



REQUEST FOR TENDER No. 20-062

Meadowood Community Centre Construction

**Addendum 4 (17 pages)
Issued: December 3, 2020**

Closing Date & Time: on or before 3:00 PM Pacific Time on December 8, 2020

This addendum shall be read in conjunction with and considered as an integral part of the Request for Tender. Revisions supersede the information contained in the original Tender or previously issued Addendum. No consideration will be allowed for any extras due to any Vendor not being familiar with the contents of this Addendum. All other terms and conditions remain the same.

Enclosed is Addendum 4 (16 pages) from the Project Engineer, Herold Engineering Ltd.

End of Addendum 4

Attn: Kurtis Felker
Regional District of Nanaimo
6300 Hammond Bay Road
Nanaimo BC V9T 6N2

DATE: December 3, 2020

PROJECT No.: 0837-052

PROJECT NAME:

Meadowood Community Centre
1830 Galvin Place, Qualicum BC

From: Erich Streit, Arch HTL, Project Manager

Pages Following

ADDENDUM – 04

1. *This Addendum shall be read in conjunction with and considered as an integral part of the Contract Documents; revisions supersede the information contained in the original drawings, specifications or previously issued Addendum.*
2. *Tender Price submitted shall include all items of this Addendum.*
3. *No consideration will be allowed for any extras due to any bidder not being familiar with the contents of this Addendum.*

Addendum Information:

1. Project Manual – Tender Specifications:

- .1 Stipulated Price Bid – Appendix E - Separate Prices - Clarification:
Item 1: Exterior insulated wall and roof panels as specified in Section 05 12 25 Pre-engineered Steel Building Para. 2.4 Separate Prices is not to be included in the base bid tender price, but listed as a separate price item.
Items 2, 3 and 4: Separate prices for Door Canopies, Main Entrance Canopy and concrete sidewalks are to be included in the base bid tender price, but identified as a separate price for future evaluation to suit project budget
Item 5: Concrete pedestrian access pad from Galvin Place to gravel parking area has been changed to gravel surface in the updated civil drawings (dwg. C04) – no separate price required.
- .2 Refer to Section 08 36 13 Sectional Metal Overhead Doors attached to this Addendum for specifications of Door D105.

2. Updated drawings from MSR Solutions Inc. for updated well and water storage tank information:

- .1 Updated MSR drawing C02 dated 2020.11.23 is attached.
- .2 The electrical duct can be installed in the common trench to the well head location

3. Architectural Drawings:

- .1 Architectural Kitchen drawings in dwg format can be requested directly from the Architect for measurement take-off etc. if necessary: Alfred Korpershoek MSc.Arch. B.BE ask@dhk.ca
- .2 Lockable aluminum plate shutters at ground floor windows to be pre-manufactured units or custom made units to suit; shop drawing submittal required for either option.
- .3 The following products are acceptable alternatives to the flooring material specified in the architectural drawings:
 - .1 Washrooms: Polyflor – Classic Mystique Quarz 1400
 - .2 Storage Rooms: Polyflor – Classic Mystique Quarz 1400
 - .3 Main floor: Polyflor – Classic Mystique Silent Dove 1540
 - .4 065 Aria Fazed Grey CG (indicated as 605 Aria Fazed Grey in Addendum-03)

4. Structural Drawings/Questions:

- .1 Knife plates shall be CSA G40.21 grade 300W. They shall be hot-dip galvanized to CAN/CSA G164 specifications.
- .2 As there is no exposed concrete slabs within the building perimeter, there is no requirement for concrete sealer
- .3 Structural drawings identified as Structural Addendum 1 are attached to this Addendum.

5. Civil Drawings:

.1 River rock to be 150 mm minus, 300 mm deep

6. Mechanical Addendum No. 03:

.1 Refer to content of Mechanical Addendum No. 03 as per attached respective pages.

7. Electrical Addendum No, E1

.1 Refer to content of Electrical Addendum No. E1 as per attached respective pages.

Per: Erich Streit, Arch HTL

CC: Dean Banman - RDN
Mark Dobbs - RDN
BC Bid & RDN Website
All Sub-Consultants

Part 1 General

1. SUMMARY

1. Work of this section includes provision of:
 1. General Overhead Door Materials.
 2. Sectional Overhead Insulated Doors.
 3. Commercial Duty Hardware.
 4. Electrical operator.

2. RELATED REQUIREMENTS

- .1 Section 26: Electrical power supply.

3. REFERENCES

1. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2017.
2. ASTM D523 - Standard Test Method for Specular Gloss; 2014.
3. ASTM D822/D822M - Standard Practice for Filtered Open-Flame Carbon-Arc Exposures of Paint and Related Coatings; 2013.
4. ASTM E283 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2004 (Reapproved 2012).
5. CAN/CSA G164 M92 - Hot Dip Galvanizing of Irregularly Shaped Articles; 2003.
6. American Society for Testing and Materials International, (ASTM)
 1. ASTM A653/A653M-15e1, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 2. ASTM A1008/A1008M-15, Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable.
 3. ASTM D523-14, Standard Test Method for Specular Gloss.
7. Canadian Standards Association (CSA International)
 - .1 CAN/CSA G164-M92 (R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.

4. SUBMITTALS

1. Provide submittals in accordance with Section 01 33 00 - Submittals.
2. Submit product data:
 1. Submit manufacturer's printed product literature, specifications and datasheet.
 2. Door operator motor information indicating nameplate data and ratings, characteristics, and mounting arrangements.
3. Submit shop drawings:
 - .1 Indicate sizes, service rating, types, materials, operating mechanisms, glazing locations and details, hardware and accessories, required clearances and electrical connections.
4. Manufacturer's Instructions:
 - .1 Submit manufacturer's installation instructions.

5. Manufacturers' Field Reports: submit copies of manufacturers field reports.

5. CLOSEOUT SUBMITTALS

- .1 Provide operation and maintenance data for overhead door hardware for incorporation into Operations and Maintenance Manual.

6. QUALITY ASSURANCE

1. Installer Qualifications: Company or person specializing in installation of sectional overhead doors with 5 years documented experience and approved by door manufacturer.
2. Manufacturer: Obtain sectional overhead doors and component materials through one source from single manufacturer and as follows:
 1. Obtain operators from sectional overhead door manufacturer.
 2. Obtain controls from sectional overhead door manufacturer.

7. DELIVERY, STORAGE AND HANDLING

- .1 Deliver, handle, store and protect materials in accordance with Section 01 61 00 – Common Product Requirements.

8. WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for recycling and disposal in accordance with Section 01 74 21 Construction Waste Management And Disposal.

9. WARRANTY

- .1 Provide manufacturers 10 year warranty against delamination of panels.

10. MAINTENANCE SERVICE

1. Provide complete service and maintenance of door system for 12 months commencing from date of Occupancy Permit issue
2. Provide emergency call back service regular working hours.
3. Perform maintenance work using competent personnel, under supervision and in direct employ of door manufacturer.

Part 2 Products

1. MANUFACTURERS

1. Acceptable manufacturers:
 1. Atlas Roll-Lite Overhead Doors.
 2. Creative Door Services Ltd.
 3. Overhead Door Company.
 4. Richards-Wilcox Canada Inc.
 5. Steel-Craft Door Products Ltd.

2. PERFORMANCE/DESIGN CRITERIA

1. Design Requirements:
 1. Design exterior door assembly to withstand wind load in accordance with loads prescribed in the BC Building Code for geographic area of project with a maximum horizontal deflection of 1/240 of opening width.
 2. Air Infiltration: Maximum rate not more than 0.025 L/s/m² at 25 kph and 0.04 L/s/m² at 40 kph when tested in accordance with ASTM E283.

3. Design door assembly to withstand minimum 50,000 cycles per annum, and 5 years total life cycle.

3. MATERIALS

1. Overhead Door Panels: galvanized steel sheet to ASTM A653/A653M commercial quality Z180 zinc coating.
2. Tracks and Accessories: coated (galvanized), cold rolled, commercial steel (CS) sheet, in accordance with ASTM A653/A653M, Z180 coating designation.
3. Cable: multi-strand galvanized steel aircraft cable.

4. SECTIONAL OVERHEAD INSULATED DOORS

1. Sectional door materials:
 1. Door Assembly: Metal/foam/metal sandwich panel construction, with PVC thermal break and weather-tight ship-lap design meeting joints.
 2. Panel Thickness: 2 inches (51 mm).
 3. Exterior Surface: Flush, textured.
 4. Exterior Steel: .015 inch (.38 mm), hot-dipped galvanized.
 5. End Stiles: 16 gauge with thermal break.
 6. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.
 7. Thermal Values: U-value of 0.31 (I-P)

5. COMMERCIAL DUTY HARDWARE

1. Track: standard hardware with 50 mm size minimum 1.9 mm core thickness galvanized steel track.
2. Lift type: refer to drawings.
3. Track Supports: 2.3 mm core thickness continuous galvanized steel angle track supports.
4. Spring counter balance: heavy duty oil tempered torsion spring with manufacturers standard brackets.
 1. Drum: 100 mm diameter die cast aluminum.
 2. Shaft: 25 mm diameter galvanized steel.
5. Top roller carrier: galvanized steel minimum 2.28 mm thick adjustable.
6. Rollers: polyurethane, full floating, grease packed, ball bearing minimum 50 mm diameter.
7. Roller brackets: adjustable, galvanized steel, minimum 2.5 mm thick.
8. Hinges: commercial duty minimum 1.9 mm thick, as recommended by manufacturer.
9. Cable: minimum 3 mm diameter galvanized steel aircraft cable.

6. ACCESSORIES

1. Overhead horizontal track and operator supports: galvanized steel, type and size to suit installation.
2. Track guards: 5 mm thick formed sheet 1500 mm high track guards.
3. Finish ferrous hardware items with minimum zinc coating of 300 g/m² to CAN/CSA G164 M92.

7. DOOR PANEL FINISH

1. Prefinished steel with factory applied polyvinyl chloride.
 1. Colour: selected by Consultant from manufacturer's standard range.
 2. Specular gloss: 30 units +/-5 in accordance with ASTM D523
 3. Coating thickness: not less than 200 micrometres.
 4. Resistance to accelerated weathering for chalk rating of 8, colour fade 5 units or less and erosion rate less than 20% to ASTM D822/D822M as follows:
 1. Outdoor exposure period 5000 hours.
 2. Humidity resistance exposure period 5000 hours.

8. ELECTRICAL OPERATOR

1. Electrical jack shaft type operator.
2. Electrical motors, controller units, remote pushbutton stations, relays and other electrical components: to CSA approval.
3. Motor: Medium Duty ½ HP, 115 Volt Single Phase; with automatic reset thermal overload protection, high starting torque, continuous duty motor; separate from reduction mechanism; factory pre-wired motor controls, starter; rated for door size and usage classification.
4. Entrapment Protection: pneumatic safety reverse and photo electric beams.
5. Operation:
 1. Remote pushbutton stations: surface mounted inside garage.
 2. Radio Control Station: Frequency Operated Button. Provide two for each unit.
6. Safety switch: combination roll rubber with limit switches for full length of bottom rail of bottom section of door, to reverse door to open position when coming in contact with object on closing cycle.
7. For jack shaft operators:
 1. Provide floor level disconnect device to allow for manual operation in event of power failure.
 2. Equip Operator with:
 1. Electrical interlock switch to disconnect power to operator when in manual operation.
 2. Built-in chain hoist for manual operation in event of power failure.
8. Automatic illumination complete with time delay, self-extinguishing.
9. Door speed: 300 mm per second.
10. Control transformer: for 24 VAC control voltage.
11. Mounting brackets: galvanized steel, size and gauge to suit conditions.
12. Acceptable materials:
 1. Chamberlain Lift-Master, Inc.
 2. Doorlec Corporation.
 3. Lynx Commercial Operators.
 4. Manaras Commercial Operators.

Part 3 Execution

1. MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

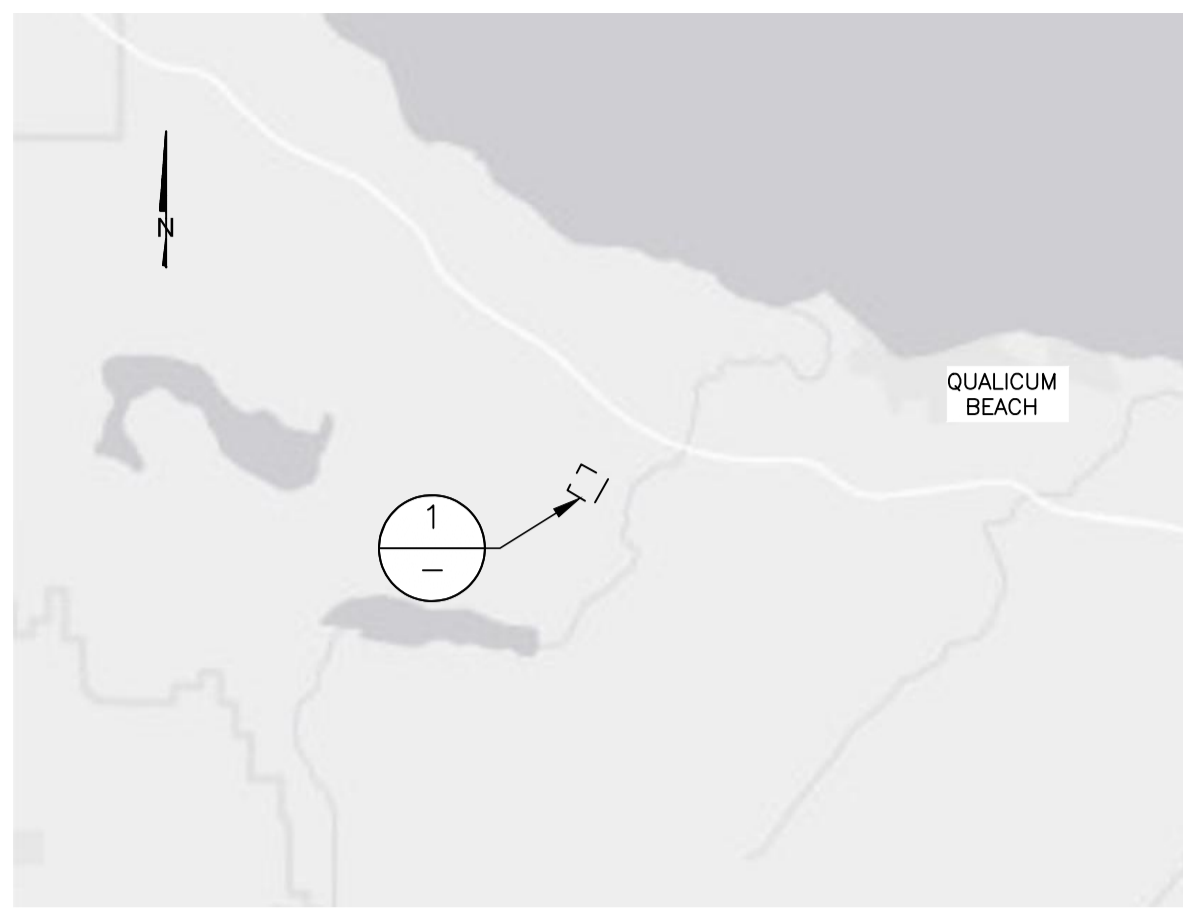
2. INSTALLATION

1. Install doors and hardware in accordance with manufacturer's instructions.
2. Rigidly support rail and operator and secure to supporting structure. Provide steel/metal support components to connect to structure shown on detailed drawings.
3. Install operator including electrical motors, controller units, pushbutton stations, relays and other electrical equipment required for door operation.
4. Lubricate and adjust door operating components to ensure smooth opening and closing of doors.
5. Adjust weather-stripping to form a weather tight seal.
6. Adjust doors for smooth operation.

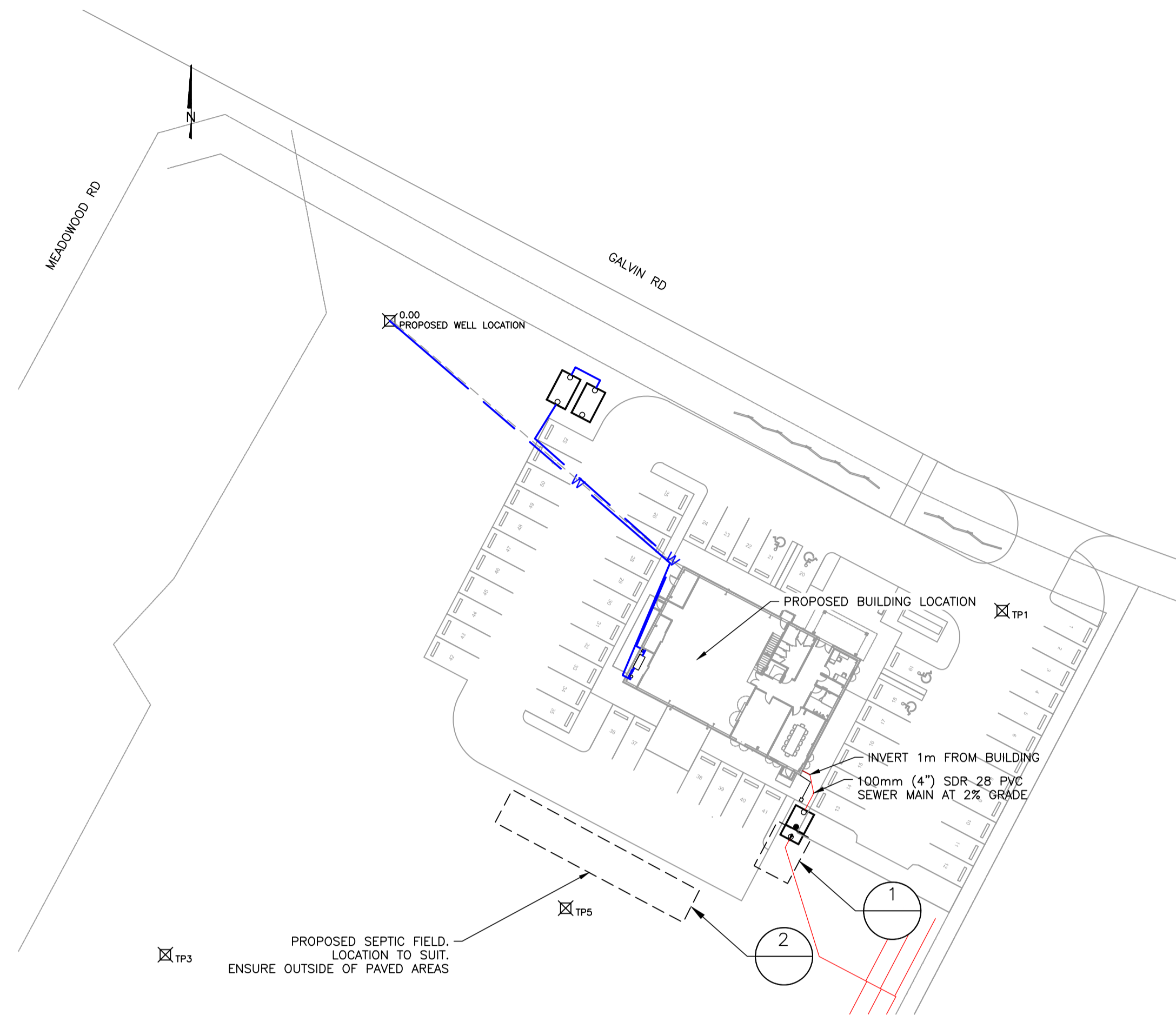
3. CLEANING

1. Perform cleaning after installation to remove construction and accumulated environmental dirt.
2. Remove traces of primer, caulking; clean doors and frames.
3. Clean glass and glazing materials with approved non-abrasive cleaner.
4. Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

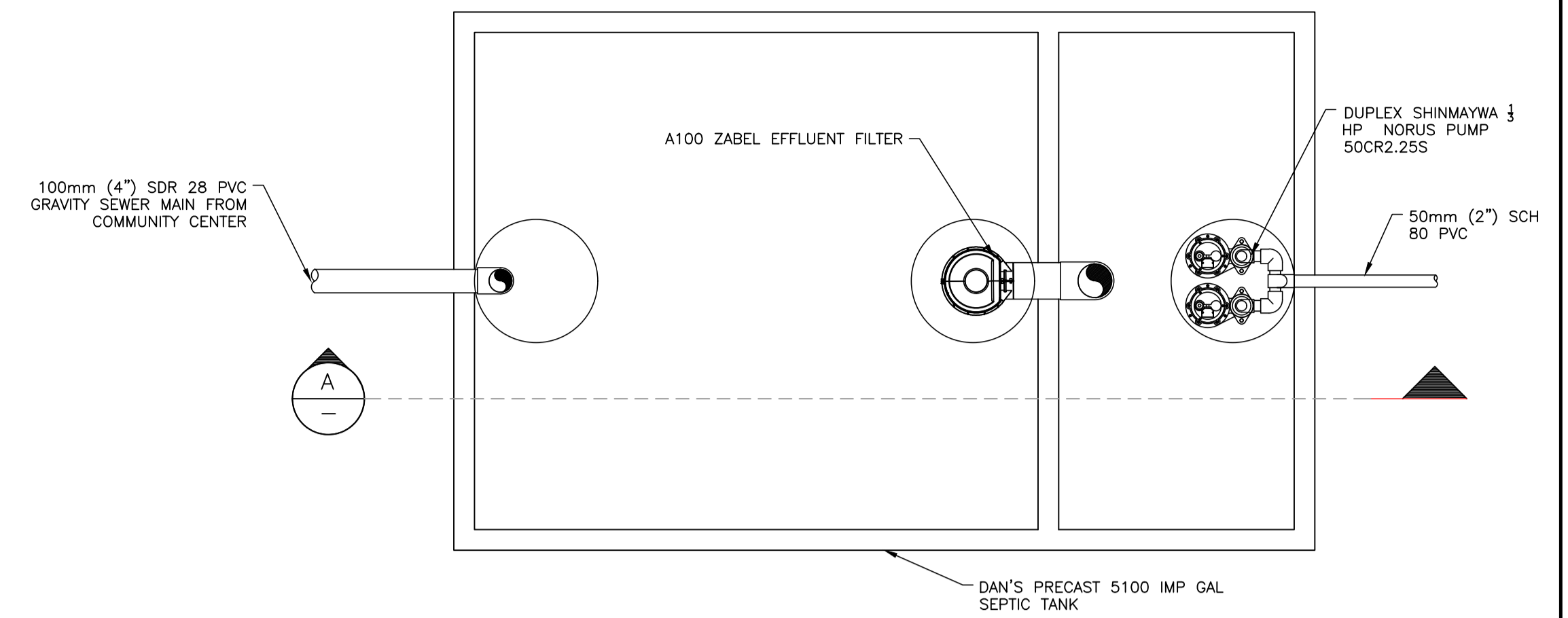
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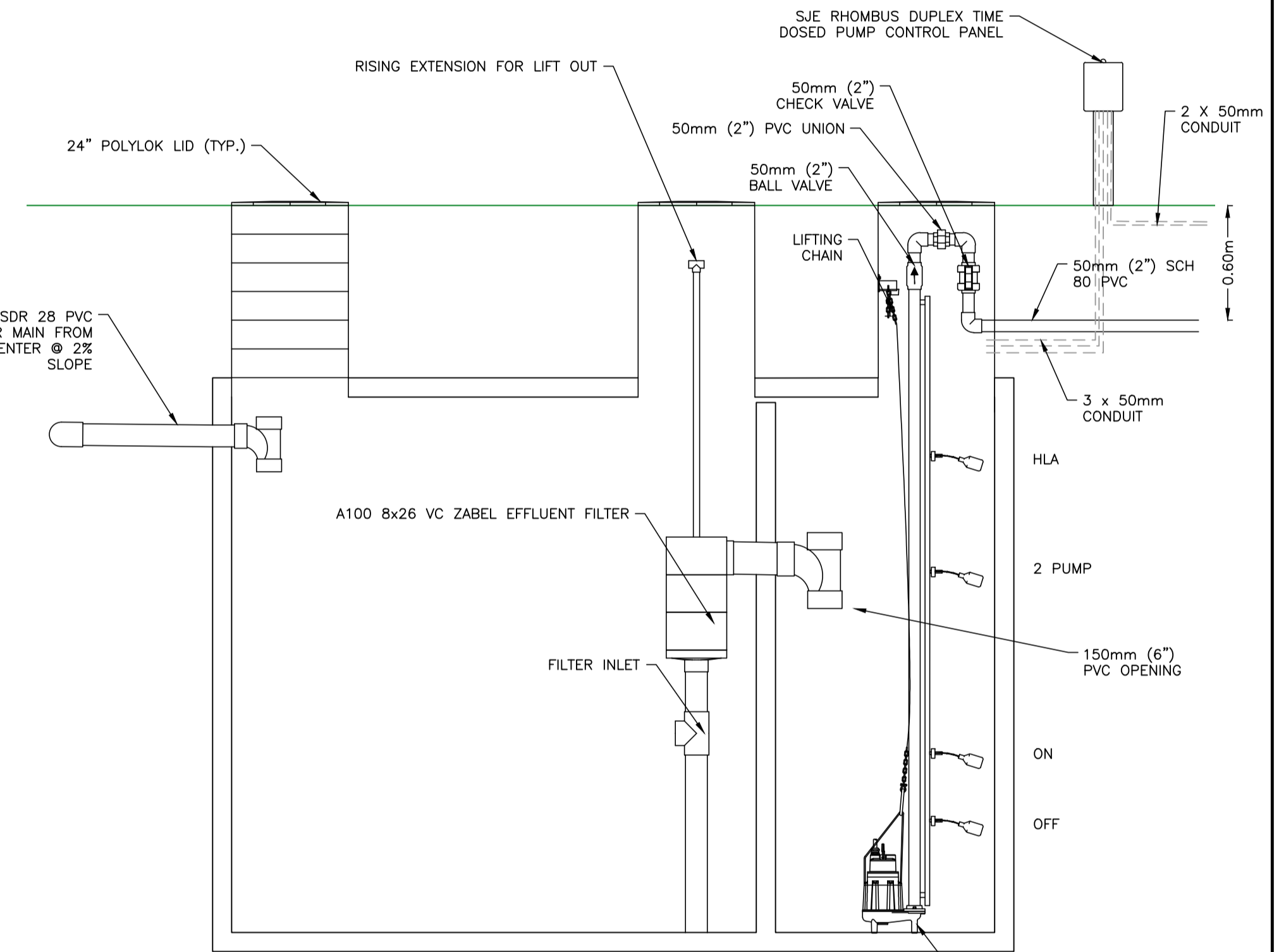
LOCATION PLAN
SCALE: NTS



SITE PLAN
SCALE: 1:500



SEPTIC TANK PLAN
SCALE: 1:25



SEPTIC TANK PROFILE
SCALE: 1:25

GENERAL NOTES

1. WORK TO BE COMPLETED DURING DRY WEATHER ONLY
2. CONTRACTOR TO ENSURE ALL SPECIAL USE PERMITS ARE IN PLACE PRIOR TO CONSTRUCTION
3. ALL WORKS TO BE COMPLETED AS PER CURRENT STANDARDS AS PER LATEST EDITION OF STANDARD PRACTICE MANUAL
4. ANY CONFLICTS BETWEEN THESE DRAWINGS AND SITE CONDITIONS TO BE REPORTED TO ENGINEER PRIOR TO CONSTRUCTION
5. ALL UTILITIES TO BE LOCATED PRIOR TO SYSTEM INSTALLATION. WATER LINE TO BE SLEEVED IF WITHIN 3.0m OF NEW DISPOSAL FIELD (OR RELOCATED)
6. ALL THE CONSTRUCTION TO BE IN ACCORDANCE WITH THE MANUFACTURER'S LITERATURE ON BACKFILL AND COMPACTION
7. ALL EQUIPMENT TO BE MADE SURFACE ACCESSIBLE WITH APPLICABLE RISERS AND LIDS. MINIMUM INSULATION TO BE 100mm RIGID STYROFOAM CUT TO SUIT

DISPOSAL FIELD NOTES

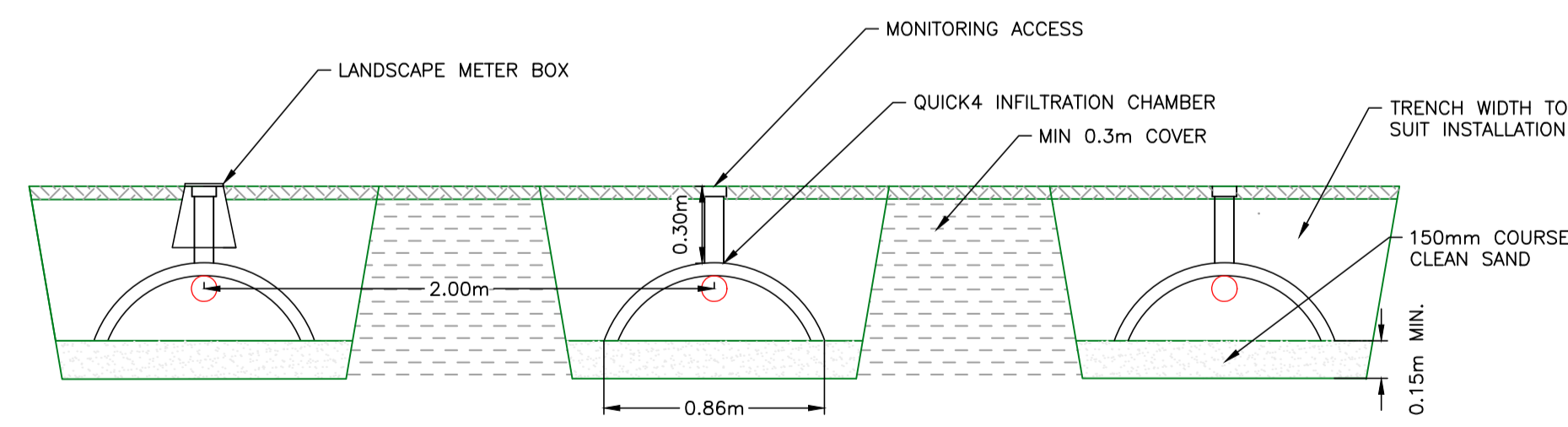
1. RECEIVING AREA TO BE PROPERLY PREPARED. CHAMBERS TO BE PLACED DIRECTLY ON SCARIFIED TRENCH BOTTOM.
2. SLOPE OF THE LONG AXIS OF ANY INDIVIDUAL LATERAL MUST BE WITHIN 1%. LATERALS TO BE INSTALLED PERPENDICULAR TO SLOPE.
3. SOIL BACKFILL TO BE MOUND TO ALLOW FOR SETTLING. DIRECT SURFACE RUNOFF AWAY FROM DISPOSAL AREA, SOME GRADING OF UPSLOPE AREAS MAY BE REQUIRED TO DIRECT SURFACE WATER AWAY FROM DISPOSAL FIELD.
4. INSULATE PIPE TO DISPOSAL FIELD WITH ALUMINIZED BUBBLE WRAP INSULATION.
5. ALL DISTRIBUTION BOXES TO BE INSTALLED WITH RISERS TO THE SURFACE.

CONTRACTOR TO SELECT METHOD FOR INSTALLATION AND CONSTRUCT ON BOTH SIDES. TOTAL REQUIREMENT: 3 LATERALS, WITH 34 INFILTRATOR SEGMENTS AND ONE END CAP PER LATERAL.

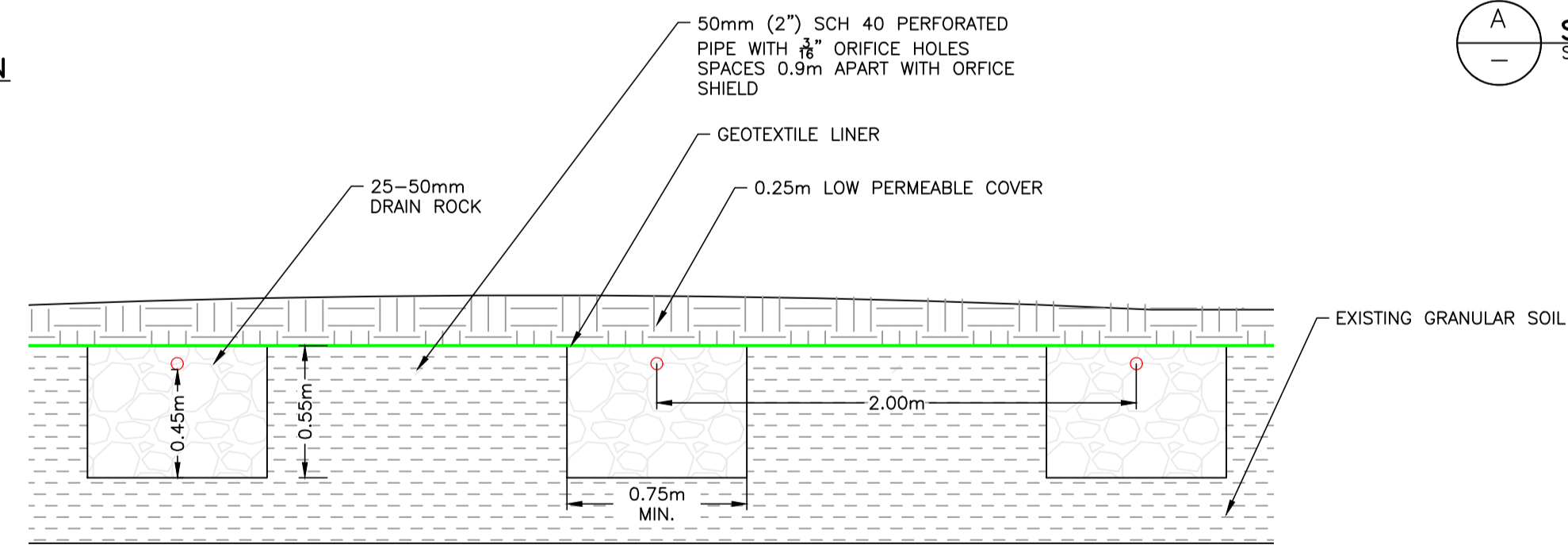
LOADING RATE INFORMATION:
DESIGN DAILY FLOW = 3,000 LPD
PERCOLATION RATE = 1.25 min/in
AREA OF INFILTRATIVE SURFACE = 67m²
LINEAR LOADING RATE = 140L/d/m
VERTICAL SEPARATION REQUIREMENT = N/A

GENERAL MINIMUM FIELD SETBACK REQUIREMENTS (TYPE 1)

	FIELD	TANK
FROM PARCEL BOUNDARY, BUILDING, DOMESTIC WATERLINE, INTERCEPTOR DRAIN (UPSTREAM)	3m (10ft)	1m (3ft)
BREAK-OUT POINT - PERIMETER DRAIN MARINE WATER	15m (50ft)	10m (33ft)
FROM SOURCE OF DOMESTIC/FRESH WATER	30m (100ft)	15m (50ft)



OPTION A SEPTIC FIELD PROFILE
SCALE: 1:25



OPTION B SEPTIC FIELD PROFILE
SCALE: 1:25



ISSUED FOR TENDER
OCTOBER 2020



NO.	DATE	BY	REVISIONS	ENG
	2020.11.30	C.S.	CHANGED FITTINGS AND ADDED FLOAT TREE	M.S.
(1)	2020.12.01	C.S.	ADDED PIPE THICKNESSES	M.S.

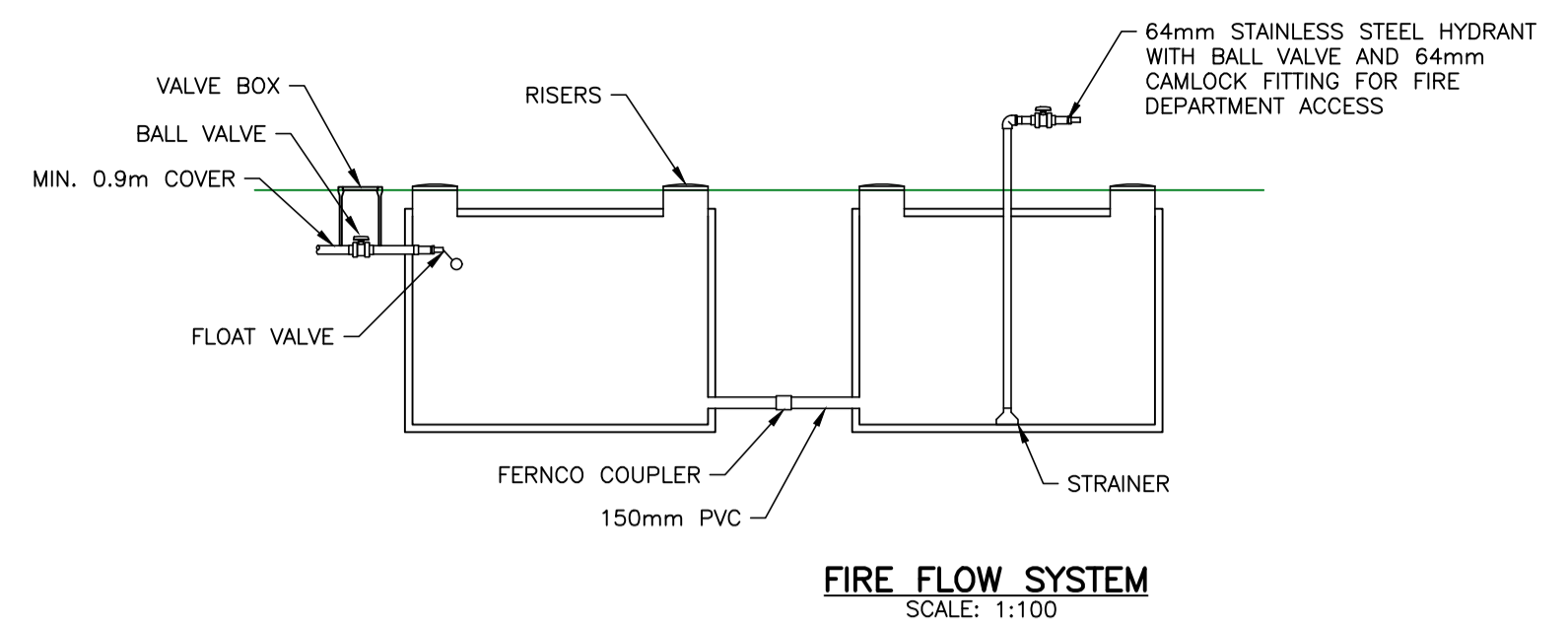
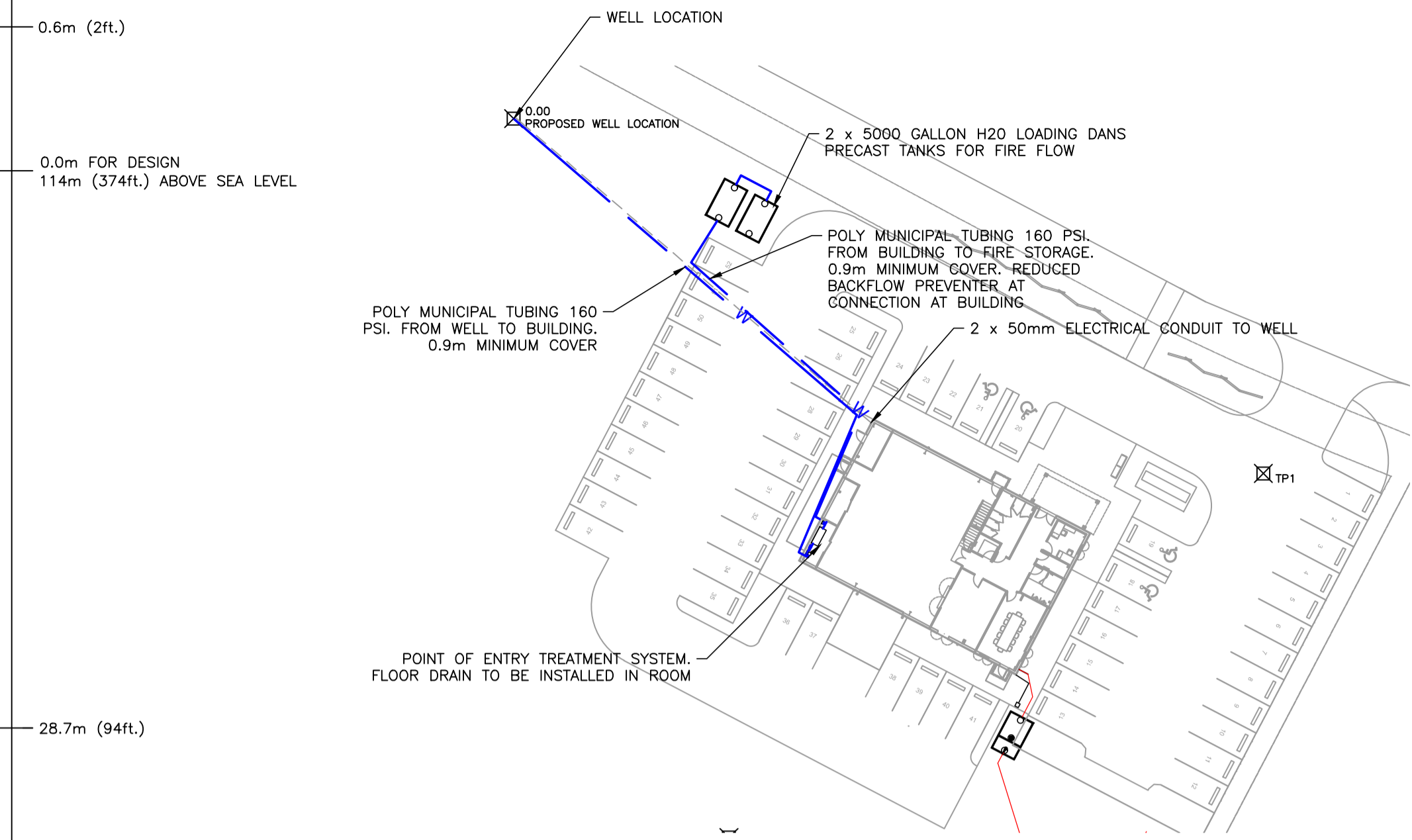
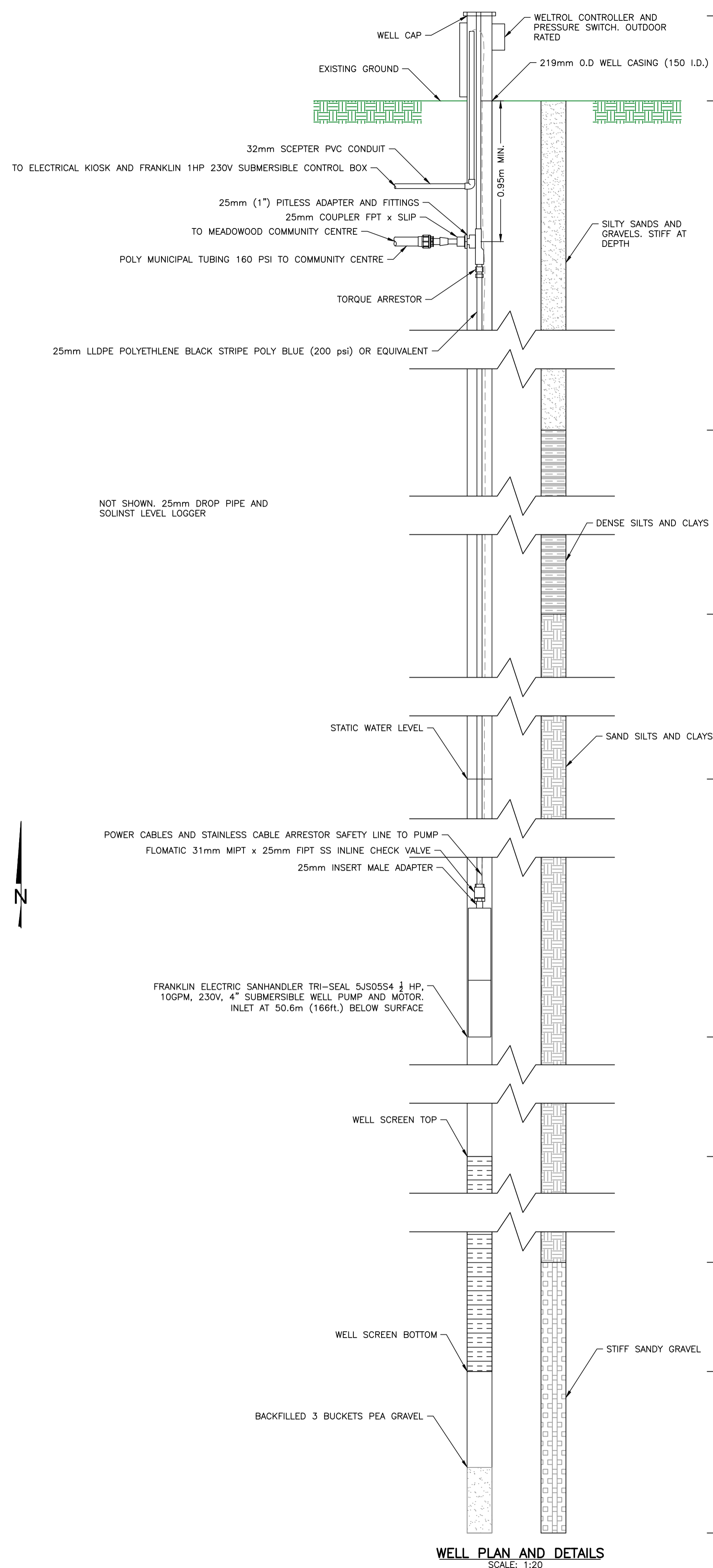
NO.	DATE	BY	REVISIONS	ENG
1.	2020.10.29	C.S.	ISSUED FOR TENDER	M.S.
			ISSUED	ENG

PROJECT: MEADOWOOD COMMUNITY CENTRE
DESCRIPTION: SITE PLAN AND DESIGN DRAWING

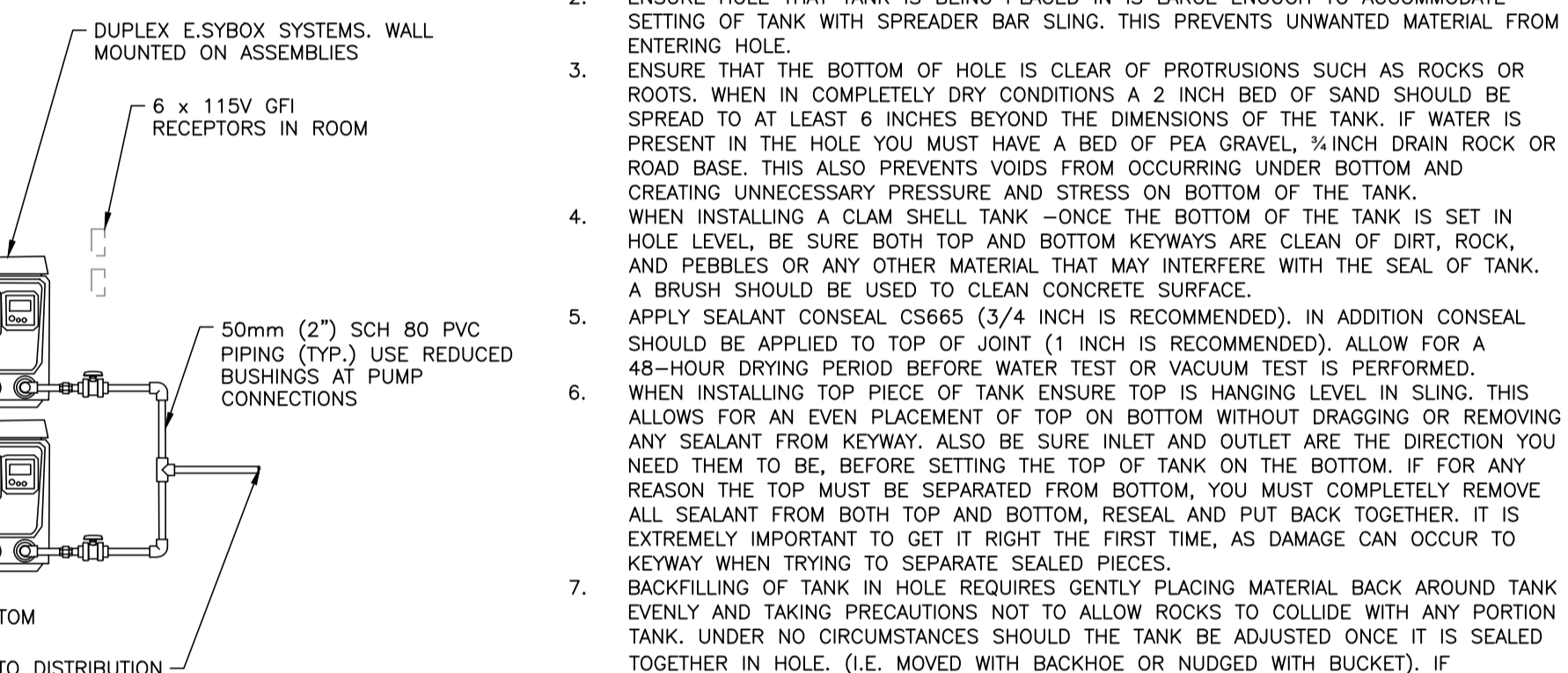
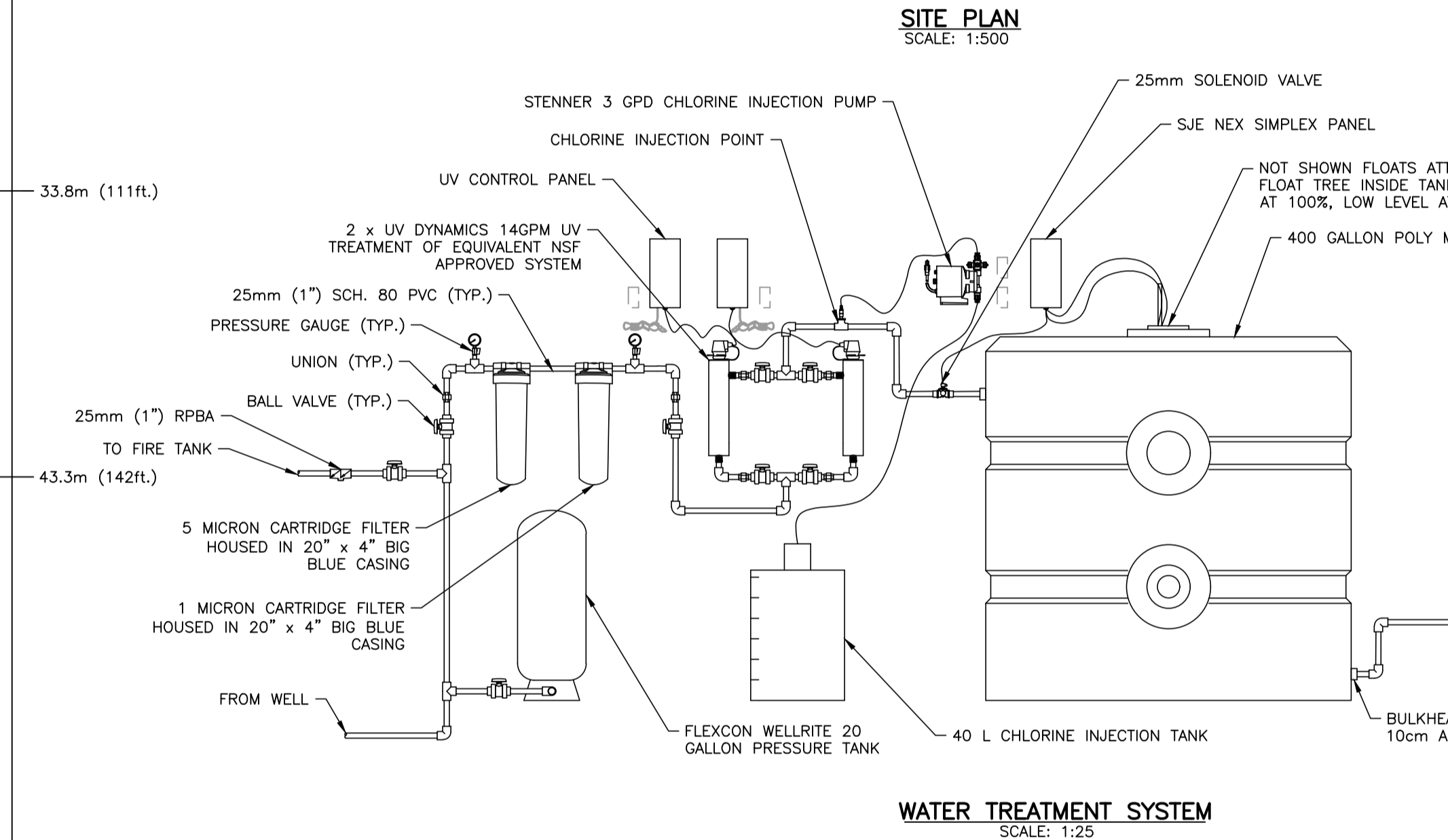
MSR SOLUTIONS INC.
INNOVATIVE ENGINEERING SERVICES
125 - 662 GOLDSTREAM AVENUE, VICTORIA B.C. V9B 0N8
OFFICE: (250) 479 - 5164
FAX: 888.277.2816
info@msrsolutions.ca
www.msrsolutions.ca

DESIGN BY:	DATE:
C.S.	2020.10.26
DRAWN BY:	DATE:
C.S.	2020.10.27
CHECKED BY:	DATE:
M.S.	2020.10.29
APPROVED BY:	DATE:
M.S.	2020.10.29

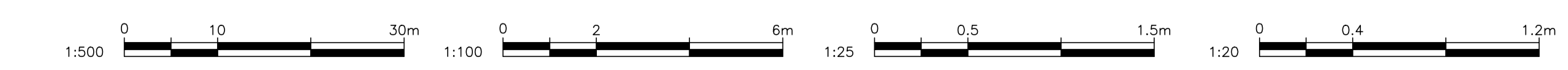
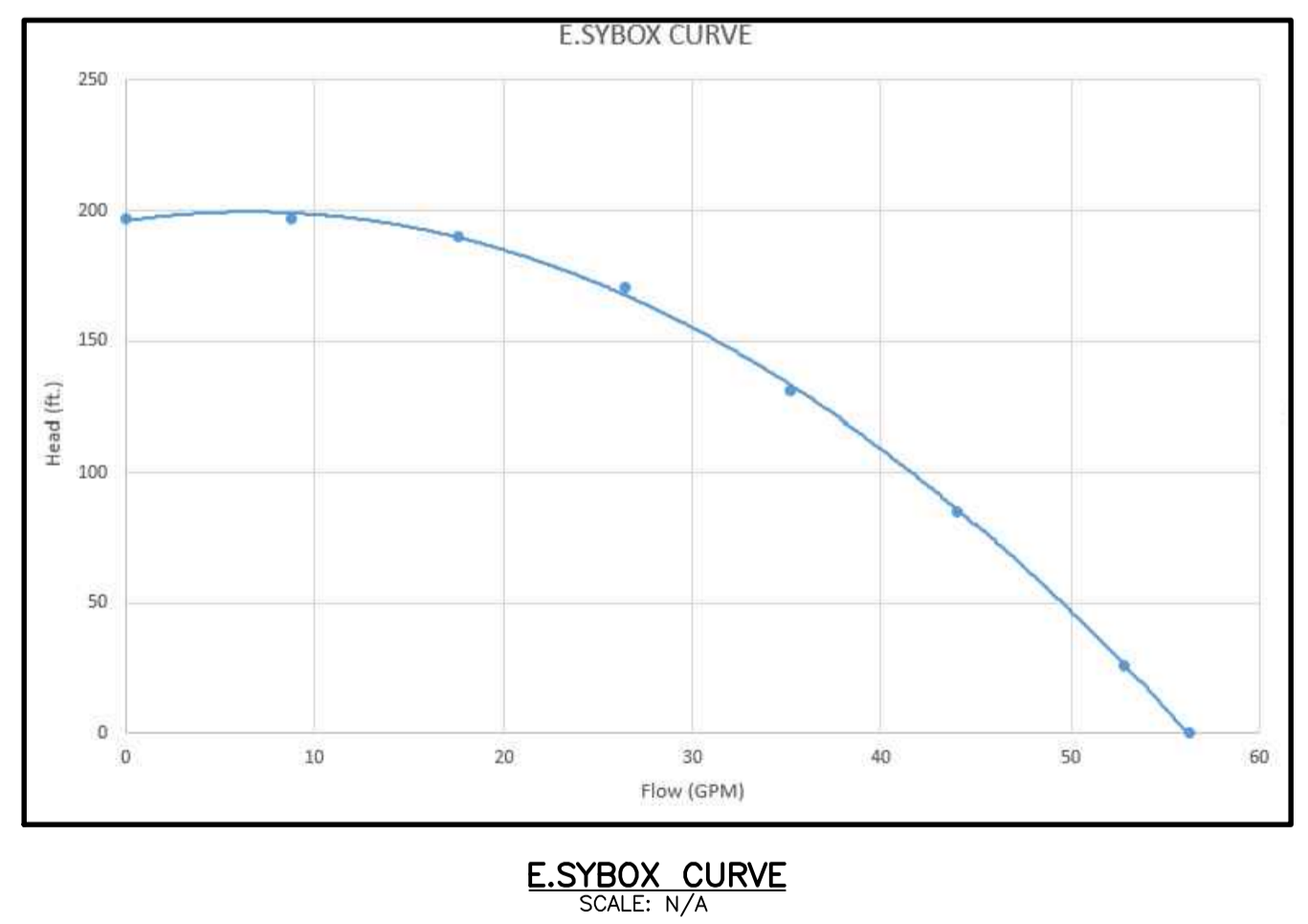
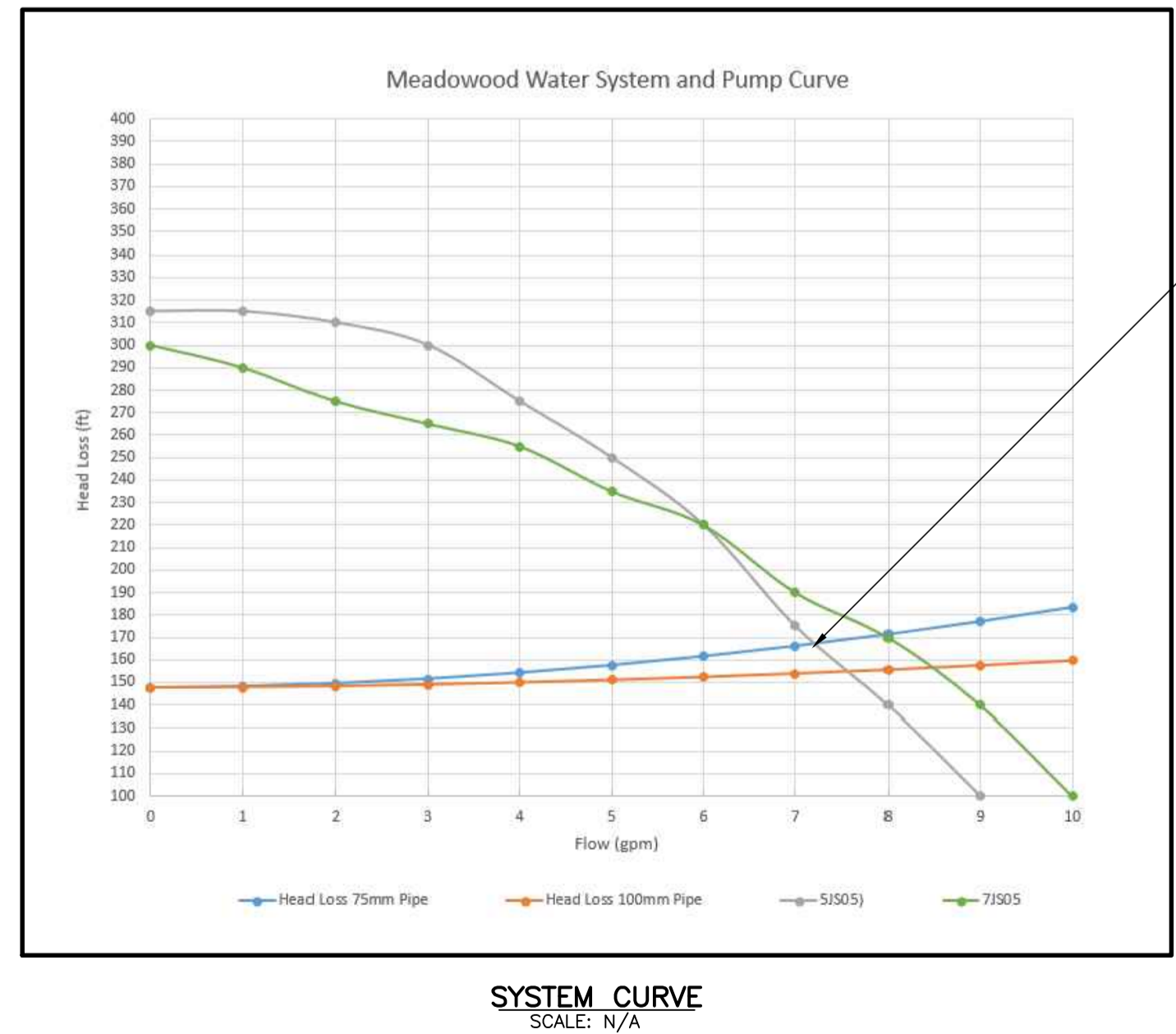
HORIZ. SCALE:	AS SHOWN	DRAWING NO.:	C01
VERT. SCALE:	AS SHOWN	PROJ. NO.:	20-539
SHEET 1 OF 1		VERSION NO.:	1



- NOTES:**
1. COMMERCIAL MANUFACTURED WELL CAP WITH SCREENED VENT AND GASKET TO PREVENT FOREIGN INTRUSIONS.
 2. SECURE DIP TUBES AND CABLE TIES TO DROP PIPE AT 3M MINIMUM.
 3. PROTECT SUBMERSIBLE MOTOR CABLES USING TORQUE ARRESTOR OR CABLE GUARD, AS APPROVED BY ENGINEER.
 4. WELL PUMP SHALL BE INSTALLED BY A QUALIFIED PROFESSIONAL AS PER THE GROUNDWATER PROTECTION REGULATION (GPR) AND WELL SEAL REPAIRED UPON INSTALLATION OF PITLESS ADAPTOR AND PIPING.
 5. PUMP OPERATION WILL HAVE ALARM SET UP FOR LOW FLOW WHEN CALLED BY RESERVOIR FLOAT.
 6. INSTALLATION AS PER MANUFACTURERS GUIDELINES



- TANK INSTALLATION:**
1. WHEN INSTALLING SEPTIC TANKS, A SPREADER BAR SLING IS REQUIRED TO KEEP PRESSURE OFF SIDES OF TANK. CABLES SHOULD NEVER BE PULLED UP AND OVER SIDES OF TANK, WITH NO SPREADER BAR, DAMAGE MAY OCCUR TO THE TANK, KEYWAY OR BOTH.
 2. ENSURE HOLE THAT TANK IS BEING PLACED IN IS LARGE ENOUGH TO ACCOMMODATE SETTING OF TANK WITH SPREADER BAR SLING. THIS PREVENTS UNWANTED MATERIAL FROM ENTERING HOLE.
 3. ENSURE THAT THE BOTTOM OF HOLE IS CLEAR OF PROTRUSIONS SUCH AS ROCKS OR ROOTS. WHEN IN COMPLETELY DRY CONDITIONS A 2 INCH BED OF SAND SHOULD BE SPREAD TO AT LEAST 6 INCHES BEYOND THE DIMENSIONS OF THE TANK. IF WATER IS PRESENT IN THE HOLE YOU MUST HAVE A BED OF PEA GRAVEL, 1/4 INCH DRAIN ROCK OR ROAD BASE. THIS ALSO PREVENTS VOIDS FROM OCCURRING UNDER BOTTOM AND CREATING UNNECESSARY PRESSURE AND STRESS ON BOTTOM OF THE TANK.
 4. WHEN INSTALLING A CLAM SHELL TANK - ONCE THE BOTTOM OF THE TANK IS SET IN HOLE LEVEL, BE SURE BOTH TOP AND BOTTOM KEYWAYS ARE CLEAN OF DIRT, ROCK, AND PEBBLES OR ANY OTHER MATERIAL THAT MAY INTERFERE WITH THE SEAL OF TANK. A BRUSH SHOULD BE USED TO CLEAN CONCRETE SURFACE.
 5. APPLY SEALANT CONSEAL CS665 (3/4 INCH IS RECOMMENDED). IN ADDITION CONSEAL SHOULD BE APPLIED TO TOP OF JOINT (1 INCH IS RECOMMENDED). ALLOW FOR A 48-HOUR DRYING PERIOD BEFORE WATER TEST OR VACUUM TEST IS PERFORMED.
 6. WHEN INSTALLING TOP PIECE OF TANK ENSURE TOP IS HANGING LEVEL IN SLING. THIS ALLOWS FOR AN EVEN PLACEMENT OF TOP ON BOTTOM WITHOUT DRAGGING OR REMOVING ANY SEALANT FROM KEYWAY. ALSO BE SURE INLET AND OUTLET ARE THE DIRECTION YOU NEED THEM TO BE, BEFORE SETTING THE TOP OF TANK ON THE BOTTOM. IF FOR ANY REASON THE TOP MUST BE SEPARATED FROM BOTTOM, YOU MUST COMPLETELY REMOVE ALL SEALANT FROM BOTH TOP AND BOTTOM, RESEAL AND PUT BACK TOGETHER. IT IS EXTREMELY IMPORTANT TO GET IT RIGHT THE FIRST TIME, AS DAMAGE CAN OCCUR TO KEYWAY WHEN TRYING TO SEPARATE SEALED PIECES.
 7. BACKFILLING OF TANK IN HOLE REQUIRES GENTLY PLACING MATERIAL BACK AROUND TANK EVENLY AND TAKING PRECAUTIONS NOT TO ALLOW ROCKS TO COLLIDE WITH ANY PORTION TANK. UNDER NO CIRCUMSTANCES SHOULD THE TANK BE ADJUSTED ONCE IT IS SEALED TOGETHER IN HOLE. (I.E. MOVED WITH BACKHOE OR NUDGED WITH BUCKET). IF COMPACTION IS REQUIRED, PLEASE FILL TANK WITH WATER EVENLY AS BACKFILL STAGES ARE BEING PERFORMED TO EQUALIZE PRESSURE ON BOTH SIDES OF TANK WALLS.
 8. WHEN BACKFILLING MATERIAL BECOMES SATURATED WITH WATER BECAUSE OF WINTER CONDITIONS' RAIN OR SNOW IT'S IMPORTANT TO USE DRY GRANULAR MATERIAL I.E. PEA GRAVEL, 1/4 DRAIN ROCK OR ROAD BASE BE USED. NEVER USE DRY OR SATURATED CLAY MATERIAL. 1M MAXIMUM DEPTH OF BURIAL FOR DRY GRANULAR MATERIAL - NORMAL CONDITIONS
 9. ONCE, BACKFILLED, FILL TANKS TO TOPSIDE OF LID AND ALLOW TO SITE FOR 24 HOURS. THEN REFILL AND VERIFY NO LEAKAGE AFTER ADDITIONAL 24 HOURS.



ISSUED FOR TENDER
NOVEMBER 2020

CALL BEFORE YOU DIG
1-800-474-6886

NO.	DATE	BY	REVISIONS	ENG
1	2020.12.01	C.S.	POINT OF ENTRY SYSTEM AND FIRE RETURN	X.X.

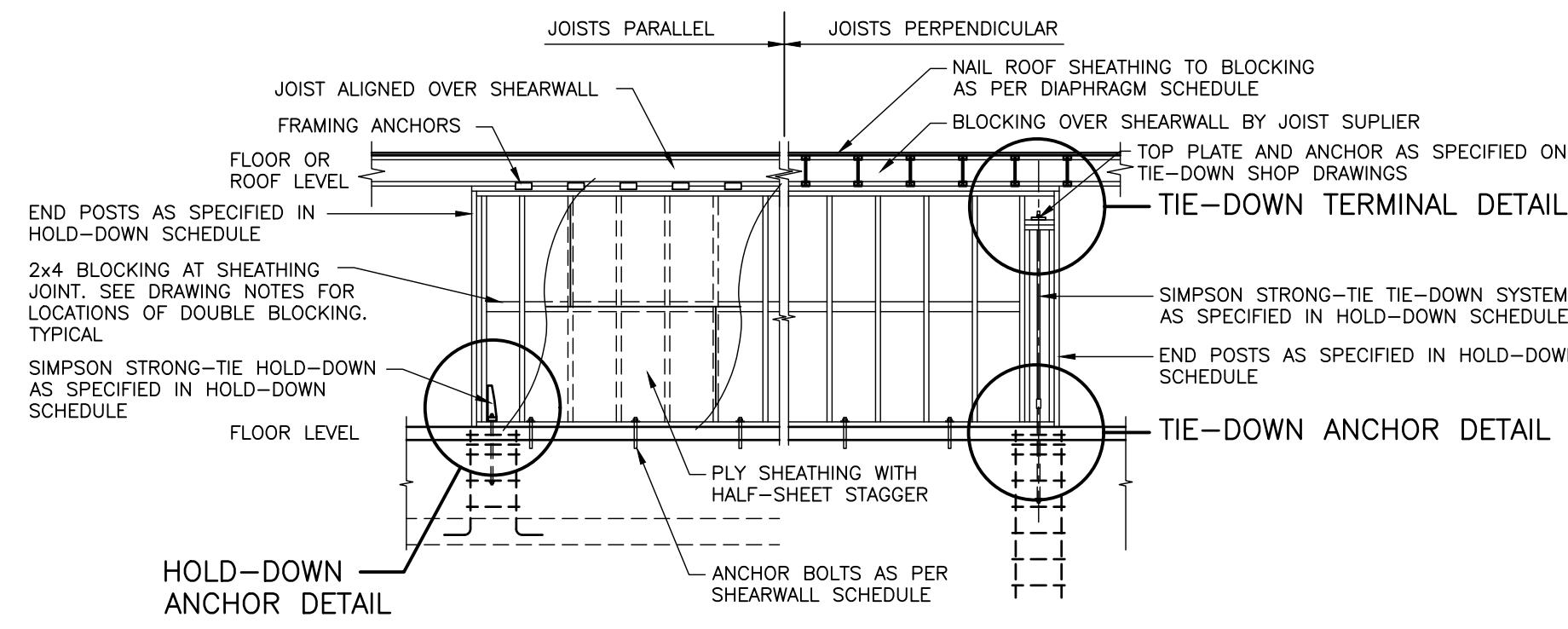
NO.	DATE	BY	REVISIONS	ENG
1	2020.11.23	C.S.	ISSUED	M.S.

PROJECT: MEADOWOOD COMMUNITY CENTRE
DESCRIPTION: WELL PLAN AND DETAILS

MSR SOLUTIONS INC.
INNOVATIVE ENGINEERING SERVICES
125 - 662 GOLDSTREAM AVENUE, VICTORIA B.C. V9B 0N8
OFFICE: (250) 479 - 5164
FAX: 888.277.2816
info@msrsolutions.ca
www.msrsolutions.ca

DESIGN BY:	DATE:
C.S.	2020.11.19
DRAWN BY:	DATE:
C.S.	2020.11.19
CHECKED BY:	DATE:
M.S.	2020.11.23
APPROVED BY:	DATE:
M.S.	2020.11.23

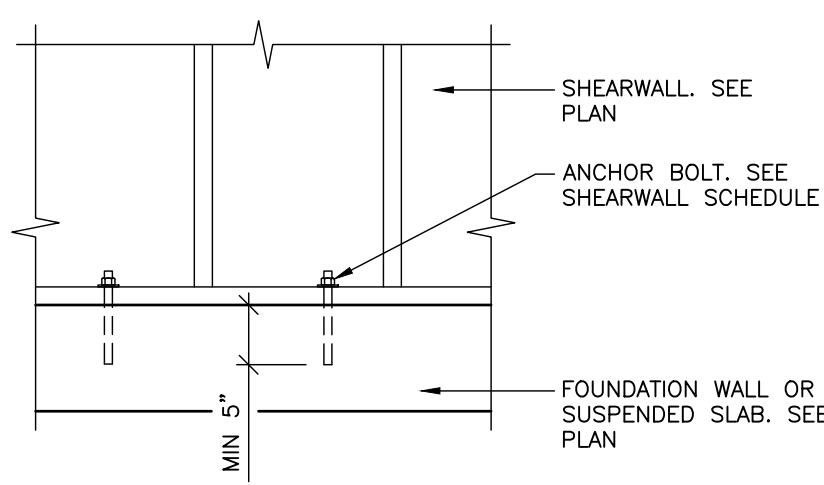
HORIZ. SCALE:	AS SHOWN	DRAWING NO.:	C02
SHEET 1 OF 1	VERSION	20-539	1



SHEARWALL KEY ELEVATION
NOT TO SCALE

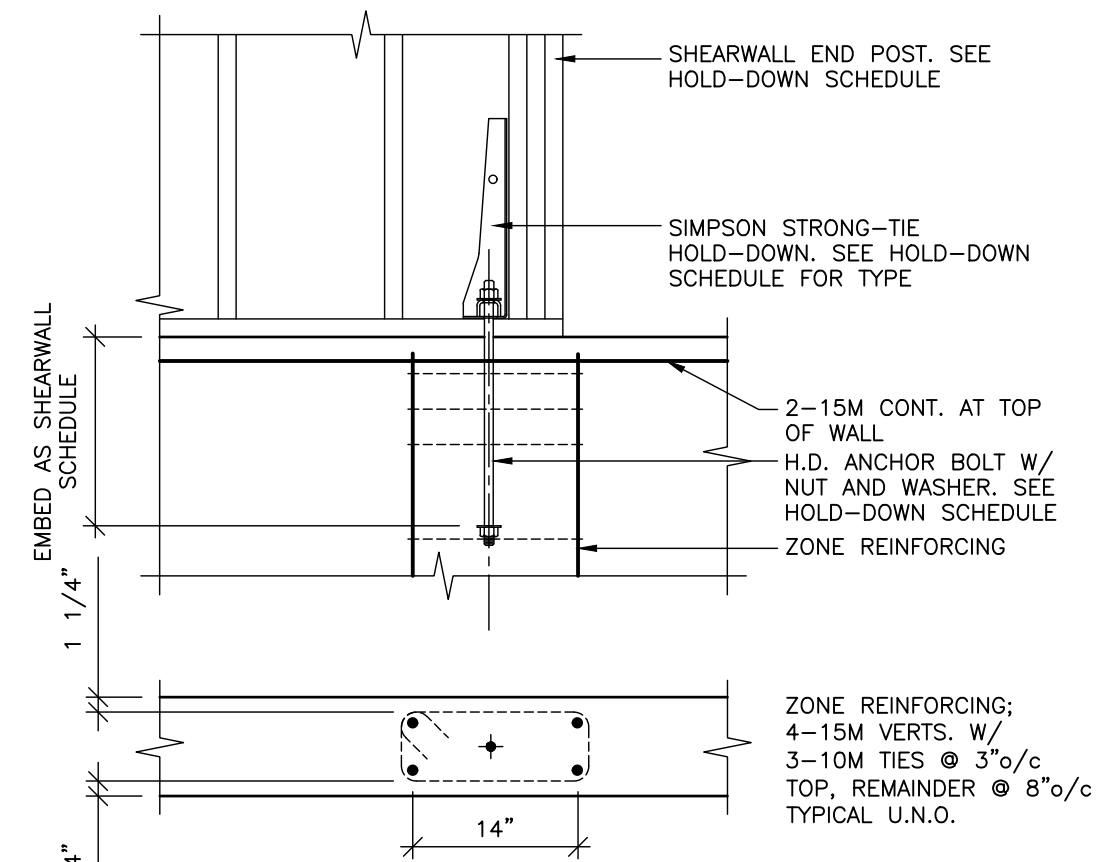
DRAWING NOTES

1. DETAILS ON THIS SHEET SHOW CRITICAL CONNECTIONS TO TRANSFER LOADS THROUGH THE BUILDING. ANY VARIATION FROM THESE DETAILS MUST RECEIVE APPROVAL FROM THE PROJECT ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DESIGN AND REMEDIATION IF FRAMING DOES NOT CONFORM TO THESE DETAILS.
2. SEE FRAMING PLANS FOR SHEAR WALL TYPES AND LOCATIONS.
3. PLACING PLYWOOD SHEETS VERTICALLY IS ACCEPTABLE.
4. NO PANEL JOINTS ARE TO OCCUR AT END POSTS.
5. SHEATHING TO BE D.FIR PLYWOOD OR OSB. SEE GENERAL NOTES FOR GRADE. OSB MAY ONLY BE USED ON INTERIOR SHEAR WALLS IN ACCORDANCE WITH THE GENERAL NOTES.
6. NAIL SPACING AT ALL PANEL EDGES IS TO BE AS PER THE SHEAR WALL SCHEDULE.
7. SHEAR WALL INTERMEDIATE SUPPORT NAILS TO BE THE SAME AS EDGE NAILS BUT @ 12" o/c.
8. FOR 2 1/2" NAILS @ 2" o/c, AND 3" NAILS AT ANY SPACING, PROVIDE DOUBLE BLOCKING @ PANEL EDGES, TYPICAL.
9. 2 1/2" NAILS TO BE 0.131" DIAMETER; 3" NAILS TO BE 0.148" DIAMETER.
10. PLACE PLYWOOD FOR SINGLE SIDED WALLS ON SAME SIDE AS SYMBOL ON PLAN.
11. SHEATHING AND BLOCKING FOR DOUBLE SIDED SHEAR WALLS ARE SHOWN WITH BROKEN LINES. NAILING AND FRAMING ANCHORS SPECIFIED APPLY TO BOTH SIDES OF THE WALL.

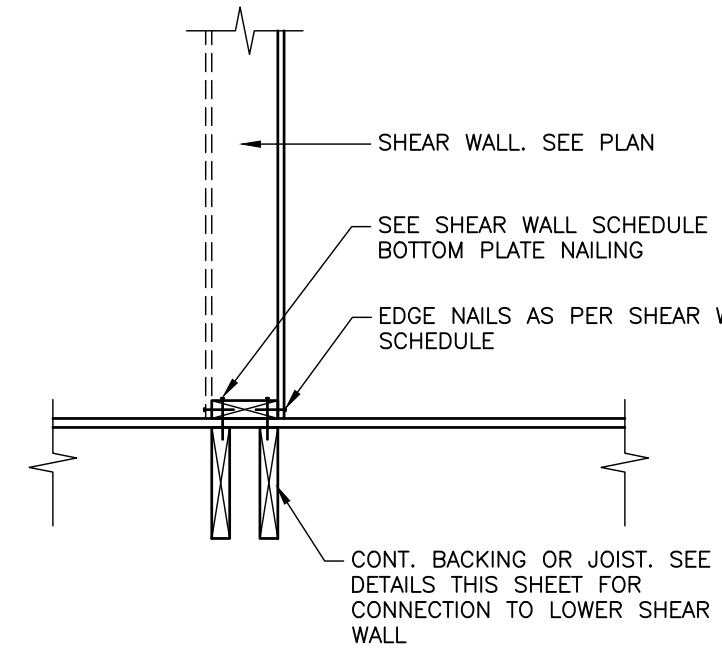


NOTE: ANCHOR BOLTS MAY BE CAST INTO THE CONCRETE OR DRILLED AND GROUTED LATER. IF DRILLED USE EPOXY ADHESIVE. MECHANICAL ANCHORS ARE NOT PERMITTED WITHOUT PRIOR WRITTEN PERMISSION FROM THE PROJECT ENGINEER. SEE GENERAL NOTES FOR ANCHOR AND ADHESIVE TYPE.

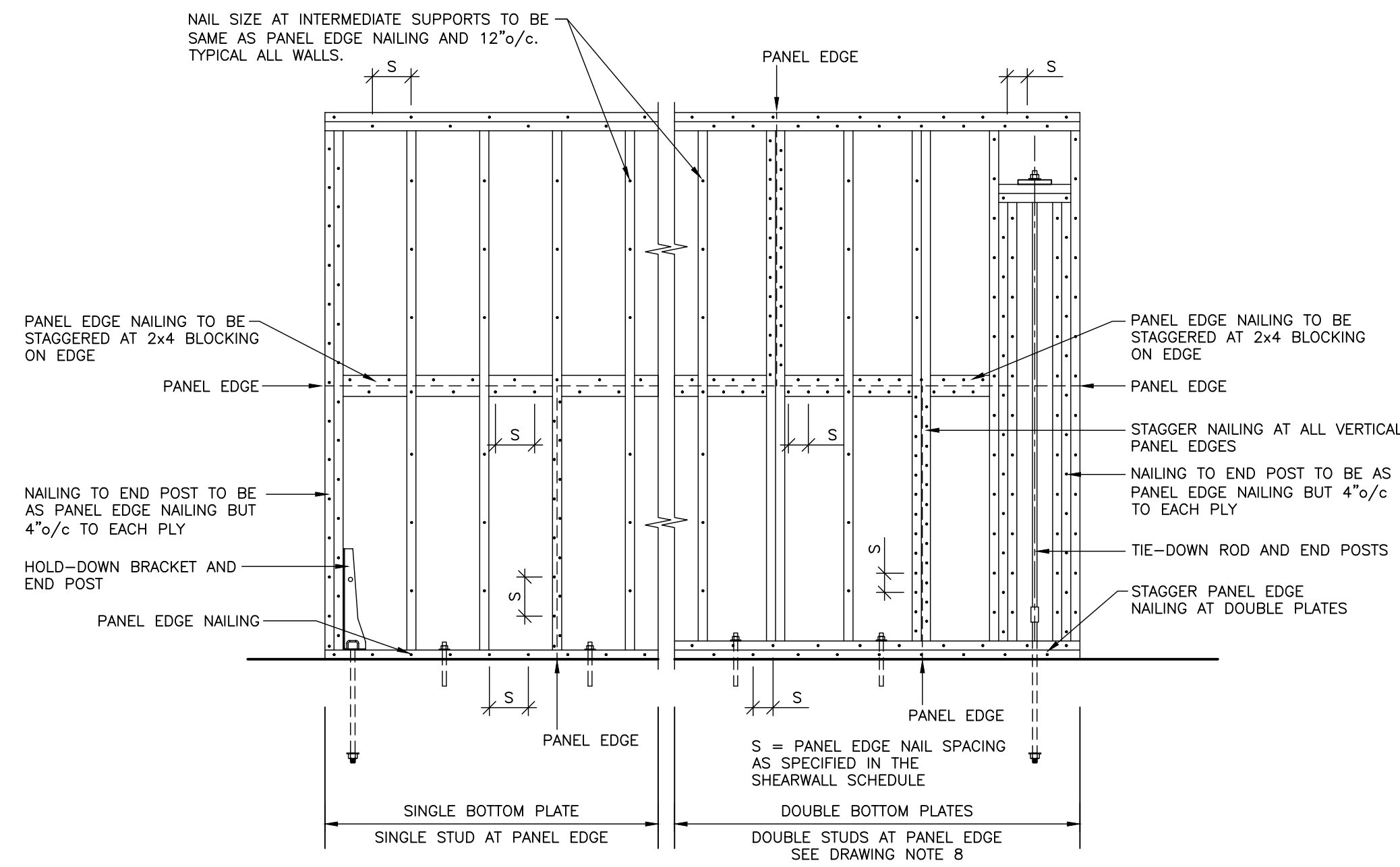
FOR SHEARWALLS WITH HOLD-DOWNS
TYPICAL ANCHOR BOLT
SCALE 3/4"=1'-0"



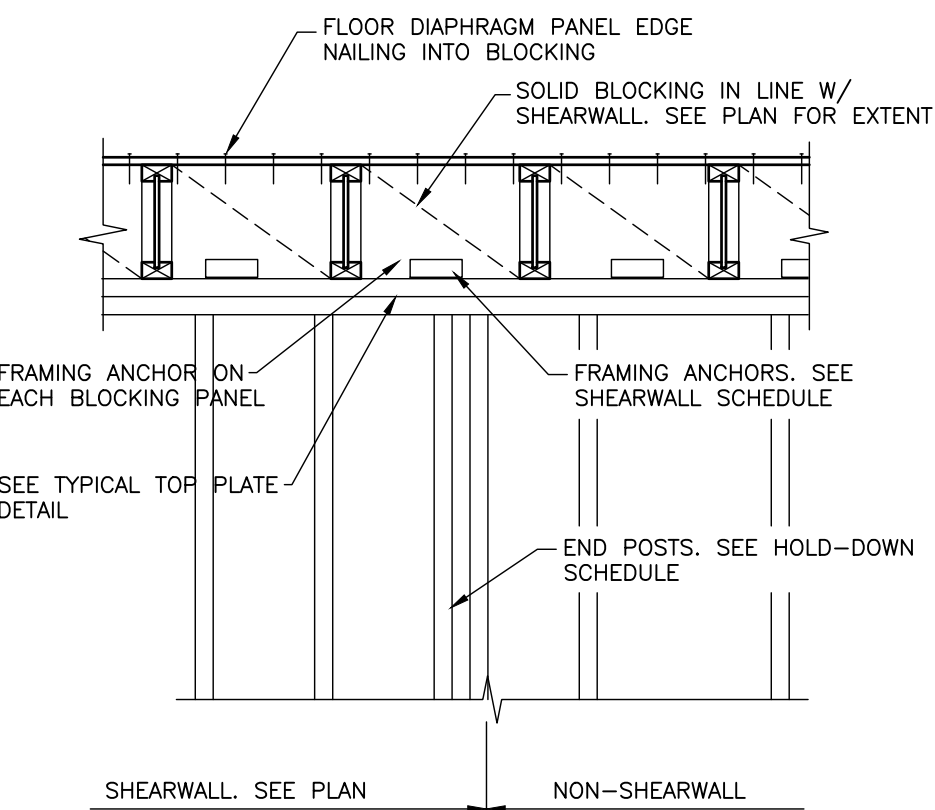
HOLD-DOWN ANCHOR DETAIL
SCALE 3/4"=1'-0"



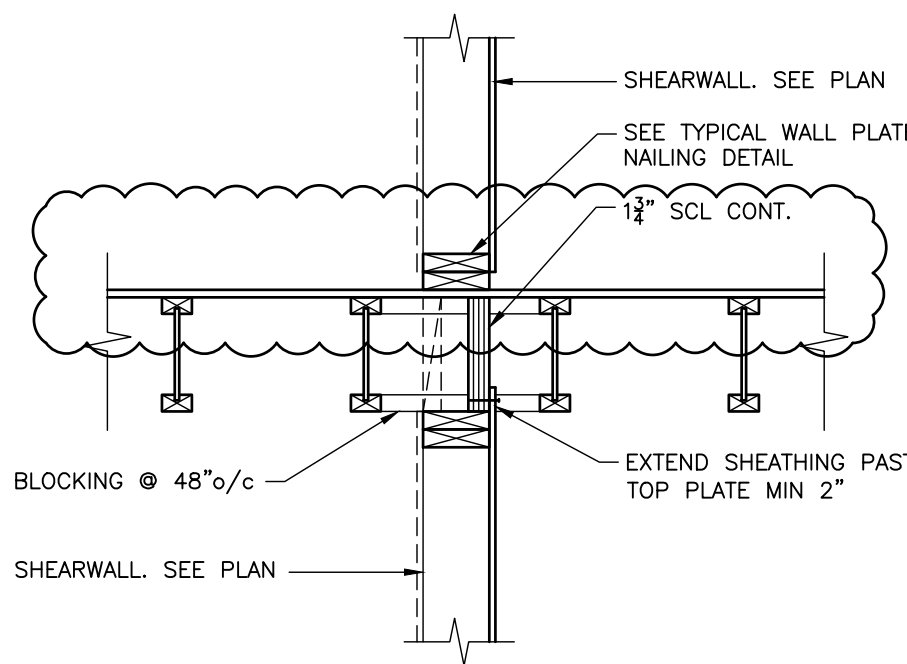
SHEAR WALLS TO FLOORS WITHOUT CONCRETE TOPPING
TYPICAL WALL PLATE NAILING
SCALE 3/4"=1'-0"



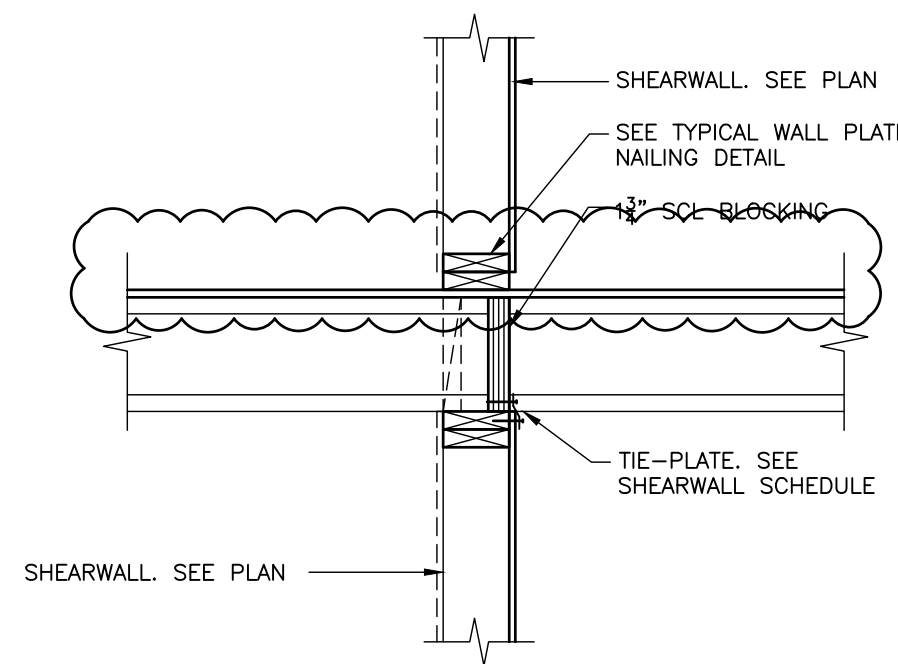
FOR SHEARWALL SHEATHING
SHEARWALL NAILING PATTERNS
NOT TO SCALE



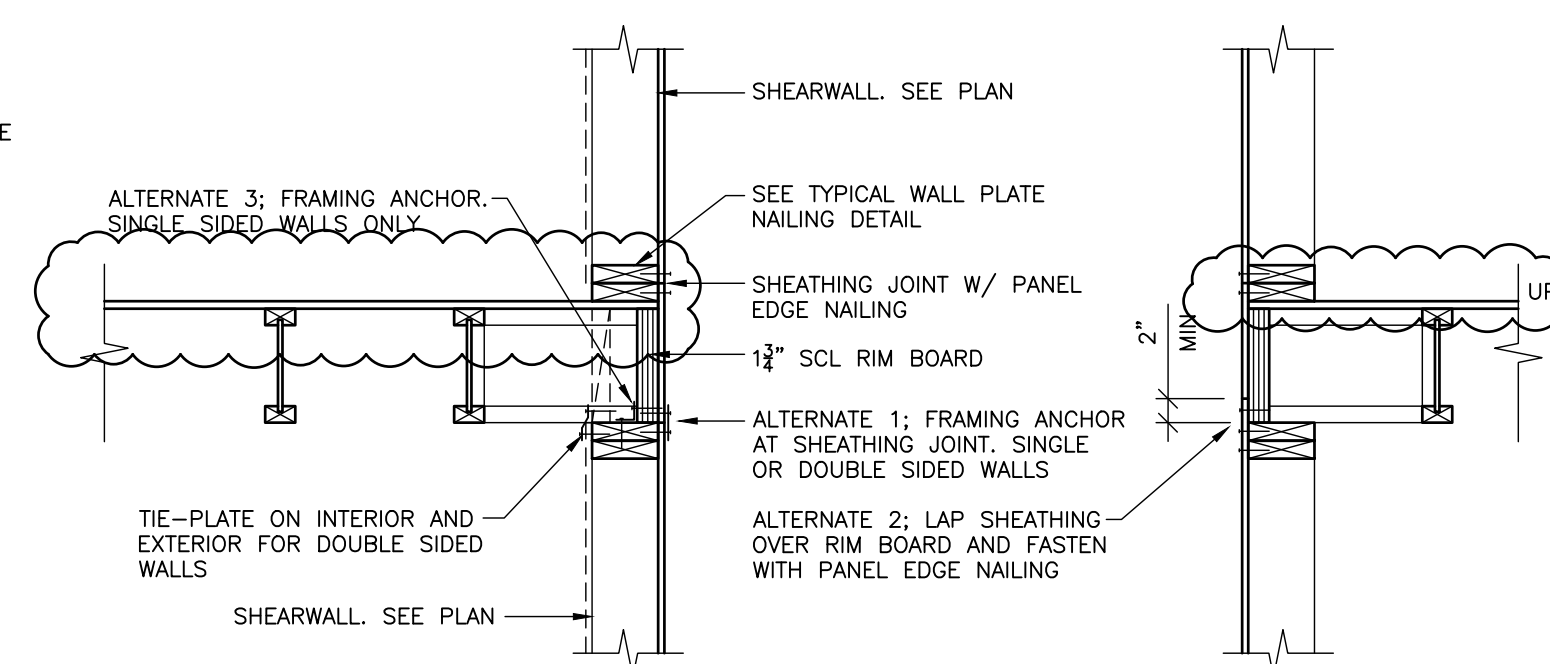
SHEARWALL DRAG STRUT DETAIL
SCALE 3/4"=1'-0"



JOISTS PARALLEL
INTERIOR SHEARWALL
SCALE 3/4"=1'-0"

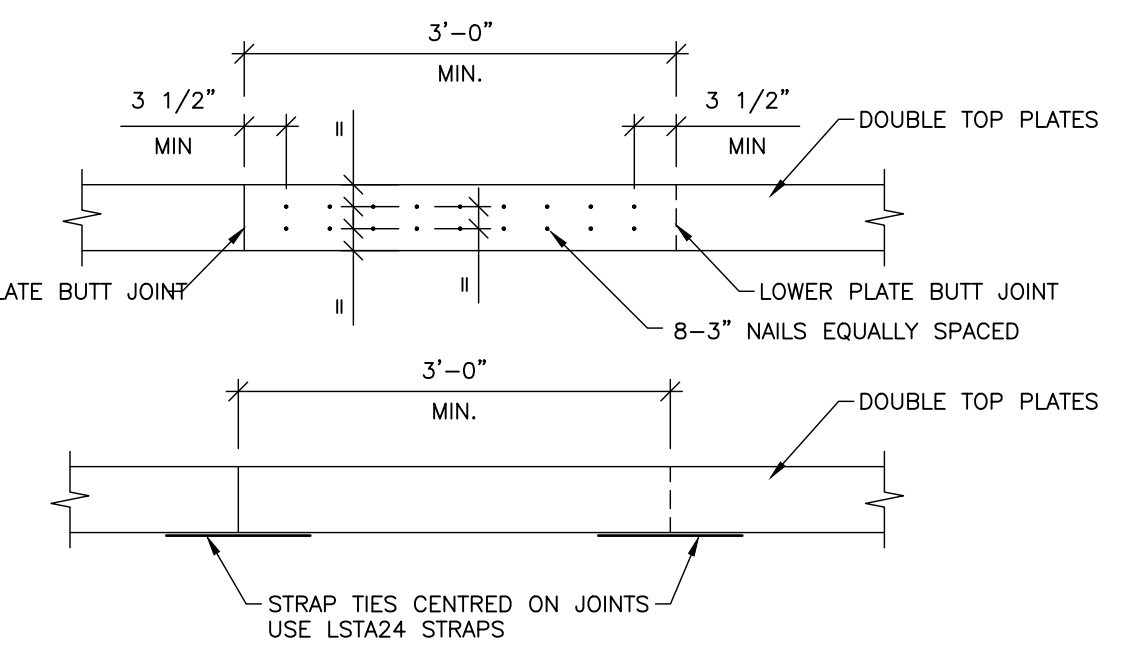


JOISTS PERPENDICULAR
INTERIOR SHEARWALL
SCALE 3/4"=1'-0"

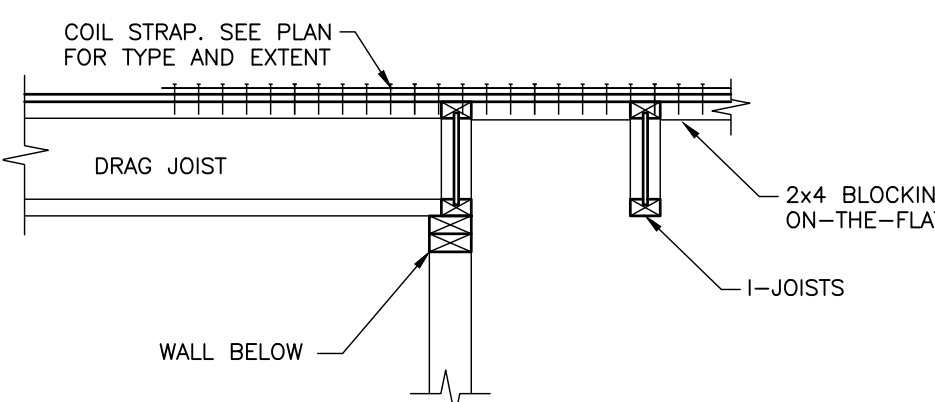


SHEARWALL TO FLOOR OR ROOF
ALTERNATE CONNECTIONS
SCALE 3/4"=1'-0"

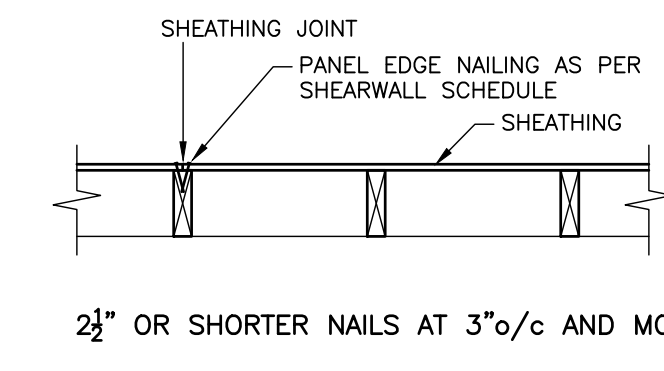
NOTE: THESE ALTERNATES CAN BE APPLIED TO ANY DETAIL SHOWING FLOOR OR ROOF CONNECTIONS TO A SHEARWALL.



TOP PLATE SPLICE DETAIL
NOT TO SCALE



TYPICAL COIL STRAP DETAIL
NTS



FOR SHEARWALLS
PANEL JOINTS IN SINGLE SIDED WALL
SCALE 3/4"= 1'-0"

ISSUES		
No.	DATE	ISSUED FOR
01	2020.10.29	TENDER
02	2020.12.01	STRUCTURAL ADDENDUM 01

ISSUED FOR TENDER

NOT FOR CONSTRUCTION

MEADOWOOD COMMUNITY CENTRE

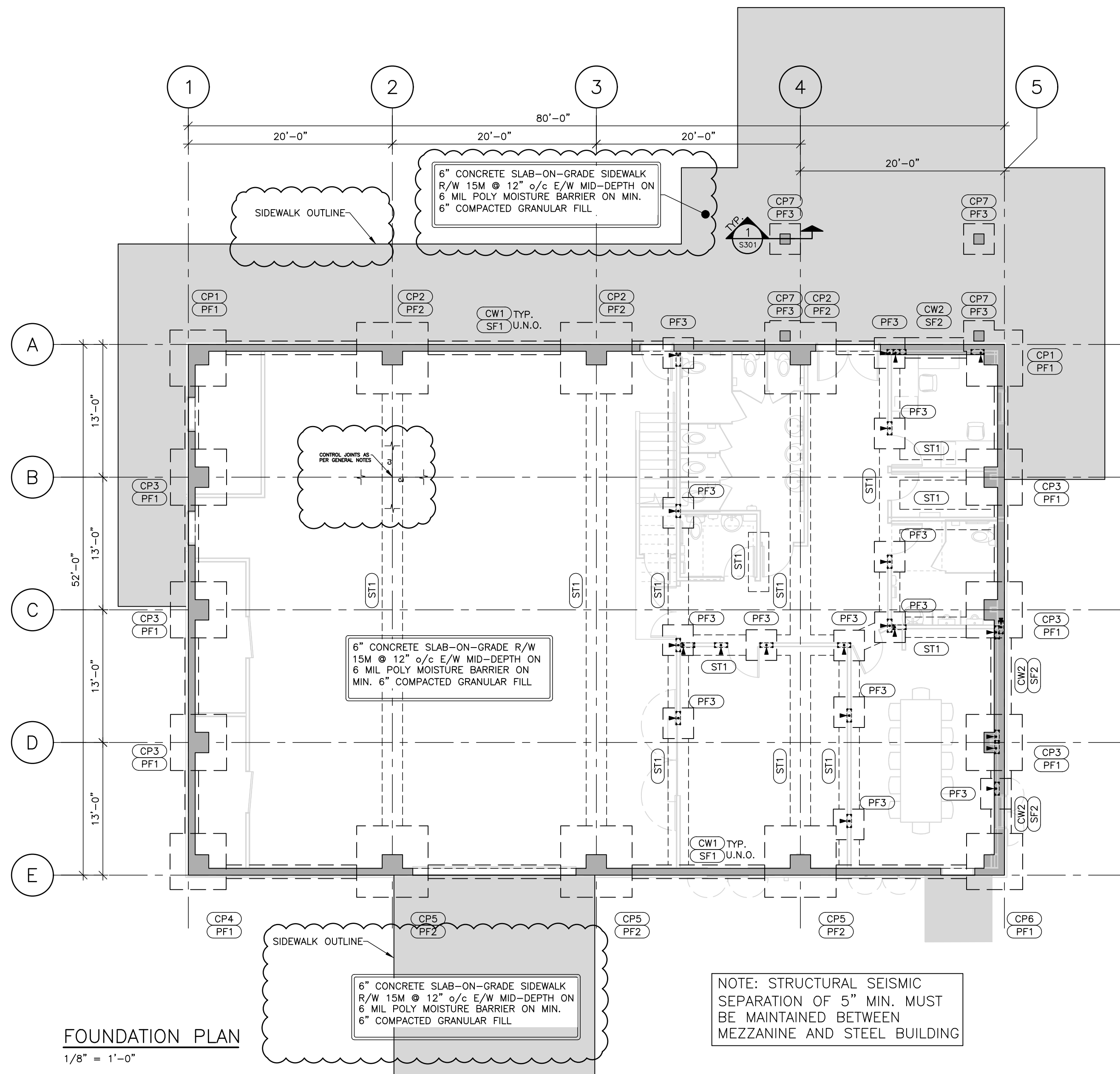
1830 GALVIN PLACE, QUALICUM BEACH, BC

HEROLD ENGINEERING

3701 Shenton Rd, Nanaimo, BC V9T 2H1
Tel: 250-751-8558 Fax: 250-751-8559
Email: mail@heroldengineering.com

DESIGNED: JV
DESIGN REVIEW:
DRAFTED: NW
DRAFTING REVIEW:

PROJECT No. 0837-052	CLIENT DRAWING No. n/a
SCALE AS SHOWN	PERMIT No. n/a
HEL DRAWING No. S103	REVISION 02



NOTE:
THESE PLANS HAVE BEEN PREPARED FROM ARCHITECTURAL BASE PLANS AND PRE-ENGINEERED STEEL BUILDING DRAWINGS. ALL DIMENSIONS ARE TO BE CONFIRMED WITH ARCHITECTURAL AND PRE-ENGINEERED STEEL BUILDING DRAWINGS MARKED 'ISSUED FOR CONSTRUCTION'. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION FOR EVALUATION.

CONCRETE WALL SCHEDULE

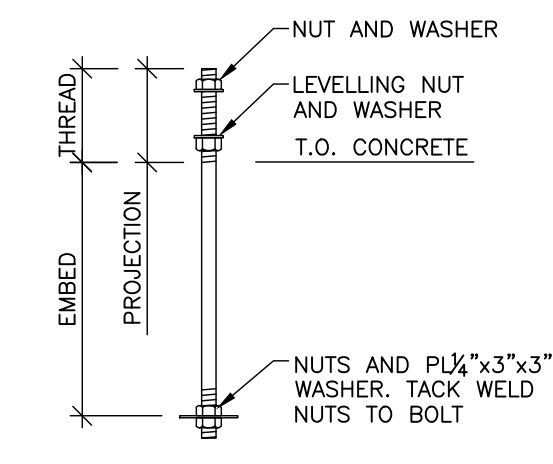
MARK	WIDTH	REINFORCING	LOCATION
CW1	8"	15M @ 16" o/c E/W	CENTRED
CW2	12"	15M @ 16" o/c E/W	BOTH FACES

NOTES: ALL UNLABELLED CONCRETE WALLS ARE CW1.

FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT	MIN. FTG DEPTH
PF1	5'-6"x5'-6"x1'-0"	6-20M E/W T&B	4'-0"
PF2	7'-0"x7'-0"x1'-2"	7-20M E/W T&B	4'-0"
PF3	3'-0"x3'-0"x1'-0"	3-15M E/W T&B	2'-0"
SF1	1'-4"x8" DP	2-15M E/W BOT.	2'-0"
SF2	2'-0"x1'-0" DP	3-15M E/W BOT.	2'-0"
ST1	2'-0"x1'-0" DP	2-20M CONT. LAP BARS 45°	-

1. MINIMUM FOOTING DEPTHS ARE MEASURED TO BOTTOM OF FOOTING FROM FINISHED GRADE FOR EXTERIOR FOOTINGS AND FROM TOP OF SLAB ON GRADE FOR INTERIOR FOOTINGS. WHERE GRADE IS HIGHER THAN THE SLAB, MEASURE FROM THE TOP OF THE SLAB TO THE BOTTOM OF THE EXTERIOR FOOTING.
2. ANCHOR BOLTS AND EMBEDDED ITEMS ARE NOT TO EXTEND INTO FOOTINGS UNLESS DETAILED OTHERWISE. LOWER FOOTINGS IF REQUIRED TO HAVE THESE ITEMS COMPLETELY WITHIN PIERS OR FOUNDATION WALLS.
3. ALL UNLABELLED STRIP FOOTINGS ARE SF1.



ANCHOR BOLT SCHEDULE

DIAMETER	MINIMUM EMBED	PROJECTION
1/2"	AS PER DRAWING	4"
3/4"	16"	4"
1 1/4"	24"	4"
2"	44"	4"

NOTES: ALL BOLTS TO HAVE NUT AND WASHER TACK WELDED TO BOTTOM END

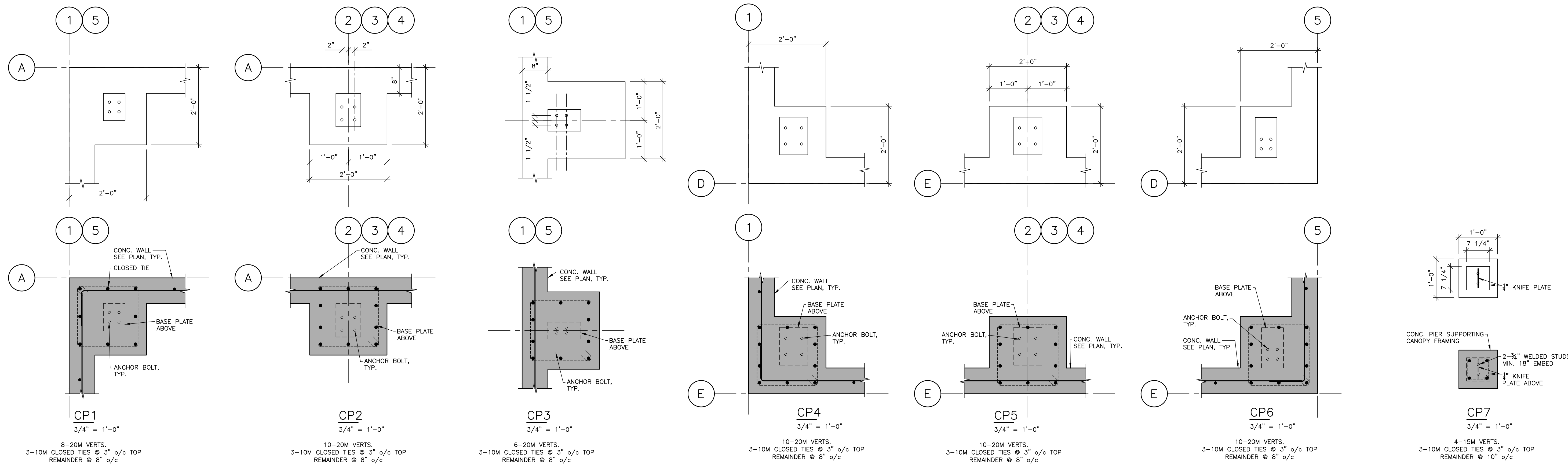
ISSUES

No.	DATE	ISSUED FOR
01	2020.10.29	TENDER
02	2020.12.01	STRUCTURAL ADDENDUM 01

SUB CONSULTANT

ISSUED FOR TENDER

NOT FOR CONSTRUCTION



MEADOWOOD COMMUNITY CENTRE

1830 GALVIN PLACE, QUALICUM BEACH, BC

HEROLD ENGINEERING
3701 Shenton Rd, Nanaimo, BC V9T 2H1
Tel: 250-751-8558 Fax: 250-751-8559
Email: mail@heroldengineering.com

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FOUNDATION PLAN

DESIGNED	JV	ENGINEER'S SEAL
DESIGN REVIEW		
DRAFTED	NW	
DRAFTING REVIEW		
PROJECT No.	0837-052	CLIENT DRAWING No.
SCALE	AS SHOWN	PERMIT No.
HEL DRAWING No.	S201	REVISION
		02

MECHANICAL ADDENDUM

Project Name:	Meadowood Community Hall	Date:	December 1, 2020
Client:	Regional District of Nanaimo	Project #:	20437-N
Issued By:	Todd Backus	No:	ADD-03

This Addendum consists of 1 page, with 2 sheets attached.

Confirmation of consideration of this addendum with respect to final bid price must be indicated in submitted bid documents.

Refer to MECHANICAL DRAWINGS (2 Sheets Attached)

Refer to DRAWING M-1 (see attached)

- | | | |
|---------|----|---|
| REVISE: | 1. | Revise the location of rainwater leaders and associated storm piping. |
| | 2. | Moved drawing note to coordinate with architectural plans for location and size of RWL. |
| ADD: | 1. | Add sanitary piping from Bev. Sink to kitchen sanitary main. |
| | 2. | Add piping from mezzanine mechanical floor drain from level above to sanitary main. |

Refer to DRAWING M-2 (see attached)

- | | | |
|---------|----|---|
| REVISE: | 1. | Revise sanitary piping from floor drain in mezzanine mechanical area. |
|---------|----|---|

END OF MECHANICAL ADDENDUM No. 03

PLUMBING SYMBOL SCHEDULE	
	GATE VALVE
	PRESSURE REDUCING VALVE
	GLOBE VALVE
	VALVE CHECK
	BALANCING VALVE
	PIPE ELBOW DOWN
	PIPE ELBOW TEE UP
	PIPE TEE DOWN
	PIPE CAP
	PIPE BREAK
	PIPE UNION
	PIPE FLOW DIRECTION ARROW
	PIPE TRAP
	PIPE CLEANOUT TO GRADE
	HOSE BIB
	FLOOR DRAIN
	PLUMBING VENT

HVAC SYMBOL SCHEDULE	
	SUPPLY DUCT
	RETURN DUCT
	EXHAUST DUCT
	MITERED DUCT ELBOW W/ VANES
	ANGLED DUCT ELBOW W/ VANES
	DUCT ELBOW 1R
	DUCT ELBOW 1.5R
	DUCT WITH EXTERNAL INSULATION
	DUCT TRANSITION
	DUCT TAKEOFF
	RETURN GRILLE
	EXHAUST GRILLE
	SUPPLY AIR DIFFUSER SQUARE
	CIRCULAR DUCT BREAK
	RECTANGULAR DUCT BREAK
	FLOW DIRECTION ARROW
	BALANCE DAMPER
	DOOR UNDERCUT

FIXTURES CONNECTION SCHEDULE											
TAG	FIXTURE	TYPE	DOMESTIC COLD WATER		DOMESTIC HOT WATER		COMBINED	SANITARY		SANITARY VENT	
			FU	SIZE	FU	SIZE		FU	SIZE	FU	SIZE
DW-1	DISHWASHER - DOMESTIC	PUBLIC	-	-	1.40	1/2"	1.40	-	1-1/2"	-	-
FD-1	FLOOR DRAIN	-	-	-	-	-	-	3"	-	-	-
HB-1	HOSE BIBB	PUBLIC	2.50	1/2"	-	-	2.50	-	-	-	-
HD-1	HUB DRAIN	PUBLIC	-	-	-	-	-	1-1/2"	-	-	-
JS-1	SINK - SERVICE	PUBLIC	2.25	1/2"	2.25	1/2"	3.00	3.00	1-1/2"	3.00	1-1/2"
LAV-1	LAVATORY - 8.3LPM OR LESS	PUBLIC	1.50	1/2"	1.50	1/2"	2.00	1.50	1-1/2"	1.50	1-1/2"
SK-1	SINK - KITCHEN DOMESTIC, 8.3LPM	PUBLIC	1.00	1/2"	1.00	1/2"	1.40	1.50	1-1/2"	1.50	1-1/2"
UR-1	URINAL - DIRECT FLUSH VALVE	PUBLIC	-	3/4"	-	-	-	4.00	2"	4.00	1-1/2"
WC-1	WATER CLOSET - FLUSH TANK	PUBLIC	2.20	1/2"	-	-	2.20	4.00	4"	4.00	-
WC-2	WATER CLOSET - FLUSH TANK	PUBLIC	2.20	1/2"	-	-	2.20	4.00	4"	4.00	-

DRAWING NOTE:
1. COORDINATE RWL LOCATION AND SIZE WITH ARCH PLANS

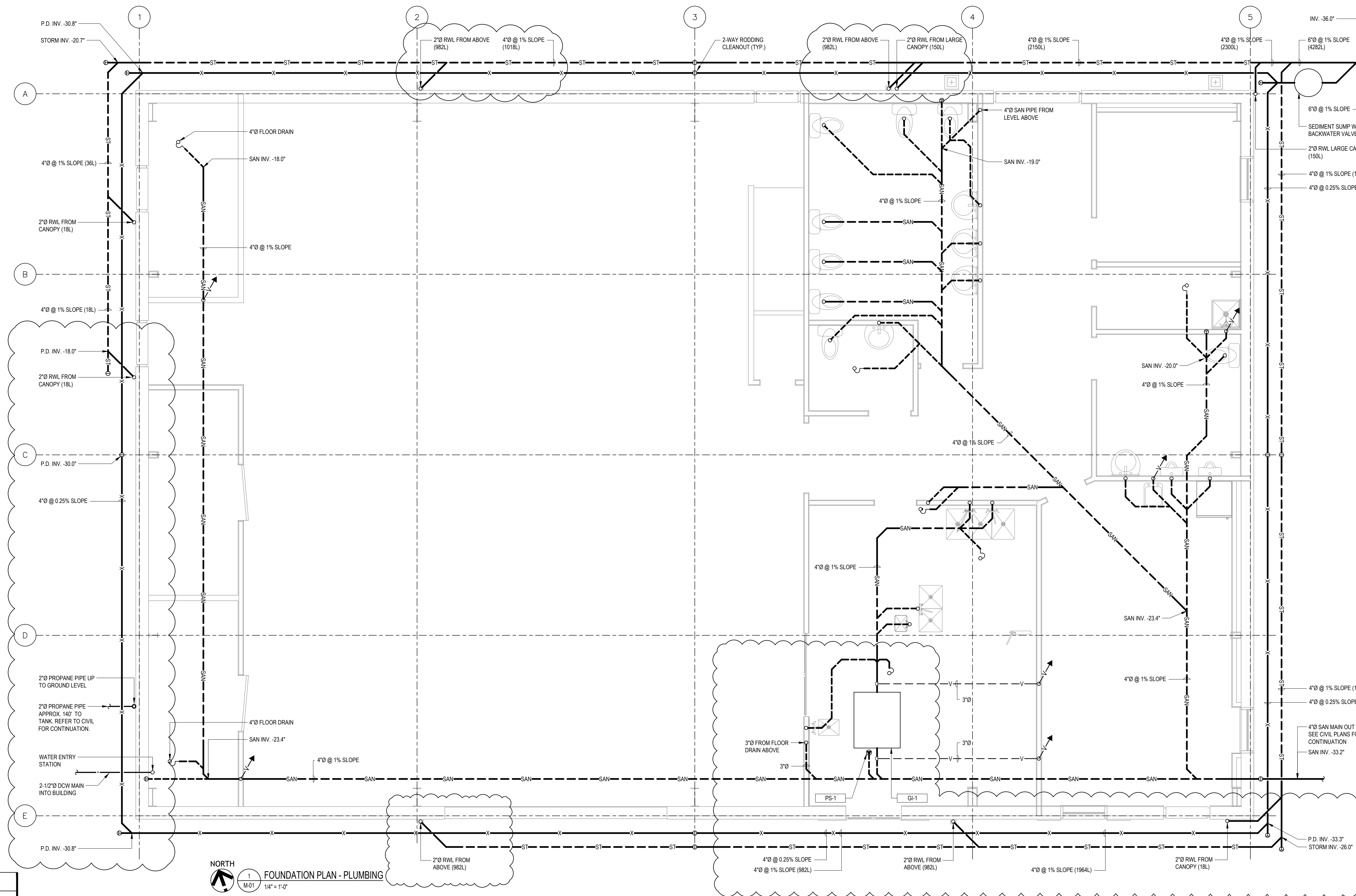
GRILLE & DIFFUSER SCHEDULE						
TAG	MANUFACTURER	MODEL	SERVICE	FINISH	MOUNTING	REMARKS
DG-1	EH PRICE	530	TRANSFER	B-12	DOOR	-
E-1	EH PRICE	500	EXHAUST	B-12	SURFACE	-
L-1	AIRLITE	K6744	OUTDOOR	B-12	SURFACE	-
R-1	EH PRICE	530	RETURN	B-12	SURFACE	-
S-1	EH PRICE	500	SUPPLY	B-12	SURFACE	-
S-2	EH PRICE	RCD	SUPPLY	B-12	DUCT	-
T-1	EH PRICE	530	TRANSFER	B-12	SURFACE	-

STORM LOAD SUMMARY - BASED ON 10MM/15 MIN RAIN FALL		
DESCRIPTION	AREA: m² (#F)	LITERS
MAIN ROOF	395 (4230)	3,926
LARGE CANOPY	30 (320)	300
N.W. SMALL CANOPY	2 (19)	18
W. SMALL CANOPY	2 (19)	18
S. SMALL CANOPY	2 (19)	18
TOTAL	430 (4610)	4,280 - 6" @ 1% SLOPE

BUILDING WATER SERVICE			
DESCRIPTION	SPACE TYPE	DOMESTIC LOAD	PIPE SIZE REQ.
TOTAL LOAD	COMMERCIAL	125 FU	2"

SANITARY LOAD SUMMARY			
DESCRIPTION	SPACE TYPE	SANITARY LOAD	PIPE SIZE REQ.
TOTAL LOAD	COMMERCIAL	75 FU	4"

PROPANE LOAD SUMMARY			
DESCRIPTION	SPACE TYPE	LOAD (BTUH)	PIPE SIZE REQ.
TOTAL LOAD	COMMERCIAL	1,191,000	2"



FOUNDATION PLAN - PLUMBING
1
M:01
1/4" = 1'-0"

DWG #	TITLE	SCALE
M-01	FOUNDATION PLAN - PLUMBING	1/4" = 1'-0"
M-02	MAIN FLOOR PLAN - SANITARY	1/4" = 1'-0"
M-03	MAIN FLOOR PLAN - DOMESTIC WATER	1/4" = 1'-0"
M-04	MEZZANINE FLOOR PLAN - PLUMBING	1/4" = 1'-0"
M-05	MAIN FLOOR PLAN - HVAC	1/4" = 1'-0"
M-06	MEZZANINE FLOOR PLAN - HVAC	1/4" = 1'-0"
M-07	ROOF PLAN - MECHANICAL	1/4" = 1'-0"
M-08	MECHANICAL SCHEDULES	N.T.S.
M-09	MECHANICAL DETAILS	N.T.S.
M-10	MECHANICAL SPECIFICATIONS	N.T.S.
M-11	MECHANICAL SPECIFICATIONS	N.T.S.

ROCKY POINT
ENGINEERING LTD.
Vancouver • Langley • Victoria • Nanaimo • Kelowna • Kamloops • Nelson
Mechanical Consulting Engineers www.rpeng.ca
NANAIMO OFFICE
102 - SENTON ROAD
NANAIMO, BC - V9T 2H1
ph. 250.585.0222

KEYPLAN:

No.	DATE	DESCRIPTION	BY
7	01 DEC 2020	ADDENDUM - 03	TB
6	27 NOV 2020	ADDENDUM - 02	TB
5	13 NOV 2020	ADDENDUM - 01	TB
4	04 NOV 2020	ISSUED FOR TENDER	TB
3	03 NOV 2020	TENDER REVISION	TB
2	29 OCT 2020	TENDER COORDINATION	TB
1	22 SEP 2020	COORDINATION	TB

NO. DATE DESCRIPTION BY
REVISIONS:
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SEAL:

CLIENT:



PROJECT:
MEADOWOOD COMMUNITY HALL

1830 GLAVIN PLACE
QUALICUM BEACH, BC

DRAWING NAME:
FOUNDATION PLAN - PLUMBING

PROJECT NUMBER:
20437-N

DRAWN BY: TB
DESIGNED BY: TB
APPROVED BY: AM
SCALE: REFER TO VIEWS

DRAWING:

M-01

SUB-CONSULTANT:

KEYPLAN:

7	01 DEC 2020	ADDENDUM - 03	TB
6	27 NOV 2020	ADDENDUM - 02	TB
5	13 NOV 2020	ADDENDUM - 01	TB
4	04 NOV 2020	ISSUED FOR TENDER	TB
3	03 NOV 2020	TENDER REVISION	TB
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1	22 SEP 2020	COORDINATION	TB

No.	DATE	DESCRIPTION	BY

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PROJECT:
MEADOWOOD COMMUNITY HALL

1830 GLAVIN PLACE
QUALICUM BEACH, BC

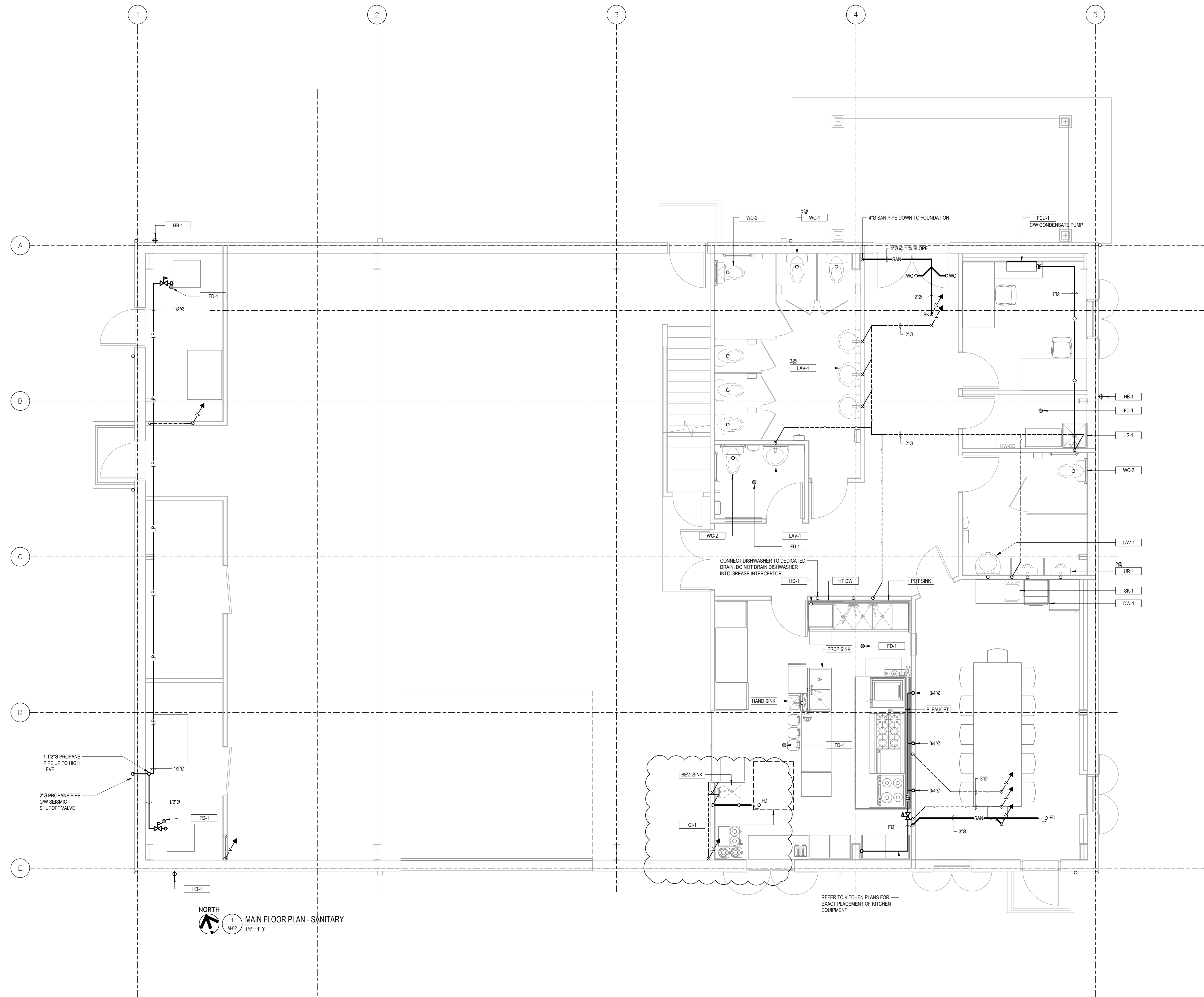
DRAWING NAME:
MAIN FLOOR PLAN - SANITARY

PROJECT NUMBER:
20437-N

DRAWN BY: TB
DESIGNED BY: TB
APPROVED BY: AM
SCALE: REFER TO VIEWS

DRAWING:

M-02



NORTH
1 MAIN FLOOR PLAN - SANITARY
M-02
1/4" = 1'-0"

1-1/2" PROPAANE
PIPE UP TO HIGH
LEVEL

2" PROPAANE PIPE
CW SEISMIC
SHUTOFF VALVE

CONNECT DISHWASHER TO DEDICATED
DRAIN. DO NOT DRAIN DISHWASHER
INTO GREASE INTERCEPTOR

REFER TO KITCHEN PLANS FOR
EXACT PLACEMENT OF KITCHEN
EQUIPMENT

Electrical Addendum #E1

Project: Meadowood Community Centre
1860 Galvin Place,
Qualicum Beach, B.C.
18-2934

Addendum: #E1

Date: December 02, 2020

This Addendum forms part of the Contract Documents and is to be read, interpreted, and coordinated with all other parts. The cost of all work contained herein shall be included in the Contract Sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof.

The following relates to the electrical requirements for the proposed on-site well (Refer to MSR solutions site plan drawings for well location):

1. Electrical contractor to provide one power 2" underground conduit from panel board A and one communication 2" underground conduit from comm. board in main electrical room to proposed well location as shown on the MSR solutions drawings. Communication conduit to be empty and provided with pull string as per electrical specifications. Provide 15A-2P circuit breaker in panel board A, electrical power point connection to well pump controller, and 15A-2P-WP local disconnect switch at well pump controller.
2. Provide 6 new GFCI-protected duplex receptacles in "Storage room 7". Locate duplex receptacles along back wall as shown on the MSR solutions drawings. Provide 3 dedicated 15A-1P circuit breakers in panel board A for receptacles. Provide 2 receptacles on each dedicated circuit.