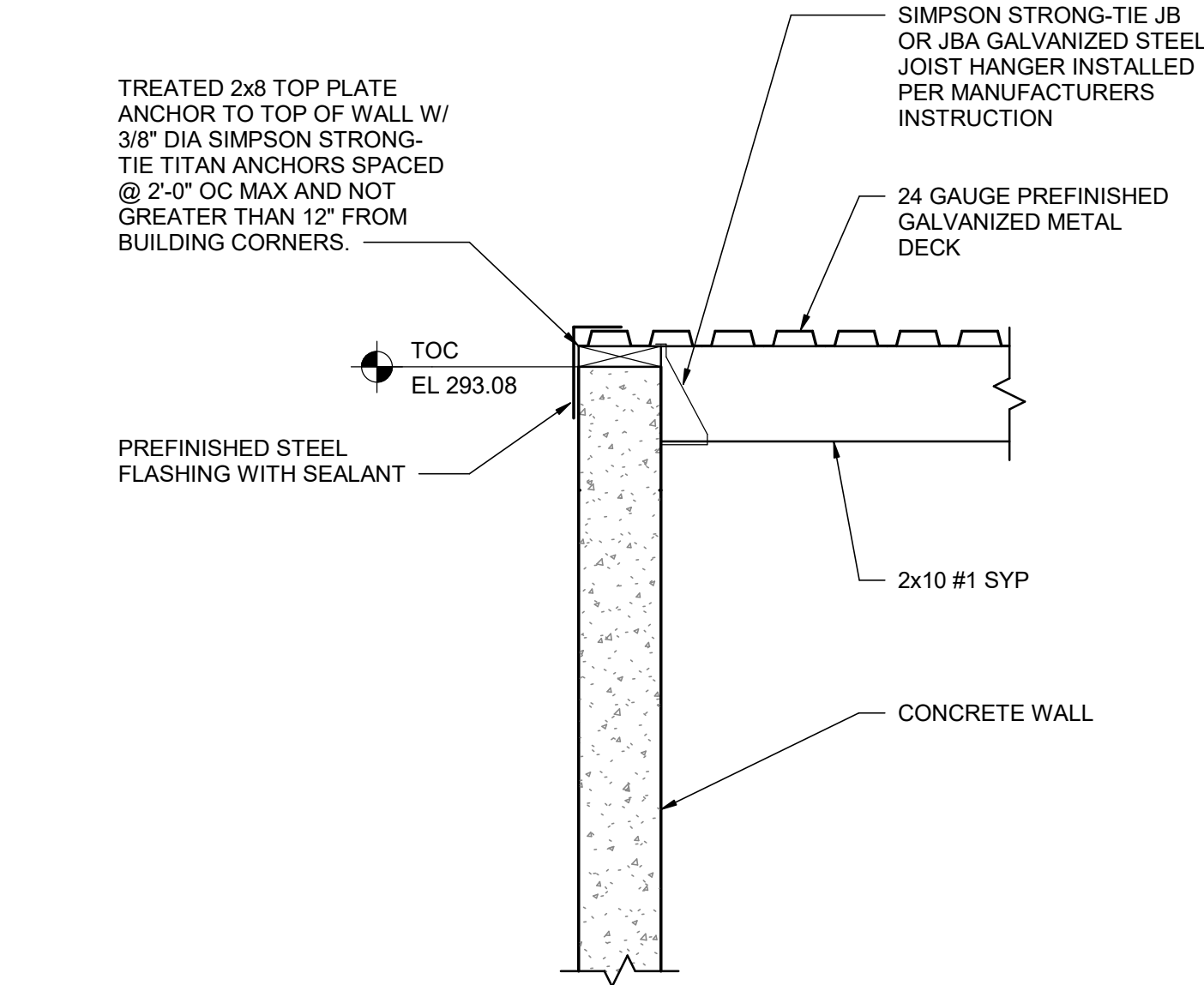
- KEYNOTES:** #
- DENOTES APPROXIMATE POINT LOAD LOCATIONS FOR OVERHEAD DOOR TRACK. GENERAL CONTRACTOR SHALL COORDINATE WEIGHT AND LOCATION WITH PRE-ENGINEERED METAL BUILDING MANUFACTURER.
  - PURLIN SIZE, SPACING AND MATERIAL PROVIDED BY PEMB.
  - ANTICIPATED LOCATION OF CROSS BRACING IN ROOF AND WALLS.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



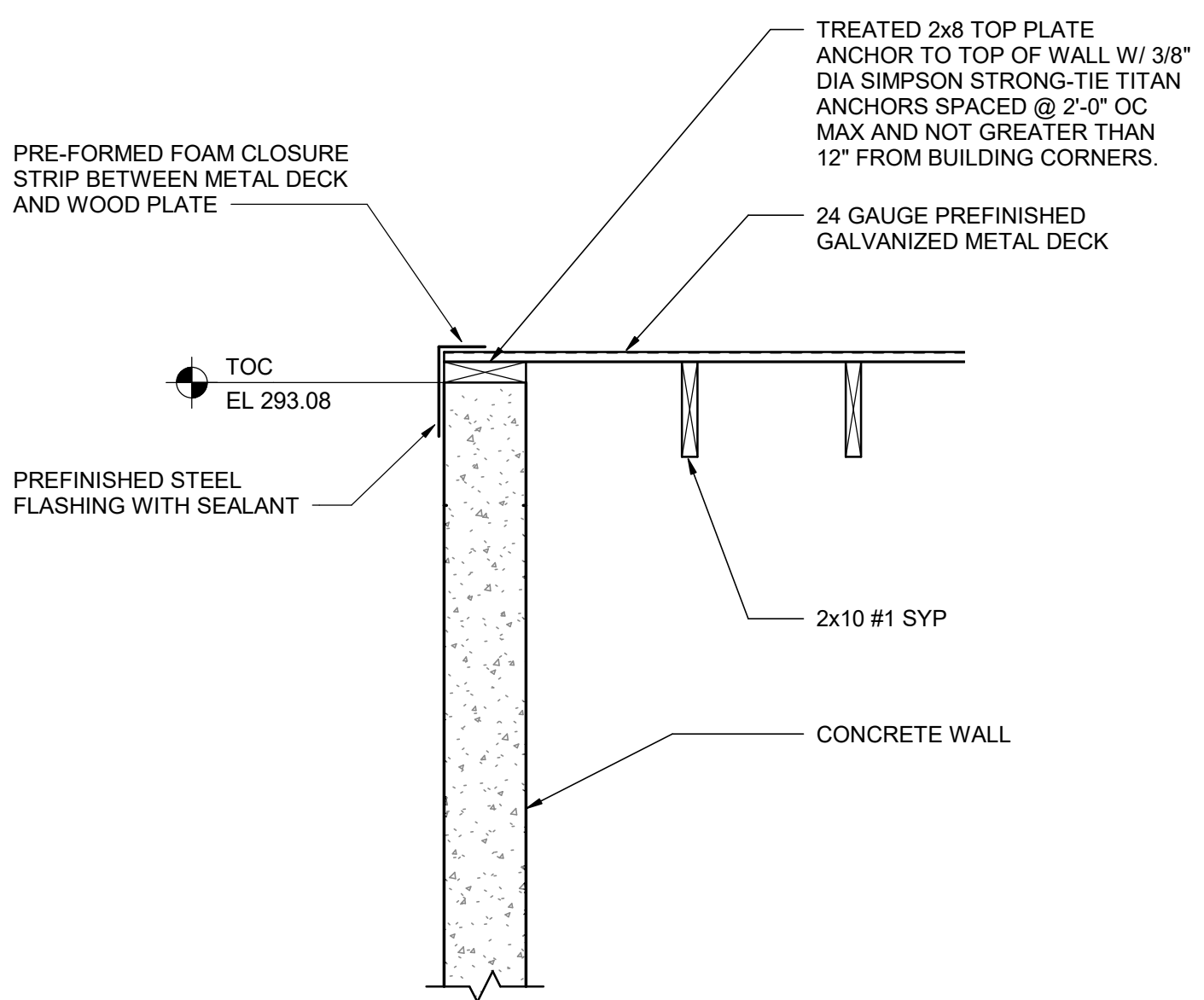
ROOF FRAMING PLAN  
1/8" = 1'-0"



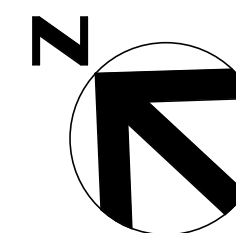
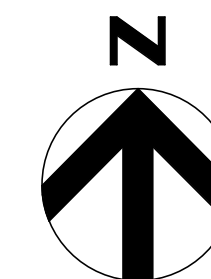
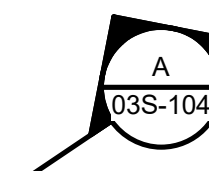
2 STORAGE ROOM CEILING FRAMING PLAN  
03S-102 1/8" = 1'-0"



A SECTION  
03S-102 3/4" = 1'-0"



B SECTION  
03S-101 3/4" = 1'-0"



GENERAL NOTES:

1. 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 PER SPECIFICATION SECTION 02220. EXTERIOR FACE OF TANK WALLS SHALL BE WRAPPED WITH GEOTEXTILE FABRIC PRIOR TO BACKFILL. BACKFILLING OPERATIONS AROUND TANKS SHALL BE PERFORMED ONLY WHEN TANKS ARE FILLED WITH WATER UNLESS WRITTEN PERMITS ARE GIVEN BY THE MANUFACTURER FOR DRY BACKFILL. OPERATIONS CONTRACTOR SHALL COORDINATE BACKFILL TYPE AND GEOTECHNICAL FABRIC MATERIAL WITH TANK MANUFACTURER.

— 4'-0" I.D. PRECAST CONCRETE  
WATER CONTROL STRUCTURE.  
SEE PLUMBING DRAWINGS

TOS @ FLAT SECTION  
0.00 UPPER PAVILION  
0.00 LOWER PAVILION

5" CONCRETE SLAB

#4 @ 10" OC, EW

### 20' TANK SLAB PLAN

---

3/4" = 1'-0"

1'-4"

1'-3"

1/2"

R 10'-6"

R 10'-0"

SLOPE

21 3/4X1 3/4X3/16 ALUMINUM  
WITH 1/2"Øx6" LONG HEADED  
ALUMINUM STUDS SPACED AT  
12" OC MITER AND WELD  
CORNER TOGETHER. GRIND  
WELDS TO PROVIDE A SMOOTH  
FLUSH SURFACE

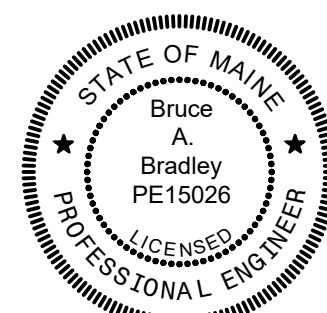
— (2) #4 x 5'-0" LONG PLACED MID-DEPTH IN SLAB AT CORNERS —

TOC @ RIM  
244.92 UPPER PAVILION  
240.83 LOWER PAVILION

TO5 @ SUMP PIT  
243.92 UPPER PAVILION  
239.83 LOWER PAVILION

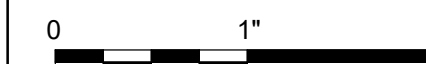
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<b>PROJECT MANAGER</b>	ANDREW GURSKI
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ELECTRICAL	A. KANER
<b>PROJECT NUMBER</b>	10357686



## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

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



<b>FILENAME</b>	10353741-03-S.rvt
<b>SCALE</b>	3/4" = 1'-0"

SHEET  
**03S-103**

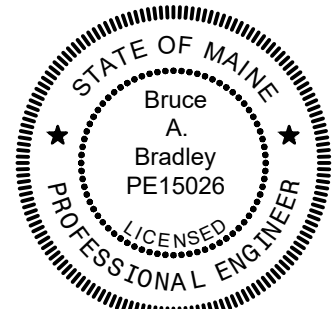


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IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

UPPER / LOWER TANK PAVILIONS  
20' DIAMETER TANK FOUNDATION DETAILS

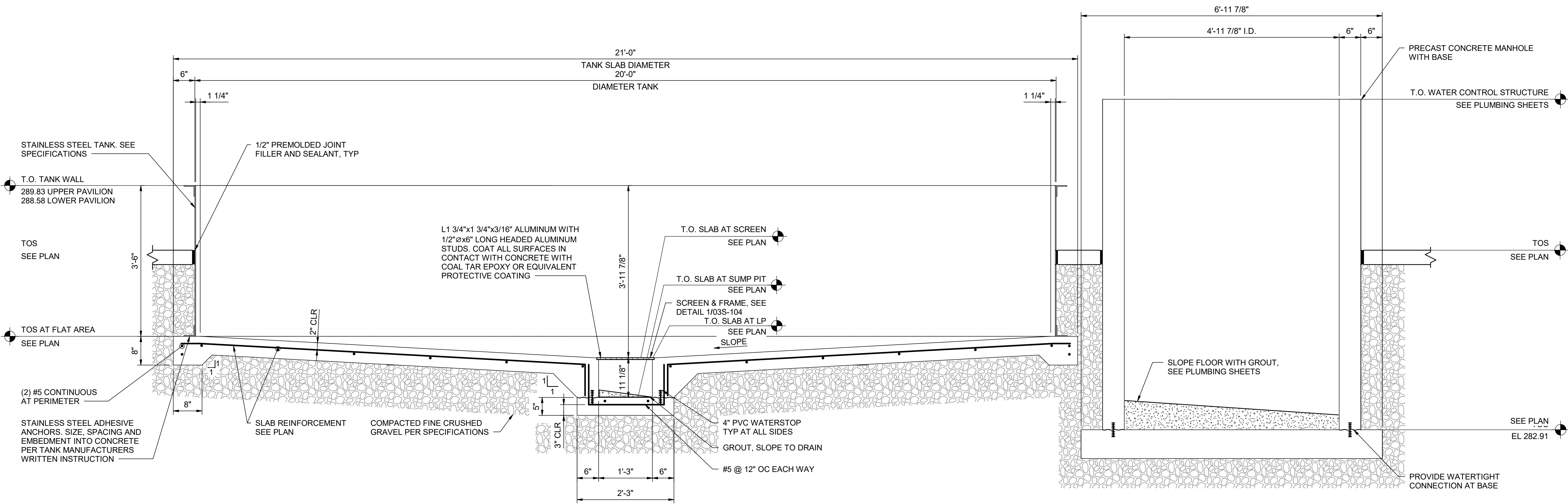


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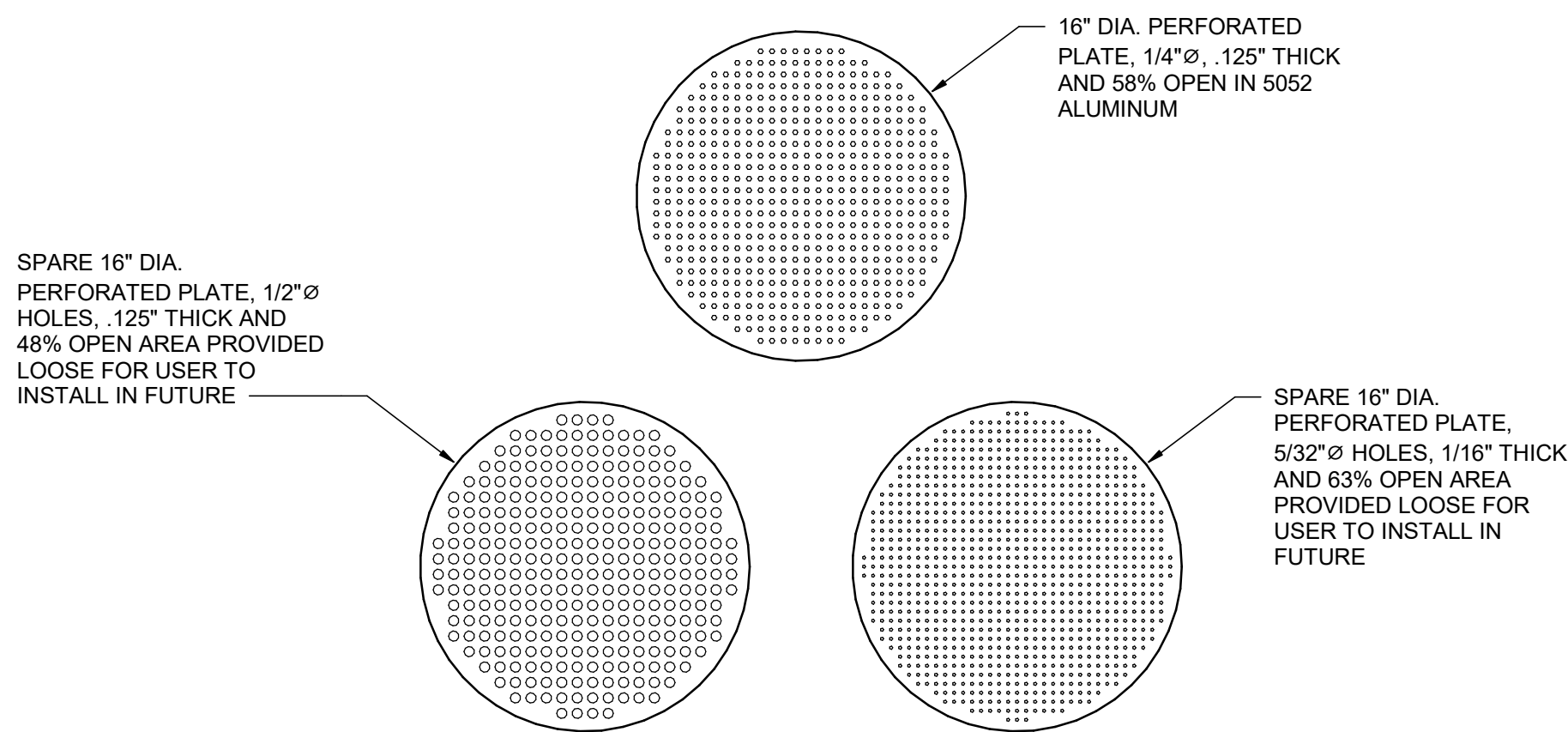
SHEET  
03S-104

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.



A 20' DIAMETER TANK SECTION  
03S-103 3/4" = 1'-0"

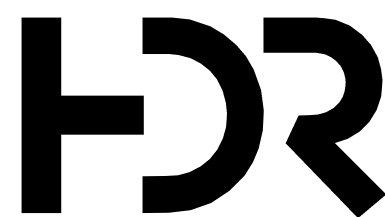


NOTES:

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

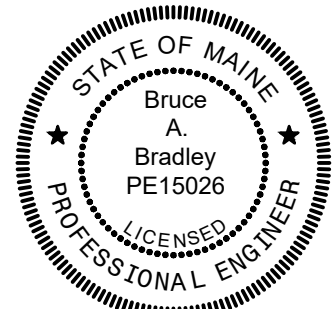
1 SCREEN DETAILS  
1 1/2" = 1'-0"

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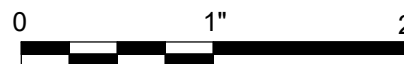
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ISSUE DATE DESCRIPTION

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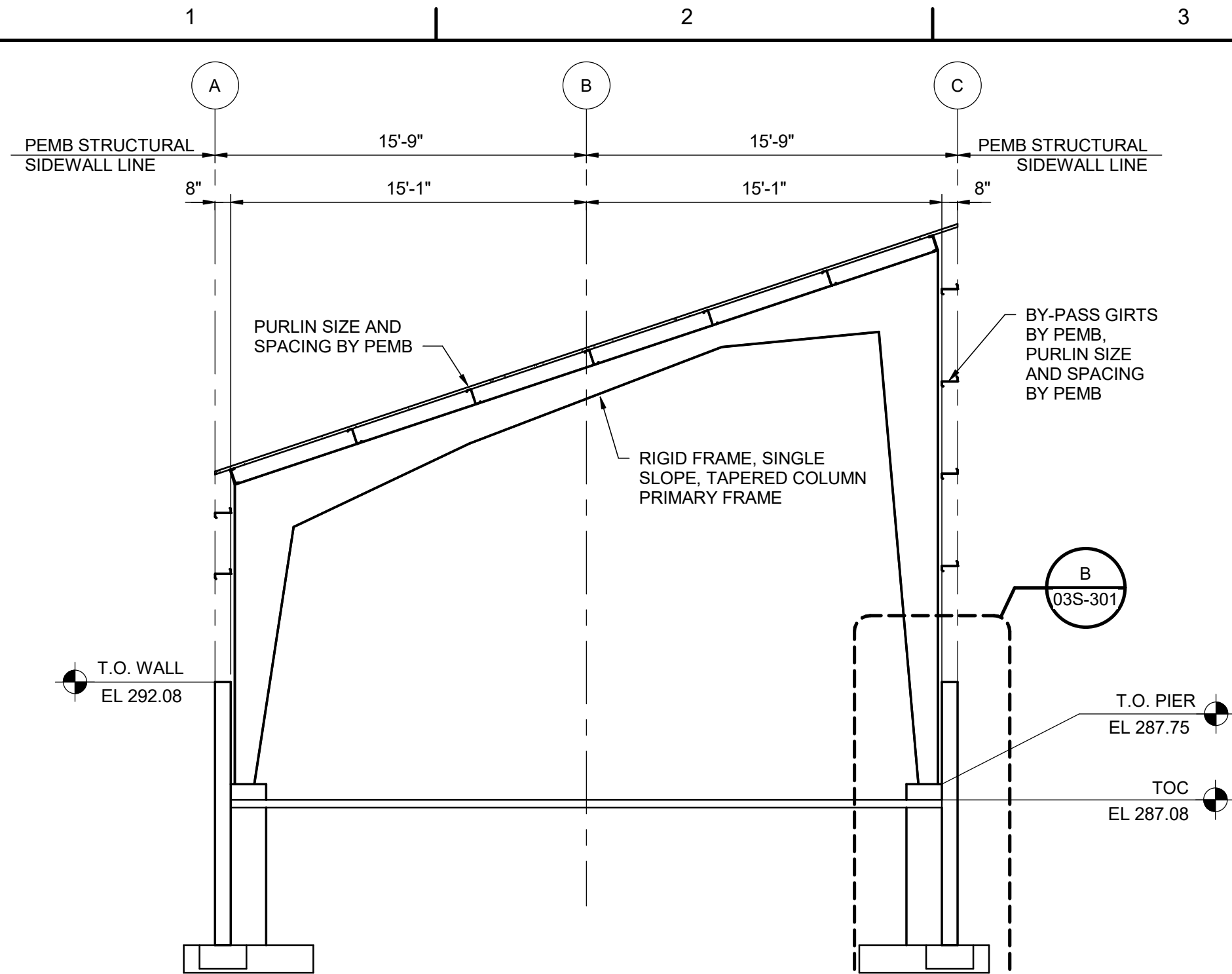
## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

### LOWER PAVILION SECTIONS

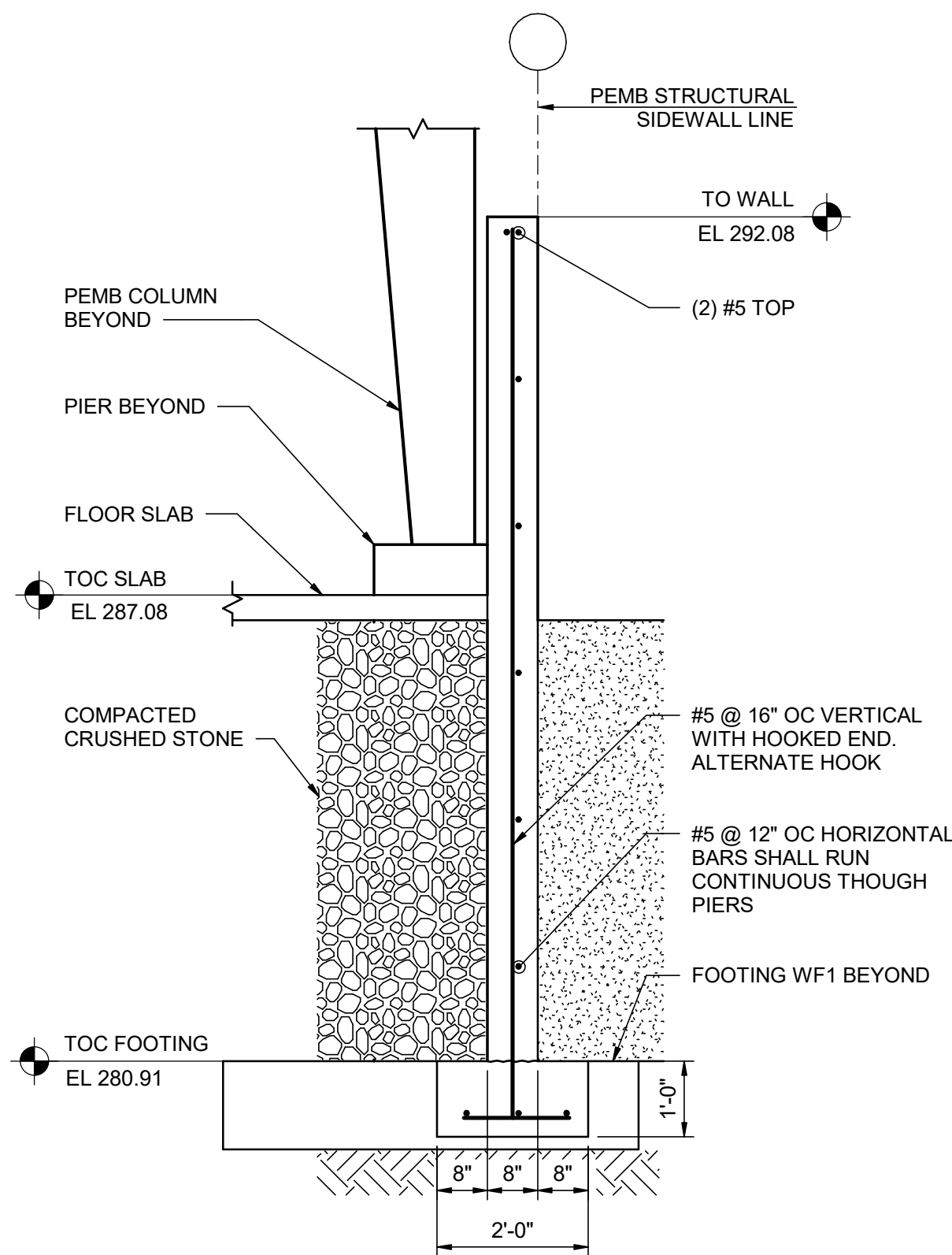


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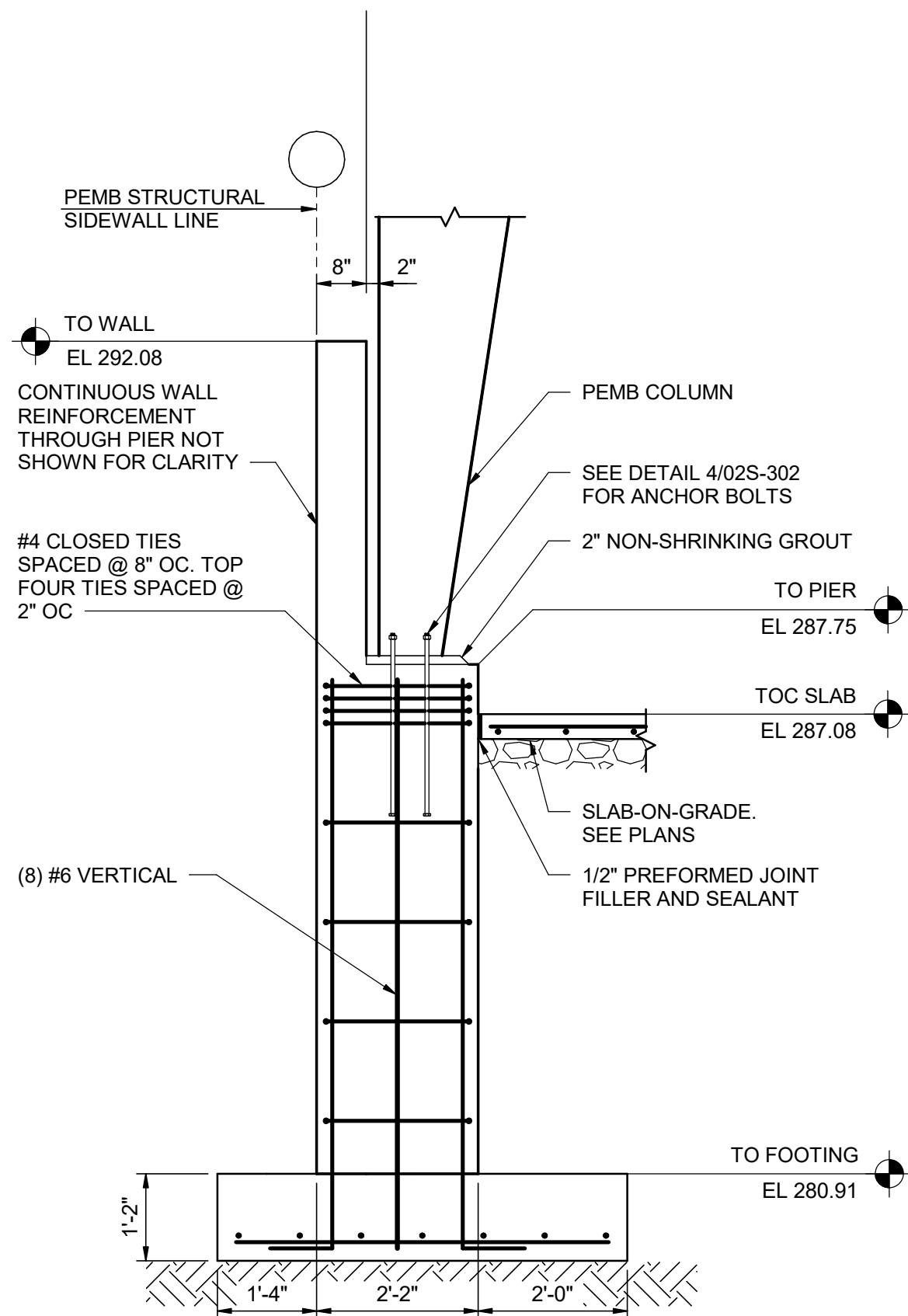
SHEET  
03S-301



**SECTION A**  
03S-101 3/16" = 1'-0"

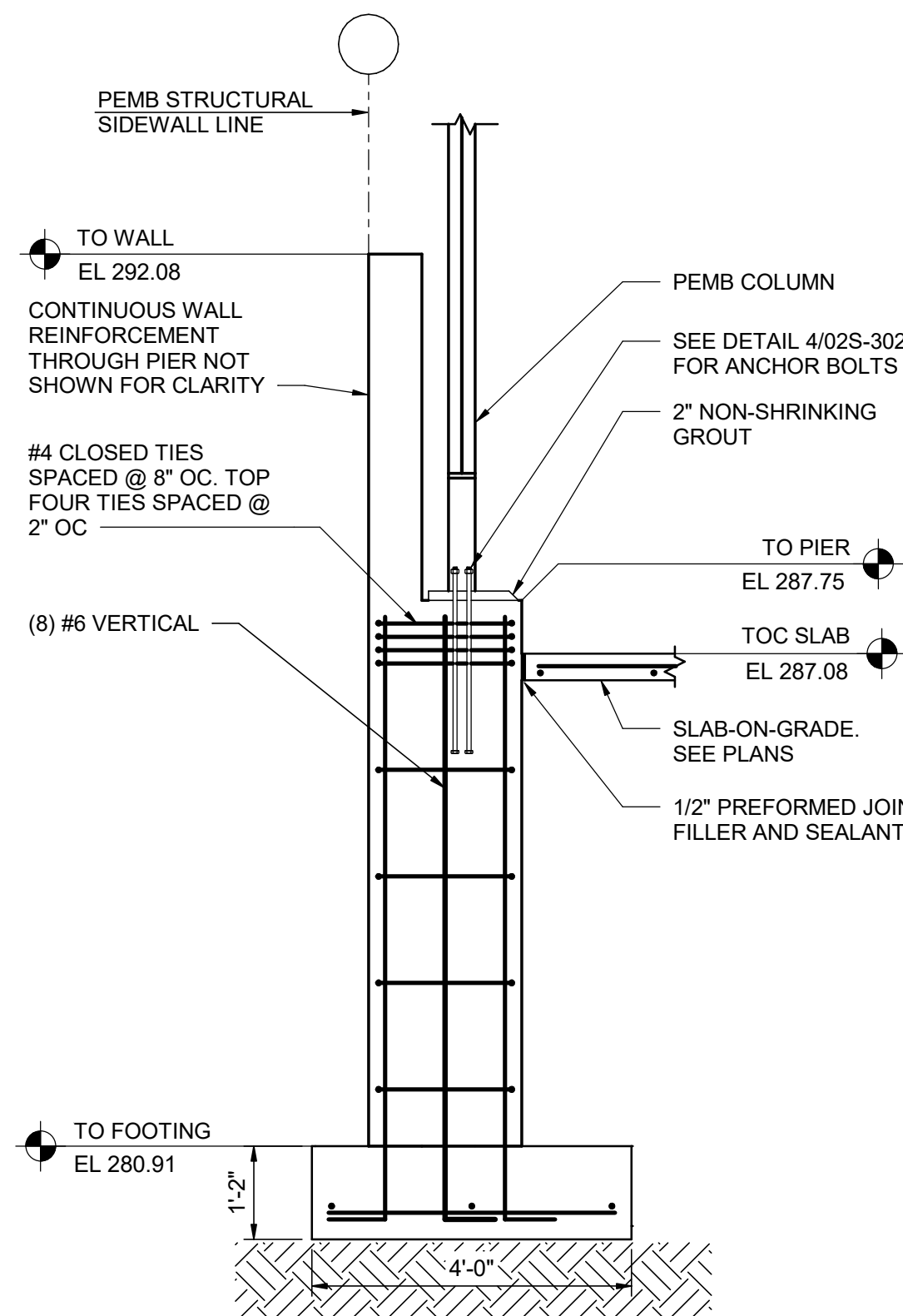


**SECTION B**  
03S-301 1/2" = 1'-0"

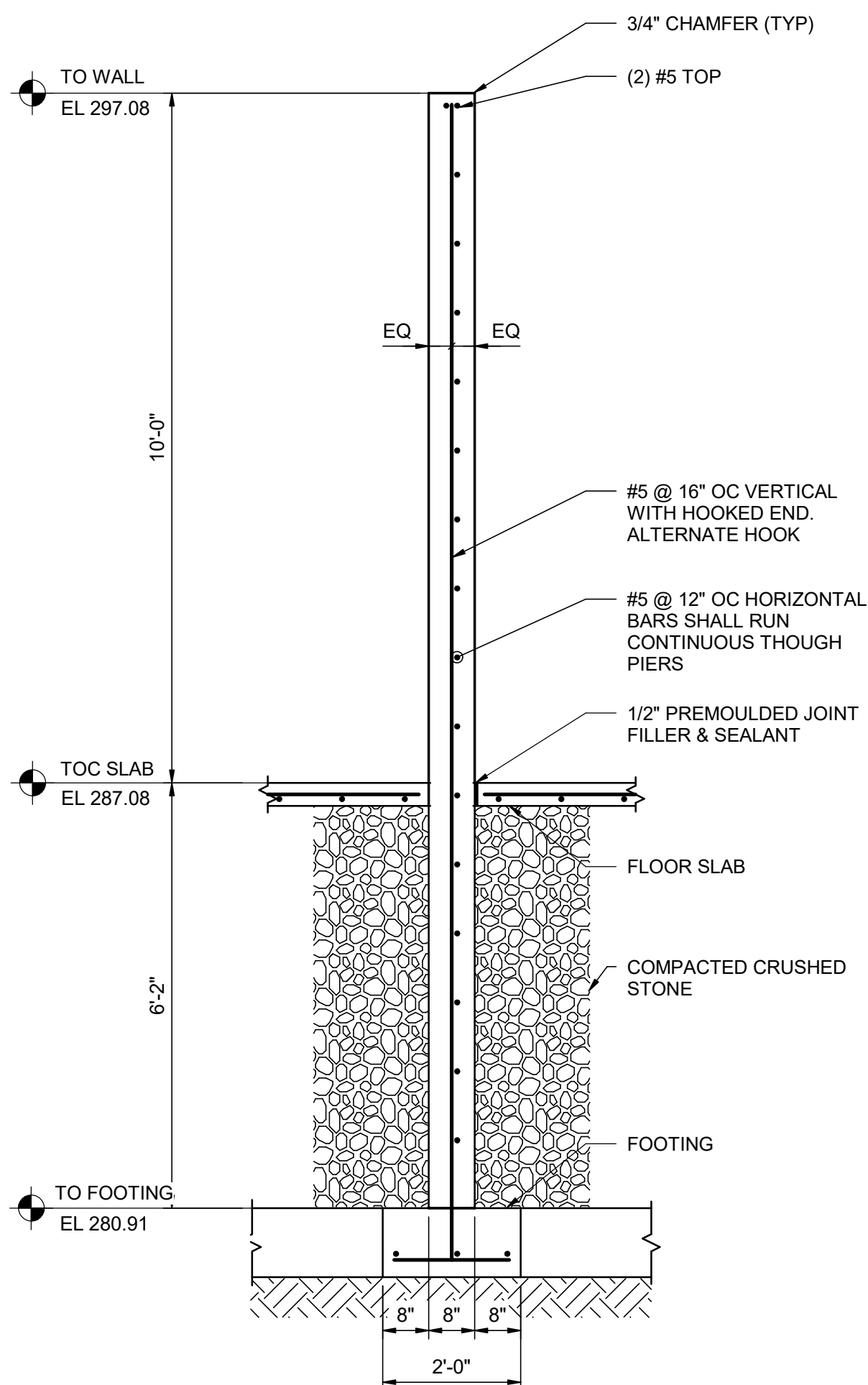


NOTE:  
CAST WALL SECTION INTEGRAL WITH PIER. TYPICAL  
AT ALL PIER LOCATIONS.

**SECTION C**  
03S-101 1/2" = 1'-0"



**SECTION D**  
03S-101 1/2" = 1'-0"



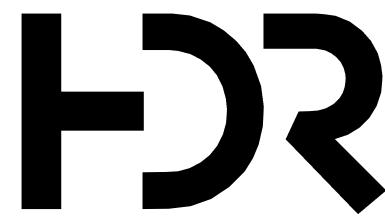
**SECTION E**  
03S-101 1/2" = 1'-0"





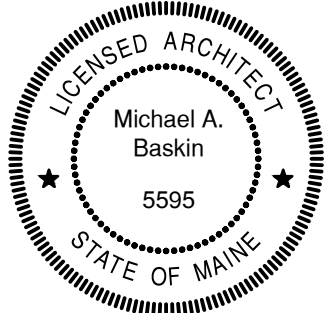


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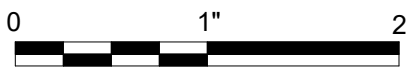
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STRUCTURAL	B. BRADLEY	
ARCHITECTURAL	M. BASKIN	
PROCESS	J. CHANDLER	
MECHANICAL	J. CHANDLER	
ELECTRICAL	A. KANER	
PROJECT NUMBER		10357686



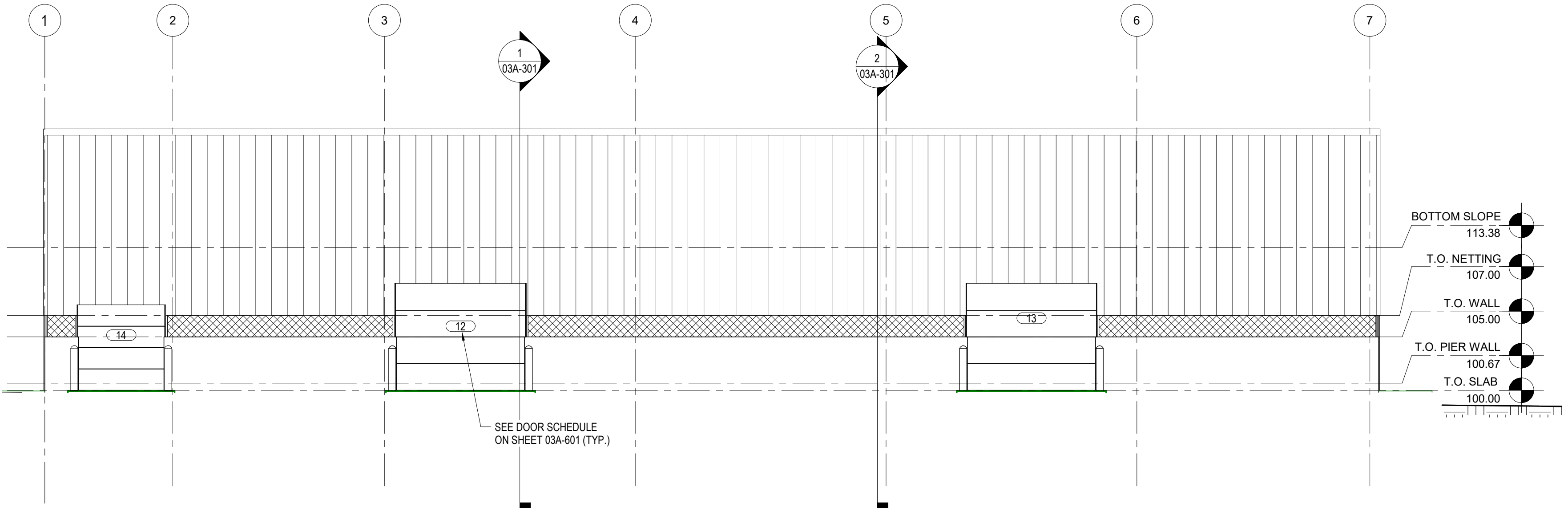
IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

LOWER PAVILION EXTERIOR ELEVATIONS

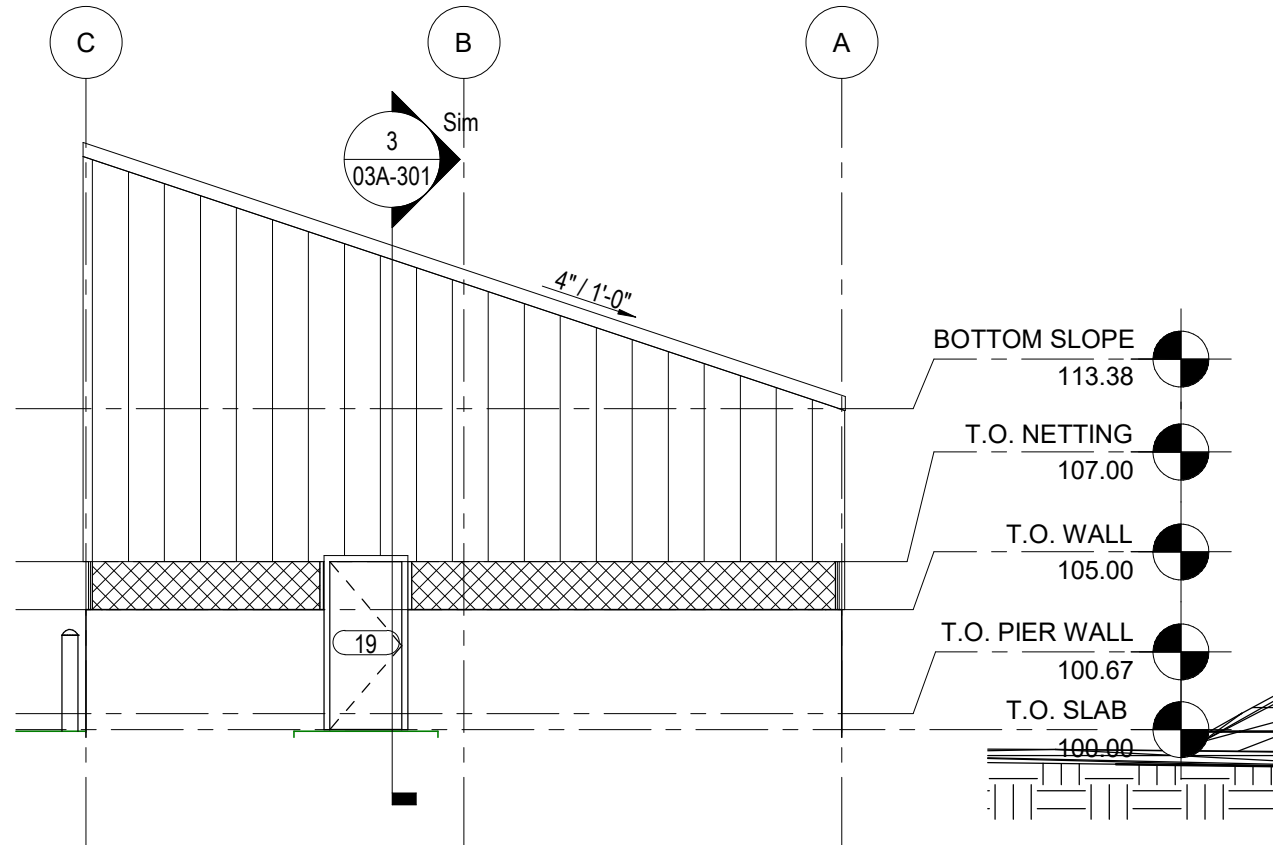


FILENAME  
SCALE 1/8" = 1'-0"

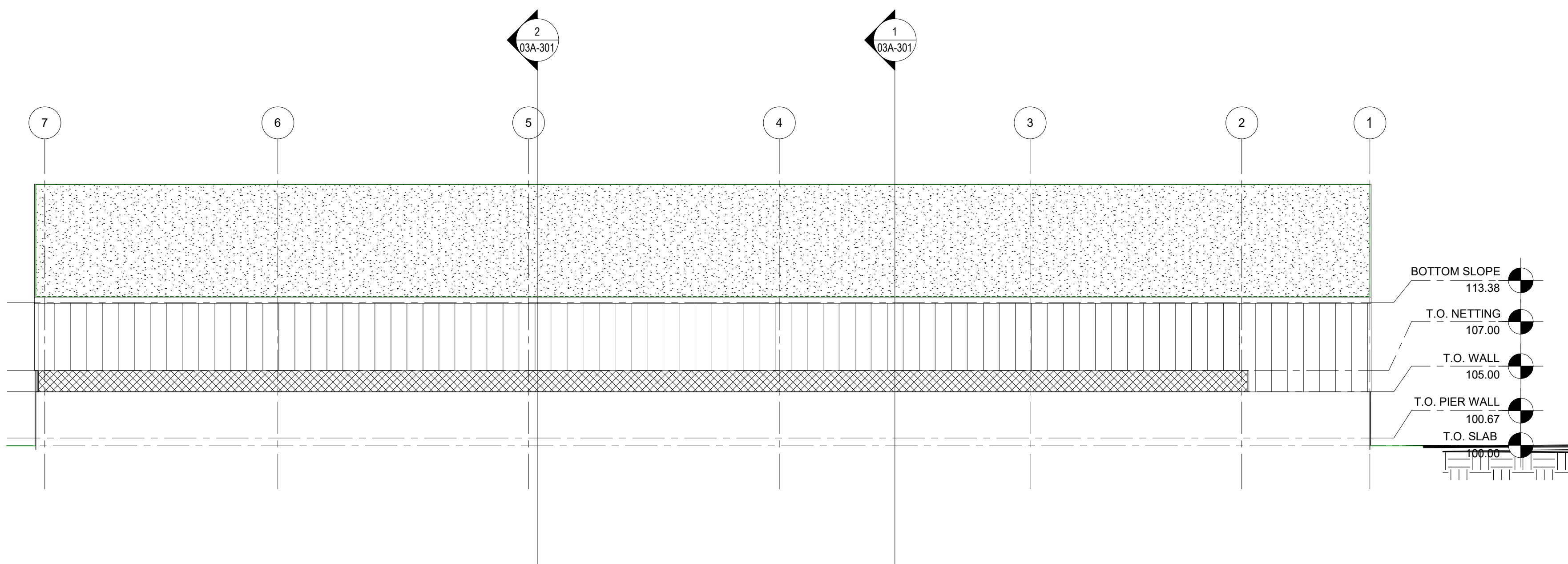
SHEET  
03A-201



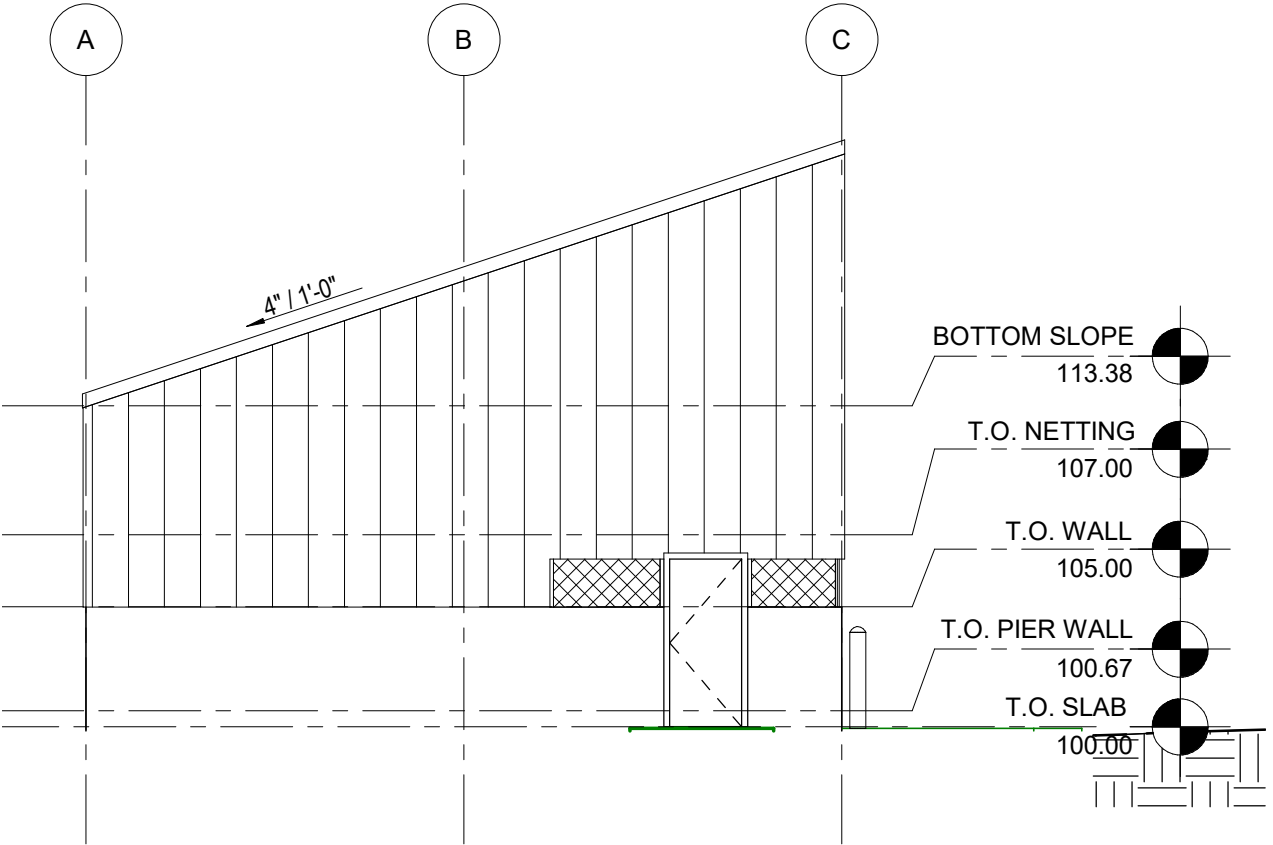
3 PAVILION SOUTH ELEVATION  
1/8" = 1'-0"



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

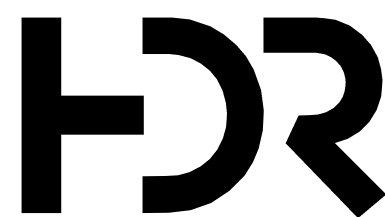


2 PAVILION NORTH ELEVATION  
1/8" = 1'-0"



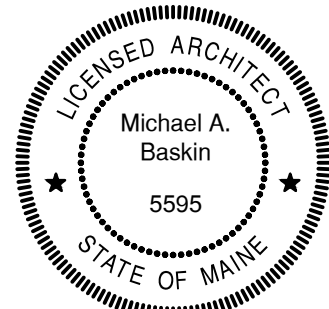
4 PAVILION WEST ELEVATION  
1/8" = 1'-0"

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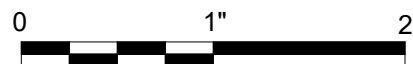
05/03/2024	ISSUED FOR BID	
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ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



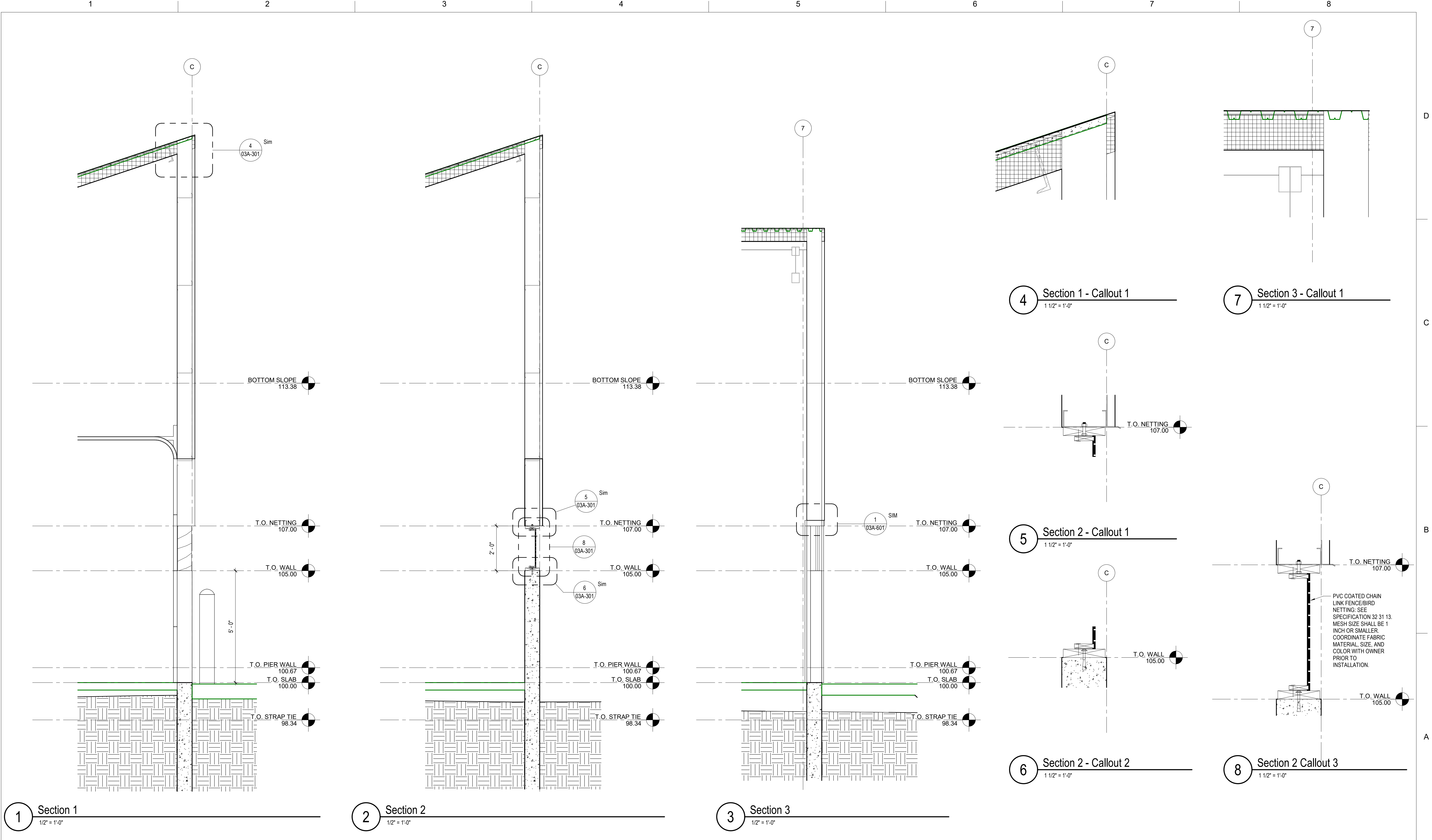
IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

LOWER PAVILION WALL SECTIONS & DETAILS

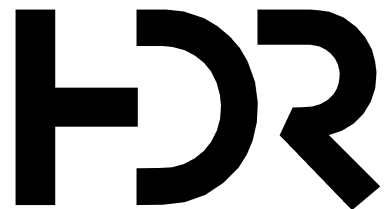


FILENAME	
SCALE	As indicated

SHEET
03A-301



Autodesk Docs\\10357686\_MaineDIF\_GrandLakeStream\_Exp\_2022\\2022\_10357686-A-Maine DIF\_GrandLakeStream EXP.rvt  
5/16/2024 8:41:52 AM



05/03/2024 ISSUED FOR BID		
ISSUE	DATE	DESCRIPTION

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

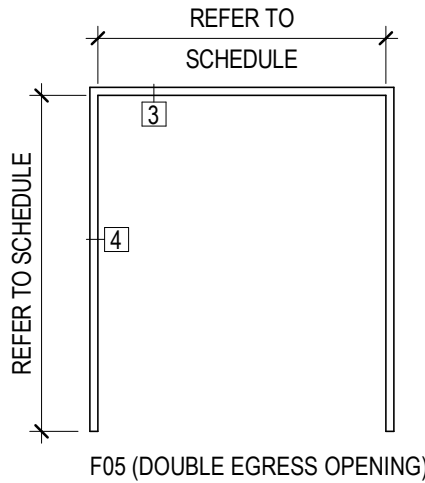
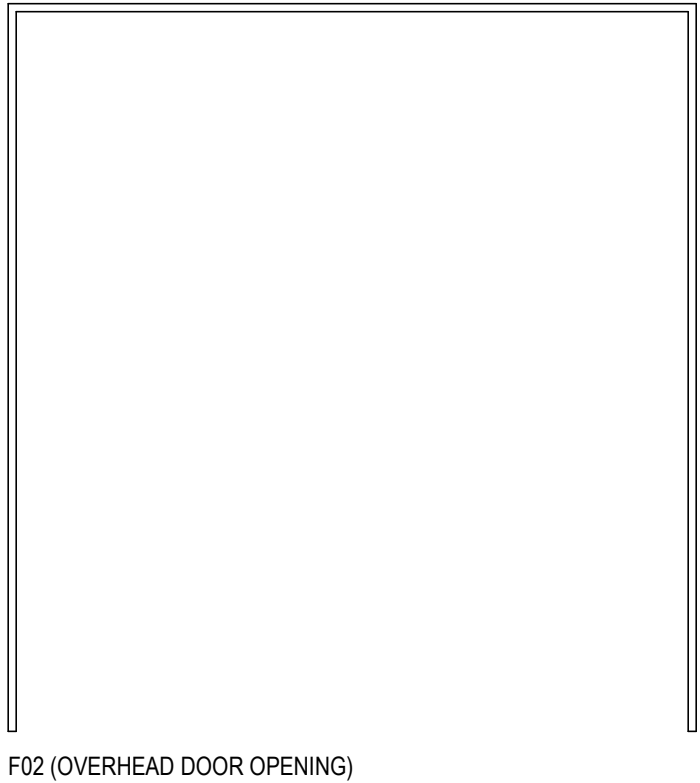
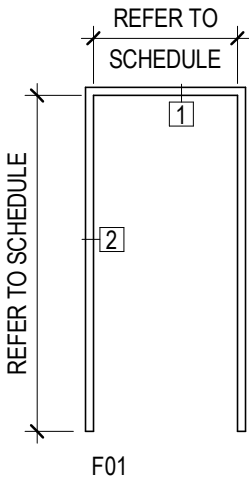
LOWER PAVILION DOOR SCHEDULE AND DETAILS



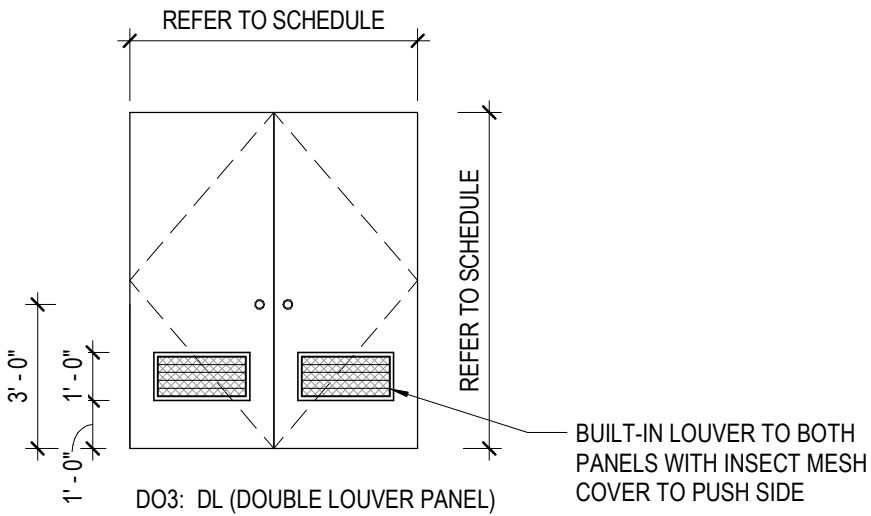
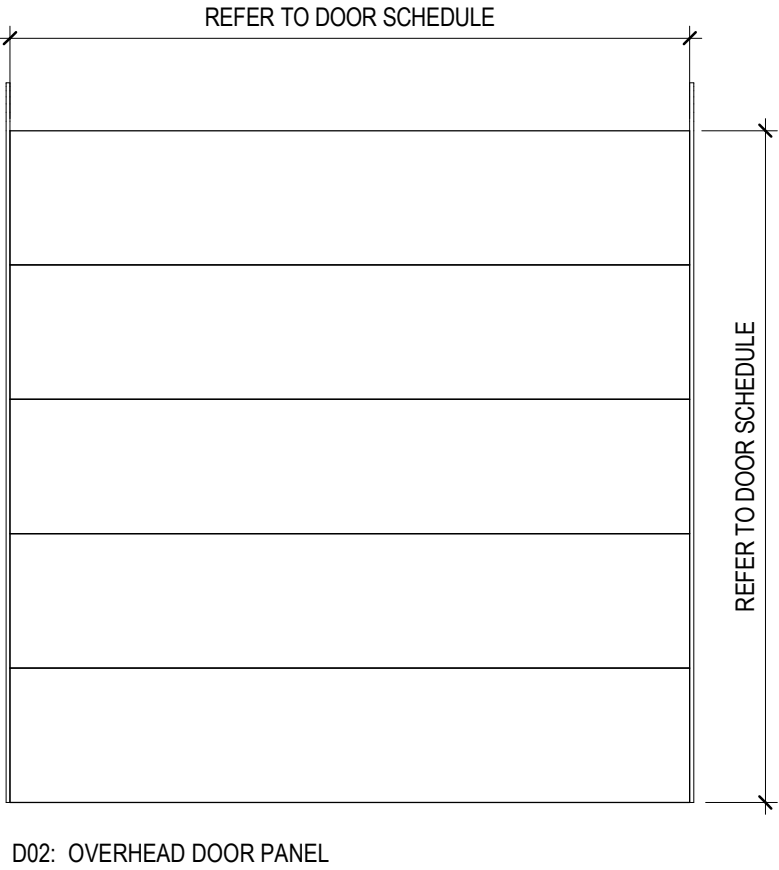
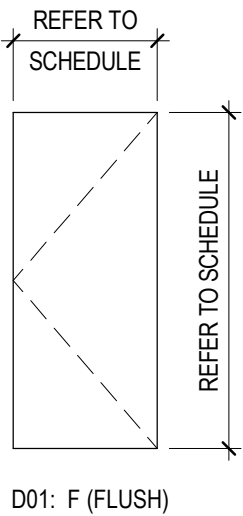
FILENAME  
SCALE As indicated

SHEET  
03A-601

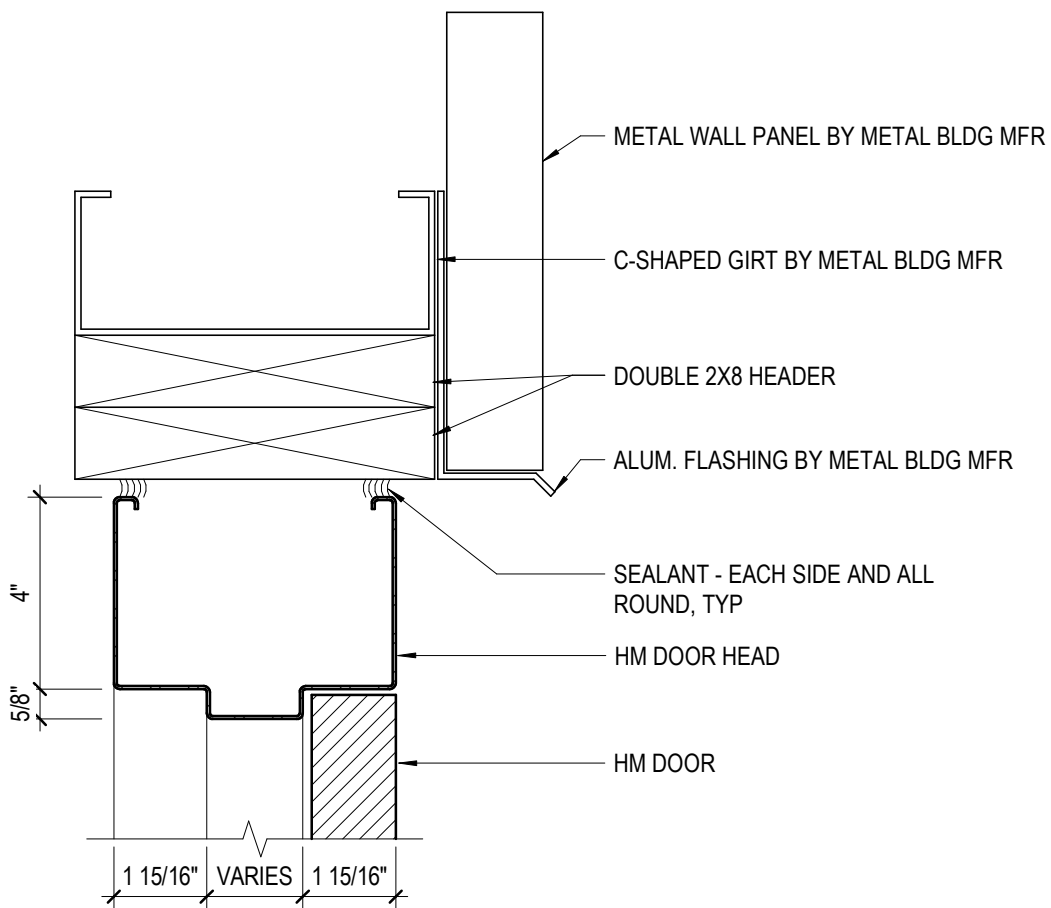
DOOR AND FRAME SCHEDULE																	
IDENTIFICATION				DIMENSIONS					DOOR TYPE	PANEL		FRAME			FIRE RATING	HARDWARE GROUP	NOTES
LEVEL	ROOM NO.	ROOM NAME	DOOR NO.	OPENING WIDTH			H	T		Material	Finish	TYPE	Material	Finish			
				W1	W2	Total Width											
T.O. SLAB	301	FEED STORAGE	15	3'-0"	3'-0"	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"	8' - 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	



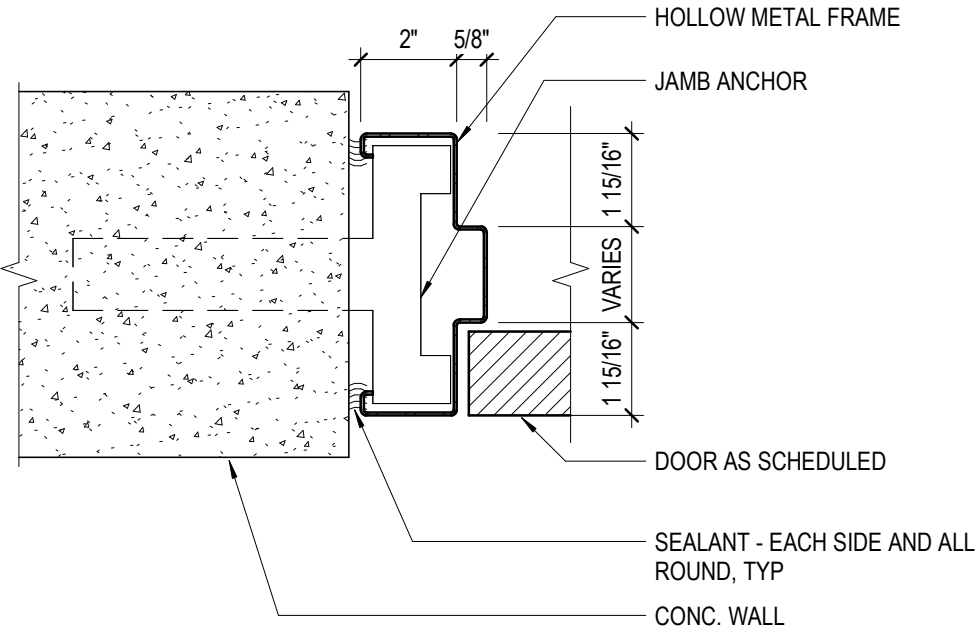
DOOR FRAME TYPES



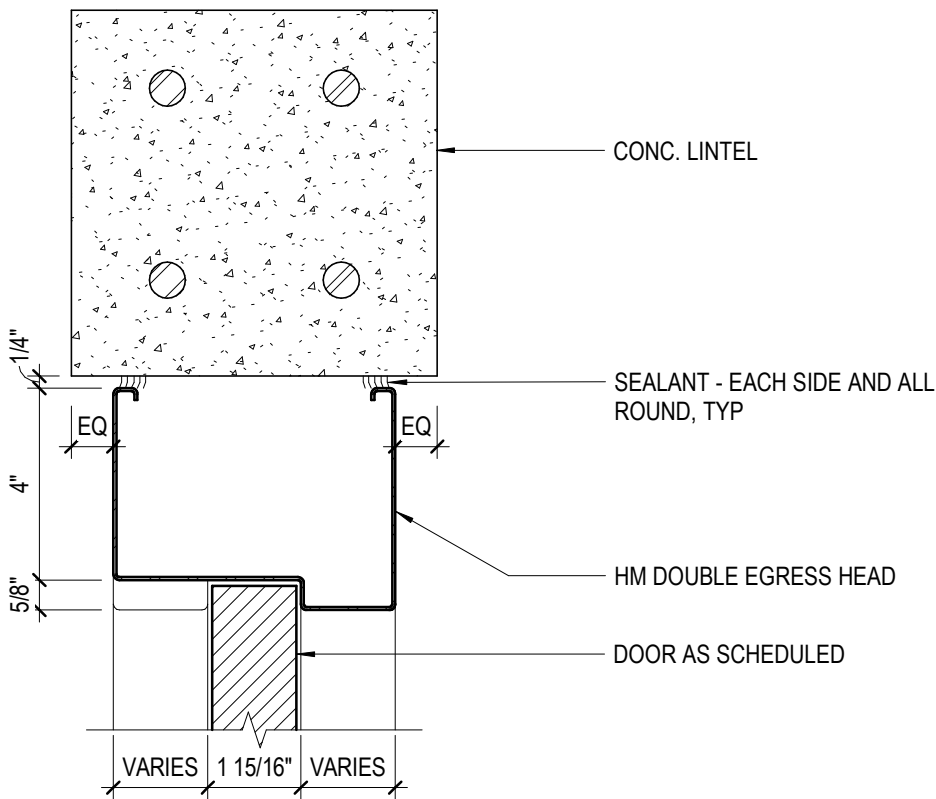
DOOR TYPES



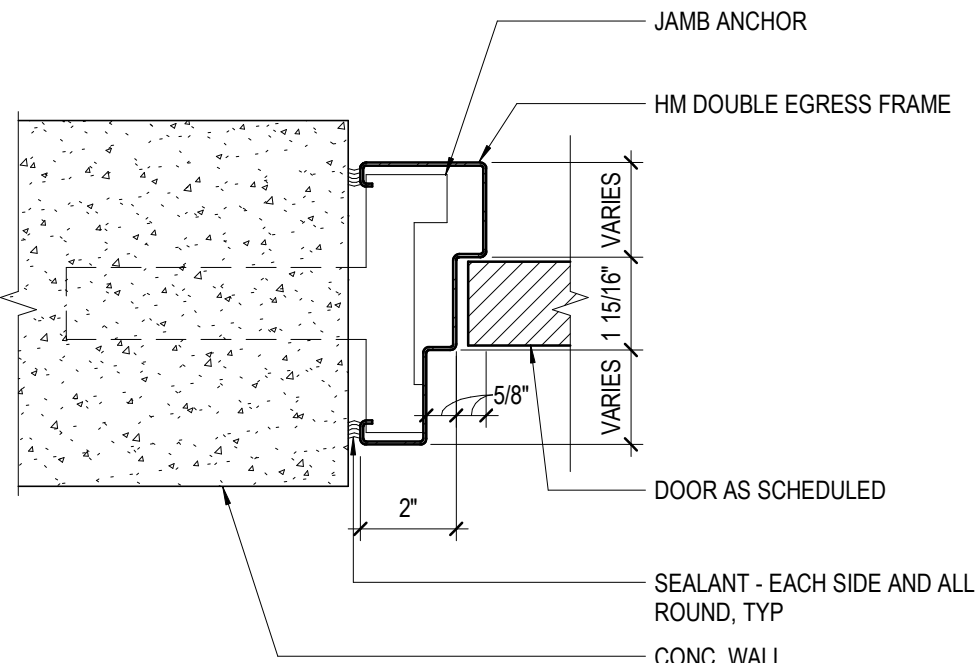
1 HEAD - HM DOOR  
3" = 1'-0"



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



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

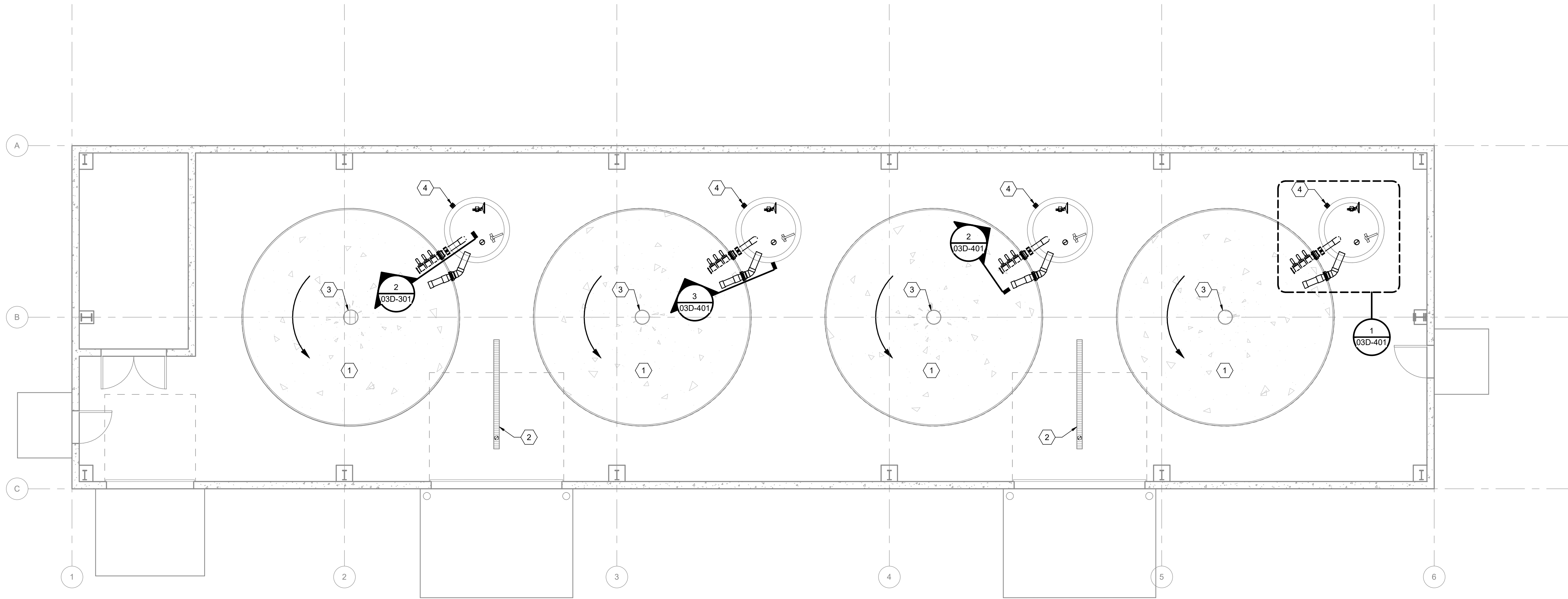


4 JAMB - HM DOUBLE EGRESS DOOR  
3" = 1'-0"

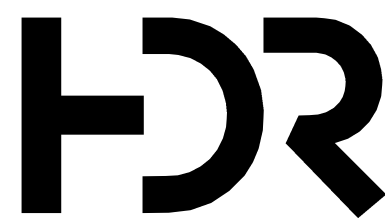
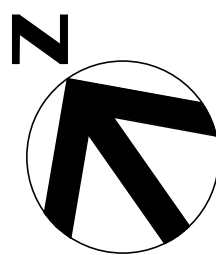
1 2 3 4 5 6 7 8

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

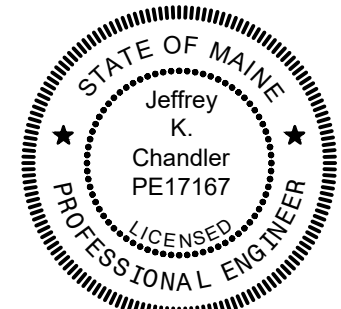


0 2' 4' 8' 1 ABOVE FLOOR PROCESS PIPING PLAN 3/16" = 1'-0"



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

LOWER PAVILION ABOVE FLOOR PROCESS PIPING PLAN



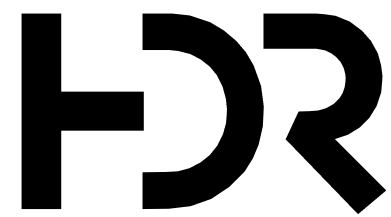
FILENAME 10353741-03-D.rvt  
SCALE 3/16" = 1'-0"

SHEET  
03D-101



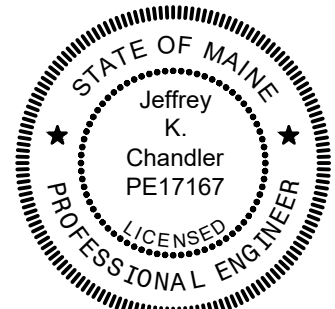


Autodesk Docs\\10357686\_Main\\DIF\_GrandLake Stream Exp\_2022\\10357686-03-D.rvt  
5/16/2024 8:44:08 AM



05/03/2024 ISSUED FOR BID  
ISSUE DATE DESCRIPTION

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



## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

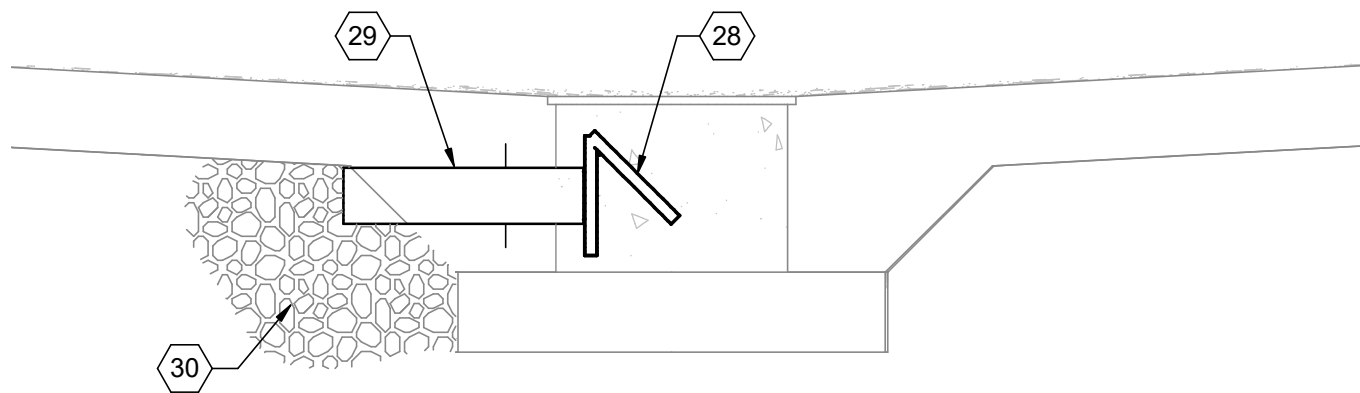
### LOWER PAVILION TANK SECTIONS



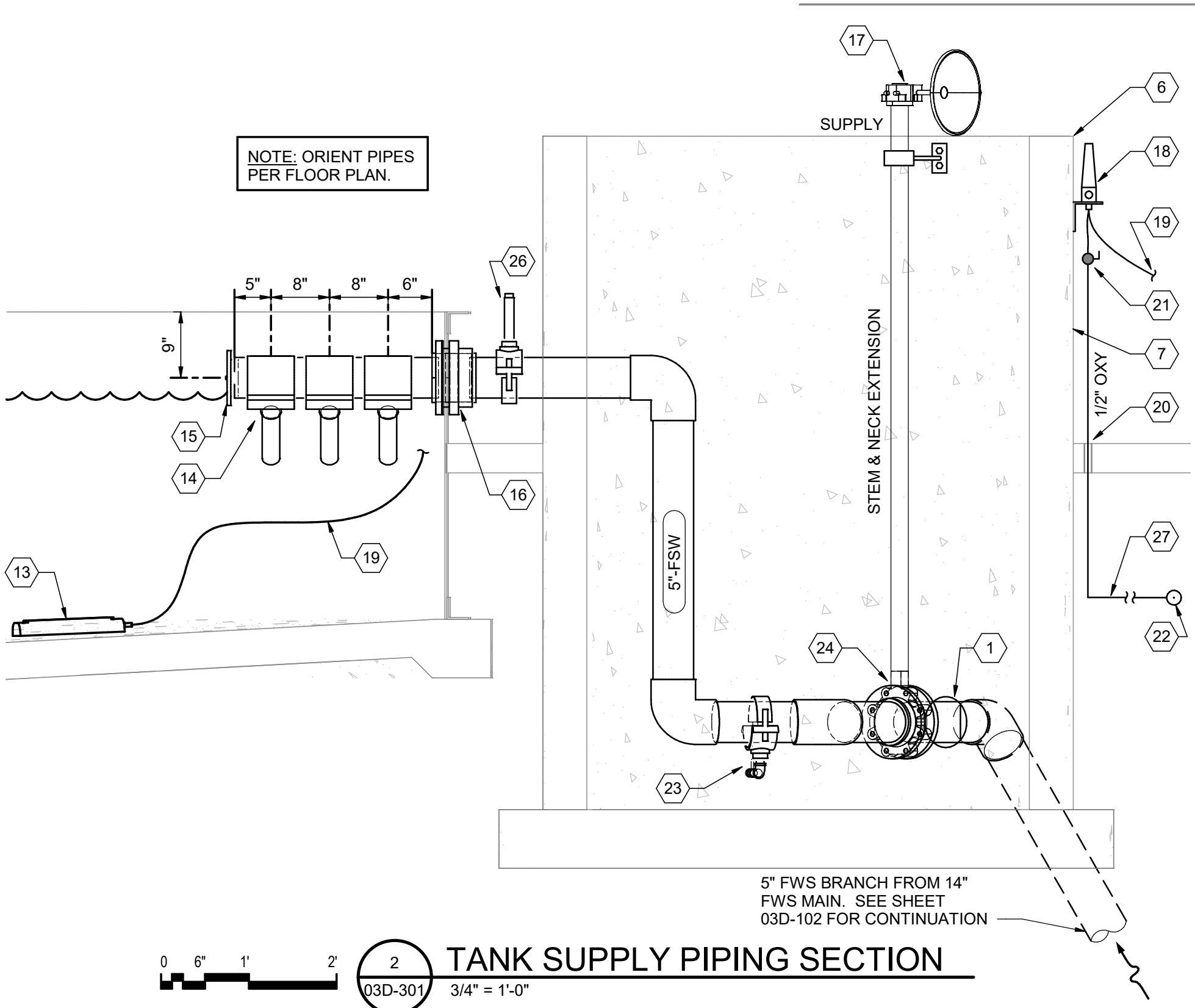
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SCALE As indicated

SHEET  
03D-301

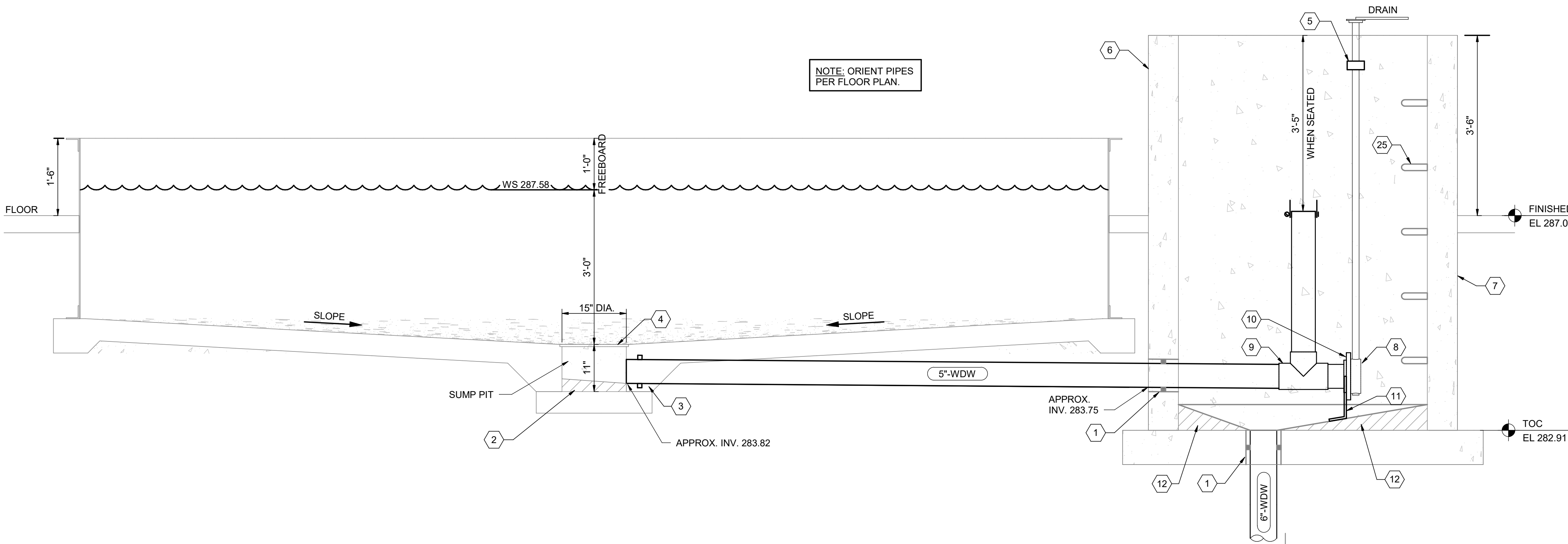
3 PAVILION HYDROSTATIC PRESSURE RELIEF SECTION  
03D-301 1" = 1'-0"



2 TANK SUPPLY PIPING SECTION  
03D-301 3/4" = 1'-0"



1 TANK DRAIN PIPING SECTION  
03D-301 3/4" = 1'-0"

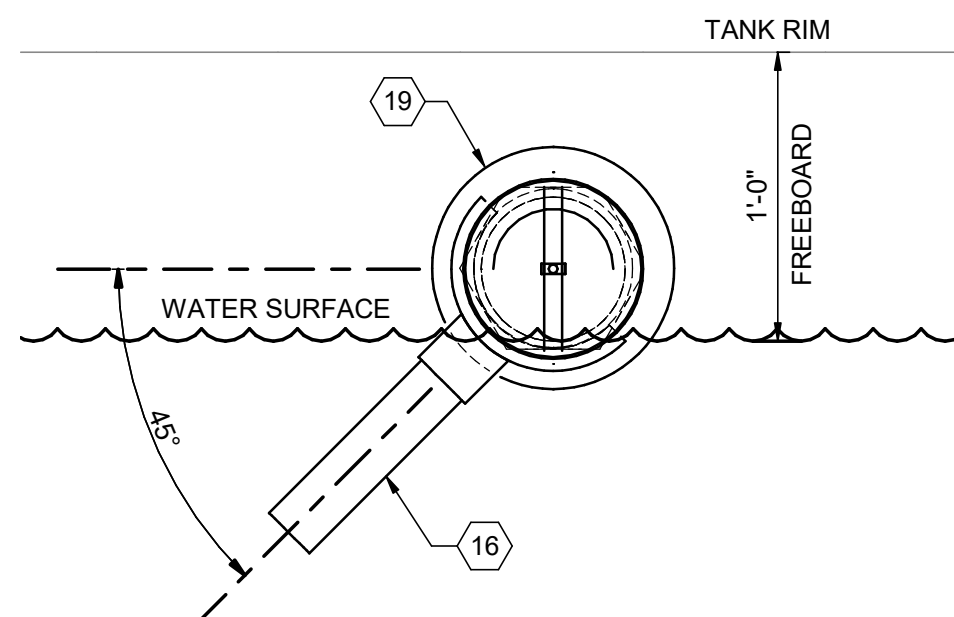


#### KEYED NOTES #

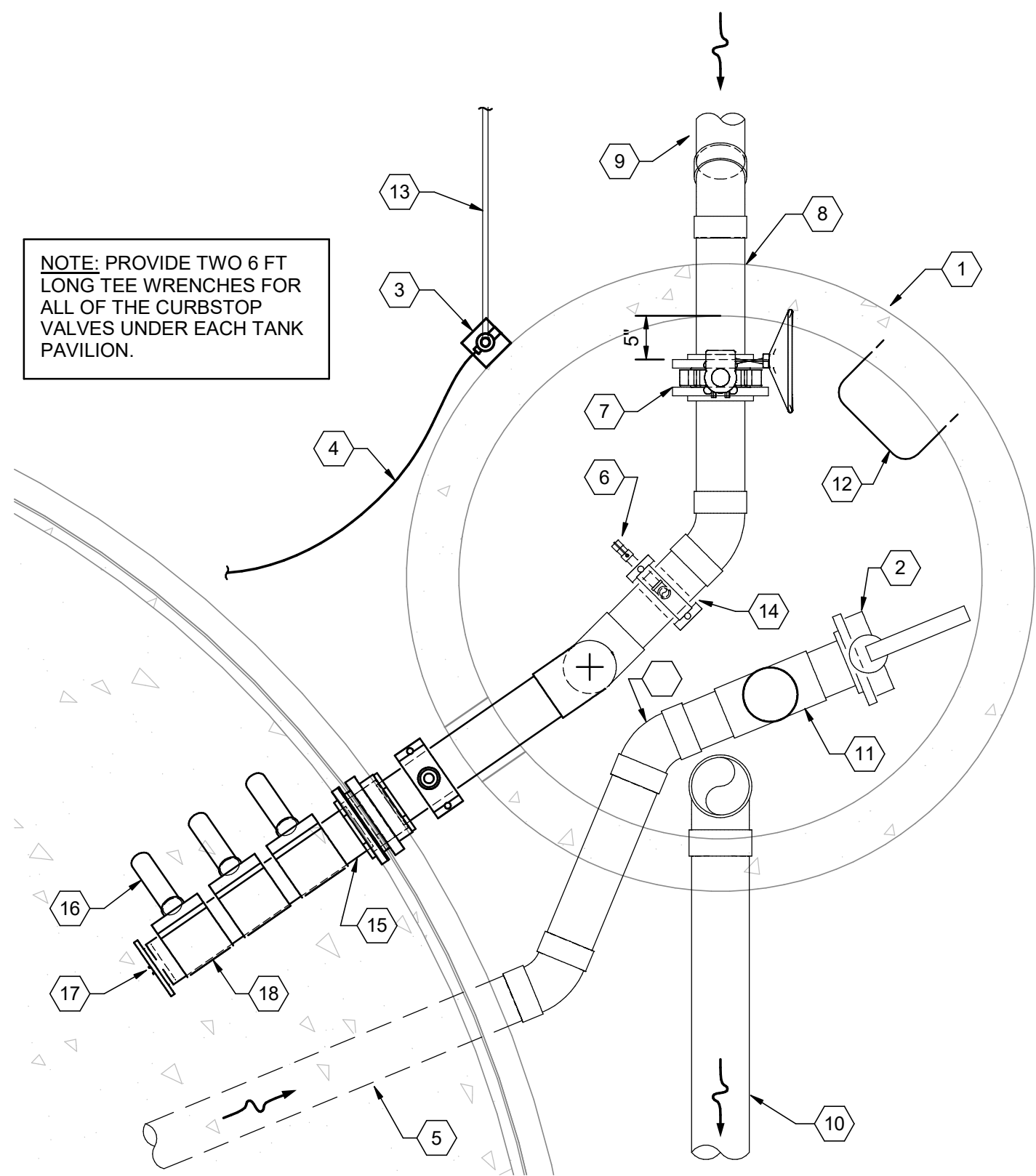
- LINKAGE TYPE SEAL
- SLOPE GROUT TO DRAIN
- FIELD APPLIED NON-SWELLING WATERSTOP
- FISH SCREEN PER STRUCTURAL SHEETS
- GALV. OR SS VALVE & NECK SUPPORT 2" CLEAR BELOW MANHOLE RIM FOR EACH VALVE
- VALVE BASIN
- TOPLESS MANHOLE WITH STEPS & CLEAN, SMOOTH OVER SURFACE
- BUTTERFLY VALVE WITH STEM & NECK EXTENSION
- SCH 40 PVC TEE SHOWN WITHOUT UPSTREAM 45 DEGREE BEND FOR CLARITY, INCLUDE BEND & ORIENTATE PER PLAN 1/03D-401
- PVC ONE-PIECE SOCKET FLANGE
- SUPPORT FLANGE OR PIPE TO GROUT W/ SS HARDWARE
- GROUT SLOPED ALL AROUND TO DRAIN
- CERAMIC OXYGEN DIFFUSER
- ORIENT NOZZLES SIMILAR TO DETAIL 2/03D-401.
- EXPANSION PLUG
- PVC BULKHEAD/ TANK ADAPTER (SOCKET x SOCKET)
- WEATHERPROOF GEAR OR LEVER WITH AT LEAST 13 POSITIONS WITHOUT WING NUTS & WITHOUT SET SCREWS
- SS BRACKET MOUNTED THORPE STYLE OXYGEN METER (0-7 SLPM) WITH TOP 1" B.T.O.C., SHOWN ON OPPOSITE SIDE FOR CLARITY, LOCATE PER PLAN
- 1/4" HOSE TO OXYGEN DIFFUSER
- TYP. PIPE PENETRATION THRU FLOOR
- CONNECT ISOLATION BALL VALVE TO METER WITH ADAPTERS AND HOSE OR COPPER PIPE
- 1/2" OXY MAIN APPROX. 21" BELOW FLOOR
- CURBSTOP VALVE WITH SEMI-PERMANENT SQUARE OPERATOR FROM WINTERIZATION/DRAIN
- BUTTERFLY VALVE (FISH TANK SUPPLY VALVE)
- MANHOLE STEPS
- 5" PVC SADDLE TAP W/ 1" SIGHT GLASS
- BURIED 1/2" OXY
- 3" HYDROSTATIC PRESSURE RELIEF VALVE EQUAL TO PENN-TROY A2580
- FLANGED WALL PIPE WITH ANTI-SEEP RING & SCREEN
- CLEAN CRUSHED STONE

KEYED NOTES #

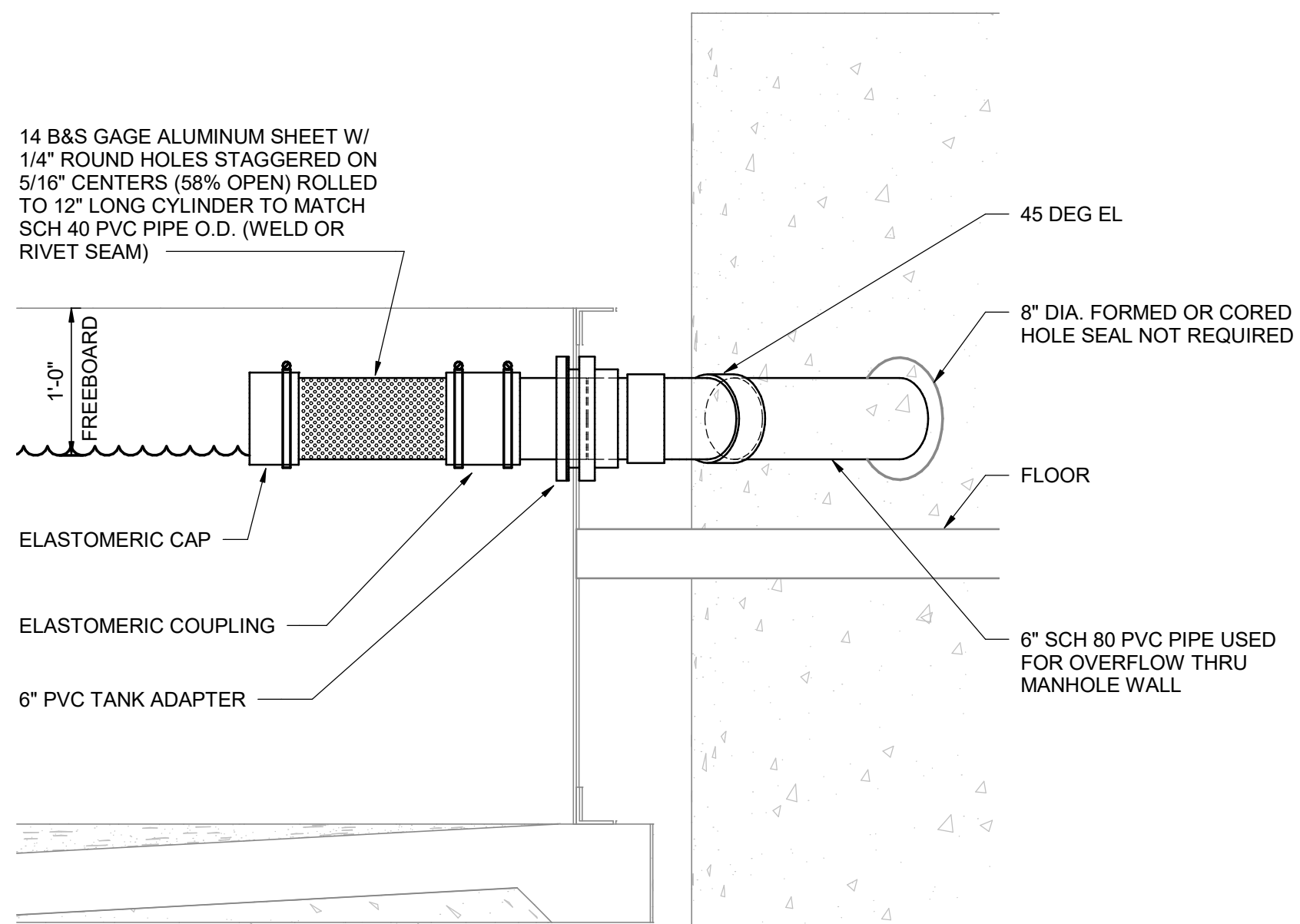
- 1 TYP. 5'-0" ID VALVE BASIN
- 2 BUTTERFLY VALVE WITH STEM & NECK EXTENSION
- 3 OXY METER
- 4 1/4" HOSE TO OXYGEN DIFFUSER
- 5 5" DRAIN & OW FROM FISH TANK
- 6 CURBSTOP VALVE WITH SEMI-PERMANENT SQUARE OPERATOR FROM WINTERIZATION/DRAIN
- 7 BUTTERFLY VALVE (FISH TANK SUPPLY VALVE)
- 8 DUCTILE IRON PIPE THRU LINKAGE SEAL
- 9 5" SUPPLY FROM 14" 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



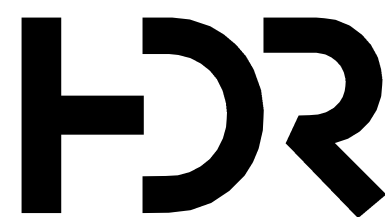
2 **SUPPLY HEADER END SECTION**  
03D-401 NOT TO SCALE



1 **ENLARGED UPPER PAVILION VALVE BASIN PLAN**  
03D-401 3/4" = 1'-0"

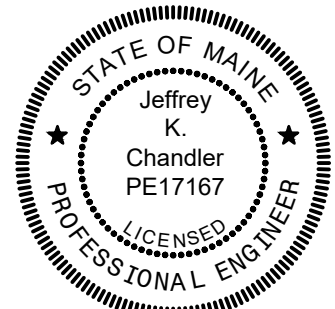


3 **OVERFLOW PIPING DETAIL**  
03D-401 NOT TO SCALE



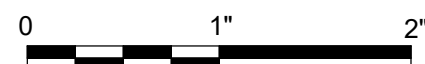
05/03/2024 ISSUED FOR BID		
ISSUE	DATE	DESCRIPTION

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

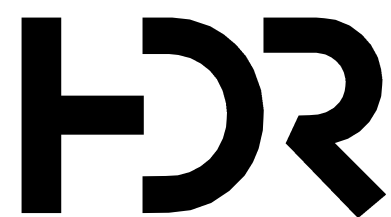
## LOWER PAVILION ENLARGED PLAN & DETAILS



FILENAME 10353741-03-D.rvt  
SCALE As indicated

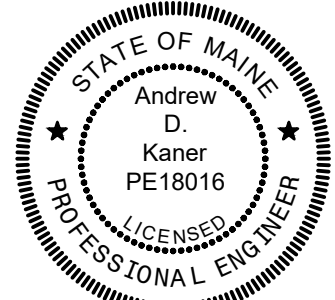
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**03D-401**

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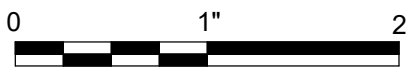


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CIVIL	J. GAGNON
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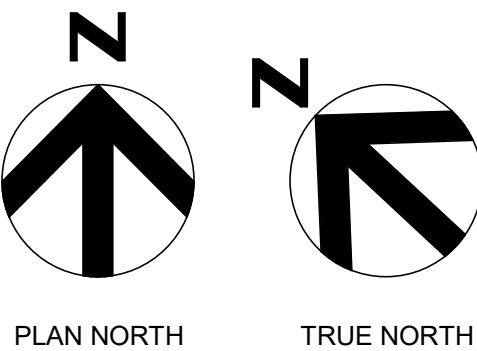


IMPROVEMENTS AT GRAND  
LAKE STREAM FISH  
HATCHERY



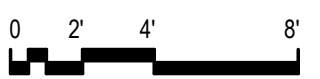
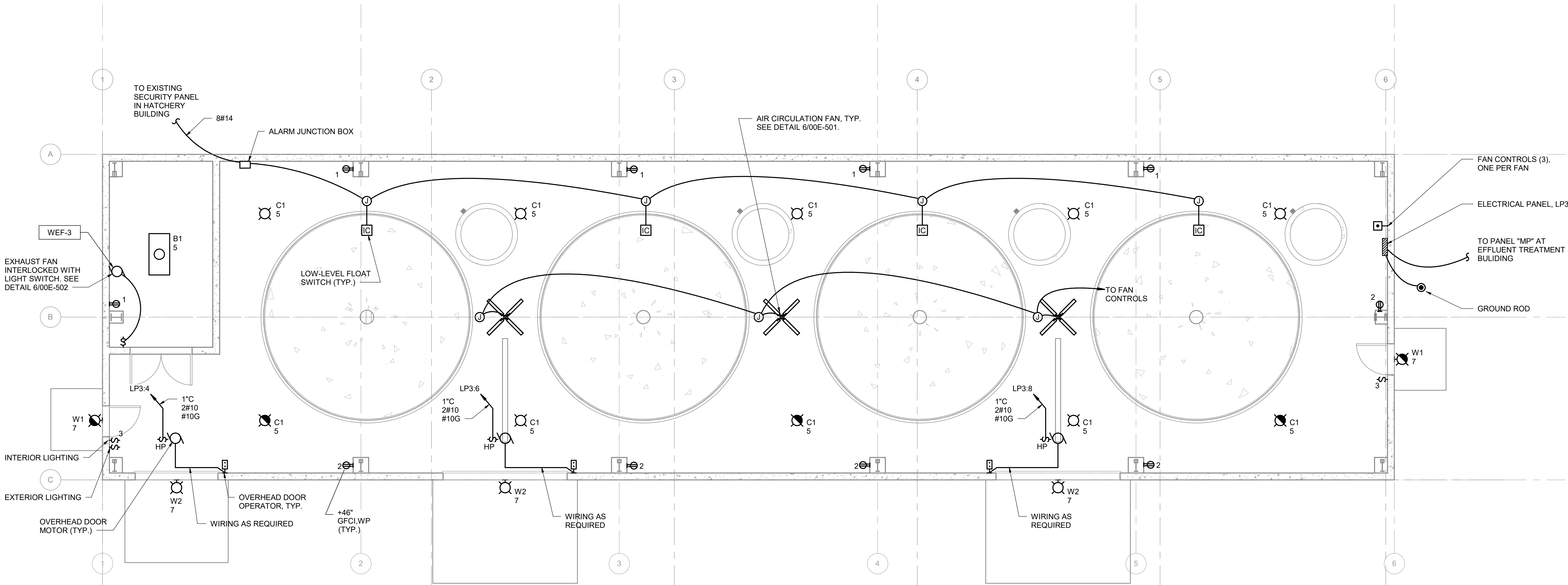
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SCALE	3/16" = 1'-0"

SHEET
03E-101



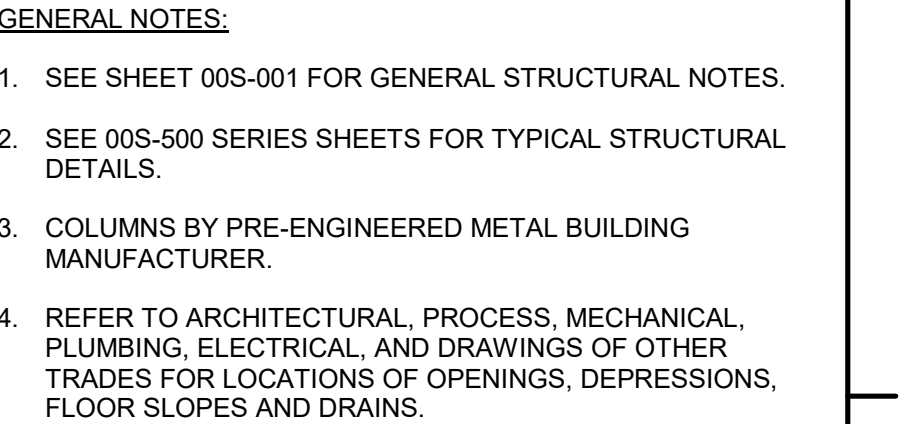
GENERAL NOTE:

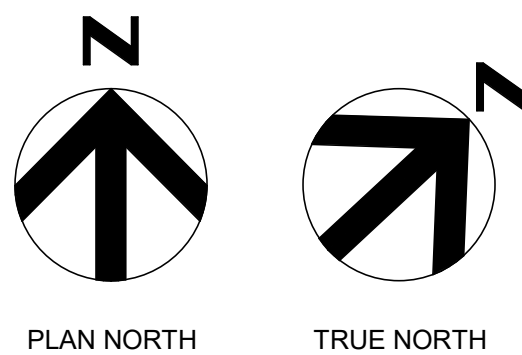
- LUMINAIRES INDICATED AS EMERGENCY SHALL REMAIN ON AT ALL TIMES (NOT SWITCHED).



LOWER PAVILION - ELECTRICAL PLAN  
3/16" = 1'-0"

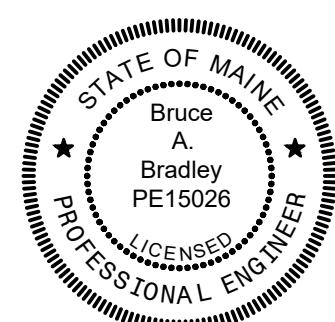



$$1/2'' = 1'-0''$$

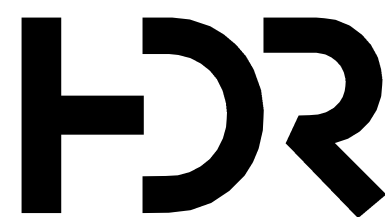


1. SEE SHEET 00S-001 FOR GENERAL STRUCTURAL NOTES.
2. SEE 00S-500 SERIES SHEETS FOR TYPICAL STRUCTURAL DETAILS.
3. COLUMNS BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
4. REFER TO ARCHITECTURAL, PROCESS, MECHANICAL, PLUMBING, ELECTRICAL, AND DRAWINGS OF OTHER TRADES FOR LOCATIONS OF OPENINGS, DEPRESSIONS,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

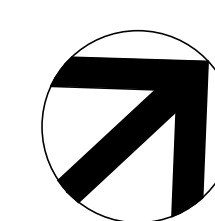
<b>PROJECT MANAGER</b>	ANDREW GURSKI
CIVIL	J. GAGNON
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
<b>PROJECT NUMBER</b>	10357686



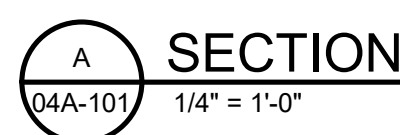
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04S-102





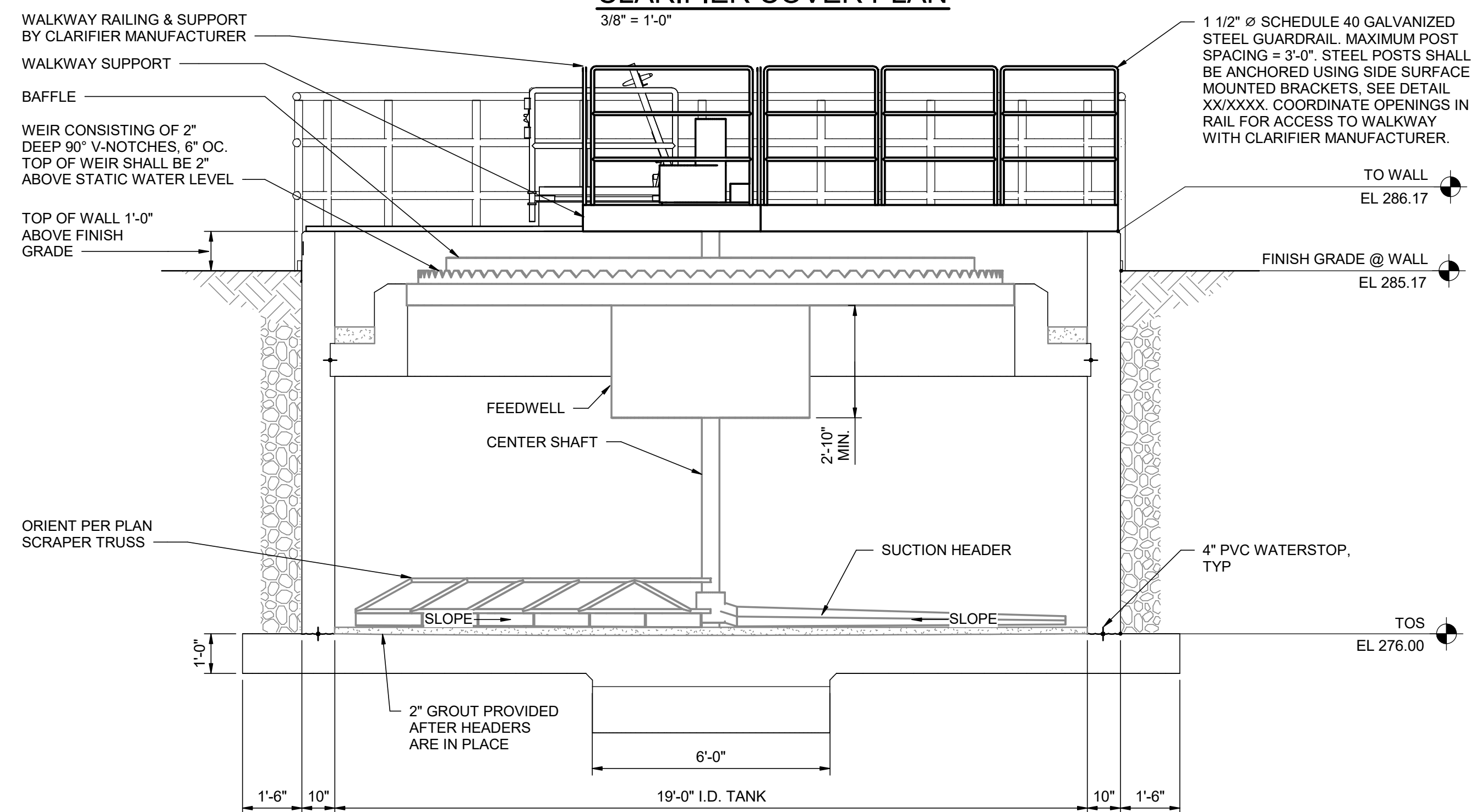
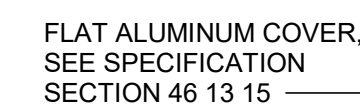
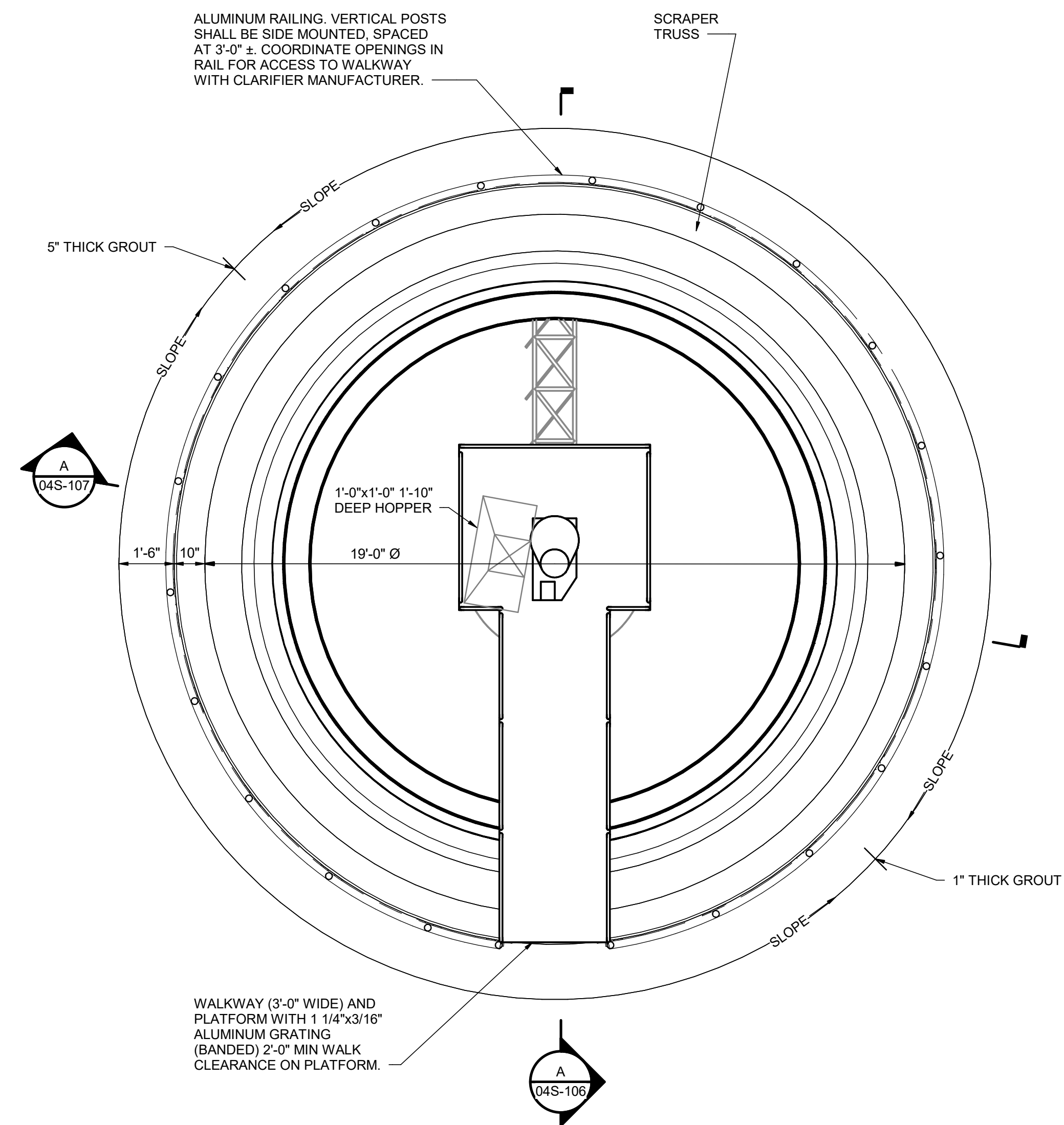


TRUE NORTH

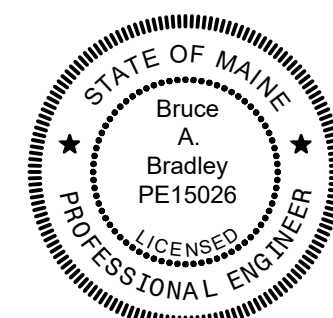






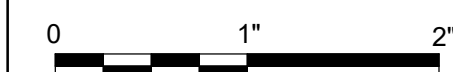


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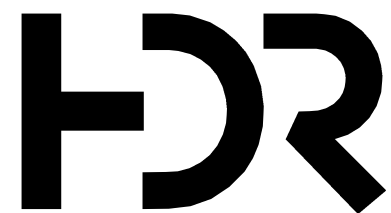
## IMPROVEMENTS AT GRAND LAKE STREAM FISH HATCHERY

## EFFLUENT TREATMENT BUILDING CLARIFIER PLANS AND SECTION



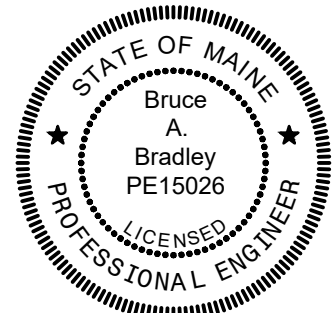
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5/16/2024 8:40:18 AM



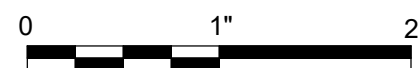
05/03/2024	ISSUED FOR BID	
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER		ANDREW GURSKI
CIVIL	J. GAGNON	
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PROJECT NUMBER		10357686



IMPROVEMENTS AT GRAND  
LAKE STREAM FISH  
HATCHERY

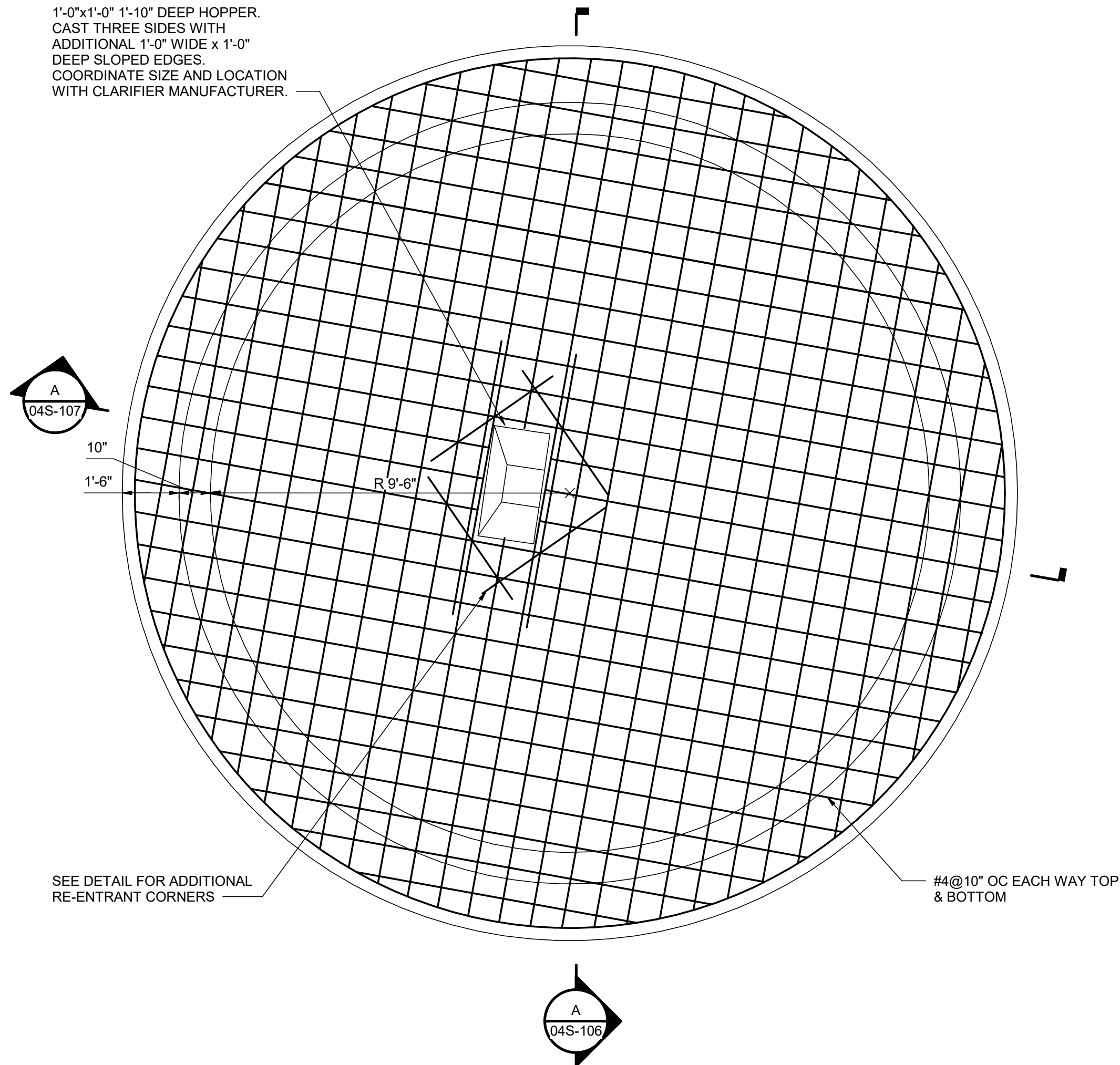
EFFLUENT TREATMENT BUILDING  
CLARIFIER FOUNDATION PLAN, SECTION AND  
DETAILS



FILENAME	10357686-04-S.rvt
SCALE	As indicated

SHEET	04S-107
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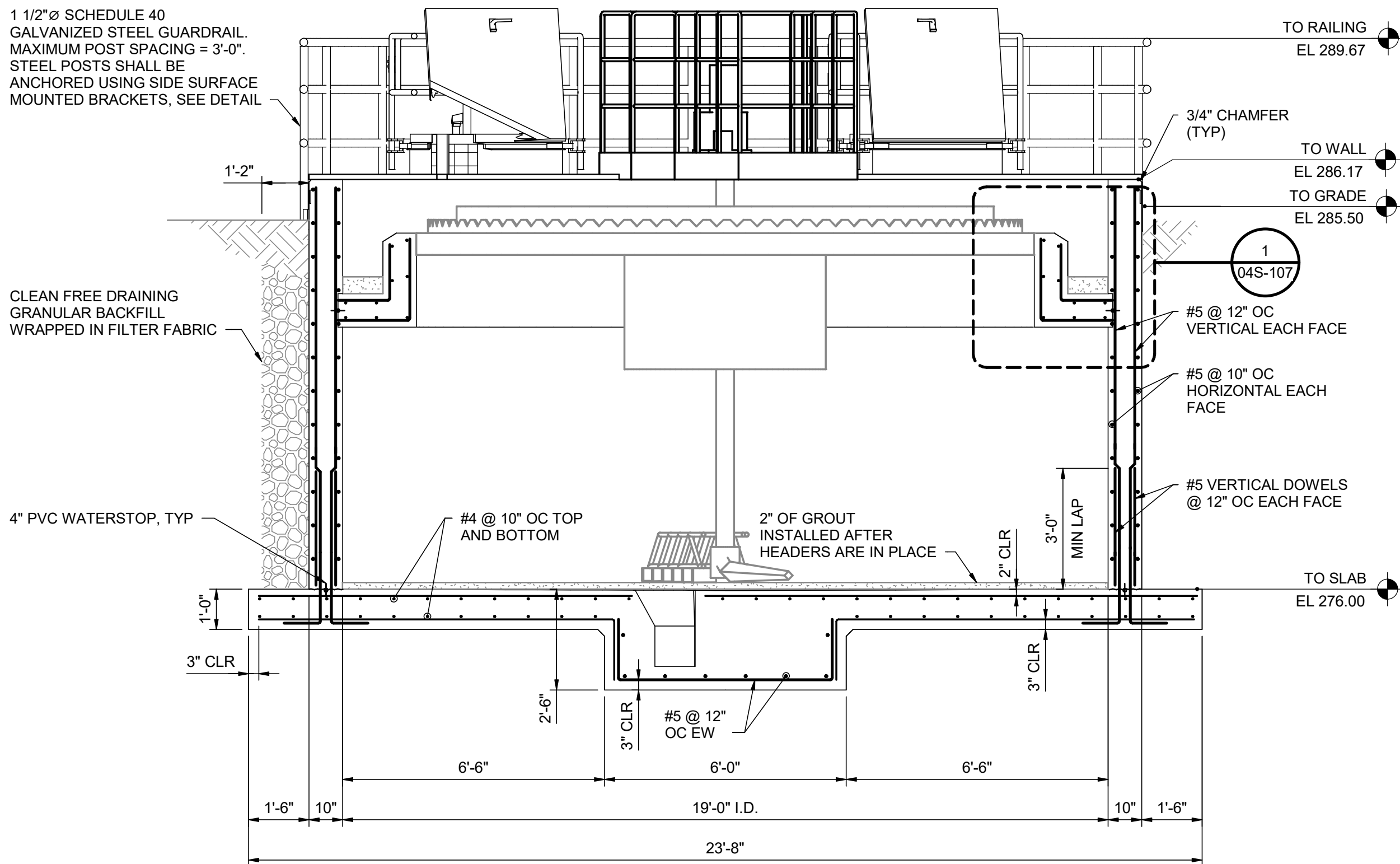
1'-0"x1'-0" 1'-10" DEEP HOPPER.  
CAST THREE SIDES WITH  
ADDITIONAL 1'-0" WIDE x 1'-0"  
DEEP SLOPED EDGES.  
COORDINATE SIZE AND LOCATION  
WITH CLARIFIER MANUFACTURER.



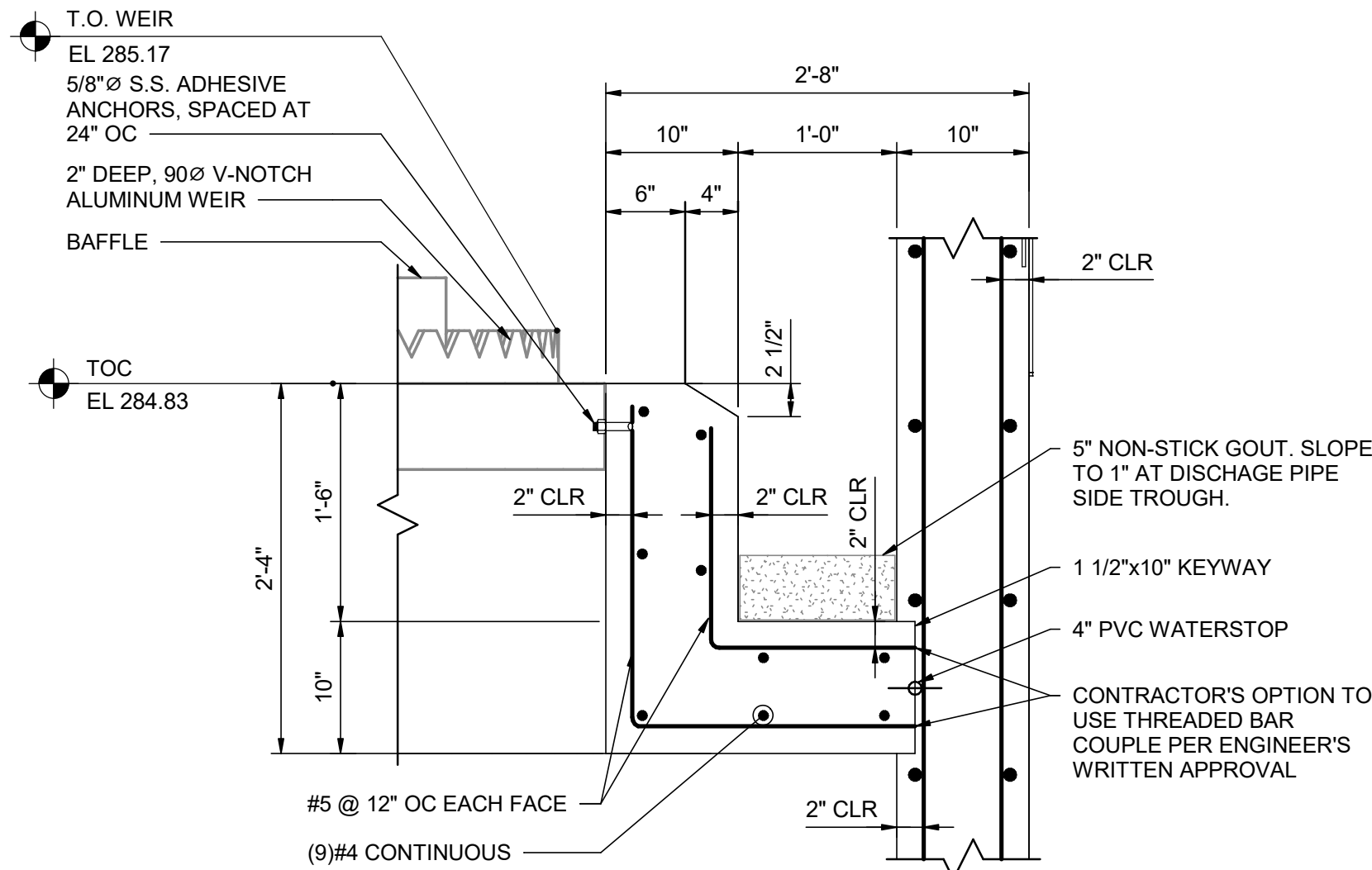
- NOTES:
- CLARIFIER CONCRETE SLAB SHALL HAVE A ROUGH BROOM FINISH.
  - SMOOTH FINISH STEEL FORMS OR SMOOTH FORM LINERS SHALL BE USED FOR ALL CLARIFIER WALLS. RACEWAY WALLS SHALL HAVE A SMOOTH SURFACE FINISH FREE FROM ABRASIONS, HOLES, PITS, FLAWS OR ANY SURFACE IRREGULARITIES AND IS NON-ABRASIVE TO 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"

1 1/2"Ø SCHEDULE 40  
GALVANIZED STEEL GUARDRAIL.  
MAXIMUM POST SPACING = 3'-0".  
STEEL POSTS SHALL BE  
ANCHORED USING SIDE SURFACE  
MOUNTED BRACKETS, SEE DETAIL

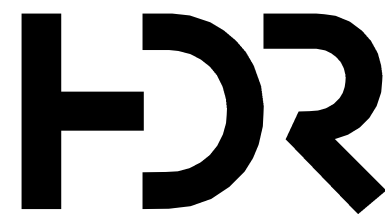


SECTION  
3/8" = 1'-0"



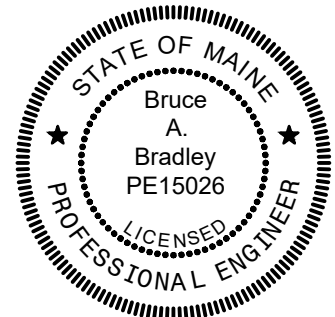
TROUGH DETAIL  
1" = 1'-0"

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5/16/2024 8:40:14 AM



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ISSUE DATE DESCRIPTION

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



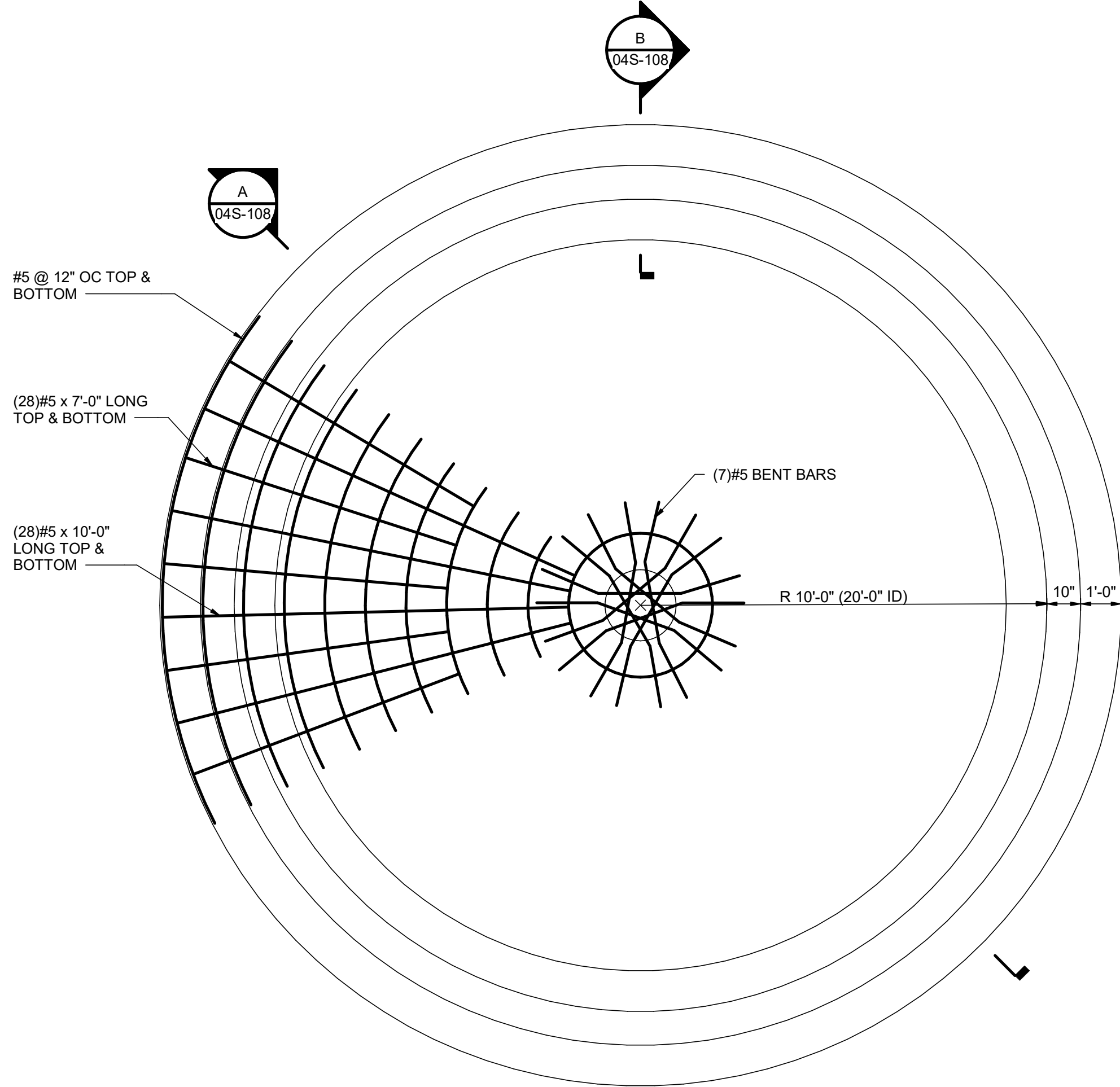
## IMPROVEMENTS AT GRAND LAKE STREAM FISH HATCHERY

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



FILENAME 10357686-04-S.rvt  
SCALE As indicated

SHEET  
**04S-108**

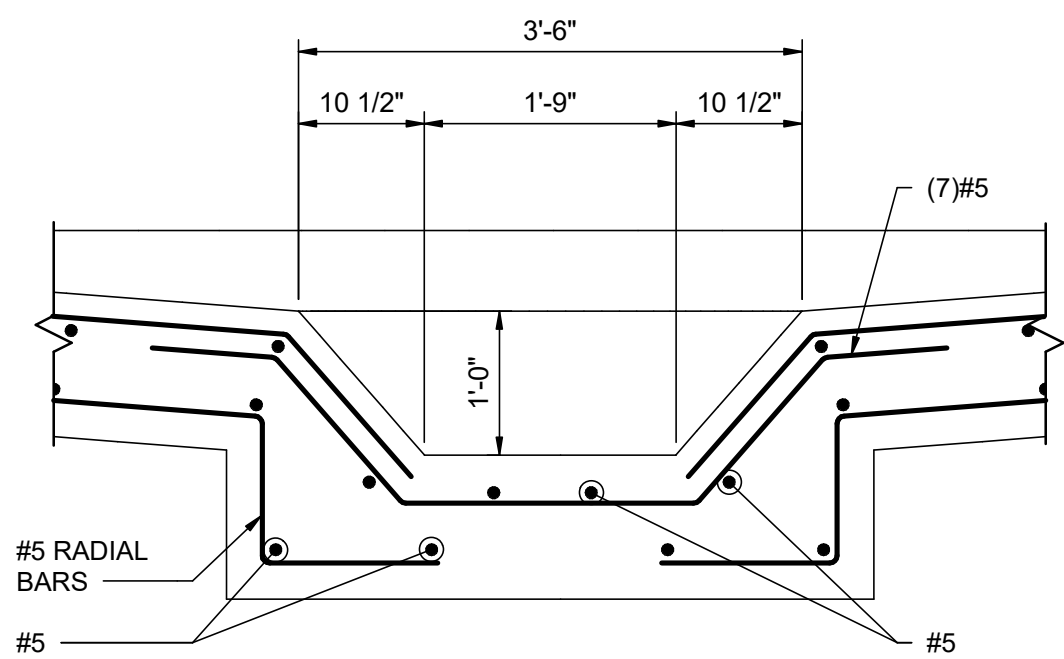


**NOTES:**  
SLUDGE STORAGE TANK FLOORS SHALL BE STEEL TROWEL FINISHED, EITHER BY HAND OR BY MACHINE, TO PRODUCE A DENSE, SMOOTH, HAD SURFACE.

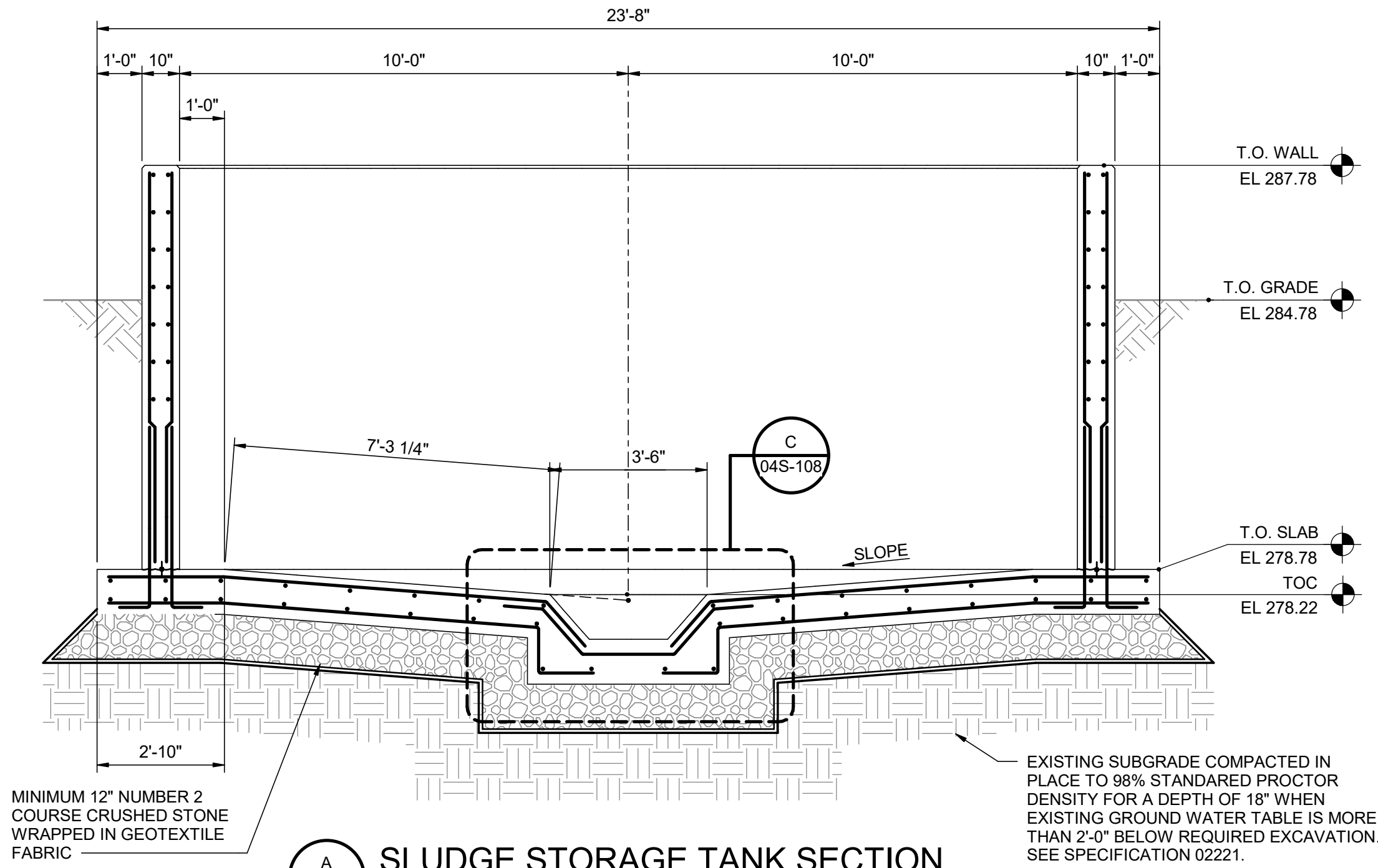
SMOOTH FINISH STEEL FORMS OR SMOOTH FORM LINERS SHALL BE USED FOR ALL SLUDGE STORAGE TANK WALLS. WALLS SHALL HAVE A SMOOTH SURFACE FINISH FREE FROM ABRASIONS, HOLES, PITS, FLAWS OR ANY SURFACE IRREGULARITIES AND IS NON-ABRASIVE TO THE TOUCH AS DETERMINED BY THE ENGINEER OR OWNER'S REPRESENTATIVE. SEE SPECIFICATION SECTION 03002.

COORDINATE ALL PIPE PEMETRATIONS WITH PLUMBING SHEETS.

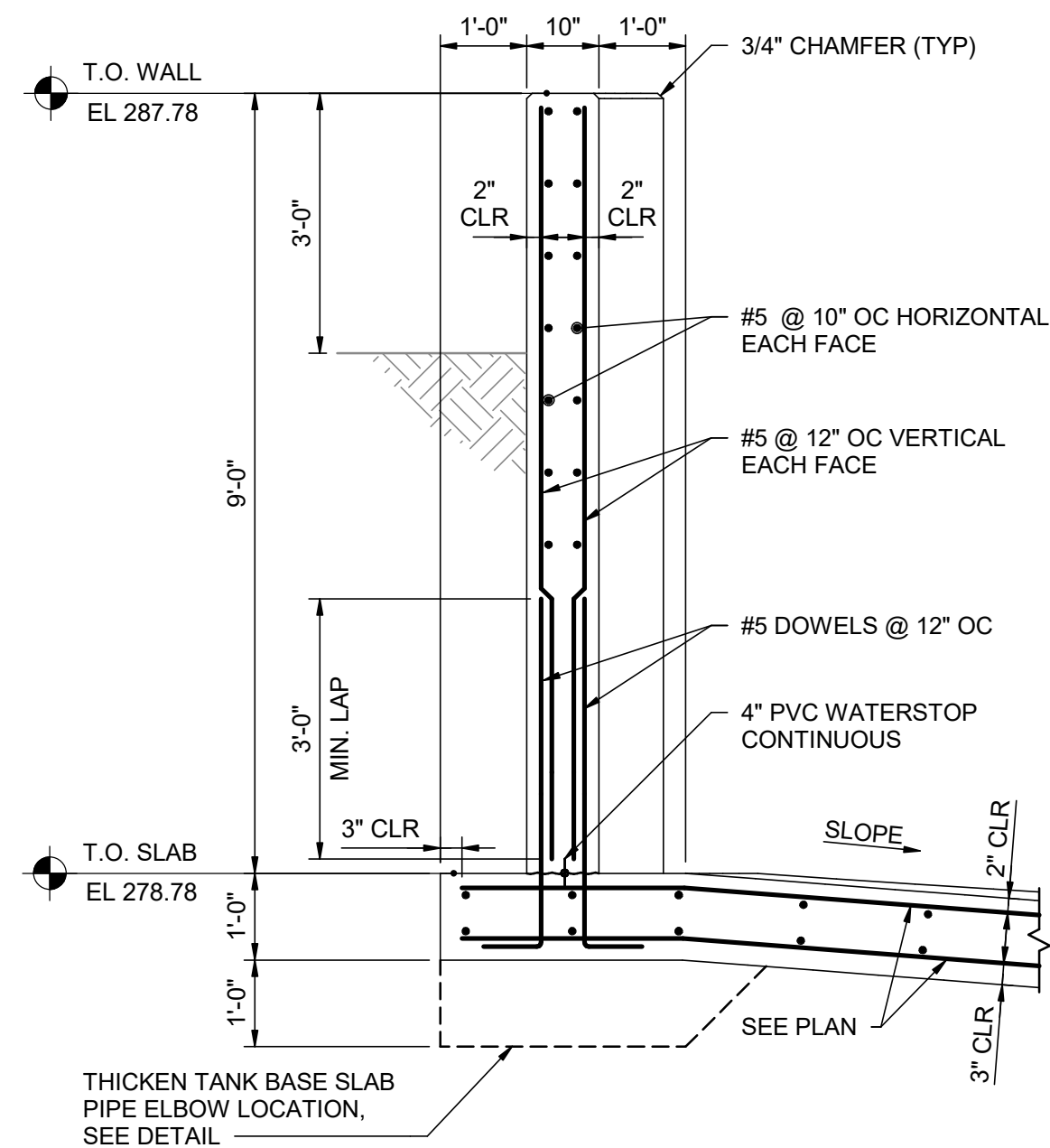
### SLUDGE STORAGE TANK PLAN 3/8" = 1'-0"



**C SECTION**  
04S-108 3/4" = 1'-0"



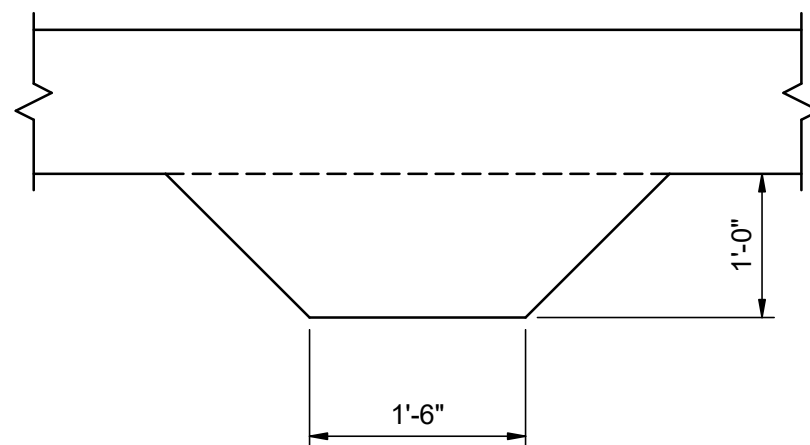
**A SLUDGE STORAGE TANK SECTION**  
04S-108 3/8" = 1'-0"



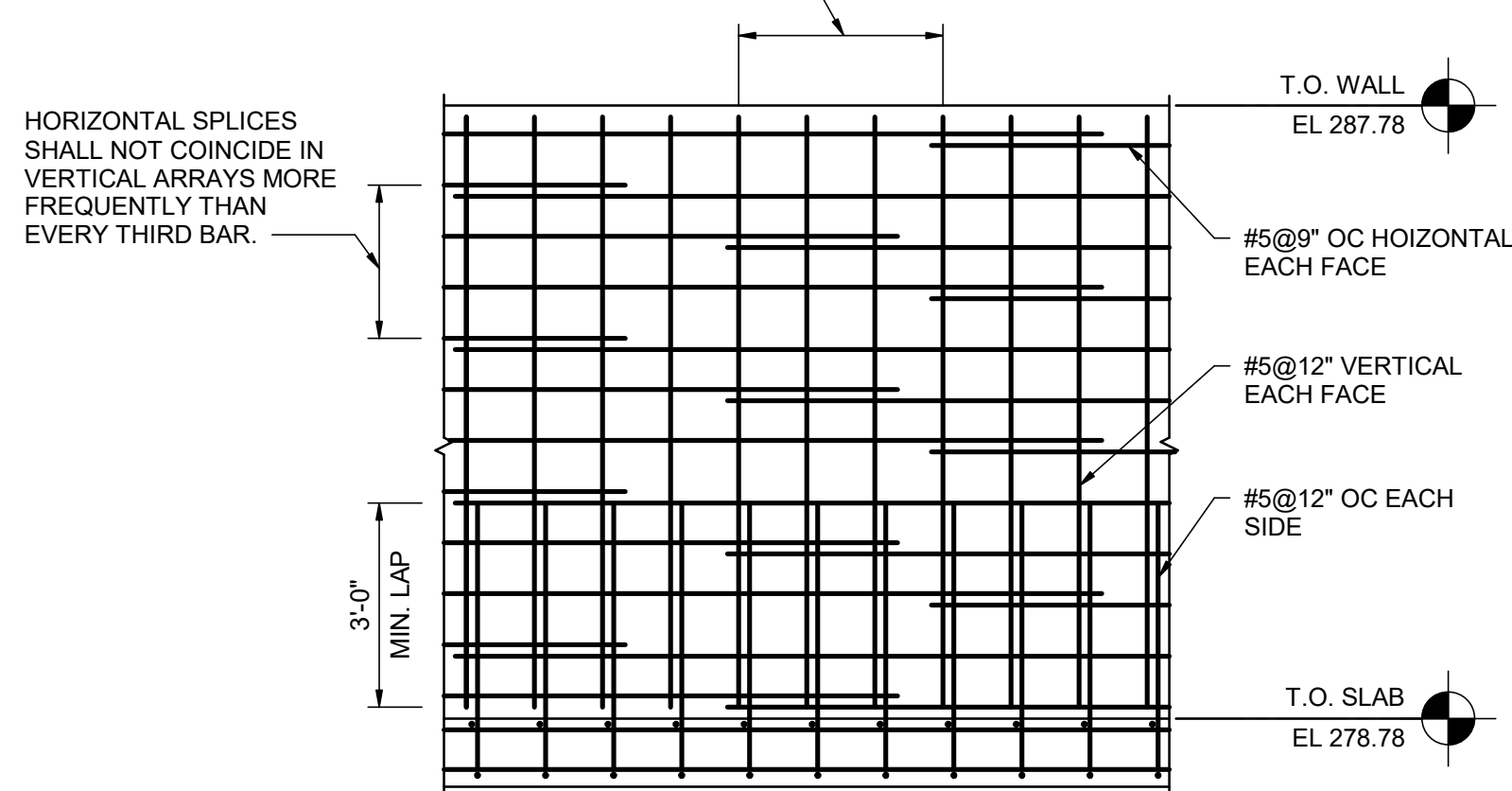
**B WALL SECTION**  
04S-108 1/2" = 1'-0"

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

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



**1 SECTION AT EMBEDDED PIPE ELBOW**  
04S-102 3/4" = 1'-0"



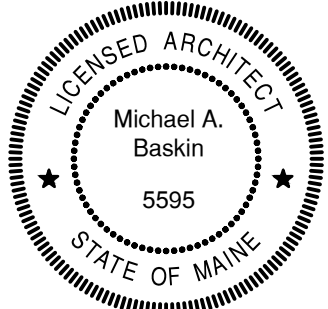
**2 WALL ELEVATION SHOWING REINFORCING**  
04S-102 3/8" = 1'-0"

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5/16/2024 8:41:48 AM



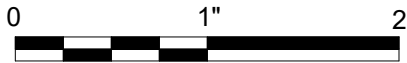
ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

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



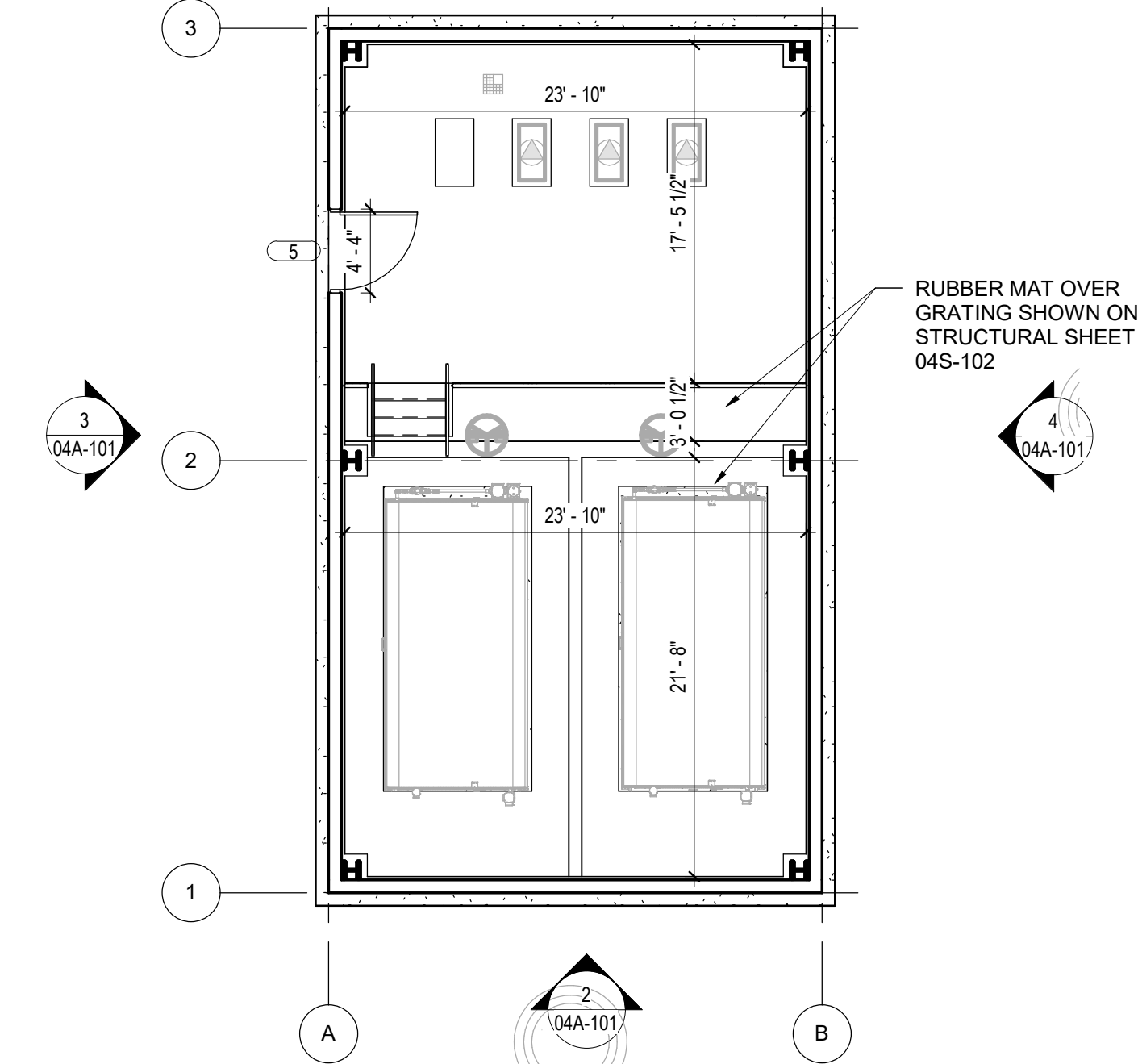
IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

EFFLUENT TREATMENT BUILDING PLAN AND  
ELEVATIONS

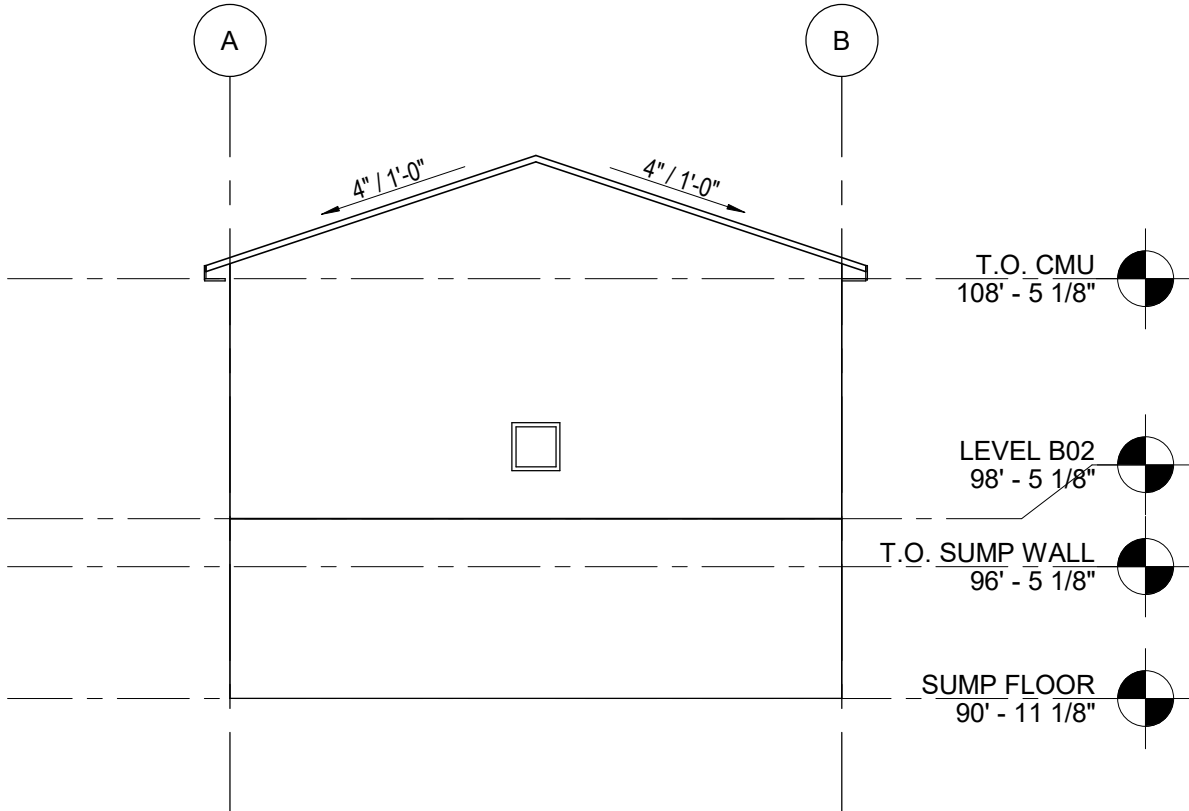


FILENAME  
SCALE 1/8" = 1'-0"

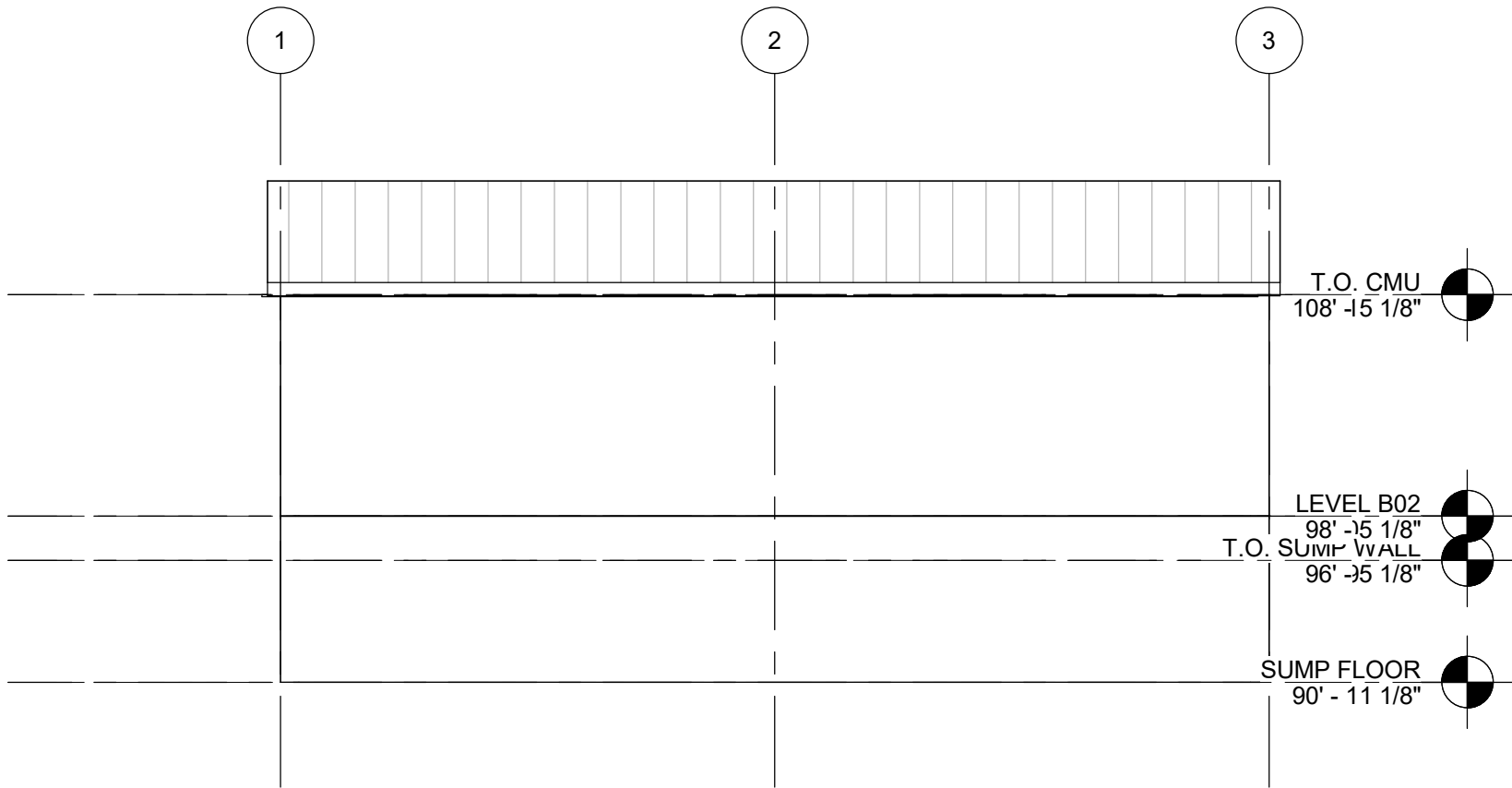
SHEET  
04A-101



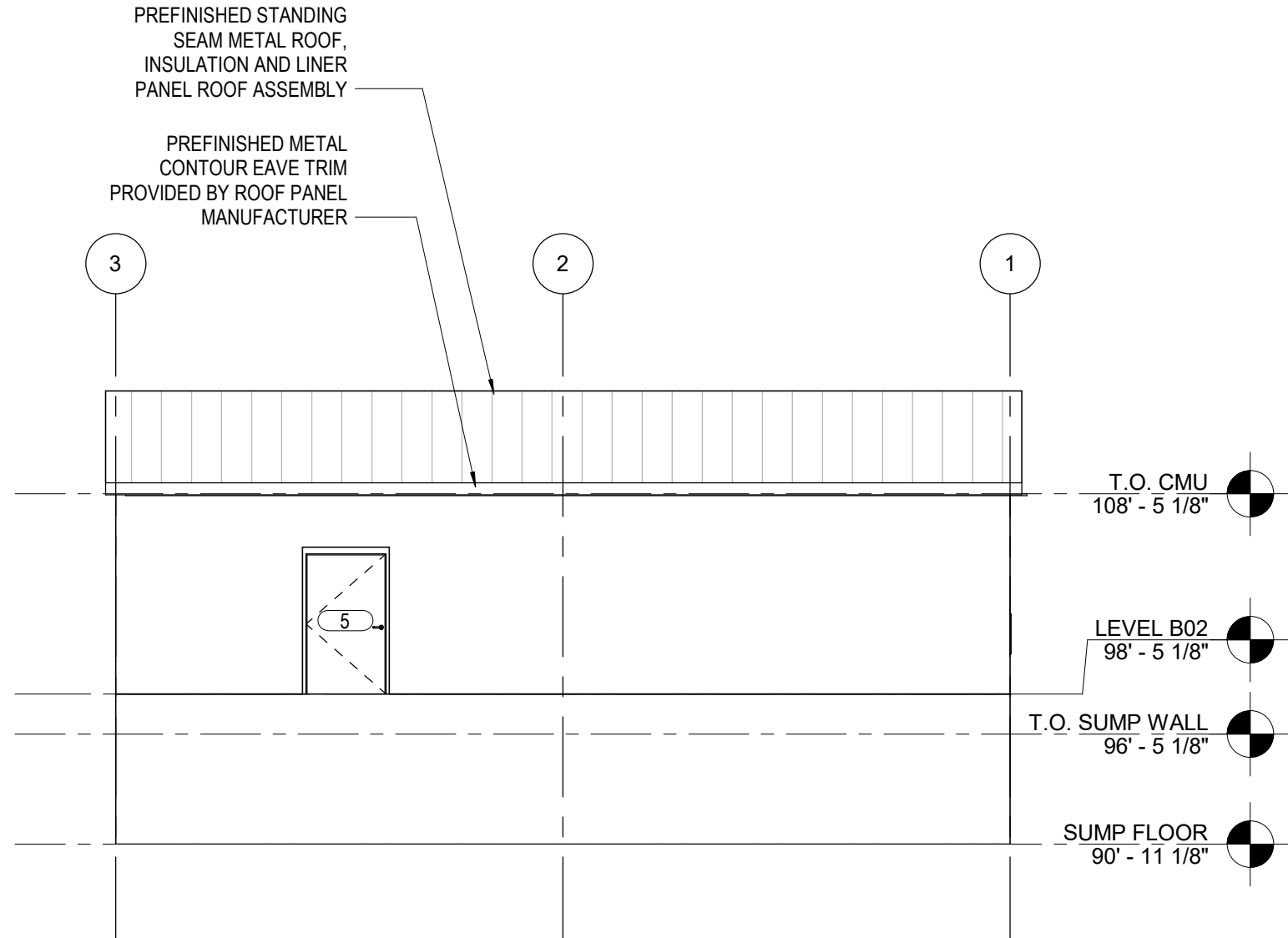
1 DRUMFILTER PLAN  
1/8" = 1'-0"



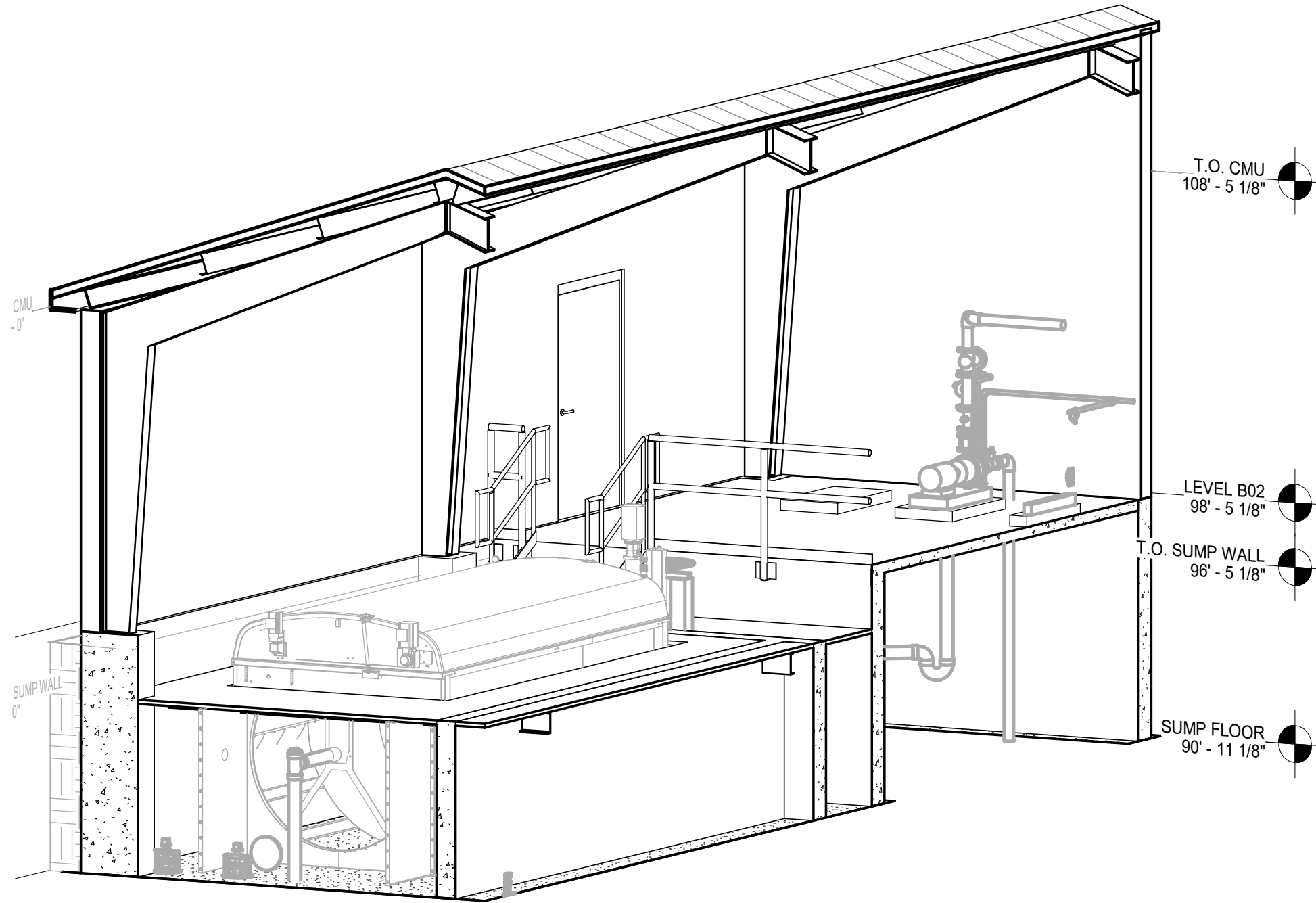
2 SOUTH ELEVATION  
1/8" = 1'-0"



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



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

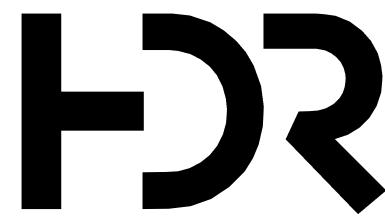


5 3D VIEW

DOOR AND FRAME SCHEDULE																	
IDENTIFICATION				DIMENSIONS					DOOR TYPE	PANEL		FRAME			FIRE RATING	HARDWARE GROUP	NOTES
LEVEL	ROOM NO.	ROOM NAME	DOOR NO.	OPENING WIDTH			H	T		Material	Finish	TYPE	Material	Finish			
				W1	W2	Total Width											
T.O. SLAB	400	UPPER LEVEL	5	-	-	4' - 0"	7' - 0"	1 3/4"	D03	METAL	PAINTED	F05	METAL	PAINTED	N/A	2	

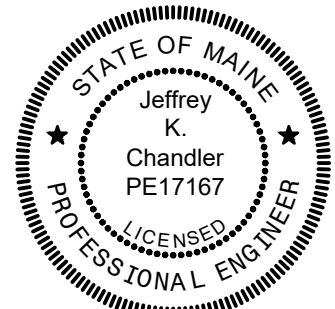


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PROJECT MANAGER ANDREW GURSKI	
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



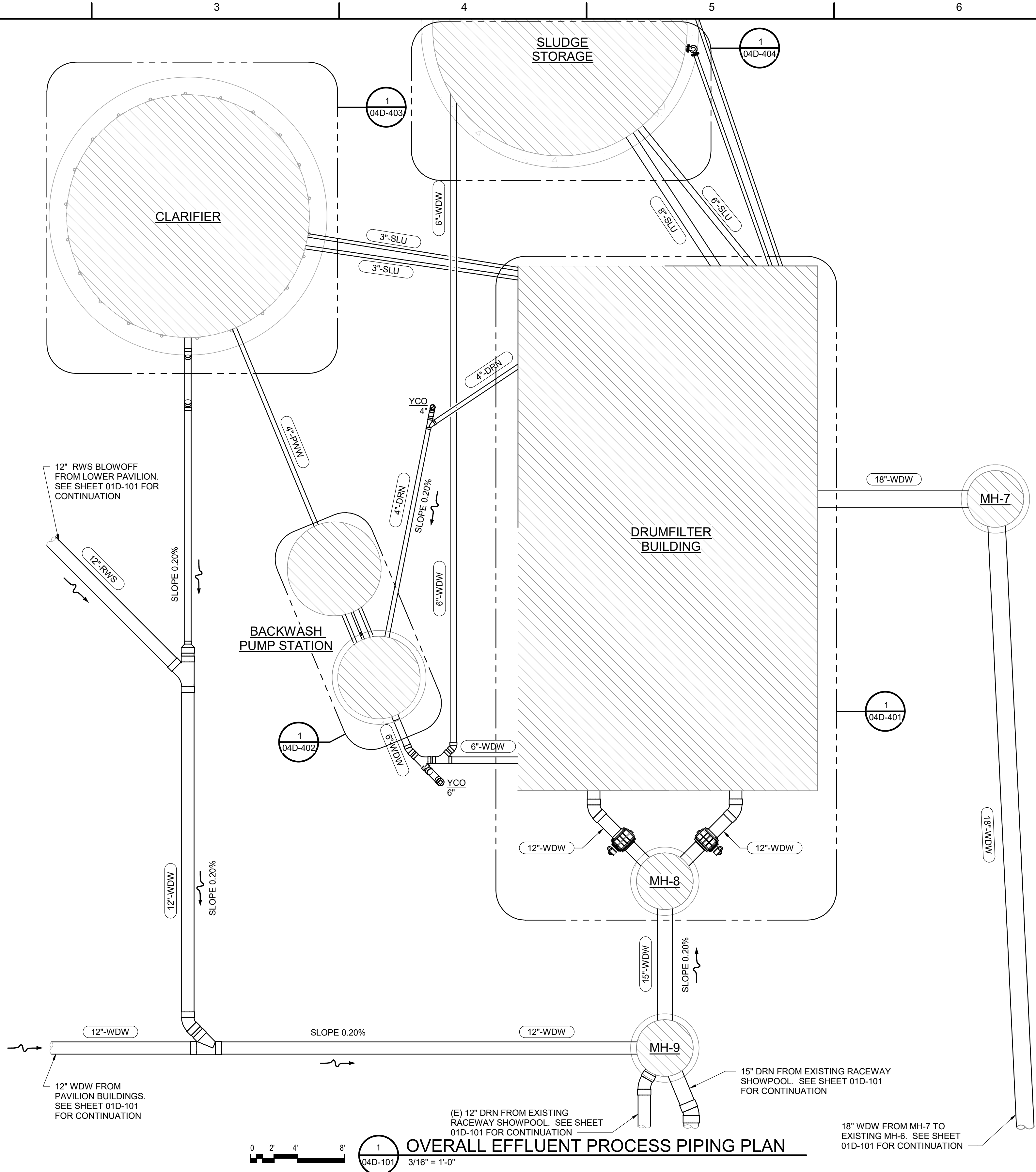
IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

OVERALL EFFLUENT PROCESS PIPING PLAN



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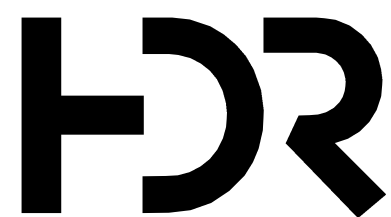
SHEET
04D-101



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

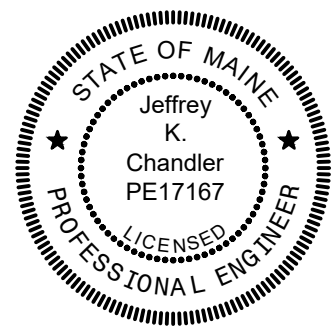
OVERALL EFFLUENT PROCESS PIPING PLAN

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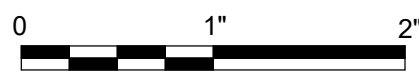
05/03/2024 ISSUED FOR BID  
ISSUE DATE DESCRIPTION

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	



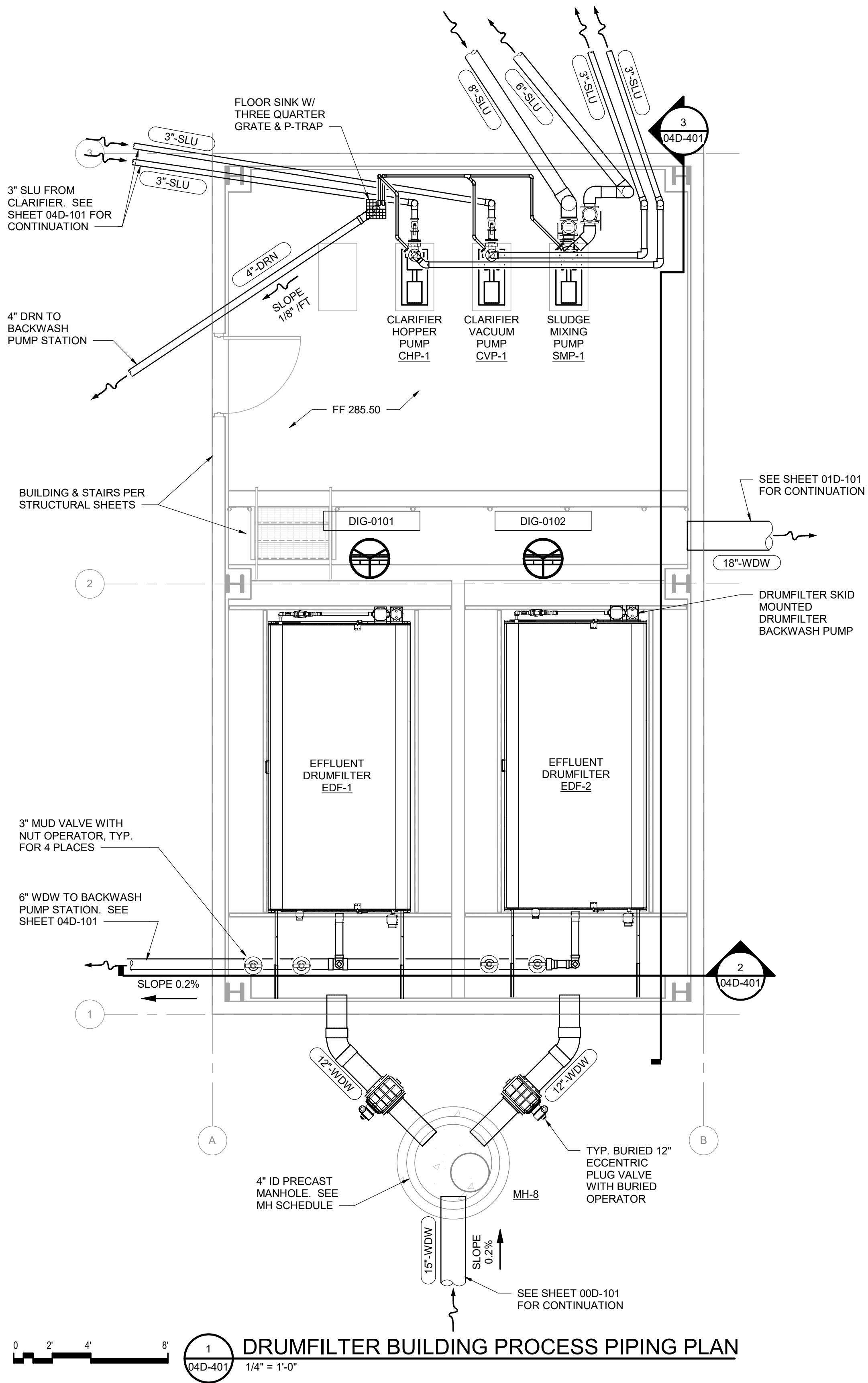
IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

DRUMFILTER BUILDING PROCESS PIPING PLAN

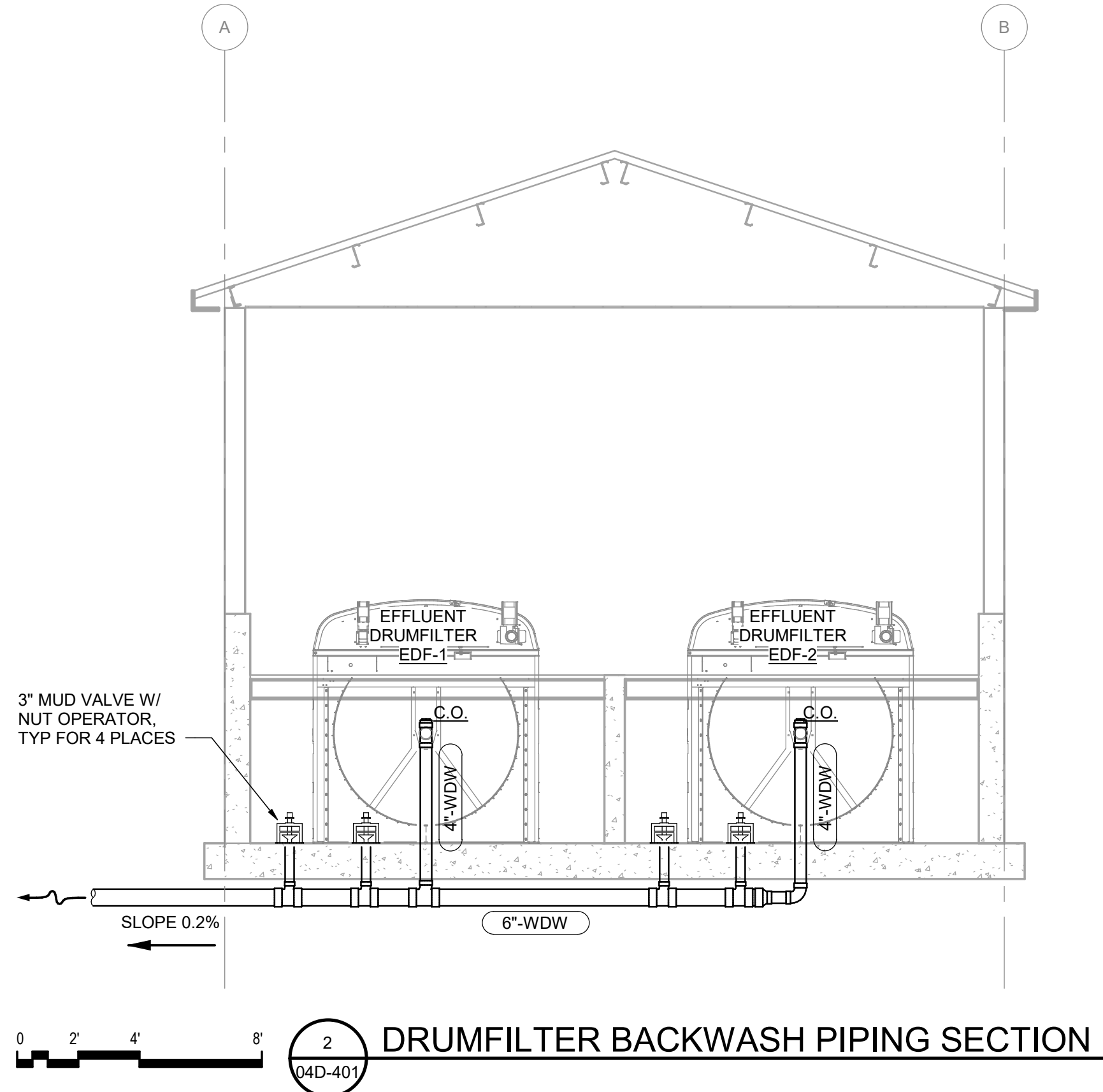


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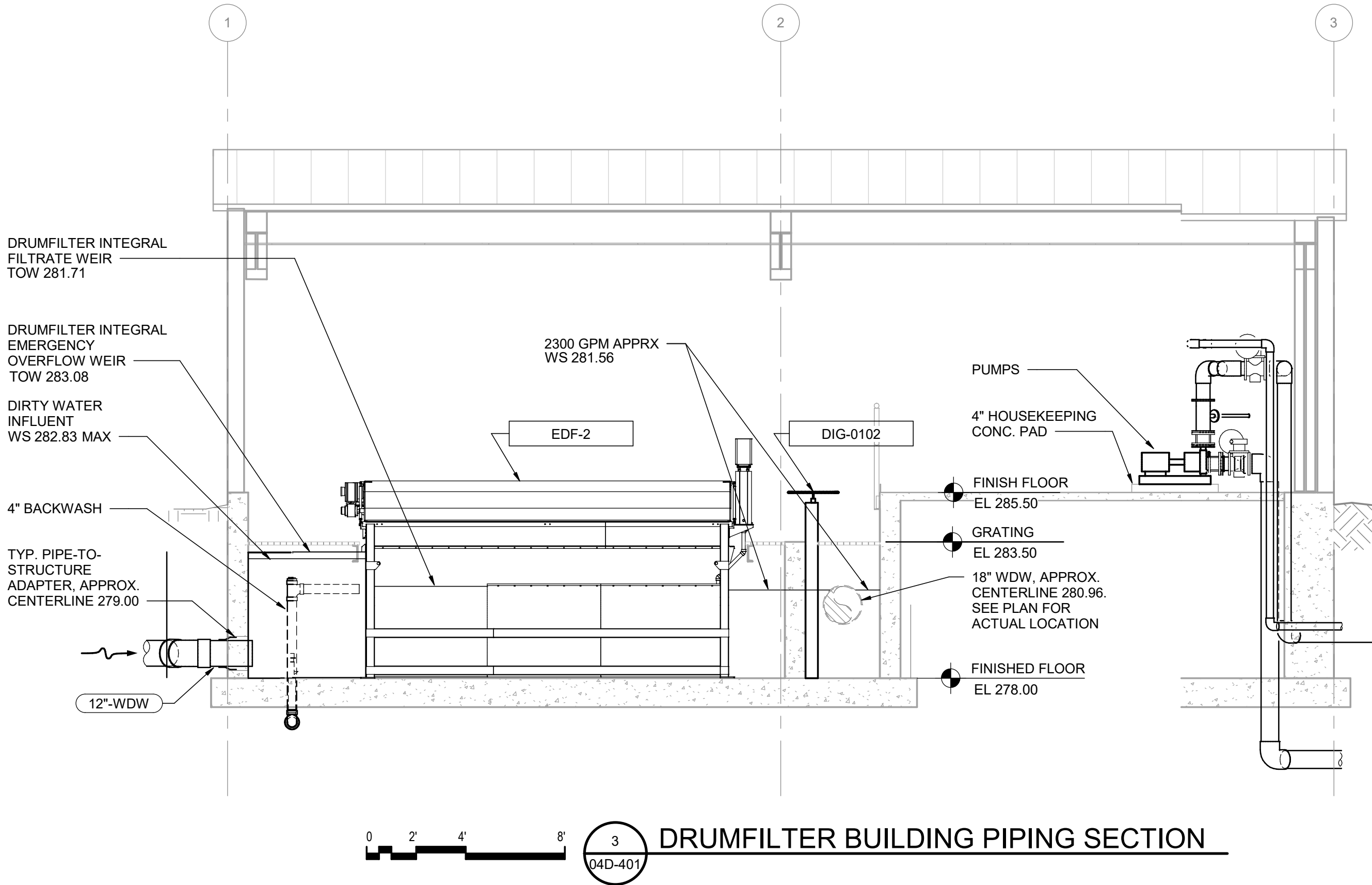
SHEET  
04D-401



DRUMFILTER BUILDING PROCESS PIPING PLAN



DRUMFILTER BACKWASH PIPING SECTION

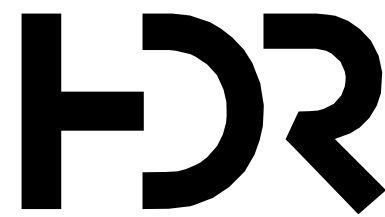


DRUMFILTER BUILDING PIPING SECTION

GENERAL NOTES:

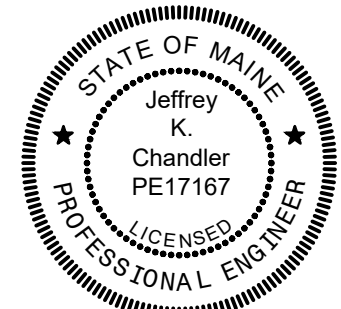
1. ANCHOR DRUMFILTER TO CONCRETE WITH STAINLESS HARDWARE PER RECOMMENDATIONS OF DRUMFILTER MANUFACTURER.
2. FOR CLARITY, PIPING SUPPORTS ARE NOT SHOWN BUT ARE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN & PROVIDE AND THEY SHALL NOT IMPEDE ACCESS TO OR MAINTENANCE OF DRUMFILTER, PIPING, VALVES, GAGES, PUMPS, STRAINERS, ETC. AND SUPPORTS SHALL BE GALVANIZED SS, FRP OR ALUMINUM AND FASTENERS SHALL BE SS. LEAVE SPACE FOR A PERSON TO STEP OVER 12" PIPING BEFORE & AFTER TRUE WYE.
3. EACH MUD VALVE SHALL HAVE A 30-INCH STEM EXTENSION SUPPORTED TO THE NEAREST CONCRETE SUMP WALL. PROVIDE 3-INCH DIAMETER HOLE IN DECKING/GRATING ABOVE AND SLIT IN FLOOR MAT ABOVE FOR PASSAGE OF OPERATING WRENCH SOCKET.

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5/17/2024 8:45:12 AM



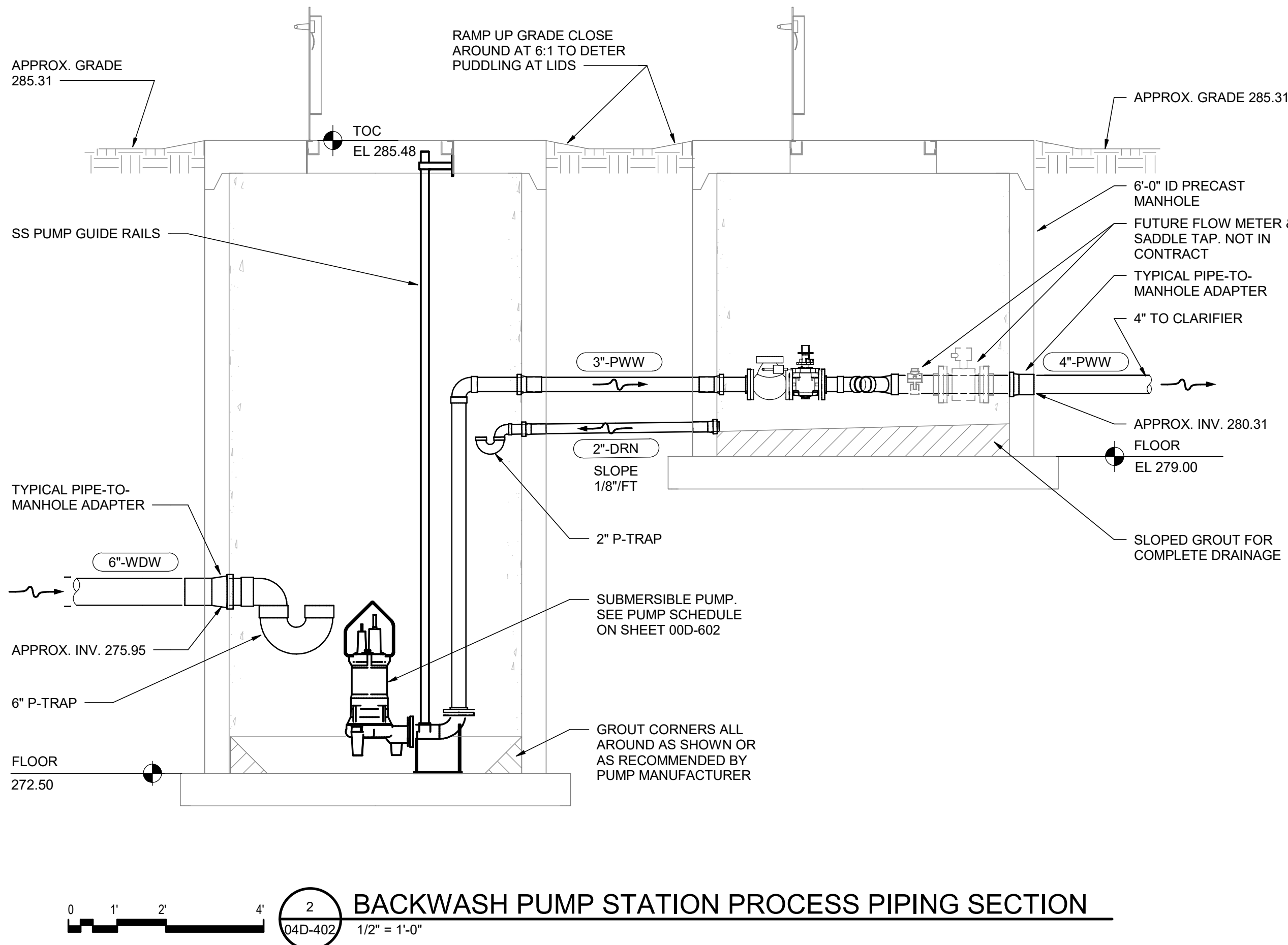
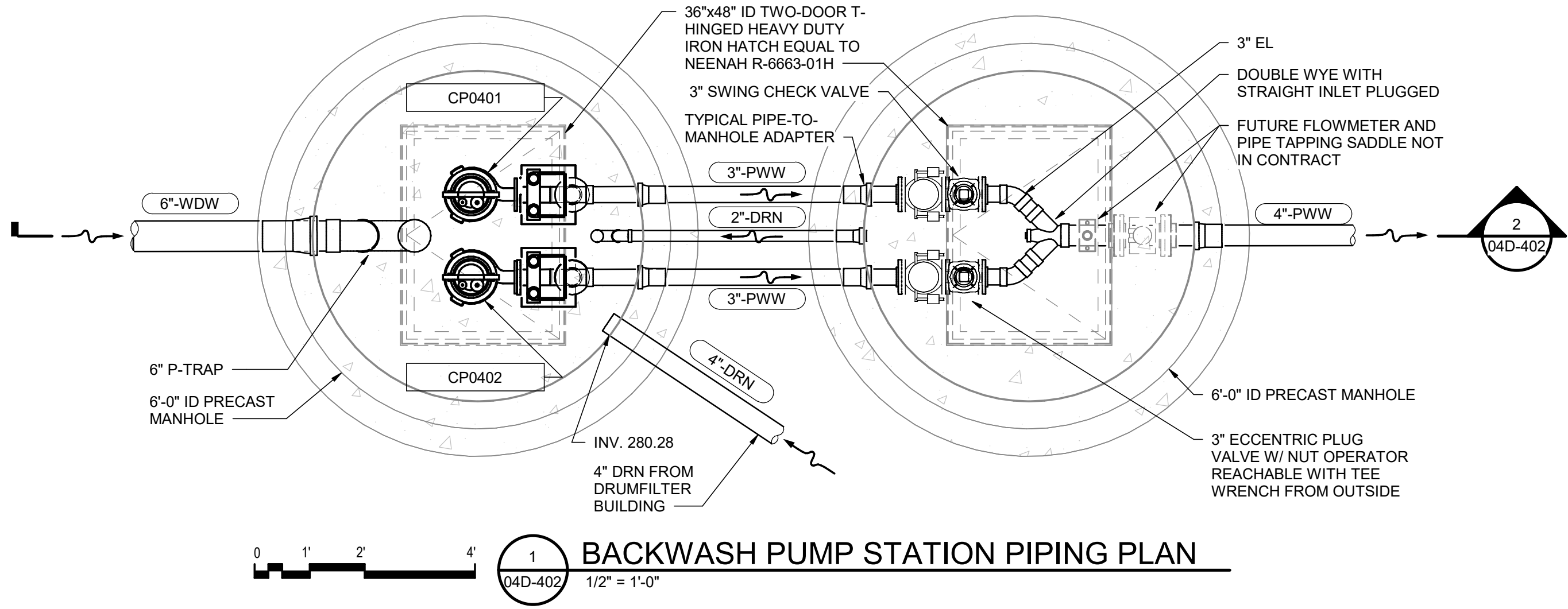
ISSUE	DATE	DESCRIPTION
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PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

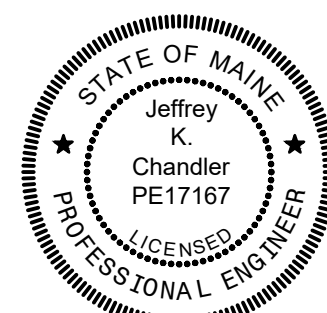
BACKWASH PUMP STATION PROCESS PIPING PLAN & SECTION	
0 1" 2"	FILENAME 10353741-04-D.rvt
SCALE 1/2" = 1'-0"	SHEET 04D-402







			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	DESCRIPTION	PROJECT NUMBER	10357686



## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

## SLUDGE STORAGE PROCESS PIPING PLAN & DETAILS



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

SHEET  
**04D-404**

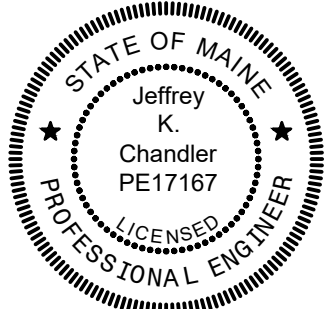


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ISSUE		
ISSUE	DATE	DESCRIPTION
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PROJECT MANAGER	
CIVIL	J. GAGNON
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ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL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



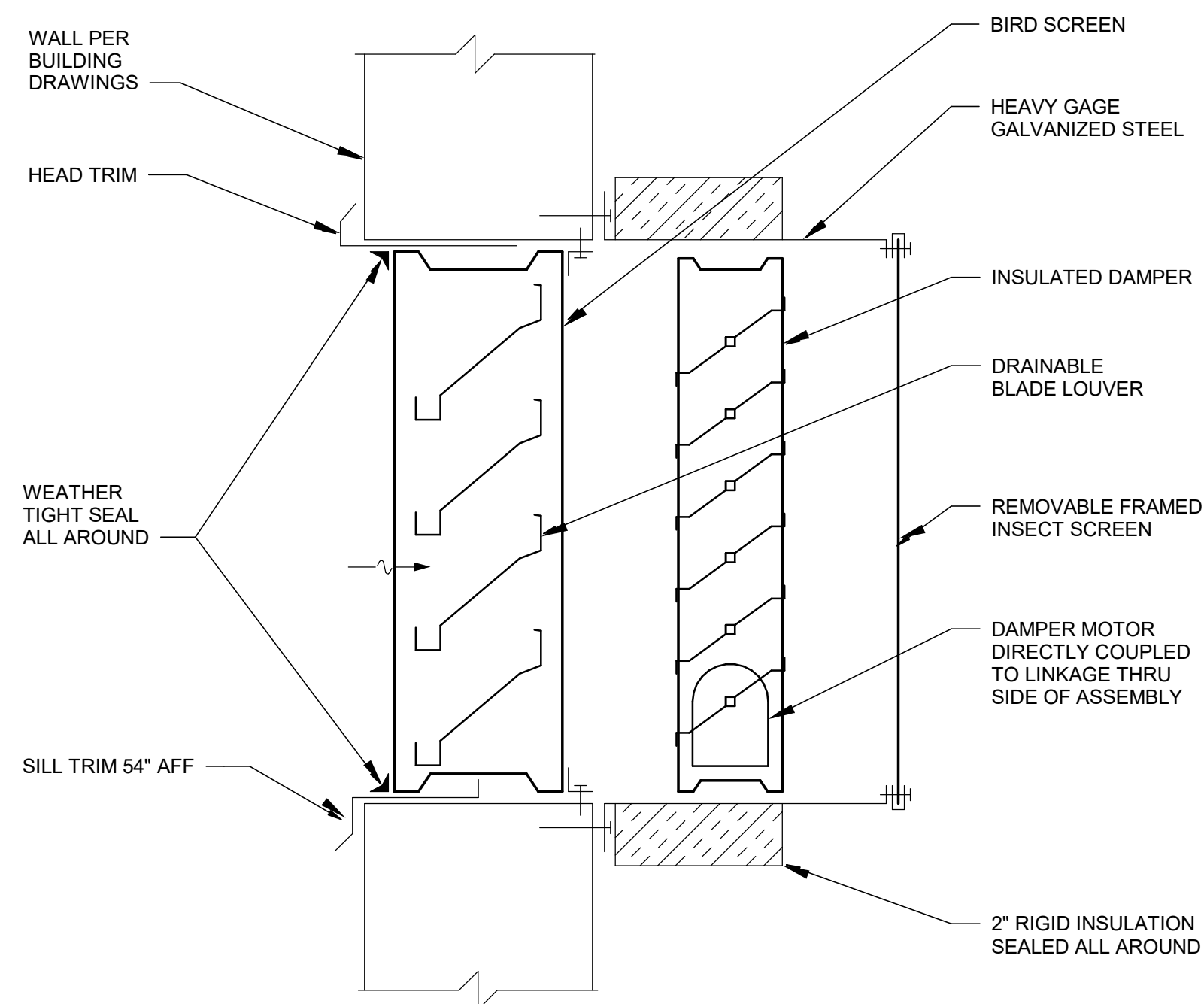
IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

DRUMFILTER BLDG DETAILS



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

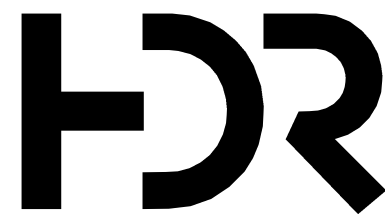
SHEET  
04D-501



# MECHANICAL PLAN

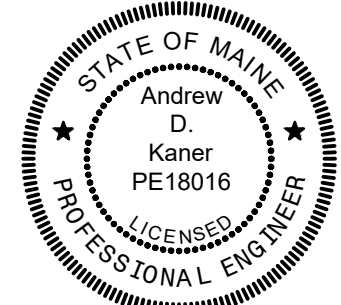


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PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	C. SMEE
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10457686



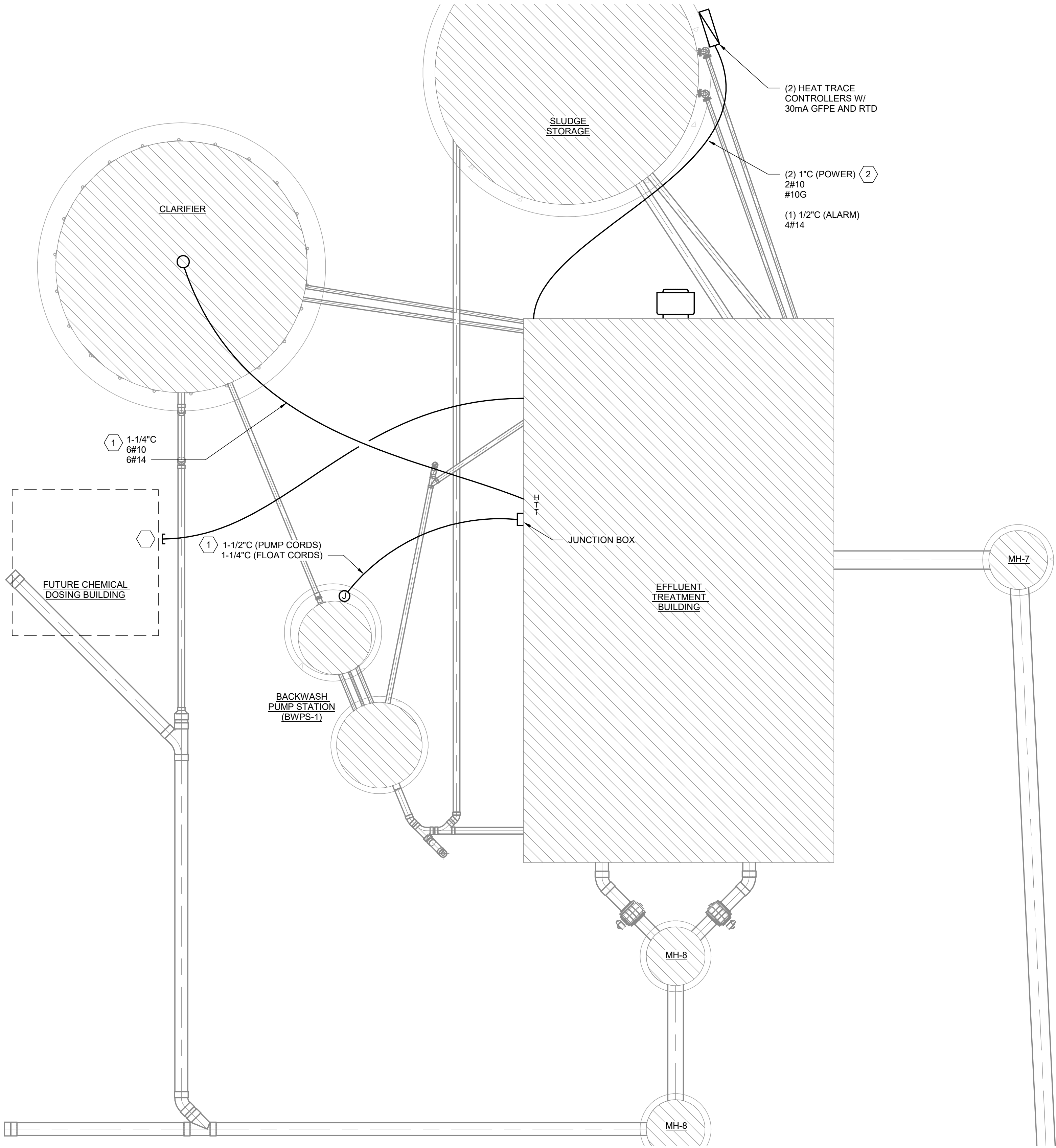
IMPROVEMENTS AT GRAND  
LAKE STREAM STATE FISH  
HATCHERY

OVERALL EFFLUENT ELECTRICAL PLAN

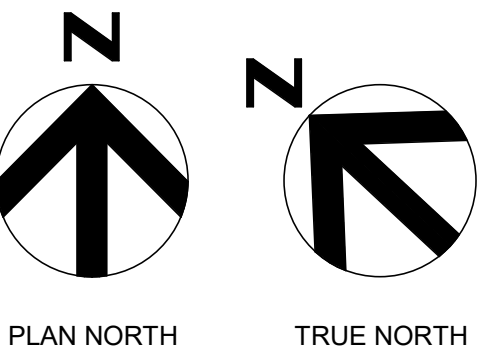


FILENAME	10358676-04-E.rvt
SCALE	3/16" = 1'-0"

SHEET
04E-101



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



GENERAL NOTES:

1. REFER TO 01E-101 FOR SITE POWER AND COMM. CONDUIT ROUTING.

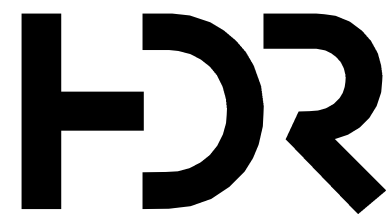
KEYNOTES #

1 CONDUIT AND WIRE IS SHOWN FOR BIDDING PURPOSES ONLY. CONFIRM REQUIREMENTS WITH MANUFACTURER SHOP DRAWINGS.

2 PROVE (2) 30A CIRCUITS FOR TWO HEAT TRACES ON SLUDGE TANK STAND-PIPES. PROVIDE 2#14 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.

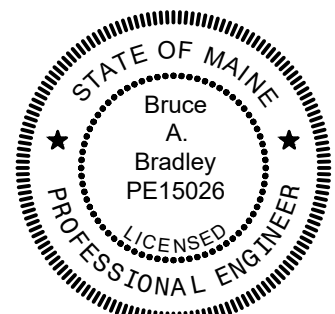


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5/16/2024 8:38:04 AM



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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



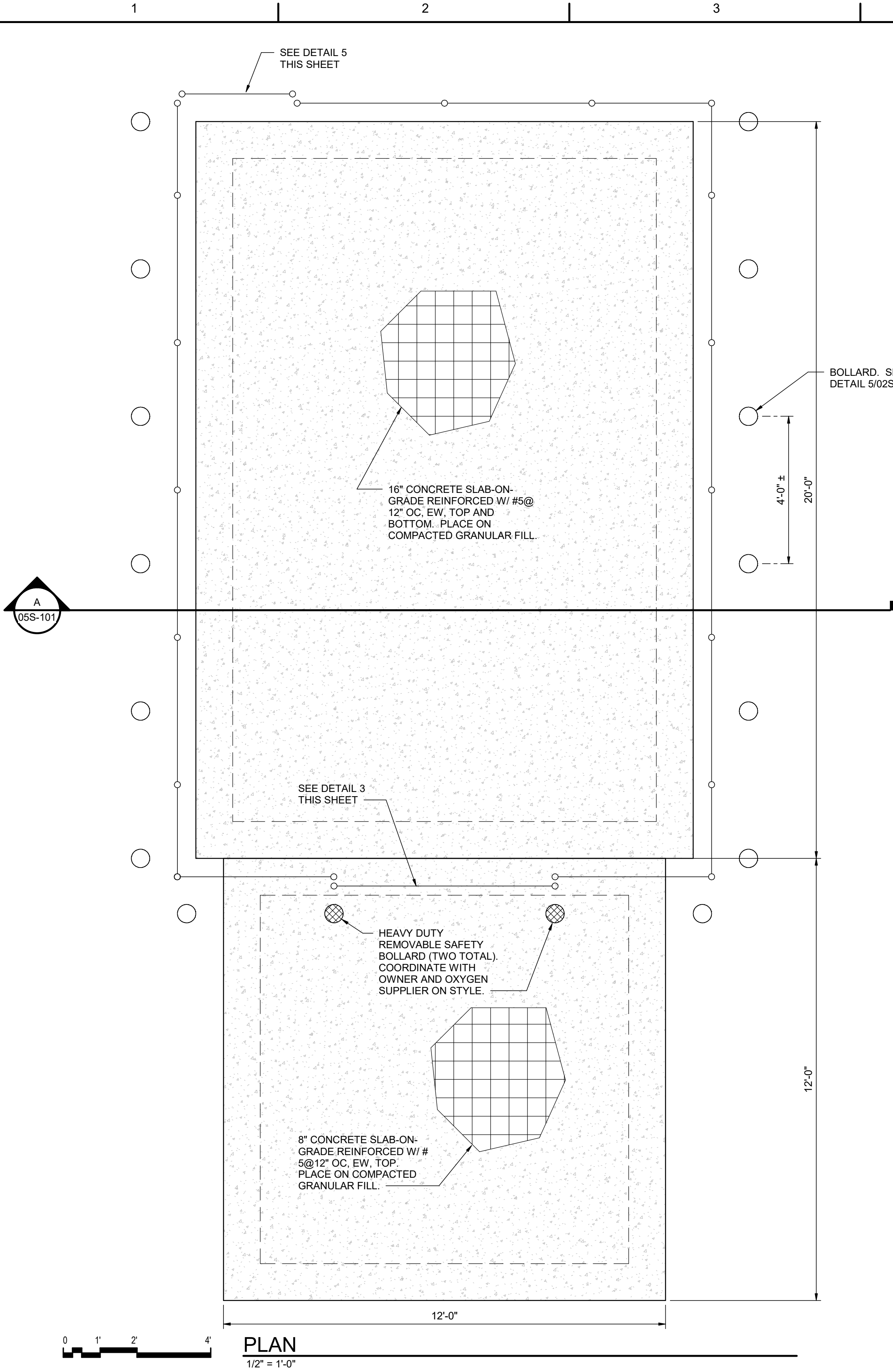
## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

## OXYGEN PAD STRUCTURAL PLAN AND SECTION

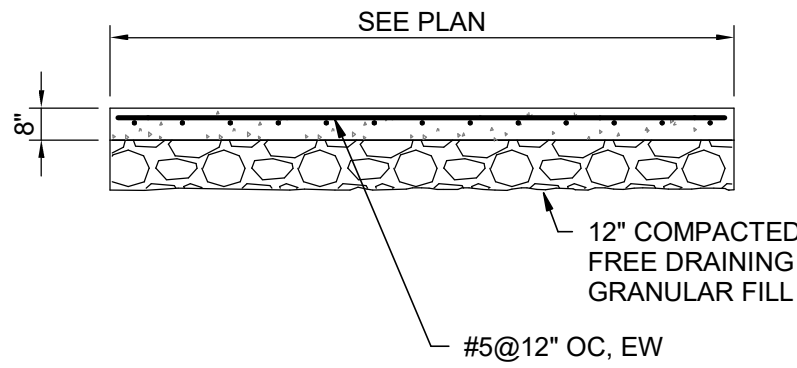


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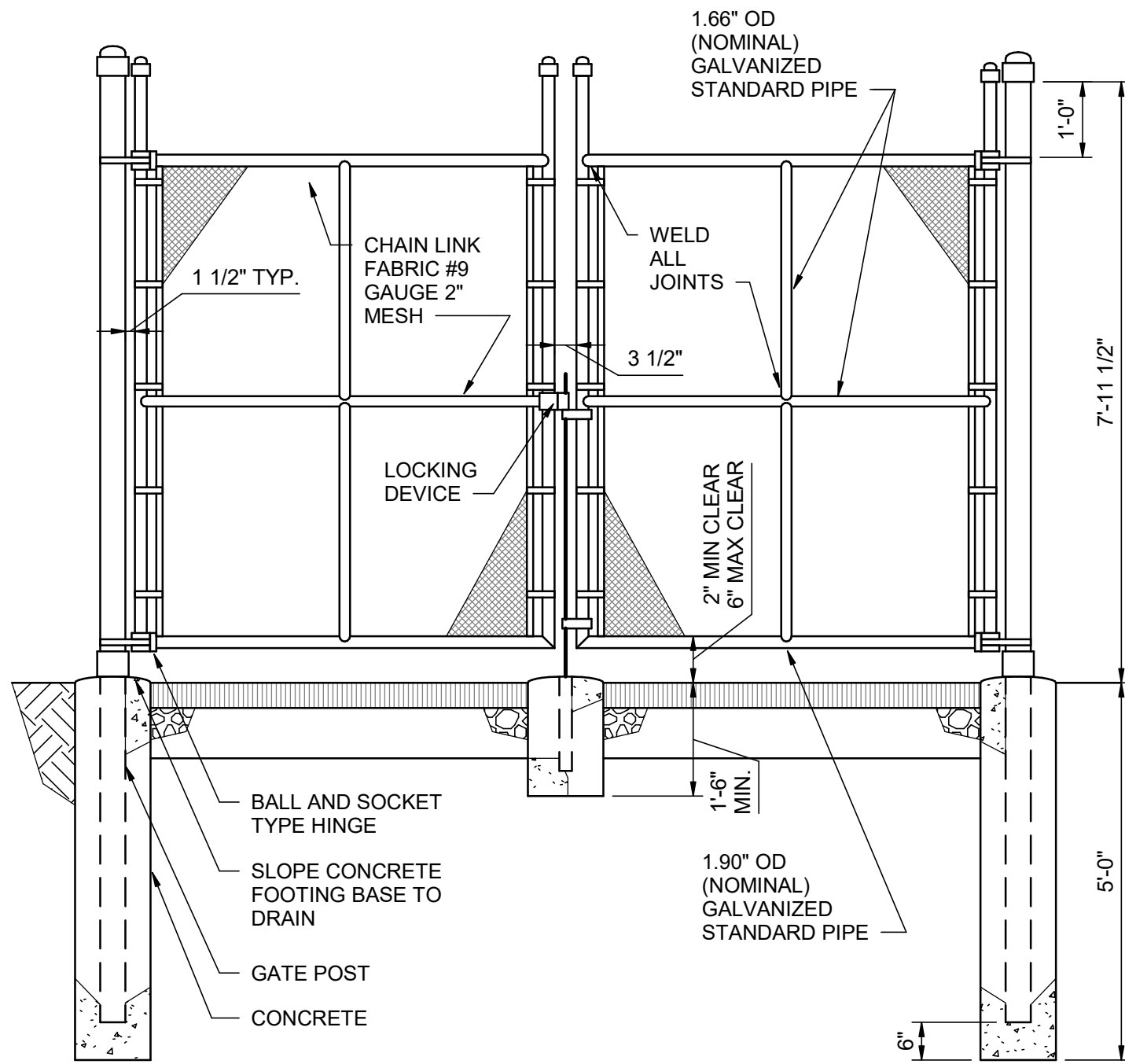
SHEET  
05S-101



### SECTION 1/2" = 1'-0"



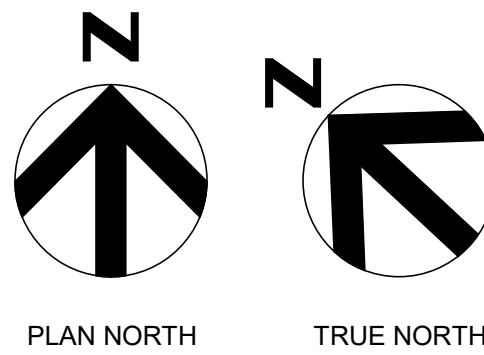
### DRIP PAD SECTION 1/4" = 1'-0"



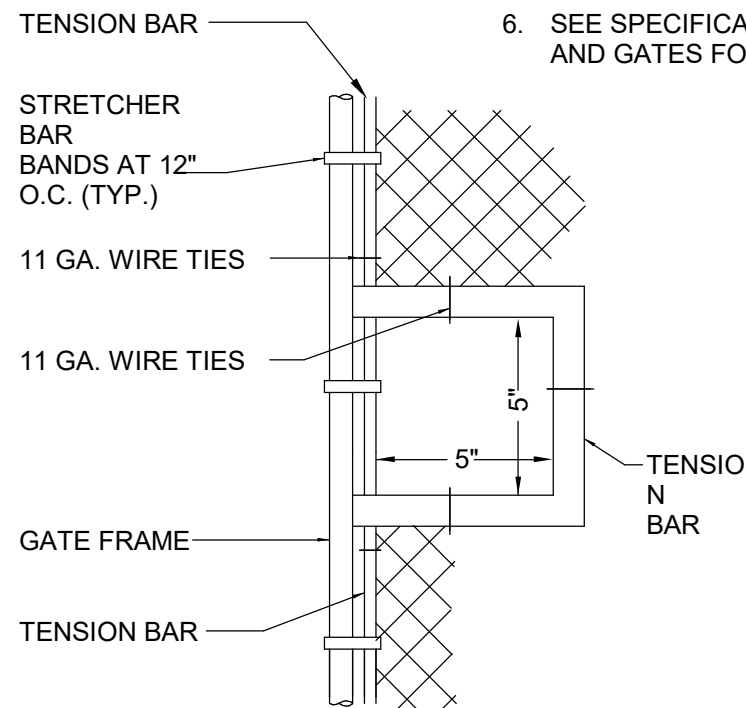
### SWING GATE DETAIL 1/2" = 1'-0"

BOLLARD, SEE  
DETAIL 5/02S-302

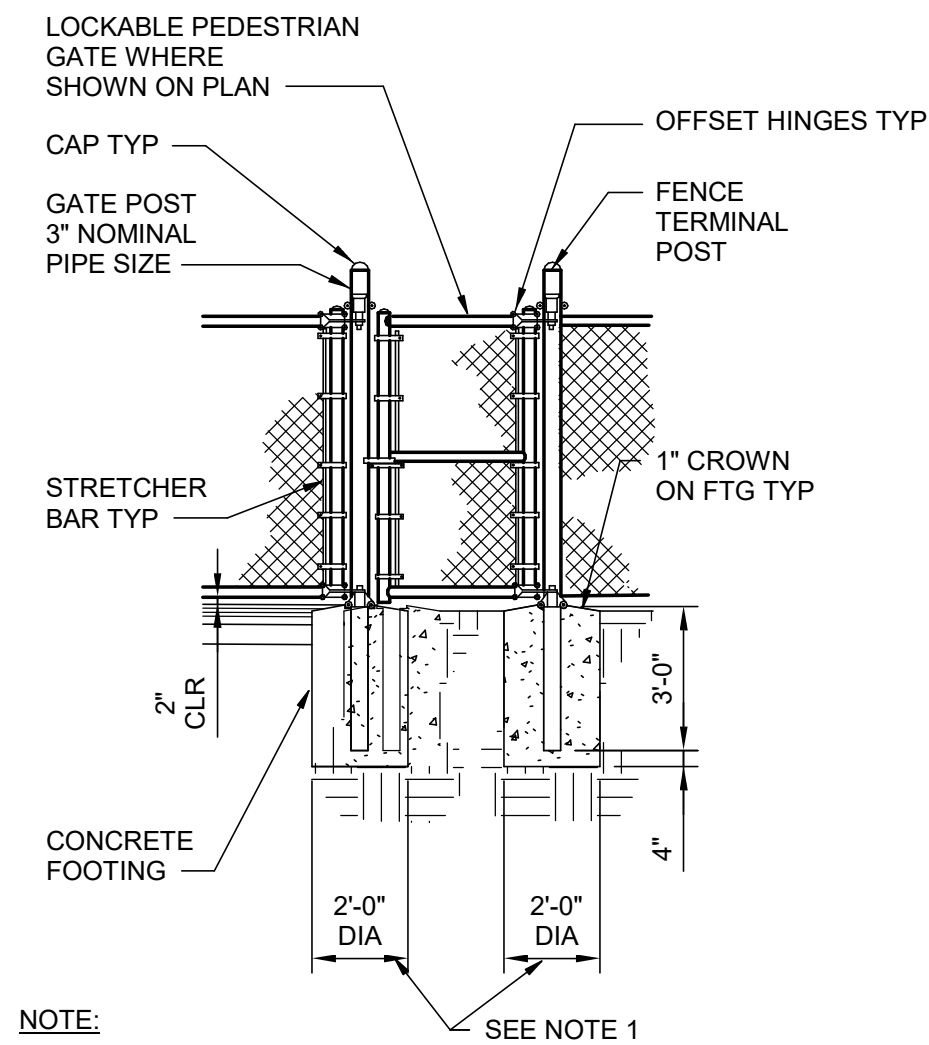
TOC  
EL. 289.33



- GENERAL NOTES:**
- SEE SHEET 00S-001 FOR GENERAL STRUCTURAL NOTES.
  - SEE 00S-500 SERIES SHEETS FOR TYPICAL STRUCTURAL DETAILS.
  - REFER TO ARCHITECTURAL, PROCESS, MECHANICAL, PLUMBING, ELECTRICAL, AND DRAWINGS OF OTHER TRADES FOR LOCATIONS OF OPENINGS, DEPRESSIONS, FLOOR SLOPES AND DRAINS.
  - CONTRACTORS SHALL MARK WHERE THE REBARS ARE LOCATED.
  - SLEEVE ALL PIPE PENETRATIONS THROUGH SLAB WITH PVC PIPE SIZED TO ALLOW PIPE TO FREELY PASS THROUGH SLAB.
  - SEE SPECIFICATION 32 31 13 - CHAIN LINK FENCE AND GATES FOR ADDITIONAL INFORMATION.



### CUT OUT DETAIL FOR CHAIN & LOCK NOT TO SCALE

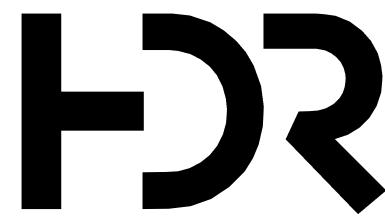


- NOTE:**
- USE 3'-0" DIA CONCRETE FOOTING HOLE FOR POST DIAMETERS GREATER THAN 5" AND USE 4'-0" DIA CONCRETE FOOTING HOLE FOR POST DIAMETERS GREATER THAN 6".

### CHAIN LINK GATE NOT TO SCALE

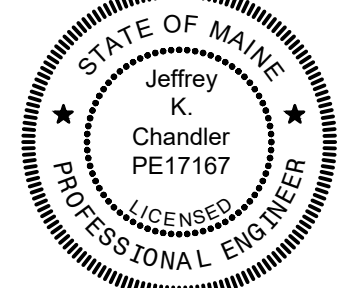


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5/16/2024 8:34:18 AM



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ARCHITECTURAL	M. BASKIN
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ELECTRICAL	A. KANER
PROJECT NUMBER	10357686



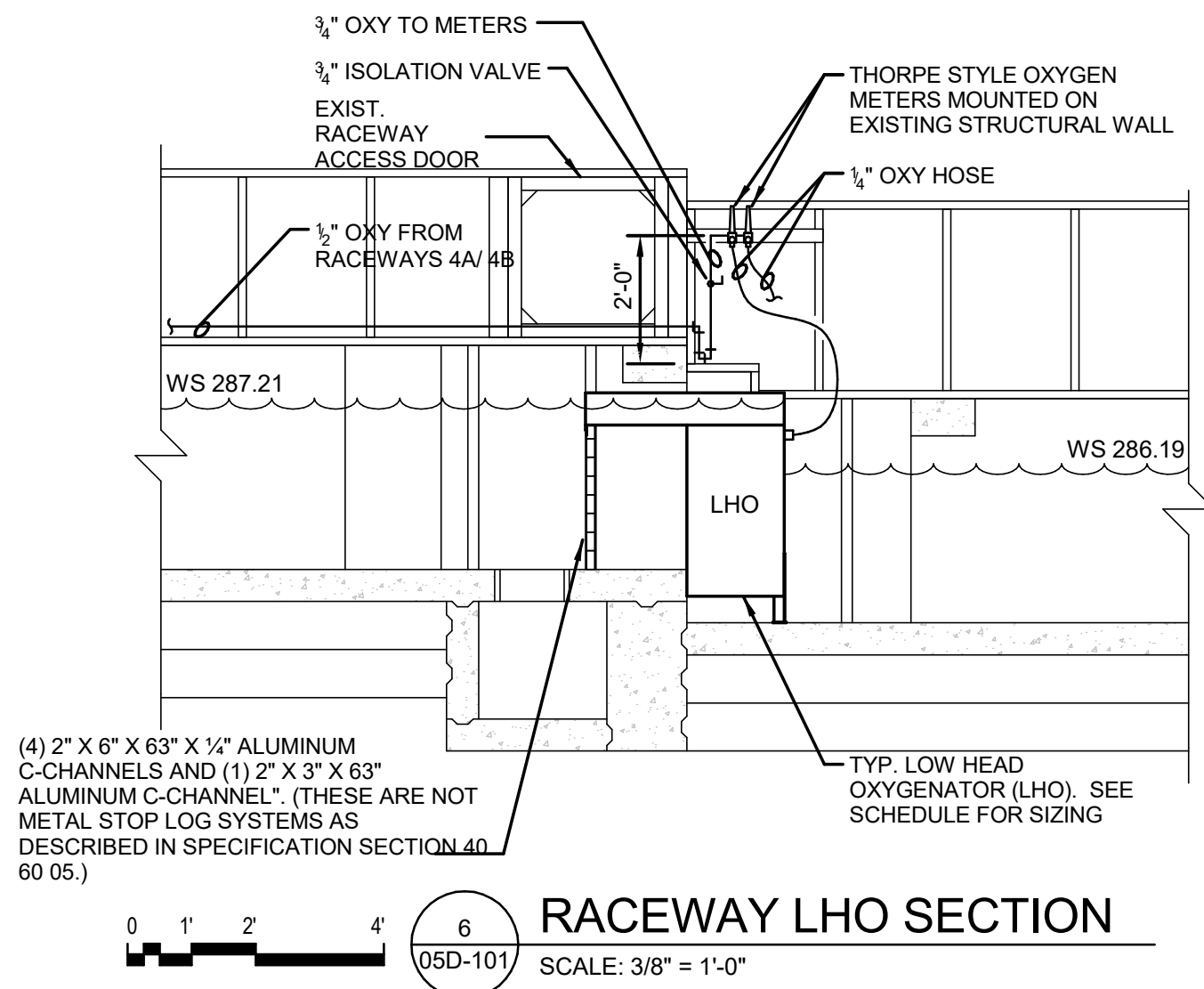
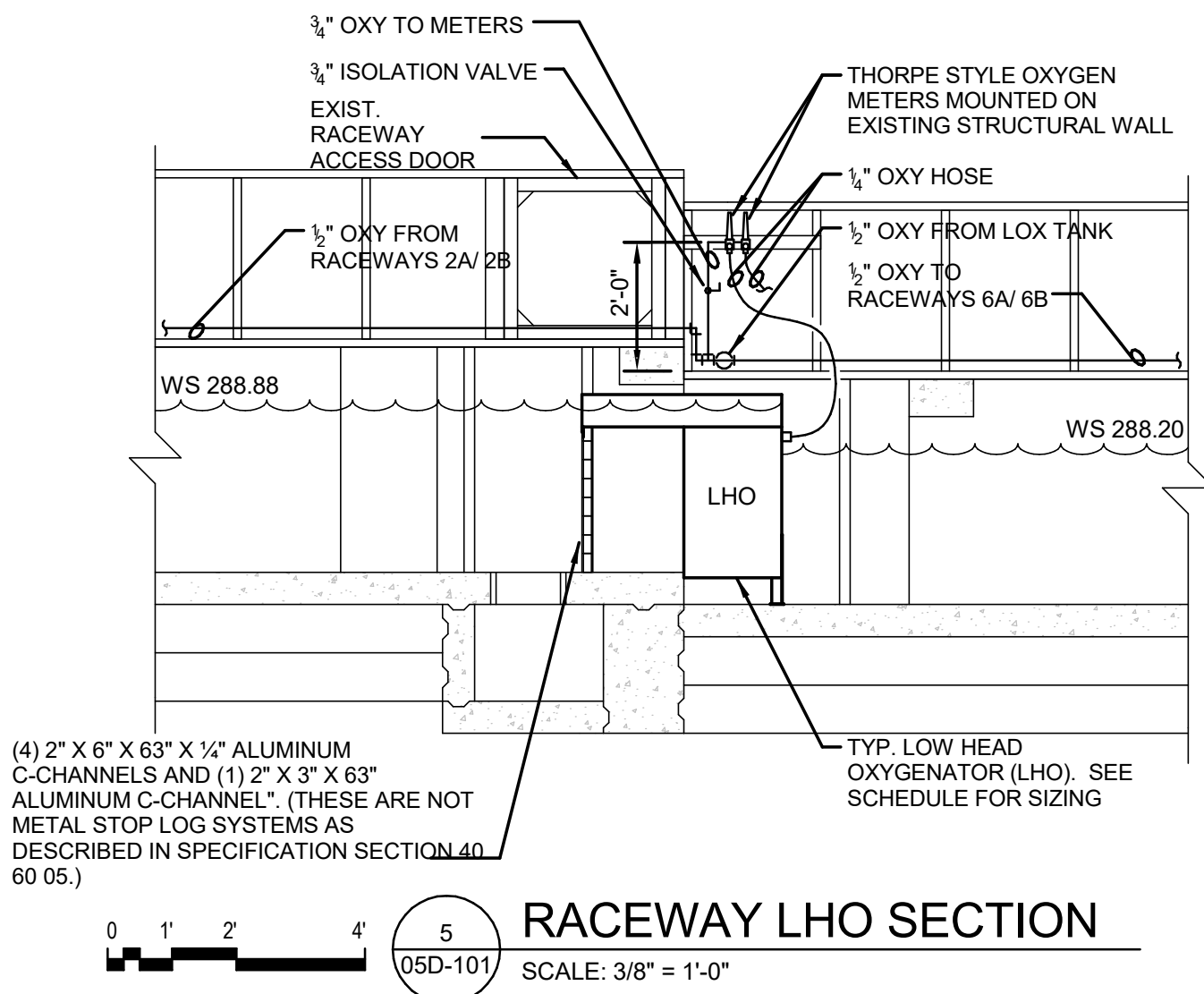
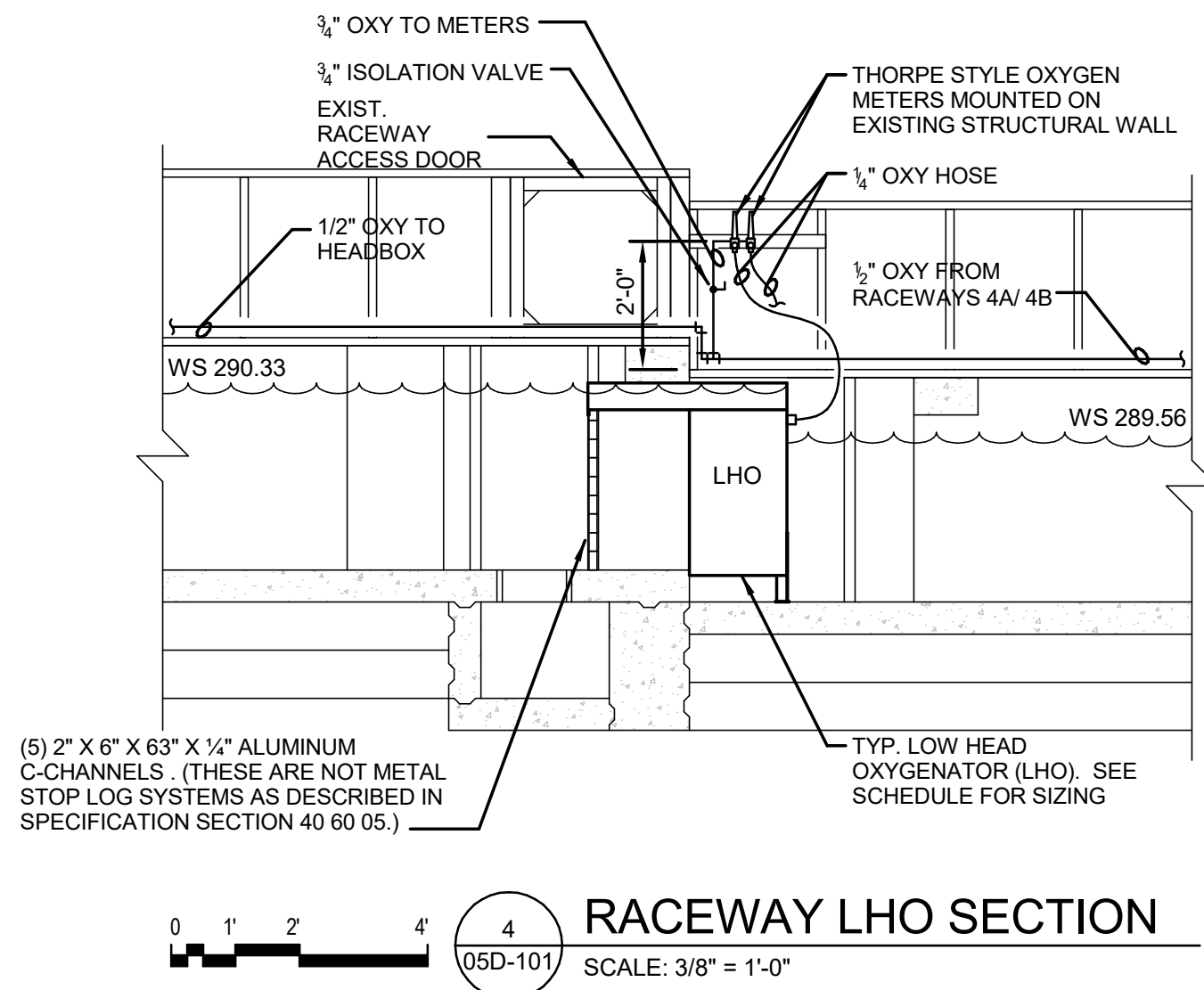
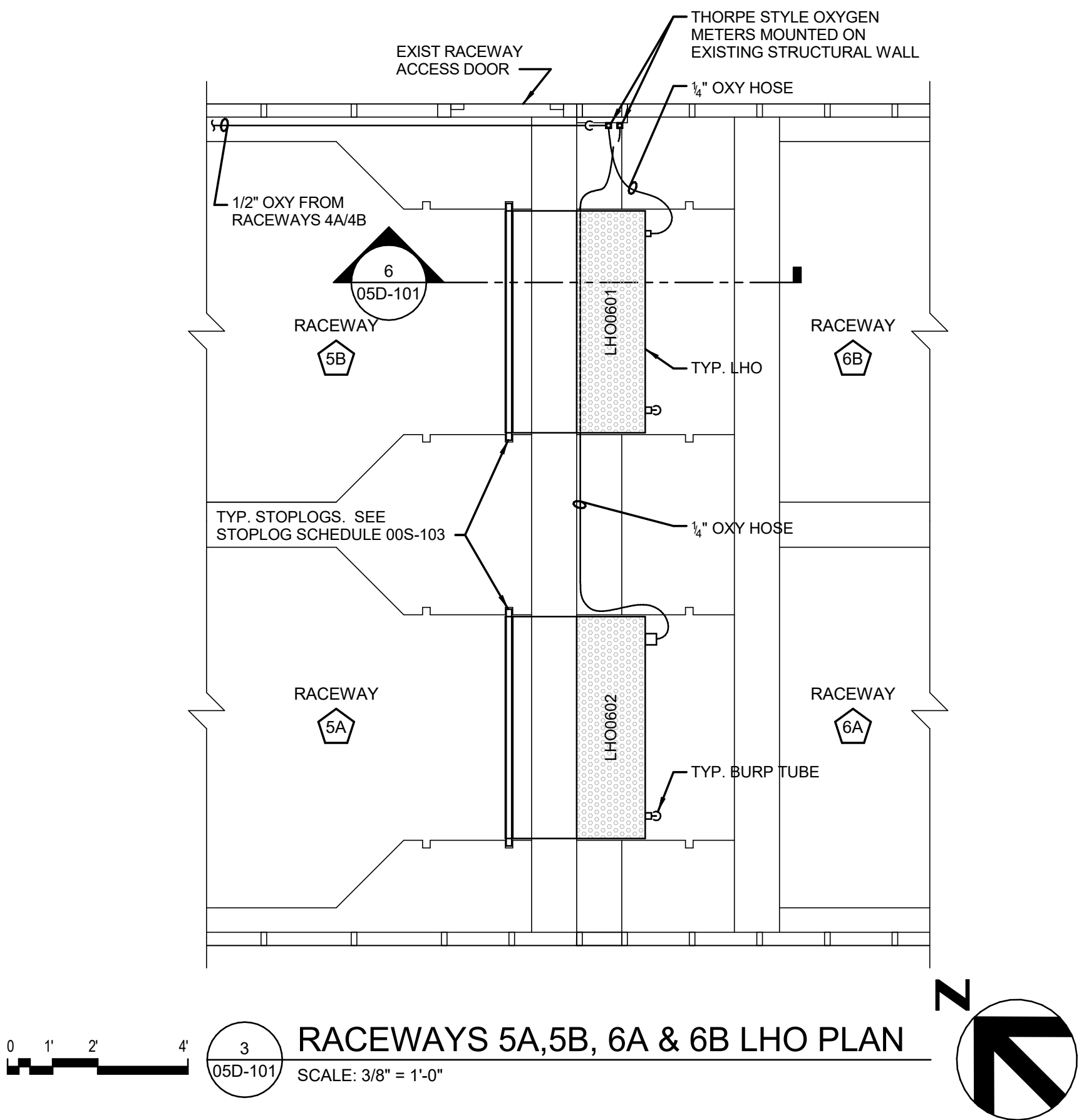
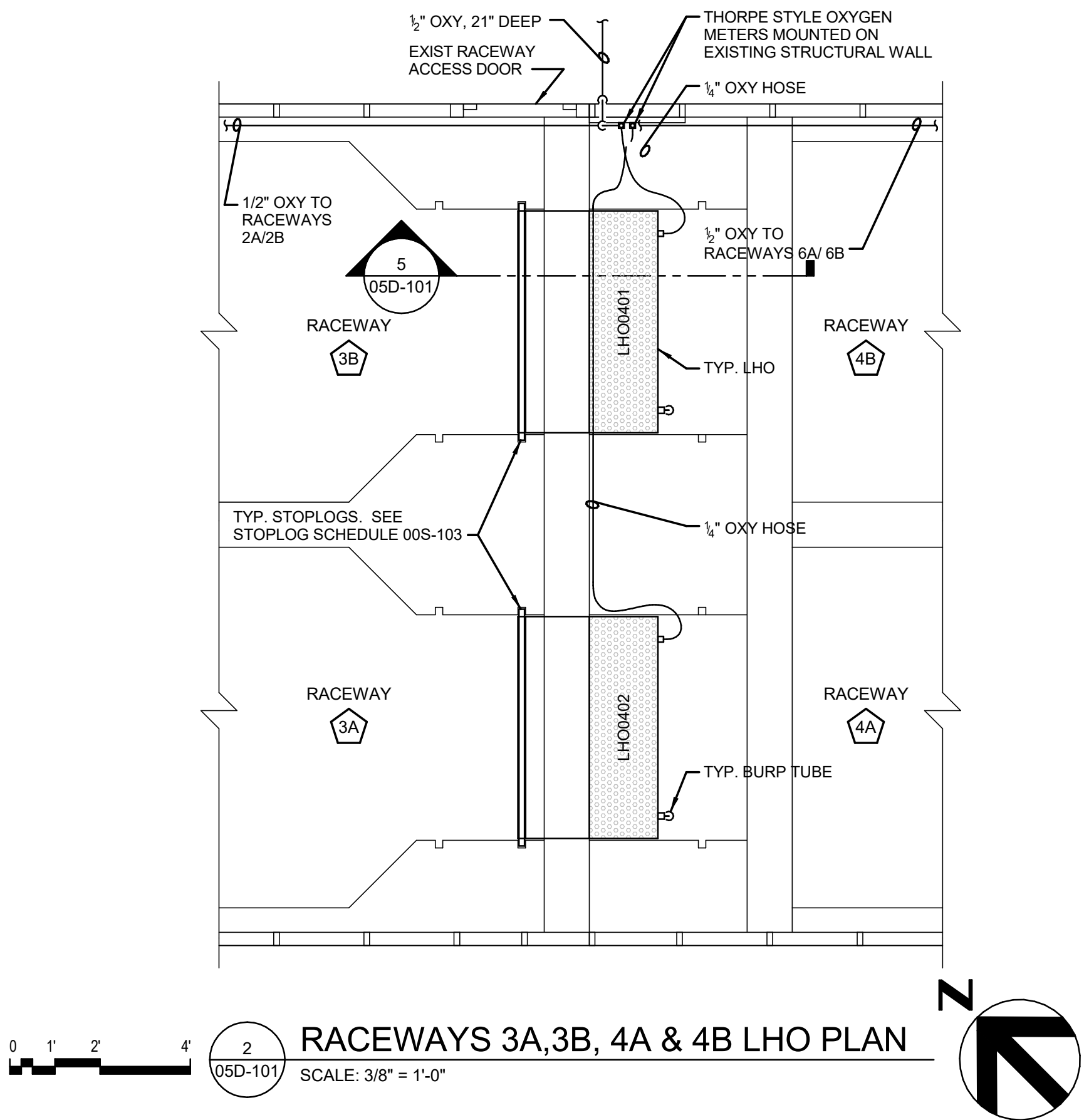
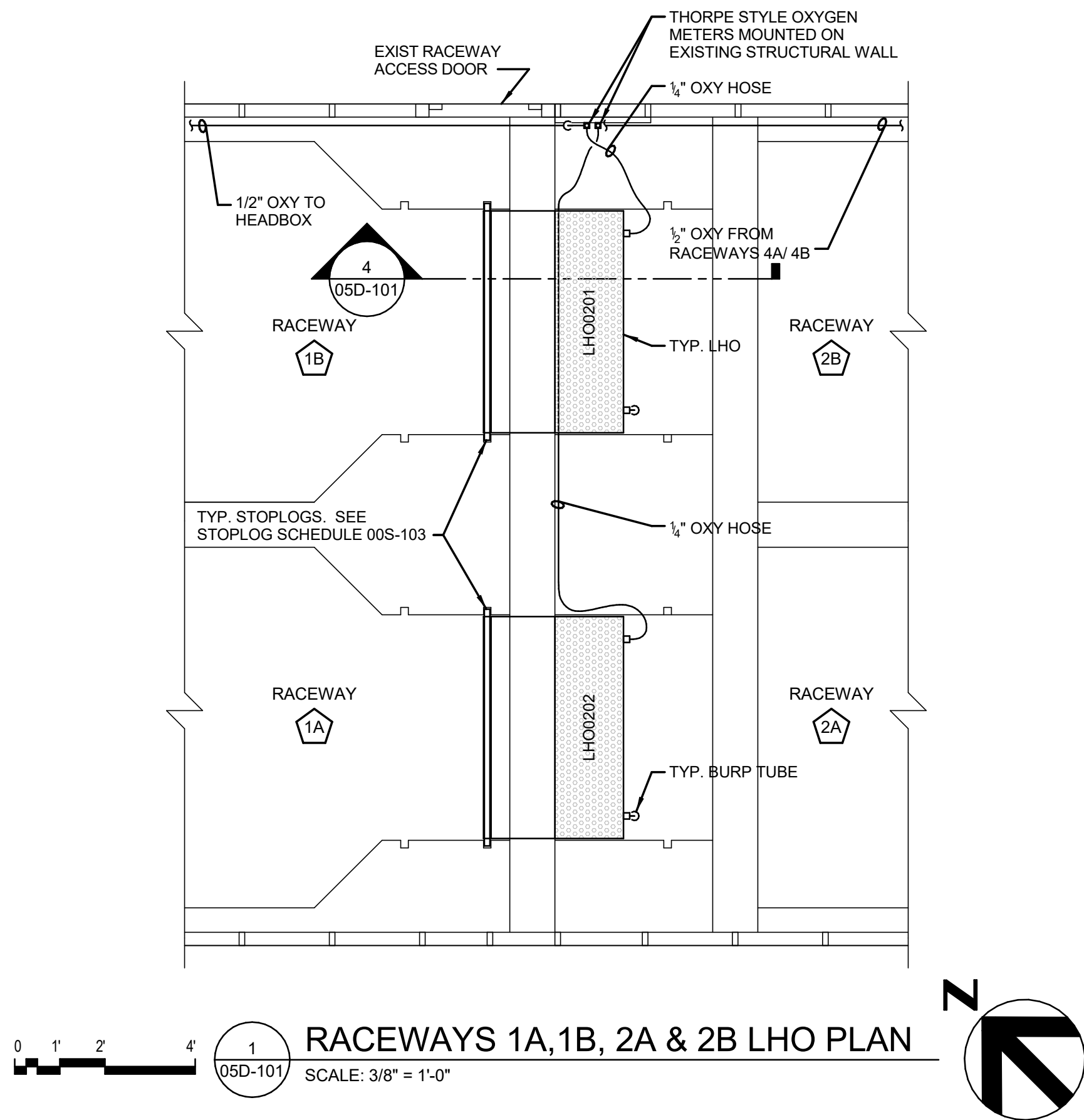
## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

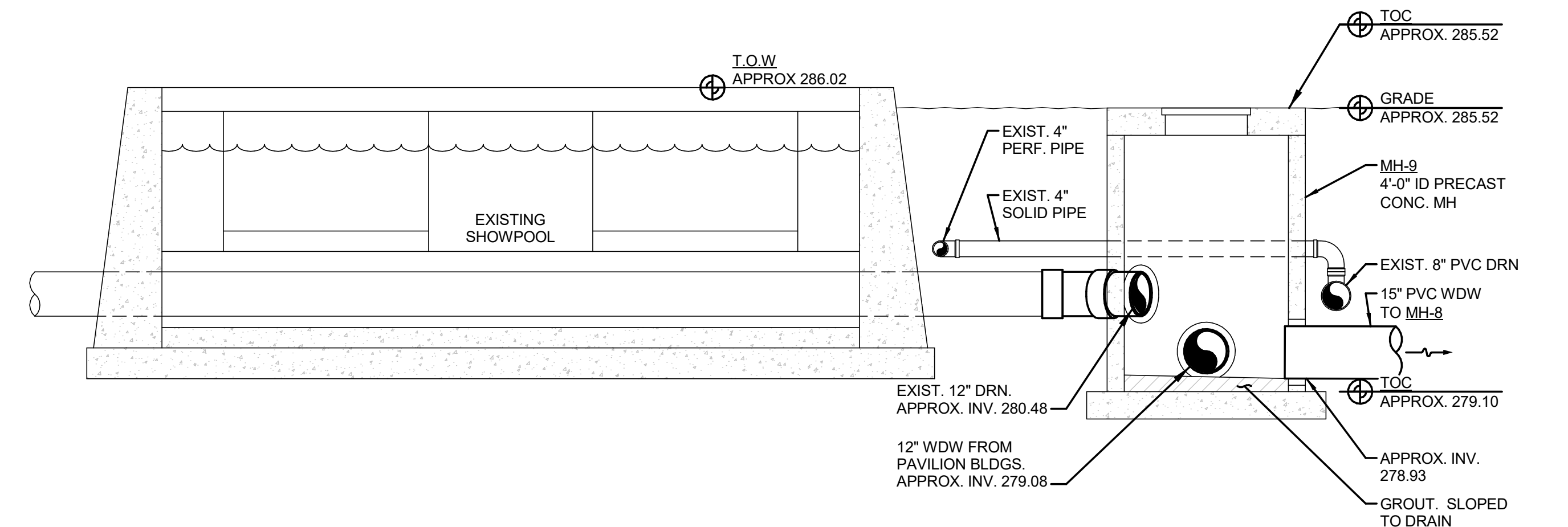
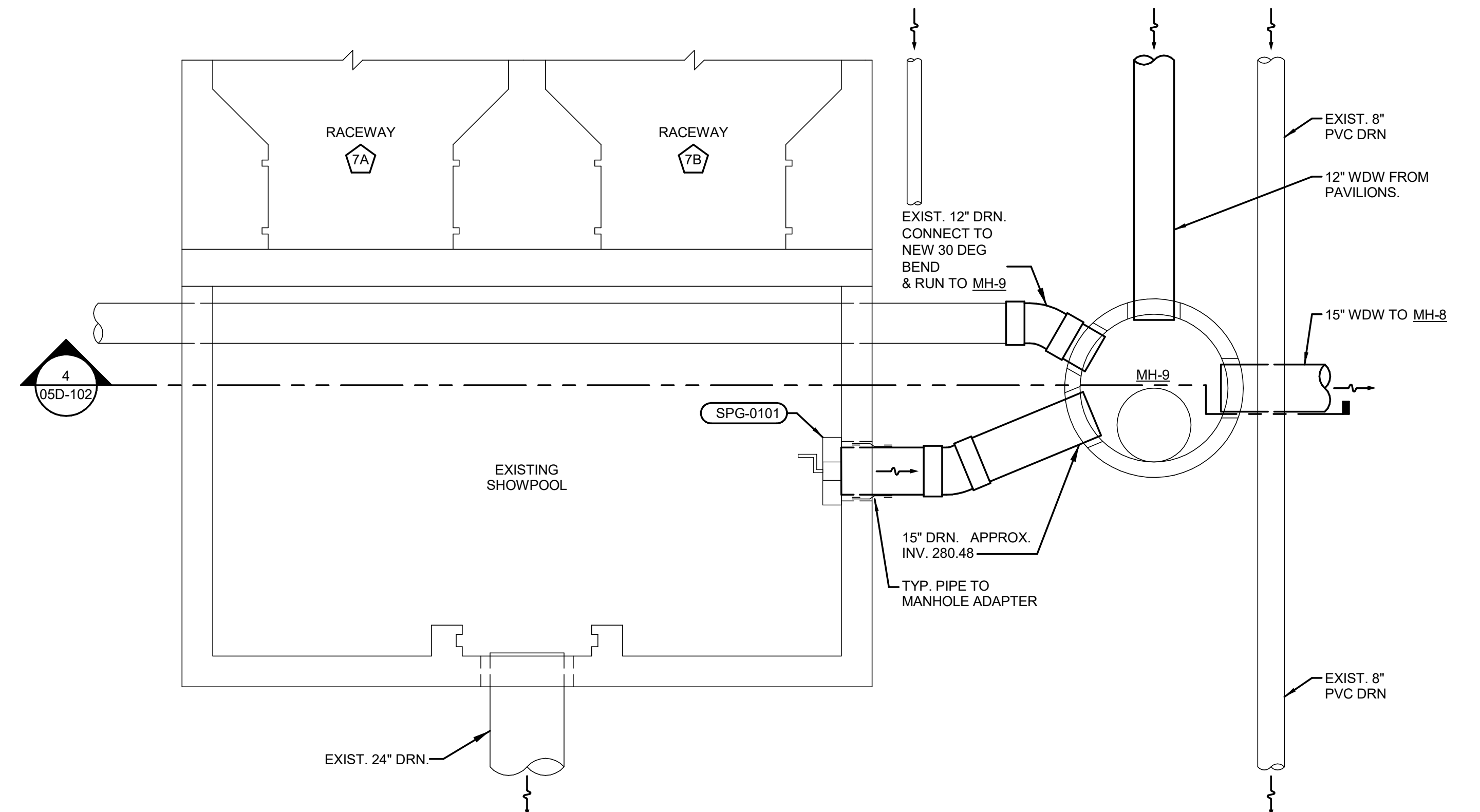
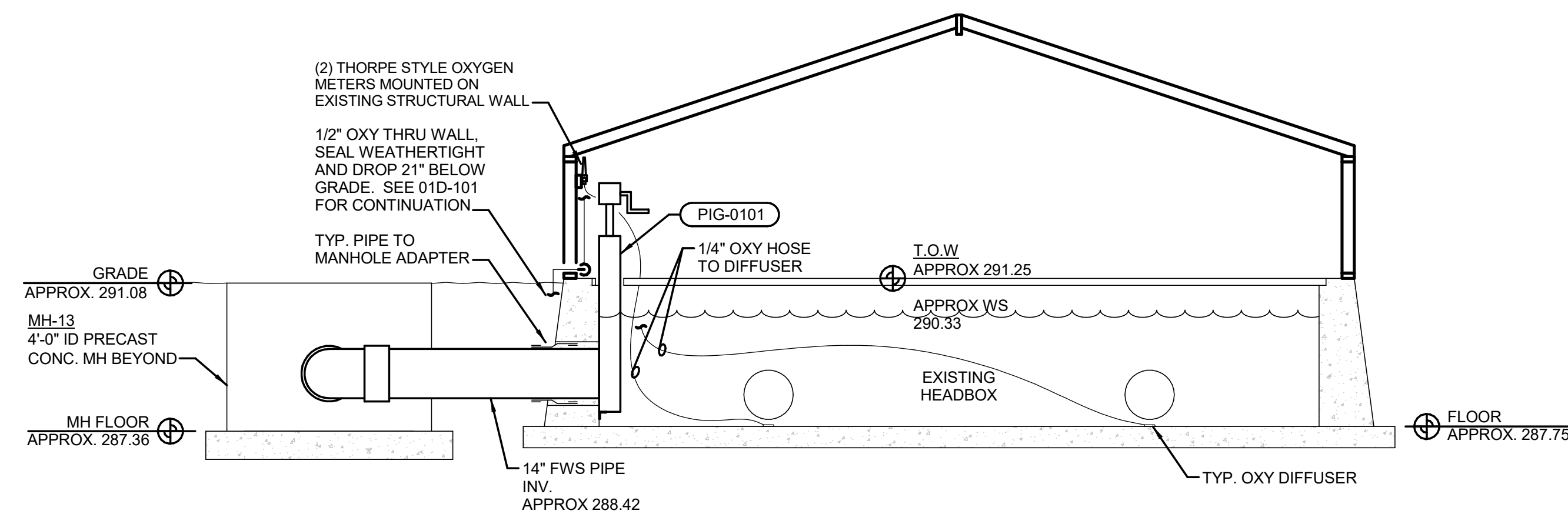
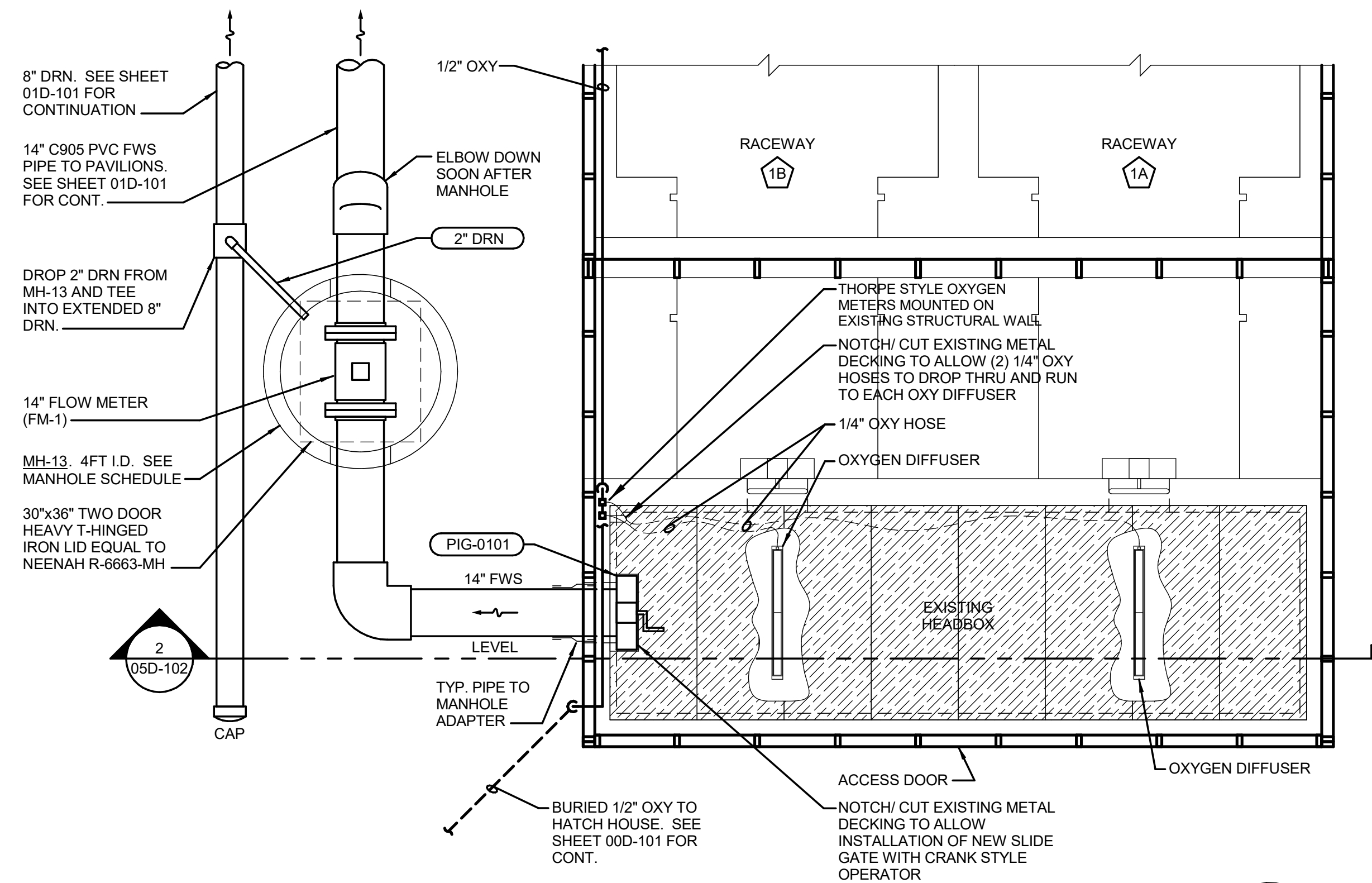
## EXISTING RACEWAYS LHO PIPING PLAN AND SECTIONS



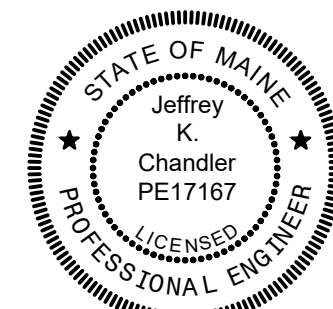
FILENAME 103537686-00-G.rvt  
SCALE 3/8" = 1'-0"

SHEET  
05D-101



[illegible]

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



## IMPROVEMENTS AT GRAND LAKE STREAM STATE FISH HATCHERY

## EXISTING RACEWAY DETAILS



<b>FILENAME</b>	103537686-00-G.rvt
<b>SCALE</b>	3/8" = 1'-0"

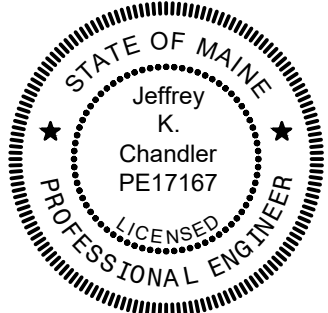
**05D-102**

Autodesk Docs\\10357686\_MaineDIF\_GrandLake Stream Exp\_2022\\10357686-05-U-OXYGEN\_PAD.rvt  
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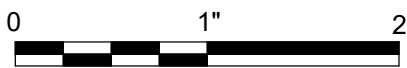


05/03/2024 ISSUED FOR BID		
ISSUE	DATE	DESCRIPTION

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

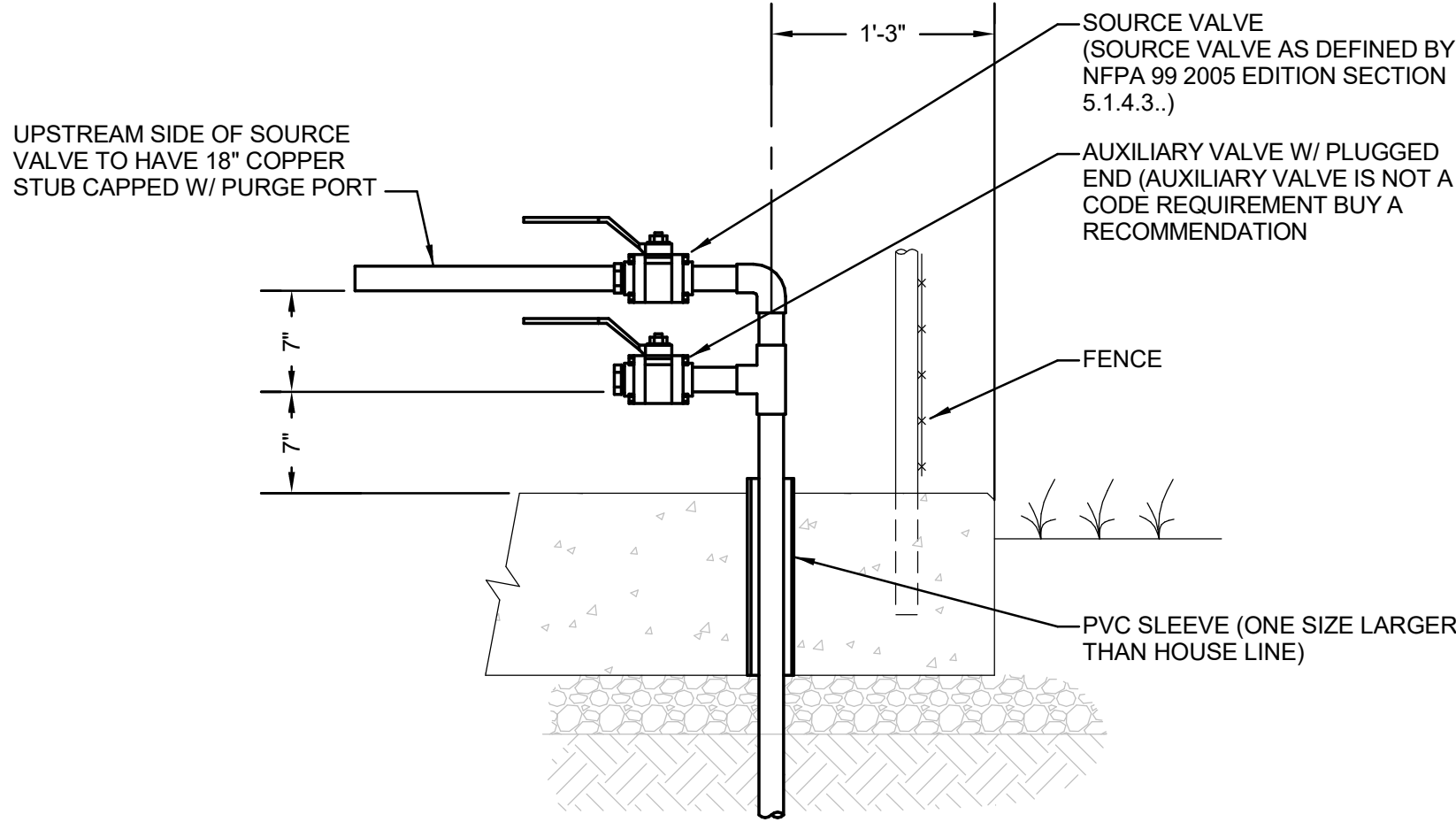
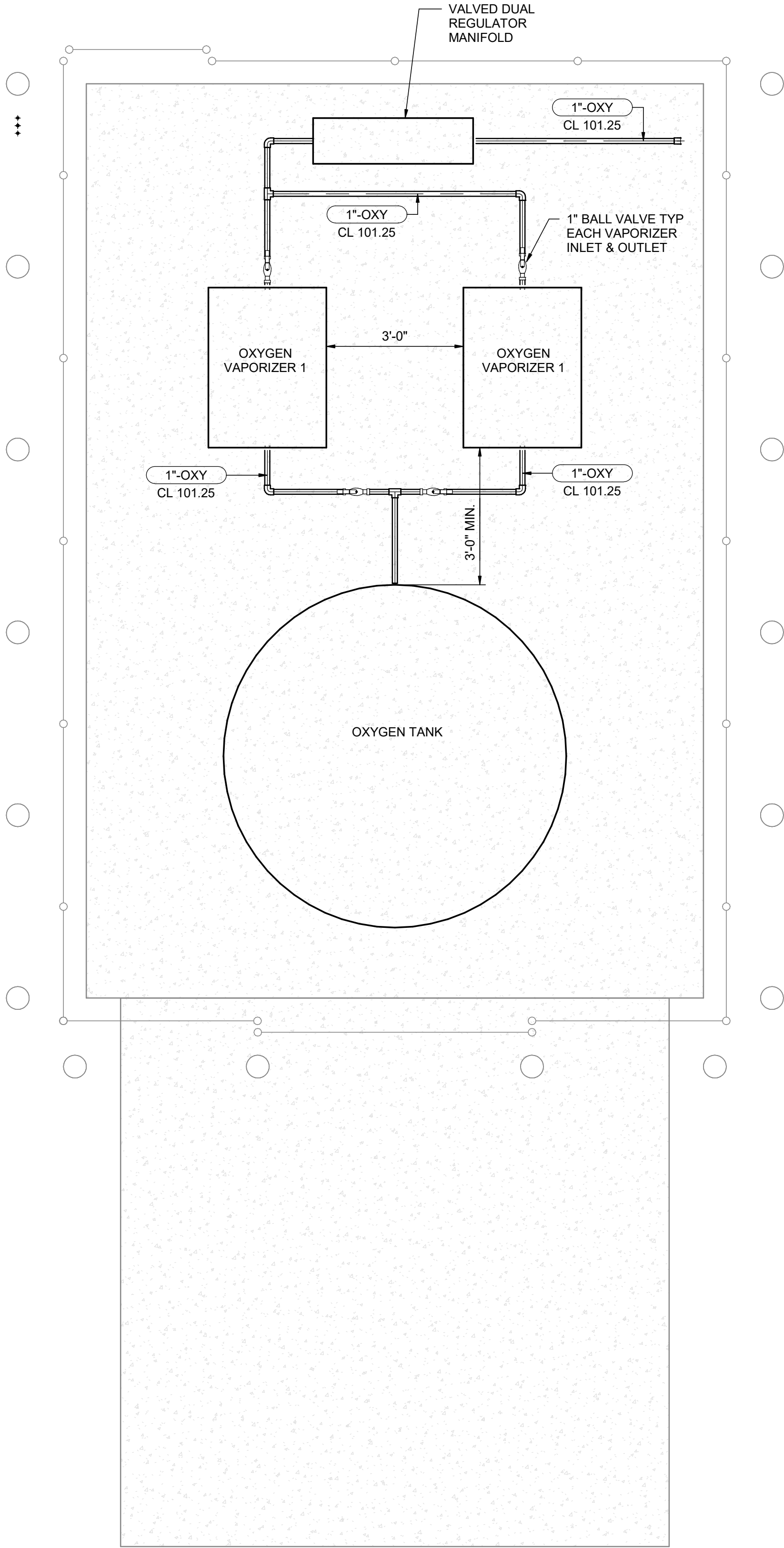


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SCALE	As indicated

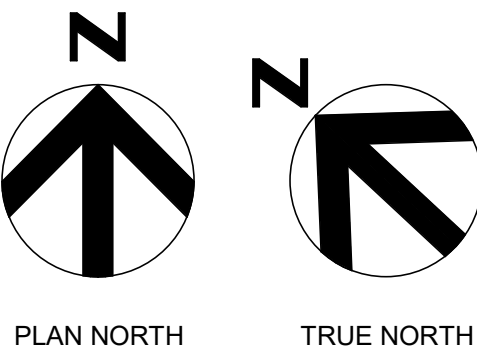
SHEET  
05D-103



PROCESS PLAN

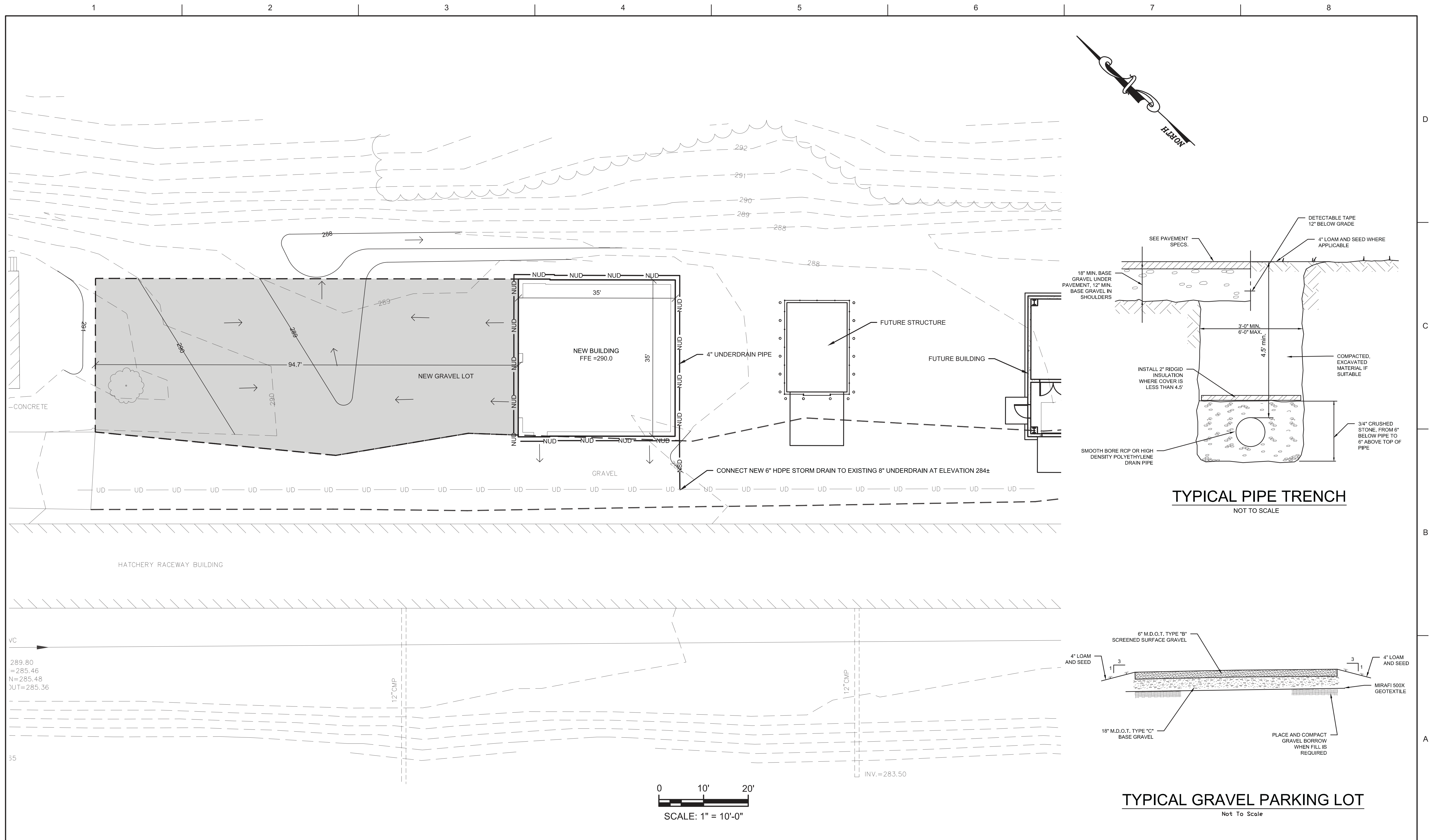


2 HOUSE LINE DETAIL  
NOT TO SCALE









						PROJECT MANAGER	BEM
ISSUE	05/03/2024	DATE	DESCRIPTION			PROJECT NUMBER	10357686



## IMPROVEMENTS AT GRAND LAKE STREAM

### GRAND LAKE STREAM, MAINE

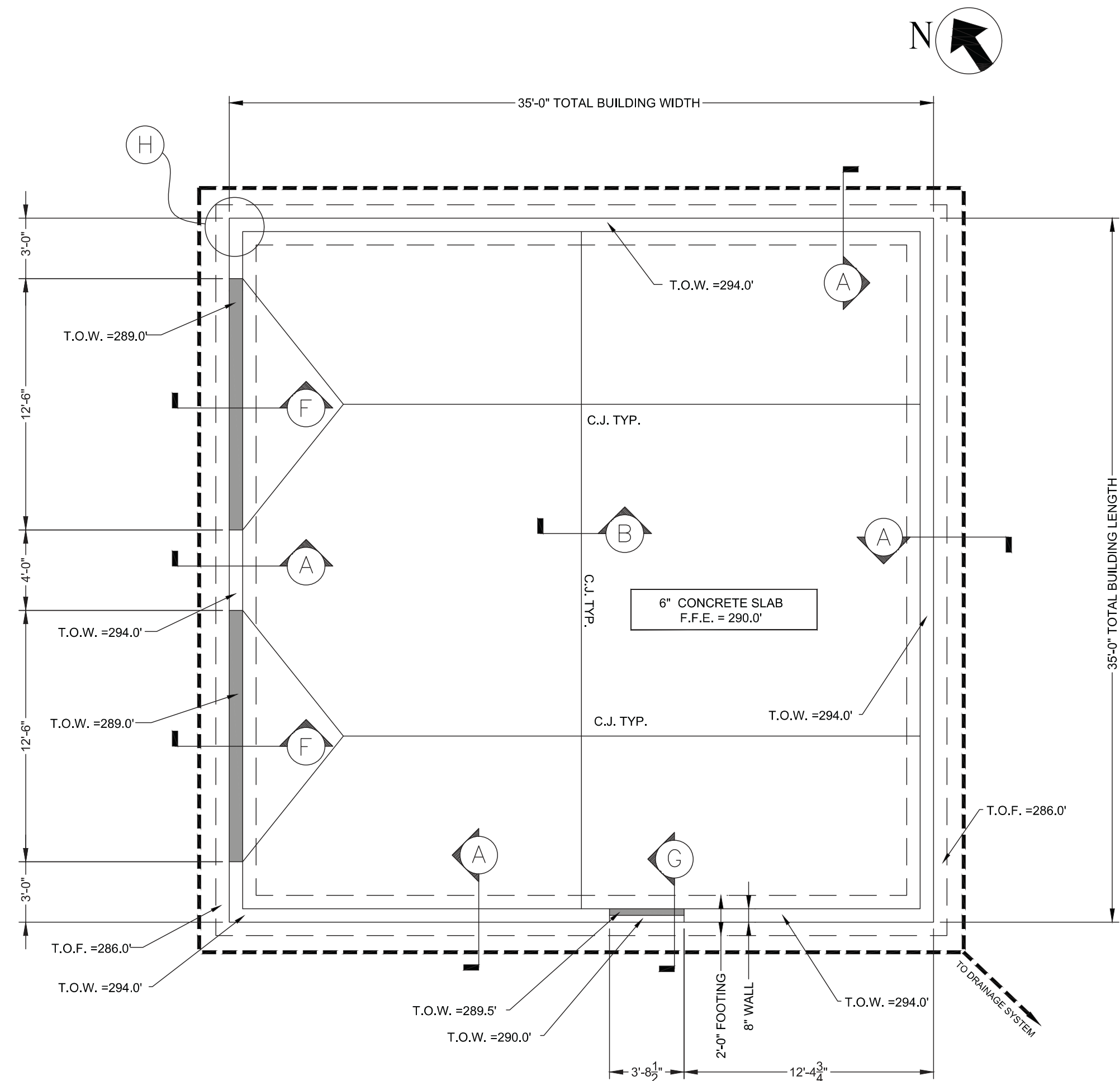
## STORAGE BUILDING SITE PLAN

FILENAME	17-23	SHEET
SCALE	1"=10'	<b>06C-101</b>

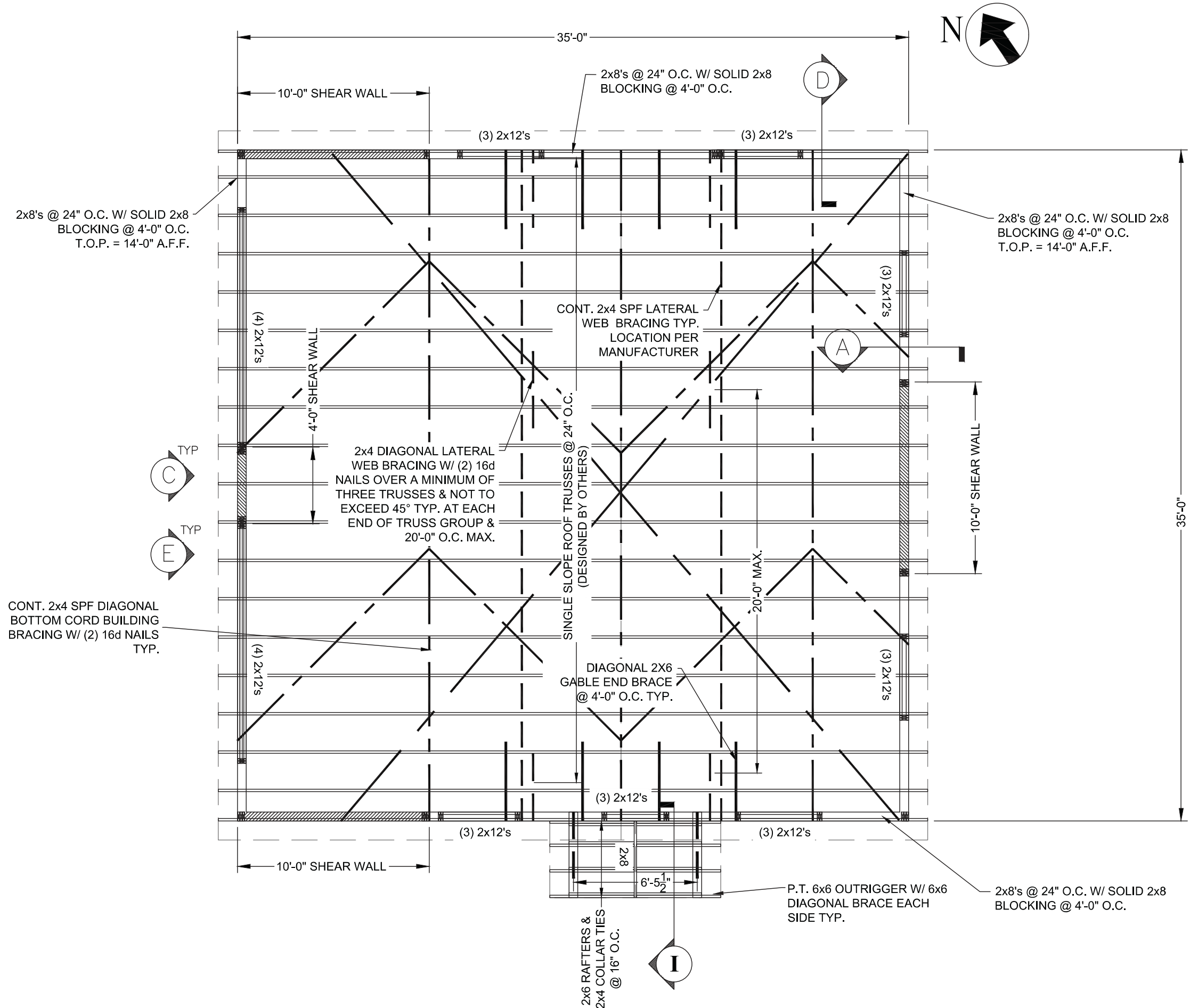








FOUNDATION PLAN  
SCALE 3/16" = 1'-0"



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

BRACING LEGEND	
	GABLE END BRACE
	LATERAL WEB BRACE
	LATERAL DIAGONAL WEB BRACE
	BOTTOM CHORD BRACE

ISSUE		
DATE	DESCRIPTION	
05/03/2024	ISSUED FOR BID	

PROJECT NUMBER	
10357686	







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

A. OCCUPANCY: S-1 MODERATE HAZARD STORAGE

B. CONSTRUCTION TYPE (602): VB

C. ALLOWABLE AREA: 9,000 SF

D. ACTUAL FLOOR AREA: 1,225 SF

E. MAX. ALLOWABLE HEIGHT (STORIES): 40' (1)

F. ACTUAL HEIGHT (STORY): &lt; 40' (1)

G. OCCUPANT LOAD:  $1,225 \text{ SF} / 300\text{SF PER PERSON} = 5 \text{ OCCUPANTS}$

H. EGRESS REQUIREMENTS: 2 EXITS

. 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.

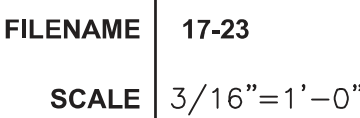
PLUMBING FIXTURES:  
1. EXISTING FACILITIES ONSITE HAVE ADEQUATE RESTROOM, MOP SINK, AND DRINKING FOUNTAINS. THE NEW ADDITION STORAGE BUILDING SHALL NOT REQUIRE A RESTROOM, MOP SINK, AND DRINKING FOUNTAIN BECAUSE EXISTING FACILITIES ARE AVAILABLE ONSITE.

SCALE 3/16" = 1'-0"

DOOR SCHEDULE

NOTES:

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

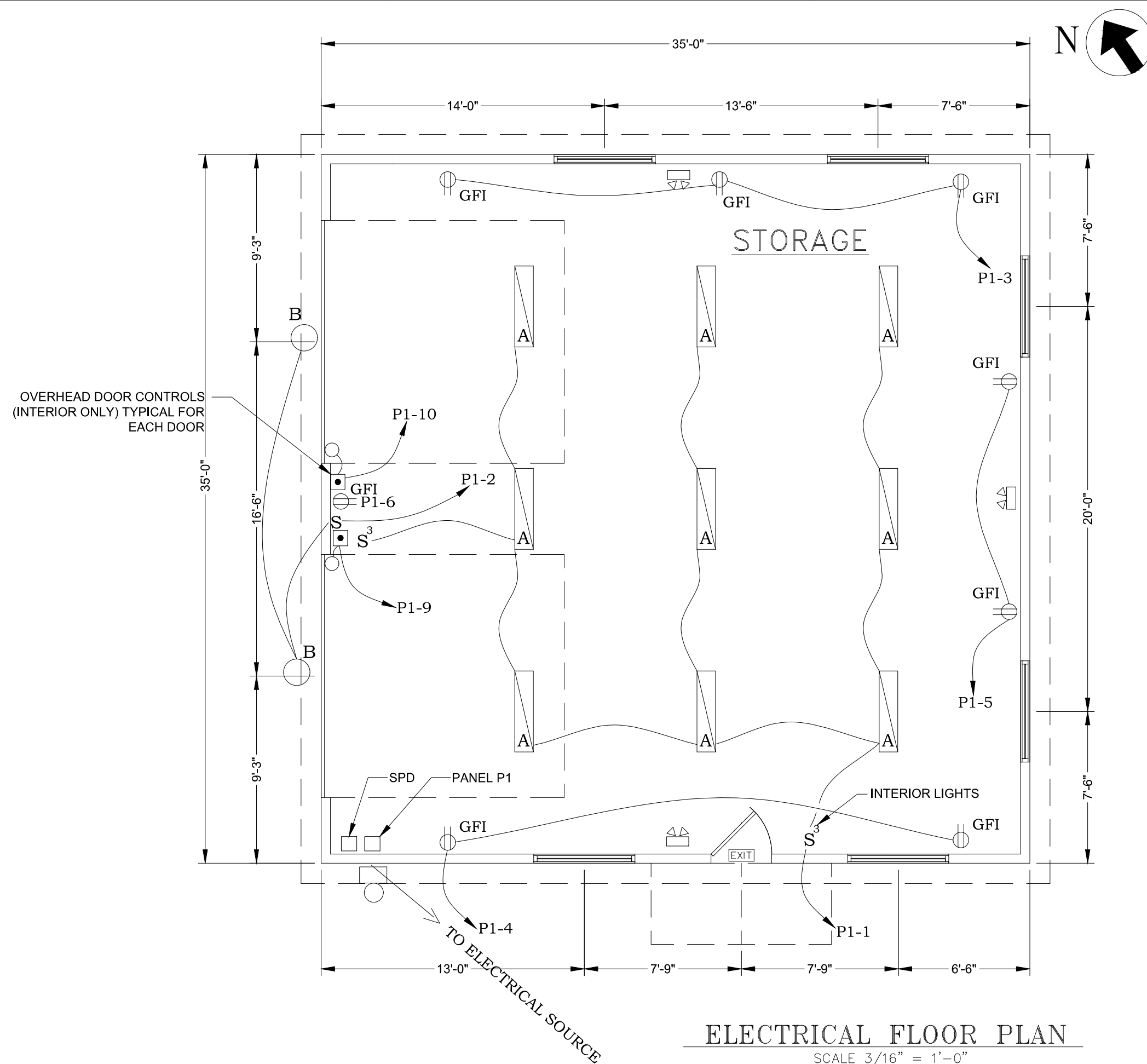
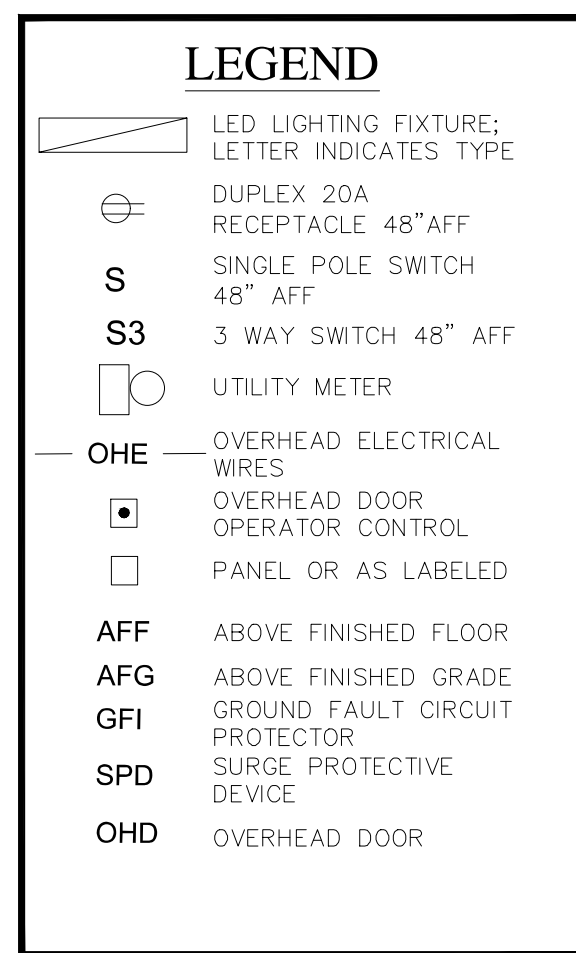




			PROJECT MANAGER	BEM
05/03/2024	ISSUED FOR BID			
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10357686

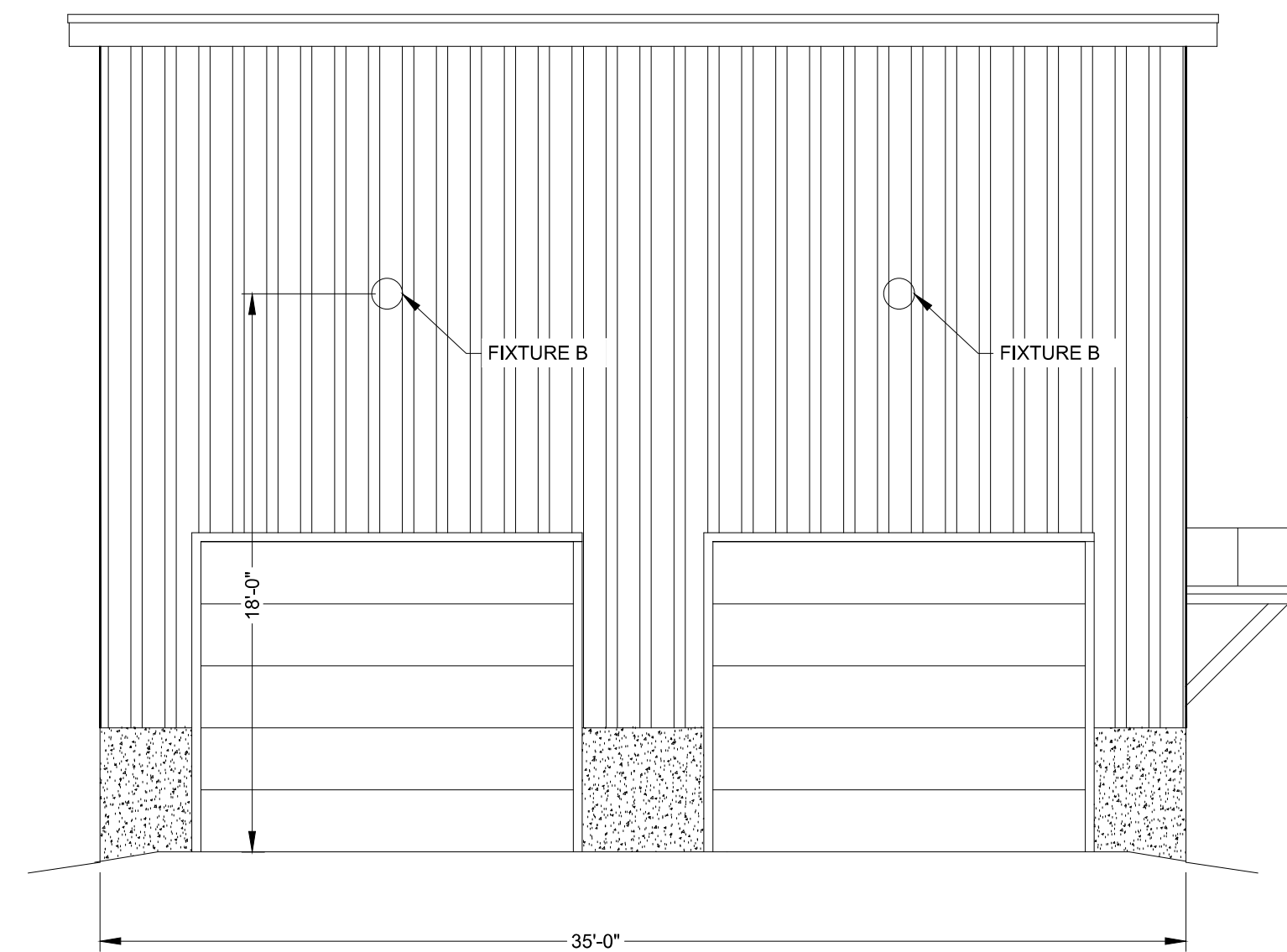






**A** FIELD COORDINATE MOUNTING FOR  
POWER TO OVERHEAD DOOR

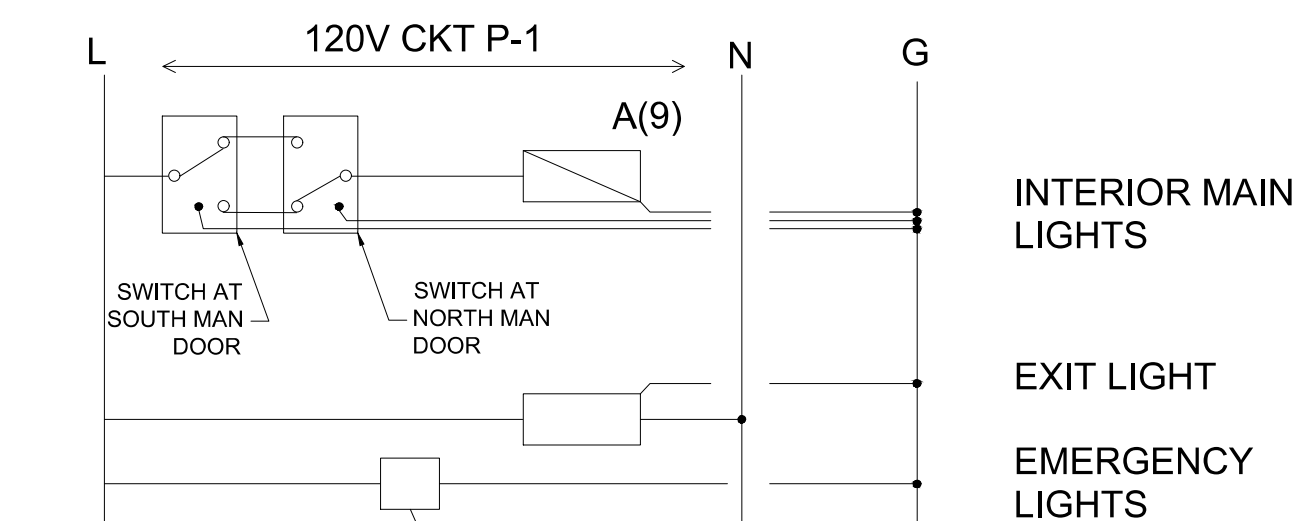
NOTE:  
CONTRACTOR SHALL PERFORM VOLTAGE DROP  
CALCULATIONS FOR INTERIOR LIGHTING CIRCUIT  
AND RECEPTACLE CIRCUITS AND PROVIDE  
CONDUCTORS THAT LIMIT THE VOLTAGE DROP  
TO A MAXIMUM OF 3%. CALCULATIONS SHALL  
BE SUBMITTED WITH SHOP DRAWINGS FOR  
ENGINEERS APPROVAL.



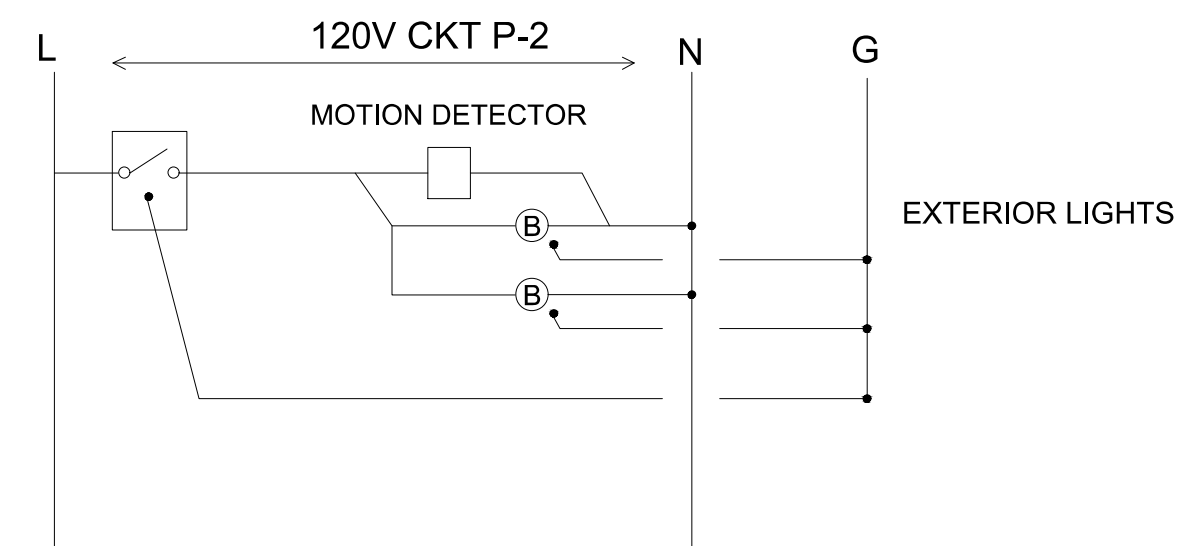
ELECTRICAL ELEVATION  
SCALE 3/16" = 1'-0"

FIXTURE SCHEDULE				
TYPE	FIXTURE MAKE	FIXTURE MODEL	MOUNTING	LAMPING
A	LITHONIA	ZLN 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 MOTION CONTROLLER	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

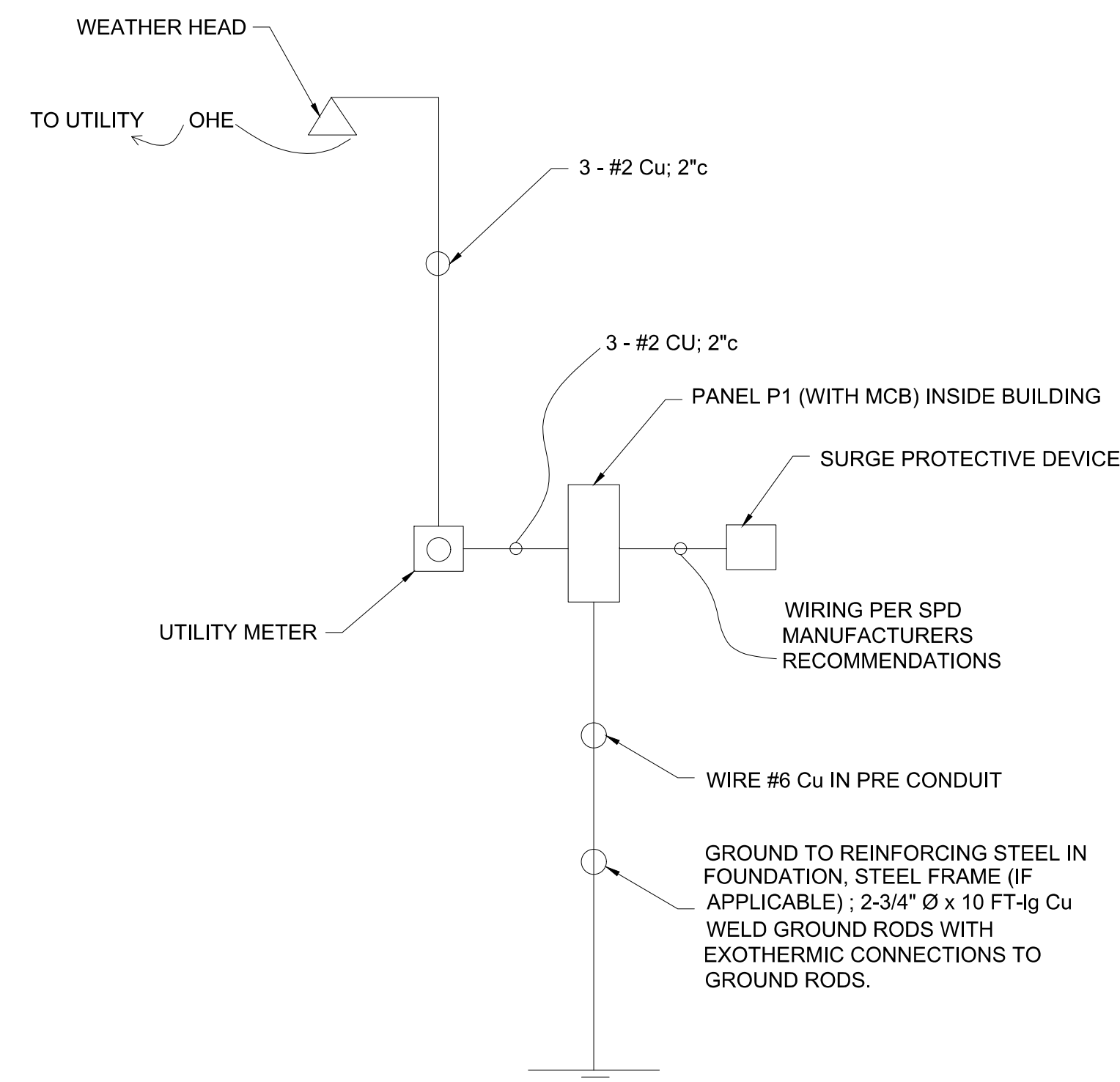
PANEL P1 SCHEDULE - A SURFACE MOUNTED				
100 AMP MCB,240/120 VOLT, 1 PHASE, 3 WIRE, 60 HZ				
CIRCUIT NO.	DESCRIPTION	NO. POLES	RATING	LOAD
1	INTERIOR LIGHTS	1	20*	1.6A
2	EXTERIOR LIGHTS	1	20*	1.3A
3	RECEPT - N	1	20	4.5A
4	RECEPT - S	1	20	3.0A
5	RECEPT - E	1	20	3.0A
6	RECEPT - W	1	20	1.5A
7	SPACE	1	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	SPARE	2	20	
15,16	SPACE	1	20	
17-24	SPACE	-	20	
* PROVIDE HANDLE LOCK ON CIRCUITS				
** RATING PER SPD MANUFACTURER RECOMMENDATION				



## MAIN INTERIOR LIGHT WIRING DIAGRAM



## WORK AND EXTERIOR LIGHTING WIRING DIAGRAM



ELECTRIC SERVICE INTERCONNECTION DIAGRAM



TYPICAL OHD INTERCONNECTION DIAGRAM