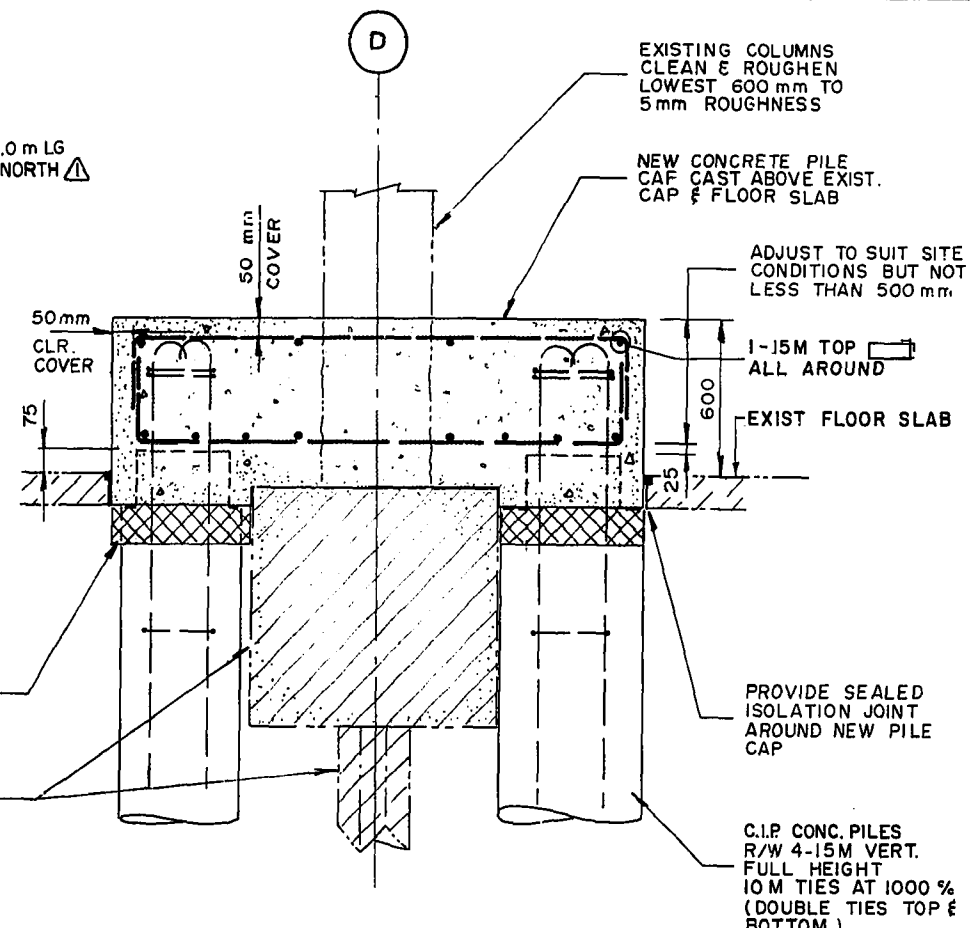
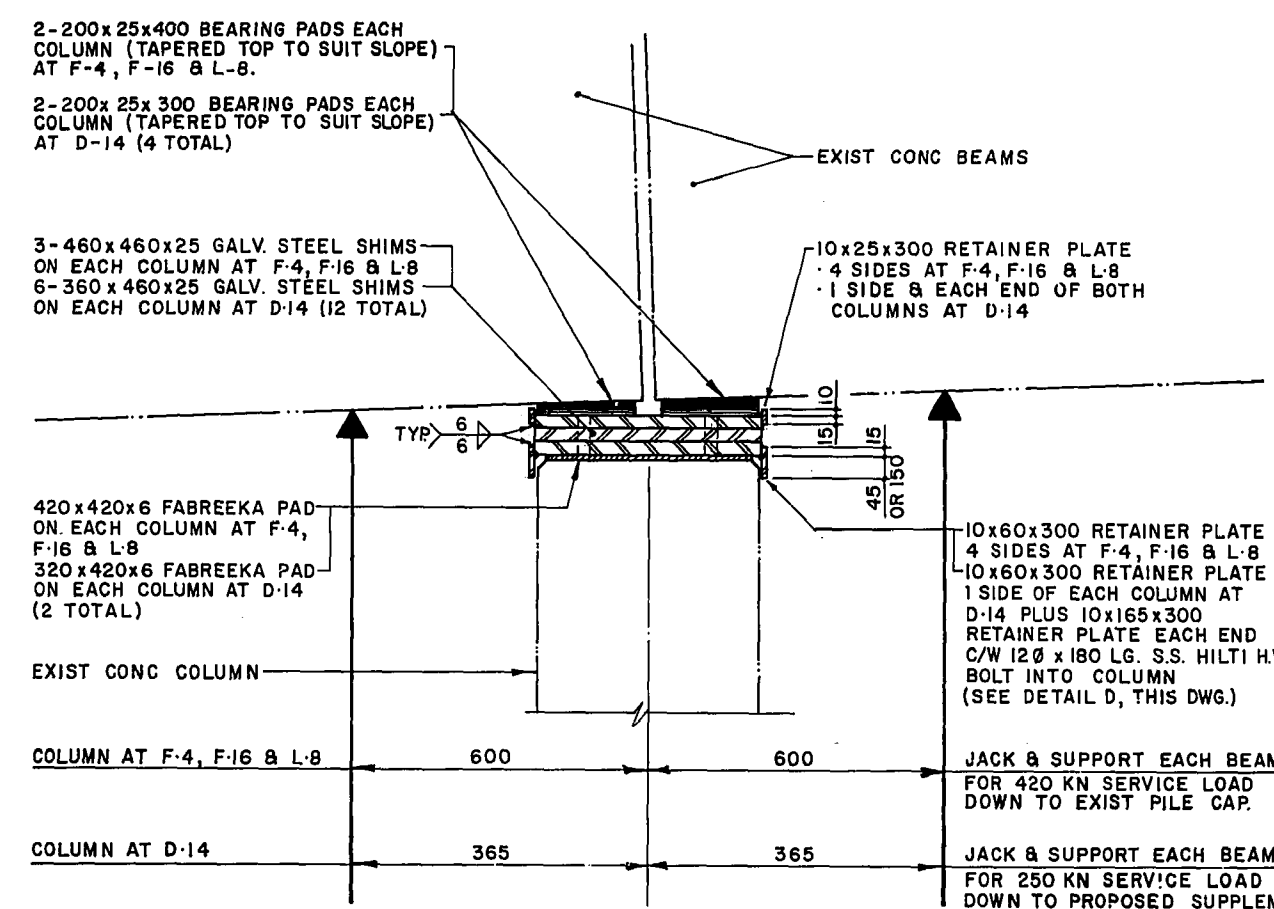


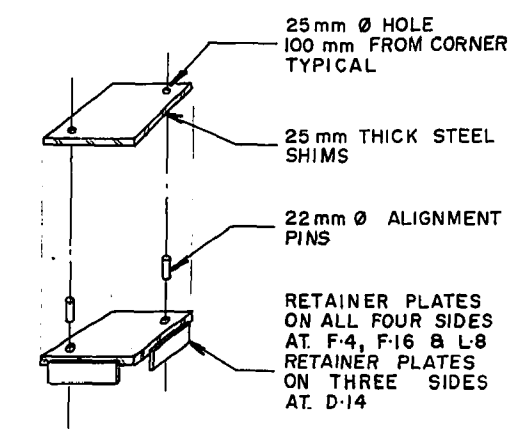
**A PLAN**  
65 SUPPLEMENTARY FOUNDATION  
1:20



**1 SECTION**  
65 1:20

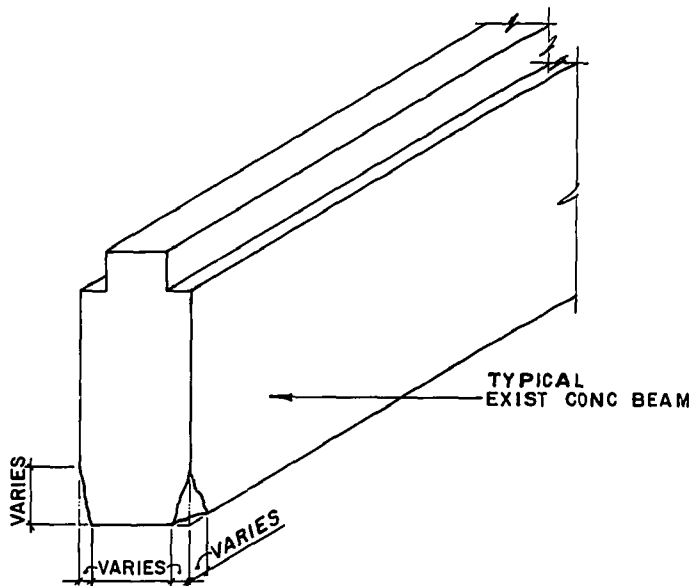


**2 SECTION**  
65 EXISTING COLUMN EXTENSION  
1:20



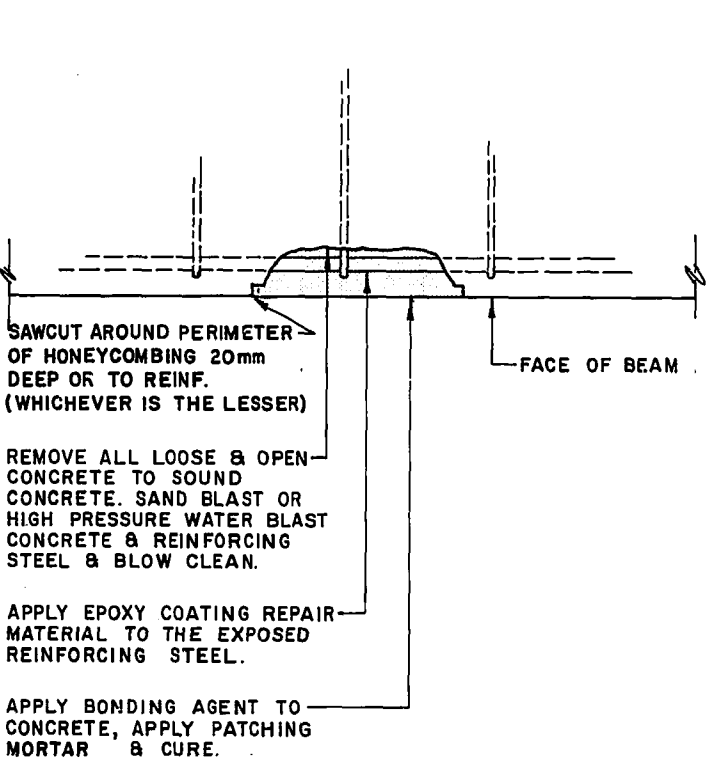
NOTE:  
ALL PLATES AND RODS TO BE MILD STEEL.  
HOT DIP GALVANIZE ALL MATERIAL AFTER FABRICATION.

**SHIM PLATE ALIGNMENT**

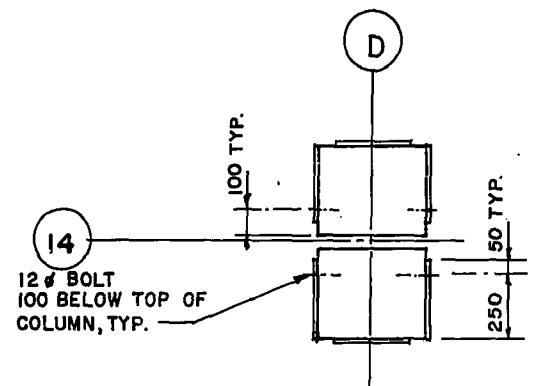


**B DETAIL**  
65 PRECAST ROOF BEAM END CORNER REPAIR

- REPAIR PROCEDURES AT PRECAST ROOF BEAM END CORNERS
- TESTING BY THE CONTRACT ADMINISTRATOR, OR HIS AGENT, TO DETERMINE ANY BEAM END CORNER DELAMINATIONS (ACCESS PROVIDED BY THE CONTRACTOR TO ALL BEAM END CORNERS).
  - CONTRACTOR TO REMOVE ANY BEAM END CORNER DELAMINATIONS FOUND BY THE CONTRACT ADMINISTRATOR.
  - SANDBLASTING OR HIGH PRESSURE WATER BLASTING BY THE CONTRACTOR TO CLEAN CONCRETE AND REMOVE RUST ON EXPOSED REINFORCING STEEL, AND BLOW CLEAN AT ALL NEW AND EXISTING BEAM END CORNER SPALLS OR DELAMINATIONS.
  - APPLY FLEXIBLE WATERPROOFING OVER ALL BEAM END CORNER SPALLS (INCLUDES AREAS WHERE DELAMINATIONS WERE REMOVED).

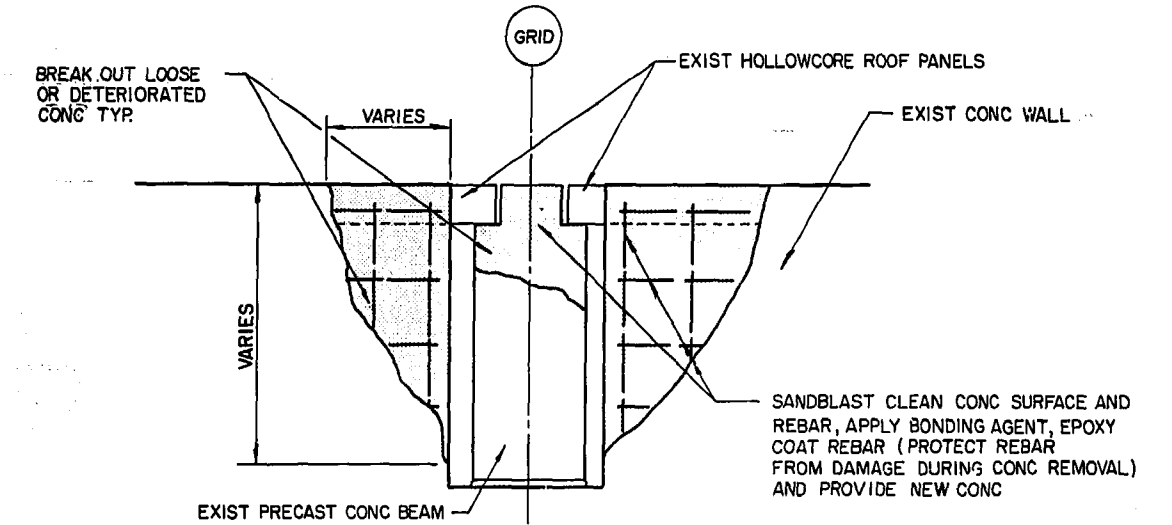


**C DETAIL**  
65 PRECAST ROOF BEAM HONEYCOMB REPAIRS



**D DETAIL**  
65 PLAN OF COLUMNS AT D-14

- JACKING OPERATIONS FOR EXISTING COLUMN EXTENSION
- INSTALL BRACING AND SHORING SYSTEM PRIOR TO ANY JACKING.
  - THE PRECAST ROOF BEAMS SHALL NOT BE JACKED UP MORE THAN REQUIRED. THE MAXIMUM DIMENSION FROM THE TOP OF THE EXISTING COLUMN TO THE UNDERSIDE OF THE JACKED UP PRECAST ROOF BEAMS SHALL NOT BE MORE THAN THE TOTAL THICKNESS OF THE SPECIFIED FABREEKA PAD, STEEL SHIMS, AND BEARING PADS, PLUS 20 mm.
  - ADJUST BRACING AND SHORING SYSTEM DURING JACKING OPERATIONS TO RESTRICT MOVEMENT OF THE PRECAST ROOF BEAMS TO LESS THAN 2 mm IN CASE OF JACKING FAILURE.



**TYPICAL BEAM POCKET REPAIR**  
WALL REPAIR SIMILAR N.T.S.

**RECORD DRAWING**

P.D. No. 91-19

LOCATION APPROVED	B.M. FLEV
UNDERGROUND STRUCTURES	
SUPV. U/G STRUCTURES COMMITTEE	DATE
NOTE:	
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION	
NO REVISIONS	DATE BY
1 TO RECORD DRAWING	10/91 AMU

<b>uma</b>	
UMA Engineering Ltd. Engineers & Architects	
1479 Buffalo Place, Winnipeg, Manitoba, Canada R3T 1L7	
DESIGNED BY	CHECKED BY
S. B. B.	
DRAWN BY	APPROVED BY
K. J. L.	
HOR SCALE NOTED	RELEASED FOR CONST. BY
VERTICAL	
DATE 1991-01-31	DATE 1991-02-15

<b>ENGINEER'S SEAL</b>	
PROVINCE OF MANITOBA	
REGISTERED PROFESSIONAL ENGINEER	
BISWANGER	
CONSULTANT DRAWING NO. 4113 0265 259 02	

<b>THE CITY OF WINNIPEG</b>	
WORKS AND OPERATIONS DIVISION	
WATERWORKS, WASTE & DISPOSAL DIVISION	
WILKES RESERVOIR	
PHASE II CONSTRUCTION	
STRUCTURAL WORKS	
MISCELLANEOUS REPAIR DETAILS	

CITY DRAWING NUMBER	WIL-65
SHEET 5 OF 5	

File # RE 10319