

 Extropic
Energy Inc.

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REVISION SCHEDULE

NO.	DATE	DESCRIPTION	BY
1	2025-01-31	IFT REVIEW	DN
2	2025-02-12	ISSUED FOR TENDER	DN

PERMIT TO PRACTICE NUMBER

1001005

CITY OF SALMON ARM

CLIENT

CLIENT PROJECT NUMBER

ECM UPGRADE FOR
SHAW CENTRE

2600 - 10 AVENUE N.E.
SALMON ARM, BC, V1E 2S4

PROJECT NAME & ADDRESS

HUCUL POND ARENA
LEGEND AND SYMBOLS

DRAWING TITLE

PROJECT NUMBER

24E010

DRAWN BY

PH

DESIGNER

GL/SW

ENGINEER

DN

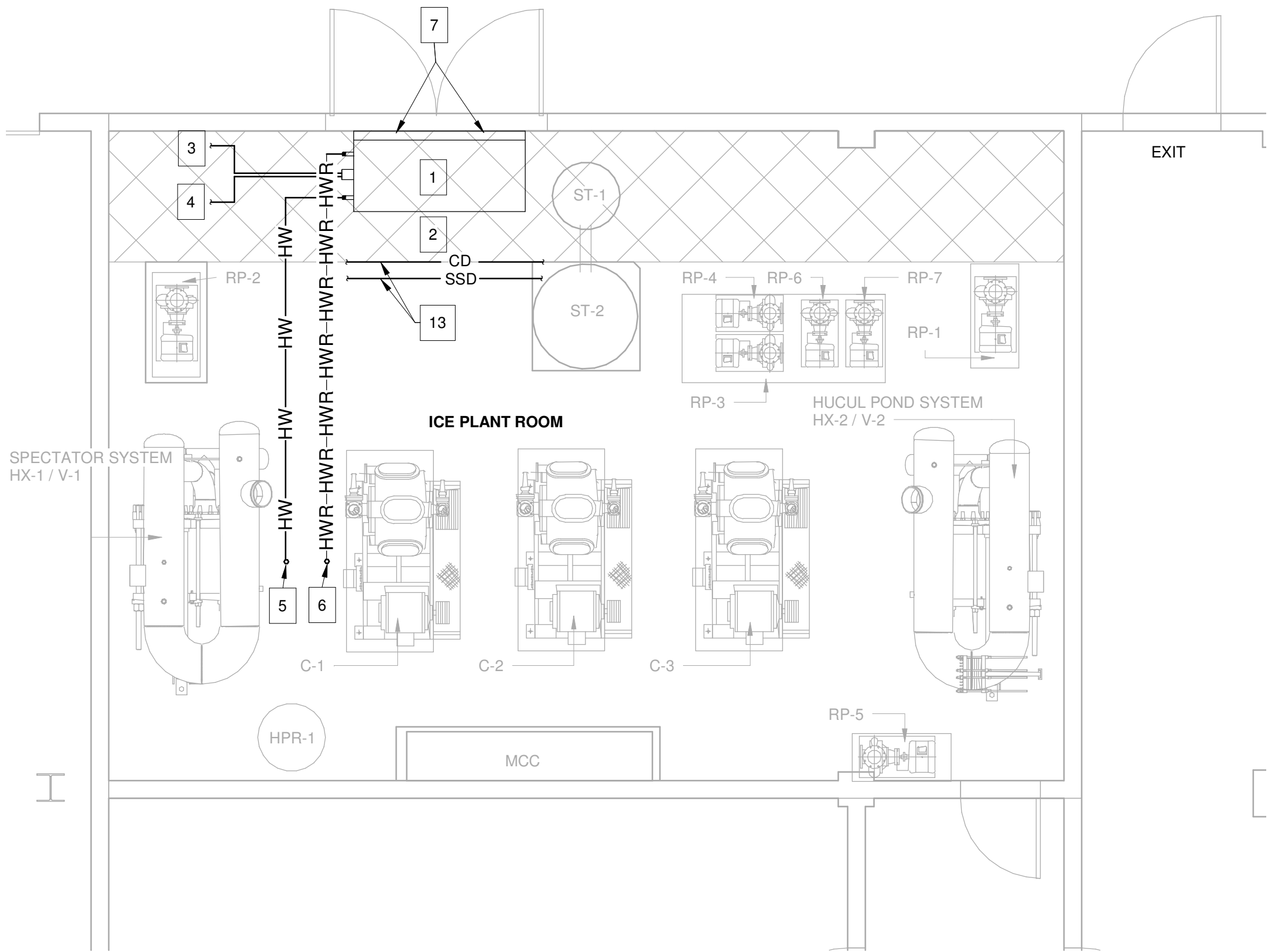
NTS

M100

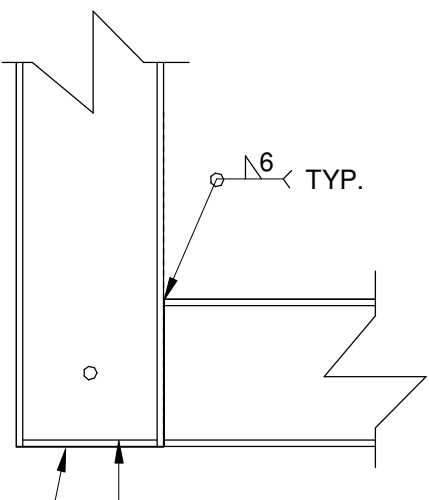
SCALE

DRAWING NO.

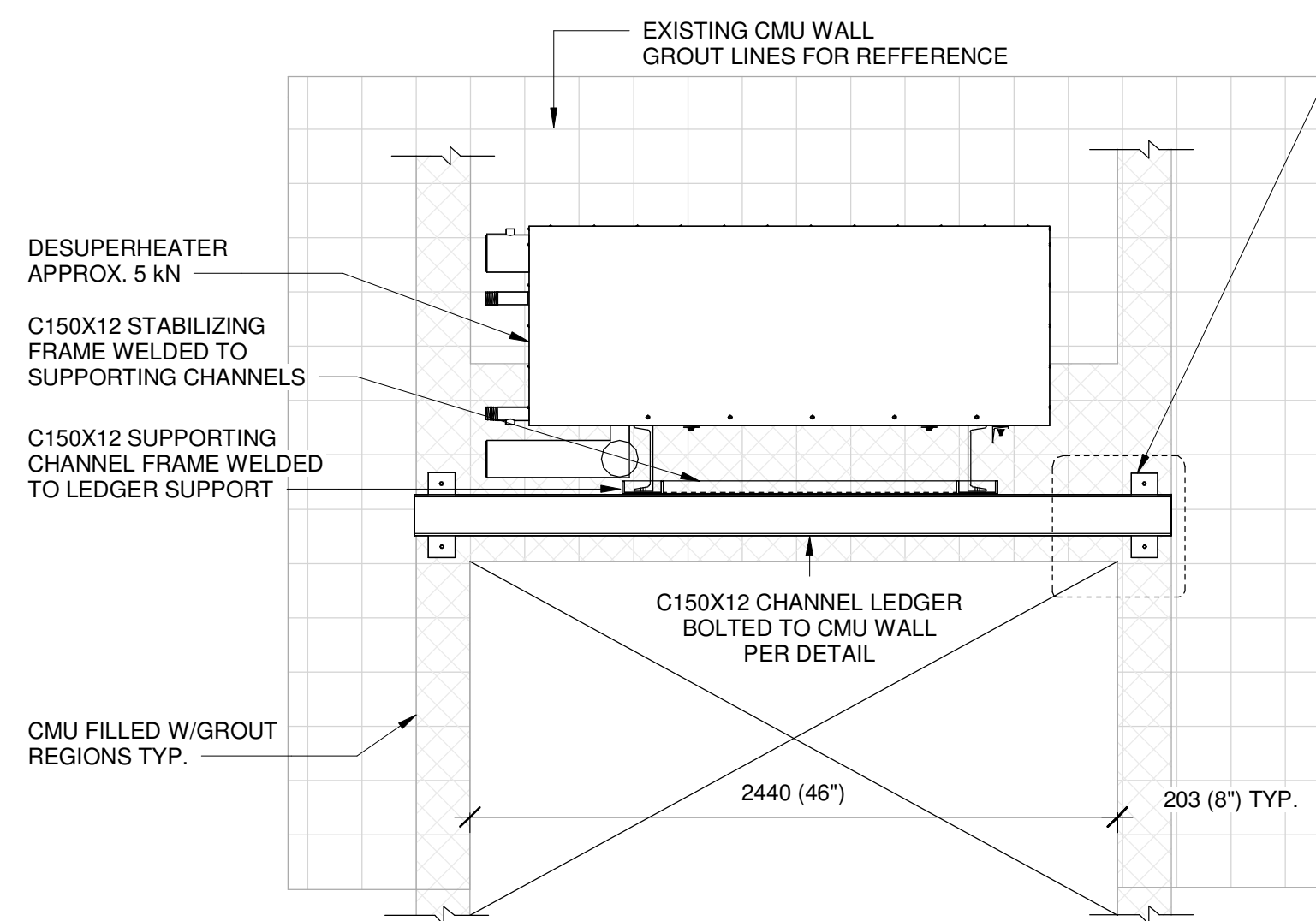
DRAWING NOTES	
NOTE #	DESCRIPTION
1	DESUPERHEATER DSPH-1
2	DESUPERHEATER, DEVICES, REFRIGERANT LINES, AND CONNECTIONS TO ICE PLANT BY REFRIGERATION CONTRACTOR
3	HOT GAS LINE, SIZING, AND CONNECTIONS TOTHE ICE PLANT BY REFRIGERATION CONTRACTOR
4	LOW-PRESSURE LIQUID LINE, SIZING, AND CONNECTIONS TOTHE ICE PLANT BY REFRIGERATION CONTRACTOR
5	40 mm (1.5") HOT WATER PREHEAT SUPPLY LINE FROM THE DESUPERHEATER UP TO MECH. ROOM ABOVE
6	40 mm (1.5") HOT WATER RETURN LINE FROM THE DESUPERHEATER UP TO MECH. ROOM ABOVE
7	MOUNTING COMPONENTS FOR DESUPERHEATER: REFER TO STRUCTURAL DRAWING FOR DETAILS
8	RELOCATE AMMONIA LINES TO PROVIDE CLEARANCE FOR INSTALLATION OF DESUPERHEATER



1 ICE PLANT FLOOR PLAN
1 : 50

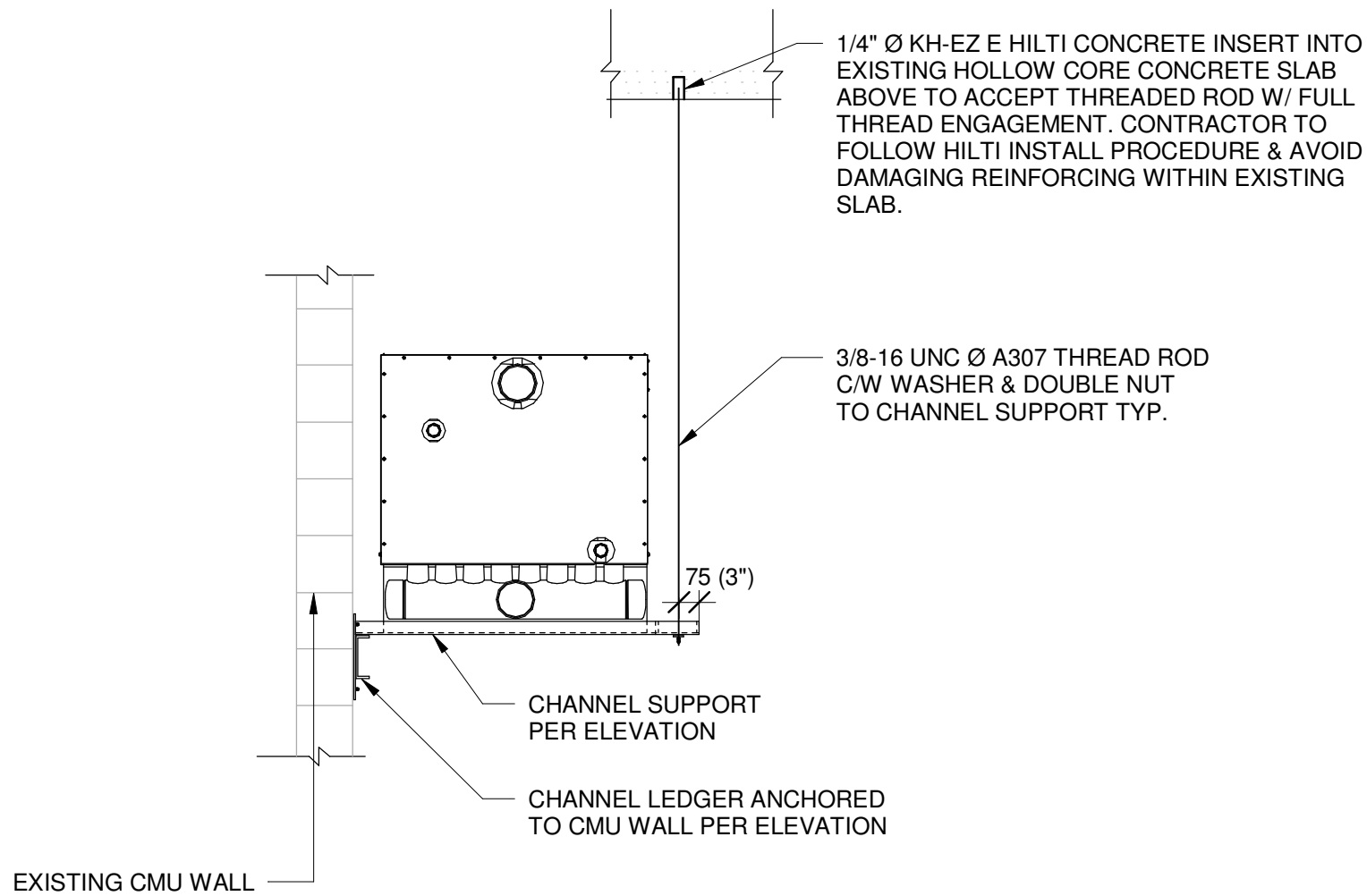
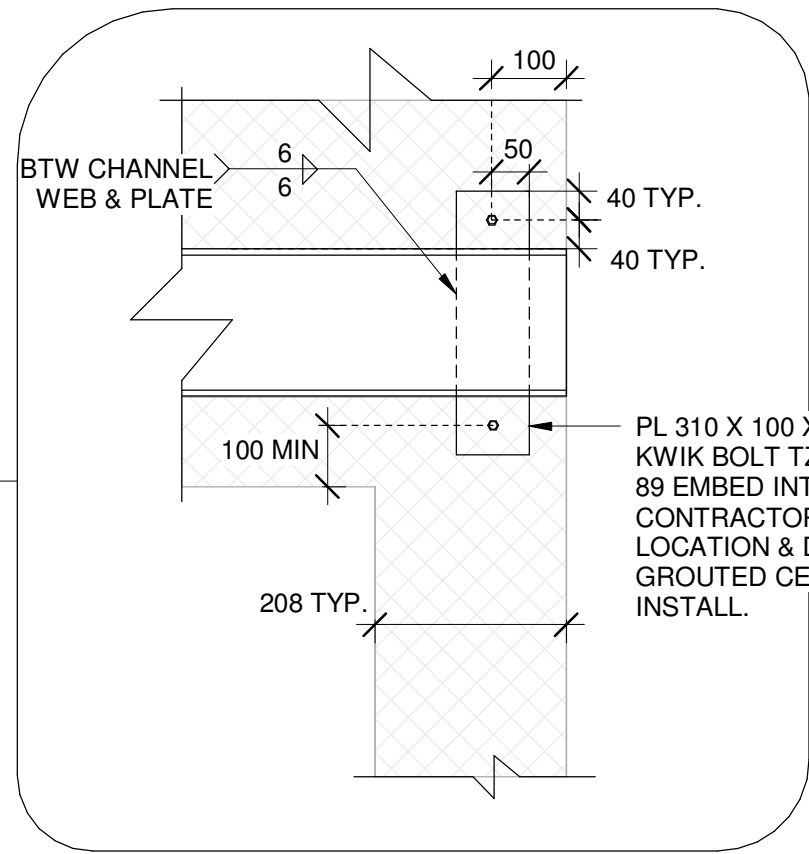


PLAN

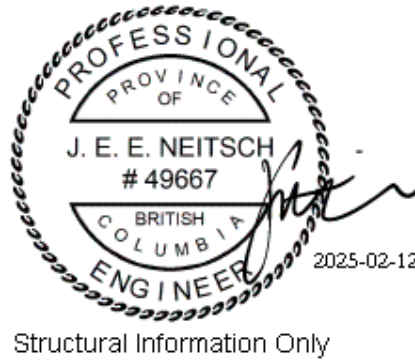


ELEVATION

2 DESUPERHEATER SUPPORT DETAIL
N.T.S.



SIDE VIEW



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ECM UPGRADE FOR
SHAW CENTRE

2800 - 10 AVENUE N.E.
SALMON ARM, BC, V1E 2S4

PROJECT NAME & ADDRESS

HUCUL POND ARENA
LOWER LEVEL FLOOR PLAN

DRAWING TITLE

PROJECT NUMBER 24E010

DRAWN BY PH

DESIGNER GL/SW

ENGINEER DN

AS NOTED

M101

SCALE DRAWING NO.



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ECM UPGRADE FOR SHAW CENTRE

2600 - 10 AVENUE N.E.
SALMON ARM, BC, V1E 2S4

PROJECT NAME & ADDRESS

HUCUL POND ARENA
UPPER LEVEL FLOOR PLAN

DRAWING TITLE

PROJECT NUMBER 24E010

DRAWN BY PH

DESIGNER GL/SW

ENGINEER DN

AS NOTED

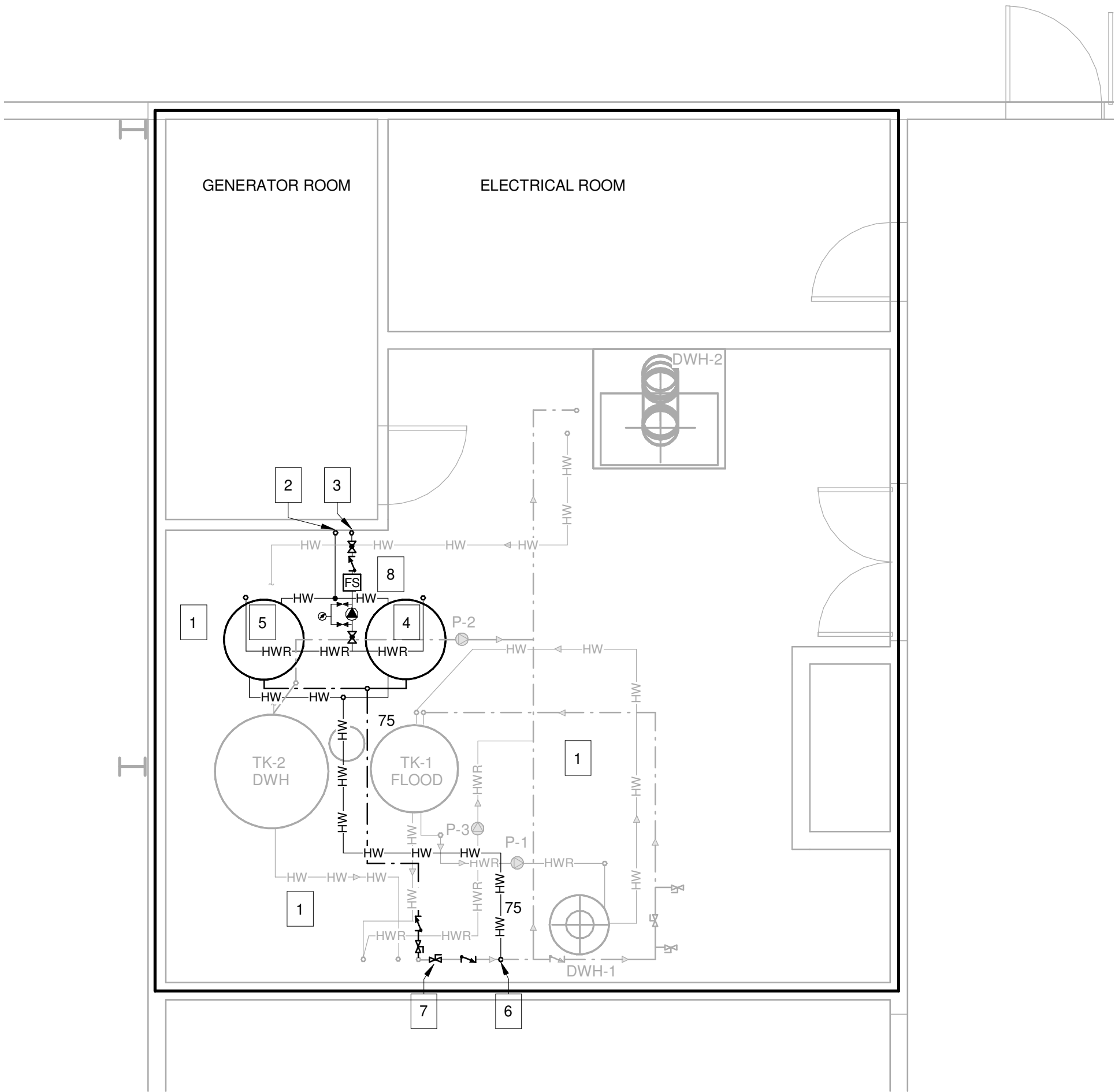
M102

SCALE

DRAWING NO.

DRAWING NOTES

NOTE #	DESCRIPTION
1	REFER TO SCHEMATIC DRAWING M-103 FOR ALL VALVES AND DEVICES
2	40 mm (1.5") HOT WATER PRE-HEAT SUPPLY LINE FROM THE DESUPERHEATER IN THE ICE PLANT ROOM
3	40 mm (1.5") HOT WATER RETURN LINE TO THE DESUPERHEATER IN THE ICE PLAN ROOM
4	NEW PRE-HEAT WATER STORAGE TANK -PHTK-1
5	NEW PRE-HEAT WATER STORAGE TANK -PHTK-2
6	CONNECT THE NEW 75 mm (3") HOT WATER PRE-HEAT LINE TO THE EXISTING 75 mm (3") COLD WATER SYPPLY LINE
7	INSTALL NEW CHECK VALVE AND ISOLATION VALVE INTO EXISTING 75 mm (3") COLD WATER SUPPLY LINE
8	NEW PREHEAT HOT WATER RETURN PUMP PHP-1. FOR ALL VALVES AND DEVICES, REFER TO SCHEMATIC DRAWING M-103



1 MECHANICAL & EL. ROOM
1 : 50



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ECM UPGRADE FOR SHAW CENTRE

2600 - 10 AVENUE N.E.
SALMON ARM, BC, V1E 2S4

PROJECT NAME & ADDRESS

DOMESTIC HOT WATER PREHEAT SCHEMATIC

DRAWING TITLE

PROJECT NUMBER 24E010

DRAWN BY PH

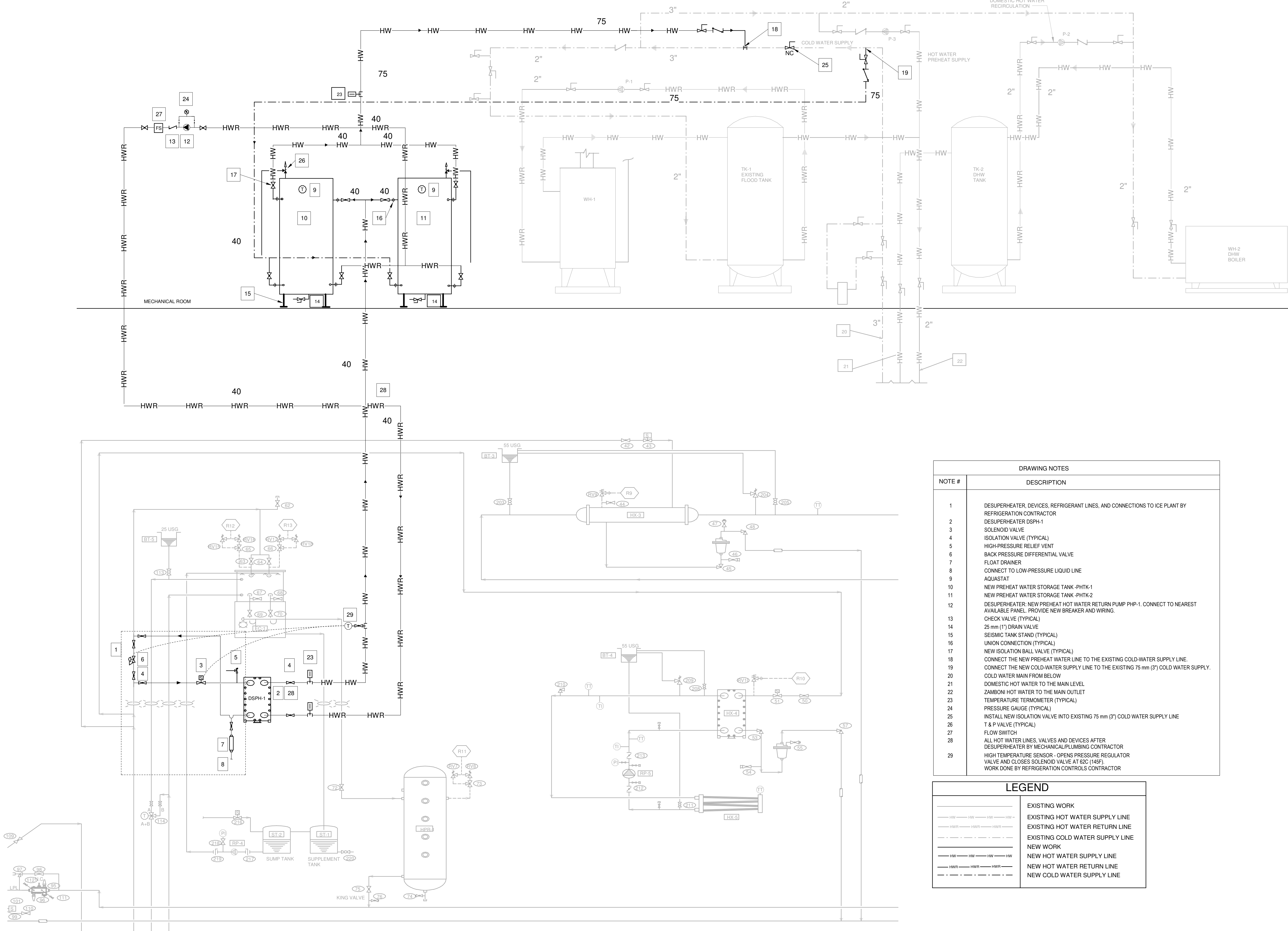
DESIGNER GL/SW

ENGINEER DN

NTS

M103

SCALE DRAWING NO.



DRAWING NOTES	
NOTE #	DESCRIPTION
1	DESUPERHEATER, DEVICES, REFRIGERANT LINES, AND CONNECTIONS TO ICE PLANT BY REFRIGERATION CONTRACTOR
2	DESUPERHEATER DSPH-1
3	SOLENOID VALVE
4	ISOLATION VALVE (TYPICAL)
5	HIGH-PRESSURE RELIEF VENT
6	BACK PRESSURE DIFFERENTIAL VALVE
7	FLOAT DRAINER
8	CONNECT TO LOW-PRESSURE LIQUID LINE
9	AQUASTAT
10	NEW PREHEAT WATER STORAGE TANK -PHTK-1
11	NEW PREHEAT WATER STORAGE TANK -PHTK-2
12	DESUPERHEATER- NEW PREHEAT HOT WATER RETURN PUMP PHP-1. CONNECT TO NEAREST AVAILABLE PANEL. PROVIDE NEW BREAKER AND WIRING.
13	CHECK VALVE (TYPICAL)
14	25 mm (1") DRAIN VALVE
15	SEISMIC TANK STAND (TYPICAL)
16	UNION CONNECTION (TYPICAL)
17	NEW ISOLATION BALL VALVE (TYPICAL)
18	CONNECT THE NEW PREHEAT WATER LINE TO THE EXISTING COLD-WATER SUPPLY LINE.
19	CONNECT THE NEW COLD-WATER SUPPLY LINE TO THE EXISTING 75 mm (3") COLD WATER SUPPLY.
20	COLD WATER MAIN FROM BELOW
21	DOMESTIC HOT WATER TO THE MAIN LEVEL
22	ZAMBONI HOT WATER TO THE MAIN OUTLET
23	TEMPERATURE TERMOMETER (TYPICAL)
24	PRESSURE GAUGE (TYPICAL)
25	INSTALL NEW ISOLATION VALVE INTO EXISTING 75 mm (3") COLD WATER SUPPLY LINE
26	T & P VALVE (TYPICAL)
27	FLOW SWITCH
28	ALL HOT WATER LINES, VALVES AND DEVICES AFTER DESUPERHEATER BY MECHANICAL/PLUMBING CONTRACTOR
29	HIGH TEMPERATURE SENSOR - OPENS PRESSURE REGULATOR VALVE AND CLOSES SOLENOID VALVE AT 68C (145F). WORK DONE BY REFRIGERATION CONTROLS CONTRACTOR

LEGEND	
	EXISTING WORK
	EXISTING HOT WATER SUPPLY LINE
	EXISTING HOT WATER RETURN LINE
	EXISTING COLD WATER SUPPLY LINE
	NEW WORK
	NEW HOT WATER SUPPLY LINE
	NEW HOT WATER RETURN LINE
	NEW COLD WATER SUPPLY LINE

DATE PRINTED: 2025-02-12 12:39 PM

1 DOMESTIC HOT WATER PREHEAT SCHEMATIC
NTS

ORIGINAL SHEET SIZE: 24"x36" (ARCH D)

GENERAL NOTES FOR STRUCTURAL DESIGN

GENERAL

- THESE DRAWINGS SHOW THE COMPLETED STRUCTURAL WORK FOR THE INSTALLATION OF THE DESUPERHEATER AT THE SHAW CENTRE IN SALMON ARM.
- BUILDING AND STRUCTURAL ELEMENTS NOT SHOWN ON THESE DRAWINGS BUT NECESSARY FOR THE COMPLETION OF THE BUILDING SHALL BE DESIGNED BY THE GENERAL CONTRACTOR.
- THE CONTRACTOR IS TO READ AND VERIFY ALL DIMENSIONS AND INFORMATION ON THESE DOCUMENTS PRIOR TO COMMENCING WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION AND DESIGN OF TEMPORARY BRACING OR SHORING FOR STABILITY DURING EXCAVATION AND CONSTRUCTION TO ENSURE SAFETY AT THE JOB SITE AND ADHERENCE TO WORK SAFE REGULATION.

ABBREVIATIONS

T.O. ----- TOP OF
U/S ----- UNDERSIDE
E/F ----- EACH FACE
E/S ----- EACH SIDE
U.N.O. --- UNLESS NOTED OTHERWISE
CLR ----- CLEAR
C/W ----- COMPLETE WITH
PL ----- PLATE

FIELD REVIEW BY EXTROPIC

EXTROPIC PROVIDES FIELD REVIEW ONLY FOR THE WORK SHOWN ON THESE STRUCTURAL DRAWINGS. THIS REVIEW IS NOT A "FULL TIME" REVIEW BUT IS CONDUCTED WITH SUCH FREQUENCY AS EXTROPIC DEEMS APPROPRIATE TO OBSERVE VARIOUS STAGES OF THE WORK AND TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS PREPARED BY EXTROPIC. FIELD REVIEW BY EXTROPIC IS NOT CARRIED OUT FOR THE CONTRACTOR'S BENEFIT, NOR DOES IT MAKE EXTROPIC GUARANTORS OF THE CONTRACTOR'S WORK. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO BUILD THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. EXTROPIC SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

EXTROPIC WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON EXTROPIC'S DRAWINGS. THE EXTENT OF THIS REVIEW IS AT THE SOLE DISCRETION OF EXTROPIC'S ENGINEER AND IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMANCE WITH THE STRUCTURAL DESIGN CONCEPT. THE REVIEW IS NOT AN APPROVAL OF THE DESIGN, DETAILS, AND DIMENSIONS INHERENT IN THE SHOP DRAWINGS, RESPONSIBILITY FOR WHICH SHALL REMAIN WITH THE CONTRACTOR OR SUBCONTRACTOR SUBMITTING THEM. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTOR OF HIS OR HER RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS OR FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.

PROVIDE 24 HOURS ADVANCE NOTICE OF EACH REQUIRED FIELD REVIEW. FIELD REVIEWS SHALL BE SCHEDULED TO BE CARRIED OUT DURING NORMAL BUSINESS HOURS UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH EXTROPIC.

THE WORK TO BE REVIEWED SHALL BE GENERALLY COMPLETE.

DESIGN LOADS & CODES

- THE GOVERNING BUILDING CODE SHALL BE: THE BRITISH COLUMBIA BUILDING CODE, 2024 EDITION AND ALL REFERENCE CODES AND STANDARDS LISTED WITHIN.
- AS APPROPRIATE, THE SUPPLEMENT TO THE NATIONAL BUILDING CODE OF CANADA SHALL BE USED WHERE IT COMPLIMENTS THE ABOVE MENTIONED GOVERNING CODES.
- THE FOLLOWING DESIGN ITEMS CONFORM TO THE GIVEN CODES:
 - CONCRETE DESIGN: CAN/CSA A23.3-14
 - STRUCTURAL STEEL: CAN/CSA S16-14
 - MASONRY: CAN/CSA S304.1

DESIGN PARAMETERS & CLIMATIC DATA

LOCATION: SALMON ARM, BC
IMPORTANCE CATEGORY = POST DISASTER
SITE CLASS: D (ASSUMED)
SEISMIC LOAD CALCULATED PER CATEGORY 11 OF TABLE 4.1.8.18
Sa (0.2) = 0.24
Sa (0.5) = 0.22
Sa (1.0) = 0.17

STRUCTURAL STEEL

STRUCTURAL STEEL SECTIONS SHALL BE NEW AND CONFORM TO THE FOLLOWING:

- MISCELLANEOUS ROLLED SECTIONS, INCLUDING CHANNELS AND ANGLES ----- CSA G40.21 GRADE 300W
- HOLLOW STRUCTURAL SECTIONS (CLASS C U.N.O.) --- CSA G40.21 GRADE 350W
- ROLLED PLATES ----- CSA G40.21 GRADE 300W
- BOLTS (SEE PLANS AND DETAILS) ----- ASTM A325 OR ASTM A490
- STRUCTURAL STEEL ANCHOR RODS (U.N.O.) ----- ASTM F1554 GRADE 36 MINIMUM
- REINFORCING BAR ANCHOR BOLTS ----- CSA G30.18 GRADE 400R

PRIOR TO SUBMITTING SHOP DRAWINGS THE CONTRACTOR SHALL NOTIFY EXTROPIC IN WRITING THAT THE FABRICATOR IS CERTIFIED TO A MINIMUM OF DIVISION 2 OF CSA W47.1.

SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO START OF STEEL FABRICATION.

FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STEEL SHALL BE IN ACCORDANCE WITH CSA S16.

FILLET WELDS SHALL BE 3/16" MINIMUM U.N.O.

STEEL TO BE EXPOSED IN FINISHED WORK SHALL BE CLEANED, PREPARED, PRIMED AND PAINTED IN ACCORDANCE WITH CSA S16 AND THE ARCHITECTURAL DRAWINGS AND PAINTING SPECIFICATION.

UNLESS NOTED OTHERWISE, DO NOT OVERSIZE HOLES IN STEEL TO FIT ANY ANCHOR LOCATIONS.

TOP FLANGES OF BEAMS TO BE FREE OF ALL PAINT, DIRT, HEAVY RUST, MILL SCALE, SAND AND OTHER MATERIALS WHICH WILL INTERFERE WITH WELDING OF STUD SHEAR CONNECTIONS AND STEEL DECK TO BEAMS.

GENERAL SEISMIC REQUIREMENTS:

- WELDS AND WELD MATERIAL SHALL SATISFY CSA S16 CLAUSE 27.1.5.3 (CHARPY REQUIREMENTS).

POST-INSTALLED ADHESIVE AND MECHANICAL ANCHORS

PRODUCTS

MECHANICAL ANCHORS TO MEET THE ASSESSMENT CRITERIA OF ACI 355.2.

ADHESIVE ANCHORS TO MEET THE ASSESSMENT CRITERIA OF ACI 355.4.

EXCEPT WHERE NOTED OTHERWISE ON THE DRAWINGS, ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI (CANADA) LTD. CONTACT HILTI AT (800) 363-4458 FOR PRODUCT RELATED QUESTIONS.

ANCHOR CAPACITY USED IN DESIGN IS BASED ON ICC TEST REPORT DATA AND GUIDELINES PUBLISHED BY HILTI.

ALTERNATE FASTENING SYSTEMS PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. ALTERNATE ADHESIVE OR MECHANICAL ANCHORS MUST BE EQUAL CONSIDERING LOAD RESISTANCE, USE IN CRACKED OR UNCRACKED CONCRETE, IN SERVICE AND INSTALLATION TEMPERATURE, AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS, CREEP TESTING, SEISMIC TESTING, AND APPROPRIATE ON SITE TRAINING. PERFORMANCE OF ALTERNATE SYSTEMS MUST BE VALIDATED BY ICC ESR TEST REPORTS AND MUST BE QUALIFIED UNDER ACI 355.2 OR ACI 355.4 AS APPROPRIATE.

REDESIGN OR REVIEW OF CONNECTIONS BY EXTROPIC TO UTILIZE ANCHOR SYSTEMS BY OTHER MANUFACTURERS AND REQUESTED BY THE CONTRACTOR TO BE PAID FOR BY THE CONTRACTOR.

INSTALLATION

INSTALL ANCHORS PER THE MANUFACTURER'S INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.

ADHESIVE OR MECHANICAL ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO THE EDGE OF THE CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

ADHESIVE OR MECHANICAL ANCHOR CAPACITY IS DEPENDENT ON THE HOLE DRILLING METHOD AND HOLE CLEANING TECHNIQUE. UNLESS NOTED OTHERWISE, ALL ANCHOR CAPACITIES ARE BASED ON HAMMER-DRILLED HOLES USING CARBIDE-TIPPED BITS AND STANDARD HOLE CLEANING USING MULTIPLE BRUSHING AND AIR BLAST STEPS. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, DO NOT SUBSTITUTE OTHER HOLE DRILLING METHODS (DIAMOND CORING, SAFESET, ETC.) OR HOLE CLEANING METHODS (SAFESET, ETC.) WITHOUT PRIOR WRITTEN APPROVAL BY EXTROPIC.

DO NOT CUT REINFORCING BARS TO INSTALL ANCHORS UNLESS THE STRUCTURAL DRAWINGS SPECIFICALLY NOTE A PARTICULAR DETAIL THAT THE REINFORCING BARS IN THE CONCRETE OR MASONRY CAN BE CUT.

EXISTING REINFORCING BARS IN THE CONCRETE OR MASONRY STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF CONCRETE ANCHORS. BY HILTI FERROSCAN, HILTI PS 1000, GPR, X-RAY, OR OTHER MEANS, BEFORE ANY HOLES ARE DRILLED.

AT LOCATIONS OF INTERFERENCE BETWEEN CONCRETE ANCHORS AND EXISTING REINFORCEMENT, ADJUST PROPOSED LOCATIONS OF ANCHORS AS REQUIRED TO AVOID CUTTING REINFORCEMENT. SUBMIT A PROPOSED ANCHOR LAYOUT TO EXTROPIC FOR REVIEW AND APPROVAL BEFORE INSTALLING ANCHORS.

WHEN ANCHORS ARE USED TO ATTACH STRUCTURAL STEEL, THE CONTRACTOR SHALL USE A TEMPLATE TO LOCATE THE ANCHOR HOLES. IF THIS IS NOT DONE OR IF ANCHORS ARE RE-LOCATED DUE TO CONFLICTS, THE CONTRACTOR SHALL PREPARE TEMPLATES OF THE AS-BUILT ANCHOR POSITIONS UPON COMPLETION OF ANCHOR INSTALLATION. THE CONTRACTOR SHALL REFER TO THESE TEMPLATES FOR THE FABRICATION OF THE STEEL STRUCTURE.

DO NOT OVERSIZE HOLES IN STEEL MATERIAL TO FIT ANCHOR LOCATIONS.

THE EXPOSED PORTION OF ANCHORS INCLUDES MANUFACTURER'S MARKINGS THAT DESIGNATE ANCHOR TYPE, MATERIAL GRADE, LENGTH, ETC. CUTTING OFF OF THESE MARKINGS PRIOR TO REVIEW OF ANCHOR INSTALLATION IN CONFORMANCE WITH THE STRUCTURAL DRAWINGS WILL RESULT IN REJECTION OF THE ANCHORS.

ON-SITE TRAINING AND CERTIFICATION

THE CONTRACTOR SHALL RETAIN AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE INSTALLATION TRAINING FOR ALL OF THE ANCHORING PRODUCTS SPECIFIED.

ALL PERSONNEL WHO INSTALL ANCHORS MUST HAVE RECEIVED TRAINING WITHIN THE PREVIOUS 12 MONTHS FOR THE SPECIFIC ANCHOR SYSTEM TO BE UTILIZED.

SUBMIT CERTIFICATION OF TRAINING FOR ALL OF THE CONTRACTOR'S PERSONNEL WHO MAY BE INSTALLING ANCHORS TO THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.



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HUCUL POND ARENA GENERAL NOTES FOR STRUCTURAL DESIGN

DRAWING TITLE	
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DESIGNER	GL/SW
ENGINEER	DN

NTS	M104
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