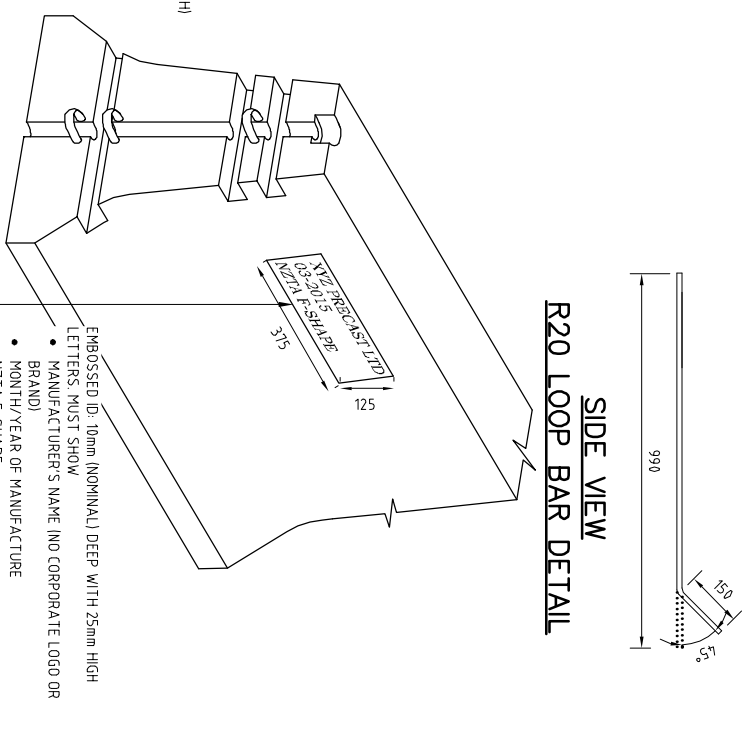


**SECTION E-E**  
FOR DETAILS NOT SHOWN, SEE  
END VIEWS C-C AND D-D

**DETAIL**  
FOR DETAILS NOT SHOWN, SEE  
END VIEWS C-C AND D-D

**PIN AND LOOP CONNECTION**

- GENERAL NOTES FOR ALL DETAILS:**
- MINIMUM INSTALLATION LENGTH SHALL BE 60m.
  - MINIMUM SETOUT RADIUS SHALL BE 235m.
  - ALL REINFORCEMENT SHALL BE FULL LENGTH AS SHOWN AND SHALL BE 50mm CLEAR OF NEAREST FACE OF CONCRETE UNLESS OTHERWISE SHOWN.
  - UNIT WEIGHT PER 6m LENGTH IS APPROXIMATELY 4.5 TONNE.
  - CONCRETE STRENGTH TO BE 40MPa (MIN) @ 28 DAYS.
  - TOP FACE LIFTING EYES MUST BE EYE ANCHOR TYPE CAPABLE OF MULTIPLE USES WITH A MINIMUM LIFTING CAPACITY OF 5 TONNE AND TIED DIRECTLY INTO THE INTERNAL BARRIER REINFORCEMENT. LIFTING EYES SHALL BE CHECKED FOR SIGNS OF DISTORTION OR DAMAGE BEFORE EVERY LIFT. THE USE OF INCLINED STROPS, CHAINS ARE PROHIBITED.
  - CORRECT HANDLING TECHNIQUES TO BE APPLIED AND UNITS MUST BE LIFTED VERTICALLY USING LOAD CERTIFIED LIFTING BAR.
  - SCUPPER SHALL BE LOCATED BETWEEN STIRRUPS. BOTTOM LIFTING EYES SHALL BE LOCATED WITHIN THE SCUPPERS.
  - BARRIER PIN WASHER SHALL BE WELDED AS SHOWN.
  - JOINT PIN TO BE HIGH STRENGTH GRADE 8.8
  - ALL PINS, BOLTS, DOWELS, LOOP BARS, AND CONNECTORS SHALL BE HOT-DIP GALVANIZED TO AS/NZS 4680 AFTER FABRICATION.
  - EACH UNIT SHALL BE PERMANENTLY IDENTIFIED BY PROVISION OF EMBOSSING AS SHOWN INDICATIVELY IN ISOMETRIC VIEW OR BY USE OF AN RFID TAG INCORPORATED INTO THE UNIT.
  - SYSTEM AS SHOWN RATED TO NCRP930 TL-3
  - SYSTEM MUST BE INSTALLED WITH NZTA M23 END CRASH CUSHION AT EXPOSED ENDS.
  - ALL INSTALLATIONS MUST BE FULLY COMPLIANT WITH NZTA COPPTH.
  - CONCRETE BARRIER TO HAVE FORMED FINISH SURFACE TO F4 AND BASE SURFACE FINISH TO U3.
  - REINFORCING STEEL:
    - D = DEFORM GRADE 300E STEEL
    - HD = DEFORM GRADE 500E STEEL
    - R = PLAIN ROUND GRADE 300E STEEL
    - HR = PLAIN ROUND GRADE 500E STEEL
  - TOLERANCES SHALL BE IN ACCORDANCE WITH NZS 3109, AND AS DETAILED BELOW:
    - UP TO 3m ± 5mm
    - 3m TO 6m ± 8mm
    - 6m TO 12m ± 10mm
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.



**ISOMETRIC VIEW**

No.	Revision	Date	Approved	Date
3	REVISED LOOP DIMENSION AND PIN DETAIL	09/15	JC	09/2015
2	LIFTING ANCHOR REINFORCEMENT ADJUSTMENT	08/15	FT	09/2015
1	CONNECTING PIN AND REINFORCING AMENDMENTS	06/15		
0	DRAFT RELEASE	06/15		

**NZ TRANSPORT AGENCY**  
WAKA KOTAHU

**Standard Detail**

Series	Title
Road Safety Barriers	Temporary Precast Concrete Barrier
	Pin and Loop Assembly

Ref./Number

**TCB-1**

Rev. **3**