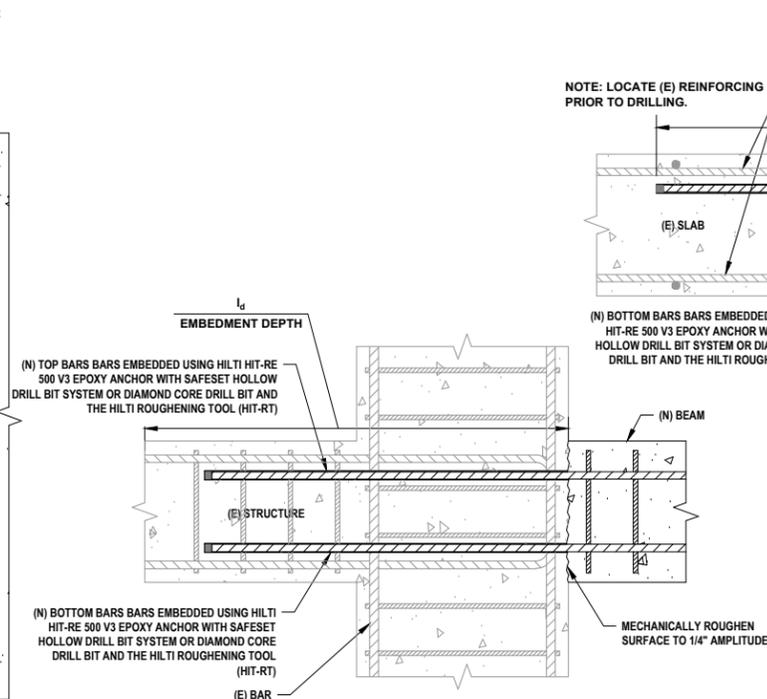
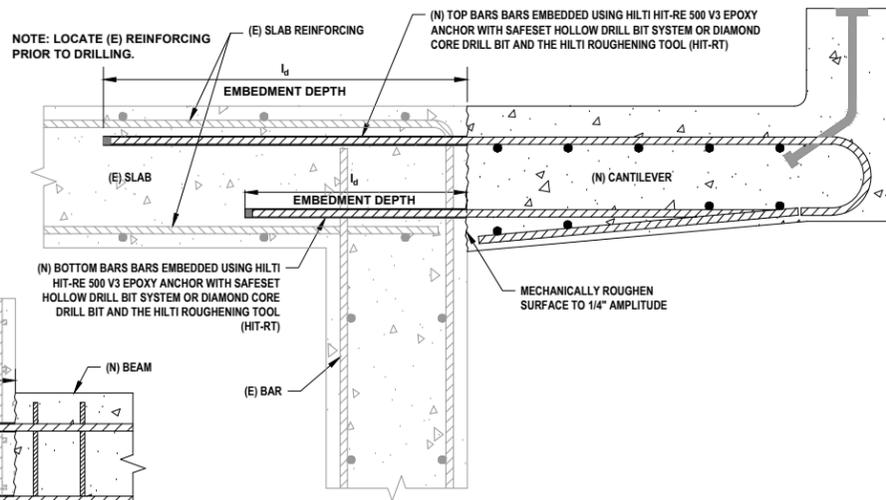


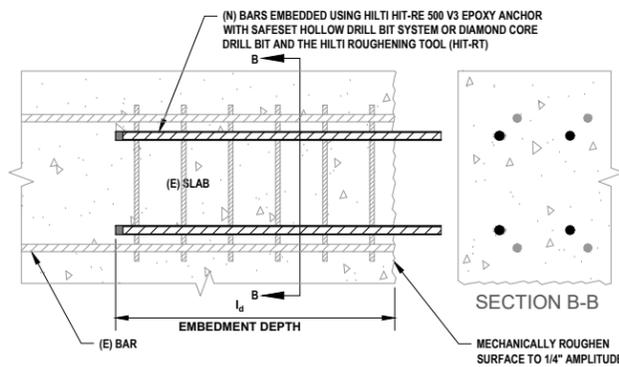
1
R.0.1
POST INSTALLED SHEAR DOWELS FOR NEW ONLAY SHEAR WALL
NOT TO SCALE



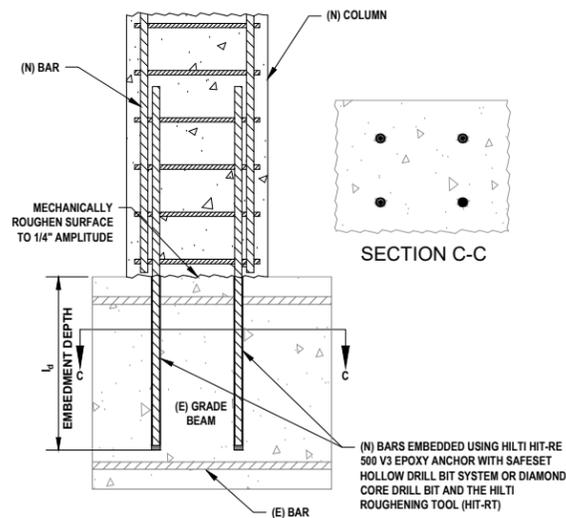
2
R.0.1
POST INSTALLED BAR DEVELOPMENT LENGTH IN SPECIAL MOMENT FRAME
NOT TO SCALE



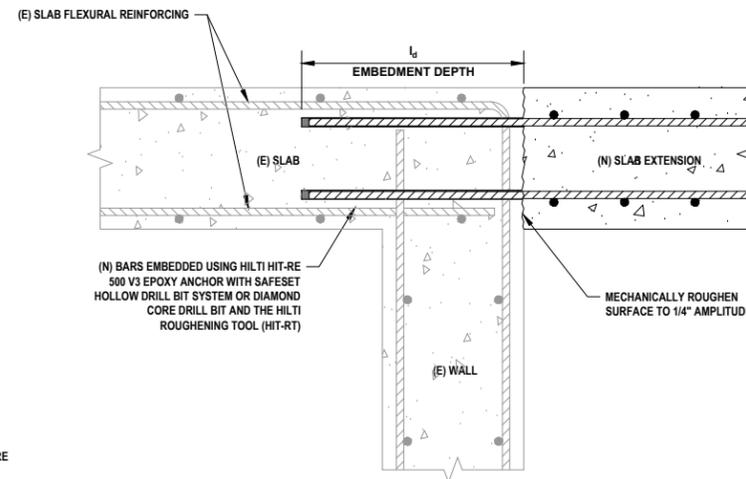
3
R.0.1
POST INSTALLED BAR TENSION LAP SPLICE FOR CANTILEVER SECTION
NOT TO SCALE



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

General Notes for Post-Installed Rebar

POST-INSTALLED REINFORCING BAR CONNECTIONS DESIGNED PER THE DEVELOPMENT AND SPLICE REQUIREMENTS OF CSA A23.3. POST-INSTALLED REINFORCING BAR CONNECTIONS SHALL CONSIST OF THE FOLLOWING EPOXY SYSTEMS AS PROVIDED BY HILTI (CANADA) CORPORATION, CONTACT HILTI AT (800) 363-4458 FOR PRODUCT RELATED QUESTIONS.

1. POST-INSTALLED REINFORCING BAR CONNECTIONS IN CONCRETE.

a. ADHESIVE SYSTEMS WITH Safe Set™ TECHNOLOGY:

- I. HILTI HIT-RE 500 V3 SAFESET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD), AND HILTI VACUUM POST-INSTALLED STEEL REINFORCING BARS INSTALLED PER ICC ESR-3814.
- II. HILTI HIT-HY 200 V3 SAFESET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD), AND HILTI VACUUM WITH POST-INSTALLED STEEL REINFORCING BARS INSTALLED PER ICC ESR-4868.

2. THE DESIGN OF STRAIGHT POST-INSTALLED REINFORCING BARS SHALL BE PERFORMED PER THE DEVELOPMENT AND SPLICE REQUIREMENTS OF THE CSA A23.3 DESIGN OF CONCRETE STRUCTURES. THE POST-INSTALLED REINFORCING BAR SYSTEM IS AN ALTERNATIVE TO CAST-IN-PLACE REINFORCING BARS GOVERNED BY CSA A23.3 AND THE NBC OF CANADA.

3. THE ADHESIVE SYSTEM SHALL BE TESTED IN ACCORDANCE WITH THE ICC-ES ACCEPTANCE CRITERIA FOR POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE ELEMENTS (AC308), TABLE 3.8. TECHNICAL DATA SHALL BE PUBLISHED IN AN ICC-ES EVALUATION SERVICE REPORT.

- a. ICC-ES ESR-3814 FOR HILTI HIT-RE 500 V3 EPOXY ANCHORS AND POST-INSTALLED REINFORCING BAR CONNECTIONS IN CRACKED AND UNCRACKED CONCRETE.
- b. ICC-ES ESR-4868 FOR HILTI HIT-HY-200 V3 EPOXY ANCHORS AND POST-INSTALLED REINFORCING BAR CONNECTIONS IN CRACKED AND UNCRACKED CONCRETE.

4. POST-INSTALLED REINFORCING BAR INSTALLATION SHALL BE PERFORMED BY PERSONNEL TRAINED TO INSTALL THE SYSTEM PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), AS INCLUDED IN THE ANCHOR PACKAGING. THE CONTRACTOR SHALL ARRANGE FOR A MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR POST-INSTALLED REINFORCING BARS. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION PRIOR TO THE COMMENCEMENT OF INSTALLING THE BARS THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO WILL INSTALL POST-INSTALLED REINFORCING BARS HAVE BEEN TRAINED TO INSTALL THE SYSTEM PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).

5. THE POSITION OF EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE SHALL BE LOCATED PRIOR TO POST-INSTALLING BARS. EXISTING BARS SHALL BE LOCATED USING HILTI FERROSCAN, GPR, X-RAY, CHIPPING 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: _____