- BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR
- SAFEGUARD ALL EXISTING STRUCTURES, SERVICES AND UTILITIES WHICH WILL BE AFFECTED BY THE WORK OF THIS CONTRACT.
- EXISTING UTILITIES SHALL REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION, FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- UTILITIES DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE RECORD ENGINEER AT THE CONTRACTORS EXPENSE.
- ALL WORK SHALL MEET THE MINIMUM STANDARDS AND FULL SPECIFICATIONS OF THE CONTRACT DOCUMENTS, THE NATIONAL BUILDING CODE OF CANADA 2020 (NBCC 2020) AND THE OCCUPATIONAL HEALTH AND SAFETY ACT (OHSA) AND NATIONAL BUILDING CODE OF CANADA - ALBERTA EDITION 2019 (NBCAE).
- ORGANIC, OR UNSTABLE MATERIALS SHALL BE REMOVED AND DISPOSED OF OFF-SITE, AND THESE AREAS BACKFILLED WITH AN APPROVED GRANULAR MATERIAL, TO THE SATISFACTION OF THE RECORD ENGINEER.
- ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK AND ANY DISCREPANCIES REPORTED TO THE RECORD ENGINEER.
- 10. ALL WORK SHALL CONFORM TO THE BEST PRACTICE OF EACH TRADE UNLESS SHOWN OR NOTED OTHERWISE. USE CONSTRUCTION DETAILS AND PRACTICES COMMON TO THE STANDARDS OF THE TRADE.
- 11. DRAWINGS SHALL BE READ IN CONJUNCTION WITH SPECIFICATIONS.
- 12. COORDINATE WITH EQUIPMENT SUPPLIER AND APPROPRIATE DISCIPLINE FOR SIZE AND LOCATION OF EQUIPMENT PADS AND ANCHOR BOLTS.
- 13. FOR LOCATION OF EQUIPMENT BASES, SEE BUILDING MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS. CARRY FLOOR FINISHES UP TO AND OVER EQUIPMENT BASES TO SUIT EQUIPMENT SUPPLIED.
- 14. REFER TO MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL WALL PENETRATIONS. PROVIDE LINTELS OVER ALL OPENINGS AS PER LINTEL SCHEDULE ON STRUCTURAL DRAWINGS.
- 15. ALL OPENINGS THROUGH FIRE SEPARATION WALLS AND SLABS MUST BE APPROVED UNDERWRITERS LABORATORIES OF CANADA (ULC) RATED FIRE STOP AND ASSEMBLIES.
- 16. ALL OPENINGS THROUGH EXTERIOR AND INTERIOR NON-RATED WALLS MUST BE PROPERLY SEALED AND CAULKED AND WITH METAL FLASHING (WHERE IT IS APPLICABLE) WITH APPROVED ASSEMBLIES UNLESS NOTED OTHERWISE.
- 17. THE CONTRACTOR SHALL SUPPLY, REMOVE AND DESIGN ALL TEMPORARY BRACING AND FALSEWORK, EXCAVATION SUPPORT SYSTEMS AND DEWATERING NECESSARY TO UNDERTAKE THE WORK.
- 18. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR TO DESIGN AND PROVIDE TEMPORARY FALSEWORK AND BRACING FOR CONSTRUCTION LOADING
- 19. CONTRACTOR TO PREPARE AND MAINTAIN A WORKING AS BUILT FULL SIZE 'REDLINE' MARKUP SET OF THE CONTRACT DRAWINGS. WORKING AS BUILTS SHALL BE KEPT CURRENT ON A WEEKLY BASIS AND BE AVAILABLE ON THE JOB SITE AT ALL TIMES. THE 'REDLINE' SET SHALL DEPICT ALL CURRENT VARIATIONS/DEVIATIONS (INCLUDING, BUT NOT LIMITED TO THE FOLLOWING, ADDENDUMS, CHANGE ORDERS, FIELD ADJUSTMENTS. EXISTING AND NEW UTILITY LINES). MEASUREMENTS ARE TO BE SHOWN FOR ALL CHANGE OF DIRECTION POINTS AND ALL COMPONENTS. THESE SHALL BE SHOWN WITH TWO OFFSET DISTANCES TO PERMANENTLY FIXED FEATURES.

STRUCTURAL GENERAL NOTES

- READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH OTHER DISCIPLINES AND SPECIFICATIONS. REPORT ANY DISCREPANCIES.
- ALL DIMENSIONS GIVEN ON THE STRUCTURAL DRAWINGS MUST BE CHECKED AGAINST THE OTHER DISCIPLINES DRAWINGS AND ANY INCONSISTENCIES REPORTED TO THE RECORD ENGINEER BEFORE PROCEEDING WITH THE WORK. STRUCTURAL DRAWINGS MUST NOT BE SCALED.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS THROUGH STRUCTURAL ELEMENTS. OBTAIN APPROVAL FROM THE RECORD ENGINEER BEFORE INSTALLING OPENINGS OR SLEEVES NOT SHOWN ON THE STRUCTURAL DRAWINGS. SEE TYPICAL STANDARD DRAWINGS FOR REINFORCEMENT REQUIREMENTS AND LIMITATIONS ON SIZE AND SPACING OF OPENINGS.
- ALL PIPE PENETRATIONS THROUGH CONCRETE WALLS SHALL BE WATERTIGHT. EXTEND WATERPROOFING SYSTEM ON TO PIPES AND OTHER PENETRATIONS.
- COORDINATE WITH EACH DISCIPLINE'S DRAWINGS AND WITH EQUIPMENT SUPPLIERS SHOP DRAWINGS FOR SIZE AND LOCATIONS FOR EQUIPMENT, PIPING ETC.
- WHERE THE STRUCTURAL THICKNESS OF A SLAB VARIES OR WHERE THE TOP SURFACE OF A SLAB IS SHOWN SLOPED, MAINTAIN CONSTANT COVER TO THE REINFORCING STEEL. TOP REINFORCING STEEL SHALL FOLLOW THE SLOPE OF THE SLAB UNLESS SPECIFICALLY OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS ARE TO THE STRUCTURAL CONCRETE OR STEEL ONLY.
- ALL EMBEDDED ITEMS REQUIRED FOR MECHANICAL, ELECTRICAL AND INSTRUMENTATION SERVICES SHALL BE INCORPORATED INTO THE STRUCTURES. ELECTRICAL CONTRACTOR SHALL PROVIDE A DETAILED DRAWING SHOWING THE PROPOSED LOCATION AND SIZE OF CONDUITS IN CONCRETE SLABS FOR APPROVAL PRIOR TO PLACEMENT OF CONCRETE SLAB. CORING AND SAW CUTTING AFTER SLAB CONSTRUCTION WILL NOT BE PERMITTED.
- THE STRUCTURE IS DESIGNED TO RESIST DESIGN LOADS IN THE COMPLETED STAGE ONLY. ANY CONSTRUCTION LOADING IMPOSED ON THE PARTIALLY COMPLETED STRUCTURE, INCLUDING THE REMOVAL OF SUPPORT BRACING, SHORING AND FORM WORK FOR CONCRETE, REQUIRES VERIFICATION.
- CHAMFER ALL EXTERNAL CORNERS, VISIBLE AND ABOVE GRADE 20mm x 20mm UNLESS OTHERWISE SHOWN ON DRAWINGS.
- 10. ALL LAP REINFORCING BARS SHALL BE AS PER STANDARD DETAILS UNLESS OTHERWISE NOTED.
- CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS WILL NOT BE PERMITTED WITHOUT APPROVAL OF THE ENGINEER. LOCATIONS AND DETAILS OF CONSTRUCTION JOINTS NOT SHOWN ON DRAWINGS SHALL BE SUBMITTED TO THE RECORD ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- 12. PROVIDE ADEQUATE MEANS OF DEWATERING TO ENSURE EXCAVATIONS ARE DRY AT ALL TIMES. PLACEMENT OF CONCRETE SHALL ONLY BE MADE IN DRY EXCAVATIONS. THE METHOD OF DEWATERING SHALL BE SUCH TO PREVENT SETTLEMENT OF AND DAMAGE TO ADJACENT STRUCTURES.
- 13. SLEEVES, DUCTS, PIPES OR OTHER OPENINGS SHALL NOT PASS THROUGH BEAMS, COLUMNS, TANK WALLS OR TANK SLABS EXCEPT WHERE DETAILED ON THE DRAWINGS.

CONSTRUCTION SAFETY REGULATIONS / SITE REQUIREMENTS

ALL WORK SHALL BE IN ACCORDANCE WITH THE ALBERTA OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.

REFERENCE DESIGN CODES

- DESIGN LIVE LOADS ARE SHOWN ON INDIVIDUAL DRAWINGS. THE STRUCTURAL DESIGN IS BASED ON THE FOLLOWING CODES (AND ASSOCIATED REFERENCED
 - NATIONAL BUILDING CODE OF CANADA ALBERTA EDITION 2019
 - CANADIAN STANDARDS ASSOCIATION (CSA) STANDARD A23.3 - CSA STANDARD S304.1
 - CSA STANDARD S16 - CSA STANDARD 086

DESIGN PARAMETERS

GROUND SNOW LOAD: 1.5 kPa 0.1 kPa WIND PRESSURE (1/50) 0.35 kPa IMPORTANCE FACTOR I NORMAL

Sa(0.2) = 0.108 Sa(2.0) = 0.0242 Sa(0.5) = 0.102 Sa(5.0) = 0.00533Sa(1.0) = 0.0557 Sa(10.0) = 0.00165PGA = 0.0629

PGV = 0.0563

SITE CLASS = D

EARTHQUAKE

DESIGN PARAMETERS

CLADDING & CURTAIN WALL: NET WIND LOAD:

POSITIVE PRESSURE: 0.84 kPa (ULS) SUCTION: -0.85 kPa (ULS) POSITIVE PRESSURE: 0.63 kPa (SLS) SUCTION: -0.64 kPa (SLS)

EXCAVATION AND BACKFILL

- ALL EXCAVATION AND BACKFILL WORK TO BE IN ACCORDANCE WITH ACI 336.3R-14 AND THE RECOMMENDATIONS GIVEN IN ENGINEERING REPORT - "GEOTECHNICAL INVESTIGATION "PROPOSED CAR WASH FACILITY - FORT MCMURRAY INTERNATIONAL AIRPORT" DATED FEBRUARY, 2019 BY WOOD., PLUS AMENDMENTS.
- EXCAVATE TO LINES AND LEVELS NECESSARY TO COMPLETE THE WORK. CONTROL EXCAVATIONS, GROUNDWATER AND RUNOFF SUCH THAT SITE SOILS ARE NOT SOFTENED. DETERMINE EXCAVATION SIDE SLOPES AS REQUIRED TO SUIT CONDITIONS.
- EXCAVATIONS SHALL BE INSPECTED BY THE RECORD ENGINEER DURING CONSTRUCTION TO CONFIRM THE SUBSURFACE PROFILE. RECORD ENGINEER TO BE FINAL AUTHORITY ON ALL SOIL EXCAVATION AND REPLACEMENT WORK.
- REFER TO THE SPECIFICATIONS FOR FILL TYPES AND COMPRESSIVE STRENGTHS.
- WHERE BACKFILL IS REQUIRED ON BOTH SIDES OF A WALL OR STRUCTURE, PLACE BACKFILL BOTH SIDES WITH A MAXIMUM ONE LIFT DIFFERENCE BETWEEN SIDES.
- ALL BACKFILL SHALL BE MECHANICALLY COMPACTED TO ACHIEVE MINIMUM SPMDD% AS NOTED IN THE GEOTECHNICAL REPORT.
- 7. EXTETNS OF SUB-CUT AND SOIL REPLACEMENT TO BE MINIMUM 1500 BEYOND BUILDING EXTERIOR SLAB-ON-GRADE FOOTPRINT.

FOUNDATIONS

- FOUNDATION DESIGN IS BASED ON GEOTECHNICAL INVESTIGATION REPORT PREPARED BY AMEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE.
- GENERALLY STRUCTURE FOUNDATIONS ARE FOUND ON NATIVE SUBGRADE WITH FACTORED ULS BEARING PRESSURE OF 112.5 kPa.
- PROVIDE A 100mm THICK CONCRETE SLAB (WORKING SKIM SLAB) ON ALL EXCAVATED SLAB, UNLESS NOTED OTHERWISE.
- 4. SUBGRADE CONDITIONS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER.

CONCRETE

- PROVIDE CONCRETE AND PERFORM WORK IN ACCORDANCE WITH CSA-A23.1.
- ALL CONCRETE SHALL BE NORMAL-DENSITY WITH NORMAL-DENSITY FINE AND COARSE AGGREGATE AND BE PROPORTIONED TO MEET THE FOLLOWING REQUIREMENTS:

LOCATION	CSA EXP. CLASS	CEMENT TYPE	MINIMUM COMPRESSIVE STRENGTH (MPa)	MAX. AGG. (mm)	AIR CONT. (%)
FOUNDATION WALL AND FOOTING	C-1	GU	35 @ 28 DAYS	20	4 - 6
INTERIOR SLABS	N	GU	30 @ 28 DAYS	20	4 - 6
EXTERIOR SLAB, CAR WASH AREA	C-1	GU	35 @ 28 DAYS	20	4 - 6

- 3. FLY ASH CONTENT SHALL CONTAIN MINIMUM 25% OF TOTAL CEMENTITIOUS MATERIALS FOR FLOOR SLABS, BEAMS, AND TOPPINGS, 40% FOR OTHER CONCRETE.
- ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE NOT PERMITTED.
- SUPERPLASTICIZING ADMIXTURE IS PERMITTED TO ALLOW PUMPING OR IMPROVE SURFACE FINISHING OF CONCRETE.
- FOR FLOOR SLABS, DESIGN THE CONCRETE MIXTURE WITH AGGREGATE GRADING AND WATER-TO-CEMENTING MATERIALS RATIO THAT MINIMIZE SHRINKAGE.
- CONSTRUCTION JOINTS NOT INDICATED ON THE DRAWINGS SHALL BE LOCATED SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE. THE LOCATION OF THESE JOINTS SHALL BE SUBJECT TO THE PRIOR APPROVAL OF THE RECORD ENGINEER. JOINTS SHALL BE IN ACCORDANCE WITH CA/CSA-A23.1 OR AS INDICATED ON DRAWINGS OR DIRECTED BY THE RECORD ENGINEER.

CONCRETE FORMWORK

- FORM WORK: CONFORM TO CAN/CSA0S269.3.
- VOID FORM MATERIALS: TYPE 'A' EXPANDED POLYSTYRENE COMPRESSIBLE FILL MATERIAL.
- 3. REFER TO ARCHITECTURAL DRAWINGS FOR CHAMFERS ON CORNERS OF GRADE BEAMS. USE 20x20mm FORMED CHAMFERS ON EXPOSED CORNERS UNLESS CHAMFERS OF OTHER SIZES ARE SHOWN ON THE DRAWINGS.

CONCRETE REINFORCEMENT

- 1. REINFORCING STEEL SHALL BE BILLET STEEL CONFORMING TO CSA-G30.18 GRADE 400.
- WELDABLE REINFORCING BARS SHALL CONFORM TO CSA-G30.18 GRADE 400W. WELDING OF REINFORCING STEEL SHALL CONFORM TO CSA-W186.
- REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI) DETAILING MANUAL OR THE REINFORCING
- STEEL INSTITUTE OF CANADA DETAILING MANUAL. 4. 90° HOOKS AND 180° HOOKS WHERE SHOWN SHALL BE DETAILED AS STANDARD HOOKS
- UNLESS NOTED OTHERWISE. 5. CONCRETE COVER TO REINFORCING STEEL SHALL CONFORM TO THE MOST STRINGENT

CONCRETE CAST AGAINST EARTH OR WORK SLAB	75mm
MAIN FLOOR TOP BARS BOTTOM BARS	40mm 60mm
CONCRETE CAST IN FORMS RATIO OF COVER TO NOMINAL BAR DIAMETER	60mm

REQUIREMENT LISTED BELOW UNLESS NOTED OTHERWISE:

- BENDING, CUTTING AND PLACING OF REINFORCING STEEL SHALL CONFORM TO CAN/CSA A23.1 AND CAN/CSA A23.3.
- 7. UNLESS NOTED OTHERWISE, PROVIDE DOWELS OF THE SAME SIZE, NUMBER AND SPACING WHERE REINFORCING IS SPLICED.
- SUBMIT TO THE RECORD ENGINEER FOR REVIEW THE LOCATION OF ALL CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS.
- HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE MADE IN BEAMS UNLESS SHOWN ON THE DRAWINGS
- OPENINGS NOT SHOWN ON THE DRAWINGS. THE RECORD ENGINEER WILL PROVIDE STRUCTURAL DETAILS AS REQUIRED FOR SLEEVES AND OPENINGS.

10. SUBMIT TO THE RECORD ENGINEER FOR REVIEW THE LOCATIONS OF ALL SLEEVES AND

- 11. SLEEVES SHALL NOT BE PLACED HORIZONTALLY ALONG OR VERTICALLY THROUGH BEAMS UNLESS AUTHORIZED BY THE RECORD ENGINEER.
- 12. HORIZONTAL CONSTRUCTION JOINTS IN FOUNDATION WALLS ARE NOT PERMITTED EXCEPT WHERE SHOWN ON DRAWINGS OR WHERE AUTHORIZED BY THE RECORD
- 13. REINFORCING STEEL BAR LAPS SHALL BE CLASS B TENSION SPLICES PER ACI250M-01 UNLESS NOTED OTHERWISE

CLASS B TENSION SPLICE FOR 30 MPa CONCRETE STRENGTH					
BAR SIZE	BOTTOM BARS	TOP BARS	INTEGRITY STEEL		
10M	460	590	460		
15M	680	890	680		
20M	910	1180	910		
25M	1400	1820	1400		
30M	1680	2180	1680		

CLASS B TENSION SPLICE FOR 35 MPa CONCRETE STRENGTH					
BAR SIZE	BOTTOM BARS	TOP BARS	INTEGRITY STEEL		
10M	420	550	420		
15M	630	820	630		
20M	840	1090	840		
25M	1300	1680	1300		
30M	1550	2020	1550		

TOP BAR LENGTHS ARE APPLICABLE TO HORIZONTAL BARS WITH MORE THAN 300mm OF CONCRETE PLACED BENEATH THE BAR.

SLAB ON GRADE

- SEE PLAN AND RELEVANT DETAILS.
- FOLLOW GEOTECHNICAL ENGINEERING REPORT RECOMMENDATIONS FOR SUBGRADE PREPARATION. REFER TO THE REPORT REFERENCED IN THE EXCAVATION AND BACKFILL
- ALL CLAY FILL SHALL BE PLACED ON THE "WET SIDE OF OPTIMUM" (AT A MOISTURE CONTENT AT 2% OVER OPTIMUM MOISTURE CONTENT) DURING COMPACTION.
- EXPOSED SUBGRADE SHALL BE PROTECTED FROM FREEZING OR EXCESSIVE DRYING AND WETTING. SHOULD THE MOISTURE CONTENT OF THE SUBGRADE BE DEEMED SUB-OPTIMAL, PERFORM MOISTURE RECONDITIONING AND RE-COMPACTION TO THE SATISFACTION OF THE RECORD ENGINEER.
- PROVIDE 100 THICK VOID FORM AND 300mm THICK COMPACTED GRAVEL BASE UNDER EXTERIOR SLAB ON GRADE.
- PRIOR TO PLACING GRANULAR FILL MATERIALS, PROOF-ROLL EXISTING SUBGRADE TO IDENTIFY INCONSISTENCIES OR SOFT AREAS. PROCEED WITH GRANULAR PLACEMENT ONLY AFTER THESE AREAS HAVE BEEN RE-WORKED AND COMPACTED TO THE SATISFACTION OF THE RECORD ENGINEER.
- THE TRENCHING AND PLACING OF UNDERSLAB UTILITIES SHALL NOT COMMENCE UNTIL THE COMPACTION OF SUBGRADE MATERIAL HAS BEEN INSPECTED, APPROVED AND VERIFIED BY THE RECORD ENGINEER. PROVIDE APPROVED CONVENTIONAL BEDDING SAND OR EQUAL AS UTILITY BASE MATERIAL.
- DO NOT POUR CONCRETE UNTIL ALL ELECTRICAL AND MECHANICAL CONDUITS, PIPING OR OTHER EMBEDDED SERVICES ARE INSTALLED, AND VERIFIED.
- MAINTAIN SLAB THICKNESS INDICATED ON THE DRAWINGS IN ALL CASES.
- CONDUIT OR PIPE SIZE OUTSIDE DIAMETER (OD) SHALL NOT EXCEED 30 PERCENT OF SLAB THICKNESS AND SHALL BE PLACED BETWEEN TOP AND BOTTOM REINFORCING, UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATION OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED.
- 11. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. CORING THROUGH CONCRETE IS NOT PERMITTED EXCEPT WHERE SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE
- 12. CURE AND PROTECT ALL CONCRETE IMMEDIATELY AFTER PLACEMENT IN ACCORDANCE
- APPLY SURFACE SEALERS AS SOON AS POSSIBLE AFTER THE FINAL TROWEL
- 14. AGREE TO LOCATIONS OF CONSTRUCTION JOINTS WITH RECORD ENGINEER PRIOR TO CONSTRUCTION.

STRUCTURAL STEEL

- THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL CONDITIONS AND MEASUREMENTS AT THE SITE AND REPORT TO THE RECORD ENGINEER ANY DISCREPANCIES OR UNSATISFACTORY CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE WORK BEFORE PROCEEDING WITH THE WORK.
- DESIGN LOADS FOR EACH PORTION OF THE STRUCTURE ARE SHOWN. DO NOT EXCEED THESE LOADS DURING CONSTRUCTION OR PROVIDE ADDITIONAL SUPPORT AS REQUIRED.
- ALL SHOP CONNECTIONS SHALL BE WELDED. ALL FIELD CONNECTIONS SHALL BE WELDED OR BOLTED USING HIGH TENSILE BOLTS. BEARING TYPE CONNECTIONS SHALL BE C.I.S.C. DOUBLE ANGLE BEAM CONNECTIONS OR SHEAR PLATES USING A325 BOLTS AND E49XX FILLET WELDS, MINIMUM SIZE OF BOLTS - 20mm DIAMETER. THEY SHALL BE CAPABLE OF SUPPORTING 50% OF THE TOTAL UNIFORM LOAD CAPACITY CALCULATED USING UNIFORM LOAD CONSTANTS FOR BEAMS LATERALLY SUPPORTED EXCEPT WHERE SPECIFICALLY NOTED OR DETAILED.
- BRACING CONNECTIONS SHALL BE DESIGNED FOR THE LARGER OF 50% OF MEMBER TENSILE STRENGTH OR INDICATED DESIGN LOADS.
- ALL HSS SECTIONS MUST HAVE OPEN ENDS CAPPED OR WELDED SOLID ALL AROUND AT
- PROVIDE AND TAKE RESPONSIBILITY FOR ALL TEMPORARY BRACING AND SHORING REQUIRED.
- ALL COLUMN ENDS SHALL BE SAWCUT AND WELDED TO BASE PLATES.
- PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES, UNLESS NOTED OTHERWISE, OF THE WEB OF BEAMS AT POINTS OF CONCENTRATED LOAD INCLUDING BEAMS SUPPORTING COLUMNS OR RUNNING OVER TOP OF COLUMNS. MINIMUM STIFFENER PLATE THICKNESS SHALL BE 10 mm OR FLANGE THICKNESS OF COLUMNS ABOVE OR BELOW, WHICHEVER IS GREATER. MINIMUM SIZE OF WELD SHALL BE 5mm DOUBLE FILLET WELD, OR SHALL BE SUFFICIENT TO DEVELOP THE FULL STRENGTH OF THE STIFFENER, WHICH EVER IS
- FOR LOCATIONS OF DOOR FRAMES, WALL OPENINGS, AND ROOF OPENINGS, ETC. AND RELATED DETAILS. SEE ARCHITECTURAL. MECHANICAL. AND ELECTRICAL DRAWINGS.
- 10. PERIMETER ROOF ANGLES, IF ANY, SHALL BE CONTINUOUS AND BUTT WELDED TOGETHER AT JOINTS.
- 11. GIRTS SHALL HAVE END CONNECTIONS CAPABLE OF SUPPORTING 50% OF THE MEMBERS CAPACITY ABOUT THE MAJOR AXIS. CALCULATED IN THE SAME MANNER AS FOR BEAMS. EACH WEB OF BUILT-UP MEMBERS SHALL HAVE THEIR ENDS CONNECTED AS SPECIFIED
- 12. GUSSET PLATES FOR DIAGONAL BRACING SHALL BE CONNECTED TO ALL INTERSECTING MEMBERS UNLESS NOTE OTHERWISE, AND BE IN LINE WITH CENTERLINE OF MEMBERS.
- 13. THE MINIMUM END CONNECTION OF ANY MEMBER SHALL BE MADE WITH TWO(2) A325 BOLTS OR EQUIVALENT WELD.
- 14. IN ADDITION TO STRENGTH WELDS. STRUCTURAL STEEL EXPOSED TO WEATHER SHALL HAVE CONTINUOUS SEAL WELDS AT ALL JOINTS (INCLUDING ALL CONNECTION MATERIAL).
- 15. ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CSA G40.21M GRADE 300W, UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL `W' SHAPES SHALL CONFORM TO CSA G40.21M GRADE 350W.
- 17. ALL HOLLOW STRUCTURAL STEEL SECTIONS (HSS) SHALL CONFORM TO CSA G40.21M GRADE 350W - CLASS H.
- FABRICATION, ERECTION AND WORKMANSHIP SHALL CONFORM TO CAN/CSA S16-01.
- ALL WELDING SHALL CONFORM TO CSA S16-01 AND THE LATEST VERSION OF W59 AND SHALL BE PERFORMED BY A WELDER QUALIFIED UNDER THE LATEST VERSION OF CSA
- 20. WELDING ELECTRODES SHALL BE E49XX.
- 21. SURFACES TO BE WELDED SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER INCLUDING PAINT FILM.
- 22. ALL JOINTS SHALL BE WELDED USING E49XX ELECTRODES OR BEARING TYPE CONNECTIONS USING M20 ASTM A325M HIGH STRENGTH BOLTS, UNLESS NOTED
- 23. SUBMIT SHOP DRAWINGS TO THE RECORD ENGINEER FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA FOR CONNECTION DESIGN.
- 24. FOR PRIME PAINTING / PAINTING OF STRUCTURAL STEEL REFER TO SPECS. TOUCH-UP DAMAGED AREAS IN FIELD WITH SAME SYSTEM.
- 25. ANCHOR BOLTS CONFORMING TO ASTM A307.

- **MATERIALS SPECIFICATIONS** 1. CONCRETE IN ACCORDANCE WITH CSA STANDARD A23.1 AND A23.2.
- STRUCTURAL CONCRETE UNLESS OTHERWISE NOTED: 35 MPa AT 28 DAYS, 40 MPa AT 56 DAYS, EXPOSURE CLASSIFICATION C-1.
- LEAN FILL AND MASS CONCRETE 28-DAYS COMPRESSIVE STRENGTH 15 MPa AT 28 DAYS, CLASSIFICATION N.
- OTHER REQUIREMENTS FOR CONCRETE AS LISTED IN THE SPECIFICATIONS.
- REINFORCING STEEL: CSA STANDARD G30.18, GRADE 400W, DEFORMED BARS. STRUCTURAL STEEL: CSA STANDARD G40.20/G40.21, GRADE 350 ROLLED SECTIONS, GRADE 300 PLATES. ALL STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED AFTER
- FABRICATION. WELDING: CSA STANDARD W59.
- BOLTS: ASTM A325M, ANCHOR BOLTS ASTM A307 (UNLESS OTHERWISE NOTED).
- DOWELS INTO CONCRETE

JWELS INTO CONCRETE						
	DOWEL SIZE	HOLE SIZE	EDGE DISTANCE	EMBEDMEN.		
	15M	19 mm DIA.	90 mm	180 mm		
	20M	24 mm DIA.	100 mm	230 mm		
	25M	29 mm DIA.	125 mm	340 mm		

- FILL HOLES WITH EPOXY ADHESIVE: HILTI HIT-HY 200 OR APPROVED EQUAL.
- 2. EMBEDMENTS ARE MINIMUM. PRODUCT CAPACITIES VARY AND MAY REQUIRE ADDITIONAL EMBEDMENT.

CONSULTANT

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FORT McMURRAY AIRPORT RENTAL CAR **WASH / QTA FACILITY**

FORT MCMURRAY, ALBERTA

PROJECT NUMBER

60723990

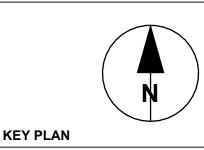
CLIENT



REGISTERED OWNER: FORT McMURRAY AIRPORT AUTHORITY

Suite 300 - 100 Snow Bird Way, Fort McMurray, AB T9H 0G3

NORTH ARROW AND KEYPLAN



T IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY CANNOT BE GUARANTEED. WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED

HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOS

REGISTRATION

ISSUE/REVISION

PRELIMINARY

NOT FOR CONSTRUCTION

06/06/2025 ISSUED FOR TENDER

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SHEET TITLE

VERIFIED: A.SMITH

STRUCTURAL NOTES

SHEET NUMBER

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- 3. ALL MORTAR SHALL CONFORM TO CSA A179 AND SHALL BE TYPE 'S' UNLESS NOTED
- 4. FOR ALL BLOCK WALLS VERTICAL GROUT FILL SHALL BE HIGH SLUMP CONCRETE WITH A COMPRESSIVE STRENGTH OF 20 MPa (28 DAYS). SEE MATERIALS SPECIFICATIONS.
- 5. TIE MASONRY UNITS TO CONCRETE WITH 40mm x 5mm STANDARD CORRUGATED DOVETAIL ANCHORS AT 400mm SPACING.
- ALL MASONRY WORK SHALL CONFORM TO CAN/CSA-S304.1, A371 AND TO DETAILS SHOWN ON DRAWINGS.
- ALL LINTELS AND BOND BEAMS SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF 20 MPA. CONCRETE SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 10mm AND A SLUMP OF 150±20mm
- PLACE MASONRY UNITS IN RUNNING BOND, UNLESS NOTED. USE FACE SHELL BEDDING EXCEPT FIRST COURSES AND CELLS TO BE GROUTED WHERE FULL BED MORTARING IS TO
- EXTEND ALL NON-LOAD BEARING MASONRY WALLS TO FORM A 40mm GAP BETWEEN TOP OF WALL AND UNDERSIDE OF STRUCTURE ABOVE. FILL GAP WITH COMPRESSIBLE ACOUSTIC OR FIRE-STOP MATERIAL TO MAINTAIN WALL RATING. REFER TO DRAWING FOR DETAILS AT TOP OF WALL.
- 10. HEAT MATERIALS AND PROTECT WORK IN ACCORDANCE WITH CSA-S304 WHEN AMBIENT TEMPERATURE IS BELOW 5°C.
- 11. CORE FILLS SHALL BE DONE IN MAXIMUM 1200mm LIFTS, AND SHALL BE RODDED TO AVOID HONEYCOMBING, OR WHERE GROUT POUR EXCEEDS 1200mm PROVIDE CLEANOUTS AT BOTTOM OF CORES. MAXIMUM LIFT IN ONE POUR IS 2400mm. REINFORCE CORES AS NOTED ON DRAWINGS.
- 12. PROVIDE DOWELS TO MATCH VERTICAL MASONRY WALL REINFORCING. REFER TO DRAWINGS FOR CONNECTIONS TO EXISTING CONCRETE.
- 13. REINFORCING LAPS: (UNLESS NOTED OTHERWISE): WIRE REINFORCING 300mm; 10M BARS - 400mm; 15M BARS - 650mm
- 14. PROVIDE VERTICAL CONTROL JOINTS AT MAXIMUM 6000mm SPACING. BOND BEAM REINFORCING CONTINUES THROUGH CONTROL JOINT. CUT ALTERNATE WIRE JOINT REINFORCEMENT. CAULK EACH JOINT WITH FLEXIBLE SEALANT ON BOTH SIDES. CONTROL JOINT SHALL NOT BE WITHIN 600mm FROM EDGE OF WALL OPENING.
- 15. UNLESS OTHERWISE NOTED IN MASONRY ELEVATIONS, PROVIDE SOLID BLOCK OR CONCRETE FILLED BLOCK UNDER ALL CONCENTRATED LOADS BEARING ON MASONRY.
- 16. PROVIDE CONCRETE FILLED CORES AT ALL LOCATIONS WHERE METAL FABRICATIONS OR OTHER EQUIPMENT, UTILITIES, ETC., ARE FASTEN TO BLOCK WALLS.
- 17. FILL ALL PARAPET VOIDS WITH CONCRETE.
- 18. FILL ALL OPEN CELLS IN EXTERIOR BLOCK WALLS WITH FOAM CELL INSULATION.
- 19. PROVIDE TEMPORARY BRACING FOR ALL WALLS UNTIL MASONRY HAS BEEN ANCHORED TO PERMANENT STRUCTURE AND THE ROOF DECK HAS BEEN INSTALLED.
- 20. BUILD MASONRY TRUE TO LINE, PLUMB, SQUARE AND LEVEL WITH VERTICAL JOINT IN PROPER ALIGNMENT TO CSA A371.
- 21. MAXIMUM JOINT WIDTH 10mm. POINT AND COMPACT JOINTS WITH ROUND BAR TOOL. TYPE TO BE CONFIRMED WITH ARCHITECT.
- 22. CUT MASONRY UNITS WITH MASONRY SAW. BROKEN UNITS ARE NOT ACCEPTABLE.

REINFORCING WITH DEFORMATIONS, PLACED AT 400mm OC

- 23. UNLESS NOTED ON DRAWINGS, THE MINIMUM REINFORCING SHALL CONSIST OF THE
 - HORIZONTAL JOINT REINFORCING 3.8mm DIAMETER (9 GAUGE) TRUSS TYPE WIRE
 - 1. ALL SPLICES SHALL BE LAPPED MINIMUM 300mm. LAP LOCATIONS SHALL BE STAGGERED MINIMUM 800mm FROM COURSE TO COURSE. SMOOTH WIRE REINFORCEMENT SHALL BE PERMITTED ONLY IF APPROVED, AND IF

APPROVED, ALL LAPS SHALL BE INCREASED TO MINIMUM 400mm.

- 2. LADDER TYPE REINFORCEMENT SHALL BE USED ONLY IF APPROVED, AND SHALL BE PERMITTED ONLY WITH MODIFICATIONS TO WIRE SIZE TO PROVIDE EQUIVALENT LONGITUDINAL AREA TO SPECIFIED TRUSS-TYPE.
- 3. JOINT REINFORCEMENT SHALL BE MADE CONTINUOUS AT ALL WALL CORNERS AND WALL INTERSECTIONS BY USE OF "L" AND "T" SHAPED PIECES SPECIFICALLY FABRICATED FOR THESE APPLICATIONS.
- HORIZONTAL BAR REINFORCING DEFORMED BILLET STEEL BARS TO G30.12M GRADE 400.
 - PROVIDE CONCRETE FILLED AND REINFORCED BOND BEAMS AT MAX 2400mm OC, UNLESS OTHERWISE NOTED, REINFORCE EACH 200mm OF BOND BEAM WITH 1 - 20M CONTINUOUS, WITH MATCHING CORNER BARS.
- 2. PROVIDE LINTELS OVER ALL OPENINGS OR RECESSES IN MASONRY WALLS, INCLUDING THOSE FOR MECHANICAL OR ELECTRICAL SERVICES AND EQUIPMENT. PROVIDE LINTELS AS FOLLOWS, UNLESS NOTED OTHERWISE

SPAN (mm)	DEPTH (mm)	MAIN REINFORCEMENT	SHEAR LINKS
0 - 1200	200	1 - 20M	-
1200 - 2400	400	1 - 20M TOP AND BOTTOM	10M @ 200 OC
2400 - 3600	600	1 - 20M TOP AND BOTTOM	10M @ 200 OC
3600 - 4400	800	2 - 20M TOP AND BOTTOM	10M @ 200 OC

- 3. BEAR LINTEL ON FILLED VERTICAL CELLS ON EACH SIDE OF OPENING.
- C. VERTICAL REINFORCING DEFORMED BILLET STEEL BARS TO G30.12M GRADE 400
 - 1. 15M AT 800 OC IN LOAD BEARING WALLS, AND EXTERIOR UNLESS NOTED
 - PROVIDE ONE VERTICAL BAR TO MATCH WALL REINFORCING FULL HEIGHT AT: UNSUPPORTED ENDS OF WALLS AND AT EACH SIDE OF CONTROL
 - EACH CORNER AND AT INTERSECTIONS.
 - EACH SIDE OF DOORS. BARS TO EXTEND TO TOP OF WALLS.
 - EACH SIDE OF OPENINGS. BARS TO EXTEND A MINIMUM 600mm BEYOND
 - 3. IN ADDITION TO REINFORCING DETAILS SHOWN ON DRAWINGS, CONCRETE FILL AND REINFORCE VERTICAL CELLS ON BOTH SIDES OF ALL OPENINGS WITH 1 BAR TO MATCH VERTICAL REINFORCING IN MIDDLE OF EACH CELL AS FOLLOWS:

	OPENING WIDTH (mm)	CELLS TO BE FILLED EACH SIDE OF OPENING		
	0 - 2000	1		
	2000 - 3000	2		
	3000 - 4500	3		
REINFORCEMENT TO EXTEND FULL HEIGHT OF WALL AND BE ANCHOR 200mm INTO CONTINUOUS BOND BEAMS AT TOP OF WALL. PROVIDE D FROM SUPPORTS.				

MASONRY LINTELS

- UNLESS NOTED OTHERWISE, PROVIDE 200mm MINIMUM SOLID BEARING AT BOTH SIDES
- 2. CONCRETE FILL TO BE 20 MPa AT 28 DAYS MINIMUM.
- PROVIDE 2-20mm DIAMETER x 450mm LONG ANCHOR BOLTS FOR EACH BEARING PLATE. GROUT ANCHOR BOLTS SOLID INTO BLOCK WALL.
- 4. HOT DIP GALVANIZE ALL STEEL LINTEL MEMBERS AFTER FABRICATION.

CONDUIT THROUGH WALL/SLAB NOTES

- 1. CONDUITS SHALL BE INSTALLED AT RIGHT ANGLES TO STRUCTURE.
- CONDUITS SHALL BE EMBEDDED IN CONCRETE AND ADEQUATELY SUPPORTED.
- WHERE CONDUITS INTERFERE WITH REINFORCING THE CONDUIT SHALL BE REARRANGED
- CONDUIT WALL SEALS WITH WATERSTOPS SHALL BE INSTALLED IN OUTSIDE WALLS. THE CONDUIT SEALS SHALL ENSURE A WATERTIGHT INSTALLATION.

OPEN WEB STEEL JOIST

- MANUFACTURED OPEN WEB STEEL JOISTS SHALL CONFORM TO THE LATEST EDITION OF CAN/CSA-S16-19 AND CISC "RECOMMENDED PRACTICE".
- 2. OWSJ DESIGN BY OWSJ MANUFACTURER. PROVIDE JOIST FABRICATION SHOP DRAWINGS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF ALBERTA. OWSJ MANUFACTURER TO INDICATED LOCATIONS AND SIZE OF JOIST BRACING ON SHOP DRAWINGS PROVIDED TO THE PROJECT ENGINEER.
- 3. JOISTS TO BE WELDED CONSTRUCTION. NO HOLES TO BE DRILLED FOR HANGERS.
- 4. ALL JOISTS SHALL HAVE HOT ROLLED DOUBLE ANGLE TOP AND BOTTOM CHORDS.
- BEARING ENDS OF JOISTS SHALL BE 125mm DEEP (JOIST SHOE). CONNECT JOISTS TO SUPPORTING MEMBERS BY WELDING ONLY.
- 6. EXTEND JOIST TOP CHORDS TO SUPPORT DECK AND SIDING WHERE REQUIRED.
- 7. CAMBER JOISTS FOR 75% DEAD LOADS ONLY.
- ALL BASE PLATES AND ANCHORING FOR OWSJ TO BE AS PER MANUFACTURER.
- 9. FULLY GROUT VERTICAL CELLS AT OWSJ BEARING ON LOCATION.

ABBREVIATIONS

BUL BOT

ASPHALT IMPREGNATED FIBRE BOARD

BOTTOM LOWER LAYER

BOTTOM UPPER LAYER

CANTILEVER CAST-IN-PLACE CENTER LINE CLEAR, CLEARANCE COLS COLUMNS

BOTTOM

CONC CONCRETE CONT CONTINUOUS C/W COMPLETE WITH

DEGREE

DIA DIAMETER DEAD LOAD DN DOWN

DEEP DWG DRAWING EΑ EACH **EACH FACE**

ELEVATION EW **EACH WAY EXIST EXISTING** GA. GAUGE

GALV GALV. HOOK HORIZ HORIZONTAL

ΙF **INSIDE FACE** INVERT INV **KILONEWTON**

KILOPASCAL LONG

LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL

METER MAXIMUM MIDDLE MINIMUM

MILLIMETER MPa NOT IN CONTRACT

NTS NOT TO SCALE OC ON CENTER OUTSIDE FACE

OPPOSITE PLUS MINUS

PRESSURE TREATED REFERENCE

REINFORCEMENT REINF REINFORCED WITH

SUPERIMPOSED DEAD LOAD SIMILAR SNOW LOAD

SERVICEABILITY LIMIT STATE TOP AND BOTTOM T.O. TOP OF

TOP LOWER LAYER TUL TOP UPPER LAYER TYP TYPICAL

U/G **UNDER GROUND** ULS ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE UNO

UNDER SIDE

VERT VERTICAL WIND LOAD

U/S

CONSULTANT

AECOM Canada Architects Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4

PROJECT

FORT McMURRAY AIRPORT RENTAL CAR **WASH / QTA FACILITY**

FORT MCMURRAY, ALBERTA

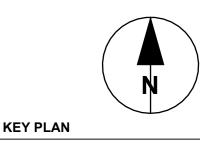
PROJECT NUMBER 60723990

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NORTH ARROW AND KEYPLAN



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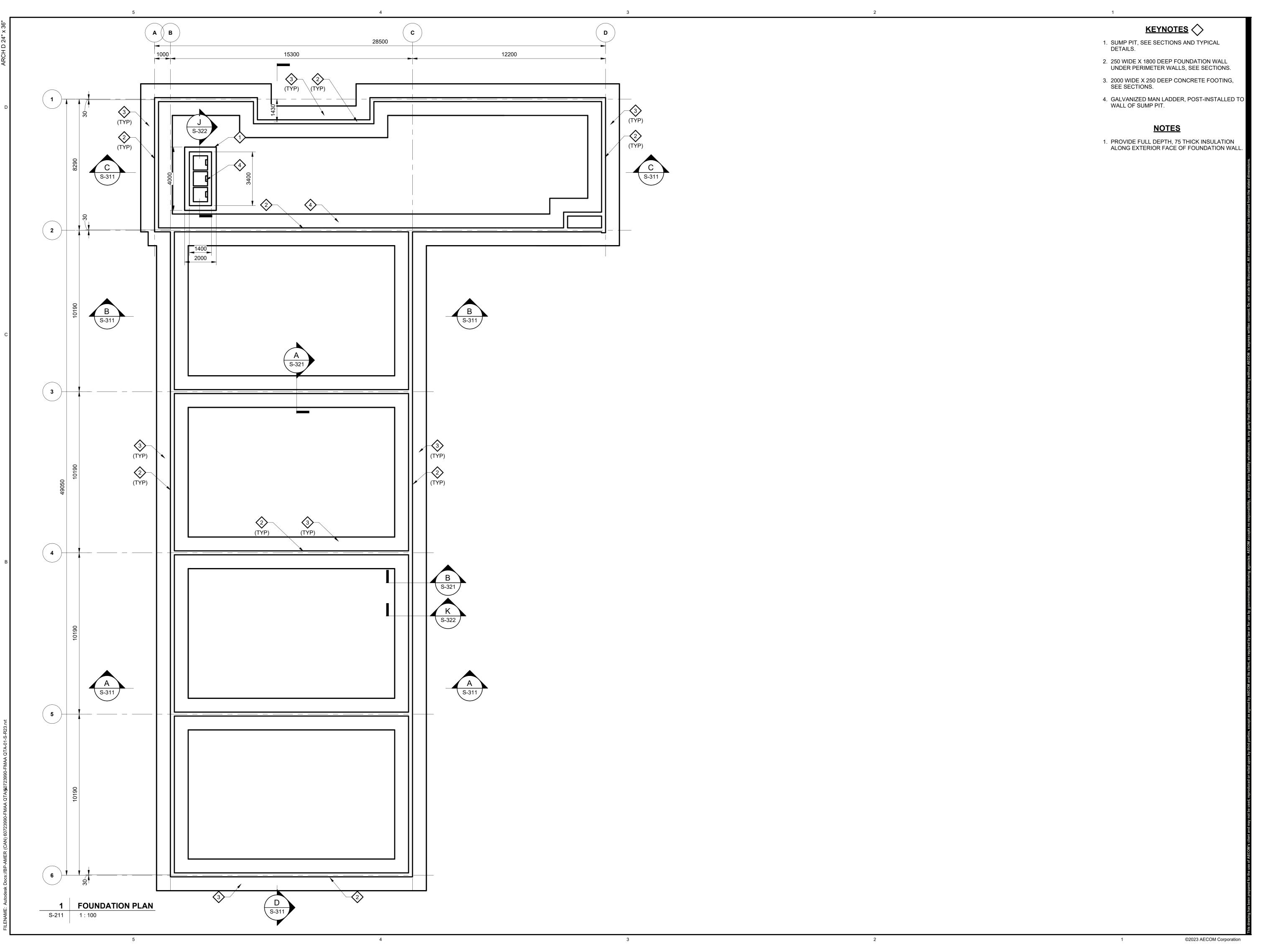
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SHEET TITLE

STRUCTURAL NOTES AND **ABBREVIATIONS**

SHEET NUMBER



CONSULTANT

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PROJECT

FORT McMURRAY AIRPORT RENTAL CAR WASH / QTA FACILITY

FORT MCMURRAY, ALBERTA

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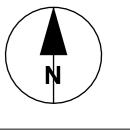
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FORT McMURRAY
INTERNATIONAL AIRPORT

REGISTERED OWNER: FORT McMURRAY AIRPORT AUTHORITY

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NORTH ARROW AND KEYPLAN



KEY PLAN

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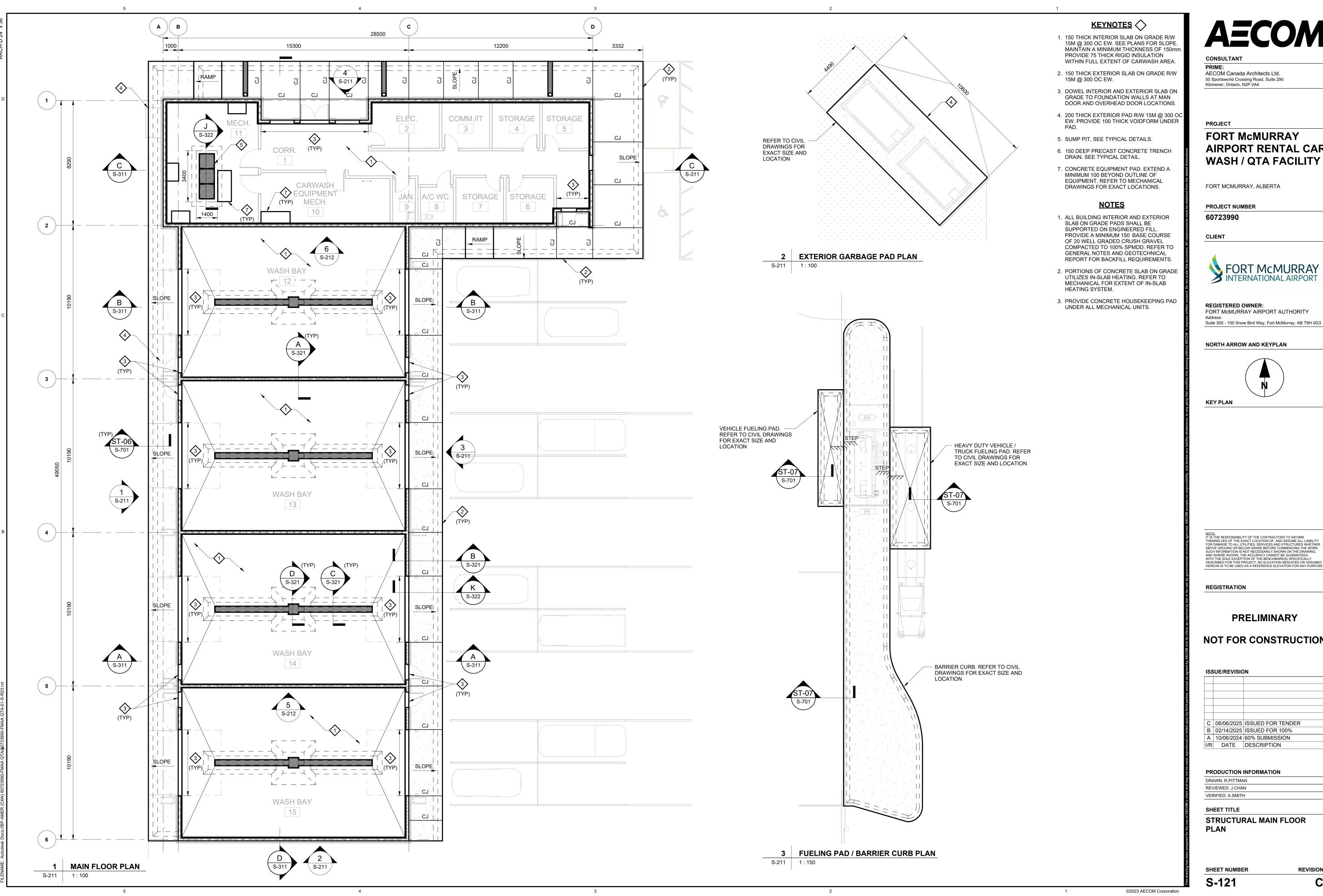
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FORT McMURRAY **AIRPORT RENTAL CAR WASH / QTA FACILITY**

FORT MCMURRAY, ALBERTA

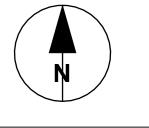
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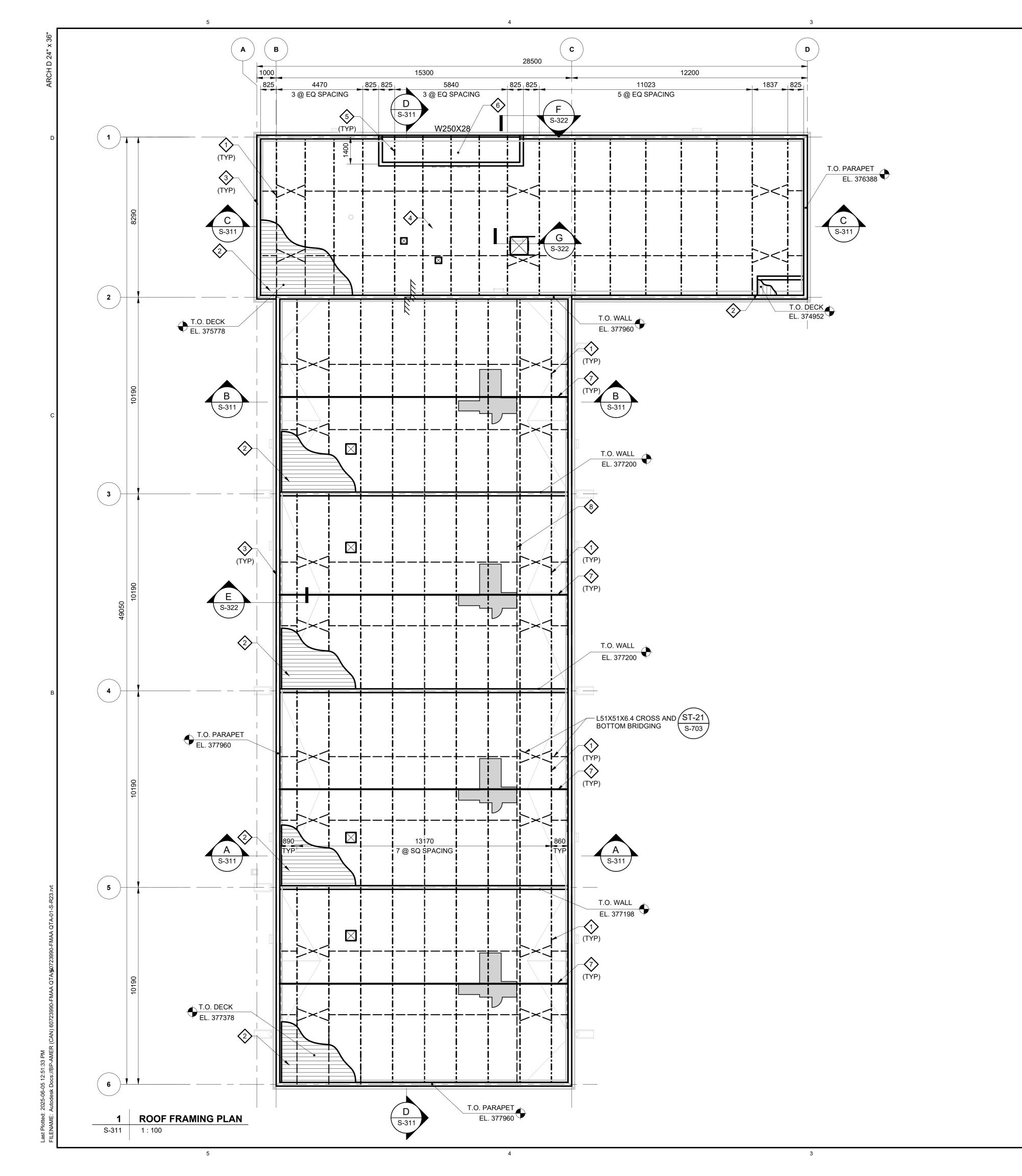
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KEYNOTES \Diamond

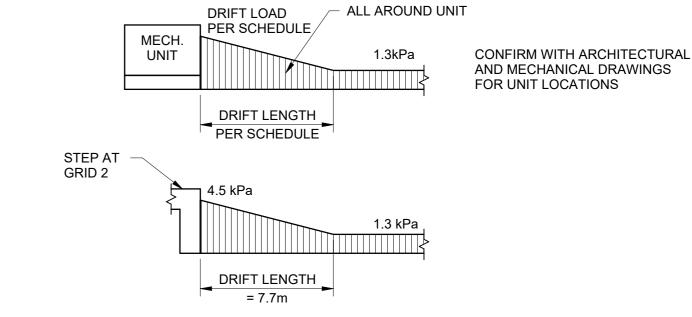
- 1. 610 DEEP OWSJ @ 1800 OC MAXIMUM.
- 2. 0.76 THICK CANAM P-3615 AND P3606 STEEL DECK OR APPROVED EQUIVALENT (MINIMUM 3 SPAN CONTINUOUS WHERE POSSIBLE).
- 3. 190 CMU WALL. REFER TO ELEVATION AND GENERAL NOTES FOR REINFORCING
- 4. ADJUST L-ANGLE FRAMING SPACING TO FIT HATCH DOOR. PROVIDE L203X203X13 ANGLE AT LADDER TIE-IN TO ALLOW FOR SLIP CONNECTION. SEE SECTION F/S-321.
- 5. JOIST TOP CHORD EXTENSION, BEAR ON SUPPORTING W250.
- 6. SUSPENDED SOFFIT W/ LIGHT-GAUGE STEE FRAMING BY STEEL FABRICATOR. MAKE ATTACHMENTS TO CMU WALL AS REQUIRED DESIGN SOFFIT TO:

DEAD LOAD = 1.0 kPa + SELF WEIGHT WIND (SUCTION) = 0.85 kPa

- 7. PROVIDE GALVANIZED UNDER-RUNNING C200X17 W/ DRAIN HOLES TO MOUNT CAR WASH EQUIPMENT. CONNECT TO BOTTOM CHORD OF INTERSECTING OWSJ AND LOCATE MEMBER TO ALIGN WITH A VERTICAL ELEMENT OF THE OWSJ.
- 8. TEMPERED WATER PIPING ALONG BOTTOM CHORD OF JOIST. PROVIDE GALVANIZED STEEL SUPPORTS AS REQUIRED. CONFIRM WALL PENETRATION SIZE WITH CAR WASH SUPPLIER PRIOR TO CMU WALL CONSTRUCTION.

MECHANICAL UNIT AND SNOW DRIFT SCHEDULE						
UNIT	ROUGH DIMENSIONS (LxWxH)	DESIGN WEIGHT	DRIFT LOAD	DRIFT LENGTH		
MUA-1	2.85m X 1.02m X 1.88m	6.0 kN	1.3 kPa	N/A		
MUA-2	2.85m X 1.02m X 1.88m	6.0 kN	1.3 kPa	N/A		
MUA-3	2.85m X 1.02m X 1.88m	6.0 kN	1.3 kPa	N/A		
MUA-4	2.85m X 1.02m X 1.88m	6.0 kN	1.3 kPa	N/A		

* HEIGHT INCLUSIVE OF BURB HEIGHT



OWSJ & STEEL DECK DESIGN NOTES

- 1. REFER TO RELEVANT SECTIONS IN GENERAL NOTES AND SPECIFICATIONS. SHOULD GENERAL NOTES AND SPECIFICATIONS CONTRADICT ONE ANOTHER, THE MORE STRINGENT REQUIREMENT
- 2. ROOF DESIGN CRITERIA:
- DEAD LOAD = 1.3 kPa + SELF WEIGHT AND WEIGHT AS PER MECHANICAL UNIT SCHEDULE SNOW LOAD = 1.3 kPa + SNOW DRIFT AS PER SNOW DRIFT SCHEDULE CONCENTRATED LIVE LOAD @ UNDER-RUNNING EQUIPMENT CHANNEL = 2.0 kN

LIVE LOAD DEFLECTION = L/240 TOTAL LOAD DEFLECTION = L/180

DESIGN OWSJ AS PER LOAD COMBINATION REQUIREMENTS SET OUT IN NBCAE 2023. SNOW LOADS SHOWN FOR ULTIMATE LIMIT STATE (ULS), FOR SERVICEABILITY LIMIT STATE (SLS)

- 3. PROVIDE ADDITIONAL JOIST BRIDGING AS REQUIRED TO SUPPORT OWSJ SYSTEM.
- 4. PROVIDE FRAMING AS REQUIRED TO SUPPORT MECHANICAL UNITS AND LIGHTING. SEE TYPICAL DETAILS FOR FRAMING AROUND MECHANICAL UNITS.
- 5. CONNECT STEEL DECK USING HILTI X-EDN 19 OR EDNK22 IN A (36/7) PATTERN, SCREW SIDELAPS USING #10 SCREWS @ 600 OC.
- 6. CONNECT DECK TO SUPPORTING MEMBERS USING HILTI HILTI X-EDN 19 OR EDNK22 @ 500 OC.
- 7. STEEL MANUFACTURER TO REINFORCE STEEL DECK AS REQUIRED FOR ROOF PENETRATIONS LARGER THAN 150mm X 150mm OR 150mm DIAMETER.
- 8. PROVIDE ADDITIONAL FRAMING BETWEEN OWSJ TO SUPPORT MECHANICAL UNITS OR AROUND
- OPENINGS. SEE TYPICAL DETAILS.
- 9. PERIMETER ANGLES ALONG GRIDS A, B, C AND D TO BE CONTINUOUS OR SPLICED TO DEVELOP A FACTORED AXIAL LOAD OF 100 kN.

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STRUCTURAL ROOF FRAMING PLAN

SHEET NUMBER

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PROJECT

FORT McMURRAY AIRPORT RENTAL CAR WASH / QTA FACILITY

FORT MCMURRAY, ALBERTA

PROJECT NUMBER 60723990

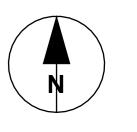
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NORTH ARROW AND KEYPLAN



KEY PLAN

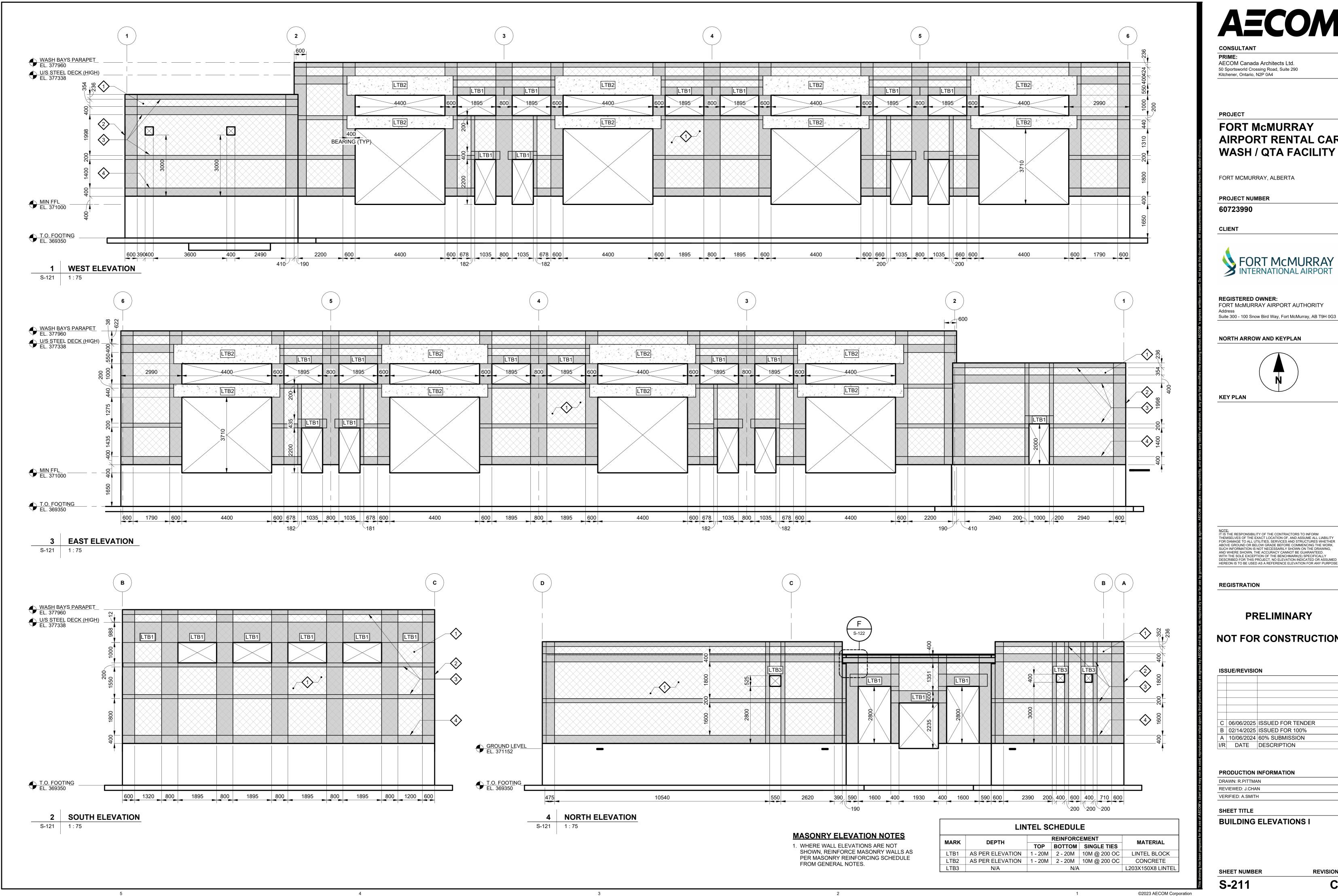
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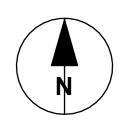
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FORT McMURRAY INTERNATIONAL AIRPORT

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PRODUCTION INFORMATION

BUILDING ELEVATIONS I

U/S STEEL DECK (HIGH) EL. 377338 T.O. FOOTING EL. 369350 14100 5 TYPICAL CAR WASH PARTITION ELEVATION S-121 1 : 75 WASH BAYS PARAPET EL. 377960 U/S STEEL DECK (HIGH)
EL. 377338 LTB1 MIN FFL EL. 371000 1000 400 2210 190 400 420 810 14070 9000 6 GRID 2 ELEVATION S-121 1 : 75

KEYNOTES \diamondsuit

1. 190 CMU WALL: 20M VERT @ 1200 OC 20M HORIZ @ 2400 OC INCLUDE 8 GA LADDER REINF AT EVERY COURSE.

LINTEL SCHEDULE

LTB1 AS PER ELEVATION 1 - 20M 2 - 20M 10M @ 200 OC LINTEL BLOCK

LTB2 AS PER ELEVATION 1 - 20M 2 - 20M 10M @ 200 OC CONCRETE

MARK

LTB3

N/A

REINFORCEMENT

TOP BOTTOM SINGLE TIES

N/A

MATERIAL

L203X150X8 LINTEL

2. SHADED VERTCAL AREA DENOTES REINFORCED AND GROUT FILLED CORES. ALL SHADED AREAS ARE REINOFORCED WITH 20M REBAR (TYP) AND FILLED WITH 15 MPa GROUT MIX. WHERE ELEVATION SHOW VERT. CORE SPACING BEYOND 1200, FOLLOW NOTE 1.

3. CONTINUOUS BOND BEAM R/W 1-20M (TYP).

4. 400 BOND BEAM AT BASE OF CMU WALLS (TYP). PROVIDE CONT. 20M AT BOTTOM COURSE.

MASONRY ELEVATION NOTES

1. WHERE WALL ELEVATIONS ARE NOT SHOWN, REINFORCE MASONRY WALLS AS PER MASONRY REINFORCING SCHEDULE FROM GENERAL NOTES.

AECOM

CONSULTANT

AECOM Canada Architects Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4

PROJECT

FORT McMURRAY AIRPORT RENTAL CAR WASH / QTA FACILITY

FORT MCMURRAY, ALBERTA

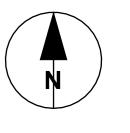
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NORTH ARROW AND KEYPLAN



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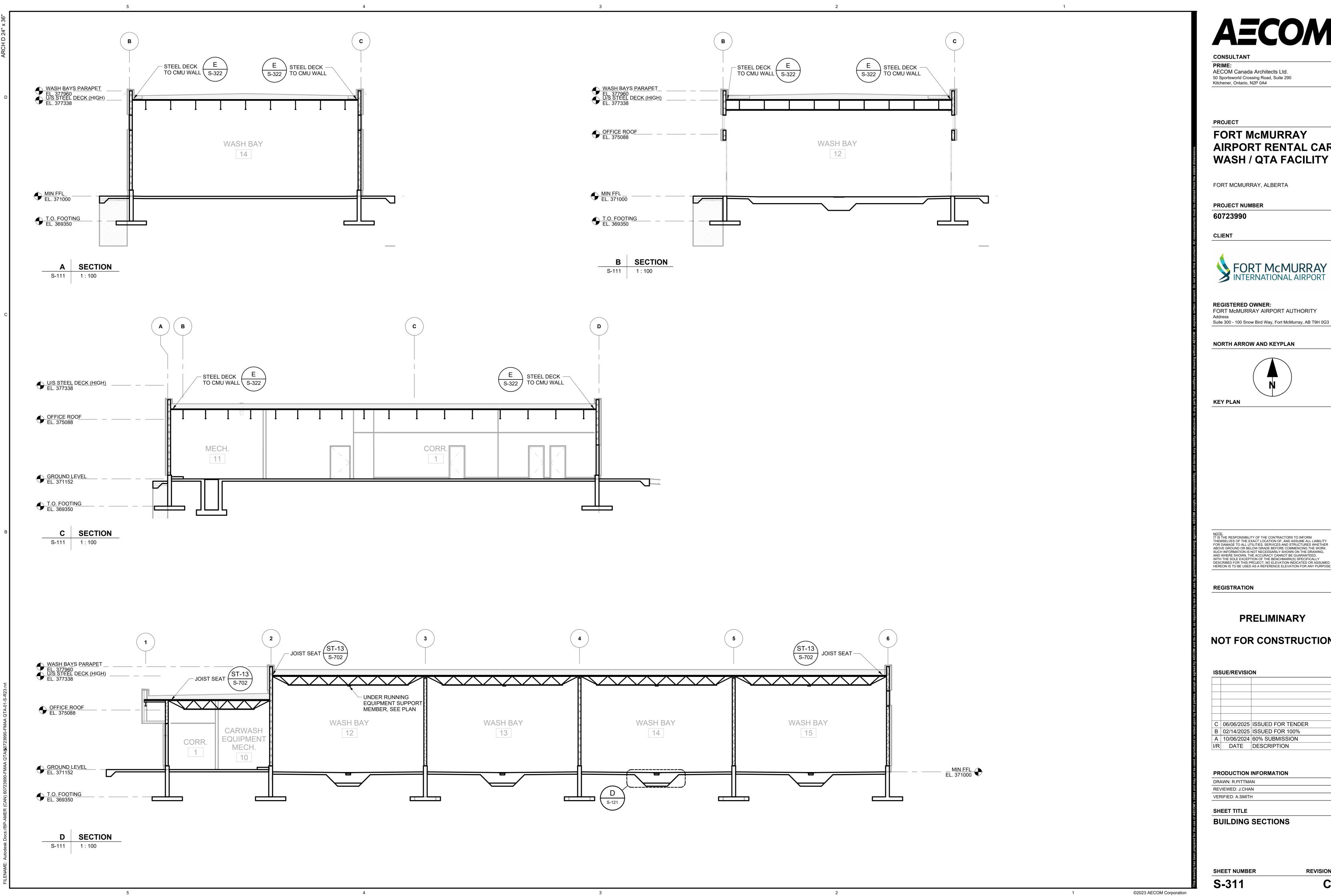
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BUILDING ELEVATIONS II

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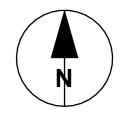
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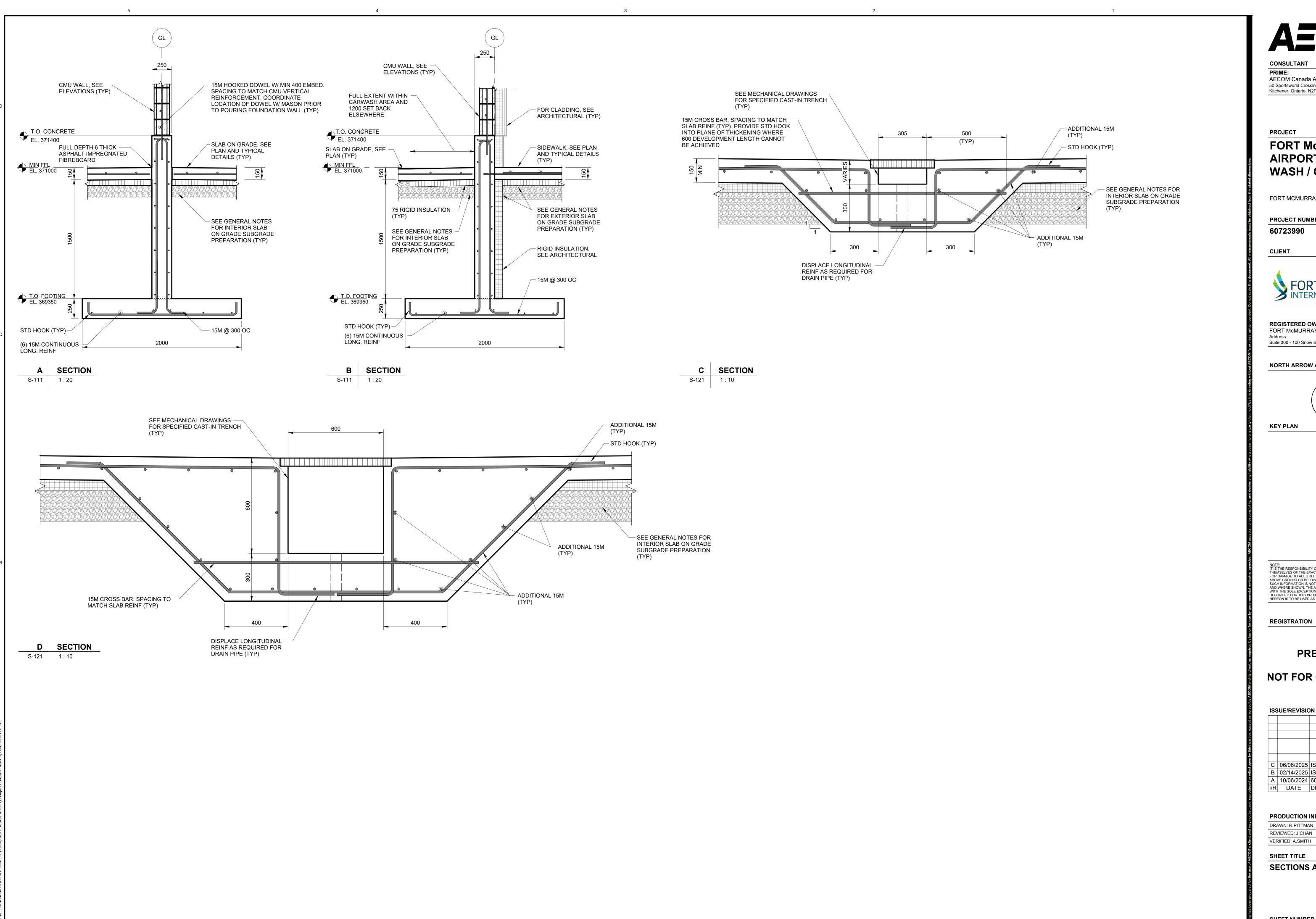
C 06/06/2025 ISSUED FOR TENDER B | 02/14/2025 | ISSUED FOR 100% A 10/06/2024 60% SUBMISSION

I/R DATE DESCRIPTION

REVIEWED: J.CHAN

BUILDING SECTIONS

SHEET NUMBER



CONSULTANT

AECOM Canada Architects Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4

PROJECT

FORT McMURRAY AIRPORT RENTAL CAR WASH / QTA FACILITY

FORT MCMURRAY, ALBERTA

PROJECT NUMBER

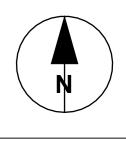
CLIENT



REGISTERED OWNER: FORT McMURRAY AIRPORT AUTHORITY

Suite 300 - 100 Snow Bird Way, Fort McMurray, AB T9H 0G3

NORTH ARROW AND KEYPLAN



NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM
THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY
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VERIFIED: A.SMITH

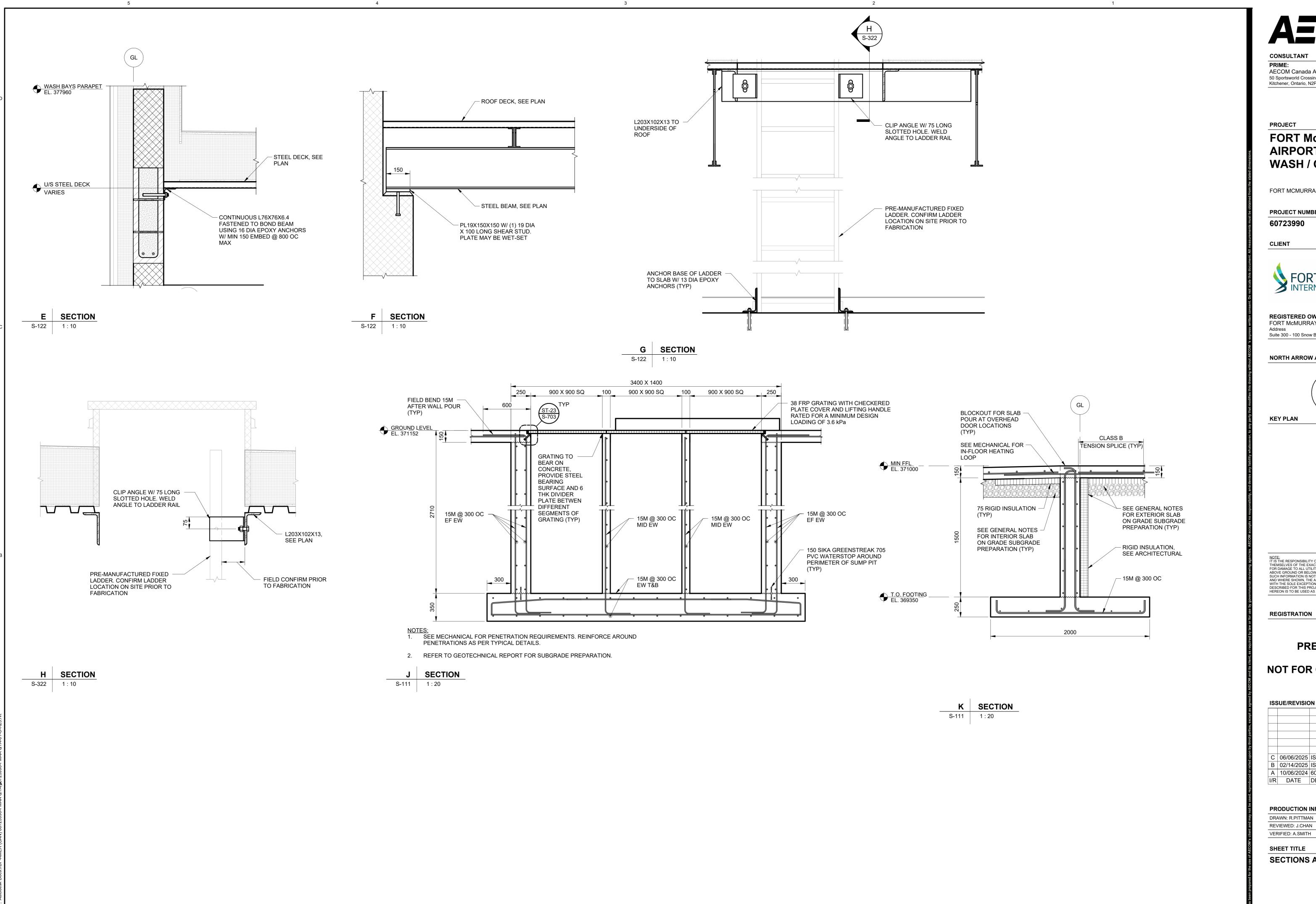
SHEET TITLE

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SECTIONS AND DETAILS I

SHEET NUMBER

S-321



CONSULTANT

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PROJECT

FORT McMURRAY AIRPORT RENTAL CAR WASH / QTA FACILITY

FORT MCMURRAY, ALBERTA

PROJECT NUMBER

60723990

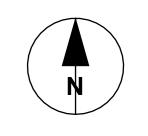
CLIENT



REGISTERED OWNER: FORT McMURRAY AIRPORT AUTHORITY

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NORTH ARROW AND KEYPLAN



KEY PLAN

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VERIFIED: A.SMITH

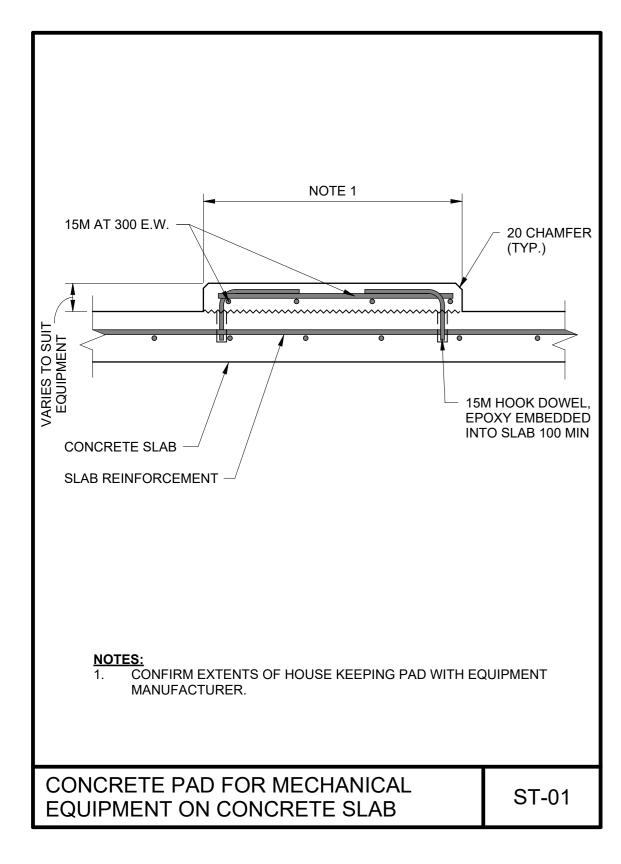
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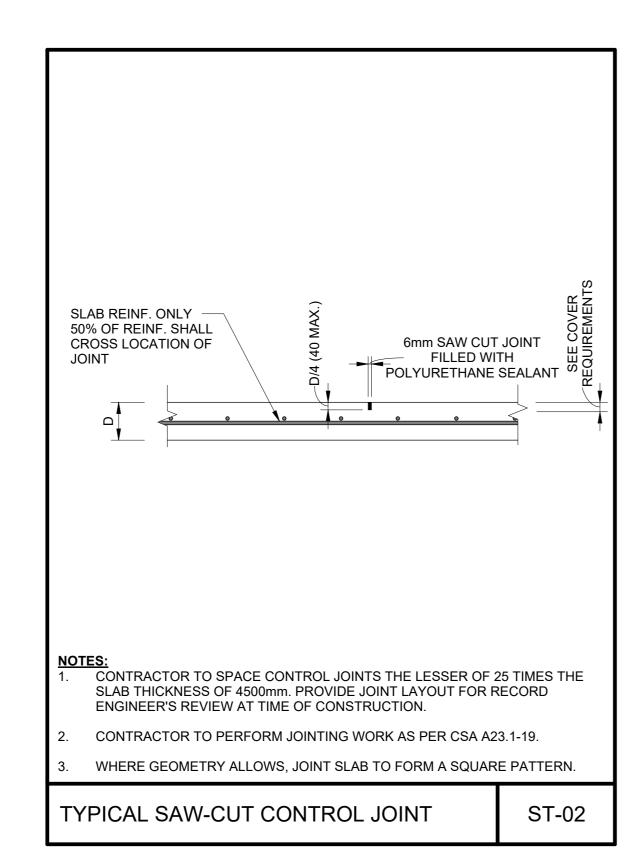
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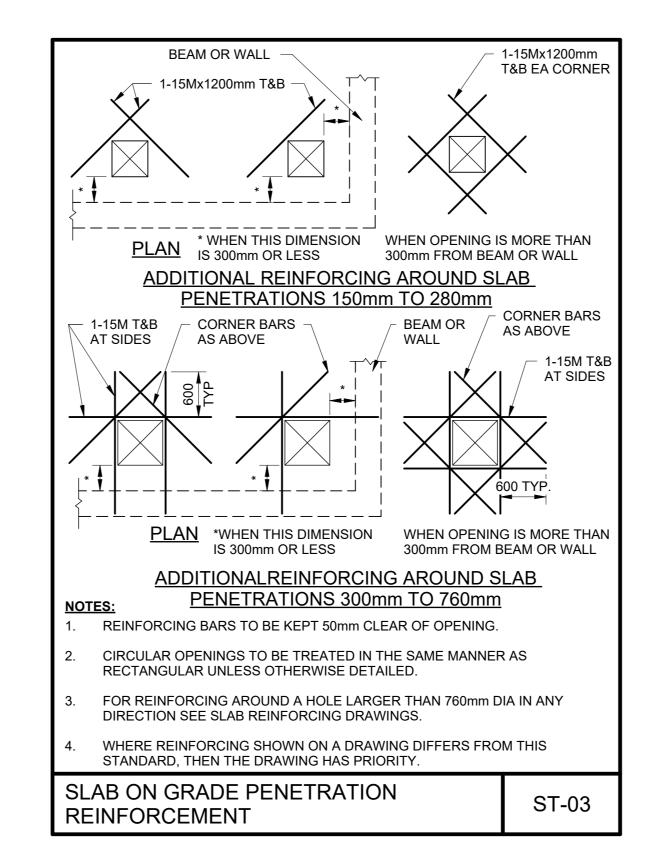
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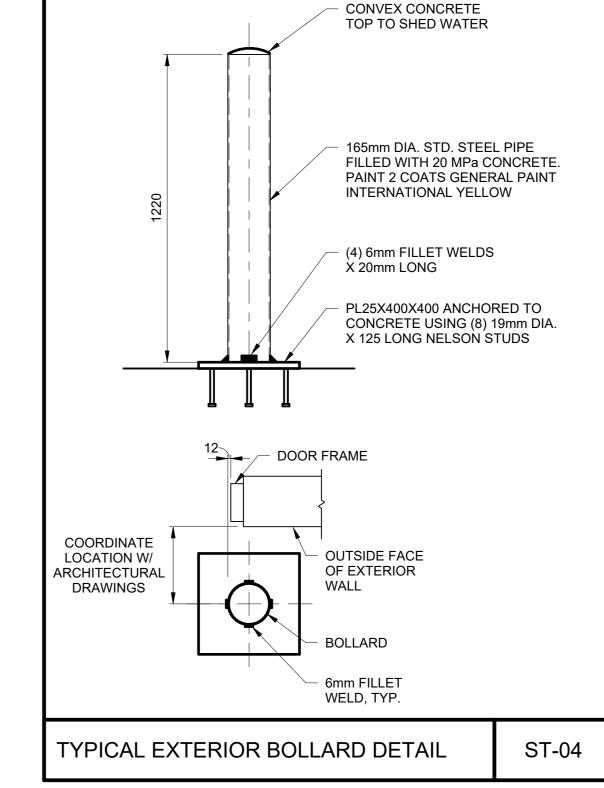
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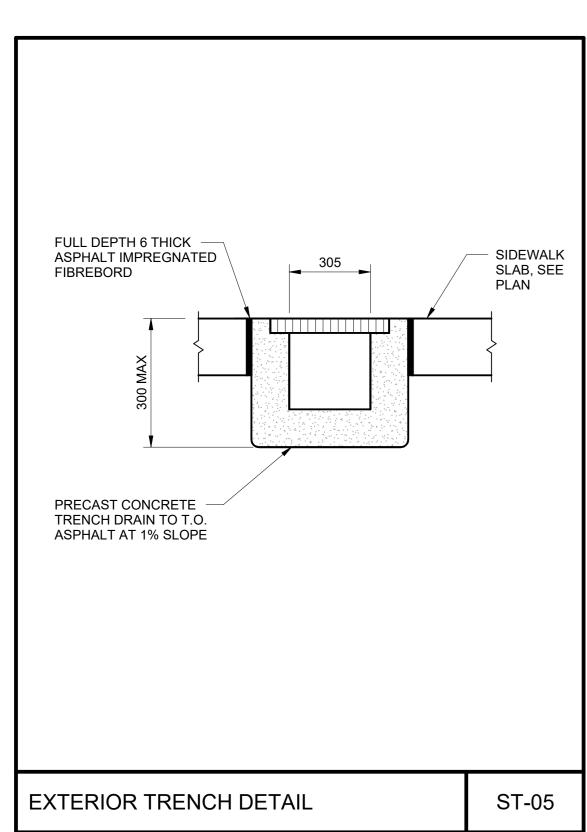
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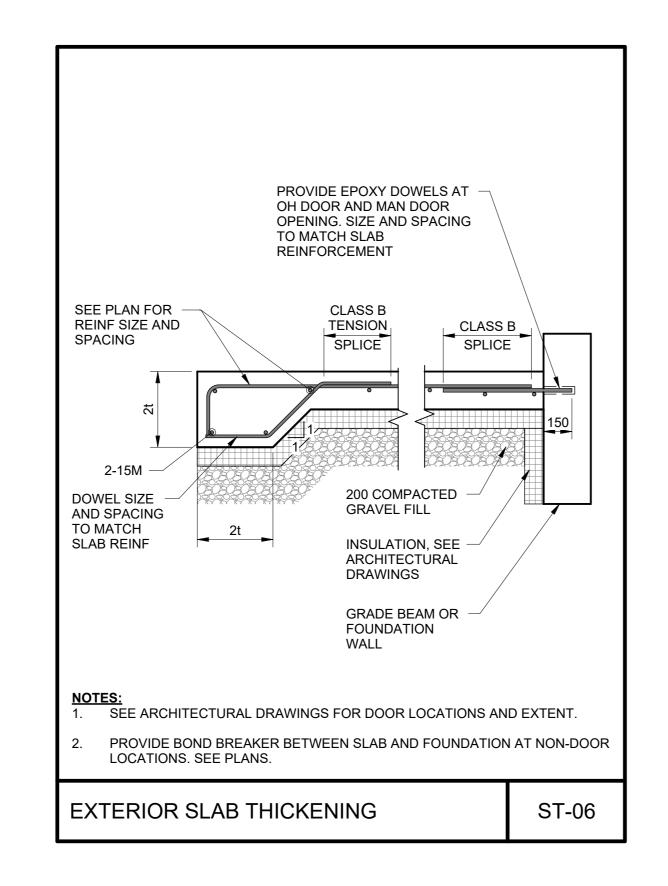


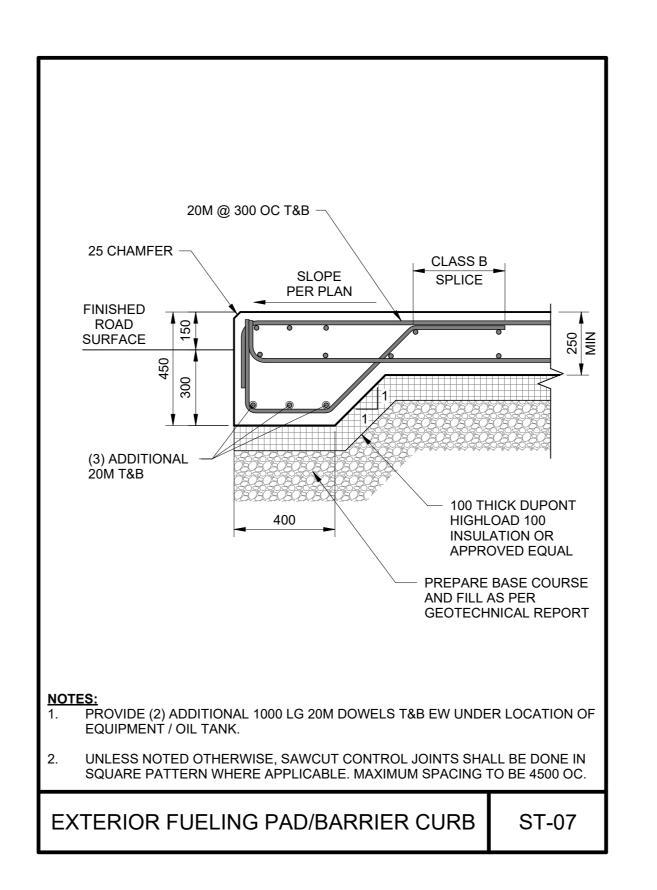


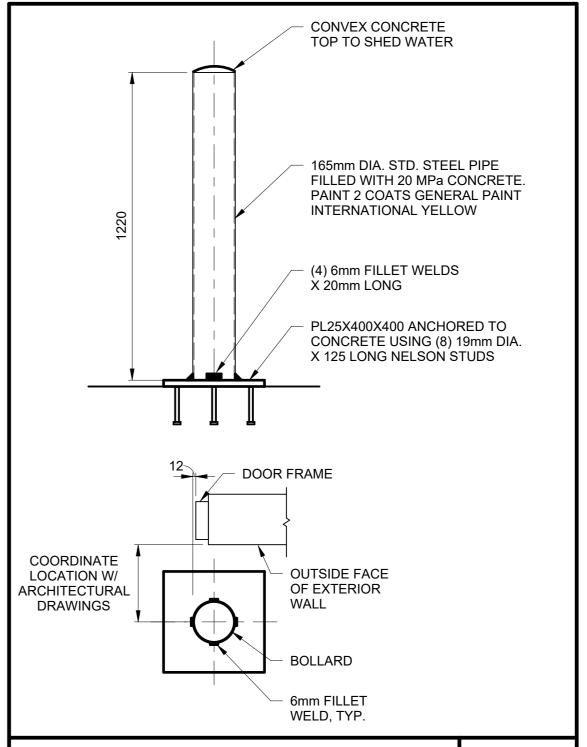












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PROJECT

FORT McMURRAY AIRPORT RENTAL CAR WASH / QTA FACILITY

FORT MCMURRAY, ALBERTA

PROJECT NUMBER

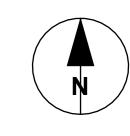
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CLIENT



REGISTERED OWNER: FORT McMURRAY AIRPORT AUTHORITY Suite 300 - 100 Snow Bird Way, Fort McMurray, AB T9H 0G3

NORTH ARROW AND KEYPLAN



KEY PLAN

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SHEET TITLE **TYPICAL DETAILS I**

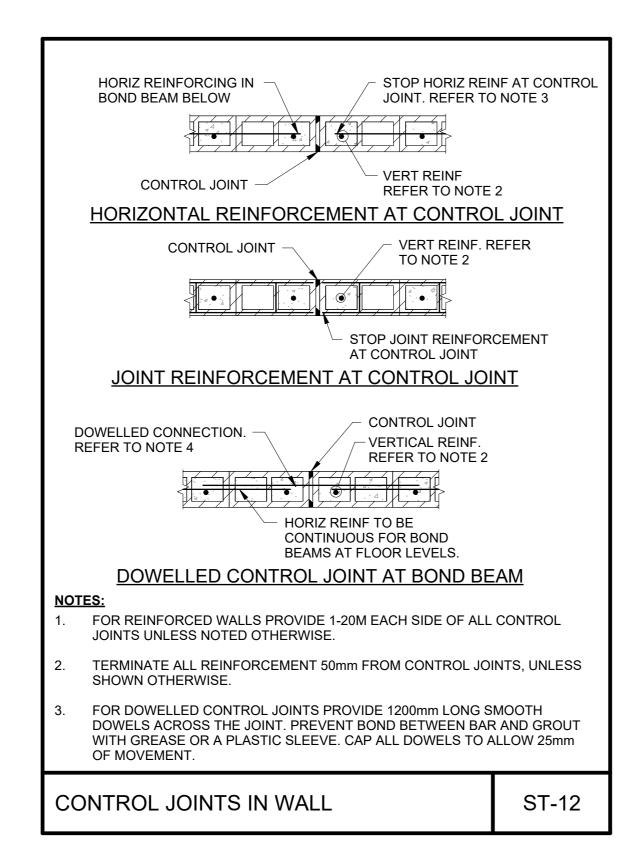
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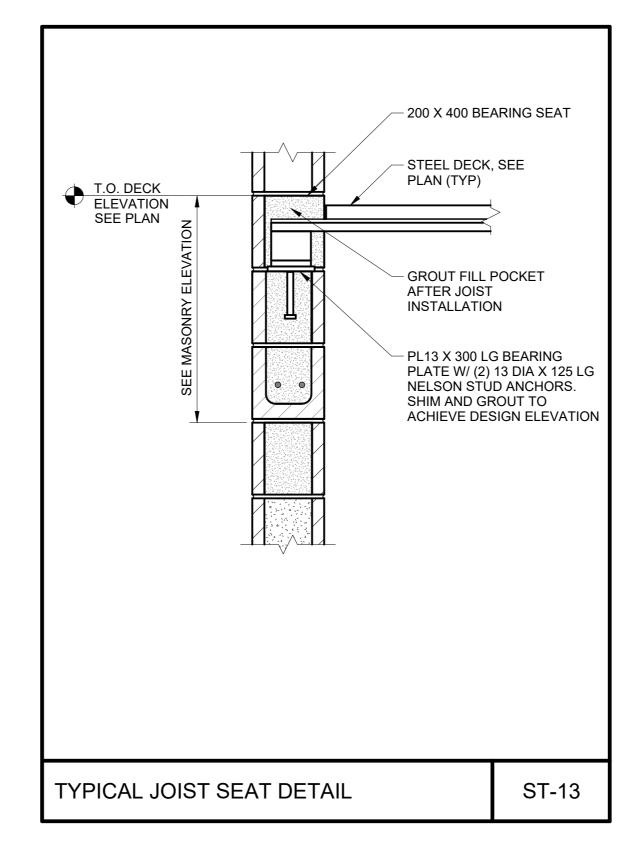
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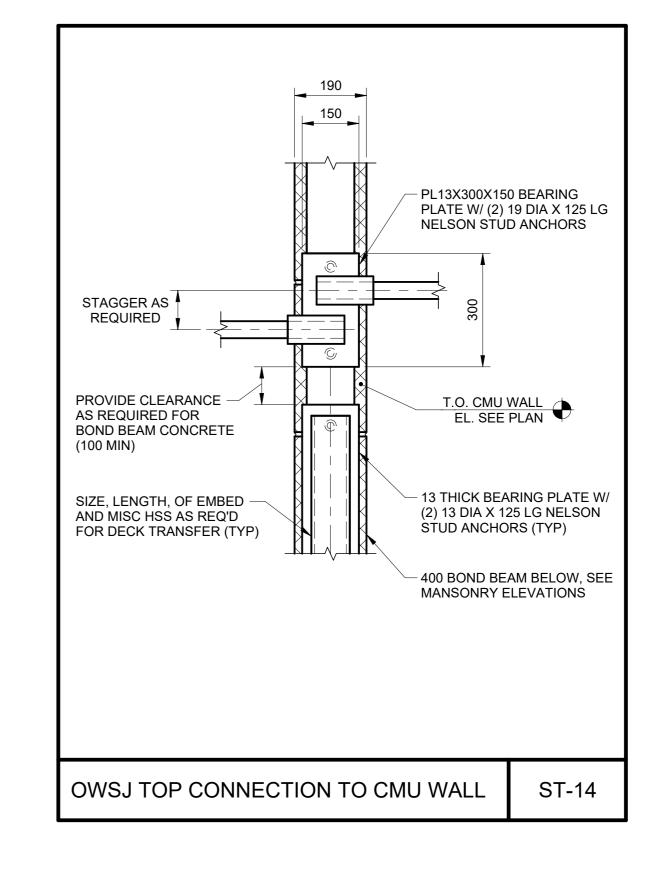
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ST-11

REINFORCED MASONRY WALL









CONSULTANT

PRIME:
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Kitchener, Ontario, N2P 0A4

PROJECT

FORT McMURRAY AIRPORT RENTAL CAR WASH / QTA FACILITY

FORT MCMURRAY, ALBERTA

PROJECT NUMBER

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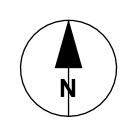
CLIENT



REGISTERED OWNER: FORT McMURRAY AIRPORT AUTHORITY Address

Address
Suite 300 - 100 Snow Bird Way, Fort McMurray, AB T9H 0G3

NORTH ARROW AND KEYPLAN



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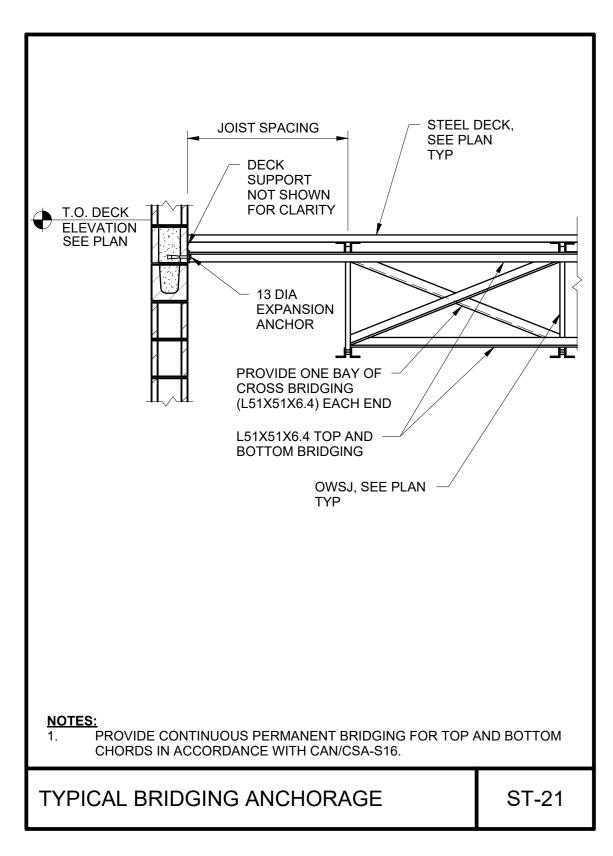
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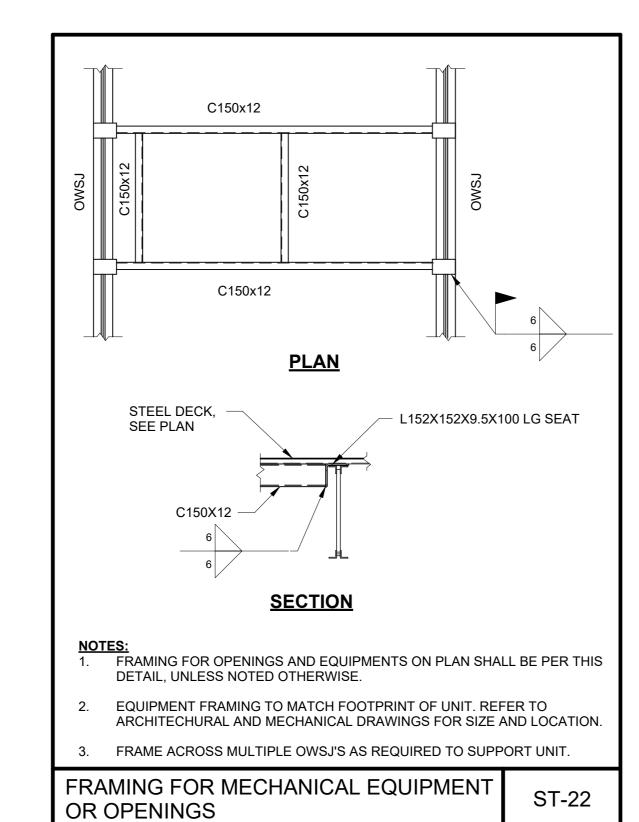
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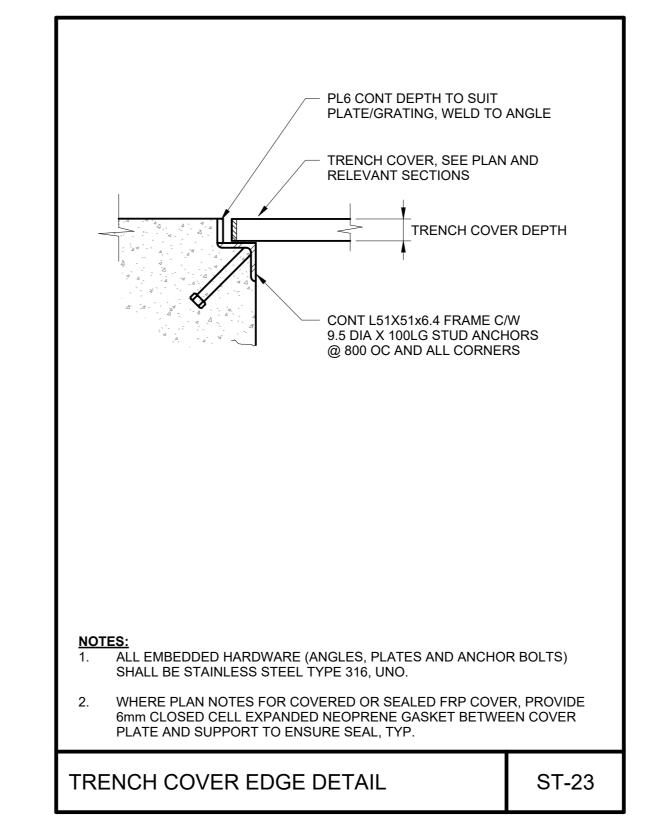
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702

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PROJECT

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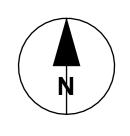
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NORTH ARROW AND KEYPLAN



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TYPICAL DETAILS III

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