



INSTALL 150mm LIMSTONE SPALLA TO BE LAID IN 200mm THICK (MIN) BED OF CREME CONCRETE AND POINTED UP WITH A BRUSH FINISH. SPALLS TO PROTRUDE 40mm MIN ABOVE MORTAR.

INSTALL A AHEAD WALL SUITABLE TO 375mm DIAMETER PIPE

PROPOSED
U.S. 3.60m
DIA. 375mm
GRADE 100
LENGTH 13.10m
PIPE RC4
D.S. 3.47m

PROPOSED
U.S. 3.88m
DIA. 300mm
GRADE 100
LENGTH 2.45m
PIPE RC3
D.S. 3.68m

PROPOSED
U.S. 3.68m
DIA. 300mm
GRADE 100
LENGTH 2.00m
PIPE RC3
D.S. 3.66m

PROPOSED
U.S. 4.19m
DIA. 300mm
GRADE 100
LENGTH 2.40m
PIPE RC3
D.S. 4.17m

PROPOSED
U.S. 4.17m
DIA. 300mm
GRADE 100
LENGTH 2.11m
PIPE RC3
D.S. 4.15m

PROPOSED
U.S. 4.48m
DIA. 300mm
GRADE 100
LENGTH 2.40m
PIPE RC3
D.S. 4.46m

PLAN
SCALE 1:250

NOTES

- THIS DRAWING USES AUSTRALIAN HEIGHT DATUM AND PERTH COASTAL GRID COORDINATES.
- LOCATE ALL LEVELS FROM EXISTING SURVEY MARKS.
- ALL SURVEY MARKS ARE TO BE PROTECTED.
- SERVICES SUCH AS SEWER, WATER, GAS, TELEPHONE, ELECTRICITY, OPTICAL FIBRE AND DRAINAGE MAY BE ENCOUNTERED DURING CONSTRUCTION OF WORKS. SERVICES INFORMATION SHOWN ON DRAWINGS IS INDICATIVE ONLY. THE LOCATION OF ALL AFFECTED SERVICES SHALL BE OBTAINED FROM RELEVANT AUTHORITIES AND LOCATED BY TEST HOLES ON SITE PRIOR TO CONSTRUCTION WITH ANY CONFLICTS TO BE REPORTED TO THE DESIGNER IMMEDIATELY.
- KERBING TO BE INSTALLED BY TYPE AS PER ADJACENT DETAIL.
- TRANSITION BETWEEN DIFFERENT KERB TYPES SHALL BE MADE OVER A NOMINAL LENGTH OF 2.0m
- CONCRETE WORK TO USE N32 STRENGTH GRADE FOR 32MPa COMPRESSIVE STRENGTH AT 28 DAYS.
- ASPHALT TO BE 40mm THICK DENSELY GRADED AC14/10/7 TO 75/50/35 MARSHAL BLOWS USING RESIDUAL BINDER CLASS C320/C170 BITUMEN.
- MAINTAIN THE SITE IN A SAFE CONDITION FOR ALL ROAD USERS. THIS MAY REQUIRE THE APPROPRIATE USE OF TEMPORARY SIGNING AND PAVEMENT MARKING UNTIL THE PERMANENT SIGNS AND PAVEMENT MARKING IS INSTALLED.
- VERGES TO BE REINSTATED ORGANIC SOIL UPON WORKS COMPLETION. INCLUDING ALL RETICULATION AS REQUIRED.
- RAMPS TO BE BUILT AS PER TYPE SPECIFIED ON PLAN. REFER TO MRWA DRAWING 9831-5649 FOR RAMP TYPE DETAILS.
- TACTILE PAVERS TO BE INSTALLED IN ACCORDANCE WITH AS1428.
- ALL CONNECTIONS TO EXISTING WORK SHALL BE SMOOTH AND OF NEAT APPEARANCE.
- DRAINAGE STRUCTURES TO HAVE CLASS "D" TRAFFICABLE LIDS.
- TREE NEXT TO THE PIT NO.S2 TO BE REMOVED BY THE DRAINAGE CONTRACTOR. ENSURE STUMPS & ROOTS ARE REMOVED FROM THE SITE.

ROCK PROTECTION

REFER MAIN ROADS DRAWING NUMBER 200131-064-4 FOR ROCK PROTECTION NEXT TO THE HEADWALL.

TURF REINSTATEMENT

TURF IS TO BE CUT IN SODS OR RACKS, REMOVED AND TACKED PRIOR TO EXCAVATION FOR REUSE WHERE PRACTICABLE WITHIN 24 HOURS OF EXCAVATION, OTHERWISE REMOVE AND DISPOSE OF THE TURF OFF-SITE.

WHERE CUT LAWN CANNOT BE RELAYED WITHIN 24 HOURS OF REMOVAL, NEW ROLL ON INSTANT TURF KIKUYU MUST BE INSTALLED AND LEVEL IMMEDIATELY AFTER BACKFILL OF THE TRENCHES, EXCAVATION AND FORMATION WORKS TO THE INTO SURROUNDING LEVELS.

APPLICATION AND ESTABLISHMENT OF ROLL ON INSTANT TURF TO THE CITY'S SPECIFICATION.

IRRIGATION REINSTATEMENT:

THE CONTRACTOR IS TO ALLOW FOR REINSTATEMENT OF IRRIGATION MAINS IF AFFECTED BY THE WORKS TO THE SATISFACTION OF THE CITY. REINSTATED IRRIGATION LINES ARE TO BE REPLACED LIKE-FOR-LIKE IN THE PRE-EXISTING /NOMINATED ALIGNMENT WITH NOMINAL 600mm COVE. IRRIGATION LATERAL LINES ARE TO BE INSTALLED LIKE-FOR-LIKE IN THE SAME/NOMINATED ALIGNMENT WITH NOMINAL 450mm MINIMUM COVER. THE REINSTATED SPRINKLERS ARE TO BE INSTALLED LIKE-FOR-LIKE AND ADJUSTED TO SUIT FINISH LEVEL. REFER TO IRRIGATION DRAWING D23/188571, SCHEDULE AND THE CITY'S SPECIFICATION.

THE CONTRACTOR IS TO COORDINATE WITH THE CITY'S IRRIGATION SUPERVISOR TO INSPECT THE REINSTATED IRRIGATION PRIOR TO BACKFILLING AS A HOLD POINT. ANY IRRIGATION THAT HAS BEEN BACKFILLED PRIOR TO INSPECTION WILL NEED TO BE RE-EXPOSED AT THE CONTRACTORS EXPENSE. ANY IRRIGATION LINES WHICH ARE DAMAGED DURING THE WORKS MUST BE REINSTATED IMMEDIATELY PRIOR TO BACKFILL OF THE EXCAVATION. PIPE MUST BE CUT AND CAPPED TO ALLOW USE OF THE SYSTEM DURING WORKS.

DANGER:
UNDERGROUND GAS
MAIN IN THIS LOCATION

DANGER:
UNDERGROUND POWER
IN THIS LOCATION

DANGER:
UNDERGROUND WATER
MAIN IN THIS LOCATION

DANGER:
UNDERGROUND SEWER
MAIN IN THIS LOCATION

DANGER:
UNDERGROUND TELSTRA
LINE IN THIS LOCATION

DANGER:
UNDERGROUND
RETICULATION LINE IN
THIS LOCATION



REVISIONS			
NO.	DESCRIPTION	DATE	SIGNED
0	ISSUED FOR APPROVAL	20/09/23	SP
1	ISSUED FOR PRICING	28/09/23	SP

PROJECT INTERSECTION OF NOONAN RD. AND CAMBRIDGE CR. COOLOONGUP DRAINAGE UPGRADE
TITLE DRAINAGE PLAN



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DESIGNED	S.PERERA	25/08/23
DRAWN	S.PERERA	25/08/23
CHECKED	H.WONG	04/09/23
APPROVED	T.ALBAZ	20/09/23
DRAWING NO	02721-DR3	REVISION 1