

PROPOSED KERB INLET PIT
EXISTING KERB IL +322.989
EXISTING PIPE OL +322.45
STW PIPE SIZE Ø600mm
EXISTING PIPE IL +321.85
PROPOSED INLET PIPE IL +321.930
PROPOSED PIT IL +321.85
EXISTING LEVELS PER CONTOUR AND DETAIL SURVEY BY
PREMISE SURVEYING, ENGINEERING, ENVIRONMENTAL &
TOWN PLANNING CONSULTANTS DATED 23/11/2023

APPROX 10m Ø375mm PIPE
EXTENTION.

PVC ASSUMED Ø200 WATER MAIN
EXISTING OL +322.46 APPROX
EXISTING IL +322.46
STW PIPE IL AT POINT +321.935
STW PIPE OL AT POINT +322.31
ASSUMING Ø300mm PIPE
CLEARANCE = 150mm APPROX

PVC Ø200 WATER MAIN
EXISTING OL +322.25 APPROX
STW PIPE IL AT POINT +322.370
CLEARANCE = 120mm APPROX

APPROX LOCATION OF
EXISTING COUNCIL
STORMWATER LINE

ALL SERVICES TO BE LOCATED
BY BUILDER/CONTRACTOR
PRIOR TO CONSTRUCTION

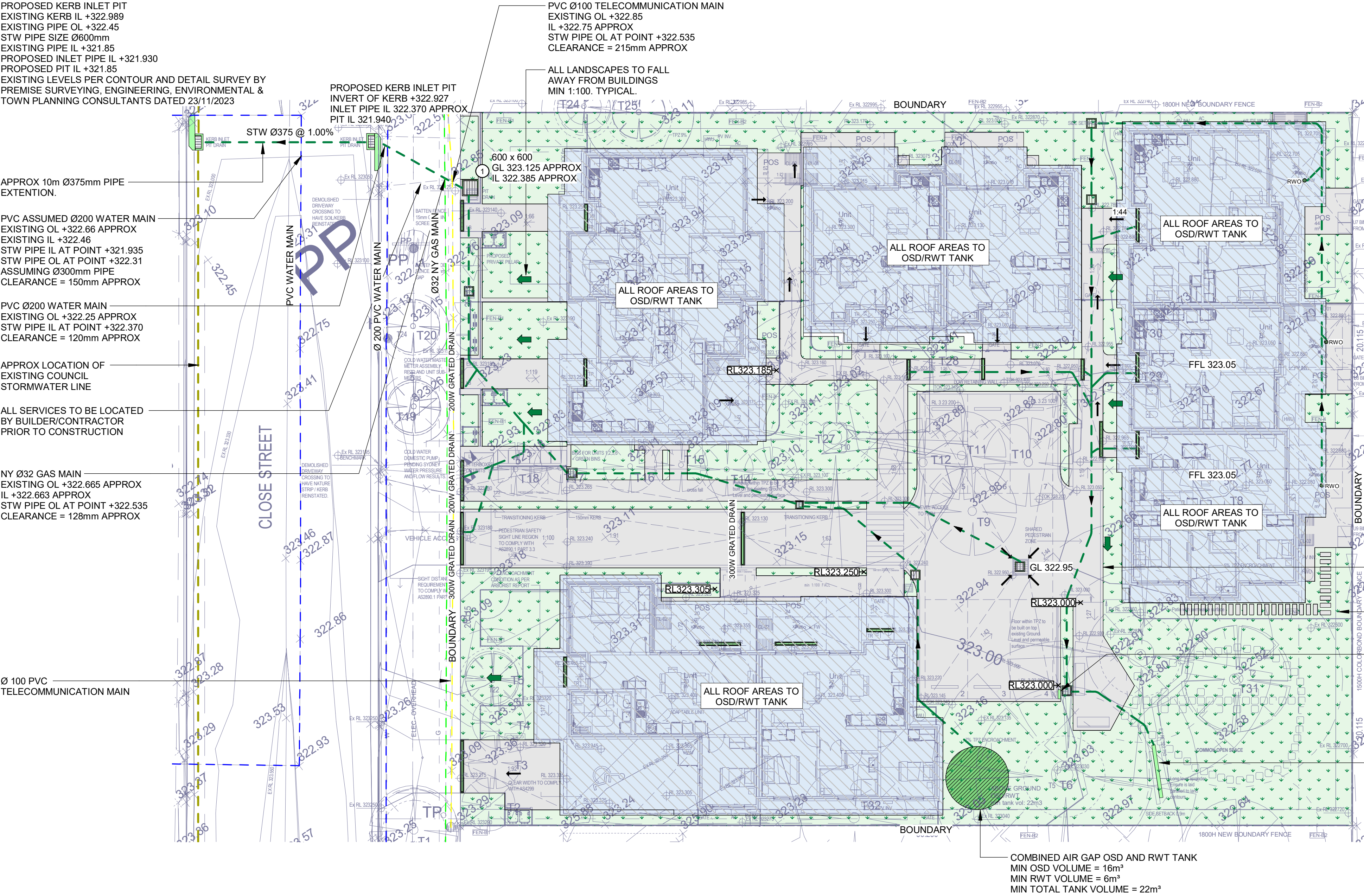
NY Ø32 GAS MAIN
EXISTING OL +322.665 APPROX
IL +322.663 APPROX
STW PIPE OL AT POINT +322.535
CLEARANCE = 128mm APPROX

Ø 100 PVC
TELECOMMUNICATION MAIN

PVC Ø100 TELECOMMUNICATION MAIN
EXISTING OL +322.85
IL +322.75 APPROX
STW PIPE OL AT POINT +322.535
CLEARANCE = 215mm APPROX

ALL LANDSCAPES TO FALL
AWAY FROM BUILDINGS
MIN 1:100. TYPICAL.

PROPOSED KERB INLET PIT
INVERT OF KERB +322.927
INLET PIPE IL 322.370 APPROX
PIT IL 321.940



GENERAL LEGEND

LANDSCAPE
HARDSTAND
ROOF AREA TO DRAIN
OSD

CIV - FIXTURES SCHEDULE		
	TYPE	DESCRIPTION
		GRATED STORMWATER PIT
		PERIMETER STRIP DRAIN
	RWO	RAINWATER OUTLET

CIV - STANDARD SYMBOLS	
	DESCRIPTION
	FALL ARROW
	OVERLAND FLOW PATH

CIV - STORMWATER SERVICES		
	TYPE	DESCRIPTION
	STW	STORMWATER
	STW EX	EXISTING STORMWATER

GROUND FLOOR DRAINAGE PLAN

Scale: 1 : 150

- ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING.
- THE BUILDER/CONTRACTOR SHALL LOCATE ALL EXISTING PUBLIC UTILITY SERVICES WITHIN THE SITE, FOOTPATH AREA AND ROAD RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ALL LOCATIONS AND LEVELS OF SERVICES SHALL BE REPORTED TO THE STORMWATER ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS TO ENSURE THERE ARE NO OBSTRUCTIONS IN THE LINE OF THE DRAINAGE DISCHARGE PIPES.
- PRIOR TO COMMENCING ANY WORKS ON THE SITE, THE BUILDER SHALL ENSURE THAT THE INVERT LEVELS OF WHERE THE SITE STORMWATER SYSTEM CONNECTION INTO COUNCIL'S KERB/DRAINAGE SYSTEM MATCH THE DESIGN LEVELS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY.
- ALL STORMWATER DRAINAGE WORK TO AVOID TREE ROOTS. WHERE NOT POSSIBLE, ALL EXCAVATIONS IN VICINITY OF TREE ROOTS ARE TO BE HAND DUG.
- ALL BASES OF PITS TO BE BENCHED (TO HALF PIPE DEPTH) TO THE INVERT OF THE OUTLET PIPE WITH ALL PIPES CUT FLUSH WITH SIDE OF PIT, TO ALLOW SMOOTH FLOW OF STORMWATER.
- PROVIDE GALVANISED ANGLE SURROUNDINGS TO GRATE WHERE IN TRAFFICABLE AREAS.
- PROVIDE 100mm GAP IN BASE OF FENCE FOR EMERGENCY OVERFLOWS.
- PROVIDE SUBSOIL DRAINAGE AND OUTLETS TO ALL ON PODIUM PLANTER BOXES. OUTLET PIPES NOT SHOWN FOR CLARITY OF DOCUMENTATION.
- ALL DOWNPIPES ARE TO BE PIPE CONNECTED INTO THE FORMAL RAINWATER OR STORMWATER LINE UNLESS SPECIFICALLY NOTED ON THE DRAWINGS OTHERWISE.
- ALL PIPES TO BE 100mmØ @ 1% MINIMUM UNLESS NOTED OTHERWISE.
- ALL BASES OF PITS TO BE BENCHED TO THE INVERT OF THE OUTLET PIPE WITH ALL PIPES CUT FLUSH WITH SIDE OF PIT, TO ALLOW SMOOTH FLOW OF STORMWATER.
- PROVIDE GALVANISED ANGLE SURROUNDINGS TO GRATES IN TRAFFICABLE AREAS.

NOTE: HEAD BETWEEN EAVES GUTTERS AND RWT IS COMPLIANT BUT LIMITED. WE NOTE THAT SOME RAINWATER PIPES FROM GUTTERS MAY HAVE TO BE UPSIZED AS A RESULT TO ACHIEVE HYDRAULIC CAPACITY.

NOTE: ALL EXISTING LEVELS PER CONTOUR AND DETAIL SURVEY BY PREMISE SURVEYING, ENGINEERING, ENVIRONMENTAL & TOWN PLANNING CONSULTANTS DATED 23/11/2023

OSD CALCULATIONS:

- OPTION #1
- PARKES LGA
- DESIGN METHOD: REDUCE 5YR AND 20YR POST-DEVELOPMENT FLOWRATES TO PRE-DEVELOPMENT FLOWRATES
- DEVELOPMENT AREA = 2028m²
- PRE-DEVELOPMENT IMP% = 300m³ [15%]
- POST-DEVELOPMENT AREAS:
 - AREA BYPASSING OSD = 1146m² @ 45% IMP.
 - TO OSD = 882 m³ @ 100% IMP.
 - LONGEST FLOW PATH = 64m @ 1%

USE DRAINS RUNOFF-ROUTING MODEL TO ARR2019 METHODOLOGY (10 PATTERNS PER DURATION)

- DRAINS PARAMETERS: IL = 0mm, CLR = 1.1 mm/hr, N* (HARD) = 0.015, N*(GRASS) = 0.170
- SR20 (5% AEP) = 15.6m³
- Q5 PRE / POST = 30 / 30 L/s
- Q20 PRE / POST = 47 / 43 L/s
- VOLUME PROVIDED IN AIR GAP OSD = 16m³ [OK]

REV.	DATE	BY	DESCRIPTION
3	28.11.2023	JPS	PART 5 ISSUE
2	17.11.2023	JPS	PART 5 ISSUE
1	16.11.2023	JPS	PART 5 ISSUE

PROPOSED DEVELOPMENT

47-49 Close Street, Parkes, NSW

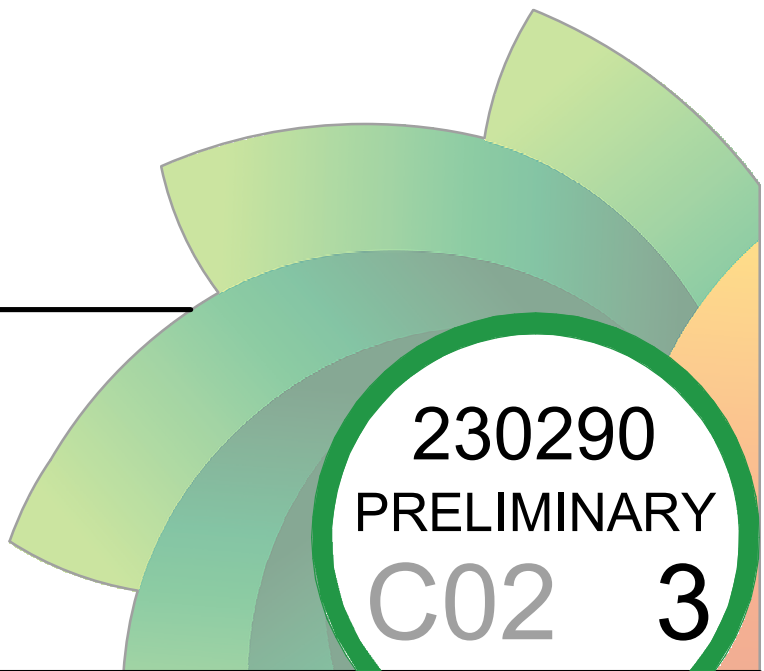
SARM Architects

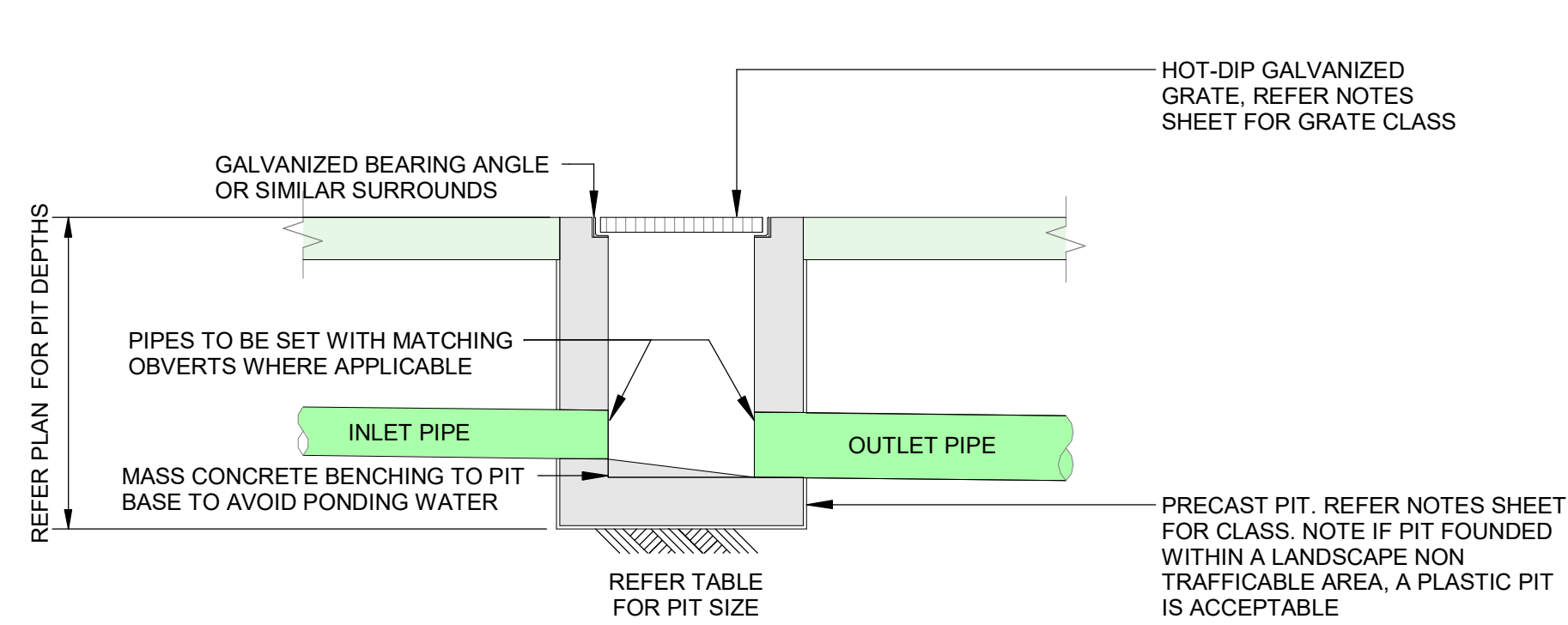


DESIGN: LM DRAWN: JPS CHECKED: AMcK SIZE: A1 SCALE: As indicated

CIVIL DESIGN

GROUND FLOOR DRAINAGE PLAN



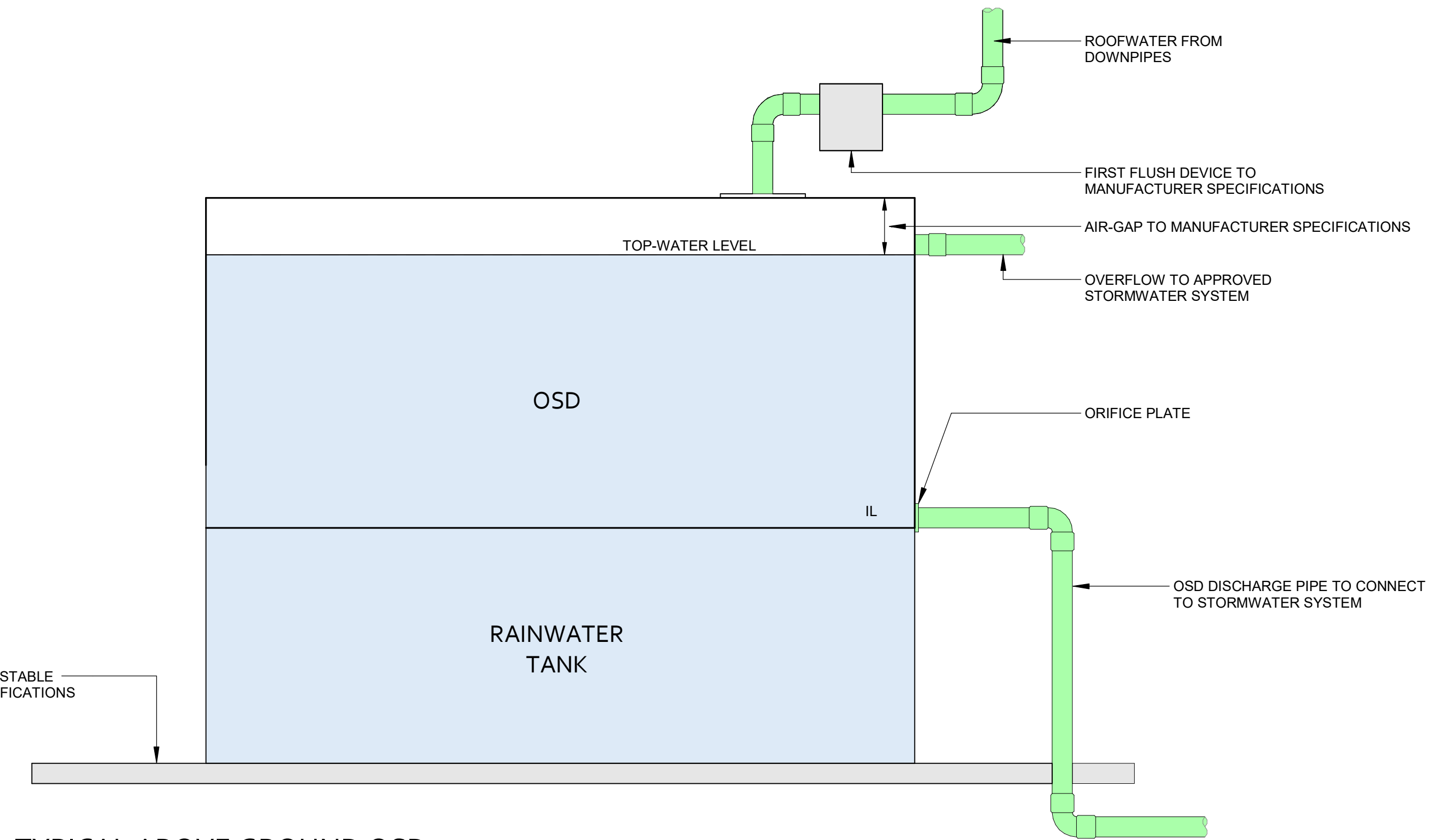


1. ENSURE CLIMB IRONS ARE PROVIDED UNDER LID AT 300 CTS TO COUNCIL'S SPECIFICATIONS WHERE PIT DEPTH IS DEEPER THAN 1000.
2. GREENVIEW RECOMMENDS THE PLUMBER PROVIDES 90Dia x 3000 LONG SUBSOIL DRAINAGE STUB PIPE SURROUNDED WITH 100mm THICKNESS OF NOMINAL 20mm COARSE FILTER MATERIAL WRAPPED IN GEOTEXTILE FILTER FABRIC. (BIDUM A24 OR APPROVED SIMILAR). TO BE PARALLEL TO UPSTREAM SIDE OF EACH INLET PIPE.

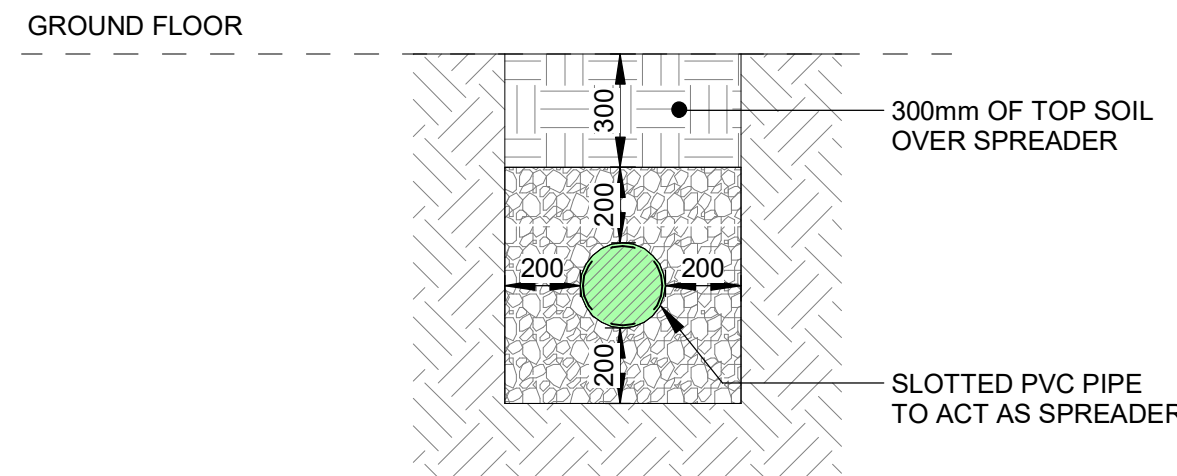
PIT SIZE	
DEPTH	PIT DIMENSION
0 - 600	450 mm x 450 mm
600 - 900	600 mm x 600 mm
900 - 1200	600 mm x 900 mm
1200 +	900 mm x 900 mm

TYPICAL CONCRETE INLET PIT - LANDSCAPE SURFACE
Scale: 1 : 20

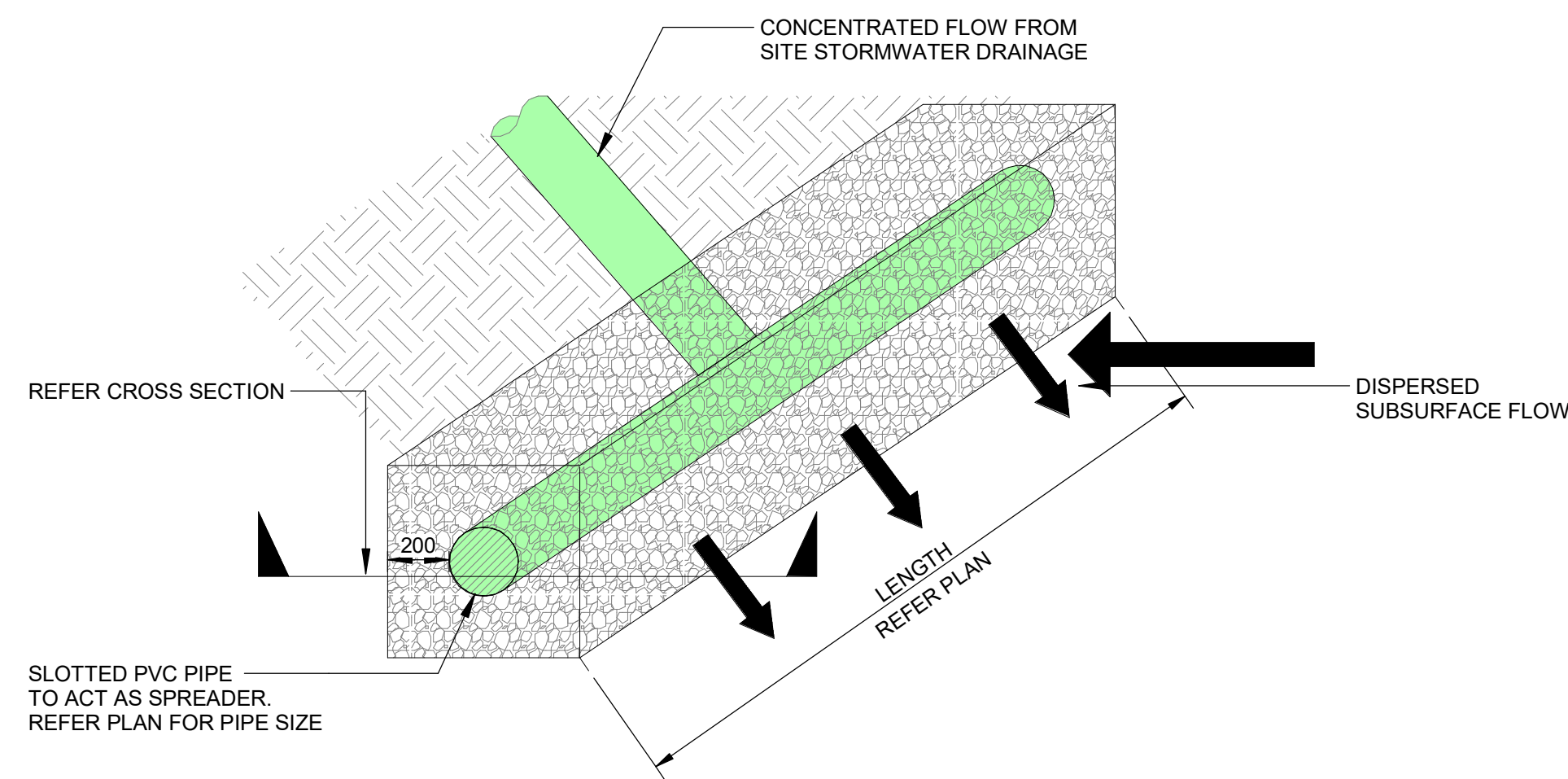
PROVIDE CONCRETE OR OTHER STABLE BASE TO MANUFACTURER SPECIFICATIONS



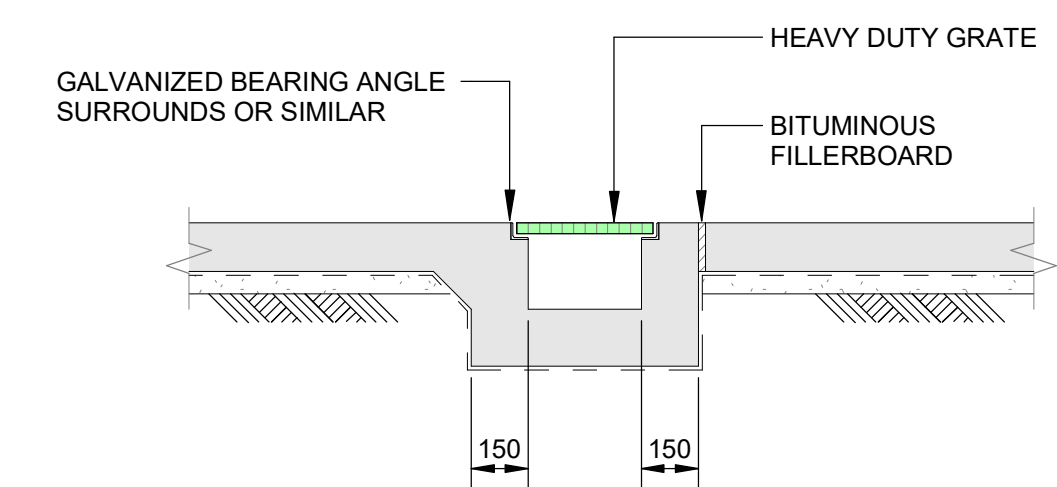
TYPICAL ABOVE GROUND OSD
Scale: 1 : 20



NOTE:
ENSURE PIPE IS LAID PARALLEL TO CONTOURS



LEVEL SPREADER DETAIL
Scale: 1 : 20



TYPICAL GRATED DRAIN DETAIL
Scale: 1 : 20

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2	28.11.2023	JPS	PART 5 ISSUE	
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REV.	DATE	BY	DESCRIPTION	

PROPOSED DEVELOPMENT

47-49 Close Street, Parkes, NSW

SARM Architects



DESIGN: LM

DRAWN: JPS

CHECKED: AMcK

SIZE: A1

SCALE: 1 : 20

CIVIL DESIGN

SITE STORMWATER DETAILS SHEET 1

