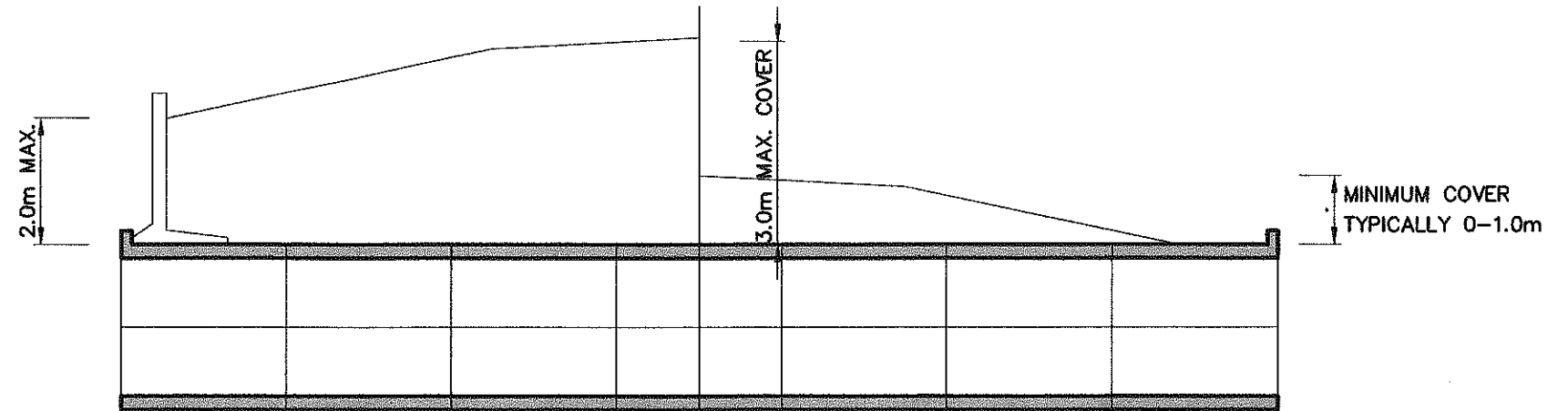
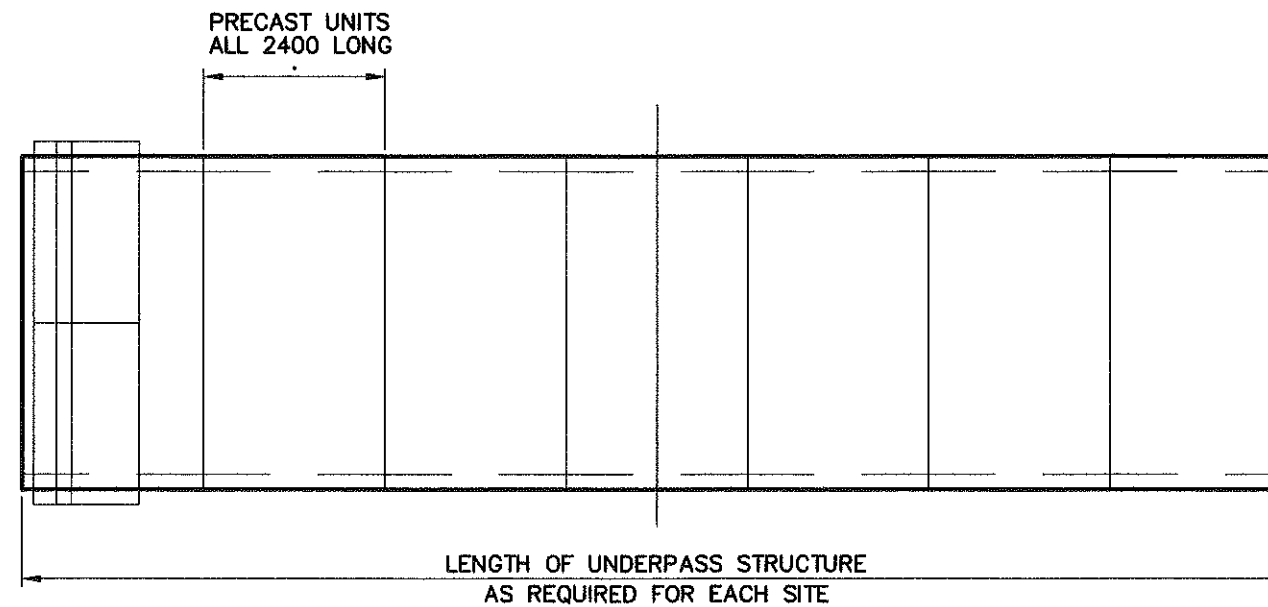


SPECIFICATION

1. THESE PLANS SHOW WORK FOR A GENERIC STOCK UNDERPASS STRUCTURE CONSTRUCTED AT A TYPICAL ROAD CROSSING SITE HAVING ADEQUATE SUBGRADE BEARING CAPACITY AND STABILITY. REFER TO THE SITE PLANS FOR EACH LOCATION FOR CONFIRMATION OF THE CONSTRUCTION.
2. DESIGN LOADING FOR UNDERPASSES HN-HO-72. REFER TNZ BRIDGE MANUAL.
3. FOUNDATION SUBGRADE SHALL HAVE A MINIMUM SAFE BEARING CAPACITY OF 80kPa.
4. SEQUENCING OF THE WORK IS BY THE CONTRACTOR.
5. REFER ENTRANCEWAYS STANDARD SPECIFICATION FOR MANUFACTURE & INSTALATION 30 MARCH 2007.
5. CHECK ALL DIMENSIONS AND LEVELS ON SITE BEFORE STARTING CONSTRUCTION.
6. ADVISE DESIGNER OF ANY CHANGES IN THE GROUND CONDITIONS AND/OR CONSTRUCTION TO THAT SHOWN OR IMPLIED ON THE PLANS AND OBTAIN DECISION BEFORE PROCEEDING FURTHER.
7. CONCRETE CONSTRUCTION TO NZS 3109:1997.
DESIGN LIFE OF PRECAST IS 50 YEARS.
DURABILITY - MINIMUM 28 DAY STRENGTHS SHALL BE FOR
ZONE A2 - 35MPa
ZONE B1 - 40MPa
ZONE B2 - 45MPa
SITES NOT COVERED ARE THOSE IN ZONE C - TIDAL/SPLASH/SPRAY ZONE AND WHERE THE GROUND CONDITIONS ARE UNSUITABLE.
8. REINFORCING STEEL TO AS/NZS 4671.
REINFORCING GRADES
D = DEFORMED GRADE 300 (NOT USED HERE)
H = DEFORMED GRADE 500
REINFORCING COVERS (mm) CODE MINIMUM DESIGN VALUES
- INTERNAL WALLS & ROOF 30 35
- FLOOR 35 40
- EXTERNAL SURFACES 25 35
9. ALL METALWORK TO BE HOT DIP GALVANISED FINISH U.N.O.



LONG SECTION



PLAN

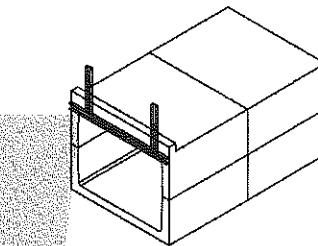
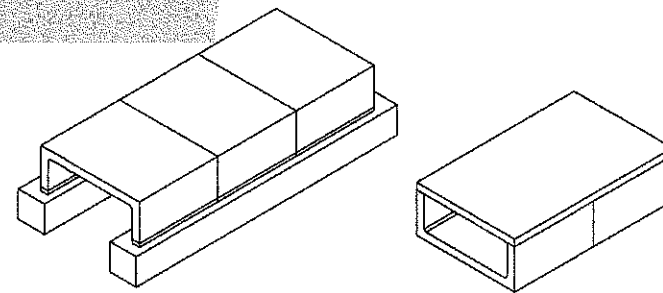
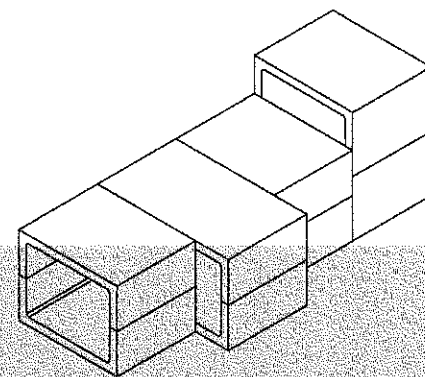
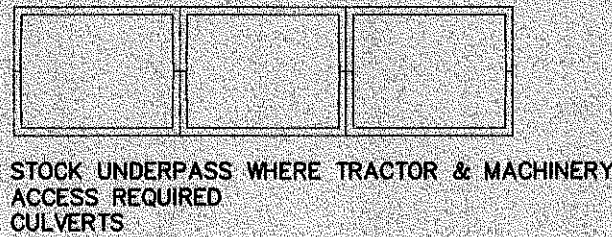
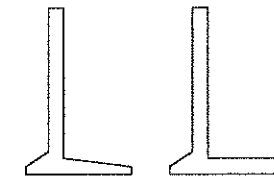
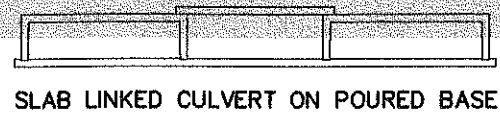
TYPICAL UNDERPASS LAYOUT

0	For Use	30/03/07
A	For Review	18/01/07
REV	DESCRIPTION	DATE

 Consulting Engineers 386 MANGOREI RD - NEW PLYMOUTH - Ph. 06 7590999	Client ENTRANCEWAYS 2006 Ltd Ph/Fax 06 759 2037. NEW PLYMOUTH Email - spike@boxculvert.co.nz www.boxculvert.co.nz	Project STOCK UNDERPASSES	Sheet Title SPECIFICATION & TYPICAL LAYOUT	Drawing No. 180-02 <table border="1" style="font-size: small;"> <tr> <td>Job No.</td> <td>Sheet</td> <td>Rev.</td> </tr> <tr> <td>260</td> <td>01</td> <td>0</td> </tr> </table>	Job No.	Sheet	Rev.	260	01	0
	Job No.	Sheet	Rev.							
260	01	0								
© COPYRIGHT RED JACKET LTD										

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2.5x1.0	3.0x1.0	3.5x1.0	4.0x1.0
2.5x1.5	3.0x1.5	3.5x1.5	4.0x1.5
2.5x2.0	3.0x2.0	3.5x2.0	4.0x2.0
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2.5x3.0	3.0x3.0	3.5x3.0	4.0x3.0

ALL DIMENSIONS ARE INTERNAL



REV	DESCRIPTION	DATE
0	For Use	30/03/07
1	For Review	18/01/07

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Project
**CULVERT CHANNEL &
UNDERPASS SYSTEMS**

Sheet Title
**GENERAL
ARRANGEMENTS**

Drawing No.
180-01

Job No.	Sheet	Rev.
260	01	0