



City of
Greater Geraldton
a vibrant future



LAND DEVELOPMENT SPECIFICATIONS

STANDARD DRAWINGS

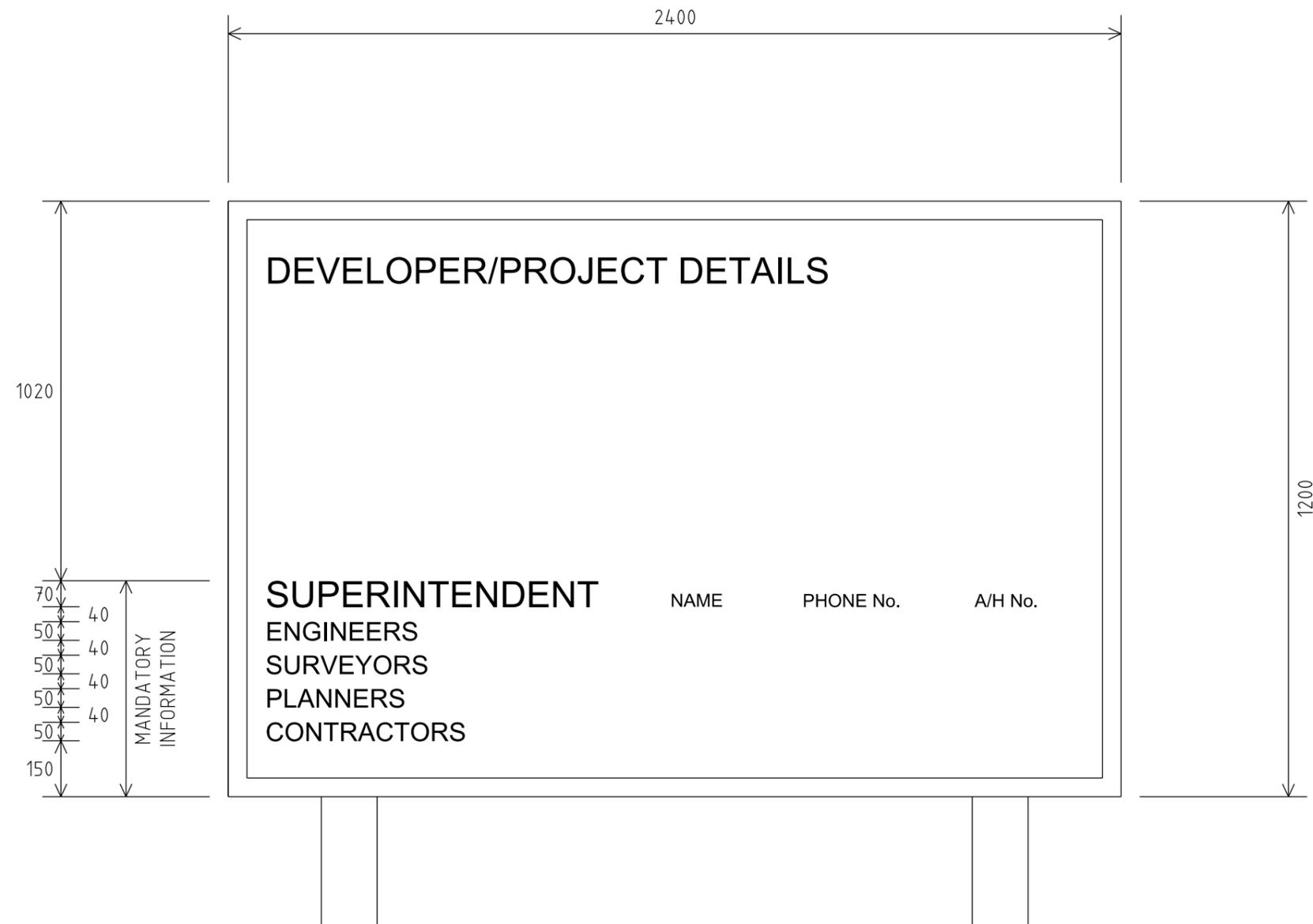
JULY 2011 - Updated March 2012

TABLE OF CONTENTS

<u>DRAWING No.</u>	<u>DRAWING TITLE</u>
LDS-001	PROJECT SIGN BOARD
LDS-002	STANDARD INTERSECTION DETAILS
LDS-003	ROAD PAVEMENT AND CROSS-SECTION DETAILS
LDS-004	TYPICAL SECTION FOR ENTRY STATEMENTS AND CORNER APRONS
LDS-005	STANDARD DRAINAGE DETAILS
LDS-006	DRAINAGE DETAILS Residential Property Drainage Pits, Stepiroon, Sump Outfall
LDS-007	RECONSTITUTED LIMESTONE BLOCK RETAINING WALL
LDS-008	CONCRETE PATHWAY LAYOUT
LDS-009	BRIDLE PATH - TYPICAL SECTION
LDS-010	KERB DETAILS
LDS-011	ASHPALT PATHWAY AND STREET FURNITURE DETAILS
LDS-012	TREE PLANTING INCLUDING ROOT BARRIERS

NOTES

- DESIGN OF FOOTINGS AND SUPPORTS DESIGNED BY AN ENGINEER.
- MANDATORY INFORMATION MUST BY SUPPLIED AT SIZES SHOWN.
- SIGN TO BE ERECTED NO LESS THAN SEVEN (7) DAYS PRIOR TO WORK STARTING ON SITE.
- FONT AND COLOUR TO BE APPROVED BY CITY OF GERALDTON-GREENOUGH.
- ALL DIMENSIONS ARE IN MILLIMETRES (mm).



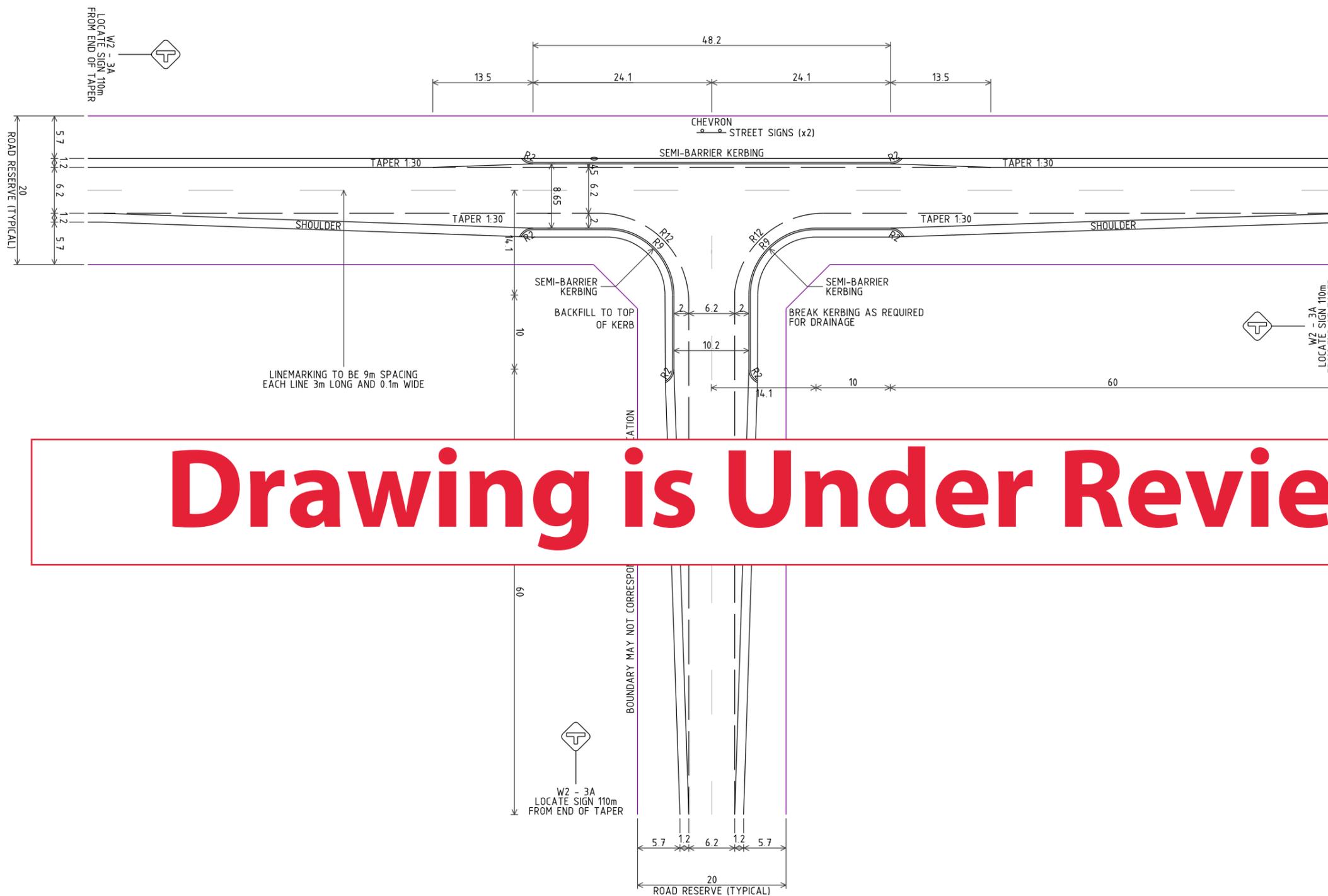
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	1.	DEC 2010	ISSUED	RJT	A. DUFF
2.	JUL 2011	CHANGED OVER LOGO	RJT	A. DUFF	



DESIGNED:	CGG	DATE:	DEC 2010
DRAWN:	CGG	DATE:	DEC 2010
CHECKED:		DATE:	
APPROVED BY:		DATE:	
DEPARTMENT COMMUNITY INFRASTRUCTURE			

PROJECT TITLE:	LAND DEVELOPMENT SPECIFICATIONS	
	PROJECT SIGN BOARD	
DRAWING TITLE:		
FILE LOC:	PROJECT/DRAWING NUMBER: LDS-001	REVISION NUMBER: 2

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DATE SURVEYED:	N/A
DATUM:	H N/A V N/A
SCALE:	NTS



Drawing is Under Review

AMENDMENTS	NO.	DATE	DESCRIPTION	BY	APPR.
	1	DEC 2010	ISSUED	RJT	A. DUFF
	2	JUL 2011	CHANGED OVER LOGO	RJT	A. DUFF



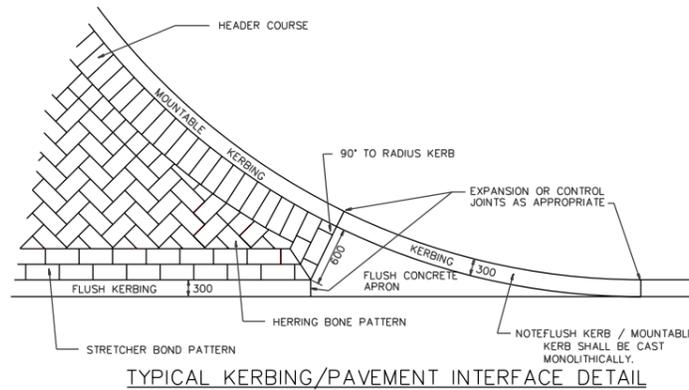
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CHECKED:		DATE:	
APPROVED BY:		DATE:	
DEPARTMENT COMMUNITY INFRASTRUCTURE			

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	STANDARD INTERSECTION DETAILS	
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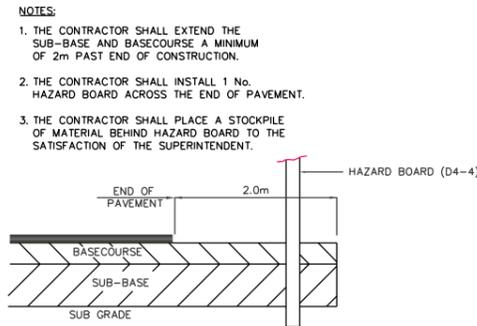
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SCALE:	NTS
REVISION NUMBER:	2

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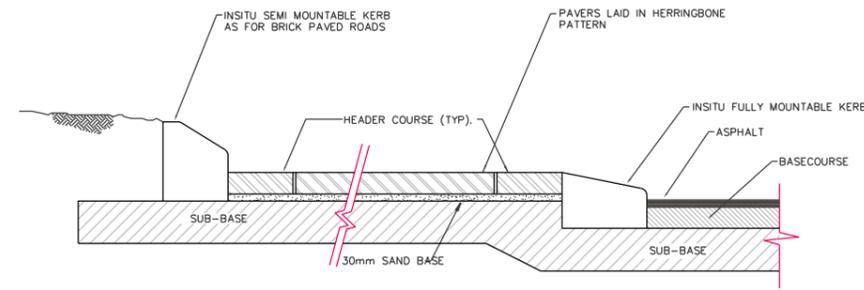


TYPICAL KERBING/PAVEMENT INTERFACE DETAIL

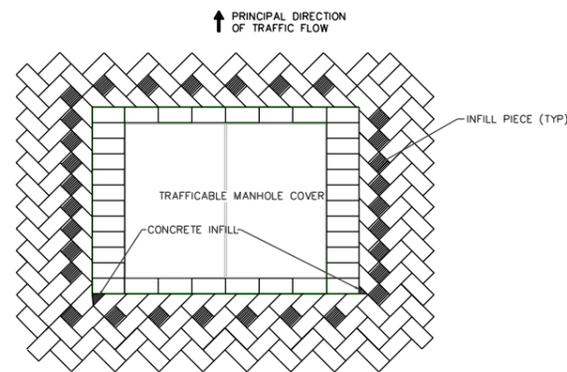


TEMPORARY END OF ROAD PAVEMENT DETAIL

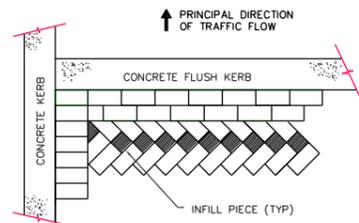
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PART-SECTION THROUGH ROUNDABOUT ISLAND



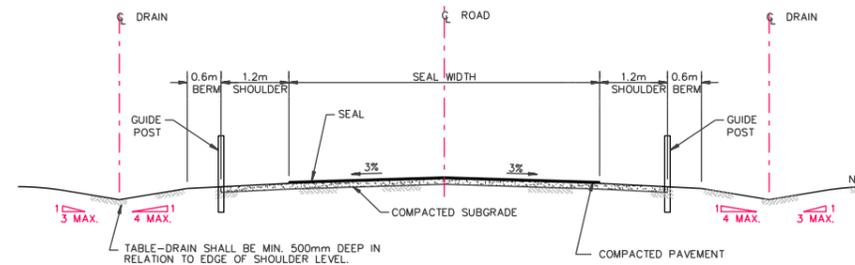
DETAIL 2



DETAIL 1

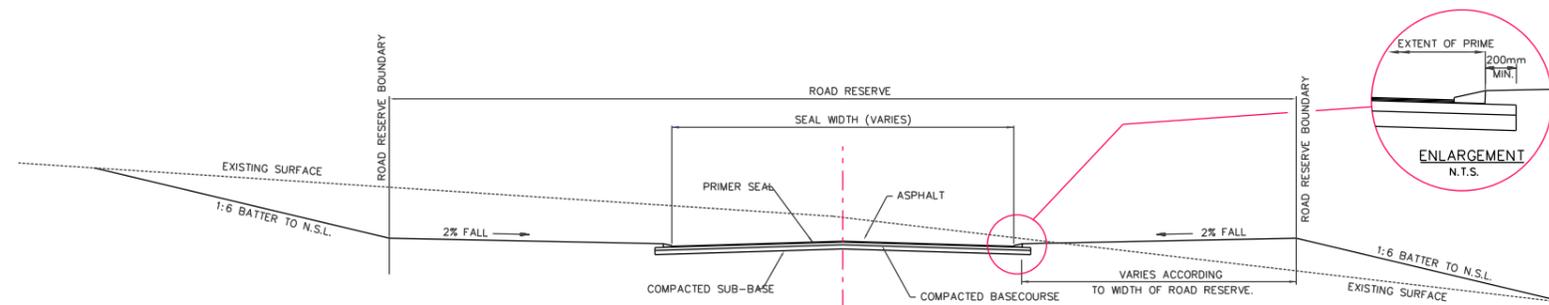
BRICK PAVING DETAILS

DETAILS WHICH SHALL BE ADOPTED TO MINIMISE SMALL SEGMENTS AT BOUNDARIES OF PAVING



TYPICAL CROSS SECTION - RURAL RESIDENTIAL AREAS

N.T.S.



TYPICAL CROSS SECTION - URBAN RESIDENTIAL AREAS

N.T.S.



DESIGNED:	CGG	DATE:	DEC 2010
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CHECKED:		DATE:	
APPROVED BY:		DATE:	

DEPARTMENT
COMMUNITY INFRASTRUCTURE

PROJECT TITLE:	LAND DEVELOPMENT SPECIFICATIONS	
DRAWING TITLE:		ROAD PAVEMENT AND CROSS-SECTION DETAILS
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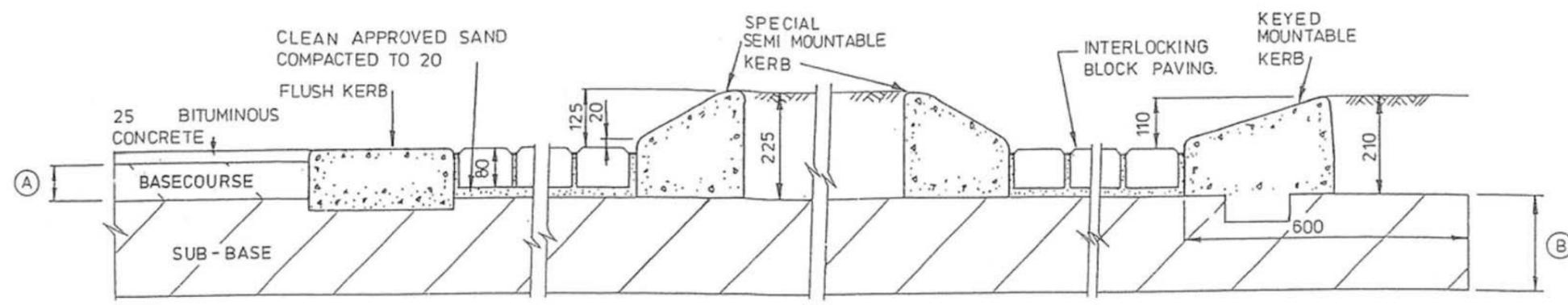
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ROAD PAVEMENT AND CROSS-SECTION DETAILS

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DATUM:	H V N/A N/A
SCALE:	NTS
REVISION NUMBER:	2

AMENDMENTS	NO.	DATE	DESCRIPTION	BY	APPR.
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	2.	JUL 2011	CHANGED OVER LOGO	RJT	A. DUFF

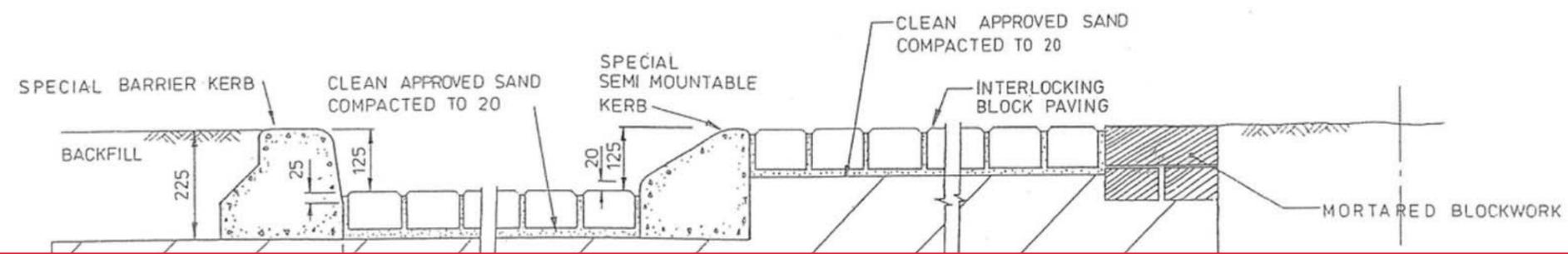
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1. THIS DRAWING ORIGINATED FROM 08/89/04
(CITY OF GERALDTON-GREENOUGH)

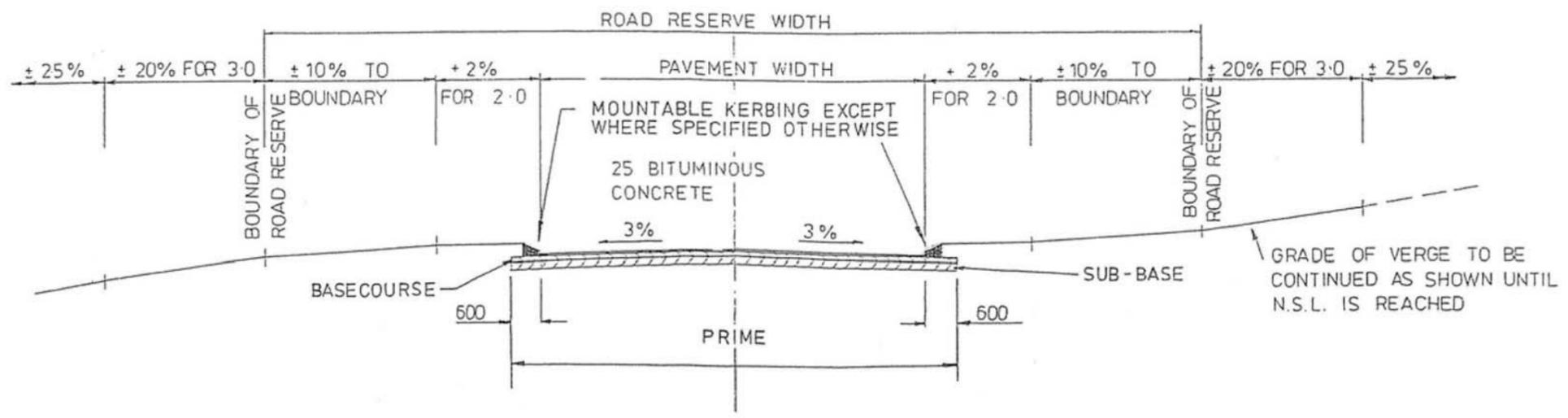


TYPICAL SECTION THROUGH CORNER APRONS

Scale: NTS



Drawing is Under Review



TYPICAL SECTION

Scale: NTS

AMENDMENTS	NO.	DATE	DESCRIPTION	BY	APPR.
	1.	DEC 2010	ISSUED	RJT	A. DUFF
	2.	JUL 2011	CHANGED OVER LOGO	RJT	A. DUFF

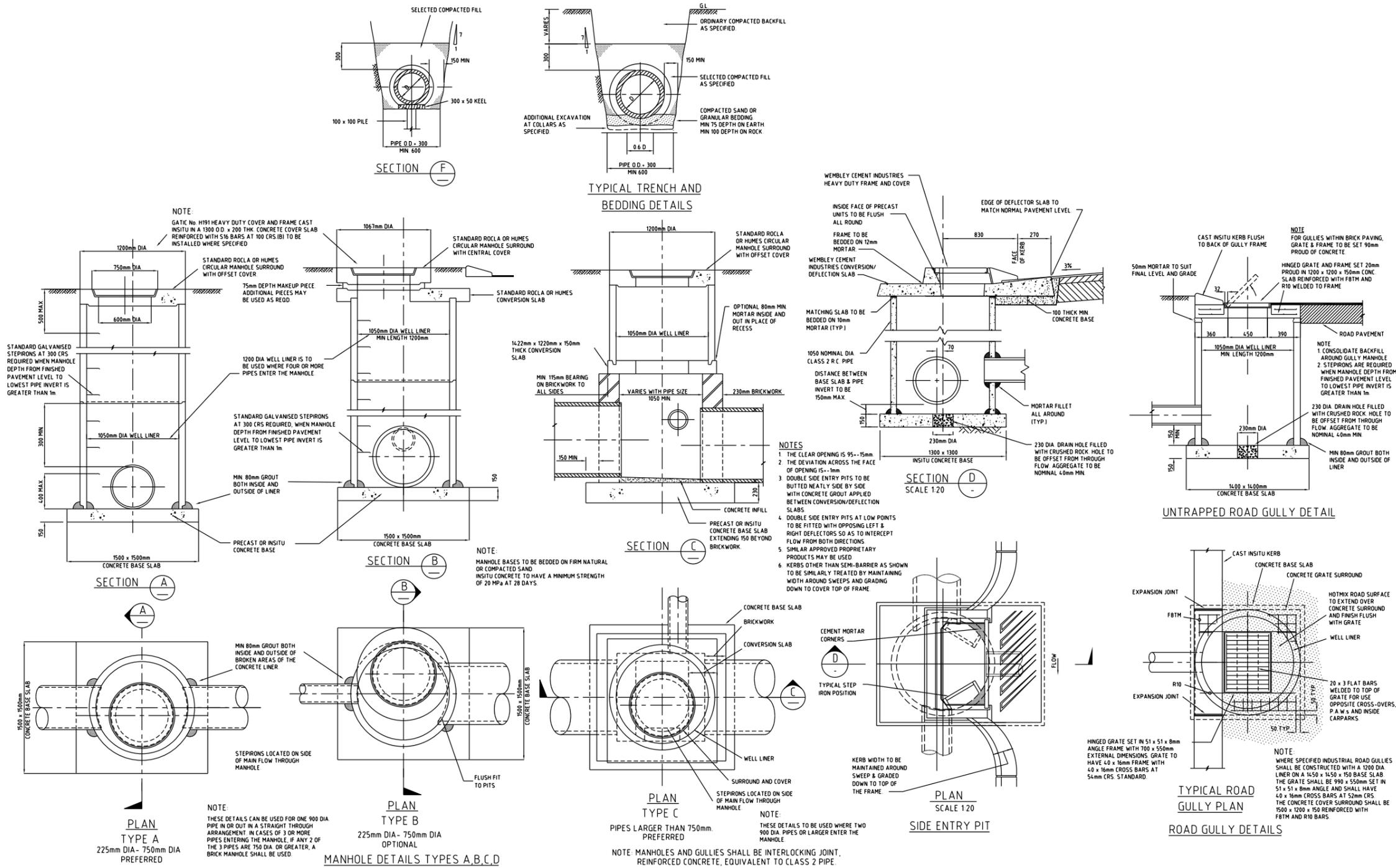


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CHECKED:		DATE:	
APPROVED BY:		DATE:	
DEPARTMENT			
COMMUNITY INFRASTRUCTURE			

PROJECT TITLE:	LAND DEVELOPMENT SPECIFICATIONS	
	TYPICAL SECTION FOR ENTRY STATEMENTS & CORNER APRONS	
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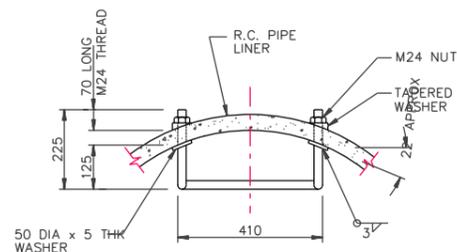
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CHECKED:		DATE:	
APPROVED BY:		DATE:	
DEPARTMENT			
COMMUNITY INFRASTRUCTURE			
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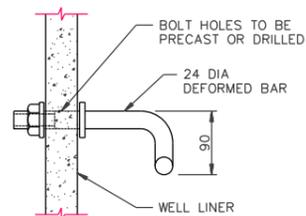
STANDARD DRAINAGE DETAILS	
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NOTES

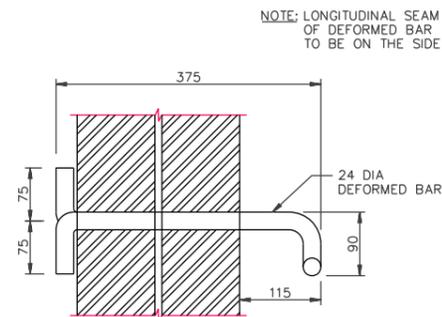
- THIS DRAWING ORIGINATED FROM IMEA-ST6 (INSTITUTE OF MUNICIPAL ENGINEERING AUSTRALIA WESTERN AUSTRALIA DIVISION INCORPORATED)



PLAN
SCALE 1:10



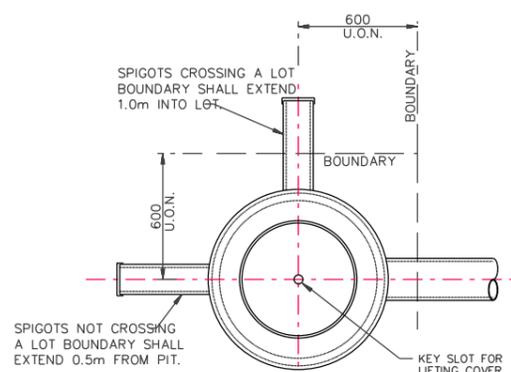
TYPICAL SECTION
SCALE 1:5



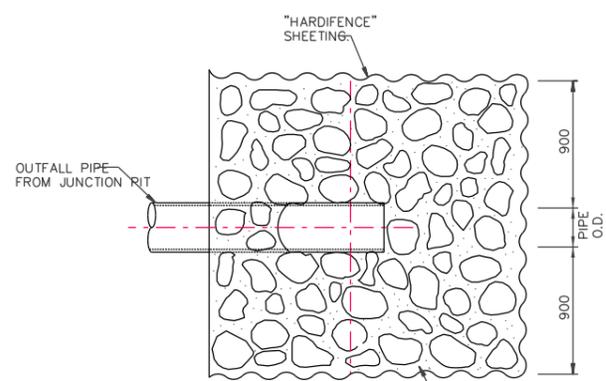
STEP IRON TO BRICK MANHOLE DETAIL
SCALE 1:5

NOTE: LONGITUDINAL SEAM OF DEFORMED BAR TO BE ON THE SIDE

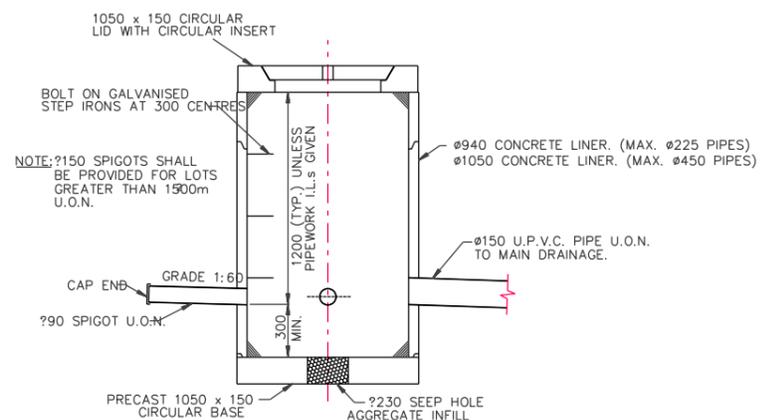
STEP IRON DETAILS



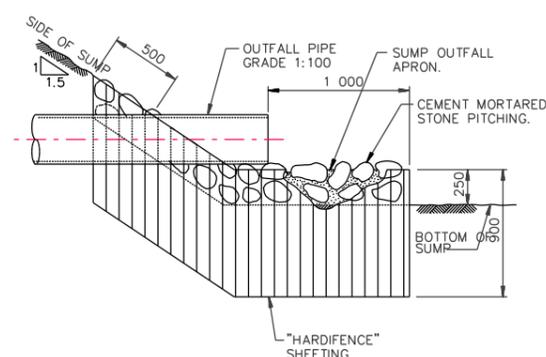
PLAN



PLAN



RESIDENTIAL PROPERTY DRAINAGE PIT
N.T.S.



SUMP OUTFALL APRON
N.T.S.

AMENDMENTS	NO.	DATE	DESCRIPTION	BY	APPR.
	1.	DEC 2010	ISSUED		RJT
2.	JUL 2011	CHANGED OVER LOGO		RJT	A. DUFF



DESIGNED:	CGG	DATE:	DEC 2010
DRAWN:	CGG	DATE:	DEC 2010
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APPROVED BY:		DATE:	
DEPARTMENT			
COMMUNITY INFRASTRUCTURE			

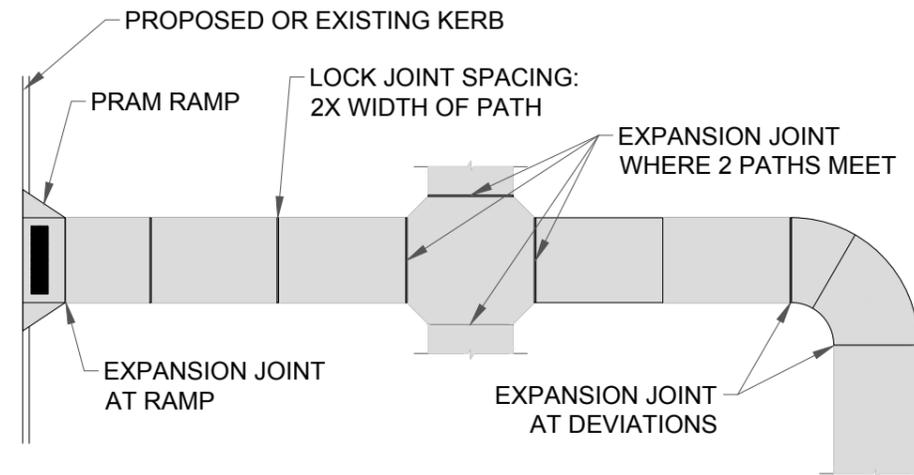
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FILE LOC:		
PROJECT/DRAWING NUMBER:	LDS-006	

PAPER SIZE:	A3
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SCALE:	NTS
REVISION NUMBER:	2

**Retaining Wall drawing has
been removed**

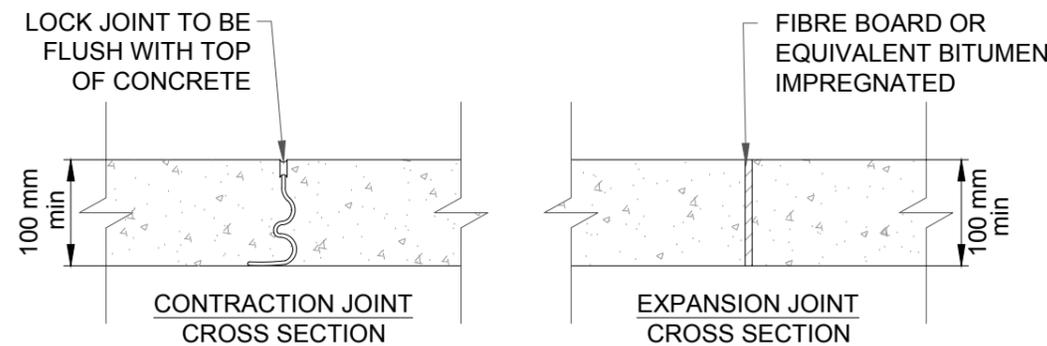
NOTES

1. ALL WORK TO COMPLY WITH THE CITY OF GREATER GERALDTON LAND DEVELOPMENT SPECIFICATION, STANDARD DRAWINGS, & CONCRETE SHARED PATHWAY SPECIFICATION (ISM007).
2. ALL DIMENSIONS ARE IN METERS UNLESS SHOWN OTHERWISE.
3. USE DIMENSIONS ON PLANS, DO NOT SCALE.
4. ALIGNMENTS ARE INDICATIVE ONLY, REFER TO PROJECT CONSTRUCTION DRAWINGS FOR PROPOSED PATH LOCATIONS.
5. EXPANSION JOINTS SHALL BE PROVIDED WHERE THE PATH ABUTS EXISTING CROSSOVERS.
6. EXPANSION JOINTS IN KERB AND PATHWAY MUST ALIGN WHERE BOTH ARE PRESENT.
7. BLACK TACTILES SHALL BE USED ON GREY CONCRETE PATHS. WHITE TACTILES SHALL BE USED ON BLACK ASPHALT SURFACES. TACTILES INSTALLED ON ANY OTHER SURFACES SHALL BE OF A SHADE THAT CONTRASTS WITH THAT SURFACE, IN A WAY THAT IS NOTICEABLE TO COLOURBLIND PEOPLE.
8. SPRAYCRETE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. SPRAYCRETE SHALL BE RED, WITH A STRETCHER BOND PATTERN.
9. PATH WIDTHS SHALL COMPLY WITH COUNCIL'S ROAD AND SHARED PATHWAY HIERARCHY.
10. SHARED PATHWAYS SHALL GENERALLY BE DESIGNED IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 6A: PEDESTRIAN AND CYCLIST PATHS. ANY VARIATION FROM THIS GUIDE SHALL BE REFERRED TO COUNCIL.
11. THE CONTRACTOR/CONSULTANT SHALL OBTAIN ALL RELATED INFORMATION FROM "DIAL BEFORE YOU DIG" BEFORE COMMENCING ANY DESIGN OR CONSTRUCTION WORK AND ENSURE ANY POTENTIAL CLASHES ARE ADEQUATELY DEALT WITH.
12. CONCRETE TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 25 MPa WITH LIGHT GREY COLOUR. ALL OTHER COLOURED AND AESTHETIC CONCRETE TO BE 32 MPa UNLESS OTHERWISE APPROVED BY CGG.
13. CONCRETE FINISH TO BE A NON-SLIP SURFACE.
14. EDGE/SIDES OF CONCRETE SHALL BE BACKFILLED AFTER 7 DAYS TO ALLOW FOR PROPER CURING. NO VEHICULAR MOVEMENT OVER CONCRETE TO BE ALLOWED WITHIN THIS PERIOD.



CONCRETE PATH TYPICAL JOINTS LAYOUT

MANAGER PROJECT DESIGN AND DELIVERY	
MANAGER INFRASTRUCTURE PLANNING AND ASSET MANAGEMENT	
MANAGER INFRASTRUCTURE MAINTENANCE AND RENEWALS	
DIRECTOR INFRASTRUCTURE SERVICES	



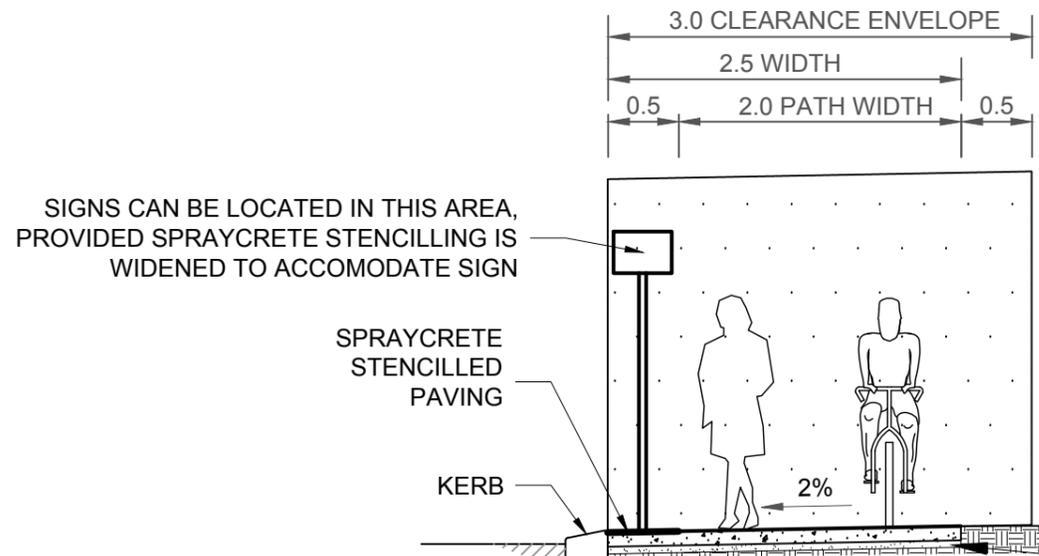
JOINT CROSS SECTIONS

AMENDMENTS	NO.	DATE	DESCRIPTION	BY	APPR.
	1.	MAY 2010	NEW TITLEBLOCK AND DIM	VH	
	2.	DEC 2014	UPDATED ALIGNMENTS	GK	



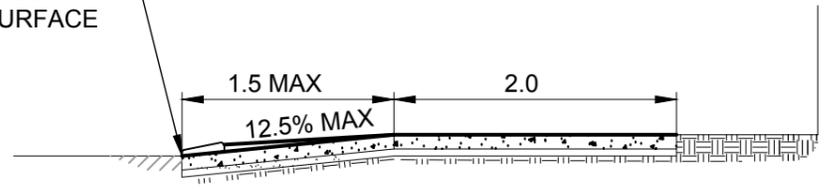
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DRAWN:	GEORGE KEZICH	DATE:	6.08.15
CHECKED:		DATE:	
DEPARTMENT INFRASTRUCTURE SERVICES			

PROJECT TITLE:	CONCRETE SHARED PATH STANDARD DRAWING	PAPER SIZE:	A3
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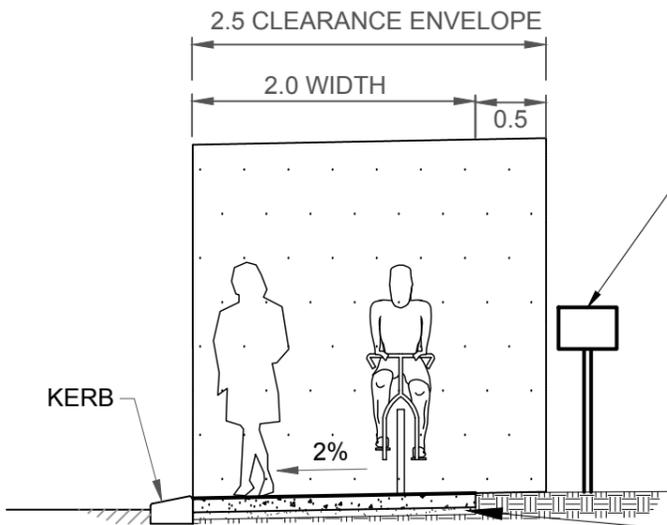
LOCAL AND DISTRICT DISTRIBUTOR ROAD TYPICAL CROSS SECTION

MATCH TO ASPHALT OR USE TEMPORARY ASPHALT FILL, EDGE MUST BE 0-10mm ABOVE ASPHALT SURFACE



TYPICAL PROFILE ALONG PRAM RAMP

MINIMUM 50mm THICK FREE DRAINING SAND BASE ON COMPACTED SUBGRADE TO 95% MDD PLASTIC SHEETING OVERLAY REQUIRED FOR CLAY SUBGRADE



ACCESS STREET TYPICAL CROSS SECTION

ALL SIGNAGE TO BE LOCATED OUTSIDE CLEARANCE ENVELOPE

MINIMUM 50mm THICK FREE DRAINING SAND BASE ON COMPACTED SUBGRADE TO 95% MDD PLASTIC SHEETING OVERLAY REQUIRED FOR CLAY SUBGRADE

MANAGER PROJECT DESIGN AND DELIVERY	
MANAGER INFRASTRUCTURE PLANNING AND ASSET MANAGEMENT	
MANAGER INFRASTRUCTURE MAINTENANCE AND RENEWALS	
DIRECTOR INFRASTRUCTURE SERVICES	

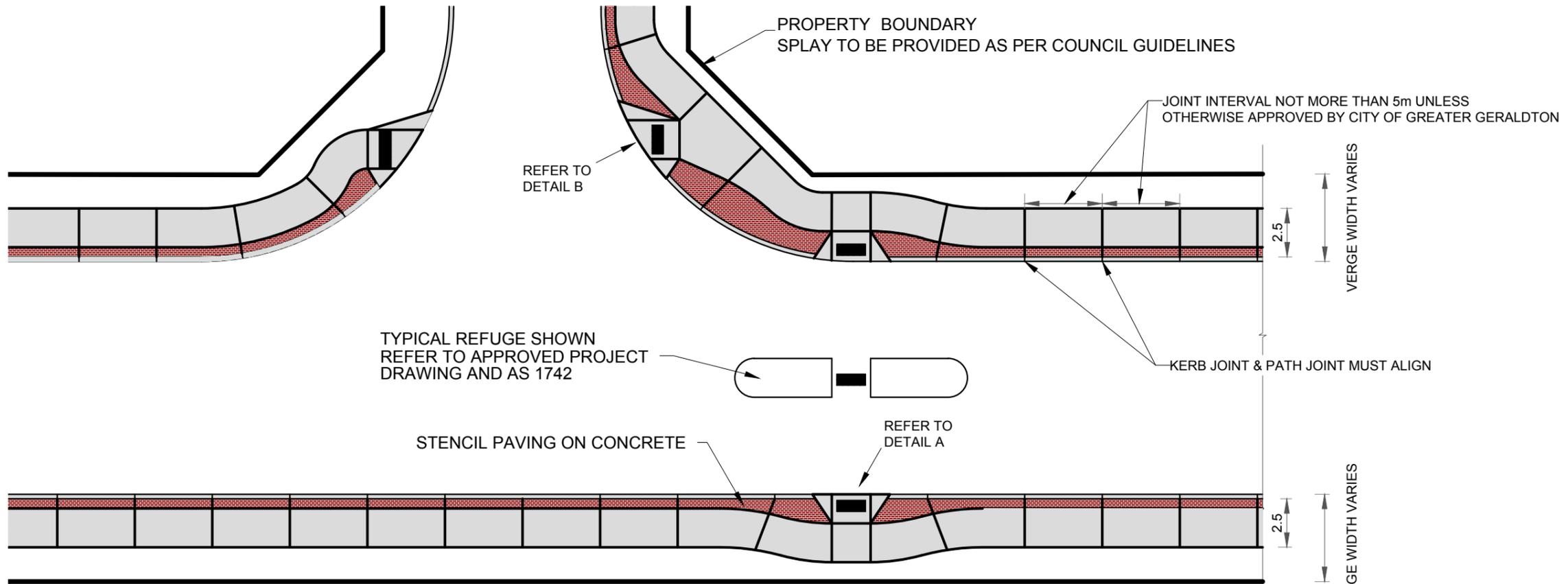
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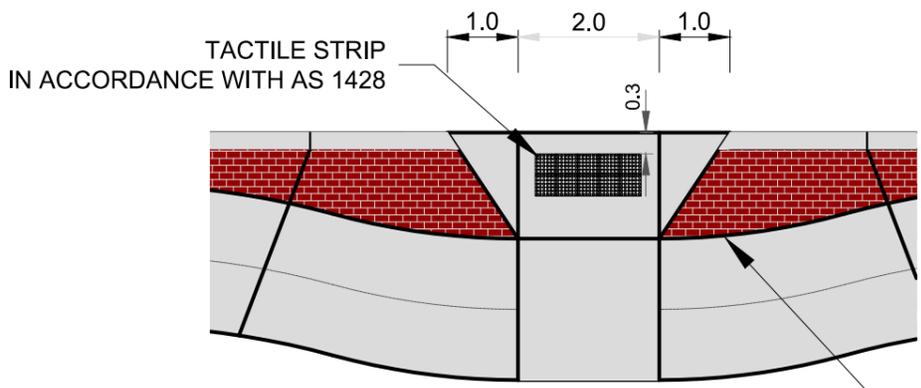
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DEPARTMENT INFRASTRUCTURE SERVICES			

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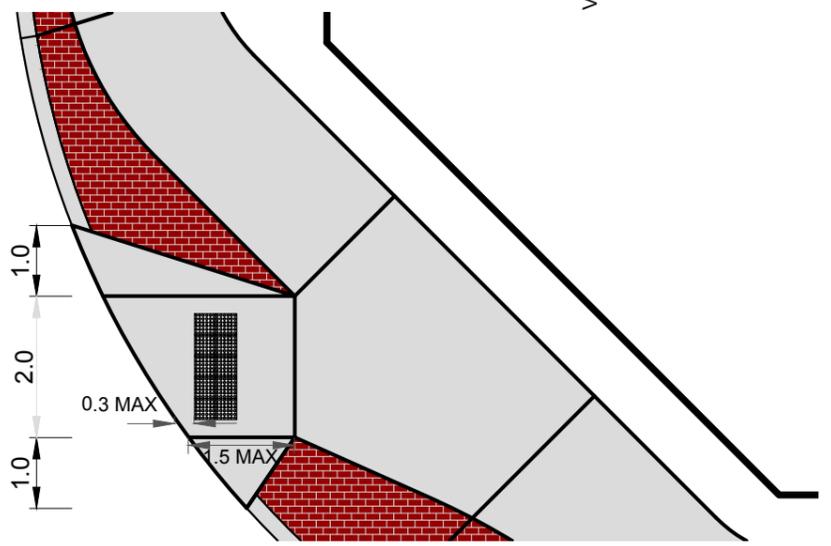
**LOCAL AND DISTRICT DISTRIBUTOR
TYPICAL INTERSECTION LAYOUT**



DETAIL A

RADIUS 10 MINIMUM

MANAGER PROJECT DESIGN AND DELIVERY	
MANAGER INFRASTRUCTURE PLANNING AND ASSET MANAGEMENT	
MANAGER INFRASTRUCTURE MAINTENANCE AND RENEWALS	
DIRECTOR INFRASTRUCTURE SERVICES	



DETAIL B

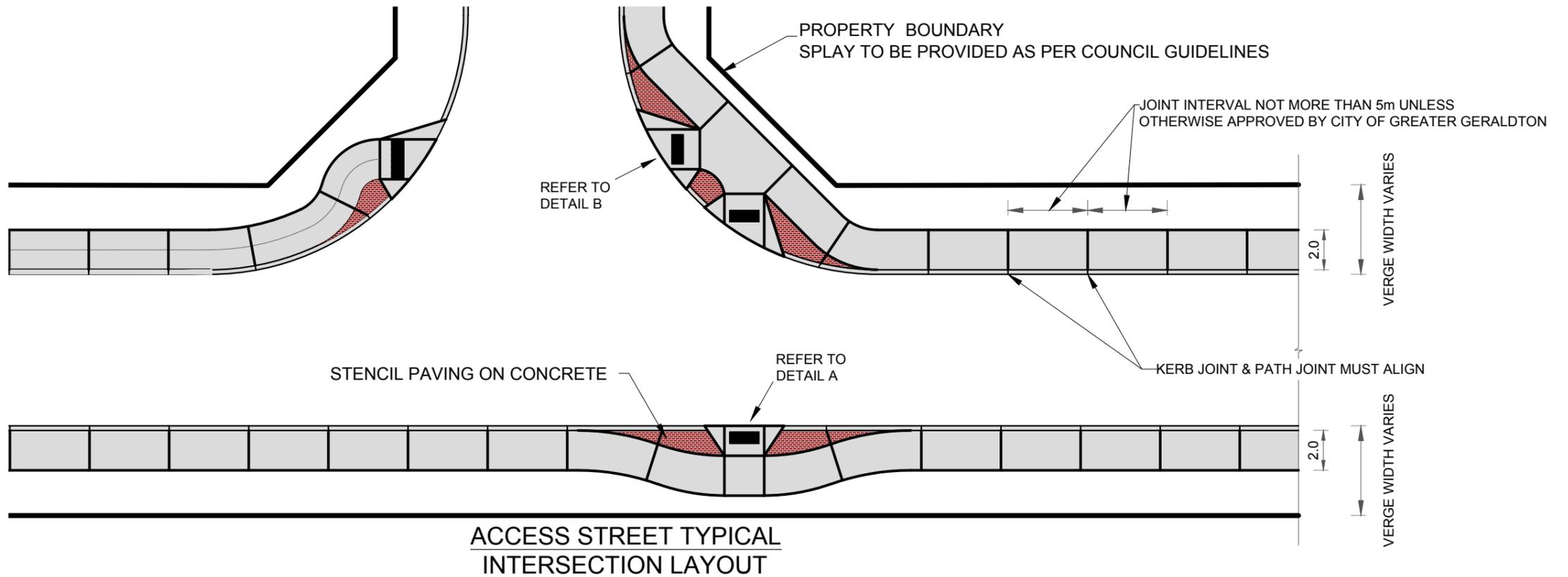
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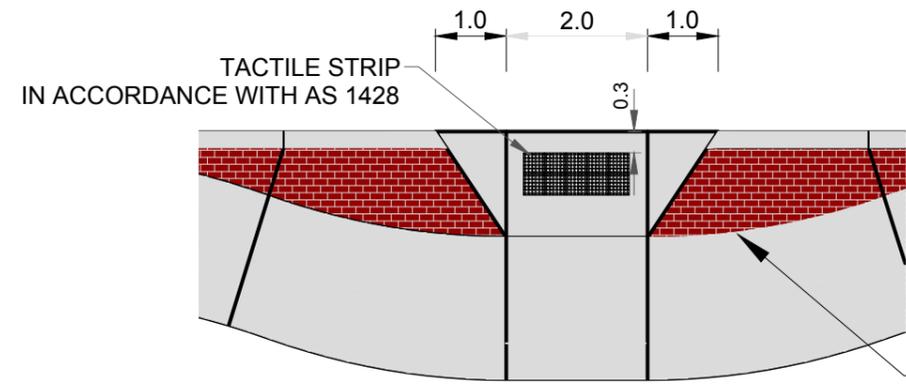
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DRAWN:	GEORGE KEZICH	DATE:	6.08.15
CHECKED:		DATE:	
DEPARTMENT INFRASTRUCTURE SERVICES			

PROJECT TITLE:	CONCRETE SHARED PATH STANDARD DRAWING	
DRAWING TITLE:	LOCAL AND DISTRICT DISTRIBUTOR ROAD CONCRETE PATH LAYOUT	
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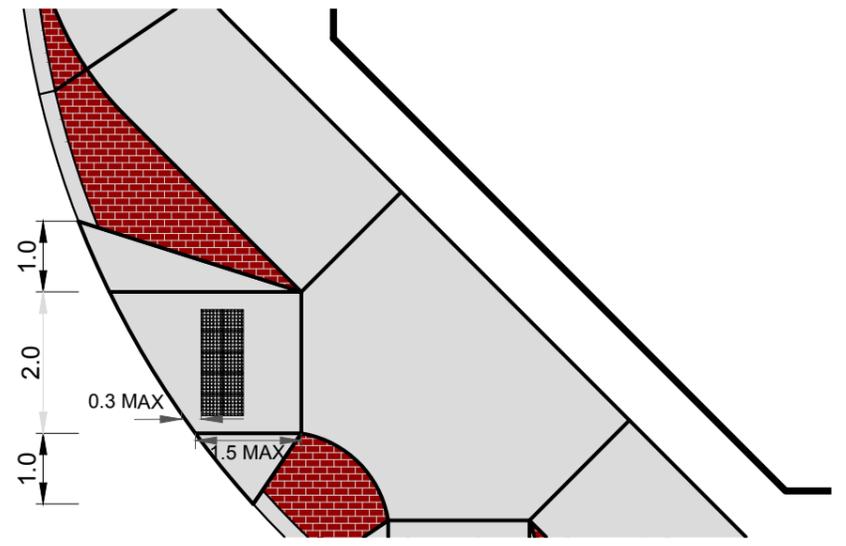
ACCESS STREET TYPICAL INTERSECTION LAYOUT



DETAIL A

RADIUS 10 MINIMUM

MANAGER PROJECT DESIGN AND DELIVERY	
MANAGER INFRASTRUCTURE PLANNING AND ASSET MANAGEMENT	
MANAGER INFRASTRUCTURE MAINTENANCE AND RENEWALS	
DIRECTOR INFRASTRUCTURE SERVICES	



DETAIL B

AMENDMENTS	NO.	DATE	DESCRIPTION	BY	APPR.
	1.	MAY 2010	NEW TITLEBLOCK AND DIM	VH	
	2.	JAN 2015	UPDATED ALIGNMENTS	GK	

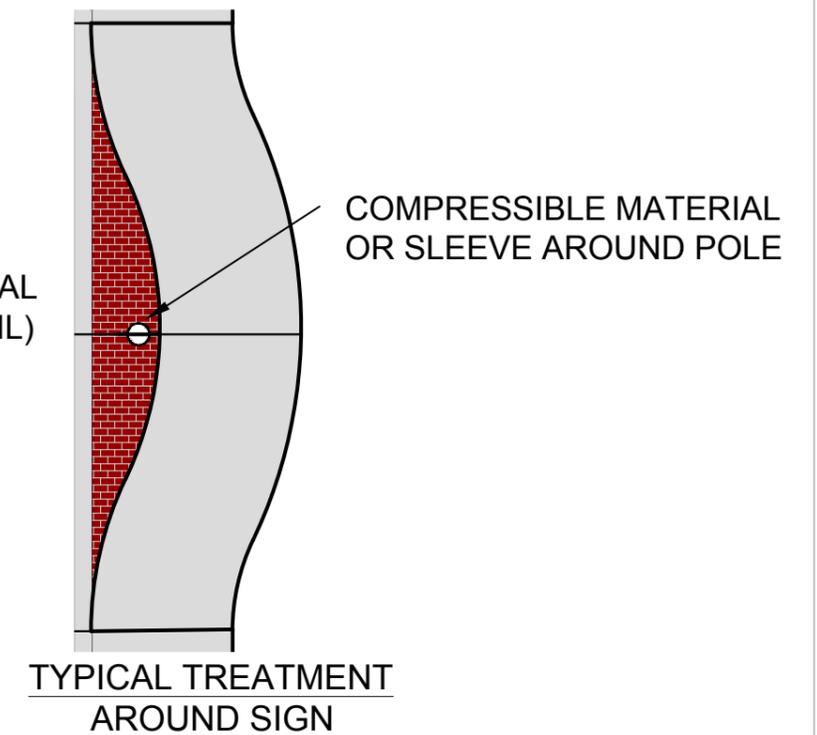
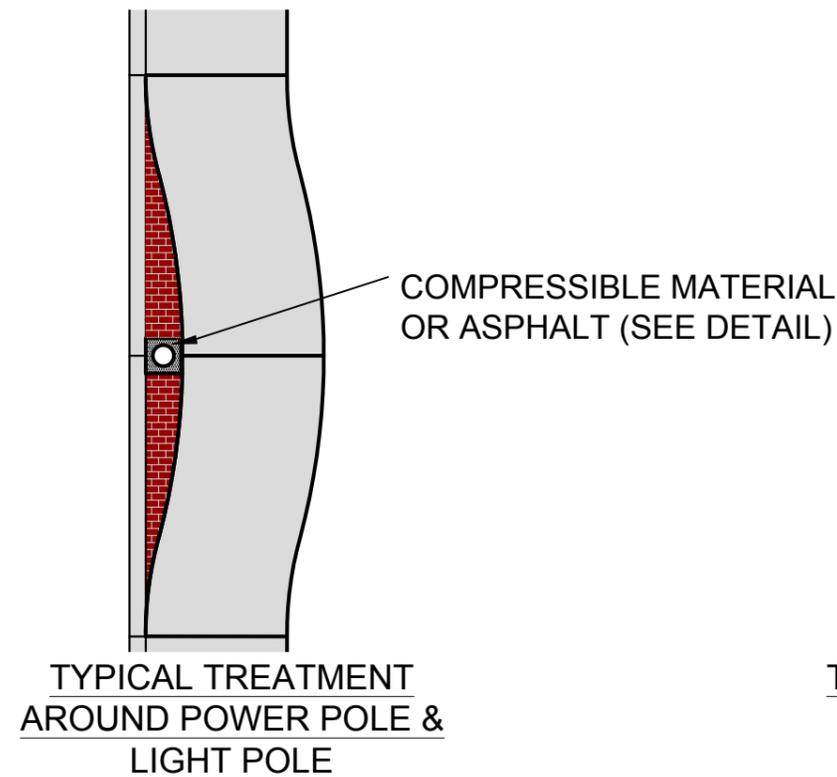
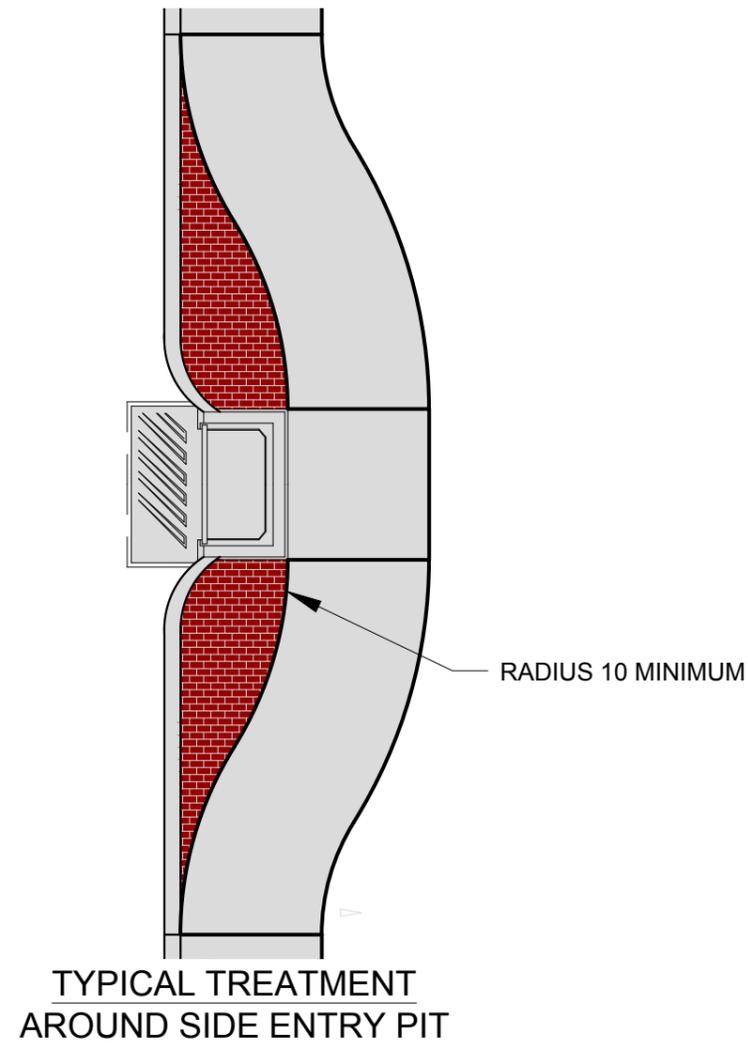
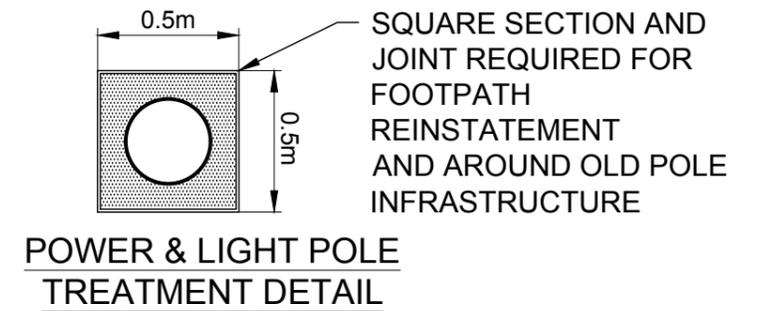


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CHECKED:		DATE:	
DEPARTMENT INFRASTRUCTURE SERVICES			

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SCALE:	N.T.S
REVISION NUMBER:	P

MANAGER PROJECT DESIGN AND DELIVERY	
MANAGER INFRASTRUCTURE PLANNING AND ASSET MANAGEMENT	
MANAGER INFRASTRUCTURE MAINTENANCE AND RENEWALS	
DIRECTOR INFRASTRUCTURE SERVICES	



AMENDMENTS	NO.	DATE	DESCRIPTION	BY	APPR.
	1.	JAN 2015	SPECIFIED	GK	



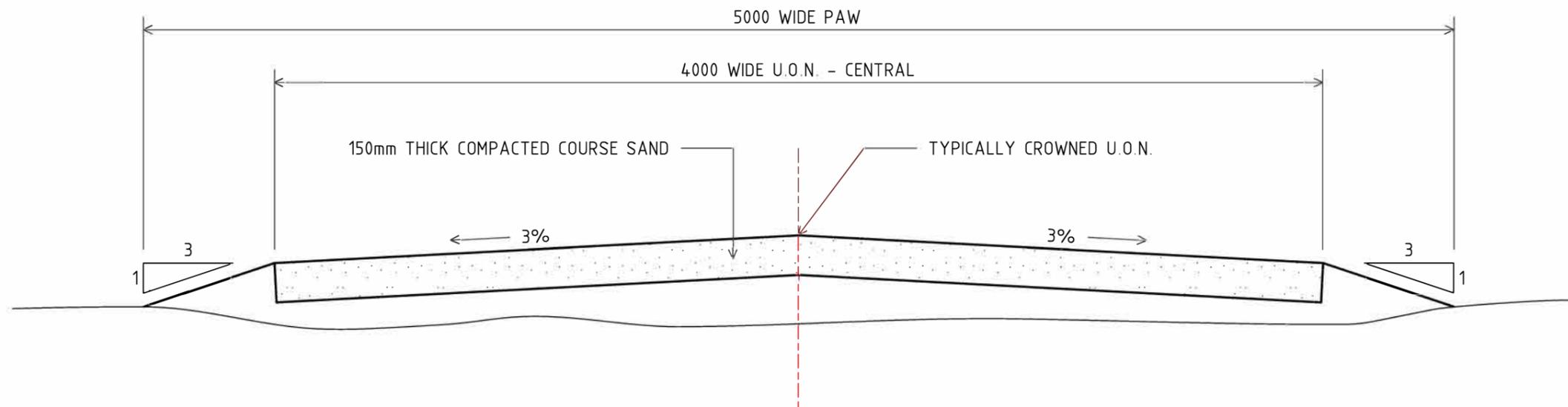
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DRAWN:	GEORGE KEZICH	DATE:	6.08.15
CHECKED:		DATE:	
DEPARTMENT INFRASTRUCTURE SERVICES			

PROJECT TITLE:	CONCRETE SHARED PATH STANDARD DRAWING
DRAWING TITLE:	TYPICAL DETAILS
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DATE SURVEYED:	NA
DATUM:	H V
SCALE:	H V N.T.S
REVISION NUMBER:	P

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.



CENTRELINE SHALL BE TYPICALLY 150mm ABOVE NATURAL SURFACE TO ALLOW RUNOFF

TYPICAL CROSS-SECTION FOR BRIDLE PATH

AMENDMENTS	NO.	DATE	DESCRIPTION	BY	APPR.
	1.	DEC 2010	ISSUED		RJT
2.	JUL 2011	CHANGED OVER LOGO		RJT	A. DUFF



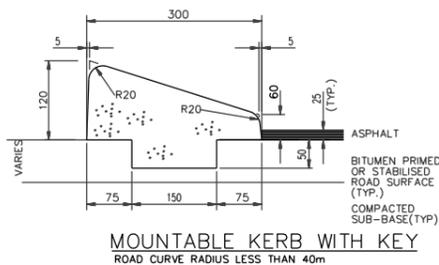
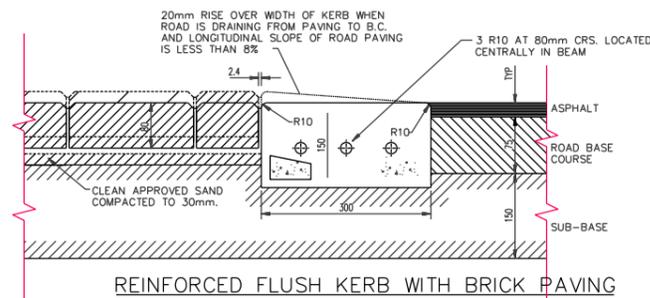
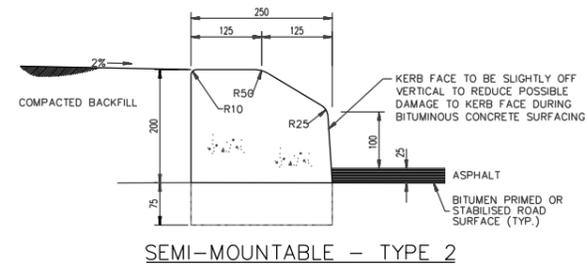
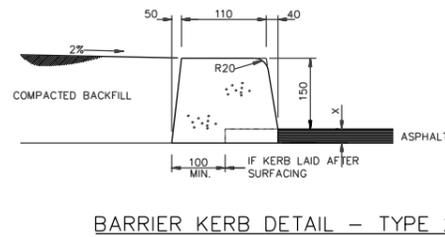
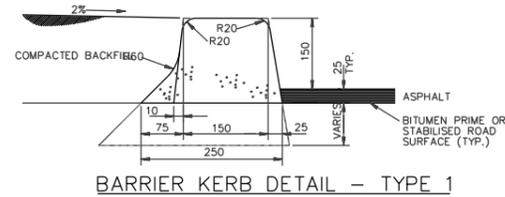
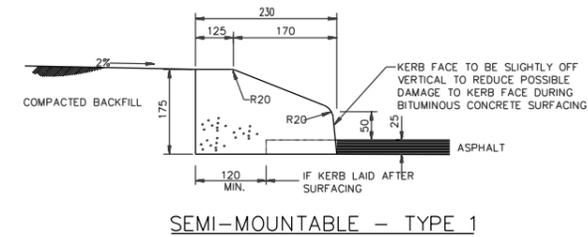
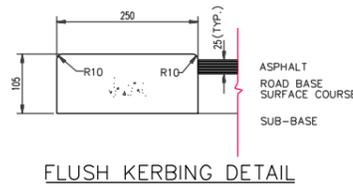
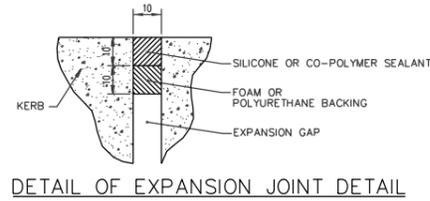
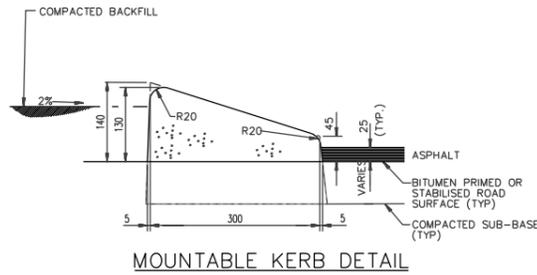
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DRAWN:	CGG	DATE:	DEC 2010
CHECKED:		DATE:	
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DEPARTMENT			
COMMUNITY INFRASTRUCTURE			

PROJECT TITLE:	LAND DEVELOPMENT SPECIFICATIONS
DRAWING TITLE:	
FILE LOC:	PROJECT/DRAWING NUMBER: LDS-009

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REVISION NUMBER:	2

NOTES

1. THIS DRAWING ORIGINATED FROM IMEA-ST3 (INSTITUTE OF MUNICIPAL ENGINEERING AUSTRALIA WESTERN AUSTRALIA DIVISION INCORPORATED)



NOTES:

1. CONCRETE STRENGTH TO BE IN ACCORDANCE WITH STANDARD SPECIFICATION. REINFORCED FLUSH EDGE BEAM TO BE 25MP_o F_c AT 28 DAYS
2. EXPANSION JOINTS: PLACE AT 5m INTERVALS
3. KERB EXTENDING BELOW STABILISED ROAD SURFACE TO COMPACTED SUB-BASE SHOWN - - - - - NOT TO BE USED UNLESS DIRECTED BY OFFICER
4. REINFORCED FLUSH EDGE BEAM NOT TO BE CUT
5. REINFORCEMENT TO BE STRUCTURAL GRADE STEEL COMPLYING WITH AS1302 GRADE 410Y

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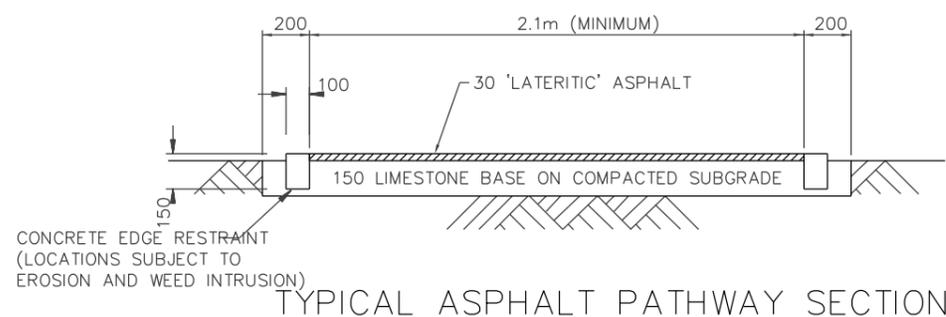
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DRAWING TITLE:	
FILE LOC:	PROJECT/DRAWING NUMBER: LDS-010

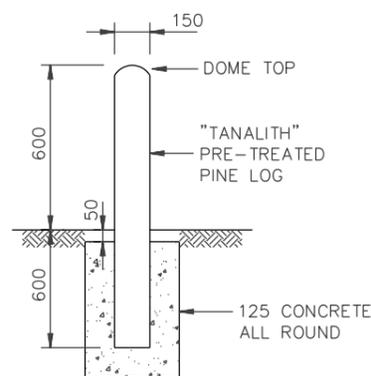
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REVISION NUMBER:	2

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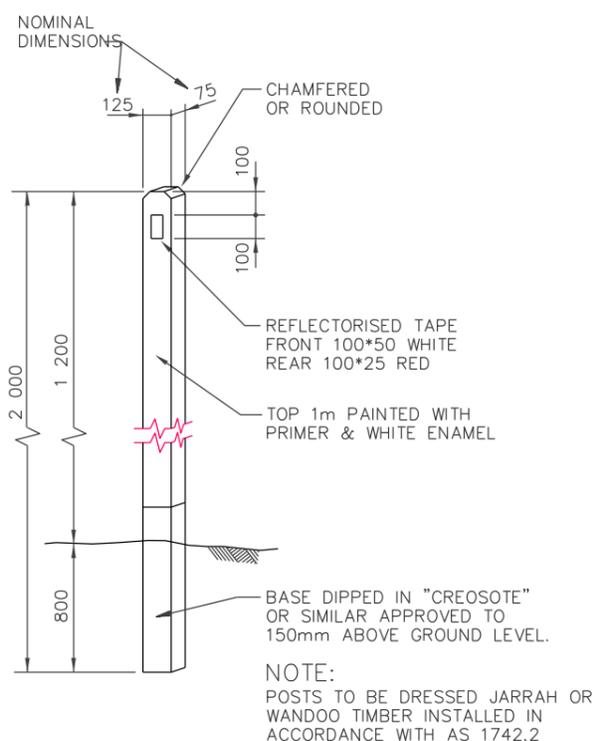
- THIS DRAWING ORIGINATED FROM IMEA-ST2 (INSTITUTE OF MUNICIPAL ENGINEERING AUSTRALIA WESTERN AUSTRALIA DIVISION INCORPORATED)



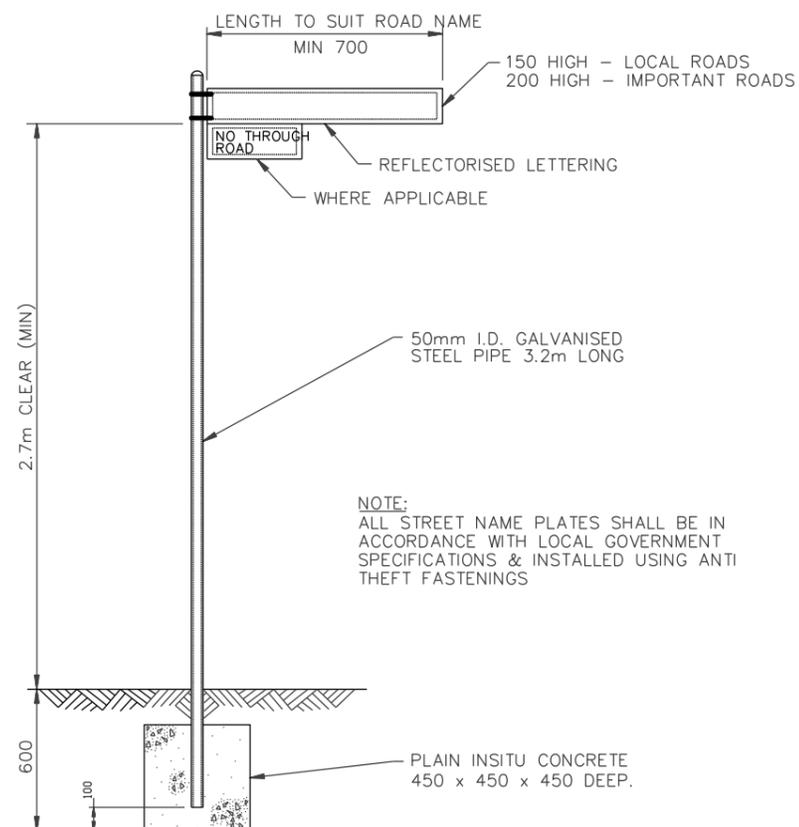
TYPICAL ASPHALT PATHWAY SECTION



PINE BOLLARD DETAIL



GUIDE POST DETAIL



STANDARD STREET SIGN DETAIL

SIGN SHALL BE LOCATED ON 2.7m ALIGNMENT UNLESS OTHERWISE NOTED.

- NOTES:
- AT 1.5m CENTRES ; TOPS TO BE SET LEVEL
 - BOLLARDS ON ALIGNMENT TO BE DETERMINED BY LOCAL GOVERNMENT.

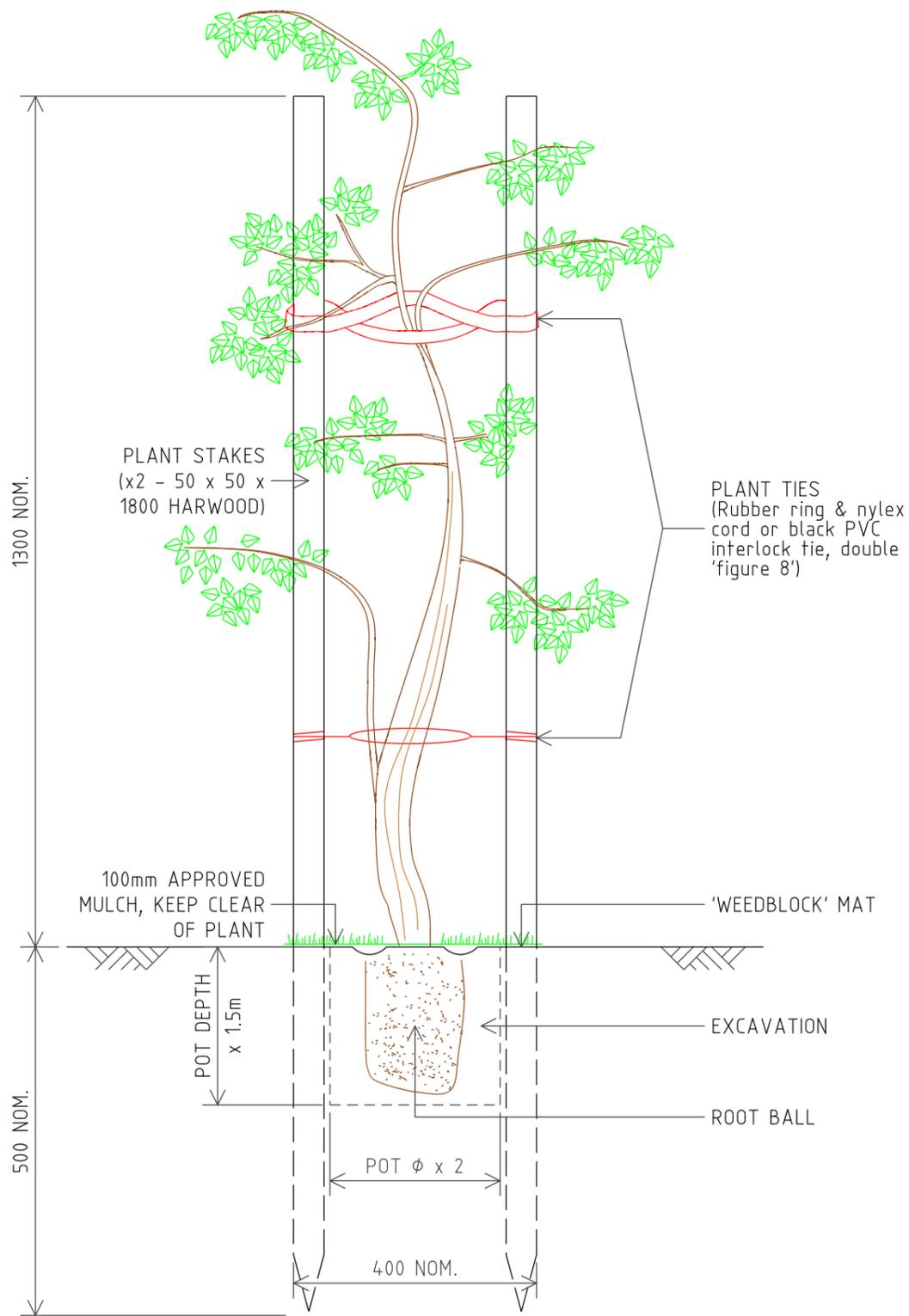
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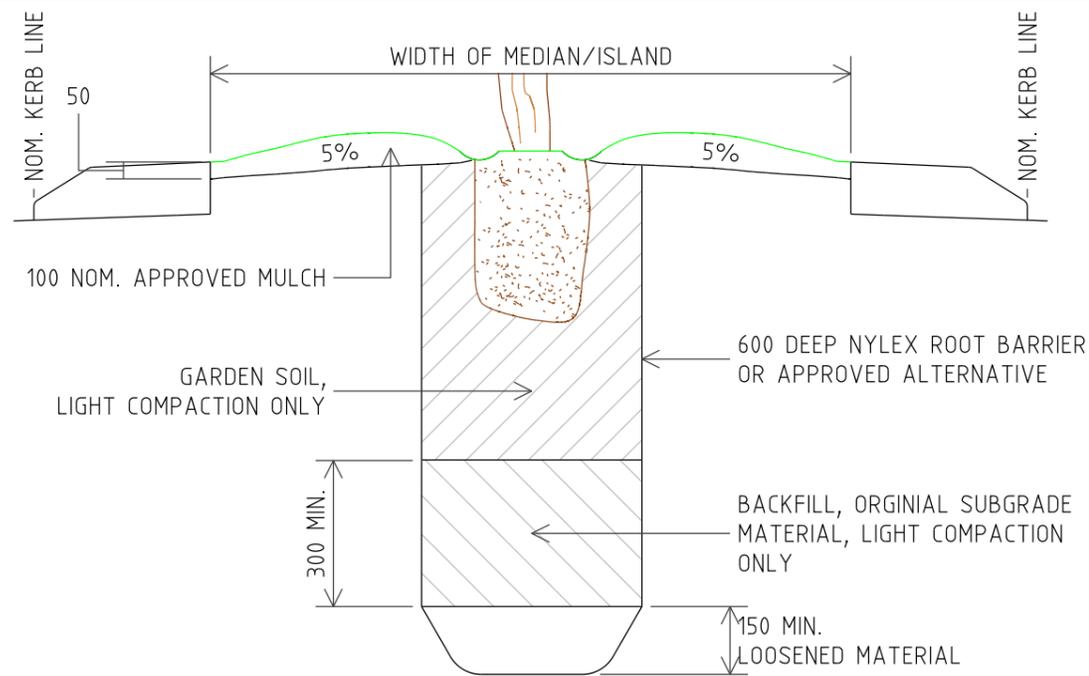
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PROJECT TITLE:	LAND DEVELOPMENT SPECIFICATIONS
DRAWING TITLE:	
FILE LOC:	PROJECT/DRAWING NUMBER: LDS-011

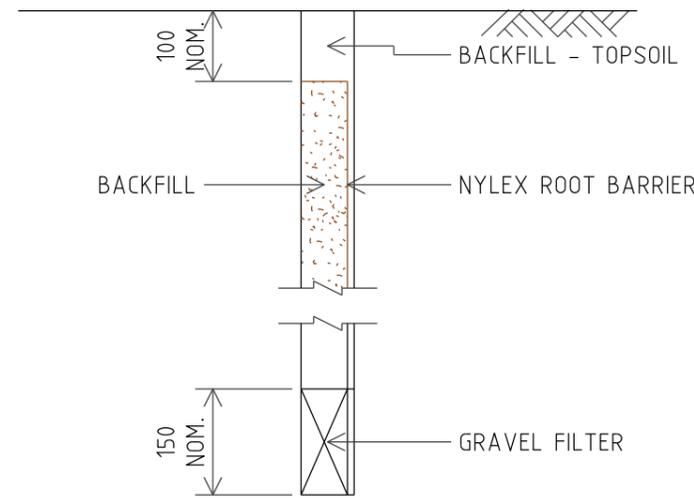
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PLANTING AND STAKING



PLANTING IN MEDIANS



ROOT BARRIER
LOCATION AS DIRECTED

NOTES

- 1. PLANTING**
 PLANT TYPES AS SPECIFIED, REFER TO PROJECT DOCUMENTATION.
 PROVIDE HOLE 3 TO 4 TIMES THE SIZE OF PLANT CONTAINER, REFER TO ELEVATION.
 THE BOTTOM OF THE HOLE SHALL BE LOOSENED TO A DEPTH OF 150mm.
 BACKFILL WITH APPROVED GARDEN SOIL TO 70mm BELOW ROOT BALL LEVEL.
 PRIOR TO PLANTING, PLACE 5 LITRES OF WATER INTO HOLE & ALLOW TO SOAK AWAY.
 ANY APPROVED GARDEN SOIL AND PLACE UNDISTURBED ROOT BALL SO THAT THE CROWN OF THE TREE IS AT THE CORRECT LEVEL, BACKFILL TO HALF ROOT BALL HEIGHT.
 ADD AGRIFORM SLOW RELEASE 10 GRAM TABLETS OF NPK 20:4:3:4:1 ANALYSIS TO EACH TREE.
 * PROVIDE 2 TABLETS FOR TREES UP TO 500mm HIGH; 3 TABLETS FOR TREES OVER 500mm HIGH.
 * PLACE TABLETS EQUIDISTANT AROUND THE PLANT.
 COMPLETE BACKFILLING WITH APPROVED GARDEN SOIL TO AVOID AIR POCKETS
 FORM A SAUCER SHAPED DEPRESSION AROUND BASE OF TREE AND WATER IMMEDIATELY.
 WEED CONTROL MAT. DOUBLE OUTER EDGES AND PIN WITH 4 min GALVANISED PEGS.
- 2. ROOT BARRIERS**
 TRENCH WIDTH 75mm MIN, 1200mm NOM. DEPTH, OR TO SOLID MATERIAL WHEN APPROVED BY THE SUPERINTENDENT.
 PROVIDE GRAVEL FILTER AND CONNECT TO AN OUTLET PIPE WHEN DIRECTED BY THE SUPERINTENDENT.
 INSERT NYLEX ROOT BARRIER AND BACKFILL USING A BLEND OF SPOIL FROM TRENCH AND SODIUM BENTONITE.
 THE RATION OF BENTONITE TO SOIL MAY VARY DEPENDING ON THE TYPE OF SOIL: -
 IE. 1:10 FOR HEAVY CLAY, 1:1 FOR LIGHT SANDY MATERIAL.
 TRENCH SHALL NOT BE LOCATED CLOSER THAN HALF THE DISTANCE FROM CANOPY DRIP LINE AND TRUNK OF TREE.
- 3. PLANTING IN MEDIANS**
 SUBSOIL DRAIN TO BE DIVERTED AROUND ROOT BARRIER.
 UPVC UNSLOTTED PIPE TO BE LAID FOR 3m U/S AND D/S OF TREES.
- 4. ALL DIMENSIONS ARE IN MILLIMETRES.**

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DEPARTMENT COMMUNITY INFRASTRUCTURE			

PROJECT TITLE:	LAND DEVELOPMENT SPECIFICATIONS	
	TREE PLANTING INCLUDING ROOT BARRIERS	
DRAWING TITLE:		
FILE LOC:		
PROJECT/DRAWING NUMBER:	LDS-012	

PAPER SIZE:	A3	
SURVEYED BY:	N/A	
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