GENERAL NOTES:

- ALL WORK TO BE IN ACCORDANCE WITH ALBERTA BUILDING CODE 2006
- READTHE CONSTRUCTION DRAWINGS IN CONJUNCTION WITH THE ARCH., MECH., AND ELECT. DRAWINGS. REPORT ANY INCONSISTENCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- FOR THE PURPOSES OF THESE DRAWINGS, THE ENGINEER IS KASSIAN DYCK AND ASSOCIATES.
- THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION" IN THE REVISIONS COLUMN BY KASSIAN DYCK & ASSOCIATES.
- ALL EXISTING DIMENSIONS, ELEVATIONS, AND EXISTING STRUCTURAL SYSTEMS SHOWN ON THE STRUCTURAL DRAWINGS ARE TO BE VERIFIED ON SITE PRIOR TO CONSTRUCTION, AND DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER BEFORE PROCEEDING.
- ALL SECTIONS, DETAILS, AND STATEMENTS ARE TYPICAL AND APPLY TO ALL SIMILAR SITUATIONS IN THE STRUCTURE
- DRAWINGS SHOW COMPLETED STRUCTURES ONLY. THE DRAWINGS DO NOT SHOW COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND ABOUT THE JOB SITE DURING CONSTRUCTION. THE CONTRACTOR IS TO DESIGN AND PROVIDE ALL TEMPORARY BRACING, SHORING, AND FORMWORK FOR CONSTRUCTION LOADING CARRIED OUT BY A PROFESSIONAL ENGINEER REGISTERED IN ALBERTA. CONSTRUCTION LOADS ON PERMANENT STRUCTURE SHALL NOT EXCEED DESIGN LOADS.
- FOR TEMPORARY SUPPORT OR STABILITY DURING STEEL ERECTION. CONTRACTOR TO PROVIDE AND INSTALL ALL NECESSARY TEMPORARY BRACING, SHORING AND SAFETY PROTECTION TO KEEP THE STRUCTURE SAFE, TRUE AND PLUMB. DO NOT REMOVE TEMPORARY BRACING UNTIL APPROVED IN WRITING BY KASSIAN DYCK & ASSOCIATES.
-). ALL TEMPORARY SAFETY GUARDS SHALL BE THE CONTRACTORS RESPONSIBILITY
- 1. SUBMIT TO THE ENGINEER FOR REVIEW 4 COPIES OF THE FOLLOWING SHOP DRAWINGS
- 12. SHOP DRAWINGS NOT STAMPED, SIGNED AND DATED WILL BE RETURNED WITHOUT BEING EXAMINED AND WILL BE CONSIDERED
- 13. FULLY DETAIL SHOP DRAWINGS AND SHOW ALL INFORMATION NECESSARY FOR FABRICATION AND INSTALLATION
- 14. DO NOT COMMENCE FABRICATION UNTIL REVIEW OF RETURNED SHOP DRAWINGS
- 5. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE REVIEW 27. SLAB ON GRADE WILL SHRINK AND SETTLE DUE TO BACKFILL DEPTH AND EXISTING SOIL CONDITIONS. MINOR CRACKING OF SLAB ON OF SHOP DRAWINGS BY THE ENGINEER IS FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL STRUCTURAL DESIGN CONCEPT AND THE EXTENT OF THIS REVIEW IS AT THE SOLE DISCRETION OF THE ENGINEER. THIS REVIEW IS NOT AN APPROVAL OF THE DESIGN, DETAILS AND DIMENSIONS INHERENT IN THE SHOP DRAWINGS. THIS REVIEW DOES NOT MEAN THAT THE ENGINEER APPROVES THE DESIGN OR DETAILS INHERENT IN THE SHOP DRAWINGS. THE RESPONSIBILITY FOR WHICH REMAINS WITH THE CONTRACTOR. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DO CUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND COORDINATED AT THE JOB SITE, FABRICATION PROCESSES, TECHNIQUES OF CONSTRUCTION AND INSTALLATION, AND FOR COORDINATION THE WORK OF ALL SUBTRADES.
- 3. THE CONTRACTOR SHALL EXAMINE THE SITE AND THE SUBSURFACE INVESTIGATION REPORT AND A CCEPT ALL CHARACTERISTICS AND IRREGULARITIES OF THIS SITE

7. DESIGN LOADS

SPECIFIED UNIFORM LOADS:
SUPERIMPOSED DEAD LOAD (SDL-EXCLUDES SELF WEIGHT OF ROOF/FLOOR STRUCTURE) LIVE LOAD (LL) SNOWLOAD(SL)

MAIN FLOOR: SDL = 0.72 KPA; LL = 4.8 KPA

ROOF

DL = 1.65 KPA, SL = 1.8 kPa (38 PSF) + DRIFT AS NOTED ON PLAN PONDING AS NOTED ON PLAN LL = 1.0 KPA (21 PSF)

SPECIFIED CONCENTRATED LIVE LOADS:

2 KN AT A NY JOIST PANEL POINT

Sa(0.2) = 0.12 Sa(0.5) = 0.06 Sa(1.0) = 0.02 Sa(2.0) = 0.01SELSMIC: PGA = 0.06 SITE CLASS C

SEISMIC LOAD RESISTING SYSTEM IS A CONVENTIONAL CONSTRUCTION BRACED FRAME WITH

q50 = 0.40 kPa (8 PSF) WIND: NET FACTORED WIND UPLIFT LOADS ON ROOFS = 1.0 kPa (21 PSF) UNLESS NOTED OTHERWISE

GENERAL NOTES (cont.)

18. STRUCTURE WILL MOVE DUE TO IMPOSED LOADS, SHRINKAGE THERMAL EFFECTS, AND/OR FOUNDATION SETTLEMENT. THE FOLLOWING ESTIMATED MOVEMENTS ARE TO BE ACCOMMODATED BY NON-STRUCTURAL ELEMENTS ATTACHED TO STRUCTURE.. DESIGN AND DETAILING OF NON-STRUCTURAL ELEMENTS TO BE BY OTHERS.

18. STRUCTURE WILL MOVE DUE TO IMPOSED LOADS, SHRINKAGE THERMAL EFFECTS, AND/OR FOUNDATION SETTLEMENT. THE FOLLOWING ESTIMATED MOVEMENTS ARE TO BE ACCOMMODATED BY NON-STRUCTURAL ELEMENTS ATTACHED TO STRUCTURE.. DESIGN AND DETAILING OF NON-STRUCTURAL ELEMENTS TO BE BY OTHERS.

20. CEMENT: NORMAL PORTLAND CEMENT TO CAN/CSA-A5, TYPE GU OR SULPHATED TO CAN/CSA-A5. TYPE GU OR SULPHATED TO CAN/CSA-A5.

- MOVEMENT AT EXPANSION JOINTS: - VERTICAL

- PERPENDICULAR TO JOINT - PARALLEL TO JOINT

- HORIZONTAL DRIFT DURING WIND AND SEISMIC BETWEEN FLOORS.

- ± 13 mm WITHOUT DAMAGE TO NON-STRUCTURAL ELEMENTS ± 50 mm WITHOUT COLLAPSE OF NON-STRUCTURAL ELEMENTS
- DIFFERENTIAL VERTICAL MOVEMENT OF ADJACENT COLUMNS AND WALLS: 15 mm
- 19. CONTRACTOR'S CONSTRUCTION LOADS MUST NOT EXCEED THE ABOVE DESIGN LOADS. DESIGN LOADS MAY ONLY BE APPLIED AFTER THE
- 20. UNDERPIN WHERE NECESSARY ANY EXISTING STRUCTURE AND PROVIDE A.L. BRACING, SHORING, ETC. TO SUPPORT ADJOINING SOIL, FLOORS, WALLS, ETC. AS REQUIRED TO RETAIN ALL WORK IN FLACE AND PREVENT ANY OVERSTRESSING OF THE STRUCTURE.
- CONDITIONS AND THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION, DESIGN OF SHORING AND TEMPORARY BRACING SHALL BE 21. THE CONTRACTOR SHALL CO-OPERATE WITH ALL TESTING, INSPECTION, AND QUALITY CONTROL PERSONNEL REQUIRED ON THE SITE AND WILL PROVIDE CASUAL LABOUR FORCES AS REQUIRED TO ASSIST IN ALL THE FIELD REVEW PROCEDURES. THE CONTRACTOR SHALL GIVE REASONABLE NOTICE TO THESE AGENCIES PRIOR TO REQUIRING THEIR SERVICES.
- ANCHOR BOLTS HAVE BEEN DESIGNED FOR LOADS OF THE COMPLETED STRUCTURE ONLY AND ARE NOT TO BE USED OR RELIED UPON 22. THE ENGINEER OR HIS REPRESENTATIVE WILL PROVIDE PERICDIC SITE REVIEWS FOR WORK SHOWN ON THESE DRAWINGS TO ASCERTAIN 5. CALCIUM CHLORIDE SHALL NOT BE USED AS ADMIXTURE. WHETHER THE STRUCTURAL WORK IS IN GENERAL CONFORMINGE WITH THE CONTRACT DOCUMENTS. THE SITE REVIEWS ARE NOT FOR THE CONTRACTOR'S BENEFIT AND THE CONTRACTOR REMAINS FULLY RESPONSIBLE TO ENSURE THAT ALL STRUCTURAL WORK IS CARRIED 0.01T IN ACCORDANCE WITH THESE DRAWINGS AND ALL APPLICABLE CODES. THE WORK TO BE REVIEWED SHALL GENERALLY BE
 - 23. PROVIDE 48 HOURS ADVANCE NOTICE OF EACH REQUIRED SITE REVIEW. SITE REVIEWS SHALL BE SCHEDULED TO BE CARRIED OUT DURING NORMAL BUSINESS HOURS UNLESS SPECIAL ARRANGEMENTS AREMADE WITH KASSIAN DYCK & ASSOCIATES
 - 24. PROVIDE 48 HRS. NOTICE PRIOR TO POURING CONCRETE. ALL REINFORCEMENT SHALL BE IN PLACE AND SECURED AT THE TIME OF THE REVIEW. REINFORCEMENT SHALL BE REVIEWED IN PLACE BY A REPRESENTATIVE OF THE ENGINEER, PRIOR TO PLACING CONCRETE.
 - 25. BEFORE CONCEALING ANY STRUCTURAL ELEMENTS, PROVIDEMINIMJM 48 HRS. NOTICE TO ENGINEER SO THE STRUCTURE CAN BE INSPECTED BY A REPRESENTATIVE OF THE ENGINEER.
 - 26. DO NOT CUT OR DRILL ANY OFENINGS INTO STRUCTURAL MEMBERS WITHOUT OBTAINING WRITTEN APPROVAL FROM KASSIAN DYCK &

FOUNDATION NOTES:

- 1. FOUNDATION DESIGN TO BE IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT
- UNLESS NOTED OTHERWISE FOUNDATION WALLS ARE NOT DESIGNED AS CANTILEVER WALLS. WALLS SHALL BE BACKFILLED EVENLY ON BOTH SIDES TO PREVENT LATERAL MOVEMENT. BACKFILL HEIGHTS SHALL NOT VARY BY MORE THAN 300 mm (12 INCH) FROM ONE SIDE TO THE OTHER.
- 3. DO NOT LOCATE UNDERGROUND SERVICES OR PIPING ADJACENT TO OR BELOW FOOTINGS WITHIN A 45 DEGREE SLOPE LINE EXTENDING DOWNFROM THE EDGE OF ALL FOOTINGS.
- 4. UNDERPIN WHERE NECESSARY ANY EXISTING STRUCTURE AND PROVIDE ALL BRACING AND SHORING TO SUPPORT ADJOINING SOIL, FLOORS, WALLS, ETC. AS REQUIRED TO RETAIN ALL WORK IN PLACE AND PREVENT ANY OVERSTRESSING OF THE STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL TEMPORARY UNDERPINNING, SHORING BRACING, AND SHALL SUBMIT 4 COPIES OF DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN ALBERTA.
- 5. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DAMPROOFING OR WATERPROOFING REQUIREMENTS.

SLAB-ON-GRADE NOTES:

PERMIT TO PRACTICE NUMBER: P 5820

- 1. PLACE CONCRETE TO CAN/CSA-A23.1.
- VIBRATE ALL CONCRETE.
- 3. SAWCUT SLABS ON GRADE WITHIN 16 HOURS AFTER PLACING CONCRETE. SAW CUT NOT LESS THAN 35 mm (1 3/8 INCH) DEEP
- 4. SAWCUT INTERIOR SLABS ON GRADE INTO PANELS NOT EXCEEDING 21 SQUARE METRES WITH A MAXIMUM PANEL DIMENSION OF
- 5. REMOVE ALL DEBRIS FROM SAWCUTS/CONTROL JOINTS. FILL SAWCUTS/CONTROL JOINTS SMOOTH AND LEVEL USING BACKING
- 6. PLACE EDGE JOINT FILLER AT SLAB EDGES AT WALLS AND GRADE BEAMS. LEAVE 13 mm (1/2 INCH) DEEP RECESS AND FILL JOINT WITH CONTROL JOINT SEALANT.
- 7. CURE HORIZONTAL SURFACES BY KEEPING THEM WET FOR 7DAYS, BY COVERING WITH A POLYETHYLENE SHEET WELL LAPPED AND EDGES WEIGHTED, OR WITH AN APPROVED CURING AGENT.

CONCRETE NOTES

- 2. CEMENT: NORMAL PORTLAND CEMENT TO CAN/CSA-A5, TYPE GUIOR SULPHATE RESISTANT CEMENT TO CAN/CSA-A5 TYPE HS
- 3. CONCRETE TO BE IN ACCORDANCE WITH FOLLOWING PERFORMANCE SCHEDULE. RESPONSIBILITIES OF OWNER, CONTRACTOR AND SUPPLIER ARE IN ACCORDANCE WITH ALTERNATIVE 1, TABLE 5 OR CSA A23.1-04.

LOCATION	STRENGTH	EXPOSURE	AIR	MAX AGGREG.	MAX W/C
FOOTINGS, EXTERIOR	25 MPa 3600 psi	F-2	4-7%	40 mm 1½ INCH	0.55
FOOTINGS, INTERIOR	25 MPa 3600 psi	N	0	40 mm 1½ INCH	0.55
FOUNDATION BASEMENT WALLS	25 MPa 3600 psi	F-2	4-7%	20 mm 3/4 INCH	0.55
SLAB ON GRADE, INTERIOR	25 MPa 3600 psi	N	0	20 mm 3/4 INCH	0.50
SLAB ON GRADE, EXTERIOR	32 MPa 4600 psi	C2	5-8%	20 mm 3/4 INCH	0.45

- 4. AIR ENTRAINING ADMIXTURE TO ASTM C 260
- CONTRACTOR TO PREPARE AND IMPLEMENT CUALITY CONTROL PLAN TO ENSURE THAT CONCRETE PERFORMANCE CRITERIA WILL BE MET, AND SUBMIT DOCUMENTATION DEMONSTRATING THAT PERFORMANCE REQUIREMENTS HAVE BEEN MET.
- PERFORM AT LEAST ONE CONCRETE TEST (3 CYLINDERS) FOR EACH 50 CUBIC METRES OF CONCRETE, OR FRACTION THEREOF, OF EACH TYPE OF CONCRETE POURED IN ANY ONE DAY.
- 8. CONTRACTOR TO CALL FOR CONCRETE TESTING AT AFPROPRIATE TIME
- VOID FCRM: EXPANDED POLYSTYRENE CONFIGURED TO SUPPORT A MAXIMUM LOAD OF 27 kPa (560 psi) AT 5 % DEFORMATION AND 50 kPa AT 40% DEFORMATION FROST CUSHION BY BEAVER PLASTICS OR APPROVEDE QUAL. PROVIDE 100 mm(4 INCH) THICK NESS UNLESS NOTED OTHERWISE
- 10. EDGE JOINT FILLER: BITUMINOUS IMPREGNATED FIBREBOARD, 12 mm (1/2 INCH) THICK, TO ASTM D1751-83.
- 11. WATERSTOP: RX WATERSTOP AS MANUFACTURED BY AMERICAN COLLOID COMPANY, OR APPROVED EQUAL
- 12. DRY PACK GROUT: NON-METALLIC, NON-SHRINK, CEMENTITIOUS GROUT, WITH MINIMUM 28 DAY STRENGTHOF 25 MPa (3600 psi).
- 13. PLACE CONCRETE AS CLOSE AS POSSIBLE TO FINAL LCCATION TO AVOID SEGREGATION. VIBRATE ALL CONCRETE.
- 14. BRING ALL FLOORS TO AN EVEN, LEVEL, OR SLOPING SURFACE AS INDICATED ON THE DRAWINGS, READY TO RECEIVE THE
- 15. UNLESS NOTED OTHERWISE PROVIDE THE FOLLOWING FINISHES TO CONCRETE FLOORS:

 - INTERIOR FLOORS STEEL TROWEL EXTERIOR SIDEWALKS AND SLABS BROOM FINISH INTERIOR PARKING SLABS AND RAMPS POWER FLOAT FINISH
 - DO NOT OVERWORK SLAB SURFACE; FLOOR TO BE LEVEL WITHIN 3 mm (1/8 INCH) IN 3000 mm (10 FT).
- 16. MINIMUM CONCRETE THICKNESS FOR SIDEWALKS AND RAMPS IS 100 mm (4 INCH) UNLESS NOTED OTHERWISE
- 17. PROVIDE CONTROL JOINTS IN FOUNDATION/BASEMENT WALLS AT 6 m (20 FT) O/C MAXIMUM. SEE TYPICAL DETAILS.
- 18. PROVIDE TOOLED JOINTS IN SIDEWALKS AT 1200 mm (4 FT) O/C MAXIMUM.
- 19. SUBMITLOCATIONS OF ALL CONSTRUCTION JOINTS TO ENGINEER FOR APPROVAL
- 20. PROTECT CONCRETE FROM FREEZING. DO NOT PLACE CONCRETE AGAINST FROZEN GROUND. USE WINTER CONCRETING METHODS IN ACCORDANCE WITH CSA A23.1-04.
- 21. PROTECT CONCRETE FROM EXCESSIVE HEAT AND DRYING. USE HOT WEATHER CONCRETING METHODS IN ACCORDANCE WITH
- 22. CURE CONCRETE IN ACCORDANCE WITH A23.1-04, AND FORA MINIMUM OF 7 DAYS AT A MINIMUM TEMPERATURE OF 10 DEGREES C. OR FOR THE TIME NECESSARY TO OBTAIN 70% OF THE SPECIFIED 28 DAY COMPRESSIVE STRENGTH.
- 23. PARGE EXPOSED FOUNDATION WALL AND REINFORCE WITH MESH. APPLY BONDING AGENT.



AUGUST 18, 2014 PERMIT NO. P5820

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- ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK.
- THESE DRAWINGS ARE NOT TO BE SCALED.



CALGARY, ALBERTA, CANADA T2W 4Y1 FAX (403) 255-6043 1475, 10655 SOUTHPORT ROAD S.W. PHONE (403) 255-6040

SHOPPING CENTRE 2119 50TH AVE, RED DEER AB						
DWG. TITLE	GENERA	NOTES				
drawn RB	ENG. SP	PROJ. No.	DWG No.	REV.		
DATE 2014-08-18	scale AS NOTED	1	\$1.0			

CONCRETE REINFORCEMENT NOTES

- ALL WORK TO BE IN ACCORDANCE WITH CSA A23.1-04 AND A23.3-04.
- REINFORCING BARS: DEFORMED BARS, GRADE 400 CONFORMING TO CSA G30.18 UNLESS NOTED OTHERWISE.
- WELDED WIRE FABRIC: GRADE 400 CONFORMING TO CSA G30.5. PROVIDE IN FLAT SHEETS ONLY.
- SHOP DRAWINGS SHALL INCLUDE BENDING, CUTTING, AND PLACING DRAWINGS FOR ALL REINFORCING STEEL. CLEARLY INDICATE CONCRETE COVER TO REINFORCING, BAR SIZES, GRADES, SPACING, REINFORCEMENT LOCATIONS, AND BAR SUPPORTS.
- PROVIDE CLASS B SPLICES FOR ALL REINFORCEMENT UNLESS SHOWN OTHERWISE (600 mm (2 FT) MN).
- PROVIDE ADDITIONAL SUPPORT BARS AS REQUIRED TO ADEQUATELY SUPPORT AND SECURE ALL REINFORCEMENT AND PREVENT MOVEMENT WHEN PLACING CONCRETE. PROVIDE AS A MINIMUM THE FOLLOWING:
 - 10M U BAR SPACERS AT 3 m (10 FT) O/C HORIZONTALLY AND 1.5 m (5 FT) O/C VERTICALLY TO HOLD WALL REINFORCING MATS IN 6.
 - 10M UBAR SPACERS AT 3 m (10 F) DUC HOVIZON INCLE AND 10 H (2 FT) O/C FOR 10M BARS, AND 1200 mm (4 FT) O/C FOR 15M AND LARGER BARS
 15M SUPPORT BARS AT A MAXIMUM OF 1200 mm (4FT) O/C SPACING IN EACH DIRECTION FOR BOTTOM REINFORCING
 15 M SUPPORT BARS AT A MAXIMUM OF 1200 mm (4FT) O/C SPACING IN EACH DIRECTION FOR BOTTOM REINFORCING
 15 M SUPPORT BARS IN HOOKS AND EACH CORNER OF ST RRUPS UNLESS SHOWN OTHERWISE
- LOCATE CHAIRS FOR REINFORCING AT A MAXIMUM OF 1200 mm (4 FT) CENTRES.
- PROVIDE 15M X 1500 mm LONG DOWELS TO ALL REINFORCED MASONRY WALLS OR COLUMNS. NUMBER TO MATCH COLUMN OR WALL
- UNLESS OTHERWISE SHOWN, CLEAR CONCRETE COVER TO REINFORCEMENT TO BE AS FOLLOWS:

SLABS, WALLS, JOISTS, 20M & SMALLER, EXPOSED	40 mm	(1-5/8 INCH)
SLABS, WALLS, JOISTS, 20M & SMALLER, NOT EXPOSED, UP TO 2 HRS FIRE RATING	25 mm	(1 INCH)
SLABS, WALLS, JOISTS, 20M & SMALLER, NOT EXPOSED, UP TO 3 HRS FIRE RATING	35 mm	(1-3/8 INCH)
PARKING SLABS, TOP	40 mm	(1-5/8 INCH)
PARKING SLABS, BOTTOM	30 mm	(1-1/4 INCH)
CONCRETE POURED AGAINST EARTH	75 mm	(31NCH)
SLABS POURED AGAINST VOID FORM	50 mm	(21NCH)
COLUMN TIES, BEAM STIRRUPS	40 mm	(1-5/8 INCH)
BEAMS & COLUMNS, PRINCIPAL REINF., 35M & SMALLER, EXPOSED	50 mm	(21NCH)
BEAMS & COLUMNS, PRINCIPAL REINF., 35M & SMALLER, NOT EXPOSED	40 mm	(1-5/B INCH)
BARS LARGER THAN THOSE LISTED ABOVE, EXPOSED	1.5 x DI A	AM.
BARS LARGER THAN THOSE LISTED ABOVE, NOT EXPOSED	1.0 x DIA	AM.

EXPOSED MEANS EXPOSURE TO EARTH AND/OR WEATHER

- ENSURE REINFORCING IS CLEAN; FREE OF LOOSE SCALE, OIL, DIRT, RUST, AND ANY OTHER FOREIGN COATINGS THAT AFFECT BONDING
- UNLESS NOTED OTHERWISE, ALL REBAR EMBEDMENT AND LAP SPLICE LENGTHS TO BE AS SHOWN IN FOLLOWING TABLE. ALL TENSION LAP SPLICES ARE CLASS B. WHERE NO EMBEDMENT TYPE IS INDICATED, PROVIDE TENSION EMBEDMENT. WHERE NO LAP SPLICE TYPE IS INDICATED, PROVIDE TENSION LAP SPLICE.

TENSION DEVELOPMENT (EMBEDMENT) LENGTHS / LAP SPLICE LENGTHS (mm)

BAR SIZE	CONCRETE STRENGTH							
	20 MPa			25 MPa		30 MPa		35 MPa
	EMBE D.	LAP	EMBED	LAP	ENBED	LAP	EMBED	LAP
10M	320	420	300	390	300	390	300	390
15M	480	630	430	560	390	510	370	480
20M	640	840	580	750	530	680	490	630
25M	1010	1310	900	1170	820	1070	760	990
30M	1210	1570	10 80	1400	990	1280	910	1190
35M	1410	1830	1200	1640	1150	1500	1070	1380

NOTES: - ALL TOP BAR SPLICES AND EMBEDMENT LENGTHS TO BE 1.3 TIMES LONGER THAN VALUES SHOWN ABOVE.

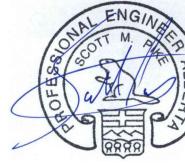
- TOP BARS ARE THOSE WHICH ARE CAST WITH 300 mm OR MORE CONCRETE BELOW BAR. STIRRUP SPLICES NOT ALLOWED EXCEPT WHEN APPROVED BY ENGINEER
- SPLICES FOR EPOXY COATED REINFORCEMENT TO BE INCREASED AS PER ENGINEERS INSTRUCTIONS.

COMPRESSION LAPSPLICE LENGTHS (mm)

BAR SIZE	LAP
10M	300
15M	440
20M	580
25M	730
30M	880
35M	1020

EXCAVATION AND BACKFILL NOTES:

- 1. ALL EARTHWORK INCLUDING EXCAVATION AND BACKFILL TO BE DONE IN ACCORDANCE WITH SOILS REPORT
- 2. LOCATE ALL UNDERGROUND SERVICES PRIOR TO EXCAVATING OR DRILLING.
- 3. STRIP ALL TOPSOIL, FILL, FROZEN SOIL, WET AND/OR WEAK SOILS, AND DEBRIS FROM THE BUILDING AREA.
- EXCAVATE TO ELEVATIONS SHOWN.
- 5. TEMPORARY SLOPES FOR EXCAVATIONS NOT TO EXCEED 1 HORIZ. TO 1 VERT. IN CLAY, OR 2 HORIZ. TO 1 VERT. IN SAND. PROVIDE SHALLOWER SLOPES AS REQUIRED BY SOIL CONDITIONS
- PRIOR TO PLACING FILL BELOW SLABS ON GRADE OR ASPHALT PAVING, PROOF ROLL THE SUBGRADE, REMOVE ANY SOFT AREAS AND REPLACE WITH COMPACTED PIT RUN GRAVEL, AND COMPACT EXISTING SUBGRADE TO OBTAIN THE SAME COMPACTION AS SPECIFIED FOR THE FILL.
- 7. PIT RUN GRAVEL TO BE WELL GRADED, 100 mm (4 INCH) MINUS.
- 8. CRUSHED GRAVEL TO BE 20 mm (3/4 INCH) ROAD CRUSH.
- 9. BACKFILL AND FILL TO BE AS FOLLOWS:
 - CRUSHED GRAVEL BELOW SLAB ON GRADE
 - APPROVED NATIVE SOIL BELOW LANDSCAPED AREAS
- 10. COMPACT ALL BACKFILL BELOW SLABS ON GRADE, ASPHALT PAVING, AND STRUCTURAL SLABS TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY. COMPACT ALL BACKFILL BELOW LANDSCAPED AREAS TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY. COMPACT IN MAXIMUM 150 mm (6 INCH) LIFTS.
- 11. UNLESS NOTED OTHERWISE, FOUNDATIONS AND WALLS SHALL BE EACKFILLED EVENLY ON BOTH SIDES TO PREVENT LATERAL MOVEMENT. BACKFILL HEIGHTS SHALL NOT VARY BY MORE THAN 300 mm (12 INCH) FROM ONE SIDE TO THE OTHER. EXERCISE EXTREME CAUTION DURING BACKFILL OPERATIONS TO PREVENT DAMAGE TO THE CONCRETE. DO NOT BACKFILL BASEMENT WALLS UNTIL BASEMENT SLAB ON GRADE AND MAIN FLOOR FRAMING (C/W BLOCKING) IS IN PLACE AND IS PROVIDING PROPER
- 12. ALL SURFACE GRADING ADJACENT TO THE BUILDING SHALL BE SLOPED AWAY FROM THE STRUCTURE (ALLOW EXTRA SOIL TO ACCOUNT FOR SEASONAL SETTLEMENT).
- 13. DO NOT ENCROACH A 45-DEGREE ANGLE OF BEARING FROM ADJACENT FOOTING BOTTOMS U.N.O.
- 14. KEEP EXCAVATION DRAINED AND FREE OF WATER AT ALL TIMES.
- 15. TAKE ALL NECESSARY MEASURES AND PRECAUTIONS TO PREVENT FREEZING OF SOILS BELOW FOOTINGS AND INTERIOR SLABS
- 16. REMOVE FROM SITE AND DISPOSE OF ANY SURPLUS MATERIAL.



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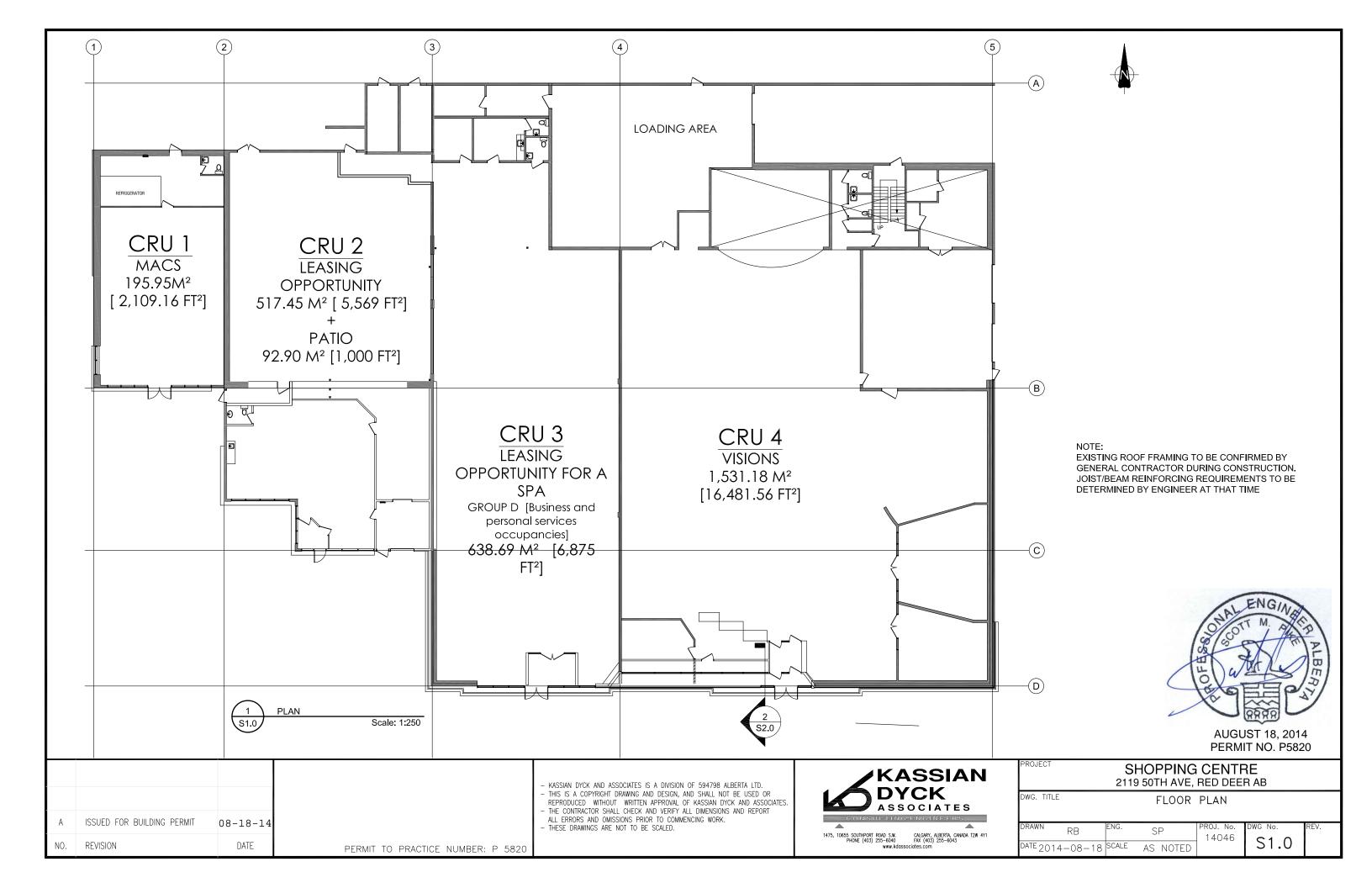
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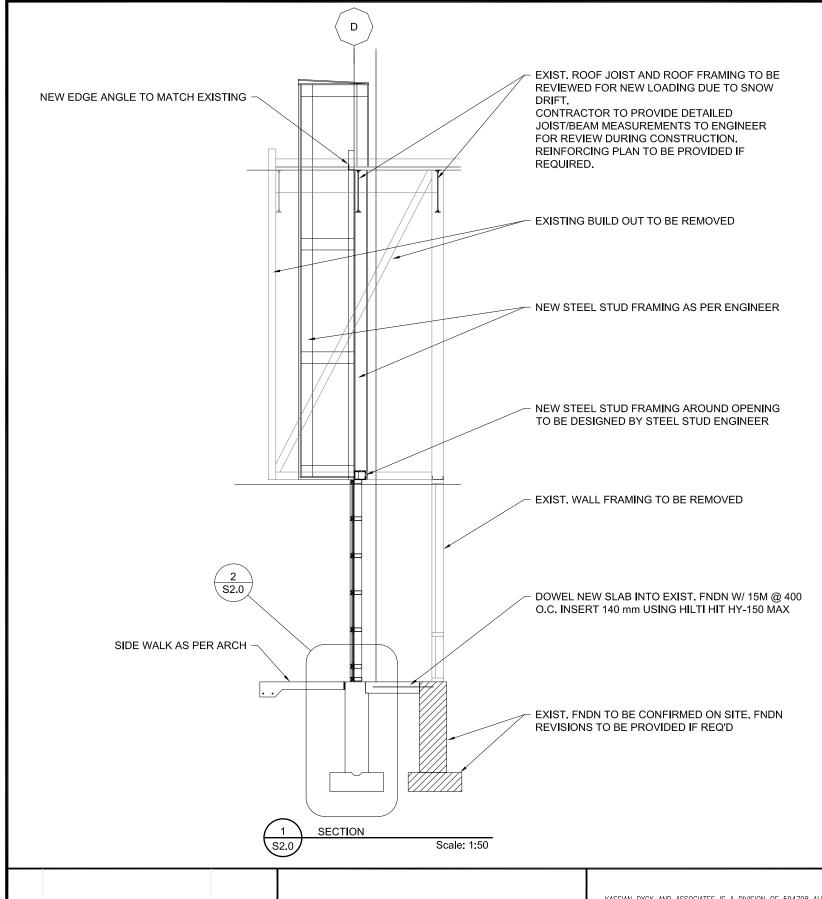
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DYCK
ASSOCIATES
CANCHISTING ENGINEERS

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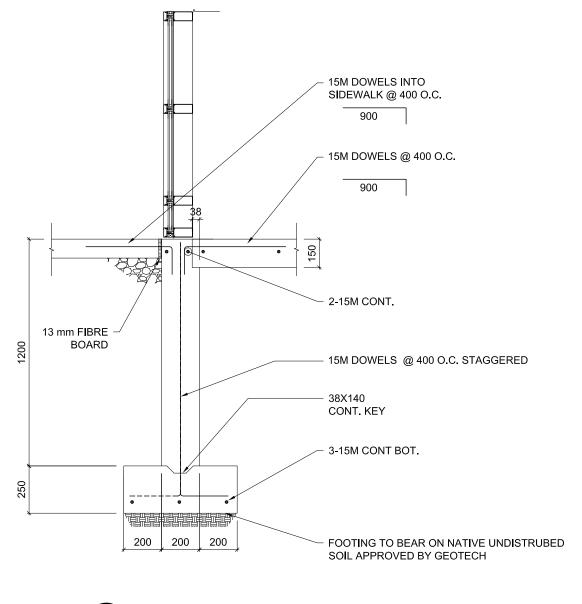
SHOPPING CENTRE 2119 50TH AVE, RED DEER AB								
DWG. TITLE	OWG. TITLE GENERAL NOTES							
DRAWN	RB	ENG.	SP	PROJ. No. 14046	DWG No.	REV.		
DATE 2014	-08-18	SCALE	AS NOTED		S0.2			

PERMIT TO PRACTICE NUMBER: P 5820





PERMIT TO PRACTICE NUMBER: P 5820



2 DETIL S2.0 Scale: 1:50



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 ★KASSIAN
DYCK
ASSOCIATES

1475, 10655 SOUTHPORT ROAD S.W. CALCARY, ALBERTA, CANADA T2W 4Y1 PHONE (403) 255–6040 FAX (403) 255–6043 FAX (403) 255–6043

PROJECT	SHOPPING CENTRE 2119 50TH AVE, RED DEER AB							
DWG. TITLE	DWG. TITLE SECTION & DETAIL							
DRAWN	RB	ENG.	SP	PROJ. No. 14046	DWG No.	REV.		
DATE 2014	-08-18	SCALE	AS NOTED		S2.0			