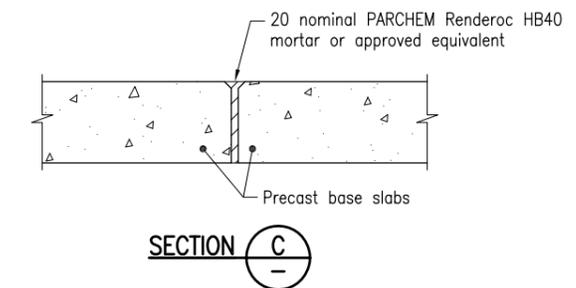
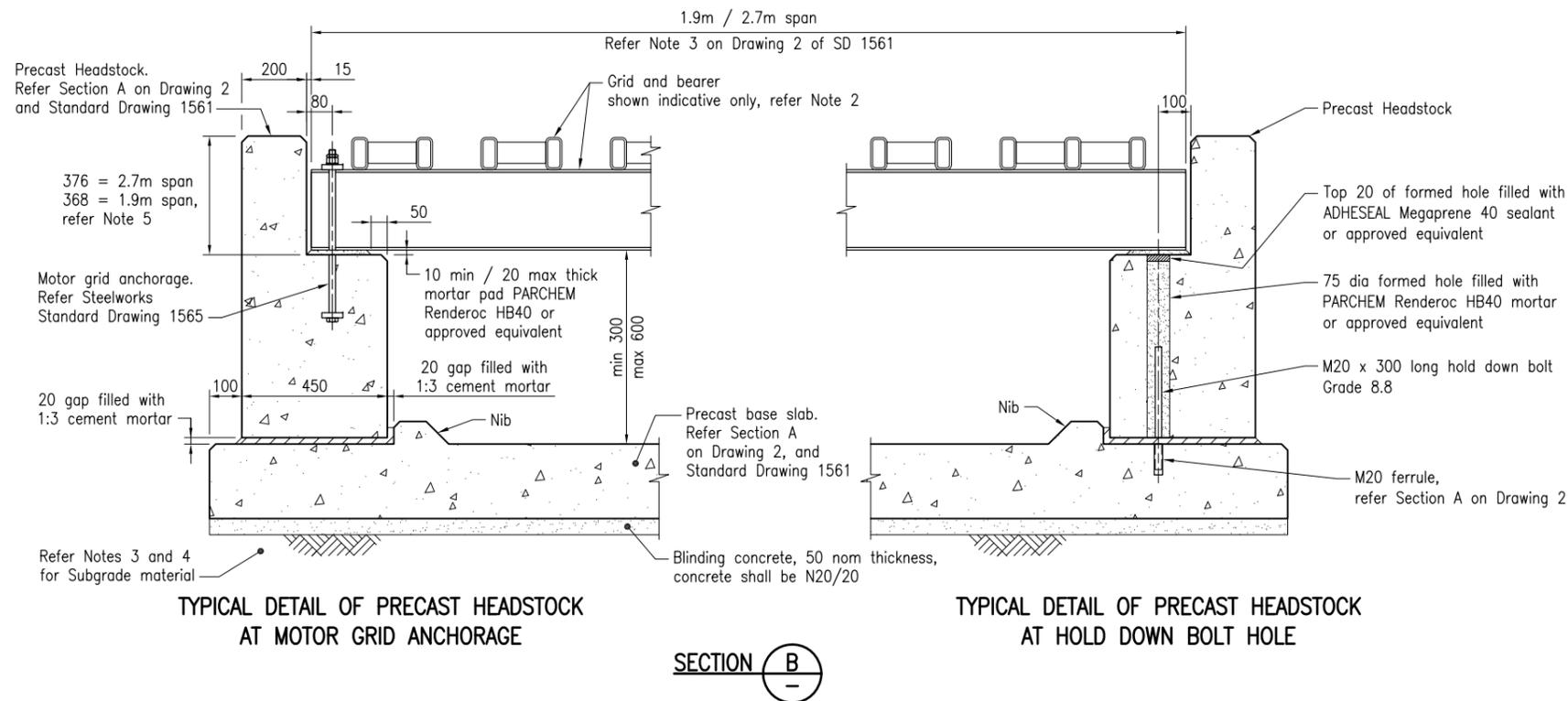
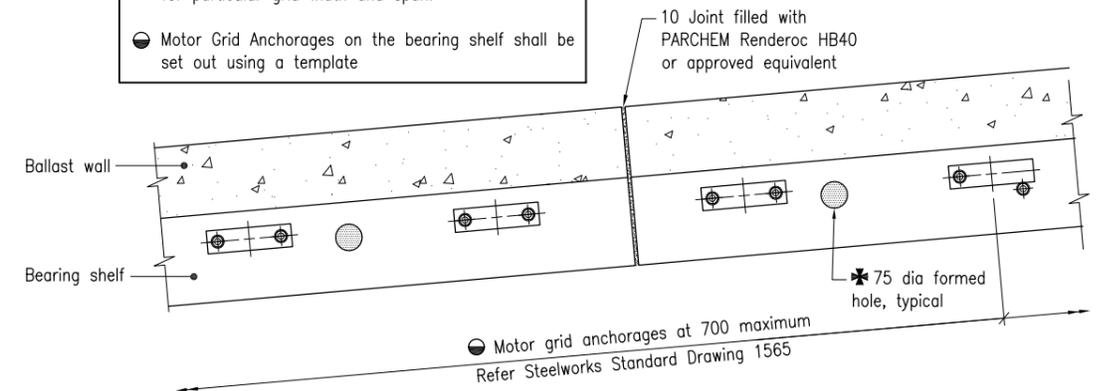


**MOTOR GRID CONSTRUCTION SEQUENCE**

1. Level ground with suitable fill, or existing ground with suitable bearing capacity. Refer NOTES 4 and 5.
2. Place precast base slabs.
3. Install hold down bolts into ferrules located in the precast base slabs. Lower precast headstocks onto precast base slabs.
4. Use a template to ensure motor grid anchorages on the bearing shelf of the headstocks are matching with the spacing of the Bearers. Refer Standard Drawing 1565 for details for details of Motor Grid Steelworks.
5. Use mortar to fill hold down bolt holes with minimum 1 day curing and 10MPa strength.
6. Place approved grout into abutment joints.
7. Place steel motor grids onto headstocks.
8. Tighten nut and washer on UB sections, for motor grid anchorages.

\* Location of ferrules for hold down bolts are indicative only. Accurate location of these is project specific and shall be shown on the project drawings for particular grid width and span.

● Motor Grid Anchorages on the bearing shelf shall be set out using a template

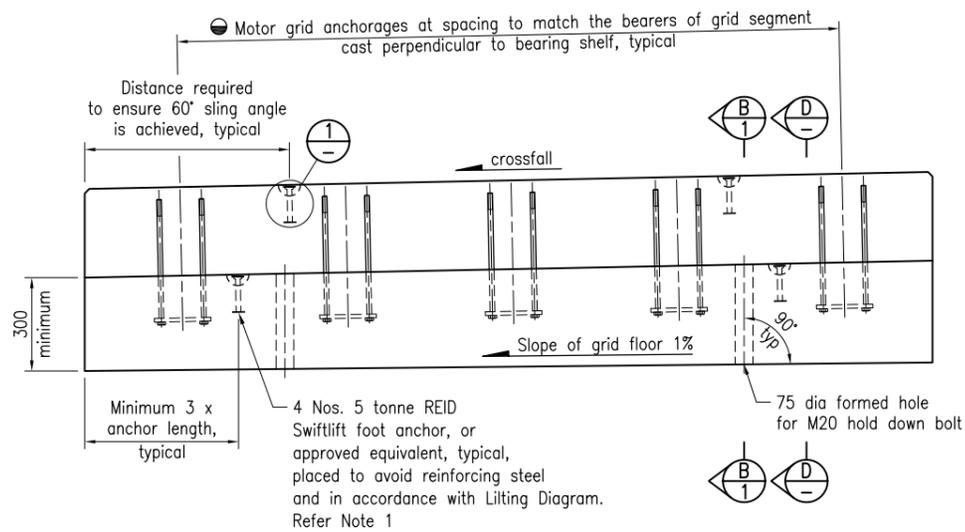


**NOTES:**

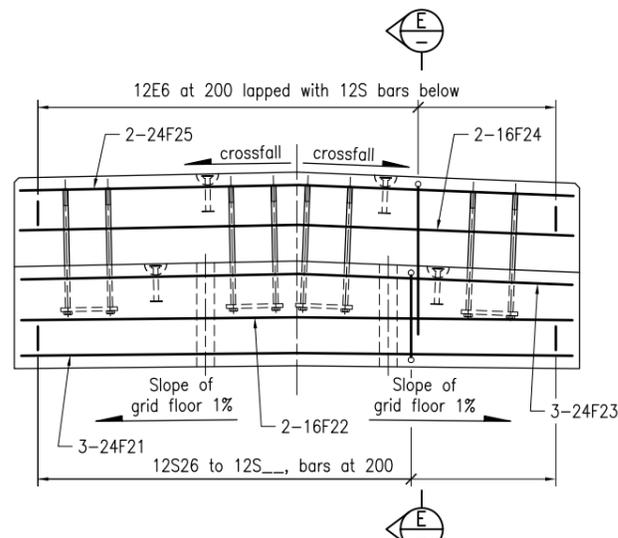
1. Refer Standard Drawing 1561 for General Notes, Grid Construction Scenarios and General Arrangements for Standard Motor Grids.
2. Refer Standard Drawing 1565 for Motor Grid Steelwork details.
3. Location of hold down bolt holes and motor grid anchorages are indicative only. Accurate location of these is project specific and shall be shown on the project drawings for particular grid width and span.
4. DESIGN BEARING PRESSURE under the slab bases is 100kPa.
5. SLABS shall be constructed on a filled or existing subgrade of minimum 500 thick, with minimum 10% soaked CBR to the width of the abutment (compacted to 95% relative dry density), unless the actual bearing capacity of founding material has been assessed by a RPEQ (Geotechnical).
6. FINISHED LEVELS of the ballast wall of the headstock and top of edge RHS rails shall be within +0, -5mm tolerance

**PRECAST HEADSTOCK AND PRECAST BASE SLABS ASSEMBLY**

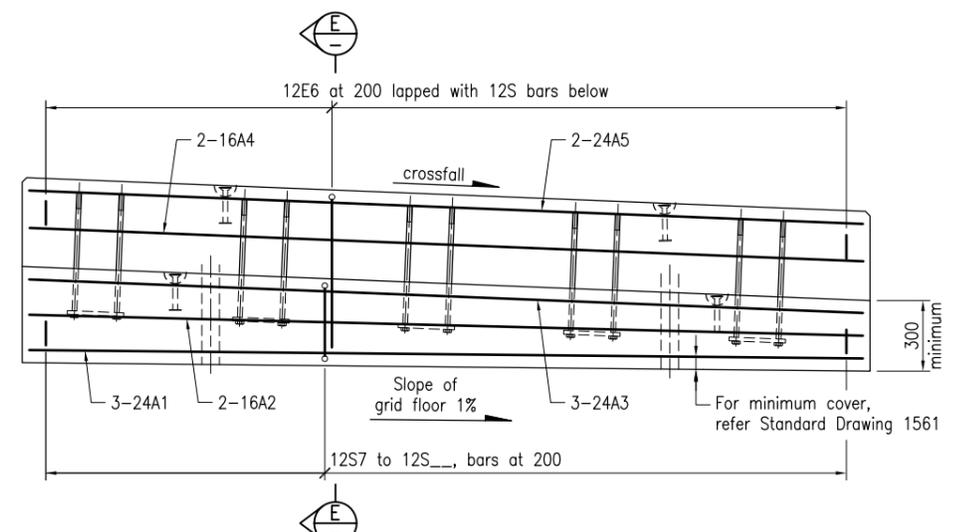
Department of Transport and Main Roads		<p>© The State of Queensland (Department of Transport and Main Roads) 2019  <a href="http://creativecommons.org/licenses/by/4.0/au">http://creativecommons.org/licenses/by/4.0/au</a></p>	
ROAD FURNITURE			
MOTOR GRID - PRECAST BASE SLAB DRAWING 1 of 2		A3	Standard Drawing No 1564
		Not to Scale	Date 11/19
A	B	C	



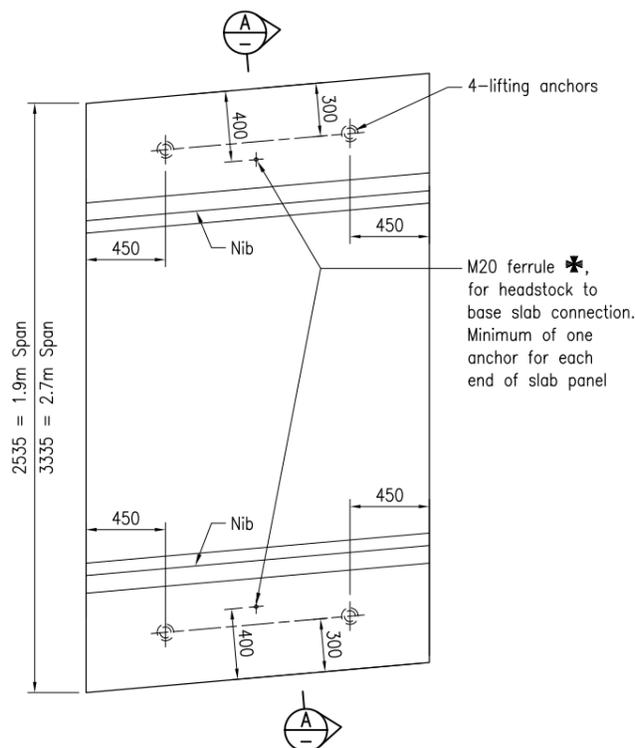
**ELEVATION**  
**TYPICAL PRECAST HEADSTOCK ASSEMBLY**  
 Crossfall Type shown, Superelevation similar.  
 No OFF and geometry of each headstock is project specific



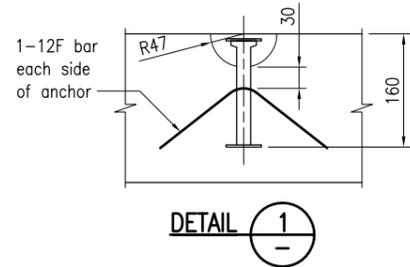
**ELEVATION**  
**TYPICAL PRECAST HEADSTOCK AT CROWN**  
 Crossfall Type shown, Superelevation similar.  
 No OFF and geometry of each headstock is project specific



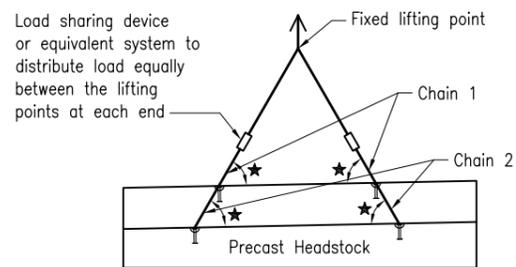
**ELEVATION**  
**TYPICAL PRECAST HEADSTOCK REINFORCEMENT**  
 Crossfall Type shown, Superelevation similar.  
 No OFF and geometry of each headstock is project specific



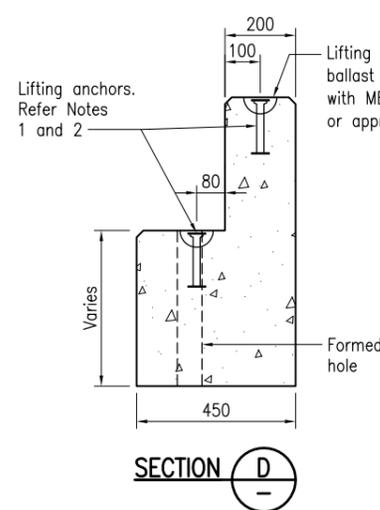
**PLAN**  
**TYPICAL PRECAST SLAB**  
 No OFF and width of each slab is project specific



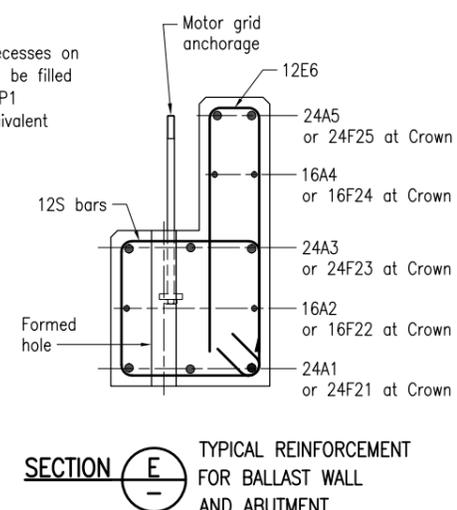
**DETAIL 1**



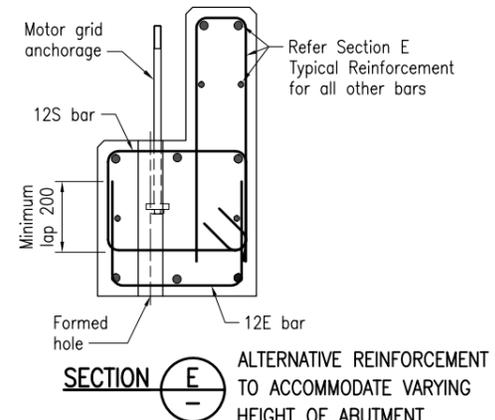
**LIFTING DIAGRAM**  
 Precast Headstock shown, Base Slab similar  
 \*60° minimum



**SECTION D**

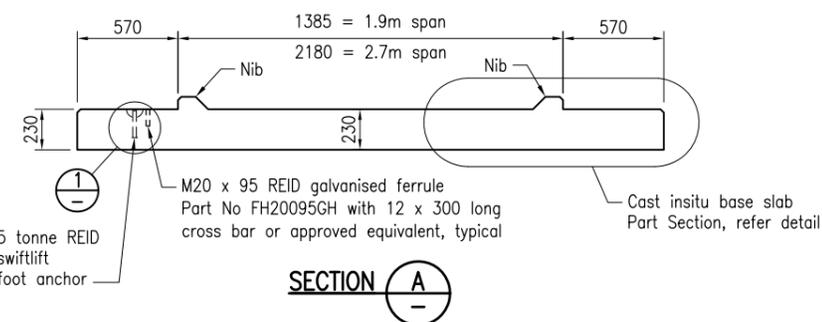


**SECTION E** TYPICAL REINFORCEMENT FOR BALLAST WALL AND ABUTMENT

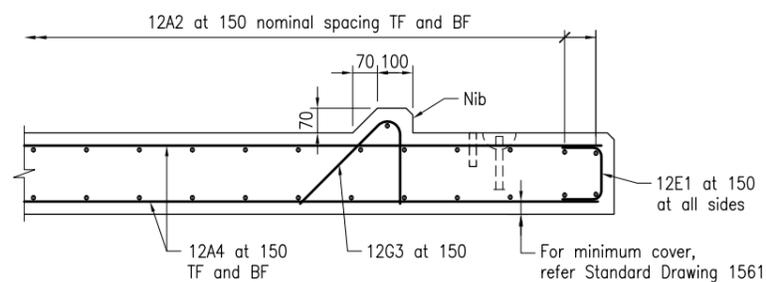


**SECTION E** ALTERNATIVE REINFORCEMENT TO ACCOMMODATE VARYING HEIGHT OF ABUTMENT

\* Location of ferrules for hold down bolts are indicative only. Accurate location of these is project specific and shall be shown on the project drawings for particular grid width and span.  
 Motor Grid Anchorages on the bearing shelf shall be set out using a template



**SECTION A**



**PART SECTION**  
**CAST INSITU BASE SLAB - TYPICAL REINFORCEMENT DETAILS**

**DETAILS OF PRECAST BASE SLABS AND PRECAST HEADSTOCKS**

**NOTES:**

- For superelevation (single slope) road surface, the reinforcement similar.
- The Lifting anchor details shown are for maximum precast item weight of 5t. For all other cases, lift points and devices shall be designed in accordance with MRTS72 and shown on project drawings. Dynamic load allowance for lifting anchor design is 1.5.
- Lifting anchors shall maintain minimum cover to reinforcement.
- The width of the Precast Slab panels shall be defined to suit project specific Motor Grid width.

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ROAD FURNITURE			
MOTOR GRID - PRECAST BASE SLAB DRAWING 2 of 2		A3	Standard Drawing No 1564
		Not to Scale	Date 11/19
A	B	C	