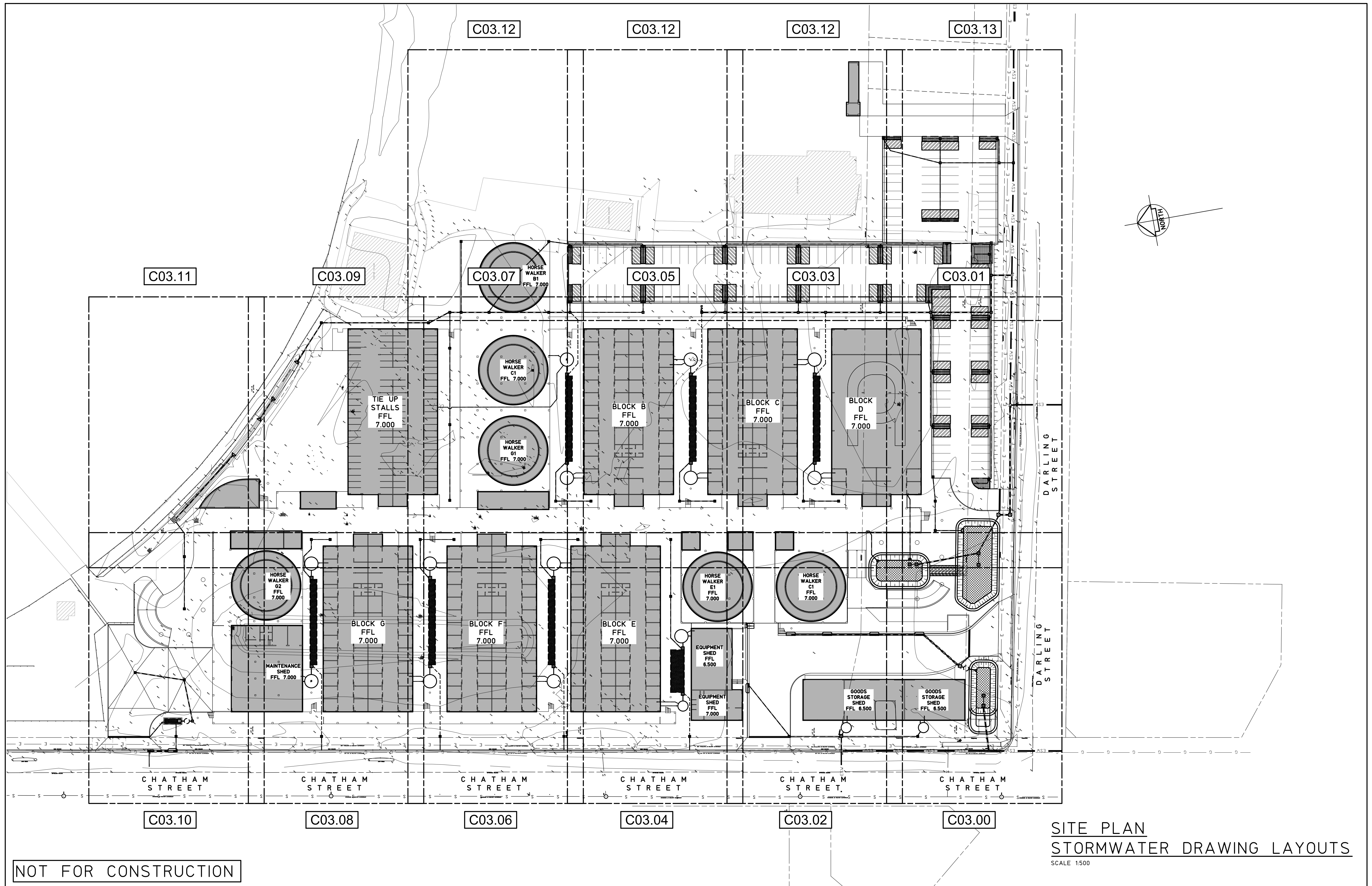
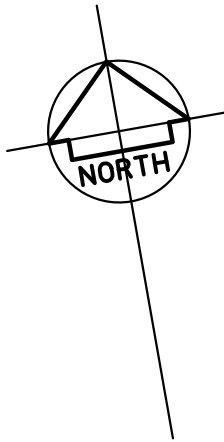




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3	REVISED DEVELOPMENT APPLICATION	7.4.22						SITE PLAN		SCALES		C.W.	B.C.	-	A1
2	DEVELOPMENT APPLICATION	12.08.21						STORMWATER DRAWING LAYOUTS		JOB No			DRAWING No	ISSUE	
1	ISSUED FOR APPROVAL	09.07.21								16-548-1			C03		3
0	PRELIMINARY	02.07.21													
ISSUE	REASON FOR ISSUE	DATE	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE		ISSUE									
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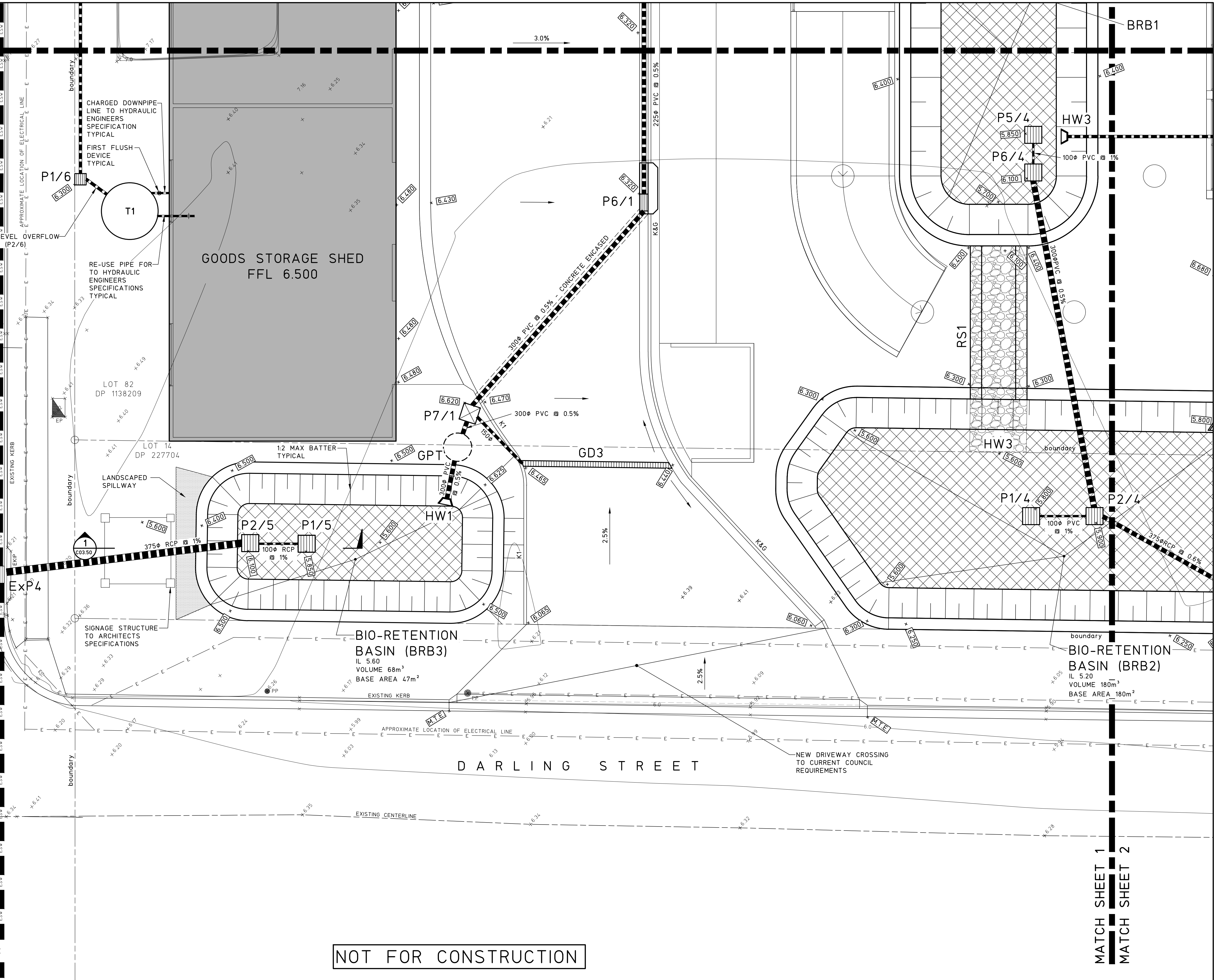
MATCH SHEET 3
MATCH SHEET 1



CHATHAM STREET

STORMWATER PLAN
SHEET 1

SCALE 1:100
STORMWATER NOTES
1. REFER TO DRAWING C03.11 FOR STORMWATER NOTES AND PIT SCHEDULE
2. REFER TO DRAWING C03.13 FOR LEGEND



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3	REVISED DEVELOPMENT APPLICATION	7.4.22		
2	DEVELOPMENT APPLICATION	12.08.21		
1	ISSUED FOR APPROVAL	09.07.21		
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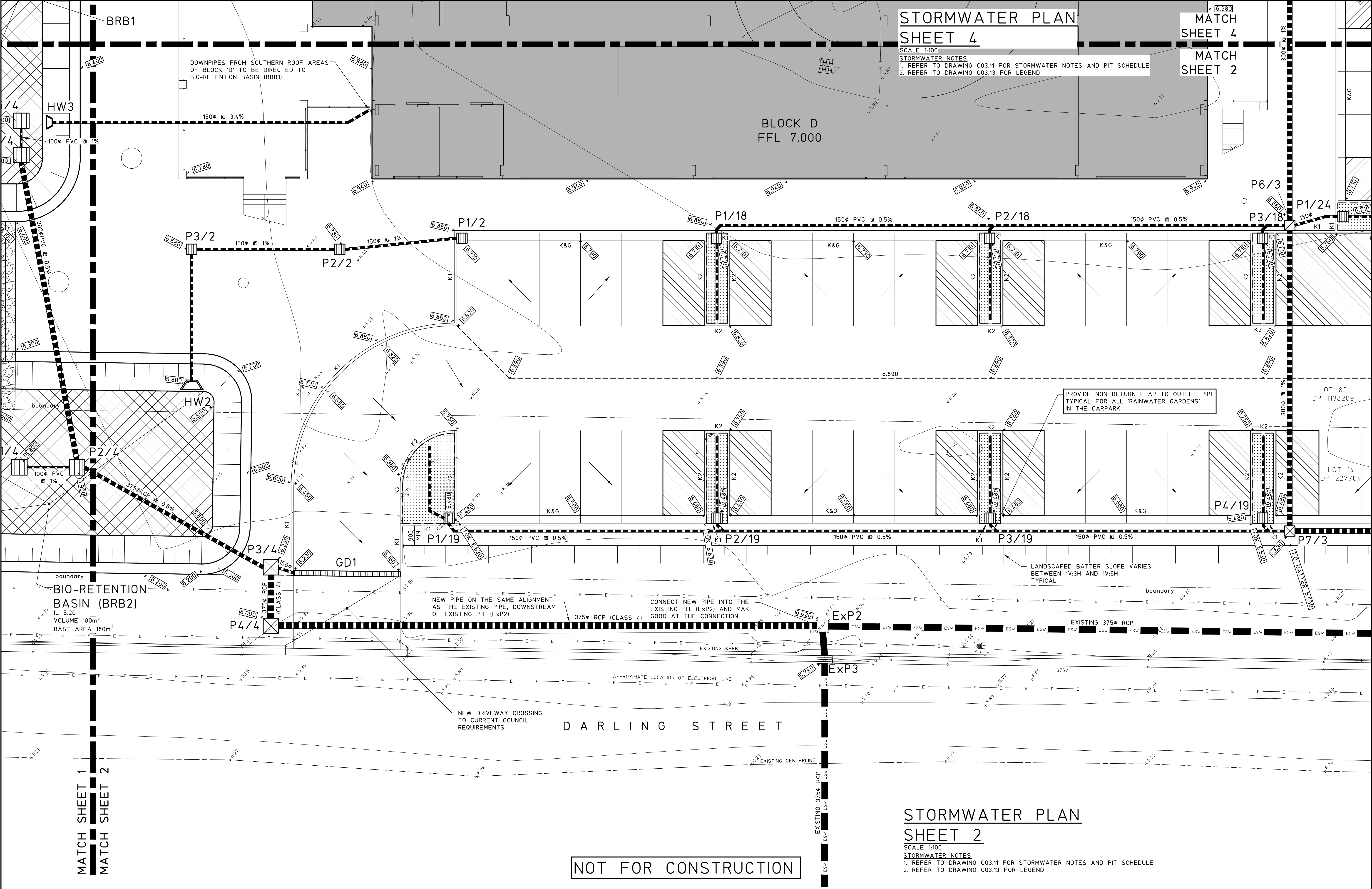
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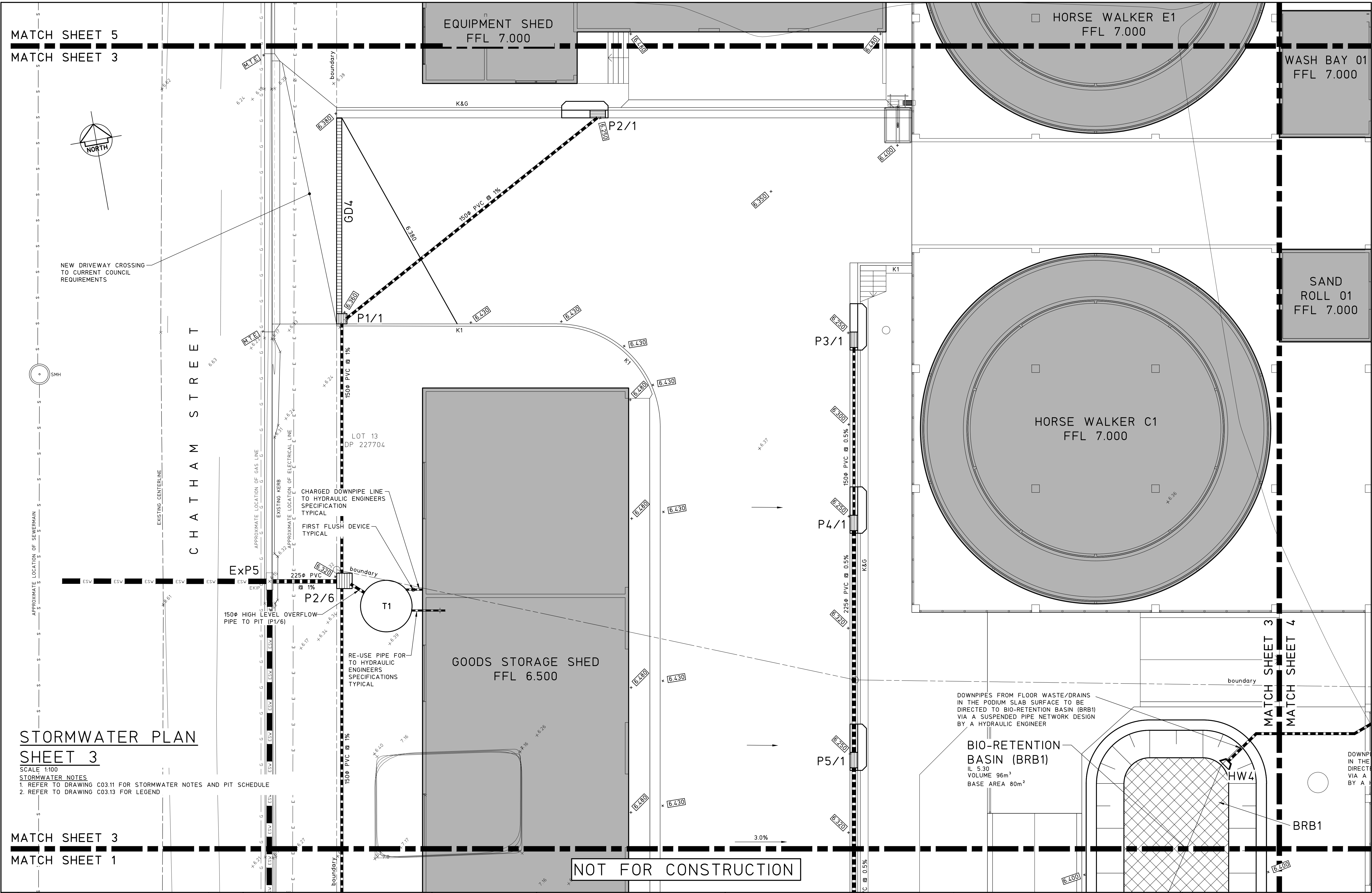
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TITLE	STORMWATER PLAN SHEET 1

PROJECT	PROPOSED STABLES COMPLEX AT; NEWCASTLE JOCKEY CLUB No.100 DARLING STREET, BROADMEADOW
---------	--

DO NOT SCALE DRAWING			
DRAWN C.W.	ENGINEER B.C.	No in SET -	SHEET A1
SCALES 1:100	JOB No 16-548-1	DRAWING No C03.00	ISSUE 4

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm





MATCH SHEET 5
MATCH SHEET 3

**STORMWATER PLAN
SHEET 3**

SCALE 1:100
STORMWATER NOTES
1. REFER TO DRAWING C03.11 FOR STORMWATER NOTES AND PIT SCHEDULE
2. REFER TO DRAWING C03.13 FOR LEGEND

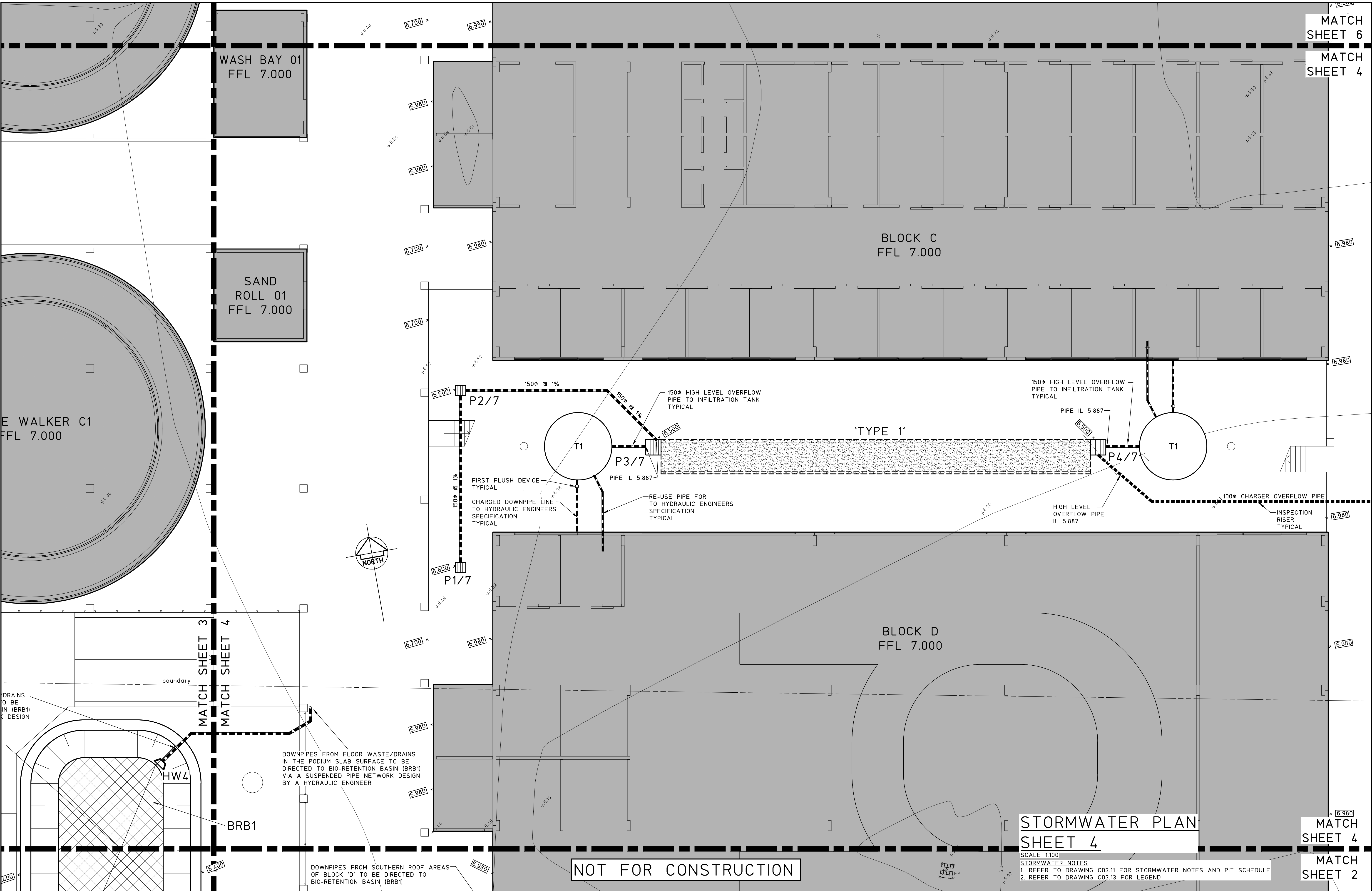
MATCH SHEET 3
MATCH SHEET 1

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4 REVISED DEVELOPMENT APPLICATION			26.4.22												No in SET		SHEET	
3 REVISED DEVELOPMENT APPLICATION			7.4.22												-		A1	
2 DEVELOPMENT APPLICATION			12.08.21												JOB No		DRAWING No	
1 ISSUED FOR APPROVAL			09.07.21												16-548-1		C03.02	
0 PRELIMINARY			02.07.21														ISSUE	
ISSUE	REASON FOR ISSUE		DATE	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE		ISSUE											



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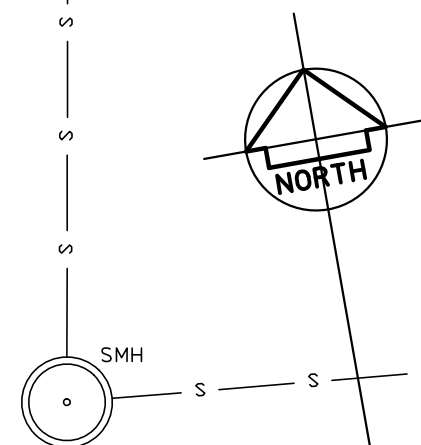
FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm



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3	REVISED DEVELOPMENT APPLICATION	7.4.22						TITLE		SCALES		JOB No		DRAWING No		ISSUE			
2	DEVELOPMENT APPLICATION	12.08.21						STORMWATER PLAN		1:100		16-548-1		C03.03		3			
1	ISSUED FOR APPROVAL	09.07.21						SHEET 4											
0	PRELIMINARY	02.07.21																	
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FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm

MATCH SHEET 5



REMOVE EXISTING DRIVEWAY -
LAYBACK AND REPLACE WITH
STANDARD KERB & GUTTER

CHATHAM STREET

STORMWATER PLAN
SHEET 5

SCALE 1:100

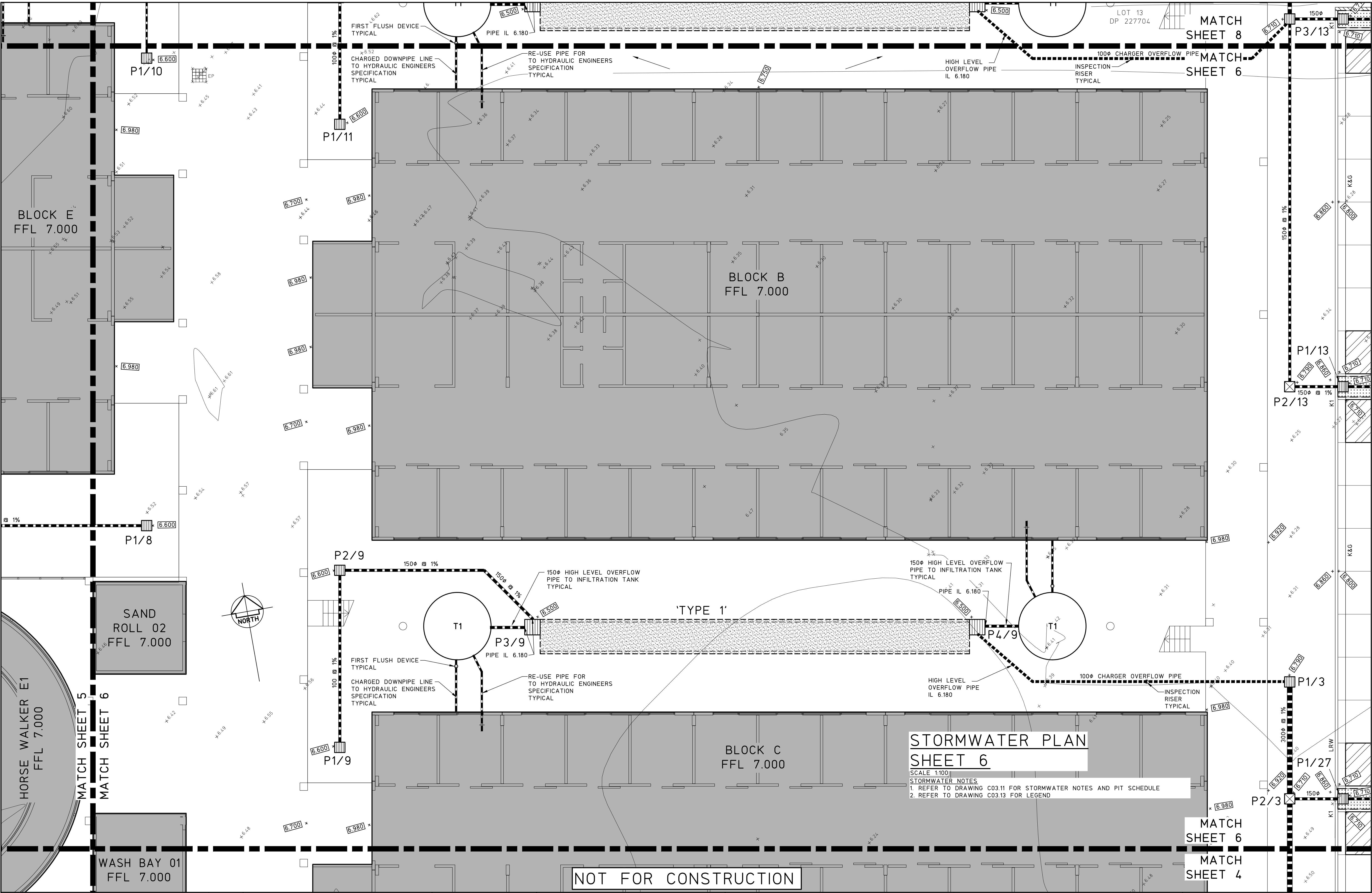
STORMWATER NOTES

1. REFER TO DRAWING C03.11 FOR STORMWATER NOTES AND PIT SCHEDULE
2. REFER TO DRAWING C03.13 FOR LEGEND

MATCH SHEET 3

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2 DEVELOPMENT APPLICATION			12.08.21									STORMWATER PLAN			C.W.			B.C.		-		A1			
1 ISSUED FOR APPROVAL			09.07.21									SHEET 5			SALES			JOB No		DRAWING No		ISSUE			
0 PRELIMINARY			02.07.21												1:100			16-548-1		C03.04		3			
ISSUE			REASON FOR ISSUE			DATE			DATE OF RELEASE			RESPONSIBLE PRINCIPAL SIGNATURE			ISSUE										

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm



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3	REVISED DEVELOPMENT APPLICATION	7.4.22							TITLE			SCALES	JOB No	DRAWING No	ISSUE	
2	DEVELOPMENT APPLICATION	12.08.21							STORMWATER PLAN			1:100	16-548-1	C03.05	3	
1	ISSUED FOR APPROVAL	09.07.21							SHEET 6							
0	PRELIMINARY	02.07.21														
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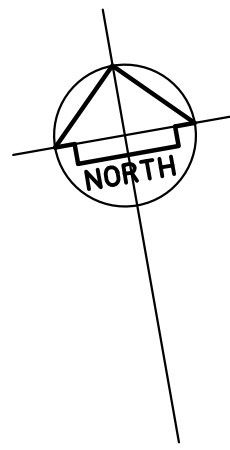
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FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm

MATCH SHEET 9
MATCH SHEET 7

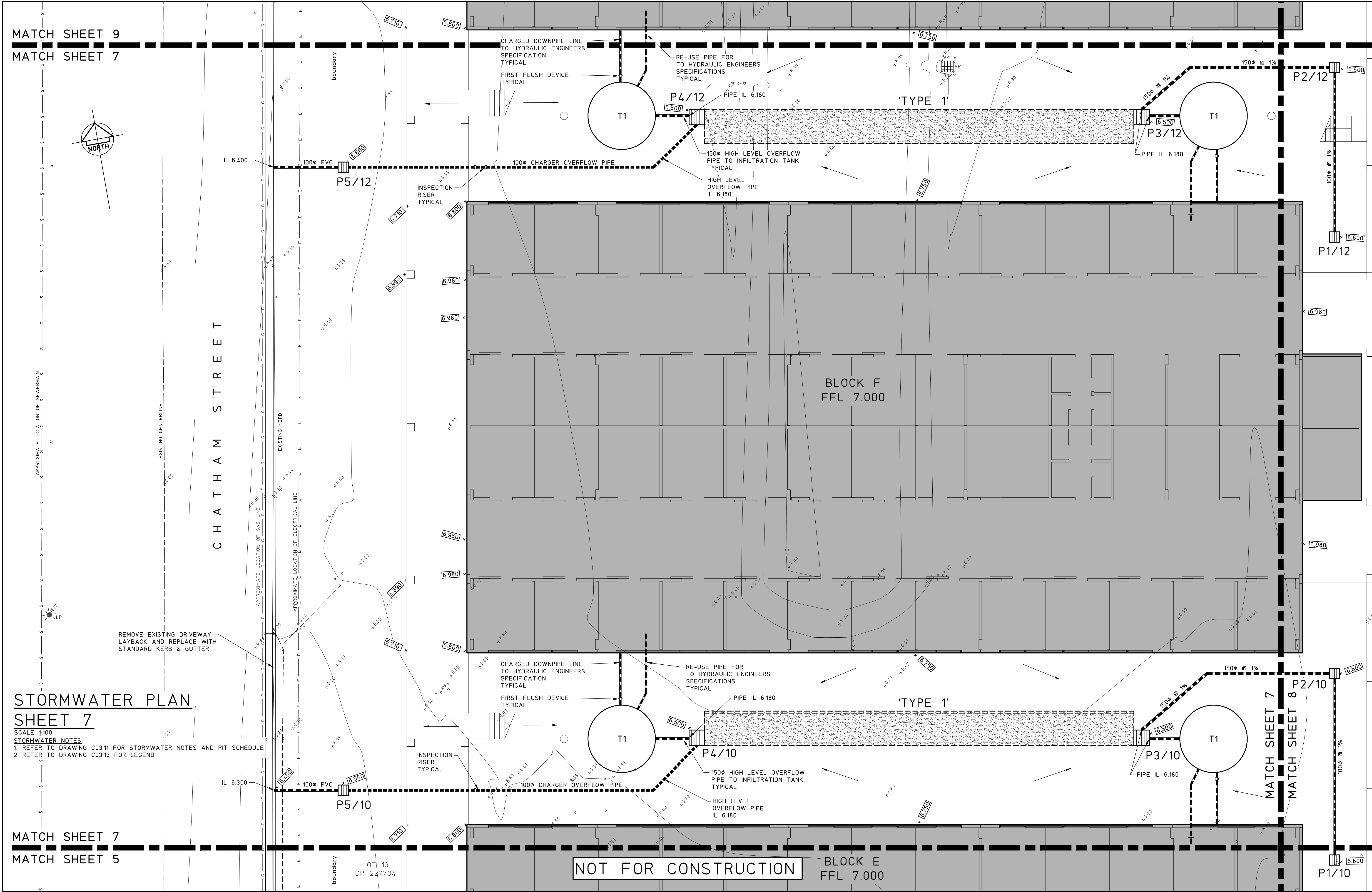


CHATHAM STREET

STORMWATER PLAN
SHEET 7

SCALE 1:100
STORMWATER NOTES
1. REFER TO DRAWING C03.11 FOR STORMWATER NOTES AND PIT SCHEDULE
2. REFER TO DRAWING C03.13 FOR LEGEND

MATCH SHEET 7
MATCH SHEET 5



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3	REVISED DEVELOPMENT APPLICATION	7.4.22						TITLE				SCALES		JOB No.		DRAWING No.		ISSUE	
2	DEVELOPMENT APPLICATION	12.08.21						STORMWATER PLAN				1:100		16-548-1		C03.06		3	
1	ISSUED FOR APPROVAL	09.07.21						SHEET 7											
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ISSUE	REASON FOR ISSUE	DATE		DATE OF RELEASE		RESPONSIBLE PRINCIPAL SIGNATURE													

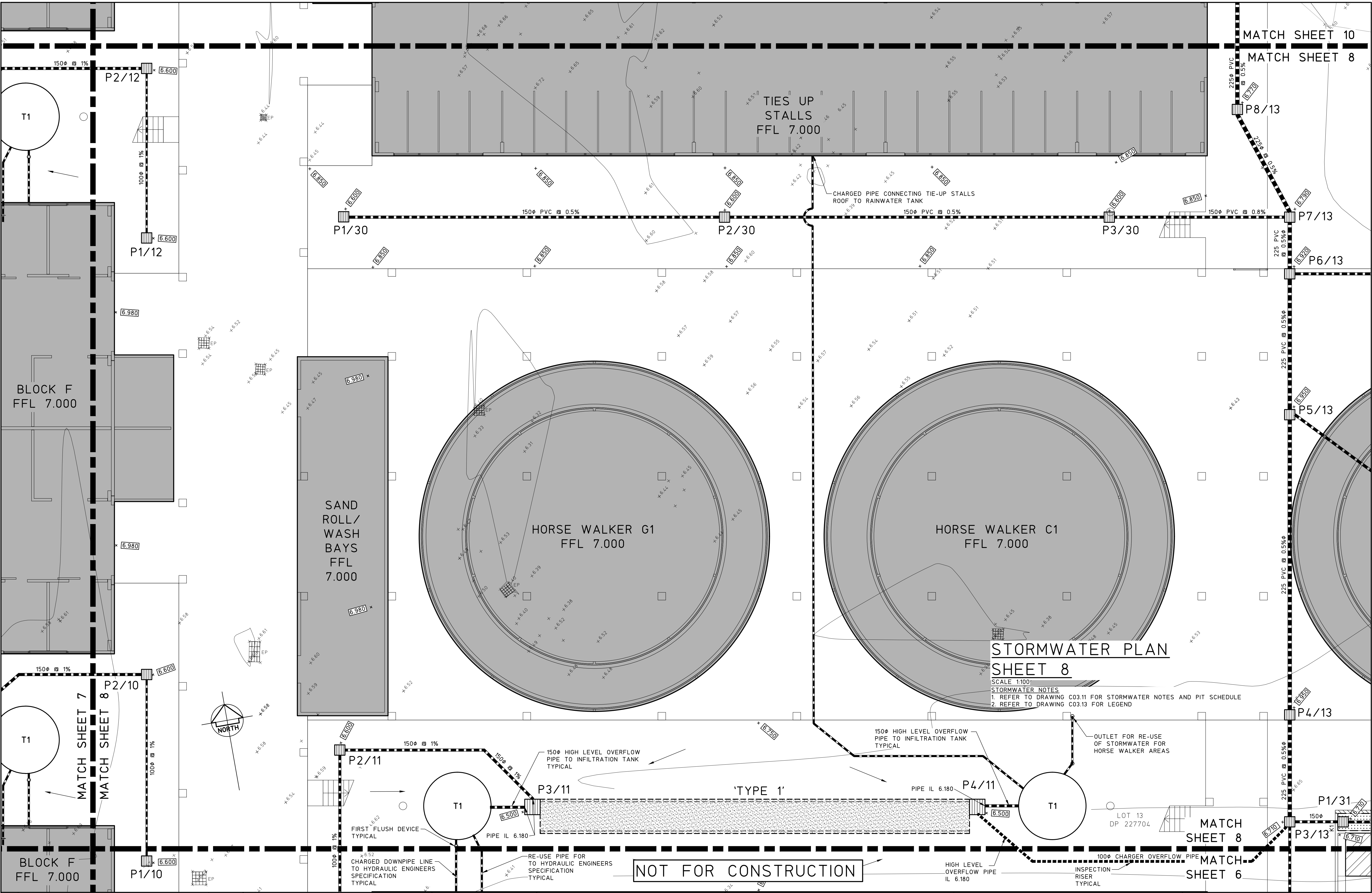
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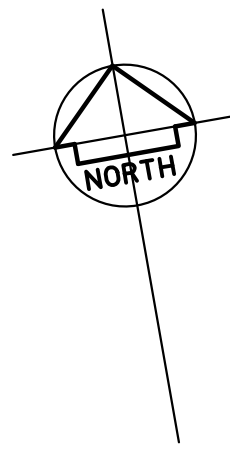
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3 REVISED DEVELOPMENT APPLICATION 7.4.22			mpc consulting engineers civil+structural			TITLE STORMWATER PLAN SHEET 8			100mm CHARGER OVERFLOW PIPE TYPICAL			JOB No 16-548-1 DRAWING No C03.07		
2 DEVELOPMENT APPLICATION 12.08.21			Level 1, 16 Telford Street, NEWCASTLE EAST, NSW 2300 PO BOX 553 THE JUNCTION, NSW 2291 Tel: (02) 4927 5566 Fax: (02) 4927 5577 Email: admin@mpceng.com.au Web: www.mpceng.com.au A.C.N. 098 542 575			LOT 13 DP 227704			HIGH LEVEL OVERFLOW PIPE IL 6.180			ISSUE 3		
1 ISSUED FOR APPROVAL 09.07.21						MATCH SHEET 8			INSPECTION RISER TYPICAL					
0 PRELIMINARY 02.07.21						MATCH SHEET 6								
ISSUE	REASON FOR ISSUE	DATE	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE		ISSUE								

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm

MATCH SHEET 11
MATCH SHEET 9

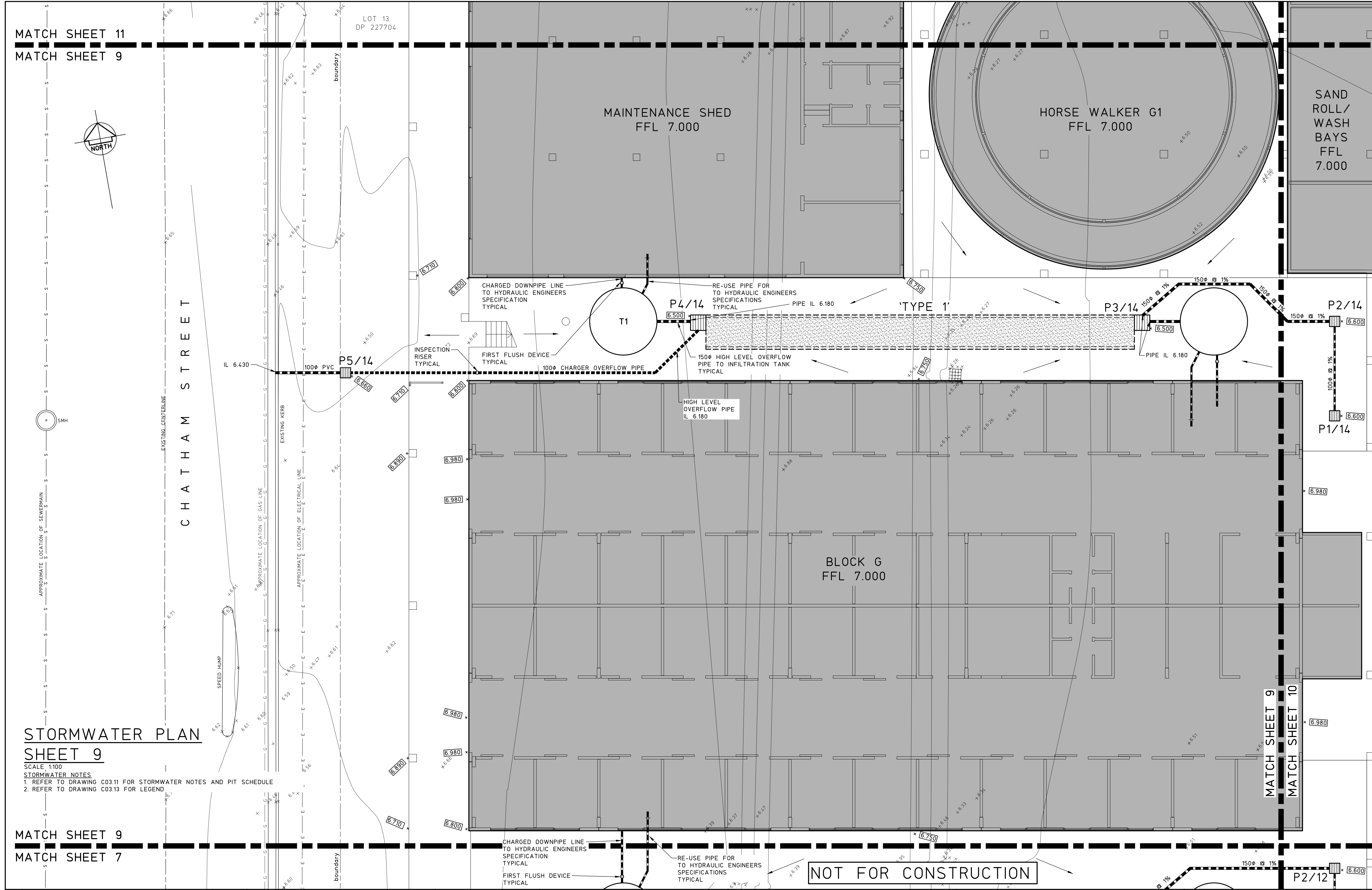


CHATHAM STREET

STORMWATER PLAN
SHEET 9

SCALE 1:100
STORMWATER NOTES
1. REFER TO DRAWING C03.11 FOR STORMWATER NOTES AND PIT SCHEDULE
2. REFER TO DRAWING C03.13 FOR LEGEND

MATCH SHEET 9
MATCH SHEET 7



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						TITLE STORMWATER PLAN SHEET 9				SCALES 1:100	JOB No 16-548-1	DRAWING No C03.08	ISSUE 3
ISSUE		REASON FOR ISSUE		DATE		DATE OF RELEASE		RESPONSIBLE PRINCIPAL SIGNATURE		ISSUE			
3		REVISED DEVELOPMENT APPLICATION		7.4.22									
2		DEVELOPMENT APPLICATION		12.08.21									
1		ISSUED FOR APPROVAL		09.07.21									
0		PRELIMINARY		02.07.21									

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MATCH SHEET 10

SCALE 1:100

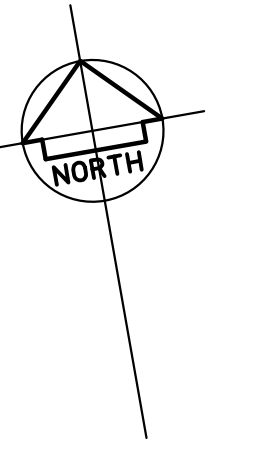
STORMWATER NOTES

1. REFER TO DRAWING C03.11 FOR STORMWATER NOTES AND PIT SCHEDULE

2. REFER TO DRAWING C03.13 FOR LEGEND

STORMWATER NOTES

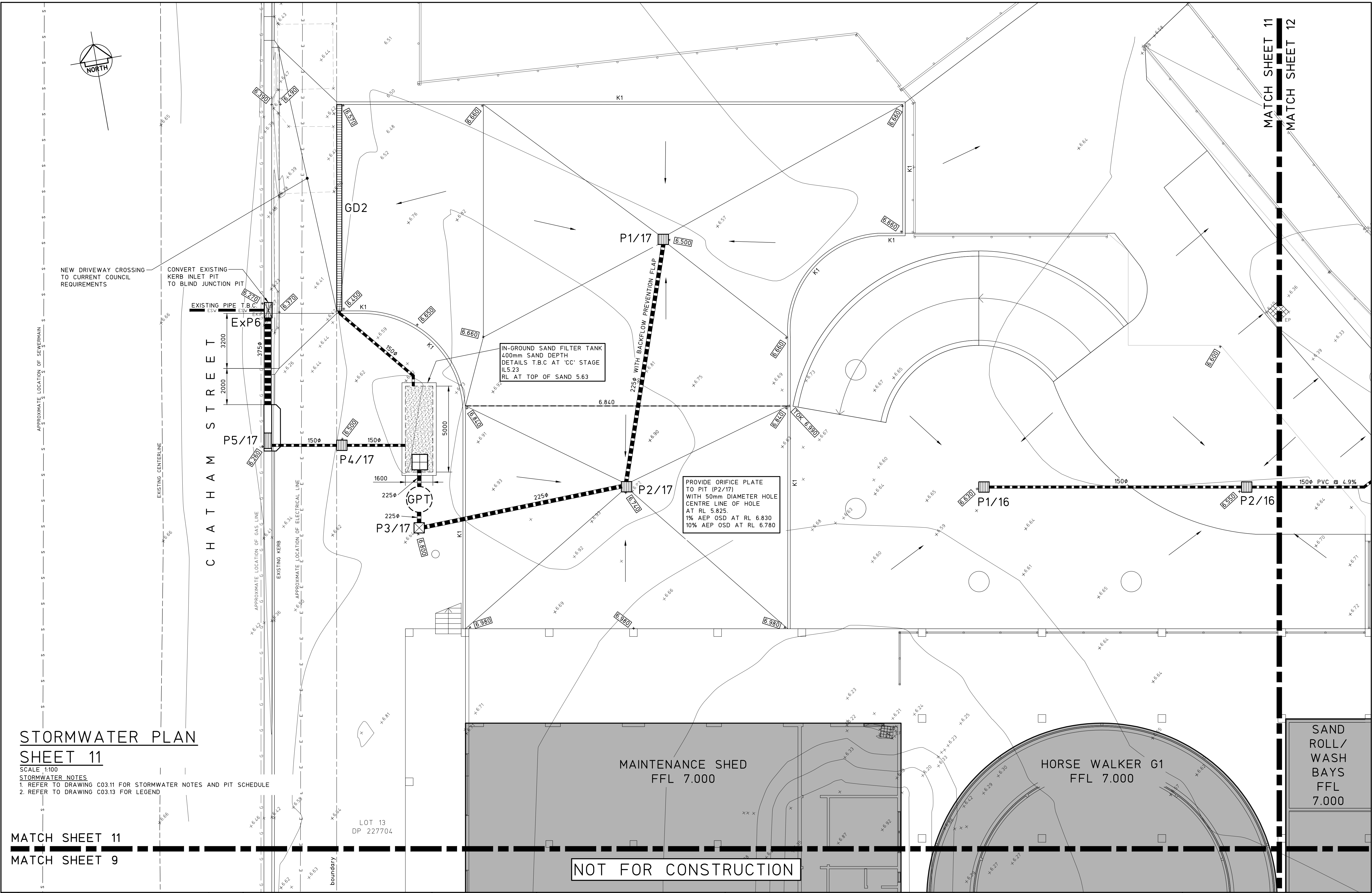
1. REFER TO DRAWING C03.11 FOR STORMWATER NOTES AND PIT SCHEDULE
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3	REVISED DEVELOPMENT APPLICATION	7.4.22															
2	DEVELOPMENT APPLICATION	12.08.21															
1	ISSUED FOR APPROVAL	09.07.21															
0	PRELIMINARY	02.07.21															
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FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm



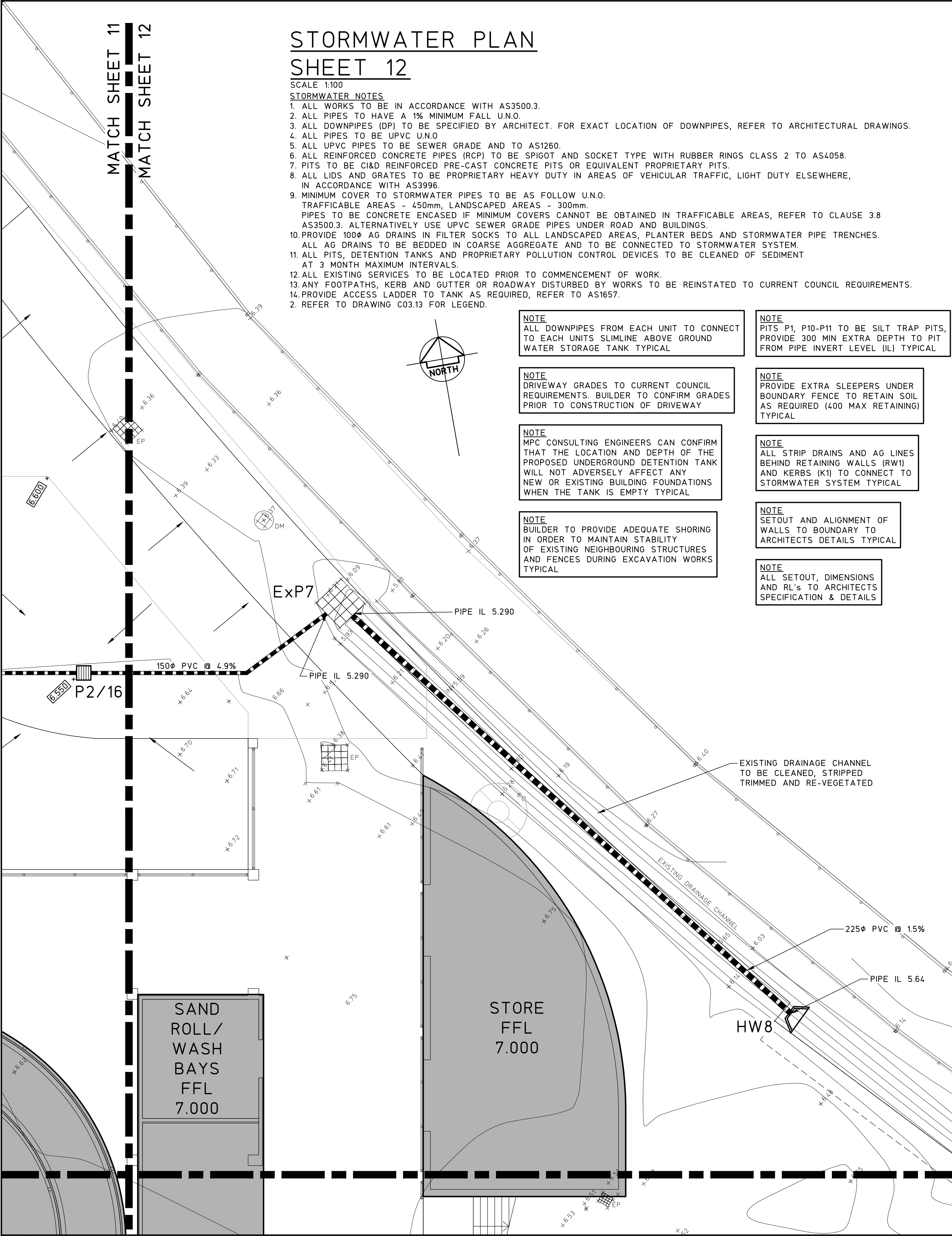
STORMWATER PLAN
SHEET 11

SCALE 1:100
STORMWATER NOTES
1. REFER TO DRAWING C03.11 FOR STORMWATER NOTES AND PIT SCHEDULE
2. REFER TO DRAWING C03.13 FOR LEGEND

MATCH SHEET 11
MATCH SHEET 9

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						TITLE STORMWATER PLAN SHEET 11				SCALES 1:100	JOB No 16-548-1	DRAWING No C03.10	ISSUE 4
ISSUE		REASON FOR ISSUE		DATE		DATE OF RELEASE		RESPONSIBLE PRINCIPAL SIGNATURE					
4		REVISED DEVELOPMENT APPLICATION		26.4.22									
3		REVISED DEVELOPMENT APPLICATION		7.4.22									
2		DEVELOPMENT APPLICATION		12.08.21									
1		ISSUED FOR APPROVAL		09.07.21									
0		PRELIMINARY		02.07.21									

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm



STORMWATER PLAN

SHEET 12

SCALE 1:100

STORMWATER NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH AS3500.3.
2. ALL PIPES TO HAVE A 1% MINIMUM FALL U.N.O.
3. ALL DOWNPIPES (DP) TO BE SPECIFIED BY ARCHITECT. FOR EXACT LOCATION OF DOWNPIPES, REFER TO ARCHITECTURAL DRAWINGS.
4. ALL PIPES TO BE UPVC U.N.O.
5. ALL UPVC PIPES TO BE SEWER GRADE AND TO AS1260.
6. ALL REINFORCED CONCRETE PIPES (RCPI) TO BE SPIGOT AND SOCKET TYPE WITH RUBBER RINGS CLASS 2 TO AS4058.
7. PITS TO BE C&D REINFORCED PRE-CAST CONCRETE PITS OR EQUIVALENT PROPRIETARY PITS.
8. ALL LIDS AND GRATES TO BE PROPRIETARY HEAVY DUTY IN AREAS OF VEHICULAR TRAFFIC, LIGHT DUTY ELSEWHERE, IN ACCORDANCE WITH AS3996.
9. MINIMUM COVER TO STORMWATER PIPES TO BE AS FOLLOW U.N.O:
TRAFFICABLE AREAS - 450mm, LANDSCAPED AREAS - 300mm.
PIPES TO BE CONCRETE ENCASED IF MINIMUM COVERS CANNOT BE OBTAINED IN TRAFFICABLE AREAS, REFER TO CLAUSE 3.8 AS3500.3. ALTERNATIVELY USE UPVC SEWER GRADE PIPES UNDER ROAD AND BUILDINGS.
10. PROVIDE 100# AG DRAINS IN FILTER SOCKS TO ALL LANDSCAPED AREAS, PLANTER BEDS AND STORMWATER PIPE TRENCHES. ALL AG DRAINS TO BE BEDDED IN COARSE AGGREGATE AND TO BE CONNECTED TO STORMWATER SYSTEM.
11. ALL PITS, DETENTION TANKS AND PROPRIETARY POLLUTION CONTROL DEVICES TO BE CLEANED OF SEDIMENT AT 3 MONTH MAXIMUM INTERVALS.
12. ALL EXISTING SERVICES TO BE LOCATED PRIOR TO COMMENCEMENT OF WORK.
13. ANY FOOTPATHS, KERB AND GUTTER OR ROADWAY DISTURBED BY WORKS TO BE REINSTATED TO CURRENT COUNCIL REQUIREMENTS.
14. PROVIDE ACCESS LADDER TO TANK AS REQUIRED, REFER TO AS1657.
2. REFER TO DRAWING C03.13 FOR LEGEND.

NOTE
ALL DOWNPIPES FROM EACH UNIT TO CONNECT TO EACH UNITS SLOMLINE ABOVE GROUND WATER STORAGE TANK TYPICAL

NOTE
PITS P1, P10-P11 TO BE SILT TRAP PITS, PROVIDE 300 MIN EXTRA DEPTH TO PIT FROM PIPE INVERT LEVEL (IL) TYPICAL

NOTE
DRIVEWAY GRADES TO CURRENT COUNCIL REQUIREMENTS. BUILDER TO CONFIRM GRADES PRIOR TO CONSTRUCTION OF DRIVEWAY

NOTE
PROVIDE EXTRA SLEEPERS UNDER BOUNDARY FENCE TO RETAIN SOIL AS REQUIRED (400 MAX RETAINING) TYPICAL

NOTE
MPC CONSULTING ENGINEERS CAN CONFIRM THAT THE LOCATION AND DEPTH OF THE PROPOSED UNDERGROUND DETENTION TANK WILL NOT ADVERSELY AFFECT ANY NEW OR EXISTING BUILDING FOUNDATIONS WHEN THE TANK IS EMPTY TYPICAL

NOTE
ALL STRIP DRAINS AND AG LINES BEHIND RETAINING WALLS (RW1) AND KERBS (K1) TO CONNECT TO STORMWATER SYSTEM TYPICAL

NOTE
BUILDER TO PROVIDE ADEQUATE SHORING IN ORDER TO MAINTAIN STABILITY OF EXISTING NEIGHBOURING STRUCTURES AND FENCES DURING EXCAVATION WORKS TYPICAL

NOTE
SETOUT AND ALIGNMENT OF WALLS TO BOUNDARY TO ARCHITECTS DETAILS TYPICAL

NOTE
ALL SETOUT, DIMENSIONS AND RL's TO ARCHITECTS SPECIFICATION & DETAILS

PIT SCHEDULE

LINE	PIT No.	SIZE	TYPE	SURFACE LEVEL S.L.	INVERT LEVEL I.L.	LINE	PIT No.	SIZE	TYPE	SURFACE LEVEL S.L.	INVERT LEVEL I.L.
LINE 1	P1/1	600x600	GRATED PIT	6.360	5.708	LINE 14	P1/14	600x600	GRATED PIT	6.600	6.150
	P2/1	2400 LINTEL	GRATED KIP	6.250	5.800		P2/14	900x900	GRATED PIT	6.600	6.003
	P3/1	2400 LINTEL	GRATED KIP	6.250	5.857		P3/14	900x900	GRATED PIT	6.500	5.170
	P4/1	2400 LINTEL	GRATED KIP	6.250	5.808		P4/14	600x600	GRATED PIT	6.500	5.170
	P5/1	2400 LINTEL	GRATED KIP	6.250	5.744		P5/14	600x600	GRATED PIT	6.660	6.470
	P6/1	2400 LINTEL	GRATED KIP	6.320	5.682	LINE 15	P1/15	600x600	GRATED PIT	6.480	5.825
	P7/1	900x900	JUNCTION PIT	6.620	5.616		P2/15	600x600	GRATED PIT	6.480	5.801
LINE 2	P1/2	600x600	GRATED PIT	6.710	6.068		P3/15	600x600	GRATED PIT	6.480	5.698
	P2/2	600x600	GRATED PIT	6.780	6.003		P4/15	600x600	GRATED PIT	6.280	5.483
	P3/2	600x600	GRATED PIT	6.680	5.873		P5/15	600x600	JUNCTION PIT	6.580	5.421
LINE 3	P1/3	600x600	GRATED PIT	6.790	6.218	LINE 16	P1/16	600x600	GRATED PIT	6.630	6.030
	P2/3	600x600	JUNCTION PIT	6.710	6.207		P2/16	600x600	GRATED PIT	6.550	5.830
	P3/3	600x600	JUNCTION PIT	6.920	6.187	LINE 17	P1/17	600x600	GRATED PIT	6.500	5.900
	P4/3	600x600	JUNCTION PIT	6.920	5.999		P2/17	600x600	GRATED PIT	6.740	5.800
	P5/3	600x600	JUNCTION PIT	6.920	5.979		P3/17	600x600	GRATED PIT	6.800	5.700
	P6/3	600x600	JUNCTION PIT	6.860	5.905		P4/17	600x600	GRATED PIT	6.500	5.200
	P7/3	600x600	JUNCTION PIT	6.630	5.771	LINE 18	P5/17	2700 LINTEL	GRATED KIP	6.260	5.140
LINE 4	P1/4	900x900	GRATED INLET PIT	5.800	5.120		P1/18	600x600	GRATED PIT	6.710	5.770
	P2/4	900x900	GRATED INLET PIT	5.900	5.100		P2/18	600x600	GRATED PIT	6.710	5.694
	P3/4	600x600	JUNCTION PIT	6.230	5.066		P3/18	600x600	GRATED PIT	6.710	5.620
	P4/4	600x600	JUNCTION PIT	6.000	5.053	LINE 19	P1/19	600x600	GRATED PIT	6.480	5.674
	P5/4	900x900	GRATED PIT	5.850	5.220		P2/19	600x600	GRATED PIT	6.480	5.599
	P6/4	900x900	GRATED PIT	6.100	5.200		P3/19	600x600	GRATED PIT	6.480	5.523
LINE 5	P1/5	900x900	GRATED INLET PIT	5.850	5.120		P4/19	600x600	GRATED PIT	6.480	5.458
	P2/5	900x900	GRATED INLET PIT	6.100	5.100	LINE 20	P1/20	600x600	GRATED PIT	6.200	5.660
LINE 6	P1/6	600x600	GRATED PIT	6.300	5.868		P2/20	600x600	JUNCTION PIT	6.350	5.490
	P2/6	900x900	GRATED PIT	6.320	5.635		P3/20	600x600	JUNCTION PIT	6.450	5.280
LINE 7	P1/7	600x600	GRATED PIT	6.600	6.150		P4/20	600x600	GRATED PIT	6.120	4.687 *
	P2/7	600x600	GRATED PIT	6.600	6.003	LINE 21	P1/21	600x600	GRATED PIT	6.200	5.400
	P3/7	900x900	GRATED PIT	6.500	5.170		P1/22	600x600	GRATED PIT	6.200	5.572
	P4/7	900x900	GRATED PIT	6.500	5.170	LINE 22	P1/23	600x600	GRATED PIT	6.200	5.663
LINE 8	P1/8	600x600	GRATED PIT	6.600	6.300		P1/24	600x600	GRATED PIT	6.710	5.949
	P2/8	600x600	GRATED PIT	6.550	6.140	LINE 23	P1/25	600x600	GRATED PIT	6.710	6.023
	P3/8	900x900	GRATED PIT	6.500	5.170		P1/26	600x600	GRATED PIT	6.710	6.231
	P4/8	900x900	GRATED PIT	6.500	5.170		P1/27	600x600	GRATED PIT	6.710	6.251
	P5/8	600x600	GRATED PIT	6.430	6.240	LINE 24	P1/28	600x600	GRATED PIT	6.480	6.290
LINE 9	P1/9	600x600	GRATED PIT	6.600	6.150		P2/28	600x600	GRATED PIT	6.480	6.170
	P2/9	600x600	GRATED PIT	6.600	6.003		P3/28	600x600	GRATED PIT	6.600	6.120
	P3/9	900x900	GRATED PIT	6.500	5.170		P4/28	600x600	GRATED PIT	6.780	6.090
	P4/9	900x900	GRATED PIT	6.500	5.170	LINE 25	P1/29	600x600	GRATED PIT	6.500	6.097
LINE 10	P1/10	600x600	GRATED PIT	6.600	6.150		P1/30	600x600	GRATED PIT	6.600	6.260
	P2/10	600x600	GRATED PIT	6.600	6.003	LINE 26	P2/30	600x600	GRATED PIT	6.600	6.155
	P3/10	900x900	GRATED PIT	6.500	5.170		P3/30	600x600	GRATED PIT	6.600	6.050
	P4/10	900x900	GRATED PIT	6.500	5.170		P1/31	600x600	GRATED PIT	6.710	6.184
	P5/10	600x600	GRATED PIT	6.550	6.340	LINE 27	GD1	300 WIDE	GRATED DRAIN	REFER TO PLAN	200 MIN DEEP
LINE 11	P1/11	600x600	GRATED PIT	6.600	6.150		GD2	300 WIDE	GRATED DRAIN	REFER TO PLAN	200 MIN DEEP
	P2/11	600x600	GRATED PIT	6.600	6.003		GD3	300 WIDE	GRATED DRAIN	REFER TO PLAN	200 MIN DEEP
	P3/11	900x900	GRATED PIT	6.500	5.170		GD4	300 WIDE	GRATED DRAIN	REFER TO PLAN	200 MIN DEEP
	P4/11	900x900	GRATED PIT	6.500	5.170	LINE 28	ExP1	Ex PIT	JUNCTION PIT	6.120	4.820 (TBC)
LINE 12	P1/12	600x600	GRATED PIT	6.600	6.150		ExP2	Ex PIT	JUNCTION PIT	6.020	4.947 (TBC)
	P2/12	600x600	GRATED PIT	6.600	6.003		ExP3	Ex LINTEL	EXISTING KIP	5.780	4.961 (TBC)
	P3/12	900x900	GRATED PIT	6.500	5.170		ExP4	Ex LINTEL	EXISTING KIP	6.050	5.000 (TBC)
	P4/12	900x900	GRATED PIT	6.500	5.170		ExP5	Ex LINTEL	EXISTING KIP	6.150	5.102 (TBC)
	P5/12	600x600	GRATED PIT	6.660	6.440	LINE 29	ExP6	Ex LINTEL	NEW JUNCTION PIT	6.260	5.070 (TBC)
LINE 13	P1/13	600x600	GRATED PIT	6.710	6.421		ExP7	Ex PIT	GRATED PIT	6.210 (GRATE)	4.760 (TBC)
	P2/13	600x600	JUNCTION PIT	6.790	6.365						
	P3/13	600x600	GRATED PIT	6.710	6.140						
	P4/13	600x600	GRATED PIT	6.950	6.100						
	P5/13	600x600	GRATED PIT	6.950	6.033						
	P6/13	600x600	GRATED PIT	6.920	6.000						
	P7/13	600x600	GRATED PIT	6.790	5.980						
	P8/13	600x600	GRATED PIT	6.770	5.950						
	P9/13	600x600	GRATED PIT	6.500	5.790						

MATCH SHEET 12

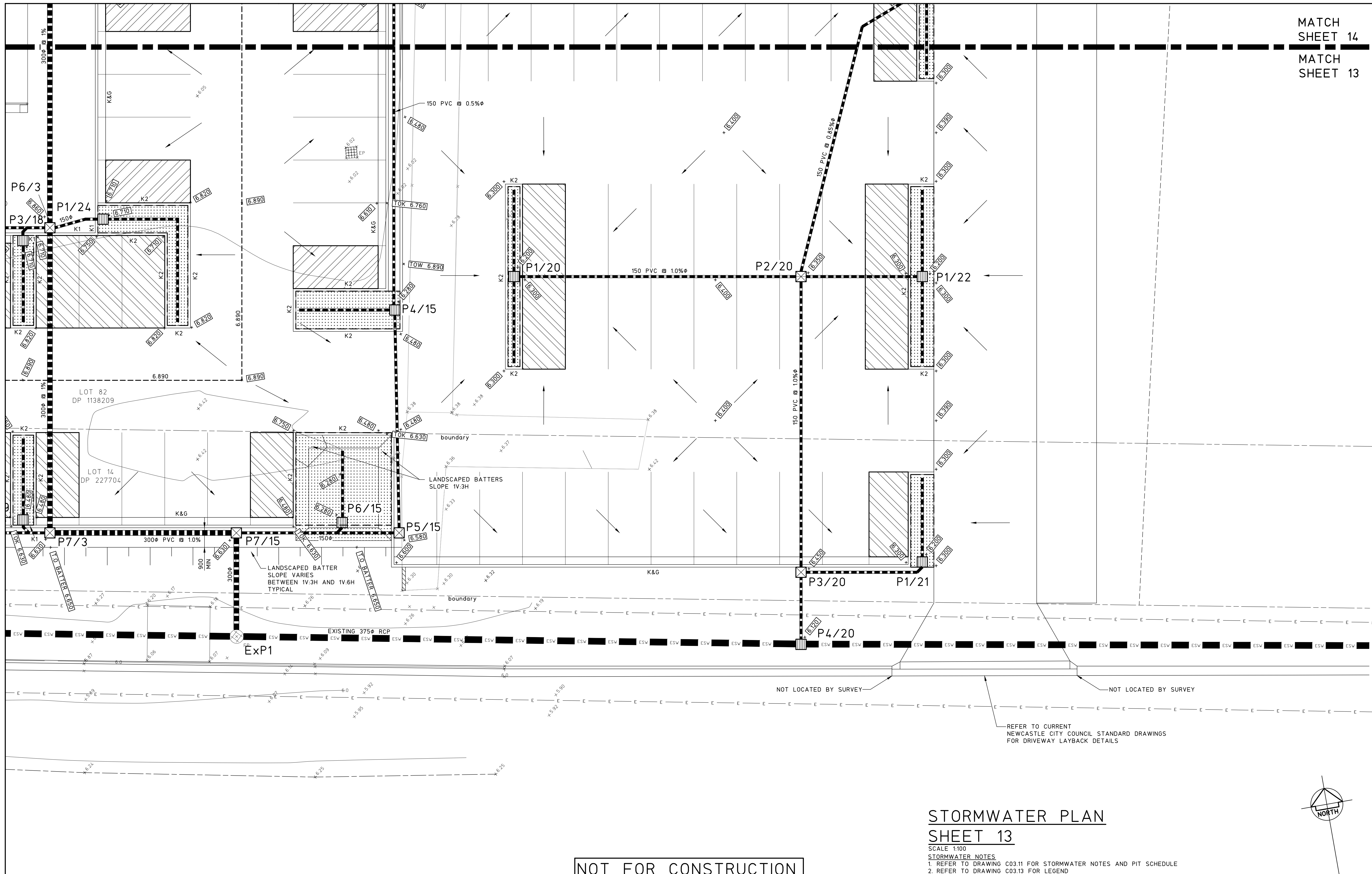
MATCH SHEET 10

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4	REVISED DEVELOPMENT APPLICATION	26.4.22						TITLE				SCALES		JOB No		DRAWING No		ISSUE	
3	REVISED DEVELOPMENT APPLICATION	7.4.22						STORMWATER PLAN				1:100		16-548-1		C03.11		4	
2	DEVELOPMENT APPLICATION	12.08.21						SHEET 12											
1	ISSUED FOR APPROVAL	09.07.21																	
0	PRELIMINARY	02.07.21																	
ISSUE	REASON FOR ISSUE	DATE		DATE OF RELEASE		RESPONSIBLE PRINCIPAL SIGNATURE		ISSUE											

MATCH
SHEET 14

MATCH
SHEET 13



STORMWATER PLAN SHEET 13

SCALE 1:100
STORMWATER NOTES
1. REFER TO DRAWING C03.11 FOR STORMWATER NOTES AND PIT SCHEDULE
2. REFER TO DRAWING C03.13 FOR LEGEND

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3 REVISED DEVELOPMENT APPLICATION			7.4.22			TITLE			SCALES			JOB No	DRAWING No	ISSUE	
2 DEVELOPMENT APPLICATION			12.08.21			STORMWATER PLAN			1:100			16-548-1	C03.12	3	
1 ISSUED FOR APPROVAL			09.07.21			SHEET 13									
0 PRELIMINARY			02.07.21												
ISSUE	REASON FOR ISSUE	DATE	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE											

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm

MATCH
SHEET 15

MATCH
SHEET 14

STORMWATER PLAN
SHEET 14

SCALE 1:100
STORMWATER NOTES
1. REFER TO DRAWING C03.11 FOR STORMWATER NOTES AND PIT SCHEDULE

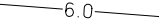
LEGEND



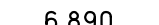
DENOTES STORMWATER PIPE



DENOTES CHARGED STORMWATER PIPE



DENOTES EXISTING CONTOUR



DENOTES DESIGN CONTOUR



DENOTES EXISTING LEVELS



DENOTES DESIGN SPOT LEVELS



DENOTES 150 HIGH KERB U.N.O.



DENOTES 150 WIDE EDGE STRIP
FLUSH WITH THE ADJACENT PAVEMENT



DENOTES 120 HIGH KERB AND GUTTER



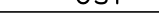
DENOTES RETAINING WALL



DENOTES LANDSCAPE RETAINING WALL



DENOTES RETAINING EDGE BEAM
TO BUILDING SLAB



DENOTES 2000 WIDE x 200 MIN DEEP
GRASS LINED SWALE, 1% MIN FALL UNO



DENOTES DIRECTION OF SURFACE FLOWS



DENOTES PERMEABLE PAVING
TO LANDSCAPE ARCHITECTS DETAILS



DENOTES 1 LITRE SLIMLINE WATER
STORAGE TANK STORING ROOF
RAINWATER TO MANUFACTURERS
SPECIFICATION. TANK SHALL BE FITTED
WITH A FIRST FLUSH SYSTEM, PUMP
TO SUPPLY TOILETS AND LAUNDRY
AND A DIVERSION SWITCH TO MAINS
SUPPLY ON TANK BEING EMPTY.
BACK FLOW PREVENTION TO MAINS
WATER SHALL BE PROVIDED. TANK TO
OVERFLOW TO STORMWATER SYSTEM.



DENOTES 100mm AG DRAIN
IN FILTER SOCK



DENOTES INFILTRATION TRENCH
25m LONG x 2m WIDE x 0.88m DEEP
REFER TO DETAILS



DENOTES INFILTRATION TRENCH
12.5m LONG x 4m WIDE x 0.88m DEEP
REFER TO DETAILS



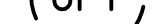
DENOTES 900x900 MANHOLE PIT LID



DENOTES OVERLAND FLOW
DIRECTION IN MAJOR STORM EVENT



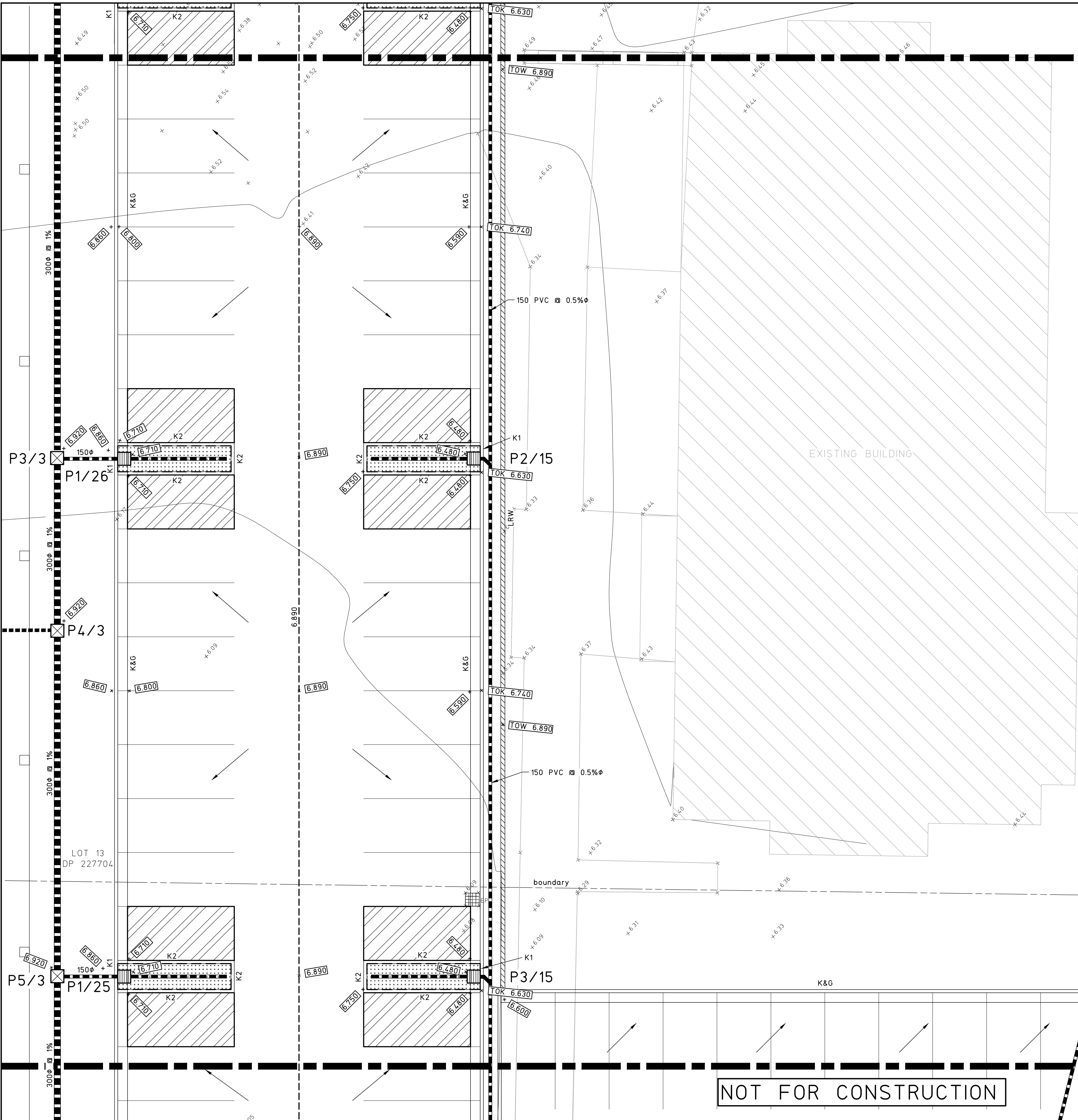
DENOTES ECOSOL GPT-4200
GROSS POLLUTANT TRAP
OR APPROVED EQUIVALENT
TO MANUFACTURERS SPECIFICATION



DENOTES ROCK LINED TRAPEZOIDAL
SPILLWAY CHANNEL,
REFER TO DETAILS



DENOTES RAIN GARDEN,
WSUD BIORETENTION SYSTEM
TO N.C.C. STANDARD DRAWING A2404



MATCH
SHEET 14

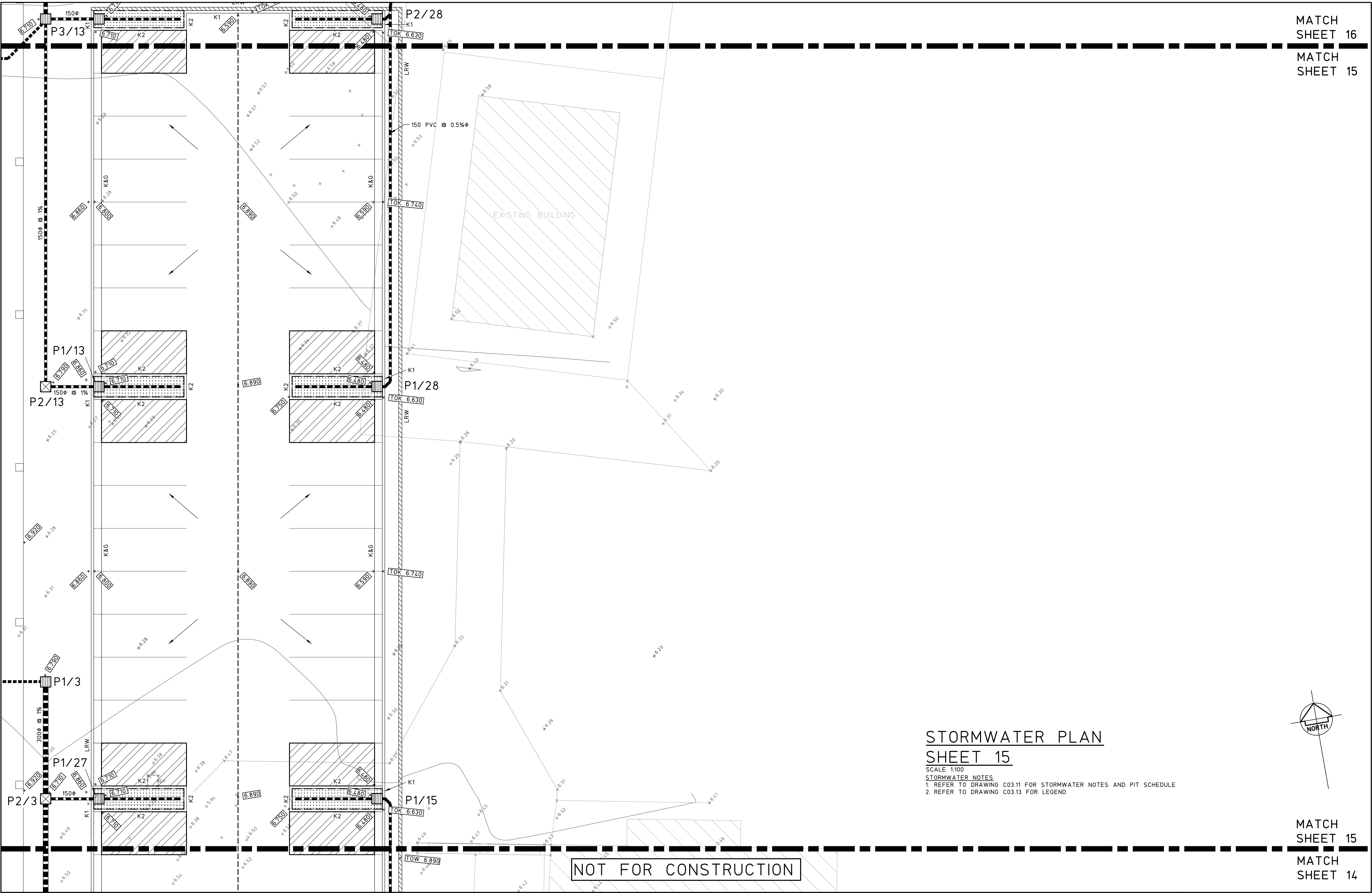
MATCH
SHEET 13

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DATE			DATE OF RELEASE			TITLE			SCALES			JOB No	DRAWING No	ISSUE	
02.07.21			02.07.21			STORMWATER PLAN SHEET 14			1:100			16-548-1	C03.13	3	
REASON FOR ISSUE			RESPONSIBLE PRINCIPAL SIGNATURE												
3 REVISED DEVELOPMENT APPLICATION															
2 DEVELOPMENT APPLICATION															
1 ISSUED FOR APPROVAL															
0 PRELIMINARY															



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A.C.N. 098 542 575

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm

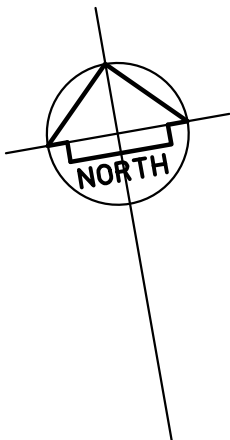


MATCH
SHEET 16

MATCH
SHEET 15

STORMWATER PLAN
SHEET 15

SCALE 1:100
STORMWATER NOTES
1. REFER TO DRAWING C03.11 FOR STORMWATER NOTES AND PIT SCHEDULE
2. REFER TO DRAWING C03.13 FOR LEGEND



MATCH
SHEET 15

MATCH
SHEET 14

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1		REVISED DEVELOPMENT APPLICATION		7.4.22				TITLE				SCALES		JOB No		DRAWING No		ISSUE	
0		DEVELOPMENT APPLICATION		12.08.21				STORMWATER PLAN				1:100		16-548-1		C03.14		1	
ISSUE		REASON FOR ISSUE		DATE		DATE OF RELEASE		RESPONSIBLE PRINCIPAL SIGNATURE											

MATCH SHEET 10

MATCH SHEET 8

P8/13

P7/13

P6/13

P1/29

P5/13

HORSE WALKER B1
FFL 7.000

P4/28

P4/13

P3/28

P1/31

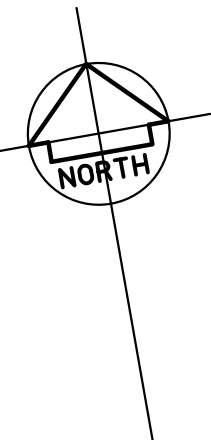
P3/13

P2/28

NOT FOR CONSTRUCTION

STORMWATER PLAN
SHEET 16

SCALE 1:100
STORMWATER NOTES
1. REFER TO DRAWING C03.11 FOR STORMWATER NOTES AND PIT SCHEDULE
2. REFER TO DRAWING C03.13 FOR LEGEND



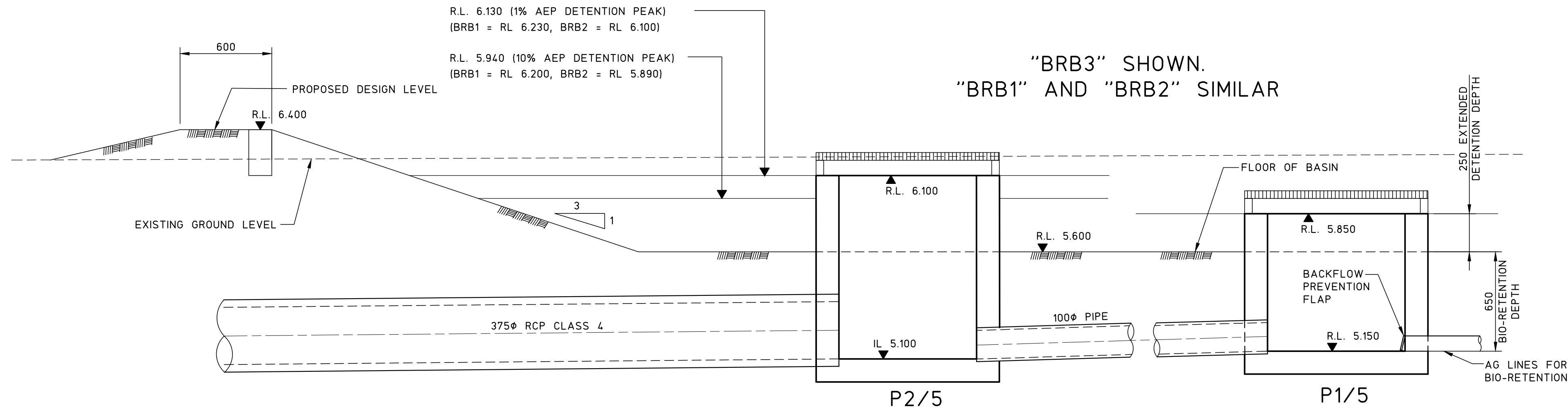
MATCH
SHEET 16

MATCH
SHEET 15

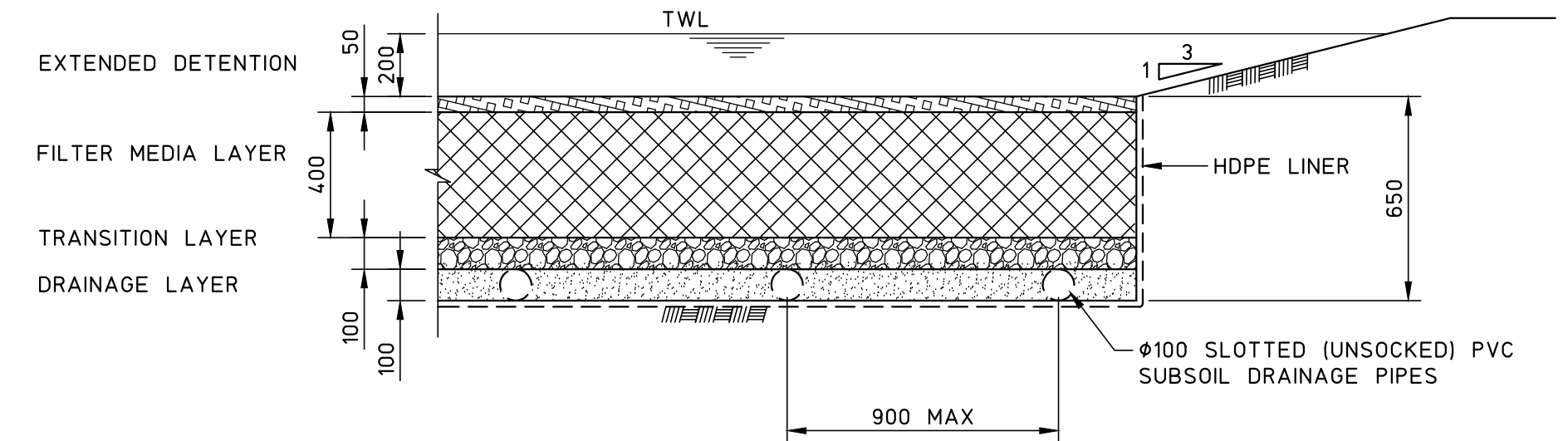
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ISSUE			REASON FOR ISSUE			DATE			DATE OF RELEASE			RESPONSIBLE PRINCIPAL SIGNATURE			ISSUE			1:100		16-548-1		C03.15		0	

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm

“BRB3” SHOWN.
“BRB1” AND “BRB2” SIMILAR



NOTE
PROVIDE COMPACTED FILL WHERE
REQUIRED TO UNDERSIDE OF
BIO-RETENTION BASIN



MULCH LAYER:

- WASHED AGGREGATE 10-20 mm
- MIN 50mm THICK

FILTER MEDIA LAYER:

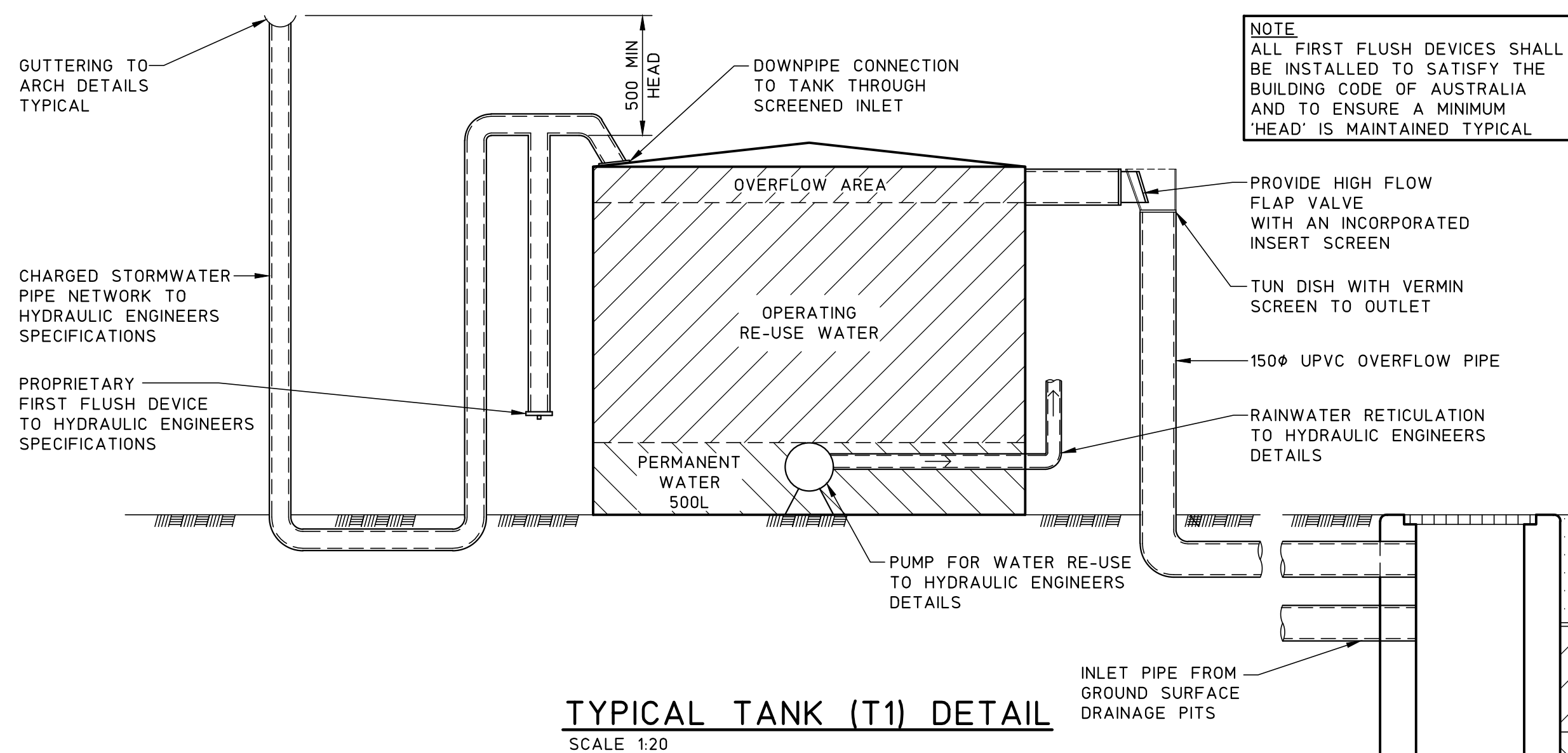
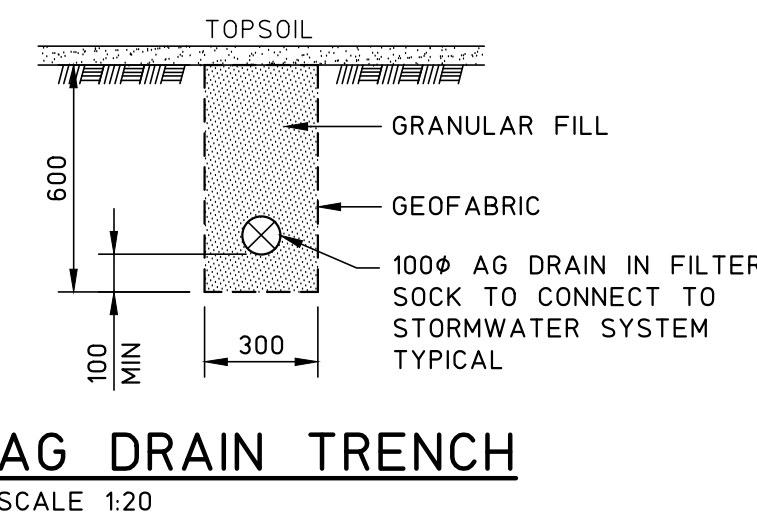
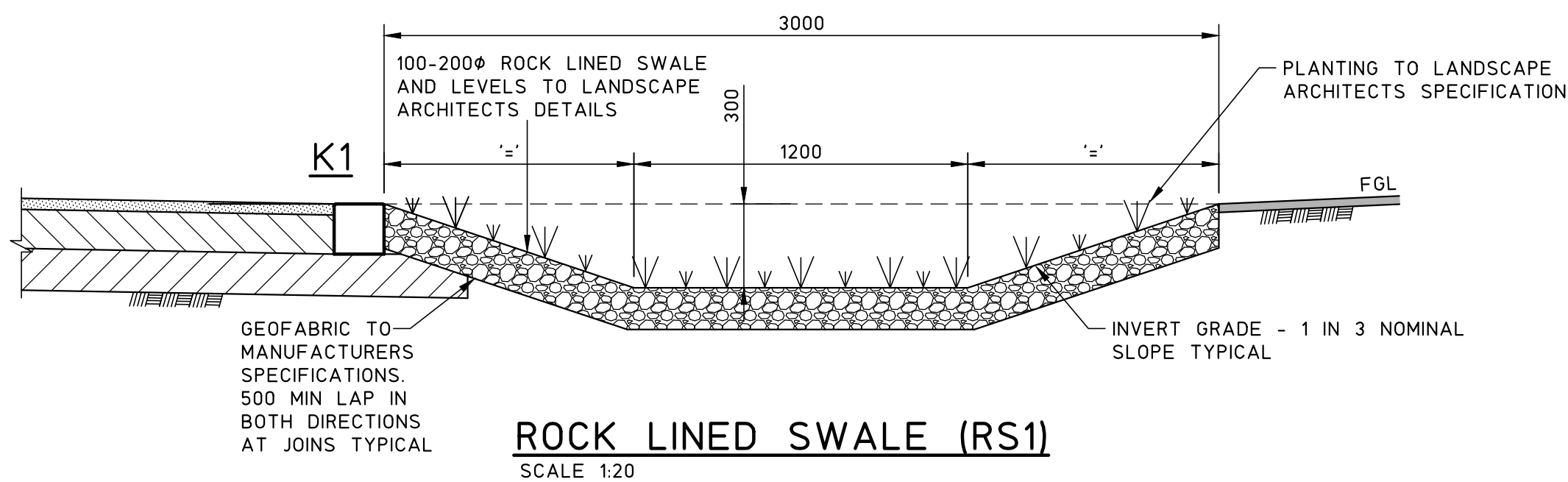
- MIN 450mm THICK
- BENEDICTS 'BIO-RETENTION FILTER MEDIA (M165)' OR APPROVED EQUIVALENT WITH MINIMUM REQUIREMENTS
 - SANDY LOAM MIX
 - SATURATED HYDRAULIC CONDUCTIVITY 100mm/HR - 300mm/HR
 - TOTAL CLAYAND SILT CONTENT <3%
 - ORGANIC CONTENT <5%

TRANSITION LAYER SPECIFICATIONS:

- MIN 100mm THICK
- BENEDICTS 'WASHED GLASS-SAND (GS MEDIUM)' OR APPROVED EQUIVALENT WITH MINIMUM REQUIREMENTS AS FOLLOWS:
 - COARSE WASHED RIVER SAND CONTAINING LITTLE OR NO FINES OR RECYCLED CRUSHED GLASS EQUIVALENT

DRAINAGE LAYER SPECIFICATIONS:

- MIN 150mm THICK
- BENEDICTS 'NO FINES DRAINAGE GRAVEL (5mm GRADE)' OR APPROVED EQUIVALENT WITH MINIMUM PRODUCT REQUIREMENTS AS FOLLOWS:
 - CLEAN GRAVEL 5mm



INLET PIPE FROM
GROUND SURFACE
DRAINAGE PITS

TYPICAL INFILTRATION TRENCH DETAIL
SCALE 1:20

TANK T1

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1	REVISED DEVELOPMENT APPLICATION	26.4.22	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE	ISSUE	TITLE			SCALES			JOB No	DRAWING No	ISSUE	
0	DEVELOPMENT APPLICATION	7.4.22				STORMWATER DETAILS			1:20			16-548-1	C03.50	1	

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm