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| 1100E-00D-00 | ouldly in Dooigh |

WARNING

BEWARE OF UNDERGROUND SERVICES The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works DIAL 1100 BEFORE YOU DIG www.1100.com.au

| SIDE SOUTH | OFFSET (m) 1.85 | SIDE | OFFSET (m) | SIDE | OFFSET (m) | CIDE | | | | |
|--|--------------------|--|--|---|--|--|---|---|--|--|
| | 1.85 | | | 5.02 | | SIDE | OFFSET (m) | SIDE | OFFSET (m) | |
| | | SOUTH | 2.55 | SOUTH | 3.05 | SOUTH | 4.10 | SOUTH | 3.50 | |
| NORTH | 2.10 | NORTH | 2.60 | NORTH | 3.10 | SOUTH | 6.95 | SOUTH | 6.25 | |
| NORTH | 2.10 | NORTH | 2.60 | NORTH | 3.10 | SOUTH | 2.70 | SOUTH | 1.85 | |
| EAST | 2.10 | EAST | 2.60 | EAST | 3.10 | WEST | 4.30 | WEST | 3.60 | |
| EAST | 2.10 | EAST | 2.80 | EAST | 3.30 | WEST | 4.30 | WEST | 3.60 | |
| OLIVINE BOULEVARD (NORTH OF INTERSECTION) EAST 2.10 EAST 2.80 EAST 3.30 WEST 4.30 WEST 3.60 * STREET TREES TO BE INSTALLED IN THE CENTRE OF NATURE STRIPS AND MEDIANS UNLESS DIRECTED OTHERWISE BY COUNCIL 0 <t< td=""></t<> | | | | | | | | | | |
| | DES/E | FT APPROVAL | All setting out should be carried out in accordance with MPA/Council's | | | A/Council's | TITLE | NAME | | |
| - | EAST EAST | NORTH 2.10 EAST 2.10 EAST 2.10 URE STRIPS AND MEDIANS U | NORTH2.10NORTHEAST2.10EASTEAST2.10EASTURE STRIPS AND MEDIANS UNLESS DIRECTED | NORTH2.10NORTH2.60EAST2.10EAST2.60EAST2.10EAST2.80URE STRIPS AND MEDIANS UNLESS DIRECTED OTHERWISE BY | NORTH2.10NORTH2.60NORTHEAST2.10EAST2.60EASTEAST2.10EAST2.80EASTURE STRIPS AND MEDIANS UNLESS DIRECTED OTHERWISE BY COUNCIL | NORTH2.10NORTH2.60NORTH3.10EAST2.10EAST2.60EAST3.10EAST2.10EAST2.80EAST3.30URE STRIPS AND MEDIANS UNLESS DIRECTED OTHERWISE BY COUNCIL | NORTH2.10NORTH2.60NORTH3.10SOUTHEAST2.10EAST2.60EAST3.10WESTEAST2.10EAST2.80EAST3.30WESTURE STRIPS AND MEDIANS UNLESS DIRECTED OTHERWISE BY COUNCIL | NORTH2.10NORTH2.60NORTH3.10SOUTH2.70EAST2.10EAST2.60EAST3.10WEST4.30EAST2.10EAST2.80EAST3.30WEST4.30URE STRIPS AND MEDIANS UNLESS DIRECTED OTHERWISE BY COUNCIL | NORTH2.10NORTH2.60NORTH3.10SOUTH2.70SOUTHEAST2.10EAST2.60EAST3.10WEST4.30WESTEAST2.10EAST2.80EAST3.30WEST4.30WESTURE STRIPS AND MEDIANS UNLESS DIRECTED OTHERWISE BY COUNCIL | |

| | | AS CONSTRUCTED | | | Global-Mark.com.au® | Global-Mark.com.au® | Global-Mark.com.au® | REFERENCE No. 1 REFERENCE No. 2 | | |
|-----|----------------------|--|----------------|----------|-----------------------|--|------------------------|------------------------------------|----------------------|---|
| 3 | 21.02.20 | AS CONSTRUCTED | SM/SM | AB | in Manayerinent in og | Saugement. Activity | E ental Marrayement | CHECKED | Z.Gosev A.Burrows | _ |
| 2 | 05.09.19 | SERVICES OFFSET TABLE AMENDED | ZG/MA | AB | only. Any discrepanc | es should be discussed wi | th the superintendent. | DESIGNER | S.MacLaren | |
| 0 | 14.06.19 06.08.19 | ISSUED FOR CONSTRUCTION SERVICES OFFSET TABLE AMENDED | SM/RB KM/KM | AB AB | | r as nominated on hard co ormation supplied by this o | DRAFTER | R.Barua | | |
| REV | DATE | AMENDMENT / REVISION DESCRIPTION | DES/DFT | APPROVAL | | be carried out in accordan | | TITLE | NAME | |

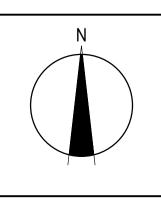
Olivine Estate Stage 5B

0 5 10 20 Scale 1:500 SCALE AS SHOWN AT A1

ROAD NAME

HAYES HILL BOULEVARD

OLIVINE BOULEVARD





ROAD LAYOUT TABLE

LIP to LIP

11.10

5.10

RESERVE

WIDTH (m)

30.00

22.00

ROAD WIDTH (m)

12.00

6.00

INV to INV BACK to BACK NTH/WEST

12.30

6.30



KERB TYPE

B2

B2

STH/EAST

B2

B2

GENERAL NOTES (WHITTLESEA CITY COUNCIL)

| 1. | THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE VPA MANUAL AND SPECIFICATIONS. WORKS TO BE |
|----|---|
| | CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER. |
| 2. | THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION |
| | THEY SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, |
| | SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC |
| | FROM HAZARDS ASSOCIATED WITH THE WORKS. |
| | |

- THE CONTRACTOR SHALL:
 COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
 NOTIFY THE OCCUPATIONAL USED THAN D SAFETY AUTHORITY OF HIS INTENTION TO COMMENCE TRENCHING.
- 3.2. NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
 3.3. ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN
- TRENCHING OPERATIONS ARE IN PROGRESS.
 4. THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVENT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- REDGUM TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED IN ACCORDANCE WITH COUNCIL'S PLANNING PERMIT. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY EXISTING TREE WITHOUT WRITTEN APPROVAL FROM COUNCIL'S SUPERVISING OFFICER.
 ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEADS,
- WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.
 8. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- 9. WHEN ENGAGED IN BLASTING OPERATIONS THE CONTRACTOR SHALL NOT BLAST WITHIN 4.5m OF AN EXISTING LINE OF WATER, GAS OR SEWER PIPES OR WITHIN 15m OF ANY COMPLETED PART OF THE WORKS WITHOUT THE CONSENT OF THE SUPERINTENDENT. BLASTING REQUIRES A BLASTING PERMIT FROM COUNCIL.
- 10. ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVES TO BE STRIPPED OF TOPSOIL AND STOCKPILED PRIOR TO EARTHWORKS COMMENCING. THESE AREAS SHALL BE SURFACED WITH A 100mm MINIMUM TO 200mm MAXIMUM LAYER OF TOPSOIL AS SPECIFIED.
- 11. NO TOPSOIL TO BE REMOVED FROM SITE.
- 12. NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE UNLESS DIRECTED BY THE
- SUPERINTENDENT. 13. FILLING ON ALLOTMENTS AND UNDER ROAD PAVEMENTS TO HAVE LEVEL 1 SUPERVISION IN ACCORDANCE WITH
- AS3798-1996. INDIVIDUAL LOT CERTIFICATES ARE TO BE PROVIDED TO THE SUPERINTENDENT. 14. FILLING UNDER DRIVEWAYS AND FOOTPATH IS TO BE APPROVED BY THE SUPERINTENDENT AND CONSTRUCTED IN LAYERS 150mm DEPTH. COMPACTION ACHIEVING 98% AUSTRALIAN STANDARD DENSITY.
- 15. CUT AND FILL BATTERS ARE NOT TO EXCEED 1 in 6 UNLESS SHOWN OTHERWISE.
- 16. ALLOTMENTS TO BE GRADED TO ENSURE A MINIMUM GRADE OF 1 in 150.
- ALL DRAINAGE PIPES UP TO AND INCLUDING 750mm IN DIAMETER SHALL BE RUBBER RING JOINTED. PIPES ABOVE THIS SIZE MUST BE FLUSH JOINTED WITH EXTERNAL SEALING BANDS.
 ALL DRAINAGE TRENCHES UNDER ROAD PAVEMENTS, KERB & CHANNEL, PARKING BAYS, DRIVEWAYS, FOOTPATHS AND
- ALL DRAINAGE TRENCHES UNDER ROAD PAVEMENTS, RERB & CHANNEL, PARKING BATS, DRIVEWATS, FOOTPATHS AND BEHIND KERBS & CHANNEL SHALL BE BACKFILLED WITH CRUSHED ROCK AS SPECIFIED.
 ALL PITS GREATER THAN OR EQUAL TO 900mm DEPTH TO BE PROVIDED WITH STEP IRONS IN ACCORDANCE WITH
- ALL PHI'S GREATER THAN OR EQUAL TO 900mm DEPTH TO BE PROVIDED WITH STEP IRONS IN ACCORDANCE WITH SD1041 AND COUNCIL STANDARD DRAWING EDCM 609
 PROPERTY INLETS AS PER WHITTLESEA CITY COUNCIL STANDARD DRAWING EDCM 701-704 AND ARE TO BE LOCATED
- 1.0m FROM LOW SIDE BOUNDARY UNLESS SHOWN OTHERWISE.
 ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAN 7.0m FROM THE SIDE BOUNDARY OR FROM EASEMENT ALONG THE SIDE BOUNDARY UNLESS NOTED OTHERWISE AND CONNECTED DIRECTLY TO UNDERGROUND DRAIN OR PIT. HOUSE DRAIN LOCATION TO BE MARKED (50mm STAMPED IMPRESSION) ON THE TOP OF THE KERB.
- SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL AS PER STANDARD DRAWING EDCM 202.
- 23. CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. CONDUITS TO BE EXTENDED TO PROPERTY LINE AND ARE REQUIRED WHEN CONNECTIONS EXTEND UNDER ROAD PAVEMENT, FOOTPATH OR OTHER INFRASTRUCTURE. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS H (PROPERTY STORMWATER CONNECTION), E (ELECTRICAL), G (GAS), T (TELEPHONE), W (WATER) AND C (COUNCIL COMMUNICATION) AS PER STANDARD DRAWING EDCM 303.
- ALL SERVICING TRENCHES UNDER ROADS, DRIVEWAYS, FOOTPATHS ETC. ARE TO BE BACKFILLED & COMPACTED WITH F.C.R. IN THE CASE OF TRENCHES UNDER ROADS WHERE BACKFILLING HAS NOT ACHIEVED THE SPECIFIED COMPACTION OR SHOWS EXCESSIVE MOVEMENT UNDER PROFFROLLING, THE BACKFILLING SHALL BE REMOVED AND REPLACED WITH 2% STABILISED COMPACTED F.C.R. ALL SERVICES ARE TO BE PLACED PRIOR TO THE CAPPING LAYER.
 NO TELSTRA PITS ARE TO BE LOCATED IN THE FOOTPATH.
- NO TELSTICATIONS ARE TO BE LOCATED IN THE FOOTFATH.
 VEHICULAR CROSSINGS TO BE LOCATED CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES. VEHICLE CROSSINGS TO BE 1.5m FROM PROPERTY BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN.
 VEHICULAR CROSSINGS TO BE CONSTRUCTED AS PER WHITTLESEA CITY COUNCIL'S SPECIFICATIONS AND EDCM 501 TO 503.
- 27. ALL PEDESTRIAN CROSSING THROUGH SPLITTER ISLANDS TO BE IN ACCORDANCE WITH SD606.
- ALL STREET SIGNS TO BE IN ACCORDANCE WITH SD812. STREET SIGNS TO BE ATTACHED TO LIGHT POLES USING 'SINGLE DIRECTION COLLAR' OR '90° RIGHT ANGLE COLLAR' UNLESS SHOWN OTHERWISE.
 ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHOULD BE TO AS1742.2 AND AS1742.1 STANDARD RESPECTIVELY.
- TEMPORARY LINEMARKING TO BE PLACED DURING MAINTENANCE PERIOD PRIOR TO PLACEMENT OF WEARING COURSE. FINAL LINEMARKING TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
- THE CAPPING LAYER MUST BE DEMONSTRATED THROUGH TESTING THAT ITS PROPERTIES (CBR, PERMEABILITY, ETC.) SATISFY LIMITS AS OUTLINED IN THE TECHNICAL SPECIFICATION TABLE 20.3.5B WITH A MINIMUM MODULAS OF 100MPa.
 UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED UP, GRADED, ALL RUBBISH REMOVED AND LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
- 32. ALL FOOTPATHS & SHARED PATHS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH EDCM 401.

NOTES FOR WORKS UNDER OVERHEAD ELECTRICAL POWERLINES

- 1. MAINTENANCE AND REFUELLING OF VEHICLES AND EQUIPMENT MUST NOT BE CARRIED OUT UNDER POWERLINES
- 2. THE STORAGE OR HANDLING OF FLAMMABLE LIQUIDS OR GASSES IS NOT PERMITTED UNDER POWERLINES
- 3. THE PARKING OF LARGE VEHICLES OR CARAVANS, SITE HUTS OR SIMILIAR IS NOT PERMITTED UNDER POWERLINES
- 4. STOCKPILING OF EXCAVATED MATERIAL IS NOT PERMITTED UNDER POWERLINES

MELWAYS REF

8M2

- 5. VEHICLES AND EQUIPMENT EXCEEDING 3 METRES MAXIMUM OPERATING HEIGHT ARE NORMALLY NOT PERMITTED UNDER AUSNETS POWERLINES. A HIGHER OPERATING HEIGHT LIMIT IS SUBJECT TO SUFFICIENT CLEARANCE TO THE CONDUCTORS AND WRITTEN APPROVAL
- 6. SP AUSNET'S LINES CONTRACT SUPERVISOR MUST BE NOTIFIED AT LEAST 10 WORKING DAYS PRIOR TO THE WORKS COMMENCING SO THAT APPROPRIATE PERMITS CAN BE ARRANGED. ADDITIONAL SAFETY PRECAUTIONS DEEMED NECESSARY WILL BE ADVISED AT THIS TIME. ALL PERSONS COMMENCING WORK ON THE SITE MUST BE MADE AWARE OF PERMIT CONDITIONS AND SAFETY PRECAUTIONS
- 7. ALL WORK IN THE VICINITY MUST BE IN ACCORDANCE WITH THE INDUSTRIES NO GO ZONE REQUIREMENTS AND SP AUSNET MUST BE SATISFIED THAT ALL SUB CONTRACTORS WORKING IN THE AREA IN THE VICINITY OF THE OVERHEAD LINES WORK WITHIN THESE GUIDELINES, INCLUDING THE PROVISION OF A SPOTTER AS REQUIRED.

PROJECT / DRAWING No.

1700E-05B-01

| VERGE WIDTH (m) | | | | | | |
|-----------------|----------|--|--|--|--|--|
| NTH/WEST | STH/EAST | | | | | |
| 6.60 | 11.40 | | | | | |
| 6.45 | 4.95 | | | | | |

Olivine Estate - Stage 5B Whittlesea City Council Road and Drainage Cover Plan

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REVISION

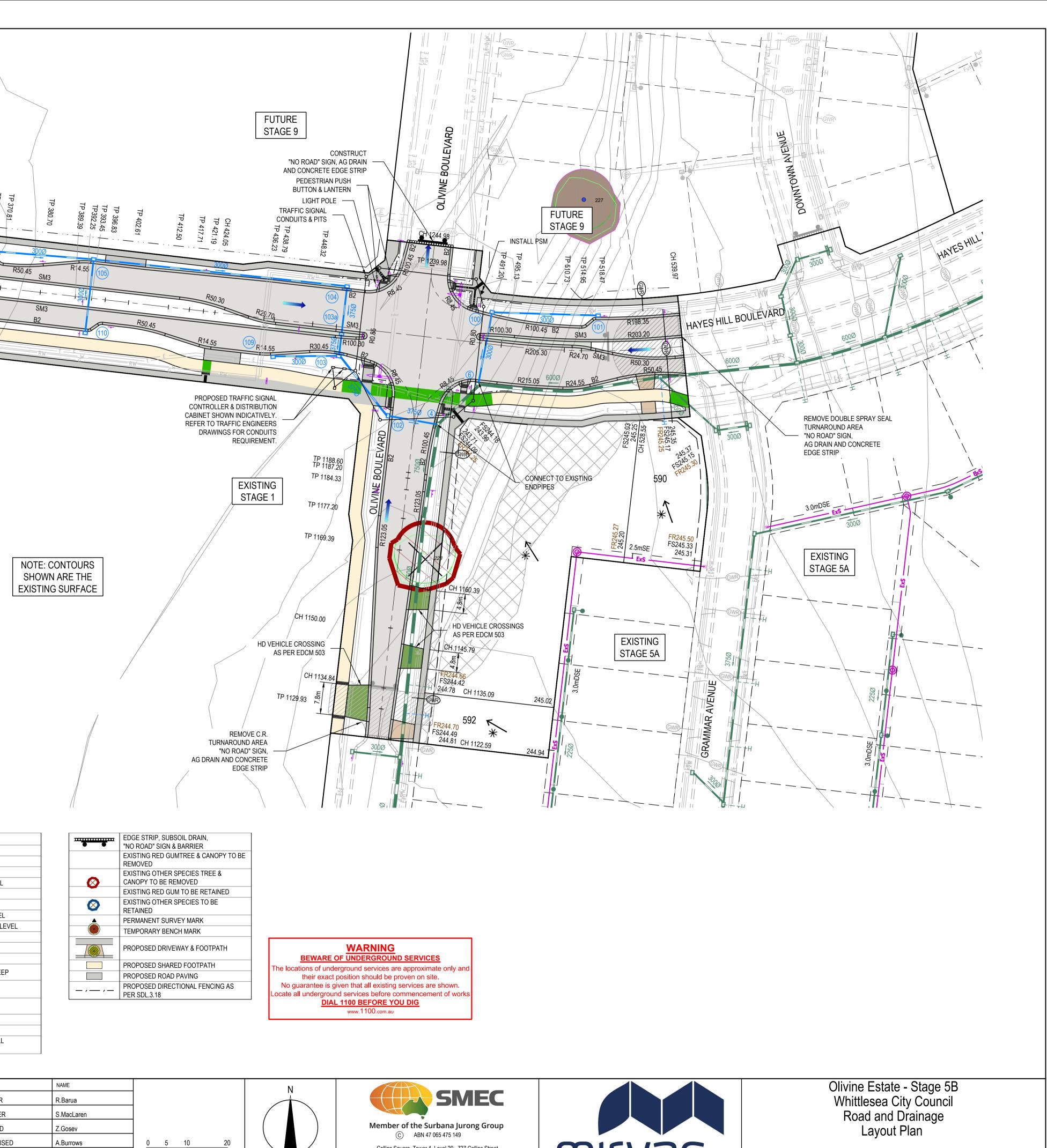
3

| | CH 304.25 | - | |
|--|-----------|---|-----------|
| CONSTRUCT DOUBLE SPRAY SEAL "NO ROAD" SIGN, AG DRAIN AND CONCRETE EDGE STRIP | | B2 B2 B2 B2 B2 B2 B2 B2 B2 B2 B2 B2 B2 B | CH 350.00 |
| | | | |
| | | | |
| | | D | |

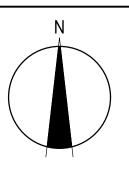
| LEGEND - LAY | | | — — Н | EXISTING HOUSE DRAIN |] [| GWR | FUTURE SERVICE CONDUITS |
|----------------------|---|--|--------|--|-----|---------------|------------------------------|
| ALL PROPOSED, FUTURE | E & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY | ——E× | Е —— | EXISTING ELECTRICITY (UNDER GROUND) | | | FUTURE TACTILE PAVERS |
| | STORMWATER DRAIN, PIT & PROPERTY INLET | ———E× | G —— | EXISTING GAS | | | ZERO LOT LINES |
| | MAIN DRAIN | —————————————————————————————————————— | т —— | EXISTING TELSTRA | | 141.34 | EXISTING SURFACE LEVEL |
| | SWALE DRAIN | ——Ex | W —— | EXISTING WATER | | FS140.35 | FINISHED BUILDING LINE LEVEL |
| \$ = | SEWER & MAINTENANCE STRUCTURES | ——Ex | RW —— | EXISTING RECYCLED WATER | | FR157.40 | FINISHED RIDGE LINE LEVEL |
| H | HOUSE DRAIN | ——Ex./ | Ag —— | EXISTING AG. DRAIN | | CH270.00 | CHAINAGE |
| —— E —— | ELECTRICITY (U.GROUND) | GI | NR | Μ | | TW159.60 | TOP OF RETAINING WALL LEVEL |
| G | GAS | | | EXISTING TACTILE PAVERS | | BW159.00 | BOTTOM OF RETAINING WALL LEV |
| — T — | TELSTRA | Fut | D | FUTURE STORMWATER DRAIN | | | EXISTING RETAINING WALL |
| — w —— | WATER | | | FUTURE MAIN DRAIN | | | RETAINING WALL |
| —— RW —— | RECYCLE WATER | > | > | FUTURE SWALE DRAIN | | | FUTURE RETAINING WALL |
| —— Ag —— | AG. DRAIN | G-FUT | s —— | FUTURE SEWER & MAINTENANCE STRUCTURES | | | STRUCTURAL FILL > 200mm DEEP |
| | TRAFFIC SIGNAL CONDUITS & PITS | | - — —H | FUTURE HOUSE DRAIN | | | EXISTING STRUCTURAL |
| - <u>`-</u> GW | SERVICE CONDUITS | | E | FUTURE ELECTRICITY (UNDER GROUND) | | | FILL > 200mm DEEP |
| | TACTILE PAVERS | Fut | G — | FUTURE GAS | - | $\overline{}$ | CUT > 200mm DEEP |
| | EXISTING STORMWATER DRAIN | Fut | т — | FUTURE TELSTRA | | \rightarrow | DIRECTION OF FALL |
| | EXISTING MAIN DRAIN | ——Fut | W | FUTURE WATER | | | OVERLAND FLOW |
| >> | EXISTING SWALE DRAIN | — Fut | RW | FUTURE RECYCLED WATER | | N/ | GRADED IN DIRECTION OF FALL |
| ӨЕх 5 | EXISTING SEWER & MAINTENANCE STRUCTURES | — Fut | Ag — | FUTURE AG. DRAIN | j l | * | TO LEVEL INDICATED |

| REV | DATE | AMENDMENT / REVISION DESCRIPTION | DES/DFT | APPROVAL | | |
|-----|----------------------|---|----------------|----------|--|---|
| 0 | 14.06.19 | ISSUED FOR CONSTRUCTION | SM/RB | AB | standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information | |
| 1 | 25.07.19 21.02.20 | IRRIGATION CONDUITS REMOVED AS CONSTRUCTED | MA/MA KM/KM | AB AB | only. Any discrepancies should be discussed with the superintendent. DESIGNER S.MacLaren | |
| | | | | | Management of angement Autor and Autor and Autor | |
| | | | | | AUTHORISED A.Burrows | |
| | | AS CONSTRUCTED | | | REFERENCE No. 1 | ļ |
| | | | | | Global-Mark.com.au [®] Global-Mark.com.au [®] Global-Mark.com.au [®] REFERENCE No. 2 | S |
| | | | | | Global-Mark.com.au Global-Mark.com.au Global-Mark.com.au REFERENCE NO. 2 | L |

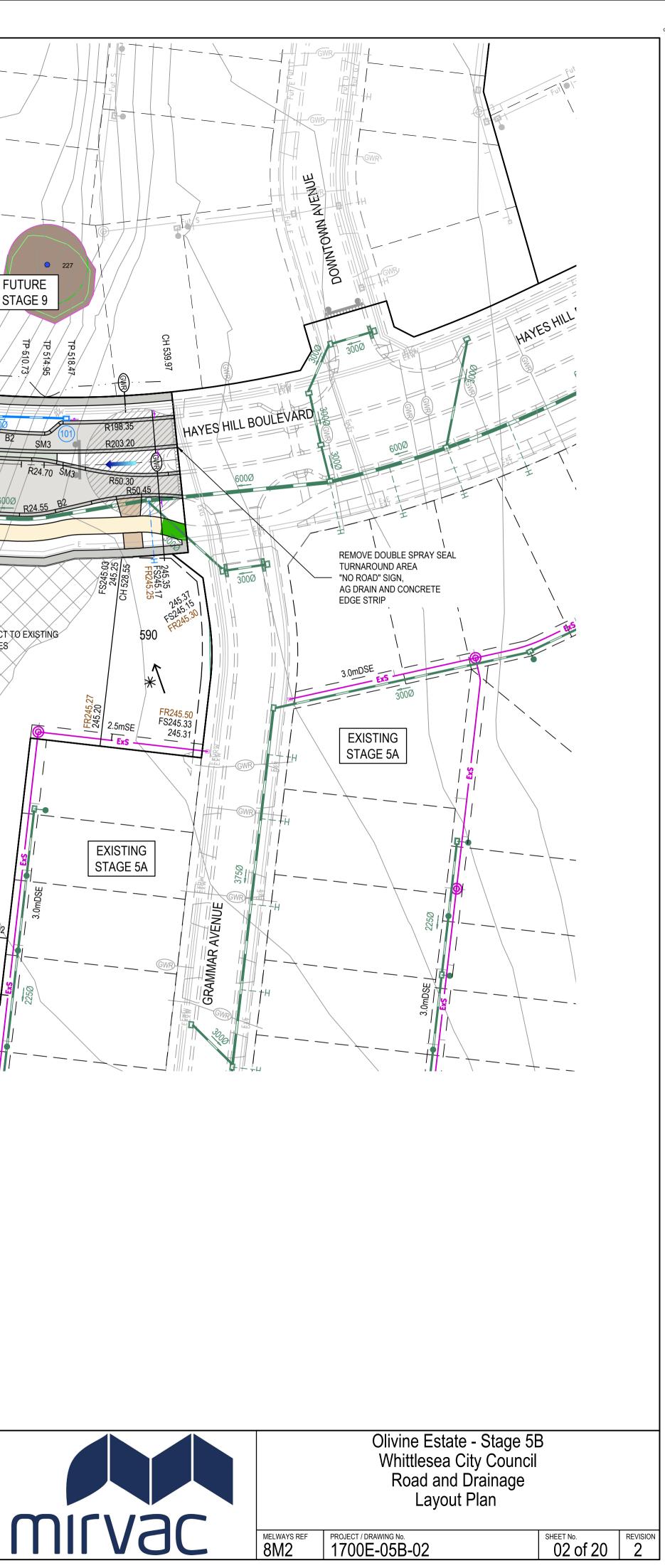
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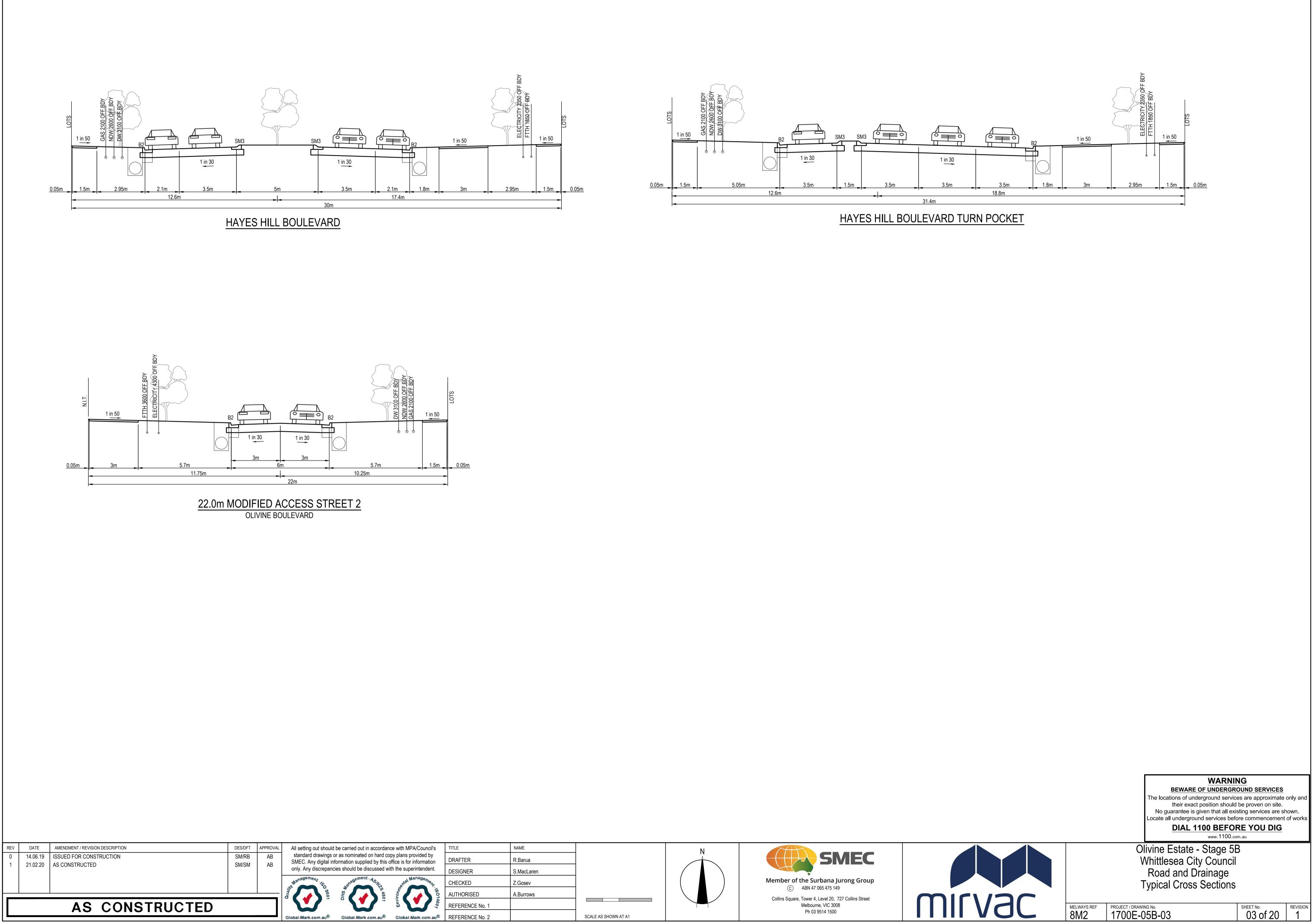


Scale 1:500 SCALE AS SHOWN AT A1

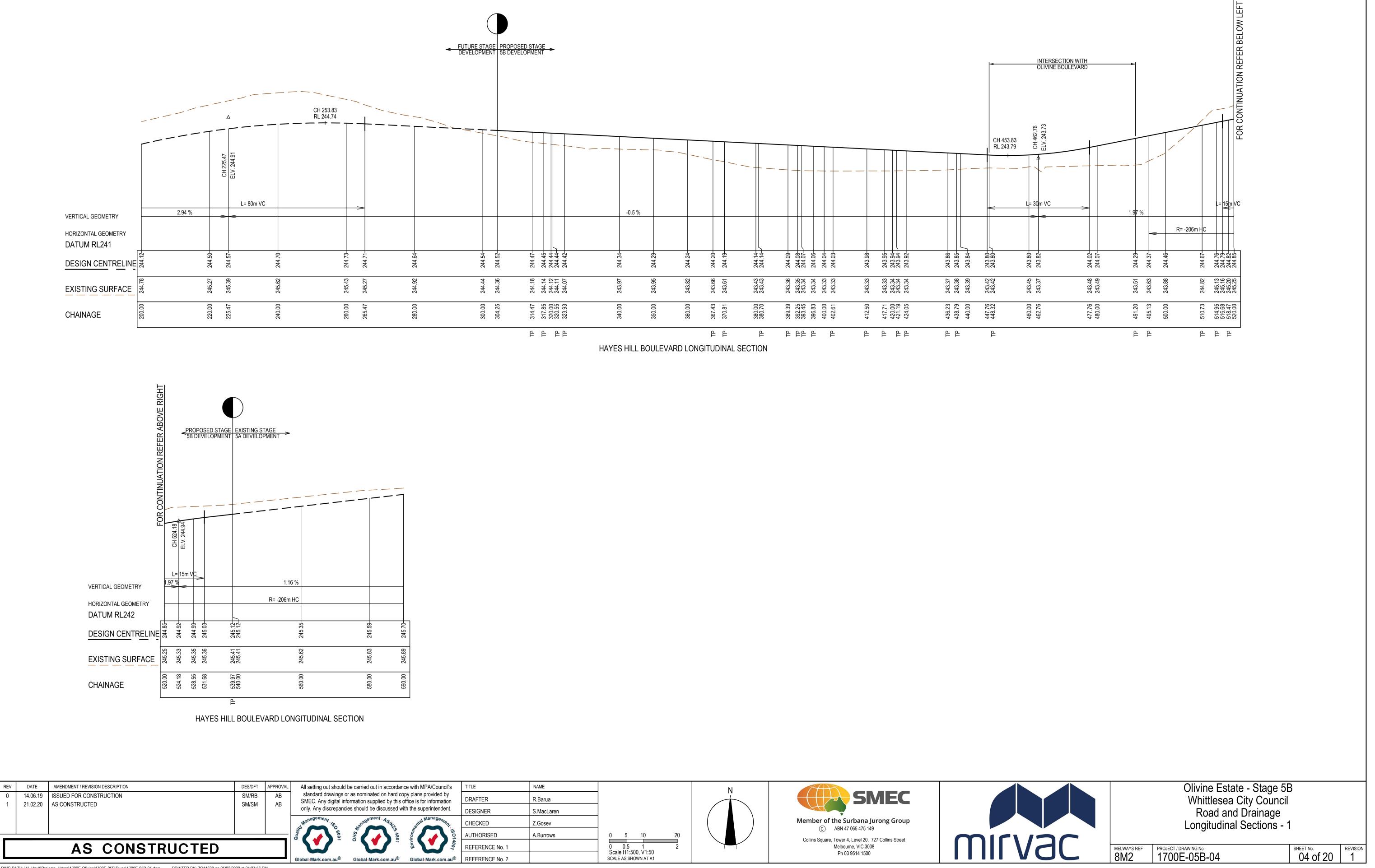


Collins Square, Tower 4, Level 20, 727 Collins Street Melbourne, VIC 3008 Ph 03 9514 1500





| | NAME |
|---------|------------|
| | R.Barua |
| | S.MacLaren |
| | Z.Gosev |
| ED | A.Burrows |
| E No. 1 | |
| E No. 2 | |
| | |



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| Council's vided by formation ntendent. | TITLE DRAFTER DESIGNER | NAME R.Barua S.MacLaren | | N | SMEC | |
|---|------------------------------|-------------------------------|----------------------------------|---|---|--|
| agement | CHECKED | Z.Gosev | | | Member of the Surbana Jurong Group | |
| iso1 | AUTHORISED | A.Burrows | <u>0 5 10 2</u> 0 | | C ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins Street | |
| 4007 | REFERENCE No. 1 | | 0 0.5 1 2 Scale H1:500, V1:50 | | Melbourne, VIC 3008 | |
| rk.com.au® | REFERENCE No. 2 | | SCALE AS SHOWN AT A1 | | Ph 03 9514 1500 | |
| | | | | | | |



| REV | DATE | AMENDMENT / REVISION DESCRIPTION | DES/DFT | APPROVAL | All setting out should be carried out in accordance with MPA/Council's | TITLE | NAME | | N | | |
|--------|---|----------------------------------|---------|----------|---|-----------------|------------|----------------------------------|---|---|--|
| 0 | 14.06.19 | | SM/RB | AB | standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information | DRAFTER | R.Barua | | | SMEC | |
| | 21.02.20 | AS CONSTRUCTED | SM/SM | AB | only. Any discrepancies should be discussed with the superintendent. | DESIGNER | S.MacLaren | | | | |
| | | | | | Wanagement. To watagement. As It antal Management | CHECKED | Z.Gosev | | | Member of the Surbana Jurong Group (C) ABN 47 065 475 149 | |
| | | | | | Supervision of the second second | AUTHORISED | A.Burrows | 0 5 10 20 | | Ŭ | |
| | | AS CONSTRUCTED | | | | REFERENCE No. 1 | | 0 0.5 1 2 Scale H1:500, V1:50 | | Collins Square, Tower 4, Level 20, 727 Collins Street Melbourne, VIC 3008 Ph 03 9514 1500 | |
| DWG PA | Global-Mark.com.au® Global-Mark.com.au® Global-Mark.com.au® REFERENCE No. 2 WG PATH: V:_Vault\Projects_Urban\1700E-0livine\1700E-05B\Dwgs\1700E-05B-05.dwg PRINTED BY: ZG11630 on 25/02/2020 at 04:28:19 PM SCALE AS SHOWN AT A1 | | | | | | | | | | |

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| SSUED FOR CONSTRUCTION | SM/RB SM/SM | AB AB | standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent. |
| | | | anagement agement 4. Managem |

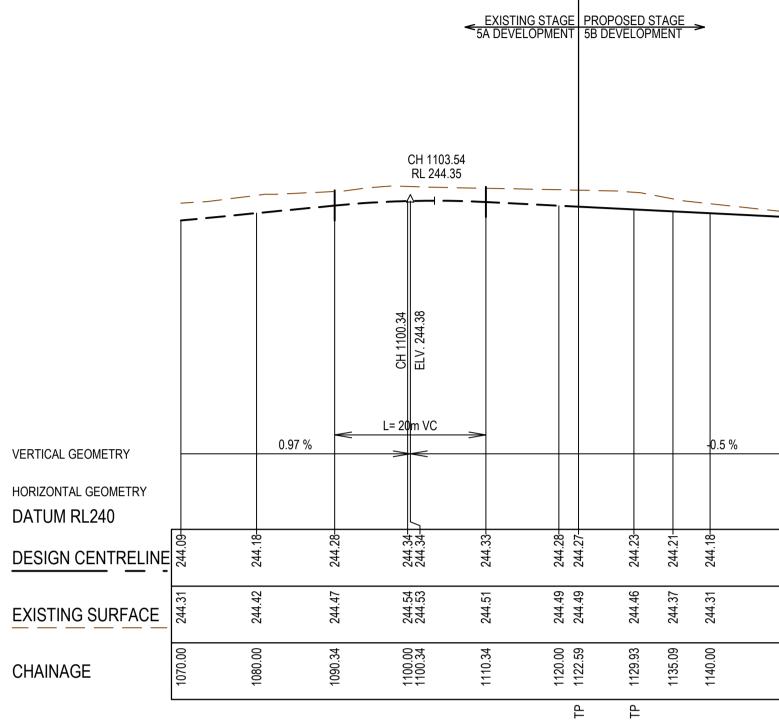
| OLI | DLIVINE BOULEVARD DESIGN LINE | | | | | | | | | | | | |
|-----|-------------------------------|------------|-------------|---------|------|-------------|---|--|--|--|--|--|--|
| | | | | | | | | | | | | | |
| IP | CHAINAGE | X COORI | D Y COORD | Z COORD | TYPE | BEARING | L | | | | | | |
| 1 | 1122.590 | 323103.380 | 5843476.824 | 233.709 | IP | 6°33'20.00" | | | | | | | |
| 2 | 1222.368 | 323114.772 | 5843575.949 | 234.677 | IP | | | | | | | | |
| 3 | 1244.974 | 323117.341 | 5843598.409 | 234.896 | IP | 6°31'30.13" | | | | | | | |

| IP | CHAINAGE | X COOR | D Y COORD | Z COORD | TYPE | BEARING | LE |
|----|----------|------------|-------------|---------|------|-------------|----|
| 1 | 1122.590 | 323103.380 | 5843476.824 | 233.709 | IP | 6°33'20.00" | |
| 2 | 1222.368 | 323114.772 | 5843575.949 | 234.677 | IP | | |

| OLI | VINE BOULI | EVARD DESI | GN LINE | | |
|-----|------------|------------|--------------------------|------|--------|
| | | | D Y COORD 5843476.824 | | LE |

1 304.251 322944.184 5843595.552 244.520 IP 96°33'19.98" 495.133 323133.818 5843573.760 244.366 TC 96°33'19.98" 2 517.564 323156.192 5843571.189 244.808 IP 3 539.97 323178.592 5843573.513 245.122 IP 84°04'39.29" OL

HAYES HILL BOULEVARD DESIGN LINE



| | | | | | | | | | | PROPO 5B DEV | SED STA | GE FUT NT 9 D | TURE STAGE | | | | | |
|-----------|---------|------------|------------------------|----------------|--------------------------|-------|---------------------------|-------------------------------|----------------------------|---------------------------|------------|------------------|------------|--------------------------|-------------------------------|-----------|---------|---------|
| | | | 1 | | | | | INTERSECTION HAYES HILL BO | <u>ON WITH</u> DULEVARD | | | | | | | | | |
| | | | | CH 1182.90 | B ELV. 243.97 | | CH 1203.57 ELV. 243.73 | | | CH 1231.02 ELV. 243.59 | | | | | CH 1301.37 ELV. 243.05 | | | |
| 244.13 | 244.08 | 244.03 | 244.00 | 3.98 3.05 V | | .17 % | 243.73 | 0.5 [_] | 243.64 | 243.59 | 243.52 | 243.48 | 243.37 | 0.76 % 72:52 72:52 | 243.06 | -0.5 % | | 242.81 |
| 244.20 24 | 244.07 | 243.87 | 243.81 24 243.79 24 | | | | 243.52 24 | | 243.48 24 243.48 24 | 243.48 24 | 243.48 | 243.37 24 | 243.49 24 | 243.44 24 | 243.41 24 243.41 24 | 243.41 24 | 243 39 | |
| 1150.00 | 1160.00 | TP 1169.39 | 1175.40 TP 1177.20 | | TP 1184.33 TD 1184.33 | | 1203.57 | | 1220.00 1222.37 | 1231.02 | TP 1239.98 | 1244.98 | 1260.00 | 1280.00 | 1300.00 | 1320.00 | 1340 DN | 1350.00 |

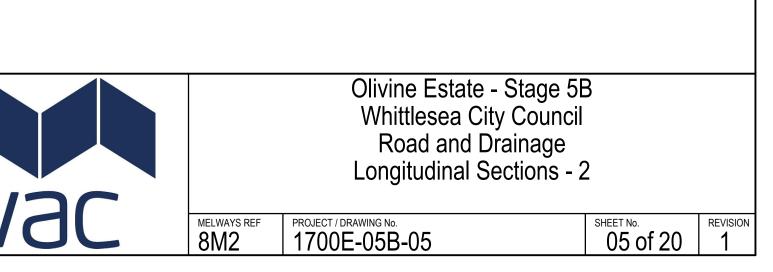
OLIVINE BLVD LONGITUDINAL SECTION

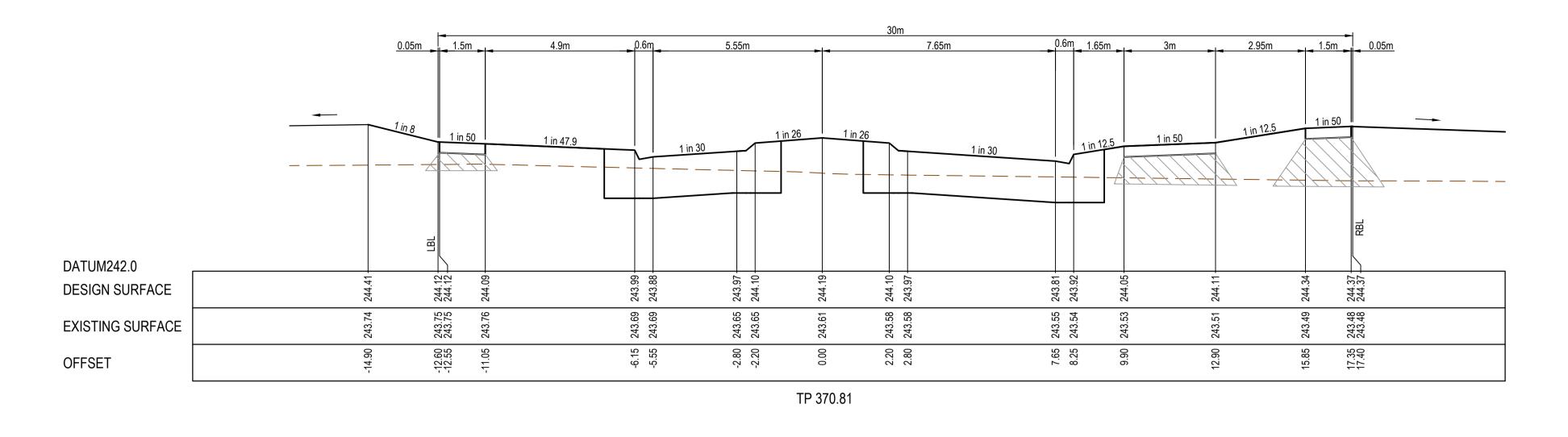
IP CHAINAGE X COORD Y COORD Z COORD TYPE BEARING LENGTH RADIUS

44.863 -206.000

LENGTH RADIUS







| DATUM243.0 | 1 in 8 | 1 in 50 | 1 in 14.3 | 1 in 30 | 1 in 26 | | 1 in 30 | <u>1 in 12.5</u> | <u>1 in 50</u> <u>1 in 12.5</u> | | |
|------------------|------------|------------------|----------------------------------|----------------------|----------|----------------------|----------------------|------------------|---------------------------------|--|--|
| DESIGN SURFACE | 244.52 - | 244.25 244.25 | 244.22 - 244.02 - 243.91 - | 244.07 - 244.21 - | 244.29 - | 244.21 - 244.07 - | 243.91 - 244.02 - | 244.15 | 244.21 | 244.45 - 244.48 - 244.48 - 244.48 - 244.48 - | |
| EXISTING SURFACE | 243.96 | 243.96 243.96 | 243.97 243.97 243.97 | 243.96 243.95 | 243.95 | 243.92 243.90 | 243.84 243.83 | 243.82 | 243.79 | 243.76 243.74 243.74 243.74 243.74 | |
| OFFSET | -14.53 | -12.60 -12.55 | -11.05 -8.25 -7.65 | -2.80 | 0.00 | 2.20 2.80 | 7.65 8.25 | 9.90 | 12.90 | 15.85 17.35 17.40 17.45 | |

| | | | <u>1 in 14.3</u> | <u>1 in 30</u> | | 26 1 in 26 | <u>1 in 30</u> | 1 in 60.5 | 1 in 50 | <u>1 in 12.5</u> | 1 in | | |
|------------------------------|--------|------------------|------------------|------------------|------------------|------------|------------------|------------------|-----------|------------------|--------|----------------------------|--|
| DATUM243.0 DESIGN SURFACE | 244.68 | 244.61 | 244.58 | 244.24 | 244.22 | 244.44 | 244.35 | 244.13 | 244.30 | 244.36 | 244.60 | 244.63 | |
| EXISTING SURFACE | 244.08 | 244.08 244.08 | 244.08 | 244.11 244.11 | 244.11 244.11 | 244.11 | 244.11 244.11 | 244.10 244.09 | 244.05 | 244.03 | 244.00 | 243.99 243.99 243.99 | |
| OFFSET | -13.81 | -12.60 -12.55 | -11.05 | -6.15 -5.55 | -2.80 -2.20 | 0.00 | 2.20 2.80 | 5.55 6.15 | <u> 6</u> | 12.90 | 15.85 | 17.35 17.52 17.52 | |

| DATUM243.0 | | | | | | | | | | n 50 1 in 1 | | |
|------------------|----------|--------|----------------------|--------|----------------------|----------|-------------------|----------------------|--------|-------------|--------|--|
| DESIGN SURFACE | 244.48 - | 244.45 | 244.32 - 244.21 - | 244.21 | 244.30 - 244.44 - | 244.52 - | 244.44 - 244.30 - | 244.14 - 244.25 - | 244.38 | 244.44 | 244.68 | 244.71 244.71 - 244.73 - 244.73 |
| EXISTING SURFACE | 244.37 | 244.37 | 244.37 244.37 | 244.37 | 244.37 244.37 | 244.36 | 244.35 244.35 | 244.30 244.30 | 244.28 | 244.24 | 244.22 | 244.20 244.20 244.20 |
| OFFSET | -12.55 | -11.05 | -7.49 -6.88 | -5.62 | -2.80 | 00.0 | 2.20 2.80 | 7.65 8.25 | 06.6 | 12.90 | 15.85 | 17.35 17.40 17.56 |

| REV DATE | AMENDMENT / REVISION DESCRIPTION | DES/DFT | APPROVAL | All setting out should be carried out in accordance with MPA/Council's | TITLE | NAME | | N | | |
|------------|----------------------------------|---------|----------|--|-----------------|------------|---------------------------------|---|--|-----|
| 0 14.06.19 | | SM/RB | AB | standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information | DRAFTER | R.Barua | | | SMEC | |
| 1 21.02.20 | AS CONSTRUCTED | SM/SM | AB | only. Any discrepancies should be discussed with the superintendent. | DESIGNER | S.MacLaren | | | | |
| | | | | Hanagement to hatagement As it antal Management | CHECKED | Z.Gosev | | | Member of the Surbana Jurong Group (C) ABN 47 065 475 149 | |
| | | | | Contraction of the second seco | AUTHORISED | A.Burrows | 0 2 4 8 | | Collins Square, Tower 4, Level 20, 727 Collins Street | min |
| | AS CONSTRUCTED | | | | REFERENCE No. 1 | | 0 1 2 4 Scale H1:200, V1:100 | | Melbourne, VIC 3008 Ph 03 9514 1500 | |
| | | | | Global-Mark.com.au [®] Global-Mark.com.au [®] Global-Mark.com.au [®] | REFERENCE No. 2 | | SCALE AS SHOWN AT A1 | | | |

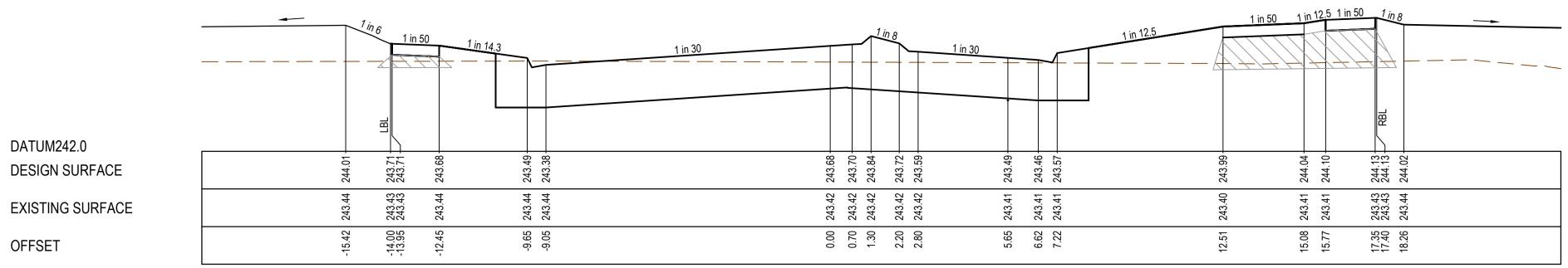
CH 350.00

TP 320.55

CH 304.25

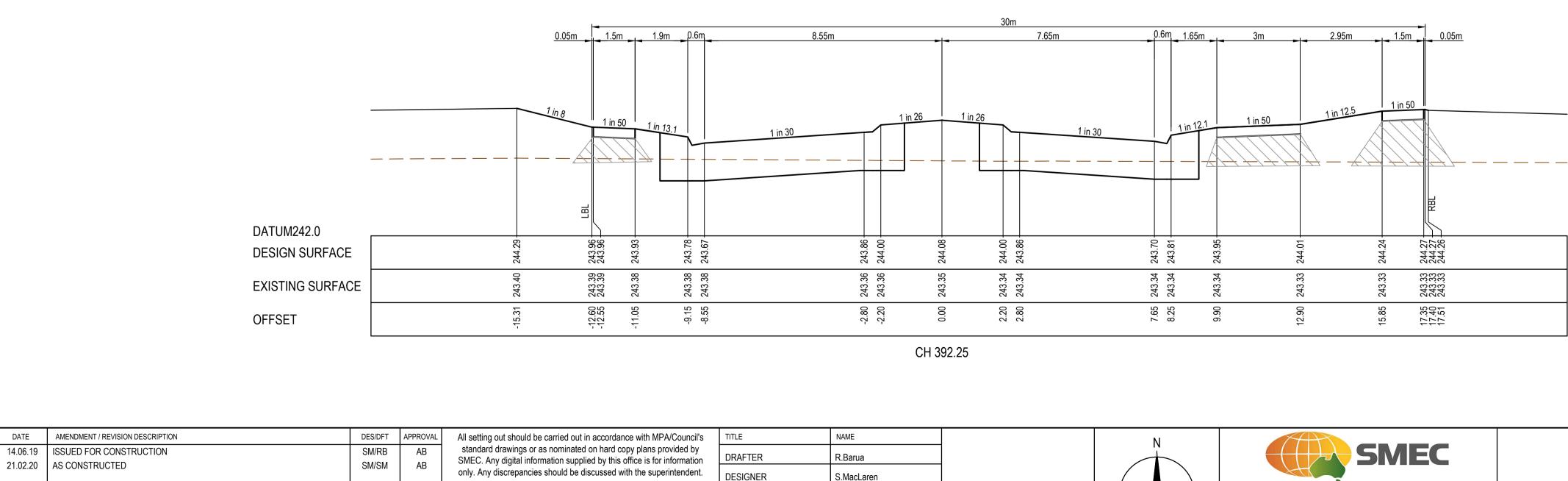






| | 1 in 8 | <u>1 in 50 1 in 14.3</u> | 1 in 1 |
|------------------|--------------------------------------|--------------------------|-------------------------|
| DATUM242.0 | LIBL | | |
| DESIGN SURFACE | 244.13 243.76 | 243.73 | 243.62 243.51 |
| EXISTING SURFACE | 243.35 243.35 243.35 243.35 | 243.35 | 243.35 243.35 |
| OFFSET | -15.36 -12.60 | - 12.33 | -9.45 -8.85 -8.85 |

| | | 1 in 50 | <u>1 in 14.3</u> | |
|------------------|--------|---------|----------------------|----------|
| DATUM242.0 | | К | | |
| DESIGN SURFACE | 244.24 | 243.89 | 243.73 - 243.73 - | 243.62 - |
| EXISTING SURFACE | 243.38 | 243.37 | 243.3/ 243.36 | 243.36 |
| OFFSET | -15.40 | -12.55 | -9.15 | -8.55 |



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AUTHORISE

REFERENC

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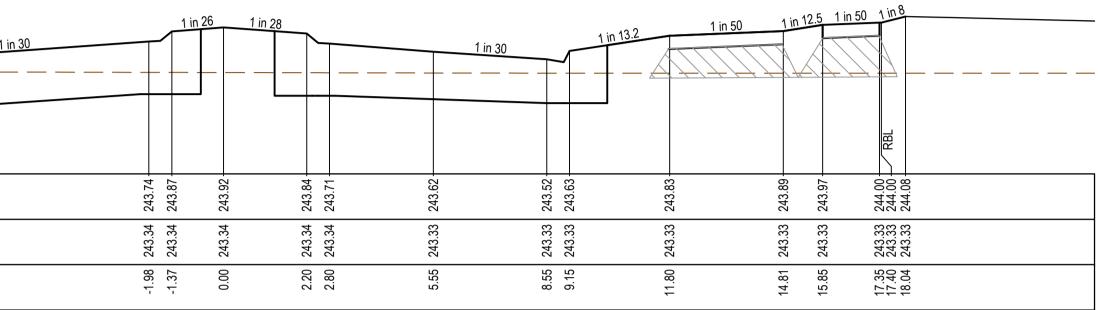
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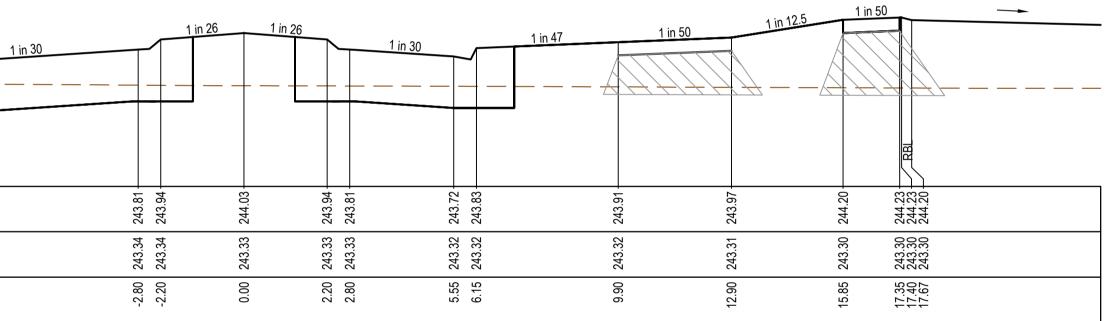
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REV

TP 448.32



CH 424.05



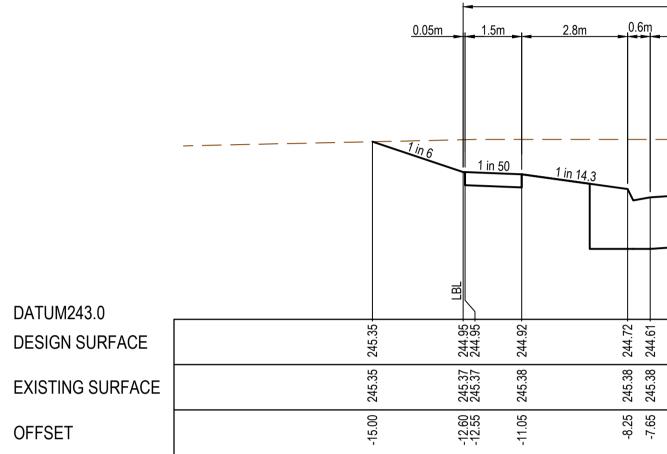
TP 402.61

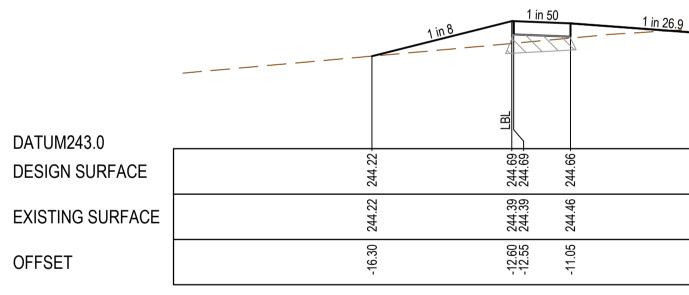
| | NAME | | N | | |
|-----------|------------|---------------------------------|---|---|------|
| 2 | R.Barua | | | SMEC | |
| R | S.MacLaren | | | | |
| כ | Z.Gosev | | | Member of the Surbana Jurong Group (C) ABN 47 065 475 149 | |
| SED | A.Burrows | 0 2 4 8 | | C ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins Street | mich |
| NCE No. 1 | | 0 1 2 4 Scale H1:200, V1:100 | | Melbourne, VIC 3008 | |
| NCE No. 2 | | SCALE AS SHOWN AT A1 | | Ph 03 9514 1500 | |

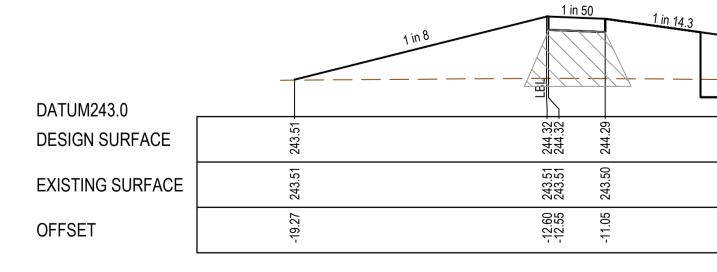




| | | | 1 in 14.3 | 1 in 30 | 1 in 26 1 i | in 26 1 in 30 | | |
|------------------------------|--------|---------|-----------------------------|------------------|-------------|------------------|------------------|--------|
| DATUM243.0 DESIGN SURFACE | 245.43 | ט ט ט ט | 243.003 244.85 244.74 | 244.90 | 245.12 | 245.04 | 44.8 44.8 | 244.93 |
| EXISTING SURFACE | 245.43 | ມ ວິວວິ | 245.43 245.43 245.43 | 245.42 245.42 | 245.41 | 245.40 245.40 | 245.39 245.39 | 245.39 |
| OFFSET | -15.01 | | -11.03 -8.25 -7.65 | -2.80 | 00.0 | 2.20 2.80 | 5.55 6.70 | 7.31 |







| REV | DATE | AMENDMENT / REVISION DESCRIPTION | DES/DFT | APPROVAL | All setting out should be carried out in accordance with MPA/Council's | TITLE | NAME | | N | | |
|-----|----------|----------------------------------|---------|----------|--|-----------------|------------|---------------------------------|---|---|------|
| 0 | | ISSUED FOR CONSTRUCTION | SM/RB | AB | standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information | DRAFTER | R.Barua | | | SMEC | |
| 1 | 21.02.20 | AS CONSTRUCTED | SM/SM | AB | only. Any discrepancies should be discussed with the superintendent. | DESIGNER | S.MacLaren | | | | |
| | | | | | Ananagement. The sanagement As it al Management | CHECKED | Z.Gosev | | | Member of the Surbana Jurong Group | |
| | | | | | Contraction of the second seco | AUTHORISED | A.Burrows | 0 2 4 8 | | C ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins Street | minu |
| | | AS CONSTRUCTED | | | | REFERENCE No. 1 | | 0 1 2 4 Scale H1:200, V1:100 | | Melbourne, VIC 3008 Ph 03 9514 1500 | |
| | | | | | Global-Mark.com.au [®] Global-Mark.com.au [®] Global-Mark.com.au [®] | REFERENCE No. 2 | | SCALE AS SHOWN AT A1 | | | |

| | 30m | | | | • |
|------------------|----------------------------|----------------------------|---------|-------------------|--------------------------------------|
| 7.65m | 5.96m | 0.6m 3.34m | 3m | 2.95m 1.5m | 0.05m |
| 1 in 28 | 1 in 27 1 in 30 | 1 in 39 | 1 in 50 | 1 in 24.9 1 in 50 | |
| 244.91 | 244.93 | 244.67 244.75 244.75 | 244.84 | 245.02 | 245.05 245.05 245.06 245.06 |
| 245.37 245.36 | 245.33 245.33 245.33 | 245.31 245.31 245.30 | 245.28 | 245.25 | 245.25 245.25 245.25 245.25 |
| -2.80 | 2.14 | 5.81 6.56 6.56 | 9.90 | 15.85 | 17.35 |

CH 528.55

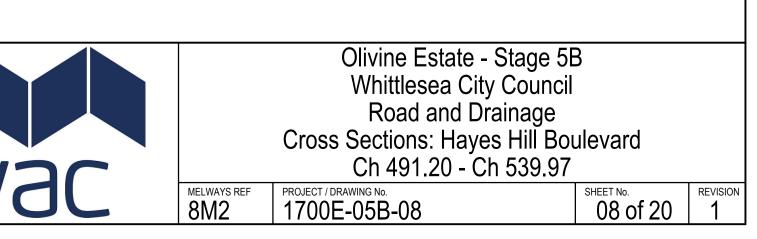
| 91 in 30 | | 1 in 30 | 1 in 30 1 in 50 | 1 in 30 1 in 50 | KR |
|----------------------|--|---|----------------------|----------------------|----------------------------------|
| 244.48 - 244.37 - | 244.46 - 244.59 - 244.71 - 244.58 - 244.55 - 244.55 - | 244.25 - 244.36 - | 244.30 - 244.42 - | 244.48 - 244.57 - | 244.60 - 244.60 - 244.60 - |
| 244.63 244.65 | 244.74 244.75 244.78 244.80 244.82 244.82 | 245.07 245.07 | 245.08 | 245.11 245.13 | 245.14 245.14 245.14 |
| -6.19 -5.59 | -2.80 -2.20 -1.30 -0.70 0.00 | 9 90 9 9 0 0 0 0 0 0 0 0 0 0 | 60.9 11.30 | 14.30 | 138.75 19.10 19.10 |

CH 510.73

| 1 in 30 | 1105 | 1 in 30 | 1 in 30 | 1 in 50 | <u>1 in 30 1 ir</u> | n 50 |
|----------------------|--|---------|----------------------|----------|----------------------|----------------------------------|
| 244.05 - 243.94 - | 244.08 - 244.21 - 244.33 - 244.19 - 244.17 - | | 243.87 - 243.98 - | 244.07 - | 244.13 - 244.19 - | 244.22 - 244.22 - 244.22 - |
| 243.49 243.49 | 243.50 243.50 243.51 243.51 243.51 243.51 | | 243.64 243.66 | 243.72 | 243.76 243.78 | 243.81 243.81 243.81 |
| -7.53 -6.93 | -2.48 -1.38 -0.70 0.00 | | 9.05 | 12.57 | 15.60 | 18.78 19.13 19.13 |

TP 491.20





| | | | | | <u>0.05m</u> |
|--|---------|-------|--|-----------------------------|---|
| | | | | | |
| | | | DATUM243.0 DESIGN SURFACE EXISTING SURFACE OFFSET | | |
| | | | DATUM243.0 DESIGN SURFACE EXISTING SURFACE OFFSET | | |
| | | | DATUM243.0 DESIGN SURFACE EXISTING SURFACE OFFSET | | |
| | | | DATUM243.0 DESIGN SURFACE EXISTING SURFACE OFFSET | | |
| REV DATE AMENDMENT / REVISION DESCRIPTION 0 14.06.19 ISSUED FOR CONSTRUCTION | | ROVAL | All setting out should be carried out in acco standard drawings or as nominated on har | rd copy plans provided by | TITLE |
| 1 21.02.20 AS CONSTRUCTED AS CONSTRUCTED | SM/SM A | | SMEC. Any digital information supplied by a only. Any discrepancies should be discussed on the discrepancies should be discrepancies on the discrepancies should be discrepancies on the discrepancies | ad with the superintendent. | DESIGNER CHECKED AUTHORISEE REFERENCE REFERENCE |

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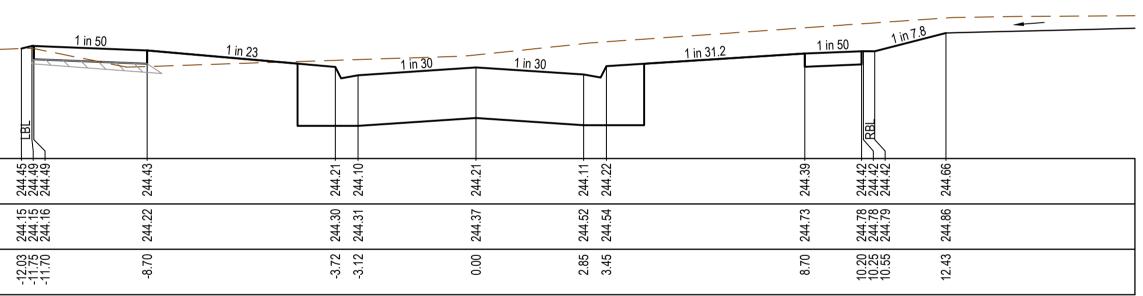
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| l- | | | | | 22m | | | | |
|------------------|---------|-----------------|--------|---------|--------|----------------------|-----------|---------|---|
| ōm _ | 3m | 2.8m | 0.6n | 5.3m | 3. | 66m 0.6m | 4.44m | 1.5m | _ 0.05m |
| LBL | 1 in 50 | <u>1 in 8.7</u> | | 1 in 30 | | in 30 | 1 in 26.9 | 1 in 50 | 1in 7.1 |
| 244.31 244.35 | | 4.29 | 243.97 | 243.80 | 4.03 | 243.91 - 244.02 - | | 244.19 | 244.22 244.22 244.46 |
| 24 24 | 54 | 244 | 24 | 24 | 244 | 24; | | 24 | 244 544 544 544 544 544 544 544 544 544 |
| 243.72 243.72 | 3.73 | 243.80 | 243.81 | 243.01 | 243.87 | 243.89 243.91 | | 244.04 | 244.12 244.14 244.25 |
| 243 | 543 | 24: | 243 | 747 | 243 | 243 | | 244 | 244 244 |
| -12.03 | | -8.70 | -5.90 | 0.00 | 0.00 | 3.66 4.26 | | 8.70 | 10.25 10.55 12.27 |

TP 1169.39

| 1 in 50 | 0 <u>1 in 15,</u> 2 | 41 in 3 | 01 in . | 301 in 29.3 | 1 in 50 1 in | <u>TA</u> |
|--|---------------------|------------------|----------|----------------------|--|-----------|
| 244.38 - 244.43 - 244.43 - 244.43 - | 244.37 - | 244.00 - | 244.13 - | 244.03 - 244.14 - | 244.30 - 244.33 - 244.33 - 244.33 - | 244.58 - |
| 244.03 244.03 244.03 | 244.10 | 244.15 244.15 | 244.20 | 244.26 244.29 | 244.54 244.54 244.62 244.64 | 244.74 |
| -12.16 -11.75 -11.70 | -8.70 | -4.67 | 0.00 | 3.20 3.80 | 8.70 8.70 10.25 10.55 | 12.38 |

CH 1150.00



CH 1135.09

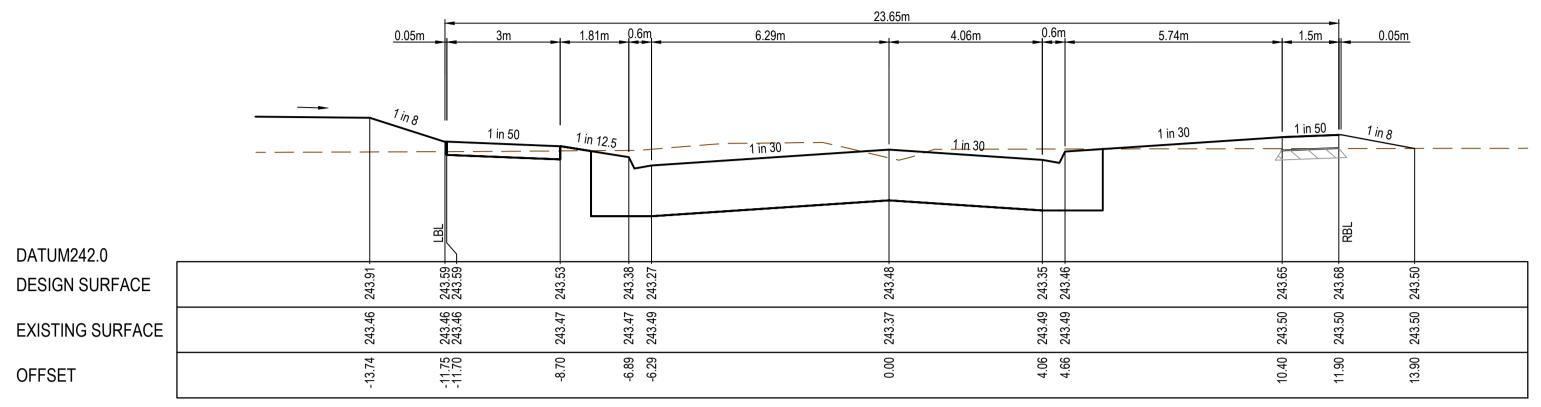
| 1 in 50 | 1 in 29.7 1 in 30 | 1 in 30 | 1 in 32.7 1 | in 50 1 in 8.4 | |
|--|----------------------|----------------------------------|-------------|--|--|
| 244.52 - 244.54 - 244.48 - 244.48 - | 244.29 - 244.18 - | 244.27 - 244.18 - 244.29 - | 244.46 - | 244.49 - 244.49 - 244.49 - 244.70 - | |
| 244.19 244.19 244.19 244.26 | 244.37 244.39 | 244.49 244.58 244.60 | 244.77 | 244.81 244.81 244.82 244.83 244.83 | |
| -11.75 -11.75 -8.70 | -3.15 -2.55 | 0.00 2.55 3.15 | 8.70 | 10.25 10.55 12.29 | |

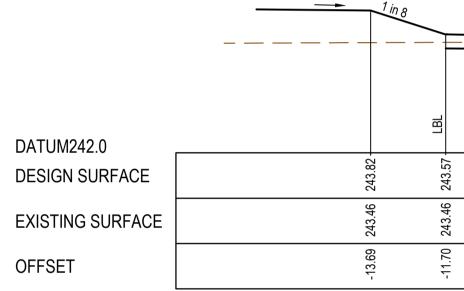
CH 1122.59

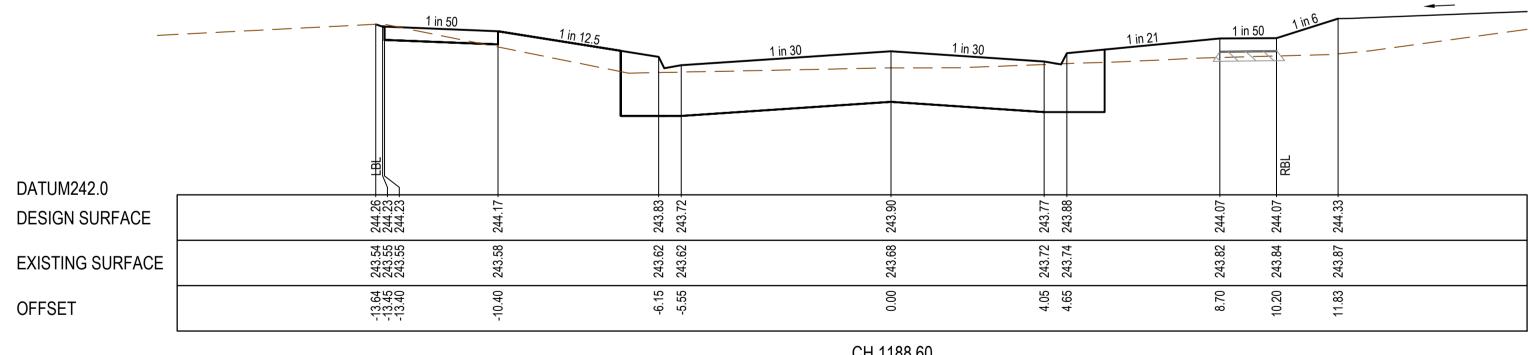
| | NAME | | N | | |
|-----------|------------|---------------------------------|---|--|------|
| R | R.Barua | | | SMEC | |
| ER | S.MacLaren | | | | |
| ED | Z.Gosev | | | Member of the Surbana Jurong Group (C) ABN 47 065 475 149 | |
| RISED | A.Burrows | 0 2 4 8 | | Collins Square, Tower 4, Level 20, 727 Collins Street | minu |
| NCE No. 1 | | 0 1 2 4 Scale H1:200, V1:100 | | Melbourne, VIC 3008 | |
| NCE No. 2 | | SCALE AS SHOWN AT A1 | | Ph 03 9514 1500 | |











| REV | DATE | AMENDMENT / REVISION DESCRIPTION | DES/DFT | APPROVAL | | | | TITLE | |
|-----|----------|----------------------------------|---------|----------|---|---|---------------------|------------|--|
| 0 | 14.06.19 | ISSUED FOR CONSTRUCTION | SM/RB | AB | standard drawings of SMEC, Any digital inf | DRAFTER | | | |
| 1 | 21.02.20 | AS CONSTRUCTED | SM/SM | AB | | SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent. | | | |
| | | | | | Management | anagement . Au | ental Management | CHECKED | |
| | | | | | goo1 | S A80 | ironm, | AUTHORISED | |
| | | AS CONSTRUCTED | | | | | AU3 | REFERENCE | |
| | | | | | Global-Mark.com.au® | Global-Mark.com.au® | Global-Mark.com.au® | REFERENCE | |

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CH 1244.98

| 1 in 50 | <u>1 in 14.8</u> | | | 1 in 30 | | <u>1 in 30</u> | _/ | | 1 in 29.8 | 1 in 50 | 1 in 8 | - | |
|----------|------------------|--------|--------|--------------|------|----------------|--------|-------------|-----------|---------|----------|--------|--|
| | | | | | | | | | | | | | |
| | L | | | | | | | | | | RBL | | |
| 243.55 - | | 243.40 | 243.29 | | | 243.39 - | 01 010 | - 06.243.00 | | 243.69 | 243.72 - | 243.50 | |
| 243.47 | | | 243.49 | 243 48 24 | | 243.48 | 01 010 | 243.40 | | 243.49 | 243.49 | 243.50 | |
| -9.51 | 0 0 1 | -7.63 | -7.03 | | 00.0 | 4.05 | 100 | C0.4 | | 10.40 | 11.90 | 14.40 | |

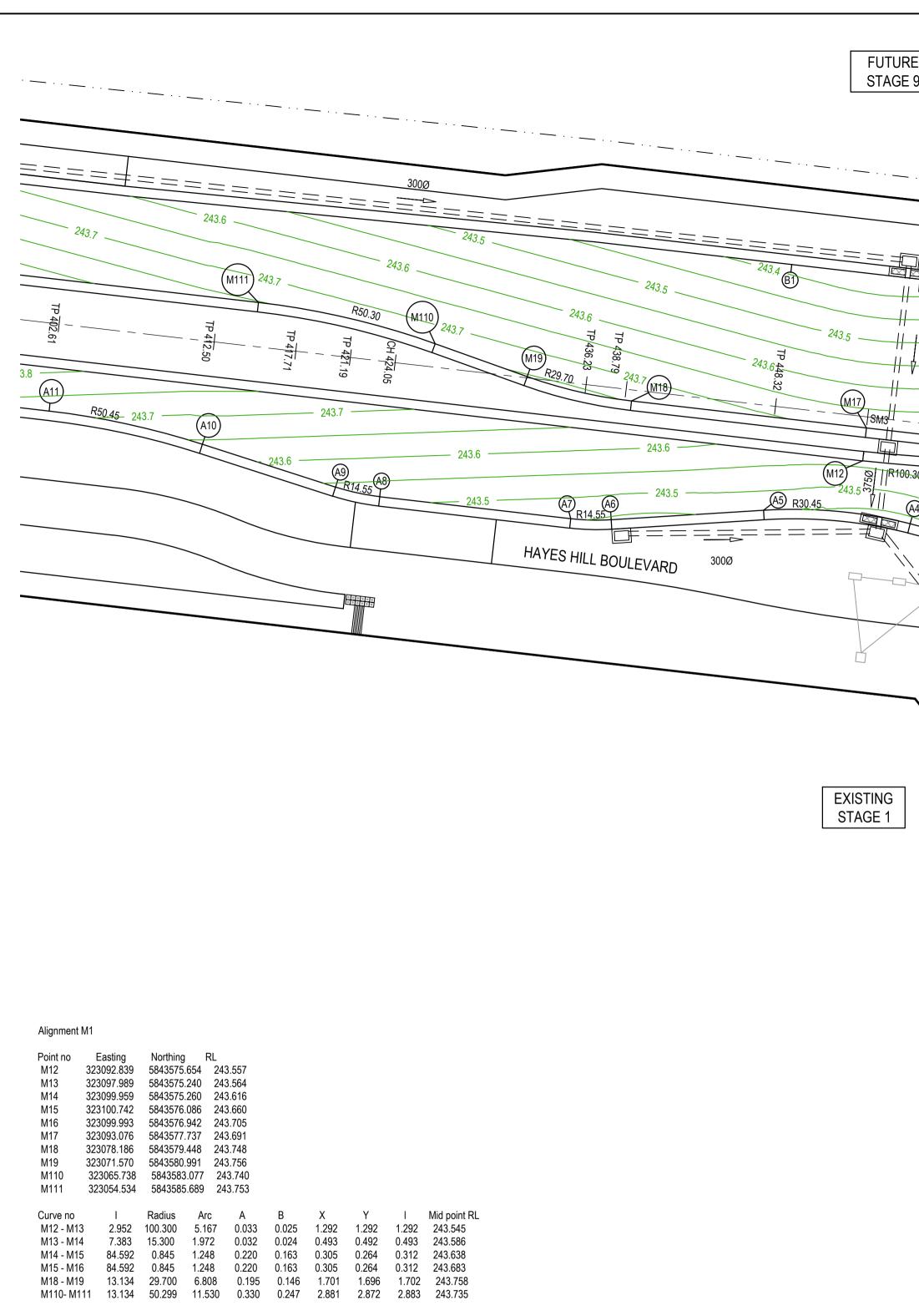
CH 1239.98

CH 1188.60

| | NAME | | N | | |
|------------|------------|--|---|---|--|
| ER | R.Barua | | | SMEC | |
| IER | S.MacLaren | | | | |
| ED | Z.Gosev | | | Member of the Surbana Jurong Group (C) ABN 47 065 475 149 | |
| RISED | A.Burrows | 0 2 4 8 | | C ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins Street | |
| ENCE No. 1 | | 0 1 2 4 Scolo H1:200 V1:100 | | Melbourne, VIC 3008 | |
| ENCE No. 2 | | Scale H1:200, V1:100 SCALE AS SHOWN AT A1 | | Ph 03 9514 1500 | |







Alignment M2

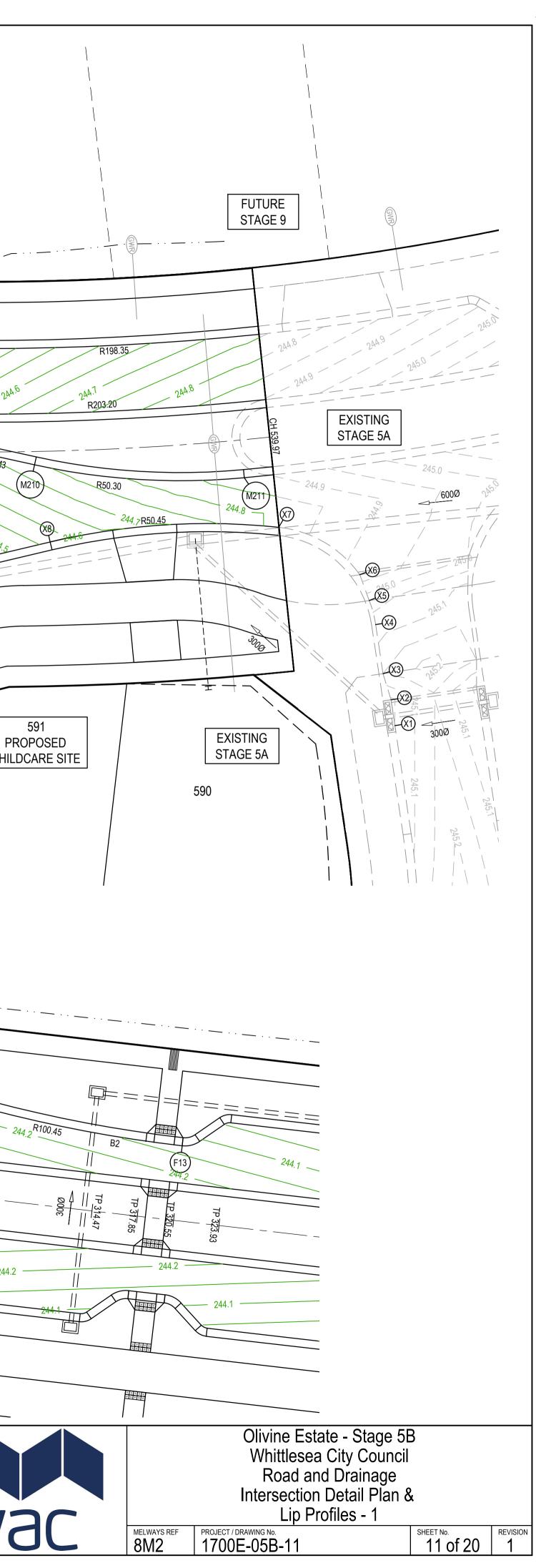
Point no Easting Northing RL M22 323137.107 5843576.222 244.214 M23 323129.579 5843576.691 244.064 M24 323128.479 5843576.678 244.078 323127.718 5843575.906 244.136 M25 323128.426 5843575.084 244.160 M26 M27 323133.898 5843574.455 244.269 M28 323151.261 5843573.203 244.614 M29 323155.861 5843572.636 244.685 323161.187 5843571.465 244.739 M210 323176.713 5843570.514 244.884 M211

Curve noIRadiusArcABXYIMid point RLM22 - M234.310100.3007.5440.0710.0531.8861.8851.886244.139M23 - M244.12015.3001.1000.0100.0070.2750.2750.275244.053M24 - M2585.3640.8001.1920.2120.1570.2910.2510.298244.107M25 - M2685.3640.8001.1920.2120.1570.2910.2510.298244.148M27 - M284.860205.30017.4130.1850.1384.3534.3514.353244.442M28 - M2910.76824.7004.6420.1090.0821.1601.1581.161244.653M210- M21117.79050.30015.6180.6050.4533.9013.8773.905244.811

FOR INTERSECTION LIP PROFILE SEE DRAWING No 1700E-05B-12 & 1700E-05B-13

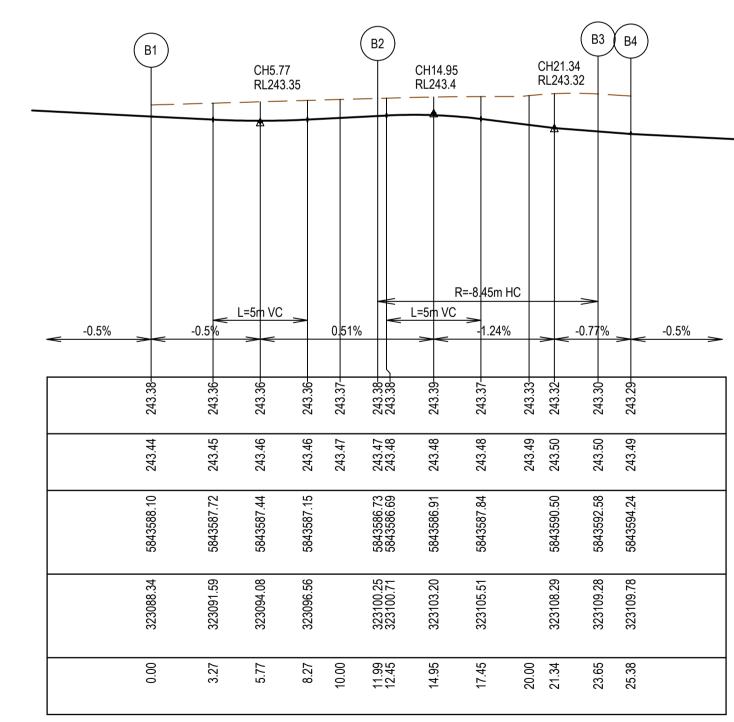
| | REV | DATE | AMENDMENT / REVISION DESCRIPTION | DES/DFT | APPROVAL | All setting out should | be carried out in accordan | ce with MPA/Council's | TITLE |
|---|--------|----------------------|---|-------------------|----------|------------------------|--|-------------------------|--------------|
| | 0 | 14.06.19 21.02.20 | ISSUED FOR CONSTRUCTION AS CONSTRUCTED | SM/RB KM/KM | AB AB | | or as nominated on hard co formation supplied by this c | | DRAFTER |
| | 1 | 21.02.20 | AS CONSTRUCTED | | | only. Any discrepanc | cies should be discussed wi | ith the superintendent. | DESIGNER |
| | | | | | | Wanagement in | anagement . 40 K | ental Management | CHECKED |
| ŀ | | | | <u> </u> | | Cuality Cook | S A80 | 10SV | AUTHORISED |
| | | | AS CONSTRUCTED | | | | | 4007 | REFERENCE No |
| | | | | | | Global-Mark.com.au® | Global-Mark.com.au® | Global-Mark.com.au® | REFERENCE No |
| _ | DWG PA | ATH: V:_Vault\Pro | pjects_Urban\1700E-Olivine\1700E-05B\Dwgs\1700E-05B-11.dwg PRINTED BY: ZG11630 on 25/02/2 | 020 at 05:07:54 F | PM | | | | |

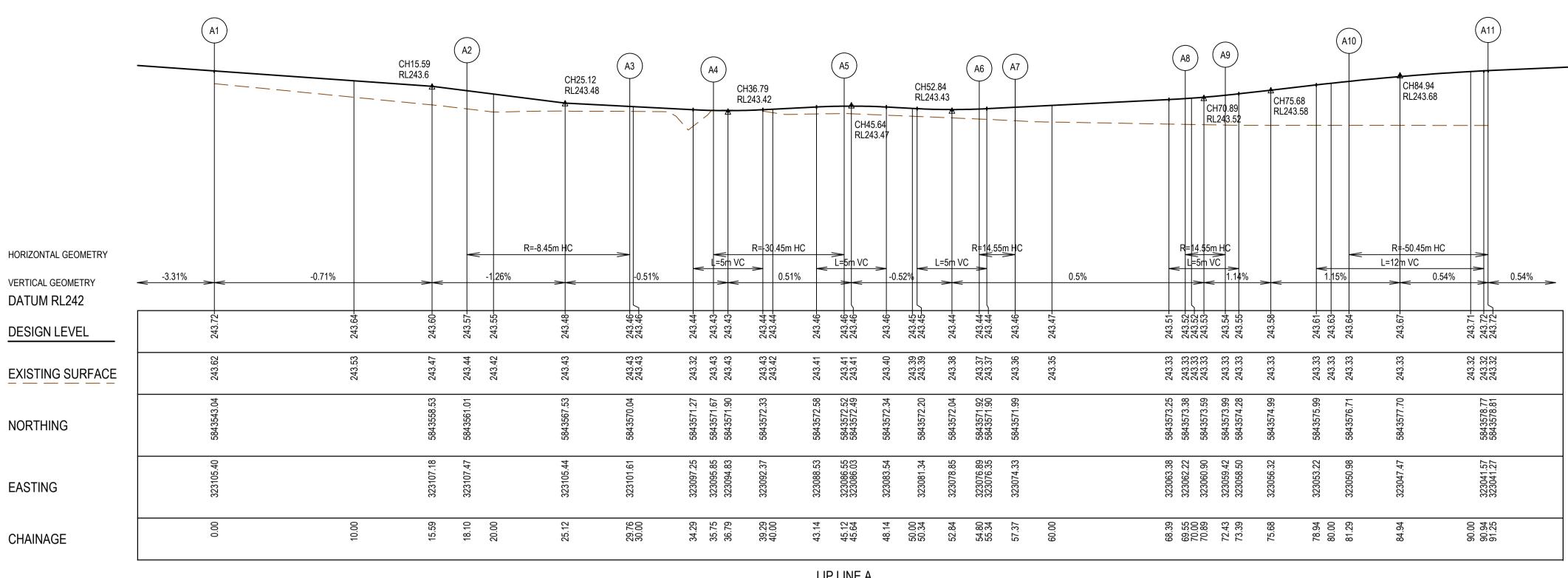
| B2 243.4 B2 P8.45 P243.6 243.6 M16 | CH 1244.98 CH 1243.9 CH 1244.98 CH 1243.9 CH 1244.98 CH 1243.9 CH 1243. | 243.4 243.4 243.1 243.8 243.9 243.9 | HAYES HILL BOULEVARD HAYES HILL BOULEVARD $= = = = = = = = = = = = = = = = = = =$ | B2 11 A 15 |
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| 30 M13 M14 243.6 A) B2 P3 243.5 T3 P5 | | 343.9 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 244. SM3 24.0 244.3 244.55 244.3 244.55 244.3 244.55 245.55 2 |
| | SF 0012 SF | | 591 PROPOSED CHILDCARE SITE | |
| | | | | |
| NAMER.BaruaS.MacLarenZ.GosevDA.BurrowsNo. 1No. 2 | 0 2 4 8 Scale 1:200 SCALE AS SHOWN AT A1 | N | Collins Square, Tower 4, Level 20, 727 Collins Street Melbourne, VIC 3008 Ph 03 9514 1500 | |

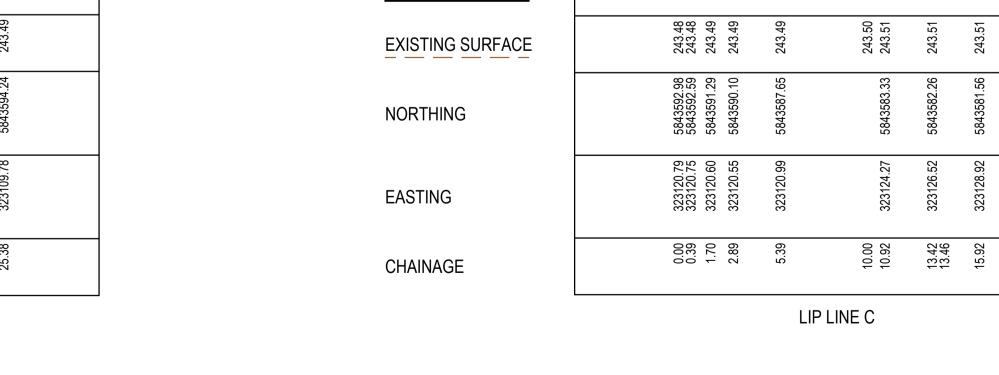


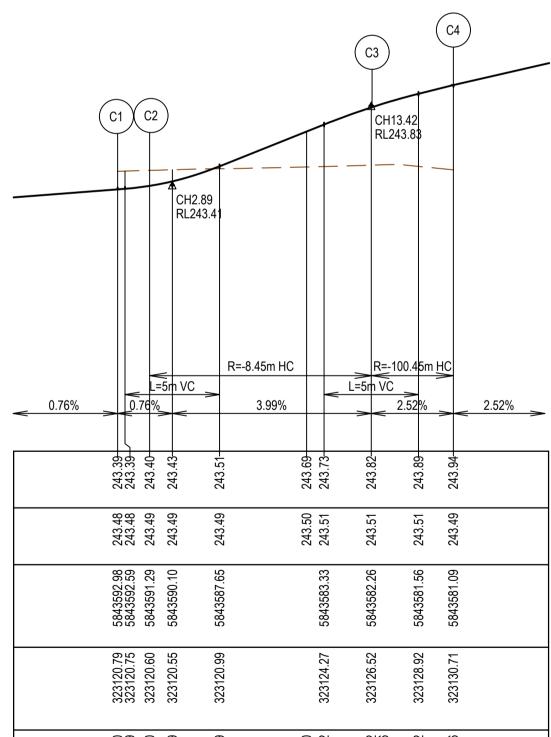
| | | - | | Global-Mark.com.au® | Global-Mark.com.au® | Global-I |
|----------|----------------|-----------|-------|-----------------------|---|-------------|
| | AS CONSTRUCTED | | | | | Envi |
| | | | | Dog Ool | AND | Louise |
| | | | | only. Any discrepance | ies should be discussed wit | th the supe |
| 21.02.20 | ASCONSTRUCTED | 3101/3101 | AD AD | | the second data is all a second second second | u. u |

| | RUCTED | | | ~ 🔪 👅 | - 2 | | 6 | REFERENCE | | | 0 0.2 | 0.4 0.8 | | COULTS | Melbourne, ' | | | | | |
|--|-------------------------------|------------------|--|--------------------------|--|--------------|------------------------|---------------------|--------------------------|-----------------------|-------|---------|-------------------------------|---------|--|------------|--------------------------------|----------------|--------------------------|---|
| | | | Cuality of | OHS Ma | 12 A80 | | 1501 | AUTHORISE | D | A.Burrows | 0 2 | 4 8 | | | C ABN 47 065 Square, Tower 4, Lev | 6 475 149 | | | | |
| | | | Wanagement. | nagement. | ASIA | Manage | | CHECKED | | Z.Gosev | ——— | | | | er of the Surb | | g Group | | | |
| 21.02.20 AS CONSTRUCTED | | SM/SM AB | SMEC. Any digital inf only. Any discrepanci | | | | | DRAFTER DESIGNER | | R.Barua S.MacLaren | | | | | | | | | | |
| DATE AMENDMENT / REVISION DESCRIPTION 14.06.19 ISSUED FOR CONSTRUCTION | | DES/DFT APPROVAL | All setting out should standard drawings o | r as nominated or | n hard copy pl | lans provide | d by | | | NAME | | | N A | | | 5 M | EC | | | |
| | | | | | | | | | | | | | 1 | | | | | | | |
| | | | | | LIP LIN | ΕB | | | | | | | | | | LIF | P LINE C | | | |
| | CHAINAGE | | 0.00 3.27 | 5.77 8.27 | 10.00 11.99 12.45 | 14.95 | 17.45 | 20.00 21.34 | 23.65 25.38 | | | | CHAINAGE | | 0.00 0.39 1.70 2.89 | 5.39 | 10.00 | 13.42 13.46 | 15.92 17.76 | • |
| | EASTING | | 323088.34 323091.59 | 323094.08 323096.56 | 323100.25 323100.25 | 323103.20 | 323105.51 | 323108.29 | 323109.28 323109.78 | | | | EASTING | | 323120.79 323120.75 323120.60 323120.55 | 323120.99 | 323124.27 | 323126.52 | 323128.92 323130.71 | - |
| | NORTHING | | 5843588.10 5843587.72 | 5843587.44 5843587.15 | 5843586.73 5843586.73 5843586.69 | 3586. | 5843587.84 | 5843590.50 | 5843592.58 5843594.24 | | | | NORTHING | | 5843592.98 5843592.59 5843591.29 5843590.10 | 5843587.65 | 5843583.33 | 5843582.26 | 5843581.56 5843581.09 | |
| | EXISTING SURFACE | | 243.44 243.45 243.45 | | 243.47 243.47 243.48 243.48 | 243.48 | 243.48 | 243.49 243.50 | 243.50 243.49 | | | | EXISTING SURFACE | | 243.48 243.48 243.49 243.49 243.49 | 243.49 | 243.50 243.51 | 243.51 | 243.51 243.49 | _ |
| | DESIGN LEVEL | | 243.38- 243.36- 243.36 | | 243.37- 243.38- 243.38- 243.38- | 243.39- | 243.37- | 243.33- 243.32- | 243.30- 243.29- | | | | DESIGN LEVEL | | 243.39- 243.39- 243.40- 243.43- | 243.51- | 243.69 - 243.73- | 243.82- | 243.89- 243.94- | |
| | VERTICAL GEOMETRY DATUM RL242 | < 0.070 | | >< | | >< | 1.21 | | | < 0.070 > | | | VERTICAL GEOMETRY DATUM RL242 | < 0.70% | | | 3.3376 | ~>< | | - |
| | HORIZONTAL GEOMETRY | -0.5% | L= | 5m VC _ | 0.51% | L=5m VC | R=-8.45m ; -1.24 | | -0.77% | -0.5% | | | HORIZONTAL GEOMETRY | 0.76% | L=5m V(0.76% | c _ | 45m HC 3.99% | L=5m VC | 00.45m HC | - |

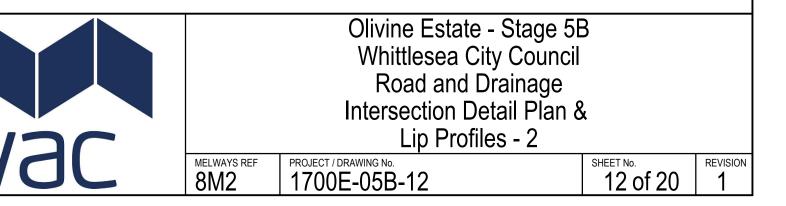


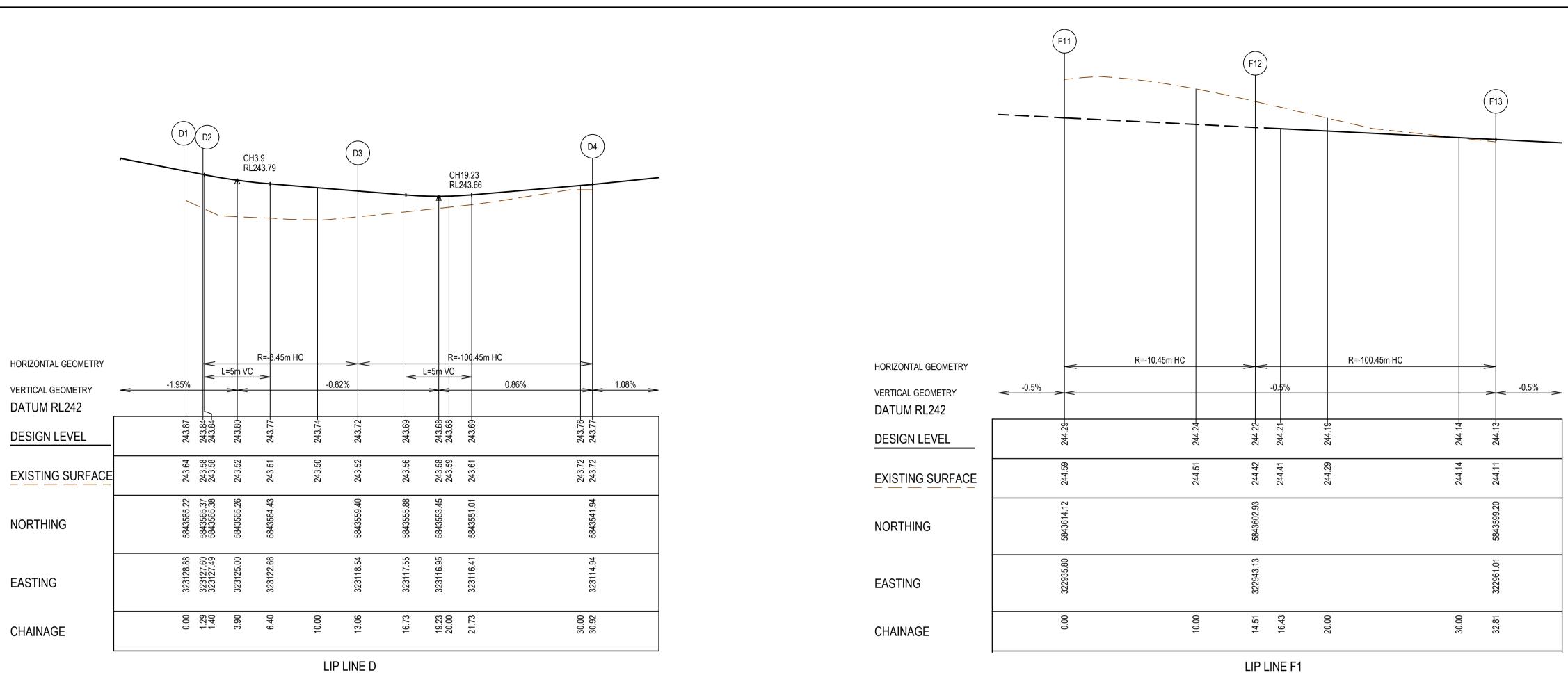








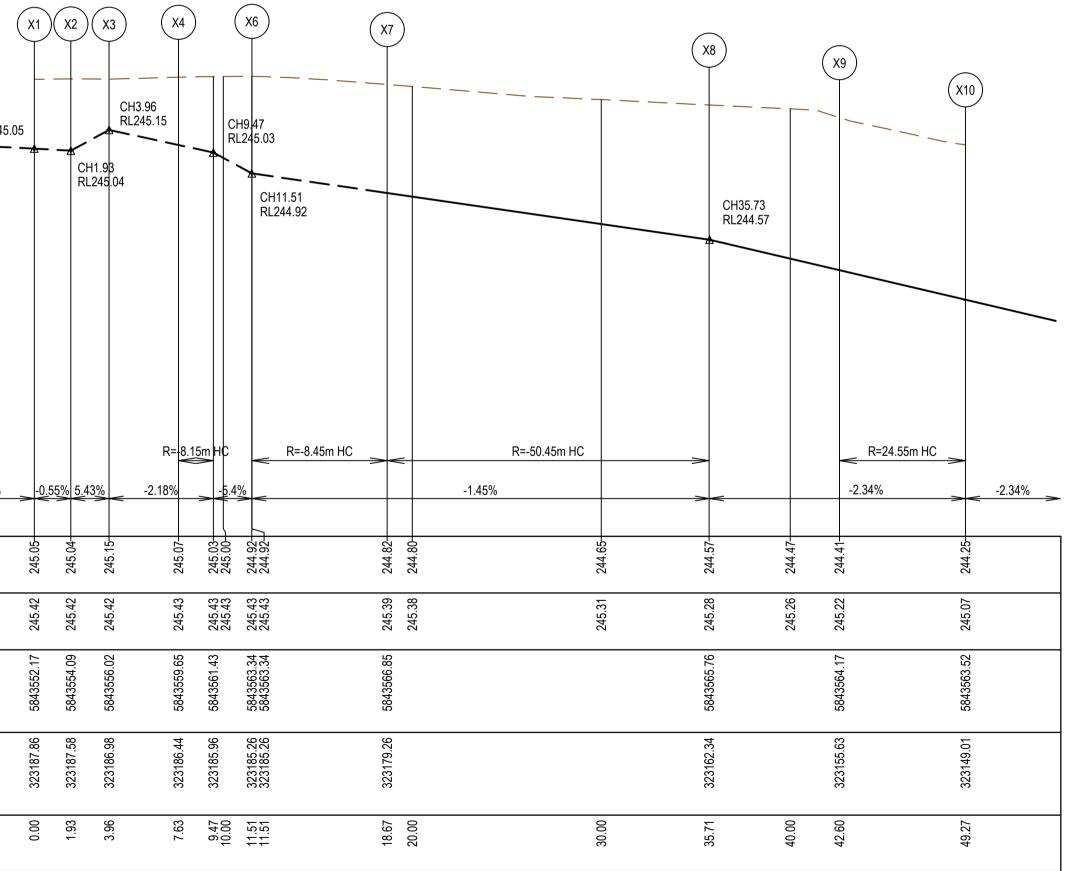




| | (X1 | | 2 |
|---------------------|------------|------------|------------|
| CH0 RL24 | 45.05 | | |
| | | 4 | |
| HORIZONTAL GEOMETRY | | | |
| VERTICAL GEOMETRY |) | 0.55% | 5.4 |
| DESIGN LEVEL | 245.05 | 245.04 | 440.04 |
| EXISTING SURFACE | 245.42 | 245.42 | 240.42 |
| NORTHING | 5843552.17 | 5813551 DO | 00.4000400 |
| EASTING | 323187.86 | 373187 58 | 00.101020 |
| CHAINAGE | 0.00 | 1 03 | 0.1 |
| | | | |

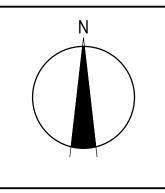
| REV 0 1 | DATE 14.06.19 21.02.20 | AMENDMENT / REVISION DESCRIPTION ISSUED FOR CONSTRUCTION AS CONSTRUCTED | DES/DFT SM/RB SM/SM | APPROVAL AB AB | standard drawings o SMEC. Any digital infe | be carried out in accordance r as nominated on hard co ormation supplied by this o es should be discussed wit | py plans provided by ffice is for information | TITLE DRAFTER DESIGNER |
|---------------|------------------------------|---|---------------------------|----------------------|---|--|--|------------------------------|
| | | | | | in the second second | startagement . AS AL | E Management | CHECKED |
| | | AS CONSTRUCTED | | | Global-Mark.com.au® | Global-Mark.com.au® | Global-Mark.com.au® | REFERENC |

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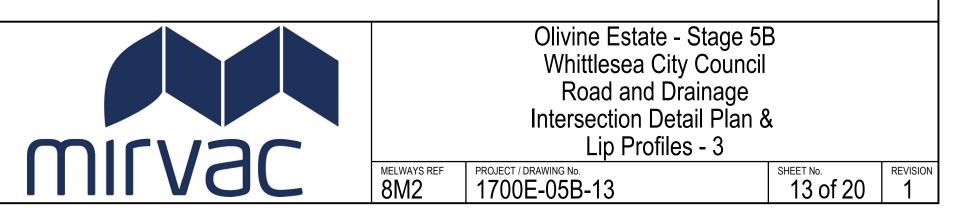


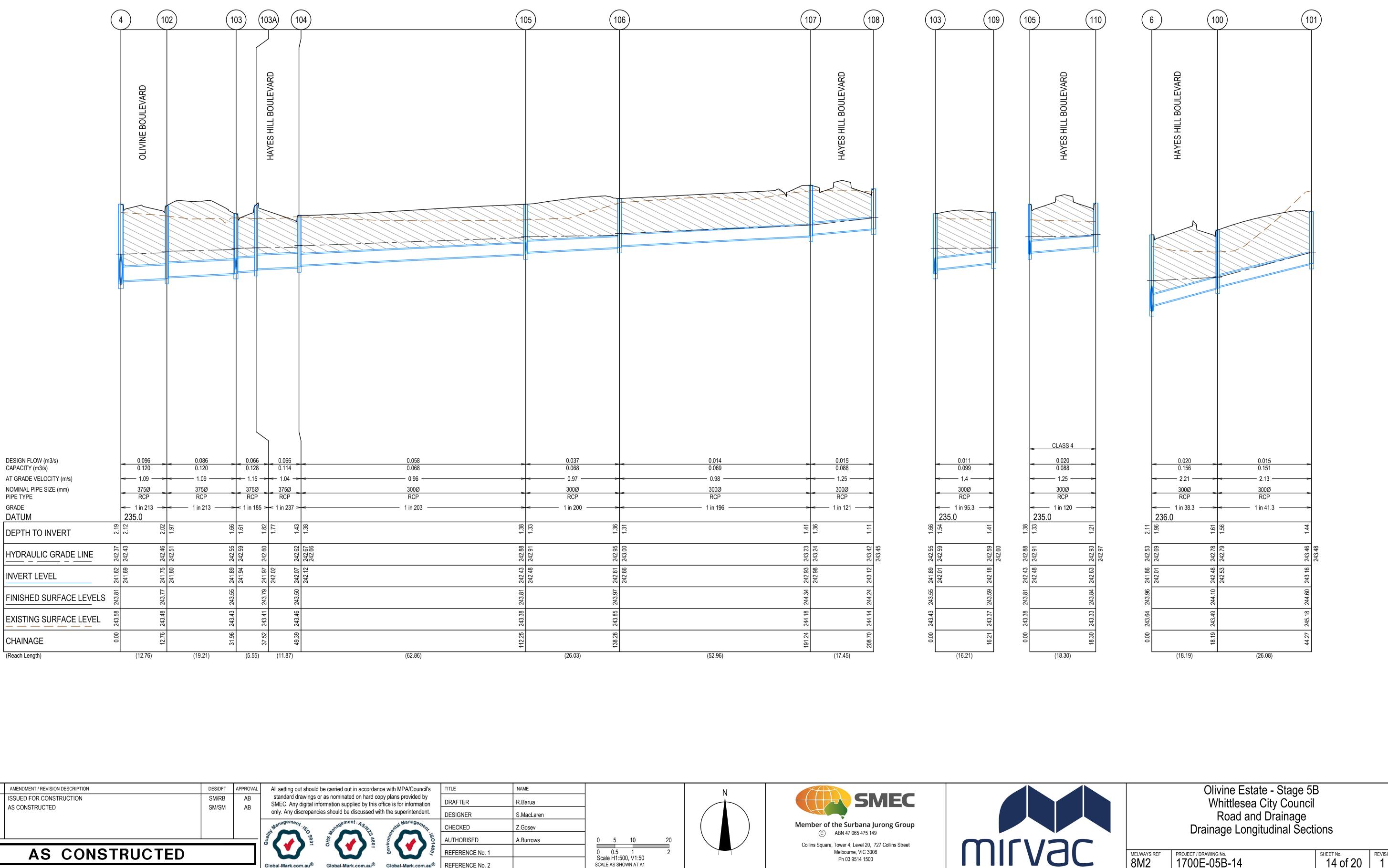
LIP LINE X

| | NAME | | |
|------------|------------|-----------------------------------|---|
| ER | R.Barua | | |
| IER | S.MacLaren | | |
| ED | Z.Gosev | | |
| RISED | A.Burrows | 0 2 4 | 8 |
| ENCE No. 1 | | 0 0.2 0.4 | |
| ENCE No. 2 | | Scale H1:200, V SCALE AS SHOWN | |
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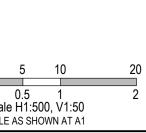
DATE REV 14.06.19 ISSUED FOR CONSTRUCTION 21.02.20 AS CONSTRUCTED

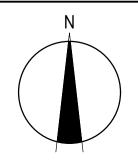


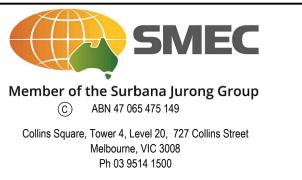


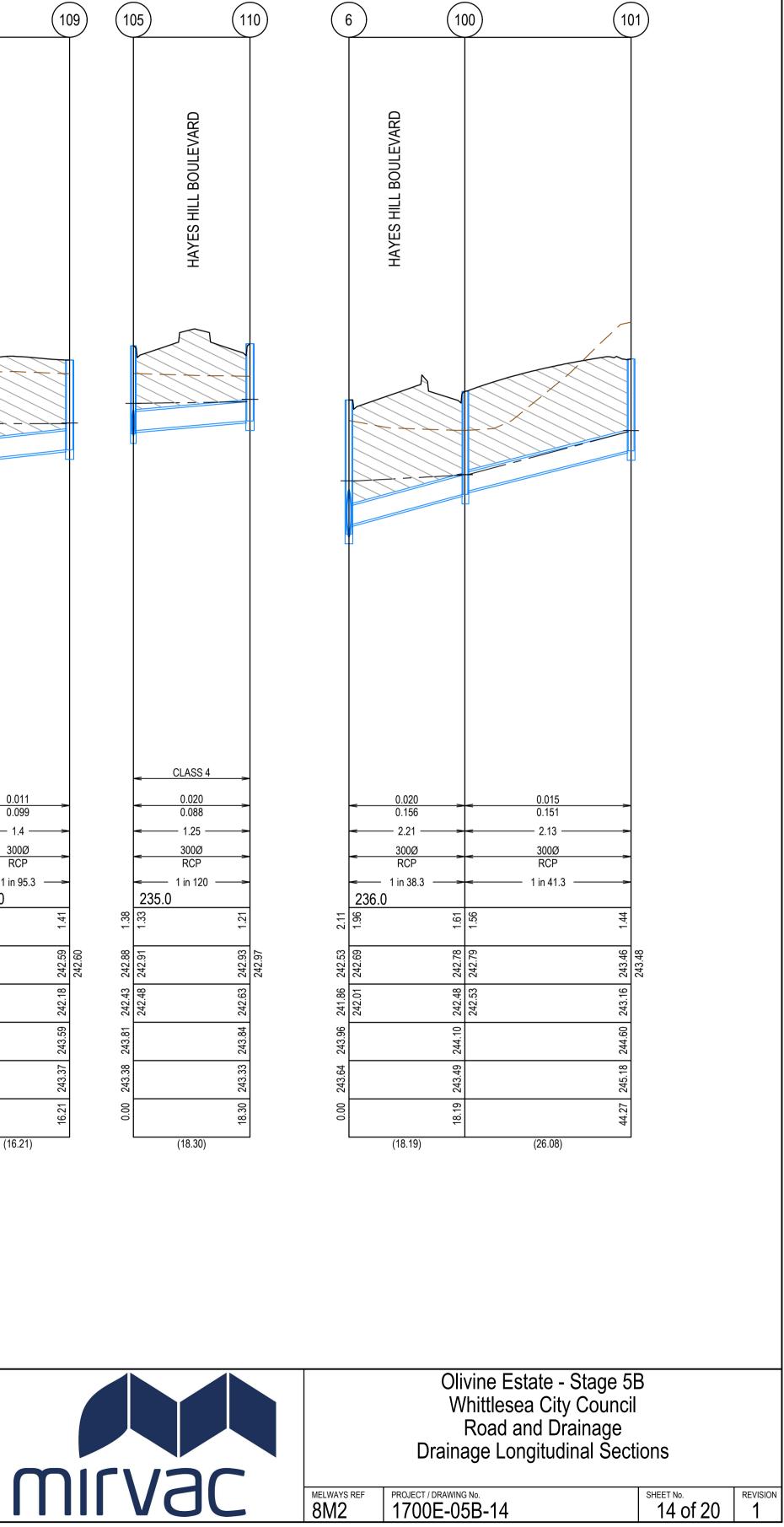
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| | NAME | |
|----------|------------|---------|
| | R.Barua | |
| | S.MacLaren | |
| | Z.Gosev | |
| ED | A.Burrows | 05 |
| CE No. 1 | | 0 0. |
| CE No. 2 | | Scale H |
| | | |









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| $\langle \rangle$ | $\langle \rangle$ | |
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| | $\overline{)}$ | |

CRUSHED ROCK BACKFILL CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE

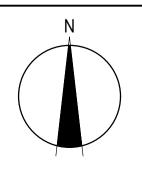
WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE

| | | | | | | PIT SCHEDULE | | | | | |
|------------|----------------------------|--------------------|--------------------|----------------------|------------------------|----------------------|------------------------|----------------|-------|------------------|--|
| PIT NUMBER | TYPE - | | RNAL | | ET | OUT | | PIT SETOUT RL. | DEPTH | STANDARD DRAWING | REMARKS |
| 4 | EX. PIT | WIDTH (mm) 1050 | LENGTH (mm) 900 | DIAMETER (mm) 600 | INV R.L. (m) 241.70 | DIAMETER (mm) 750 | INV R.L. (m) 241.62 | 243.81 | 2.19 | EDCM 602 & 607 | CONNECT TO EXISTING DOUBLE GRATED ENTRY PIT |
| | | | | 375 | 241.70 | | | | | | |
| 6 | EX. PIT | 900 | 1050 | 600 | 241.91 | 600 | 241.86 | 243.96 | 2.11 | EDCM 601 & 607 | CONNECT TO EXISTING GRATED ENTRY PIT |
| | | | | 300 | 242.01 | | | | | | |
| 100 | GRATED ENTRY PIT | 600 | 900 | 300 | 242.53 | 300 | 242.48 | 244.10 | 1.61 | EDCM 601 & 605 | |
| 101 | GRATED ENTRY PIT | 600 | 900 | | | 300 | 243.16 | 244.60 | 1.44 | EDCM 601 & 605 | |
| 102 | GRATED ENTRY PIT | 600 | 900 | 375 | 241.80 | 375 | 241.75 | 243.77 | 2.02 | EDCM 601 & 607 | INSTALL HD COVER |
| 103 | DOUBLE GRATED ENTRY PIT | 750 | 900 | 375 | 241.94 | 375 | 241.89 | 243.55 | 1.66 | EDCM 602 & 605 | HAUNCH PIT. COVER 600x900 |
| | | | | 300 | 242.01 | | | | | | |
| 103a | JUNCTION PIT | 600 | 600 | 375 | 242.02 | 375 | 241.97 | 243.79 | 1.82 | EDCM 605 | |
| 104 | DOUBLE GRATED ENTRY PIT | 600 | 900 | 300 | 242.12 | 375 | 242.07 | 243.50 | 1.43 | EDCM 602 & 605 | |
| 105 | GRATED ENTRY PIT | 600 | 900 | 300 | 242.48 | 300 | 242.43 | 243.81 | 1.38 | EDCM 601 & 605 | |
| | | | | 300 | 242.48 | | | | | | |
| 106 | GRATED ENTRY PIT | 600 | 900 | 300 | 242.66 | 300 | 242.61 | 243.97 | 1.36 | EDCM 601 & 605 | |
| 107 | JUNCTION PIT | 600 | 900 | 300 | 242.98 | 300 | 242.93 | 244.34 | 1.41 | EDCM 605 | |
| 108 | GRATED ENTRY PIT | | | | | 300 | 243.12 | 244.24 | 1.11 | EDCM 601 & 605 | |
| 109 | GRATED ENTRY PIT | | | | | 300 | 242.18 | 243.59 | 1.41 | EDCM 601 & 605 | |
| 110 | GRATED ENTRY PIT | | | | | 300 | 242.63 | 243.84 | 1.21 | EDCM 601 & 605 | |

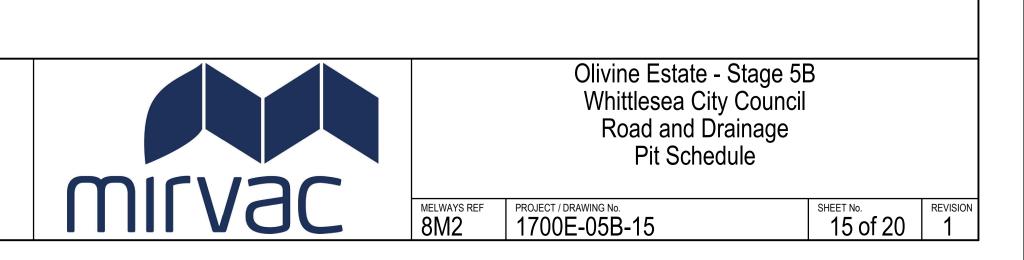
| REV | DATE | AMENDMENT / REVISION DESCRIPTION | DES/DFT | APPROVAL | All setting out should be carried out in | | TITLE | NAME |
|----------------|----------|----------------------------------|---------|----------|--|--|-----------------|------------|
| 0 | 14.06.19 | ISSUED FOR CONSTRUCTION | SM/RB | AB | standard drawings or as nominated or SMEC. Any digital information supplie | | DRAFTER | R.Barua |
| 1 | 21.02.20 | AS CONSTRUCTED | SM/SM | AB | only. Any discrepancies should be dis | | DESIGNER | S.MacLaren |
| | | | | | Nanagement. | ASTAL antal Management | CHECKED | Z.Gosev |
| | | | | | good He was | A80 S A80 | AUTHORISED | A.Burrows |
| AS CONSTRUCTED | | | | | | 4007 11 | REFERENCE No. 1 | |
| | | | | | Global-Mark.com.au [®] Global-Mark.com | om.au [®] Global-Mark.com.au [®] | REFERENCE No. 2 | |

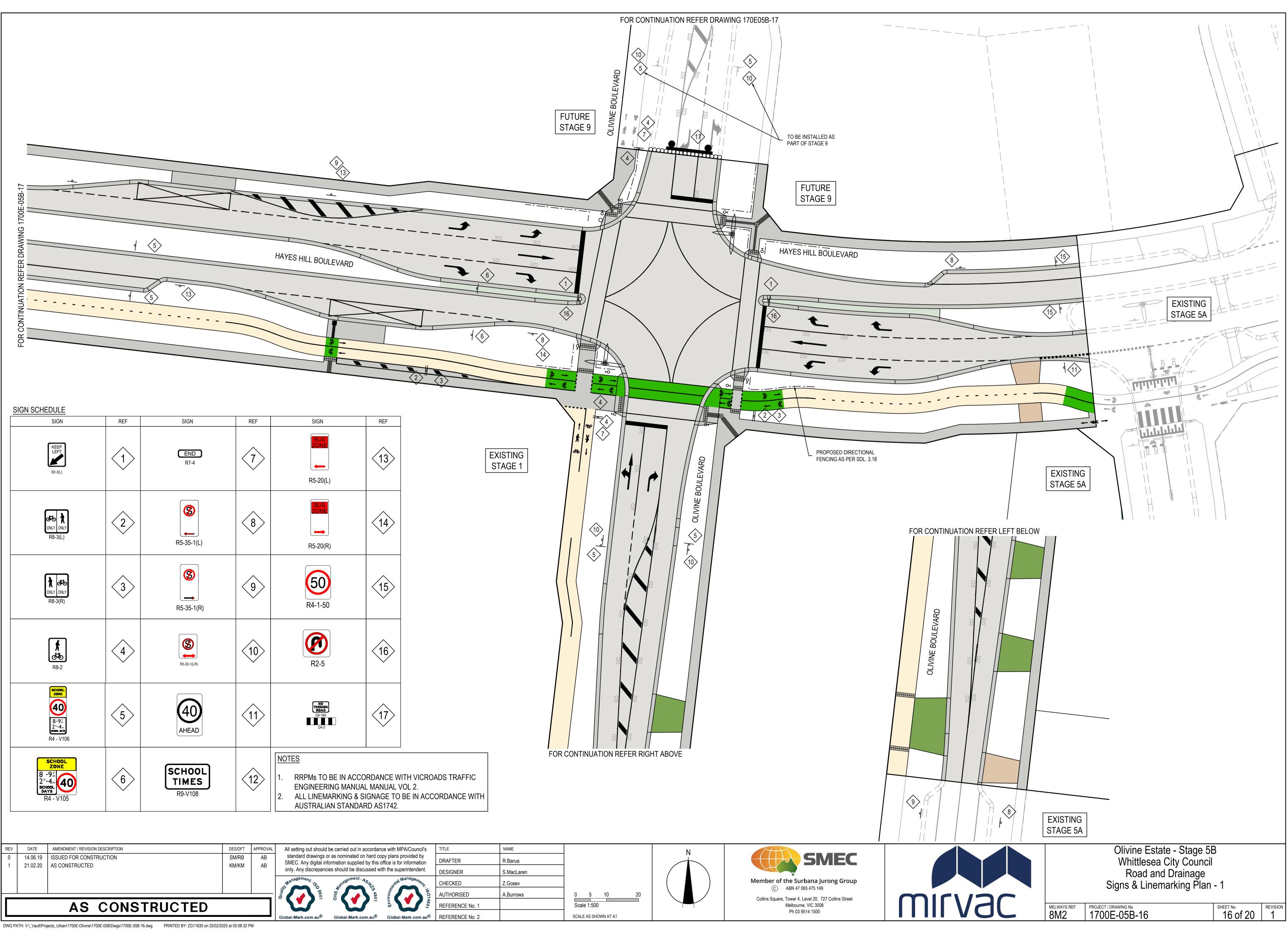
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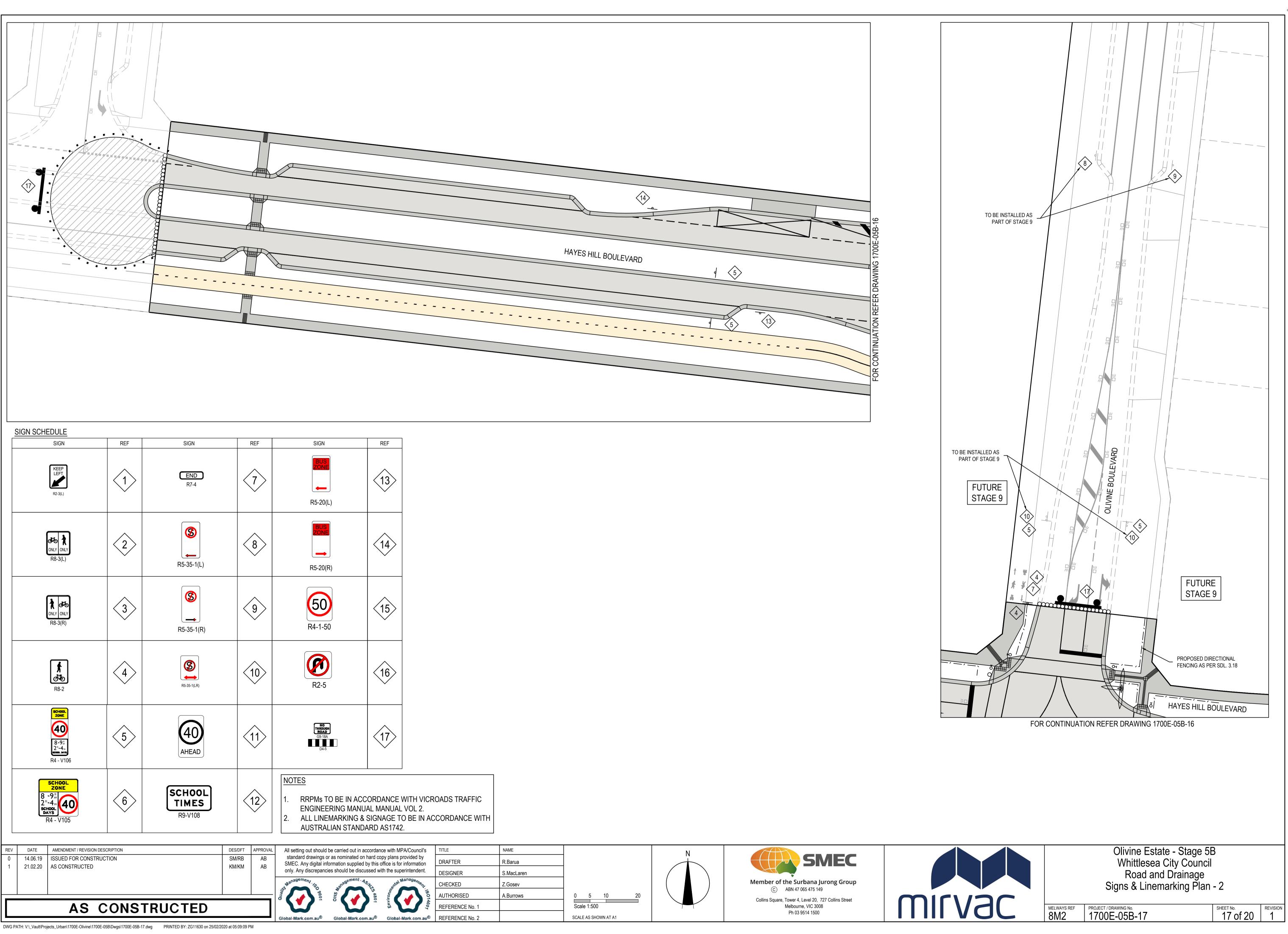
0 5 10 20 Scale 1:500 SCALE AS SHOWN AT A1

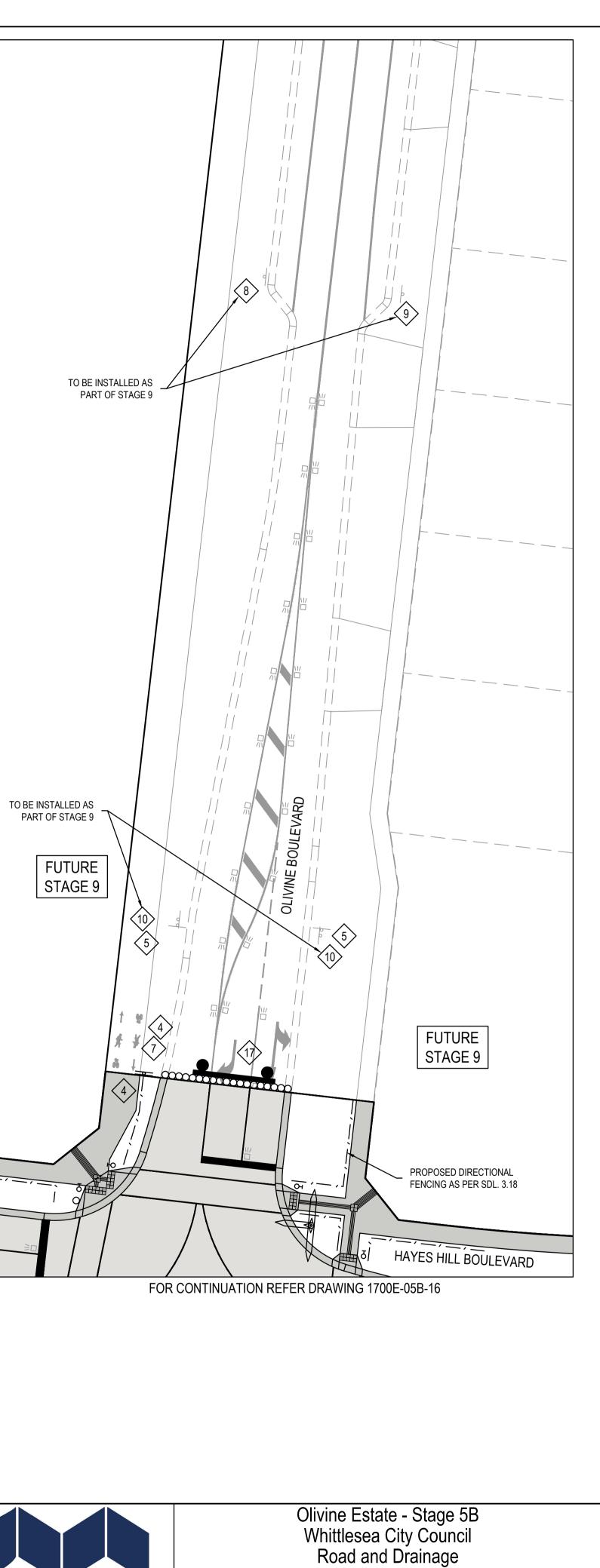


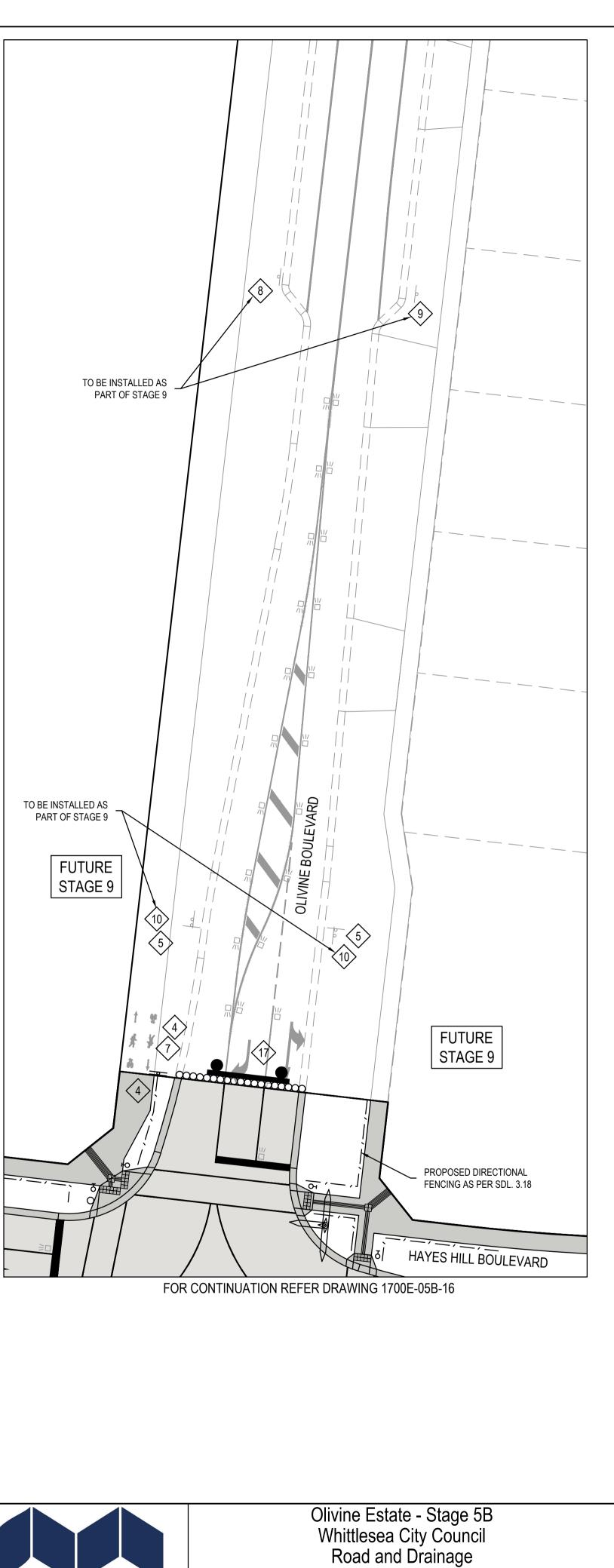


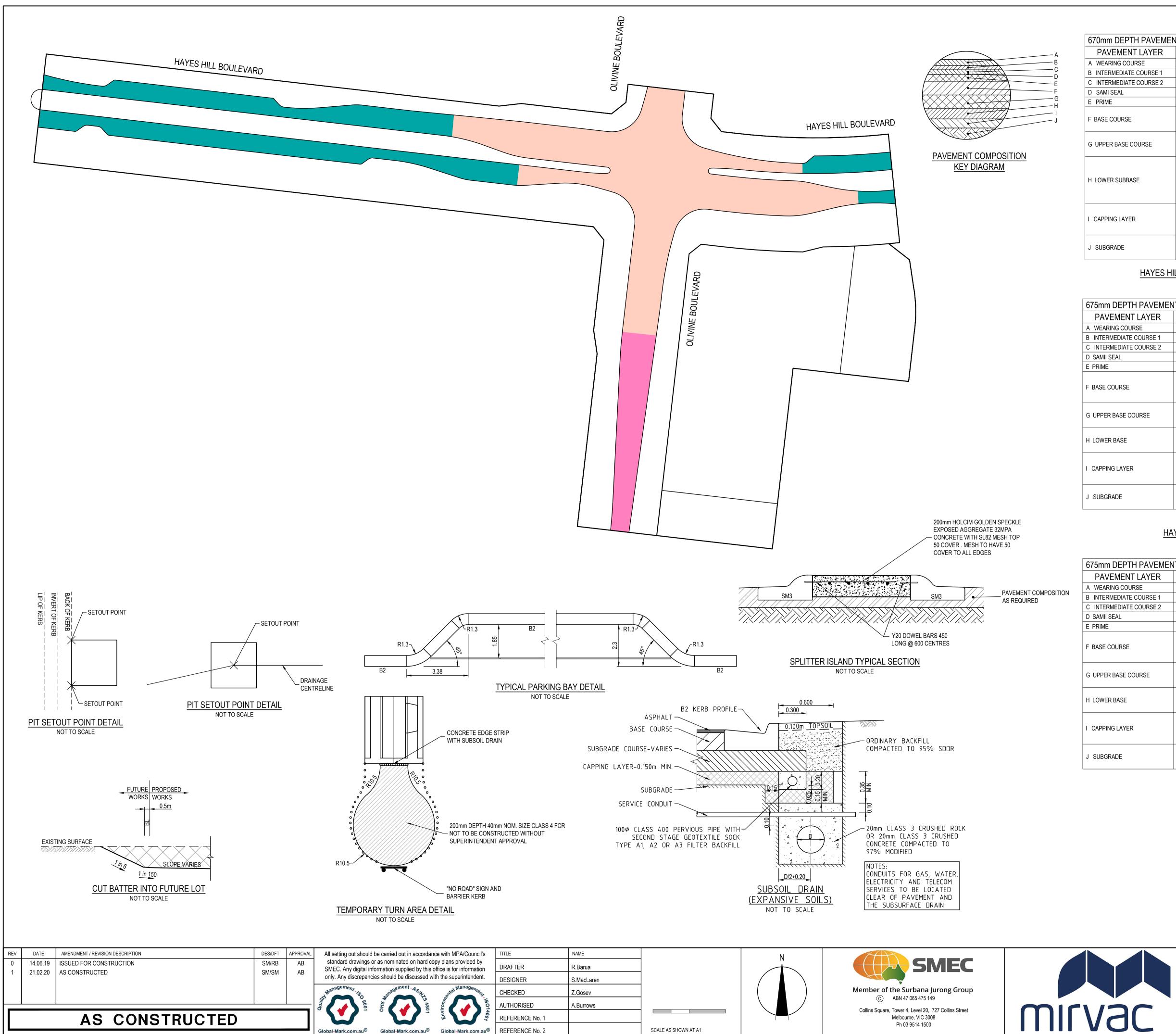












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OLIVINE BOULEVARD PAVEMENT COMPOSITION 670mm DEPTH PAVEMENT COMPOSITION PAVEMENT LAYER LAYER THICKNESS (mm) MATERIAL SIZE 10 TYPE N ASPHALT (CLASS 170 BINDER) 40 SIZE 10 TYPE N ASPHALT (CLASS 170 BINDER) 40 -10 SIZE 10 S18RF SIZE 20 CLASS 2 CRUSHED ROCK, COMPACTED TO A MINIMUM 110 DENSITY RATIO OF 98% (MODIFIED) AS1289.5.2.1 CLASS 3 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY 70 RATIO OF 98% (MODIFIED) AS1289.5.2.1 CLASS 4 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289.5.2.1. THE LOWER SUBBASE 100 LAYER MAY BE ELIMINATED AND REPLACED WITH A SINGLE UPPER SUBBASE LAYER 170mm IN THICKENESS IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% 300 PERMEABILITY k≤5x10°m/s. OR LIME STABILISED SITE WON CLAY WHICH CONFORMS TO THE PARAMETERS ABOVE. CBR 1.5% EXPANSIVE

HAYES HILL BOULEVARD (OUTSIDE OF SIGNALISED INTERSECTION) PAVEMENT COMPOSITION

| M DEPTH PAVEMEN | IT COMPOSITION | |
|--------------------|----------------------|--|
| VEMENT LAYER | LAYER THICKNESS (mm) | MATERIAL |
| ARING COURSE | 40 | SIZE 14 TYPE H ASPHALT (CLASS 320 BINDER) |
| ERMEDIATE COURSE 1 | 80 | SIZE 20 TYPE SI ASPHALT (CLASS 320 BINDER) |
| ERMEDIATE COURSE 2 | 75 | SIZE 20 TYPE SI ASPHALT (CLASS 320 BINDER) |
| II SEAL | - | - |
| 1E | - | - |
| ECOURSE | 180 | SIZE 20 CLASS 3 2% CEMENT TREATED CRUSHED ROCK COMPACTED TO A MINIMUM 98% MODIFIED DRY DENSITY RATIO AND WITHIN ±2% OF MODIFIED OPTIMUM MOISTURE CONTENT. MINIMUM YOUNG'S MODULUS OF 500 MPA. |
| ER BASE COURSE | - | - |
| ER BASE | 150 | CLASS 4 CRUSHED ROCK COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% (MODIFIED) AS1289,5.2.1 |
| PING LAYER | 150 | IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10°m/s. OR LIME STABILISED SITE WON CLAY WHICH CONFORMS TO THE PARAMETERS ABOVE. |
| GRADE | | SUBGRADE CLAY AS FOUND (C.B.R = 2%) (IF REQUIRED, SUBGRADE IMPROVEMENT WORKS TO BE UNDERTAKEN TO COUNCIL'S SATISFACTION) |

HAYES HILL BOULEVARD (SIGNALISED INTERSECTION) PAVEMENT COMPOSITION

| IM DEPTH PAVEMEN | IT COMPOSITION | |
|--------------------|----------------------|--|
| VEMENT LAYER | LAYER THICKNESS (mm) | MATERIAL |
| ARING COURSE | 40 | SIZE 14 TYPE V ASPHALT (CLASS 320 BINDER) |
| ERMEDIATE COURSE 1 | 80 | SIZE 20 TYPE SI ASPHALT (CLASS 320 BINDER) |
| ERMEDIATE COURSE 2 | 75 | SIZE 20 TYPE SI ASPHALT (CLASS 320 BINDER) |
| 111 SEAL | - | - |
| ИЕ | - | - |
| E COURSE | 180 | SIZE 20 CLASS 3 2% CEMENT TREATED CRUSHED ROCK COMPACTED TO A MINIMUM 98% MODIFIED DRY DENSITY RATIO AND WITHIN ±2% OF MODIFIED OPTIMUM MOISTURE CONTENT. MINIMUM YOUNG'S MODULUS OF 500 MPA. |
| PER BASE COURSE | - | - |
| VER BASE | 150 | CLASS 4 CRUSHED ROCK COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% (MODIFIED) AS1289,5.2.1 |
| PING LAYER | 150 | IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10°m/s. OR LIME STABILISED SITE WON CLAY WHICH CONFORMS TO THE PARAMETERS ABOVE. |
| BGRADE | | SUBGRADE CLAY AS FOUND (C.B.R = 2%) (IF REQUIRED, SUBGRADE IMPROVEMENT WORKS TO BE UNDERTAKEN TO COUNCIL'S SATISFACTION) |

Olivine Estate - Stage 5B Whittlesea City Council Road and Drainage Pavements Details

PROJECT / DRAWING No. 1700E-05B-18

MELWAYS REF

SHEET No. 18 of 20

REVISION 1

| | | HAYES HILL BOULEVARD |
|--|---|----------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| LEGEND - LAYOUT PLAN ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVE STORMWATER DRAIN, PIT & PROPERTY INLET | H EXISTING HOUSE DRAIN Ex E EXISTING ELECTRICITY (UNDER GRO | DUND) |
| MAIN DRAIN | | ZERO LOT LINES |

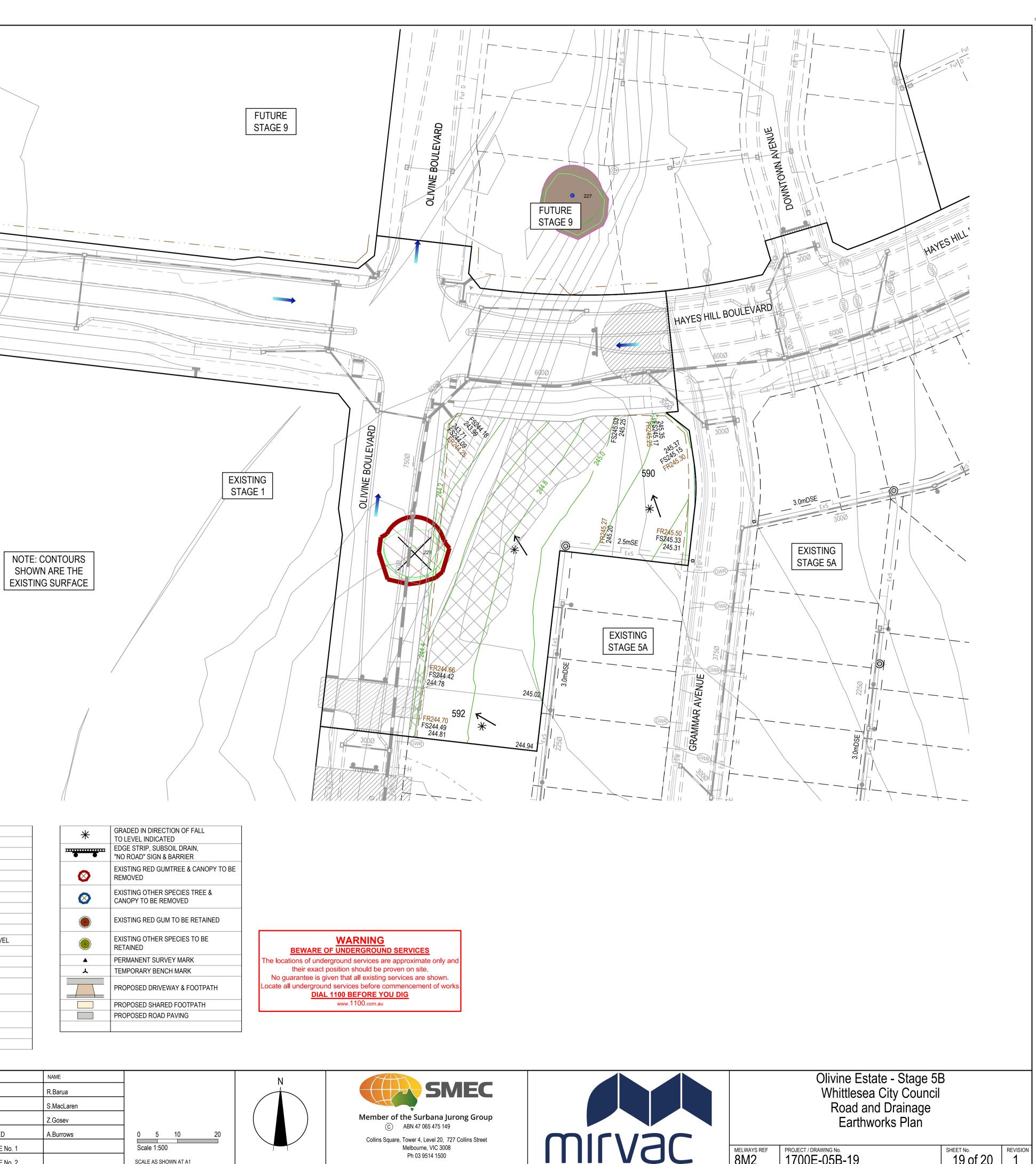
| | & PROPERTY INLET MAIN DRAIN | | | | | |
|-----------|--------------------------------|--|--|--|--|--|
| | SWALE DRAIN | | | | | |
| | | | | | | |
| | SEWER & MAINTENANCE STRUCTURES | | | | | |
| H | HOUSE DRAIN | | | | | |
| ——— E ——— | ELECTRICITY (U.GROUND) | | | | | |
| —— G —— | GAS | | | | | |
| —— T —— | TELSTRA | | | | | |
| —— W —— | WATER | | | | | |
| —— RW —— | RECYCLE WATER | | | | | |
| —— Ag —— | AG. DRAIN | | | | | |
| | TRAFFIC SIGNAL CONDUITS & PITS | | | | | |
| —@W— | SERVICE CONDUITS | | | | | |
| | TACTILE PAVERS | | | | | |
| | EXISTING STORMWATER DRAIN | | | | | |
| | EXISTING MAIN DRAIN | | | | | |
| >> | EXISTING SWALE DRAIN | | | | | |
| | | | | | | |

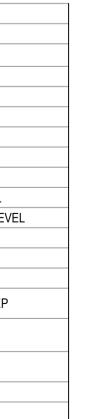
| J-tx 5 | STRUCTURES |
|-----------------------|--|
| | |
| - — — — — H | EXISTING HOUSE DRAIN |
| ——Ex E ——— | EXISTING ELECTRICITY (UNDER GROUND) |
| ——Ex G ——— | EXISTING GAS |
| ——Ex T ——— | EXISTING TELSTRA |
| ——Ex W —— | EXISTING WATER |
| —Ex RW —— | EXISTING RECYCLED WATER |
| —Ex.Ag —— | EXISTING AG. DRAIN |
| GWR | Μ |
| | EXISTING TACTILE PAVERS |
| | FUTURE STORMWATER DRAIN |
| | FUTURE MAIN DRAIN |
| _>> | FUTURE SWALE DRAIN |
|) fut s — | FUTURE SEWER & MAINTENANCE STRUCTURES |
| - — — — H | FUTURE HOUSE DRAIN |
| —Fut E —— | FUTURE ELECTRICITY (UNDER GROUND) |
| —Fut G — | FUTURE GAS |
| —-Fut T — | FUTURE TELSTRA |
| —Fut W — | FUTURE WATER |
| | |

| Fut RW — | FUTURE RECYCLED WATER |
|---------------|--|
| Fut Ag —— | FUTURE AG. DRAIN |
| -GWR | FUTURE SERVICE CONDUITS |
| | FUTURE TACTILE PAVERS |
| | ZERO LOT LINES |
| 141.34 | EXISTING SURFACE LEVEL |
| -S140.35 | FINISHED BUILDING LINE LEVEL |
| FR157.40 | FINISHED RIDGE LINE LEVEL |
| CH270.00 | CHAINAGE |
| FW159.60 | TOP OF RETAINING WALL LEVEL |
| 3W159.00 | BOTTOM OF RETAINING WALL LEV |
| | EXISTING RETAINING WALL |
| | RETAINING WALL |
| | FUTURE RETAINING WALL |
| | STRUCTURAL FILL > 200mm DEEP |
| | EXISTING STRUCTURAL FILL > 200mm DEEP |
| | CUT > 200mm DEEP |
| \rightarrow | DIRECTION OF FALL |
| | OVERLAND FLOW |
| | |

| REV | DATE | AMENDMENT / REVISION DESCRIPTION | DES/DFT | APPROVAL | All setting out should | TITLE | | |
|-----|----------|----------------------------------|---------|----------|--|---------------------|---------------------|-----------|
| 0 | 14.06.19 | ISSUED FOR CONSTRUCTION | SM/RB | AB | standard drawings o SMEC. Any digital inf | DRAFTER | | |
| 1 | 21.02.20 | AS CONSTRUCTED | SM/SM | AB | only. Any discrepanci | DESIGNER | | |
| | | | | | Management | anagement . Au | ental Management | CHECKED |
| | | | | | goo1 | SHO SHO | ironm, | AUTHORISE |
| | | AS CONSTRUCTED | | | | | 4007 | REFERENCE |
| | | | | | Global-Mark.com.au® | Global-Mark.com.au® | Global-Mark.com.au® | REFERENCE |

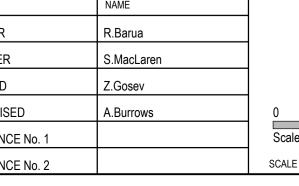
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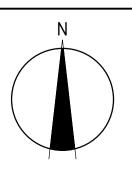


| * | GRADED IN DIRECTION OF FALL TO LEVEL INDICATED |
|--------------|--|
| • • | EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER |
| \bigotimes | EXISTING RED GUMTREE & CANOPY REMOVED |
| \bigotimes | EXISTING OTHER SPECIES TREE & CANOPY TO BE REMOVED |
| | EXISTING RED GUM TO BE RETAINED |
| | EXISTING OTHER SPECIES TO BE RETAINED |
| | PERMANENT SURVEY MARK |
| ٨ | TEMPORARY BENCH MARK |
| | PROPOSED DRIVEWAY & FOOTPATH |
| | PROPOSED SHARED FOOTPATH |
| | PROPOSED ROAD PAVING |
| | |
| | |
| | |

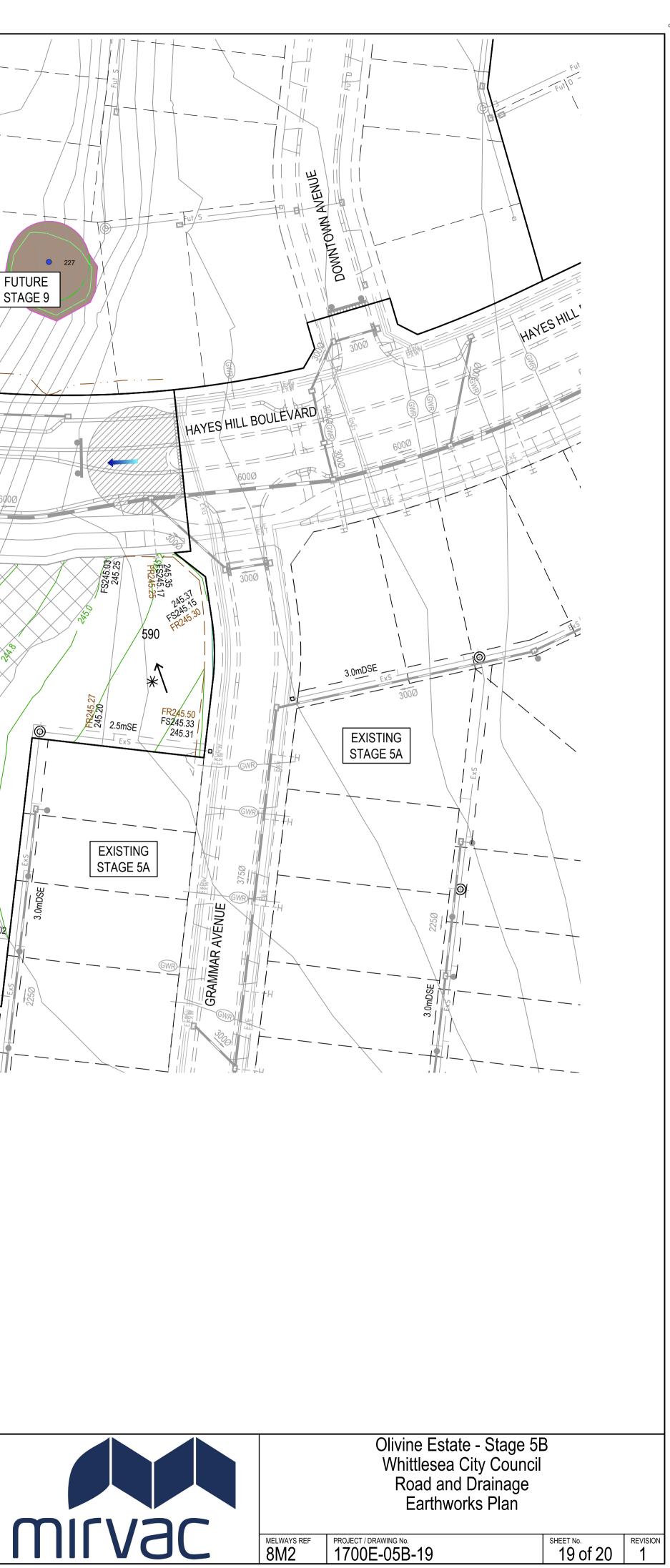
| GRADED IN DIRECTION OF FALL TO LEVEL INDICATED EDGE STRIP, SUBSOIL DRAIN, NO ROAD" SIGN & BARRIER | |
|--|--|
| EXISTING RED GUMTREE & CANOPY TO BE REMOVED | |
| EXISTING OTHER SPECIES TREE & CANOPY TO BE REMOVED | |
| EXISTING RED GUM TO BE RETAINED | |
| EXISTING OTHER SPECIES TO BE RETAINED | |
| PERMANENT SURVEY MARK | |
| EMPORARY BENCH MARK | |
| PROPOSED DRIVEWAY & FOOTPATH | |



SCALE AS SHOWN AT A1





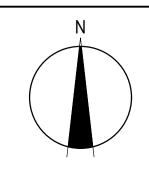


| PHASE | DISCI | PLINE CODE | | ction- Operations- Maintenance NTIAL RISK | RISK OWNER | POTENTIAL CONSEQUENCES | POTENTIAL ELIMINATION MEASURE, DESIGN INITIATIVE or CONTROL (Identify any Standard or Code of practice used) | HOW ISSUE ADDRESED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS | IS THE RISK ELIMINATED YES/NO | Residual Risk Likelihoo d (0-5) | esidual Risk onsequ ence (0-5) | Residual Risk Rating | <u>RESIDUAL</u> <u>RISK</u> <u>OWNER</u> |
|--------------|-------|------------|---|--|-----------------------|--|---|---|-------------------------------------|--|--|----------------------------|--|
| | | | Road Furniture / Roadside features | | | Disruptions to live traffic, | | | | | | | |
| Construction | RD | #N/A | Construction close to live traffic | New works will be constructed adjacent to live traffic when abutting existing stages. | Contractor | construction incident involving live traffic. | Provide safe temporary traffic control (TCP) | TCP provided within contract | Ν | 5 | 3 | 15 | Constructor |
| Construction | RD | #N/A | Culverts | Potential risk from culverts under construction and height / fall hazards | Contractor | Falling from a height | Temporary barriers to be provided | Temporary barrier provided in contract | Ν | 2 | 5 | 10 | Constructor |
| Construction | US | #N/A | Utilities become a hazard within clear zones | Vehicle conflict with utility / pit | Contractor | Personal injury, vehicle damage | Sequence works and protect with temp barrier or traffic control (TCP) | TCP provided within contract | Ν | 1 | 5 | 5 | Constructor |
| Operational | RD | #N/A | Sight Lines | Inadequate drivers response time. | Road Authority | Increased potential for accidents | Ensure design complies with relevant standard. Undertake thorough Safety Audit | Vis lines checked and discussed with approval authority as part of design approval process | Ν | 1 | 4 | 4 | Road Authority |
| Operational | LS | #N/A | Signs and street lights | Potential for drivers / riders to strike signs and street lights | Road Authority | Increased potential for accidents | Ensure design complies with relevant standard. Undertake thorough Safety Audit | Refer to appropriate standard for sign and lighting offsets | Ν | 1 | 4 | 4 | Road Authority |
| Operational | RF | #N/A | Headwalls | Potential vehicle conflict within clear zone | Road Authority | Increased potential for accidents | Establish adequate clear zone provision | Adequate barrier provided as per appropriate standard where within clear zone. Culvert headwall selection in accordance with authority standard | Ν | 2 | 4 | 8 | Road Authority |
| Operational | RD | #N/A | Culverts | Potential fall hazard during maintenance, by vechicles and pedestrians | Relevant Authority | Falling from a height | Barriers to be provided in accordance with road standards | Barriers to be provided and safe batter slopes (>1:3) | Ν | 2 | 5 | 10 | Constructor |
| | | | Retaining Walls | | | | | | | | | | |
| Construction | RW | #N/A | Retaining Wall Alignment | Falling from height during construction or commissioning of walls and adjacent structures eg. sewer manholes | Contractor | Falling from a height | Provide temporary and permanent fencing at top of wall. | Provide fencing (at heights) during design process | N | 1 | 1 | 1 | Constructor |
| Operational | RW | #N/A | Retaining Wall Alignment | Lack of safe access/setback from road | Road/ Local Authority | Increased potential for accidents | Establish adequate and accessible clear zone provision. Provide guardrail where required | Wall located in suitable position during design process and approved by authority | Ν | 1 | 1 | 1 | Authority |
| Operational | RW | #N/A | Retaining Wall Height | Potential for falling from height | Road/ Local Authority | Personal injury | Provide temporary and permanent fencing at top of wall. | Provide fencing (at heights) during design process | Ν | 1 | 5 | 5 | Authority |
| Operational | RW | #N/A | Retaining Wall Design | Potential for wall failure | Road/ Local Authority | Increased potential for accidents | Structural design in accordance with standards, geotechnical conditions, end use and good practise. | Refer to structural drawings and calculations | Ν | 1 | 5 | 5 | Authority |
| | | | Drainage | | | | | | | | | | |
| Operational | DR | #N/A | Grated Pits | Trip/fall hazard with large spaced grate | Relevant Authority | Increased potential for accidents | Provide pedestrian/bicycle friendly grates where applicable. Refer to pit schedule | Design in accordance with authority and manufacturers standards | Ν | 3 | 2 | 6 | Authority |
| Operational | DR | #N/A | Non Standard Large Pits | Potential for pit failure | Relevant Authority | Increased risk to maintenance crews/ vehicles | Structural design in accordance with relevant design principles. | Refer to structural drawings and calculations | Ν | 1 | 4 | 4 | Authority |
| Operational | DR | #N/A | Culvert Endwalls/Headwalls | Potential for falling from height | Relevant Authority | Increased potential for accidents | Fencing to be provided where culverts/headwalls are at height in accordance with relevant authority standards | Allow for fencing in Design Process | Ν | 1 | 4 | 4 | Authority |
| Operational | DR | #N/A | Culvert Endwall/Headwall Outlets | Children playing in large pipes / watercourses and access for maintenance | Relevant Authority | Increased potential for accidents | Grate provided to authority standards | Design in accordance with authority and manufacturers standards | Ν | 2 | 5 | 10 | Authority |
| Maintenance | DR | #N/A | Access to Pits | Lack of safe access for maintenance | Relevant Authority | Increased risk to maintenance crews | Provide safe working conditions for maintenance. Provide safe landing/ access arrangements as per relevant authority standards | Where possible design pit in location for easy access and outside of permanent water bodies | Ν | 2 | 5 | 10 | Authority |
| Maintenance | DR | #N/A | Deep Pits | Lack of safe entry for maintenance | Relevant Authority | Increased potential for accidents | Contractor to be certified for work in confined spaces, step irons to be provided to appropriate authority standards. Refer to pit schedule | Design in accordance with authority standards | N | 1 | 5 | 5 | Authority |
| Maintenance | DR | #N/A | Access to drains / culverts | Lack of safe access for maintenance | Relevant Authority | Increased risk to maintenance crews | Provide safe working conditions for maintenance. Access as approved by authority | Design pit in location for easy access as agreed with authority | N | 2 | 3 | 6 | |
| | | | Sewer | | | | | | | | | | |
| Construction | SE | #N/A | Sewer Manhole located adjacent to Retaining Wall Alignment | Falling from height during construction or commissioning of adjacent sewer manholes | Contractor | Falling from a height | Provide temporary fencing until such time that permanent fencing is constructed | Provide fencing (at heights) during design process | Ν | 1 | 1 | 1 | Constructor |
| Maintenance | SE | #N/A | Deep Manholes | Lack of safe entry for maintenance | Relevant Authority | Increased potential for accidents | Contractor to be certified for work in confined spaces, landings and step access provided as per authority standards and schedule | Design in accordance with authority standards. Refer pit schedule on drawings | Ν | 1 | 5 | 5 | Authority |
| Maintenance | SE | #N/A | Access to Manholes | Lack of safe access for maintenance | Relevant Authority | Increased risk to maintenance crews | Provide safe working conditions for maintenance. Manholes located in compliance with authority standards | Where possible design manhole in location for easy access | Ν | 1 | 5 | 5 | Authority |
| Maintenance | SE | #N/A | Pump Station Access | Lack of safe access for maintenance | Relevant Authority | Increased risk to maintenance crews | Provide safe working conditions for maintenance | Design pump station in location for easy access | Ν | 2 | 4 | 8 | Authority |
| | | | Electricity | | | | | | | | | | |
| Operational | ES | #N/A | Electrical Design | Location of assets within clear zones e.g pits/ substations | Relevant Authority | Increased potential for accidents | Electrical designed by sub consultant with appropriate accreditation and in accordance with authority standards | Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided | Ν | 2 | 3 | 6 | Authority |
| | | | Telstra | | | | | | | | | | |
| Operational | TE | #N/A | Telstra Design | Location of assets within clear zones e.g pits | Relevant Authority | Increased potential for accidents | Telecommunications designed by authority consultant with appropriate accreditation and in accordance with authority standards | Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided | Ν | 2 | 3 | 6 | Authority |
| | | | Water | | | | | | | | | | |
| Operational | WA | #N/A | Water Design | Location of assets within clear zones e.g pits/ substations | Relevant Authority | Increased potential for accidents | Water pits designed in accordance with authority standards | Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided | Ν | 2 | 3 | 6 | Authority |
| | | | Gas | | | | | | | | | | |
| Operational | GA | #N/A | Gas Design | Location of assets within clear zones e.g pits/ substations | Relevant Authority | Increased potential for accidents | Water pits designed in accordance with authority standards | Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided | Ν | 1 | 1 | 1 | Authority |
| | | | | | | | | | | | | 0 | |

| REV | DATE | AMENDMENT / REVISION DESCRIPTION | DES/DFT | APPROVAL | All setting out should be carried out in accordance with MPA/Council's | | | TITLE |
|-----|----------|----------------------------------|---------|----------|--|---------------------|---------------------|-----------------|
| 0 | 14.06.19 | ISSUED FOR CONSTRUCTION | SM/RB | AB | standard drawings o SMEC. Any digital info | DRAFTER | | |
| 1 | 21.02.20 | AS CONSTRUCTED | SM/SM | AB | only. Any discrepanci | DESIGNER | | |
| | | | | | Wanagement in | anagement . 40 1 | antal Management | CHECKED |
| | | | | | goog of the second second | SHO SHO | NS01 | AUTHORISED |
| | | AS CONSTRUCTED | | | | | 4007 | REFERENCE No. 1 |
| | | | | | Global-Mark.com.au® | Global-Mark.com.au® | Global-Mark.com.au® | REFERENCE No. 2 |

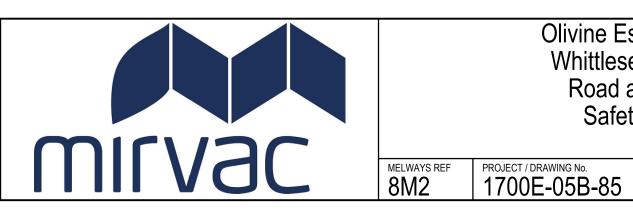
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NAME R.Barua S.MacLaren Z.Gosev A.Burrows ED CE No. 1





Collins Square, Tower 4, Level 20, 727 Collins Street Melbourne, VIC 3008 Ph 03 9514 1500



SCALE AS SHOWN AT A1

Olivine Estate - Stage 5B Whittlesea City Council Road and Drainage Safety in Design

SHEET No. REVISION 1