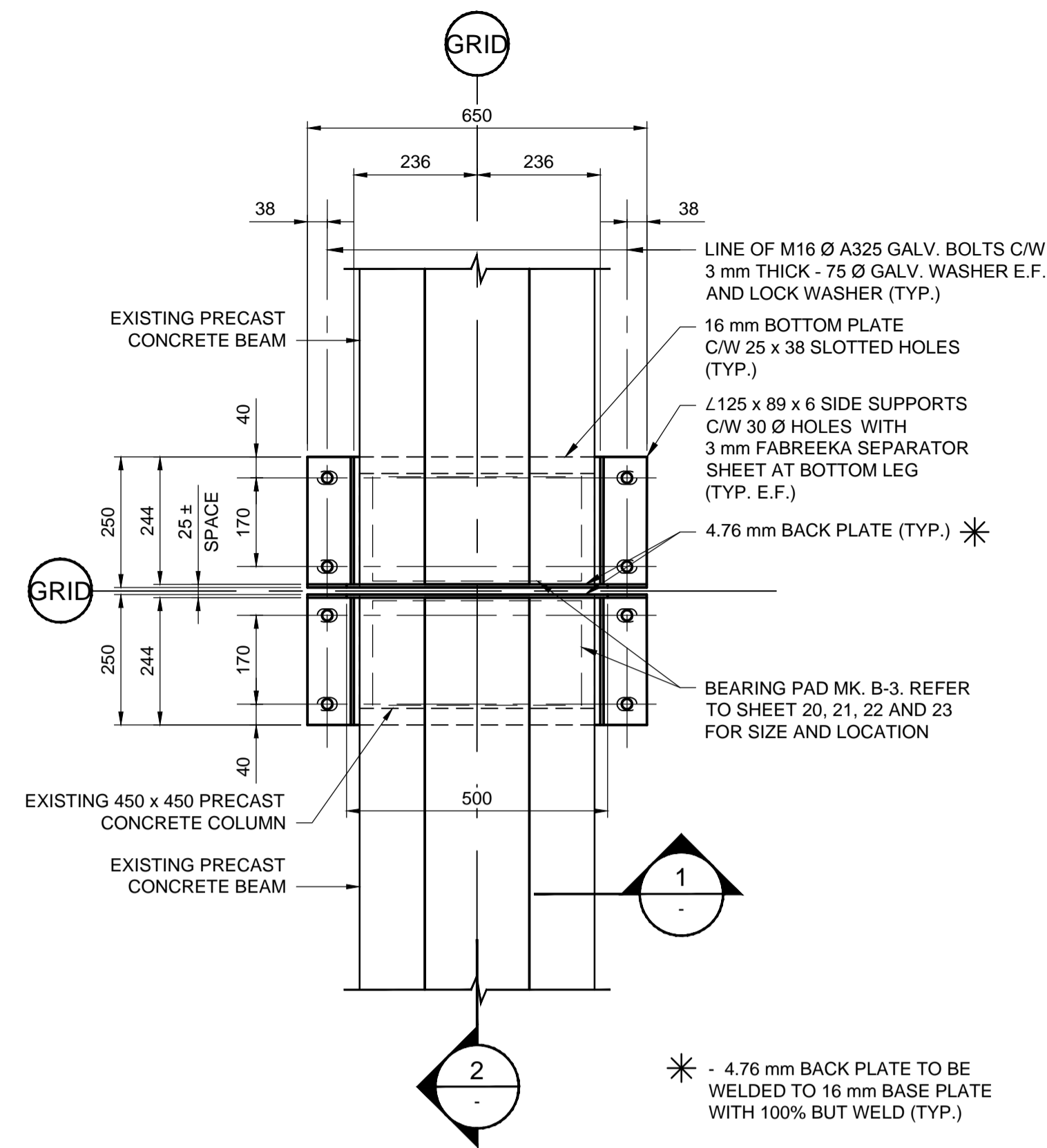


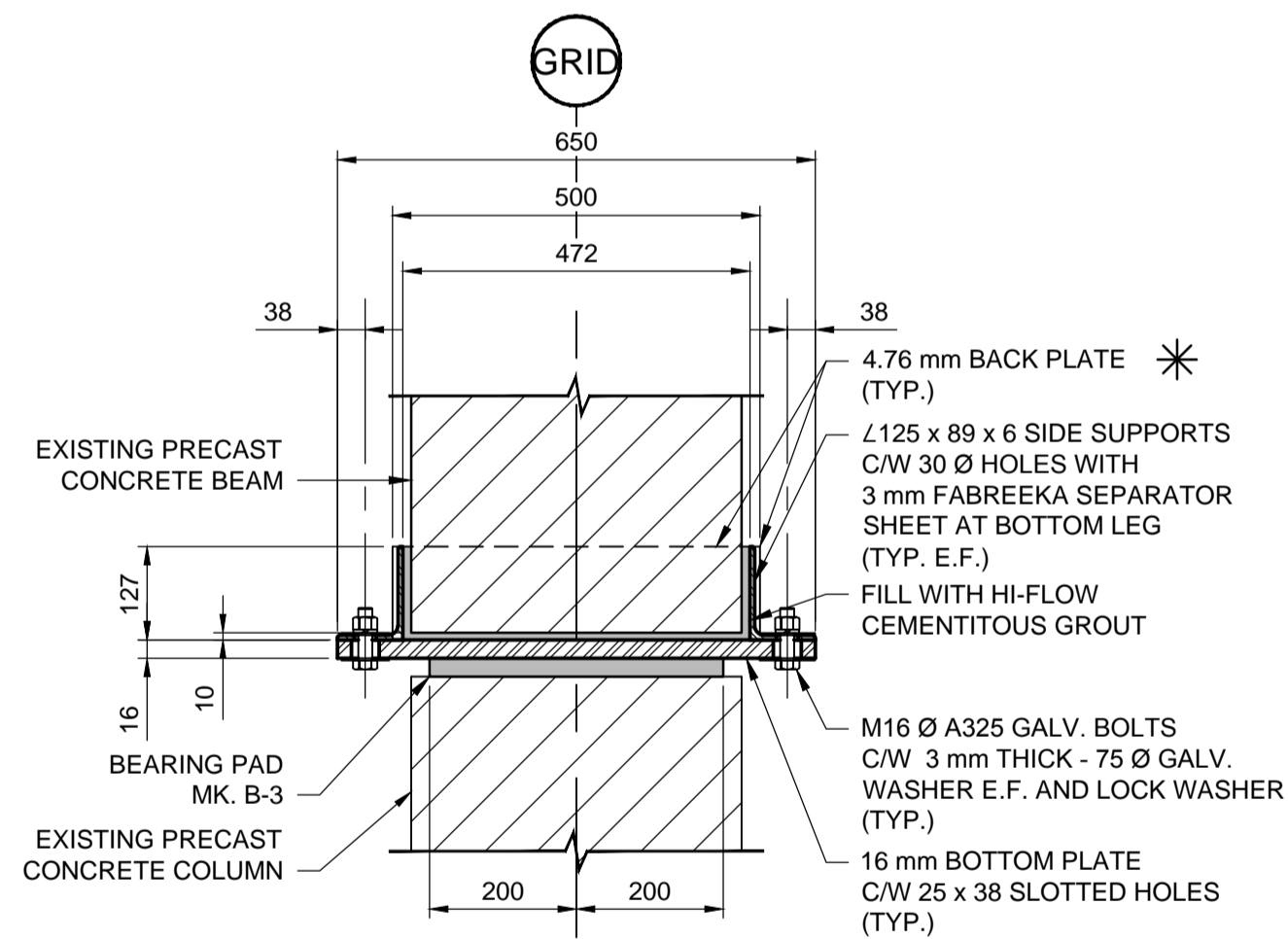
BEARING PLATE MARK P-3 INSTALLATION AND ASSEMBLY - CONSTRUCTION PROCEDURE NOTES:

- CLEAN EXPOSED BEAM ENDS, SIDES, AND BOTTOMS BY SANDBLASTING TO REMOVE OLD COATINGS AND SURFACE CONTAMINANTS EXPOSING THE FINE AGGREGATE.
- JACK EXISTING BEAM SIMULTANEOUSLY 75 - 100 mm ABOVE COLUMN TOP. NO TWO ADJACENT DOUBLE COLUMNS ON THE SAME BEAM LINE SHALL BE JACKED AND SUSPENDED AT THE SAME TIME. JACKING FRAMES SAFE CAPACITY TO BE 50 TONNES (490 kN) PER BEAM AND DESIGNED TO TRANSFER LOADS TO THE FOUNDATION PILING.
- JACKING FRAME SHALL BE DESIGNED BY A STRUCTURAL PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
- SEALED DESIGN DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO COMMENCING OF THE WORK IN ACCORDANCE WITH THE SPECIFICATIONS.
- REMOVE EXISTING BEARING PADS AND WIRE BRUSH CLEAN THE TOP OF THE COLUMN AND UNDERSIDE OF THE BEAM AT THE BEARING AREA.
- INSTALL AND BLOCK BEARING PLATES SO THERE IS A 10 mm GAP AT THE CLOSEST BOTTOM POINT OF EITHER OF THE TWO BEAMS. BLOCKING TO ENSURE BOTH BEARING PLATES ARE EQUIDISTANT AND PARALLEL TO THE COLUMN TOP SURFACE.
- INSTALL SIDE ANGLES COMPLETE WITH A 3 mm FABREEKA SHEET UNDER THE BEARING LEG. ANGLES TO BE BOLTED IN PLACE LEAVING A MINIMUM 6 - 10 mm GAP BETWEEN THE BEAM SIDES AND BEARING ANGLE VERTICAL LEG.
- SEAL THE CONTACT POINT BETWEEN THE STEEL ANGLE BEARING LEG AND THE STEEL BEARING PLATE WITH CLEAR SILICONE CAULKING.
- SEAL OPEN BEAM END BOTTOM AND SIDES TO TOP OF SIDE ANGLES WITH RODIFOAM RODS.
- COMPLETELY FILL THE ANNULAR SPACE BETWEEN THE CONCRETE BEAM AND STEEL BEARING PLATE ASSEMBLY WITH HI-FLOW CEMENTITIOUS GROUT AND MIXED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. START AT THE LOW SIDE TO ENSURE NO AIR IS TRAPPED.
- AFTER GROUT HAS REACH 35 MPa, AS SPECIFIED IN THE CONTRACT SPECIFICATIONS. REMOVE BLOCKING, TEMPORARY SEALS AND CLEAN COLUMN TOP. INSTALL BEARING PADS AND LOWER BOTH BEAMS ONTO BEARING PADS.
- REPAIR EXISTING BEAM SPALLS AS DETAILED. REFER TO SHEET 13 FOR LOCATIONS AND REPAIR PROCEDURES. PROTECT BEARINGS AND BEARING PADS FROM ANY SPILLS OR DAMAGE DURING THIS OPERATION.
- SHOULD NEW BEAM SPALLS DEVELOP DURING THIS OPERATION, INFORM THE CONTRACT ADMINISTRATOR IMMEDIATELY AND REPAIR IN ACCORDANCE WITH THE SPECIFICATIONS.



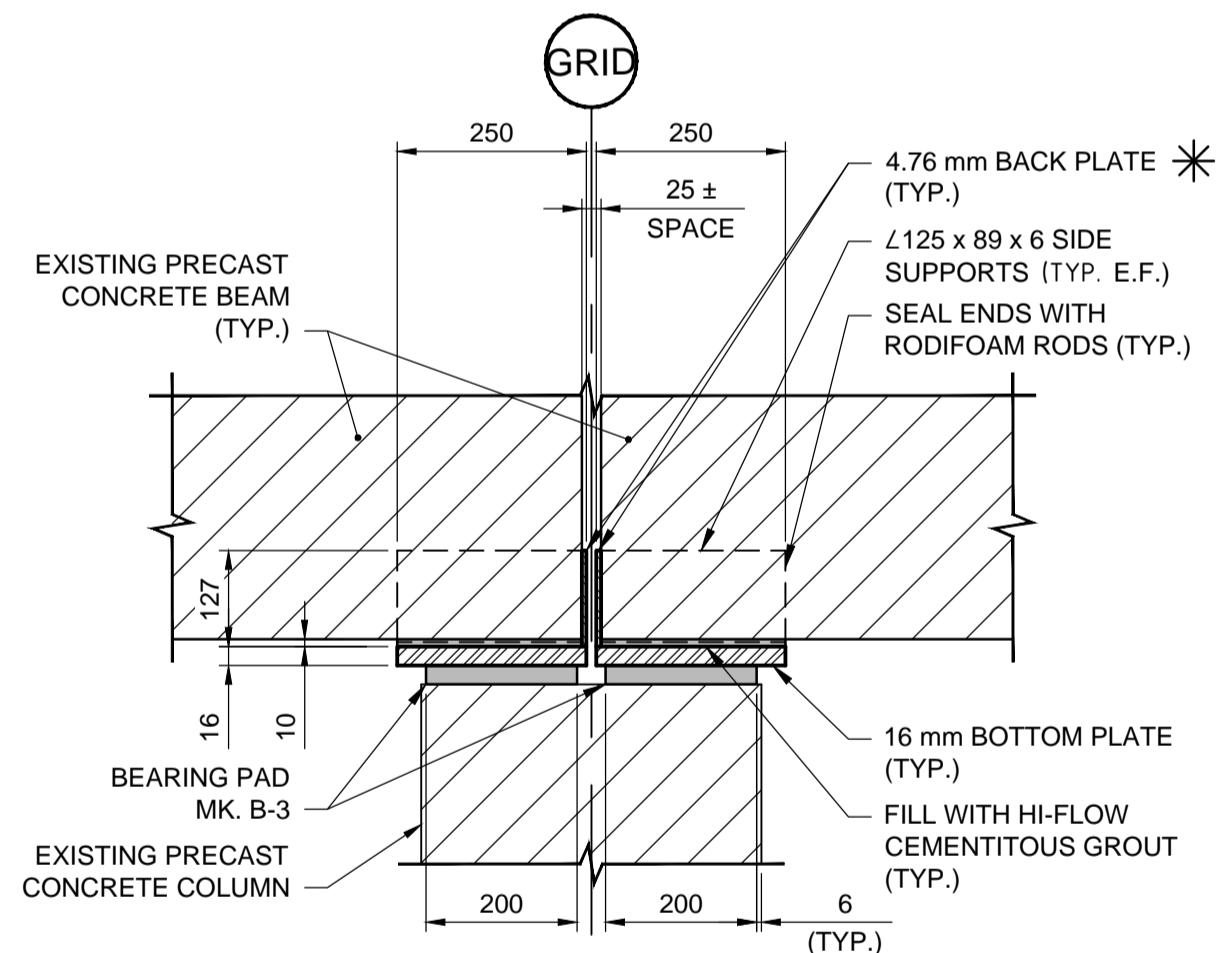
* - 4.76 mm BACK PLATE TO BE WELDED TO 16 mm BASE PLATE WITH 100% BUT WELD (TYP.)

DETAIL 1:10
 BEARING PLATES AT INTERIOR COLUMN MARK P-3

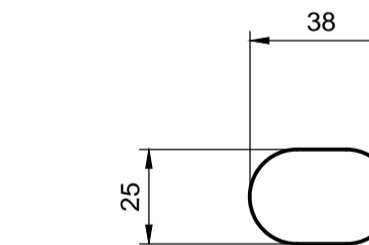


* - 4.76 mm BACK PLATE TO BE WELDED TO 16 mm BASE PLATE WITH 100% BUT WELD (TYP.)

SECTION 1 1:10



SECTION 2 1:10



DETAIL 3 1:2
 TYPICAL SLOTTED HOLE

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

DRAFT

APEGM
 Certificate of Authorization
 Dillon Consulting Limited (MB)
 No. 1789 Date: 2015-11-20

| | | | |
|--|------|-----|--|
| LOCATION APPROVED UNDERGROUND STRUCTURES | | N/A | |
| 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. | | | |

| | | | |
|-------------------------------|------------|------|----|
| B.M. ELEV. | | | |
| CONSTRUCTION COMPLETION DATE: | | | |
| CHECKED BY: | DRA | | |
| APPROVED BY: | SSR | | |
| DESIGNED BY: | FAK | | |
| DRAWN BY: | TLK | | |
| SCALE: | AS NOTED | | |
| HORIZONTAL | | | |
| VERTICAL | | | |
| 1 ISSUED FOR TENDER | 2015 11 20 | SSR | |
| NO. | REVISIONS | DATE | BY |
| | | | |

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|---------------------------|---------------|---------------------|
| RELEASED FOR CONSTRUCTION | DATE | 2015 11 20 |
| CONSULTANT DRAWING NUMBER | 14-1411-S-122 | |
| SHEET | OF | CITY DRAWING NUMBER |
| 30 | 47 | 1-0650R-S0020-001 |

DILLON CONSULTING

ENGINEER'S SEAL

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 ENGINEERING DIVISION

WILKES RESERVOIR NORTH CELL REHABILITATION
 BEARING PLATE MARK P-3
 SECTIONS AND DETAILS
 CONSTRUCTION PROCEDURES

Winnipeg

RELEASED FOR CONSTRUCTION
 DATE | 2015 11 20 || CONSULTANT DRAWING NUMBER | 14-1411-S-122 | |
| SHEET | OF | CITY DRAWING NUMBER |
| 30 | 47 | 1-0650R-S0020-001 |

PLOT DATE: 2015 11 18

BID OPPORTUNITY: 930-2015
 CONTRACT NUMBER:

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