

BOLLARD LIST		BOLLARD LIST		BOLLARD LIST		BOLLARD LIST		BOLLARD LIST		BOLLARD LIST		BLOCK LIST		BLOCK LIST		BLOCK LIST		MATADOR LIST	
REF No.	BOLLARD ANGLE	REF No.	BOLLARD ANGLE	REF No.	BOLLARD ANGLE	REF No.	BOLLARD ANGLE	REF No.	BOLLARD ANGLE	REF No.	BOLLARD ANGLE	REF No.	LENGTH	REF No.	LENGTH	REF No.	LENGTH	REF No.	BOLLARD QTY
22	90°	30	90°	38	90°	46	90°	54	90°	62	90°	U	1490	CC	1490	LL	1490	M2	5
23	90°	31	90°	39	90°	47	90°	55	90°	63	90°	V	1490	DD	1490	MM	1490	M3	5
24	90°	32	90°	40	90°	48	90°	56	90°	64	90°	W	1490	EE	1490	NN	1490		
25	90°	33	90°	41	90°	49	90°	57	90°	65	90°	X	1490	FF	1490				
26	90°	34	90°	42	90°	50	90°	58	90°	66	90°	Y	1490	GG	1490				
27	90°	35	90°	43	90°	51	90°	59	90°	67	90°	Z	1490	HH	1490				
28	90°	36	90°	44	90°	52	90°	60	90°	68	90°	AA	1490	JJ	1490				
29	90°	37	90°	45	90°	53	90°	61	90°			BB	1490	KK	1490				

NOTE:

* = ANGLES TO BE VALIDATED BY CONTRACTOR PRIOR TO FABRICATION.

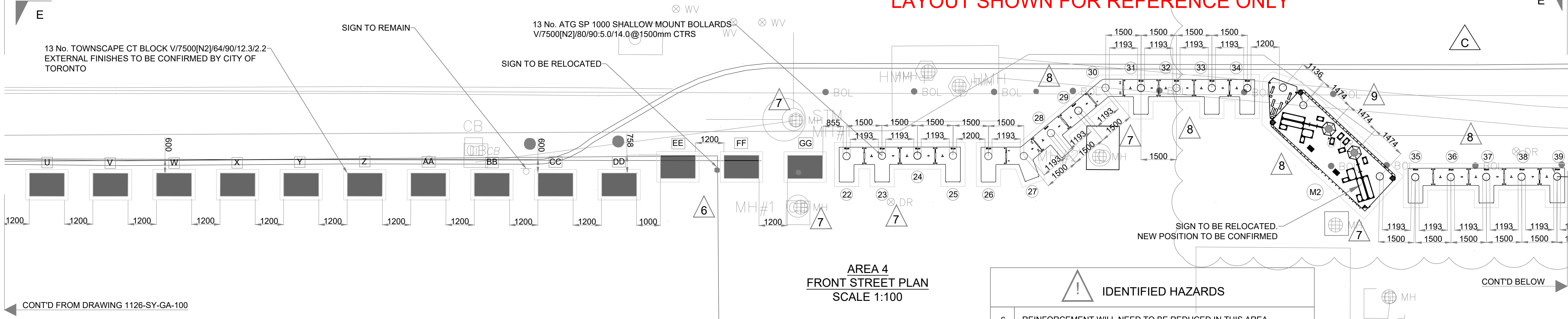
C

FOR SETTING OUT INFORMATION REFER TO DWG: 1126-SY-GA-000

CONT'D FROM DRAWING 1126-SY-GA-100

CONT'D BELOW

BOLLARDS SUPPLY & INSTALLATION NOT IN CONTRACT
LAYOUT SHOWN FOR REFERENCE ONLY



AREA 4
FRONT STREET PLAN
SCALE 1:100



IDENTIFIED HAZARDS

- REINFORCEMENT WILL NEED TO BE REDUCED IN THIS AREA.
- CARE TO BE TAKEN AROUND MANHOLES AND DRAINS.
- EXISTING BOLLARDS TO BE REMOVED PRIOR TO WORKS COMMENCING.
- CONNECTING POINTS FOR MATADOR DRAINAGE TO BE PROVIDED.

CONT'D ON DRAWING 1126-SY-GA-102

HEALD EM HT-3 MANUALLY OPERATED MATADOR 4 BOLLARD SYSTEM WITH 110mm ARCHITECTURAL PAVING SYSTEM (APS) V/7200[N2A]/80/90.3/2 WITH 1No ADDITIONAL STATIC BOLLARD ON BESPOKE BRACKET EACH SIDE. MATADOR 4 BASE DIMENSIONS 5490 X 2060 X 160mm OPENING. APERTURE 4147mm (EXCLUDING SHROUDS) 307mm Ø STAINLESS STEEL SHROUDS. BANDING REQUIREMENTS TO BE CONFIRMED & BASE FINISHES TO BE CONFIRMED. HEAT TRACE TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS. FOR DRAINAGE OUTLET DETAILS REFER TO LEA DWG No: UHVM-C2023-12
* ARCHITECTURAL PAVING SYSTEM TO BE IN-FILLED WITH MATCHING EXISTING PAVERS.

14 No. ATG SP 1000 SHALLOW MOUNT BOLLARDS V/7500[N2]/80/90.5.0/14.0@1500mm CTRS

15 No. ATG SP 1000 SHALLOW MOUNT BOLLARDS V/7500[N2]/80/90.5.0/14.0@1500mm CTRS

6 No. TOWNSCAPE CT BLOCK V/7500[N2]/64/90/12.3/2.2 EXTERNAL FINISHES TO BE CONFIRMED BY CITY OF TORONTO

SIGN TO REMAIN.

TRENCH DRAIN TO BE CAPPED AND PIPED THROUGH MATADOR FOR CONTINUITY FLOW.

BOLLARDS SUPPLY & INSTALLATION NOT IN CONTRACT
LAYOUT SHOWN FOR REFERENCE ONLY

AREA 5
FRONT STREET PLAN
SCALE 1:100

NOTES

GENERAL

- THIS DRAWING SHALL BE READ IN CONJUNCTION TO THE GENERAL NOTES IN DRAWING MP431-LCR-HVM-Z-NTS-0001.
- DO NOT SCALE FROM THIS DRAWING.
- ANY QUERIES ARE TO BE REFERRED BACK TO THE ENGINEER FOR CLARIFICATION.
- ALL DIMENSIONS MARKED WITH ** SHALL BE CONFIRMED BY THE CONTRACTOR ON SITE.
- ALL HVM LAYOUTS SHOULD BE CONFIRMED BY MAIN CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR CHECKING AND CLARIFICATION OF ANY DEVIATION FROM PLANNED DIMENSIONS.
- TOLERANCE = +0, -10

BLOCK - TOWNSCAPE CT BLOCK

- BLOCK 1490mm WIDE x 990mm DEPTH x 600mm DEEP. FINISH TO BE CONFIRMED.

BOLLARD - ATG SP 1000 SHALLOW MOUNT BOLLARDS

- SHROUD STYLE TYPE B : Ø307mm O/D x 2mm x 1150mm TOP OF SHROUDS TO BE CONFIRMED.

FINISHES: BANDING REQUIREMENTS & BASE FINISHES TO BE CONFIRMED.

TO BE READ IN CONJUNCTION WITH DWG No:

1126-SY-GA-000
1126-SY-GA-100
1126-SY-GA-102
1126-SY-GA-200
1126-SY-GA-201
1126-SY-GA-202
1126-SY-GA-203
1126-SY-GA-204
1126-SY-GA-205
1126-SY-GA-206
1126-SY-GA-300
1126-SY-GA-301
1126-SY-GA-302
1126-SY-GA-303
1126-SY-GA-400
1126-SY-GA-401
1126-SY-GA-402
1126-SY-GA-403
1126-SY-GA-404

TO BE READ IN CONJUNCTION WITH LEA DWG No's:

UVHM-C2023-01
UVHM-C2023-02
UVHM-C2023-03
UVHM-C2023-04
UVHM-C2023-05
UVHM-C2023-06
UVHM-C2023-08
UVHM-C2023-09

C	11.12.23	SCHEDULES REVISED	MJH		
B	05.12.23	FOR TENDER	MJH	MJC	MJC
A	06.10.23	DESIGN FREEZE ISSUE	MJH	MJC	MJC
P01	08.09.23	PRELIMINARY ISSUE	MJH	MJC	MJC
REV	DATE	DESCRIPTION	BY	CHKD	APVD

CONTRACT NAME:
UNION STATION TORONTO HVM - 23177804

CLIENT:
CITY OF TORONTO.

D.J. Goode & Associates Ltd.
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DRAWN BY: MJH	DATE: 08.09.23	CHECKED BY: MJC	DATE: 08.09.23	APPROVED BY:	DATE:
SIGNED:		SIGNED:		SIGNED:	

DRAWING TITLE:
UNION STATION TORONTO
FRONT STREET HVM PLAN

SCALE: 1:100 @ A1	DRAWING STATUS: FOR TENDER	PROTECTIVE MARKING:
DRAWING NUMBER: 1126-SY-GA-101		REV: C