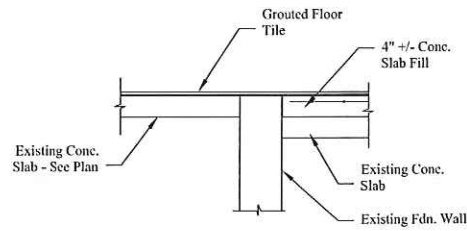
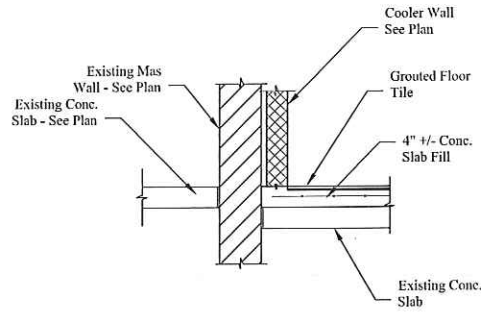


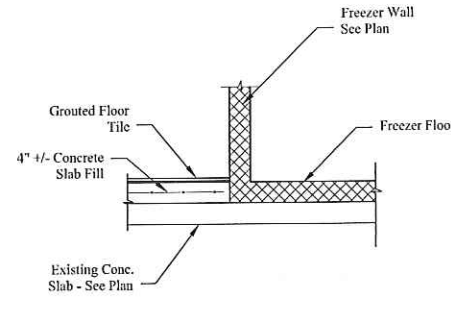
A1 Notes and Details (Sheet S1)



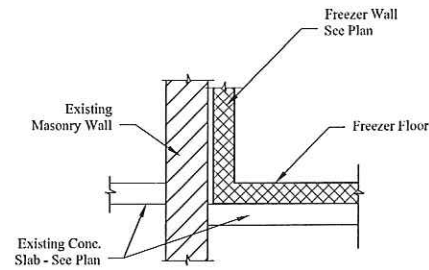
10 FLOOR SLAB DETAIL
Scale: 3/4" = 1'-0"



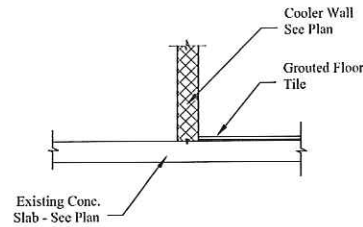
11 FLOOR SLAB DETAIL
Scale: 3/4" = 1'-0"



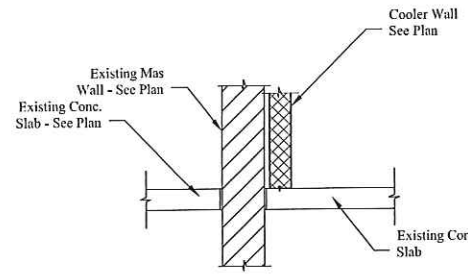
12 FLOOR SLAB DETAIL
Scale: 3/4" = 1'-0"



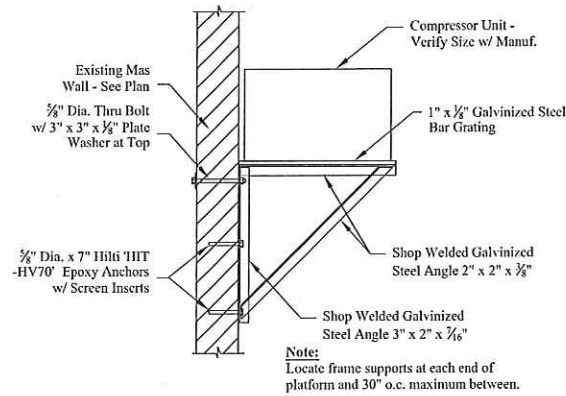
20 FLOOR SLAB DETAIL
Scale: 3/4" = 1'-0"



21 FLOOR SLAB DETAIL
Scale: 3/4" = 1'-0"



22 FLOOR SLAB DETAIL
Scale: 3/4" = 1'-0"



30 COMPRESSOR SUPPORT
Scale: 3/4" = 1'-0"

- PROJECT NOTES:**
1. Electrical and Mechanical work provided by "Bennett Engineering".
 2. Sprinkler work by General Contractor.
 3. Kitchen design and layout by TJM Consulting, Inc.
 4. Cooler / Freezer by Thermo-Kool.

GENERAL STRUCTURAL NOTES:

GENERAL:

1. All work shall conform to the requirements of all applicable state and local codes, including but not limited to:
 - 2012 International Building Code (IBC)
 - ANSI/ASCE 7-05
 - AISC Steel Construction Manual, 14th edition
2. All work shall be performed by persons qualified in their trade and licensed to practice such trade in the state in which the project is located.
3. These drawings shall be used in conjunction with any architectural, mechanical, and electrical drawings in addition to specifications and any shop drawings provided by subcontractors and suppliers.
4. All dimensions, elevations, and conditions shall be verified in the field by the general contractor (g.c.) and any discrepancies shall be brought to the attention of the engineer for clarification before proceeding with the affected part of work.
5. Unless otherwise noted, details, sections, and notes shown on these drawings shall be considered typical for all similar details.
6. All shop drawings provided by others shall be submitted to the engineer for review prior to the fabrication of material or the purchase of non-returnable stock. Dimensional review is the contractor's responsibility.
7. Any and all temporary bracing or shoring which is needed to hold the structure in a safe and stable position until it is complete, is solely the responsibility of the contractor. Consult independent engineer if design assistance or review is needed.

DESIGN LOADS:

Live Loads:
Floor Design LL = 100.0 psf.
Mechanical Platform LL = 100.0 psf.

Dead Loads:
Mechanical Platform DL = 5.0 psf.

Snow:
Basic Ground Snow Load = 70 psf
 $P_f = 45$ psf, $C_e = 1.0$, $C_t = 1.0$, $I_s = 1.0$

Wind:
Wind Speed = 100 mph
Exposure "C"
 $I_w = 1.0$

CONCRETE SLAB:

1. All work shall conform to "building code requirements for structural concrete" (ACI 318-05) and "specifications for structural concrete for buildings" (ACI 301).
2. Use of calcium chloride is prohibited in any concrete mix.
3. Concrete shall be of normal weight and attain a minimum ultimate compressive strength of 3000 psi.
4. All concrete shall be cured by an approved method as prescribed by ACI.
5. Maximum water to cement ratio (w/c) shall be 0.50 for 3000 psi concrete. Submit concrete mixes for engineers review.
6. For normal weight concrete, maximum concrete slump shall be four (4) inches without MRWR.

STRUCTURAL STEEL:

1. Structural steel work shall conform to "specifications for design, fabrication, and erection of structural steel for buildings (AISC current edition)", "Code of Standard Practice for Steel Buildings (AISC current edition)", and "Structural Welding Code (AWS D1.1-04)".
2. Structural steel shall be new steel conforming to the following:
 - a) Rolled Shapes and Plates - ASTM A36 (except as noted below)
 - b) Anchor Rods - Headed rods conforming to ASTM F1554, Grade 36
3. Welded connections shall be made by AWS qualified welders using filler material conforming to E70XX, low hydrogen.
4. Field coating of structural steel or any modifications shall not be made without approval by engineer.
5. All structural steel shall receive one (1) shop coat of rust inhibitive primer. Exposed exterior steel shall be galvanized.

COLD-FORMED (LIGHT-GAGE) STRUCTURAL STEEL:

1. All detailing, fabrication and erection of cold-formed steel shall comply with current aisc specifications.
2. All steel 18 ga and lighter shall be commercial quality steel ASTM A611 grade C with a minimum yield point of 33,000 psi. All steel 16 ga and heavier shall conform to ASTM A570 grade D, with a minimum yield point of 50,000 psi.
3. All steel shall receive one shop coat of primer paint, or be electro or hot-dipped galvanized steel.
4. All field abrasions to members from field welding shall be touched up with zinc-rich paint.
5. At track butt joints, track must be anchored to a common structural element.
6. Studs shall be seated squarely in track with stud flanges abutting track flanges. Studs shall be plumbed, aligned and squarely attached to flanges or top and bottom track.
7. Splices in axially loaded studs shall not be permitted.
8. All connections shall be per manuf. recommendations. connect all studs to tracks w(2) #6 self tapping screws minimum top and bottom.

SPECIAL INSPECTION REQUIREMENTS:

1. Engineer of Record (EOR) shall be called for review of existing masonry removal prior to beginning work.



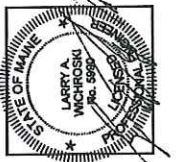
SITE LOCATION PLAN
NTS

ENGINEERING DESIGN PROFESSIONALS
 Consulting Engineers
 P.O. BOX 575, FREEPORT, MAINE 04032 • (207) 865-9505



The Park Danforth
 Walk-In Freezer/Cooler Renovations
 777 Stevens Ave, Portland, Maine
NOTES & DETAILS

PROJECT: DRAWING:



DESIGNED BY: Larry Wichroski, P.E.
 DRAWN BY: Law
 JOB #: 03213
 DATE: 08-22-2013

REVISIONS

SHEET: **S1**