

| BASE PLATE SCHEDULE | |
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| BASE PLATE TAG | DIMENSIONS |
| B.P. 1 | 350 x 350 x 20 |
| B.P. 2 | 300 x 300 x 20 |

BASE PLATE SCHEDULE 3 S3

| COLUMN SCHEDULE | |
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| COLUMN TAG | SIZE |
| C1 | W360x58 |
| C2 | W200x36 |
| C3 | W200x46 |

COLUMN SCHEDULE 4 S3

- ALL STRUCTURAL STEEL TO BE IN ACCORDANCE WITH CSA STANDARD G40.21M GRADE 350W (350 MPa), EXCEPT HSS MAY BE IN ACCORDANCE WITH ASTM A500.
- FABRICATION AND ERECTION SHALL CONFORM TO CSA STANDARD S16 AND THE STRUCTURAL STEEL SECTION OF THE SPECIFICATIONS FOR THIS CONTRACT.
- MISCELLANEOUS STEEL SHALL CONFORM TO CAN/CSA G40.21M GRADE 300W.
- PROVIDE ALL REQUIRED GUSSETS, STIFFENERS, FILLERS AND BATTEN PLATES.
- MAKE NO HOLES IN ANY STRUCTURAL STEEL MEMBER OTHER THAN THOSE SHOWN ON REVIEWED SHOP DRAWINGS WITHOUT APPROVAL BY THE DEPARTMENTAL REPRESENTATIVE.
- THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL STEEL CONNECTIONS, TYPE OF CONNECTIONS SHOWN ON THE DRAWINGS MAY BE MODIFIED BY THE FABRICATOR, PROVIDED THAT ALL THE LOADS ARE ACCOUNTED FOR AND THE CONNECTION DOES NOT INTERFERE WITH OTHER BUILDING ELEMENTS. PROPOSED CONNECTIONS TO BE DISPLAYED ON FABRICATOR ERECTION DRAWINGS, SUBJECT TO APPROVAL BY THE DEPARTMENTAL REPRESENTATIVE.
- PROVIDE ALL NECESSARY DETAILS, MATERIALS AND CONNECTIONS IN ACCORDANCE WITH CISC STANDARD DETAILS.
- ALL FIELD CONNECTIONS, UNLESS INDICATED ON THE DESIGN DRAWINGS, ARE TO BE BOLTED. ALL SHOP CONNECTIONS MAY BE EITHER BOLTED OR WELDED. ALL WELDING ELECTRODES TO BE E480 XX SERIES.
- CROSS BRACING AND MOMENT CONNECTION DETAILS TO BE SHOWN ON ERECTION DRAWINGS SUBMITTED FOR REVIEW. THESE ERECTION DRAWINGS ARE TO BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN NEWFOUNDLAND & LABRADOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING REQUIRED FOR STEEL FRAME ALIGNMENT AND BRACING.
- CONNECT ALL BRACING MEMBERS FOR LOADS INDICATED PLUS 20%.
- HOLES IN DECK:
 - OPENINGS OF LESS THAN 150mm NEED NOT BE REINFORCED.
 - REINFORCE OPENINGS FROM 150 TO 300mm ACROSS FLUTES WITH COLD FORMED CHANNEL MEMBERS.
 - REINFORCE ALL OTHER OPENINGS AS PER DRAWINGS.
- POST TENSION ALL CROSS BRACING TO 5% OF TENSILE RESISTANCE OF BRACING MEMBER.
- PROVIDE 75x75x6.4 ANGLE AROUND COLUMNS FOR DECK SUPPORT IF REQUIRED.
- DO NOT PAINT STEEL ENCASED IN CONCRETE ENCLOSURE.
- ANCHOR BOLTS TO BE A MINIMUM 300W GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- ALL BOLTS IN BEARING TYPE JOINTS TO BE PRE TENSIONED TO A MINIMUM TENSION OF 50kN. BOLTS IN SLIP CRITICAL JOINTS TO BE TENSIONED TO THE VALUE GIVEN IN TABLE 7 OF CSA-16.1 FOR GIVEN BOLT SIZE.
- AT SLIP JOINTS PLACE BOLTS IN CENTER OF HOLE, HAND TIGHTEN AND TACK WELD NUT TO BOLT.
- PROVIDE END CAP PLATES TO ALL HSS MEMBERS. PLATES TO HAVE THICKNESS AT LEAST EQUAL TO WALL THICKNESS OF THE HSS.
- INSPECTION AND TESTING OF STRUCTURAL STEEL FRAMEWORK (SUCH AS, BUT NOT LIMITED TO, BOLT TORQUE, WELD QUALITY, ALIGNMENT) SHALL BE IN ACCORDANCE WITH CAN/CSA-S16 AND CSA W59 BY A QUALIFIED INSPECTION COMPANY.
- SHOP SPICES IN STEEL MEMBERS WILL BE PERMITTED ONLY FOLLOWING APPROVAL OF ENGINEER. SPICES WILL REQUIRE NDE TESTING.
- CLEAN, PREPARE SURFACES AND SHOP PRIME STRUCTURAL STEEL IN ACCORDANCE WITH CAN/CSA-S16.
- TOUCH UP SHOP PRIMER TO BOLTS, WELDS, AND BURNED AND SCRATCHED SURFACES AT COMPLETION OF ERECTION.
- SHOP PAINT TO CISC/CPMA 2-75.

STRUCTURAL STEEL NOTES 5 S3

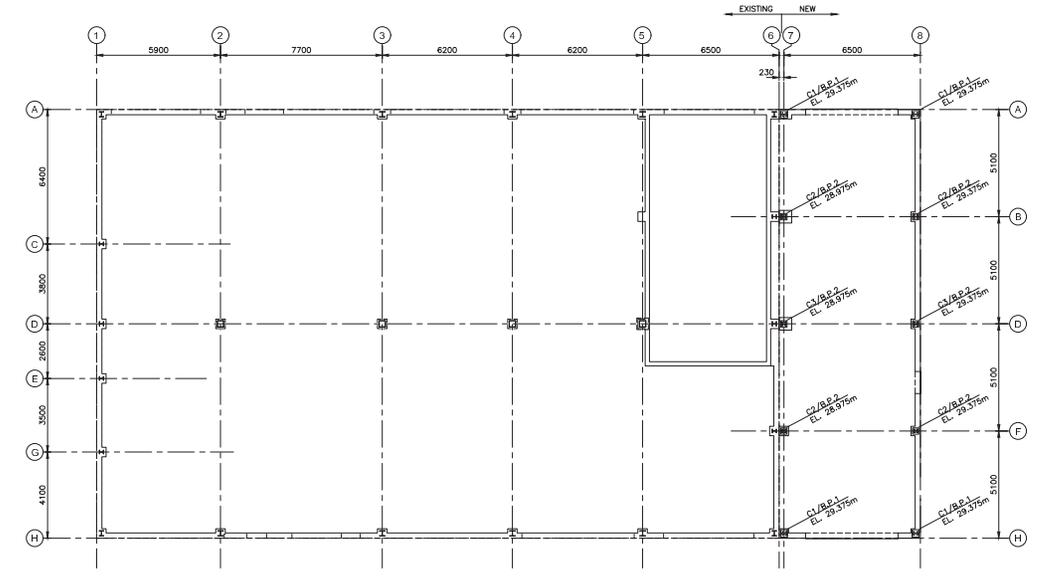
LEGEND:

..... COLUMN & BASE PL. TYPE
 EST. EL. u/s of BASE PL.±

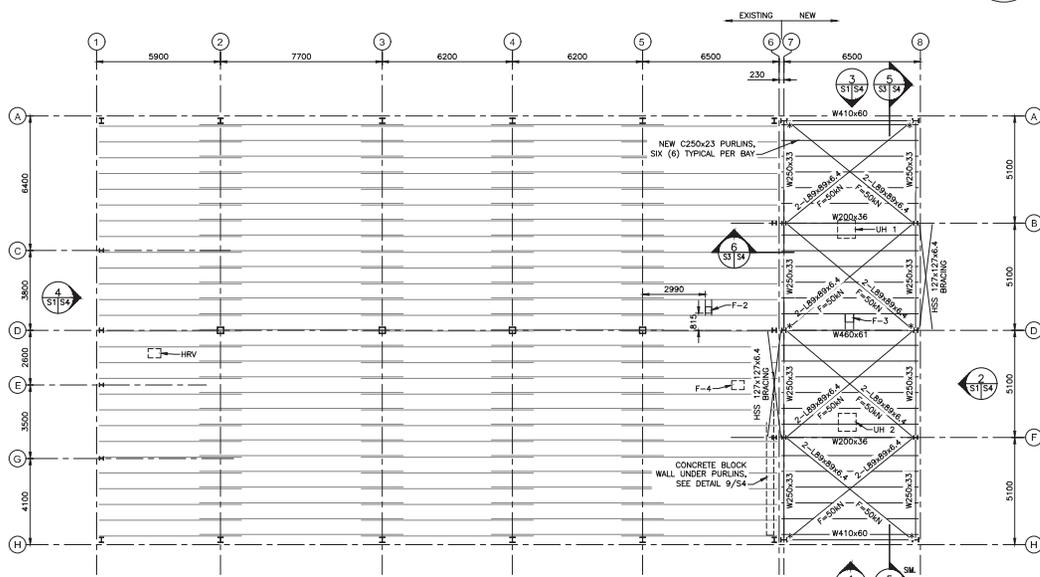
..... C1/B.P.1
 C2/B.P.2

* - FULL MOMENT CONNECTION

- FOR PIER/BASEPLATE DETAILS REFER TO DRAWING S5.
- FRAME ROOF OPENINGS FOR F-2 AND F-3 WITH C150x12 CHANNEL ALL AROUND. LOCATION AS SHOWN ON PLAN. COORDINATE WITH MECHANICAL AND EQUIPMENT SUPPLIER FOR SIZING.
- FOR ALL MECHANICAL UNITS TO BE SUSPENDED FROM STRUCTURE COORDINATE WITH MECHANICAL AND EQUIPMENT SUPPLIER, APPROXIMATE WEIGHT FOR REQUIRED UNITS AS LISTED:
 - UH-1 - 35 kg
 - UH-2 - 35 kg
 - HRV - 25 kg
 - F-4 - 85 kg
- FOR ALL MECHANICAL PENETRATIONS THROUGH EXISTING/NEW CONCRETE/MASONRY WALLS, REFER TO LINTEL DETAIL ON DRAWING S4. COORDINATE WITH MECHANICAL FOR OPENING SIZE AND LOCATION.
- SUPERIMPOSED DESIGN LOADS:
 - ROOF SNOW LOAD - 4.26 kPa
 - DEAD LOAD - 0.80 kPa
 - NET UPLIFT - 2.30 kPa
 - LATERAL WIND LOAD - 2.00 kPa
- IMPORTANCE CATEGORY - NORMAL
- INTERNAL PRESSURE CATEGORY - 3
- GENERAL CONTRACTOR TO FIELD VERIFY AND COORDINATE ALL EXISTING CONDITIONS PRIOR TO FABRICATION OF STEEL. IF DISCREPANCIES EXIST NOTIFY DEPARTMENT REPRESENTATIVE.



BASE PLATE LAYOUT 1 S3



ROOF PLAN 2 S3



PROVINCE OF NEWFOUNDLAND PERMIT HOLDER CLASS "A" This Permit Allows SINC-LAVALIN Inc. to practice Professional Engineering in Newfoundland and Labrador. Permit No. as Issued by PREGO 10456 which is valid for the year 2018. ENGINEER IN RESPONSIBLE CHARGE U7261

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| C03 | RE-ISSUED FOR TENDER | 06/26/2018 | J.V. |
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project: MAINTENANCE GARAGE REHABILITATION ST. ANTHONY AIRPORT

drawing: COLUMN AND BASE PLATE LAYOUT AND ROOF PLAN

| | |
|-----------------|--------------------------|
| designed S.G. | comp |
| date 2017.05.29 | |
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S3