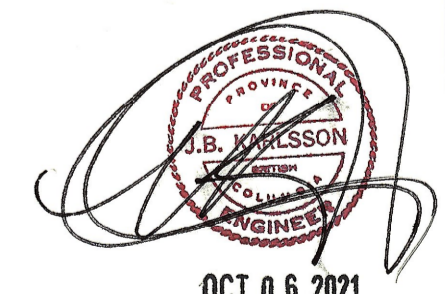


LEGEND:

- AERATION TOWER WATER SUPPLY
- SURFACE WATER SUPPLY

NOTE:

1. SEE DRAWING 101944-01-0000-C-005 FOR NOTES.



PLAN
N.T.S.

**NOTE: BASE DRAWING BY SILK STEVENS LIMITED.
WATER SUPPLY PIPING DESIGN BY AUSENCO.**

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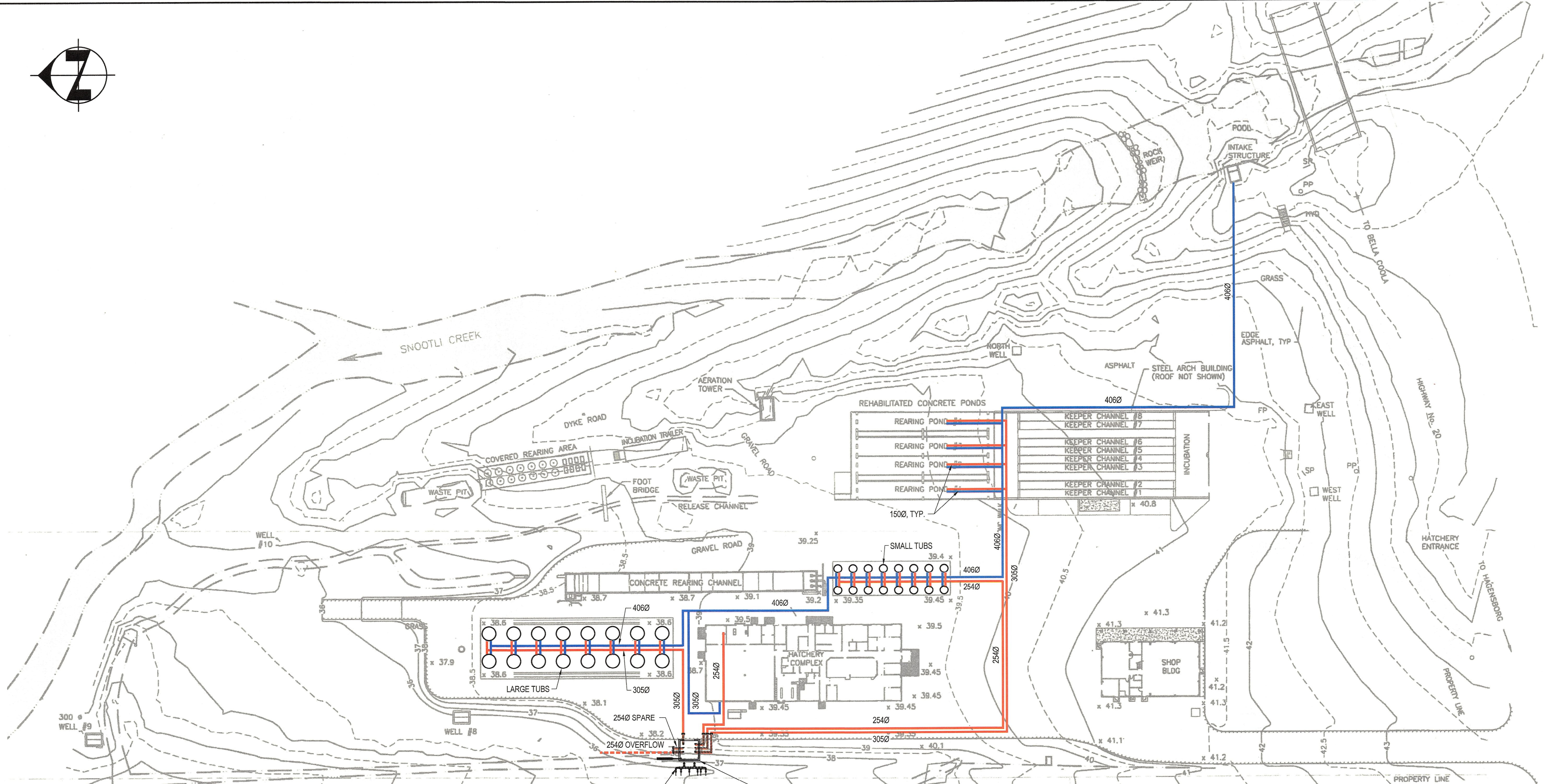
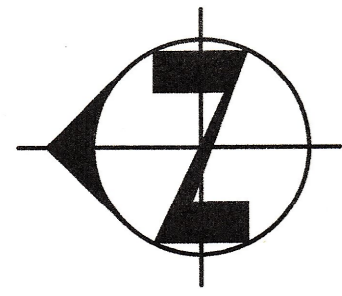
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| | | | | E JS | 07SEP2021 | ISSUED FOR TENDER | JK | JK | JK | |

| | | |
|--------------|--------------|-----------|
| DRAWN | B. THOMPSETT | 08MAR2017 |
| DWG. CHECKED | J. KARLSSON | 29JUL2020 |
| DESIGNED | G. SZABO | 08MAR2017 |
| DES. APPR. | J. KARLSSON | 29JUL2020 |

| | |
|--------|--|
| CLIENT | DEPARTMENT OF FISHERIES & OCEANS |
| TITLE | SNOOTLI CREEK FISH HATCHERY FACILITY WATER SUPPLY AND DISTRIBUTION GENERAL ARRANGEMENT |

| | |
|-------------|----------------------|
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| DRAWING No. | 101944-01-0000-C-001 |
| SCALE | N.T.S. |
| SIZE | A1 |
| REV | E |

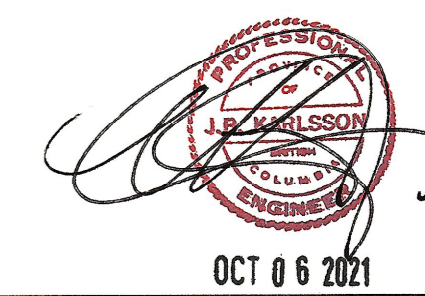
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LEGEND:
— AERATION TOWER WATER SUPPLY
— SURFACE WATER SUPPLY

NOTE:
 1. SEE DRAWING 101944-01-0000-C-005 FOR NOTES.



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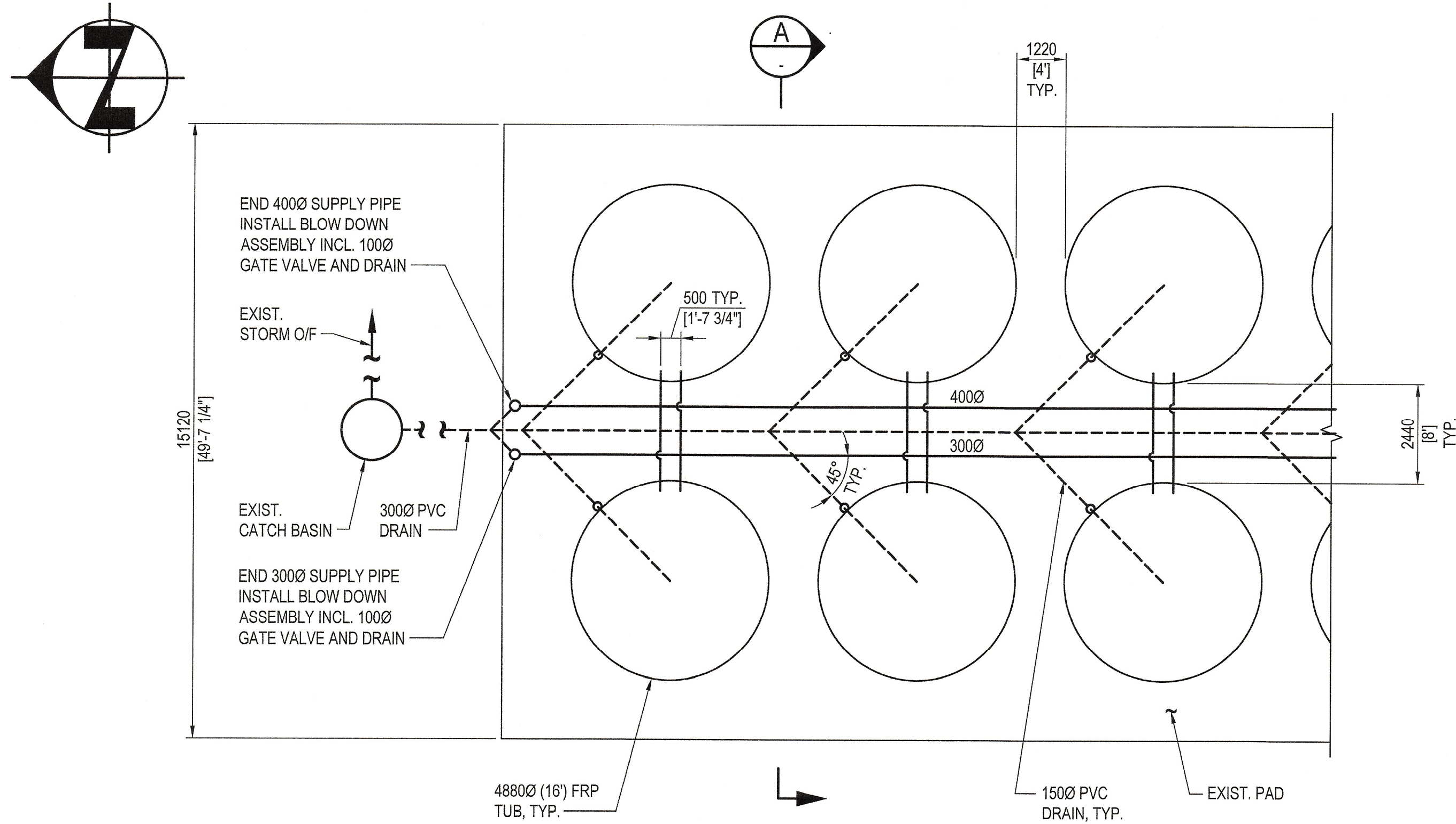
DRAWN B. THOMPSETT 11OCT2018
 DWG. CHECKED J. KARLSSON 29JUL2020
 DESIGNED J. KARLSSON 11OCT2018
 DES. APPR. J. KARLSSON 29JUL2020

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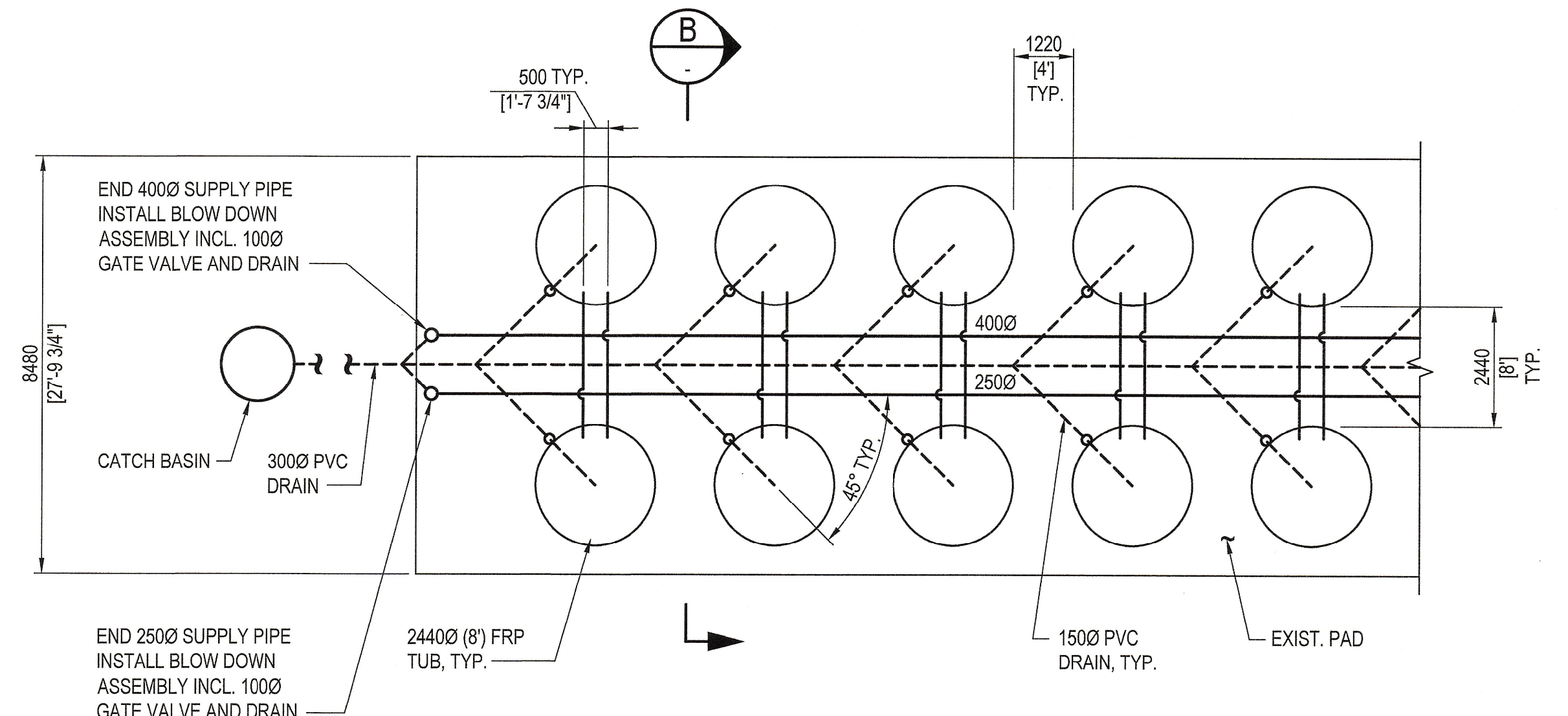
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| CLIENT | DEPARTMENT OF FISHERIES & OCEANS |
| TITLE | SNOOTLI CREEK HATCHERY FACILITY CREEK WATER SUPPLY AND DISTRIBUTION WELL WATER DISTRIBUTION PLAN |

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| PROJECT No. 2101944-01 | | REV |
| DRAWING No. 101944-01-0000-C-002 | | E |

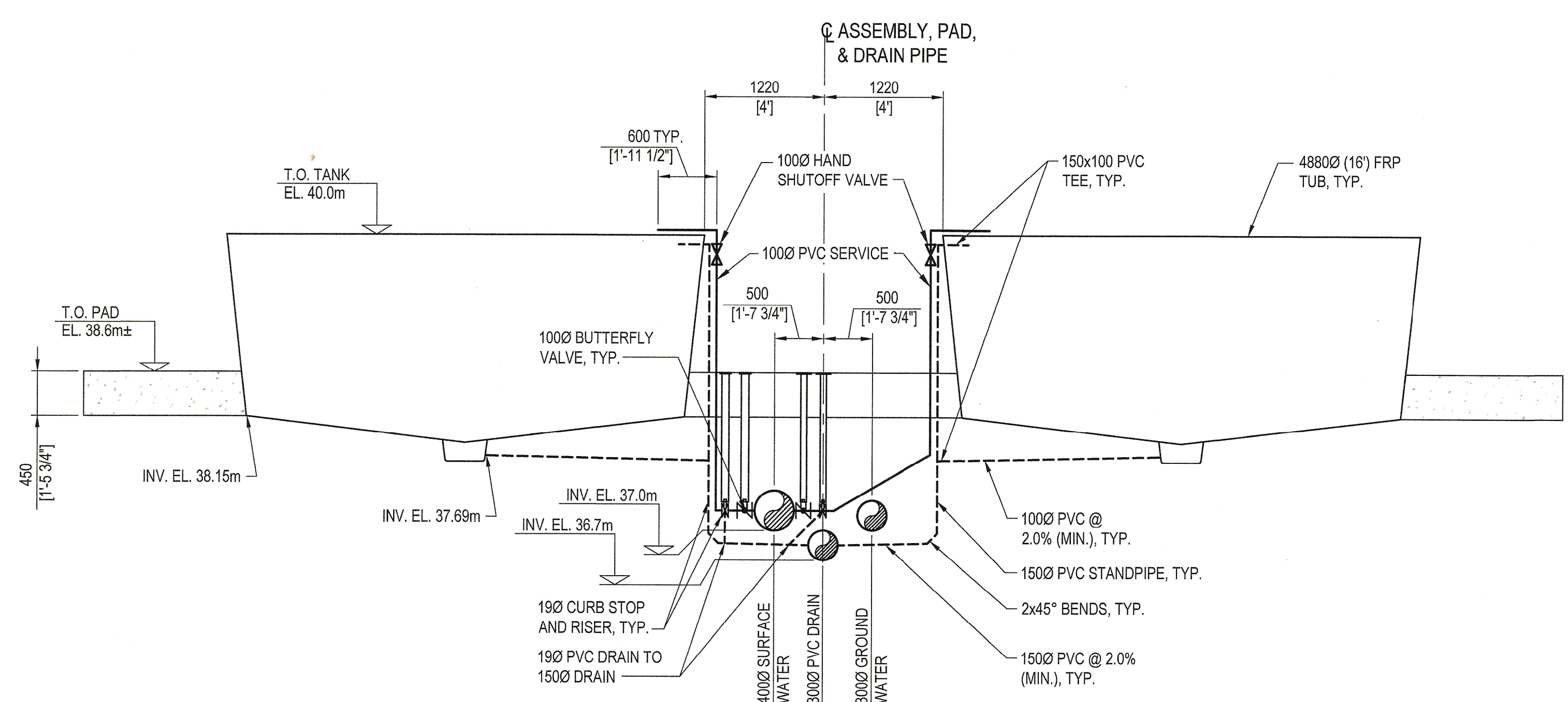
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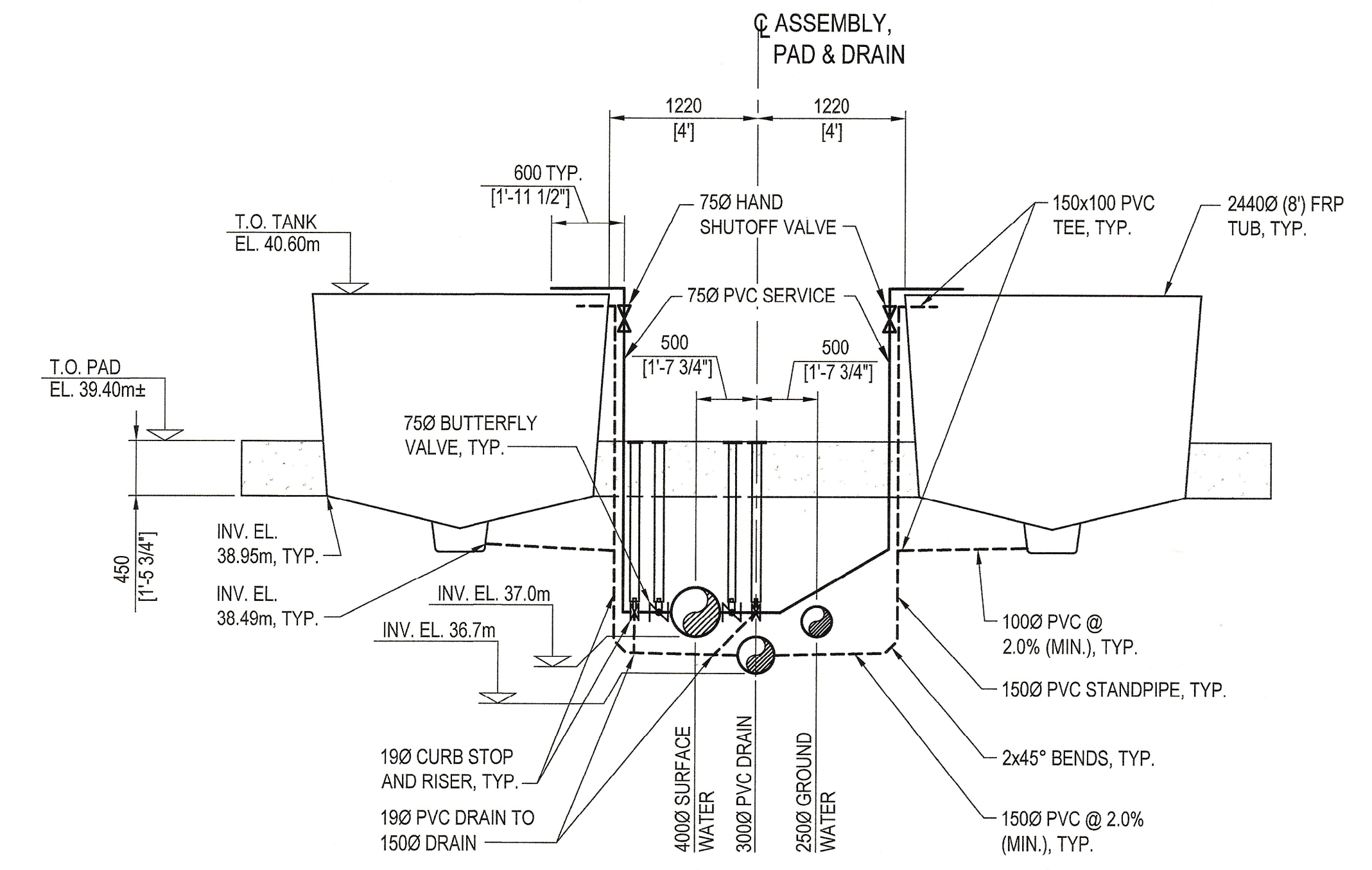
PLAN - LARGE TUBS (NORTH END)
1:100



PLAN - SMALL TUBS
1:100



SECTION A
1:40

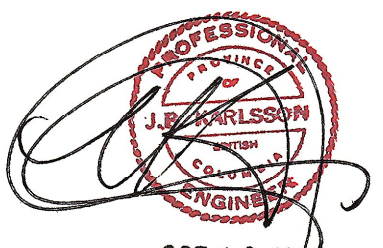


SECTION B
1:40

**NOT FOR
CONSTRUCTION
INFORMATION ONLY**



- NOTES:**
- SEE DRAWING 101944-01-0000-C-004 FOR NOTES.
 - WATER SERVICES FROM 250Ø GROUND WATER FEED NOT SHOWN FOR CLARITY. GROUND (WELL) WATER SERVICES SIMILAR TO SURFACE WATER SYSTEM.



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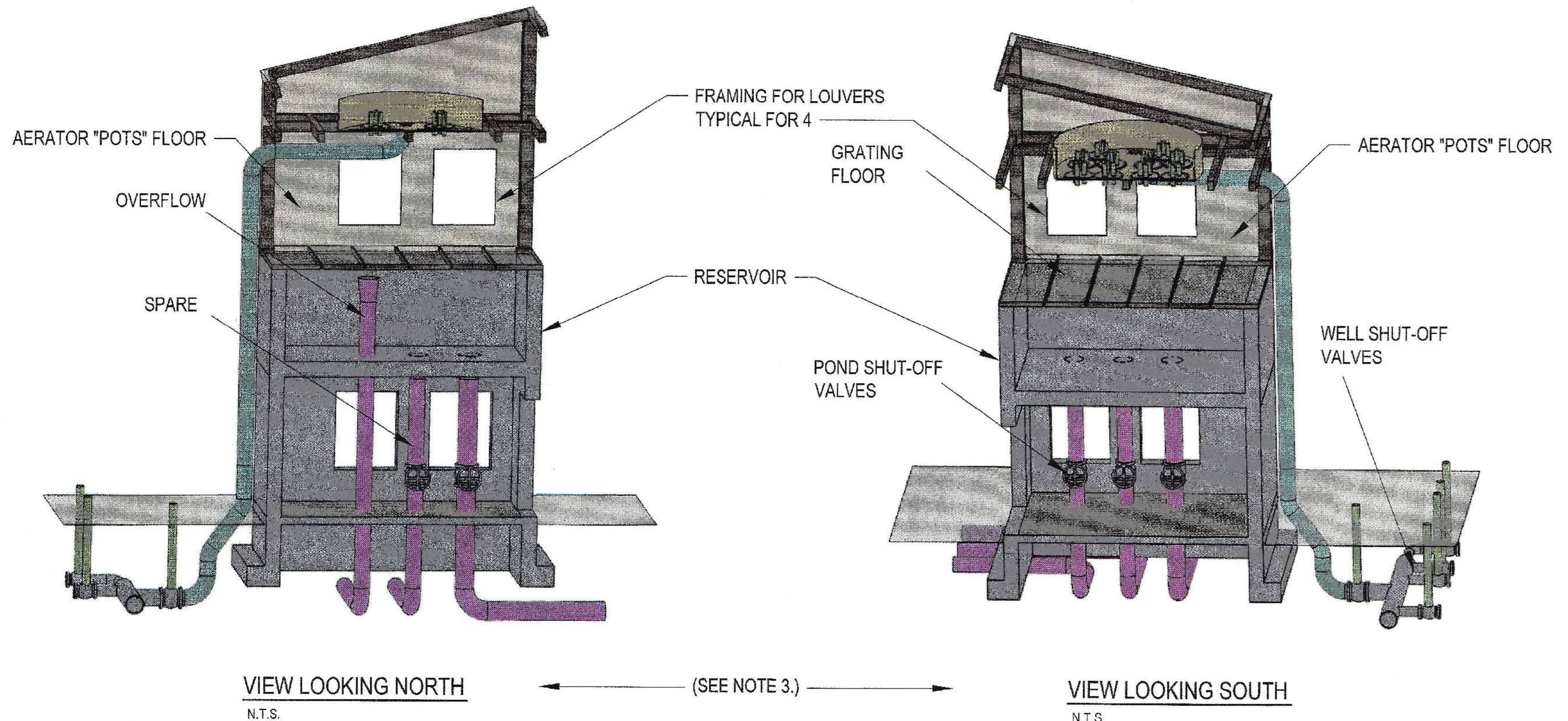
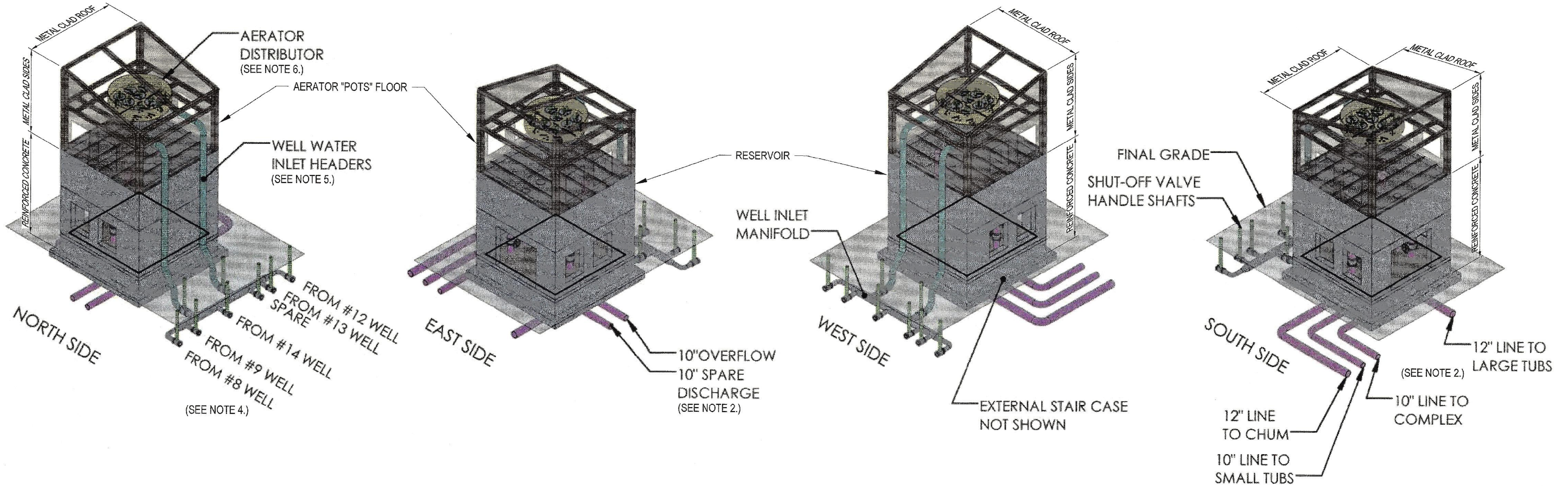
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| | | | | B | JS | 07SEP2021 | | | | |
| | | | | A | BT | 2018-11-14 | | | | |

| | | |
|--------------|--------------|-----------|
| DRAWN | B. THOMPSETT | 08NOV2018 |
| DWG. CHECKED | J. KARLSSON | 29JUL2020 |
| DESIGNED | J. EVIN | 08NOV2018 |
| DES. APPR. | J. KARLSSON | 29JUL2020 |

| | |
|--------|--|
| CLIENT | DEPARTMENT OF FISHERIES & OCEANS |
| TITLE | SNOOTLI CREEK FISH HATCHERY FACILITY WATER DISTRIBUTION LARGE TUB AND SMALL TUB PIPING LAYOUTS |

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- NOTES:**
- SEE DRAWINGS 101944-01-0000-S-001 TO S-009 FOR STRUCTURAL DRAWINGS OF AERATION TOWER.
 - SEE DRAWING C-005 FOR GENERAL AND PIPING NOTES, AND FOR GROUND LEVEL PLAN OF BURIED PIPING WORKS.
 - SEE DRAWINGS C-006 AND C-007 FOR ELEVATION VIEWS OF UNDERGROUND AND ABOVE-GROUND PIPING WORKS AND DETAILS.
 - SEE DRAWING C-008 FOR DETAILS OF WELL WATER SUPPLY MANIFOLD.
 - SEE DRAWING C-009 FOR DETAILS OF AERATION TOWER RISER SUPPLY PIPE TO TOP FLOOR DISTRIBUTOR UNIT AND TRAY.
 - SEE DRAWING C-010 FOR DETAILS OF DISTRIBUTOR UNIT AND TRAY.



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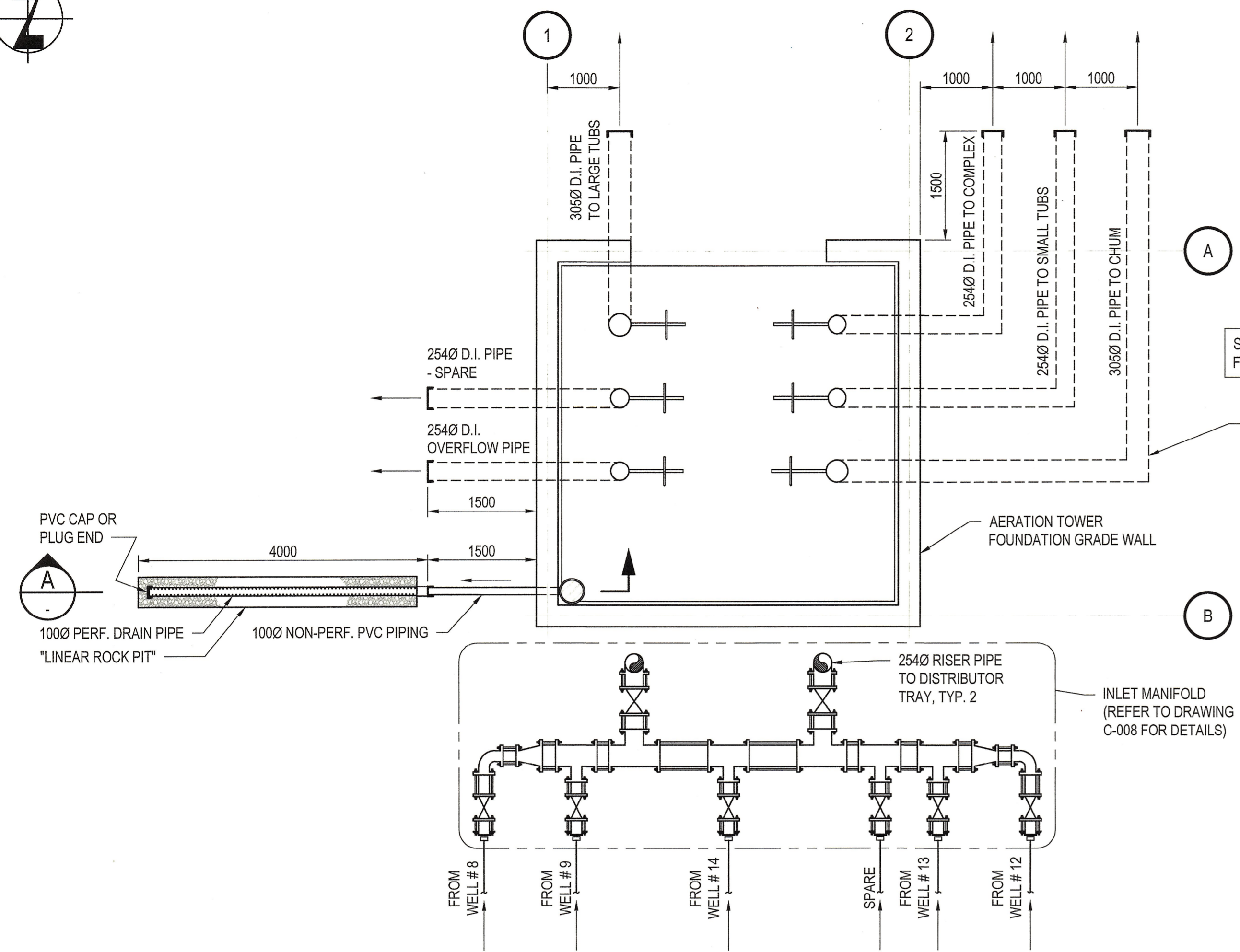
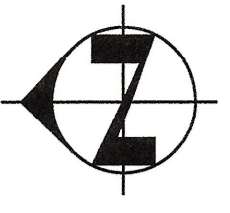
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| | | | | | 07/SEP/2021 | ISSUED FOR TENDER | | | | |

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|--------------|--------------|-----------|
| DRAWN | B. THOMPSETT | 29JUL2020 |
| DWG. CHECKED | J. KARLSSON | 29JUL2020 |
| DESIGNED | D. de VRIES | 29JUL2020 |
| DES. APPR. | J. KARLSSON | 29JUL2020 |

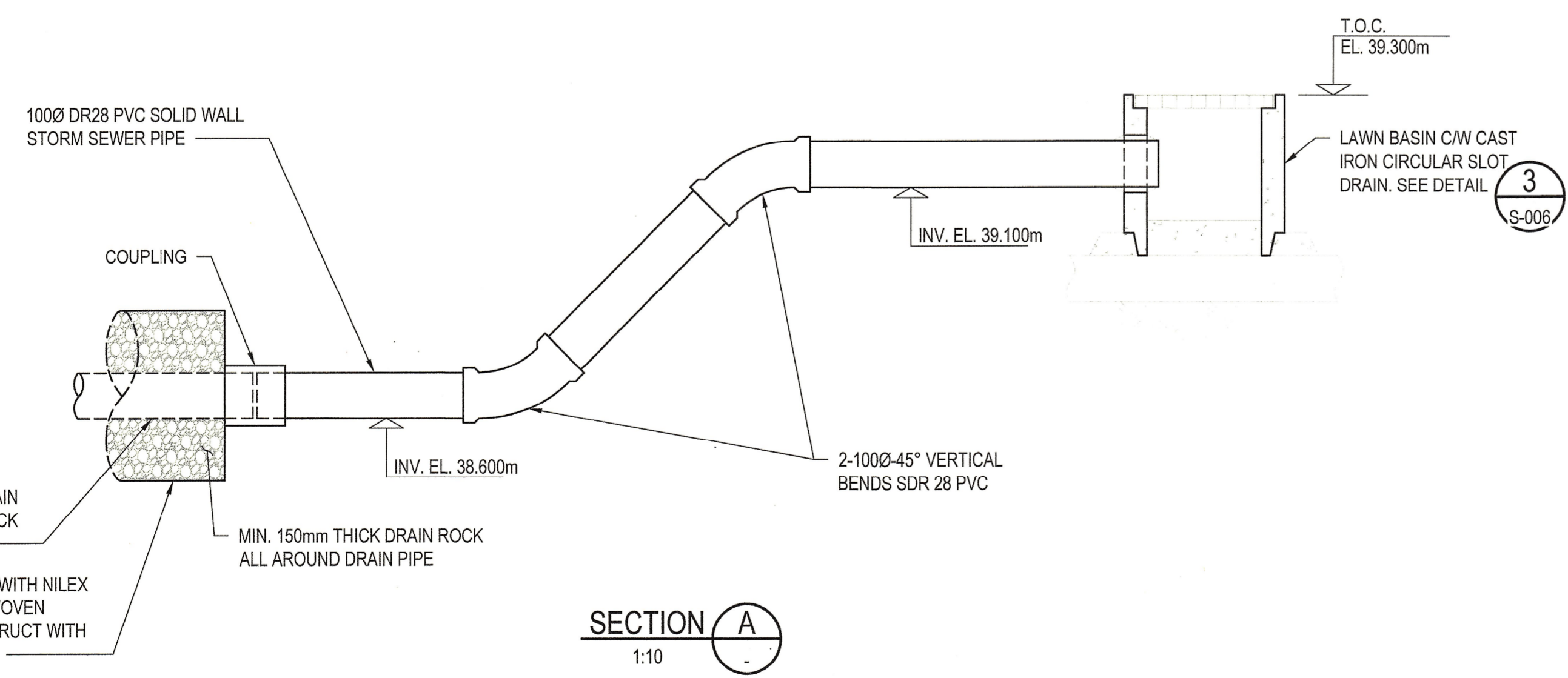
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| CLIENT | DEPARTMENT OF FISHERIES & OCEANS |
| TITLE | SNOOTLI CREEK FISH HATCHERY FACILITY AERATOR TOWER ISOMETRIC VIEWS AND SECTIONS |

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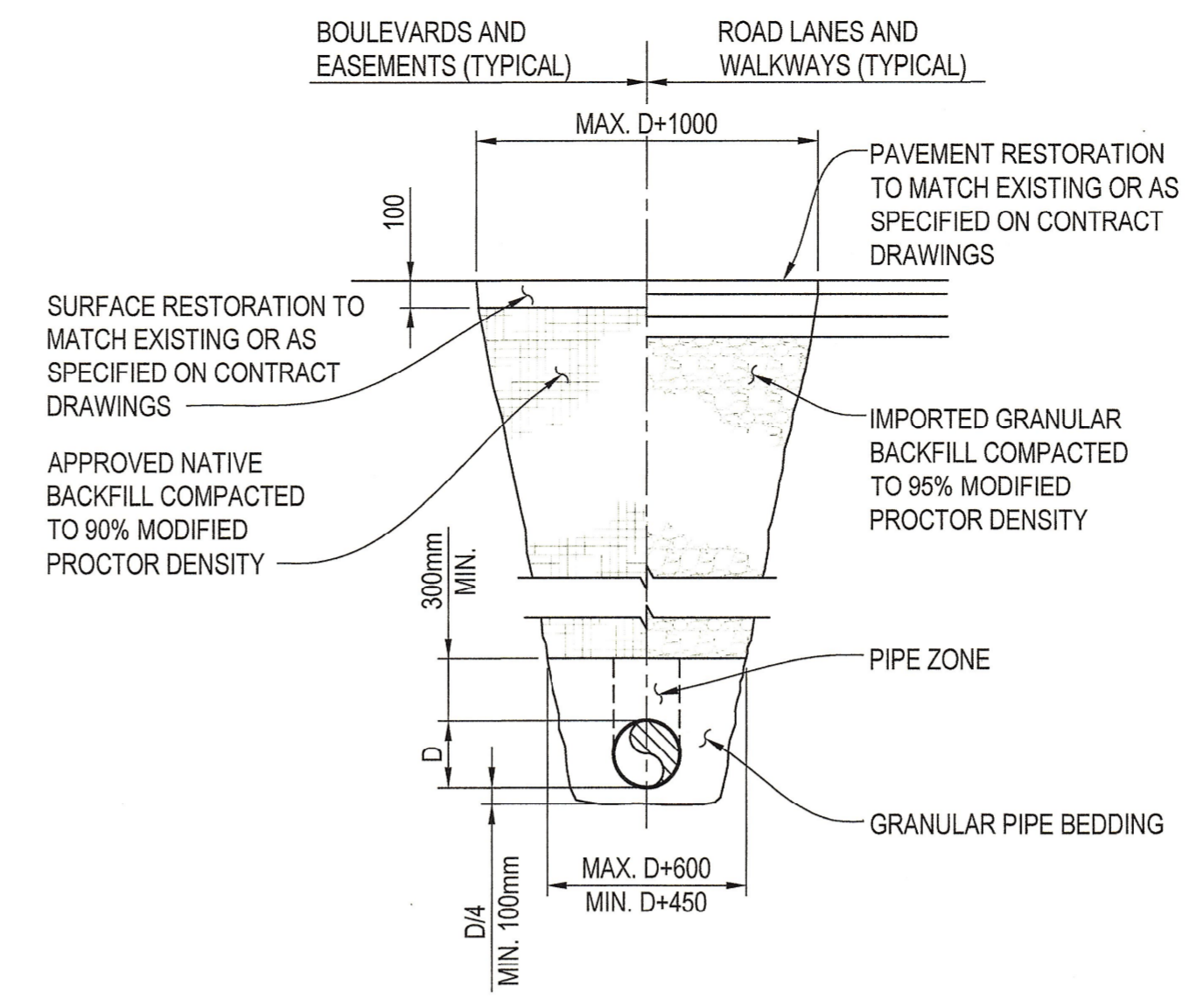
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PLAN
1:50



SECTION A
1:10



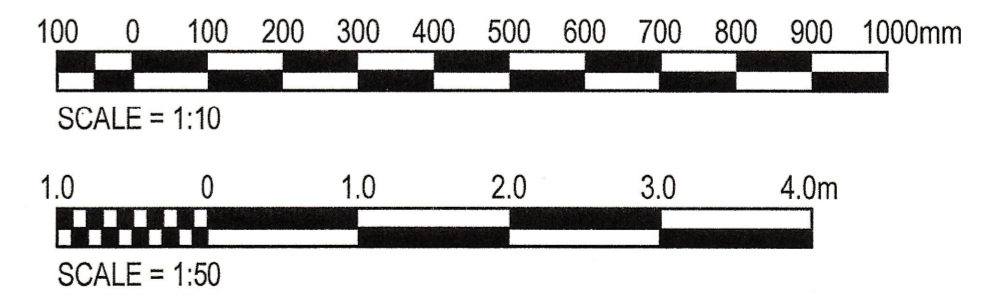
TYPICAL PIPE TRENCH DETAIL
N.T.S.

NOTES:

- COMPLY WITH MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) EXCEPT WHERE NOTED OTHERWISE.
- DEPTH OF COVER: MINIMUM 1.5m TO CROWN OF PIPE.
- ALL PIPE AND FITTINGS JOINTS SHALL BE "PUSH-ON" BELL & SPIGOT TYPE (E.G., "TYTON") - EXCEPT WHERE NOTED OTHERWISE - USING SINGLE RUBBER GASKET ; TO AWWA C111 TYTON.
- ALL BEND, TEE AND REDUCER FITTINGS SHALL BE DUCTILE IRON, TO AWWA C110, AND SHALL BE CEMENT-MORTAR-LINED, TO AWWA C104/A21.4.
 - COMPACT DUCTILE IRON FITTINGS NOT PERMITTED ; I.E., NOT ACCEPTABLE.
- ALL PIPE SHALL BE SDR 18 PVC TO AWWA C900 (E.G., "BLUE BRUTE" OR APPROVED EQUIVALENT).
 - JOINTS SHALL BE PUSH-ON INTEGRALLY THICKENED BELL & SPIGOT TYPE, TO ASTM D3139, WITH SINGLE ELASTOMERIC GASKET TO ASTM F477.
- RESTRAIN ALL JOINTS USING TIE-RODS EXTENDING FROM FITTING LUG "EARS" TO FITTING LUG "EARS", OR FROM LUG "EARS" TO A JOINT RESTRAINT DEVICE.
 - TIE-RODS SHALL BE 19 MM MINIMAL DIAMETER, QUENCHED AND TEMPERED ALLOYED STEEL TO ASTM A354, GRADE BC ; CONTINUOUSLY THREADED AND ZINC PLATED TO ASTM B633.
 - NUTS AND INTERNALLY-THREADED-COUPPLINGS SHALL HAVE A HEAVY HEX FINISH TO ASTM A563.
 - WASHERS SHALL BE FLAT, HARDENED STEEL TO ASTM F436.
 - NUTS, COUPLINGS AND WASHER SHALL BE ZINC PLATED TO ASTM B633.
- RESTRAIN VERTICAL PIPE JOINTS WITH UNI-FLANGE SERIES 1355 (OR APPROVED EQUIVALENT) JOINT RESTRAINT DEVICE AT STRAIGHT PIPE JOINTS AND UNI-FLANGE SERIES 1300 (OR APPROVED EQUIVALENT) JOINT RESTRAINT DEVICE AT THE DUCTILE IRON FITTING ENDS.
- SUPPLY AND INSTALL RESTRAINED COUPLING (UNI-FLANGE RCPP OR APPROVED EQUIVALENT) ON VERTICAL PORTION OF EACH 2500 DR 18 PVC VERTICAL PIPE RISER. IF PIPE INSTALLED DURING SUMMERTIME AND PIPE HAS BEEN HEATED BY THE SUN, INSTALL EACH JOINT RESTRAINT DEVICE WITH 3-5mm GAP BETWEEN THE RESTRAINT RING AND THE PIPE JOINT BELL-EXPANSION.
- PAINT EXTERNAL SURFACE OF PIPE WITH EXTERNAL-USE LATEX-BASED PAINT, OR TAPE WRAP ALL EXPOSED PIPE WITH DENSO BUTYL 20 OR APPROVED EQUIVALENT, FROM 300mm BELOW EXISTING GROUND TO 300mm INSIDE BUILDING ENCLOSURE.

RESERVOIR PIPING NOTES (REFER TO DRAWING S-006):

- REDUCERS SHALL BE CONCENTRIC, DUCTILE IRON, FLANGE X FLANGE, FLAT FACE, TO ANSI / AWWA C110 / A21.10 STANDARD AND ANSI B16.1 CLASS 125 STANDARD, THAT ARE CEMENT-MORTAR-LINED TO AWWA C104. COAT LARGE, UPPER-END, FLANGE FACE AND BOLT HOLES WITH POLYURETHANE TO AWWA C222.
 - INSTALL LARGE END WITH FACE OF FLANGE FLUSH WITH FINISHED SURFACE OF INSIDE TOP OF BOTTOM SLAB OF RESERVOIR. FILL-IN BOLT HOLES AS REQUIRED WITH SIKATOP 122 PLUS OR SIMILAR NSF 61 COMPLIANT MORTAR.
- SUPPLY AND INSTALL 22 mm (7/8") BOLTS, WASHERS AND NUTS, 12 EACH, INTO BOTTOM FLANGE OF ALL REDUCERS PRIOR TO CONSTRUCTING FORMWORK AND PLACING CONCRETE, WITH BOLT HEAD AND WASHER ON TOP, AND WITH WASHER AND NUT UNDERNEATH FLANGE.
- BOLTS SHALL BE CARBON STEEL, GRADE B TO ASTM A307, HEAVY HEX FINISH, HOT DIP GALVANIZED TO ASTM A153 OR ZINC PLATED TO ASTM B633. WASHERS (ONE EACH FOR NUT AND FOR BOLT HEAD) SHALL BE FLAT HARDENED STEEL TO ASTM F436. NUTS SHALL BE CARBON STEEL, GRADE A TO ASTM A563. WASHERS AND NUTS SHALL BE HOT-DIP GALVANIZED TO ASTM A153 OR ZINC PLATED TO ASTM B633.
- OVERFLOW-PIPE INSERT-RISER AND "INVERTED" REDUCER SHALL BE SCHEDULE 40, TYPE A106 CARBON STEEL, FLANGE X FLANGE, WELD NECK OR SLIP-ON, FLAT FACE, TO ANSI/AWWA C110/A21.10 STANDARD AND TO ANSI B16.1 CLASS 125 STANDARD, ALL LINED AND COATED WITH POLYURETHANE TO AWWA C222. FL X FL SPOOL SHALL BE 806 MM LONG, AND SHALL BE INSTALLED PROJECTING 400 MM ABOVE FINISHED SURFACE OF INSIDE TOP OF BOTTOM SLAB OF RESERVOIR.
- STAINLESS STEEL BOLTS, WASHERS AND NUTS SHALL BE TYPE 304 MANUFACTURED ACCORDING TO ASTM F593 AND ASTM F594. SEE NOTE 11.
- ALL GASKETS SHALL BE MANUFACTURED FROM NATURAL RUBBER, 3.175 mm (1/8") THICK WITH LAYER OF COTTON ON EACH SIDE.
- HORIZONTAL TANK-FILLING PIPE SHALL BE TYPE 304L STAINLESS STEEL, SCHEDULE 40, 76 mm (3") NOM. DIA., 800 MM LONG, PROJECTING 500 mm FROM FINISHED SURFACE OF OUTSIDE FACE OF WALL. TEMPORARILY PLUG AND CAP ENDS.



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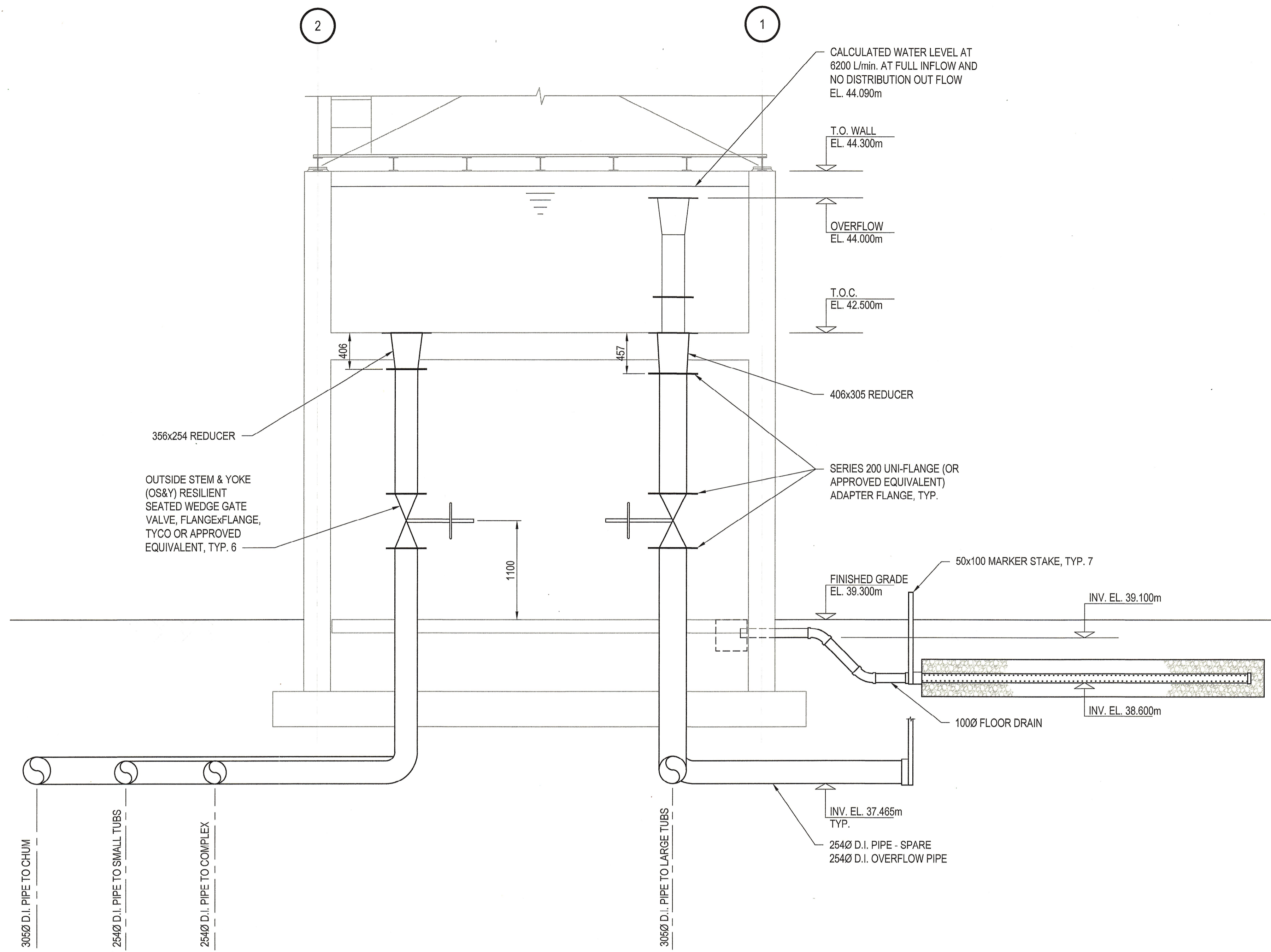
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| DRAWN | T. CHI | 12MAR2020 |
| DWG. CHECKED | J. KARLSSON | 12MAR2020 |
| DESIGNED | J. KARLSSON | 12MAR2020 |
| DES. APPR. | D. de VRIES | 12MAR2020 |

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| TITLE SNOOTLI CREEK HATCHERY FACILITY AERATION TOWER BURIED PIPING PLAN AND WATER WORKS NOTES | DRAWING No. | REV |
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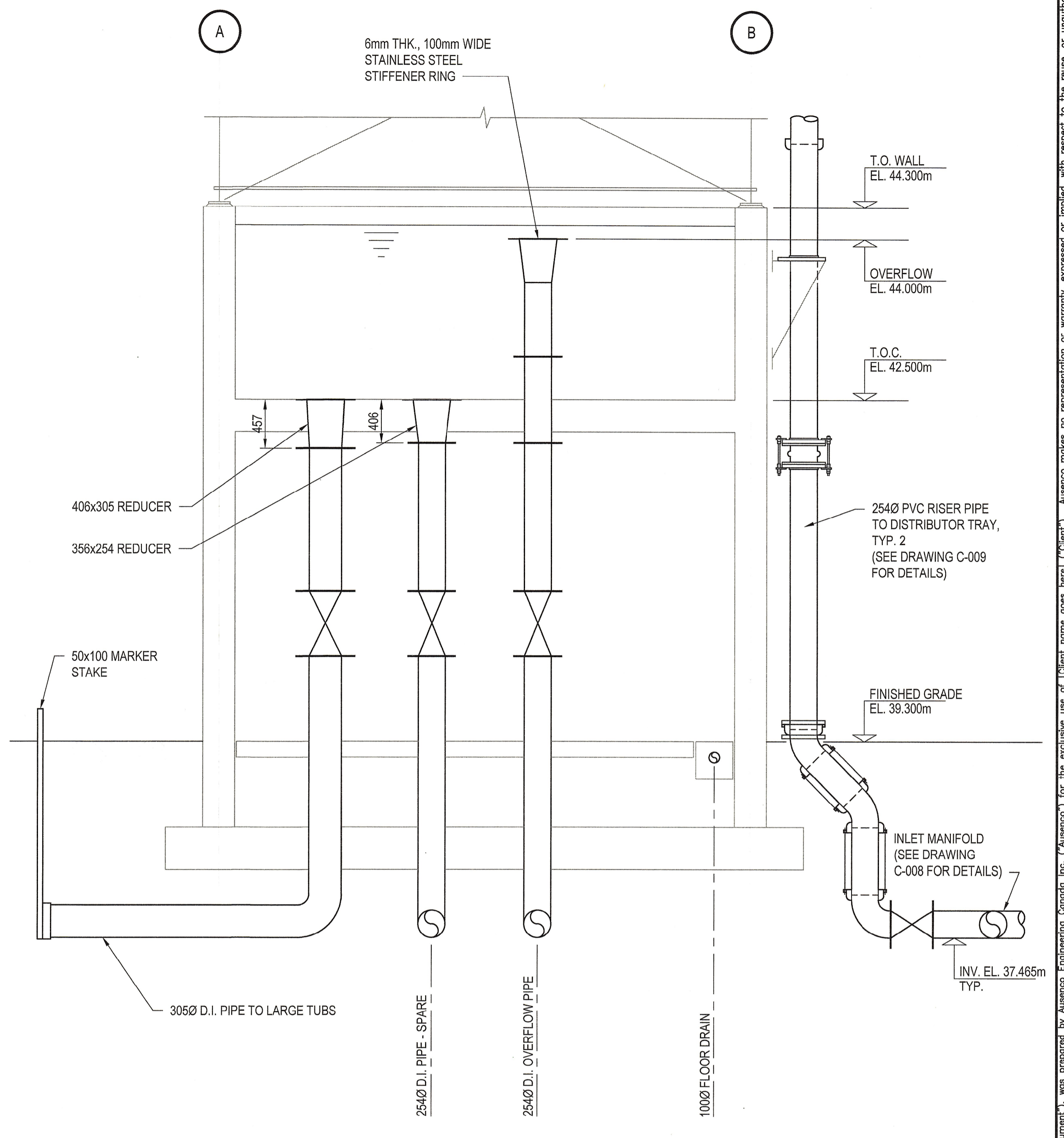
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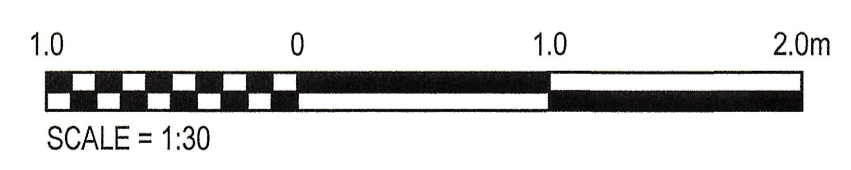


EAST ELEVATION
1:30



NORTH ELEVATION
1:30

NOTE:
1. SEE DRAWING 101944-01-0000-C-005 FOR NOTES.



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| DRAWN | T. CHI | 19MAR2020 |
| DWG. CHECKED | J. KARLSSON | 29JUL2020 |
| DESIGNED | J. KARLSSON | 19MAR2020 |
| DES. APPR. | D. de VRIES | 29JUL2020 |

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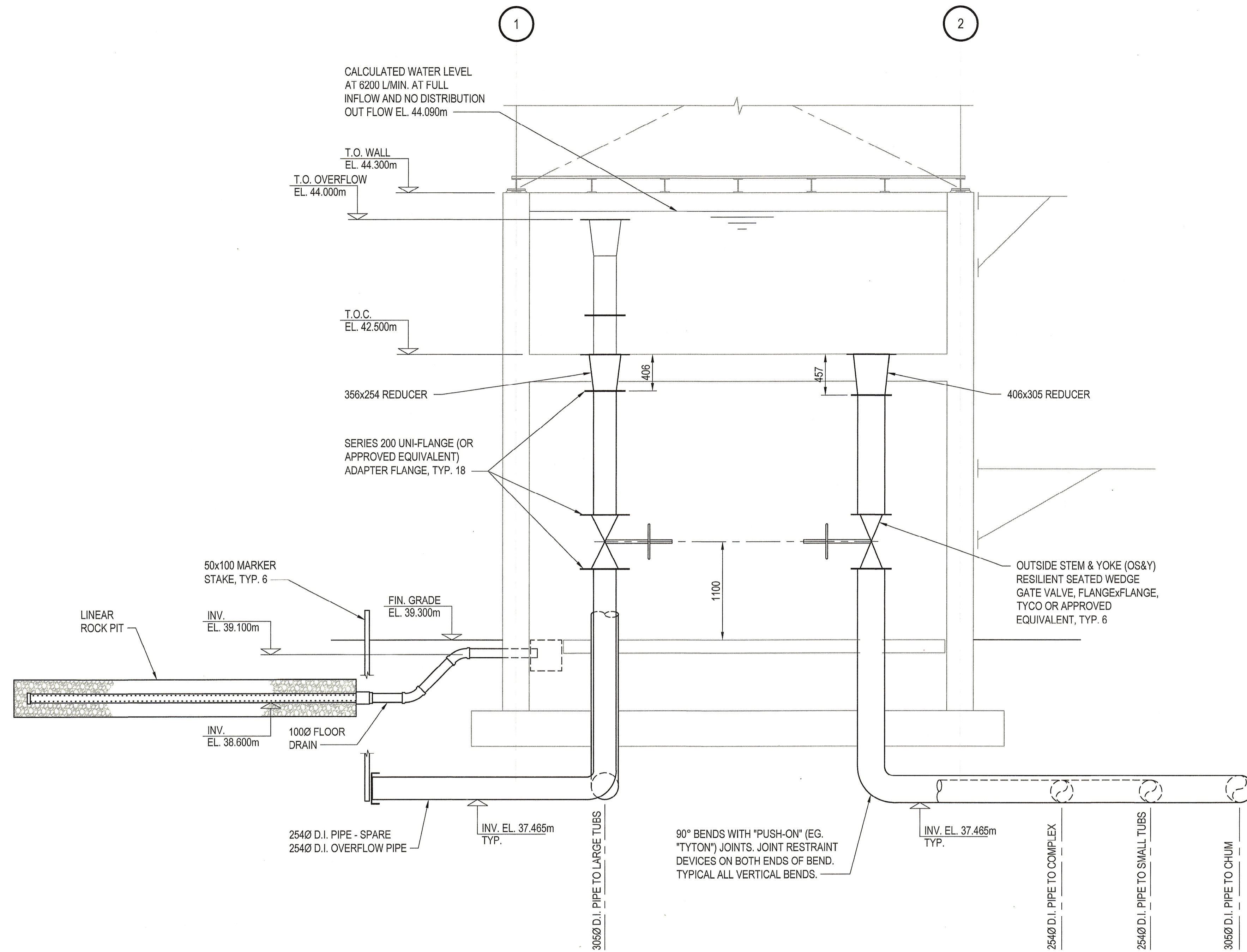


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| TITLE | SNOOTLI CREEK HATCHERY FACILITY AERATION TOWER ELEVATIONS SHEET 1 |

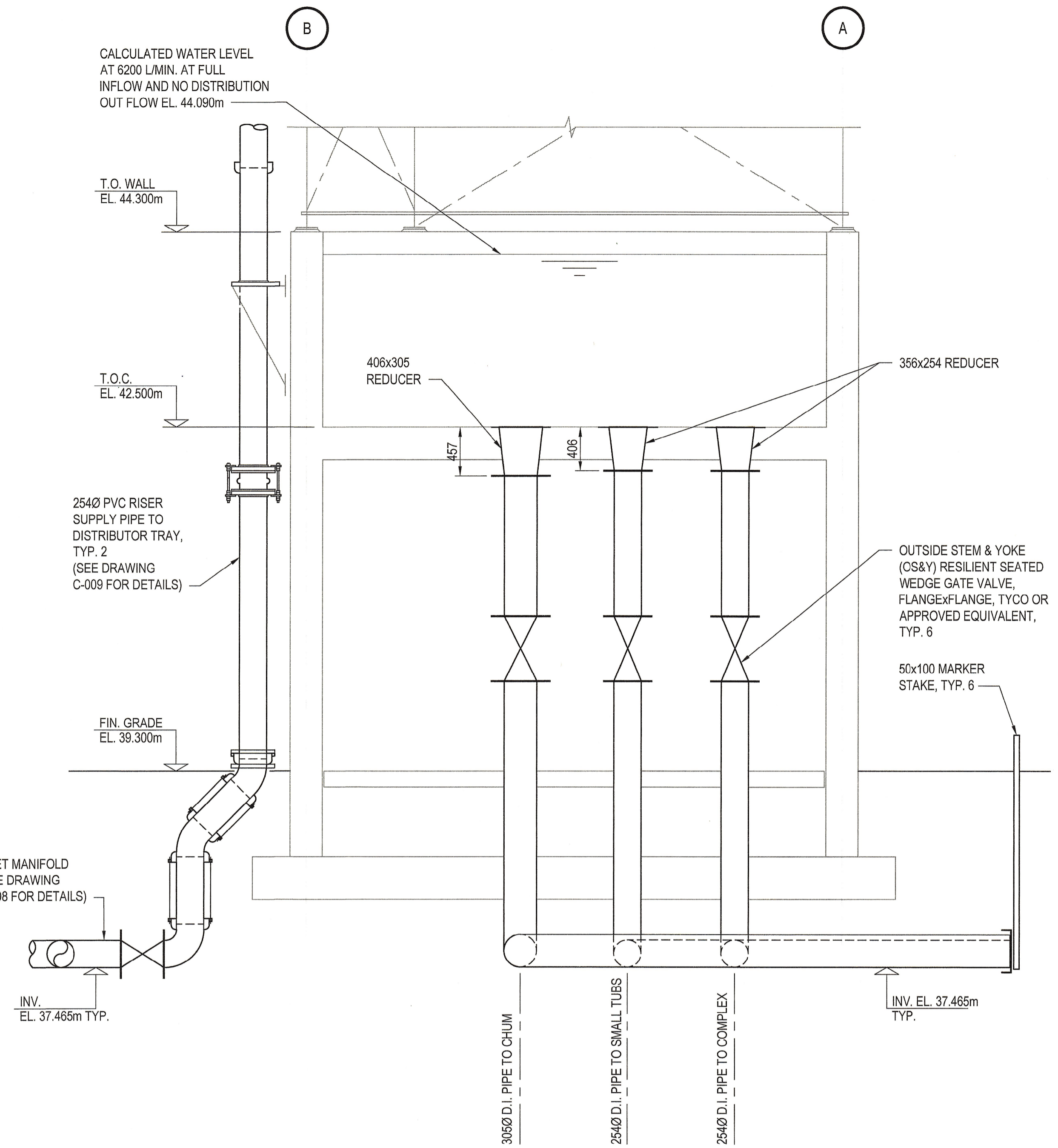
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WEST ELEVATION
1:30



SOUTH ELEVATION
1:30

NOTE:
1. SEE DRAWING 101944-01-0000-C-005 FOR NOTES.



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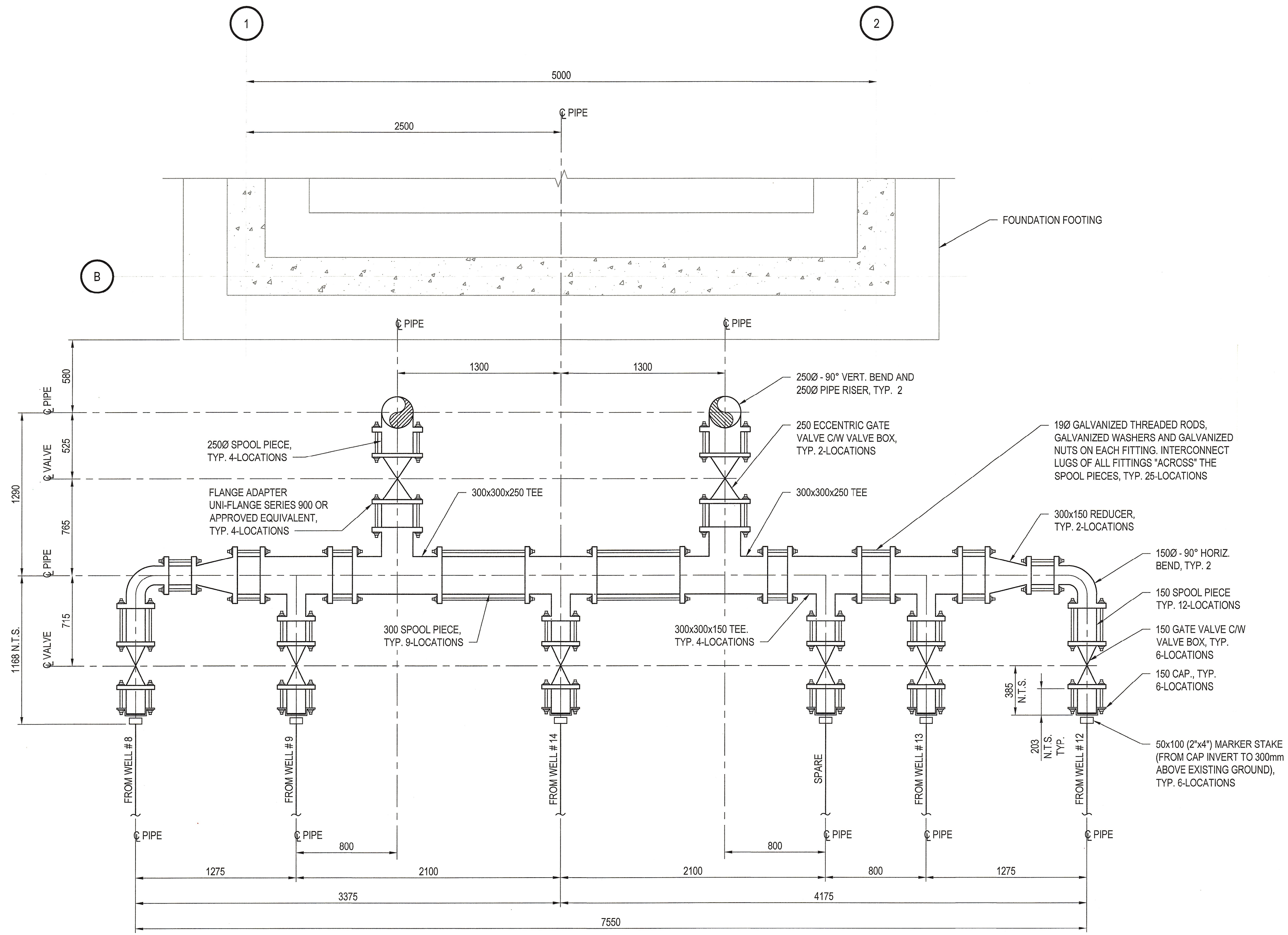
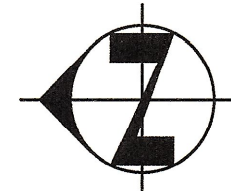
DRAWN B. THOMPSETT 25MAY2020
 DWG. CHECKED J. KARLSSON 29JUL2020
 DESIGNED J. KARLSSON 25MAY2020
 DES. APPR. D. de VRIES 29JUL2020

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 TITLE **SNOOTLI CREEK HATCHERY FACILITY
 AERATION TOWER
 ELEVATIONS
 SHEET 2 OF 2**

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PLAN
1:20

NOTE:
1. SEE DRAWING 101944-01-0000-C-005 FOR NOTES.



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| DRAWN | B. THOMPSETT | 27MAY2020 |
| DWG. CHECKED | J. KARLSSON | 29JUL2020 |
| DESIGNED | J. KARLSSON | 27MAY2020 |
| DES. APPR. | D. de VRIES | 29JUL2020 |

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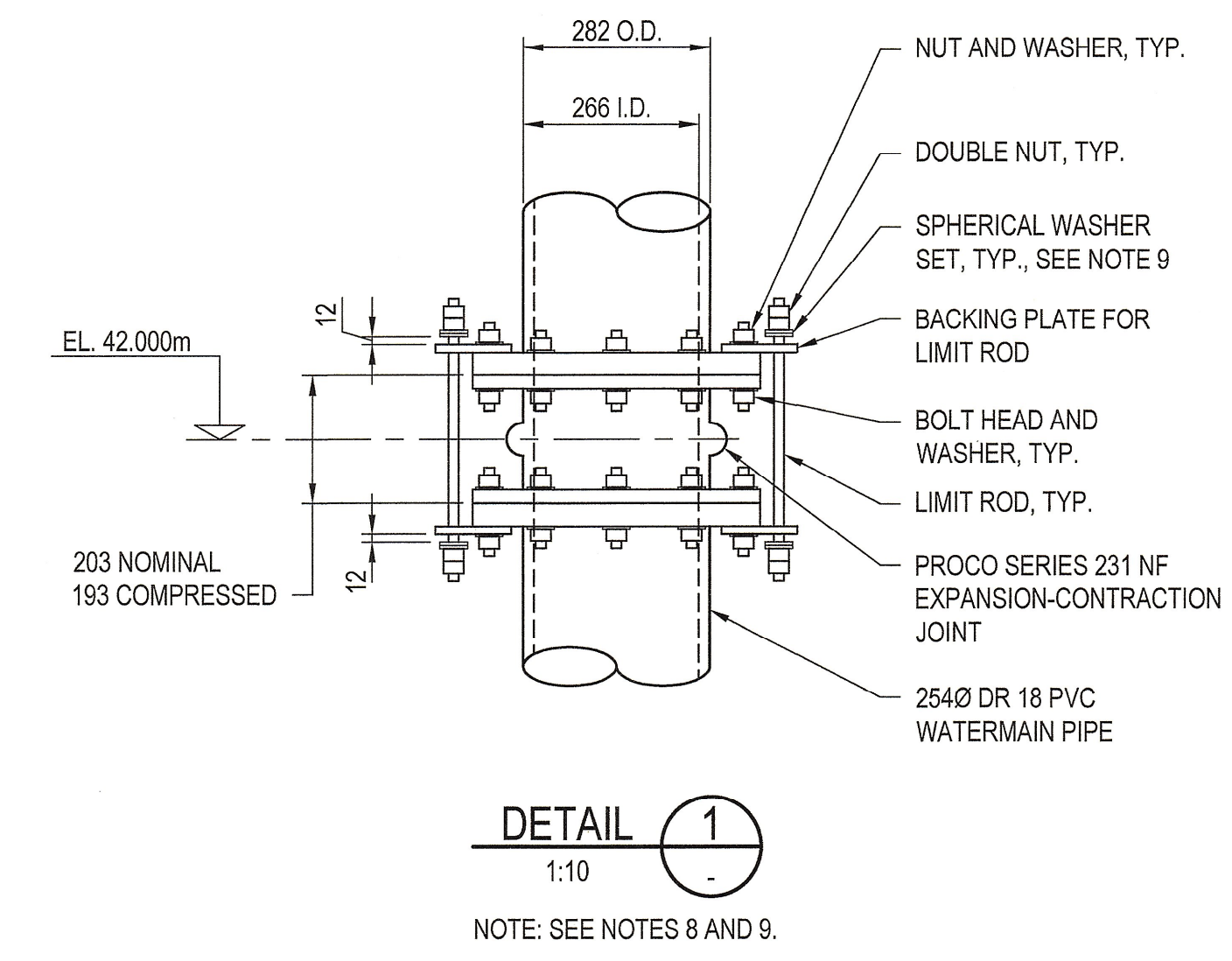
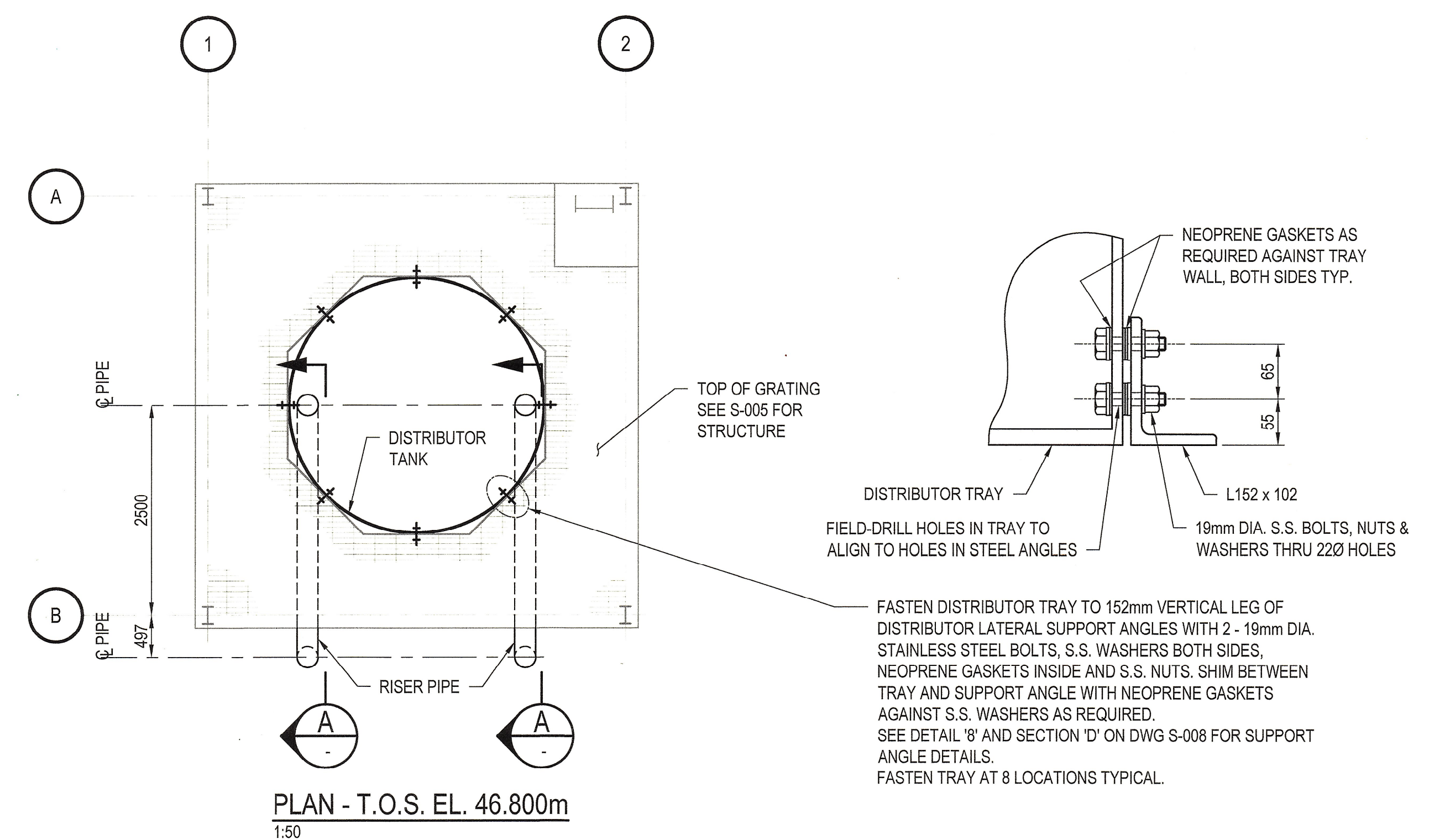
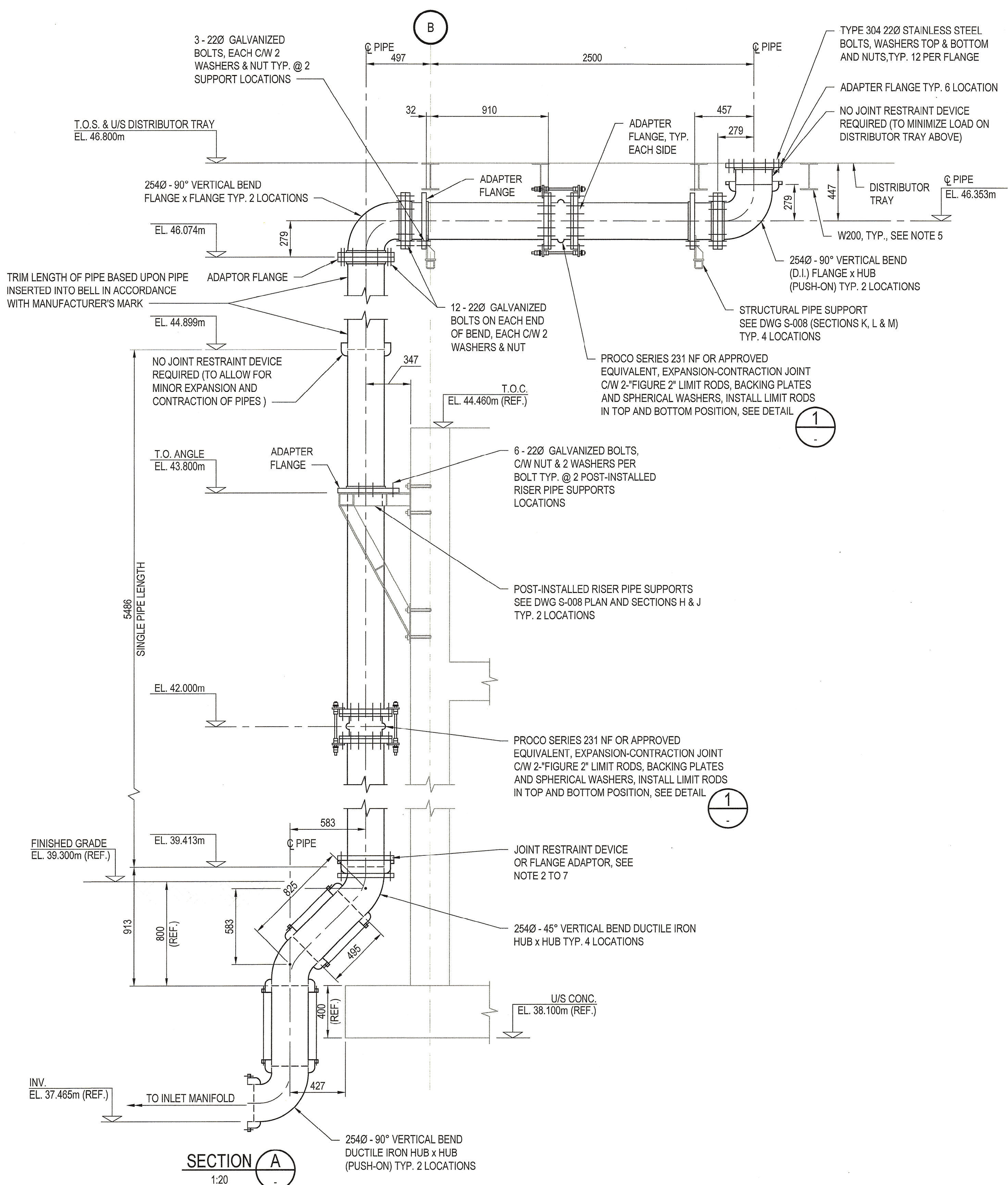


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| CLIENT | DEPARTMENT OF FISHERIES & OCEANS | | |
| TITLE | SNOOTLI CREEK HATCHERY FACILITY AERATION TOWER WELL SUPPLY PIPELINES BURIED MANIFOLD & VALVES | | |

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| 2101944-01 | AS SHOWN | D |
| DRAWING No. | REV | |
| 101944-01-0000-C-008 | E | |

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- NOTES:**
- SEE DRAWING 101944-01-0000-C-005 FOR NOTES.
 - INSERT SPIGOT INTO BELL TO THE MANUFACTURER'S MARK.
 - INSTALL JOINT RESTRAINT DEVICE, UNI-FLANGE SERIES 1390 OR APPROVED EQUAL, TIGHT AGAINST BELL OF PIPE.
 - JOINT RESTRAINT DEVICE CAN BE BOLTED TO LUGS OF BEND INSTEAD OF BEING CONNECTED TO "BACKING RING".
 - SUPPLY AND INSTALL WASHERS AND NUTS ON BOTH SIDES OF EACH CLAMPING RING.
 - ADAPTER FLANGE, UNI-FLANGE SERIES 900 OR APPROVED EQUAL, MAY BE USED INSTEAD OF JOINT RESTRAINT DEVICE. FASTEN ADAPTER FLANGE TIGHTLY TO LUGS ON BELL OF BEND.
 - FASTEN FLANGE ADAPTOR TIGHTLY TO LUGS ON BELL OF BEND.
 - USE LIMIT RODS AND PLATES TO "PRE-COMPRESS" THE JOINT TO 193mm LENGTH PRIOR TO INSTALLATION.
 - AFTER JOINT INSTALLATION, SET DOUBLE NUTS TO CREATE 12mm GAP BETWEEN OUTER FACE OF BACKING PLATE AND INNER FACE OF SPHERICAL WASHER AGAINST FIRST NUT, AT EACH END. CREATE TOTAL LIMIT ROD GAP LENGTH OF 24mm. TYPICAL ALL EXPANSION-CONTRACTION JOINT INSTALLATIONS.



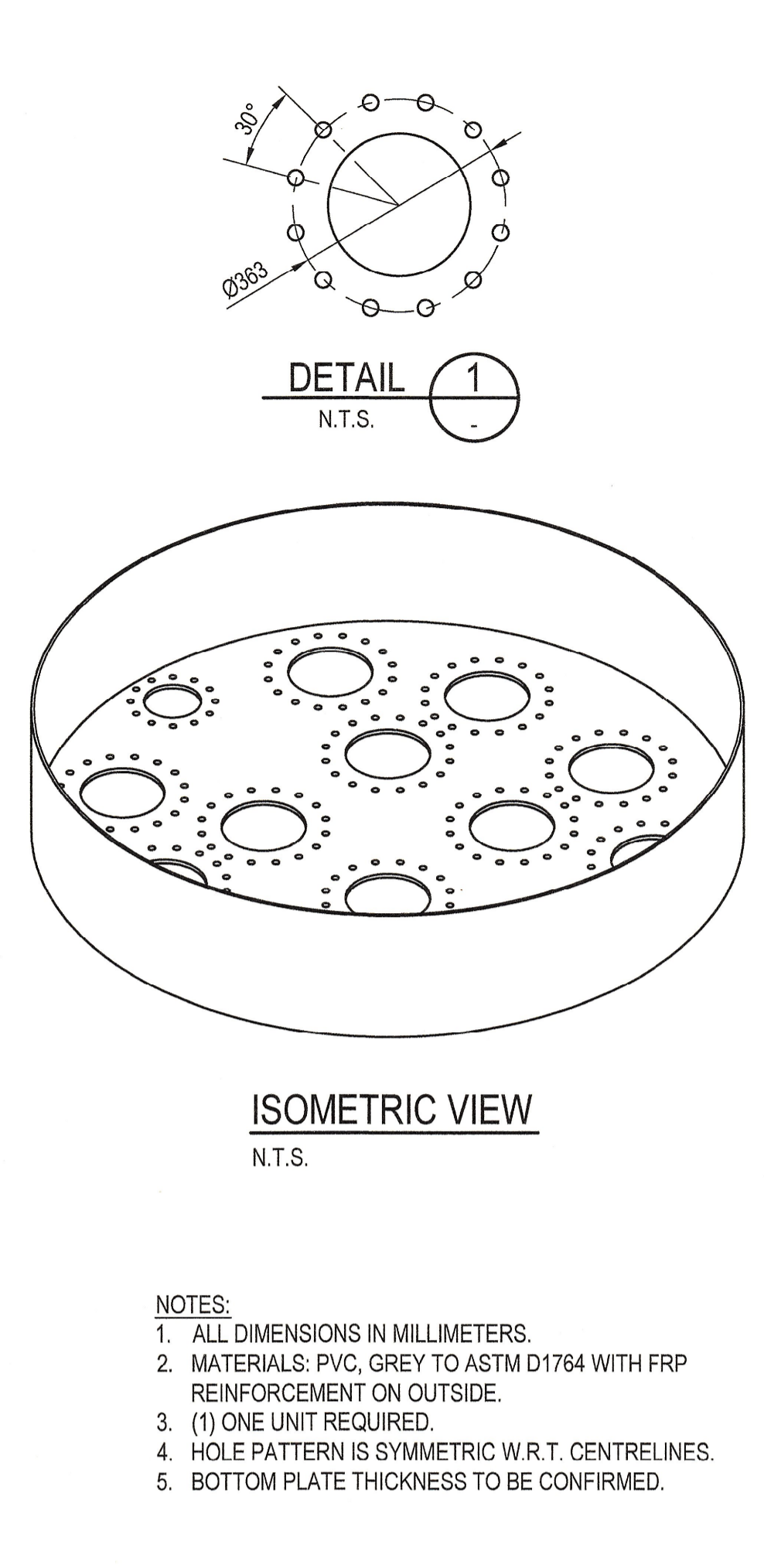
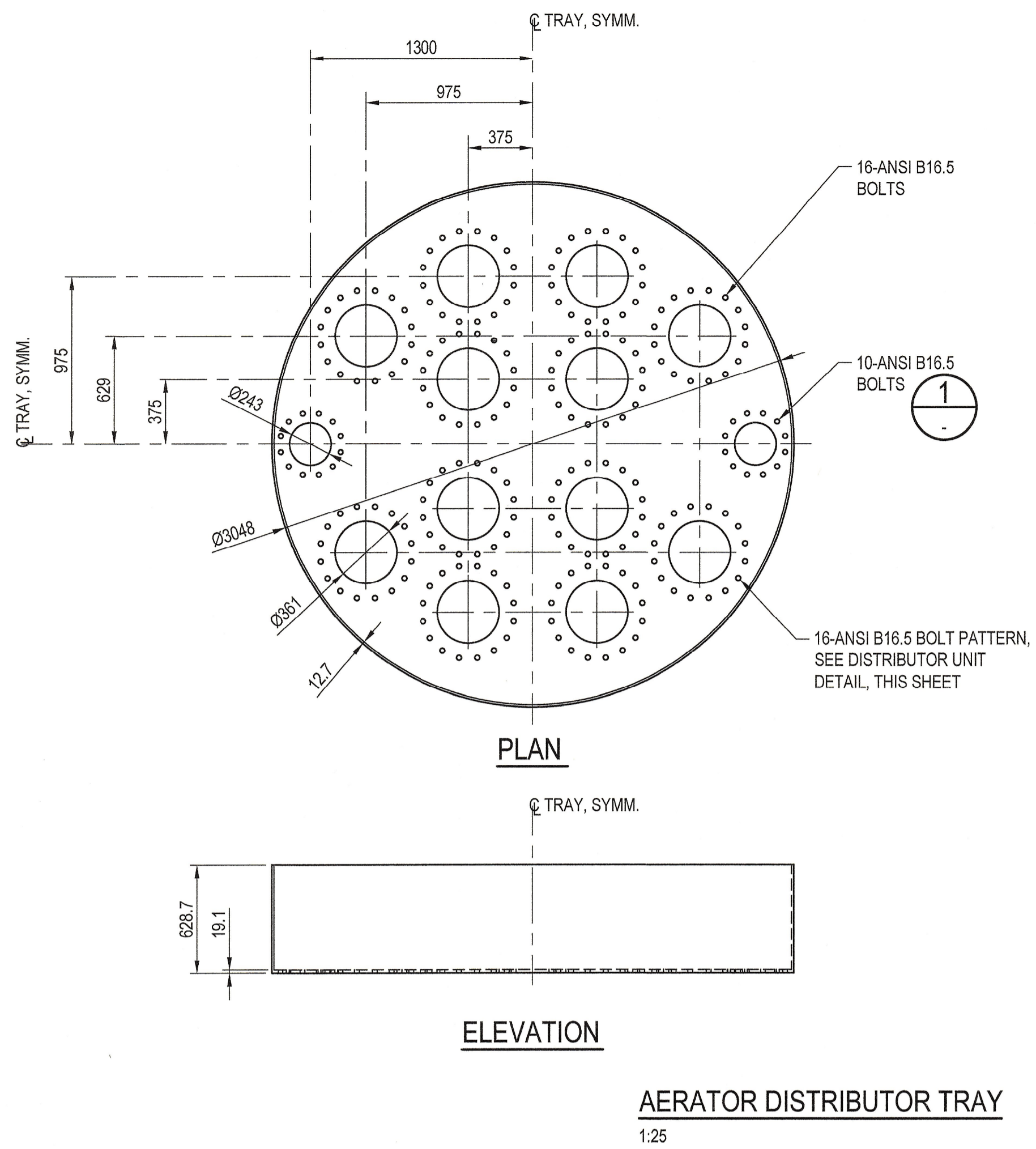
| REF. | DRAWING No. | REFERENCE DRAWING | No. | BY | DATE | REVISION DETAILS | CHKD | ENG | APPR | PROJ. APPR. |
|------|----------------------|-------------------------|-----|----|-----------|-------------------|------|-----|------|-------------|
| 1 | 101944-01-0000-S-008 | STEEL STRUCTURE DETAILS | E | JS | 07SEP2021 | ISSUED FOR TENDER | JK | JK | JK | |

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| DRAWN | B. AZIMI | 02JUL2020 |
| DWG. CHECKED | J. KARLSSON | 29JUL2020 |
| DESIGNED | J. KARLSSON | 02JUL2020 |
| DES. APPR. | D. de VRIES | 29JUL2020 |

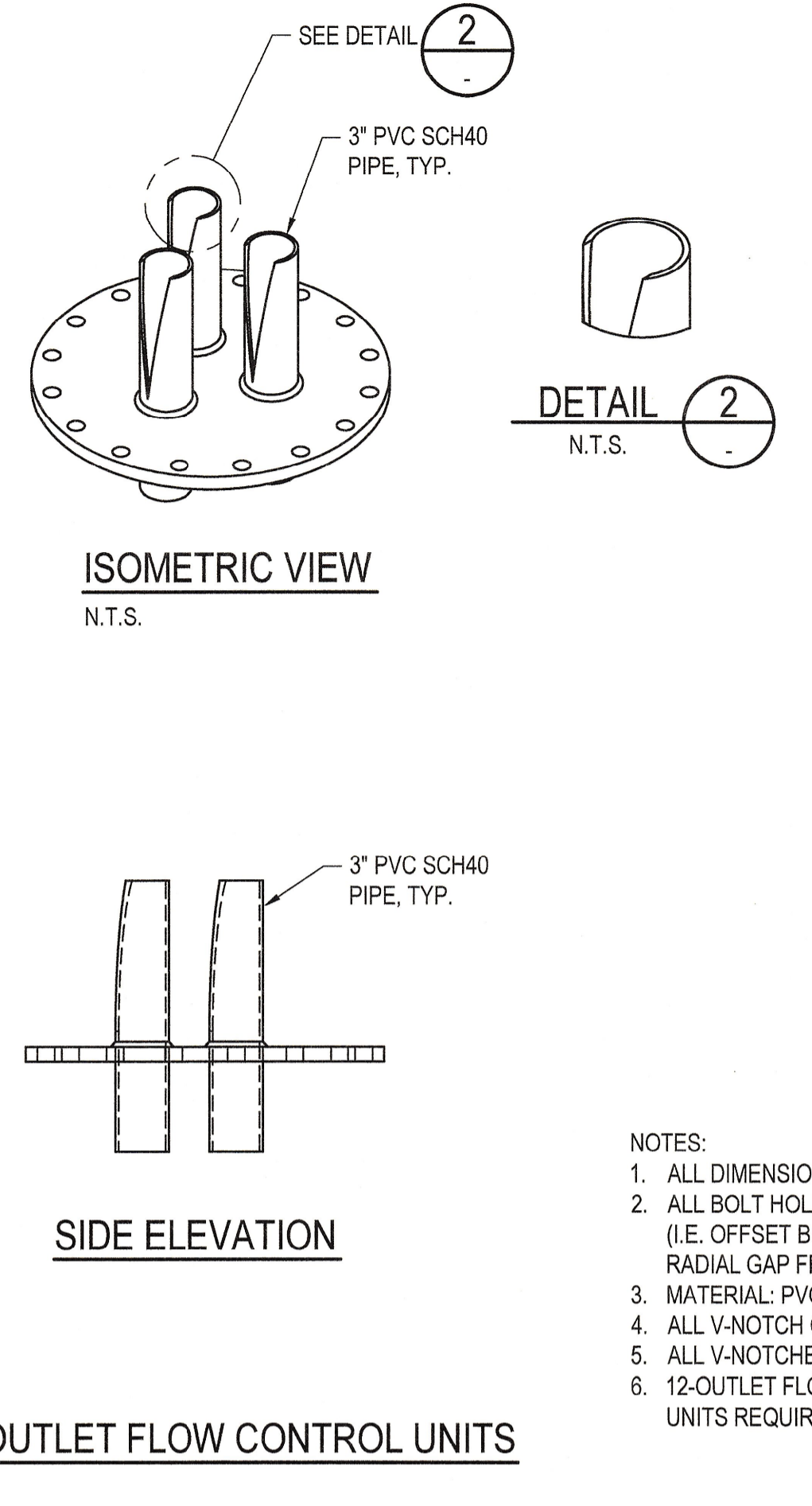
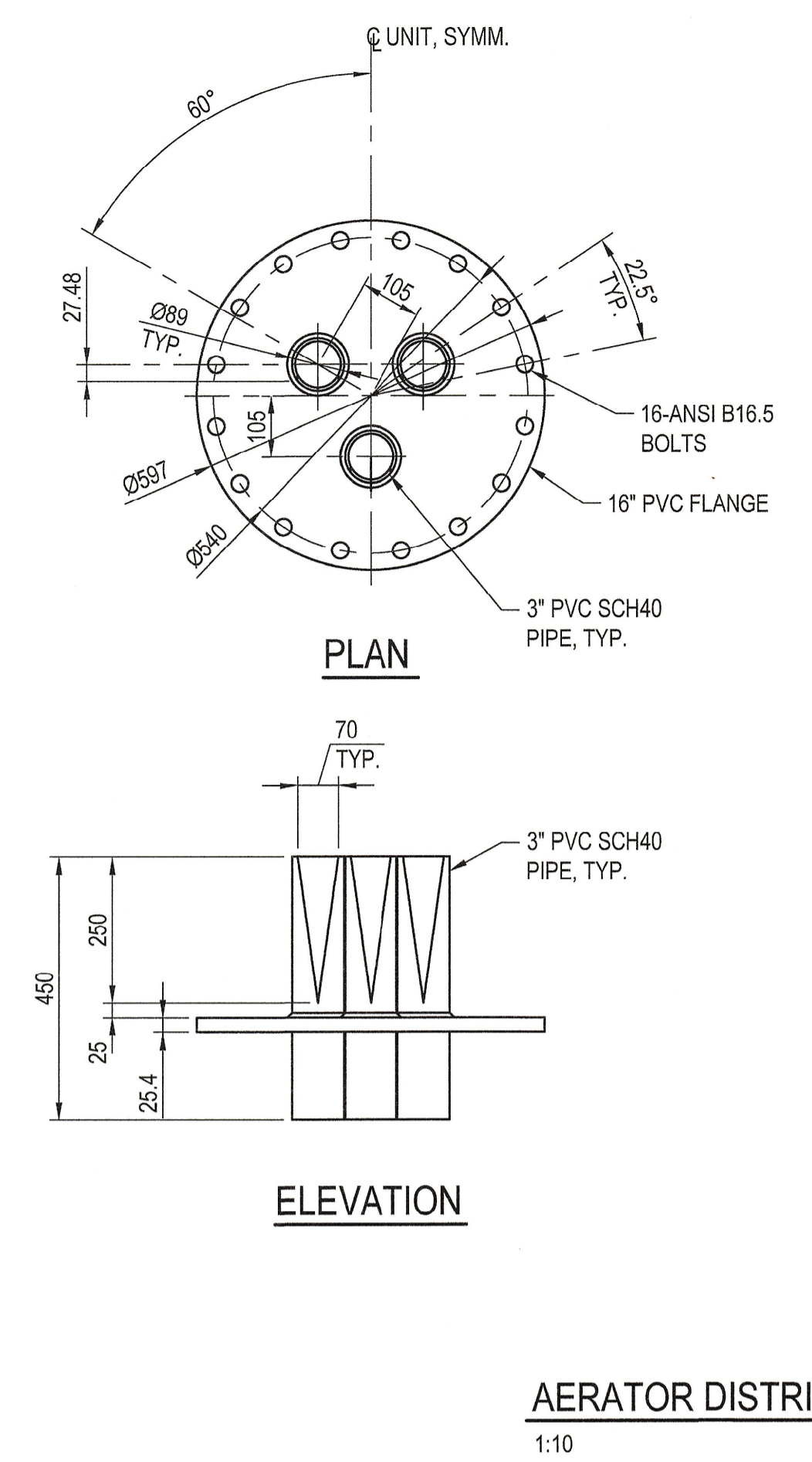
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| CLIENT | DEPARTMENT OF FISHERIES & OCEANS |
| TITLE | SNOOTLI CREEK HATCHERY FACILITY AERATION TOWER RISER SUPPLY PIPE EXPANSION AND CONTRACTION JOINT DETAILS |

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| DRAWING No. | 101944-01-0000-C-009 |
| SCALE | AS SHOWN |
| SIZE | D |
| REV | E |

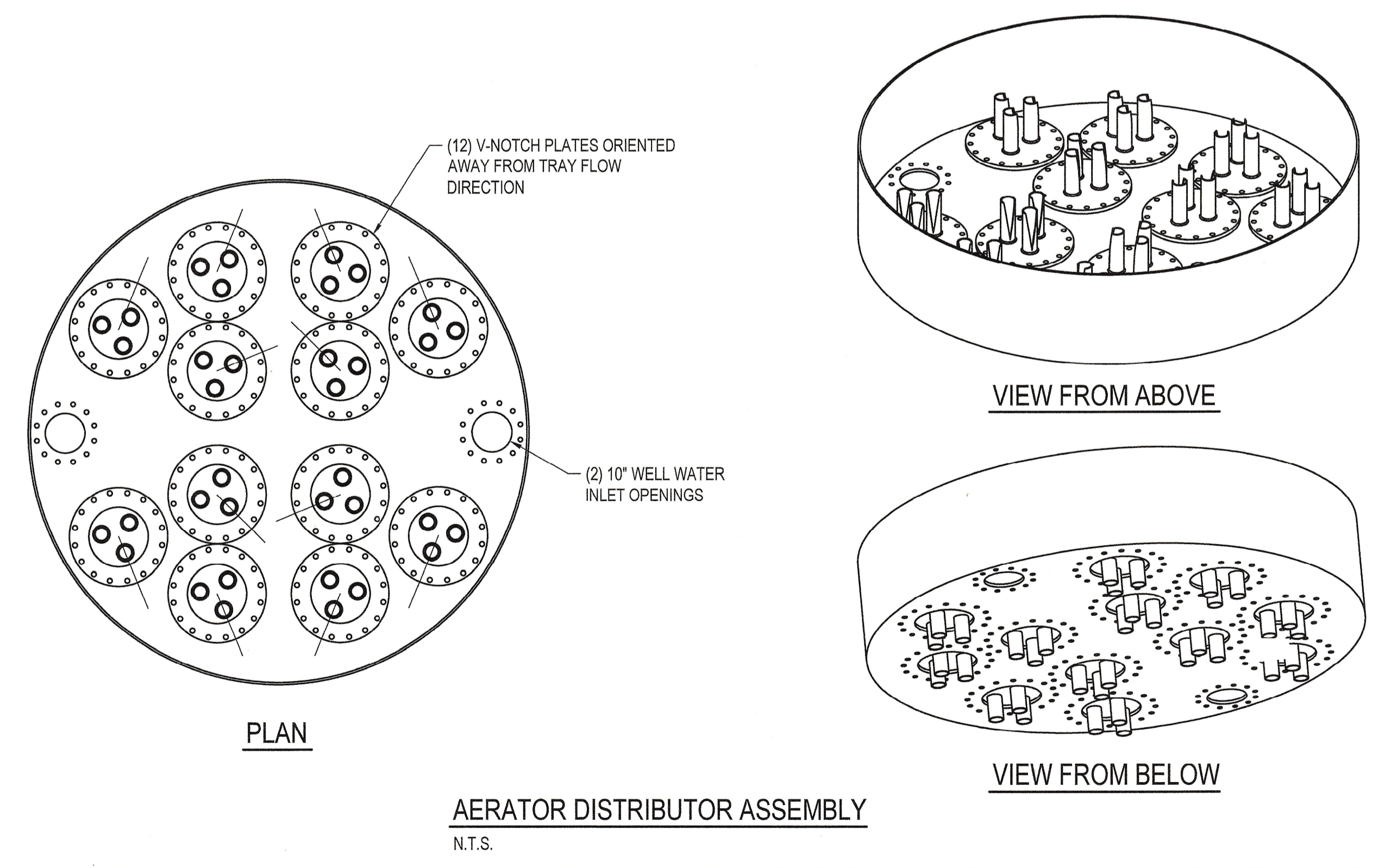
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- NOTES:
1. ALL DIMENSIONS IN MILLIMETERS.
 2. MATERIALS: PVC, GREY TO ASTM D1764 WITH FRP REINFORCEMENT ON OUTSIDE.
 3. (1) ONE UNIT REQUIRED.
 4. HOLE PATTERN IS SYMMETRIC W.R.T. CENTRE LINES.
 5. BOTTOM PLATE THICKNESS TO BE CONFIRMED.

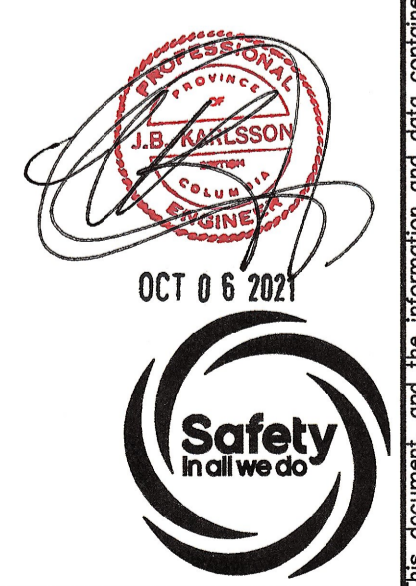


- NOTES:
1. ALL DIMENSIONS IN MILLIMETERS.
 2. ALL BOLT HOLES TO STAGGER CENTER LINES (I.E. OFFSET BOLT HOLES BY ONE-HALF OF THE RADIAL GAP FROM THE CENTER LINES).
 3. MATERIAL: PVC, GREY TO ASTM D1784.
 4. ALL V-NOTCH CUTS TO BE IDENTICAL.
 5. ALL V-NOTCHES FACE THE FRONT.
 6. 12-OUTLET FLOW CONTROL DISTRIBUTOR UNITS REQUIRED.



- NOTES:
1. ORIENTATION OF V-NOTCH UNIT IS ADJUSTABLE TO OPTIMIZE EVEN FLOW.
 2. SEE TRAY AND V-NOTCH UNIT DRAWINGS FOR DIMENSIONS.
 3. V-NOTCH UNITS HAVE FLAT FACED FLANGES.
 4. SOFT FLAT GASKETS REQUIRED TO SEAL AGAINST TRAY BOTTOM.
 5. BOLTING NOT SHOWN.

NOTE:
1. SEE DRAWING 101944-01-0000-C-005 FOR NOTES.



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|------|-------------|-------------------|-----|----|-----------|-------------------|------|-----|------|-------|-------|
| | | | | | 07SEP2021 | ISSUED FOR TENDER | | | | | |

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|--------------|--------------|-----------|
| DRAWN | B. THOMPSETT | 24JUL2020 |
| DWG. CHECKED | J. KARLSSON | 29JUL2020 |
| DESIGNED | D. de VRIES | 24JUL2020 |
| DES. APPR. | J. KARLSSON | 29JUL2020 |

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| CLIENT | DEPARTMENT OF FISHERIES & OCEANS |
| TITLE | SNOOTLI CREEK FISH HATCHERY FACILITY AERATOR TOWER AERATOR DISTRIBUTOR UNIT & TRAY |

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| SCALE | N.T.S. |
| SIZE | A1 |
| DRAWING No. | 101944-01-0000-C-010 |
| REV | E |

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