DESIGN STANDARDS

Section VIII.
Required Typical/Details

Revised February 15, 2010

Yale University – School Of Medicine
Facilities Construction & Renovation
Lab Bench & Shelving Detail (Change # 12, 9/1/2005)
Drain Flashing/Exterior Utility Railing & Leaders Details
Roof Drain Detail at Concrete Deck
Base Flashing at Expansion Joint
Retaining Wall Flashing Detail
Concrete Curb Flashing
Sleeper Flashing/Cover
Control Joint
Vent Shaft
Flashing Detail at Balcony Post
Multiple Penetrations
Termination Bar
Typical New Reglet Detail
Ladder
Guardrail
Flashing at Door to Roof (IRMA)
Gravel Stop Detail (IRMA)
Coping and Flashing Detail
Louver Flashing Detail (IRMA)
Glazed Wood Laboratory Doors
(change # 19,7/17/2006)
Sign Lettering Spacing Standard Sign Types A and B (Change # 48, 8/10/09)
Sign Locations (Change #48, 8/10/09)
Required Sign Schedule (Example) (Change #48, 8/10/09)
Signs for Emergency Showers
Signs for Emergency Eyewashes
Coffee Cubbies (change #45 6/30/09)
Lab Bench Carrel Detail

3/4" LAMINATE SHELF ENCLOSURE/UNDER
1 1/2" x 6" x 3/4" ADJ. LAM SHELVES,
36" KUB Shelves. ADJ. STANDARDS BEYOND SHLV
@ TOP

FLUSH SIDE SPLASH @ LAM BENCH.

LAM CARREL COUNTER w/ 
1" PINE PLYWOOD CORE / BACK SHEET.

MATCH ADJACENT LAB BENCH WIDTH.

AT SUBSTANDARD AMOUNT WITHING 24" USE 48" CARREL WIDTH.

ALL PANEL CLOSURE, DOUBLE PANEL WHEEL
FIXING FLEXIBLE BETWEEN 1/2" LAM HUNTS.

ALL DRAWER BASE UNIT - PROVIDE CYLINDER LOCKS EACH DRAWER. WHERE CARREL DRAWERS ARE IN HIGH BENCH ADJACENT PROVIDE LOCKS FOR 2 LOWER DRAWERS.

DRAWER BASE UNIT @ ALL END PANEL (OF 3' CARREL UNIT).

REMOVABLE FOR RANGE SIDE ACCESS.

VCT CONTINUOUS UNDER CASWORK

LAB BENCH CARREL DETAIL 3' x 1'

SEE SHEET 1 FOR BENCH/CARREL ELEVATION

REV. D: 4.01 CHANGE #23

SHEET 2 OF 2

7/7/73
Lab Bench & Shelving Detail (Change # 12, 9/1/2005)

LAB BENCH & SHELVING DETAIL (AT WALLS) 3/4" O.A.

* At substandard aisle widths < 54" use 24" min. bench +
carrel widths

Sheet 3053

REV. 8.4.01 CHANGE #25

7/7/03
SWIVEL FAUCET WITH SINGLE HOT AND COLD WATER W/WRIST ACTION MIXING PADDLE

WOOD APRON

1/2" PLEXIGLASS SPLASH GUARD

2'-6" KNEE SPACE

10" DEEP X 28" WIDE ROLL OUT OPEN FRONT CASEWORK CABINET

ACCESSIBLE SINK ELEVATION

(Change #22)
STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC SAFETY
DIVISION OF FIRE, EMERGENCY & BUILDING SERVICES
OFFICE OF THE STATE BUILDING INSPECTOR

February 1, 2001

M. Virginia Chapman, AIA, Director
Yale School of Medicine
Facilities Development & Operations
37 College Street
New Haven, CT 06510

RE: W-111-00 Yale School of Medicine
333 Cedar Street
New Haven, Connecticut

Dear Ms. Chapman:

I have reviewed the above-referenced Request for Handicap Waiver from the provisions of Section 1108.12, Laboratory Stations, of the BOCA National Building Code/1996 portion of the 1999 State Building Code, together with James D. McGaughhey, Executive Director of the Office of Protection and Advocacy for Persons with Disabilities. (Mr. McGaughhey’s letter is enclosed).

It is our joint decision to approve this handicap waiver, as requested, provided that the alternative, as outlined in the November 22, 2000 proposal, including the drawings, is implemented. This waiver only applies to employee areas and only to the type of laboratory stations described in the application (i.e., deep laboratory sinks, fume hoods). This decision is based on the fact that full compliance with the State Building Code has been determined to be technically infeasible.

If you have any questions, please contact Daniel Veronick, of my office, at (860) 685-8310.

Sincerely,

Christopher R. Laux, AIA
State Building Inspector

CRL:DV:pm
Enclosure
cc: James McGaughhey
Andrew Rizzo, New Haven Building Official

Telephone (860) 685-8310
1111 Country Club Road, P.O. Box 2794
Middletown, CT 06457-9294
An Equal Opportunity Employer
ROOFING DETAILS

The following drawings are examples of roofing details that have been successfully implemented at the Yale School of Medicine. These examples are provided as a reference to the design professional who, as always, is responsible for ensuring that all roofing details are adequate and appropriate for the particular project situation. Proposed roofing details will be reviewed and commented on by YSM facilities managers during regular end-of-phase document reviews.
PROVIDE NEW REGLET, SEE DETAIL #12

20 OZ. COPPER COUNTERFLASHING

NAIL-INS AT 12" OC. MAX.

20 OZ. COPPER TWO PIECE EXPANSION FLASHING

NEW PT, 2x TRIMMED

20 OZ. COPPER HOOKSTRIP NAILED 3" OC.

TWO PLY COMPOSITION BASE FLASHING AND ONE PLY REINFORCED FLASHING

NEW PT. 2x4's 16" OC.

4 PLY MEMBRANE & AGGREGATE

1/2" FIBERBOARD - MOPPED

FIBER CANT STRIP

TAPERED ISOCYANURATE INSULATION - MOPPED

ISOCYANURATE INSULATION BETWEEN STUDS

3/4" PT PLYWOOD

EXISTING CEMENTITIOUS DECK, PRIMED

FACE OF PLYWOOD TO MATCH FACE OF EXISTING EXPANSION JOINT

TRIM 2x4's AS REQUIRED

3 BASE FLASHING AT EXPANSION JOINT
Concrete Curb Flashing

20 OZ. COPPER
ROSH OVER ICE AND WATERSHED
16 OZ. COPPER CLEATS AT 1" OC
ROSH OVER #3 FELT
1x4 WOOD FURRING 24" OC. MAX. VERTICALLY

20 OZ. COPPER STANDING SEAM PANELS
20 OZ. CONC. COPPER HOOKSTRIP SOLDER TO COUNTER FLASHING
20 OZ. L.C.C. TWO PIECE COUNTER FLASHING SECURED TO P.T. PLYWOOD 2" OC. WITH COPPER NAILS
RIVETS AT 12" OC.
1 x 1/8" TERMINATION BAR SEE DETAIL #1
SEAL OFF TOP OF FLASHING WITH FABRIC AND FLASHING CEMENT
3/8" P.T. PLYWOOD FASTEN TO 1X4 WOOD FURRING
20 OZ. L.C. COPPER COUNTERFLASHING
TWO PLY COMPOSITION BASE FLASHING AND ONE PLY REINFORCED FLASHING
4 PLY MEMBRANE & AGGREGATE
1/2" FIBERBOARD - MOPPED
TAPERED ISOXYANURATE INSULATION - MOPPED
EXISTING CEMENTITIOUS DECK

REVIEWING WALL FLASHING DETAIL
EXISTING DUCTWORK (RE-USE)
CUT & RESOLDER CORNERS AS REQ'D.
TO ALLOW INSTALLATION OF FLASHING

MASTIC & FABRIC STRIPPING

TERM BAR (SEE DETAIL #11)

"NAIL-IN" FASTENER

CANT STRIP

REINFORCED BASE FLASHING

FIBERGLASS FELT FLASHING (2 PLY)

4 PLY C.T.B. MEMBRANE

1/2" FIBERBOARD INSULATION

18" TAPERED EDGE STRIP

TAPERED ISOYANURATE INSULATION (THICKNESS VARIES)

EXISTING DECK / CURB CONSTRUCTION

5 CONCRETE CURB FLASHING
Flashing Detail at Balcony Post
FLAShING DETAIL AT BALCONY POST
.018" S.S. REMOVABLE COVER
OVERLAP 2" MIN. ON STACK
S.S. SCREWS W/EPDM WASHERS
.018" S.S. STACK (12" HEIGHT MIN.)
S.S. INSECT SCREEN
REWORK EXISTING PIPING/ELECTRICAL AS REQUIRED
FILL W/BATT INSULATION

2 PLY STRIPPING
4 PLY C.T.B. MEMBRANE
1/2" FIBERBOARD INSULATION
16" TAPERED EDGE STRIP
TAPERED ISOCYANURATE INSULATION -
THICKNESS VARIES
EXISTING CONCRETE DECK

NOTE: EXTEND CONDUITS AND WIRING AS REQ'D. USING LIKE MATERIALS

MULTIPLE PENETRATION
STRIP IN TERMINATION BAR & TOP EDGE OF FLASHING W/ FABRIC & MASTIC

1"X1/8" ALUMN. TERMINATION BAR W/ PREPUNCHED HOLES 8" O.C.

S.S. SCREW FASTENER W/ WASHER 8" O.C.

COMPOSITION FLASHING

TERMINATION BAR
24" x 24" x 2" CONCRETE PAVERS

2" RIGID INSULATION BOARD WITH CEMENTITIOUS TOPPING
CUT TO FIT SLOPE

DRAINAGE BOARD WITH FILTER FABRIC
4 MIL POLY, TURN UP AT WALLS

REMOVE AND REHANG DOOR TO RECEIVE NEW FLASHING

REMOVE AND RESET BRICKS AT DOOR JAMBS TO EXTEND
NEW SS. SILL FLASHINGS

PROVIDE NEW ALUM. THRESHOLD AND WEATHER STRIPPING
TO MATCH EXISTING

NEW .018 SS. SILL FLASHING, EXTEND ONTO
EXISTING THRU WALL METAL FLASHING AND SOLDER JOINTS

TERMINATION BAR FASTEN 6" OC. AND SEAL OFF
WITH FABRIC AND FLASHING CEMENT. SEE DETAIL 3/R-6

1/2" PT PLYWOOD

3 PLY COMPOSITION BASE FLASHING

FIBER CANT STRIP

18" TAPERED EDGE STRIP

PRIME EXISTING DECK SURFACE

15  FLASHING AT DOOR TO ROOF ( IRMA ROOF )
20 OZ. COPPER CONTINUOUS HOOKSTRIP
SECURED 12" OC. WITH HIT-NAILS

20 OZ. L.C.C. COPING

ROsin Paper AND
ICE AND WATERSHIELD

EXISTING MASONRY CAP

CONT. 20 OZ. COPPER HOOKSTRIP
SECURE WITH COPPER NAILS 3" OC.

3 PLY COMPOSITION BASE FLASHING

FIBER CANT STRIP

2" RIGID INSULATION BOARD WITH
CEMENTITIOUS TOPPING

4-PLY MEMBRANE

DRAINAGE BOARD WITH FILTER FABRIC
4 MIL POLY, TURN UP AT WALLS

3/4" PT. PLYWOOD

CONTINUOUS PT. WOOD NAILER
SECURED TO MASONRY WALL WITH
RAWL FASTENERS 24" OC. MAX.

1 1/2" + AT ROOF No 4 & 7

COPING AND FLASHING DETAIL ( IRMA ROOF )
Louver Flashing Detail (IRMA)

1. Provide new SS. screen to match existing
2. Remove existing louvers, modify for new flashings, reinstall existing louvers.
3. Provide new 20 oz. L.C.C. counter flashing, pan up at back edge and ends 2'' secure with SS. screws 3'' OC.
4. Provide insulation board with cementitious topping, see detail 3/R-6.
5. Termination bar fasten 6'' OC. and seal off with fabric and flashing cement.
6. 2'' rigid insulation base flashing:
   - Fiber Cant Strip
   - Drainage board with filter fabric
   - 4 Mil Poly, turn up at cant
   - 4-Ply Membrane
7. Provide new 20 L.C.C. Louver with screen at side of louver enclosure. Size of louver shall be equal to lost ventilation of existing louver.

Note: Provide new SS. louver with screen at side of louver enclosure. Size of louver shall be equal to lost ventilation of existing louver.
Glazed Wood Laboratory Doors

Doors shall be glazed with glass starting at 38" above bottom edge of door, with 6" stiles and head. Hardware shall be mounted at 36" to C.L. of hardware above bottom edge of door. If manufacturer cannot provide the 6" stile, 7" is acceptable.
ROOM SIGN TYPE A (FOR INDIVIDUAL ROOMS)

DRAWING TITLE: YSM SIGNAGE

DRAWING NO: SK-1

FILE NO: JOB NAME: YSM SIGNAGE STANDARDS

SCALE: N.T.S. DATE: 8/6/09

JOB NO: N/A PAGE NO:
BUILDING IDENTIFICATION STRIP;
PROVIDED BY YSM FCM, 
INSTALLED BY CM.

1/32" RAISED BLACK NUMERALS
SUBSURFACE SILK-SCREENED
RULE

INNERFACE MODULE 2.0 ACRYLIC
ADA SIGN PANEL COLOR TO BE
SELECTED BY ARCHITECT,
UNLESS NOTED OTHERWISE ON
MESSAGE SCHEDULE.

BOTTOM OF LETTER

TOP OF BRAILLE

GRADE I BRAILLE
GRADE II BRAILLE

DEPARTMENT AND/OR OCCUPANT
NAMES ON PAPER INSERT

CHANGEABLE PAPER INSERT
LOADED FROM LEFT & RIGHT SIDES

ROOM SIGN TYPE B (FOR SUITES OF ROOMS)

SK-2
COLORED BLDG I.D. STRIP:
AT CORRIDOR DOORS ONLY

TYPE A & B:
CONTAINS TACTILE ROOM NUMBER(S)

TYPE C:
USE AT SUITES AND LABS.

TYPICAL ENTRY DOOR SIGNS

TYPE A, B & C:
SEE ABOVE

TYPE D & E

ADDITIONAL LAB SAFETY CARD HOLDERS
AT ALL LAB & LAB SUPPORT ENTRY DOORS

SIGN LOCATIONS

NOTE: ALL SIGNS TO BE AT LATCH SIDE OF DOOR
SIGN LOCATIONS (Change #48, 8/11/09)

Construction Manager to provide sign modules at all doors as part of the construction project as follows:

Office: Type A
Office suite: Types B & C
Lab (with no interior rooms): Types A, C, D & E
Lab (with interior rooms): Types B, C, D & E
Lab support: Types A, D & E
All other rooms: Type A (unless directed otherwise)
Corridor Closets: See Section VII, Corridor Finish Treatments, Drawing No. 4A

Note: Only types A&B contain room numbers
**SIGNAGE SCHEDULE (EXAMPLE)**

<table>
<thead>
<tr>
<th>TAG</th>
<th>SIGN TYPE</th>
<th>ROOM NUMBER</th>
<th>ROOM NAME</th>
<th>MESSAGE (TACTILE CHARACTERS ON SIGN TYPES A &amp; B)</th>
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<tbody>
<tr>
<td>T-1</td>
<td>B, D, E</td>
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<td>B &amp; C</td>
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<td>A, D, E</td>
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<td>LAB 1</td>
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<td>M</td>
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<td>EMERGENCY EYE WASH</td>
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<td>B, D, E</td>
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<td>LAB 2</td>
<td>E60</td>
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<td>EQUIPMENT ROOM</td>
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<td>E63</td>
<td>EQUIPMENT ROOM</td>
<td>E63</td>
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*NOTE: CM TO PROVIDE POST-IT NOTE MOCK-UP OF SIGNAGE LOCATIONS; ARCHITECT & YSM TO REVIEW PRIOR TO RELEASE.*

**YSM SIGNAGE NOTES:**

- MANUFACTURER: INNERFACE ARCHITECTURAL SIGNAGE, INC. OF LIBURN, GEORGIA
- SIGN COLOR: IN ACCORDANCE WITH YSM DESIGN STANDARDS
- RAISED CHARACTER COLOR: BLACK, HELVETICA REGULAR
- NOTE: ALL SIGNS SHALL BE FURNISHED WITH MATCHING REMOVABLE BLANK INSERTS.
Signs for Emergency Showers and Eyewashes (Change # 11, 9/1/2005)

Signs shall be provided at all emergency showers and eyewashes as follows:

Layout/graphics as shown on the 2 following attachments

Material to be white PVC, 6" x 6", with adhesive backing

Mount on centerline of fixture, 48" minimum to 60" maximum to the top of the letters

Signs are available from Signlite, Inc, North Haven
Emergency Shower
Emergency Eye Wash
Coffee Cubbies (change#30 1/15/10)

Coffee cubbies in accordance with following sketch are to be provided in renovated corridors except when the corridor is demolished as for a full floor renovation. Provide sufficient shelf length so that each occupant has convenient access and space for at least one beverage container. When corridors are fully demolished and rebuilt coffee cubbies are to be integrated into the corridor design in sufficient quantities to meet above criteria.
LAMINATE BACK:
NEW HAVEN
ALTOOST
WALL STREET ALLUSION

INSET BACK & PROVIDE "Z" CLIPS FOR MOUNTING

SHelves & Shelves:
5/8" MAPLE CLEAR FINISH

(OR MATCH EXISTING SPECIES & FINISH)

SECURE WITH CONCEALED METAL ANGLES BEHIND & BELOW

ALIGN WITH BOTTOM OF LAB SIGNS