

- Stripping and stockpiling of topsoil
- Formation and compaction of Open flow channels
 Supply and installation of RCPs and Precast Pits
 Supply and installation of Core filled blocks and concrete apron to pit 1
 Supply and installation of custom built field inlet grate to pit 1
- Make good to pavers in Molesworth Street

Survey control to be provided by TSC

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Earthworks EW 1 **Topsoil**

grass and mulch material from clearing and from sub-soil. Topsoil shall be the surface or top layer of soil including fine roots which is characterised by a clearly Strip area to be occupied by the works of all topsoil by grubbing to a depth of at least 100 mm below natural surface or foundation level, whichever is the lower. Stockpile topsoil separately from the

Do not mix sub-soil with topsoil to be re-spread. visible percentage of humus material

EW 2 Stockpile all topsoil from stripping operations on site. Establish stockpiles in heights not greater than 2 m. Provide adequate watering, drainage and aeration. Do not allow traffic on stockpiles.

EW3 COMPACTION REQUIREMENTS

Use selected excavated material or imported material, free from debris, roots, lumber and other debris as fill material. Place fill in near horizontal layers not exceeding 200 mm in loose thickness. Limit maximum particle size to two-thirds of compacted layer thickness.

Compaction moisture content shall be 1% dry to 2% wet of the optimum. Lightly scarify top of each compacted layer to a depth of 25mm before placing next layer of fill for

At the cessation of fill placement for the day, roll flat the surface to protect the work. Prior to resumption of fill placement, scarify the surface as specified above and adjust the moisture content to

Compact the soils to the following minimum standard dry density ratios (AS 1289.5.4.1) for cohesive materials and density indexes (AS 1289.E6.1) for cohesionless soil:

Levels or grades shall generally be as indicated on the submitted drawings. Where levels or grades are not indicated on the submitted drawings, the minimum cover as specified in the paragraph following shall deemed to apply to all buried pipelines. Additional Excavation

Unattended excavations

imited to -

(ii) installation of trench covers or (i) safety and stockproof fencing or

(iii) temporary backfilling of all excavations, irrespective of excavation depth

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600.

2

- 2 NECESSARILY SHOWN IN TRUE PROJECTION. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT
- MINIMUM COVER (mm) TO ALL REINFORCEMENT EXCEPT F41 MESH UNLESS OTHERWISE SHOWN SHALL BE AS FOLLOWS:

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I) CONCRETE CLASS SLAB ON GROUND

- MINIMUM 25 MPA AT 28 DAYS

- 20 NOMINAL MAXIMUM AGGREGATE SIZE - 80 MAXIMUM SLUMP +/-10MM

STRUCTURAL STEEL

- 3 WITH AS 4100 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE
- WELDING SHALL BE PERFORMED BY AN EXPERIENCED OPERATOR IN ACCORDANCE WITH AS 1554.

SS

Where extra excavation is required below the design depth in order to obtain a firm foundation, refill the portion so excavated in layers up to the design depth specified with non-cohesive material compacted to 95% Density Index in accordance with AS 1289.E6.1.

and maintain at all unattended excavations safety protection measures including but be not

REINFORCED MASONRY

S4

CAMBER TO BE AS NO

TED ON THE DRAWINGS.

WELD UNLESS OTHER

EXCEPT WHERE OTHERWISE SHOWN WELDS TO BE 6mm CONTINUOUS FILLET.

- ALL CONCRETE MASONRY UNITS SHALL CONFORM TO THE REQUIREMENTS OF AS4456.4 & 10, F'UC= 15 MPA. MORTAR SHALL COMFORM TO THE REQUIREMENTS OF AS3700. GROUT SHALL BE CONCRETE WITH CHARACTERISTIC STRENGTH AT 28 DAYS (F'C) OF 20 MPA AND A SLUMP OF 250 MM WITH A POURABLE CONSISTENCY. MAXIMUM AGGREGATE SIZE SHALL
- <u>M2</u> ACCURATELY POSITION VERTICAL REINFORCEMENT TO PROVIDE THE COVER INDICATED ON THE DRAWINGS, OTHERWISE THERE SHALL BE A MINIMUM OF 5 MM COVER OF GROUT AROUND ALL REINFORCEMENT. SECURE VERTICAL BARS IN POSITION PRIOR BE 6 MM
- BLOCKWORK SHALL CURE AT LEAST THREE DAYS TO GAIN STRENGTH BEFORE POURING GROUT.

<u>M6</u>

M3.

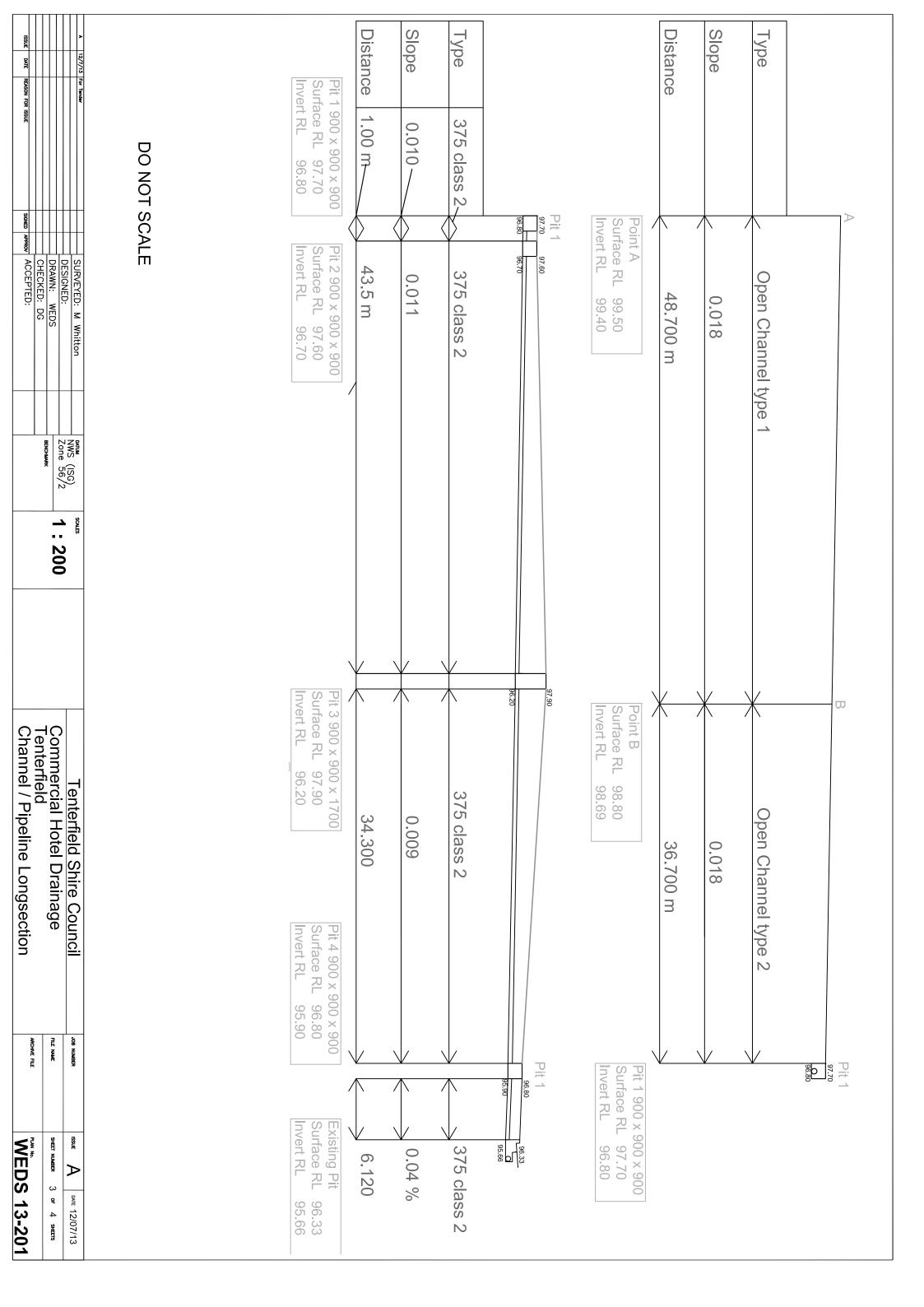
TO PLACING CONCRETE

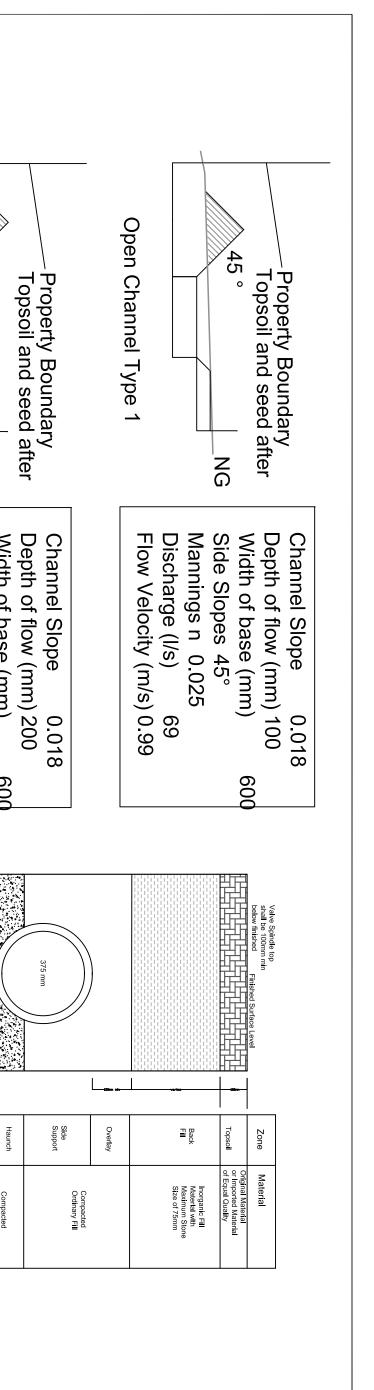
GROUT SHALL BE PLACED BY PUMPING OR BY ANOTHER APPROVED METHOD AND SHALL BE PLACED BEFORE ANY INITIAL SET OCCURS AND IN NO CASE MORE THAN 1-1/2 HOURS AFTER WATER IS ADDED.

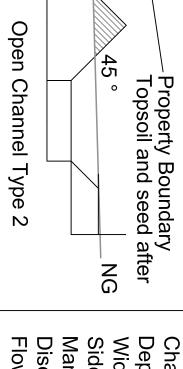
PRECAST PITS AND PIPELINES

INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

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SHEET NUMBER 1 OF 4 SHEETS	FILE NAME	Commercial Hotel Drainage	- 000	DENCHMARK	DRAWN: WEDS			
			4 - 800	Zone 56/2	DESIGNED:			
ISSUE Δ DATE $12/07/13$	JOB NUMBER	Tenterfield Shire Council	SCALES	DATUM (ICC)	SURVEYED: M Whitton		12/7/13 For Tender	>







Flow Velocity (m/s) 1.43 Width of base (mm) Mannings n 0.025 Discharge (I/s) Side Slopes 45° 600

concrete apron 100 thick	======================================	Humes 900 x 1	concrete apron 100 thick	200 series core filled blocks
V	a positivo	Humes precast 900 x 900 x 900 stormwater pit or similiar		
		======================================	======================================	concrete apron 100 thick concrete apron 100

Pit 4 Pit 3 Pit 2 Pit 1

900 900 900

900 900 900

900

Lid with grate

1700

solid

N12 @ 800 ctrs tie to fabric 200 series core filled blocks

40 x 40 RHS duragal frame with 100 x 50 galvanised mesh welded to top

1 x 10mm x 65mm dynabolt per leg

Number

Length

Width ∦eight

Lid type

Typical Arrangem

Stormwater Pipeline Trench & Backfill

Bed

Non Vehiclar Loading

Trench & Backfil

900

900

custom

900 900

Lid with grate

DO NOT SCALE

375 RCP to Pit 2

Humes precast 900 x 900 x 900 stormwater pit or similiar

PIT 1 SECTION

WED		Details			SIGNED APPROV ACCEPTED:	ISSUE DATE REASON FOR ISSUE
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			4 - 300 4 - 300	Zone 56/2	DESIGNED:	
ISSUE $lacksquare$	JOB NUMBER	Tenterfield Shire Council	SCALES	NIMS (ISC)	SURVEYED: M Whitton	12/7/13 For Tender

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3 of 4 SHEETS DATE 12/07/13

