



**Water and Waste
Eaux et déchets**

Our File No.:G-270

March 10, 2022

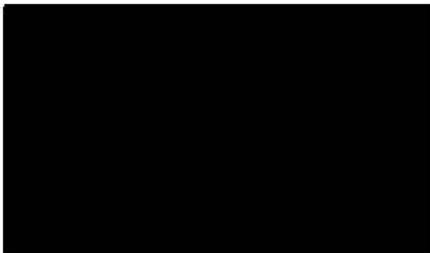
Manitoba Conservation and Climate
Environmental Approvals
1007 Century Street
Winnipeg, MB R3H 0W4

Attention: Edwin Yazon, P.Eng.

**RE: LANDFILL DISPOSAL CELL (CELL 33) RECORD DRAWINGS
BRADY ROAD RESOURCE MANAGEMENT FACILITY (CLIENT FILE NO.: 5556.00)**

The attached record drawings are being submitted to satisfy requirements of Condition 139 of Environment Act License 3081R. The drawing set includes 15 sheets detailing the constructed waste disposal cell base and sides, and leachate collection system for a new disposal cell (Cell 33).

As discussed, an electronic copy (PDF) is being submitted at this time. If printed copies are required in the future, please advise.



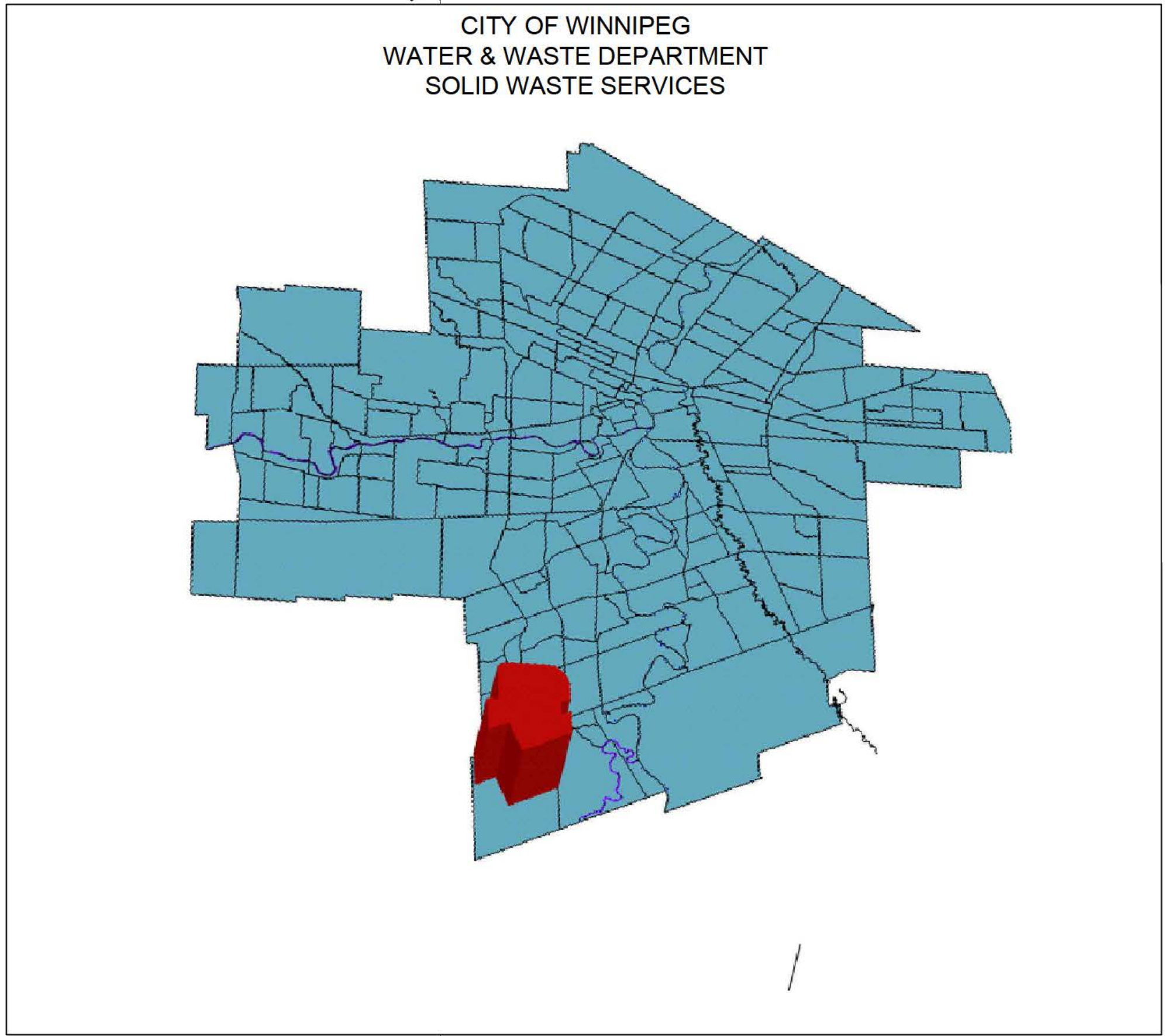
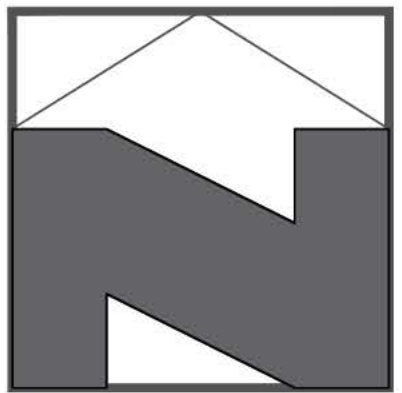
Ash Raichura, P.Eng.
Project Coordinator

AR/ar

Attachment (Cell 33 record drawing set – 15 sheets)

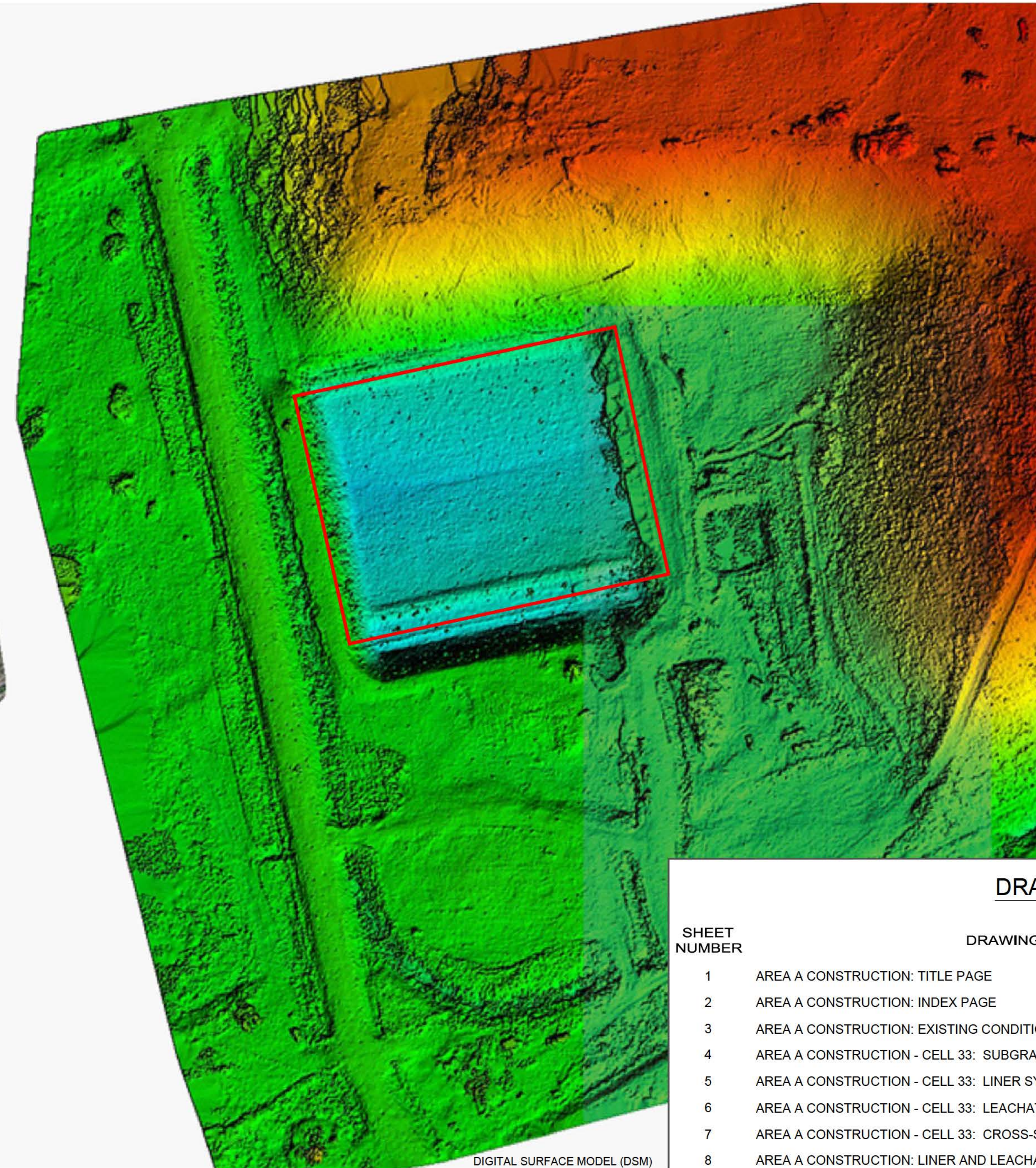
c: Michael Gordichuk, Manager of Solid Waste Services (email)
Chris Kozak, Superintendent of Operations (email)

**BRADY ROAD RESOURCE
MANAGEMENT FACILITY
(BRRMF)
AREA A CONSTRUCTION CELL 33
TENDER No. 754-2020
RECORD DRAWINGS**





ORTHO-PHOTO



DIGITAL SURFACE MODEL (DSM)

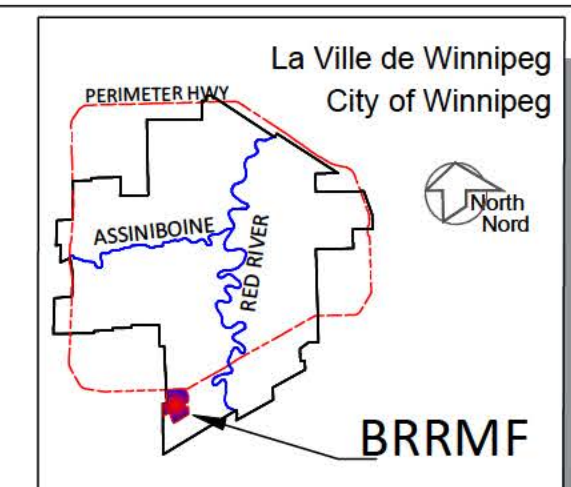
ORTHO-PHOTO & DSM COMPLETED BY UAV ON SEPTEMBER 27, 2021



RECORD DRAWING	
DATE: YYMMDD	01/28/2022
DRAFTED BY	MO
FIELD INFO BY	ARR
CHECKED BY	ARR

DRAWING INDEX

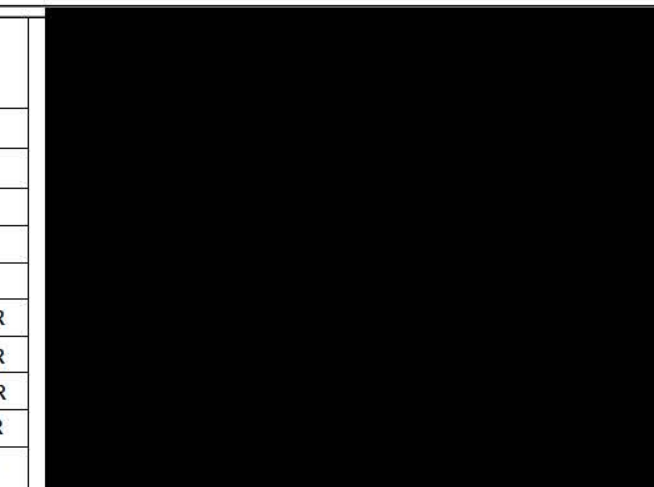
SHEET NUMBER	DRAWING TITLE
1	AREA A CONSTRUCTION: TITLE PAGE
2	AREA A CONSTRUCTION: INDEX PAGE
3	AREA A CONSTRUCTION: EXISTING CONDITIONS (2020)
4	AREA A CONSTRUCTION - CELL 33: SUBGRADE
5	AREA A CONSTRUCTION - CELL 33: LINER SYSTEM (TOP OF COMPACTED CLAY/HDPE)
6	AREA A CONSTRUCTION - CELL 33: LEACHATE COLLECTION SYSTEM (TOP OF GRANULAR)
7	AREA A CONSTRUCTION - CELL 33: CROSS-SECTIONS
8	AREA A CONSTRUCTION: LINER AND LEACHATE COLLECTION SYSTEM DETAILS
9	AREA A CONSTRUCTION: LEACHATE COLLECTION SYSTEM TRENCH AND CLEANOUT RISER PIPE DETAILS I
10	AREA A CONSTRUCTION: LEACHATE COLLECTION SYSTEM TRENCH AND CLEANOUT RISER PIPE DETAILS II
11	AREA A CONSTRUCTION: PERIMETER TIE-IN DETAILS I
12	AREA A CONSTRUCTION: PERIMETER TIE-IN DETAILS II
13	AREA A CONSTRUCTION: MISCELLANEOUS DETAILS
14	AREA A CONSTRUCTION - CELL 33: MANHOLE
15	AREA A CONSTRUCTION: MECHANICAL DETAILS



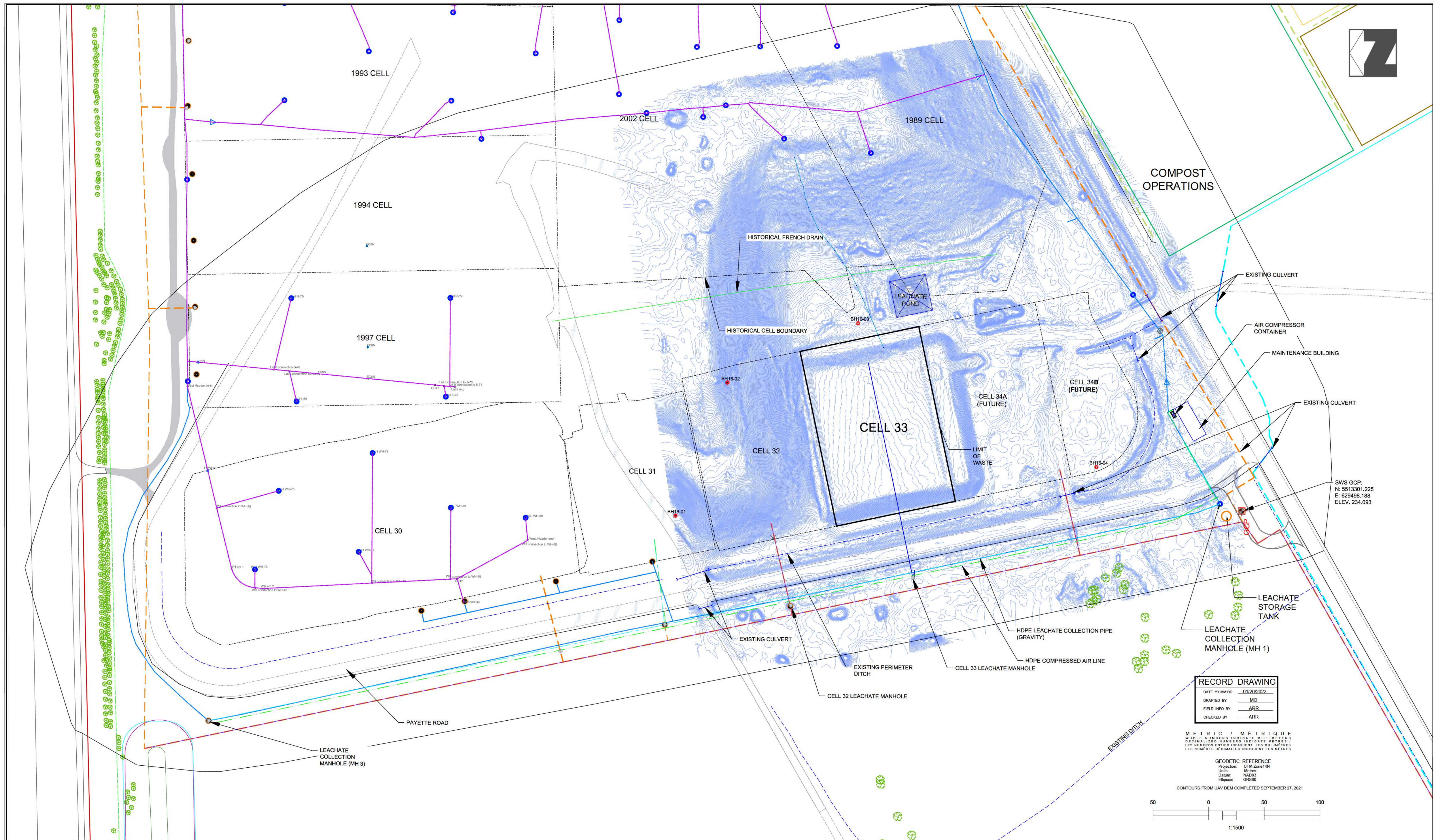
HATCH PATTERNS		
DESCRIPTION		
	NATIVE BACKFILL OR PREPARED SUBGRADE	
	WASTE	
	SAND DRAINAGE LAYER	
	CELL PROPOSED	
	STRUCTURAL FILL	

ABBREVIATIONS	
ELEV	ELEVATION
MIN	MINIMUM
N.I.C.	NOT IN CONTRACT

B.M. SWS GCP N: 5 513 301.225 E: 629 498.188	ELEV. 234.093		
CONSTRUCTION COMPLETION DATE: September 28, 2021			
NO.	REVISIONS	DATE	BY
4	RECORD DRAWING	01/28/2022	ARR
3	ISSUED FOR CONSTRUCTION	05/10/2021	ARR
2	ISSUED FOR TENDER	02/18/2021	ARR
1	ISSUED FOR REGULATORY COMPLIANCE	02/17/2021	ARR



THE CITY OF WINNIPEG / LA VILLE DE WINNIPEG WATER AND WASTE DEPARTMENT SOLID WASTE SERVICES			
DESIGNED BY: ARR	CHECKED BY: ARR	BRADY ROAD RESOURCE MANAGEMENT FACILITY (BRRMF) INDEX PAGE	SHEET- 2 OF 15 CITY DRAWING NUMBER C2000
DRAWN BY: MO	APPROVED BY: ARR		
SCALE: HORIZONTAL 1: 14.85		RELEASED FOR CONSTRUCTION	

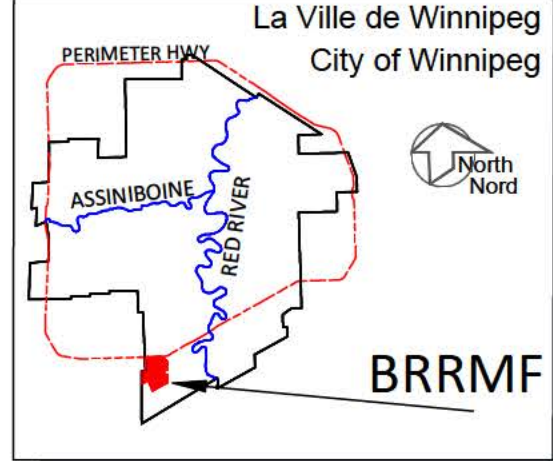
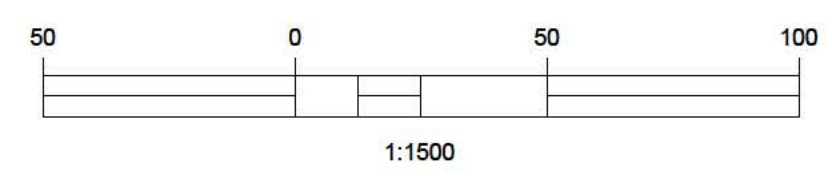


RECORD DRAWING	
DATE YYMMDD	01/26/2022
DRAFTED BY	MO
FIELD INFO BY	ARR
CHECKED BY	ARR

METRIC / MÉTRIQUE
 WHOLE NUMBERS INDICATE MILLIMETERS
 DES NUMÉRIQUES ENTIÈRES INDICENT LES MILLIMÈTRES
 LES NUMÉRIQUES DÉCIMAUX INDICENT LES MÈTRES

GEODETIC REFERENCE
 Projection: UTM Zone 14N
 Units: Metres
 Datum: NAD83
 Ellipsoid: GRS80

CONTOURS FROM UAV DEM COMPLETED SEPTEMBER 27, 2021



LEGEND/LEGENDE	
	LEACHATE HEADER PIPES
	FENCE LINE
	PERIMETER DITCH
	MAJOR CONTOUR
	MINOR CONTOUR
	LANDFILL WELLS & LINES
	PROPERTY BOUNDARY
	LANDFILL ACCESS ROAD
	LEACHATE COLLECTION PIPE
	COMPRESSED AIR LINE
	CELLS BOUNDARY
	CELL (NEW)
	SOIL SAMPLES (BH-16-##)
	GROUND CONTROL
	LEACHATE COLLECTION MANHOLE

- NOTES:
- EXCAVATION CONTOURS ARE AT 0.5 METRE INTERVALS.
 - CONTOURS REPRESENT BASE ELEVATION.
 - ALL ELEVATION ARE REFERENCED TO GEODETIC DATUM.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS.

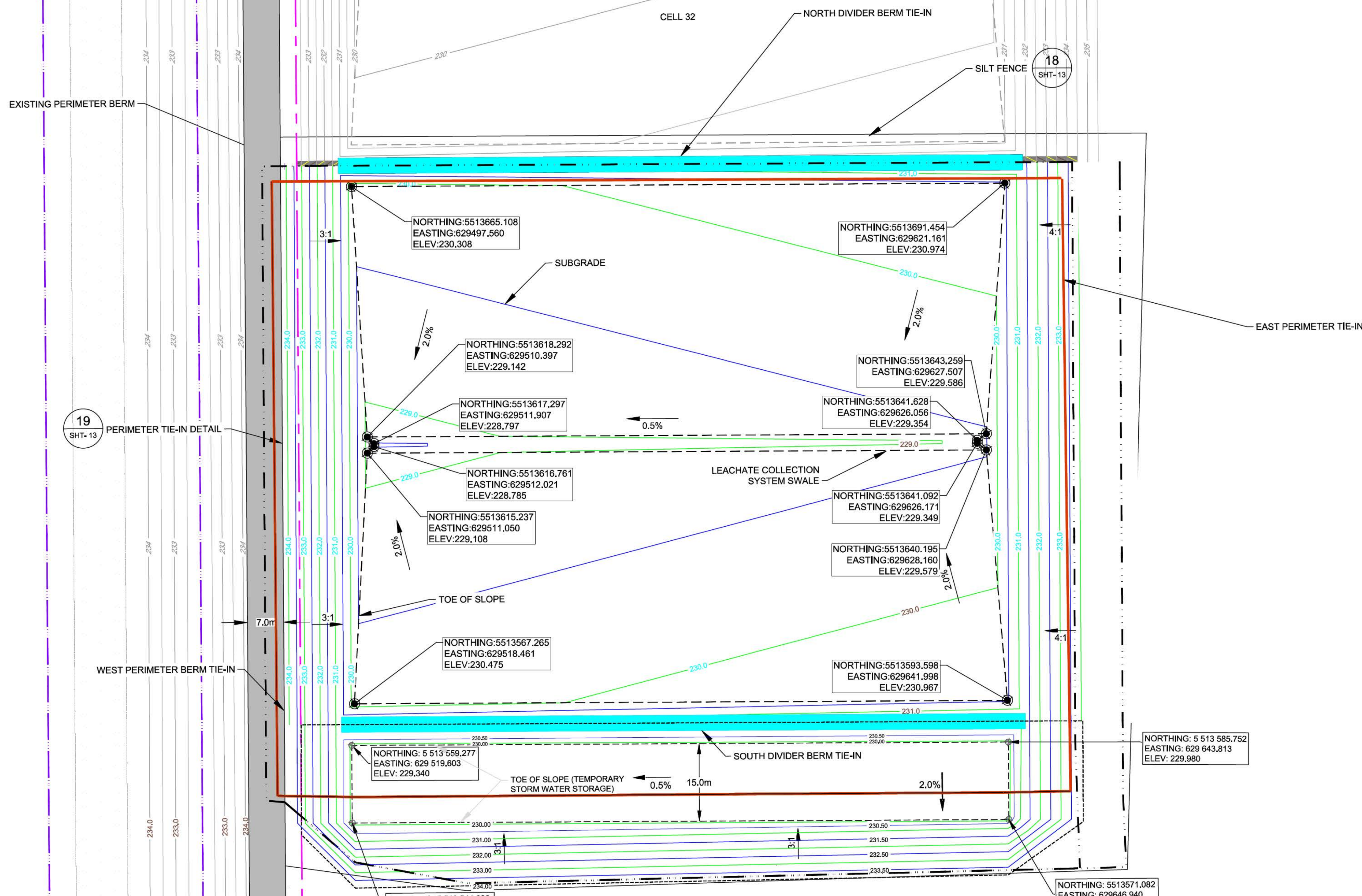
B.M.	SWS GCP N 5513301.225	E: 629498.188	
ELEV.	234.093		
CONSTRUCTION COMPLETION DATE:	September 28, 2021		
NO.	REVISIONS	DATE	BY
4	RECORD DRAWING	01/26/2022	ARR
3	ISSUED FOR CONSTRUCTION	05/10/2021	ARR
2	ISSUED FOR TENDER	02/18/2021	ARR
1	ISSUED FOR REGULATORY COMPLIANCE	02/17/2021	ARR

THE CITY OF WINNIPEG / LA VILLE DE WINNIPEG
 WATER AND WASTE DEPARTMENT
 SOLID WASTE SERVICES

DESIGNED BY: ARR
 CHECKED BY: ARR
 DRAFTED BY: MO
 APPROVED BY: ARR
 SCALE: HORIZONTAL 1:1500
 RELEASED FOR CONSTRUCTION

BRADY ROAD RESOURCE MANAGEMENT FACILITY (BRRMF)
 AREA A CONSTRUCTION - CELL 33
 EXISTING CONDITIONS 2020

SHEET- 3 OF 15
 CITY DRAWING NUMBER
C3000



19
SHT-13
PERIMETER TIE-IN DETAIL

18
SHT-13

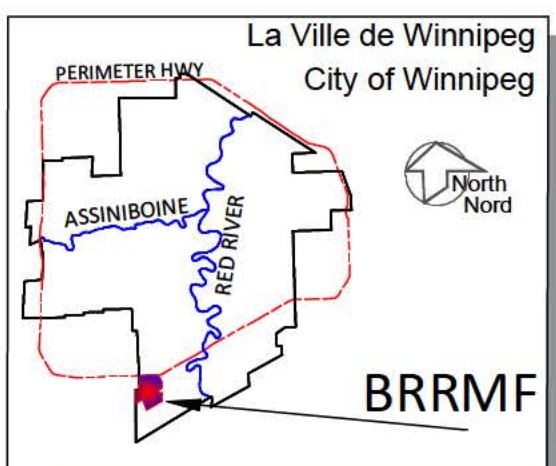
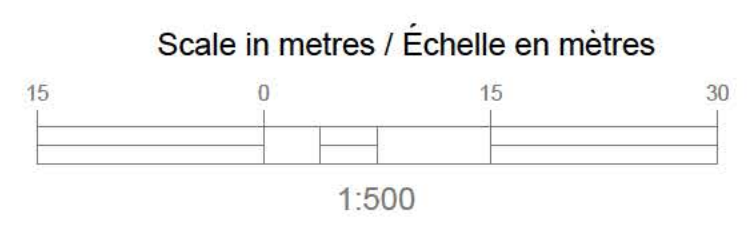
RECORD DRAWING	
DATE YYMMDD	01/26/2022
DRAFTED BY	MO
FIELD NO BY	ARR
CHECKED BY	ARR

WARNING

1. NOTIFY THE LANDFILL SUPERVISOR OF THE PROPOSED LOCATION OF EXCAVATION.
2. TAKE PRECAUTION TO AVOID DAMAGE TO LEACHATE AND GAS INSTALLATIONS.
3. TAKE PRECAUTION TO AVOID DAMAGE TO EXISTING LINER SYSTEMS.

METRIC / MÉTRIQUE
WHOLE NUMBERS INDICATE MILLIMETERS
DECIMALIZED NUMBERS INDICATE METRES /
LES NUMÉROS ENTIERS INDIQUENT LES MILLIMÈTRES
LES NUMÉROS DÉCIMALIÉS INDIQUENT LES MÈTRES

GEODETTIC REFERENCE
Projection: UTM Zone14N
Units: Metres
Datum: NAD83
Ellipsoid: GRS80

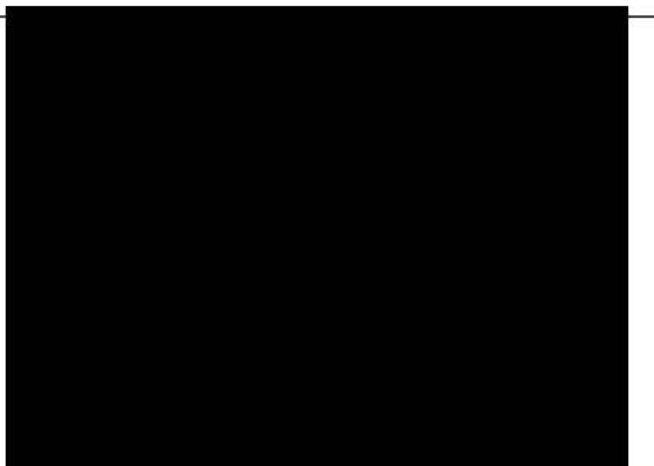


LEGEND/LEGENDE		#	
	PERIMETER DITCH		GCP's - SURVEY SEPT. 24, 2021
	MAJOR CONTOUR		LEACHATE COLLECTION HEADER
	MINOR CONTOUR		EXISTING AIR LINE
	EXISTING MAJOR CONTOUR		PERIMETER BERM
	EXISTING MINOR CONTOUR		ANCHOR TRENCH
	TOE OF SLOPE		ANCHOR TRENCH
	TOE OF SLOPE		TEMPORARY DIVERSION BERM
	LIMIT OF CONSTRUCTION		
	LIMIT OF WASTE		
	ANCHOR TRENCH		
	LANDFILL ACCESS ROAD		

NOTES:

1. EXCAVATION CONTOURS ARE AT 0.5 METRE INTERVALS.
2. CONTOURS REPRESENT BASE ELEVATION.
3. ALL ELEVATION ARE REFERENCED TO GEODETTIC DATUM.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS.

SURVEY: SUBGRADE COORD.			
DATA: NORTHING, EASTING, & ELEVATION			
CONSTRUCTION COMPLETION DATE: September 28, 2021			
NO.	REVISIONS	DATE	BY
4	RECORD DRAWING	01/26/2022	ARR
3	ISSUED FOR CONSTRUCTION	05/10/2021	ARR
2	ISSUED FOR TENDER	03/18/2021	ARR
1	ISSUED FOR REGULATORY COMPLIANCE	02/17/2021	ARR



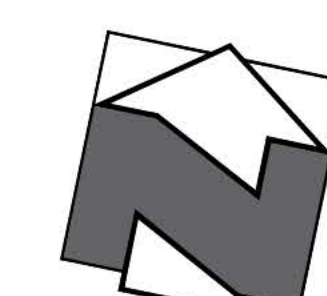
THE CITY OF WINNIPEG / LA VILLE DE WINNIPEG
WATER AND WASTE DEPARTMENT
SOLID WASTE SERVICES

DESIGNED BY: ARR
DRAWN BY: MO
SCALE: HORIZONTAL 1:500
VERTICAL

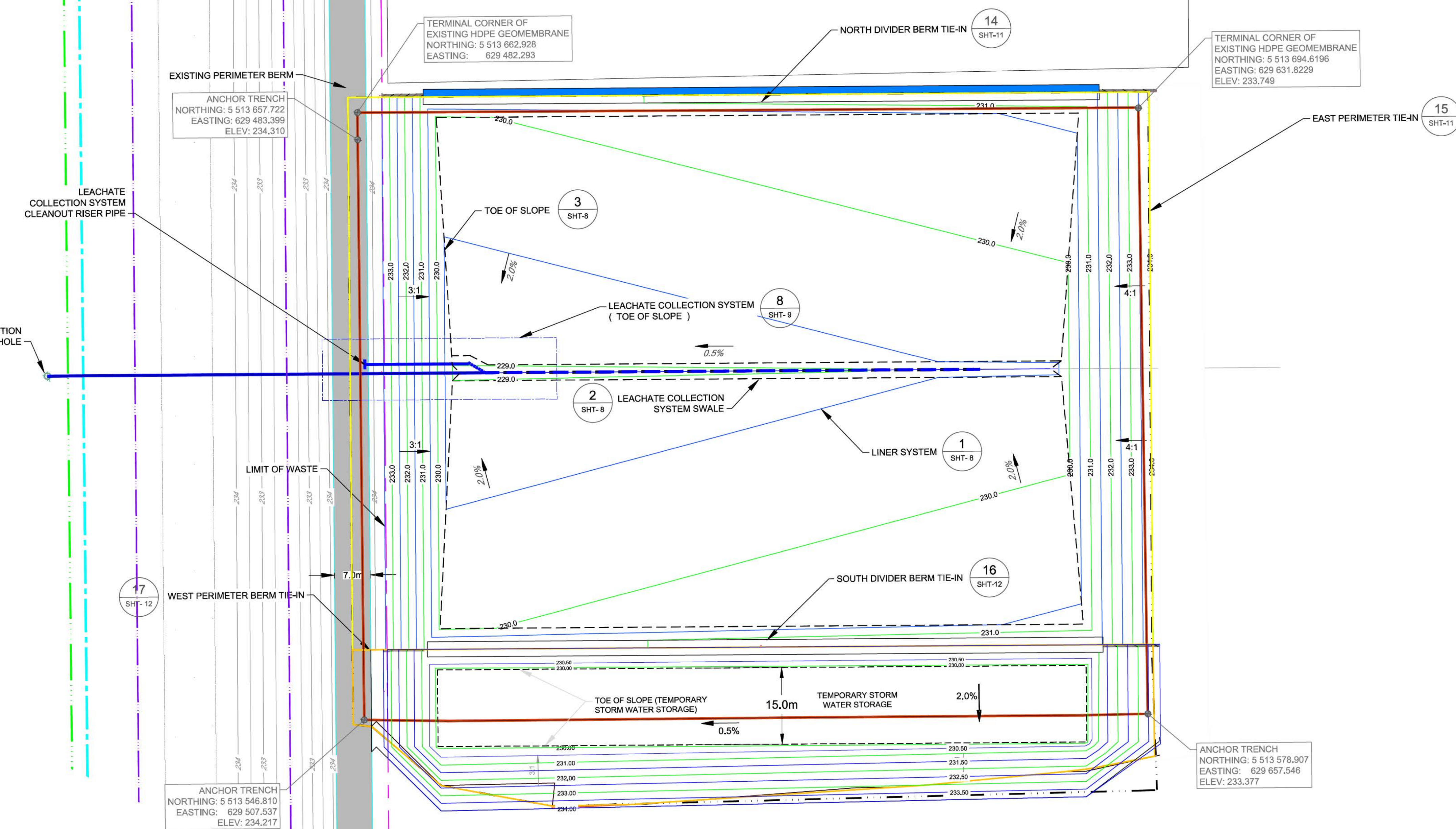
CHECKED BY: ARR
APPROVED BY: ARR
RELEASED FOR CONSTRUCTION

BRADY ROAD RESOURCE MANAGEMENT FACILITY (BRRMF)
AREA A CONSTRUCTION -CELL 33
SUBGRADE

SHEET-4 OF 15
CITY DRAWING NUMBER C3001



CELL 32



RECORD DRAWING	
DATE YY MM DD	01/26/2022
DRAFTED BY	MO
FIELD INFO BY	ARR
CHECKED BY	ARR

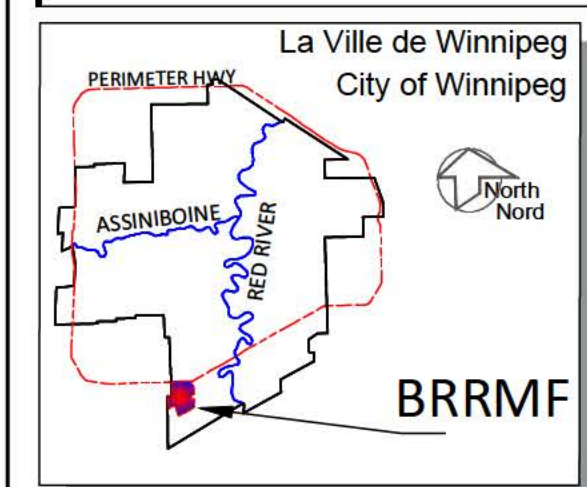
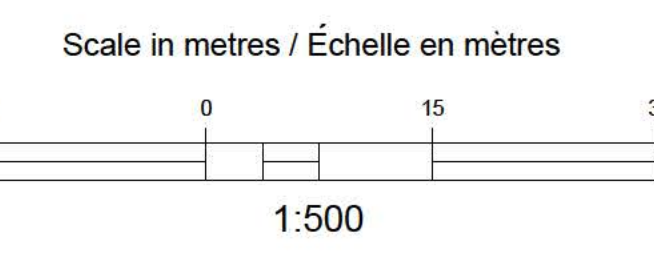
WARNING

1. NOTIFY THE LANDFILL SUPERVISOR OF THE PROPOSED LOCATION OF EXCAVATION.
2. TAKE PRECAUTION TO AVOID DAMAGE TO LEACHATE AND GAS COLLECTION.
3. TAKE PRECAUTION TO AVOID DAMAGE TO EXISTING LINER SYSTEMS.

Top of HDPE Liner captured via aerial drone survey on August 13, 2021 by City of Winnipeg staff.

METRIC / MÉTRIQUE
WHOLE NUMBERS INDICATE MILLIMETERS
DECIMALIZED NUMBERS INDICATE METRES /
LES NUMÉROS ENTIERS INDIQUENT LES MILLIMÈTRES
LES NUMÉROS DÉCIMALIÉS INDIQUENT LES MÈTRES

GEODETIC REFERENCE
 Projection: UTM Zone 14N
 Units: Metres
 Datum: NAD83
 Ellipsoid: GRS80



LEGEND/LEGENDE	
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	TOE OF SLOPE
	EXISTING ACCESS ROAD
	LIMIT OF CONSTRUCTION
	PERIMETER DITCH
	TEMPORARY DIVERSION BERM
	LIMIT OF WASTE
	200mmØ HDPE SDR11 NON-PERFORATED LEACHATE COLLECTION PIPE/CLEAN OUT
	200mmØ HDPE SDR11 PERFORATED LEACHATE COLLECTION PIPE/CLEAN OUT
	PERIMETER BERM
	EXISTING LEACHATE COLLECTION HEADER
	EXISTING AIR LINE
	ANCHOR TRENCH

NOTES:

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2. CONTOURS REPRESENT BASE ELEVATION.
3. ALL ELEVATION ARE REFERENCED TO GEODETIC DATUM.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS.

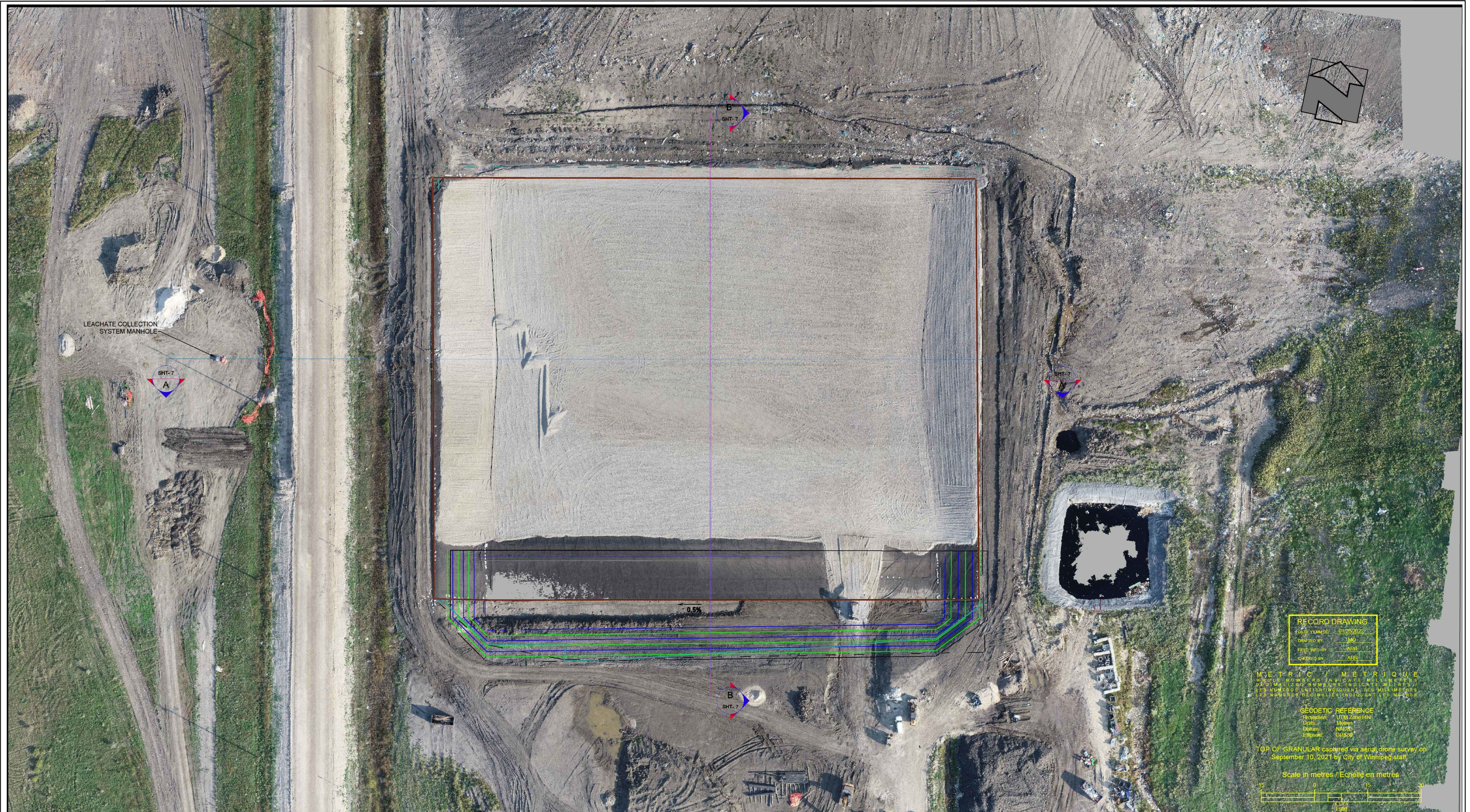
B.M.	SWS GOP N: 5 513 301.225	E: 629 498.188	
ELEV.	234.093		
CONSTRUCTION COMPLETION DATE: September 28, 2021			
NO.	REVISIONS	DATE	BY
4	RECORD DRAWING	01/26/2022	ARR
3	ISSUED FOR CONSTRUCTION	05/10/2021	ARR
2	ISSUED FOR TENDER	02/18/2021	ARR
1	ISSUED FOR REGULATORY COMPLIANCE	02/17/2021	ARR

DESIGNED BY	ARR	CHECKED BY	ARR
DRAWN BY	MO	APPROVED BY	ARR
SCALE:	RELEASED FOR CONSTRUCTION		
HORIZONTAL:	1:500		
VERTICAL:			

THE CITY OF WINNIPEG / LA VILLE DE WINNIPEG
 WATER AND WASTE DEPARTMENT
 SOLID WASTE SERVICES

BRADY ROAD RESOURCE MANAGEMENT FACILITY (BRRMF)
 AREA A CONSTRUCTION - CELL 32
 LINER SYSTEM (TOP OF RE-COMPACTED CLAY/HDPE)

SHEET-5 OF 15
 CITY DRAWING NUMBER **C3002**

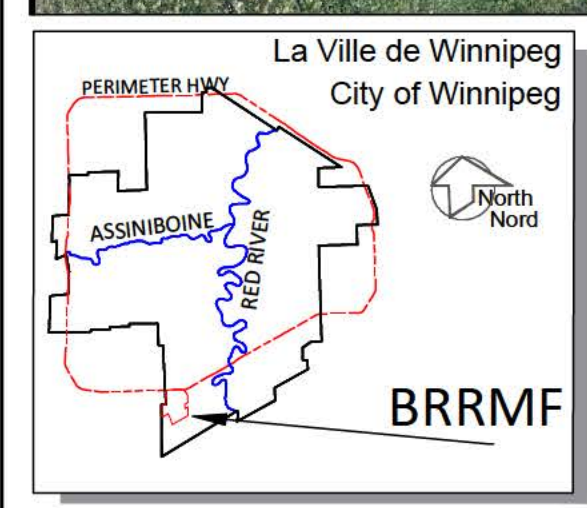


RECORD DRAWING
 Date: 01/29/2022
 Drawn by: MO
 Checked by: ARR
 Created by: JARR

METRIC / MÉTRIQUE
 DIMENSION NUMBERS IN PARENTHESIS ARE IN MILLIMETERS
 LES NUMÉRIQUES EN PARENTHÈSES SONT EN MILLIMÈTRES
 LES NUMÉRIQUES INDIVIDUELLES SONT EN MÈTRES

GEODETTIC REFERENCE
 Projection: UTM ZONE 18N
 Unit: Meter
 Datum: NAD83
 Ellipsoid: GRS80

TOP OF GRANULAR captured via aerial drone survey on September 10, 2021 by City of Winnipeg staff.



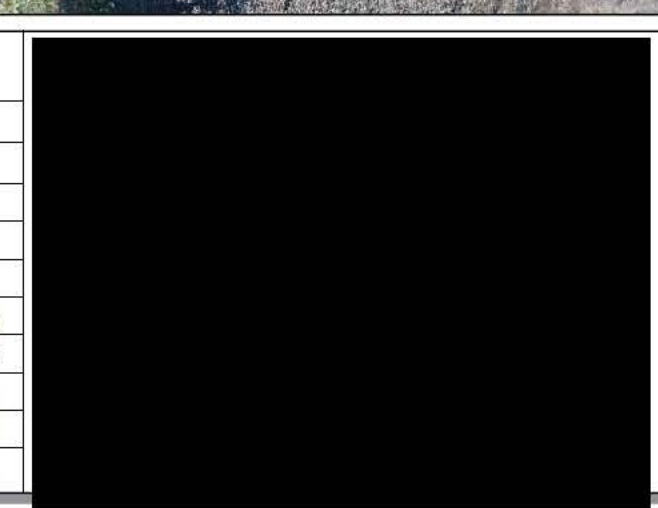
LEGEND/LEGENDE

233.00 PROPOSED MAJOR CONTOUR	PERIMETER DITCH	LEACHATE COLLECTION HEADER
PROPOSED MINOR CONTOUR	LIMIT OF WASTE	EXISTING AIR LINE
EXISTING MAJOR CONTOUR	LANDFILL ACCESS ROAD	PERIMETER BERM
EXISTING MINOR CONTOUR	ANCHOR TRENCH	
TOE OF SLOPE		
LIMIT OF CONSTRUCTION		

NOTES:

- EXCAVATION CONTOURS ARE AT 0.5 METRE INTERVALS.
- CONTOURS REPRESENT BASE ELEVATION.
- ALL ELEVATION ARE REFERENCED TO GEODETTIC DATUM.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS.

B.M.	SWS GCP N: 5 513 301 225	E: 629 498 188
ELEV.	234.093	
CONSTRUCTION COMPLETION DATE:	September 28, 2021	
NO.	REVISIONS	DATE
4	RECORD DRAWING	01/29/2022
3	ISSUED FOR CONSTRUCTION	05/10/2021
2	ISSUED FOR TENDER	02/18/2021
1	ISSUED FOR REGULATORY COMPLIANCE	02/11/2021
	BY	

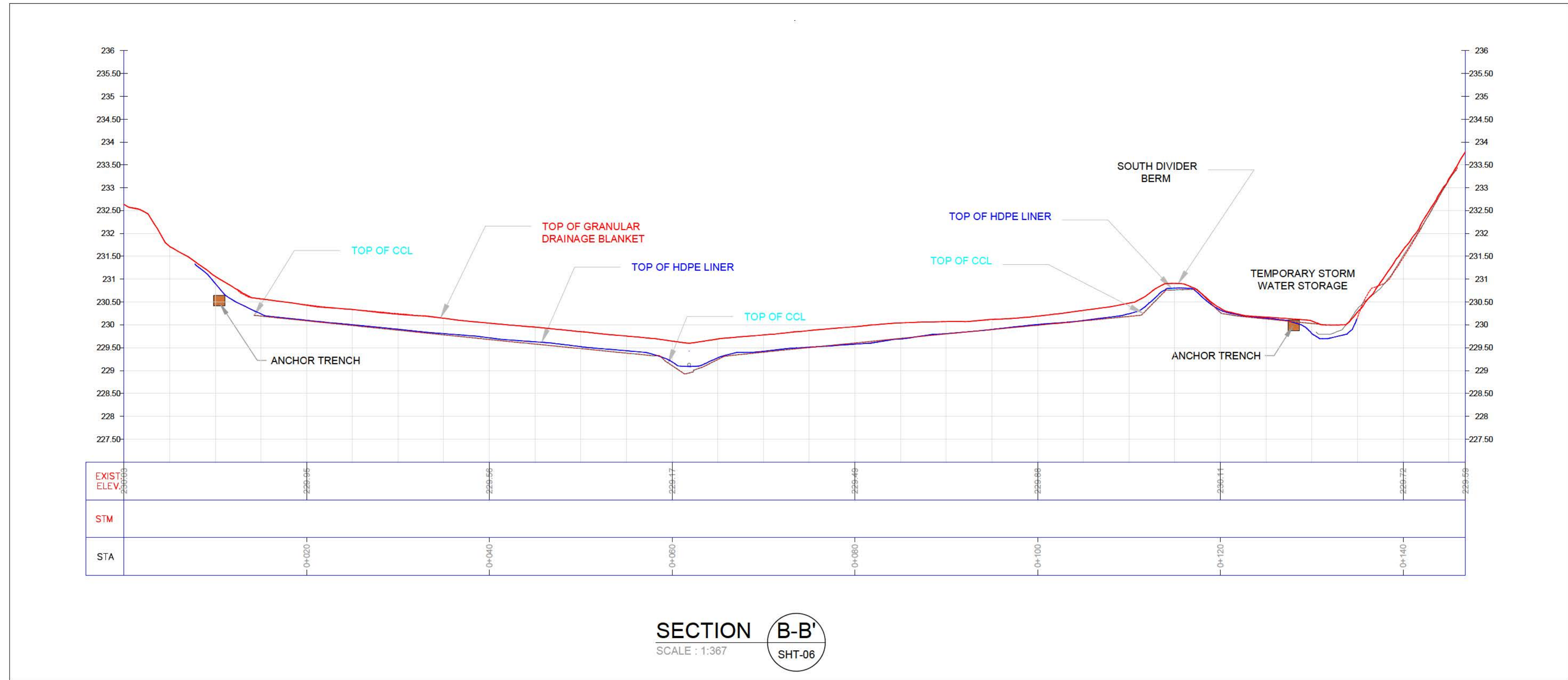
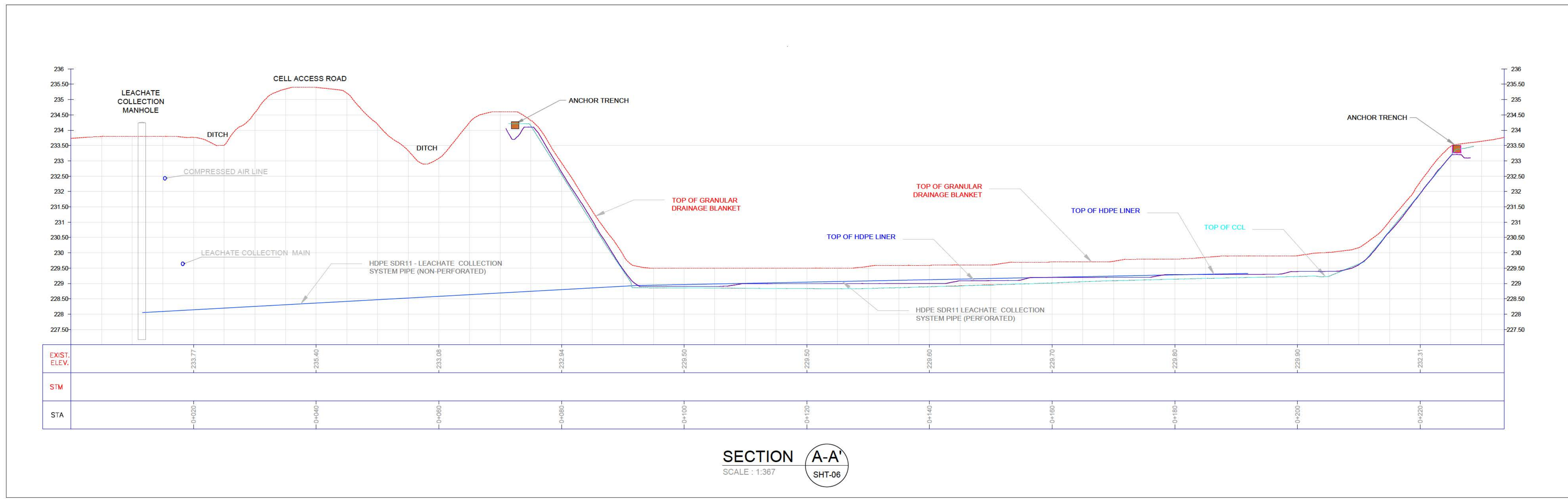


THE CITY OF WINNIPEG / LA VILLE DE WINNIPEG
 WATER AND WASTE DEPARTMENT
 SOLID WASTE SERVICES

BRADY ROAD RESOURCE MANAGEMENT FACILITY (BRRMF)
 CONSTRUCTION - CELL 33
 LEACHATE COLLECTION SYSTEM (TOP OF GRANULAR)

SHEET-6 OF 15
 CITY DRAWING NUMBER **C3003**

DESIGNED BY: ARR	CHECKED BY: ARR
DRAWN BY: MO	APPROVED BY: ARR
SCALE: HORIZONTAL 1:500	RELEASED FOR CONSTRUCTION
VERTICAL	



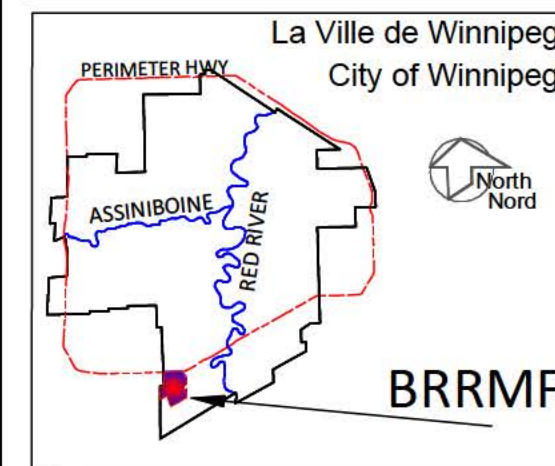
RECORD DRAWING	
DATE YY MM DD	01/26/2022
DRAFTED BY	MO
FIELD NFO BY	ARR
CHECKED BY	ARR

WARNING

1. NOTIFY THE LANDFILL SUPERVISOR OF THE PROPOSED LOCATION OF EXCAVATION.
2. TAKE PRECAUTION TO AVOID DAMAGE TO LEACHATE AND GAS COLLECTION.
3. TAKE PRECAUTION TO AVOID DAMAGE TO EXISTING LINER SYSTEMS.

METRIC / MÉTRIQUE
WHOLE NUMBERS INDICATE MILLIMETERS
DECIMALIZED NUMBERS INDICATE METRES /
LES NUMÉROS ENTIERS INDIQUENT LES MILLIMÈTRES
LES NUMÉROS DÉCIMALISÉS INDIQUENT LES MÈTRES

GEODETTIC REFERENCE
Projection: UTM Zone14N
Units: Metres
Datum: NAD83
Ellipsoid: GRS80



LEGEND/LEGENDE

	COMPACTED CLAY COVER		PER METER BERM
	ANCHOR TRENCH		DRONE SURVEY AUGUST 13, 2021
	LIMIT OF EXCAVATION		PROFILE DIGITAL SURFACE MODEL (SEPT. 27, 2021)
	ANCHOR TRENCH		TOP OF CCL
	Roadway access		

NOTES:

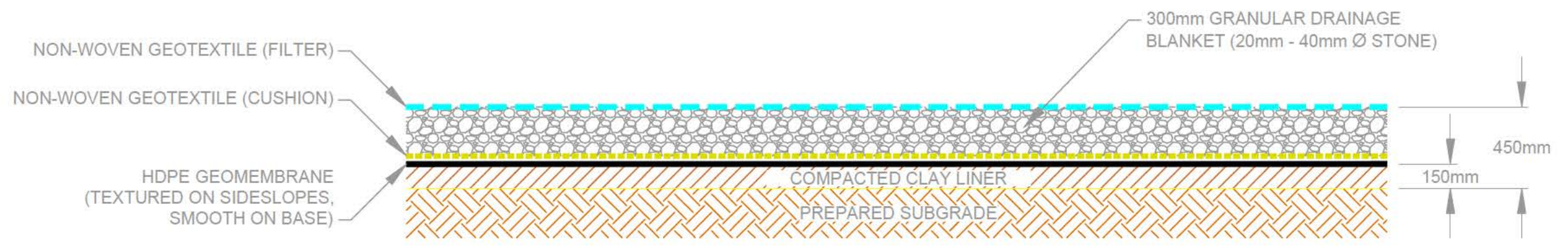
1. EXCAVATION CONTOURS ARE AT 0.5 METRE INTERVALS.
2. CONTOURS REPRESENT BASE ELEVATION.
3. ALL ELEVATION ARE REFERENCED TO GEODETTIC DATUM.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS.

B.M.	SWS GCP N: 5 513 301 225	E: 629 498 188	
ELEV.	234.093		
CONSTRUCTION COMPLETION DATE: September 28, 2021			
NO.	REVISIONS	DATE	BY
4	RECORD DRAWING	01/26/2022	ARR
3	ISSUED FOR CONSTRUCTION	05/10/2021	ARR
2	ISSUED FOR TENDER	02/18/2021	ARR
1	ISSUED FOR REGULATORY COMPLIANCE	02/17/2021	ARR

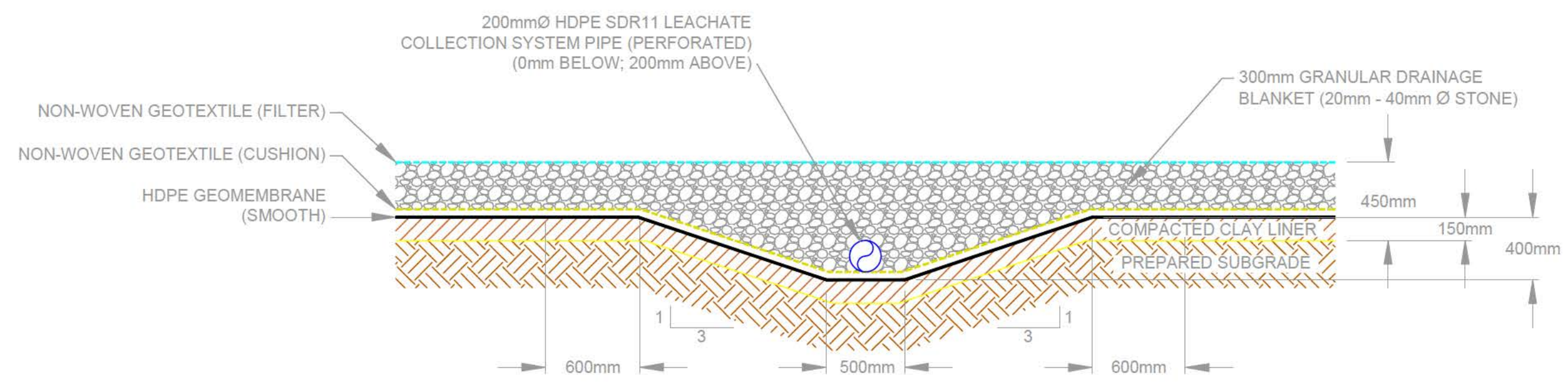


THE CITY OF WINNIPEG / LA VILLE DE WINNIPEG
WATER AND WASTE DEPARTMENT
SOLID WASTE SERVICES

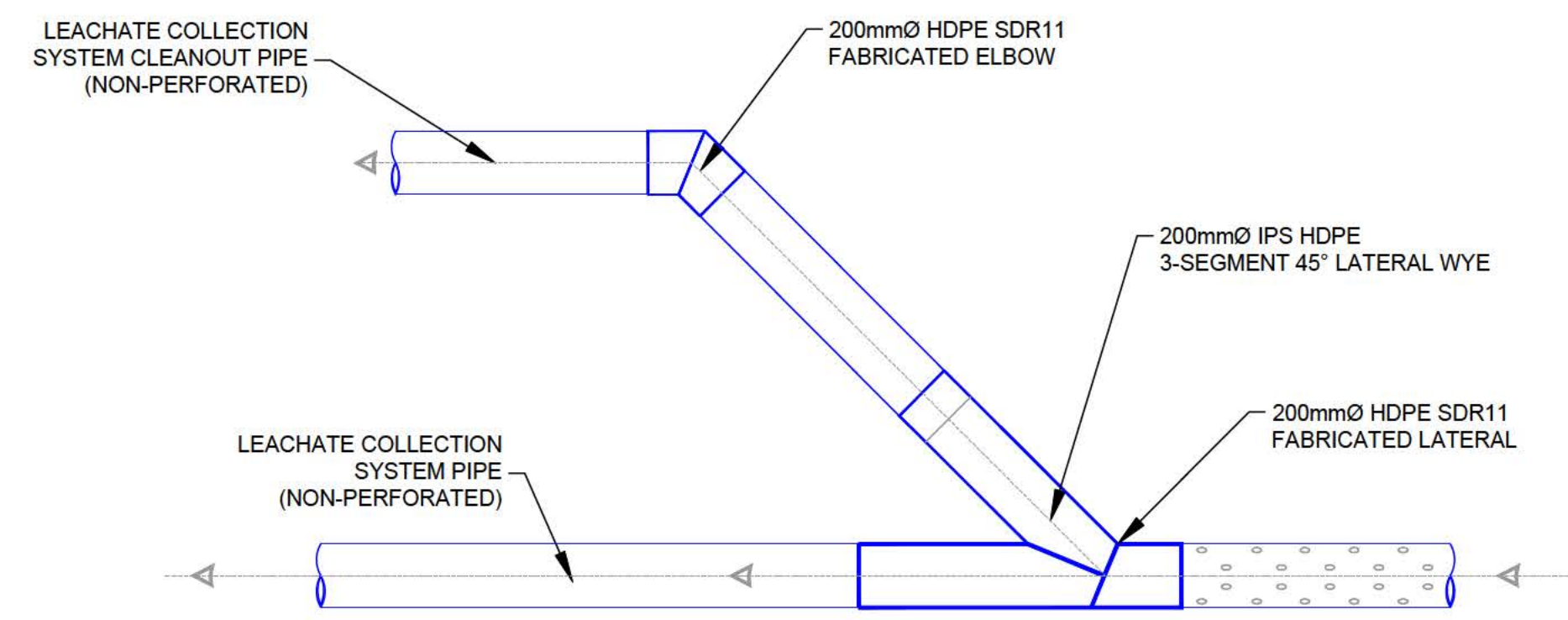
DESIGNED BY: ARR	CHECKED BY: ARR	BRADY ROAD RESOURCE MANAGEMENT FACILITY (BRRMF)	SHEET-7
DRAWN BY: MO	APPROVED BY:		
SCALE: AS SHOWN	RELEASED FOR CONSTRUCTION	AREA A CONSTRUCTION - CELL 33	CITY DRAWING NUMBER
		CROSS-SECTIONS	C3004



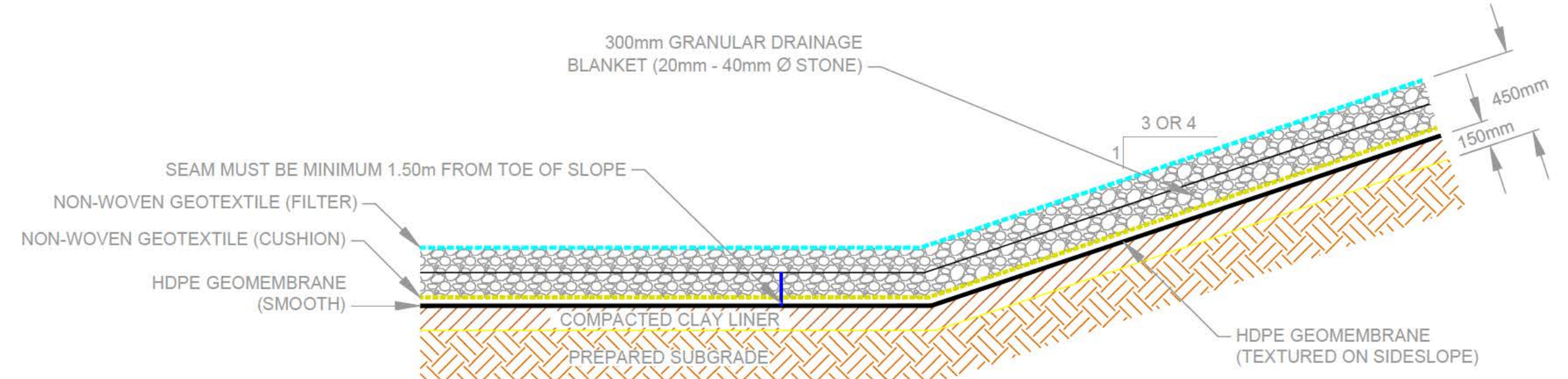
DETAIL 1 LINER SYSTEM
1:30 SHT-05



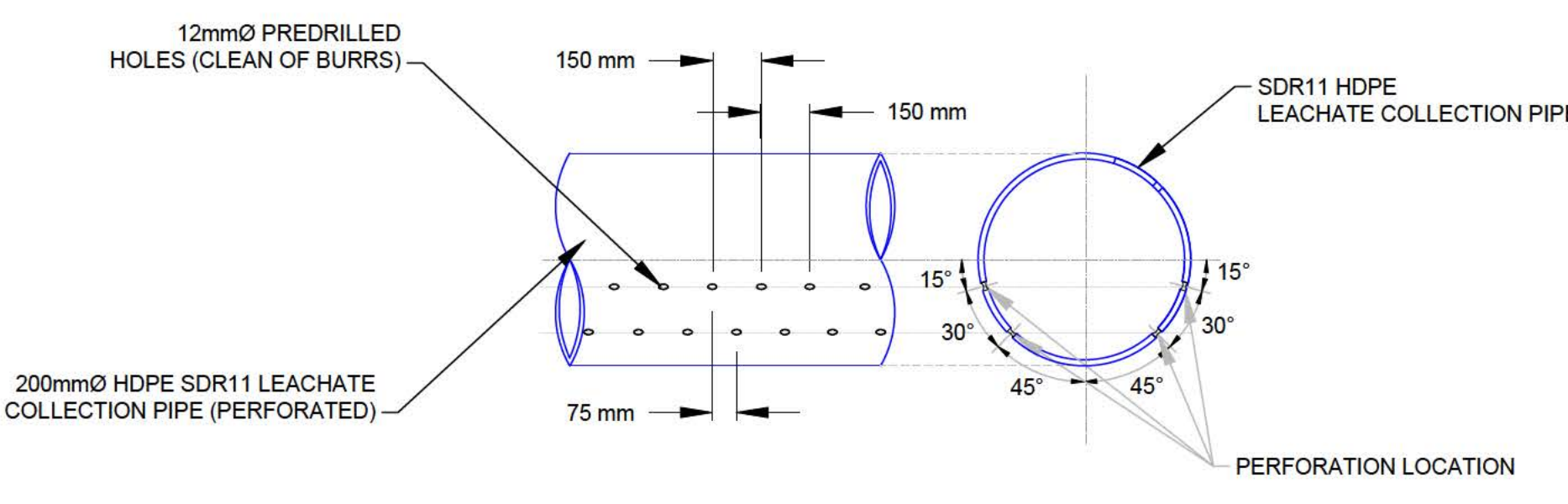
DETAIL 2 LEACHATE COLLECTION SYSTEM PIPE AND SWALE (TYPICAL)
1:30 SHT-05



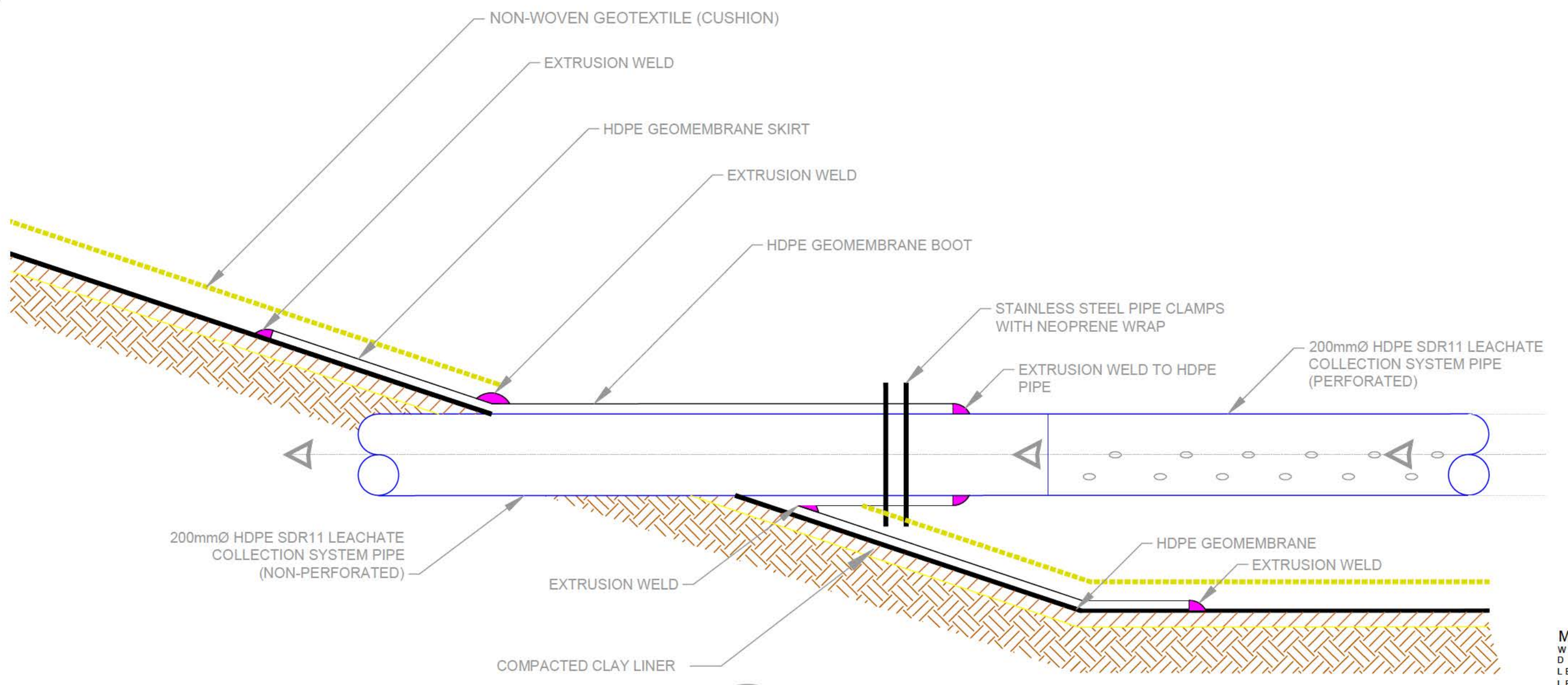
DETAIL 5 LEACHATE COLLECTION SYSTEM CLEANOUT RISER PIPE TO LEACHATE COLLECTION SYSTEM MANHOLE (IN TRENCH)
1:20 SHT-09



DETAIL 3 LINER SYSTEM (TOE OF SLOPE)
1:30 SHT-05



DETAIL 4 LEACHATE COLLECTION SYSTEM PIPE PERFORATIONS
NTS SHT-09

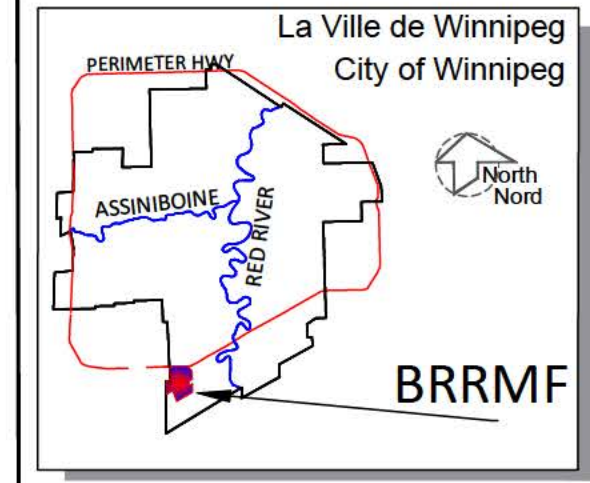


DETAIL 6 HDPE GEOMEMBRANE BOOT
NTS SHT-09

RECORD DRAWING	
DATE: YYMMDD	01/28/2022
DRAFTED BY	MO
FIELD INFO BY	ARR
CHECKED BY	ARR

METRIC / MÉTRIQUE
WHOLE NUMBERS INDICATE MILLIMETERS
DECIMALIZED NUMBERS INDICATE METRES
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LES NUMÉROS DÉCIMALIÉS INDICENT LES MÈTRES

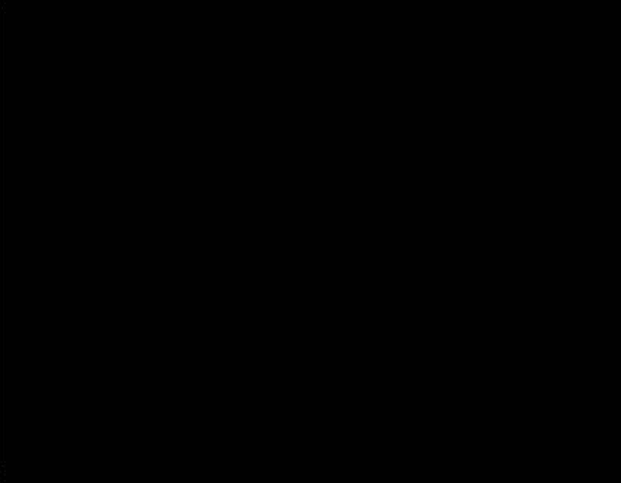
GEODETTIC REFERENCE
Projection: UTM Zone14N
Units: Metres
Datum: NAD83
Ellipsoid: GRS80



LEGEND/LEGENDE	
	COMPACTED CLAY LINER
	GRANULAR DRAINAGE
	COMPACTED BACKFILL
	COMPACTED NATIVE SUBGRADE MATERIAL
	HDPE GEOMEMBRANE (SMOOTH)
	NON-WOVEN GEOTEXTILE (FILTER)
	NON-WOVEN GEOTEXTILE (CUSHION)

- NOTES:
- EXCAVATION CONTOURS ARE AT 0.5 METRE INTERVALS.
 - CONTOURS REPRESENT BASE ELEVATION.
 - ALL ELEVATIONS ARE REFERENCED TO GEODETTIC DATUM.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS.

B.M.	SWS GCP N: 5 513 301 225	E: 629 498 188	
ELEV.	234.905		
CONSTRUCTION COMPLETION DATE: September 28, 2021			
NO.	REVISIONS	DATE	BY
4	RECORD DRAWING	01/26/2022	ARR
3	ISSUED FOR CONSTRUCTION	05/10/2021	ARR
2	ISSUED FOR TENDER	02/18/2021	ARR
1	ISSUED FOR REGULATORY COMPLIANCE	02/17/2021	ARR

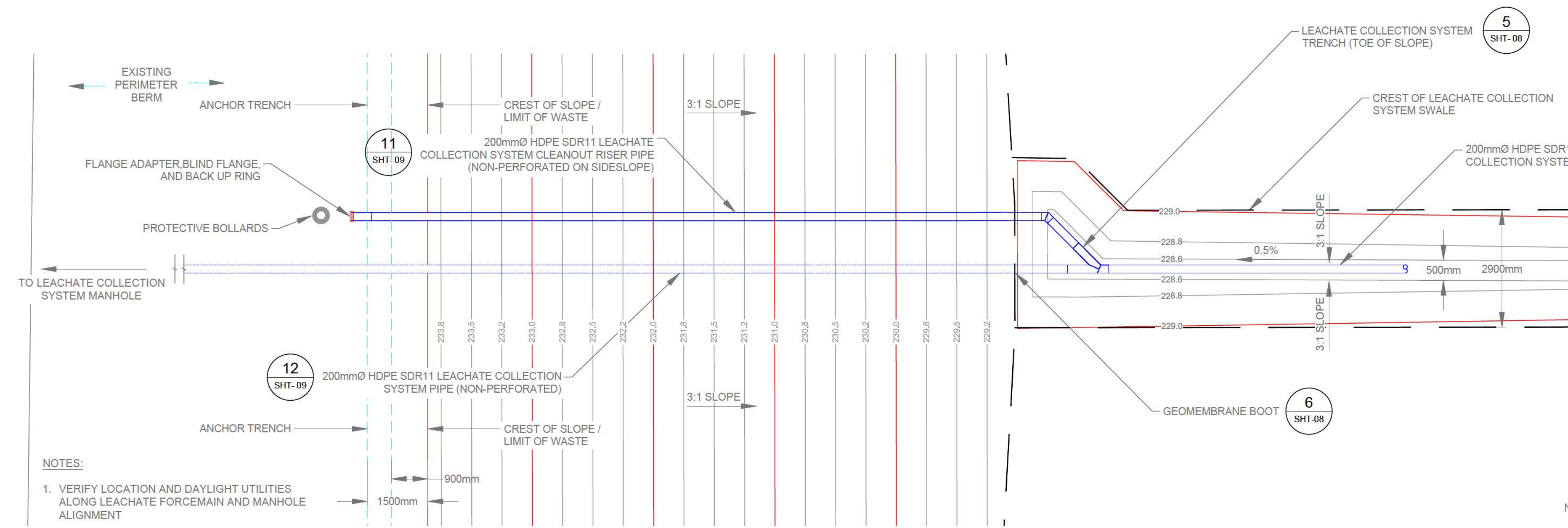


THE CITY OF WINNIPEG / LA VILLE DE WINNIPEG
WATER AND WASTE DEPARTMENT
SOLID WASTE SERVICES

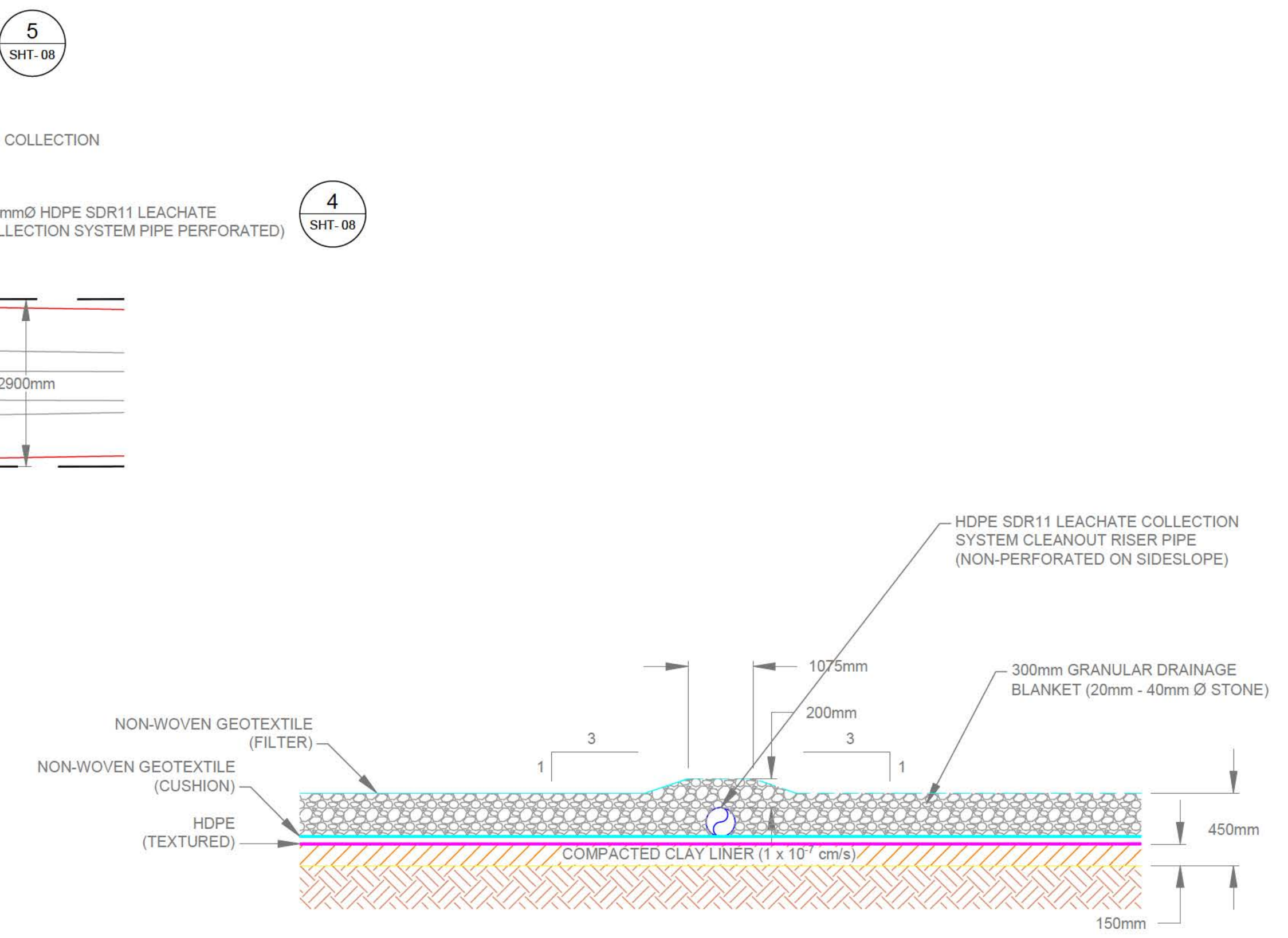
DESIGNED BY: ARR CHECKED BY: ARR
DRAWN BY: MO APPROVED BY: ARR
SCALE: HORIZONTAL AS NOTED, VERTICAL AS NOTED
RELEASED FOR CONSTRUCTION

BRADY ROAD RESOURCE MANAGEMENT FACILITY (BRRMF)
AREA A CONSTRUCTION - CELL 33
LINER AND LEACHATE COLLECTION SYSTEM DETAILS

SHEET - 8 OF 15
CITY DRAW NO NUMBER: C3005

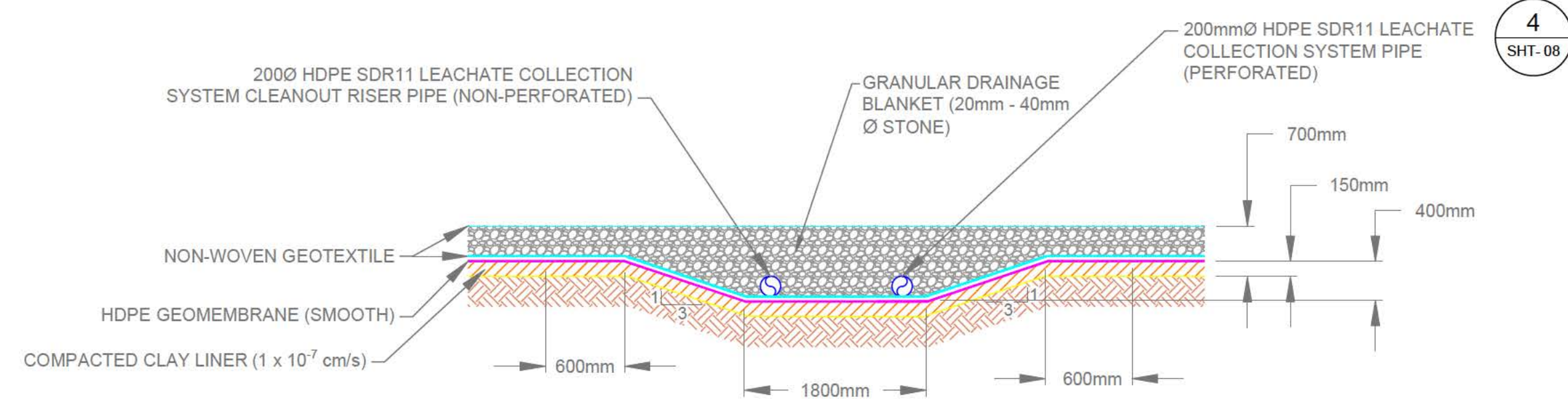


DETAIL 8 LEACHATE COLLECTION SYSTEM (TOE OF SLOPE)
1:50

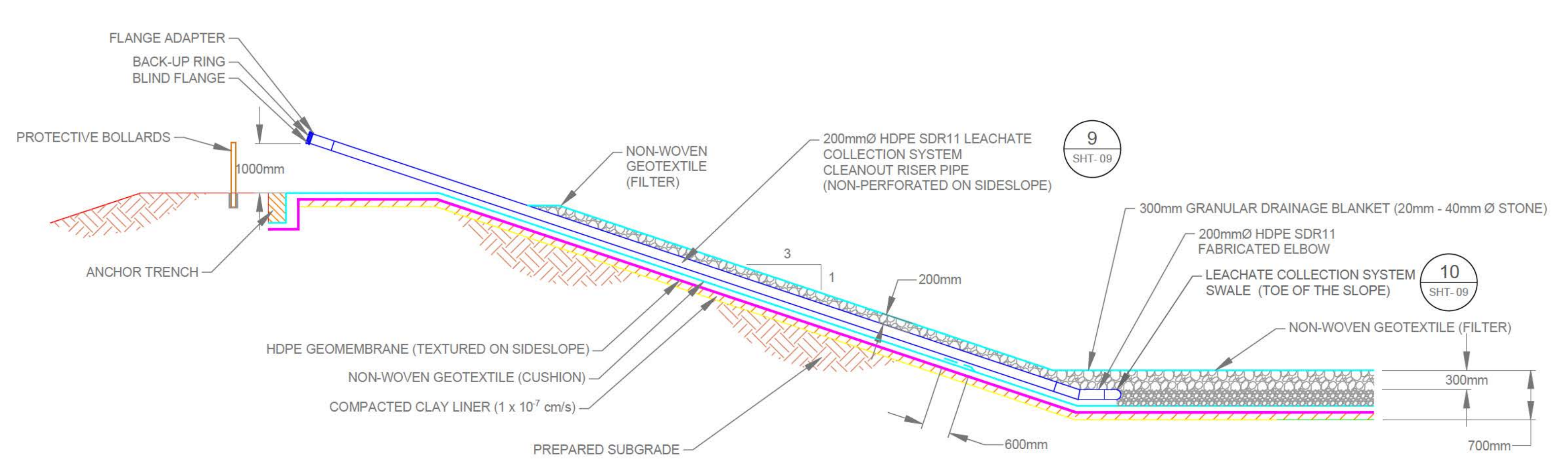


DETAIL 9 LEACHATE COLLECTION SYSTEM CLEANOUT RISER PIPE ON SIDESLOPE
1:30

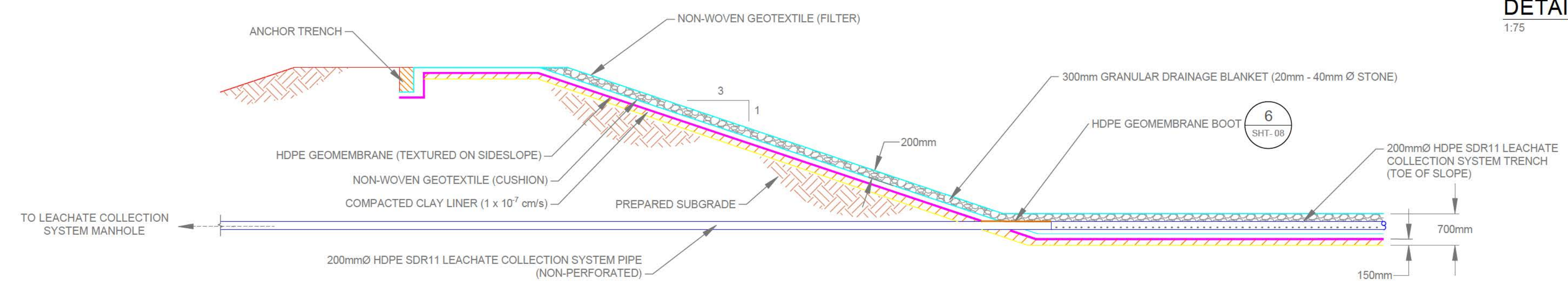
NOTES:
1. VERIFY LOCATION AND DAYLIGHT UTILITIES ALONG LEACHATE FORCEMAIN AND MANHOLE ALIGNMENT



DETAIL 10 LEACHATE COLLECTION SYSTEM SWALE (TOE OF SLOPE)
1:50



DETAIL 11 LEACHATE COLLECTION SYSTEM CLEANOUT RISER PIPE
1:75

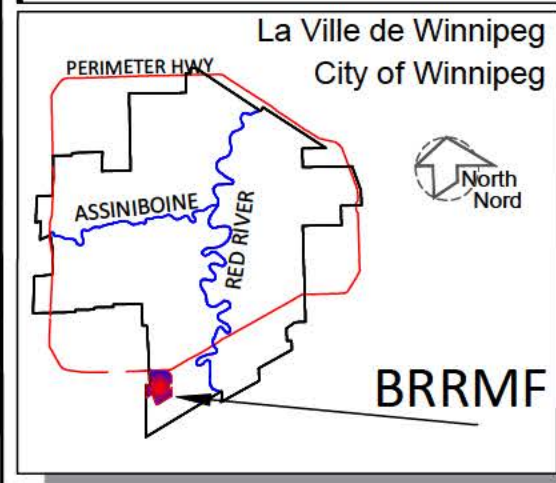


DETAIL 12 LEACHATE COLLECTION SYSTEM PIPE NON-PERFORATED
1:75

RECORD DRAWING	
DATE Y/M/D	01/28/2022
DRAWN BY	MO
FIELD INFO BY	ARR
CHECKED BY	ARR

METRIC / MÉTRIQUE
WHOLE NUMBERS INDICATE MILLIMETERS
DECIMALIZED NUMBERS INDICATE METRES /
LES NUMÉROS ENTIERS INDICENT LES MILLIMÈTRES
LES NUMÉROS DÉCIMALISÉS INDICENT LES MÈTRES

GEODETTIC REFERENCE
Projection: UTM Zone 14N
Units: Metres
Datum: NAD83
Ellipsoid: GRS80



LEGEND/LEGENDE	
	GRANULAR DRAINAGE
	COMPACTED CLAY LINER
	COMPACTED BACKFILL
	HDPE GEOMEMBRANE (SMOOTH)
	NON-WOVEN GEOTEXTILE (FILTER)
	NON-WOVEN GEOTEXTILE (CUSHION)
	COMPACTED NATIVE SUBGRADE MATERIAL

NOTES:
1. EXCAVATION CONTOURS ARE AT 0.5 METRE INTERVALS.
2. CONTOURS REPRESENT BASE ELEVATION.
3. ALL ELEVATION ARE REFERENCED TO GEODETTIC DATUM.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS.

B.M.	SWS GCP N: 5 513 301.225	E: 629 498.188	
ELEV.	234.093		
CONSTRUCTION COMPLETION DATE: September 28, 2021			
NO.	REVISIONS	DATE	BY
4	RECORD DRAWING	01/28/2022	ARR
3	ISSUED FOR CONSTRUCTION	05/10/2021	ARR
2	ISSUED FOR TENDER	02/18/2021	ARR
1	ISSUED FOR REGULATORY COMPLIANCE	02/17/2021	ARR

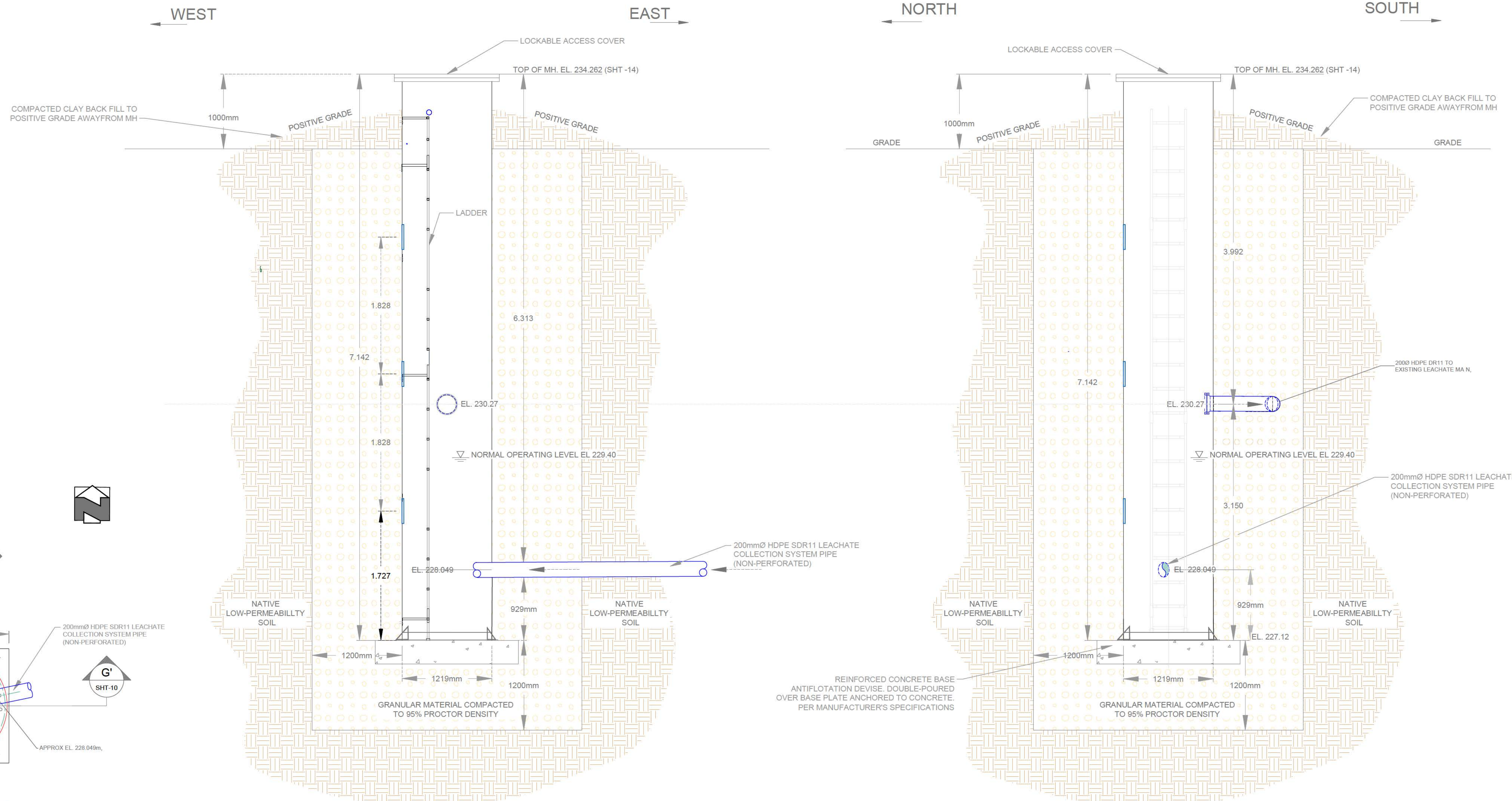
THE CITY OF WINNIPEG / LA VILLE DE WINNIPEG
WATER AND WASTE DEPARTMENT
SOLID WASTE SERVICES

DESIGNED BY: ARR
DRAWN BY: MO
SCALE: HORIZONTAL AS NOTED, VERTICAL AS NOTED

CHECKED BY: ARR
APPROVED BY: ARR
RELEASED FOR CONSTRUCTION

BRADY ROAD RESOURCE MANAGEMENT FACILITY (BRRMF)
CONSTRUCTION - CELL 33
LEACHATE COLLECTION SYSTEM TRENCH AND CLEANOUT RISER PIPE DETAILS

SHEET-9 OF 15
CITY DRAWING NUMBER: C3006

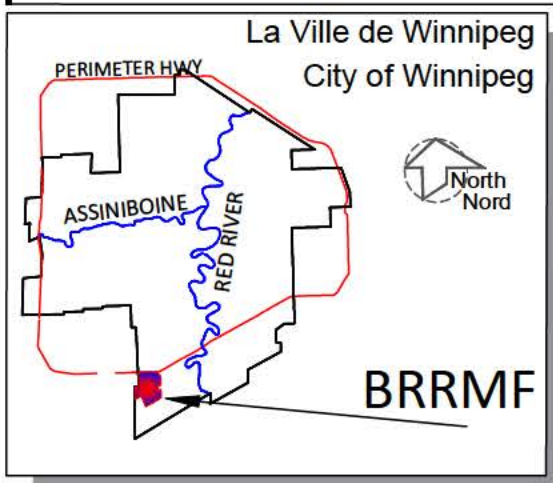


DETAIL 13 LEACHATE COLLECTION SYSTEM MANHOLE
SHT-05

RECORD DRAWING	
DATE: YYMMDD	01/26/2022
DRAFTED BY:	MO
FIELD INFO BY:	ARR
CHECKED BY:	ARR

METRIC / MÉTRIQUE
WHOLE NUMBERS INDICATE MILLIMETERS /
DECIMALIZED NUMBERS INDICATE MÈTRES /
LES NUMÉROS ENTIERS INDICQUENT LES MILLIMÈTRES /
LES NUMÉROS DÉCIMALIÉS INDICQUENT LES MÈTRES

GEODETIC REFERENCE
Projection: UTM Zone14N
Units: Metres
Datum: NAD83
Ellipsoid: GRS80



LEGEND/LEGENDE	
	REINFORCED CONCRETE
	COMPACTED NATIVE SUBGRADE MATERIAL
	GRANULAR MATERIAL COMPACTED
	COMPACTED BACKFILL

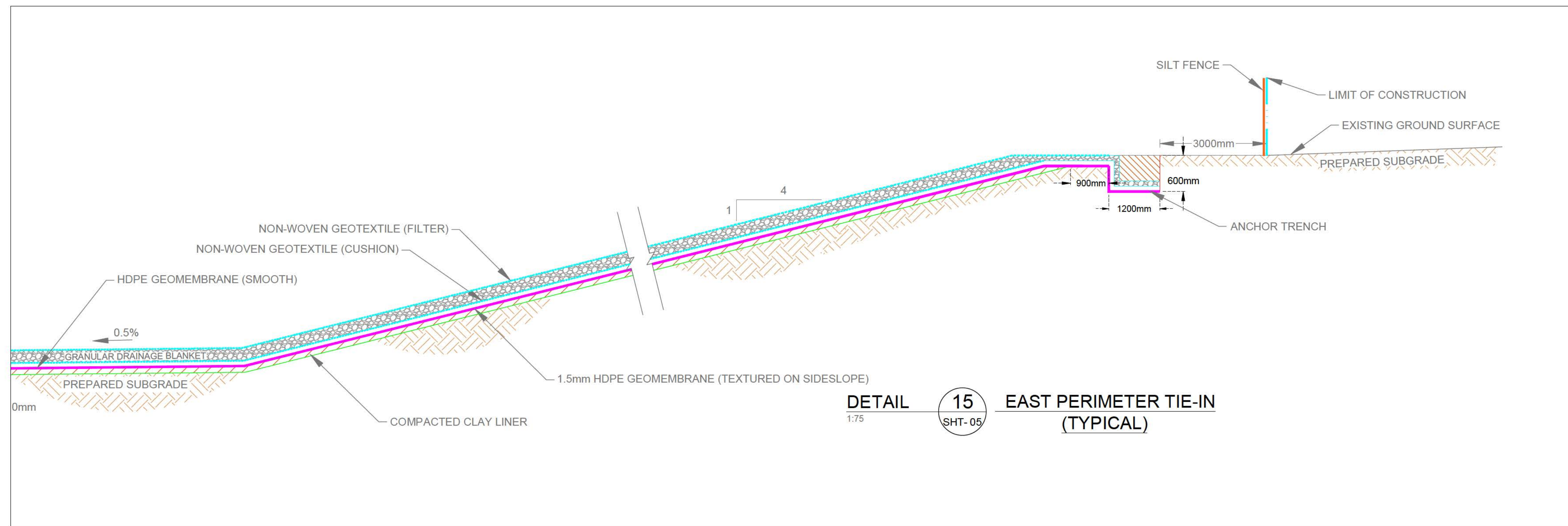
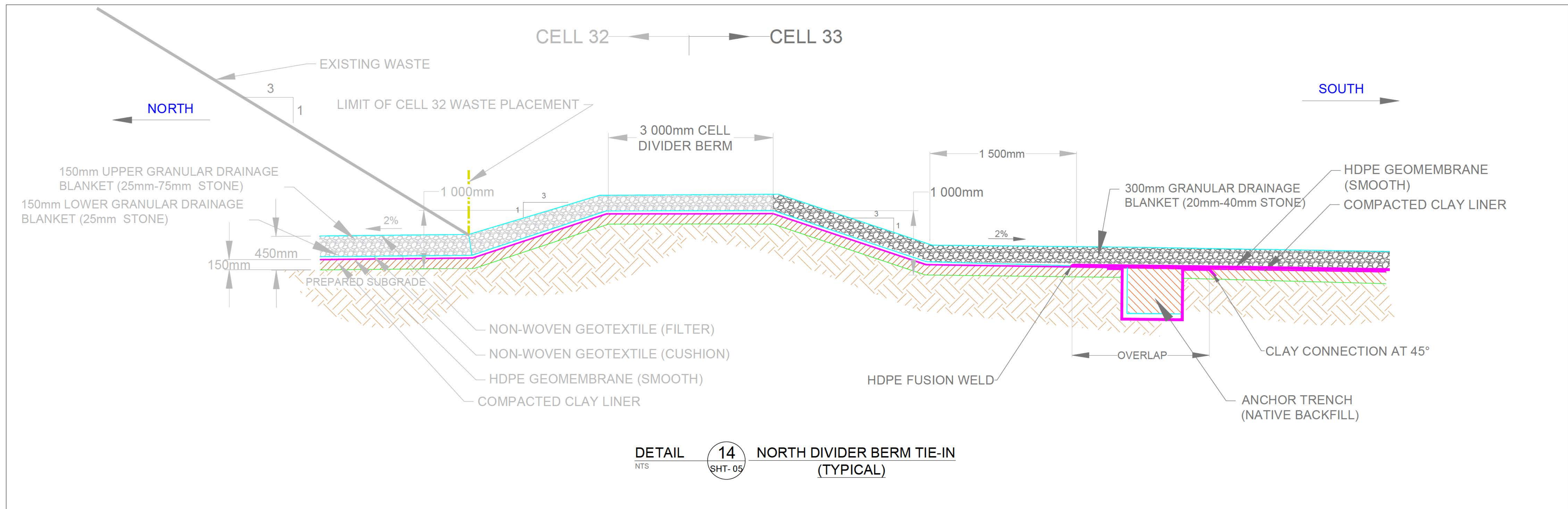
NOTES:			
1. MANHOLE NOT SUITED FOR TRAFFIC LOADS.			
2. PUMPING SYSTEMS NOT SHOWN FOR CLARITY. LEACHATE PUMP AND INTERNAL PIPING DETAILS PROVIDED ON MECHANICAL DRAWINGS AND VERIFY LOCATION AND DAYLIGHT UTILITIES ALONG LEACHATE FOREMAN AND MANHOLE ALIGNMENT.			
3. ALL PIPE ELEVATION (ESP. MANHOLE CONNECTIONS) ARE APPROXIMATE AND TO BE CONFIRMED BY THE CONTRACTOR DURING CONSTRUCTION.			

B.M.	SWS GCP	N: 5 513 301 225	E: 629 498 188
ELEV.		234 093	
CONSTRUCTION COMPLETION DATE: September 28, 2021			
NO.	REVISIONS	DATE	BY
4	RECORD DRAWING	01/26/2022	ARR
3	ISSUED FOR CONSTRUCTION	05/10/2021	ARR
2	ISSUED FOR TENDER	02/18/2021	ARR
1	ISSUED FOR REGULATORY COMPLIANCE	02/17/2021	ARR

THE CITY OF WINNIPEG / LA VILLE DE WINNIPEG
WATER AND WASTE DEPARTMENT
SOLID WASTE SERVICES

DESIGNED BY: ARR	CHECKED BY: ARR	BRADY ROAD RESOURCE MANAGEMENT FACILITY (BRRMF) CONSTRUCTION -CELL 33	SHEET 10 OF 15 CITY DRAWING NUMBER C3007
DRAWN BY: MO	APPROVED BY: ARR		
SCALE: HORIZONTAL	RELEASED FOR CONSTRUCTION	LEACHATE COLLECTION SYSTEM TRENCH AND CLEANOUT RISER PIPE DETAILS II	

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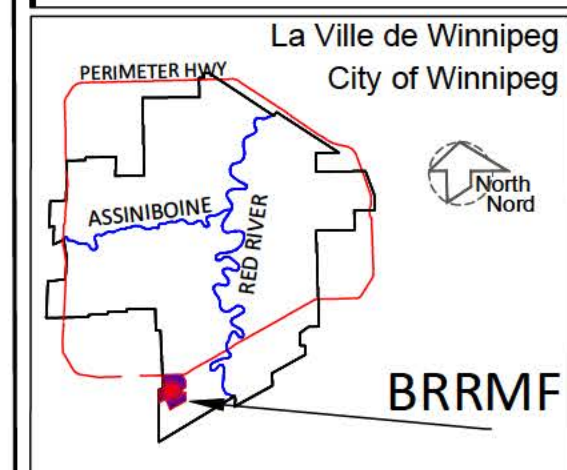


RECORD DRAWING	
DATE	YYMMDD 01/26/2022
DRAFTED BY	MO
FIELD INFO BY	ARR
CHECKED BY	ARR

- WARNING**
- NOTIFY THE LANDFILL SUPERVISOR OF THE PROPOSED LOCATION OF EXCAVATION.
 - TAKE PRECAUTION TO AVOID DAMAGE TO LEACHATE AND GAS COLLECTION INSTALLATIONS.
 - TAKE PRECAUTION TO AVOID DAMAGE TO EXISTING LINER SYSTEMS.

M E T R I C / M É T R I Q U E
WHOLE NUMBERS INDICATE MILLIMETERS
DECIMALIZED NUMBERS INDICATE METRES /
LES NUMÉROS ENTIERS INDICENT LES MILLIMÈTRES
LES NUMÉROS DÉCIMALISÉS INDICENT LES MÈTRES

GEODETTIC REFERENCE
Projection: UTM Zone14N
Units: Metres
Datum: NAD83
Ellipsoid: GRS80



LEGEND/LEGENDE					
	COMPACTED BEDDING		COMPACTED NATIVE-SUBGRADE MATERIAL		HDPE GEOMEMBRANE (SMOOTH)
	COMPACTED CLAY LINER		COMPACTED BACKFILL		NON-WOVEN GEOTEXTILE (FILTER)
	GRANULAR DRAINAGE				NON-WOVEN GEOTEXTILE (CUSHION)

- NOTES:**
- EXCAVATION CONTOURS ARE AT 0.5 METRE INTERVALS.
 - CONTOURS REPRESENT BASE ELEVATION.
 - ALL ELEVATION ARE REFERENCED TO GEODETTIC DATUM.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS.

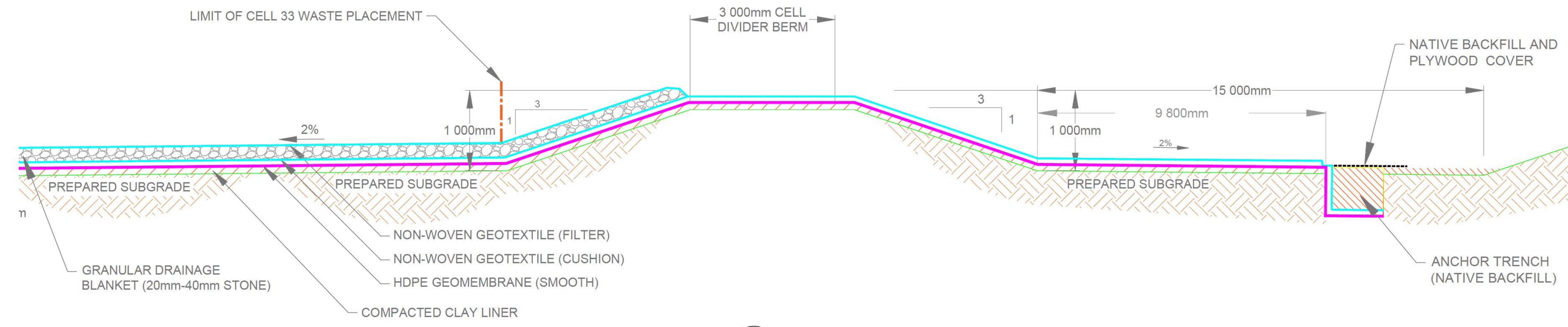
B.M.	SHS GCP N: 5 513 301 225	E: 629 498 188	
ELEV.	234.993		
CONSTRUCTION COMPLETION DATE: September 28, 2021			
NO.	REVISIONS	DATE	BY
4	RECORD DRAWING	01/26/2022	ARR
3	ISSUED FOR CONSTRUCTION	05/10/2021	ARR
2	ISSUED FOR TENDER	02/18/2021	ARR
1	ISSUED FOR REGULATORY COMPLIANCE	02/17/2021	ARR

THE CITY OF WINNIPEG / LA VILLE DE WINNIPEG
WATER AND WASTE DEPARTMENT
SOLID WASTE SERVICES

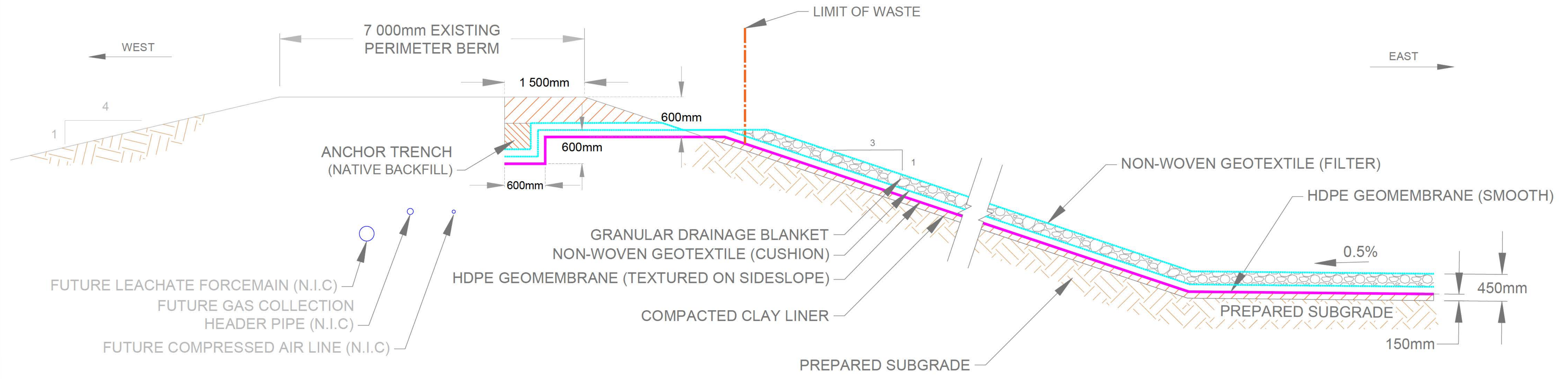
DESIGNED BY	ARR	CHECKED BY	ARR
DRAWN BY	MO	APPROVED BY	ARR
SCALE:	RELEASED FOR CONSTRUCTION		
HORIZONTAL:	AS NOTED		
VERTICAL:	AS NOTED		

BRADY ROAD RESOURCE MANAGEMENT FACILITY (BRRMF)
CONSTRUCTION-CELL 33
PERIMETER TIE-IN DETAILS I

SHEET 11 OF 15
CITY DRAWING NUMBER
C3008



DETAIL 16 SOUTH DIVIDER BERM TIE-IN (TYPICAL)
SHT-06



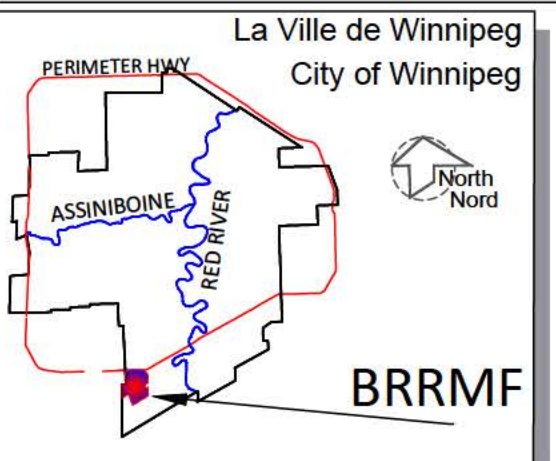
DETAIL 17 WEST PERIMETER TIE-IN (TYPICAL)
SHT-06

RECORD DRAWING			
DATE	YYMMDD	01/26/2022	
DRAFTED BY	MO		
FIELD INFO BY	ARR		
CHECKED BY	ARR		

- WARNING
1. NOTIFY THE LANDFILL SUPERVISOR OF THE PROPOSED LOCATION OF EXCAVATION.
 2. TAKE PRECAUTION TO AVOID DAMAGE TO LEACHATE AND GAS COLLECTION INSTALLATIONS.
 3. TAKE PRECAUTION TO AVOID DAMAGE TO EXISTING LINER SYSTEMS.

METRIC / MÉTRIQUE
WHOLE NUMBERS INDICATE MILLIMETERS
DECIMALIZED NUMBERS INDICATE METRES /
LES NUMÉROS ENTIERS INDIQUENT LES MILLIMÈTRES
LES NUMÉROS DÉCIMAUX INDIQUENT LES MÈTRES

GEODETTIC REFERENCE
Projection: UTM Zone 14N
Units: Metres
Datum: NAD83
Ellipsoid: GRS80



LEGEND/LEGENDE					
	COMPACTED CLAY LINER		COMPACTED NATIVE-SUBGRADE MATERIAL		HDPE GEOMEMBRANE (SMOOTH)
	GRANULAR DRAINAGE		COMPACTED BACKFILL		NON-WOVEN GEOTEXTILE (FILTER)
					NON-WOVEN GEOTEXTILE (CUSHION)

- NOTES:
1. EXCAVATION CONTOURS ARE AT 0.5 METRE INTERVALS.
 2. CONTOURS REPRESENT BASE ELEVATION.
 3. ALL ELEVATION ARE REFERENCED TO GEODETTIC DATUM.
 4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS.

B.M. ELEV.	SWS GCP N: 5 513 301.225	E: 629 498.188	234.093
CONSTRUCTION COMPLETION DATE: September 28, 2021			
NO.	REVISIONS	DATE	BY
4	RECORD DRAWING	01/26/2022	ARR
3	ISSUED FOR CONSTRUCTION	05/10/2021	ARR
2	ISSUED FOR TENDER	02/18/2021	ARR
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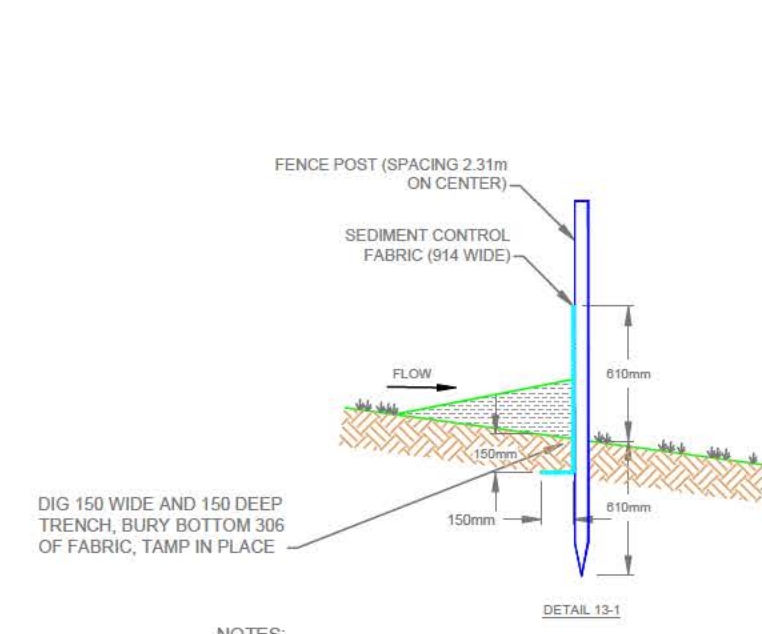
THE CITY OF WINNIPEG / LA VILLE DE WINNIPEG
WATER AND WASTE DEPARTMENT
SOLID WASTE SERVICES

BRADY ROAD RESOURCE MANAGEMENT FACILITY (BRRMF)
CONSTRUCTION-CELL 33
PERIMETER TIE-IN DETAILS II

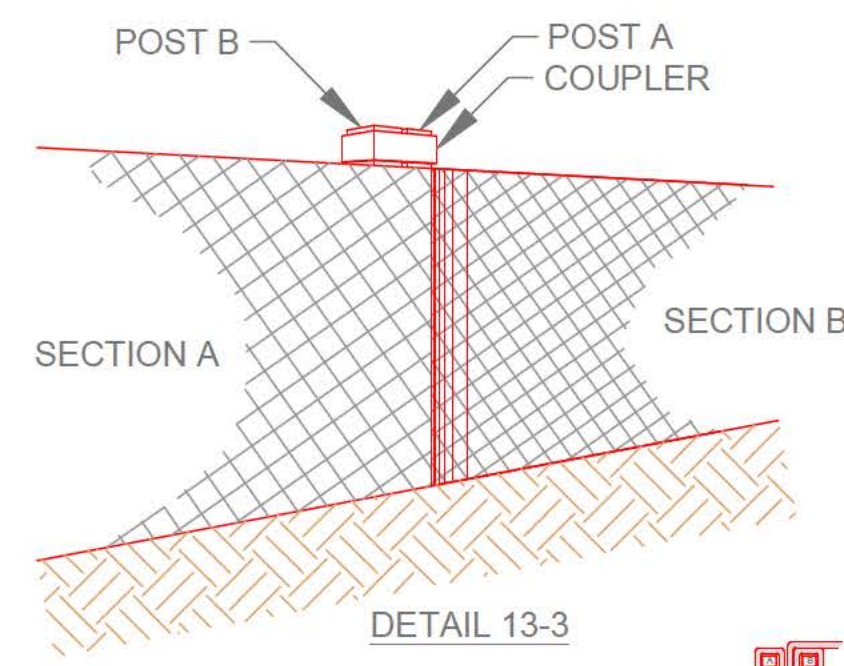
DESIGNED BY: ARR
DRAWN BY: MO
SCALE: HORIZONTAL: AS NOTED, VERTICAL: AS NOTED

CHECKED BY: ARR
APPROVED BY: ARR
RECORD DRAWING

SHEET 12 OF 15
CITY DRAWING NUMBER: C3009

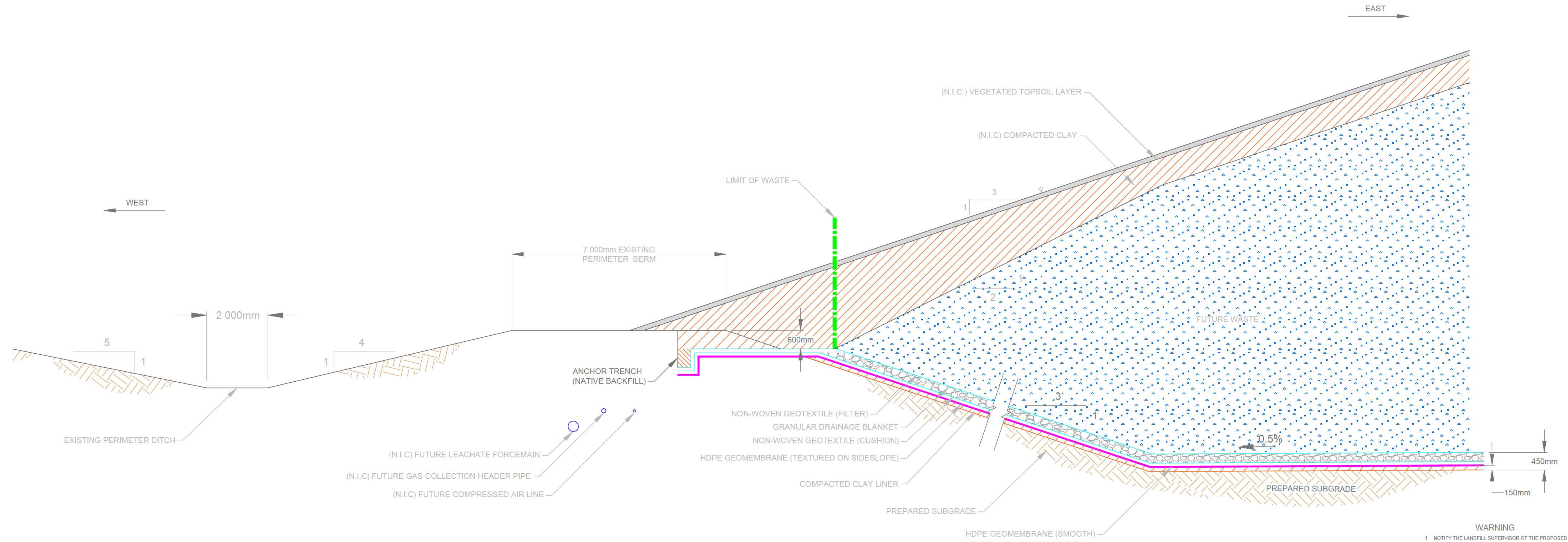


- NOTES:
- SILT FENCE HEIGHT TO BE 600mm ABOVE GROUND, CONSTRUCTED OF FABRIC WITH MINIMUM TENSILE STRENGTH OF 54.43 kg (TERRAFIX TERRAFENCE, OR APPROVED EQUIVALENT).
 - SILT FENCE TO HAVE FACTORY ATTACHED FENCE POSTS.



- INSTALLATION SEQUENCE:
- DIG A 150mm x 150mm TRENCH ALONG SILT FENCE LOCATIONS SHOWN
 - UNROLL SILT FENCE POSITIONING THE POSTS ON THE DOWNSTREAM SIDE.
 - DRIVE POSTS INTO THE GROUND AS SHOWN ON DETAIL 13-1.
 - LAY THE BOTTOM 3.7m OF FABRIC FLAP IN THE BOTTOM OF THE TRENCH, BACKFILL AND COMPACT.
 - ADJACENT SECTIONS OF THE SILT FENCE ARE JOINED AS SHOWN IN DETAIL 13-2. A COUPLER CAN BE USED TO SECURE ADJACENT POSTS AS SHOWN IN DETAIL 13-3.

DETAIL 18 SILT FENCE (TYPICAL)
NTS



DETAIL 19 WEST PERIMETER TIE-IN DETAIL (TYPICAL)
1:75

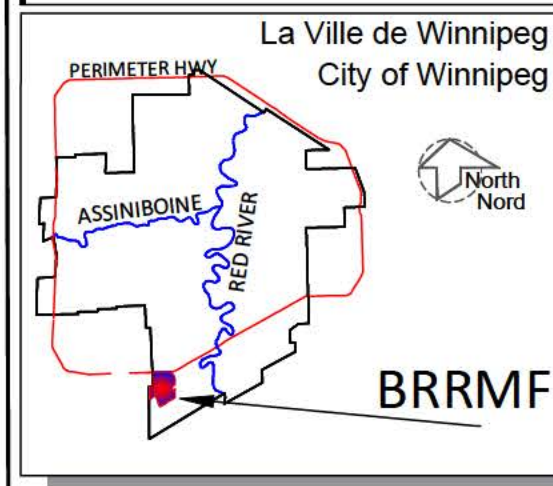
RECORD DRAWING	
DATE: YY/MM/DD	01/26/2022
DRAFTED BY:	MO
FIELD INFO BY:	ARR
CHECKED BY:	ARR

WARNING

- NOTIFY THE LANDFILL SUPERVISOR OF THE PROPOSED LOCATION OF EXCAVATION.
- TAKE PRECAUTION TO AVOID DAMAGE TO LEACHATE AND GAS COLLECTION INSTALLATIONS.
- TAKE PRECAUTION TO AVOID DAMAGE TO EXISTING LINER SYSTEMS.

METRIC / MÉTRIQUE

WHOLE NUMBERS INDICATE MILLIMETERS
DECIMALIZED NUMBERS INDICATE METRES /
LES NUMÉROS ENTIERS INDICENT LES MILLIMÈTRES
LES NUMÉROS DÉCIMAUX INDICENT LES MÈTRES



LEGEND/LEGENDE					
	GRANULAR DRAINAGE		COMPACTED BEDDING		HDPE GEOMEMBRANE (SMOOTH)
	COMPACTED NATIVE-SUBGRADE MATERIAL		COMPACTED CLAY LINER		NON-WOVEN GEOTEXTILE (FILTER)
	WASTE		COMPACTED BACKFILL		NON-WOVEN GEOTEXTILE (CUSHION)
			VEGETATED TOPSOIL		

NOTES:

- EXCAVATION CONTOURS ARE AT 0.5 METRE INTERVALS.
- CONTOURS REPRESENT BASE ELEVATION.
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- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS.

B.M.	SWS GCP N: 5 513 301 225 E: 629 498 188		
ELEV.	234.093		
CONSTRUCTION COMPLETION DATE: September 28, 2021			
NO.	REVISIONS	DATE	BY
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3	ISSUED FOR CONSTRUCTION	05/10/2021	ARR
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1	ISSUED FOR REGULATORY COMPLIANCE	02/17/2021	ARR

DESIGNED BY:	ARR	CHECKED BY:	ARR
DRAWN BY:	MO	APPROVED BY:	ARR
SCALE:	HORIZONTAL AS NOTED	RELEASED FOR CONSTRUCTION:	
	VERTICAL AS NOTED		

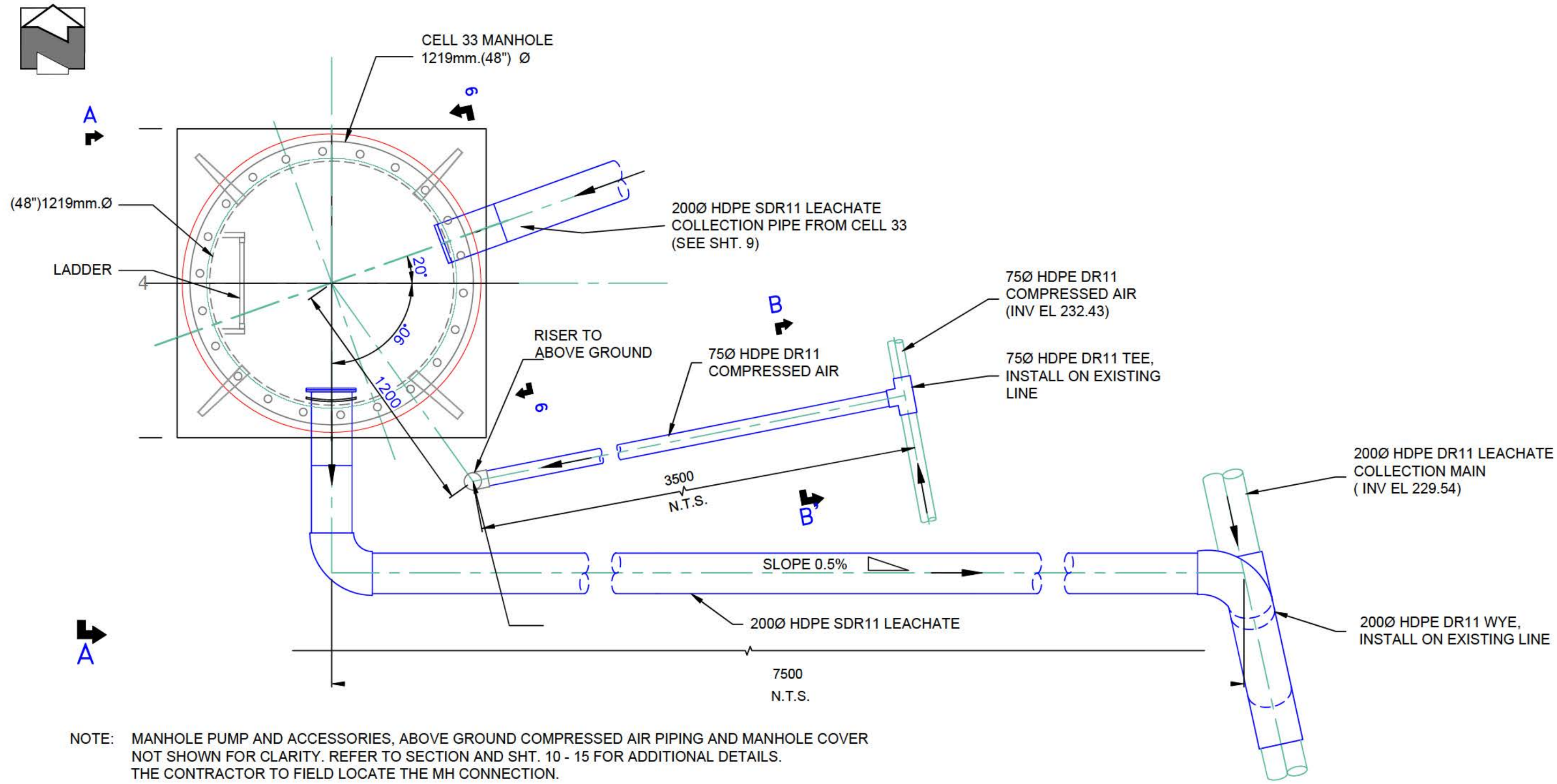
THE CITY OF WINNIPEG / LA VILLE DE WINNIPEG
WATER AND WASTE DEPARTMENT
SOLID WASTE SERVICES

BRADY ROAD RESOURCE MANAGEMENT FACILITY (BRRMF)
 AREA A CONSTRUCTION - CELL 33

MISCELLANEOUS DETAILS

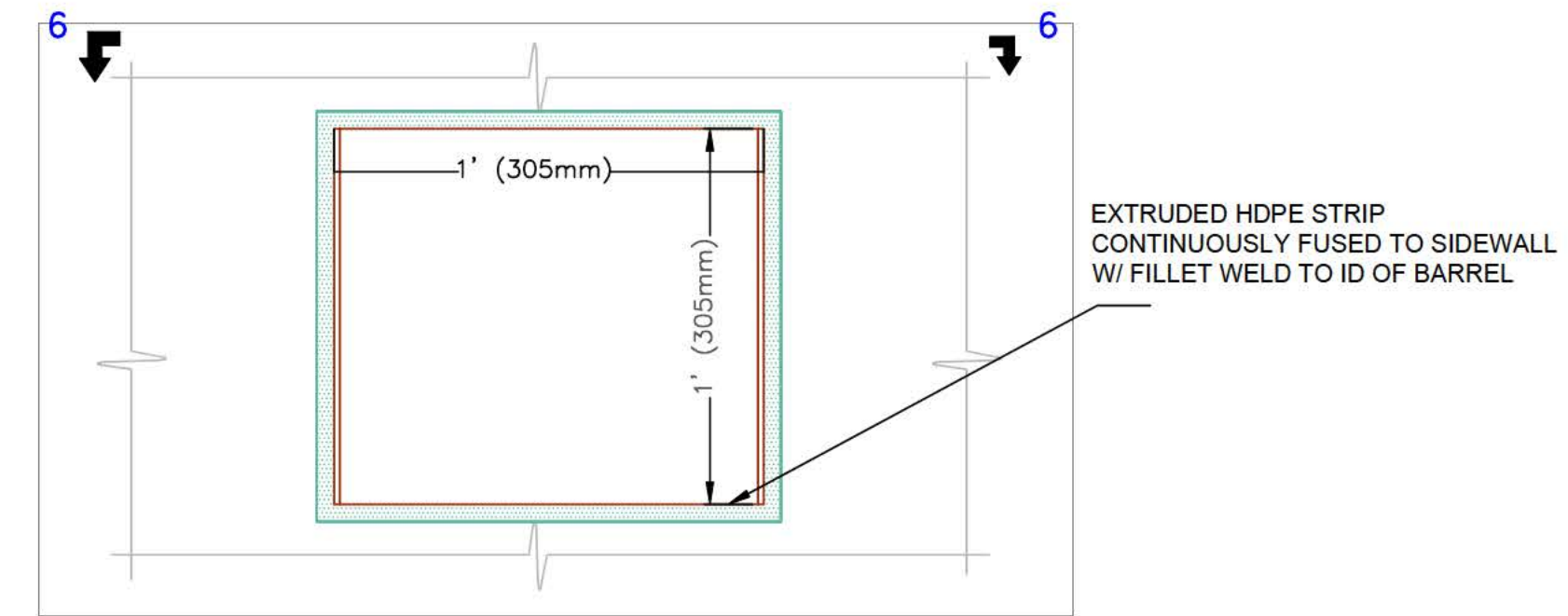
SHEET 13 OF 15

CITY DRAWING NUMBER
C3010

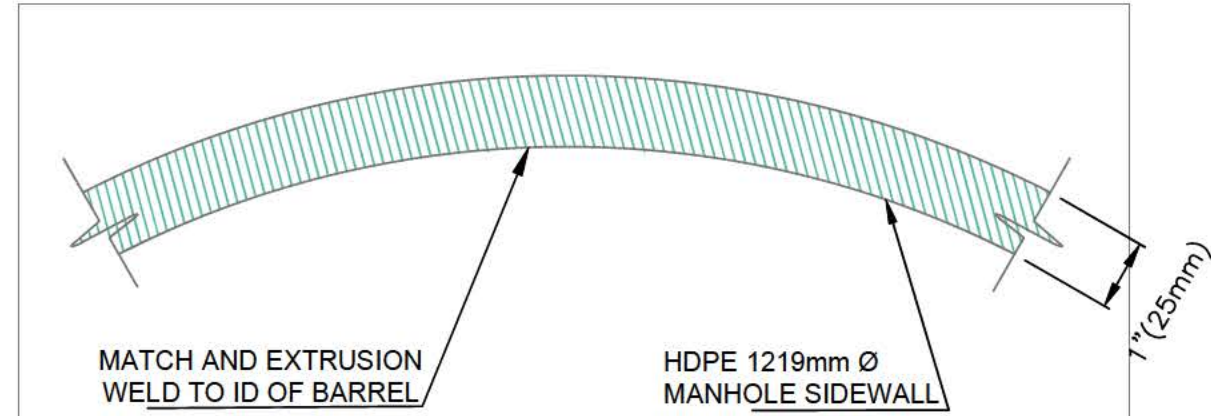


NOTE: MANHOLE PUMP AND ACCESSORIES, ABOVE GROUND COMPRESSED AIR PIPING AND MANHOLE COVER NOT SHOWN FOR CLARITY. REFER TO SECTION AND SHT. 10 - 15 FOR ADDITIONAL DETAILS. THE CONTRACTOR TO FIELD LOCATE THE MH CONNECTION.

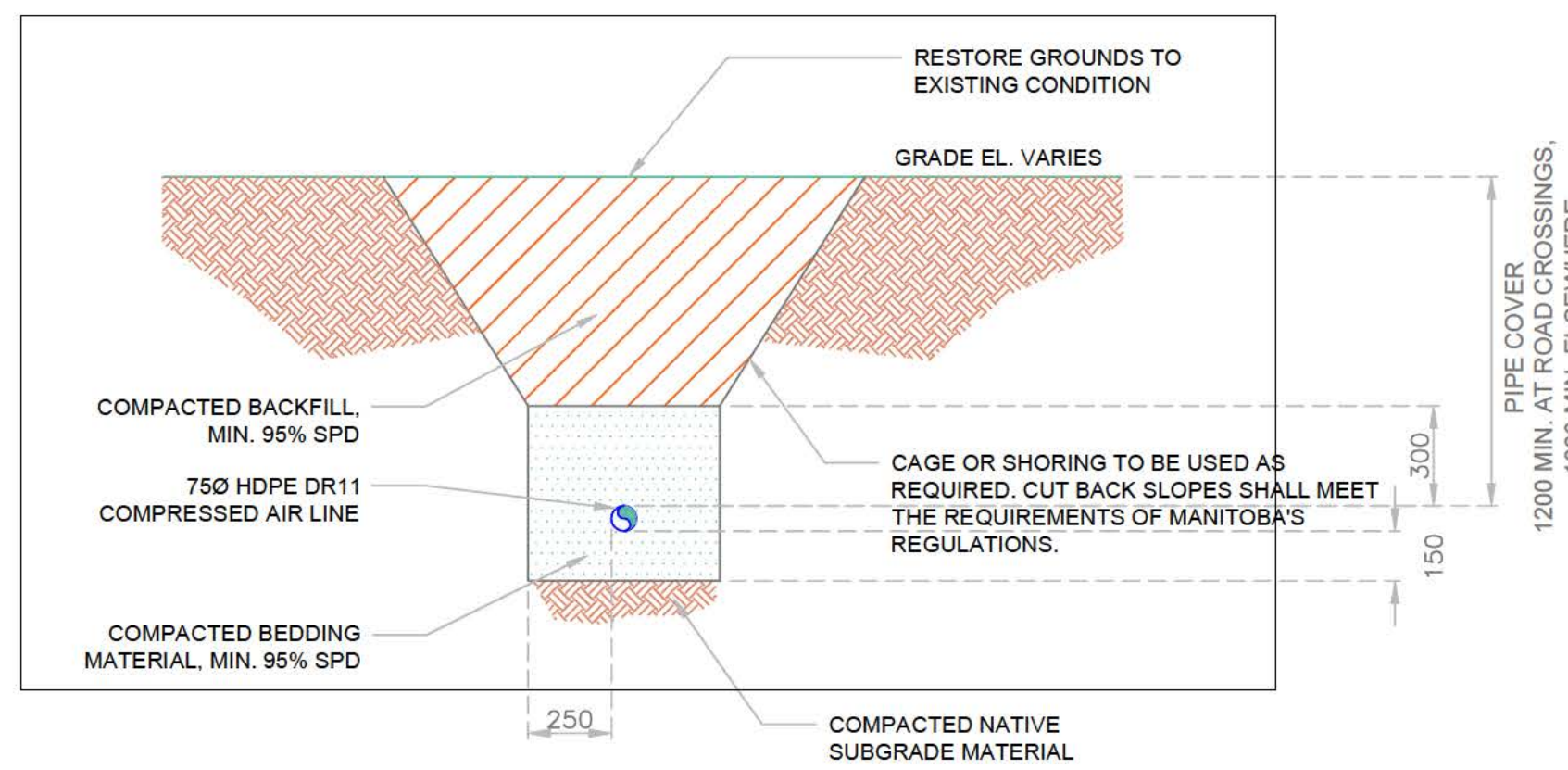
1 PLAN - CELL 33 MANHOLE
SHT-13 SCALE: 1:20mm



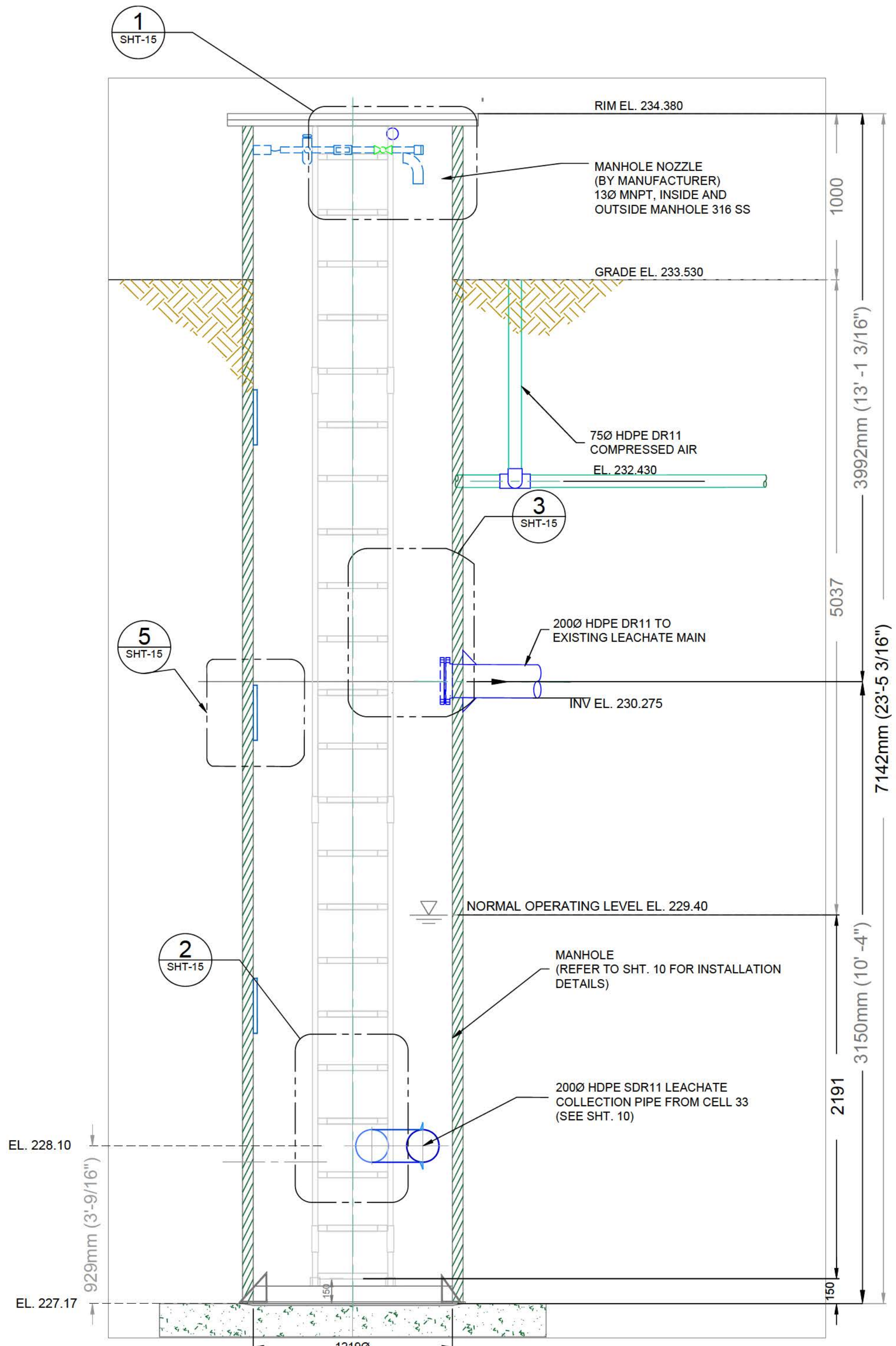
5 DETAIL - SUPPORT BRACKET
SHT-14 SCALE: 1:5mm



6-6 SECTION - MANHOLE
SHT-14 SCALE: 1:5mm



B-B SECTION - COMPRESSED AIR PIPE TRENCH
SHT-14 SCALE: N.T.S.



NOTES: COMPRESSED AIR SUPPLY TO MANHOLE AND LADDER NOT SHOWN FOR CLARITY. REFER TO PLAN AND SHT. 10 FOR DETAILS.

A SECTION - CELL 33 MANHOLE
SHP-13 SCALE: 1:20mm

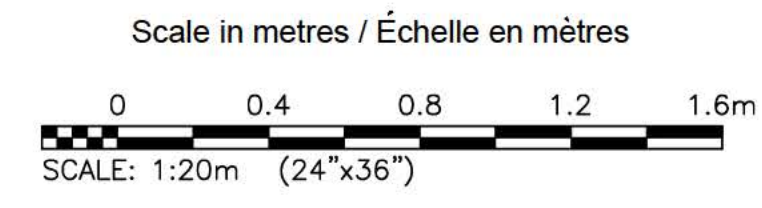
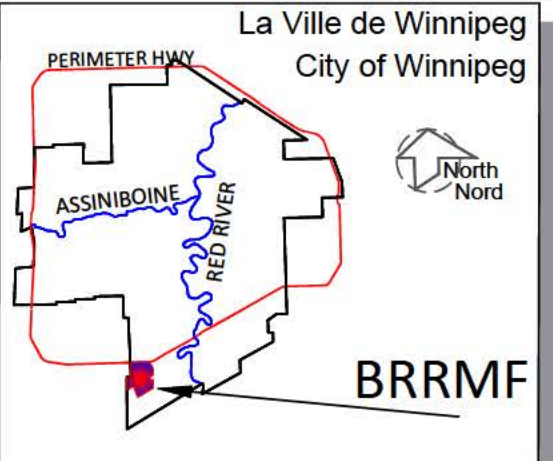
GENERAL NOTES:

- PERFORM WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- THE CONTRACTOR SHALL REVIEW THE PROJECT DRAWINGS AND SPECIFICATIONS PRIOR TO ANY CONSTRUCTION ON SITE. ANY DISCREPANCIES, MISSING DIMENSION AND/OR REQUIRED DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACT ADMINISTRATOR BEFORE AFFECTED WORK IS COMMENCED. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL REQUIRED INFORMATION PRIOR TO STARTING WORK.
- THE CONTRACTOR SHALL FIELD CONFIRM LOCATIONS OF ALL PIPING, STRUCTURES AND SERVICES ABOVE OR BELOW GROUND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EQUIPMENT LOCATIONS PRIOR TO CONSTRUCTION AND REPORT DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK. FIELD CONFIRM EXISTING GRADE ELEVATIONS AT MANHOLE LOCATIONS.
- ALL EXISTING CONSTRUCTION ALTERED OR DAMAGED DURING THE COURSE OF WORK SHALL BE MADE GOOD TO MATCH.
- THE CONTRACTOR SHALL COORDINATE WITH THE CONTRACT ADMINISTRATOR TO ENSURE THE WORK DOES NOT DISRUPT NORMAL SITE OPERATIONS.

RECORD DRAWING	
DATE YYYMMDD	01/26/2022
DRAFTED BY	MO
FIELD INFO BY	ARR
CHECKED BY	ARR

METRIC / MÉTRIQUE
WHOLE NUMBERS INDICATE MILLIMETERS
DECIMALIZED NUMBERS INDICATE METRES /
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LES NUMÉROS DÉCIMALISÉS INDICENT LES MÈTRES

GEODETIC REFERENCE
Projection: UTM Zone 14N
Units: Metres
Datum: NAD83
Ellipsoid: GRS80



NOTES			
1.	MANHOLE NOT SUITED FOR TRAFFIC LOADING.		
2.	PUMPING SYSTEMS NOT SHOWN FOR CLARITY. LEACHATE PUMP AND INTERNAL PIPING DETAILS PROVIDED ON MECHANICAL DRAWINGS AND VERIFY LOCATION AND DAYLIGHT UTILITIES ALONG LEACHATE FORCE MAIN AND MANHOLE ALIGNMENT.		
3.	ALL PIPE ELEVATION (ESP. MANHOLE CONNECTIONS) ARE APPROXIMATE AND TO BE CONFIRMED BY THE CONTRACTOR DURING CONSTRUCTION.		

B.M. ELEV.	SWS GCP N: 5 513 301.225	E: 629 498.188	
	234 093		
CONSTRUCTION COMPLETION DATE: September 28, 2021			
NO.	REVISIONS	DATE	BY
2	RECORD DRAWING	01/26/2022	ARR
1	ISSUED FOR REGULATORY COMPLIANCE	2022 03 09	MO

THE CITY OF WINNIPEG / LA VILLE DE WINNIPEG
WATER AND WASTE DEPARTMENT
SOLID WASTE SERVICES

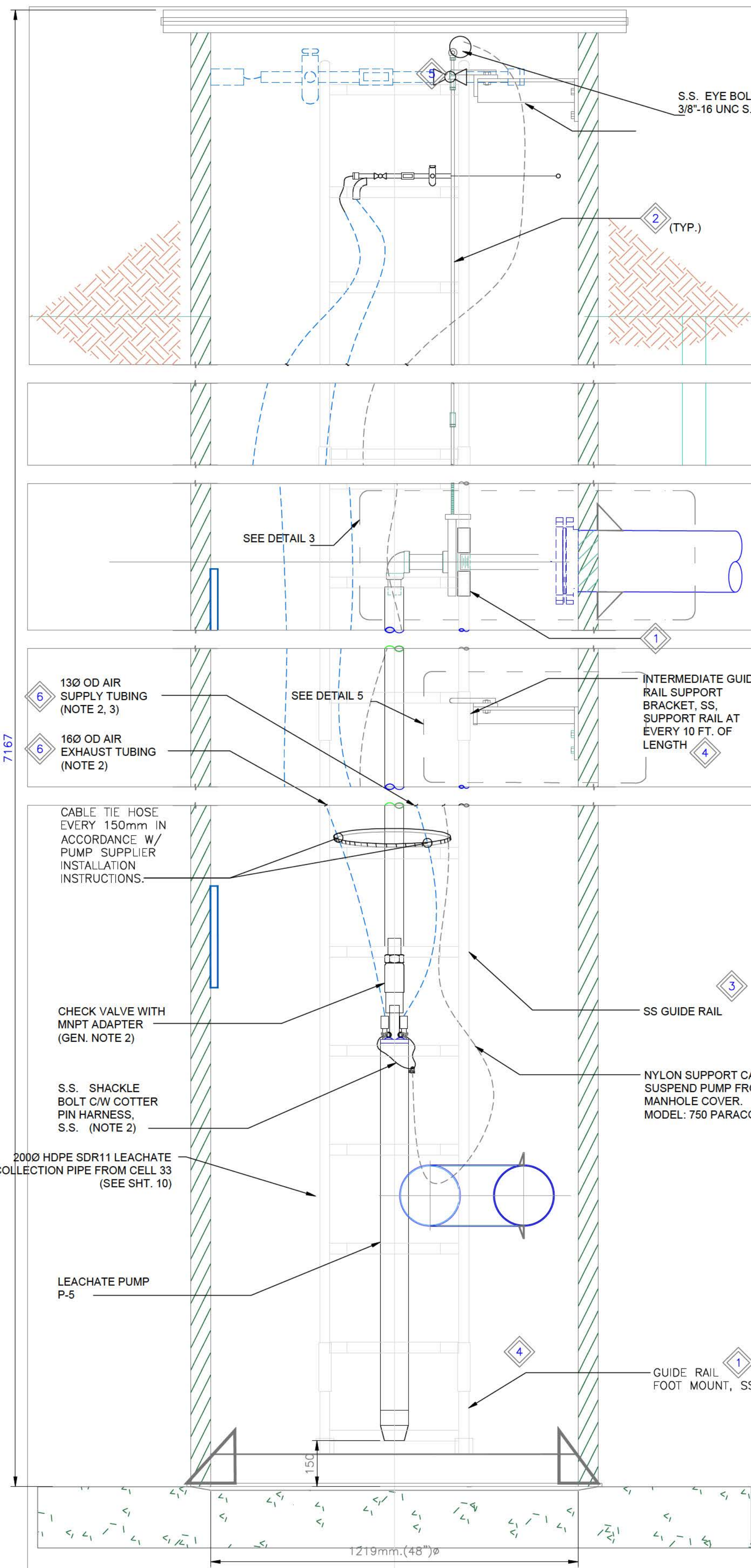
DESIGNED BY: ARR
DRAWN BY: MO
SCALE: HORIZONTAL AS NOTED, VERTICAL AS NOTED

CHECKED BY: ARR
APPROVED BY: ARR
RELEASED FOR CONSTRUCTION

BRADY ROAD RESOURCE MANAGEMENT FACILITY (BRRMF)
AREA A CONSTRUCTION - CELL 33

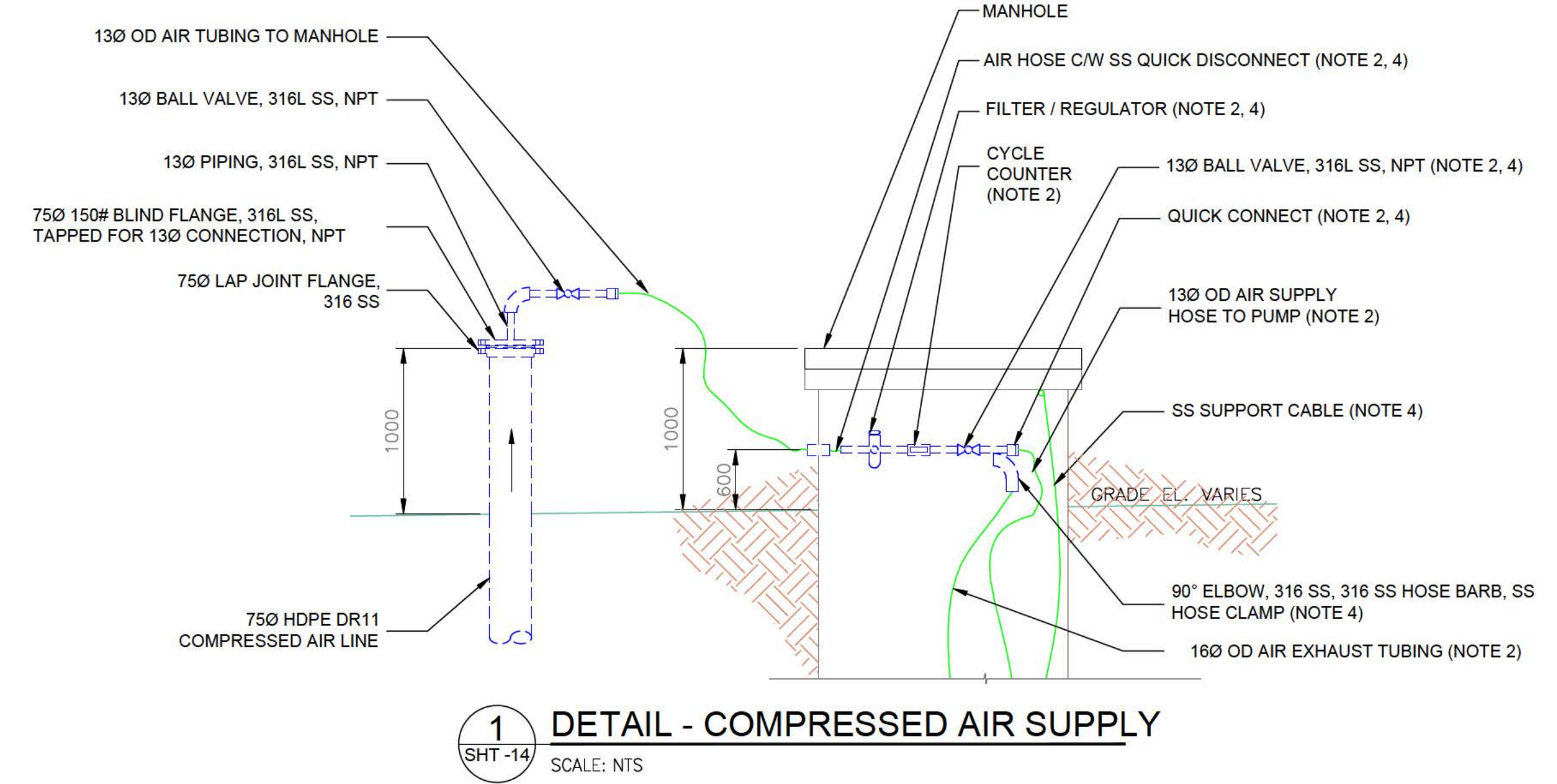
MANHOLE

SHEET 14 OF 15
CITY DRAWING NUMBER: C4000

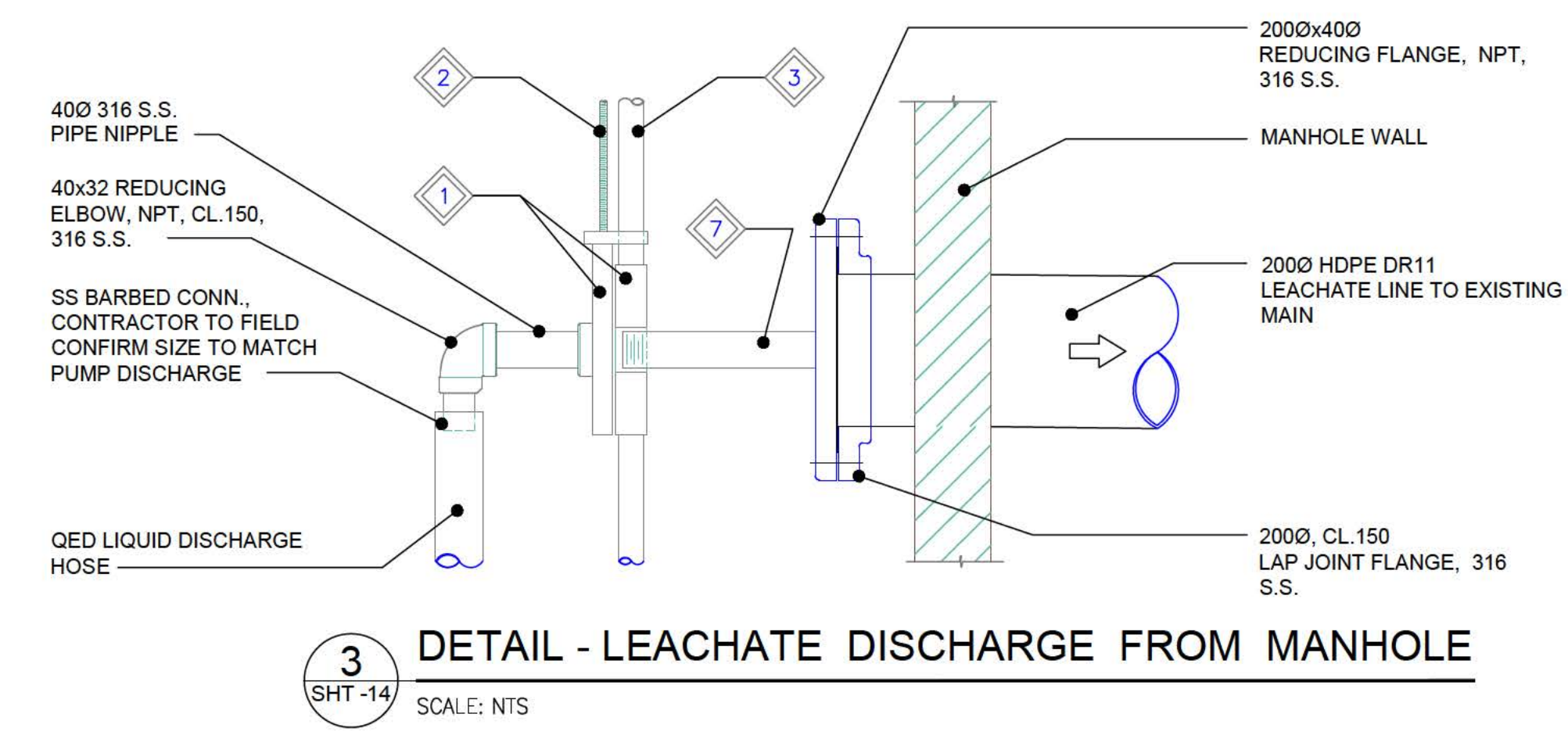


7167

2 DETAIL - MANHOLE PUMP
SHT -14 SCALE: NTS



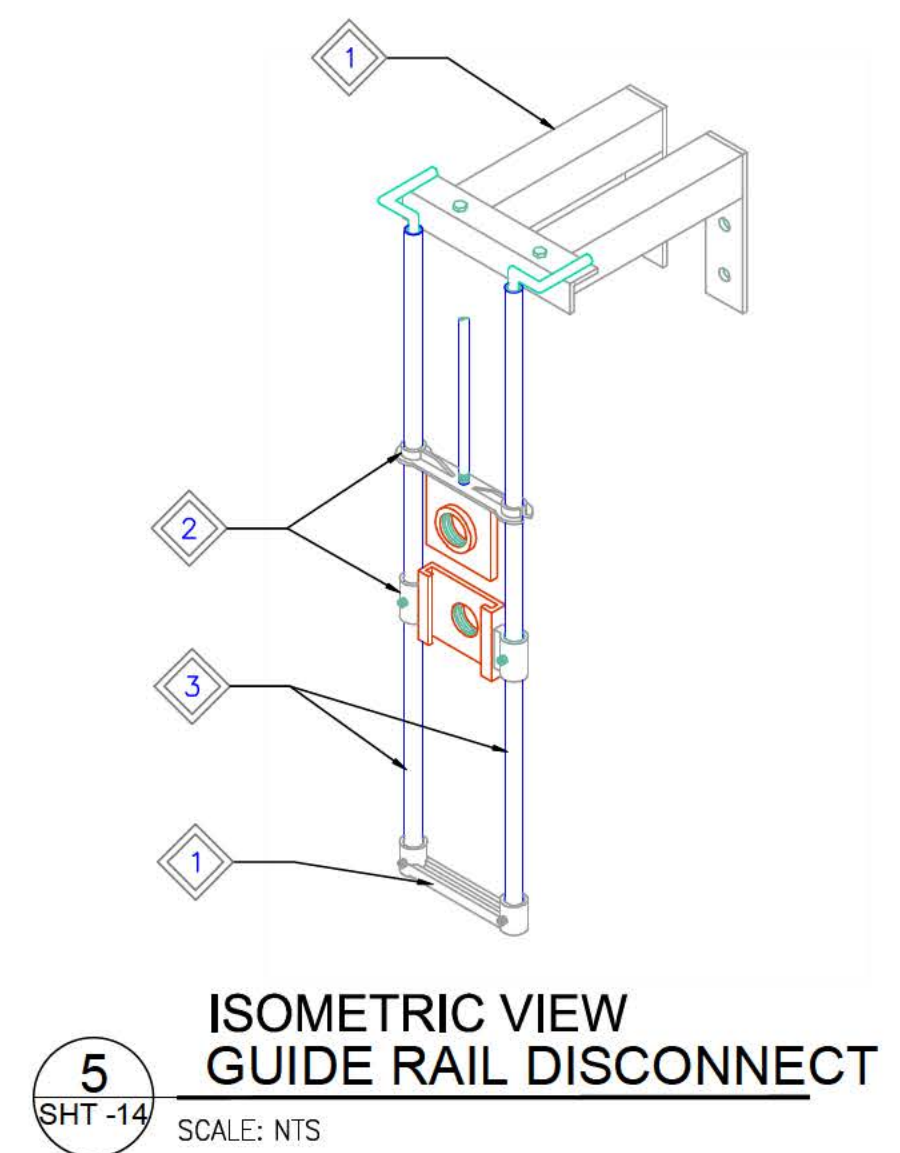
1 DETAIL - COMPRESSED AIR SUPPLY
SHT -14 SCALE: NTS



3 DETAIL - LEACHATE DISCHARGE FROM MANHOLE
SHT -14 SCALE: NTS

- GENERAL NOTES:**
- REFER TO SHT. 14 FOR MECHANICAL GENERAL NOTES.
 - SUPPLIED WITH PUMP.
 - PROVIDE SUFFICIENT LENGTH OF TUBING TO ALLOW REMOVAL OF PUMP FROM SUMP.
 - INSTALL INSIDE MANHOLE NEAR COVER, SECURE TO WALL.
 - ALL DETAILS ARE TYPICAL FOR CELL 33 and 34.

- KEYNOTES:**
- RAIL AND DISCONNECT SYSTEM, SIZE 1 1/2" NPT. 2 STANDOFFS INCLUDED W/ KIT. MODEL: ZOELLER PUMP CO. MODEL 39-0003
 - 3/8"-16 UNC S.S. THREADED ROD. USE 6' LENGTHS AND 3/8"-16 UNC S.S. COUPLING NUTS. EACH COUPLING NUT IS DOUBLE-NUTTED TO LOWER THREADED ROD. UPPER THREADED ROD AT EACH COUPLING NUT CAN BE TURNED OUT AS PUMP IS LIFTED OUT OF CELL.
 - GUIDE RAILS: 3/4" IPS, S.S. PIPE.
 - INTERMEDIATE GUIDE RAIL BRACKET. MODEL: ZOELLER PUMP CO. MODEL 39-0022.
 - S.S. STANDOFF NEAR TOP OF CELL TO PREVENT LATERAL MOVEMENTS OF THREADED ROD WHEN IT IS IN ITS FULL LENGTH/STORED POSITION.
 - AIR SUPPLY, AIR EXHAUST AND PUMP DISCHARGE TUBING. MODEL: QED TRI-HOSE BUNDLE.
 - LENGTH OF PIPE NIPPLE BASED ON ZOELLER GUIDE RAIL BRACKET LENGTH.

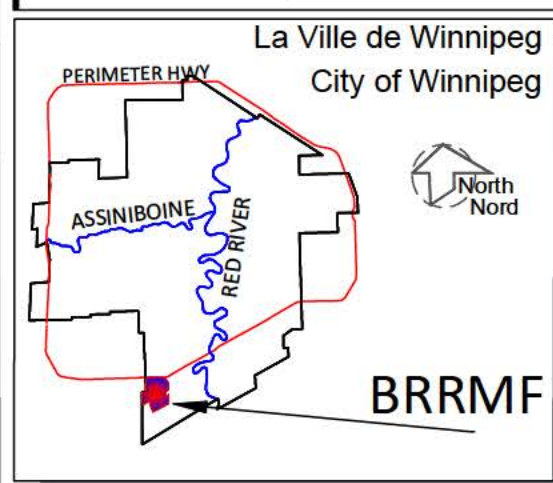


5 ISOMETRIC VIEW GUIDE RAIL DISCONNECT
SHT -14 SCALE: NTS

RECORD DRAWING	
DATE: Y1/M1/D1	01/28/2022
DRAFTED BY:	MO
FIELD INFO BY:	ARR
CHECKED BY:	ARR

METRIC / MÉTRIQUE
WHOLE NUMBERS INDICATE MILLIMETERS
DECIMALIZED NUMBERS INDICATE METRES /
LES NUMÉROS ENTIERS INDIQUENT LES MILLIMÈTRES /
LES NUMÉROS DÉCIMALIÉS INDIQUENT LES MÈTRES

GEODETTIC REFERENCE
Projection: UTM Zone14N
Units: Metres
Datum: NAD83
Ellipsoid: GRS80



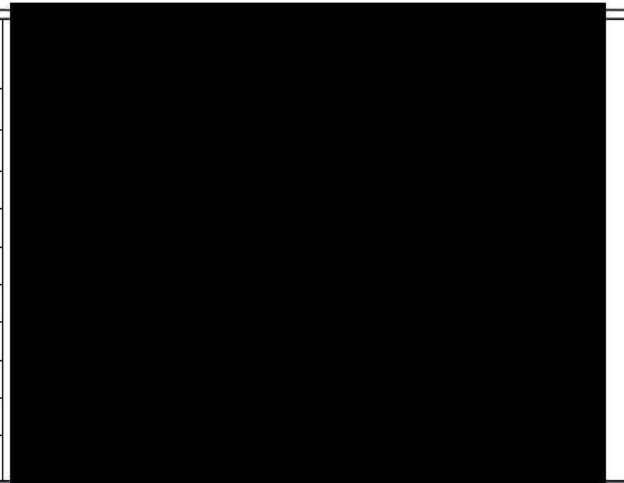
LEGEND/LEGENDE

	COMPACTED CLAY		COMPACTED NATIVE SUBGRADE MATERIAL		COMPACTED BEDDING
	REINFORCED CONCRETE				

NOTES:

- MANHOLE NOT SUITED FOR TRAFFIC LOADING.
- PUMPING SYSTEMS NOT SHOWN FOR CLARITY. LEACHATE PUMP AND INTERNAL PIPING DETAILS PROVIDED ON MECHANICAL DRAWINGS AND VERIFY LOCATION AND DAYLIGHT UTILITIES ALONG LEACHATE FOREMAN AND MANHOLE ALIGNMENT.
- ALL PIPE ELEVATION (ESP. MANHOLE CONNECTIONS) ARE APPROXIMATE AND TO BE CONFIRMED BY THE CONTRACTOR DURING CONSTRUCTION.

B.M. SWS GCP N: 5 513 301.225 E: 629 498.188 ELEV. 234.093			
CONSTRUCTION COMPLETION DATE: September 28, 2021			
2	RECORD DRAWING	01/28/2022	ARR
1	ISSUED FOR REGULATORY COMPLIANCE	2022 03 09	ARR
NO.	REVISIONS	DATE	BY



THE CITY OF WINNIPEG / LA VILLE DE WINNIPEG
WATER AND WASTE DEPARTMENT
SOLID WASTE SERVICES

DESIGNED BY: ARR	CHECKED BY: ARR	BRADY ROAD RESOURCE MANAGEMENT FACILITY (BRRMF) AREA A CONSTRUCTION - CELL 33	SHEET 15 OF 15 CITY DRAWING NUMBER C4001
DRAWN BY: MO	APPROVED BY: ARR		
SCALE: HORIZONTAL AS NOTED	RELEASED FOR CONSTRUCTION	MECHANICAL DETAILS	