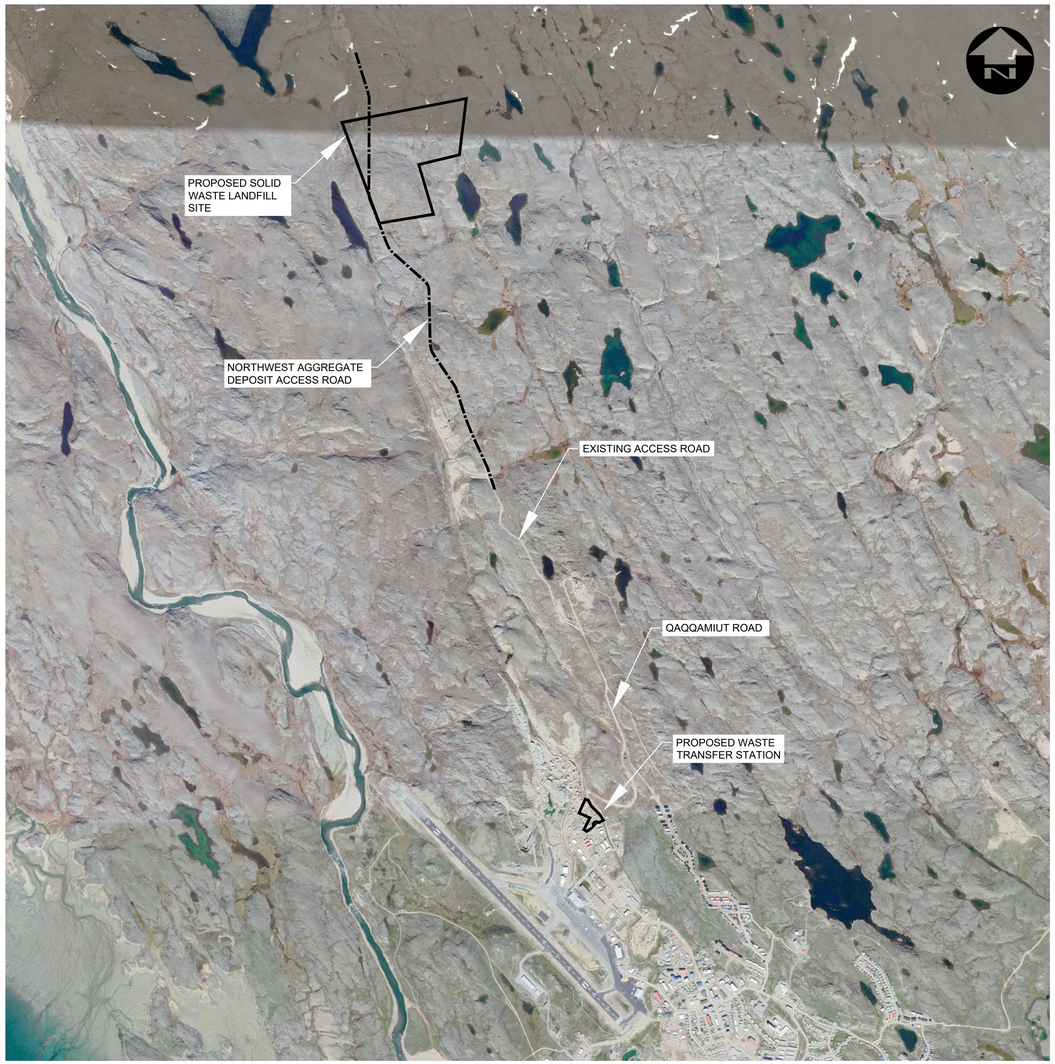
Iqaluit

CITY OF IQALUIT

SOLID WASTE LANDFILL AND WASTE TRANSFER STATION

100% SUBMISSION



KEY PLAN

DILLON PROJECT: 19-9543
DATE: OCTOBER 30, 2020

DILLON CONSULTING

Iqaluit

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CITY OF IQALUIT

SOLID WASTE LANDFILL AND WASTE TRANSFER STATION

DRAWING INDEX - LANDFILL	
DWG.	DESCRIPTION
LF-C01	EXISTING CONDITIONS SITE PLAN
LF-C02	PROPOSED LANDFILL FACILITY LAYOUT
LF-CO3	EROSION CONTROL SITE PLAN & DETAILS
LF-C04	SOUTH PERIMETER ROAD - PLAN & PROFILE
LF-C05	WEST PERIMETER ROAD - PLAN & PROFILE
LF-C06	LEACHATE LAGOONS ROAD - PLAN & PROFILE
LF-C07	CELL 1 ROAD - PLAN & PROFILE
LF-C08	CELL 1 DITCH - PLAN & PROFILE
LF-C09	CELL 1 TOP OF ROUGH GRADED SITE
LF-C10	CELL 1 TOP OF LEACHATE COLLECTION GEOMEMBRANE
LF-C11	CELL 1 TOP OF LINER SYSTEM
LF-C12	CELL 1 TOP OF BALED WASTE
LF-C13	CELL 1 SECTIONS
LF-C14	LEACHATE LAGOONS - PLAN & PROFILE
LF-C15	LEACHATE LAGOONS - SECTIONS & DETAILS
LF-C16	75 YEAR PROPOSED BOTTOM OF LINER SYSTEM
LF-C17	75 YEAR PROPOSED TOP OF FINAL BALED WASTE
LF-C18	LANDFILL SECTIONS 1 TO 3
LF-C19	LANDFILL SECTIONS 4 AND 5
LF-C20	LANDFILL SECTIONS 6 AND 7
LF-C21	LINER DETAILS
LF-C22	SECTIONS AND DETAILS
LF-C23	MISCELLANEOUS DETAILS

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
	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, MANIFOLDS & 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
	MECHANICAL
WTS-M01	MECHANICAL LAYOUT - PLUMBING, HVAC & FIRE PROTECTION
WTS-M02	LARGE SCALE BOILER ROOM LAYOUT
WTS-M03	MECHANICAL LAYOUT - MEZZANINE PLAN
WTS-M04	SITE OFFICE - MECHANICAL LAYOUT
WTS-M05	MECHANICAL SECTIONS & DETAILS
WTS-M06	HYDRONIC HEATING SYSTEM - FLOW DIAGRAM
WTS-M07	MECHANICAL SCHEDULES
WTS-M08	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

DILLON PROJECT: 19-9543

DATE: OCTOBER 30, 2020

DILLON CONSULTING

N 7076811.317
E 521471.650
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LONG. W68° 33' 49.85"

N 7076611.105
E 520430.739
LAT. N63° 48' 58.70"
LONG. W68° 35' 06.06"

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E 521413.790
LAT. N63° 48' 49.72"
LONG. W68° 33' 54.32"

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E 521073.388
LAT. N63° 48' 47.17"
LONG. W68° 34' 19.25"

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50m

SW-101
SW-102
SW-103
SW-100

BH-101
BH-102
BH-103
BH-104
BH-105
BH-106

W-107 T-107
W-108 T-108
W-109 T-109
W-110 T-110
W-111 T-111

N7076500
N7076000
E520000
E520500
E521000
E521500
E522000

SCALE 1:2,500
50 0 50
METRES

LEGEND:

- SITE PROPERTY BOUNDARY
- FUTURE ROAD
- 50m BUFFER
- BOULDER FIELD
- GLACIOFLUVIAL TERRACE
- SURFACE WATER PONDING
- SURFACE WATER FLOW
- BEDROCK OUTCROP
- BH-101 BOREHOLES
- T-108 THERMISTOR
- W-108 ACTIVE WATER MONITOR STATION
- SW-101 SURFACE WATER STATION

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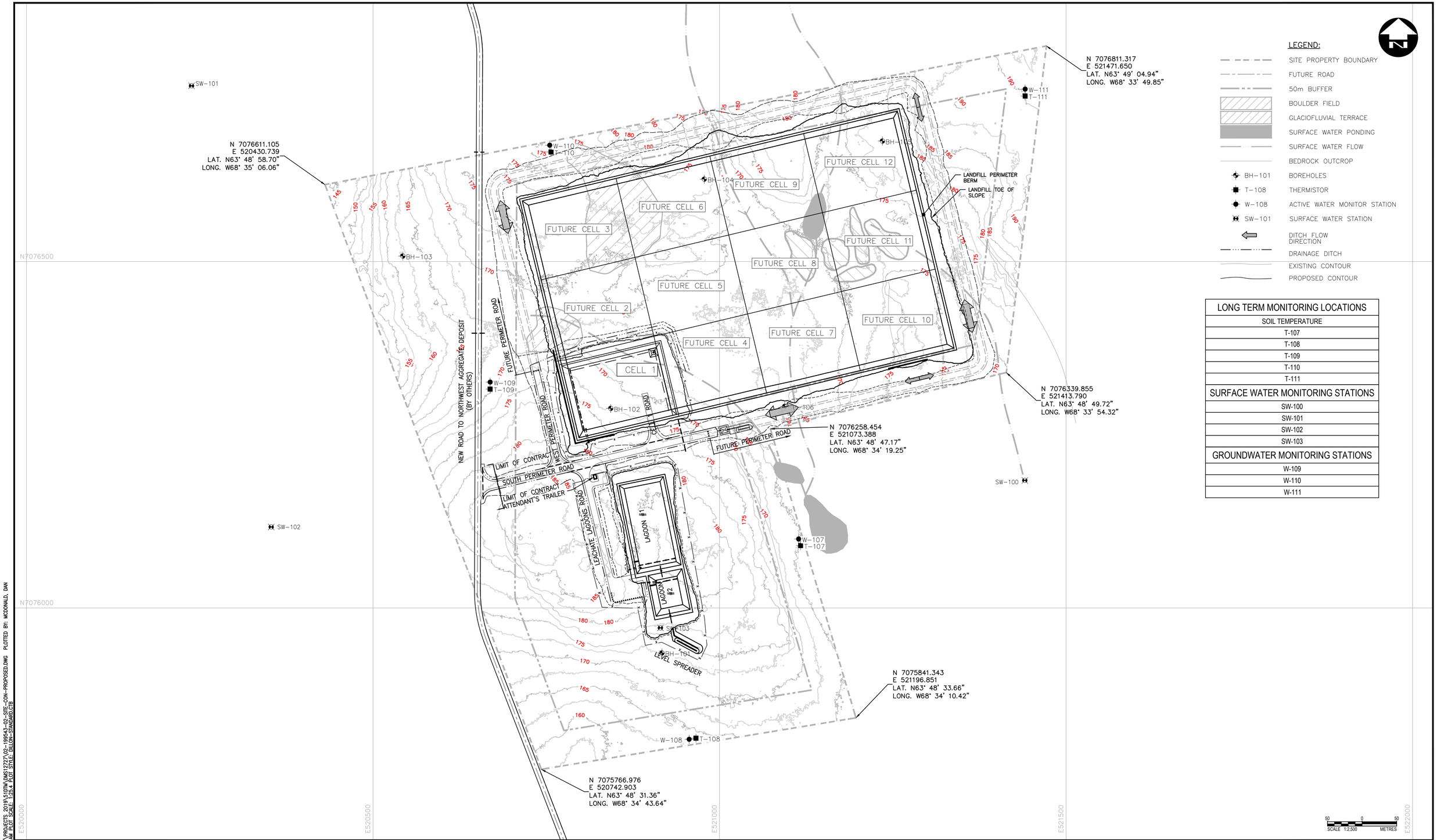
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REVIEWED BY	S.D.K.
DRAWN	D.B.C./ D.T.M.
CHECKED BY	K.B.
DATE	MAY 2019
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CITY OF IQALUIT
SOLID WASTE LANDFILL

EXISTING CONDITIONS SITE PLAN

PROJECT NO. 19-9543

SHEET NO. LF-C01



LEGEND:

- SITE PROPERTY BOUNDARY
- FUTURE ROAD
- 50m BUFFER
- BOULDER FIELD
- GLACIOFLUVIAL TERRACE
- SURFACE WATER PONDING
- SURFACE WATER FLOW
- BEDROCK OUTCROP
- BH-101 BOREHOLES
- T-108 THERMISTOR
- W-108 ACTIVE WATER MONITOR STATION
- SW-101 SURFACE WATER STATION
- DITCH FLOW DIRECTION
- DRAINAGE DITCH
- EXISTING CONTOUR
- PROPOSED CONTOUR

LONG TERM MONITORING LOCATIONS
SOIL TEMPERATURE
T-107
T-108
T-109
T-110
T-111
SURFACE WATER MONITORING STATIONS
SW-100
SW-101
SW-102
SW-103
GROUNDWATER MONITORING STATIONS
W-109
W-110
W-111

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DRAWN D.B.C./ D.T.M. | CHECKED BY K.B.
DATE MAY 2019
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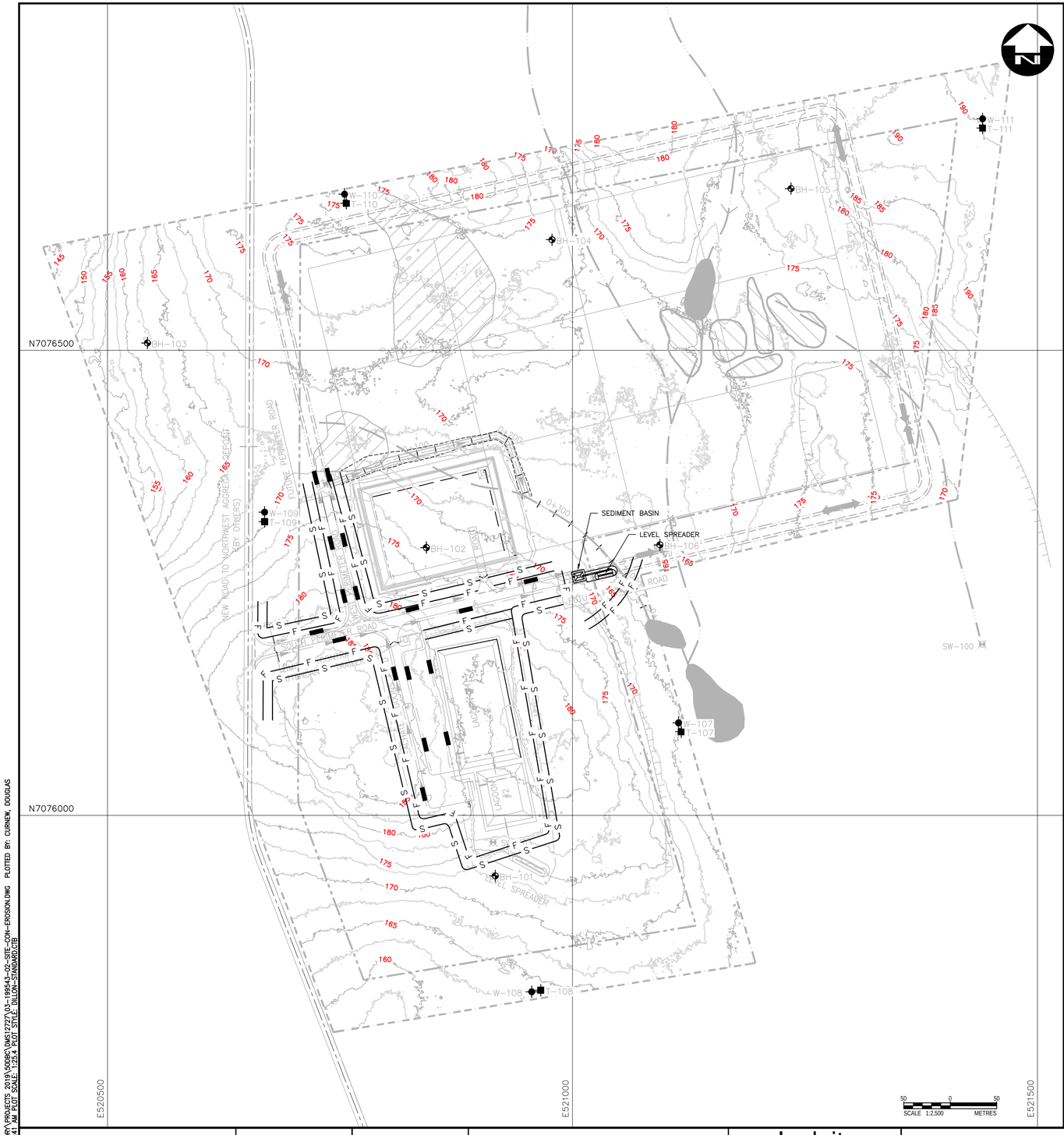
CITY OF IQALUIT
SOLID WASTE LANDFILL

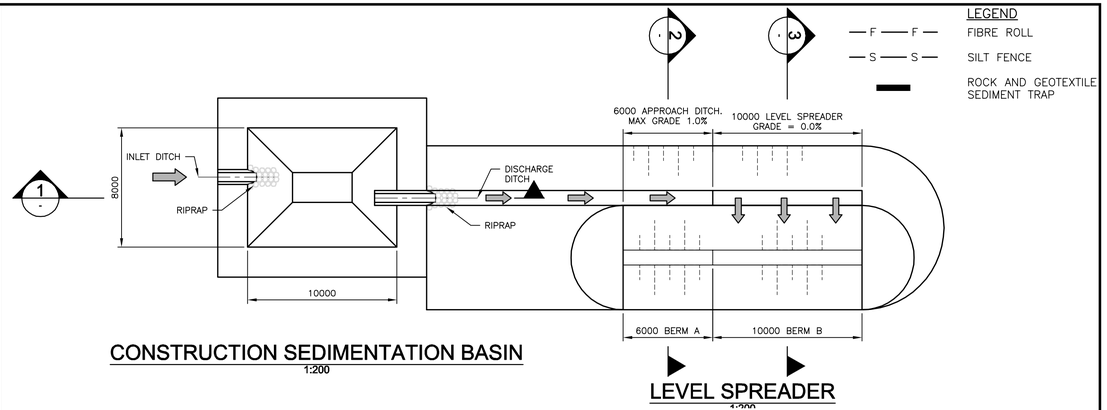
PROJECT NO. 19-9543

PROPOSED LANDFILL FACILITY LAYOUT

SHEET NO. LF-C02

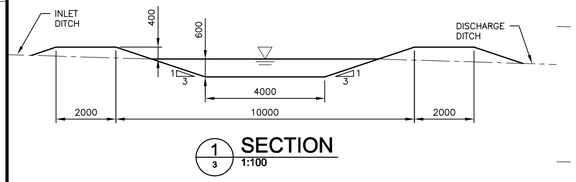
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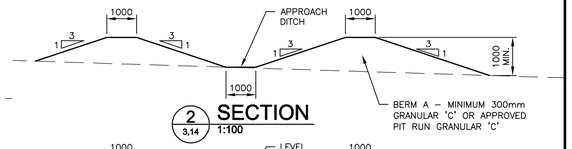


CONSTRUCTION SEDIMENTATION BASIN
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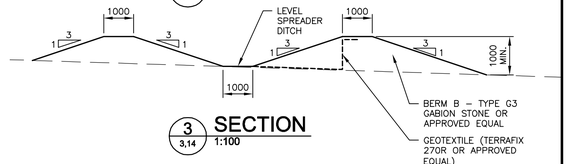
LEVEL SPREADER
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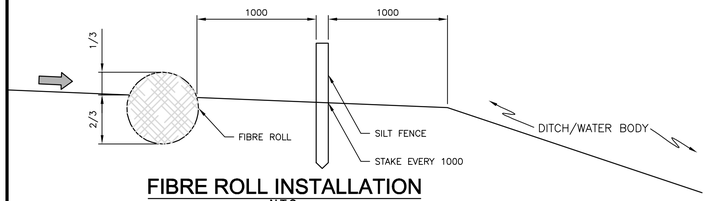
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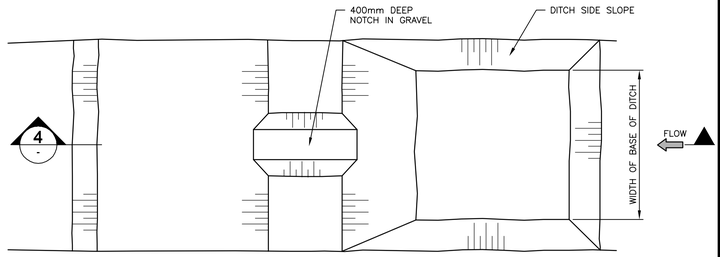
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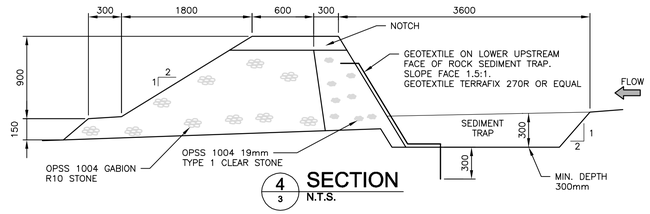
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FIBRE ROLL INSTALLATION
NTS



PLAN



4/3 SECTION
N.T.S.

ROCK AND GEOTEXTILE SEDIMENT TRAP
N.T.S.

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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	MAY 2019
SCALE	1:2500 (22x34) 1:5000 (11x17)

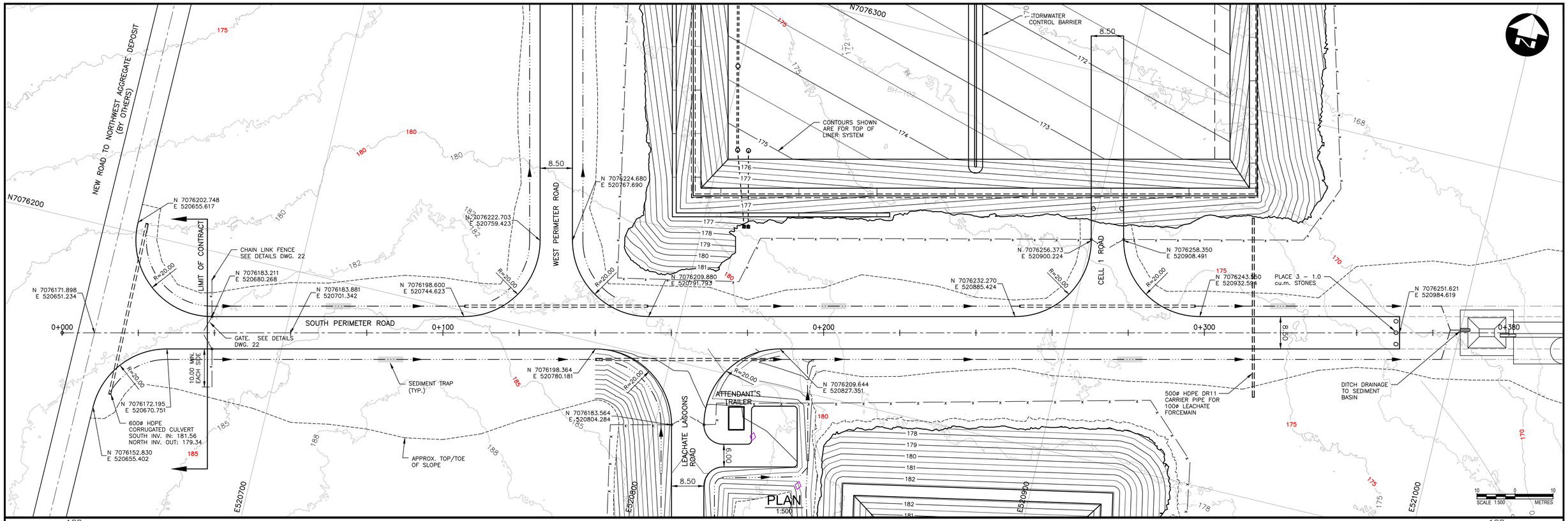
CITY OF IQALUIT
SOLID WASTE LANDFILL

EROSION CONTROL SITE PLAN & DETAILS

PROJECT NO. 19-9543

SHEET NO. LF-C03

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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: MAY 2019
SCALE: AS NOTED

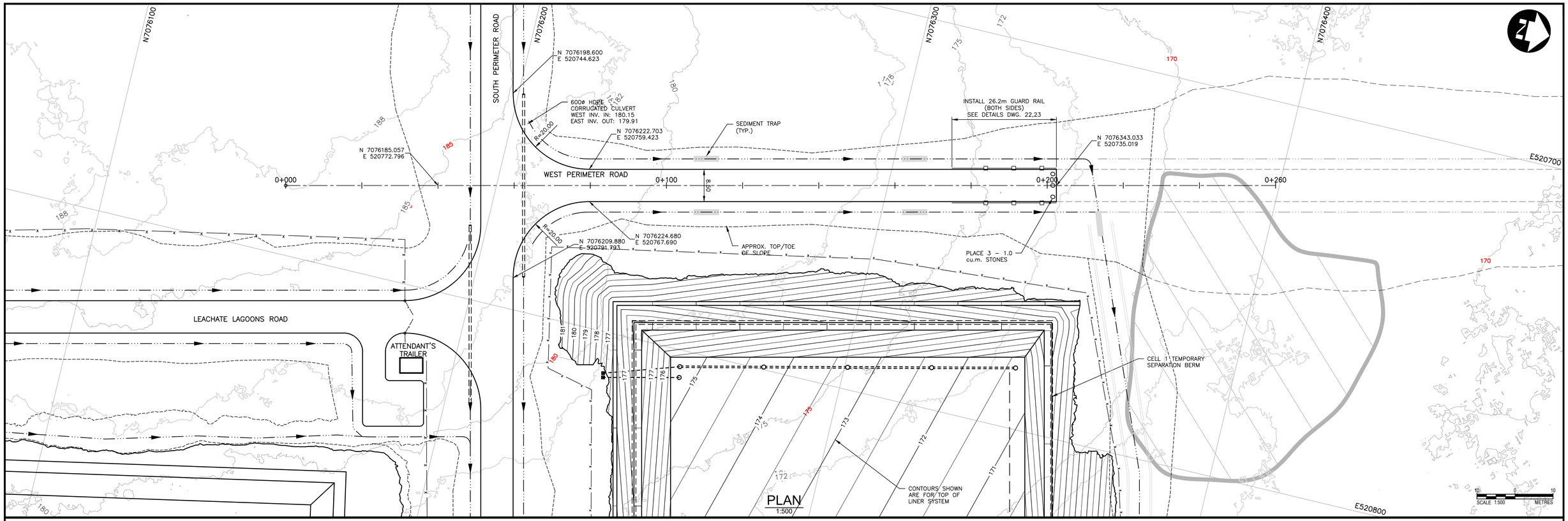
CITY OF IQALUIT
SOLID WASTE LANDFILL

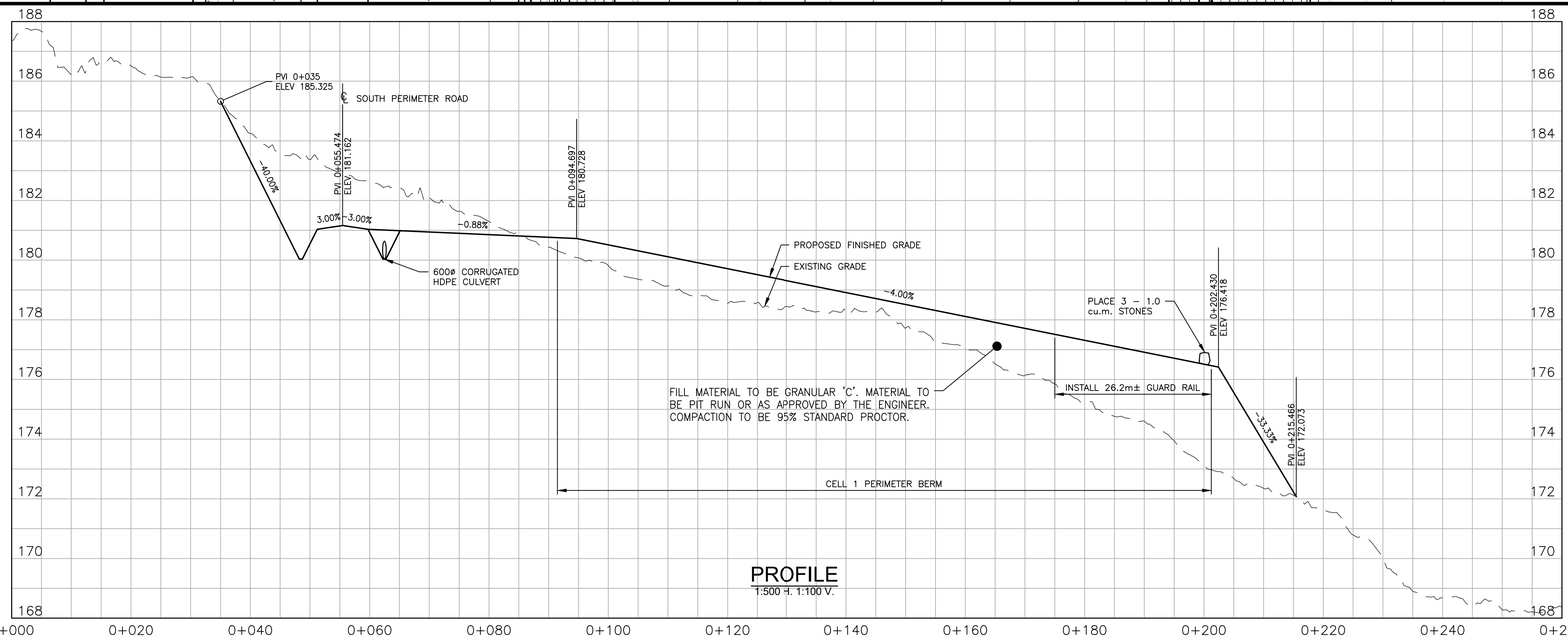
PROJECT NO. 19-9543

SOUTH PERIMETER ROAD PLAN & PROFILE

SHEET NO. LF-C04

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DRAWN: D.B.C./ D.T.M.	CHECKED BY: K.B.
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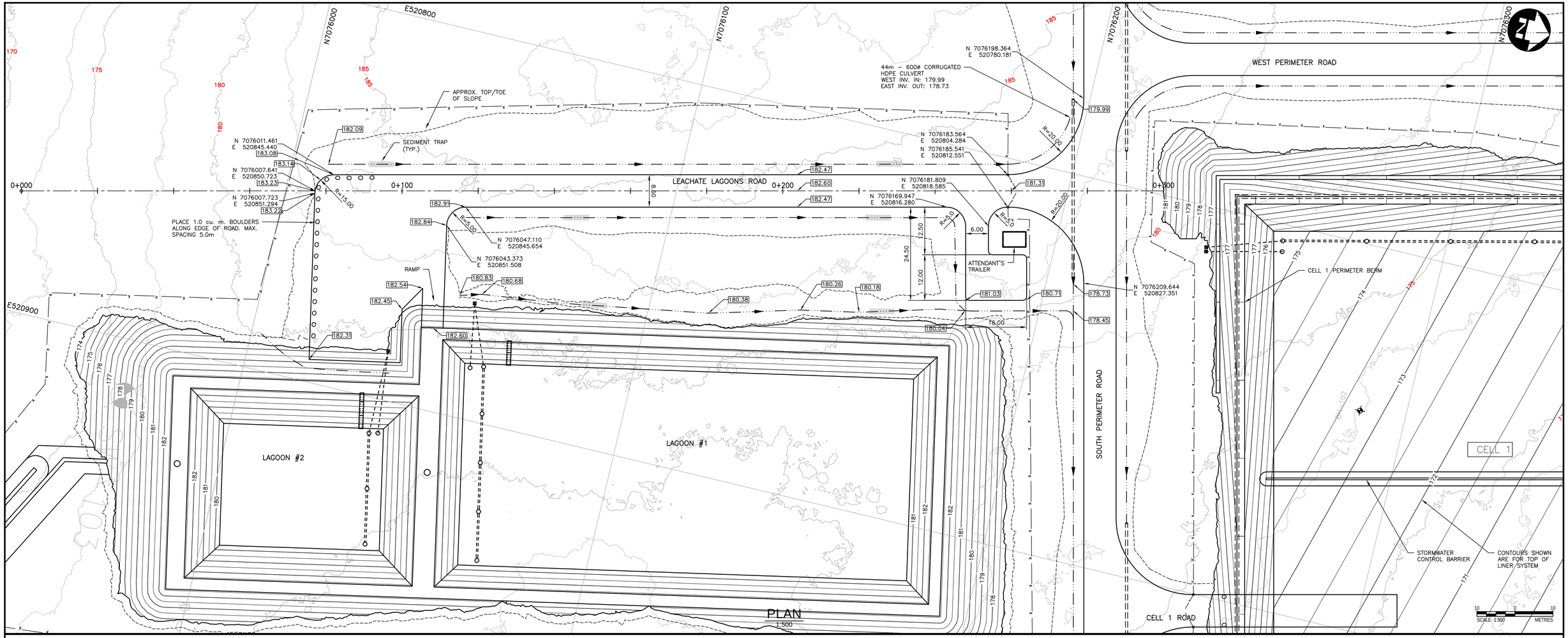
CITY OF IQALUIT
SOLID WASTE LANDFILL

PROJECT NO. 19-9543

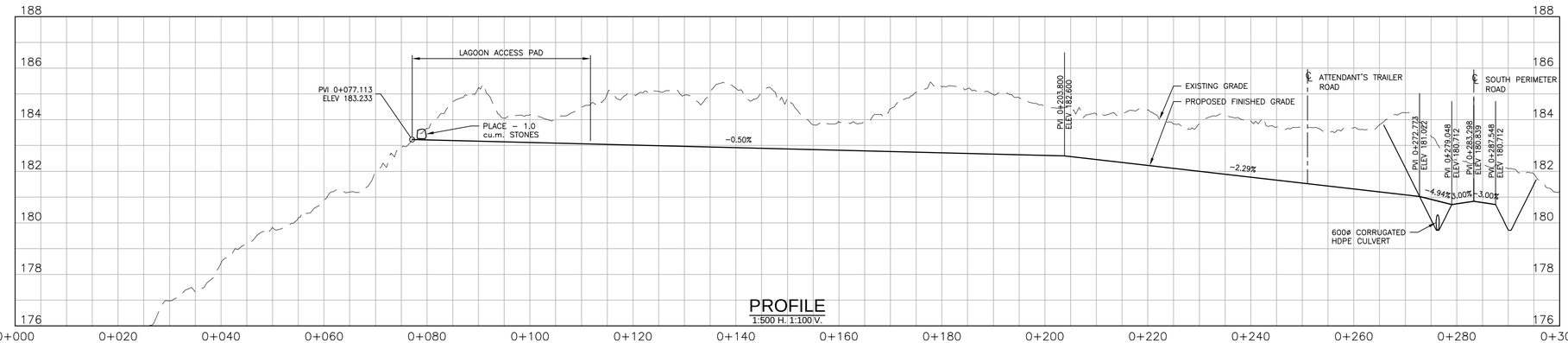
WEST PERIMETER ROAD PLAN & PROFILE

SHEET NO. LF-C05

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PLAN
1:500



PROFILE
1:500 H. 1:100 V.

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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	MAY 2019
SCALE	AS NOTED

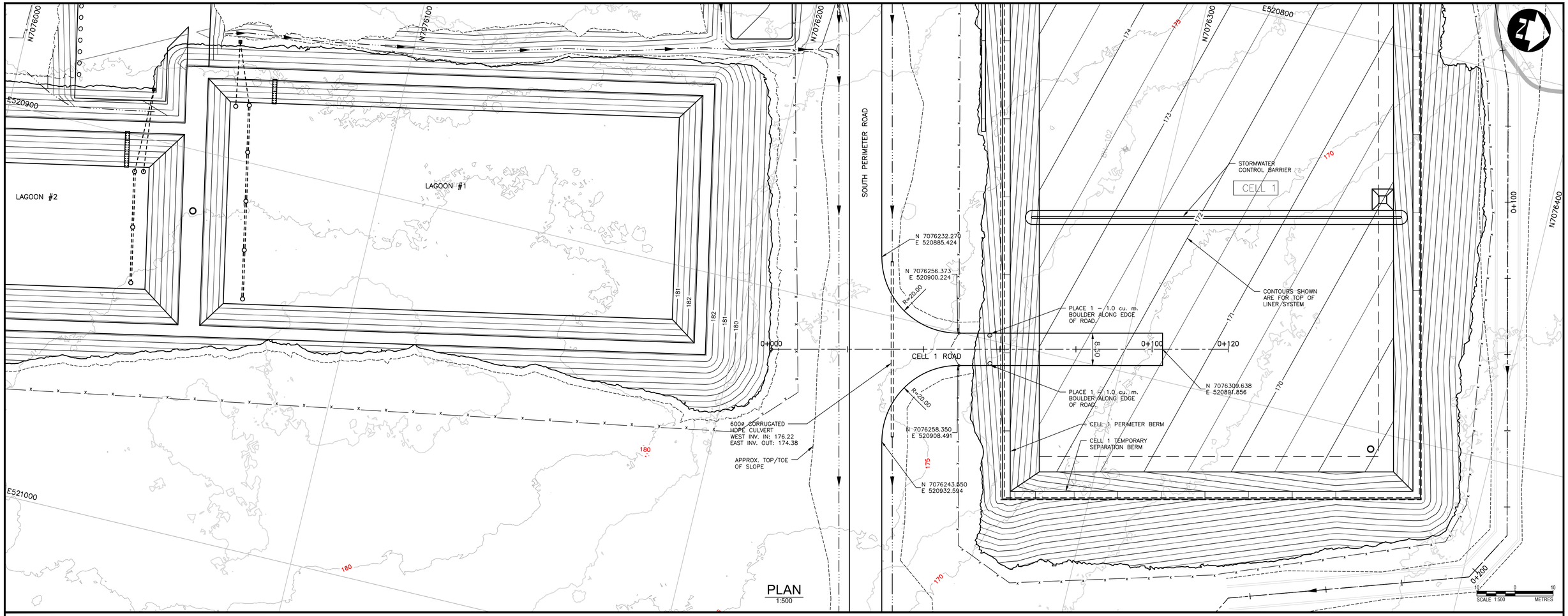
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PROJECT NO. 19-9543

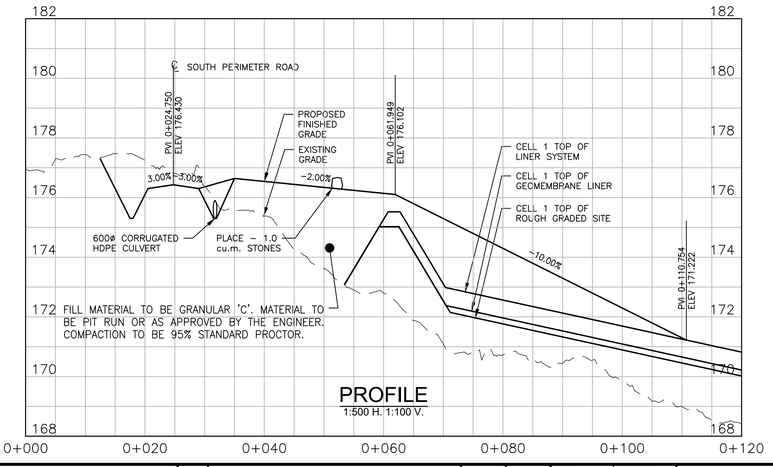
LEACHATE LAGOONS ROAD
PLAN & PROFILE

SHEET NO. LF-C06

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PLAN
1:500



PROFILE
1:500 H. 1:100 V.

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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 MAY 2019	
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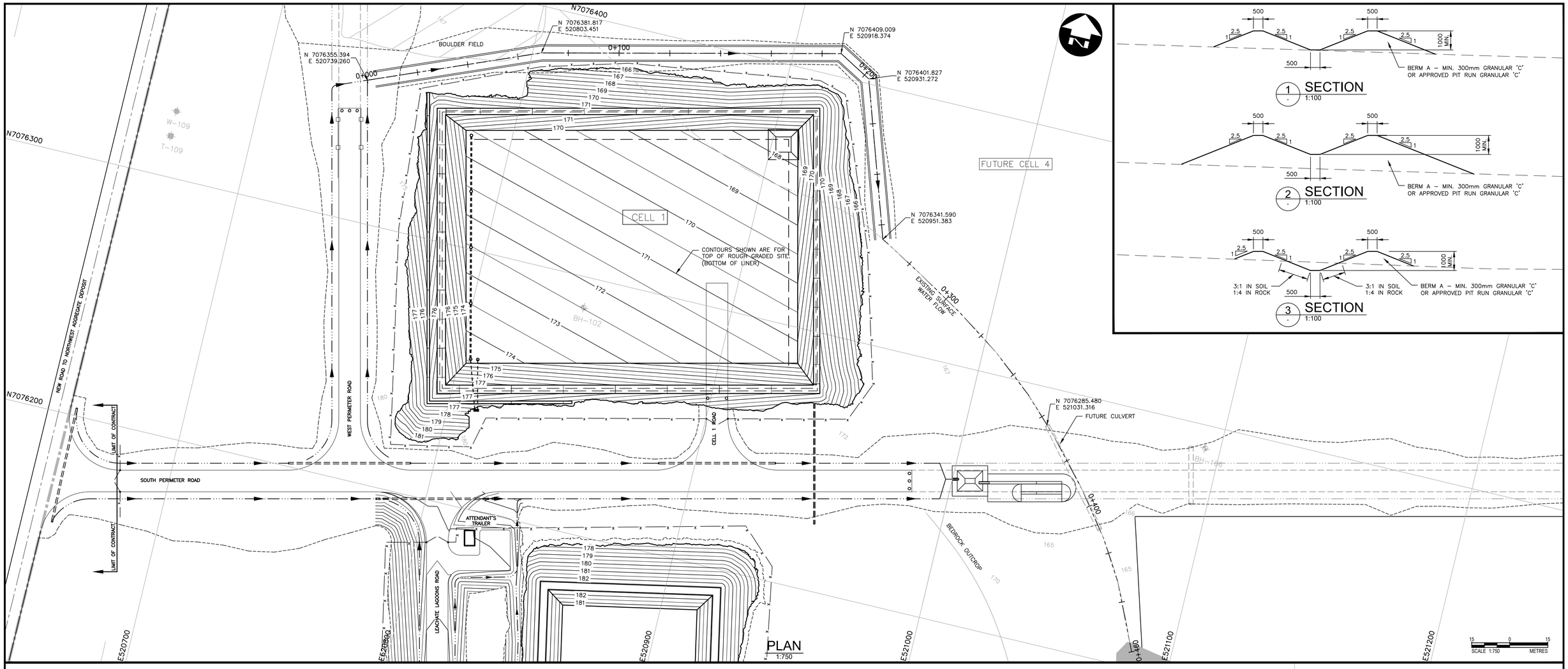
CITY OF IQALUIT
SOLID WASTE LANDFILL

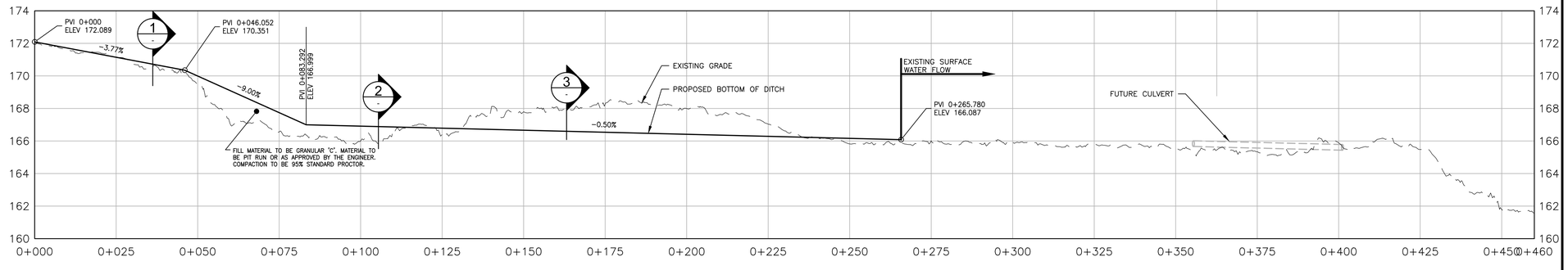
CELL 1 ROAD PLAN AND PROFILE

PROJECT NO. 19-9543

SHEET NO. LF-C07

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PLOT DATE: 2020-10-29 @ 10:09:40 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB





PROFILE
1:750 H. 1:150 V.

Conditions of Use

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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	MAY 2019
SCALE	AS NOTED

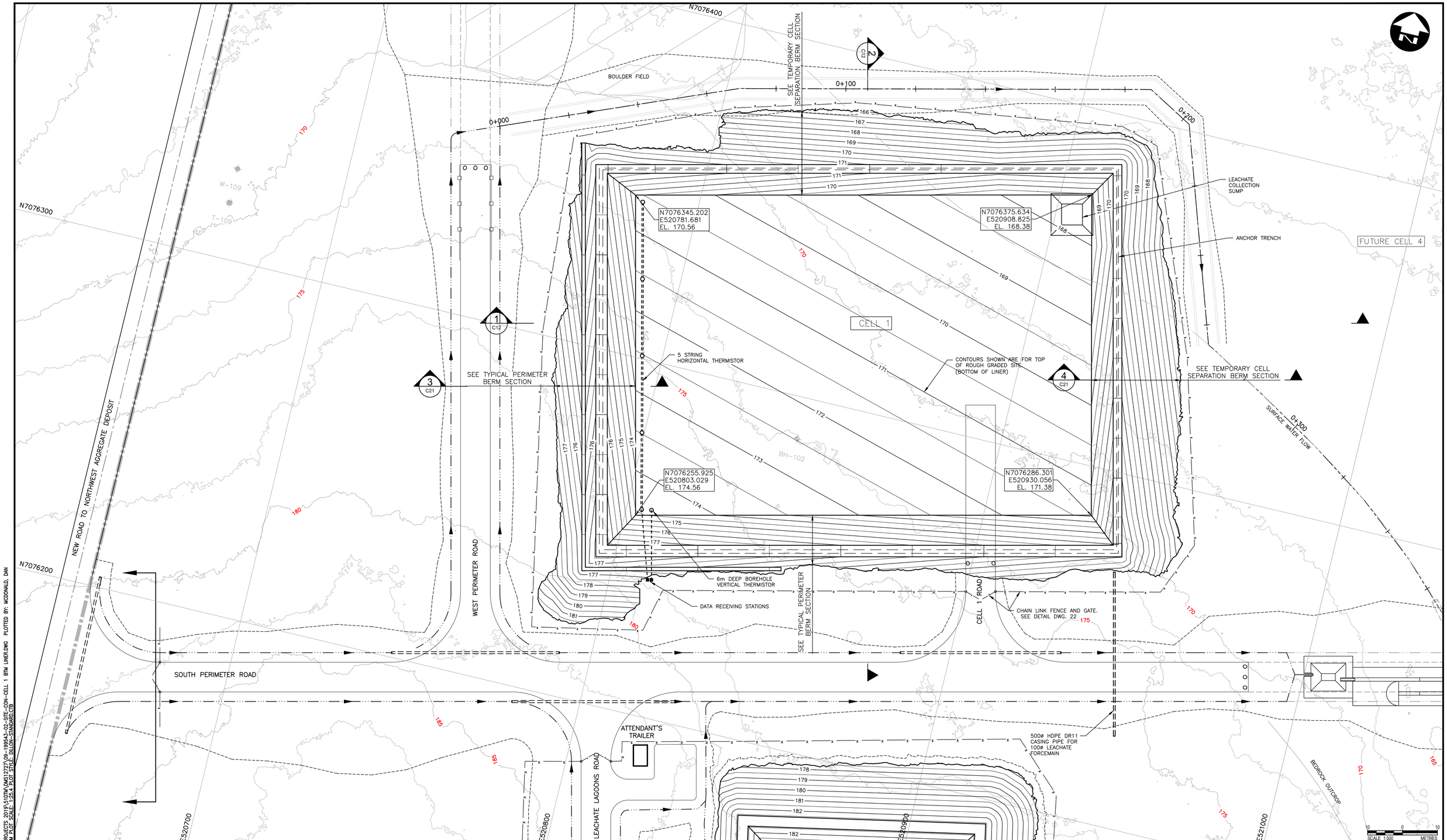
CITY OF IQALUIT
SOLID WASTE LANDFILL

CELL 1 DITCH - PLAN AND PROFILE

PROJECT NO. 19-9543

SHEET NO. LF-C08

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\51DTM\DM\127227\08--195543--02--SITE--CON--CELL 1 DITCH.DWG PLOTTED BY: MCDONALD, DAN
PLOT DATE: 2020--10--29 @ 10:05:58 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\$1DTM\DM512727\09-19543-02-SITE_CON-CELL 1 BTM LINER.DWG PLOTTED BY: MCDONALD, DAN
PLOT DATE: 2020-10-29 @ 10:10:10 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB

Conditions of Use

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

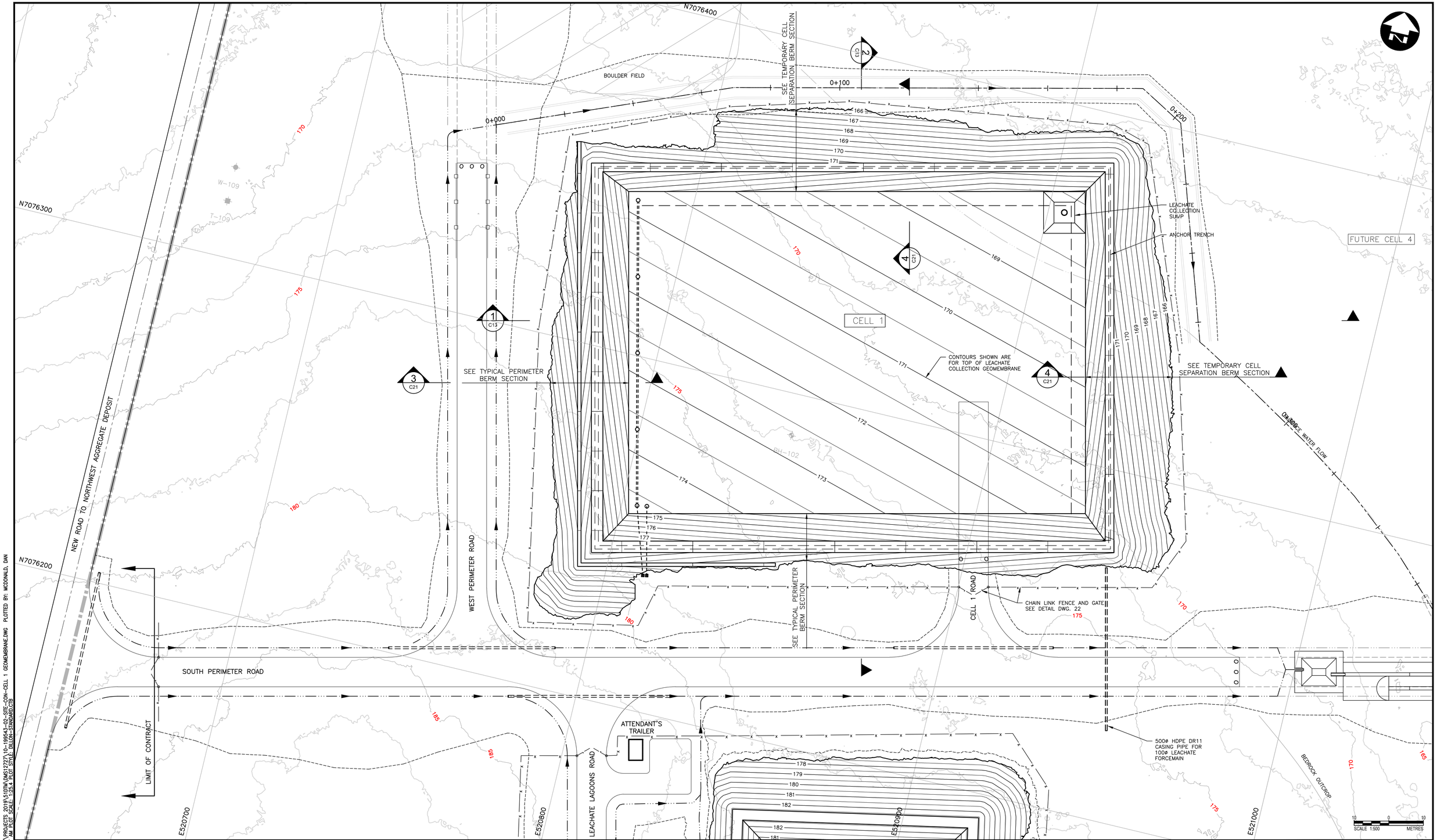
DESIGN C.R.S.	REVIEWED BY S.D.K.
DRAWN D.B.C./ D.T.M.	CHECKED BY K.B.
DATE MAY 2019	
SCALE 1:500 (22x34) 1:1000 (11x17)	

CITY OF IQALUIT
SOLID WASTE LANDFILL

PROJECT NO. 19-9543

CELL 1 - TOP OF ROUGH GRADED SITE

SHEET NO. LF-C09



Conditions of Use

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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	MAY 2019
SCALE	1:500 (22x34) 1:1000 (11x17)

CITY OF IQALUIT
SOLID WASTE LANDFILL

PROJECT NO. 19-9543

CELL 1 - TOP OF LEACHATE COLLECTION GEOMEMBRANE

SHEET NO. LF-C10

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\51DTM\DWG\12727\10-19543-02-SITE-CON-CELL 1 GEOMEMBRANE.DWG PLOTTED BY: MCDONALD, DAN
PLOT DATE: 2020-10-29 @ 10:31:17 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB

N7076400
N7076300
N7076200
0+000
0+100
0+200
SEE TEMPORARY CELL SEPARATION BERM SECTION
BOULDER FIELD
CHAIN LINK FENCE
STORMWATER COLLECTION SUMP. PUMP TO WEST PERIMETER ROAD DITCH
LEACHATE COLLECTION SUMP
ANCHOR TRENCH
FUTURE CELL 4
TEMPORARY STORMWATER CONTROL BARRIER – TO BE REMOVED PRIOR TO WASTE BEING PLACED IN WESTERN PORTION OF CELL 1
4m BALE SETBACK FROM INTERIOR OF BERM
CELL 1
CONTOURS SHOWN ARE FOR TOP OF LINER SYSTEM
SEE TYPICAL PERIMETER BERM SECTION
SEE TEMPORARY CELL SEPARATION BERM SECTION
OVERLAND WATER FLOW
NEW ROAD TO NORTHWEST AGGREGATE DEPOSIT
WEST PERIMETER ROAD
SEE TYPICAL PERIMETER BERM SECTION
CELL 1 ROAD
CHAIN LINK FENCE AND GATE. SEE DETAILS DWG. 22
SOUTH PERIMETER ROAD
LIMIT OF CONTRACT
ATTENDANT'S TRAILER
LEACHATE LAGOONS ROAD
500ø HDPE DR11 CASING PIPE FOR 100ø LEACHATE FORCEMAIN
BEDROCK OUTCROP
BH-102
W-109
T-109
E520700
E520800
E520900
E521000
SCALE 1:500
METRES

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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	MAY 2019
SCALE	1:500 (22x34) 1:1000 (11x17)

CITY OF IQALUIT
SOLID WASTE LANDFILL

PROJECT NO. 19-9543

CELL 1 - TOP OF LINER SYSTEM

SHEET NO. LF-C11

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\51DTM\DWG\12727\11-19543-02-SITE-CON-CELL 1 TOP LINER.DWG PLOTTED BY: MCDONALD, DAN
PLOT DATE: 2020-10-29 @ 10:29:54 AM PLOT SCALE: 1:29.4 PLOT STYLE: DILLON-STANDARD.CTB

N7076400
N7076300
N7076200
E520700
E520800
E520900
E521000
0+000
0+100
0+200
BOULDER FIELD
NEW ROAD TO NORTHWEST AGGREGATE DEPOSIT
WEST PERIMETER ROAD
CELL 1 ROAD
SOUTH PERIMETER ROAD
LEACHATE LAGOONS ROAD
LIMIT OF CONTRACT
ATTENDANT'S TRAILER
LEACHATE COLLECTION SUMP
ANCHOR TRENCH
FUTURE CELL 4
CELL 1
CONTOURS SHOWN ARE FOR TOP OF BALED WASTE
SURFACE WATER FLOW
BEDROCK OUTCROP
W-109
T-109
SCALE 1:500 METRES

Conditions of Use

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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	MAY 2019
SCALE	1:500 (22x34) 1:1000 (11x17)

CITY OF IQALUIT
SOLID WASTE LANDFILL

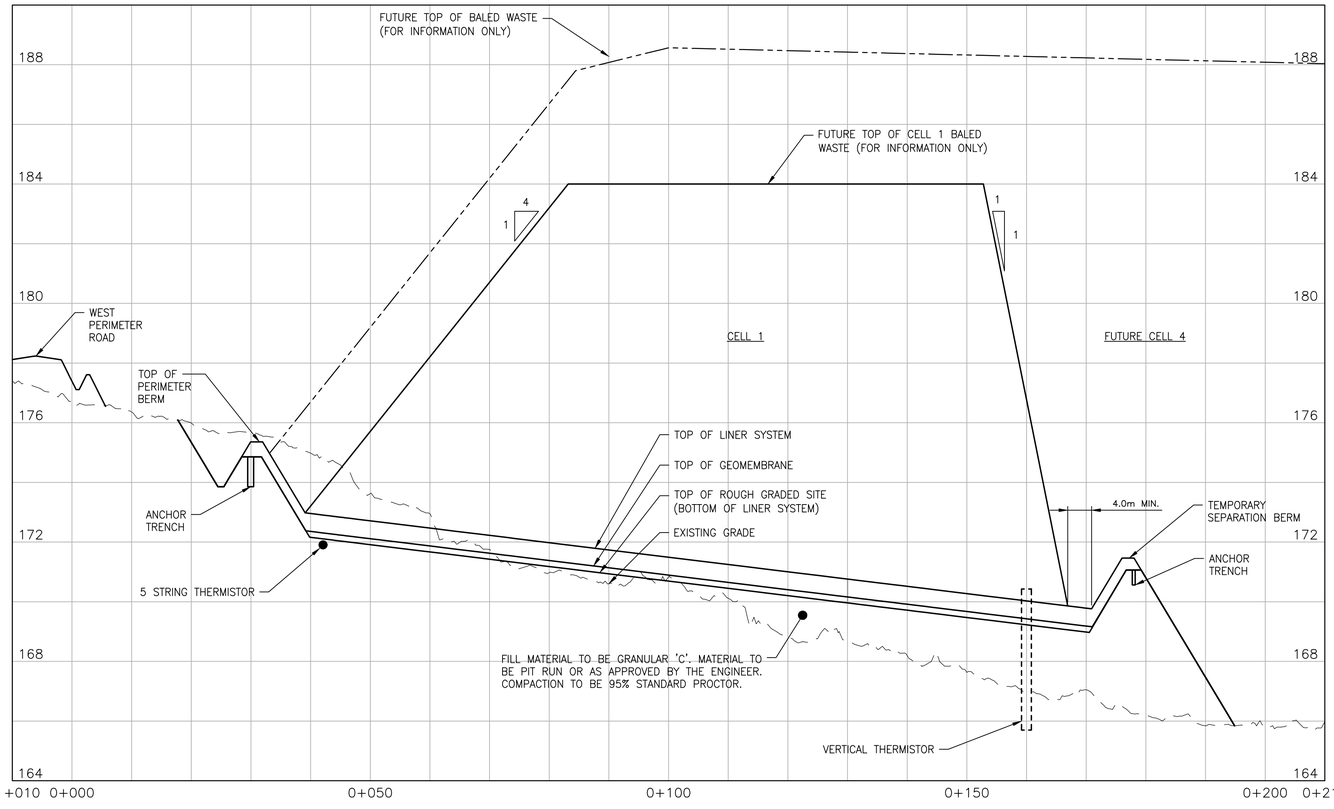
PROJECT NO. 19-9543

CELL 1 - TOP OF BALED WASTE

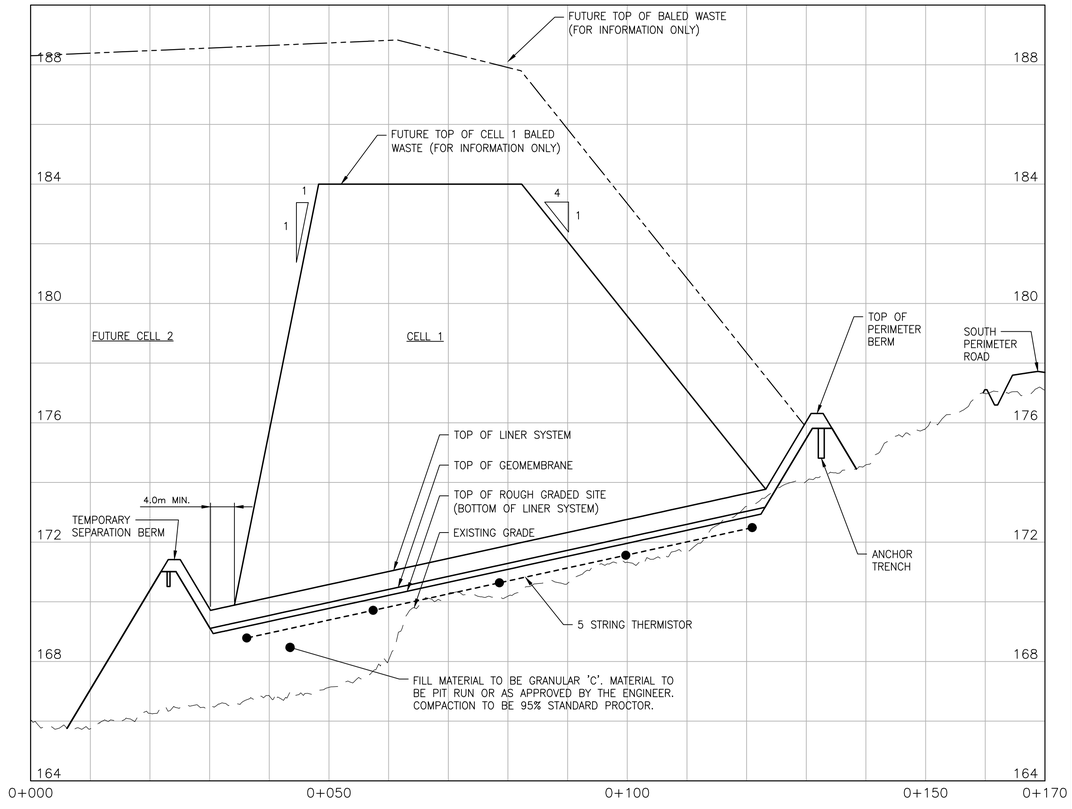
FOR INFORMATION ONLY

SHEET NO. LF-C12

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\51DTM\DM\121727\12-19543-02-SITE-CON-CELL 1 WASTE.DWG PLOTTED BY: MCDONALD, DAN
PLOT DATE: 2020-10-29 @ 10:40:40 AM PLOT SCALE: 125.4 PLOT STYLE: DILLON-STANDARD.CTB



1 SECTION
9,10,11,12 1:750 H. 1:150 V.



2 SECTION
9,10,11,12 1:750 H. 1:150 V.

10 0 10
SCALE 1:500 METRES

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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 MAY 2019
SCALE 1:500 (22x34) 1:1000 (11x17)

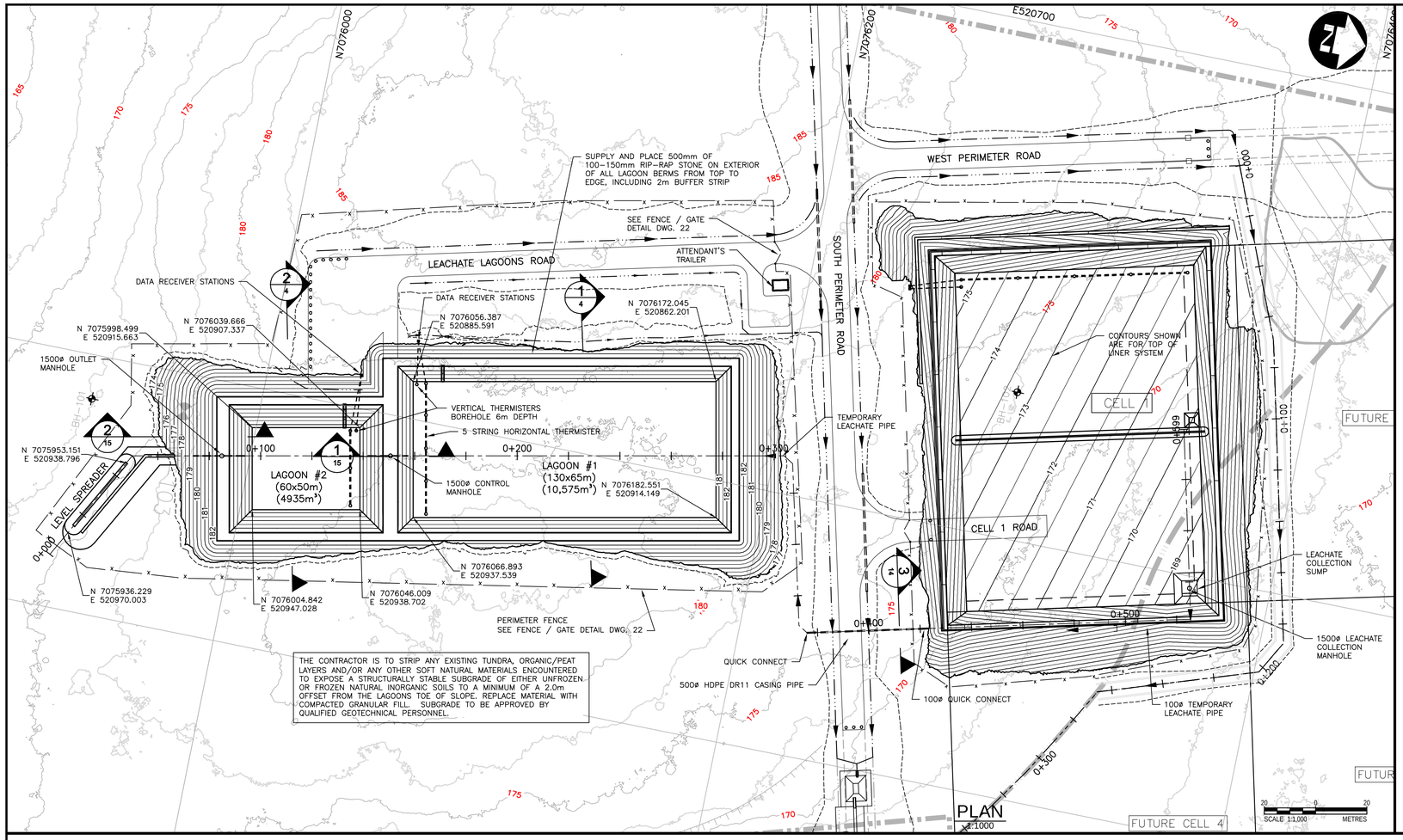
CITY OF IQALUIT
SOLID WASTE LANDFILL

CELL 1 SECTIONS

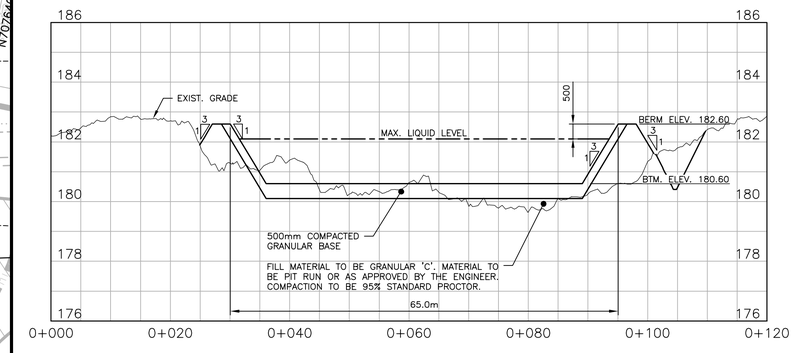
PROJECT NO. 19-9543

SHEET NO. LF-C13

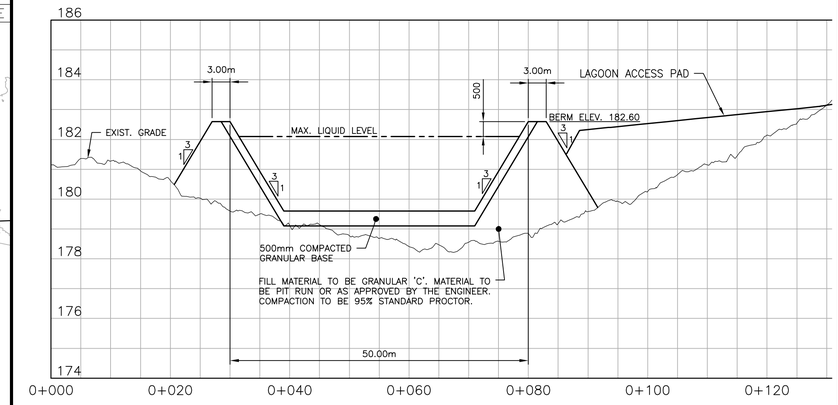
FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\51DTM\DMS1272Z7\1_19543-02-SITE-CON-CELL 1 SECTIONS.DWG PLOTTED BY: MCDONALD, DAN
PLOT DATE: 2020-10-29 @ 10:45:56 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



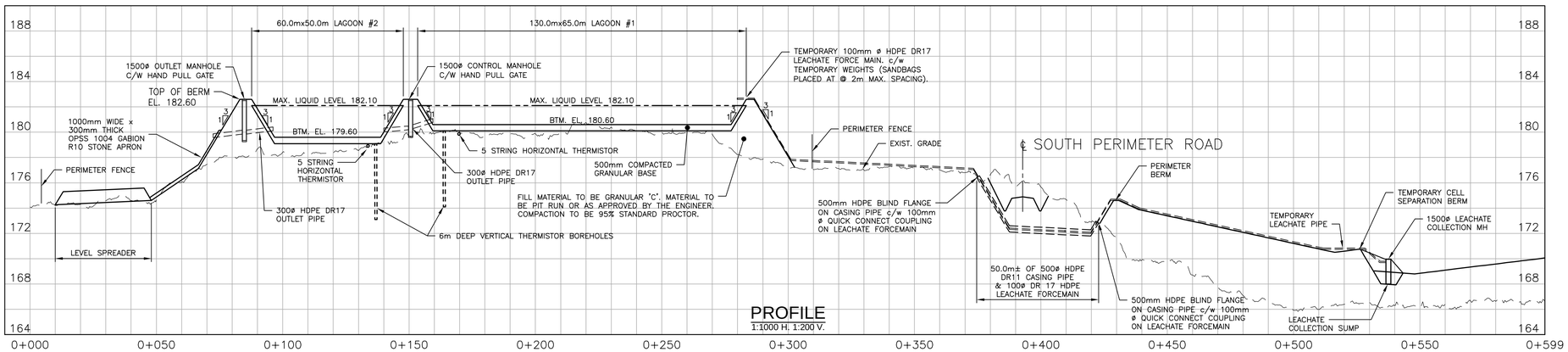
PLAN
1:1000



1 SECTION
14 1:500



2 SECTION
14 1:500



PROFILE
1:1000 H, 1:200 V.

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2	50% REVIEW	2019/10/23	K.B.
1	30% REVIEW	2019/06/04	K.B.

DESIGN	K.R.M.
REVIEWED BY	S.D.K.
DRAWN	D.B.C./ D.T.M.
CHECKED BY	K.B.
DATE	MAY 2019
SCALE	1:1000 (22x34) 1:2000 (11x17)

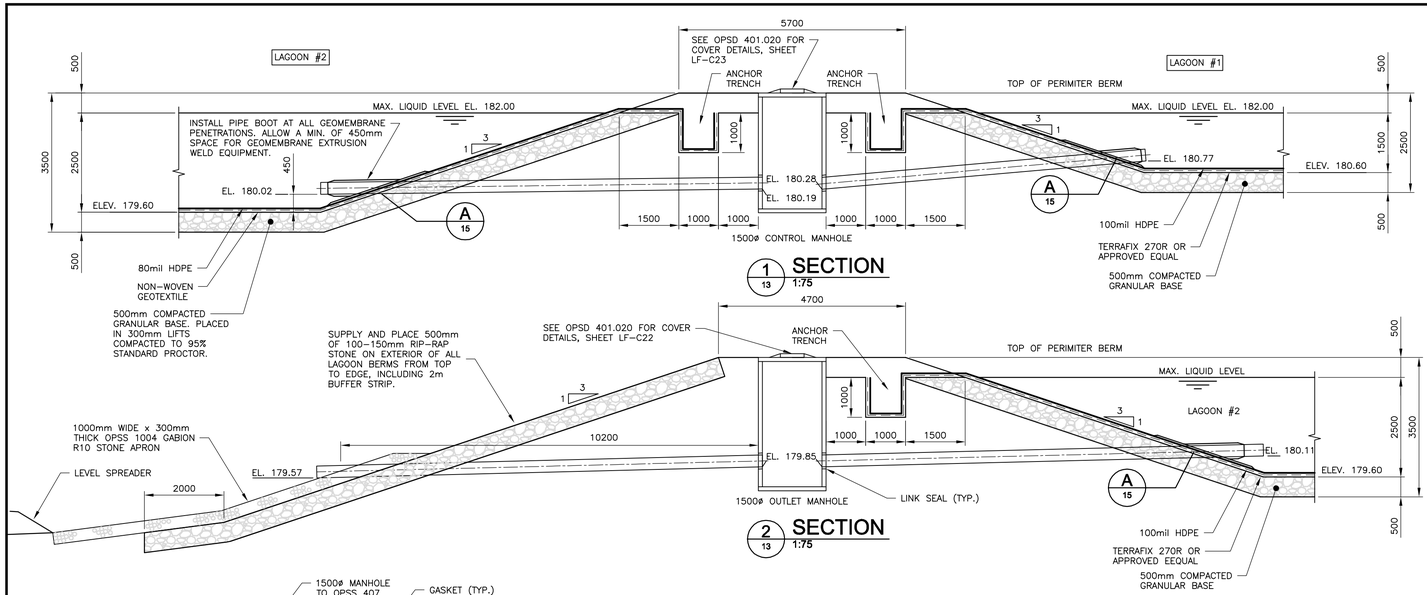
CITY OF IQALUIT
SOLID WASTE LANDFILL

LEACHATE LAGOONS
PLAN & PROFILE

PROJECT NO. 19-9543

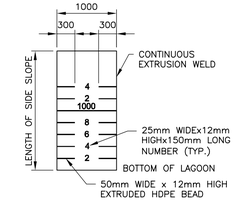
SHEET NO. LF-C14

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\VOBFG\DMS172271\14-19543-02-SITE-CON-LEACHATE.DWG PLOTTED BY: CURNEW, DOUGLAS
PLOT DATE: 2020-12-15 @ 12:58:16 PM PLOT SCALE: 1:254.4 PLOT STYLE: DILLON-STANDARD.CTB

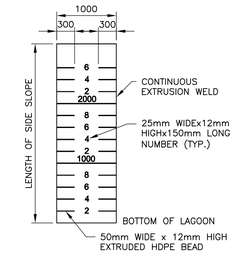


1 13 SECTION
1:75

2 13 SECTION
1:75

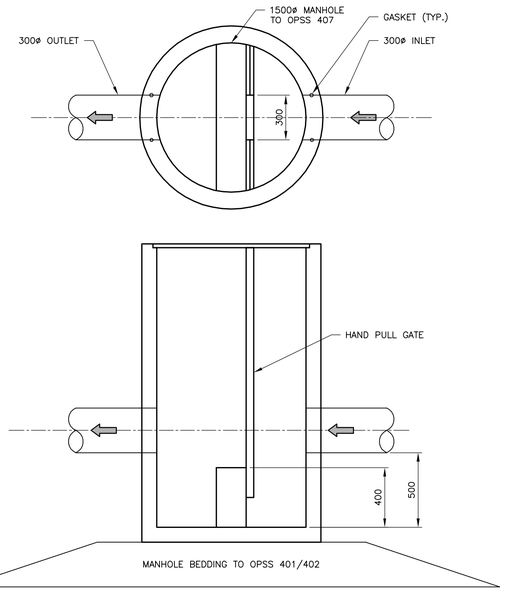


LAGOON 1 DEPTH GAUGE

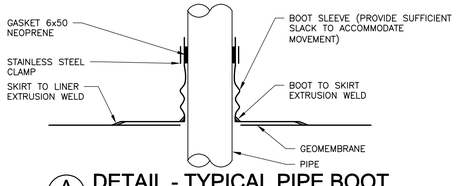


LAGOON 2 DEPTH GAUGE

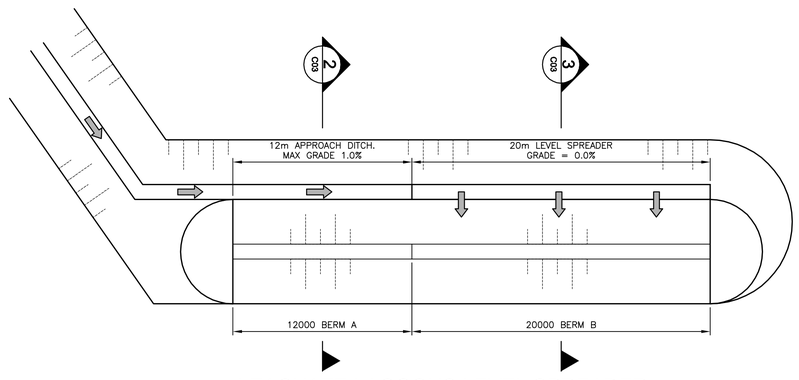
NOTE:
1. ALL EARTHWORKS TO BE IN ACCORDANCE WITH EXP GEOTECHNICAL REPORT U.N.O.
2. LINER AND GEOTEXTILE TO BE CERTIFIED FOR ARCTIC INSTALLATIONS
3. ESTIMATED SETTLEMENT OVER THE LIFE OF THE LAGOONS IS UP 150mm. CONTRACTOR SHALL SUBMIT LINER INSTALLATION PLAN C/W THERMAL AND SETTLEMENT COMPENSATION PROTOCOLS. AT A MINIMUM, FOLDS SHALL BE INSTALLED TO PREVENT STRETCHING OR TEARING OF THE LINER.
4. SUBGRADE SHALL BE PROOFROLLED PRIOR TO PLACEMENT OF GRAVELS, UNDER SUPERVISION OF GEOTECHNICAL ENGINEER.



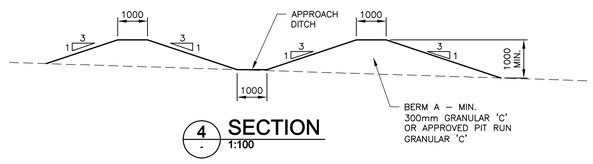
TYPICAL LAGOON 1500Ø MANHOLE
N.T.S.



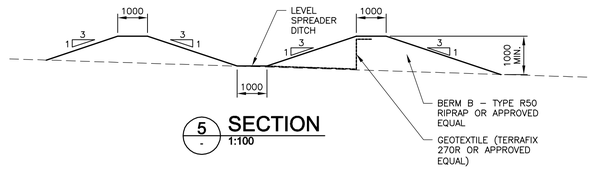
A - DETAIL - TYPICAL PIPE BOOT
N.T.S.



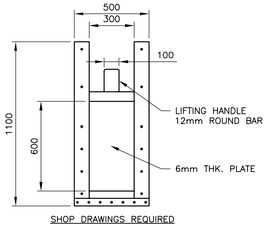
LEACHATE LAGOONS LEVEL SPREADER
1:200



4 - SECTION
1:100

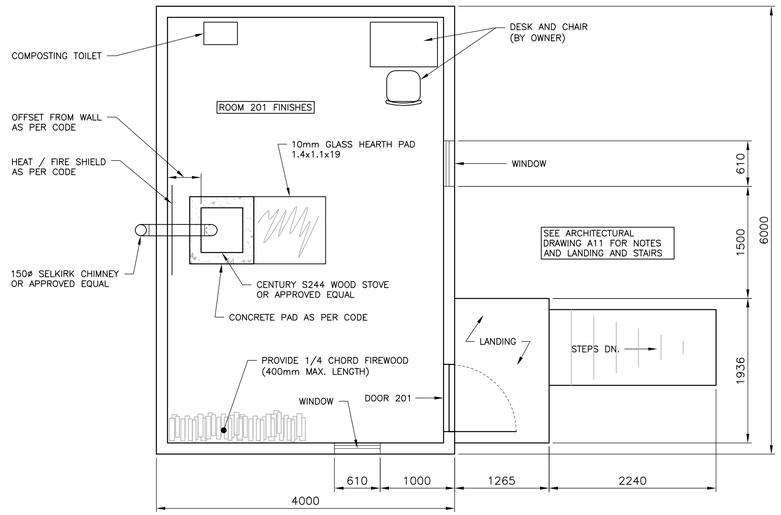


5 - SECTION
1:100



SHOP DRAWINGS REQUIRED

HAND PULL GATE
1:20



PRE-FABRICATED ATTENDANT'S TRAILER DETAILS
1:200

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REGISTERED PROFESSIONAL ENGINEER — K.R. MACINTYRE — LICENSEE — Oct 30/20 — NT/NU

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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: MAY 2019
SCALE: AS NOTED

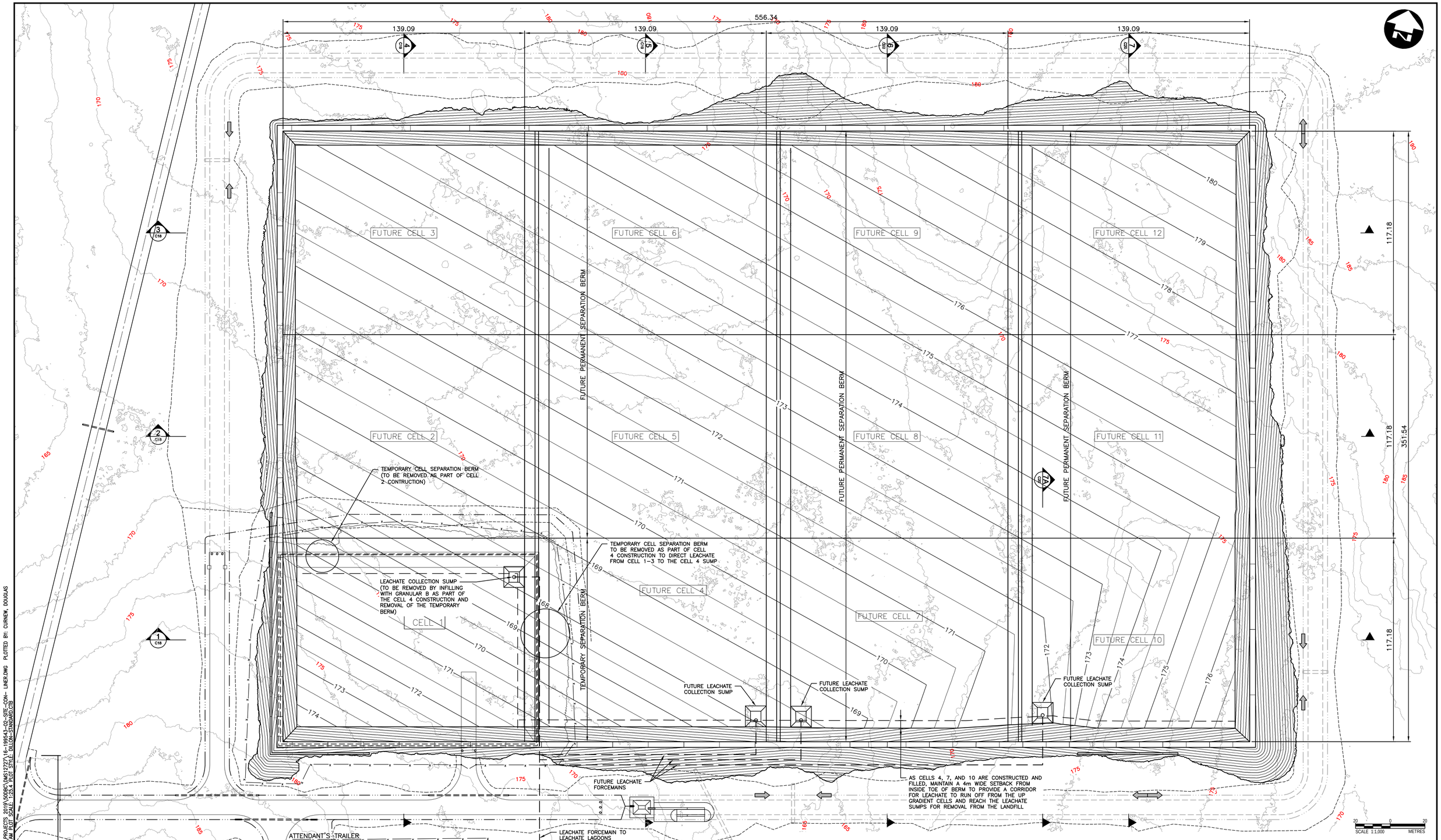
CITY OF IQALUIT
SOLID WASTE LANDFILL

LEACHATE LAGOONS
SECTIONS & DETAILS

PROJECT NO. 19-9543

SHEET NO. LF-C15

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\500BC\DMS127227\15-19543-02-SITE-CON-SECTIONS.DWG PLOTTED BY: CURNEW, DOUGLAS
PLOT DATE: 2020-12-15 @ 12:08:33 PM PLOT SCALE: 125.4 PLOT STYLE: DILLON-STANDARD.CTB



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NT/NU
OCTOBER 30, 2020
C.R. SHORTALL
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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	MAY 2019
SCALE	1:1000 (22x34) 1:2000 (11x17)

CITY OF IQALUIT
SOLID WASTE LANDFILL

PROJECT NO. 19-9543

75 YEAR PROPOSED BOTTOM OF LINER SYSTEM

FOR INFORMATION ONLY

SHEET NO. LF-C16

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\SOBK\DWGS\2727\16-19954-3-02-SITE-CON-LINER.DWG PLOTTED BY: CURNEW, DOUGLAS
PLOT DATE: 2020-12-15 @ 10:51:06 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB

FUTURE CELL 3
FUTURE CELL 6
FUTURE CELL 9
FUTURE CELL 12
FUTURE CELL 2
FUTURE CELL 5
FUTURE CELL 8
FUTURE CELL 11
FUTURE CELL 4
FUTURE CELL 7
FUTURE CELL 10
CELL 1
FUTURE PASSIVE GAS VENT (TYP.)
GV
SCALE 1:1,000
20 0 20
METRES

Conditions of Use

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REGISTERED PROFESSIONAL ENGINEER
OCTOBER 30, 2020
C.R. SHORTALL
LICENSEE
NT/NU

Iqaluit

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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 C.R.S. | REVIEWED BY S.D.K.
DRAWN D.B.C./ D.T.M. | CHECKED BY K.B.
DATE MAY 2019
SCALE 1:1000 (22x34) 1:2000 (11x17)

CITY OF IQALUIT
SOLID WASTE LANDFILL

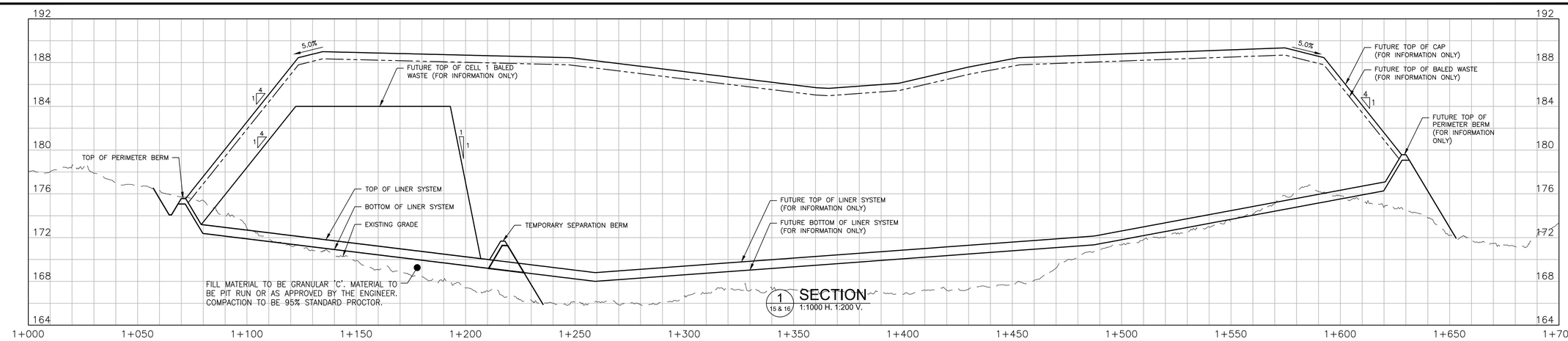
PROJECT NO. 19-9543

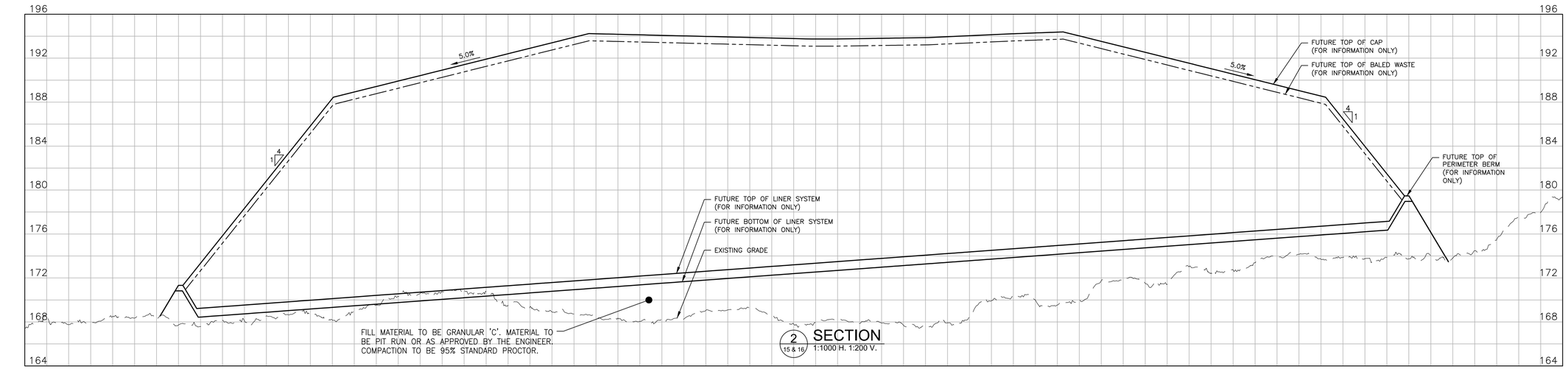
75 YEAR PROPOSED TOP OF FINAL BALED WASTE

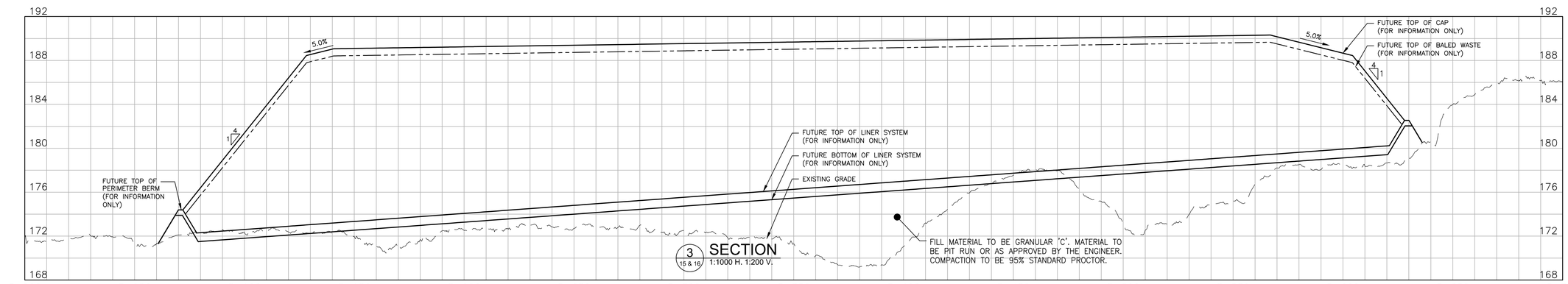
FOR INFORMATION ONLY

SHEET NO. LF-C17

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PLOT DATE: 2020-10-29 @ 1:43:38 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB







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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	MAY 2019
SCALE	1:1000 (22x34) 1:2000 (11x17)

CITY OF IQALUIT
SOLID WASTE LANDFILL

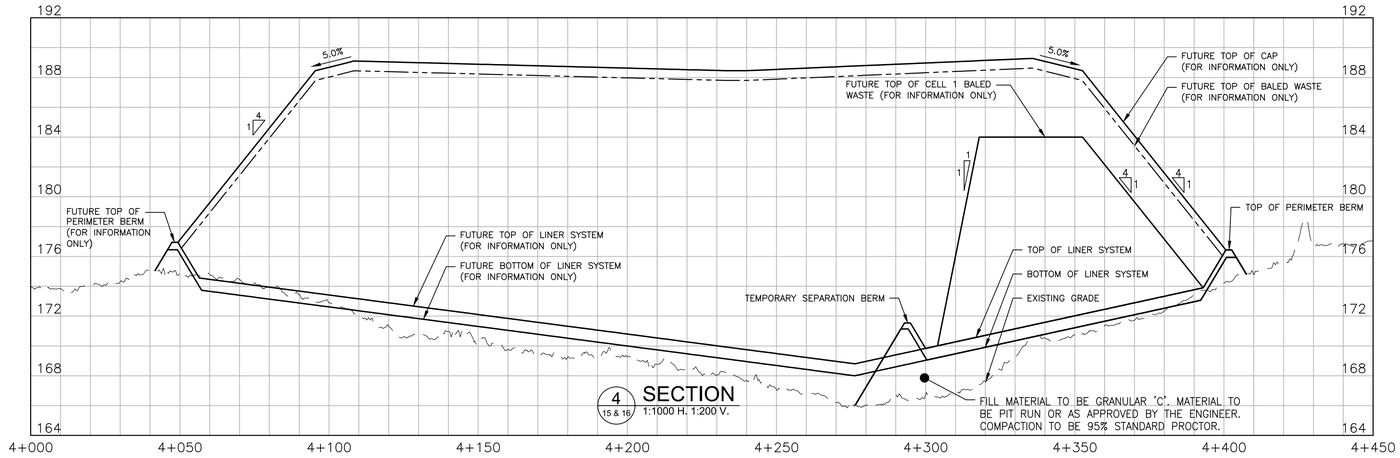
LANDFILL SECTIONS 1 TO 3

FOR INFORMATION ONLY

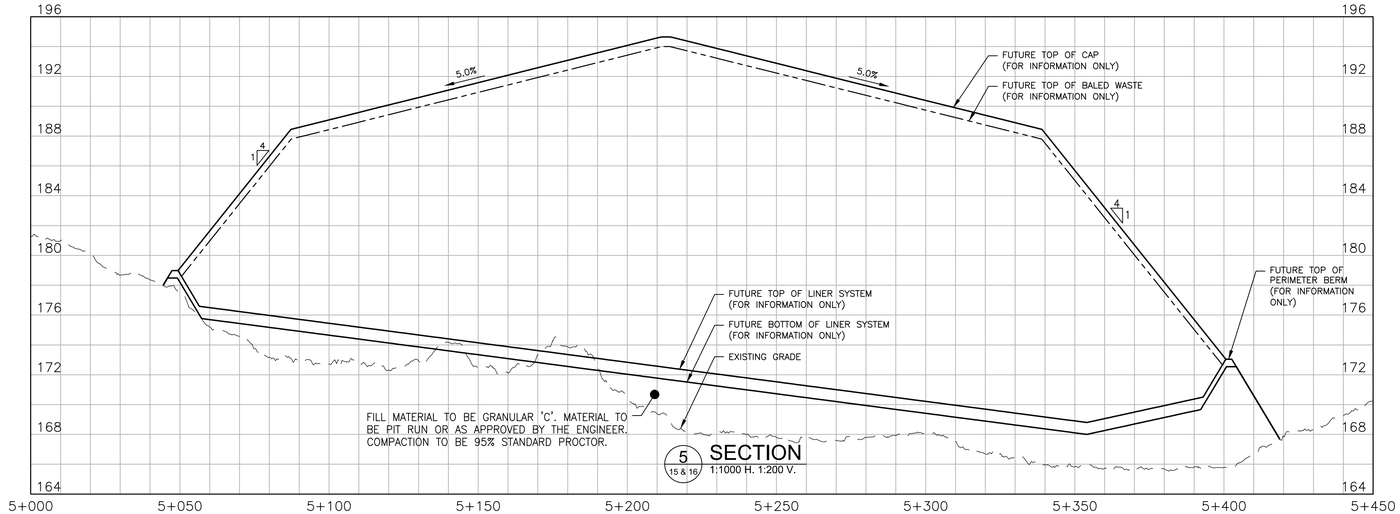
PROJECT NO. 19-9543

SHEET NO. **LF-C18**

FILENAME: C:\PW_WORKING_DIRECTORY\PROJECTS 2019\5101TM\DWGS\2727\19-19954-02-SITE-CON-SECTIONS 1.DWG PLOTTED BY: MCDONALD, DAN
PLOT DATE: 2020-10-29 @ 12:11:39 PM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



4 / 15 & 16 SECTION
1:1000 H. 1:200 V.



5 / 15 & 16 SECTION
1:1000 H. 1:200 V.

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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 MAY 2019
SCALE AS NOTED

CITY OF IQALUIT
SOLID WASTE LANDFILL

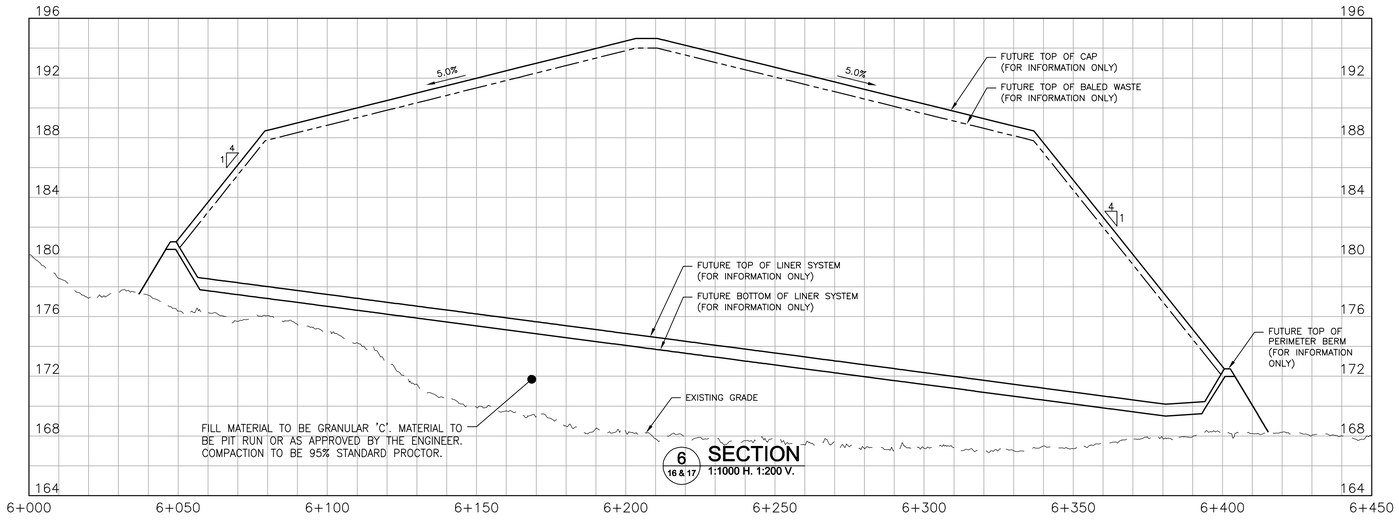
LANDFILL SECTIONS 4 AND 5

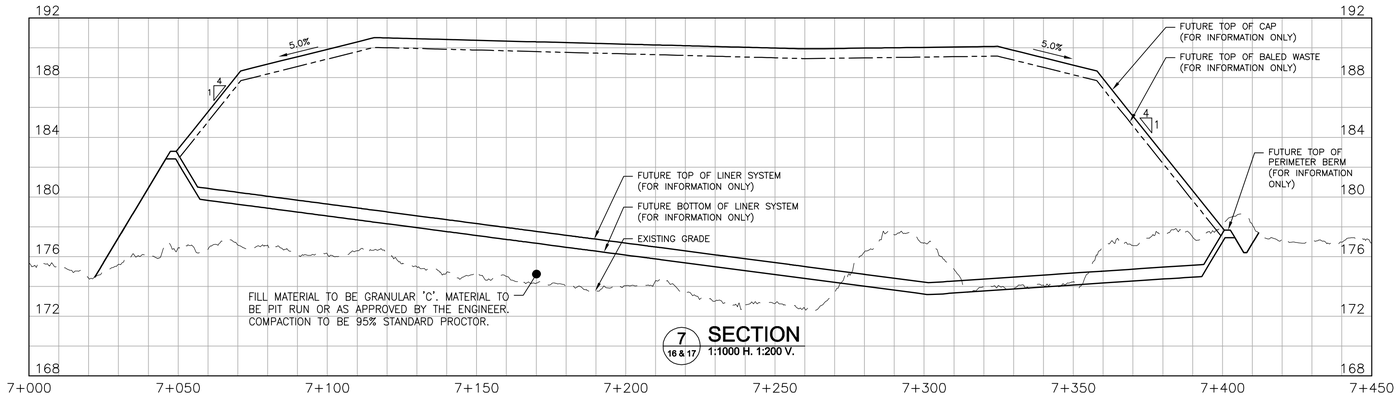
FOR INFORMATION ONLY

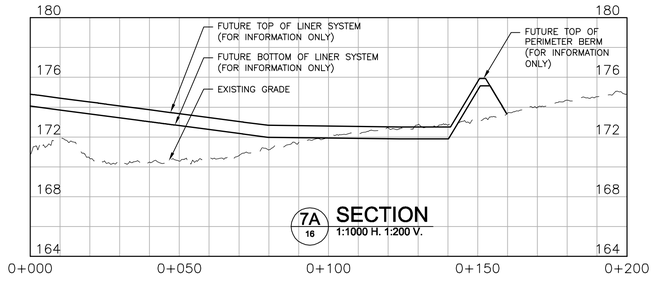
PROJECT NO. 19-9543

SHEET NO. **LF-C19**

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PLOT DATE: 2020-10-29 @ 12:19:56 PM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB







FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\500BC\DWG\12727\20-195543-02-SITE-CON-LF SECTIONS.DWG PLOTTED BY: CURNEW, DOUGLAS
PLOT DATE: 2020-12-15 @ 10:55:38 AM PLOT SCALE: 1:25.4 PLOT STYLE TABLE: DILLON-STANDARD.CTB

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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: MAY 2019	
SCALE: AS NOTED	

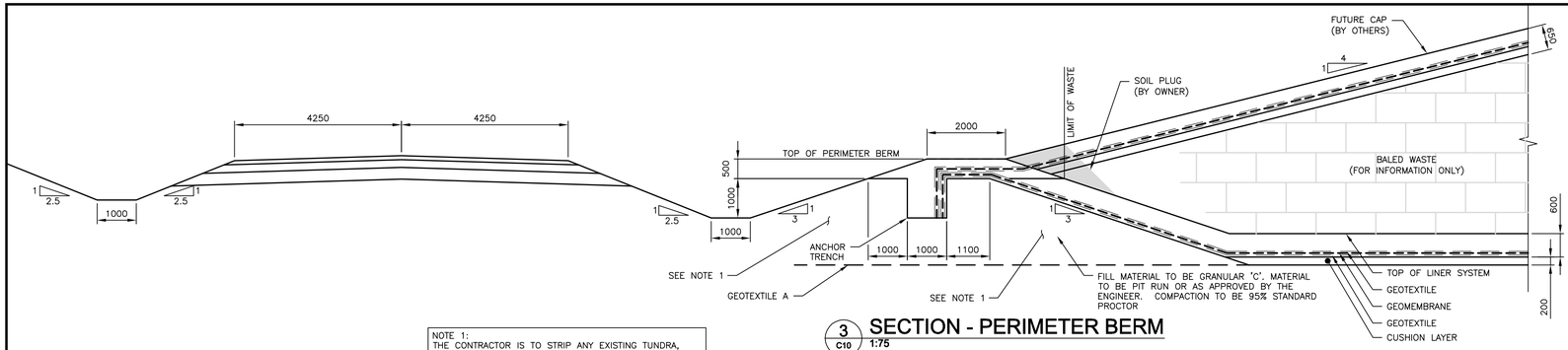
CITY OF IQALUIT
SOLID WASTE LANDFILL

LANDFILL SECTIONS 6, 7 AND 7A

FOR INFORMATION ONLY

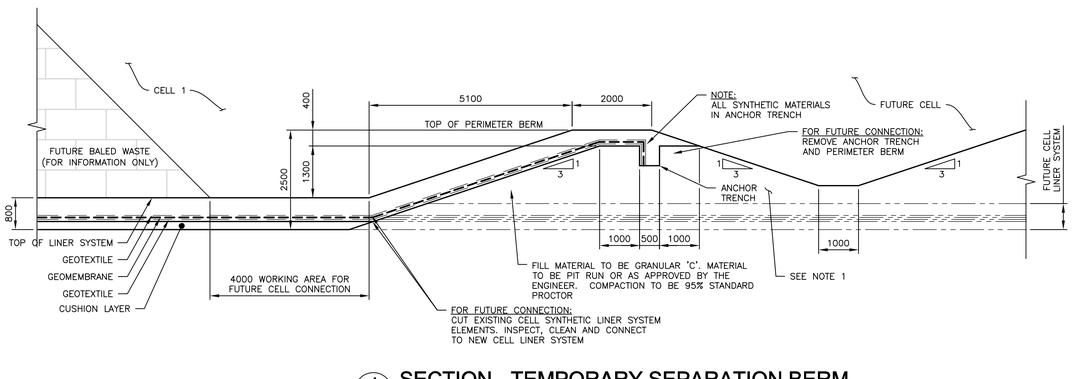
PROJECT NO. 19-9543

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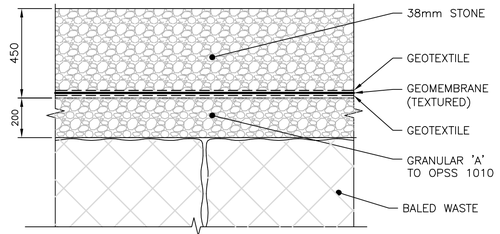


3 C10 SECTION - PERIMETER BERM
1:75

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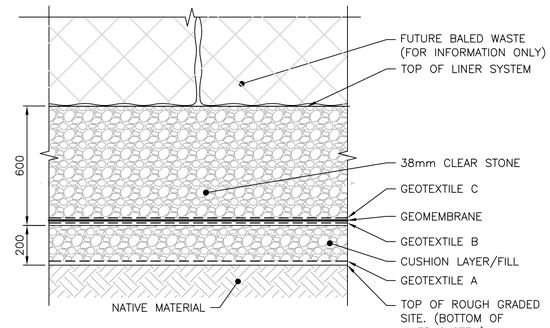


4 C10 SECTION - TEMPORARY SEPARATION BERM
1:75

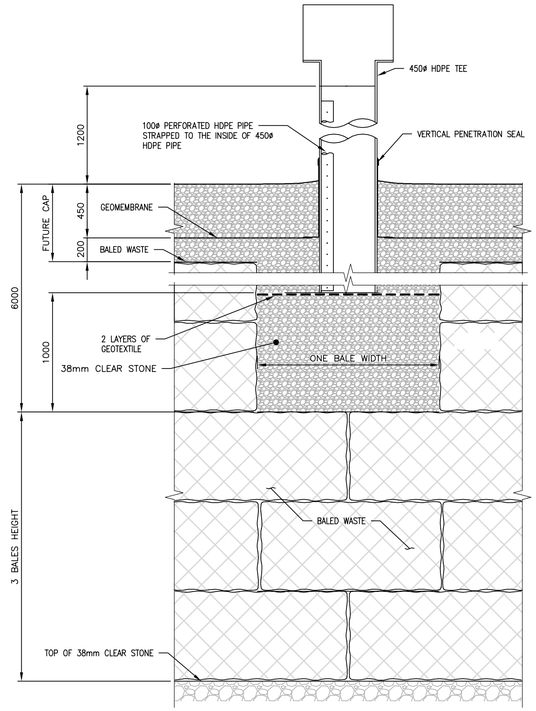


FUTURE CAP SYSTEM SCHEMATIC
N.T.S.

(FOR INFORMATION ONLY)

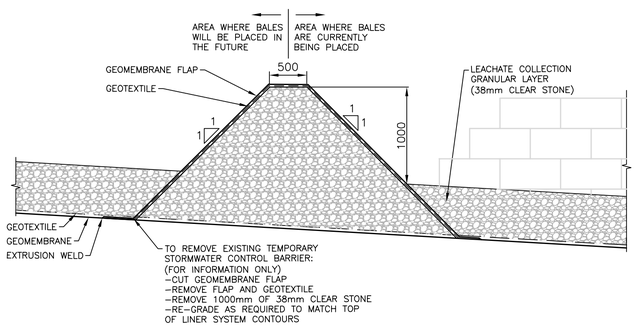


LINER SYSTEM SCHEMATIC
N.T.S.



FUTURE PASSIVE GAS VENT DETAIL
N.T.S.

(FOR INFORMATION ONLY)



6 C10 SECTION - TEMPORARY STORMWATER CONTROL BARRIER
N.T.S.

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REVIEWED BY	S.D.K.
DRAWN	D.B.C./ D.T.M.
CHECKED BY	K.B.
DATE	MAY 2019
SCALE	AS NOTED

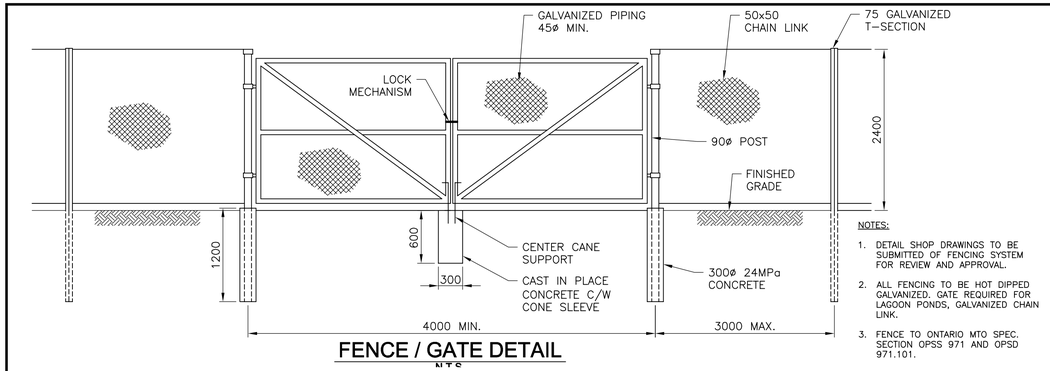
CITY OF IQALUIT
SOLID WASTE LANDFILL

LINER DETAILS

PROJECT NO. 19-9543

SHEET NO. LF-C21

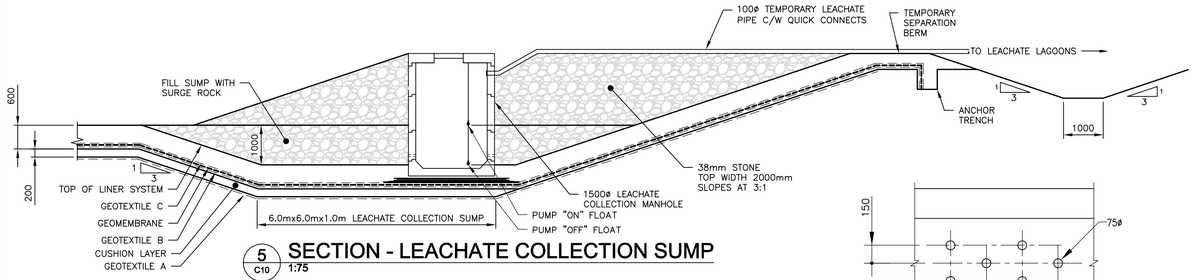
FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\SOLIDBC\DWGS\12727\21-19543-02-SITE-CON-LINER.DWG PLOTTED BY: CURNEW, DOUGLAS
PLOT DATE: 2020-12-15 @ 10:58:05 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



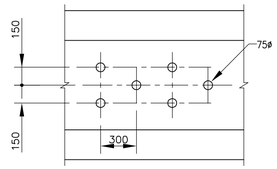
NOTES:

1. DETAIL SHOP DRAWINGS TO BE SUBMITTED OF FENCING SYSTEM FOR REVIEW AND APPROVAL.
2. ALL FENCING TO BE HOT DIPPED GALVANIZED. GATE REQUIRED FOR LAGOON PONDS, GALVANIZED CHAIN LINK.
3. FENCE TO ONTARIO MTO SPEC. SECTION OPSS 971 AND OPSD 971.101.

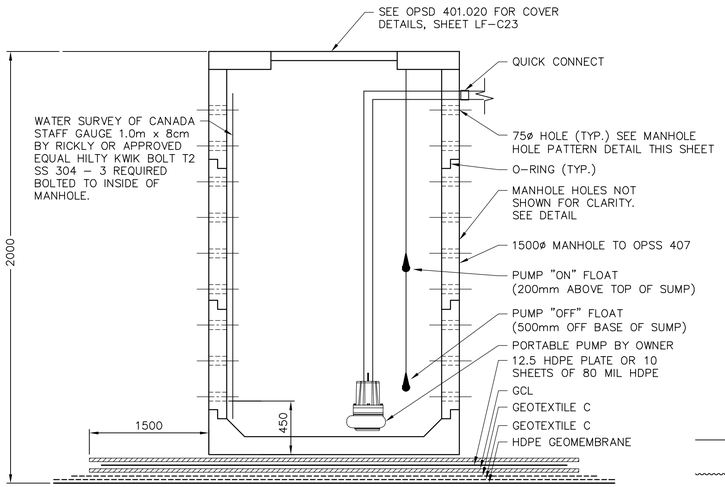
FENCE / GATE DETAIL
N.T.S.



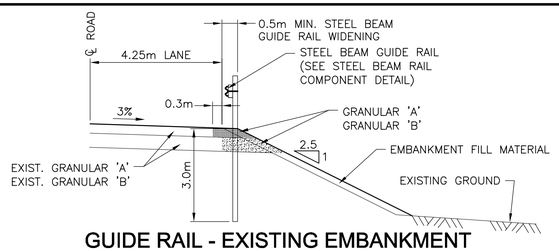
5 C10 SECTION - LEACHATE COLLECTION SUMP
1:75



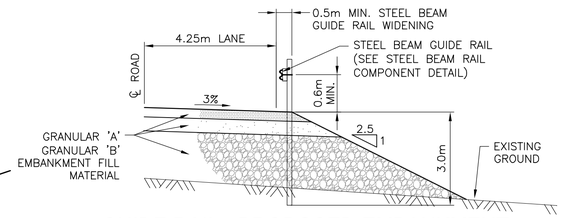
MANHOLE HOLE PATTERN DETAIL
N.T.S.



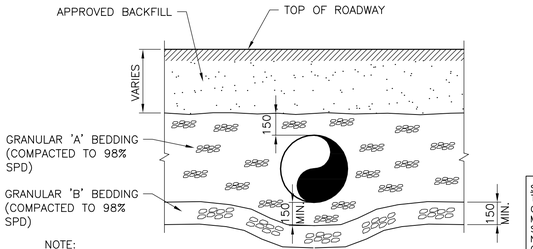
CELL 1 LEACHATE COLLECTION MANHOLE DETAIL
N.T.S.



GUIDE RAIL - EXISTING EMBANKMENT
N.T.S.

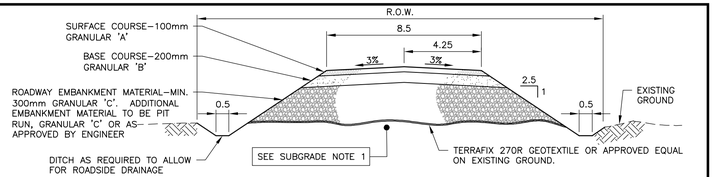


GUIDE RAIL - PROPOSED EMBANKMENT
N.T.S.

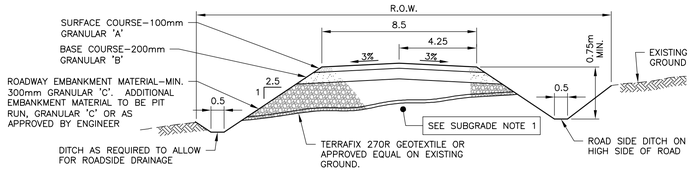


NOTE:
HEADWALL NOT SHOWN FOR CLARITY.

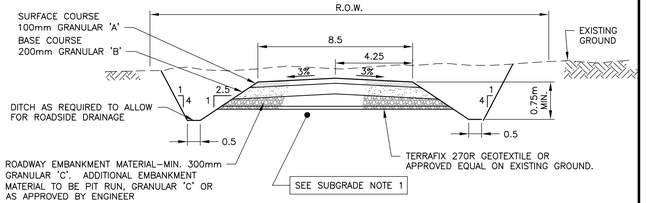
TYPICAL CULVERT
N.T.S.



ROAD EMBANKMENT - LEVEL GROUND
N.T.S.

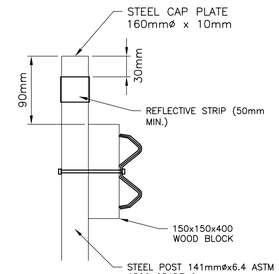


ROAD EMBANKMENT - SLOPED GROUND
N.T.S.

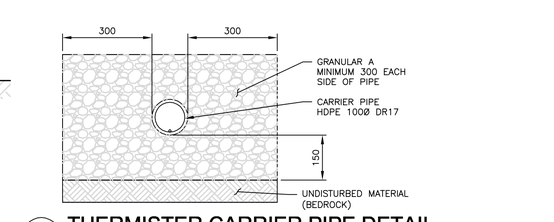


ROAD EMBANKMENT - IN A ROCK OR PERMAFROST CUT
N.T.S.

SUBGRADE NOTE 1:
THE CONTRACTOR IS TO STRIP ANY EXISTING TUNDRA, ORGANIC/PEAT LAYERS AND/OR ANY OTHER SOFT NATURAL MATERIALS ENCOUNTERED TO EXPOSE A STRUCTURALLY STABLE SUBGRADE OF EITHER UNFROZEN OR FROZEN NATURAL INORGANIC SOILS TO A MINIMUM OF A 2.0m OFFSET FROM THE TOE OF SLOPE. REPLACE MATERIAL WITH COMPACTED GRANULAR FILL. SUBGRADE TO BE APPROVED BY QUALIFIED GEOTECHNICAL PERSONNEL.

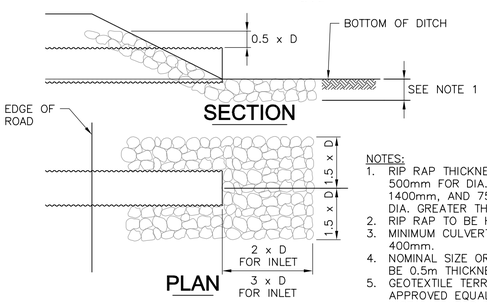


STEEL BEAM RAIL COMPONENT
N.T.S.



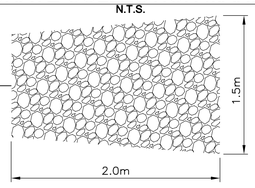
THERMISTER DATA LOGGER SUPPORT
N.T.S.

3 13 THERMISTER CARRIER PIPE DETAIL
NTS



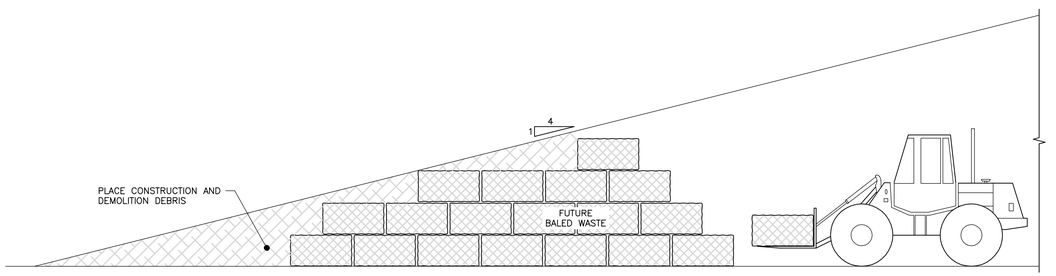
SECTION
PLAN
CULVERT APRON
N.T.S.

NOTES:
1. RIP RAP THICKNESS TO BE 500mm FOR DIA. LESS THAN 1400mm, AND 750mm FOR DIA. GREATER THAN 1400mm
2. RIP RAP TO BE HAND PLACED.
3. MINIMUM CULVERT DIA. TO BE 400mm.
4. NOMINAL SIZE OR RIP RAP TO BE 0.5m THICKNESS.
5. GEOTEXTILE TERRAFIX 400R OR APPROVED EQUAL TO BE INSTALL UNDER ENTIRE RIP RAP APRON.



NOTES:
1. RIP RAP TO BE HAND PLACED.
2. NONIMAL SIZE OR RIP RAP TO BE 0.5 THICKNESS.
3. GEOTEXTILE CLOTH TO BE INSTALLED UNDER ENTIRE RIP RAP APRON.

RIP RAP TREATMENT - ON DITCH OUTLET
N.T.S.



TYPICAL LIFT DETAIL (FOR INFORMATION ONLY)
1:75

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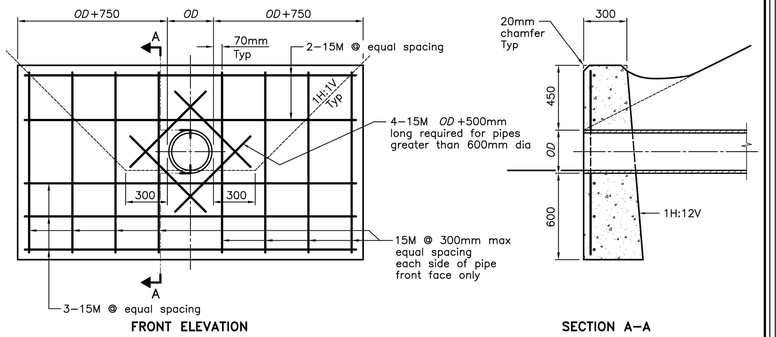
CITY OF IQALUIT
SOLID WASTE LANDFILL

SECTIONS AND DETAILS

PROJECT NO. 19-9543

SHEET NO. LF-C22

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\GOBS\DMS\12727\22--19S43-02-SITE_CON-SECTIONS.DWG PLOTTED BY: CURNEW, DOUGLAS
PLOT DATE: 2020-12-15 @ 11:50:53 AM PLOT SCALE: 1:254 PLOT STYLE: DILLON-STANDARD.CTB



FRONT ELEVATION

SECTION A–A

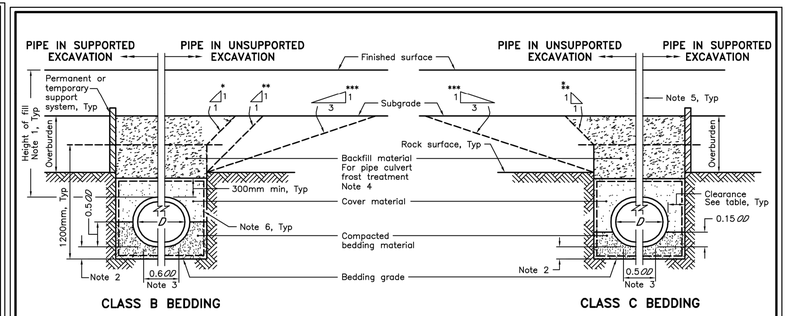
LEGEND:

OD – Outside diameter of pipe

NOTES:

A This OPSD to be read in conjunction with OPSD 3940.150.
B If a steel grate is required, refer to OPSD 804.05.
C Class of concrete: 30MPa.
D Cover to reinforcing bars 75mm ± 20mm.
E All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2006	Rev 1
CONCRETE HEADWALL FOR PIPE LESS THAN 900mm DIAMETER		OPSD 804.030



CLASS B BEDDING

CLASS C BEDDING

NOTES:

1 Height of fill is measured from the finished surface to top of pipe.
2 The minimum bedding depth below the pipe shall be $0.25D$ In no case shall this dimension be less than 150mm or greater than 300mm.
3 The pipe bed shall be compacted and shaped to receive the bottom of the pipe.
4 Pipe culvert frost treatment shall be according to OPSD 803.030 and 803.031.
5 Condition of excavation is symmetrical about centreline of pipe.
6 Embedment material shall be wrapped in non–woven geotextile when specified.

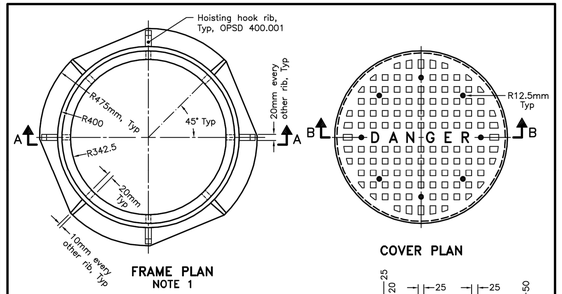
A Soil types as defined in the Occupational Health and Safety Act and Regulations for Construction Projects.
B Fractured rock shall be treated as Type 1 soil.
C All dimensions are in metres unless otherwise shown.

LEGEND:

D – Inside diameter
OD – Outside diameter
* – Type 1 or 2 soil
** – Type 3 soil
*** – Type 4 soil

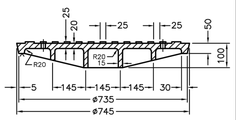
CLEARANCE TABLE	
Pipe Inside Diameter mm	Clearance mm
900 or less	300
Over 900	500

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 3
RIGID PIPE BEDDING, COVER, AND BACKFILL ROCK EXCAVATION		OPSD 802.033

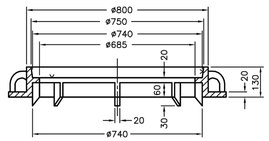


FRAME PLAN
NOTE 1

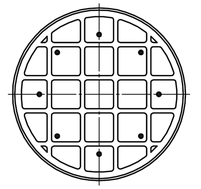
COVER PLAN



SECTION B–B



SECTION A–A

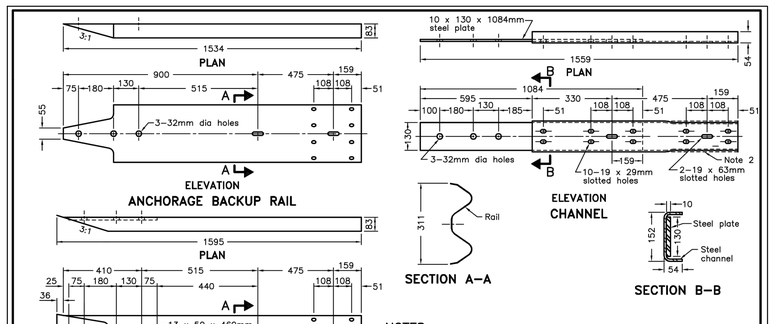


COVER BOTTOM VIEW

NOTE:

1 As an option, frame may be completely round.
A All dimensions are in millimetres unless otherwise shown.

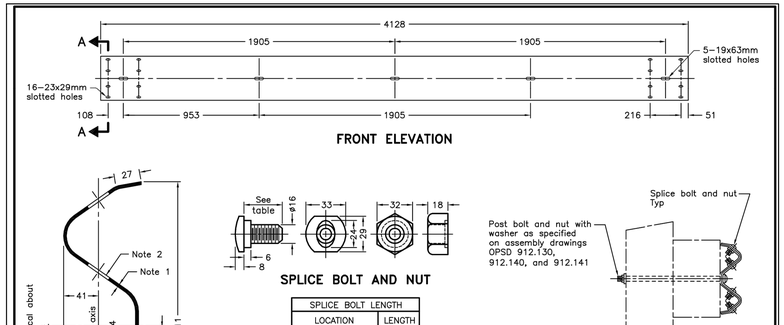
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2013	Rev 3
CAST IRON, CIRCULAR FRAME WITH CIRCULAR 745mm COVER FOR MAINTENANCE HOLES		OPSD 401.020



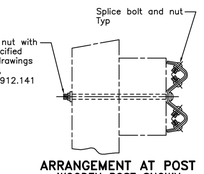
NOTES:

1 End sections shall be welded with 2.5mm fillets and standard guide rail element materials shall be used.
2 Channel with swaged end shall be used at structure approach and non–swaged end section shall be used at structure exit.
A All welds shall be according to CSA W59, low hydrogen classification, and ground smooth.
B This OPSD to be read in conjunction with OPSD 912.101 and 912.102.
C All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2010	Rev 1
GUIDE RAIL SYSTEM, STEEL BEAM STRUCTURE CONNECTION COMPONENT – RAIL AND CHANNEL		OPSD 912.401



SPLICE BOLT LENGTH	
LOCATION	LENGTH
At posts	32
At structure anchor	38



NOTES:

1 Base metal thickness of rail shall be 2.67mm nominal and 2.44mm minimum.
2 Holes only in rail.
A All dimensions subject to manufacturing tolerances unless otherwise indicated.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2016	Rev 3
GUIDE RAIL SYSTEM, STEEL BEAM RAIL COMPONENT		OPSD 912.101

Conditions of Use

Verify elevations and/or dimensions on drawing prior to use. Report any discrepancies to Dillon Consulting Limited.

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REGISTERED PROFESSIONAL ENGINEER
OCTOBER 30, 2020
C.R. SHORTALL
LICENSEE
NT/NU

Iqaluit

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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 MAY 2019
SCALE AS NOTED

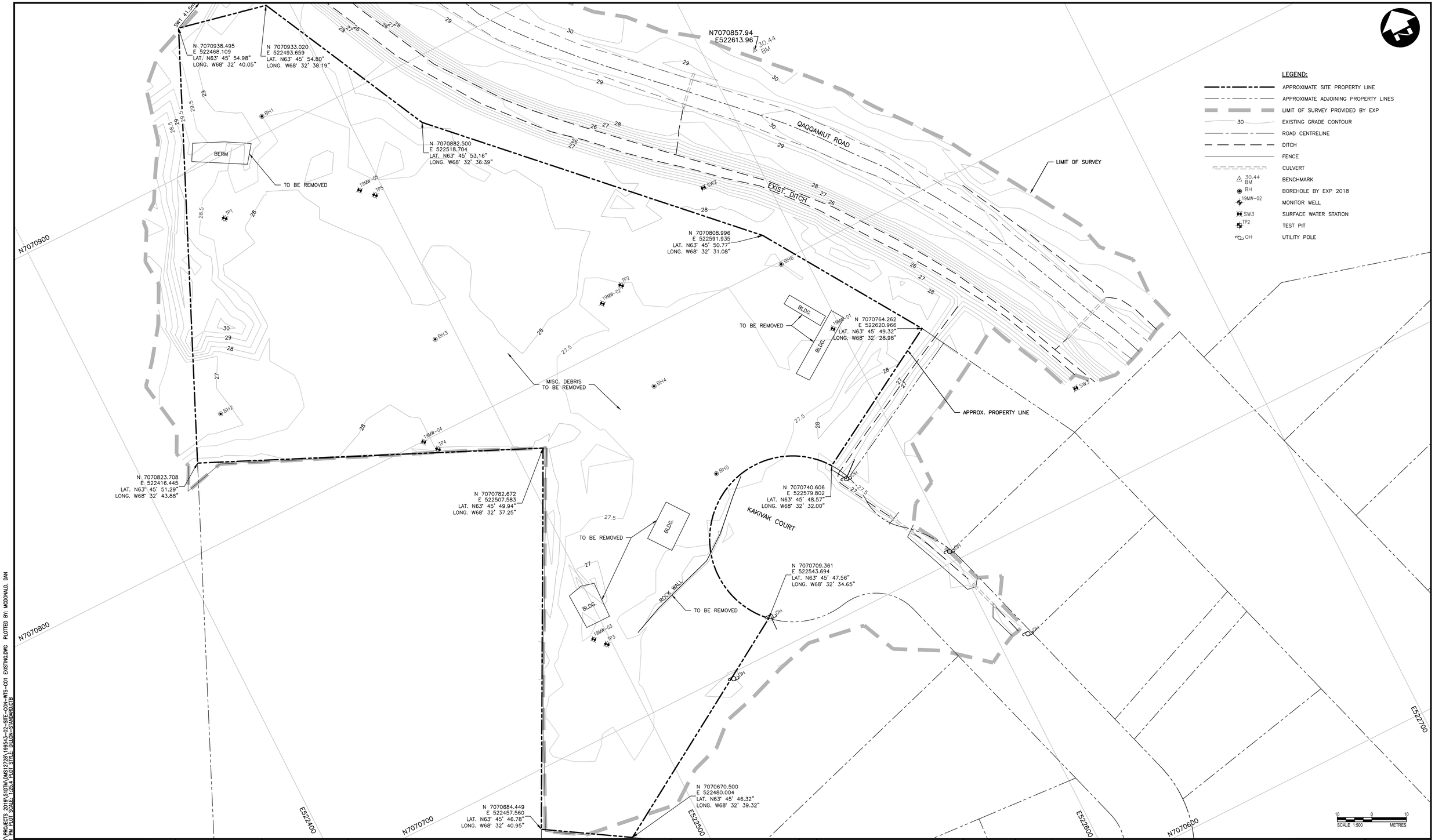
CITY OF IQALUIT
SOLID WASTE LANDFILL

MISCELLANEOUS DETAILS

PROJECT NO. 19-9543

SHEET NO. LF-C23

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PLOT DATE: 2020-10-29 @ 12:30:30 PM PLOT SCALE: 125.4 PLOT STYLE: DILLON-STANDARD.CTB



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

DESIGN: C.R.S.	REVIEWED BY: S.D.K.
DRAWN: D.B.C.	CHECKED BY: K.B.
DATE: OCT 2019	
SCALE: 1:500	

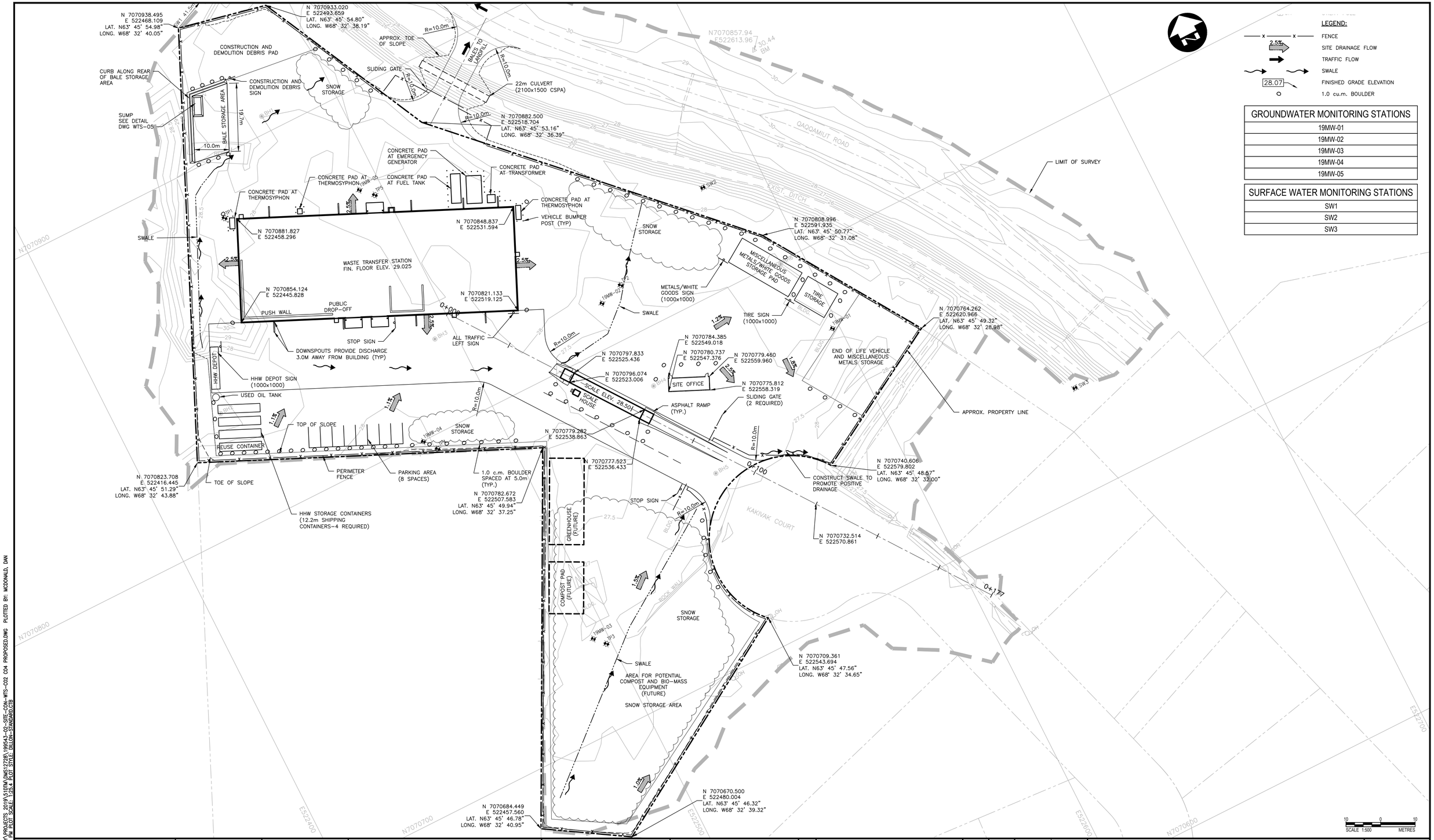
CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

EXISTING CONDITIONS SITE PLAN

SHEET NO. WTS-C01

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PLOT DATE: 2020-10-29 @ 12:48:3 PM XCTS: SCALE: 1:254 XCTS: STYLE: DILLON-STANDARD.CTB



GROUNDWATER MONITORING STATIONS
19MW-01
19MW-02
19MW-03
19MW-04
19MW-05

SURFACE WATER MONITORING STATIONS
SW1
SW2
SW3

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DRAWN D.B.C.	CHECKED BY K.B.
DATE OCT 2019	
SCALE 1:500	

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

PROPOSED SITE PLAN

SHEET NO. WTS-C02

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PLOT DATE: 2020-10-29 @ 12:49:42 PM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB

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2	50% REVIEW	2019/10/23	K.B.
1	30% REVIEW	2019/06/04	K.B.

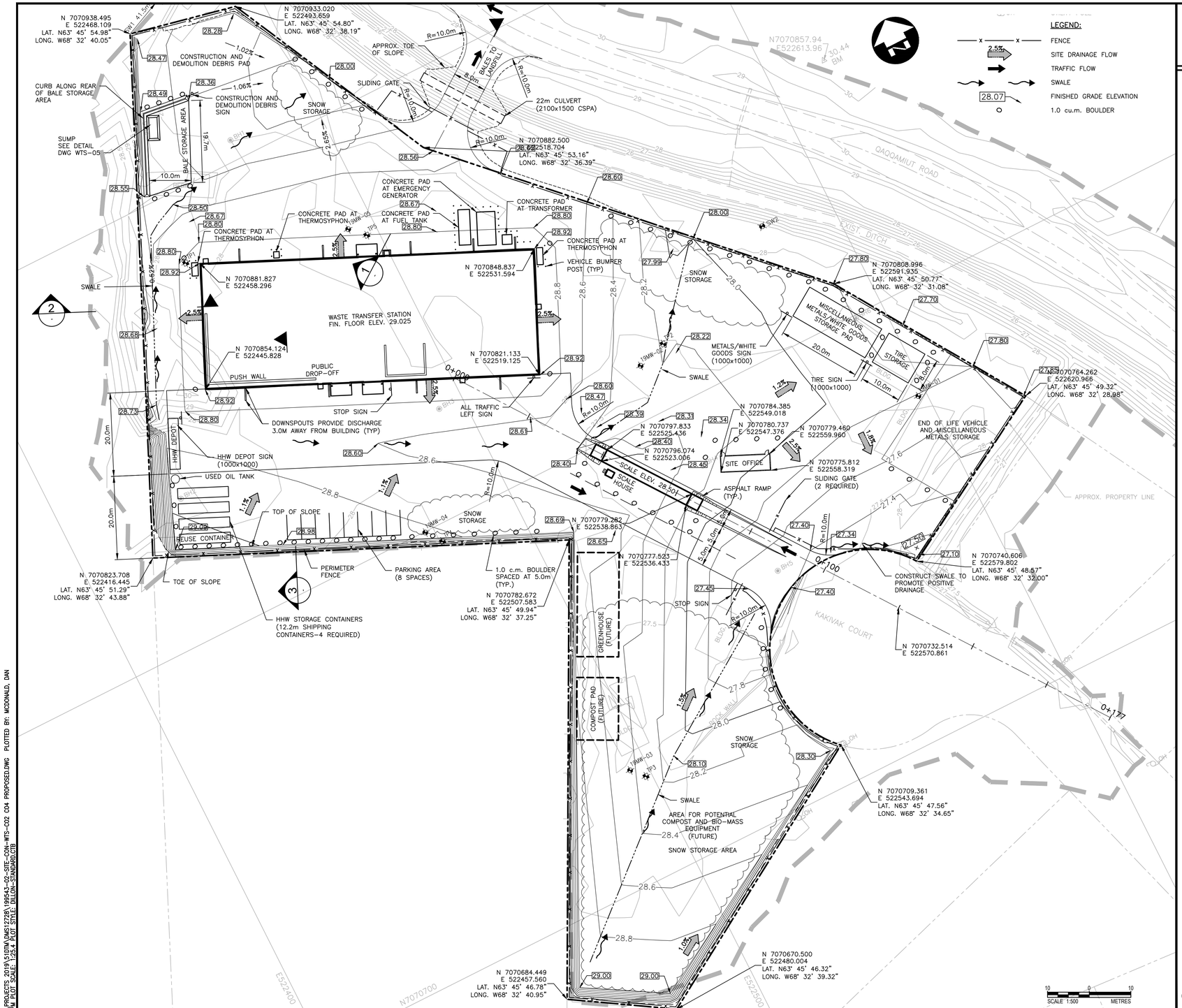
DESIGN	C.R.S.
REVIEWED BY	S.D.K.
DRAWN	D.B.C.
CHECKED BY	K.B.
DATE	OCT 2019
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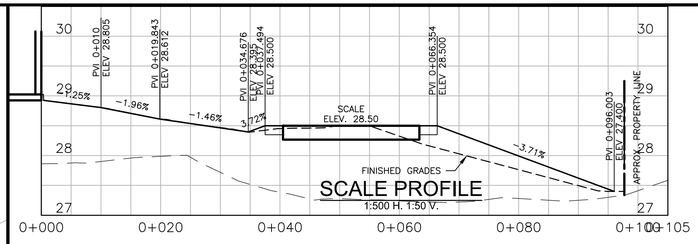
CITY OF IQALUIT
WASTE TRANSFER STATION

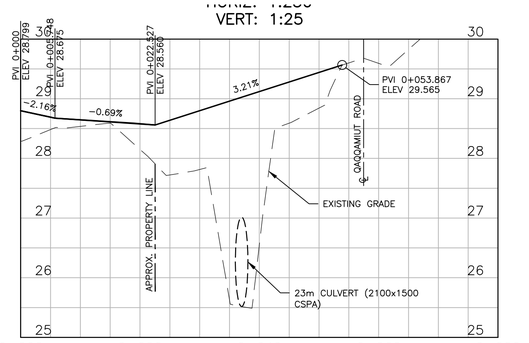
PROJECT NO. 19-9543

EROSION CONTROL PLAN

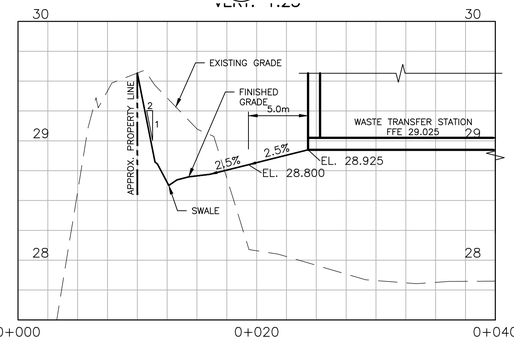
SHEET NO. WTS-C03



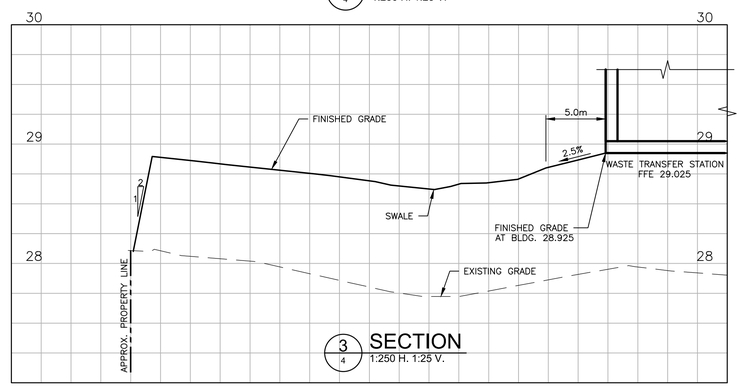




1 4 SECTION
1:500 H. 1:50 V.



2 4 SECTION
1:250 H. 1:25 V.



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

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DRAWN D.B.C.	CHECKED BY K.B.
DATE	OCT 2019
SCALE	1:500 H. 1:50 V.

CITY OF IQALUIT
WASTE TRANSFER STATION

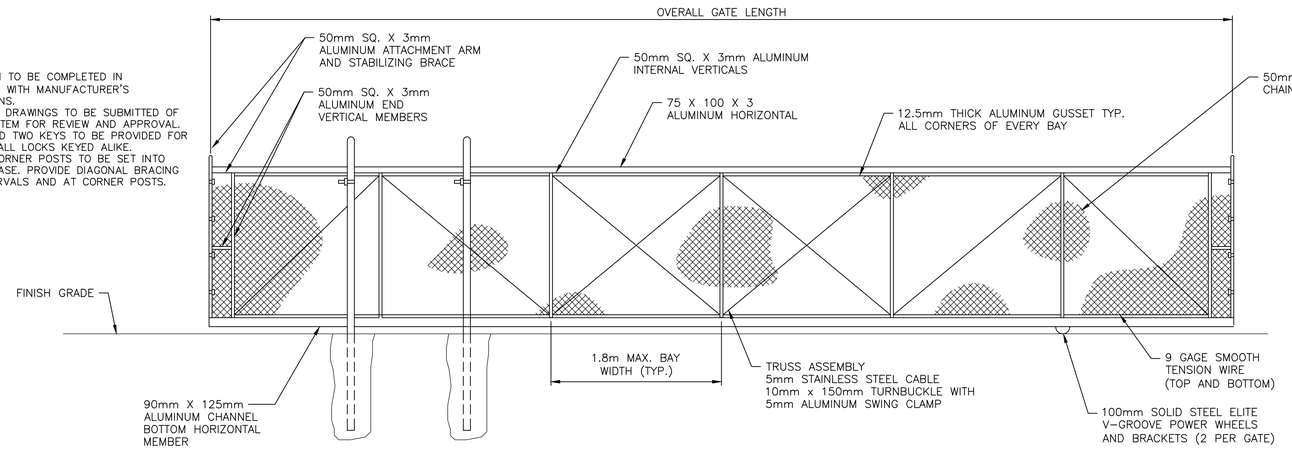
SITE GRADING PLAN, PROFILES AND SECTIONS

PROJECT NO. 19-9543

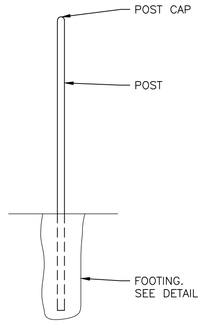
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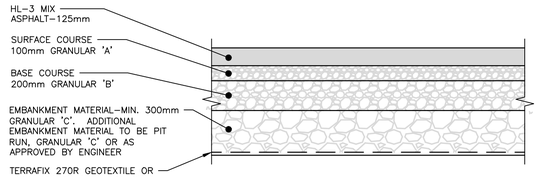
NOTE:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DETAIL SHOP DRAWINGS TO BE SUBMITTED OF FENCING SYSTEM FOR REVIEW AND APPROVAL.
3. PADLOCK AND TWO KEYS TO BE PROVIDED FOR EACH GATE ALL LOCKS KEYED ALIKE.
4. GATE AND CORNER POSTS TO BE SET INTO CONCRETE BASE.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



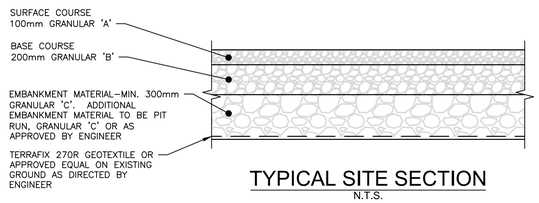
GATE DETAIL
N.T.S.



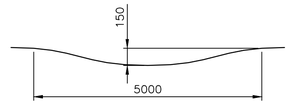
GATE SIDE ELEVATION



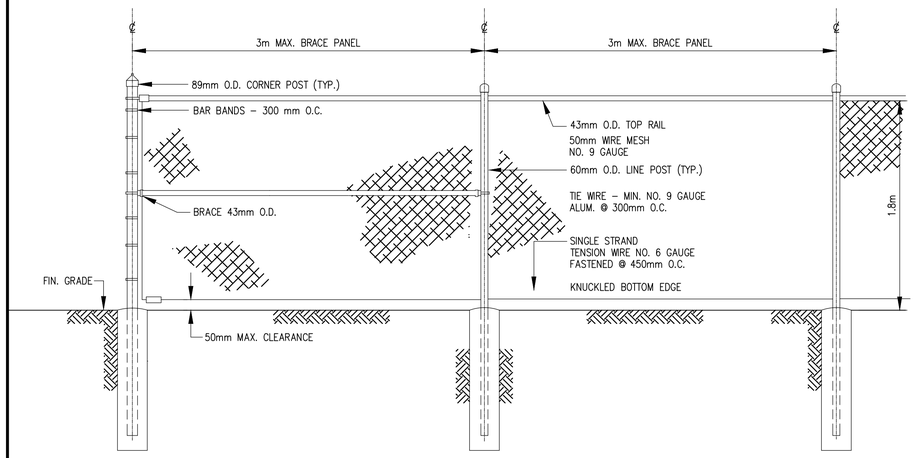
SCALE RAMPS SECTION
N.T.S.

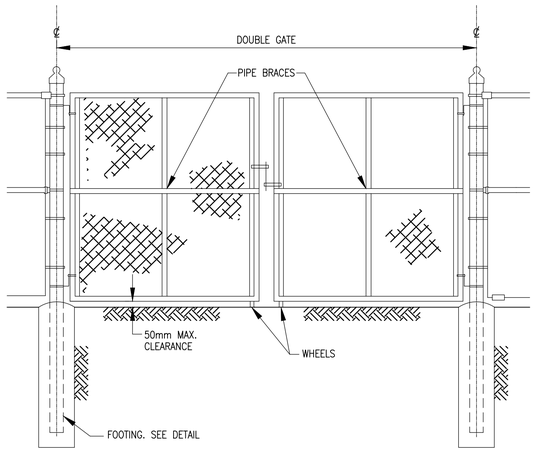


TYPICAL SITE SECTION
N.T.S.

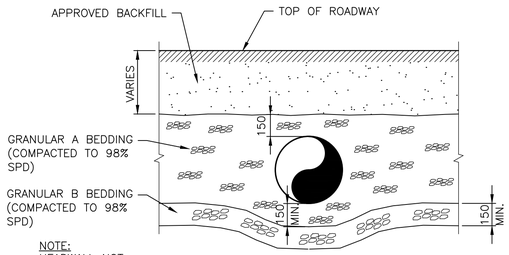


TYPICAL SWALE SECTION
N.T.S.



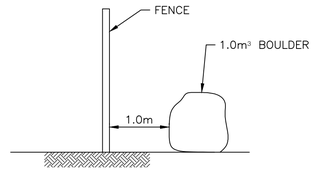


CHAIN LINKED SECURITY FENCE C/W BARB WIRE
N.T.S.

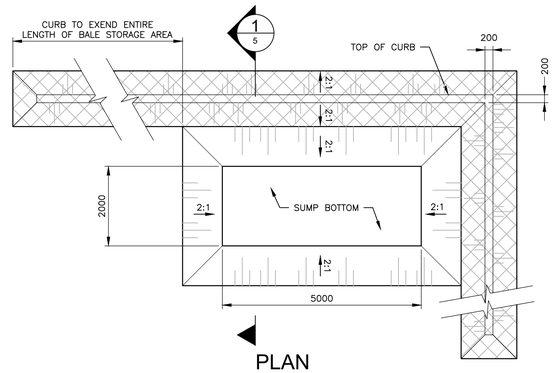


NOTE:
HEADWALL NOT SHOWN FOR CLARITY.

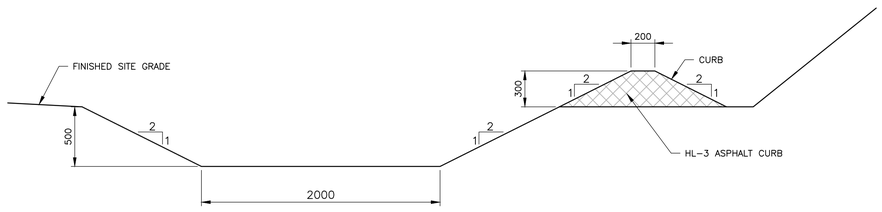
TYPICAL CULVERT
N.T.S.



FENCE/LARGE ROCK DETAIL
N.T.S.

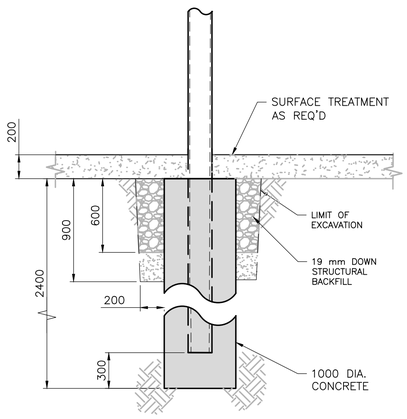


PLAN
N.T.S.

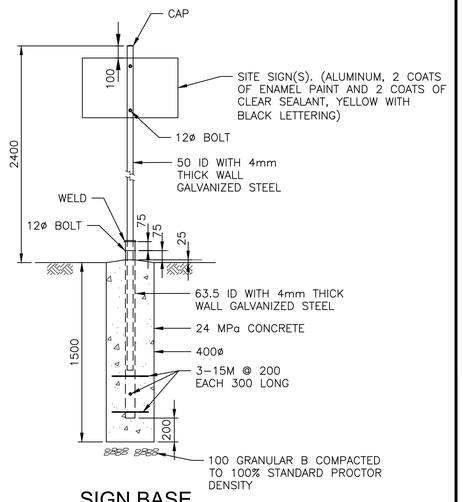


1/5 SECTION
N.T.S.

BALE STORAGE AREA SUMP DETAIL
N.T.S.



GATE AND FENCE FOOTING DETAIL
N.T.S.



SIGN BASE
N.T.S.

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Iqaluit

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2	50% REVIEW	2019/10/23	K.B.
1	30% REVIEW	2019/06/04	K.B.

DESIGN	REVIEWED BY
C.R.S.	S.D.K.
DRAWN	CHECKED BY
D.B.C.	K.B.
DATE	OCT 2019
SCALE	AS NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

MISCELLANEOUS DETAILS

SHEET NO. WTS-C05

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\51DTM\DMS1272R1\19543-02-SITE-CON-WTS-C05 DETAILS.DWG PLOTTED BY: MCDONALD, DAN
PLOT DATE: 2020-10-29 @ 1:25:12 PM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.STB

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. ALL REFERENCES TO CODES, STANDARDS, SPECIFICATIONS, GUIDELINES, ETC. SHALL MEAN THE LATEST 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.

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

LIVE LOAD 4.8 kPa
STORAGE AREA 12 kPa
MEZZANINE
DEAD LOAD 3 kPa
LIVE LOAD 4.8 kPa
PUSHWALL
930M WASTE HANDLER 5 cu m CAPACITY BREAKING FORCE 10,544 kg
COMPACTED WASTE DENSITY 1039 kg/cu m

GEOTECHNICAL NOTES:

1. GEOTECHNICAL INVESTIGATION WAS COMPLETED BY EXP. SERVICES INC. AND A GEOTECHNICAL REPORT HAS BEEN PREPARED DATED OCTOBER 19, 2018 ENTITLED "CITY OF IQALUIT GEOTECHNICAL INVESTIGATION" PROJECT # OTT-00248813-A0.
2. GEOTHERMAL ANALYSIS WAS 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.
3. SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DESIGNED BY OTHERS.

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 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 POURING CONCRETE FOR SITE REVIEW.
2. PREPARE AND SUBMIT ALL REQUIRED SHOP DRAWINGS FOR REVIEW 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
PUSH WALLS, OIL TANK PAD, GENERATOR PAD	50 mm
CONCRETE WALLS, DECK TOPPING	40 mm
BUILDING SLAB	60 mm

4. BAR LAP SHALL BE AS FOLLOWS:

10M	600 mm
15M	900 mm
20M	1200 mm
25M	1600 mm

5. CLEAR SPACING SHALL BE GREATER THAN 2 TIMES BAR DIAMETER.
6. DO NOT FIELD BEND REINFORCEMENT EXCEPT WHERE INDICATED AND WHERE AUTHORIZED BY THE ENGINEER.
7. REPLACE BARS WHICH DEVELOP CRACKS OR SPLITS.
8. 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. REMOVE ALL LOOSE CONCRETE FROM TOPS OF PILES.
7. ENSURE TOPS OF PILES ARE SOUND CONCRETE.
8. FORMWORK TO FOLLOW THE MAXIMUM TOLERANCES:

HORIZONTAL AND VERTICAL LINES	10 mm in 20 m

9. 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.
10. 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. MASONRY REINFORCEMENT TO CSA A371 TRUSS TYPE
6. BAR REINFORCEMENT TO CSA G30.18 GRADE 400.
7. TOP COURSE OF ALL BLOCK WALLS TO BE 400 DEEP "U" BLOCK WITH 2-15M REINFORCING BARS AND 20 mPa CONCRETE FILL CONTINUOUS.
8. MINIMUM HORIZONTAL JOINT REINFORCEMENT: 3.8 mm TRUSS TYPE WIRE REINFORCEMENT AT EVERY 200 mm.
9. ALL MASONRY WALLS TO BE SECURELY BRACED UNTIL STRUCTURE IS CLOSED IN.
10. PROVIDE "U" BLOCK LINTELS OVER OPENINGS IN BLOCK WALL AS FOLLOWS UNLESS NOTED OTHERWISE:
    - UP TO 1200 mm SPAN – 200 mm "U" BLOCK, 2-15M BOTTOM, 20 mPa, BEARING 200 mm MIN EACH END, FILL 3 CORES IN WALL EACH END.
    - 1200 TO 2400 mm SPAN – 400 mm "U" BLOCK, 2-15M BOTTOM, 20 mPa, BEARING 200 mm MIN EACH END, FILL 3 CORES IN WALL EACH END.
11. PROVIDE 15M VERTICAL REINFORCEMENT FULL HEIGHT WITH MATCHING DOWEL AND COREFILL AT 400 mm O/C; UNDER ALL BEAM BEARING LOCATIONS, EACH WALL CORNER; EACH SIDE OF DOORS AND OPENINGS.

CAST-IN-PLACE CONCRETE:

1. CONCRETE MATERIAL, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA A23.1/A23.2.
2. CONCRETE FALSE WORK/FORMWORKS SHALL CONFORM TO CSA S269.1.
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
C-1	APRON	0.40	35 MPa @ 28 DAYS	GU	19mm	5% -8%	25%
A-3	STRUCTURAL SLAB	0.50	30 MPa @ 28 DAYS	GU	19mm	4% -7%	25%
N	CONCRETE WALLS/ DECK TOPPING/ HOUSEKEEPING PADS	0.50	30 MPa @ 28 DAYS	GU	19mm	N/A	25%
F-1	EXTERIOR CONCRETE PADS/ MANIFOLD	0.50	30 MPa @ 28 DAYS	GU	19mm	5% -8%	25%

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, 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.
2. ALL STRUCTURAL STEEL TO BE GALVANIZED IN ACCORDANCE WITH ASTM A123 TO NET RETENTION OF 610 g/m^2.
3. CONNECTIONS TO BE DESIGNED IN ACCORDANCE WITH THE LATEST CODE AND STANDARDS TO A MINIMUM OF 50% SHEAR CAPACITY OF THE MEMBER. USE A MINIMUM OF 19 mm DIA. BOLTS IN EACH BOLTED CONNECTION.
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 30 MPa AT 7 DAYS.
7. SUBMIT SHOP DRAWINGS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NUNAVUT, FOR REVIEW PRIOR TO FABRICATION

STRUCTURAL STEEL DECK:

1. STEEL DECK TO BE 38 mm.
2. STEEL DECK SHALL BE DESIGNED & INSTALLED BY DECK SUPPLIER IN ACCORDANCE WITH THE LATEST CODES AND STANDARDS FOR THE LOADS SPECIFIED UNDER "DESIGN LOADS".
3. STEEL DECK SHALL HAVE A MINIMUM THICKNESS OF 20 GAUGE.
4. LIMIT DECK TOTAL DEFLECTION TO L/360 AND LIVE LOAD DEFLECTION OF L/240.
5. DECK COATING AS PER SPECIFICATIONS.
6. INSTALL DECK CONTINUOUSLY OVER MINIMUM OF THREE SPANS.
7. 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.
8. CLEAN AND PAINT WELDS WITH A ONE COMPONENT ZINC RICH PAINT SUCH AS ZINGA.
9. SUBMIT SHOP DRAWINGS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NUNAVUT, FOR REVIEW PRIOR TO FABRICATION.

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REGISTERED PROFESSIONAL ENGINEER
W.A. ORMSHAW
LICENSEE
NWT/NU

Iqaluit

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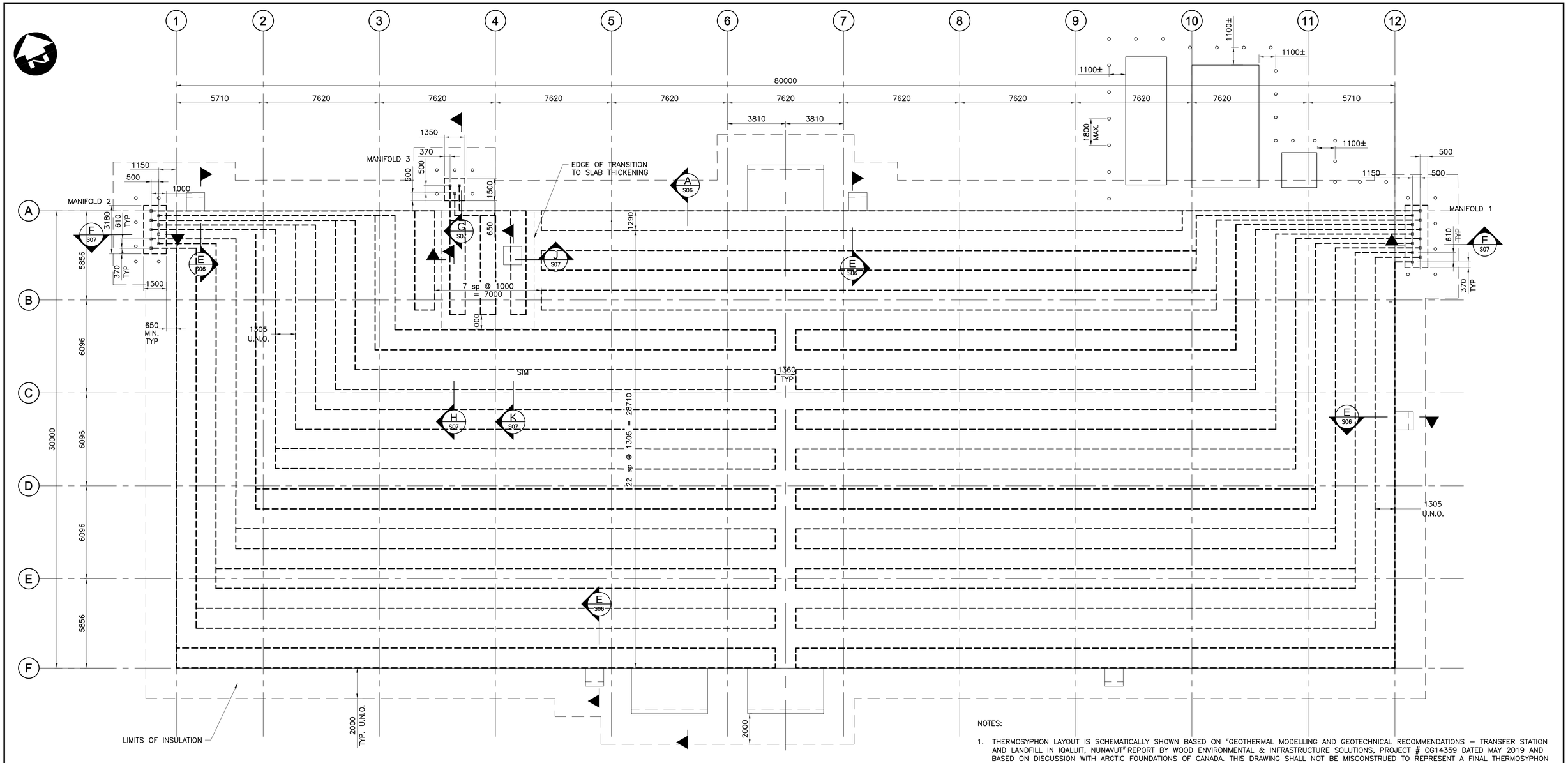
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DRAWN: DJB | CHECKED BY: MBL
DATE: OCT 2019
SCALE:

CITY OF IQALUIT
WASTE TRANSFER STATION

STRUCTURAL NOTES

PROJECT NO. 19-9543

SHEET NO. WTS-**S01**



THERMOSYPHON PLAN
1:125

NOTES:

1. THERMOSYPHON LAYOUT IS SCHEMATICALLY SHOWN BASED ON "GEOTHERMAL MODELLING 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 19 mm A106B STEEL MIN.. ALL RADIATORS SHALL BE 19.5 m^2 MIN. 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. ALL RADIATOR PIPING IS TO BE ADEQUATELY SUPPORTED AGAINST WIND LOADS AND SEISMIC LOADING.
8. ALL RADIATOR PIPING IS TO BE ESSENTIALLY PLUMB.
9. THERMOSYPHON SUPPLIER TO PROVIDE HORIZONTAL TAC. SENSORS TO ALL THERMOSYPHON LOOPS AND DATALOGGER MOUNTS ON EACH MANIFOLD.
10. THERMOSYPHON SUPPLIER TO PROVIDE VERTICAL TAC. SENSORS FROM EVAPORATOR LEVEL TO 7 m BELOW CONCRETE PAD.
11. THERMOSYPHON SUPPLIER TO MONITOR THE SYSTEM 5 YRS AFTER INSTALLATION.
12. THERMOSYPHON SHALL HAVE A 4 YEAR WARRANTY INCLUSIVE AND ADDITIONAL 4 YEARS AGAINST MANUFACTURER'S DEFECTS ON ALL PARTS.
13. GRANULAR FILL SHALL BE NON–FROST SUSCEPTIBLE AND HAS GRADATION AS INDICATED IN THE GEOTHERMAL AND GEOTECHNICAL RECOMMENDATION REPORT ABOVE.
14. COMPACT GRANULAR FILL AS PER THE GEOTHERMAL AND GEOTECHNICAL RECOMMENDATION REPORT ABOVE.

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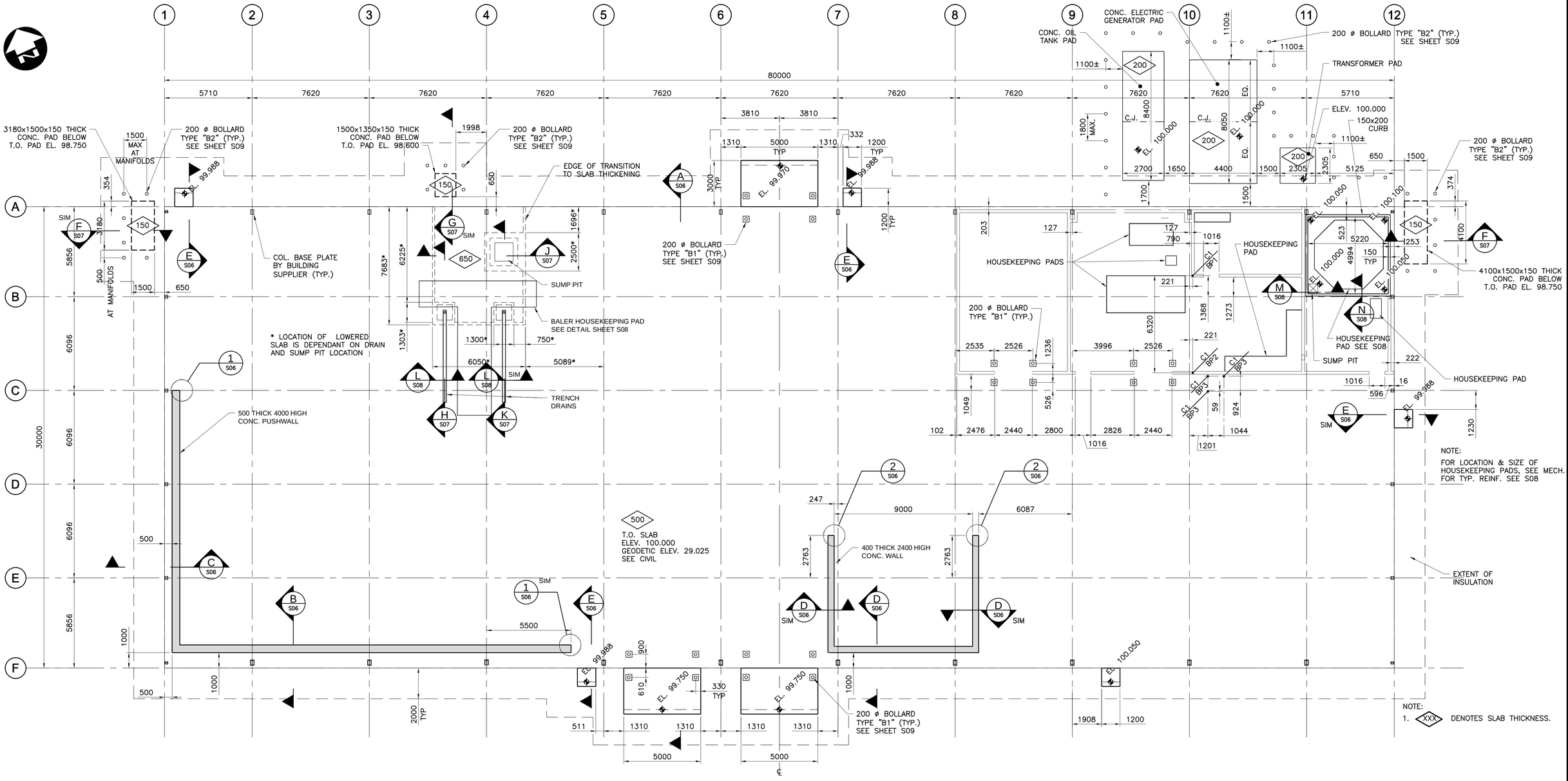
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REVIEWED BY	DRA
DRAWN	DJB
CHECKED BY	MBL
DATE	OCT 2019
SCALE	

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

THERMOSYPHON PLAN

SHEET NO. WTS-**S02**



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 TOPPING
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. WET CONCRETE SURFACE TO A SATURATED SURFACE DRY (SSD) CONDITION WITH NO STANDING WATER
6. APPLY BONDING AGENT SIKATOP® ARMATEC–110 EPOCEM® OR LM™ EMERYTOP 400™
7. INSTALLATION OF BONDING AGENT AND TOPPING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.

OIL TANK PAD & GENERATOR PAD

1. C.J. DENOTES CONTROL JOINT. SEE DETAIL SHEET S08

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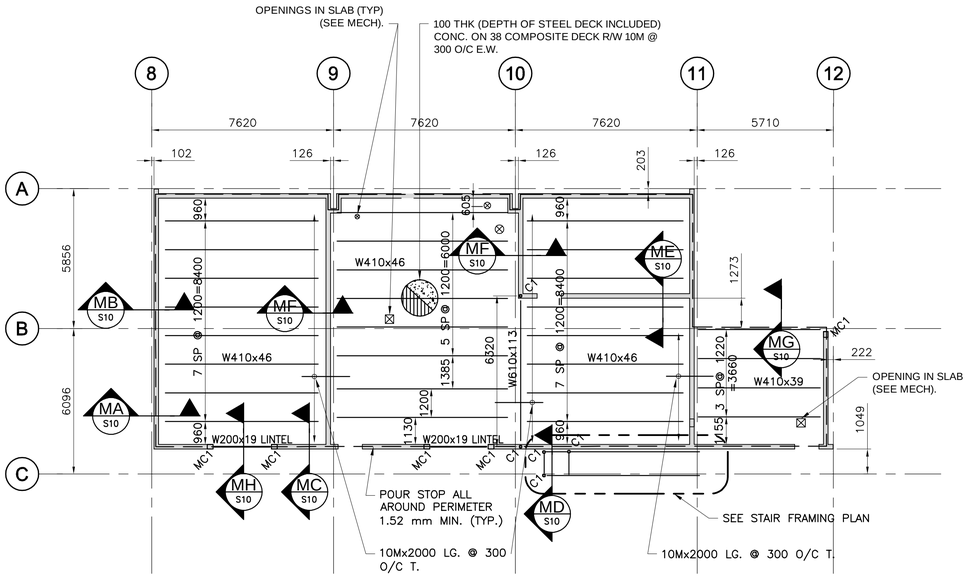
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DJB	MBL
DATE	OCT 2019
SCALE	

CITY OF IQALUIT
WASTE TRANSFER STATION

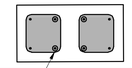
PROJECT NO. 19-9543

SHEET NO. WTS-**S03**

SLAB PLAN

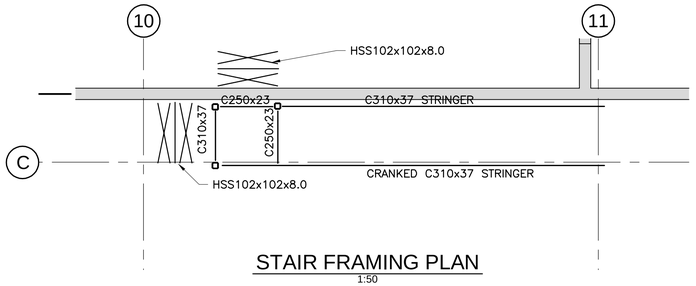


FRAMING PLAN
1:125

MASONRY COLUMN SCHEDULE	
TYPE	MC1
SIZE	190x390
REINFORCEMENT	4 – 15M VERT – #9 GAUGE WIRE @ 200 WITHIN THE MORTAR JOINT. ADD ADDITIONAL 4–15Mx1200 mm LG. DOWEL INTO CONC. FOUNDATION (TYP)
SECTION SCHEMATIC (NOT TO SCALE)	 DOWEL (TYP)

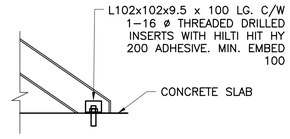
COLUMN SCHEDULE	
TYPE	SIZE
C1	HSS 102x102x8.0

NOTE: FOR BASE PLATES (BP) SEE SHEET S09



STAIR FRAMING PLAN
1:50

NOTE:
SEE ARCH DWG FOR ELEVATION



TYP. STAIR STRINGER TO CONC.SLAB CONNECTION DETAIL
1:25

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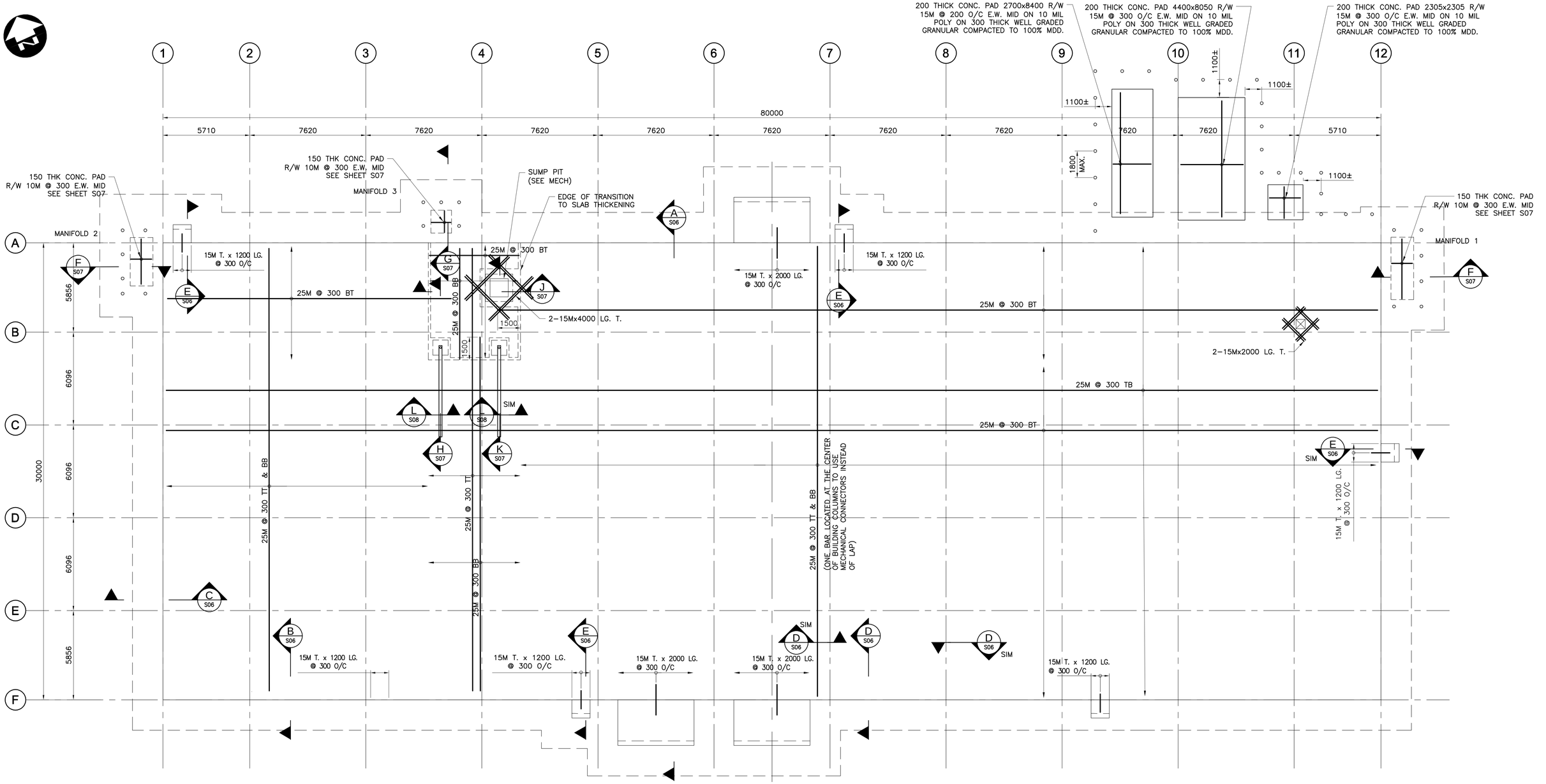
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DRAWN: DJB | CHECKED BY: MBL
DATE: OCT 2019
SCALE:

CITY OF IQALUIT
WASTE TRANSFER STATION

MEZZANINE PLAN

PROJECT NO. 19-9543

SHEET NO. WTS-**S04**



SLAB REINFORCING PLAN

1:125

NOTE: FOR CONC. APRON REINF. SEE SECTIONS ON SHEET S06

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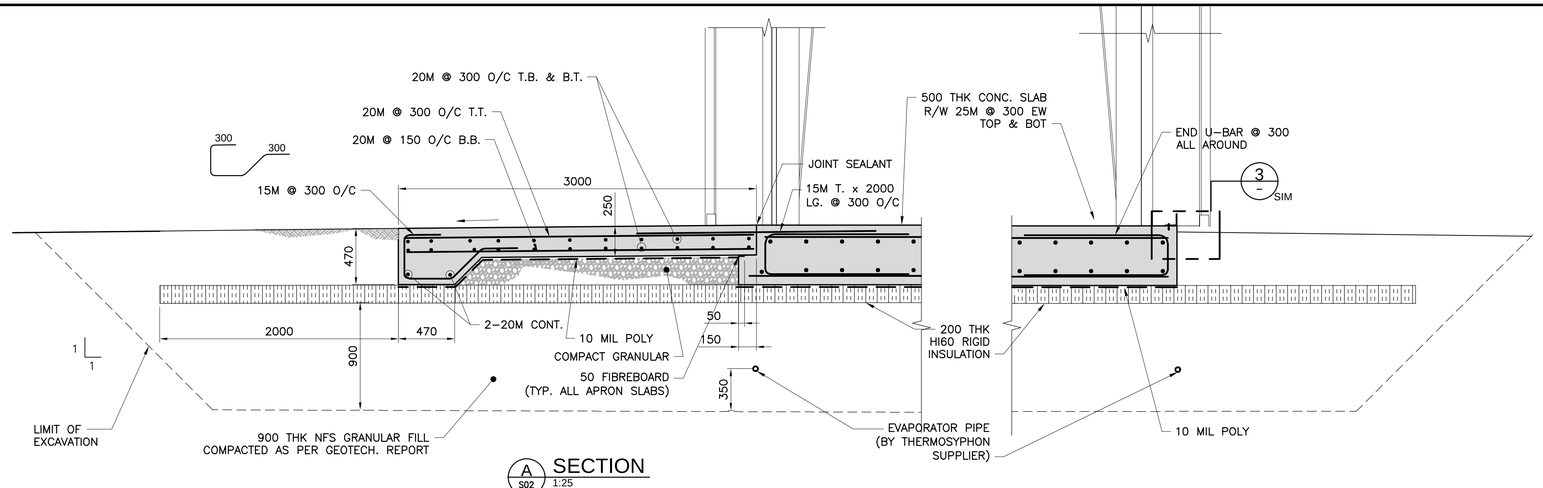
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DATE: OCT 2019
SCALE:

CITY OF IQALUIT
WASTE TRANSFER STATION

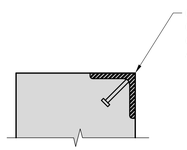
PROJECT NO. 19-9543

SLAB REINFORCING PLAN

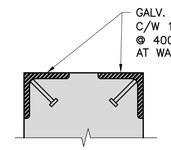
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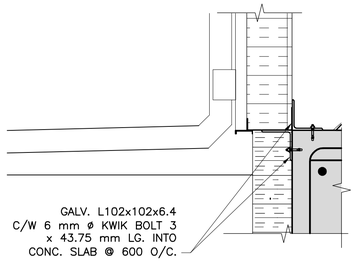
A S02 SECTION 1:25
S03, S05



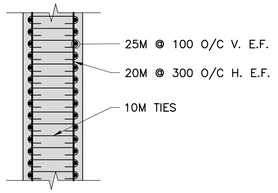
1 S03 DETAIL 1:10



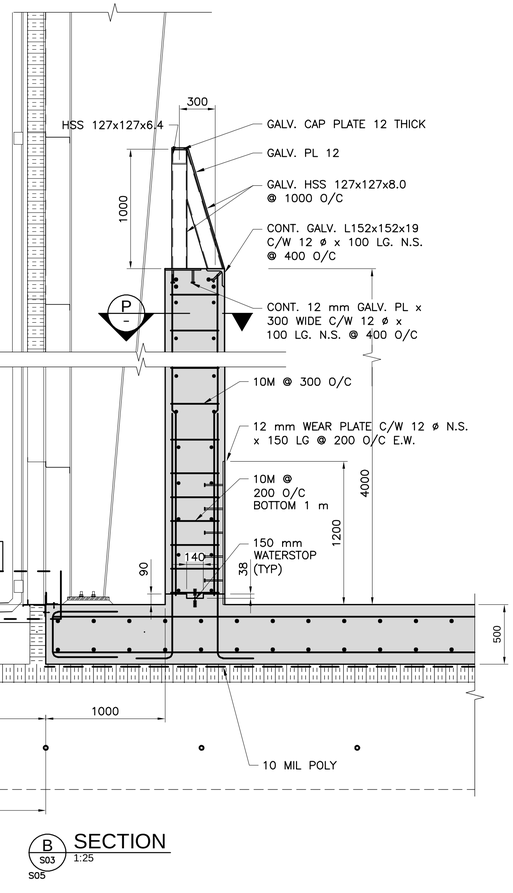
2 S03 DETAIL 1:10



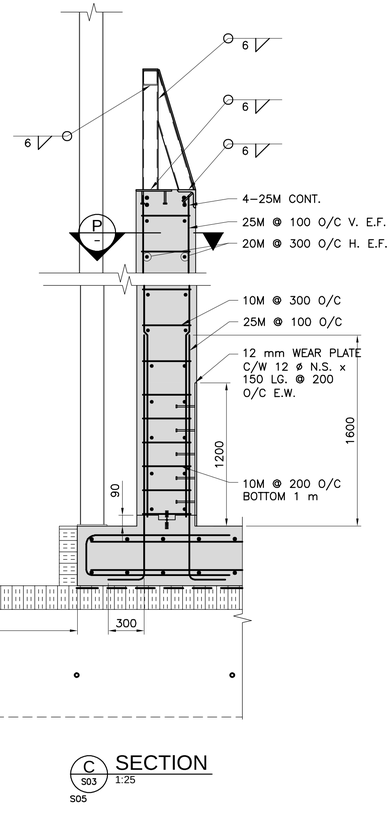
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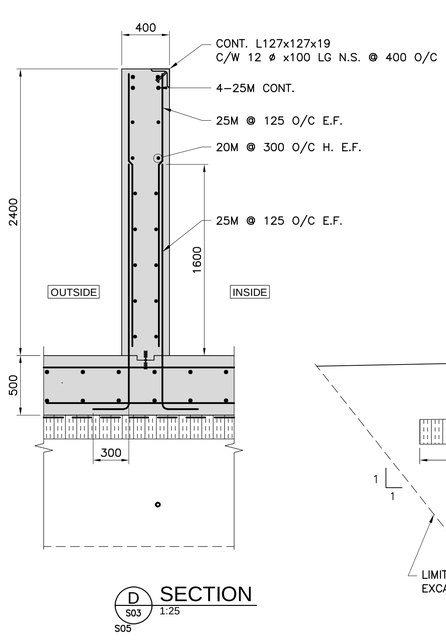
P – SECTION 1:25



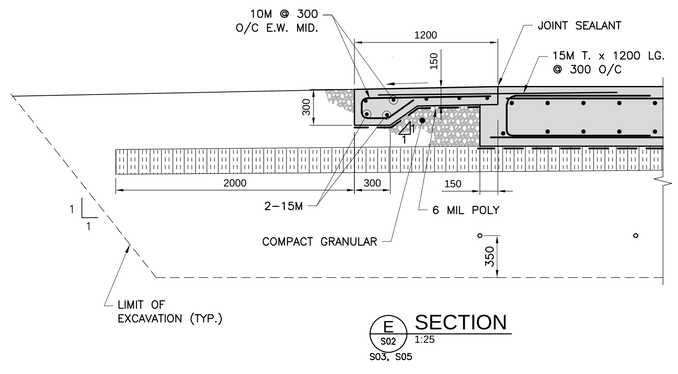
B S03 SECTION 1:25
S05



C S03 SECTION 1:25
S05



D S03 SECTION 1:25
S05



E S02 SECTION 1:25
S03, S05

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W.A. ORMSHAW
LICENSEE
OCT 30 2020
NWT/NU

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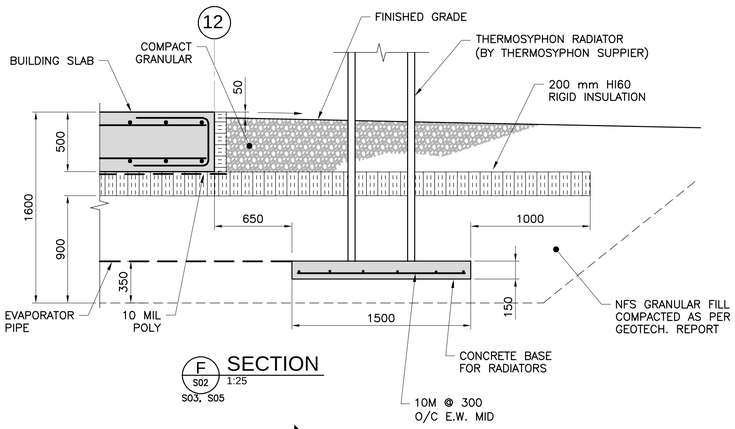
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DRAWN: DJB | CHECKED BY: MBL
DATE: OCT 2019
SCALE:

CITY OF IQALUIT
WASTE TRANSFER STATION

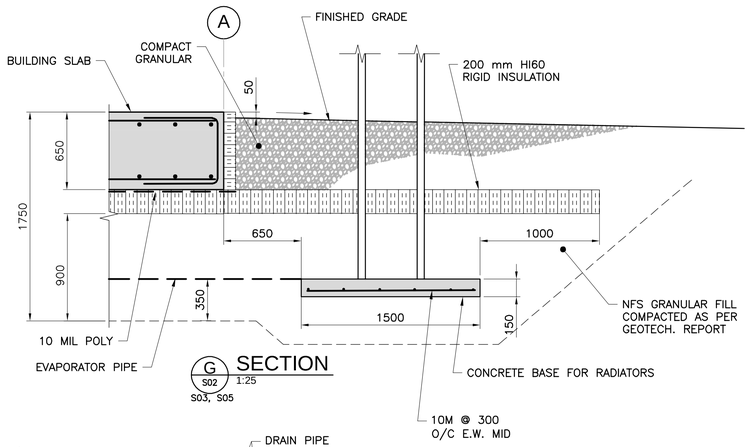
PROJECT NO. 19-9543

SLAB SECTIONS & DETAILS 1

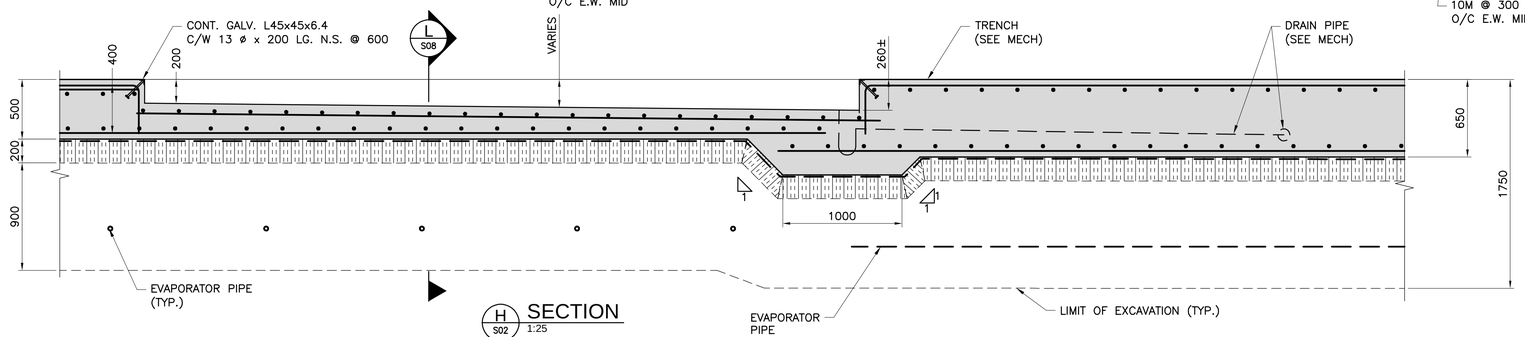
SHEET NO. WTS-**S06**



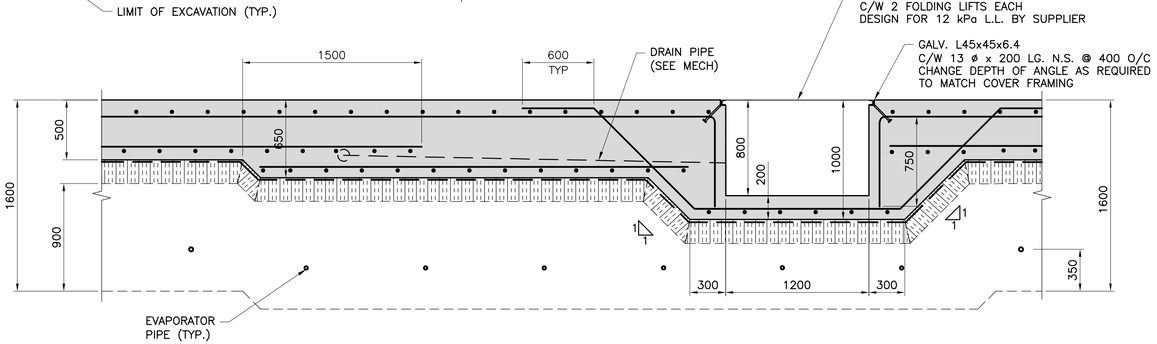
F S02 1:25 SECTION
S03, S05



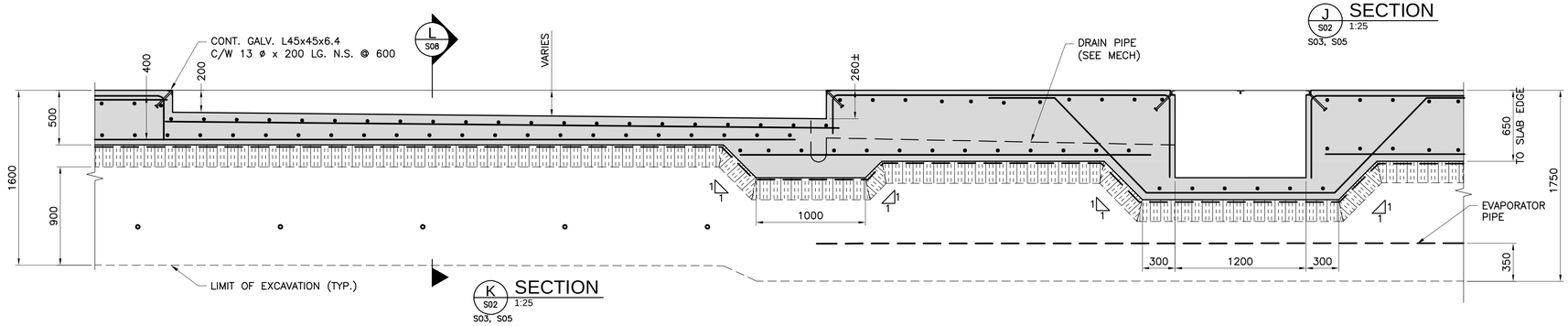
G S02 1:25 SECTION
S03, S05



H S02 1:25 SECTION
S03, S05



J S02 1:25 SECTION
S03, S05



K S02 1:25 SECTION
S03, S05

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DESIGN NR | REVIEWED BY DRA
DRAWN DJB | CHECKED BY MBL
DATE OCT 2019
SCALE

CITY OF IQALUIT
WASTE TRANSFER STATION

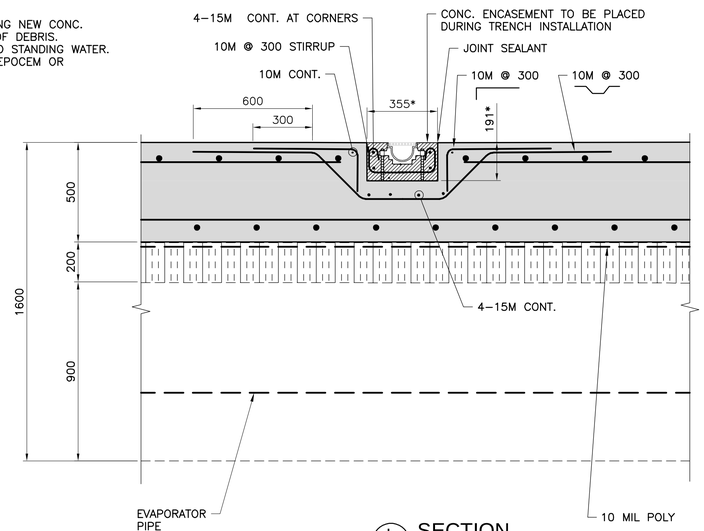
SLAB SECTIONS & DETAILS 2

PROJECT NO. 19-9543

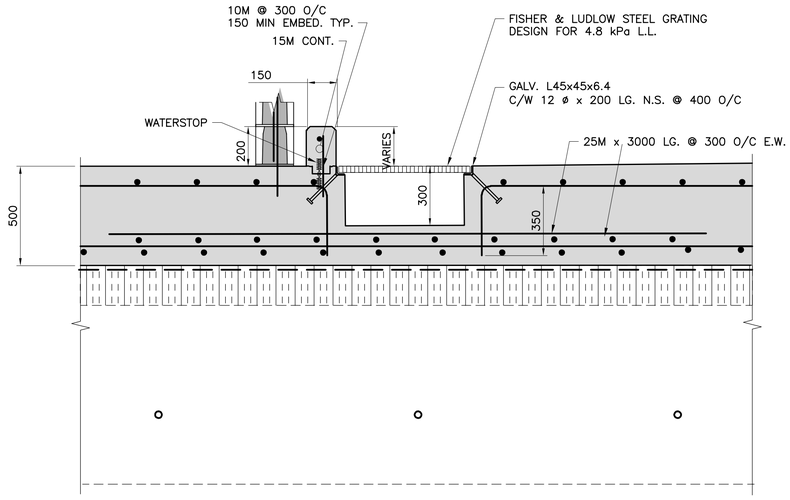
SHEET NO. WTS-**S07**

NOTES:
1. ROUGHEN SURFACE RECEIVING NEW CONC.
2. SURFACE TO BE CLEANED OF DEBRIS.
3. SATURATE SURFACE WITH NO STANDING WATER.
4. APPLY SIKA ARMATEC 110 EPOCEM OR APPROVED BONDING AGENT.

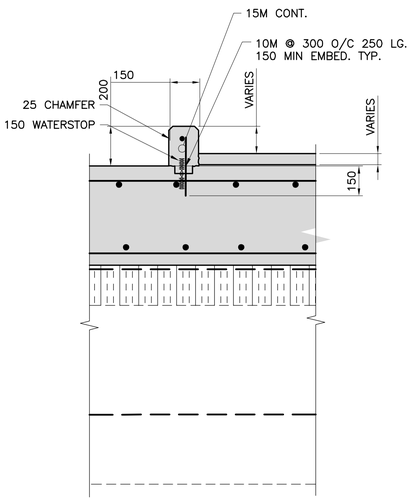
* VERIFY TRENCH DIMENSION PRIOR TO FABRICATION REINF. IF DIMENSIONS ARE DIFF. NOTIFY ENGINEER OF RECORD IMMEDIATELY



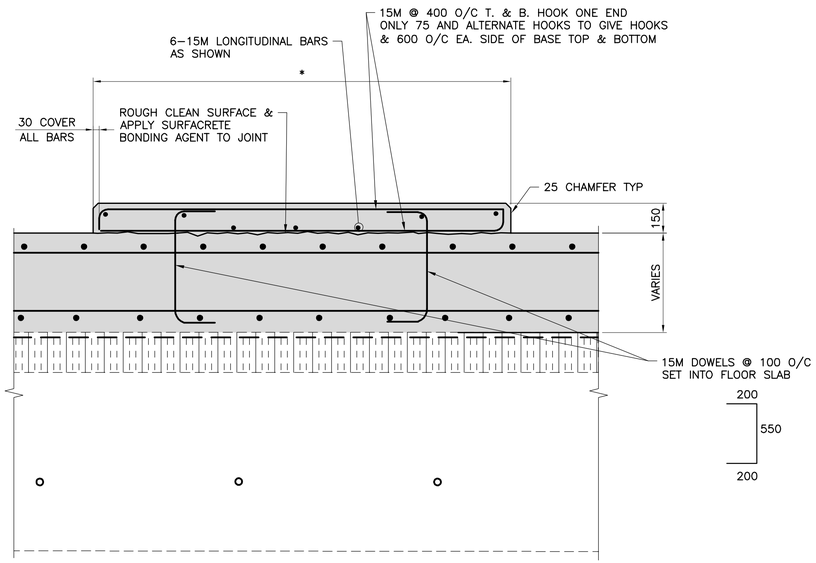
L S03 SECTION 1:15
S05, S07



M S03 SECTION 1:15

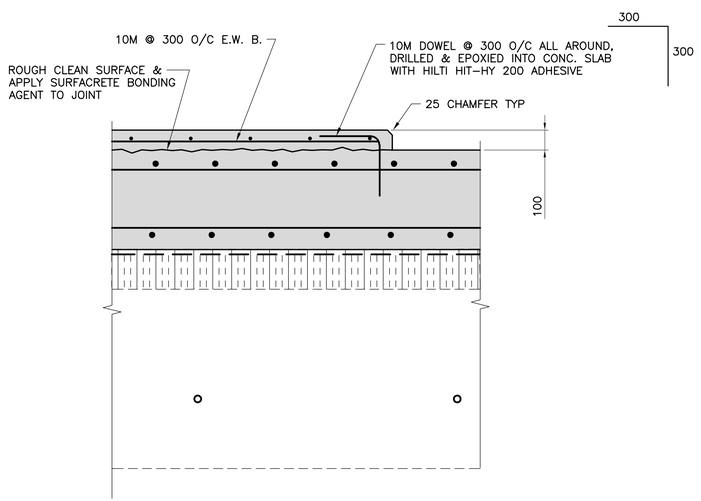


N S03 SECTION 1:15

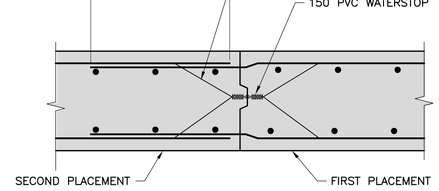


NOTE:
* DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR AGAINST FINAL APPROVED EQUIPMENT SHOP DRAWINGS AND ADJUSTED FOR ACCURATE FIT & LOCATION

BALER HOUSEKEEPING PAD
1:15

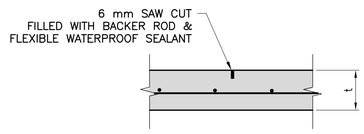


HOUSEKEEPING PAD
1:15



CONSTRUCTION JOINT IN SLAB & WALL
1:15

NOTE: CONTRACTOR TO SUBMIT CONSTRUCTION JOINT LOCATION PRIOR TO CONSTRUCTION.



CONTROL JOINT DETAIL
1:15

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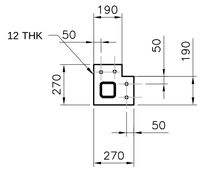
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NR	DRA
DRAWN	CHECKED BY
DJB	MBL
DATE	OCT 2019
SCALE	

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

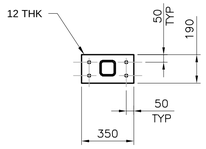
SLAB SECTIONS & DETAILS 3

SHEET NO. WTS-**S08**



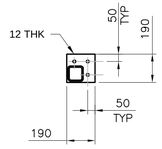
GALV. PLATE C/W 4-12x137
SS304 KB-TZ EXP. ANCHORS

BP1 DETAIL
1:20



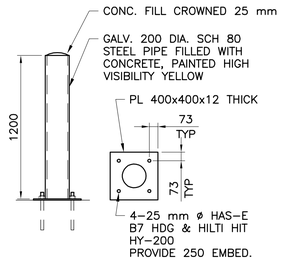
GALV. PLATE C/W 4-12x137
SS304 KB-TZ EXP. ANCHORS

BP2 DETAIL
1:20

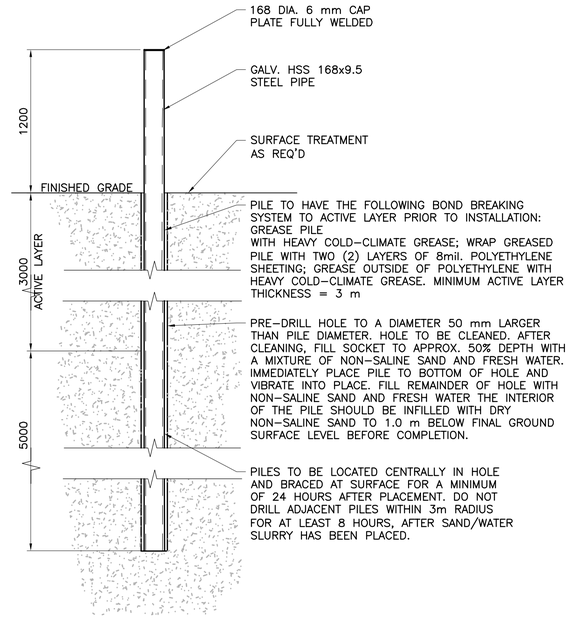


GALV. PLATE C/W 3-12x137
SS304 KB-TZ EXP. ANCHORS

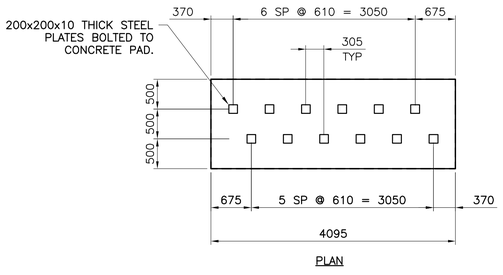
BP3 DETAIL
1:20



BOLLARD DETAIL "B1"
1:20

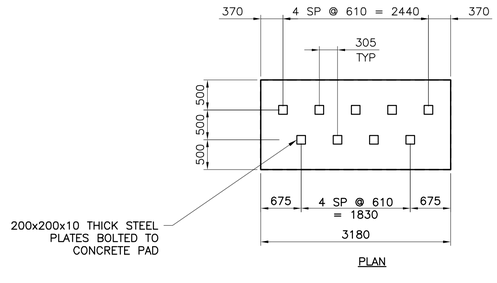


BOLLARD DETAIL "B2"
N.T.S.



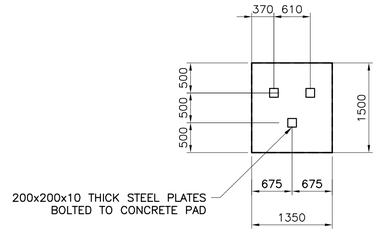
PLAN

MANIFOLD 1
THERMOSYPHON PAD DETAIL
1:125
FOR REINF. SEE SECTION G SHEET S07



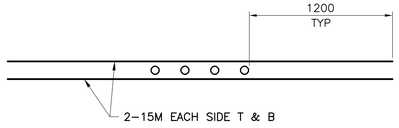
PLAN

MANIFOLD 2
THERMOSYPHON PAD DETAIL
1:125
FOR REINF. SEE SECTION G SHEET S07



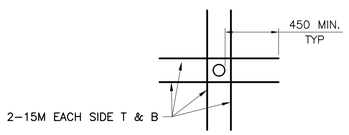
PLAN

MANIFOLD 3
THERMOSYPHON PAD DETAIL
1:50
FOR REINF. SEE SECTION H SHEET S07



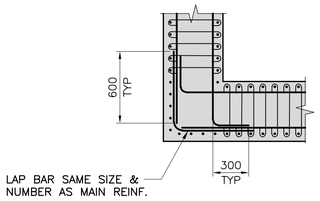
PLAN

ADDITIONAL SLAB REINFORCEMENT
WITH FOUR OR MORE SLEEVES
1:25



PLAN

REINFORCEMENT AROUND SLEEVES
WITH DIAMETER LARGER THAN 100 mm
1:25



TYPICAL CORNER REINFORCING
1:25
500 PUSH WALL SHOWN
400 CONC. WALL SIMILAR, WITHOUT TIES

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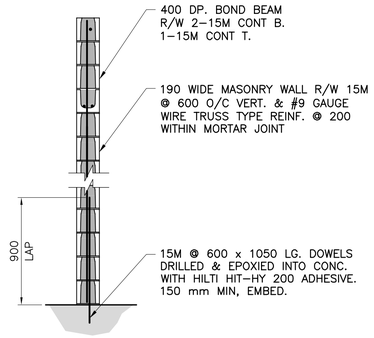
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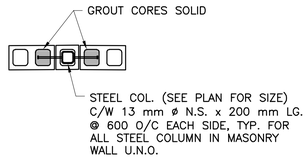
BASE PLATES, MANIFOLDS & TYPICAL DETAILS

PROJECT NO. 19-9543

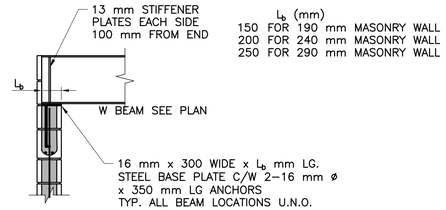
SHEET NO. WTS-**S09**



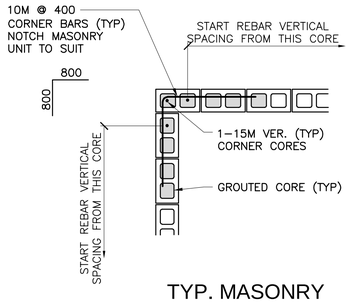
TYP. MASONRY
WALL REINFORCING
1:25



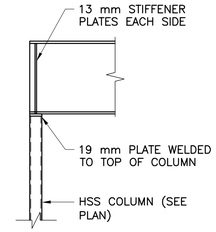
TYP. STEEL COLUMN
IN MASONRY WALL PLAN DETAIL
1:25



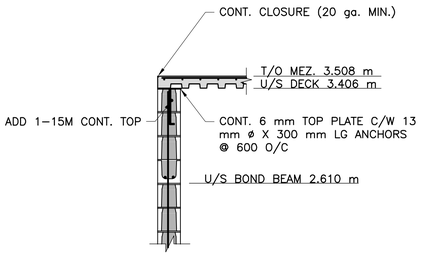
TYP. STEEL BEAM
BEARING ON MASONRY WALL
1:25



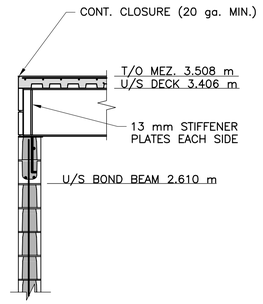
TYP. MASONRY
CORNER REINFORCING
1:25



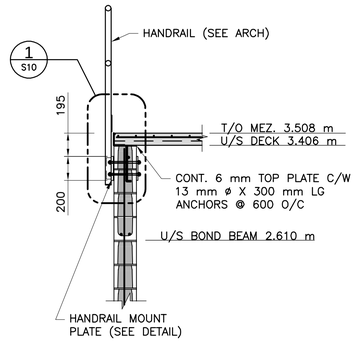
TYP. STEEL BEAM
ON HSS COLUMN
1:25



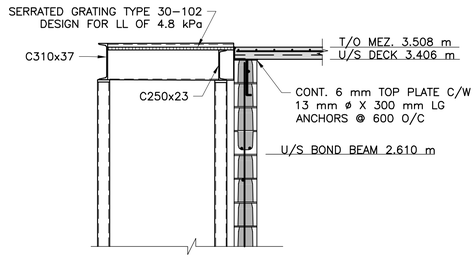
MA S04 SECTION
1:25



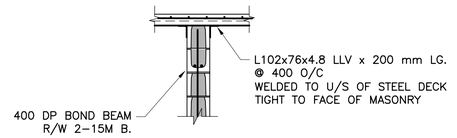
MB S04 SECTION
1:25



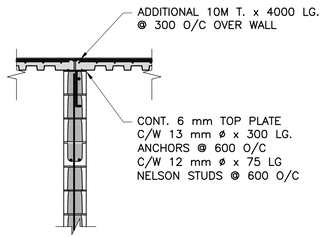
MC S04 SECTION
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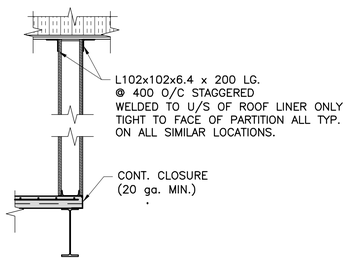
MD S04 SECTION
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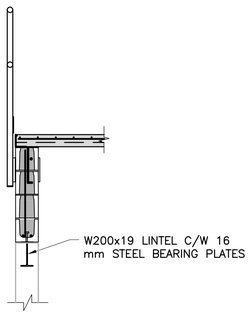
ME S04 SECTION
1:25



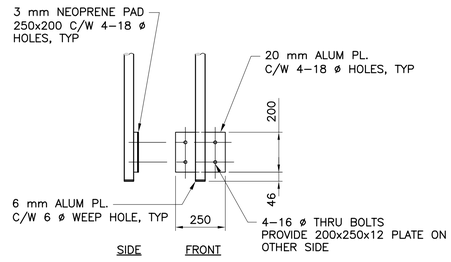
MF S04 SECTION
1:25



MG S04 SECTION
1:25



MH S04 SECTION
1:25



1 S10 HAND RAIL MOUNT PLATE DETAIL
1:15

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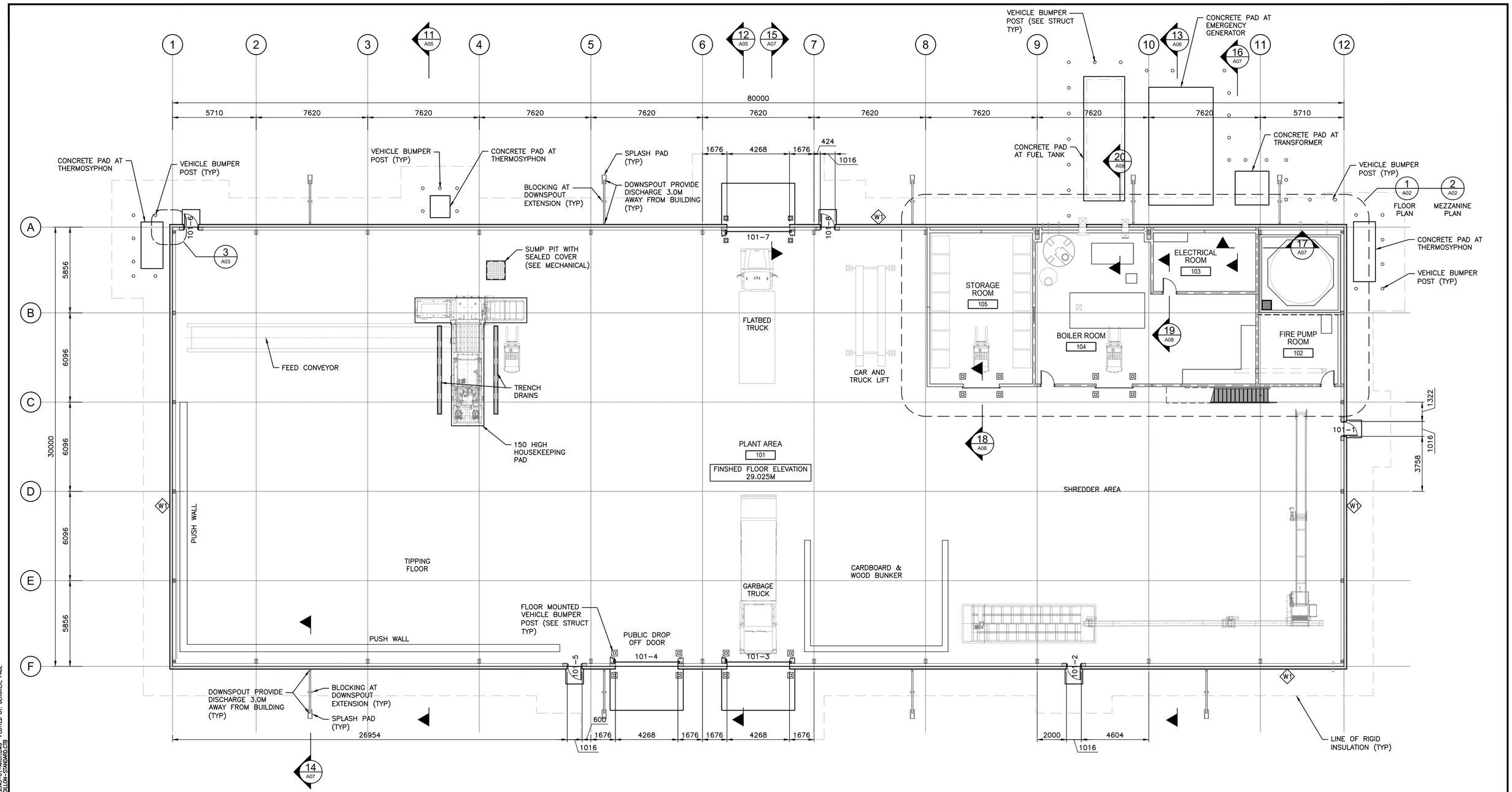
DESIGN	NR
REVIEWED BY	DRA
DRAWN	DJB
CHECKED BY	MBL
DATE	OCT 2019
SCALE	

CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

MEZZANINE SECTIONS & DETAILS

SHEET NO. WTS-**S10**



FLOOR PLAN
1:125

SCALE 1:125 2.5 0 2.5 METRES

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\19PDR\DMS12728\19543-01-ARCHLDWG PLOTTED BY: DERUITER, PAUL
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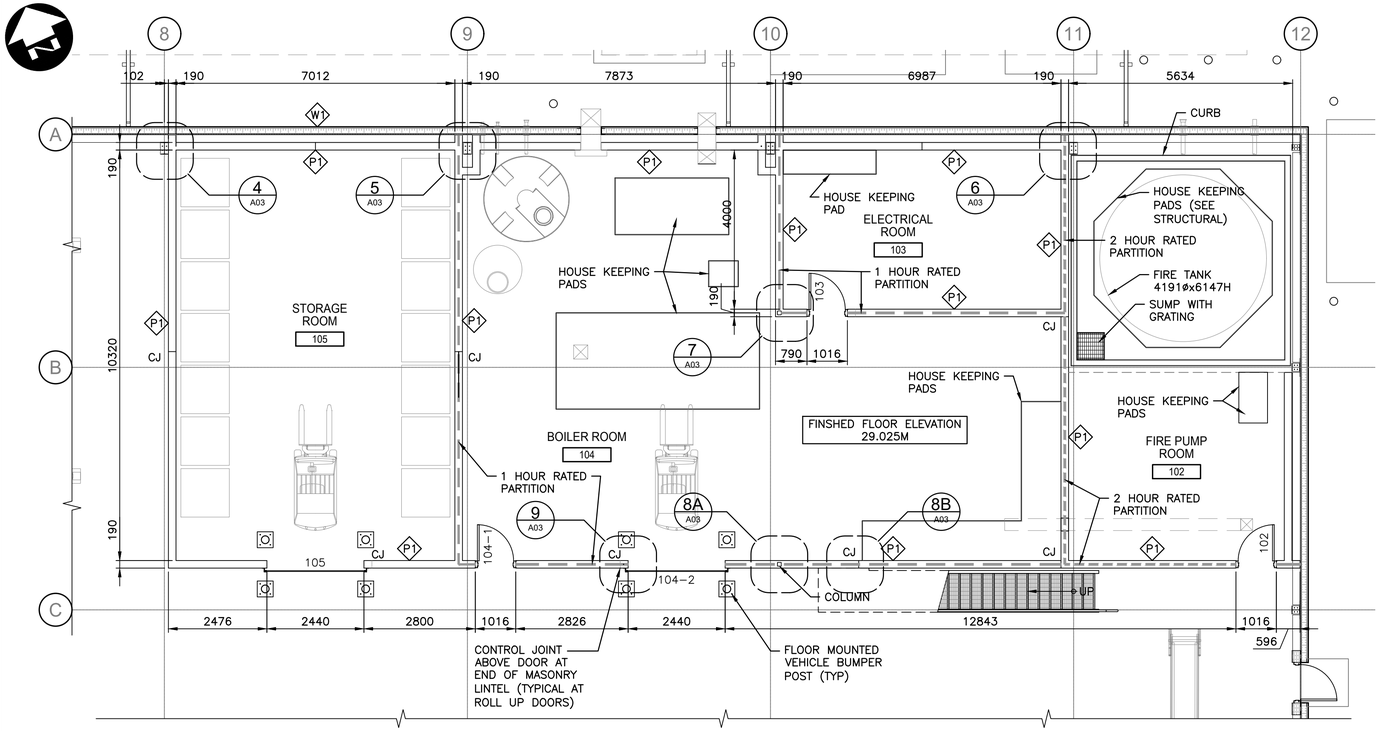
DESIGN JAA | REVIEWED BY
DRAWN PDR | CHECKED BY
DATE OCT 2019
SCALE NOTED

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WASTE TRANSFER STATION

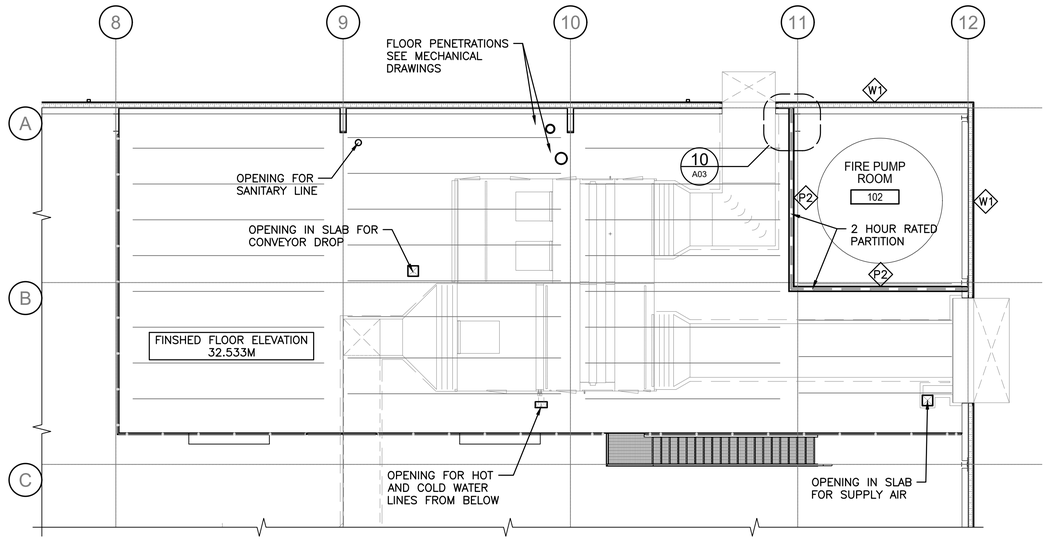
PROJECT NO. 19-9543

FLOOR PLAN

SHEET NO. **WTS-A01**



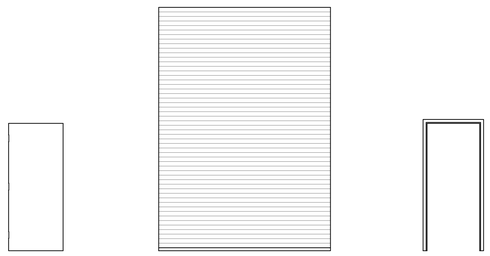
1 A01 FLOOR PLAN
1:75



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	HDR	–	LP_CMU	PNT	LP	PREFIN	–	
103	ELECTRICAL ROOM	CONC	HDR	–	LP_CMU	PNT	LP	PREFIN	–	
104	BOILER ROOM	CONC	HDR	–	LP_CMU	PNT	LP	PREFIN	–	
105	STORAGE ROOM	CONC	HDR	–	LP_CMU	PNT	LP	PREFIN	–	
106	MEZZANINE AREA	CONC	HDR	–	LP	PNT	LP	PREFIN	–	



DOOR, FRAME ELEVATIONS
1:50

DOOR, FRAME AND HARDWARE SCHEDULE

NUMBER	FROM	TO	SWING	DOOR TYPE	WIDTH	HEIGHT	THICK	MAT	FINISH	GLAZING	FRAME TYPE	MAT	FINISH	RATING	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	4268	6096	45										
101–4	101	EXT	–	OH	4268	6096	45										
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										
101–8	101	EXT	LH	F	914	2134	45	HM	PT		F1	TBHM	PT			INSULATED DOOR AND FRAME	PKG 1
102	101	102	RH	F	914	2134	45	HM	PT		F1	HM	PT	1.5 HR			PKG 3
103	101	103	RH	F	914	2134	45	HM	PT		F1	HM	PT	3/4 HR			PKG 3
104–1	101	104	LH	F	914	2134	45	HM	PT		F1	HM	PT	3/4 HR			PKG 3
104–2	101	105	–	OH	2438	2400		STEEL	PREFIN					3/4 HR		PROVIDE FUSIBLE LINK IN DOOR	
105	101	105	–	OH	2438	2400		STEEL	PREFIN								

HARDWARE PACKAGE 1
3 HINGES (NR PINS)
1 EXIT DEVICE
1 RIM CYLINDER
1 CORE ONLY
1 CLOSER
1 DOOR PULL
1 KICK PLATE
1 THRESHOLD (THERMALLY BROKEN)
1 WEATHERSTRIP
1 DOOR SWEEP

HARDWARE PACKAGE 2
3 HINGES (NR PINS)
1 EXIT DEVICE
1 CLOSER
1 KICK PLATE
1 THRESHOLD
1 WEATHERSTRIP
1 DOOR SWEEP

HARDWARE PACKAGE 3
3 HINGES
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

SCALE 1:75 METRES 1.5 0 1.5
SCALE 1:100 METRES 2 0 2

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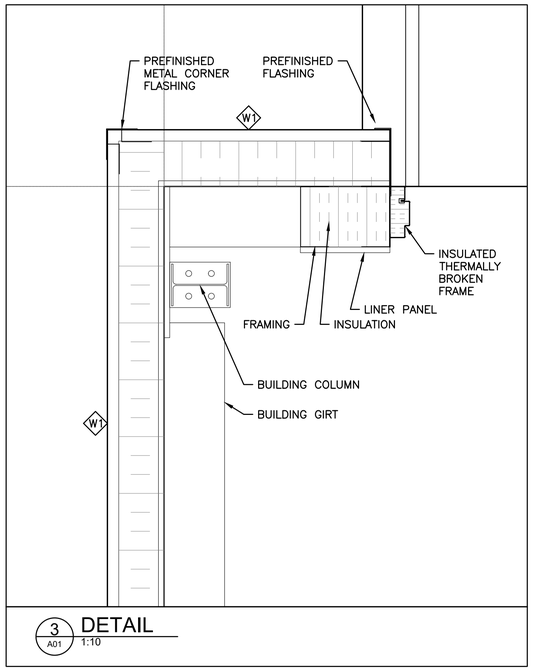
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PROJECT NO. 19-9543

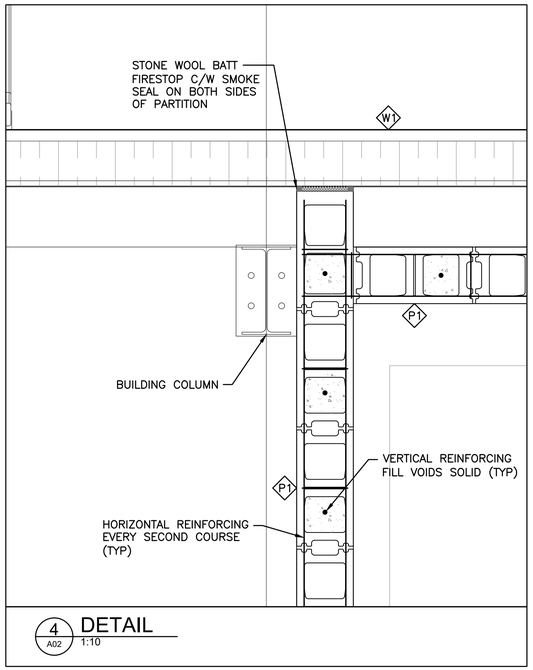
ENLARGED FLOOR PLAN, MEZZANINE PLAN, SCHEDULES, DOOR, FRAME ELEVATIONS ABBREVIATIONS

SHEET NO. WTS-A02

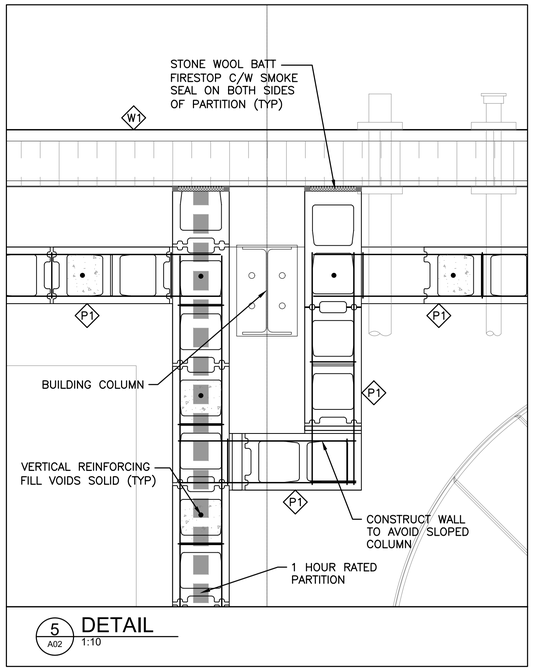
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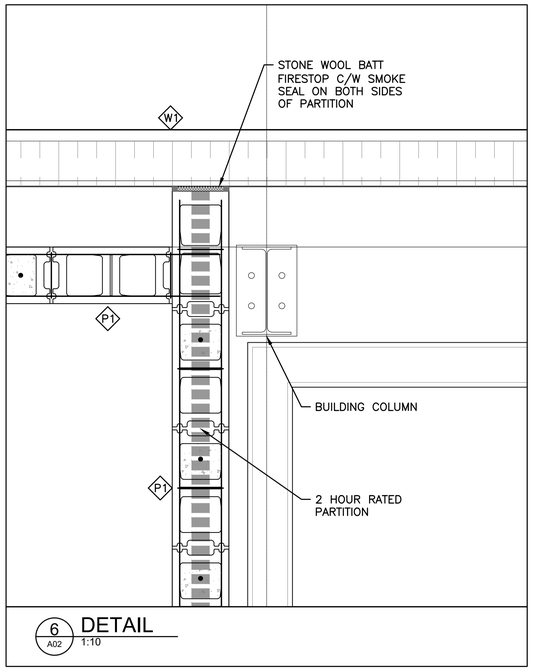
3 A01 DETAIL 1:10



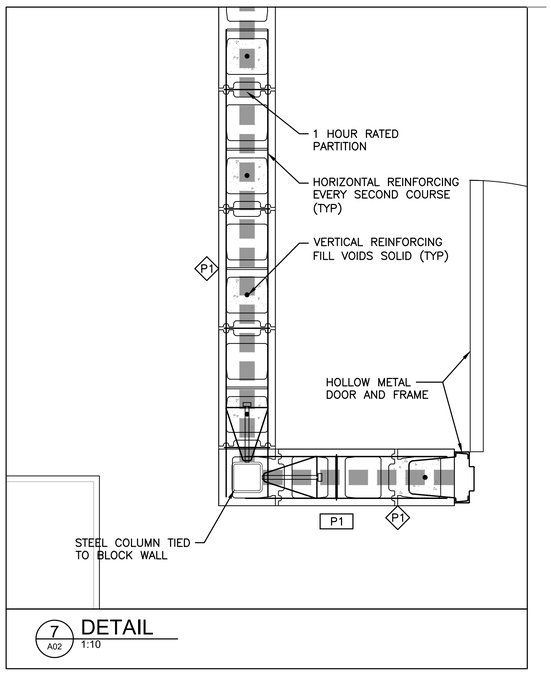
4 A02 DETAIL 1:10



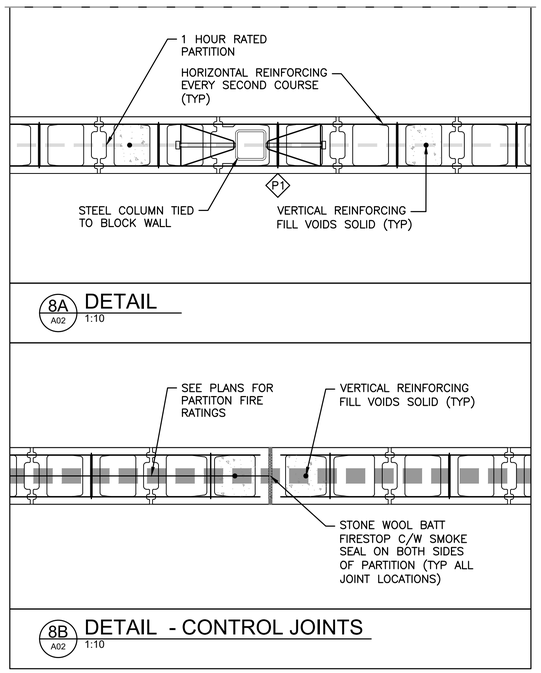
5 A02 DETAIL 1:10



6 A02 DETAIL 1:10

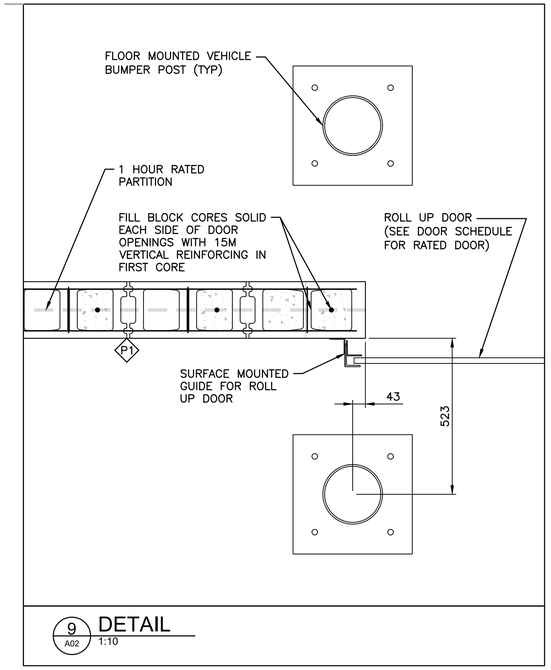


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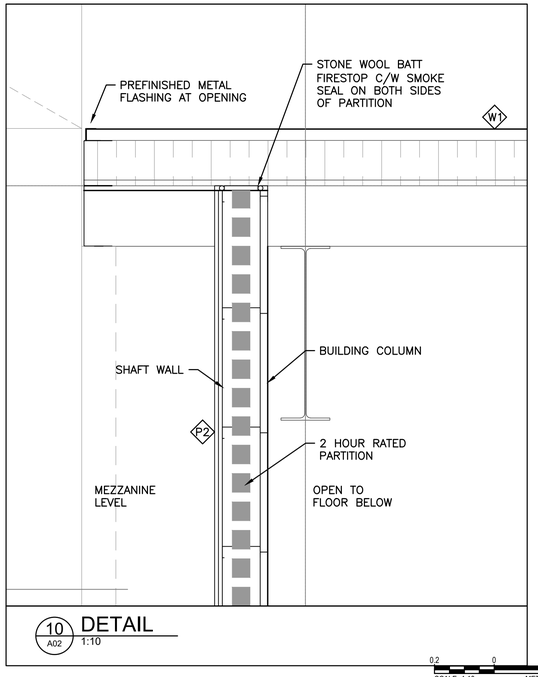


8A A02 DETAIL 1:10

8B A02 DETAIL - CONTROL JOINTS 1:10



9 A02 DETAIL 1:10



10 A02 DETAIL 1:10

0.2 0 0.2
SCALE 1:10 METRES

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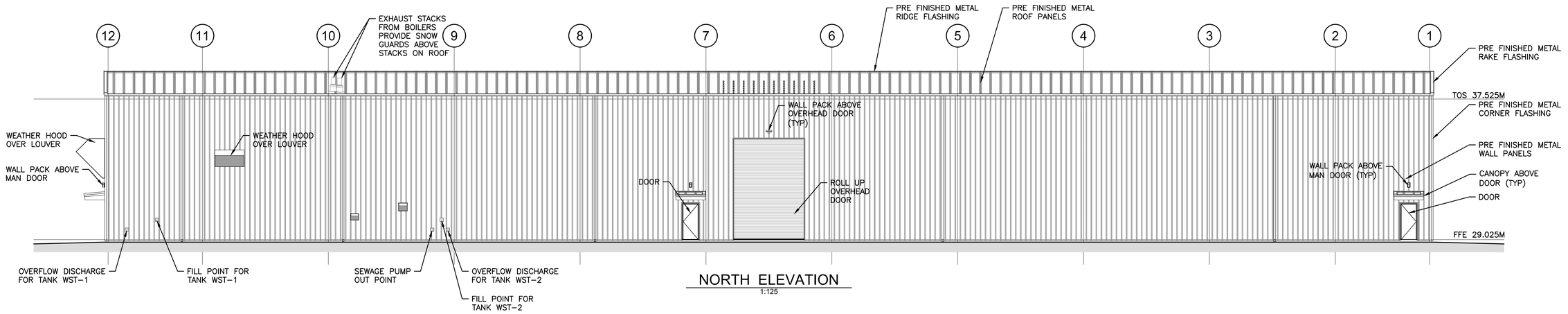
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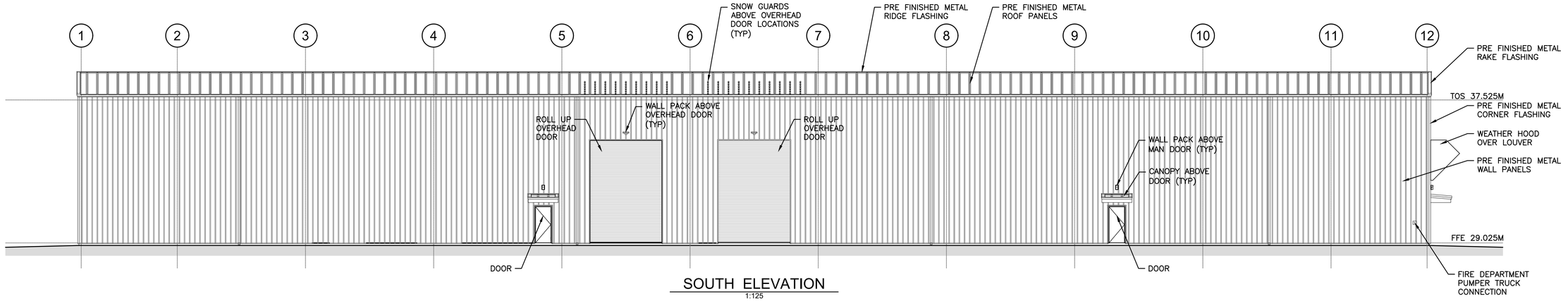
PLAN DETAILS

SHEET NO. WTS-A03

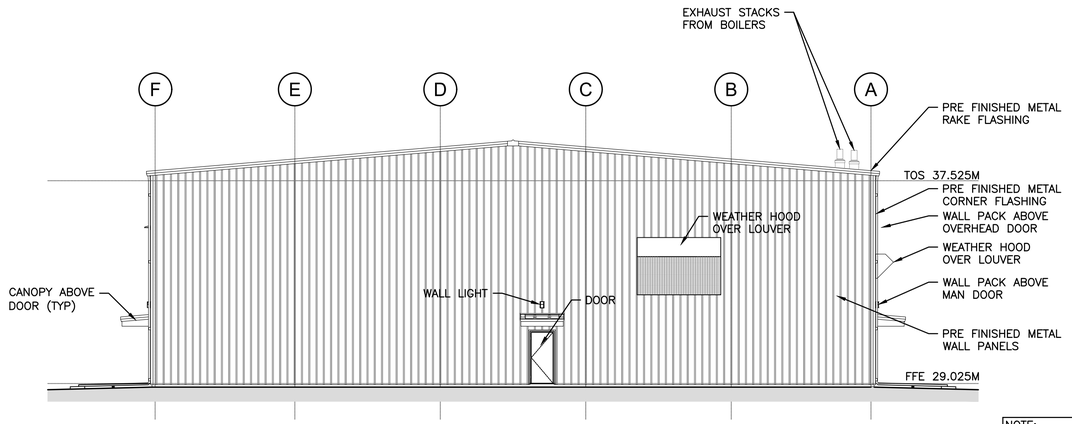
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NORTH ELEVATION
1:125

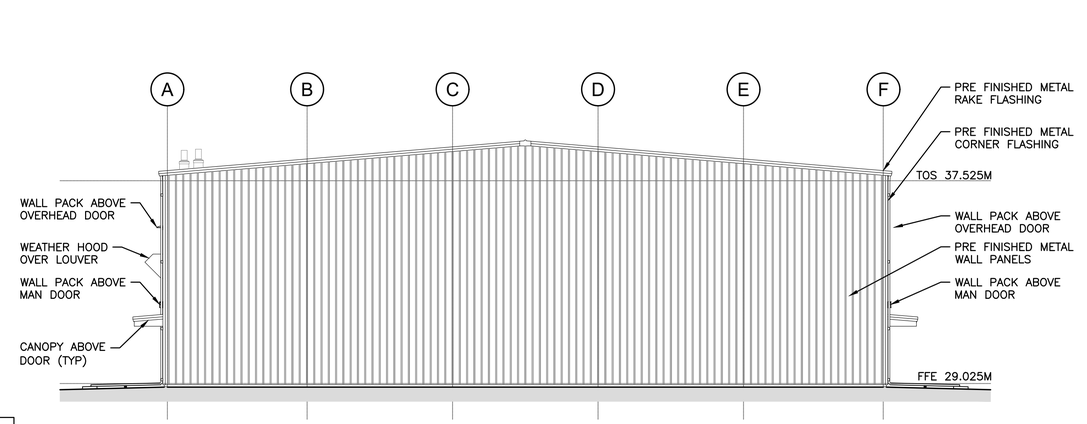


SOUTH ELEVATION
1:125



EAST ELEVATION
1:125

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



WEST ELEVATION
1:125

2.5 0 2.5
SCALE 1:125 METRES

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DATE: OCT 2019
SCALE: NOTED

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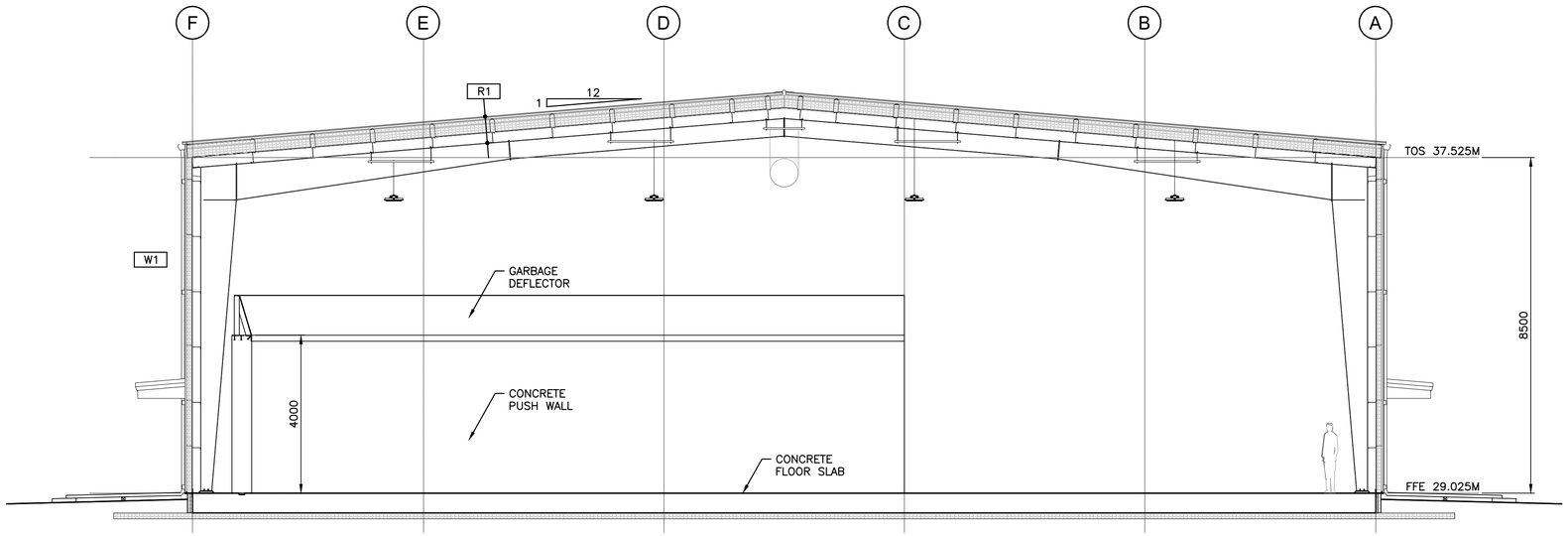
PROJECT NO. 19-9543

BUILDING ELEVATIONS

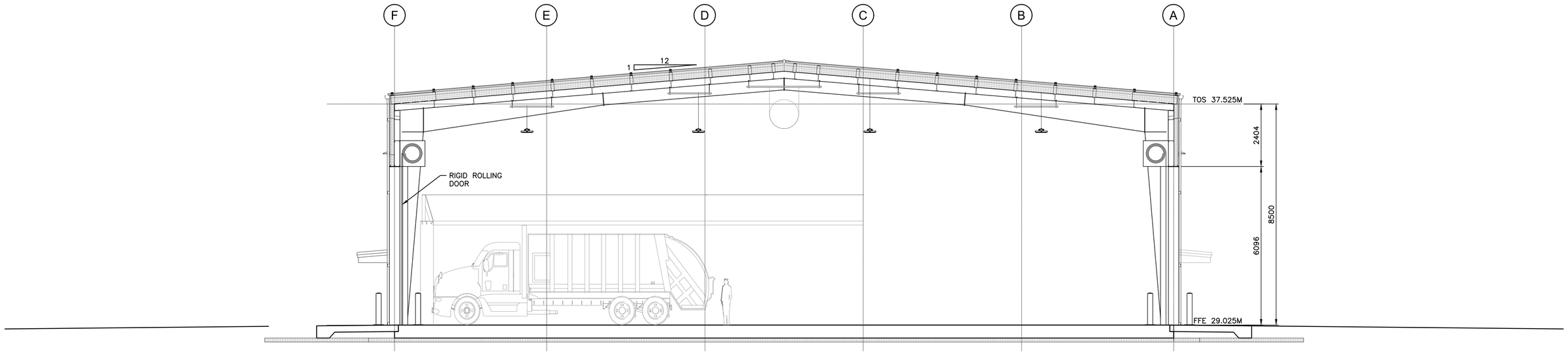
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ROOF SCHEDULE	
TYPE	DESCRIPTION
R1	38 STANDING SEAM ROOF PANELS 51 HAT CHANNELS THERMAL HAT CLIPS TO PROVIDE DEPTH FOR R40 INSULATION R40 SEMI RIGID INSULATION 16 LINER PANE / VAPOUR BARRIER 254 ROOF PURLINS



11 A01 SECTION 1:75



12 A01 SECTION 1:75

1.5 0 1.5
SCALE 1:75 METRES

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DATE OCT 2019
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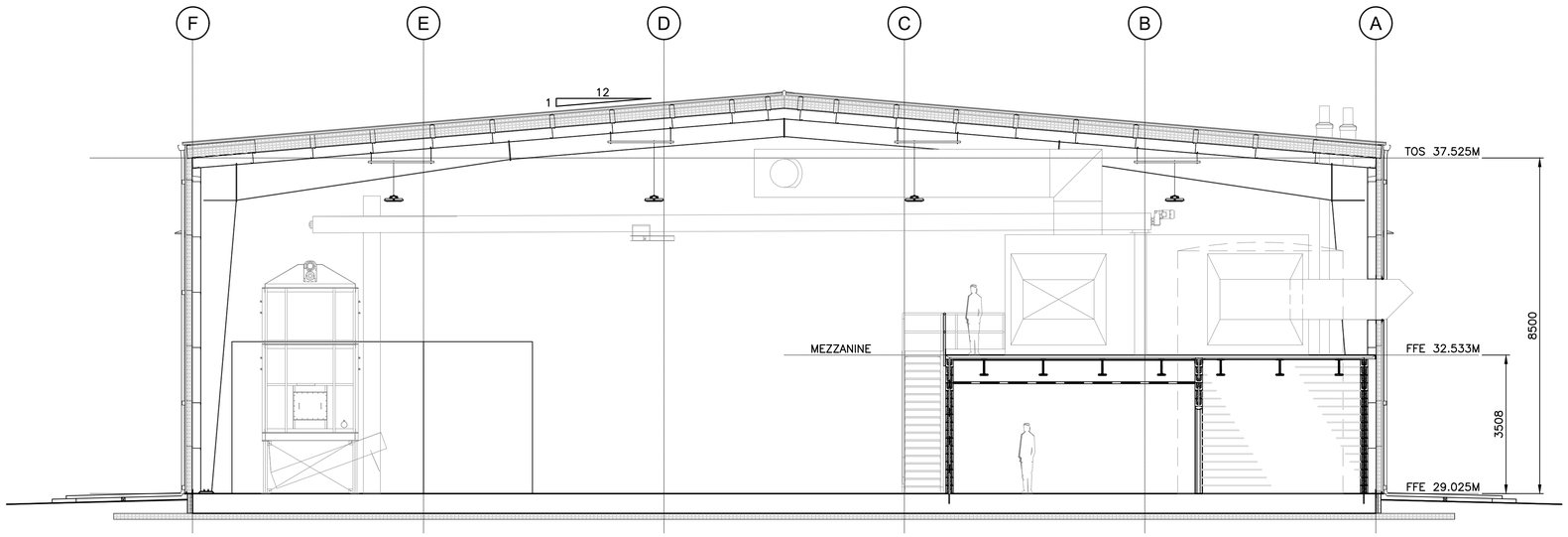
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CROSS SECTIONS SHEET 1

PROJECT NO. 19-9543

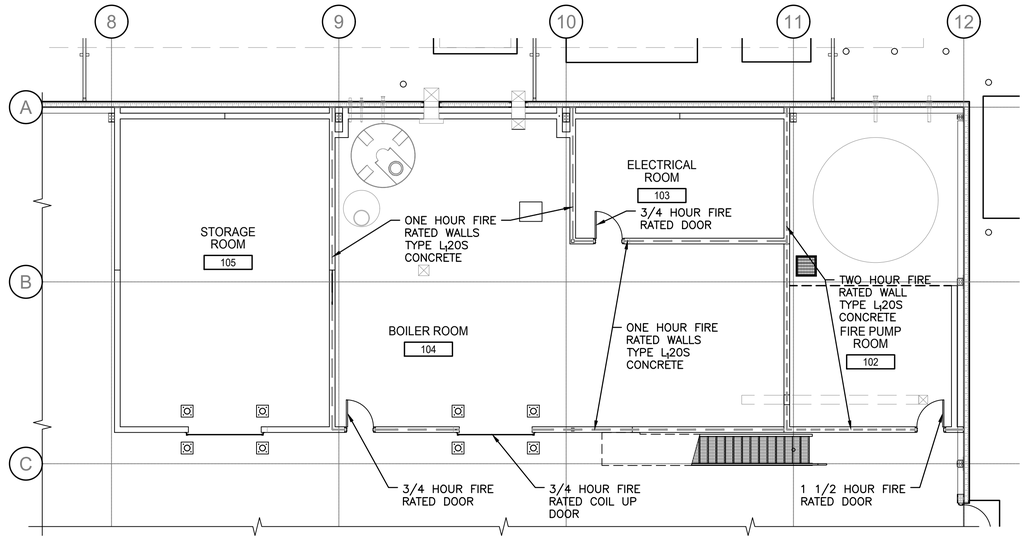
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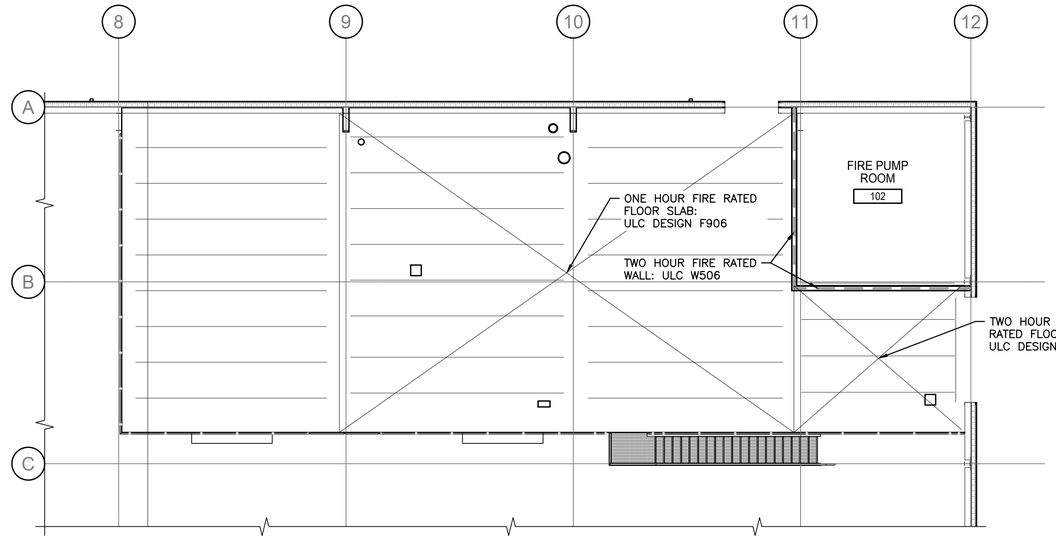


13 A01 SECTION
1:75

SCALE 1:75 1.5 0 1.5 METRES



FIRE RATING FLOOR PLAN
1:100



FIRE RATING MEZZANINE PLAN
1:100

SCALE 1:100 2 0 2 METRES

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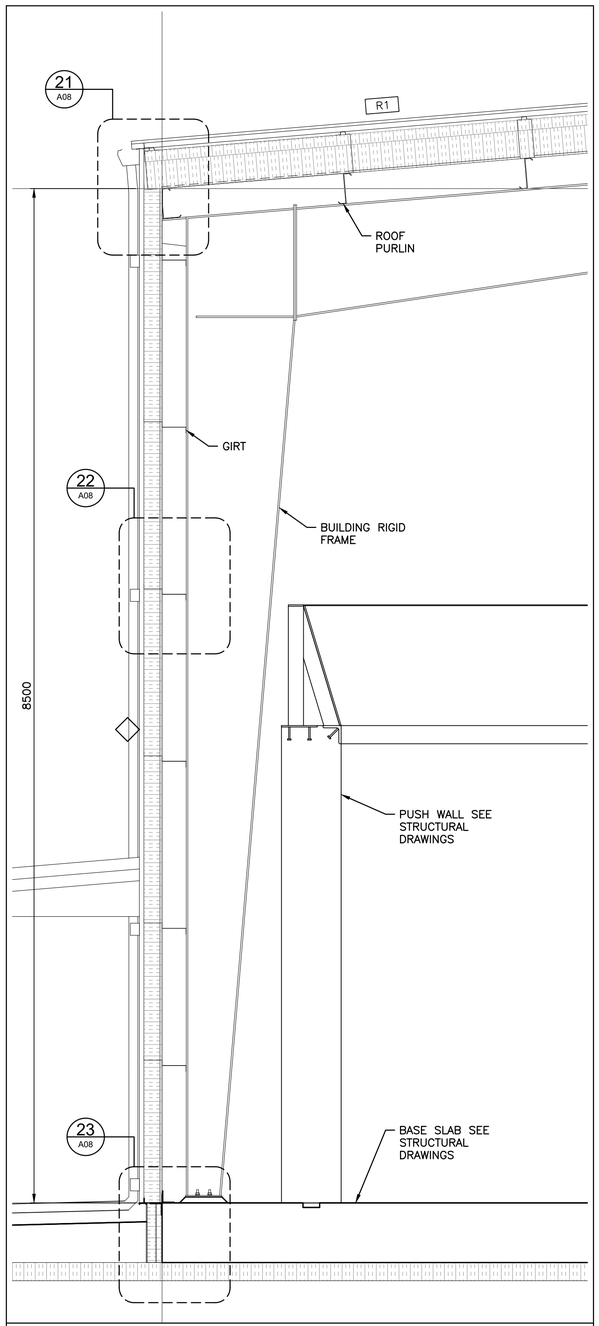
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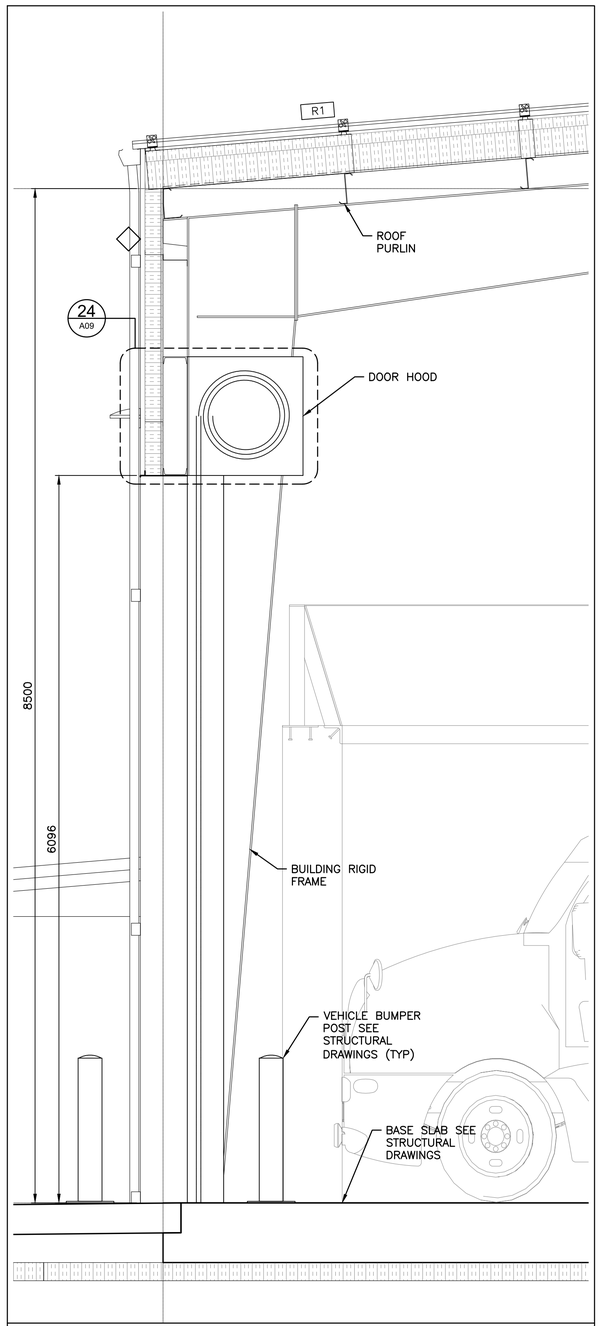
CROSS SECTIONS SHEET 2
FIRE RATED ASSEMBLY PLANS

SHEET NO. WTS-A06

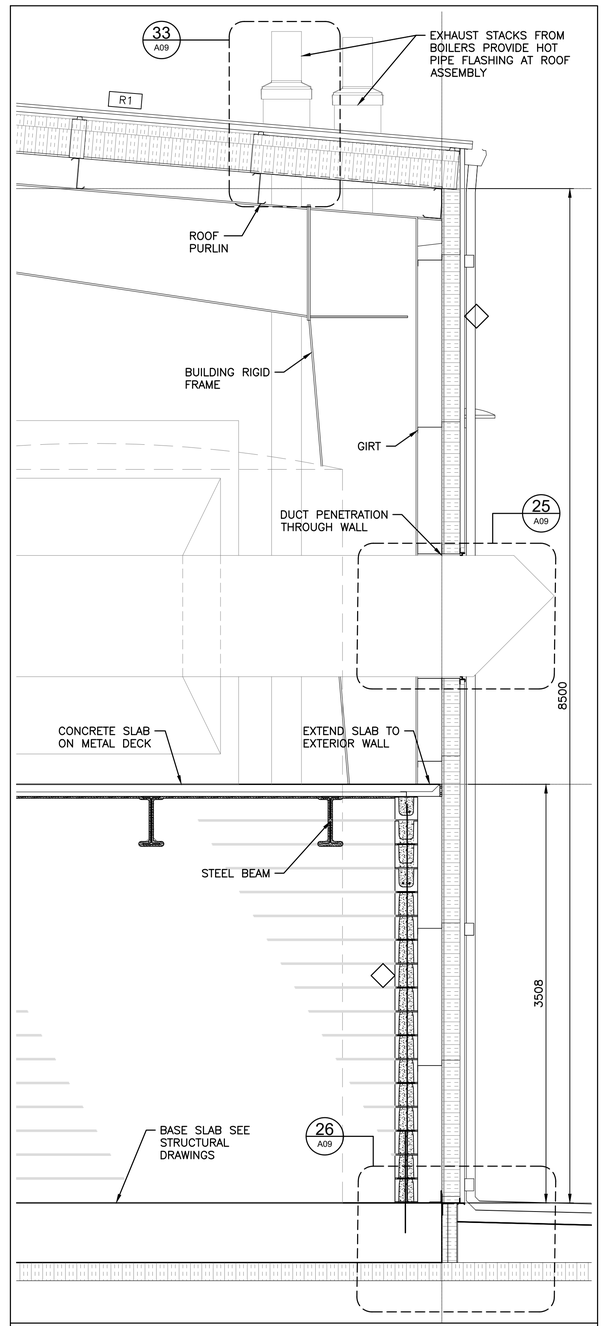
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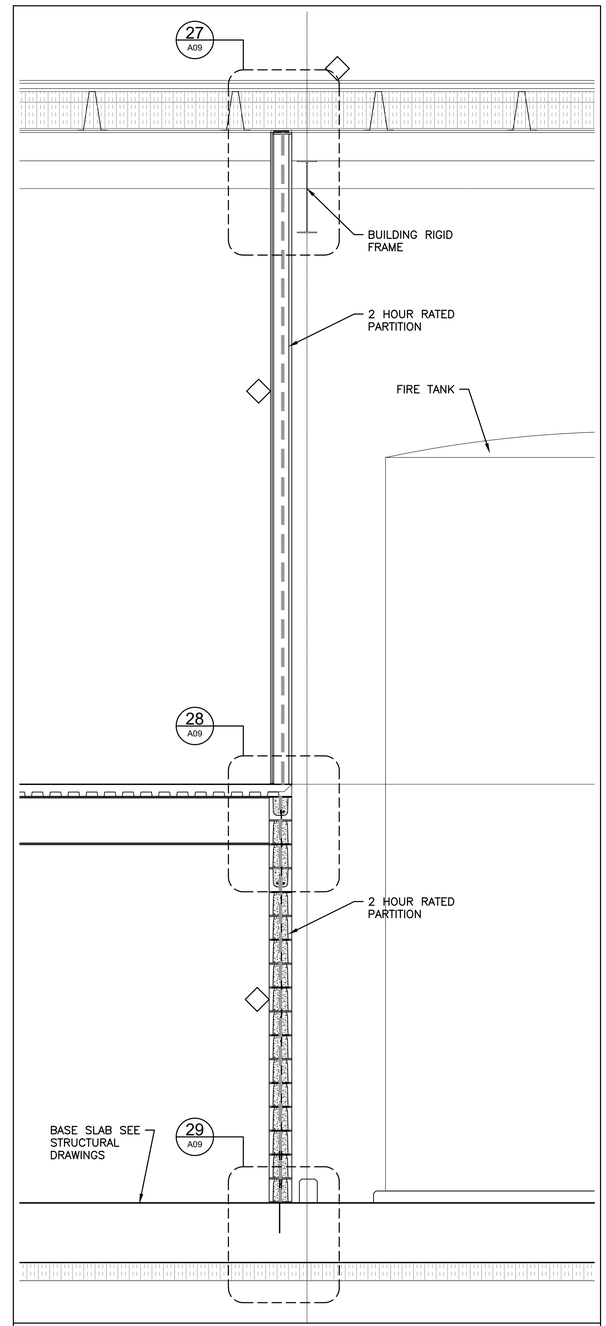
14 A01 SECTION 1:25



15 A01 SECTION 1:25



16 A01 SECTION 1:25



17 A01 SECTION 1:25

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SCALE 1:25 METRES

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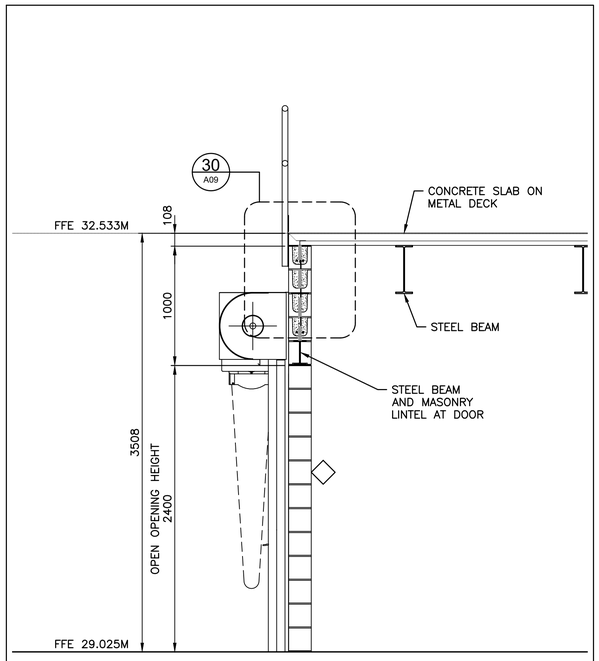
DESIGN JAA | REVIEWED BY
DRAWN PDR | CHECKED BY
DATE OCT 2019
SCALE NOTED

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WASTE TRANSFER STATION

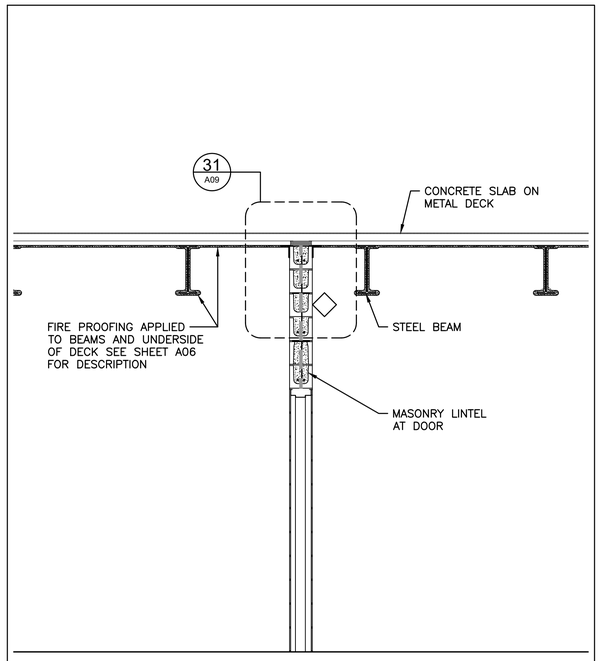
PROJECT NO. 19-9543

WALL SECTIONS SHEET 1

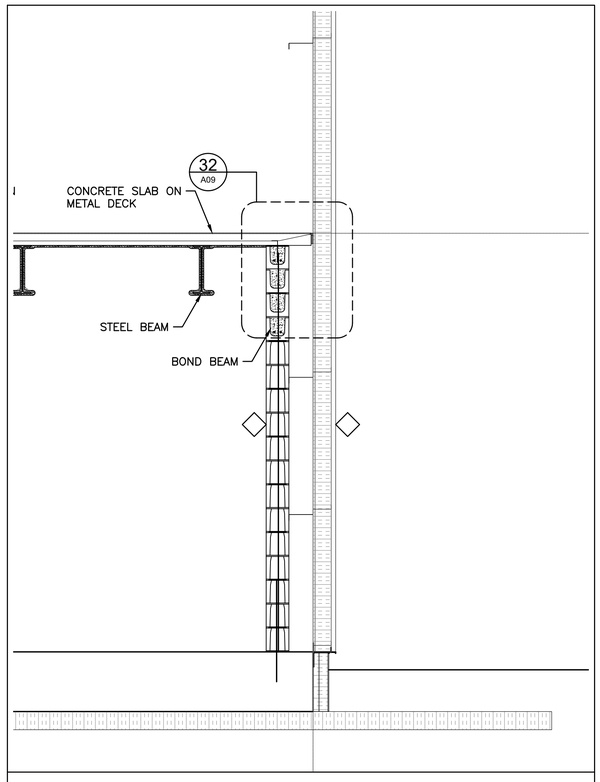
SHEET NO. WTS-A07



18 A01 SECTION 1:25

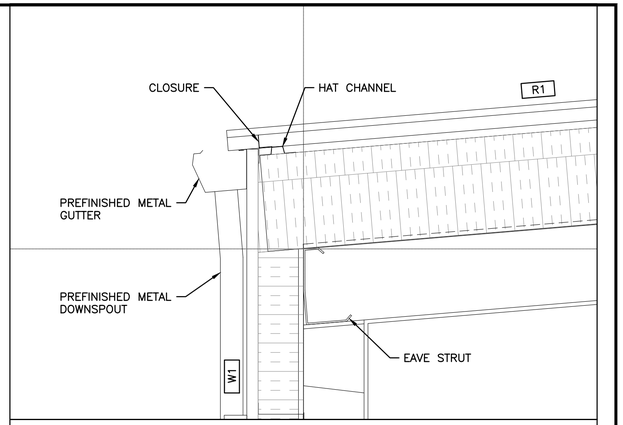


19 A01 SECTION 1:25

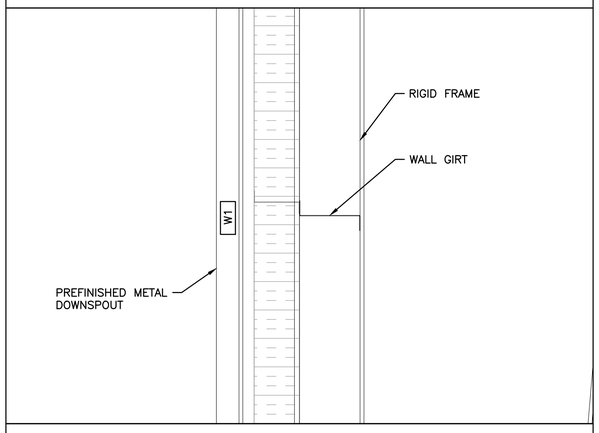


20 A01 SECTION 1:25

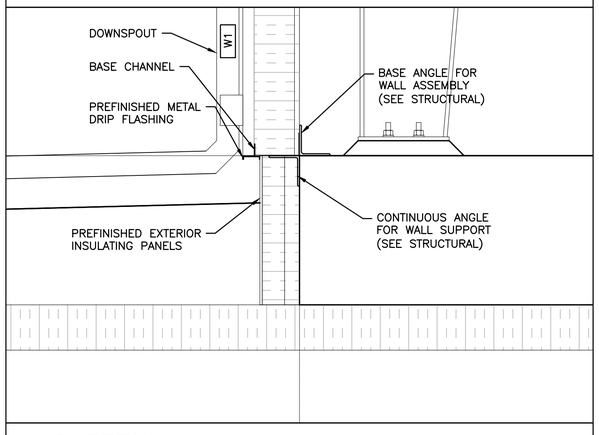
0.5 0 0.5
SCALE 1:25 METRES



21 A07 DETAIL 1:10



22 A07 DETAIL 1:10



23 A07 DETAIL 1:10

0.2 0 0.2
SCALE 1:10 METRES

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DRAWN: PDR | CHECKED BY:
DATE: OCT 2019
SCALE: NOTED

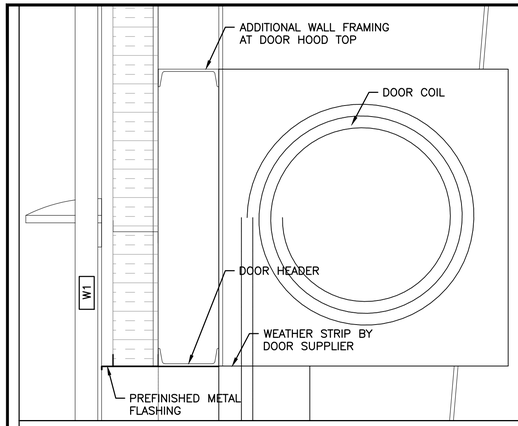
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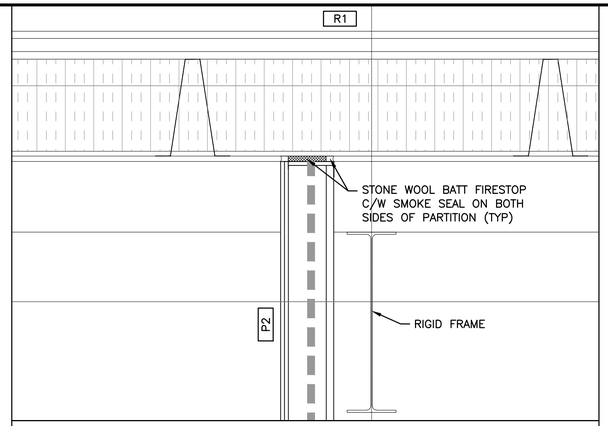
WALL SECTIONS SHEET 2

SHEET NO. WTS-A08

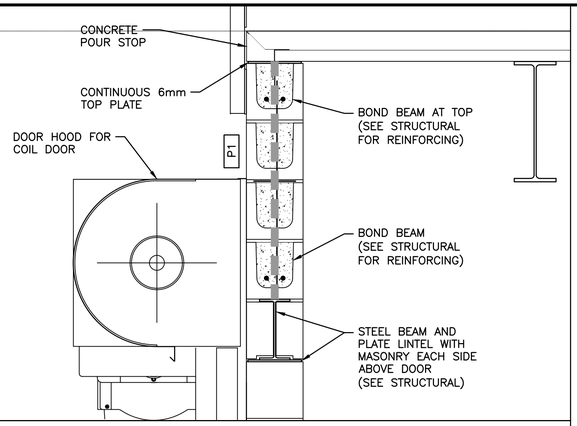
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PLOT DATE: 2020-11-09 @ 11:45:46 AM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



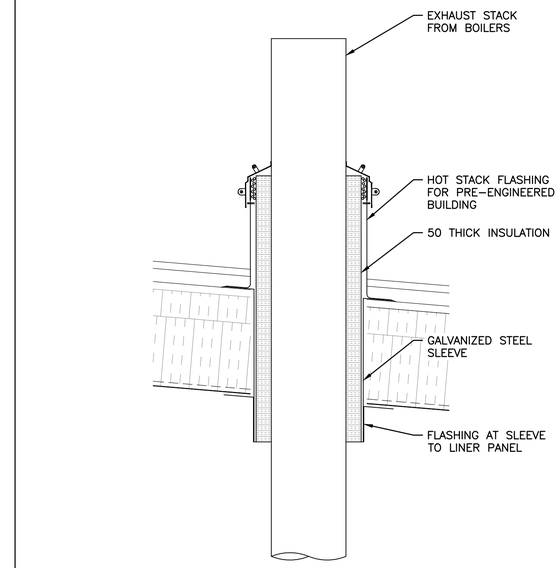
24 A07 DETAIL 1:10



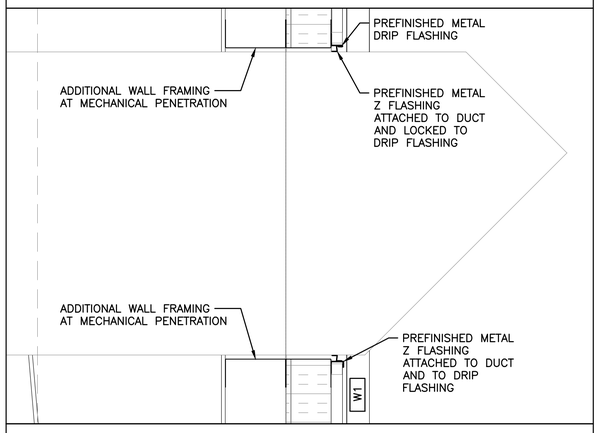
27 A07 DETAIL 1:10



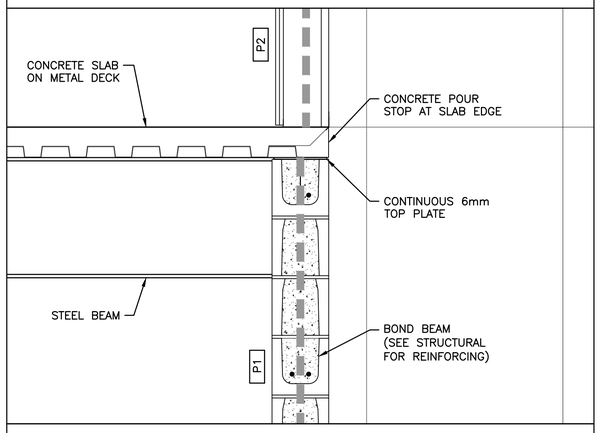
30 A08 DETAIL 1:10



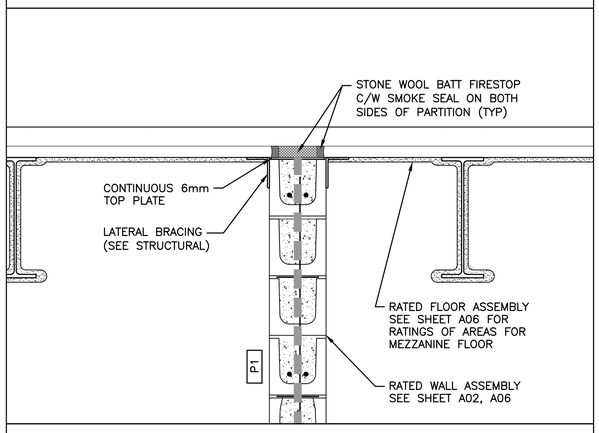
33 A07 DETAIL 1:10



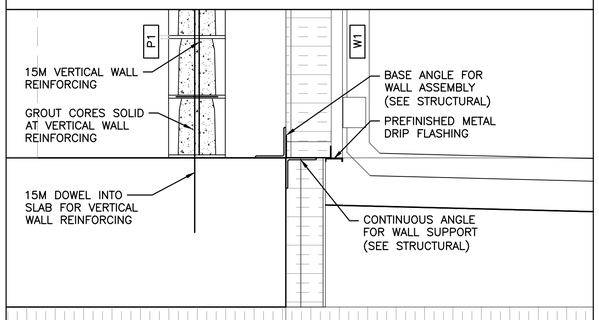
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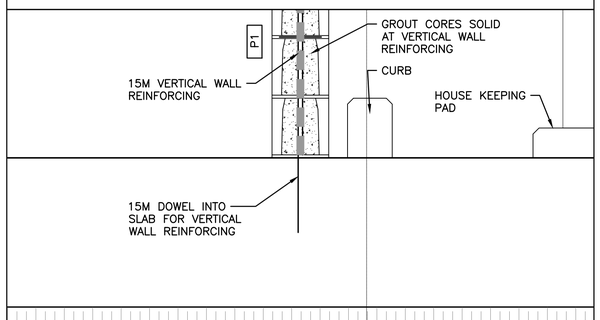
28 A07 DETAIL 1:10



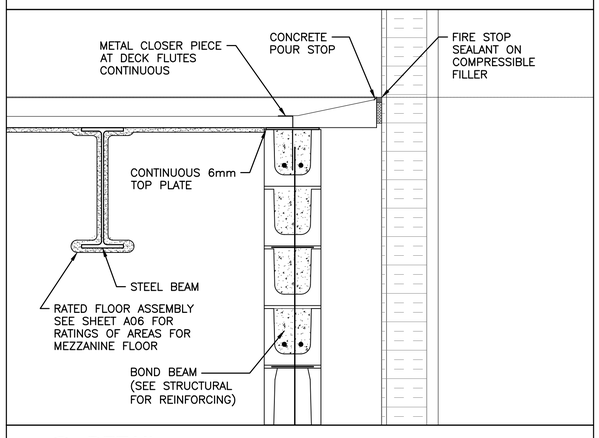
31 A08 DETAIL 1:10



26 A07 DETAIL 1:10



29 A08 DETAIL 1:10



32 A07 DETAIL 1:10

0.2 0 0.2
SCALE 1:10 METRES

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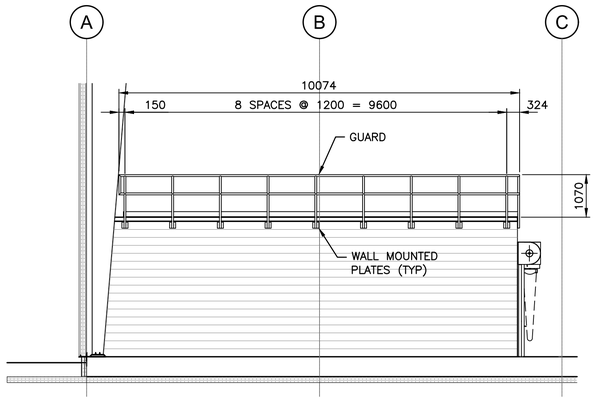
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WASTE TRANSFER STATION

PROJECT NO. 19-9543

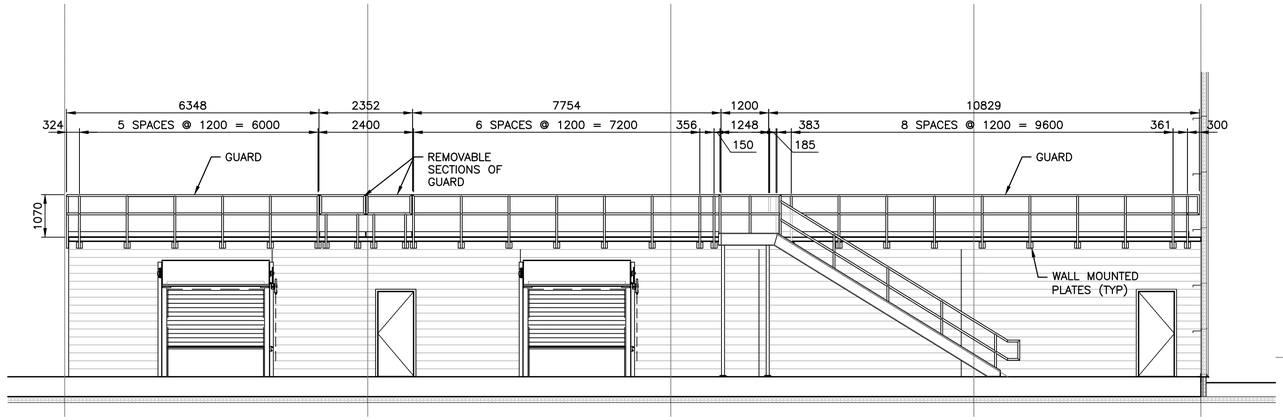
SECTION DETAILS

SHEET NO. WTS-A09

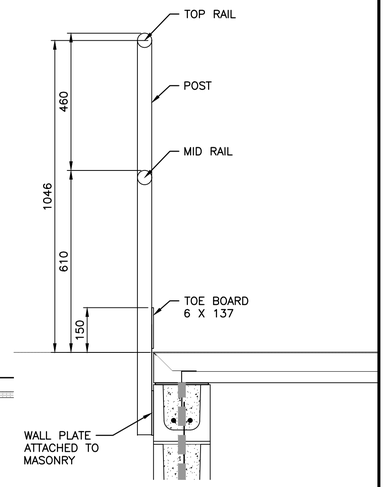
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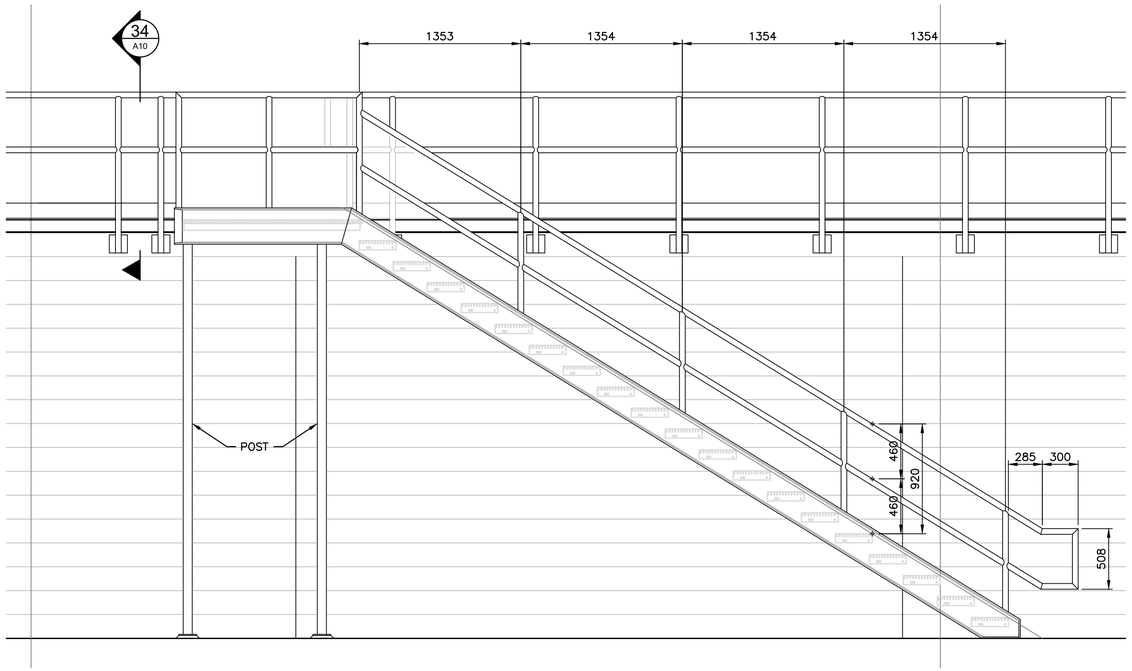
GUARD ELEVATION - WEST WALL
1:75



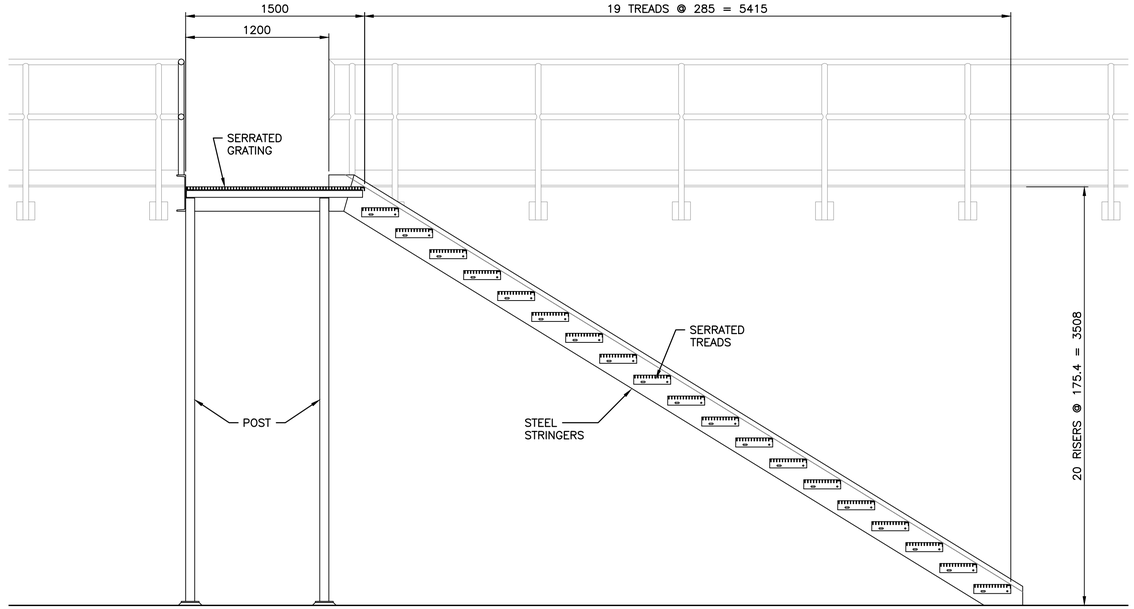
GUARD ELEVATION - SOUTH WALL
1:75



34 / A10 SECTION
1:10



STAIR HANDRAIL , GUARD ELEVATION
1:25



SECTION THROUGH STAIR
1:25

0.2 0 0.2 SCALE 1:10 METRES
0.5 0 0.5 SCALE 1:25 METRES
1.5 0 1.5 SCALE 1:75 METRES

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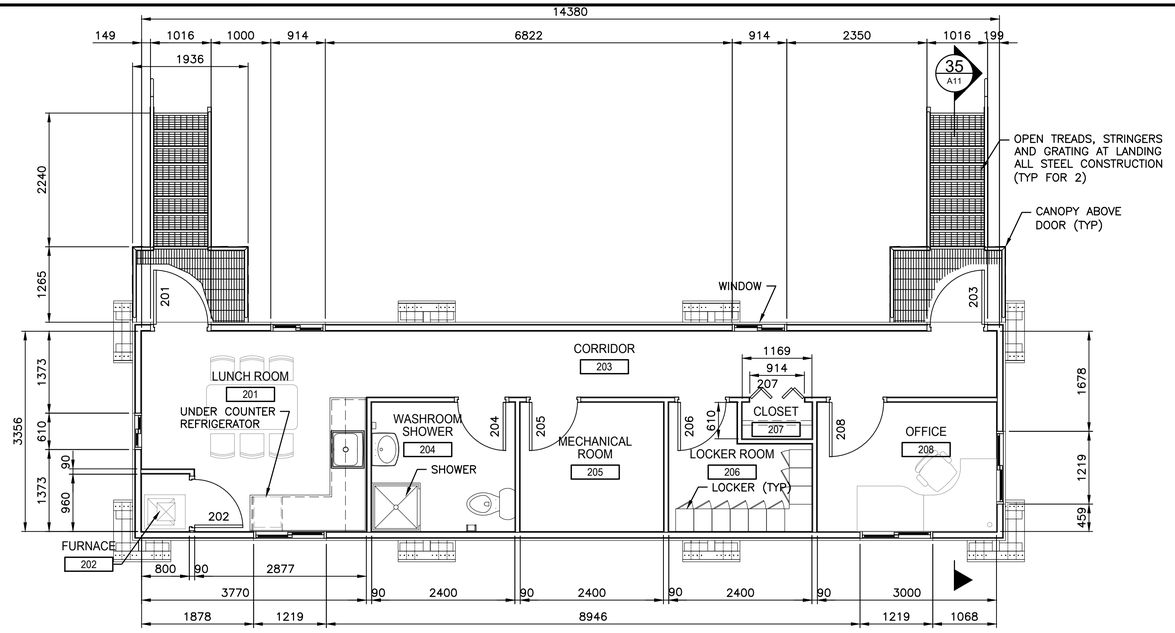
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MISCELLANEOUS METAL
ELEVATIONS, SECTION

SHEET NO. WTS-A10

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PRE-FABRICATED OFFICE FLOOR PLAN
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
201	201	EXT	LH	A	914	2134	45	HM	PT		F1	TBHM	PT			INSULATED DOOR AND FRAME	PKG 1
202	202	201	RH	A	813	2134	45	HM	PT		F1	HM	PT				PKG 2
203	203	EXT	RH	A	914	2134	45	HM	PT		F1	TBHM	PT			INSULATED DOOR AND FRAME	PKG 1
204	203	204	LH	WD	914	2134	45	HM	PT		F1	HM	PT				PKG 3
205	203	205	RH	WD	914	2134	45	HM	PT		F1	HM	PT				PKG 2
206	203	206	RH	WD	914	2134	45	HM	PT		F1	HM	PT				PKG 3
207	207	203	BI-FOLD	WD	914	2134	45	HM	PT							PAIR BI-FOLD DOORS	
208	203	208	RH	WD	914	2134	45	HM	PT		F1	HM	PT				PKG 2
301	201	EXT	LH	A	914	2134	45	HM	PT		F1	TBHM	PT				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

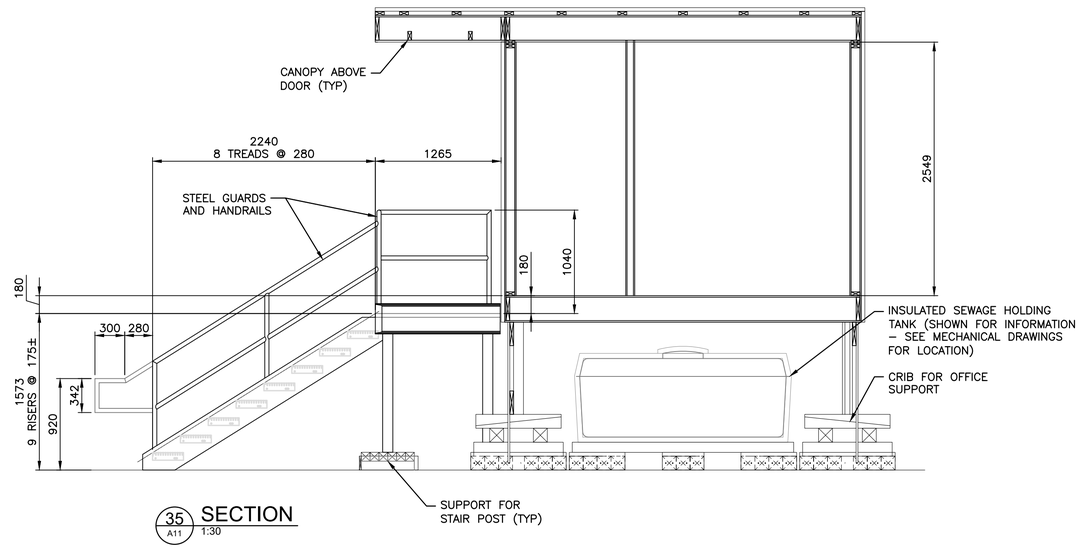
HARDWARE PACKAGE 3
- 3 HINGES
- 1 PRIVACY SET

ROOM FINISH SCHEDULE

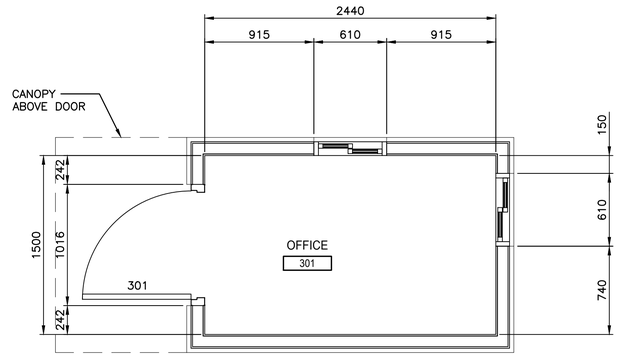
ROOM No.	NAME	FLOOR MATERIAL	FLOOR FINISH	BASE	WALLS MATERIAL	WALLS FINISH	CEILINGS MATERIAL	CEILINGS FINISH	CEILINGS HEIGHT	REMARKS
201	LUNCH ROOM	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
202	FURNACE	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
203	CORRIDOR	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
204	WASHROOM , SHOWER	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
205	MECHANICAL ROOM	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
206	LOCKER ROOM	WOOD	VT	RB	GWB	PNT	GWB	PT	–	
207	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	–	

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



35 A11 SECTION
1:30



PRE-FABRICATED SCALE HOUSE FLOOR PLAN
1:25

0.5 0 0.5 SCALE 1:25 METRES
1 0 1 SCALE 1:50 METRES

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DATE OCT 2019
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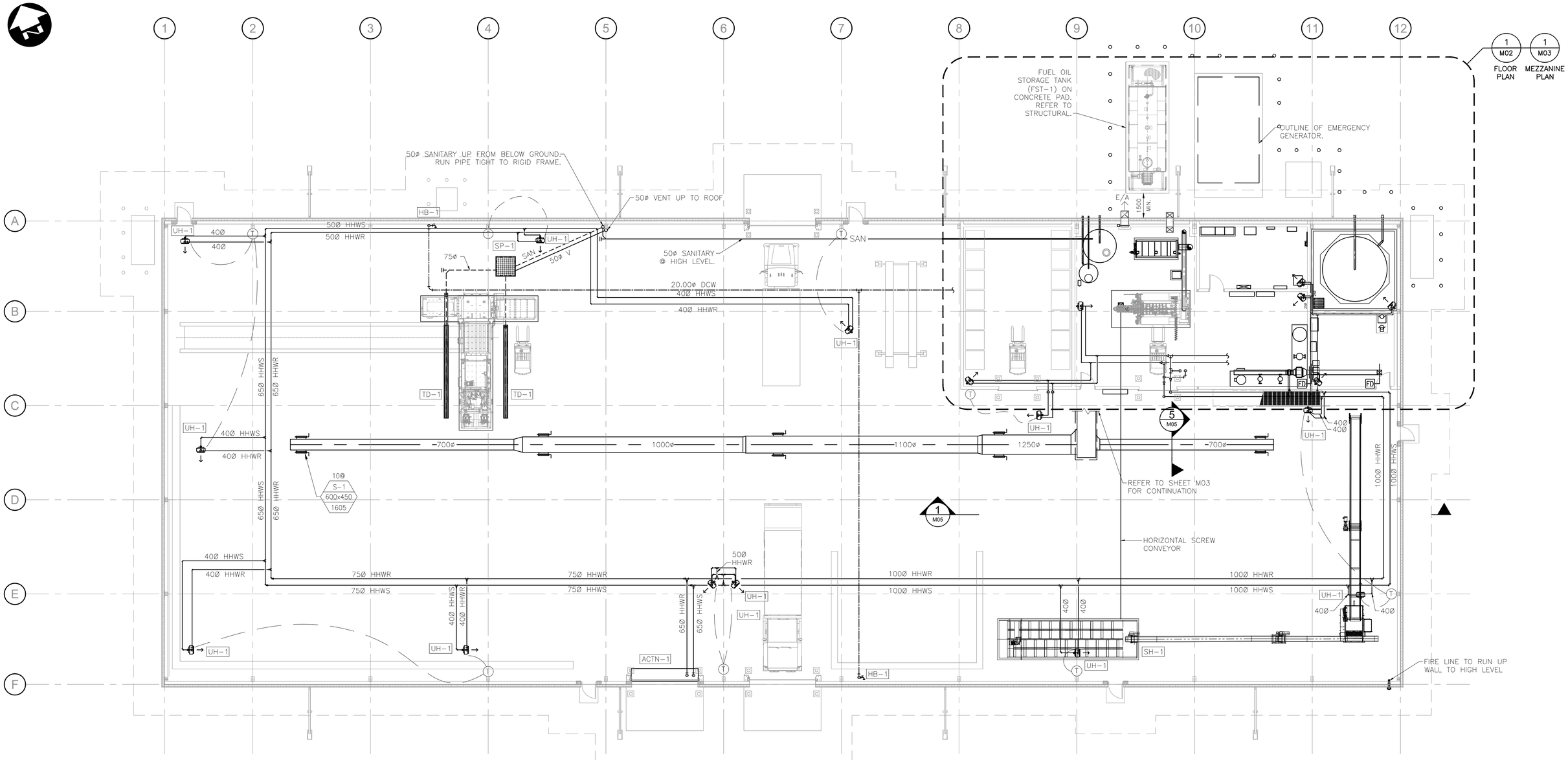
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PROJECT NO. 19-9543

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

SHEET NO. WTS-A11

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WASTE TRANSFER STATION - MECHANICAL LAYOUT

1:125

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REGISTERED PROFESSIONAL ENGINEER
P. D. TATAHYN
LICENSEE
NT/NU

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DRAWN: ERP | CHECKED BY: PA
DATE: OCT 2019
SCALE: NOTED

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PROJECT NO. 19-9543

MECHANICAL LAYOUT - PLUMBING, HVAC & FIRE PROTECTION

SHEET NO. WTS-M01

FILENAME: C:\PW_WORKING_DIRECTORY\PROJECTS_2019\402H\DMS1272#\199543-07-MECH-CONLDWG PLOTTED BY: LIU, ZHIHAO
PLOT DATE: 2020-10-30 @ 3:37:20 PM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB

8 9 10 11 12

A B C

FUEL OIL STORAGE TANK (FST-1) ON CONCRETE PAD. REFER TO STRUCTURAL.

OUTLINE OF EMERGENCY GENERATOR.

75ø SEWAGE PUMP-OUT

50ø NON-POTABLE WATER FILL

75ø OVERFLOW

WEATHERHOOD

E/A

450X350 COMBUSTION AIR INTAKE

DUCT BOTTOM 300mm AFF

1500 MIN.

500x450

MD-1

B-1 FLUE PIPE MATERIAL AND INSTALLATION SHALL MEET CSA B365-17 REQUIREMENTS.

FLUE PIPE UP THROUGH ROOF. CONFIRM EXACT SIZE WITH BOILER MANUFACTURER.

100ø NON-POTABLE WATER FILL

100ø OVERFLOW

50ø SANITARY @ HIGH LEVEL.

SEWAGE HOLDING TANK (HT-1)

FUEL OIL FIRED BOILER (B-2)

WATER STORAGE TANK (WST-1)

UH-2

WATER STORAGE TANK (WST-2)

DAY TANK (DT-01)

REFER TO SHEET M01 FOR CONTINUATION

20.00ø DCW

P-1

UH-3

B-1 CONTROL PANEL

HRU-1 CONTROL PANEL

250

250

250ø HHWR

250ø HHWS

600x600x300 SUMP PIT

FIRE PUMP (FP-1)

FP-1 CONTROL PANEL

JOCKEY PUMP (JP-1)

BIOMASS BOILER (B-1)

HORIZONTAL SCREW CONVEYOR FROM ABOVE (BY OTHERS)

ET-1

HOUSEKEEPING PAD FOR HYDRONIC HEATING SYSTEM COMPONENTS

S-1 500x250 409

JP-1 CONTROL PANEL

HWP-2

40ø HHWS

40ø HHWR

150ø HHWS

150ø HHWR

HC-1

HWP-1A

HWP-1B

320 HHWR

320 HHWS

300x300 FROM ABOVE

150ø HHWS/HHWR TA/FA

GMP-1

HB-1

SF-1

300x300

FD

UH-2

250ø HHWR

250ø HHWS

40ø

40ø

20.00ø DCW

100ø HHWS

100ø HHWR

SH-1 CONTROL PANEL

REFER TO SHEET M01 FOR CONTINUATION

REFER TO SHEET M01 FOR CONTINUATION

1 M02 LARGE SCALE BOILER ROOM LAYOUT
1:50

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CITY OF IQALUIT
WASTE TRANSFER STATION

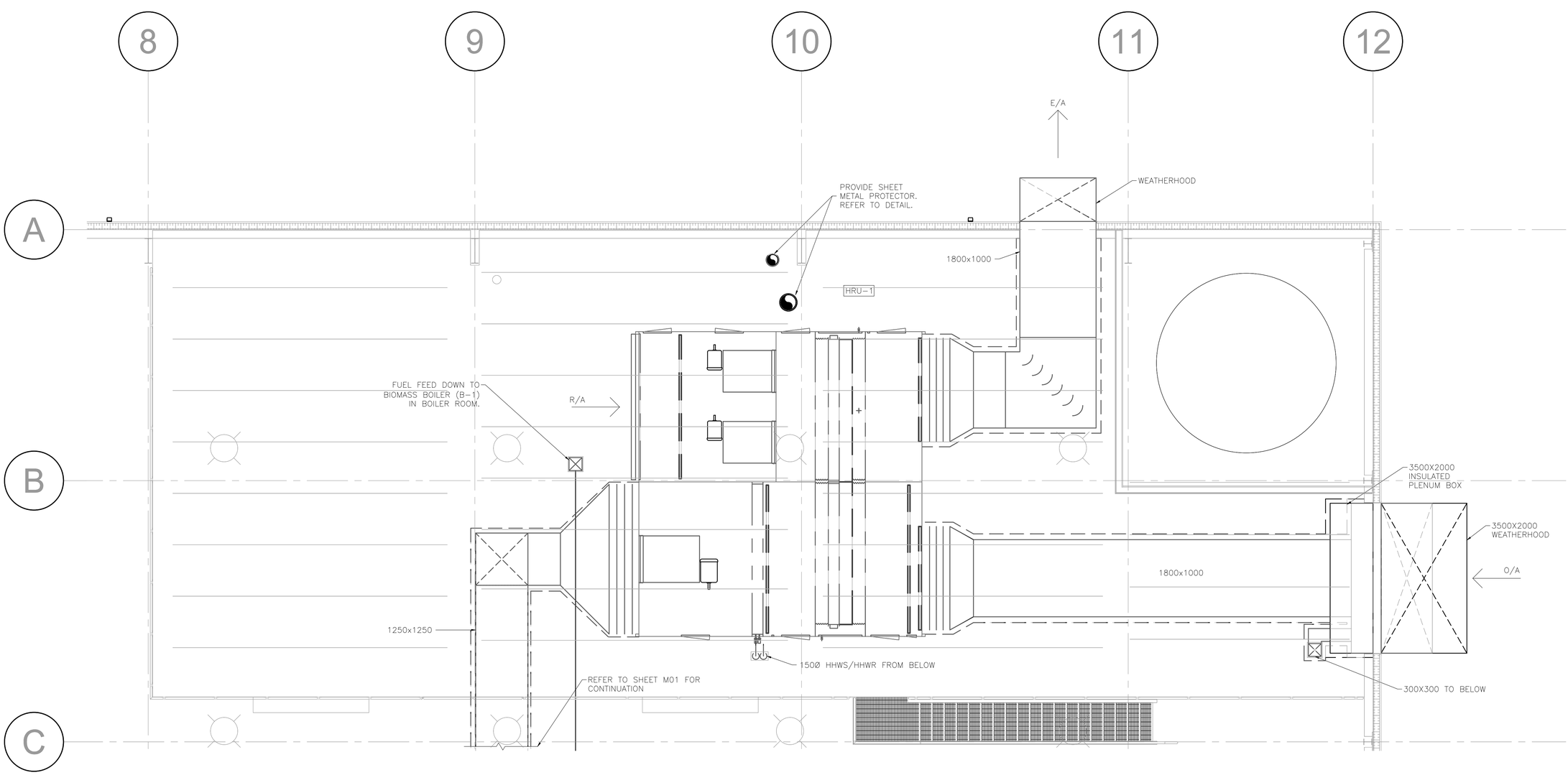
LARGE SCALE BOILER ROOM LAYOUT

PROJECT NO. 19-9543

SHEET NO. WTS-M02

WINNIPEG

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1 M03 WASTE TRANSFER STATION - MEZZANINE MECHANICAL LAYOUT
1:50

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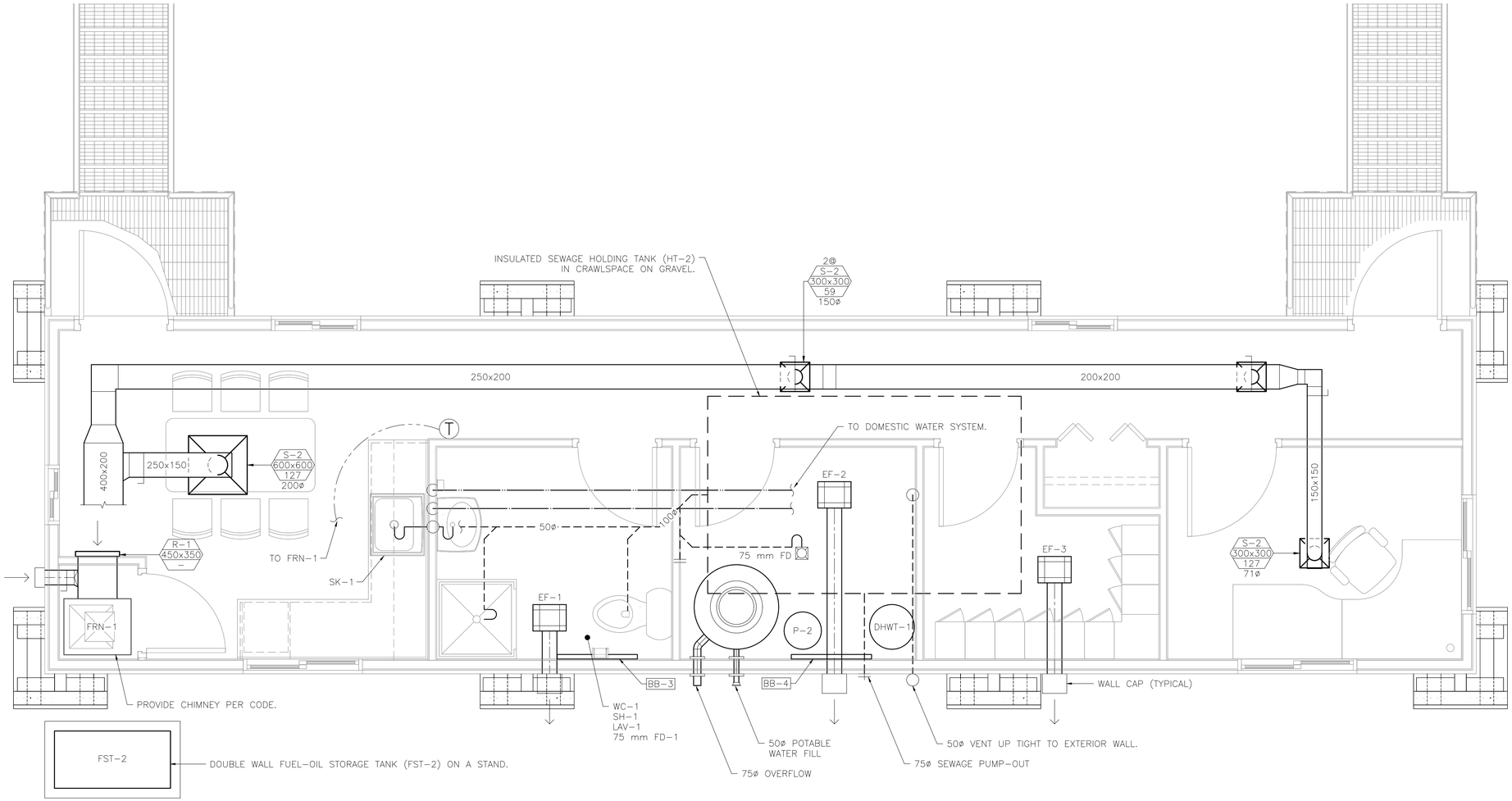
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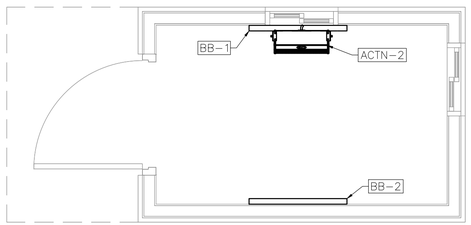
MECHANICAL LAYOUT - MEZZANINE PLAN

PROJECT NO. 19-9543

SHEET NO. WTS-M03



SITE OFFICE - MECHANICAL LAYOUT
1:25



SCALE HOUSE- MECHANICAL PLAN
1:25

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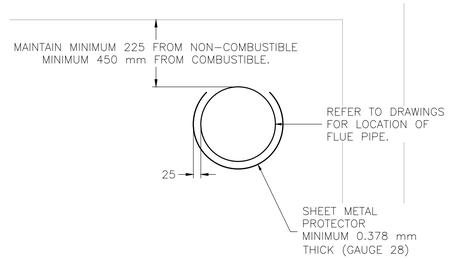
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WASTE TRANSFER STATION

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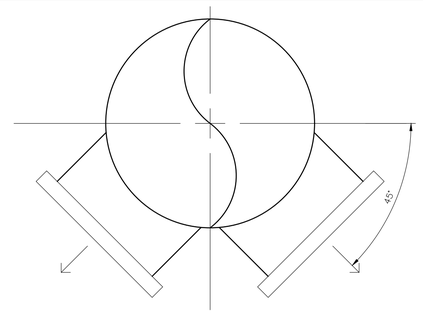
SITE OFFICE - MECHANICAL LAYOUT

SHEET NO. WTS-M04

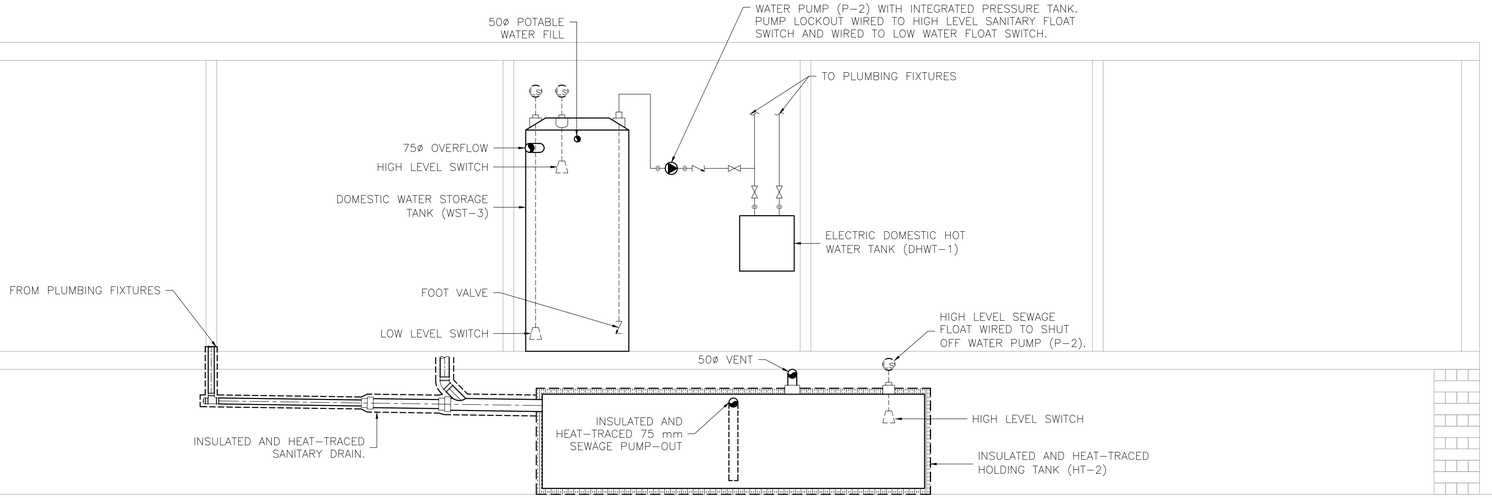
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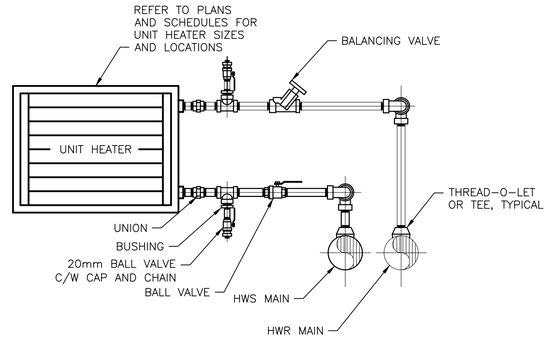
4 SHEET METAL PROTECTOR DETAIL
NTS



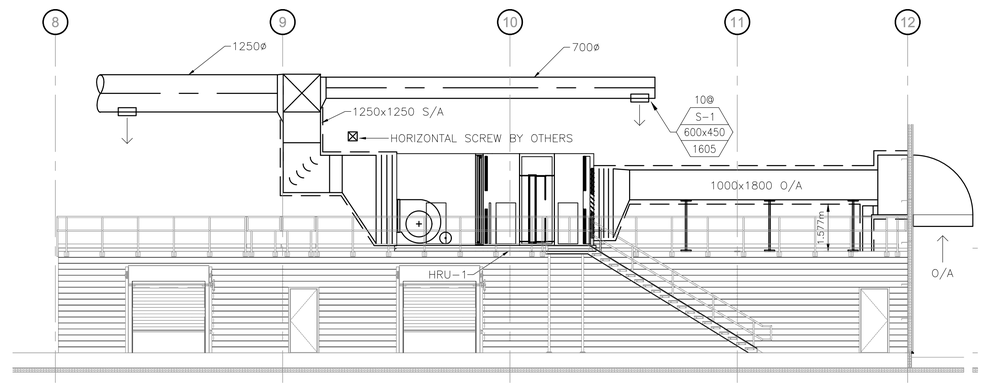
5 SUPPLY DIFFUSER SECTION (TYP)
NTS



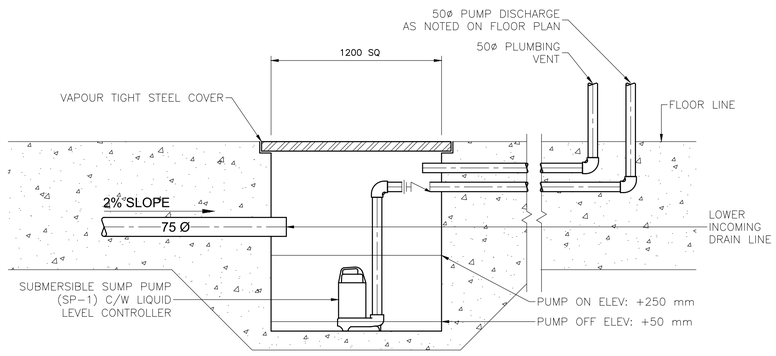
3 SITE OFFICE - WATER AND SEWAGE HOLDING TANK SCHEMATIC
1:100



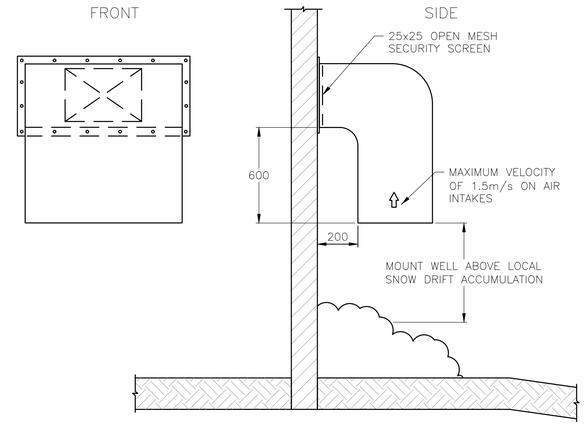
6 UNIT HEATER/FORCE FLOW PIPING DETAIL (TYP)
NTS



1 WASTE TRANSFER STATION HEATING UNIT SECTION
1:100



2 SUMP PUMP DETAIL
1:100



7 WHEATHER HOOD DETAIL (TYP)
NTS

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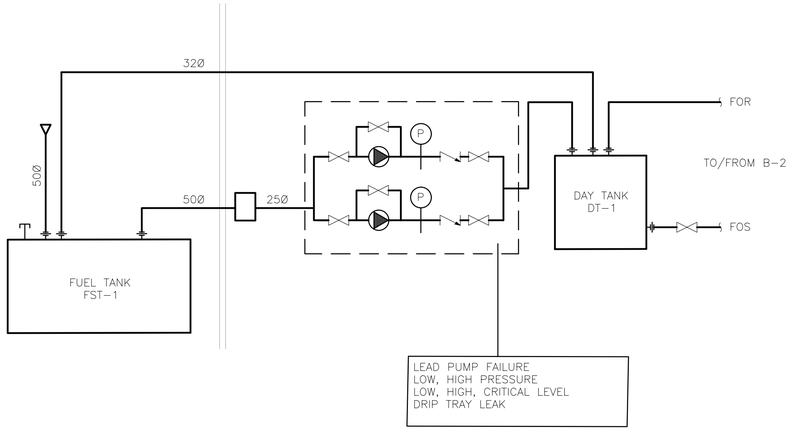
CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

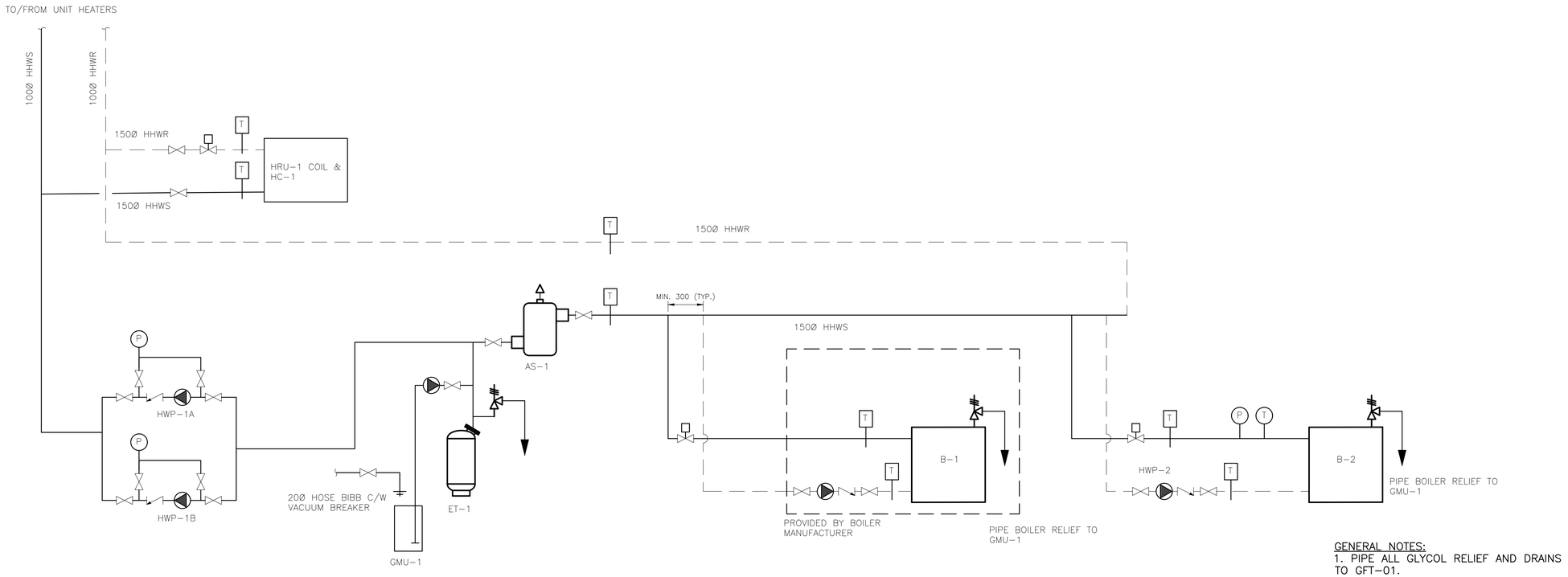
MECHANICAL SECTIONS & DETAILS

SHEET NO. WTS-M05

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FUEL OIL SCHEMATIC
N.T.S



GENERAL NOTES:
1. PIPE ALL GLYCOL RELIEF AND DRAINS TO GFT-01.

HEATING SYSTEM SCHEMATIC
N.T.S

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WASTE TRANSFER STATION

PROJECT NO. 19-9543

HYDRONIC HEATING SYSTEM - FLOW DIAGRAM

SHEET NO. **WTS-M06**

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HEAT RECOVERY UNIT

TAG	MANUFACTURER	MODEL	LOCATION	AREA SERVED	SUPPLY FAN							RETURN FAN							HEAT PIPE RECOVERY				HEATING COIL								FILTERS	ELECTRICAL DATA				OPERATING WEIGHT		NOTES
					AIRFLOW		TSP	ESP	MOTOR DATA		VFD	AIRFLOW		TSP	ESP	MOTOR DATA		VFD	EFF	SUPPLY EAT	SUPPLY LAT	EXHAUST EAT	TOTAL		QUANTITY	FLUID	EAT	LAT	EWT	LWT	FLOW	WATER PD.		V	PH	HZ	MCA		
					L/s	CFM	Pa	Pa	HP	kW		L/s	CFM	Pa	Pa	HP	kW		%	°C	°C	°C	kW	MBH			°C	°C	°C	°C	L/s	kPa					kg	lb	
HRU-1	ENGINEERED AIR	IDC20-1168A	MEZZ	PLANT AREA	16,048	34,000	872	374	30	22	YES	16,048	34,000	996	374	2-20	2-14.9	YES	46.9	-40	-32	10	412	1,410	2	P-GLYCOL 50%	-32.0	10.0	82.2	71.0	9.8	14.4	MERV 8	600	3	60	85.9	3,752	8,254	1,2,3

NOTES:
1. UNIT TO BE PROVIDED WITH SINGLE POINT ELECTRICAL CONNECTION FOR FAN MOTORS.
2. VFDs SHALLBE FACTORY MOUNTED ON UNITS.
3. PROVIDE WITH TAMCO DAMPERS.

DIFFUSER AND GRILLE SCHEDULE (Based on E.H. Price)

TAG	MODEL	COLOUR	NOTES
S-1	SERIES 720 LOUVERED FACE DOUBLE DEFLECTION	-	1
S-2	SCD SQUARE CONE DIFFUSER	B12	2
R-1	SERIES 535 LOUVERED FACE 45° DEFLECTION	B12	2

NOTES:
1. PROVIDE WITH FACE MOUNTED DAMPER.
2. SURFACE MOUNT.
3. REFER TO DRAWING FOR FACE SIZE.

GLYCOL MAKEUP PACKAGE SCHEDULE

TAG	MANUFACTURER	MODEL	LOCATION	APPLICATION	TANK SIZE		PUMP	PUMP MOTOR				NOTES
					L	gal		hp	V	PH	HZ	
GMP-1	XYLEM	GMU-30	MECH ROOM	GYLCOL	208	55	10 GPM, 30 PSI	0.50	120	1	60	1

NOTES:
1. CONTROL WITH LOW LEVEL CUTOUT.

DAY TANK SCHEDULE

TAG	MANUFACTURER	MODEL	LOCATION	APPLICATION	CAPACITY		PUMP	PUMP MOTOR				WEIGHT	NOTES
					L	gal		hp	V	PH	HZ	kg	
DT-1	SIMPLEX	STS 75	MECH ROOM	FUEL OIL	284	75	DUPLEX PUMP SET, 5 GPM	0.33	120	1	60	245	1,2

NOTES:
1. DOUBLE WALL CONSTRUCTION WITH LEAK SENSOR
2. PROVIDE STANDARD CONTROL PANEL WITH LEVEL CONTROLLER, HIGH/LOW LEVEL ALARMS, DUPLEX PUMP CONTROLLER.

OIL-FIRED FURNACE SCHEDULE

TAG	MANUFACTURER	MODEL	HEATING INPUT		HEATING OUTPUT		ELECTRICAL				AFUE (%)	NOTES
							MOTOR		VOLTAGE / PH			
			kW	MBH	Kw	MBH	kW	hp				
FRN-1	OLSEN	M5SB	19.3	66.0	16.4	56.0	0.373	0.5	120	1	80	1,2

NOTES:
1. UPFLOW SUPPLY, SIDE RETURN
2. PROVIDE WITH VENT AND MERV 8 FILTER.

AIR CURTAIN SCHEDULE

TAG	MANUFACTURER	MODEL	NOZZLE FLOW RATE		HEATING COIL							MOTOR		ELECTRICAL		WEIGHT		NOTES
					OUTPUT		EWT	LWT	FLOWRATE		ΔP							
			L/s	CFM	kW	MBH	°C	°C	gpm	LPM	kPa	kW	HP	V	PH	(kg)	(lb.)	
ACTN-1	BERNER	IDC20-1168A	10,714	22,700	244	832	82	69	69	261	75	11.2	15	600	3	466	1,025	1,2

NOTES:
1. Confirm mounting height on site.
2. Air curtains to be provided with stand alone controls. Wall mounted controller c/w door switch and wiring to be installed by contractor.

AIR CURTAIN ELECTRIC SCHEDULE

TAG	MANUFACTURER	MODEL	NOZZLE FLOW RATE		ELECTRIC HEATING			MOTOR		ELECTRICAL		WEIGHT		NOTES
					OUTPUT		AIR TEMP RISE							
			L/s	CFM	kW	MBH	°C	kW	HP	V	PH	(Kg)	(lb.)	
ACTN-2	BERNER	DTU03-1018E	64	135	1.7	5.8	22	0.08	0.11	120	1	5	10	1,2

NOTES:
1. Confirm mounting height on site.
2. Air curtains to be provided with stand alone controls. Wall mounted controller c/w door switch and wiring to be installed by contractor.

FAN SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	SERVICE	LOCATION	AREA SERVED	AIR FLOW		E.S.P.		MOTOR					WEIGHT	NOTES
							L/s	CFM	Pa	in.WC	W	HP	V	PH	DRIVE TYPE		
EF-1, 2 & 3	GREENHECK	SP-A50	CEILING	EXHAUST	SITE OFFICE	-	33	70	31	0.125		25	115	1	DIRECT		1
SF-1	GREENHECK	CSP-A1050-VG	INLINE	SUPPLY	MECH ROOM	MECH ROOM	409	866	125	0.5	209		115	1	DIRECT	22	

NOTES:
1. PROVIDE WITH INLET GRILLE.

HOT WATER BOILER SCHEDULE

TAG	MANUFACTURER	MODEL	HEATING PERFORMANCE					HOT WATER				DESIGN PRESSURE	BURNER CONFIGURATION	ELECTRICAL DATA			DIMENSIONS WEIGHT	
			ENERGY TYPE	INPUT		OUTPUT		MIN. EFF.	FLUID SYSTEM	MIN. FLOW	EWT	LWT						
				(kW)	(MBH)	(kW)	(MBH)	%		L/s			kPa		V	PH	HZ	(kg)	(lb)
B-1	LINKA	H-BOILER	BIOMASS	-	-	800	2,728	80	P-GLYCOL 50%	-	160	180	400	SINGLE STAGE	480	3	60	5,955	13,100
B-2	WEIL-MCLAIN	1388	FUEL OIL	1,171	3,995	1,003	3,422	86	P-GLYCOL 50%	6.40	160	180	689	2 STAGE	208	3	60	6,358	14,004

NOTES:
1. PROVIDE COMPLETE BOILER SYSTEM INCLUDING CRN, CONTROLS, SHUNT PUMP, AUGER.
2. PROVIDE LOW WATER CUTOFF, HIGH TEMP, NO FLOW, HIGH/LOW PRESSURE GAS ALARMS.

UNIT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	QUANTITY	HEATING OUTPUT		AIR SIDE								FLUID SIDE								ELECTRICAL		NOTES
						FLOW RATE		FAN MOTOR			ENT. TEMP.		LVG. TEMP.		FLOW RATE		PRESS. DROP	ENT. TEMP.		LVG. TEMP.				
				kW	MBH	L/s	CFM	W	HP	RPM	°C	°F	°C	°F	L/s	gpm	Pa	ftH2O	°C	°F	°C	°F	V	PH	
UH-1	REZNOR	WS 78/110	12	40.4	138.0	1,345	2,850	67	0.09	1,080	4.4	40.0	36.7	98.0	0.92	14.5	10.4	3.5	82.2	180.0	71.1	160.0	120	1	1,2
UH-2	REZNOR	WS 44/62	3	10.3	35.0	406	860	60	0.08	1,600	4.4	40.0	36.7	98.0	0.23	3.7	0.4	0.15	82.2	180.0	71.1	160.0	120	1	1,2
UH-3	REZNOR	WS 23/33	3	5.6	19.0	236	500	37	0.05	1,600	4.4	40.0	36.7	98.0	0.13	2.0	0.1	0.04	82.2	180.0	71.1	160.0	120	1	1,2

NOTES:
1. Working fluid: 50% propylene glycol, 50% water.
2. Set thermostat to 10°C.

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	SAN	TRAP	DCW	DHW	VENT
WC-1	WATER CLOSET: EQUAL TO CRANE MODEL 38355 C/S 1.28 gpf HIGH EFFICIENCY FLUSH TANK. SEAT EQUAL TO CRANE MODEL 8080. PROVIDE 15 mm FLEX ANGLE WITH HAND/WHEEL STOPS AND ESCUTCHEON.	75	N/A	13	N/A	N/A
LAV-1	BASIN: EQUAL TO AMERICAN STANDARD MODEL 0356.015. FAUCET EQUAL TO AMERICAN STANDARD MODEL 6502.170 C/W V05 0.5 gpm PRESSURE COMPENSATING VANDAL RESISTANT SPRAY. CAST BRASS 32 mm OFFSET WASTE WITH OPEN GRID STRAINER AND ADJUSTABLE P-TRAP. TRUEBRO WITH VINYL INSULATED PIPE COVER ON DRAIN PIPING.	32	32	13	13	32
SK-1	BASIN: EQUAL TO KINDRED MODEL QSL 1719/8/1 BASKET STRAINER WASTE FITTING. FAUCET EQUAL TO KINDRED MODEL KFPD1150 C/W 2.2 gpm WATER SAVER. SYMMONS 4-10B MEMCHANICAL MIXING VALVE. CAST BRASS 32 mm ADJUSTABLE P-TRAP WITH CLEANOUT. PROVIDE 15 mm BALL VALVE STOPS AND ESCUTCHEONS.	32	32	13	13	32
SH-1	CABINET: EQUAL TO STERN WILLIAMS SC SERIES #SC-32-VBO-L SHOWER CABINET, GROUND AND POLISHED ONE PIECE PRECAST TERRAZO, SQUARE, OVERALL DIMENSIONS OF 813 mm X 813 mm X 2083 mm, CENTER DRAIN. SHOWER KIT: AMERICAN STANDARD BERWICK #TU430501.002 PRESSURE BALANCING COMPLETE SHOWER KIT, POLISHED CHROME FINISH, CONSISTING OF: 184 mm DIA METAL WALL TRIM FACEPLATE WITH ON/OFF AND TEMPERATURE CONTROL SINGLE LEVER HANDLE. 173 mm DIA RAIN SHOWERHEAD WITH BALL JOINT, 9.5 Lpm MAX FLOW RATE, PRESSURE COMPENSATING FLOW CONTROL. AMERICAN STANDARD #RU101 PRESSURE BALANCE IN-WALL SHOWER ROUGH VALVE, CAST BRASS BODY, 13 mm UNIVERSAL INLET(S)/OUTLET(S), CERAMIC DISC VALVE CARTRIDGES, INTEGRAL HOT WATER LIMIT STOP, NO SCREW DRIVER STOPS, BACK-TO-BACK CAPABILITY.	38	N/A	13	13	NA
HB-1	WATTS SC8	N/A	N/A	20	N/A	N/A
FD-1	EQUAL TO ZURN MODEL #Z-221-VP 75 mm.	75	75	N/A	N/A	N/A
TD-1	TRENCH DRAIN - 200 mm WIDE TRENCH SYSTEM	75	75	N/A	N/A	38

STORAGE TANK SCHEDULE

TAG	MANUFACTURER	MODEL	APPLICATION	LOCATION	DESCRIPTION	NOTES
HT-1	ACO	DMT-900	Sewage Storage	Boiler Room (WTS)	4500 Litres, 2125 mm dia x 1850 mm H, HDPE double wall sewage storage tank.	
HT-2	EQUINOX	LPT-1000	Sewage Storage	Crawlspace (Site Office)	4500 Litres, 2016 mm L x 3204 mm W x 789 mm H, Fiberglass low profile sewage storage tank.	1, 2
WST-1	NORWESCO	43825	Non-potable Water Storage (Fire Suppression)	Fire Pump Room (WTS)	75000 Litres, 4191 mm dia x 6147 mm H, Polyethylene construction vertical storage tank.	
WST-2	CANWEST	RK600	Non-potable Water Storage	Boiler Room (WTS)	2300 Litres, 1292 mm dia x 2286 mm H, HDLPE non-potable water storage tank.	
WST-3	CANWEST	RK400	Potable Water Storage	Mechanical Room (Site Office)	1800 Litres, 1448 mm dia x 1397 mm H, HDLPE non-potable water storage tank.	
FST-1	WESTEEL	HFV25000	Fuel Oil Storage	Outdoor (WTS)	24295 Litres, 2375 mm dia x 5484 mm L, dual wall all steel construction fuel oil storage tank.	3
FST-2	WESTEEL	FOSC465	Fuel Oil Storage	Outdoor (Site Office)	465 Litres, 915 mm L x 585 mm W x 1185 H mm, double wall all steel construction fuel oil storage tank.	4

NOTES:

1. Complete with factory install 100 mm (4") pump-out suction line.
2. Spray foam with minimum R20.
3. Complete with heavy duty skid.
4. Install on a structural stand.

DOMESTIC WATER HEATING EQUIPMENT SCHEDULE

TAG	MANUFACTURER	MODEL	LOCATION	TYPE	INPUT	CAPACITY		ELECTRICAL			WEIGHT		NOTES
					kW	L	gal	V	PH	HZ	kg	lb	
DHWT-1	A.O. SMITH	DEL-10	MECH ROOM - SITE OFFICE	ELECTRIC, STORAGE	3.0	38	10	120	1	60	25	54	

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CITY OF IQALUIT
WASTE TRANSFER STATION

MECHANICAL SCHEDULES

PROJECT NO. 19-9543

SHEET NO. WTS-M07

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\402H\DMS\72281\19543-07-MECH-CONLDWG PLOTTED BY: LIU, ZHIHAO
PLOT DATE: 2020-10-30 @ 3:38:24 PM PLOT STYLE: DILLON-STANDARD.CTB PLOT SCALE: 1:25.4
WINNIPEG

FIRE PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	LOCATION	SERVICE	FLOW RATE		HEAD		MOTOR						WEIGHT	NOTES
					L/s	gpm	kPa	ft.WC	kW	hp	V	PH	HZ	RPM	kg	
FP-1	PEERLESS	5PVF7M	FIRE PUMP RM	FIRE PUMP	25.24	400	552	185	29.84	40	575	3	60	3520	228	1
JP-1	GRUNDFOS	CR 1S-11	FIRE PUMP RM	JOCKEY PUMP	0.16	2.49	815	273	0.56	0.75	208	1	60	3439	26	2

NOTES:
1. PACKAGE COMPLETE FULL SERVICE REDUCED VOLTAGE AUTOTRANSFORMER FIRE PUMP CONTROLLER AND AUTOMATIC POWER TRANSFER SWITCH.
2. PACKAGE COMPLETE WITH JOCKEY PUMP CONTROLLER.

HYDRONIC PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	SERVICE	FLUID SYSTEM	FLOW RATE		HEAD		EFF. AT DUTY	NPSH	MOTOR								WEIGHT	NOTES
					L/s	gpm	kPa	ft.WC	%	ft	kW	HP	BHP	V	PH	HZ	SPEED CONTROL	RPM	kg	
HWP-1a	BELL & GOSSETT	e-80	HEATING WATER SECONDARY	50% PROPYLENE GLYCOL	40.1	636	164	55	79.8	7.29	11.2	15	11.3	575	3	60	YES	1656	184	
HWP-1b	BELL & GOSSETT	e-80	HEATING WATER SECONDARY	50% PROPYLENE GLYCOL	40.1	636	164	55	79.8	7.29	11.2	15	11.3	575	3	60	YES	1656	184	
HWP-2	BELL & GOSSETT	e-80	HEATING WATER PRIMARY	50% PROPYLENE GLYCOL	22.4	356	45	15	80.3	3.96	1.49	2	1.84	575	3	60	NO	1150	125	

PLUMBING PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	FLOW RATE		HEAD		MOTOR					WEIGHT	NOTES
						L/s	gpm	kPa	PSI	kW	HP	V	PH	HZ	kg	
P-1	GRUNDFOS	MQ 3-35	MECH ROOM	DOMESTIC WATER	BOOSTER	0.50	8.00	220	32	0.59	0.75	115.00	1.00	60.00	13.7	1
P-2	GRUNDFOS	MQ 3-35	SITE OFFICE	DOMESTIC WATER	BOOSTER	0.50	8.00	220	32	0.59	0.75	115.00	1.00	60.00	13.7	1

NOTES:
1. PACKAGED SYSTEM C/W CONTROL PANEL, PRESSURE TRANSMITTER, EXPANSION TANK

SUMP PUMP SCHEDULE

TAG	MAUFACTURER	MODEL	LOCATION	SERVICE	TYPE	MAX FLOW RATE		HEAD		MOTOR						WEIGHT	NOTES
						L/s	gpm	kPa	ft.WC	kW	HP	RPM	V	PH	HZ	kg	
SP-1	ABS	EF 05W	PLANT AREA	SANITARY	SUBMERSIBLE	5.6	88.0	149	50	0.37	0.50	3,450.00	115	1	60	16.3	1

NOTES:
1. DUPLEX PUMP SET C/W FLOAT CONTROLS, GUIDE RAILS, CONTROL PANEL.

ELECTRIC BASEBOARD HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	LOCATION	HEATING OUTPUT	ELECTRICAL			NOTES
				W	V	Hz	PH	
BB-1	OUELLET	OFM0502	SCALE HOUSE	500	120	60	1	1
BB-2	OUELLET	OFM0502	SCALE HOUSE	500	120	60	1	1
BB-3	OUELLET	OFM0752	SCALE HOUSE	750	120	60	1	1
BB-4	OUELLET	OFM0752	SCALE HOUSE	750	120	60	1	1

NOTES:
1. PROVIDE WITH BUILT-IN ELECTRONIC THMOSTAT

HEATING COIL SCHEDULE

TAG	MANUFACTURER	HEATING OUTPUT		AIR SIDE						FLUID SIDE								NOTES
				FLOW RATE		ENT. TEMP.		LVG. TEMP.		FLOW RATE		PRESS. DROP		ENT. TEMP.		LVG. TEMP.		
		kW	MBH	L/s	CFM	°C	°F	°C	°F	L/s	gpm	Pa	ftH2O	°C	°F	°C	°F	
HC-1	GREENHECK	11.7	40.0	409	867	-40.0	-40.0	10.0	50.0	0.28	4.4	10.4	3.5	82.2	180.0	71.1	160.0	1

NOTES:
1. Working fluid: 50% propylene glycol, 50% water.

SEQUENCE OF OPERATIONS:

BUILDING VENTILATION:

1. SYSTEMS: HRU–1 – FACTORY WIRED AND INTERNALLY CONTROLLED. HARD WIRED SAFETIES TO BE ENABLED AT ALL TIMES. UNIT TO BE PROVIDED WITH VFDS.
2. FAN SPEED: HRU–1 TO RUN CONTINUOUSLY AT LOW SPEED IN OCCUPIED MODE. NOX AND CO DETECTORS ENABLE HRU–1 TO RUN AT HIGH SPEED WHEN HIGH LEVELS OF NOX AND/OR CO ARE DETECTED IN THE SPACE. HRU–1 TO RUN AT HIGH SPEED UNTIL NOX AND/OR CO LEVELS DROP BELOW INDICATED VALUES FOR A MINIMUM OF 5 MINUTES (ADJ.)
   - LOW SPEED
   - HIGH SPEED:
   - HIGH NOX: 0.7 PPM
   - HIGH CO: 25 PPM
3. SUPPLY AIR TEMPERATURE: UNIT CONTROLLER TO MODULATE HEAT PIPE AND HEATING COIL CONTROL VALVE TO MAINTAIN SUPPLY AIR TEMPERATURE AT 10°C (ADJ.) DURING HEATING SEASON.
4. FILTERS: UNIT CONTROLLER TO MONITOR PRESSURE DROP ACROSS FILTERS AND PROVIDE MAINTENANCE ALARM ON INDICATION OF A FILTER CHANGE SITUATION.
5. ALARMS: SUPPLY AIR TEMPERATURE OUT OF RANGE: –2°C (ADJ.)

GAS DETECTION SYSTEM:

1. GAS DETECTION SYSTEM TO BE ENABLED 24/7.
2. GAS DETECTION SYSTEM TO PROVIDE THREE LEVELS OF ALARM. AT LEVEL 1, HRU–1 TO RUN AT HIGH SPEED AND PROVIDE VISUAL ALARM. AT LEVELS 2 AND 3, GAS DETECTION SYSTEM TO PROVIDE VISUAL AND AUDIBLE ALARM.

BOILER ROOM VENTILATION:

1. SYSTEMS: SUPPLY FAN, SF–1.
2. NORMAL OPERATION: SUPPLY FAN RUNS CONTINUOUSLY WHEN B–1 IS OPERATING. SYSTEM START IS INITIATED ON DEMAND BY SPACE TEMPERATURE SENSOR OR SIGNAL FROM B–1 BOILER CONTROL PANEL. UPON SIGNAL TO START OUTDOOR AIR DAMPER AND EXHAUST AIR DAMPERS ARE OPEN. OPEN LIMIT POSITION SWITCH HARD–WIRED TO SUPPLY FAN STARTER ENABLES SUPPLY FAN SF–1 TO START WHEN DAMPER IS FULLY OPEN. HEATING COIL HC–1 MODULATES TO MAINTAIN 10°C (ADJ.) IN HEATING SEASON. UPON SIGNAL TO STOP, SF–1 STOPS, OUTDOOR AIR AND EXHAUST AIR DAMPERS CLOSE.

BUILDING HOT WATER HEATING SYSTEM:

1. SYSTEMS:
   - BIOMASS BOILER B–1 C/W OEM CONTROL PANEL
   - OIL FIRED BOILER B–2
   - SECONDARY HEATING WATER PUMPS HWP–1A AND HWP–1B
   - PRIMARY HEATING WATER PUMP HWP–2
2. SYSTEM START: SYSTEM START IS INITIATED AT START OF HEATING SEASON BY OPERATOR COMMAND AT B–1 CONTROL PANEL. UPON SIGNAL TO START, PRIMARY HOT WATER HEATING PUMP STARTS, BOILER ISOLATE VALVE OPENS AND BOILER IS ENABLED. BOILER OEM CONTROLLER PREVENTS OPERATION OF BOILER UNTIL WATER FLOW IS PROVEN.

   OPERATOR SELECTS INITIAL LEAD SECONDARY HEATING PUMP. UPON SIGNAL TO START SCHEDULED, LEAD SECONDARY PUMP VARIABLE SPEED DRIVE IS ENABLED AND PUMP STARTS. DRIVE IS HELD AT MINIMUM SPEED FOR A TIME DELAY FOR 60S THEN RAMPED UP TO NORMAL SPEED.
3. HEATING SEASON OPERATION: THE LEAD BOILER B–1 SHALL BE CONTROLLED BY THE BOILER CONTROL PANEL TO MAINTAIN THE HOT WATER SUPPLY TEMPERATURE SETPOINT:

OUTSIDE AIR TEMPERATURE	HOT WATER SUPPLY TEMPERATURE
–40 °C	82 °C
10 °C	38 °C

   ON A FURTHER CALL FOR HEATING WITH THE HOT WATER SUPPLY TEMPERATURE BELOW SETPOINT BY 2°C FOR MORE THAN 10 MINUTES (ADJ.), THE SECOND BOILER B–2 SHALL BE ENABLED THROUGH THE BOILER CONTROL PANEL. UPON SIGNAL TO START, B–2 PRIMARY HOT WATER HEATING PUMP STARTS, BOILER ISOLATE VALVE OPENS AND BOILER IS ENABLED. BOILER OEM CONTROLLER PREVENTS OPERATION OF BOILER UNTIL WATER FLOW IS PROVEN.

   WITH BOTH BOILERS OPERATING, WHEN THE HOT WATER RETURN TEMPERATURE IS A MAXIMUM OF 6°C (ADJ.) LOWER THAN THE SUPPLY TEMPERATURE SETPOINT FOR MORE THAN 10 MINUTES (ADJ.), B–2 IS DISABLED AND THE PRIMARY HEATING PUMP HWP–2 STOPS.

   CONTINUOUS OPERATION OF ONE SCHEDULED SECONDARY HOT WATER PUMP. PUMPS OPERATE AS RUN AND STANDBY. BOILER CONTROL PANEL ROTATES OPERATION OF PUMPS ON A WEEKLY BASIS. DIFFERENTIAL PRESSURE SENSOR RESETS PUMP SPEED THROUGH PUMP VARIABLE SPEED DRIVE CONTROLLER TO MAINTAIN SETPOINT VALUE (FIELD DETERMINED). ON A PUMP FAILURE AS INDICATED FROM PUMP CURRENT SENSOR, LEAD PUMP STOPS AND STANDBY PUMP STARTS.

   HEATING SEASON: NOVEMBER THROUGH APRIL (ADJ.)
4. SHOULDER SEASON OPERATION: THE LEAD BOILER B–2 SHALL BE CONTROLLED BY THE BOILER CONTROL PANEL TO MAINTAIN THE HOT WATER SUPPLY TEMPERATURE SETPOINT. B–1 IS DISABLED.

OUTSIDE AIR TEMPERATURE	HOT WATER SUPPLY TEMPERATURE
–40 °C	82 °C
10 °C	38 °C

   CONTINUOUS OPERATION OF ONE SCHEDULED SECONDARY HOT WATER PUMP. PUMPS OPERATE AS RUN AND STANDBY. BOILER CONTROL PANEL ROTATES OPERATION OF PUMPS ON A WEEKLY BASIS. DIFFERENTIAL PRESSURE SENSOR RESETS PUMP SPEED THROUGH PUMP VARIABLE SPEED DRIVE CONTROLLER TO MAINTAIN SETPOINT VALUE (FIELD DETERMINED). ON A PUMP FAILURE AS INDICATED FROM PUMP CURRENT SENSOR, LEAD PUMP STOPS AND STANDBY PUMP STARTS.

   SHOULDER SEASON: MAY THROUGH OCTOBER (ADJ.)

Conditions of Use

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REGISTERED PROFESSIONAL ENGINEER P. D. TATARYN LICENSEE NT/NU

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DESIGN: PA | REVIEWED BY: PDT
DRAWN: ERP | CHECKED BY: PA
DATE: OCT 2019
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

MECHANICAL SCHEDULES

PROJECT NO. 19-9543

SHEET NO. WTS-M08

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\402HL\DMS12728\199543-07-MECH-CON.DWG PLOTTED BY: LIU, ZIHHAO
PLOT DATE: 2020-10-30 @ 3:38:28 PM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB
WINNIPEG

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 53 MM HDPE CONDUIT FROM THE ATS AND THE PUMP CONTROLLER TO THE GENERATOR ENCLOSURE FOR CONTROL WIRING.
3. PROVIDE BRANCH CIRCUIT CABLE FOR GENERATOR ENCLOSURE POWER PANEL SUPPLY.

3 - 3m X 20mm Ø COPPER CLAD GROUND RODS WITH #4/0 AWG BARE CU GROUND CABLE AND CONNECTION TO CSTE AND GROUND BUS

PADMOUNT TRANSFORMER

EMERGENCY GENERATOR

FUEL TANK

CONSTRUCTION NOTE 2

ELECTRICAL ROOM

WASTE TRANSFER STATION

POWER CABLE AND FIBRE OPTIC (12 STRAND, MULTIMODE FIBRE) IN 53mm HDPE IN TRENCH

MISC. METALS/WHITE GOODS STORAGE PAD

10.0m

B-17

14C, #12 AWG IN 53 HDPE

B-1,3

B-5,7

B-9,11

B-13,15

GREENHOUSE (FUTURE)

REFER TO STRUCTURAL DRAWINGS FOR LIGHT POLE BASE (TYP. OF 2)

TRAFFIC SIGNALS

53mm HDPE CONDUIT FOR SCALE LOADCELL CABLES

2C #10 AWG TECK IN TRENCH

SCALE HOUSE

SITE OFFICE

POWER CABLE IN TRENCH

FIBRE OPTIC CABLE (12 STRAND MULTIMODE FIBRE) IN 53mm HDPE IN TRENCH

RADIATION DETECTORS

53mm HDPE CONDUITS C/W POWER AND CONTROL CABLES

53mm HDPE CONDUITS C/W POWER AND CONTROL CABLES

2C #10 AWG TECK IN TRENCH

SCALE 1:250 METRES

TOP OF TRENCH TO MATCH EXISTING FINISHED GRADE PROVIDE 50mm DEEP SOIL AND GRASS SEED

FINISHED GRADE

CLEAN BACKFILL (NO GRANULAR MATERIAL LARGER THAN 50mm DIA.)

CONTINUOUS DETECTABLE PLASTIC MARKING TAPE

TREATED PLANKING INSTALLED FOR LENGTH OF TRENCH

SAND

POWER CABLE

FIBRE OPTIC CABLE

450

900

150

150

300

A TRENCH DETAIL
N.T.S.

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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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DATE: OCT 2019	
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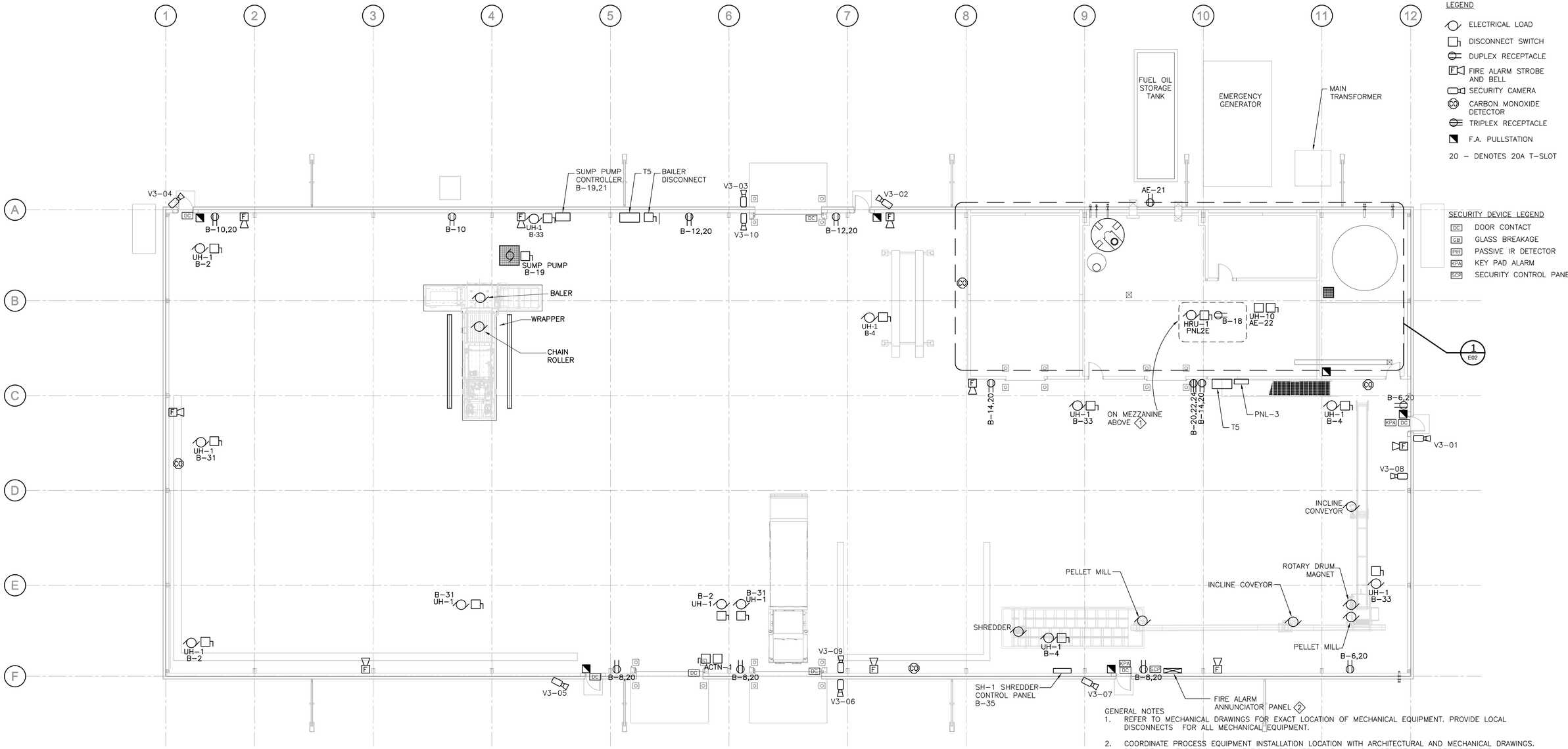
CITY OF IQALUIT
WASTE TRANSFER STATION

ELECTRICAL - SITE PLAN

PROJECT NO. 19-9543

SHEET NO. WTS-E00

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\4DSK\DMS172281\199543-04-ELEC-DES-WTS-E00.DWG PLOTTED BY: KOWALSKI, STANLEY
PLOT DATE: 2020-11-06 @ 3:30:00 PM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



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. CO DETECTION FOR PLANT FLOOR. MONITOR WITH FIRE ALARM SYSTEM TO PROVIDE A TROUBLE SIGNAL ON CO DETECTION.

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

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DATE OCT 2019
SCALE NOTED

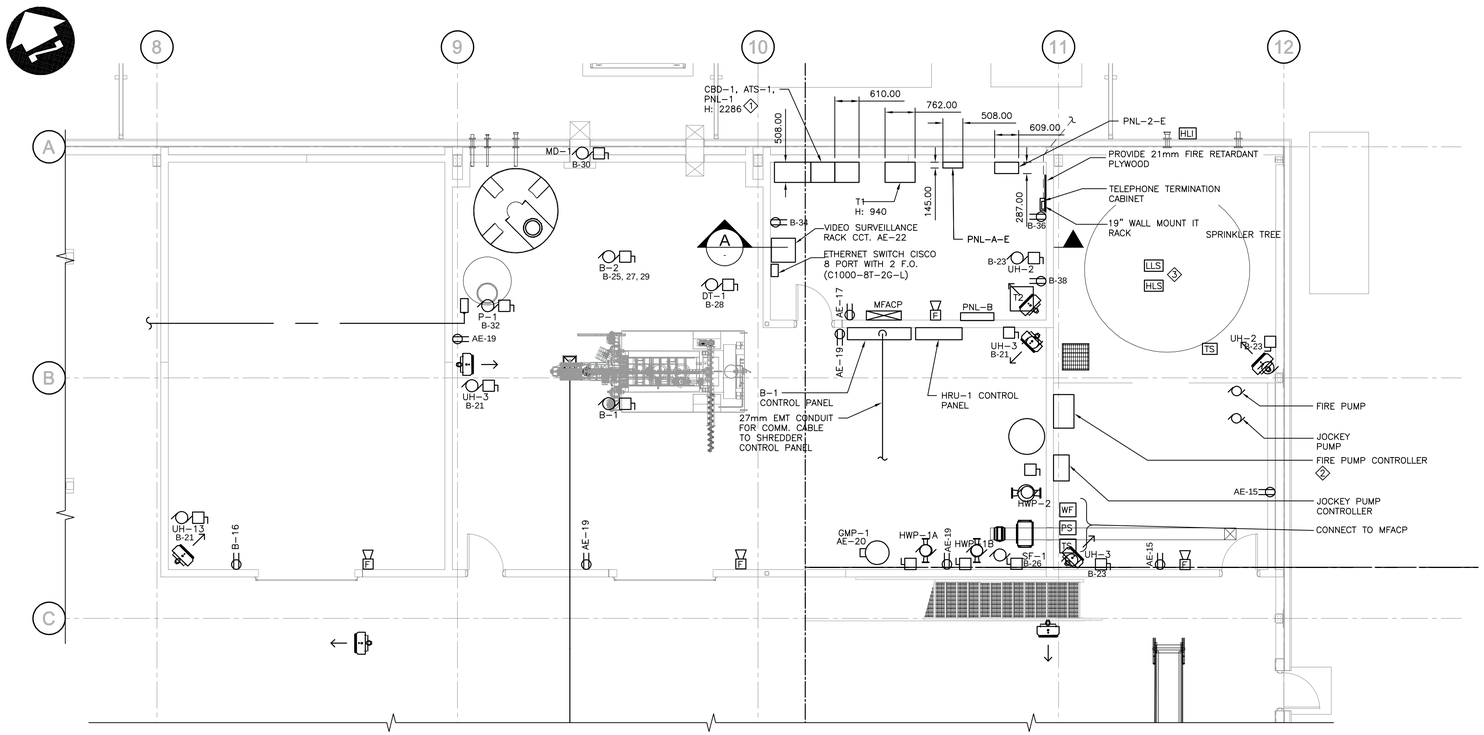
CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

POWER PLAN MAIN BUILDING AREA

SHEET NO. WTS-E01

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\43\50\43\50\43\50



1 E02 POWER PLAN SERVICE ROOMS
1:75

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 2		15		2P			16
17	RECEPT. ELECTRICAL 1		15		15		EXIT SIGNAGE	18
19	RECEPT. BOILER ROOM 4		15		15		GMP–1	20
21	RECEPT. EXTERIOR 1		15		15		VIDEO SURVEILLANCE RACK	22
23	RECEPT. EXTERIOR 1		15				SPACE	24
25	GENERATOR VENT. ENCLOSURE PANEL 100		15				SPACE	26
27							SPACE	28
29	GENERATOR		30				SPACE	30
31			3P				SPACE	32
33	FUEL TRANSFER SYSTEM		15		15		SPARE	34
35	MFACP		15		15		SPARE	36
37	HIGH LEVEL INDICATOR LIGHT		15		15		SPARE	38
39	SPARE		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:** 400 **FEEDER:** -

MOUNTING: SURFACE **LOCATION:** ELECT. RM.

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 CONDUIT FROM THE FIRE PUMP CONTROLLER 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.

DISTRIBUTION PANEL – PNL–B								
CCT NO	DESCRIPTION	LOAD	TRIP AMPS	N ABC	TRIP AMPS	LOAD	DESCRIPTION	CCT NO
01	RECEPT. PARKING	1800	20		15	150	UNIT HEATERS	02
03			2P		15	150	UNIT HEATERS	04
05	RECEPT. PARKING	1800	20		20	600	RECEPT. PLANT ROOM	06
07			2P		20	600	RECEPT. PLANT ROOM	08
09	RECEPT. PARKING	1800	20		20	600	RECEPT. PLANT ROOM	10
11			2P		20	600	RECEPT. PLANT ROOM	12
13	RECEPT. PARKING	1800	20		20	600	RECEPT. PLANT ROOM	14
15			2P		15	600	RECEPT. STORAGE RM.	16
17	RECEPT. PARKING	1800	20		20	600	RECEPT. MEZZANINE	18
19	SUMP PUMP CONTROLLER	500	15					20
21	UNIT HEATERS	150	15		50	2000	CAR AND TRUCK LIFT	22
23	UNIT HEATERS	150	15		3P			24
25					15	250	SF–1	26
27	B–2	2000	25		15	500	DT–1	28
29			3P		15	50	MD–1	30
31	UNIT HEATERS	150	15		15	200	P–1	32
33	UNIT HEATERS	150	20		15	500	ELECTRICAL ROOM RECEPT.	34
35	SHREDDER CONTROL PANEL		20		15	500	ELECTRICAL ROOM RECEPT.	36
37	FRN–1		15		15	500	ELECTRICAL ROOM RECEPT.	38
39	SPARE		20		15		SPARE	40
41	SPARE		20		15		SPARE	42

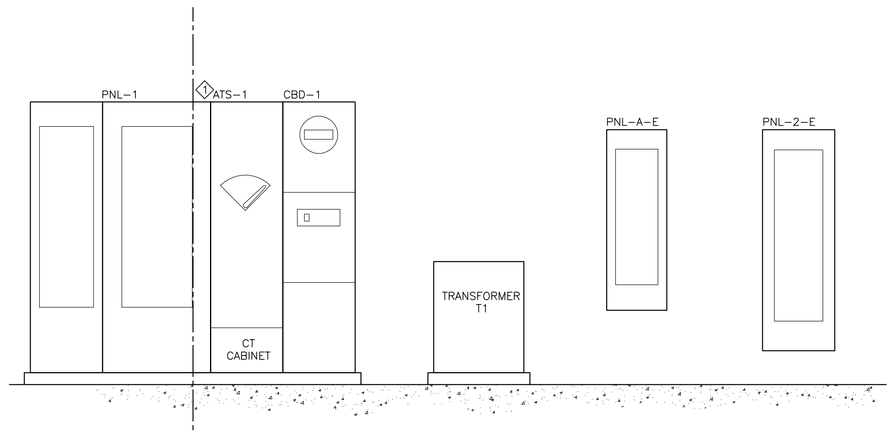
VOLTAGE: 120/208V **PHASE:** 3 **WIRE:** 4 **BREAKER I.C.:** 10 kA

MAIN BREAKER: – **MAINS:** 225 **FEEDER:** –

MOUNTING: SURFACE **LOCATION:** WASTE TRANSFER STATION

FED FROM: T2

NOTES: –
–
–
–



A SECTION
1:25

LEGEND

- PHOTO CELL
- DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- VOICE/DATA RECEPTACLE
- 2 X 2 LUMINAIRE
- STRIP LUMINAIRE
- SWITCH
- LOCAL DISCONNECT
- COMBO EXIT SIGN
- EXTERIOR LUMINAIRE
- CCTV CAMERA
- ELECTRICAL LOAD

LEGEND continued

- WF WATER FLOW SWITCH
- PS PRESSURE SWITCH
- TS TAMPER SWITCH
- LLS LOW LEVEL SWITCH
- HLS HIGH LEVEL SWITCH
- HLI HIGH LEVEL INDICATOR LIGHT

Conditions of Use

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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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SCALE NOTED

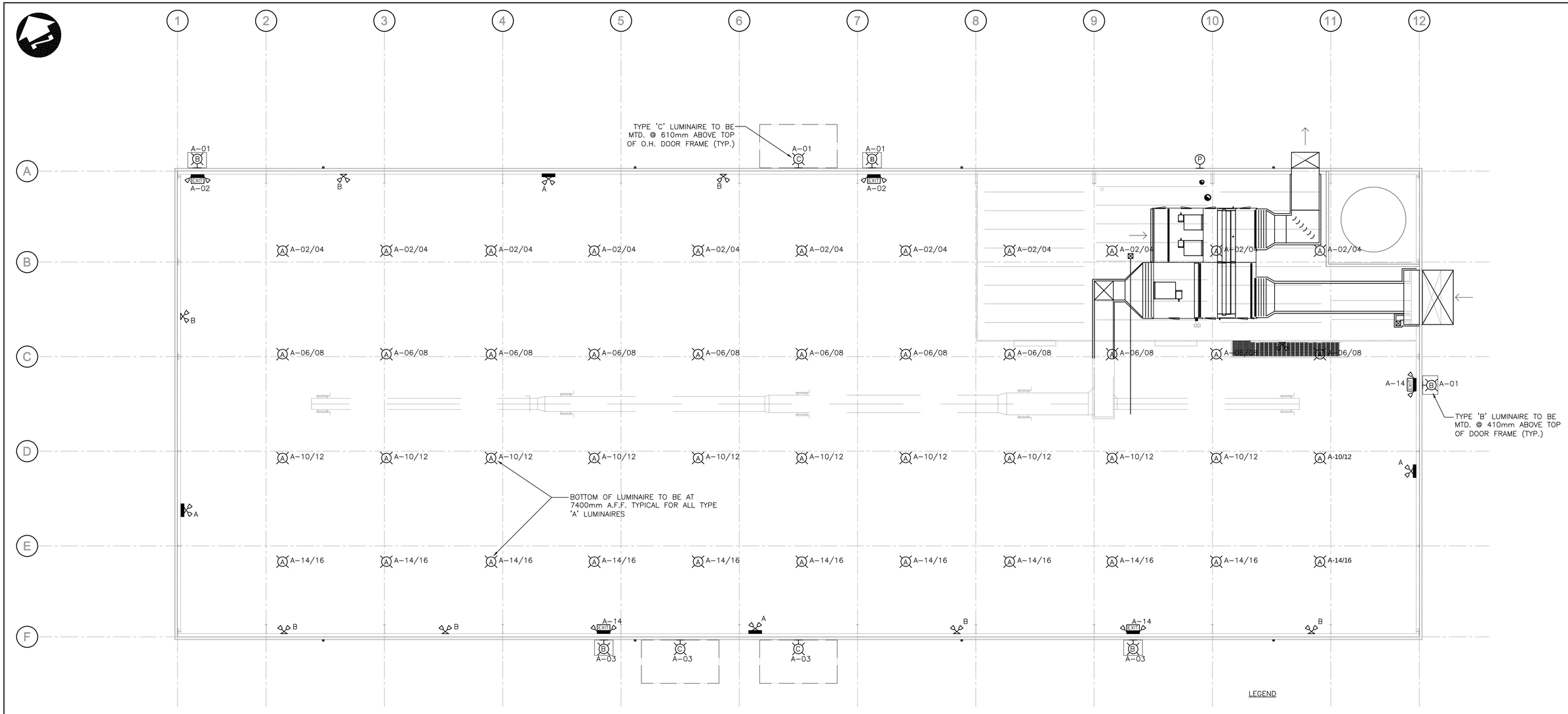
CITY OF IQALUIT
WASTE TRANSFER STATION

POWER AND SYSTEMS PLAN SERVICE ROOMS
PANEL SCHEDULES

PROJECT NO. 19-9543

SHEET NO. WTS-E02

FILENAME: C:\PW_WORKING DIRECTORY\PROJECTS_2019\1495X3-04-ELEC-DES.DWG PLOTTED BY: KOWALSKI, STANLEY
PLOT DATE: 2020-11-06 @ 3:50:40 PM PLOT SCALE: 1:25.810 PLOT STYLE: DILLON-STANDARD.CTB



LIGHTING PLAN MAIN BUILDING AREA

1:125

LEGEND

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

Conditions of Use

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4	100% ISSUED FOR APPROVAL	2020/10/30	K.B.
3	90% REVIEW	2020/01/24	K.B.
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1	30% REVIEW	2019/06/04	K.B.

DESIGN	BLM
REVIEWED BY	BLM
DRAWN	SCK
CHECKED BY	KB
DATE	OCT 2019
SCALE	NOTED

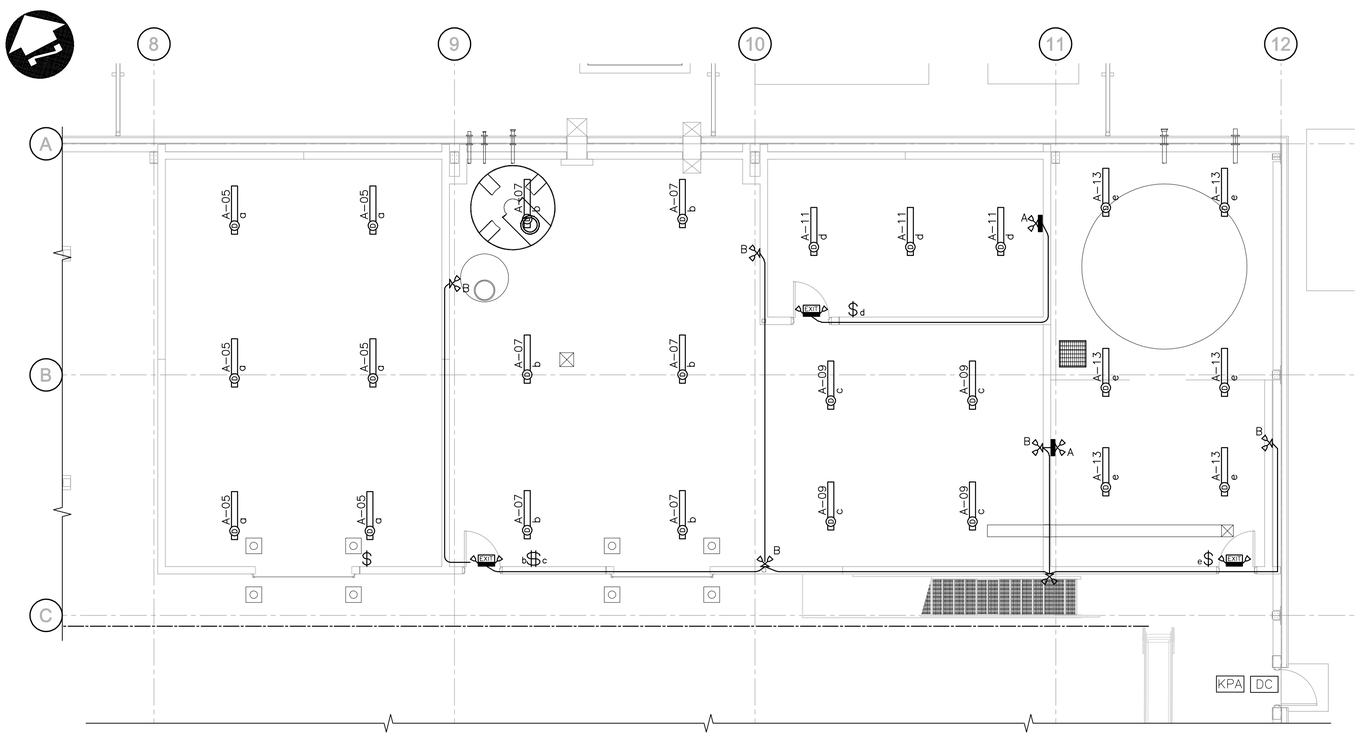
CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

LIGHTING PLAN MAIN BUILDING

SHEET NO. WTS-E03

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\493SK\DMS127261\99543-04-ELEC-DES.DWG PLOTTED BY: KOWALSKI, STANLEY
PLOT DATE: 2020-11-06 @ 2:30:58 PM PLOT SCALE: 1:25.8167 PLOT STYLE: DILLON STANDARD.CTB



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

G	LITHONIA LIGHTING	DSX1 LED P9 30K T2M 120 SPA KMA8 DDBXD U PER DDBXD	241 WATT	120	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

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DESIGN: BLM | REVIEWED BY: BLM
DRAWN: SCK | CHECKED BY: KB
DATE: OCT 2019
SCALE: NOTED

CITY OF IQALUIT
WASTE TRANSFER STATION

LIGHTING PLAN SERVICE ROOMS
FIXTURE SCHEDULE

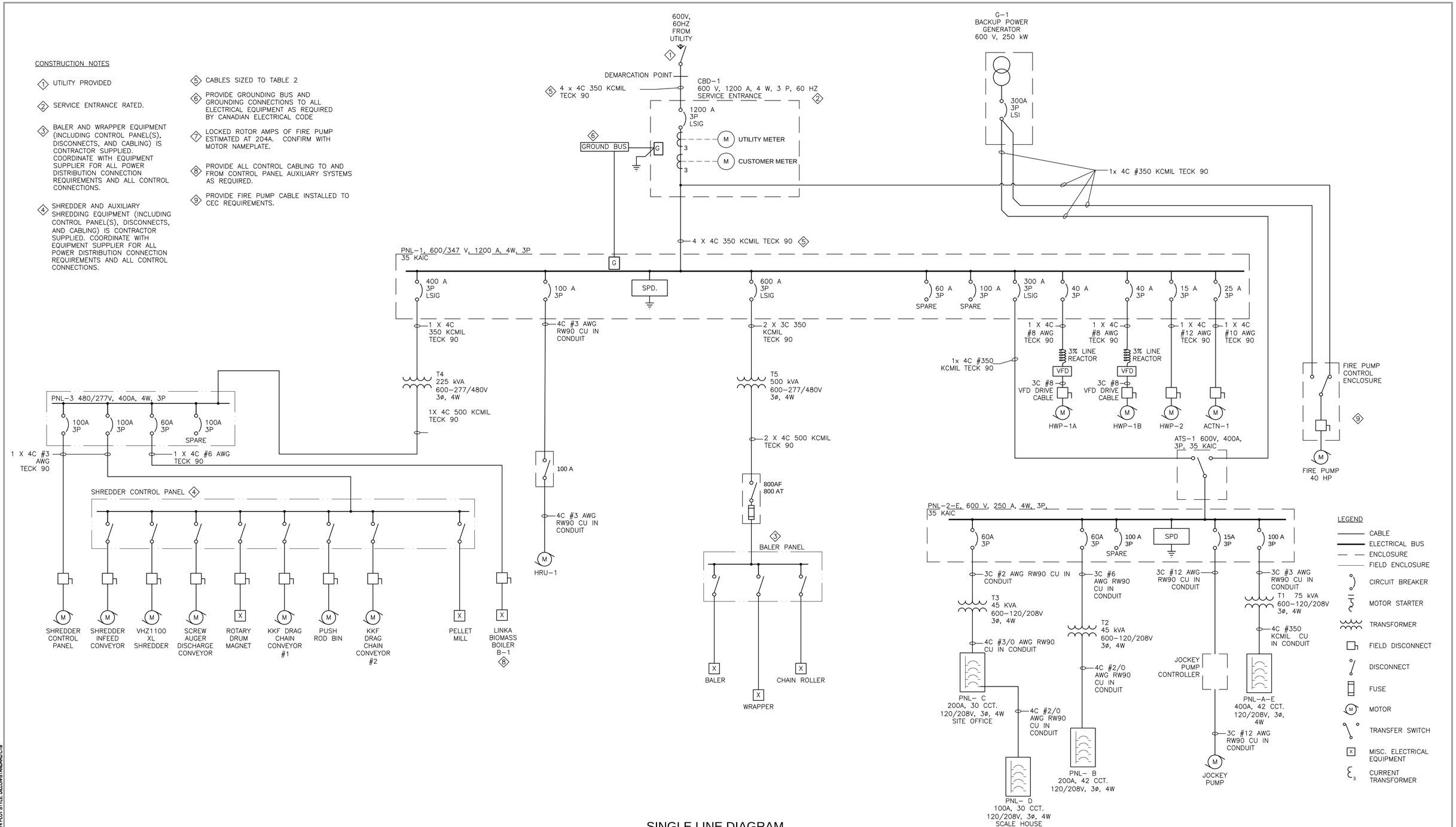
PROJECT NO. 19-9543

SHEET NO. WTS-E04

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PLOT DATE: 2020-11-02 @ 3:31:11 PM PLOT SCALE: 1:25.810776 PLOT STYLE: DILLON-STANDARD.CTB

CONSTRUCTION NOTES

1. UTILITY PROVIDED
2. SERVICE ENTRANCE RATED.
3. BALER AND WRAPPER 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.
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 FIRE PUMP ESTIMATED AT 204A. 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.



SINGLE LINE DIAGRAM
N.T.S.

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DESIGN: BLM | REVIEWED BY: BLM
DRAWN: SCK | CHECKED BY: KB
DATE: OCT 2019
SCALE: SINGLE LINE DIAGRAM

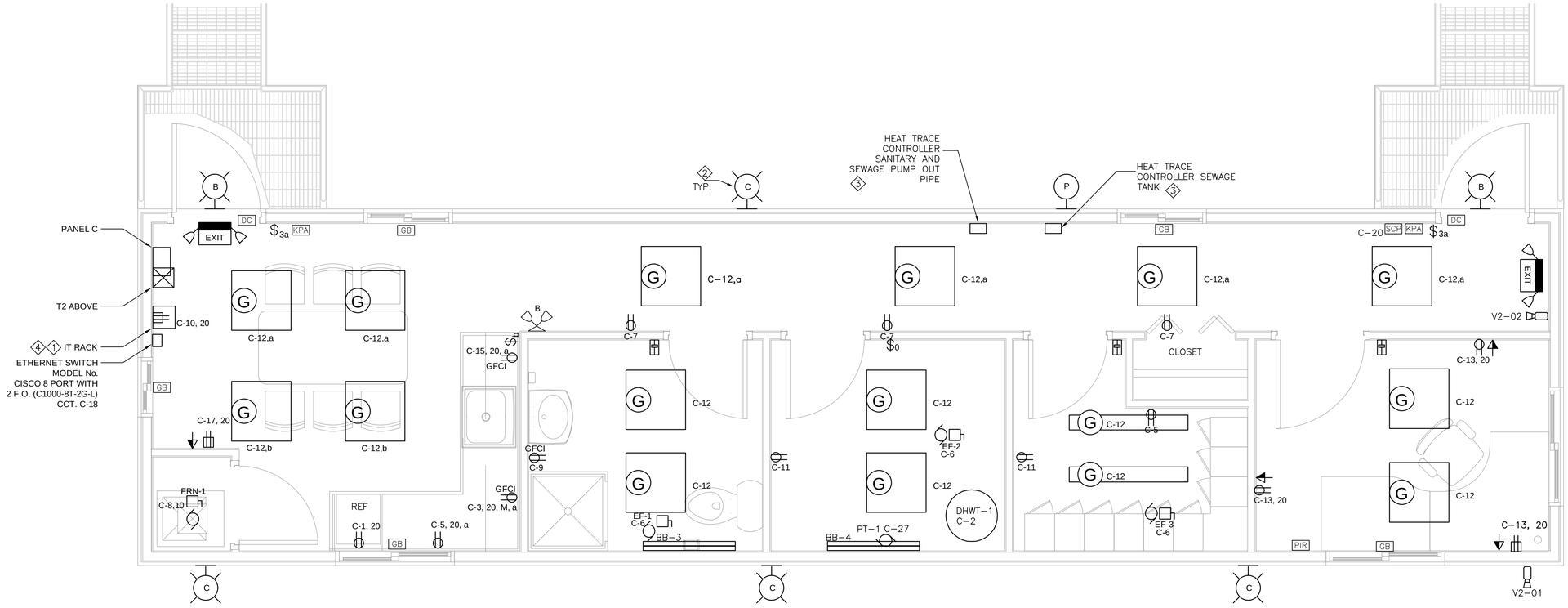
CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

OVERALL SITE POWER
SINGLE LINE DIAGRAM

SHEET NO. WTS-E05

FILENAME: C:\PW\WORKING DIRECTORY\PROJECTS\191943\DWGS\WTS\191943-ALE-E-SLD.DWG PLOTTED BY: KOWALSKI, STANLEY
PLOT DATE: 2020-11-06 @ 3:47:23 PM PLOT SCALE: 1.00 PLOT STYLE: DILLON-STANDARD.CTB



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
- B REMOTE DUAL EMERGENCY LAMP
- EXTERIOR LUMINAIRE
- CCTV CAMERA
- ELECTRICAL LOAD

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.

DISTRIBUTION PANEL 'PNL-C'

CCT NO	DESCRIPTION	LOAD	TRIP AMPS	N ABC	TRIP AMPS	LOAD	DESCRIPTION	CCT NO
01	RECEPTACLE LUNCHROOM	600	20A		35A	3000	DHWT-1	02
03	RECEPTACLE LUNCHROOM MICROWAVE	600	20A				SPACE	04
05	RECEPTACLE LUNCHROOM	600	20A		15A	100	EF-1/EF-2/EF-3	06
07	RECEPTACLE HALLWAY	600	15A		60A	5000	FRN-1	08
09	RECEPTACLE BATHROOM	600	15A		20A	600	RECEPTACLE IT RACK	10
11	RECEPTACLE LOCKER ROOM	600	15A		20A	600	INTERIOR LTG	12
13	RECEPTACLE OFFICE	600	20A		20A	350	EXTERIOR LTG	14
15	RECEPTACLE LUNCHROOM	600	20A		15A	50	EXIT SIGNS	16
17	RECEPTACLE LUNCHROOM	600	20A		15A		ETHERNET SWITCH	18
19	HEAT TRACE SANITARY	2000	20A		15A		SECURITY CONTROL PANEL	20
21	GFCI		2P		15A	750	BASEBOARD HEATER BB-3	22
23	HEAT TRACE TANK	2000	20A		15A	750	BASEBOARD HEATER BB-4	24
25	GFCI		2P					26
27	PUMP PT-1	100	15A		100A		PANEL - D	28
29	SECURITY CAMERAS		15A		3P			30
31	SPARE		15A				SPACE	32
33	SPARE		15A				SPACE	34
35	SPARE		15A				SPACE	36
37	SPACE						SPACE	38
39	SPACE						SPACE	40
41	SPACE						SPACE	42

VOLTAGE: 120/208 PHASE: 3 WIRE: 4 BREAKER I.C.: 10 kAIC

MAIN BREAKER: 200A MAINS: 225A FEEDER: -

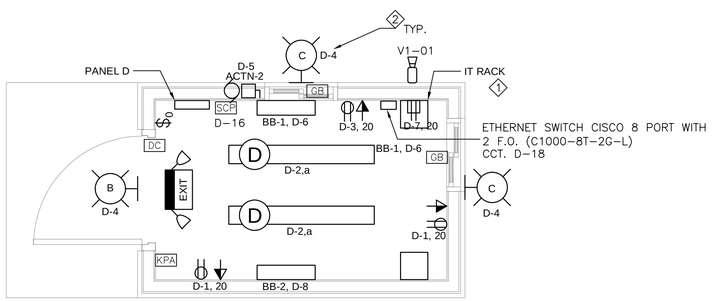
MOUNTING: FLUSH LOCATION: SITE OFFICE

FED FROM: T3/PNL-1

NOTES:

SITE OFFICE PLAN

1:25



SCALE HOUSE PLAN

1:25

DISTRIBUTION PANEL 'PNL-D'

CCT NO	DESCRIPTION	LOAD	TRIP AMPS	N ABC	TRIP AMPS	LOAD	DESCRIPTION	CCT NO
01	RECEPTACLE	600	20A		15A	104	INTERIOR LT6G	02
03	RECEPTACLE	600	20A		15A	350	EXTERIOR LTG	04
05	ACTN-2	600	20A		15A	500	BB-1	06
07	RECEPTACLE FOR IT RACK	600	15		15A	500	BB-2	08
09	WEIGH SCALE DIGITIZER		15A		15A	50	EXIT SIGN	10
11	TRAFFIC SIGNALS		15A		15A		SCALE HOUSE SITE LIGHTING	12
13	RADIATION DETECTORS		15A		15A		SCALE HOUSE SITE LIGHTING	14
15	SPARE		15A		15A		SECURITY CONTROL PANEL	16
17	SPARE		15A		15A		ETHERNET SWITCH	18
19	SPARE		20A		15A		RECEPTACLE	20
21	SPARE		20A		15A		SPARE	22
23	SPARE		20A		15A		SPARE	24
25	SPARE		20A		15A		SPARE	26
27	SPARE		20A		15A		SPARE	28
29	SPARE		20A		15A		SPARE	30

VOLTAGE: 120/208 PHASE: 3 WIRE: 4 BREAKER I.C.: 10 kAIC

MAIN BREAKER: 100A MAINS: 100A FEEDER: -

MOUNTING: FLUSH LOCATION: SCALE HOUSE

FED FROM: PNL-C

NOTES:

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DESIGN: BLM REVIEWED BY: BLM

DRAWN: SCK CHECKED BY: KB

DATE: OCT 2019

SCALE: AS NOTED

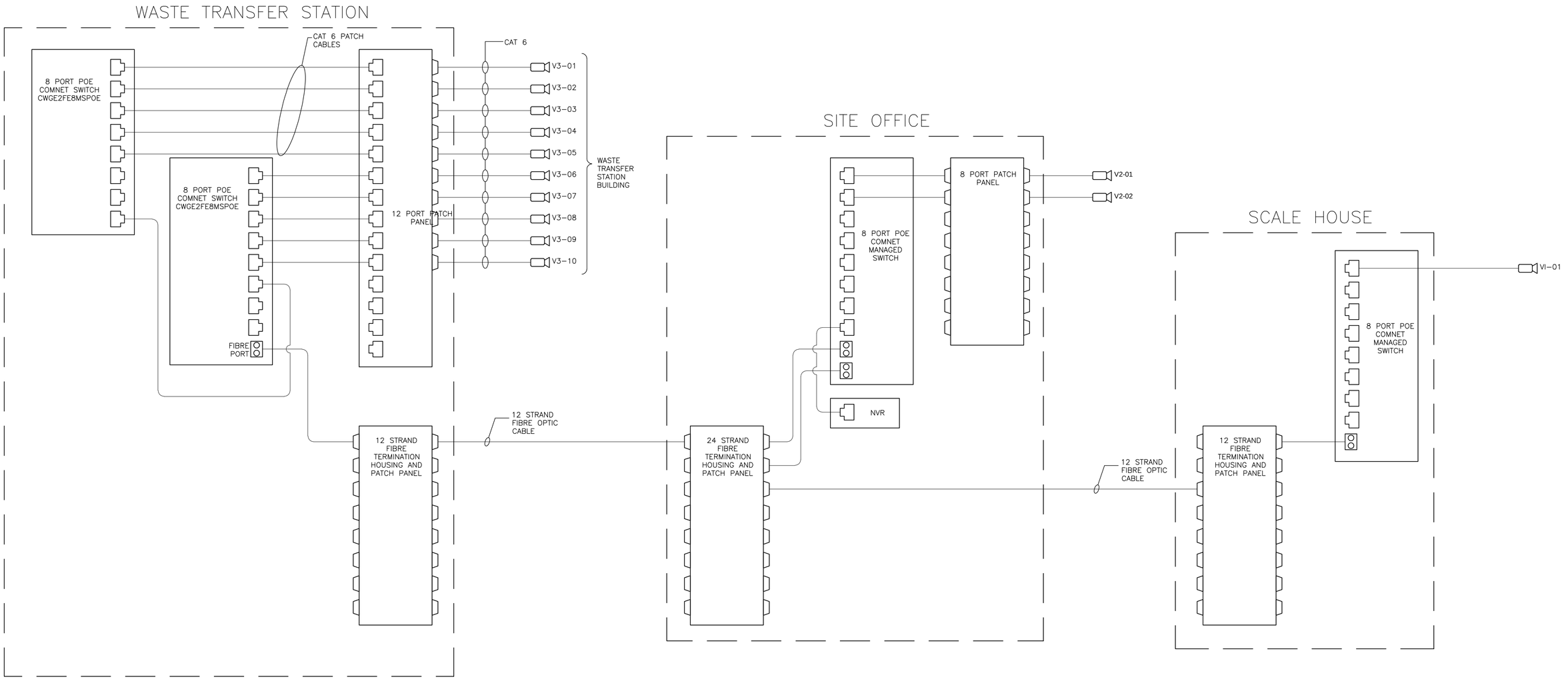
CITY OF IQALUIT
WASTE TRANSFER STATION

PROJECT NO. 19-9543

ELECTRICAL PLAN
SITE OFFICE AND SCALE HOUSE

SHEET NO. WTS-E06

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\45SK\DMS127281\195943-04-ELEC-DES.DWG PLOTTED BY: KOWALSKI, STANLEY
PLOT DATE: 2020-11-06 @ 3:31:38 PM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



ONE LINE DIAGRAM FOR VIDEO CAMERAS

SCALE: N.T.S.

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DRAWN	SCK
CHECKED BY	KB
DATE	OCT 2019
SCALE	SINGLE LINE DIAGRAM

CITY OF IQALUIT
WASTE TRANSFER STATION

SECURITY CAMERA SYSTEM

PROJECT NO. 19-9543

SHEET NO. WTS-E07

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