DEPARTMENT OF
HOUSING AND HUMAN CONCERNS
COUNTY OF MAUI

ALAN M. ARAKAWA
Mayor
CAROL K. REIMANN
Director
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COUNTY COUNCIL

July 10, 2017

Honorable Alan M. Arakawa
Mayor, County of Maui
200 South High Street
Wailuku, Hawaii 96793

For Transmittal to:

Honorable Chair Stacy Crivello
Housing, Human Services,
and Transportation Committee
Maui County Council
200 South High Street
Wailuku, Hawaii 96793

APPROVED FOR TRANSMITTAL
Mayor 7/11/17 Date

Dear Chair Crivello:

SUBJECT: COUNTY-OWNED PARCEL ON NORTH PAPA AVENUE (KAHULUI) (HHT-14)

Thank you for your correspondence of June 20, 2017 pertaining to your committee's discussion on the above subject. Your committee requested the Department's assistance in ensuring the scope of the feasibility study includes the items listed below in bold which are followed by the Department's responses.

1. **A copy of the renovation plans UHMC has prepared for the three dorm structures and recreation center on property.**

   Per your request, please see attached plans developed for UHMC to transform the old dormitories into a Hospitality Training Academy.

2. **The best use of the property, including the feasibility and practicality of establishing a mixed-use project involving affordable rental units and a homeless facility.**

   The best use of the property will be determined after a structural engineer has evaluated the soundness of the existing buildings. The buildings have sat vacant and unused for a length of time and, therefore, a full structural assessment would be required to address potential safety concerns. The

plan is to first conduct a forensic study of the existing structures, and then hire a consultant to move forward, depending upon the forensic results. The department is currently preparing the RFP to hire a structural engineer.

3. **Whether existing structures on the property are sound and should be renovated, or whether they should be demolished.**

   Please see response to question 2.

4. **Any useful accessories such as a bus stop to the project.**

   There is currently a bus stop located at Roselani Place, which is across the street from the parcel.

5. **A projected timeframe for completion.**

   Until we can assess the viability of the existing structures, coming up with a timeframe is premature.

In response to your request for confirmation on whether UHMC intends to remain on the lease agreement until the year 2035, we have confirmed that UHMC has decided to move their training academy to a location on campus and has no intention of continuing the lease. The Department is prepared to terminate with UHMC once we determine if we can salvage the existing structures. If the buildings need to be demolished, then UHMC will pay for the demolition; after which, the department will terminate the lease.

Thank you for the opportunity to provide this information. Should you have any questions, please feel free to contact me at Ext. 7805.

Sincerely,

CAROL K. REIMANN
Director of Housing and Human Concerns

Attachment

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK. ALL DISCREPANCIES SHALL BE PROMPTLY REPORTED TO THE ENGINEER.
2. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
3. ALL WORK SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE (IBC), LATEST EDITION, AS ADOPTED BY THE STATE OF HAWAII.
4. UNLESS SPECIFICALLY DETAILED ELSEWHERE, CONTRACTOR SHALL FOLLOW TYPICAL DETAILS ON SHEETS S0-01 THROUGH S0-03.
5. WHERE CONDITIONS HAVE NOT BEEN SPECIFICALLY INDICATED BUT ARE SIMILAR TO DETAILS SHOWN ON SHEETS S0-01 THROUGH S0-03, MODIFY TYPICAL DETAILS TO MEET SPECIAL CONDITIONS.
6. STRUCTURAL DRAWINGS WHERE INDICATED HAVE BEEN DRAWN TO APPROXIMATE SCALE. UNLESS DRAWING SPECIFICALLY PROVIDES A DIMENSION, THE CONTRACTOR SHALL NOT USE OR SCALE STRUCTURAL DRAWINGS TO DETERMINE DIMENSIONS.
7. PRIOR TO ANY DEMOLITION AND DURING CONSTRUCTION, THE EXISTING STRUCTURES SHALL BE SHORED AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING FOR ALL STRUCTURAL MEMBERS AS REQUIRED FOR STRUCTURAL STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

REINFORCING STEEL

1. UNLESS OTHERWISE INDICATED ON PLANS AND/OR SCHEDULE, ALL REINFORCING STEEL SHALL BE HIGH STRENGTH GRADE DEFORMED BARS WHICH SHALL CONFORM TO THE STANDARD SPECIFICATION OF ASTM A615 GRADE 60. ALL REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60. FOR SPECIAL CHORD REINFORCEMENT ASTM 615 GRADE 75 BARS SHALL BE USED AS SPECIFIED ON PLANS.
2. LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING TO REINFORCING BARS.
3. REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED. SPLICES AT OTHER LOCATIONS SHALL BE MADE AWAY FROM POINTS OF MAXIMUM STRESS AND APPROVED BY THE ENGINEER. SEE DETAILS FOR "LAP SPLICES".
4. BARS NOTED AS "CONT." VERTICAL AND HORIZONTAL WALL REINFORCING AND COLUMN REINFORCING SHALL HAVE A MINIMUM SPLICE EQUAL TO 48 BAR DIAMETERS BUT NOT LESS THAN 24 INCHES.
5. WHERE MECHANICAL SPLICES, ARE REQUIRED, SPLICES SHALL BE ABLE TO DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR AND SHALL BE STAGGERED 3'-0" BETWEEN ADJACENT BARS.
6. PROVIDE DOWELS IN FOOTINGS THE SAME SIZE AND NUMBER AND IN THE SAME LOCATION AS VERTICAL COLUMN REINFORCING. DOWELS SHALL HAVE A MINIMUM PROJECTION EQUAL TO 48 BAR DIAMETERS BUT NOT LESS THAN 24 INCHES.
7. ALL REINFORCING STEEL, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.
8. MINIMUM CONCRETE COVER:

   A.) MINIMUM COVER FOR CAST-IN-PLACE CONCRETE (NON-PRESTRESSED): THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

	COVER (IN)
(1) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
(2) FORMED CONCRETE SURFACES EXPOSED TO EARTH OR WEATHER:	
NO. 6 THROUGH NO. 18 BARS	2"
NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER	1½"
(3) CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALL, JOISTS:	
NO. 14 AND NO. 18 BARS	1½"
NO. 11 BAR AND SMALLER	¾"
BEAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1½"

   C.) CONCRETE COVER TOLERANCE SHALL BE AS FOLLOWS:

(1) FORMED SOFFITS OR MEMBERS 4" OR LESS IN THICKNESS	+⅜"-¼"
(2) MEMBERS 12" THICK OR LESS	±½"
(3) MEMBERS GREATER THAN 12" THICK	±¾"

   FOR ALL CASES, THE COVER SHALL NOT BE LESS THAN ½ OF WHAT IS INDICATED AND REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

   D.) WHEN THE IBC REQUIRES A THICKNESS OF COVER FOR FIRE PROTECTION GREATER THAN THE MINIMUM CONCRETE STATED ABOVE, SUCH GREATER THICKNESS SHALL BE USED.

CONCRETE BLOCK MASONRY

1. ALL MASONRY WORK SHALL CONFORM TO ACI 530-05.
2. CONCRETE BLOCK SHALL BE TYPE II HOLLOW LOAD BEARING UNITS.
3. MASONRY MORTAR SHALL BE TYPE "M", WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI CONFORMING TO ASTM C270.
3. MASONRY GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI.
4. ALL CELLS SHALL BE GROUTED SOLID. GROUT IN LIFTS NOT TO EXCEED 8'-0".
5. UNLESS NOTED OTHERWISE, ALL WALLS SHALL BE CONSTRUCTED IN CONVENTIONAL RUNNING BOND.
6. AT CMU WALLS PROVIDE HORIZONTAL JOINT REINFORCING AT 16" O.C.
7. WIRE POSITIONERS – CMU WALL REINFORCING SHALL BE SECURED AGAINST DISPLACEMENT BY GALVANIZED NO. 9 GAUGE WIRE POSITIONERS SPACED AT NOT MORE THAN 200 TIMES THE BAR DIAMETER.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO ACI 318-05.
2. SLEEVES EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. PIPE MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES BUT SHALL NOT BE EMBEDDED THEREIN.
3. SECURE ALL BOLTS, ANCHORS, INSERTS, ETC. AND VERIFY ALL GROOVES, SLOTS, AND FINISHES PRIOR TO PLACING CONCRETE.
4. VERIFY LOCATIONS AND DIMENSIONS OF SLOTS, ANCHORS, DUCTS, ETC., RELATING TO MECHANICAL, ELECTRICAL AND ARCHITECTURAL WORK BEFORE POURING CONCRETE.
5. ALL CONCRETE WORK SHALL BE THOROUGHLY CONSOLIDATED DURING PLACEMENT USING A MECHANICAL VIBRATOR. BACKUP (EXTRA) VIBRATOR(S) SHALL BE PRESENT AT EACH FOR IN CASE OF FAILURE.
6. ALL CONCRETE SHALL BE CURED FOR A PERIOD OF NOT LESS THAN 7 DAYS.
7. LOCATIONS OF ALL CONSTRUCTION OR COLD JOINTS SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.
8. 48 HOURS PRIOR TO THE POURING OF ANY STRUCTURAL CONCRETE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO AN INSPECTION CAN BE MADE OF ALL FORMS AND REINFORCING STEEL.
9. THE 28-DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE AS FOLLOWS:

	STRENGTH (PSI)	MAX. AGGREGATE	W/C RATIO
BUILDING SLAB ON GRADE, EXTERIOR WALKWAY AND LANDINGS	4,500	½"	0.45
FOOTINGS AND GRADE BEAMS	4,500	½"	0.45

EPOXIED ANCHORS:

1. ADHESIVE SHALL BE AN INJECTABLE TWO-COMPONENT EPOXY SUCH AS SIMPSON SET-XP, HILTI HIT RE-500 SD OR APPROVED EQUAL.
2. INSTALLATION OF EPOXIED ANCHORS SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS.
3. THREADED ANCHOR RODS SHALL BE HOT DIP GALVANIZED AND CONFORM TO ASTM A-193, GRADE B7. THREADED ANCHOR RODS SHALL BE UNC FULLY THREADED, CLEAN, STRAIGHT AND FREE OF INDENTATIONS OR OTHER DEFECTS ALONG THEIR LENGTH.
4. HOLES SHALL BE DRILLED WITH A CARBIDE-TIPPED DRILL BIT. IF HOLES ARE CORE DRILLED WITH DIAMOND-CORE BITS, EPOXY ADHESIVE SELECTED FOR USE BY THE CONTRACTOR SHALL BE SUITABLE FOR THIS APPLICATION WITH NO REDUCTION IN PUBLISHED ALLOWABLE SHEAR AND TENSION LOADS.
5. DIAMETER OF HOLES SHALL BE EQUAL TO THREADED ROD DIAMETER +⅛".
6. ANCHORS SHALL BE INSTALLED IN CONCRETE/CMU THAT HAS REACHED ITS FULL DESIGN COMPRESSIVE STRENGTH.
7. INSTALLATION OF EPOXIED ANCHORS SHALL BE PERFORMED UNDER THE SUPERVISION OF A SPECIAL INSPECTOR IN ACCORDANCE WITH SECTIONS 1704.4 AND 1704.13 OF THE IBC. THE SPECIAL INSPECTOR MUST BE ON THE JOBSITE TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE/CMU COMPRESSIVE STRENGTH, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE.

DESIGN LOADS

1. SLOPED ROOF LIVE LOAD: . . . . . 20 PSF
2. FLOOR LIVE LOADS:
   RESIDENTIAL . . . . . 40 PSF
   STAIRS . . . . . 100 PSF
3. WIND 105 MPH PER IBC, EXPOSURE C, Iw=1.0, Kzt = 1.6
4. SEISMIC, PER IBC, Sds=0.98, Si =0.252, Ie=1.0, SITE CLASS D
5. ALL COMPONENTS TO BUILDING SHALL BE SECURED PROPERLY TO RESIST LATERAL SEISMIC FORCES IN ACCORDANCE TO THE IBC. DESIGN OF ATTACHMENTS FOR COMPONENTS SHALL BE THE RESPONSIBILITY OF SUB-CONTRACTOR INSTALLING SUCH COMPONENT

SPECIAL INSPECTION REQUIREMENTS LIST BELOW

SPECIAL INSPECTION REQUIREMENTS:

1. THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR FOR WORK REQUIRING SPECIAL INSPECTION PER CHAPTER 17 OF THE 2006 IBC AS ADOPTED BY THE COUNTY OF MAUI.
2. SPECIAL INSPECTION FIRM SHALL HAVE AT LEAST 6 YEARS OF EXPERIENCE AND SHALL BE CERTIFIED WITHIN THE BUILDING DEPARTMENT JURISDICTION OF CONSTRUCTION (IF SUCH CERTIFICATION EXIST).
3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE SPECIAL INSPECTOR TO ENSURE THAT ALL ELEMENTS REQUIRING SPECIAL INSPECTION ARE INSPECTED.
4. SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING TYPES OF WORK:
   A. CONCRETE:
      OBSERVE THE TAKING OF TEST SPECIMENS AND THE PLACING OF CONCRETE FOR ALL ELEMENTS.
   B. REINFORCING STEEL:
      OBSERVE THE PLACEMENT OF ALL REINFORCING. THE SPECIAL INSPECTOR NEED NOT BE PRESENT CONTINUOUSLY DURING THE PLACING OF REINFORCING STEEL, PROVIDED HE HAS INSPECTED FOR CONFORMANCE WITH THE APPROVED PLANS PRIOR TO THE CLOSING OF FORMS FOR THE DELIVERY OF CONCRETE TO THE JOBSITE.
   C. ANCHOR BOLTS FOR STEEL COLUMNS AND POST
   D. EXPANSION BOLTS AND EPOXIED ANCHORS/REBAR
   E. CONTINUOUS LOAD PATH AND SHEARWALL HOLD DOWNS

CONCRETE REPAIR/REHABILITATION

PROJECT CONDITIONS:

1. DO NOT APPLY MATERIAL IF IT IS RAINING OR IF RAIN IS IMMINENT.
2. PRECAUTIONS SHOULD BE TAKEN TO AVOID DAMAGE TO ANY SURFACE NEAR THE WORK ZONE DUE TO SPILLAGE.
3. LEAVE FINISHED WORK IN NEAT, CLEAN CONDITION WITH NO EVIDENCE OF SPILL OVER ONTO ADJACENT SURFACES.

PRODUCTS:

1. ANTI-CORROSION PROTECTIVE COATING (CORROSION INHIBITOR): TWO-COMPONENT, ACRYLIC RESIN EPOXY SYSTEM FORMULATED TO INHIBIT THE CORROSION OF REINFORCING STEEL AND TO ACT AS A BONDING AGENT. SUCH AS: SIKA ARMATEC 110 EPOCEM, MASTER EMACOP124,OR APPROVED EQUAL.
2. FAST SETTING, HIGH STRENGTH PATCHING MORTAR (POLYMER MODIFIED MORTAR) FOR HORIZONTAL APPLICATIONS: ACRYLIC POLYMER-MODIFIED, PORTLAND CEMENT BASED, TROWEL-GRADE PATCHING MORTAR. CONFORM TO REQUIREMENTS OF ASTM C 884, SUCH AS SIKATOP 122 PLUS, MASTER EMACO R310 OR T430, OR APPROVED EQUAL.
3. FAST SETTING, HIGH STRENGTH PATCHING MORTAR (POLYMER MODIFIED MORTAR) FOR VERTICAL APPLICATIONS: TWO-COMPONENT (OR SINGLE COMPONENT), ACRYLIC POLYMER-MODIFIED, PORTLAND CEMENT BASED, NON-SAG PATCHING MORTAR. CONFORM TO REQUIREMENTS OF ASTM C 884, SUCH AS SIKATOP 123 PLUS, MASTER EMACO N426, OR APPROVED EQUAL.

PREPARATION -GENERAL:

1. ACI 503R, ACI 503.2, ACI 503.4 FOR EPOXY RESIN SYSTEMS. MIX THE PATCHING MATERIALS WITH OR WITHOUT FILLERS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL APPLICATIONS OF THE MIXED MATERIALS SHALL BE PERFORMED WITHIN THE WORKING LIFE OR POT LIFE OF THE PATCHING SYSTEM. UNUSED MIXED MATERIALS WHICH HAVE REACHED THE END OF THE WORKING OR POT LIFE SHALL BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE. FIELD MIXING AND SIZE OF BATCH SHALL BE DETERMINED BY THE CONTRACTOR. PATCHING SYSTEMS SHALL BE PROVIDED AS INDICATED AND REQUIRED BY SPECIFICATIONS.
2. CLEANING: PREPARE ALL SURFACES REQUIRING PATCHING SO THAT THEY WILL BE STRUCTURALLY SOUND, CLEAN, AND FREE OF DIRT, LOOSE CONCRETE, LOOSE MORTAR PARTICLES, PAINT, FILMS, PROTECTIVE COATINGS, EFFLORESCENCE, LAITANCE, AND OTHER MATTER DETRIMENTAL TO PROPER ADHESION.
3. CHECK AREAS AROUND CRACKS, BLISTERS, OLD PATCHES, AND RUST SPOTS BY TAPPING SURFACE WITH A HAMMER, OTHER BLUNT INSTRUMENT, OR USING A CHAIN, SOUND FOR LOOSE OR HOLLOW AREAS AND MARK AREAS FOR REMOVAL OF UNSOUND CONCRETE OR MORTAR.
4. ALL AREAS WHERE CRACKS EXIST AND THE CONCRETE IS NOT IN A STATE OF CONCRETE DELAMINATION AS DETERMINED BY SOUNDING WITH A HAMMER OR CHAIN SHALL BE CLEANED OF ALL DIRT, LOOSE MORTAR PARTICLES, PAINT, FILMS, LAITANCE AND ALL OTHER MORTAR DETRIMENTAL TO PROPER ADHESION.
5. REMOVE UNSOUND MATERIALS AND FILMS BY MEANS OF CHIPPING, SAW CUTTING, BUSH HAMMERING, NEEDLE GUNNING, SAND BLASTING, OR OTHER SUITABLE METHOD.
6. WASH DEBRIS FROM WORK SURFACES WITH CLEAN WATER. REMOVE ANY REMAINING EFFLORESCENCE BY ACID WASH, MURIATIC OR SIMILAR, AND RINSE WITH CLEAN WATER.

PREPARATION – REINFORCEMENT:

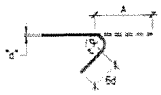
1. MECHANICALLY REMOVE ALL RUST AND LOOSE MATERIAL FROM ALL EXPOSED RUSTED REINFORCING STEEL TO SOUND METAL BY POWER BRUSHING, NEEDLE SCALER, OR SAND BLASTING.
2. APPLY ANTI-CORROSION PROTECTIVE COATING ACCORDING TO MANUFACTURER'S PRINTED INSTRUCTIONS TO ALL EXPOSED AND CLEANED REINFORCEMENT BARS AND CONCRETE SURFACES TO RECEIVE PATCH.
3. USING BRUSH OR ROLLER, SCRUB PRIMER BONDING AGENT ONTO WORK SURFACES WHILE ALSO COMPLETELY COATING EXPOSED REINFORCING STEEL AND CONCRETE.
4. DO NOT RESURFACE OVER HARDENED PRIMER BONDING AGENT. IF PRIMER BONDING AGENT BECOMES TACK FREE, MECHANICALLY ROUGHEN SURFACE AND REPRIME.

SPALL REPAIR (INCLUDES CRACKED/CLOSED SPALL CORNER OF PEDESTAL):

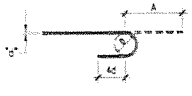
1. SAW CUT OR ROUT OUT SPALLS TO A MINIMUM WIDTH AND DEPTH OF 1/2 INCH.
2. REFER TO GENERAL PREPARATION INSTRUCTIONS ABOVE.
3. IF REINFORCING BAR IS EXPOSED, REFER TO REINFORCING PREPARATION INSTRUCTIONS ABOVE.
4. MECHANICALLY SCARIFY WORK SURFACES TO OBTAIN AGGREGATE FRACTURE WITHIN A MINIMUM SURFACE PROFILE OF PLUS OR MINUS 1/8 INCH.
5. APPLY PRIMER BONDING AGENT PER ABOVE INSTRUCTIONS AND MANUFACTURER'S PRINTED INSTRUCTIONS.
6. WHILE PRIMER BONDING AGENT IS STILL TACKY, MIX AND APPLY PREPARED PATCHING MORTAR TO PREPARED SPALL FOLLOWING MANUFACTURER'S PRINTED INSTRUCTIONS.
7. PLACE PATCHING MATERIAL IN THIN LAYERS AS RECOMMENDED BY THE MANUFACTURER. EACH INTERMEDIATE LAYER SHALL BE CROSS-SCRATCHED FOR MECHANICAL BONDING. ALL LAYERS FOR EACH PATCH SHALL BE PLACED ON THE SAME DAY. USE HAND TEMPERS TO CONSOLIDATE THE PATCHING MATERIAL. LEVEL EACH LAYER AND SCREED THE FINAL SURFACE. REMOVE EXCESS PATCHING MATERIAL ON ADJACENT SURFACES BEFORE IT HARDENS. DO NOT FEATHER OUT ONTO ADJACENT SURFACES. UPON COMPLETION OF FINISHING OPERATIONS, APPLY EVAPORATION REDUCER AND THEN APPLY CURING COMPOUND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROTECT PATCHES WITH WATERTIGHT FORMS AND/OR COVERS UNTIL THE PATCHES ARE PROPERLY CURED.
8. USE PROPER PATCHING MATERIAL DEPENDING ON IF THE LOCATION OF THE SPALL IS HORIZONTAL, VERTICAL, OR OVERHEAD.
9. MINIMUM DEPTH OF SPALL PATCH OVER REINFORCING SHALL BE 1 INCH.
10. DO NOT FEATHER EDGES OF SPALL PATCH. SAW CUT OR ROUT EDGE OF REPAIR TO OBTAIN A 1/2 INCH MINIMUM VERTICAL EDGE TO REPAIRED AREA.
11. FINISHED PATCHED SPALL SHOULD MATCH EXISTING SURFACES IN TEXTURE AND APPEARANCE.
12. AT EXPOSED AREAS, GRIND THE REPAIRED PATCH FLUSH WITH SURROUNDING SURFACES; PATCH TEXTURE TO MATCH EXISTING.

ABBREVIATIONS

A.B.	ANCHOR BOLT	HSB	HIGH STRENGHT BOLT
ARCH.	ARCHITECTURAL OR ARCHITECT	INT.	INTERIOR
@	AT	JT	JOINT
BAL.	BALANCE	KSF	KIPS PER SQUARE FOOT
BOT.	BOTTOM	LONG.	LONGITUDINAL
BM.	BEAM	MAX.	MAXIMUM
B.T.B.	BASALTIC TERMITE BARRIER	M.B.	MACHINE BOLT
C.I.P.	CAST IN PLACE	MECH.	MECHANICAL
C.J.	CONSTRUCTION OR CONTROL JOINT	MIN.	MINIMUM
C.J.P.	COMPLETE JOINT PENETRATION WELD	N.T.S.	NOT TO SCALE
CL	CENTER LINE	NO.	NUMBER
CLR.	CLEAR	O.C.	ON CENTER
CMU	CONCRETE MASONRY UNIT	OPP.	OPPOSITE
COL.	COLUMN	PL.	PLATE
CONC.	CONCRETE	PSI.	POUNDS PER SQUARE INCH
CONT.	CONTINUOUS	PSF	POUNDS PER SQUARE FOOT
CONN.	CONNECTION	R.F. OR	REINFORCED OR
Db	REBAR DIAMETER	REINF.	REINFORCEMENT
DIA. OR ø	DIAMETER	REQ'D.	REQUIRED
DIAG.	DIAGONAL	SHT.	SHEET
DIMS.	DIMENSIONS	SP.	SPACE OR SPACES
DET.	DETAIL	SIM.	SIMILAR
EA.	EACH	SQ.	SQUARE
E.J.	EXPANSION JOINT	STD.	STANDARD
E.F.	EACH FACE	T. & B	TOP AND BOTTOM
EL.	ELEVATOR	THK.	THICK
ELEV.	ELEVATION	T.O.C.	TOP OF CONCRETE
EQ.	EQUAL	T.O.F.	TOP OF FOOTING
EXP.	EXPANSION	T.O.S.	TOP OF SLAB
EXT.	EXTERIOR	T.O.W.	TOP OF WALL
E.W.	EACH WAY	TRANS.	TRANSVERSE
F.P.	FULL PENETRATION	TYP.	TYPICAL
FT.	FOOT OR FEET	VERT.	VERTICAL
FTG.	FOOTING	W/	WITH
GA.	GAGE	W/O	WITH OUT
GALV.	GALVANIZE	W.J.	WALL JOINT
HDG OR H.D.G.	HOT DIPPED GALVANIZED	W.W.F	WELDED WIRE FABRIC
HORIZ.	HORIZONTAL	W.W.M.	WELDED WIRE MESH



BAR BEND 135°



STANDARD HOOK 180°

BAR SIZE	D
#3,#4,#5	6d
#6,#7,#8	8d
#9,#10,#11	8d
#14,#18	10d

BAR BEND 90°

MINIMUM EXTENSION LENGTHS "A"

BAR SIZE	STANDARD HOOKS		TIES AND STIRRUPS	
	180° HOOKS	90° HOOKS	90° HOOKS	135° HOOKS
#3	6"	7"	5"	6"
#4	8"	9"	6"	7"
#5	9"	11"	7"	9"
#6	11"	13"	14"	12"
#7	12"	15"	15"	14"
#8	14"	17"	19"	16"

(A) S0-00 TYPICAL REBAR BENDING

NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	APP. BY	DATE

BERNARD ISHII-NAKAYAMA LICENSED PROFESSIONAL ENGINEER No. 7158-S HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of the License 4/30/15

UNIVERSITY OF HAWAII
STATE OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5382
224BA & 224BE HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

GENERAL NOTES AND TYPICAL DETAILS

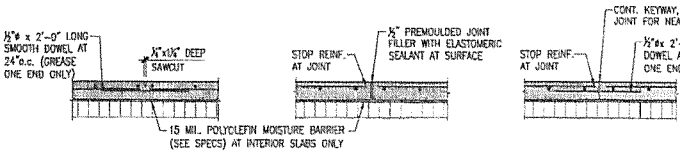
SLSH & ASSOC., INC.
1315 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96814

PROJECT NO. CC-11-5382

SHEET S0-00

DESIGNED BY BNIN | DRAWN BY MM | CHECKED BY RL | APPROVED BY RL | DATE 3-30-2015

SHT. 48 of 102 SHEETS

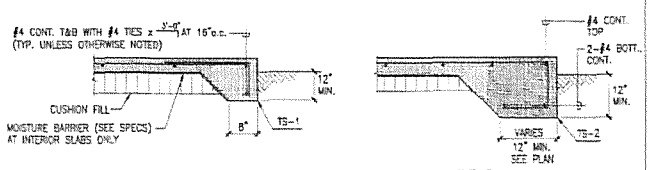


TYP. CONTROL JOINT (C.J.) TYP. EXPANSION JOINT (E.J) TYP. CONSTRUCTION JOINT

SAWCUT SHALL BE PERFORMED WITHIN 8 HOURS OF POUR AND AS SOON AS SLAB HAS SET AND IS FIRM ENOUGH SUCH THAT SAWCUT BLADE DOES NOT RIP, TEAR, OR DAMAGE SLAB OR UNRAVEL EDGES

A / S0-01 TYPICAL SLAB JOINT DETAILS

NOT TO SCALE

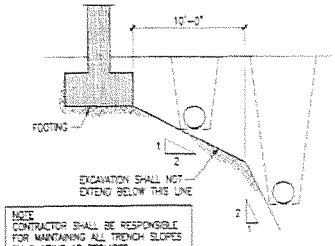


TS-1 TS-2

1. THIS DETAIL IS INTENDED TO SHOW DIMENSION OF THICKENED EDGE SLAB ONLY.
2. ALL SIDEWALK EDGES SHALL HAVE TS-1.

B / S0-01 THICKENED SLAB DETAIL (TS-1 and TS-2)

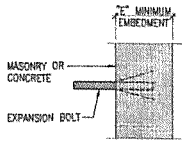
NOT TO SCALE



NOTE
CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TRENCH SLOPES BY SHORING AS REQUIRED

C / S0-01 TRENCH DETAIL

NOT TO SCALE

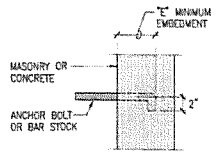


NOTES:
1. GROUT ALL CELLS WITH BOLTS FULL HEIGHT.
2. ALL EXPANSION BOLTS SHALL BE HILTI KWIK BOLT II, HOT DIP GALV. ANCHORS OR EQUAL HAVING THE FOLLOWING MINIMUM LOAD VALUES.
3. I.C.C REPORT SHALL BE SUBMITTED FOR REVIEW

BOLT SIZE	MINIMUM "E"	MINIMUM ALLOW. SHEAR IN CONC. (#)	MINIMUM ALLOW. SHEAR IN MASONRY (#)
½" DIA.	4"	1550	550
⅝" DIA.	4"	1800	650
¾" DIA.	5"	2100	800
⅞" DIA.	6"	2500	1000
1" DIA.	7"		

D / S0-01 EXPANSION BOLT

NOT TO SCALE

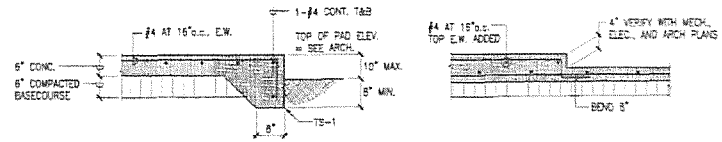


NOTES:
1. GROUT ALL CELLS WITH BOLTS FULL HEIGHT.
2. UNLESS NOTED OTHERWISE, THESE ANCHOR BOLT DETAILS SHALL APPLY
3. ALL ANCHOR BOLTS SHALL BE HOT DIPPED GALVANIZED.

BOLT SIZE	MINIMUM "E"
½" DIA.	6"
⅝" DIA.	8"
¾" DIA.	12"
⅞" DIA.	12"

E / S0-01 ANCHOR BOLT

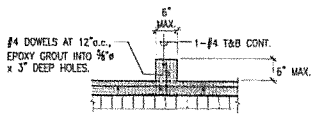
NOT TO SCALE



AT EXTERIOR CONDITION INTERIOR SLAB-ON-GRADE CONDITION

F / S0-01 TYPICAL RAISED PAD AT SLAB-ON-GRADE CONDITION

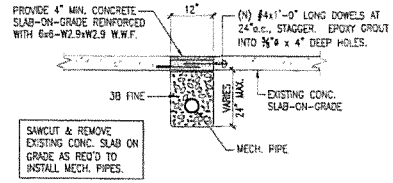
NOT TO SCALE



PLAN

G / S0-01 TYP. CURB AT BASE OF STUD WALL

NOT TO SCALE

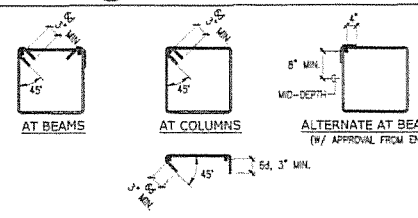


SAWCUT & REMOVE EXISTING CONC. SLAB ON GRADE AS REQ'D TO INSTALL MECH. PIPES.

REPAIR OF CONC. SLAB-ON-GRADE FOR MECH. PIPE INSTALLATION

H / S0-01 SLAB ON GRADE REPAIR DETAIL

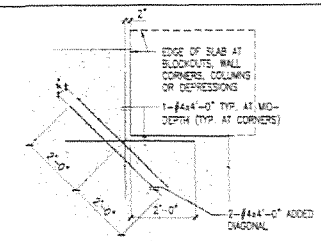
NOT TO SCALE



NOTES:
1. THESE DETAILS SHALL APPLY TO #3, #4, AND #5 BARS - GRADE 40 AND GRADE 60.
2. ALL BARS SHALL BE BENT COLD.
3. MINIMUM FINISHED BEND DIAMETER = 4d FOR #3, 4, AND #15 BARS.

J / S0-01 TYPICAL STIRRUP AND TIE DETAIL

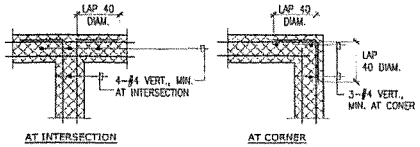
NOT TO SCALE



PLAN

K / S0-01 TYP. S.O.G. RE-ENTRANT CORNER/ BLOCKOUT DETAIL

NOT TO SCALE

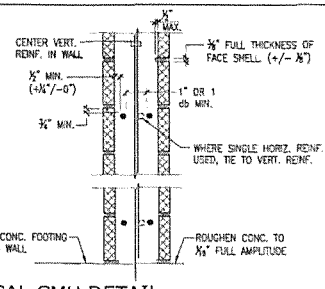


AT INTERSECTION AT CORNER

TWO LAYERS OF REINF.

L / S0-01 TYP. CMU WALL BOND BEAM REINFORCING

NOT TO SCALE



M / S0-01 TYPICAL CMU DETAIL

NOT TO SCALE

LAP SPLICE BAR OFFSET

BAR SIZE	f'c = 3000 PSI		f'c = 4000 PSI	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	24"	24"	24"	24"
#4	29"	24"	25"	24"
#5	36"	28"	31"	24"
#6	43"	33"	37"	29"
#7	63"	48"	54"	42"
#8	72"	55"	62"	48"
#9	81"	62"	70"	54"

NOTES
1. LAP SPLICE LENGTHS ARE FOR CLASS A LAP SPLICES ONLY.
2. LAP SPLICE LENGTHS ARE FOR GRADE 60 DEFORMED BARS.
3. LAP SPLICE LENGTHS SHALL BE IN ACCORDANCE WITH THIS TABLE, UNLESS OTHERWISE SHOWN OR NOTED.
4. FOR CLASS B LAP SPLICE, INCREASE LENGTHS SHOWN IN TABLE BY A FACTOR OF 1.3.
5. BOTTOM BARS AND INTERMEDIATE BARS WITH ≤ 12" OF CONC. BELOW, PROVIDE "OTHER BAR" LAP SPLICE.
6. TOP BARS AND INTERMEDIATE BARS WITH > 12" OF CONC. BELOW, PROVIDE "TOP BAR" LAP SPLICE.

N / S0-01 TYPICAL LAP SPLICE DETAIL

NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	DWN BY	DATE

BEVERLY ISHII-NAKAYAMA LICENSED PROFESSIONAL ENGINEER No. 7138-S HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation. Registration Date of the License: 4/28/78

UNIVERSITY OF HAWAII
STATE OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5362
22A5A & 22A6B HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

TYPICAL DETAILS

SLSH & ASSOC., INC.
1314 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96825

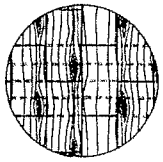
PROJECT NO. CC-11-5362

SHEET S0-01

DESIGNED BY SKSN | CHECKED BY KL | DATE 9-30-2015
DRAWN BY MN | APPROVED BY KL

SIZE 47" x 123 (HORIZ)

Tue, 24 Nov 2015 - 9:15am
C:\ISH\11\5362A - UHCC Hsp Ad MAUI\S0-01 Typical Detailing

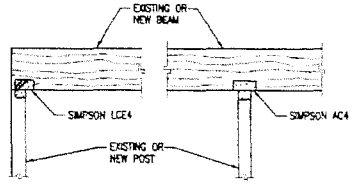


NOTE

1. LAY ALL PLYWOOD WITH FACE GRAIN ACROSS SUPPORTS.
2. STAGGER ALL PANELS.
3. UNLESS NOTED OTHERWISE, FOR SPECIAL SHEARWALL OR DIAPHRAGM LOCATIONS PROVIDE THE FOLLOWING MINIMUM NAILING:
   A. 1/2" PLYWOOD – 8d AT 6" O.C. ALL FRAMING.
   B. 5/8" PLYWOOD – 10d AT 6" O.C. ALL FRAMING.
   C. 3/4" PLYWOOD – 10d AT 6" O.C. ALL FRAMING.
4. PROVIDE SOLID BLOCKING AT ALL RIDGE, VALLEYS AND HIPS.

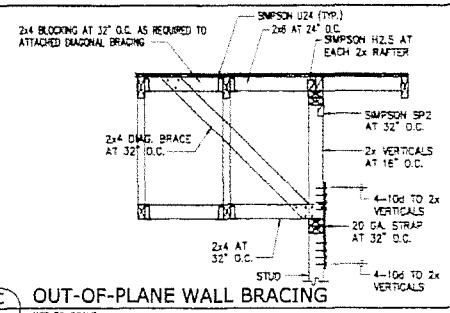
A — TYP. PLYWOOD LAYOUT

S0-02 NOT TO SCALE



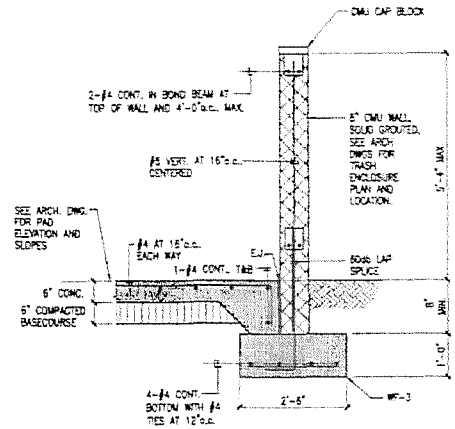
B — TYP. BEAM TO POST CONNECTION

S0-02 NOT TO SCALE



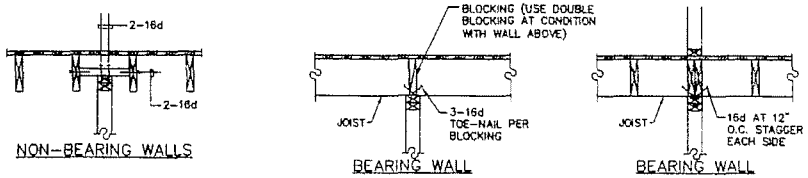
C — OUT-OF-PLANE WALL BRACING

S0-02 NOT TO SCALE



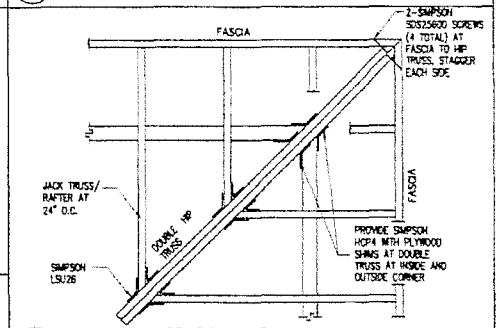
F — SECTION AT TRASH ENCLOSURE

S0-02 SCALE: 3/4" = 1'-0"



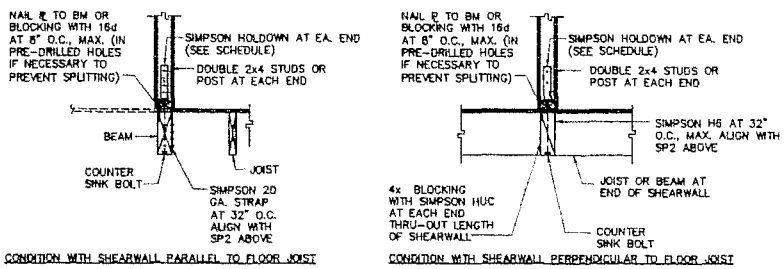
D — TYP. STUDWALL (NON-SHEARWALL) TO FLOOR CONNECTION

S0-02 NOT TO SCALE



E — TYPICAL HIP CORNER

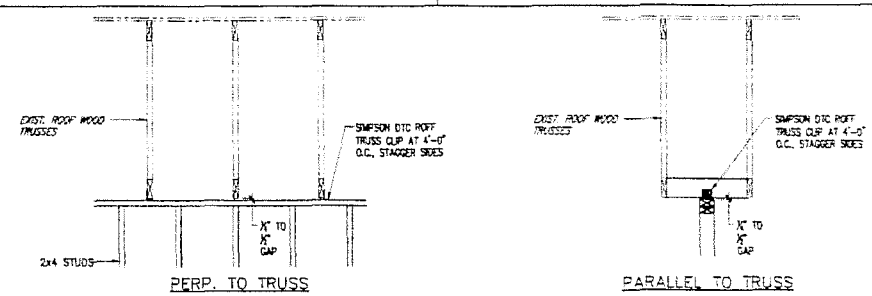
S0-02 NOT TO SCALE



FOR SHEARWALLS ON 2nd FLR WHICH DOES NOT CONTINUE TO 1st FLOOR

G — DETAIL OF SHEARWALL END POST/DBL STD & NAILING REQ'D AT 2ND FLOOR

S0-02 NOT TO SCALE



H — TYP. NON-BEARING STUDWALL TO ROOF CONNECTION

S0-02 NOT TO SCALE

WOOD:

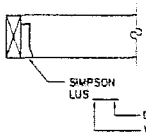
1. ALL WOOD STRUCTURAL MEMBERS SHALL BE DOUGLAS FIR AND SHALL MEET THE FOLLOWING MINIMUM GRADES AS ESTABLISHED BY THE WEST COAST LUMBER INSPECTION BUREAU:
   BEAMS . . . . . NO. 1
   JOISTS/RAFTERS/TRUSS . . . . . NO. 1
   POSTS AND STUDS . . . . . NO. 1
   BLOCKING, PLATES, LEDGERS ETC. . . . . NO. 2
2. PROVIDE 30# FELT BELOW ALL PLATES RESTING ON CONCRETE OR MASONRY.
3. PROVIDE STANDARD WASHERS AT ALL BOLTS AND NUTS BEARING ON WOOD.
4. HOLES THRU PLATES AND STUDS SHALL BE CENTERED IN THE MEMBER AND SHALL NOT EXCEED 1/3 THE PLATE WIDTH.
5. MINIMUM NAILING SHALL COMPLY WITH TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE.
6. ALL PREFABRICATED METAL HANGERS AND CONNECTORS NOTED IN THE DRAWINGS SHALL BE "SIMPSON STRONG-TIE" CONNECTORS, WITH Z-MAX COATING, OR APPROVED EQUALS.
7. ALL WOOD STRUCTURAL MEMBERS SHALL BE TREATED AGAINST ROT AND INSECT DAMAGE. SEE SPECIFICATIONS
8. PROVIDE 2X CONTINUOUS STRUCTURAL FASCIA AT ALL EAVES. FASCIA SUPPORTS HIPS AND LAST RAFTER ON GABLED ROOFS. DO NOT SPLICE FASCIA WITHIN 12'-0" OF CORNERS.

WOOD (CONTINUED):

9. PLYWOOD SHEATHING SHALL BE STRUCTURAL I CONFORMING TO U.S. COMMERCIAL STANDARD PS 1-74, EXCEPT AS NOTED OTHERWISE FOR SPECIAL SHEAR WALL AND DIAPHRAGM CONDITIONS. PROVIDE THE FOLLOWING MINIMUM ATTACHMENT AT ALL SUPPORTED EDGES.
   1/2" PLYWOOD. . . . . 8d AT 6"o.c.
   5/8" PLYWOOD. . . . . 10d AT 6"o.c.
   3/4" PLYWOOD. . . . . 10d AT 6"o.c.
10. ALL PREFABRICATED METAL CONNECTORS SHALL BE BY SIMPSON STRONG-TIE COMPANY.
11. ALL METAL CONNECTORS AND ANCHOR BOLTS SHALL BE HOT-DIPPED GALVANIZED.

GLU-LAM BEAMS:

1. ALL GLUE LAMINATED BEAMS SHALL BE DOUGLAS FIR, 2,400 F SERIES, WITH EXTERIOR TYPE ADHESIVE.
2. ALL BEAMS SHALL BE INDUSTRIAL GRADE, UNLESS NOTED OTHERWISE.
3. ALL LAMINATIONS FOR "DU-LAM" BEAMS SHALL BE 1-1/2" THICK AND OF WIDTH SHOWN OR NOTED. ALL LAMINATIONS SHALL BE PARALLEL TO THE BOTTOM EDGE OF THE BEAM.
4. ALL GLUE LAMINATED BEAMS SHALL DISPLAY AN A.I.T.C. QUALITY STAMP CERTIFYING COMPLIANCE WITH VOLUNTARY PRODUCT STANDARDS PS-56.
5. ALL BEAMS SHALL HAVE STANDARD CAMBER BASED ON A RADIUS OF 1600 FEET UNLESS OTHERWISE NOTED ON PLAN.



NOTE: PROVIDE ZMAX FINISH FOR EXTERIOR EXPOSURE

J — TYP. 4x BM TO BM CONNECTION

S0-02 NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	BY	DATE

LICENSED PROFESSIONAL ENGINEER — HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation.

UNIVERSITY OF HAWAII
SYSTEM OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5362
2248A & 2248B HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

TYPICAL DETAILS

SLSH & ASSOC., INC.
1916 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96822

PROJECT NO. CC-11-5362

DATE 1-30-2013

S0-02

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK. ALL DISCREPANCIES SHALL BE PROMPTLY REPORTED TO THE ENGINEER.
2. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
3. ALL WORK SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE (IBC), LATEST EDITION, AS ADOPTED BY THE STATE OF HAWAII.
4. UNLESS SPECIFICALLY DETAILED ELSEWHERE, CONTRACTOR SHALL FOLLOW TYPICAL DETAILS ON SHEETS S0-01 THROUGH S0-03.
5. WHERE CONDITIONS HAVE NOT BEEN SPECIFICALLY INDICATED BUT ARE SIMILAR TO DETAILS SHOWN ON SHEETS S0-01 THROUGH S0-03, MODIFY TYPICAL DETAILS TO MEET SPECIAL CONDITIONS.
6. STRUCTURAL DRAWINGS WHERE INDICATED HAVE BEEN DRAWN TO APPROXIMATE SCALE. UNLESS DRAWING SPECIFICALLY PROVIDES A DIMENSION, THE CONTRACTOR SHALL NOT USE OR SCALE STRUCTURAL DRAWINGS TO DETERMINE DIMENSIONS.
7. PRIOR TO ANY DEMOLITION AND DURING CONSTRUCTION, THE EXISTING STRUCTURES SHALL BE SHORED AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING FOR ALL STRUCTURAL MEMBERS AS REQUIRED FOR STRUCTURAL STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

REINFORCING STEEL

1. UNLESS OTHERWISE INDICATED ON PLANS AND/OR SCHEDULE, ALL REINFORCING STEEL SHALL BE HIGH STRENGTH GRADE DEFORMED BARS WHICH SHALL CONFORM TO THE STANDARD SPECIFICATION OF ASTM A615 GRADE 60. ALL REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60. FOR SPECIAL CHORD REINFORCEMENT ASTM 615 GRADE 75 BARS SHALL BE USED AS SPECIFIED ON PLANS.
2. LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING TO REINFORCING BARS.
3. REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED. SPLICES AT OTHER LOCATIONS SHALL BE MADE AWAY FROM POINTS OF MAXIMUM STRESS AND APPROVED BY THE ENGINEER. SEE DETAILS FOR "LAP SPLICES".
4. BARS NOTED AS "CONT." VERTICAL AND HORIZONTAL WALL REINFORCING AND COLUMN REINFORCING SHALL HAVE A MINIMUM SPLICE EQUAL TO 48 BAR DIAMETERS BUT NOT LESS THAN 24 INCHES.
5. WHERE MECHANICAL SPLICES, ARE REQUIRED, SPLICES SHALL BE ABLE TO DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR AND SHALL BE STAGGERED 3'-0" BETWEEN ADJACENT BARS.
6. PROVIDE DOWELS IN FOOTINGS THE SAME SIZE AND NUMBER AND IN THE SAME LOCATION AS VERTICAL COLUMN REINFORCING. DOWELS SHALL HAVE A MINIMUM PROJECTION EQUAL TO 48 BAR DIAMETERS BUT NOT LESS THAN 24 INCHES.
7. ALL REINFORCING STEEL, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.
8. MINIMUM CONCRETE COVER:

A.) MINIMUM COVER FOR CAST-IN-PLACE CONCRETE (NON-PRESTRESSED):
THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

	COVER (IN)
(1) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
(2) FORMED CONCRETE SURFACES EXPOSED TO EARTH OR WEATHER:	
NO. 6 THROUGH NO. 18 BARS	2"
NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER	1½"
(3) CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALL, JOISTS:	
NO. 14 AND NO. 18 BARS	1½"
NO. 11 BAR AND SMALLER	¾"
BEAMS, COLUMNS:	
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1½"

C.) CONCRETE COVER TOLERANCE SHALL BE AS FOLLOWS:

(1) FORMED SOFFITS OR MEMBERS 4" OR LESS IN THICKNESS	+⅜,-¼"
(2) MEMBERS 12" THICK OR LESS	±⅜"
(3) MEMBERS GREATER THAN 12" THICK	±½"

FOR ALL CASES, THE COVER SHALL NOT BE LESS THAN ⅓ OF WHAT IS INDICATED AND REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

D.) WHEN THE IBC REQUIRES A THICKNESS OF COVER FOR FIRE PROTECTION GREATER THAN THE MINIMUM CONCRETE STATED ABOVE, SUCH GREATER THICKNESS SHALL BE USED.

CONCRETE BLOCK MASONRY

1. ALL MASONRY WORK SHALL CONFORM TO ACI 530-05.
2. CONCRETE BLOCK SHALL BE TYPE II HOLLOW LOAD BEARING UNITS.
3. MASONRY MORTAR SHALL BE TYPE "M", WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI CONFORMING TO ASTM C270.
3. MASONRY GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI.
4. ALL CELLS SHALL BE GROUTED SOLID. GROUT IN LIFTS NOT TO EXCEED 8'-0".
5. UNLESS NOTED OTHERWISE, ALL WALLS SHALL BE CONSTRUCTED IN CONVENTIONAL RUNNING BOND.
6. AT CMU WALLS PROVIDE HORIZONTAL JOINT REINFORCING AT 16" O.C.
7. WIRE POSITIONERS – CMU WALL REINFORCING SHALL BE SECURED AGAINST DISPLACEMENT BY GALVANIZED NO. 9 GAUGE WIRE POSITIONERS SPACED AT NOT MORE THAN 200 TIMES THE BAR DIAMETER.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO ACI 318-05.
2. SLEEVES EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. PIPE MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES BUT SHALL NOT BE EMBEDDED THEREIN.
3. SECURE ALL BOLTS, ANCHORS, INSERTS, ETC. AND VERIFY ALL GROOVES, SLOTS, AND FINISHES PRIOR TO PLACING CONCRETE.
4. VERIFY LOCATIONS AND DIMENSIONS OF SLOTS, ANCHORS, DUCTS, ETC., RELATING TO MECHANICAL, ELECTRICAL AND ARCHITECTURAL WORK BEFORE POURING CONCRETE.
5. ALL CONCRETE WORK SHALL BE THOROUGHLY CONSOLIDATED DURING PLACEMENT USING A MECHANICAL VIBRATOR. BACKUP (EXTRA) VIBRATOR(S) SHALL BE PRESENT AT EACH FOR IN CASE OF FAILURE.
6. ALL CONCRETE SHALL BE CURED FOR A PERIOD OF NOT LESS THAN 7 DAYS.
7. LOCATIONS OF ALL CONSTRUCTION OR COLD JOINTS SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.
8. 48 HOURS PRIOR TO THE POURING OF ANY STRUCTURAL CONCRETE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO AN INSPECTION CAN BE MADE OF ALL FORMS AND REINFORCING STEEL.
9. THE 28-DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE AS FOLLOWS:

	STRENGTH (PSI)	MAX. AGGREGATE	W/C RATIO
BUILDING SLAB ON GRADE, EXTERIOR WALKWAY AND LANDINGS	4,500	½"	0.45
FOOTINGS AND GRADE BEAMS	4,500	½"	0.45

EPOXIED ANCHORS:

1. ADHESIVE SHALL BE AN INJECTABLE TWO-COMPONENT EPOXY SUCH AS SIMPSON SET-XP, HILTI HIT RE-500 SD OR APPROVED EQUAL.
2. INSTALLATION OF EPOXIED ANCHORS SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS.
3. THREADED ANCHOR RODS SHALL BE HOT DIP GALVANIZED AND CONFORM TO ASTM A-193, GRADE B7. THREADED ANCHOR RODS SHALL BE UNC FULLY THREADED, CLEAN, STRAIGHT AND FREE OF INDENTATIONS OR OTHER DEFECTS ALONG THEIR LENGTH.
4. HOLES SHALL BE DRILLED WITH A CARBIDE-TIPPED DRILL BIT. IF HOLES ARE CORE DRILLED WITH DIAMOND-CORE BITS, EPOXY ADHESIVE SELECTED FOR USE BY THE CONTRACTOR SHALL BE SUITABLE FOR THIS APPLICATION WITH NO REDUCTION IN PUBLISHED ALLOWABLE SHEAR AND TENSION LOADS.
5. DIAMETER OF HOLES SHALL BE EQUAL TO THREADED ROD DIAMETER +⅛".
6. ANCHORS SHALL BE INSTALLED IN CONCRETE/CMU THAT HAS REACHED ITS FULL DESIGN COMPRESSIVE STRENGTH.
7. INSTALLATION OF EPOXIED ANCHORS SHALL BE PERFORMED UNDER THE SUPERVISION OF A SPECIAL INSPECTOR IN ACCORDANCE WITH SECTIONS 1704.4 AND 1704.13 OF THE IBC. THE SPECIAL INSPECTOR MUST BE ON THE JOBSITE TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE/CMU COMPRESSIVE STRENGTH, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE.

DESIGN LOADS

1. SLOPED ROOF LIVE LOAD: 20 PSF
2. FLOOR LIVE LOADS:
   RESIDENTIAL 40 PSF
   STAIRS 100 PSF
3. WIND 105 MPH PER IBC, EXPOSURE C, Iw=1.0, Kzt = 1.6
4. SEISMIC, PER IBC, Sa=0.98, Si =0.252, Ie=1.0, SITE CLASS D
5. ALL COMPONENTS TO BUILDING SHALL BE SECURED PROPERLY TO RESIST LATERAL SEISMIC FORCES IN ACCORDANCE TO THE IBC. DESIGN OF ATTACHMENTS FOR COMPONENTS SHALL BE THE RESPONSIBILITY OF SUB-CONTRACTOR INSTALLING SUCH COMPONENT

SPECIAL INSPECTION REQUIREMENTS LIST BELOW

SPECIAL INSPECTION REQUIREMENTS:

1. THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR FOR WORK REQUIRING SPECIAL INSPECTION PER CHAPTER 17 OF THE 2006 IBC AS ADOPTED BY THE COUNTY OF MAUI.
2. SPECIAL INSPECTION FIRM SHALL HAVE AT LEAST 6 YEARS OF EXPERIENCE AND SHALL BE CERTIFIED WITHIN THE BUILDING DEPARTMENT JURISDICTION OF CONSTRUCTION (IF SUCH CERTIFICATION EXIST).
3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE SPECIAL INSPECTOR TO ENSURE THAT ALL ELEMENTS REQUIRING SPECIAL INSPECTION ARE INSPECTED.
4. SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING TYPES OF WORK:
   A. CONCRETE:
   OBSERVE THE TAKING OF TEST SPECIMENS AND THE PLACING OF CONCRETE FOR ALL ELEMENTS.
   B. REINFORCING STEEL:
   OBSERVE THE PLACEMENT OF ALL REINFORCING. THE SPECIAL INSPECTOR NEED NOT BE PRESENT CONTINUOUSLY DURING THE PLACING OF REINFORCING STEEL, PROVIDED HE HAS INSPECTED FOR CONFORMANCE WITH THE APPROVED PLANS PRIOR TO THE CLOSING OF FORMS FOR THE DELIVERY OF CONCRETE TO THE JOBSITE.
   C. ANCHOR BOLTS FOR STEEL COLUMNS AND POST
   D. EXPANSION BOLTS AND EPOXIED ANCHORS/REBAR
   E. CONTINUOUS LOAD PATH AND SHEARWALL HOLD DOWNS

CONCRETE REPAIR/REHABILITATION

PROJECT CONDITIONS:

1. DO NOT APPLY MATERIAL IF IT IS RAINING OR IF RAIN IS IMMINENT.
2. PRECAUTIONS SHOULD BE TAKEN TO AVOID DAMAGE TO ANY SURFACE NEAR THE WORK ZONE DUE TO SPILLAGE.
3. LEAVE FINISHED WORK IN NEAT, CLEAN CONDITION WITH NO EVIDENCE OF SPILL OVER ONTO ADJACENT SURFACES.

PRODUCTS:

1. ANTI-CORROSION PROTECTIVE COATING (CORROSION INHIBITOR): TWO-COMPONENT, ACRYLIC RESIN EPOXY SYSTEM FORMULATED TO INHIBIT THE CORROSION OF REINFORCING STEEL AND TO ACT AS A BONDING AGENT, SUCH AS: SIKA ARMATEC 110 EPOCEM, MASTER EMACO P124,OR APPROVED EQUAL.
2. FAST SETTING, HIGH STRENGTH PATCHING MORTAR (POLYMER MODIFIED MORTAR) FOR HORIZONTAL APPLICATIONS: ACRYLIC POLYMER-MODIFIED, PORTLAND CEMENT BASED, TROWEL-GRADE PATCHING MORTAR. CONFORM TO REQUIREMENTS OF ASTM C 884, SUCH AS SIKATOP 122 PLUS, MASTER EMACO R310 OR T430, OR APPROVED EQUAL.
3. FAST SETTING, HIGH STRENGTH PATCHING MORTAR (POLYMER MODIFIED MORTAR) FOR VERTICAL APPLICATIONS: TWO-COMPONENT (OR SINGLE COMPONENT), ACRYLIC POLYMER-MODIFIED, PORTLAND CEMENT BASED, NON-SAG PATCHING MORTAR. CONFORM TO REQUIREMENTS OF ASTM C 884, SUCH AS SIKATOP 123 PLUS, MASTER EMACO N426, OR APPROVED EQUAL.

PREPARATION -GENERAL:

1. ACI 503R, ACI 503.2, ACI 503.4 FOR EPOXY RESIN SYSTEMS. MIX THE PATCHING MATERIALS WITH OR WITHOUT FILLERS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL APPLICATIONS OF THE MIXED MATERIALS SHALL BE PERFORMED WITHIN THE WORKING LIFE OR POT LIFE OF THE PATCHING SYSTEM. UNUSED MIXED MATERIALS WHICH HAVE REACHED THE END OF THE WORKING OR POT LIFE SHALL BE REMOVED FROM THE JOB SITE. AT THE CONTRACTOR'S EXPENSE. FIELD MIXING AND SIZE OF BATCH SHALL BE DETERMINED BY THE CONTRACTOR. PATCHING SYSTEMS SHALL BE PROVIDED AS INDICATED AND REQUIRED BY SPECIFICATIONS.
2. CLEANING: PREPARE ALL SURFACES REQUIRING PATCHING SO THAT THEY WILL BE STRUCTURALLY SOUND, CLEAN, AND FREE OF DIRT, LOOSE CONCRETE, LOOSE MORTAR PARTICLES, PAINT, FILMS, PROTECTIVE COATINGS, EFFLORESCENCE, LAITANCE, AND OTHER MATTER DETRIMENTAL TO PROPER ADHESION.
3. CHECK AREAS AROUND CRACKS, BUSTERS, OLD PATCHES, AND RUST SPOTS BY TAPPING SURFACE WITH A HAMMER, OTHER BLUNT INSTRUMENT, OR USING A CHAIN. SOUND FOR LOOSE OR HOLLOW AREAS AND MARK AREAS FOR REMOVAL OF UNSOUND CONCRETE OR MORTAR.
4. ALL AREAS WHERE CRACKS EXIST AND THE CONCRETE IS NOT IN A STATE OF CONCRETE DELAMINATION AS DETERMINED BY SOUNDING WITH A HAMMER OR CHAIN SHALL BE CLEANED OF ALL DIRT, LOOSE MORTAR PARTICLES, PAINT, FILMS, LAITANCE AND ALL OTHER MORTAR DETRIMENTAL TO PROPER ADHESION.
5. REMOVE UNSOUND MATERIALS AND FILMS BY MEANS OF CHIPPING, SAW CUTTING, BUSH HAMMERING, NEEDLE GUNNING, SAND BLASTING, OR OTHER SUITABLE METHOD.
6. WASH DEBRIS FROM WORK SURFACES WITH CLEAN WATER. REMOVE ANY REMAINING EFFLORESCENCE BY ACID WASH, MURIATIC OR SIMILAR, AND RINSE WITH CLEAN WATER.

PREPARATION - REINFORCEMENT:

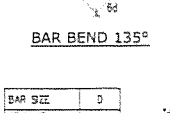
1. MECHANICALLY REMOVE ALL RUST AND LOOSE MATERIAL FROM ALL EXPOSED RUSTED REINFORCING STEEL TO SOUND METAL BY POWER BRUSHING, NEEDLE SCALER, OR SAND BLASTING.
2. APPLY ANTI-CORROSION PROTECTIVE COATING ACCORDING TO MANUFACTURER'S PRINTED INSTRUCTIONS TO ALL EXPOSED AND CLEANED REINFORCEMENT BARS AND CONCRETE SURFACES TO RECEIVE PATCH.
3. USING BRUSH OR ROLLER, SCRUB PRIMER BONDING AGENT ONTO WORK SURFACES WHILE ALSO COMPLETELY COATING EXPOSED REINFORCING STEEL AND CONCRETE.
4. DO NOT RESURFACE OVER HARDENED PRIMER BONDING AGENT. IF PRIMER BONDING AGENT BECOMES TACK FREE, MECHANICALLY ROUGHEN SURFACE AND REPRIME.

SPALL REPAIR (INCLUDES CRACKED/CLOSED SPALL CORNER OF PEDESTAL):

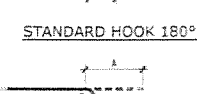
1. SAW CUT OR ROUT OUT SPALLS TO A MINIMUM WIDTH AND DEPTH OF 1/2 INCH.
2. REFER TO GENERAL PREPARATION INSTRUCTIONS ABOVE.
3. IF REINFORCING BAR IS EXPOSED, REFER TO REINFORCING PREPARATION INSTRUCTIONS ABOVE.
4. MECHANICALLY SCARIFY WORK SURFACES TO OBTAIN AGGREGATE FRACTURE WITHIN A MINIMUM SURFACE PROFILE OF PLUS OR MINUS 1/8 INCH.
5. APPLY PRIMER BONDING AGENT PER ABOVE INSTRUCTIONS AND MANUFACTURER'S PRINTED INSTRUCTIONS.
6. WHILE PRIMER BONDING AGENT IS STILL TACKY, MIX AND APPLY PREPARED PATCHING MORTAR TO PREPARED SPALL FOLLOWING MANUFACTURER'S PRINTED INSTRUCTIONS.
7. PLACE PATCHING MATERIAL IN THIN LAYERS AS RECOMMENDED BY THE MANUFACTURER. EACH INTERMEDIATE LAYER SHALL BE CROSS-SCRATCHED FOR MECHANICAL BONDING. ALL LAYERS FOR EACH PATCH SHALL BE PLACED ON THE SAME DAY. USE HAND TEMPERS TO CONSOLIDATE THE PATCHING MATERIAL. LEVEL EACH LAYER AND SCREED THE FINAL SURFACE. REMOVE EXCESS PATCHING MATERIAL ON ADJACENT SURFACES BEFORE IT HARDENS. DO NOT FEATHER OUT ONTO ADJACENT SURFACES. UPON COMPLETION OF FINISHING OPERATIONS, APPLY EVAPORATION REDUCER AND THEN APPLY CURING COMPOUND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROTECT PATCHES WITH WATERTIGHT FORMS AND/OR COVERS UNTIL THE PATCHES ARE PROPERLY CURED.
8. USE PROPER PATCHING MATERIAL DEPENDING ON IF THE LOCATION OF THE SPALL IS HORIZONTAL, VERTICAL, OR OVERHEAD.
9. MINIMUM DEPTH OF SPALL PATCH OVER REINFORCING SHALL BE 1 INCH.
10. DO NOT FEATHER EDGES OF SPALL PATCH. SAW CUT OR ROUT EDGE OF REPAIR TO OBTAIN A 1/2 INCH MINIMUM VERTICAL EDGE TO REPAIRED AREA.
11. FINISHED PATCHED SPALL SHOULD MATCH EXISTING SURFACES IN TEXTURE AND APPEARANCE.
12. AT EXPOSED AREAS, GRIND THE REPAIRED PATCH FLUSH WITH SURROUNDING SURFACES; PATCH TEXTURE TO MATCH EXISTING.

ABBREVIATIONS

A.B.	ANCHOR BOLT	HSB	HIGH STRENGHT BOLT
ARCH.	ARCHITECTURAL OR ARCHITECT	INT.	INTERIOR
@	AT	JT.	JOINT
BAL.	BALANCE	KSF	KIPS PER SQUARE FOOT
BOT.	BOTTOM	LONG.	LONGITUDINAL
BM.	BEAM	MAX.	MAXIMUM
B.T.B.	BASALTIC TERMITE BARRIER	M.B.	MACHINE BOLT
C.I.P.	CAST IN PLACE	MECH.	MECHANICAL
C.J.	CONSTRUCTION OR CONTROL JOINT	MIN.	MINIMUM
C.J.P.	COMPLETE JOINT PENETRATION WELD	N.T.S.	NOT TO SCALE
CL	CENTER LINE	NO.	NUMBER
CLR.	CLEAR	O.C.	ON CENTER
CMU	CONCRETE MASONRY UNIT	OPP.	OPPOSITE
COL.	COLUMN	PL.	PLATE
CONC.	CONCRETE	PSI.	POUNDS PER SQUARE INCH
CONT.	CONTINUOUS	PSF	POUNDS PER SQUARE FOOT
CONN.	CONNECTION	R.F. OR	REINFORCED OR
Db	REBAR DIAMETER	REINF.	REINFORCEMENT
DIA. OR ø	DIAMETER	REQ'D	REQUIRED
DIAG.	DIAGONAL	SHT.	SHEET
DIMS.	DIMENSIONS	SP.	SPACE OR SPACES
DET.	DETAIL	SIM.	SIMILAR
EA.	EACH	SQ.	SQUARE
E.J.	EXPANSION JOINT	STD.	STANDARD
E.F.	EACH FACE	T & B	TOP AND BOTTOM
EL.	ELEVATOR	THK.	THICK
ELEV.	ELEVATION	T.O.C.	TOP OF CONCRETE
EQ.	EQUAL	T.O.F.	TOP OF FOOTING
EXP.	EXPANSION	T.O.S.	TOP OF SLAB
EXT.	EXTERIOR	T.O.W.	TOP OF WALL
E.W.	EACH WAY	TRANS.	TRANSVERSE
F.P.	FULL PENETRATION	TYP.	TYPICAL
FT.	FOOT OR FEET	VERT.	VERTICAL
FTG.	FOOTING	W/	WITH
GA.	GAGE	W/O	WITH OUT
GALV.	GALVANIZE	W.J.	WALL JOINT
HDG OR H.D.G.	HOT DIPPED GALVANIZED	W.W.F.	WELDED WIRE FABRIC
HORIZ.	HORIZONTAL	W.W.M.	WELDED WIRE MESH

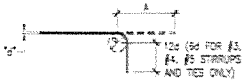


BAR BEND 135°



STANDARD HOOK 180°

BAR SIZE	D
#3,#4,#5	6d
#6,#7,#8	8d
#9,#10,#11	8d
#14,#18	10d



BAR BEND 90°

MINIMUM EXTENSION LENGTHS "A"

BAR SIZE	STANDARD HOOKS		TIES AND STIRRUPS	
	180° HOOKS	90° HOOKS	90° HOOKS	135° HOOKS
#3	5"	7"	5"	5"
#4	8"	9"	6"	7"
#5	9"	11"	7"	9"
#6	11"	13"	14"	12"
#7	12"	15"	15"	14"
#8	14"	17"	19"	16"

A / S0-00 TYPICAL REBAR BENDING
NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE

LICENSED PROFESSIONAL ENGINEER No. 7158-S HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of the License: 4/30/10

UNIVERSITY OF HAWAII
STATE OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5302
2248A & 2248B HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

GENERAL NOTES AND TYPICAL DETAILS

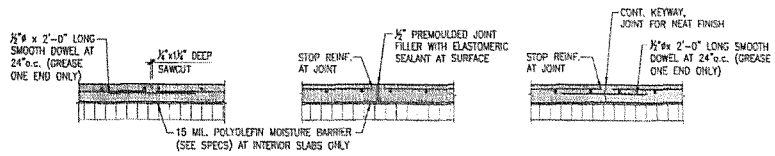
SLSH & ASSOC., INC.
1918 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96822

PROJECT NO. CC-11-5302

DRAWN BY BKN | CHECKED BY HL | DATE 9-30-2010 | DRAWN BY MM | APPROVED BY HL

SHEET S0-00

SHT. 48 of 163 SHEETS

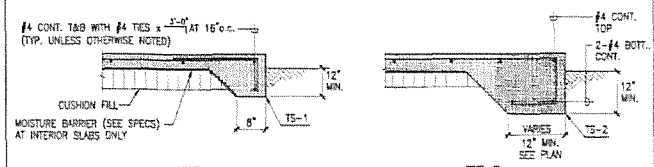


TYP. CONTROL JOINT (C.J.) TYP. EXPANSION JOINT (E.J) TYP. CONSTRUCTION JOINT

SAWCUT SHALL BE PERFORMED WITHIN 8 HOURS OF POUR AND AS SOON AS SLAB HAS SET AND IS FIRM ENOUGH SUCH THAT SAWCUT BLADE DOES NOT RIP, TEAR, OR DAMAGE SLAB OR UNRAVEL EDGES

A / S0-01 TYPICAL SLAB JOINT DETAILS

NOT TO SCALE

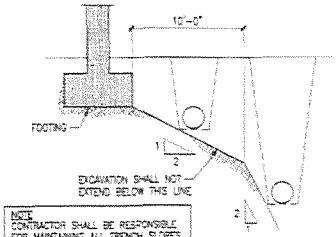


TS-1 TS-2

1. THIS DETAIL IS INTENDED TO SHOW DIMENSION OF THICKENED EDGE SLAB ONLY.
2. ALL SIDEWALK EDGES SHALL HAVE TS-1.

B / S0-01 THICKENED SLAB DETAIL (TS-1 and TS-2)

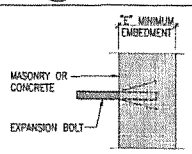
NOT TO SCALE



NOTE
CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TRENCH SLOPES BY SHORING AS REQUIRED.

C / S0-01 TRENCH DETAIL

NOT TO SCALE

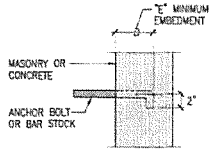


NOTES:
1. GROUT ALL CELLS WITH BOLTS FULL HEIGHT.
2. ALL EXPANSION BOLTS SHALL BE HILTI KWIK BOLT II, HOT DIP GALV. ANCHORS OR EQUAL, HAVING THE FOLLOWING MINIMUM LOAD VALUES.
3. I.C.C. REPORT SHALL BE SUBMITTED FOR REVIEW

BOLT SIZE	MINIMUM "E"	MINIMUM ALLOW. SHEAR IN CONC. (#)	MINIMUM ALLOW. SHEAR IN MASONRY (#)
½" DIA.	4"	1550	550
⅝" DIA.	4"	1800	650
¾" DIA.	5"	2100	800
⅞" DIA.	6"	2500	1000
1" DIA.	7"		

D / S0-01 EXPANSION BOLT

NOT TO SCALE

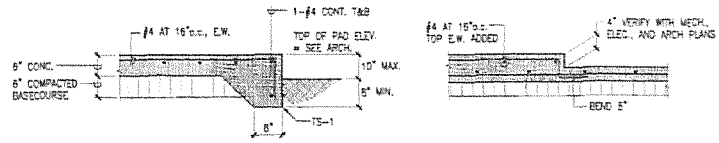


NOTES:
1. GROUT ALL CELLS WITH BOLTS FULL HEIGHT.
2. UNLESS NOTED OTHERWISE, THESE ANCHOR BOLT DETAILS SHALL APPLY
3. ALL ANCHOR BOLTS SHALL BE HOT DIPPED GALVANIZED.

BOLT SIZE	MINIMUM "E"
½" DIA.	6"
⅝" DIA.	8"
¾" DIA.	12"
⅞" DIA.	12"

E / S0-01 ANCHOR BOLT

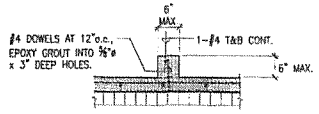
NOT TO SCALE



AT EXTERIOR CONDITION INTERIOR SLAB-ON-GRADE CONDITION

F / S0-01 TYPICAL RAISED PAD AT SLAB-ON-GRADE CONDITION

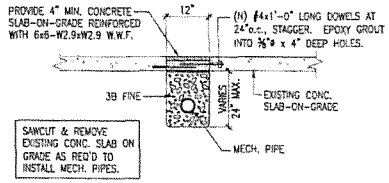
NOT TO SCALE



PLAN

G / S0-01 TYP. CURB AT BASE OF STUD WALL

NOT TO SCALE

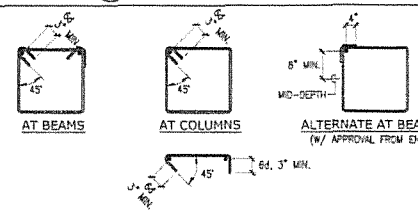


SAWCUT & REMOVE EXISTING CONC. SLAB ON GRADE AS REQ'D TO INSTALL MECH. PIPES.

REPAIR OF CONC. SLAB-ON-GRADE FOR MECH. PIPE INSTALLATION

H / S0-01 SLAB ON GRADE REPAIR DETAIL

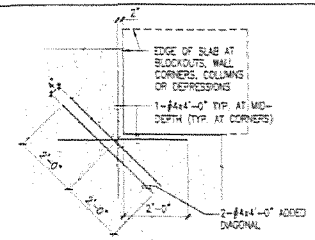
NOT TO SCALE



NOTES:
1. THESE DETAILS SHALL APPLY TO #3, #4, AND #5 BARS - GRADE 40 AND GRADE 60.
2. ALL BARS SHALL BE BENT COLD.
3. MINIMUM FINISHED BEND DIAMETER = 4d FOR #3, 4, AND #15 BARS.

J / S0-01 TYPICAL STIRRUP AND TIE DETAIL

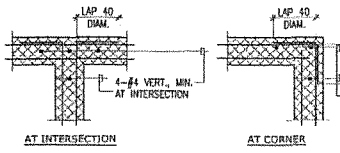
NOT TO SCALE



PLAN

K / S0-01 TYP. S.O.G. RE-ENTRANT CORNER/ BLOCKOUT DETAIL

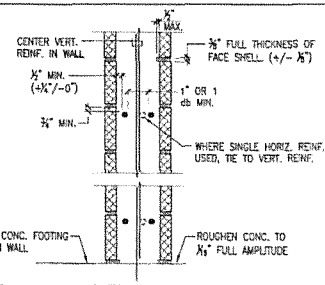
NOT TO SCALE



TWO LAYERS OF REINF.

L / S0-01 TYP. CMU WALL BOND BEAM REINFORCING

NOT TO SCALE



M / S0-01 TYPICAL CMU DETAIL

NOT TO SCALE

LAP SPLICE BAR OFFSET

BAR SIZE	f'c = 3000 PSI		f'c = 4000 PSI	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	24"	24"	24"	24"
#4	29"	24"	25"	24"
#5	38"	28"	31"	24"
#6	43"	33"	37"	29"
#7	63"	48"	54"	42"
#8	72"	55"	62"	48"
#9	81"	62"	70"	54"

NOTES
1. LAP SPLICE LENGTHS ARE FOR CLASS A LAP SPLICES ONLY.
2. LAP SPLICE LENGTHS ARE FOR GRADE 60 DEFORMED BARS.
3. LAP SPLICE LENGTHS SHALL BE IN ACCORDANCE WITH THIS TABLE, UNLESS OTHERWISE SHOWN OR NOTED.
4. FOR CLASS B LAP SPLICE, INCREASE LENGTHS SHOWN IN TABLE BY A FACTOR OF 1.3.
5. BOTTOM BARS AND INTERMEDIATE BARS WITH ≤ 12" OF CONC. BELOW, PROVIDE "OTHER BAR" LAP SPLICE.
6. TOP BARS AND INTERMEDIATE BARS WITH > 12" OF CONC. BELOW, PROVIDE "TOP BAR" LAP SPLICE.

N / S0-01 TYPICAL LAP SPLICE DETAIL

NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	DWN BY	DATE

BEVERLY ISHII-NAKAYAMA LICENSED PROFESSIONAL ENGINEER No. 7139-S HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my supervision. (Expiration Date of the License 4/30/13)

UNIVERSITY OF HAWAII
STATE OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
LBH PROJECT NUMBER CC-11-5362
2240A & 2240B HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

TYPICAL DETAILS

SLSH & ASSOC., INC.
1916 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96826

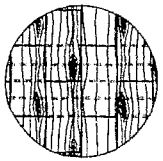
PROJECT NO. CC-11-5362

SHEET S0-01

DESIGNED BY SNN
DRAWN BY MM
CHECKED BY KL
APPROVED BY KL
DATE 3-30-2012

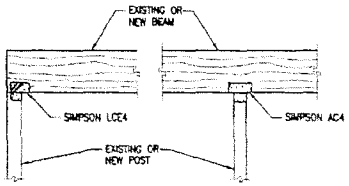
SHT. 47 of 103 SHEETS

Tue, 24 May 2011 - 5:10pm
C:\2011\11-012\A - 1442 Rev 02 MAUI\S0-01 Typical Detailing

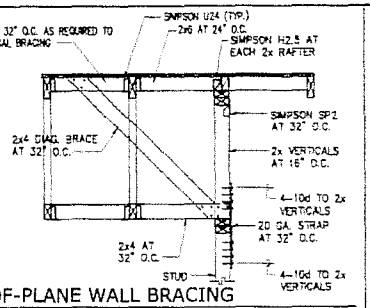


NOTE
1. LAY ALL PLYWOOD WITH FACE GRAIN ACROSS SUPPORTS.
2. STAGGER ALL PANELS.
3. UNLESS NOTED OTHERWISE, FOR SPECIAL SHEARWALL OR DIAPHRAGM LOCATIONS PROVIDE THE FOLLOWING MINIMUM NAILING:
   A. 1/2" PLYWOOD – 8d AT 6" O.C. ALL FRAMING.
   B. 5/8" PLYWOOD – 10d AT 6" O.C. ALL FRAMING.
   C. 3/4" PLYWOOD – 10d AT 6" O.C. ALL FRAMING.
4. PROVIDE SOLID BLOCKING AT ALL RIDGE, VALLEYS AND HIPS.

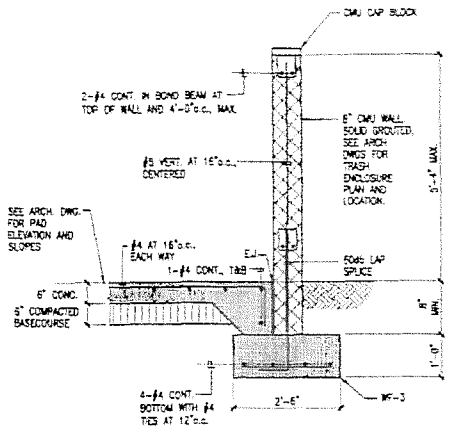
A — TYP. PLYWOOD LAYOUT
SO-02 NOT TO SCALE



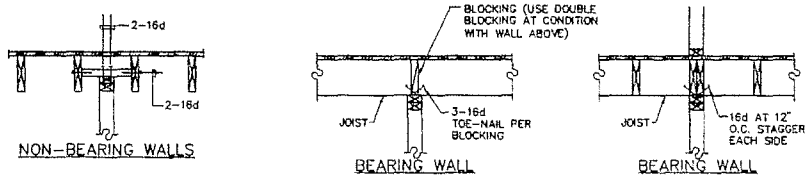
B — TYP. BEAM TO POST CONNECTION
SO-02 NOT TO SCALE



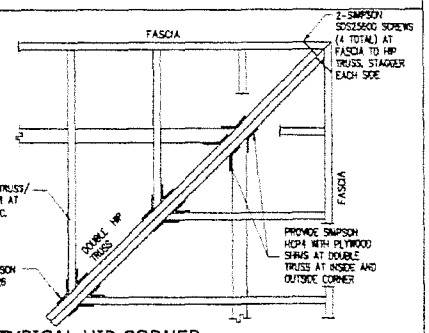
C — OUT-OF-PLANE WALL BRACING
SO-02 NOT TO SCALE



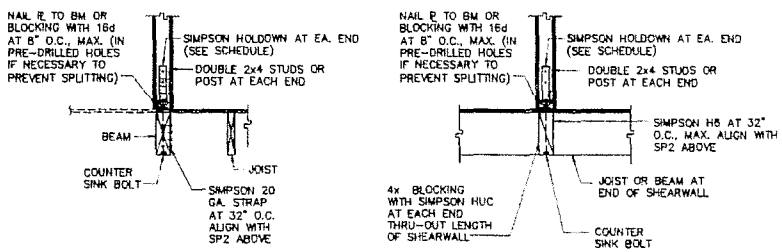
F — SECTION AT TRASH ENCLOSURE
SO-02 SCALE: 3/4" = 1'-0"



D — TYP. STUDWALL (NON-SHEARWALL) TO FLOOR CONNECTION
SO-02 NOT TO SCALE

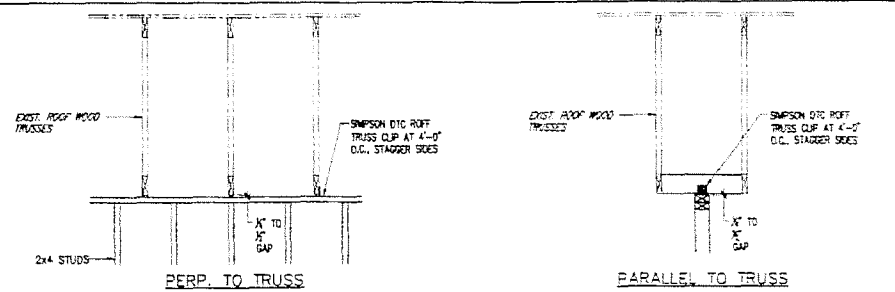


E — TYPICAL HIP CORNER
SO-02 NOT TO SCALE



FOR SHEARWALLS ON 2nd FLR WHICH DOES NOT CONTINUE TO 1st FLOOR

G — DETAIL OF SHEARWALL END POST/DBL STD & NAILING REQ'D AT 2ND FLOOR
SO-02 NOT TO SCALE



H — TYP. NON-BEARING STUDWALL TO ROOF CONNECTION
SO-02 NOT TO SCALE

WOOD:

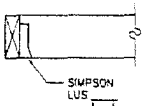
1. ALL WOOD STRUCTURAL MEMBERS SHALL BE DOUGLAS FIR AND SHALL MEET THE FOLLOWING MINIMUM GRADES AS ESTABLISHED BY THE WEST COAST LUMBER INSPECTION BUREAU:
   BEAMS . . . . . NO. 1
   JOISTS/RAFTERS/TRUSS . . . . . NO. 1
   POSTS AND STUDS . . . . . NO. 1
   BLOCKING, PLATES, LEDGERS ETC. . . . . NO. 2
2. PROVIDE 30# FELT BELOW ALL PLATES RESTING ON CONCRETE OR MASONRY.
3. PROVIDE STANDARD WASHERS AT ALL BOLTS AND NUTS BEARING ON WOOD.
4. HOLES THRU PLATES AND STUDS SHALL BE CENTERED IN THE MEMBER AND SHALL NOT EXCEED 1/3 THE PLATE WIDTH.
5. MINIMUM NAILING SHALL COMPLY WITH TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE.
6. ALL PREFABRICATED METAL HANGERS AND CONNECTORS NOTED IN THE DRAWINGS SHALL BE "SIMPSON STRONG-TIE" CONNECTORS, WITH Z-MAX COATING, OR APPROVED EQUALS.
7. ALL WOOD STRUCTURAL MEMBERS SHALL BE TREATED AGAINST ROT AND INSECT DAMAGE. SEE SPECIFICATIONS
8. PROVIDE 2X CONTINUOUS STRUCTURAL FASCIA AT ALL EAVES. FASCIA SUPPORTS HIPS AND LAST RAFTER ON GABLED ROOFS. DO NOT SPLICE FASCIA WITHIN 12'-0" OF CORNERS.

WOOD (CONTINUED):

9. PLYWOOD SHEATHING SHALL BE STRUCTURAL I CONFORMING TO U.S. COMMERCIAL STANDARD PS 1-74. EXCEPT AS NOTED OTHERWISE FOR SPECIAL SHEAR WALL AND DIAPHRAGM CONDITIONS, PROVIDE THE FOLLOWING MINIMUM ATTACHMENT AT ALL SUPPORTED EDGES.
   ½" PLYWOOD. . . . . 8d AT 6" o.c.
   ⅝" PLYWOOD. . . . . 10d AT 6" o.c.
   ¾" PLYWOOD. . . . . 10d AT 6" o.c.
10. ALL PREFABRICATED METAL CONNECTORS SHALL BE BY SIMPSON STRONG-TIE COMPANY.
11. ALL METAL CONNECTORS AND ANCHOR BOLTS SHALL BE HOT-DIPPED GALVANIZED.

GLU-LAM BEAMS:

1. ALL GLUE LAMINATED BEAMS SHALL BE DOUGLAS FIR, 2,400 F SERIES, WITH EXTERIOR TYPE ADHESIVE.
2. ALL BEAMS SHALL BE INDUSTRIAL GRADE, UNLESS NOTED OTHERWISE.
3. ALL LAMINATIONS FOR "GLU-LAM" BEAMS SHALL BE 1-1/2" THICK AND OF WIDTH SHOWN OR NOTED. ALL LAMINATIONS SHALL BE PARALLEL TO THE BOTTOM EDGE OF THE BEAM.
4. ALL GLUE LAMINATED BEAMS SHALL DISPLAY AN A.I.T.C. QUALITY STAMP CERTIFYING COMPLIANCE WITH VOLUNTARY PRODUCT STANDARDS PS-56.
5. ALL BEAMS SHALL HAVE STANDARD CAMBER BASED ON A RADIUS OF 1600 FEET UNLESS OTHERWISE NOTED ON PLAN.



NOTE: PROVIDE ZMAX FINISH FOR EXTERIOR EXPOSURE

J — TYP. 4x BM TO BM CONNECTION
SO-02 NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	BY/CK	DATE

UNIVERSITY OF HAWAII
STATE OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5362
224BA & 224BB HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

TYPICAL DETAILS

LICENSED PROFESSIONAL ENGINEER — BEVERLY ANN HIRAYASU — No. 7138-E — HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration date of the license 4/30/15

SLSH & ASSOC., INC.
1314 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96814

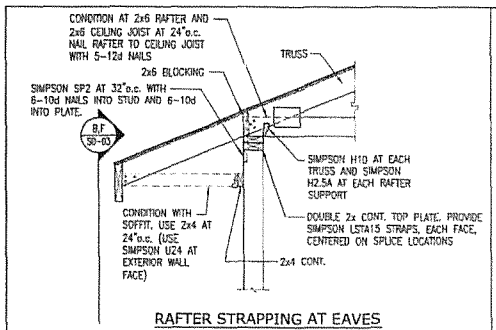
PROJECT NO. CC-11-5362

DATE 9-30-2013

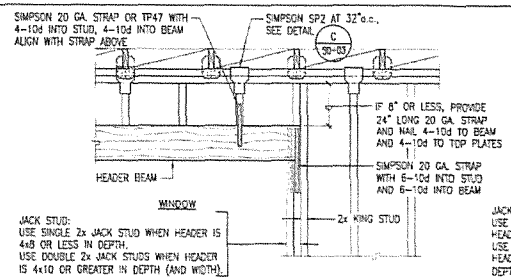
SO-02

DRAWN BY BRK | CHECKED BY HL | APPROVED BY HL

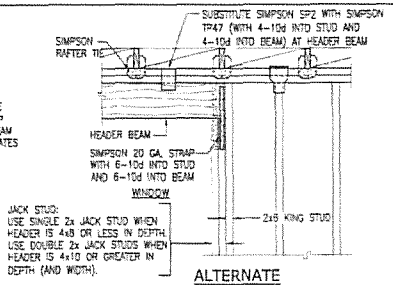
SHT. 48 of 165 SHEETS



RAFTER STRAPPING AT EAVES

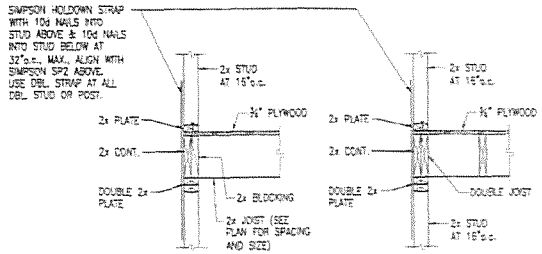


CONDITION WITH HEADER BEAM BELOW TOP PLATES



ALTERNATE
CONDITION WITH HEADER BEAM DIRECTLY BELOW TOP PLATES

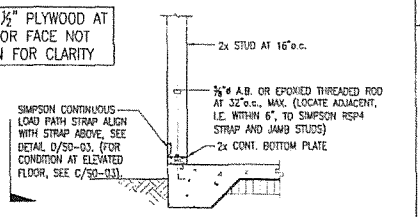
B 50-03 DETAIL OF HEADER BENEATH ROOF
SCALE: 3/4" = 1'-0"



PERPENDICULAR TO JOIST PARALLEL TO JOIST

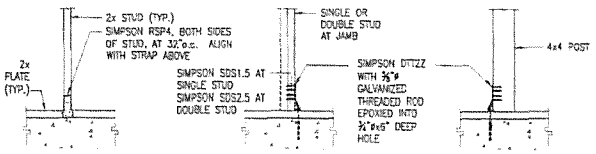
C 50-03 TYP. SECTION AT EXTERIOR WALL
NOT TO SCALE

NOTE: 1/2" PLYWOOD AT EXTERIOR FACE NOT SHOWN FOR CLARITY



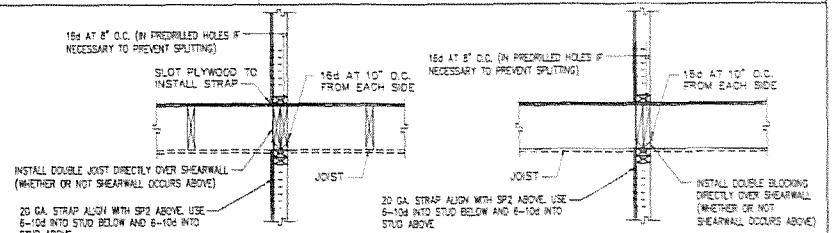
STRAPPING AT FOUNDATION

A 50-03 SECTION OF EXTERIOR (AND INTERIOR) WALLS SUPPORTING TRUSSES OR RAFTERS
NOT TO SCALE



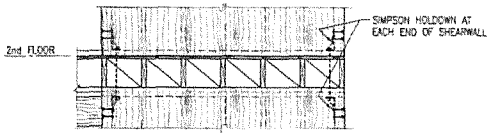
AT SINGLE STUD (AWAY FROM JAMB) AT JAMB AT 4x POST

D 50-03 DETAIL OF SILL PLATE STRAPPING
SCALE: 3/4" = 1'-0"

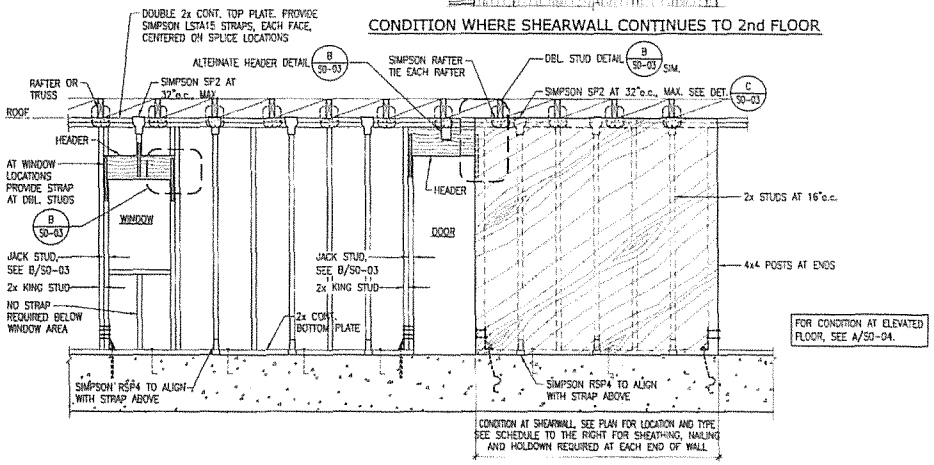


CONDITION WITH SHEARWALL PARALLEL TO FLOOR JOIST
CONDITION WITH SHEARWALL PERPENDICULAR TO FLOOR JOIST

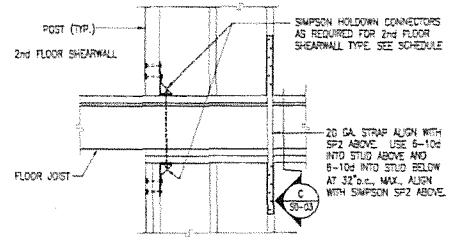
E 50-03 DETAIL OF PLATE NAILING REQUIREMENT AT 2nd FLOOR OF TWO STORY INTERIOR SHEARWALL
SCALE: 3/4" = 1'-0"



CONDITION WHERE SHEARWALL CONTINUES TO 2nd FLOOR

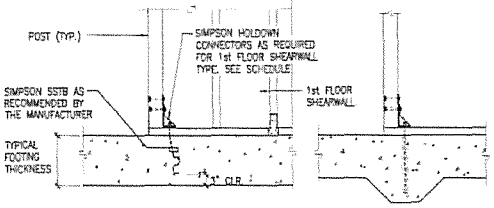


F 50-03 ELEVATION OF EXTERIOR AND INTERIOR WALLS SUPPORTING TRUSSES OR RAFTERS
NOT TO SCALE



CONDITION AT UPPER LEVEL WHERE 2nd FLOOR SHEARWALL ALIGNS WITH 1st FLOOR SHEARWALL

ANCHOR BOLT SCHEDULE FOR HOLDOWN		
TYPE OF HOLDOWN	ANCHOR BOLT	ALTERNATE DRILLED AND EPOXIED ANCHOR BOLTS USING SIMPSON SET SYSTEM
SIMPSON HDU2-SDS2.5	SSTB14	5/8"ø THREADED ROD WITH 10" MIN. EMBEDMENT
SIMPSON HDU4-SDS2.5	SSTB16	5/8"ø THREADED ROD WITH 10" MIN. EMBEDMENT
SIMPSON HDU8-SDS2.5	SB7"x24	N/A



CONDITION AT GROUND FLOOR COND. AT ALTERNATE DRILLED AND EPOXIED A.B.

G 50-03 HOLDOWN DETAIL
NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE

UNIVERSITY OF HAWAII
STATE OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5362
224BA & 224BB HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

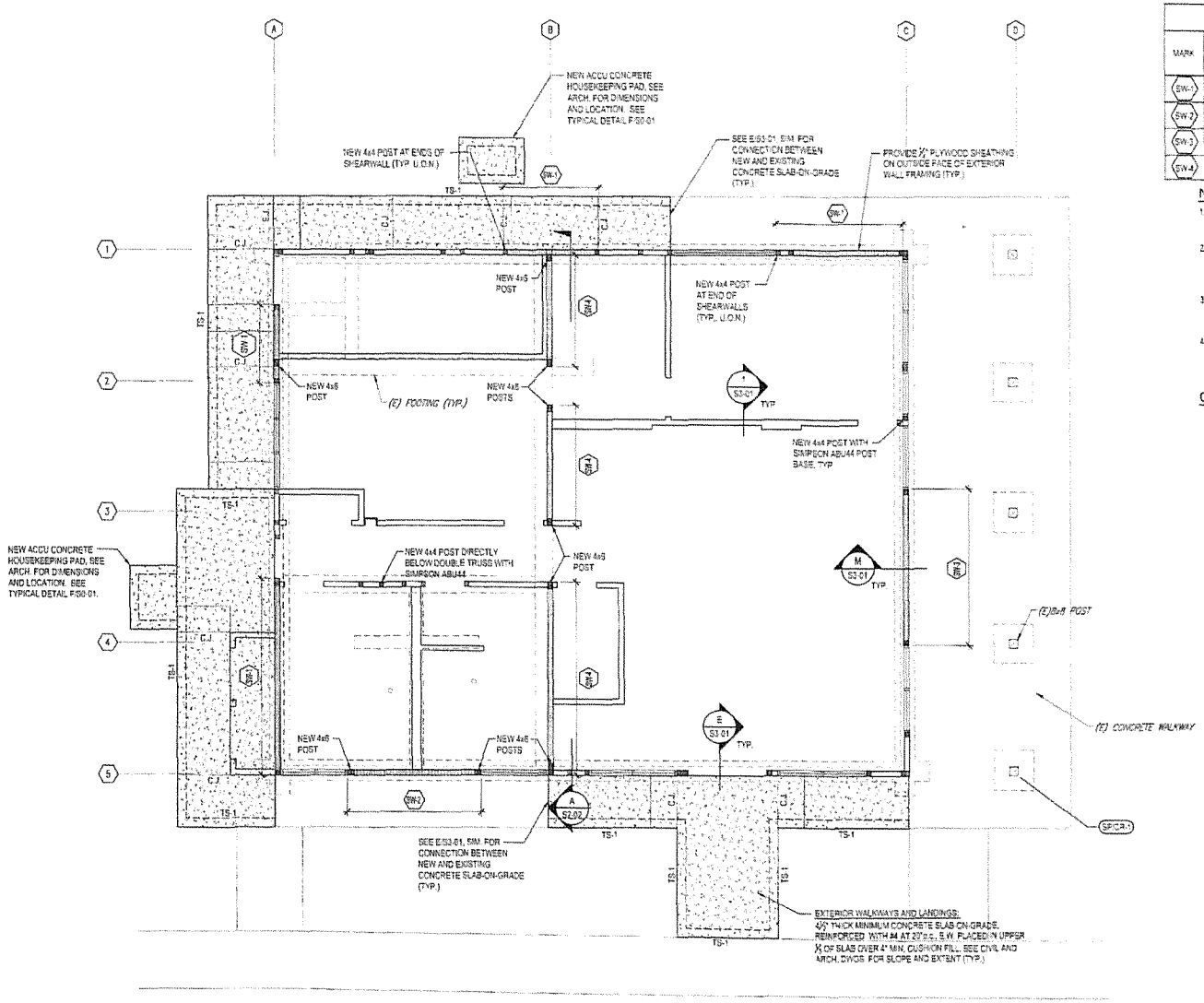
TYPICAL DETAILS

BEVERLY ISHII-NAKAYAMA LICENSED PROFESSIONAL ENGINEER No. 7130-S HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of the License 4/30/2012

SLSH & ASSOC., INC.
1916 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96822

PROJECT NO. CC-11-5362
SHEET SO-03
DESIGNED BY BSN
CHECKED BY HL
DATE 9-30-2011
DRAWN BY MM
APPROVED BY HL
SH. 49 of 102 SHEETS



REGISTRATION LOBBY - FOUNDATION PLAN

SCALE 1/4" = 1'-0"

NEW SHEARWALL SCHEDULE

MARK	WALL SHEATHING	FASTENERS (NOTE 2)	2x BOTTOM PLATE CONNECTION TO CONCRETE (NOTE 4)	HOLD DOWN
SW-1	½" MIN. STRUCTURAL I PLYWOOD, ONE FACE	8d COMMON NAILS AT 6/12	½" EPOXIED GALV. THREADED ROD AT 32" o.c.	SIMPSON LTT19
SW-2	½" MIN. STRUCTURAL I PLYWOOD, ONE FACE	8d COMMON NAILS AT 6/12	½" EPOXIED GALV. THREADED ROD AT 32" o.c.	SIMPSON HDU4-SDS2.5
SW-3	½" MIN. STRUCTURAL I PLYWOOD, ONE FACE	8d COMMON NAILS AT 4/12	½" EPOXIED GALV. THREADED ROD AT 16" o.c.	SIMPSON HDU4-SDS2.5
SW-4	½" GYPBOARD, BLOCKED, BOTH FACES	6d COOLER NAILS AT 4/12	½" EPOXIED GALV. THREADED ROD AT 32" o.c.	SIMPSON HDU2-SDS2.5

NOTES/LEGEND:

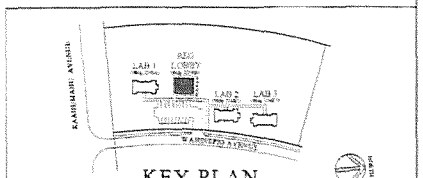
1. SW-1
   - TYPE
2. 4 / 12 DESIGNATES NAIL SPACING
   - INDICATES NAILS AT 12" o.c. AT INTERIOR OF PANELS.
   - INDICATES NAILS AT 4" o.c. ALONG PANEL EDGES.
3. PLYWOOD SHALL BE 15/32" STRUCTURAL I SHEATHING (4-PLY). PLYWOOD SHEATHING FASTENERS SHALL BE AS NOTED IN SCHEDULE. ALL PANEL EDGES MUST BE FULLY BLOCKED UNLESS OTHERWISE NOTED IN SCHEDULE. NON-STRUCTURAL GYPSUM BOARD APPLIED TO OPPOSITE FACE MUST BE FULLY BLOCKED.
4. SEE EPOXIED ANCHOR NOTES ON SHEET S0-00.

CONCRETE REPAIR NOTES:

1. SEE CONCRETE REHABILITATION NOTES ON SHEET S0.00 FOR SPALL/CRACK REPAIR AND SPECIFICATION SECTION 03100 - CONCRETE REPAIR.
2. SPCR-1 REPAIR CLOSED SPALL/CRACKED CORNER OF CONCRETE PEDESTAL. QUANTITY = 1 S.F.

GRAPHIC SCALE

1/4"=1'-0" 4' 2' 0' 2' 4'



KEY PLAN

REVISION NO.	SYM.	DESCRIPTION	DWN BY	DATE

LICENSED PROFESSIONAL ENGINEER No. 7139-S HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration date of the License is 4/30/15

UNIVERSITY OF HAWAII
STATE OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5362
224BA & 224BB HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

REGISTRATION LOBBY
FOUNDATION PLAN

SLSH & ASSOC., INC
1314 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96826

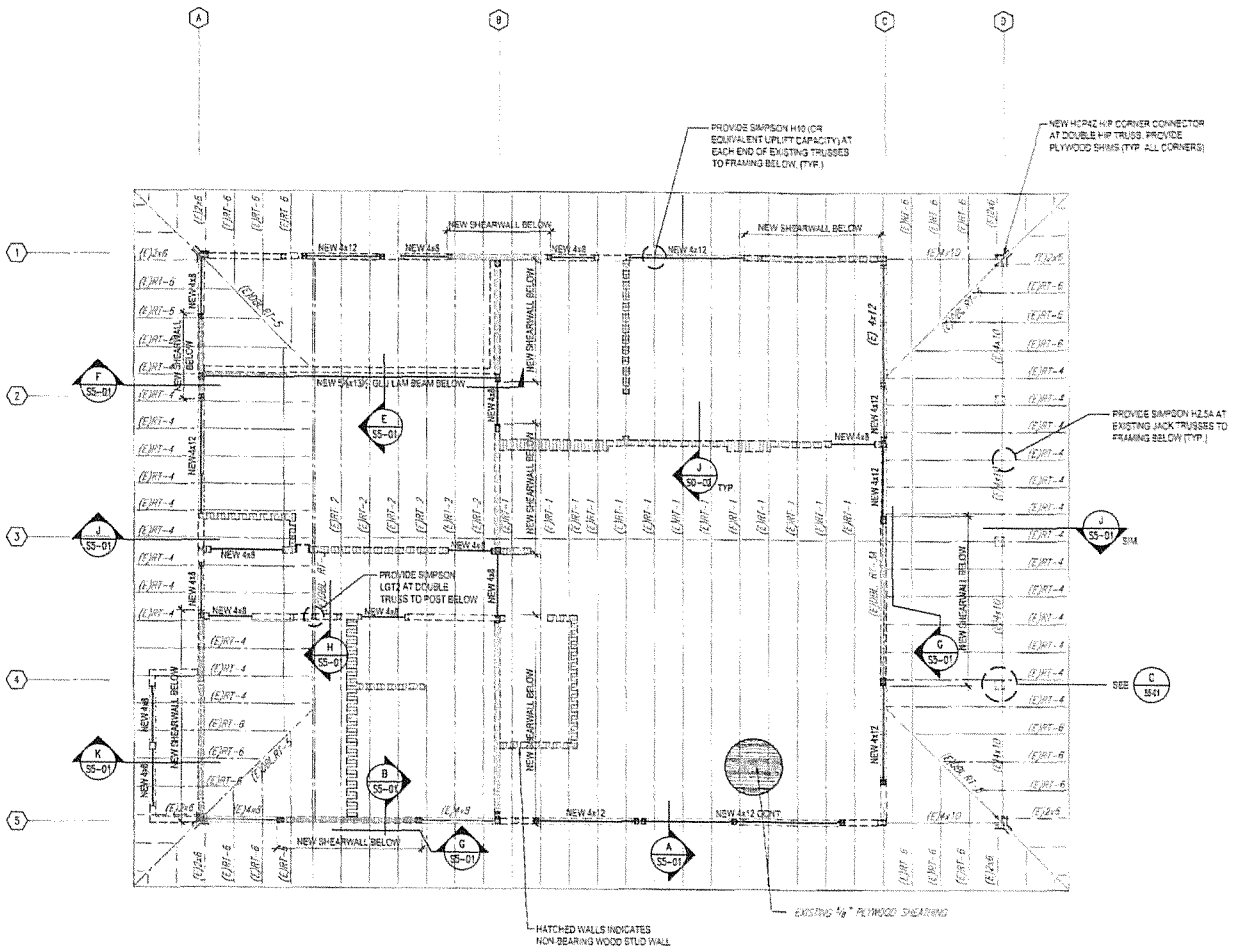
PROJECT NO. CC-11-5362

DATE 9-30-2013

DESIGNED BY BKN | DRAWN BY KN | CHECKED BY YL | APPROVED BY YL

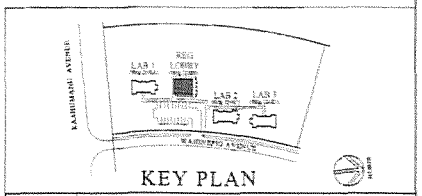
SHEET S1-01

SHT. 51 of 103 SHEETS



REGISTRATION LOBBY - ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"



KEY PLAN

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE

LICENSED PROFESSIONAL ENGINEER No. 7158-3 HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation.

Expiration Date of the License: 4/30/16

UNIVERSITY OF HAWAII
STATE OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5362
224BA & 224BB HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

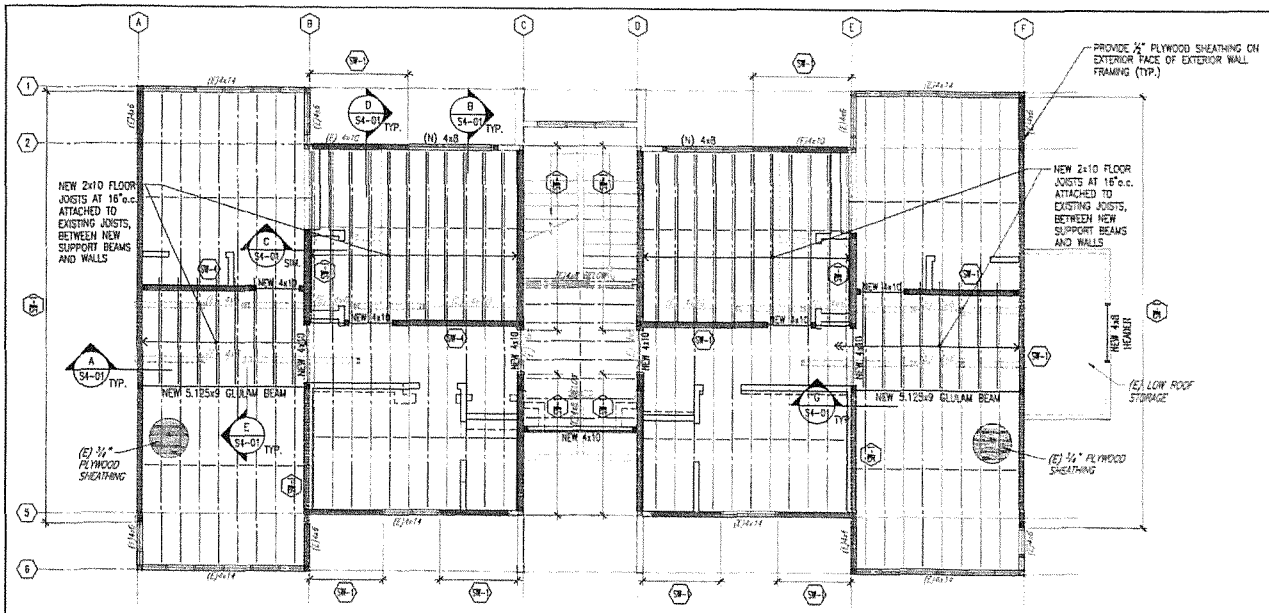
REGISTRATION LOBBY
ROOF FRAMING PLAN

SLSH & ASSOC., INC.
1918 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96826

DRAWN BY	CHECKED BY	DATE	PROJECT NO.	SHEET
BRN	NL	9-30-2015	CC-11-5362	S1-02
DRAWN BY	APPROVED BY			
WM	NL			

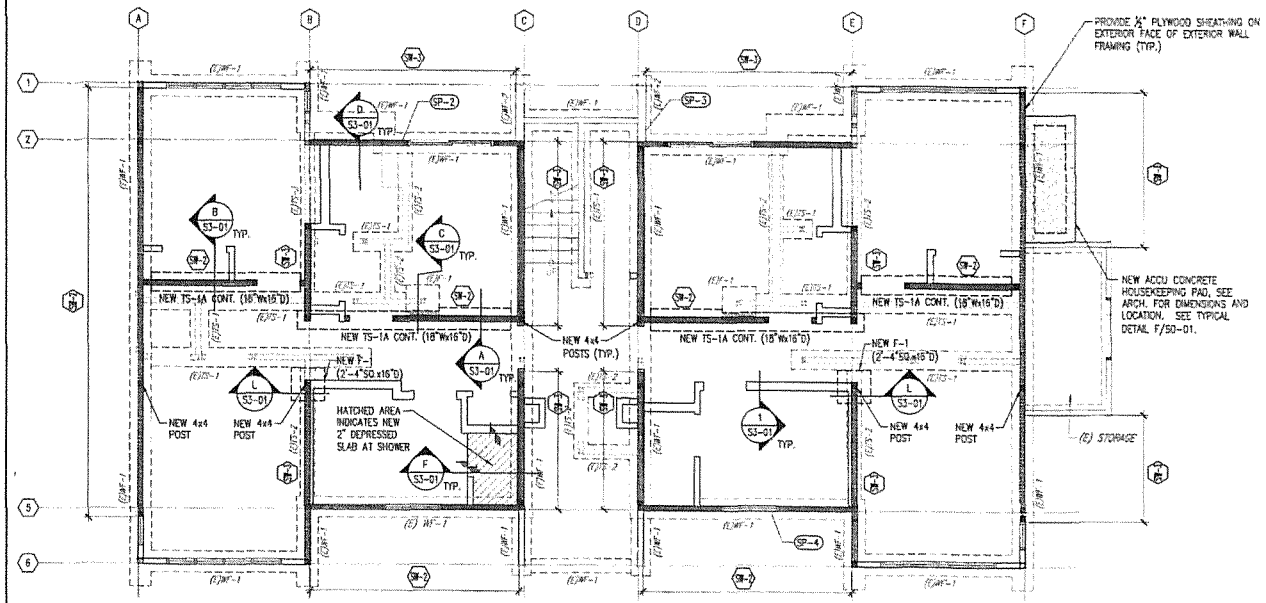
GRAPHIC SCALE

1/4"=1'-0" 4 2 0 4 8



LAB 1 - SECOND FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"



LAB 1 - FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

NEW SHEARWALL SCHEDULE

MARK	WALL SHEATHING	FASTENERS (NOTE 2)	2x4 BOTTOM PLATE CONNECTION TO FLOOR BELOW	HOLD DOWN
SW-1	½" MIN. STRUCTURAL I PLYWOOD, ONE FACE	8d COMMON NAILS AT 6/12	16d COMMON NAILS AT 16" O.C. (IN ADDITION TO EXISTING NAILS FOR 8" EFFECTIVE SPACING)	SIMPSON LSTA36
SW-2	½" MIN. STRUCTURAL I PLYWOOD, ONE FACE	8d COMMON NAILS AT 6/12	⅝" EPOXIED GALV. THREADED AT 32" O.C. (NOTE 4)	SIMPSON HDU2-SDS2.5
SW-3	½" MIN. STRUCTURAL I PLYWOOD, ONE FACE	8d COMMON NAILS AT 4/12	⅝" EPOXIED GALV. THREADED AT 32" O.C. (NOTE 4)	SIMPSON HDU4-SDS2.5
SW-4	½" MIN. STRUCTURAL I PLYWOOD, ONE FACE	8d COMMON NAILS AT 6/12	16d COMMON NAILS AT 8" O.C.	SIMPSON LSTA36

NOTES/LEGEND:

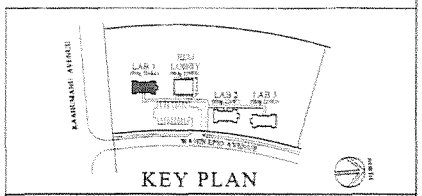
1. SW-1
   - TYPE
2. 4/12 DESIGNATES NAIL SPACING
   - INDICATES NAILS AT 12"o.c. AT INTERIOR OF PANELS.
   - INDICATES NAILS AT 4"o.c. ALONG PANEL EDGES.
3. PLYWOOD SHALL BE 15/32 STRUCTURAL I SHEATHING (4-PLY). PLYWOOD SHEATHING FASTENERS SHALL BE AS NOTED IN SCHEDULE. ALL PANEL EDGES MUST BE FULLY BLOCKED, UNLESS OTHERWISE NOTED IN SCHEDULE. NON-STRUCTURAL GYPSUM BOARD APPLIED TO OPPOSITE FACE MUST BE FULLY BLOCKED.
4. SEE EPOXIED ANCHOR NOTES ON SHEET S0-00.

CONCRETE REPAIR NOTES:

1. SEE CONCRETE REHABILITATION NOTES ON S0-00 FOR SPALL/CRACK REPAIR AND SPECIFICATION SECTION 03700 – CONCRETE REPAIR.
2. (SP-2): REPAIR SPALL AT EDGE OF SLAB. QUANTITY = 2 S.F.
3. (SP-3): REPAIR SPALL AT EDGE OF SLAB. QUANTITY = 2 S.F.
4. (SP-4): REPAIR SPALL AT EDGE OF SLAB. QUANTITY = 6 S.F.

GRAPHIC SCALE

1/4"=1'-0" 4' 2' 0 4' 8'



KEY PLAN

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE

LICENSED PROFESSIONAL ENGINEER No. 7159-S HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of the License: 4/30/15

UNIVERSITY OF HAWAII
STATE OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5362
224BA & 224BB HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

LAB 1
FOUNDATION AND SECOND FLOOR FRAMING PLANS

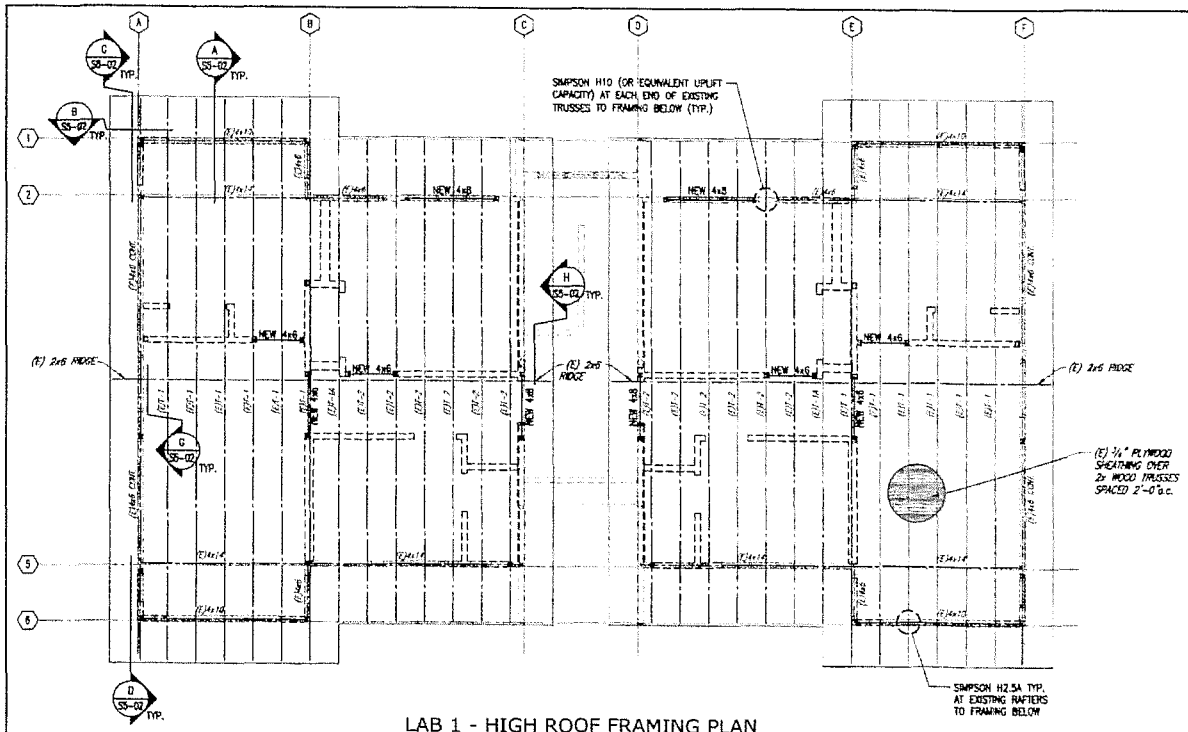
SLSH & ASSOC., INC.
1916 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96822

PROJECT NO. CC-11-5362

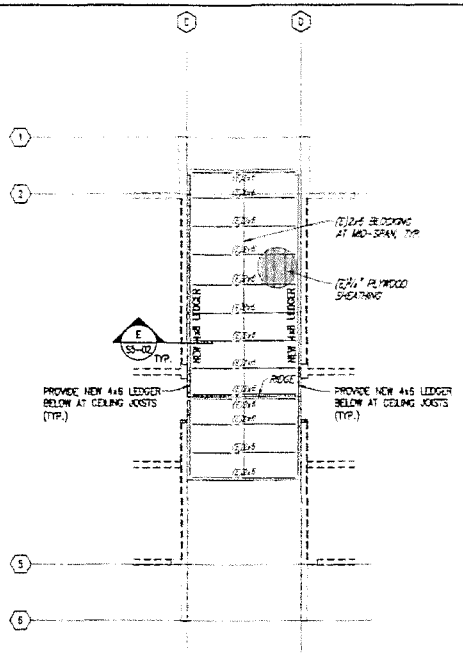
DESIGNED BY BKN | DRAWN BY HL | DATE 9-30-2013 | APPROVED BY HL | DRAWN BY KM

SHEET S1-03

SIZE 22 x 102 METRIC

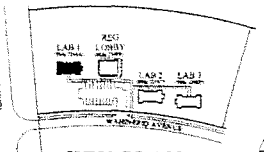


LAB 1 - HIGH ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



LOW ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE
1/4"=1'-0"



KEY PLAN

REVISION NO.	SYM.	DESCRIPTION	BY	DATE

UNIVERSITY OF HAWAII
STATE OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5362
22485A & 22485B HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

LAB 1
ROOF FRAMING PLANS

SLSH & ASSOC., INC.
1164 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96822

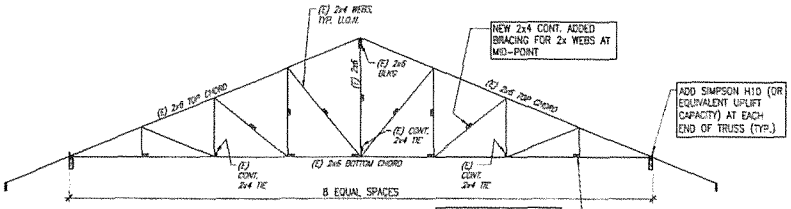
PROJECT NO. CC-11-5362

DATE 3-30-2015

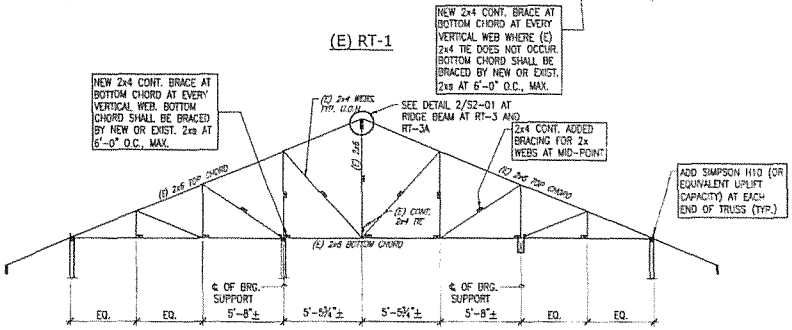
S1-04

LICENSED PROFESSIONAL ENGINEER
NO. 7139-S
HAWAII, U.S.A.

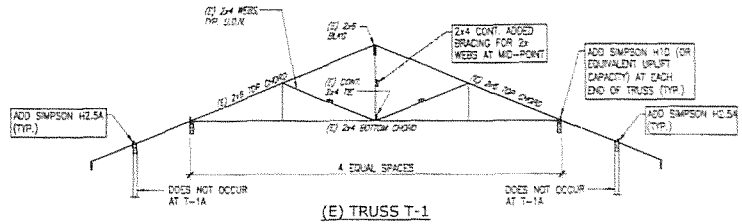
This work was prepared by me or under my supervision and construction of this project will be under my observation.
Expiration Date of the License 4/30/15



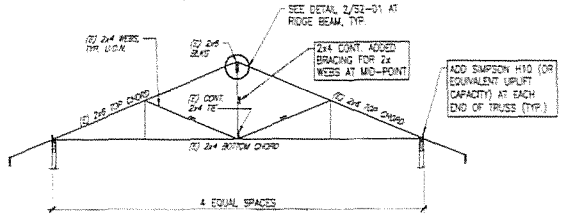
(E) RT-1



(E) RT-2
(E) RT-3 & RT-3A, SIMILAR



(E) TRUSS T-1



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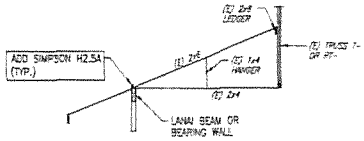
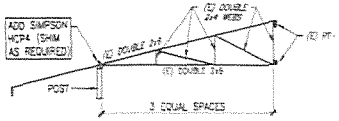
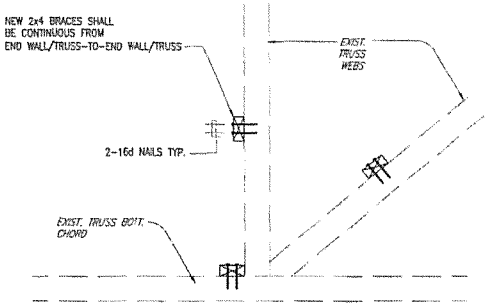


(E) JACK TRUSS RT-4

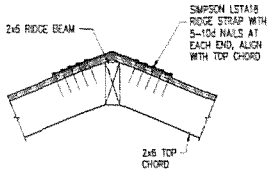


(E) HIP TRUSS RT-5 (DOUBLE)

A EXISTING TRUSS ELEVATIONS
S2-01 NOT TO SCALE



1 NEW 2x BRACING DETAIL
S2-01 NOT TO SCALE



RAFTER-TO-RIDGE CONDITION

2 RIDGE BEAM DETAIL
S2-01 NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE

UNIVERSITY OF HAWAII
STATE OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5362
22485A & 22485B HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

TRUSS ELEVATIONS

LICENSED PROFESSIONAL ENGINEER No. 7156-S HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of the License 4/30/15

SLSH & ASSOC., INC.
1314 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96826

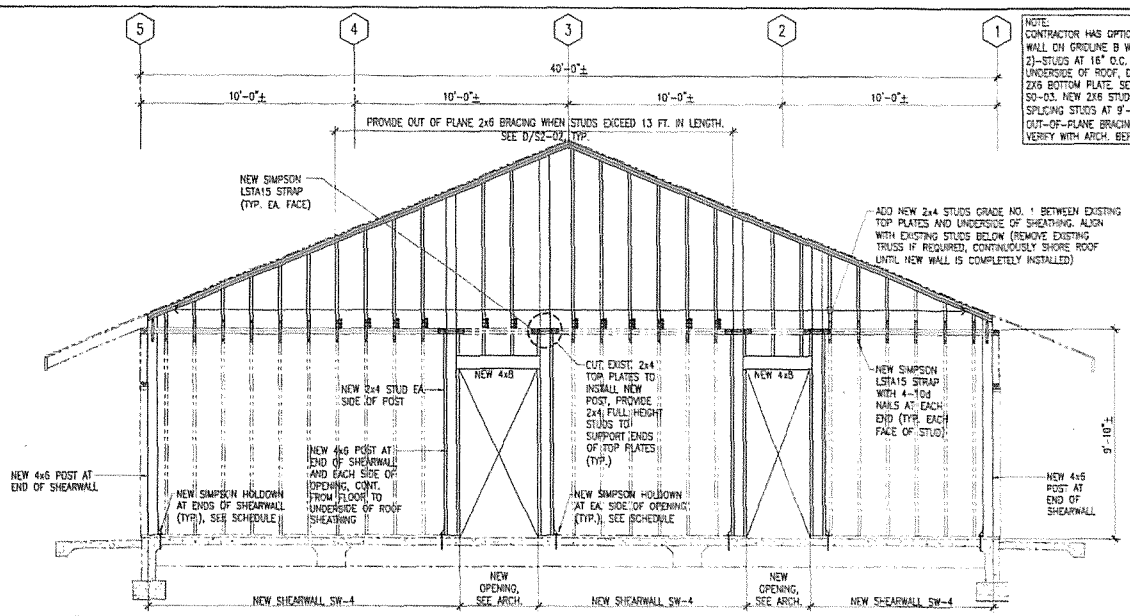
PROJECT NO. CC-11-5362

DATE 11-30-2013

DRAWN BY BKN | CHECKED BY HL | DRAWN BY MM | APPROVED BY HL

SHEET S2-01

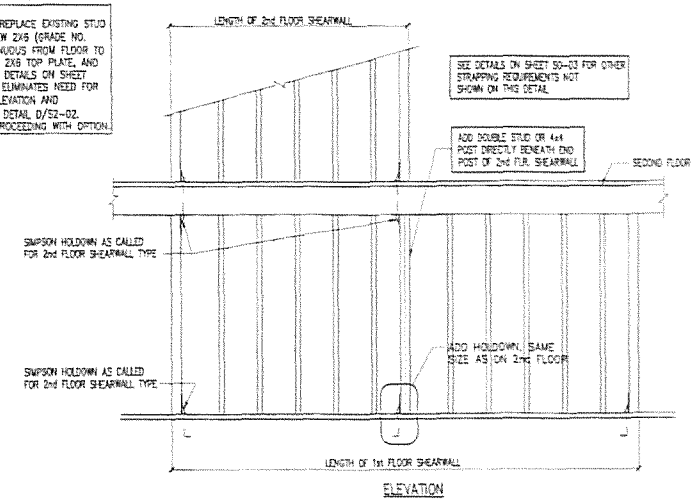
SIZE 24" x 36" (ARCH D)



NOTE:
CONTRACTOR HAS OPTION TO REPLACE EXISTING STUD WALL ON GRIDLINE B WITH NEW 2X6 (GRADE NO. 2)-STUDS AT 16" O.C. CONTINUOUS FROM FLOOR TO UNDERSIDE OF ROOF, DOUBLE 2X6 TOP PLATE, AND 2X6 BOTTOM PLATE. SEE TYP. DETAILS ON SHEET S0-03. NEW 2X6 STUD WALL ELIMINATES NEED FOR SPLICING STUDS AT 9'-10" ELEVATION AND OUT-OF-PLANE BRACING PER DETAIL D/S2-02. VERIFY WITH ARCH. BEFORE PROCEEDING WITH OPTION.

A / S2-02 WALL ELEVATION ON GRIDLINE B AT REGISTRATION LOBBY

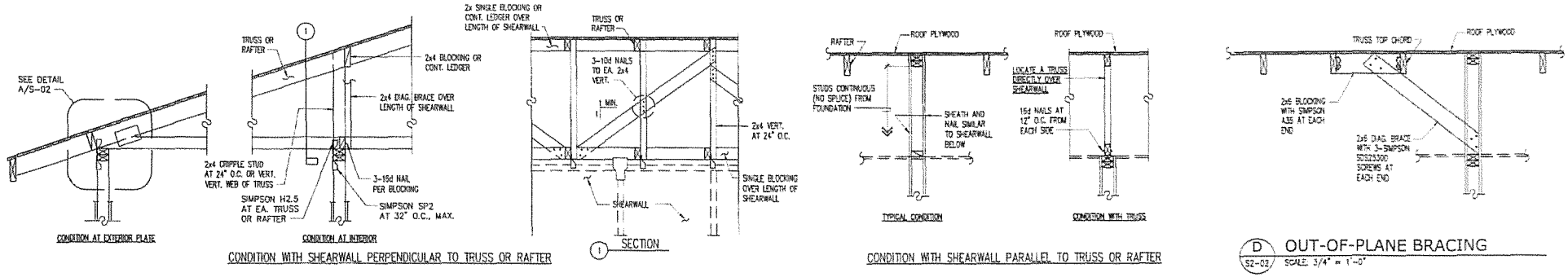
SCALE: 3/8" = 1'-0"



ELEVATION

B / S2-02 CONDITION WHEN END(s) OF 2ND FLOOR AND 1ST FLOOR SHEARWALL DO NOT ALIGN

NOT TO SCALE



C / S2-02 TYPICAL SHEARWALL CONNECTIONS TO ROOF

SCALE: 3/4" = 1'-0"

D / S2-02 OUT-OF-PLANE BRACING

SCALE: 3/4" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE

BEVERLY ISHII-NAKAZAWA LICENSED PROFESSIONAL ENGINEER No. 7159-3 HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of the License 4/30/16

UNIVERSITY OF HAWAII
STATE OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5362
2240A & 2240B HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

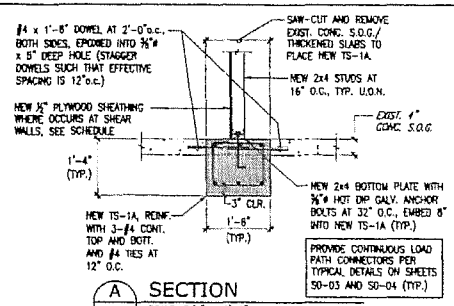
WALL ELEVATION AT REGISTRATION LOBBY

SLSH & ASSOC., INC.
1916 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96826

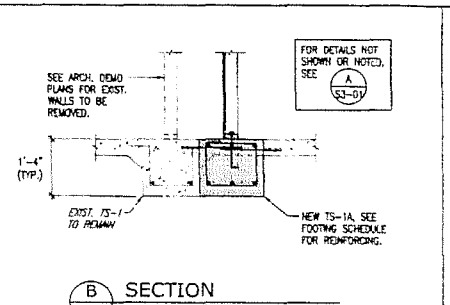
PROJECT NO. CC-11-5362

SHEET S2-02

DESIGNED BY BISH | CHECKED BY HL | DATE 8-30-2013
DRAWN BY MM | APPROVED BY HL | SH. 55 of 103 sheets



A S3-01 SECTION
SCALE: 3/4" = 1'-0"



B S3-01 SECTION
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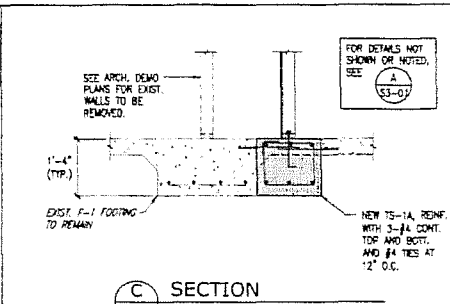
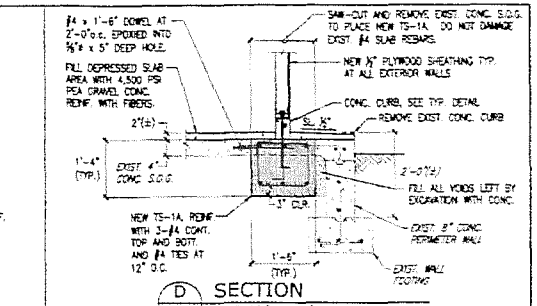


C S3-01 SECTION
SCALE: 3/4" = 1'-0"



D S3-01 SECTION
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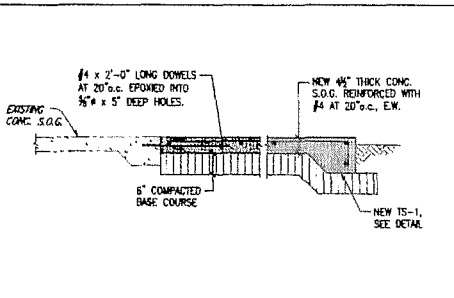
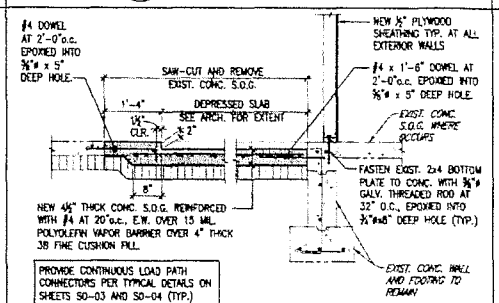
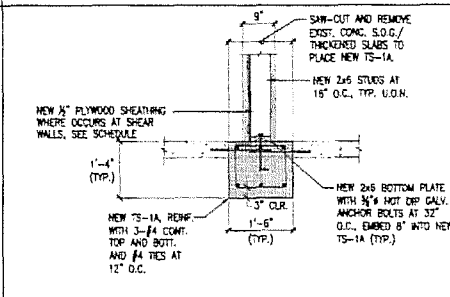


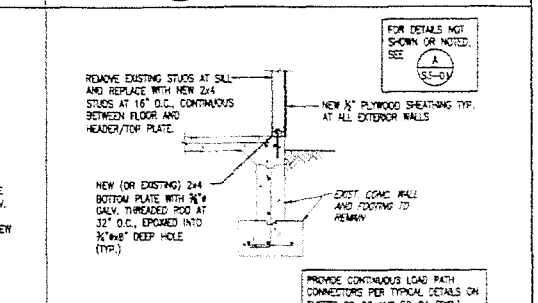
E S3-01 SECTION
SCALE: 3/4" = 1'-0"



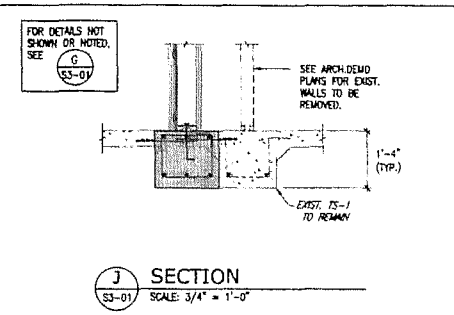
F S3-01 SECTION
SCALE: 3/4" = 1'-0"



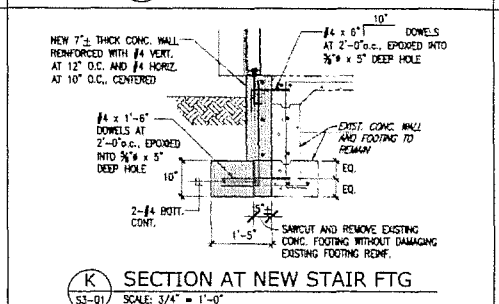
G S3-01 SECTION
SCALE: 3/4" = 1'-0"



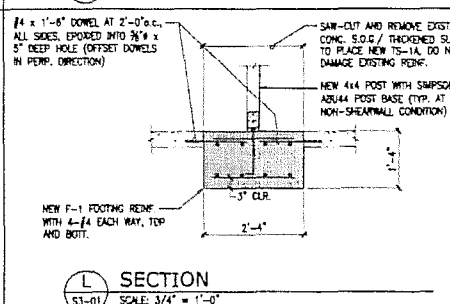
H S3-01 SECTION
SCALE: 3/4" = 1'-0"



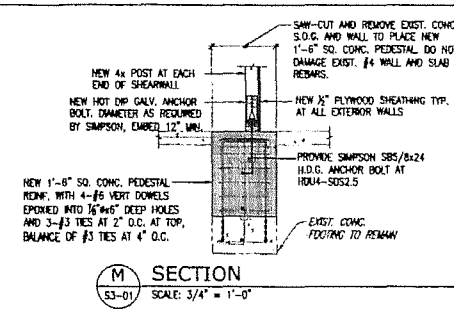
J S3-01 SECTION
SCALE: 3/4" = 1'-0"



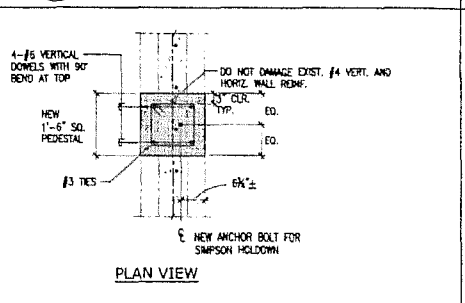
K S3-01 SECTION AT NEW STAIR FTG
SCALE: 3/4" = 1'-0"



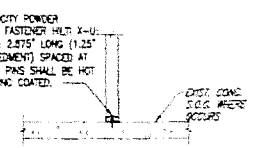
L S3-01 SECTION
SCALE: 3/4" = 1'-0"



M S3-01 SECTION
SCALE: 3/4" = 1'-0"



PLAN VIEW



1 S3-01 DETAIL AT NON-BEARING WALL
SCALE: 3/4" = 1'-0"

REVISION NO.	DATE	DESCRIPTION	BY	CHK	DATE

UNIVERSITY OF HAWAII
STATE OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5302
ZZ45A & ZZ46B HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

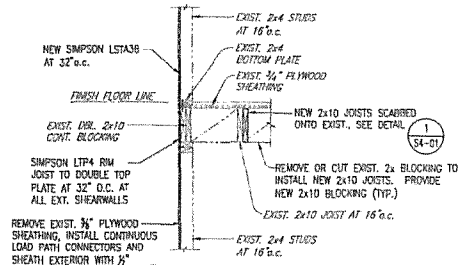
FOUNDATION SECTIONS AND DETAILS

REGISTERED PROFESSIONAL ENGINEER No. 7136-E HAWAII, U.S.A.

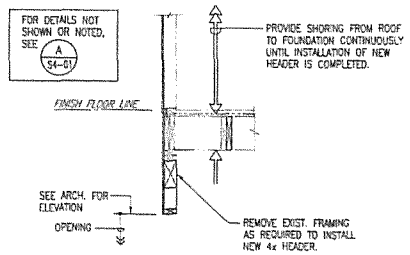
This work was prepared by me or under my supervision and construction of the project will be under my observation.
Expiration Date of the License 4/30/16

SLSH & ASSOC. INC.
1916 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96822

PROJECT NO. CC-11-5302
DATE 6-30-2015
SHEET S3-01
DRAWN BY SKW
CHECKED BY HL
DESIGN BY HM
APPROVED BY HL
SHEET SIZE 24" x 36" (ARCH D)



A S4-01 SECTION
SCALE: 3/4" = 1'-0"



B S4-01 SECTION
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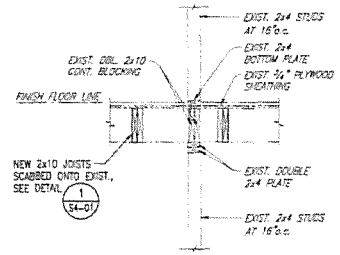

C S4-01 SECTION
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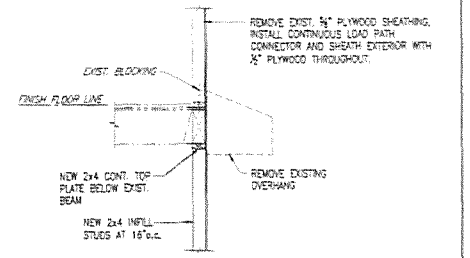

D S4-01 SECTION
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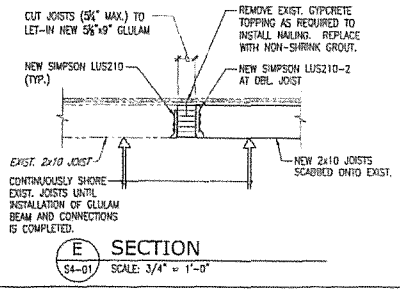
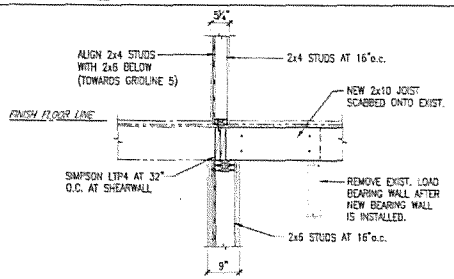
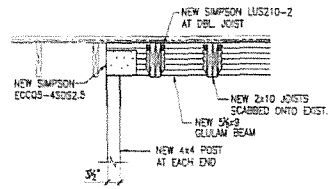


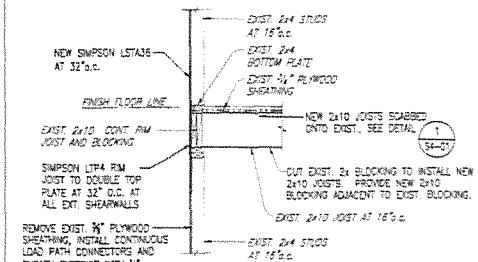
E S4-01 SECTION
SCALE: 3/4" = 1'-0"



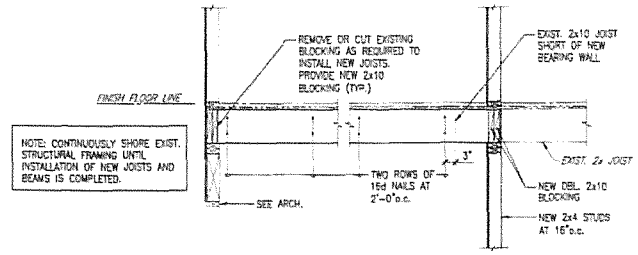
F S4-01 SECTION
SCALE: 3/4" = 1'-0"



G S4-01 SECTION
SCALE: 3/4" = 1'-0"



H S4-01 SECTION
SCALE: 3/4" = 1'-0"



1 S4-01 NEW 2x10 JOIST DETAIL
SCALE: 3/4" = 1'-0"

REVISION NO.	DTM	DESCRIPTION	SHT. OF	DATE

UNIVERSITY OF HAWAII
STATE OF HAWAII

LICENSED PROFESSIONAL ENGINEER
NO. 7134-A
HAWAII, U.S.A.

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5362
224BA & 224BB HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

SECOND FLOOR SECTIONS

This work was prepared by me or under my supervision and construction of this project will be under my observation.
Expiration Date of the License 4/30/15

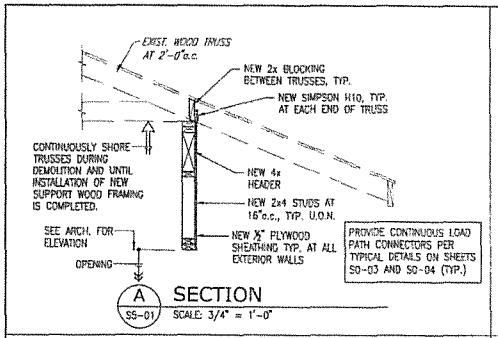
SLSH & ASSOC., INC
1916 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96826

PROJECT NO. CC-11-5362

SHEET S4-01

DESIGNED BY SKW | CHECKED BY HL | DATE 9-30-2015
DRAWN BY MM | APPROVED BY HL

SHT 57 of 122 SHEETS



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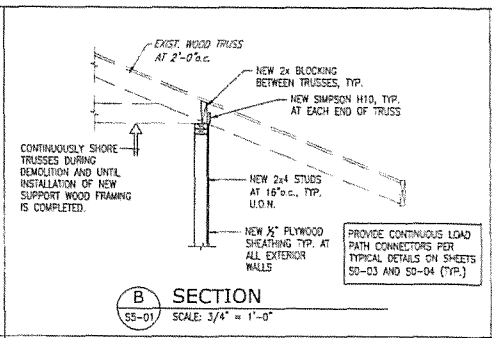

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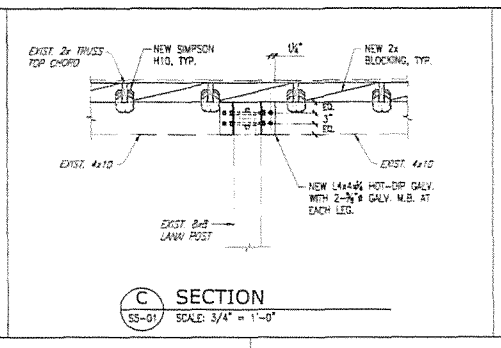

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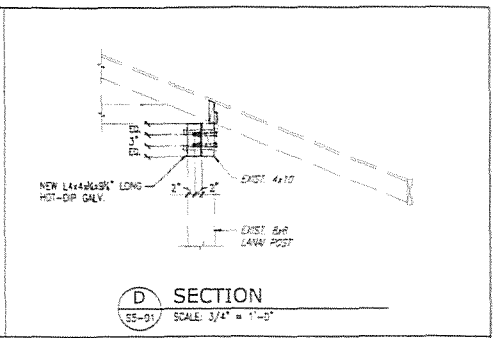

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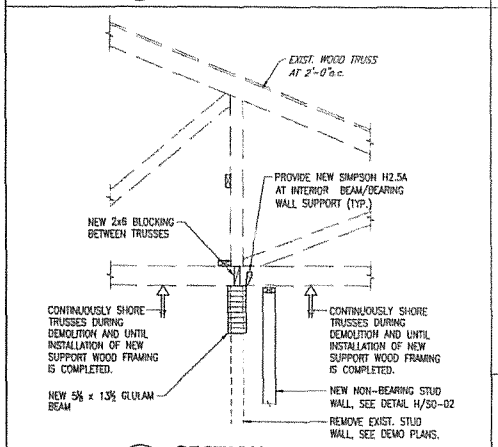

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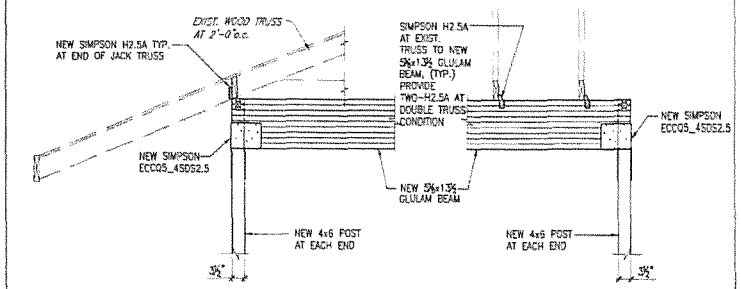

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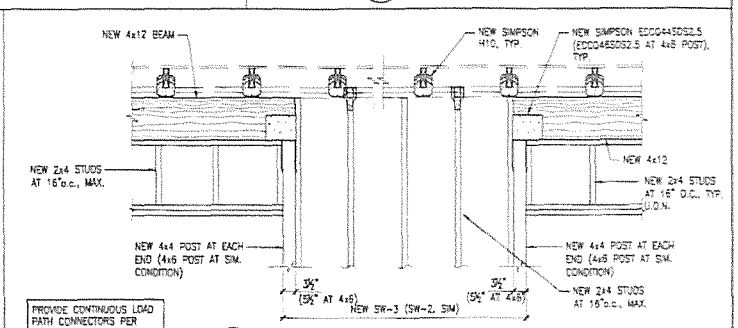

G S5-01 SECTION
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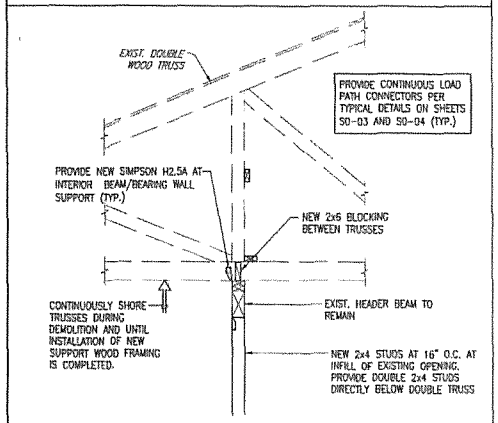

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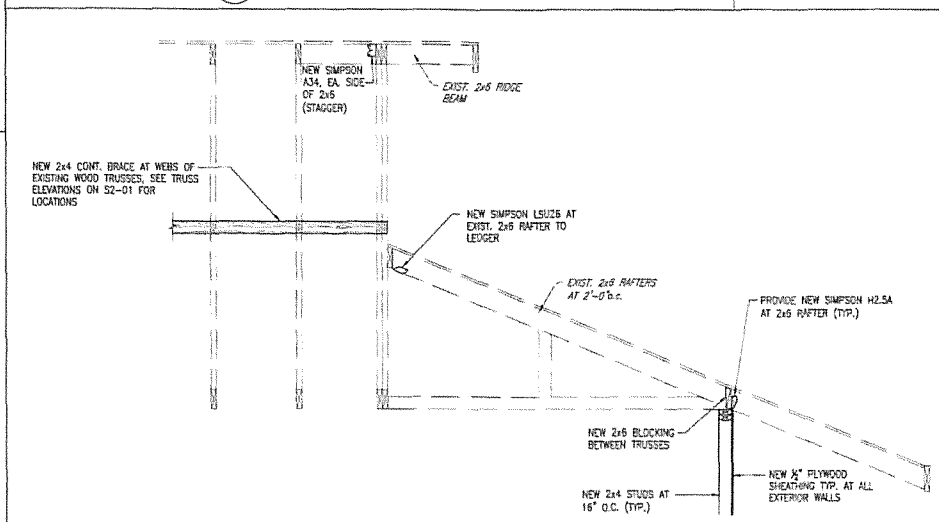

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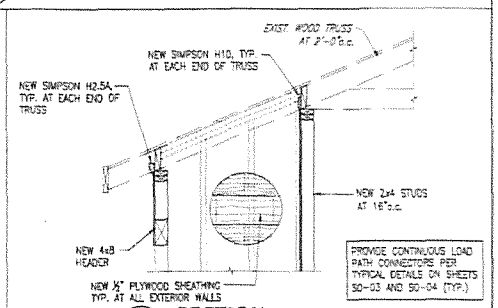


K S5-01 SECTION
SCALE: 3/4" = 1'-0"

REVISION NO.	DTM.	DESCRIPTION	SHT OF	DATE

BEVERLY ISHIO-HAYASHI LICENSED PROFESSIONAL ENGINEER No. 7179-S HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of the License: 4/30/15

UNIVERSITY OF HAWAII
STATE OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5362
224BA & 224BB HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

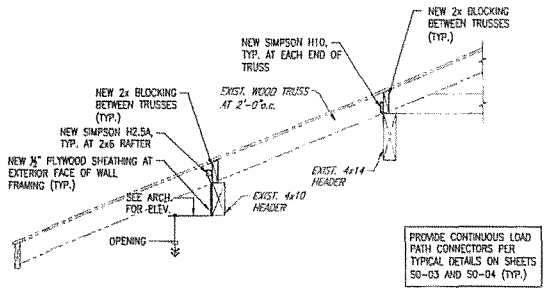
ROOF SECTIONS AND DETAILS

SLSH & ASSOC., INC.
1916 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96826

DESIGNED BY	CHECKED BY	DATE	PROJECT NO.	SHEET
BKH	HL	9-30-2013	CC-11-5362	S5-01
DRAWN BY	APPROVED BY			
MM	HL			

SCALE: 3/4" = 1'-0" WHEN PLOTTED ON 24x36 SHEET

Tue, 24 Nov 2015 - 1:28pm
U:\2011\11362\A - CAMPUS MAUI AND MAUI CO - Roof Replacement



A SECTION
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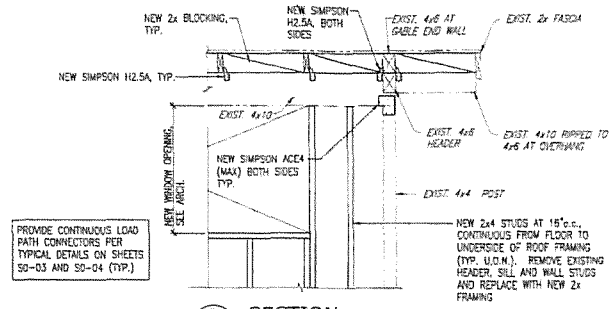

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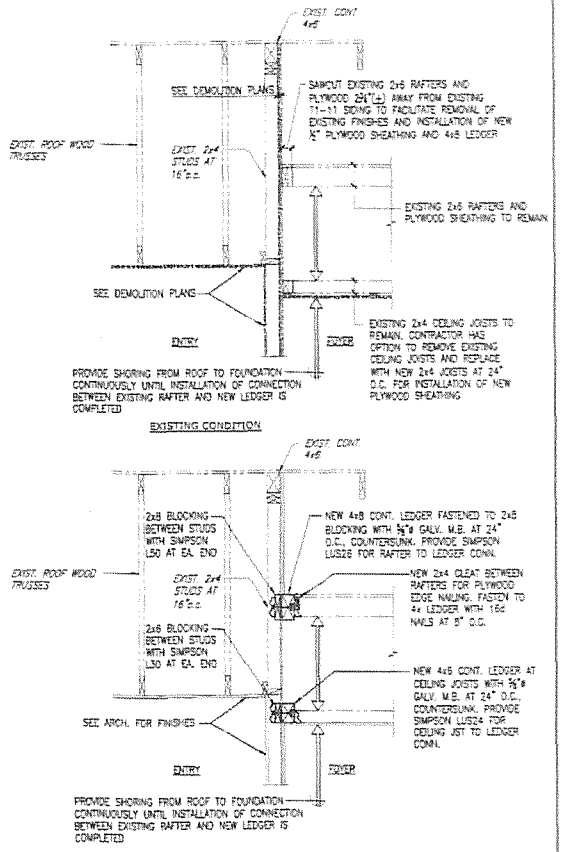

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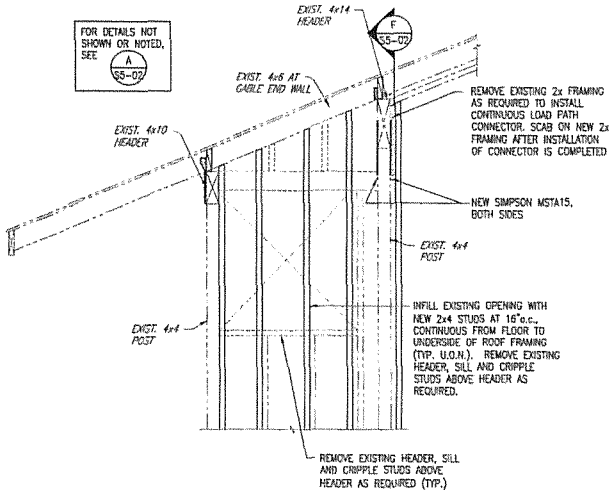

C SECTION
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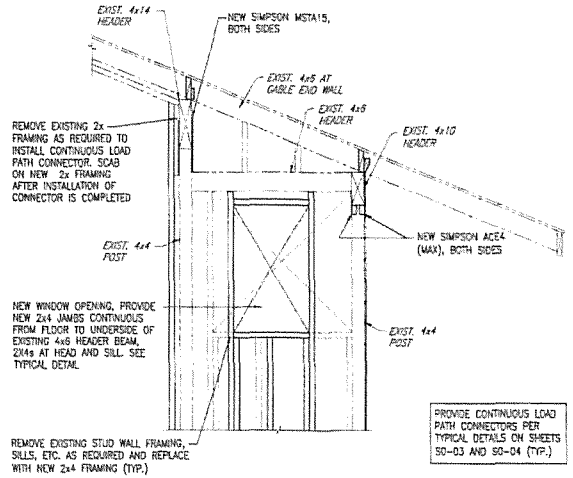

D SECTION
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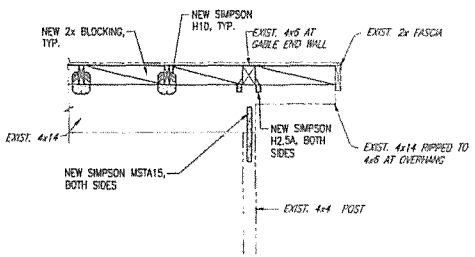

F SECTION
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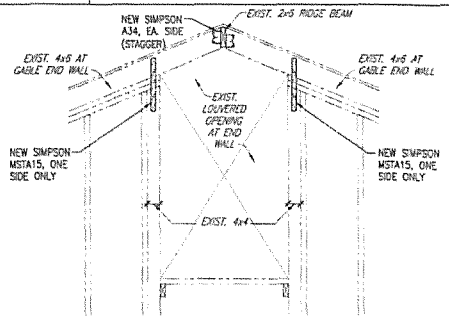
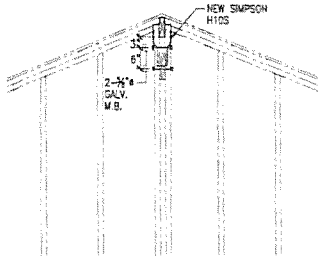


G SECTION
S5-02 SCALE: 3/4" = 1'-0"



H SECTION
S5-02 SCALE: 3/4" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	DRT. BY	DATE

LICENSED PROFESSIONAL ENGINEER — BEVERLY ISHIMOTO NAKASATO — No. 7150-3 — HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of the License: 4/30/16

UNIVERSITY OF HAWAII
STATE OF HAWAII

UNIVERSITY OF HAWAII MAUI COLLEGE
UH PROJECT NUMBER CC-11-5362
224BA & 224BB HOSPITALITY ACADEMY RENOVATION
KAHULUI, MAUI

ROOF SECTIONS AND DETAILS

SLSH & ASSOC., INC.
1088 YOUNG STREET, 2nd FLOOR
HONOLULU, HAWAII 96822

PROJECT NO. CC-11-5362

DATE 9-30-2015

S5-02

SCALE: 3/4" = 1'-0" (ARCH D)

Tue 24 Nov 2015 - 5:28pm
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