ATTACHMENT 37

Waste Transfer Station Construction Summary Report

CONSTRUCTION SUMMARY REPORT

CITY OF IQALUIT
Department of Engineering and Capital Projects

SERVICE CONTRACT INFORMATION			
Project/ Contract Title:	Waste Transfer Station		
Service Contract #:	SC	Consultant:	Dillon Consulting Limited
City Representative:	Kevin Kerr	Consultant PM:	Sarah Devereaux

PROJECT SUMMARY

Engineer on Record (designer) confirms project was constructed in line with design drawings, with construction changes noted on the record drawing. ☐

SCHEDULE SUMMARY

Planned Contract Start Date	Actual Contract Start Date	Planned Contract Completion Date	Actual Contract Completion Date
July 30, 2023	July 18, 2023	November 10, 2024	February 28, 2025

APPENDICES

Appendix A: Waste Transfer Station Record Drawing

SIGN-OFF

Christopher Shortall	Christopher Shortall	December 19, 2025
Engineer of Record Name	Signature	Date

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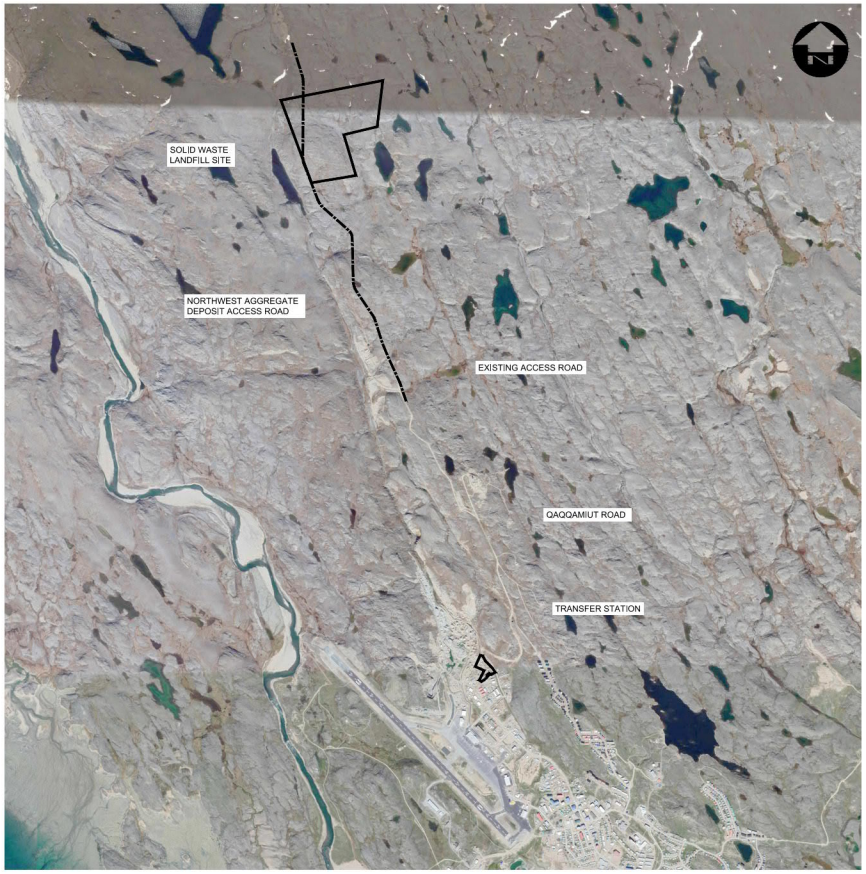
CITY OF IQALUIT
WASTE TRANSFER STATION
RECORD



KEY PLAN

DILLON PROJECT: 19-9543
DATE: MARCH 30, 2025

DILLON
CONSULTING

Iqaluit

CITY OF IQALUIT
WASTE TRANSFER STATION

DRAWING INDEX - WASTE TRANSFER STATION	
DWG.	DESCRIPTION
	CIVIL
WTS-C01	EXISTING CONDITIONS SITE PLAN
WTS-C02	PROPOSED SITE PLAN
WTS-C03	EROSION CONTROL PLAN
WTS-C04	SITE GRADING PLAN, PROFILES AND SECTIONS
WTS-C05	MISCELLANEOUS DETAILS
WTS-C06	SITE SIGNAGE DETAILS
	STRUCTURAL
WTS-S01	STRUCTURAL NOTES
WTS-S02	THERMOSYPHON PLAN
WTS-S03	SLAB PLAN
WTS-S04	MEZZANINE PLAN
WTS-S05	SLAB REINFORCING PLAN
WTS-S06	SLAB SECTIONS & DETAILS 1
WTS-S07	SLAB SECTIONS & DETAILS 2
WTS-S08	SLAB SECTIONS & DETAILS 3
WTS-S09	BASE PLATES, SLAB SECTION & TYPICAL DETAILS
WTS-S10	MEZZANINE SECTIONS & DETAILS
	ARCHITECTURAL
WTS-A01	FLOOR PLAN
WTS-A02	ENLARGED FLOOR PLAN, MEZZANINE PLAN, SCHEDULES, DOOR, FRAME ELEVATIONS, ABBREVIATIONS
WTS-A03	PLAN DETAILS
WTS-A04	BUILDING ELEVATIONS
WTS-A05	CROSS SECTIONS SHEET 1
WTS-A06	CROSS SECTIONS SHEET 2 - FIRE RATED ASSEMBLY PLANS
WTS-A07	WALL SECTIONS SHEET 1
WTS-A08	WALL SECTIONS SHEET 2
WTS-A09	SECTION DETAILS
WTS-A10	MISCELLANEOUS METALS ELEVATIONS, SECTIONS
WTS-A11	PRE-FABRICATED OFFICE FLOOR PLAN PRE-FABRICATED SCALE HOUSE FLOOR PLAN
WTS-A12	PRE-FABRICATED ATTENDANT BUILDING FLOOR PLAN
	MECHANICAL
WTS-M01	MECHANICAL LAYOUT - PLUMBING
WTS-M02	MECHANICAL LAYOUT - HVAC
WTS-M03	LARGE SCALE BOILER ROOM - PLUMBING LAYOUT
WTS-M04	LARGE SCALE BOILER ROOM - HVAC PIPING LAYOUT
WTS-M05	LARGE SCALE BOILER ROOM - HVAC LAYOUT
WTS-M06	MECHANICAL LAYOUT - MEZZANINE
WTS-M07	MECHANICAL SECTION - MEZZANINE
WTS-M08	SITE OFFICE - PLUMBING LAYOUT
WTS-M09	SITE OFFICE AND SCALE HOUSE - HVAC LAYOUT
WTS-M10	HYDRONIC HEATING SYSTEM - FLOW DIAGRAM
WTS-M11	MECHANICAL DETAILS
WTS-M12	MECHANICAL DETAILS
WTS-M13	MECHANICAL DETAILS
WTS-M14	MECHANICAL DETAILS
WTS-M15	MECHANICAL SCHEDULES
	ELECTRICAL
WTS-E00	ELECTRICAL - SITE PLAN
WTS-E01	POWER PLAN MAIN BUILDING AREA
WTS-E02	POWER & SYSTEMS PLAN SERVICE ROOMS, PANEL SCHEDULES
WTS-E03	LIGHTING PLAN MAIN BUILDING
WTS-E04	LIGHTING PLAN SERVICE ROOMS, FIXTURE SCHEDULE
WTS-E05	OVERALL SITE POWER, SINGLE LINE DIAGRAM
WTS-E06	ELECTRICAL PLAN - SITE OFFICE & SCALE HOUSE
WTS-E07	SECURITY CAMERA SYSTEM
	FIRE PROTECTION
WTS-FP01	FIRE PROTECTION FLOOR PLAN
WTS-FP02	FIRE PROTECTION SYSTEM

DILLON PROJECT: 19-9543
DATE: MARCH 30, 2025

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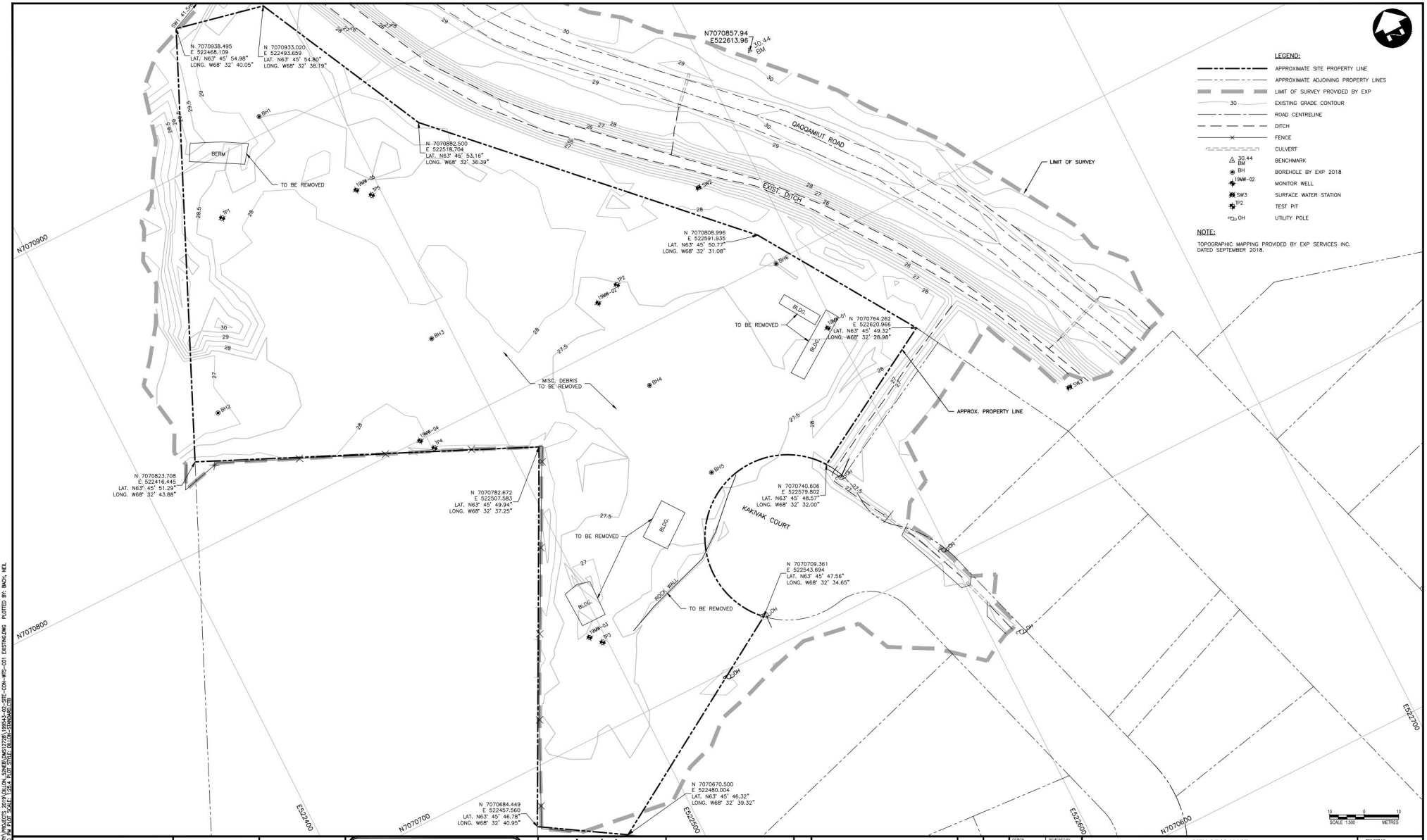

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10	ISSUED FOR CONSTRUCTION	2022/11/04	K.B.
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7	TENDER	2022/04/14	K.B.
6	REVIEW	2021/09/24	K.B.
5	REVIEW	2021/06/25	K.B.
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3	90% REVIEW	2020/01/24	K.B.
2	50% REVIEW	2019/10/23	K.B.
1	30% REVIEW	2019/06/04	K.B.

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DRAWN: D.B.C./D.T.M. | CHECKED BY: K.B.
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SCALE: 1:500

CITY OF IQALUIT
WASTE TRANSFER STATION

EXISTING CONDITIONS SITE PLAN

PROJECT NO. **19-9543**

SHEET NO. **WTS-C01**

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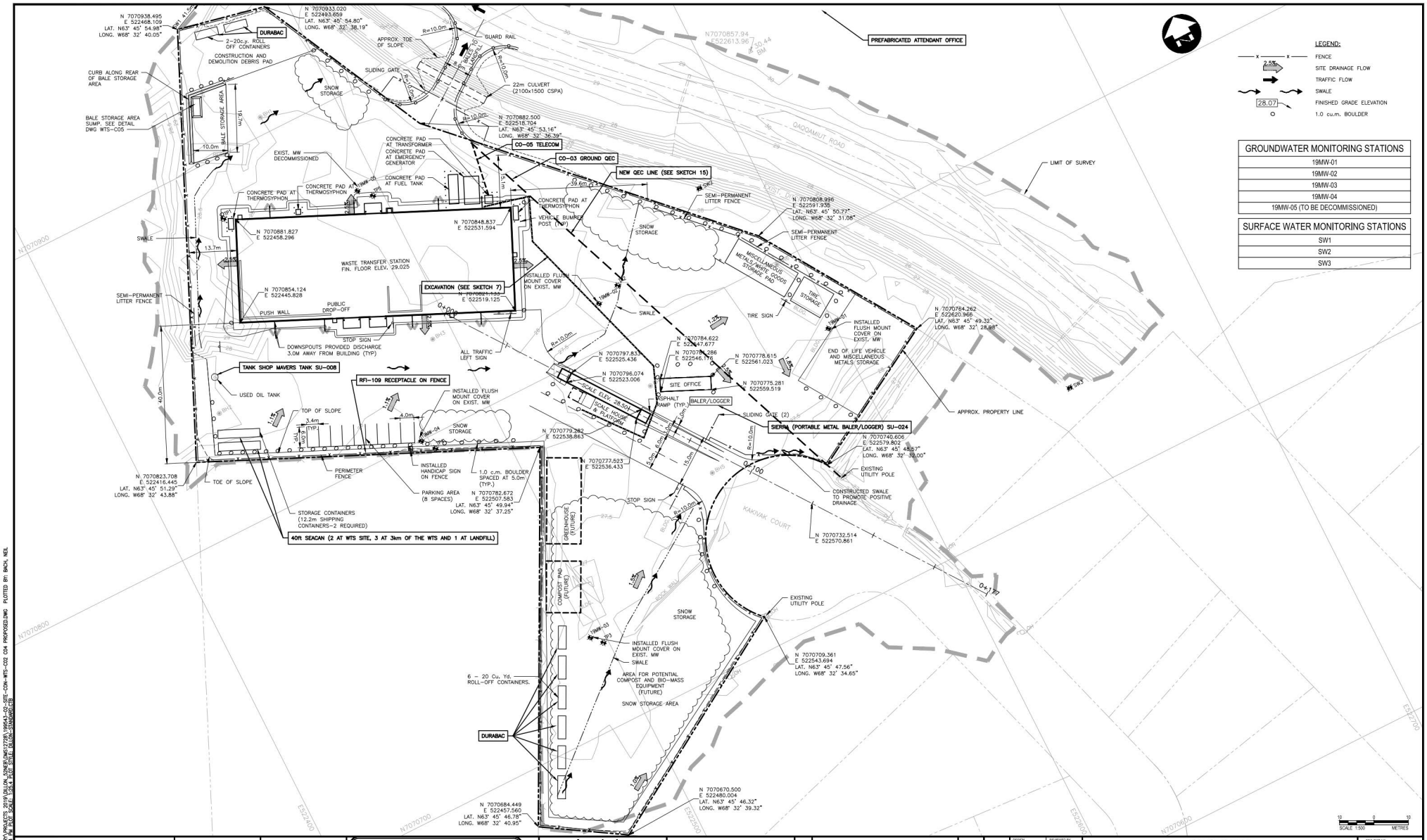

LEGEND:

- FENCE
- SITE DRAINAGE FLOW
- TRAFFIC FLOW
- SWALE
- FINISHED GRADE ELEVATION
- 1.0 cu.m. BOULDER

GROUNDWATER MONITORING STATIONS
19MW-01
19MW-02
19MW-03
19MW-04
19MW-05 (TO BE DECOMMISSIONED)

SURFACE WATER MONITORING STATIONS
SW1
SW2
SW3

FILENAME: C:\PW_WORKING DIRECTORY\PROJECTS 2019\DILLON_ZONER\DMS12726\19543-02-SITE-CON-WTS-C02 C04 PROPOSED.DWG PLOTTED BY: BACH, NEIL
PLOT DATE: 2022-07-21 @ 3:40:54 PM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB

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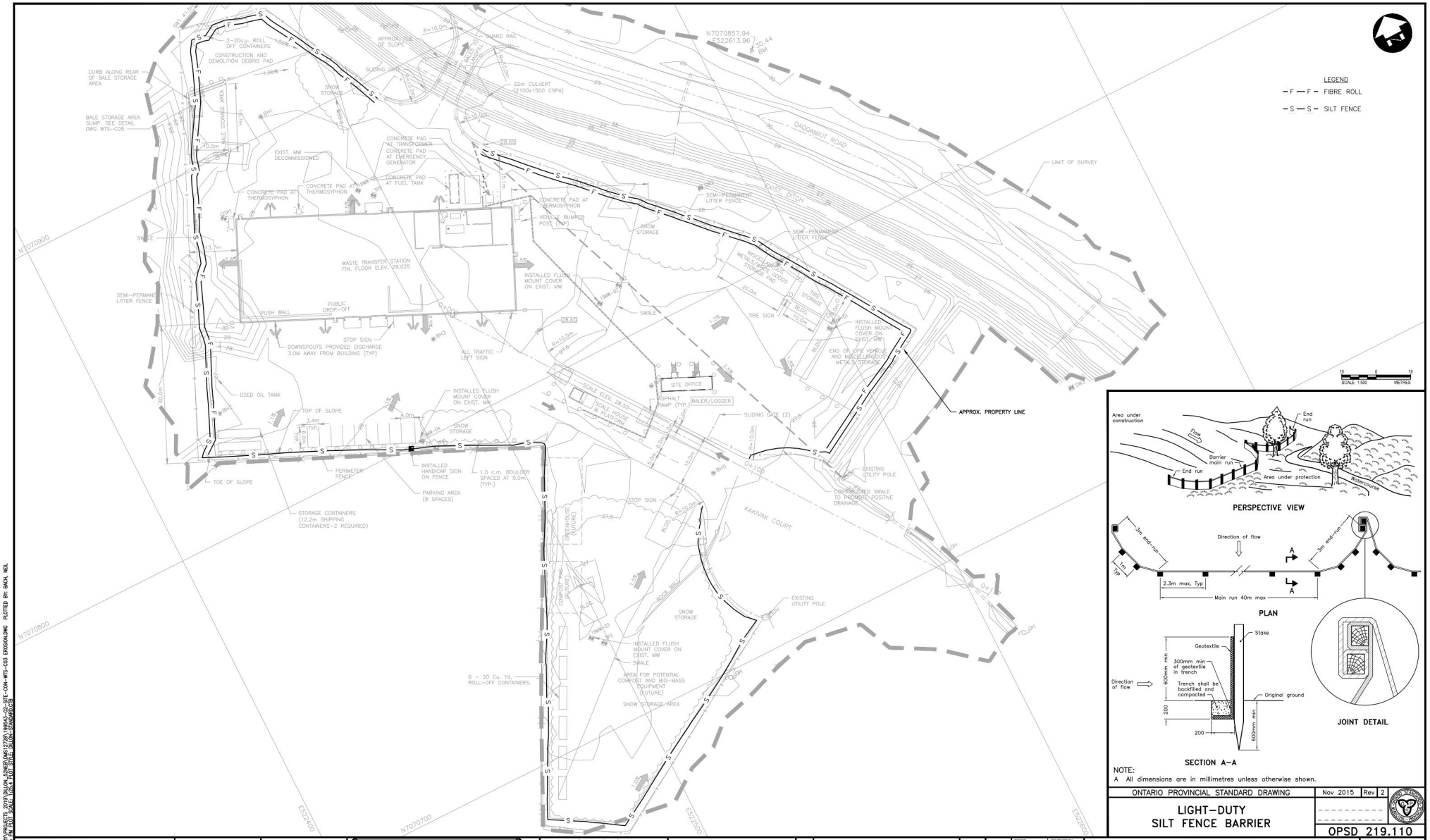
CITY OF IQALUIT
WASTE TRANSFER STATION

PROPOSED SITE PLAN

PROJECT NO. 19-9543

SHEET NO. **WTS-C02**



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DATE: NOVEMBER 2022
SCALE: 1:500

CITY OF IQALUIT
WASTE TRANSFER STATION

EROSION CONTROL PLAN

PROJECT NO. 19-9543

SHEET NO. **WTS-C03**

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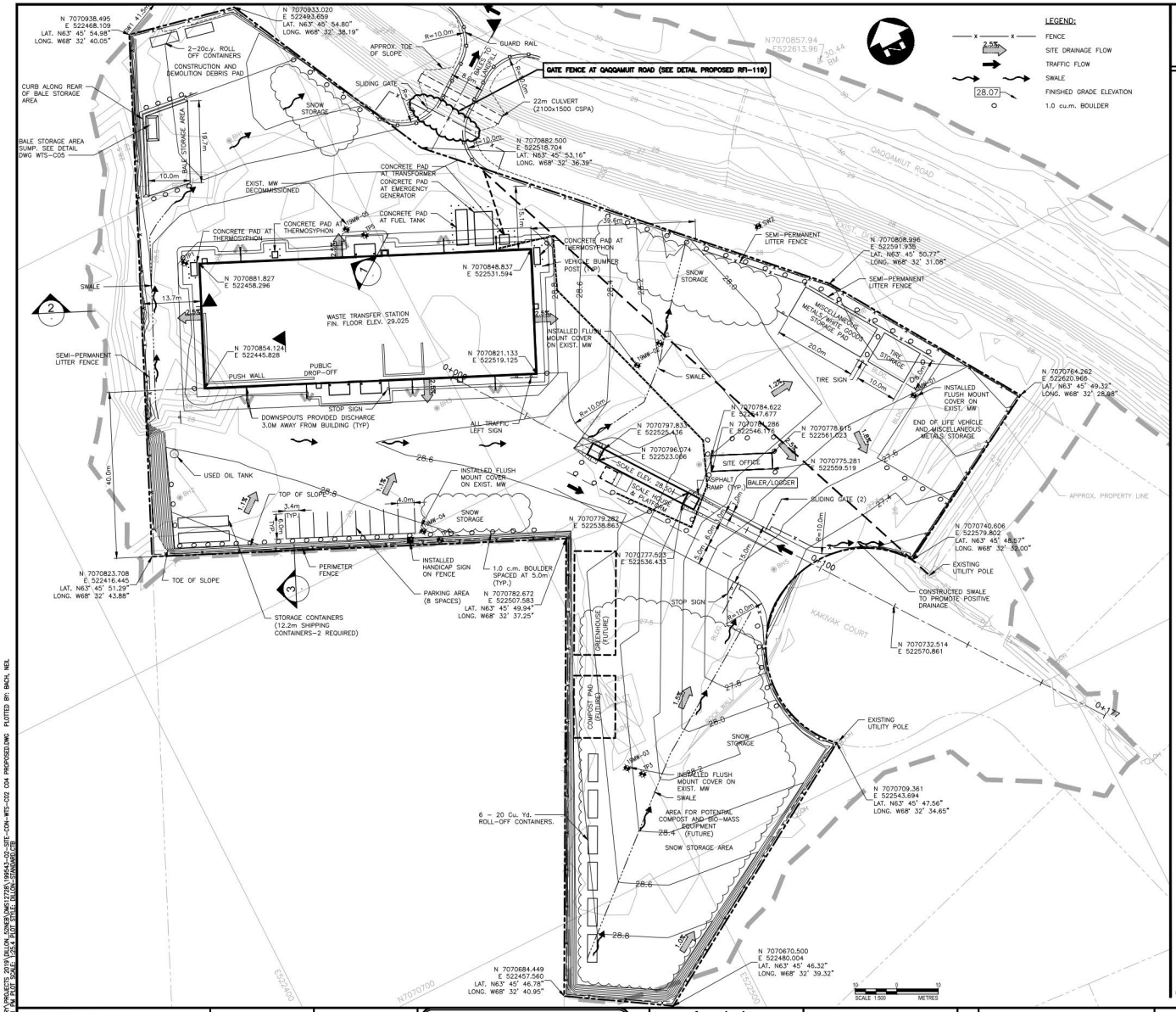

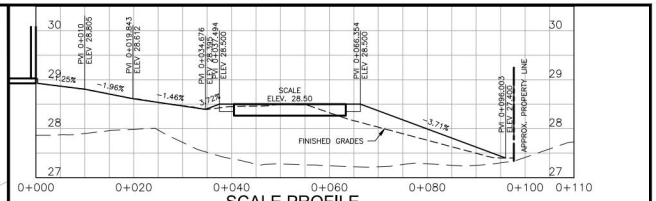

SCALE PROFILE
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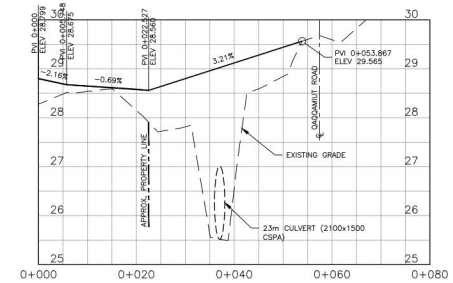

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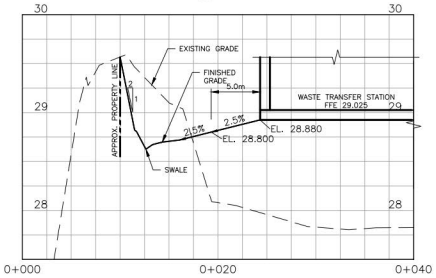

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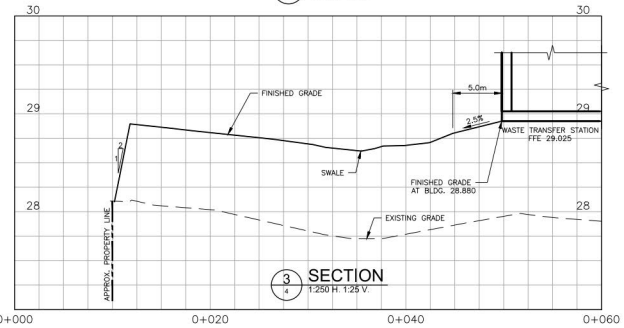

3/4 SECTION
1:250 H. 1:25 V.

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DATE: NOVEMBER 2022
SCALE: 1:500 H. 1:50 V.

CITY OF IQALUIT
WASTE TRANSFER STATION

SITE GRADING PLAN, PROFILES AND SECTIONS

PROJECT NO. 19-9543
SHEET NO. **WTS-C04**

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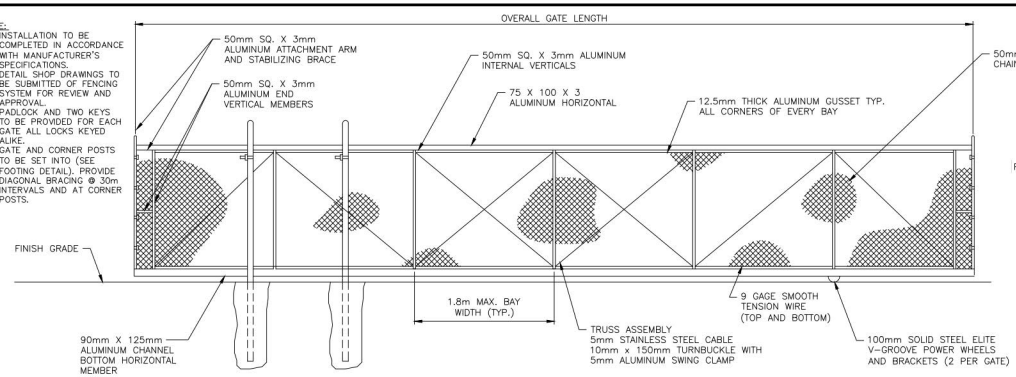
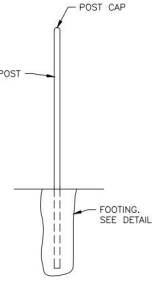
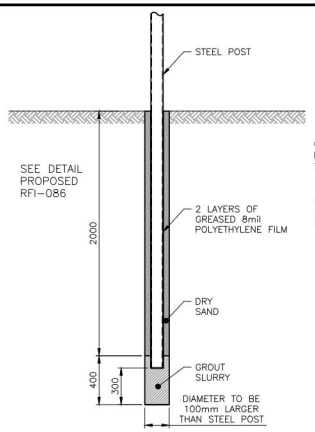
NOTE:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DETAIL SHOP DRAWINGS TO BE SUBMITTED OF FENCING SYSTEM FOR REVIEW AND APPROVAL.
3. PADLOCK AND TWO KEYS TO BE PROVIDED FOR EACH GATE ALL LOCKS KEYED ALIKE.
4. GATE AND CORNER POSTS TO BE SET INTO (SEE FOOTING DETAIL). PROVIDE DIAGONAL BRACING @ 30m INTERVALS AND AT CORNER POSTS.



GATE DETAIL
N.T.S.



GATE SIDE ELEVATION



GATE AND FENCE FOOTING DETAIL
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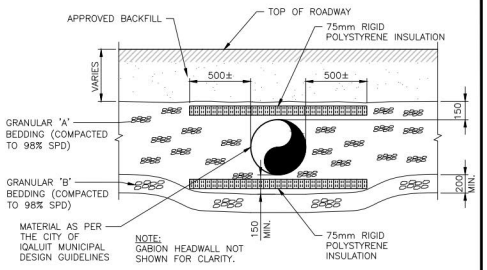

TYPICAL CULVERT
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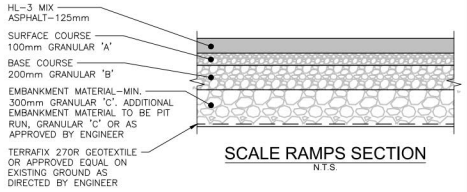

SCALE RAMPS SECTION
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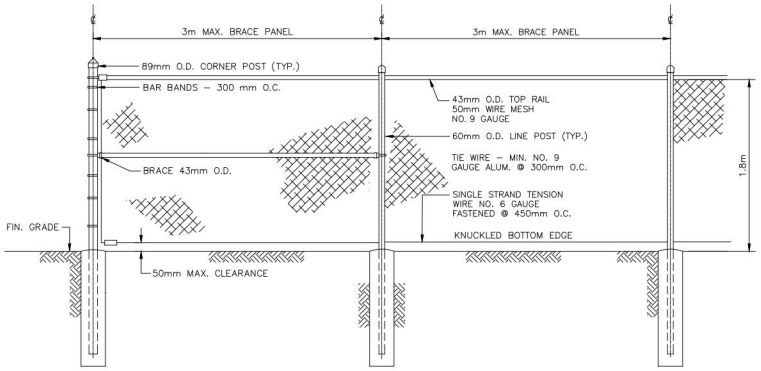

CHAIN LINK SECURITY FENCE
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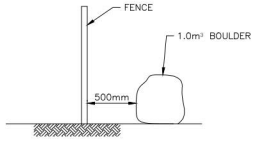

FENCE/LARGE ROCK DETAIL
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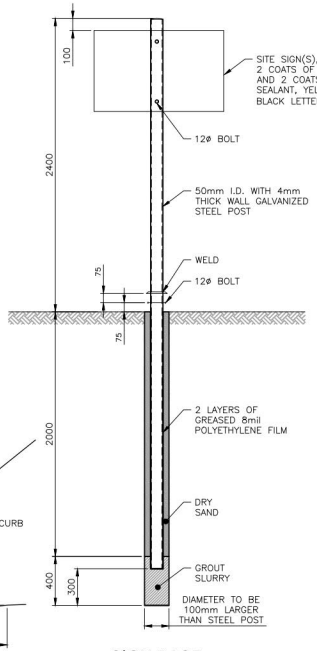

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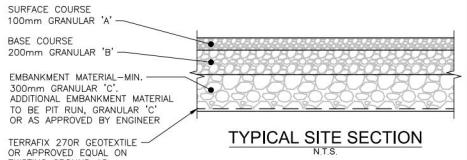

TYPICAL SITE SECTION
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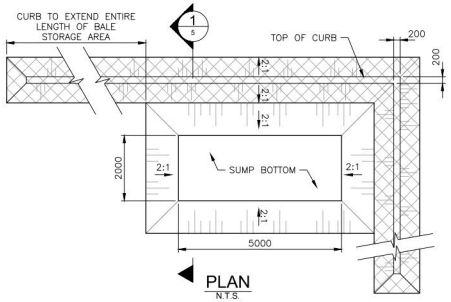
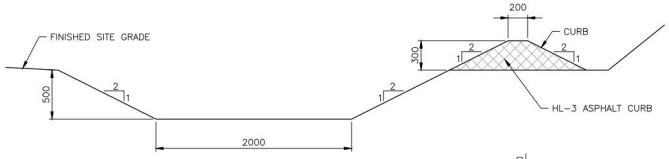


PLAN
N.T.S.



1 SECTION
5 N.T.S.

BALE STORAGE AREA SUMP DETAIL - SEE SITE PLAN DWG WTS-C02
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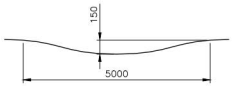

TYPICAL SWALE SECTION
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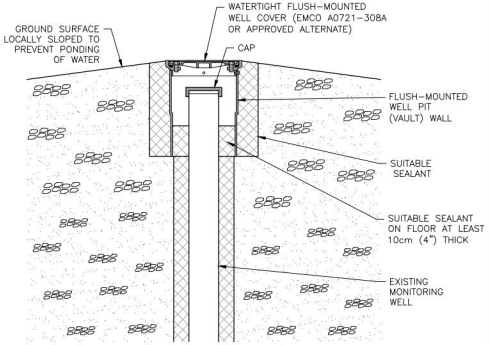

MONITOR WELL FLUSH MOUNT COVER DETAIL
N.T.S.

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No.	ISSUED FOR	DATE	BY
11	RECORD DRAWING	2025/03/30	C.S.
10	ISSUED FOR CONSTRUCTION	2022/11/04	K.B.
9	RELEASED FOR TENDER	2022/07/06	K.B.
8	ADDITIONAL REVIEW	2022/05/16	K.B.
7	TENDER	2022/04/14	K.B.
6	REVIEW	2021/09/24	K.B.
5	REVIEW	2021/01/11	K.B.
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3	90% REVIEW	2020/01/24	K.B.
2	50% REVIEW	2019/10/23	K.B.
1	30% REVIEW	2019/06/04	K.B.

DESIGN	C.R.S.
REVIEWED BY	S.D.K.
DRAWN	D.B.C./D.T.M.
CHECKED BY	K.B.
DATE	NOVEMBER 2022
SCALE	AS NOTED

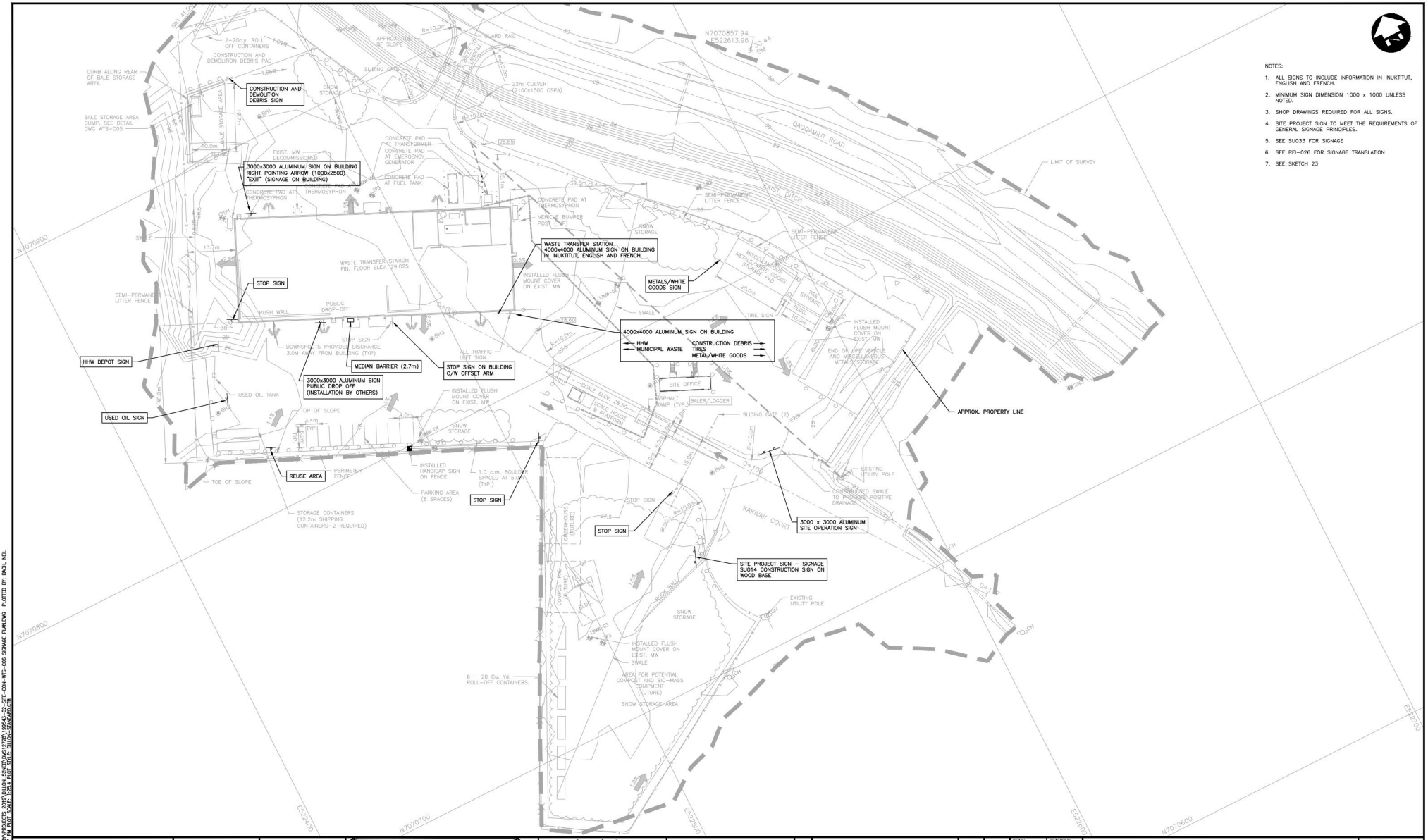
CITY OF IQALUIT
WASTE TRANSFER STATION

MISCELLANEOUS DETAILS

PROJECT NO. 19-9543

SHEET NO. **WTS-C05**

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\DILLON_&_PARTNERS\MB12726\195543-00-SITE-CON-WTS-C05 DETAILS.DWG PLOTTED BY: BACKL, NEIL
DATE: 2022-11-21 @ 4:07:24 PM LAYOUT: SCALE: (ARCH D) STYLE: DILLON-HANGER.CTB



NOTES:

1. ALL SIGNS TO INCLUDE INFORMATION IN INUKTITUT, ENGLISH AND FRENCH.
2. MINIMUM SIGN DIMENSION 1000 x 1000 UNLESS NOTED.
3. SHOP DRAWINGS REQUIRED FOR ALL SIGNS.
4. SITE PROJECT SIGN TO MEET THE REQUIREMENTS OF GENERAL SIGNAGE PRINCIPLES.
5. SEE SUO33 FOR SIGNAGE
6. SEE RFI-026 FOR SIGNAGE TRANSLATION
7. SEE SKETCH 23

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Originally Stamped By C. R. Shortall

THE ASSOCIATE OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF THE NORTHWEST TERRITORIES
PERMIT NUMBER P 010
DILLON CONSULTING LIMITED

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DESIGN: C.R.S. | REVIEWED BY: S.D.K.
DRAWN: D.B.C./D.T.M. | CHECKED BY: K.B.
DATE: NOVEMBER 2022
SCALE: 1:500

CITY OF IQALUIT
WASTE TRANSFER STATION

SITE SIGNAGE DETAILS

PROJECT NO. 19-9543

SHEET NO. **WTS-C06**

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\DILLON_&_OWER\DMS12726\19543-02-SITE-CON-WTS-C06 SIGNAGE PLAN.DWG PLOTTED BY: BACH, NEIL
CD DATE: 2022-11-24 @ 4:55:27 PM LAYOUT: SCALE: 1:250 & 1:500 SITE: DILLON-MANAGER

GENERAL NOTES:

1. CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS ON SITE PRIOR TO COMMENCING WITH CONSTRUCTION WORKS.
2. DO NOT SCALE FROM THE DRAWINGS.
3. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS, CIVIL DRAWINGS, ARCHITECTURAL DRAWINGS, MECHANICAL DRAWINGS, AND ELECTRICAL DRAWINGS.
4. ALL WORK SHALL CONFORM TO THE LATEST NATIONAL BUILDING CODE 2015 FIRST PRINTING, 11 ALL REFERENCES TO CODES, STANDARDS, SPECIFICATIONS, GUIDELINES, ETC. SHALL MEAN THE LATEST ADOPTED EDITION APPLICABLE.
5. DO NOT CONSTRUCT FROM THIS DRAWING UNLESS MARKED "ISSUED FOR CONSTRUCTION".
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE PREPARATION AS PER DRAWINGS
7. TEMPORARY SUPPORT AND BRACING FOR CONSTRUCTION LOADING AND CONDITIONS IS THE RESPONSIBILITY OF THE CONTRACTOR.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING AND SECURING ALL NECESSARY PERMITS.
9. THE CONTRACTOR SHALL BE PRESENT AT SITE REVIEW MEETINGS.
10. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCING WITH CONSTRUCTION WORK. ALTERATIONS OR REVISIONS MUST BE REPORTED AND APPROVED BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

DESIGN LOADS:

CLIMATIC DATA: CITY OF IQALUIT
IMPORTANCE FACTOR: NORMAL
WIND LOAD
REFERENCE HOURLY WIND PRESSURE (1/10) 0.45 kPa
REFERENCE HOURLY WIND PRESSURE (1/50) 0.58 kPa
SNOW LOAD (1/50)
S_s 2.9 kPa
S_r 0.2 kPa
SEISMIC DATA
$S_a(0.2)$ 0.087
$S_a(0.5)$ 0.065
$S_a(1.0)$ 0.043
$S_a(2.0)$ 0.023
$S_a(5.0)$ 0.0058
$S_a(10.0)$ 0.0025
PGA 0.051
PGV 0.052
SITE CLASSIFICATION: C
SLAB ON GRADE LOADING
LIVE LOADING 12 kPa
* POINT LOADS AS INDICATED ON DRAWINGS FOR HOUSEKEEPING PADS
MEZZANINE LOADING
DEAD LOAD 3 kPa
LIVE LOAD 4.8 kPa
PUSH WALL
930M WASTE HANDLER 5 cu m
COMPACTED WASTE DENSITY 1039 kg/cu m
DESIGN BASED ON WASTE STORAGE TO TOP OF CONCRETE PUSH WALL
PRE-ENGINEERED BUILDING LOADS:
THE PRELIMINARY PRE-ENGINEERED BUILDING LOADS USED IN DESIGN OF THE CONCRETE PIERS AND FLOOR SLAB HAVE BEEN PROVIDED IN AN APPENDIX TO THE SPECIFICATIONS FOR REFERENCE. SHOULD THESE REACTIONS INCREASE RE-ANALYSIS MAY BE REQUIRED

GEOTECHNICAL NOTES:

1. GEOTHERMAL ANALYSIS AND GEOTECHNICAL RECOMMENDATIONS WERE COMPLETED BY WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS AND A GEOTHERMAL REPORT HAS BEEN PREPARED, DATED MAY 14, 2019, ENTITLED "GEOTHERMAL MODELLING AND GEOTECHNICAL RECOMMENDATIONS TRANSFER STATION AND LANDFILL IN IQALUIT, NUNAVUT" PROJECT # CG14359.
2. SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DESIGNED AND STAMPED BY AN ENGINEER LICENSED TO PRACTICE IN NUNAVAUT.

EXCAVATION BACKFILL AND COMPACTION:

1. REFER TO WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS' GEOTHERMAL REPORT FOR RECOMMENDATIONS OF EXCAVATION, PROOF ROLLING AND BACKFILL MATERIALS AND MINIMUM SPECIFICATIONS.
2. A GEOTECHNICAL ENGINEER OR QUALIFIED PERSONNEL SHALL BE RETAINED BY AND PAID FOR BY THE GENERAL CONTRACTOR TO INSPECT AND CONFIRM COMPACTION AND MATERIALS PROPERTIES REQUIREMENTS HAVE BEEN MET.
3. ALL BACKFILL MATERIALS AND BACKFILL PLACEMENT SHALL BE REVIEWED BY QUALIFIED GEOTECHNICAL PERSONNEL.

SITE REVIEW AND SHOP DRAWING REVIEW:

1. NOTIFY THE ENGINEER 24 HOURS PRIOR TO PLACING CONCRETE FOR SITE REVIEW.
2. PREPARE AND SUBMIT ALL REQUIRED SHOP DRAWINGS FOR REVIEW A MINIMUM OF 7 DAYS PRIOR TO FABRICATION.
3. THE REVIEW IS ONLY FOR THE WORK SHOWN ON THE STRUCTURAL DRAWINGS AND IS TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE DRAWINGS.
4. THE REVIEW DOES NOT RELIEVE THE CONTRACTOR RESPONSIBILITY TO PERFORM THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

REINFORCING STEEL:

1. ALL REINFORCING SHALL BE BLACK STEEL CONFORMING TO CSA G30.18, GRADE 400W.
2. ALL REBAR SHALL BE STORED ON WOOD BLOCKING AT THE SITE.
3. REINFORCEMENT SHALL BE FREE OF CLAY, DIRT AND FORM OIL OR OTHER DELETERIOUS MATERIAL WHICH WOULD REDUCE THE BOND TO CONCRETE.
4. CONCRETE COVER SHALL CONFORM TO THE FOLLOWING LIST:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	75 mm
MEZZANINE DECK TOPPING, HOUSEKEEPING PADS, EXTERIOR PADS (U.N.O.) AND APRONS	50 mm
CONCRETE WALLS, PIERS, SLAB WITH TOPPING	60 mm
SLAB WITHOUT TOPPING	85 mm

5. BAR LAP SHALL BE AS FOLLOWS:

BAR SIZE	30MPa CONC.	35MPa. CONC.
10M	550mm	500mm
15M	750mm	700mm
20M	900mm	850mm
25M	1450mm	1350mm
30M	1700mm	1550mm
35M	2000mm	1850mm
UNLESS NOTED OTHERWISE ON DRAWINGS		

6. CLEAR SPACING SHALL BE GREATER THAN 2 TIMES BAR DIAMETER.
7. DO NOT FIELD BEND REINFORCEMENT EXCEPT WHERE INDICATED AND WHERE AUTHORIZED BY THE ENGINEER.
8. REPLACE BARS WHICH DEVELOP CRACKS OR SPLITS.
9. PLACE REINFORCING STEEL IN ACCORDANCE WITH CSA A23.1/A23.2.

CONCRETE FORMWORK:

1. FORM WORK TO CONFORM TO CSA A23.1/A23.2.
2. FORM STRIPPING AGENT – COLORLESS MINERAL OIL, NON-TOXIC, BIODEGRADABLE, FREE OF KEROSENE.
3. PROVIDE BRACING TO ENSURE STABILITY OF FORMWORK.
4. DO NOT PLACE SHORES AND MUD SILLS ON FROZEN GROUND.
5. FORM WORK SHALL BE CLEANED OF DEBRIS BEFORE PLACING CONCRETE.
6. FORMWORK TO FOLLOW THE MAXIMUM TOLERANCES:

HORIZONTAL AND VERTICAL LINES	10 mm in 20 m

7. LEAVE FORM WORK IN PLACE FOR THE FOLLOWING MINIMUM OF 7 DAYS FOR GRADE BEAMS AND 5 DAYS FOR SLABS OR UNTIL THE CONCRETE HAS REACHED 70% OF ITS DESIGN STRENGTH.
8. DO NOT WEDGE PRY BARS OR HAMMERS AGAINST CONCRETE SURFACES.

MASONRY:

1. ALL MASONRY WORK SHALL BE PERFORMED IN ACCORDANCE WITH CSA A371.
2. CONCRETE BLOCK SHALL CONFORM TO CAN3-A165. STANDARD HOLLOW MASONRY UNIT H/15/A/M.
3. MORTAR AND GROUT: TYPE S 20 MPa TO CSA A179.
4. MASONRY CONNECTORS TO CSA A370 AND CSA A304.
5. BAR REINFORCEMENT TO CSA G30.18 GRADE 400.
6. MINIMUM HORIZONTAL JOINT REINFORCEMENT: 3.8 mm TRUSS TYPE WIRE REINFORCEMENT TO CSA A371 AT EVERY 400 mm.
7. ALL MASONRY WALLS TO BE SECURELY BRACED UNTIL STRUCTURE IS CLOSED IN.
8. PROVIDE 15M VERTICAL REINFORCEMENT FULL HEIGHT WITH MATCHING DOWELS AND COREFILL AT EACH WALL CORNER AND ON EACH SIDE OF DOOR OPENINGS.

EXTERIOR EQUIPMENT PADS:

1. PADS DESIGNED FOR EQUIPMENT LOADS SPECIFIED ON DRAWINGS, WHERE NOTED. NOTIFY ENGINEER IMMEDIATELY OF ANY CHANGES TO EQUIPMENT DIMENSIONS OR WEIGHT.
2. GENERATOR AND TRANSFORMER EQUIPMENT LOADS ASSUMED FOR PRELIMINARY DESIGN OF PADS. SUBMIT EQUIPMENT SPECIFICATIONS TO ENGINEER PRIOR TO CONSTRUCTION TO VERIFY PAD DIMENSIONS AND REINFORCEMENT.
3. CONTRACTOR TO PROVIDE ANCHOR BOLTS/CONNECTIONS TO CONCRETE SLABS AS REQUIRED BY THE EQUIPMENT MANUFACTURER.

CAST-IN-PLACE CONCRETE:

1. CONCRETE MATERIAL, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA A23.1/A23.2. LATEST ADOPTED EDITION.
2. CONCRETE FALSE WORK/FORMWORKS SHALL CONFORM TO CSA S269.1. LATEST EDITION.
3. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE.
4. ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE NOT ALLOWED.
5. CONCRETE STRENGTH AND MIX SPECIFICATIONS ARE AS FOLLOWED, UNLESS NOTED OTHERWISE:

EXP. CLASS	SUPPLY AND USE	MAX. W/C	STRENGTH	CEMENT TYPE	MAX. AGG. SIZE	AIR ENTRAINMENT	MAX. FLY ASH CONTENT
F-1	APRONS/ EXTERIOR PADS	0.40	35 MPa @ 28 DAYS	GU	20mm	5% -8%	25%
A-3	PUSH WALLS/PIERS /BUILDING SLAB/ STORAGE WALLS	0.40	35 MPa @ 28 DAYS	GU	20mm	4% -7%	25%
N	DECK TOPPING/ HOUSEKEEPING PADS	0.40	30 MPa @ 28 DAYS	GU	20mm	N/A	25%
TBD	RADIATOR PADS	TO BE DESIGNED BY GENERAL CONTRACTOR, MINIMUM 30MPa. SEE SPECIFICATIONS FOR FURTHER DETAILS.					

6. FINISH CONCRETE IN ACCORDANCE WITH CSA A23.1/A23.2.
7. REJECT ALL CONCRETE IF BATCHING TIME AND PLACING TIME EXCEEDS TWO HOURS.
8. CONTRACTOR SHALL PREPARE AND SUBMIT CONCRETE MIX DESIGN SHOP DRAWINGS ALONG WITH CYLINDER TEST RESULTS FOR EACH CLASS OF CONCRETE, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NUNAVUT FOR REVIEW 7 DAYS PRIOR TO COMMENCING RELATED WORK.
9. PROVIDE CERTIFICATION DEMONSTRATING PLANT, EQUIPMENT, AND MATERIAL TO BE USED IN CONCRETE COMPLY WITH REQUIREMENTS OF CSA A23.1/A23.2.

COLD WEATHER REQUIREMENTS:

10. WHEN THE AMBIENT TEMPERATURE IS AT OR BELOW 5°C OR WHEN THERE IS A PROBABILITY OF THE AMBIENT TEMPERATURE DROPPING TO OR BELOW 5°C DURING CONCRETE PLACEMENT, THE TEMPERATURE OF CONCRETE DURING PLACING SHALL BE BETWEEN 15°C AND 25°C.
11. PLACED CONCRETE SHALL BE PROTECTED AND MAINTAINED AT A TEMPERATURE OF AT LEAST 10°C FOR NOT LESS THAN 3 DAYS OR NOT LESS THAN 20°C FOR 2 DAYS AND ALL CONCRETE TO BE MAINTAINED ABOVE FREEZING FOR A MINIMUM OF 7 DAYS.
12. CONCRETE SHALL BE PROTECTED FROM ALTERNATE FREEZING AND THAWING FOR A MINIMUM OF 14 DAYS.
13. PROTECTED AND HEATED CONCRETE TO BE BROUGHT GRADUALLY TO AMBIENT AIR TEMPERATURE AT A DROP NOT MORE THAN 15°C PER 24 HOUR PERIOD.
14. HEATING ENCLOSURE SHALL BE CLEAR OF CONCRETE AND FORMING SURFACES FOR AIR CIRCULATION.
15. FROZEN CONCRETE WILL BE REJECTED.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL TO CONFORM TO CSA G40.20/G40.21 GRADE 350W FOR ROLLED STEEL AND GRADE 300W FOR STEEL PLATE AND HOLLOW STRUCTURAL SECTIONS TO CAN/CSA G40.21, GRADE 350W, CLASS C.
2. ALL STRUCTURAL STEEL TO BE GALVANIZED IN ACCORDANCE WITH CAN/CSA G164 TO NET RETENTION OF 610 g/m². WHERE NOTED.
3. ALL BEAM TO COLUMN CONNECTIONS SHALL BE FOR FULL SHEAR RESISTANCE Vr, OF THE BEAM OR THE FACTORED SHEAR RESULTING FROM THE GREATEST OF UDL OR POINT LOADS AS PER CISC HANDBOOK BEAM LOAD TABLES, LATEST EDITION, WHICH EVER IS MAXIMUM. USE A MINIMUM 2-19mmø BOLTS IN EACH BOLTED CONNECTION. USE FRICTION CONNECTIONS, SINGLE SIDED CONNECTIONS ARE NOT PERMITTED.
4. WELDING TO CONFORM TO CSA W59.
5. MINIMUM WELD THICKNESS OF 6 mm.
6. GROUT UNDER COLUMNS SHALL BE NON-SHRINK AND NON-STAIN WITH A MINIMUM COMPRESSIVE STRENGTH OF 50 MPa AT 28 DAYS.
7. SUBMIT SHOP DRAWINGS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NUNAVUT, FOR REVIEW PRIOR TO FABRICATION.
8. NO HOLES TO BE CUT IN STRUCTURAL STEEL, EXCEPT IN LOCATIONS SHOWN ON SHOP DRAWINGS, WITHOUT PRIOR APPROVAL OF ENGINEER.
9. ALL ANCHOR BOLTS, NUTS AND WASHERS TO CONFORM TO CAN/CSA G40.21, GRADE 300W. AND SHALL BE HOT DIPPED GALVANIZED.

STRUCTURAL STEEL DECK:

1. FLOOR DECK SHALL BE P3623 20ga. COMPOSITE DECK, 100mm THICK CONCRETE ON DECK WITH 10M @ 300mm C/C E.W. PROVIDE METAL CLOSURE ANGLE ON FLOOR DECK AROUND ALL OPENINGS.
2. PROVIDE L65X65x6 AROUND COLUMNS FOR DECK SUPPORT IF REQUIRED.
3. DEFLECTION DUE TO LIVE LOADING OF FLOOR DECK SHALL NOT EXCEED L/360.
4. EXCEPT WHERE RESTRICTED BY FRAMING OR AS NOTED, DECK IS TO BE CONTINUOUS OVER AT LEAST 3 SPANS.
5. ERECTION COMPANIES SHALL BE CERTIFIED BY CANADIAN WELDING BUREAU (CWB) UNDER CSA W47.1 CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STRUCTURES LATEST EDITION AND WELDING OPERATORS SHALL BE QUALIFIED BY CWB FOR DECK WELDERS.
6. NON-SPANNING EDGES OF DECK SUPPORTED BY CONTINUOUS CLOSURES OF SAME THICKNESS AS DECK.
7. STEEL DECK SHALL BE DESIGNED & INSTALLED BY DECK SUPPLIER IN ACCORDANCE WITH THE LATEST CODES AND STANDARDS FOR THE LOADS SPECIFIED UNDER "DESIGN LOADS".
8. DECK COATING AS PER SPECIFICATIONS.
9. WELD DECK TO SUPPORTING STEEL WITH 19 mm DIA. FUSION WELDS. FASTEN SIDE LAPS USING BUTTON PUNCHING AT 600 mm O/C MAX. SPACING. WELD EACH SIDE LAPS AT SUPPORTS, MAX. SPACING 150 mm O/C AROUND PERIMETER AND 300 mm O/C AT INTERIOR SUPPORTS.
10. CLEAN AND PAINT WELDS WITH A ONE COMPONENT ZINC RICH PAINT SUCH AS ZINGA.
11. SUBMIT SHOP DRAWINGS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NUNAVUT, FOR REVIEW PRIOR TO FABRICATION.

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REGISTERED PROFESSIONAL ENGINEER #1 L.T. ANTLE LICENSEE March 21, 2022 NT/NU

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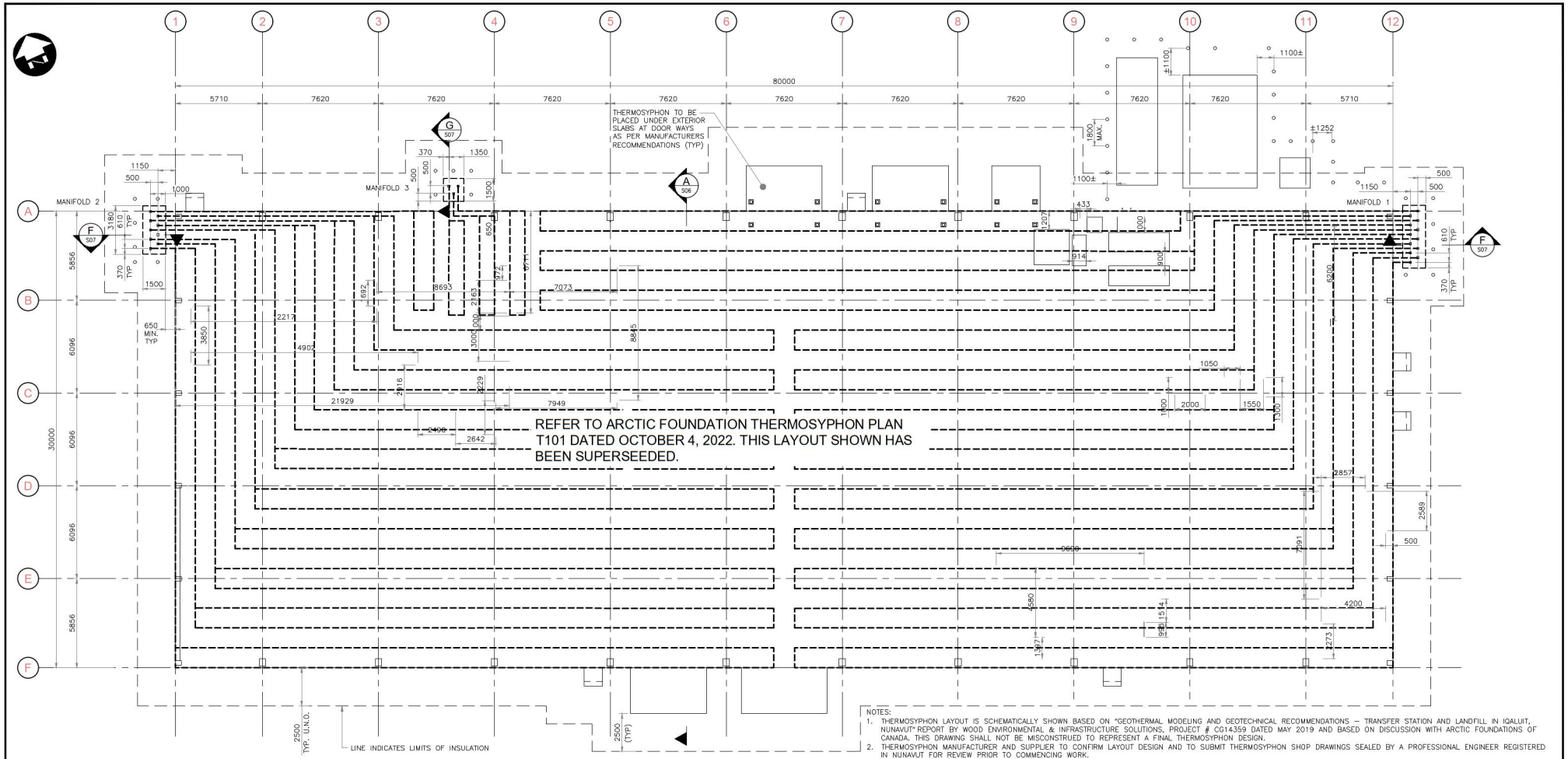
DESIGN: LA	REVIEWED BY: GM
DRAWN: DJB/BS	CHECKED BY: CPW
DATE: NOVEMBER 2022	
SCALE:	

CITY OF IQALUIT
WASTE TRANSFER STATION

STRUCTURAL NOTES

PROJECT NO. 19-9543

SHEET NO. **WTS-S01**



NOTE

EXCAVATION SHOWN ON DRAWINGS S06, S07, S08 HAVE BEEN MODIFIED DURING TENDER PERIODS. REFER TO SHOP DRAWINGS "CITY OF IQALUIT WASTE TRANSFER STATION, DRAWINGS T100 TO T105 FROM THERMOSYPHON MANUFACTURER, (ARCTIC FOUNDATIONS).

THERMOSYPHON PLAN

1:125

NOTES:

1. THERMOSYPHON LAYOUT IS SCHEMATICALLY SHOWN BASED ON "GEOTHERMAL MODELING AND GEOTECHNICAL RECOMMENDATIONS – TRANSFER STATION AND LANDFILL IN IQALUIT, NUNAVUT" REPORT BY WOOD ENVIRONMENTAL & INFRASTRUCTURE SOLUTIONS, PROJECT # CG14359 DATED MAY 2019 AND BASED ON DISCUSSION WITH ARCTIC FOUNDATIONS OF CANADA. THIS DRAWING SHALL NOT BE MISCONSTRUED TO REPRESENT A FINAL THERMOSYPHON DESIGN.
2. THERMOSYPHON MANUFACTURER AND SUPPLIER TO CONFIRM LAYOUT DESIGN AND TO SUBMIT THERMOSYPHON SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NUNAVUT FOR REVIEW PRIOR TO COMMENCING WORK.
3. THERMOSYPHON SHALL BE DESIGNED FOR 70 YEARS UNDER MODERATELY REDUCED (RCP4.5) GREENHOUSE GAS EMISSION SCENARIO AS PER CSA PLUS4011:19.
4. ALL EVAPORATOR PIPES SHALL BE 25mm A106B STEEL MIN.. ALL RADIATORS SHALL BE 39.5m² CAPACITY MIN. UNDER SLAB AND 19.5m² MIN. CAPACITY UNDER SUMP PIT, ALUMINIZED AND PAINTED WHITE.
5. PROVIDE SELF SUPPORTING RADIATOR USING CANTRUSS BRACING.
6. ALL EVAPORATOR PIPING TO BE FLAT, NO VERTICAL OFFSET IS ALLOWED.
7. DESIGN OF RADIATOR SUPPORT BY CONTRACTOR. MUST BE DESIGNED TO WITHSTAND ALL LOADINGS INCLUDING DEAD, LIVE AND ENVIRONMENTAL (WIND, SNOW, SEISMIC, ETC.) INCURRED DURING INSTALLATION AND OPERATION AS PER RELEVANT CODE REQUIREMENTS.
8. ALL RADIATOR PIPING IS TO BE ESSENTIALLY PLUMB.
9. CONTRACTOR TO PROVIDE HYDROCARBON RESISTANT GEOMEMBRANE.
10. THERMOSYPHON SUPPLIER TO PROVIDE HORIZONTAL TAC. SENSORS TO ALL THERMOSYPHON LOOPS AND DATA LOGGER MOUNTS ON EACH MANIFOLD.
11. THERMOSYPHON SUPPLIER TO PROVIDE VERTICAL TAC. SENSORS FROM EVAPORATOR LEVEL TO 7 m BELOW CONCRETE PAD.
12. THERMOSYPHON SUPPLIER TO MONITOR THE SYSTEM 5 YRS AFTER INSTALLATION.
13. THERMOSYPHON SHALL HAVE A 4 YEAR WARRANTY INCLUSIVE AND ADDITIONAL 4 YEARS AGAINST MANUFACTURER'S DEFECTS ON ALL PARTS.
14. GRANULAR FILL SHALL BE NON–FROST SUSCEPTIBLE AND HAVE GRADATION AND COMPACTION AS INDICATED IN THE GEOTHERMAL MODELING AND GEOTECHNICAL RECOMMENDATION REPORT ABOVE. DESIGN OF GRANULAR FILL AS PER GEOTECHNICAL REPORT AND CONFIRMED WITH GEOTECHNICAL ENGINEER ON SITE.
15. GRANULAR PAD SHALL HAVE AN UNFACTORED ULS BEARING CAPACITY AND SLS BEARING CAPACITY AS PER THE GEOTHERMAL MODELING AND GEOTECHNICAL RECOMMENDATION REPORT. IF THESE VALUES CANNOT BE OBTAINED, INFORM THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

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REGISTERED PROFESSIONAL ENGINEER L.T. ANTLE LICENSEE March 21, 2022 NT/NU

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DESIGN: LA | REVIEWED BY: GM
DRAWN: DJB/BS | CHECKED BY: CPW
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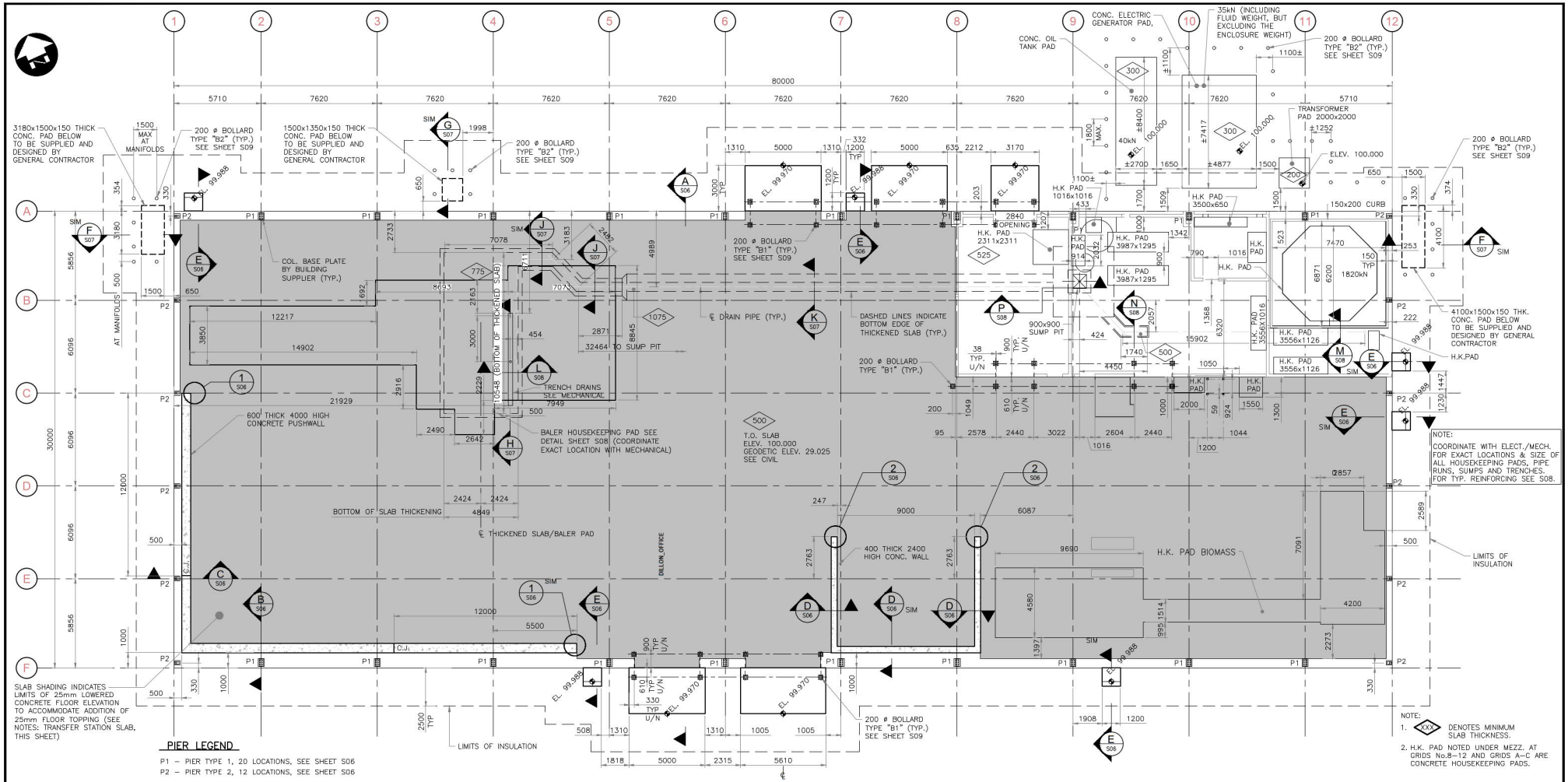
SCALE:

CITY OF IQALUIT
WASTE TRANSFER STATION

THERMOSYPHON PLAN

PROJECT NO. 19-9543

SHEET NO. WTS-S02



PIER LEGEND

P1 – PIER TYPE 1, 20 LOCATIONS, SEE SHEET S06
P2 – PIER TYPE 2, 12 LOCATIONS, SEE SHEET S06

SLAB PLAN

1:125

NOTES:

TRANSFER STATION SLAB

1. CONCRETE SLAB THICKNESS SHOWN ON DRAWING INCLUDES 25 mm THICK OF SIKA® EMERICRETE® OR LM™ EMERYTOP 400™ TOPPING.
2. TOPPING TO BE PLACED AS A SEPARATE PLACEMENT.
3. CONCRETE SURFACE RECEIVING TOPPING MUST BE MECHANICALLY ROUGHENED TO A MINIMUM 3 mm PROFILE ICRI–CSP 6 FOR SIKA® EMERICRETE® OR 6 mm PROFILE ICRI–CSP 8–10 FOR LM™ EMERYTOP 400™.
4. SURFACE MUST BE CLEAN, SOUND AND FREE OF ALL CONTAMINANTS.
5. LOCALLY DISH FLOOR TOPPING –25mm TOWARDS DRAINS.
6. WET CONCRETE SURFACE TO A SATURATED SURFACE DRY (SSD) CONDITION WITH NO STANDING WATER
7. APPLY BONDING AGENT SIKATOP® ARMATEC–110 EPOCEM® OR LM™ EMERYTOP 400™
8. INSTALLATION OF BONDING AGENT AND TOPPING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.
9. LEAVE CONCRETE LIP, IF REQUIRED, AROUND TRENCHES, SUMPS AND AT MAN DOOR OPENINGS AS PER TOPPING MANUFACTURE'S RECOMMENDATIONS. LIPS SHOULD BE AVOIDED IF POSSIBLE IN AREAS WHERE HEAVY EQUIPMENT WILL BE OPERATING. COMMUNICATE INTENDED DETAILS TO ENGINEER PRIOR TO START OF CONSTRUCTION.

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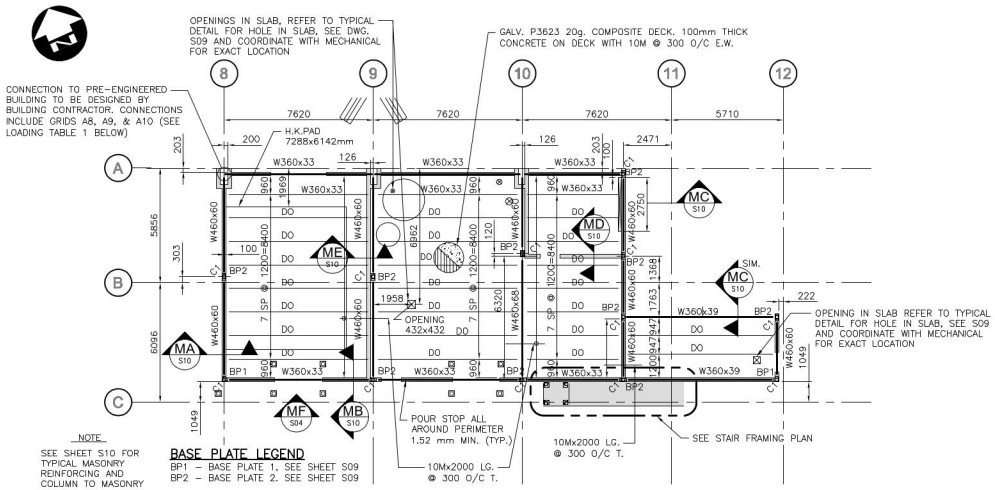
CITY OF IQALUIT
WASTE TRANSFER STATION

SLAB PLAN

PROJECT NO. 19-9543

SHEET NO. **WTS-S03**



NOTE
SEE SHEET S10 FOR TYPICAL MASONRY REINFORCING AND COLUMN TO MASONRY CONNECTION DETAILS.

BASE PLATE LEGEND
BP1 – BASE PLATE 1. SEE SHEET S09
BP2 – BASE PLATE 2. SEE SHEET S09

PLAN - MEZZ. FRAMING
1:125

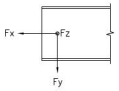
COLUMN SCHEDULE	
TYPE	SIZE
C1	HSS 152x152x8.0

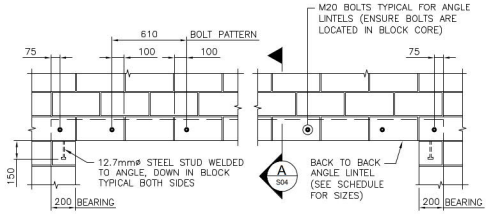
NOTE: FOR BASE PLATES (BP) SEE SHEET S09

LOADING TABLE 1				
LOADING		A8	A9	A10
DEAD	Fy (kN)	45	85	70
	Fz (kN)	1	3	1
LIVE	Fy (kN)	60	120	100
	Fz (kN)	1	4	1

NOTES:
1. ALL LOADINGS ARE UNFACTORED.

LOADING DIAGRAM

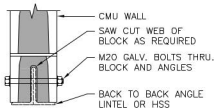




ELEVATION - TYPICAL LINTEL IN CMU WALL
MF S04 1:20

NOTES:
1. ALL STEEL STUDS WELDED TO ANGLE AND HSS TO BE 12.7mm DIAMETER AND SHALL BE GROUTED INTO BLOCK CORE AT BEARING ENDS.
2. LINTEL BEAMS SHALL SPAN OPENINGS. GROUTED BLOCK AT BOTH ENDS OF SUPPORTED LINTELS.
3. NUMBER OF LINTEL BEAMS REQUIRED SHALL BE CONFIRMED AND COORDINATED WITH ARCHITECTURAL FOR EXACT WIDTHS AND LOCATIONS.

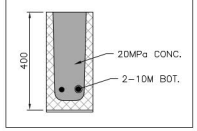
STEEL LINTEL SCHEDULE	
CLEAR SPAN	WALL THICKNESS
	190
1500 TO 2600	HSS 178x178x6.4

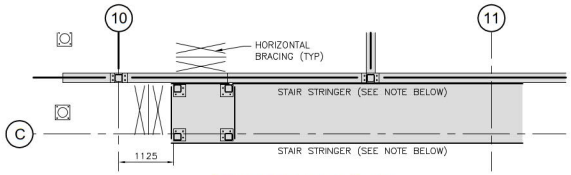


NOTE: ALL LINTELS TO BE GALVANIZED.

SECTION - TYPICAL LINTEL
A S04 1:10

OPENING < 1500mm





STAIR FRAMING PLAN
1:50

NOTE:
SEE ARCH. DWG FOR ELEVATION AND SECTIONS.
STAIRS AND CONNECTIONS TO BE DESIGNED AND SUPPLIED BY MISCELLANEOUS METALS.

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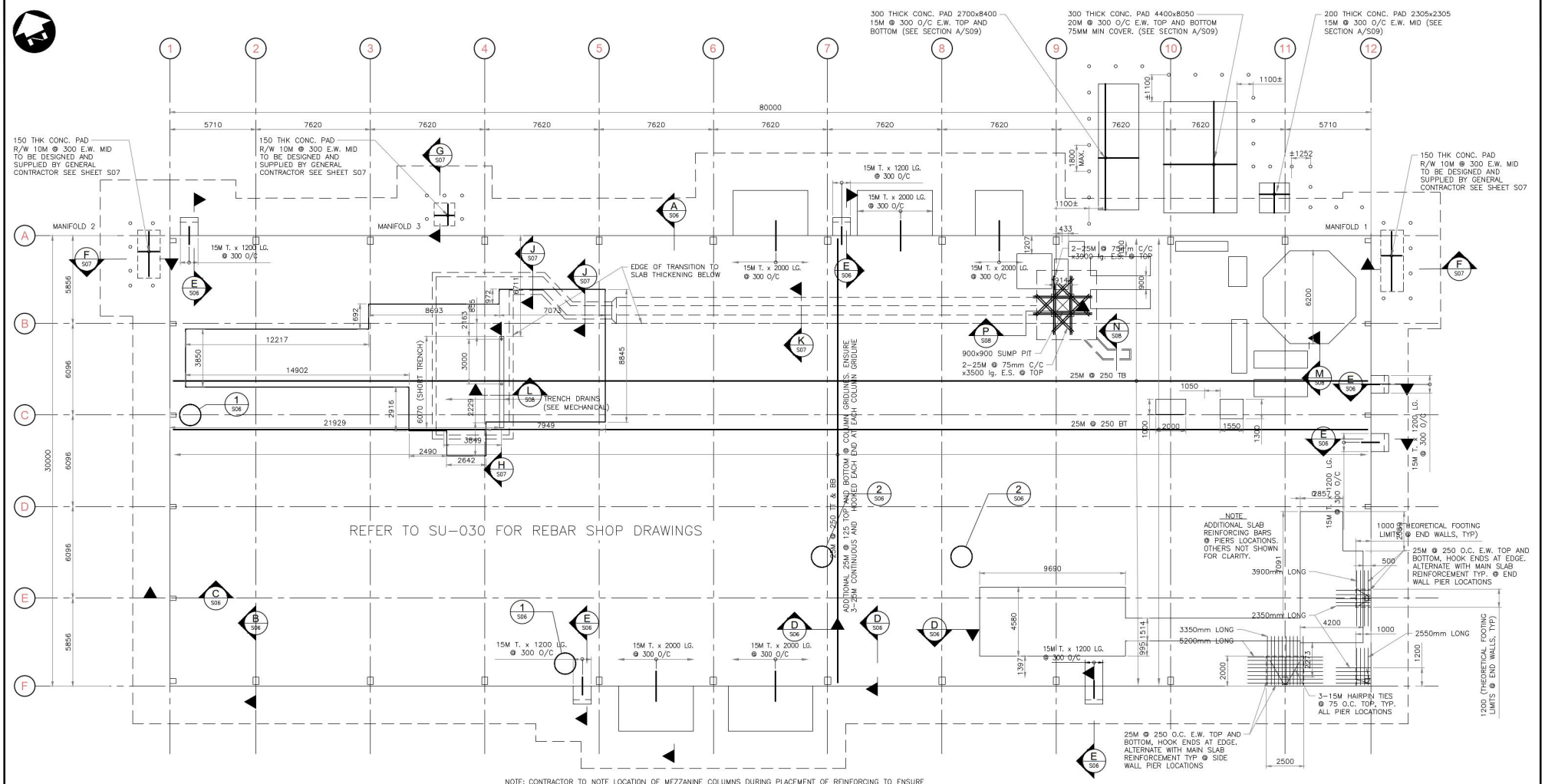
SCALE	

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

MEZZANINE PLAN

SHEET NO. **WTS-S04**



NOTE: CONTRACTOR TO NOTE LOCATION OF MEZZANINE COLUMNS DURING PLACEMENT OF REINFORCING TO ENSURE DRILLED ANCHOR BOLTS DO NOT CONFLICT WITH REINFORCEMENT. IF REQUIRED, ADD ADDITIONAL BARS AT CENTERLINE OF MEZZANINE COLUMN GRIDLINES IN BOTH DIRECTIONS AND EXTEND BARS PAST MEZZANINE FOOTPRINT BY A MINIMUM OF ONE BAR LAP DISTANCE.

SLAB REINFORCING PLAN

1:125

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CITY OF IQALUIT
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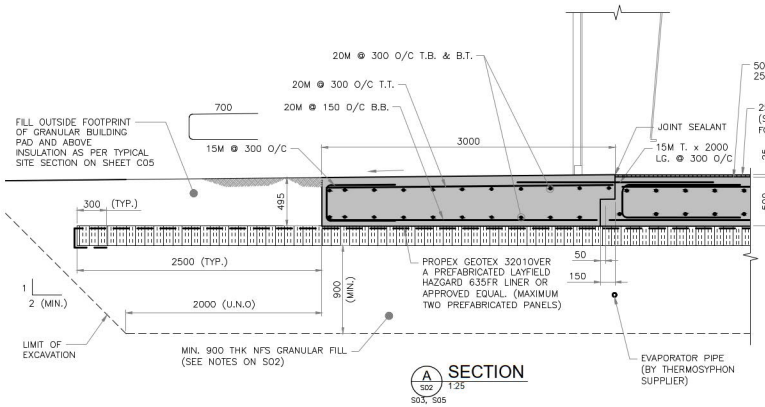
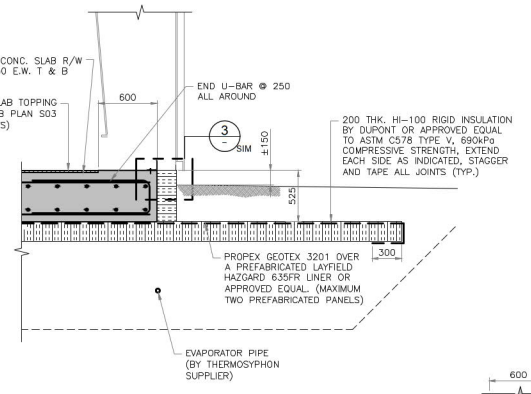
SLAB REINFORCING PLAN

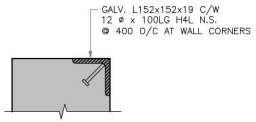
PROJECT NO. 19-9543

SHEET NO. **WTS-S05**

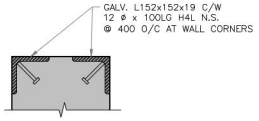


A SECTION
S02 1:25
S03, S05

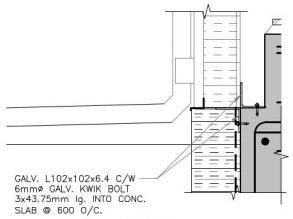




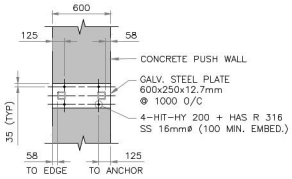
1 DETAIL
S03 1:10



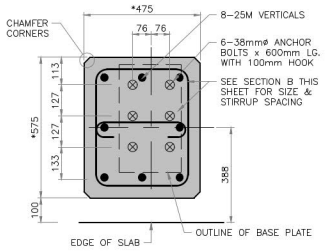
2 DETAIL
S03 1:10



3 DETAIL
1:10

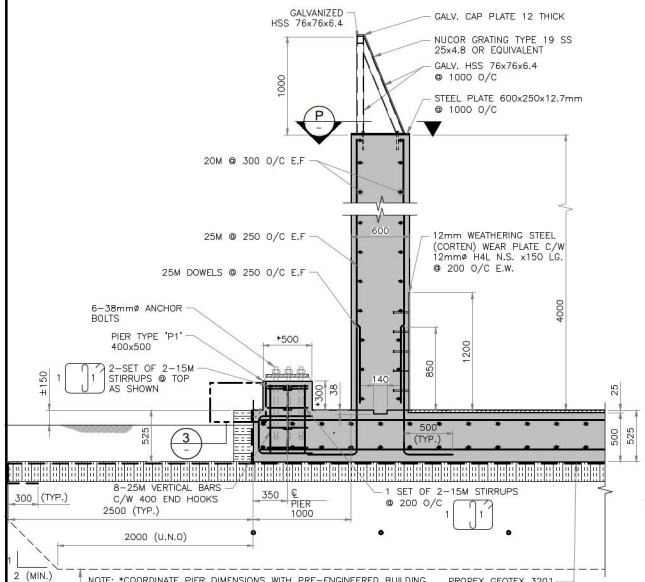


P SECTION
1:25



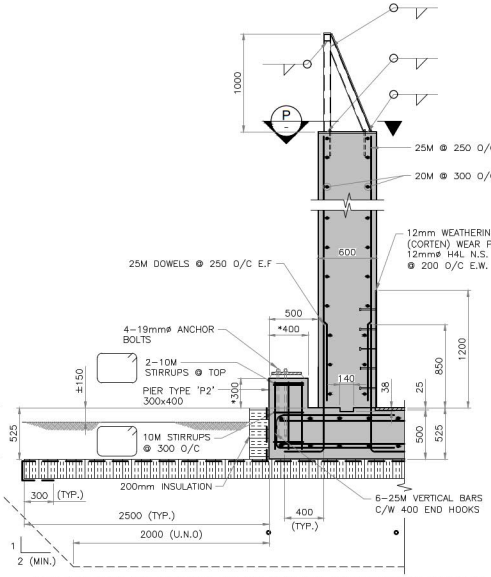
NOTE: *COORDINATE PIER DIMENSIONS WITH PRE-ENGINEERED BUILDING SUPPLIER AND NOTIFY ENGINEER OF ANY CHANGES PRIOR TO CONSTRUCTION. 20 LOCATIONS, SEE PLAN ON SHEET S03.

PLAN - TYPE 'P1' PIER (TYP.)
1:10



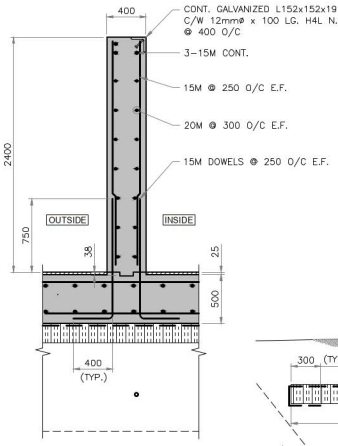
NOTE: *COORDINATE PIER DIMENSIONS WITH PRE-ENGINEERED BUILDING SUPPLIER AND NOTIFY ENGINEER OF ANY CHANGES PRIOR TO CONSTRUCTION. PIER SHALL BE POURED MONOLITHICALLY WITH SLAB. 38mm NON-SHRINK GROUT U/S OF BASE PLATE (TYP.)

B SECTION
S03 1:25
S05



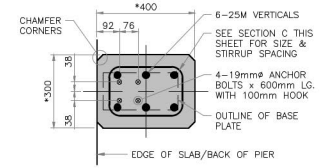
NOTE: *COORDINATE PIER DIMENSIONS WITH PRE-ENGINEERED BUILDING SUPPLIER AND NOTIFY ENGINEER OF ANY CHANGES PRIOR TO CONSTRUCTION. PIER SHALL BE POURED TO THAT SHOWN ABOVE WITH THE EXCEPTION OF THE OUTSIDE OF WALL BETWEEN WALL AND GRID LINE F, SLAB SHALL BE POURED TO A HEIGHT OF 525mm, NO TOPPING REQUIRED.

C SECTION
S03 1:25
S05



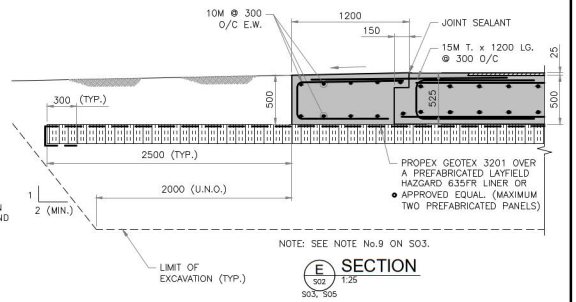
NOTE: SECTION D "SIM" ON SHEET S03 IS TYPICAL TO THAT SHOWN ABOVE WITH THE EXCEPTION OF THE OUTSIDE OF WALL BETWEEN WALL AND GRID LINE F, SLAB SHALL BE POURED TO A HEIGHT OF 525mm, NO TOPPING REQUIRED.

D SECTION
S03 1:25
S05



NOTE: *COORDINATE PIER DIMENSIONS WITH PRE-ENGINEERED BUILDING SUPPLIER AND NOTIFY ENGINEER OF ANY CHANGES PRIOR TO CONSTRUCTION. 12 LOCATIONS, SEE PLAN ON SHEET S03.

PLAN - TYPE 'P2' PIER (TYP.)
1:10



NOTE: SEE NOTE No.9 ON S03.

E SECTION
S02 1:25
S03, S05

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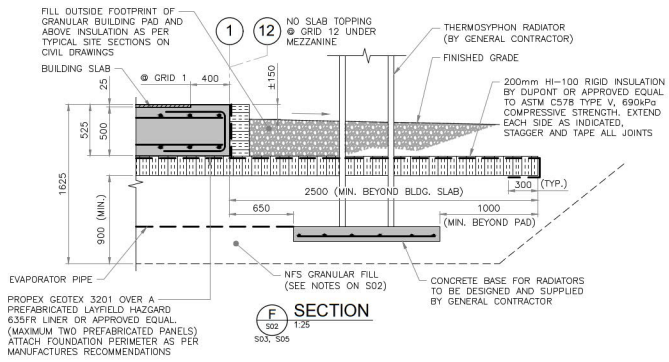
CITY OF IQALUIT
WASTE TRANSFER STATION

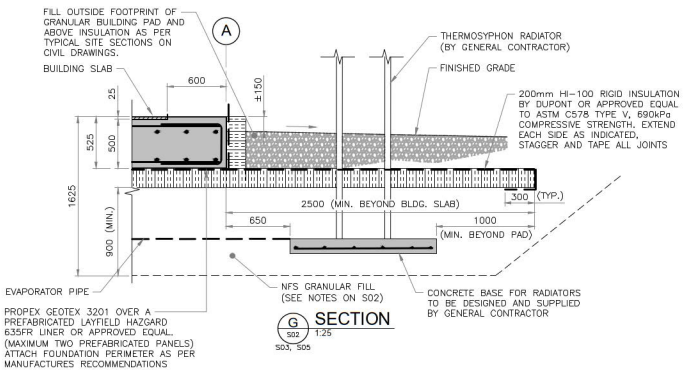
SLAB SECTIONS & DETAILS 1

PROJECT NO. 19-9543

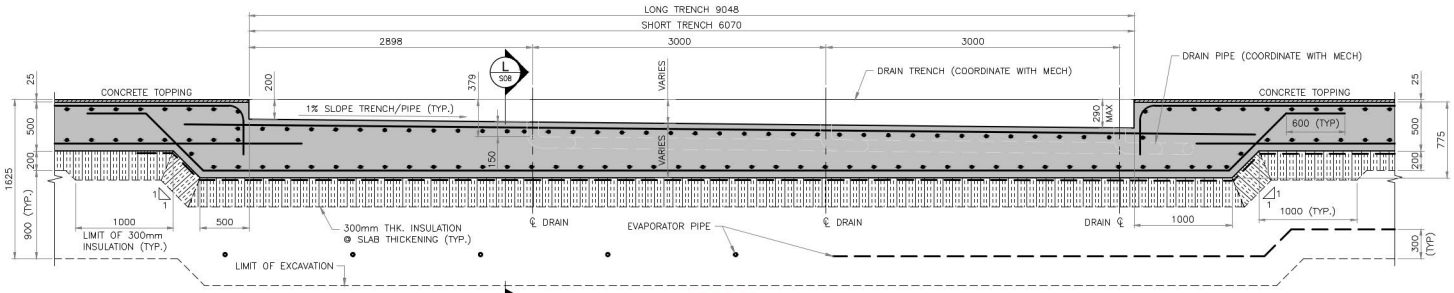
SHEET NO. **WTS-S06**



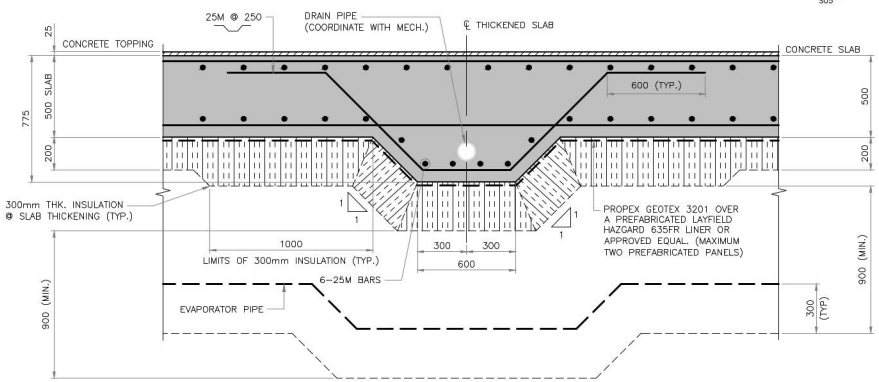
F S02 1:25 SECTION
S03, S05



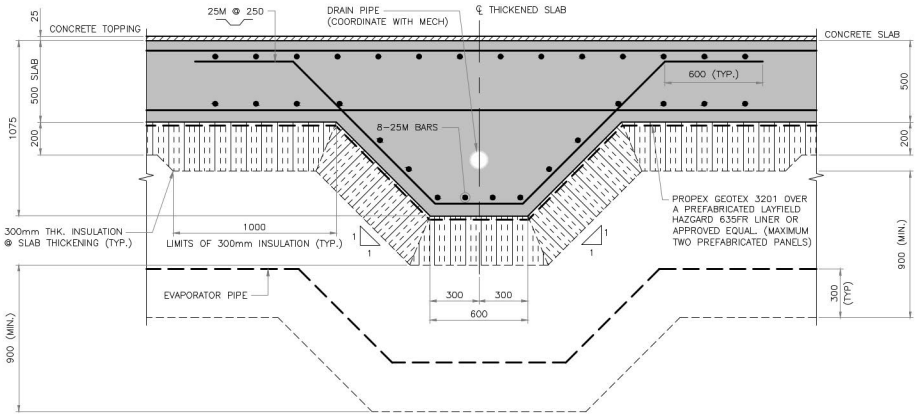
G S02 1:25 SECTION
S03, S05



H S03 1:25 SECTION
S05



J S03 1:15 SECTION
S05



K S03 1:15 SECTION
S05

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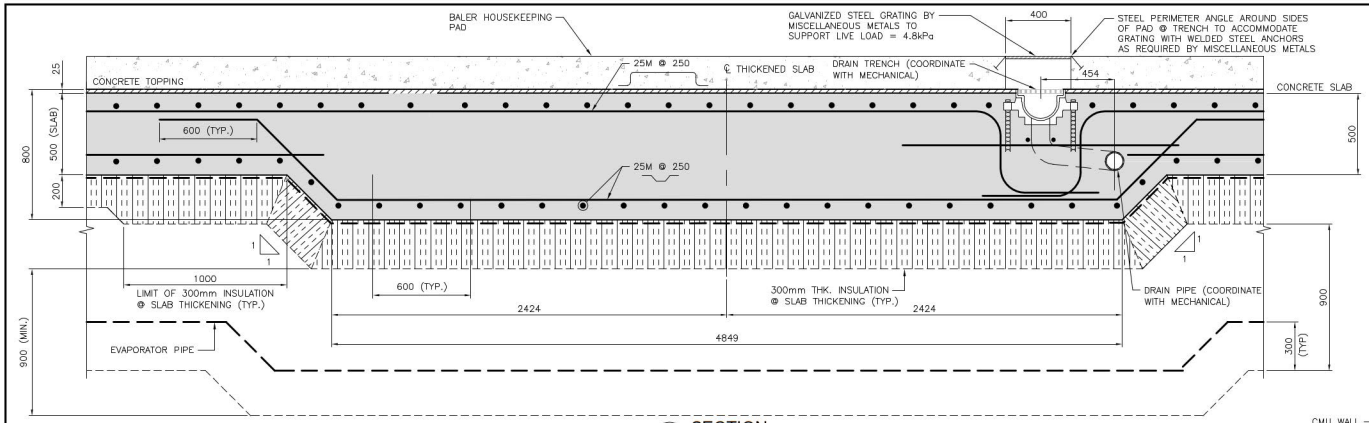
CITY OF IQALUIT
WASTE TRANSFER STATION

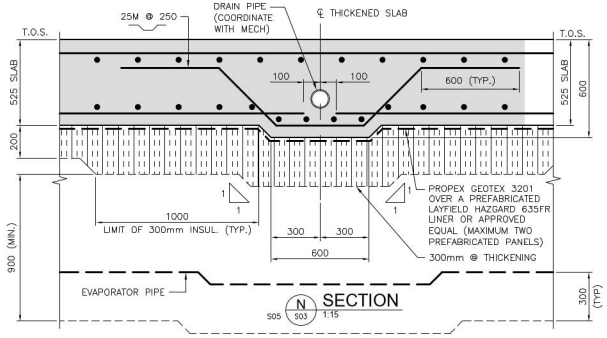
PROJECT NO. 19-9543

SLAB SECTIONS & DETAILS 2

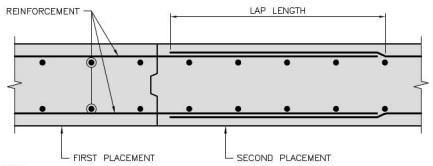
SHEET NO. **WTS-S07**



L S05 S03 1:15 SECTION



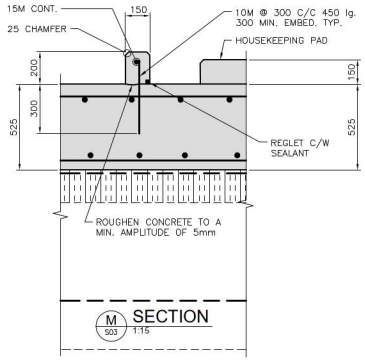
N S05 S03 1:15 SECTION



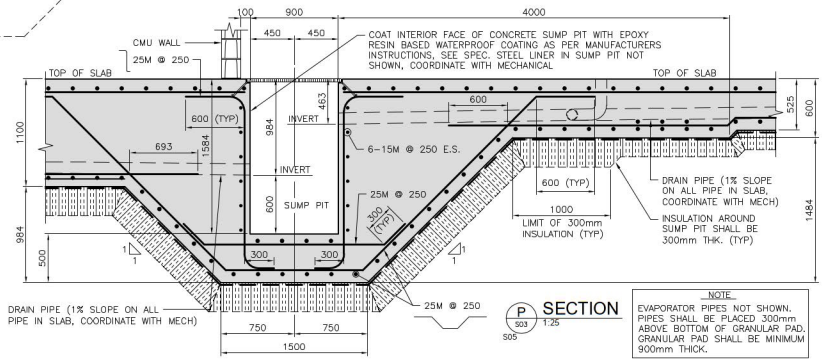
NOTES:

1. LOCATION OF CONSTRUCTION JOINTS TO BE WHERE SHOWN ON THE DRAWINGS AND/OR AS SPECIFIED.

CONSTRUCTION JOINT
1:15



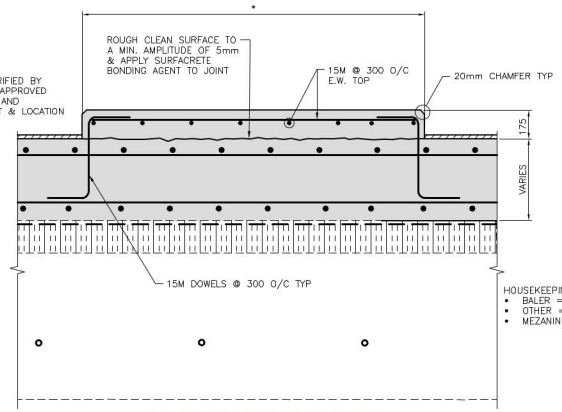
M S03 1:15 SECTION



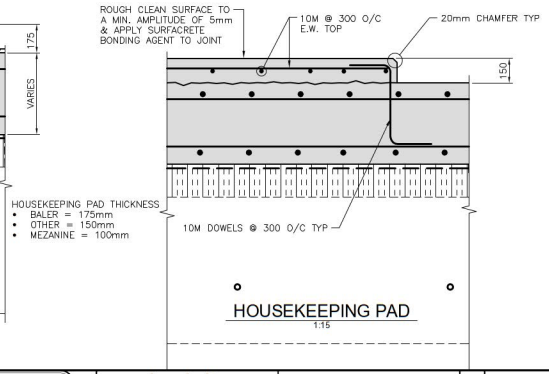
P S05 S03 1:25 SECTION

NOTE
EVAPORATOR PIPES NOT SHOWN. PIPES SHALL BE PLACED 300mm ABOVE BOTTOM OF GRANULAR PAD. GRANULAR PAD SHALL BE MINIMUM 900mm THICK.

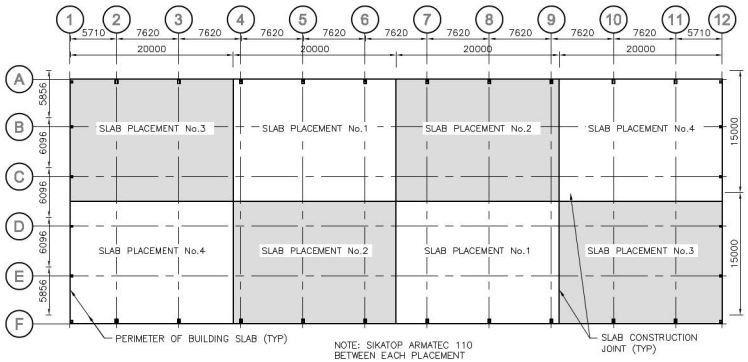
NOTE:
* DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR AGAINST FINAL APPROVED EQUIPMENT SHOP DRAWINGS AND ADJUSTED FOR ACCURATE FIT & LOCATION



BALER HOUSEKEEPING PAD
1:15



HOUSEKEEPING PAD
1:15



NOTE: SIKATOP ARMATEC 110 BETWEEN EACH PLACEMENT

NOTE: MAINTAIN 7 DAYS MINIMUM BETWEEN EACH PLACEMENT.

SLAB ON GRADE KEY PLAN - PROPOSED SLAB CONSTRUCTION JOINTS
1:300

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1	30% REVIEW	2019/06/04	K.B.

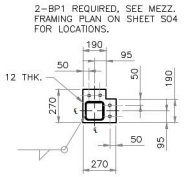
DESIGN	LA
REVIEWED BY	GM
DRAWN	DJB/BS
CHECKED BY	CPW
DATE	NOVEMBER 2022
SCALE	

CITY OF IQALUIT
WASTE TRANSFER STATION

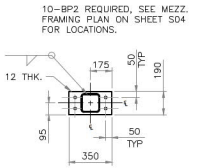
SLAB SECTIONS & DETAILS 3

PROJECT NO. 19-9543

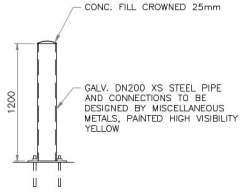
SHEET NO. WTS-S08



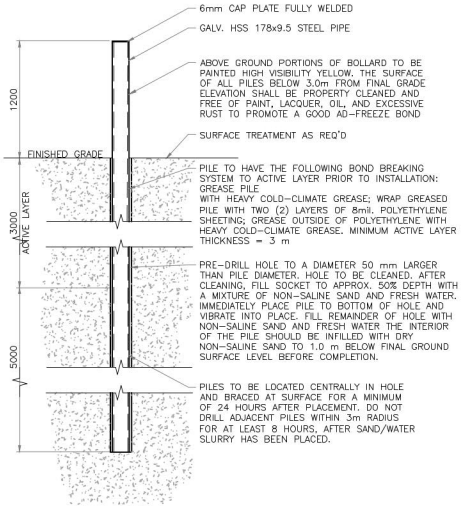
BP1 DETAIL
1:20



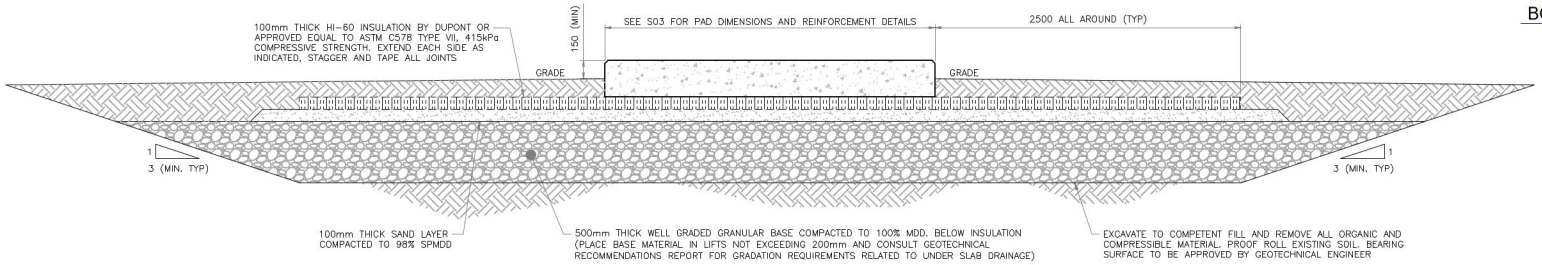
BP2 DETAIL
1:20



BOLLARD DETAIL "B1"
1:20

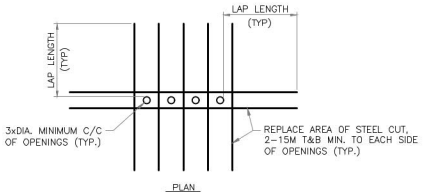


BOLLARD DETAIL "B2"
N.T.S.

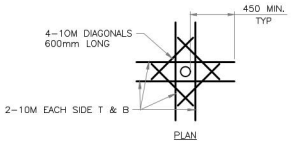


NOTE: ENSURE SURROUNDING FINISHED GRADE IS SLOPED TO PROVIDE PROPER DRAINAGE. COORDINATE FINAL INSULATION ELEVATION AND SUB-BASE DETAIL WITH ENGINEER AND ON SITE GEOTECHICAL ENGINEER FOLLOWING CONFIRMATION OF FINAL EQUIPMENT AND PAD SIZES. ENSURE INSULATION HAS MINIMUM 150mm COVERAGE BELOW FINAL GRADE.

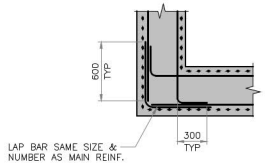
A CROSS SECTION - TYPICAL EXTERIOR EQUIPMENT PAD
1:20



ADDITIONAL SLAB REINFORCEMENT
WITH FOUR OR MORE OPENINGS
1:25



TYPICAL REINFORCEMENT AROUND OPENINGS
WITH DIAMETER LARGER THAN 100 mm IN COMPOSITE DECK
1:25



TYPICAL CORNER REINFORCING
1:25
600mm WIDE PUSH WALL SHOWN
400mm CONC. WALL SIMILAR
(SEE SHEET S06 FOR WALL SECTIONS)

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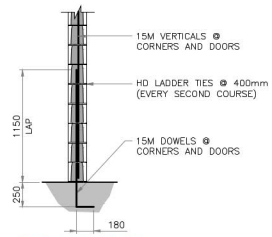
DESIGN	LA
REVIEWED BY	GM
DRAWN	DJB/BS
CHECKED BY	CPW
DATE	NOVEMBER 2022
SCALE	

CITY OF IQALUIT
WASTE TRANSFER STATION

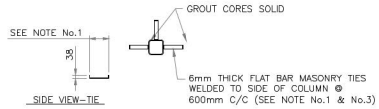
PROJECT NO. 19-9543

BASE PLATES, SLAB SECTION & TYPICAL DETAILS

SHEET NO. WTS-S09

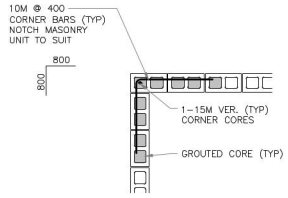


TYP. MASONRY WALL REINFORCING
1:25

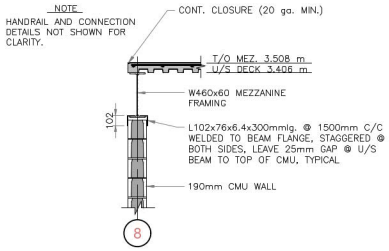


NOTES
1. TIE LENGTH SHALL BE AS REQUIRED, SO THAT END HOOK OF TIE IS (±) AT CENTER OF FIRST CORE OF CMU.
2. GROUT FILL CORES OF CMU WHERE TIES ARE LOCATED.
3. CONTRACTOR SHALL DETERMINE WHICH FACE OF COLUMN REQUIRES MASONRY TIES PRIOR TO FABRICATION.

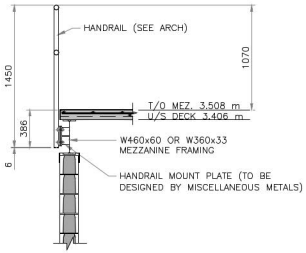
TYP. MASONRY TIES @ MEZZANINE COLUMNS
1:25



TYP. MASONRY CORNER REINFORCING
1:25

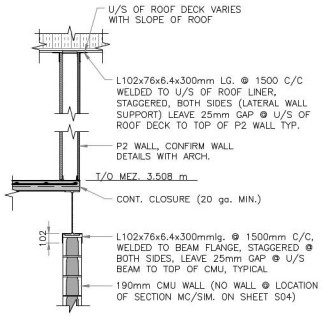


MA S04 SECTION - LATERAL WALL SUPPORT
1:25

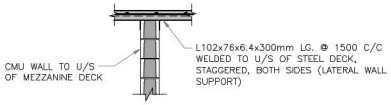


NOTE: CONTRACTOR SHALL CONFIRM ALL RELATIVE DIMENSIONS FOR RAILS AND COORDINATE INSTALLATION WITH ARCHITECTURAL.

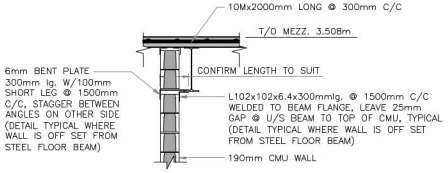
MB S04 SECTION
1:25



MC S04 SECTION
1:25



MD S04 SECTION - LATERAL WALL SUPPORT
1:25



ME S04 SECTION -WALL OFFSET FROM BEAM (TYP.)
1:25

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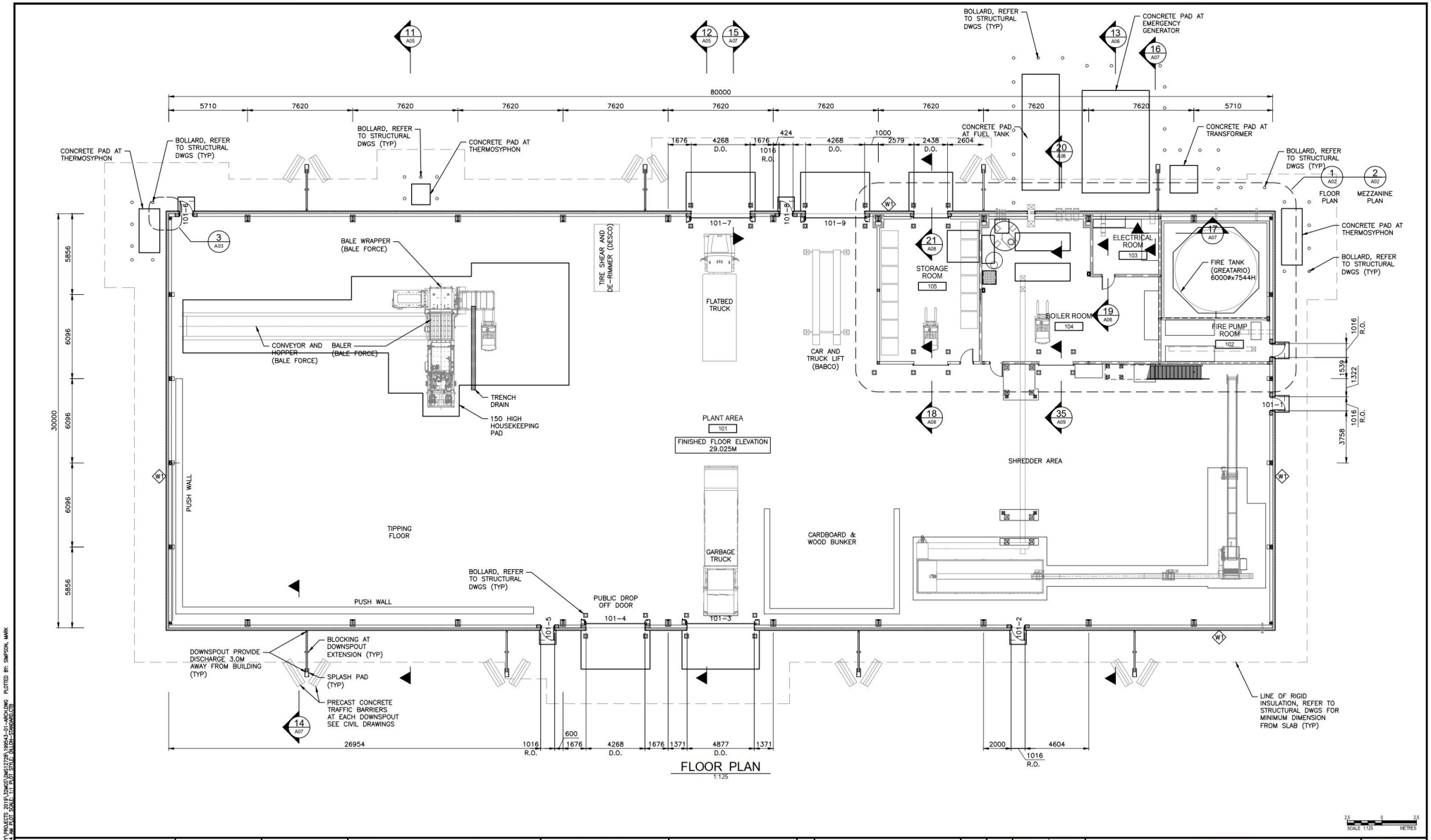
DESIGN: LA | REVIEWED BY: GM
DRAWN: DJB/BS | CHECKED BY: CPW
DATE: NOVEMBER 2022
SCALE:

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

MEZZANINE SECTIONS & DETAILS

SHEET NO. WTS-S10



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1	30% REVIEW	2019/06/04	K.B.

DESIGN: JAA
REVIEWED BY: ND
DRAWN: PDR
CHECKED BY: WWD
DATE: NOVEMBER 2022
SCALE: NOTED

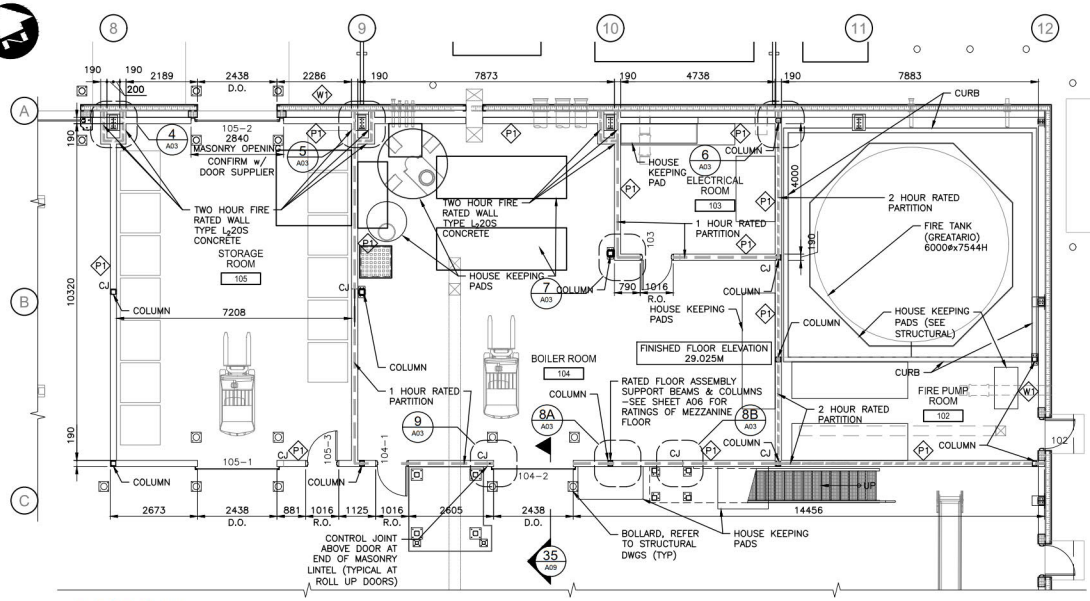
CITY OF IQALUIT
WASTE TRANSFER STATION

FLOOR PLAN

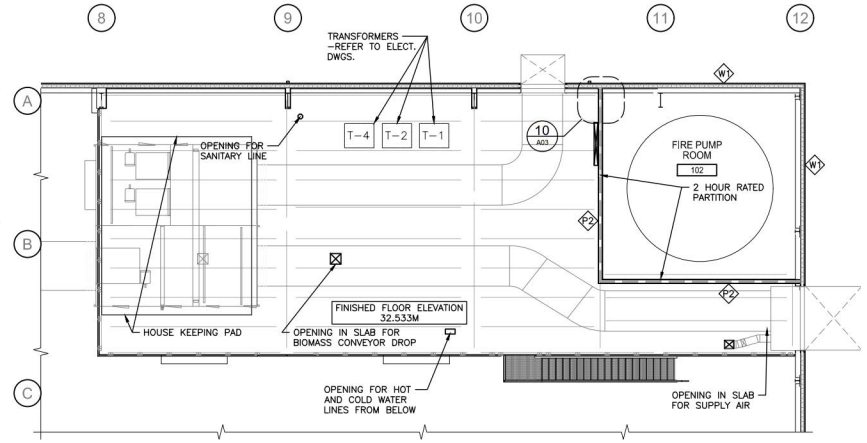
PROJECT NO. 19-9543

SHEET NO. **WTS-A01**

FLDWG: C:\My Working Directory\Projects 2019\19-9543\DWG\19-9543-01-ARCH.DWG PLOTTED BY: SIMPSON, MARK
PLOT DATE: 2025-11-09 @ 11:46:14 AM PLOT SCALE: 1:1 PLOT STYLE: DILLON-CHANGES.CTB



1 A01 FLOOR PLAN
1:75



2 A01 MEZZANINE PLAN
1:100

ROOM FINISH SCHEDULE

ROOM No.	NAME	FLOOR		BASE	WALLS		CEILINGS			REMARKS
		MATERIAL	FINISH		MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
101	PLANT AREA	CONC	HDR	–	LP_CMU	PNT	LP	PREFIN	–	
102	FIRE PUMP ROOM	CONC	SEALER	–	LP_CMU	PNT	LP	EXPOSED	–	
103	ELECTRICAL ROOM	CONC	SEALER	–	LP_CMU	PNT	LP	EXPOSED	–	
104	BOILER ROOM	CONC	SEALER	–	LP_CMU	PNT	LP	EXPOSED	–	
105	STORAGE ROOM	CONC	SEALER	–	LP_CMU	PNT	LP	EXPOSED	–	
106	MEZZANINE AREA	CONC	SEALER	–	LP	PNT	LP	EXPOSED	–	

DOOR, FRAME ELEVATIONS
1:50

DOOR, FRAME AND HARDWARE SCHEDULE

NUMBER	FROM	TO	SWING	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR MAT	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME MAT	FRAME FINISH	FRAME RATING	FRAME DETAIL	REMARKS	HDW PKG
101-1	101	EXT	RH	F	914	2134	45	HM	PT		F1	TBHM	PT			INSULATED DOOR AND FRAME	PKG 1
101-2	101	EXT	LH	F	914	2134	45	HM	PT		F1	TBHM	PT			INSULATED DOOR AND FRAME	PKG 2
101-3	101	EXT	–	OH	4877	7000	45									RAL 5010	
101-4	101	EXT	–	OH	4268	6096	45									RAL 5010	
101-5	101	EXT	LH	F	914	2134	45	HM	PT		F1	TBHM	PT			INSULATED DOOR AND FRAME	PKG 1
101-6	101	EXT	LH	F	914	2134	45	HM	PT		F1	TBHM	PT			INSULATED DOOR AND FRAME	PKG 2
101-7	101	EXT	–	OH	4268	6096	45									RAL 5010	
101-8	101	EXT	LH	F	914	2134	45	HM	PT		F1	TBHM	PT			INSULATED DOOR AND FRAME	PKG 1
101-9	101	EXT	–	OH	4268	6096	45									RAL 5010	
102	102	EXT	RHR	F	914	2134	45	HM	PT		F1	TBHM	PT			INSULATED DOOR AND FRAME	PKG 1
103	101	103	RHR	F	914	2134	45	HM	PT		F1	HM	PT	3/4 HR		SELF-CLOSING MECHANISM AND POSITIVE LATCHING	PKG 3
104-1	101	104	RHR	F	914	2134	45	HM	PT		F1	HM	PT	3/4 HR		SELF-CLOSING MECHANISM AND POSITIVE LATCHING	PKG 3
104-2	101	105	–	OH	2438	2400		STEEL	PREFIN					3/4 HR		PROVIDE FUSIBLE LINK IN DOOR, RAL 9018	
105-1	101	105	–	OH	2438	2400		STEEL	PREFIN							RAL 9018	
105-2	105	EXT	–	OH	2438	2400	45									BETWEEN JAMB MOUNTING, RAL 5010	
105-3	101	105	RH	F	914	2134	45	HM	PT		F1	HM	PT				PKG 3

HARDWARE PACKAGE 1
- 3 HINGES (NR PINS)
- 1 EXIT DEVICE
- 1 RIM CYLINDER
- 1 CORE ONLY
- 1 CLOSER
- 1 LEVER HANDLE TRIM
- 1 KICK PLATE
- 1 THRESHOLD (THERMALLY BROKEN)
- 1 WEATHERSTRIP
- 1 DOOR SWEEP AND AUTOMATIC DOOR BOTTOM

HARDWARE PACKAGE 2
- 3 HINGES (NR PINS)
- 1 EXIT DEVICE
- 1 CLOSER
- 1 KICK PLATE
- 1 THRESHOLD (THERMALLY BROKEN)
- 1 WEATHERSTRIP
- 1 DOOR SWEEP AND AUTOMATIC DOOR BOTTOM

HARDWARE PACKAGE 3
- 3 HINGES (NR PINS)
- 1 PASSAGE SET
- 1 CLOSER
- 1 KICK PLATE
- 1 HOLD OPEN DEVICE

WALL / PARTITION SCHEDULE

TYPE	DESCRIPTION
W1	38 PREFINISHED METAL SIDING 152 SEMI RIGID INSULATION (R19) WITH NOTCHED Z SUB GIRTS 16 METAL LINER PANEL / VAPOUR BARKIER 203 Z GIRTS
P1	190 CONCRETE BLOCK HEAVY DUTY HORIZONTAL REINFORCING EVERY SECOND COURSE. 15M VERTICAL REINFORCING @ 400 O.C. 2 COURSE BOND BEAM WITH 2-15M CONTINUOUS BARS IN EACH (SEE PLAN FOR FIRE RATING REQUIRED AT BLOCK WALLS)
P2	2 FIRE RATED GYPSUM BOARD ASSEMBLY TO ULC W506 • C-H SHAPED STUDS, MIN 152MM DEEP @ 610 O.C. • 25MM THICK GYPSUM LINER PANELS • 16MM THICK, 1219 WIDE GYPSUM BOARD TYPE 'X', APPLIED IN TWO LAYERS. BASE LAYER APPLIED HORIZONTALLY OR VERTICALLY, FACE LAYER APPLIED VERTICALLY. SHAFT WALLS TO BE TO U/S OF ROOF STRUCTURE AND BUILDING FRAMING (ALLOW FOR BUILDING DEFLECTION)

ABBREVIATIONS

CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
EXT	EXTERIOR
HDR	HARDENER
HM	HOLLOW METAL
HR	HOUR
HWD	HARDWARE
GWB	GYPSUM WALL BOARD
LH	LEFT HAND
LP	LINER PANEL
MTL	METAL
NR	NON-REMOVABLE
NL	NARROW LITE
OH	OVERHEAD
PKG	PACKAGE
PREFIN	PREFINISHED
PT	PAINT
RH	RIGHT HAND
TBHM	THERMALLY BROKEN HOLLOW METAL
U/S	UNDERSIDE
VT	VINYL TILE

1.5 0 1.5 SCALE 1:75 METRES

2 0 2 SCALE 1:100 METRES

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DESIGN: JAA | REVIEWED BY: ND
DRAWN: PDR | CHECKED BY: WWD
DATE: NOVEMBER 2022
SCALE: NOTED

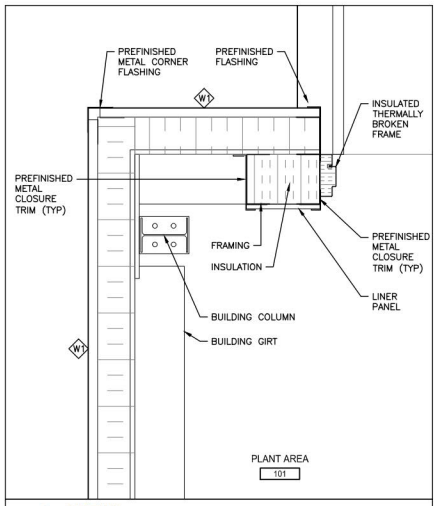
CITY OF IQALUIT
WASTE TRANSFER STATION

ENLARGED FLOOR PLAN, MEZZANINE PLAN, SCHEDULES, DOOR, FRAME ELEVATIONS ABBREVIATIONS

PROJECT NO. 19-9543

SHEET NO. **WTS-A02**

FILENAME: C:\USERS\SNAGSHAPPVAN\DOWNLOADS\19-9543-01-ARCH.DWG PLOTTED BY: SHAPSON, MARK
PLOT DATE: 2022-11-09 @ 11:15:14 AM PLOT SCALE: 1:24.4 PLOT STYLE: BW.CTB



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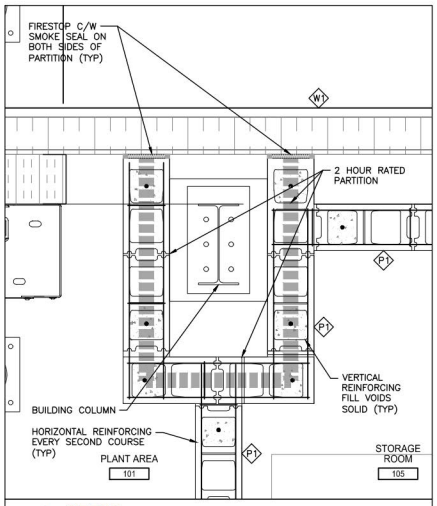

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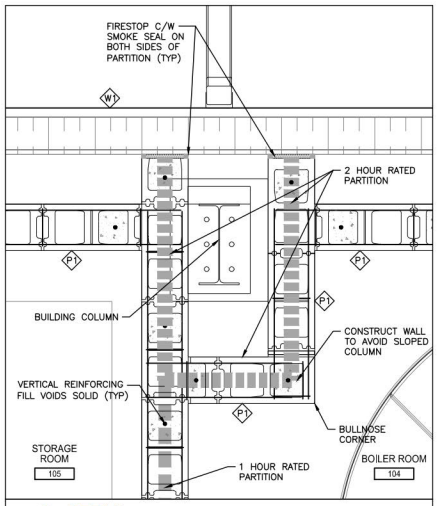

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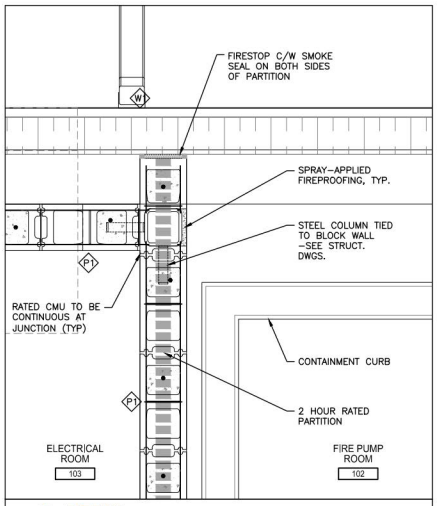

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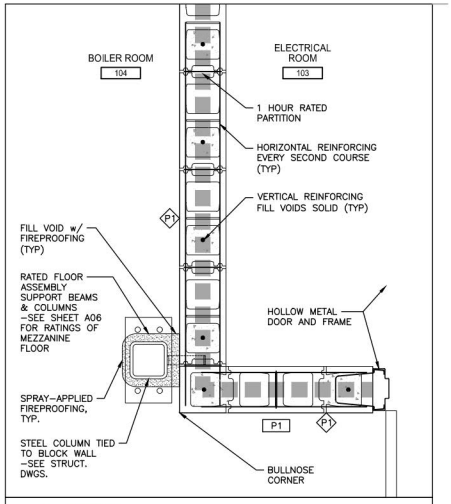

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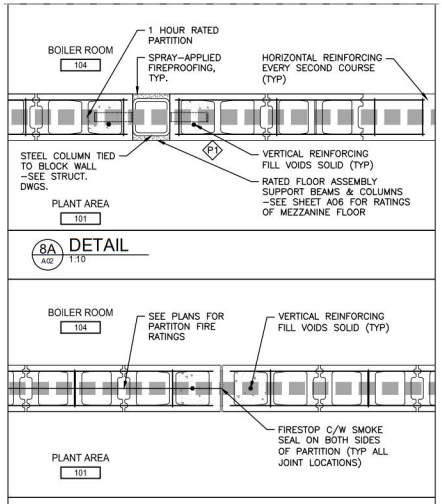

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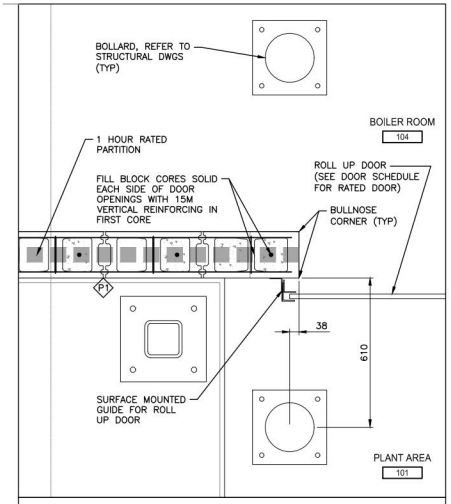
8B A02 DETAIL - CONTROL JOINTS 1:10



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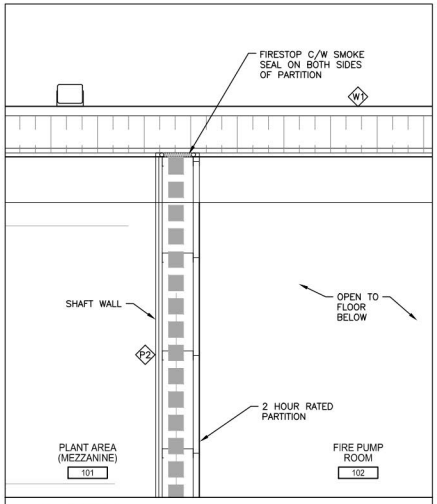

10 A02 DETAIL 1:10

0.2 0 0.2
SCALE 1:10 METRES

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DESIGN: JAA | REVIEWED BY: ND
DRAWN: PDR | CHECKED BY: WWD
DATE: NOVEMBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

PLAN DETAILS

PROJECT NO. 19-9543

SHEET NO. **WTS-A03**

FILENAME: C:\USERS\SNAPSHAPPIRUSH_SATS\19543-01-ARCH.DWG PLOTTED BY: SIMPSON, MARK
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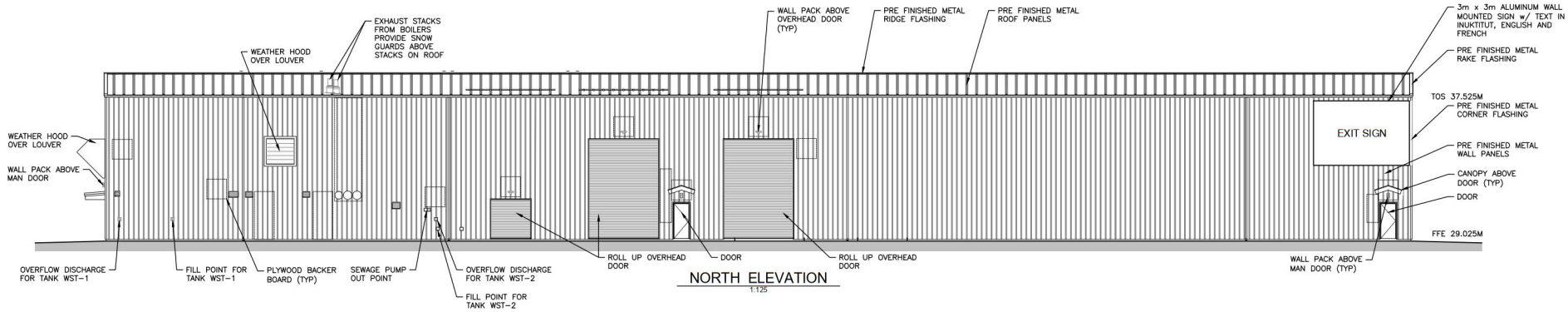
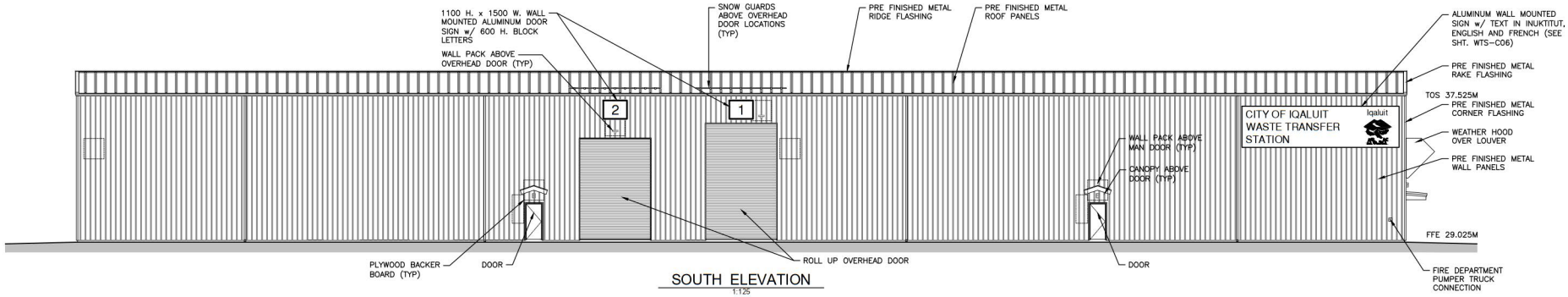
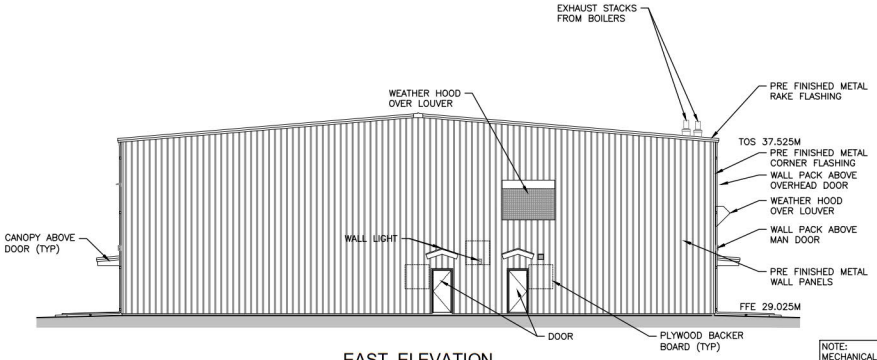


NORTH ELEVATION
1:125

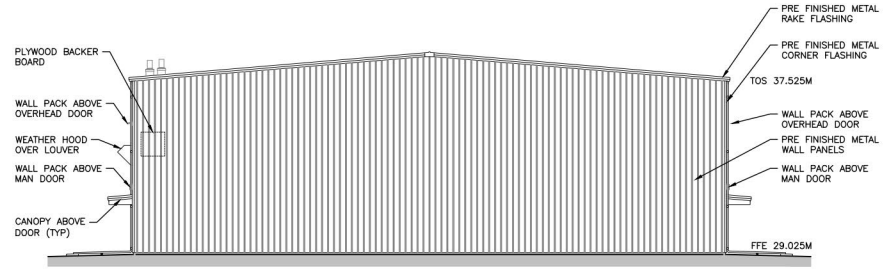


SOUTH ELEVATION
1:125



EAST ELEVATION
1:125

NOTE:
MECHANICAL AND ELECTRICAL PAD MOUNTED EQUIPMENT AND BOLLARDS NOT SHOWN FOR CLARITY.



WEST ELEVATION
1:125

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SCALE 1:125 METRES

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DESIGN: JAA
REVIEWED BY: ND
DRAWN: PDR
CHECKED BY: WWD
DATE: NOVEMBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

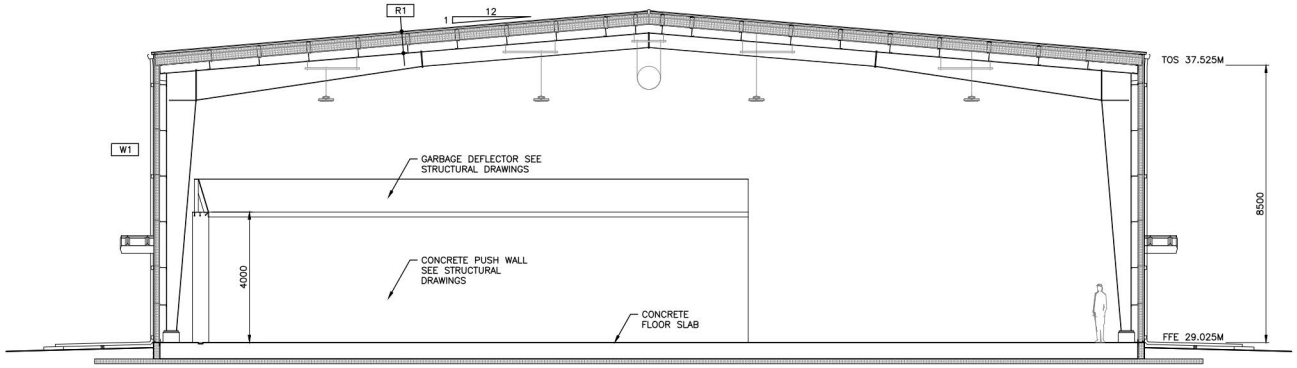
BUILDING ELEVATIONS

PROJECT NO. 19-9543

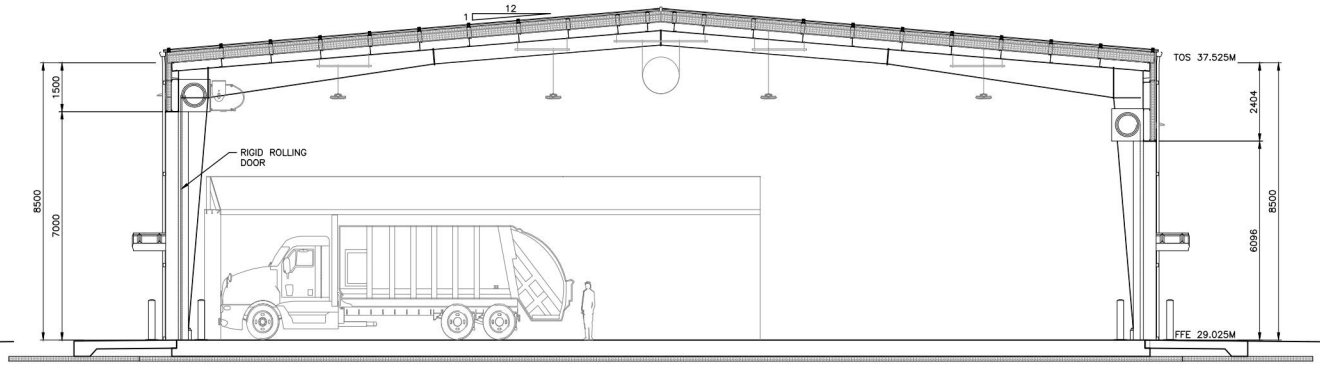
SHEET NO. WTS-A04

PLOT DATE: 2022-11-09 @ 11:11:15 AM LAYOUT SCALE: 1:25 X 1:25 TITLE: BLDG ELEVATIONS
PLOTTED BY: SIMPSON, MARK
PLOT FILE: C:\USERS\SIMPSONMARK\LOCAL\TEMP\ACPUBLISH_5475.1\WTS-A-01-ARCH.DWG

ROOF SCHEDULE	
TYPE	DESCRIPTION
R1	38 STANDING SEAM ROOF PANELS 51 HAT CHANNELS THERMAL HAT CLIPS TO PROVIDE DEPTH FOR R40 INSULATION R40 SEMI RIGID INSULATION 16 LINER PANE / VAPOUR BARRIER 254 ROOF PURLINS



11 A01 SECTION 1:75



12 A01 SECTION 1:75

1.5 0 1.5
SCALE 1:75 METRES

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DESIGN: JAA
REVIEWED BY: ND
DRAWN: PDR
CHECKED BY: WWD
DATE: NOVEMBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

CROSS SECTIONS SHEET 1

SHEET NO. WTS-A05

PLOT DATE: 2022-11-09 @ 11:11:15 AM PLOT SCALE: 1:2.5 PLOT STYLE: DILLON-GRAYSCALE.CTB
PLOTTED BY: SIMPSON, MARK
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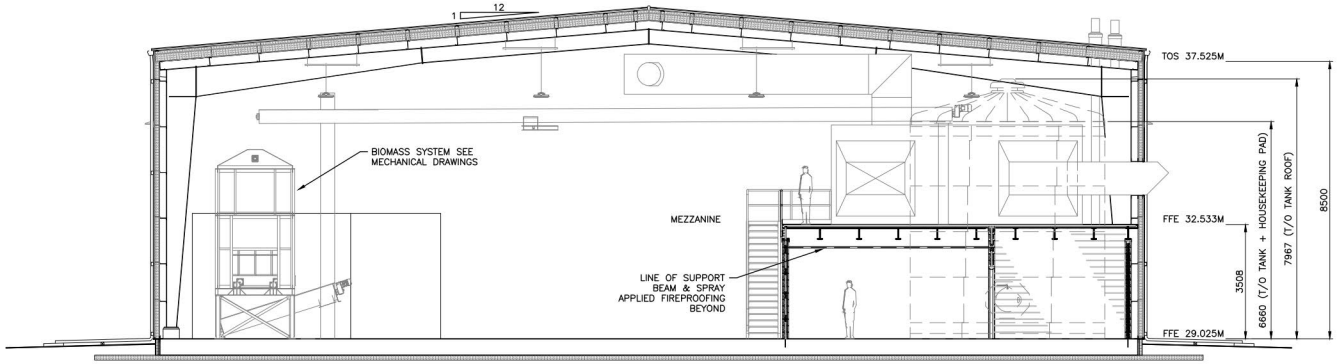
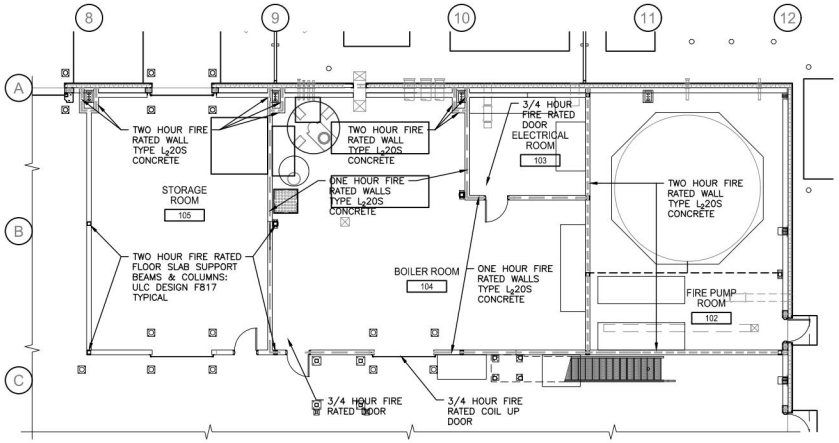
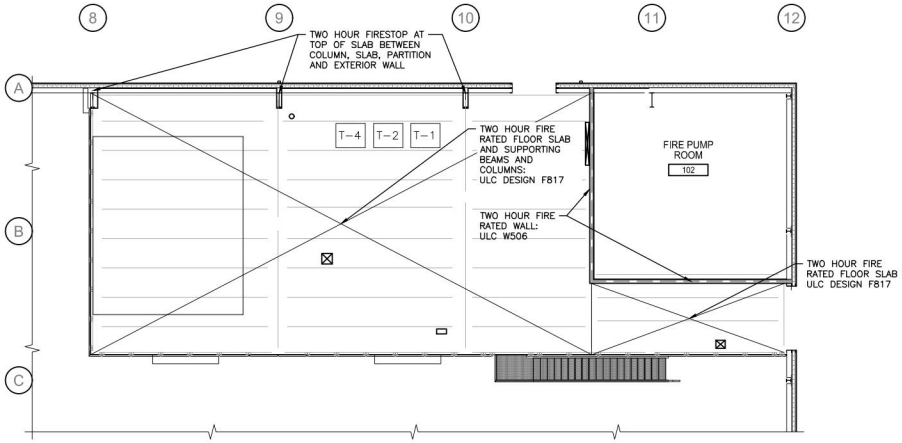


13 A01 SECTION 1:75

SCALE 1:75 METRES



FIRE RATING FLOOR PLAN
1:100



FIRE RATING MEZZANINE PLAN
1:100

SCALE 1:100 METRES

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DESIGN: JAA
REVIEWED BY: ND
DRAWN: PDR
CHECKED BY: WWD
DATE: NOVEMBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

CROSS SECTIONS SHEET 2
FIRE RATED ASSEMBLY PLANS

PROJECT NO. 19-9543

SHEET NO. WTS-A06

FILENAME: C:\USERS\SIMPSONMARK\DOWNLOADS\TEMP\APWBUFSH_54575.19SC43-01-ARCH.DWG PLOTTED BY: SIMPSON, MARK
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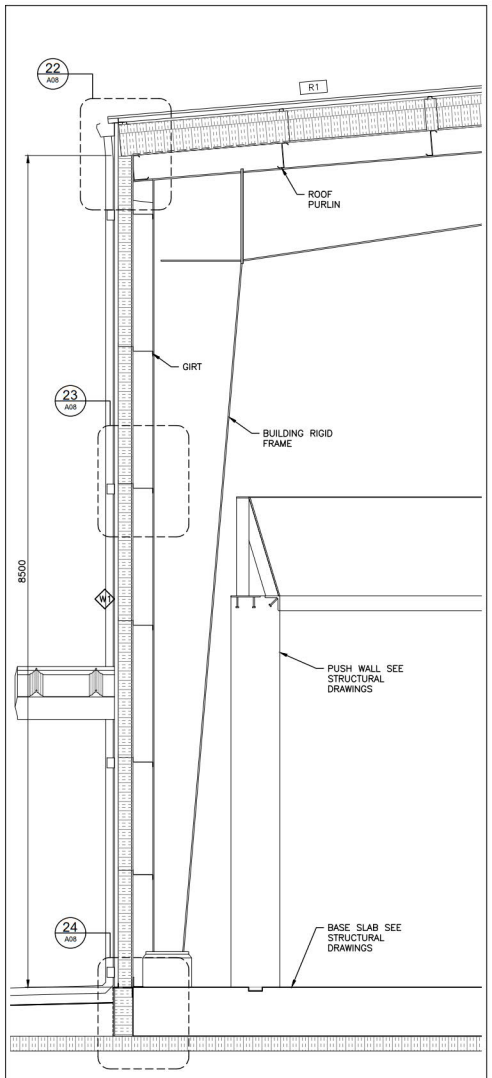

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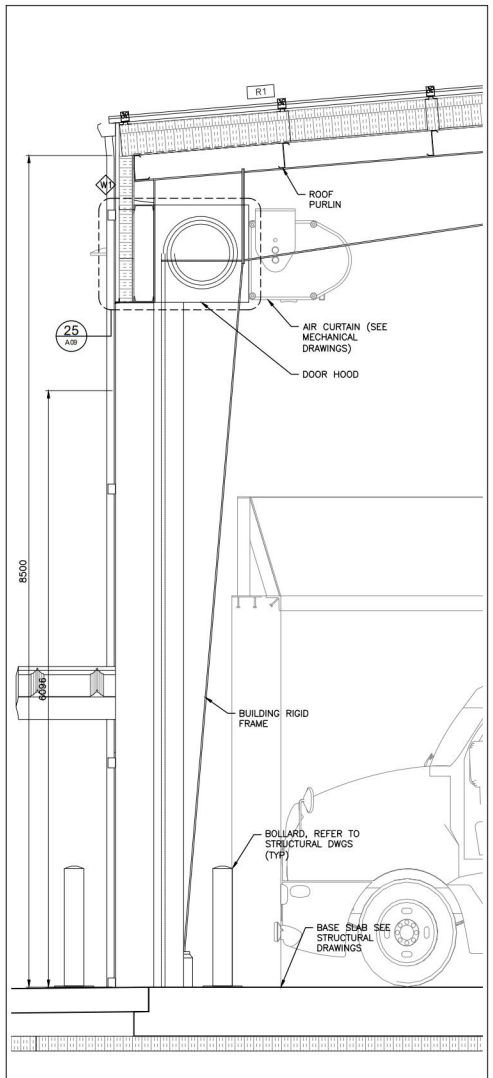

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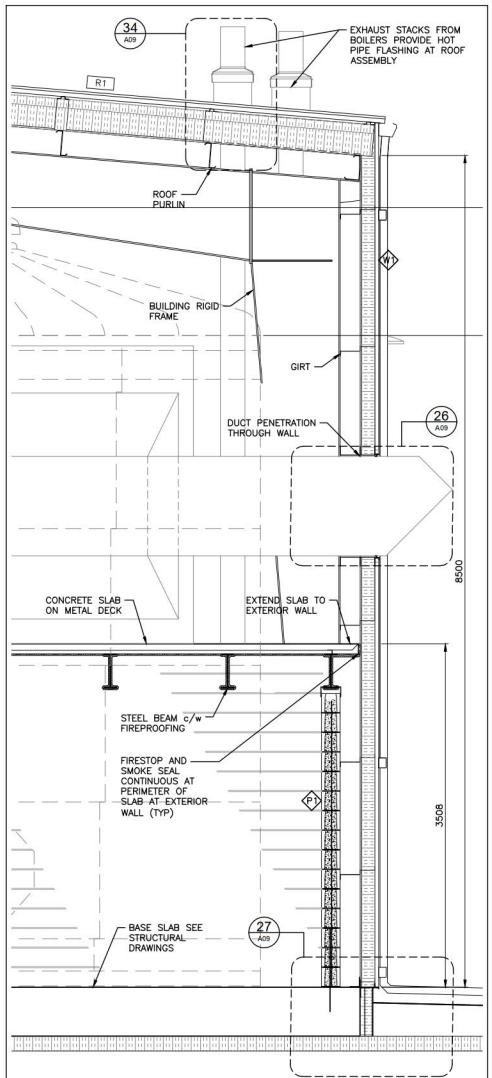

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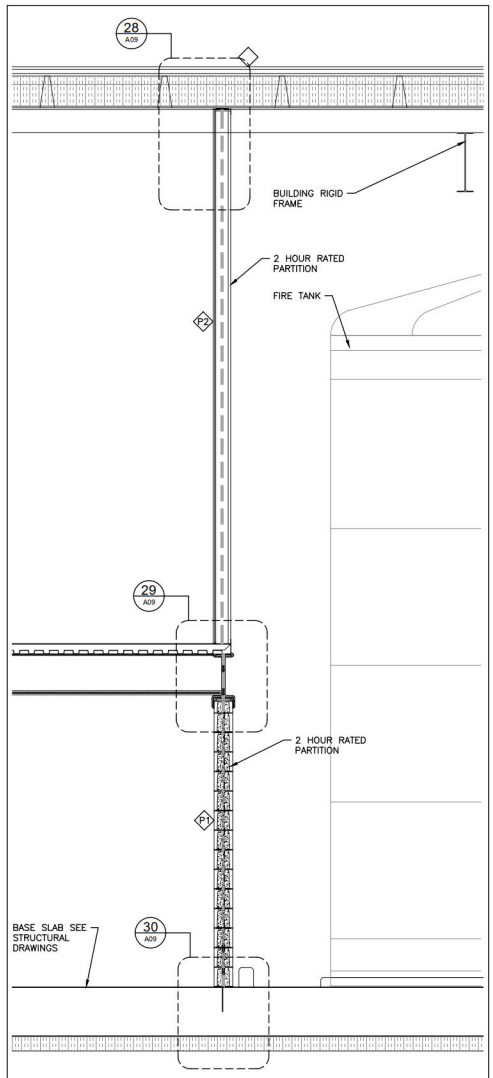

17 A01 SECTION 1:25

0.5 0 0.5
SCALE 1:25 METRES

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DESIGN	JAA
REVIEWED BY	ND
DRAWN	PDR
CHECKED BY	WWD
DATE	NOVEMBER 2022
SCALE	NOTED

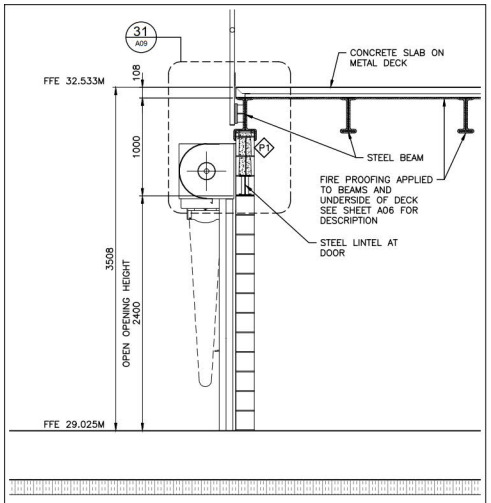
CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

WALL SECTIONS SHEET 1

SHEET NO. WTS-A07

PLOTTED BY: SIMPSON, MARK
PLOT DATE: 2022-11-09 @ 11:15:14 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



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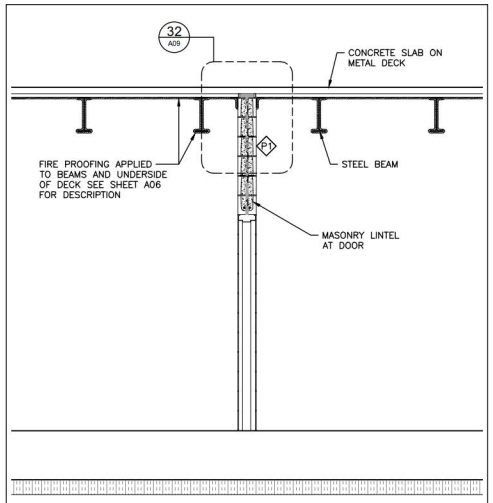

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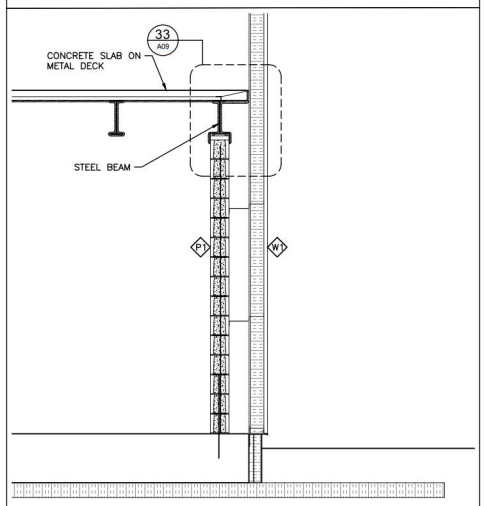

20 A01 SECTION 1:25

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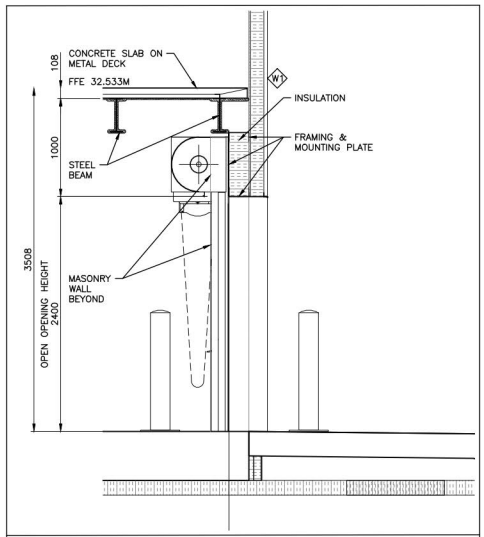
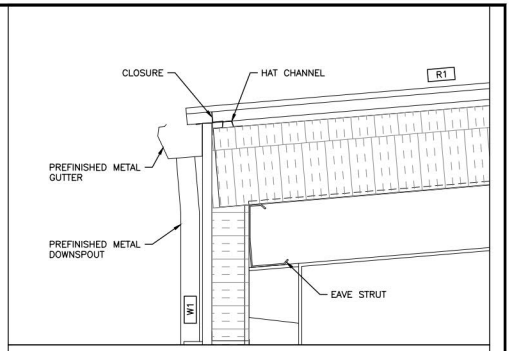
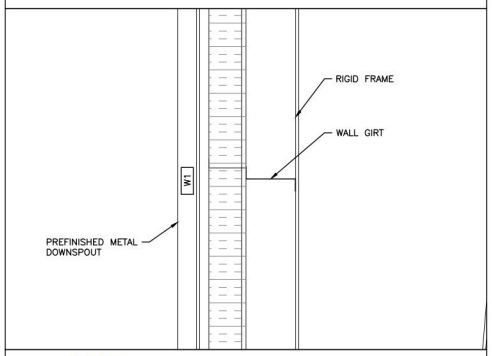


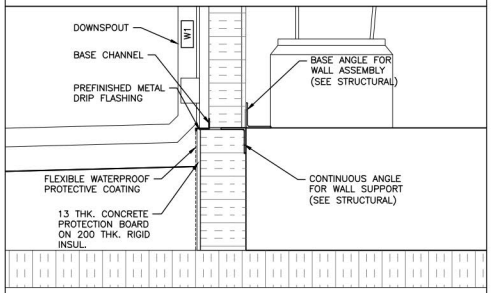
21 A01 SECTION 1:25



22 A07 DETAIL 1:10



23 A07 DETAIL 1:10



24 A07 DETAIL 1:10

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SCALE 1:10 METRES

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DESIGN: JAA | REVIEWED BY: ND
DRAWN: PDR | CHECKED BY: WWD
DATE: NOVEMBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

WALL SECTIONS SHEET 2

SHEET NO. WTS-A08

PLOTTED BY: SIMPSON, MARK
PLOT DATE: 2022-11-09 @ 11:16:14 AM PLOT SCALE: 1:24X, 1:12X STYLE: DILLON-STANDARD.CTB
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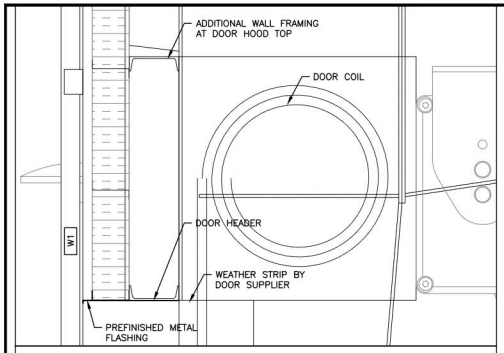

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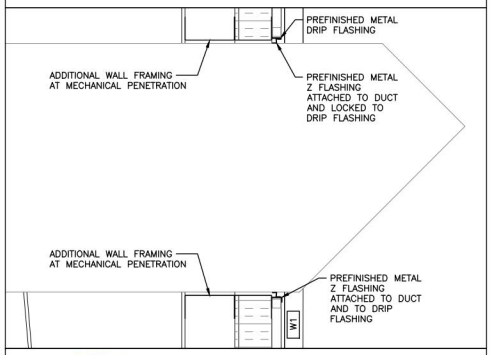

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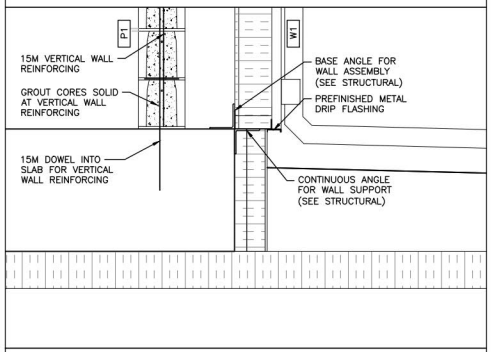

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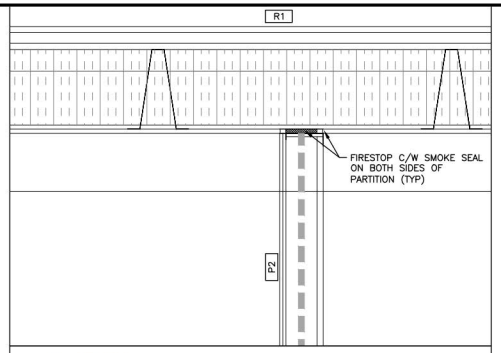

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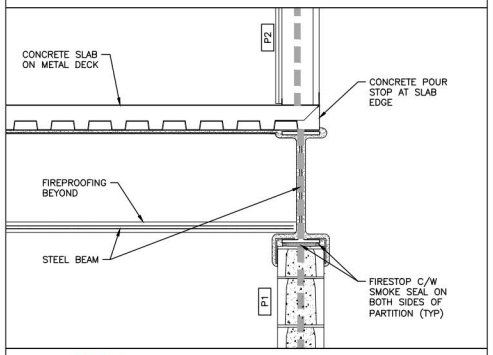

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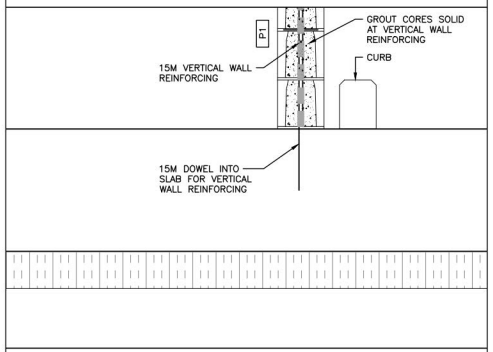

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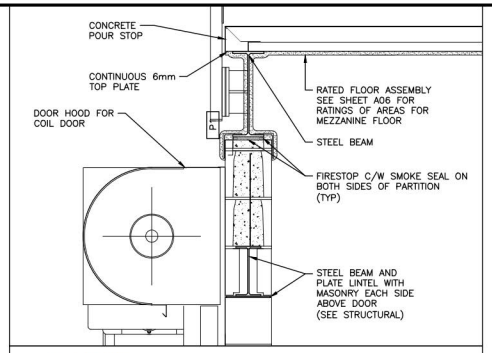

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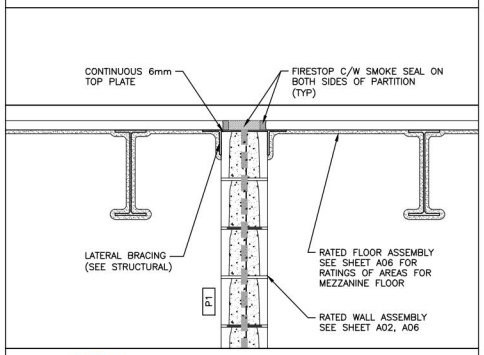

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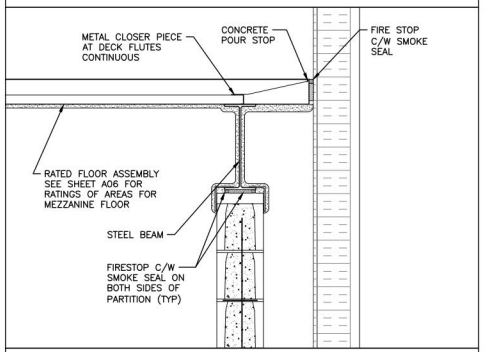

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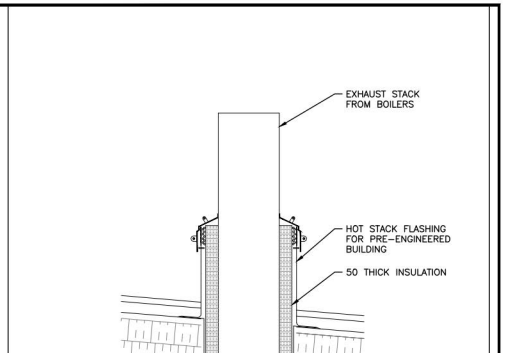

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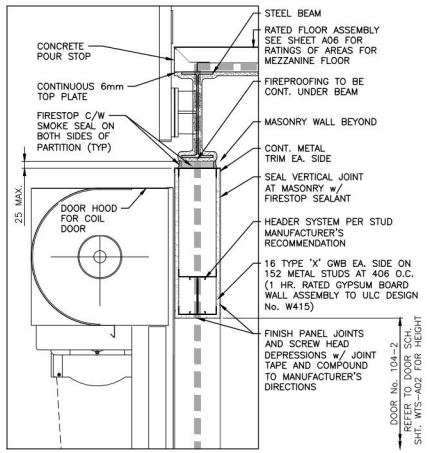

35 A01,A02 DETAIL 1:10

0.2 0 0.2
SCALE 1:10 METRES

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DESIGN: JAA | REVIEWED BY: ND
DRAWN: PDR | CHECKED BY: WWD
DATE: NOVEMBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

SECTION DETAILS

SHEET NO. WTS-A09

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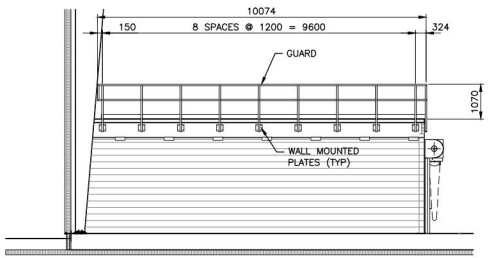
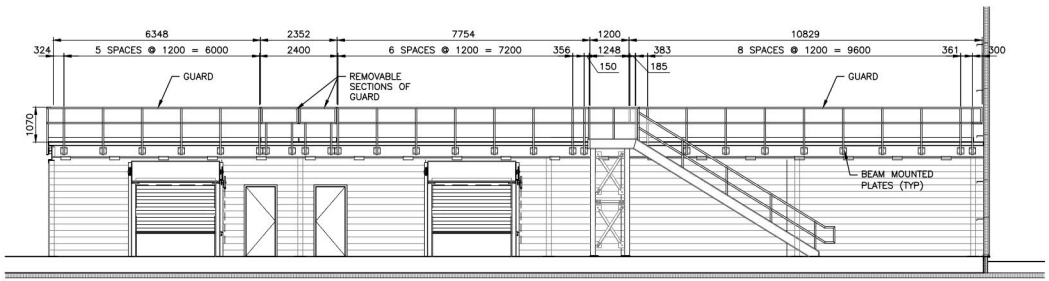
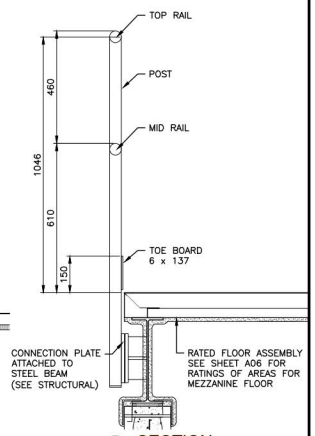
PLOT DATE: 2022-11-09 @ 11:15:14 AM PLOT SCALE: 1:25K PLOT STYLE: DILLON-STANDARD.CTB



GUARD ELEVATION - WEST WALL
1:75



GUARD ELEVATION - SOUTH WALL
1:75



35 A10 SECTION
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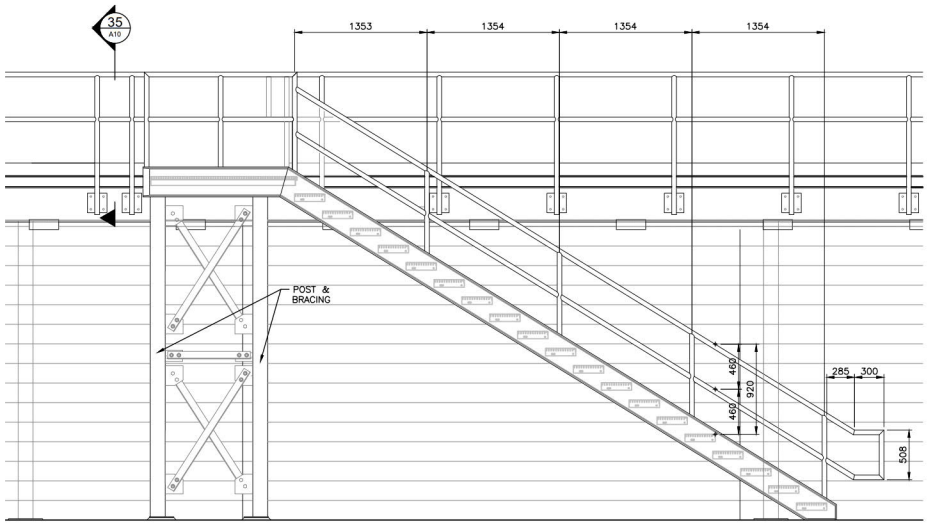
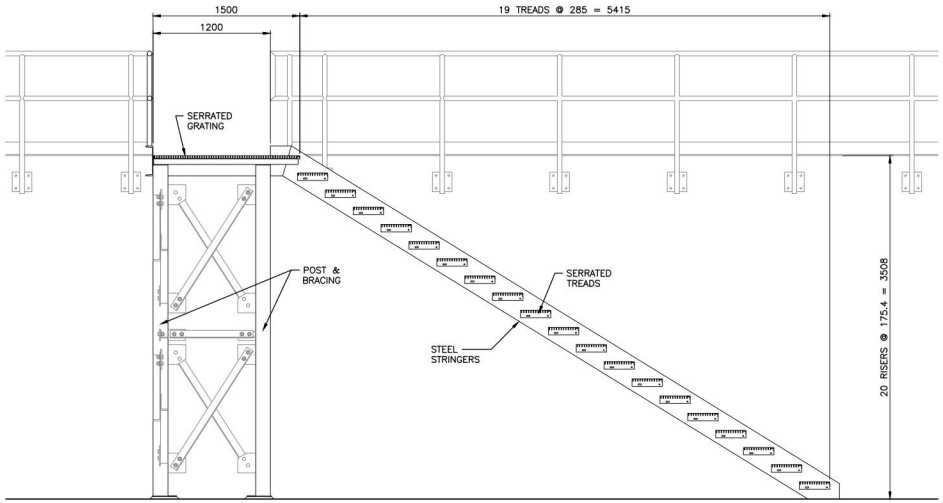


STAIR HANDRAIL , GUARD ELEVATION
1:25



SECTION THROUGH STAIR
1:25

SCALE 1:10 METRES SCALE 1:25 METRES SCALE 1:75 METRES

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1	30% REVIEW	2019/06/04	K.B.

DESIGN: JAA | REVIEWED BY: ND
DRAWN: PDR | CHECKED BY: WWD
DATE: NOVEMBER 2022
SCALE: NOTED

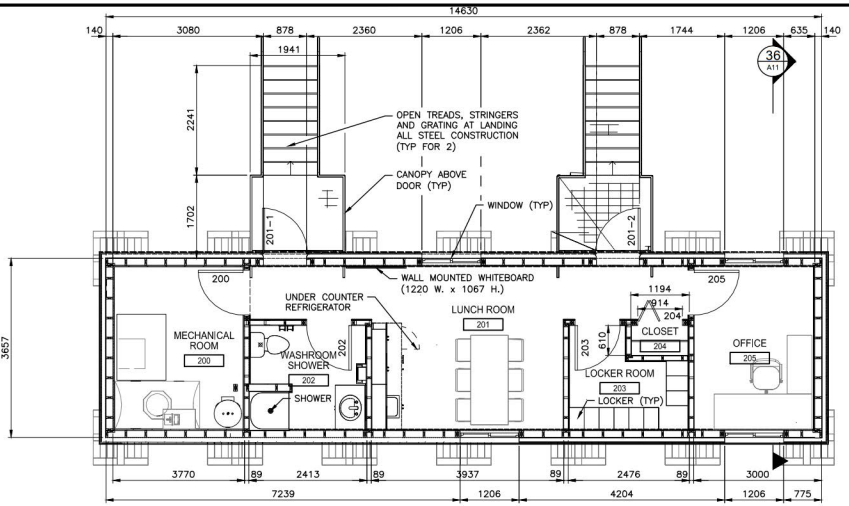
CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

MISCELLANEOUS METAL ELEVATIONS, SECTION

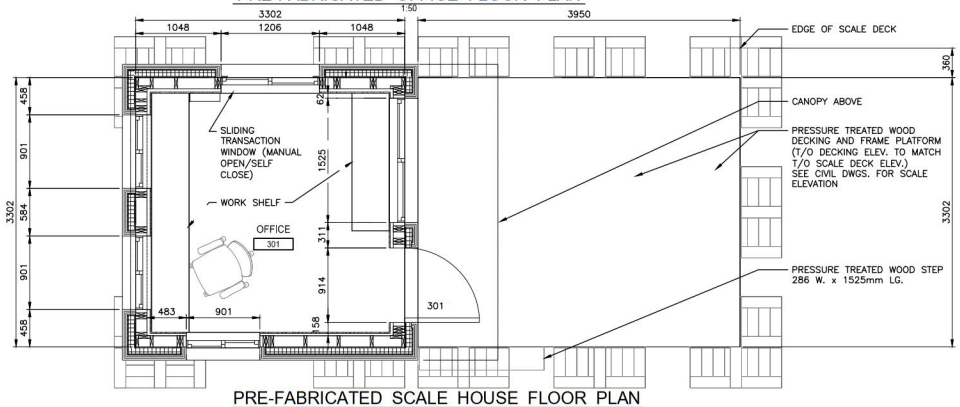
SHEET NO. WTS-A10

FILENAME: C:\USERS\STANDARDUSER\DATA\APPDATA\LOCAL\TEMP\AUTOREVISION\19543-01-ARCH.DWG PLOTTED BY: SIMPSON, MARK
PLOT DATE: 2022-11-09 @ 11:16:14 AM PLOT SCALE: 1:24X, 1:12X, 1:7.5X STYLE: DILLON-STANDARD.CTB



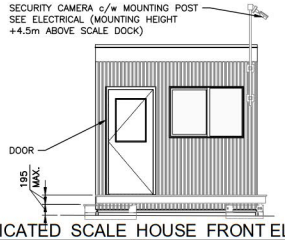
PRE-FABRICATED OFFICE FLOOR PLAN

1:50



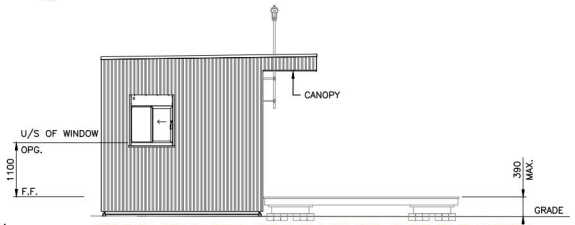
PRE-FABRICATED SCALE HOUSE FLOOR PLAN

1:30



PRE-FABRICATED SCALE HOUSE FRONT ELEVATION

1:50



PRE-FABRICATED SCALE HOUSE SIDE ELEVATION

1:50

DOOR, FRAME AND HARDWARE SCHEDULE

NUMBER	FROM	TO	SWING	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR MAT	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME MAT	FRAME FINISH	RATING	DETAIL	REMARKS	HDW PKG
200	201	200	RH	WD	914	2134	45	HM	PT		F1	HM	PT				PKG 2
201-1	201	EXT	LH	A	914	2134	45	HM	PT		F1	TBHM	PT			INSULATED DOOR AND FRAME	PKG 1
201-2	201	EXT	RH	A	914	2134	45	HM	PT		F1	TBHM	PT			INSULATED DOOR AND FRAME	PKG 1
202	201	202	LH	WD	914	2134	45	HM	PT		F1	HM	PT				PKG 3
203	201	203	RH	WD	914	2134	45	HM	PT		F1	HM	PT				PKG 3
204	201	204	BI-FOLD	WD	914	2134	45	HM	PT							PAIR BI-FOLD DOORS	
205	201	205	RH	WD	914	2134	45	HM	PT		F1	HM	PT				PKG 2
301	301	EXT	LH	A	914	2134	45	HM	PT	SAFETY	F1	TBHM	PT			INSULATED DOOR & FRAME, INSULATED GLAZING UNIT	PKG 1
401	401	EXT	LH	A	914	2134	45	HM	PT	SAFETY	F1	TBHM	PT			INSULATED DOOR & FRAME, INSULATED GLAZING UNIT	PKG 1

HARDWARE PACKAGE 1
- 3 HINGES (NR PINS)
- 1 DEAD BOLT
- 1 PASSAGE SET
- 1 CLOSER
- 1 KICK PLATE
- 1 THRESHOLD (THERMALLY BROKEN)
- 1 WEATHERSTRIP
- 1 DOOR SWEEP

HARDWARE PACKAGE 2
- 3 HINGES
- 1 LOCK SET

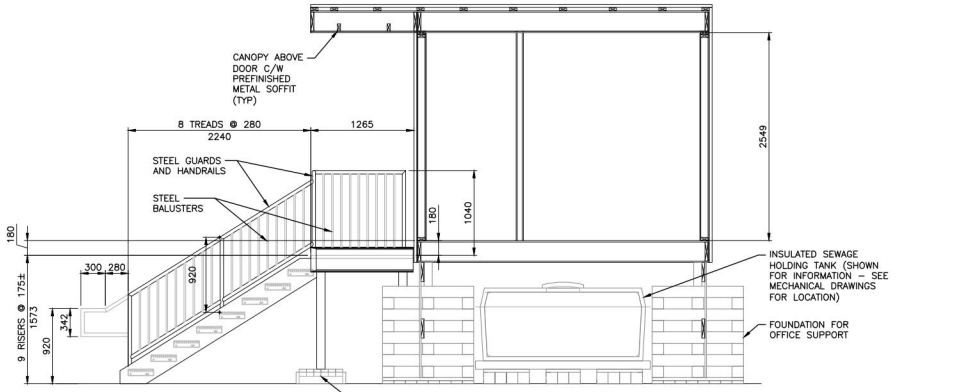
HARDWARE PACKAGE 3
- 3 HINGES
- 1 PRIVACY SET

ROOM FINISH SCHEDULE

ROOM No.	NAME	FLOOR MATERIAL	FLOOR FINISH	BASE	WALLS MATERIAL	WALLS FINISH	CEILINGS MATERIAL	CEILINGS FINISH	CEILINGS HEIGHT	REMARKS
200	MECHANICAL ROOM	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
201	LUNCH ROOM	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
202	WASHROOM , SHOWER	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
203	LOCKER ROOM	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
204	CLOSE	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
208	OFFICE	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
301	OFFICE	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
401	OFFICE	WOOD	VT	RB	GWB	PNT	GWB	PT	–	

ABBREVIATIONS

CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
EXT	EXTERIOR
HDR	HARDENER
HM	HOLLOW METAL
HR	HOUR
HWD	HARDWARE
GWB	GYPSUM WALL BOARD
LH	LEFT HAND
LP	LINER PANEL
MTL	METAL
NR	NON-REMOVABLE
NL	NARROW LITE
OH	OVERHEAD
PKG	PACKAGE
PREFIN	PREFINISHED
PT	PAINT
RH	RIGHT HAND
TEMP	TEMPERED GLASS
TBHM	THERMALLY BROKEN HOLLOW METAL
U/S	UNDERSIDE
VT	VINYL TILE



36 A11 SECTION

1:30

SCALE 1:25 METRES 0.5 0 0.5 1

SCALE 1:50 METRES 0 1

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DESIGN: JAA | REVIEWED BY: NA
DRAWN: PDR | CHECKED BY: WWD
DATE: NOVEMBER 2022
SCALE: NOTED

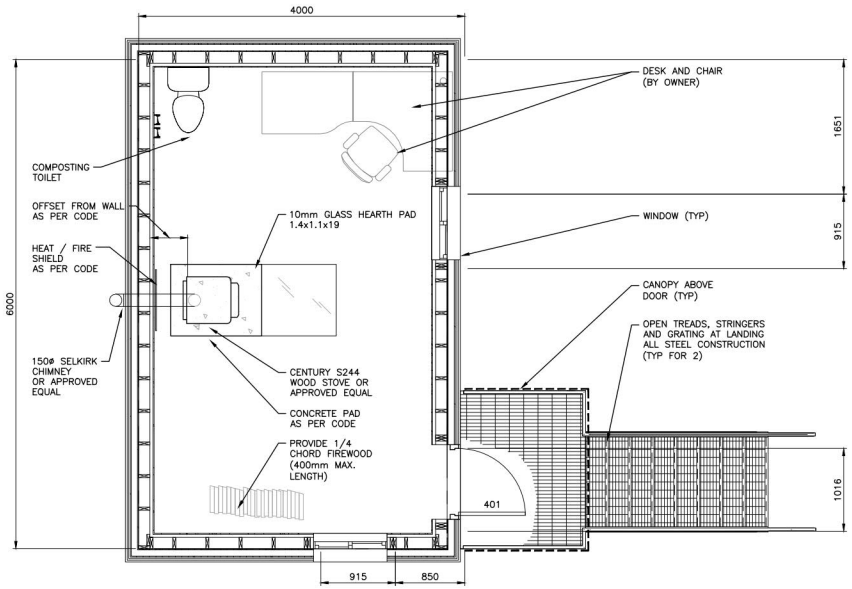
CITY OF IQALUIT
WASTE TRANSFER STATION

PRE-FABRICATED OFFICE FLOOR PLAN
PRE-FABRICATED SCALE HOUSE FLOOR PLAN

PROJECT NO. 19-9543

SHEET NO. WTS-A11

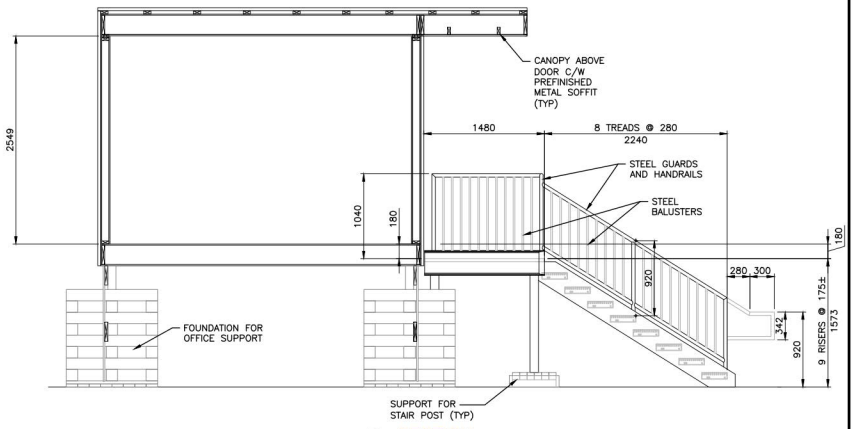
FILENAME: C:\USERS\SNAGSAPPVAN\LOCAL\TEMP\APWBUFSH_54571\19543-01-ARCH.DWG PLOTTED BY: SIMPSON, MARK
PLOT DATE: 2022-11-09 @ 11:45:14 AM PLOT SCALE: 1:25X4.4 PLOT STYLE: DILLON-STANDARD.CTB



PRE-FABRICATED ATTENDANT BUILDING FLOOR PLAN

1:30

NOTE: – REFER TO CIVIL DRAWINGS FOR ATTENDANT BUILDING



37 A12 SECTION 1:30

SCALE 1:25 METRES 0.5 0 0.5 1

SCALE 1:50 METRES 1 0 1

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7	TENDER	2022/06/14	K.B.
6	REVIEW	2021/09/24	K.B.
5	REVIEW	2021/08/25	K.B.
4	100% ISSUED FOR APPROVAL	2020/10/30	K.B.
3	90% REVIEW	2020/01/24	K.B.
2	50% REVIEW	2019/10/23	K.B.
1	30% REVIEW	2019/06/04	K.B.

DESIGN: JAA | REVIEWED BY: ND
DRAWN: MGS | CHECKED BY: WWD
DATE: NOVEMBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

PRE-FABRICATED ATTENDANT BUILDING FLOOR PLAN

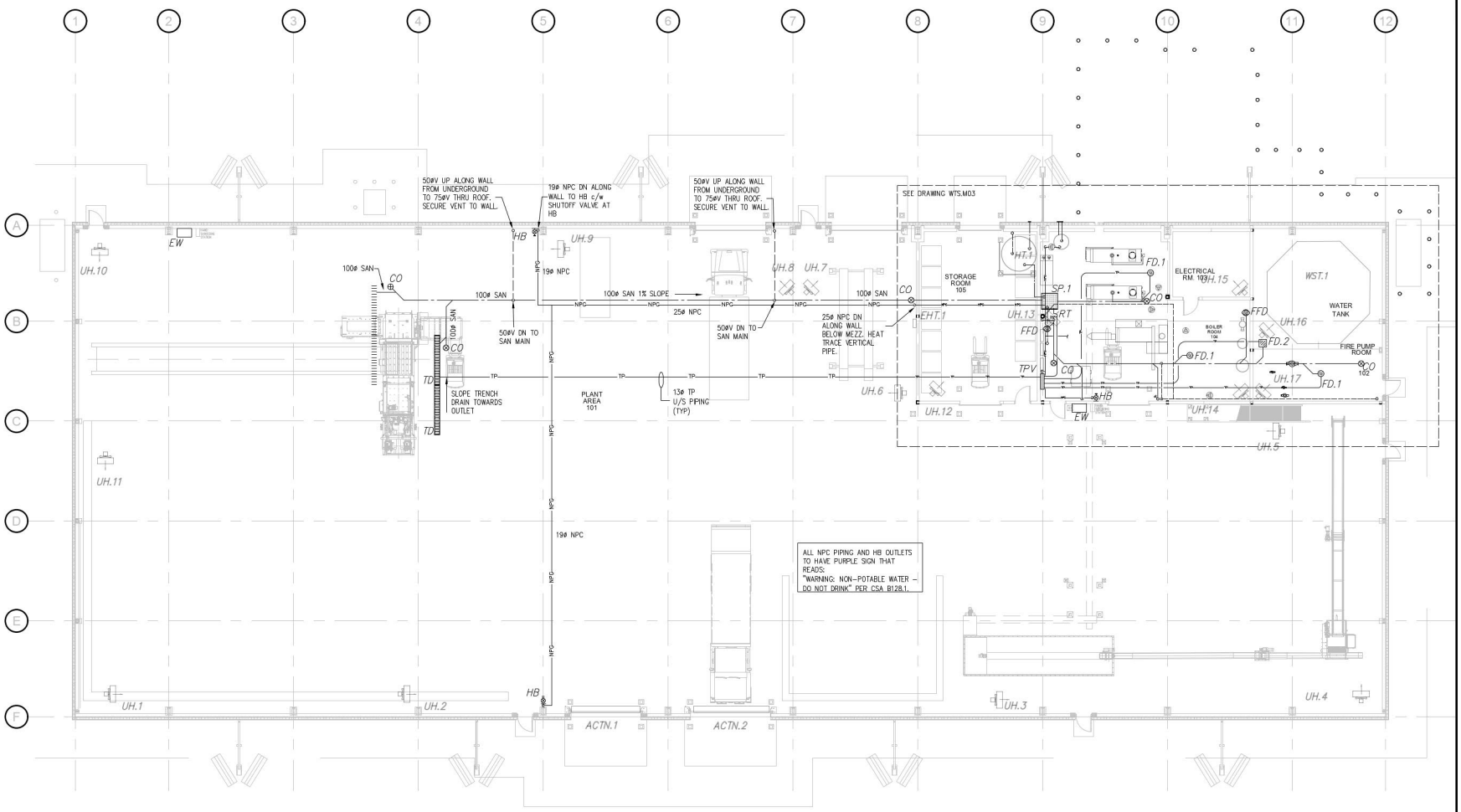
PROJECT NO. 19-9543

SHEET NO. WTS-A12

FILENAME: C:\USERS\SIMPSONM\APPDATA\LOCAL\TEMP\AC\WBR\RSI_5475.19543-01-ARCH.DWG PLOTTED BY: SIMPSON, MARK
PLOT DATE: 2022-11-09 @ 11:11:15 AM PLOT SCALE: 1:25X PLOT STYLE: BW.CTB(MONOCHROME)

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
— - - —	HOT WATER (HW)
—NPC—	NONPOTABLE COLD WATER (NPC)
— — —	SANITARY WASTE LINE (SAN)
———	SANITARY VENT (V)(VENT)
— - - —	SANITARY STORM (STORM)(RWL)
—TP—	TRAP PRIMER LINE (TP)
—FOS—	FUEL OIL SUPPLY (FOS)
—FOR—	FUEL OIL RETURN (FOR)
—GWS—	GLYCOL WATER SUPPLY (GWS)
—GWR—	GLYCOL WATER RETURN (GWR)
—HWS—	HEATING WATER SUPPLY (HWS)
—HWR—	HEATING WATER RETURN (HWR)
	PIPE DOWN (DN)
	PIPE UP (UP)
	CLEAN OUT (C.O.)
	SAN. WASTE "P"TRAP
	FLOOR DRAIN (FD)
	FUNNEL FLOOR DRAIN (FFD)
	SCUPPER FLOOR DRAIN (SFD)
	ROOF DRAIN (RD)
	SAN. VENT THRU ROOF (MIN.3")
	HOSE BIB (HB)
	PLUMBING FIXTURE
WC1	PLUMBING FIXTURE DESIGNATION
	SHUT-OFF VALVE
	BALL VALVE
	GLOBE VALVE
	PRESS. REDUCING VALVE (PRV)
	SOLENOID VALVE
	TEMP. & PRESS. RELIEF (T&P) ANGLE
	CHECK VALVE
	BALANCING VALVE
	STRAINER
	STRAINER c/w BLOW DOWN VALVE
	BACKFLOW PREVENTER
	PIPE UNION
	VACUUM BREAKER
	THERMOMETER
	PRESSURE GAUGE c/w PETCOCK
	AUTOMATIC AIR VENT (AAV)
	MANUAL AIR VENT (MAV)
	CIRCULATOR / PUMP
	THERMOSTAT (ELECTRONIC)
S/A	SUPPLY AIR
R/A	RETURN AIR
E/A	EXHAUST AIR
O/A	OUTSIDE AIR
	BALANCING DAMPER (BD)
	MOTORIZED DAMPER
	DUCT OFFSET
	DUCT UP (S/A)
	DUCT UP (R/A or E/A)
	DUCT DOWN (S/A)
	DUCT DOWN (R/A or E/A)
	DUCT WORK
	A/H UNIT HEATING COIL
	VERTICAL FIRE DAMPER (FD)
	HORIZONTAL FIRE DAMPER (FD)
	FLEXIBLE CONNECTION
A4 / 500	DIFFUSER/GRILLE DESIGNATION (SEE DIFFUSER/GRILLE SCHEDULE)
HWT.1	EQUIPMENT TAG
1099	ROOM NUMBER



1 / M01 PLUMBING LAYOUT – PLANT

1:125

Conditions of Use

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Iqaluit

DILLON CONSULTING

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5	REVIEW	2021/06/25	K.B.
4	100% ISSUED FOR APPROVAL	2020/12/02	K.B.
3	90% REVIEW	2020/01/24	K.B.
2	50% REVIEW	2019/10/23	K.B.
1	30% REVIEW	2019/06/04	K.B.

DESIGN	GH
REVIEWED BY	DLP
DRAWN	GH
CHECKED BY	KAM
DATE	OCTOBER 2022
SCALE	NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

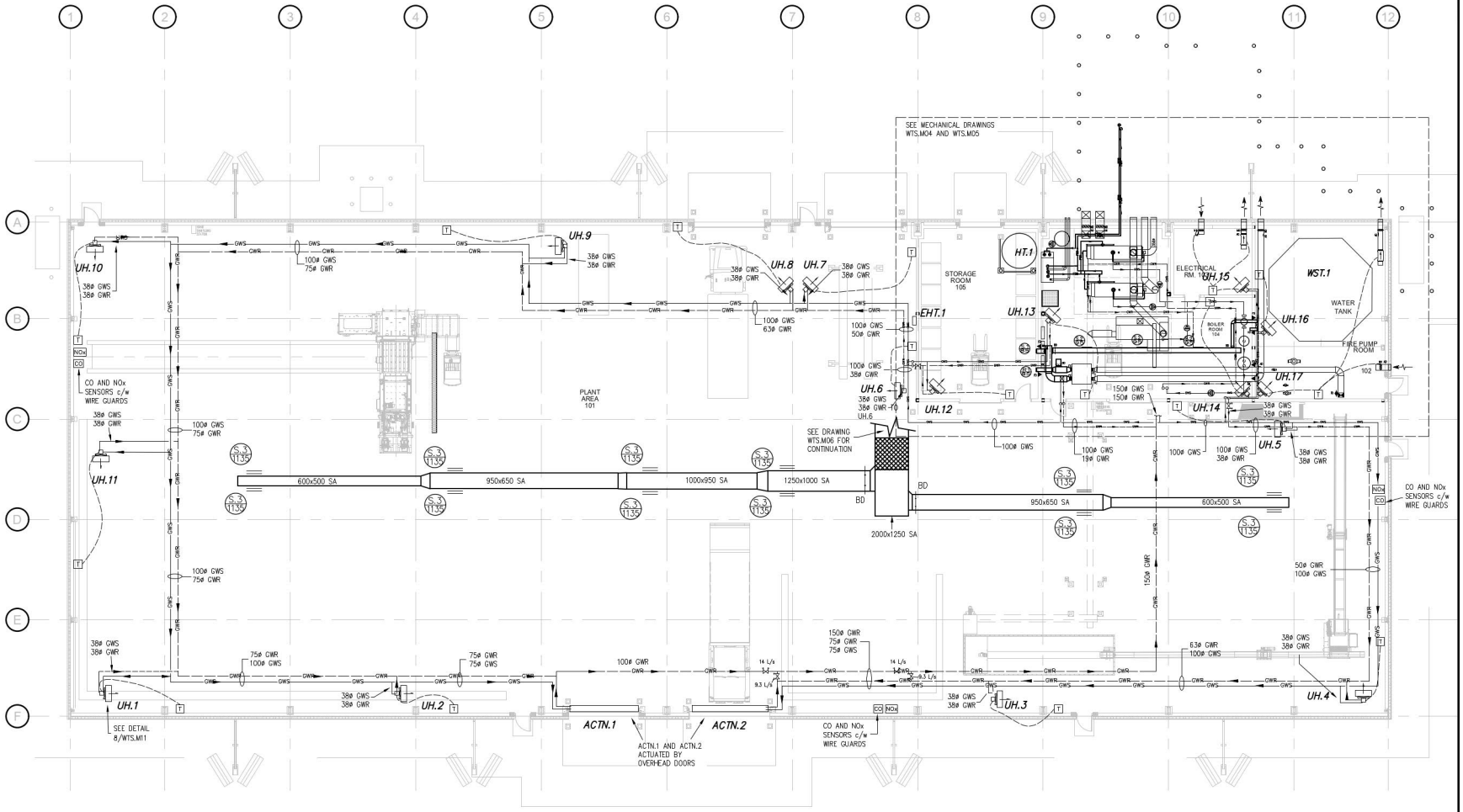
MECHANICAL LAYOUT - PLUMBING

PROJECT NO. 19-9543

SHEET NO. **WTS.M01**

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	
— - - —	HOT WATER	(HW)
—NPC—	NONPOTABLE COLD WATER	(NPC)
— — —	SANITARY WASTE LINE	(SAN)
———	SANITARY VENT	(V)(VENT)
— - - —	SANITARY STORM	(STORM)(RWL)
—TP—	TRAP PRIMER LINE	(TP)
—FOS—	FUEL OIL SUPPLY	(FOS)
—FOR—	FUEL OIL RETURN	(FOR)
—GWS—	GLYCOL WATER SUPPLY	(GWS)
—GWR—	GLYCOL WATER RETURN	(GWR)
—HWS—	HEATING WATER SUPPLY	(HWS)
—HWR—	HEATING WATER RETURN	(HWR)
	PIPE DOWN	(DN)
	PIPE UP	(UP)
	CLEAN OUT	(C.O.)
	SAN. WASTE "P"TRAP	
	FLOOR DRAIN	(FD)
	FUNNEL FLOOR DRAIN	(FFD)
	SCUPPER FLOOR DRAIN	(SFD)
	ROOF DRAIN	(RD)
	SAN. VENT THRU ROOF	(MIN.3")
	HOSE BIB	(HB)
	PLUMBING FIXTURE	
WC1	PLUMBING FIXTURE DESIGNATION	
	SHUT-OFF VALVE	
	BALL VALVE	
	GLOBE VALVE	
	PRESS. REDUCING VALVE	(PRV)
	SOLENOID VALVE	
	TEMP. & PRESS. RELIEF (T&P) ANGLE	
	CHECK VALVE	
	BALANCING VALVE	
	STRAINER	
	STRAINER c/w BLOW DOWN VALVE	
	BACKFLOW PREVENTER	
	PIPE UNION	
	VACUUM BREAKER	
	THERMOMETER	
	PRESSURE GAUGE c/w PETCOCK	
	AUTOMATIC AIR VENT	(AAV)
	MANUAL AIR VENT	(MAV)
	CIRCULATOR / PUMP	
T	THERMOSTAT (ELECTRONIC)	
S/A	SUPPLY AIR	
R/A	RETURN AIR	
E/A	EXHAUST AIR	
O/A	OUTSIDE AIR	
	BALANCING DAMPER	(BD)
	MOTORIZED DAMPER	
	DUCT OFFSET	
	DUCT UP (S/A)	
	DUCT UP (R/A or E/A)	
	DUCT DOWN (S/A)	
	DUCT DOWN (R/A or E/A)	
	DUCT WORK	
	A/H UNIT HEATING COIL	
	VERTICAL FIRE DAMPER	(FD)
	HORIZONTAL FIRE DAMPER	(FD)
	FLEXIBLE CONNECTION	
A4 / 500	DIFFUSER/GRILLE DESIGNATION (SEE DIFFUSER/GRILLE SCHEDULE)	
HWT.1	EQUIPMENT TAG	
1099	ROOM NUMBER	



1 M02 HVAC LAYOUT – PLANT
1:125

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1	30% REVIEW	2019/06/04	K.B.

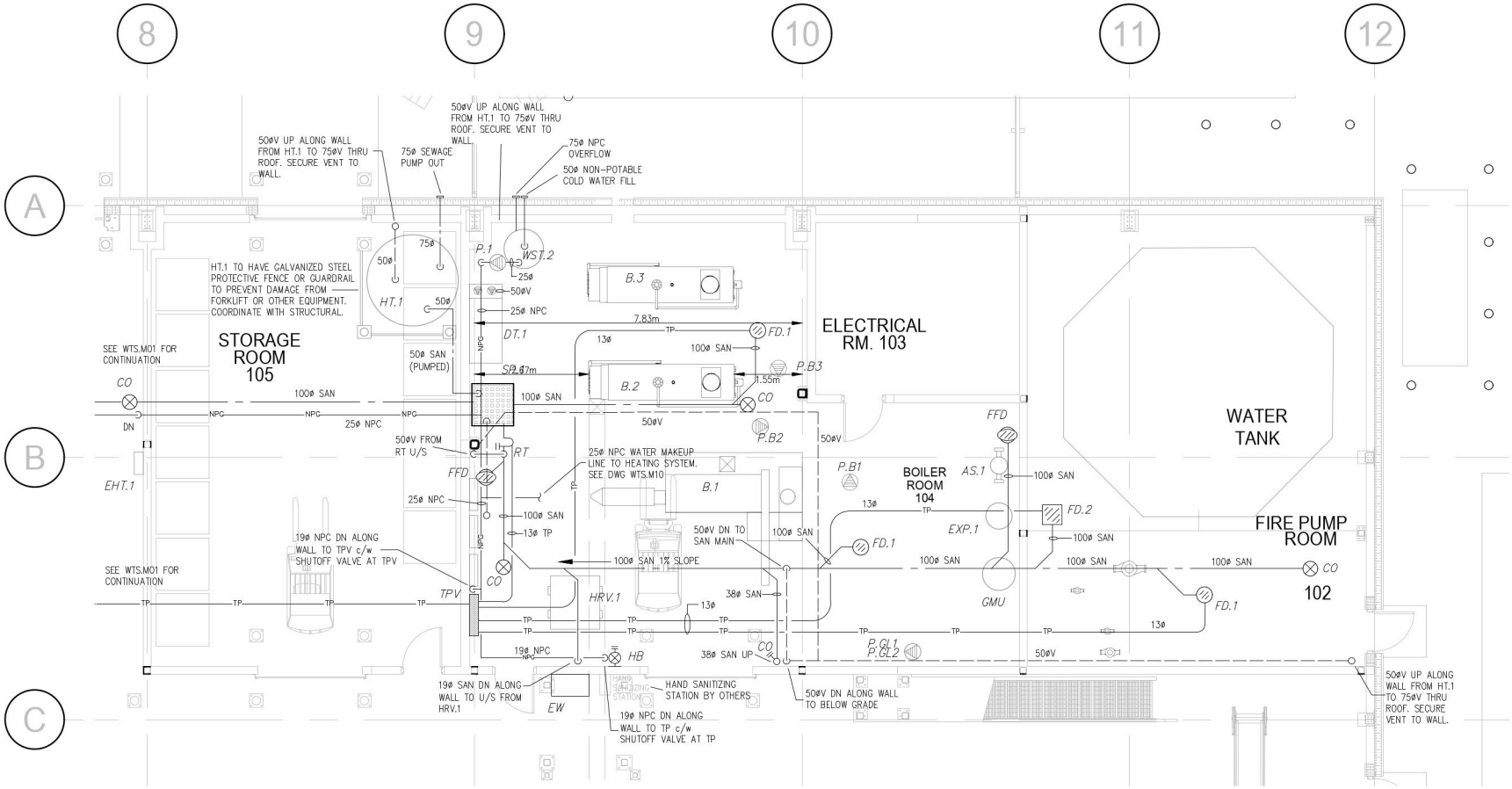
DESIGN: GH | REVIEWED BY: DLP
DRAWN: GH | CHECKED BY: KAM
DATE: OCTOBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

MECHANICAL LAYOUT - HVAC

PROJECT NO. 19-9543

SHEET NO. WTS.M02



1 M03 PLUMBING LAYOUT – BOILER ROOM

1:50

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1	30% REVIEW	2019/06/04	K.B.

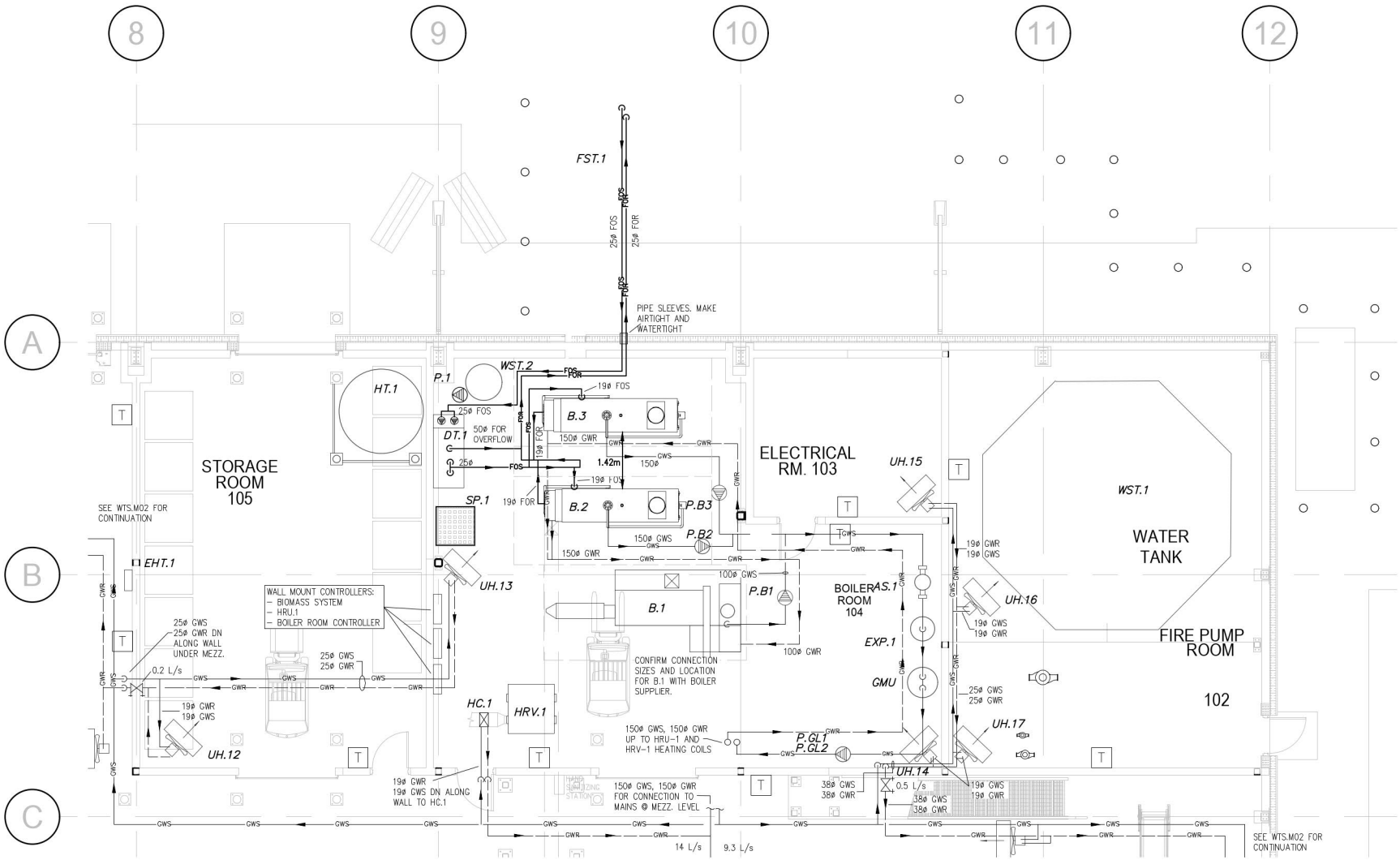
DESIGN	GH
REVIEWED BY	DLP
DRAWN	GH
CHECKED BY	KAM
DATE	OCTOBER 2022
SCALE	NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

LARGE SCALE BOILER ROOM PLUMBING LAYOUT

PROJECT NO. 19-9543

SHEET NO. WTS.M03



1 M04 HVAC PIPING LAYOUT – BOILER ROOM
1:50

Conditions of Use

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1	30% REVIEW	2019/06/04	K.B.

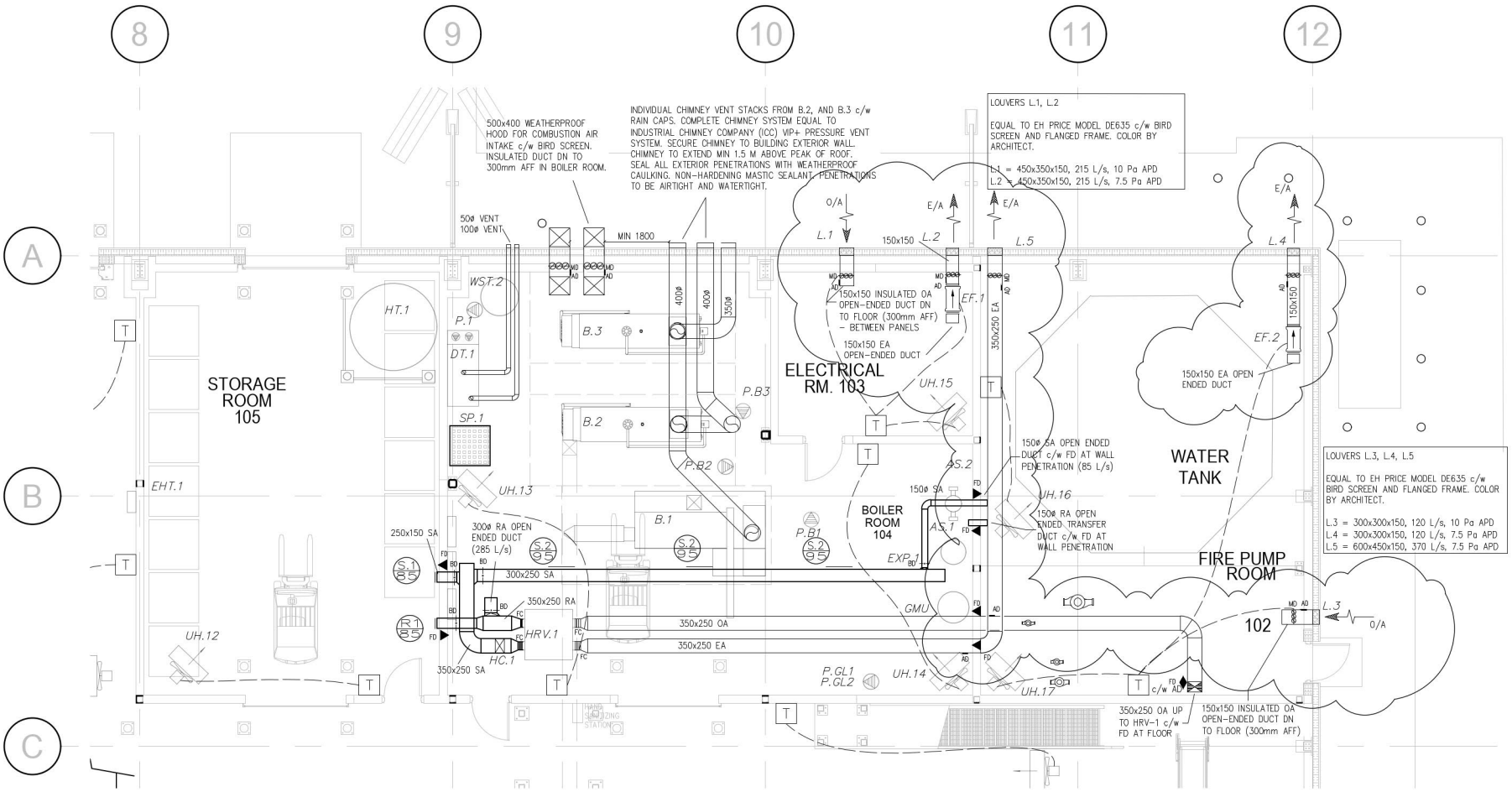
DESIGN: GH
REVIEWED BY: DLP
DRAWN: GH
CHECKED BY: KAM
DATE: OCTOBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

LARGE SCALE BOILER ROOM
HVAC PIPING LAYOUT

PROJECT NO. 19-9543

SHEET NO. WTS.M04



1 / M05 HVAC LAYOUT – BOILER ROOM

1:50

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1	30% REVIEW	2019/06/04	K.B.

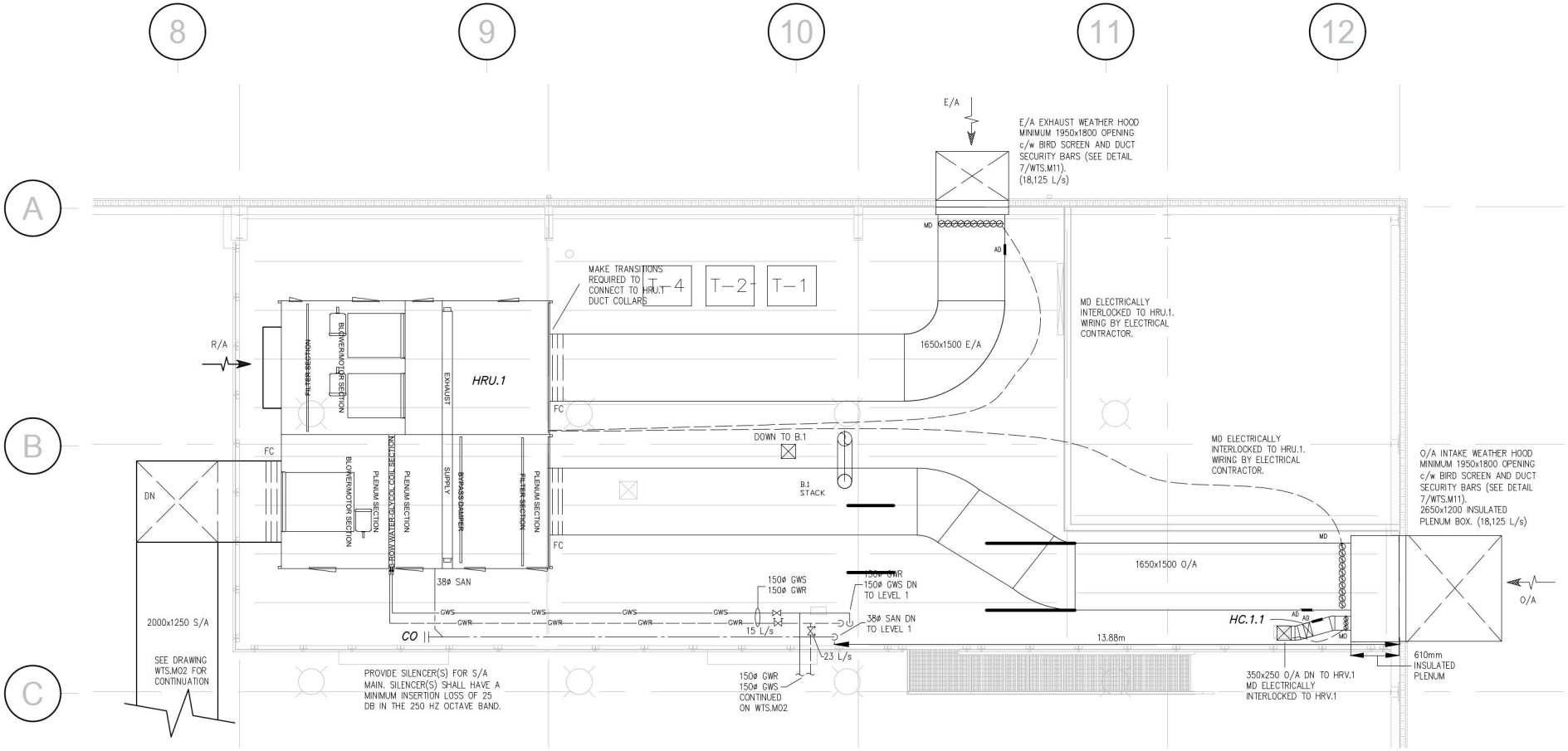
DESIGN: GH
REVIEWED BY: DLP
DRAWN: GH
CHECKED BY: KAM
DATE: OCTOBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

LARGE SCALE BOILER ROOM
HVAC LAYOUT

PROJECT NO. 19-9543

SHEET NO. WTS.M05



1 / M06 MECHANICAL LAYOUT – MEZZANINE

1:50

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1	30% REVIEW	2019/06/04	K.B.

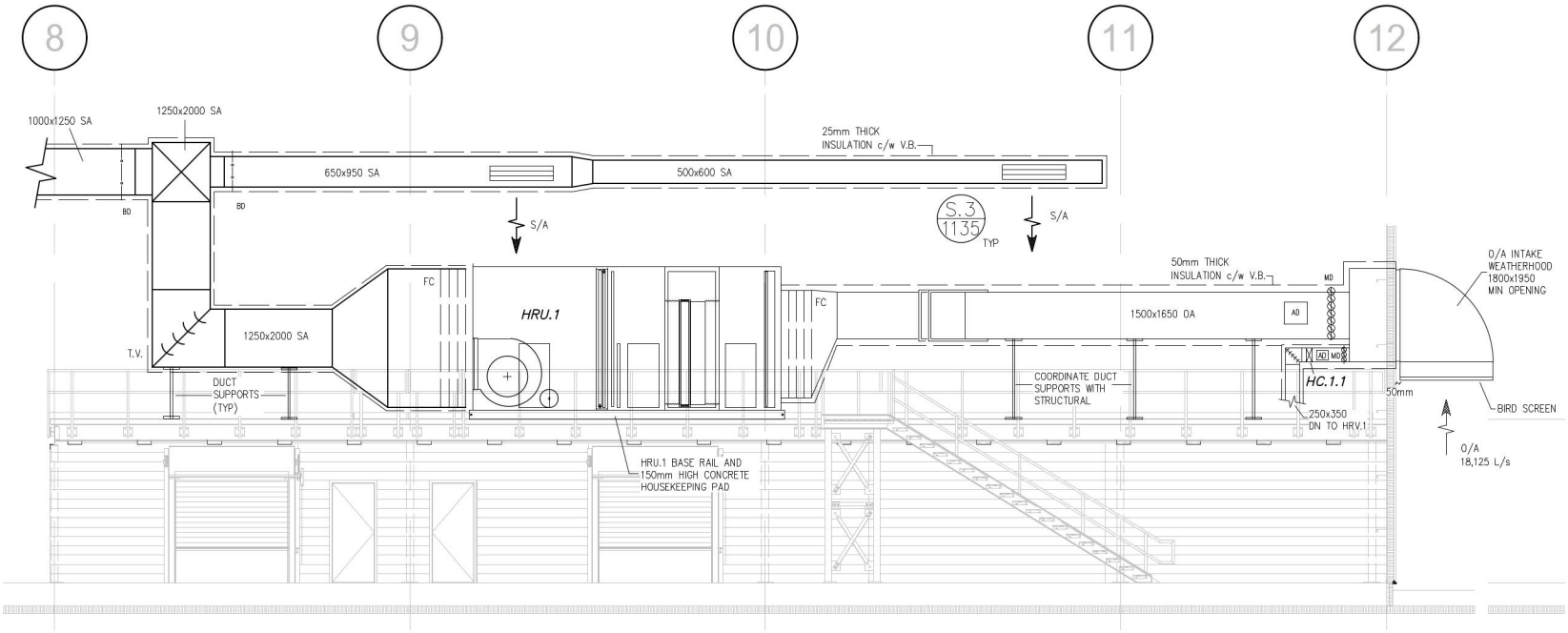
DESIGN	GH
REVIEWED BY	DLP
DRAWN	GH
CHECKED BY	KAM
DATE	OCTOBER 2022
SCALE	NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

MECHANICAL LAYOUT - MEZZANINE

PROJECT NO. 19-9543

SHEET NO. **WTS.M06**



1 / M07 MECHANICAL SECTION – MEZZANINE

1:50

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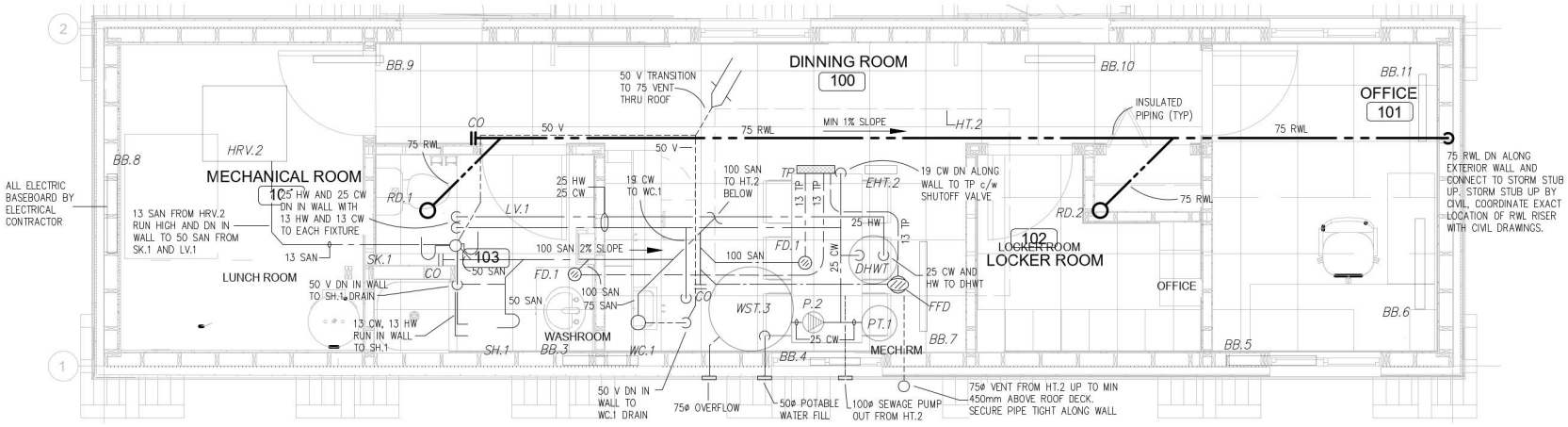
DESIGN: GH
REVIEWED BY: DLP
DRAWN: GH
CHECKED BY: KAM
DATE: OCTOBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

MECHANICAL SECTION - MEZZANINE

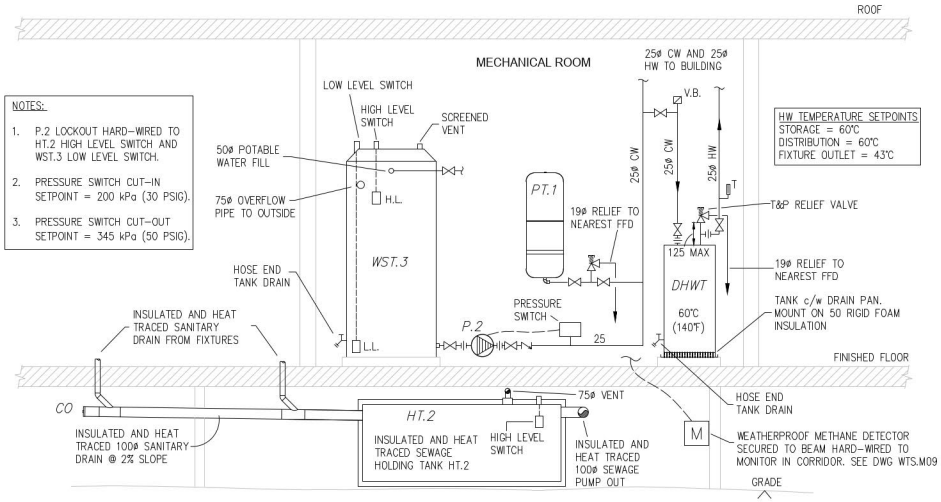
PROJECT NO. 19-9543

SHEET NO. **WTS.M07**



1 M08 PLUMBING LAYOUT – SITE OFFICE

1:25



NOTES:

1. P.2 LOCKOUT HARD-WIRED TO HT.2 HIGH LEVEL SWITCH AND WST.3 LOW LEVEL SWITCH.
2. PRESSURE SWITCH CUT-IN SETPOINT = 200 kPa (30 PSIG).
3. PRESSURE SWITCH CUT-OUT SETPOINT = 345 kPa (50 PSIG).

2 M08 PLUMBING SECTION – SITE OFFICE

1:25

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Iqaluit

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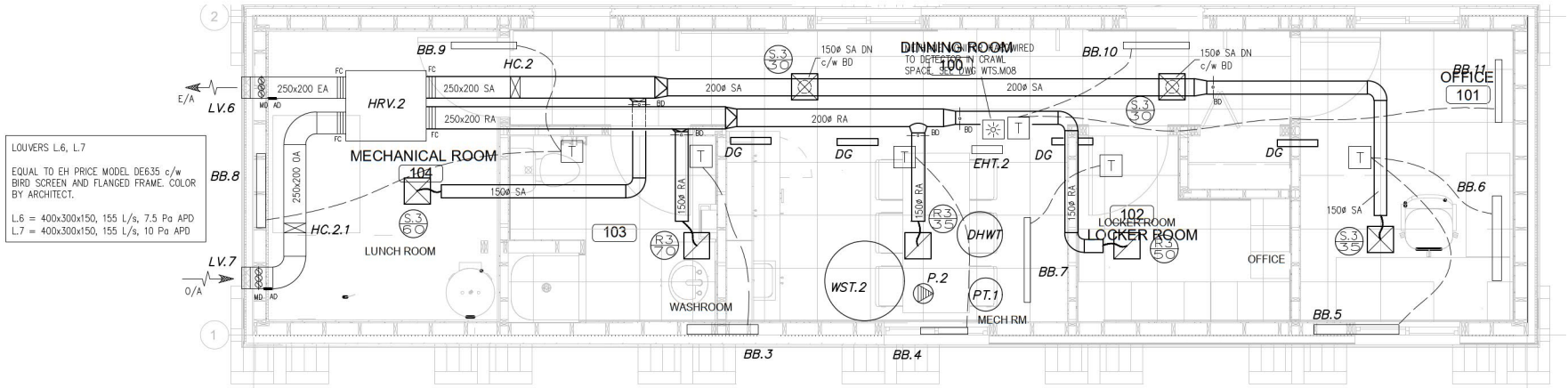
DESIGN	GH
REVIEWED BY	DLP
DRAWN	GH
CHECKED BY	KAM
DATE	OCTOBER 2022
SCALE	NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

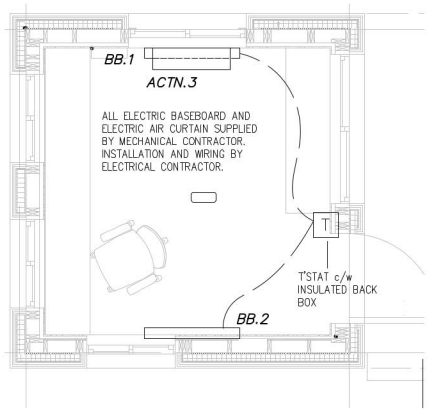
SITE OFFICE - PLUMBING LAYOUT

PROJECT NO. 19-9543

SHEET NO. **WTS.M08**



1 M09 HVAC LAYOUT – SITE OFFICE
1:25



2 M09 MECHANICAL LAYOUT – SCALE HOUSE
1:25

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3	90% REVIEW	2020/01/24	K.B.
2	50% REVIEW	2019/10/23	K.B.
1	30% REVIEW	2019/06/04	K.B.

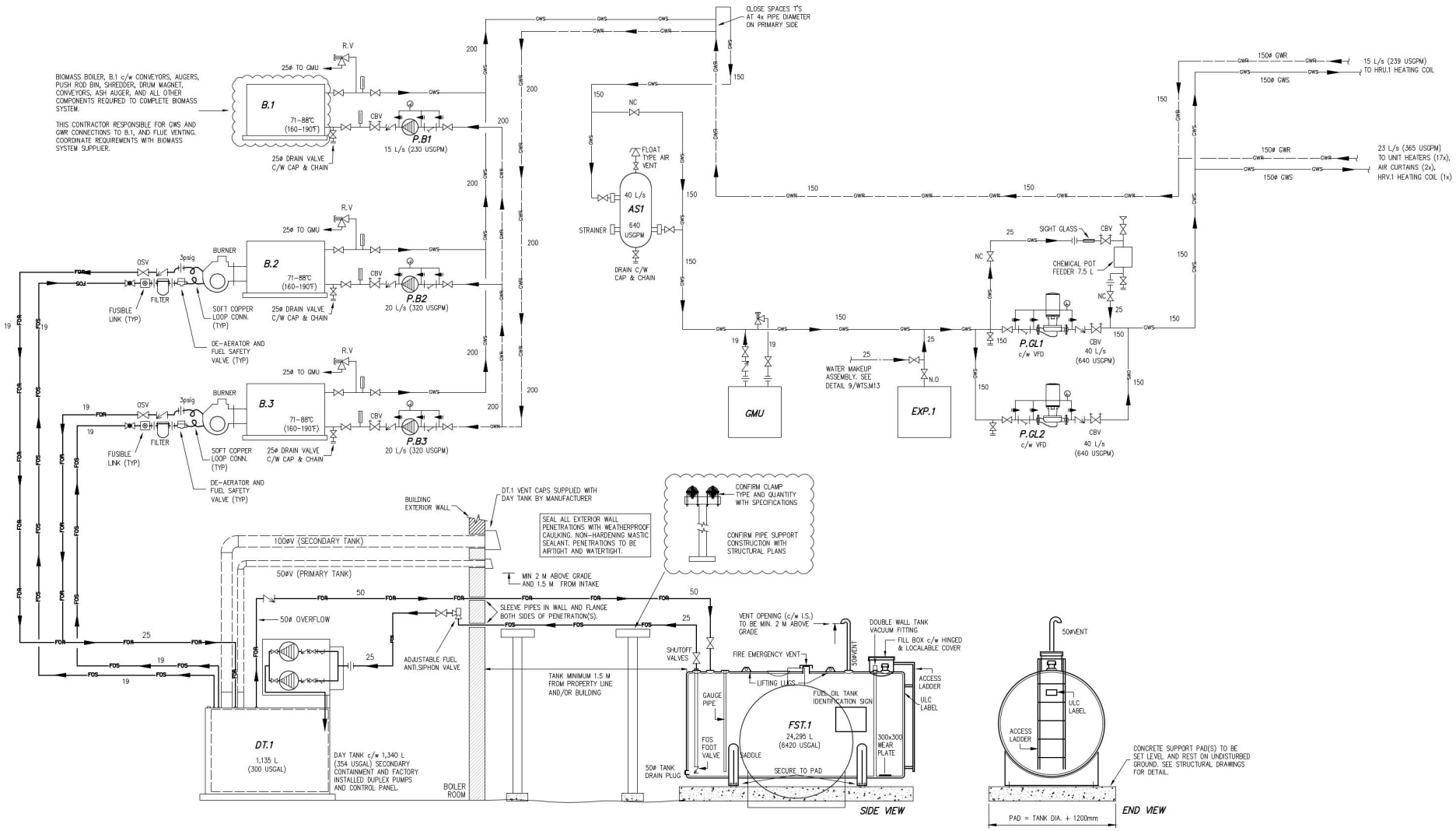
DESIGN: GH
REVIEWED BY: DLP
DRAWN: GH
CHECKED BY: KAM
DATE: OCTOBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

SITE OFFICE AND SCALE HOUSE
HVAC LAYOUT

SHEET NO. **WTS.M09**



1 / M10 #2 FUEL OIL SYSTEM PIPING SCHEMATIC

N.T.S.

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DESIGN: GH | REVIEWED BY: DLP
DRAWN: GH | CHECKED BY: KAM
DATE: OCTOBER 2022
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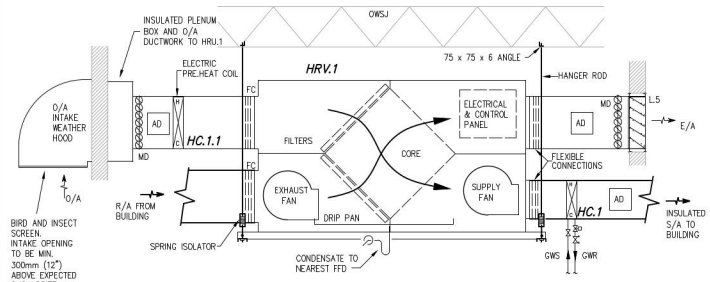
CITY OF IQALUIT
WASTE TRANSFER STATION

HYDRONIC HEATING SYSTEM FLOW DIAGRAM

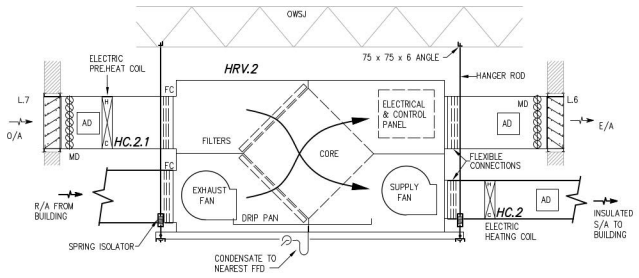
PROJECT NO. 19-9543

SHEET NO. WTS.M10



1 . CONFIRM CONFIGURATION AND CONNECTION SIZES WITH UNIT MANUFACTURER.
2 . CONFIRM DUCT AND PIPE SIZES WITH DRAWINGS.
3 . CONFIRM STRUCTURE WITH STRUCTURAL DRAWINGS.

1 M11 HRV.1 DETAIL (BOILER ROOM)
N.T.S.



1 . CONFIRM CONFIGURATION AND CONNECTION SIZES WITH UNIT MANUFACTURER.
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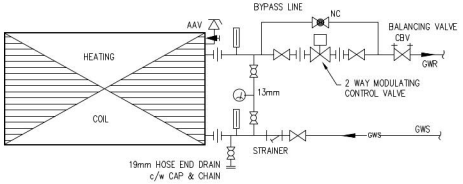
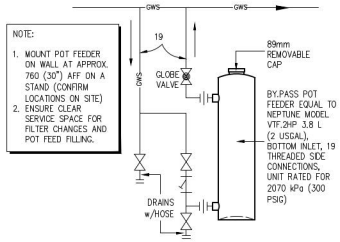
3 . CONFIRM STRUCTURE WITH STRUCTURAL DRAWINGS.

2 M11 HRV.2 DETAIL (SITE OFFICE)
N.T.S.

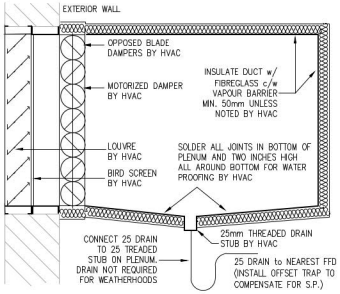
3 M11 NOT USED
NTS



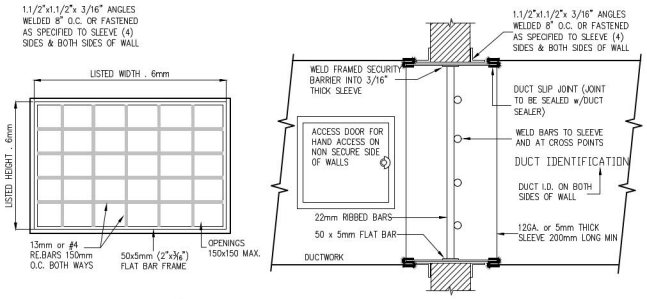
4 M11 HRU.1/HRV.1 GLYCOL HEATING COIL
N.T.S.



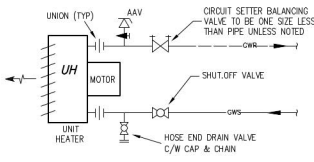
5 M11 CHEMICAL POT FEEDER
N.T.S.



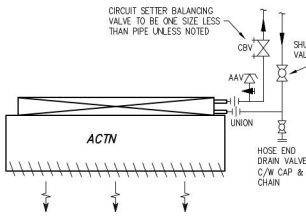
6 M11 PLENUM DETAIL
N.T.S.



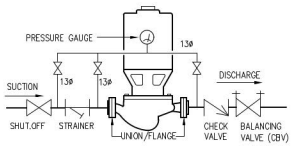
7 M11 DUCT SECURITY BARS
N.T.S.



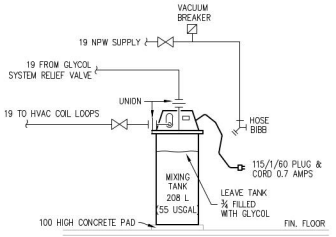
8 M11 UNIT HEATER (UH.X)
N.T.S.



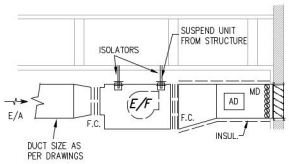
9 M11 AIR CURTAIN (ACTN.1, ACTN.2)
N.T.S.



10 M11 IN-LINE CIRCULATOR
N.T.S.



11 M11 P. GLYCOL MIXING TANK (GLY.1)
N.T.S.



12 M11 INLINE EXHAUST FAN (EF.1, EF.2)
N.T.S.

13 M11 NOT USED
N.T.S.

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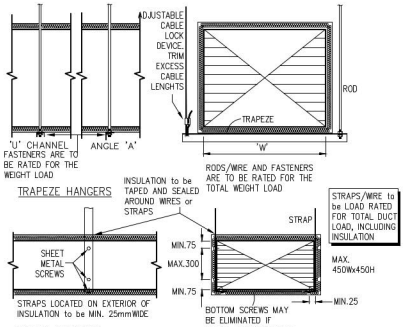
DRAWN: GH | CHECKED BY: KAM
DATE: OCTOBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

MECHANICAL DETAILS

SHEET NO. **WTS.M11**



NOTE:
HORIZONTAL DUCTS SHALL HAVE A SUPPORT WITHIN 0.6M of EACH ELBOW and 1.2M OF EACH BRANCH INTERSECTION

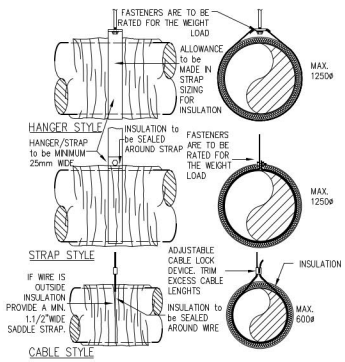
HANGER STRAPS or RODS

DUCT 'W' IN. (mm)	ROD/STRAP SIZE (MIN) IN. (mm)	TRAPEZE ANGLE/CHANNEL SIZE (MIN) IN. (mm)	MAX.LOAD (*)LBS.(kg)	MAX. SPACING IN. (mm)
4".18" (100.450)	1"(25)x22ga STRAP 1/4" (6) ROD	1" (25) x 22ga STRAP 1"H(25) x 1"W(25)x 16ga 'C'	80 (36) 80 (36)	120" (3000)
19".30"(475.750)	1/4" (6) ROD	1"(25)x 1"(25)x 1/8"(3) 'A' 1"H(25) x 1.5/8"W(41)x12ga 'C'	150 (68) 150 (68)	120" (3000)
31".42"(925.1050)	1/4" (6) ROD	1.1/2"(38)x 1.1/2"(38)x 1/8"(3) 'A' 1.3/8"H(34) x 1.5/8"W(41)x12ga 'C'	350 (159) 320 (145)	120" (3000)
43".60"(1075.1500)	3/8" (10) ROD	1.1/2"(38)x 1.1/2"(38)x 1/4"(6) 'A' 1.3/8"H(34) x 1.5/8"W(41)x12ga 'C'	610 (277) 490 (223)	96" (2400)
61".82"(1525.2050)	3/8" (10) ROD	2"(50)x 2"(50)x 1/4"(6) 'A' 2.7/16"H(61) x 1.5/8"W(41)x12ga 'C'	1060 (481) 790 (359)	96" (2400)
83".94"(2075.2350)	3/8" (10) ROD	2.1/2"(63)x 2.1/2"(63)x 1/4"(6) 'A' 3.1/4"H(82) x 1.5/8"W(41)x12ga 'C'	1400 (636) 1060 (482)	96" (2400)
94".120"(2375.3000)	3/8" (10) ROD	3"(75)x 3"(75)x 1/4"(6) 'A' 3.1/4"H(82) x 1.5/8"W(41)x12ga 'C'	2510 (1140) 1220 (555)	96" (2400)

120" (3000) OR GREATER REFER TO SMACNA TABLE 5.3

(*) MAXIMUM LOAD TRAPEZE . LOW END of DUCT SIZE to HIGH END of SIZE RANGE.
ALL RATING TO MEET SMACNA TABLE 5.3 GUIDE LINES

1 M12 SQ. DUCT SUPPORT
N.T.S.

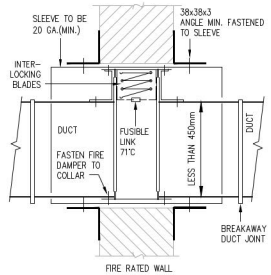


HANGER STRAPS or RODS

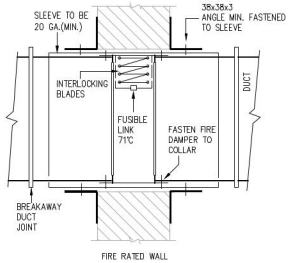
MAX. DUCT Ø IN. (mm)	QUANTITY/SIZE IN. (mm)	MAX.LOAD LBS.(kg)	MAX. SPACING IN. (mm)
4".26" (100.650)	(1) 1" (25) x 22ga STRAP	260 (118)	120" (3000)
27".36"(675.900)	(1) 1" (25) x 18ga STRAP	420 (190)	120" (3000)
37".50"(925.1250)	(1) 1" (25) x 16ga STRAP	700 (317)	120" (3000)
60 (1500)	(2)3/8"(10) Ø RODS, 18ga BAND	1320 (598)	96" (2400)
84+ (2100)	(2)1/2"(12) Ø RODS, 16ga BAND	2500 (1133)	96" (2400)

NOTE:
HORIZONTAL DUCTS SHALL HAVE A SUPPORT WITHIN 0.6M of EACH ELBOW and 1.2M OF EACH BRANCH INTERSECTION

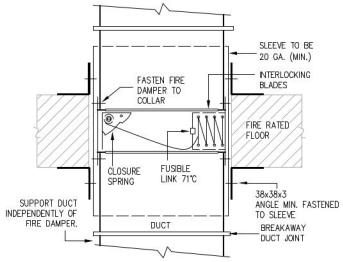
2 M12 RD. DUCT SUPPORT
N.T.S.



3 M12 VERTICAL FIRE DAMPER
N.T.S.

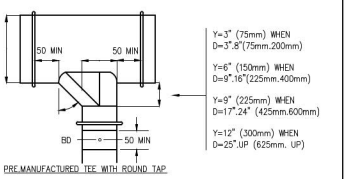


4 M12 VERTICAL FIRE DAMPER
N.T.S.



5 M12 HORIZONTAL FIRE DAMPER
N.T.S.

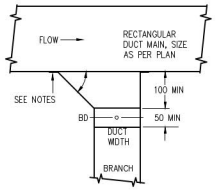
NOTES FOR ALL FITTINGS:
1. STITCH WELD ON 4" (100mm) CENTRES.
2. SPOT WELD ON 2" (50mm) CENTRES.
3. SCREW ON 4" (100mm) CENTRES.
4. TACK WELD ON 4" (100mm) CENTRES AND SEAL



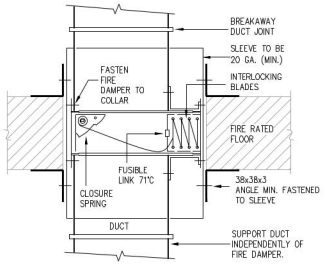
PRE.MANUFACTURED TEE WITH ROUND TAP

6 M12 DUCT TAKEOFF (ROUND)
N.T.S.

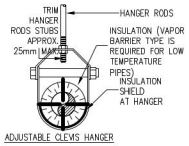
NOTES FOR ALL FITTINGS:
1. STITCH WELD ON 4" (100mm) CENTRES AND SEAL.
2. SPOT WELD ON 2" (50mm) CENTRES AND SEAL.
3. SCREW ON 4" (100mm) CENTRES AND SEAL.
4. TACK WELD ON 4" (100mm) CENTRES AND SEAL



7 M12 SIDE OF DUCT TAKEOFF
N.T.S.



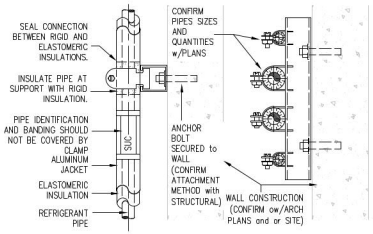
8 M12 HORIZONTAL FIRE DAMPER
N.T.S.



ADJUSTABLE CLEVIS HANGER

NOTE:
SEE SPECIFICATIONS FOR DETAILED INSULATION TYPES

9 M12 TYPICAL PIPE SUPPORT
N.T.S.



10 M12 WALL PIPE SUPPORT
N.T.S.

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MECHANICAL DETAILS

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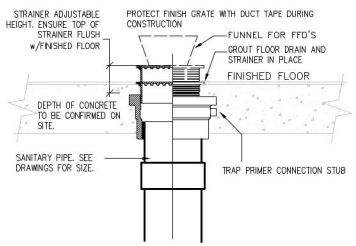
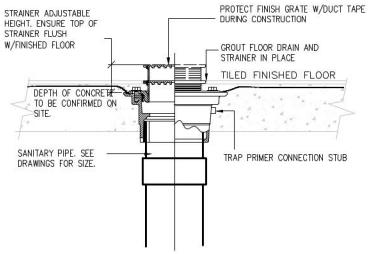
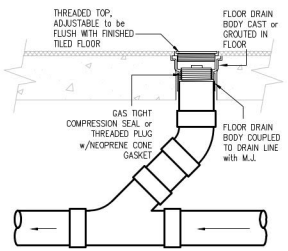
SHEET NO. WTS.M12



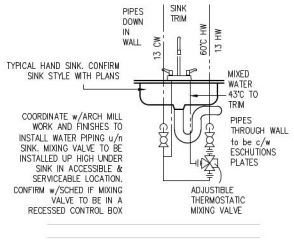
1 M13 FUNNEL FLOOR DRAIN (FFD)
N.T.S.



2 M13 FLOOR DRAIN (FD)
N.T.S.



3 M13 FLOOR CLEANOUT (CO)
N.T.S.

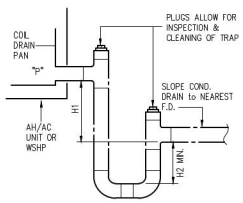


4 M13 SINK DETAIL
N.T.S.

5 M13 NOT USED
N.T.S.

NOTE:

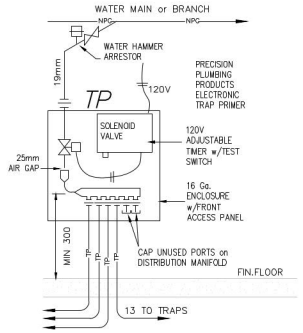
APPLICABLE TO HEAT PUMPS AND AIR HANDLERS.



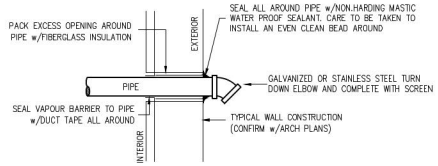
STATIC PRESSURE

"P" PRESSURE (KPA)	POSITIVE "P" (DISCHARGE) H1 (mm)	POSITIVE "P" (DISCHARGE) H2 (mm)	NEGATIVE "P" (SUCTION) H1 (mm)	NEGATIVE "P" (SUCTION) H2 (mm)
0.12	109	74	15	18
0.25	127	84	18	38
0.4	145	91	18	56
0.5	165	102	20	76
0.62	183	112	23	94
0.75	203	122	23	114
0.87	221	137	25	132
1.0	241	140	28	152
1.12	259	150	30	173
1.25	279	160	33	191
1.4	300	168	33	211
1.5	318	178	36	229

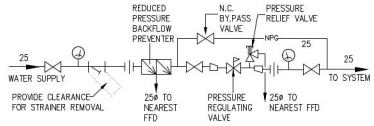
6 M13 CONDENSATE TRAP OFFSET
N.T.S.



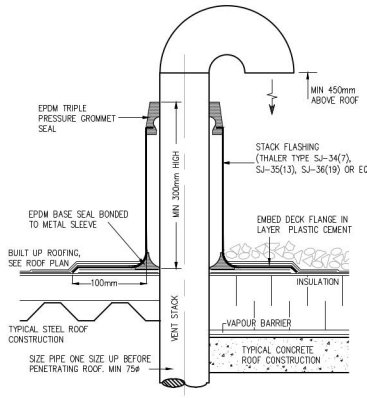
7 M13 TRAP SEAL PRIMER VALVE
N.T.S.



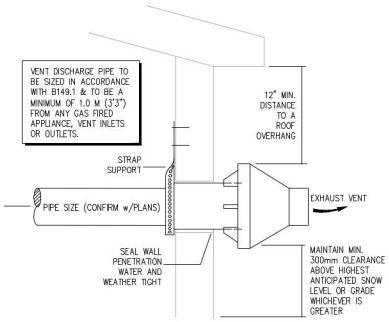
8 M13 PIPE PENETRATION DETAIL
N.T.S.



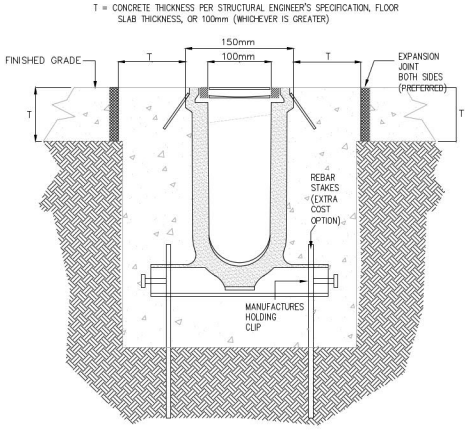
9 M13 WATER MAKE-UP DETAIL
N.T.S.



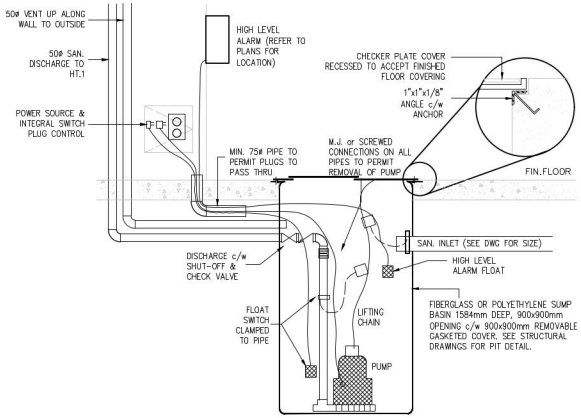
10 M13 PLUMBING VENT STACK
N.T.S.



11 M13 SIDEWALL VENT
N.T.S.



12 M13 TRENCH DRAIN
N.T.S.



13 M13 SEWAGE LIFT PUMP (SP.1)
N.T.S.

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Iqaluit

DILLON CONSULTING

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6	REVIEW	2021/09/24	K.B.
5	REVIEW	2021/06/25	K.B.
4	100% ISSUED FOR APPROVAL	2020/12/30	K.B.
3	90% REVIEW	2020/01/24	K.B.
2	50% REVIEW	2019/10/23	K.B.
1	30% REVIEW	2019/06/04	K.B.

DESIGN: GH
REVIEWED BY: DLP
DRAWN: GH
CHECKED BY: KAM
DATE: OCTOBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

MECHANICAL DETAILS

PROJECT NO. 19-9543

SHEET NO. **WTS.M13**

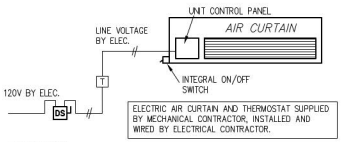
1 M14 AIR CURTAIN CONTROL (ELEC)

N.T.S.

LEGEND

SYMBOL	POWER	DESCRIPTION
DS	120V	DISCONNECT SWITCH (BY ELECTRICAL CONTRACTOR)
T	120V	WALL-MOUNTED THERMOSTAT

SCHEMATIC



SEQUENCE

THE UNIT STARTED AND STOPPED MANUALLY BY THE OPERATOR.

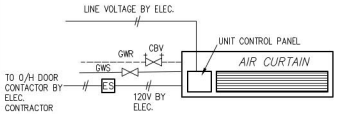
2 M14 AIR CURTAIN CONTROL (PG)

N.T.S.

LEGEND

SYMBOL	POWER	DESCRIPTION
	120V	LINE VOLTAGE WIRING (2 WIRE), ELECTRICAL
	–	MANUAL SHUT-OFF VALVE, BY MECH
ES	LV	END SWITCH (SUPPLIED AND INSTALLED BY ELEC. CONTRACTOR)

SCHEMATIC



SEQUENCE

WHEN THE DOOR IS FULLY OPENED, THE DOOR MOUNTED SWITCH CLOSES AND THE UNIT STARTS.

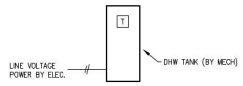
3 M14 DHW TEMPERATURE CONTROL

N.T.S.

LEGEND

SYMBOL	POWER	DESCRIPTION
	120V	HIGH VOLTAGE WIRING (2 WIRE), ELECTRICAL
T	24V	THERMOSTAT BY UNIT MFGR (MECH)
	–	TEMPERATURE PROBE (SHORT)

SCHEMATIC



SEQUENCE

BUILT-IN AQUASTAT CYCLES TO MAINTAIN TANK TEMPERATURE AT SETPOINT (INITIALLY 60 ℃).

4 M14 GAS DETECTION

N.T.S.

LEGEND

SYMBOL	DESCRIPTION
	ELECTRICAL WIRING (2 WIRE), ELECTRICAL
	GAS MONITOR w/ LIGHT & BUZZER
S	GAS SENSOR, MECHANICAL

SCHEMATIC

SEQUENCE

UNIT TO HAVE LOW LEVEL ALARM IF CO CONCENTRATION EXCEEDS 50 PPM OR NOX CONCENTRATION EXCEEDS 1 PPM.
UNIT TO HAVE HIGH LEVEL ALARM IF CO CONCENTRATION EXCEEDS 400 PPM OR NOX CONCENTRATION OF 10 PPM.

HRU.1 TO RUN CONTINUOUSLY AT LOW SPEED IN OCCUPIED MODE. NOX AND CO DETECTORS ENABLE HRU.1 TO RUN AT HIGH SPEED WHEN GAS IS DETECTED IN THE SPACE. HRU.1 SHALL RUN AT HIGH SPEED UNTIL GAS LEVELS DROP BELOW LOW LIMIT FOR MIN. 5 MINUTES (ADJUSTABLE).

CO SENSOR EQUAL TO SIEMENS EVIKON MODEL E2630-CO.
NOx SENSOR EQUAL TO SIEMENS EVIKON MODEL E2630-NO2-230.

HRU.1 TO RUN CONTINUOUSLY TO MAINTAIN TEMPERATURE. NOX AND CO DETECTORS ENABLE HRU.1 TO RUN AT HIGH SPEED WHEN GAS IS DETECTED IN THE SPACE. HRU.1 SHALL RUN AT HIGH SPEED UNTIL GAS LEVELS DROP BELOW LOWER LIMIT FOR MIN. 5 MINUTES (ADJUSTABLE).

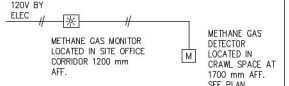
5 M14 METHANE DETECTOR

N.T.S.

LEGEND

SYMBOL	CONTROL POINT	POWER	DESCRIPTION
	–	120V	ELECTRICAL WIRING (2 WIRE), ELECTRICAL
	–	120V	GAS MONITOR WITH LIGHT & BUZZER.
M	–	120V	METHANE GAS SENSOR, MECHANICAL.

SCHEMATIC

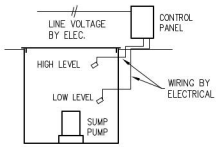


SEQUENCE

UNIT TO HAVE LOW LEVEL ALARM IF METHANE GAS CONCENTRATION EXCEEDS 10% LEL (LOWER EXPLOSIVE LIMIT). UNIT TO SOUND HIGH ALARM AT 20% LEL.

6 M14 SUMP PUMP CONTROL

SCHEMATIC



SEQUENCE

THE LOW LEVEL FLOAT OPERATES THE PUMP.
THE HIGH LEVEL FLOAT PROVIDES AN ALARM AT THE PUMP CONTROL PANEL IF WATER LEVEL OF THE PIT REACHES THIS LEVEL.

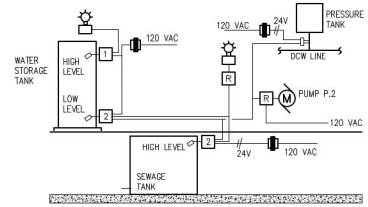
7 M14 SITE OFFICE WATER CONTROL

N.T.S.

LEGEND

SYMBOL	POWER	DESCRIPTION
	24V	LOW VOLTAGE WIRING (2 WIRE), MECH
	120V	LINE VOLTAGE WIRING (2 WIRE), ELECTRICAL
1		SINGLE POLE FLOAT SWITCH
2		DOUBLE POLE FLOAT SWITCH
	24 V	ALARM LIGHT
	–	SINGLE POLE PRESSURE SENSOR
	120V-24V	ELECTRICAL TRANSFORMER
R	120V	ELECTRICAL RELAY SWITCH
	–	SINGLE PHASE MOTOR

SCHEMATIC

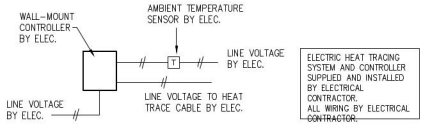


SEQUENCE

PUMP P-2 IS NORMALLY ENERGIZED.
THE TWO POLE FLOAT SWITCHES HAVE ONE NC CONTACT AND ONE NO CONTACT. THE NO CONTACTS ARE WIRED IN PARALLEL AND IF EITHER ONE CLOSES DUE THE THE FLOAT POSITION BEING TOO HIGH (HOLDING TANK) OR TOO LOW (WATER TANK) THE WARNING LIGHT IN THE CORRIDOR ILLUMINATES.
THE TWO POLE NC CONTACTS IN THE FLOAT SWITCHES ARE WIRED IN SERIES WITH THE NO CONTACT IN THE PRESSURE SWITCH. UNLESS ALL THREE (WATER ABOVE LOW LIMIT, SEWAGE BELOW HIGH LIMIT, WATER PRESSURE BELOW SET POINT) ARE CLOSED THE PUMP DOES NOT RUN.
THE HIGH LEVEL SWITCH IN THE WATER TANK CLOSES WHEN THE TANK IS FULL, ILLUMINATING A LIGHT INSTALLED AT THE FILL CONNECTION OUTSIDE.

8 M14 ELECTRIC HEAT TRACING CONTROL

N.T.S.



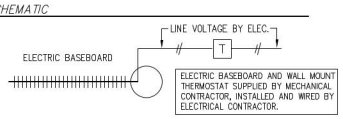
SEQUENCE

THE BUILT IN CONTROLLER MODULATES THE HEAT OUTPUT TO MAINTAIN MINIMUM PIPE SURFACE TEMPERATURE SETPOINT (INITIALLY AT 5 ℃).

9 M14 ELECTRIC BASEBOARD CONTROL

N.T.S.

SCHEMATIC

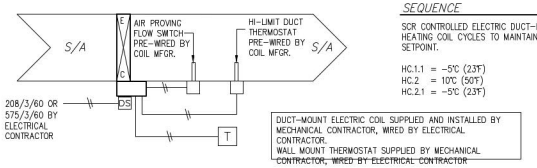


SEQUENCE

THE BUILT-IN THERMOSTAT CYCLES THE HEAT TO MAINTAIN SETPOINT.

10 M14 DUCT-MOUNTED ELECTRIC HEATNG COIL

N.T.S.



SEQUENCE

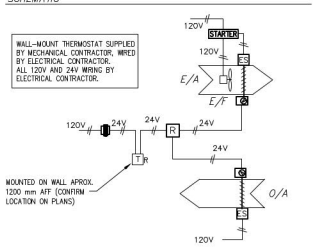
SCR CONTROLLED ELECTRIC DUCT-MOUNTED HEATING COIL CYCLES TO MAINTAIN TEMPERATURE SETPOINT.

HC.1.1 = -5℃ (23℉)
HC.2 = 10℃ (50℉)
HC.2.1 = -5℃ (23℉)

11 M14 EXHAUST FAN CONTROL

N.T.S.

SCHEMATIC



LEGEND

TAG	SYMBOL	CONTROL POINT	PNEU.(P) ELEC.(E)	POWER	DESCRIPTION
.		–	E	–	ELECTRICAL WIRING (2 WIRE), ELEC
.	STARTER	–	E	–	ELECTRICAL MOTOR STARTER BY ELEC.
	ES	–	E	LV	END SWITCH WIRED BY ELEC.
.		–	E	–	ELECTRICAL TRANSFORMER 120V-24V BY ELECTRICAL CONTRACTOR
	CR	–	E	24V	ELECTRIC DAMPER MOTOR BY MECHANICAL, WIRED BY ELEC.
D		–	–	–	LOW LEAKAGE DAMPER PARALLEL BY MECHANICAL, WIRED BY ELEC.
	T R	–	E	24V	WALL-MOUNTED THERMOSTAT "R" INDICATES REVERSE ACTING
	R	–	E	24V	ELECTRICAL RELAY SWITCH (BY ELEC.)

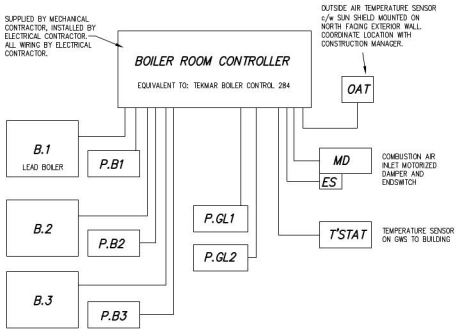
SEQUENCE

THE EXHAUST FAN IS CYCLED TO MAINTAIN THE SET TEMPERATURE OF THE THERMOSTAT. WHEN THE SET POINT IS EXCEEDED THE DAMPERS ARE OPENED.

WHEN THE DAMPERS ARE FULLY OPEN, THE END SWITCH MAKES AND THE FAN IS STARTED.

12 M14 BOILER ROOM CONTROLLER SYSTEM ARCHITECTURE

N.T.S.



BOILER ROOM CONTROLLER:

EQUAL TO TEKMAR BOILER CONTROL 284.
15 A CIRCUIT @ 120/1/60

BOILER CONTROLLER SHALL BE CAPABLE OF OPERATING UP TO FOUR BOILER USING ONE OF THE FOLLOWING MODES:
- OUTDOOR TEMPERATURE RESET
- FIXED SUPPLY TEMPERATURE SETPOINT
- ENERGY MANAGEMENT SYSTEM (EMS)
- BUILDING AUTOMATION SYSTEM (BAS)

IN ADDITION, THE CONTROLLER SHALL HAVE THE FOLLOWING CAPABILITIES:
- EQUAL BOILER RUN TIME OPERATION
- STANDBY AND PRIMARY PUMP OPERATION
- OUTDOOR TEMPERATURE RESET
- PROGRAMMABLE SCHEDULES
- ENERGY, FLOW, AND PRESSURE MONITORING
- ALERT RELAY
- EXERCISING (RUN ALL PUMPS FOR 10 SECONDS EVERY 3 DAYS OF INACTIVITY)
- COMBUSTION AIR PROVING (VIA MD ENDSWITCH)

THE CONTROLLER SHALL SHOW THE FOLLOWING ON THE CONTROLLER SCREEN:
- BOILER X ON/OFF
- PUMP P.BX ON/OFF
- PUMP P.WX ON/OFF
- OAT (℃)

THE CONTROLLER SHALL BE ABLE TO DISPLAY THE FOLLOWING ALARMS ON THE CONTROLLER SCREEN:
- NO HEAT (NO TEMPERATURE CHANGE DETECTED AT ANY OPERATING BOILER)
- VENT MAX (BOILERS WILL NOT BE ABLE TO OPERATE IF THE FLUE TEMPERATURE EXCEEDS THE MANUFACTURER'S MAXIMUM VALUE)

13 M14 HRV.1 AND HC.1 CONTROL

N.T.S.

SEQUENCE

WHEN OUTSIDE AIR TEMPERATURE IS BELOW -5℃, THE HRV DEFROST RELAY ENABLES THE PREHEAT COIL CONTROLLER. THE DEFROST MODE SHALL OPERATE ON A TIMER BASED ON OUTSIDE AIR TEMPERATURE. THE OUTSIDE AIR TEMPERATURE SHALL BE UPSTREAM OF THE PRE-HEAT COIL.

WHEN THE PREHEAT IS ENABLED, THE 3-WAY VALVE MODULATES TO SATISFY THE DISCHARGE TEMPERATURE (ADJUSTABLE) VIA DUCT TEMPERATURE SENSOR AND MIXING SETPOINT CONTROL. THE DUCT TEMPERATURE SENSOR SHALL BE INSTALLED DOWNSTREAM OF THE PREHEAT COIL.

WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE -2℃, THE HRV DEFROST RELAY DISABLES THE PREHEAT COIL CONTROLLER.

HRV CONTROL SYSTEM SHALL BE EQUAL TO TEKOMAR TM MIXING SETPOINT CONTROL 153.

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DESIGN	GH
REVIEWED BY	DLP
DRAWN	GH
CHECKED BY	KAM
DATE	OCTOBER 2022
SCALE	NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

MECHANICAL DETAILS

SHEET NO. **WTS.M14**

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	HOT WATER (HW)
	HW RECIRCULATION (RC)(RECIRC)
—NPC—	NONPOTABLE COLD WATER (NPC)
	SANITARY WASTE LINE (SAN)
	SANITARY VENT (V)(VENT)
	SANITARY STORM (STORM)(RWL)
—TP—	TRAP PRIMER LINE (TP)
—FOS—	FUEL OIL SUPPLY (FOS)
—FOR—	FUEL OIL RETURN (FOR)
—GWS—	GLYCOL WATER SUPPLY (GWS)
—GWR—	GLYCOL WATER RETURN (GWR)
—HWS—	HEATING WATER SUPPLY (HWS)
—HWR—	HEATING WATER RETURN (HWR)
	PIPE DOWN (DN)
	PIPE UP (UP)
	CLEAN OUT (C.O.)
	SAN. WASTE "P"TRAP
	FLOOR DRAIN (FD)
	FUNNEL FLOOR DRAIN (FFD)
	SCUPPER FLOOR DRAIN (SFD)
	ROOF DRAIN (RD)
	SAN. VENT THRU ROOF (MIN.3")
	HOSE BIB (HB)
	PLUMBING FIXTURE
WC1	PLUMBING FIXTURE DESIGNATION
	SHUT-OFF VALVE
	BALL VALVE
	GLOBE VALVE
	PRESS. REDUCING VALVE (PRV)
	SOLENOID VALVE
	TEMP. & PRESS. RELIEF (T&P) ANGLE
	CHECK VALVE
	BALANCING VALVE
	STRAINER
	STRAINER c/w BLOW DOWN VALVE
	BACKFLOW PREVENTER
	PIPE UNION
	VACUUM BREAKER
	THERMOMETER
	PRESSURE GAUGE c/w PETCOCK
	AUTOMATIC AIR VENT (AAV)
	MANUAL AIR VENT (MAV)
	CIRCULATOR / PUMP
	THERMOSTAT (ELECTRONIC)
S/A	SUPPLY AIR
R/A	RETURN AIR
E/A	EXHAUST AIR
O/A	OUTSIDE AIR
	BALANCING DAMPER (BD)
	MOTORIZED DAMPER
	DUCT OFFSET
	DUCT UP (S/A)
	DUCT UP (R/A or E/A)
	DUCT DOWN (S/A)
	DUCT DOWN (R/A or E/A)
	DUCT WORK
	A/H UNIT HEATING COIL
	VERTICAL FIRE DAMPER (FD)
	HORIZONTAL FIRE DAMPER (FD)
	FLEXIBLE CONNECTION
A14 / 500	DIFFUSER/GRILLE DESIGNATION (SEE DIFFUSER/GRILLE SCHEDULE)
HWT.1	EQUIPMENT TAG
1099	ROOM NUMBER

PUMP SCHEDULE

DESIGNATION	LOCATION	SERVING	TYPE	MANUF.	MODEL	CAP. L/s	HEAD kPa	FLUID	RPM	ELECTRICAL HP	ELECTRICAL VOLTS/PH	COMMENTS
P.B1	BOILER ROOM	BOILER B.1	VERTICAL INLINE	B&G	e-80 4x4x9.5B	15	75	50%PG	1170	3	575/3/60	–
P.B2	BOILER ROOM	BOILER B.2	VERTICAL INLINE	B&G	e-80 4x4x9.5B	20	75	50%PG	1170	5	575/3/60	–
P.B3	BOILER ROOM	BOILER B.3	VERTICAL INLINE	B&G	e-80 4x4x9.5B	20	75	50%PG	1170	5	575/3/60	–
P.GL1	BOILER ROOM	HEATING SYSTEM	VERTICAL INLINE	ARMSTRONG	4380 4x4x6	40	233	50%PG	3560	20	575/3/60	c/w VFD AND INTEGRAL PRESSURE CONTROL
P.GL2	BOILER ROOM	HEATING SYSTEM	VERTICAL INLINE	ARMSTRONG	4380 4x4x6	40	233	50%PG	3560	20	575/3/60	c/w VFD AND INTEGRAL PRESSURE CONTROL
SP.1	BOILER ROOM	SEWAGE SUMP PIT	SUMP PUMP	SULZER	ABS # EF 05W	6	150	WATER	3450	0.5	120/1/60	DUPLEX PUMP SET c/w FLOAT CONTROLS, GUIDE RAILS, AND CONTROL PANEL
P.1	BOILER ROOM	NONPOTABLE COLD WATER SYSTEM	BOOSTER PUMP	GRUNDFOS	MQ 3-35	0.5	60	WATER	1180	0.75	120/1/60	c/w BUILT IN CONTROLLER
P.2	SITE OFFICE	DOMESTIC WATER SYSTEM	BOOSTER PUMP	GRUNDFOS	MQ 3-35	0.5	60	WATER	1180	0.75	120/1/60	c/w BUILT IN CONTROLLER

ABBREVIATIONS : BRN . BRONZE BODY; INLN . INLINE PUMP; BASE . BASE MOUNTED; VERT . VERTICAL; IRON . IRON BODY; USgpm . U.S. GAL./MIN; IMPgpm . IMPERIAL GAL./MIN; CIRC. . CIRCULATOR; GLY . 40% PROPYLENE GLYCOL

BOILER SCHEDULE

DES.	LOCATION	MANUF.	MODEL	FUEL	INPUT (kW)	FUEL FLOW (LPM)	TOTAL CAP (kW)	FLUID	FLUID ø (mm)	FLUID TEMP (°C) SUPPLY	FLUID TEMP (°C) RETURN	FLUE ø (mm)	DIM. (M) LxWxH	VOLUME (LITERS)	ELECTRICAL V/Ph/Hz	ELECTRICAL AMP	COMMENTS
B.1	BOILER ROOM	LINKA ENERGY	LINKA H	BIOMASS	N/A	N/A	1000	50% P.GLYCOL	N/A	88	71	350	3.2x2.3x2.5	–	400/3/50	–	–
B.2	BOILER ROOM	CLEAVER BROOKS	MODEL 5-6000	#2 FUEL OIL	1758	2.65	1393	50% P.GLYCOL	13	88	71	400	3.5x1.5x2.0	617	575/3/60	4.1	c/w INTEGRAL FORCED DRAFT BURNER AND BURNER CONTROLS
B.3	BOILER ROOM	CLEANER BROOKS	MODEL 5-6000	#2 FUEL OIL	1758	2.65	1393	50% P.GLYCOL	13	88	71	400	3.5x1.5x2.0	617	575/3/60	4.1	c/w INTEGRAL FORCED DRAFT BURNER AND BURNER CONTROLS

NOTE : *1 – ALL BOILERS c/w INTEGRAL FACTORY WIRED CONTROL PANELS*

EXPANSION TANK SCHEDULE

DES.	LOCATION	SERVING	MANUF.	MODEL	TOTAL VOL. LITRES	ACCEPT. VOL. LITRES	MAX. TEMP. °C	PRESS. (kPa) MAX.	SIZE (mm) DIA.	SIZE (mm) HEIGHT	COMMENTS
EXP.1	BOILER ROOM	HEATING SYSTEM	AMTROL	AX-80V	168	86	115	2068	600	725	–
–	–	–	–	–	–	–	–	–	–	–	–

NOTE : *ALL EXP.TANKS TO BE c/w FACTORY PRECHARGE & CHARGING VALVE (PROPYLENE GLYCOL APPLCIATION)*

HEATING EQUIPMENT

TAG	DESCRIPTION
AS1	AIR SEPARATOR WITH STRAINER EQUIVALENT TO: AMTROL MODEL 8-AS-150 TANGENTIAL DESIGN WITH LOW VELOCITY VORTEX c/w REMOVABLE 304 STAINLESS STEEL STRAINER. STEEL BODY AND RING BASE, 19ø VENT, SELF-SUPPORTING (CLASS 150 RATED). MAX WORKING PRESSURE 1034 kPa (150 psi) MAX OPERATING TEMPERATURE 177°C (350°F). MAXIMUM FLUID FLOWRATE – 59 L/s (940 USGPM) 200ø FLANGED CONNECTIONS 800mm x 1425mm OVERALL DIMENSIONS (750mm MINIMUM CLEARANCE FOR STRAINER)
GMU	GLYCOL MAKEUP FILL PACKAGE EQUIVALENT TO: BELL & GOSSETT MODEL GMU-30. 0.63 L/s CAPACITY @ 207 kPa (10 USGPM @ 30 PSI), 19ø CONNECTION TANK SIZE = 208 L (55 USGAL) OVERALL DIMENSIONS = 750 x 1450 HIGH (30"x58" HIGH) 0.5 HP @ 120/1/60
DT.1	PACKAGED DAY TANK SYSTEM EQUIVALENT TO: SIMPLEX MODEL STS-300 1135 L (300 USGAL) CAPACITY c/w 1340 L (354 USGAL) SECONDAY CONTAINER, FACTORY PIPED AND INSTALLED DUPLEX FILL PUMPS 7.6 LPM (2 USGPM) EACH MANUAL FILL PORT, CONTROLLER, 50ø PRIMARY TANK VENT c/w VENT CAP, 100ø SECONDARY TANK VENT c/w VENT CAP, TANK DRAIN FOR PRIMARY AND SECONDARY CONTAINERS, MANUAL FUEL SHUTOFF VALVE, MECHANICAL LEVEL GAUGE, HIGH FUEL CUTOUT FLOAT, LOW FUEL CUTOUT FLOAT, LEAK SENSOR, SECONDARY CONTAINMENT LEAK FLOAT, 50ø OVERFLOW PORT, 25ø SUPPLY AND RETURN PORTS, 19ø SUPPLY AND RETURN TO BOILERS. OVERALL DIMENSIONS = 1842mm L x 750mm W x 1950mm H (72.5" L x 30" W x 78" H) 15 A @ 120/1/60 SINGLE POINT ELECTRICAL CONNECTION

UNIT HEATER SCHEDULE

MARK	LOCATION	MFGR	MODEL	FLUID	CAPACITY (kW)	EFT (°C)	LFT (°C)	FPD (kPa)	AIRFLOW L/s	FLUID FLOW L/s	MOTOR HP	MOTOR POWER	COMMENTS
UH.1	PLANT AREA	REZNOR	300	50%PG	68	87	69	14.3	2242	0.93	1.14	120/1/60	–
UH.2	PLANT AREA	REZNOR	300	50%PG	68	87	69	14.3	2242	0.93	1.14	120/1/60	–
UH.3	PLANT AREA	REZNOR	300	50%PG	68	87	69	14.3	2242	0.93	1.14	120/1/60	–
UH.4	PLANT AREA	REZNOR	300	50%PG	68	87	69	14.3	2242	0.93	1.14	120/1/60	–
UH.5	PLANT AREA	REZNOR	300	50%PG	68	87	69	14.3	2242	0.93	1.14	120/1/60	–
UH.6	PLANT AREA	REZNOR	300	50%PG	68	87	69	14.3	2242	0.93	1.14	120/1/60	–
UH.7	PLANT AREA	REZNOR	300	50%PG	68	87	69	14.3	2242	0.93	1.14	120/1/60	–
UH.8	PLANT AREA	REZNOR	300	50%PG	68	87	69	14.3	2242	0.93	1.14	120/1/60	–
UH.9	PLANT AREA	REZNOR	300	50%PG	68	87	69	14.3	2242	0.93	1.14	120/1/60	–
UH.10	PLANT AREA	REZNOR	300	50%PG	68	87	69	14.3	2242	0.93	1.14	120/1/60	–
UH.11	PLANT AREA	REZNOR	300	50%PG	68	87	69	14.3	2242	0.93	1.14	120/1/60	–
UH.12	STORAGE	REZNOR	23	50%PG	6	87	69	0.12	236	0.08	0.06	120/1/60	–
UH.13	BOILER RM	REZNOR	23	50%PG	6.5	87	69	0.12	236	0.12	0.06	120/1/60	–
UH.14	BOILER RM	REZNOR	23	50%PG	6.5	87	69	0.12	236	0.12	0.06	120/1/60	–
UH.15	ELECTRICAL	REZNOR	44	50%PG	12.6	87	69	0.45	406	0.17	0.08	120/1/60	–
UH.16	WATER TANK	REZNOR	44	50%PG	12.6	87	69	0.45	406	0.10	0.08	120/1/60	–
UH.17	FIRE PUMP	REZNOR	18	50%PG	5	87	69	0.33	190	0.07	0.04	120/1/60	–

ABBREVIATIONS : EFT – ENTERING FLUID TEMP. LFT – LEAVING FLUID TEMP. FPD – FLUID PRESSURE DROP

AIR CURTAIN SCHEDULE

MARK	LOCATION	MFGR	MODEL	FLUID	CAPACITY (kW)	EFT (°C)	LFT (°C)	FPD (kPa)	AIRFLOW L/s	FLUID FLOW L/s	MOTOR HP	MOTOR POWER	COMMENTS
ACTN.1	PLANT AREA	BERNER	IDC20-1168W	50%PG	210	87	69	75	10,713	6.04	15	575/3/60	NOTE 1
ACTN.2	PLANT AREA	BERNER	IDC20-1168W	50%PG	210	87	69	75	10,713	6.04	15	575/3/60	NOTE 1
ACTN.3	SCALE HOUSE	BERNER	DTU03-1018A	–	1.7	–	–	–	64	–	0.08	120/1/60	NOTE 1 AND 2

ABBREVIATIONS : EFT – ENTERING FLUID TEMP. ATD – AIR TEMPERATURE DIFFERENCE

NOTES : 1. COORDINATE INSTALLATION WITH OVERHEAD DOOR OR WINDOW
2. ELECTRIC AIR CURTAIN SUPPLIED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIP.	MFGR./ MODEL	TRIM	WASTE	TRAP	STOPS/ SUPPLIES	HANGER	PIPE SIZES in INCHES DCW	DHW	SAN	VENT	NOTES: ALL FIXTURES TO BE WATERSENSE CERTIFIED
WC.1	WATER CLOSET FLOOR MOUNTED (TANK TYPE)	AMERICAN STANDARD MODEL 2467.100 4.2 LPF	--	--	--	COPPER	--	13	--	75	38	– SEAT TO BE AMERICAN STANDARD 5055A65C (ELONGATED SEAT WITH LID) – PROVIDE 15mm FLEX ANGLE WITH HAND/WHEEL STOPS AND ESCUTCHEONS
LV.1	LAVATORY WALL HUNG	AMERICAN STANDARD MODEL 0356.015	AMERICAN STANDARD MODEL 6500.145 1.9 LPM (0.5 USGPM)	CAST BRASS OFFSET WASTE WITH OPEN GRID STRAINGER	DELTA/TECK # 33T311 (w/CO PLUG)	DELTA/TECK # 47P231SD	--	13	13	38	38	– D-SHAPED VITREOUS CHINA WALL MOUNT c/w WALL HANGER, FRONT OVERFLOW. 3 HOLES ON 200mm (8") CENTERS – FAUCET c/w THERMOSTATIC MIXING VALVE WITH INTEGRAL CHECKS, VANDAL RESISTANT AERATOR AND 57mm LONG LEVER HANDLES WITH RED AND BLUE COLOR INDICATORS
SK.1	KITCHEN STYLE SS COUNTER SINK SINGLE BOWL	FRANKE/KINDRED KITCHEN QSL 1719-8-1	KINDRED # KFPD1150 8.3 LPM (2.2 USGPM)	KINDRED BASKET STRAINER WASTE FITTING SUPPLIED WITH SINK	BRASS c/w C.O.	COPPER w/B.V.s	--	13	13	38	38	– 20ga, 304SS, SATIN NICKEL FINISH, 1 HOLE, SELF RIMMING – PULL DOWN SPRAY FAUCET c/w BACKFLOW PREVENTION AND VACUUM BREAKER
SH.1	SHOWER	STERN WILLIAM MODEL SC-32-VBO-L 813 x 813 x 2083	AMERICAN STANDARD #TU430501.002 9.5 LPM (2.5 USGPM)	50ø CHROMED FLOOR DRAIN CENTRE DRAIN ZURN MODEL Z415	PIPE MATERIAL c/w C.O.	COPPER w/B.V.s	--	13	13	50	38	– SHOWER TRIM, CHROME PLATED, THERMOSTATIC BALANCING VALVE WITH INTEGRAL CHECKS, 184mm DIA METAL WALL TRIM FACEPLATE WITH ON/OFF AND TEMPERATURE CONTROL SINGLE LEVER HANDLE, DIVERTER VALVE. 173ø RAIN SHOWERHEAD WITH BALL JOINT. INTEGRAL HW LIMIT STOP. NO SCREW DRIVER STOPS. LEAD FREE. CENTER DRAIN. c/w ROD AND CURTAIN AND SOAP DISH. – DRAIN BODY EQUAL TO ZURN MODEL Z415N
HB	INTERIOR HOSE BIB	WATTS LSFC	--	--	--	--	--	19	--	--	--	– c/w INTEGRAL VACUUM BREAKER, RATED LEAD FREE

ABBREVIATIONS : CW : COLD WATER; HW : HOT WATER; G/M : GALLON/MINUTE; L/M : LITRE/MINUTE; HB : HOSE BIBB; WC : WATER CLOSET; SAN : SANITARY WASTE; WC : WATER CLOSET; S.S. : STAINLESS STEEL; SD : SCREW DRIVER; CP : CHROME PLATED; BV : BALL VALVE; ADA : AMERICAN DISABILITIES ASSOCIATION; DCW/DHW : DOMESTIC COLD/HOT WATER

AIR HANDLING UNIT (AHU) SCHEDULE

TAG	MANUF.	MODEL	LOCATION	EDB °C	HEAT PIPE KW	HEAT PIPE LAT(°C)	SUPPLY FAN HP	SUPPLY FAN L/s	SUPPLY FAN ESP(Pa)	SUPPLY FAN RPM	HEATING COIL FLUID	HEATING COIL L/s	HEATING COIL FPD(kPa)	HEATING COIL APD(Pa)	HEATING COIL KW	HEATING COIL LAT(°C)	RETURN FAN HP	RETURN FAN L/s	RETURN FAN ESP(Pa)	RETURN FAN RPM	ELECTRICAL kW	ELECTRICAL VOLTS/PH	COMMENTS
HRU.1	ENC.AIR	LM38/C/MV/HRP	MEZZANINE	-40	401	-22	30	18,125	400	856	50%PG	7.5	27.8	52.7	523	10	40	18,125	400	1416	–	575/3/60	NOTES 1, 2, 3
HRV.1	ALDES	H1800A-FI	BOILER ROOM	-5	NOT APPLICABLE		–	455	250	–	50%PG	–	–	< 37	6.6	10	–	368	250	–	1.6	120/1/60	NOTES 1 AND 2
HRV.2	ALDES	H650	SITE OFFICE	-5	NOT APPLICABLE		–	153	185	–	NOT APPLICABLE						–	153	185	–	0.13	120/1/60	NOTES 1 AND 2

ABBREVIATIONS : AF – AIRFOIL WHEEL; B/B – BURGLAR BARS; BI – BACKWARD INCLINED; DS – WEATHERPROOF DISCONNECT SWITCH; E.COND – COND.ENTERING AIR TEMP.; EDB – ENTERING DRY BULB TEMP.; ESP – EXTERNAL STATIC PRESSURE; EWB – ENTERING WET BULB TEMP.; FC – FORWARD CURVE FAN; LLD – LOW LEAKAGE DAMPER

NOTES : *1 – ALL UNITS TO BE c/w SINGLE POINT POWER CONNECTION*
2 – UNIT TO BE FACTORY WIRED FOR FULL AUTOMATION BASED ON MAINTAINING SUPPLY AIR TEMPERATURE SETPOINT ESTABLISHED AT UNIT CONTROLLER. CONTROLLER TO INCLUDE A 7 (SEVEN) DAY USER ADJUSTABLE TIME CLOCK.
3 – VFD'S SHALL BE FACTORY MOUNTED ON THE UNIT. UNIT TO BE c/w DUCT MOUNT MOTORIZED DAMPERS EQUAL TO TAMCO SERIES 9000. THERMALLY INSULATED CONTROL DAMPER. CO AND NOX SENSORS SHALL BE ELECTRICALLY INTERLOCKED TO HRU.1

RETURN & EXHAUST FAN SCHEDULE

UNIT NO.	LOCATION	TYPE	MANUF.	MODEL	DIMENSIONS LxWxH (mm)	AIR CAP. L/s	ESP kPa	RPM	ELECTRICAL HP	ELECTRICAL VOLTS/PH	COMMENTS
EF.1	ELECTRICAL ROOM	INLINE DIRECT DRIVE	GREENHECK	SQ-95	475x375x375	212	0.12	1550	0.12	120/1/60	c/w DISCONNECT AND VIBRATION ISOLATION HANGERS
EF.2	FIRE PUMP ROOM	INLINE DIRECT DRIVE	GREENHECK	SQ-80-VG	475x375x375	118	0.12	1632	0.10	120/1/60	c/w DISCONNECT AND VIBRATION ISOLATION HANGERS

ABBREVIATIONS : BDD – BACKDRAFT DAMPER; BS – BIRD SCREEN; CENT – CENTRIFUGAL FAN; CURB – ROOF CURB; DS – DISCONNECT SWITCH; GF – GREASE FAN; IS – INSECT SCREEN; MD – MOTORIZED DAMPER; PROP – PROPELLER BLADE FAN; RF – ROOF MOUNTED FAN; VSC – VARIABLE SPEED CONTROL

NOTES : *1 –*
2 –
3 –

HEATING COIL (HC) SCHEDULE

DES.	LOCATION	SYSTEM	AIRFLOW (L/s)	DUCT SIZE (mm)	F.V. (m/s)	APD (Pa)	AIR TEMP(°C) EDB	AIR TEMP(°C) LDB	MIN. kW	V/Ph/Hz	COMMENTS
HC.1	BOILER ROOM	HRV.1 HEATING COIL	455	350x250	< 2.54	< 37	-5	10	6.6	N/A	NOTE 1
HC.1.1	MEZZANINE	HRV.1 PRE-HEAT	455	350x250	< 2.54	< 37	-40	-5	15.6	575/3/60	NOTES 2, 3
HC.2	SITE OFFICE	HRV.2 HEATING COIL	153	250x200	< 2.54	< 37	-5	10	6.5	208/3/60	NOTES 2, 3
HC.2.1	SITE OFFICE	HRV.2 PRE-HEAT	153	250X200	< 2.54	< 37	-40	-5	6.5	208/3/60	NOTES 2, 3

ABBREVIATIONS : F.V. – FACE VELOCITY; APD – AIR PRESSURE DROP; m/s – METERS PER SECOND; SCR – SOLID STATE CONTROLLER; OC – OPEN COIL HEATER; Kw – KILOWATTS POWER

NOTES : 1 – 50% PROPYLENE GLYCOL HEATING COIL. SEE AHU SCHEDULE.
2 – IN DUCT ELECTRIC HEATING COIL c/w ON/OFF HIGH LIMIT CUT OUTS, MAGNETIC CONTACTORS, CONTROL TRANSFORMERFACTORY WIRED DISCONNECT SWITCH, PRESSURE DIFFERENTIAL SWITCH, AND AIRFLOW SENSOR. STANDARD OF ACCEPTANCE: THERMOLEC
3 – SUPPLIED AND INSTALLED BY MECH. CONTRACTOR. WIRED BY ELEC. CONTRACTOR.

ELECTRIC BASEBOARD HEAT SCHEDULE

DES.	LOCATION	MANUF.	MODEL	L (mm)	MIN. kW	V/Ph/Hz	COMMENTS
BB.1	SCALE HOUSE	STELPRO	SCAS18091	1800	0.9	120/1/60	NOTES 1 AND 2
BB.2	SCALE HOUSE	STELPRO	SCAS18091	1800	0.9	120/1/60	NOTES 1 AND 2
BB.3	SITE OFFICE – WASHROOM	STELPRO	SCAS12061	1200	0.6	120/1/60	NOTES 1 AND 2
BB.4	SITE OFFICE – MECH. ROOM	STELPRO	SCAS12061	1200	0.6	120/1/60	NOTES 1 AND 2
BB.5	SITE OFFICE – OFFICE	STELPRO	SCAS21101	2100	1.0	120/1/60	NOTES 1 AND 2
BB.6	SITE OFFICE – OFFICE	STELPRO	SCAS21101	2100	1.0	120/1/60	NOTES 1 AND 2
BB.7	SITE OFFICE – LOCKER ROOM	STELPRO	SCAS12061	1200	0.6	120/1/60	NOTES 1 AND 2
BB.8	SITE OFFICE – LUNCH ROOM	STELPRO	SCAS24121	2400	1.2	120/1/60	NOTES 1 AND 2
BB.9	SITE OFFICE – CORRIDOR	STELPRO	SCAS12061	1200	0.5	120/1/60	NOTES 1 AND 2
BB.10	SITE OFFICE – CORRIDOR	STELPRO	SCAS12061	1200	0.5	120/1/60	NOTES 1 AND 2
BB.11	SITE OFFICE – CORRIDOR	STELPRO	SCAS12061	1200	0.5	120/1/60	NOTES 1 AND 2

NOTES : 1. COLOR BY ARCHITECT.
2. ELECTRIC BASEBOARD SUPPLIED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.

DIFFUSER / GRILLE SCHEDULE

DESIGNATION	MANUF.	MODEL	NECK	FACE mm	AIR CAP. L/s	COMMENTS
S.1	EH PRICE	SERIES 500	–	200x125	0-85	c/w BD IN NECK
S.2	EH PRICE	SERIES 500	–	350x100	86-100	c/w BD IN NECK
S.3	EH PRICE	SERIES 500	–	900x450	176-300	c/w BD IN NECK
S.4	EH PRICE	SCD	150 ø	300x300	0-46	–
DG	EH PRICE	STG	–	200x125	0-70	–
R.1	EH PRICE	SERIES 500	–	200x125	0-85	c/w BD IN NECK
R.2	EH PRICE	PDDR	150 ø	300x300	0-70	–

S/A DESIGNATION (S.4) / AIR CAPACITY (100); R/A DESIGNATION (R1) / AIR CAPACITY (100)

ABBREVIATIONS OBD – OPPOSED BLADE DAMPER; C/A – COLOUR BY ARCHITECT; BD – BALANCING DAMPER; PERFOR – PERFORATED FACE; EGG – EGGCRATE GRILLE; DG – DOOR GRILLE

NOTES : COORDINATE COLOR OF ALL GRILLES AND DIFFUSERS WITH ARCHITECT

ELECTRIC HEAT TRACING SCHEDULE

DES.	LOCATION	PIPE L (M)	TANK DIM. LxWxH(M)	FLUID TEMP(°C) MIN	FLUID TEMP(°C) MAX	AMBIENT T(°C) MIN	AMBIENT T(°C) MAX	INS. (mm)	ELECTRICAL WATTS	ELECTRICAL V/Ph/Hz	COMMENTS
EHT.1	PLANT AREA	6.0	N/A	5	20	-40	10	25	60	120/1/60	NOTES 1, 2, 3
EHT.2	SITE OFFICE MECH ROOM	15.0	3.2x2.0x0.8	5	60	-40	60	50	2350	120/1/60	NOTES 1, 2, 3

NOTES : 1 – STANDARD OF ACCEPTANCE: NVENT RAYCHEN
2 – c/w WALL MOUNT CONTROLLER, SELF REGULATING CABLE, SINGLE ENTRY POWER KIT WITH J-BOX, END SEAL KIT, PIPE STRAPS, PIPE AND TANK LABELS, STRIPPING TOOL, AMBIENT TEMPERATURE SENSOR.
3 – ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL COMPLETE SYSTEM. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.

TANK SCHEDULE

TAG	DESCRIPTION
FST.1	OUTDOOR FUEL OIL STORAGE TANK 24,295 L (6420 USGAL) CAPACITY EQUIVALENT TO: WESTEEL MODEL HFV25000 DOUBLE WALL ALL STEEL CONSTRUCTION c/w EPOXY COATING AND PAINT. TANK c/w ACCESS LADDER, ULC LABEL, IDENTIFICATION SIGN, LOW LEVEL SENSOR LIFTING LUGS, VENT AND FIRE EMERGENCY VENT, GAUGE PIPE, FOOT VALVE, DRAIN PLUG, SADDLE, WEAR PLATE, HINGED AND LOCKABLE COVER. 2375 ø x 5484
HT.1	SEWAGE TANK – STORAGE ROOM 4500 L (1190 USGAL) CAPACITY EQUIVALENT TO: ACO MODEL DMT-9000 HDPE DOUBLE WALL MOLDED SEWAGE STORAGE TANK c/w 400ø LID AND LOCKING STRAP, PUMP OUT OUTLET, VENT AND HIGH LEVEL SWITCH. 2125ø x 1850
HT.2	SEWAGE TANK – SITE OFFICE CRAWL SPACE (OUTDOOR) 4500 L (1190 USGAL) CAPACITY EQUIVALENT TO: EQUINOX MODEL LPT-1000A FIBERGLASS LOW PROFILE SEWAGE STORAGE TANK c/w 100ø SIDE PUMP OUT OUTLET, 100ø SIDE INLET, VENT AND HIGH LEVEL SWITCH. TANK TO BE INSULATED WITH MIN 50mm ARMAFLEX (OR EQUIVALENT, SEE PIPE INSULATION SCHEDULE) AND HEAT TRACED (HEAT TRACING BY ELECTRICAL CONTRACTOR). TANK TO BE c/w FIBERGLASS BRACING MOUNTED ON A STAINLESS STEEL FRAME ABOVE GRADE. 2017 L x 3204 W x 960 H
WST.1	FIRE PUMP WATER TANK SEE FIRE PROTECTION DRAWING WTS-FP02.
WST.2	NON-POTABLE WATER STORAGE TANK – BOILER ROOM 1135 L (300 USGAL) CAPACITY EQUIVALENT TO: EQUINOX MODEL E-250PV POLYETHYLENE INDOOR WATER STORAGE TANK c/w 200ø LID, LOW LEVEL DRAIN AND OUTLET, HIGH AND LOW LEVEL SWITCH, FILL INLET PIPE, OVERFLOW PIPE AND VENT. 915ø x 2130 HIGH (36"ø x 84" HIGH)
WST.3	POTABLE WATER STORAGE TANK – SITE OFFICE MECHANICAL ROOM 1135 L (300 USGAL) CAPACITY EQUIVALENT TO: EQUINOX MODEL E-250PV POLYETHYLENE INDOOR WATER STORAGE TANK c/w 200ø LID, LOW LEVEL DRAIN AND OUTLET, HIGH AND LOW LEVEL SWITCH, FILL INLET PIPE, OVERFLOW PIPE AND VENT. 915ø x 2130 HIGH (36"ø x 84" HIGH)
PT.1	POTABLE WATER PRESSURE TANK – SITE OFFICE MECHANICAL ROOM 121 L (32 USGAL) CAPACITY, 0.35 ACCEPTANCE FACTOR EQUIVALENT TO: AMTROL MODEL WX-203 HEAVY DUTY BUTYL DIAPHRAGM, ANTI-MICROBIAL LINER, TURBULATOR WATER CIRCULATOR, PRESSURE SWITCH, AIR VALVE, 262 kPa (38 PSI) FACTORY PRECHARGE. 93°C MAX OPERATING TEMPERATURE, 860 kPa MAX RELIEF PRESSURE. 200 kPa (30 PSI) CUT IN, 345 kPa (50 PSI) CUT OUT 381ø x 1194 HIGH (15"ø x 47" HIGH)

PLUMBING EQUIPMENT

TAG	DESCRIPTION
DHWT	ELECTRIC DOMESTIC HOT WATER HEAT (SITE OFFICE MECHANICAL ROOM) EQUIVALENT TO: A.O SMITH MODEL DEN-40 143 L (37 USGAL) TANK CAPACITY. 19ø INLET AND OUTLET. (150 PSI) WORKING PRESSURE, 38 LPH (10 GPH) AT 67°C (120°F) TEMPERATURE RISE. 521ø x 1146mm H (20.5"ø x 45.⅛") ELECTRICAL: 3 kW INPUT , FLA = 25 A, 208/1/60
AC.1	PORTABLE COMMERCIAL GRADE AIR COMPRESSOR CAMPBELL HAUSFELD MODEL VT6104 OR APPROVED EQUAL HEAVY DUTY CAST IRON, OIL LUBRICATED, TWO CYLINDER SINGLE STAGE PUMP c/w HANDLE AND SEMI-PNEUMATIC WHEELS AND FULLY ENCLOSED METAL BELT GUARD 30 USGAL TANK CAPACITY 4.8 L/s @ 620 kPa (10.2 SCFM @ 90 PSI) MAX OPERATING CONDITIONS: 4.6 L/s @ 930 kPa (9.8 SCFM @ 135 PSI) 3.7 HP, 15.7 A, 230/1/60 MECHANICAL CONTRACTOR TO SUPPLY PORTABLE AIR COMPRESSOR (1 YEAR WARRANTY) FOR BIOMASS EQUIPMENT/VEHICLE LIFT. CONTRACTOR TO COORDINATE STORAGE LOCATION OF AIR COMPRESSOR WITH CLIENT AND ON SITE.
TP	ELECTRONIC TRAP SEAL PRIMER VALVE – SURFACE MOUNT EQUIVALENT TO: PRECISION PLUMBING PRODUCTS (PPP) MODEL PTS 19ø HEADER c/w 120V SOLENOID VALVE, ADJUSTABLE 24 HOUR TIMER WITH MANUAL OVERRIDE SWITCH. NEMA-1 SURFACE MOUNT ENCLOSURE c/w LOCKABLE DOOR. NUMBER OF OUTLET PORTS ON HEADER TO SUIT NUMBER OF TRAP PRIMER LINES FOR LOCATION. UNUSED PORTS TO BE CAPPED.
FFD	FUNNEL FLOOR DRAIN, 100ø OUTLET EQUIVALENT TO: ZURN MODEL ZN415-BF DURA-COATED CAST IRON DRAIN BODY WITH BOTTOM OUTLET, 100mm NICKEL BRONZE STRAINER WITH SECURED OPEN THROAT OVAL FUNNEL AND TRAP PRIMER CONNECTION.
FD.1	FLOOR DRAIN, 100ø OIUTLET EQUIVALENT TO: ZURN MODEL ZN211-B DURA-COATED CAST IRON DRAIN BODY, 100mm ADJUSTABLE NICKEL BRONZE STRAINER AND TRAP PRIMER CONNECTION.
FD.2	SQUARE FLOOR DRAIN, 100ø OULET EQUIVALENT TO: ZURN MODEL ZN610 DURA-COATED CAST IRON DRAIN BODY, 300x300 SQUARE TOP NICKEL BRONZE STRAINER AND TRAP PRIMER CONNECTION.
TD	HEAVY DUTY TRENCH DRAIN, 100ø OUTLET EQUIVALENT TO: ZURN MODEL ZFV812 300mm WIDE REVEAL FIBER REINFORCED VINYLESTER TRENCH DRAIN SYSTEM WITH STEEL FRAME. 3050mm LONG CHANNELS WITH POSITIVE MECHANICAL CONNECTIONS BETWEEN SECTIONS TO NOT SEPARATE DURING INSTALLATION AND 4 CORNER GRATE LOCK DOWN. c/w NO HUB BOTTOM OUTLET, RPGC (REINFORCED PERFORATED GALVANIZED GRATE – CLASS C), BOTTOM DOME STRAINER, JOINT CONNECTORS WHERE REQUIRED TO CONNECT SECTIONS.
CO	FLOOR CLEAN OUT, 100ø EQUIVALENT TO ZURN MODEL ZXN1612-SP DURA-COATED CAST IRON DRAIN BODY WITH 100mm ADJUSTABLE HEAVY DUTY NICKEL BRONZE HEAD AND GASKETED SECURED SCORIATED COVER c/w SEAL PLUG.
EW	PORTABLE GRAVITY FED EYEWASH STATION EQUIVALENT TO: HAWSCO MODEL 7501 c/w 9082 WATER ADDITIVE 34.1 L (9 USGAL) CAPACITY CAPABLE OF SUPPLYING CONSTANT 1.5 LPM (0.4 USGPM) FLOW FOR 15 MINUTES MINIMUM. FDA APPROVED HIGH DENSITY POLYETHYLENE TANK, ABS PLASTIC EYEWASH HEADS c/w WIDE FILL OPENING AND THREADED CAP, TOP AND SIDE HANDLES, AND STAINLESS STEEL WALL BRACKET.

DUCT INSULATION SCHEDULE

DUCT SYS.	SERVICE	DUCT INSULATION THICKNESS	COMMENTS
O/A	OUTSIDE AIR	25-50	O/A DUCTWORK WITHIN BUILDING 25mm NOTES 1 AND 2
S/A	SUPPLY AIR	25-50	S/A DUCTWORK WITHIN BUILDING 25mm NOTES 1, 2 AND 3
R/A	RETURN AIR	–	–
E/A	EXHAUST AIR	25-50	NOTES 1 AND 2

NOTE:
1. ALL DUCTWORK WITHIN 3 M OF BUILDING EXTERIOR WALL TO BE c/w 50mm OF RIGID INSULATION INSIDE THE BUILDING.
2. ALL DUCT INSULATION TO BE IN ACCORDANCE WITH THE 2017 NATIONAL ENERGY CODE FOR BUILDINGS (NECB).
3. INSULATION NOT REQUIRED ON SUPPLY AIR DUCTWORK IN PLANT AREA 101.

PIPE INSULATION SCHEDULE

PIPE ID	SERVICE	TEMP. °F/°C	INSULATION MATERIAL	PIPE SIZES INSULATION THICKNESS < 25	38-50	63-100	> 100	COMMENTS
GWS	GLYCOL SUPPLY	< 199F/93C	MINERAL FIBER	50	50	50	50	.
GWR	GLYCOL HEAT RETURN	< 199F/93C	MINERAL FIBER	50	50	50	50	.
NPC	NON-POTABLE COLD WATER	< 199F/93C	MINERAL FIBER	25	25	38	38	c/w VAPOUR BARRIER
CW	DOMESTIC COLD WATER	< 199F/93C	MINERAL FIBER	25	25	38	38	c/w VAPOUR BARRIER
HW	DOMESTIC HOT WATER	> 86F/30C	MINERAL FIBER	25	25	38	38	.
RWL	RAIN WATER PIPING	ALL	MINERAL FIBER	25	25	25	25	c/w VAPOUR BARRIER
RD	ROOF DRAIN BODIES	ALL	MINERAL FIBER	25	25	25	25	c/w VAPOUR BARRIER
VENT	PLB. VENT UNHEATED SPACE	ALL	MINERAL FIBER	25	25	25	25	c/w VAPOUR BARRIER
SAN	DRAINAGE PIPING OUTSIDE & HT.2	ALL	MINERAL FIBER	50	50	50	50	HEAT TRACE SITE OFFICE SANITARY PIPE & HT.2

NOTE:
1. ON EXPOSED PIPE UP TO 10FT AFF TO BE PROTECTED w/PVC JACKET
2. ON EXPOSED PIPES ON EXTERIOR TO BE PROTECTED w/ALUMINUM JACKET
3. MAX. FLAME SPREAD TO BE 25, MAX. SMOKE DEVELOPMENT TO BE 50
4. PIPE INSULATION WILL BE PRE.FORMED GLASS FIBRE REINFORCED KRAFT FOIL LAMINATE HAVING A NOMINAL DENSITY of 3.5 LB/FT3

ROOF DRAIN SCHEDULE

TAG	LOCATION	SIZE	AREA SQ.M	DRAIN TYPE REGULAR	DRAIN TYPE CONTROL	No. NOTCHES	LOAD	COMMENTS
RD.1	SITE OFFICE	75mm ø	27	Y	–	N/A	136 L	–
RD.2	SITE OFFICE	75mm ø	27	Y	–	N/A	136 L	–
–	–	–	–	–	–	–	–	–

ABBREVATIONS : AL/DOME – ALUMINUM DOME; INV/RF. – INVERTED ROOF; CONV. – CONVENTIONAL ROOF; RFDR – ROOF DRAIN; RWL – RAIN WATER LEADER

RD.x REGULAR FLOW ROOF DRAIN : 381mm (15") DURA-COATED CAST IRON DRAIN BODY c/w COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE ALUMINUM DOME. EQUIVALENT TO ZURN MODEL No. ZA100

Conditions of Use

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5	REVIEW	2021/06/25	K.B.
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3	90% REVIEW	2020/01/24	K.B.
2	50% REVIEW	2019/10/23	K.B.
1	30% REVIEW	2019/06/04	K.B.

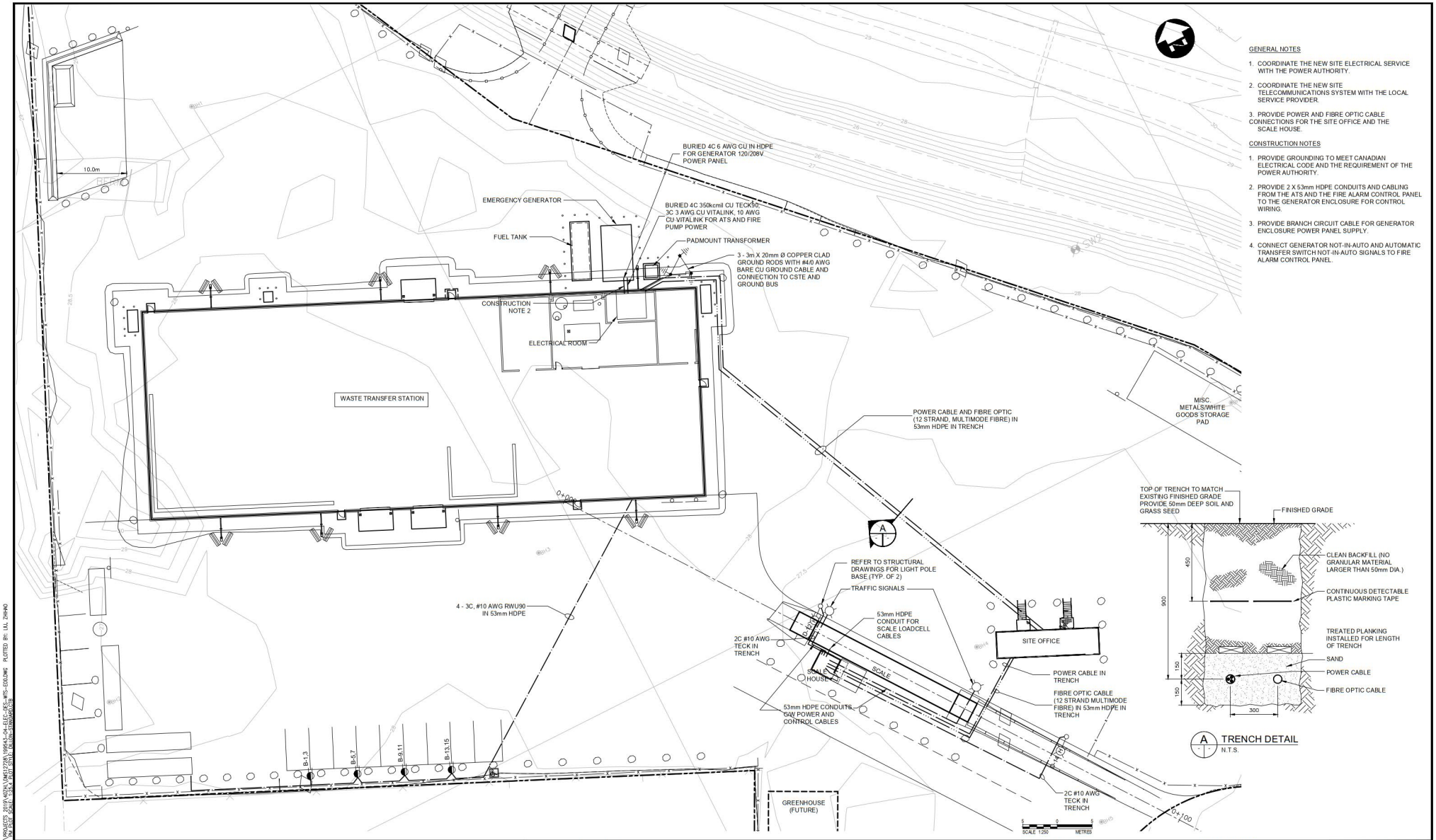
DESIGN GH | REVIEWED BY DLP | DRAWN GH | CHECKED BY KAM | DATE OCTOBER 2022 | SCALE NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

MECHANICAL SCHEDULES

PROJECT NO. 19-9543

SHEET NO. WTS.M15



GENERAL NOTES

1. COORDINATE THE NEW SITE ELECTRICAL SERVICE WITH THE POWER AUTHORITY.
2. COORDINATE THE NEW SITE TELECOMMUNICATIONS SYSTEM WITH THE LOCAL SERVICE PROVIDER.
3. PROVIDE POWER AND FIBRE OPTIC CABLE CONNECTIONS FOR THE SITE OFFICE AND THE SCALE HOUSE.

CONSTRUCTION NOTES

1. PROVIDE GROUNDING TO MEET CANADIAN ELECTRICAL CODE AND THE REQUIREMENT OF THE POWER AUTHORITY.
2. PROVIDE 2 X 53mm HDPE CONDUITS AND CABLING FROM THE ATS AND THE FIRE ALARM CONTROL PANEL TO THE GENERATOR ENCLOSURE FOR CONTROL WIRING.
3. PROVIDE BRANCH CIRCUIT CABLE FOR GENERATOR ENCLOSURE POWER PANEL SUPPLY.
4. CONNECT GENERATOR NOT-IN-AUTO AND AUTOMATIC TRANSFER SWITCH NOT-IN-AUTO SIGNALS TO FIRE ALARM CONTROL PANEL.

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ON NOV. 4, 2022

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DESIGN: BLM
REVIEWED BY: BLM
DRAWN: SCK
CHECKED BY: KB
DATE: NOVEMBER 2022
SCALE: 1:250

CITY OF IQALUIT
WASTE TRANSFER STATION

ELECTRICAL - SITE PLAN

PROJECT NO. 19-9543

SHEET NO. WTS-E00

PLOTTED BY: LIU, ZIHAO
PLOTTED ON: 2025-03-22 @ 1:25:45 PM
PLOT STYLE: DILLON-STANDARD.STB
PAGE SETUP: ANSI-D-FULL-BLEED-LANDSCAPE
PLOTTED BY: LIU, ZIHAO
DATE: 2025-03-22 @ 1:25:45 PM
PLOT STYLE: DILLON-STANDARD.STB
PAGE SETUP: ANSI-D-FULL-BLEED-LANDSCAPE
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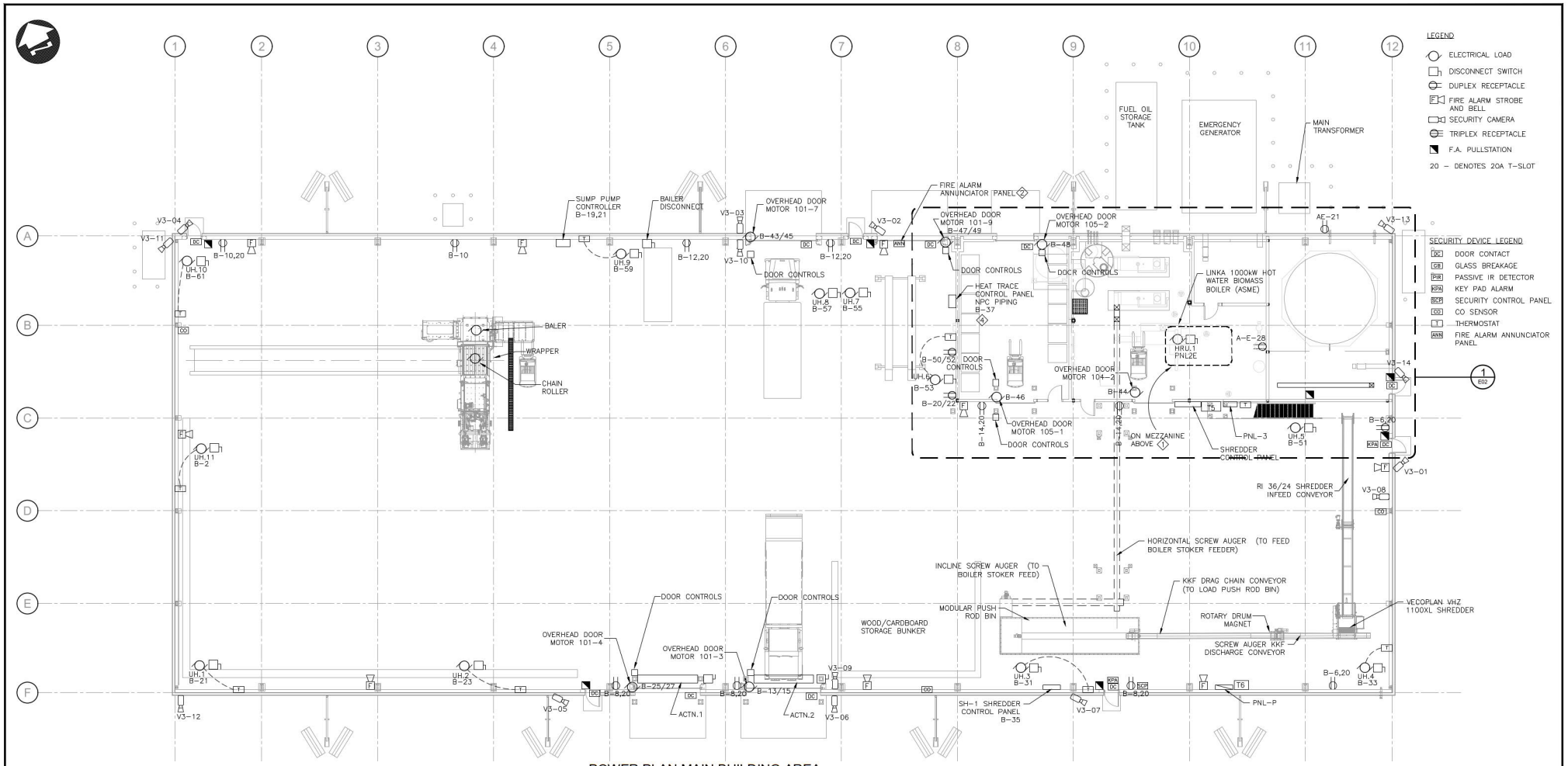

POWER PLAN MAIN BUILDING AREA

1:125

CONSTRUCTION NOTES

1. HRU-1 IS LOCATED ON THE MEZZANINE. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION. PROVIDE 20A T-SLOT RECEPTACLE IN CLOSE PROXIMITY.
2. CONFIRM FIRE FIGHTER ENTRANCE WITH LOCAL FIRE DEPARTMENT.
3. PROVIDE POWER FOR CO AND NOX DETECTION FOR PLANT FLOOR. REFER TO MECHANICAL DRAWINGS FOR GAS DETECTION SYSTEM AND COORDINATE WITH MECHANICAL CONTRACTOR. MONITOR WITH FIRE ALARM SYSTEM TO PROVIDE A TROUBLE SIGNAL ON CO OR NOX DETECTION.
4. PROVIDE HEAT TRACE CABLE, WIRING, CONNECTION KITS, END SEALS, AMBIENT TEMPERATURE CONTROLLER AND ALL REQUIRED ACCESSORIES FOR A COMPETE ELECTRIC HEAT TRACE SYSTEM. PROVIDE DESIGN FROM LOCAL REPRESENTATIVE OR FACTORY FOR REVIEW.

GENERAL NOTES

1. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT. PROVIDE LOCAL DISCONNECTS FOR ALL MECHANICAL EQUIPMENT.
2. COORDINATE PROCESS EQUIPMENT INSTALLATION LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. PROVIDE ALL ELECTRICAL CONNECTIONS, BREAKERS, WIRING AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH EQUIPMENT SUPPLIERS FOR ALL REQUIRED INFORMATION.
3. COORDINATE THE INSTALLATION OF THE MAIN TRANSFORMER WITH THE POWER SUPPLY AUTHORITY.
4. COORDINATE THE INSTALLATION OF THE GENERATOR WITH THE FUEL TANK AND MAIN TRANSFORMER LOCATIONS.
5. SEE STRUCTURAL DRAWINGS FOR HOUSEKEEPING PAD REQUIREMENTS.

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ON Nov. 4, 2022

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DESIGN BLM	REVIEWED BY BLM
DRAWN SCK	CHECKED BY KB
DATE NOVEMBER 2022	
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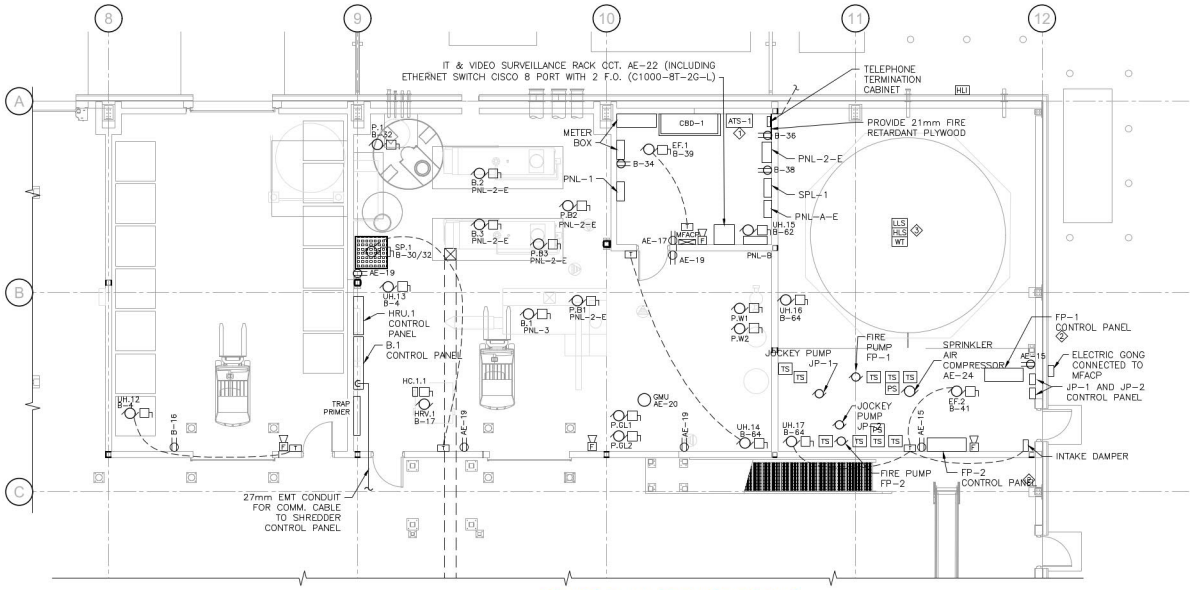
CITY OF IQALUIT
WASTE TRANSFER STATION

POWER PLAN MAIN BUILDING AREA

PROJECT NO. 19-9543

SHEET NO. **WTS-E01**

FILENAME: C:\PW_WORKING DIRECTORY\PROJECTS 2019\42074 DMES\72281\99543-ELEC-DES.DWG PLOTTED BY: LIU, ZHIHAO
PLOT DATE: 2025-03-27 @ 12:55:11 PM PLOT SCALE 1:23.4 PLOT STYLE DILLON-STANDARD.CTB



1 E02 POWER PLAN SERVICE ROOMS
1:75

DISTRIBUTION PANEL – PNL-B

CCT NO	DESCRIPTION	LOAD	TRIP AMPS	N	ABC	TRIP AMPS	LOAD	DESCRIPTION	CCT NO
01	BALER CONTROL	–	–			20	150	UNIT HEATERS UH.11	02
03	OIL BOILER		–			20	150	UNIT HEATERS UH.12, UH.13	04
05	B.2 CONTROL	–	–			20	600	RECEPT. PLANT ROOM	06
07	B.3 CONTROL		–			20	600	RECEPT. PLANT ROOM	08
09	BOILER CONTROL TEKMAR	–	–			20	600	RECEPT. PLANT ROOM	10
11	HRU.1 CONTROL		–			20	600	RECEPT. PLANT ROOM	12
13	OVERHEAD DOOR MOT 101-3	–	–			20	600	RECEPT. PLANT ROOM	14
15			2P			15	600	RECEPT. STORAGE RM.	16
17	HRV.1	1600	20					SPACE	18
19	SUMP PUMP CONTROLLER	500	15			25			20
21	UNIT HEATERS UH.1	150	20			2P		END OF LIFE VEHICLE LIFT	22
23	UNIT HEATERS UH.2	150	20					SPACE	24
25	OVERHEAD DOOR MOT 101-4					15		TRAP PRIMER	26
27		2000	2P			15	500	PUMP P.1	28
29	SPACE							PUMP SP.1	30
31	UNIT HEATERS UH.3	150	20			20	600		32
33	UNIT HEATERS UH.4	150	20					SPACE	34
35	SHREDDER CONTROL PANEL		20			15	500	ELECTRICAL ROOM RECEPT.	36
37	HEAT TRACE CONTROL PANEL		15			15	500	ELECTRICAL ROOM RECEPT.	38
39	EF.1	700	15					SPACE	40
41	EF.2	550	15			15		SPARE	42
43	OVERHEAD DOOR MOTOR 101-7	560	15			15	560	OVERHEAD DOOR MOTOR 104-2	44
45						15	560	OVERHEAD DOOR MOTOR 105-1	46
47	OVERHEAD DOOR MOTOR 101-9	560	15			15	560	OVERHEAD DOOR MOTOR 105-2	48
49						20			50
51	UNIT HEATERS UH.5		20			2P		AIR COMPRESSOR AC-01	52
53	UNIT HEATERS UH.6		20					SPACE	54
53	UNIT HEATERS UH.7		20						56
57	UNIT HEATERS UH.8		20			25		VECOPLAN COMPRESSOR	58
59	UNIT HEATERS UH.9		20			3P			60
61	UNIT HEATERS UH.10		20					UNIT HEATER UH.15	62
63								HEATER UH.14 UH.16 UH.17	64
65	SPARE		25					SPACE	66
67			3P					SPACE	68
69	SPACE							SPACE	70
71	SPACE							SPACE	72

VOLTAGE: 120/208V **PHASE:** 3 **WIRE:** 4 **BREAKER I.C.:** 10 kA
MAIN BREAKER: – **MAINS:** 400 **FEEDER:** –
MOUNTING: SURFACE **LOCATION:** WASTE TRANSFER STATION
FED FROM: T1
NOTES: –

GENERAL NOTES

1. SEE STRUCTURAL DRAWINGS FOR HOUSEKEEPING PAD REQUIREMENTS.

CONSTRUCTION NOTES

1. PROVIDE 53MM HDPE CONDUIT FROM THE ATS TO THE GENERATOR ENCLOSURE FOR CONTROL WIRING. PROVIDE WIRING AS REQUIRED. COORDINATE WITH GENERATOR SUPPLIER FOR WIRING AND CONNECTIONS REQUIRED.
2. PROVIDE 53MM HDPE CONDUITS FROM THE FIRE PUMP CONTROLLERS TO THE GENERATOR ENCLOSURE FOR CONTROL WIRING. PROVIDE WIRING AS REQUIRED. COORDINATE WITH FIRE PUMP CONTROLLER SUPPLIER FOR WIRING AND CONNECTIONS REQUIRED.
3. PROVIDE LOW LEVEL FLOAT SWITCH IN STORAGE TANK AND CONNECT TO MFACP. SWITCH TO OPEN ON LOW LEVEL.
4. CONFIRM BREAKER SIZE PER MANUFACTURER SPECIFICATIONS.
5. CONNECT PRESSURE, TAMPER, LOW LEVEL, HIGH LEVEL SWITCHES, AND WATER TEMPERATURE SENSOR TO MFACP.

LEGEND

- P — PHOTO CELL
- DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- VOICE/DATA RECEPTACLE
- 2 X 2 LUMINAIRE
- STRIP LUMINAIRE
- $ — SWITCH
- LOCAL DISCONNECT
- EXIT — COMBO EXIT SIGN
- C — EXTERIOR LUMINAIRE
- CCTV CAMERA
- ELECTRICAL LOAD
- WT — WATER TEMPERATURE SENSOR
- PS — PRESSURE SWITCH
- TS — TAMPER SWITCH
- LLS — LOW LEVEL SWITCH
- HLS — HIGH LEVEL SWITCH
- HLI — HIGH LEVEL INDICATOR LIGHT
- T — THERMOSTAT

DISTRIBUTION PANEL – PNL-P

CCT NO	DESCRIPTION	LOAD	TRIP AMPS	N	ABC	TRIP AMPS	LOAD	DESCRIPTION	CCT NO
01	RECEPT. PARKING								02
03									04
05	RECEPT. PARKING								06
07									08
09	RECEPT. PARKING								10
11									12
13	RECEPT. PARKING								14
15									16
17									18
19									20
21									22
23									24
25									26
27									28
29									30

VOLTAGE: 120/208V **PHASE:** 3 **WIRE:** 4 **BREAKER I.C.:** 10 kA
MAIN BREAKER: – **MAINS:** 400 **FEEDER:** –
MOUNTING: SURFACE **LOCATION:** WASTE TRANSFER STATION
FED FROM: T1
NOTES: –

DISTRIBUTION PANEL PNL-A-E

CCT NO	DESCRIPTION	LOAD	TRIP AMPS	N	ABC	TRIP AMPS	LOAD	DESCRIPTION	CCT NO
01	EXTERIOR LTG. N & E WALL		15			20		HIGH BAY LTG.	02
03	EXTERIOR LTG. S. WALL		15			2P			04
05	STORAGE RM. LTG.		15			20		HIGH BAY LTG.	06
07	BOILER RM. LTG.		15			2P			08
09	BOILER RM. LTG.		15			20		HIGH BAY LTG.	10
11	ELECTRICAL RM. LTG.		15			2P			12
13	FIRE PUMP RM. LTG.		15			20		HIGH BAY LTG.	14
15	RECEPT. FIRE PUMP ROOM		15			2P			16
17	RECEPT. ELECTRICAL		15			15		EXIT SIGNAGE	18
19	RECEPT. BOILER ROOM		15			15		GMU	20
21	SPARE		15			15		VIDEO SURVEILLANCE RACK	22
23	EXTERIOR LIGHT		15			15		SPRINKLER AIR COMPRESSOR	24
25	SPARE		15					AIR COMPRESSOR	26
27								RECEPT. MEZZANINE	28
29	SPARE		30					SPACE	30
31			3P					SPACE	32
33	SPARE		15			15		SPARE	34
35	MFACP		15			15		SPARE	36
37	SPARE		15			15		SPARE	38
39	GAS DETECTOR		20			15		SPARE	40
41	SPARE		20			15		SPARE	42

VOLTAGE: 120/208V **PHASE:** 3 **WIRE:** 4 **BREAKER I.C.:** 10 kA
MAIN BREAKER: – **MAINS:** 225 **FEEDER:** -
MOUNTING: SURFACE **LOCATION:** ELECT. RM.
FED FROM: T2
NOTES: –
–
–
–

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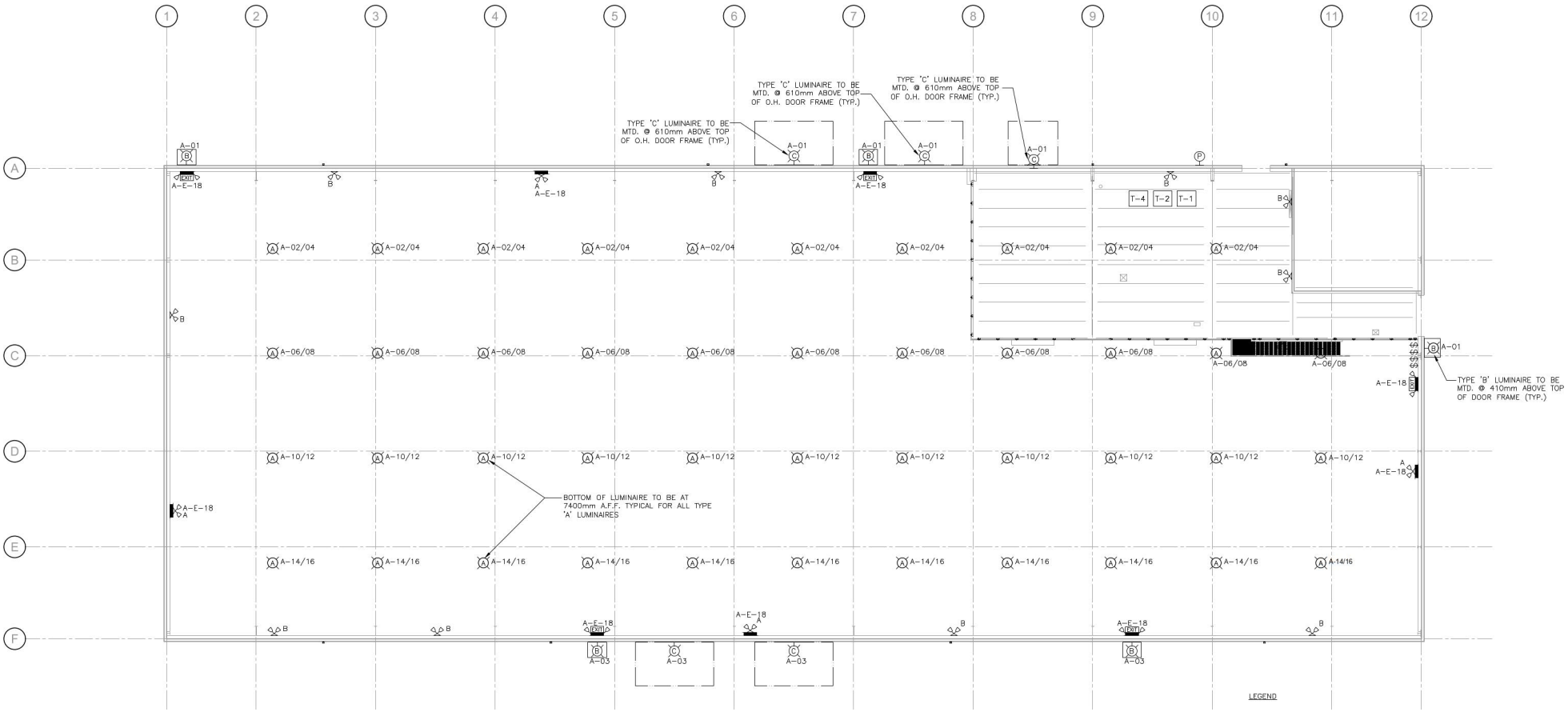
DRAWN: SCK CHECKED BY: KB
DATE: NOVEMBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

POWER AND SYSTEMS PLAN SERVICE ROOMS
PANEL SCHEDULES

PROJECT NO. 19-9543
SHEET NO. **WTS-E02**

FILENAME: C:\PW_WORKING\DIRECTORY\PROJECTS 2019\40214\DMS12728\19-9543-04-ELEC-DSS.DWG PLOTTED BY: LIU, ZHIHAO
PLOT DATE: 2025-03-29 @ 12:55:46 PM PROP SCALE: 1:25.4 PROPERTY FILE: DILLON-STANDARD.DWG



LIGHTING PLAN MAIN BUILDING AREA

1:125

LEGEND

- HIGH BAY LUMINAIRE
- WALL MOUNTED LUMINAIRE
- PHOTOCELL
- COMBINATION EXIT SIGN, DUAL LAMPS, BATTERY UNIT

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DESIGN: BLM
REVIEWED BY: BLM
DRAWN: SCK
CHECKED BY: KB
DATE: NOVEMBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

LIGHTING PLAN MAIN BUILDING

PROJECT NO. 19-9543

SHEET NO. WTS-E03

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\19-9543 IQALUIT\DWG\19-9543 IQALUIT-DBE.DWG PLOTTED BY: LILI, ZHANG
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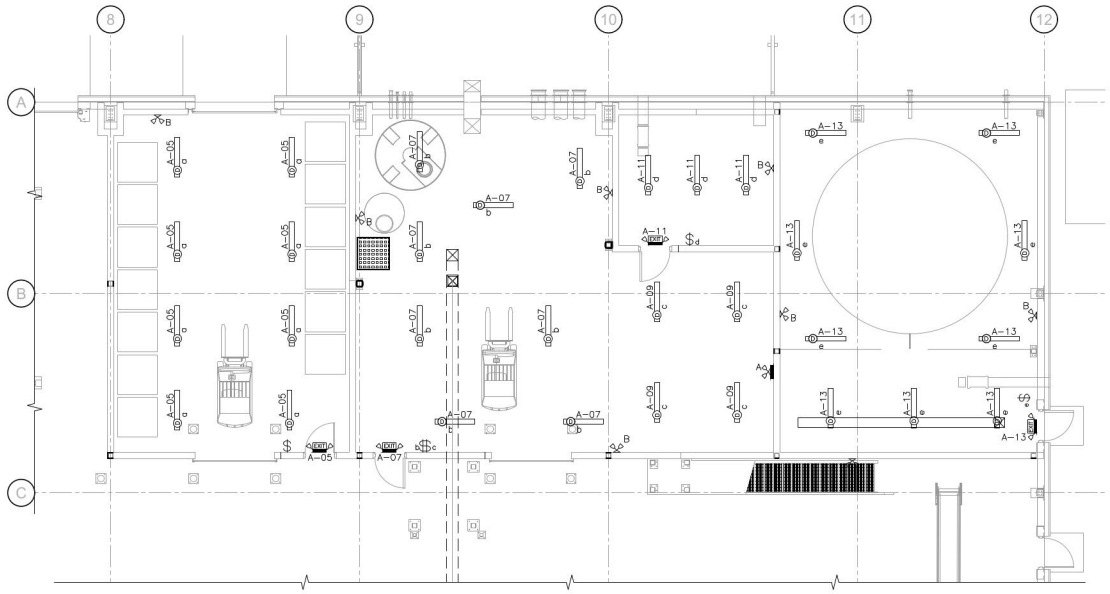

LIGHTING PLAN SERVICE ROOMS
1:75

LEGEND

- STRIP LIGHTING SURFACE MOUNTED
- REMOTE DUAL EMERGENCY LIGHTING FIXTURE
- COMBINATION EXIT LIGHT, EMERGENCY LAMP AND BATTERY UNIT

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	CAT. NO.	LAMP	VOLTAGE	REMARKS
A	LITHONIA LIGHTING	JEBL 24L 40K 80CRI WH	26558 LUMEN 181 WATTS 1 LED	208V	LED HIGH BAY LUMINAIRE MTD. @ NOM. ELEV. 7.4m A.F.F.
B	LITHONIA LIGHTING	KAXW P1 40K R3 120 PER DDBXD	3545 LUMEN 29 WATTS 1 LED	120 VOLTS	WALL MOUNTED, DARK BRONZE C/W PHOTOCELL FOR DUSK TO DAWN OPERATION
C	LITHONIA LIGHTING	DSXW1 LED 20C 1000 40K T4M MVOLT PE DDBXD	2 LED 73 WATTS	120 VOLTS	SURFACE MTD. LED WALL LUMINAIRE DARK BRONZE PHOTOCELL CONTROL
D	LITHONIA LIGHTING	ZL1N L48 7000LM FST 120 40K 80 CRI WH	LED 6785 LUMEN 52 WATTS	120 VOLTS	LED STRIP LIGHT WITH DIFFUSED LENS
F	LITHONIA LIGHTING	OLWX1LED 13W 40K	LED 1200W LUMEN	120 VOLTS	EXTERIOR WALLPACK
G	LITHONIA LIGHTING	EPANL 2X2 4800LM 80 CRI 40K-MINI 2T 120	LED 4847 LUMENS 45 WATTS	120 VOLTS	LED 2X2 FLAT PANEL C/W TBAR OR SURFACE KIT AS REQUIRED
H	LITHONIA LIGHTING	DSX1 LED P9 30K T2M 120 SPA KMA8 DDBXD U PER DDBXD	LED 241 WATTS	120 VOLTS	ROADWAY LUMINAIRE TYPE 2 LIGHT DISTRIBUTION 3000K COLOR TEMP. C/W PHOTO CELL CONTROLLER PHOTOCELL CONTROL: DLL-127F-1.5-JU 2 Ft. MAST ARM: PRAIRE POLE PP-2ft-ARM-5SS-MA-2-3/8"-DDBXD 30 Ft. POLE: PRAIRIE POLE: 5SS-30-HW-2-BR

EMERGENCY LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	CAT. NO.	LAMP	VOLTAGE	REMARKS
A	AIMLITE	EBST-12-720-2MB-7WLA-ATD	2 LAMPS 7 WATTS/720 WATTS	120	STEEL BATTERY UNIT, C/W DUAL HEAD LED LAMP, AUTOTEST, TERMINAL BLOCKS
B	AIMLITE	RMN-2-06-7W-LA-BLK	2 LAMPS 7 WATT	12 VOLT	REMOTE DUAL EMERGENCY LAMP, WET LOCATION, VANDAL PROOF
EXIT	AIMLITE	RPUB-12-RPUB0636-1 -W-2-SM-3WLJ-WHT	2 LAMPS 7 WATTS	120	INTERIOR EXIT SIGN C/W 2 LED EMERGENCY LAMPS GREEN RUNNING MAN PICTOGRAM
EXIT	AIMLITE	CRPN-06-036-1-WHT-2 -7WLR-ATD-CW	2 LAMPS 7 WATT	120-277V	WET LOCATION GREEN RUNNING MAN PICTOGRAM 2 LAMPS

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DESIGN: BLM
REVIEWED BY: BLM
DRAWN: SCK
CHECKED BY: KB
DATE: NOVEMBER 2022
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

LIGHTING PLAN SERVICE ROOMS
FIXTURE SCHEDULE

PROJECT NO. 19-9543
SHEET NO. WTS-E04

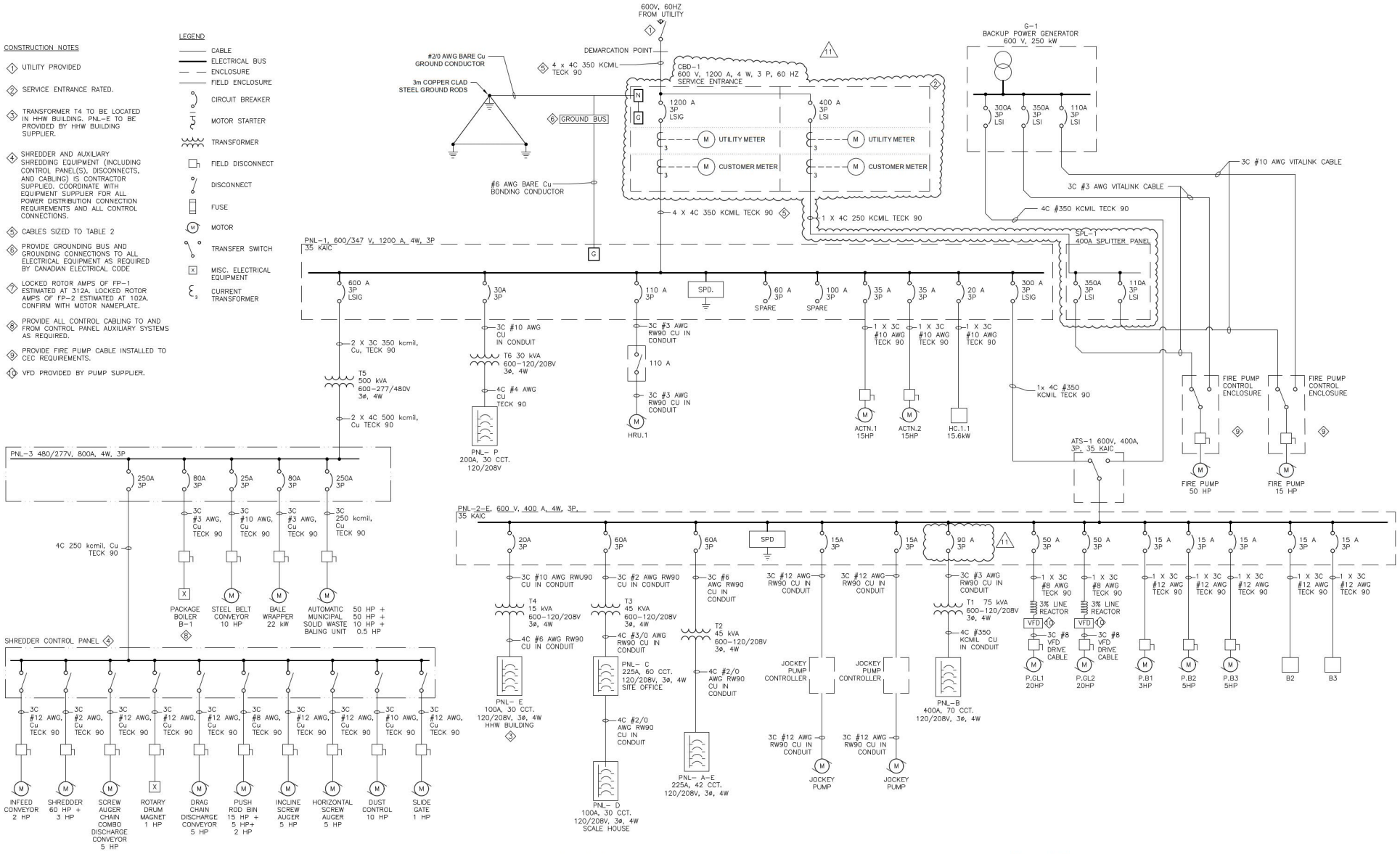
FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\NON DM\17281\19543 NAR-ELC-DBS.DWG PLOTTED BY: LIU, ZHIHAO
PLOT DATE: 2025/03/27 PLOT SCALE: 1:50 PLOT STYLE: BW.CTB NAME:NONAME.CTB

CONSTRUCTION NOTES

1. UTILITY PROVIDED
2. SERVICE ENTRANCE RATED.
3. TRANSFORMER T4 TO BE LOCATED IN HHW BUILDING. PNL–E TO BE PROVIDED BY HHW BUILDING SUPPLIER.
4. SHREDDER AND AUXILIARY SHREDDING EQUIPMENT (INCLUDING CONTROL PANEL(S), DISCONNECTS, AND CABLING) IS CONTRACTOR SUPPLIED. COORDINATE WITH EQUIPMENT SUPPLIER FOR ALL POWER DISTRIBUTION CONNECTION REQUIREMENTS AND ALL CONTROL CONNECTIONS.
5. CABLES SIZED TO TABLE 2
6. PROVIDE GROUNDING BUS AND GROUNDING CONNECTIONS TO ALL ELECTRICAL EQUIPMENT AS REQUIRED BY CANADIAN ELECTRICAL CODE
7. LOCKED ROTOR AMPS OF FP–1 ESTIMATED AT 312A. LOCKED ROTOR AMPS OF FP–2 ESTIMATED AT 102A. CONFIRM WITH MOTOR NAMEPLATE.
8. PROVIDE ALL CONTROL CABLING TO AND FROM CONTROL PANEL AUXILIARY SYSTEMS AS REQUIRED.
9. PROVIDE FIRE PUMP CABLE INSTALLED TO CEC REQUIREMENTS.
10. VFD PROVIDED BY PUMP SUPPLIER.

LEGEND

- CABLE
- ELECTRICAL BUS
- ENCLOSURE
- FIELD ENCLOSURE
- CIRCUIT BREAKER
- MOTOR STARTER
- TRANSFORMER
- FIELD DISCONNECT
- DISCONNECT
- FUSE
- MOTOR
- TRANSFER SWITCH
- MISC. ELECTRICAL EQUIPMENT
- CURRENT TRANSFORMER



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DESIGN BLM	REVIEWED BY BLM
DRAWN SCK	CHECKED BY KB
DATE NOVEMBER 2022	
SCALE SINGLE LINE DIAGRAM	

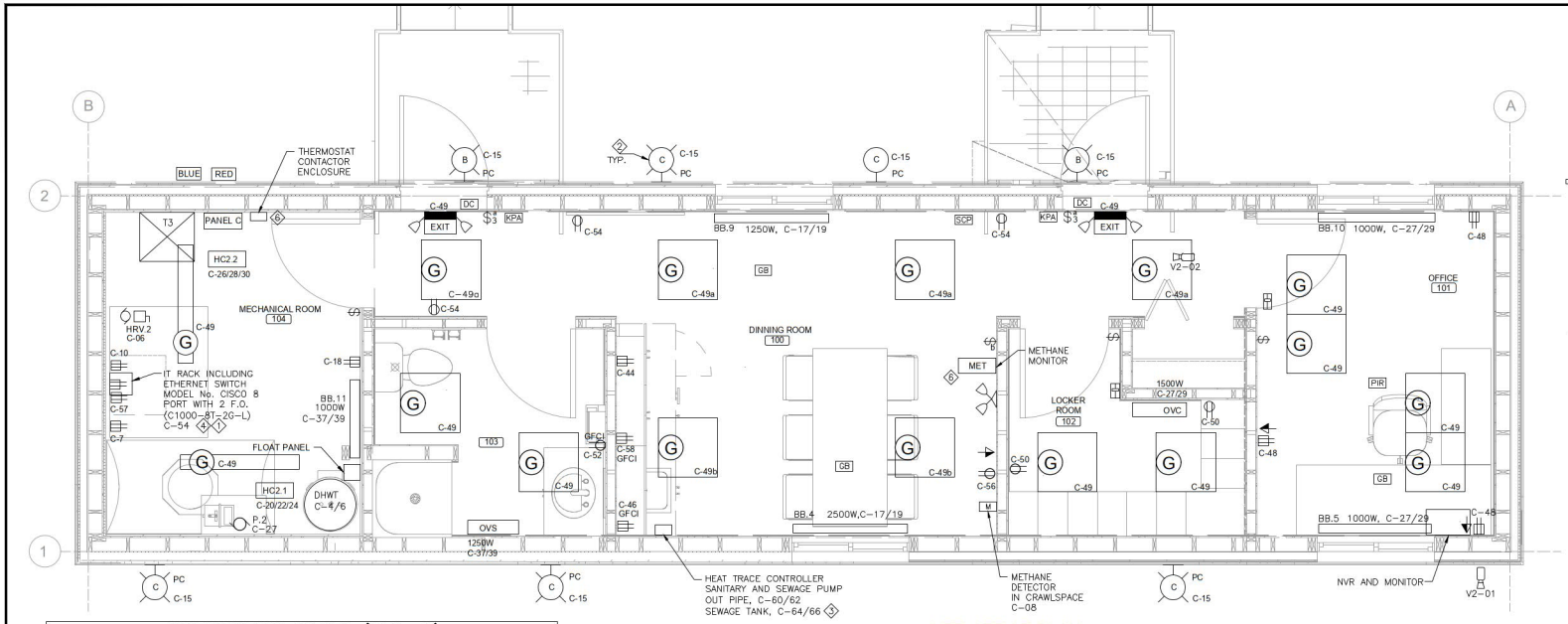
CITY OF IQALUIT
WASTE TRANSFER STATION

OVERALL SITE POWER SINGLE LINE DIAGRAM

PROJECT NO. 19-9543

SHEET NO. **WTS-E05**

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\19243\DWG\19243-E-DES.DWG PLOTTED BY: LIU, ZHIHAO
PLOT DATE: 2025-03-27 & 17:03:11 PM PLOT SCALE: 1=24 PLOT STYLE: ELLIOS-STANDARD.CTB



SITE OFFICE PLAN

1:25

LEGEND

- PHOTO CELL
- DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- VOICE/DATA RECEPTACLE
- 2 X 2 LUMINAIRE
- STRIP LUMINAIRE
- SWITCH
- OCCUPANCY SENSOR SWITCH
- LOCAL DISCONNECT
- COMBO EXIT SIGN
- REMOTE DUAL EMERGENCY LAMP
- EXTERIOR LUMINAIRE
- CCTV CAMERA
- ELECTRICAL LOAD
- M — METHANE DETECTOR
- DC — DOOR CONTACT
- GB — GLASS BREAKAGE
- PIR — PASSIVE IR DETECTOR
- KPA — KEY PAD ALARM
- SCP — SECURITY CONTROL PANEL

SUBSCRIPT LEGEND

R – DENOTES REFRIDGERATION

M – DENOTES MICROWAVE

20 – DENOTES 20A T-SLOT

a – DENOTES ABOVE COUNTER

NOTES

1. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT. PROVIDE LOCAL DISCONNECTS FOR ALL MECHANICAL EQUIPMENT.
2. COORDINATE TRENCHING FOR POWER CABLE AND FIBRE OPTIC CABLE WITH ALL SITE SERVICES AND INSTALLATION OF THE SCALE.

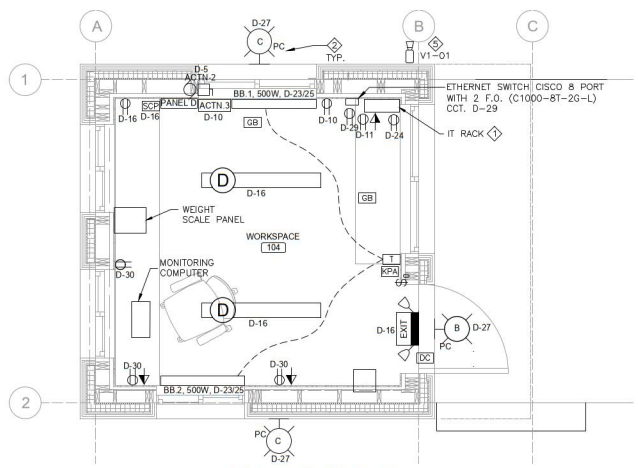
CONSTRUCTION NOTES

1. PROVIDE A WALL MOUNT RACK WITH ENCLOSURE AND LOCKABLE DOOR. PROVIDE 12C PATCH PANEL FOR FIBRE OPTIC CABLE. PROVIDE 24 CCT CAT 6 PATCH PANEL FOR STRUCTURED CABLE. ROUTE ALL STRUCTURED CABLE AND TERMINATE TO PATCH PANEL.
2. PROVIDE PHOTOCELL CONTROL FOR ALL EXTERIOR LIGHTING.
3. PROVIDE HEAT TRACE CABLE, WIRING, CONNECTION KITS, END SEALS, AMBIENT TEMPERATURE CONTROLLER AND ALL REQUIRED ACCESSORIES FOR A COMPETE ELECTRIC HEAT TRACE SYSTEM. PROVIDE DESIGN FROM LOCAL REPRESENTATIVE OR FACTORY FOR REVIEW.
4. PROVIDE HEAD END AND DVR FOR CCTV SERVICE SYSTEM. PROVIDE POE CAMERAS AND SWITCHES FOR A COMPLETE SYSTEM.
5. SCALE HOUSE CAMERA TO BE MOUNTED ON POLE AT 4m ABOVE GROUND LEVEL.
6. PROVIDE CONTACTOR WITH ENCLOSURE FOR CONNECTION OF ONE THERMOSTAT TO MULTIPLE BASEBOARD HEATERS.

DISTRIBUTION PANEL 'PNL-C'

CCT NO	DESCRIPTION	LOAD	TRIP AMPS	N ABC	TRIP AMPS	LOAD	DESCRIPTION	CCT NO
01	PANEL – D						TRAP PRIMER	02
03							DOMESTIC HOT WATER	04
05								06
07	RECEPTACLE IT RACK						ARTIC VENT	08
09	INTRUSION						HRV.2	10
11	SPACE						SPACE	12
13	FLOAT CONTROL PANEL						SPACE	14
15	EXTERIOR LIGHTING						SPACE	16
17	HEATING CORRIDOR +LUNCHROOM						RECEPTACLE MECH. ROOM	18
19							HC2.1	20
21	METHANE DETECTOR							22
23	SPARE							24
25	SPARE						HC2.2	26
27	HEATING OFFICE + LOCKER ROOM							28
29								30
31	SPARE						SPACE	32
33	SPARE						SPACE	34
35	SPARE						SPACE	36
37	HEATING MECH. ROOM + WASHROOM						SPACE	38
39							SPACE	40
41	SPARE						SPACE	42
43	SPARE						FRIDGE	44
45	SPACE						RECEPTACLE LUNCH ROOM	46
47	SPACE						RECEPTACLE OFFICE	48
49	INTERIOR LIGHTING						RECEPTACLE LOCKER ROOM	50
51	SPACE						RECEPTACLE WASHROOM	52
53	SPACE						RECEPTACLE CORRIDOR	54
55	SPACE						RECEPTACLE LUNCHROOM	56
57	RECEPTACLE ETHERNET SWITCH						MICROWAVE	58
59	SPACE						HEAT TRACE TANK	60
61	SPACE							62
63	SPACE						HEAT TRACE SANITARY	64
65	SPACE							66
67	SPACE						SPACE	68
69	SPACE						SPACE	70
71	SPACE						SPACE	72

VOLTAGE:120/208 PHASE: 3 WIRE: 4 BREAKER I.C.: 10kAIC
MAIN BREAKER: 150A MAINS: 225A FEEDER: –
MOUNTING: FLUSH LOCATION: SITE OFFICE
FED FROM: T3/PNL-1
NOTES:



SCALE HOUSE PLAN

1:25

DISTRIBUTION PANEL 'PNL-D'

CCT NO	DESCRIPTION	LOAD	TRIP AMPS	N ABC	TRIP AMPS	LOAD	DESCRIPTION	CCT NO
01	SPARE						SPARE	02
03	SPARE						SPARE	04
05	SPARE						SPARE	06
07	SPARE						SPARE	08
09	SITE LIGHTING A						ACTN.3	10
11	RECEPTACLE						SPARE	12
13	SPARE						SPARE	14
15	INTERIOR LIGHTING + EXIT						SECURITY CONTROL PANEL	16
17	SPARE						X-CUBE	18
19	SITE LIGHTING A						TRAFFIC LIGHT	20
21	SPARE						EXT WEIGHT SCALE DIGITIZER	22
23	HEATING						RECEPTACLE IT RACK	24
25							SPARE	26
27	EXTERIOR LIGHTING						SPARE	28
29	RECEPTACLE ETHERNET SWITCH						RECEPTACLE	30

VOLTAGE:120/208 PHASE: 3 WIRE: 4 BREAKER I.C.: 10kAIC
MAIN BREAKER: 100A MAINS: 100A FEEDER: –
MOUNTING: FLUSH LOCATION: SCALE OFFICE
FED FROM: PNL-C
NOTES:

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DESIGN: BLM | REVIEWED BY: BLM
DRAWN: SCK | CHECKED BY: KB
DATE: NOVEMBER 2022
SCALE: AS NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

ELECTRICAL PLAN
SITE OFFICE AND SCALE HOUSE

PROJECT NO. 19-9543

SHEET NO. **WTS-E06**

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\DCN\DWG\19543\19543-NE-E-D03.DWG PLOTTED BY: LIU, ZHIHAO
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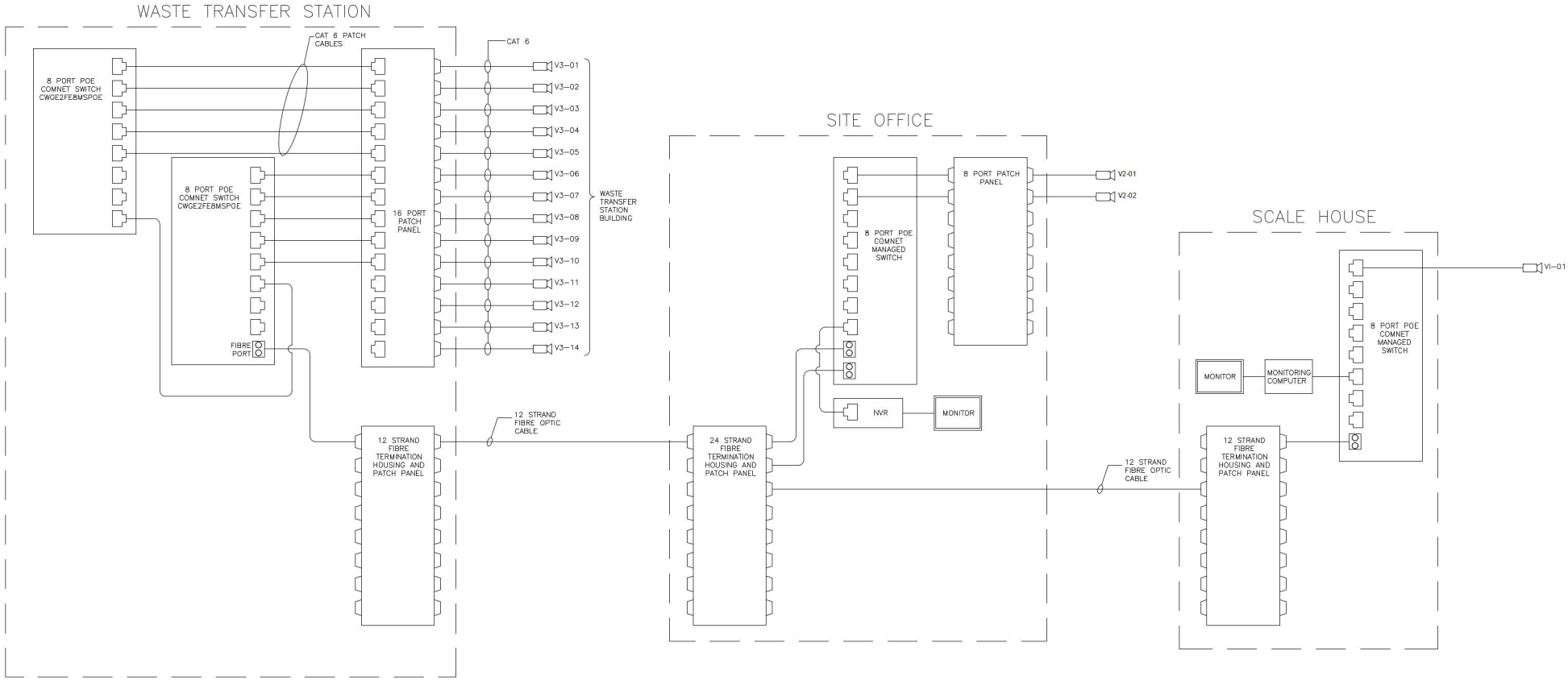

ONE LINE DIAGRAM FOR VIDEO CAMERAS

SCALE: N.T.S.

FILENAME: C:\PW_WORKING\DIRECTORY\PROJECTS 2019\9543\DWG\9729-19\9543-AE-E1-DES.DWG PLOTTED BY: LIU, ZHIHAO
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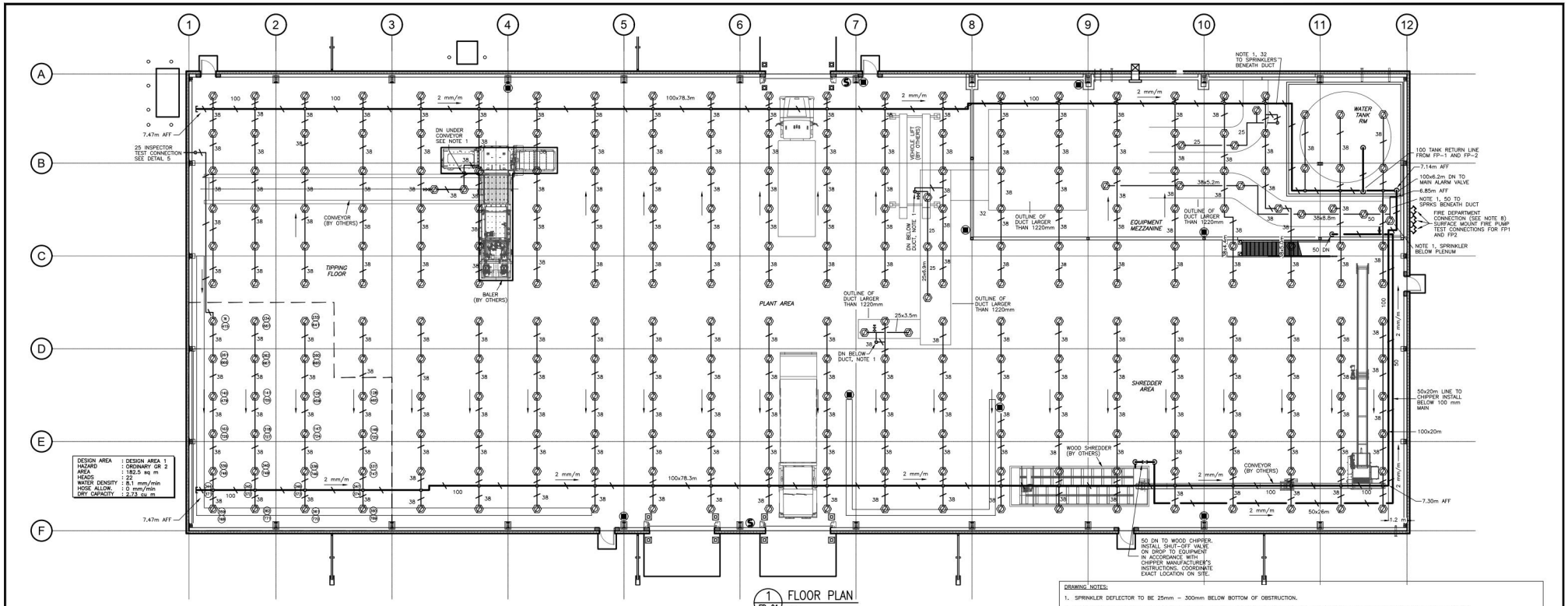
REVIEWED BY: BLM
DRAWN: SCK
CHECKED BY: KB
DATE: NOVEMBER 2022
SCALE: SINGLE LINE DIAGRAM

CITY OF IQALUIT
WASTE TRANSFER STATION

SECURITY CAMERA SYSTEM

PROJECT NO. 19-9543

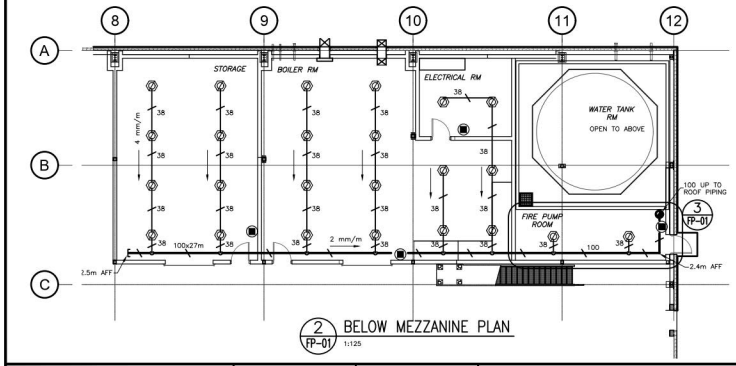
SHEET NO. **WTS-E07**



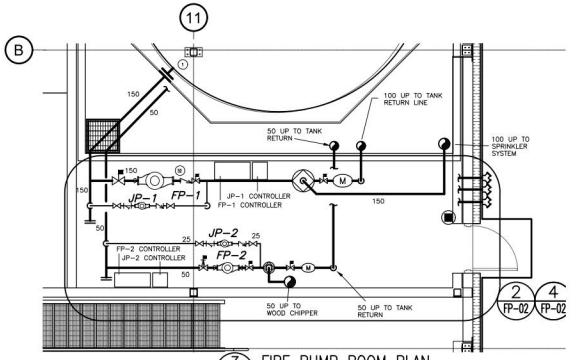
1 FP-01 FLOOR PLAN 1:125

DRAWING NOTES:

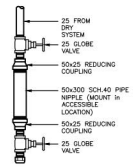
1. SPRINKLER DEFLECTOR TO BE 25mm – 300mm BELOW BOTTOM OF OBSTRUCTION.
2. SPRINKLER DEFLECTOR TO BE 25mm – 150mm BELOW STRUCTURE, MAXIMUM 550mm BELOW ROOF DECK IN PLANT AREA AND UNDER MEZZANINE.
3. SPRINKLER DEFLECTOR TO BE MINIMUM 450mm ABOVE FIXED STORAGE UNDER MEZZANINE.
4. MAINS TO BE PITCHED MINIMUM 2 mm/m TOWARDS RISER.
5. BRANCH LINES IN PLANT AREA TO BE PITCHED TOWARDS MAIN PARALLEL TO ROOF. BRANCH LINES BELOW MEZZANINE TO BE PITCHED MINIMUM 4 mm/m TOWARDS MAIN.
6. PROVIDE HANGER FOR EACH SECTION OF PIPE IN ACCORDANCE WITH NFPA 13. MAXIMUM PIPE HANGER SPACING TO BE 4.5 m FOR HORIZONTAL PIPES, 7.6 m FOR RISERS. SUPPORT PIPE UNDER DUCT OFF OF DUCT HANGER, CONFIRM ON SITE. SUPPORT PIPE UNDER CONVEYOR FROM CONVEYOR STRUCTURE, CONFIRM ELEVATION AND SUPPORT ON SITE WITH CONVEYOR.
7. HIGH TEMPERATURE RATED HEADS FOR SPRINKLER WITHIN 2 m OF UNIT HEATERS AND AIR CURTAINS IN DIRECTION OF DISCHARGE. INTERMEDIATE TEMPERATURE RATED HEADS FOR SPRINKLER WITHIN 6 m OF UNIT HEATERS IN DIRECTION OF DISCHARGE.
8. FIRE DEPARTMENT CONNECTION TO BE APPROVED SURFACE MOUNT TYPE INSTALLED 1540 mm ABOVE GRADE CONSISTING OF TWO 65 mm CONNECTIONS USING NH INTERNAL THREADED SWIVEL FITTINGS WITH 2.5–7.5 NH STANDARD THREAD c/w LEGIBLE SIGN WITH THE FOLLOWING "FIRE DEPARTMENT CONNECTION". FIRE DEPARTMENT CONNECTIONS TO BE EQUIPPED WITH APPROVED PLUGS OR CAPS, PROPERLY SECURED AND ARRANGED FOR EASY REMOVAL BY FIRE DEPARTMENT.



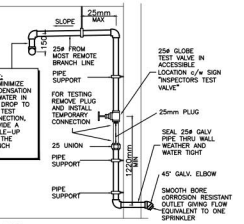
2 FP-01 BELOW MEZZANINE PLAN 1:125



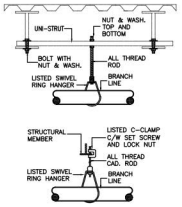
3 FP-01 FIRE PUMP ROOM PLAN 1:50



4 FP-01 DRY DRUM DRIP NTS



5 FP-01 INSPECTOR TEST VALVE NTS



6 FP-01 PIPE SUPPORT HANGERS N.T.S.

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Iqaluit

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No.	ISSUED FOR	DATE	BY
2	RECORD DRAWINGS	2025/01/27	GH
1	ISSUED FOR CONSTRUCTION	2024/07/24	GH

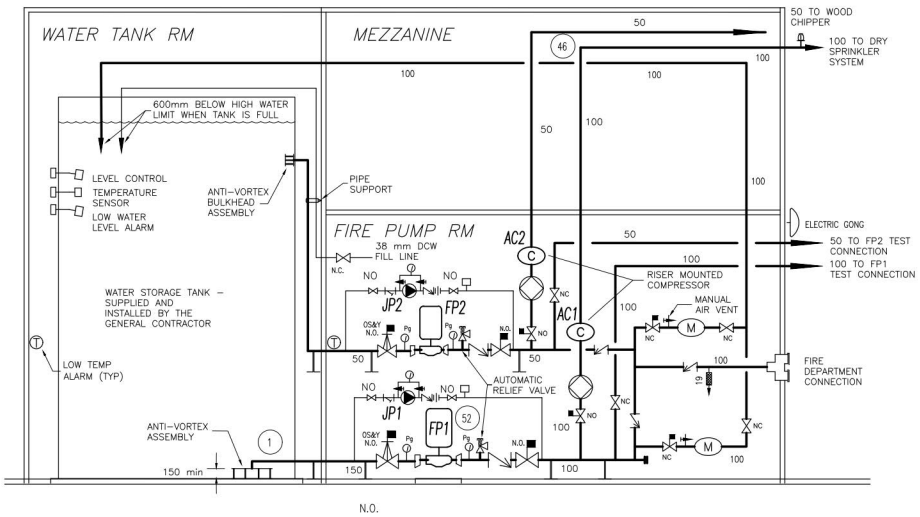
DESIGN	GH
REVIEWED BY	DLP
DRAWN	GH
CHECKED BY	DLP
DATE	JANUARY 2025
SCALE	NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

FIRE PROTECTION FLOOR PLAN

SHEET NO. WTS-FP01



N.O.

1 FP-02 FIRE PUMP FLOW SCHEMATIC
NTS

SPRINKLER HEAD SCHEDULE

QTY	SIZE	K	TEMP	RESPONSE	ORIENTATION	MANUF.	MODEL	NOTES
308	25	5.6	68.3	QUICK	UPRIGHT	TYCO	DS–1	c/w GUARD

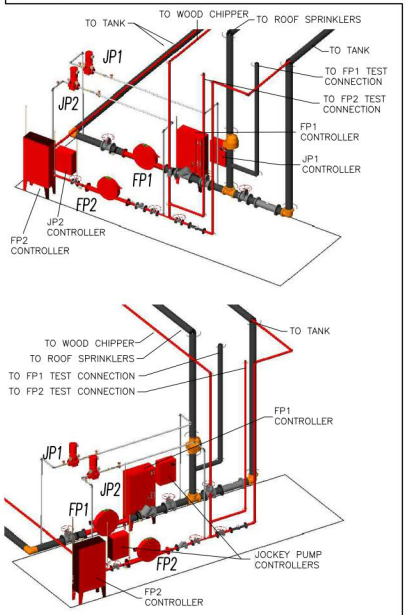
NOTE: COORDINATE LOCATION OF INTERMEDIATE AND HIGH TEMP HEADS WITH MECHANICAL EQUIPMENT ON SITE AS PER NFPA 13 REQUIREMENTS.

SPRINKLER NOTES

1. THE AUTOMATIC SPRINKLER SYSTEM DESIGN IS TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE 2013 EDITION OF NFPA 13.
2. A 170,344 L (45,000 USGAL) ABOVE GROUND STORAGE TANK IS WILL BE SUPPLIED AND INSTALLED BY OTHERS. THIS CONTRACTOR WILL BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF ALL PIPING RELATED TO THE OPERATION OF THIS TANK, AND INTEGRATION OF THE SAME INTO THE FIRE PROTECTION SYSTEM WATER DISTRIBUTION NETWORK.
3. THE FIRE DEPARTMENT CONNECTION AND FIRE PUMP TEST HEADERS TO BE LOCATED AS SHOWN ON THE PLAN.
4. ALL ISOLATION VALVES TO BE c/w SUPERVISOR SWITCH FOR CONNECTION TO FIRE ALARM SYSTEM BY THE ELECTRICAL TRADE CONTRACTOR AS PER NFPA 13.
5. CEILING SPACES ARE LIMITED BELOW THE MEZZANNINE. COORDINATE SPRINKLER PIPING AND HEAD LAYOUT WITH ARCHITECTURAL PLANS AND WITH OTHER TRADES.
6. HOLES THROUGH FLOORS AND WALLS, IN A NEAT FASHION, ARE TO BE PROVIDED BY THIS CONTRACTOR.
6. FOR PENETRATIONS THROUGH A FIRE RATED WALL AND FLOOR/CEILING ASSEMBLIES ARE TO BE FIRESTOPPED WITH APPROVED ULC LISTED FIRESTOP ASSEMBLIES.
7. FOR PENETRATIONS THROUGH NON–RATED ASSEMBLIES CAULK WITH ACOUSTICAL SEALANT.
8. COORDINATE INSTALLATION OF COMPONENTS REQUIRED TO BE CONNECTED TO THE FIRE ALARM SYSTEM WITH THE ELECTRICAL TRADE CONTRACTOR. SUPPLY AND INSTALL ALL NECESSARY DEVICES/POINTS AS REQUIRED BY NATIONAL BUILDING CODE.
9. PROVIDE THREE (3) ADDITIONAL WALL MOUNTED 4.5 kg ABC FIRE EXTINGUISHERS. ONE (1) TO BE INSTALLED IN THE SCALE HOUSE AND TWO (2) TO BE INSTALLED IN THE SITE OFFICE. EXACT LOCATION TO BE DETERMINED.
10. CONTRACTOR TO COORDINATE WITH OTHER TRADES AND ADJUST LAYOUT AS REQUIRED. ADVISE DESIGN ENGINEER OF ALL REQUIRED CHANGES.

SPRINKLER LEGEND

SYMBOL	DESCRIPTION
	SPRINKLER MAIN
	SPRINKLER BRANCH
	PIPE DOWN
	PIPE UP
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	PIPE HANGER
	SHUT–OFF VALVE
	BALL VALVE
	SUPERVISED VALVE
	CHECK VALVE
	HOSE END DRAIN VALVE
	INDICATING OS&Y VALVE (SUPERVISED)
	SPRINKLER VALVE (DRY)
	PRESSURE GAUGE W/ VALVE COCK
	PRESSURE SWITCH
	UNION
	STRAINER
	ELECTRIC GONG
	FIRE DEPARTMENT CONNECTION
M	WATER FLOW METER
	INLINE PUMP
	FLUSHING CONNECTION
	4.5 kg WALL MOUNTED FIRE EXTINGUISHER c/w WALL BRACKET
S	SPILL KIT c/w 75 L PLASTIC DRUM, ONE (1) PAIR GOGGLES, ONE (1) PAIR NITROL GLOVES, FIFTEEN (15) 482 mm x 381 mm UNIVERSAL PADS, TWO (2) 460 mm x 460 mm PILLOWS, THREE (3) 300 mm x 75 mm UNIVERSAL SOCKS, THREE (3) DISPOSAL BAGS, AND TWO (2) 4.5 kg BAGS OF GRANULAR ABSORBENT MATERIAL.
NO / NC	NORMALLY OPEN / NORMALLY CLOSED
XXX RM	ROOM IDENTILFICATION



4 FP-02 FIRE PUMP ROOM ISOMETRIC VIEWS
N.T.S

DESIGN REQUIREMENTS

1. ORDINARY HAZARD GROUP I: FIRE PUMP AND WATER STORAGE ROOM 102, ELECTRICAL ROOM 103, BOILER ROOM 104, AND THE AIR HANDLER MEZZANINE.
2. ORDINARY HAZARD GROUP II: STORAGE ROOM 105 AND PLANT AREA
3. SYSTEM WATER DURATION: 60 min.
4. SYSTEM HOSE DEMAND: NOT APPLICABLE

EQUIPMENT

FP1 FIRE PUMP
VERTICAL INLINE ELECTRIC FIRE PUMP. NOMINAL CAPACITY 1890 L/min (500 usgpm) AT 670 kPa BOOST. CHURN PRESSURE 760 kPa, PRESSURE AT 2,820 L/MIN IS 515 kPa. PROVIDE WITH 50 HP, 575/3/60, 3600 RPM, ODP MOTOR AND WALL MOUNTED CONTROLLER. MOUNT UNIT ON 75 mm HIGH CONCRETE PAD. CONTROLLER TO HAVE A 120 VAC POWER SUPPLY.

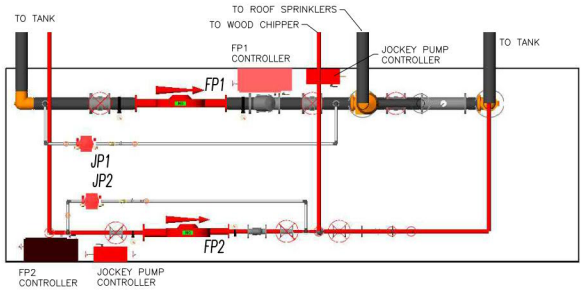
JOCKEY PUMP
746 W, 575/3/60 ELECTRIC JOCKEY PUMP, 20 L/min (5 usgpm) AT 690 kPa BOOST c/w WALL MOUNTED CONTROLLER.

FP2 FIRE PUMP
VERTICAL INLINE ELECTRIC FIRE PUMP. NOMINAL CAPACITY 379 L/min (100 usgpm) AT 410 kPa BOOST. CHURN PRESSURE 415 kPa, PRESSURE AT 570 L/MIN IS 390 kPa. PROVIDE WITH 15 HP, 575/3/60, 3600 RPM, ODP MOTOR AND WALL MOUNTED CONTROLLER. MOUNT UNIT ON 75 mm HIGH CONCRETE PAD. CONTROLLER TO HAVE A 120 VAC POWER SUPPLY.

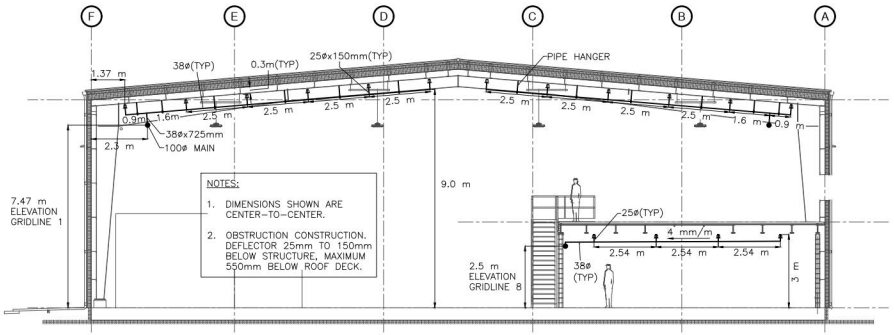
JOCKEY PUMP
746 W, 575/3/60 ELECTRIC JOCKEY PUMP, 20 L/min (5 usgpm) AT 690 kPa BOOST c/w WALL MOUNTED CONTROLLER.

AC1 RISER MOUNT AIR MAINTENANCE/COMPRESSOR
4.4 CUBIC METER CAPACITY AT 124 kPa IN 30 MINUTES. 1 HP @ 120/1/60, 15 A

AC2 RISER MOUNT AIR MAINTENANCE/COMPRESSOR
1.0 CUBIC METER CAPACITY AT 124 kPa IN 30 MINUTES. ¼ HP @ 120/1/60, 4.0 A



2 FP-02 FIRE PUMP ROOM DETAIL
1:50



3 FP-02 BUILDING SECTION
1:50

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WASTE TRANSFER STATION

FIRE PROTECTION SYSTEM

PROJECT NO. 19-9543

SHEET NO. WTS-FP02