

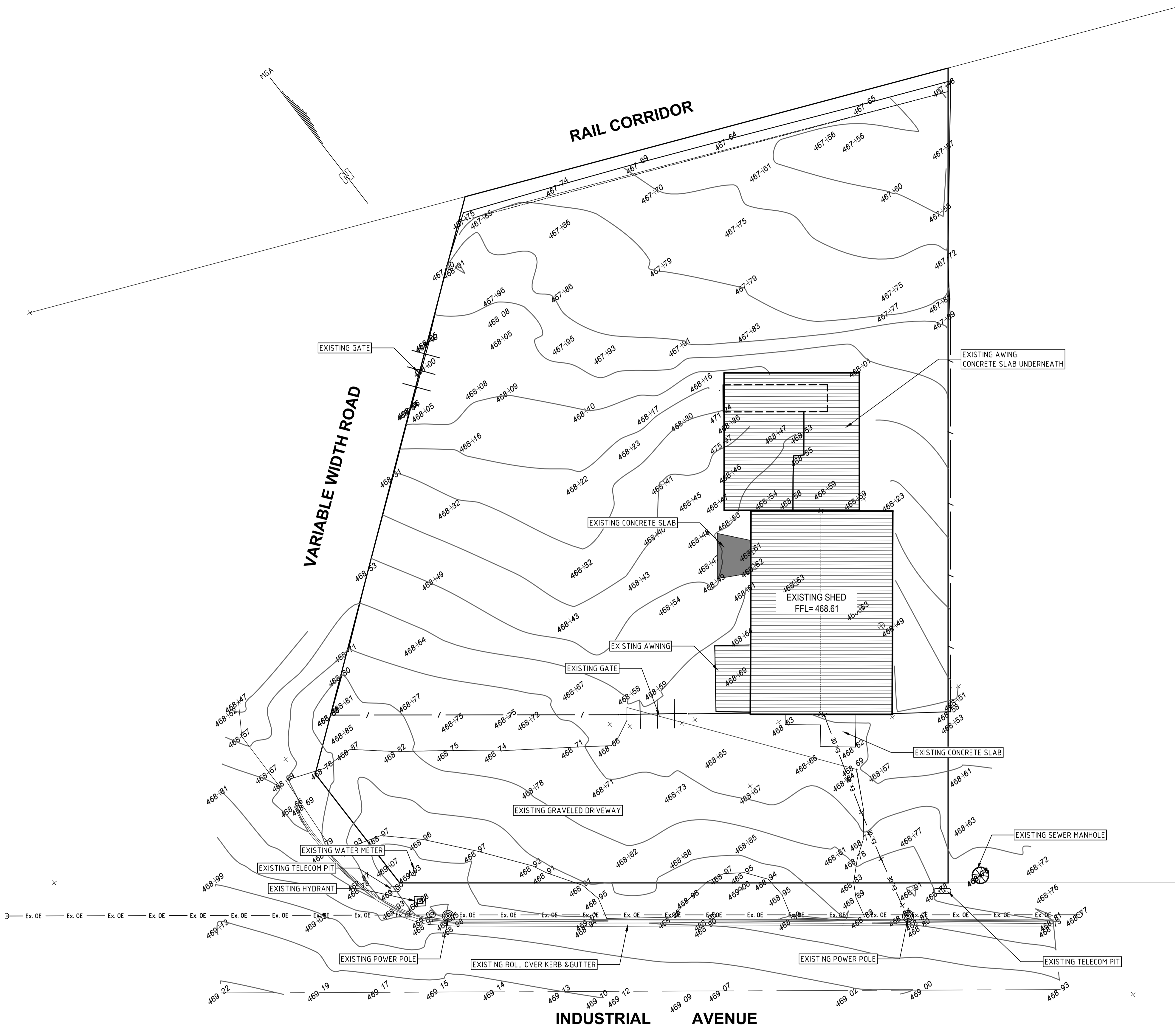
# HOT ENGINEERING

## STORMWATER DESIGN FOR PROPOSED INDUSTRIAL SHED 10 INDUSTRIAL AVE, MUDGEES, NSW 2850

### DRAWING SCHEDULE

36881-C00	CIVIL ENGINEERING DESIGN - COVER SHEET
36881-C01	EXISTING SITE PLAN
36881-C02	PROPOSED SITE PLAN
36881-C10	STORMWATER MANAGEMENT PLAN
36881-C11	ROOF DRAINAGE PLAN
36881-C12	STORMWATER TYPICAL DETAILS AND NOTES

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LEGEND	
	EXISTING SUBJECT CADASTRAL BOUNDARIES
	EXISTING ADJOINING CADASTRAL BOUNDARIES
	EXISTING EASEMENT
	EXISTING SEWER MANHOLE
	EXISTING OVERHEAD POWER LINE
	EXISTING FENCE

- NOTES:
- CONTOUR INTERVAL = 0.1m
  - CONTOURS AND LEVELS SHOWN ARE FROM EXTERNALLY SUPPLIED CAD DATA. BARNSON TAKES NO RESPONSIBILITY FOR THE ACCURACY OF THIS DATA.
  - NO CADASTRAL BOUNDARIES, EASEMENTS, RESTRICTIONS OR ENCUMBRANCES HAVE BEEN INVESTIGATED BY BARNSON.
  - SERVICE LOCATIONS AND DEPTHS SHOWN HEREON ARE FROM EXTERNALLY SUPPLIED CAD DATA. BARNSON TAKES NO RESPONSIBILITY FOR THE ACCURACY OF THIS DATA. THE LOCATION OF AND DEPTHS OF ALL SERVICES SHOULD BE OBTAINED FROM SERVICE PROVIDERS, LOCATED AND VERIFIED ON SITE PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION.
  - UNDERGROUND SERVICES MAY EXIST WHICH HAVE NOT BEEN SHOWN ON THIS PLAN.

SCALE 1:200(A1)  
  
 SCALE 1:400(A3)  
  
**EXISTING SITE PLAN**  
 REDUCTION RATIO 1:200 @ A1  
 1:400 @ A3

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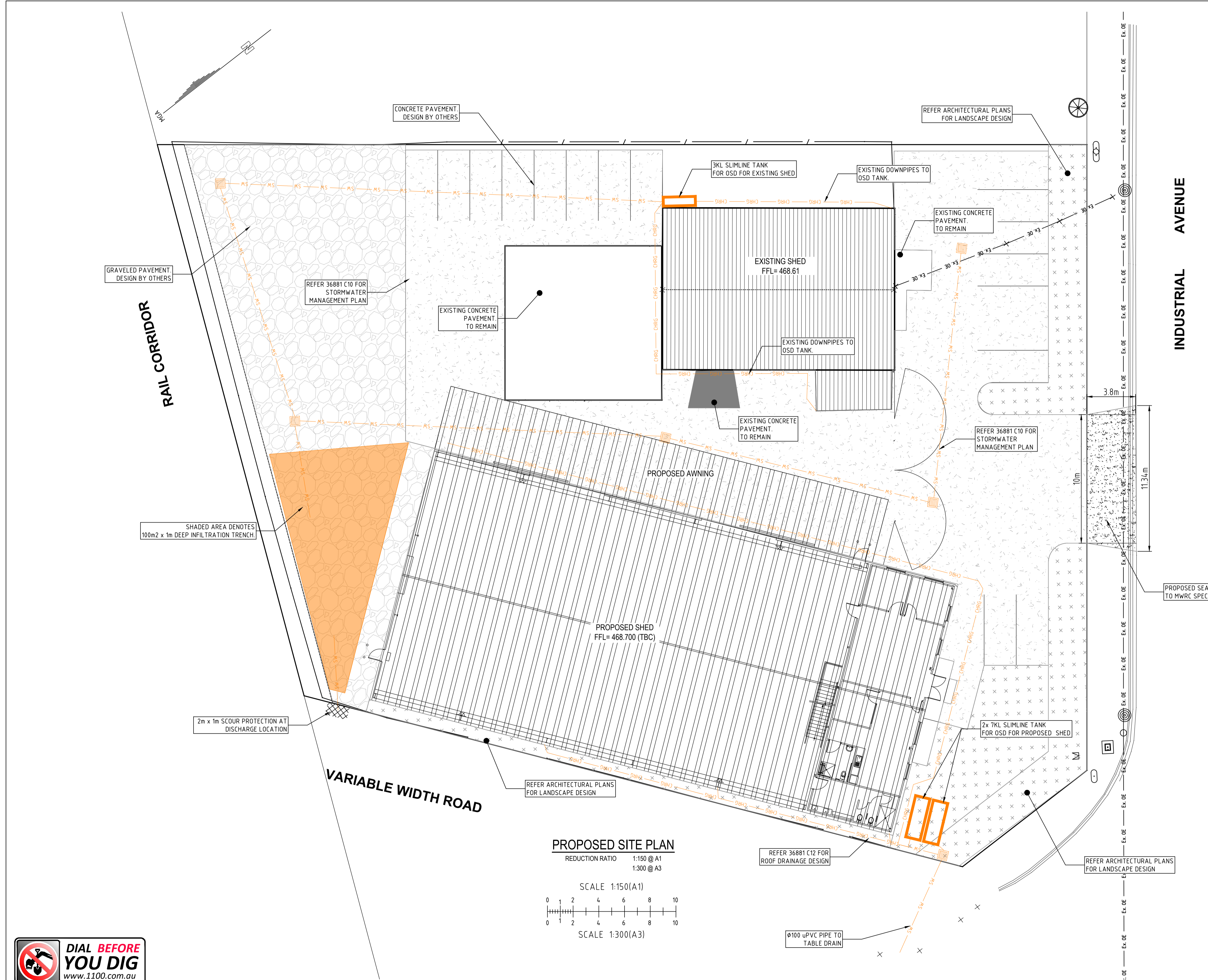
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Client: **HOT ENGINEERING**  
 Project: **PROPOSED DEVELOPMENT ON LOT 1 IN DP 262948 10 INDUSTRIAL AVENUE, MUDGEE, 2850**  
 Drawing Title: **EXISTING SITE PLAN**

Rev	Date	Amendment
A	05/07/21	ISSUED FOR APPROVAL

Design	ST	Certification	
Drawn	MK		
Check	LM	Drawing Number	
Original Sheet Size = A1		<b>36881 - C01</b>	Revision <b>A</b>





**LEGEND**

- EXISTING SUBJECT CADASTRAL BOUNDARIES
- EXISTING ADJOINING CADASTRAL BOUNDARIES
- EXISTING EASEMENT
- EXISTING SEWER MANHOLE
- EXISTING OVERHEAD POWER LINE
- EXISTING FENCE
- EXISTING CONCRETE PAVEMENT/SLAB TO REMAIN
- EXISTING ROOF AREA

**LEGEND (proposed)**

- EXTENT OF PROPOSED ROOF
- PROPOSED UNDERGROUND STORMWATER PIPE
- CHARGED ROOF DRAINAGE LIEN
- PROPOSED GRATED STORMWATER PIT
- PROPOSED GRASSED/LANDSCAPED AREA
- PROPOSED GRAVELED PAVEMENT
- PROPOSED CONCRETE PAVEMENT

**PROPOSED SITE PLAN**  
 REDUCTION RATIO 1:150 @ A1  
 1:300 @ A3  
 SCALE 1:150(A1)  
 SCALE 1:300(A3)



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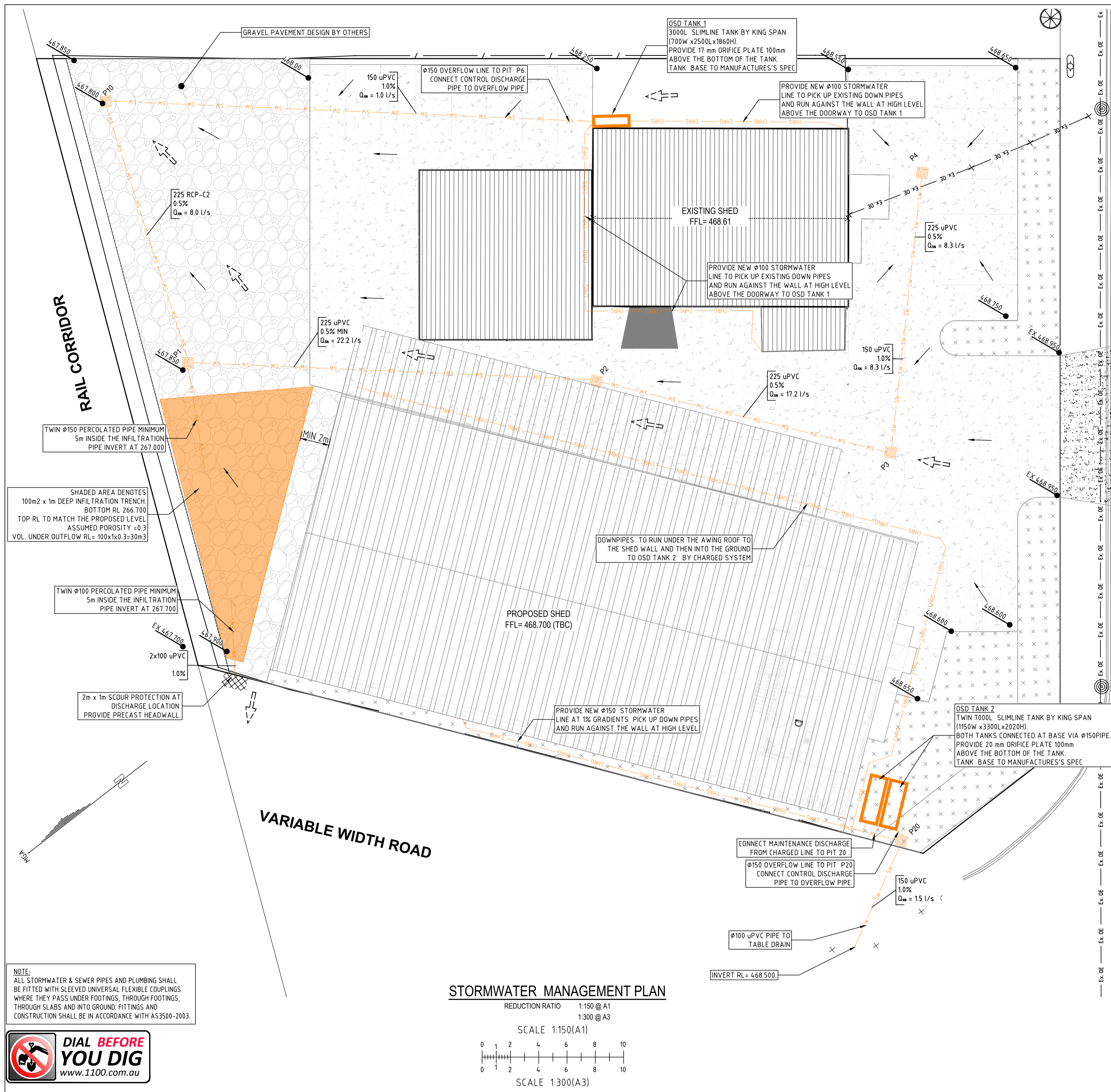
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Client: HOT ENGINEERING  
 Project: PROPOSED DEVELOPMENT ON LOT 1 IN DP 262948 10 INDUSTRIAL AVENUE, MUDGEE, 2850  
 Drawing Title: PROPOSED SITE PLAN

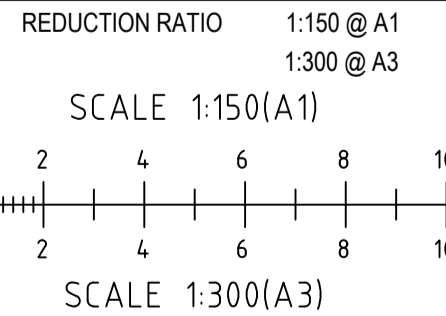
Rev	Date	Amendment
A	05/07/21	ISSUED FOR APPROVAL
B	23/08/2021	INFILTRATION TRENCH ADDED

Design	ST	Certification	
Drawn	MK		
Check	LM	Drawing Number	
Original Sheet Size = A1		36881 - C02	Revision B





**STORMWATER MANAGEMENT PLAN**



**LEGEND**

- EXISTING SUBJECT CADASTRAL BOUNDARIES
- EXISTING ADJOINING CADASTRAL BOUNDARIES
- - - - - EXISTING EASEMENT
- ⊙ EXISTING SEWER MANHOLE
- Ex. OE - Ex. OE - EXISTING OVERHEAD POWER LINE
- / — EXISTING FENCE
- ▒ EXISTING CONCRETE PAVEMENT/SLAB TO REMAIN
- ▒ EXISTING ROOF AREA

**LEGEND (proposed)**

- EXTENT OF PROPOSED ROOF
- PROPOSED UNDERGROUND STORMWATER PIPE
- CHARGED ROOF DRAINAGE LIEN
- PROPOSED GRASSED/LANDSCAPED AREA
- PROPOSED GRAVELED PAVEMENT
- PROPOSED CONCRETE PAVEMENT.
- PROPOSED GRATED STORMWATER PIT(GPT PIT)
- 150 uPVC 1.0% GRADIENT 5% AEP FLOW
- PROPOSED SURFACE FALL DIRECTION
- PROPOSED/EXISTING GROUND LEVEL
- SURFACE FALL DIRECTION

**STORMWATER ANALYSIS**  
 DESIGN CALCULATIONS AS PER AS3500.3-2018

**A) PRE-DEVELOPED:**

- TOTAL APPLICABLE CATCHMENT AREA (A) = 3,290 m<sup>2</sup>
- RAINFALL INTENSITY (I<sub>r</sub>) = 146 mm/hr (5min- 5% AEP)
- Cr = RUNOFF COEFFICIENT FOR ROOFED AREA = 1.0
- Ar = TOTAL ROOFED AREA = 390 m<sup>2</sup>
- Ci = RUNOFF COEFFICIENT FOR UNROOFED IMPERVIOUS AREA = 0.9
- Ai = TOTAL UNROOFED IMPERVIOUS AREA = 22 m<sup>2</sup>
- Cg = RUNOFF COEFFICIENT FOR GRAVELED AREA = 0.5
- Ag = TOTAL GRAVELED AREA = 515 m<sup>2</sup>
- Cp = RUNOFF COEFFICIENT FOR PERVIOUS AREA = 0.3
- Ap = TOTAL PERVIOUS GRASS AREA = 2,363m<sup>2</sup>
- TOTAL FLOW Q<sub>PRE</sub> = (Cr Ar + Ci Ai + Cp Ap + Cg Ag) . I<sub>r</sub> / 3600 = 55.81 l/s

**B) POST-DEVELOPED:**

- TOTAL APPLICABLE CATCHMENT AREA (A) = 3,290 m<sup>2</sup>
- RAINFALL INTENSITY (I<sub>r</sub>) = 1146 mm/hr (5min- 5% AEP)
- Cr = RUNOFF COEFFICIENT FOR ROOFED AREA = 1.0
- Ar = TOTAL ROOFED AREA = 1,266 m<sup>2</sup>
- Ci = RUNOFF COEFFICIENT FOR UNROOFED IMPERVIOUS AREA = 0.9
- Ai = TOTAL UNROOFED IMPERVIOUS AREA = 1,014 m<sup>2</sup>
- Cp = RUNOFF COEFFICIENT FOR PERVIOUS AREA = 0.3
- Ap = TOTAL PERVIOUS AREA = 520 m<sup>2</sup>
- Cg = RUNOFF COEFFICIENT FOR GRAVELED AREA = 0.5
- Ag = TOTAL GRAVELED AREA = 490 m<sup>2</sup>
- TOTAL FLOW Q<sub>POST</sub> = (Cr Ar + Ci Ai + Cp Ap + Cg Ag) . I<sub>r</sub> / 3600 = 104.61 l/s

**C) OSD CALCULATION**

- REQUIRED OSD VOLUME = (104.61-55.81) x 5 x 60/1000 = 14.6 CUM
- OSD PROVIDED = 17 CUM ( OSD TANK 1: 3KL; OSD TANK 2 : 14KL)

**D) OSD TANK 1 CALCULATION**

- TOTAL FLOW TO TANK = 9.98 l/s
- CONTROL DISCHARGE FROM TANK 1= 1 l/s
- REQUIRED VOLUME = (9.98- 1) x 5 x 60/1000 = 2.67 CUM
- AVAILABLE VOLUME IS 3 CUM

**E) OSD TANK 2 CALCULATION**

- TOTAL FLOW TO TANK = 41.4 l/s
- CONTROL DISCHARGE FROM TANK 1= 1.4 l/s
- REQUIRED VOLUME = (41.4- 1.4) x 5 x 60/1000 = 12 CUM
- AVAILABLE VOLUME IS 14 CUM

STORMWATER PIT SCHEDULE						
PIT No.	TOP R.L.	DEPTH (mm)	IL INLET	IL OUTLET	LxB	LID TYPE
P10	467.800	700	-	467.100	600x600	HD GRATED- BCP CLEAN PIT
P1	467.850	850	467.000	467.000	600x600	HD GRATED - BCP CLEAN PIT
P2	468.400	550	467.850	467.850	600x600	HD GRATED - BCP CLEAN PIT
P3	468.500	550	467.950	467.950	600x600	HD GRATED - BCP CLEAN PIT
P4	468.450	400	-	468.050	600x600	HD GRATED - BCP CLEAN PIT
P20	468.750	250	468.500	468.600	600x600	HD GRATED



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 Project: **PROPOSED DEVELOPMENT ON LOT 1 IN DP 262948 10 INDUSTRIAL AVENUE, MUDGEE, 2850**  
 Drawing Title: **STORMWATER MANAGEMENT PLAN**




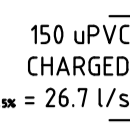


Rev	Date	Amendment	Design	ST	Certification
A	05/07/21	ISSUED FOR APPROVAL	Drawn	MK	
B	23/08/2021	INFILTRATION TRENCH ADDED	Check	LM	Drawing Number
			Original Sheet Size = A1		<b>36881 - C10</b>

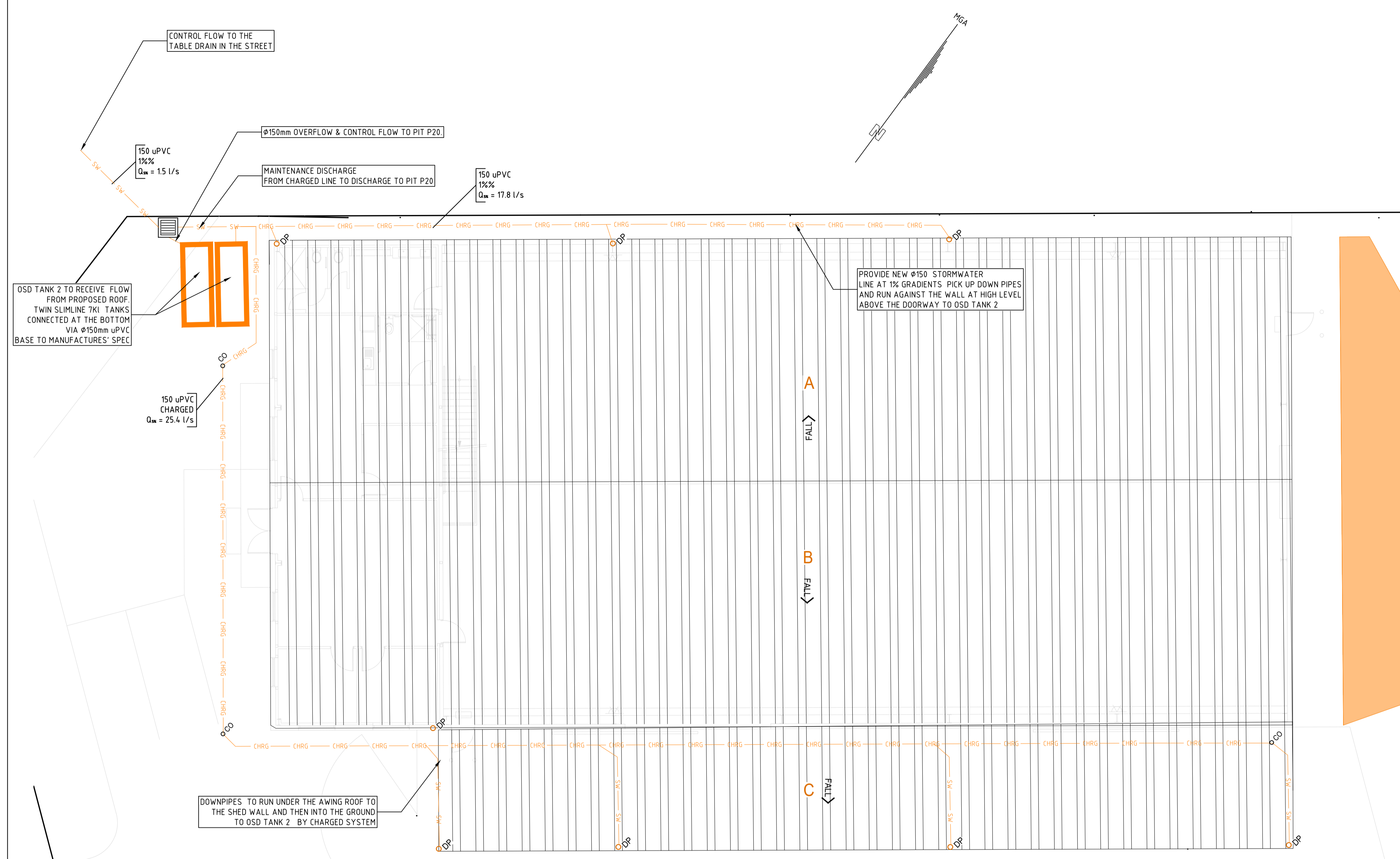
Revision **B**

**SUBMISSION FOR CC**

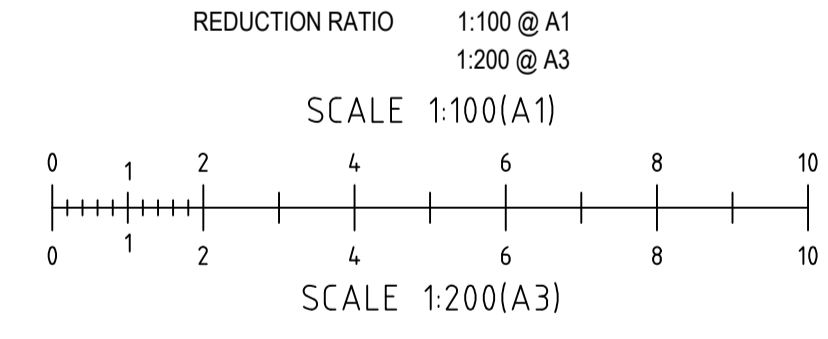


**LEGEND (Continued)**

-  PROPOSED DOWN PIPE, SIZE AS SPECIFIED
-  ROOF - CATCHMENT IDENTIFIER
-  ROOF - DIRECTION OF FALL
-  PROPOSED PIPE SIZE & MATERIAL  
150 uPVC CHARGED PIPE  
Q<sub>max</sub> = 26.7 l/s  
5% AEP FLOW
-  STORM PIT.
-  PROPOSED CLEAROUT PIPE, REFER DETAIL



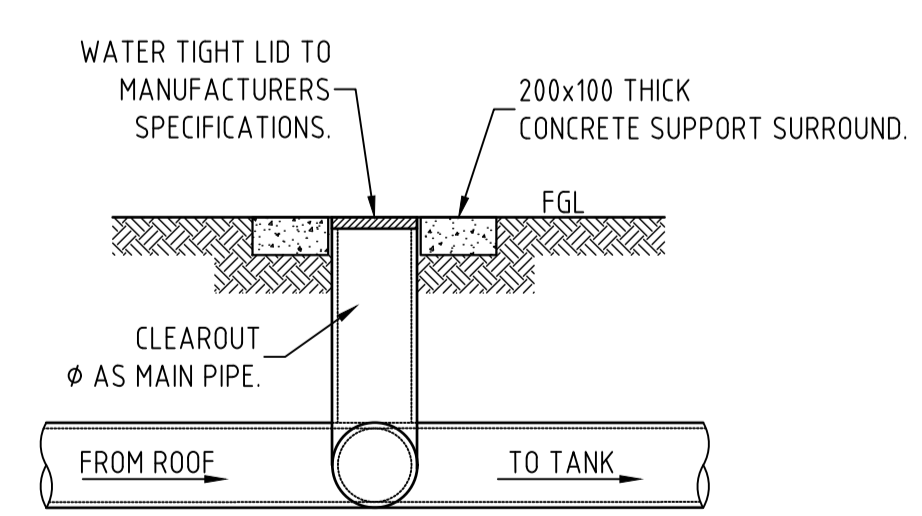
**ROOF DRAINAGE PLAN**



**STORMWATER ANALYSIS**

- DESIGN CALCULATIONS AS PER AS3500.3-2018
- EAVES GUTTERS DESIGNED FOR ARI: 1:20 YEAR STORM, 5 MINUTE INTENSITY. GUTTERS TO BE INSTALLED AT FALL 1:500 OR STEEPER. EAVE GUTTERS: GUTTER TO HAVE EQUIVALENT CROSS SECTIONAL AREA AS SPECIFIED

CATCHMENT, GUTTERS, & DOWNPIPES					
LOCATION	AREA (m <sup>2</sup> )	FLOW l/s	GUTTER (mm <sup>2</sup> )	DP's	MAX m <sup>2</sup> /DP
SHED (A)	420	25.4	18,300	3xØ150	165
SHED (B) & AWNING (C)	600	17.8	18,300	4xØ150	165



**CLEAROUT (CO) DETAIL**  
SCALE = 1:20



DESIGN NOTE:  
5% AEP STORM  
DURATION = 5 MIN.  
RAINFALL INTENSITY = 146mm/hr

**NOTE:**  
ALL STORMWATER & SEWER PIPES AND PLUMBING SHALL BE FITTED WITH SLEEVED UNIVERSAL FLEXIBLE COUPLINGS WHERE THEY PASS UNDER FOOTINGS, THROUGH FOOTINGS, THROUGH SLABS AND INTO GROUND. FITTINGS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS3500-2018.

**SUBMISSION FOR CC**



**SITWORKS NOTES**

- ORIGIN OF LEVELS :- AHD
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
- ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATIONS AND THE DIRECTIONS OF THE SUPERINTENDENT.
- EXISTING SERVICES HAVE BEEN OBTAINED FROM SURFACE INSPECTION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- WHERE NEW WORKS ABOUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A QUALIFIED SURVEYOR.
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER TELECOM OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- ON COMPLETION OF CONSTRUCTION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS.
- MAKE SMOOTH TRANSITION TO EXISTING AREAS.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DIVERSION DRAINS AND MOUNDS TO ENSURE THAT AT ALL TIMES EXPOSED SURFACES ARE FREE DRAINING AND WHERE NECESSARY EXCAVATE SUMPS AND PROVIDE PUMPING EQUIPMENT TO DRAIN EXPOSED AREAS. ALL WORK TO BE UNDERTAKEN WITH ADHERENCE TO THE REQUIREMENTS OF THE SOIL AND WATER MANAGEMENT PLAN.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS.

**PIPE TRENCH - FILL NOTES:**

- BEDDING SAND**  
BEDDING SAND SHALL BE GRANULAR MATERIAL HAVING A LOW PERMEABILITY AND HIGH STABILITY WHEN SATURATED, CONFORMING TO THE GRADING LIMITS FOR BEDDING SAND AS INDICATED IN THE CONTRACT DOCUMENTS. BEDDING SAND SHALL BE COMPACTED TO A DENSITY INDEX OF 95% AS DETERMINED IN ACCORDANCE WITH AS1289.
- APPROVED IMPORTED GRANULAR FILL**  
ONLY IMPORTED GRANULAR FILL MATERIAL APPROVED BY THE SUPERINTENDENT SHALL BE USED. THIS FILL MATERIAL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 300mm THICK TO A DRY DENSITY OF 100% OF THE STANDARD MAXIMUM DRY DENSITY OF THE MATERIAL AND WITH A MOISTURE CONTENT NO MORE THAN 1% ABOVE OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH AS1289.
- ORDINARY EXCAVATED FILL MATERIAL**  
ORDINARY EXCAVATED FILL MATERIAL IS EXCAVATED TRENCH MATERIAL THAT IS FREE OF VEGETABLE MATTER, HUMUS, LARGE CLAY LUMPS AND ROCK BOULDERS. THIS FILL MATERIAL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 300mm THICK, TO A DENSITY OF 95% OF THE STANDARD MAXIMUM DRY DENSITY OF THE MATERIAL WITH A MOISTURE CONTENT OF NOT MORE THAN 1% ABOVE THE OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH AS1289.

**SCOUR PROTECTION NOTES**

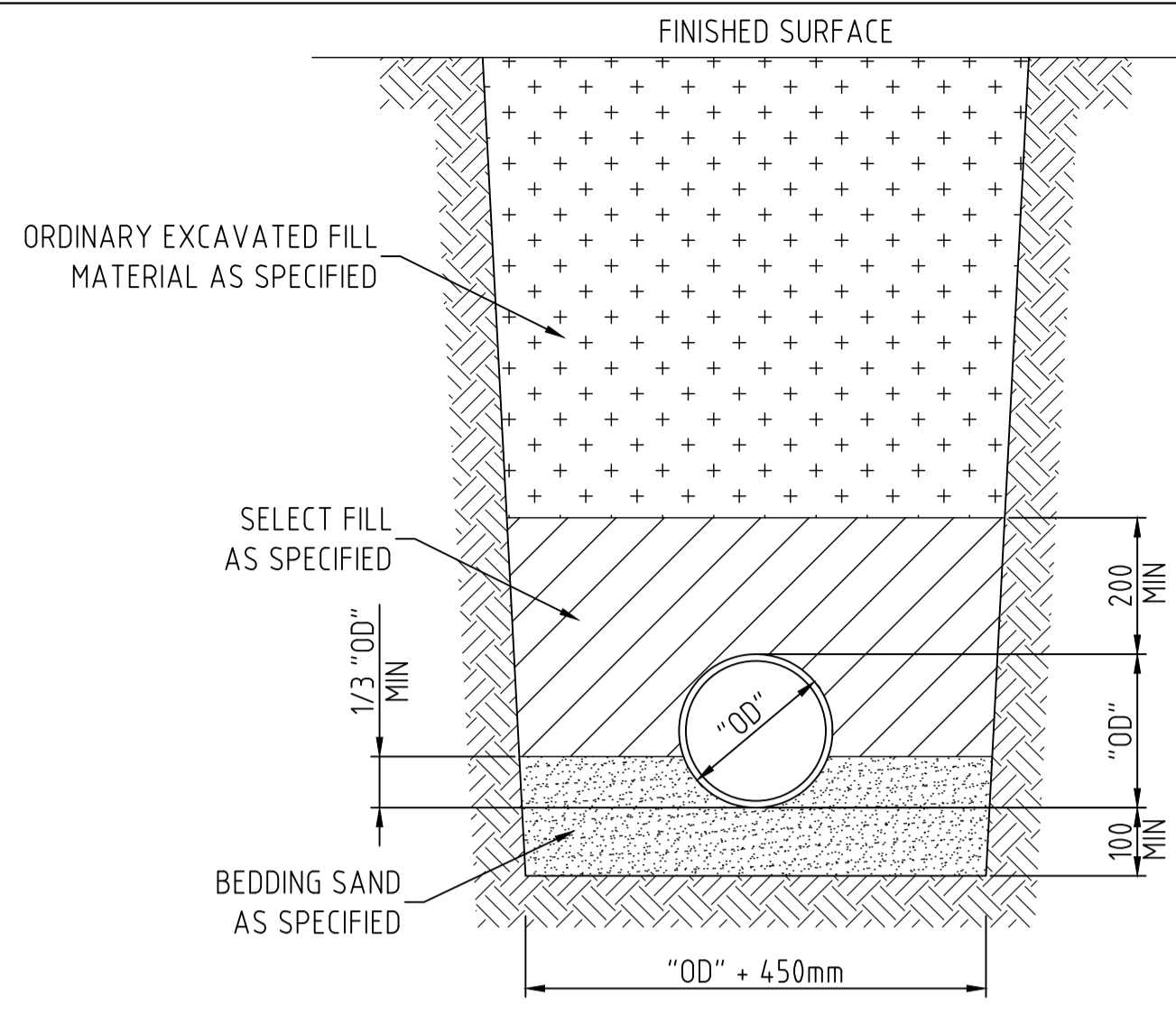
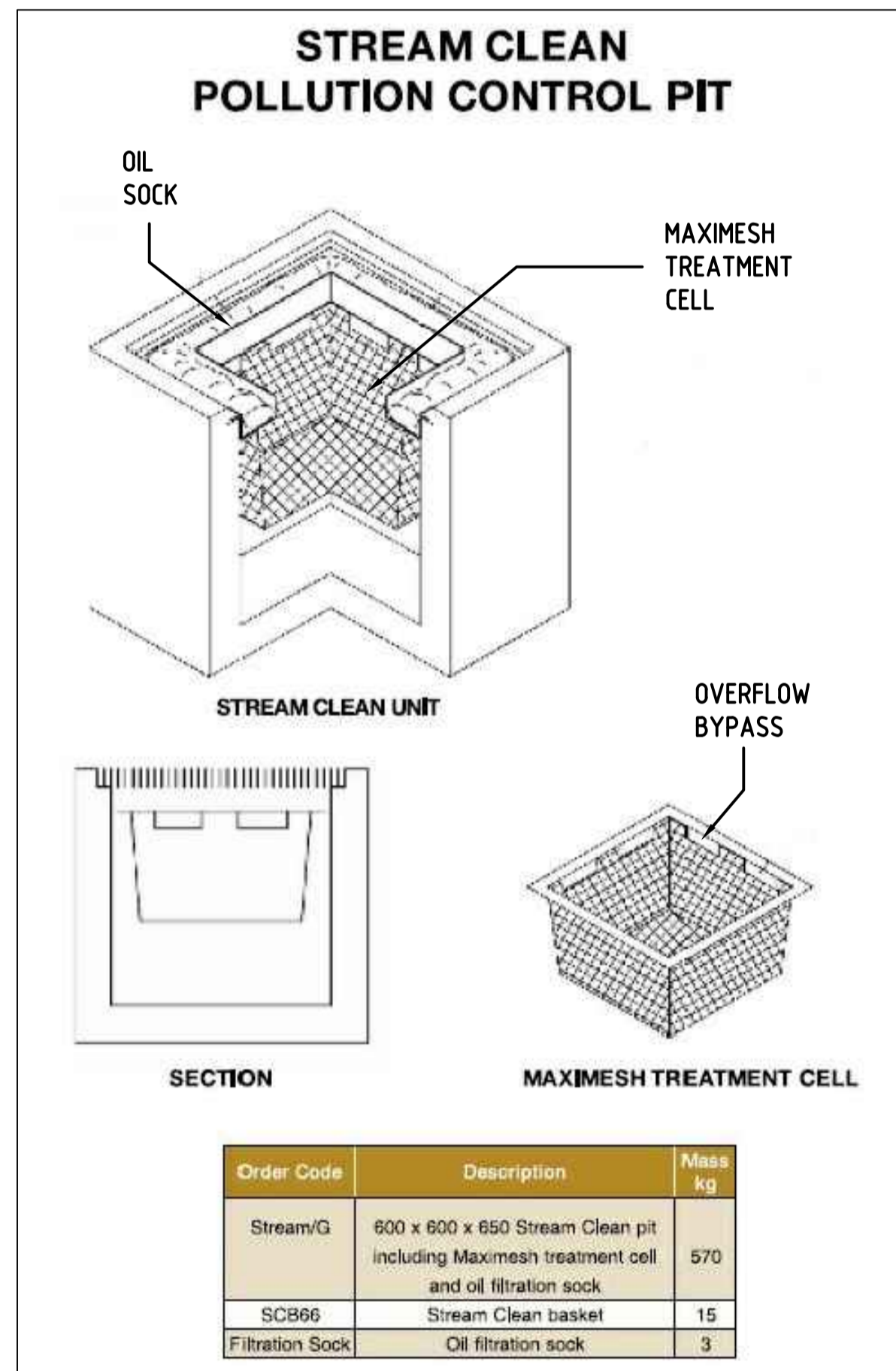
- SCOUR PROTECTION IS TO BE PROVIDED AS A 3000mm WIDE DISTRIBUTION x 300mm DEEP D<sub>50</sub> 100mm RIP RAP PLACED ON A SINGLE LAYER OF GEOTEXTILE (BIDIM A34 OR EQUIVALENT)
- GRADING TO BE AS PER TABLE BELOW

EQUIVALENT SPHERICAL DIAMETER ##	PERCENT (BY WEIGHT) OF RIP RAP OF SMALLER SIZE
1.5 - 2.0 TIMES D <sub>50</sub> ++	100%
D <sub>50</sub>	50%
0.3 D <sub>50</sub>	10 - 20%

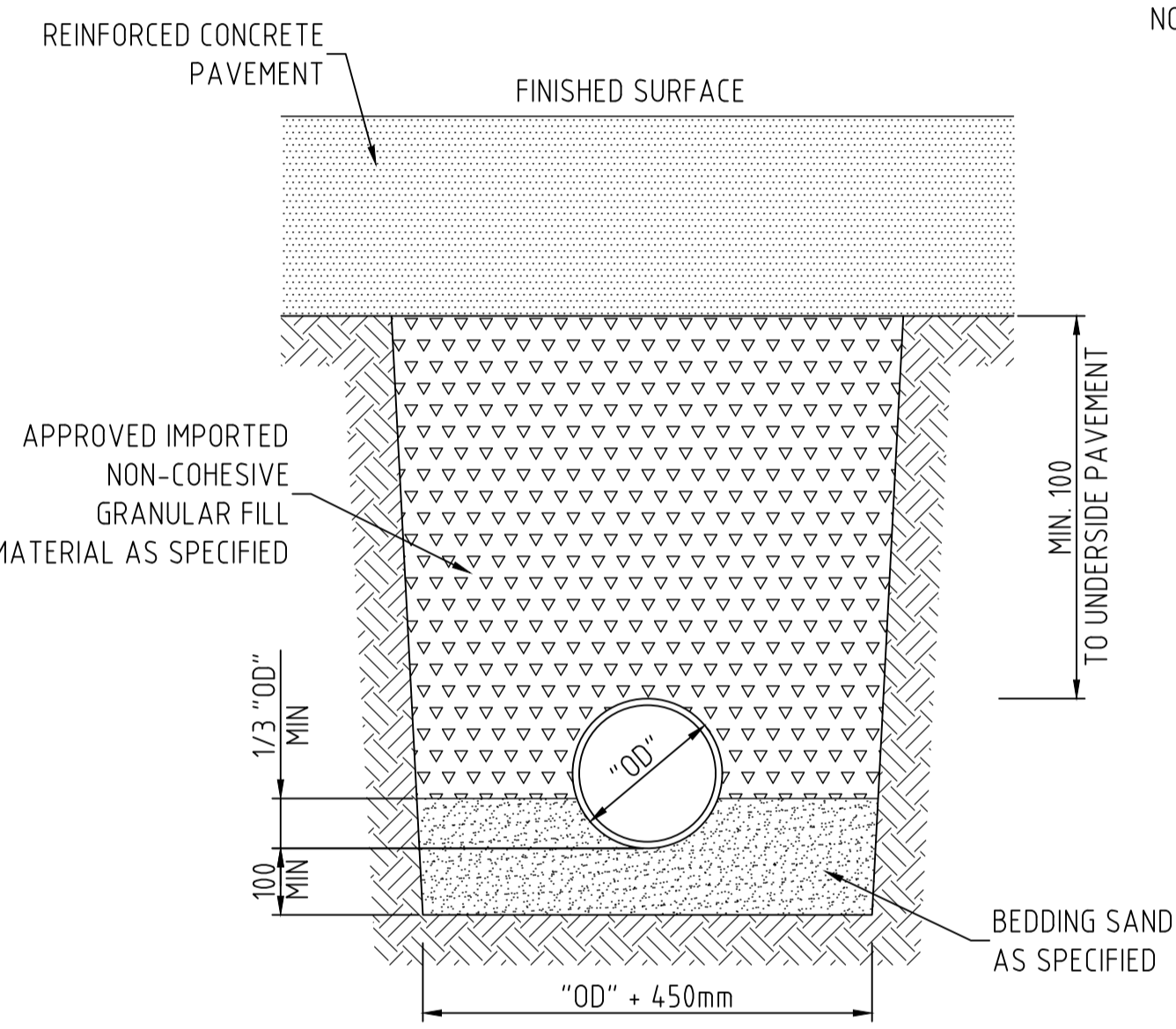
## THE DIAMETER OF A SPHERE WITH AN EQUIVALENT VOLUME TO THE INDIVIDUAL ROCK.  
++ D<sub>50</sub> IS THE MEDIAN RIP RAP DIAMETER OF THE ROCK MIX. (i.e. 50% (BY WEIGHT) IS SMALLER AND 50% (BY WEIGHT) IS LARGER).

**STORMWATER NOTES**

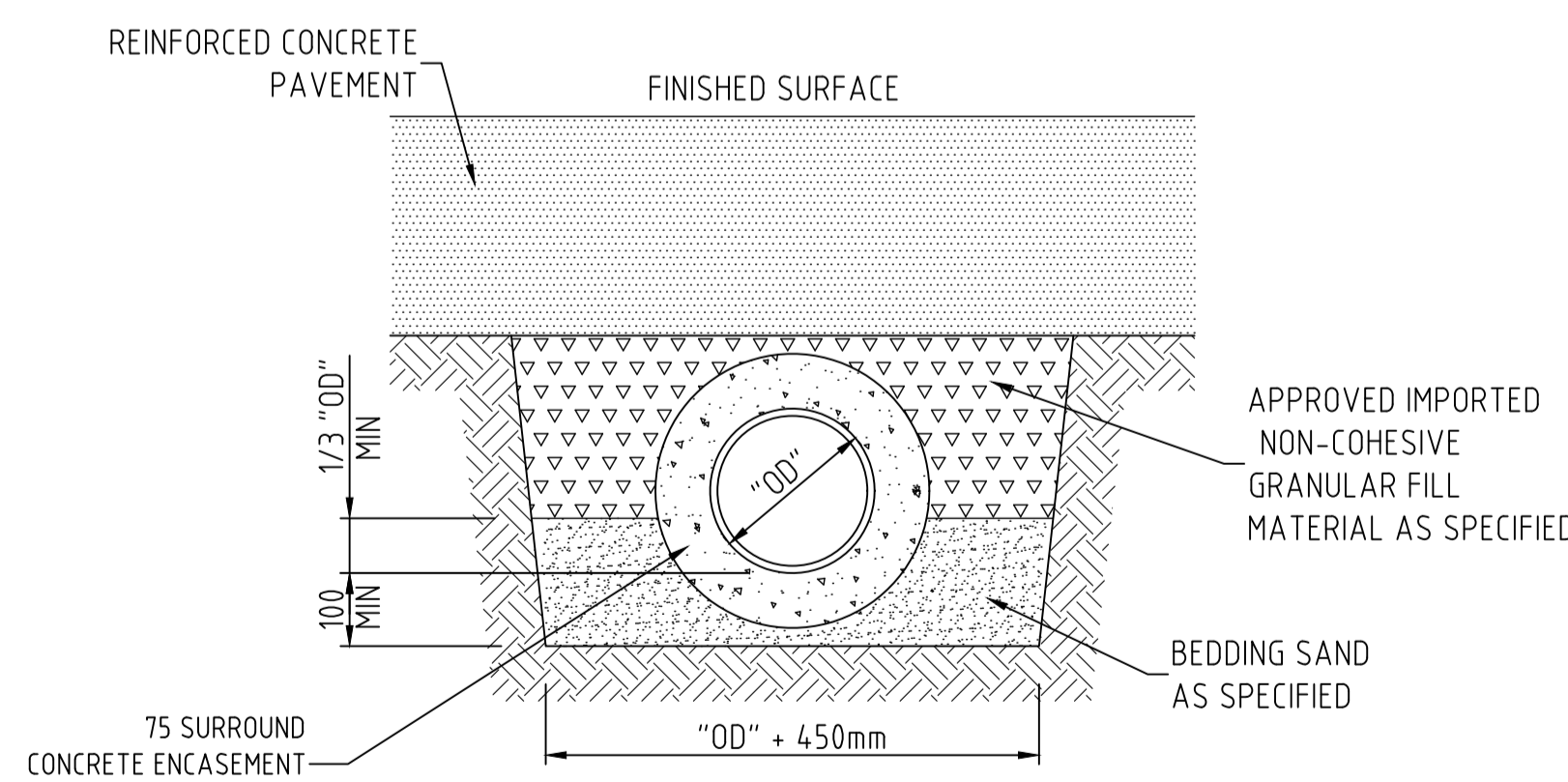
- ALL DOWNPIPE LINES SHALL BE SEWER GRADE uPVC WITH SOLVENT WELD JOINTS (U.N.O)
- EQUIVALENT STRENGTH VCP OR FCP PIPES MAY BE USED.
- MINIMUM GRADE TO STORMWATER LINES TO BE 0.5% MINIMUM (U.N.O)
- CONTRACTORS TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
- ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
- APPROVED PRECAST PITS MAY BE USED.
- WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50mm CONCRETE BED (75mm THICK BED OF 12mm BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR THE ROCK. IN OTHER THAN ROCK, PIPES SHALL BE LAID ON A 75mm THICK SAND BED. IN ALL CASES, BACKFILL THE TRENCH WITH THE SAND TO 200mm ABOVE THE PIPE. WHERE THE PIPE IS UNDER PAVEMENTS, BACKFILL REMAINDER OF TRENCH WITH SAND OR APPROVED GRANULAR BACKFILL COMPACTED IN 150mm LAYERS TO 98% MAX. DRY DENSITY.
- WHERE STORMWATER LINES PASS UNDER FLOOR SLABS, SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.
- ALL PIPES IN THE ROADWAY AND FOOTPATH AREAS, WHERE THE DEPTH OF PIPE IS LESS THAN 500mm FROM THE FINISHED SURFACE LEVEL ARE TO BE CONCRETE ENCASED.



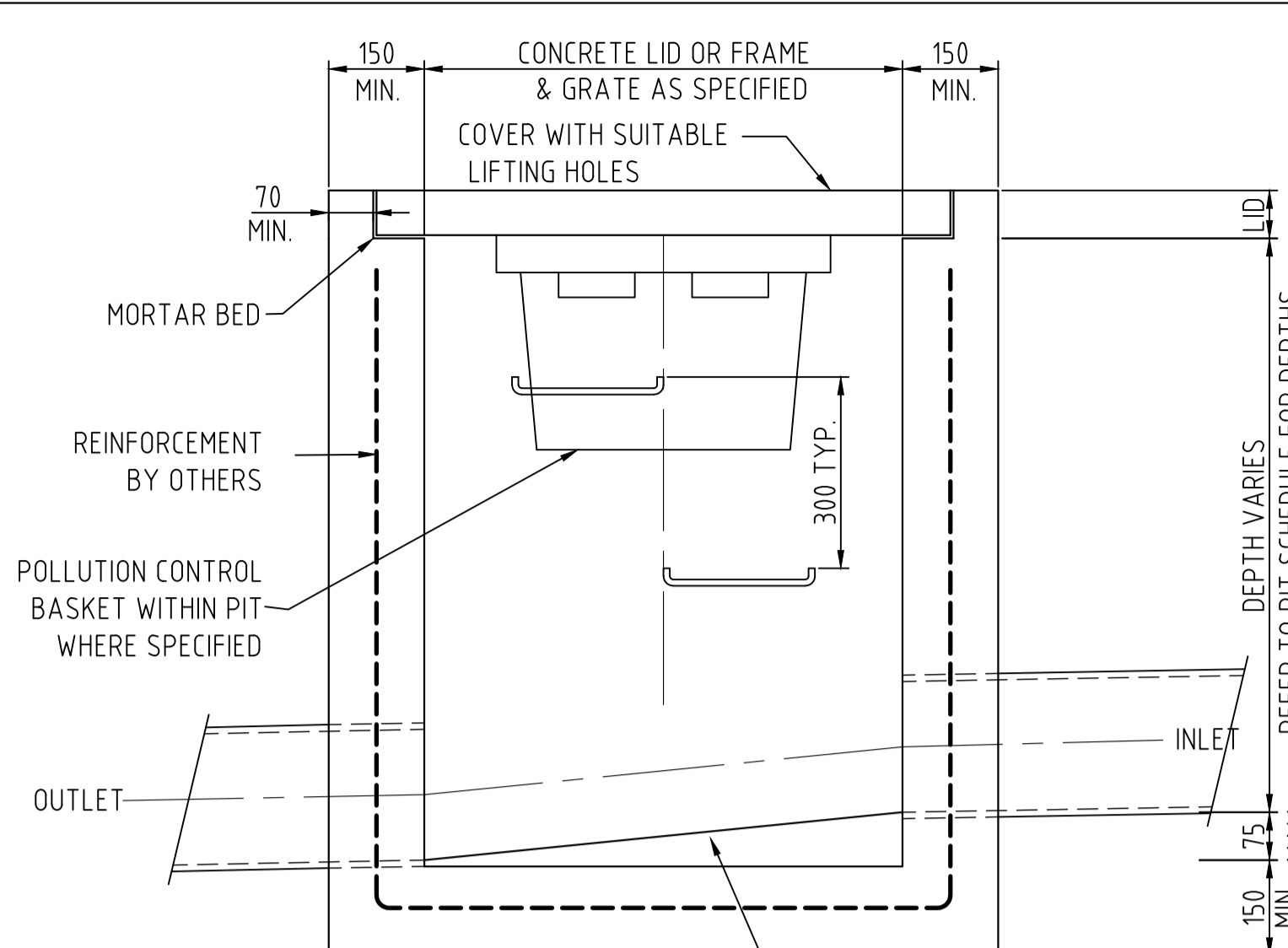
**PIPE TRENCH - EARTH FOUNDATION**  
SCALE 1:10  
NOTE: PIPE COLLAR IS NOT TO REST ON ORIGINAL MATERIAL



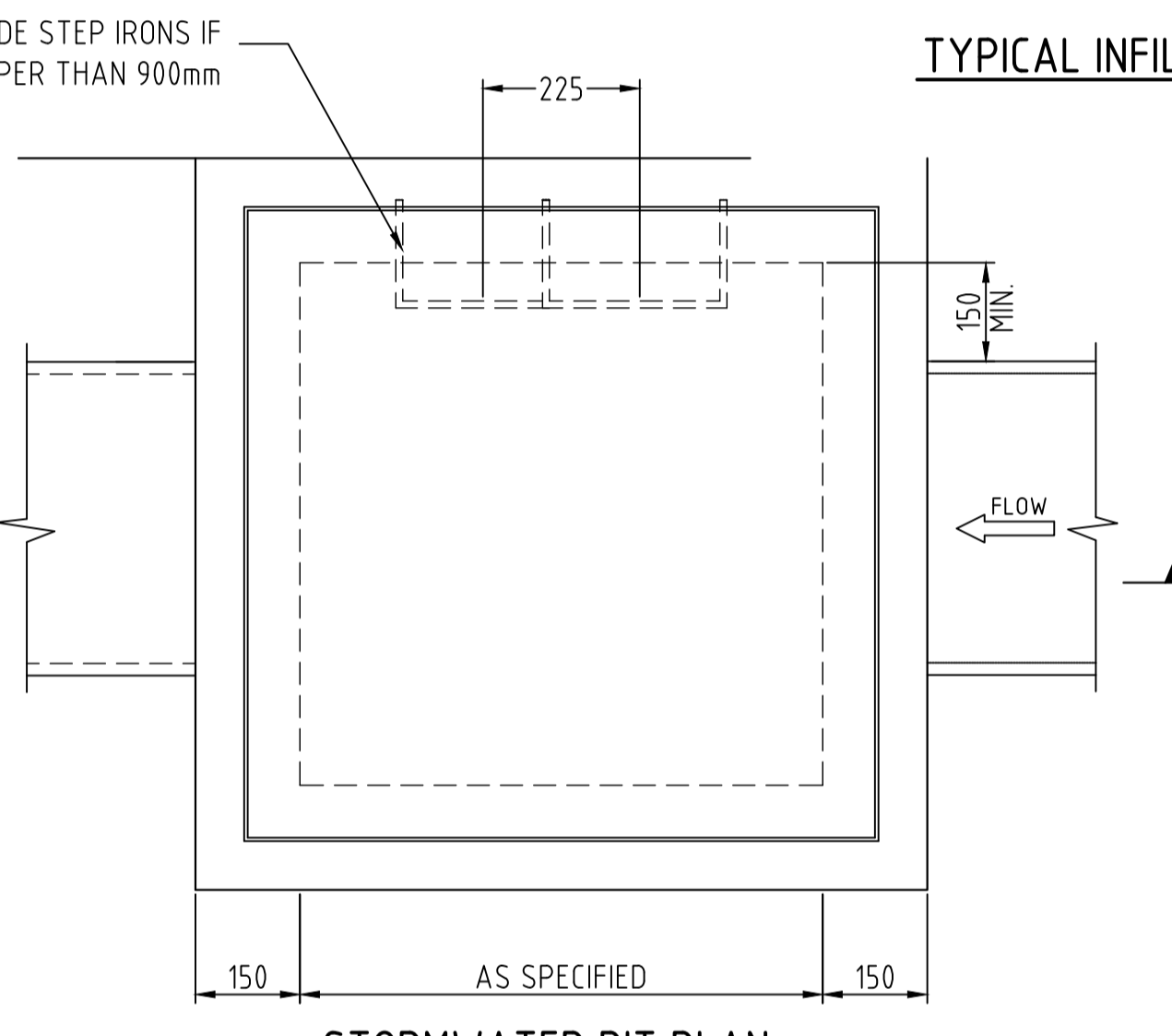
**PIPE TRENCH - PAVEMENT**  
SCALE 1:10  
NOTE: PIPE COLLAR IS NOT TO REST ON ORIGINAL MATERIAL



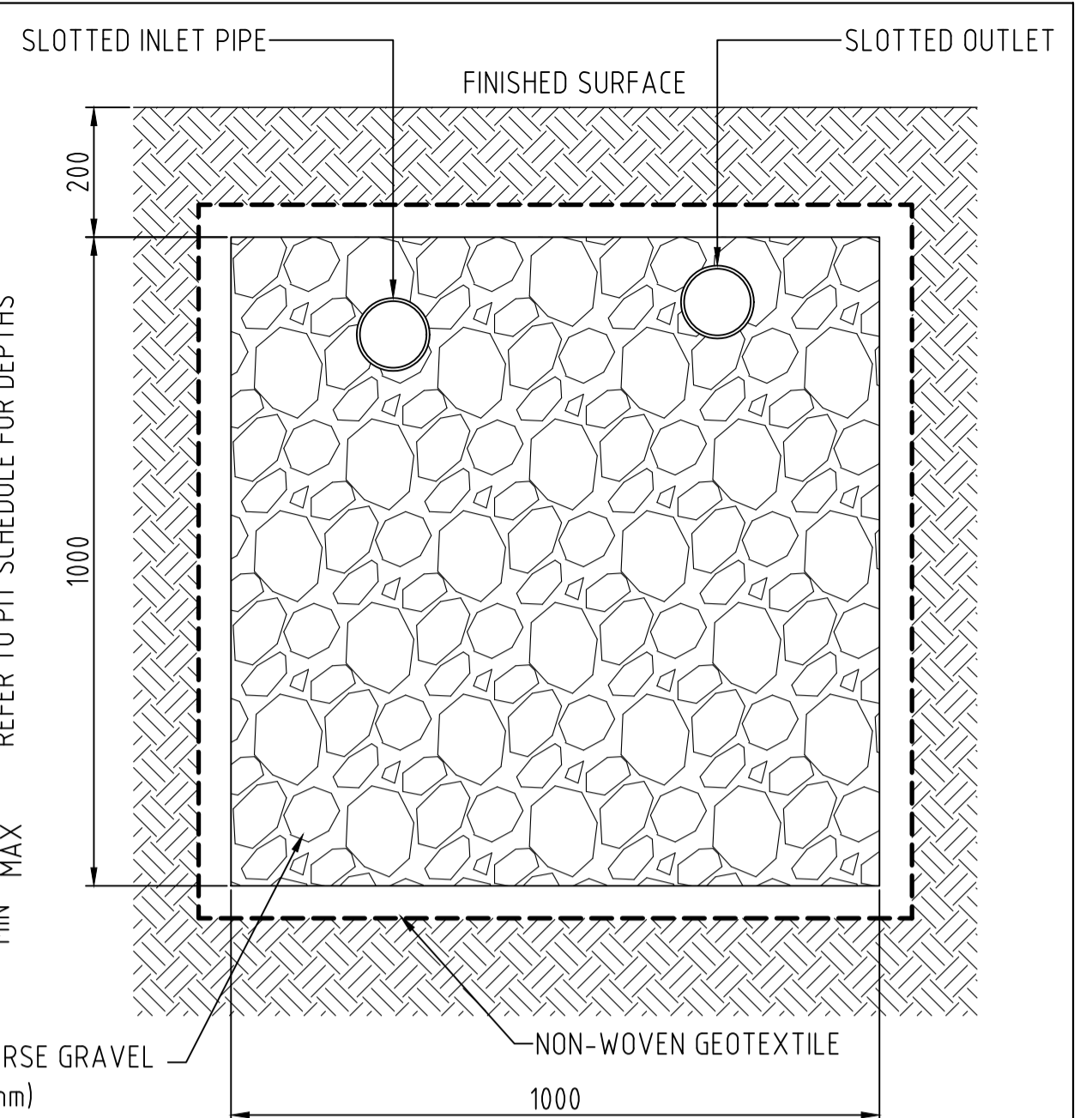
**CONCRETE ENCASED PIPE TRENCH - ROADWAY**  
SCALE 1:10  
ALL uPVC PIPES TO HAVE MIN. 100mm COVER TO UNDERSIDE REINFORCED CONCRETE PAVEMENT IN TRAFFICABLE AREAS. IF THIS CANNOT BE ACHIEVED PIPES TO BE CONCRETE ENCASED



**SECTION A**  
SCALE 1:10  
NOTE: EQUIVALENT PRECAST/PLASTIC PIT CAN BE USED



**STORMWATER PIT PLAN**  
SCALE 1:10



**TYPICAL INFILTRATION TRENCH CROSS SECTION**  
SCALE = 1:10

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Client: **HOT ENGINEERING**  
Project: **PROPOSED DEVELOPMENT ON LOT 1 IN DP 262948 10 INDUSTRIAL AVENUE, MUDGEE, 2850**  
Drawing Title: **STORMWATER TYPICAL DETAILS AND NOTES**

Rev Date Amendment  
A 05/07/21 ISSUED FOR APPROVAL  
B 23/08/2021 INFILTRATION TRENCH DETAILS ADDED

Design **ST** Certification  
Drawn **MK**  
Check **LM** Drawing Number  
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