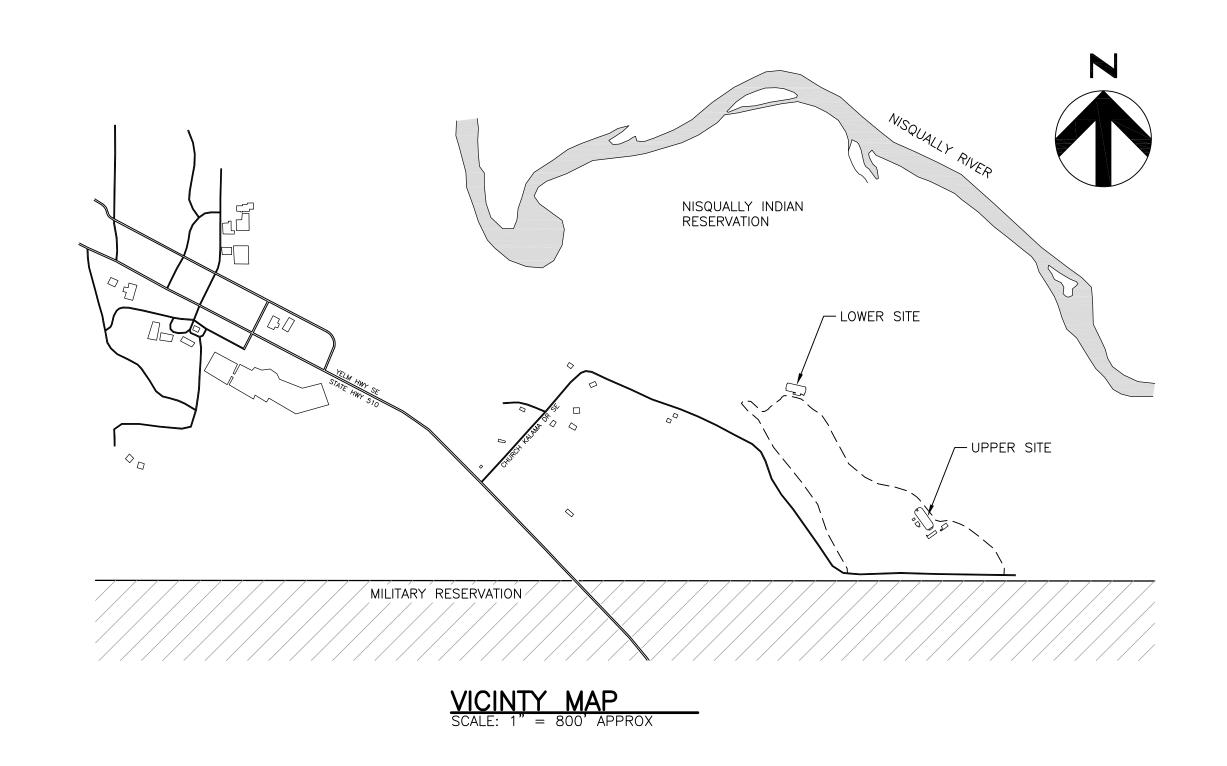
KALAMA CREEK HATCHERY PHASE 2 NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880





THE GOALS OF THE PROJECT ARE TO INCREASE FISH REARING CAPACITY, BIO-SECURITY, WATER QUALITY, INCREASE WATER RE-USE CAPACITY, AND INCREASE THE NUMBER OF REARING UNITS AVAILABLE TO ADD FLEXIBILITY TO THE SALMON ENHANCEMENT PROGRAM IN ANTICIPATION OF CURRENT AND FUTURE HATCHERY PROGRAMS.



INDEX OF DRAWINGS GENERAL 00 ADULT HANDLING BUILDING 13 (DEDUCTIVE ALTERNATE 03) 1 00G001 COVER, STATE MAP AND VICINITY MAP 40 13A101 FLOOR PLAN AND ROOF PLAN 2 00G002 DRAWING INDEX 41 13A102 SECTIONS 3 00G003 DRAWING SYMBOLOGY 42 13S101 FOUNDATION PLAN AND DETAILS 4 00C102 EXISTING LOWER SITE TOPOGRAPHIC SURVEY 43 13S401 SECTIONS 44 13S402 SECTIONS STANDARDS 01 45 13M101 MECHANICAL FLOOR PLAN 46 13E101 ELECTRICAL PLAN 5 01C402 EROSION AND SEDIMENT CONTROL DETAILS CIRCULAR TANK BUILDING 15 6 01C404 FENCING AND GATE DETAILS 7 01C405 DETAILS 8 01S001 STRUCTURAL NOTES 47 15A101 FLOOR PLAN AND CODE SUMMARY 9 01S401 STRUCTURAL DETAILS 1 48 15A201 SECTION 10 01S402 STRUCTURAL DETAILS 2 49 15S101 FOUNDATION PLAN AND SECTIONS 11 01S403 STRUCTURAL DETAILS 3 50 15S401 STRUCTURAL SECTIONS AND DETAILS 12 01S405 STRUCTURAL DETAILS 5 51 15D101 PIPING PLAN 13 01D001 PROCESS SYMBOLS AND ABBREVIATIONS 52 15D102 PARTIAL PIPING PLANS 14 01D401 PROCESS PIPING DETAILS 53 15D401 25' DIA TANK SECTIONS AND DETAILS 15 01D402 PROCESS PIPING DETAILS 54 15D402 SECTIONS 55 15D403 PARTIAL PIPING PLAN AND MANHOLE SECTIONS 16 01D501 PROCESS PIPE AND EQUIPMENT SCHEDULES 17 01D502 GATE SCHEDULE AND DETAILS 56 15M101 MECHANICAL PLAN 57 15M401 SECTIONS 18 01M001 MECHANICAL SYMBOLS AND ABBREVIATIONS 19 01M003 MECHANICAL SCHEDULES 58 15E101 ELECTRICAL PLAN 20 01E001 ELECTRICAL LEGEND 1 59 15E102 PARTIAL ELECTRICAL PLAN 1 21 01E002 ELECTRICAL LEGEND 2 60 15E103 PARTIAL ELECTRICAL PLAN 2 22 01E401 ELECTRICAL DETAILS 1 61 15E104 LIGHTING PLAN 62 15E105 ELECTRICAL CONTROL DIAGRAMS 23 01E402 ELECTRICAL DETAILS 2 24 01E403 ELECTRICAL DETAILS 3 63 15E401 ALARM PANEL AP200 25 01E404 ELECTRICAL DETAILS 4 POLLUTION ABATEMENT POND (LOWER SITE) 16 (DEDUCTIVE ALTERNATE 02) **DEMOLITION 02** 64 16S101 PLANS 26 02C102 LOWER SITE PLAN 65 16S401 SECTIONS 66 16D101 PIPING PLAN AND SECTIONS LOWER SITE 04 67 16D401 SECTIONS 68 16D402 LIFT STATION 69 16E101 ELECTRICAL PLAN 27 04C101 OVERALL SITE PLAN 28 04C103 SITE GRADING AND DRAINAGE PLAN 29 04C301 INTAKE SCREEN PLAN, SECTIONS AND DETAILS 30 04S101 PICKET PANEL FENCE PLAN, SECTIONS AND DETAILS 31 04S401 PICKET PANEL FENCE SECTIONS AND DETAILS 32 04S402 PREDATION NETTING SECTION AND DETAILS 33 04S403 CROWDER SECTIONS AND DETAILS 34 04D101 UTILITY PLAN (DEDUCTIVE ALTERNATE 01) 35 04D401 PIPING DETAILS AND SECTIONS 36 04E101 ELECTRICAL SITE PLAN 37 04E102 ELECTRICAL HANDHOLE AND DUCTBANK SCHEDULES 38 04E103 ELECTRICAL SCHEDULES 39 04E401 SITE ELECTRICAL ONE LINE DIAGRAM

			PROJECT MANAGER	ERIC ORTON P.E.
			DESIGN BY	ACB
			 DESIGN BY	
			 CHECKED BY	
			DRAWN BY	ACB
_	-	-	PLOT DATE	May 18, 2023
SSUE	DATE	DESCRIPTION	PROJECT NUMBER	10176455



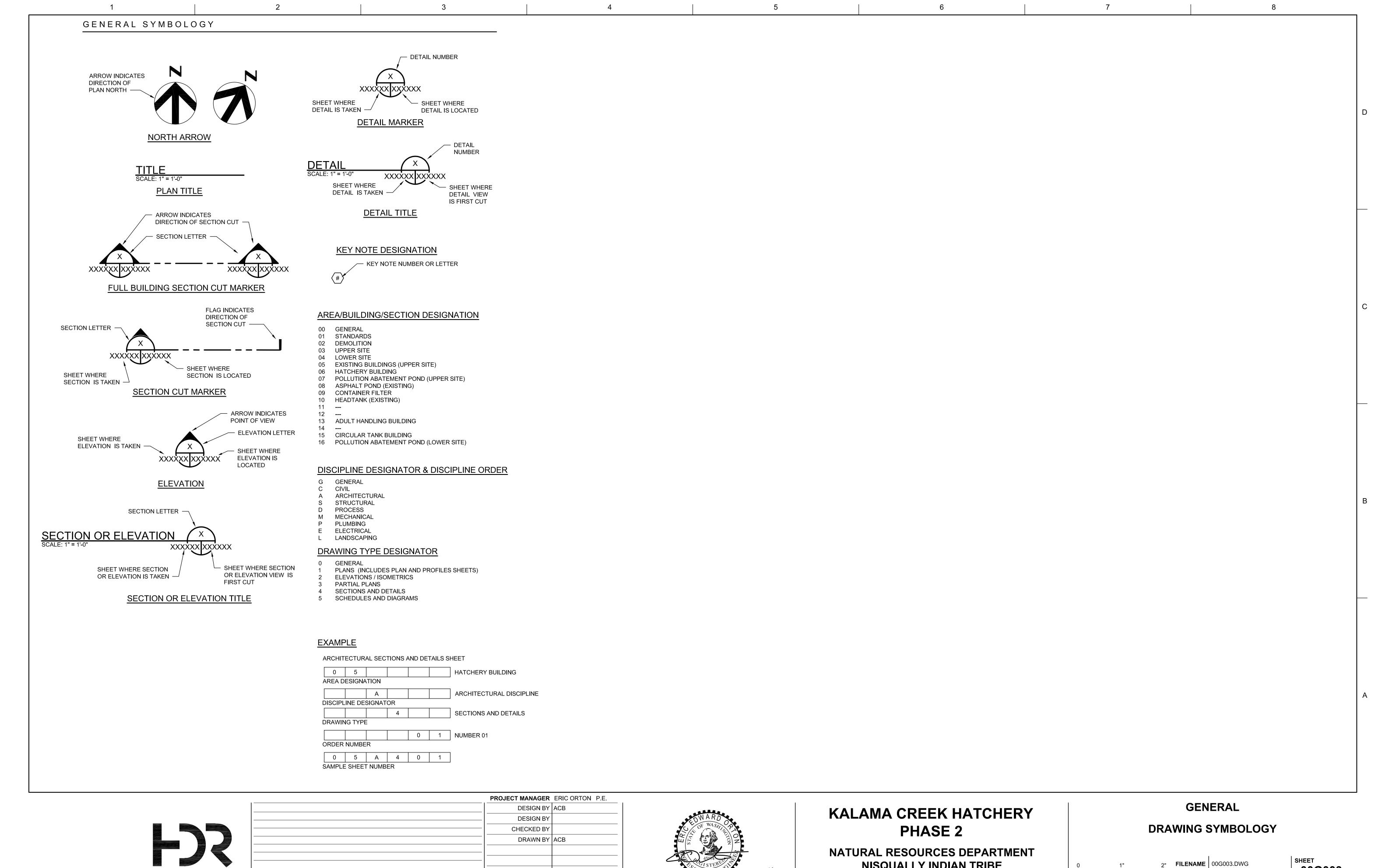
KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT
NISQUALLY INDIAN TRIBE
EDA AWARD NUMBER 07-79-07880





00G002



PROJECT NUMBER | 10176455

DATE

DESCRIPTION

NISQUALLY INDIAN TRIBE

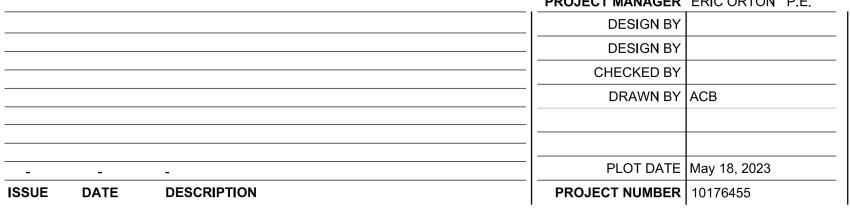
EDA AWARD NUMBER 07-79-07880

FILENAME 00G003.DWG 00G003 SCALE AS NOTED

TOPOGRAPHIC MAP KALAMA CREEK HATCHERY LOWER SITE LEGEND: GRATE FOUND AT BOTTOM OF CREEK BED ELEV. = ±68.2' 12" CP OUTLET (PER HATCHERY EMPLOYEES) UNABLE TO MEASURE INVERT ELEVATION FISH LADDER WITH 4.0' TALL STEEL WALLS AND 1.0' TALL STEEL WALL GATES AT OPENINGS SET REBAR WITH PMX CONTROL CAP THURSTON COUNTY, WASHINGTON SW 1/4 OF SECTION 35, T18N., R1E., W.M. DECIDUOUS TREE - DIA. (IN), DRIP (FT) CONIFER TREE - DIA. (IN), DRIP (FT) POWER JUNCTION BOX POWER PANEL 36" CMP OUTLET IE = 69.77' POWER TRANSFORMER 36" CMP OUTLET PR POWER OUTLET MONITORING WELL BOTTOM WALL/TOP OPENING = 76.16'
BOTTOM OPENING = 71.5' 12" CP INLET IE = 71.35' IRRIGATION VALVE WATER WELL (W) WATER MANHOLE WATER VAULT - I-BEAMS FOR SLIDE POWER GUY ANCHOR I-BEAMS FOR SLIDE

GATES (TYPICAL) -O- POWER POLE O POST UTILITY VAULT IE = 72.38' ---AC ASPHALT CONCRETE CONC. CONCRETE PAVILION ROOF SUPPORTED BY 6-6"X6" WOOD SUPPORT POSTS BURIED POWER T BURIED TELEPHONE 36" CMP OUTLET (APPROX. LOCATION)
 UNDER ±5' OF WATER AND MUD
 UNABLE TO MEASURE INVERT ELEVATION PARAMETRIX CONTROL TABLE CATCH BASIN RIM = 75.36' IE = 74.16' (4" PVC) POINT NO. NORTHING EASTING ELEVATION DESCRIPTION 5714 615203.03 1103589.71 77.75 SET R/CAP 5715 615298.49 1103587.23 75.89 SET R/CAP 5716 615242.19 1103759.29 77.37 SET R/CAP 5717 615134.42 1103699.36 77.45 SET R/CAP - ESTIMATED BORE LOCATION (NO MARKINGS FOUND ONSITE) ELEV. = 81.2' HORIZONTAL DATUM:
HORIZONTAL DATUM FOR THIS SURVEY IS NAD 83(91), WASHINGTON STATE PLANE SOUTH ZONE
COORDINATE SYSTEM, U.S. SURVEY FEET, BASED ON PUBLISHED INFORMATION FROM THURSTON
COUNTY, POINT DESIGNATION 832A. VERTICAL DATUM IS NAVD88 BASED ON PUBLISHED INFORMATION FROM THURSTON COUNTY, POINT DESIGNATION 832A. POINT DESIGNATION = 832A ELEVATION: 271.28 1. THIS MAP CORRECTLY REPRESENTS CONDITIONS AND FEATURES EXISTING AT THE TIME OF THIS SURVEY IN JANUARY, 2020. 3. THIS SURVEY WAS PREPARED BY FIELD TRAVERSE AS PER WAC 332-130-090, PART C. RELATIVE ACCURACY EXCEEDS 1 FOOT IN TEN THOUSAND. ALL SURFACE FEATURES AND INVERT STRUCTURE ELEVATION SHOWN HEREON WERE FIELD LOCATED AND MEASURED BY PARAMETRIX FOR THIS SURVEY. 5. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. SCALE IN FEET CONTOUR INTERVAL = 1' ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY Parametrix
ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES KALAMA CREEK HATCHERY **LOWER SITE NISQUALLY INDIAN TRIBE** DRAWING NO. PROJECT MANAGER ERIC ORTON P.E. **GENERAL DESIGN BY** KALAMA CREEK HATCHERY **DESIGN BY**



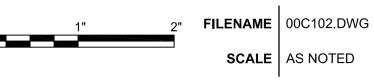




PHASE 2

NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**

EXISTING LOWER SITE TOPOGRAPHIC SURVEY



4" TO 8" QUARRY SPALLS

SUBGRADE REINFORCEMENT
GEOTEXTILE, AS REQUIRED

PROVIDE FULL WIDTH OF INGRESS/EGRESS AREA. MINIMUM 15' WIDTH, IF INGRESS/EGRESS WIDTH

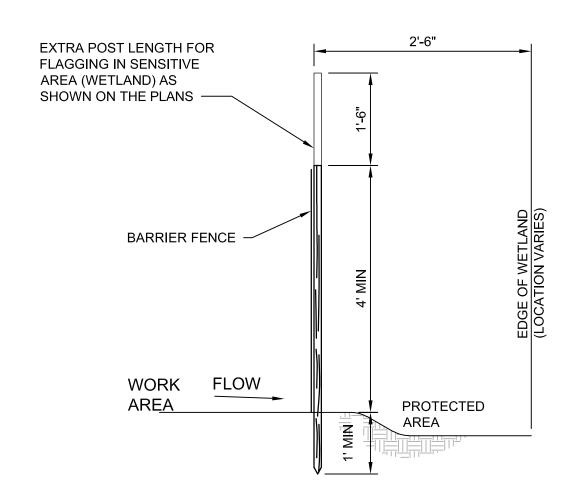
NOTE:

PLACE CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION AND A MINIMUM OF 2" OF CRUSHED ROCK UNDER THE SPALLS, FROM THE EDGE OF THE EXISTING ROADWAY TO THE RADIUS RETURNS, OR AS APPROVED BY WDFW.

1' MIN DEPTH

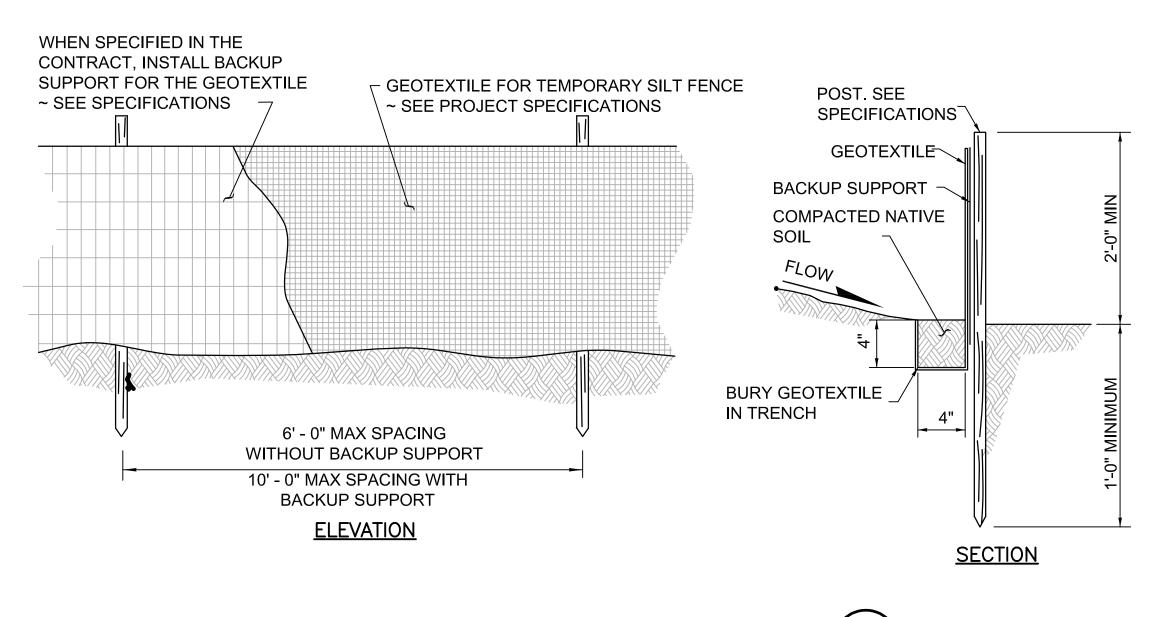
GREATER THAN 15'

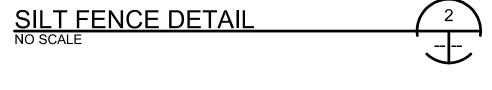
CONSTRUCTION ENTRANCE DETAIL NO SCALE

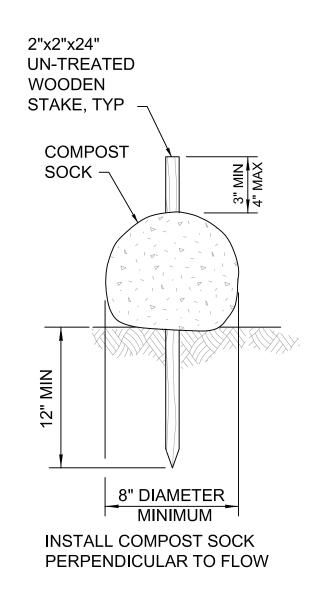


HIGH VISIBILITY FENCE DETAIL

NO SCALE

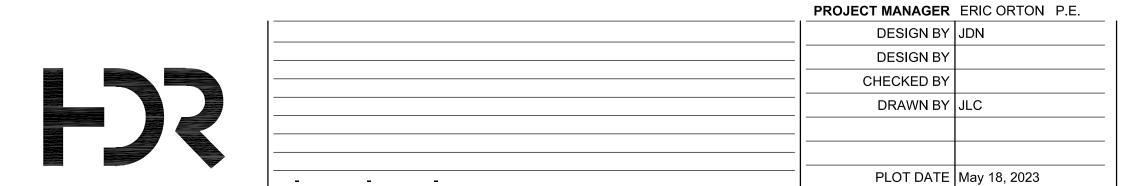






TYPICAL COMPOST SOCK SECTION

NO SCALE



DESCRIPTION

DATE

PROJECT NUMBER 10176455



KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880

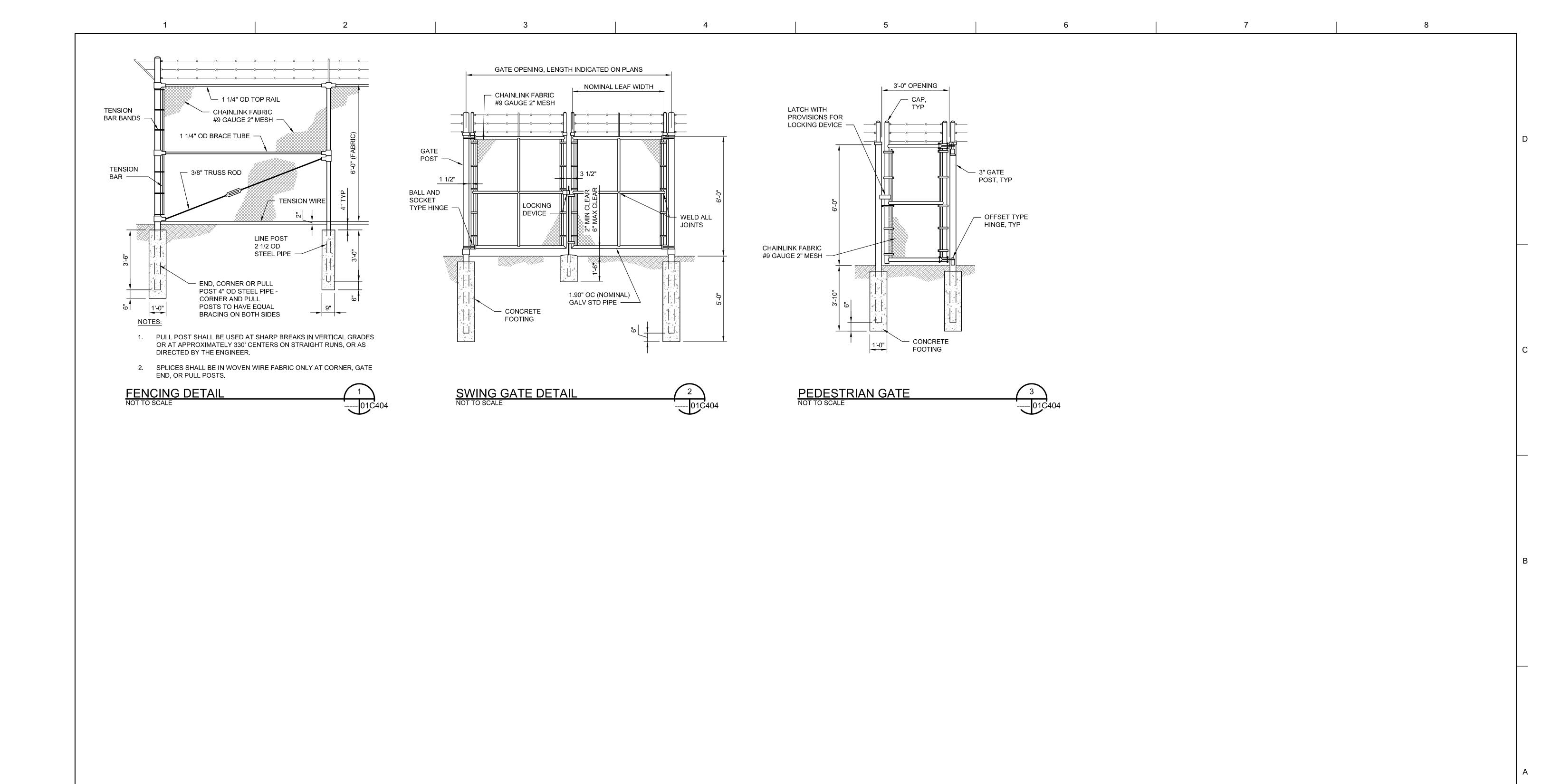
STANDARDS

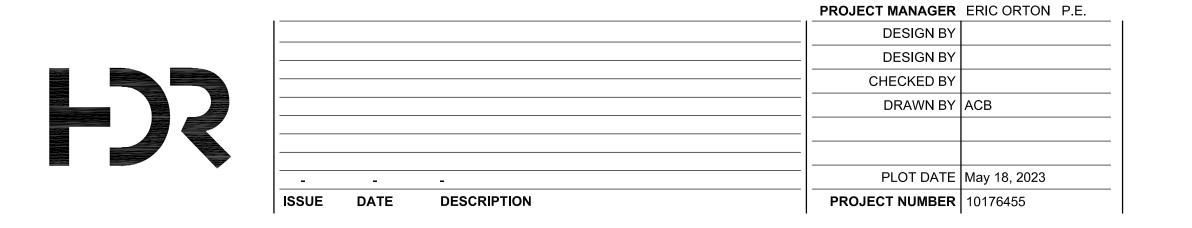
EROSION AND SEDIMENT CONTROL DETAILS



FILENAME 01C402.DWG

SCALE AS NOTED







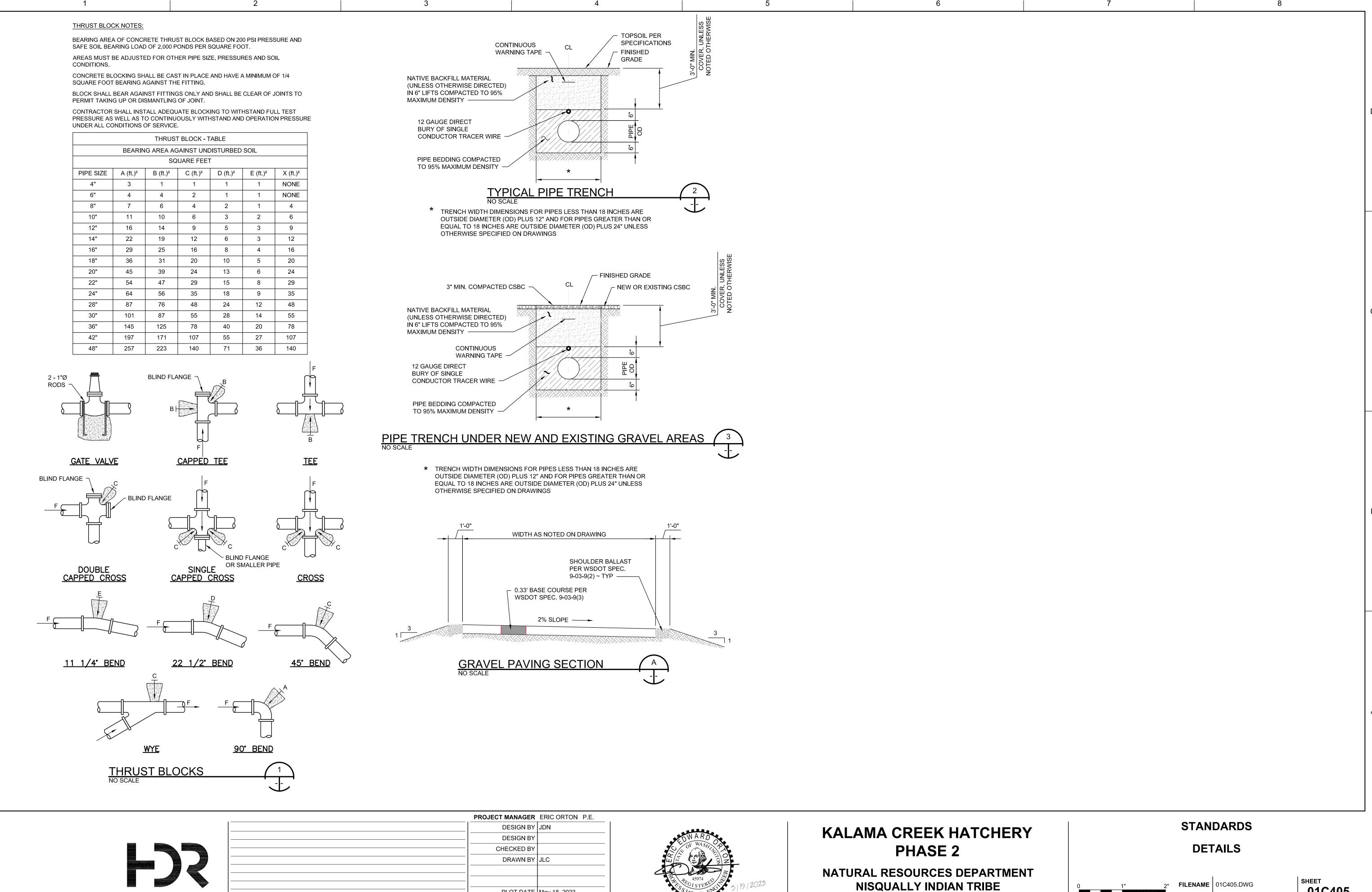
KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880 STANDARDS
FENCING AND
GATE DETAILS

1" 2" FI

FILENAME 01C404.DWG

SCALE AS NOTED



PROJECT NUMBER | 10176455

DATE

DESCRIPTION

01C405

SCALE AS NOTED

DRAWINGS.

CONDITIONS DO NOT MATCH, OR SEEM IN CONFLICT WITH INFORMATION SHOWN ON THE

GENERAL:

- 1. THE DRAWINGS REPRESENT THE FINISHED STRUCTURE(S), NOT THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, BRACING, SHORING, FOR CONSTRUCTION LOADS AND EQUIPMENT, ETC. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTRACTOR'S MEANS AND METHODS, SEQUENCES OF CONSTRUCTION, AND THE SAFETY PROGRAM. OBSERVATION VISITS TO THE SITE BY THE CONTRACTING OFFICER WILL NOT INVOLVE REVIEW OF THESE ITEMS.
- 2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL PROCESS MECHANICAL AND PLUMBING DRAWINGS FOR LOCATION AND SIZE OF OPENINGS, BLOCK OUTS, FLOOR DEPRESSIONS, CURBS, DIMENSIONS, ETC. NOT INDICATED ON THE STRUCTURAL DRAWINGS. THE LOCATION AND SIZE OF MECHANICAL AND ELECTRICAL OPENINGS IN SLABS, WALLS AND DECKS SHALL BE COORDINATED BY THE CONTRACTOR. PROVIDE ALL ADDITIONAL FRAMING OR REINFORCING TO ACCOMMODATE OPENINGS AS REQUIRED BY THE APPLICABLE STANDARD DETAILS, SECTIONS AND NOTES AS SHOWN ON THE STRUCTURAL DRAWINGS.
- 3. CONTRACTOR IS TO ESTABLISH AND VERIFY EMBEDS AND INSERTS FOR ITEMS TO BE INSTALLED BY OTHER TRADES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND CONSTRUCTION.
- 4. CONSTRUCTION MATERIAL AND EQUIPMENT PLACED ON FRAMED CONSTRUCTION SHALL BE SUCH THAT THE LOAD DOES NOT EXCEED THE DESIGN LIVE LOAD OF THE CONSTRUCTIONS. PROVIDE SHORING OF CONSTRUCTIONS WHERE NECESSARY FOR THE LOADS.
- 5. DETAILS AND SECTIONS THAT ARE NOTED AS "TYP" ON DETAIL TITLES ARE TO BE APPLIED TO THE PROJECT CONSTRUCTION AS GENERAL CONSTRUCTION METHODS UNLESS NOTED OTHERWISE. THESE DETAILS ARE NOT CUT AT ALL LOCATIONS THEY OCCUR AND MAY BE NOT BE CUT AT ALL.
- 6. CONTRACTOR SHALL SUBMIT FOR REVIEW ALL EQUIPMENT SIZES, OPERATING WEIGHTS, VIBRATIONAL FORCES, SUPPORTED LOCATIONS, ALONG WITH ANY FLOOR OPENINGS, NOTCHES, AND RECESSED REQUIRED BY SUCH EQUIPMENT. CONCRETE SUPPORT PADS AND / OR FRAMING REQUIRED TO SUPPORT SAID EQUIPMENT SHALL NOT BE FABRICATED AND PLACED UNTIL THE CONCRETE SUPPORT PADS AND / OR FRAMING IS APPROVED TO SUPPORT THE EQUIPMENT.
- 7. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
- 8. SAFETY NOTE:
- A. IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS, AS THEY APPLY TO THIS PROJECT, OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF WASHINGTON LATEST EDITION, AND ALL OSHA REQUIREMENTS.
- B. THE TRIBE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED. CONTRACTOR SHALL PROVIDE ADEQUATE STAYS AND BRACING OF ALL FRAMING UNTIL ALL ELEMENTS OF THE DESIGN HAVE BEEN INCORPORATED INTO THE PROJECT.
- 9. THE CONTRACTOR SHALL NOTIFY THE TRIBE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER PORTION OF THE CONTRACT DOCUMENTS OR EXISTING FIELD CONDITIONS. SUCH NOTIFICATION SHALL BE GIVEN IN DUE TIME SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. IN CASE OF A CONFLICT BETWEEN STRUCTURAL DRAWINGS AND SPECIFICATIONS THE MORE RESTRICTIVE CONDITION SHALL TAKE PRECEDENCE UNLESS WRITTEN APPROVAL HAS BEEN GIVEN FOR THE LEAST RESTRICTIVE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PRIOR TO COMMENCING ANY WORK.
- 10. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT. SHOULD THERE BE ANY QUESTION, CONTACT THE TRIBE PRIOR TO PROCEEDING.
- 11. WHEN CONSTRUCTION ATTACHES TO AN EXISTING BUILDING, A COMPLETE SET OF DRAWINGS OF THE EXISTING BUILDING SHALL BE KEPT ON THE JOB SITE.
- 12. ANY PROPOSED SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE OR DETAILS SHALL BE SUBMITTED TO THE TRIBE FOR REVIEW PRIOR TO USE.
- 13. DO NOT SCALE DRAWINGS. CONTACT THE TRIBE FOR ANY DIMENSIONS NOT SHOWN.
- 14. THE CONTRACTOR SHALL NOTIFY THE TRIBE A MINIMUM OF TWO WORKING DAYS PRIOR TO PROCEEDING WITH THE FOLLOWING WORK:
- A. POURING OF ANY CONCRETE
- B. ERECTION OF ANY STEEL FRAMING
- C. PLACING OF ANY STRUCTURAL SHEATHING AND/OR DECKING
- D. COVERING OF ANY STRUCTURAL SHEATHING

DESIGN CRITERIA:

BUILDING CODE:

1. IBC 2018, ASCE 7-10.

DEAD LOADS:

- 1. ACTUAL WEIGHT OF MATERIALS USED FOR CONSTRUCTION.
- 2. CANOPY COLLATERAL (EQUIPMENT WEIGHT) 35 PSF

FLOOR LIVE LOADS:

1.	OFFICES, RESEARCH ROOMS	50 PSF
2.	STORAGE	125 PSF
3.	CORRIDORS & STAIRS	100 PSF
4.	OUTDOOR CANOPY	60 PSF
5.	MEZZANINE CORRIDORS	80 PSF

ROOF LIVE LOAD:

1. ALL BUILDINGS 20 PSF

GROUND SNOW LOAD:

1. ALL BUILDINGS 15 PSF<400 FT ELEV

WIND DESIGN DATA:

1.	ULTIMATE DESIGN WIND SPEED (3 SECOND GUST):	110 N
2.	NOMINAL DESIGN WIND SPEED	85 M
3.	RISK CATEGORY	I
4.	EXPOSURE CATEGORY:	В
5.	IMPORTANCE FACTOR, IW:	1.0

EARTHQUAKE DESIGN DATA:

1.	RISK CATEGORY	II	
2.	SEISMIC IMPORTANCE FACTOR:	1.0	
3.	SPECTRAL RESPONSE ACCELERATION, SS:	1.327 G	
4.	SPECTRAL RESPONSE ACCELERATION, S1:	0.478 G	
5.	SITE CLASS:	D	
6.	DESIGN SPECTRAL RESPONSE ACCELERATION, SDS:	0.883 G	
7.	DESIGN SPECTRAL RESPONSE ACCELERATION, SD1:	0.581 G	
8.	SEISMIC DESIGN CATEGORY:	D	

SOILS INVESTIGATION:

30	ILS INVESTIGATION.		
1.	SOILS INVESTIGATION BY:	PAN GEO, INC.	
2.	PAN GEO PROJECT NO.	19-384 DATED: JANUARY 2020	
3.	CONVENTIONAL FOOTINGS:	3000 PSF	
4.	MAT FOUNDATION:	2000 PSF	
5.	EQUIVALENT ACTIVE FLUID PRESSURE:	40 PCF	
6.	EQUIVALENT AT REST FLUID PRESSURE:	55 PCF	
7.	EQUIVALENT PASSIVE FLUID PRESSURE:	350 PCF	
8.	COEFFICIENT OF FRICTION:	0.35	

STRUCTURAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

DEFERRED SUBMITTALS:

PRE-ENGINEERED METAL BUILDING (PEMB) STRUCTURES:

- A. HATCHERY BUILDINGB. OUTDOOR REARING STRUCTURE
- C. AERATION TOWER (ROOF STRUCTURE ONLY)

CONCRETE NOTES:

CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 301, AND ACI 318-11.

PROVIDE A 2X4 FORMED CONSTRUCTION JOINT KEYWAY AT ALL HORIZONTAL AND VERTICAL POURED EDGES.

REINFORCING STEEL SHALL BE ASTM A615, GRADE 60. REINFORCING STEEL TO BE WELDED SHALL BE ASTM A 706, GRADE 60.

CONCRETE COVER REQUIREMENTS FOR REINFORCEMENT UNLESS NOTED OTHERWISE ON THE

DETAILS OR SECTIONS:

CONCRETE CAST AND PERMANENTLY EXPOSED TO EARTH: 3"

CONCRETE EXPOSED TO EARTH OR WEATHER: #6 BARS AND LARGER 2"

#5 BARS AND SMALLER 1-1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER: 2"
SLABS 2"

REINFORCING BAR SPLICES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318

-11 AND THE REINFORCING SPLICE LENGTHS SCHEDULE ON THE DRAWINGS.

CAST-IN-PLACE CONCRETE:

ALL REINFORCEMENT FOR CAST-IN-PLACE CONCRETE SHALL BE ACCURATELY PLACED, SUPPORTED, TIED AND SECURED INTO PLACE PRIOR TO PLACING CONCRETE. ALL REBAR DOWELS SHALL BE TIED IN PLACE PRIOR TO CONCRETE PLACEMENT. REBAR DOWELS SHALL NOT BE EMBEDDED AFTER CONCRETE PLACEMENT UNLESS INDICATED ON THE DRAWINGS.

FOUNDATIONS:

- 1. ALL FOUNDATION WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT #19-384 BY PAN GEO, INC., DATED JANUARY 2020.
- 2. FOUNDATIONS SHALL BEAR ON ENGINEERED FILL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- 3. BOTTOMS OF ALL FOUNDATIONS SHALL BE LEVEL. CHANGES IN BOTTOM OF FOUNDATION ELEVATION SHALL BE MADE ACCORDING TO "TYPICAL FOOTING STEP" DETAIL ON THE TYPICAL DETAIL SHEET.
- 4. BUILDING PAD CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE SOILS REPORT. THE EXTENT AND DEPTH OF OVEREXCAVATION AND PLACEMENT OF ENGINEERED FILL SHALL AT A MINIMUM BE AS SHOWN ON THE PLANS. FINAL DEPTH AND EXTENT OF EXCAVATION AND FILL SHALL BE DETERMINED AT TIME OF CONSTRUCTION BY A REPRESENTATIVE OF THE SOILS ENGINEER. FOUNDATION DEPTHS INDICATED ON PLANS ARE FOR ESTIMATING PURPOSES ONLY.
- 5. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT/STRUCTURAL ENGINEER AND SUBJECT TO THE APPROVAL OF THE ENFORCEMENT AGENCY. IN SUCH CASE THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE. STARTER WALLS ARE REQUIRED FOR ALL MASONRY OR CONCRETE WALLS. SEE "MANDATORY MINIMUM FORMWORK" DETAIL ON THE TYPICAL DETAIL SHEET \$1.1.
- 6. NOTIFY THE STRUCTURAL ENGINEER 48 HOURS BEFORE CASTING FOUNDATIONS.

MASONRY:

- 1. MASONRY WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 530-11.
- 2. THE MINIMUM 28-DAY COMPRESSIVE STRENGTH (F'M) OF THE MASONRY SHALL BE 1900 PSI ON THE NET AREA, PROVIDING A DESIGN COMPRESSIVE STRENGTH OF 1500 PSI BY THE ASSUMPTION METHOD.
- 3. THE MINIMUM 28-DAY COMPRESSIVE STRENGTH (F'C) OF MASONRY GROUT SHALL BE 2000
- 4. SEE TYPICAL BOND BEAM INTERSECTION DETAIL FOR MASONRY BOND BEAM DETAILS AND NOTES.
- PROVIDE STANDARD 90 DEGREE HOOKS IN THE TOP BOND BEAM AT ALL VERTICAL WALL REINFORCING.
- 6. SPLICE LENGTHS FOR MASONRY REINFORCEMENT SHALL BE AS SHOWN IN THE MASONRY REINFORCING SPLICE TABLE, UNLESS SHOWN OTHERWISE.
- 7. MASONRY CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL, AND OTHER CONTRACTORS AND BUILD IN OPENINGS FOR THE UTILITIES AND DUCTWORK THAT EXCEED 16 INCHES IN WIDTH. PROVIDE ADDITIONAL REINFORCEMENT AT OPENINGS AS INDICATED. DO NOT CUT REINFORCEMENT. OPENINGS SHALL BE COORDINATED BEFORE CONSTRUCTING WALLS.
- 8. AT NON-LOAD BEARING WALLS, PROVIDE 8" DEEP BEAM FOR OPENINGS 4'-8" AND LESS AND 16' DEEP BOND BEAM FOR OPENINGS GREATER THAN 4'-8" AND LESS THAN 6'-0". CONTACT ENGINEER FOR LARGER OPENINGS.
- 9. ALL STEEL LINTELS 16 INCHES AND DEEPER, WITH SOAP BLOCKS ON SIDES, PROVIDE ADJUSTABLE MASONRY ANCHORS AT 8 INCHES ON CENTER VERTICALLY AND 24 INCHES ON CENTER HORIZONTALLY.

STEEL DECK:

- 1. THE DESIGN, FABRICATION, AND ERECTION OF METAL DECKING SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE SDI SPECIFICATIONS AND THE SDI DIAPHRAGM MANUAL
- 2. STEEL ROOF DECK IS AS SHOWN ON THE PLANS.
- 3. SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS, AND OTHER UTILITIES SHALL NOT BE SUPPORTED FROM THE STEEL DECK.

METAL STAIRWAYS

1. SUPPLIER SHALL PROVIDE COMPLETE DESIGN DRAWINGS AND CALCULATIONS FOR ALL METAL STAIRWAYS. STAIRWAYS SHALL BE DESIGNED FOR DEAD LOAD + 100 PSF LIVE LOAD, AND SEISMIC LOADS. SUPPLIER SHALL DESIGN, SUPPLY, AND INSTALL ALL CONNECTION MATERIALS WHICH SHALL INCLUDE BUT ARE NOT NECESSARILY LIMITED TO EMBEDDED ITEMS, BEARING PLATES, STIFFENERS, DIAGONAL STRUTS, SUPPORT ANGLES, CHANNELS AND TUBES. ALL LOADING CONDITIONS RESULTING IN ECCENTRICITIES OR TORSION TO BEAMS AND/OR COLUMNS SHALL BE RESOLVED BY THE INSTALLATION OF STIFFENERS AND DIAGONAL STRUTS, DESIGNED, SUPPLIED AND INSTALLED BY THE

SUPPLIER. SEISMIC FORCES SHALL BE ACCOUNTED FOR AND BRACED BACK TO THE MAIN STRUCTURE. SEE ARCHITECTURAL DRAWINGS FOR STAIRWAY DIMENSIONS AND DETAILS. SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED BY A CIVIL ENGINEER, REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED, FOR REVIEW BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER. SEE SPECIFICATIONS FOR ADDITIONAL DESIGN CRITERIA.

STRUCTURAL STEEL:

THE SPECIFICATIONS.

- FABRICATION, ERECTION, AND MATERIALS SHALL CONFORM TO THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE CBC, LATEST EDITIONS.
- 2. STRUCTURAL STEEL DESIGN PROPERTIES:
 WIDE FLANGE AND TEE SHAPES ASTM A992
 FY = 50 KSI
 ANGLES, CHANNELS AND PLATES ASTM A 36
 STEEL PIPE ASTM A53, GRADE B
 COLD-FORMED HOLLOW STRUCTURAL SECTIONS, ASTM A 500, GRADE B
 FY = 36 KSI
 BOLTS ASTM A325N
 ANCHOR RODS ASTM F1554
 FY = 36 KSI
- 18 + GAGE FY = 33 KSI
 3. ALL STRUCTURAL STEEL SHALL RECEIVE A MINIMUM OF ONE SHOP COAT OF RED PRIMER DO NOT PAINT AREAS TO BE FIELD WELDED, TO RECEIVE SLIP-CRITICAL HIGH STRENGTH

FY = 50 KSI

LIGHT GAGE STEEL STUDS/JOIST 12 TO 16 GAGE

4. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND LEFT IN PLACE UNTIL OTHER MEANS ARE PROVIDED TO ADEQUATELY BRACE THE STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL BASE PLATE AND SUPPORT CONDITIONS DURING ERECTION AND BRACING AS REQUIRED. SEE AISC AND OSHA REQUIREMENTS.

BOLTS, OR TO BE EMBEDDED IN CONCRETE. PROVIDE ADDITIONAL PAINTING AS NOTED IN

- 5. PLACE NON-SHRINK GROUT UNDER ALL BASE PLATES BEFORE ADDING VERTICAL LOAD.
- 6. ALL WELDS AND WELDING PROCEDURES SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PROVISIONS OF AISC AND AWS WELDING PROCEDURES AND CODES OUTLINED IN THE SPECIFICATION. ALL WELDS SHALL BE MADE WITH E-70XX ELECTRODES UNLESS NOTED OTHERWISE.
- 7. WHEN FILLET WELDS SIZES ARE NOT INDICATED, PROVIDE MINIMUM WELD SIZE IN ACCORDANCE WITH AISC SPECIFICATIONS, TABLE J2.4. OR 3/16", WHICHEVER IS GREATER.
- 8. ALL GROOVE WELDS INDICATED ON THE PLANS AND SECTIONS SHALL BE COMPLETE JOINT PENETRATION WELDS (CJP) UNLESS SPECIFICALLY INDICATED TO BE PARTIAL PENETRATION WELDS.
- 9. DIMENSIONS TO CENTERLINE OF COLUMNS AND BEAMS, TOP SURFACES OF BEAMS AND TUBES AND BACKS OF CHANNELS AND ANGLES UNLESS NOTED OTHERWISE.
- 10. ALL FIELD BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER A325N BOLTS, UNLESS NOTED OTHERWISE. ALL FIELD BOLTED CONNECTIONS SHALL BE SNUG TIGHTENED UNLESS INDICATED AS PRETENSIONED OR SLIP CRITICAL. PRETENSIONED AND SLIP CRITICAL CONNECTIONS SHALL BE TIGHTENED USING DIRECT TENSION INDICATORS. INSTALL HIGH STRENGTH BOLTS ACCORDING TO RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS" FOR THE TYPE OF JOINT SPECIFIED.

TESTS AND INSPECTIONS:

1. TESTS AND INSPECTIONS SHALL BE PROVIDED BY A QUALIFIED TESTING AGENCY AS REQUIRED BELOW AND SHALL CONFORM TO THE REQUIREMENTS OF THE THE 2018 IBC. TESTING AND INSPECTION RECORDS SHALL BE KEPT FOR ALL STRUCTURAL CONCRETE.

☐ FILL COMPACTION
☐ REINFORCING STEEL

□ REINFORCING STEEL□ CONCRETE□ STRUCTURAL STEEL

☐ MASONRY☐ GROUT & MORTAR☐ EPOXY & EXPANSION ANCHORS

INSPECTIONS:

■ FOOTING EXCAVATION

□ PILE/PIER INSTALLATION

■ REINFORCEMENT PLACEMENT

■ CONCRETE PLACEMENT

□ SHOP WELDING

■ FIELD WELDING

□ HIGH STRENGTH BOLTING

☐ MASONRY PLACEMENT & GROUTING☐ EPOXY & EXPANSION ANCHORS

STANDARDS

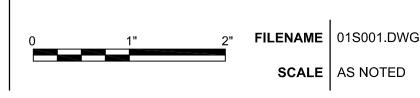
STRUCTURAL

NOTES

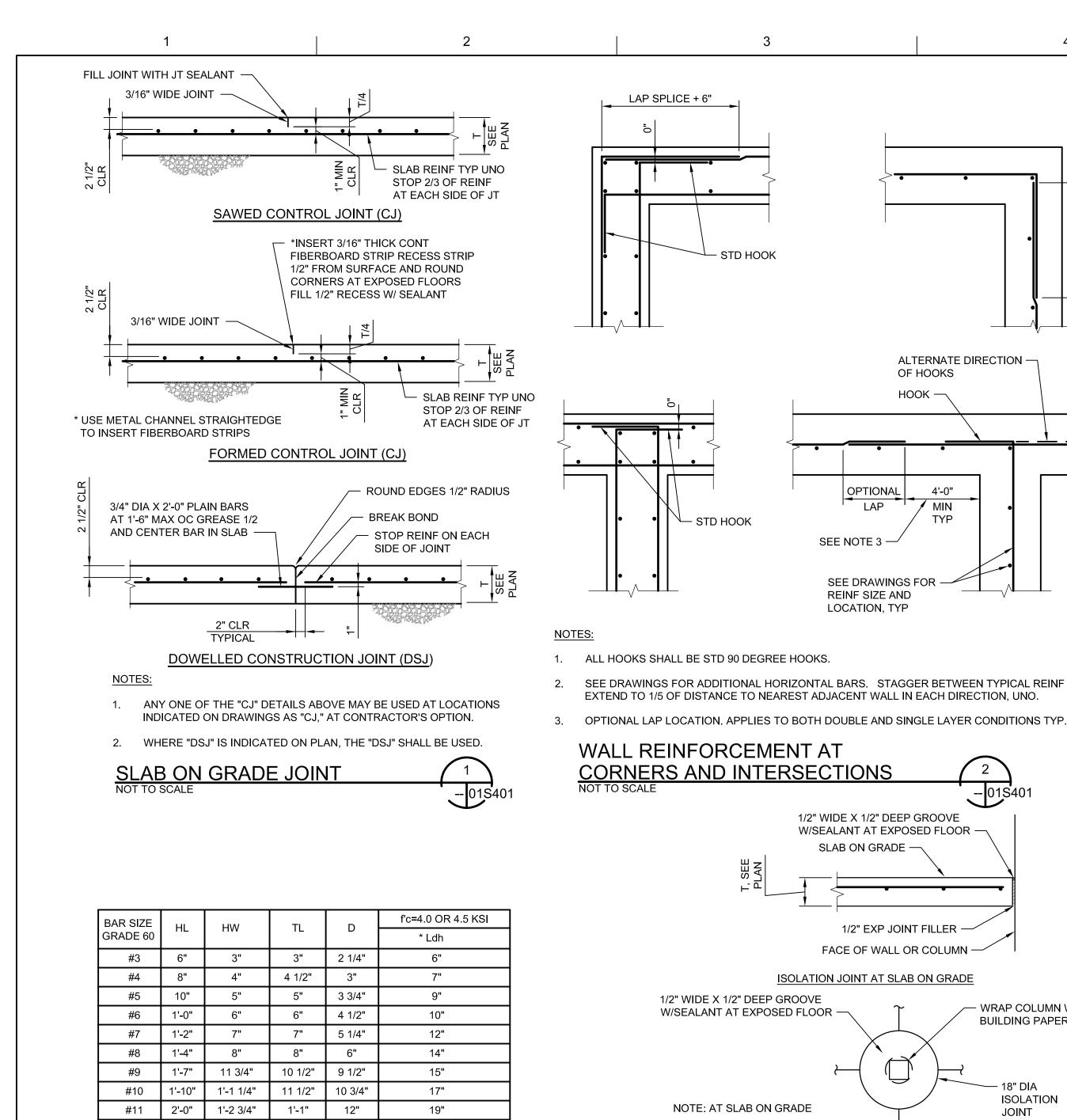


KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880

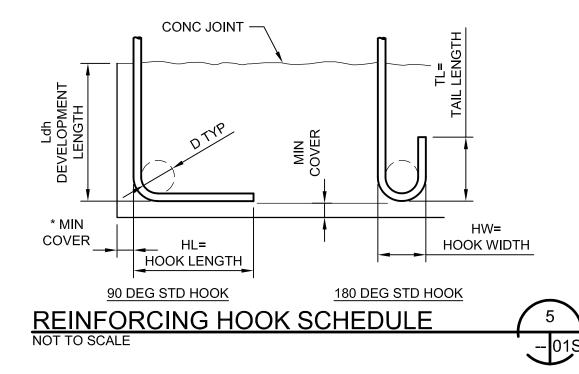


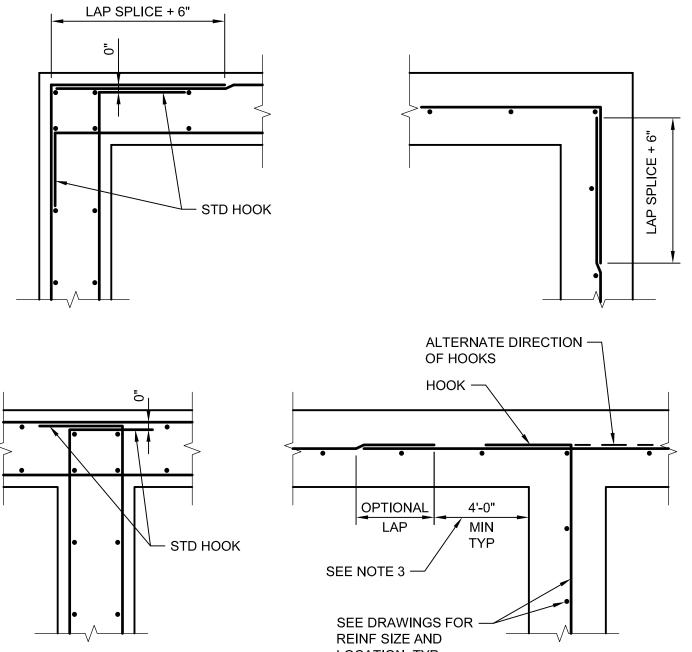
SHEET 01S001



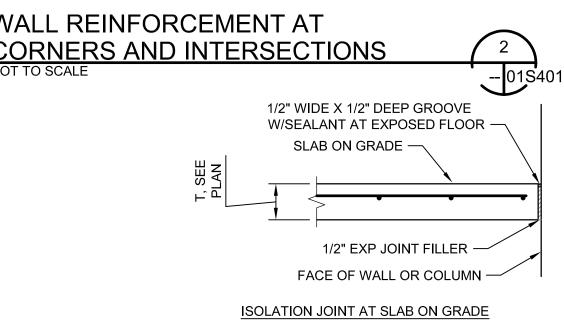
BAR SIZE		1.1547	_,	_	f'c=4.0 OR 4.5 KSI
GRADE 60	HL	HW	TL D		* Ldh
#3	6"	3"	3"	2 1/4"	6"
#4	8"	4"	4 1/2"	3"	7"
#5	10"	5"	5"	3 3/4"	9"
#6	1'-0"	6"	6"	4 1/2"	10"
#7	1'-2"	7"	7"	5 1/4"	12"
#8	1'-4"	8"	8"	6"	14"
#9	1'-7"	11 3/4"	10 1/2"	9 1/2"	15"
#10	1'-10"	1'-1 1/4"	11 1/2"	10 3/4"	17"
#11	2'-0"	1'-2 3/4"	1'-1"	12"	19"

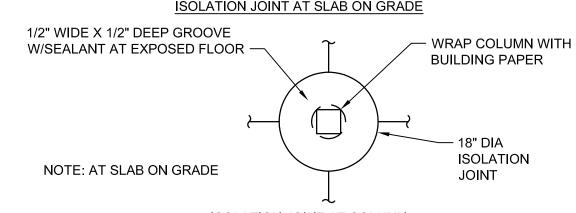
* COMPLYING WITH MINIMUM COVER REQUIREMENTS OF ACI 318, 12.5.3. OTHERWISE Ldh MUST BE RE-CALCULATED.

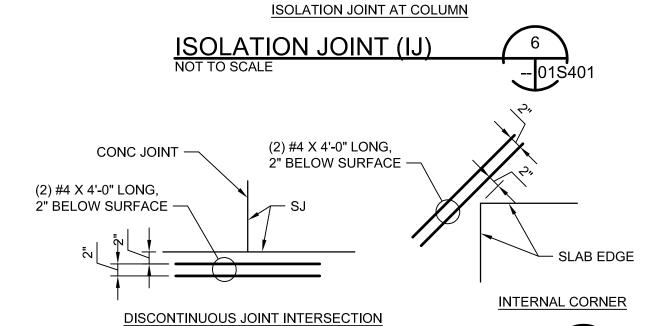




- SEE DRAWINGS FOR ADDITIONAL HORIZONTAL BARS. STAGGER BETWEEN TYPICAL REINF SPACING,







PROJECT NUMBER | 10176455

PROJECT MANAGER	ERIC ORTON P.E.
DESIGN BY	JLH
DESIGN BY	
 CHECKED BY	
DRAWN BY	ACB
DI OT DATE	May 19, 2022

DESCRIPTION

DATE

ADDITIONAL SLAB REINFORCING

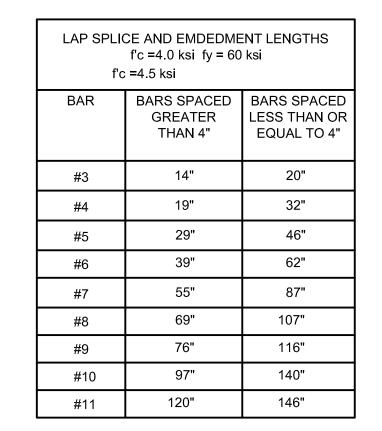


-- 01S401

SYM ABOUT SYM ABOUT (2) #5 X 4'-0" EACH FACE, — € OPENING € OPENING TYP (4) LOCATIONS L/2 + LAP LENGTH TYP D/2 +ADDITIONAL REINF _AP LENGTH SEE NOTE 1 TYP N SYM ABOUT _ € OPENING CIRCULAR OPENING DETAIL RECTANGULAR OPENING DETAIL

- 1. 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.
- 2. 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.
- 3. TYPICAL WALL OR SLAB REINFORCING NOT SHOWN FOR CLARITY. TERMINATE TYPICAL REINFORCING 2" CLEAR TO OPENING.
- 4. OPENINGS 12" OR LESS IN SLABS AND OPENINGS 18" OR LESS IN WALLS, NO EXTRA REBARS ARE REQUIRED UNLESS SHOWN OTHERWISE. TYPICAL REINFORCING SHALL BE RESPACED (NOT CUT) TO ALLOW FOR OPENINGS TO BE MADE.
- 5. UNLESS SHOWN OTHERWISE ON DRAWINGS, PROVIDE EXTRA REINFORCING AROUND OPENINGS AS SHOWN AND INDICATED ABOVE.
- 6. PROVIDE ADDITIONAL DOWELS PER NOTE 1 ABOVE FOR ALL OPENINGS NEAR THE FLOOR SLAB, BASE SLAB, OR CORNERS.

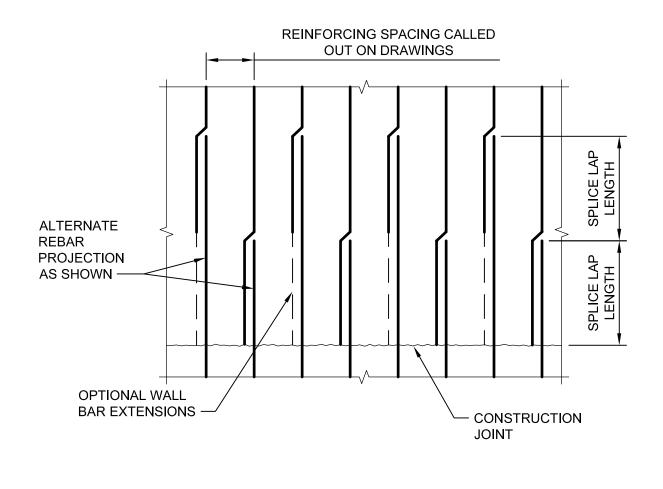




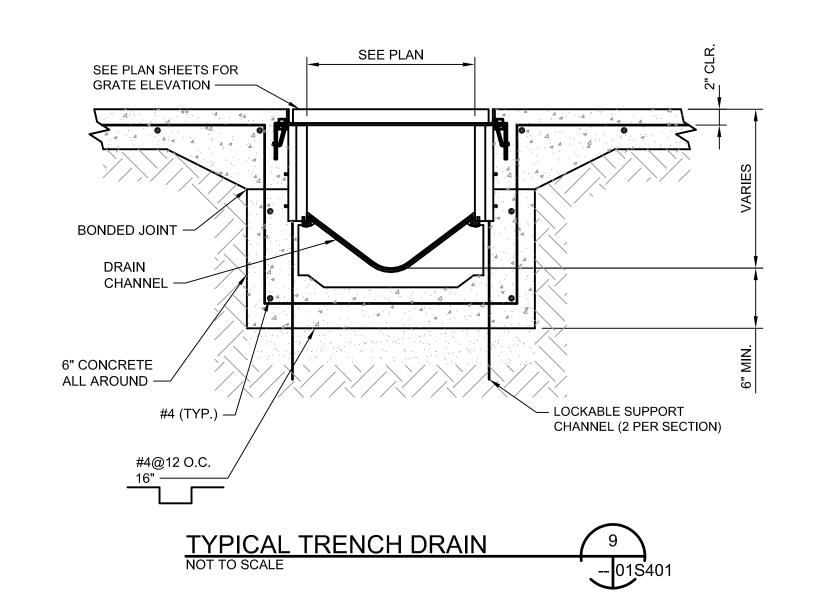
- 1. PROVIDE MINIMUM LAP SPLICE LENGTHS AND EMBEDMENTS PER TABLE UNLESS NOTED OTHERWISE. EMBEDMENT LENGTH EQUALS THE LAP SPLICE LENGTH UNLESS OTHERWISE NOTED.
- 2. BAR SPACING AT LAP SPLICE IS THE MINIMUM CLEAR DISTANCE BETWEEN LAPPED BARS PLUS ONE BAR DIAMETER.
- 3. ALL SPLICES TO BE CONTACT SPLICES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

CONCRETE REINFORCING LAP AND EMBEDMENT SCHEDULE









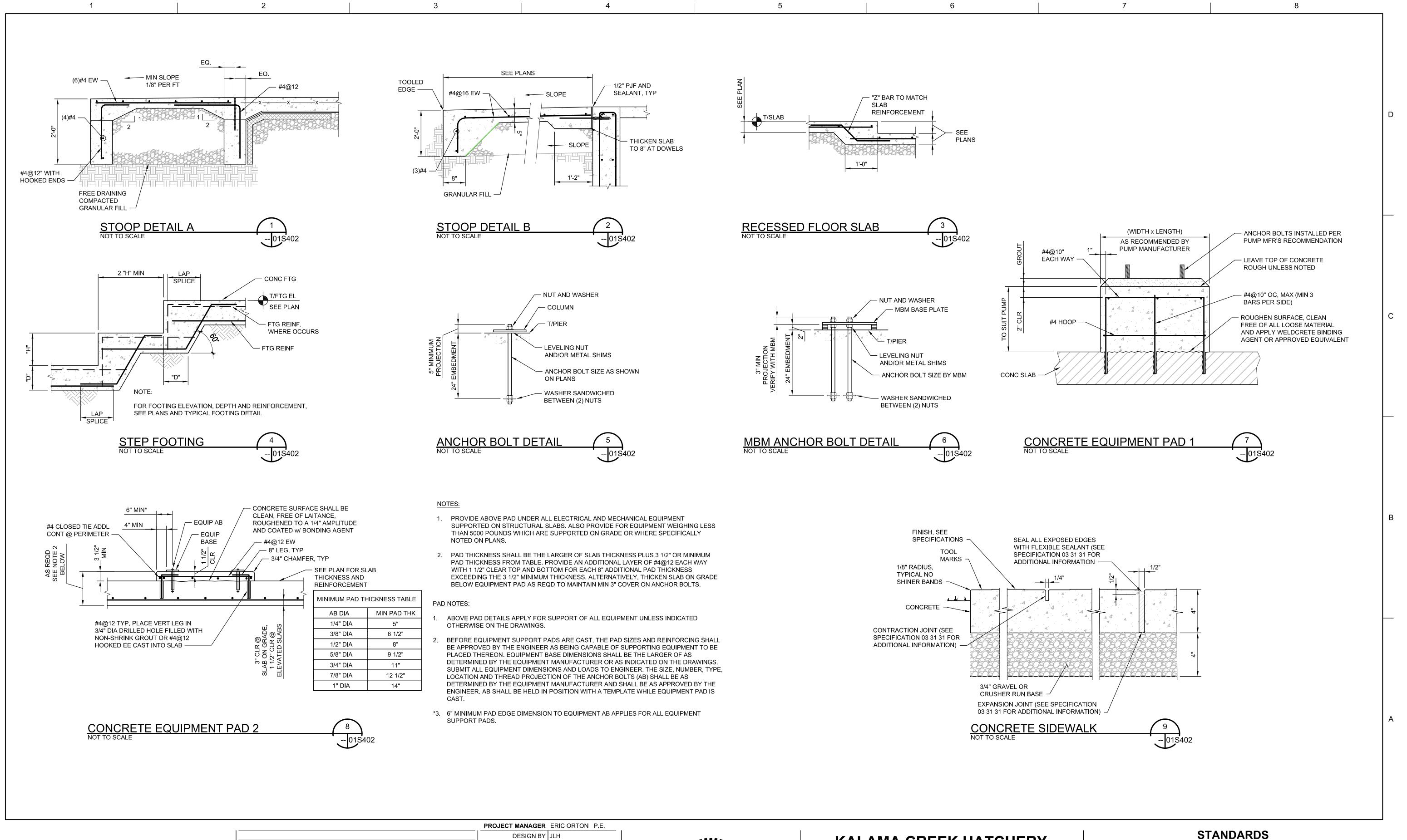
KALAMA CREEK HATCHERY PHASE 2

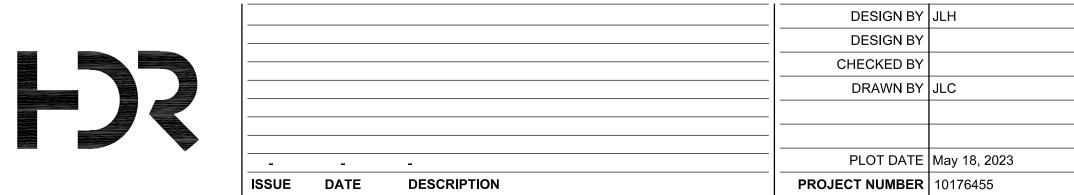
NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**

STANDARDS STRUCTURAL DETAILS 1



01S401





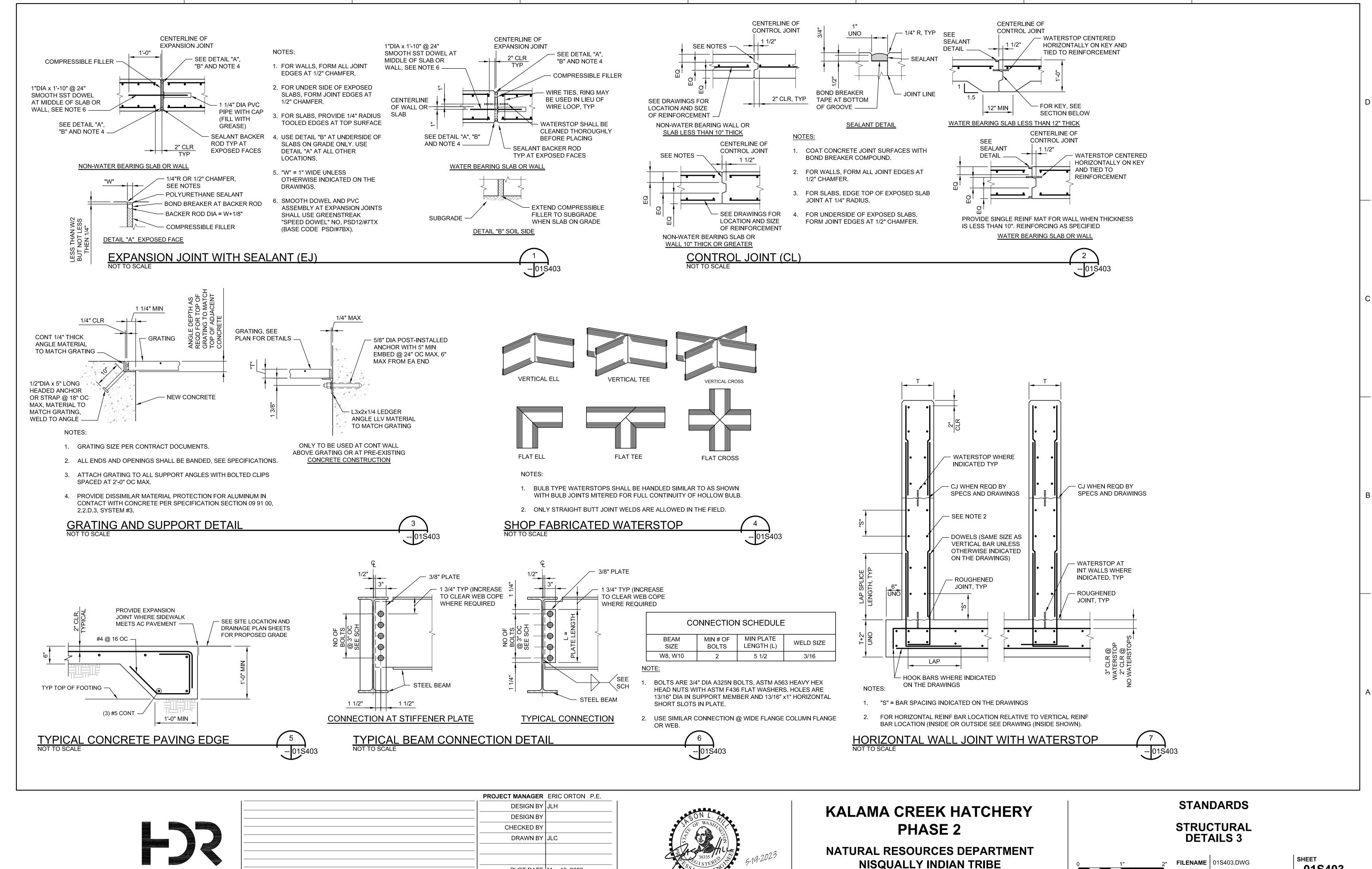


KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT
NISQUALLY INDIAN TRIBE
EDA AWARD NUMBER 07-79-07880



01S402

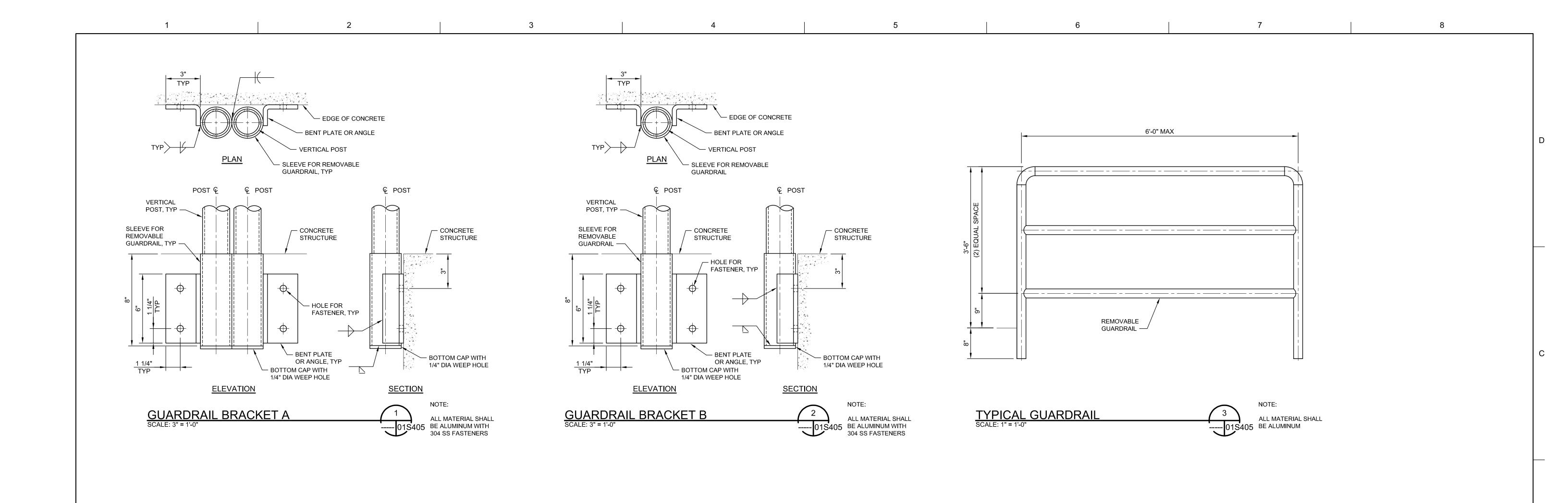


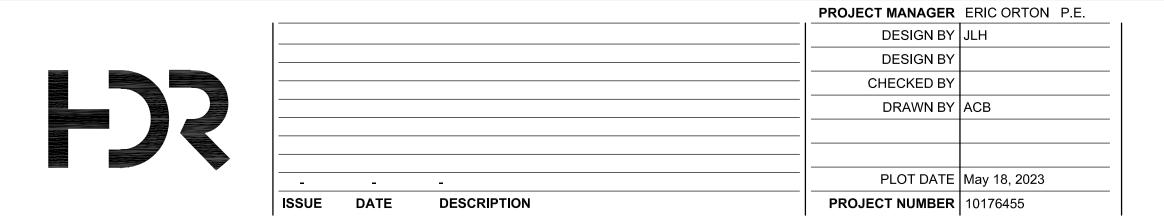
PROJECT NUMBER | 10176455

DATE

DESCRIPTION

FILENAME 01S403.DWG 01S403 SCALE | AS NOTED







KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880



SCALE AS NOTED

01S405

	FLOOR DRAIN
0	CLEANOUT TO FLOOR
Θ	CLEANOUT TO GRADE

FLOOR SINK

0

PRESSURE REDUCING VALVE

CONCRETE VALVE BOX

HOSE BIBB/WALL HYDRANT

├── WALL CLEANOUT

PIPE WYED UP (TEED ON SUPPLIES)

→ → PIPING TURNED UP

PIPING TURNED DOWN

ELBOW DOWN TO ELBOW

ELBOW DOWN TO TEE

ELBOW DOWN TO TEE

TEE DOWN TO ELBOW

PIPE BREAK

45° ELBOW (PLAN) 90° ELBOW (PLAN)

GATE VALVE

BUTTERFLY VALVE

CHECK VALVE

WHEEL HANDLED GLOBE VALVE (UNLESS OTHERWISE NOTED)

DIAPHRAGM VALVE

YARD HYDRANT
(CONNECTION SIZE AS NOTED ON PLANS)

CONCENTRIC REDUCER
(ECCENTRIC REDUCER
WHERE NOTED)
CAP OR PLUG

→ 45° BEND (VERTICAL)

→ M → FLOW METER

MATERIALS IN PLAN / SECTION

NEW GRAVEL CSBC PER WSDOT SPEC 9-03-9(3)

ABBREVIATIONS

ABC ABV AD ALUM AFF APPROX AV AWWA	ABOVE CEILING ABOVE AREA DRAIN, ACCESS DOOR ALUMINUM ABOVE FINISHED FLOOR APPROXIMATE ANGLE VALVE AMERICAN WATER WORKS ASSOCIATION	HB HDPE HD HW HORIZ HP HWP	HOSE BIBB HIGH DENSITY POLYETHYLENE HOT DIPPED HOT WATER HORIZONTAL HORSEPOWER HOT WATER PUMP
BFF BFV BGV	BELOW FINISHED FLOOR BUTTERFLY VALVE BURIED GATE VALVE	ID IE IHX	INSIDE DIAMETER INVERT ELEVATION INCUBATION HEAT EXCHANGER
BHP BLDG BTU	BRAKE HORSEPOWER BUILDING BRITISH THERMAL UNIT	KW KWH	KILOWATT KILOWATT HOUR
BTUH BTWN BV	BRITISH THERMAL UNIT PER HOUR BETWEEN BALL VALVE	LPG LWT	LIQUEFIED PETROLEUM GAS LEAVING WATER TEMPERATURE
CA CI CB CD CFH	COMPRESSED AIR CAST IRON CATCH BASIN CONDENSATE DRAIN CUBIC FEET PER HOUR	MAV MCA MFR MH MIN MJ	MANUAL AIR VENT MINIMUM CIRCUIT AMPACITY MANUFACTURER MANHOLE MINIMUM MECHANICAL JOINT
CFM CO CONC COORD COMB CPVC	CUBIC FEET PER MINUTE CLEANOUT (FLOOR OR YARD) CONCRETE COORDINATE COMBINATION CHLORINATED POLYVINYL CHLORIDE	NC NO NOM NRS	NORMALLY CLOSED NORMALLY OPEN NOMINAL NON-RISING STEM
CSBC CU CV CW	CRUSHED SURFACING BASE COURSE COPPER CHECK VALVE COLD WATER	OA OC OD OH OS&Y	OVERALL ON CENTER OUTSIDE DIAMETER OVERHEAD OUTSIDE STEM AND YOKE VALVE
DEMO DI DIM DEG DIA DISCH DRN	DEMOLISH DUCTILE IRON DIMENSION DEGREE DIAMETER DISCHARGE DRAIN	PD PG PRV PSF PSI PV PVC	PRESSURE DROP PRESSURE GAUGE PRESSURE REDUCING VALVE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PLUG VALVE POLYVINYL CHLORIDE
EFF EG EL EWT	EFFLUENT EXISTING GRADE ELBOW ENTER WATER TEMPERATURE	R RCP	RADIUS RE-CIRCULATING PUMP REINFORCED CONCRETE PIPE
FC FD FG FI FLA	FLEXIBLE CONNECTION, FORWARD CURVED FLOOR DRAIN FINISHED GRADE FLOW INDICATOR FULL LOAD AMPERAGE	REQD RD RPM RSR RV	REQUIRED ROOF DRAIN REVOLUTIONS PER MINUTE RISER RELIEF VALVE
FOT FOB FREQ FRP FS	FLAT ON TOP FLAT ON BOTTOM FREQUENCY FIBERGLASS REINFORCED PLASTIC FLOOR SINK, FLOW SWITCH, FORMALIN SUPPLY FOOT, FEET	S SCH SD SF SG SHT SIM	SINK SCHEDULE SOIL DROP, STORM DRAIN SQUARE FEET SLIDE GATE SHEET SIMILAR
GAL	FITTING GAGE GALVANIZED	SQ SSAS SST, SS SV	SQUARE SUBSURFACE SOIL ABSORPTION SYSTEM STAINLESS STEEL SHUTOFF VALVE

PROCESS EQUIPMENT IDENTIFICATION SYMBOLOGY

CON-X CONDENSER OF SPLIT INCUBATION CHILLING SYSTEM

EVA-X EVAPORATOR OF SPLIT INCUBATION CHILLING SYSTEM

EVP-X PUMP FOR EVAPORATOR LOOP

CIP-X CHILLED INCUBATION PUMP

BTF-1 BUFFER TANK AND HYDRAULIC SEPARATOR - 48" DIA, 700 GALLON

XX-FMXX FLOWMETER

NUMBER
LOCATION

UV-X ULTRAVIOLET STERILIZER PACKAGE

UTB-1 UTILITY WATER BOOSTER PUMP STATION

CFL-1 CONTAINER FILTER

PROCESS PIPING IDENTIFICATION SYMBOLOGY

PIPE SERVICE, SEE LEGEND
DIAMETER IN INCHES

PIPE SERVICE LEGEND

CA COMPRESSED AIR

CH CHILLED WATER

D DRAIN

F FORMALIN

OF OVERFLOW

C RECYCLE WATER

REUSE WATER

SS SANITARY SEWER

SW SURFACE WATER

W WATER SUPPLY MIXED

WD WASTE DRAIN

WW WELL WATER

| PROJECT MANAGER | ERIC ORTON | P.E. | | DESIGN BY | TT | | DESIGN BY | CHECKED BY | | CHECKED BY | DRAWN BY | AB | | D

GALVANIZED

GALLONS PER HOUR
GALLONS PER MINUTE

GATE VALVE, GLOBE VALVE

GALV



TDH

TEMP

THK

TSS

TYP

UG

UV

VΒ

VCP

VERT

VR

WH

YCO

YΗ

UNO

THRU

TOTAL DYNAMIC HEAD

TOTAL SUSPENDED SOLIDS

UNLESS NOTED OTHERWISE

VALVE BOX, VACUUM BREAKER

TEMPERATURE

UNDERGROUND

VITRIFIED CLAY PIPE

VENT THROUGH ROOF

WORKING PRESSURE

ULTRAVIOLET

THROUGH

TYPICAL

VENT

WITH

WASTE

VERTICAL

VENT RISER

WALL HYDRANT

YARD CLEANOUT YARD HYDRANT

THICK, THICKNESS

KALAMA CREEK HATCHERY PHASE 2

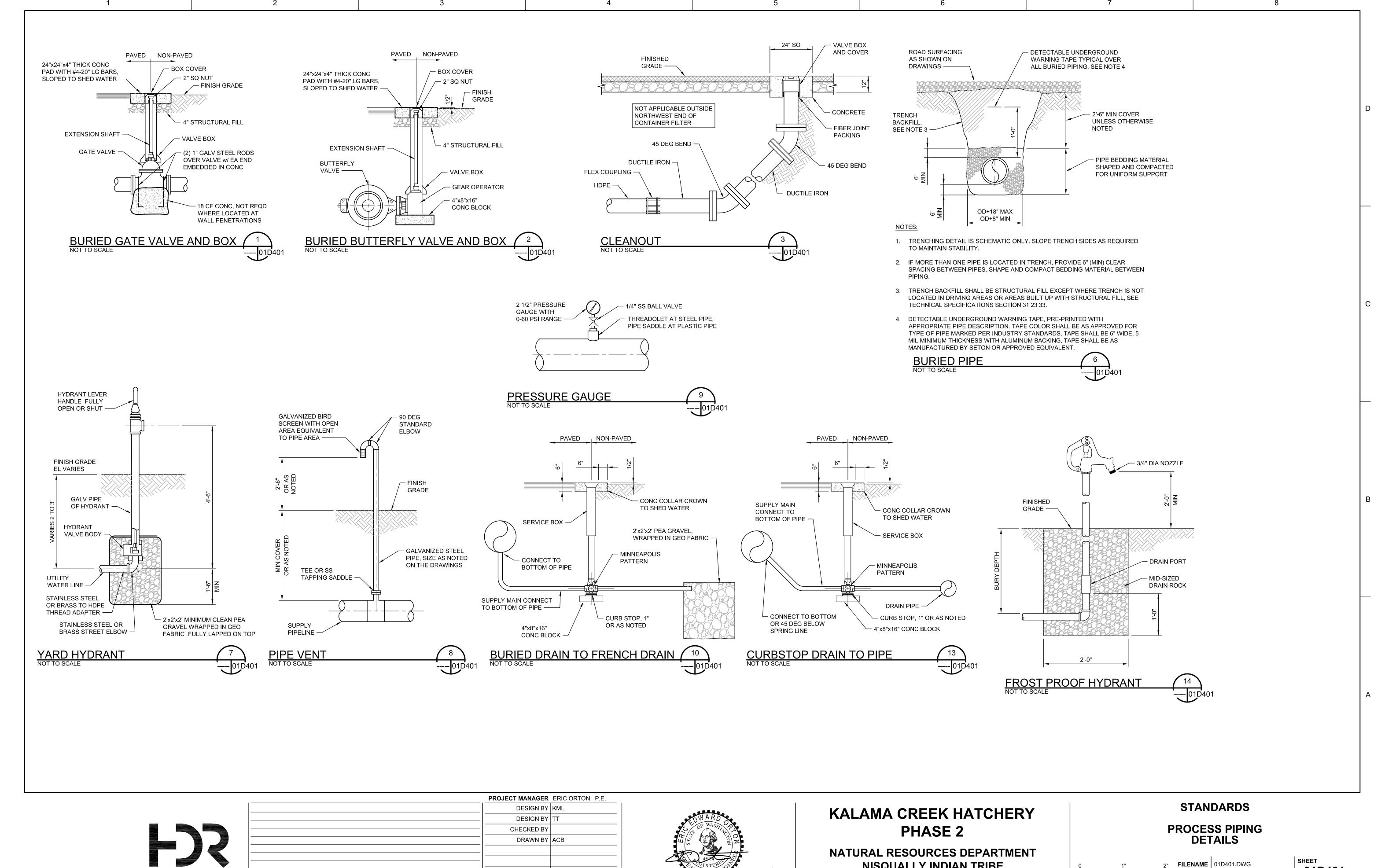
NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880 **STANDARDS**

PROCESS
SYMBOLS AND ABBREVIATIONS



FILENAME 01D001.DWG

SCALE AS NOTED



PROJECT NUMBER | 10176455

DATE

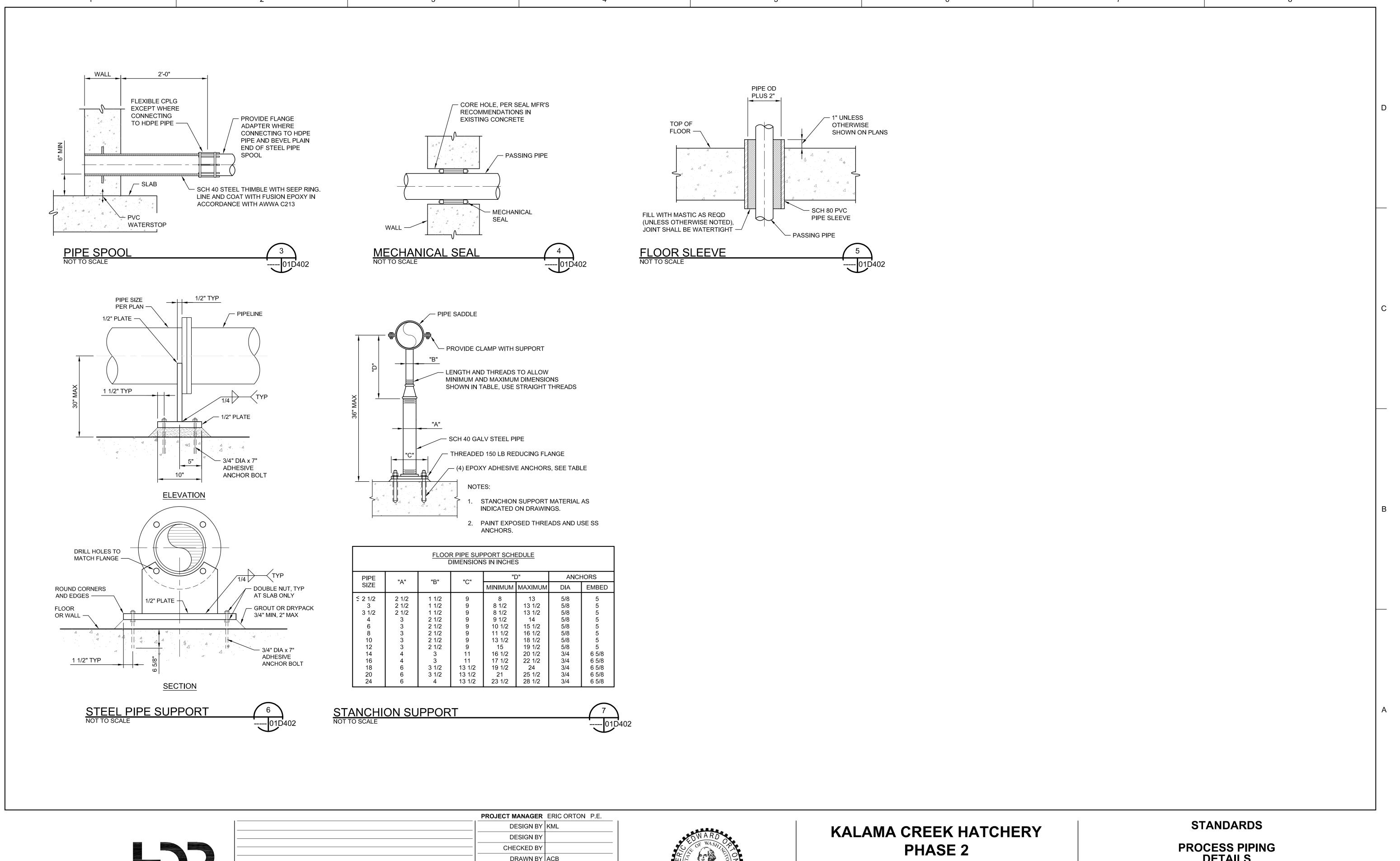
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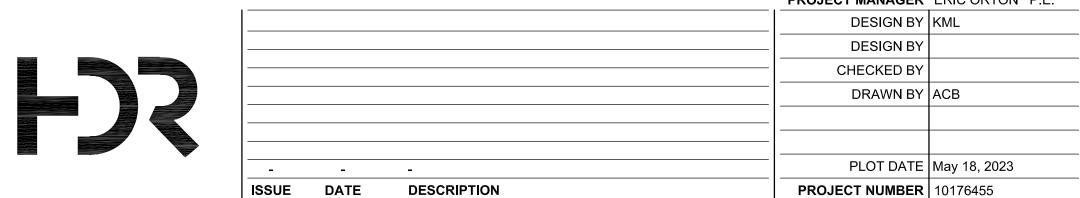
NISQUALLY INDIAN TRIBE

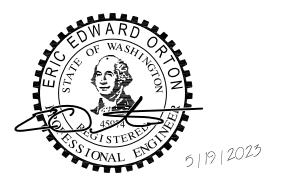
EDA AWARD NUMBER 07-79-07880

01D401

SCALE AS NOTED







NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**



FILENAME 01D402.DWG

SCALE AS NOTED

	SUBMERSIBLE PUMP SCHEDULE											
NUM BER	NAME	LOCATION	SERVICE	TYPE	INLET CONNECTION SIZE (IN)	OUTLET CONNECTION (IN)	FLOW (gpm)	TDH (ft)	HP	WEIGHT (LBS)	VOLTAGE/ PHASE	REMARKS
15-P01	CIRC. TANK BLDG. RECIRCULATION PUMP	NE CORNER OF CIRCULAR TANK BUILDING	RC	SUBMERSIBLE END SUCTION; VFD	N /A	8	1,600	30	15	710	460/3	PUMP PART OF PACKAGE LIFT STATION 15-LS01; SEE LIFT STATION SPECIFICATIONS
15-P02	CIRC. TANK BLDG. RECIRCULATION PUMP	NE CORNER OF CIRCULAR TANK BUILDING	RC	SUBMERSIBLE END SUCTION; VFD	N /A	8	1,600	30	15	710	460/3	PUMP PART OF PACKAGE LIFT STATION 15-LS01; SEE LIFT STATION SPECIFICATIONS
16-P01	POLLUTION A BATEMENT POND LIFT PUMP	SE CORNER OF POLLUTION ABATEMENT POND	WD	SUBMERSIBLE END SUCTION	N/A	4	200	20	2	230	460/3	

FLOW METER SCHEDULE									
TAG NO.	LOCATION	SERVICE	TYPE OF METER	MAXIMUM FLOW (GPM)	DIAMETER (INCHES)	NOTES			
15-FM01	LOWER SITE; GAS MANAGEMENT TOWER 1	RECIRCULATION WATER	MAG	2500	8	REMOTE MOUNTED TRANSMITTER			
15-FM02	LOWER SITE; GAS MANAGEMENT TOWER 2	RECIRCULATION WATER	MAG	2500	8	REMOTE MOUNTED TRANSMITTER			
15-FM03	SUPPLY LIFT STATION	SUPPLY WATER	MAG	2500	10	INTEGRAL TRANSMITTER			

					PROC	CESS PIPE SO	CHEDULE		
TION	FUNCTION	PIPING MATERIALS (GROUP NO) (UNLESS OTHERWISE NOTED ON DRAWINGS)					_	T REQUIREMENTS E NOTE 2)	NOTES AND REMARKS
FLUID ABBREVIATION		EXPOSED PIPE	BURIED PIPE	UNDER SLAB PIPE	SUBMERGED	TEST PRESSURE (PSI)	TEST MEDIUM	ALLOWABLE LEAKAGE (SEE NOTE 1)	
CA	COMPRESSED AIR	2, 3	2, 3	2, 3	-	175	AIR	(A)	
OF	OVERFLOW	5	9, 10	9, 10	-	NOTE 4	WATER	(A) FOR PIPES TYPE 5 (B) FOR PIPE TYPES 9 & 10	
RC	RECIRCULATION WATER	4, 6	6, 9, 10	6, 9, 10	-	20	WATER	(A) FOR PIPE TYPE 4 & 6 (B) FOR PIPE TYPES 9 & 10	
RU	REUSE WATER	4, 6	5, 9, 10	5, 9, 10	-	40	WATER	(A) FOR PIPES TYPE 4, 5 & 6 (B) FOR PIPE TYPES 9 & 10	
SW	SURFACE WATER (SPRING OR CREEK)	4, 6	6, 9, 10	6, 9, 10	-	20	WATER	(A) FOR PIPE TYPE 4 & 6 (B) FOR PIPE TYPES 9 & 10	INSULATE WHERE NOTED ON THE DRAWINGS. EXPOSI PIPE & FITTINGS 10" & GREATER SHALL BE GROUP 4 UNLESS OTHERWISE NOTED.
UW	UTILITY WATER	6	5	5	-	90	WATER	(A)	
V	VENT (PROCESS)	2	2	2	-	NOTE 4	WATER	(A)	
WD D	WASTE DRAIN DRAIN	5, 15	7, 9	5, 15	-	NOTE 4	WATER	(A) FOR PIPE TYPE 5 & 15 (B) FOR PIPE TYPE 7 & 9	
vwv	WELL WATER	6	6	6	-	225	WATER	(A) FOR PIPE TYPE 6	
СН	CHILLED WATER	6	6	6	-	20	WATER	(A)	INSULATE PIPING & BUFFER TANK PER SCHEDULE IN SPECIFICATION SECTION 40 42 00
DW	DOMESTIC WATER	2, 6	6	6	-	150	WATER	(A)	PIPE GROUP 2 USED WHERE INDICATED ON DRAWING:

PROCESS PIPING MATERIAL SCHEDULE								
GROUP NO.	PIPE	JOINTS, FITTINGS, COATINGS AND LININGS						
2	SCHEDULE 40 GALVANIZED STEEL	THREADED						
3	STEEL; BLACK, SCHEDULE 40, ASTM A53	BUTT FUSION OR ELECTROFUSION						
4	STEEL; AWWA C200, 3/8" WALL	COATED AND LINED PER SPECIFICATIONS. WELDED, FLANGED OR RESTRAINED MECHANICAL JOINTS AND FITTINGS.						
5	PVC; SCHEDULE 40, ASTM D1785	POLYVINYL CHLORIDE SCHEDULE 40. NORMAL IMPACT, SOCKET SOLV WELDED JOINTS EXPOSED, GASKETED BURIED						
6	PVC; SCHEDULE 80, ASTM D1785	POLYVINYL CHLORIDE SCHEDULE 80. NORMAL IMPACT, SOCKET SOLV WELDED JOINTS						
7	PVC SEWER PIPE, ASTM D3034 AND ASTM F679, SDR 35	BELL AND SPIGOT FITTINGS						
9	AWWA C900 PVC PIPE, DR25 OR THICKER WALL	DIP FITTINGS, RESTRAINED JOINTS WITHIN 20 FEET OF FITTINGS AND V 50 FEET OF DEAD ENDS AND PIPE REDUCERS						
10	AWWA C900 PVC PIPE, DR32.5 OR THICKER WALL	DIP FITTINGS, RESTRAINED JOINTS WITHIN 20 FEET OF FITTINGS AND V 50 FEET OF DEAD ENDS AND PIPE REDUCERS						
11	DUCTILE IRON PIPE, CLASS 150	COATED AND LINED PER SPECIFICATIONS. FLANGED OR RESTRAINED MECHANICAL JOINTS AND FITTINGS.						
12	SCHEDULE 10, TYPE 304 STAINLESS STEEL	WELEDED OR FLANGED JOINTS AND FITTINGS. PROVIDE DIELECTRIC FLANGE KITS WHERE CONNECTING TO DIS-SIMILAR METALS						
13	RIGID COPPER ASTM B88, TYPE L, HARD TEMPERED	WROUGHT COPPER OR CAST BRONZE						
15	PVC DWV, ASTM D2665 SCHEDULE 40	SOCKETWELD						

NOTE 5:
NOTE 4: STATIC WATER TEST WITH SURFACE 10-FEET ABOVE HIGH POINT OF PIPE
NOTE 3: FOR PIPE LINING AND COATING SEE SPECIFICATIONS.
NOTE 2: FOR FIELD TEST PROCEDURES AND ADDITIONAL TEST REQUIREMENTS, SEE SPECIFCATIONS
 (C) PIPES SO DESIGNATED SHALL NOT SHOW LEAKAGE OF MORE THAN 0.15 GALLON PER HOUR PER INCH OF DIAMETER PER 100 FEET OF PI (D) SEE SPECIFICATIONS FOR TESTING OF HDPE PIPE

NOTES

ALTHOUGH SEVERAL PIPE MATERIAL GROUPS MIGHT BE LISTED ON THIS SHEET FOR A GIVEN FLUID SERVICE, CONTRACTORS SHALL PROVIDE ONLY THE PIPE MATERIAL GROUP SHOWN ON THE DRAWINGS AND SPECIFIED FOR THAT SERVICE. WHERE MORE THAN ONE PIPE GROUP ARE SHOWN THE CONTRACTOR HAS THE OPTION TO USE ANY OF THE PIPING TYPES INDICATED.

(A) PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE(B) PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE FOR UNBURIED PIPE AND NOT MORE THAN 0.02 GALLONS PER

INCH OF DIAMETER PER 100 FEET OF BURIED PIPE

NOTE 1: LEAKAGE ALLOWANCE IS AS FOLLOWS:

	NON-SUBMERSIBLE PUMPS SCHEDULE (SEE NOTES)										
DESIGNATION	APPLICATION	LOCATION	TYPE	PERFORMANCE	INLET & OUTLET	MAX HP	VOLT-PH	RPM	MAKER & MODEL	CONTROL	MOTOR REQURIED
UTB-3	UTILITY WATER BOOSTER PUMP	CIRCULAR TANK BUILDING	MULTI-STAGE IN-LINE CENTRIFUGAL	50 GPM @ 150' TDH	2"	3	480/3	3600	GRUNDFOS CRE 10-4 OR EQUAL	PACKAGED	INVERTER DUTY
15-P03	SUPPLY WATER TO CIRC. TANK BLDG.	SW CORNER OF CIRC. TANK BLDG.	VERTICALLY SUSPENDED CENTRIFUGAL PUMP	1600 GPM @ 30 TDH	10" OUT	20	480/3	1800	GOULDS VIT-DITM 12FDLC OR EQUAL	PRESSURE TRANS W/ REMOTE VFD	INVERTER DUTY
15-P04	SUPPLY WATER TO CIRC. TANK BLDG.	SW CORNER OF CIRC. TANK BLDG.	VERTICALLY SUSPENDED CENTRIFUGAL PUMP	1600 GPM @ 30 TDH	10" OUT	20	480/3	1800	GOULDS VIT-DITM 12FDLC OR EQUAL	PRESSURE TRANS W/ REMOTE VFD	INVERTER DUTY

NOTES

1. PUMPS 15-P03 & 15-P04 ARE VFD CONTROLED PRESSURE MAINTAINING PUMPS PART OF PACKAGED LIFT STATION. SEE SHEET 15D403 AND SPECIFICATION 43 24 05.

	ULTRA VIOLET STERILIZER SCHEDULE										
TAG	FLOW	UV TRANSMITTANCE AT 253.7nm	DOSE AT END OF LAMP LIFE	SITE VOLTAGE	MAX WATTS	CONNECTION SIZE MAX	MAX LAMPS	MAX HEAD LOSS	MAKE AND MODEL VESSEL DRAWN	OTHER MAKE AND MODEL	
15-UV01	1,600 GPM	90%	40,000 mW sec/cm	240/1	2,640	10" FLANGE (NOTE 2)	6	21"	ULTRAAQUA MR6-350SS OR EQUAL		

NOTES

- 1. VESSEL SHALL HAVE OUTLET HORIZONTAL NORTH AND INLET AXIAL HORIZONTAL EAST.
- 2. VESSEL SHALL HAVE HORIZONTAL INLET AND OUTLET NORTH.



KALAMA CREEK HATCHERY PHASE 2

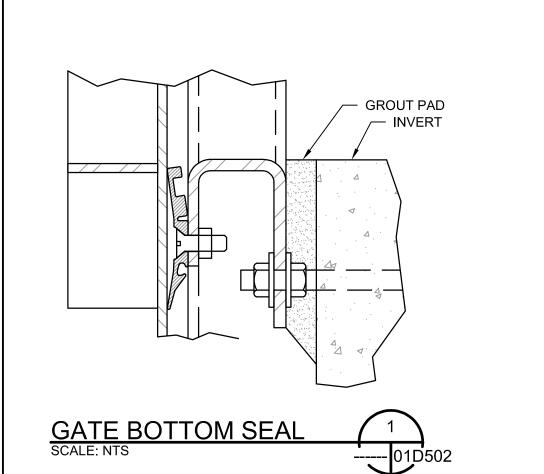
NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880 **STANDARDS**

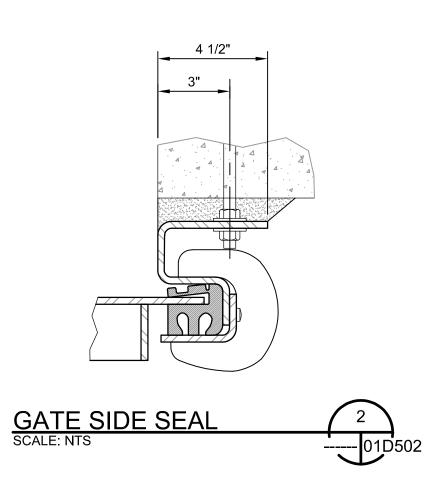
PROCESS PIPE AND EQUIPMENT SCHEDULES

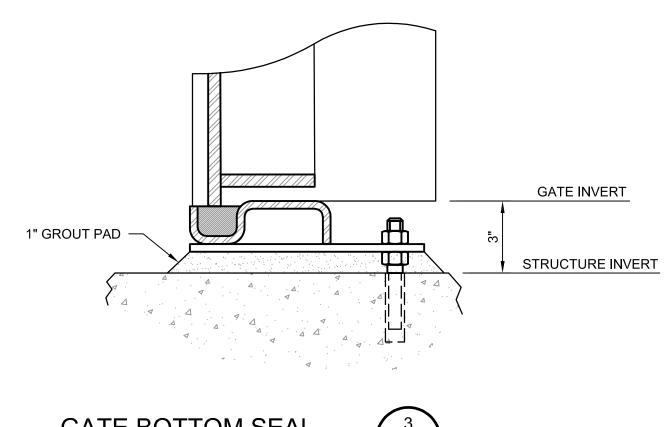


FILENAME 01D501.DWG

SCALE AS NOTED









	SLIDE GATE SCHEDULE										
TAG	STRUCTURE	DETAIL	NOMINAL SIZE	OPERATOR TYPE AND ELEVATION	DESIGN HEAD PRESSURE	SIDE SEAL	BOTTOM SEAL	REMARKS			
04G-01	LOWER SITE CONC POND	A / 04D401	36' x 36"	HANDWHEEL, EL 81.36	5.5' UNSEATING HEAD	2	3	RISING STEM			
04G-02	LOWER SITE CONC POND	1/04D401	12" DIA	2" NUT, EL 79.00	7.0' SEATING HEAD	NA	NA	CANAL GATE, SPIGOT BACK, WATERMAN C-10 OR EQUIV			
16G-01	LOWER SITE PA POND	C / 16D401	12" x 36"	HANDWHEEL, EL 82.50	4.0' SEATING HEAD	2	1	RISING STEM			

NOTES:

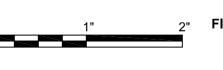
- 1. BOLT PATTERN OF GATE FRAMES SHALL BE AT LEAST 2" CLEAR OF PIPE TO STRUCTURE ADAPTERS OR WALL PIPES WHEN ANCHOR BOLTS ARE EPOXY AND 3" WHEN ANCHOR BOLTS ARE MECHANICAL.
- 2. ALL GATES SHALL BE SELF CONTAINED AND FLAT BACK, GROUTED PER MANUFACTURERS RECOMMENDATIONS.



KALAMA CREEK HATCHERY PHASE 2

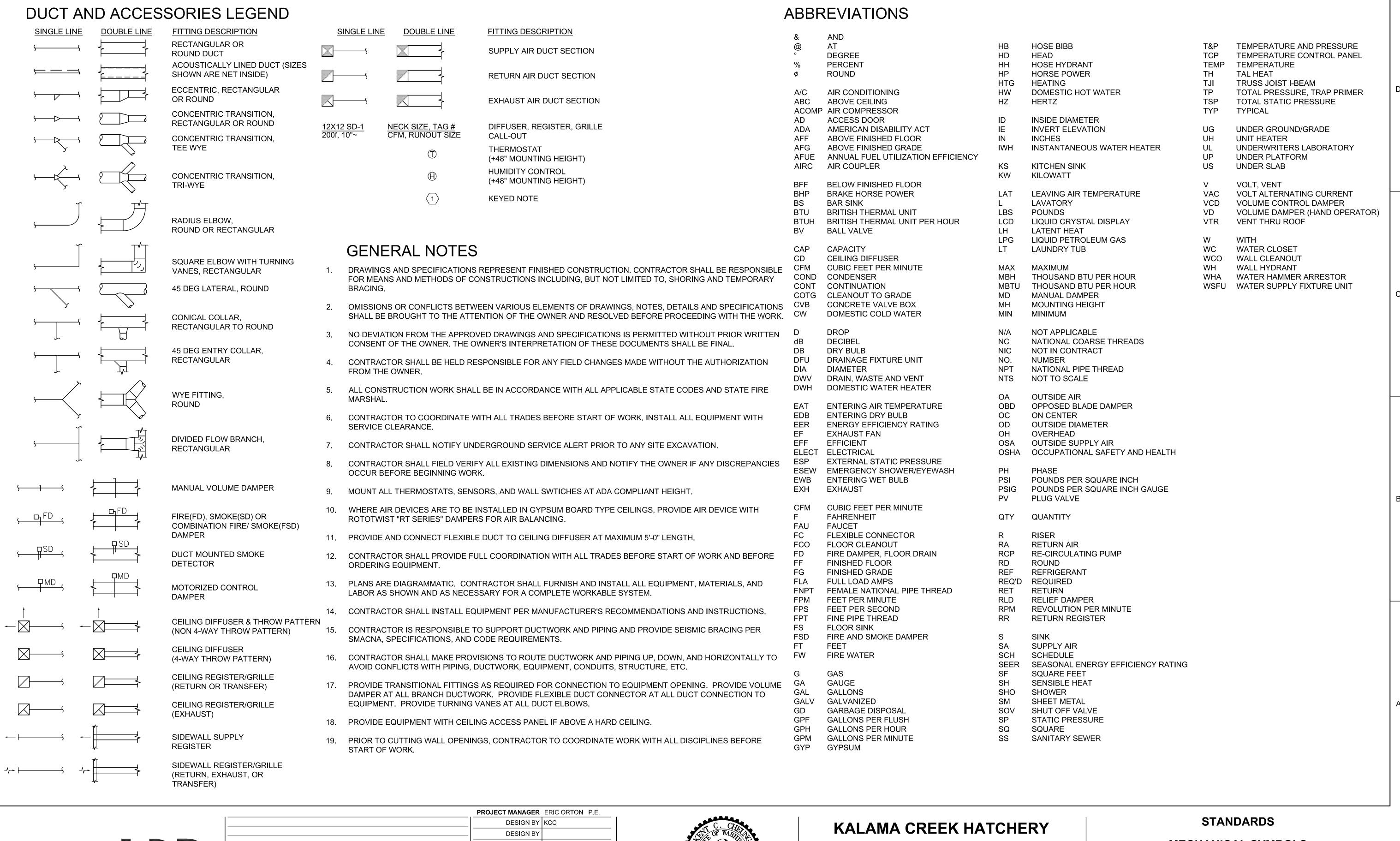
NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880 **STANDARDS**

GATE SCHEDULE AND DETAILS



FILENAME 01D502.DWG

SCALE AS NOTED









PHASE 2

NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**

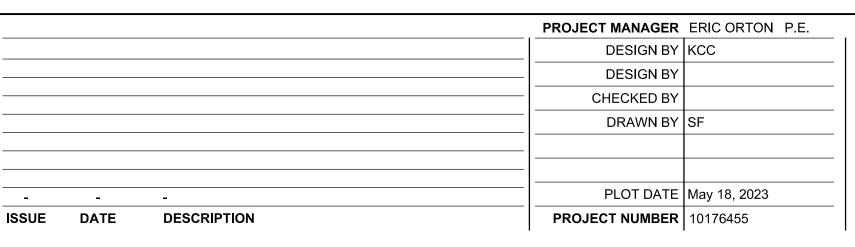


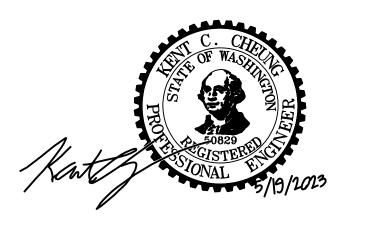


01M001

ELECTRIC RADIANT HEATER SCHEDULE ELECTRICAL **UNIT TAG** BASIS OF DESIGN AREA SERVED WATTS NOTES NO. MAKE/MODEL V/HZ/PH INDECCO INVIZATHERM THIN SERIES ERH-1 ADULT HANDLING 2,071 240/60/1 1 THRU 4 STT-U36-2660V INDECCO INVIZATHERM THIN SERIES **ADULT HANDLING** 240/60/1 1 THRU 4 STT-U36-2660V INDECCO INVIZATHERM THIN SERIES ERH-3 2,071 ADULT HANDLING 240/60/1 1 THRU 4 STT-U36-2660V INDECCO INVIZATHERM THIN SERIES ERH-4 ADULT HANDLING 240/60/1 1 THRU 4 STT-U36-2660V NOTES: 1) PROVIDE 120V 28 AMP IN WALL TIMER. 2) PROVIDE UNIT WITH A REAR MOUNTED JUNCTION BOX AND MOUNTING BRACKETS.

3) BLACK STAIN. SHIPPING WEIGHT: 21 LBS.4) DIMENSIONS: 41.5" (L) x 8.85" (W) x 3.8" (D)





KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880 GENERAL

MECHANICAL SCHEDULES II

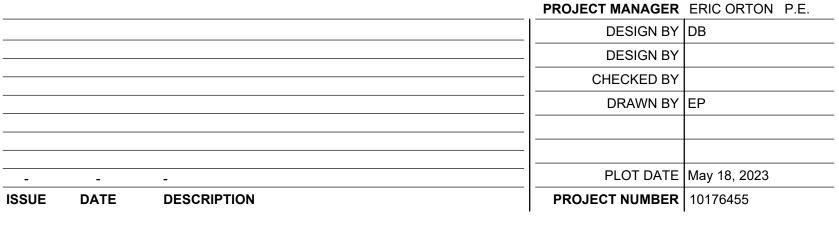
1" 2" **FILENAME** 01M003.DWG

SCALE AS NOTED

01M003









KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT
NISQUALLY INDIAN TRIBE
EDA AWARD NUMBER 07-79-07880

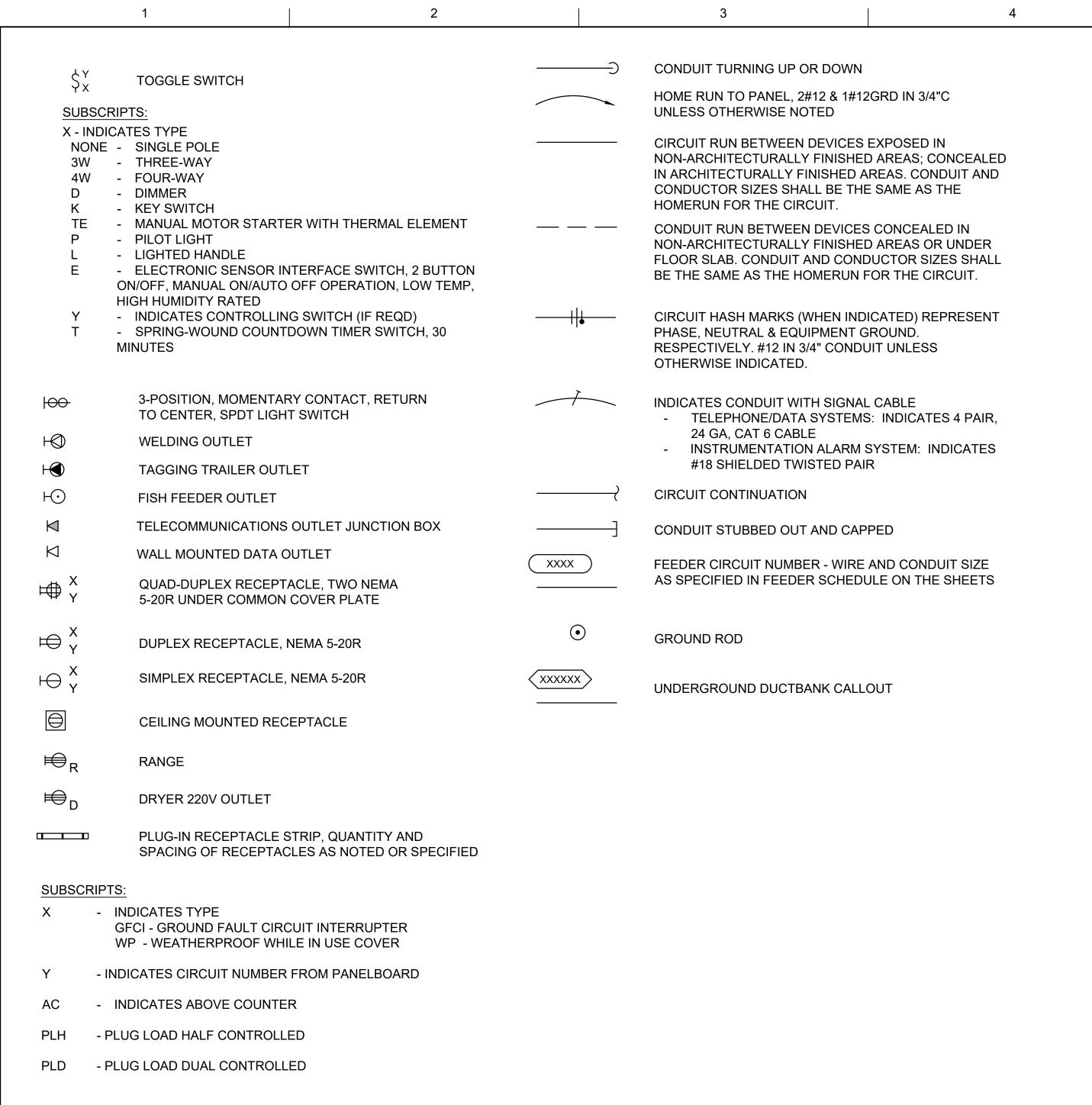




FILENAME 01E001.DWG

SCALE AS NOTED

01E001



ALARM HORN

ALARM FLASHING LIGHT

ALARM HORN AND FLASHING LIGHT COMBINATION UNIT SUBSCRIPT: NONE - GENERAL ALARM DEVICE F - FIRE ALARM DEVICE

SD SMOKE ALARM

HD

CO

CARBON MONOXIDE ALARM

HEAT DETECTOR

TV COAX OUTLET

EXHAUST FAN

ABBREVIATIONS:

CPT

GND

AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
AIC AMPS INTERRUPTING CAPACITY
AIT ANALYSIS INDICATING TRANSMITTER
ATS AUTOMATIC TRANSFER SWITCH

C CONDUIT CL CENTER LINE

CONTROL POWER TRANSFORMER

DP DISTRIBUTION PANEL

EF EXHAUST FAN
EUH ELECTRIC UNIT HEATER

GROUND

FDR FEEDER FUT FUTURE

GFEPCI GROUND FAULT EQUIPMENT
PROTECTION CIRCUIT INTERRUPTER
GFI GROUND FAULT INTERRUPTING

HH HAND HOLE

HIM HUMAN INTERFACE MODULE

LC LOAD CENTER
LP LIGHTING PANEL
LT LIQUID TIGHT
LTG LIGHTING

MCP MOTOR CIRCUIT PROTECTOR

MFR MANUFACTURER
MIN MINIMUM
MLO MAIN LUG ONLY

NEC NATIONAL ELECTRIC CODE
NF NON-FUSED

NMC NON-METALLIC SHEATHED CABLE

OVHD OVERHEAD

PGB PRINCIPAL GROUND BUS

PR PAIR

RGS RIGID GALVANIZED STEEL

SPD SURGE PROTECTIVE DEVICE SPDT SINGLE POLE DOUBLE THROW SS STAINLESS STEEL

TSP TWISTED SHIELDED PAIR

UTP UNSHIELDED TWISTED PAIR

VFD VARIABLE FREQUENCY DRIVE WCT WESTSLOPE CUTTHROAT TROUT

P WEATHERPROOF

GENERAL NOTES:

FURNISHED.

 THIS IS A STANDARD ELECTRICAL SYMBOLOGY SHEET. NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.

2. IN GENERAL, CONDUIT ROUTING IS NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING ALL CONDUITS INCLUDING THOSE SHOWN ON ONE-LINES AND HOME RUNS. SEE SPECIFICATIONS FOR CONDUIT INSTALLATION REQUIREMENTS. CONDUIT ROUTINGS AND STUB-UP LOCATIONS THAT ARE SHOWN ARE APPROXIMATE. EXACT ROUTINGS SHALL BE AS REQUIRED FOR EQUIPMENT

3. WHEN BRANCH CIRCUITS ARE NOT SHOWN ON THE PLANS THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS AND CONDUCTORS REQUIRED. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE BRANCH CIRCUIT.

4. 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.

5. SEE P&ID LEGEND SHEET FOR PROJECT SPECIFIC EQUIPMENT SYMBOLS, EQUIPMENT ABBREVIATIONS, AND PIPING SYSTEM ABBREVIATIONS.

6. REFERENCE PLAN SHEET DESIGNATION AND CLASSIFICATION. REFERENCE SECTION 260500 FOR MATERIAL APPLICATION SCHEDULE.

PROJECT MANAGER ERIC ORTON P.E.

DESIGN BY DESIGN BY CHECKED BY DRAWN BY AB

- - - PLOT DATE May 18, 2023

PROJECT NUMBER 10176455



KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT
NISQUALLY INDIAN TRIBE
EDA AWARD NUMBER 07-79-07880

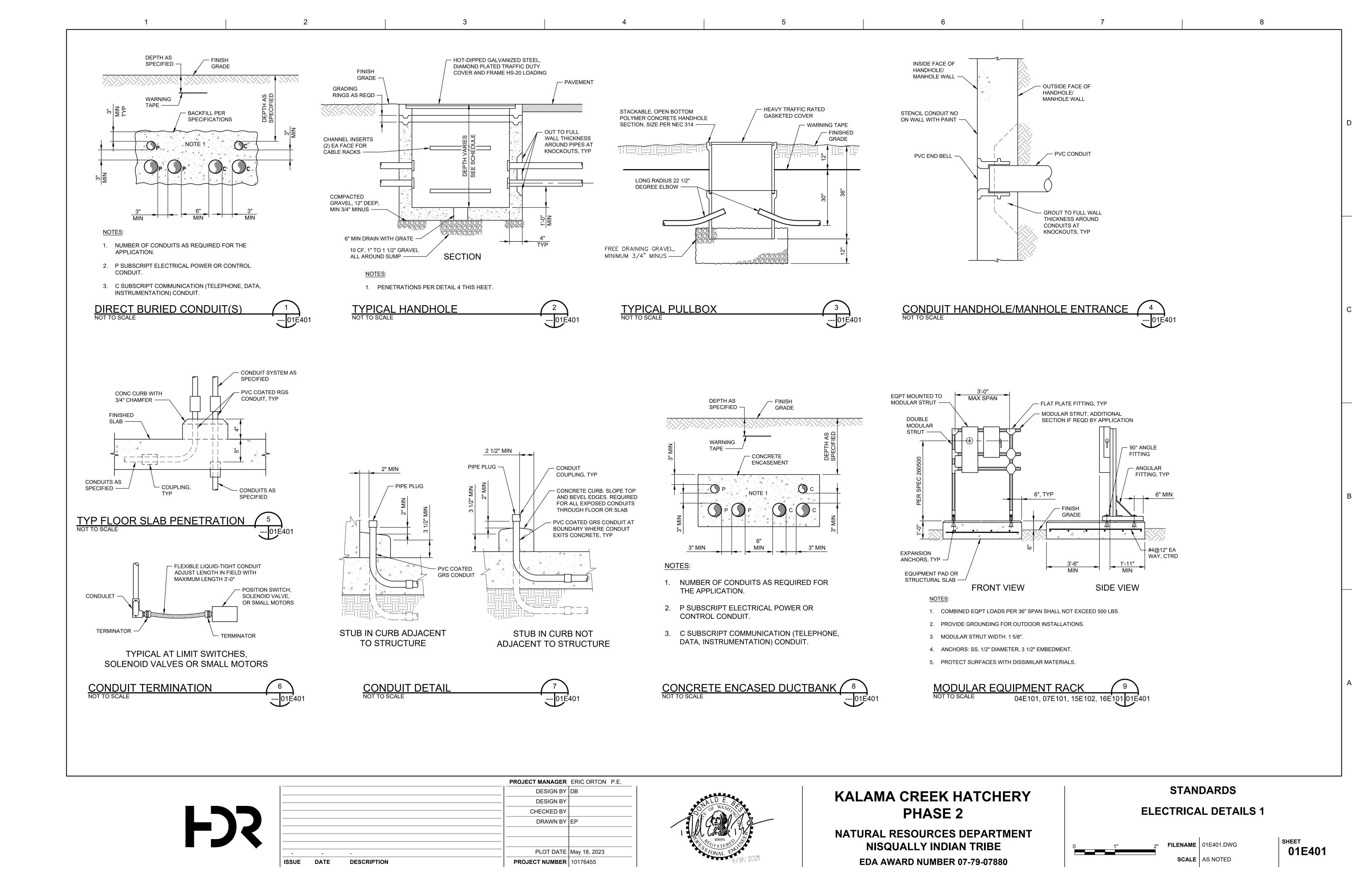
STANDARDS
ELECTRICAL LEGEND 2

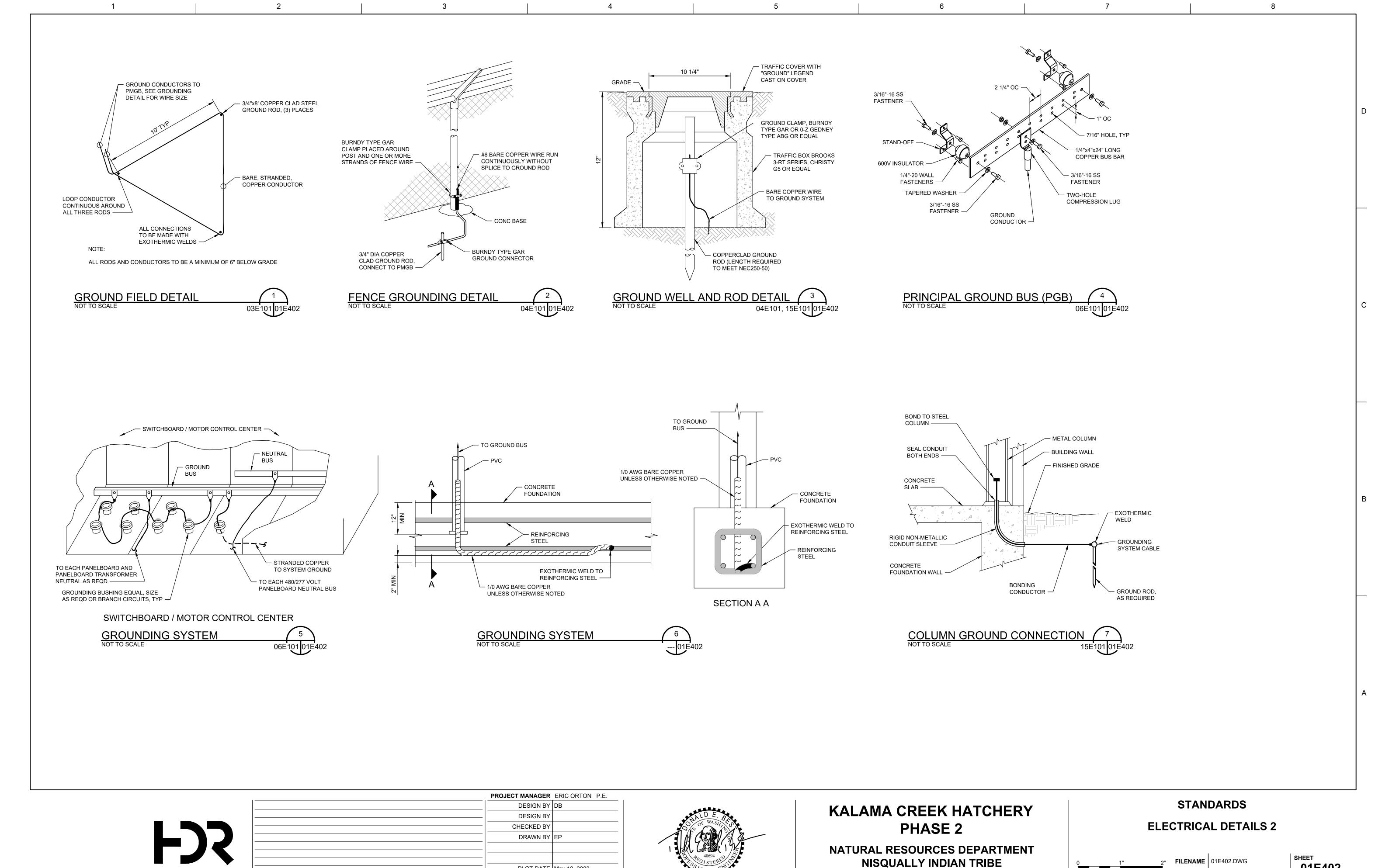


FILENAME 01E002.DWG

SCALE AS NOTED

SHEET 01E002





PROJECT NUMBER | 10176455

DATE

DESCRIPTION

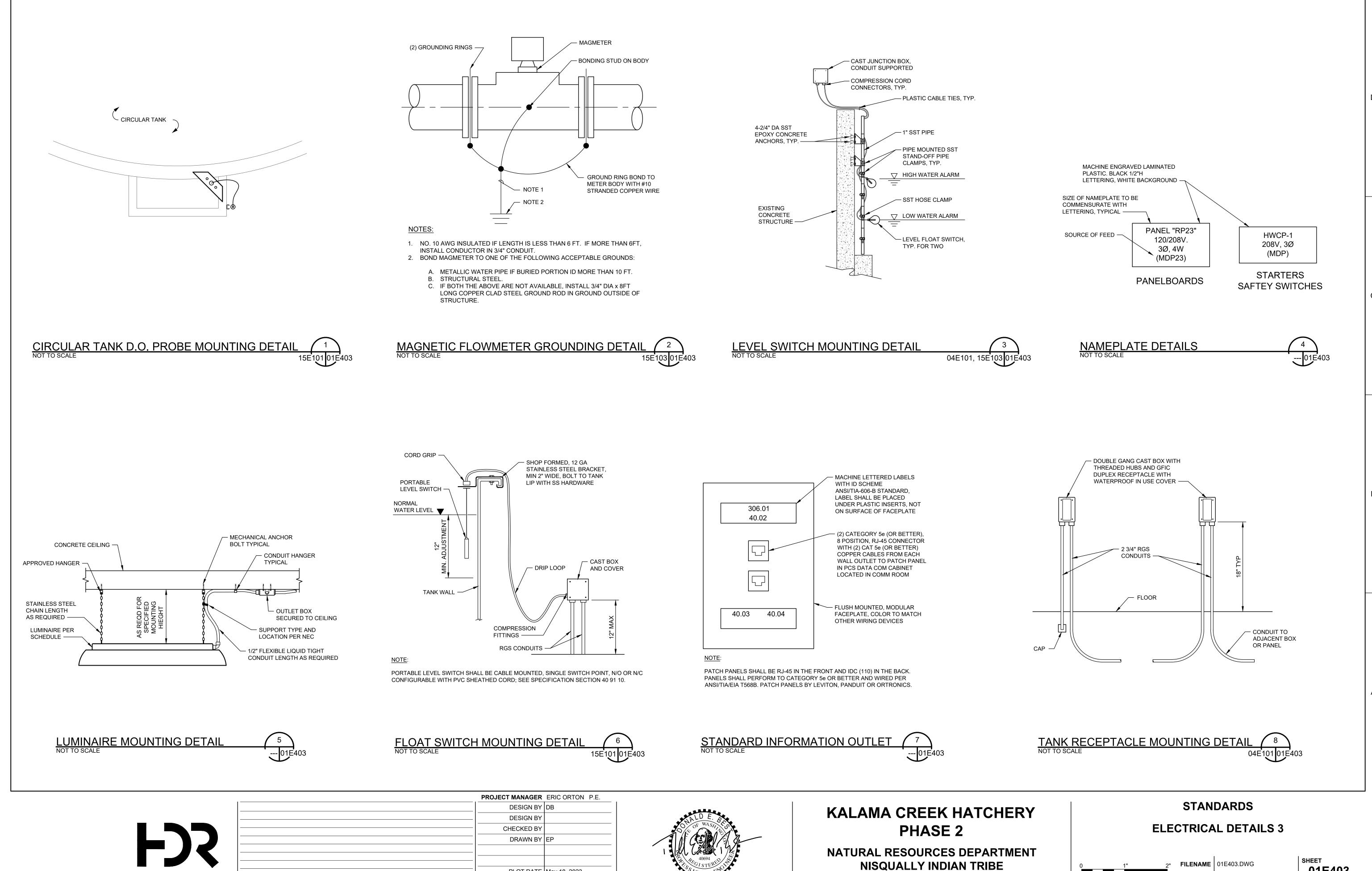
SCALE O1E402.DWG
AS NOTED

SHEET

01E402

SHEET

01E402



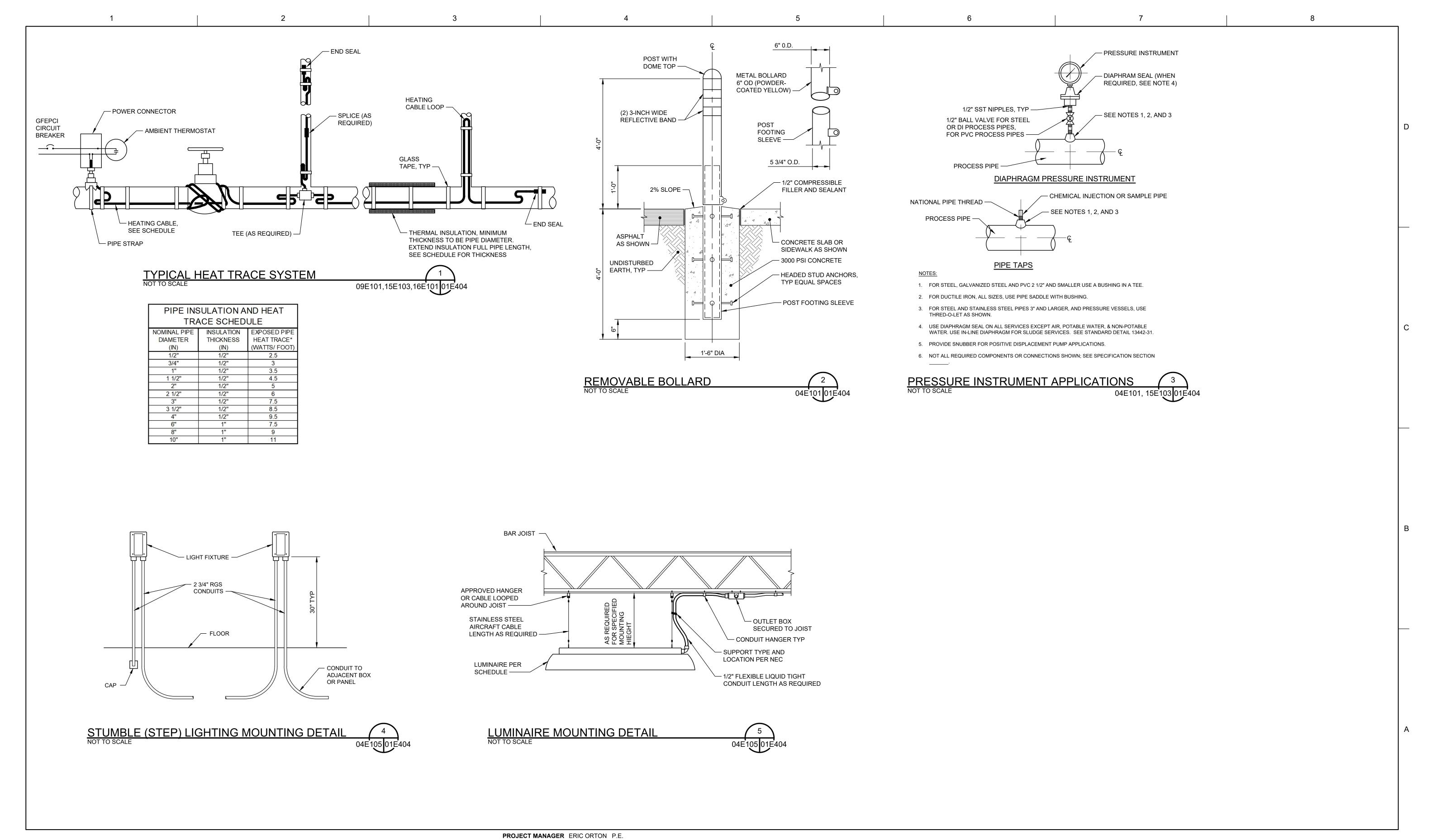
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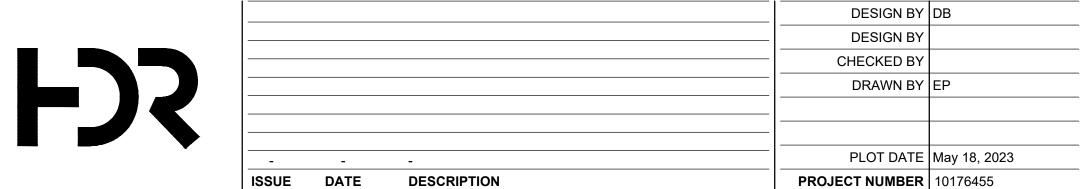
DATE

DESCRIPTION

01E403

SCALE AS NOTED





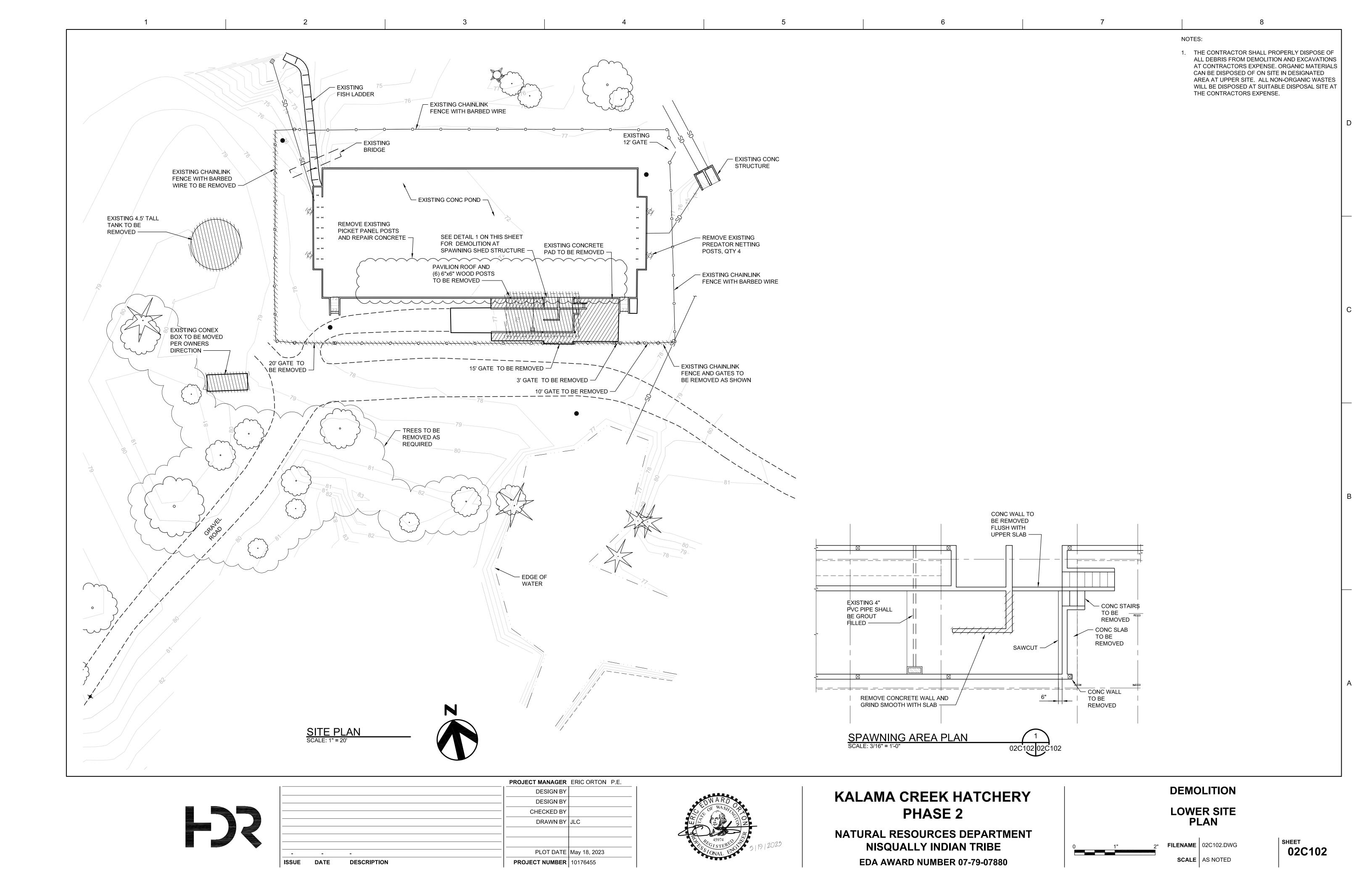


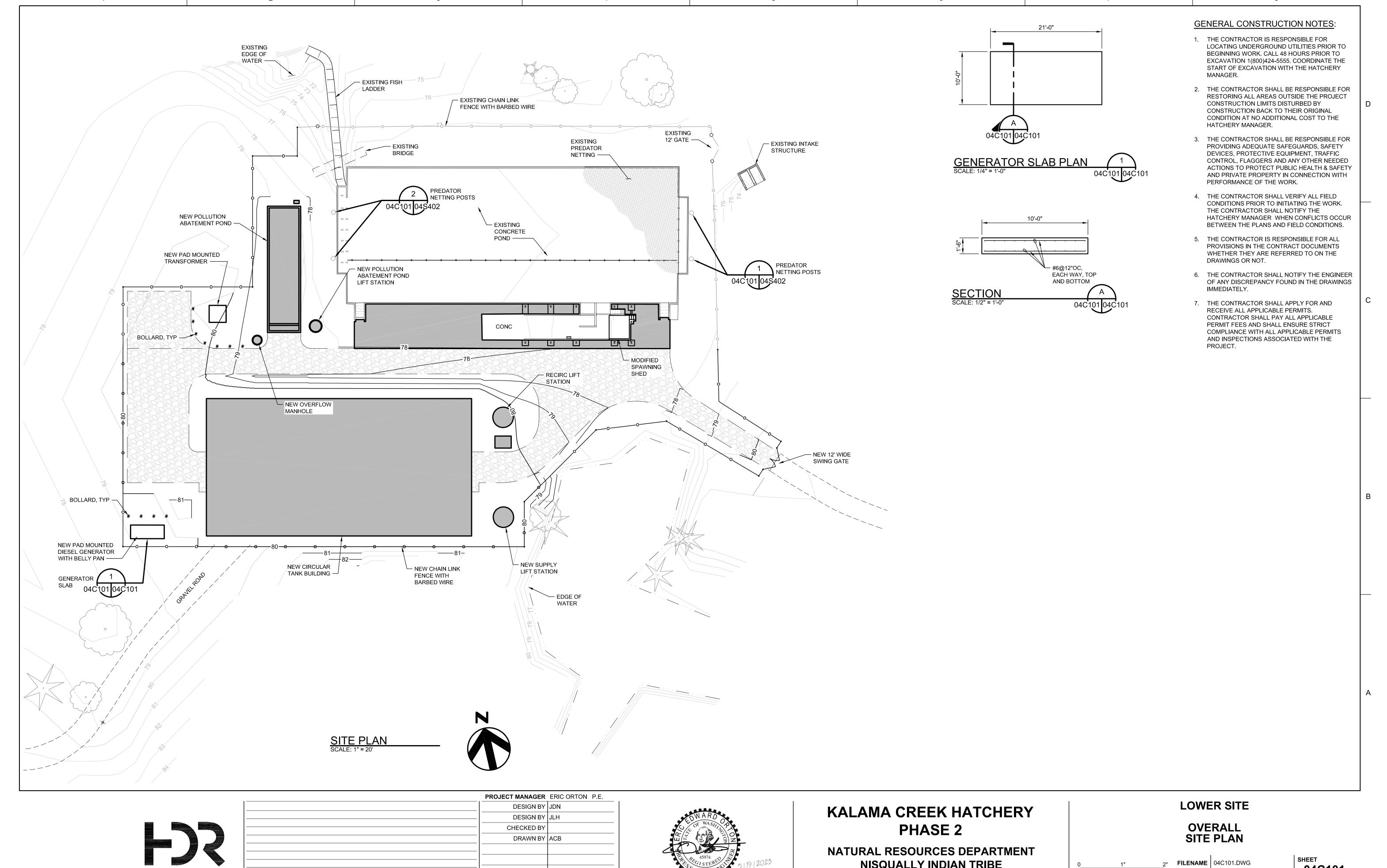
KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880 STANDARDS
ELECTRICAL DETAILS 4



01E404





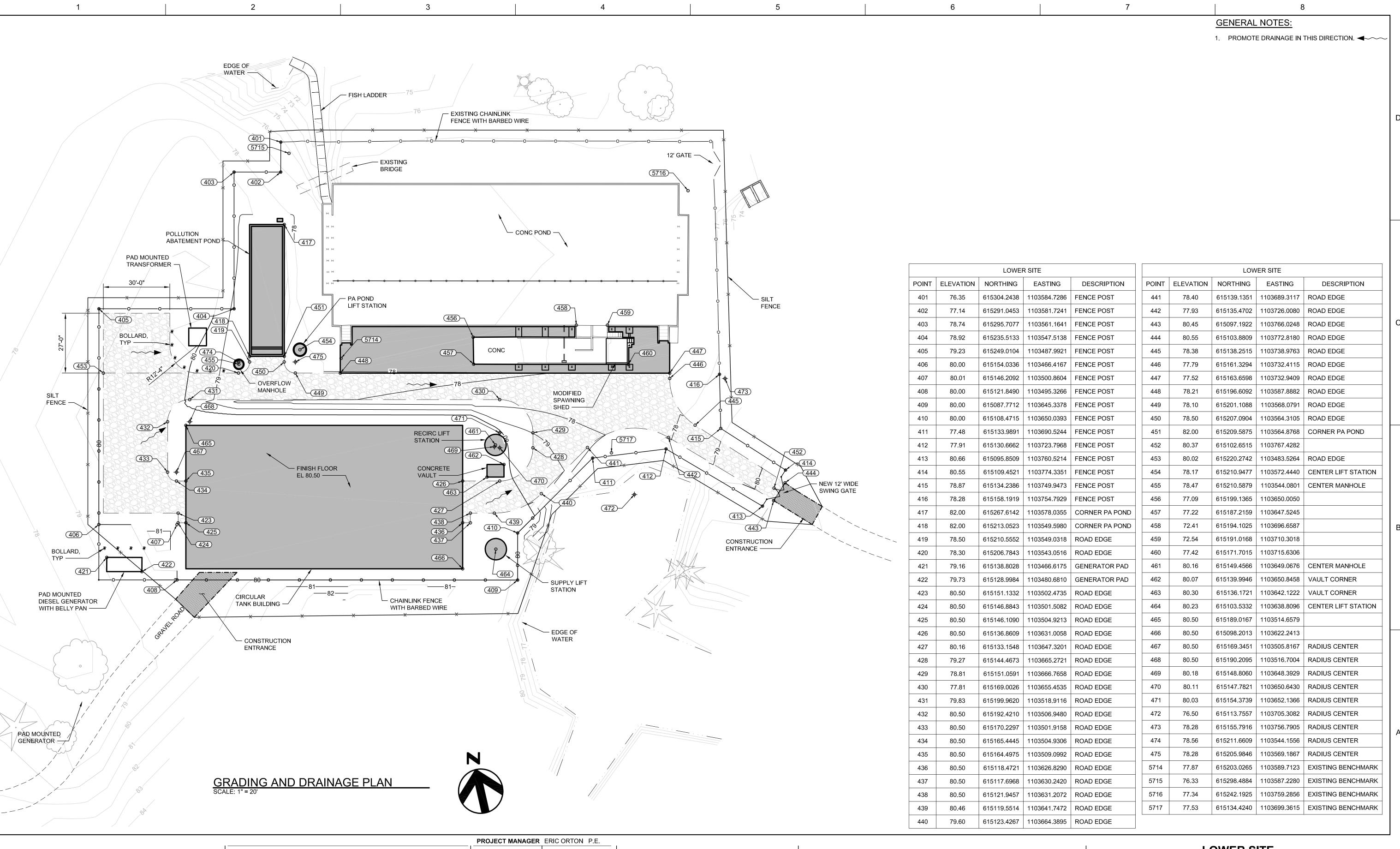
PROJECT NUMBER | 10176455

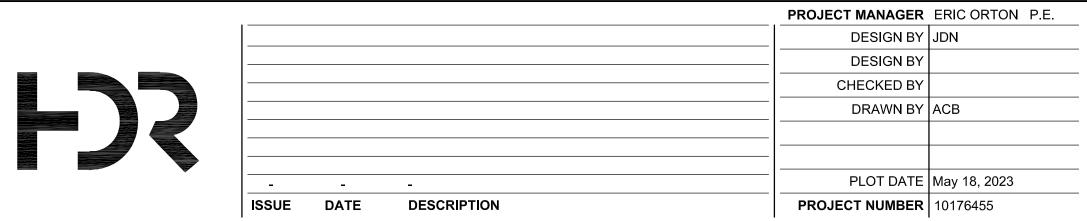
DATE

DESCRIPTION

FILENAME 04C101.DWG 04C101 SCALE AS NOTED

NISQUALLY INDIAN TRIBE







KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT
NISQUALLY INDIAN TRIBE
EDA AWARD NUMBER 07-79-07880

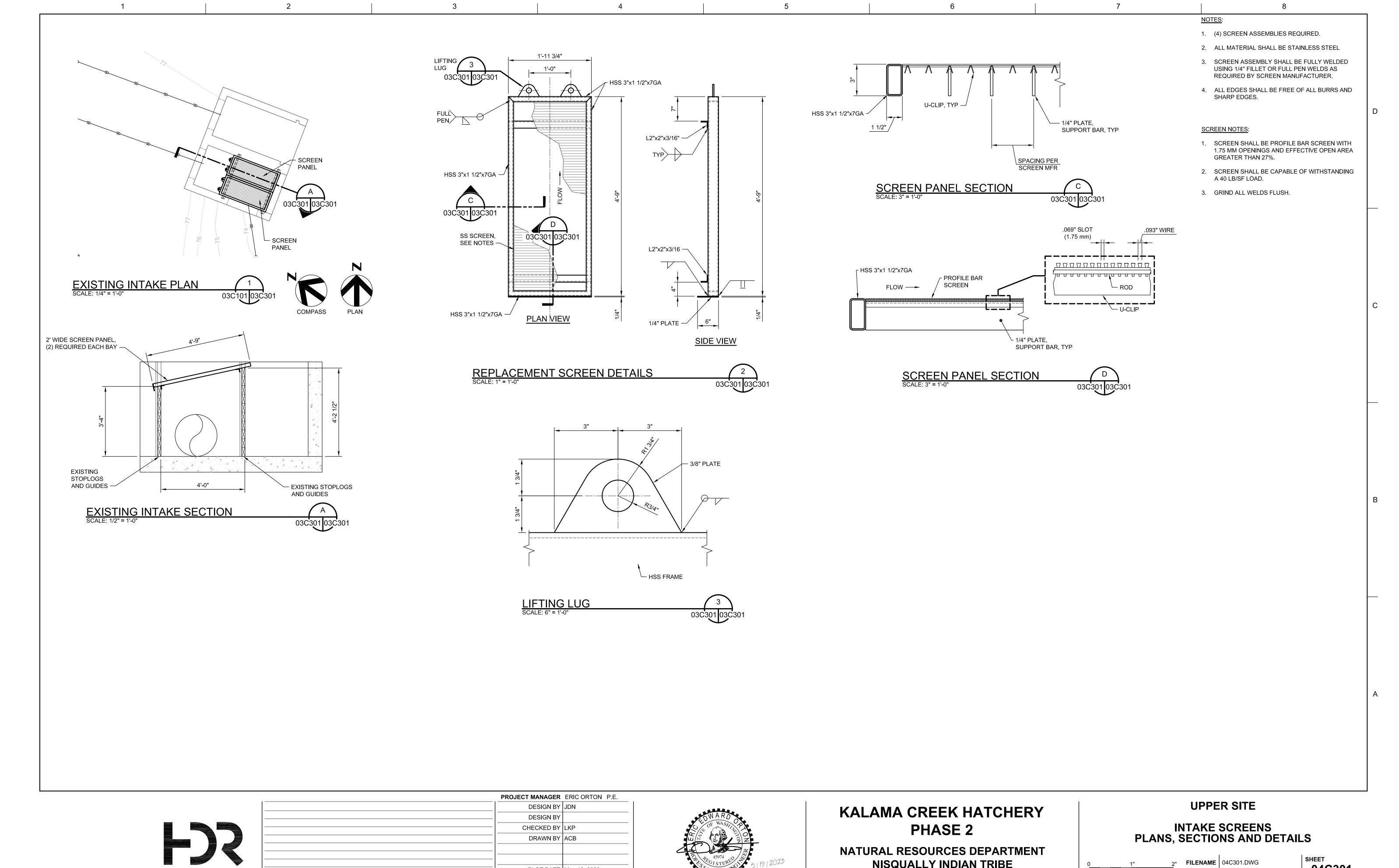
LOWER SITE

SITE GRADING AND DRAINAGE PLAN



FILENAME 04C103.DWG

SCALE AS NOTED



PROJECT NUMBER 10176455

DATE

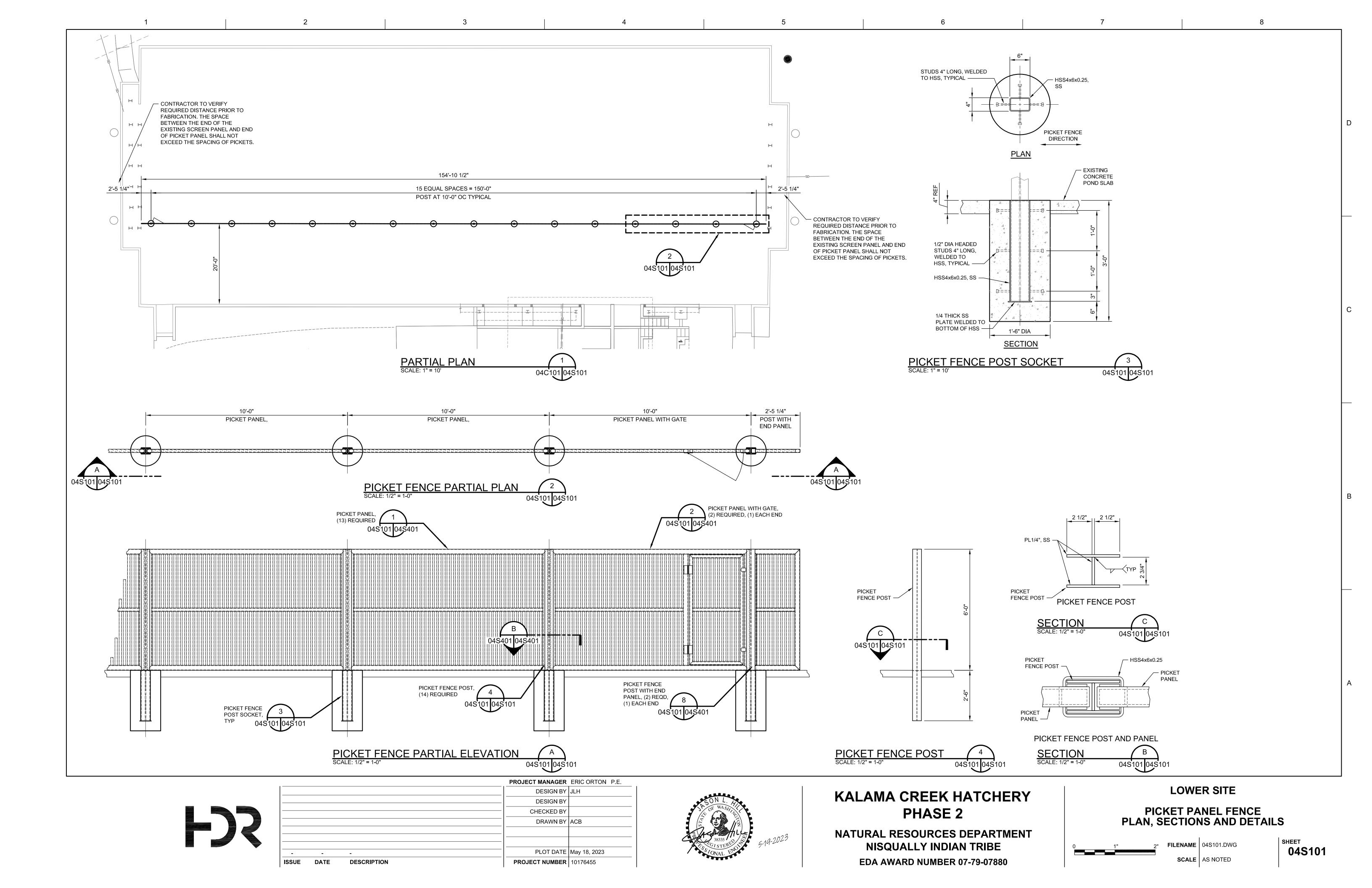
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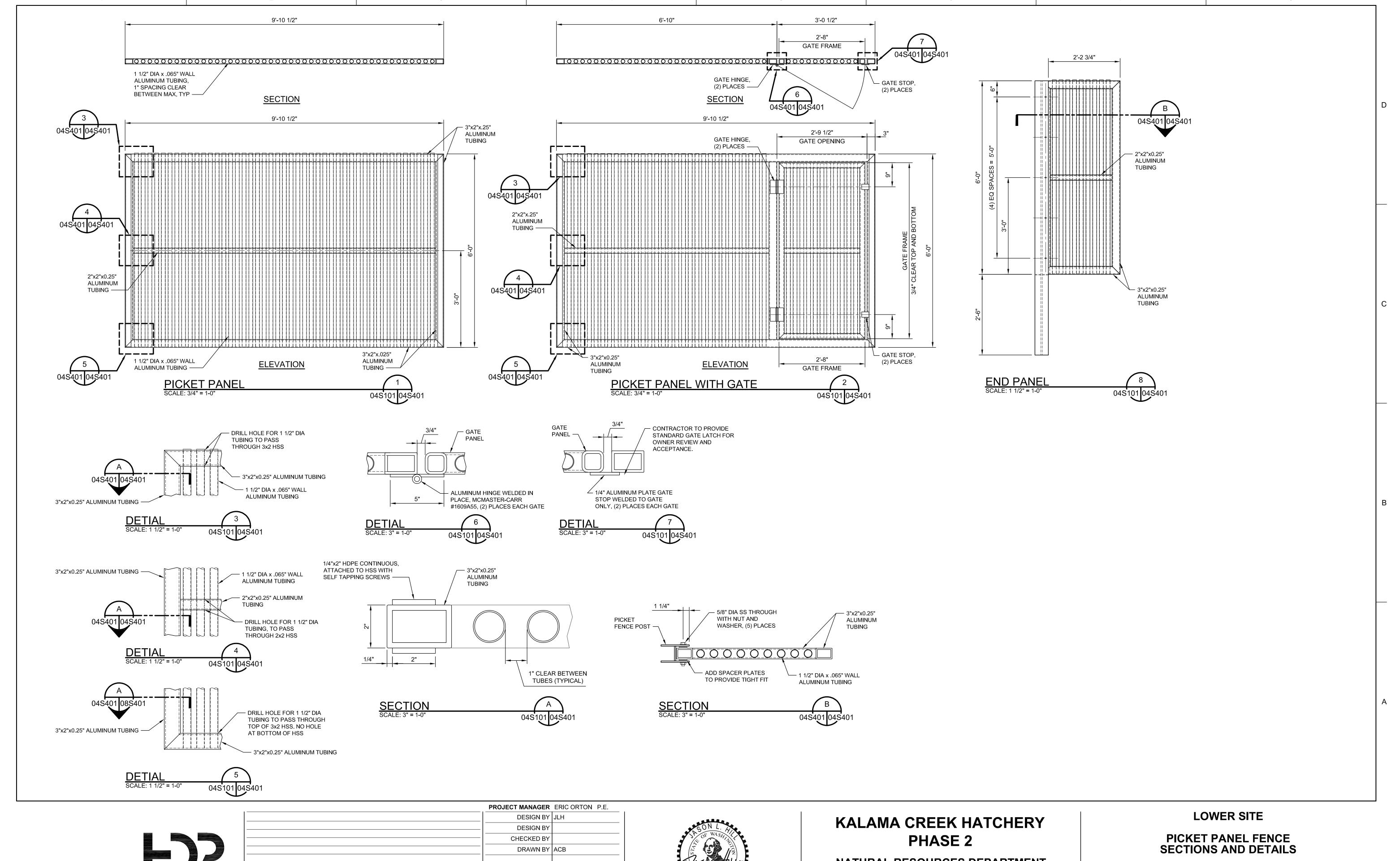
04C301

FILENAME 04C301.DWG

SCALE AS NOTED

NISQUALLY INDIAN TRIBE

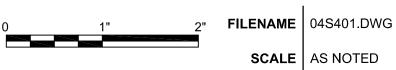




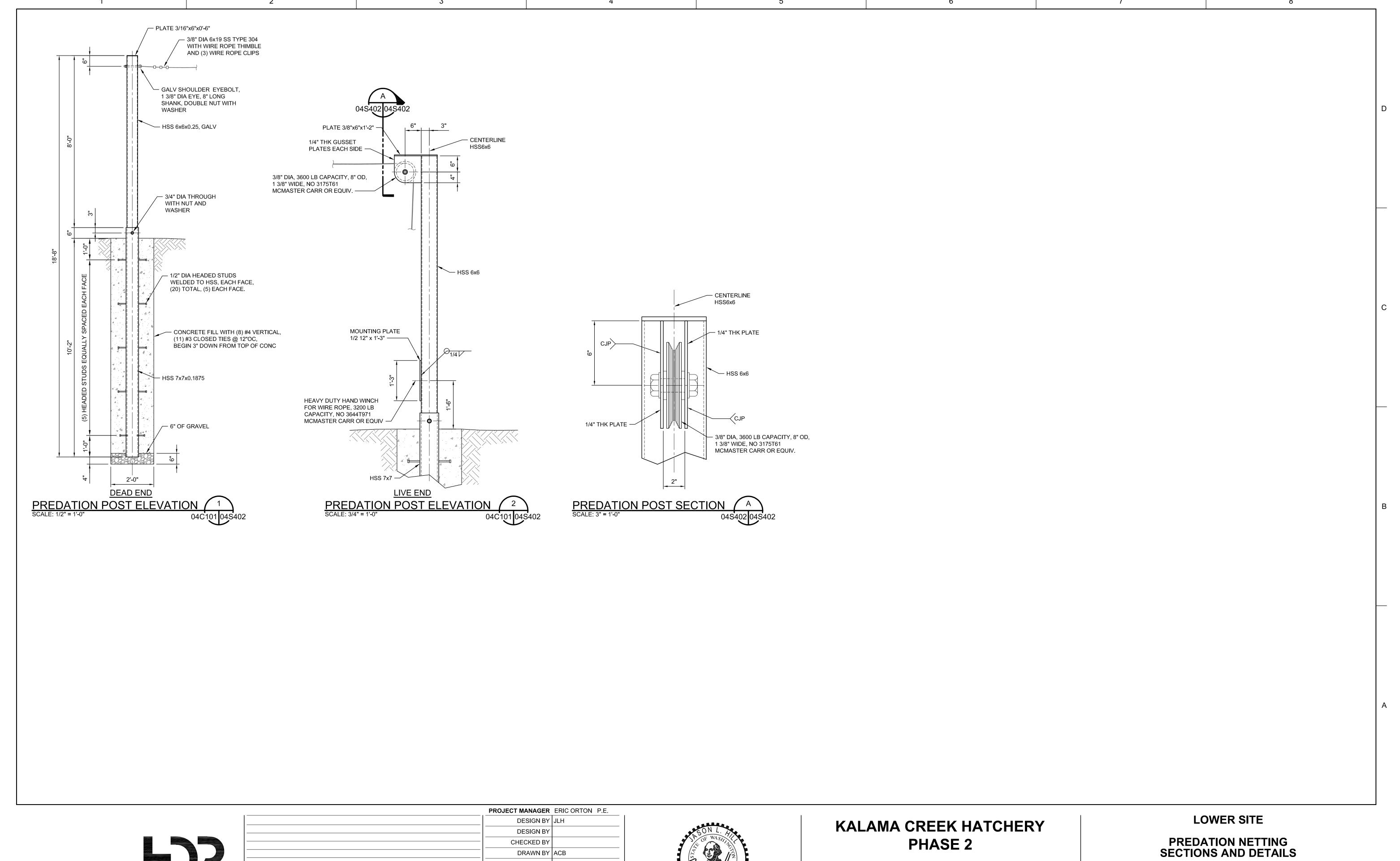
PLOT DATE | May 18, 2023 ISSUE DATE DESCRIPTION PROJECT NUMBER | 10176455

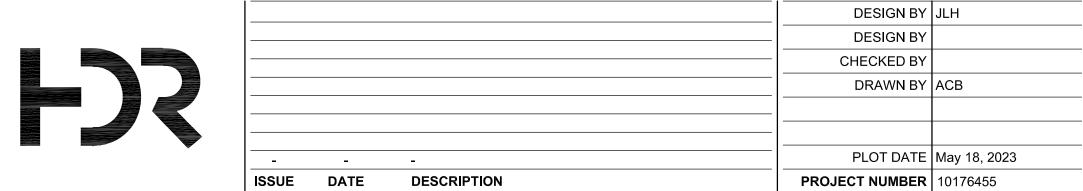


NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**



04\$401





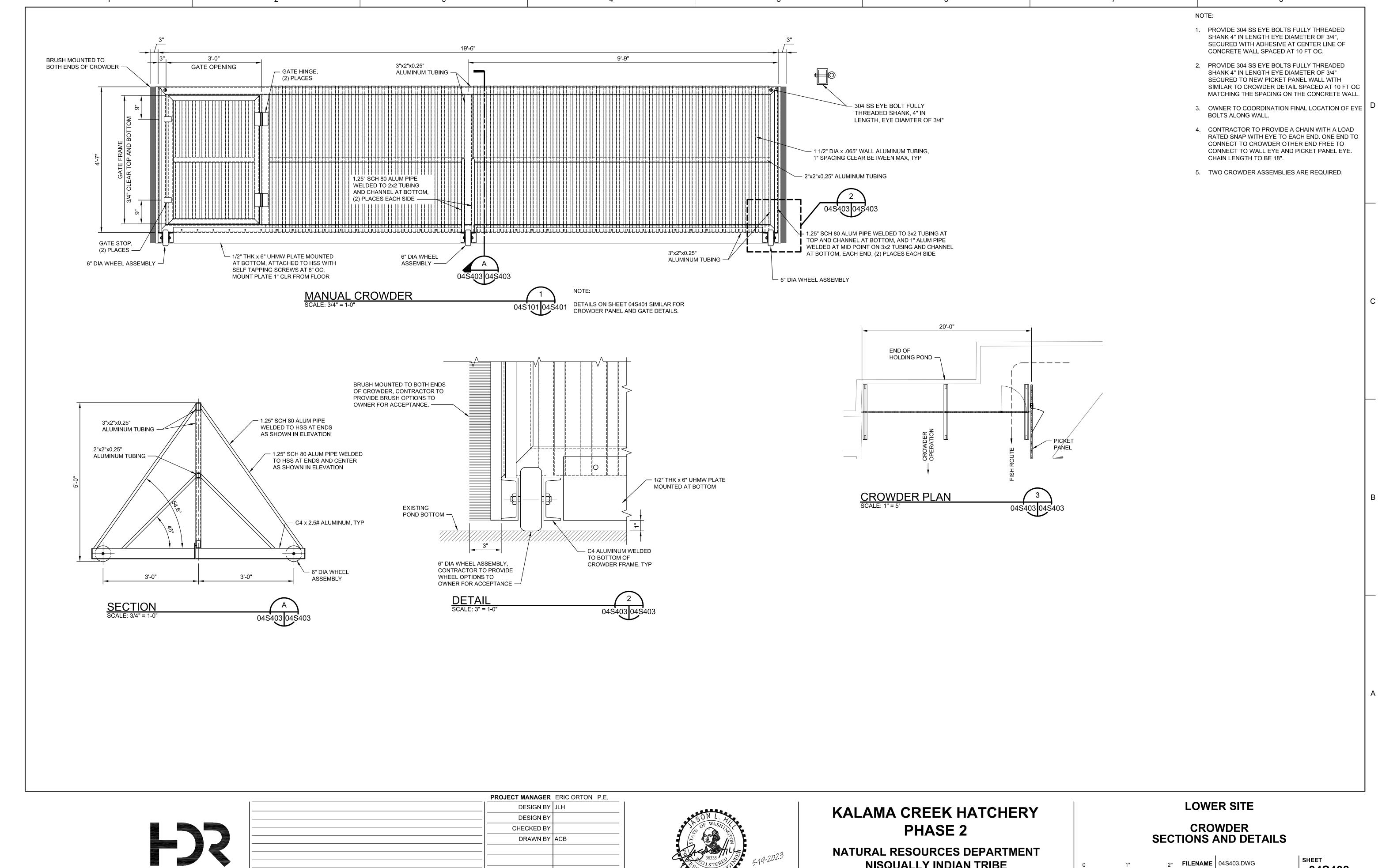


NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**



FILENAME 04S402.DWG SCALE AS NOTED

04S402



PROJECT NUMBER | 10176455

DATE

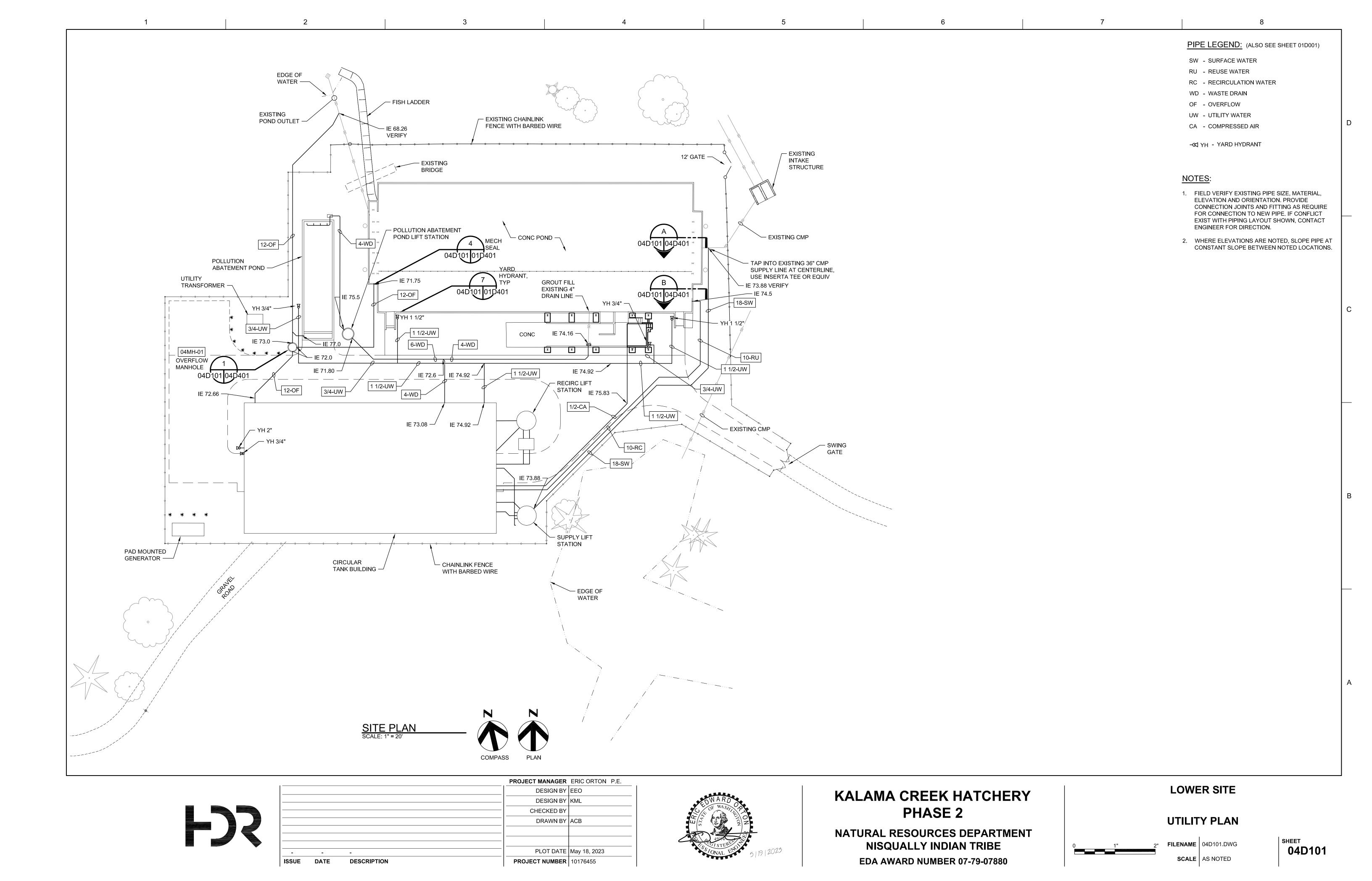
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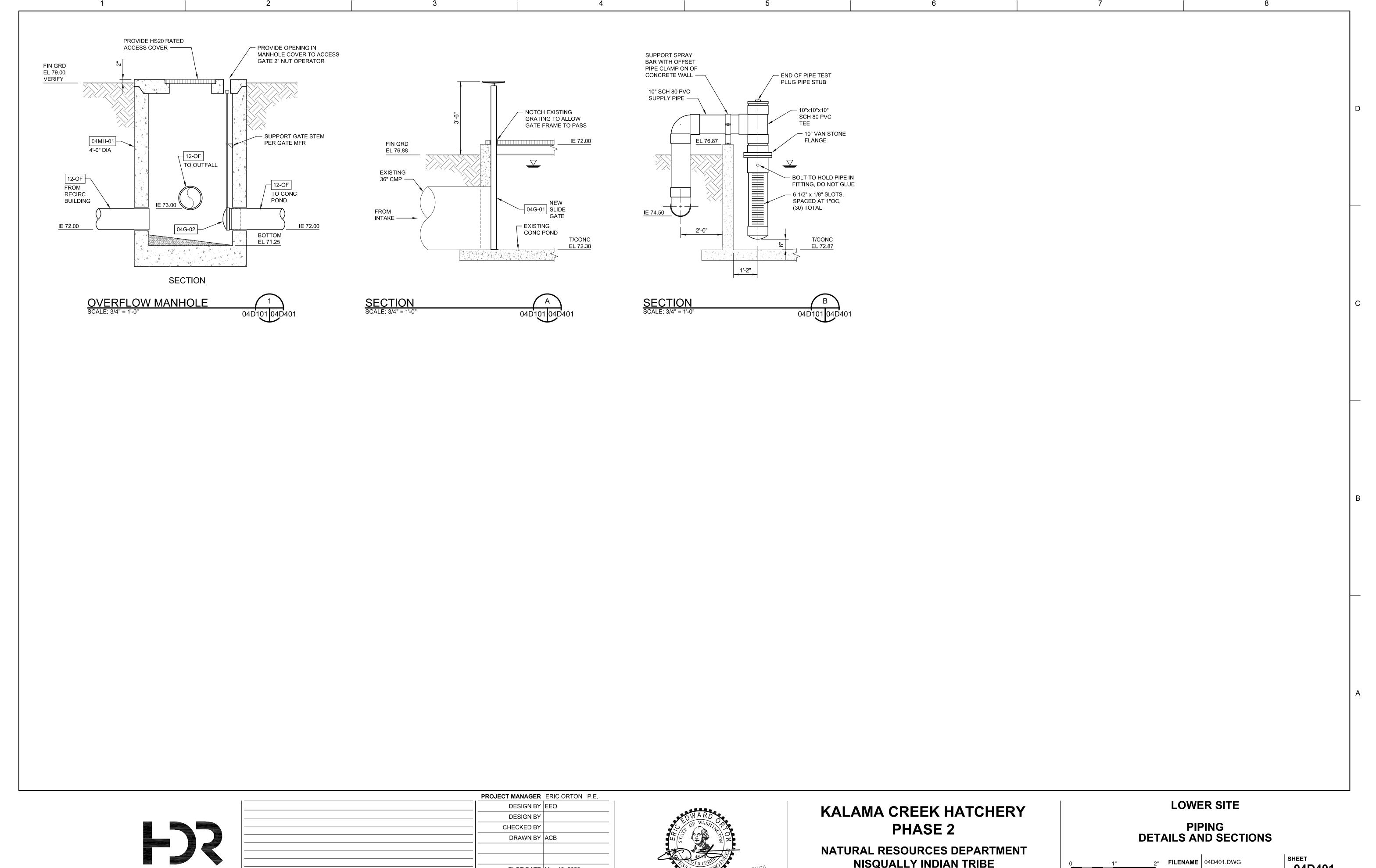
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FILENAME 04S403.DWG

SCALE AS NOTED

NISQUALLY INDIAN TRIBE





DRAWN BY ACB

PROJECT NUMBER 10176455

DATE

DESCRIPTION

PLOT DATE May 18, 2023



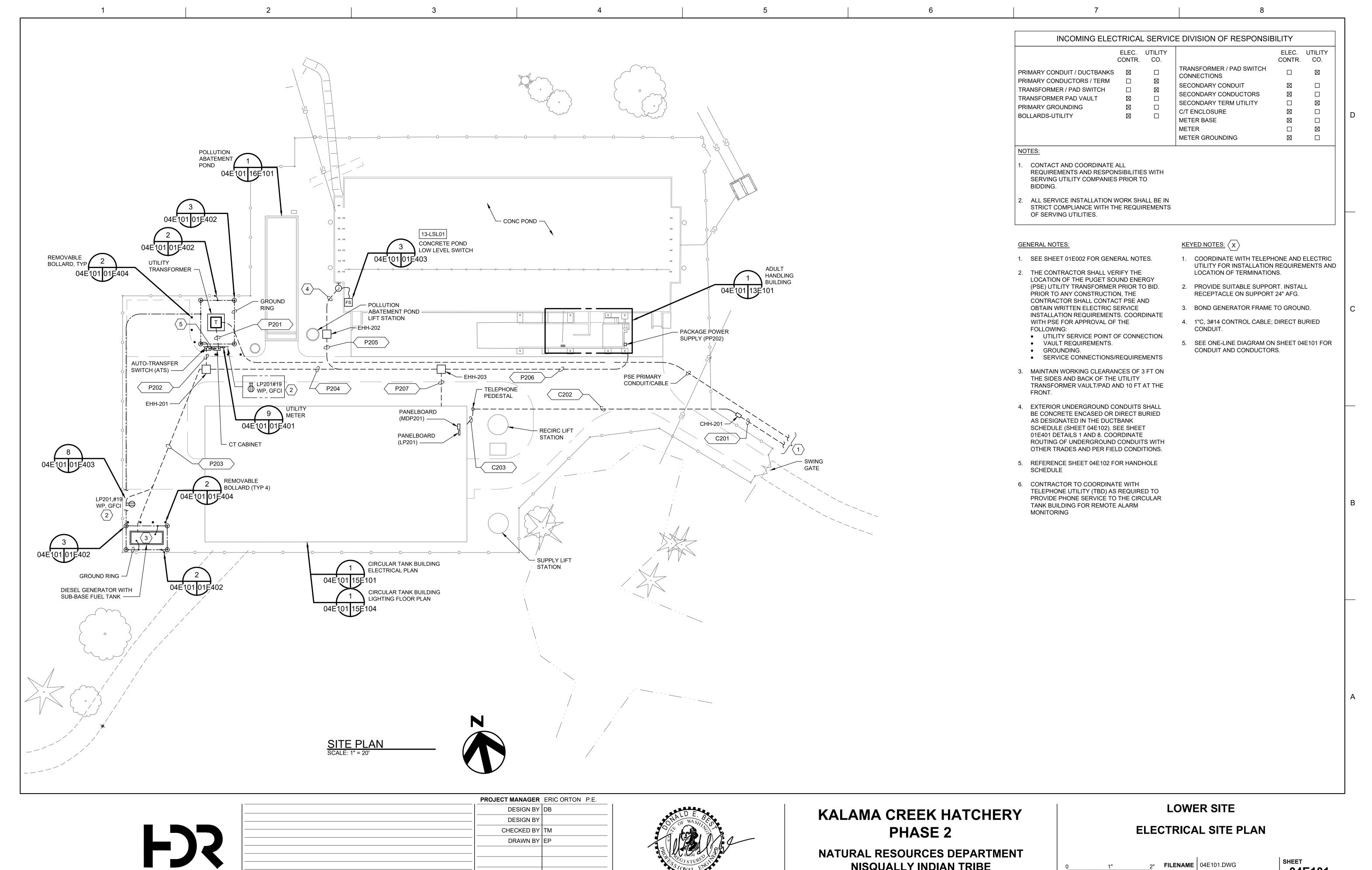
PHASE 2

NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**

PIPING DETAILS AND SECTIONS



FILENAME 04D401.DWG SCALE AS NOTED



PROJECT NUMBER | 10176455

DATE

DESCRIPTION

FILENAME 04E101.DWG SCALE AS NOTED

NISQUALLY INDIAN TRIBE

ELI	ELECTRICAL HANDHOLE SCHEDULE - LOWER SITE										
HANDHOLE TAG NUMBER	TYPE	MIN. INSIDE DIMENSIONS (L, W, D)	NOTES								
EHH-201	POWER/CONTROL	3'-6", 3'-6", 3'-2"	1								
EHH-202	POWER/CONTROL	3'-0", 2'-0", 2'-8"	1								
EHH-203	POWER/CONTROL	3'-6", 3'-6", 3'-2"	1								
CHH-201 TELEPHONE		2'-5", 1'-5", 1'-9"	2								

NOTES:

 TOP WITH PADLOCKABLE (RECESSED PADLOCK HASP), H-20 RATED, SPRING ASSISTED, GALVANIZED, DIAMOND PLATE DOOR. DOOR SHALL BE CASTED WITH THE LEGEND OF THE HANDHOLE TAG NUMBER.

2. HIGH DENSITY POLYMER CONCRETE JUNCTION BOX WITH BOLT DOWN COVER, TIER 15 - 20K

	DUCTBANK SCHEDULE - LOWER SITE										
TAG	ТҮРЕ	CONDUITS	CONDUCTORS (AWG OR KCMIL)	ORIGIN	DESTINATION	NOTES/DESCRIPTION					
P201	POWER	2 SETS OF 3"C	4#3/0 & #1/0 GRD IN EACH	UTILITY XFMR	CT CABINET	SERVICE CONDUCTORS; SECONDARY					
P202	POWER	2 SETS OF 3"C 3" C 2" C 2" C 1" C	4#3/0 IN EACH 4#300 & #4 GRD 12#14 CONTROL CABLE 12#14 CONTROL CABLE 4#10 & #10 GRD PULL ROPE	ATS ATS ATS ATS RCPT STUB UP	EHH-201 EHH-201 EHH-201 EHH-201 EHH-201	MDP201 FEEDER STANDBY POWER ATS CONTROL/ALARM SIGNALS GENSET CONTROL/ALARM SIGNALS CONVENIENCE RECEPTACLE SPARE CONDUIT					
P203	3"C 4#300 & #4 GRD PULL ROPE 2"C 12#14 CONTROL CABLE 1"C 2#8 & #10 GRD 1"C 2#10 & #10 GRD 1"C 2#10 & #10 GRD 1"C PULL ROPE		GENSET GENSET GENSET GENSET GENSET GENSET GENSET	EHH-201 EHH-201 EHH-201 EHH-201 EHH-201 EHH-201	STANDBY POWER SPARE CONDUIT GENSET CONTROL/ALARM SIGNALS GENSET HEATER BATTERY CHARGER CONVENIENCE RECEPTACLE SPARE CONDUIT						
P204	POWER & CONTROL SIGNALS	2 SETS OF 3"C 3"C 2 SETS OF 2"C 2"C 1"C 1"C 1"C 3 SETS OF 1"C	4#3/0 IN EACH & #2 GND IN EACH PULL ROPE 12#14 CONTROL CABLE IN EACH PULL ROPE 2#8 & #10 GRD 2#10 & #10 GRD 2#10 & #10 GRD PULL ROPE IN EACH	EHH-201 EHH-201 EHH-201 EHH-201 EHH-201 EHH-201 EHH-201	EHH-203 EHH-203 EHH-203 EHH-203 EHH-203 EHH-203 EHH-203	MDP201 FEEDER SPARE CONDUIT STATUS/ALARM MONITORING SPARE CONDUIT GENSET HEATER GENSET BATTERY CHARGER CONVENIENCE RECEPTACLES SPARE CONDUIT					
P205	POWER & CONTROL SIGNALS	1"C 1"C 1"C 1"C 1"C 3 SETS OF 1"C	3#10 & #10 GRD 8#14 CONTROL CABLE 2#10 & #10 GRD 4#10 & #10 GRD 3#14 CONTROL CABLE PULL ROPE IN EACH	EHH-202 EHH-202 EHH-202 EHH-202 EHH-202	EHH-203 EHH-203 EHH-203 EHH-203 EHH-203	PA POND LIFT STATION FEEDER PA POND LIFT STATION ALARM HEAT TRACE CONVENIENCE RECEPTACLES CONC POND LEVEL SWITCH SPARE CONDUIT					
P206	POWER	1 1/2"C 1"C	2#4 & #8 GRD PULL ROPE	PP-202 CAP	EHH-203 EHH-203	PACKAGE POWER SUPPLY FEEDER (PP202) SPARE CONDUIT					
P207	POWER & CONTROL SIGNALS	2 SETS OF 3"C 3"C 2 SETS OF 2"C 2"C 1"C 1"C 1"C 1"C 1"C 1"C 1"C 2 SETS OF 1"C 6 SETS OF 1"C	4#3/0 IN EACH & #2 GND IN EACH PULL ROPE 12#14 CONTROL CABLE IN EACH PULL ROPE 2#8 & #10 GRD 2#10 & #10 GRD 3#10 & #10 GRD 8#14 CONTROL CABLE 2#10 & #10 GRD 3#14 CONTROL CABLE 2#8 & #10 GRD 2#10 & #10 GRD 2#10 & #10 GRD PULL ROPE IN EACH	EHH-203	MDP201 MDP201 ACP201 LP201	MDP201 FEEDER SPARE CONDUIT STATUS/ALARM MONITORING SPARE CONDUIT GENSET HEATER GENSET BATTERY CHARGER PA POND LIFT STATION FEEDER PA POND LIFT STATION ALARM PA POND HEAT TRACE CONC POND LEVEL SWITCH PACKAGE POWER SUPPLY FEEDER (PP202) CONVENIENCE RECEPTACLES SPARE CONDUITS					
C201	COMMUNICATIONS	2"C 2"C	TELEPHONE CABLE PULL ROPE	TBD TBD	CHH-201 CHH-201	TELEPHONE SERVICE SPARE CONDUIT					
C202	COMMUNICATIONS	2"C 2"C	TELEPHONE CABLE PULL ROPE	CHH-201 CHH-201	PEDESTAL PEDESTAL	TELEPHONE SERVICE SPARE CONDUIT					
C203	COMMUNICATIONS	2"C 2"C	TELEPHONE CABLE PULL ROPE	PEDESTAL PEDESTAL	ACP201 ACP201	TELEPHONE SERVICE SPARE CONDUIT					



KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880 **LOWER SITE**

ELECTRICAL
HANDHOLE AND DUCTBANK SCHEDULES



FILENAME 04E102.DWG

SCALE AS NOTED

	PANELBOARD NO:	MDP20	1													
	VOLTAGE:	480/277		BUS RAT	ΓING (A):					400)		ENCLOS	URE:	NEMA 4	
	PHASE:	3		MAIN OC	DEVICE	(A/PH	AS	E):		400)		MOUNTI	NG:	SUFACE	
	WIRE:	4+GND		INTERRU	JPTING F	RATING) (K	(A):		35			LOCATION	ON:	LOWER SITE	
	200% NEUTRAL:	NO		SERVICE	ENTRAI	NCE LA	ABE	EL:		NO					CIRCULAR TANK BLDG.	
СКТ	•	CON	NECTE	LOAD (\		OCF			OCF			NNECTE		VA)		СК
	DESCRIPTION	LTS	REC	MECH	MISC	AMPS	Р	_	AMPS	Р	LTS	REC	MECH	MISC	DESCRIPTION	NC
	PA POND			1,000				Α								2
3	LIFT STATION			1,000		20	3	В	20	3					SURGE	4
5	(2 HP)			1,000				С							ARRESTOR	6
7	RECIRCULATION			10,333				Α					1,667		AIR	8
9	LIFT STATION			10,333		70	3	В	20	3			1,667		COMPRESSOR	10
11	(TWO 15 HP)			10,333				С					1,667		(5 HP)	12
13	SUPPLY			13,667				Α					1,000		BOOSTER	14
15	LIFT STATION			13,667		100	3	В	20	3			1,000		PUMP	16
17	(TWO 20 HP)			13,667				С		l			1,000		(3 HP)	18
19				1,667				A	450					14,000	PANELBOARD (LP201)	20
21	DRUM FILTER			1,667		20	3	В	150	2 -				12,000	(50 KVA)	22
23	(5 HP)			1,667				c							SPARE	24
25	EXHAUST FAN			800				A	30	2					CIRCUIT BREAKER	26
27	CIRC. TANK BLDG.			800		20	3	В						4,000	PKG POWER SUPPLY (PP202)	28
29	(2 HP)			800					80	2 -					(15 KVA)	30
31								A						,		32
33	SPARE					20	3	В	30	3					SPARE	34
	CIRCUIT BREAKER							C		F					CIRCUIT BREAKER	36
37								A								38
	SPARE					20	3	В	30	3					J SPARE	40
	CIRCUIT BREAKER							c							CIRCUIT BREAKER	42
	-	1				LOA	AD :	SUN	//MARY	,		1	•			=-
		LTS	REC	MECH	MISC	SPAF	RE	Т	JATC						PHASE BALANCE	
CON	NECTED LOAD (KVA)	0.0	0.0	90.4	35.0			1	25.4		480	LINE-TO	-LINE VO	LTS	PHASE A (KVA)	7
DEM	MAND FACTOR	1.25	NEC	1.00	1.00	20%	, 0				151	CONNE	CTED AM	PS	PHASE B (KVA)	
DES	SIGN LOAD (KVA)	0.0	0.0	90.4	35.0	25.1	1	1	50.5	 	181	DESIGN	AMPS		PHASE C (KVA)	1 3

OLTAGE:															
OLIAGE.	240/120 BUS RATING (A):							400				ENCLOSURE:		NEMA 4	
PHASE:	1		MAIN OC	DEVICE	: :				250/	/2		MOUNTI	NG:	SURFACE	
VIRE:	3+GND		INTERRU	JPTING F	RATING	(K/	A) :		10			LOCATIO	ON:	LOWER SITE	
00% NEUTRAL:	NO		SERVICE	ENTRA	NCE LA	ABEL	L:		NO					CIRCULAR TANK BLDG	
	CON	NECTE	D LOAD (VA)	OCF	·		OCP	· T	CO	NNECTE	D LOAD (VA)		С
DESCRIPTION	LTS	REC	MECH	MISC	AMPS	Р	Α	MPS	Р	LTS	REC	MECH	MISC	DESCRIPTION	N
CPT; CIRC TANK BLDG NORTH		720			20	1	Α	45	2		3,000			-CIRC TANK SPC N1	
CPT; CIRC TANK BLDG SOUTH		720			20	1	В	73			3,000			CIRCO PAINT OF CIRT	
RCPT; CIRC TANK BLDG WEST		360			20	1	Α	45	2		3,000			-CIRC TANK SPC N2	
O.O. ANALYZERS			100		20	1	В	43			3,000			- CINC TANK SEC INZ	
RCPT; CO2 BLOWERS		720			20	1	Α	20	2 -			1,500		-FISH PUMP	
O2 BLOWER MOTOR			450		20	1	В	20				1,500		- FISH FOIMF	
JV CONTROL PANEL			1,300		20	2	Α	30	2					-SPARE CIRCUIT BREAKER	
OV CONTROL PANEL			1,300		20		В	30						SPARE CIRCUIT BREAKER	
LARM PANEL (AP200)				500	20	1	Α	30	2 -					SPARE CIRCUIT BREAKER	
RCPT; OUTDOORS (GEN & ATS)		360			20	1	В	30				SPARI	SPARE CIRCUIT BREAKER		
SENSET BATTERY CHARGER			500		20	1	A	25	$\overline{}$			800		GENERATOR	
LOWMETERS; GAS TOWERS			100		20	1	В	25	2			800		JACKET WATER HEATER	
PA POND HEAT TRACE			1,000		20	1	Α	20							
SUPPLY PT HEAT TRACE			250		20	1	В	20	2					SPARE CIRCUIT BREAKER	
PARE CIRCUIT BREAKER					20	1	A	20	1					SPARE CIRCUIT BREAKER	
TG; CIRCULAR TANK BLDG	130				20	1	В	20	1					SPARE CIRCUIT BREAKER	
TG; CIRCULAR TANK BLDG	175				20	1	A	20	1					SPARE CIRCUIT BREAKER	
TG; CIRCULAR TANK BLDG	175				20	1	В	20	1					SPARE CIRCUIT BREAKER	
PARE CIRCUIT BREAKER					20	1	A							PREPARED SPACE	
PARE CIRCUIT BREAKER					20	1	В							PREPARED SPACE	
SPARE CIRCUIT BREAKER					20	1	A							PREPARED SPACE	
					LOA	AD S	UMI	MARY	•						
	LTS	REC	MECH	MISC	SPAF	RE	TO	TAL						PHASE BALANCE	
ECTED LOAD (KVA)	0.5	14.9	9.6	0.5			25	5.5		240	LINE-TO	LINE VOI	LTS	PHASE A (KVA)	
ND FACTOR	1.25	NEC	1.00	1.00	20%	5	_			106	CONNEC	CTED AMI	PS	PHASE B (KVA)	
	TOR	OAD (KVA) 0.5 TOR 1.25	OAD (KVA) 0.5 14.9 TOR 1.25 NEC	OAD (KVA) 0.5 14.9 9.6 TOR 1.25 NEC 1.00	OAD (KVA) 0.5 14.9 9.6 0.5 TOR 1.25 NEC 1.00 1.00	LTS REC MECH MISC SPAR LOAD (KVA) 0.5 14.9 9.6 0.5 TOR 1.25 NEC 1.00 1.00 20%	LTS REC MECH MISC SPARE LOAD (KVA) 0.5 14.9 9.6 0.5 TOR 1.25 NEC 1.00 1.00 20%	LTS REC MECH MISC SPARE TO: LOAD (KVA) 0.5 14.9 9.6 0.5 25 TOR 1.25 NEC 1.00 1.00 20%	LTS REC MECH MISC SPARE TOTAL OAD (KVA) 0.5 14.9 9.6 0.5 25.5 TOR 1.25 NEC 1.00 1.00 20%	OAD (KVA) 0.5 14.9 9.6 0.5 25.5 TOR 1.25 NEC 1.00 1.00 20%	LTS REC MECH MISC SPARE TOTAL LOAD (KVA) 0.5 14.9 9.6 0.5 25.5 240 TOR 1.25 NEC 1.00 1.00 20% 106	LTS REC MECH MISC SPARE TOTAL LOAD (KVA) 0.5 14.9 9.6 0.5 25.5 240 LINE-TO- TOR 1.25 NEC 1.00 1.00 20% 106 CONNEC	LTS REC MECH MISC SPARE TOTAL LOAD (KVA) 0.5 14.9 9.6 0.5 25.5 240 LINE-TO-LINE VOI TOR 1.25 NEC 1.00 1.00 20% 106 CONNECTED AMI	LTS REC MECH MISC SPARE TOTAL LOAD (KVA) 0.5 14.9 9.6 0.5 25.5 240 LINE-TO-LINE VOLTS TOR 1.25 NEC 1.00 1.00 20% 106 CONNECTED AMPS	LTS

	PACKAGED POWER SUPPLY:	PP202														
	PRIMARY VOLTAGE:	480	480 PRIMARY OC DEV							PER MANUF.			ENCLOS	URE:	NEMA 3R	
	SECONDARY VOLTAGE:	240/120		SECOND	ARY OC	DEVIC	E:			PE	R MANU	F.	MOUNTI	NG:	SURFACE	
	PHASE:	1		PRIMAR	Y AIC RA	TING ((KA)):		14			LOCATION	ON:	LOWER SITE	
	TRANSFORMER KVA:	15		SECOND	ARY AIC	RATIN	1G (KA):	10					ADULT HANDLING	
CKT		CO	NNECTE	D LOAD (VA)	OCF	•		OCF)	CO	NNECTE	D LOAD (VA)		CKI
NO.	DESCRIPTION	LTS	REC	MECH	MISC	AMPS	Р		AMPS	Р	LTS	REC	MECH	MISC	DESCRIPTION	NO.
1	SPARE CIRCUIT BREAKER					20	1	Α	30	2			2,071		RADIANT HEATERS	2
3	RCPT; ADULT HANDLING		360			20	1	В	30	_			2,071		TO OBJECT THE POPULATION	4
5	SPARE CIRCUIT BREAKER					20	1	Α	30	2			2,071		RADIANT HEATERS	6
7	SPARE CIRCUIT BREAKER					20	1	В	30				2,071		RADIANT HEATERS	8
9								Α								10
11								В								12
						LOA	AD S	SUI	MMARY	<u> </u>						
		LTS	REC	MECH	MISC	SPAF	₹E	T	OTAL						PHASE BALANCE	
100	NECTED LOAD (KVA)	0.0	0.4	8.3	0.0				8.6		240	LINE-TO	LINE VO	LTS	PHASE A (KVA)	4
EΝ	IAND FACTOR	1.25	NEC	1.00	1.00	20%	,				36	CONNE	CTED AM	PS	PHASE B (KVA)	5
)ES	SIGN LOAD (KVA)	0.0	0.4	8.3	0.0	1.7			10.4		43	DESIGN	IAMPS			•

 $\underline{\mathsf{KEYED}\,\mathsf{NOTES}}_{:}\left\langle \mathsf{X}\right\rangle$

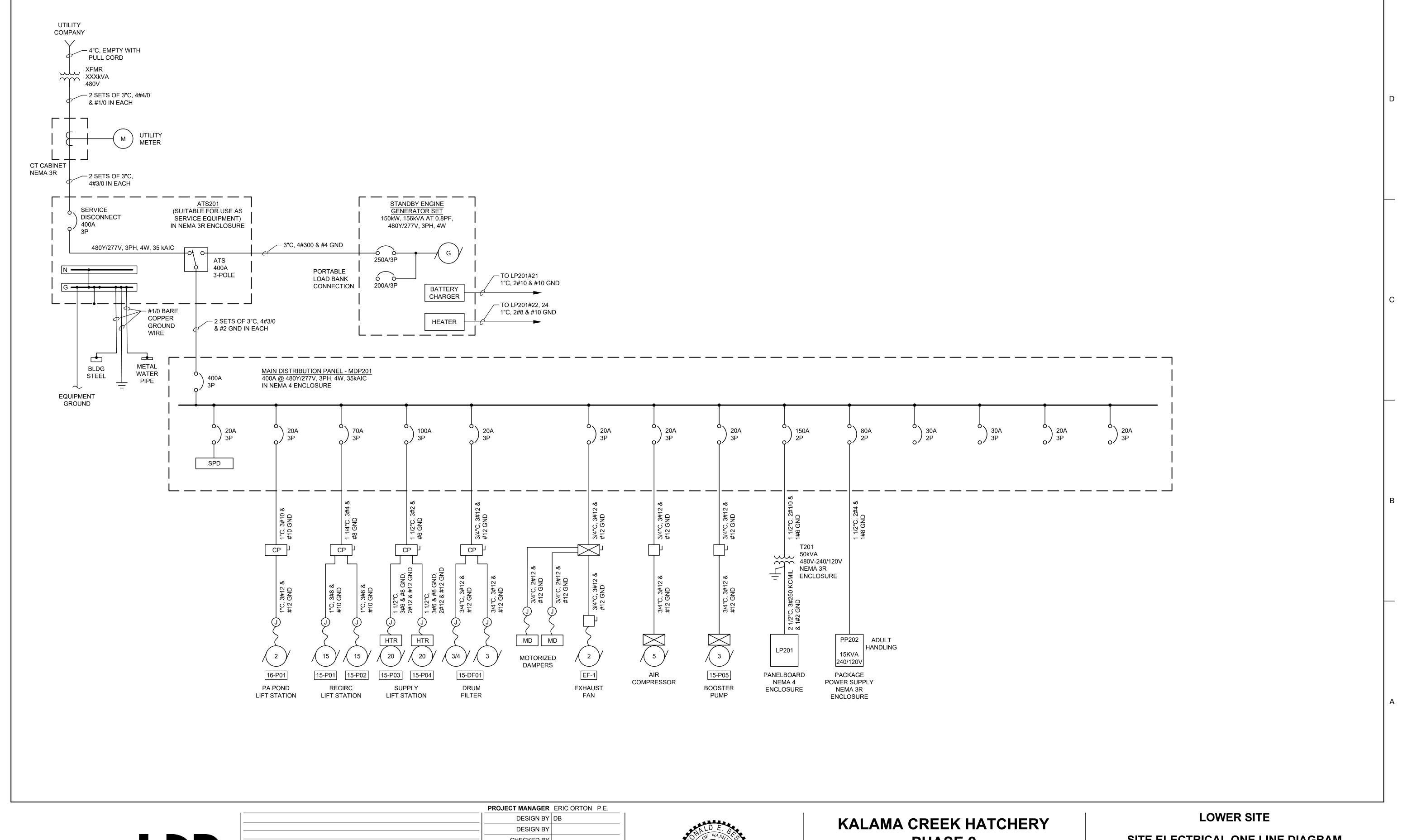
 GFEPCI TYPE CIRCUIT BREAKER. REFERENCE SPECIFICATION 40 41 13.

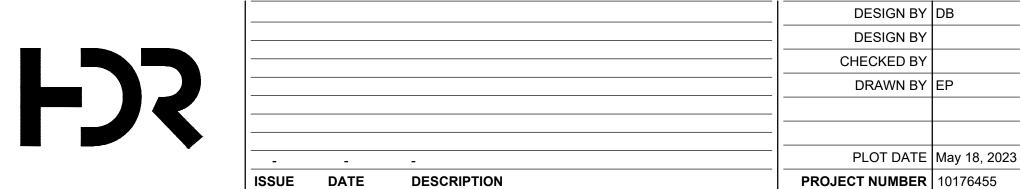


KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880 LOWER SITE
ELECTRICAL SCHEDULES







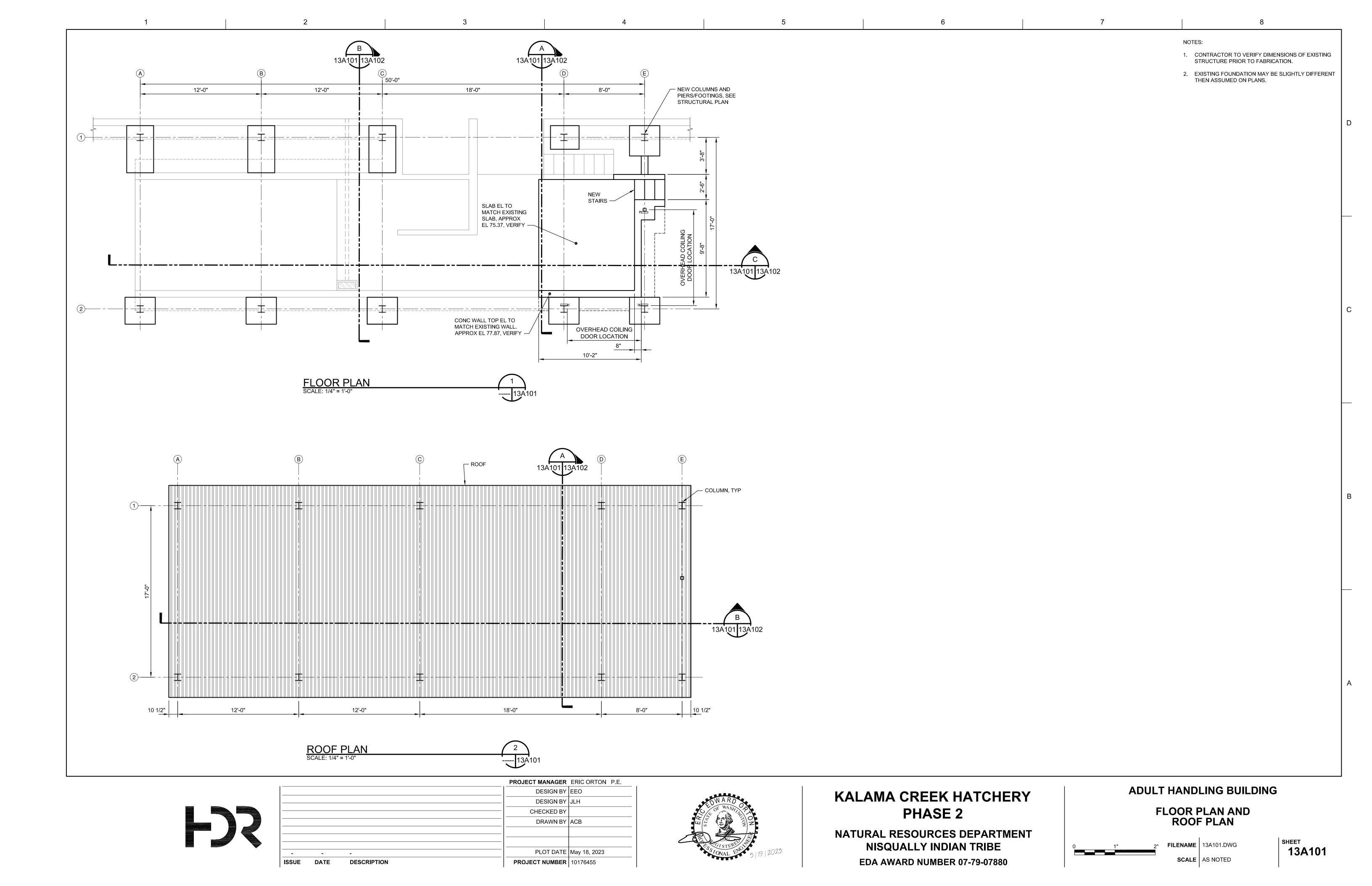


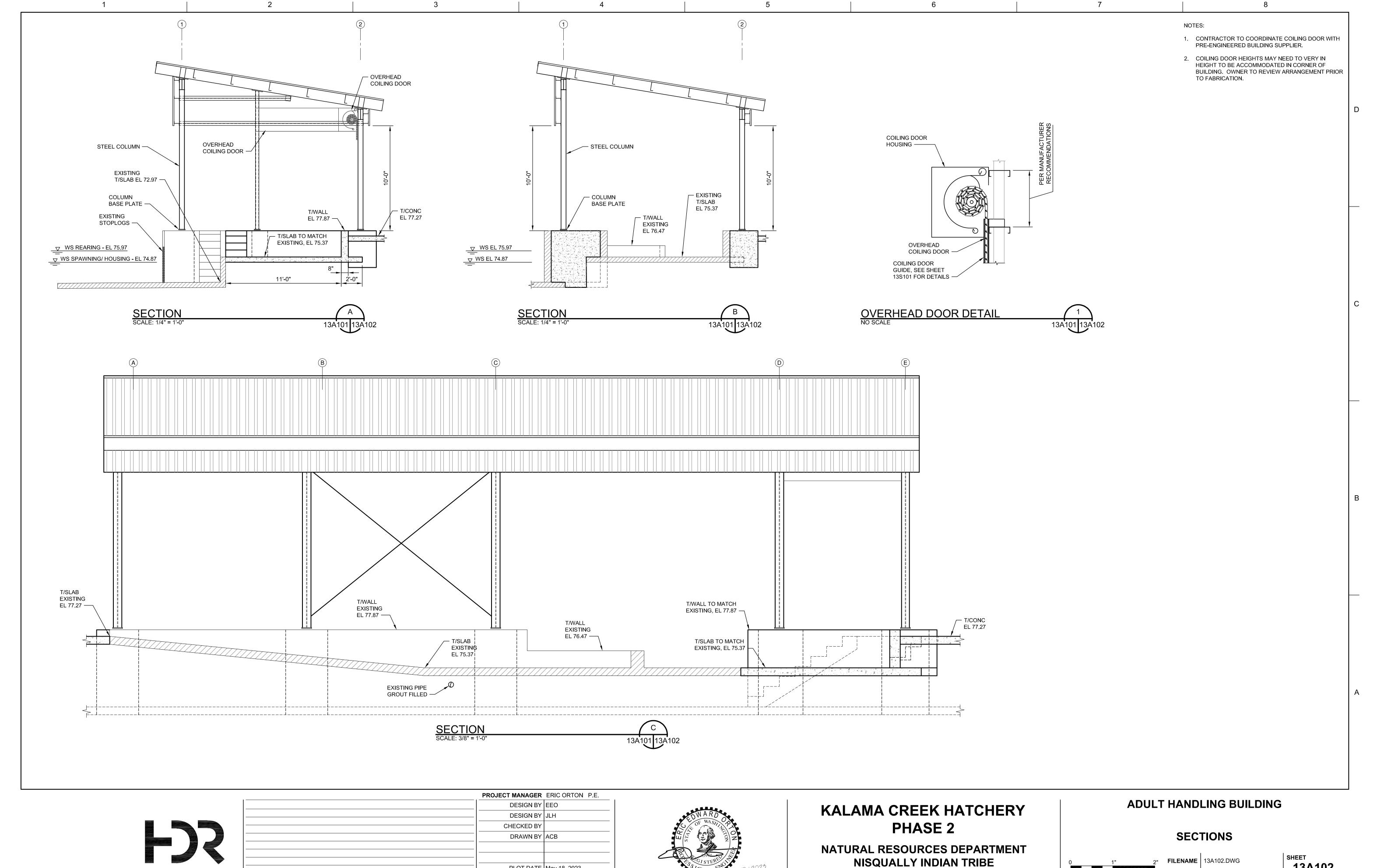
PHASE 2

NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**

SITE ELECTRICAL ONE LINE DIAGRAM







PLOT DATE May 18, 2023

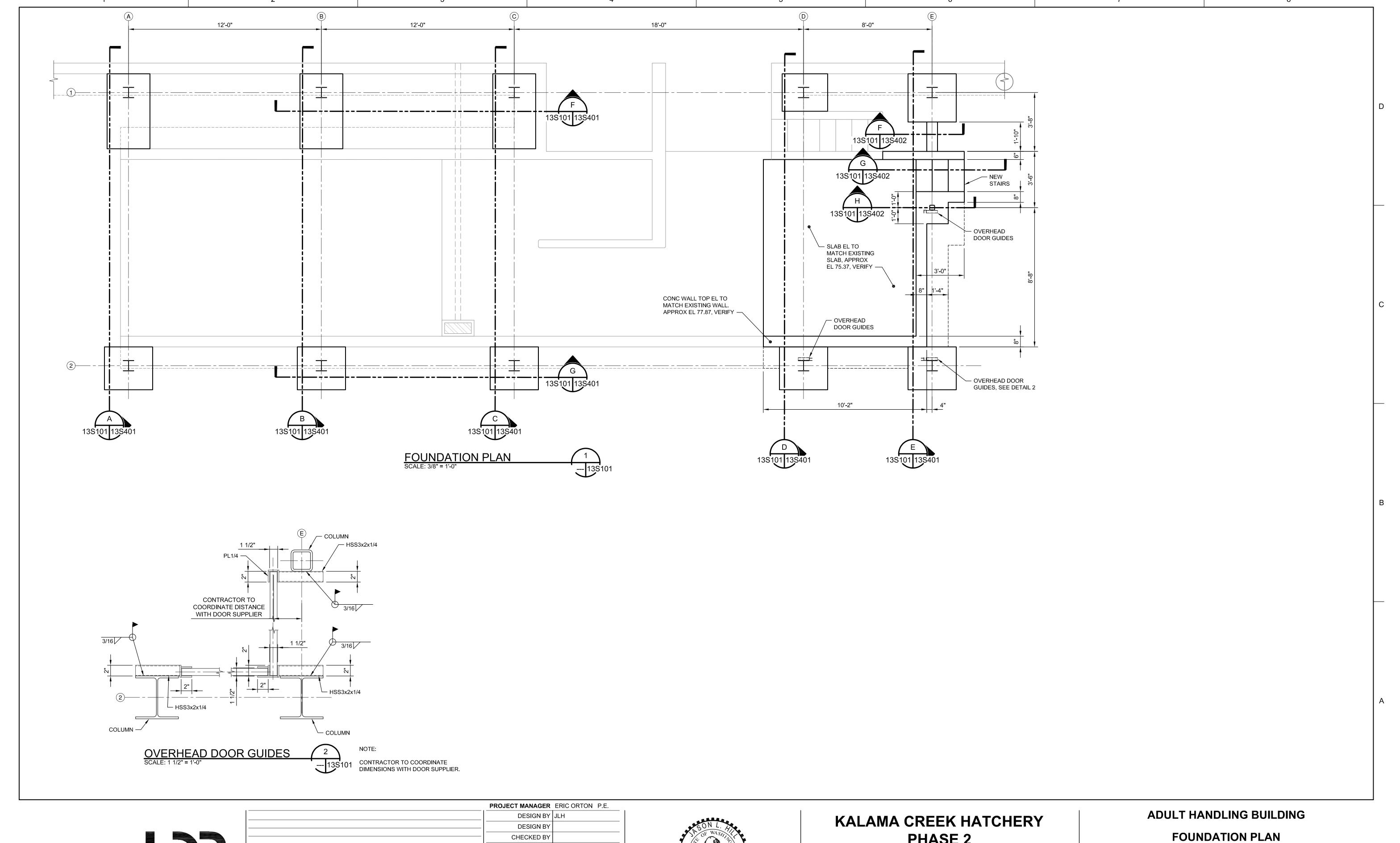
PROJECT NUMBER 10176455

DATE

DESCRIPTION

13A102

SCALE AS NOTED



DRAWN BY ACB PLOT DATE | May 18, 2023 PROJECT NUMBER 10176455 DATE DESCRIPTION



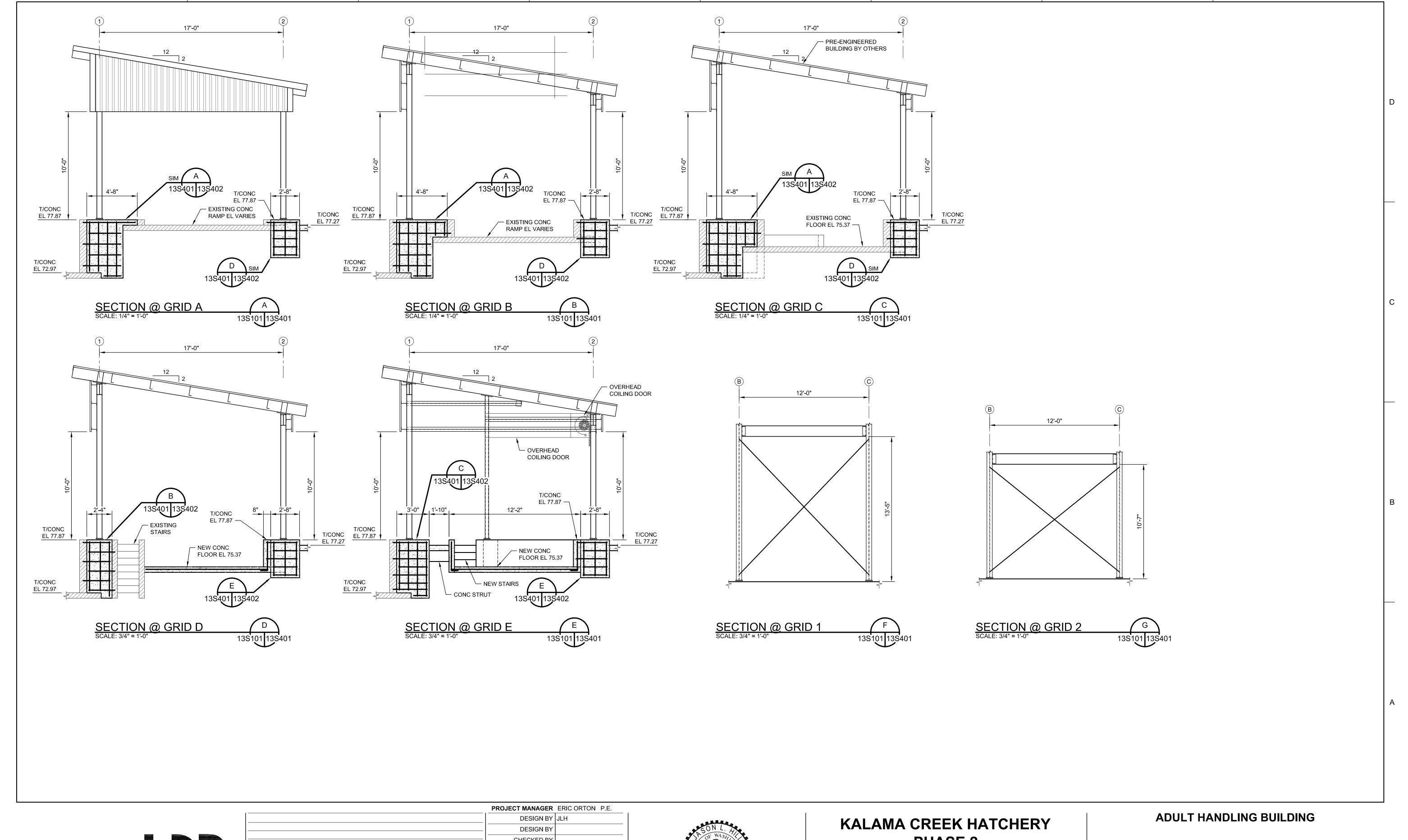
PHASE 2

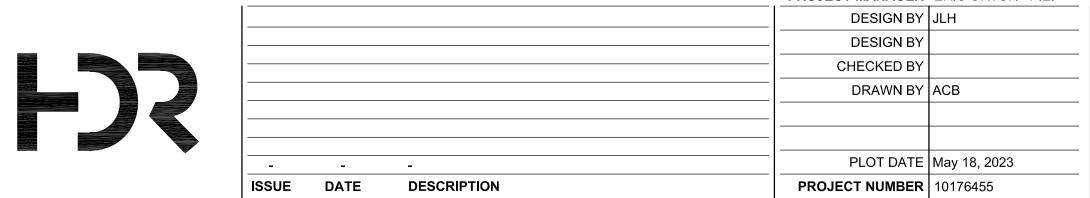
NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**

FOUNDATION PLAN AND DETAILS

FILENAME 13S101.DWG SCALE AS NOTED

13S101







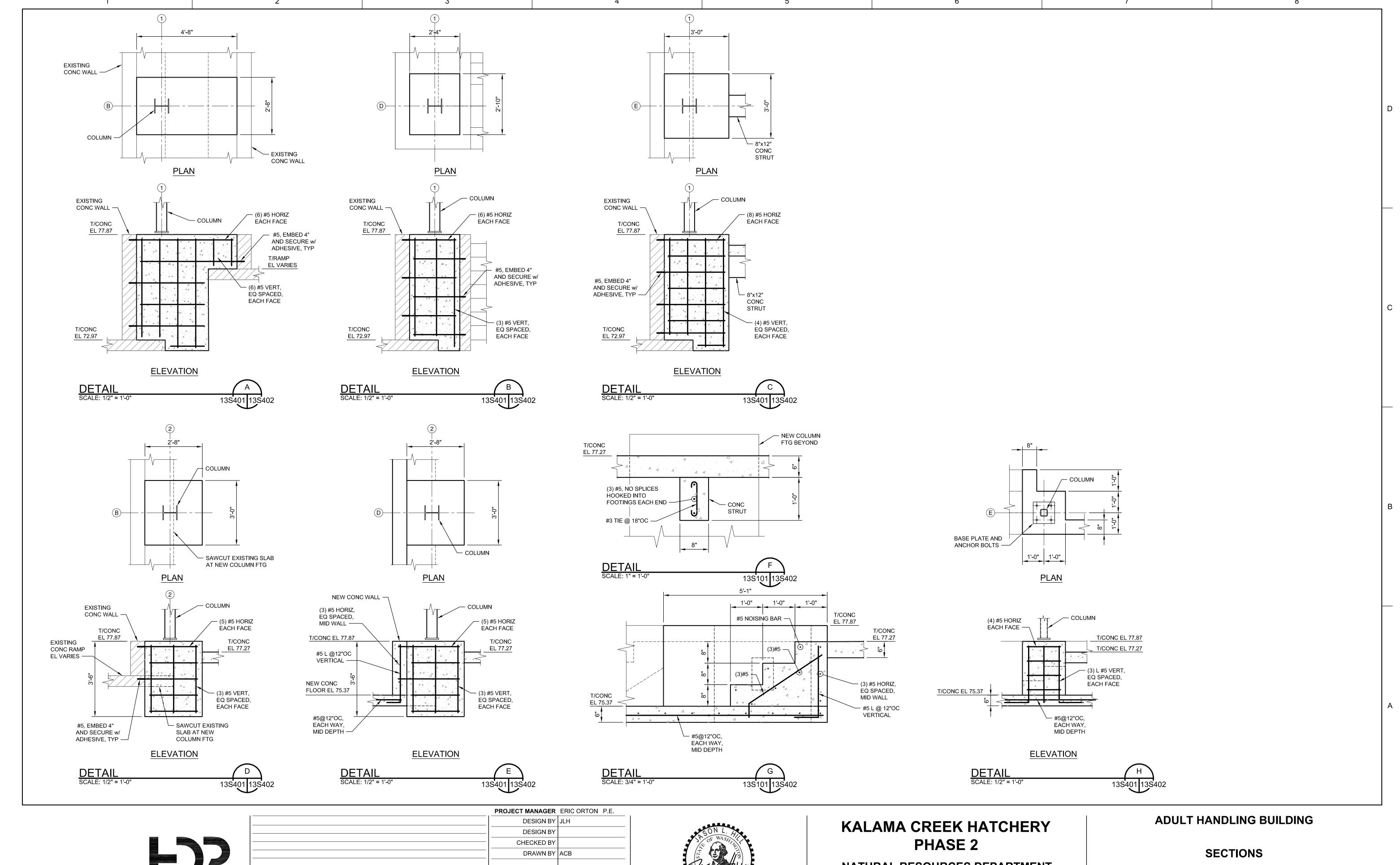
PHASE 2

NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**

SECTIONS

FILENAME 13S401.DWG SCALE AS NOTED

13S401



PLOT DATE | May 18, 2023 DATE DESCRIPTION PROJECT NUMBER | 10176455

ISSUE

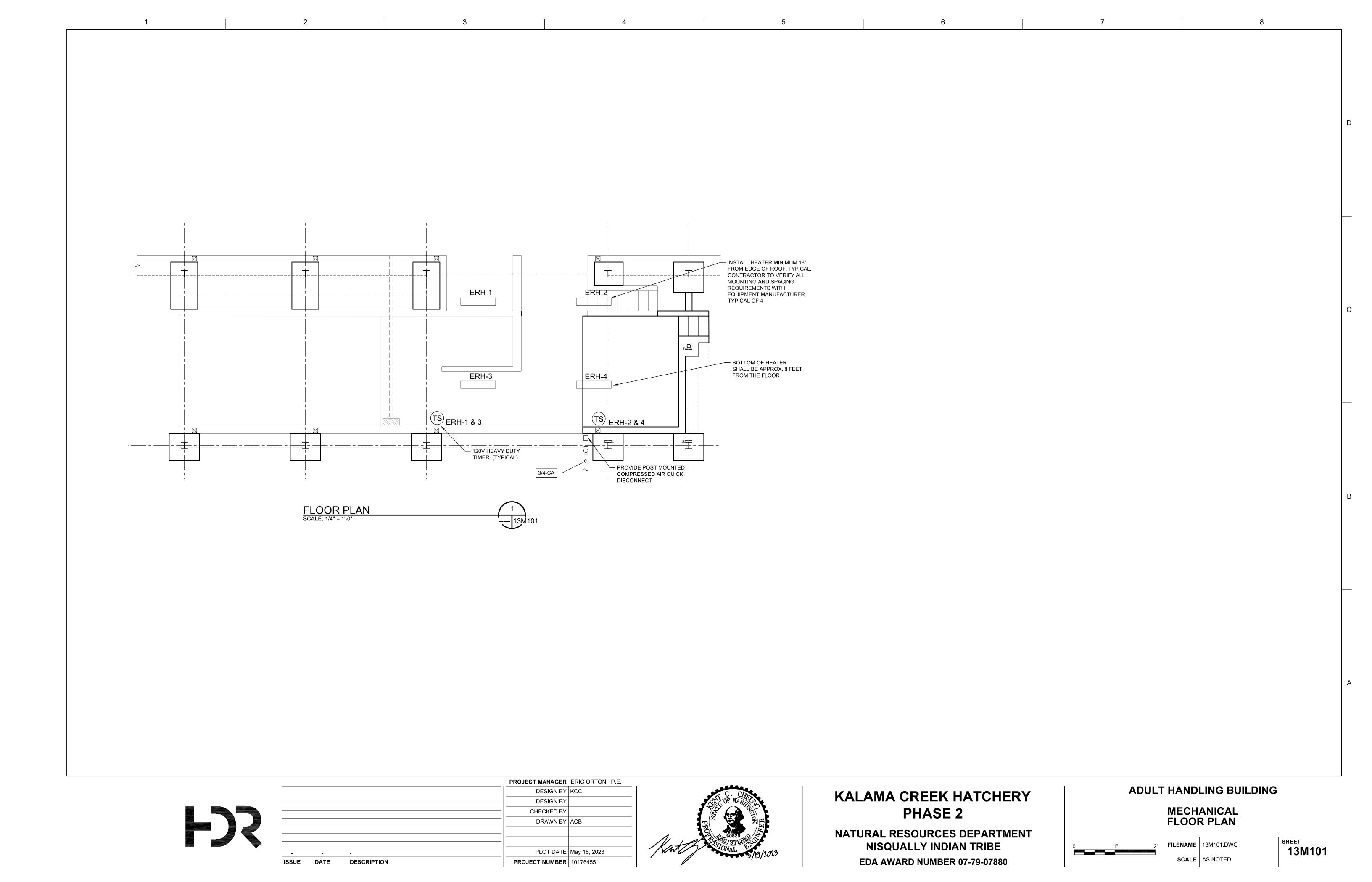


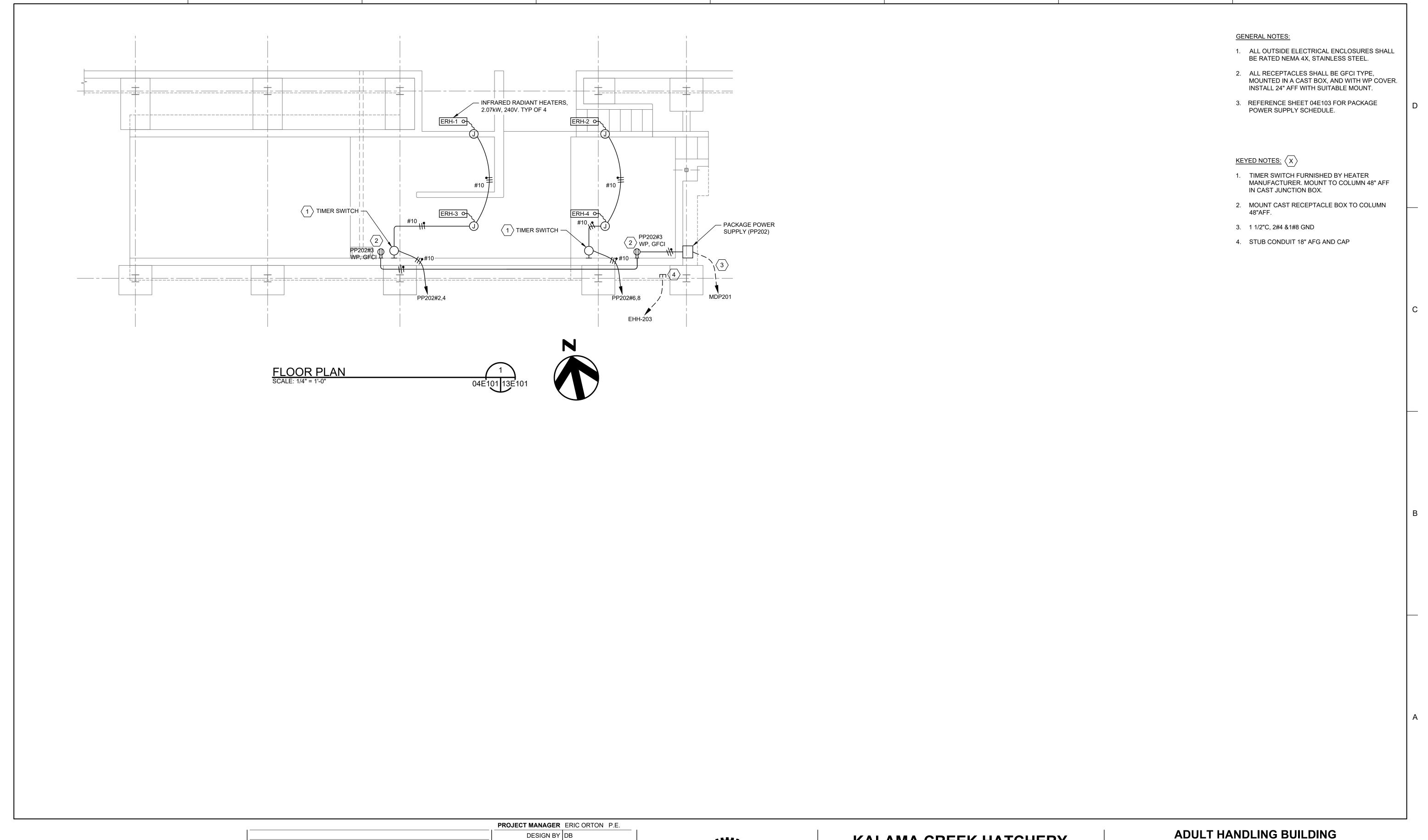
NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**

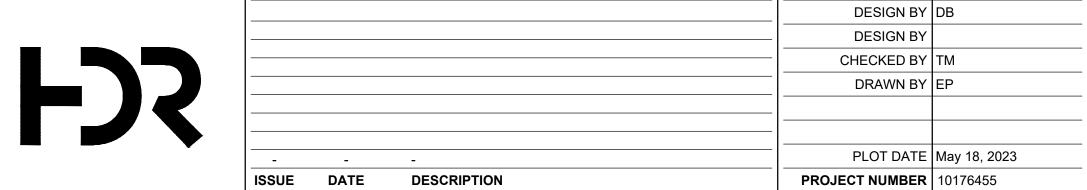


SCALE AS NOTED

13\$402









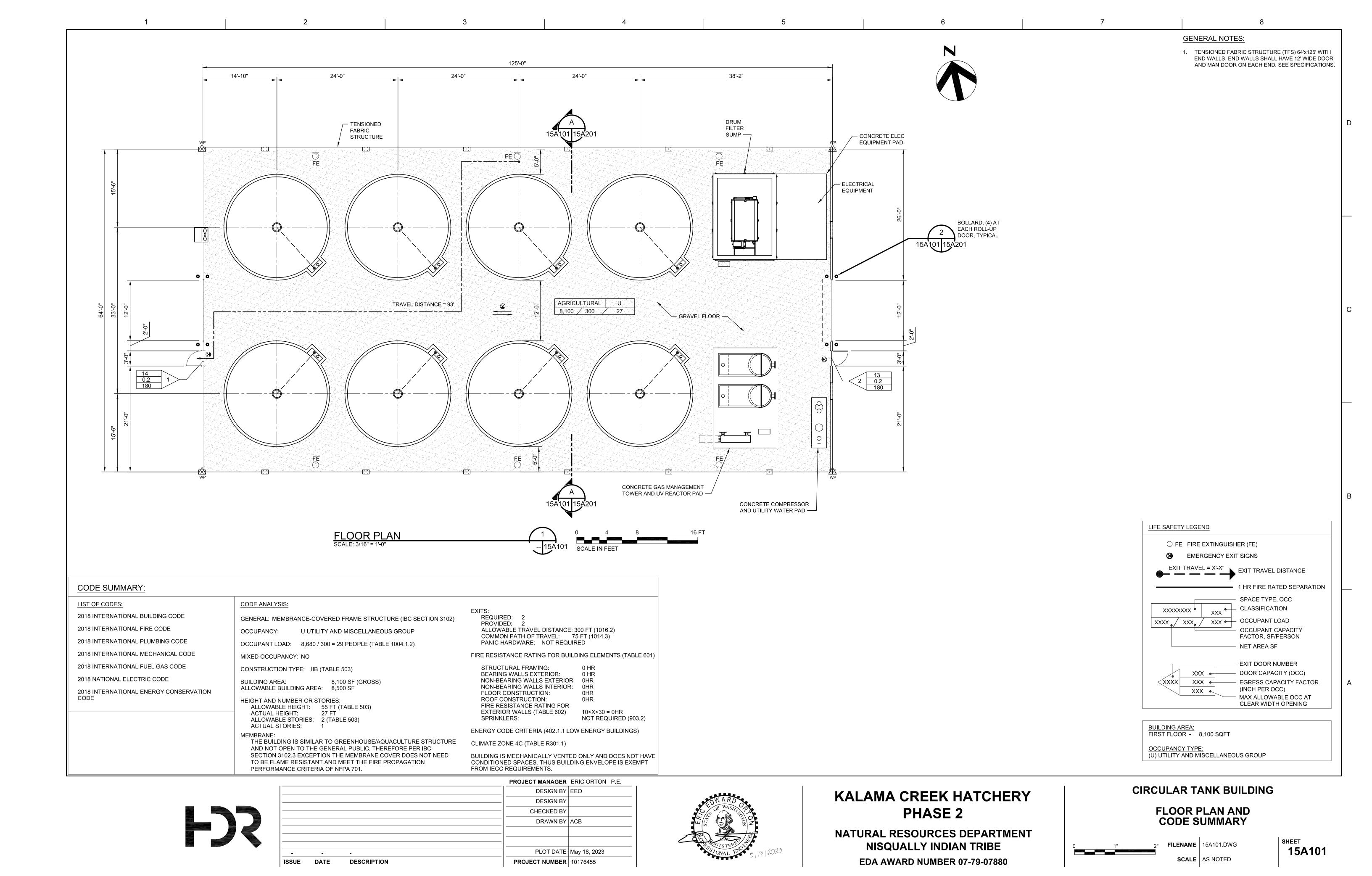
KALAMA CREEK HATCHERY PHASE 2

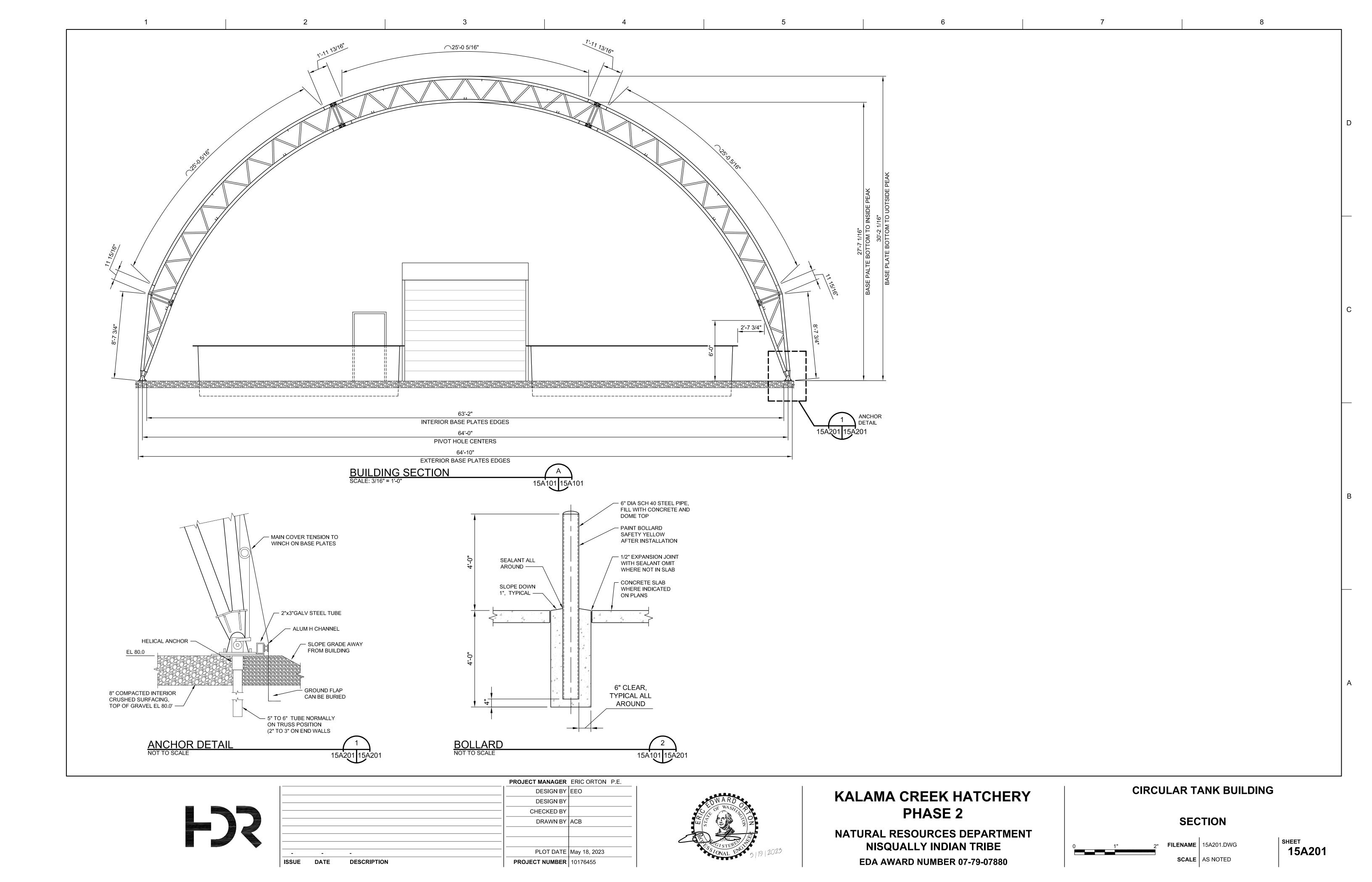
NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**

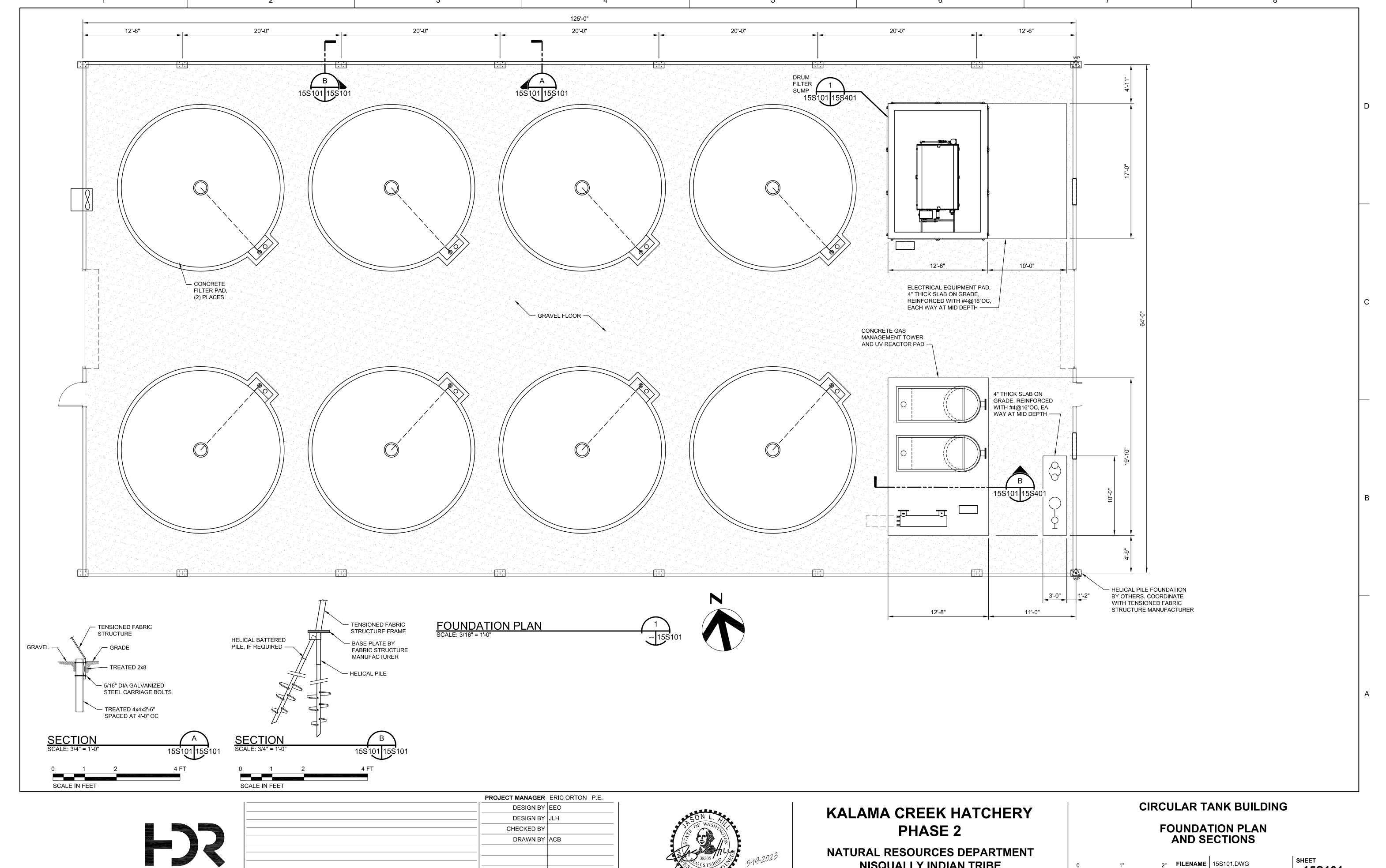
ELECTRICAL PLAN



FILENAME 13E101.DWG SCALE AS NOTED







PLOT DATE May 18, 2023

PROJECT NUMBER 10176455

ISSUE

DATE

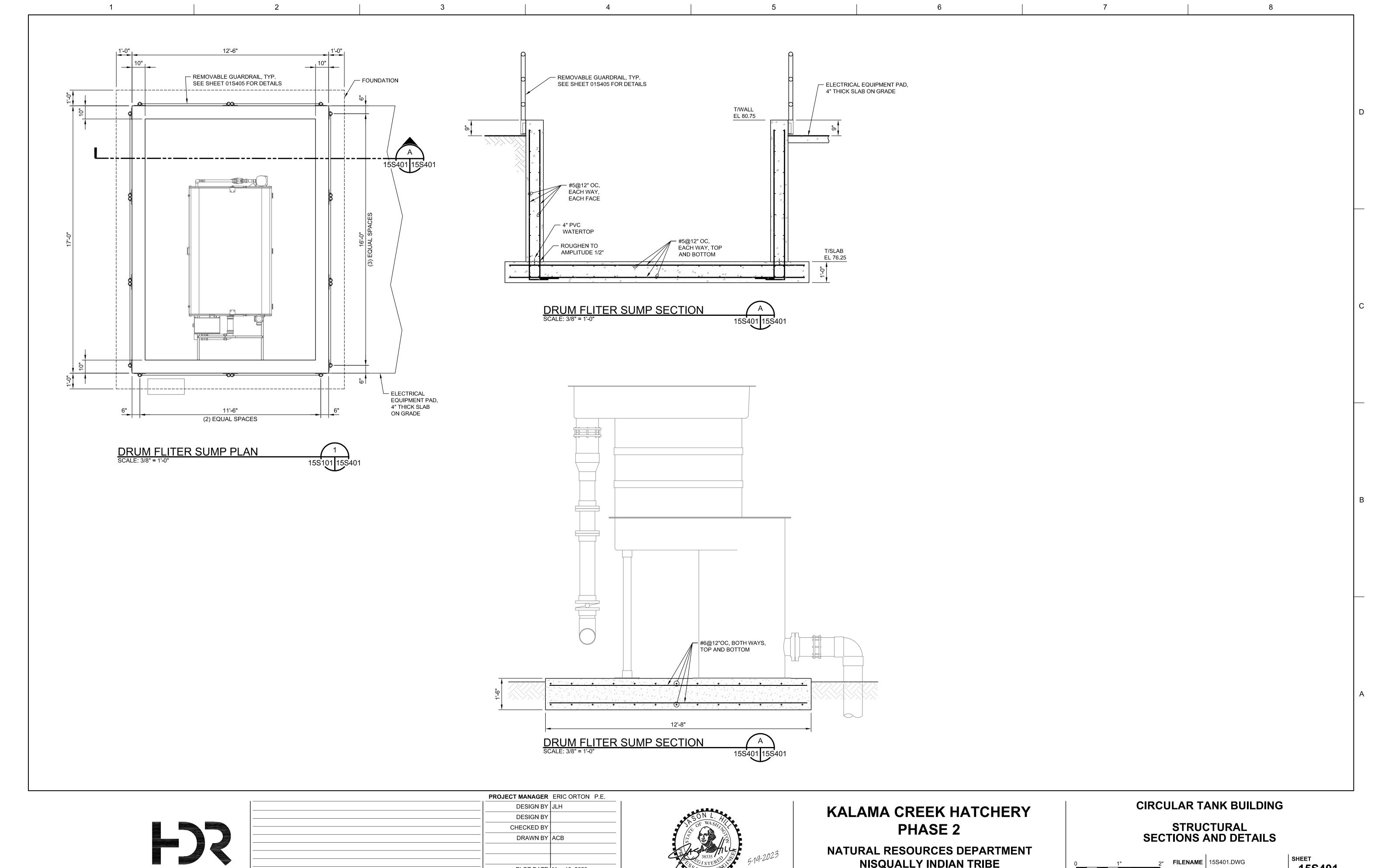
DESCRIPTION

FILENAME 15S101.DWG SCALE AS NOTED

NISQUALLY INDIAN TRIBE

EDA AWARD NUMBER 07-79-07880

SHEET **15S101**



PLOT DATE May 18, 2023

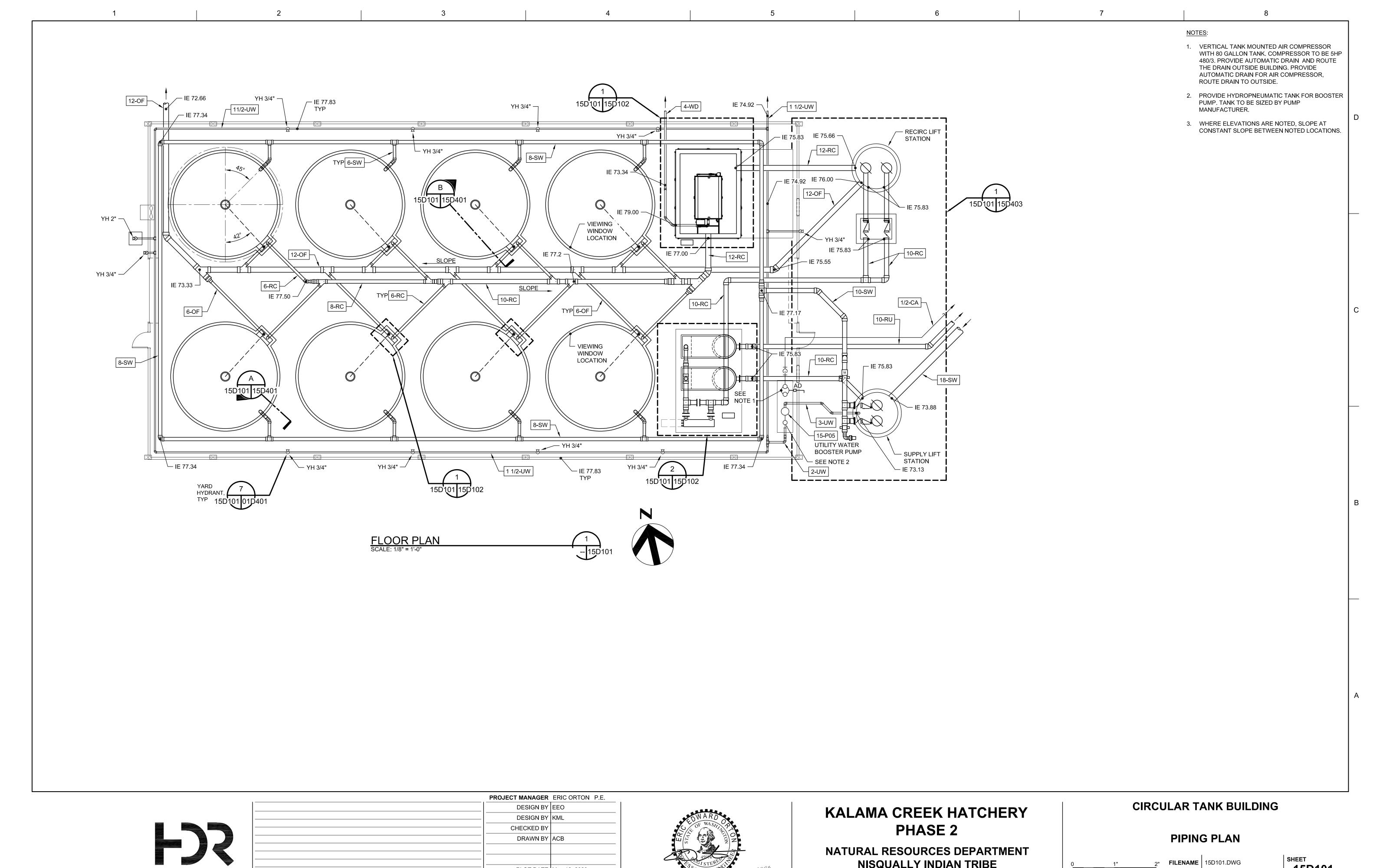
PROJECT NUMBER 10176455

DATE

DESCRIPTION

FILENAME 15S401.DWG 15S401 SCALE AS NOTED

NISQUALLY INDIAN TRIBE



PLOT DATE | May 18, 2023

PROJECT NUMBER 10176455

DATE

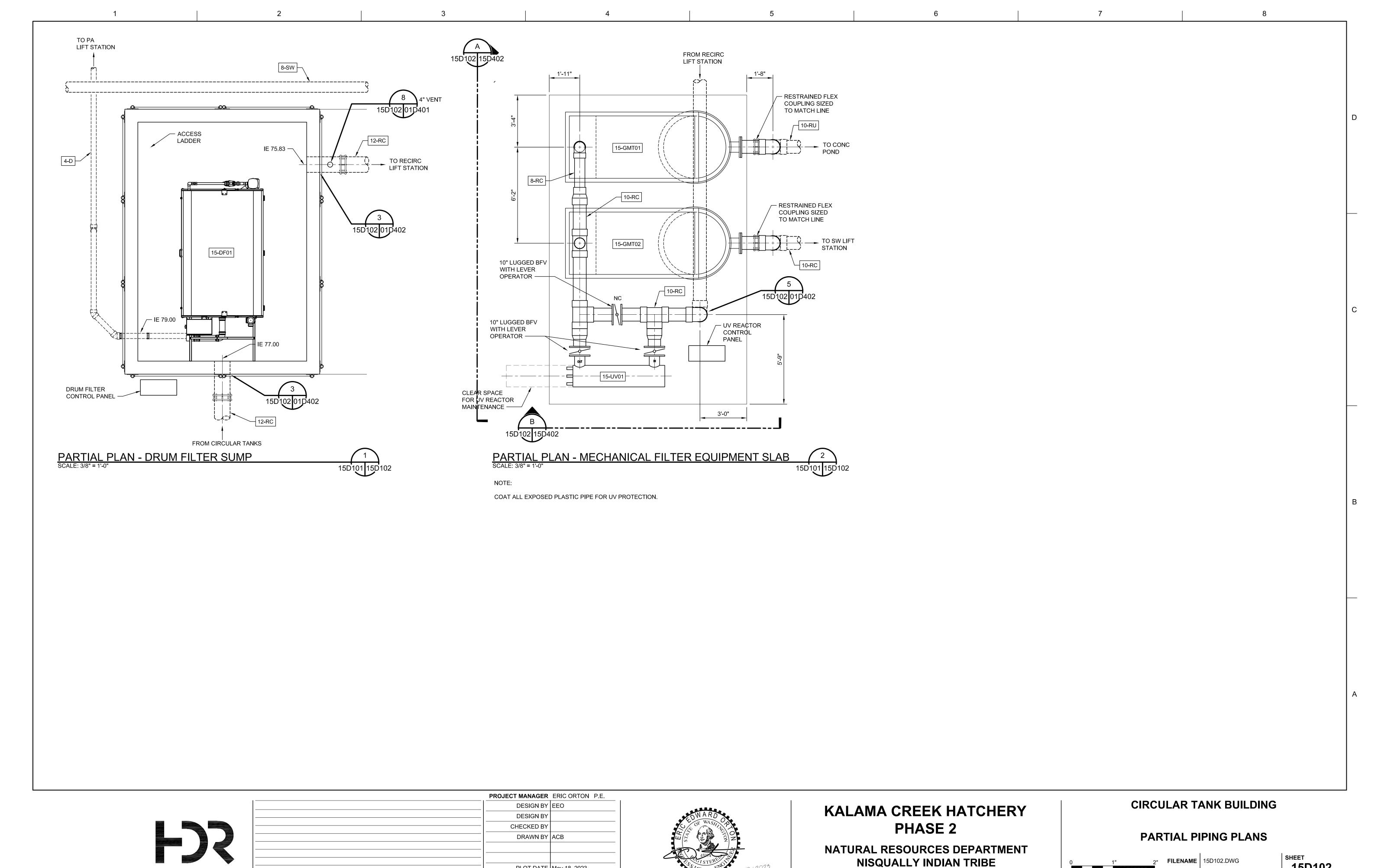
DESCRIPTION

15D101

FILENAME 15D101.DWG

SCALE AS NOTED

NISQUALLY INDIAN TRIBE



PLOT DATE May 18, 2023

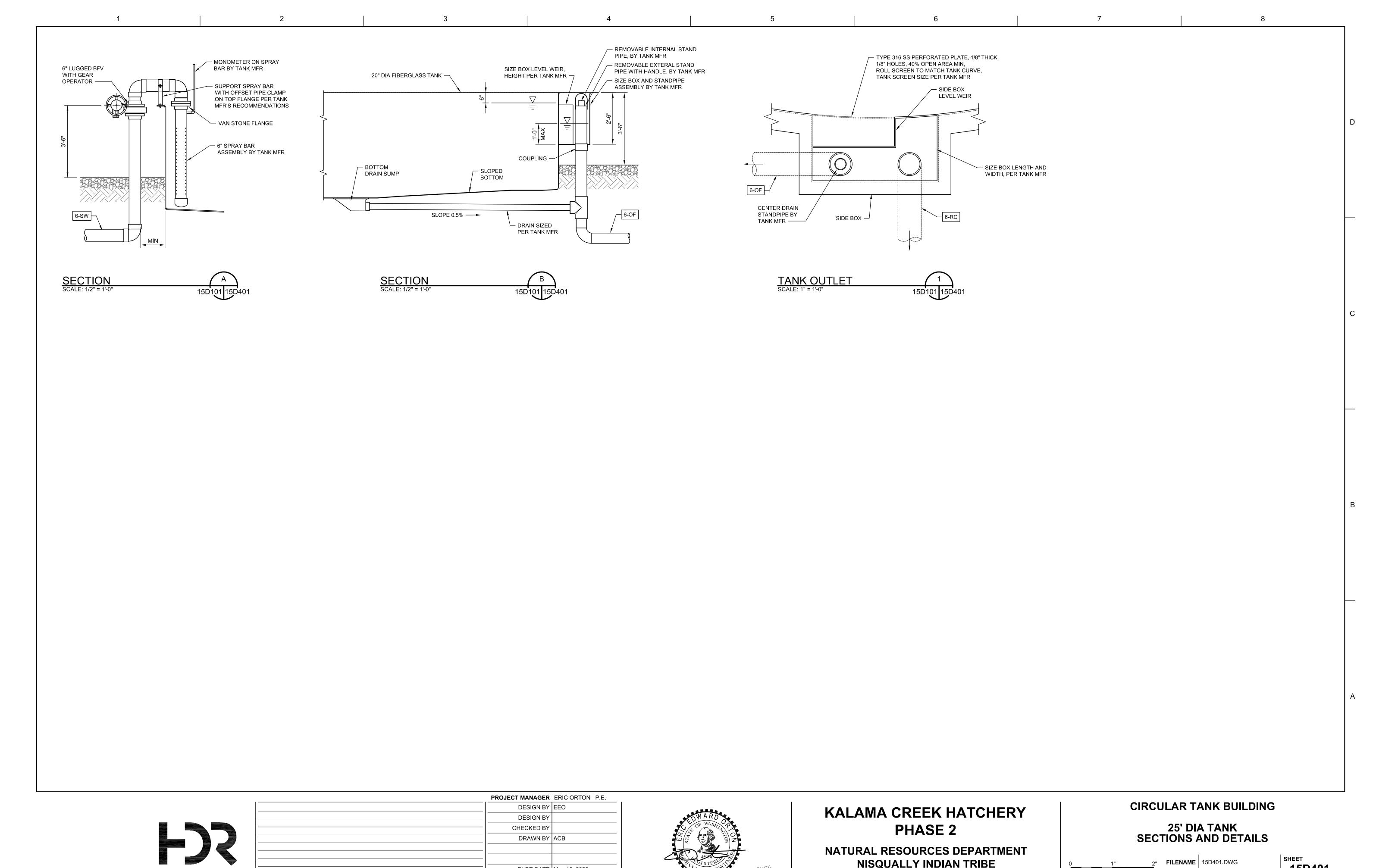
PROJECT NUMBER 10176455

DATE

DESCRIPTION

15D102

SCALE AS NOTED



PLOT DATE May 18, 2023

PROJECT NUMBER 10176455

DATE

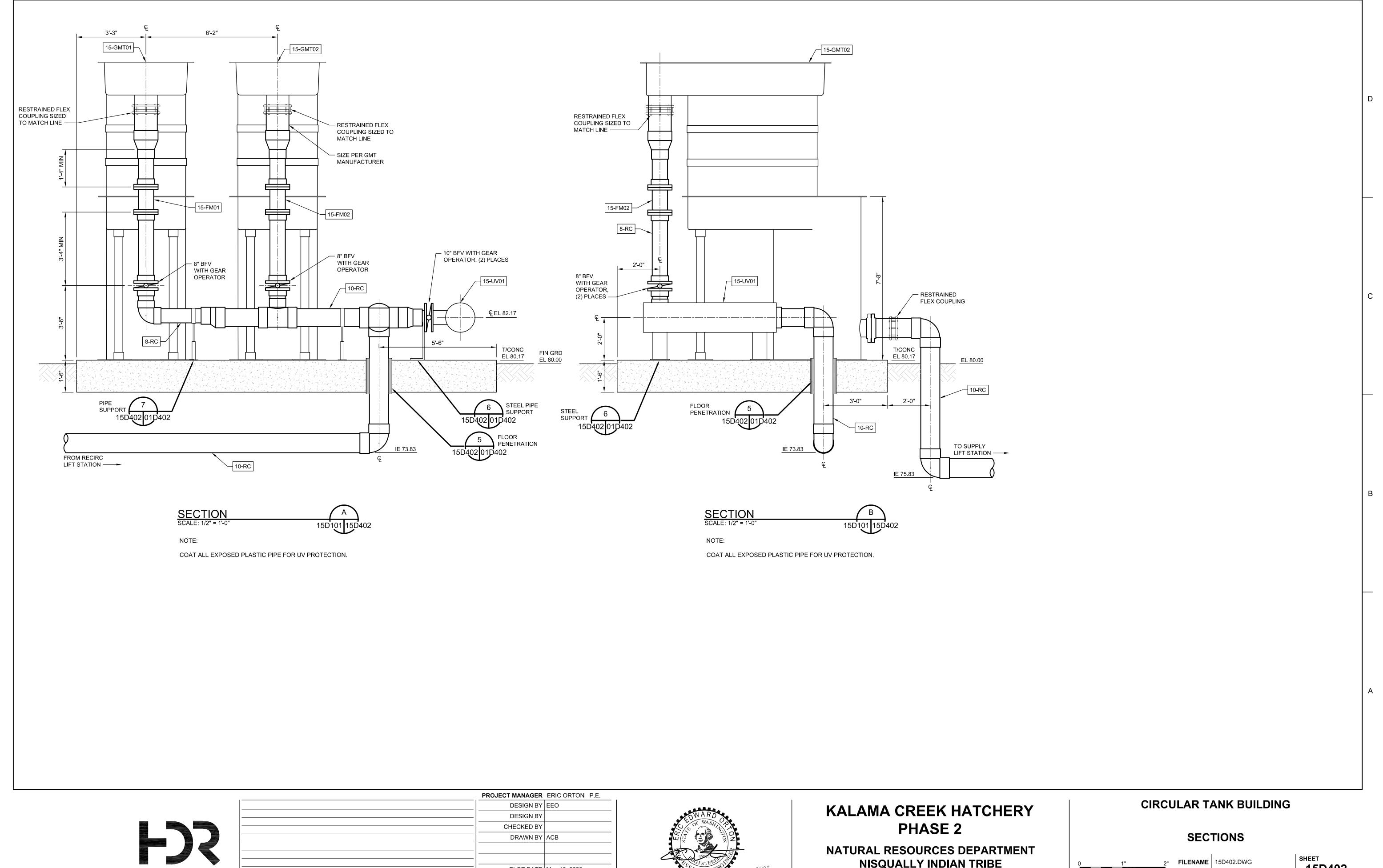
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FILENAME 15D401.DWG SCALE AS NOTED

NISQUALLY INDIAN TRIBE

EDA AWARD NUMBER 07-79-07880

15D401



PLOT DATE | May 18, 2023

PROJECT NUMBER 10176455

DATE

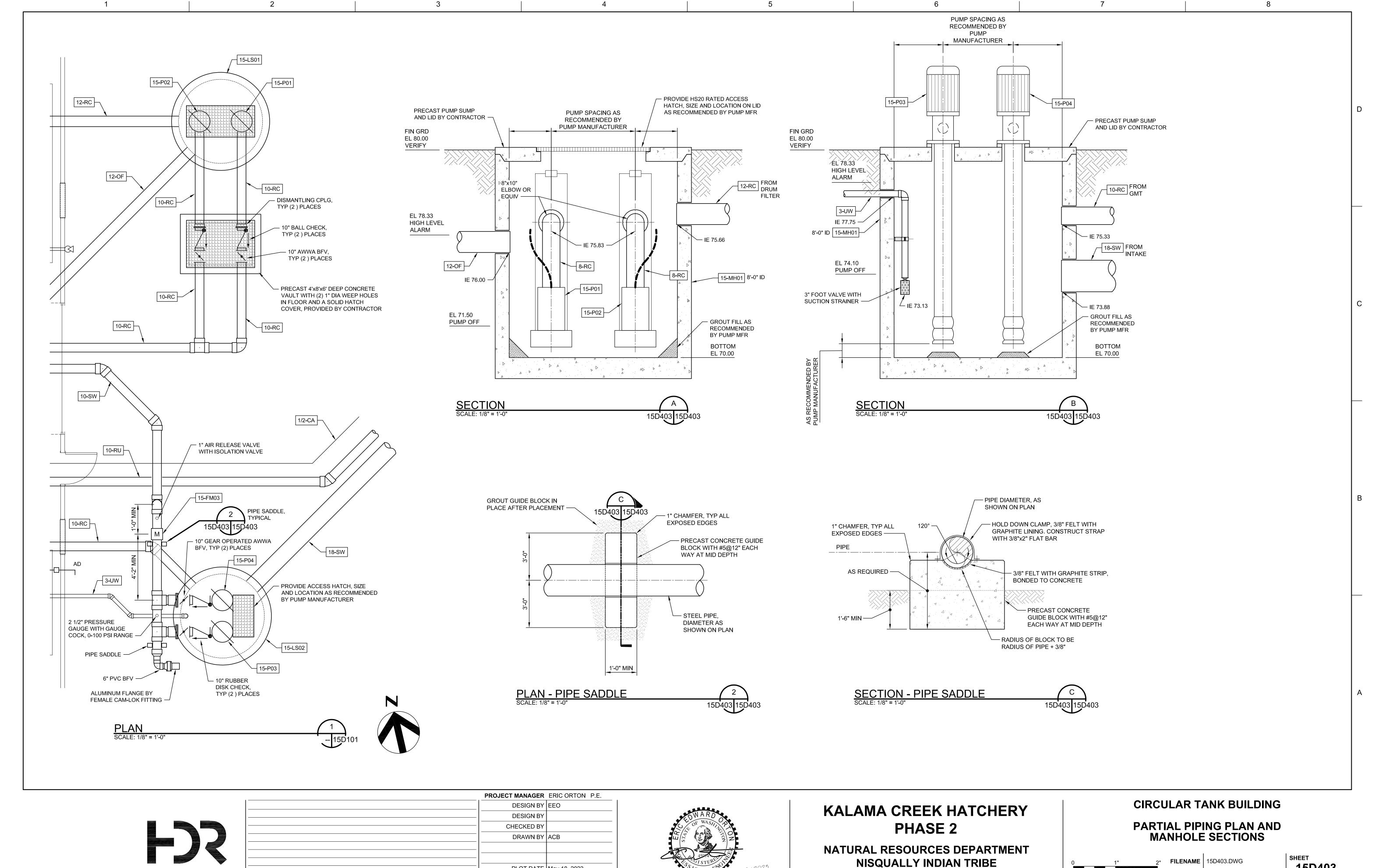
DESCRIPTION

NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**

FILENAME 15D402.DWG

SCALE AS NOTED

15D402



PLOT DATE | May 18, 2023

PROJECT NUMBER | 10176455

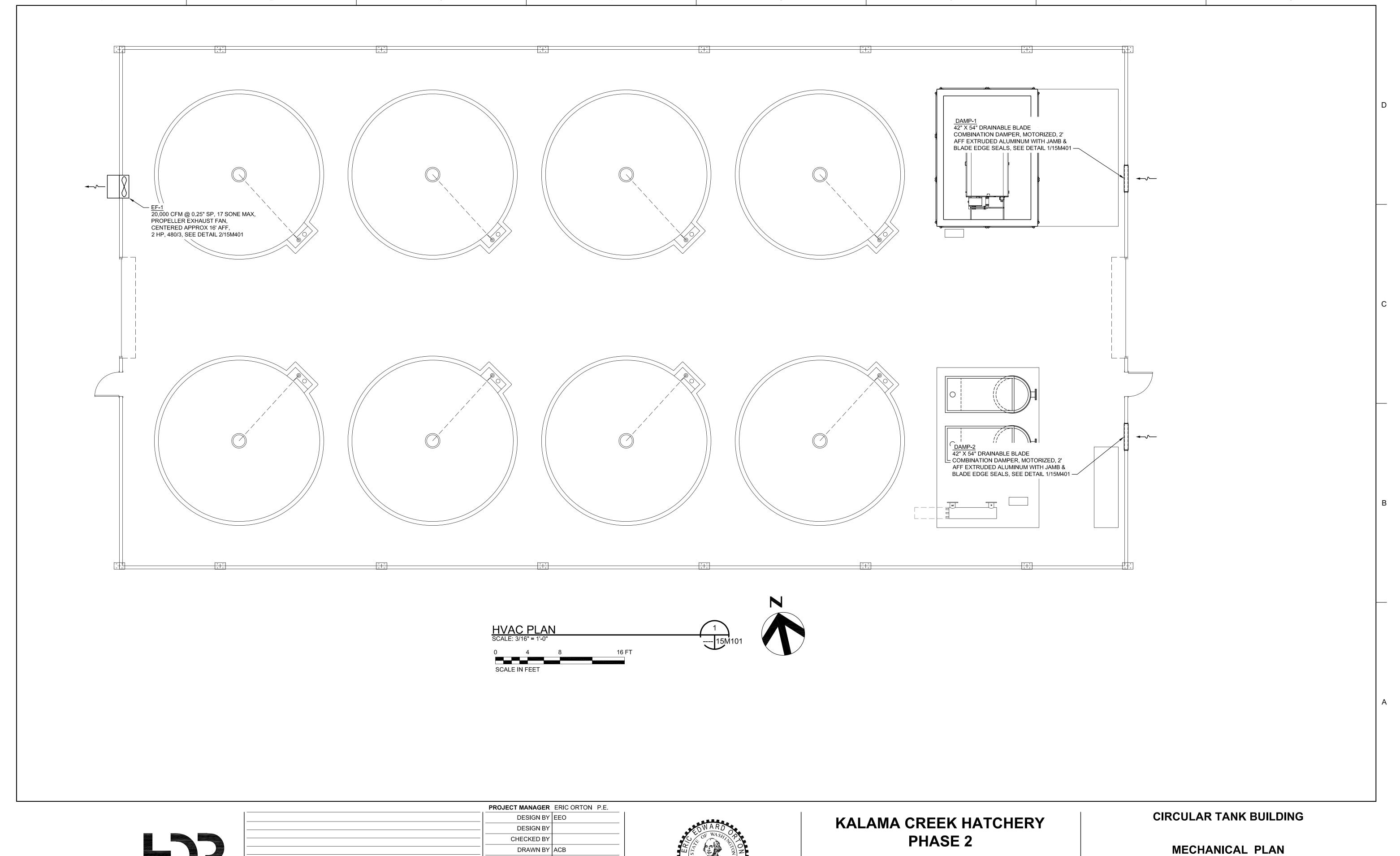
ISSUE

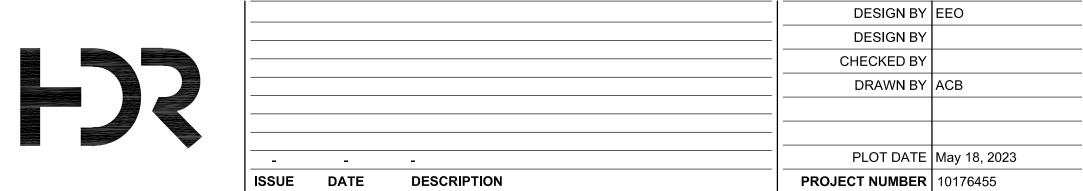
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DESCRIPTION

15D403

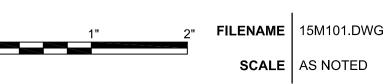
SCALE AS NOTED



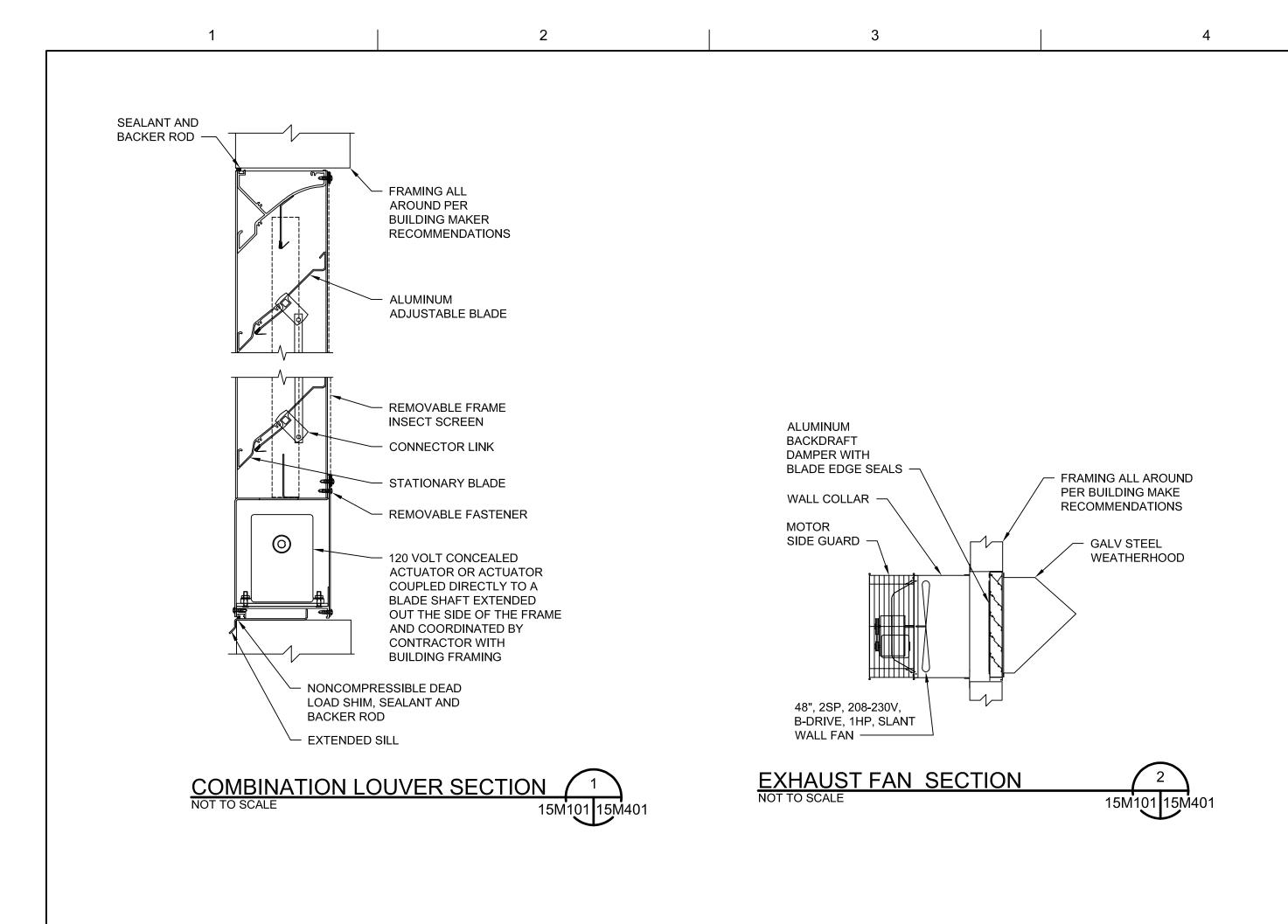




NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**



15M101



| DESIGN BY | EEO | DESIGN BY



KALAMA CREEK HATCHERY PHASE 2

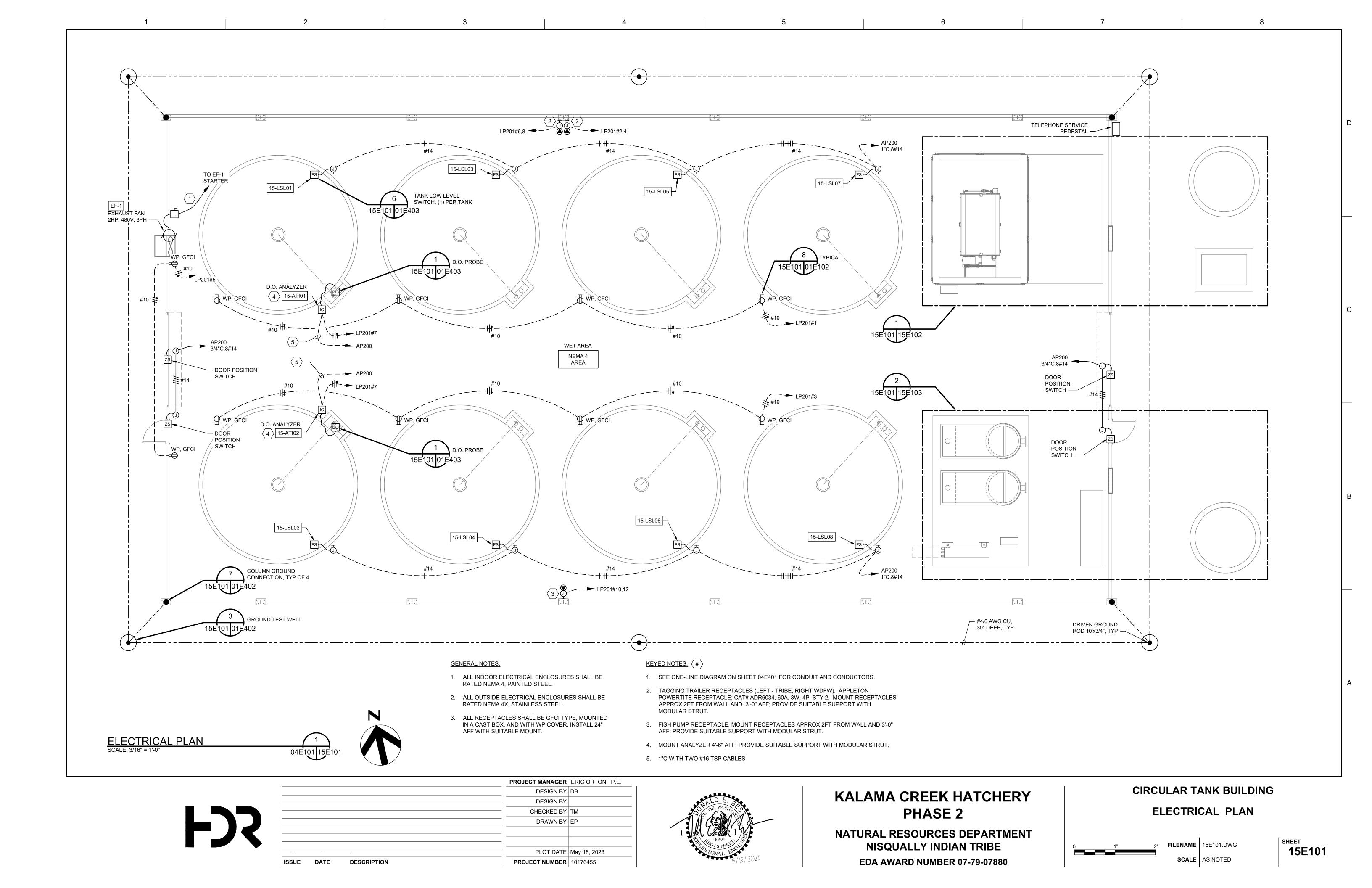
NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880

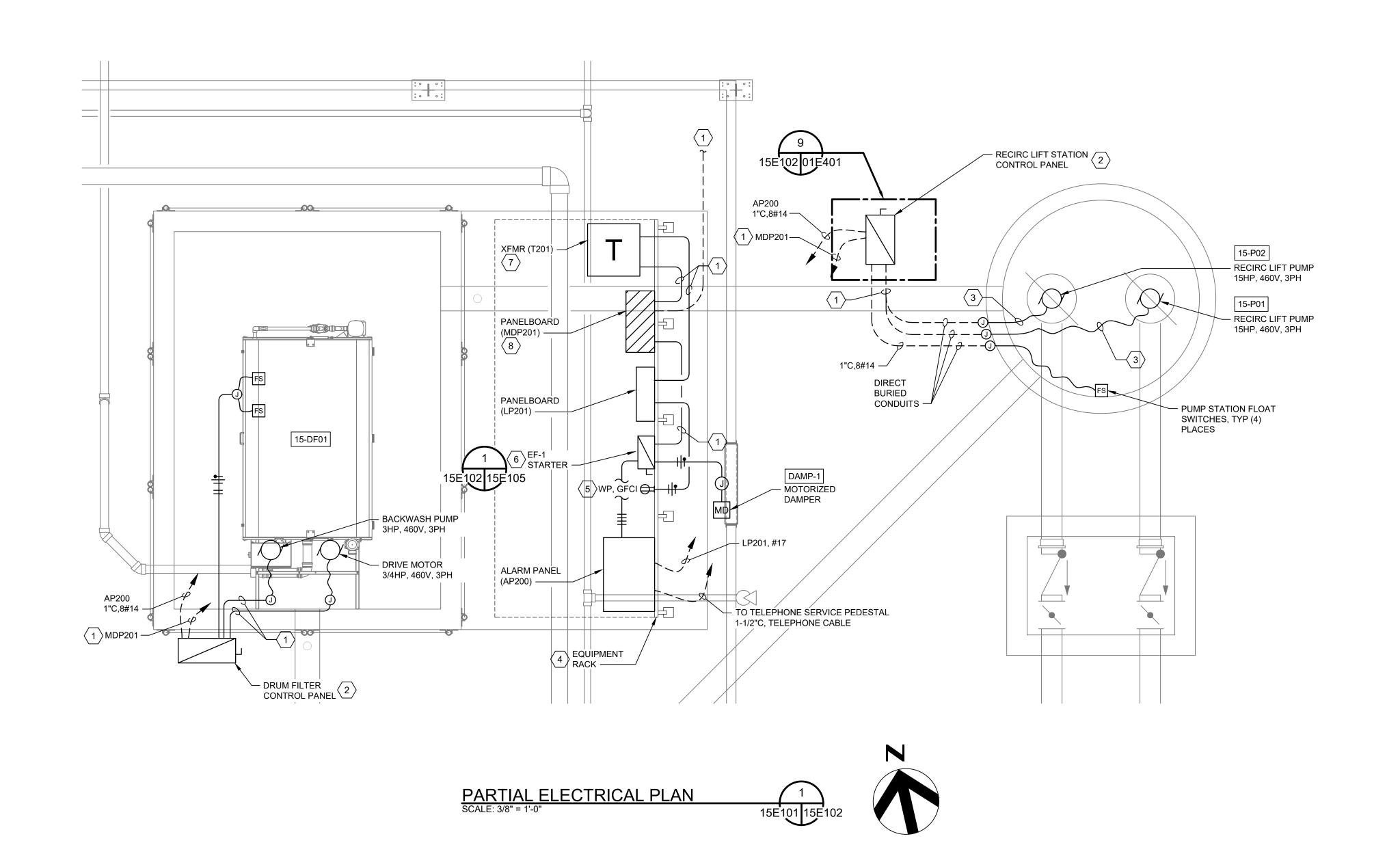
POLLUTION ABATEMENT POND

SECTIONS



15M401



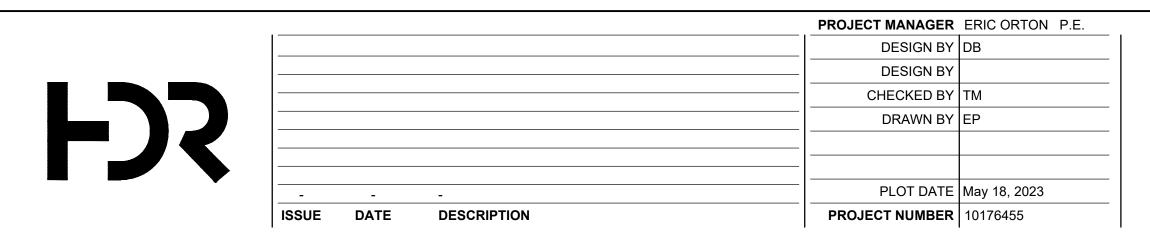


GENERAL NOTES:

- ALL INDOOR ELECTRICAL ENCLOSURES SHALL BE RATED NEMA 4, PAINTED STEEL. UNLESS NOTED OTHERWISE.
- 2. ALL OUTSIDE ELECTRICAL ENCLOSURES SHALL BE RATED NEMA 4X, STAINLESS STEEL.
- ALL RECEPTACLES SHALL BE GFCI TYPE, MOUNTED IN A CAST BOX, AND WITH W.P. COVER. INSTALL 24" AFF WITH SUITABLE MOUNT.

 $\underline{\mathsf{KEYED}\,\mathsf{NOTES}}\!\left\langle \mathsf{X}\right\rangle$

- SEE ONE-LINE DIAGRAM ON SHEET 04E401 FOR CONDUIT AND CONDUCTORS.
- 2. MANUFACTURER SUPPLIED CONTROLS.
- 3. MANUFACTURER SUPPLIED CABLES.
- 4. ARRANGE RACK-MOUNTED EQUIPMENT AS REQUIRED TO SUITE SITE CONDITIONS. SEE DETAIL 9 ON SHEET 01E401 FOR MODULAR SUPPORTS.
- 5. MOUNT RECEPTACLE ON EQUIPMENT RACK.
- 6. PROVIDE COMBINATION MOTOR STARTER (SIZE NEMA 1) WITH LOCKABLE DISCONNECT, CONTROL POWER TRANSFORMER, AND CONTROL SWITCHES IN NEMA 4 ENCLOSURE. SEE 15E105 FOR CONTROL SCHEMATICS
- DRY-TYPE TRANSFORMER WITH NEMA 3R ENCLOSURE.
- 8. SEE SHEET 04E101 FOR FEED TO MDP201.





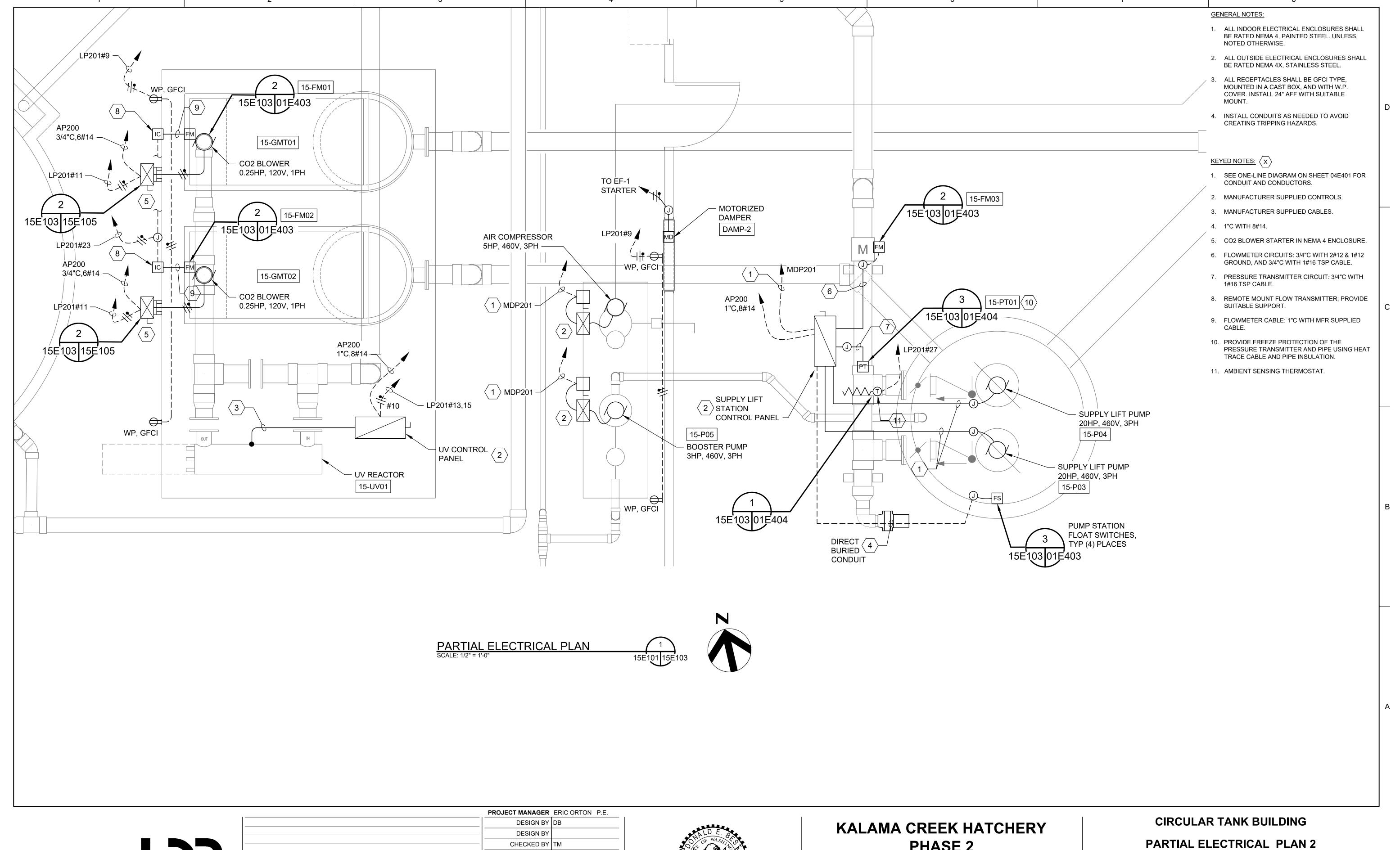
KALAMA CREEK HATCHERY PHASE 2

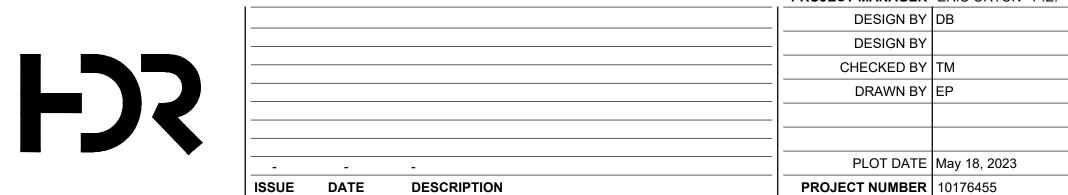
NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880 CIRCULAR TANK BUILDING
PARTIAL ELECTRICAL PLAN 1



FILENAME 15E102.DWG

SCALE AS NOTED

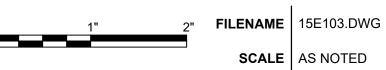


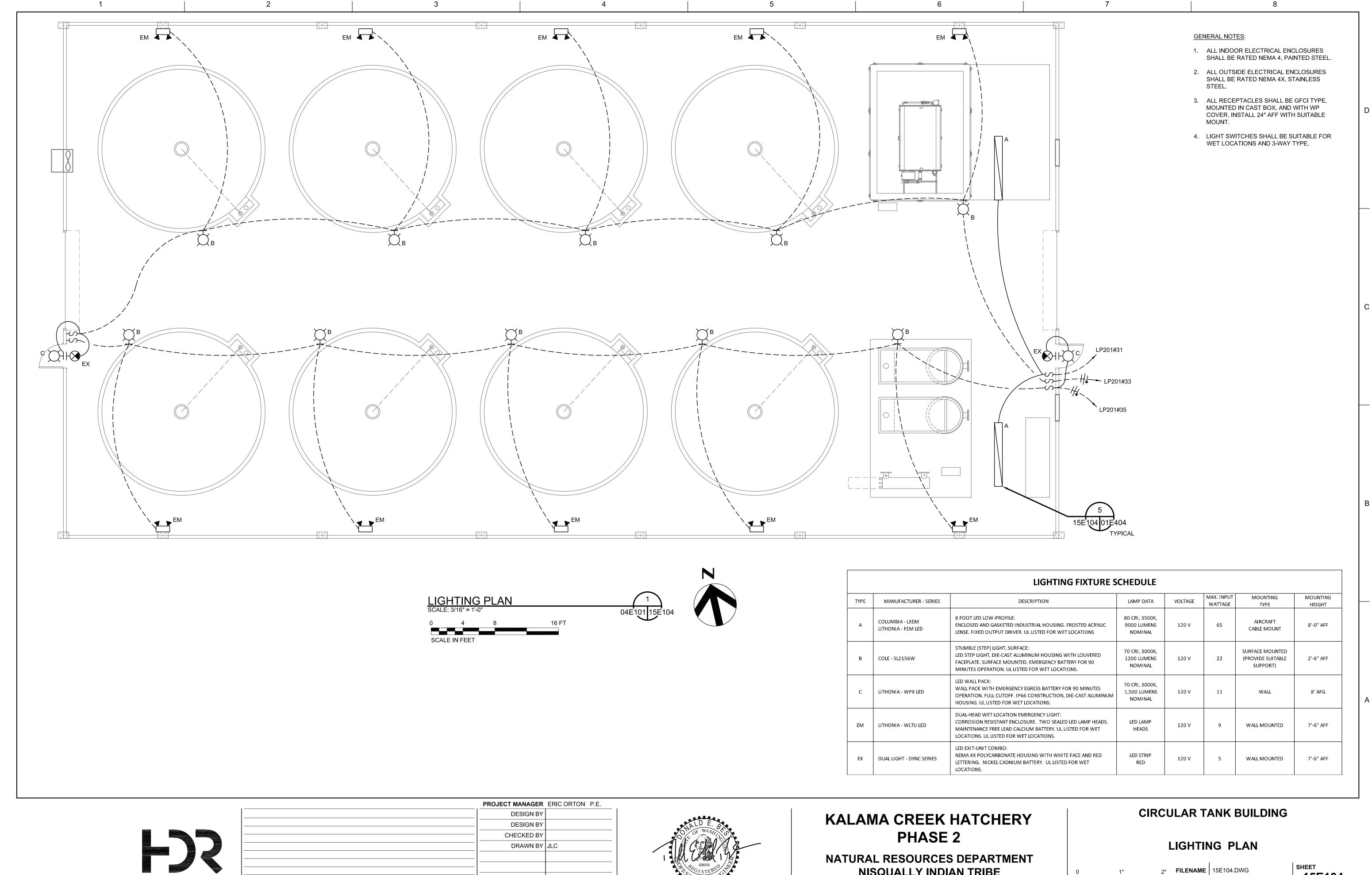




PHASE 2

NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**





PLOT DATE | May 18, 2023

PROJECT NUMBER | 10176455

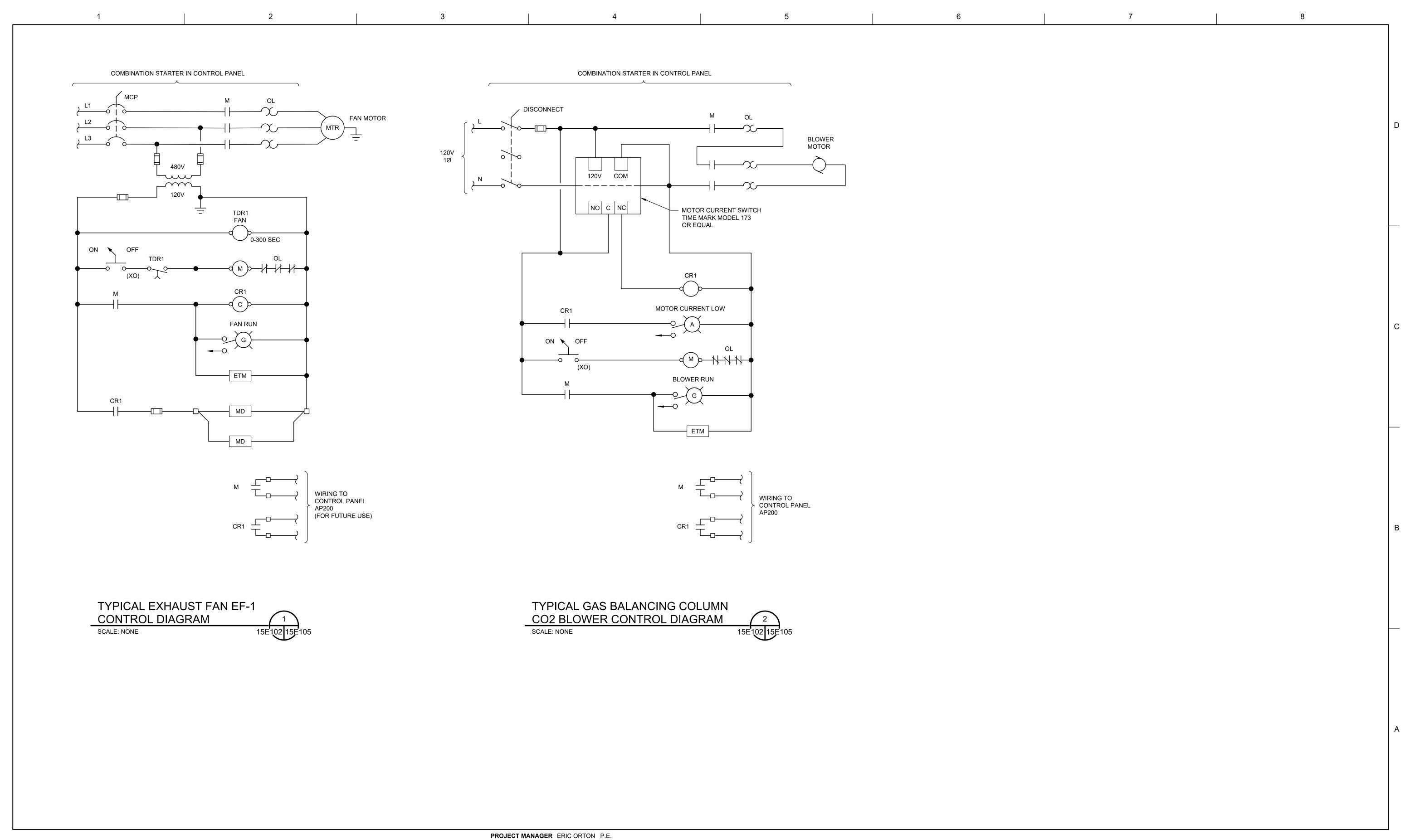
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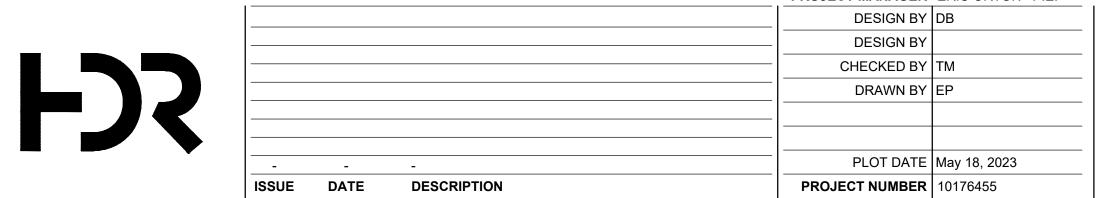
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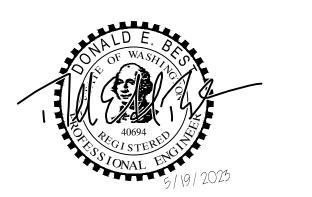


NISQUALLY INDIAN TRIBE

EDA AWARD NUMBER 07-79-07880

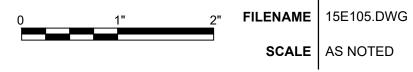


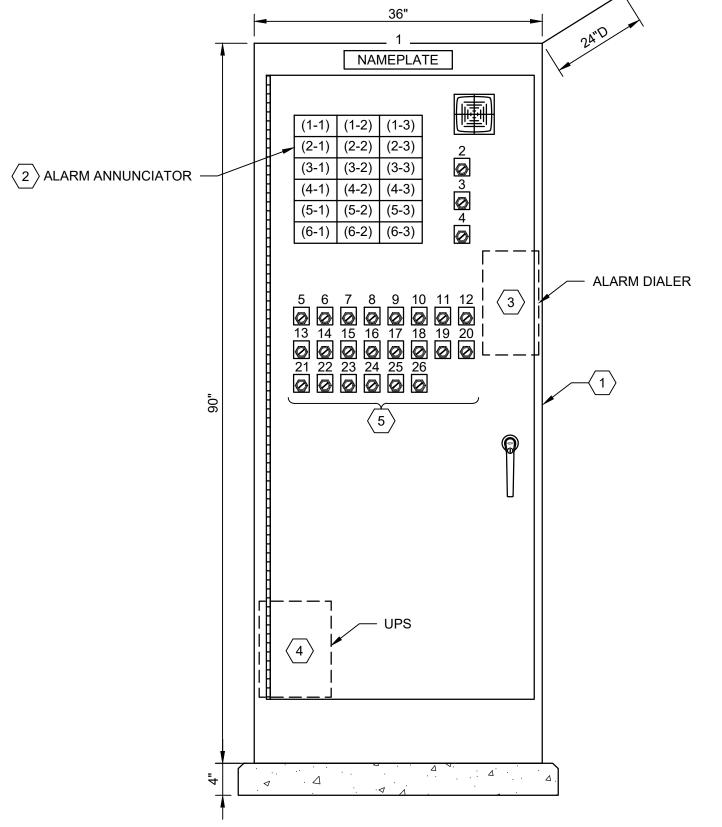




KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880 CIRCULAR TANK BUILDING
ELECTRICAL CONTROL DIAGRAMS





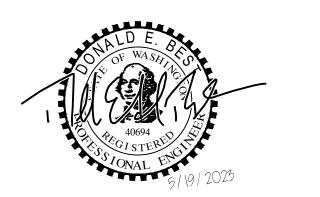
	ANNUNCIATOR SCHEDULE										
ROW-	FIRST LINE	SECOND LINE									
COLUMN	LINST LINE	SECOND LINE									
1-1	CIRCULATION TANKS	LOW LEVEL									
1-2	GAS TOWER	CO2 BLOWER FAULT									
1-3	ELECTRIC UTILITY	LOSS OF POWER									
2-1	CIRCULATION TANKS	LOW DISSOLVED OXYGEN									
2-2	UV DISINFECTION	UNIT FAULT									
2-3	DIESEL STANDBY	GENERATOR FAULT									
3-1	SUPPLY LIFT	STATION FAULT									
3-2	DRUM FILTER	FAULT									
3-3	ATS IN STANDBY	POSITION									
4-1	RECIRC LIFT	STATION FAULT									
4-2	CONCRETE POND	LOW LEVEL									
4-3	INTRUSION	ALARM									
5-1	PA LIFT	STATION FAULT									
5-2	(BLANK)	(BLANK)									
5-3	(BLANK)	(BLANK)									
6-1	(BLANK)	(BLANK)									
6-2	(BLANK)	(BLANK)									
6-3	(BLANK)	(BLANK)									

	AP20	00 CONTROL PANEL SCHED	DULE
ITEM	DESCRIPTION	SERVICE LEGEND	NAMEPLATE INSCRIPTION
1	NAMEPLATE		ALARM PANEL (AP200)
2	PUSHBUTTON	TEST	ANNUNCIATOR
3	PUSHBUTTON	ACK	ANNUNCIATOR
4	PUSHBUTTON	RESET	ANNUNCIATOR
5	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 1 LOW LEVEL
6	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 2 LOW LEVEL
7	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 3 LOW LEVEL
8	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 4 LOW LEVEL
9	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 5 LOW LEVEL
10	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 6 LOW LEVEL
11	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 7 LOW LEVEL
12	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 8 LOW LEVEL
13	SELECTOR, 2-POS	ENABLE/DISABLE	LOW DO 1
14	SELECTOR, 2-POS	ENABLE/DISABLE	LOW DO 2
15	SELECTOR, 2-POS	ENABLE/DISABLE	SUPPLY LS FAULT
16	SELECTOR, 2-POS	ENABLE/DISABLE	RECIRC LS FAULT
17	SELECTOR, 2-POS	ENABLE/DISABLE	PA LS FAULT
18	SELECTOR, 2-POS	ENABLE/DISABLE	CO2 BLWR 1 FAULT
19	SELECTOR, 2-POS	ENABLE/DISABLE	CO2 BLWR 2 FAULT
20	SELECTOR, 2-POS	ENABLE/DISABLE	UV DISINFECTION FAULT
21	SELECTOR, 2-POS	ENABLE/DISABLE	DRUM FILTER FAULT
22	SELECTOR, 2-POS	ENABLE/DISABLE	CONC. POND LOW LEVEL
23	SELECTOR, 2-POS	ENABLE/DISABLE	UTILITY POWER FAULT
24	SELECTOR, 2-POS	ENABLE/DISABLE	GENERATOR FAULT
25	SELECTOR, 2-POS	ENABLE/DISABLE	ATS IN STANDBY
26	SELECTOR, 2-POS	FNABLE/DISABLE	(BLANK)

ALARM PANEL AP200 FRONT ELEVATION SCALE: NONE

1	NAMEPLATE		ALARM PANEL (AP200)
2	PUSHBUTTON	TEST	ANNUNCIATOR
3	PUSHBUTTON	ACK	ANNUNCIATOR
4	PUSHBUTTON	RESET	ANNUNCIATOR
5	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 1 LOW LEVEL
6	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 2 LOW LEVEL
7	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 3 LOW LEVEL
8	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 4 LOW LEVEL
9	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 5 LOW LEVEL
10	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 6 LOW LEVEL
11	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 7 LOW LEVEL
12	SELECTOR, 2-POS	ENABLE/DISABLE	TANK 8 LOW LEVEL
13	SELECTOR, 2-POS	ENABLE/DISABLE	LOW DO 1
14	SELECTOR, 2-POS	ENABLE/DISABLE	LOW DO 2
15	SELECTOR, 2-POS	ENABLE/DISABLE	SUPPLY LS FAULT
16	SELECTOR, 2-POS	ENABLE/DISABLE	RECIRC LS FAULT
17	SELECTOR, 2-POS	ENABLE/DISABLE	PA LS FAULT
18	SELECTOR, 2-POS	ENABLE/DISABLE	CO2 BLWR 1 FAULT
19	SELECTOR, 2-POS	ENABLE/DISABLE	CO2 BLWR 2 FAULT
20	SELECTOR, 2-POS	ENABLE/DISABLE	UV DISINFECTION FAULT
21	SELECTOR, 2-POS	ENABLE/DISABLE	DRUM FILTER FAULT
22	SELECTOR, 2-POS	ENABLE/DISABLE	CONC. POND LOW LEVEL
23	SELECTOR, 2-POS	ENABLE/DISABLE	UTILITY POWER FAULT
24	SELECTOR, 2-POS	ENABLE/DISABLE	GENERATOR FAULT
25	SELECTOR, 2-POS	ENABLE/DISABLE	ATS IN STANDBY
26	SELECTOR, 2-POS	ENABLE/DISABLE	(BLANK)

PROJECT MANAGER ERIC ORTON P.E. DESIGN BY D DESIGN BY CHECKED BY TM DRAWN BY EF PLOT DATE May 18, 2023 PROJECT NUMBER 10176455 DATE DESCRIPTION



KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**

CIRCULAR TANK BUILDING **ALARM PANEL (AP200)**

GENERAL NOTES:

KEYED NOTES:

PANEL(S).

PROVIDED.

ANNUNICIATOR.

SPEC. 40 67 00.

THIS DRAWING.

CONCRETE ANCHORS.

1. CONTROL PANEL FABRICATED ACCORDING TO

2. CONTROL AUXILIARIES PER SPEC 40 78 00. NOT ALL REQUIRED COMPONENTS ARE SHOWN ON

3. SECURE ENCLOSURE TO CONCRETE WITH

4. PROVIDE CONTROL PANEL WITH DOOR ACTIVATED, LED TYPE LIGHT FIXTURE.

1 SINGLE-DOOR, FREE-STANDING, PAINTED

2 ANNUNCIATOR WITH HINGED COVER FOR NEMA 4 RATING. EACH ANNUNICATOR INPUT

CONFIGURED TO FOLLOW ALARM INPUT

 $\sqrt{3}$ ALARM DIALER MOUNTED TO INTERNAL SIDE PANEL. TELEPHONE SERVICE SHALL BE

4 SHELF MOUNTED UNINTERRUPTIBLE POWER

THE ANNUNCIATOR AND ALARM DIALER.

SHALL BE GROUPED AS REQUIRED TO PROVIDE INPUTS TO THE ALARM

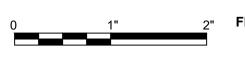
5 EACH ALARM INPUT SHALL INCLUDE AN

SUPPLY TO PROVIDE PROTECTED POWER TO

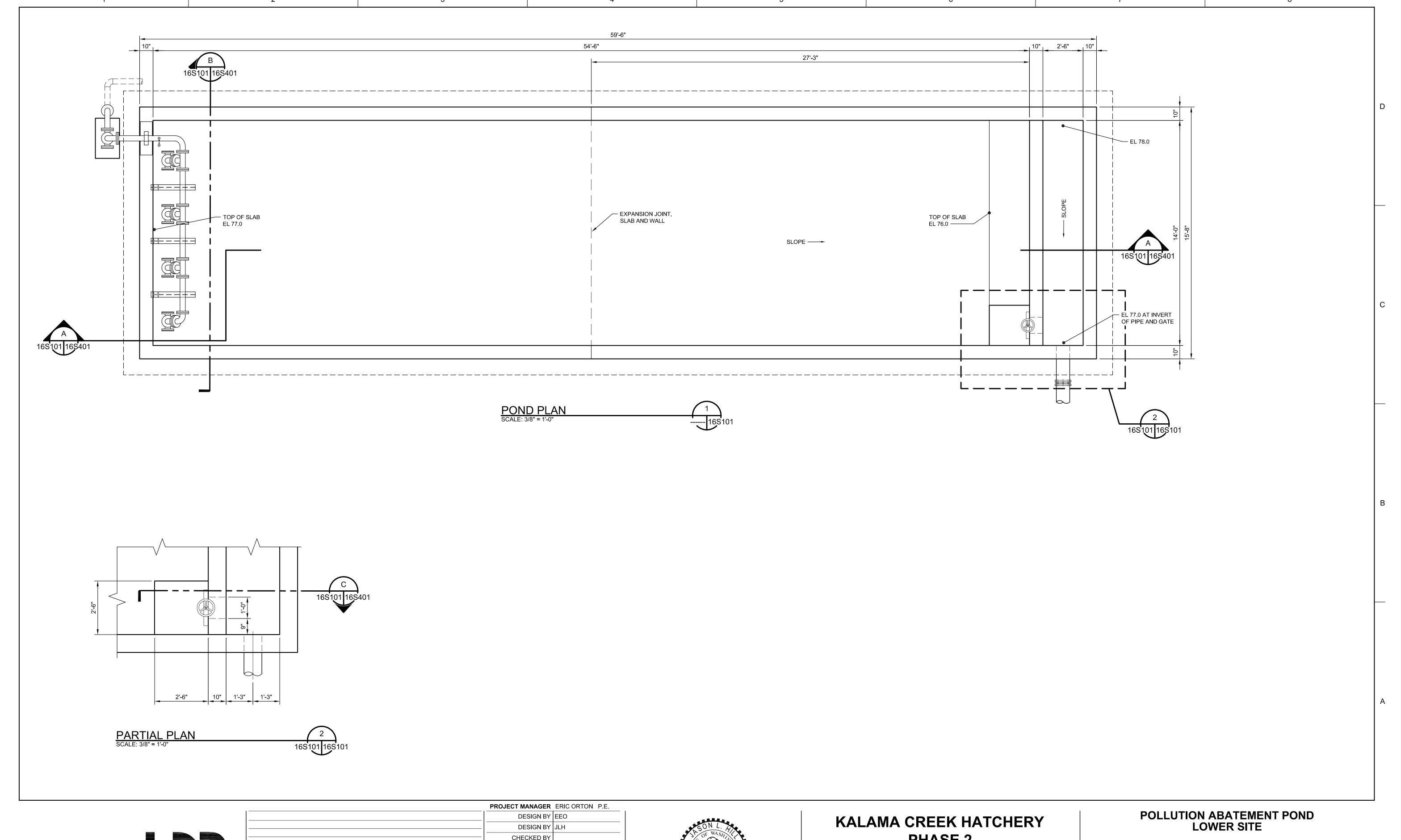
ENABLE/DISABLE SELECTOR SWITCH. ALARMS

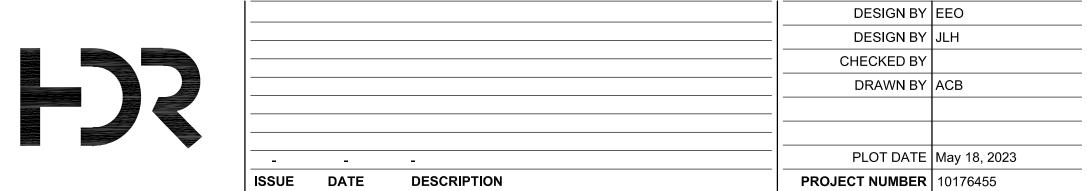
SHALL BE PROVIDED WITH A REPEAT RELAY

STEEL ENCLOSURE WITH NEMA 4 ENCLOSURE RATING. PROVIDE WITH INTERNAL MOUNTING



FILENAME 15E401.DWG SCALE AS NOTED







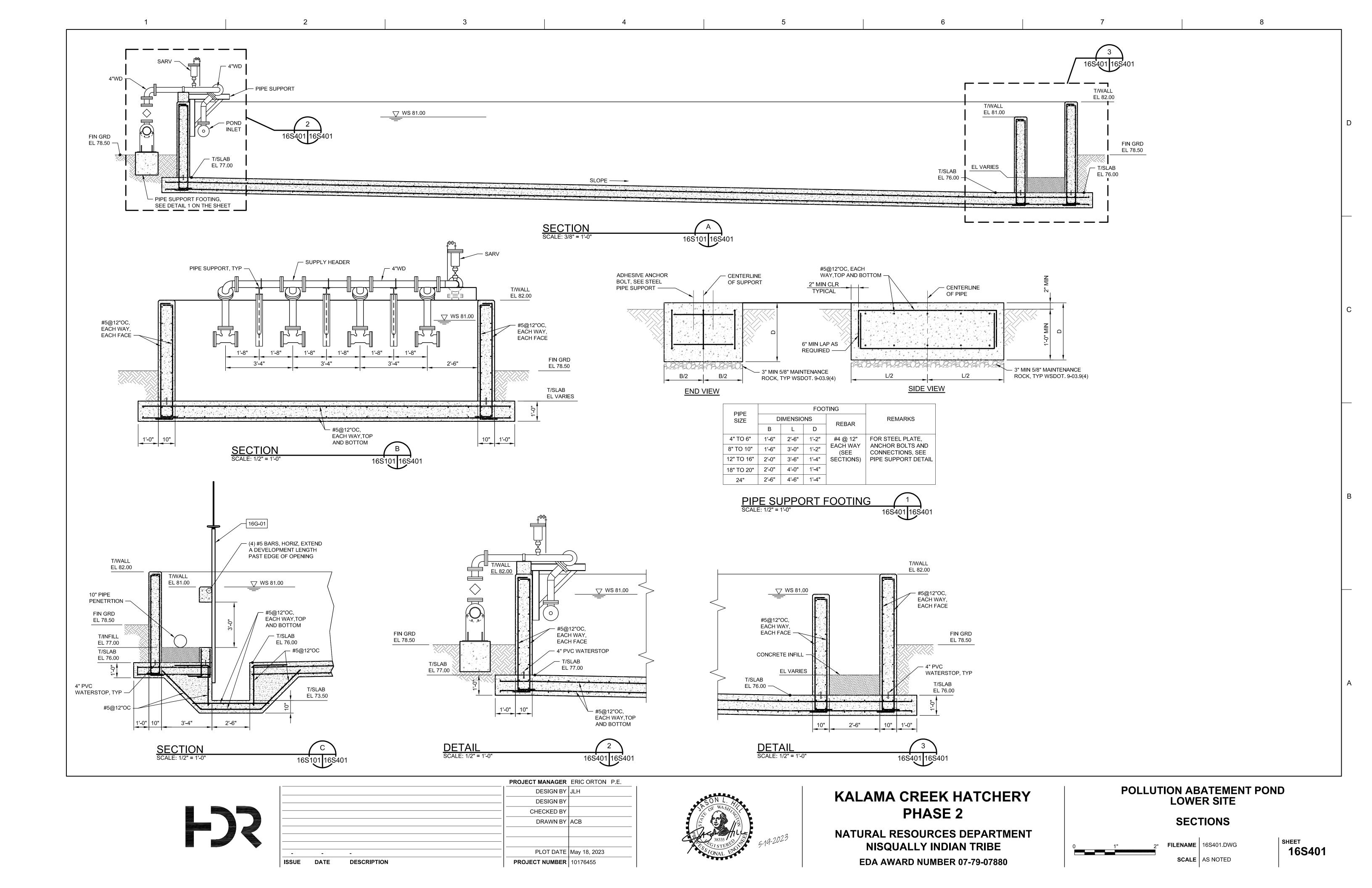
PHASE 2

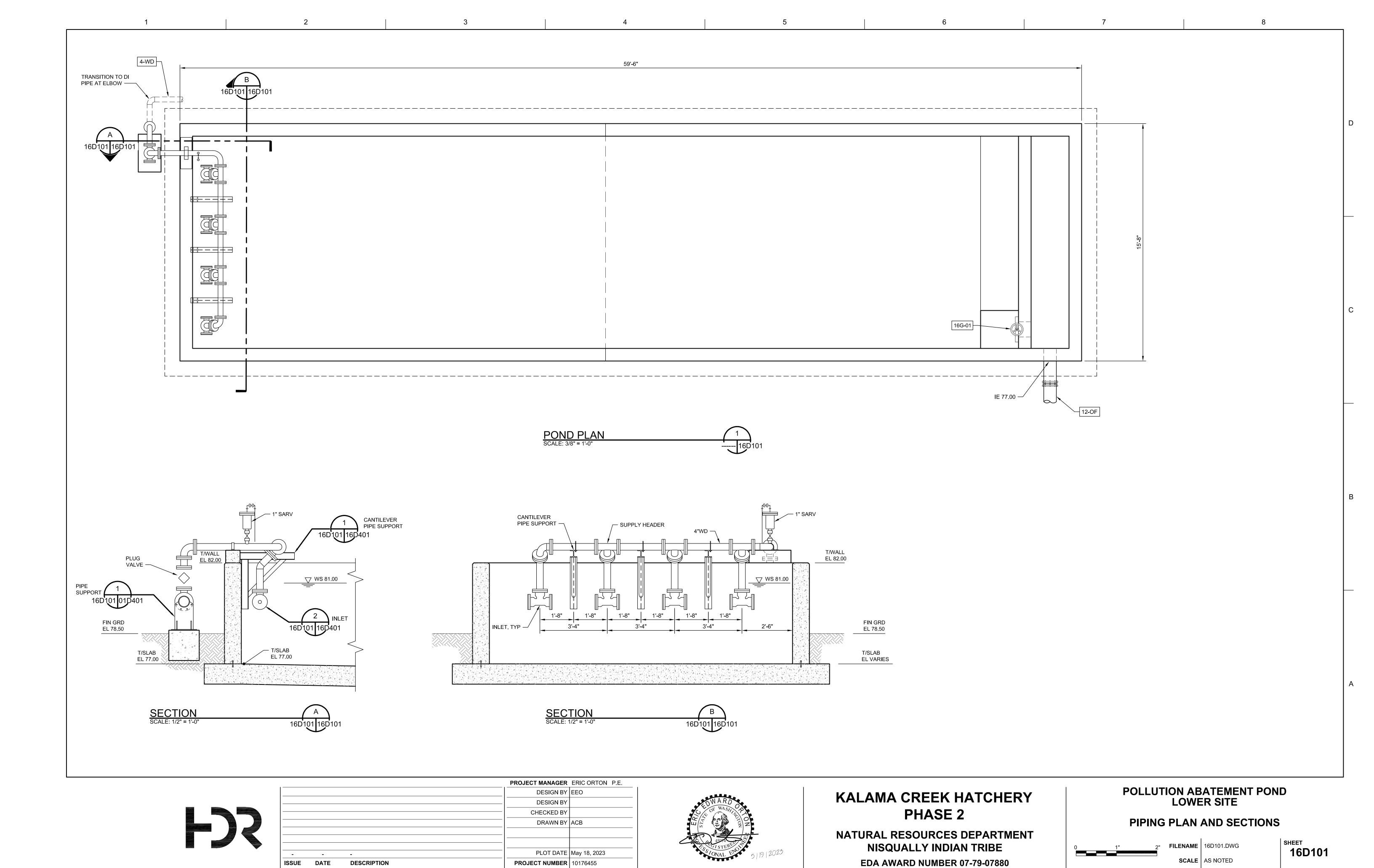
NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE** EDA AWARD NUMBER 07-79-07880

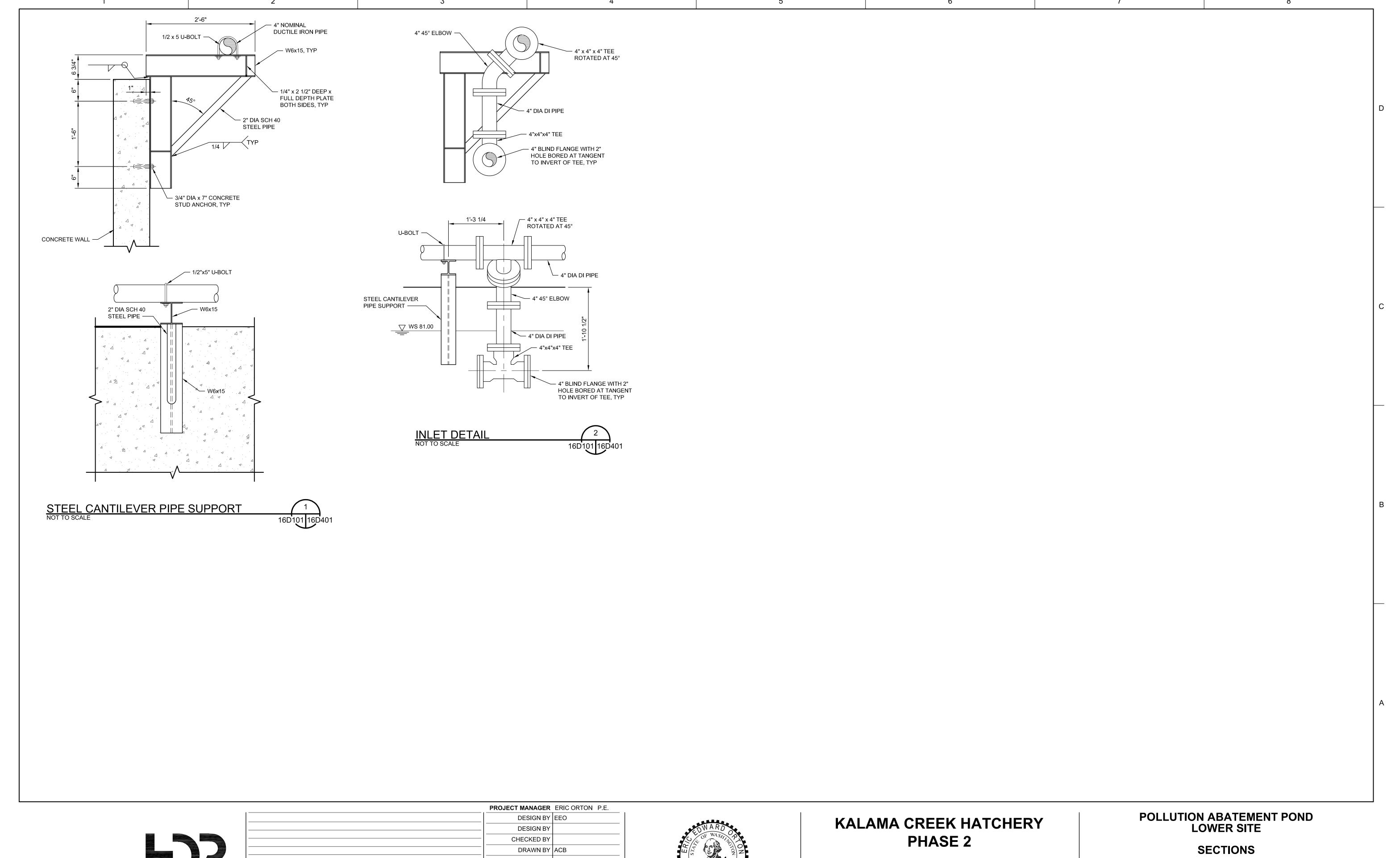
PLANS

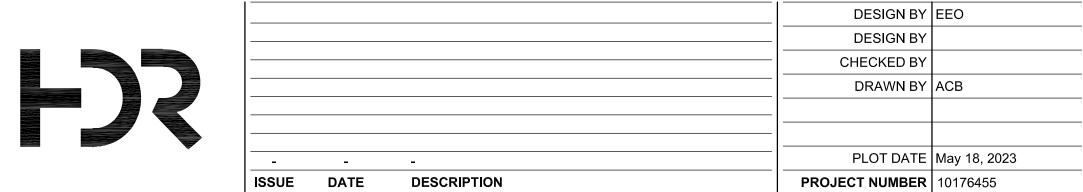


16S101









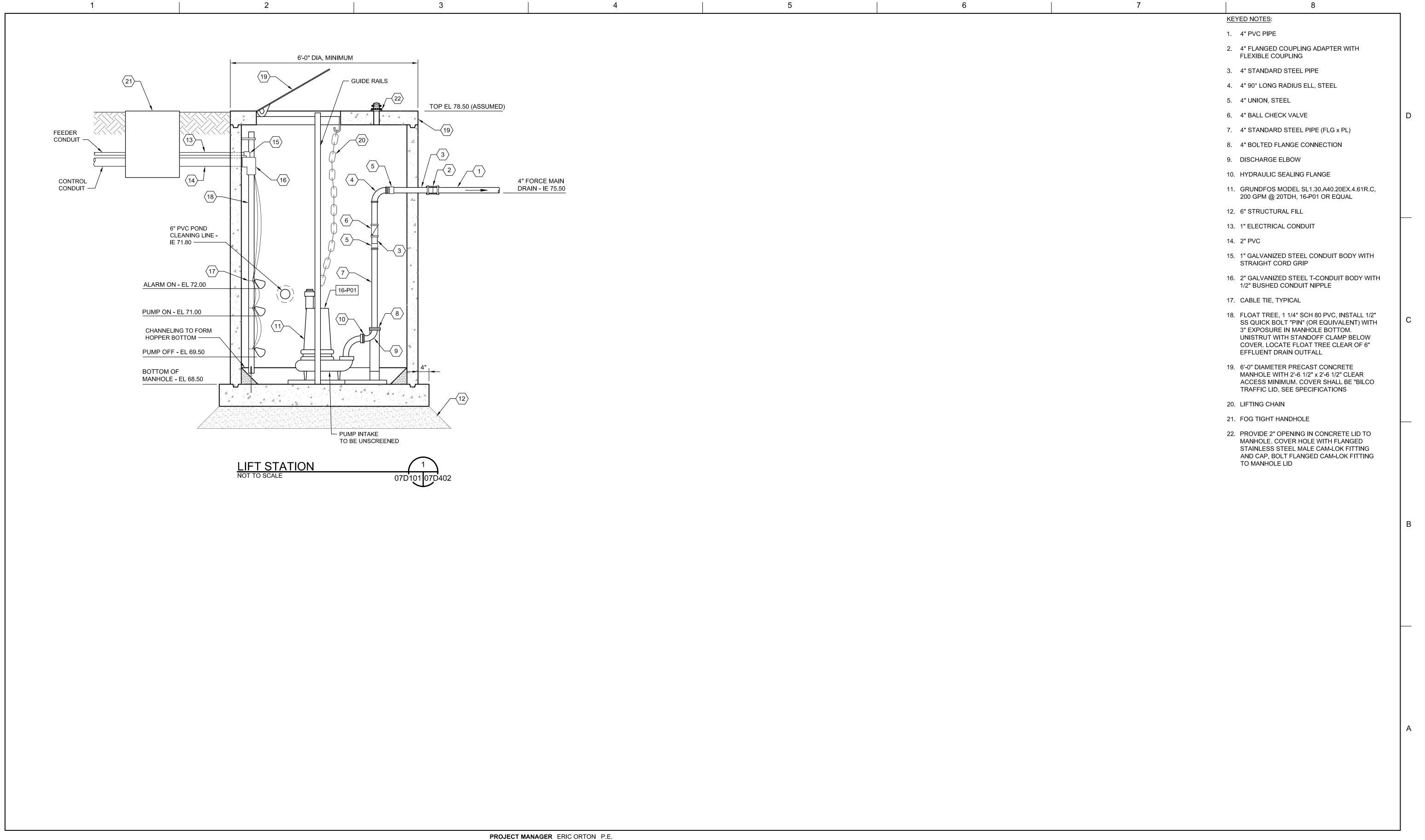


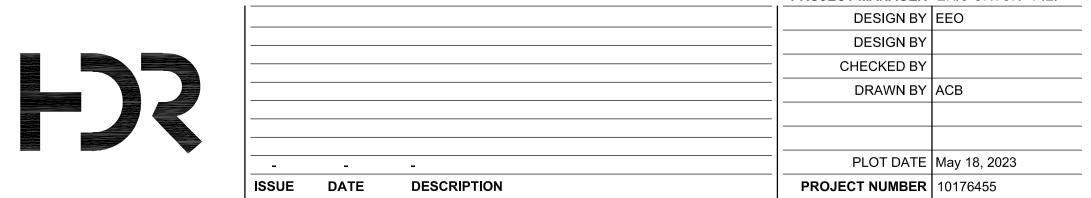
NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**



FILENAME 16D401.DWG SCALE AS NOTED

16D401







KALAMA CREEK HATCHERY PHASE 2

NATURAL RESOURCES DEPARTMENT NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880

POLLUTION ABATEMENT POND LOWER SITE

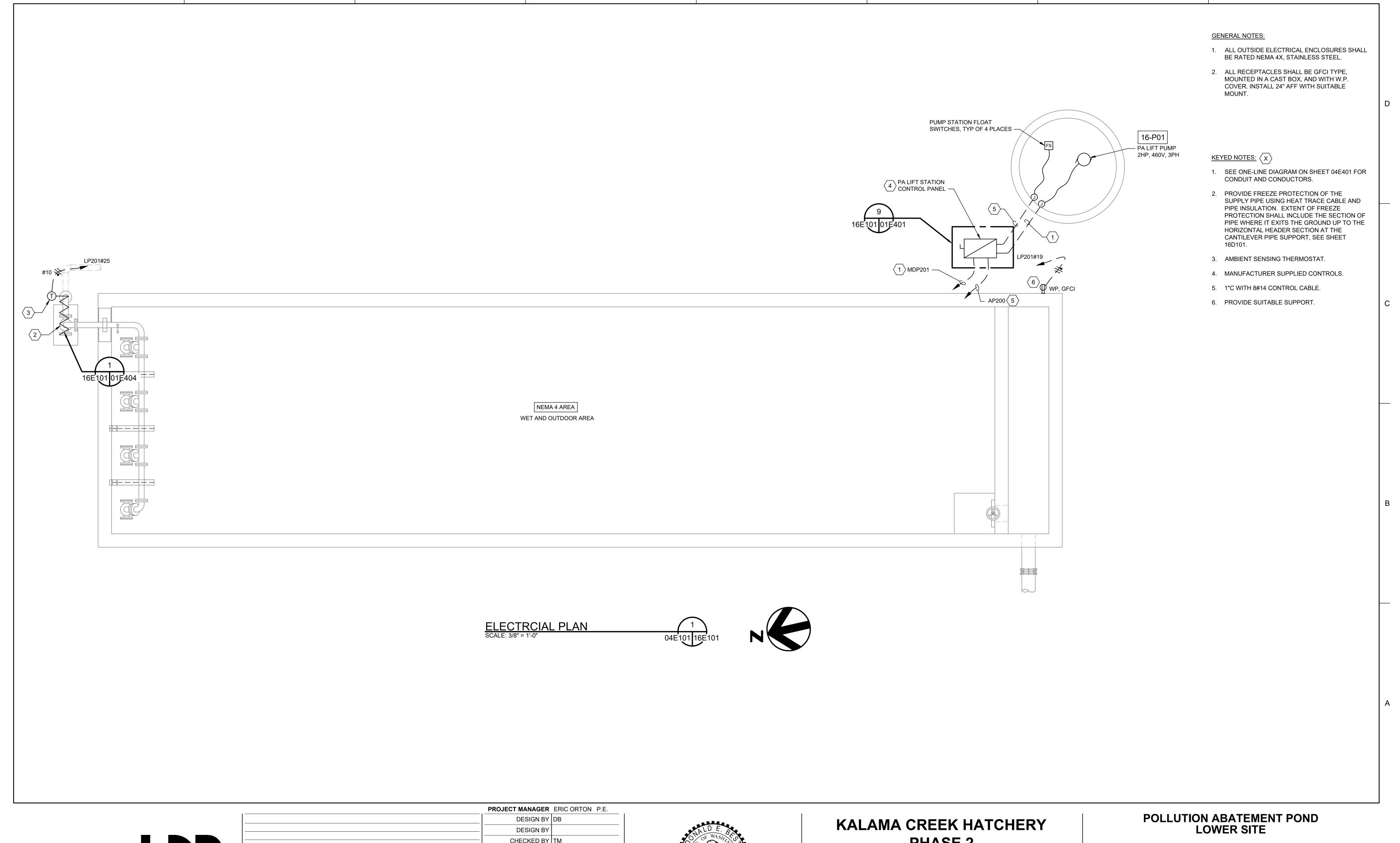
LIFT STATION

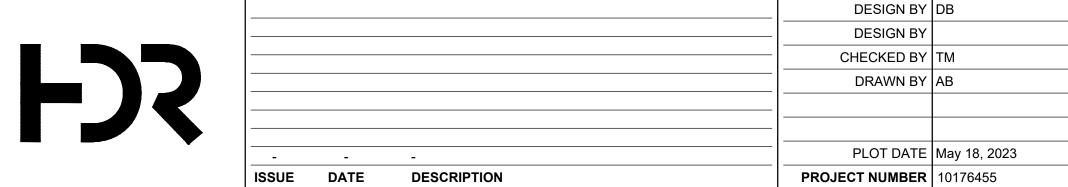


FILENAME 16D402.DWG

SCALE AS NOTED

16D402



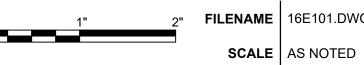




PHASE 2

NATURAL RESOURCES DEPARTMENT **NISQUALLY INDIAN TRIBE EDA AWARD NUMBER 07-79-07880**

ELECTRICAL PLAN



FILENAME 16E101.DWG