RIVER STREET COMMUNITY PRECINCT

48 RIVER STREET
MACLEAN NSW 2463
Job No. N0211295

CIVIL DRAWING LIST

STORMWATER SERVICES

- STORMWATER PIPE
- STORMWATER RISING MAIN PIPE
- EXISTING STORMWATER PIPE
- RAINWATER PIPE
- SUB-SOIL DRAINAGE LINE
- CAST IN SLAB PIPE

STORMWATER LEGEND

- PROPOSED SEALED JUNCTION PIT
- PROPOSED GRATED SUFACE INLET PIT, PIT DIMENSIONS ARE GOVERNED BY DEPTH REFER TO DETAIL.
- EXISTING PIT
- PIT TO BE REMOVED
- PROPOSED KERB INLET PIT
- PROPOSED GRATED DRAIN
- PROPOSED RAINWATER TANK
- DOWNPIPE, RISER OR VERTICAL DROP
- RWO - RAINWATER OUTLET FOR BALCONIES, ROOF, CARPARK ETC
- GS1 - DOWNPIPE WITH RAIN HEAD OVERFLOW
- GS2 - DOWNPIPE WITH SUMP SIDE OVERFLOW
- GS3 - DOWNPIPE WITH SUMP HIGH CAPACITY OVERFLOW
- SWALE DRAIN
- OVERLAND FLOW PATH
- ROOF FALL DIRECTION
- P 35.05 — PROPOSED PAVEMENT SURFACE LEVEL
- GL 35.05 — PROPOSED PIT SURFACE LEVEL
- IL 34.75 — PROPOSED PIT INVERT LEVEL
- FFL 23.56 — PROPOSED FINISHED FLOOR LEVEL
- + 35.11 — EXISTING SURFACE LEVEL
- 36.00 — EXISTING SURVEY CONTOUR

GENERAL PIPEWORK LEGEND

- FLOW DIRECTION
- SERVICE SIZE — PIPE FROM ABOVE
- SERVICE SIZE — PIPE TO BELOW
- FALL DIRECTION
- STW Ø225 @ 1.0%min — PIPE TYPE, SIZE AND GRADE
- CONNECTION
- CONTINUATION
- END CAP
- ? — KEYNOTE TAG

PROJECT INFORMATION TABLE

THE TABLES BELOW ARE TO BE READ IN CONJUNCTION WITH THE ADJACENT NOTES

GEOTECHNICAL INFORMATION

COMPANY	REPORT No.	DATED
CONSTRUCTION SCIENCES	5062.P42	24/03/2022

SURVEY INFORMATION

THE SURVEY INFORMATION ON THESE DRAWINGS HAS BEEN PROVIDED BY

COMPANY	DATED
MACLEAN SHIRE COUNCIL	10/08/1992

NOTE: 1992 IN-GROUND STORMWATER SURVEY DRAWING PROVIDED BY MACLEAN SHIRE COUNCIL TO BE VERIFIED AND CHECKED BY A NEW LOCATING SURVEY TO PROPERLY LOCATE THE EXISTING STORMWATER LINE PRIOR TO CONSTRUCTION

PROOF ROLLING

PROOF ROLLING SPECIFICATIONS

(min) ROLLER WEIGHT	(min) NUMBER OF PASSES
5 TONNE	10

COMPACTION TESTING

RATE OF TESTS	TEST AREA PER LAYER
2	1000m²

-TESTING SHALL BE CARRIED OUT BY A REGISTERED NATA LABORATORY.

RIGID PAVEMENT DESIGN

• DESIGN LIFE 40YEARS

DESIGN VEHICLE	DESIGN CBR	DESIGN TRAFFIC
MRV	5%	ESA

FLEXIBLE PAVEMENT DESIGN

• DESIGN LIFE 20YEARS

DESIGN VEHICLE	DESIGN CBR	DESIGN TRAFFIC
MRV	5	ESA

SAFETY IN DESIGN

THERE ARE INHERENT RISKS WITH CONSTRUCTING, MAINTAINING, OPERATING, DEMOLISHING, DISMANTLING AND DISPOSING THIS DESIGN THAT ARE TYPICAL OF SIMILAR DESIGNS. AS FAR AS IS REASONABLY PRACTICABLE RISKS HAVE BEEN ELIMINATED OR MINIMISED THROUGH THE DESIGN PROCESS. HAZARD CONTROLS MUST STILL BE IMPLEMENTED BY THE CONTRACTOR, OWNER OR OPERATOR TO ENSURE THE SAFETY OF WORKERS.

• JN DO NOT CONSIDER THAT THERE ARE ANY UNIQUE RISKS ASSOCIATED WITH THE DESIGN OF THIS PROJECT.

GENERAL

1. ALL EXISTING LEVELS TO BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF WORKS
2. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NOMINATED OR APPLICABLE COUNCIL SPECIFICATION. WHERE A SPECIFICATION HAS NOT BEEN NOMINATED THEN THE CURRENT NSW DEPARTMENT OF HOUSING CONSTRUCTION SPECIFICATION IS TO BE USED. THE NOMINATED SPECIFICATION SHALL TAKE PRECEDENCE TO THESE NOTES.
3. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT. ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE CONTRACTOR ON SITE. ENGINEERS DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
4. ALL DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECTURAL DRAWINGS & DRAWINGS FROM OTHER CONSULTANTS.
5. THE CONTRACTOR SHOULD REPORT ANY DISCREPANCIES ON THE DRAWINGS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN.
6. THE CONTRACTOR SHOULD LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION AND PROTECT AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE AND/OR ADJUST IF NECESSARY. INFORMATION GIVEN ON THE DRAWINGS IN RESPECT TO SERVICES IS FOR GUIDANCE ONLY AND IS NOT GUARANTEED COMPLETE NOR CORRECT.
7. CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE PERMISSION OF THE OWNER.
8. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED OR REMOVED FROM SITE.
9. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING.
10. ALL DRAINAGE LINES THROUGH ADJACENT LOTS SHALL BE CONTAINED WITHIN EASEMENTS CONFORMING TO COUNCIL'S STANDARDS.
11. THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES AND DEBRIS ETC. TO THE EXTENT SPECIFIED.
12. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL PROVIDE A TRAFFIC MANAGEMENT PLAN PREPARED BY AN ACCREDITED PERSON IN ACCORDANCE WITH RMS REQUIREMENTS, FOR ANY WORK ON OR ADJACENT TO PUBLIC ROADS, PLAN TO BE SUBMITTED TO COUNCIL & RMS.

SURVEY

1. JONES NICHOLSON IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY 3RD PARTY INFORMATION PROVIDED ON THIS DRAWING.
2. ALL LEVELS ARE TO A.H.D.
3. ALL CHAINAGES AND LEVELS ARE IN METRES, AND DIMENSIONS IN MILLIMETRES.
4. SET OUT COORDINATES ARE BASED ON SURVEY DRAWINGS PROVIDED FOR THE PURPOSE OF CARRYING OUT THE ENGINEERING DESIGN.
5. CONTRACTOR SHALL VERIFY ALL SET OUT COORDINATES SHOWN ON THE PLANS BY A REGISTERED SURVEYOR
6. CONTRACTORS SHALL ARRANGE FOR THE WORKS TO BE SET OUT BY A REGISTERED SURVEYOR.
7. ANY DISCREPANCIES SHOULD BE CLARIFIED IN WRITING WITH THE ENGINEER PRIOR TO COMMENCEMENT OF THE WORK FOR CONFIRMATION OF THE SURVEY.

STORMWATER DRAINAGE INSTALLATION

1. SUPPLY & INSTALLATION OF DRAINAGE WORKS TO BE IN ACCORDANCEWITH THESE DRAWINGS, THE COUNCIL SPECIFICATION AND THE CURRENT APPLICABLE AUSTRALIAN STANDARDS.
2. BEDDING OF THE PIPELINES IS TO BE TYPE 'HS2' IN ACCORDANCE WITH THE STANDARDS AND AS FOLLOWS:
   a. COMPACTED GRANULAR MATERIAL IS TO COMPLY WITH THE FOLLOWING GRADINGS:

SIEVE SIZE (mm)	19	2.36	0.60	0.30	0.15	0.075
% MASS PASSING	100	50-100	20-90	10-60	0-25	0-10

   - AND THE MATERIAL PASSING THE 0.075 SIEVE HAVING LOW PLASTICITY AS DESCRIBED IN APPENDIX D OF AS1726.
   b. BEDDING DEPTH UNDER THE PIPE TO BE 100mm.
   c. BEDDING MATERIAL TO BE EXTENDED FROM THE TOP OF THE BEDDING ZONE UP TO 0.3 TIMES PIPE OUTSIDE DIAMETER. THIS REPRESENTS THE 'HAUNCH ZONE'.
   d. THE BEDDING & HAUNCH ZONE MATERIAL IS TO BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 98% WITHIN ROAD RESERVES AND TRAFFICABLE AREAS AND 95% ELSEWHERE FOR COHESIVE MATERIAL OR A MINIMUM DENSITY INDEX OF 70% IN ACCORDANCE WITH THE STANDARDS FOR COHESIONLESS MATERIAL.
   e. COMPACTION TESTING SHALL BE CARRIED OUT BY AN APPROVED ORGANISATION WITH A NATA CERTIFIED LABORATORY FOR ALL DRAINAGE LINES LAID WHOLLY OR IN PART UNDER THE KERB & GUTTER OR PAVEMENT.
3. BACKFILL SHALL BE PLACED & COMPACTED IN ACCORDANCE WITH THE SPECIFICATION. A GRANULAR GRAVEL AGGREGATE MATERIAL (<10mm) BACKFILL IS RECOMMENDED FOR THE BEDDING, HAUNCH SUPPORT AND SIDE ZONE DUE TO IT'S SELF COMPACTING ABILITY.
4. A MINIMUM OF 150mm CLEARANCE IS TO BE PROVIDED BETWEEN THE OUTSIDE OF THE PIPE BARREL AND THE TRENCH WALL FOR PIPES < 600 DIA. 200mm CLEARANCE FOR PIPES 600 TO 1200 DIA AND D/6 CLEARANCE FOR PIPES > 1200 DIA.

STORMWATER DRAINAGE

1. STORMWATER DRAINAGE SHALL BE GENERALLY IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARDS AND COUNCIL'S SPECIFICATION.
2. PIPES OF 225mm DIA. AND UNDER SHALL BE UPVC.
3. PIPES OF 300mm DIA. AND LARGER SHALL BE FRC OR CONCRETE CLASS 2 RUBBER RING JOINTED UNO.
4. ALL FRC OR RCP STORMWATER PIPES WITHIN ROAD RESERVE AREAS TO BE CLASS 3 U.N.O.
5. MINIMUM COVER TO PIPES 300mm DIA. AND OVER GENERALLY SHALL BE 600mm IN CARPARK & ROADWAY AREAS UNO.
6. PIPES SHALL GENERALLY BE LAID AT THE GRADES INDICATED ON THE DRAWINGS.
7. PIPES UP TO 150mm DIA SHALL BE LAID AT 1.0% MIN. GRADE U.N.O.
8. PIPES 225mm DIA AND OVER SHALL BE LAID AT 0.5% MIN. GRADE U.N.O.
9. BACKFILL TRENCHES WITH APPROVED FILL COMPACTED IN 200mm LAYERS TO 98% OF STANDARD DENSITY.
10. ANY PIPES OVER 16% GRADE SHALL HAVE CONCRETE BULKHEADS AT ALL JOINTS.
11. PITS SHALL BE AS DETAILED WITH METAL GRATES AT LEVELS INDICATED. ALL PITS DEEPER THAN 1200mm TO HAVE CLIMB IRONS.
12. BUILD INTO UPSTREAM FACE OF ALL PITS A 3.0m SUBSOIL LINE FALLING TO PITS TO MATCH PIT INVERTS.
13. ALL COURTYARD & LANDSCAPED PITS TO BE 450 SQUARE LOAD CLASS A UNLESS NOTED OTHERWISE.
14. ALL DRIVEWAY & OSD PITS TO BE 600 SQUARE LOAD CLASS D UNLESS NOTED OTHERWISE.
15. INSTALL TEMPORARY SEDIMENT BARRIERS TO INLET PITS, TO COUNCIL'S STANDARDS UNTIL SURROUNDING AREAS ARE PAVED OR GRASSED.
16. PITS & DOWNPIPE LOCATIONS AND LEVELS MAY BE VARIED TO SUIT SITE CONDITIONS AFTER CONSULTING THE ENGINEER.
17. DOWNPIPES SHOWN ARE INDICATIVE ONLY. ALL ROOF GUTTERING AND DOWNPIPES TO THE CURRENT AUSTRALIAN STANDARDS.
18. ALL PLANTER BOXES AND BALCONIES TO BE CONNECTED TO THE PROPOSED STORMWATER DRAINAGE LINE.
19. HAND-EXCAVATE STORMWATER PIPES IN VICINITY OF TREE ROOTS.
20. FOOTPATH CROSSING LEVELS SHOWN ARE TO BE ADJUSTED TO FINAL COUNCIL'S ISSUED LEVELS.
21. GEOTEXTILE FABRIC TO BE PLACED UNDER RIP RAP SCOUR PROTECTION.
22. ALL BASES OF PITS TO BE BENCHED TO HALF PIPE DEPTH AND PROVIDE GALVANISED ANGLE SURROUNDINGS TO GRATE.
23. SUBSOIL LINE PIPES AND FITTINGS SHALL BE PERFORATED PLASTIC TO CURRENT AUSTRALIAN STANDARDS. LAY PIPES ON FLOOR OF TRENCH GRADED AT 1% MIN. AND OVERLAY WITH FILTER MATERIAL EXTENDING TO WITHIN 200mm OF SURFACE. PROVIDE FILTER FABRIC OF PERMEABLE POLYPROPYLENE BETWEEN FILTER MATERIAL AND TOPSOIL
24. SHOULD THE CONTRACTOR ELECT TO INSTALL PRECAST STORMWATER PITS AND THEY ARE PERMITTED BY COUNCIL AND THE CLIENT, THE PRECAST PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH RMS STANDARDS INCLUDING:
    1. SEAL THE SEGMENTS TOGETHER USING A SITE-APPROVED NON-SHRINK GROUT OR MASTIC-TYPE PRODUCT. APPLY THE SEALANT IN ACCORDANCE WITH THE PRODUCT MANUFACTURER'S REQUIREMENTS.
    2. ENSURE THAT NO GAPS REMAIN AND THAT A SMOOTH FACE EXISTS BETWEEN MULTIPLE UNITS.
    3. LEAVE THE SEGMENTS UNDISTURBED UNTIL THE PERIOD OF CURING IS COMPLETED IN ACCORDANCE WITH THE GROUT OR SEALANT PRODUCT MANUFACTURER'S REQUIREMENTS.

No	DATE	BY	DESCRIPTION
1	30.06.23	LTR	ISSUED FOR 90% PRELIMINARY

JN Responsive Engineering

CLIENT
CLARENCE VALLEY COUNCIL

STATUS
PRELIMINARY

DISCIPLINE
CIVIL DESIGN #23

DRAWING TITLE
NOTES & LEGEND

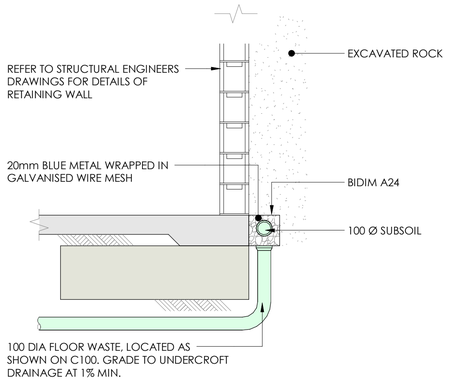
PROJECT
RIVER STREET COMMUNITY PRECINCT

ADDRESS
48 RIVER STREET
MACLEAN NSW 2463

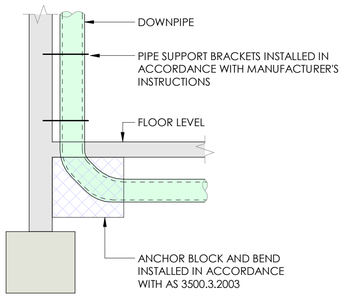
PROJECT DETAILS
DESIGN :
DRAWN :
START DATE :
DRG SIZE A1
SCALE 1 : 1
PROJECT MGR WW

WWW.JN.COM.AU

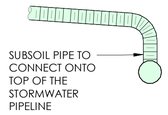
N0211295
C001 1



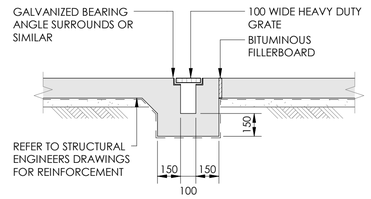
TYPICAL GROUNDWATER DRAINAGE DETAIL
SCALE 1 : 20



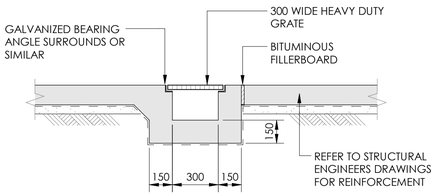
TYPICAL VERTICAL DROP DETAIL
SCALE 1 : 20



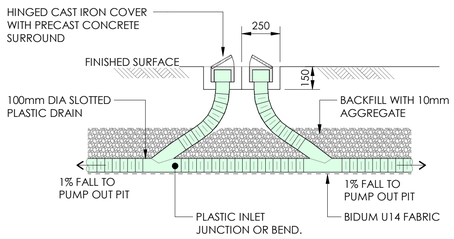
SUBSOIL PIPE CONNECTION
SCALE 1 : 20



TYPICAL 100mm GRATED DRAIN DETAIL
SCALE 1 : 20

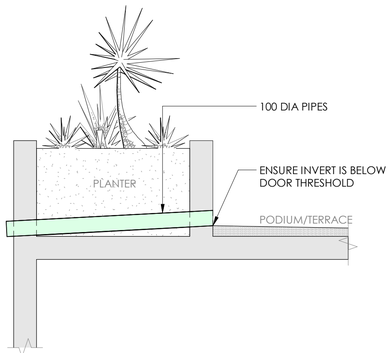


TYPICAL 300mm GRATED DRAIN DETAIL
SCALE 1 : 20

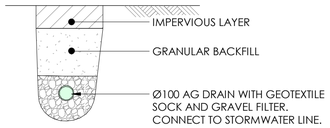


NOTES :
- MINIMUM GRADE OF SUBSOIL DRAINAGE PIPES IS TO BE 1.0%. JOINTS IN FILTER FABRIC TO BE LAPPED A MINIMUM 300mm.

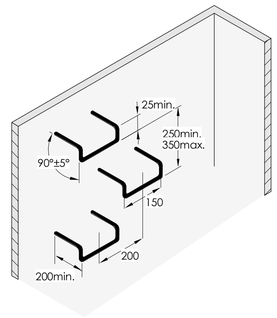
SUBSOIL PIPE FLUSHING POINT
SCALE 1 : 20



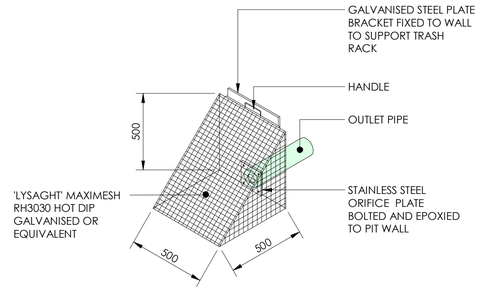
TYPICAL PLANTER OVERFLOW DETAIL
SCALE 1 : 20



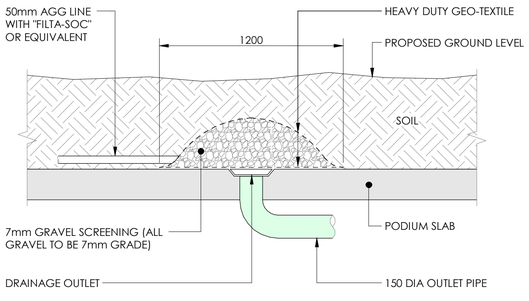
TYPICAL SUBSOIL LINE
SCALE 1 : 20



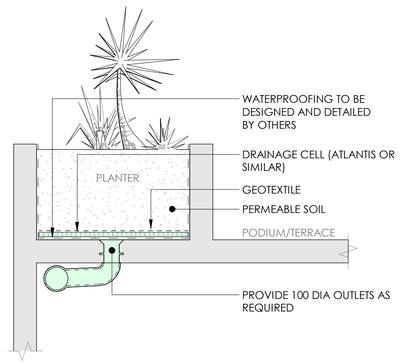
STEP IRON DETAIL
SCALE 1 : 20



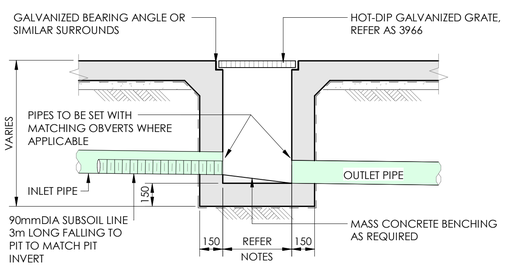
TYPICAL TRASH RACK SCREEN DETAIL
SCALE 1 : 20



TYPICAL SUBSOIL OUTLET DETAIL
SCALE 1 : 20



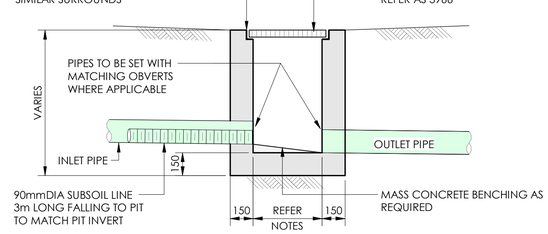
TYPICAL PLANTER DRAINAGE DETAIL
SCALE 1 : 20



MINIMUM INTERNAL DIMENSIONS FOR STORMWATER PITS			
DEPTH OF INVERT OF OUTLET		DEPTH OF INVERT OF OUTLET	
		WIDTH	LENGTH
	< 600	450	450
> 600		600	600
> 900		600	900
> 1200		900	900
*STEP IRONS SHALL BE PROVIDED FOR PITS WITH DEPTHS EXCEEDING 1000mm			

NOTE:
1. CLIMB IRONS SHALL BE PROVIDED UNDER LID AT 300 CTS TO COUNCIL STANDARDS WHERE PIT DEPTH IS DEEPER THAN 1000.
2. PROVIDE 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.
3. ALTERNATIVE PIT CONSTRUCTION MAY BE USED SUBJECT TO THE ENGINEERS APPROVAL.
4. CONCRETE STRENGTH F'c = 32 MPa

TYPICAL CONCRETE INLET PIT - CONCRETE SURFACE
SCALE 1 : 20



MINIMUM INTERNAL DIMENSIONS FOR STORMWATER PITS			
DEPTH OF INVERT OF OUTLET		DEPTH OF INVERT OF OUTLET	
		WIDTH	LENGTH
	< 600	450	450
> 600		600	600
> 900		600	900
> 1200		900	900
*STEP IRONS SHALL BE PROVIDED FOR PITS WITH DEPTHS EXCEEDING 1000mm			

NOTE:
1. CLIMB IRONS SHALL BE PROVIDED UNDER LID AT 300 CTS TO COUNCIL STANDARDS WHERE PIT DEPTH IS DEEPER THAN 1000.
2. PROVIDE 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.
4. ALTERNATIVE PIT CONSTRUCTION MAY BE USED SUBJECT TO THE ENGINEERS APPROVAL.
5. CONCRETE STRENGTH F'c = 32 MPa

TYPICAL CONCRETE INLET PIT - NATURAL SURFACE
SCALE 1 : 20

No	DATE	BY	DESCRIPTION
1	30.06.23	LTR	ISSUED FOR 90% PRELIMINARY

JN Responsive Engineering

CLIENT
CLARENCE VALLEY COUNCIL

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DISCIPLINE
CIVIL DESIGN
#23

DRAWING TITLE
TYPICAL DETAILS - SHEET 1

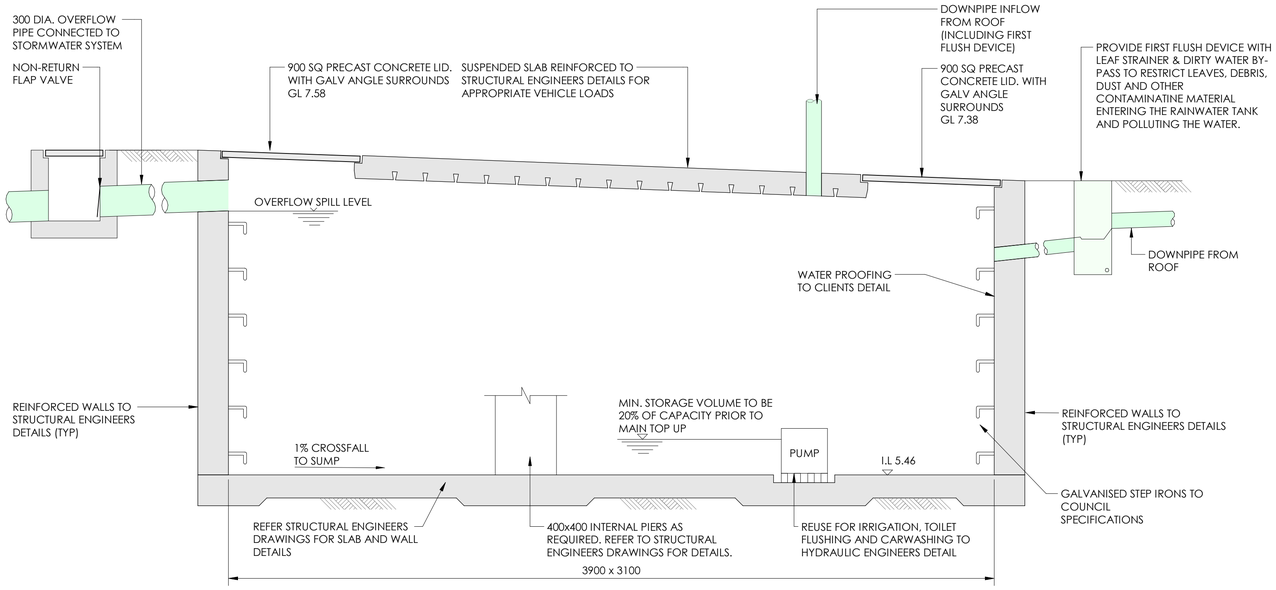
PROJECT
RIVER STREET COMMUNITY PRECINCT

ADDRESS
48 RIVER STREET
MACLEAN NSW 2463

PROJECT DETAILS
DESIGN -
DRAWN -
START DATE
DRG SIZE A1
SCALE 1 : 20
PROJECT MGR WW

WWW.JN.COM.AU

N0211295
C050 1



NOTE:
RAINWATER TANKS TO BE 20,000 LITRE CAPACITY USED FOR INDOOR TOILET FLUSHING, & OUTDOOR IRRIGATION.
SYDNEY WATER TOP-UP SYSTEM INSTALLED TO AS/NZS 3500.1 (2003) IS TO BE PROVIDED FOR TRICKLE TOP-UP OF RAINWATER TANK IF THE STORED WATER BECOMES LESS THAN SET MINIMUM WATER LEVEL.

ALTERNATE PUMP WITH 3 WAY SWITCHING DEVICE, (RAINBANK OR EQUIVALENT) CONNECTED TO WATER SUPPLY TO HYDRAULIC CONSULTANTS DETAIL.

INSTALL FIRST FLUSH DEVICE TO RESTRICT LEAVES, DEBRIS, DUST AND OTHER CONTAMINATING MATERIAL ENTERING THE RAINWATER TANK AND POLLUTING THE WATER. VOLUME OF INITIAL STORAGE TO BE APPROXIMATELY 0.1m2 WITH A 5mm DIAMETER LEAKAGE HOLE.

VOLUME AND RETICULATION REQUIREMENTS TO BASIX AND SECTION J ASSESSMENT.

RAINWATER TANK (RWT) - UNDERGROUND BLOCKWORK

SCALE 1 : 20

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DISCIPLINE
CIVIL DESIGN #23

DRAWING TITLE
TYPICAL DETAILS - SHEET 2

PROJECT
RIVER STREET COMMUNITY PRECINCT

ADDRESS
48 RIVER STREET
MACLEAN NSW 2463

PROJECT DETAILS
DESIGN -
DRAWN -
START DATE -
DRG SIZE A1
SCALE 1 : 20
PROJECT MGR WW

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N0211295
C051 1

	ROOF TO RAINWATER TANK	1459m²
	PERVIOUS	349m²
	IMPERVIOUS	222m²
	BYPASS	127m²

CATCHMENT LEGEND

Treatment Train Effectiveness - Post-Development Node

	Sources	Residual Load	% Reduction
Flow (ML/yr)	1.67	0.992	40.5
Total Suspended Solids (kg/yr)	86.6	12.6	85.4
Total Phosphorus (kg/yr)	0.295	0.0677	77
Total Nitrogen (kg/yr)	3.66	1.25	65.9
Gross Pollutants (kg/yr)	41.3	0	100

MUSIC MODEL & RESULTS

WSUD PLAN
SCALE 1 : 200

No	DATE	BY	DESCRIPTION
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CLIENT
CLARENCE VALLEY COUNCIL

STATUS
PRELIMINARY

DISCIPLINE
CIVIL DESIGN R23

DRAWING TITLE
WSUD PLAN

PROJECT
RIVER STREET COMMUNITY PRECINCT

ADDRESS
48 RIVER STREET
MACLEAN NSW 2463

PROJECT DETAILS
DESIGN :
DRAWN :
START DATE :
DRG SIZE : A1
SCALE : 1 : 200
PROJECT MGR : WW

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N0211295
C052 1

PROPOSED 2.5m x 1m WATER QUALITY CHAMBER FOR 4 x 690mm PSORB FILTERS. FILTERED WATER TO RUN INTO ADJACENT PIT

RETURN VALVE TO PREVENT WATER RETURNING TO THE WATER QUALITY CHAMBER

LOW FLOW DISCHARGE TO RUN INTO WATER QUALITY CHAMBER. HIGH FLOW BYPASS TO RUN INTO ADJACENT PIT AND TO OUTLET INTO EXISTING PIT

PROPOSED 20KL UNDERGROUND RAINWATER TANK. ALL ROOF WATER TO RUN INTO RAINWATER TANK. OVERFLOW FROM RAINWATER TANK TO CONNECT INTO ADJACENT STORMWATER SYSTEM

EXISTING PIPE TO BE DECOMMISSIONED AND REMOVED

PROPOSED SUBSOIL DRAINAGE FOR CUT-IN AREAS. TO CONNECT INTO BASEMENT STORMWATER SYSTEM

LOCATION OF NEW JUNCTION PIT TO DIVERT STORMWATER LINE AROUND PROPOSED BASEMENT. TO DROP LEVEL OF PIPE TO BE UNDER BASEMENT SLAB WITH MINIMUM CLEARANCES PROVIDED

DIVERT OLD EXISTING PIPE FROM PREVIOUS UPSTREAM PIT AND DECOMMISSION OLD LINE

SEE C200 FOR CONTINUATION

NOTES:

TOTAL SITE AREA = 2,156.6m²

EXISTING
EFFECTIVE IMPERVIOUS AREA = 1,258.7m² (58.4%)
REMAINING IMPERVIOUS AREA = 255.5m² (11.8%)
PERVIOUS AREA = 642.4m² (29.8%)

PROPOSED
EFFECTIVE IMPERVIOUS AREA = 1,509.5m² (70.0%)
REMAINING IMPERVIOUS AREA = 172.1m² (8.0%)
PERVIOUS AREA = 475.0m² (22.0%)

DRAINS MODELLING PRE VS POST SITE DISCHARGE:
EXISTING 1% AEP DISCHARGE = 131L/s
PROPOSED 1% AEP DISCHARGE = 132L/s

PROPOSED NO OSD ON SITE DUE TO MINOR INCREASE IN PROPOSED DISCHARGE OF 1L/s IN A 1% AEP STORM. ALL STORMS UP TO 20% AEP SHOW A DECREASED POST DISCHARGE AGAINST THE PRE-DEVELOPMENT

BASEMENT STORMWATER PLAN

SCALE 1 : 100

No	DATE	BY	DESCRIPTION
1	30.06.23	LTR	ISSUED FOR 90% PRELIMINARY

JN Responsive Engineering

CLIENT
CLARENCE VALLEY COUNCIL

STATUS
PRELIMINARY

DISCIPLINE
CIVIL DESIGN R23

DRAWING TITLE
BASEMENT 1 STORMWATER PLAN

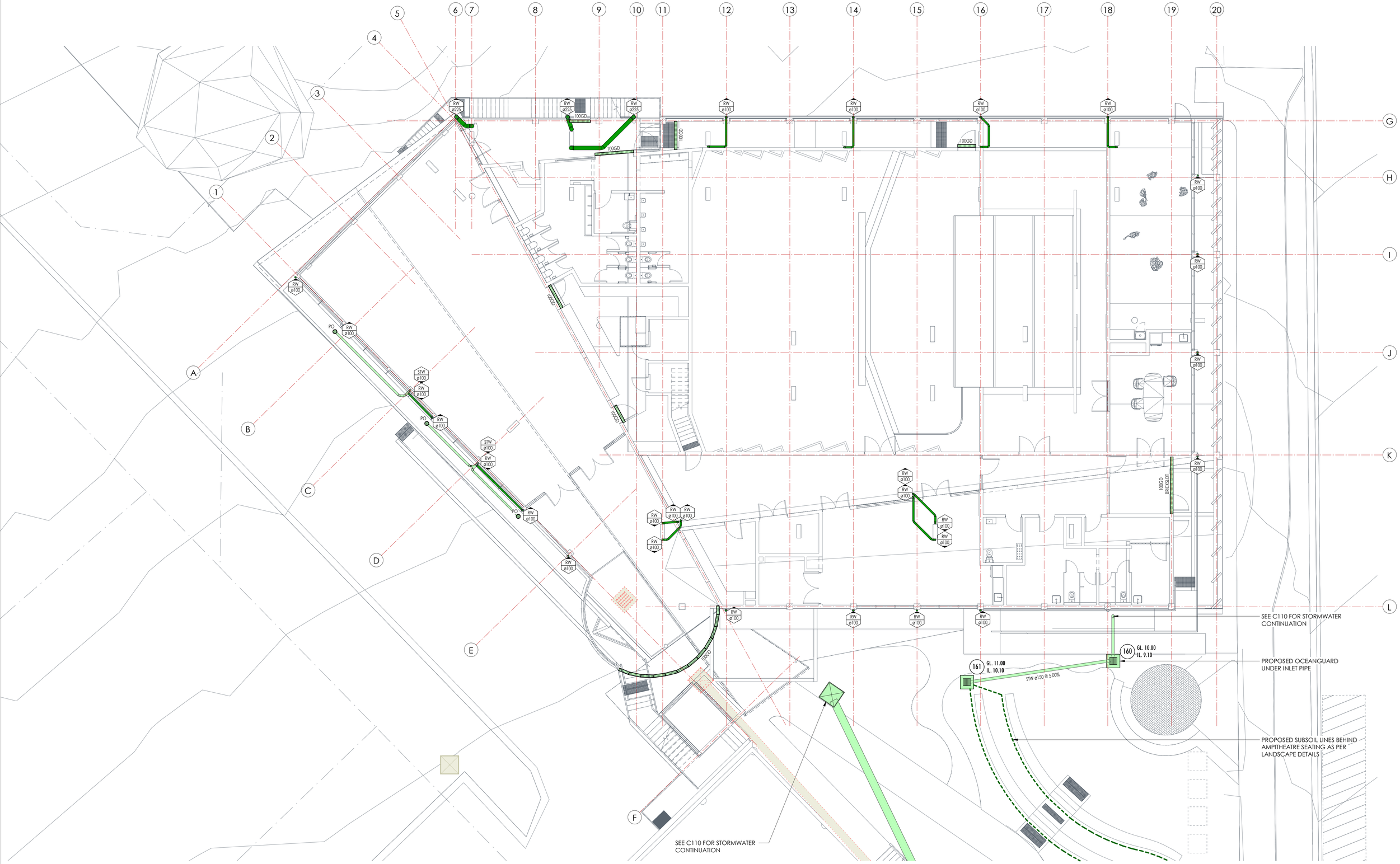
PROJECT
RIVER STREET COMMUNITY PRECINCT

ADDRESS
48 RIVER STREET
MACLEAN NSW 2463

PROJECT DETAILS
DESIGN :
DRAWN :
START DATE :
DRG SIZE : A1
SCALE : 1 : 100
PROJECT MGR : WW

WWW.JN.COM.AU

N0211295
C110 1



GROUND FLOOR STORMWATER PLAN

SCALE 1 : 100

No	DATE	BY	DESCRIPTION
1	30.06.23	LTR	ISSUED FOR 90% PRELIMINARY

JN Responsive Engineering

CLIENT
CLARENCE VALLEY COUNCIL

STATUS
PRELIMINARY

DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
GROUND STORMWATER PLAN

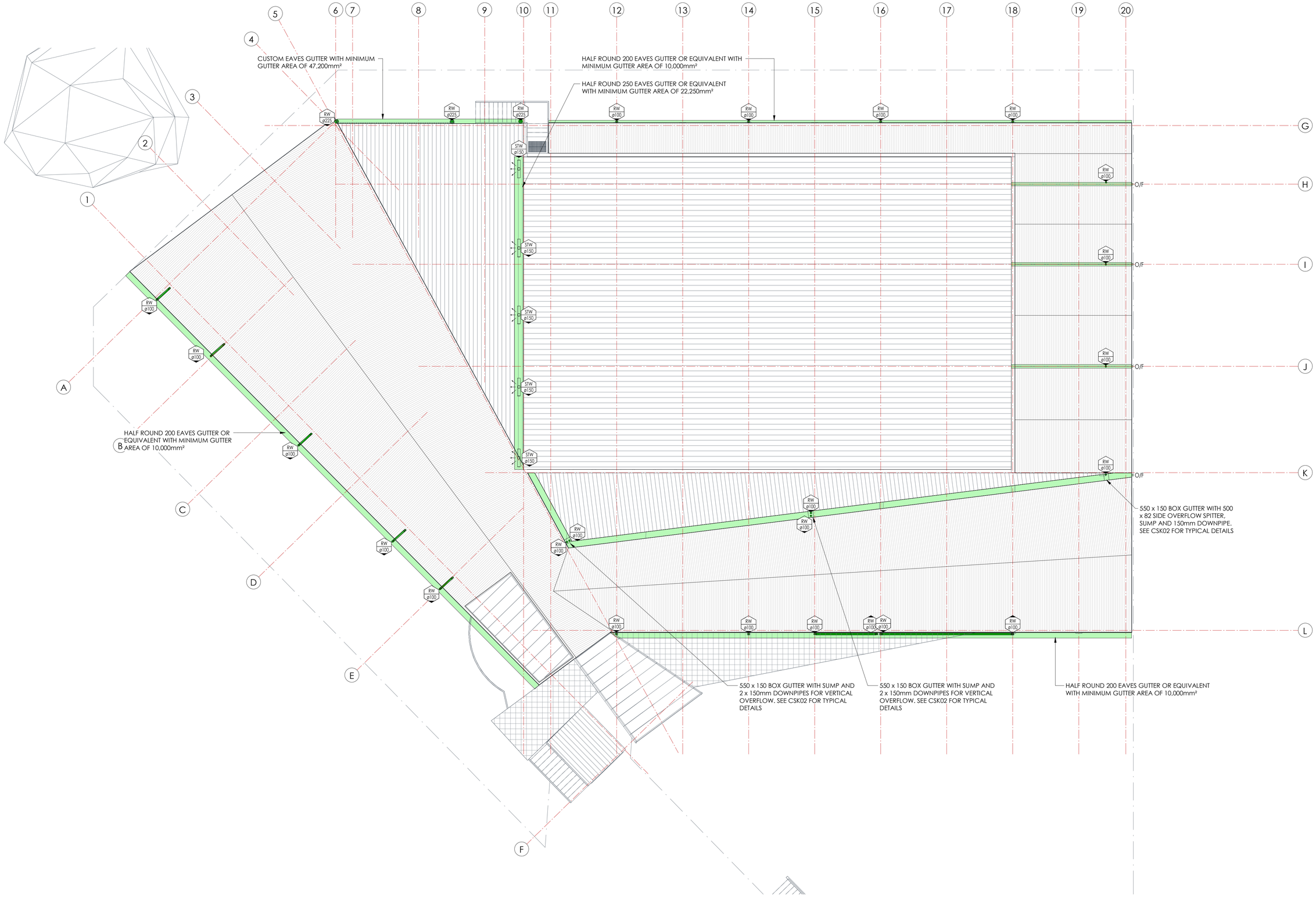
PROJECT
RIVER STREET COMMUNITY PRECINCT

ADDRESS
48 RIVER STREET
MACLEAN NSW 2463

PROJECT DETAILS
DESIGN -
DRAWN -
START DATE
DRG SIZE A1
SCALE 1 : 100
PROJECT MGR WW

WWW.JN.COM.AU

N0211295
C200 1



ROOF STORMWATER PLAN

SCALE 1 : 100

No	DATE	BY	DESCRIPTION
1	30.06.23	LTR	ISSUED FOR 90% PRELIMINARY

Responsive Engineering

CLIENT
CLARENCE VALLEY COUNCIL

STATUS
PRELIMINARY

DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
ROOF STORMWATER PLAN

PROJECT
RIVER STREET COMMUNITY PRECINCT

ADDRESS
48 RIVER STREET
MACLEAN NSW 2463

PROJECT DETAILS
DESIGN -
DRAWN -
START DATE
DRG SIZE A1
SCALE 1 : 100
PROJECT MGR WW

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N0211295
C300 1