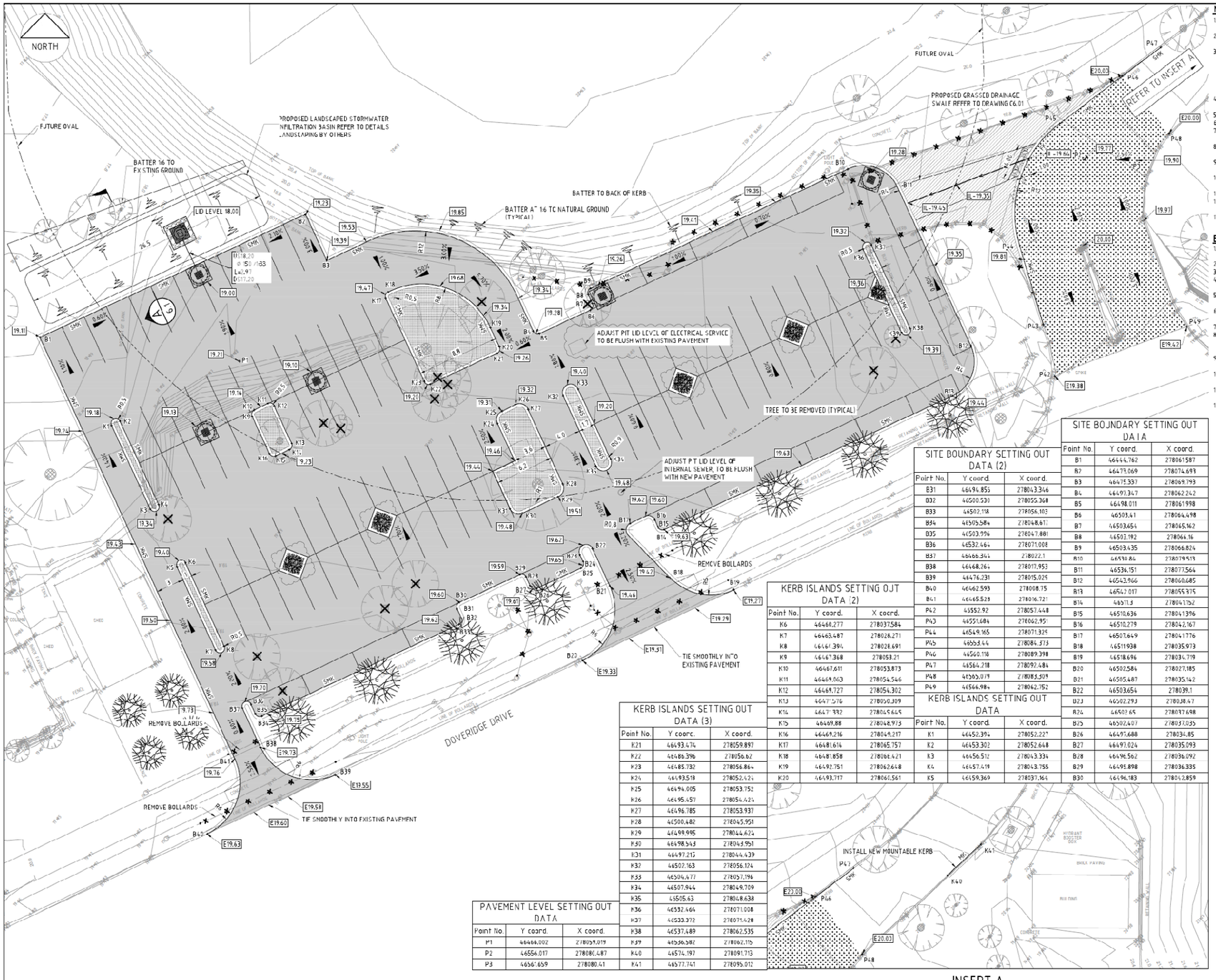
APPENDIX 4

Location plan

ATTACHMENT 1



NOTES

1. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, BUT WHERE NO DETAIL PROVIDED, TO THE REQUIREMENTS OF THE CITY OF JOONDALUP.
2. THE CONTRACTOR SHALL LOCATE ALL LEVELS FROM ESTABLISHED BENCH MARKS. ALL BENCH MARKS ARE TO BE PROTECTED AND PRESERVED.
3. SERVICES SUCH AS WATER, GAS, TELSTRA, ELECTRICITY, SEWER AND DRAINAGE MAY BE ENCOUNTERED DURING CONSTRUCTION OF THE WORKS. SERVICES INFORMATION SHOWN ON THE DRAWINGS IS INDICATIVE ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL LIAISE WITH ALL RELEVANT AUTHORITIES TO LOCATE ALL EXISTING SERVICES WITHIN THE CONTRACT AREA PRIOR TO THE COMMENCEMENT OF WORK. WHERE EXISTING AND PROPOSED WORKS INTERSECT, LEVELS ARE TO BE TAKEN AND SUPPLIED TO THE SUPERINTENDENT.
4. ALL KERBING TO BE SEMI MOUNTABLE TYPE UNLESS OTHERWISE SHOWN (ALL KERBING ON A RADIUS OF 40m OR LESS MUST BE KEYED)
5. TRANSITIONS BETWEEN DIFFERENT KERB SECTIONS SHALL BE MADE OVER A LENGTH OF 2m
6. ALL CONSTRUCTION SHALL MAKE SMOOTH CONNECTION TO EXISTING WORK.
7. STORMWATER DRAINAGE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE STORMWATER DRAINAGE SPECIFICATIONS.
8. STORMWATER PIPES ARE TO BE REINFORCED CONCRETE RUBBER JOINT (CLASS – 2) UNLESS OTHERWISE NOTED
9. ALL MANHOLES AND GULLY GRATES TO BE FLUSH WITH SURROUNDING PAVEMENT LEVELS UNLESS OTHERWISE NOTED
10. JUNCTION AND ENTRY PITS ARE TO BE LOCATED IN POSITIONS SHOWN, IRRESPECTIVE OF THE INDICATED PIPE LENGTHS.
11. ALL PAVEMENT TO BE CONSTRUCTED USING BLACK ASPHALT UNLESS OTHERWISE NOTED
12. ALL EXCAVATED AND DEMOLISHED MATERIAL IS TO BE DISPOSED OF TO AN APPROVED DISPOSAL SITE AT THE CONTRACTORS COST
13. "AS CONSTRUCTED" DRAWINGS ARE TO BE PREPARED TO THE REQUIREMENTS OF THE SPECIFICATION

EARTHWORKS NOTES

1. ALL HEIGHTS ARE TO AHD. ALL LEVELS SHALL BE LOCATED FROM ESTABLISHED BENCHMARKS
2. THE SITE IS TO BE LEFT CLEAN AND FREE OF RUBBISH/DEBRIS UPON COMPLETION OF WORKS
3. NO CLEARING TO OCCUR UNTIL SUPERINTENDENT HAS IDENTIFIED TREES TO BE RETAINED.
4. TOPSOIL ON SITE IS TO BE REMOVED TO A DEPTH OF 100mm AND RE-USED IN ISLANDS. EXCESS TO BE REMOVED FROM SITE
5. ALL ROOTS, BOULDERS AND ANY OTHER DELETERIOUS MATERIAL SHALL BE TOTALLY REMOVED TO A DEPTH OF 600mm BELOW THE NATURAL SURFACE.
6. DUST SUPPRESSION METHODS SHALL BE APPLIED BY THE CONTRACTOR DURING EARTHWORKS OPERATIONS (REFER SPECIFICATION)
7. ALL FILL SHALL BE CLEAN AND BE FREE FROM DELETERIOUS AND/OR ORGANIC MATERIAL
8. FILL SHALL BE TESTED BY THE CONTRACTOR TO BE TESTED BY AN APPROVED MATERIALS TESTING LAB. PENETROMETERS USED FOR TESTING MUST BE RECALIBRATED FOR SAMPLES SELECTED FOR FILL
9. ALL FILL SHALL BE PLACED IN UNIFORM LAYER NOT EXCEEDING 300mm THICKNESS AND COMPACTED TO A DENSITY NOT LESS THAN 95% M.M.D.D.
10. MINOR AMENDMENTS TO THE EXTENT OF EARTHWORKS MAY OCCUR TO PRESERVE IDENTIFIED TREES.
11. CONTRACTOR TO COMPLETE ALL BACKFILLING AND EARTHWORKS REQUIRED TO ACHIEVE LEVELS SHOWN.
12. ALL BATTERS TO BE NOMINALLY 1 IN 6, OR GREATER, UNLESS OTHERWISE NOTED

LEGEND

- PROPOSED PAVEMENT
- EXISTING ASPHALT TO BE PROFILED OFF, BUILD UP TO NEW LEVELS WITH CLEAN FILL & LAY NEW PAVEMENT FORMATION AND ASPHALT
- PROPOSED LANDSCAPED ISLAND BY OTHERS
- STONE PITCHING
- EXISTING ASPHALT TO BE REMOVED & DISPOSED OF OFF-SITE, REPLACE WITH GRASS TO NEW LEVELS
- DRAINAGE SWALE REFER TO DRAWING C6.01
- FUTURE OVAL
- X.XX PROPOSED PAVEMENT LEVEL
- EX.XX EXISTING PAVEMENT LEVEL
- 1.8M x 2.4m DEEP SOAKWELL WITH GRATED LID
- BUBBLE - UP GULLY REFER TO DRAWING C6.01
- CAR PARK TREE WELL REFER TO DRAWING C1.02
- MK, SMK, FK PROPOSED KERBING (TYPE DEFINED BY TEXT)
  - MK SEMI-MOUNTABLE KERB TYPE
  - SMK FLUSH KERB (REINFORCED) TYPE
  - FK 2m KERB TRANSITION
- PROPOSED PRAM RAMP
- 2.00% DIRECTION & GRADE OF PAVEMENT FALL
- EXISTING TREE TO BE REMOVED
- KERB TO BE REMOVED
- LINE OF BOLLARDS TO BE REMOVED
- 20.4 EXISTING CONTOUR
- 19.0 EXISTING LEVELS
- DUS: UPSTREAM INVERT LEVEL; Ø: STORMWATER PIPE DIAMETER; L=: LENGTH OF PIPE; DDS: DOWNSTREAM INVERT LEVEL
- PROPOSED TREES BY OTHERS

DIAL 1100 BEFORE YOU DIG

PRELIMINARY
NOT FOR CONSTRUCTION

NOTE
CONTRACTOR TO CHECK ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS. CONTRACTOR TO OBTAIN COUNCIL APPROVAL AND PAY ALL FEES/BONDS PRIOR TO COMMENCEMENT OF ANY WORKS WITHIN THE ROAD RESERVE.

NOTE: ALL CO-ORDINATES SHOWN ON THIS DRAWING SHALL BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPENCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

SITE BOUNDARY SETTING OUT DATA (2)

Point No.	Y coord.	X coord.
B31	46494.855	278043.346
B32	46500.530	278055.368
B33	46502.118	278056.103
B34	46505.584	278048.671
B35	46503.994	278047.881
B36	46532.464	278071.008
B37	46466.344	278022.1
B38	46468.264	278017.953
B39	46476.231	278015.025
B40	46462.593	278008.75
B41	46465.523	278016.721
P42	46552.92	278057.448
P43	46551.684	278062.951
P44	46549.165	278071.324
P45	46553.44	278084.373
P46	46560.118	278089.398
P47	46564.218	278092.484
P48	46565.019	278083.509
P49	46566.984	278062.752

SITE BOUNDARY SETTING OUT DATA

Point No.	Y coord.	X coord.
B1	46444.762	278061.587
B2	46473.069	278074.693
B3	46475.337	278069.793
B4	46491.347	278062.242
B5	46498.011	278061.998
B6	46503.41	278064.498
B7	46503.654	278065.162
B8	46503.192	278066.16
B9	46503.435	278066.824
B10	46530.86	278079.519
B11	46534.151	278077.564
B12	46543.966	278060.685
B13	46547.017	278055.375
B14	46511.3	278041.152
B15	46510.636	278041.396
B16	46510.279	278042.167
B17	46507.649	278041.776
B18	46511.938	278035.973
B19	46518.696	278034.719
B20	46502.584	278027.185
B21	46505.487	278035.142
B22	46503.654	278039.1
B23	46502.293	278038.47
B24	46507.65	278037.698
B25	46502.407	278037.035
B26	46497.688	278034.85
B27	46497.024	278035.093
B28	46496.562	278036.092
B29	46495.898	278036.335
B30	46496.183	278042.859

KERB ISLANDS SETTING OUT DATA (2)

Point No.	Y coord.	X coord.
K6	46468.277	278037.584
K7	46463.487	278028.271
K8	46461.394	278028.691
K9	46467.368	278053.21
K10	46467.611	278053.873
K11	46469.803	278054.546
K12	46469.727	278054.302
K13	46477.576	278050.309
K14	46477.332	278049.665
K15	46469.88	278048.913
K16	46469.216	278049.217
K17	46481.614	278065.757
K18	46481.858	278066.421
K19	46492.751	278062.648
K20	46493.717	278061.561

KERB ISLANDS SETTING OUT DATA

Point No.	Y coord.	X coord.
K1	46452.394	278052.227
K2	46453.302	278052.648
K3	46456.512	278043.334
K4	46457.419	278043.755
K5	46459.369	278037.164

KERB ISLANDS SETTING OUT DATA (3)

Point No.	Y coord.	X coord.
K21	46493.474	278059.897
K22	46486.396	278056.62
K23	46485.732	278056.864
K24	46493.518	278052.424
K25	46494.005	278053.752
K26	46495.457	278054.424
K27	46496.785	278053.937
K28	46500.482	278045.951
K29	46499.995	278044.624
K30	46498.543	278045.951
K31	46497.215	278044.439
K32	46502.163	278056.124
K33	46504.477	278057.196
K34	46507.944	278049.709
K35	46505.63	278048.638
K36	46532.464	278071.008
K37	46533.372	278071.428
K38	46537.489	278062.535
K39	46536.582	278062.115
K40	46574.197	278091.713
K41	46577.741	278095.012

PAVEMENT LEVEL SETTING OUT DATA

Point No.	Y coord.	X coord.
P1	46466.002	278059.019
P2	46556.017	278080.487
P3	46561.659	278080.41

INSERT A

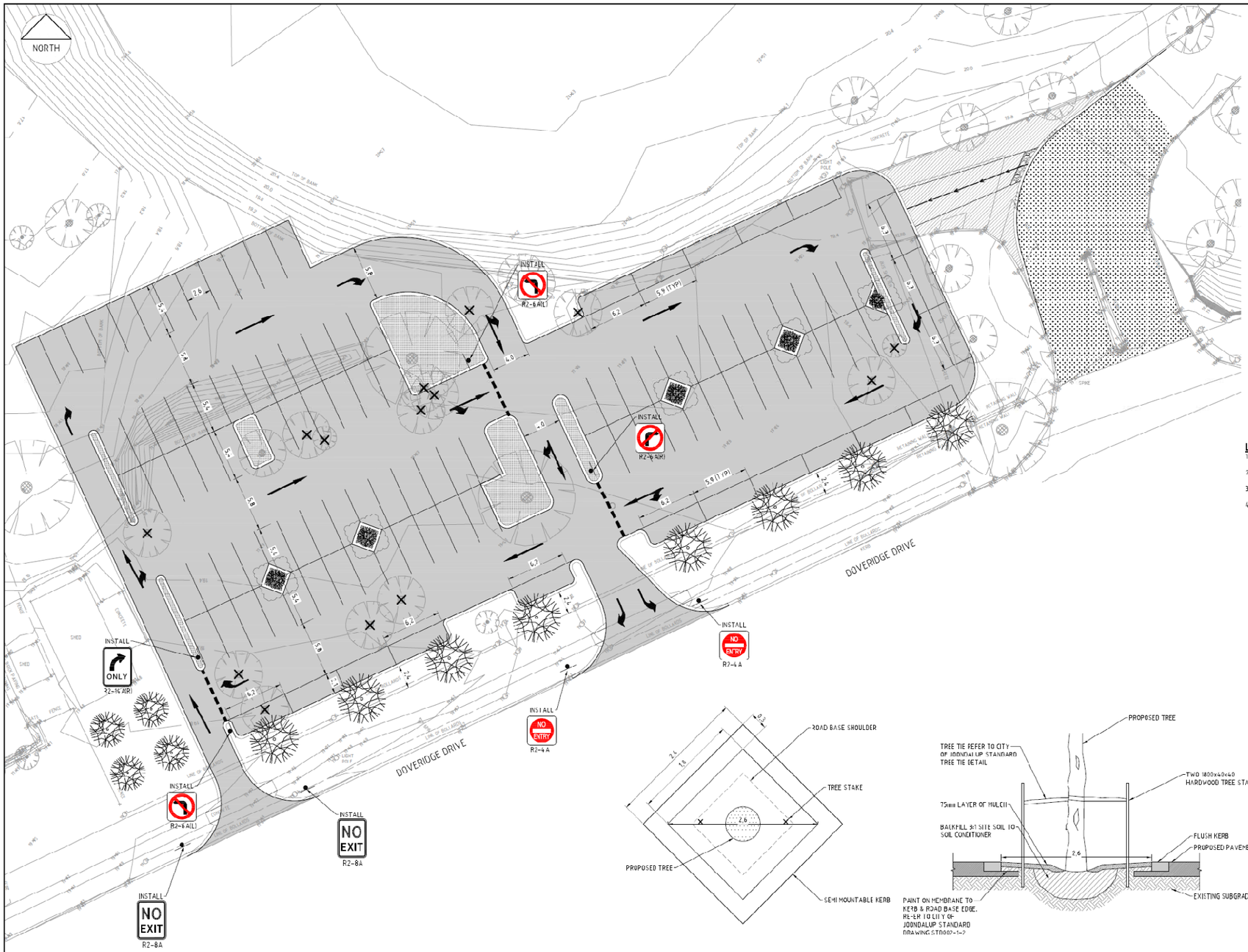
F	29/08/13	TRFFS INCLUDED AT TRFF WELLS & ELECTRICAL SERVICE INCLUDED			
D	26/08/13	PARKING LAYOUT & KERB ISLANDS MODIFIED			
C	06/12/12	FUTURE OVAL REPRESENTED, NEW TREE SYMBOL MODIFIED			
B	03/12/12	LAYOUT AMENDED			
A	26/09/12	PRELIMINARY ISSUE ONLY			
REV	DATE	DESCRIPTION	REV	DATE	DESCRIPTION

pritchard francis
civil and structural engineering consultants
Level 1, 436 Roberts Road
PO Box 2150
Subiaco WA 6904
Telephone: (08) 9382 5111
Facsimile: (08) 9382 5199
admin@pfeng.com.au
ACN: 008 897 094

CALE: 1:250 (A1)
DATE: 26/09/2012
DESIGNED: DH
DRAWN: DM
CHECKED: DH

JOB: ST STEPHENS SCHOOL, DUNCRAIG
CAR PARK LAYOUT
TITLE: ROADS AND DRAINAGE LAYOUT

SHEET SIZE	JOB No.	DRAWING No.	REVISION
A1	12-119	C1.01	E



PLAN LAYOUT TREE WELL
1:30

TYPICAL SECTION TREE WELL
1:30

LINEMARKING NOTES

1. SINGLE POST SIGN LOCATION AND INSTALLATION TO CONFORM TO MAIN ROADS WESTERN AUSTRALIA STANDARD DRAWING 9548-106-10
2. PAVEMENT MARKINGS ARE INDICATIVE ONLY. ALL PAVEMENT MARKING TYPES AND DIMENSIONS ARE TO CONFORM TO MAIN ROADS WESTERN AUSTRALIA STANDARD DRAWING 9931 0198 7
3. ALL PAVEMENT ARROWS TO CONFORM TO MAIN ROADS DRAWING 9531-2010 AND INSTALLED AS PER MAIN ROADS DRAWING 9531-2011
4. FOR STOP AND GIVEWAY LINE SETOUT DETAILS REFER TO MAIN ROADS WESTERN AUSTRALIA STANDARD DRAWING 200431-002-1

LEGEND

- PROPOSED PAVEMENT
- EXISTING ASPHALT TO BE PROFILED OFF. BUILD UP TO NEW LEVELS WITH CLEAN FILL & LAY NEW PAVEMENT FORMATION AND ASPHALT
- PROPOSED LANDSCAPED ISLAND BY OTHERS
- PROPOSED CONCRETE FOOTPATH
- EXISTING ASPHALT TO BE REMOVED & DISPOSED OF OFF-SITE.REPLACE WITH GRASS TO NEW LEVELS
- SIGN AND POST
- TRAFFIC DIRECTIONAL ARROWS
- PAINTED GIVE WAY LINES
- PAINTED PARKING BAY BOUNDARY
- PROPOSED TREE WELL
- 1.8m x 2.4m DEEP SOAKWELL WITH GRATED LID
- PROPOSED PRAM RAMP
- 20.4 EXISTING CONTOUR
- 19.0 EXISTING LEVELS
- PROPOSED TREE
- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE REMOVED

DIAL 1100 BEFORE YOU DIG

PRELIMINARY
NOT FOR CONSTRUCTION

NOTE
CONTRACTOR TO CHECK ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS. CONTRACTOR TO OBTAIN COUNCIL APPROVAL AND PAY ALL FEES/BONDS PRIOR TO COMMENCEMENT OF ANY WORKS WITHIN THE ROAD RESERVE.

NOTE: ALL CO-ORDINATES SHOWN ON THIS DRAWING SHALL BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPENCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY

REV	DATE	DESCRIPTION	REV	DATE	DESCRIPTION
E	29/08/13	TREES INCLUDED AT TREE WELLS			
D	26/08/13	PARKING LAYOUT & KERB ISLANDS MODIFIED			
C	06/12/12	NEW TREE SYMBOL MODIFIED			
B	5.11.12	CARPARK LAYOUT AMENDED			
A	26.09.12	PRELIMINARY ISSUE ONLY			

pritchard francis
civil and structural engineering consultants
Level 1, 430 Roberts Road
PO Box 2150
Subiaco WA 6904
Telephone: (08) 9382 5111
Facsimile: (08) 9382 5199
admin@pfeng.com.au
ACN: 008 891 094

SCALE (A1)	1:250		
DATE	26/09/2012	DESIGNED	DH
DRAWN	DM	CHECKED	DH

PROJECT: ST STEPHENS SCHOOL, DUNCRAIG
CAR PARK LAYOUT

TITLE: LINEMARKING & SIGNAGE LAYOUT

SHEET SIZE	JOB No.	DRAWING	REVISION
A1	12-119	C1.02	E