

NOTES: GENERAL

- 1. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS.
2. ALL SERVICES, MATERIALS, CONSTRUCTION METHODS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND REGULATIONS OF THE CITY OF OTTAWA STANDARD SPECIFICATIONS AND DRAWINGS, ONTARIO PROVINCIAL SPECIFICATION STANDARD SPECIFICATION (OPSS) AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD), UNLESS OTHERWISE SPECIFIED, TO THE SATISFACTION OF THE CITY AND THE CONSULTANT.
3. THE POSITION OF EXISTING POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES, STRUCTURES AND APPURTENANCES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SATISFY THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM DURING THE COURSE OF CONSTRUCTION. ANY RELOCATION OF EXISTING UTILITIES REQUIRED BY THE DEVELOPMENT OF SUBJECT LANDS IS TO BE UNDERTAKEN AT CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR MUST NOTIFY ALL EXISTING UTILITY COMPANY OFFICIALS FIVE (5) BUSINESS DAYS PRIOR TO START OF CONSTRUCTION AND HAVE ALL EXISTING UTILITIES AND SERVICES LOCATED IN THE FIELD OR EXPOSED PRIOR TO THE START OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO POWER, COMMUNICATION AND GAS LINES.
5. ALL TRENCHING AND EXCAVATIONS TO BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS AND AS PER THE RECOMMENDATIONS INCLUDED IN THE FOLLOWING GEOTECHNICAL REPORT:
i. REPORT PGS701-1 PREPARED PATERSON GROUP, DATED MARCH 10, 2021 AND TITLED "GEOTECHNICAL INVESTIGATION - PROPOSED RESIDENTIAL DEVELOPMENT - KANATA - BLOCK 344 - 620 BOBOLINK RIDGE, OTTAWA, ONTARIO".
6. REFER TO ARCHITECTS PLANS FOR BUILDING DIMENSIONS, LAYOUT AND REMOVALS. REFER TO LANDSCAPE PLAN FOR LANDSCAPED DETAILS AND OTHER RELEVANT INFORMATION. ALL INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. TOPOGRAPHIC SURVEY COMPLETED AND PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. DATED ON APRIL 16, 2021. CONTRACTOR TO VERIFY IN THE FIELD PRIOR TO CONSTRUCTION OF ANY WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
8. ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS. VERIFY THAT JOB BENCHMARKS HAVE NOT BEEN ALTERED OR DISTURBED.
9. ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
10. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500MM WIDTH MINIMUM PER DETAIL 2/C1.7.
11. ALL DISTURBED AREAS OUTSIDE PROPOSED GRADING LIMITS ARE TO BE RESTORED TO ORIGINAL ELEVATIONS AND CONDITIONS UNLESS OTHERWISE SPECIFIED. ALL RESTORATION SHALL BE COMPLETED WITH THE GEOTECHNICAL REQUIREMENTS FOR BACKFILL AND COMPACTION.
12. ABUTTING PROPERTY GRADES TO BE MATCHED UNLESS OTHERWISE SHOWN.
13. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION, INCLUDING WATER PERMIT AND ROAD CUT PERMIT.
14. MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
15. REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS.
16. AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK.
17. CONTRACTOR TO OBTAIN POST-CONSTRUCTION TOPOGRAPHIC SURVEY, COMPLETED BY OLS OR P.ENG CONFIRMING COMPLIANCE WITH DESIGN GRADING AND SERVICING. SURVEY IS TO INCLUDE LOCATION AND INVERTS FOR BURIED UTILITIES.
18. ABIDE BY RECOMMENDATIONS OF GEOTECHNICAL REPORT. REPORT ANY VARIATIONS IN OBSERVED CONDITIONS FROM THOSE INCLUDED IN REPORT.
19. ADDITIONAL REPORT REFERENCES
i. DESIGN BRIEF, PREPARED BY IBI GROUP, PROJ. NO. 27970-5.2-2, JULY 2017
20. PROVIDE CCTV INSPECTION REPORT FOR ALL SEWERS AND CATCHBASIN LEADS 200MM DIAMETER AND LARGER. REPEAT CCTV INSPECTION FOLLOWING RECTIFICATION OF ANY DEFICIENCIES.
21. SEWER SERVICE CONNECTIONS TO FLEXIBLE MAIN SEWER PIPES AND RIGID MAIN SEWERS PIPES SHALL BE PER RESPECTIVE CITY OF OTTAWA STANDARD S11, S11.1, AND S11.2.
22. COMMON TRENCHES FOR TOWNHOME SERVICING SHALL BE PER CITY OF OTTAWA STANDARD S11.3.
23. CONTRACTOR TO FIELD VERIFY AND REPORT TO ENGINEER OF RECORD THE ELEVATION, MATERIAL, AND DIAMETER OF EXISTING UTILITIES AT ALL PROPOSED CONNECTIONS PRIOR TO CONSTRUCTION.

24. WATERMAIN

- 1. ALL WATERMAIN AND WATERMAIN APPURTENANCES, MATERIALS, CONSTRUCTION AND TESTING METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA AND MINISTRY OF ENVIRONMENT, CONSERVATION, AND PARKS WATERWORKS GUIDELINES.
2. ALL WATERMAIN 300MM DIAMETER AND SMALLER TO BE POLY VINYL CHLORIDE (PVC) CLASS 150 DR 18 MEETING AWWA SPECIFICATION C900.
3. ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4M BELOW FINISHED GRADE. WHERE WATERMANS CROSS OVER OTHER UTILITIES, A MINIMUM 0.30M CLEARANCE SHALL BE MAINTAINED; WHERE WATERMANS CROSS UNDER OTHER UTILITIES, A MINIMUM 0.50M CLEARANCE SHALL BE MAINTAINED. WHERE THE MINIMUM SEPARATION CANNOT BE ACHIEVED, THE WATERMAIN SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W25 AND W25.2. WHERE 2.4M MINIMUM DEPTH CANNOT BE ACHIEVED, THERMAL INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W22. WHERE A WATERMAIN IS IN CLOSE PROXIMITY TO AN OPEN STRUCTURE, THERMAL INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W23.
4. CONCRETE THRUST BLOCKS AND MECHANICAL RESTRAINTS ARE TO BE INSTALLED AT ALL TEES, BENDS, HYDRANTS, REDUCERS, ENDS OF MAINS AND CONNECTIONS 100MM AND LARGER, IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25.3 & W25.4.
5. CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF OTTAWA STANDARD W40 & W42.
6. DOMESTIC WATER SERVICES SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL W26.
7. ALL VALVES AND VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLIES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARD.
8. FIRE HYDRANT LOCATION AND INSTALLATION AS PER CITY OF OTTAWA STANDARD W18 & W19. CONTRACTOR TO PROVIDE FLOW TEST AND PAINTING OF NEW HYDRANT IN ACCORDANCE WITH CITY STANDARDS.
9. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
10. REFER TO LANDSCAPE DRAWINGS FOR IRRIGATION SYSTEM REQUIREMENTS (IF APPLICABLE).
11. WATERMAIN DEAD ENDS SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL W37.2

NOTES: SANITARY SEWER AND MANHOLES

- 10. ALL SANITARY SEWER, SANITARY SEWER APPURTENANCES AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW SANITARY PIPING. PROVIDE DYE TESTING FOR NEW SERVICES.
11. SANITARY SEWER PIPE SIZE 150MM DIAMETER AND GREATER TO BE PVC SDR-35 (UNLESS SPECIFIED OTHERWISE) WITH RUBBER GASKET TYPE JOINTS IN CONFORMANCE WITH CSA B-182.2,3,4.
12. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
13. ALL SANITARY MANHOLES 1200MM IN DIAMETER TO BE AS PER OPSD 701.01. FRAME AND COVER TO BE AS PER CITY OF OTTAWA STANDARD S25 AND S24.
14. MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES AS PER THE OPSD 701.021
15. ANY NEW OR EXISTING SANITARY SEWER (INCLUDING SERVICE LATERALS) WITH LESS THAN 2.0M COVER REQUIRES THERMAL INSULATION AS PER DETAIL 3/C1.7 OR APPROVED BY THE ENGINEER.
16. SANITARY MANHOLE WHICH RESIDE WITHIN 100-YEAR STORMWATER PONDING AREAS SHALL BE

EQUIPPED WITH WATER-TIGHT LIDS IN ACCORDANCE WITH CITY STANDARD.

NOTES: STORM SEWERS AND STRUCTURES

- 1. ALL STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW STORM SEWERS, SERVICES AND CB LEADS.
2. STORM SEWERS 450MM DIAMETER AND SMALLER SHALL BE PVC SDR-35, WITH RUBBER GASKET PER CSA A-257.3.
3. STORM SEWER LARGER THAN 450MM SHALL BE REINFORCED CONCRETE CLASS 100.
4. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
16. ALL STORM MANHOLES TO BE AS PER STORM STRUCTURE TABLE ON DRAWING C1.4 AND C1.5. ALL SANITARY MANHOLES SHALL BE PER ONTARIO PROVINCIAL STANDARDS. FRAME AND COVER TO BE AS PER CITY OF OTTAWA STANDARD S24 AND S25, UNLESS OTHERWISE SPECIFIED.
5. ANY NEW OR EXISTING STORM SEWER (INCLUDE SERVICE LATERALS) WITH LESS THAN 2.0M COVER REQUIRES THERMAL INSULATION AS PER DETAIL 3/C1.7 OR APPROVED BY THE ENGINEER.
6. CB IN LANDSCAPE AREAS SHALL BE AS PER CITY OF OTTAWA STANDARD S29, S30 AND S31, UNLESS OTHERWISE SPECIFIED.
7. ALL CATCHBASIN LEADS TO BE MINIMUM 200MM DIAMETER AT MINIMUM 1.0% SLOPE UNLESS OTHERWISE SPECIFIED.
8. STORM CATCHBASINS AS PER OPSD 705.010 AND FRAME/COVER AS PER CITY STANDARD DRAWINGS S19.
9. INSTALLATION OF FLOW CONTROL ICD'S TO BE VERIFIED BY QUALITY VERIFICATION ENGINEER RETAINED BY CONTRACTOR.

NOTES: PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY

- 1. CONTRACTOR TO REINSTATE ROAD CUTS AS PER CITY OF OTTAWA DETAIL R10.
2. CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT PRIOR TO THE COMMENCEMENT OF PLACEMENT OF SUB-BASE MATERIAL.
3. FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.
4. CONTRACTOR TO SUPPLY, PLACE AND COMPACT SUB-BASE MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF SUB-BASE MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
5. BASE MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF SUB-BASE PLACEMENT.
6. CONTRACTOR TO SUPPLY, PLACE AND COMPACT BASE MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF BASE MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
7. ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF BASE PLACEMENT.
8. CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
9. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR PROVIDING THE CONSULTANT WITH VERIFICATION PRIOR TO PLACEMENT.
10. ALL EXCESS MATERIAL TO BE HAULED OFF-SITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY CONSULTANT. CONSULTANT TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.
11. PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESS) FOR HEAVY DUTY AND LIGHT DUTY AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.

NOTES: EROSION AND SEDIMENT CONTROL

** CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES. **

1. PRIOR TO START OF CONSTRUCTION:

- 1.1. INSTALL SILT FENCE IN LOCATION SHOWN ON DWG C1.8.
1.2. INSTALL FILTER FABRIC OR SILT SACK FILTERS IN ALL THE CATCHBASINS AND MANHOLES TO REMAIN DURING CONSTRUCTION WITHIN THE SITE (SEE DETAIL 8/C1.7).
1.3. INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.

2. DURING CONSTRUCTION:

- 2.1. MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE AND IMPACTS TO EXISTING GRADING.
2.2. PERIMETER VEGETATION TO REMAIN IN PLACE UNTIL PERMANENT STORM WATER MANAGEMENT IS IN PLACE. OTHERWISE, IMMEDIATELY INSTALL SILT FENCE WHEN THE EXISTING SITE IS DISTURBED AT THE PERIMETER.
2.3. PROTECT DISTURBED AREAS FROM OVERLAND FLOW BY PROVIDING TEMPORARY SWALES TO THE SATISFACTION OF THE FIELD ENGINEER. TIE-IN TEMPORARY SWALE TO EXISTING CATCH BASINS AS REQUIRED.
2.4. PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED WITHIN 30 DAYS.
2.5. INSPECT SILT FENCES, FILTER FABRIC FILTERS AND CATCH BASIN SUMPS WEEKLY AND WITHIN 24 HOURS AFTER A STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY.
2.6. SEDIMENT AND EROSION CONTROL PLAN DRAWING TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION.
2.7. EROSION CONTROL FENCING TO BE INSTALLED AROUND THE BASE OF ALL STOCKPILES.
2.8. DO NOT LOCATE TOPSOIL PILES AND EXCAVATION MATERIAL CLOSER THAN 2.5M FROM ANY PAVED SURFACE, OR ONE WHICH IS TO BE PAVED BEFORE THE PILE IS REMOVED. ALL TOPSOIL PILES ARE TO BE SEEDS IF THEY ARE TO REMAIN ON-SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS).
2.9. CONTROL WIND-BLOWN DUST OFF-SITE BY SEEDING TOPSOIL PILES AND OTHER AREAS TEMPORARILY (PROVIDE WATERING AS REQUIRED AND TO THE SATISFACTION OF THE ENGINEER).
2.10. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE FIELD ENGINEER.
2.11. CITY ROADWAY AND SIDEWALK TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING AS REQUIRED.
2.12. DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPPED.
2.13. ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE LOADER.
2.14. TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIAL, CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ABUTTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS SO AFFECTED.
2.15. ALL EROSION CONTROL STRUCTURE TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
2.16. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

INLET CONTROL DEVICE (ICD) SCHEDULE

Table with 4 columns: HOST STRUCTURE, ICD POSITION (DIRECTION & INLET/OUTLET), INVERT ELEV. (m), ORIFICE DIA. (mm). Rows include CB03, CB04, CB07, CB08, CB10, CB11, CB12, CBM13, CB14, CB15, CB16, MH409, RYCB02, RYCB04, RYCB09, RYCB18.

NOTES:

- 1. ABE SHALL BE READ IN CONJUNCTION WITH SITE STORMWATER MANAGEMENT REPORT (DATED JULY 7, 2021, PREPARED BY WSP CANADA INC.).
2. WHERE ICD DIAMETERS ARE LESS THAN 75mm (REQUIRED MINIMUM PER MECF), MANUFACTURED LOW-FLOW ICDS WILL BE REQUIRED WITH SIMILAR DISCHARGE PERFORMANCE NOTED ACTIVE HEAD. PROPOSED DEVICES SHALL BE SUBJECT TO ENGINEER'S REVIEW AND APPROVAL.
3. UNLESS OTHERWISE SPECIFIED, ALL INLET CONTROL DEVICES (ICD'S) SHALL BE ORIFICE PLATES COMPOSED OF STAINLESS STEEL, BOLTED TO THE INSIDE OF THE REFERENCED STRUCTURES. ANY GAP BETWEEN PLATE PERIMETER AND STRUCTURE WALL SHALL BE SEALED USING A MASTIC SEALANT.

ALIGNMENT DATA

Table with 3 columns: START STATION, END STATION, DESCRIPTION. Rows include 1+000 to 5+000 for STREET A, NORTH ENTRANCE, SOUTH ENTRANCE, NORTH PARKING LOT, SOUTH PARKING LOT.

TEMPORARY BENCH MARKS

Table with 5 columns: TBM #, NORTHING (m), EASTING (m), ELEVATION (m), DESCRIPTION. Rows include TBM 1 and 2 with coordinates and descriptions like FIRE HYDRANT TOP OF SPINDLE.

EXISTING LEGEND:

- EDGE OF PAVEMENT
CURB
BOTTOM OF SLOPE
TOP OF SLOPE
MAJOR CONTOURS
MINOR CONTOURS
OVERHEAD WIRE
GUY ANCHOR
WATERMAIN
STORM SEWER
SANITARY SEWER
GAS
UNDERGROUND
CABLE
SWALE
FENCE
PROPERTY BOUNDARY
SITE TEMPORARY BENCH MARK
TEST PIT LOCATION
UTILITY POLE
STREET LIGHT
ROAD SIGN
TRANSFORMER
CULVERT
ASPHALT
SIDEWALK
BUILDING

REMOVAL LEGEND:

- WATER SERVICE REMOVAL
CURB REMOVAL
TYPICAL REMOVAL
TYPICAL RELOCATION
PARTIAL DEPTH ASPHALT REMOVAL
LIGHT DUTY SILT FENCE (OPSD 219.110)
FILTER CLOTH PROTECTION
MUD MAT

ESC LEGEND:

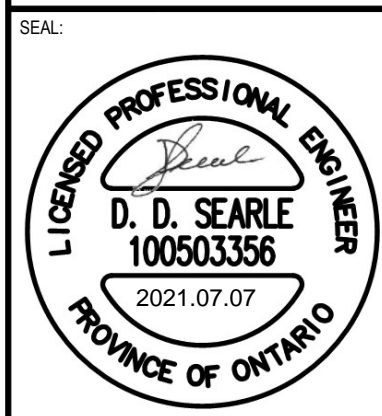
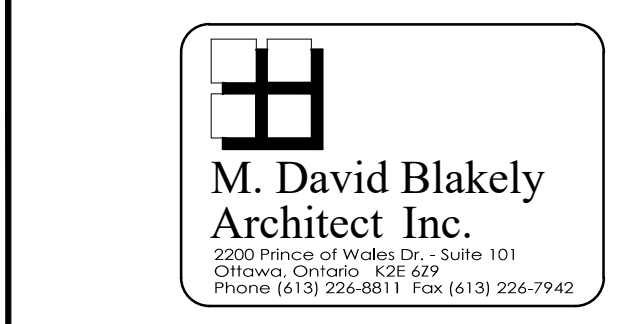
- FFE = FINISHED FLOOR ELEVATION
T/FD = TOP OF FOUNDATION
USF = UNDER SIDE OF FOOTING
MUSF = MIN. UNDER SIDE OF FOOTING

PROPOSED LEGEND:

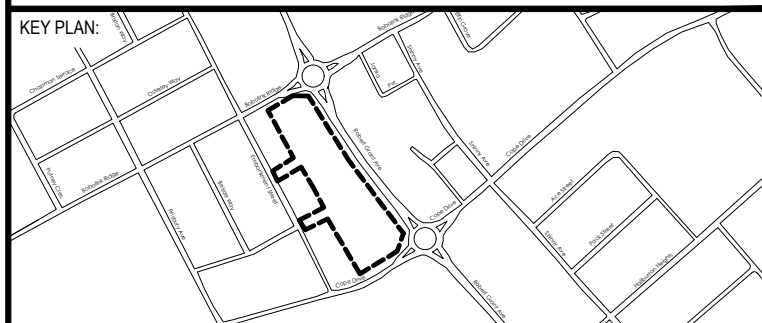
- ALIGNMENT
EDGE OF PAVEMENT
CONCRETE BARRIER CURB
WATERMAIN
WATER SERVICE
STORM SEWER
STORM SUBDRAIN
SANITARY SEWER
SANITARY SERVICE
JOINT UTILITY TRENCH
GRADING TOP OF SLOPE
GRADING BOTTOM OF SLOPE
SWALE
SWALE c/w SUBDRAIN
100mm LINE PAINTING
STORM MANHOLE
REAR YARD CATCH BASIN/CLEAN OUT
CATCH BASIN MANHOLE
CATCH BASIN
SANITARY MANHOLE
FIRE HYDRANT
WATERMAIN VALVE
TWSI
BUILDING ENTRANCE
SIGN
GRADE ELEVATION
IBI DESIGN GRADE
FULL DEPTH ASPHALT
PARTIAL DEPTH ASPHALT
CONCRETE SIDEWALK
ASPHALT SIDEWALK
BUILDING
RIVER STONE



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TERRACE FLATS



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PRELIMINARY
NOT FOR CONSTRUCTION

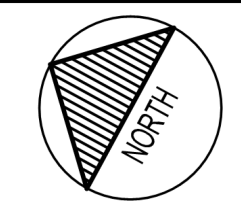
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Table with 2 columns: PROJECT NO., DATE. Row 1: 211-01221-00, MARCH 2021

Table with 2 columns: DISCIPLINE, TITLE. Row 1: CIVIL, GENERAL NOTES & LEGEND

Table with 2 columns: SHEET NUMBER, SHEET #. Row 1: C0.1, 1 OF 10

ISSUED FOR SPA
DATE OF: 2021-07-07
REV # 0



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SEAL:

D. D. SEARLE
 100503356
 2021.07.07
 PROVINCE OF ONTARIO

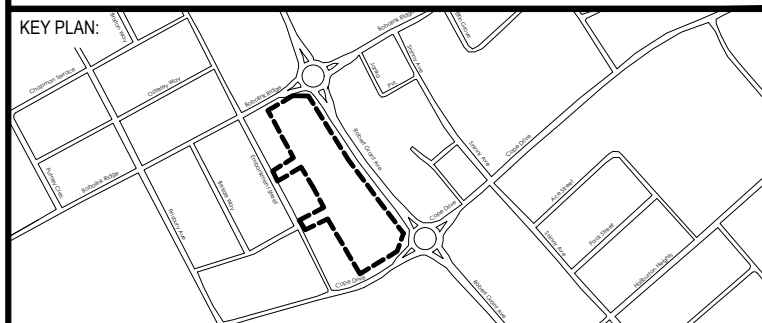
SEAL:

S. P. DAVIDSON
 100133944
 2021.07.07
 PROVINCE OF ONTARIO

CLIENT:

**RICHCRAFT
 Group Of Companies**

CLIENT REF. #
 PROJECT:
TERRACE FLATS



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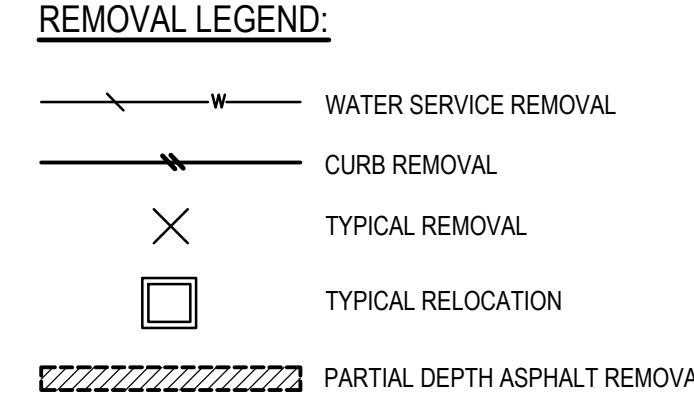
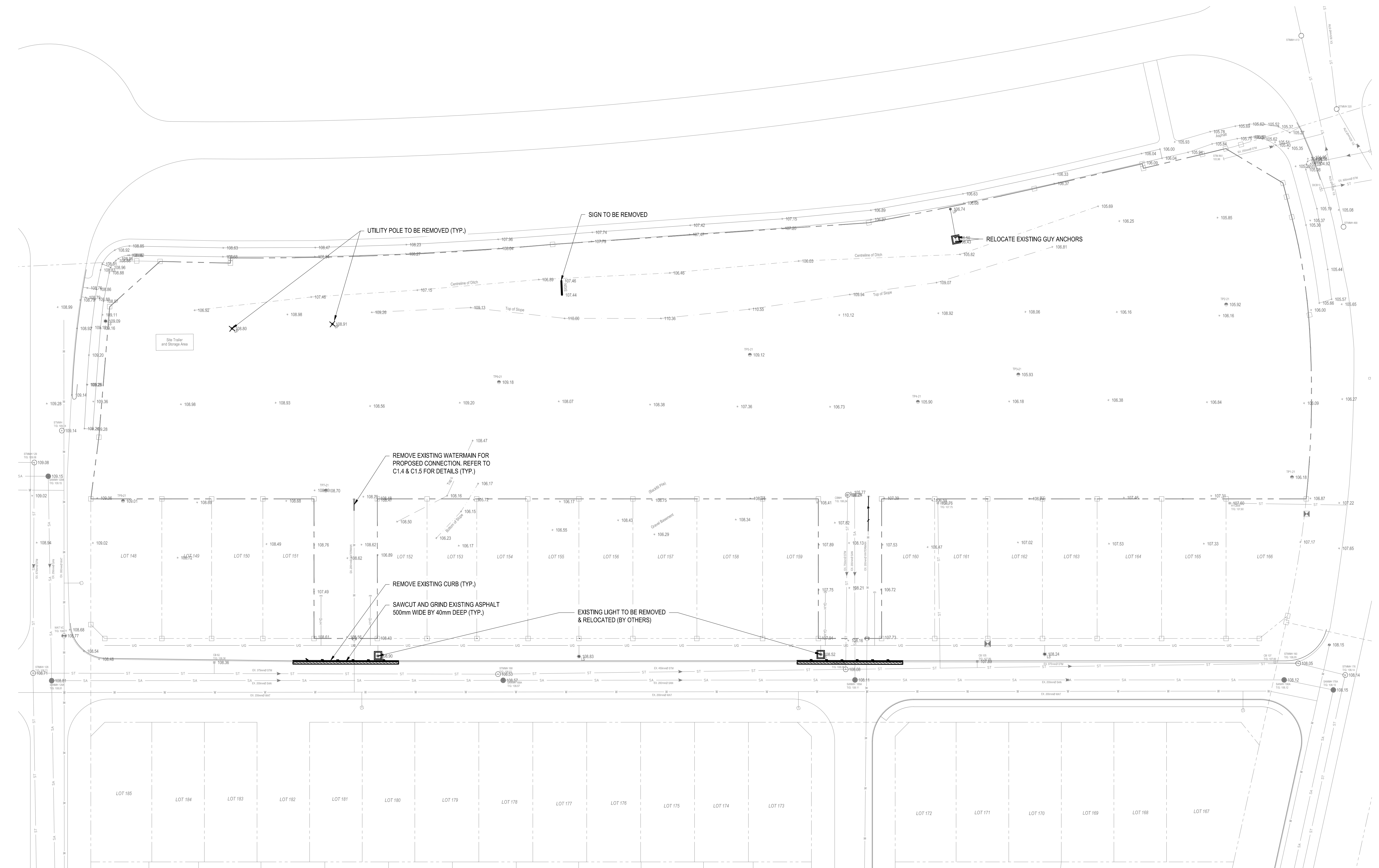
PRELIMINARY
 NOT FOR CONSTRUCTION

IS	RE	DATE	DESCRIPTION
1		2021-07-07	ISSUED FOR SPA

PROJECT NO:	211-01221-00	DATE:	MARCH 2021
ORIGINAL SCALE:	1:400	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTING SCALE.	
DESIGNED BY:	DS		
DRAWN BY:	MHJT		
CHECKED BY:	SD		
DISCIPLINE:	CIVIL		

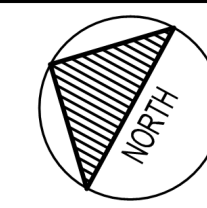
TITLE:	TERRACE FLATS REMOVAL PLAN		
SHEET NUMBER:	R1.0		
SHEET #:	3	OF	10
ISSUE:	ISSUED FOR SPA		REV #
DATE OF:	2021-07-07		0

NOTES:
 1. REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.



M:\2021\211-01221-00 - Richcraft Terrace Flats - Partial Depth Asphalt Removal.dwg, Jul 07, 2021, 11:58am by (CA/DT/4512)

- NOTES:**
1. REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.
 2. ALL CURB RADII SHALL BE 1.0m UNLESS OTHERWISE NOTED.
 3. WATER AND SANITARY SERVICES ARE NOT SHOWN FOR CLARITY.
 4. REFER TO LANDSCAPE DRAWINGS FOR PLANTING DETAILS.



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 2021.07.07
 PROVINCE OF ONTARIO

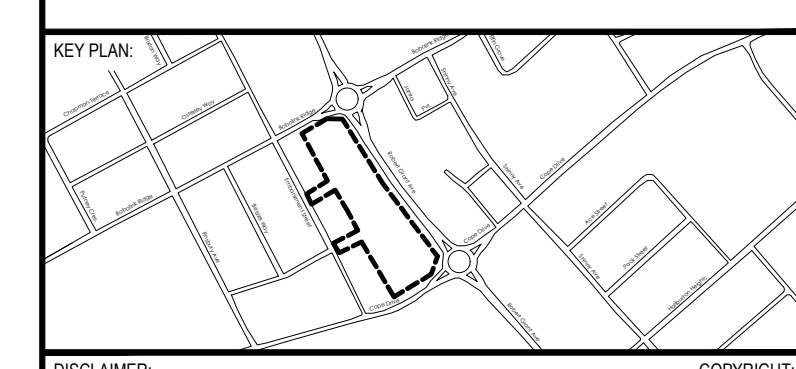
SEAL:

S. P. DAVIDSON
 100133944
 2021.07.07
 PROVINCE OF ONTARIO

CLIENT:

RICHCRAFT
 Group Of Companies

CLIENT REF. #
 PROJECT:
TERRACE FLATS



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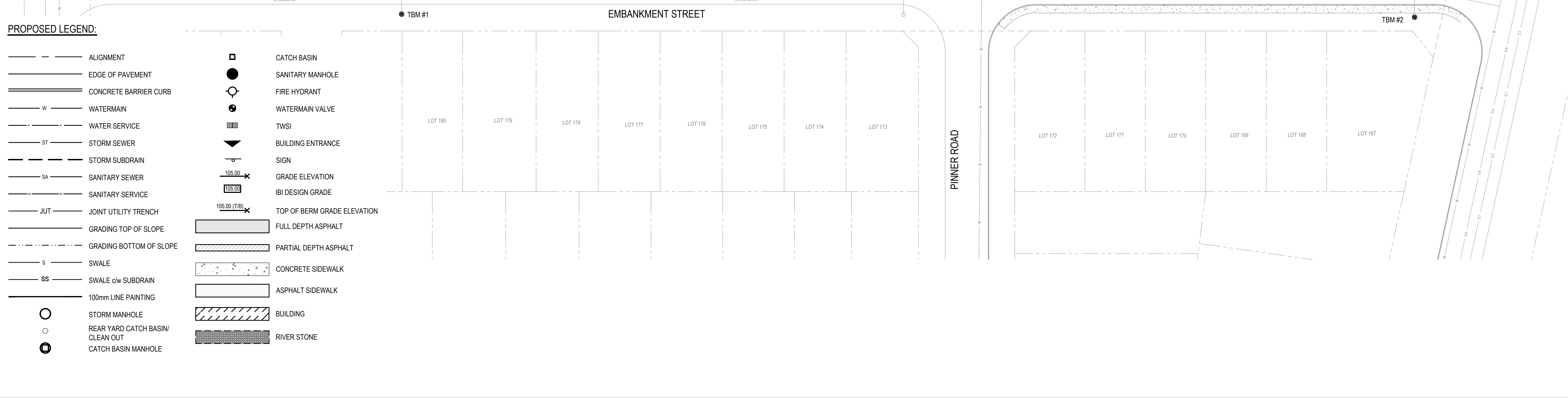
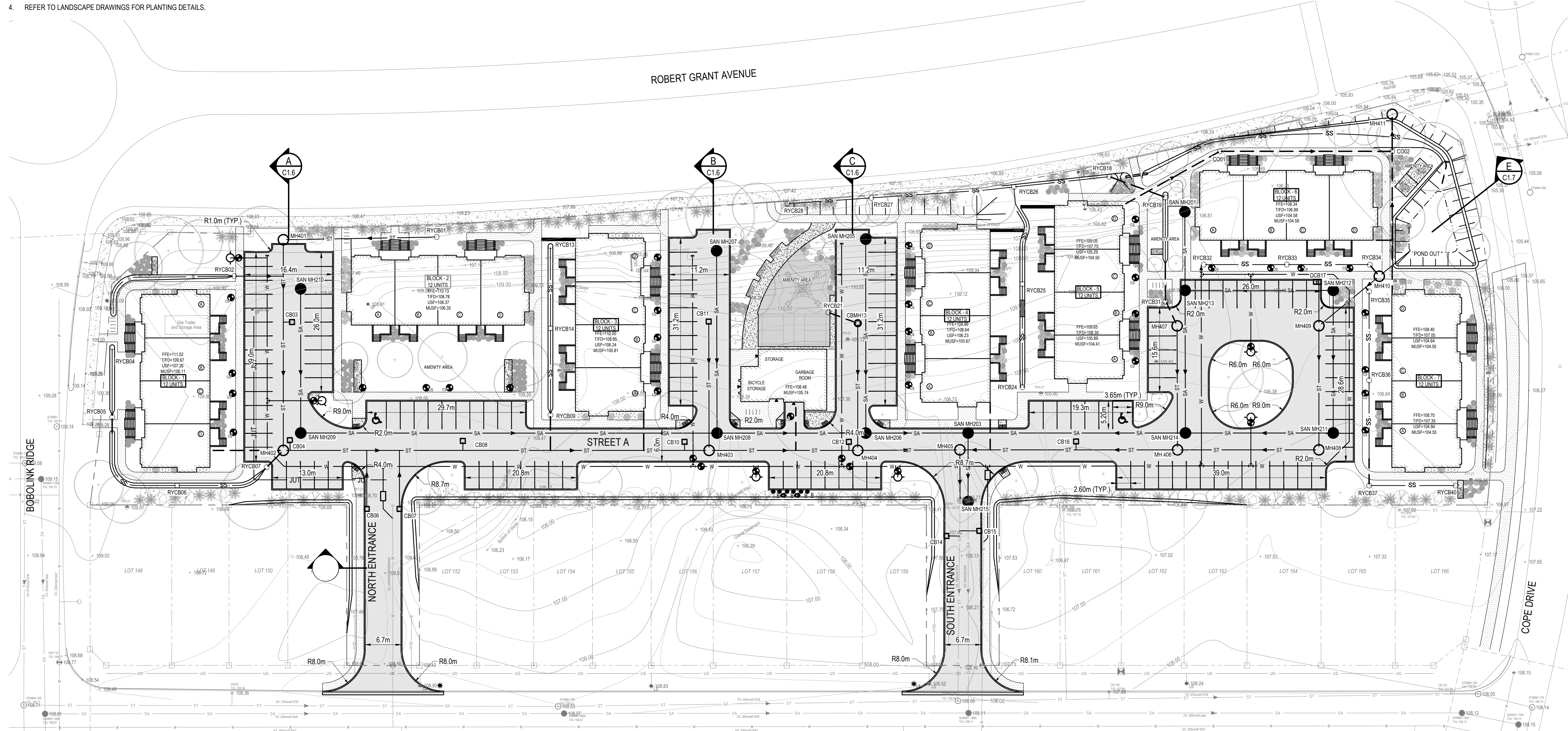
NO.	DATE	DESCRIPTION
1	2021-07-07	ISSUED FOR SPA

IS	RE	DATE	DESCRIPTION
1		2021-07-07	ISSUED FOR SPA

PROJECT NO:	211-01221-00	DATE:	MARCH 2021
ORIGINAL SCALE:	1:400	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	DS	CHECKED BY:	SD
DRAWN BY:	MH	DISCIPLINE:	CIVIL
TITLE:	TERRACE FLATS GENERAL ARRANGEMENT PLAN		
SHEET NUMBER:	C1.1		
SHEET #:	2 OF 10		
ISSUE:	ISSUED FOR SPA		REV #
DATE OF:	2021-07-07		0

PROPOSED LEGEND:

- | | |
|---------------------------------------|-------------------------------|
| — — — — — ALIGNMENT | □ CATCH BASIN |
| — — — — — EDGE OF PAVEMENT | ● SANITARY MANHOLE |
| — — — — — CONCRETE BARRIER CURB | ○ FIRE HYDRANT |
| — W — WATERMAIN | ● WATERMAIN VALVE |
| — — — — — WATER SERVICE | ■ TWSI |
| — ST — STORM SEWER | ▲ BUILDING ENTRANCE |
| — — — — — STORM SUBDRAIN | — SIGN |
| — SA — SANITARY SEWER | — GRADE ELEVATION |
| — — — — — SANITARY SERVICE | — IBI DESIGN GRADE |
| — — — — — JOINT UTILITY TRENCH | — TOP OF BERM GRADE ELEVATION |
| — — — — — GRADING TOP OF SLOPE | ■ FULL DEPTH ASPHALT |
| — — — — — GRADING BOTTOM OF SLOPE | ■ PARTIAL DEPTH ASPHALT |
| — S — SWALE | ■ CONCRETE SIDEWALK |
| — SS — SWALE c/w SUBDRAIN | ■ ASPHALT SIDEWALK |
| — — — — — 100mm LINE PAINTING | ■ BUILDING |
| ○ STORM MANHOLE | ■ RIVER STONE |
| ○ REAR YARD CATCH BASIN/
CLEAN OUT | |
| ● CATCH BASIN MANHOLE | |

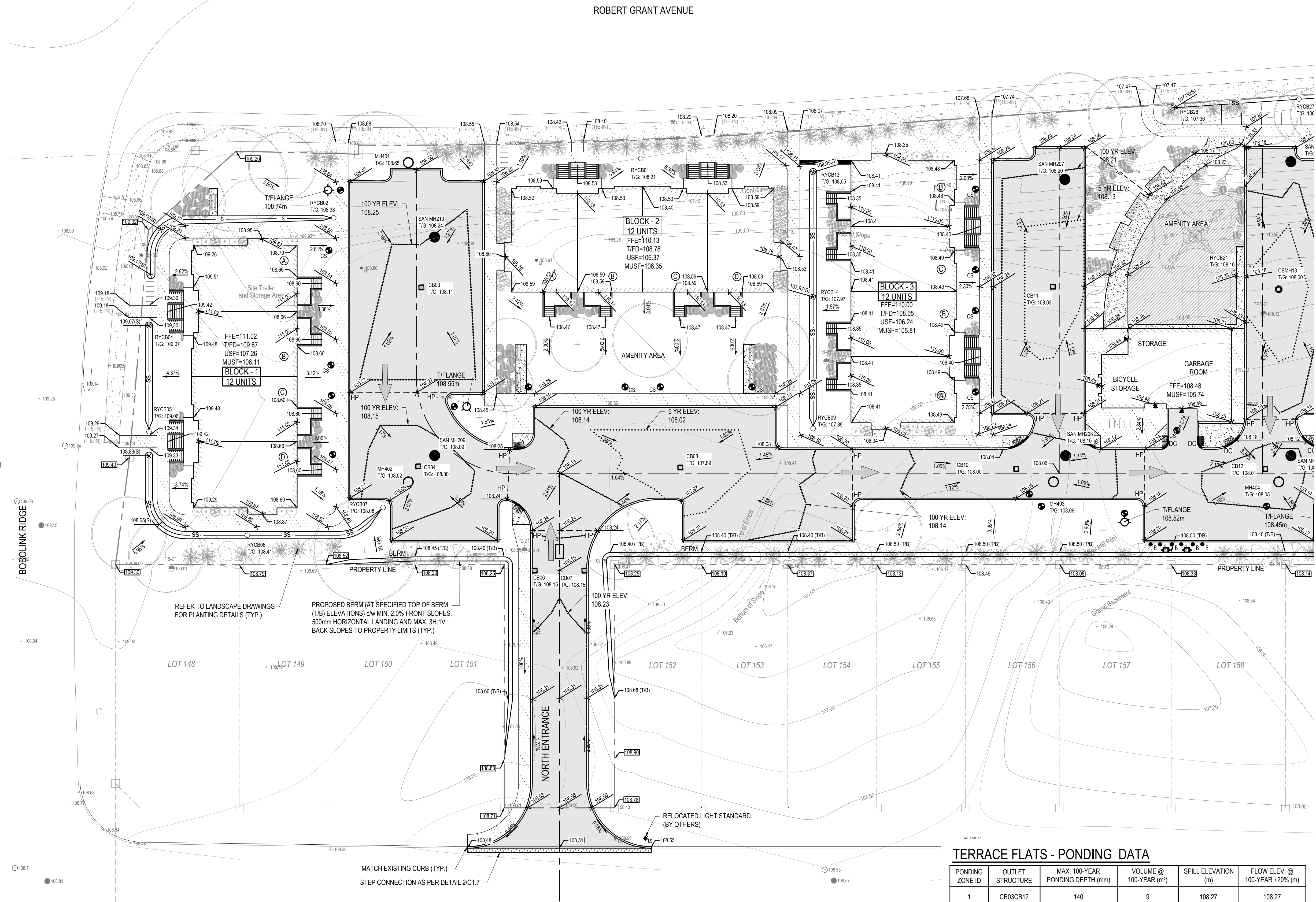


M:\2021\211-01221-00 - Richcraft Terrace Flats Site Plan\Drawings\01_Civil\01_Produced\211-01221-00_GA.dwg Jul 07 2021 12:29pm BY:CAJ\TJH

- NOTES:
- REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.
 - REFER TO DRAWING C0.1 FOR INLET CONTROL DEVICE (ICD) SCHEDULE.

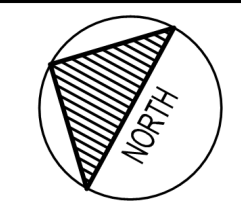
PROPOSED LEGEND:

- ALIGNMENT
- EDGE OF PAVEMENT
- CONCRETE BARRIER CURB
- w WATERMAIN
- WATER SERVICE
- ST STORM SEWER
- STORM SUBDRAIN
- SA SANITARY SEWER
- SANITARY SERVICE
- JUT JOINT UTILITY TRENCH
- GRADING TOP OF SLOPE
- GRADING BOTTOM OF SLOPE
- s SWALE
- SS SWALE c/w SUBDRAIN
- 100mm LINE PAINTING
- STORM MANHOLE
- REAR YARD CATCH BASIN/ CLEAN OUT
- CATCH BASIN MANHOLE
- CATCH BASIN
- SANITARY MANHOLE
- FIRE HYDRANT
- WATERMAIN VALVE
- TWSI
- ▲ BUILDING ENTRANCE
- SIGN
- 105.00 GRADE ELEVATION
- 105.00 (T/B) IBI DESIGN GRADE
- TOP OF BERM GRADE ELEVATION
- FULL DEPTH ASPHALT
- PARTIAL DEPTH ASPHALT
- CONCRETE SIDEWALK
- ASPHALT SIDEWALK
- BUILDING
- RIVER STONE
- MAJOR FLOW ROUTING



TERRACE FLATS - PONDING DATA

PONDING ZONE ID	OUTLET STRUCTURE	MAX 100-YEAR PONDING DEPTH (mm)	VOLUME @ 100-YEAR (m ³)	SPILL ELEVATION (m)	FLOW ELEV. @ 100-YEAR +20% (m)
1	CB03CB12	140	9	108.27	108.27
2	CB04	150	7	108.24	108.19
3	CB06 & CB07	70	3	108.24	108.25
4	CB08	250	27	108.21	108.18
5	CB10	140	5	108.18	108.19
6	CB11	180	20	108.21	108.22



wsp
 1224 GARDINERS ROAD, SUITE 201
 KINGSTON, ONTARIO
 CANADA K7P 0G2
 PHONE: 613-634-7373
 WWW.WSP.COM

CONSULTANT:

M. David Blakely
 Architect Inc.
 2320 Prince of Wales Dr., Suite 101
 Ottawa, Ontario K2E 6Z9
 Phone (613) 226-8811 Fax (613) 226-7942

SEAL:

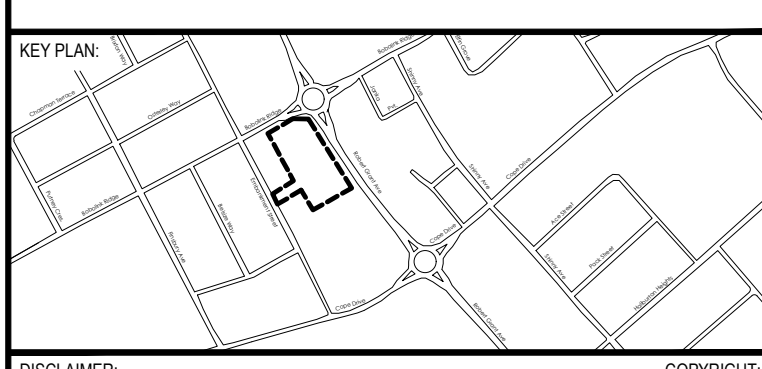
D. D. SEARLE
 100503356
 2021.07.07
 PROVINCE OF ONTARIO

SEAL:

S. P. DAVIDSON
 100133944
 2021.07.07
 PROVINCE OF ONTARIO

RICH CRAFT
 Group Of Companies

CLIENT REF. #
 PROJECT:
TERRACE FLATS



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 NOT FOR CONSTRUCTION

ISSUED FOR - REVISION

NO.	DATE	DESCRIPTION
1	2021-07-07	ISSUED FOR SPA

PROJECT NO: 211-01221-00
 ORIGINAL SCALE: 1:250
 DESIGNED BY: DS
 DRAWN BY: MH
 CHECKED BY: SD

DATE: MARCH 2021

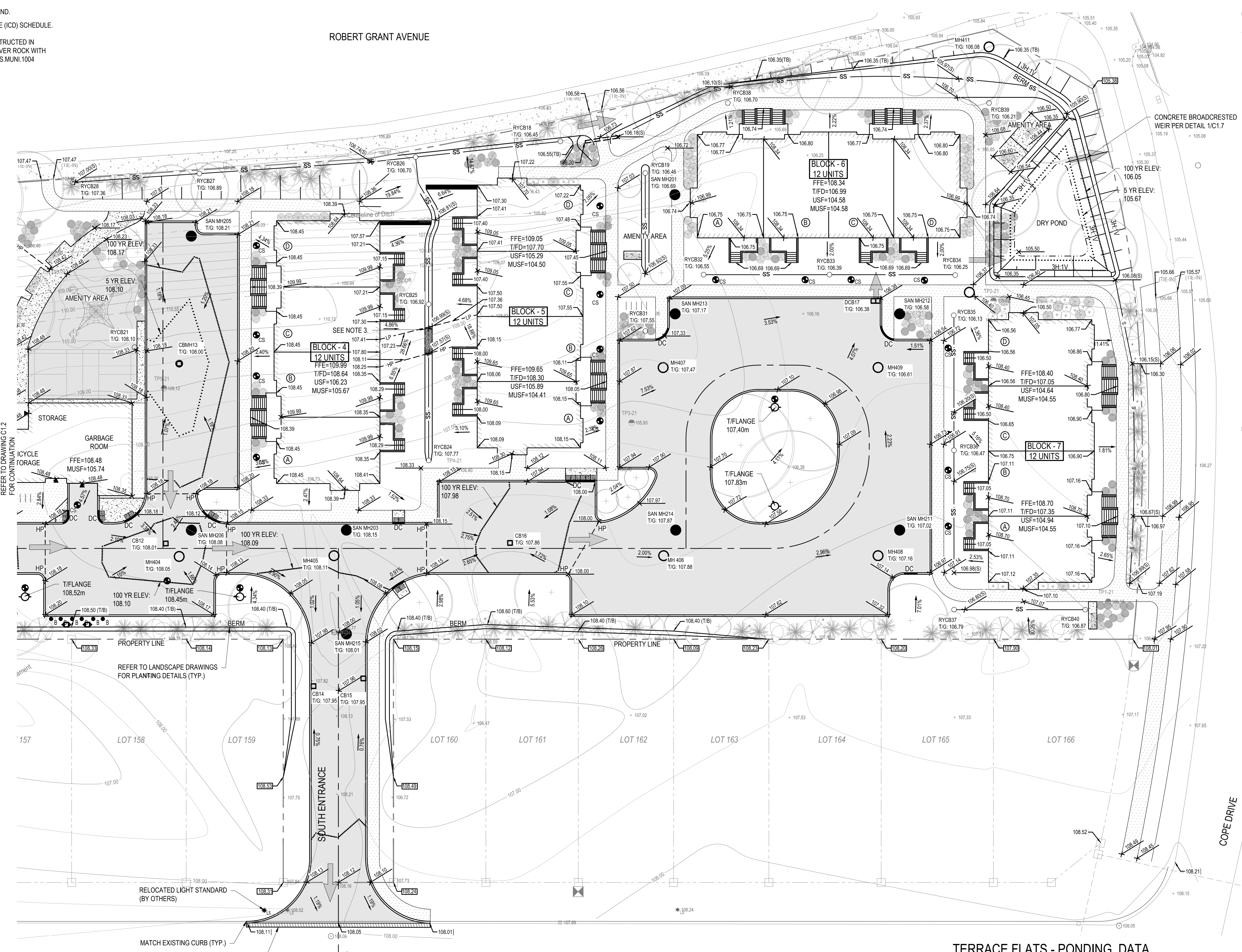
IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.

DISCIPLINE: CIVIL
 TITLE: **TERRACE FLATS NORTH GRADING PLAN**
 SHEET NUMBER: C1.2
 SHEET # 4 OF 10
 ISSUE: ISSUED FOR SPA
 DATE OF: 2021-07-07
 REV # 0

- NOTES:**
- REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.
 - REFER TO DRAWING C0.1 FOR INLET CONTROL DEVICE (ICD) SCHEDULE.
 - RIP-RAP PAD SHALL BE 1.0m x 3.0m x 0.3x DEEP, CONSTRUCTED IN ACCORDANCE WITH OPSD 810.010 (TYPE 'B') USING RIVER ROCK WITH GRADATION MATCHING 53mm CLEAR STONE PER OPSS.MUNI.1004

PROPOSED LEGEND:

- ALIGNMENT
- EDGE OF PAVEMENT
- CONCRETE BARRIER CURB
- W — WATERMAIN
- WATER SERVICE
- ST — STORM SEWER
- STORM SUBDRAIN
- SA — SANITARY SEWER
- SANITARY SERVICE
- JUT — JOINT UTILITY TRENCH
- GRADING TOP OF SLOPE
- GRADING BOTTOM OF SLOPE
- s — SWALE
- SS — SWALE c/w SUBDRAIN
- 100mm LINE PAINTING
- — STORM MANHOLE
- — REAR YARD CATCH BASIN/ CLEAN OUT
- — CATCH BASIN MANHOLE
- — CATCH BASIN
- — SANITARY MANHOLE
- — FIRE HYDRANT
- — WATERMAIN VALVE
- — TWSI
- BUILDING ENTRANCE
- SIGN
- 105.00 — GRADE ELEVATION
- 105.00 (TB) — IBI DESIGN GRADE
- 105.00 (TB) — TOP OF BERM GRADE ELEVATION
- FULL DEPTH ASPHALT
- PARTIAL DEPTH ASPHALT
- CONCRETE SIDEWALK
- ASPHALT SIDEWALK
- BUILDING
- RIVER STONE
- ➔ — MAJOR FLOW ROUTING



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CONSULTANT:
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 Architect Inc.
 2320 Prince of Wales Dr., Suite 101
 Ottawa, Ontario, K2E 6Z9
 Phone: (613) 226-8811 Fax: (613) 226-7942

SEAL:
PROFESSIONAL ENGINEER
 LICENSED PROFESSIONAL ENGINEER
D. D. SEARLE
 100503356
 2021.07.07
 PROVINCE OF ONTARIO

PROFESSIONAL ENGINEER
 LICENSED PROFESSIONAL ENGINEER
S. P. DAVIDSON
 100133944
 2021.07.07
 PROVINCE OF ONTARIO

CLIENT:
RICHCRAFT
 Group Of Companies

CLIENT REF. #
 PROJECT:
TERRACE FLATS

KEY PLAN

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NO.	DATE	DESCRIPTION
1	2021-07-07	ISSUED FOR SPA

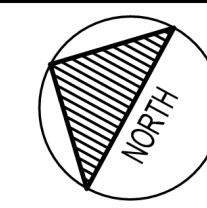
PROJECT NO:	211-01221-00	DATE:	MARCH 2021
ORIGINAL SCALE:	1:250	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	DS		
DRAWN BY:	MH		
CHECKED BY:	SD		
DISCIPLINE:	CIVIL		

TITLE:	TERRACE FLATS SOUTH GRADING PLAN		
SHEET NUMBER:	C1.3		
SHEET #:	5	OF	10
ISSUE:	ISSUED FOR SPA		REV #
DATE OF:	2021-07-07		0

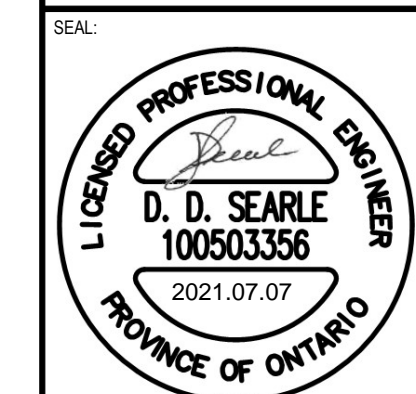
TERRACE FLATS - PONDING DATA

PONDING ZONE ID	OUTLET STRUCTURE	MAX. 100-YEAR PONDING DEPTH (mm)	VOLUME @ 100-YEAR (m³)	SPILL ELEVATION (m)	FLOW ELEV. @ 100-YEAR +20% (m)
7	CB12	90	3	108.12	108.13
8	CB13	170	17	108.18	108.19
9	CB14 & CB15	140	9	108.13	108.13
10	CB16	120	4	108.00	108.01
11	POND OUTLET	550	68	105.97	106.16

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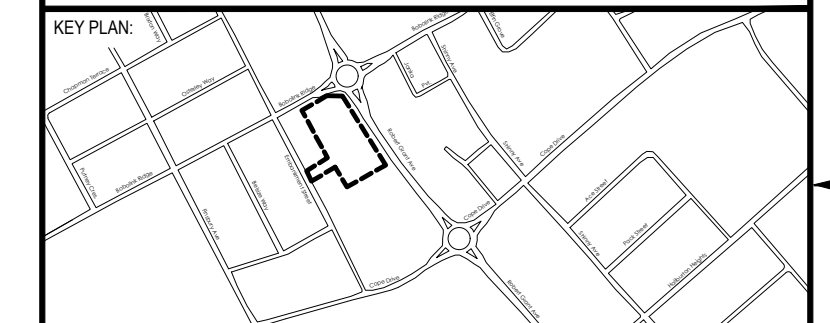


CONSULTANT:
M. David Blakely
 Architect Inc.
 2303 Prince of Wales Dr., Suite 101
 Ottawa, Ontario, K2E 6Z9
 Phone (613) 226-8811 Fax (613) 226-7942



CLIENT:
RICHCRAFT
 Group Of Companies

CLIENT REF. #
 PROJECT:
TERRACE FLATS



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PRELIMINARY
 NOT FOR CONSTRUCTION

ISSUED FOR - REVISION	DATE	DESCRIPTION
1	2021-07-07	ISSUED FOR SPA

PROJECT NO:	DATE:
211-01221-00	MARCH 2021

DESIGNED BY: DS
 DRAWN BY: MH
 CHECKED BY: SD
 DISCIPLINE: CIVIL

TITLE:
TERRACE FLATS
NORTH SERVICING PLAN

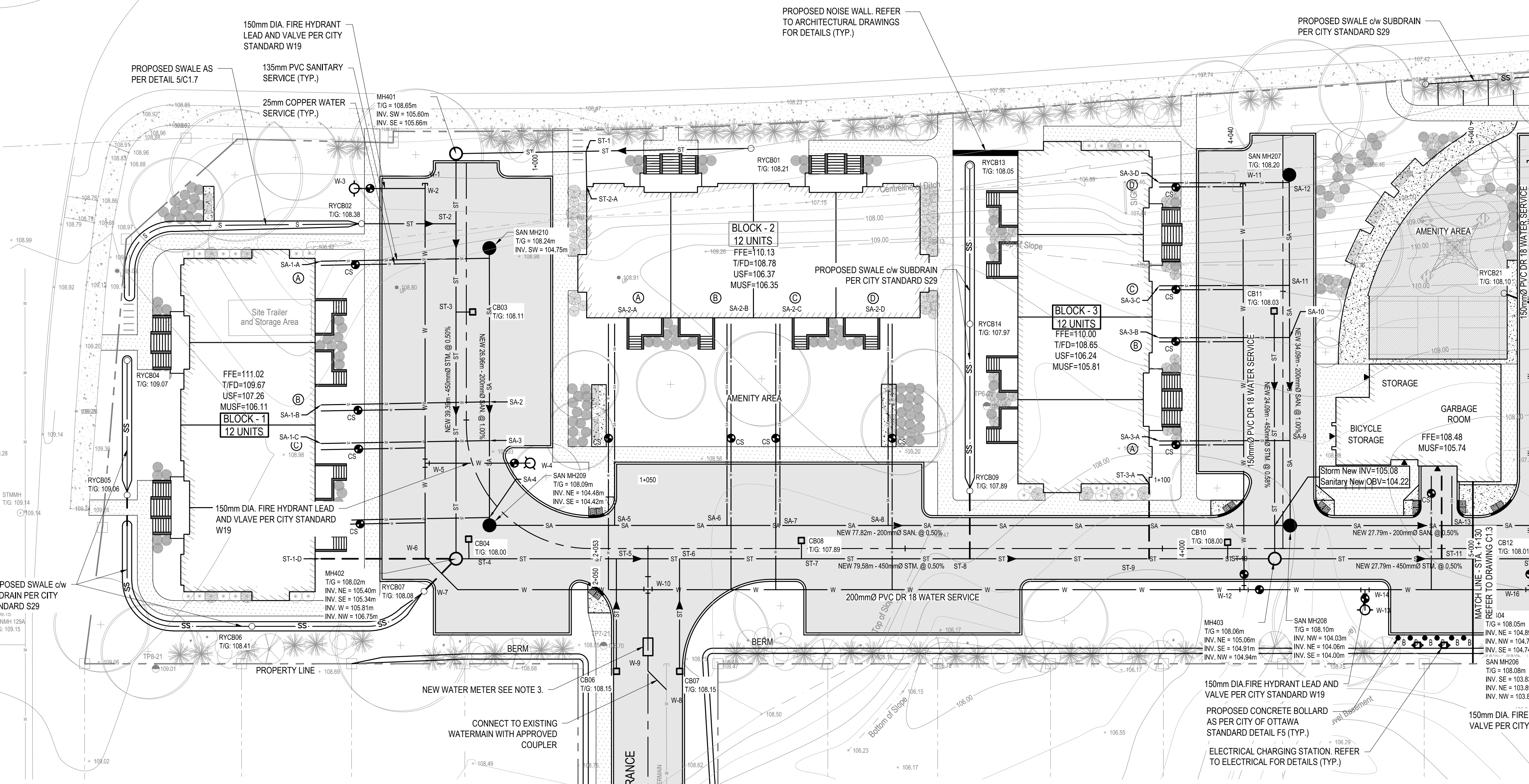
SHEET NUMBER:
C1.4

ISSUED FOR SPA

DATE OF: 2021-07-07

- NOTES:**
- REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.
 - ALL WATER SERVICES SHALL BE 50mmØ COPPER.
 - NEW WATER METER PER CITY OF OTTAWA STANDARD DETAIL W32 HOUSED IN A VALVE CHAMBER PER CITY STANDARD DETAIL W3. METER ASSEMBLY DIMENSIONS TO BE SPECIFIED BY THE CITY.

- PROPOSED LEGEND:**
- ALIGNMENT
 - EDGE OF PAVEMENT
 - CONCRETE BARRIER CURB
 - WATERMAIN
 - WATER SERVICE
 - ST - STORM SEWER
 - ST - STORM SUBDRAIN
 - SA - SANITARY SEWER
 - SA - SANITARY SERVICE
 - JUT - JOINT UTILITY TRENCH
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 - - CATCH BASIN MANHOLE
 - - CATCH BASIN
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 - - FIRE HYDRANT
 - - WATERMAIN VALVE
 - - TWSI
 - ▬ - BUILDING ENTRANCE
 - ▬ - SIGN
 - 105.00 - GRADE ELEVATION
 - 105.00 (TB) - TOP OF BERM GRADE ELEVATION
 - ▬ - FULL DEPTH ASPHALT
 - ▬ - PARTIAL DEPTH ASPHALT
 - ▬ - CONCRETE SIDEWALK
 - ▬ - ASPHALT SIDEWALK
 - ▬ - BUILDING
 - ▬ - RIVER STONE



NUMBER	STATION	Ø OFFSET (m)	TOP OF GRATE	LOW INVERT	STRUCTURE (OPSD)	GRATE (OPSD)	SUMP (m)
SAN MH207	4+036.3	+0.62	108.198	104.401	701.010	S24	0.00
SAN MH208	1+112.4	-2.23	108.096	103.999	701.010	S24	0.00
SAN MH209	1+034.9	+1.79	108.086	104.419	701.010	S24	0.00
SAN MH210	1+008.3	-2.24	108.244	104.750	701.010	S24	0.00

FROM	TO	INLET ELEV. (m)	OUTLET ELEV. (m)	SIZE	LENGTH	SLOPE	CITY STANDARD	MIN. COVER (m)
SA-1-A	SA-1	104.860	104.780	135 mm	16.3 m	0.49%	S6	3.30
SAN MH210	SAN MH209	104.750	104.480	200 mm	27.0 m	1.00%	S6	3.23
SA-1-B	SA-2	104.700	104.620	135 mm	16.3 m	0.49%	S6	3.42
SA-1-C	SA-3	104.685	104.610	135 mm	16.3 m	0.46%	S6	3.47
SA-1-D	SA-4	104.600	104.520	135 mm	16.4 m	0.49%	S6	3.38
SA-3-D	SA-12	104.566	104.440	135 mm	12.6 m	1.00%	S6	3.55
SA-2-A	SA-5	104.521	104.350	135 mm	19.6 m	0.87%	S6	3.70
SA-3-C	SA-11	104.496	104.370	135 mm	12.6 m	1.00%	S6	3.53
SA-2-B	SA-6	104.481	104.310	135 mm	19.6 m	0.87%	S6	3.51
SA-2-C	SA-7	104.451	104.280	135 mm	19.6 m	0.87%	S6	3.51
SA-3-B	SA-10	104.447	104.320	135 mm	12.7 m	1.00%	S6	3.58
SAN MH209	SAN MH208	104.419	104.030	200 mm	77.8 m	0.50%	S6	3.44
SA-2-D	SA-8	104.401	104.230	135 mm	19.6 m	0.87%	S6	3.64
SAN MH207	SAN MH208	104.401	104.060	200 mm	34.1 m	1.00%	S6	3.56
SA-3-A	SA-9	104.337	104.210	135 mm	12.7 m	1.00%	S6	3.78
SAN MH208	SAN MH206	103.999	103.860	200 mm	27.8 m	0.50%	S6	3.89

NUMBER	DESCRIPTION	STATION	Ø OFFSET (m)	FINISHED GRADE	TOP OF WM
W-1	CAP	1+002.0	+4.01	108.46	106.06
W-2	200x150x200mm TEE	1+002.5	+4.01	108.44	107.04
W-3	FH & VB	1+002.5	+10.90	108.53	107.13
W-4	FIRE HYDRANT	1+032.3	-5.13	108.41	106.01
W-5	200x150x200mm TEE	1+028.2	+4.43	108.22	105.82
W-6	45° BEND	1+033.6	+8.51	108.07	105.67
W-7	45° BEND	1+036.2	+8.51	108.08	105.68
W-8	CONNECT TO EX.	2+039.0	+1.80	108.17	106.77
W-9	45° BEND	2+040.8	0.00	108.15	106.75
W-10	200x200x200mm TEE	1+050.0	+4.00	108.22	106.82
W-11	CAP	4+035.5	-3.88	108.20	105.80
W-12	200x150x200mm TEE	1+107.9	+4.00	108.22	105.82
W-13	FH & VB	1+119.7	+6.00	108.32	105.92
W-14	200x150x200mm TEE	1+119.7	+3.98	108.31	105.91

FROM	TO	INLET ELEV. (m)	OUTLET ELEV. (m)	SIZE	LENGTH	SLOPE	CITY STANDARD	MIN. COVER (m)
RYCB04	RYCB05	108.070	107.880	250 mm	13.1 m	1.45%	S6	0.73
RYCB05	RYCB06	107.880	107.410	250 mm	23.0 m	2.04%	S29	0.86
RYCB06	RYCB07	107.410	107.080	250 mm	17.1 m	1.93%	S29	0.73
ST-1-D	MH402	107.010	106.748	250 mm	13.1 m	2.00%	S29	1.00
RYCB13	RYCB14	106.970	106.893	250 mm	15.4 m	0.50%	S29	0.98
RYCB14	RYCB09	106.891	106.810	250 mm	16.2 m	0.50%	S29	1.13
RYCB02	ST-2	106.180	105.810	300 mm	9.2 m	4.03%	S6	1.89
ST-2-A	ST-1	106.104	106.070	250 mm	3.4 m	0.99%	S29	2.20
RYCB09	ST-8	105.960	105.250	300 mm	6.6 m	10.76%	S29	2.06
RYCB07	MH402	105.850	105.806	250 mm	4.4 m	1.00%	S29	1.95
CB03	ST-3	105.816	105.800	300 mm	1.6 m	0.99%	S6	1.99
RYCB01	MH401	105.803	105.660	450 mm	28.7 m	0.50%	S6	1.95
MH401	MH402	105.597	105.400	450 mm	39.4 m	0.50%	S6	2.15
CB06	ST-5	105.540	105.430	300 mm	10.9 m	1.01%	S6	2.30
CB04	ST-4	105.539	105.520	300 mm	1.9 m	0.99%	S6	2.15
CB07	ST-6	105.520	105.410	300 mm	10.9 m	1.01%	S6	2.32
CB08	ST-7	105.368	105.350	300 mm	1.8 m	1.01%	S6	2.21
MH402	MH403	105.340	104.940	450 mm	79.6 m	0.50%	S6	2.22
ST-3-A	ST-9	105.254	105.180	300 mm	7.3 m	1.01%	S29	2.59
CB11	MH403	105.200	105.060	450 mm	24.1 m	0.58%	S6	2.37
ST	ST-11	105.100	105.020	300 mm	8.0 m	1.00%	S6	2.78
MH403	MH404	104.910	104.770	450 mm	27.8 m	0.50%	S6	2.68
CB10	ST-10	104.692	104.675	300 mm	1.6 m	1.09%	S6	3.00

NUMBER	STATION	Ø OFFSET (m)	TOP OF GRATE	LOW INVERT	STRUCTURE (OPSD)	GRATE (OPSD)	SUMP (m)
CB03	1+014.5	-0.62	108.110	105.816	705.010	S19.1	0.60
CB04	1+034.6	+4.17	108.000	105.539	705.010	S19.1	0.60
CB06	2+040.8	-3.06	108.152	105.540	705.010	S19.1	0.60
CB07	2+040.8	+3.08	108.152	105.520	705.010	S19.1	0.60
CB08	1+064.9	-0.78	107.890	105.368	705.010	S19.1	0.60
CB10	1+106.3	-0.61	108.003	104.692	705.010	S19.1	0.60
CB11	4+023.1	-0.85	108.030	105.200	705.010	S19.1	0.60
MH401	1+263.9	+171.59	108.650	105.597	701.010	S24.1	0.30
MH402	1+034.9	+6.38	108.020	105.340	701.010	S24.1	0.30
MH403	1+110.9	+1.00	108.056	104.910	701.010	S24.1	0.30
RYCB01	1+060.0	-8.90	108.210	105.803	S31	S31	0.00
RYCB02	1+005.9	+10.19	108.380	106.180	S30	S30	0.00
RYCB04	1+019.2	+32.97	109.070	108.070	S31	S31	0.00
RYCB05	1+027.3	+33.49	109.058	107.880	S30	S30	0.00
RYCB06	1+031.9	+26.23	108.413	107.410	S30	S30	0.00
RYCB07	1+034.9	+10.82	108.085	105.850	S30	S30	0.00
RYCB09	1+081.3	-5.60	107.890	105.960	S30	S30	0.00
RYCB13	1+081.3	-37.21	108.050	106.970	S30	S30	0.00
RYCB14	1+081.3	-21.83	107.970	106.891	S30	S30	0.00

M:\2021\211-01221-00 - Richcraft Terrace Flats Site Plan\DWG\01_Civil01_Produced\211-01221-00_SERVICING.dwg, Jul 07, 2021, 1:26pm by CAJ\TJ4512

- NOTES:**
- REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.
 - ALL WATER SERVICES SHALL BE 50mmØ COPPER.
 - NEW WATER METER PER CITY OF OTTAWA STANDARD DETAIL W32 HOUSED IN A VALVE CHAMBER PER CITY STANDARD DETAIL W3. METER ASSEMBLY DIMENSIONS TO BE SPECIFIED BY THE CITY.

ROBERT GRANT AVENUE

4.0m LONG - 300mm HDPE CULVERT
@ 0.5% SLOPE PER CITY STANDARD F-4211
N INV. = 106.20
S INV. = 106.18

PROPOSED SWALE c/w SUBDRAIN PER
DETAIL 4/C1.7

CONNECT TO EXISTING
STORM SEWER STUB
AT ELEVATION 103.96m

DAYLIGHT SUBDRAIN
AS PER OPSD 206.050

PROPOSED SWALE c/w
SUBDRAIN PER CITY
STANDARD S29

PROPOSED SWALE c/w
SUBDRAIN PER CITY
STANDARD S29

PROPOSED SWALE c/w
SUBDRAIN PER CITY
STANDARD S29

PROPOSED SWALE c/w
SUBDRAIN PER CITY
STANDARD S29

PROPOSED SWALE c/w
SUBDRAIN PER CITY
STANDARD S29

PROPOSED SWALE c/w
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STANDARD S29

PROPOSED SWALE c/w
SUBDRAIN PER CITY
STANDARD S29

PROPOSED SWALE c/w
SUBDRAIN PER CITY
STANDARD S29

PROPOSED SWALE c/w
SUBDRAIN PER CITY
STANDARD S29

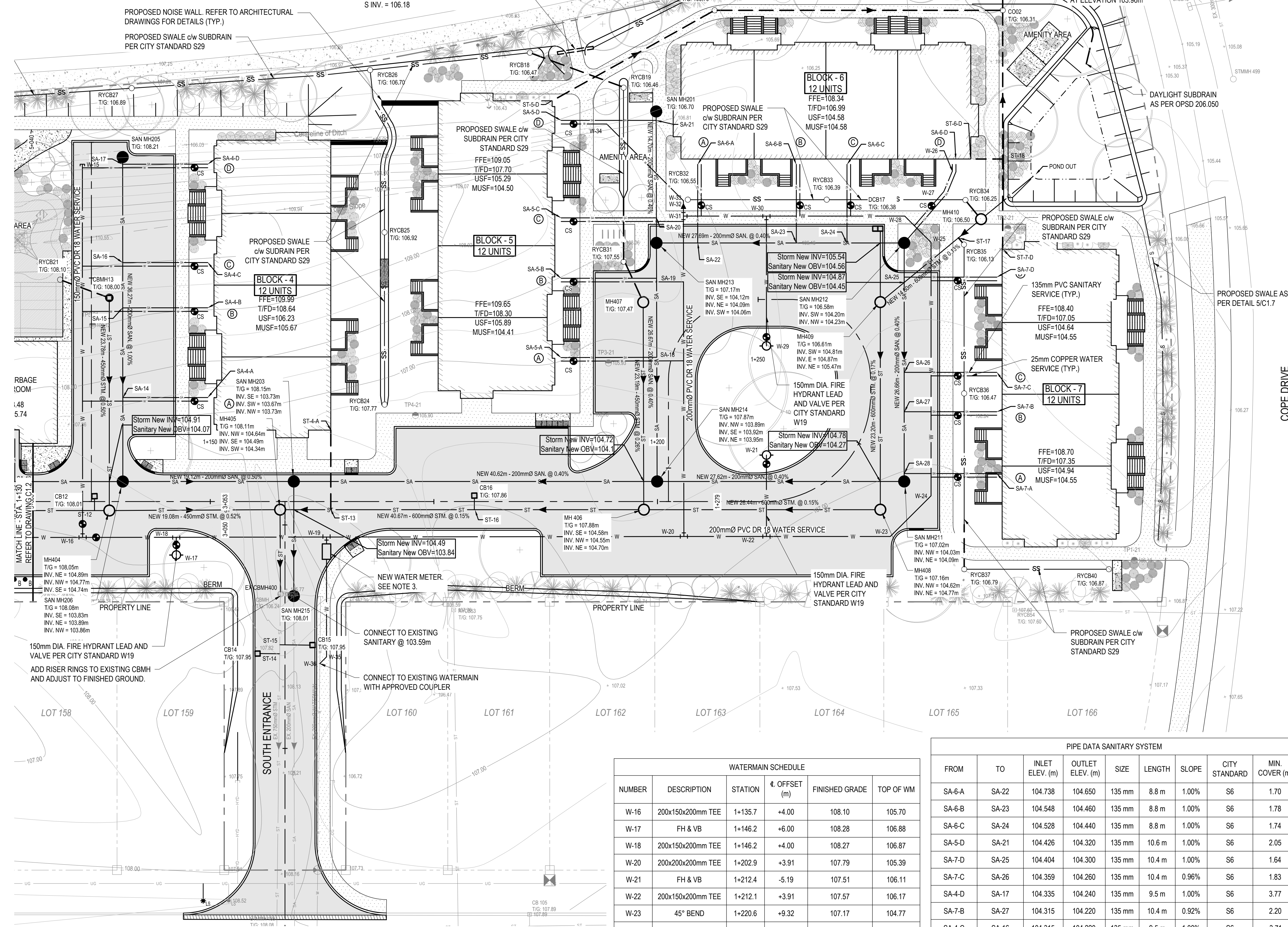
PROPOSED SWALE c/w
SUBDRAIN PER CITY
STANDARD S29

PROPOSED SWALE c/w
SUBDRAIN PER CITY
STANDARD S29

PROPOSED SWALE c/w
SUBDRAIN PER CITY
STANDARD S29

PROPOSED SWALE c/w
SUBDRAIN PER CITY
STANDARD S29

PROPOSED SWALE c/w
SUBDRAIN PER CITY
STANDARD S29



STRUCTURE DATA STORM SYSTEM							
NUMBER	STATION	± OFFSET (m)	TOP OF GRATE	LOW INVERT	STRUCTURE (OPSD)	GRATE (OPSD)	SUMP (m)
CB12	1+137.1	-0.60	108.010	104.997	705.010	S19.1	0.60
CB14	3+035.6	-3.06	107.950	104.648	705.010	S19.1	0.60
CB15	3+036.6	+3.08	107.950	104.648	705.010	S19.1	0.60
CB16	1+179.5	-0.67	107.860	104.716	705.010	S19.1	0.60
CBMH13	5+022.8	+1.99	108.000	105.010	701.010	S19.1	0.60
CO01	1+251.8	+32.51	106.700	104.472	S30	S30	0.00
CO02	1+241.7	+38.67	106.311	104.090	S30	S30	0.00
DCB17	1+241.6	+10.69	106.380	105.552	705.020	S19.1	0.60
MH406	1+198.5	+0.90	107.878	104.550	701.011	S24.1	0.30
MH404	1+138.7	+1.00	108.051	104.740	701.010	S24.1	0.30
MH405	1+157.8	+0.90	108.108	104.340	701.012	S24.1	0.30
MH407	1+259.4	+5.68	107.473	104.760	701.010	S24.1	0.30
MH408	1+221.3	+6.37	107.164	104.620	701.011	S24.1	0.30
MH409	1+238.7	+4.31	106.613	104.810	701.011	S24.1	0.30
MH410	1+238.6	+18.91	106.496	104.889	701.010	S24.1	0.30
MH411	1+242.3	+44.78	106.081	103.960	701.010	S24.1	0.30
RYCB18	1+256.3	+35.04	106.470	105.392	S30	S30	0.00
RYCB19	1+254.8	+26.56	106.456	105.215	S30	S30	0.00
RYCB21	5+024.8	-3.51	108.100	105.980	S31	S31	0.00
RYCB24	1+169.5	-10.84	107.770	106.093	S31	S31	0.00
RYCB25	1+169.5	-30.10	106.920	105.872	S30	S30	0.00
RYCB26	1+259.0	+45.73	106.696	105.630	S30	S30	0.00
RYCB27	1+141.2	-46.22	106.889	105.927	S30	S30	0.00
RYCB31	1+258.4	+10.26	107.545	104.960	S30	S30	0.00
RYCB32	1+254.0	+12.28	106.550	105.345	S31	S31	0.00
RYCB33	1+244.6	+11.56	106.395	105.155	S30	S30	0.00
RYCB34	1+239.5	+19.07	106.252	104.978	S30	S30	0.00
RYCB35	1+238.2	+15.63	106.130	105.110	S30	S30	0.00
RYCB36	1+230.8	+10.45	106.469	105.306	S30	S30	0.00
RYCB37	1+222.1	+17.78	106.790	104.725	S30	S30	0.00
RYCB40	1+225.1	+31.30	106.871	103.632	S31	S31	0.00

PIPE DATA STORM SYSTEM								
FROM	TO	INLET ELEV. (m)	OUTLET ELEV. (m)	SIZE	LENGTH	SLOPE	CITY STANDARD	MIN. COVER (m)
RYCB24	RYCB25	106.093	105.900	250 mm	19.3 m	1.00%	S29	0.76
RYCB21	CBMH13	105.980	105.921	250 mm	5.9 m	1.00%	S29	1.82
RYCB27	RYCB26	105.927	105.660	250 mm	26.7 m	1.00%	S29	0.70
RYCB25	RYCB26	105.872	105.690	250 mm	18.2 m	1.00%	S29	0.75
RYCB26	RYCB18	105.630	105.450	250 mm	18.0 m	1.00%	S29	0.76
DCB17	MH409	105.552	105.470	300 mm	8.2 m	1.00%	S6	0.53
POND OUT	MH410	105.500	105.189	300 mm	8.0 m	3.90%	S6	-0.31
RYCB18	RYCB19	105.392	105.280	250 mm	11.2 m	1.00%	S29	0.82
RYCB32	RYCB33	105.345	105.190	250 mm	15.5 m	1.00%	S29	0.95
RYCB36	RYCB35	105.306	105.140	250 mm	16.6 m	1.00%	S29	0.67
RYCB19	RYCB31	105.215	105.020	250 mm	19.5 m	1.00%	S29	0.98
RYCB33	RYCB34	105.155	105.000	250 mm	15.5 m	1.00%	S29	0.98
RYCB35	ST-17	105.110	105.100	250 mm	1.0 m	1.00%	S29	0.85
CBMH13	MH404	105.010	104.890	450 mm	23.8 m	0.50%	S6	2.53
CB12	ST-12	104.997	104.980	300 mm	1.6 m	1.03%	S6	2.70
RYCB34	MH410	104.978	104.950	250 mm	2.8 m	1.00%	S29	1.02
RYCB31	MH407	104.960	104.910	250 mm	5.0 m	1.00%	S29	2.22
MH410	MH409	104.889	104.870	600 mm	14.6 m	0.13%	S6	0.74
MH409	MH408	104.810	104.770	600 mm	23.2 m	0.17%	S6	1.10
ST-4-A	ST-13	104.790	104.700	300 mm	8.9 m	1.01%	S29	3.10
MH407	MH406	104.760	104.700	450 mm	23.2 m	0.26%	S6	2.25
MH404	MH405	104.740	104.640	450 mm	19.1 m	0.52%	S6	2.85
RYCB37	RYCB36	104.725	105.340	250 mm	19.7 m	-3.13%	S29	0.87
CB16	ST-16	104.716	104.700	300 mm	1.6 m	1.00%	S6	2.84
ST-5-D	CO01	104.708	104.500	250 mm	20.8 m	1.00%	S29	1.72
CB15	ST-15	104.648	104.572	300 mm	3.7 m	2.07%	S6	2.99
CB14	ST-14	104.648	104.576	300 mm	2.5 m	2.88%	S6	2.99
MH408	MH406	104.620	104.580	600 mm	26.4 m	0.15%	S6	1.84
MH406	MH405	104.550	104.490	600 mm	40.7 m	0.15%	S6	2.62
CO01	CO02	104.472	104.150	250 mm	32.2 m	1.00%	S29	1.78
MH405	EX CBMH400	104.340	104.330	750 mm	9.4 m	0.11%	S6	2.80
ST-7-D	CO02	104.340	104.120	250 mm	26.7 m	0.82%	S29	1.79
ST-6-D	ST-18	104.300	104.260	250 mm	3.6 m	1.12%	S29	1.84
CO02	MH411	104.090	104.020	250 mm	6.9 m	1.01%	S29	1.82
RYCB40	RYCB37	103.632	103.416	250 mm	16.2 m	1.34%	S29	2.98

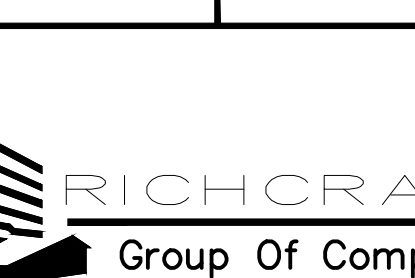
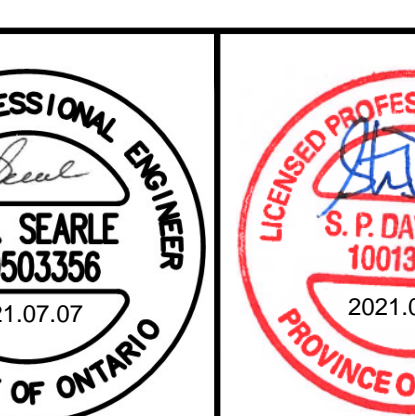
PIPE DATA SANITARY SYSTEM								
FROM	TO	INLET ELEV. (m)	OUTLET ELEV. (m)	SIZE	LENGTH	SLOPE	CITY STANDARD	MIN. COVER (m)
SA-6-A	SA-22	104.738	104.650	135 mm	8.8 m	1.00%	S6	1.70
SA-6-B	SA-23	104.548	104.460	135 mm	8.8 m	1.00%	S6	1.78
SA-6-C	SA-24	104.528	104.440	135 mm	8.8 m	1.00%	S6	1.74
SA-5-D	SA-21	104.426	104.320	135 mm	10.6 m	1.00%	S6	2.05
SA-7-D	SA-25	104.404	104.300	135 mm	10.4 m	1.00%	S6	1.64
SA-7-C	SA-26	104.359	104.260	135 mm	10.4 m	0.96%	S6	1.83
SA-4-D	SA-17	104.335	104.240	135 mm	9.5 m	1.00%	S6	3.77
SA-7-B	SA-27	104.315	104.220	135 mm	10.4 m	0.92%	S6	2.20
SA-4-C	SA-16	104.315	104.220	135 mm	9.5 m	1.00%	S6	3.71
SA-5-C	SA-20	104.306	104.200	135 mm	10.6 m	1.00%	S6	2.76
SA-7-A	SA-28	104.298	104.200	135 mm	10.4 m	0.94%	S6	2.40
SA-4-B	SA-15	104.265	104.170	135 mm	9.5 m	1.00%	S6	3.74
SAN MH205	SAN MH206	104.253	103.890	200 mm	36.3 m	1.00%	S6	3.72
SA-5-B	SA-19	104.217	104.110	135 mm	10.7 m	1.00%	S6	3.08
SA-5-A	SA-18	104.177	104.070	135 mm	10.7 m	1.00%	S6	3.43
SA-4-A	SA-14	104.165	104.070	135 mm	9.5 m	1.00%	S6	3.92
SAN MH201	SAN MH213	104.149	104.090	200 mm	14.7 m	0.40%	S6	2.34
SAN MH213	SAN MH214	104.057	103.950	200 mm	26.7 m	0.40%	S6	2.91
SAN MH214	SAN MH203	103.892	103.730	200 mm	40.6 m	0.40%	S6	3.77
SAN MH206	SAN MH203	103.826	103.730	200 mm	19.1 m	0.50%	S6	4.05
SAN MH203	SAN MH215	103.671	103.620	200 mm	12.8 m	0.40%	S6	4.18

WATERMAIN SCHEDULE					
NUMBER	DESCRIPTION	STATION	± OFFSET (m)	FINISHED GRADE	TOP OF WM
W-16	200x150x200mm TEE	1+135.7	+4.00	108.10	105.70
W-17	FH & VB	1+146.2	+6.00	108.28	106.88
W-18	200x150x200mm TEE	1+146.2	+4.00	108.27	106.87
W-20	200x200x200mm TEE	1+202.9	+3.91	107.79	105.39
W-21	FH & VB	1+212.4	-5.19	107.51	106.11
W-22	200x150x200mm TEE	1+212.1	+3.91	107.57	106.17
W-23	45° BEND	1+220.6	+9.32	107.17	104.77
W-24	45° BEND	1+224.1	+9.92	106.94	104.54
W-25	45° BEND	1+239.2	+13.01	106.61	104.21
W-26	22.5° BEND	1+240.5	+20.56	106.72	104.32
W-27	22.5° BEND	1+240.3	+18.18	106.51	104.11
W-28	45° BEND	1+240.9	+13.35	106.44	104.04
W-29	FIRE HYDRANT	1+249.1	-5.20	107.19	104.79
W-30	200x150x200mm TEE	1+249.1	+9.32	106.69	104.29
W-31	200x25x200mm TEE	1+254.4	+10.73	106.94	104.54
W-32	REDUCER	1+254.2	+11.99	106.66	104.26
W-33	45° BEND	1+254.2	+12.34	106.62	104.22
W-34	45° BEND	1+255.6	+23.74	106.90	104.50
W-35	45° BEND	1+163.0	+17.36	108.13	105.73
W-36	CONNECT TO EX.	1+162.3	+18.11	108.12	105.72

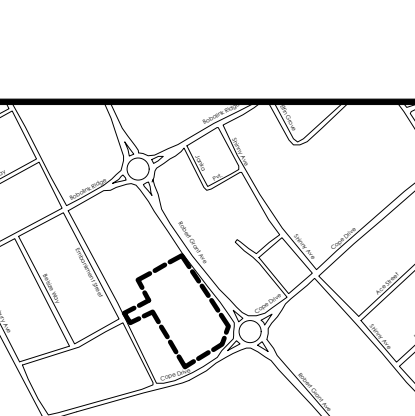
STRUCTURE DATA SANITARY SYSTEM							
NUMBER	STATION	± OFFSET (m)	TOP OF GRATE	LOW INVERT	STRUCTURE (OPSD)	GRATE (OPSD)	SUMP (m)
SAN MH201	1+254.0	+22.76	106.698	104.149	701.010	S24	0.00
SAN MH203	1+159.3	-2.25	108.145	103.671	701.010	S24	0.00
SAN MH205	5+038.5	+3.49	108.205	104.253	701.010	S24	0.00
SAN MH206	1+140.2	-2.24	108.081	103.826	701.010	S24	0.00
SAN MH211	1+224.0	+6.52	107.023	104.030	701.010	S24	0.00
SAN MH212	1+240.2	+10.93	106.580	104.197	701.010	S24	0.00
SAN MH213	1+256.4	+9.48	107.169	104.057	701.010	S24	0.00
SAN MH214	1+276.5	+1.27	107.872	103.892	701.010	S24	0.00
SAN MH215	3+042.0	+0.98	108.006	103.590	701.010	S24	0.00

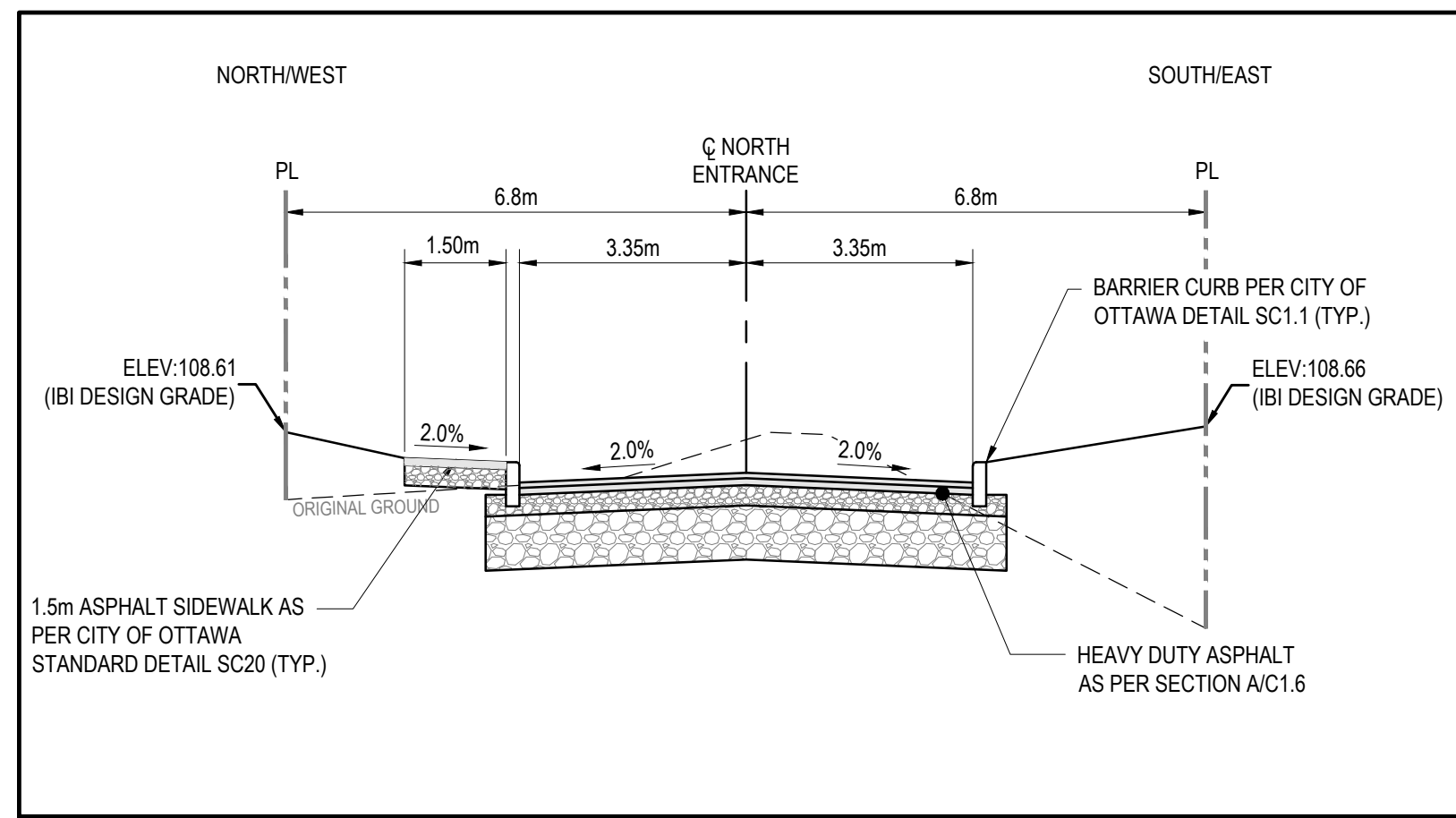


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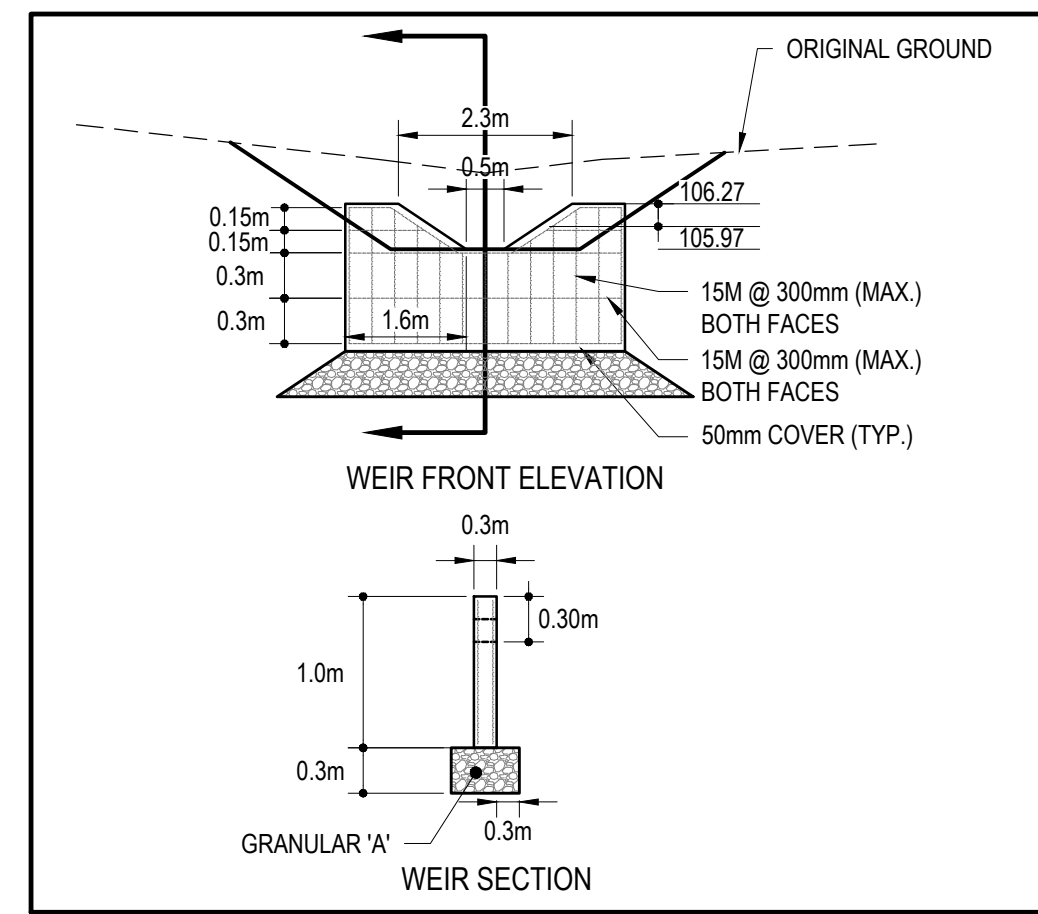


TERRACE FLATS

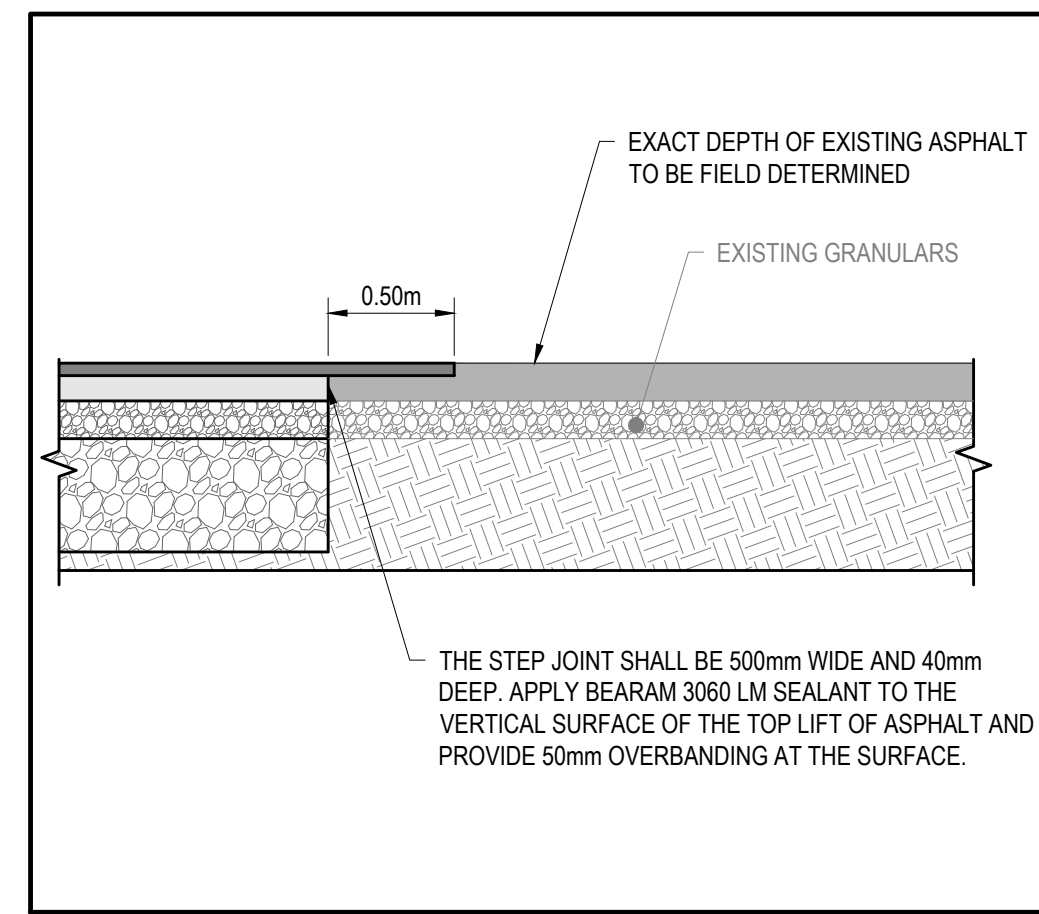




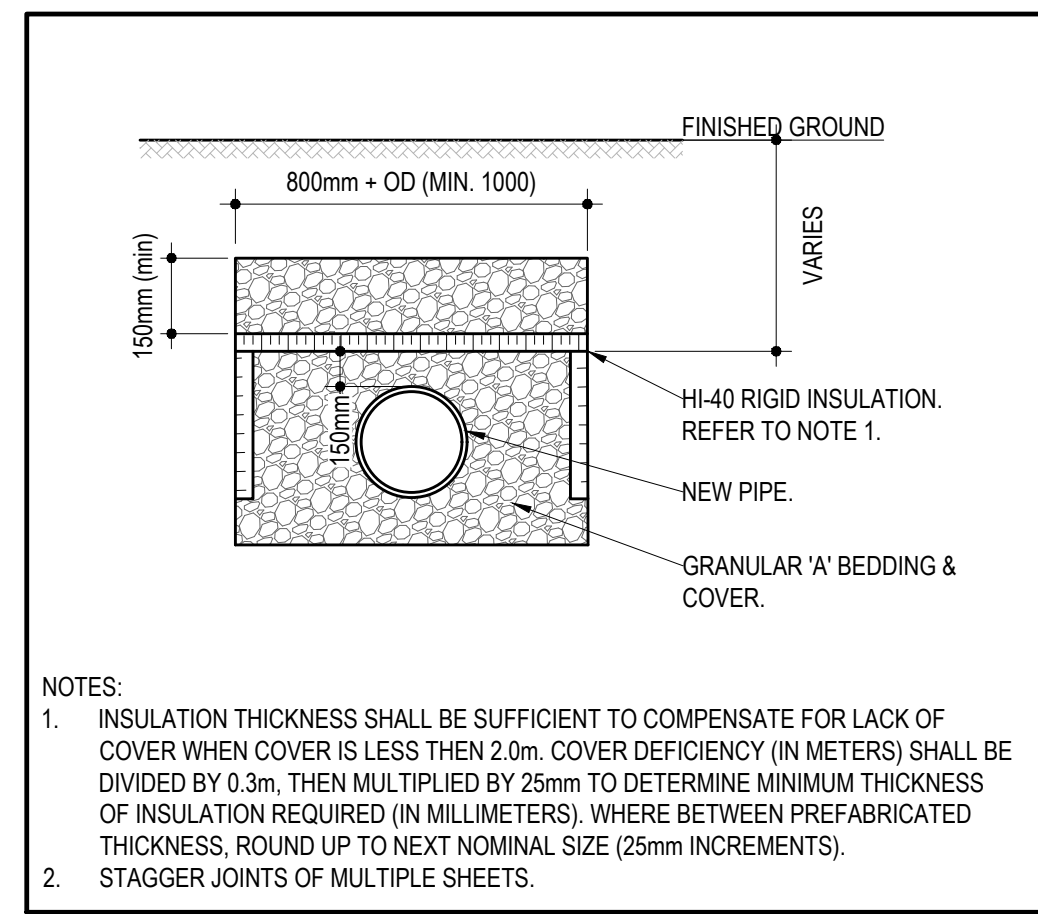
D SECTION D
SCALE: H 1:100 V 1:50



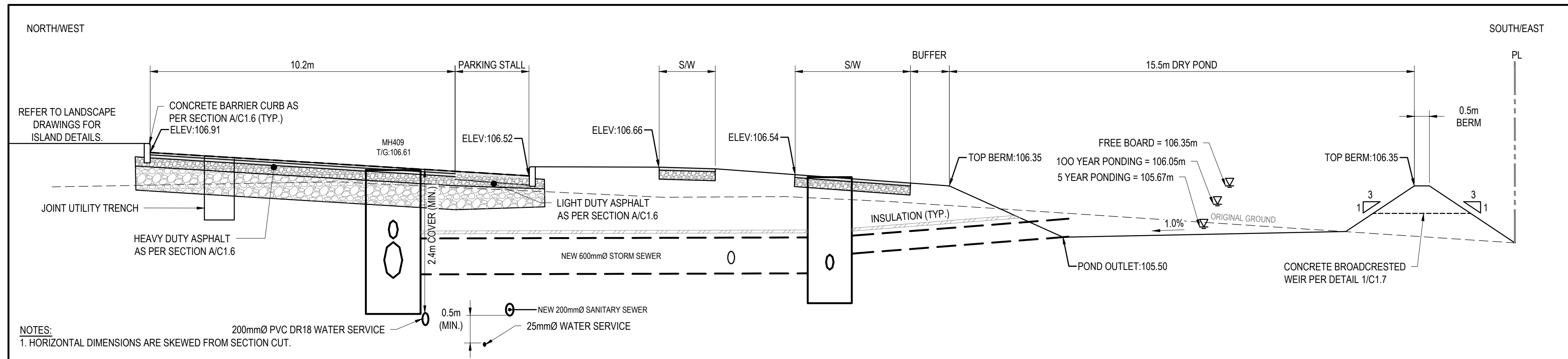
1 CONCRETE WEIR DETAIL
SCALE: H 1:100 V 1:50



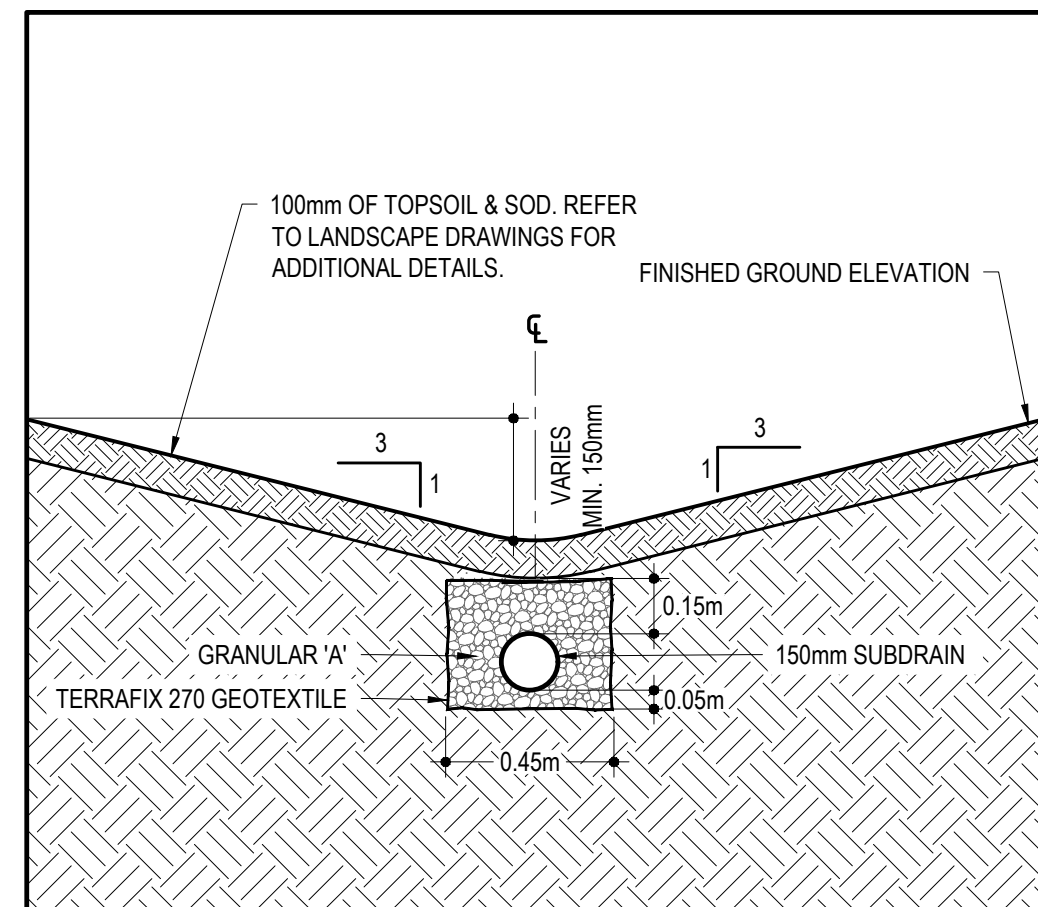
2 TYPICAL STEP CONNECTION
SCALE: 1:30



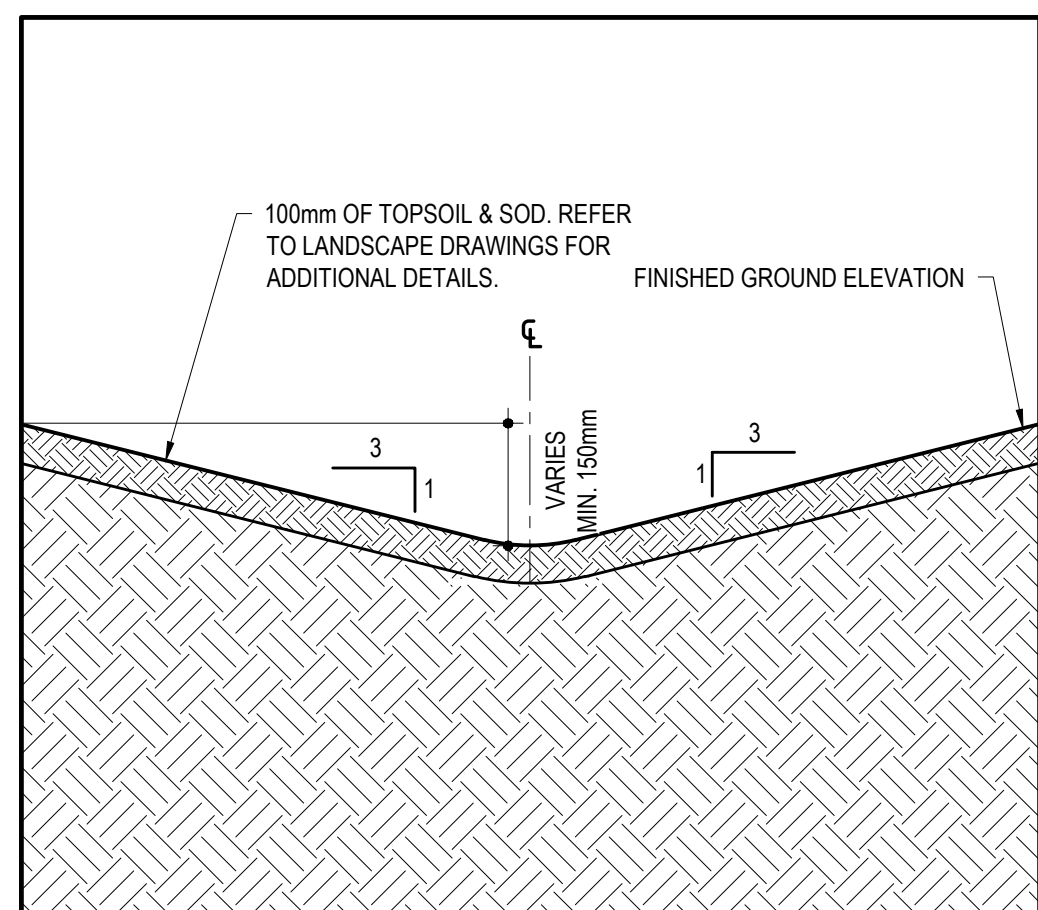
3 FROST PROTECTION DETAIL (SEWERS)
SCALE: 1:20



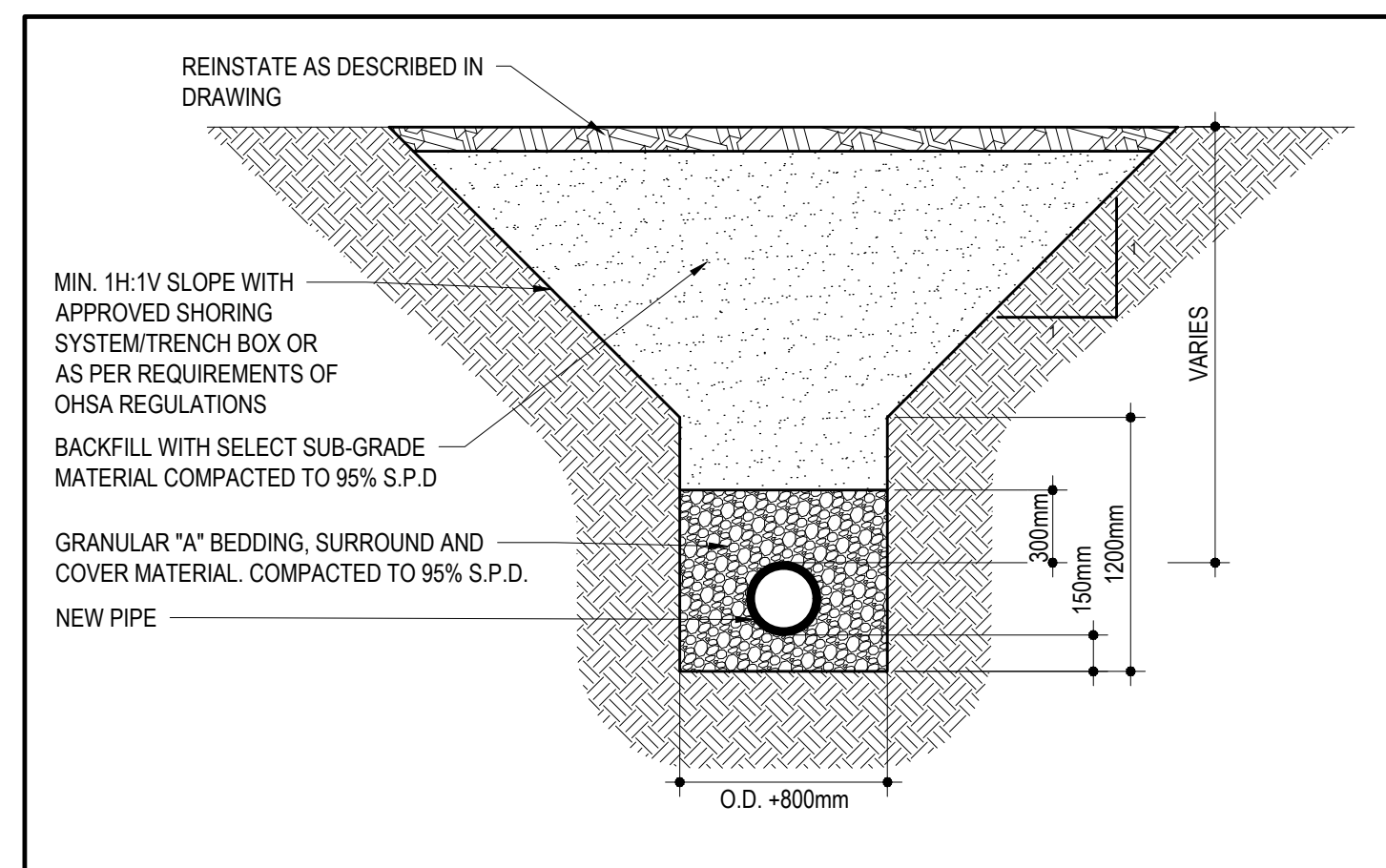
E SECTION E
SCALE: H 1:100 V 1:50



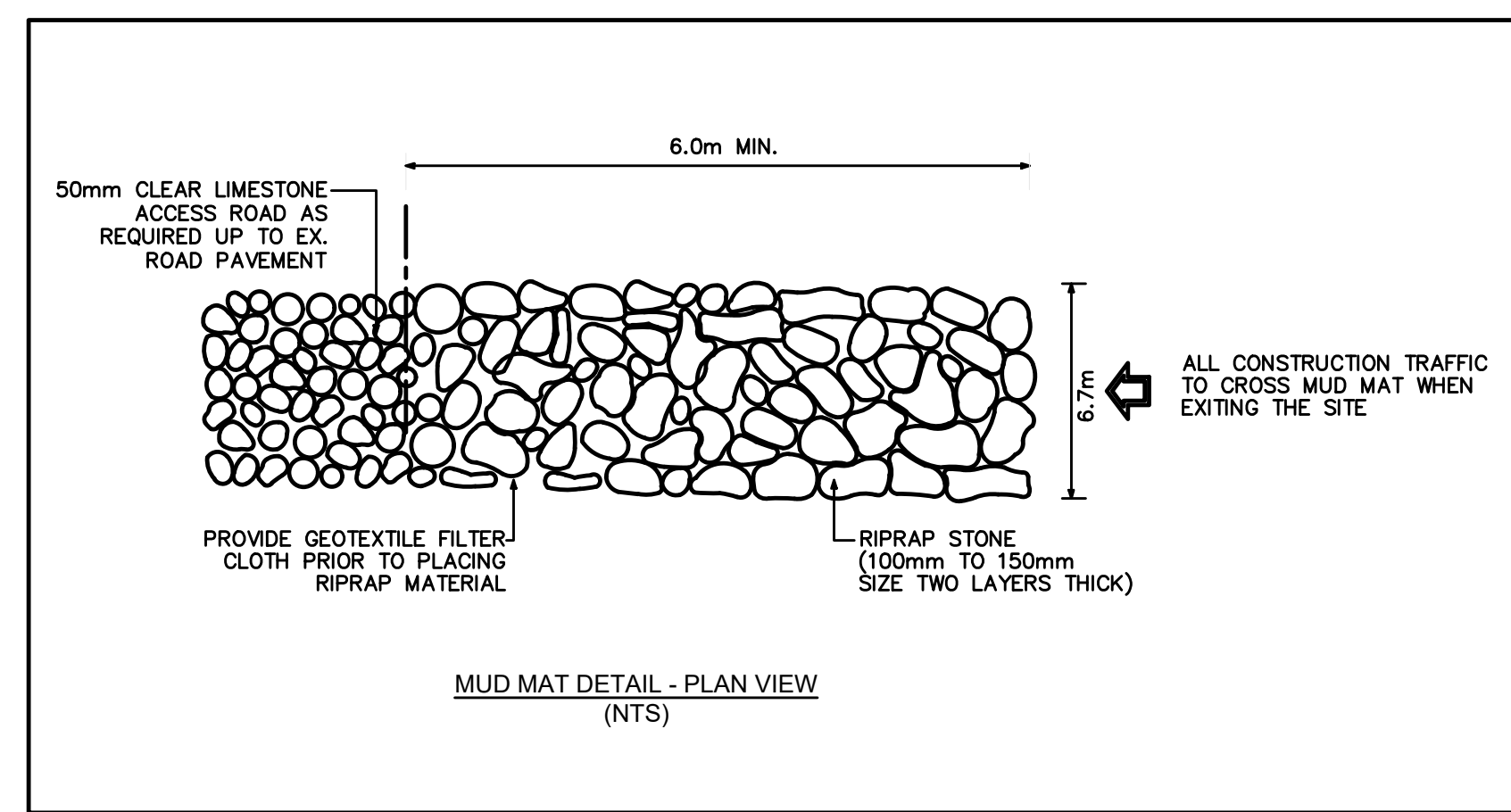
4 TYPICAL SWALE WITH SUBDRAIN
SCALE: 1:20



5 TYPICAL SWALE WITHOUT SUBDRAIN
SCALE: 1:20



6 TYPICAL TRENCH DETAIL
SCALE: NTS

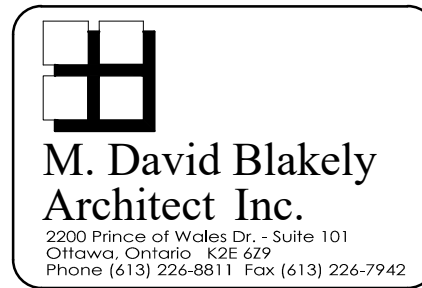


7 MUD MAT DETAIL
SCALE: NTS



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CONSULTANT:



SEAL:



CLIENT:

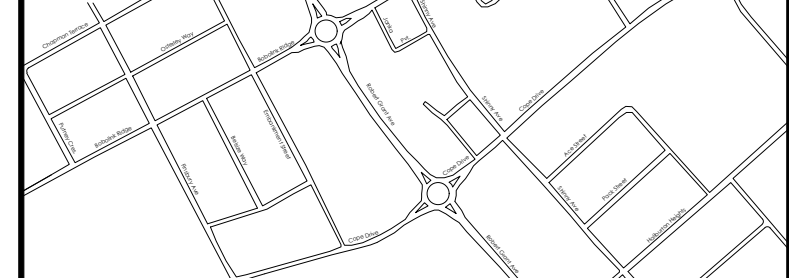


CLIENT REF. #

PROJECT:

TERRACE FLATS

KEY PLAN



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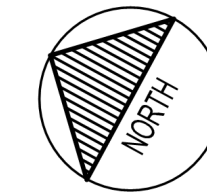
NO.	DATE	DESCRIPTION
1	2021-07-07	ISSUED FOR SPA

IS	RE	DATE	DESCRIPTION
PROJECT NO:	211-01221-00	DATE:	MARCH 2021
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DESIGNED BY:	DS		
DRAWN BY:	MHJT		
CHECKED BY:	SD		

DISCIPLINE:	CIVIL
TITLE:	TERRACE FLATS DETAILS & SECTIONS II
SHEET NUMBER:	C1.7
SHEET #:	9 OF 10
ISSUE:	ISSUED FOR SPA
DATE OF:	2021-07-07
REV #:	0

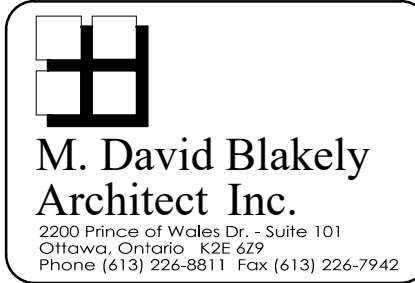
NOTES:

1. REFER TO DRAWING C0.1 FOR NOTES AND LEGEND.



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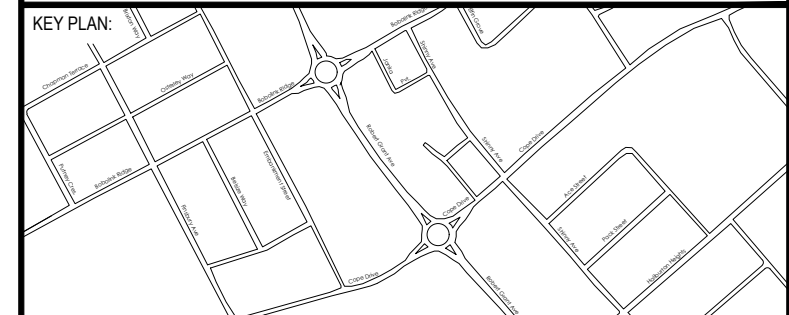
CLIENT:



CLIENT REF. #

PROJECT:

TERRACE FLATS



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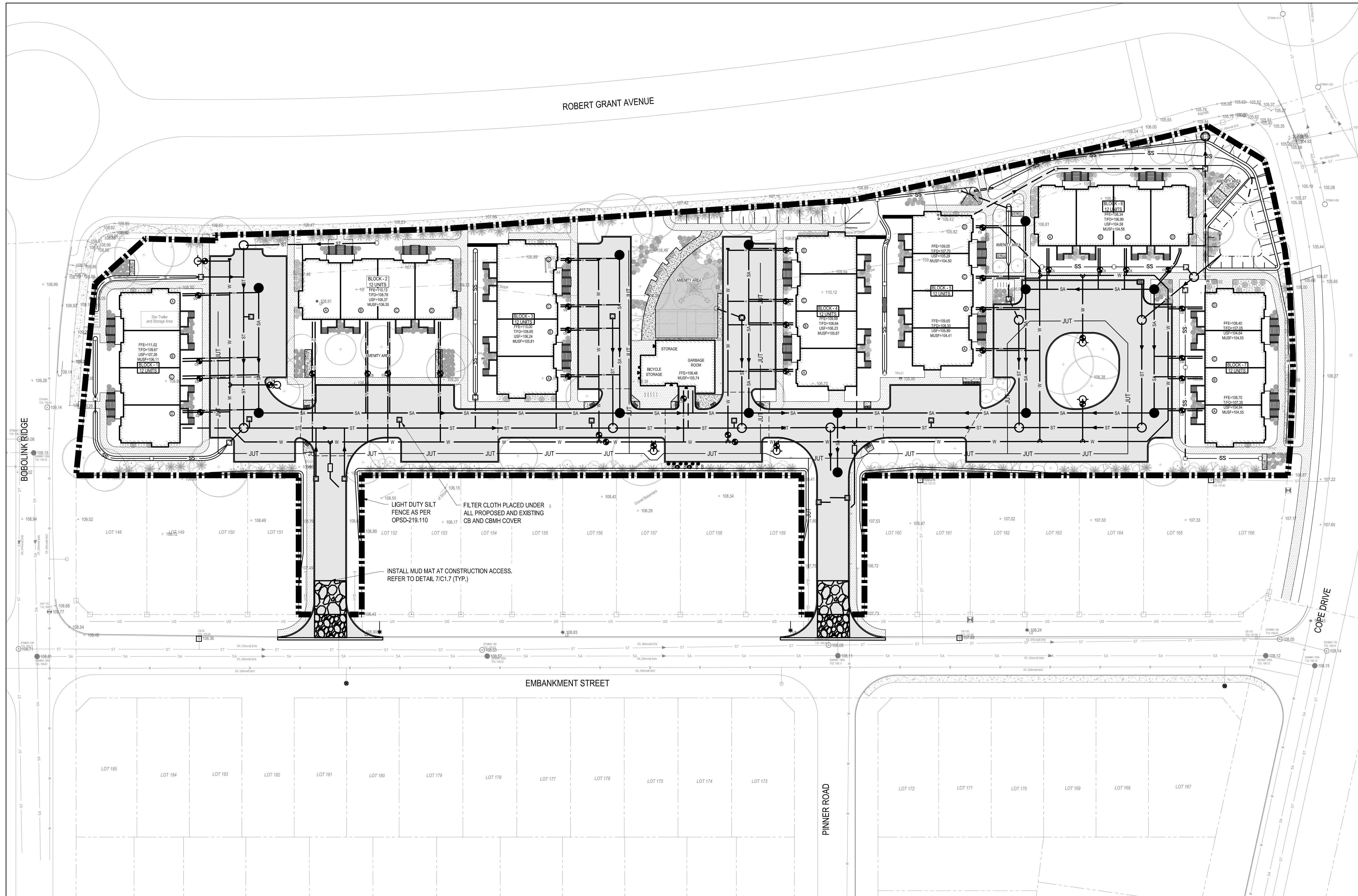
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NO.	DATE	DESCRIPTION
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PROJECT NO:	211-01221-00	DATE:	MARCH 2021
ORIGINAL SCALE:	1:400	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	DS		
DRAWN BY:	MHJT		
CHECKED BY:	SD		
DISCIPLINE:	CIVIL		

TITLE:	TERRACE FLATS SEDIMENT AND EROSION CONTROL PLAN		
SHEET NUMBER:	C1.8		
SHEET #:	10	OF	10
ISSUE:	ISSUED FOR SPA		REV #
DATE OF:	2021-07-07		0



LIGHT DUTY SILT FENCE AS PER OPSPD-219.110
 FILTER CLOTH PLACED UNDER ALL PROPOSED AND EXISTING CB AND CBMH COVER
 INSTALL MUD MAT AT CONSTRUCTION ACCESS. REFER TO DETAIL 7/C1.7 (TYP.)

M:\2021\211-01221-00 - Richcraft Terrace Flats Site Plan\Drawings\01_Civil01_Preliminary\211-01221-00 SEDIMENT & CONTROL PLAN.dwg, Jul 07, 2021 11:21 am BY: CAJ0704873