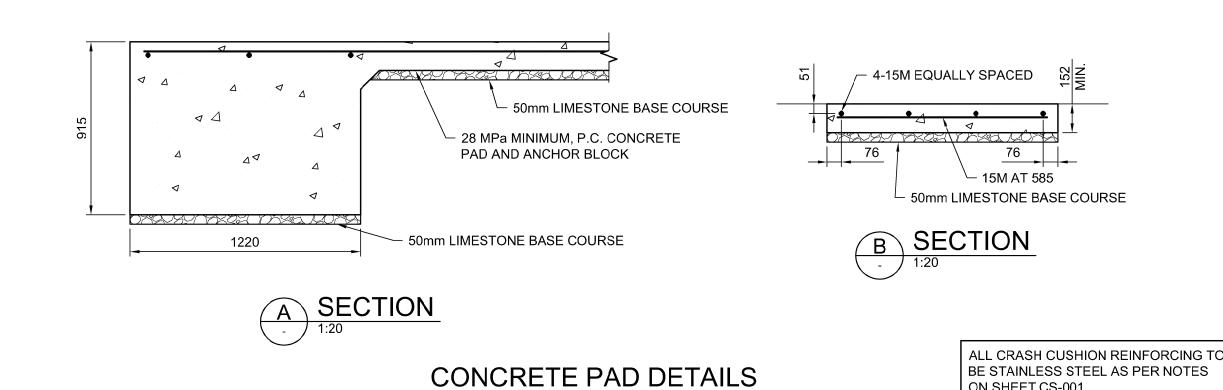
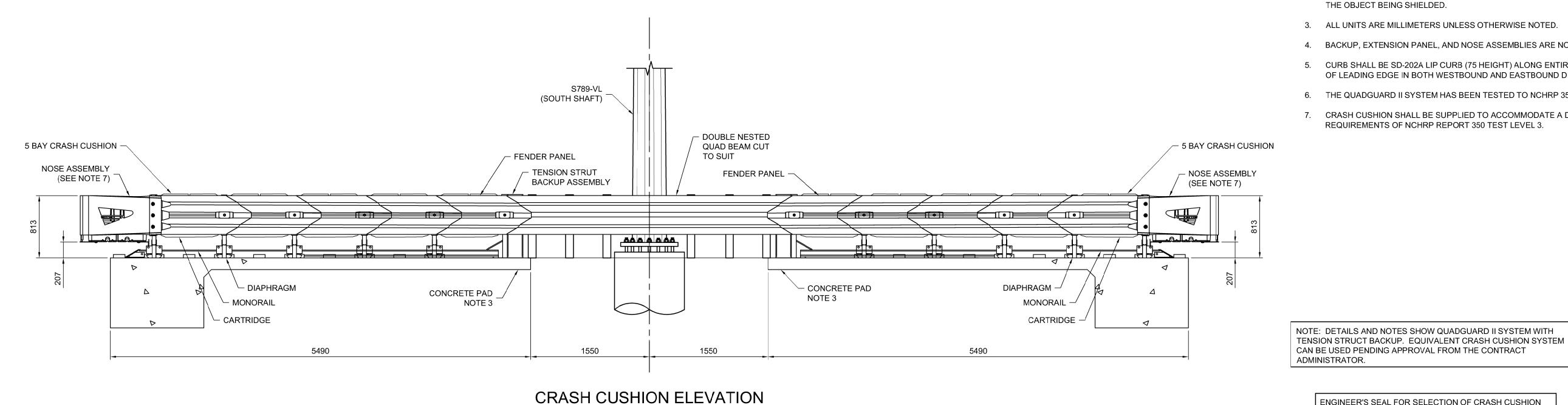


# PLAN - REINFORCING





### CRASH CUSHION WITH TENSION STRUT BACKUP NOTES:

- 1. PROVISION SHALL BE MADE FOR REAR FENDER PANELS TO SLIDE REARWARD UPON IMPACT 762 MIN.
- WHERE NECESSARY, THE CONTRACTOR SHALL SUPPLY AN ADEQUATE TRANSITION FROM THE QUADGUARD II SYSTEM TO THE OBJECT BEING SHIELDED.
- 3. ALL UNITS ARE MILLIMETERS UNLESS OTHERWISE NOTED.
- 4. BACKUP, EXTENSION PANEL, AND NOSE ASSEMBLIES ARE NOT INCLUDED IN MODEL NUMBER, ORDER SEPARATELY.
- 5. CURB SHALL BE SD-202A LIP CURB (75 HEIGHT) ALONG ENTIRE LENGTH OF QUADGUARD II SYSTEM AND 15.0m IN ADVANCE OF LEADING EDGE IN BOTH WESTBOUND AND EASTBOUND DIRECTIONS.
- 6. THE QUADGUARD II SYSTEM HAS BEEN TESTED TO NCHRP 350.
- 7. CRASH CUSHION SHALL BE SUPPLIED TO ACCOMMODATE A DESIGN SPEED OF 80 km/h. THE SYSTEM SHALL MEET THE REQUIREMENTS OF NCHRP REPORT 350 TEST LEVEL 3.

# **METRIC**

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

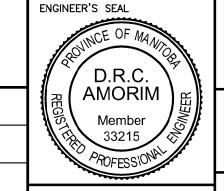
ON SHEET CS-001.

## WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

- 1. NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
- 2. TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.
- 3. OBTAIN EXCAVATION PERMITS PRIOR TO CONSTRUCTION.

**DILLON**CONSULTING DESIGNED CHECKED DRA SSR DRAWN APPROVED Certificate of Authorization RELEASED FOR Dillon Consulting Limited (MB) AS SHOWN HOR. SCALE CONSULTANT PROJECT NUMBER No. 1789 Date: 2018/02/09 VERTICAL AS SHOWN 0 ISSUED FOR TENDER 18/02/09 DRA DATE 2018/02/09 DATE O. REVISIONS



17-5932



ENGINEER'S SEAL FOR SELECTION OF CRASH CUSHION STYLE ONLY. CONCRETE PAD AND REINFORCING DESIGN,

AND CRASH CUSHION DESIGN AND INSTALLATION SHALL

BE AS PER MANUFACTURER'S DETAILS.

### THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT

FERMOR AVENUE BRIDGE OVER SEINE RIVER	CITY DRAWING NUMBER P-3489-2017-CS-097
BRIDGE REHABILITATION, PEDESTRIAN-CYCLIST UNDERPASS STRUCTURE AND ROADWORKS FROM ST. ANNE'S ROAD TO ARCHIBALD STREET	SHEET OF 100
	CONSULTANT DRAWING NUMBER

S789 - CRASH CUSHION WITH TENSION STRUT BACKUP

CS-097