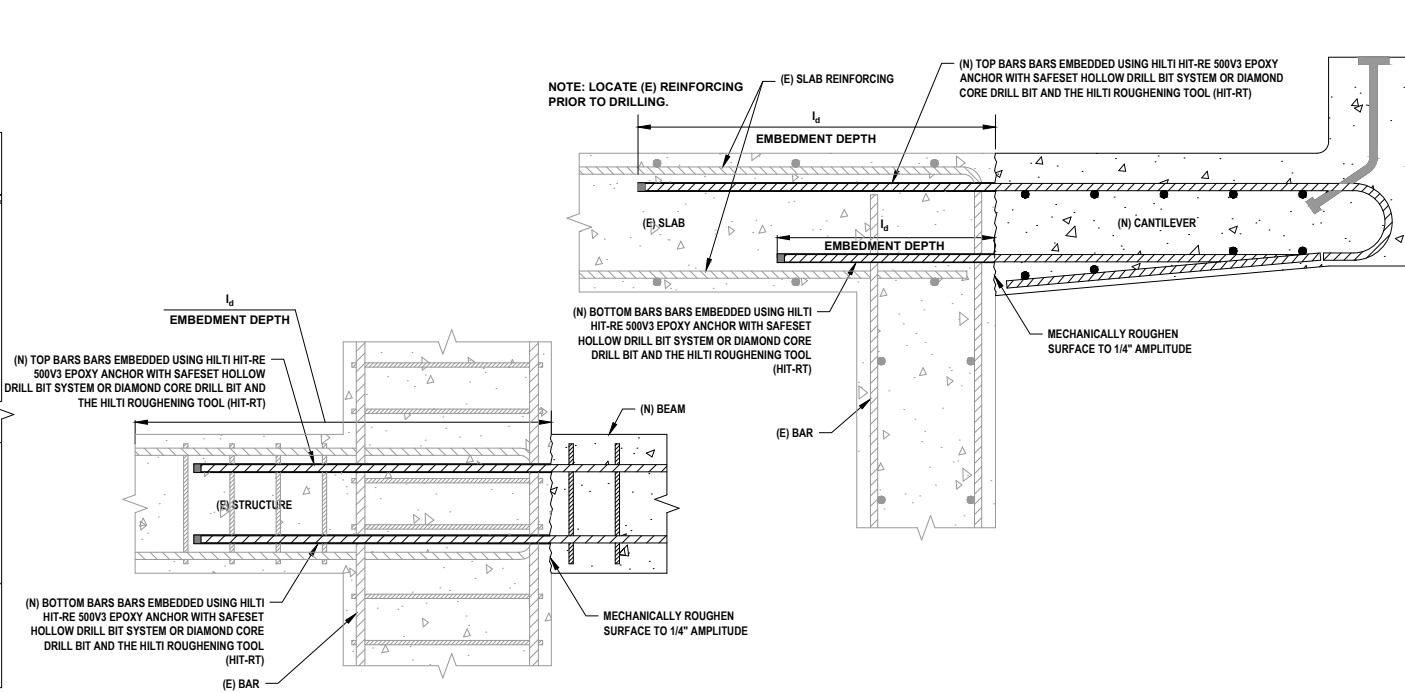
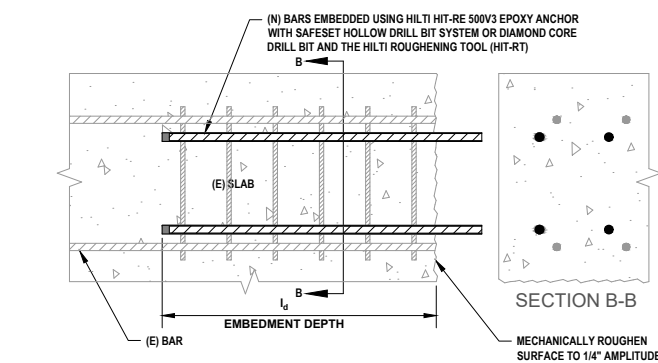


1
R.0.1
POST INSTALLED SHEAR DOWELS
FOR NEW ONLAY SHEAR WALL
NOT TO SCALE

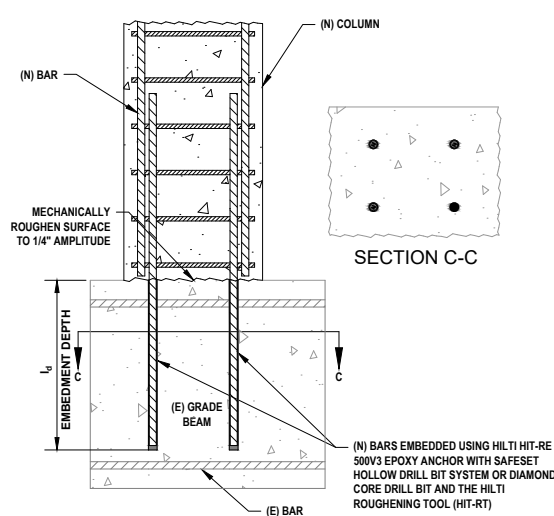


2
R.0.1
POST INSTALLED BAR DEVELOPMENT
LENGTH IN SPECIAL MOMENT FRAME
NOT TO SCALE

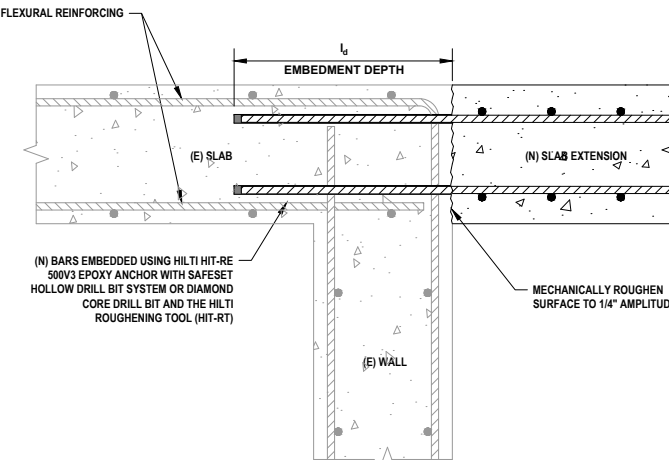
3
R.0.1
POST INSTALLED BAR TENSION LAP
SPlice FOR CANTILEVER SECTION
NOT TO SCALE



4
R.0.1
POST INSTALLED BAR TENSION LAP
SPlice NEW SLAB TO EXIST SLAB
NOT TO SCALE



5
R.0.1
STARTER BARS FOR COLUMN
EXTENSION INTO EXISTING FOOTING
NOT TO SCALE



6
R.0.1
TENSION LAP SPlice FOR NEW
SLAB INTO EXISTING SLAB/WALL
NOT TO SCALE

NOTES TO THE ENGINEER OF RECORD:

- ENGINEER OF RECORD SHALL INDICATE POST-INSTALLED REBAR DOWEL SIZE, SPACING, EDGE DISTANCE, EMBEDMENT DEPTH AND PROTRUDING LENGTH ON CONSTRUCTION DOCUMENTS
- DOWELS SHALL BE EN 10080, GRADE B500B.
- ANCHORING SYSTEM: HILTI HIT-RE 500V3 EPOXY ANCHORING SYSTEM, INSTALL AS PER MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), PERMISSIBLE CONCRETE TEMPERATURE RANGE FOR INSTALLATION: -5°C-40°C, CONCRETE SHALL BE DRY DURING DOWEL INSTALLATION.
- DRILL HOLES USING THE HILTI HOLLOW DRILL BIT SAFESET TECHNOLOGY
- LOCATE EXISTING REINFORCING PRIOR TO DRILLING - DO NOT DAMAGE (E) REINFORCING WITHOUT PRIOR AUTHORIZATION OF THE ENGINEER OF RECORD.

General Notes for Post-Installed Rebar

1. EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED REBAR CONNECTIONS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI.

a) REBAR DOWELING INTO CONCRETE

i) ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE :

- HILTI HIT-HY 200R V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VC 150/300 WITH CONTINUOUSLY DEFORMED REBAR PER ETA 19/0600.
- HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VC 150/300 WITH CONTINUOUSLY DEFORMED REBAR PER ETA 16/0142.
- HILTI HIT-HY 200R V3 SAFE SET SYSTEM WITH HILTI HIT-RT ROUGHENING TOOL WITH CONTINUOUSLY DEFORMED REBAR PER ETA 19/0600 IN DIAMOND CORED HOLES.
- HILTI HIT-HY 500 V3 SAFE SET SYSTEM WITH HILTI HIT-RT ROUGHENING TOOL WITH CONTINUOUSLY DEFORMED REBAR PER ETA 16/0142 IN DIAMOND CORED HOLES.

ii) BASIS OF DESIGN INCLUDES THE FOLLOWING DESIGN PARAMETERS :

- WATER-SATURATED CONCRETE
- BASE MATERIAL TEMPERATURE OF -40 TO +80 DEGREES CELSIUS
- ALLOWABLE WITH HAMMER-DRILL, HOLLOW DRILL-BIT SYSTEM, AND CORE DRILLING METHODS

2. REBAR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HILTI OR SUCH OTHER METHOD AS APPROVED BY THE C&S ENGINEER/SUPERINTENDENT OFFICER/THE ENGINEER. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE C&S ENGINEER/SUPERINTENDENT OFFICER/THE ENGINEER PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS THAT HAVE BEEN ENDORSED BY ANOTHER PROFESSIONAL ENGINEER DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF MEETING THE PERFORMANCE OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ETA SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. POST-INSTALLED REBAR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, INSTALLATION TEMPERATURE, MOISTURE CONDITION OF CONCRETE, AND DRILLING METHODS.

3. INSTALL POST-INSTALLED REBAR PER THE MANUFACTURER PRINTED INSTALLATION INSTRUCTIONS (MPII), AS INCLUDED IN THE MORTAR PACKAGING.

4. MORTARS IN UPWARDLY INCLINED ORIENTATION AND/OR IN ALL EMBEDMENT DEPTHS MUST BE INSTALLED USING THE HILTI PISTON PLUG SYSTEM.

5. THE CONTRACTOR SHALL ARRANGE A MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF SPECIFIED MORTARS. THE C&S ENGINEER/SUPERINTENDENT OFFICER/THE ENGINEER MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF REBAR INSTALLATION.

6. RESISTANCE OF POST-INSTALLED REBAR IS DEPENDENT UPON SPACING BETWEEN ADJACENT REBARS AND PROXIMITY TO THE EDGE OF CONCRETE. INSTALL POST-INSTALLED REBARS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

7. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC NEW POST-INSTALLED REBAR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS BY HILTI FERROSCAN, GPR, X-RAY OR OTHER MEANS.

<Notes to designer (delete this note after reading and replace with title block information)>
 2. Details shown are up to date as of September 2015.

JOB NUMBER:

DRAWN:

CHECKED:

ISSUE DATE:

REVISIONS:

CONTENTS:

SHEET NAME:

R.0.1

SHEET NUMBER: