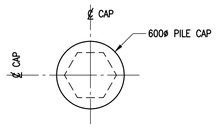
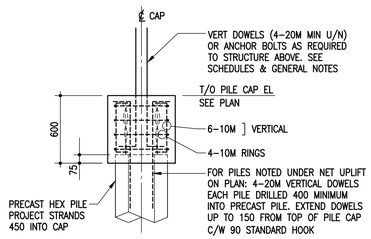
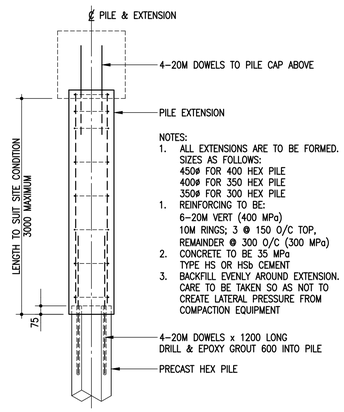


PLAN



ELEVATION

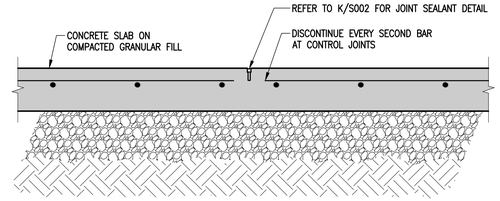
A S002 SINGLE PILE CAP DETAIL
1:25



NOTES:
1. ALL EXTENSIONS ARE TO BE FORMED. SIZES AS FOLLOWS:
   450ø FOR 400 HEX PILE
   400ø FOR 350 HEX PILE
   350ø FOR 300 HEX PILE
1. REINFORCING TO BE:
   6–20M VERT (400 MPa)
   10M RINGS; 3 @ 150 O/C TOP, REMAINDER @ 300 O/C (300 MPa)
2. CONCRETE TO BE 35 MPa TYPE HS OR HSb CEMENT
3. BACKFILL EVENLY AROUND EXTENSION. CARE TO BE TAKEN SO AS NOT TO CREATE LATERAL PRESSURE FROM COMPACTION EQUIPMENT

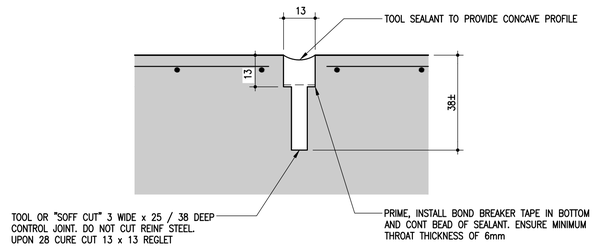
B S002 PRECAST PILE EXTENSION DETAIL
1:25

- PILE EXTENSIONS TO BE REVIEWED AND APPROVED BY ENGINEER PRIOR TO CONSTRUCTION ON A CASE BY CASE BASIS.

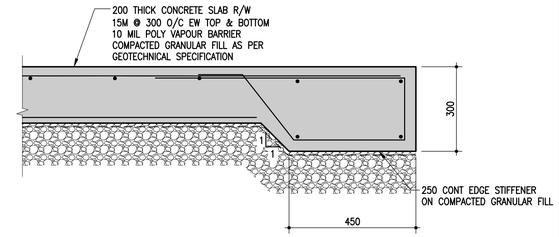


G S002 TYPICAL CONTROL JOINT DETAIL
1:10

NOTE: APPLICABLE TO SLAB ON GRADE AND UNBONDED CONCRETE TOPPINGS

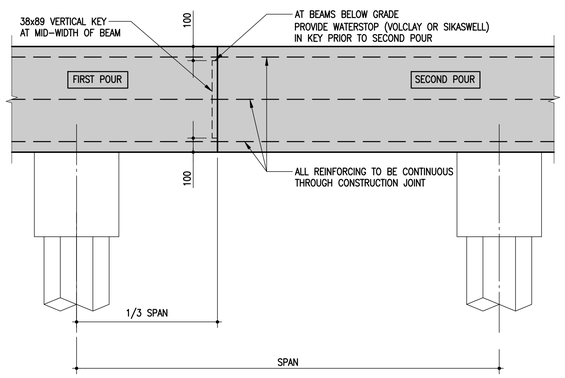


H S002 TYPICAL JOINT SEALANT DETAIL
NTS

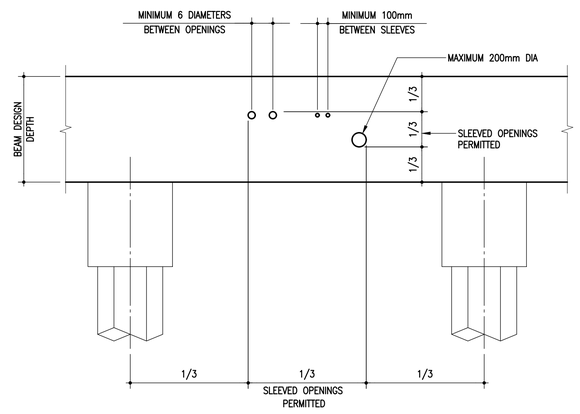


J S003 EMERGENCY GENERATOR CONCRETE PAD
1:10

- CONFIRM LOCATION WITH ARCHITECTURAL DRAWINGS.
- COORDINATE SIZE WITH GENERATOR REQUIREMENTS.

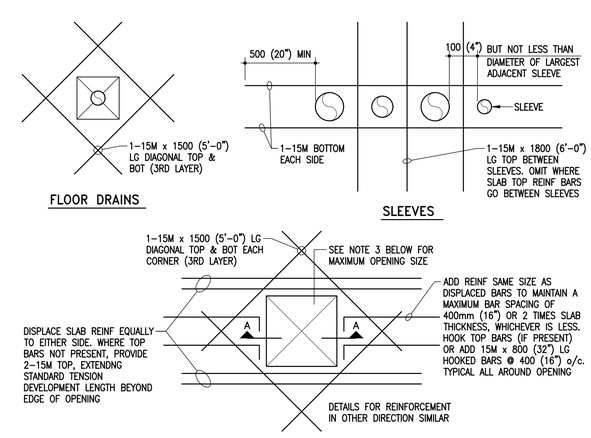


C S002 GRADE BEAM CONSTRUCTION JOINT DETAIL
1:20



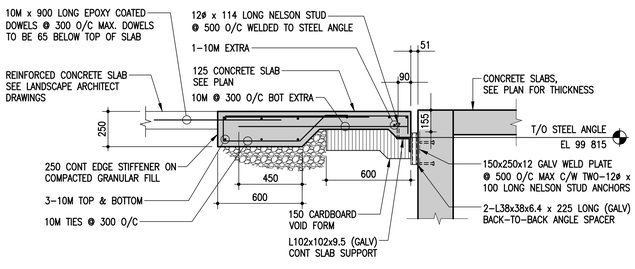
D S002 BEAM SLEEVE DIAGRAM
1:20

1. ALL BEAM SLEEVE OPENINGS SHALL BE LOCATED WITHIN THE MIDDLE 1/3 OF BEAM DESIGN HEIGHT AND THE MIDDLE 1/3 SPAN TO THE APPROVAL OF THE CONSULTANT.
2. OPENINGS SHALL BE FORMED IN BEAM PRIOR TO CONCRETE PLACEMENT.
3. MECHANICAL AND ELECTRICAL CONTRACTORS TO PROVIDE SLEEVING SHOP DRAWINGS TO THE STRUCTURAL CONSULTANT PRIOR TO THE START OF CONSTRUCTION. ALL SERVICE SLEEVES SHALL BE INDICATED WITH LOCATIONS AND ELEVATIONS GIVEN.

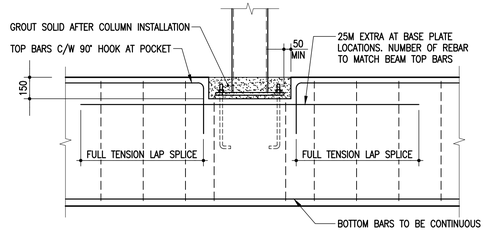


K S002 REINFORCING AT OPENINGS IN STRUCTURAL SLABS
1:20

NOTES:
1. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, REINFORCE AT OPENINGS AS PER DETAILS ABOVE.
2. DO NOT MAKE OPENINGS LARGER THAN THE MAXIMUM DIMENSIONS NOTED ABOVE WITHOUT PRIOR APPROVAL FROM THE CONSULTANT OR UNLESS NOTED ON STRUCTURAL DRAWINGS.
3. RESTRICTIONS ON OPENING SIZE AND LOCATION:
   a) ONE–WAY SLABS & TWO–WAY SLABS – MAXIMUM OPENING SIZE IS 750mm (30") SQUARE.
   b) FLAT SLABS AND FLAT PLATES:
      i) MAKE NO OPENINGS WITHIN TWICE THE SLAB DEPTH FROM THE FACE OF A COLUMN OR EDGE OF A CAPITAL EXCEPT AS NOTED ON THE STRUCTURAL DRAWINGS.
      ii) MAXIMUM OPENING SIZES:
         - IN AREAS COMMON TO 2 COLUMN STRIPS – NOT GREATER THAN 1/8 OF THE SMALLER OF THE TWO COLUMN STRIP WIDTHS.
         - IN AREAS COMMON TO ONE COLUMN STRIP & ONE MIDDLE STRIP – NOT GREATER THAN 1/4 OF THE SMALLER OF THE TWO STRIP WIDTHS.
         - IN AREAS COMMON TO 2 MIDDLE STRIPS – NOT GREATER THAN 1/2 OF THE SMALLER OF THE TWO MIDDLE STRIP WIDTHS.



E S002 TYPICAL ENTRANCE SLAB DETAIL
1:20



F S002 TYPICAL COLUMN POCKET DETAIL
1:20

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2022-0020

Crosier Kilgour & Partners Ltd.
CONSULTING STRUCTURAL ENGINEERS

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Crosier Kilgour & Partners Ltd.
No. 235

NO.	DATE	REVISION / ISSUANCE
00	2023.02.03	ISSUED FOR CONSTRUCTION

Seal

PROVINCE OF MANITOBA
BERVANAKIS
Member
S8311
2023-02-02
REGISTERED PROFESSIONAL ENGINEER

Project
WFPS STATION 9

1083 AUTUMNWOOD DRIVE

Sheet Title
TYPICAL DETAILS

Project No. 2150

Sheet S002

CIBINEL - Arch D - 24" X 36"