

CONCRETE NOTES

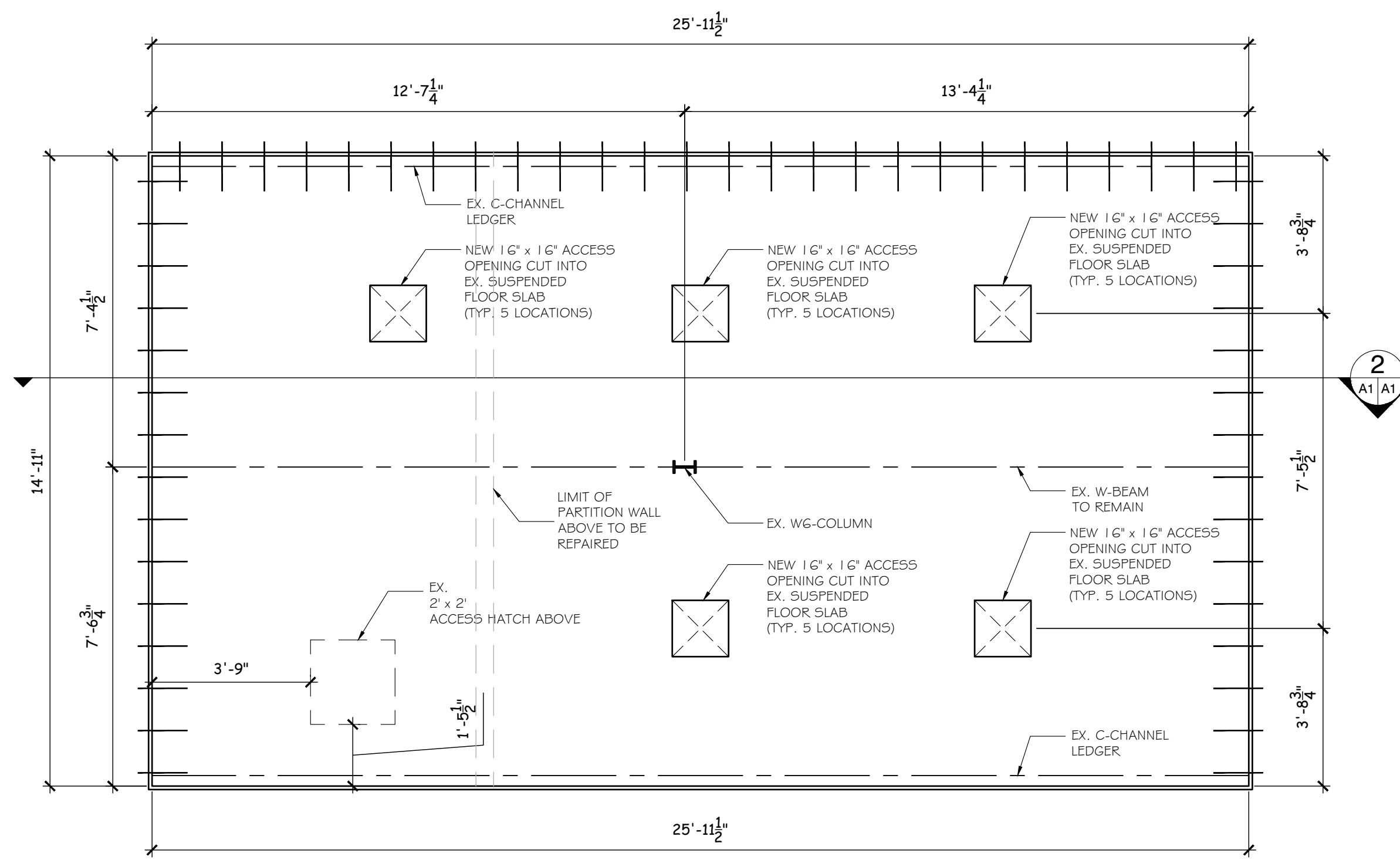
- CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE SAFEGUARDING OF EXISTING UTILITIES AND STRUCTURES ON SITE.
- ALL CONCRETE DETAILS FOR THE DESIGN, DETAILING, FABRICATION AND ERECTION SHALL COMPLY TO CSA-CAN3-A23.1-24 AND CSA-CAN3-A23.3-24.
- CONFORM TO CSA A23.1-24 CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION
- CONCRETE IS SPECIFIED PER ALTERNATIVE 1 - PERFORMANCE SPECIFICATION, AS OUTLINED CANCSA A23.1-24. THE CONTRACTOR AND THE CONCRETE SUPPLIER TO MEET ALL CERTIFICATION, DOCUMENTATION, AND QUALITY CONTROL REQUIREMENTS.
- THE CONCRETE SUPPLIER TO BE CERTIFIED BY THE READY MIXED CONCRETE ASSOCIATION OF ONTARIO.
- CONCRETE TO BE NORMAL DENSITY (MIN. 2400 KG/M3) UNLESS NOTED OTHERWISE.
- CEMENT TO BE PORTLAND CEMENT TYPE GU, UNLESS NOTED OTHERWISE OR REQUIRED BY EXPOSURE CLASS. CEMENT TO CONFORM TO CSA A3000.
- AGGREGATE TO CONFORM TO CSA A23.1-24/A23.3-24. DO NOT USE RECYCLED CONCRETE AS AGGREGATE.
- CONCRETE ADMIXTURES SHALL NOT CONTAIN CHLORIDES.
- SUBMIT CONCRETE MIX DESIGNS TO DESIGNATED ADMINISTRATOR FOR REVIEW BEFORE START OF WORK.
- INTERIOR SLAB APPLICATIONS:
 - EXPOSURE CLASS: N
 - MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 25 MPA CLASS N.
 - NOMINAL SIZE OF COARSE AGGREGATE: 3/4"
 - CONCRETE EXPOSED TO OUTSIDE ELEMENTS SHALL BE AIR ENTRAINED <3%.
- REINFORCING SHALL BE DEFORMED STEEL BILLETS, MIN. GRADE 400 TO CSA G30.1 & 2:1
- WELDED SHALL MESH SHALL BE TO G30.5 M1983 (R1998). ALL WIRE MESH SHALL BE LAPPED AND TIED A MINIMUM OF 8"
- PROVIDE A MINIMUM CLEAR COVER OF 40mm (1 1/2") FROM ALL SIDES.
- INSTALL ALL PRE-MANUFACTURED ADHESIVES AND EPOXIES IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND GUIDELINES.

CONSTRUCTION PROCEDURE

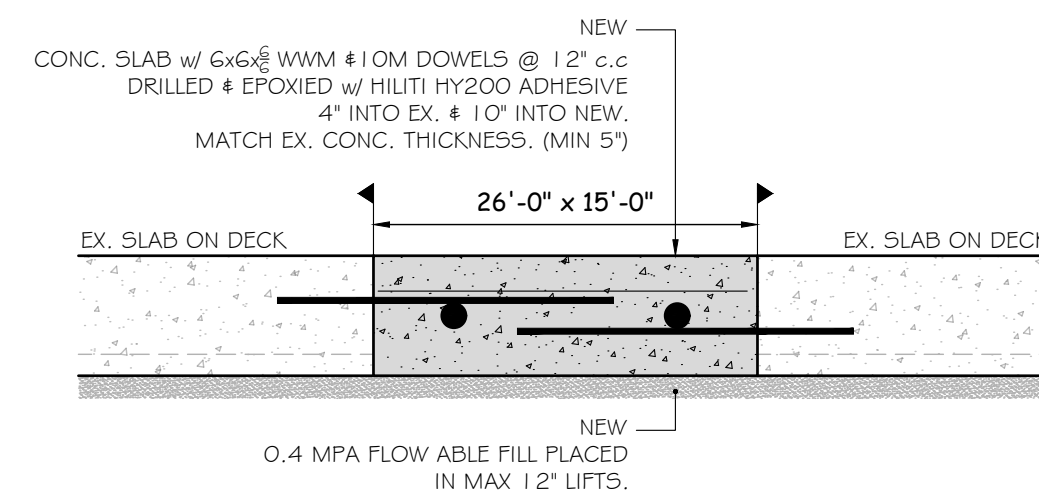
- HOARD AREA OF WORK TO PREVENT INTERRUPTION DURING NORMAL BUSINESS HOURS. PREVENTING UNAUTHORIZED ACCESS THE WORK SITE. ENSURE EXISTING OF THE BUILDING IS MAINTAINED.
- REMOVE SECTION OF PARTITION WALL IN THE LIMIT OF WORK, INCLUDE ANY TEMPORARY SHORING REQUIRED TO EXECUTE THE WORK.
- SAWCUT 5 NEW 16"x16" ACCESS HOLES IN THE FLOOR TO FACILITATE THE INSTALLATION OF NEW VAPOUR BARRIER AND BACKFILL MATERIAL, GUARD OPENINGS AS REQUIRED.
- PUMP ANY STANDING WATER AND INSTALL NEW VAPOUR BARRIER ON THE BOTTOM AND SIDES OF THE EXISTING CISTERN, SEAL TO EXISTING CONCRETE WALL EDGES AT UNDERSIDE OF SLAB.
- BACKFILL THE FIRST 3 LIFTS OF GRANULAR FLOWABLE FILL, ENSURE THAT THE STEEL BEAM AND LEDGERS REMAIN ACCESSIBLE FOR REMOVALS.
- REMOVE THE REMAINING LIMITS OF THE SUSPENDED FLOOR SLAB NOTED AS 26'-0"x15'-0" ±, ENSURING TO PROVIDE ACCESS TO THE EXISTING STEEL MEMBERS.
- REMOVE BY MEANS OF CUTTING, TORCHING AND UNBOLTING EXISTING STEEL BEAMS, LEDGERS AND TOP OF COLUMN EXPOSED UNDER THE PROPOSED SLAB. REMOVE AND PROPERLY DISCARD STEEL FROM THE SITE.
- COMPLETE FINAL LIFT OF BACKFILL TO THE PROPOSED UNDERSIDE OF SLAB ELEVATION.
- INSTALL WIRE MESH REINFORCING AND 10M DOWELS AS SPECIFIED. PLACE CONCRETE SLAB AND CURE TO DESIGN STRENGTH.
- MAKE GOOD ARE FLOORING AND WALL FINISHES TO MATCH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

DESIGN LOADS:

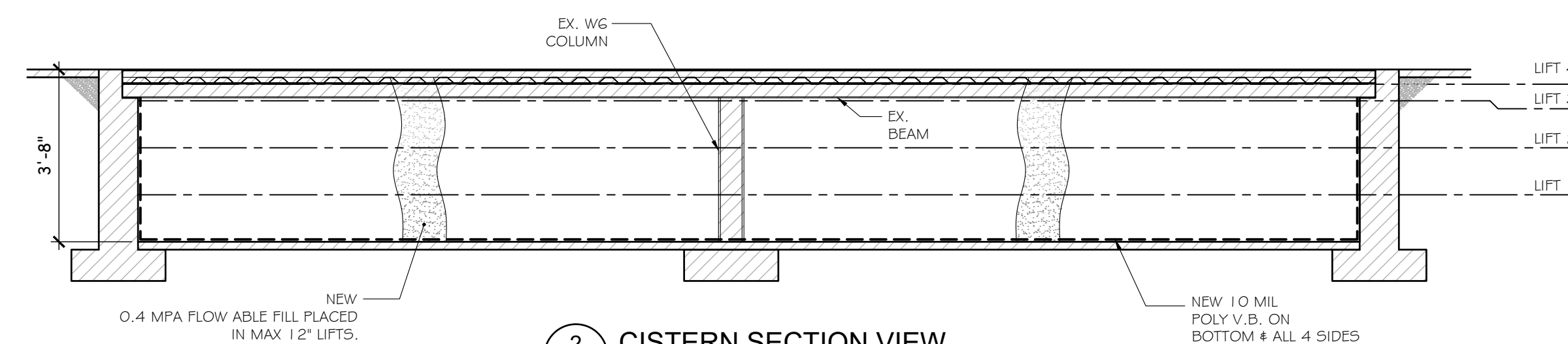
LL = 100 PSF
DL = 75 PSF
*PRIOR TO APPLICABLE LOAD FACTORS



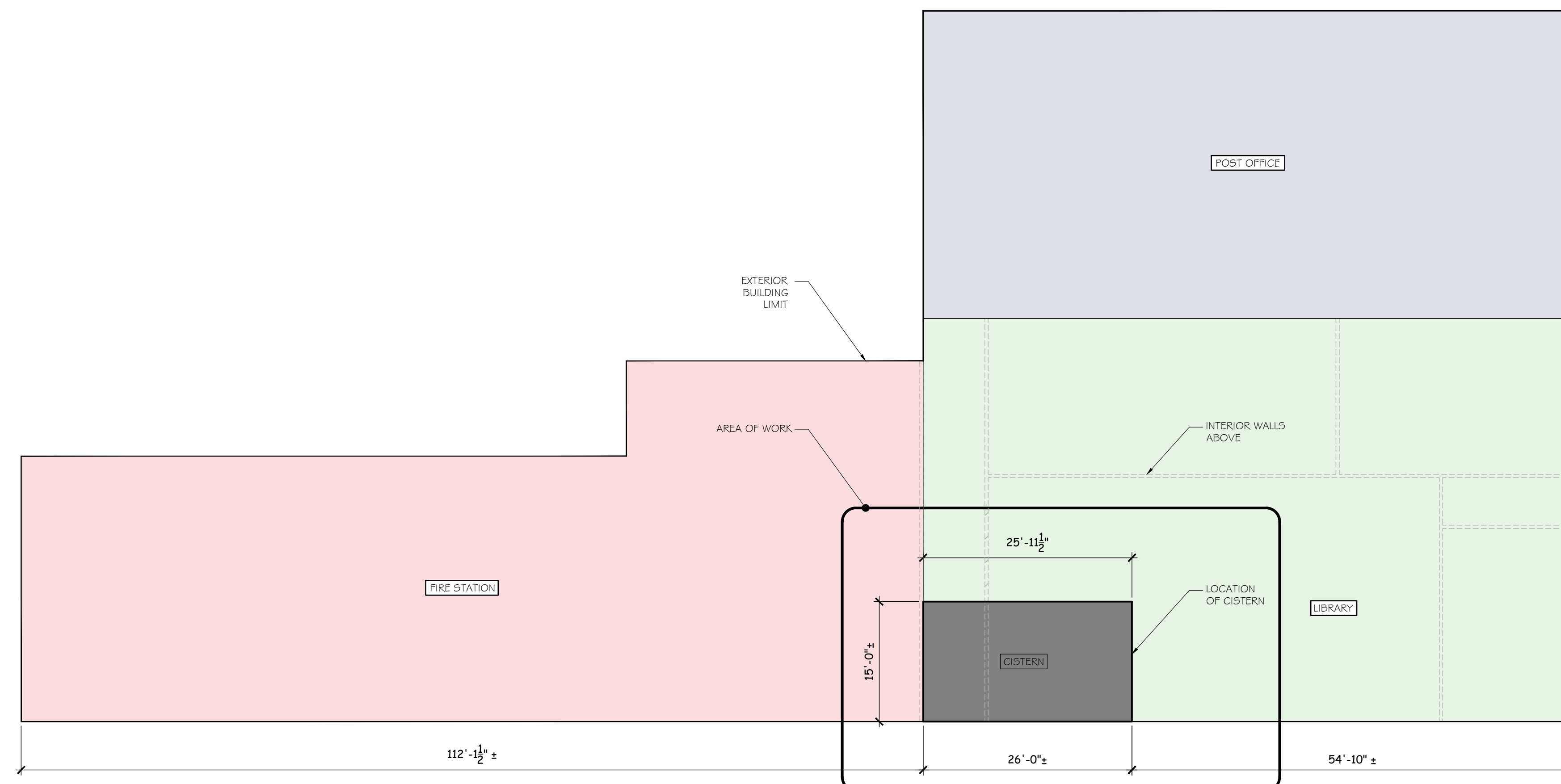
1 CISTERN PLAN VIEW
SCALE: 3/8" = 1'-0"



3 NEW SLAB DETAIL
SCALE: 1/12" = 1'-0"



2 CISTERN SECTION VIEW
SCALE: 3/8" = 1'-0"



4 KEY PLAN
SCALE: 3/32" = 1'-0"

LEGEND

	NEW WALLS
	EXISTING WALLS TO REMAIN
	EXISTING WALLS TO BE REMOVED

No.	By	Date	Revisions
1	Z.B.	2024-12-19	FOR PERMIT
0	Z.B.	2024-12-12	FOR REVIEW

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The contractor must check and verify all dimensions on the job prior to start of construction.
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Project Title:
ELGIN FIRE STATION
TOWNSHIP OF RIDEAU LAKES
32 Halladay St,
Elgin, Ontario

CISTERN DECOMMISSIONING PLAN VIEW & SECTION

Design: BC	Checked: BC	Approved: BC	Project No.: 11807
Drawn: ZB	Checked: BC	Date: 2024-12-10	Contract No.:
Scale: Horizontal: 1/16" = 1'-0" Vertical: 1/16" = 1'-0"	Drawing No.:		S1
REV DATE: 12/19/2024			