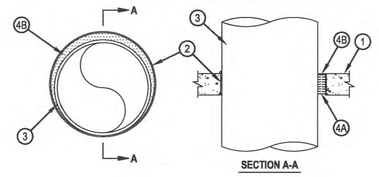
System No. C-AJ-1226

CAJ 1226

CLASSIFIED C UL US
Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 3 Hr
L Rating At 400 F — 4 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — 4 CFM/sq ft



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 In. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32 in. (813 mm).
2. Metallic Sleeve — (Optional) Nom 32 in. (813 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. (76 mm) above floor or beyond both surfaces of wall.
2A. Sheet Metal Sleeve — (Optional) Max 6 in. (152 mm) diam, min 26 ga. galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. (102 mm) below the bottom of the deck and a max of 1 in. (25 mm) above the top surface of the concrete floor.
2B. Sheet Metal Sleeve — (Optional) - Max 12 in. (305 mm) diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. (102 mm) below the bottom of the deck and a max of 1 in. (25 mm) above the top surface of the concrete floor.
3. Through-Penetrant — One metallic pipe, tube or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). Penetrant may be installed with continuous point contact. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic penetrants may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Conduit — Nom 6 in. (152 mm) diam (or smaller) steel conduit.
   F. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).

HILTI Hilti Firestop Systems

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4. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or sleeve as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor or sleeve or with both surfaces of wall or sleeve. At the point or continuous contact locations between penetrant and concrete or sleeve, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete or sleeve/ pipe penetrant interface on the top surface of floor and on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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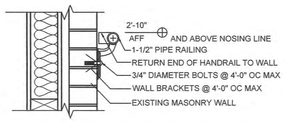
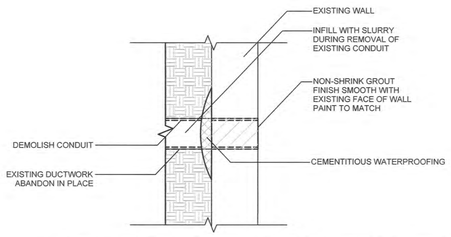
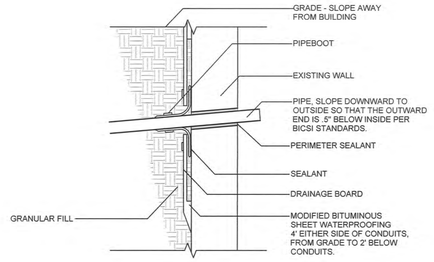
9 UL DETAILS
NTS



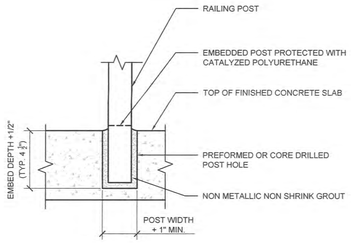
4 HANDRAIL DETAIL @ BRICK WALL
1 1/2" = 1'-0"



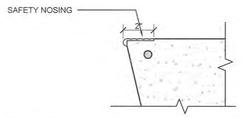
5 EXISTING PIPE PENETRATION @ BASEMENT WALL
1 1/2" = 1'-0"



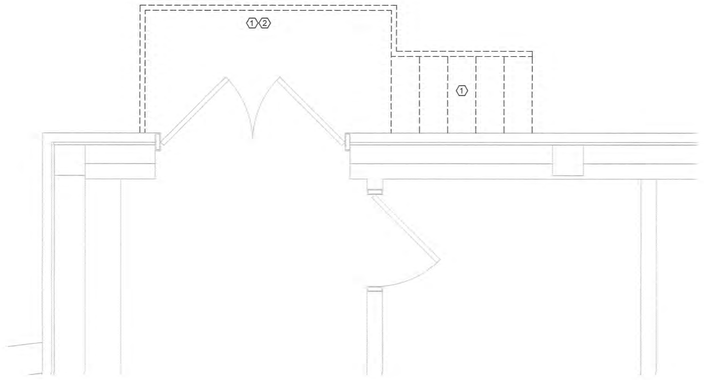
6 NEW PIPE PENETRATION @ BASEMENT WALL
1 1/2" = 1'-0"



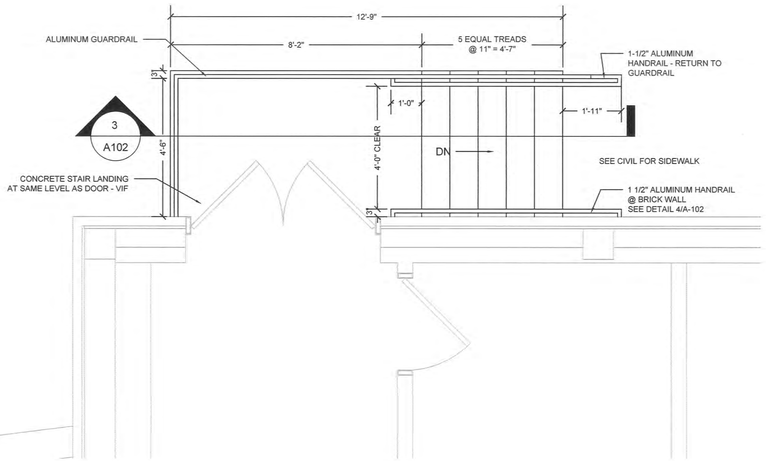
7 PIPE SLEEVE DETAIL
3" = 1'-0"



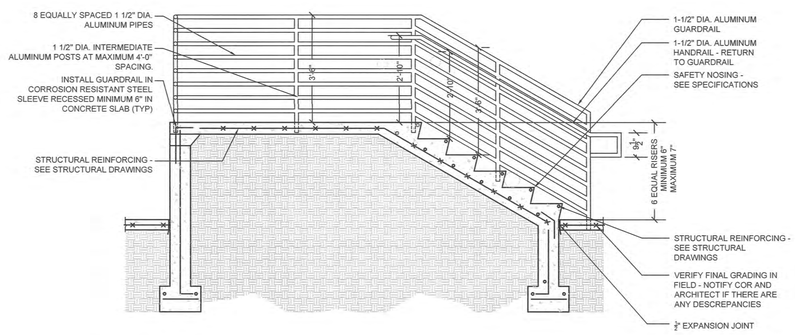
8 CONCRETE STAIR NOSING DETAIL
3" = 1'-0"



1 BUILDING #1 STAIR DEMOLITION PLAN
1/2" = 1'-0"



2 BUILDING #1 FIRST FLOOR NEW STAIR PLAN
1/2" = 1'-0"



3 STAIR SECTION
1/2" = 1'-0"

DEMOLITION AND GENERAL NOTES

1. BRING TO COR'S AND ARCHITECT'S IMMEDIATE ATTENTION ANY DISCREPANCIES.
2. COORDINATE WORK OF THIS TRADE WITH OTHER TRADES.
3. ANY DIMENSIONS NOT SHOWN OR DEEMED QUESTIONABLE ARE TO BE VERIFIED BY ARCHITECT/DESIGNER. DO NOT SCALE DRAWINGS.
4. DEMOLITION IS INTENDED TO PREPARE THE BUILDING TO RECEIVE THE NEW WORK. THE INFORMATION PROVIDED IN NO WAY INTENDS TO MEAN THAT DEMOLITION IS LIMITED ONLY TO THOSE ITEMS SPECIFICALLY IDENTIFIED. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO EXECUTE DEMOLITION WORK AS REQUIRED TO ALLOW THE EXECUTION OF NEW WORK. ANY EXISTING WORK TO REMAIN, IF DAMAGED BY ANY TRADE OR NEW CONSTRUCTION, SHALL BE PATCHED, REPAIRED OR REPLACED TO MATCH EXISTING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS REGARDING DEMOLITION AND ALTERATION PROCEDURES AND ALSO COMPLY WITH APPLICABLE CODES AND REGULATIONS.
5. ALL DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY INCLUDING ALL ASSOCIATED SUPPORTS, PROJECTIONS, BOLTS, NAILS AND FASTENERS FROM EXISTING SURFACES. PATCH ALL HOLES TO MATCH ADJACENT SURFACES.
6. ALL STRUCTURAL INTERFERENCE OR STRUCTURAL WALLS, BEAMS, JOIST AND COLUMNS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR DECISION. NO FLOOR OR STRUCTURAL MEMBER SHALL BE CUT WITHOUT PERMISSION OF A REGISTERED STRUCTURAL ENGINEER. ALL PROPOSED SLEEVE / CORING SHALL BE REVIEWED BY ARCHITECT.
7. REFER TO CIVIL DRAWINGS FOR REQUIRED SITE WORK DEMOLITION.

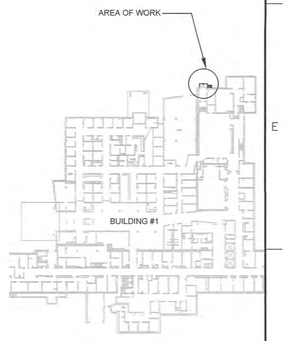
DEMOLITION KEY NOTES

1. DEMOLISH EXISTING STAIR, LANDING AND ASSOCIATED RAILINGS IN ITS ENTIRETY.
2. COMPLETELY REMOVE EXISTING HANDRAIL / GUARDRAIL.

REFERENCE LEGEND

SCALE: N.T.S.

- DEMOLISHED WALL
- NEW WALL
- Room — ROOM TAG
- REVISION TAG
- X — KEYNOTE TAG
- Ref 1 A101 — SECTION TAG
- SIM 1 A101 — DETAIL TAG
- NEW DOOR
- X — DOOR TAG
- A101 1 — EXTERIOR ELEVATION TAG



KEY PLAN

NORTH (ACTUAL)

100% CONSTRUCTION DOCUMENTS

Revisions:	Date

CONSULTANTS:

NC CONSULTING DRAWINGS 52644 NORTH CAROLINA REGISTERED ARCHITECT RALEIGH, NC

KENNETH M. MOSS 11499 REGISTERED ARCHITECT NORTH CAROLINA WAKE FOREST, NC 9/18/15

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Drawing Title: BUILDING 1 ARCHITECTURAL PLANS, SECTIONS + DETAILS

Approved: Project Director

Project Title: REPLACE MAIN ELECTRICAL TO OUT-BUILDINGS

Location: FORT WAYNE, IN

Date: 9/18/2015 | Checked: KMN | Drawn: MEG

Project Number: 610A4-12-188

Building Numbers: 1,3,5,6,7,10,T4,T5,T6

Drawing Number: A-102 Dwg. 22 of 48

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

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