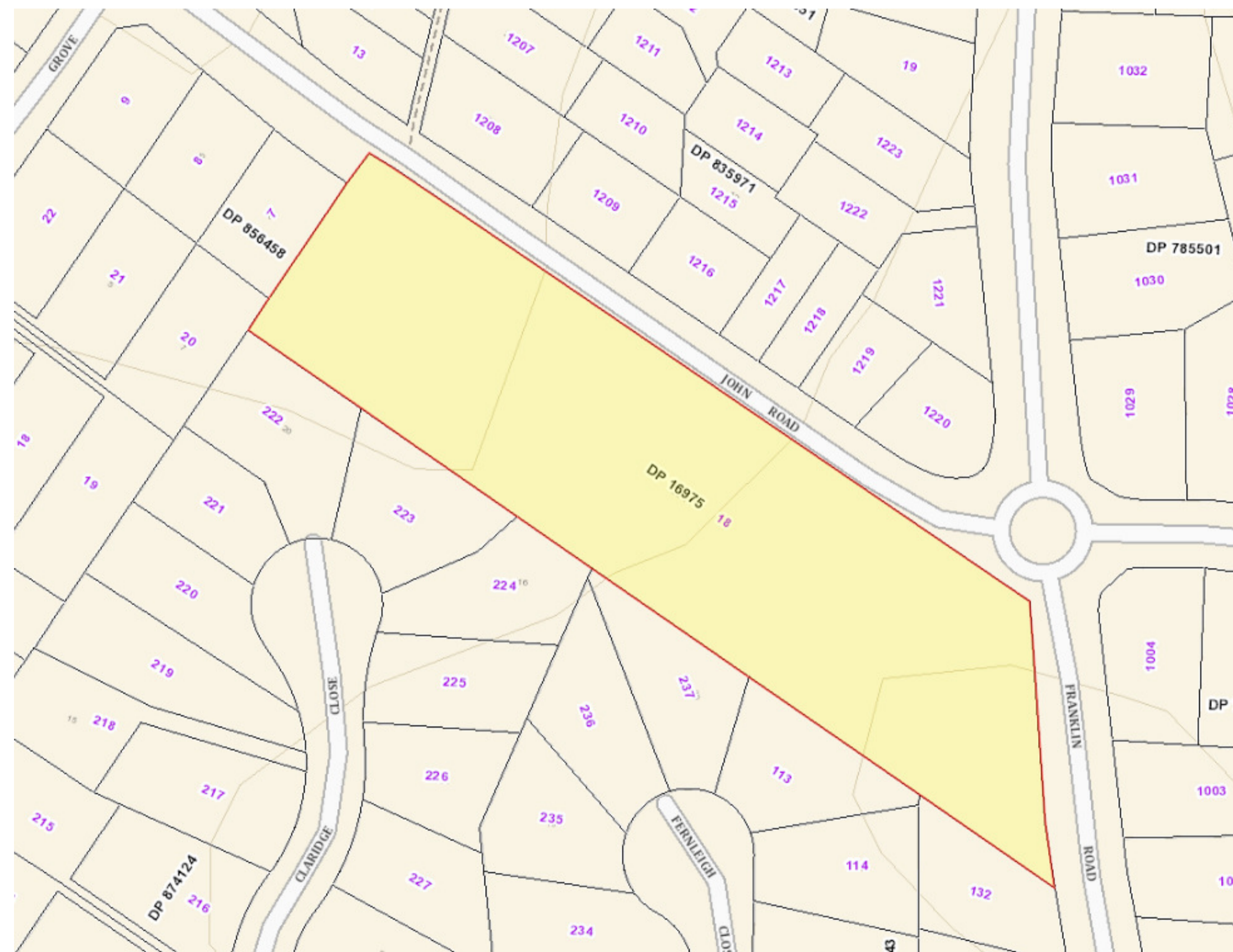


CIVIL WORKS PLAN FOR APPROVED RESIDENTIAL SUBDIVISION D.A. 1146/2020/A 90-92 FRANKLIN ROAD CHERRYBROOK NSW 2126

DWG. No:	DRAWING TITLE	REV.
1	COVER SHEET & GENERAL NOTES	C
2	GENERAL ARRANGEMENT PLAN	D
3	ROAD LONGITUDINAL SECTION PLAN	B
4	ROAD CROSS SECTIONS PLAN	B
5	ROAD CROSS SECTIONS PLAN	B
6	CUT AND FILL PLAN	B
7	ISLAND DESIGN, SIGNS & LINE MARKING PLAN	F
8	PAVEMENT PLAN	F
9	SITE WORKS & DRAINAGE PLAN	C
10	DRAINAGE LONGITUDINAL SECTION PLAN	C
11	STORMWATER DESIGN CALCULATION	C
12	STORMWATER DESIGN CALCULATION	C
13	CATCHMENT & LINE MARKING PLAN	E
14	SITE SECTION RETAINING WALL	A
15	SITE SECTION RETAINING WALL	A
16	EROSION SEDIMENT CONTROL PLAN	A
17	RETAINING WALL LONGITUDINAL SECTION PLAN	A
18	RETAINING WALL & SHARED PATH LONGITUDINAL SECTION PLAN	B
19	TREE PROTECTION PLAN	B
20	ACCESSWAY DESIGN PLAN	A

GENERAL NOTES

- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH HORNSBY SHIRE COUNCIL'S WORKS SPECIFICATIONS AND TO THE SATISFACTION OF COUNCIL'S DEVELOPMENT ENGINEER.
- THE CONTRACTOR SHALL ARRANGE ALL RELEVANT INSPECTIONS WITH THE P.C.A. AND ENSURE THAT EACH IDENTIFIED STAGE OF WORK IS INSPECTED AS REQUIRED.
- THE CONTRACTOR SHALL LOCATE ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION & MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO LOCATE OR ADJUST IF NECESSARY.
- THE CONTRACTOR SHALL NOT ENTER UPON NOR DO ANY WORK WITHIN ADJOINING LAND WITHOUT THE PERMISSION OF COUNCIL'S DEVELOPMENT ENGINEER AND THE PERMISSION OF THE RELEVANT PROPERTY OWNERS.
- ALL NEW WORKS SHALL MAKE SMOOTH CONNECTION TO EXISTING CONDITIONS.
- ALL PIPES SHALL BE ON A 1% MINIMUM GRADE U.N.O. & HAVE MINIMUM 300mm COVER.
- THE CONTRACTOR SHALL MAINTAIN SERVICES & ALL WEATHER ACCESS AT ALL TIMES TO ADJOINING PROPERTIES.
- CONSTRUCTION OF ALL DRAINAGE WORKS IS TO COMMENCE FROM THE LOWEST POINT.
- SITE WORKS SHALL BE RESTRICTED TO BETWEEN 7AM - 5PM MONDAY TO SATURDAY. NO WORK IS TO BE UNDERTAKEN ON SUNDAY OR PUBLIC HOLIDAYS.
- ANY WASTE MATERIALS GENERATED ON-SITE DURING CIVIL WORKS ARE TO BE STOCKPILED, STORED IN AN APPROPRIATE CONTAINER & DEPOSITED IN AN APPROVED LANDFILL.
- ALL WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH AUS-SPEC 1 DEVELOPMENT SPECIFICATIONS SERIES, AND HORNSBY SHIRE COUNCIL'S DESIGN SPECIFICATIONS.
- CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH PRIOR TO COMMENCEMENT OF WORKS ON-SITE WITH SEARCHES & DIAGRAMS TO BE KEPT ON-SITE AT ALL TIMES.
- ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND OR APPROVED GRANULAR MATERIAL & COMPACTED TO MINIMUM 98% STANDARD DENSITY.
- CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ON-SITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
- TRENCHES MUST BE KEPT CLEAR OF WATER AT ALL TIMES AND SHORED WHERE NECESSARY TO PREVENT COLLAPSE. SUITABLE SAFETY BARRIERS SHALL BE PROVIDED AROUND ALL EXCAVATIONS.
- TRENCH WIDTH SHALL BE 300mm WIDER THAN EXTERNAL PIPE DIMENSIONS U.N.O.
- TRENCH & PIT EXCAVATIONS DEEPER THAN 1200mm SHALL BE EITHER SUPPORTED WITH SHORING SYSTEMS, BATTERED WITH TEMPORARY BATTERS OR BENCHED IN ACCORDANCE WITH WORK COVER REQUIREMENTS.
- STORMWATER PITS & MANHOLES TO BE CONSTRUCTED AS DETAILED ON THE DRAWINGS & IN ACCORDANCE WITH THE PIT & PIPE SCHEDULE.
- CONTRACTOR TO PROVIDE CONCRETE BENCHING AT THE BOTTOM OF STORMWATER PITS TO CHANNEL FLOWS FROM EACH INLET TO THE OUTLET PIPE INVERT.
- CONTRACTOR TO FINISH ALL INLET & OUTLET PIPES FLUSH WITH PIT WALLS
- TRAFFIC CONTROL TO BE ESTABLISHED TO WORK COVER STANDARDS AT ALL TIMES WHERE CONSTRUCTION IS ON A PUBLIC ROAD.
- PUBLIC RESERVE TO BE KEPT IN A CLEAN, TIDY & SAFE CONDITION DURING CONSTRUCTION, NO BUILDING MATERIALS, WASTE, MACHINERY OR RELATED MATTER IS TO BE STORED ON THE ROAD OR FOOTPATH.
- ONSITE TOILET FACILITIES TO BE PROVIDED AS PER THE DEVELOPMENT CONSENT



LOCALITY PLAN (N.T.S.)

NOTE - TRAFFIC CONTROL TO BE ESTABLISHED TO WORK COVER STANDARDS AT ALL TIMES WHERE CONSTRUCTION IS ON A PUBLIC ROAD

PROJECT ARBORIST :
JACKI BROWN
NEWLEAF ARBORICULTURE
PH: 1300 157 210
EMAIL: INFO@NEWLEAFTREES.COM.AU



EXTREME CARE SHALL BE TAKEN WHEN DOING WORK NEAR EXISTING PIT STRUCTURES & UNDERGROUND CABLES. CONTRACTORS TO CONTACT UTILITY AUTHORITIES TO OBTAIN EXACT LOCATION & DEPTH OF ALL UNDERGROUND PIPES & CABLES PRIOR TO ANY EXCAVATION ON-SITE

TREE PROTECTION CERTIFICATION TO BE PROVIDED TO P.C.A. PRIOR TO COMMENCEMENT OF WORKS. TREE INSPECTIONS TO BE CARRIED OUT DURING SITE WORKS & AT PROJECT COMPLETION

DEMOLITION WORKS ONSITE TO BE UNDERTAKEN BY A QUALIFIED CONTRACTOR IN ACCORDANCE WITH AUSTRALIAN STANDARD 2601 - 2001. "THE DEMOLITION OF STRUCTURES" SEE CONDITIONS OF CONSENT

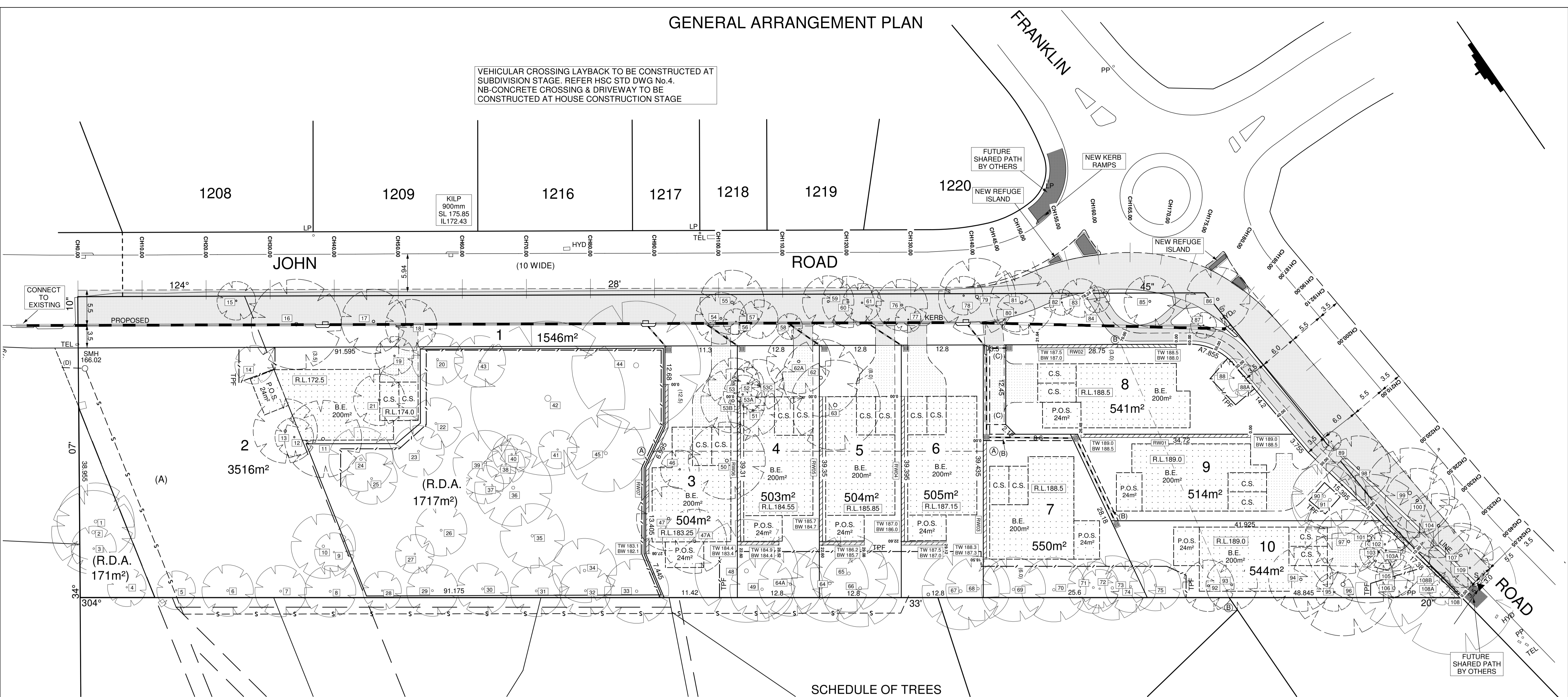
Notes:-

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- Tree positions and sizes shown are estimated.
- This drawing is subject to copyright. It must not be produced in whole or part without prior written consent of P. S. GRAHAM & ASSOCIATES. PTY. LTD

REV	DATE	DESCRIPTION	REV. BY
C	30-05-24	ARBORIST DETAILS ADDED	S.T.
B	05-03-24	DETAILS UPDATED	S.T.
A	12-12-23	ISSUE FOR COUNCIL SUBMISSION	S.T.

PLAN OF PROPOSED CIVIL WORKS FOR APPROVED DA/1146/2020/A FOR LOT 18 IN D.P. 16975 90-92 FRANKLIN ROAD - CHERRYBROOK
LGA : HORNSBY
DATUM: A.H.D.
DATE: 04-12-2023
CAD: S15696 SWC
NOTE: DIMENSIONS AND AREAS ARE SUBJECT TO FINAL SURVEY

GENERAL ARRANGEMENT PLAN



VEHICULAR CROSSING LAYBACK TO BE CONSTRUCTED AT SUBDIVISION STAGE. REFER HSC STD DWG No.4. NB-CONCRETE CROSSING & DRIVEWAY TO BE CONSTRUCTED AT HOUSE CONSTRUCTION STAGE

SCHEDULE OF TREES

No.	DESCRIPTION	DIA. (M)	SPREAD (M)	HEIGHT (M)	COND.
1	FOREST RED GUM	0.81	12	26	FAIR
2	FOREST RED GUM	0.55	13	25	FAIR
3	FOREST RED GUM	0.46	7	25	FAIR
4	TURPENTINE	0.25	6	9	GOOD
5	TURPENTINE	0.4	6	10	FAIR
6	TURPENTINE	0.28	8	7	GOOD
7	TURPENTINE	0.3	8	7	FAIR
8	TURPENTINE	0.32	8	7	FAIR
9	FOREST RED GUM	0.4	6	17	FAIR
10	FOREST RED GUM	0.39	10	19	FAIR
11	FOREST RED GUM	0.63	12	18	GOOD
12	FOREST RED GUM	0.48	6	18	FAIR
13	FOREST RED GUM	0.38	10	17	FAIR
14	SYDNEY BLUE GUM	0.4	6	15	GOOD
15	FOREST RED GUM	0.5	6	25	FAIR
16	FOREST RED GUM	0.7	14	25	FAIR
17	FOREST RED GUM	0.4	10	20	FAIR
18	SYDNEY BLUE GUM	0.5	8	20	FAIR
19	SYDNEY BLUE GUM	0.47	6	18	FAIR
20	FOREST RED GUM	0.43	8	17	GOOD
21	DEAD	0.76	-	-	POOR
22	FOREST RED GUM	0.44	8	18	GOOD
23	FOREST RED GUM	0.42	8	18	GOOD
24	FOREST RED GUM	0.46	10	20	FAIR
25	FOREST RED GUM	0.43	8	18	FAIR
26	FOREST RED GUM	0.85	8	25	GOOD
27	FOREST RED GUM	0.32	6.0	16	FAIR
28	FOREST RED GUM	0.25	6	9	GOOD
29	FOREST RED GUM	0.4	8	10	GOOD
30	FOREST RED GUM	0.44	8	11	GOOD
31	TURPENTINE	0.32	8	9	GOOD
32	TURPENTINE	0.42	8	10	GOOD
33	TURPENTINE	0.36	10	9	GOOD
34	FOREST RED GUM	0.43	10	23	GOOD
35	FOREST RED GUM	0.41	10	24	GOOD
36	FOREST RED GUM	0.67	12	25	GOOD
37	GREY BOX	0.18	6	7	FAIR
38	FOREST RED GUM	0.36	6	26	FAIR
39	GREY BOX	0.4	10	17	GOOD
40	FOREST RED GUM	0.41	6	16	FAIR
41	FOREST RED GUM	0.39	6	17	FAIR
42	FOREST RED GUM	1.3	24	26	FAIR
43	FOREST RED GUM	0.4	8	17	GOOD
44	FOREST RED GUM	0.72	20	23	FAIR
45	FOREST RED GUM	0.78	12	28	POOR
46	FOREST RED GUM	0.37	6	16	GOOD
47	FOREST RED GUM	0.52	10	22	GOOD
47A	CLARET ASH	0.24	10	10	GOOD
48	PEPPERCORN	0.33	16	16	FAIR
49	PAPERBARK	0.6	10	16	FAIR
50	EVERGREEN ASH	0.5	12	11	GOOD
51	FOREST RED GUM	0.5	8	19	GOOD
52	FOREST RED GUM	0.33	5	17	FAIR
53	FOREST RED GUM	0.4	8	18	FAIR
53A	FOREST RED GUM	0.3	6	18	FAIR
53B	COOK PINE	0.23	10	13	GOOD
53C	PAPERBARK	0.28	8	16	GOOD
54	TALLOWWOOD	0.3	8	20	FAIR
55	SPOTTED GUM	0.4	10	20	FAIR
56	TALLOWWOOD	0.3	4	20	FAIR
57	TALLOWWOOD	0.4	6	20	FAIR
58	RED IRONBARK	0.3	4	15	FAIR
59	TALLOWWOOD	0.4	8	20	FAIR
60	TALLOWWOOD	0.3	8	15	FAIR
61	FOREST RED GUM	0.4	6	20	FAIR
62	LEMON SCENTED GUM	0.59	12	23	GOOD
62A	JACARANDA	0.18	10	9	GOOD
63	LEMON SCENTED GUM	0.79	14	25	FAIR
64	FOREST RED GUM	0.6	12	21	GOOD
64A	SOUR GUM	0.19	10	7	FAIR
65	GOLDEN ELM	0.3	12	7	FAIR
66	TALLOWWOOD	0.69	12	20	GOOD
67	PAPERBARK	0.55	12	18	GOOD
68	PAPERBARK	0.45	10	16	GOOD
69	PAPERBARK	0.48	10	18	GOOD
70	PAPERBARK	0.45	10	17	GOOD
71	PAPERBARK	0.45	8	17	GOOD
72	PAPERBARK	0.23	6	13	GOOD
73	PAPERBARK	0.6	10	17	GOOD
74	PAPERBARK	0.3	8	14	FAIR
75	PAPERBARK	0.37	8	15	GOOD
76	WHITE SALLY WATTLE	0.4	8	20	FAIR
77	BLACKBUTT	0.3	4	20	FAIR
78	SPOTTED GUM	0.3	6	15	FAIR
79	SYDNEY BLUE GUM	0.5	12	20	FAIR
80	WHITE GUM	0.3	6	15	FAIR
81	FLOODED GUM	0.5	10	25	FAIR
82	WILLOW BOTTLEBRUSH	0.3	4	13	FAIR
83	SPOTTED GUM	0.4	6	15	FAIR
84	WILLOW BOTTLEBRUSH	0.3	4	7	FAIR
85	FOREST RED GUM	0.5	8	20	FAIR
86	FOREST RED GUM	0.7	10	30	FAIR
87	CYPRESS	0.5	4	15	FAIR
88	CYPRESS	0.38	6	16	GOOD
88A	GOLDEN ELM	0.18	5	7	FAIR
89	RED IRONBARK	0.3	3	12	FAIR
90	LEMON SCENTED GUM	0.44	10	20	FAIR
91	LEMON SCENTED GUM	0.25	12	16	FAIR
92	PAPERBARK	0.32	8	16	GOOD
93	PAPERBARK	0.41	8	15	FAIR
94	FIDDLEWOOD	0.26	10	14	GOOD
95	TURPENTINE	0.4	6	14	FAIR
96	SYDNEY BLUE GUM	0.75	16	18	POOR
97	EVERGREEN ASH	0.3	10	9	FAIR
98	TALLOWWOOD	0.4	10	15	FAIR
99	YELLOW BLOODWOOD	0.8	14	25	FAIR
100	YELLOW BLOODWOOD	0.6	10	25	FAIR
101	FOREST RED GUM	0.65	20	28	GOOD
102	TURPENTINE	0.2	6	10	GOOD
103	LEMON SCENTED GUM	0.19	6	15	FAIR
103A	LEMON SCENTED GUM	0.22	6	17	FAIR
104	YELLOW BLOODWOOD	0.5	10	25	FAIR
105	LEMON SCENTED GUM	0.28	6	25	FAIR
106	GREY IRONBARK	0.35	12	17	GOOD
107	YELLOW BLOODWOOD	0.5	10	25	FAIR
108	FLOODED GUM	0.88	20	30	GOOD
108A	LEMON SCENTED GUM	0.18	4	16	FAIR
108B	LEMON SCENTED GUM	0.16	4	17	FAIR
109	WHITE SALLY WATTLE	0.3	6	10	FAIR

TREES APPROVED FOR REMOVAL:
11,12,13,15,16,17,18,19,21,46,47,47A,50,51,52,53,53A,53B,53C,54,55,56,57,58,59,60,61,62,62A,63,76,77,78,79,80,81,82,83,84,84A,85,86,89,92,93,94,95,96,97,98,99,100,101,102,103,103A,104,105,107,109

TREES TO BE RETAINED:
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 48, 49, 64, 64A, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 88, 88A, 90, 91, 106, 108, 108A & 108B

PROPOSED 2.5m SHARED USE PATHWAY TO BE CONSTRUCTED IN ACCORDANCE WITH HORNSBY COUNCIL DEVELOPMENT DESIGN SPECIFICATION 0044 PATHWAYS AND CYCLEWAYS.

PROPOSED KERB & GUTTER TO BE CONSTRUCTED IN ACCORDANCE WITH HORNSBY COUNCIL DEVELOPMENT DESIGN SPECIFICATION 1122 KERB & CHANNEL(GUTTER) REPLACEMENT

TPF DENOTES TREE PROTECTION FENCE

RDA TO BE FENCED OFF WITH TEMPORARY SITE FENCING TO EXCLUDE ENTRY

R.D.A. DENOTES PROPOSED RESTRICTED DEVELOPMENT AREA

TOTAL SITE AREA - 9228m²

(A) EASEMENT FOR TRANSMISSION LINE 30.48 WIDE (D.P. 444349) VIDE J5360
(B) PROPOSED EASEMENT TO DRAIN WATER 1 WIDE
(C) PROPOSED RIGHT OF ACCESS & EASEMENT TO DRAIN WATER 3.5 WIDE
(D) EASEMENT TO DRAIN WATER VARIABLE WIDTH (D.P.828271)

Notes:-

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 295 - 299 PENNANT HILLS ROAD ALL CORRESPONDENCE TO web: www.psgraham.com.au
 THORNLEIGH NSW 2120 P.O. BOX 263 BEECROFT NSW 2119 email: psg@psgraham.com.au

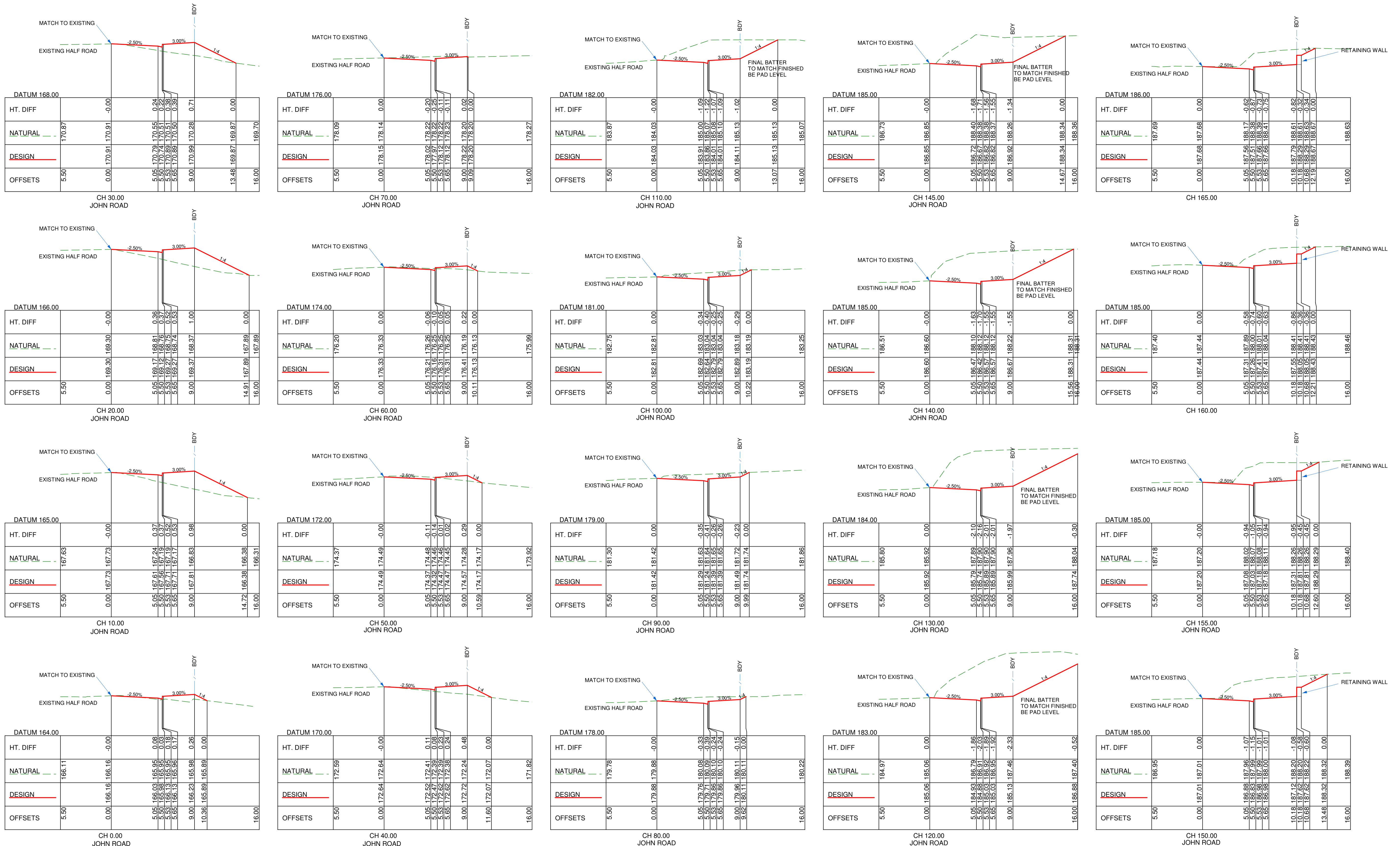
PLAN OF PROPOSED CIVIL WORKS FOR APPROVED DA/1146/2020/A FOR LOT 18 IN D.P. 16975 90-92 FRANKLIN ROAD - CHERRYBROOK

SCALE: 1:300 SHEET 2 OF 20 REV. D REF.No. S.15696

LGA : HORNSBY DATUM: A.H.D. DATE: 04-12-2023 CAD: S15696 SWC

NOTE: DIMENSIONS AND AREAS ARE SUBJECT TO FINAL SURVEY

D	09-07-24	DETAIL UPDATED	S.T.
C	30-05-24	DETAIL UPDATED	S.T.
B	28-02-24	RETAINING WALL UPDATED	S.T.
A	12-12-23	ISSUE FOR COUNCIL SUBMISSION	S.T.
REV	DATE	DESCRIPTION	REV. BY



ROAD CROSS SECTIONS PLAN

Scale Horizontal 1:200 Vertical 1:100

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 THORNLEIGH NSW 2120 P.O. BOX 263 BEECROFT NSW 2119 email: ps@psgraham.com.au

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REV	DATE	DESCRIPTION	REV. BY
B	30-05-24	DESIGN UPDATED	S.T.
A	12-12-23	ISSUE FOR COUNCIL SUBMISSION	S.T.

PLAN OF PROPOSED CIVIL WORKS FOR APPROVED
 DA/1146/2020/A FOR LOT 18 IN D.P. 16975
 90-92 FRANKLIN ROAD - CHERRYBROOK

LGA : HORNSBY
 DATUM: A.H.D.

DATE: 04-12-2023
 CAD: S15696 SWC

NOTE:
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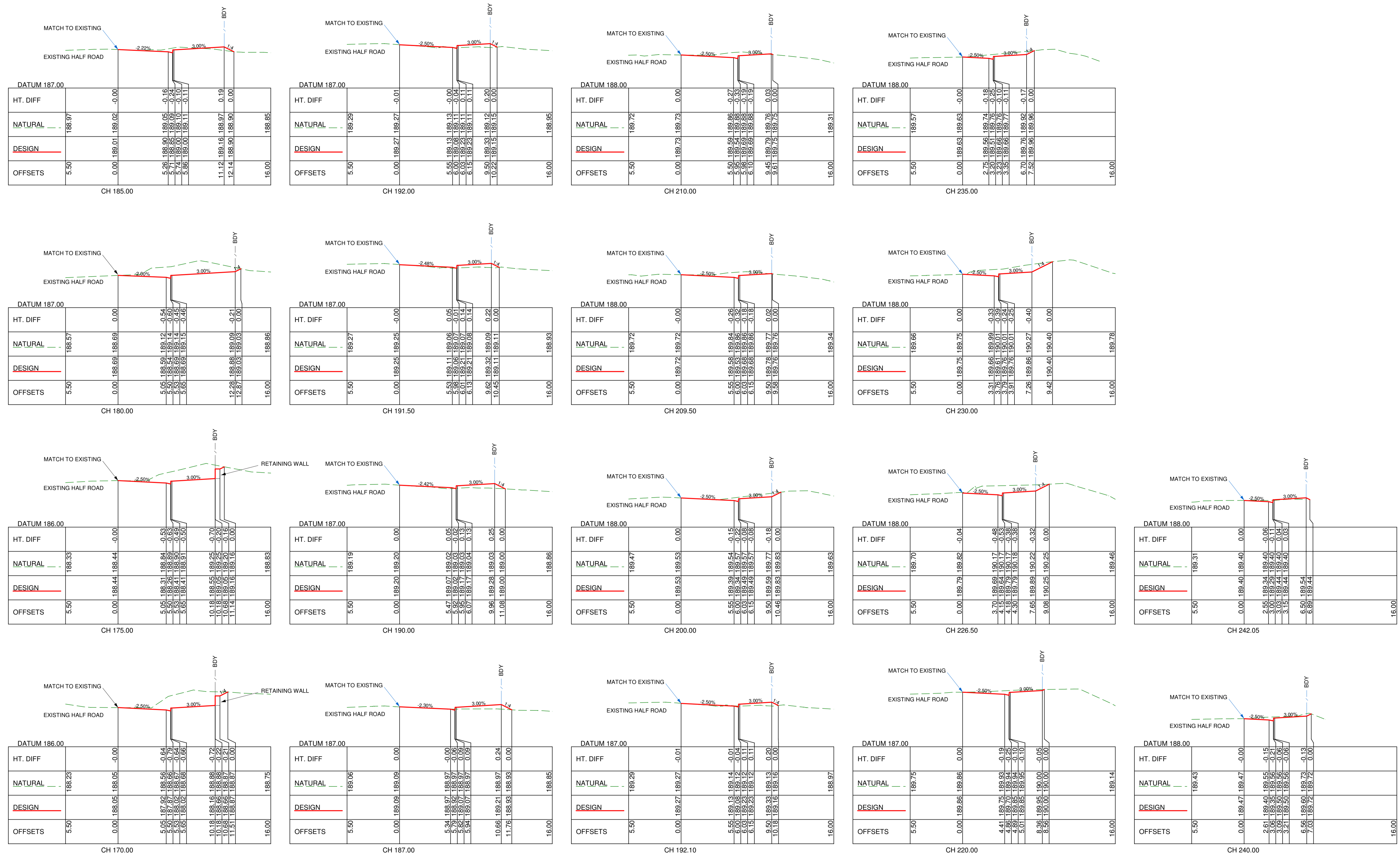
SCALE: 1:300

SHEET 4 OF 20

REF.No. S.15696

(A1)

REV. B



ROAD CROSS SECTIONS PLAN

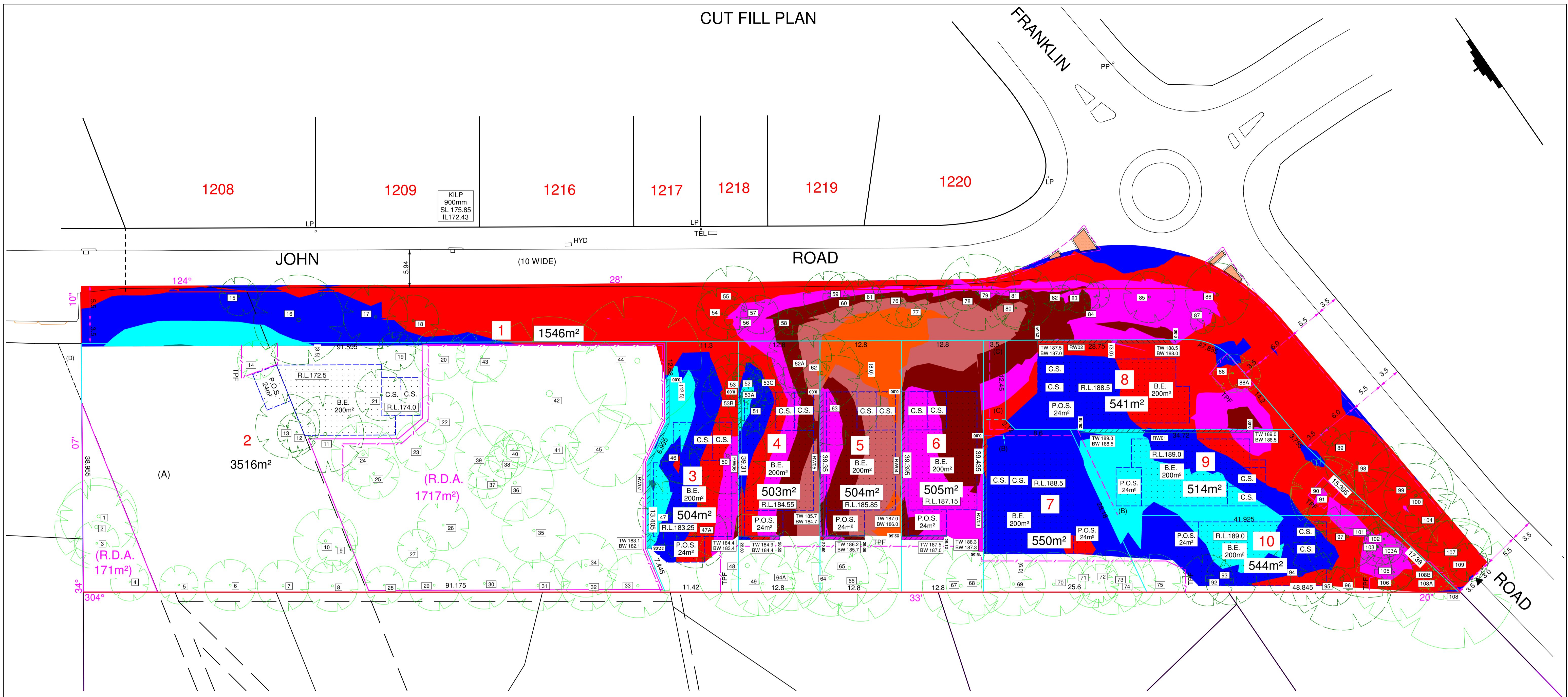
Scale Horizontal 1:100 Vertical 1:100

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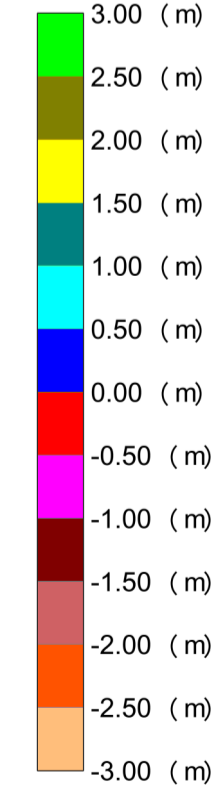
PLAN OF PROPOSED CIVIL WORKS FOR APPROVED DA/1146/2020/A FOR LOT 18 IN D.P. 16975 90-92 FRANKLIN ROAD - CHERRYBROOK				SCALE: 1:300	(A1)
LGA : HORNSBY DATUM: A.H.D.				DATE: 04-12-2023 CAD: S15696 SWC	REV. B
REV	DATE	DESCRIPTION	REV. BY	REF.No. S.15696	
B	30-05-24	DESIGN UPDATED	S.T.		
A	12-12-23	ISSUE FOR COUNCIL SUBMISSION	S.T.		

CUT FILL PLAN



TREES APPROVED FOR REMOVAL:
 11,12,13,15,16,17,18,19,21,46,47,47A,50,51,52
 53,53A,53B,53C,54,55,56,57,58,59,60,61,62,62A
 63,76,77,78,79,80,81,82,83,84,84A,85,86,89,92,93,94
 95,96,97,98,99,100,101,102,103,103A,104,105,107,109

TREES TO BE RETAINED:
 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 20, 22, 23, 24,
 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36,
 37, 38, 39, 40, 41, 42, 43, 44, 45, 48, 49, 64,
 64A, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75,
 88, 88A, 90, 91, 106, 108, 108A & 108B



TPF DENOTES TREE PROTECTION FENCE

RDA TO BE FENCED OFF WITH TEMPORARY SITE FENCING TO EXCLUDE ENTRY

R.D.A. DENOTES PROPOSED RESTRICTED DEVELOPMENT AREA

TOTAL SITE AREA - 9228m²

(A) EASEMENT FOR TRANSMISSION LINE 30.48 WIDE (D.P. 444349) VIDE J5360
 (B) PROPOSED EASEMENT TO DRAIN WATER 1 WIDE
 (C) PROPOSED RIGHT OF ACCESS & EASEMENT TO DRAIN WATER 3.5 WIDE
 (D) EASEMENT TO DRAIN WATER VARIABLE WIDTH (D.P.828271)

EARTHWORKS NOTES:

- 150mm STRIPPING OF EXISTING SURFACE OUTSIDE TREE PROTECTION ZONE / TREE PROTECTION FENCING PRIOR TO EARTHWORKS
- PAVEMENT BOXED OUT 500mm BELOW FINISHED PAVEMENT LEVEL TO SUBGRADE
- MATERIAL GENERATED FROM STORMWATER, SEWER & SERVICE TRENCHES HAVE NOT BEEN INCLUDED IN THIS QUANTITY
- EARTHWORK QUANTITIES SHOWN ARE FOR INFORMATION ONLY. TENDERERS SHALL DETERMINE THEIR OWN QUANTITIES BASED ON THEIR OWN CALCULATIONS & ASSUMPTIONS

TOTAL CUT VOLUME = 2808m³
 TOTAL CUT FOR ROAD FORMATION = 700m³
 TOTAL FILL VOLUME = 625m³
 NET VOLUME (EXPORT) = 2883m³

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REV	DATE	DESCRIPTION	REV. BY
C	30-05-24	DESIGN UPDATED	S.T.
B	12-02-24	CUT FILL UPDATED	S.T.
A	12-12-23	ISSUE FOR COUNCIL SUBMISSION	S.T.

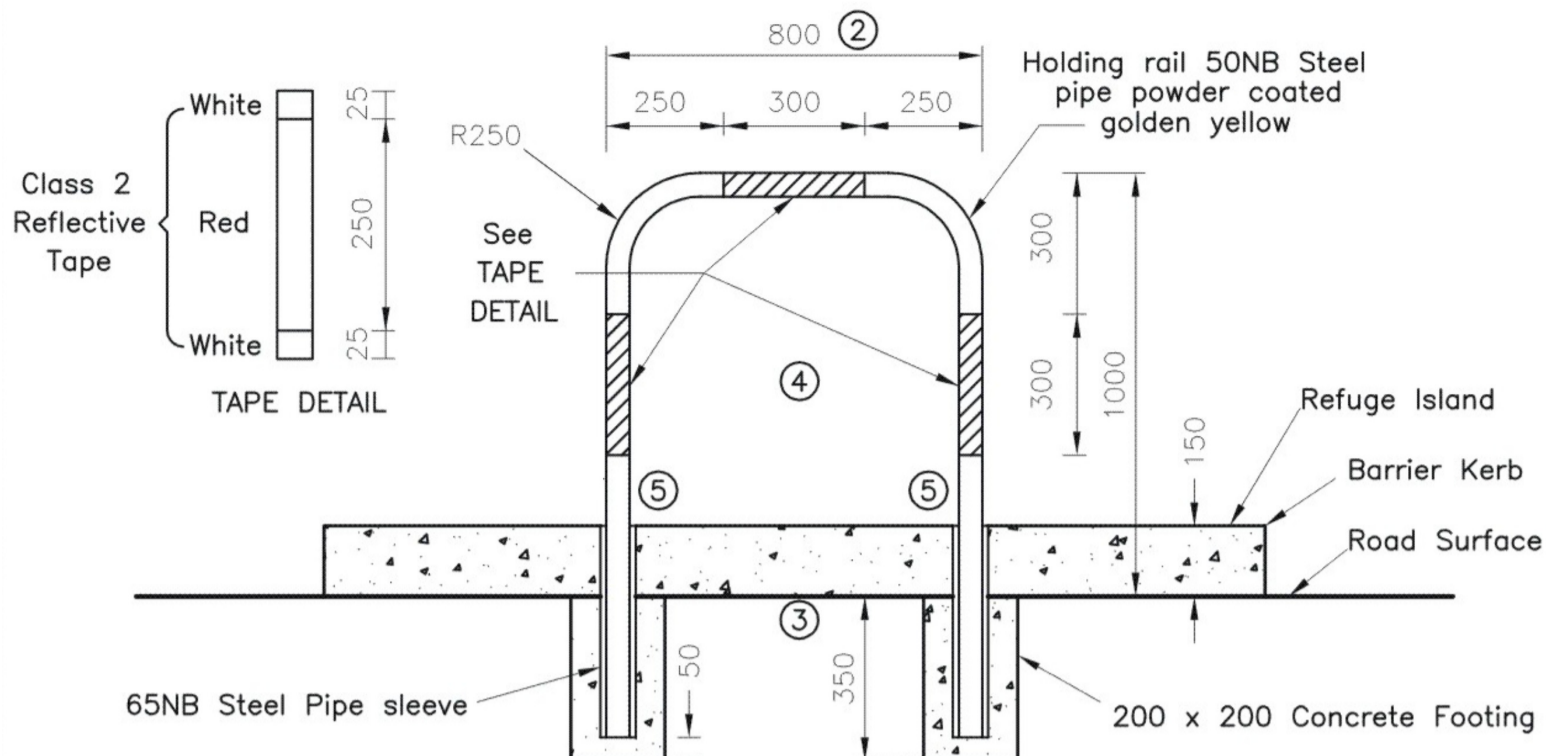
PLAN OF PROPOSED CIVIL WORKS FOR APPROVED DA/1146/2020/A FOR LOT 18 IN D.P. 16975 90-92 FRANKLIN ROAD - CHERRYBROOK

LGA : HORNSBY DATUM: A.H.D. DATE: 04-12-2023 CAD: S15696 SWC

NOTE: DIMENSIONS AND AREAS ARE SUBJECT TO FINAL SURVEY

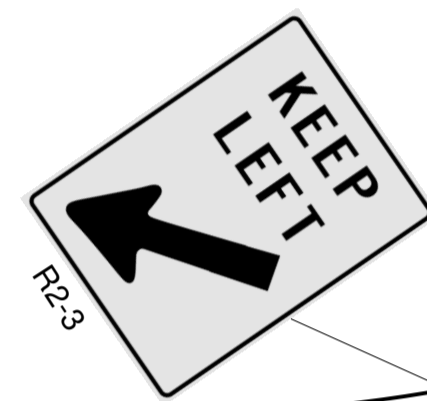
SCALE: 1:300 SHEET 6 OF 20 REF.No. S.15696

ISLAND DESIGN, SIGNS & LINE MARKING PLAN



SECTION A-A

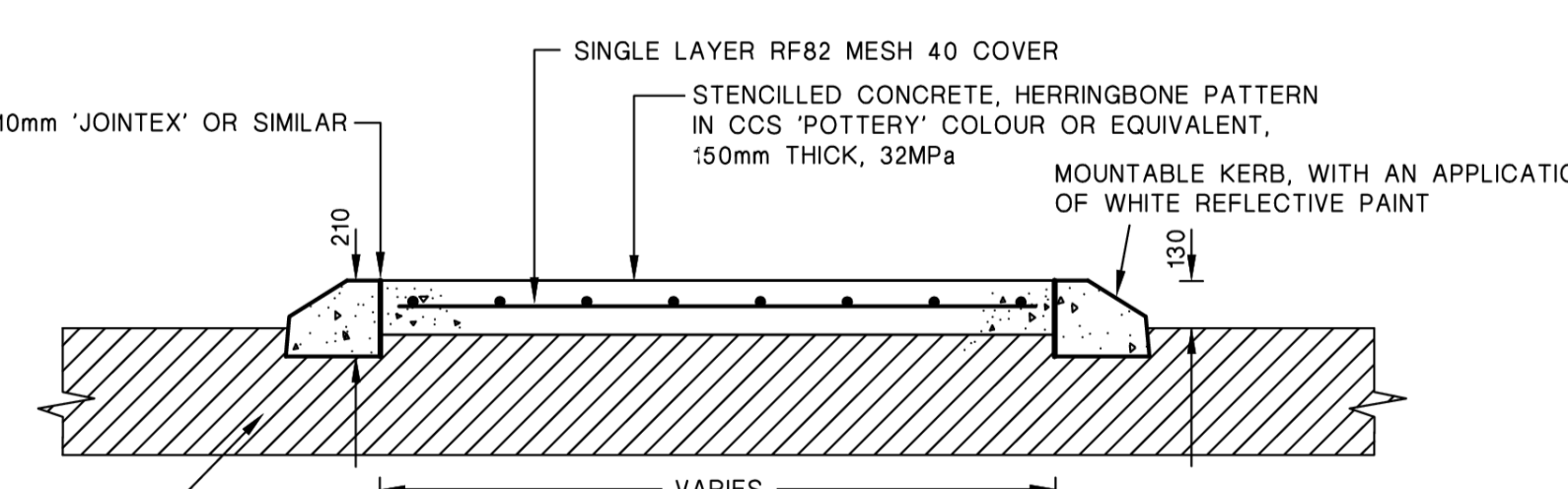
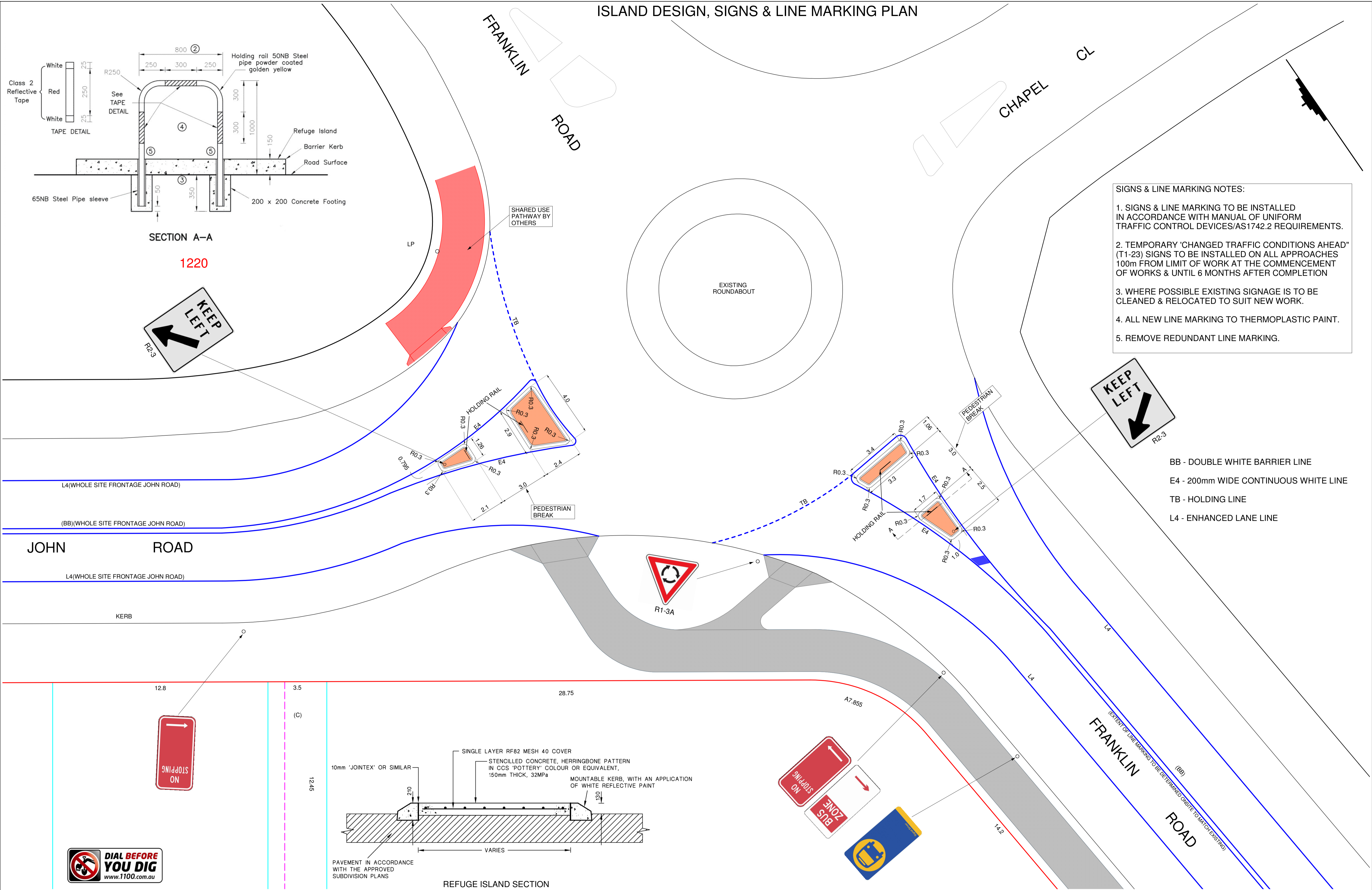
1220



- SIGNS & LINE MARKING NOTES:**
1. SIGNS & LINE MARKING TO BE INSTALLED IN ACCORDANCE WITH MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES/AS1742.2 REQUIREMENTS.
 2. TEMPORARY 'CHANGED TRAFFIC CONDITIONS AHEAD' (T1-23) SIGNS TO BE INSTALLED ON ALL APPROACHES 100m FROM LIMIT OF WORK AT THE COMMENCEMENT OF WORKS & UNTIL 6 MONTHS AFTER COMPLETION
 3. WHERE POSSIBLE EXISTING SIGNAGE IS TO BE CLEANED & RELOCATED TO SUIT NEW WORK.
 4. ALL NEW LINE MARKING TO THERMOPLASTIC PAINT.
 5. REMOVE REDUNDANT LINE MARKING.



- BB - DOUBLE WHITE BARRIER LINE
- E4 - 200mm WIDE CONTINUOUS WHITE LINE
- TB - HOLDING LINE
- L4 - ENHANCED LANE LINE



REFUGE ISLAND SECTION

- Notes:-**
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REV	DATE	DESCRIPTION	REV. BY
F	10-07-24	TRAFFIC SIGNS UPDATED	S.T.
E	10-07-24	TRAFFIC SIGNS UPDATED	S.T.
D	09-07-24	ISLAND UPDATED	S.T.
C	30-05-24	PLAN UPDATED	S.T.
B	04-04-24	TRAFFIC SIGNS ADDED	S.T.
A	12-12-23	ISSUE FOR COUNCIL SUBMISSION	S.T.

PLAN OF PROPOSED CIVIL WORKS FOR APPROVED DA/1146/2020/A FOR LOT 18 IN D.P. 16975 90-92 FRANKLIN ROAD - CHERRYBROOK

LGA : HORNSBY
DATUM: A.H.D.

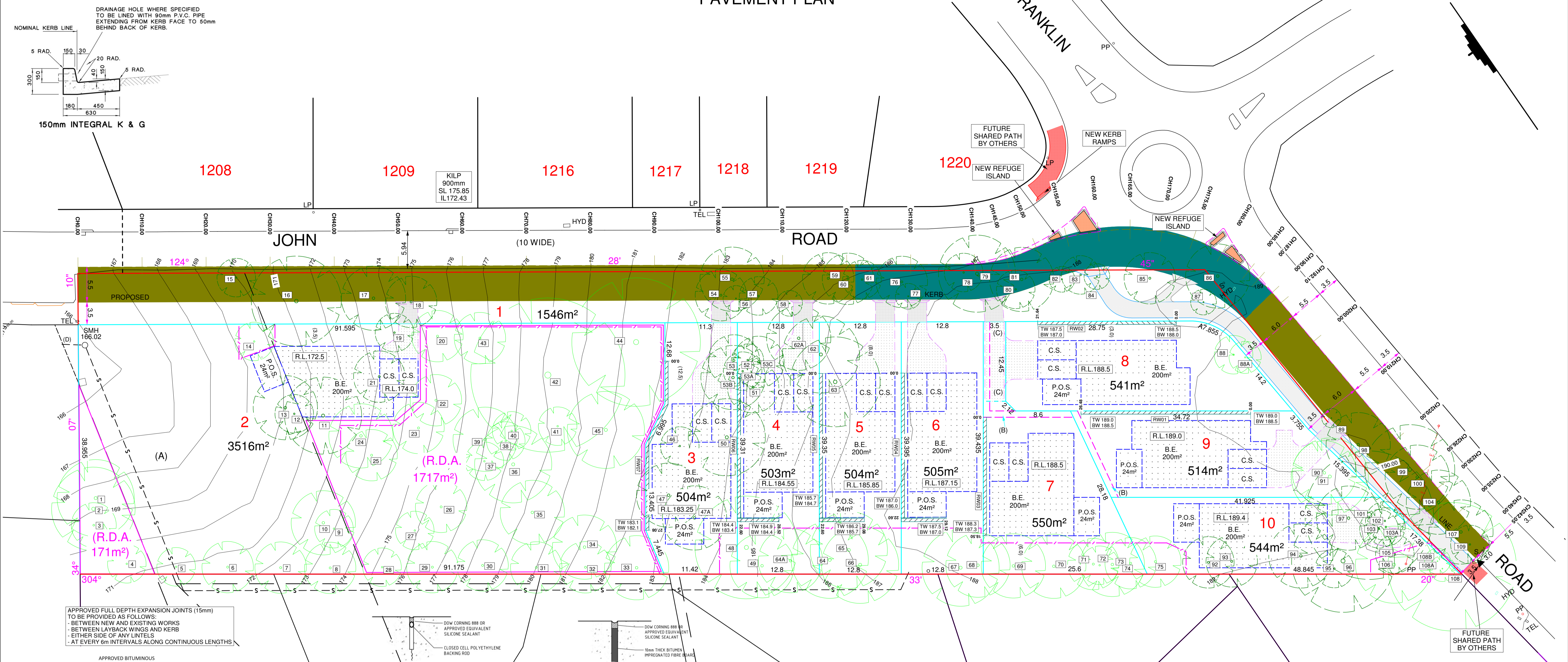
DATE: 04-12-2023
CAD: S15696 SWC

NOTE: DIMENSIONS AND AREAS ARE SUBJECT TO FINAL SURVEY

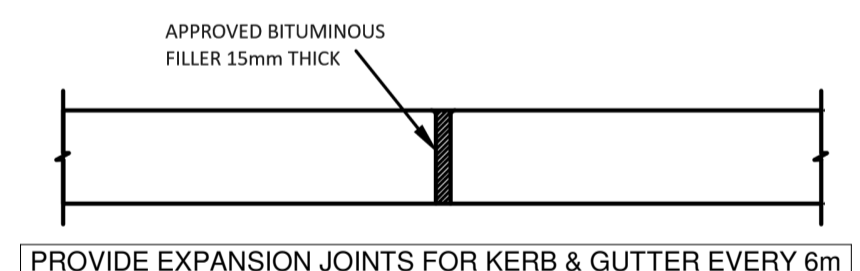
SCALE: 1:100
SHEET 7 OF 20
REF.No. S.15696



PAVEMENT PLAN

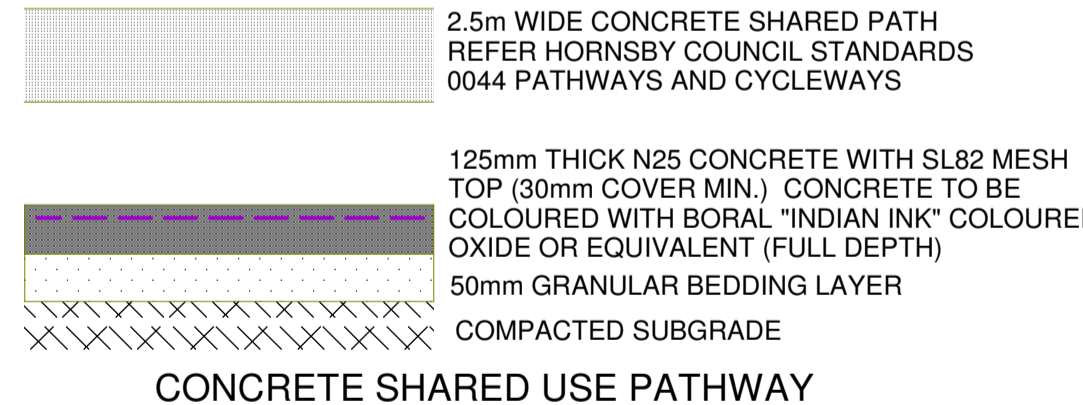
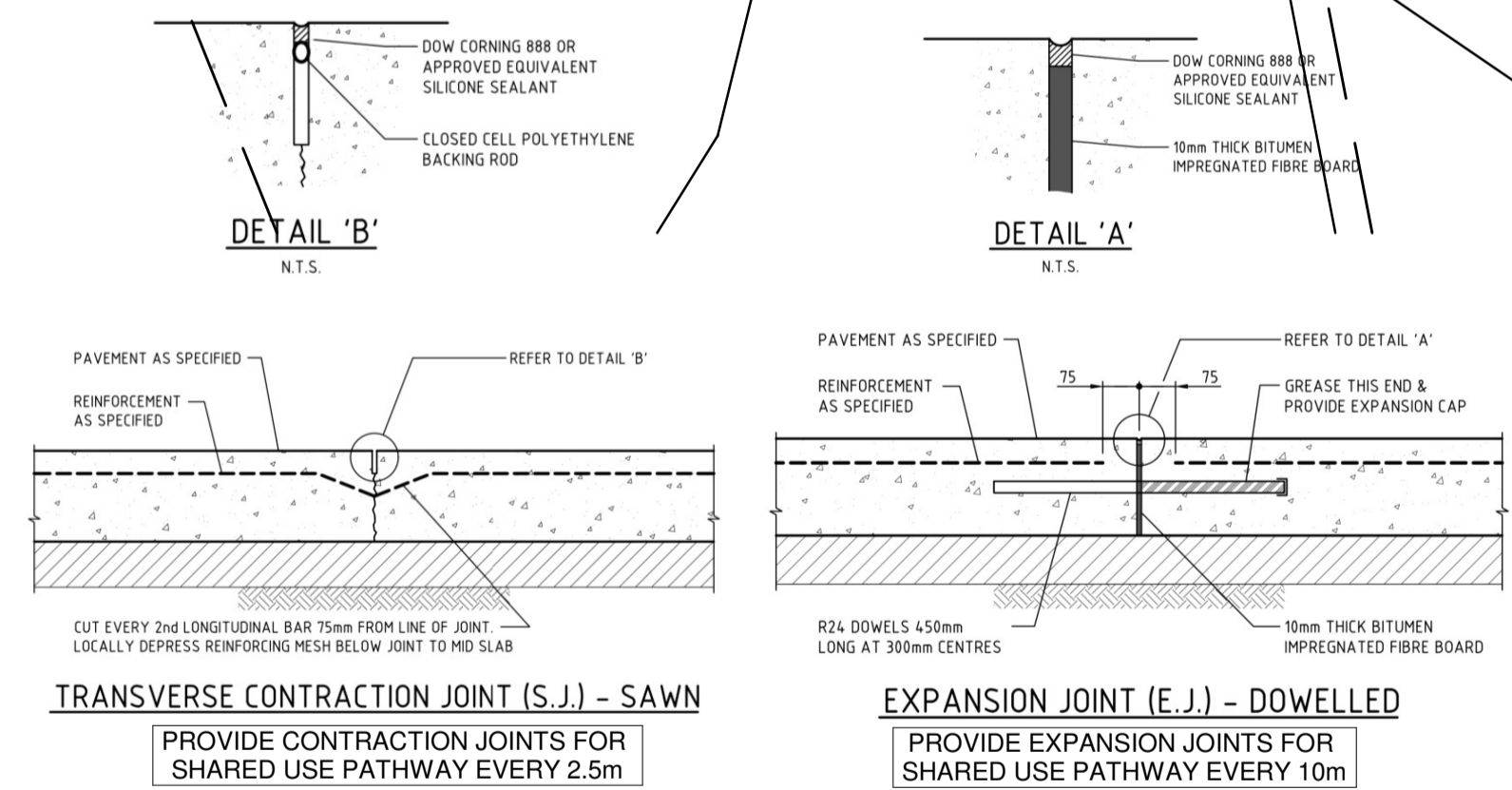


APPROVED FULL DEPTH EXPANSION JOINTS (15mm) TO BE PROVIDED AS FOLLOWS:
 - BETWEEN NEW AND EXISTING WORKS
 - BETWEEN LAYBACK WINGS AND KERB
 - EITHER SIDE OF ANY LINTELS
 - AT EVERY 6m INTERVALS ALONG CONTINUOUS LENGTHS



CONTRACTION JOINTS FOR KERB & GUTTER:
 - INTERVALS: EVERY 3 M
 - TOOLING: 20 MM IN DEPTH TO FORM A NEAT GROOVE OF 5 MM MINIMUM WIDTH.

REFER HORNSBY COUNCIL STANDARD SPECIFICATION 1121 OPEN DRAINS INCLUDING KERB AND CHANNEL (GUTTER)



- PAVEMENT NOTES:**
- BASE MATERIAL, UNLESS NOTED OTHERWISE, SHALL BE UNBOUND DGB20 MATERIAL AS SPECIFIED IN THE RTA 3051
 - SUBBASE MATERIAL, UNLESS NOTED OTHERWISE, SHALL BE UNBOUND DGS40 MATERIAL AS SPECIFIED IN THE RTA 3051
 - SUBBASE TO BE PLACED IN 2 LAYERS AND COMPACTED IN 2 LAYERS.
 - FREQUENCIES OF COMPACTION TESTS FOR PAVEMENT CONSTRUCTION SHALL BE AS FOLLOWS (TEST PER LAYER AND WHICHEVER IS GREATER NUMBER)
 A. 1 TEST PER 50m LENGTH OF ROAD OR
 B. 1 TEST PER 400m²
 - COMPACTION REQUIREMENTS FOR PAVEMENT CONSTRUCTION SHALL BE AS FOLLOWS:
 A. BASE AND SUBBASE: 98% OF MMDM TO AS 11289 E2.1
 B. SELECT AND SUBGRADE: 100% OF SMDD
 - THE CONTRACTOR SHALL MAKE AVAILABLE A 3-POINT ROLLER WITH ITS WHEELS FILLED WITH WATER AND SHALL CARRY OUT PROOF ROLLING OF EACH LAYER TO THE SATISFACTION OF INSPECTOR (SUPERINTENDENT, COUNCIL ENGINEER OR SUPERVISING GEOTECHNICAL ENGINEER)
 - THE PRIMER TO BE USED SHALL BE MEDIUM CURING CUTBACK BITUMEN COMPLYING WITH THE REQUIREMENTS OF AS 2157. THE GRADE OF CUTBACK BITUMEN SHOULD BE AMC 0.
 - AGGREGATES FOR THE SEAL SHALL BE ONE-SIZED OF THE NOMINAL SIZE AND CLASS SPECIFIED ON DRAWING. THESE AGGREGATES SHALL BE PRECOATED WITH A BITUMEN BASED PRECOATING MATERIAL.
 - ASPHALTIC CONCRETE AS SPECIFIED ON THE DRAWING SHALL COMPLY WITH AS 2150 - ASPHALT (HOT-MIXED)

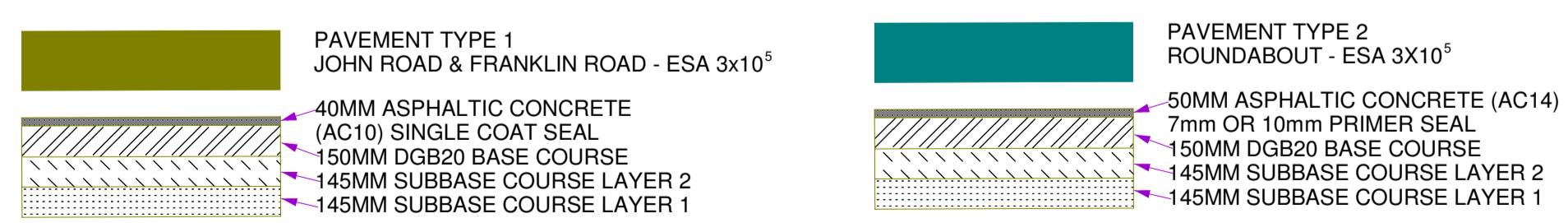
TREES APPROVED FOR REMOVAL:
 11,12,13,15,16,17,18,19,21,46,47,47A,50,51,52
 53,53A,53B,53C,54,55,56,57,58,59,60,61,62,62A
 63,76,77,78,79,80,81,82,83,84,84.85,86,89,92,93,94
 95,96,97,98,99,100,101,102,103,103A,104,105,107,109

RDA TO BE FENCED OFF WITH TEMPORARY SITE FENCING TO EXCLUDE ENTRY

R.D.A. DENOTES PROPOSED RESTRICTED DEVELOPMENT AREA

TOTAL SITE AREA - 9228m²

- (A) EASEMENT FOR TRANSMISSION LINE 30.48 WIDE (D.P. 444349) WIDE J5360
- (B) PROPOSED EASEMENT TO DRAIN WATER 1 WIDE
- (C) PROPOSED RIGHT OF ACCESS & EASEMENT TO DRAIN WATER 3.5 WIDE
- (D) EASEMENT TO DRAIN WATER VARIABLE WIDTH (D.P. 828271)



PAVEMENT DESIGN BASED ON GEOTEST SERVICES REPORT REF-34489-2, DATED 29TH NOV, 2023

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REV	DATE	DESCRIPTION	REV. BY
F	27-06-24	JOINTING DETAIL UPDATED	S.T.
E	26-06-24	JOINTING DETAIL UPDATED	S.T.
D	26-06-24	JOINTING DETAIL UPDATED	S.T.
C	17-06-24	JOINTING DETAIL UPDATED	S.T.
B	30-05-24	JOINTING DETAILS ADDED	S.T.
A	12-12-23	ISSUE FOR COUNCIL SUBMISSION	S.T.

PLAN OF PROPOSED CIVIL WORKS FOR APPROVED DA/1146/2020/A FOR LOT 18 IN D.P. 16975
 90-92 FRANKLIN ROAD - CHERRYBROOK

LGA : HORNSBY
 DATUM: A.H.D.
 DATE: 04-12-2023
 CAD: S15696 SWC
 NOTE: DIMENSIONS AND AREAS ARE SUBJECT TO FINAL SURVEY

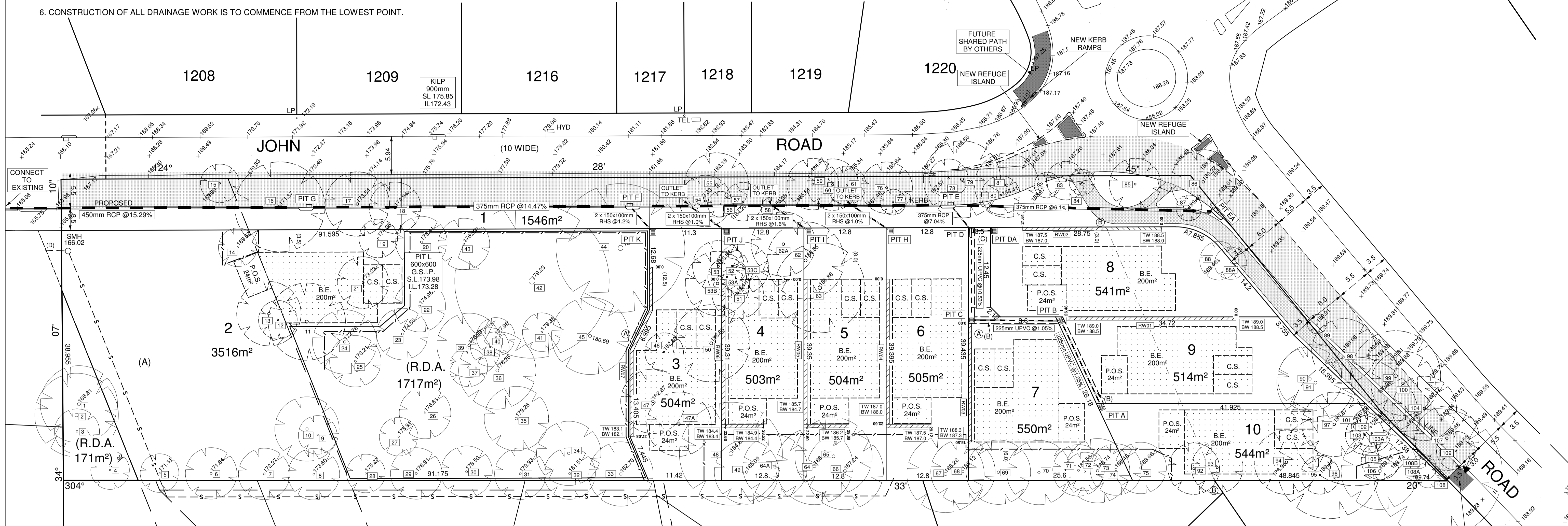


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 OFFICE 4, GROUND FLOOR PROJECT MANAGEMENT (02) 9484 5121
 295 - 299 PENNANT HILLS ROAD ALL CORRESPONDENCE TO web: www.psgraham.com.au
 THORNLEIGH NSW 2120 P.O. BOX 263 BEECROFT NSW 2119 email: ps@psgraham.com.au

SCALE: 1:300 (A1)
 SHEET 8 OF 20 REV. F
 REF.No. S.15696

SITE WORKS & DRAINAGE PLAN

1. ALL NEW WORKS SHALL MAKE SMOOTH CONNECTION TO EXISTING CONDITIONS
2. ALL PIPES SHALL BE ON 1% MINIMUM GRADE U.N.O. AND HAVE MINIMUM 300mm COVER
3. THE CONTRACTOR SHALL MAINTAIN SERVICES & ALL WEATHER ACCESS AT ALL TIMES DURING CONSTRUCTION
4. STEP IRONS TO HORNSBY COUNCIL'S SPECIFICATIONS SHALL BE PROVIDED WHERE PITS DEEPER THAN 1200mm
5. EXISTING LEVELS, SERVICE DEPTH & LOCATION TO BE CHECKED PRIOR TO CONSTRUCTION
6. CONSTRUCTION OF ALL DRAINAGE WORK IS TO COMMENCE FROM THE LOWEST POINT.



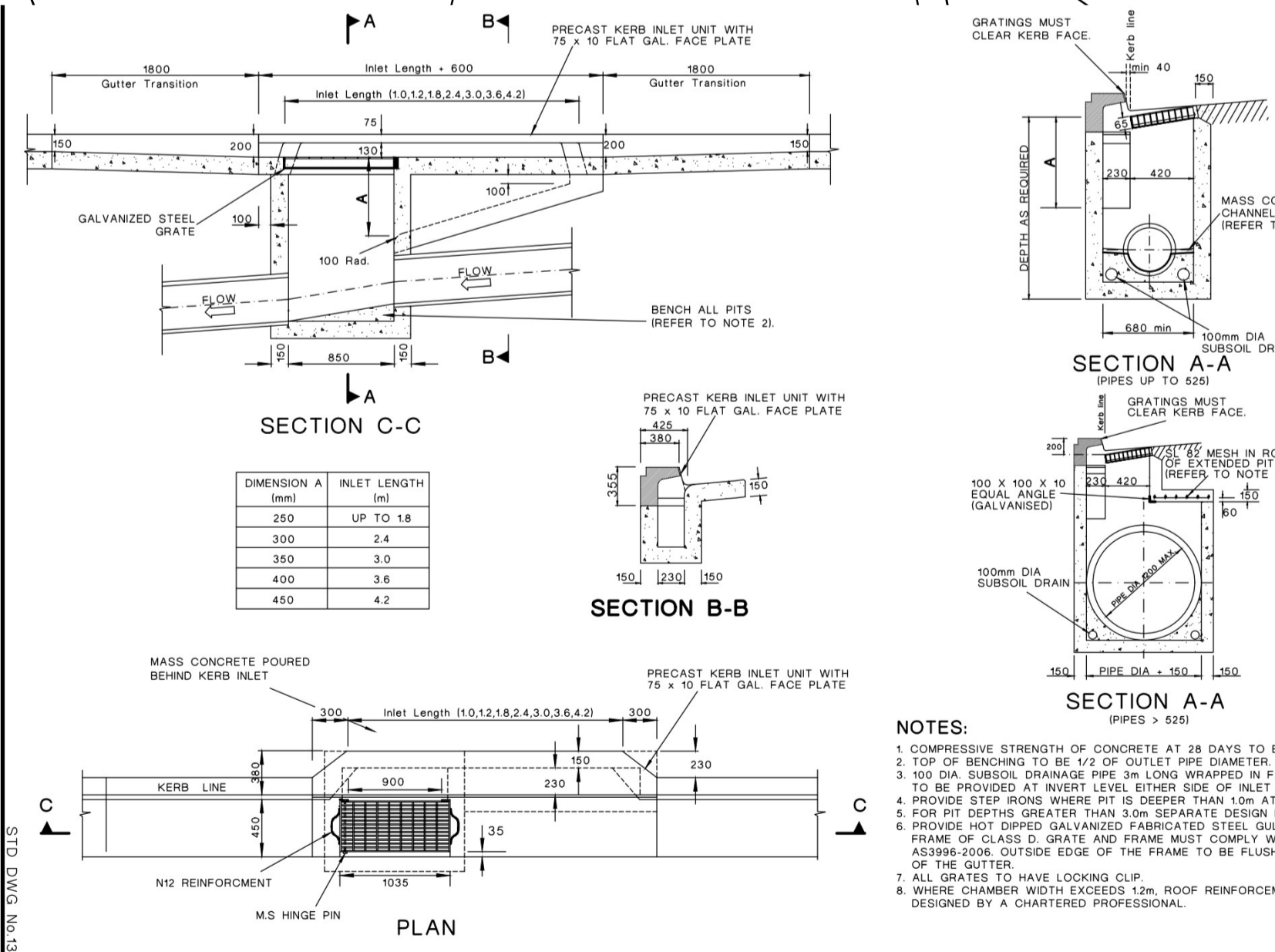
HORNSBY COUNCIL
STANDARD GP WITH EXTENDED KERB INLET

RDA TO BE FENCED OFF WITH TEMPORARY SITE FENCING TO EXCLUDE ENTRY

R.D.A. DENOTES PROPOSED RESTRICTED DEVELOPMENT AREA

TOTAL SITE AREA - 9228m²

(A) EASEMENT FOR TRANSMISSION LINE 30.48 WIDE (D.P. 444349) VIDE J5360
 (B) PROPOSED EASEMENT TO DRAIN WATER 1 WIDE
 (C) PROPOSED RIGHT OF ACCESS & EASEMENT TO DRAIN WATER 3.5 WIDE
 (D) EASEMENT TO DRAIN WATER VARIABLE WIDTH (D.P.828271)



- NOTES:**
1. COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS TO BE 20MPa.
 2. TOP OF BENCHING TO BE 1/2 OF OUTLET PIPE DIAMETER.
 3. 100 DIA. SUBSOIL DRAINAGE PIPE 3m LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED AT INVERT LEVEL EITHER SIDE OF INLET PIPES.
 4. PROVIDE STEP IRONS WHERE PIT IS DEEPER THAN 1000 AT 450 CENTRES.
 5. FOR PIT DEPTHS GREATER THAN 3000 SEPARATE DESIGN IS REQUIRED.
 6. PROVIDE HOT DIPPED GALVANIZED FABRICATED STEEL GULLY GRATE AND FRAME OF GLASS OR GRATE AND FRAME MUST COMPLY WITH AS3998-2006 OUTSIDE EDGE OF THE FRAME TO BE FLUSH WITH THE LIP OF THE GRATE.
 7. ALL GRATES TO HAVE LOCKING CLIP.
 8. WHERE CHAMBER WIDTH EXCEEDS 1300, ROOF REINFORCEMENT TO BE DESIGNED BY A CHARTERED PROFESSIONAL.

STORMWATER PITS TO BE BUILT TO HORNSBY COUNCIL STANDARDS REFER HSC STD DWG No. 12 & 13

PIT SCHEDULE

PIT IDENTIFIER	PIT TYPE	PIT CHAMBER SIZE	PIT LID TYPE
PIT A	GSIP	600 x 600	NOMINAL 600 x 600 CLASS B GALVANISED GRATE
PIT B	GSIP	600 x 600	NOMINAL 600 x 600 CLASS B GALVANISED GRATE
PIT C	GSIP	600 x 600	NOMINAL 600 x 600 CLASS B GALVANISED GRATE
PIT D	0.9m KILP	900 x 600	600 x 450 CLASS D CAST IRON
PIT DA	GSIP	600 x 600	NOMINAL 600 x 600 CLASS B GALVANISED GRATE
PIT E	1.8m KILP	900 x 650	900 x 450 CLASS D CAST IRON
PITEA	1.8m KILP	900 x 650	900 x 450 CLASS D CAST IRON
PIT F	1.8m KILP	900 x 650	900 x 450 CLASS D CAST IRON
PIT G	1.8m KILP	900 x 650	900 x 450 CLASS D CAST IRON

TREES APPROVED FOR REMOVAL:
 11,12,13,15,16,17,18,19,21,46,47,47A,50,51,52
 53,53A,53B,53C,54,55,56,57,58,59,60,61,62,62A
 63,76,77,78,79,80,81,82,83,84,84A,85,86,89,92,93,94
 95,96,97,98,99,100,101,102,103,103A,104,105,107,109

SITE WORKS TO INCLUDE THE DEMOLITION OF ALL EXISTING STRUCTURES IN ACCORDANCE WITH A.S.2601-2001

BASE DETAIL SURVEY BY:
 CHADWICKCHENG CONSULTING SURVEYORS
 REF: 39023/D DATE: 12/08/2019



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REV	DATE	DESCRIPTION	REV. BY
C	06-06-24	PIT D DETAIL UPDATED	S.T.
B	30-05-24	PIT SCHEDULE ADDED	S.T.
A	12-12-23	ISSUE FOR COUNCIL SUBMISSION	S.T.

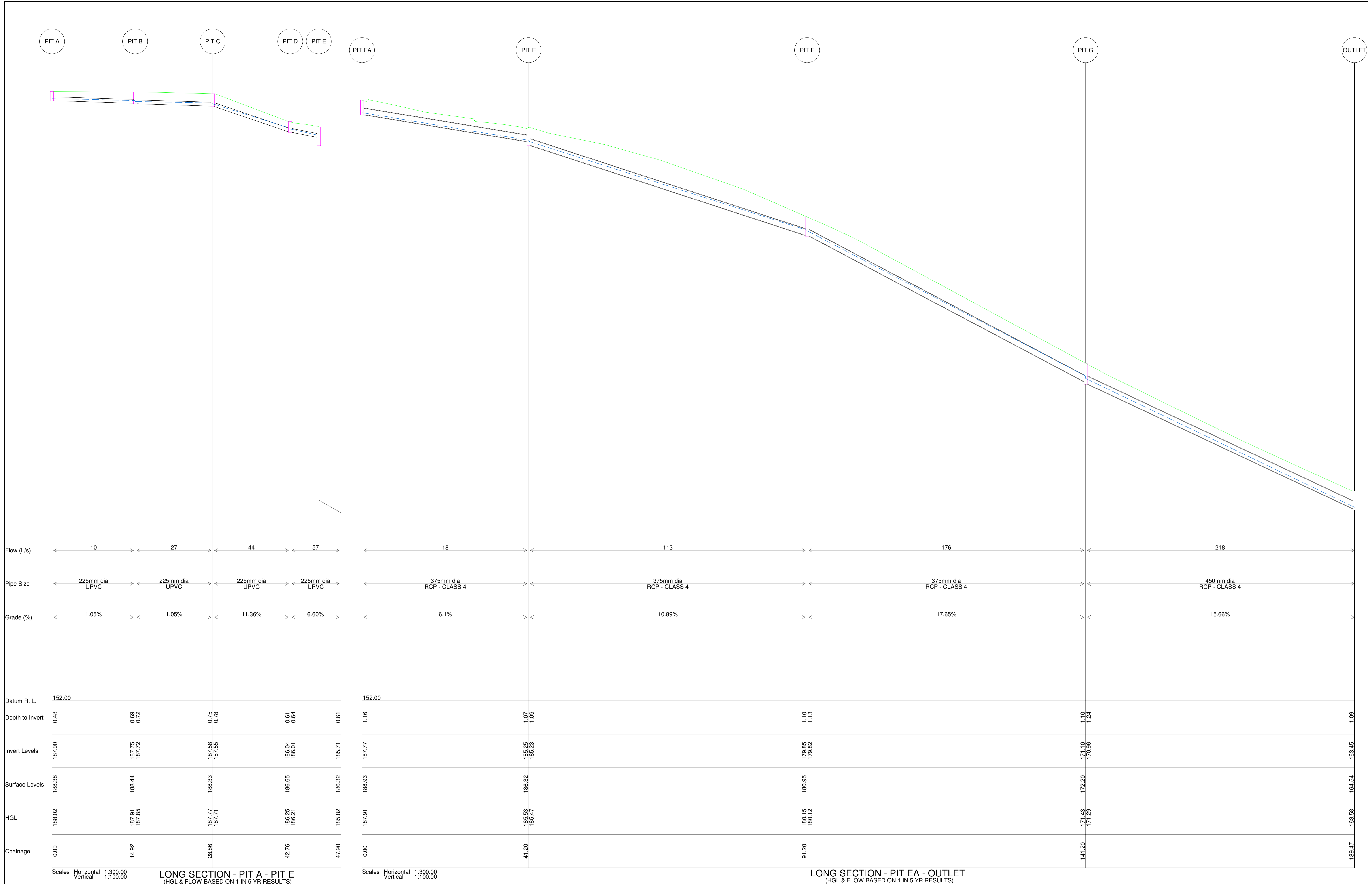
PLAN OF PROPOSED CIVIL WORKS FOR APPROVED DA/1146/2020/A FOR LOT 18 IN D.P. 16975 90-92 FRANKLIN ROAD - CHERRYBROOK

LGA : HORNSBY DATUM: A.H.D.

DATE: 04-12-2023 CAD: S15696 SWC

NOTE: DIMENSIONS AND AREAS ARE SUBJECT TO FINAL SURVEY

SCALE: 1:300 SHEET 9 OF 20 REF.No. S.15696



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REV	DATE	DESCRIPTION	REV. BY
C	26-06-24	HGL LINE ADDED	S.T.
B	30-05-24	DESIGN UPDATED	S.T.
A	12-12-23	ISSUE FOR COUNCIL SUBMISSION	S.T.

PLAN OF PROPOSED CIVIL WORKS FOR APPROVED DA/1146/2020/A FOR LOT 18 IN D.P. 16975 90-92 FRANKLIN ROAD - CHERRYBROOK

LGA : HORNSBY
 DATUM: A.H.D.

DATE: 04-12-2023
 CAD: S15696 SWC

NOTE: DIMENSIONS AND AREAS ARE SUBJECT TO FINAL SURVEY

SCALE: 1:300
 SHEET 10 OF 20
 REF.No. **S.15696**

A1
 REV. C

PIT / NODE DETAILS			Version 15																	
Name	Type	Family	Size	Ponding Volume (cu.m)	Pressure Change Coeff. Ku	Surface Elev (m)	Max Pond Depth (m)	Base Inflow (cu.m/s)	Blocking Factor	x	y	Bolt-down lid	id	Part Full Shock Loss	Inflow Hydrograph	Pit is	Internal Width (mm)	Inflow is Misaligned (m)	Minor Safe Pond Depth (m)	Major Safe Pond Depth (m)
PIT A	OnGrade	GSIP	600X600 SWALE		5.9	188.45		0	0.5	4575.344	6658.154	No		7 1 x Ku	No	New		No		
PIT B	OnGrade	GSIP	600X600 SWALE		5.9	188.43		0	0.5	4577.766	6672.881	No		6 1 x Ku	No	New		No		
PIT C	OnGrade	GSIP	600X600 SWALE		5.4	188.32		0	0.5	4566.364	6680.898	No		5 1 x Ku	No	New		No		
PIT D	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 0.9 m lintel		2.2	186.65		0	0.2	4574.245	6692.346	No		4 1 x Ku	No	New		No		
PIT E	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel		5.8	186.32		0	0.2	4573.872	6697.475	No		8 1 x Ku	No	New		No		
PIT F	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel		4.8	180.94		0	0.2	4532.598	6725.697	No		9 1 x Ku	No	New		No		
PIT G	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel		4.9	172.19		0	0.2	4491.325	6753.919	No		3 1 x Ku	No	New		No		
OUTLET	Node					164.54		0		4451.475	6781.594			19	No					
PIT EA	OnGrade	Hornsby Council Inlets (KI+grate), 3% crossfall, all grades	Hornsby 1.8 m lintel		5.9	188.93		0	0.2	4601.012	6684.922	No		10 1 x Ku	No	New		No		
PIT DA	OnGrade	GSIP	600X600 SWALE		5.9	186.91		0	0.5	4577.293	6690.389	No		2400272 1 x Ku	No	New		No		

DETENTION BASIN DETAILS			Version 15																	
Name	Elev	Surf. Area	Not Used	Outlet Type	K	Dia(mm)	Centre RL	Pit Family	Pit Type	x	y	HED	Crest RL	Crest Leng	id					

SUB-CATCHMENT DETAILS			Version 15																
Name	Pit or Node	Total Area (ha)	EIA %	Perv Area %	RIA %	EIA Time (min)	Perv Time (min)	RIA Time (min)	EIA Length (m)	Perv Length (m)	RIA Length (m)	EIA Slope (%)	Perv Slope (%)	RIA Slope (%)	EIA Rough	Perv Rough	RIA Rough	Rainfall Multiplier	
C-A	PIT A	0.054	65	35	0	5	5	2										1	
C-B	PIT B	0.051	65	35	0	5	5	2										1	
C-C	PIT C	0.05	65	35	0	5	5	2										1	
C-D	PIT D	0.005	65	35	0	5	5	2										1	
C-E	PIT E	0.041	100	0	0	5	5	2										1	
C-F	PIT F	0.253	65	35	0	5	5	2										1	
C-G	PIT G	0.425	30	70	0	5	5	2										1	
C-EA	PIT EA	0.058	100	0	0	5	5	2										1	
C-DA	PIT DA	0.054	65	35	0	5	5	2										1	

PIPE DETAILS			Version 15																
Name	From	To	Length (m)	U/S IL (m)	D/S IL (m)	Slope (%)	Type	Dia (mm)	I.D. (mm)	Rough	Pipe ls	No. Pipes	Chg From	At Chg	Chg (m)	RL (m)	Chg (m)	RL (m)	etc (m)
PIT A - PIT B	PIT A	PIT B	14.9	187.903	187.754		1 uPVC, not under roads, 1% minimum slope	225	242	0.012	New	1	PIT A		0				
PIT B - PIT C	PIT B	PIT C	13.915	187.724	187.585		1 uPVC, not under roads, 1% minimum slope	225	242	0.012	New	1	PIT B		0				
PIT C - PIT D	PIT C	PIT D	13.875	187.555	186.04		10.92 uPVC, not under roads, 1% minimum slope	225	242	0.012	New	1	PIT C		0				
PIT D - PIT E	PIT D	PIT E	5.134	186.01	185.71		5.84 uPVC, not under roads, 1% minimum slope	225	242	0.012	New	1	PIT D		0				
PIT E - PIT F	PIT E	PIT F	49.917	185.228	179.848		10.78 Concrete, under roads, 1% minimum slope	375	375	0.013	New	1	PIT E		0				
PIT F - PIT G	PIT F	PIT G	49.917	179.818	171.098		17.47 Concrete, under roads, 1% minimum slope	375	375	0.013	New	1	PIT F		0				
PIT G - OUTLET	PIT G	OUTLET	48.353	170.964	163.448		15.54 Concrete, under roads, 1% minimum slope	450	450	0.013	New	1	PIT G		0				
PIT EA - PIT E	PIT EA	PIT E	41.2	187.77	185.25		6.12 Concrete, under roads, 1% minimum slope	375	375	0.013	New	1	PIT EA		0				
PIT DA - PIT D	PIT DA	PIT D	3.6	186.453	186.193		7.22 uPVC, not under roads, 1% minimum slope	150	154	0.012	New	1	PIT DA		0				

DETAILS of SERVICES CROSSING PIPES			Version 15																
Pipe	Chg (m)	Bottom Elev (m)	Height of Service (m)	Chg (m)	Bottom Elev (m)	Height of Se Chg (m)	Bottom Elev (m)	Height of Se etc (m)											

CHANNEL DETAILS			Version 15																
Name	From	To	Type	Length (m)	U/S IL (m)	D/S IL (m)	Slope (%)	Base Width (m)	L.B. Slope (1:?)	R.B. Slope (1:?)	Manning n	Depth (m)	Roofed						

OVERFLOW ROUTE DETAILS			Version 15																
Name	From	To	Travel Time (min)	Spill Level (m)	Crest Length (m)	Weir Coeff. C	Cross Section	Safe Major (m)	Safe Storn (m)	Safe Depth Minor (m)	Safe Depth Storn (m)	Safe Slope (sq.m/sec) (%)	Bed Slope (%)	D/S Area Contributing (%)	id	U/S IL	D/S IL	Length (m)	
OF5	PIT A	PIT B		1.1			Swale with 1:6 sideslopes	0.15	0.1	1	0.14	10		781976	188.45	188.43	14.5		
OF6	PIT B	PIT C		0.4			Swale with 1:6 sideslopes	0.15	0.1	1	0.79	10		781983	188.43	188.32	13.9		
OF7	PIT C	PIT D		0.1			Swale with 1:6 sideslopes	0.15	0.1	1	11.84	50		781985	188.32	186.65	14.1		
OF8	PIT D	PIT E		0.1			Swale with 1:6 sideslopes	0.15	0.1	1	6.47	20		1183155	186.65	186.32	5.1		
OF2	PIT E	PIT F		0.2			7.5 m roadway with 3% crossfall and barrier kerb	0.2	0.15	0.4	10.8	20		388643	186.32	180.94	49.8		
OF3	PIT F	PIT G		0.2			7.5 m roadway with 3% crossfall and barrier kerb	0.2	0.15	0.4	17.54	20		388644	180.94	172.19	49.9		
OF4	PIT G	OUTLET		0.4			7.5 m roadway with 3% crossfall and barrier kerb	0.2	0.15	0.4	2	5		388645	172.19	164.54	48.7		
OF1	PIT EA	PIT E		0.3			7.5 m roadway with 3% crossfall and barrier kerb	0.2	0.15	0.4	5.37	90		388642	188.93	186.32	41.2		
OF9	PIT DA	PIT D		0.1			Swale with 1:6 sideslopes	0.15	0.1	1	7.22	0		2400285	186.91	186.65	3.6		

This model has no pipes with non-return valves



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 web: www.psgraham.com.au email: ps@psgraham.com.au

Notes:-
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REV	DATE	DESCRIPTION	REV. BY
C	17-06-24	BLOCKAGE FACTOR ADDED	S.T.
B	30-05-24	DESIGN UPDATED	S.T.
A	12-12-23	ISSUE FOR COUNCIL SUBMISSION	S.T.

PLAN OF PROPOSED CIVIL WORKS FOR APPROVED DA/1146/2020/A FOR LOT 18 IN D.P. 16975 90-92 FRANKLIN ROAD - CHERRYBROOK
 LGA : HORNSBY
 DATUM: A.H.D.
 DATE: 04-12-2023
 CAD: S15696 SWC
 NOTE: DIMENSIONS AND AREAS ARE SUBJECT TO FINAL SURVEY

SCALE: 1:300
 SHEET 11 OF 20
 REF.No. **S.15696**
 (A1)
 REV. C

DRAINS results prepared from Version 2023.11.8726.15750
5 YEAR RESULT

PIT / NODE DETAILS

Name	Max HGL	Max Pond HGL	Version 8		Min Freeboard (m)	Overflow (cu.m/s)	Constraint
			Max Surface Flow (cu.m/s)	Max Pond Volume (cu.m)			
PIT A	188.02		0.023		0.43	0.006	Inlet Capacity
PIT B	187.91		0.03		0.52	0.008	Inlet Capacity
PIT C	187.77		0.033		0.55	0.009	Inlet Capacity
PIT D	186.25		0.026		0.4	0	None
PIT E	185.53		0.013		0.79	0	None
PIT F	180.15		0.096		0.79	0.017	Inlet Capacity
PIT G	171.43		0.193		0.76	0.047	Inlet Capacity
OUTLET	163.58		0.123				
PIT EA	187.91		0.025		1.02	0.001	Inlet Capacity
PIT DA	186.57		0.023		0.34	0.006	Inlet Capacity

SUB-CATCHMENT DETAILS

Name	Max Flow Q (cu.m/s)	EIA Max Q (cu.m/s)	Remaining Max Q (cu.m/s)	EIA Tc (min)	RIA Tc (min)	PA Tc (min)	Due to Storm
C-A	0.015	0.011	0.004	5	2	2	5 20% AEP, 10 min burst, Storm 8
C-B	0.014	0.01	0.004	5	2	2	5 20% AEP, 10 min burst, Storm 8
C-C	0.014	0.01	0.004	5	2	2	5 20% AEP, 10 min burst, Storm 8
C-D	0.001	0.001	0	5	2	2	5 20% AEP, 10 min burst, Storm 8
C-E	0.016	0.016	0	5	2	2	5 20% AEP, 5 min burst, Storm 1
C-F	0.072	0.051	0.02	5	2	2	5 20% AEP, 10 min burst, Storm 8
C-G	0.116	0.04	0.081	5	2	2	5 20% AEP, 20 min burst, Storm 6
C-EA	0.022	0.022	0	5	2	2	5 20% AEP, 5 min burst, Storm 1
C-DA	0.015	0.011	0.004	5	2	2	5 20% AEP, 10 min burst, Storm 8

PIPE DETAILS

Name	Max Q (cu.m/s)	Max V (m/s)	Max U/S HGL (m)	Max D/S HGL (m)	Due to Storm
PIT A - PIT B	0.009	0.41	188.019	187.91	20% AEP, 10 min burst, Storm 8
PIT B - PIT C	0.023	0.99	187.848	187.767	20% AEP, 10 min burst, Storm 8
PIT C - PIT D	0.037	1.17	187.712	186.252	20% AEP, 10 min burst, Storm 8
PIT D - PIT E	0.062	3	186.212	185.822	20% AEP, 10 min burst, Storm 4
PIT E - PIT F	0.111	1.46	185.472	180.15	20% AEP, 5 min burst, Storm 1
PIT F - PIT G	0.168	1.77	180.119	171.43	20% AEP, 10 min burst, Storm 4
PIT G - OUTLET	0.21	5.41	171.285	163.58	20% AEP, 10 min burst, Storm 8
PIT EA - PIT E	0.019	0.53	187.907	185.529	20% AEP, 5 min burst, Storm 1
PIT DA - PIT D	0.01	1.45	186.543	186.252	20% AEP, 10 min burst, Storm 8

CHANNEL DETAILS

Name	Max Q (cu.m/s)	Max V (m/s)	Due to Storm

OVERFLOW ROUTE DETAILS

Name	Max Q U/S	Max Q D/S	Safe Q	Max D	Max DxV	Max Width	Max V	Due to Storm
OF5	0.006	0.008	0.02	0.062	0.02	1.49	0.43	20% AEP, 10 min burst, Storm 8
OF6	0.008	0.009	0.048	0.054	0.02	1.29	0.45	20% AEP, 10 min burst, Storm 8
OF7	0.009	0.01	0.186	0.04	0.02	0.96	0.75	20% AEP, 10 min burst, Storm 8
OF8	0	0.003	0.137	0.028	0.01	0.67	0.45	20% AEP, 5 min burst, Storm 1
OF2	0	0.014	0.488	0.039	0.07	0.45	1.8	20% AEP, 10 min burst, Storm 8
OF3	0.017	0.04	0.39	0.048	0.14	0.73	2.83	20% AEP, 20 min burst, Storm 6
OF4	0.047	0.046	0.434	0.052	0.14	0.87	2.82	20% AEP, 20 min burst, Storm 6
OF1	0.001	0.013	0.663	0.044	0.06	0.59	1.48	20% AEP, 5 min burst, Storm 1
OF9	0.006	0.006	0.145	0.03	0.02	0.73	0.56	20% AEP, 10 min burst, Storm 8

Run Log for DRAINS v2023.11.8726.15750 - 90-92 FRANKLIN ROAD - CHERRYBROOK REV B
{\color{red}\green{0}\blue{0};\red{192}\green{0}\blue{0};}Run Log for DRAINS v2023.11.8726.15750 - 90-92 FRANKLIN ROAD - CHERRYBROOK REV B.drn run at 15:05:18 on 17/6/2024 using Watercom Drains v2023.11.8726.15750

No water upwelling from any pit.
Freeboard was adequate at all pits.

Flows were safe in all overflow routes.

DRAINS results prepared from Version 2023.11.8726.15750
20 YEAR RESULT

PIT / NODE DETAILS

Name	Max HGL	Max Pond HGL	Version 8		Min Freeboard (m)	Overflow (cu.m/s)	Constraint
			Max Surface Flow (cu.m/s)	Max Pond Volume (cu.m)			
PIT A	188.06		0.033		0.39	0.011	Inlet Capacity
PIT B	188.01		0.044		0.42	0.015	Inlet Capacity
PIT C	187.84		0.049		0.48	0.017	Inlet Capacity
PIT D	186.45		0.041		0.2	0.005	Inlet Capacity
PIT E	185.55		0.032		0.77	0.002	Inlet Capacity
PIT F	180.37		0.144		0.57	0.037	Inlet Capacity
PIT G	171.65		0.304		0.54	0.139	Inlet Capacity
OUTLET	163.6		0.238				
PIT EA	187.93		0.035		1	0.003	Inlet Capacity
PIT DA	186.61		0.033		0.3	0.01	Inlet Capacity

SUB-CATCHMENT DETAILS

Name	Max Flow Q (cu.m/s)	EIA Max Q (cu.m/s)	Remaining Max Q (cu.m/s)	EIA Tc (min)	RIA Tc (min)	PA Tc (min)	Due to Storm
C-A	0.024	0.017	0.008	5	2	2	5 5% AEP, 15 min burst, Storm 4
C-B	0.022	0.016	0.008	5	2	2	5 5% AEP, 15 min burst, Storm 4
C-C	0.022	0.016	0.008	5	2	2	5 5% AEP, 15 min burst, Storm 4
C-D	0.002	0.002	0.001	5	2	2	5 5% AEP, 15 min burst, Storm 4
C-E	0.022	0.022	0	5	2	2	5 5% AEP, 5 min burst, Storm 1
C-F	0.112	0.08	0.039	5	2	2	5 5% AEP, 15 min burst, Storm 4
C-G	0.187	0.062	0.13	5	2	2	5 5% AEP, 15 min burst, Storm 4
C-EA	0.031	0.031	0	5	2	2	5 5% AEP, 5 min burst, Storm 1
C-DA	0.024	0.017	0.008	5	2	2	5 5% AEP, 15 min burst, Storm 4

PIPE DETAILS

Name	Max Q (cu.m/s)	Max V (m/s)	Max U/S HGL (m)	Max D/S HGL (m)	Due to Storm
PIT A - PIT B	0.013	0.53	188.033	188.006	5% AEP, 15 min burst, Storm 4
PIT B - PIT C	0.03	0.99	187.877	187.84	5% AEP, 15 min burst, Storm 5
PIT C - PIT D	0.05	1.34	187.737	186.452	5% AEP, 15 min burst, Storm 5
PIT D - PIT E	0.087	3.32	186.233	185.845	5% AEP, 15 min burst, Storm 5
PIT E - PIT F	0.133	1.58	185.495	180.368	5% AEP, 15 min burst, Storm 3
PIT F - PIT G	0.215	2.11	180.145	171.649	5% AEP, 15 min burst, Storm 3
PIT G - OUTLET	0.289	5.92	171.338	163.604	5% AEP, 15 min burst, Storm 5
PIT EA - PIT E	0.025	0.57	187.929	185.554	5% AEP, 5 min burst, Storm 1
PIT DA - PIT D	0.014	1	186.561	186.452	5% AEP, 15 min burst, Storm 4

CHANNEL DETAILS

Name	Max Q (cu.m/s)	Max V (m/s)	Due to Storm

OVERFLOW ROUTE DETAILS

Name	Max Q U/S	Max Q D/S	Safe Q	Max D	Max DxV	Max Width	Max V	Due to Storm
OF5	0.011	0.012	0.06	0.076	0.02	1.82	0.48	5% AEP, 15 min burst, Storm 5
OF6	0.015	0.017	0.142	0.066	0.03	1.58	0.51	5% AEP, 15 min burst, Storm 5
OF7	0.017	0.018	0.548	0.044	0.04	1.05	0.87	5% AEP, 15 min burst, Storm 5
OF8	0.005	0.009	0.405	0.04	0.02	0.96	0.59	5% AEP, 15 min burst, Storm 4
OF2	0.002	0.024	0.486	0.044	0.09	0.61	2.11	5% AEP, 15 min burst, Storm 5
OF3	0.037	0.074	0.397	0.059	0.18	1.1	3.13	5% AEP, 15 min burst, Storm 4
OF4	0.139	0.139	0.994	0.075	0.24	1.62	3.22	5% AEP, 15 min burst, Storm 4
OF1	0.003	0.022	0.661	0.058	0.08	1.06	1.7	5% AEP, 5 min burst, Storm 1
OF9	0.01	0.01	0.428	0.037	0.02	0.9	0.62	5% AEP, 15 min burst, Storm 4

Run Log for DRAINS v2023.11.8726.15750 - 90-92 FRANKLIN ROAD - CHERRYBROOK REV B
{\color{red}\green{0}\blue{0};\red{192}\green{0}\blue{0};}Run Log for DRAINS v2023.11.8726.15750 - 90-92 FRANKLIN ROAD - CHERRYBROOK REV B.drn run at 15:08:10 on 17/6/2024 using Watercom Drains v2023.11.8726.15750

No water upwelling from any pit.
Freeboard was adequate at all pits.

Flows were safe in all overflow routes.

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PLAN OF PROPOSED CIVIL WORKS FOR APPROVED
DA/1146/2020/A FOR LOT 18 IN D.P. 16975
90-92 FRANKLIN ROAD - CHERRYBROOK

LGA : HORNSBY
DATUM: A.H.D.

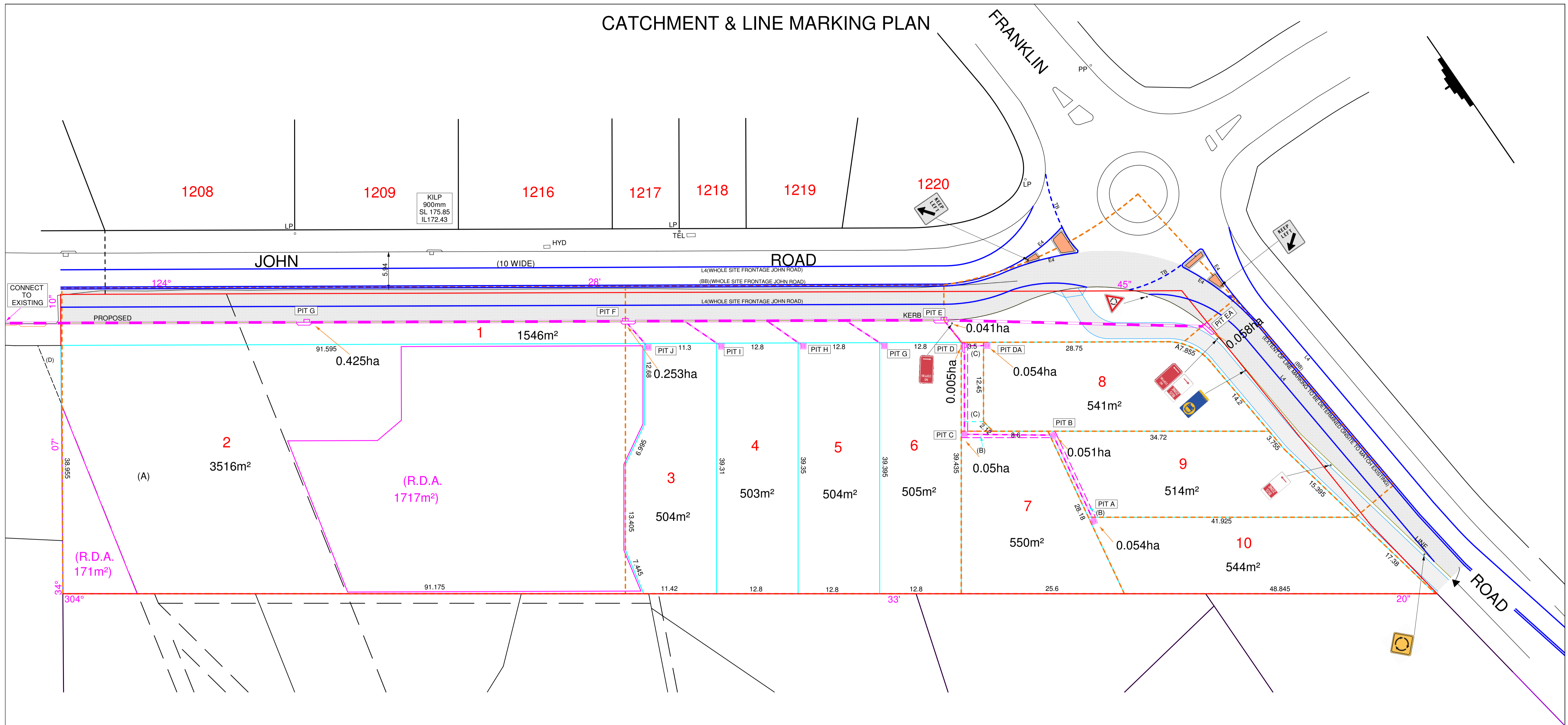
DATE: 04-12-2023
CAD: S15696 SWC

NOTE:
DIMENSIONS AND AREAS ARE
SUBJECT TO FINAL SURVEY



SCALE: 1:300 (A1)
SHEET 12 OF 20 REV. C
REF.No. S.15696

CATCHMENT & LINE MARKING PLAN



RDA TO BE FENCED OFF WITH TEMPORARY SITE FENCING TO EXCLUDE ENTRY

R.D.A. DENOTES PROPOSED RESTRICTED DEVELOPMENT AREA

TOTAL SITE AREA - 9228m²

- (A) EASEMENT FOR TRANSMISSION LINE 30.48 WIDE (D.P. 444349) VIDE J5360
- (B) PROPOSED EASEMENT TO DRAIN WATER 1 WIDE
- (C) PROPOSED RIGHT OF ACCESS & EASEMENT TO DRAIN WATER 3.5 WIDE
- (D) EASEMENT TO DRAIN WATER VARIABLE WIDTH (D.P.828271)

BASE DETAIL SURVEY BY:
CHADWICKCHENG CONSULTING SURVEYORS
REF: 39023/D DATE: 12/08/2019



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REV	DATE	DESCRIPTION	REV. BY
E	10-07-24	TRAFFIC SIGNS UPDATED	S.T.
D	10-07-24	SIGNS ADDED	S.T.
C	09-07-24	LINE MARKING ADDED	S.T.
B	30-05-24	PLAN UPDATED	S.T.
A	12-12-23	ISSUE FOR COUNCIL SUBMISSION	S.T.

PLAN OF PROPOSED CIVIL WORKS FOR APPROVED
DA/1146/2020/A FOR LOT 18 IN D.P. 16975
90-92 FRANKLIN ROAD - CHERRYBROOK

LGA : HORNSBY
DATUM: A.H.D.

DATE: 04-12-2023
CAD: S15696 SWC

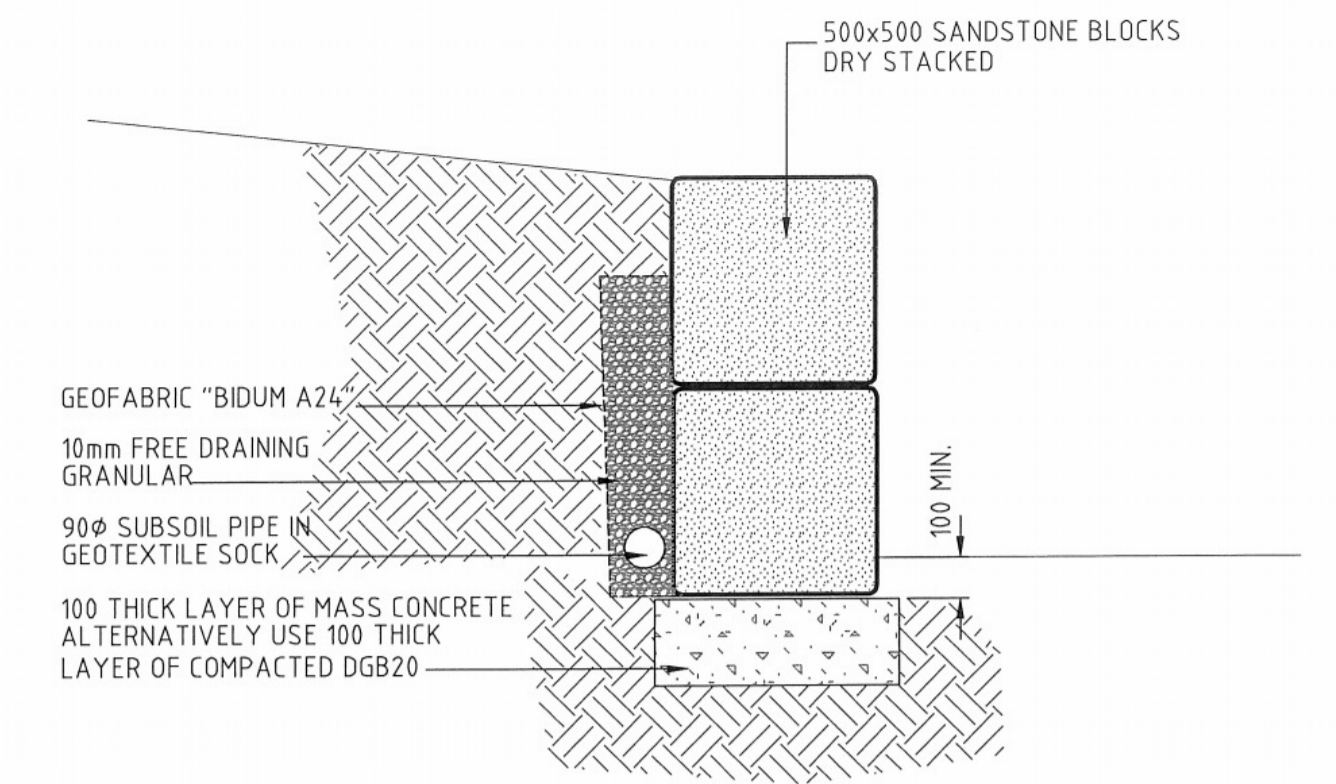
NOTE:
DIMENSIONS AND AREAS ARE
SUBJECT TO FINAL SURVEY

SCALE: 1:300

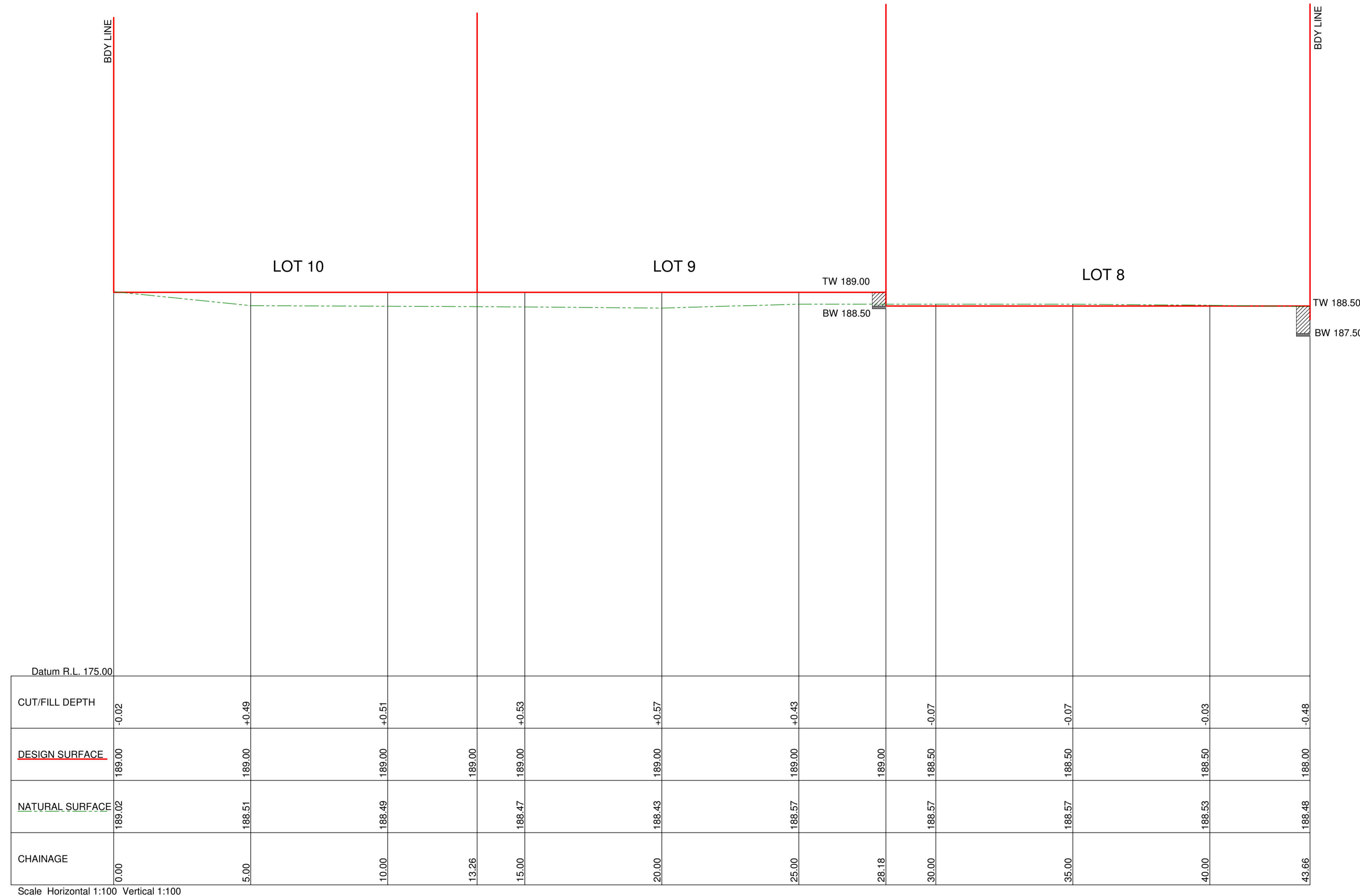
(A1)

SHEET 13 OF 20 REV. E

REF.No. S.15696



TYPICAL SANDSTONE LOG WALL



SITE SECTION B-B

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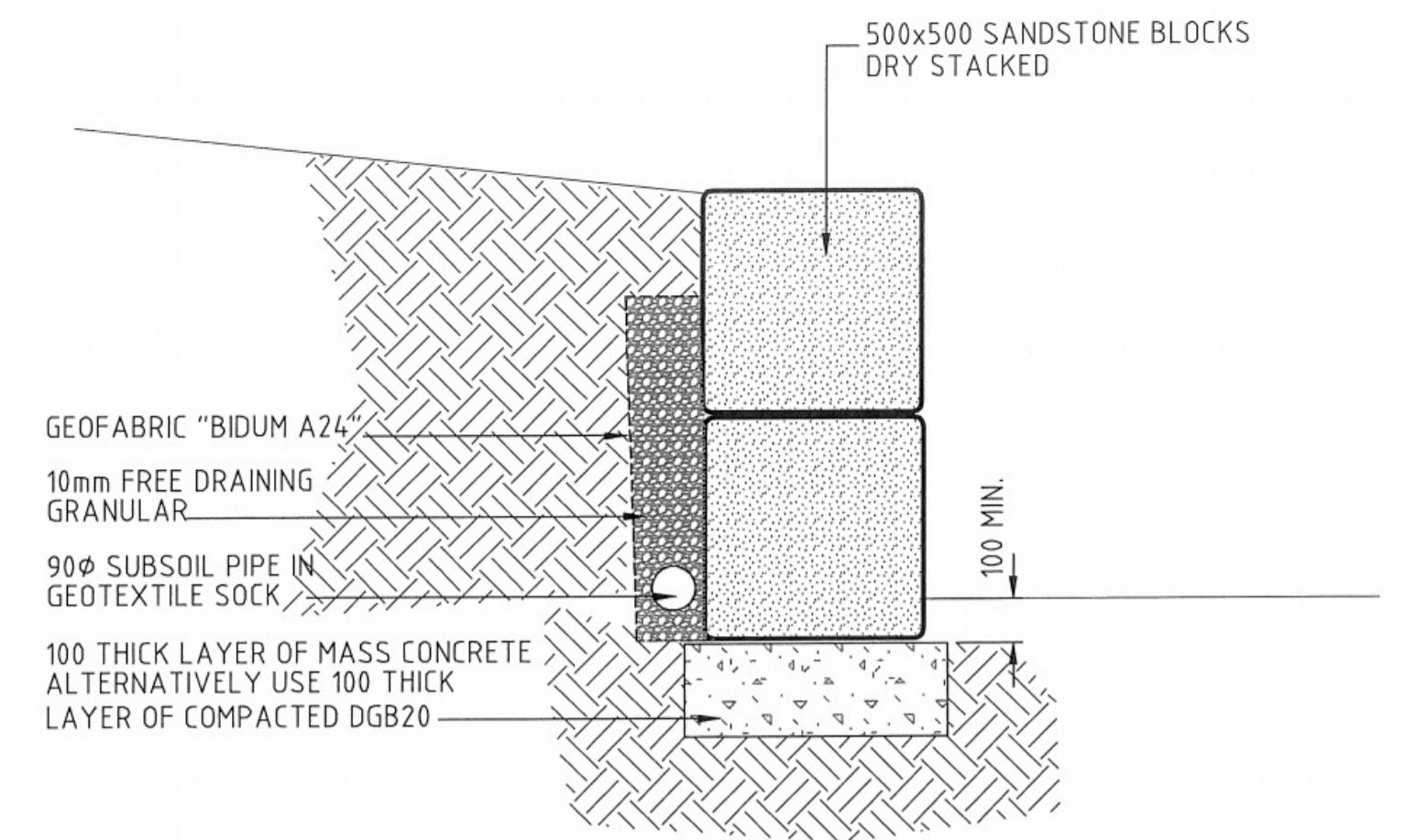
REV	DATE	DESCRIPTION	REV. BY
A	12-12-23	ISSUE FOR COUNCIL SUBMISSION	S.T.

PLAN OF PROPOSED CIVIL WORKS FOR APPROVED DA/1146/2020/A FOR LOT 18 IN D.P. 16975 90-92 FRANKLIN ROAD - CHERRYBROOK
 LGA : HORNSBY
 DATUM: A.H.D.

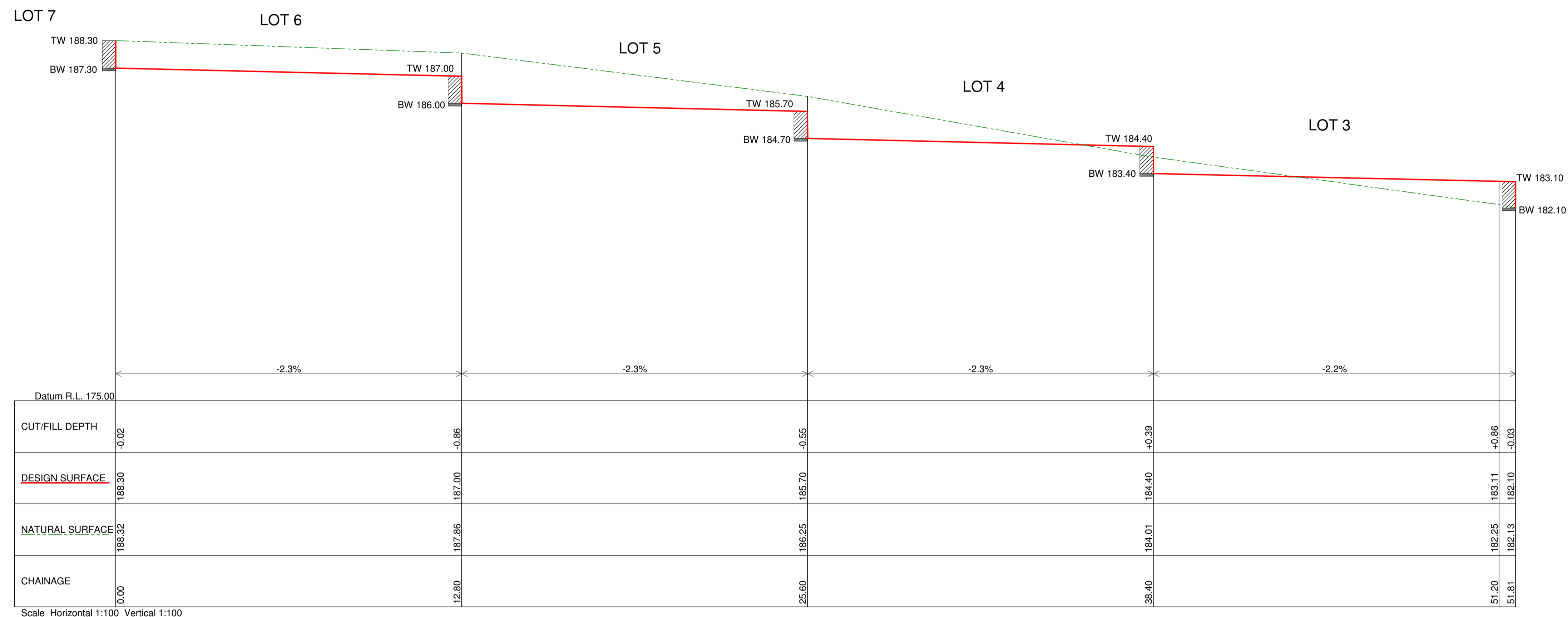
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 SHEET 14 OF 20
 REF.No. **S.15696**
 DATE: 04-12-2023
 CAD: S15696 SWC
 NOTE: DIMENSIONS AND AREAS ARE SUBJECT TO FINAL SURVEY

(A1)

REV. A



TYPICAL SANDSTONE LOG WALL



SITE SECTION A-A

PROPOSED RETAINING WALL LENGTH
 1m HIGH - 126m
 0.5m HIGH - 57m

P. S. GRAHAM & ASSOCIATES PTY LTD

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REV	DATE	DESCRIPTION	REV. BY
A	12-12-23	ISSUE FOR COUNCIL SUBMISSION	S.T.

PLAN OF PROPOSED CIVIL WORKS FOR APPROVED
 DA/1146/2020/A FOR LOT 18 IN D.P. 16975
 90-92 FRANKLIN ROAD - CHERRYBROOK

LGA : HORNSBY
 DATUM: A.H.D.

DATE: 04-12-2023
 CAD: S15696 SWC

NOTE:
 DIMENSIONS AND AREAS ARE
 SUBJECT TO FINAL SURVEY

SCALE: 1:300

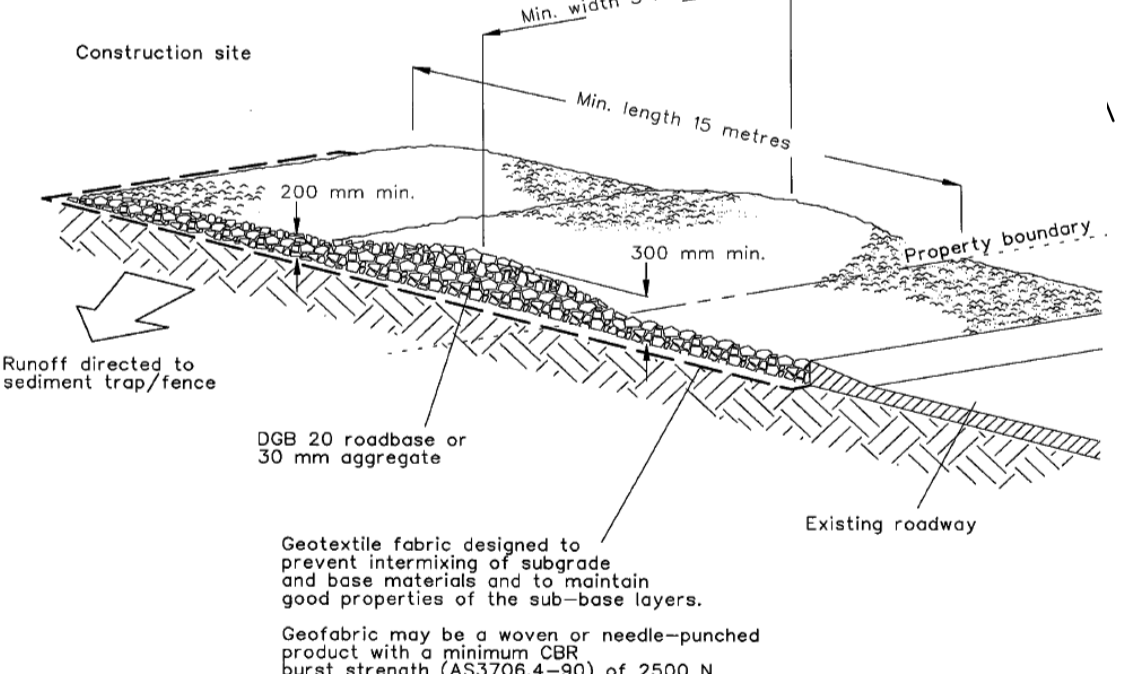
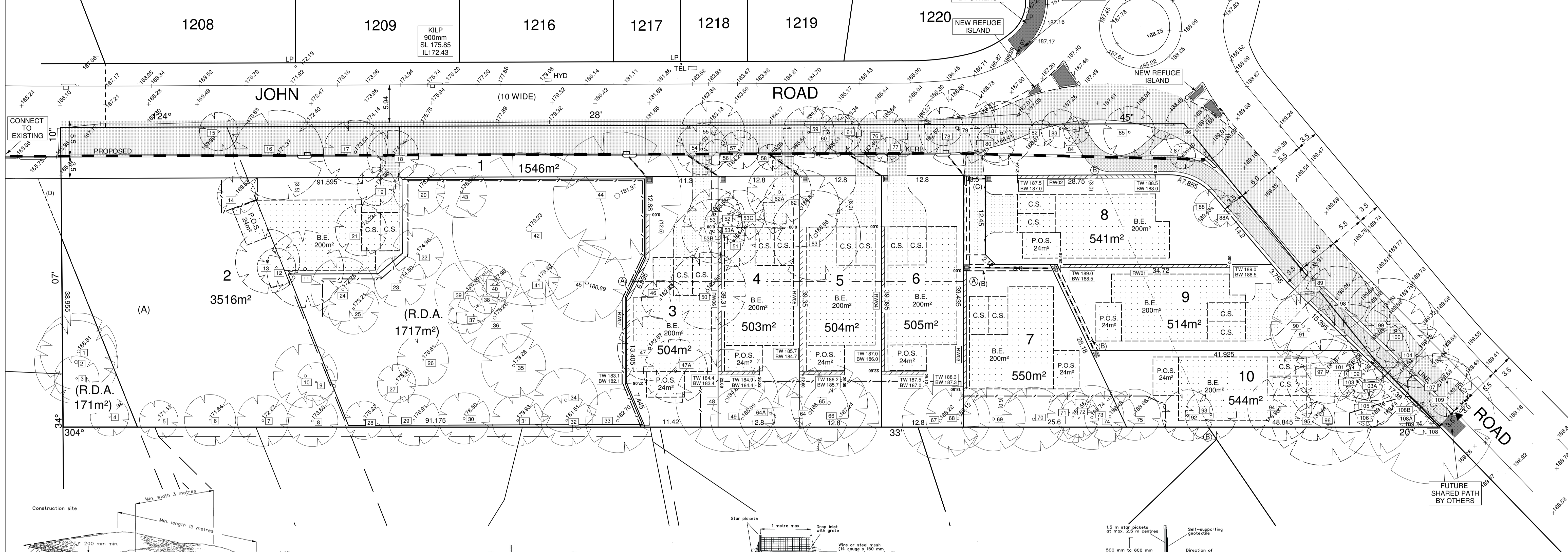
(A1)

SHEET 15 OF 20 REV. A

REF.No. S.15696

EROSION & SEDIMENT CONTROL PLAN

1. THE CONTRACTOR SHALL IMPLEMENT EROSION & SEDIMENT CONTROL MEASURES TO THE COUNCIL'S SPECIFICATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION & DURING CONSTRUCTION.
2. ALL EROSIONS & SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN A SATISFACTORY WORKING ORDER DURING THE CONSTRUCTION PERIOD. INSPECTIONS OF THESE DEVICES SHALL BE CARRIED OUT AFTER EACH STORM. REPAIRS AND/OR DE-CLOGGING SHALL BE CARRIED OUT TO ENSURE PROPER OPERATION OF THE DEVICE.
3. PROVIDE TEMPORY CONSTRUCTION EXIT TO SHAKE OFF SITE MATERIALS FROM EXITING VEHICLES AND SHALL CONSIST OF A PAD OF COURSE CRUSHED ROCK OR "CATTLE GRID" SYSTEM.
4. ALL GULLY PITS SHALL BE PROTECTED IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS
5. ALL GRATED SURFACE PITS SHALL BE PROTECTED IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS
6. THE CONTRACTOR SHALL PROVIDE TURF STRIPS BEHIND NEW KERB LINES & ESTABLISH

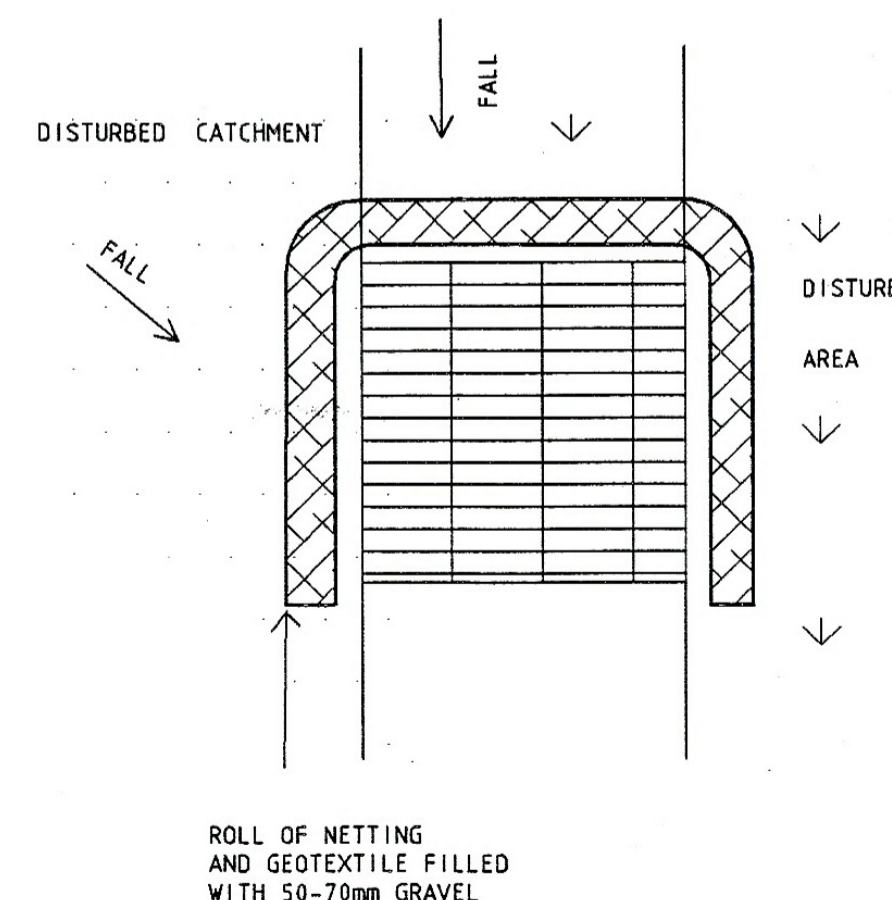


RDA TO BE FENCED OFF WITH TEMPORARY SITE FENCING TO EXCLUDE ENTRY

R.D.A. DENOTES PROPOSED RESTRICTED DEVELOPMENT AREA

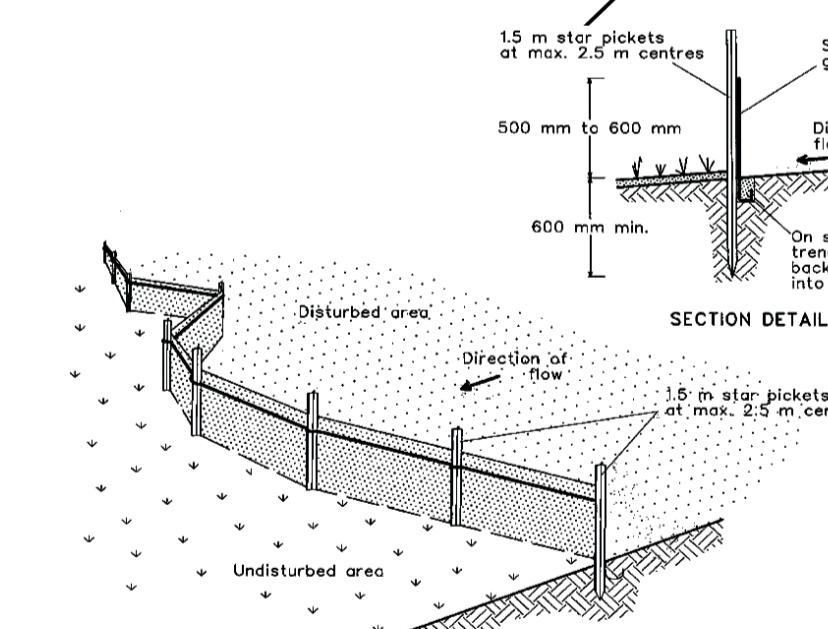
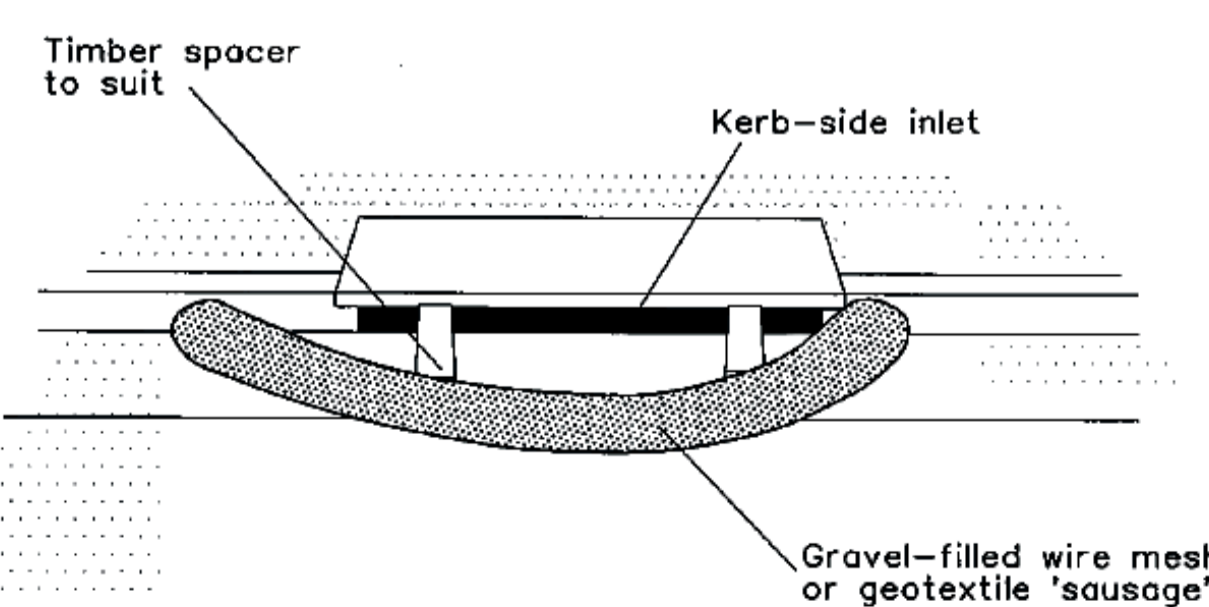
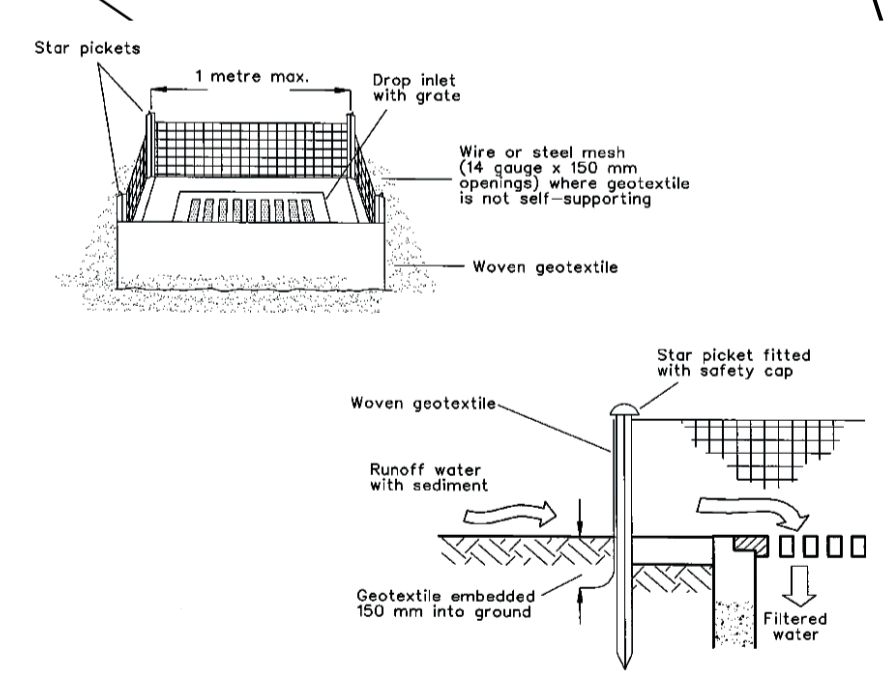
TOTAL SITE AREA - 9228m²

- (A) EASEMENT FOR TRANSMISSION LINE 30.48 WIDE (D.P. 444349) VIDE J5360
- (B) PROPOSED EASEMENT TO DRAIN WATER 1 WIDE
- (C) PROPOSED RIGHT OF ACCESS & EASEMENT TO DRAIN WATER 3.5 WIDE
- (D) EASEMENT TO DRAIN WATER VARIABLE WIDTH (D.P.828271)



PLAN OF SURFACE INLET SEDIMENT TRAP

PROVIDE FOR ALL GSIP PITS



TREES APPROVED FOR REMOVAL:
 11,12,13,15,16,17,18,19,21,46,47,47A,50,51,52
 53,53A,53B,53C,54,55,56,57,58,59,60,61,62,62A
 63,76,77,78,79,80,81,82,83,84,85,86,89,92,93,94
 95,96,97,98,99,100,101,102,103,103A,104,105,107,109

BASE DETAIL SURVEY BY:
 CHADWICKCHENG CONSULTING SURVEYORS
 REF: 39023/D DATE: 12/08/2019



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 THORNLEIGH NSW 2120 P.O. BOX 263 BEECROFT NSW 2119 email: psgr@psgraham.com.au

Notes:-
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 3. Tree positions and sizes shown are estimated.
 4. This drawing is subject to copyright. It must not be produced in whole or part without prior written consent of P. S. GRAHAM & ASSOCIATES. PTY. LTD

REV	DATE	DESCRIPTION	S.T.	REV. BY
A	12-12-23	ISSUE FOR COUNCIL SUBMISSION		

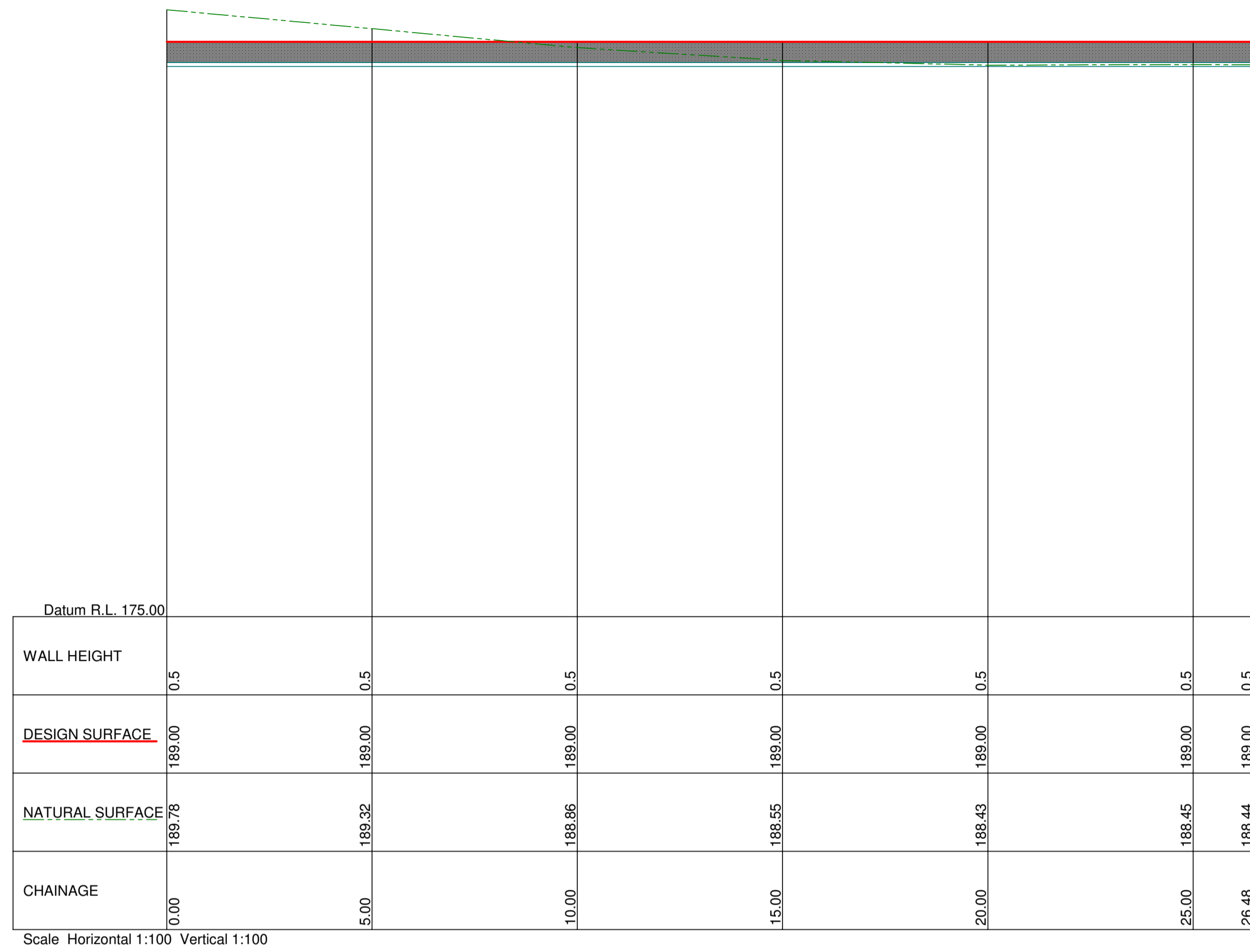
PLAN OF PROPOSED CIVIL WORKS FOR APPROVED DA/1146/2020/A FOR LOT 18 IN D.P. 16975 90-92 FRANKLIN ROAD - CHERRYBROOK

LGA : HORNSBY DATUM: A.H.D. DATE: 04-12-2023 CAD: S15696 SWC

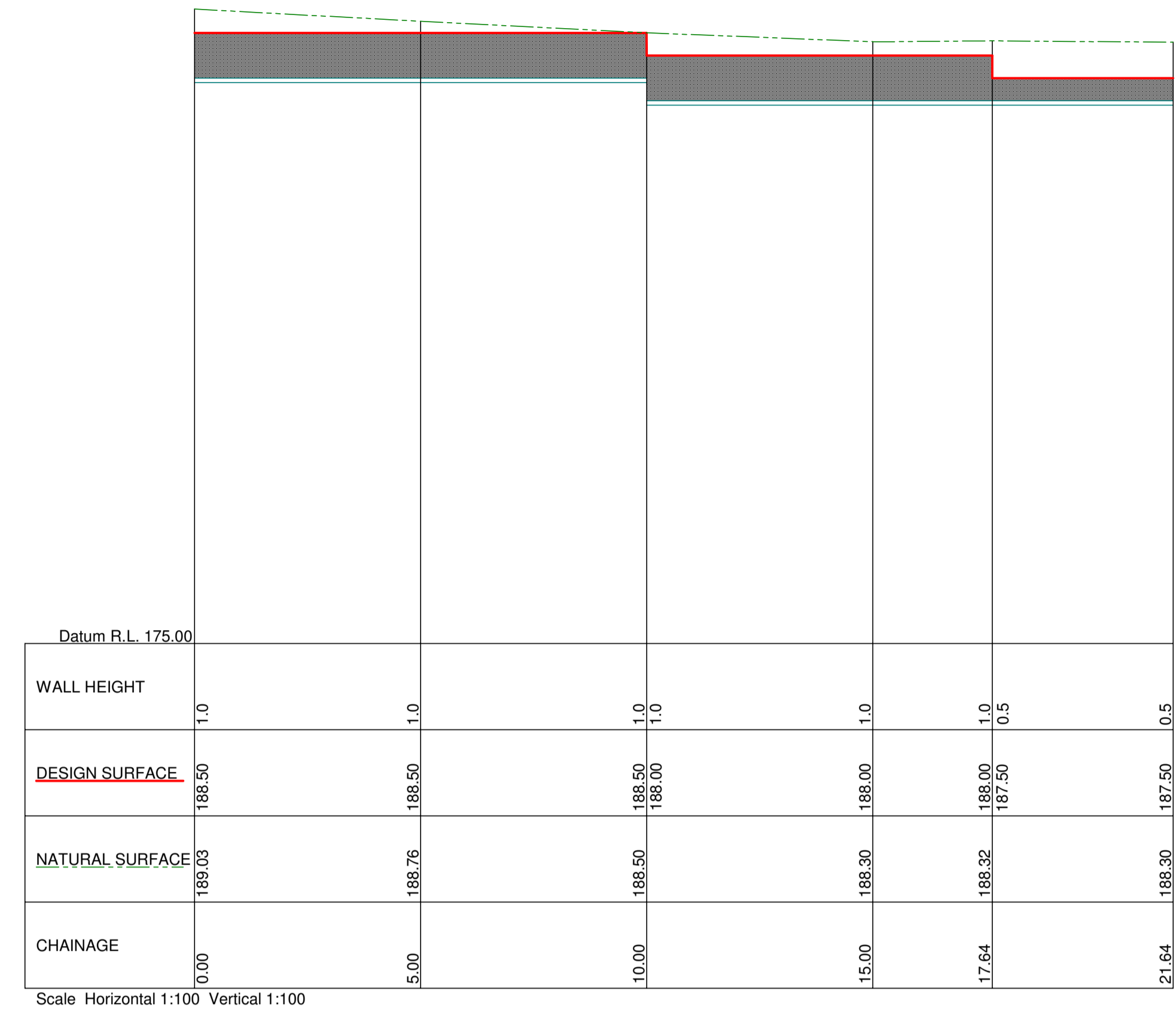
NOTE: DIMENSIONS AND AREAS ARE SUBJECT TO FINAL SURVEY

SCALE: 1:300 SHEET 16 OF 20 REV. A REF.No. S.15696

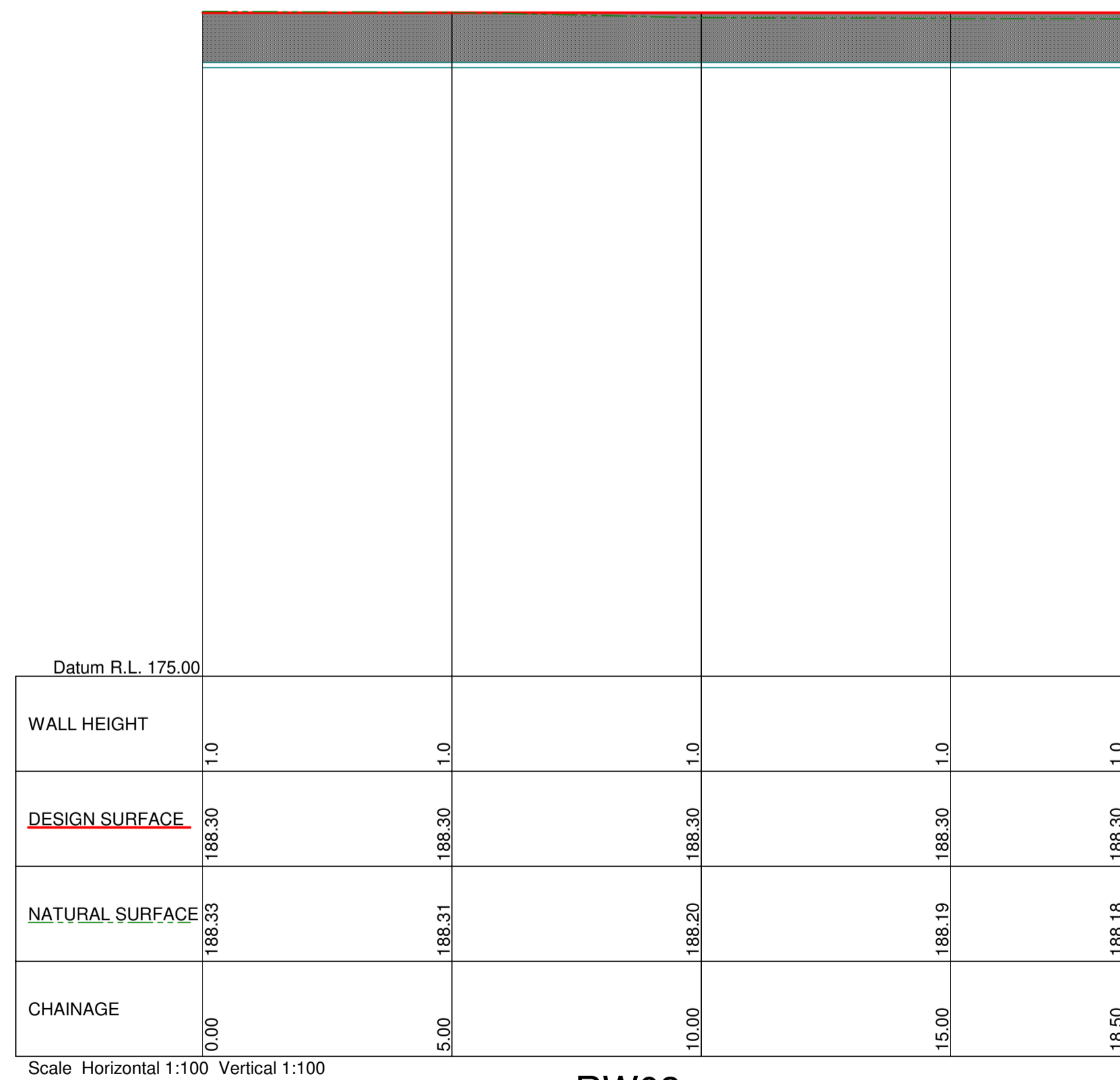
RETAINING WALL LONGITUDINAL SECTION PLAN



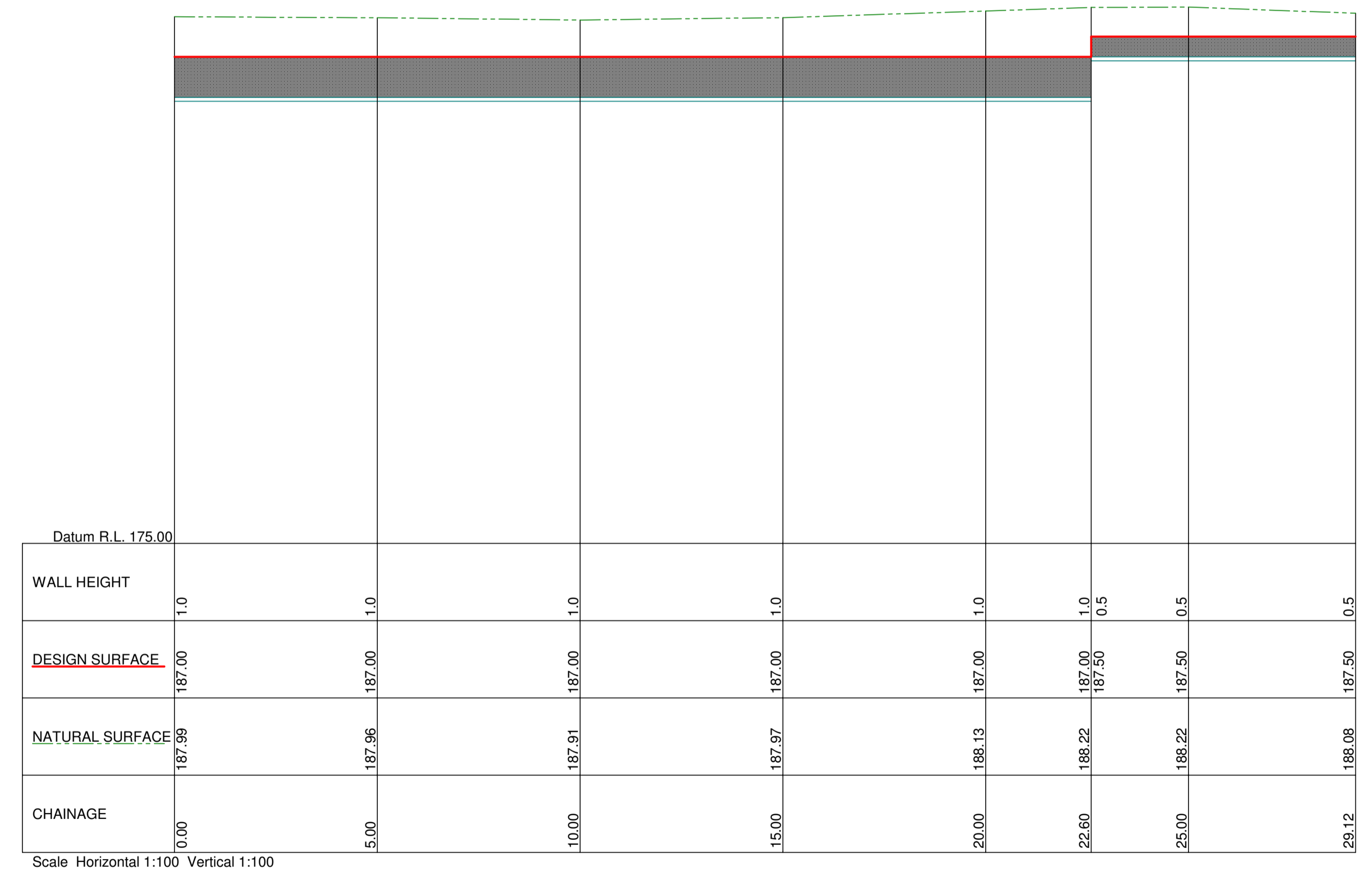
RW01



RW02



RW03



RW04

Scale Horizontal 1:100 Vertical 1:100

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REV	DATE	DESCRIPTION	REV. BY
A	05-03-24	ISSUE FOR COUNCIL SUBMISSION	S.T.

**PLAN OF PROPOSED CIVIL WORKS FOR APPROVED
 DA/1146/2020/A FOR LOT 18 IN D.P. 16975
 90-92 FRANKLIN ROAD - CHERRYBROOK**

LGA : HORNSBY
 DATUM: A.H.D.

DATE: 04-03-2024
 CAD: S15696 SWC

NOTE:
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 SUBJECT TO FINAL SURVEY

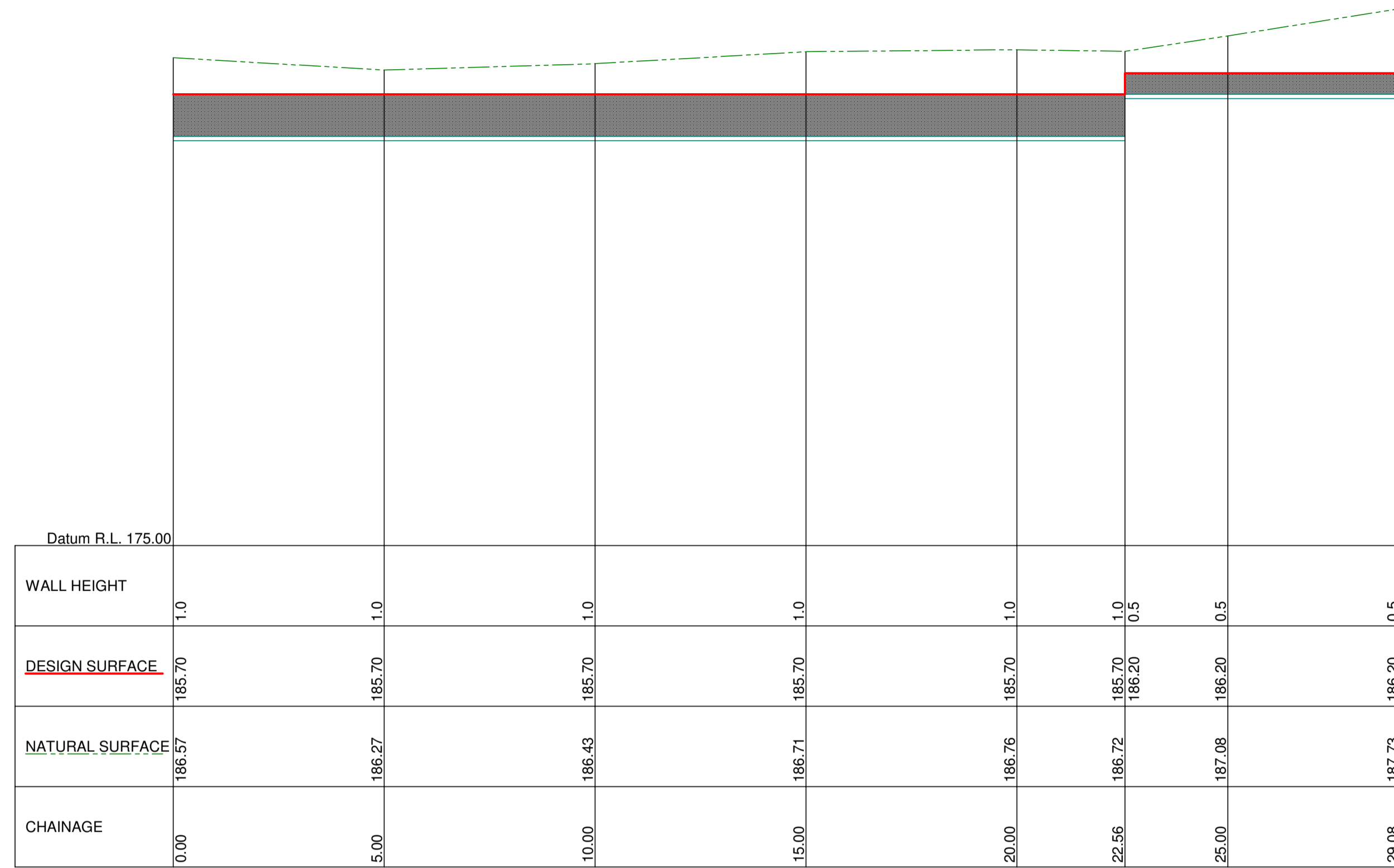
SCALE: 1:300

(A1)

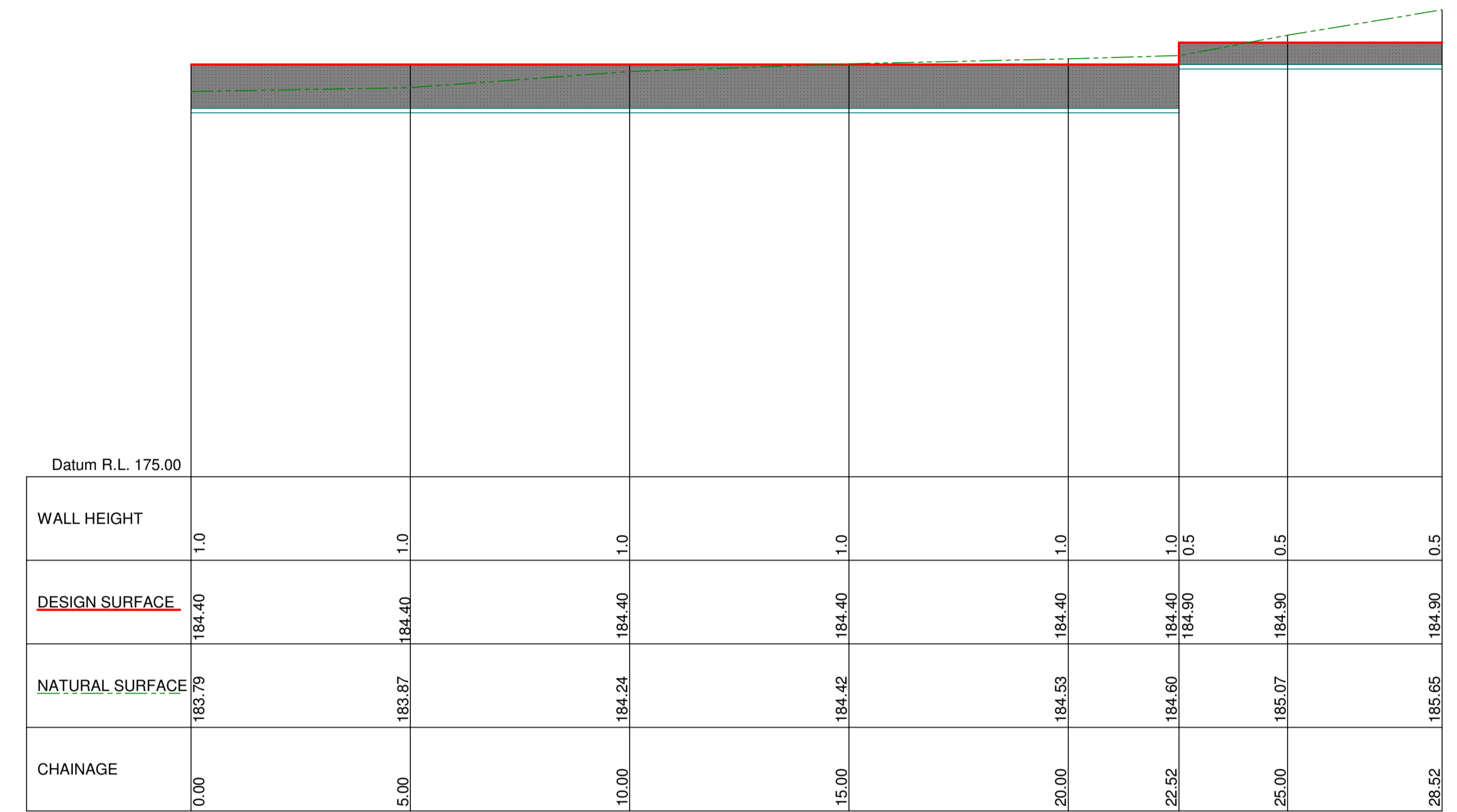
SHEET 17 OF 20 REV. A

REF.No. **S.15696**

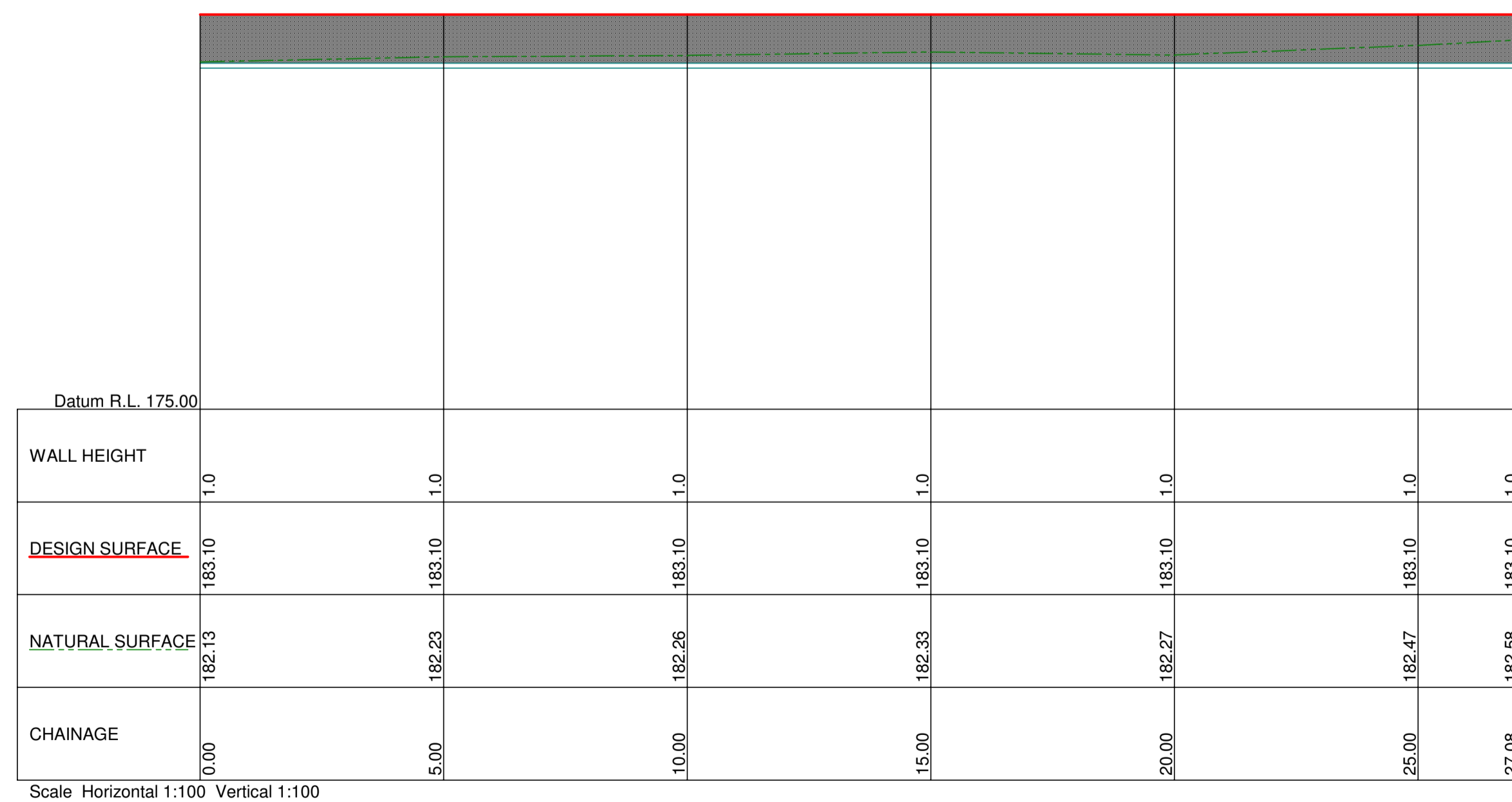
RETAINING WALL & SHARED PATH LONGITUDINAL SECTION PLAN



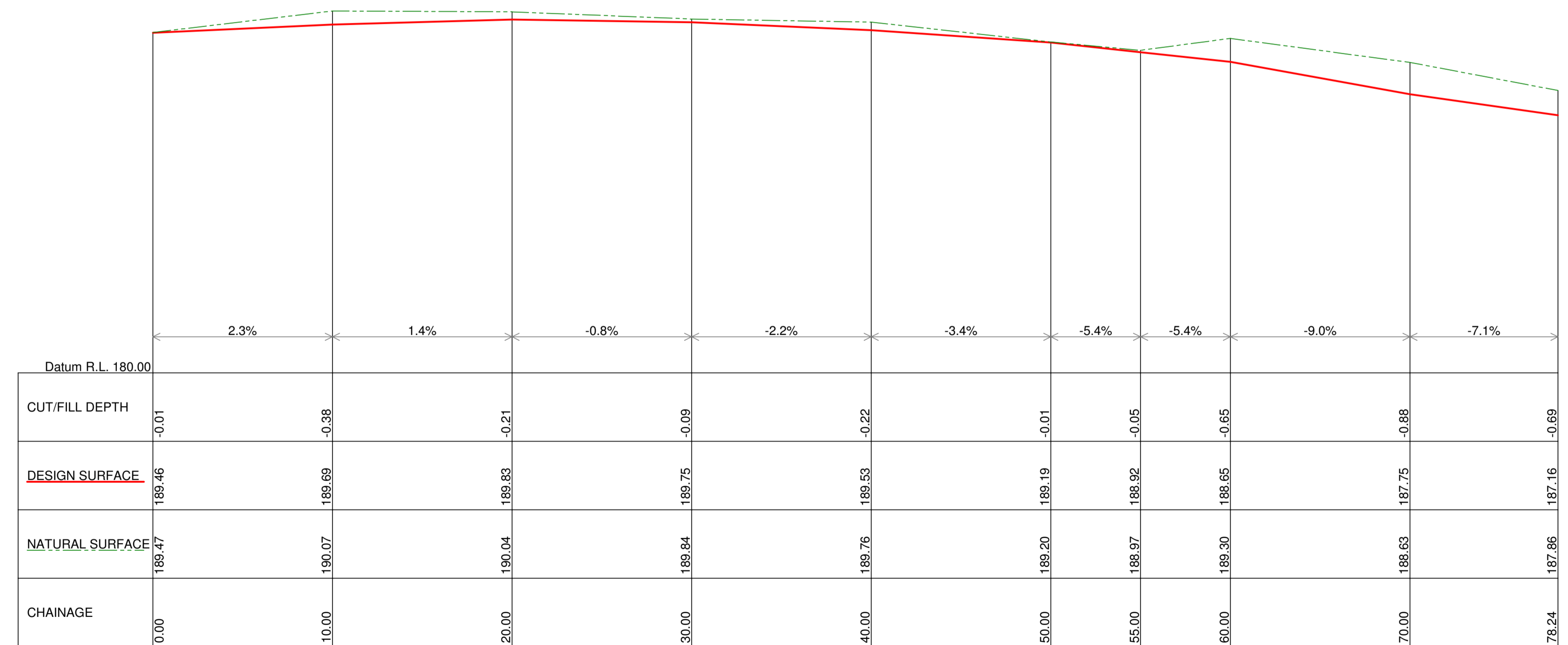
RW05



RW06



RW07



LONGITUDINAL SECTION PLAN FOR SHARED PATH

Scale Horizontal 1:100 Vertical 1:100

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REV	DATE	DESCRIPTION	REV. BY
B	09-07-24	SHARED PATH LONG SECTION ADDED	S.T.
A	05-03-24	ISSUE FOR COUNCIL SUBMISSION	S.T.

**PLAN OF PROPOSED CIVIL WORKS FOR APPROVED
 DA/1146/2020/A FOR LOT 18 IN D.P. 16975
 90-92 FRANKLIN ROAD - CHERRYBROOK**

LGA : HORNSBY
 DATUM: A.H.D.

DATE: 04-03-2024
 CAD: S15696 SWC

NOTE:
 DIMENSIONS AND AREAS ARE
 SUBJECT TO FINAL SURVEY

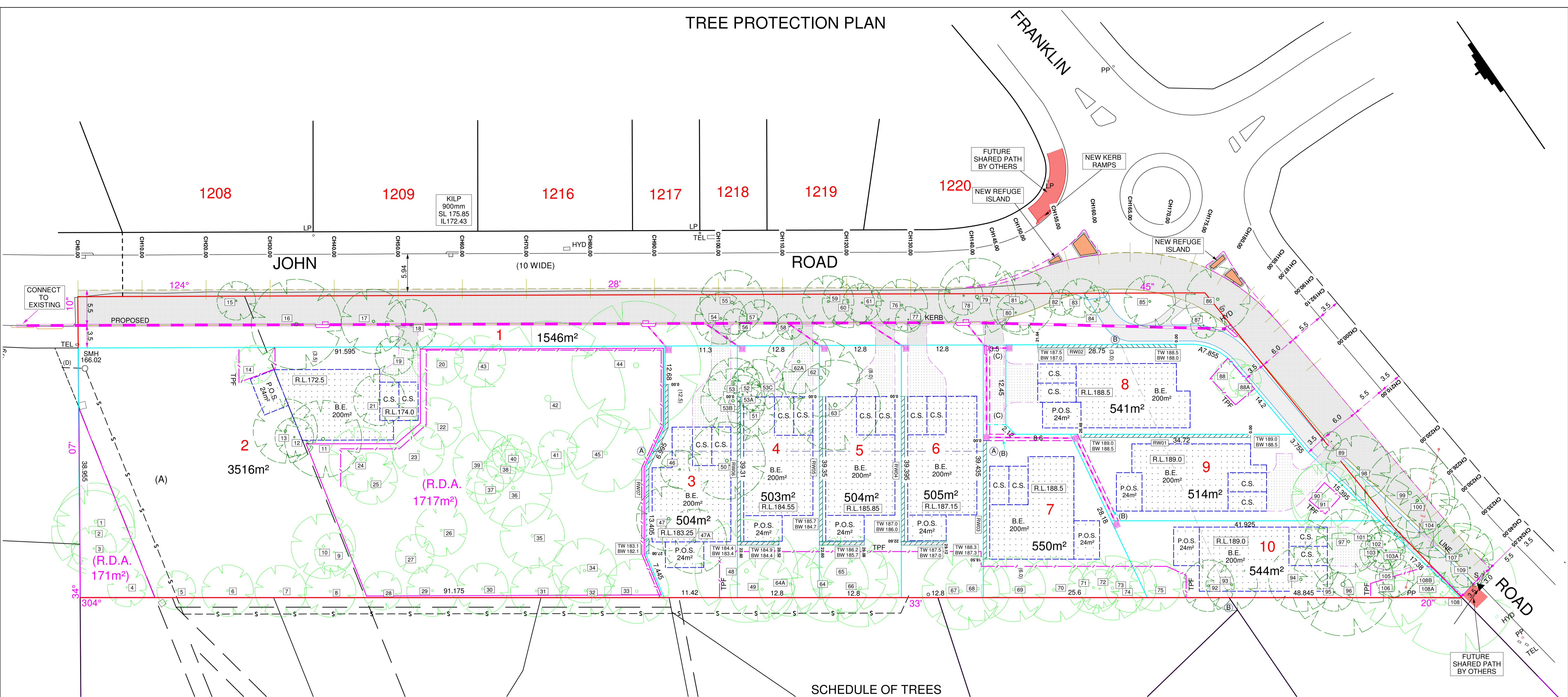
SCALE: 1:300

(A1)

SHEET 18 OF 20 REV. B

REF.No. **S.15696**

TREE PROTECTION PLAN



SCHEDULE OF TREES

No.	DESCRIPTION	DIA. (M)	SPREAD (M)	HEIGHT (M)	COND.
1	TURPENTINE	0.81	12	26	FAIR
2	TURPENTINE	0.55	13	25	FAIR
3	TURPENTINE	0.46	7	25	FAIR
4	TURPENTINE	0.25	6	9	GOOD
5	TURPENTINE	0.4	6	10	FAIR
6	TURPENTINE	0.28	8	7	GOOD
7	TURPENTINE	0.3	8	7	FAIR
8	TURPENTINE	0.32	8	7	FAIR
9	FOREST RED GUM	0.4	6	17	FAIR
10	FOREST RED GUM	0.39	10	19	FAIR
11	FOREST RED GUM	0.63	12	18	GOOD
12	FOREST RED GUM	0.48	6	18	FAIR
13	FOREST RED GUM	0.38	10	17	FAIR
14	SYDNEY BLUE GUM	0.4	6	15	GOOD
15	FOREST RED GUM	0.5	6	25	FAIR
16	FOREST RED GUM	0.7	14	25	FAIR
17	FOREST RED GUM	0.4	10	20	FAIR
18	SYDNEY BLUE GUM	0.5	8	20	FAIR
19	SYDNEY BLUE GUM	0.47	6	18	FAIR
20	FOREST RED GUM	0.43	8	17	GOOD
21	DEAD	0.76	-	-	POOR
22	FOREST RED GUM	0.44	8	18	GOOD
23	FOREST RED GUM	0.42	8	18	GOOD
24	FOREST RED GUM	0.46	10	20	FAIR
25	FOREST RED GUM	0.43	8	18	FAIR
26	FOREST RED GUM	0.85	8	25	GOOD
27	FOREST RED GUM	0.32	6.0	16	FAIR
28	FOREST RED GUM	0.25	6	9	GOOD
29	FOREST RED GUM	0.4	8	10	GOOD
30	FOREST RED GUM	0.44	8	11	GOOD
31	FOREST RED GUM	0.81	12	26	FAIR
32	TURPENTINE	0.42	8	10	GOOD
33	TURPENTINE	0.36	10	9	GOOD
34	FOREST RED GUM	0.43	10	23	GOOD
35	FOREST RED GUM	0.41	10	24	GOOD
36	FOREST RED GUM	0.67	12	25	GOOD
37	GREY BOX	0.18	6	7	FAIR
38	FOREST RED GUM	0.36	6	26	FAIR
39	GREY BOX	0.4	10	17	GOOD
40	FOREST RED GUM	0.41	6	16	FAIR
41	FOREST RED GUM	0.39	6	17	FAIR
42	FOREST RED GUM	1.3	24	26	FAIR
43	FOREST RED GUM	0.4	8	17	GOOD
44	FOREST RED GUM	0.72	20	23	FAIR
45	FOREST RED GUM	0.78	12	28	POOR
46	FOREST RED GUM	0.37	6	16	GOOD
47	FOREST RED GUM	0.52	10	22	GOOD
47A	CLARET ASH	0.24	10	10	GOOD
48	PEPPERCORN	0.33	16	16	FAIR
49	PAPERBARK	0.6	10	16	FAIR
50	EVERGREEN ASH	0.5	12	11	GOOD
51	FOREST RED GUM	0.5	8	19	GOOD
52	FOREST RED GUM	0.33	5	17	FAIR
53	FOREST RED GUM	0.4	8	18	FAIR
53A	FOREST RED GUM	0.3	6	18	FAIR
53B	COOK PINE	0.23	10	13	GOOD
53C	PAPERBARK	0.28	8	16	GOOD
54	TALLOWWOOD	0.3	8	20	FAIR
55	SPOTTED GUM	0.4	10	20	FAIR
56	TALLOWWOOD	0.3	4	20	FAIR
57	TALLOWWOOD	0.4	6	20	FAIR
58	RED IRONBARK	0.3	4	15	FAIR
59	TALLOWWOOD	0.4	8	20	FAIR
60	TALLOWWOOD	0.3	8	15	FAIR
61	FOREST RED GUM	0.4	6	20	FAIR
62	LEMONG SCENTED GUM	0.59	12	23	GOOD
62A	JACARANDA	0.18	10	9	GOOD
63	LEMONG SCENTED GUM	0.79	14	25	FAIR
64	FOREST RED GUM	0.6	12	21	GOOD
64A	SOUR GUM	0.19	10	7	FAIR
65	GOLDEN ELM	0.3	12	7	FAIR
66	TALLOWWOOD	0.69	12	20	GOOD
67	PAPERBARK	0.55	12	18	GOOD
68	PAPERBARK	0.45	10	16	GOOD
69	PAPERBARK	0.48	10	18	GOOD
70	PAPERBARK	0.45	10	17	GOOD
71	PAPERBARK	0.45	8	17	GOOD
72	PAPERBARK	0.23	6	13	GOOD
73	PAPERBARK	0.6	10	17	GOOD
74	PAPERBARK	0.3	8	14	FAIR
75	PAPERBARK	0.37	8	15	GOOD
76	WHITE SALLY WATTLE	0.4	8	20	FAIR
77	BLACKBUTT	0.3	4	20	FAIR
78	SPOTTED GUM	0.3	6	15	FAIR
79	SYDNEY BLUE GUM	0.5	12	20	FAIR
80	WHITE GUM	0.3	6	15	FAIR
81	FLOODED GUM	0.5	10	25	FAIR
82	WILLOW BOTTLEBRUSH	0.3	4	13	FAIR
83	SPOTTED GUM	0.4	6	15	FAIR
84	WILLOW BOTTLEBRUSH	0.3	4	7	FAIR
85	FOREST RED GUM	0.5	8	20	FAIR
86	FOREST RED GUM	0.7	10	30	FAIR
87	CYPRESS	0.5	4	15	FAIR
88	CYPRESS	0.38	6	16	GOOD
88A	GOLDEN ELM	0.18	5	7	FAIR
89	RED IRONBARK	0.3	3	12	FAIR
90	LEMONG SCENTED GUM	0.44	10	20	FAIR
91	LEMONG SCENTED GUM	0.25	12	16	FAIR
92	PAPERBARK	0.32	8	16	GOOD
93	PAPERBARK	0.41	8	15	FAIR
94	FIDDLEWOOD	0.26	10	14	GOOD
95	TURPENTINE	0.4	6	14	FAIR
96	SYDNEY BLUE GUM	0.75	16	18	POOR
97	EVERGREEN ASH	0.3	10	9	FAIR
98	TALLOWWOOD	0.4	10	15	FAIR
99	YELLOW BLOODWOOD	0.8	14	25	FAIR
100	YELLOW BLOODWOOD	0.6	10	25	FAIR
101	FOREST RED GUM	0.65	20	28	GOOD
102	TURPENTINE	0.2	6	10	GOOD
103	LEMONG SCENTED GUM	0.19	6	15	FAIR
103A	LEMONG SCENTED GUM	0.22	6	17	FAIR
104	YELLOW BLOODWOOD	0.5	10	25	FAIR
105	LEMONG SCENTED GUM	0.28	6	25	FAIR
106	GREY IRONBARK	0.35	12	17	GOOD
107	YELLOW BLOODWOOD	0.5	10	25	FAIR
108	FLOODED GUM	0.88	20	30	GOOD
108A	LEMONG SCENTED GUM	0.18	4	16	FAIR
108B	LEMONG SCENTED GUM	0.16	4	17	FAIR
109	WHITE SALLY WATTLE	0.3	6	10	FAIR

TREES APPROVED FOR REMOVAL:
 11,12,13,15,16,17,18,19,21,46,47,47A,50,51,52
 53,53A,53B,53C,54,55,56,57,58,59,60,61,62,62A
 63,76,77,78,79,80,81,82,83,84,84A,85,86,89,92,93,94
 95,96,97,98,99,100,101,102,103,103A,104,105,107,109

TREES TO BE RETAINED:
 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 20, 22, 23, 24,
 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36,
 37, 38, 39, 40, 41, 42, 43, 44, 45, 48, 49, 64,
 64A, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75,
 88, 88A, 90, 91, 106, 108, 108A & 108B

🌳 TREES TO BE RETAINED
 🌳 TREES TO BE REMOVED

TPF DENOTES TREE PROTECTION FENCE

RDA TO BE FENCED OFF WITH TEMPORARY SITE FENCING TO EXCLUDE ENTRY

R.D.A. DENOTES PROPOSED RESTRICTED DEVELOPMENT AREA

TOTAL SITE AREA - 9228m²

(A) EASEMENT FOR TRANSMISSION LINE 30.48 WIDE (D.P. 444349) VIDE J5360
 (B) PROPOSED EASEMENT TO DRAIN WATER 1 WIDE
 (C) PROPOSED RIGHT OF ACCESS & EASEMENT TO DRAIN WATER 3.5 WIDE
 (D) EASEMENT TO DRAIN WATER VARIABLE WIDTH (D.P.828271)

Notes:-

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PLAN OF PROPOSED CIVIL WORKS FOR APPROVED DA/1146/2020/A FOR LOT 18 IN D.P. 16975 90-92 FRANKLIN ROAD - CHERRYBROOK

LGA : HORNSBY
 DATUM: A.H.D.

DATE: 04-03-2024
 CAD: S15696 SWC

NOTE: DIMENSIONS AND AREAS ARE SUBJECT TO FINAL SURVEY

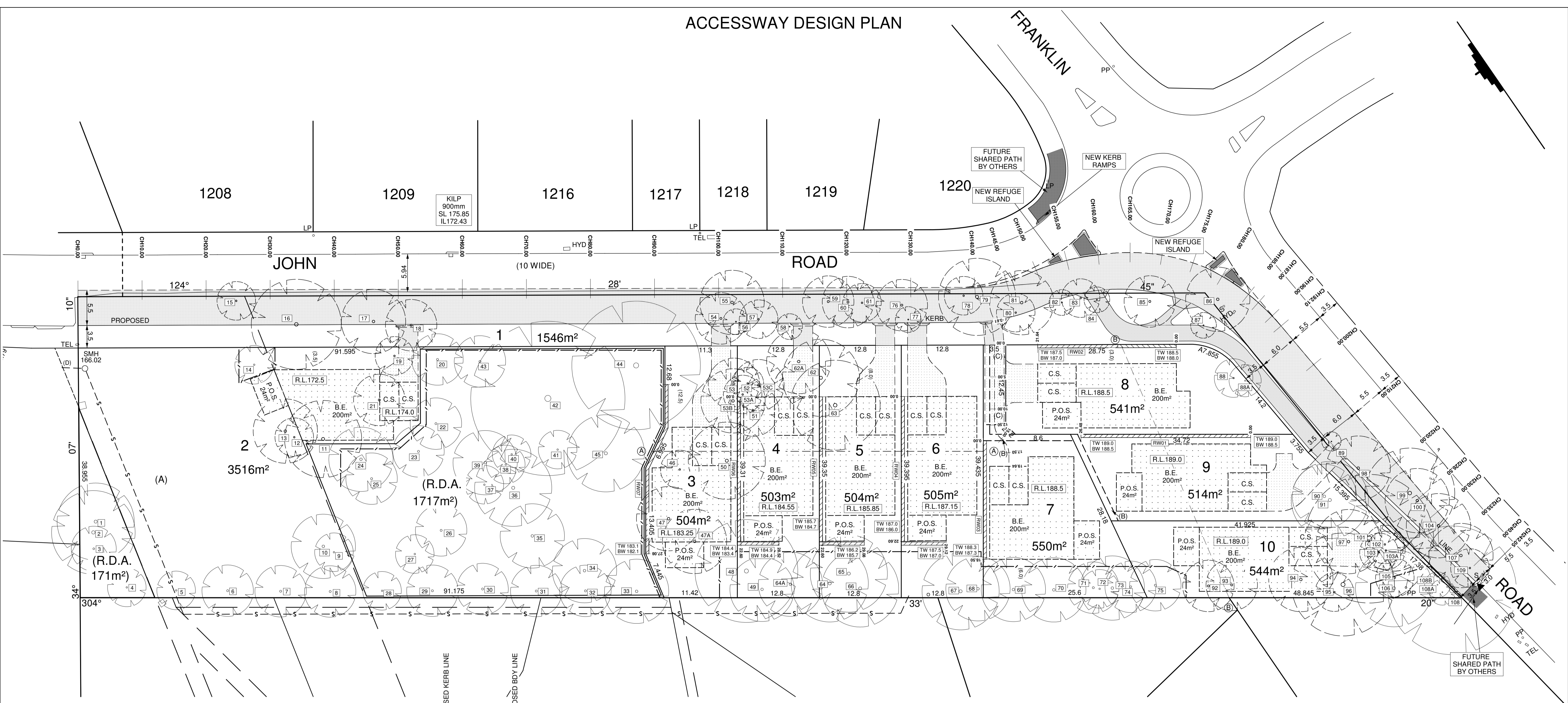
SCALE: 1:300

SHEET 19 OF 20 REV. B

REF.No. S.15696



ACCESSWAY DESIGN PLAN



CONTRACTOR TO PROVIDE SERVICE CONDUITS FOR EACH NEW LOT:

- 50mm UPVC POWER CONDUIT
- 32mm POLY WATER CONDUIT
- 32mm POLY GAS CONDUIT
- 25mm NBN CONDUIT
- 100mm UPVC SPARE CONDUIT

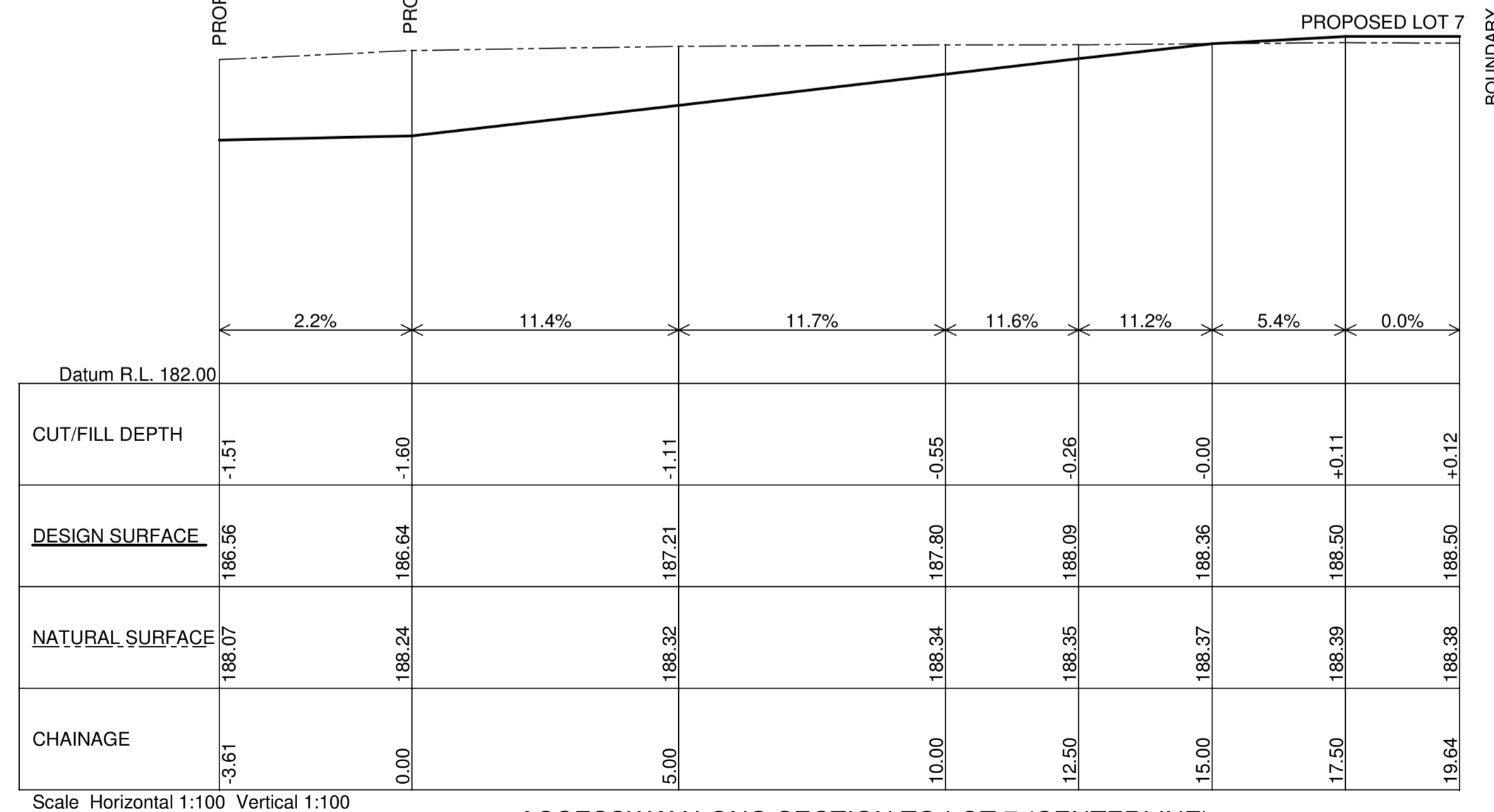
A CERTIFICATE FROM A LICENCED CONTRACTOR WILL BE REQUIRED UPON COMPLETION. ALL SERVICE CONDUITS TO HAVE 600mm COVER.

RDA TO BE FENCED OFF WITH TEMPORARY SITE FENCING TO EXCLUDE ENTRY

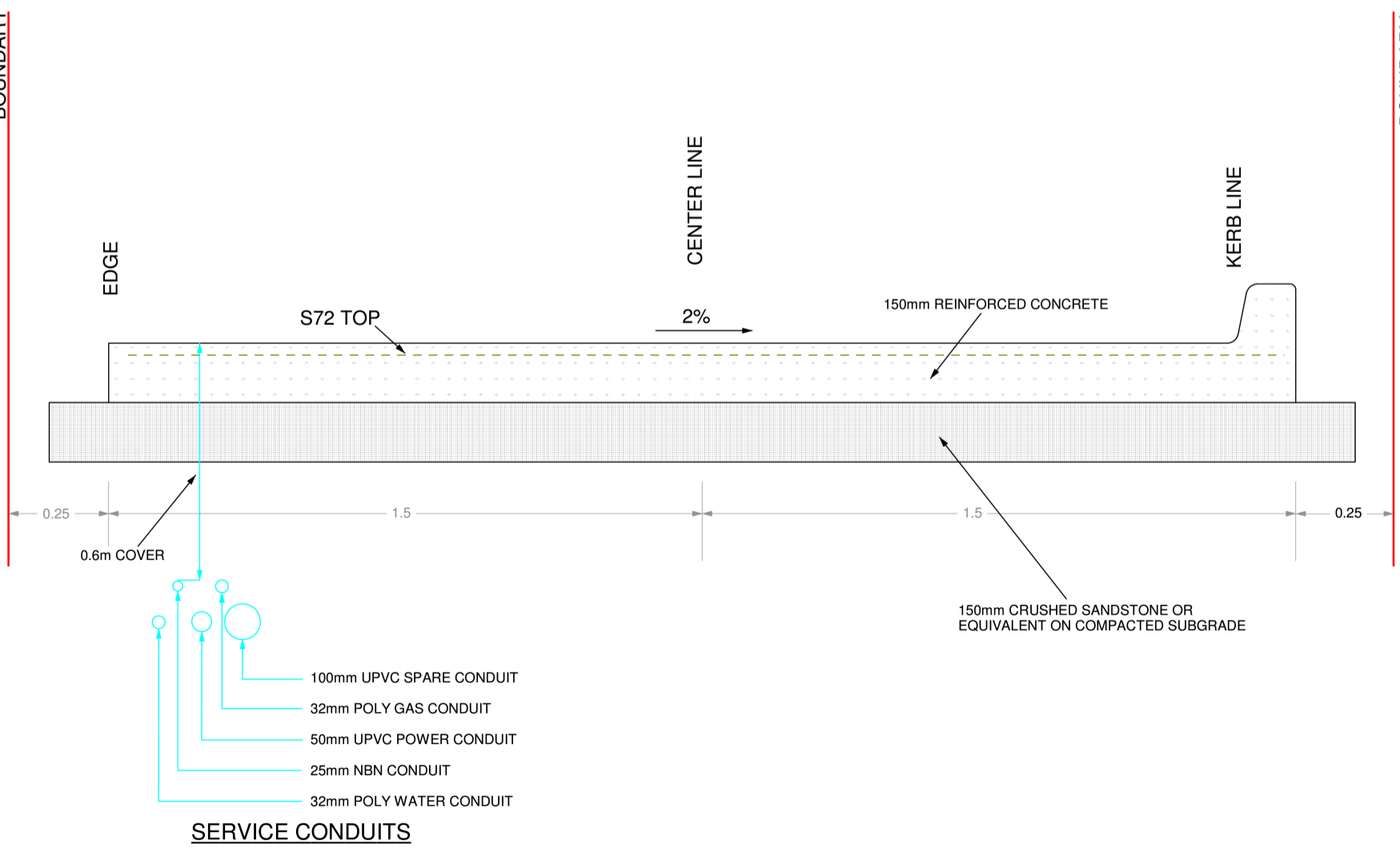
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- (C) PROPOSED RIGHT OF ACCESS & EASEMENT TO DRAIN WATER 3.5 WIDE
- (D) EASEMENT TO DRAIN WATER VARIABLE WIDTH (D.P. 828271)



ACCESSWAY LONG SECTION TO LOT 7 (CENTERLINE)



TYPICAL PAVEMENT DETAIL

- TREES APPROVED FOR REMOVAL:
- 11, 12, 13, 15, 16, 17, 18, 19, 21, 46, 47, 47A, 50, 51, 52
 - 53, 53A, 53B, 53C, 54, 55, 56, 57, 58, 59, 60, 61, 62, 62A
 - 63, 76, 77, 78, 79, 80, 81, 82, 83, 84, 84.85, 86, 89, 92, 93, 94
 - 95, 96, 97, 98, 99, 100, 101, 102, 103, 103A, 104, 105, 107, 109

- TREES TO BE RETAINED
- TREES TO BE REMOVED

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PLAN OF PROPOSED CIVIL WORKS FOR APPROVED DA/1146/2020/A FOR LOT 18 IN D.P. 16975 90-92 FRANKLIN ROAD - CHERRYBROOK

LGA : HORNSBY
 DATUM: A.H.D.

DATE: 04-03-2024
 CAD: S15696 SWC

NOTE: DIMENSIONS AND AREAS ARE SUBJECT TO FINAL SURVEY



SCALE: 1:300

SHEET 20 OF 20 REV. A

REF.No. S.15696