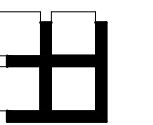
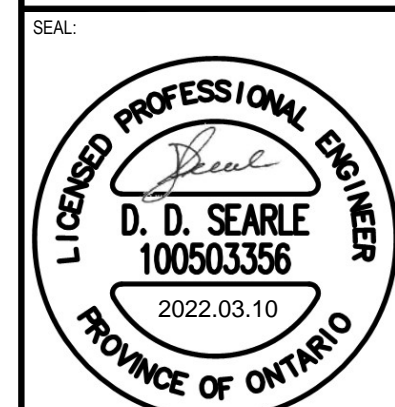


- NOTES:**
1. REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.
 2. ALL CURB RADII SHALL BE 1.0m UNLESS OTHERWISE NOTED.
 3. WATER AND SANITARY SERVICES ARE NOT SHOWN FOR CLARITY.
 4. REFER TO LANDSCAPE DRAWINGS FOR PLANTING DETAILS.

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SEAL:

D. D. SEARLE
 100503356
 2022.03.10
 PROVINCE OF ONTARIO

SEAL:

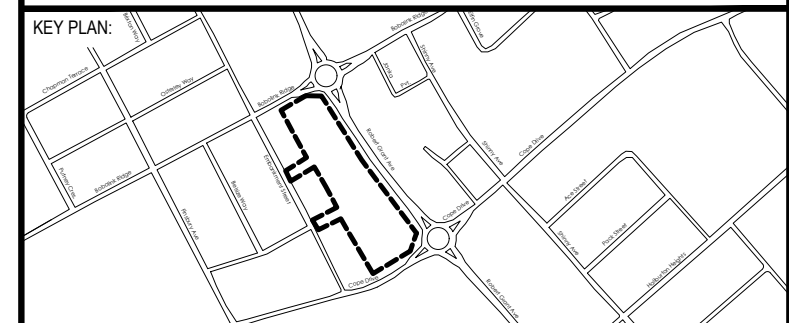
S. P. DAVIDSON
 100133944
 2022.03.10
 PROVINCE OF ONTARIO

CLIENT:

RICHCRAFT
 Group Of Companies

CLIENT REF. #
 PROJECT:

TERRACE FLATS



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NO.	DATE	DESCRIPTION
4	2022-03-10	RE-ISSUED FOR SPA
3	2022-01-31	RE-ISSUED FOR SPA
2	2021-10-15	RE-ISSUED FOR SPA
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

DRAWN BY: MH

CHECKED BY: SD

DISCIPLINE: CIVIL

TITLE:
TERRACE FLATS
GENERAL ARRANGEMENT PLAN

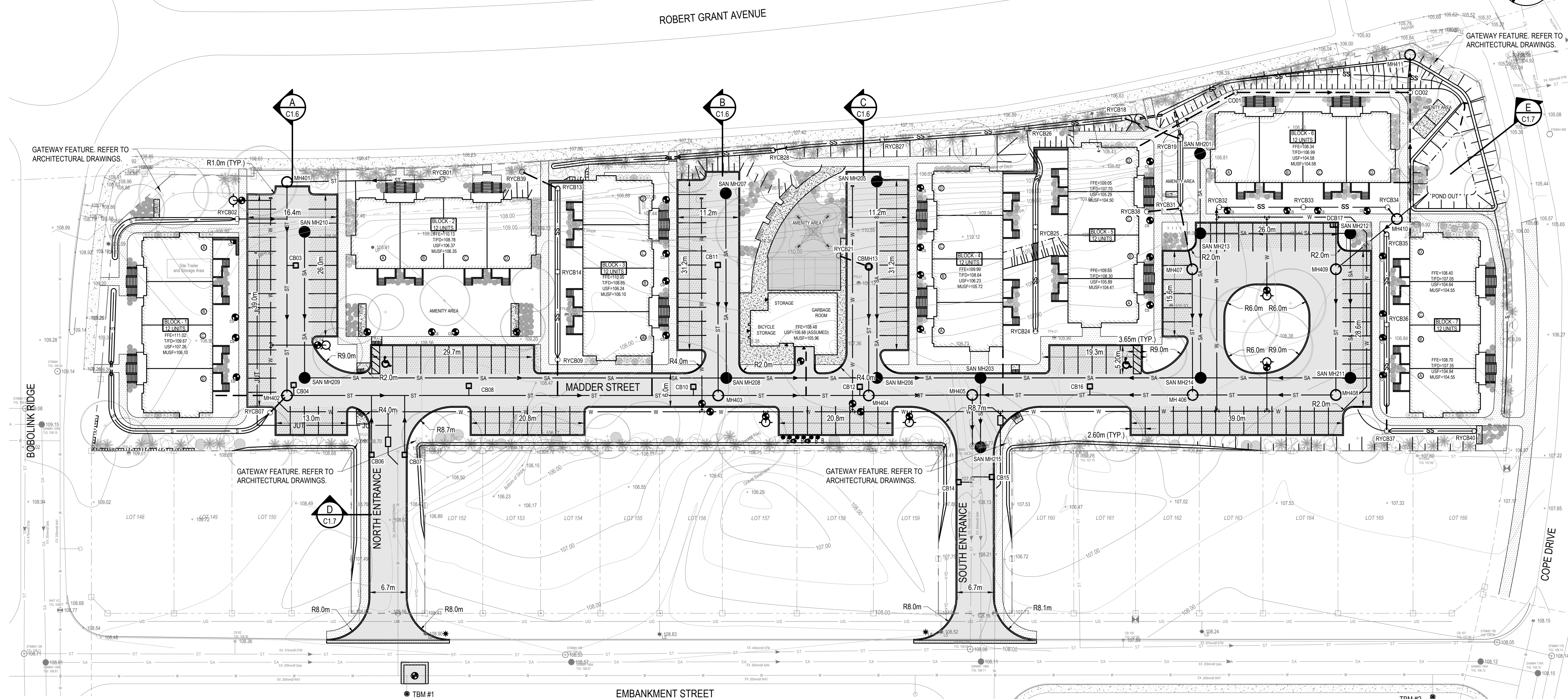
SHEET NUMBER:
C1.1

SHEET #:
 2 OF 10

ISSUE:
RE-ISSUED FOR SPA

DATE OF: MARCH 10, 2022

REV #:
 0



PROPOSED LEGEND:

	ALIGNMENT		CATCH BASIN MANHOLE
	EDGE OF PAVEMENT		CATCH BASIN
	CONCRETE BARRIER CURB		SANITARY MANHOLE
	WATERMAIN		FIRE HYDRANT
	WATER SERVICE		WATERMAIN VALVE
	STORM SEWER		TWSI
	STORM SUBDRAIN		BUILDING ENTRANCE
	SANITARY SEWER		SIGN
	SANITARY SERVICE		GRADE ELEVATION
	JOINT UTILITY TRENCH		IBI DESIGN GRADE
	GRADING TOP OF SLOPE		TOP OF BERM GRADE ELEVATION
	GRADING BOTTOM OF SLOPE		FULL DEPTH ASPHALT
	SWALE		PARTIAL DEPTH ASPHALT
	SWALE c/w SUBDRAIN		CONCRETE SIDEWALK
	100mm LINE PAINTING		ASPHALT SIDEWALK
	1.8m HIGH PVC FENCE		BUILDING
	TERRACING		RIVER STONE
	STORM MANHOLE		
	REAR YARD CATCH BASIN		

M:\2021\211-01221-00 - Richcraft Terrace Flats Site Plan\Drawings\01 - Civil\01 - Proposed\211-01221-00 GA.dwg, No. 09, 2022, 5:11pm (B.Yun) (m)
 CITY PLAN NO. 14498

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



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CONSULTANT:



SEAL:



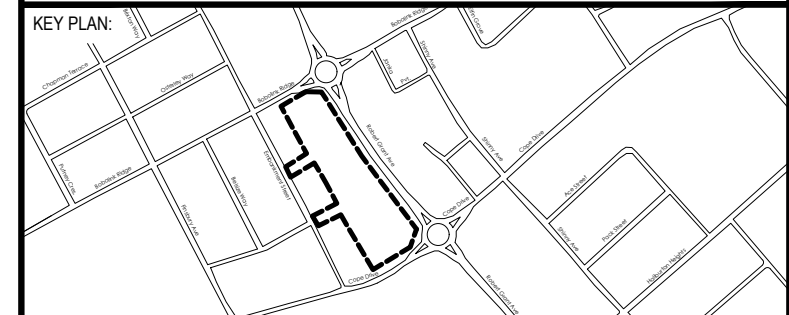
CLIENT:



CLIENT REF. #

PROJECT:

TERRACE FLATS



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IS	RE	DATE	DESCRIPTION
4		2022-03-10	RE-ISSUED FOR SPA
3		2022-01-31	RE-ISSUED FOR SPA
2		2021-10-15	RE-ISSUED FOR SPA
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		
DRAWN BY:	MHJT		
CHECKED BY:	SD		

DISCIPLINE: CIVIL

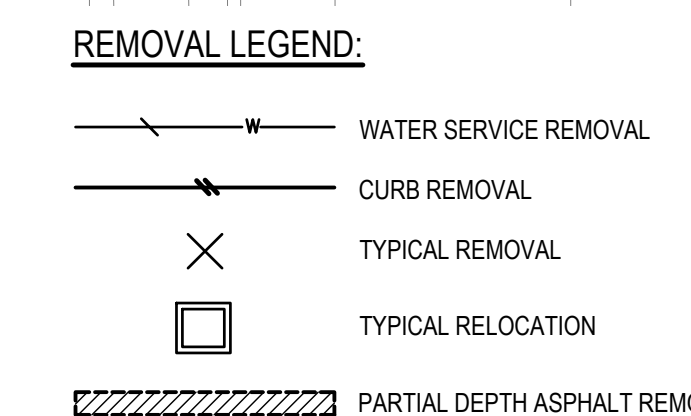
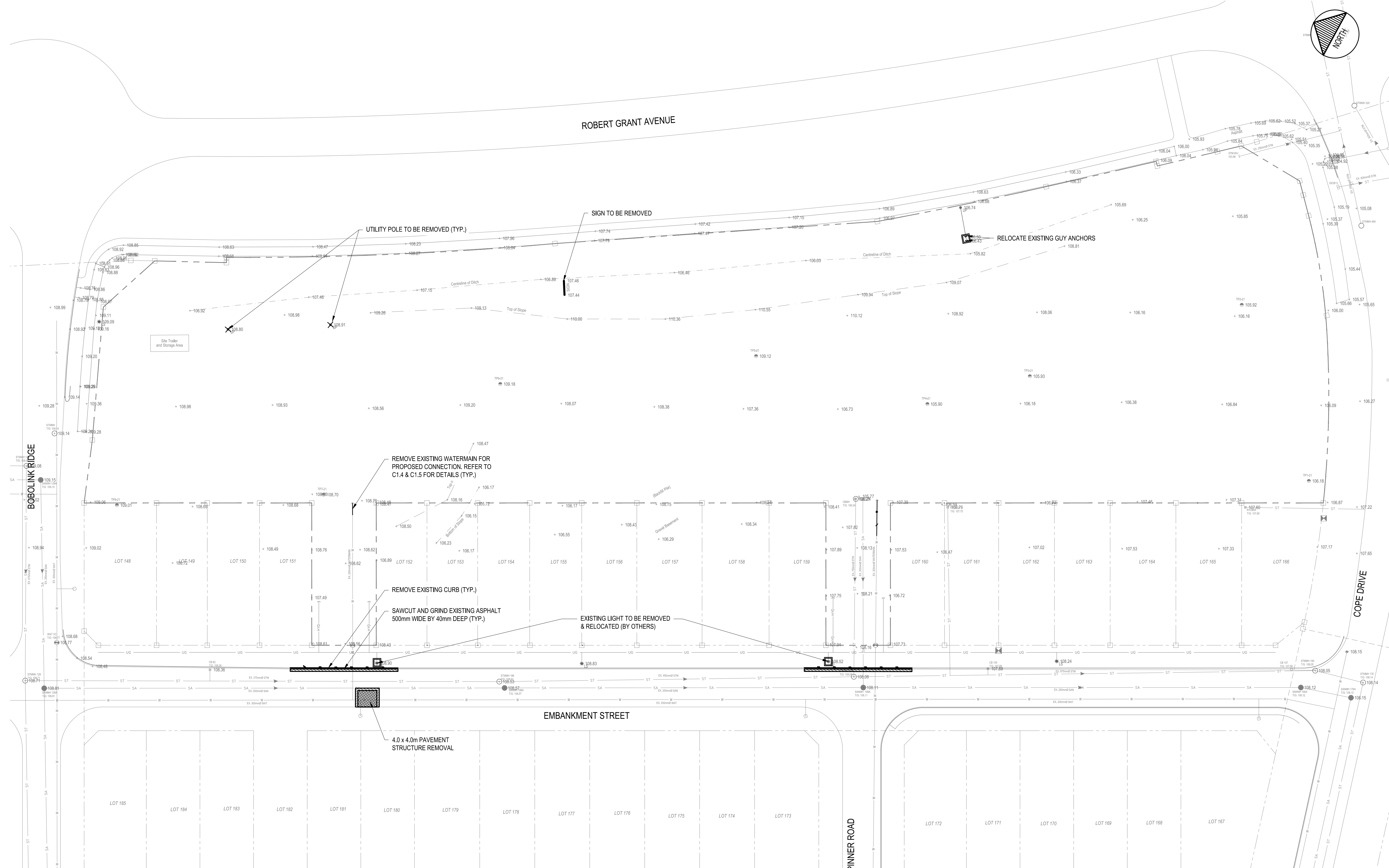
TITLE:
**TERRACE FLATS
REMOVAL PLAN**

SHEET NUMBER:
R1.0

ISSUE:
RE-ISSUED FOR SPA

DATE OF: MARCH 10, 2022

REV #
0

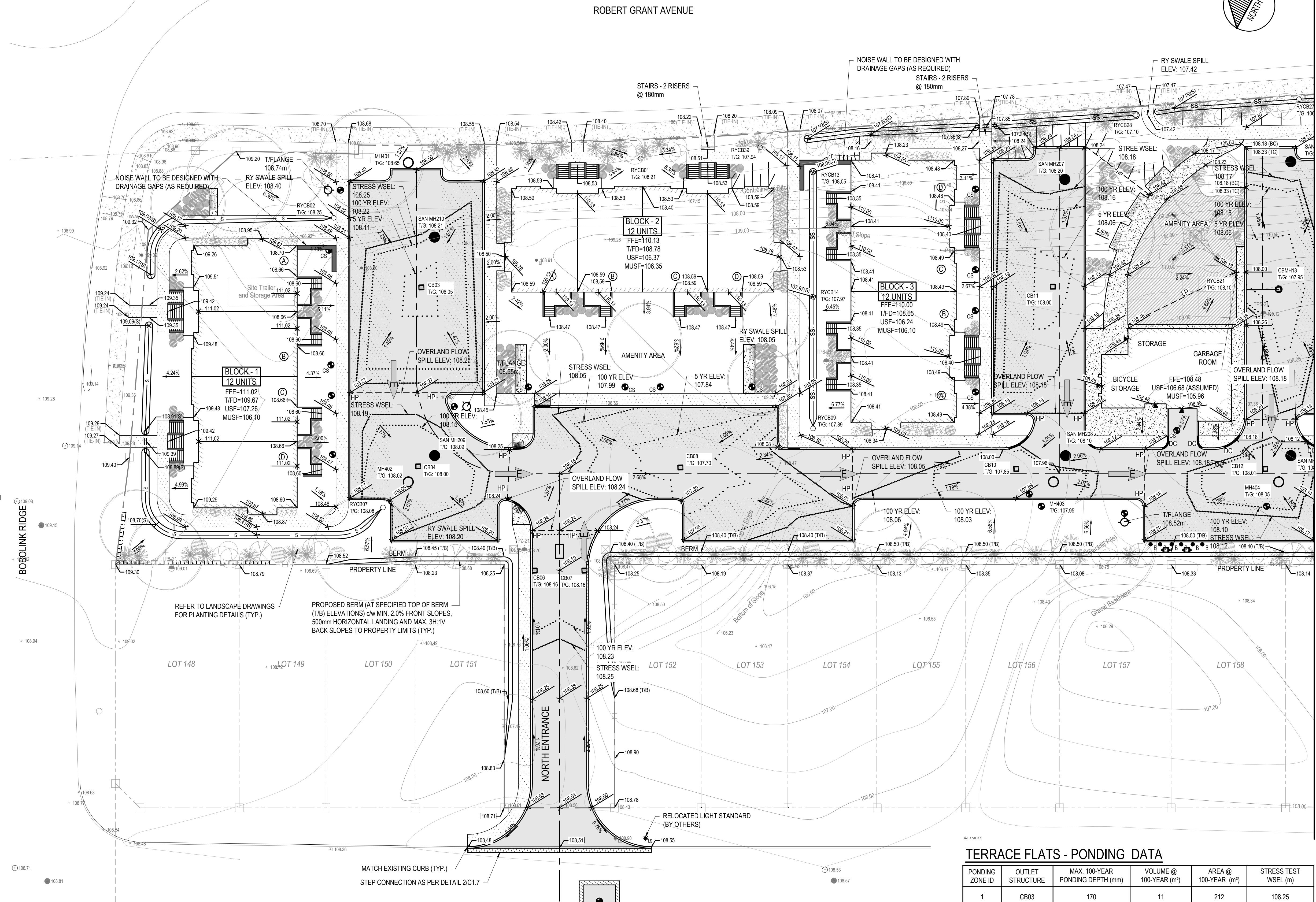


M:\2021\211-01221-00 - Richcraft Terrace Flats Site Plan\Drawings\01_Civil\01_Prelim\211-01221-00_REMOVAL.dwg (Mar 09, 2022 5:14pm by: hmanum) CITY PLAN NO. 14498

- 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
- 1.8m HIGH PVC FENCE
- TERRACING
- 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
- 105.00 (T/B) TOP OF BERM GRADE ELEVATION
- FULL DEPTH ASPHALT
- PARTIAL DEPTH ASPHALT
- CONCRETE SIDEWALK
- ASPHALT SIDEWALK
- BUILDING
- RIVER STONE
- EMERGENCY OVERLAND FLOW ROUTE



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 2022.03.10
 PROVINCE OF ONTARIO

S. P. DAVIDSON
 100133944
 2022.03.10
 PROVINCE OF ONTARIO

CLIENT:
RICHCRAFT
 Group Of Companies

CLIENT REF. #
 PROJECT:
TERRACE FLATS

KEY PLAN

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2	2021-10-15	RE-ISSUED FOR SPA
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.

TERRACE FLATS - PONDING DATA

PONDING ZONE ID	OUTLET STRUCTURE	MAX. 100-YEAR PONDING DEPTH (mm)	VOLUME @ 100-YEAR (m³)	AREA @ 100-YEAR (m²)	STRESS TEST WSEL (m)
1	CB03	170	11	212	108.25
2	CB04	150	7	119	108.19
3	CB06 & CB07	80	3	69	108.25
4	CB08	290	33	127	108.05
5	CB10	180	7	166	108.06
6	CB11	160	10	298	108.18

DISCIPLINE: CIVIL

TITLE: **TERRACE FLATS NORTH GRADING PLAN**

SHEET NUMBER: **C1.2**

SHEET # 4 OF 10

ISSUE: **RE-ISSUED FOR SPA**

DATE OF: MARCH 10, 2022

REV # **0**



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Architect Inc.
2320 Prince of Wales Dr., Suite 101
Ottawa, Ontario, K2E 6Z9
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SEAL:

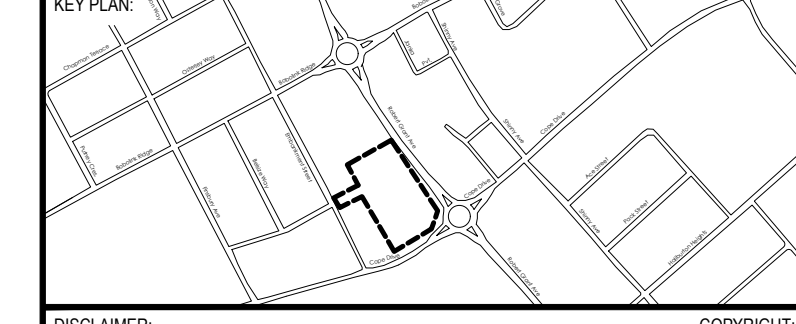
D. D. SEARLE
100503356
2022.03.10
PROVINCE OF ONTARIO

SEAL:

S. P. DAVIDSON
100133944
2022.03.10
PROVINCE OF ONTARIO

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CLIENT REF. #
PROJECT:
TERRACE FLATS



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ISSUED FOR REVISION:

NO.	DATE	DESCRIPTION
4	2022-03-10	RE-ISSUED FOR SPA
3	2022-01-31	RE-ISSUED FOR SPA
2	2021-10-15	RE-ISSUED FOR SPA
1	2021-07-07	ISSUED FOR SPA

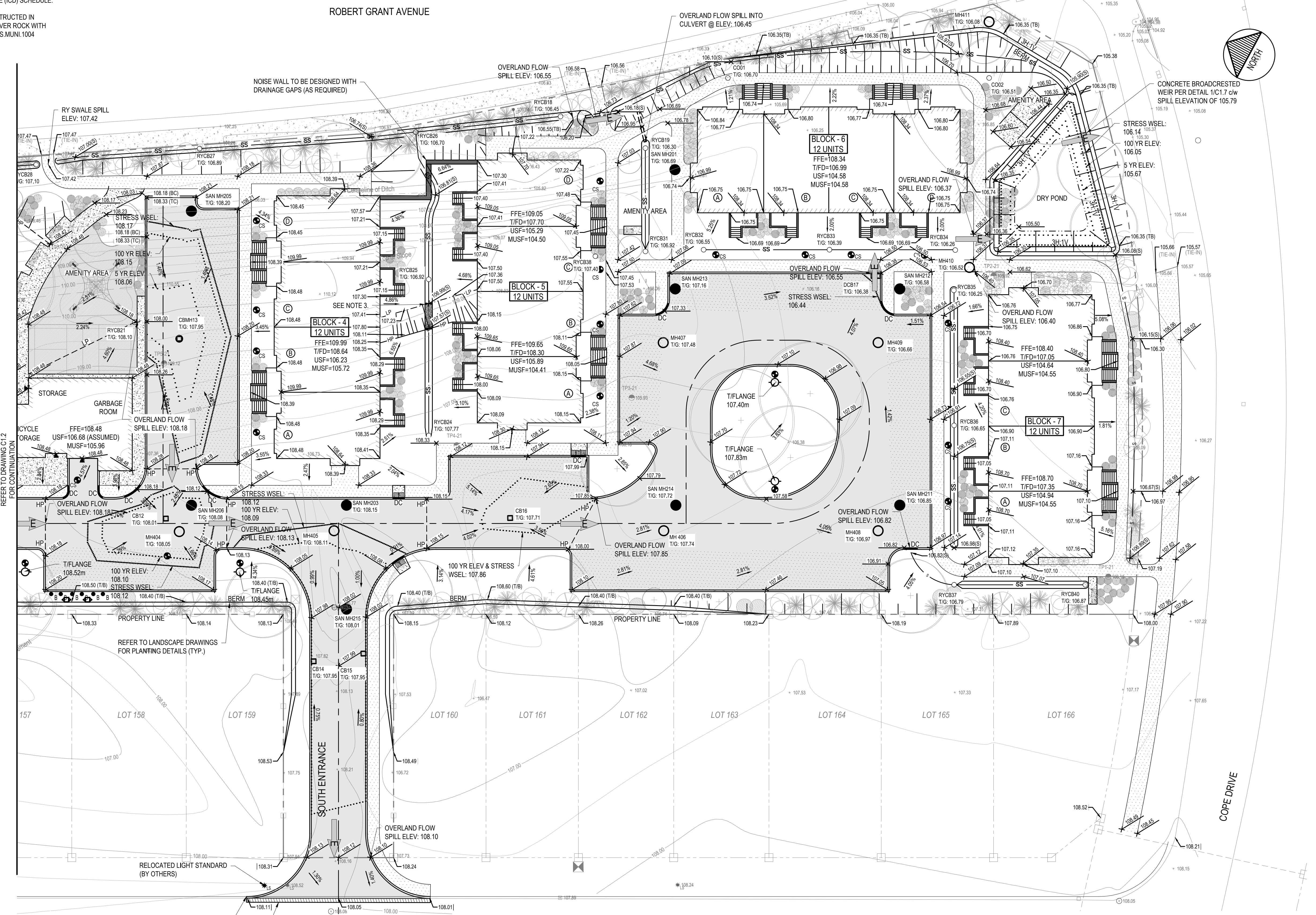
IS	RE	DATE	DESCRIPTION

PROJECT NO: 211-01221-00
ORIGINAL SCALE: 1:250
DESIGNED BY: DS
DRAWN BY: MH
CHECKED BY: SD
DISCIPLINE: CIVIL
DATE: MARCH 2021
TITLE: TERRACE FLATS SOUTH GRADING PLAN
SHEET NUMBER: C1.3
SHEET # 5 OF 10
ISSUE: RE-ISSUED FOR SPA
DATE OF: MARCH 10, 2022

- 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
- 1.8m HIGH PVC FENCE
- TERRACING
- STORM MANHOLE
- REAR YARD CATCH BASIN/CLEAN OUT
- CATCH BASIN MANHOLE
- CATCH ROOM
- SANITARY MANHOLE
- FIRE HYDRANT
- WATERMAIN VALVE
- TWSI
- BUILDING ENTRANCE
- SIGN
- 108.00 x GRADE ELEVATION
- 105.00 (TB) x TOP OF BERM GRADE ELEVATION
- ▨ FULL DEPTH ASPHALT
- ▨ PARTIAL DEPTH ASPHALT
- ▨ CONCRETE SIDEWALK
- ▨ ASPHALT SIDEWALK
- ▨ BUILDING
- ▨ RIVER STONE
- ➔ EMERGENCY OVERLAND FLOW ROUTE

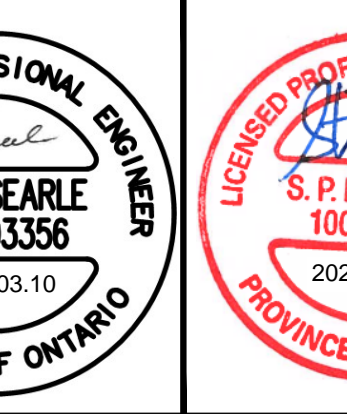
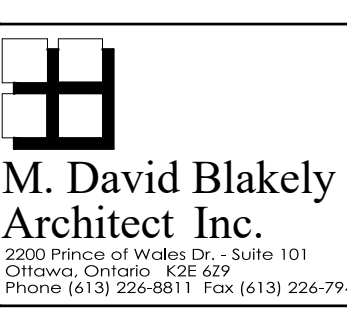


TERRACE FLATS - PONDING DATA

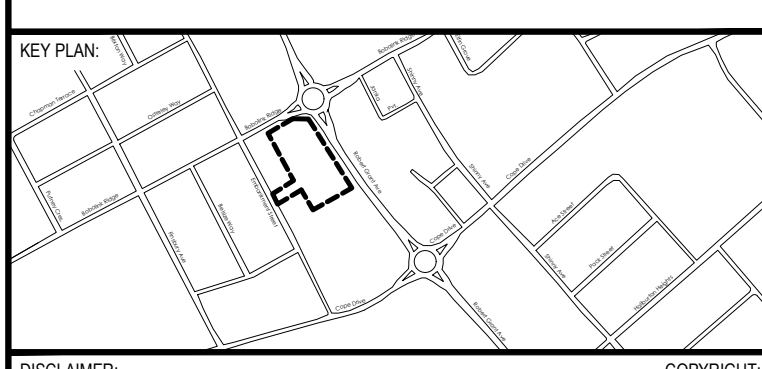
PONDING ZONE ID	OUTLET STRUCTURE	MAX. 100-YEAR PONDING DEPTH (mm)	VOLUME @ 100-YEAR (m³)	AREA @ 100-YEAR (m²)	STRESS TEST WSEL (m)
7	CB12	90	2	76	108.12
8	CB13	200	13	224	108.18
9	CB14 & CB15	140	16	240	108.12
10	CB16	150	3	111	107.86
11	POND OUTLET	540	68	147	106.14



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TERRACE FLATS



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3	2022-01-31	RE-ISSUED FOR SPA	
2	2021-10-15	RE-ISSUED FOR SPA	
1	2021-07-07	ISSUED FOR SPA	

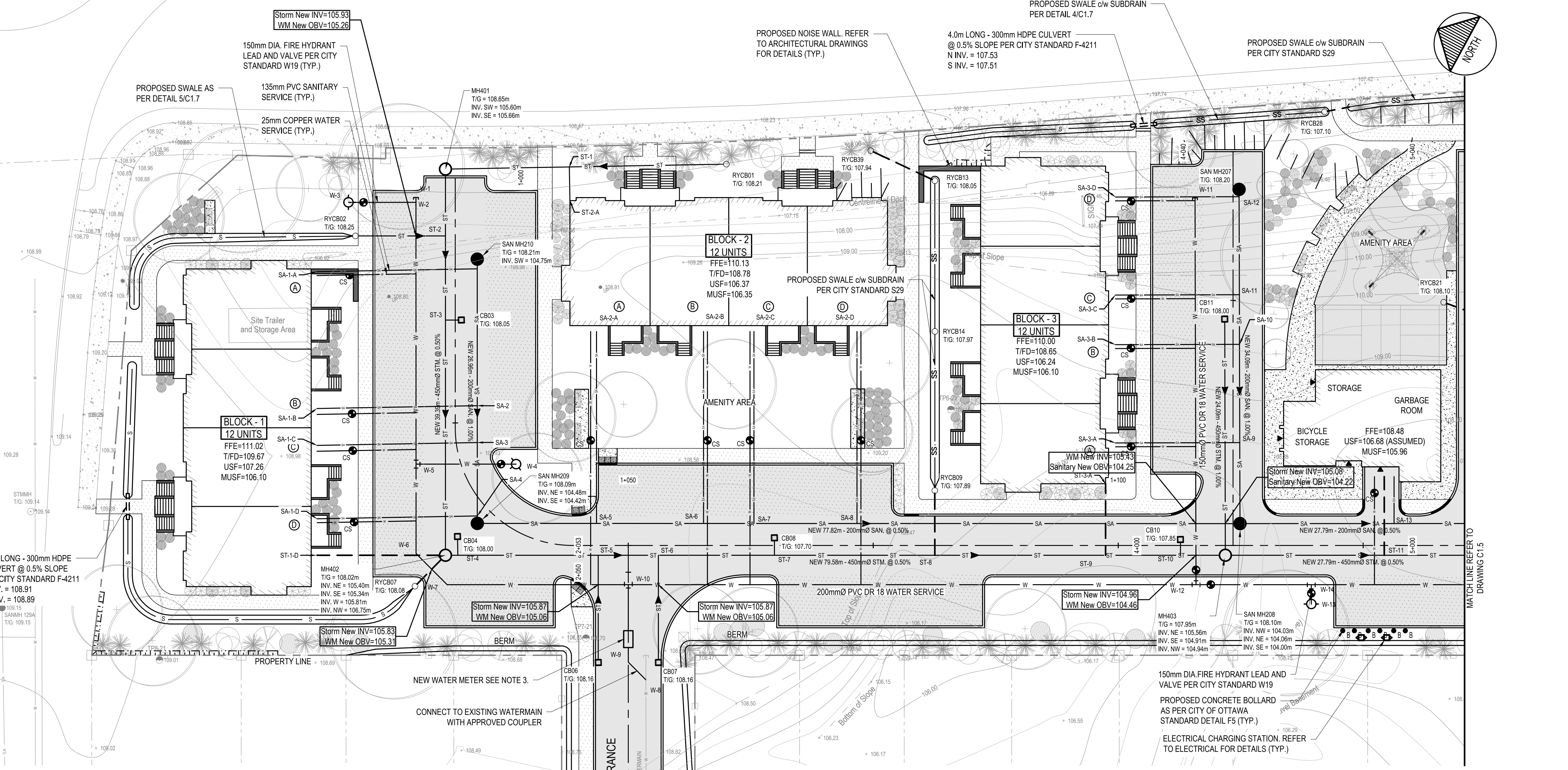
PROJECT NO.	DATE
211-01221-00	MARCH 2021

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

DISCIPLINE: CIVIL
TITLE: TERRACE FLATS NORTH SERVICING PLAN
SHEET NUMBER: C1.4
ISSUE: RE-ISSUED FOR SPA
DATE OF: MARCH 10, 2022

- 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
 - 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
 - 1.8m HIGH PVC FENCE
 - TERRACING
 - 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



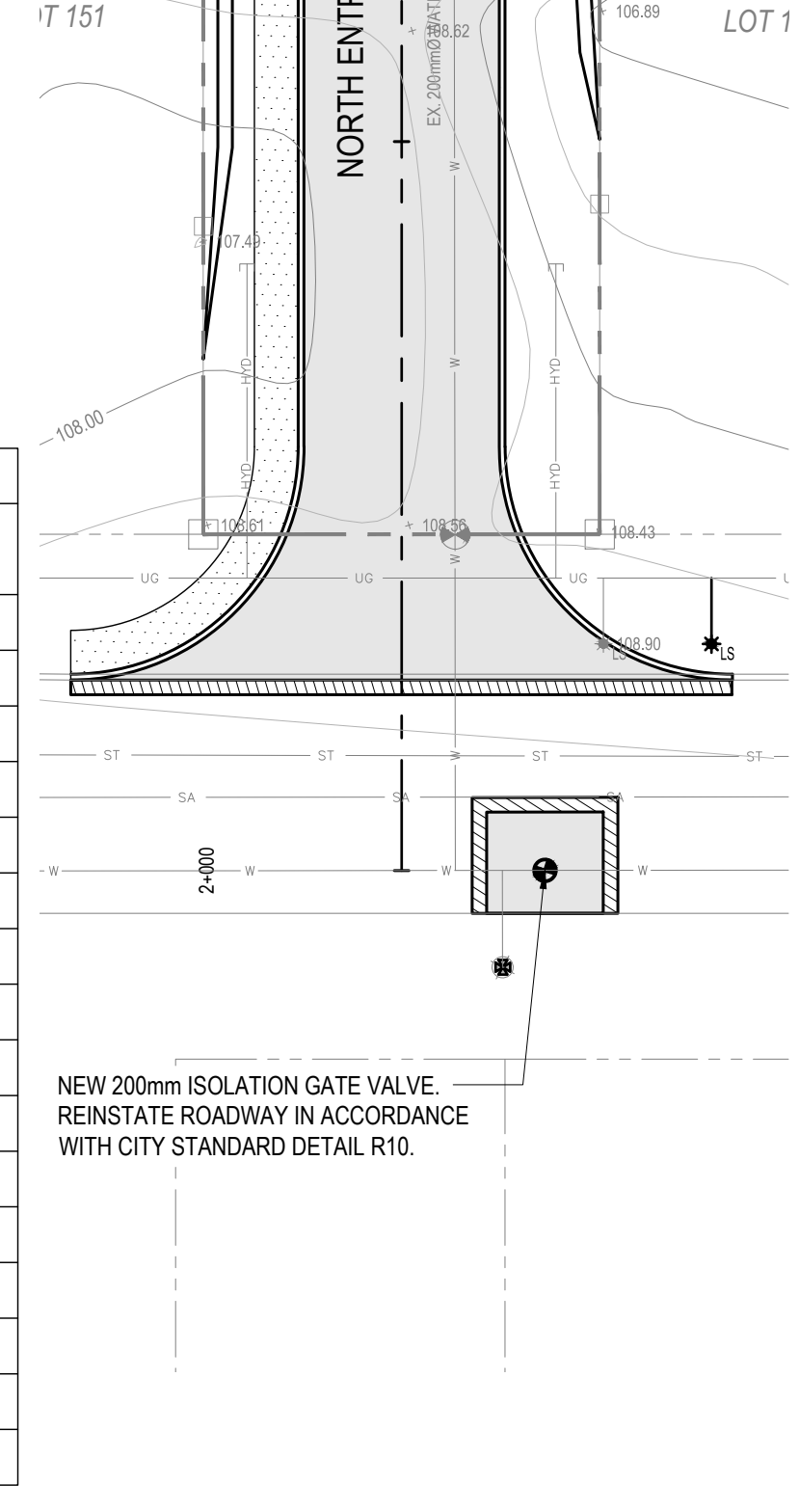
NUMBER	STATION	Ø OFFSET (m)	TOP OF GRATE	LOW INVERT	STRUCTURE (OPSD)	GRATE (OPSD)	SUMP (m)
SAN MH207	4+036.3	+0.62	108.198	104.401	701.010	S24	0.00
SAN MH208	1+112.4	-2.23	108.096	103.999	701.010	S24	0.00
SAN MH209	1+034.9	+1.79	108.086	104.419	701.010	S24	0.00
SAN MH210	1+008.3	-2.24	108.212	104.750	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	3.26
SAN MH210	SAN MH209	104.750	104.480	200 mm	27.0 m	1.00%	S6	3.18
SA-1-B	SA-2	104.700	104.620	135 mm	16.3 m	0.49%	S6	3.40
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	3.51
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	3.50
SA-2-B	SA-6	104.481	104.310	135 mm	19.6 m	0.87%	S6	3.40
SA-2-C	SA-7	104.451	104.280	135 mm	19.6 m	0.87%	S6	3.35
SA-3-B	SA-10	104.447	104.320	135 mm	12.7 m	1.00%	S6	3.54
SAN MH209	SAN MH208	104.419	104.030	200 mm	77.8 m	0.50%	S6	3.27
SAN MH207	SAN MH208	104.401	104.060	200 mm	34.1 m	1.00%	S6	3.54
SA-2-D	SA-8	104.401	104.230	135 mm	19.6 m	0.87%	S6	3.40
SA-3-A	SA-9	104.337	104.210	135 mm	12.7 m	1.00%	S6	3.72
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	108.45	106.05
W-3	FH & VB	1+002.5	+10.90	108.52	106.12
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	108.19	105.77
W-9	45° BEND	2+040.8	0.00	108.19	105.75
W-10	200x200x200mm TEE	1+050.0	+4.00	108.20	105.82
W-11	CAP	4+035.5	-3.88	108.19	105.79
W-12	200x150x200mm TEE	1+107.9	+4.00	108.09	105.69
W-13	FH & VB	1+119.7	+6.00	108.30	105.90
W-14	200x150x200mm TEE	1+119.7	+3.98	108.29	105.89

FROM	TO	INLET ELEV. (m)	OUTLET ELEV. (m)	SIZE	LENGTH	SLOPE	CITY STANDARD	MIN. COVER (m)
ST-1-D	MH402	107.010	106.748	250 mm	13.1 m	2.00%	S6	1.00
RYCB39	RYCB13	107.006	106.970	250 mm	7.2 m	0.50%	S29	0.82
RYCB13	RYCB14	106.970	106.893	250 mm	15.4 m	0.50%	S29	0.82
RYCB14	RYCB09	106.891	106.810	250 mm	16.2 m	0.50%	S29	0.82
ST-2-A	ST-1	106.104	106.070	250 mm	3.4 m	0.99%	S6	2.20
RYCB02	ST-2	106.050	105.810	300 mm	9.2 m	2.61%	S6	1.89
CB07	ST-6	105.950	105.841	300 mm	10.9 m	1.00%	S6	1.90
CB06	ST-5	105.950	105.841	300 mm	10.9 m	1.00%	S6	1.90
RYCB07	MH402	105.850	105.806	250 mm	4.4 m	1.00%	S6	1.95
CB03	ST-3	105.850	105.800	300 mm	1.6 m	3.09%	S6	1.89
RYCB01	MH401	105.803	105.660	450 mm	28.7 m	0.50%	S6	1.95
CB04	ST-4	105.800	105.781	300 mm	1.9 m	1.00%	S6	1.89
CB11	MH403	105.800	105.559	450 mm	24.1 m	1.00%	S6	1.74
RYCB09	ST-8	105.690	105.250	300 mm	6.6 m	6.67%	S6	1.89
CB10	ST-10	105.650	105.634	300 mm	1.6 m	1.00%	S6	1.89
MH401	MH402	105.597	105.400	450 mm	39.4 m	0.50%	S6	2.11
CB08	ST-7	105.500	105.482	300 mm	1.8 m	1.00%	S6	1.89
MH402	MH403	105.340	104.940	450 mm	79.6 m	0.50%	S6	2.11
ST-3-A	ST-9	105.254	105.180	300 mm	7.3 m	1.01%	S6	2.44
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	2.58

NUMBER	STATION	Ø OFFSET (m)	TOP OF GRATE	LOW INVERT	STRUCTURE (OPSD)	GRATE (OPSD)	SUMP (m)
CB03	1+014.5	-0.62	108.050	105.850	705.010	S19.1	0.60
CB04	1+034.6	+4.17	108.000	105.800	705.010	S19.1	0.60
CB06	2+040.8	-3.06	108.155	105.950	705.010	S19.1	0.60
CB07	2+040.8	+3.08	108.156	105.950	705.010	S19.1	0.60
CB08	1+064.9	-0.78	107.700	105.500	705.010	S19.1	0.60
CB10	1+106.3	-0.61	107.850	105.650	705.010	S19.1	0.60
CB11	4+023.1	-0.85	108.000	105.800	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	107.954	104.910	701.010	S24.1	0.30
RYCB01	1+060.0	-38.90	108.210	105.803	705.010	S19.1	0.60
RYCB02	1+005.9	+10.19	108.250	106.050	705.010	S19.1	0.60
RYCB07	1+034.9	+10.82	108.085	105.850	705.010	S19.1	0.60
RYCB09	1+081.3	-5.60	107.890	105.690	705.010	S19.1	0.60
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
RYCB28	1+121.1	-44.25	107.100	106.117	S30	S30	0.00
RYCB39	1+074.7	-40.28	107.940	107.006	S31	S31	0.00



- 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. THE INTERIOR BUILDING PLUMBING SHALL INCLUDE PRESSURE REDUCING VALVES ON ALL WATER SERVICES FOR BLOCKS 5, 6 AND 7.

ROBERT GRANT AVENUE

4.0m LONG - 300mm HDPE CULVERT
@ 0.5% SLOPE PER CITY STANDARD F-4211
E INV. = 106.15
W INV. = 106.45

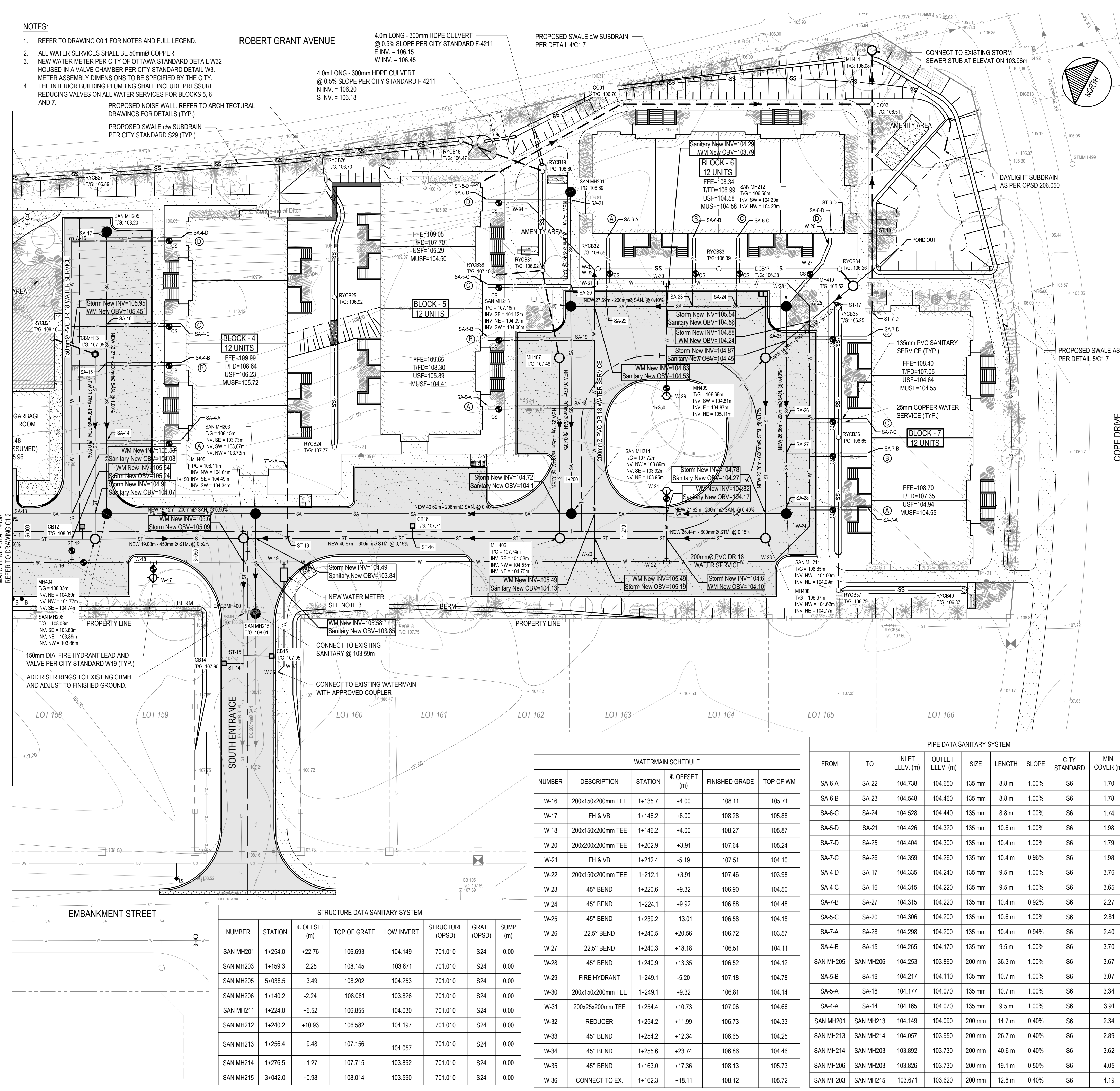
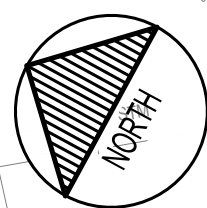
4.0m LONG - 300mm HDPE CULVERT
@ 0.5% SLOPE PER CITY STANDARD F-4211
N INV. = 106.20
S INV. = 106.18

PROPOSED NOISE WALL REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS (TYP.)

PROPOSED SWALE c/w SUBDRAIN PER CITY STANDARD S29 (TYP.)

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

CONNECT TO EXISTING STORM SEWER STUB AT ELEVATION 103.96m



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	105.810	705.010	S19.1	0.60
CB14	3+035.6	-3.06	107.950	105.750	705.010	S19.1	0.60
CB15	3+036.6	+3.08	107.950	105.750	705.010	S19.1	0.60
CB16	1+179.5	-0.67	107.710	105.510	705.010	S19.1	0.60
CBMH13	5+022.8	+1.99	107.950	105.010	701.010	S19.1	0.60
CO01	1+251.8	+32.51	106.700	104.472	701.010	S24.1	0.30
CO02	1+241.7	+38.67	106.510	104.090	701.010	S24.1	0.30
DCB17	1+241.6	+10.69	106.380	105.170	705.020	S19.1	0.60
MH406	1+198.5	+0.90	107.735	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	107.476	104.760	701.010	S24.1	0.30
MH408	1+221.3	+6.37	106.966	104.620	701.011	S24.1	0.30
MH409	1+238.7	+4.31	106.657	104.810	701.011	S24.1	0.30
MH410	1+238.6	+18.91	106.518	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	705.010	S19.1	0.60
RYCB19	1+254.7	+26.56	106.300	105.215	S31	S31	0.00
RYCB21	5+024.8	-3.51	108.100	105.980	705.010	S19.1	0.60
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+256.5	+15.38	106.920	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	106.257	104.978	705.010	S19.1	0.60
RYCB35	1+238.2	+15.63	106.250	105.110	705.010	S19.1	0.60
RYCB36	1+230.8	+10.45	106.650	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%	S6	1.77
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
CB12	ST-12	105.810	105.794	300 mm	1.6 m	1.00%	S6	1.89
CB15	ST-15	105.750	105.713	300 mm	3.7 m	1.00%	S6	1.90
CB14	ST-14	105.750	105.725	300 mm	2.5 m	1.00%	S6	1.90
RYCB26	RYCB18	105.630	105.450	250 mm	18.0 m	1.00%	S29	0.76
CB16	ST-16	105.510	105.494	300 mm	1.6 m	1.00%	S6	1.89
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	0.76
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	0.85
RYCB19	RYCB31	105.215	105.020	250 mm	12.7 m	1.53%	S29	0.83
DCB17	MH409	105.170	105.110	300 mm	8.2 m	0.73%	S6	0.92
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%	S6	0.88
CBMH13	MH404	105.010	104.890	450 mm	23.8 m	0.50%	S6	2.48
RYCB34	MH410	104.978	104.950	250 mm	2.8 m	1.00%	S6	1.02
RYCB31	MH407	104.960	104.910	250 mm	11.5 m	0.44%	S29	1.70
MH410	MH409	104.889	104.870	600 mm	14.6 m	0.13%	S6	0.79
MH409	MH408	104.810	104.770	600 mm	23.2 m	0.17%	S6	1.14
ST-4-A	ST-13	104.790	104.700	300 mm	8.9 m	1.01%	S6	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	1.05
ST-5-D	CO01	104.708	104.500	250 mm	20.8 m	1.00%	S6	1.90
MH408	MH406	104.620	104.580	600 mm	26.4 m	0.15%	S6	1.64
MH406	MH405	104.550	104.490	600 mm	40.7 m	0.15%	S6	2.48
CO01	CO02	104.472	104.150	250 mm	32.2 m	1.00%	S6	1.98
ST-7-D	CO02	104.340	104.120	250 mm	26.7 m	0.82%	S6	1.78
MH405	EX CBMH400	104.340	104.330	750 mm	9.4 m	0.11%	S6	2.81
ST-6-D	ST-18	104.300	104.260	250 mm	3.6 m	1.12%	S6	1.83
CO02	MH411	104.090	104.020	250 mm	6.9 m	1.01%	S6	1.63
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	1.98
SA-7-D	SA-25	104.404	104.300	135 mm	10.4 m	1.00%	S6	1.79
SA-7-C	SA-26	104.359	104.260	135 mm	10.4 m	0.96%	S6	1.98
SA-4-D	SA-17	104.335	104.240	135 mm	9.5 m	1.00%	S6	3.76
SA-4-C	SA-16	104.315	104.220	135 mm	9.5 m	1.00%	S6	3.65
SA-7-B	SA-27	104.315	104.220	135 mm	10.4 m	0.92%	S6	2.27
SA-5-C	SA-20	104.306	104.200	135 mm	10.6 m	1.00%	S6	2.81
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	3.70
SAN MH205	SAN MH206	104.253	103.890	200 mm	36.3 m	1.00%	S6	3.67
SA-5-B	SA-19	104.217	104.110	135 mm	10.7 m	1.00%	S6	3.07
SA-5-A	SA-18	104.177	104.070	135 mm	10.7 m	1.00%	S6	3.34
SA-4-A	SA-14	104.165	104.070	135 mm	9.5 m	1.00%	S6	3.91
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	2.89
SAN MH214	SAN MH203	103.892	103.730	200 mm	40.6 m	0.40%	S6	3.62
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	4.19

WATERMAIN SCHEDULE

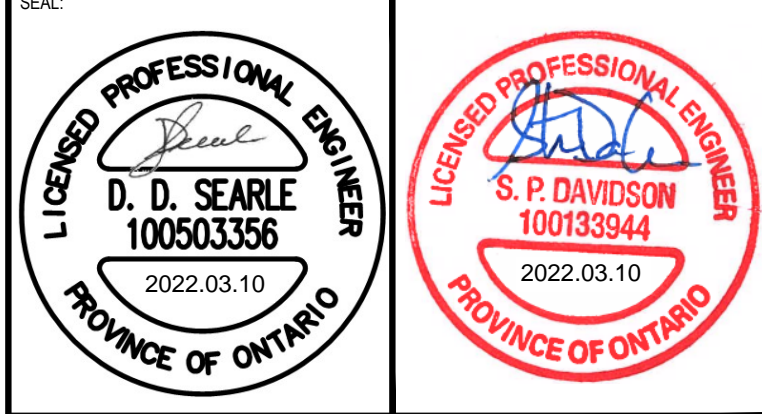
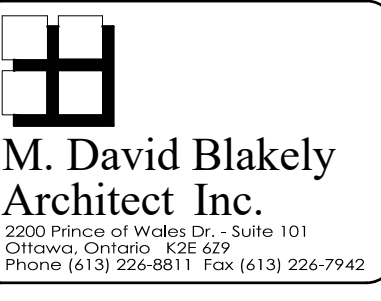
NUMBER	DESCRIPTION	STATION	± OFFSET (m)	FINISHED GRADE	TOP OF WM
W-16	200x150x200mm TEE	1+135.7	+4.00	108.11	105.71
W-17	FH & VB	1+146.2	+6.00	108.28	105.88
W-18	200x150x200mm TEE	1+146.2	+4.00	108.27	105.87
W-20	200x200x200mm TEE	1+202.9	+3.91	107.64	105.24
W-21	FH & VB	1+212.4	-5.19	107.51	104.10
W-22	200x150x200mm TEE	1+212.1	+3.91	107.46	103.98
W-23	45° BEND	1+220.6	+9.32	106.90	104.50
W-24	45° BEND	1+224.1	+9.92	106.88	104.48
W-25	45° BEND	1+239.2	+13.01	106.58	104.18
W-26	22.5° BEND	1+240.5	+20.56	106.72	103.57
W-27	22.5° BEND	1+240.3	+18.18	106.51	104.11
W-28	45° BEND	1+240.9	+13.35	106.52	104.12
W-29	FIRE HYDRANT	1+249.1	-5.20	107.18	104.78
W-30	200x150x200mm TEE	1+249.1	+9.32	106.81	104.14
W-31	200x25x200mm TEE	1+254.4	+10.73	107.06	104.66
W-32	REDUCER	1+254.2	+11.99	106.73	104.33
W-33	45° BEND	1+254.2	+12.34	106.65	104.25
W-34	45° BEND	1+255.6	+23.74	106.86	104.46
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

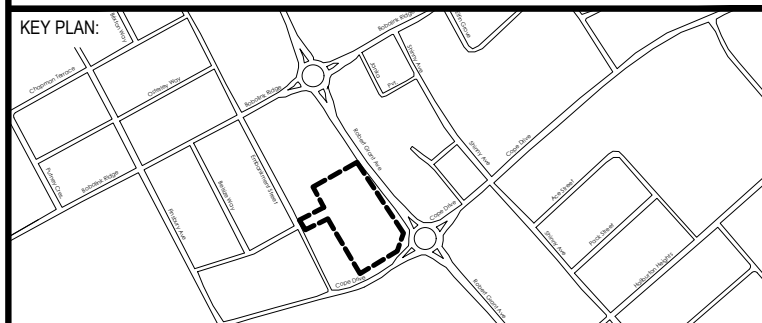
NUMBER	STATION	± OFFSET (m)	TOP OF GRATE	LOW INVERT	STRUCTURE (OPSD)	GRATE (OPSD)	SUMP (m)
SAN MH201	1+254.0	+22.76	106.693	104.149	701.010	S24	0.00
SAN MH203	1+159.3	-2.25	108.145	103.671	701.010	S24	0.00
SAN MH205	5+038.5	+3.49	108.202	104.253	701.010	S24	0.00
SAN MH206	1+140.2	-2.24	108.081	103.826	701.010	S24	0.00
SAN MH211	1+224.0	+6.52	106.855	104.030	701.010	S24	0.00
SAN MH212	1+240.2	+10.93	106.582	104.197	701.010	S24	0.00
SAN MH213	1+256.4	+9.48	107.156	104.057	701.010	S24	0.00
SAN MH214	1+276.5	+1.27	107.715	103.892	701.010	S24	0.00
SAN MH215	3+042.0	+0.98	108.014	103.590	701.010	S24	0.00



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



TERRACE FLATS



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PRELIMINARY
NOT FOR CONSTRUCTION

ISSUED FOR - REVISION

NO.	DATE	DESCRIPTION
4	2022-03-10	RE-ISSUED FOR SPA
3	2022-01-31	RE-ISSUED FOR SPA
2	2021-10-15	RE-ISSUED FOR SPA
1	2021-07-07	ISSUED FOR SPA

PROJECT NO: 211-01221-00
DATE: MARCH 2021
DESIGNED BY: DS
DRAWN BY: MH
CHECKED BY: SH
DISCIPLINE: CIVIL

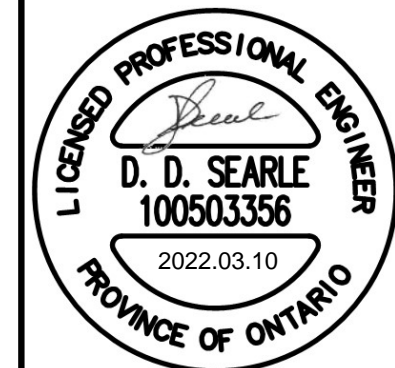


1224 GARDINERS ROAD, SUITE 201
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CANADA K7P 0G2
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CONSULTANT:



SEAL:



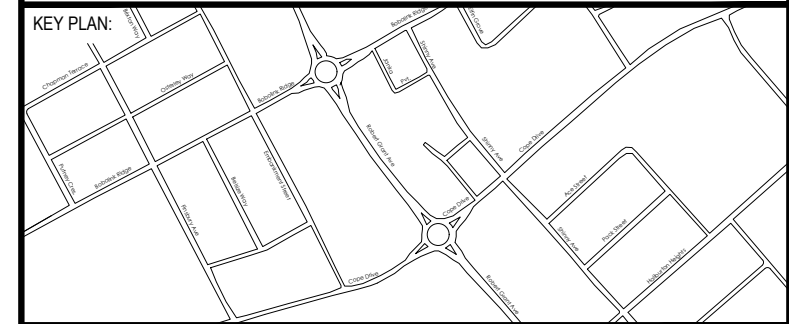
CLIENT:



CLIENT REF. #

PROJECT:

TERRACE FLATS



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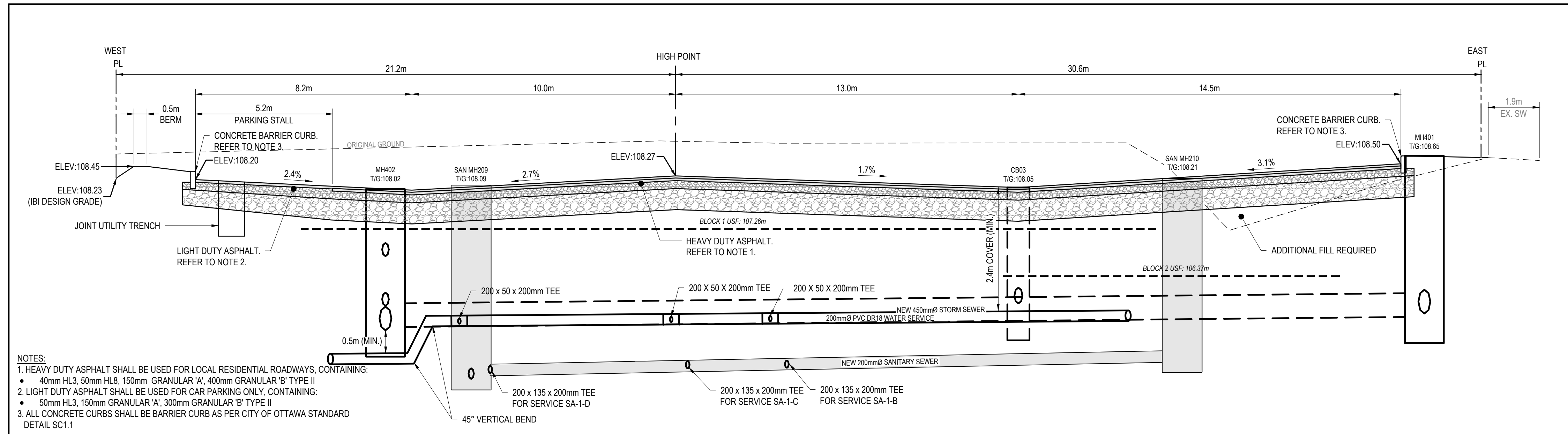
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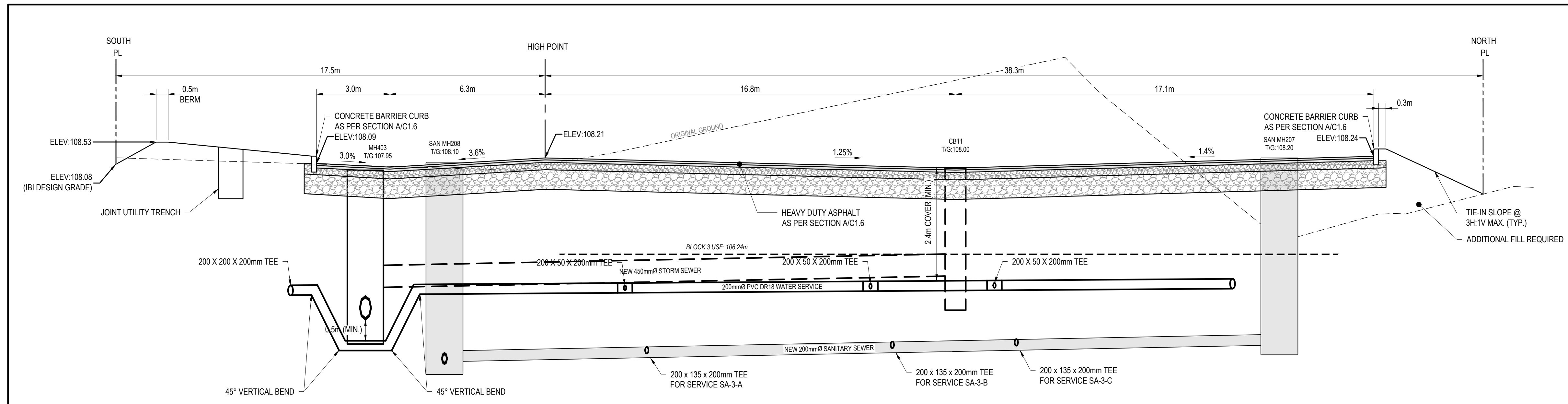
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3	2022-01-31	RE-ISSUED FOR SPA
2	2021-10-15	RE-ISSUED FOR SPA
1	2021-07-07	ISSUED FOR SPA

IS	RE	DATE	DESCRIPTION
211-01221-00			MARCH 2021

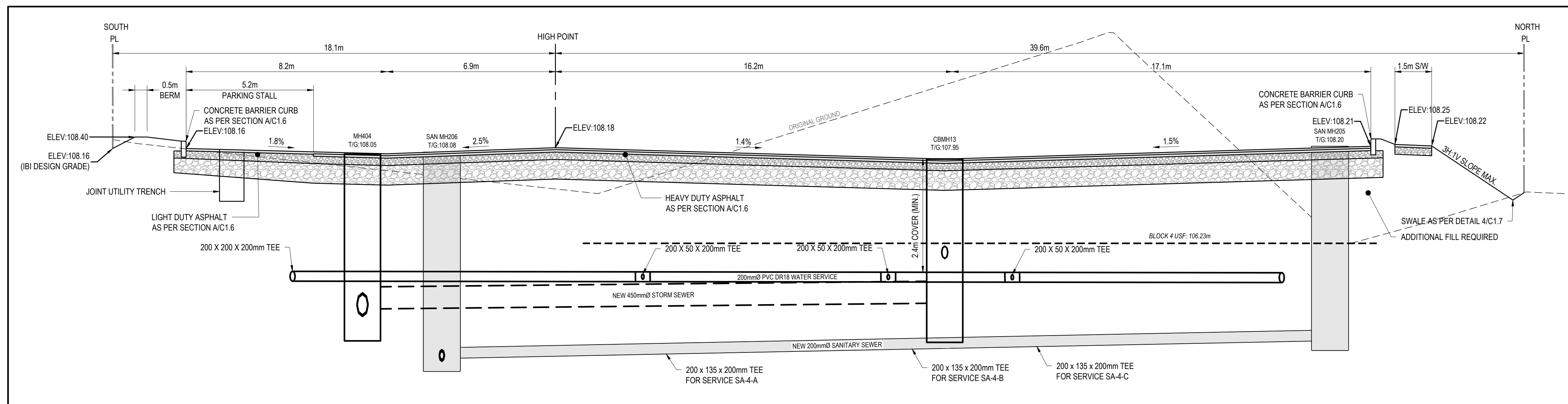
PROJECT NO:	211-01221-00	DATE:	MARCH 2021
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DESIGNED BY:	DS		
DRAWN BY:	MH		
CHECKED BY:	SD		
DISCIPLINE:	CIVIL		
TITLE:	TERRACE FLATS DETAILS & SECTIONS I		
SHEET NUMBER:	C1.6		
ISSUE:	RE-ISSUED FOR SPA	REV #	0
DATE OF:	MARCH 10, 2022		



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

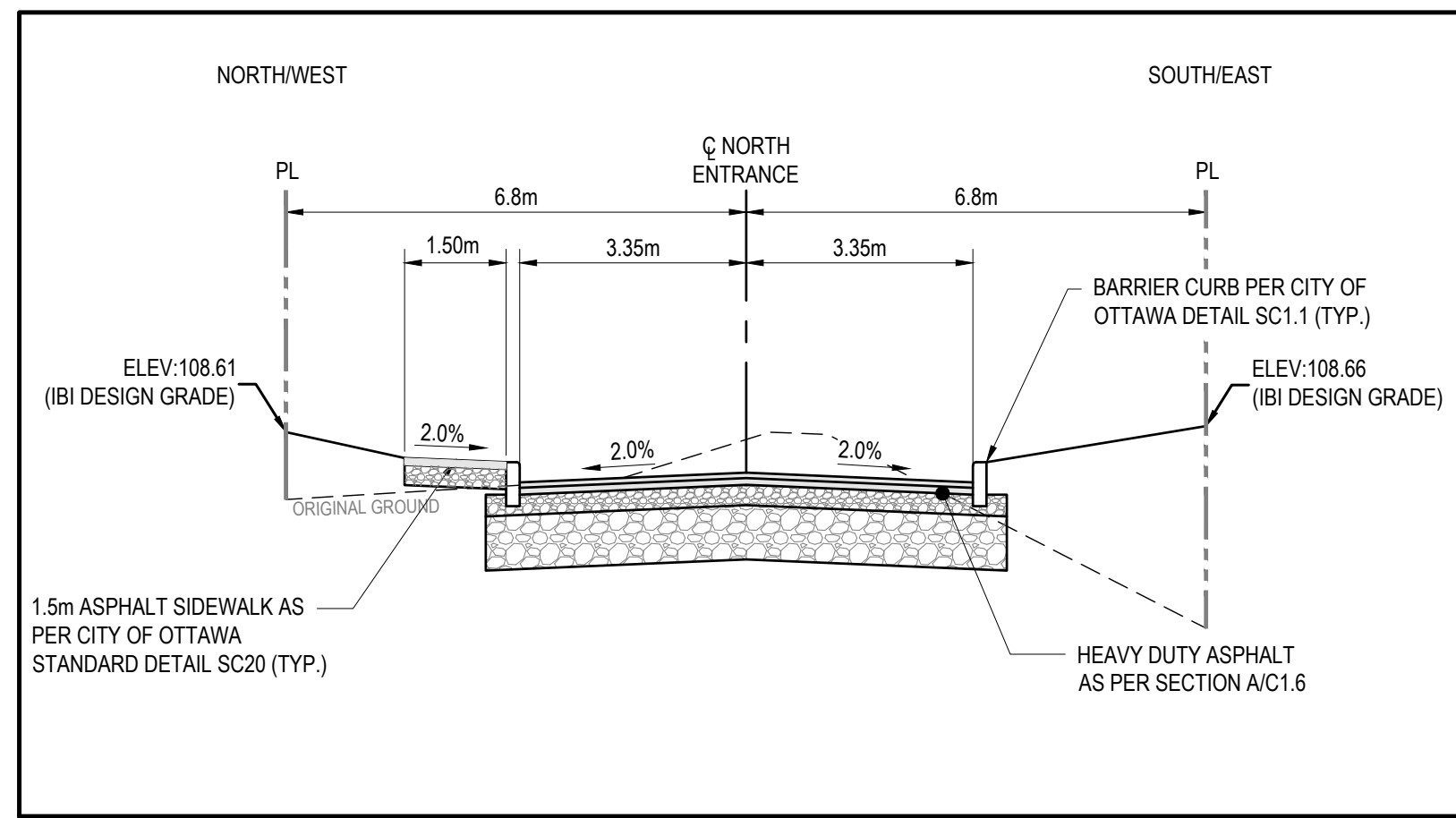


B SECTION B
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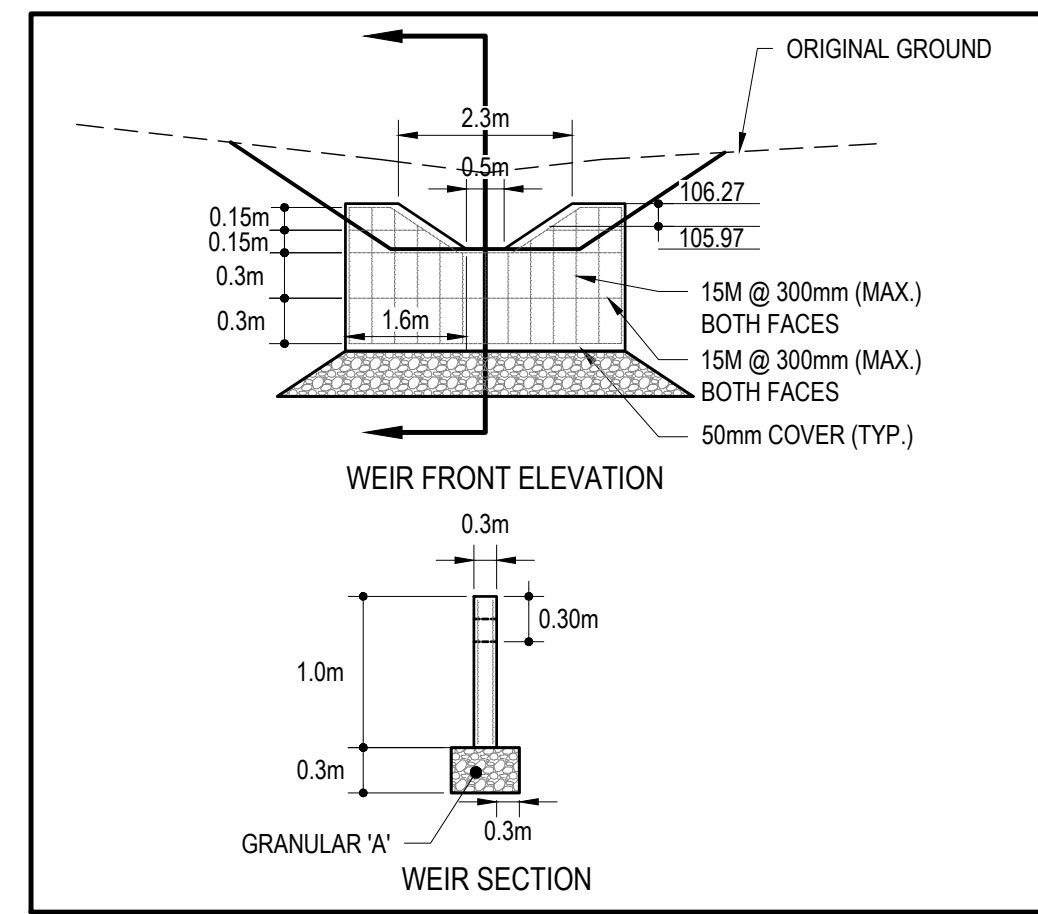


C SECTION C
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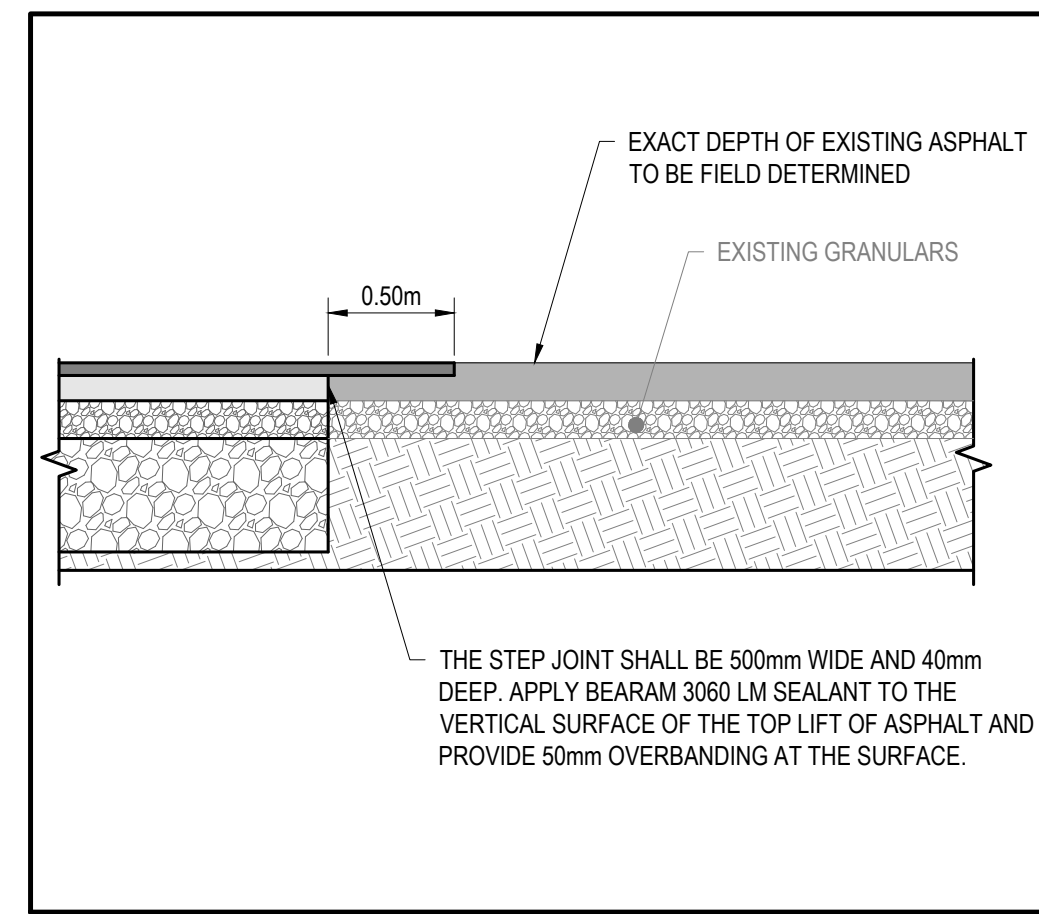
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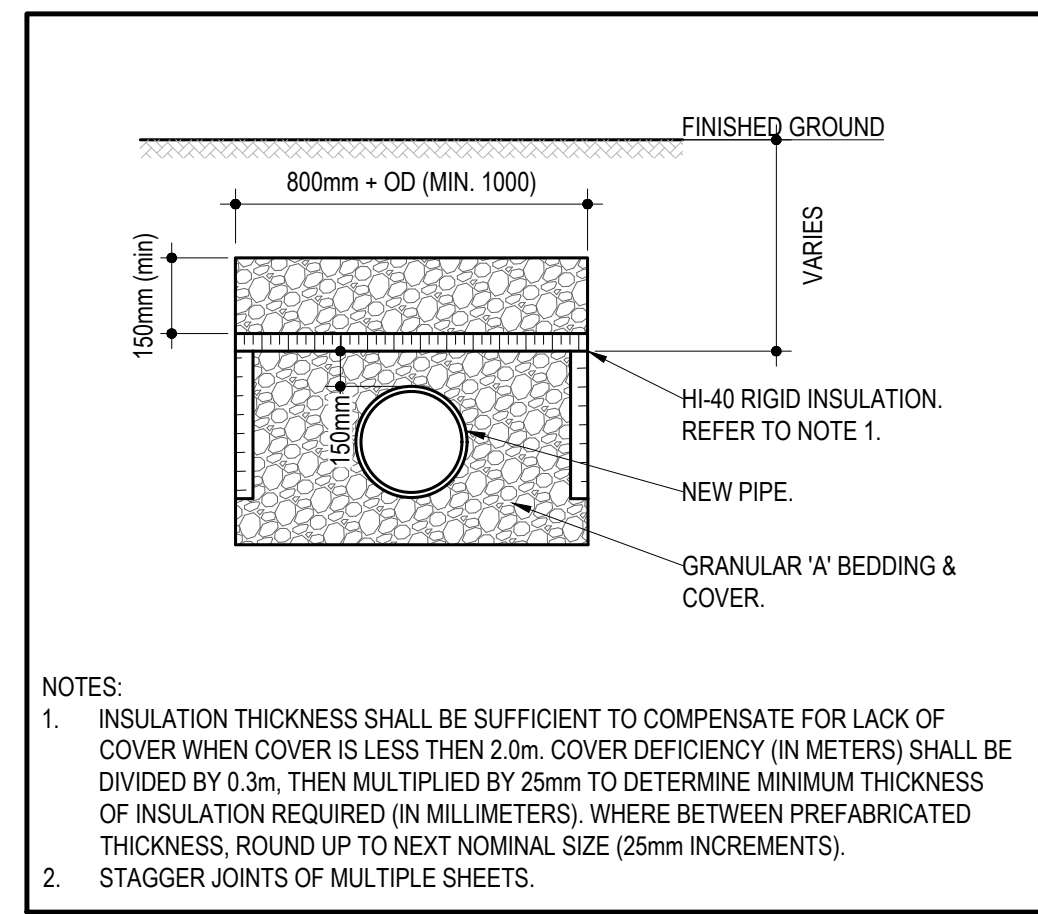
D SECTION D
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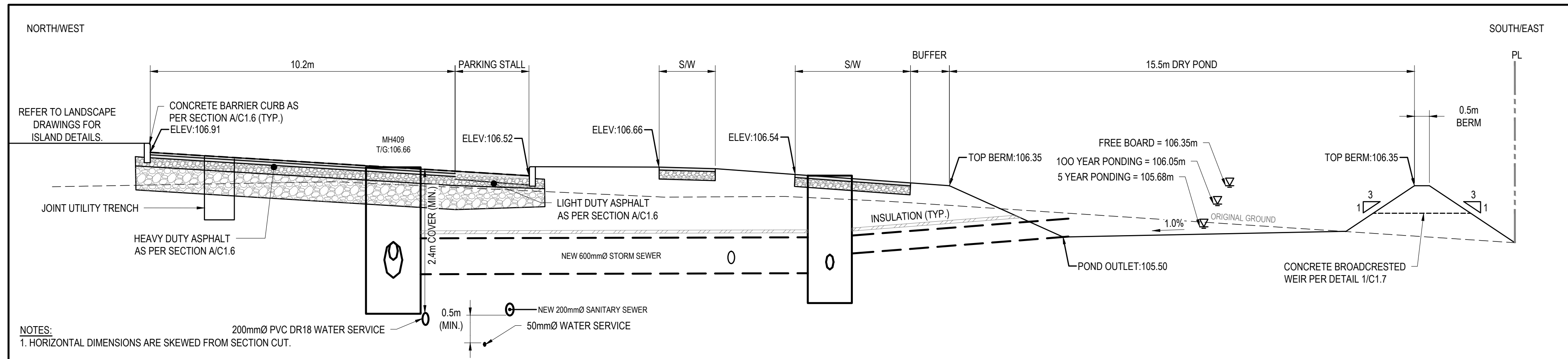
1 CONCRETE WEIR DETAIL
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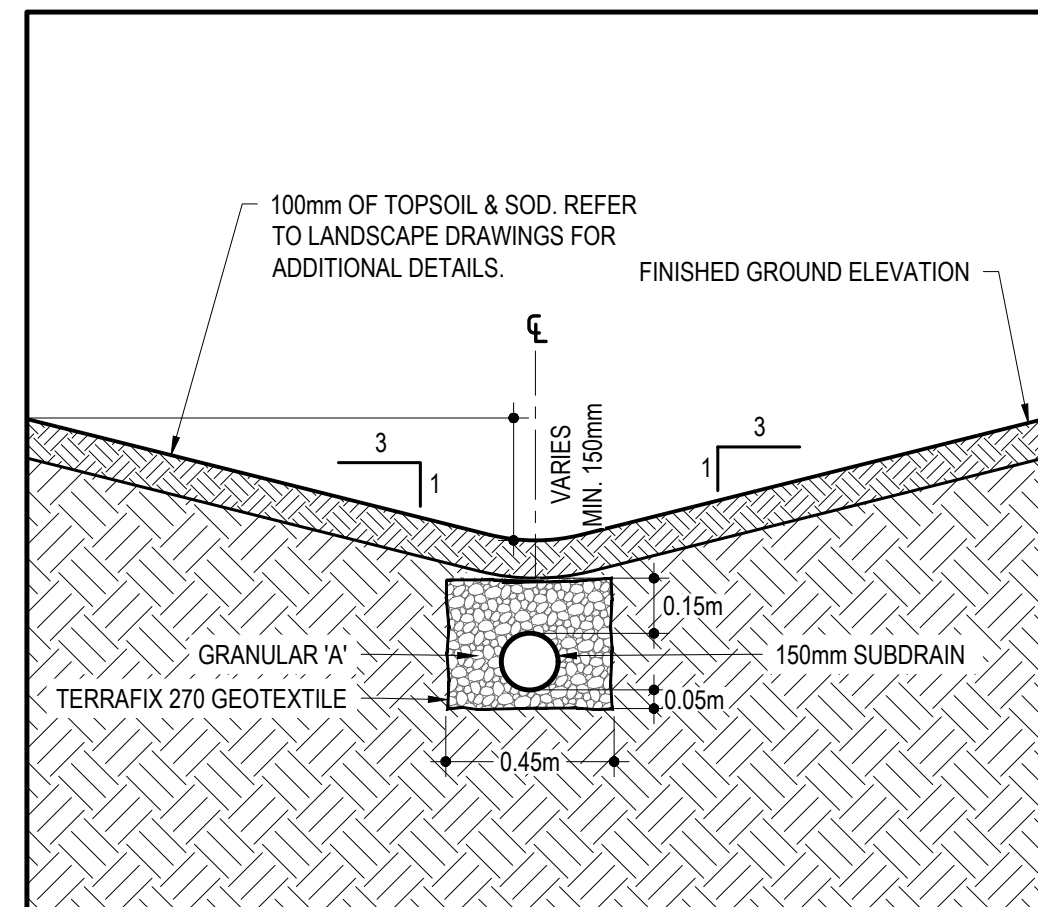
2 TYPICAL STEP CONNECTION
SCALE: 1:30



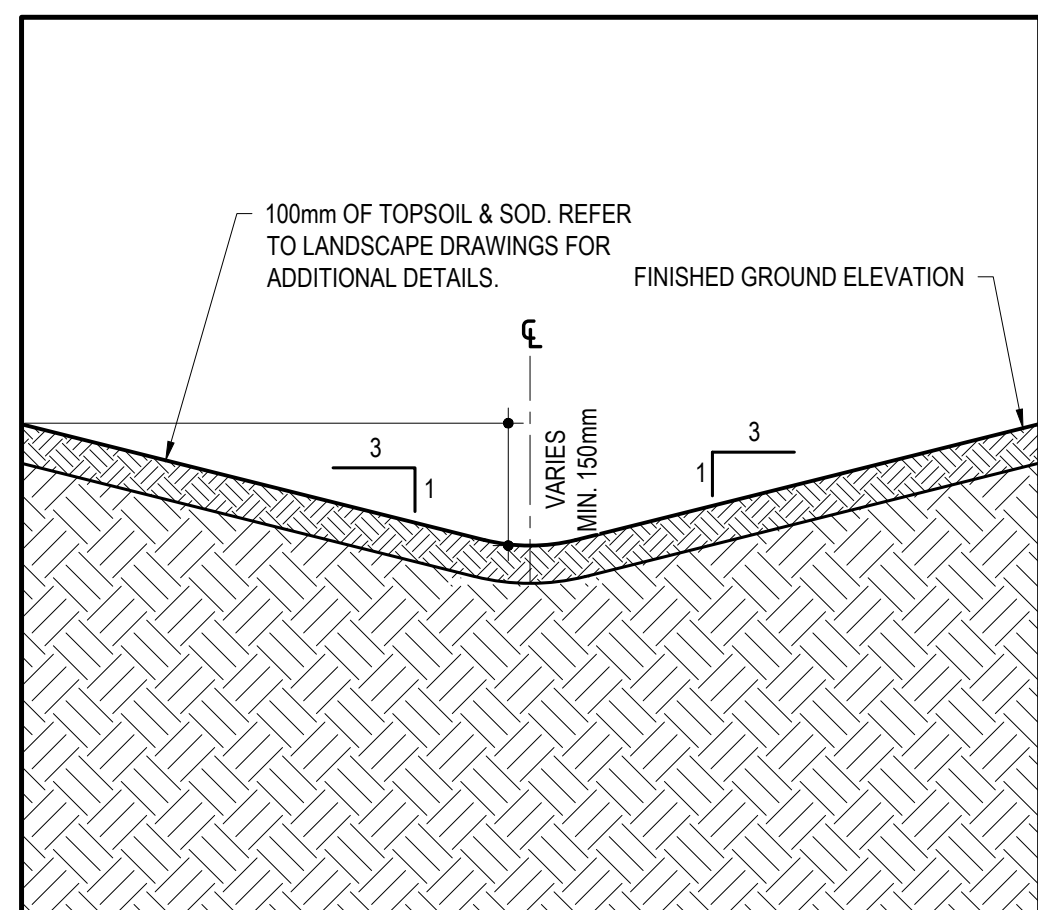
3 FROST PROTECTION DETAIL (SEWERS)
SCALE: 1:20



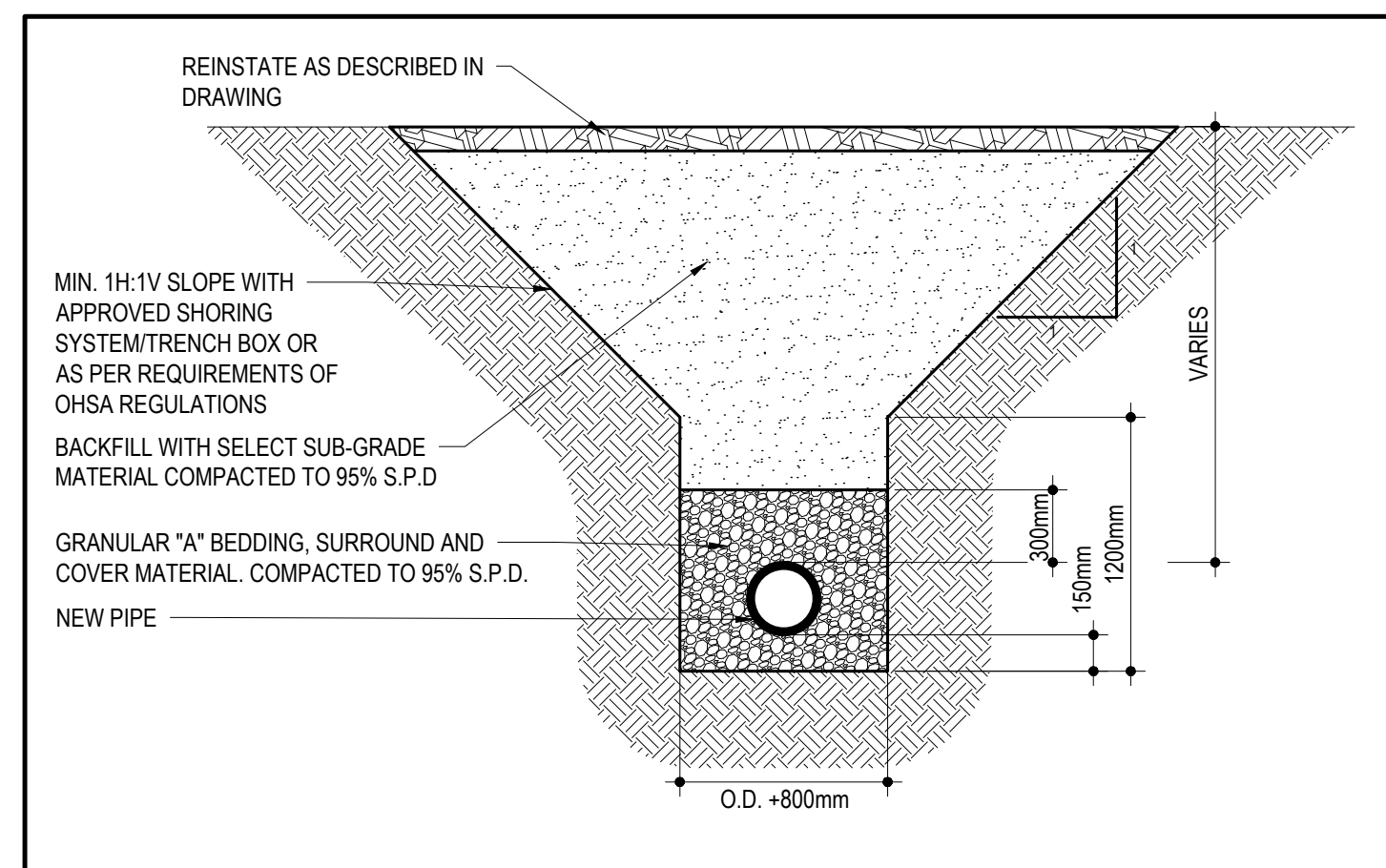
E SECTION E
SCALE: H 1:100 V 1:50



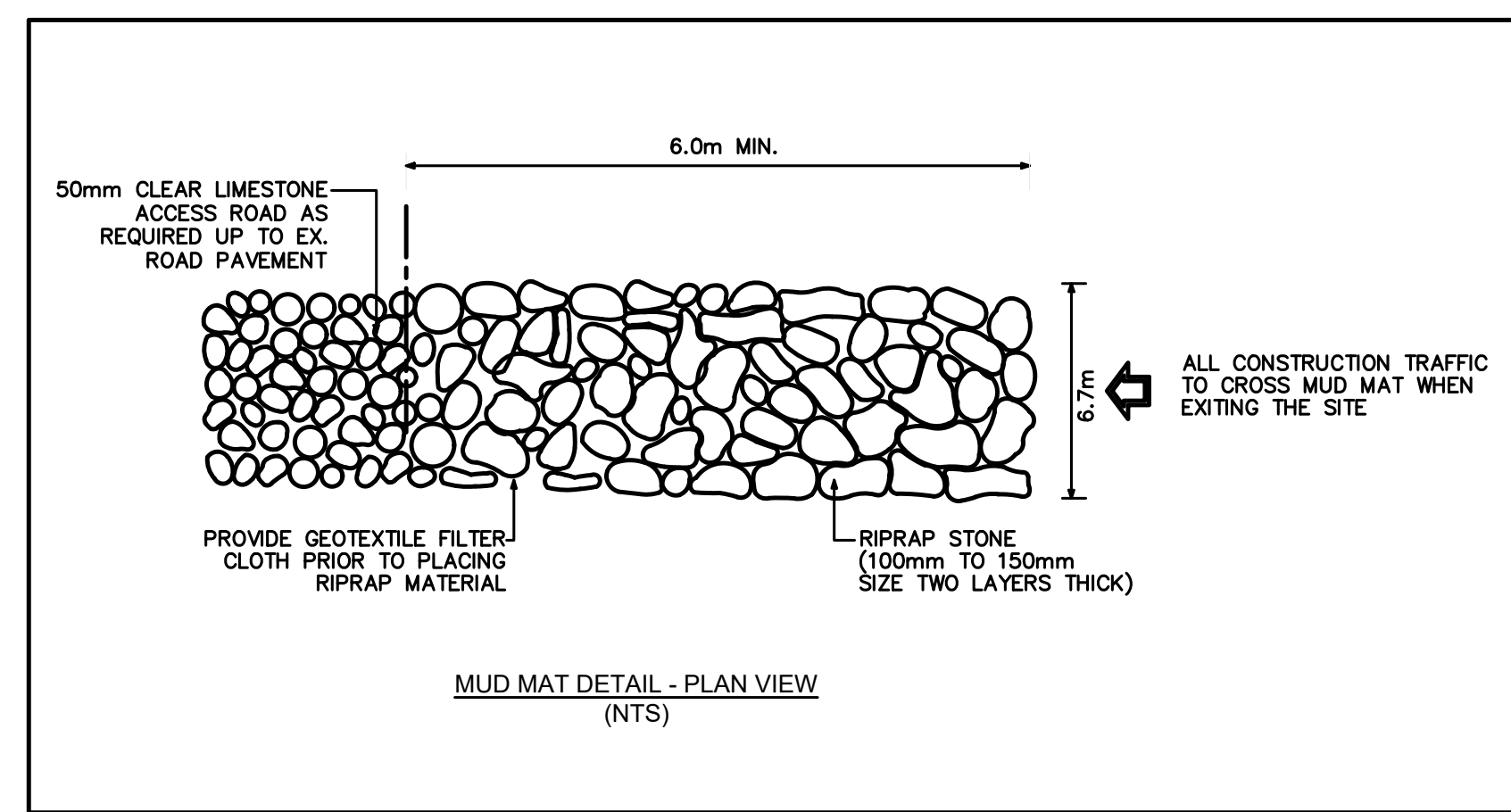
4 TYPICAL SWALE WITH SUBDRAIN
SCALE: 1:20



5 TYPICAL SWALE WITHOUT SUBDRAIN
SCALE: 1:20



6 TYPICAL TRENCH DETAIL
SCALE: NTS



7 MUD MAT DETAIL
SCALE: NTS



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

CONSULTANT:



SEAL:



CLIENT:



CLIENT REF. #

PROJECT:

TERRACE FLATS

KEY PLAN:



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PRELIMINARY
NOT FOR CONSTRUCTION

ISSUED FOR - REVISION:




IS	RE	DATE	DESCRIPTION
4		2022-03-10	RE-ISSUED FOR SPA
3		2022-01-31	RE-ISSUED FOR SPA
2		2021-10-15	RE-ISSUED FOR SPA
1		2021-07-07	ISSUED FOR SPA

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

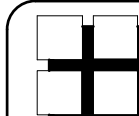
DISCIPLINE:	TITLE:
CIVIL	TERRACE FLATS DETAILS & SECTIONS II
SHEET NUMBER:	C1.7
ISSUE:	RE-ISSUED FOR SPA
DATE OF:	MARCH 10, 2022
REV #	0

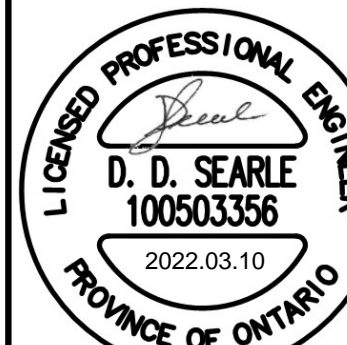
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NOTES:
1. REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.

ESC LEGEND:
 LIGHT DUTY SILT FENCE (OPSD-219.110)
 FILTER CLOTH PROTECTION
 MUD MAT

wsp
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CONSULTANT:

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SEAL:

D. D. SEARLE
 100503356
 2022.03.10
 PROVINCE OF ONTARIO

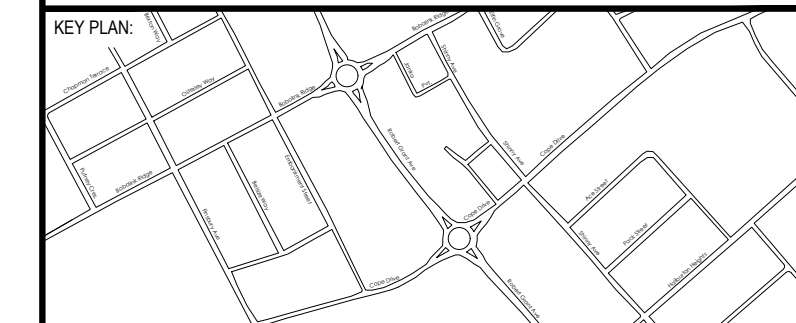
SEAL:

S. P. DAVIDSON
 100133944
 2022.03.10
 PROVINCE OF ONTARIO

CLIENT:

RICHCRAFT
 Group Of Companies

CLIENT REF. #
 PROJECT:
TERRACE FLATS



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PRELIMINARY
 NOT FOR CONSTRUCTION

ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
4	2022-03-10	RE-ISSUED FOR SPA
3	2022-01-31	RE-ISSUED FOR SPA
2	2021-10-15	RE-ISSUED FOR SPA
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

DRAWN BY: MH/JT

CHECKED BY: SD

DISCIPLINE: CIVIL

TITLE:
**TERRACE FLATS
 SEDIMENT AND EROSION CONTROL PLAN**

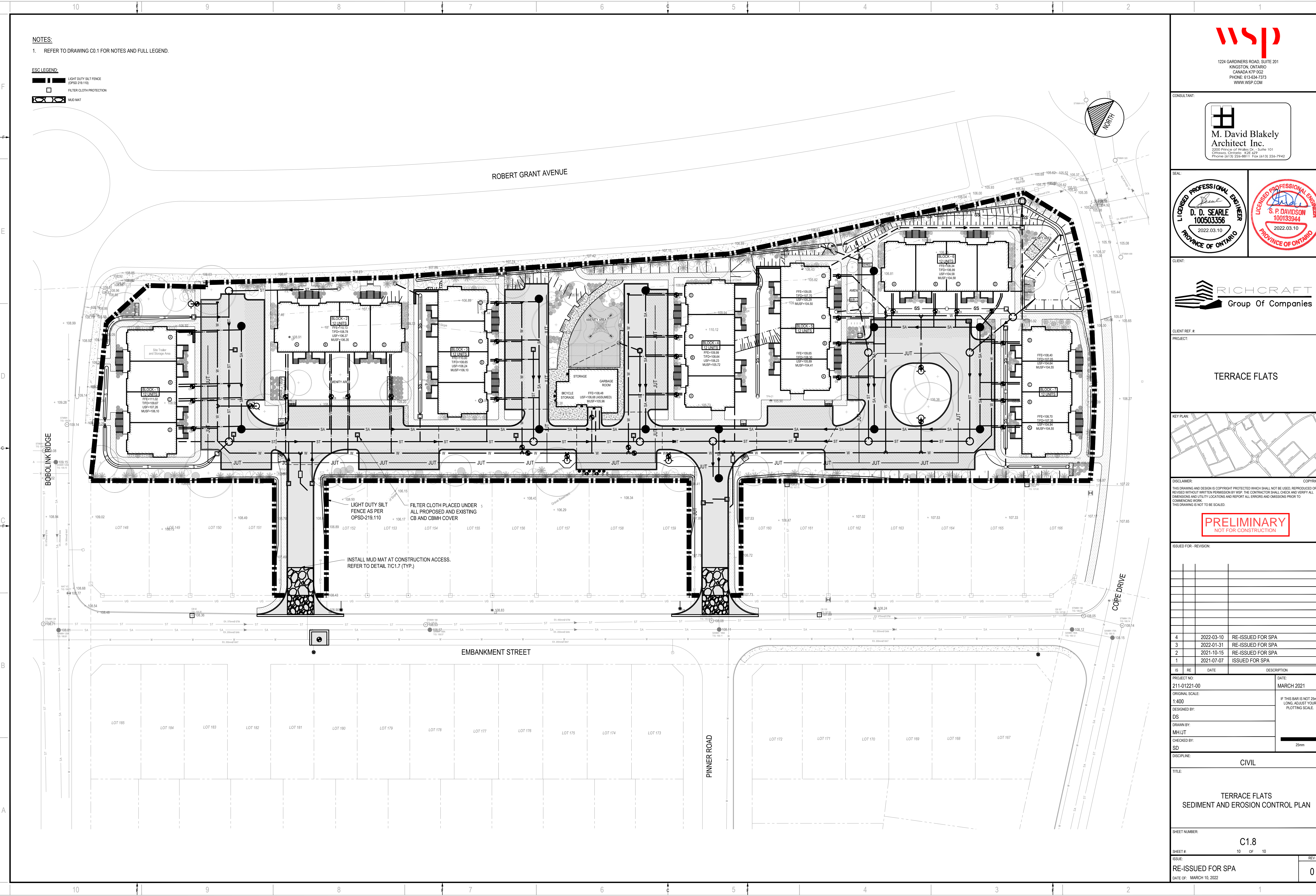
SHEET NUMBER:
C1.8

SHEET # 10 OF 10

ISSUE:
RE-ISSUED FOR SPA

DATE OF: MARCH 10, 2022

REV # 0



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 CITY PLAN NO. 18498