

A. GENERAL

- 1. STRUCTURAL REMEDIATION OF THE DAMAGED CANOPY STRUCTURE IS TO THE GENERAL INTENT OF THE 2015 NATIONAL BUILDING CODE...
2. BEFORE PROCEEDING WITH WORK, CHECK ALL THE DIMENSIONS SHOWN ON DRAWINGS AND REPORT DISCREPANCIES TO DEPARTMENTAL REPRESENTATIVE.
3. DO NOT INSTALL OPENINGS, SET INSERTS, DRILL, CUT, OR ATTACH TO STRUCTURAL FRAME WITHOUT AUTHORIZATION FROM THE DEPARTMENTAL REPRESENTATIVE...
4. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY AND FOR PROTECTION OF THE CONTENTS OF THE STRUCTURE FROM THE ELEMENTS DURING REPAIR WORK.

B. BUILDING CODES & MATERIAL DESIGN STANDARDS

- 1. NATIONAL BUILDING CODE 2015
2. CSA S16-09 LIMIT STATE DESIGN OF STEEL STRUCTURES.

C. DESIGN LOADS

- 1. DEAD LOAD: 1.0 kPa
2. LIVE LOAD: 2.0 kPa
3. SNOW LOAD: Ss = 2.4 kPa, Sr = 0.2 kPa
4. ALLOWABLE SOIL PRESSURE = 100 kPa (ASSUMED)

D. STRUCTURAL STEEL

- 1. STRUCTURAL STEEL TO CONFORM TO CAS S16
2. MATERIALS: TO CAS G40.21 UNLESS OTHERWISE NOTED, WITH THE FOLLOWING GRADES:
- PLATES: 300W
- HOLLOW STRUCTURAL SECTIONS: 350W (CLASS 'C', ASTM A1065 GRADE 50 (345MPa), OR ASTM A500 (GRADE C)
- BOLTS: ASTM F3125 GRADE A325M, UNLESS NOTED.
- W, WWF AND S SECTIONS, CHANNELS AND ANGLES: 350W, OR ASTM A992M GRADE 50 (345MPa)
3. FABRICATION, ERECTION, STRUCTURAL DESIGN, AND DETAILING OF ALL BUILDING STRUCTURAL STEEL TO BE IN ACCORDANCE WITH CAN/CSA-S16-09.
4. DO NOT CUT HOLES OR OTHERWISE MODIFY STRUCTURAL MEMBERS ON SITE.
5. IF STRUCTURAL STEEL IS IN DIRECT CONTACT WITH GROUND (I.E. COLUMN BASE IS NOT ENCASED IN CONCRETE, PROTECT WITH EPOXY PAINT).
6. PROVIDE ALL ERECTION BRACING REQUIRED TO KEEP THE STRUCTURE STABLE AND IN ALIGNMENT DURING CONSTRUCTION. TEMPORARY SHORING TO BE DESIGNED BY P.ENG. REGISTERED IN BC.
7. PROVIDE 40 MPa NON SHRINK GROUT UNDER BASE PLATES. DO NOT APPLY ANY LOADS TO THE STEELWORK BEFORE GROUT ACHIEVES SUFFICIENT STRENGTH.
8. DO NOT APPLY LATERAL LOADS TO MEMBERS UNLESS APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
9. WELD TO CSA W59 BY FABRICATORS QUALIFIED TO CSA W47.1
10. WELD REINFORCEMENT STEEL TO CSA W186. USE WELDABLE REINFORCEMENT TO CSA G30.18 GRADE 400W.
11. TOUCH UP ALL FIELD WELDS WITH PRIMER AFTER SLAG HAS BEEN REMOVED.
12. PAINT STEEL SURFACE WITH ONE COAT OF EXTERIOR APPROVED PRIMER FOR ALL STEEL SURFACES EXPOSED DIRECTLY TO WEATHER AND FOR STEEL IN UNHEATED BUT COVERED AREAS SUCH AS CANOPIES. STEEL EXPOSED TO VIEW THAT WILL BE TOP COATED REQUIRES A PRIMER TO CISCC/PMA 2-75, REFER TO SPECIFICATIONS. PAINT COLOUR TO MATCH EXISTING.
13. REVIEW OF SHOP DRAWINGS BY DEPARTMENTAL REPRESENTATIVE IS ON A SAMPLING BASIS. FOR GENERAL CONFORMITY WITH STRUCTURAL CONTRACT DOCUMENTS. IT IS NOT A DETAILED CHECK AND MUST NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR OF THEIR RESPONSIBILITY TO MAKE THE WORK ACCURATE AND IN CONFORMITY WITH ALL THE CONTRACT DOCUMENTS, TO REVIEW SHOP DRAWINGS AND TO COORDINATE WORK OF INTERFACING TRADES AND MANUFACTURE OF INTERFACING PRODUCTS.

E. CONCRETE REPAIR

- 1. REPAIRS INCLUDE CONCRETE REMOVAL, SURFACE PREPARATION, REPLACEMENT OF DETERIORATED REBAR IF NECESSARY, AND REINSTATEMENT WITH A CEMENTITIOUS REPAIR MATERIAL.
2. SLAB SURFACE REPAIRS AND FULL THICKNESS REPAIRS SHALL BE REPAIRED USING REPAIR MORTAR OR A READY MIX CONCRETE. THE FOLLOWING PRODUCTS HAVE BEEN PRE-APPROVED FOR USE:
- TARGET FLOW CONCRETE WITH 5% SILICA FUME - MASTERMATCO S 466 CI
- SIKATOP 122 PLUS - SIKAMONOTOP 622
3. CONCRETE REMOVAL
1. ALL DETERIORATED AND/OR DELAMINATED CONCRETE SHALL BE REMOVED BY CHIPPING UNTIL A SOUND SUBSTRATE IS ACHIEVED. JACKHAMMER SIZE SHALL NOT EXCEED 15 LBS.
2. ALTERNATIVELY, THE CONTRACTOR MAY CHOOSE TO USE HIGH PRESSURE WATER BLASTING TO REMOVE CONCRETE IN PLACE OF OR IN CONJUNCTION WITH CHIPPING.
3. INFORM THE DEPARTMENTAL REPRESENTATIVE WHEN CONCRETE REMOVAL IS COMPLETED TO SCHEDULE FIELD REVIEWS. PROVIDE AT LEAST 48 HOURS NOTICE TO THE DEPARTMENTAL REPRESENTATIVE.
4. SURFACE PREPARATION
1. AFTER REMOVAL OF EXISTING CONCRETE, EXPOSED CONCRETE AND REBAR SURFACES SHALL BE PREPARED TO ACCEPT THE REPAIR MATERIAL.
2. PREPARED CONCRETE SURFACES SHALL HAVE A ROUGH, DUST-FREE AND OPEN TEXTURE MEETING ICRI CONCRETE SURFACE PROFILE CSP 5 MINIMUM.
3. PRIOR TO PLACING NEW CONCRETE, THE PREPARED SURFACE SHALL BE THOROUGHLY WASHED TO REMOVE ALL DUST, LAITANCE, GREASE AND CONTAMINATION.
4. CONCRETE SURFACES SHALL BE BROUGHT TO A SATURATED SURFACE DRY (SSD) CONDITION PRIOR TO APPLYING THE REPAIR MATERIAL.
5. PREPARED CONCRETE SURFACES SHALL SUPPORT A MINIMUM BOND STRENGTH TO NEW CONCRETE OF 0.9 MPA WHEN TESTED IN ACCORDANCE WITH CSA-A23.2-08.
6. THE CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE DEPARTMENTAL REPRESENTATIVE TO REVIEW THE SURFACE PREPARATION. THE CONTRACTOR SHALL NOT COMMENCE WITH REPAIR MATERIAL PLACEMENT WITHOUT APPROVAL BY THE DEPARTMENTAL REPRESENTATIVE.

5. APPLICATION OF REPAIR MATERIAL

- 1. DO NOT PLACE REPAIR MATERIAL UNTIL THE DEPARTMENTAL REPRESENTATIVE HAS REVIEWED AND APPROVED THE SUBSTRATE SURFACE PREPARATION.
2. CONCRETE SUBSTRATE SHALL BE SATURATED SURFACE DRY (SSD) AT THE TIME OF PATCHING UNLESS NOTED OTHERWISE BY THE MANUFACTURER OF THE REPAIR MATERIAL.
3. MIX AND APPLY THE REPAIR MORTAR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
4. MIX AND PLACE MATERIAL ONLY AT AMBIENT TEMPERATURES WHICH ARE IN ACCORDANCE WITH THE MANUFACTURER'S ALLOWANCES FOR THE PRODUCT.
5. FOR TROWEL-APPLIED MORTAR, ENSURE FULL ENCAPSULATION OF THE REBAR. APPLY MORTAR IN LIFTS NOT EXCEEDING THE MANUFACTURER'S RECOMMENDATIONS TO AVOID SAGGING AND DEBONDING. WHEN APPLYING MORTAR IN LIFTS, MAINTAIN SURFACE IN A CONDITION WHICH WILL AVOID DEBONDING. EXISTING COAT TO BE MAINTAINED IN SSD CONDITION PRIOR TO ADDITIONAL PLACEMENT.
6. FOR READY MIX CONCRETE, COMPLETE PLACEMENT OF MATERIAL WITHIN 2.0 HOURS OF BATCHING, VIBRATE UNTIL FULLY CONSOLIDATED, AND SCREED TO ORIGINAL SURFACE PROFILE. FOR FULL THICKNESS REPAIRS, FORMWORK SHALL BE REQUIRED TO PROVIDE A FINISHED SURFACE MATCHING THE SLAB SOFFIT PROFILE.
7. STRIKE OFF EXCESS MORTAR/CONCRETE TO MATCH THE ORIGINAL SURFACE PROFILE.

6. FINISHING

- 1. FOR TROWEL-APPLIED SURFACES, APPLY A SMOOTH STEEL TROWEL FINISH. CARE SHALL BE TAKEN TO ENSURE TEARING OF SURFACE DOES NOT OCCUR DURING FINISHING. THE ADDITION OF WATER TO THE SPRAYED SURFACE TO FACILITATE FINISHING IS PROHIBITED.
2. FOR FORM AND POUR REPAIRS, REMOVE ANY LOOSE CONCRETE ALONG THE EDGES OF REPAIRS. USE FORM PLYWOOD FOR FORMING. REMOVE NAILS FOR SECURING FORMS FROM CONCRETE AFTER FORM REMOVAL. GRIND SHARP EDGES TO MATCH EXISTING PROFILE OF THE SECTION.
3. GRIND SHARP EDGES TO MATCH EXISTING PROFILE OF THE SECTION.

7. CURING AND PROTECTION

- 1. FOR FORMED SURFACES, LEAVE FORMS IN PLACE FOR A MINIMUM OF THREE (3) DAYS OR UNTIL AT LEAST 70% OF THE REQUIRED COMPRESSIVE STRENGTH HAS DEVELOPED.
2. MOIST CURE FOR SEVEN DAYS OR APPLY A CURING COMPOUND IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

F. CAST IN PLACE CONCRETE

- 1. CONTRACTOR AND CONCRETE SUPPLIER TO ENSURE THAT PLASTIC AND HARDENED MIX PROPERTIES MEET SITE REQUIREMENTS FOR PLACING, FINISHING AND THE SPECIFIED PERFORMANCE REQUIREMENTS.
2. CONCRETE SUPPLIER TO BE CERTIFIED BY THE BC READY MIXED CONCRETE ASSOCIATION.

- 3. CEMENT TO BE PORTLAND CEMENT TYPE GU UNLESS NOTED OTHERWISE OR REQUIRED BY EXPOSURE CLASS.
4. CONCRETE TO BE NORMAL DENSITY (MIN. 2300 kg/m3) UNLESS NOTED OTHERWISE.
5. NOMINAL MAXIMUM SIZE OF COARSE AGGREGATE TO BE 20 (3/4") UNLESS NOTED OTHERWISE.
6. UNLESS NOTED OTHERWISE, CONCRETE TO BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

Table with 4 columns: ELEMENT, COMPRESSIVE STRENGTH (MPa) AT 28 DAYS, EXPOSURE CLASS, SPECIAL REQUIREMENTS & REMARKS. Row 1: SLAB-ON-GRADE (EXTERIOR), 35MPa, C-1, (blank).

- 7. REFER TO CSA A23.1 FOR THE MAXIMUM WATER/CEMENT RATIO, MINIMUM COMPRESSIVE STRENGTH, AIR CONTENT, CURING REQUIREMENTS, CHLORIDE ION PENETRABILITY AND ALTERNATE CEMENT TYPES TO MEET THE REQUIREMENTS FOR THE NOTED EXPOSURE CLASS.
8. WHERE REQUIRED BY SPECIFICATIONS, PROVIDE MINIMUM AMOUNT OF SUPPLEMENTAL CEMENTING MATERIALS SPECIFIED FOR THE OVERALL PROJECT.
9. PLACE CONCRETE AS CLOSE AS POSSIBLE TO FINAL LOCATION TO AVOID SEGREGATION. VIBRATE ALL CONCRETE.
10. PROTECT CONCRETE FROM FREEZING. DO NOT PLACE CONCRETE AGAINST FROZEN GROUND. USE COLD WEATHER CONCRETING METHODS IN ACCORDANCE WITH CSA-A23.1.
11. PROTECT CONCRETE FROM EXCESSIVE HEAT AND DRYING. USE HOT WEATHER CONCRETING METHODS IN ACCORDANCE WITH CSA-A23.1.
12. FOR SLABS-ON-GRADE OR UNBONDED CONCRETE TOPPING, LOCATE ALL CONDUITS, PIPES, OR HEATING CABLES EMBEDDED IN CONCRETE CLEAR OF THE TOP ONE THIRD OF THE SLAB THICKNESS TO AVOID DAMAGE DURING SAWCUTTING.

G. CONCRETE REINFORCEMENT

- 1. WHERE TWO BARS OF DIFFERENT SIZE ARE LAPPED IN TENSION, SPLICE LENGTH TO BE EQUAL TO THE SMALLER BAR'S TENSION LAP SPLICE, OR TO THE LARGER BAR'S TENSION DEVELOPMENT LENGTH, WHICHEVER IS LONGER.
2. PROVIDE ADDITIONAL SUPPORT BARS AS REQUIRED TO ADEQUATELY SUPPORT AND SECURE ALL REINFORCEMENT AND PREVENT MOVEMENT WHEN PLACING CONCRETE.
3. PROVIDE SUFFICIENT CHAIRS TO REINFORCING TO MAINTAIN SPECIFIED CONCRETE COVER.
4. ALL REINFORCING TO BE CLEAN, FREE OF LOOSE SCALE, OIL, DIRT, RUST, AND ANY OTHER FOREIGN COATING THAT AFFECT BONDING CAPACITY.
5. MINIMUM CLEAR SPACING BETWEEN ADJACENT BARS TO BE AT LEAST 1.4 TIMES THE BAR DIAMETER OR 1.4 TIMES THE NOMINAL MAXIMUM SIZE OF THE COARSE AGGREGATE, WHICHEVER IS MORE.
6. WHERE PARALLEL REINFORCEMENT IS PLACED IN TWO OR MORE LAYERS, POSITION BARS IN UPPER LAYER DIRECTLY ABOVE THE BARS IN LOWER LAYER, MAINTAINING THE MINIMUM CLEAR SPACING BETWEEN LAYERS AS SPECIFIED ABOVE.
7. UNLESS NOTED OTHERWISE ON DRAWINGS MINIMUM CONCRETE COVER TO PRINCIPAL REINFORCEMENT TO BE AS FOLLOWS:

Table with 4 columns: ELEMENT, NOT EXPOSED TO VEHICLE TRAFFIC (PROTECTED/EXPOSED), EXPOSED TO VEHICLE TRAFFIC. Rows include REBAR REINFORCED NON STRUCTURAL SLABS ON GRADE CAST OVER VAPOUR BARRIER and REBAR REINFORCED NON STRUCTURAL SLABS ON GRADE WITHOUT VAPOUR BARRIER.

G. CONCRETE REINFORCEMENT CONT'D

- NOTES:
1. "PROTECTED" MEANS IN INTERIOR, CONDITIONED SPACE.
2. "EXPOSED" MEANS IN UNHEATED SPACE AND/OR EXPOSED TO WATER, WEATHER OR SULPHATES (BUT NOT VEHICLE TRAFFIC).
3. "EXPOSED TO VEHICLE TRAFFIC" MEANS LOCATED WITHIN 1200 (4'-0") FROM VEHICLE ACCESSIBLE AREAS.
4. COVERS SHOWN ABOVE MEET 2 FIRE RATING REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS FOR AREAS WHICH REQUIRE 3 OR 4 HOUR FIRE RATING AND PROVIDE INCREASED COVER AS INDICATED ON DRAWINGS.
5. COVERS SHOWN ABOVE ASSUME 20 (3/4") MAXIMUM NOMINAL SIZE OF CONCRETE AGGREGATE. REFER TO CONCRETE MIX DESIGN TABLE IN CAST-IN-PLACE CONCRETE NOTES FOR CONCRETE WITH LARGER AGGREGATE SIZE, AND INCREASE COVER TO REINFORCING CLOSEST TO THE SURFACE AS INDICATED.

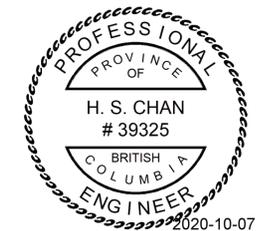
H. FIELD REVIEWS

- 1. THE DEPARTMENTAL REPRESENTATIVE WILL CONDUCT FIELD REVIEWS AND PROVIDE OR APPOINT MATERIALS TESTING SERVICES ON BEHALF OF THE OWNER.
2. THE DEPARTMENTAL REPRESENTATIVE PROVIDES FIELD REVIEWS FOR ONLY THE WORK SHOWN ON THE DRAWINGS. THIS REVIEW IS A PERIODIC REVIEW AT THE PROFESSIONAL JUDGEMENT OF THE DEPARTMENTAL REPRESENTATIVE. THE PURPOSE OF THE REVIEW IS TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS PREPARED BY THE DEPARTMENTAL REPRESENTATIVE, AND TO FACILITATE COMPLETION OF THE LETTERS OF ASSURANCE REQUIRED BY AUTHORITIES HAVING JURISDICTION. FIELD REVIEW BY THE DEPARTMENTAL REPRESENTATIVE IS NOT CARRIED OUT FOR THE CONTRACTOR'S BENEFIT, NOR DOES IT MAKE THE DEPARTMENTAL REPRESENTATIVE GUARANTORS OF THE CONTRACTOR'S WORK. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THEIR OWN QUALITY CONTROL AND TO PERFORM THE WORK WITH GOOD WORKMANSHIP AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
3. PROVIDE REASONABLE NOTICE (NOT LESS THAN 48 HOURS) TO ALLOW THE FIELD REVIEW OF THE FOLLOWING:
- INSTALLATION OF STRUCTURAL STEEL, AND ANCHORAGES BEFORE COVERING UP
- CONCRETE REMOVAL AND REMEDIATION WORK PRIOR TO EACH CONCRETE POUR

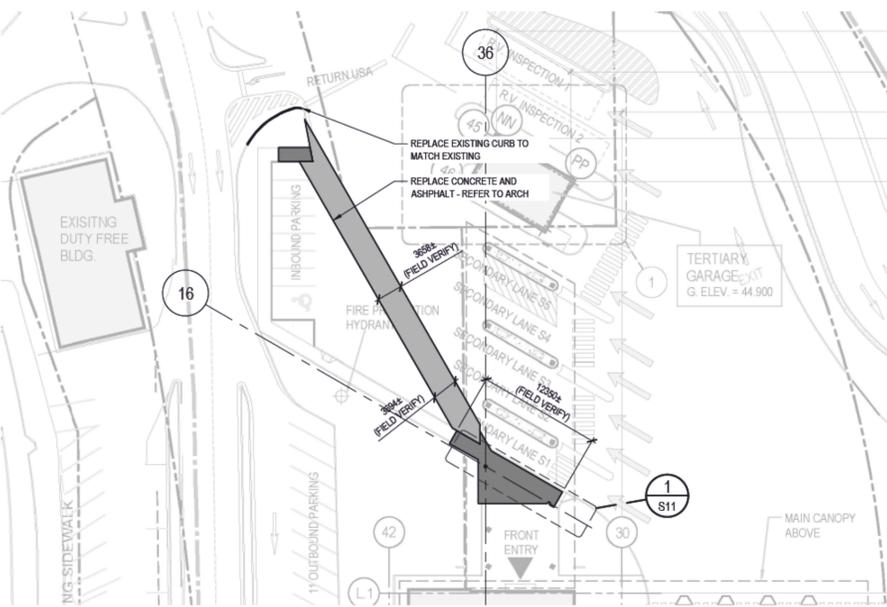
I. PRODUCT SUBSTITUTION

- 1. PROPOSED SUBSTITUTIONS FOR THE SPECIFIED PRODUCTS AND MATERIALS MUST BE SUBMITTED TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. PROVIDE COMPLETE DOCUMENTATION THAT SHOWS EQUIVALENCY WITH THE SPECIFIED PRODUCT OR MATERIAL. SUBSTITUTIONS INDICATED OR IMPLIED ON SHOP DRAWINGS OR PRODUCT DATA SUBMITTALS WILL NOT BE CONSIDERED. SUBSTITUTIONS ARE STRICTLY SUBJECT TO THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE. IF APPROVED, THE CONTRACTOR SHALL BEAR THE COST OF ANY REDESIGN REQUIRED BY THE ALTERNATIVE PRODUCT OR MATERIAL.
2.
3. SUBMIT SHOP DRAWINGS TO WSP FOR REVIEW.

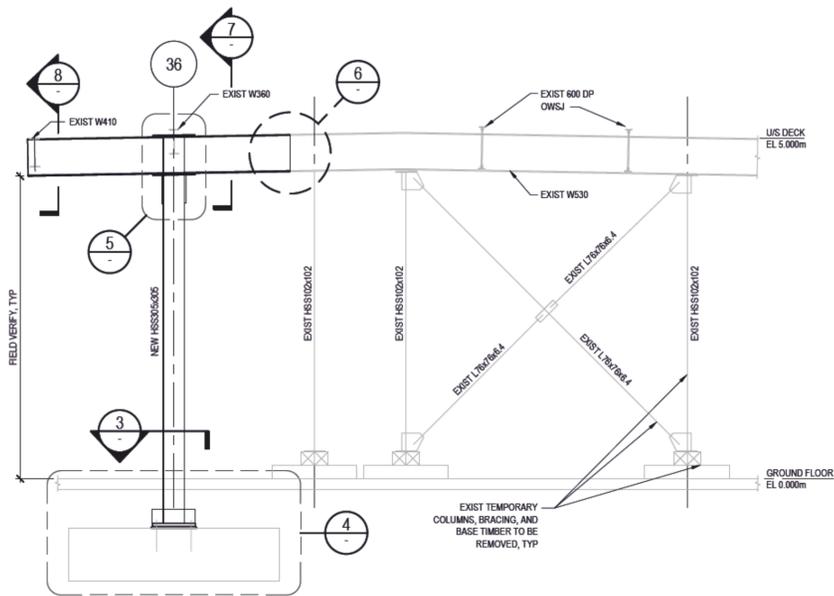
SHEET LIST table with columns SHEET No. and SHEET NAME. Rows: S10 GENERAL NOTES, S11 CANOPY FRAMING REPAIR PLANS, DETAILS & SECTIONS.



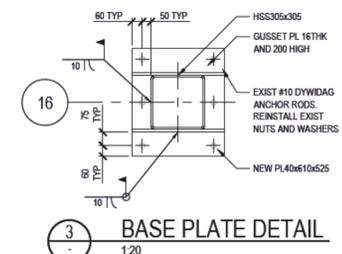
Project information form including: Client / Client: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA; Project title / Titre du projet: CBSA HIGHWAY 10, LANGLEY ALDERGROVE CANOPY FRAMING REPAIR; Consultant Approval Box Only; Designed by / Conçu par: SAM CHAN, WSP CANADA; Drawn by / Dessiné par: HERIMAN WONG, WSP CANADA; PWGSC Project Manager / Gestionnaire de Projets, TPSGC: NEDA NEDARI; PWGSC Regional Manager, Architectural and Engineering Services / Directeur Régional, Services d'Architecture et d'Ingénierie, TPSGC: PREETIPAL PAUL; Drawing title / Titre du dessin: GENERAL NOTES; PWGSC Project no. / Numéro du Projet: R.106402.001; Sheet / Feuille: S10; Revision no. / Numéro de Révision: REV A.



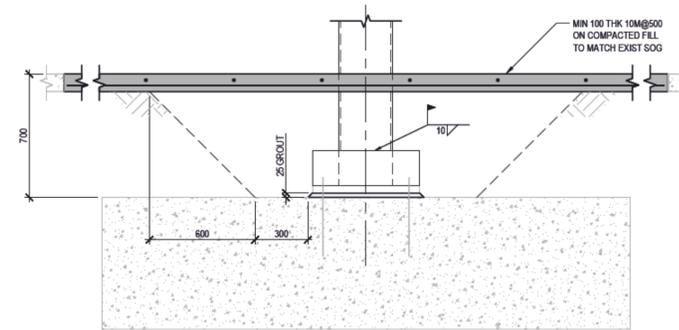
SITE PLAN
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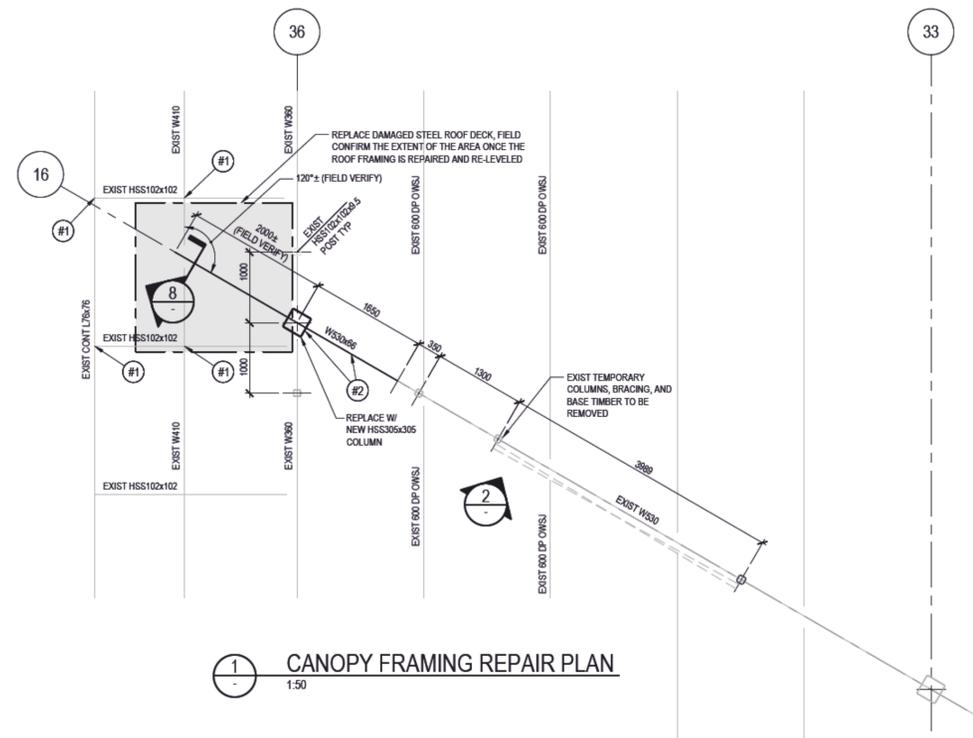
FRAMING ELEVATION ALONG GL 16
1:50



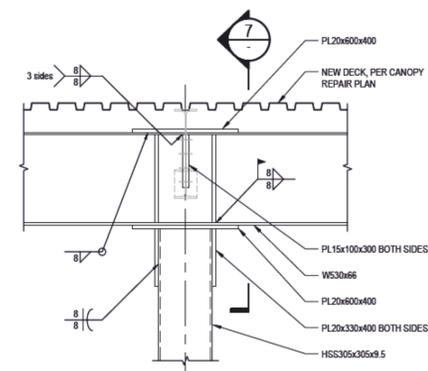
BASE PLATE DETAIL
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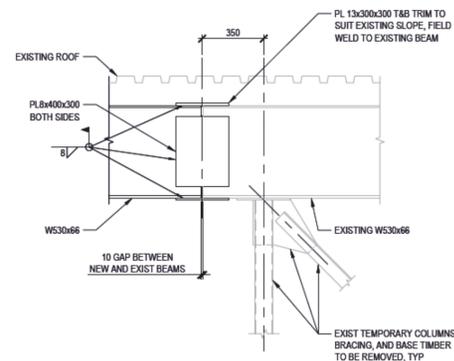
BASE PLATE SECTION
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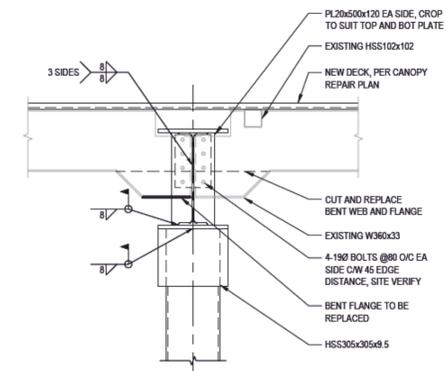
CANOPY FRAMING REPAIR PLAN
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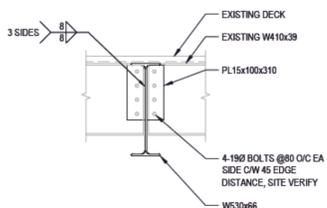
DETAIL AT GL 36/16
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DETAIL AT GL 36/-16
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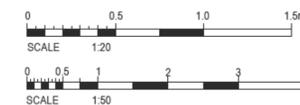
SECTION
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DETAIL @ GL 36+/-16
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SEQUENCE OF INSTALLATION

1. DEPARTMENTAL REPRESENTATIVE TO BE ON SITE DURING INSTALLATION OF REPAIR MEMBERS
2. CONTRACTOR SHOULD PROVIDE A SAFETY PLAN DURING INSTALLATION
3. REMOVE THE CLADDING AND SOFFIT OF THE BOTTOM SECTION OF THE ROOF, TO EXPOSE THE W410 AND HSS102 BEAMS
4. INSTALL TEMPORARY POSTS WITH MINIMUM CAPACITY OF 35kN, UNDER THE END OF THE BEAMS, MARKED AS #1 IN THE DRAWING
5. RELOCATE EXISTING HSS 102 TEMPORARY POSTS AWAY FROM COLUMN, IF SPACE IS REQUIRED FOR EXCAVATION AND COLUMN REPLACEMENT, OR INSTALL ADDITIONAL #1 TYPE POSTS ON GRID LINE 36 TO SUPPORT THE W360 BEAMS AS PER DEPARTMENTAL REPRESENTATIVE'S INSTRUCTION.
6. CAREFULLY REMOVE THE DAMAGED W30 BEAM AND COLUMN, MARKED AS #2 IN THE DRAWING
7. INSTALL NEW W30 BEAM AND COLUMN. THE ROOF STRUCTURE MUST BE LEVELLED TO MATCH ORIGINAL ELEVATION PRIOR TO INSTALLING NEW STEEL COLUMN AND BEAM.
8. REMOVE ALL EXISTING AND NEW, TEMPORARY POSTS, BRACING, AND CRIBBING INCLUDING ANCHOR BOLTS. PATCH ALL CONCRETE ANCHOR BOLT HOLES.



Client / Client: **PUBLIC WORKS AND GOVERNMENT SERVICES CANADA**
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Project title / Titre du projet: **CBSA HIGHWAY 10, LANGLEY ALDERGROVE CANOPY FRAMING REPAIR**

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PREETIPAL PAUL

Drawing title / Titre du dessin: **CANOPY FRAMING REPAIR PLANS, DETAILS & SECTIONS**

PWSSC Project no. / Numéro du Projet: **R.106402.001**
Sheet / Feuille: **S11**
Revision no. / Numéro de Révision: **REV A**

