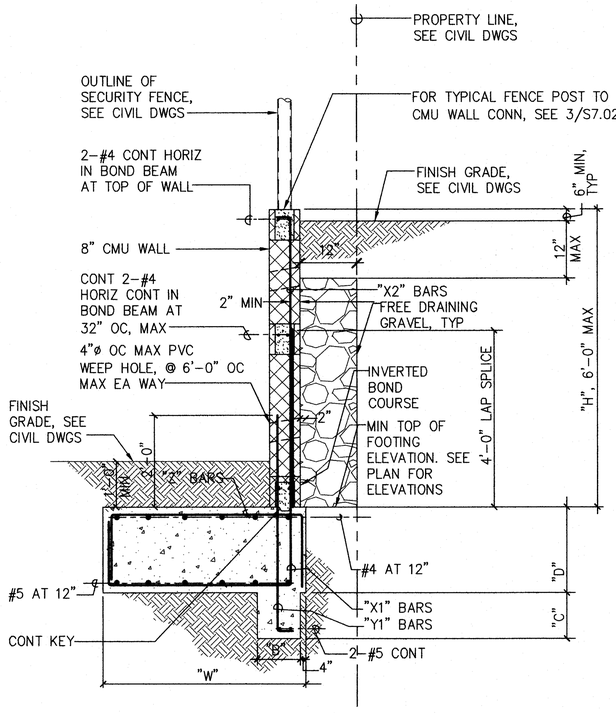
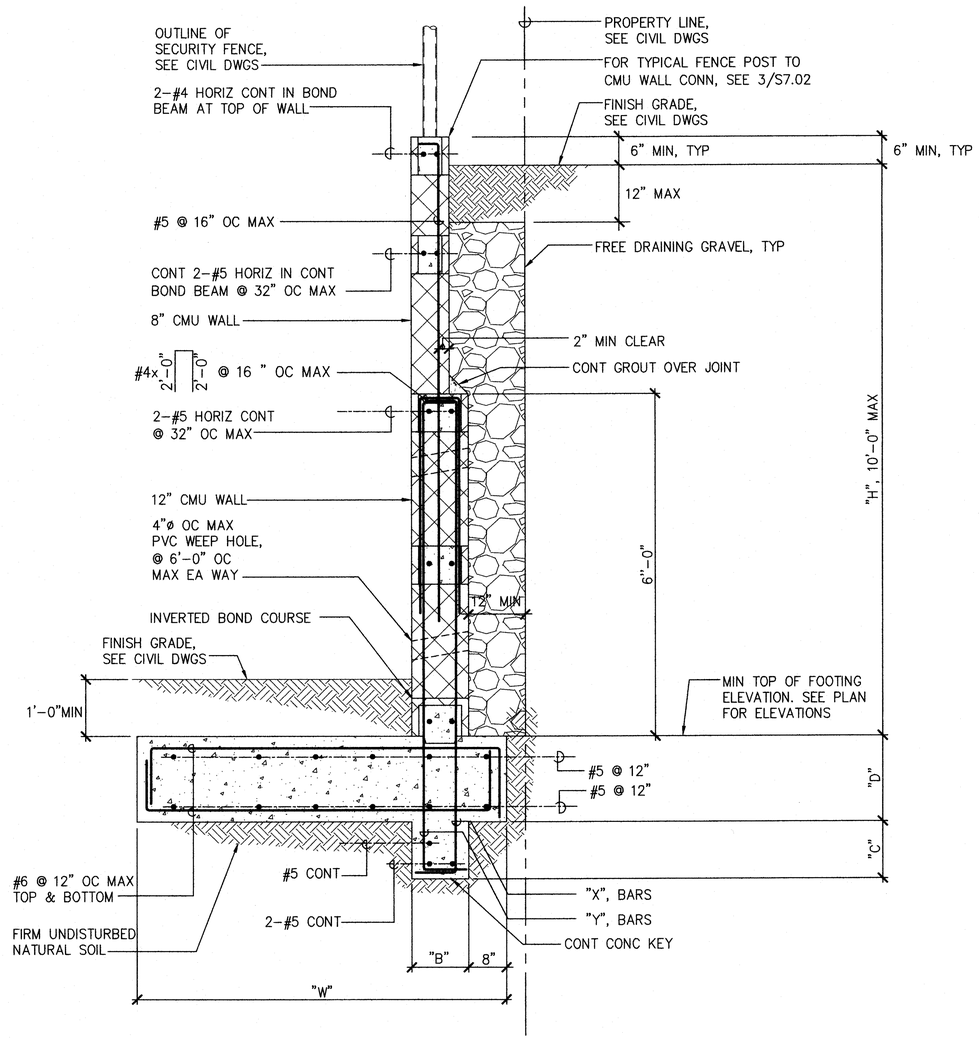


RETAINING H" ≤ 6'-0" SECTION
NOT TO SCALE



RETAINING 6'-0" < "H" ≤ 10'-0" SECTION
NOT TO SCALE

CMU RETAINING WALL SCHEDULE								
HEIGHT "H"	"D"	"W"	"B"	"C"	"X1" BARS	"X2" BARS	"Y1" BARS	"Z" BARS
H ≤ 6'-0"	1'-6"	4'-6"	1'-0"	1'-0"	#5 AT 16"	#5 AT 16"	#4 AT 16"	#4 AT 12"
6'-1" < H ≤ 10'-0"	1'-6"	6'-6"	1'-0"	1'-0"	#6 AT 16"	#5 AT 16"	#6 AT 16"	#4 AT 12"

NOTES:
1. CONTROL JOINTS SHALL BE LOCATED IN WALLS AT 12'-0" MAX INTERVALS.
2. FOR RETAINING WALL DRAINAGE DETAILS, SEE CIVIL DRAWINGS.
3. FOR RETAINING WALL LOCATION IN REFERENCE TO PROPERTY LINE, SEE CIVIL DWGS

1 / S6.01 CMU SITE RETAINING WALL SCHEDULE
NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

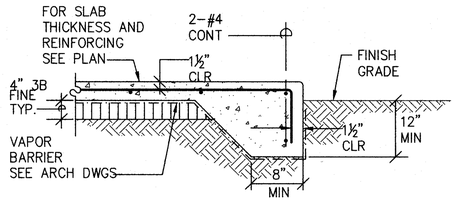
RON E. IWAMOTO LICENSED PROFESSIONAL ENGINEER No. 8871-S HAWAII, U.S.A.
4/30/16
EXP. DATE
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

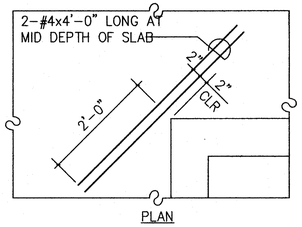
MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

CMU SITE RETAINING WALL DETAILS

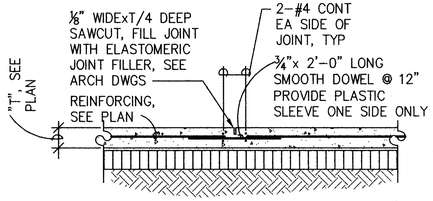
DESIGNED:	RI	SUBMITTED:	
DRAWN:	IB	DATE:	03/15/2016
CHECKED:	RI	SCALE:	
APPROVED: CHIEF ENGINEER		MAR 2 3 2016 DATE	DRAWING NO. S6.01



AT SLAB EDGE



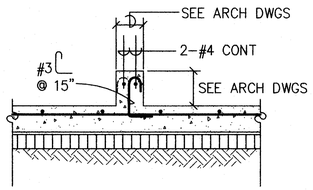
REINF AT REENTRANT CORNERS



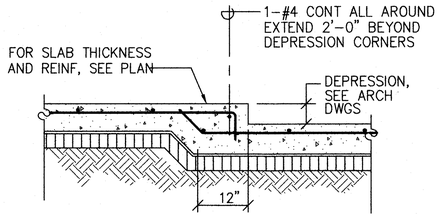
CONTROL JOINT – CJ–1

(PROVIDE PERPENDICULAR TO CONSTRUCTION JOINTS AND CONTROL JOINTS)

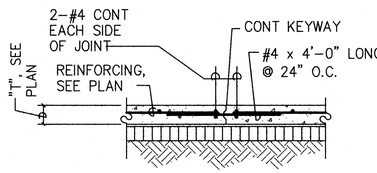
NOTE:
SAW CUTTING SHALL OCCUR AS SOON AS CONCRETE SURFACE IS FIRM ENOUGH TO NOT BE TORN BY CUTTING BLADE AND BEFORE SHRINKAGE CRACKING OCCURS, BUT NO LATER THAN 12 HOURS AFTER CONCRETE HAS BEEN POURED.



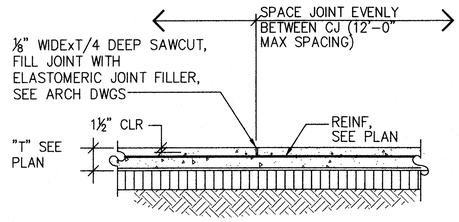
AT CURB



AT DEPRESSED SLAB



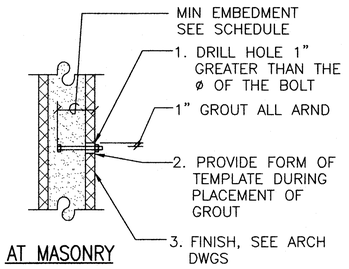
CONSTRUCTION JOINT– CJ–2



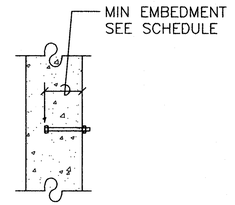
SAWCUT JOINT

BOLT DIAMETER	MINIMUM EMBEDMENT
½"	4"
⅝"	5"
¾"	6"

NOTE: POSSIBLE INSTALLATION PROCEDURE NUMBERED FOR MASONRY



AT MASONRY

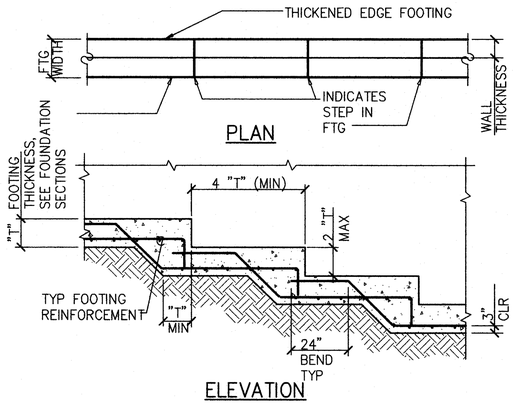


AT CONCRETE

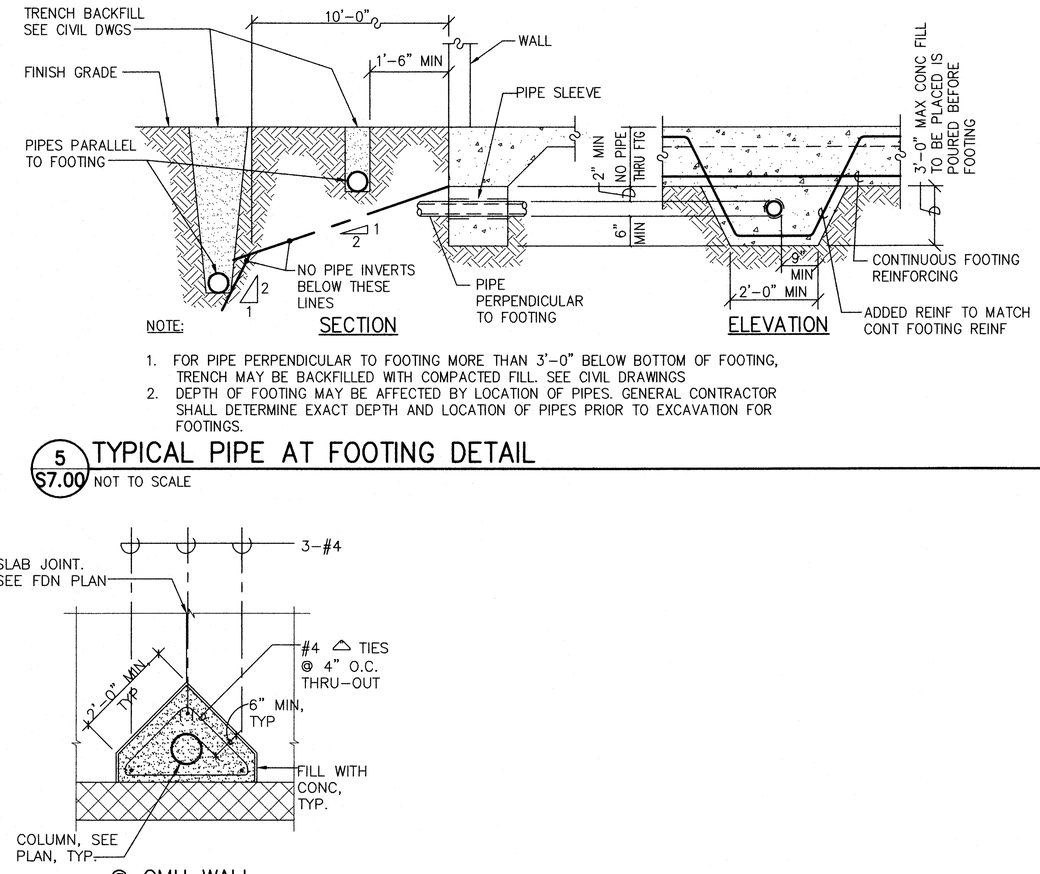
1 S7.00 TYPICAL SLAB–ON–GRADE DETAILS
NOT TO SCALE

2 S7.00 TYPICAL SLAB JOINT DETAIL
NOT TO SCALE

3 S7.00 TYPICAL ANCHOR BOLT DETAIL
NOT TO SCALE



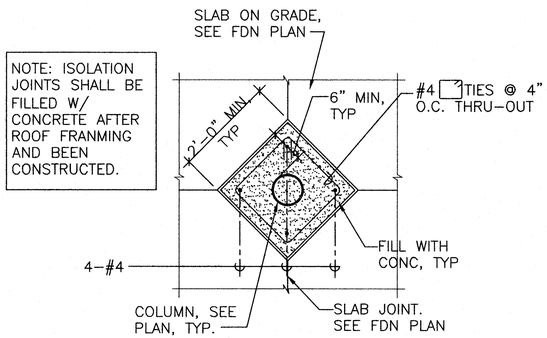
4 S7.00 TYPICAL STEPPED FOOTING DETAIL
NOT TO SCALE



1. FOR PIPE PERPENDICULAR TO FOOTING MORE THAN 3'–0" BELOW BOTTOM OF FOOTING, TRENCH MAY BE BACKFILLED WITH COMPACTED FILL. SEE CIVIL DRAWINGS
2. DEPTH OF FOOTING MAY BE AFFECTED BY LOCATION OF PIPES. GENERAL CONTRACTOR SHALL DETERMINE EXACT DEPTH AND LOCATION OF PIPES PRIOR TO EXCAVATION FOR FOOTINGS.

5 S7.00 TYPICAL PIPE AT FOOTING DETAIL
NOT TO SCALE

NOTE: ISOLATION JOINTS SHALL BE FILLED W/ CONCRETE AFTER ROOF FRANMING AND BEEN CONSTRUCTED.



6 S7.00 TYPICAL COLUMN ISOLATION JOINT
NOT TO SCALE

@ CMU WALL

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

RON E. IWAMOTO LICENSED PROFESSIONAL ENGINEER No. 8871–S HAWAII, U.S.A.

4/30/16
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

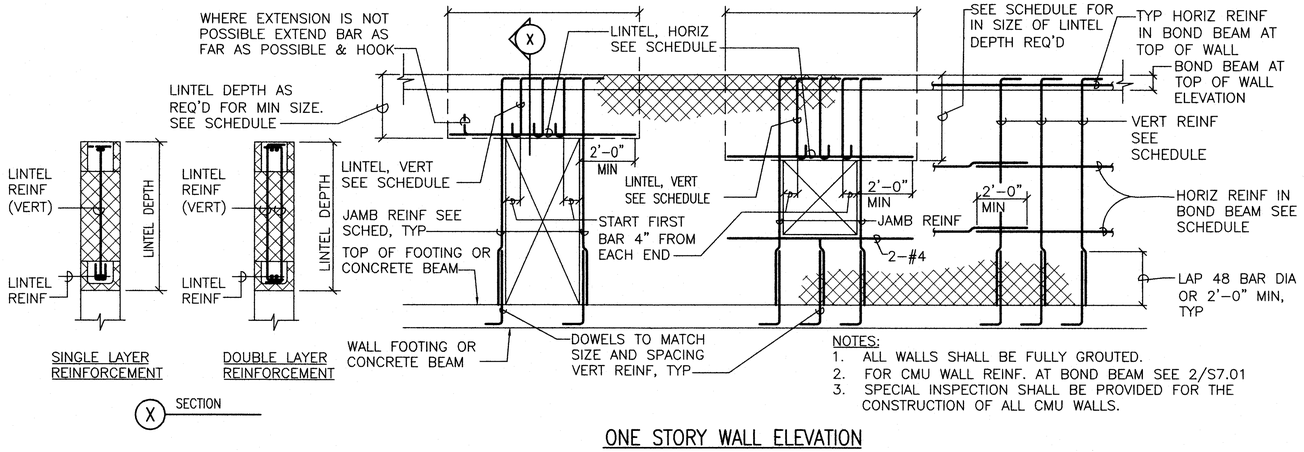
TYPICAL DETAILS

DESIGNED:	RI	SUBMITTED:	
DRAWN:	IB	DATE:	03/15/2016
CHECKED:	RI	SCALE:	

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. S7.00

JOB NO. J43CM74A



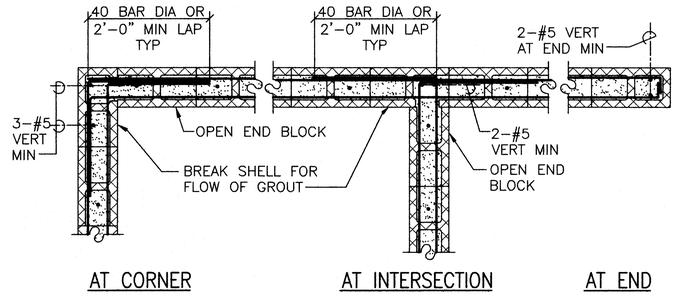
NOTES:
1. ALL WALLS SHALL BE FULLY GROUTED.
2. FOR CMU WALL REINF. AT BOND BEAM SEE 2/S7.01
3. SPECIAL INSPECTION SHALL BE PROVIDED FOR THE CONSTRUCTION OF ALL CMU WALLS.

ONE STORY WALL ELEVATION

CMU WALL REINFORCING SCHEDULE				
LOCATION	WALL THICKNESS	BAR SIZE AND SPACING		
		HORIZ	VERT	REMARKS
W-1	8"	2-#4 AT 48"	#5 AT 16" CENTERED	TYPICAL
W-2	8"	2-#4 AT 24"	#5 AT 16" CENTERED	

OPENING SCHEDULE					
OPENING WIDTH	LINTEL DEPTH	REINFORCING			
		JAMB	LINTEL HORIZ U.O.N.	LINTEL VERT	REMARKS
W ≤ 4'-0"	1'-4"	2-#5	2-#5	#4 AT 16"	
4'-0" < W ≤ 10'-0"	2'-0"	2-#6	2-#5	#4 AT 8"	
W > 10'-0"	3'-4"	2-#6	2-#6	#5 AT 8"	

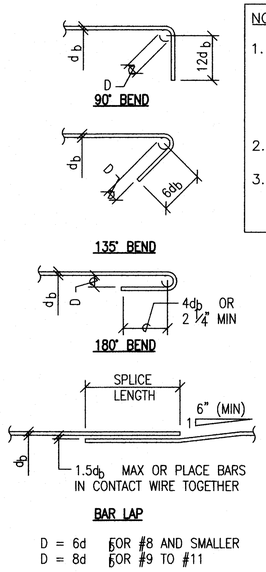
1 S7.01 TYPICAL CMU WALL ELEVATION
NOT TO SCALE



2 S7.01 TYPICAL CMU WALL REINFORCING AT BOND BEAM
NOT TO SCALE

MINIMUM SPLICE & EMBEDMENT LENGTHS FOR CONCRETE					
BAR SIZE	LAP SPLICE		EMBEDMENT		
	BOT BAR OR WALL BAR	TOP BAR	STRAIGHT		W/ STD HOOK
			BOT BAR OR WALL BAR	TOP BAR	
#3, #4	29"	38"	22"	29"	11"
#5	36"	47"	28"	36"	14"
#6	43"	56"	33"	43"	17"
#7	63"	82"	48"	63"	20"

MINIMUM SPLICE & EMBEDMENT LENGTHS FOR MASONRY					
BAR SIZE	LAP SPLICE		EMBEDMENT		
	EDGE BAR	CENTERED BAR	STRAIGHT		W/ STD HOOK
			EDGE BAR	CENTERED BAR	
#3, #4	26"	24"	26"	24"	11"
#5	40"	30"	40"	30"	14"
#6	74"	36"	74"	36"	17"



D = 6d FOR #8 AND SMALLER
D = 8d FOR #9 TO #11

NOTES:
1. LENGTHS ARE FOR CONCRETE BEAMS & COLUMNS WITH REBAR SPACED 1 BAR DIAMETER MIN OC. AND CONCRETE WALLS WITH REBARS SPACED 2 BAR DIAMETERS MIN OC INCREASE BAR LENGTH 50% FOR BARS SPACED CLOSER THAN MINIMUMS SPECIFIED.
2. "TOP BARS" ARE HORIZONTAL BARS WITH 12" OR MORE OF CONCRETE CAST BELOW.
3. BEND & HOOKS SHALL BE "STANDARD HOOKS" IN ACCORDANCE WITH ACI 318

3 S7.01 TYPICAL REBAR SPLICE & EMBEDMENT LENGTH SCHEDULE
NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

RON E. IWAMOTO LICENSED PROFESSIONAL ENGINEER No. 8871-S HAWAII, U.S.A.

4/30/16
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

TYPICAL DETAILS

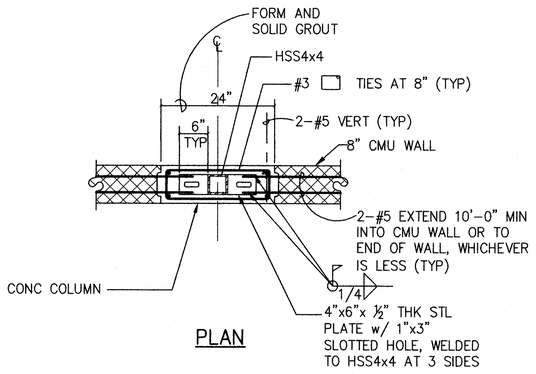
DESIGNED:	RI	SUBMITTED:	
DRAWN:	IB	DATE:	03/15/2016
CHECKED:	RI	SCALE:	

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

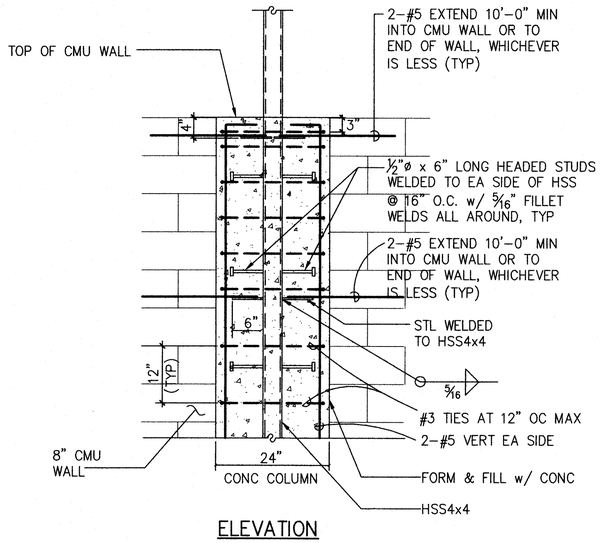
DRAWING NO. S7.01

JOB NO. J43CM74A SHEET NO. 105 OF 152 SHEETS

NOTE:
1. SEE GENERAL NOTES FOR WELDED REINFORCING STEEL REQUIREMENTS.
2. SEE 2/S7.02 FOR TYPICAL REBAR AND HEADED STUD WELDING DETAILS.



PLAN

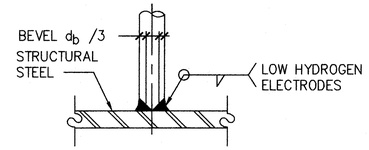


ELEVATION

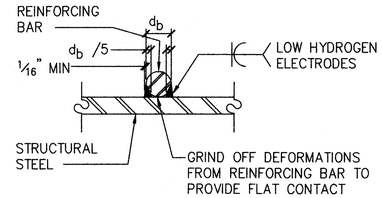
STEEL COLUMN AT CONTINUOUS WALL

1 S7.02 TYPICAL CMU WALL REINFORCING AT BOND BEAM

NOT TO SCALE



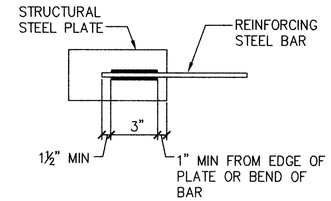
HEADED STUD PERPENDICULAR TO STRUCTURAL STEEL



BAR PARALLEL TO STRUCTURAL STEEL

NOTES:
1. ALL WELDING SHALL CONFORM TO AWS D1.4

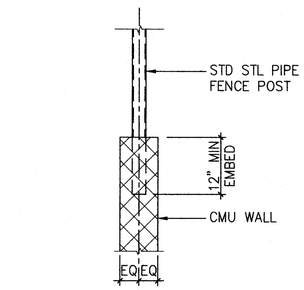
d_b	FILLET WELD
5/8"ø	5/16
3/4"ø	3/8



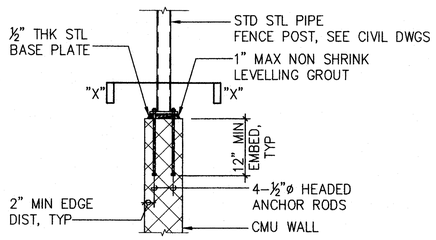
PLAN

2 S7.02 TYPICAL REBAR & STUD WELDING DETAIL

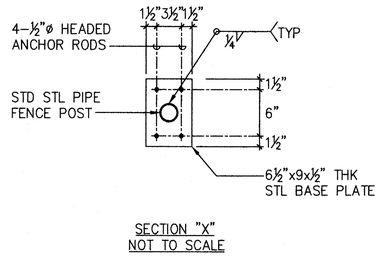
NOT TO SCALE



CONDITION @ 2½"ø STD STL PIPE POST



CONDITION @ 3½"ø STD STL PIPE POST



SECTION "X"
NOT TO SCALE

3 S7.02 TYPICAL STD STL PIPE FENCE POST TO CMU WALL DETAIL

NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

RON E. IWAMOTO
LICENSED PROFESSIONAL ENGINEER
No. 8871–S
HAWAII, U.S.A.

4/30/16
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

TYPICAL DETAILS

DESIGNED:	RI	SUBMITTED:	
DRAWN:	IB	DATE:	03/15/2016
CHECKED:	RI	SCALE:	

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. S7.02

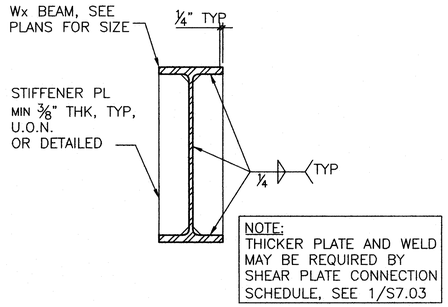
JOB NO. J43CM74A

SHEET NO. 106 OF 152 SHEETS

SHEAR PLATE CONNECTION SCHEDULE					
TYPE OF BEAM	ROOF FRAMING MEMBERS				
BEAM SIZE	W6x	W8x, W10x	W12x, W14x	W16x	W18x
CONNECTION PLATE THICKNESS	¼"	¼"	⅜"	½"	½"
BOLT TYPE	A325N	A325N	A325N	A325N	A325N
BOLT DIAMETER	⅝"	¾"	¾"	¾"	¾"
NUMBER OF BOLTS*	2	2	3	4	5
MIN BOLT SPACING*	3	3	3	3	3
MIN EDGE DISTANCE*	1¼"	1½"	1½"	1½"	1½"
FILLET WELD	³⁄₁₆"	¼"	¼"	⁵⁄₁₆"	⁵⁄₁₆"
* UNLESS NOTED OTHERWISE OR INDICATED ON SECTIONS					

1 S7.03 TYPICAL SHEAR PLATE CONNECTION SCHEDULE

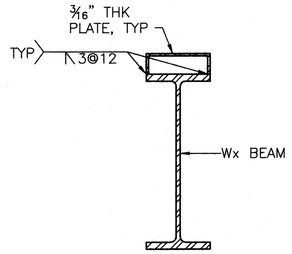
NOT TO SCALE



NOTE:
THICKER PLATE AND WELD MAY BE REQUIRED BY SHEAR PLATE CONNECTION SCHEDULE, SEE 1/S7.03

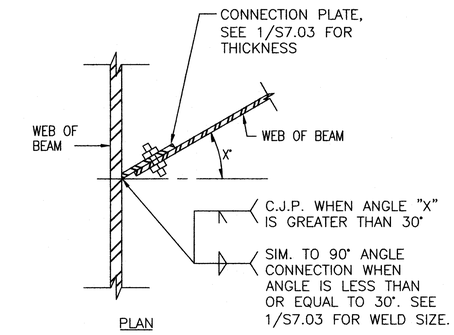
2 S7.03 TYPICAL STIFFENER PLATE DETAIL

NOT TO SCALE



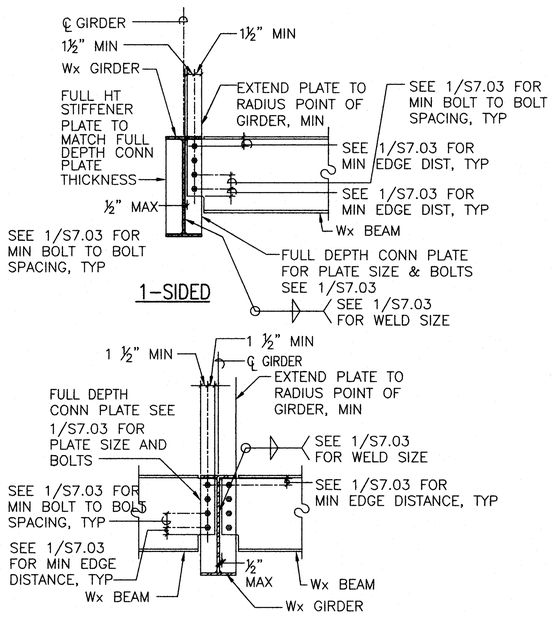
3 S7.03 TYPICAL BENT PLATE DETAIL

NOT TO SCALE



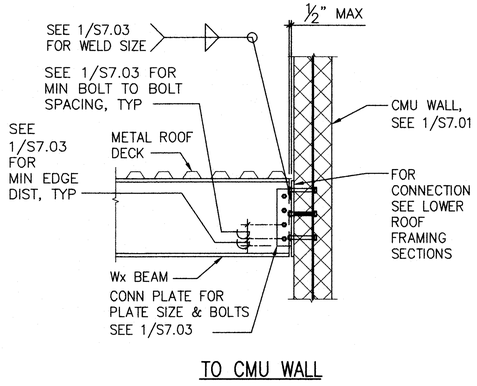
4 S7.03 TYPICAL SKEWED BEAM CONNECTION DETAIL

NOT TO SCALE

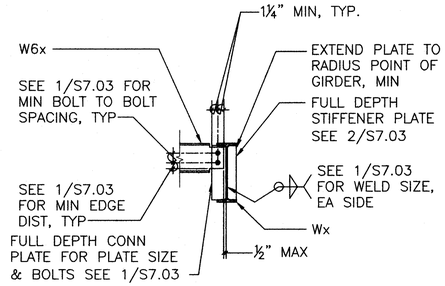


5 S7.03 TYPICAL BEAM TO GIRDER OR SHEAR PLATE CONNECTIONS

NOT TO SCALE



TO CMU WALL



TYPICAL W6x

NOTES:

1. CONNECTIONS SHOWN ARE TYPICAL UNLESS SPECIFICALLY DETAILED OTHERWISE.

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

RON E. IWAMOTO LICENSED PROFESSIONAL ENGINEER No. 8871-S HAWAII, U.S.A.

4/30/16
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

TYPICAL DETAILS

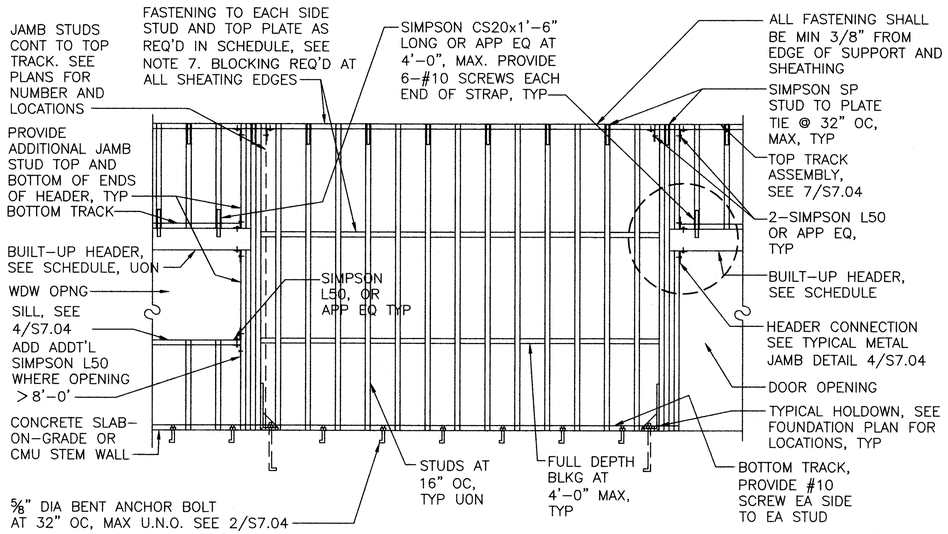
DESIGNED:	RI	SUBMITTED:	
DRAWN:	IB	DATE:	03/15/2016
CHECKED:	RI	SCALE:	

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. S7.03

JOB NO. J43CM74A

SHEET NO. 107 OF 152 SHEETS

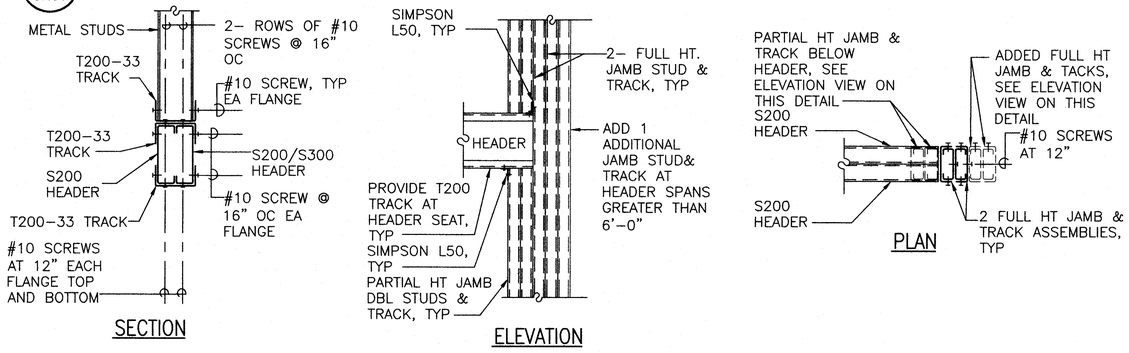


NOTES:
1. SEE 1/S7.05 FOR TOP TRACK ASSEMBLY DETAIL.
2. BOTTOM TRACKS SHALL BE TYPE "T200" AND SHALL BE MINIMUM 20 GAGE.
3. JAMB STUDS AND STUD BLOCKING SHALL BE OF THE SAME TYPE, WIDTH, UNLESS OTHERWISE NOTED. AND GAGE AS THE TYPICAL STUD.
4. #10 SCREWS SHALL BE USED FOR ALL METAL STUD CONNECTIONS, UNLESS OTHERWISE NOTED.
5. MINIMUM EDGE DISTANCE AND SPACING FOR #10 SCREWS SHALL BE 1".
6. UNLESS OTHERWISE NOTED ON PLANS, SEE HEADER SCHEDULE FOR HEADER SIZES.
7. GYPSUM SHEATHING TO BE FASTENED AT ALL EDGES OF EACH PIECE AS FOLLOWS:
   EDGE – #10 SCREWS @ 4" OC
   FIELD – #10 SCREWS @ 12" OC

362S- STUDWALL HEADER SCHEDULE		
WIDTH OF OPENING	HEADER	REMARKS
UP TO 6'-0"	DOUBLE 600S200-54	SEE 4/S7.04

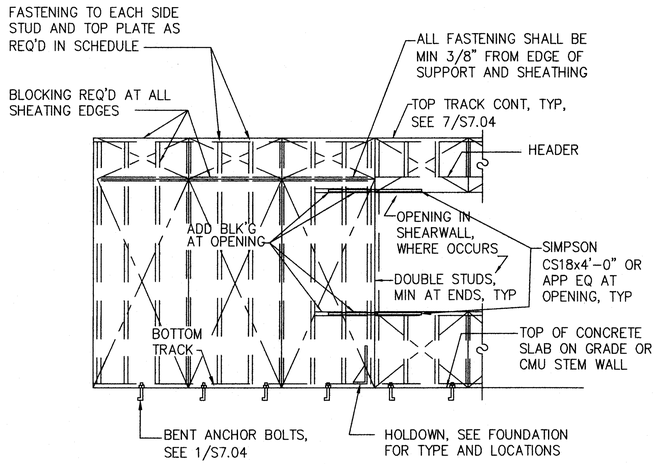
600S- STUDWALL HEADER SCHEDULE		
WIDTH OF OPENING	HEADER	REMARKS
UP TO 14'-0"	DOUBLE 1000S300-54	SEE 4/S7.04

1 S7.04 TYPICAL COLD-FORMED STEEL STUDWALL ELEVATION
NOT TO SCALE



NOTES:
1. JAMB TACKS SHALL BE TYPE "T200" AND OF THE SAME WIDTH AND GAGE AS THE TYPICAL JAVB STUD.
2. CONNECTO JAMB TACKS TO JAMB STUDS WITH #10 SCREWS AT 12" OC EACH FLANGE.
3. TYPICAL STUD FRAMING NOT SHOWN FOR CLARITY.

4 S7.04 TYPICAL COLD-FORMED STEEL STUDWALL JAMB DETAIL
NOT TO SCALE



NOTES:
1. SHEATHING TO BE FASTENED AT ALL EDGES OF EACH PIECE PER SCHEDULE.
2. INDIVIDUAL PIECES OF SHEATHING SHALL BE 1'-4" (MINIMUM) IN LEAST DIMENSION AND NOT LESS THAN 8 SQ FT TOTAL AREA.

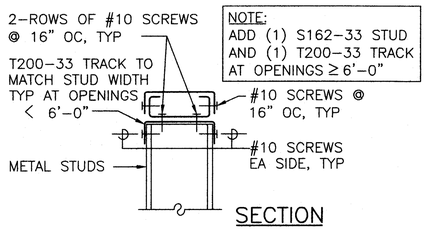
SHEAR PANEL SCHEDULE				
TYPE	NAILING		ANCHOR BOLTS TO CONCRETE SLAB	SHEATHING
	EDGE	FIELD		
SW-1	#10 SCREWS @ 4" OC	#10 SCREWS @ 12" OC	5/8"ø BENT ANCHOR BOLTS @ 32" OC, MAX	1/2" THK PLYWOOD SHEATHING ONE FACE
SW-2	#10 SCREWS @ 4" OC	#10 SCREWS @ 12" OC	5/8"ø BENT ANCHOR BOLTS @ 16" OC, MAX	1/2" THK PLYWOOD SHEATHING BOTH FACES

2 S7.04 SHEATHED SHEARWALL SCHEDULE
NOT TO SCALE

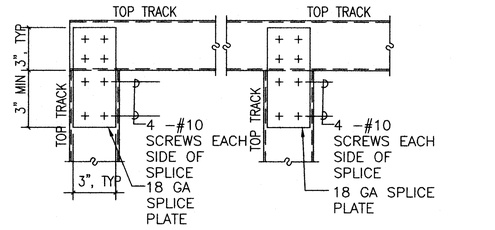
FASTENING SCHEDULE		
MATERIALS	FASTENER	QUANTITY
STUD TO PLATE TRACK (BOTTOM)	3/4" #10 SCREWS LOW PROFILE PAN HEAD	1 AT EACH FLANGE
STUD TO PLATE TRACK (TOP)	3/4" #10 SCREWS LOW PROFILE PAN HEAD	1 AT EACH FLANGE
STUD TO TRACK (NESTED)	3/4" #10 SCREWS PAN HEAD	1 AT 12" OC THROUGH FLANGE
STUD TO STUD (BACK TO BACK)	3/4" #10 SCREWS PAN HEAD	1 AT 12" OC THROUGH WEB
STUD TO STUD (AT WALL INTERSECTION)	3/4" #10 SCREWS PAN HEAD	1 AT 24" OC OR 1 AT EACH BLOCKING
LINTEL TO STUD	3/4 " #10 SCREWS PAN HEAD	QUANTITY AND SPACING AS PER DETAILS

NOTES:
1. LOW PROFILE PAN HEAD IS USED IN LIEU OF PAN HEAD WHERE LEAST PROJECTION OF FASTENER IS DESIRED.
2. S-7 POINT SHALL SUBSTITUTE S-12 WHEN ATTACHING .07" MEMBERS TOGETHER.

3 S7.04 TYPICAL COLD-FORMED STEEL FASTENING SCHEDULE
NOT TO SCALE



5 S7.04 TYPICAL STUDWALL SILL DETAIL
NOT TO SCALE



6 S7.04 TYPICAL STUDWALL TOP TRACK CORNER & INTERSECTION DETAIL
NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

RON E. IWAMOTO LICENSED PROFESSIONAL ENGINEER No. 8871-S HAWAII, U.S.A.

4/30/16
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

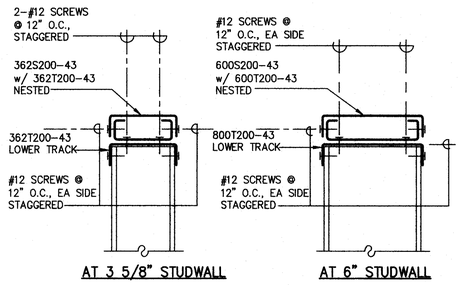
TYPICAL DETAILS

DESIGNED:	RI	SUBMITTED:	
DRAWN:	IB	DATE:	03/15/2016
CHECKED:	RI	SCALE:	

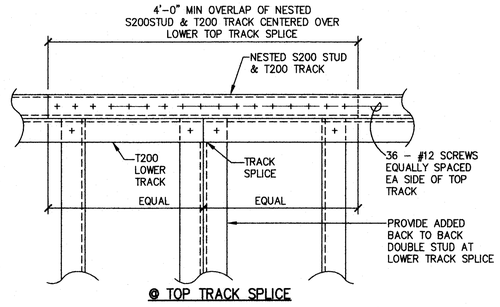
APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

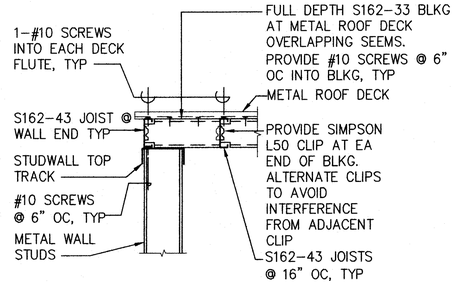
DRAWING NO. S7.04

JOB NO. J43CM74A

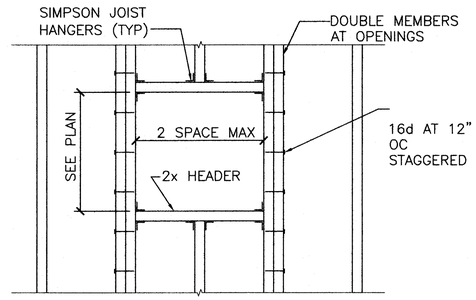


1 S7.05 **TYPICAL STUDWALL TOP TRACK DETAIL**
NOT TO SCALE

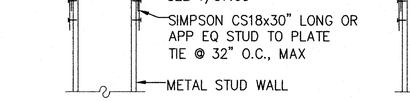


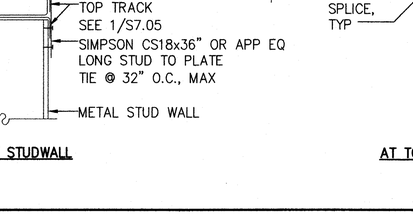


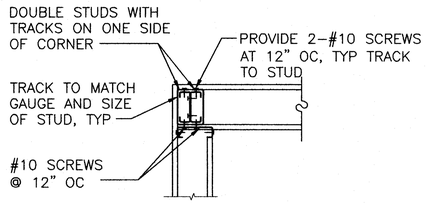
2 S7.05 **TYPICAL ROOF JOIST TO STUDWALL DETAIL**
NOT TO SCALE

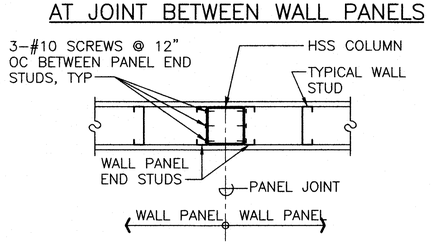


6 S7.05 **ROOF FRAMING OPENING**
NOT TO SCALE





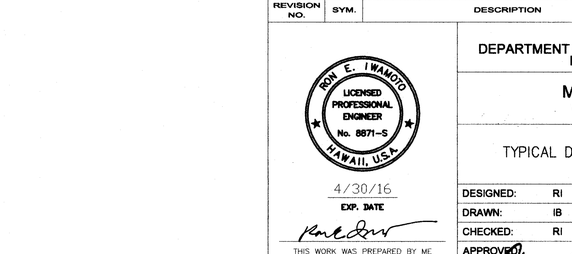




3 S7.05 **TYPICAL WALL STUD INTERSECTION/ END DETAIL**
NOT TO SCALE

SHEATHING NAILING			
TYPE	EDGE	BOUNDARIES	INTERMEDIATE
ROOF	8d AT 4"	8d AT 4"	8d AT 12"

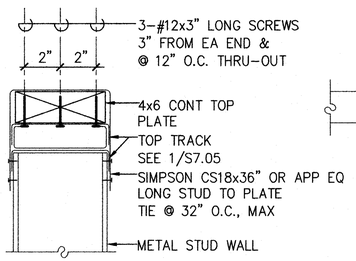
5 S7.05 **PLYWOOD ROOF SHEATHING NAILING**
NOT TO SCALE



AREA	GROSS UPLIFT
1	45 PSF

WIND UPLIFT DIAGRAM –PLAN

7 S7.05 **ROOF PLAN UPLIFT DIAGRAM**
NOT TO SCALE



4 S7.05 **TYPICAL TOP PLATE DETAIL**
SCALE: 3/4"= 1'–0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

TYPICAL DETAILS

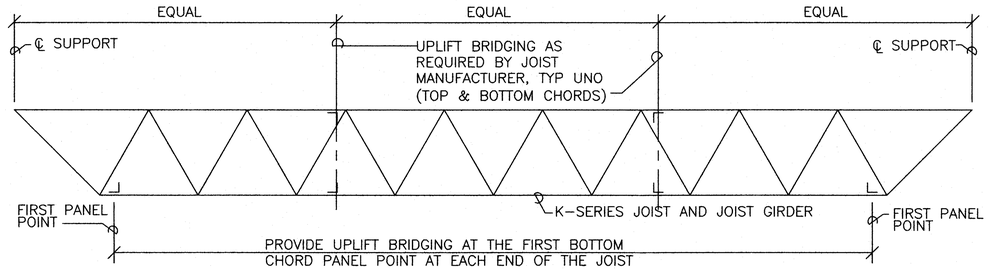
RON E. IWAMOTO LICENSED PROFESSIONAL ENGINEER No. 8871–S HAWAII, U.S.A.
4/30/16
EXP. DATE
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DESIGNED:	RI	SUBMITTED:	
DRAWN:	IB	DATE:	03/15/2016
CHECKED:	RI	SCALE:	

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

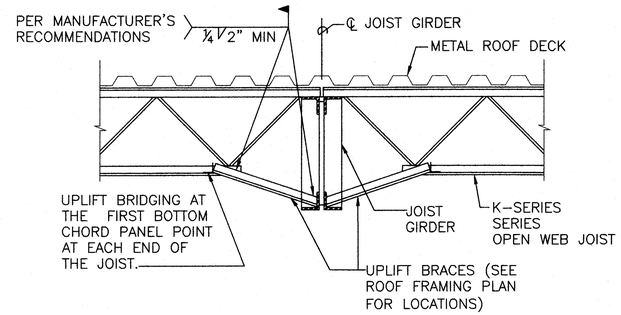
DRAWING NO. **S7.05**

JOB NO. J43CM74A



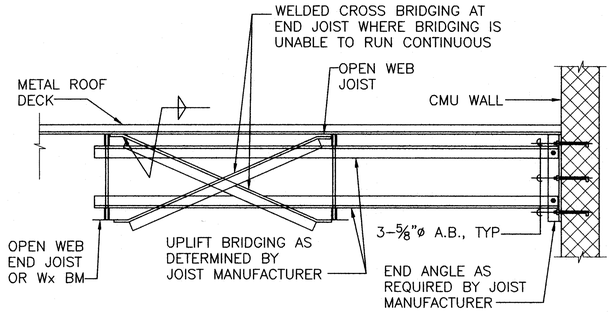
NOTES:
1. SEE 2/S7.06 FOR TYPICAL UPLIFT BRIDGING CONNECTION DETAIL.
2. JOIST MANUFACTURER SHALL DESIGN JOIST PROFILE UPLIFT BRIDGING, ANCHORS, AND CONNECTIONS, TYP.

1 S7.06 TYPICAL UPLIFT BRIDGING DETAIL
NOT TO SCALE



NOTES:
1. JOIST MANUFACTURER SHALL DESIGN UPLIFT BRACES AS REQUIRED.
2. BRACES SHALL BE INSTALLED AFTER METAL DECK IS INSTALLED.

2 S7.06 TYPICAL UPLIFT BRACING DETAIL
NOT TO SCALE



3 S7.06 TYPICAL UPLIFT BRIDGING CONNECTION DETAIL
NOT TO SCALE

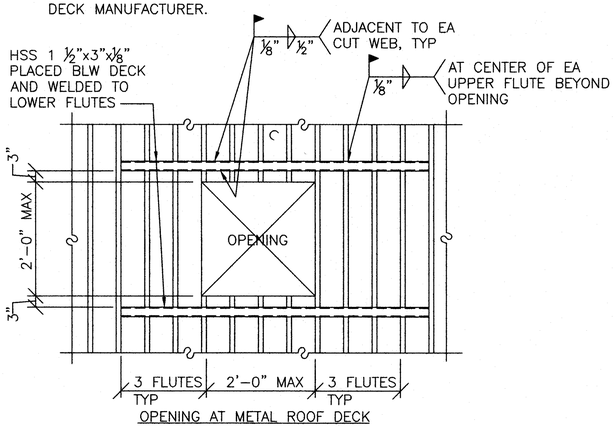
METAL ROOF DECK SCHEDULE

TYPE GAGE	MINIMUM SECTION PROPERTIES			SECTION
	I in⁴/FT	+Sin³/FT	−Sin³/FT	
1 ½" VERCO/ HSB-36 20 GA ROOF DECK	0.216	0.235	0.248	1½"

NOTES:
1. SEE PLANS FOR EXTENT AND ORIENTATION OF METAL DECK.
2. SEE 6/S7.06 FOR METAL DECK FASTENING TO SUPPORTS.

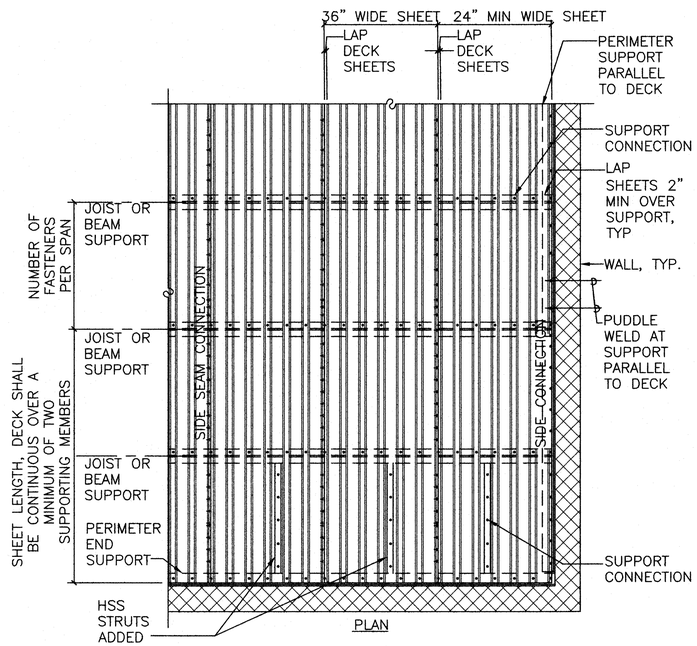
4 S7.06 METAL ROOF DECK SCHEDULE
NOT TO SCALE

NOTES:
1. REINFORCING IS NOT REQUIRED FOR HOLES LESS THAN 6 INCHES IN DIAMETER AND CUTTING NO MORE THAN 1 WEB.
2. FRAMING TO BE FURNISHED AND INSTALLED BY DECK MANUFACTURER.

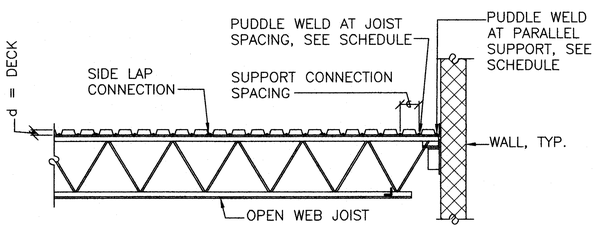


OPENING AT METAL ROOF DECK

5 S7.06 TYPICAL OPENING AT ROOF DECK
NOT TO SCALE



DIAPHRAGM CONNECTION		
AT SUPPORT PER 36" SHEET WIDTH	SIDE LAP CONNECTION	AT SUPPORT PARALLEL TO DECK
5-⅝"ø PUDDLE WELDS	1½" TOP SEAM WELD @ 24" O.C.	⅝"ø PUDDLE WELDS @ 12"



6 S7.06 TYPICAL METAL ROOF DECK FASTENING SCHEDULE
NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

TYPICAL DETAILS

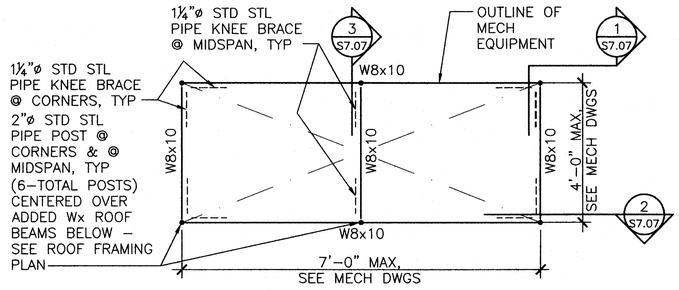
RON E. IWAMOTO LICENSED PROFESSIONAL ENGINEER No. 8871-S HAWAII, U.S.A.
4/30/16
EXP. DATE
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DESIGNED:	RI	SUBMITTED:	
DRAWN:	IB	DATE:	03/15/2016
CHECKED:	RI	SCALE:	

APPROVED:
CHIEF ENGINEER
MAR 23 2016
DATE

DRAWING NO. S7.06

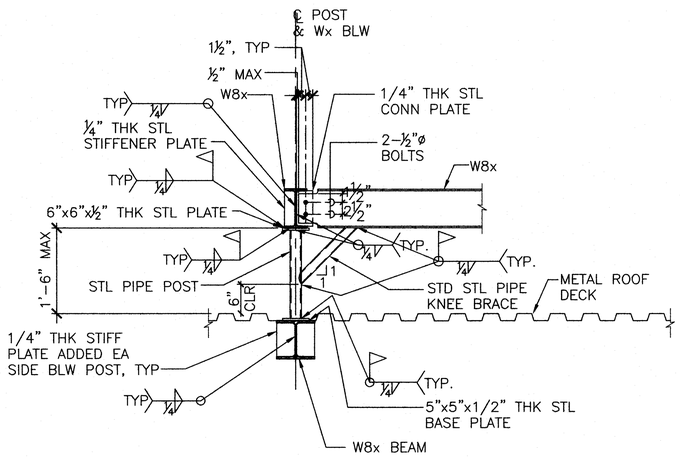
JOB NO. J43CM74A SHEET NO. 110 OF 152 SHEETS



TYPICAL MECH EQUIPMENT SUPPORT FRAMING PLAN

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

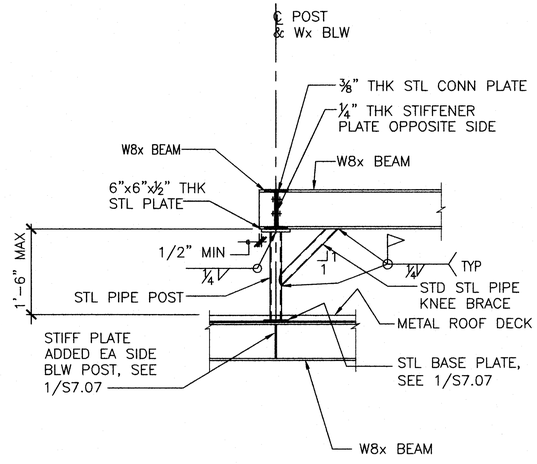
NOTE: STD STL PIPE KNEE BRACE IN OPP DIRECTION NOT SHOWN FOR CLARITY



1 S7.07 SECTION

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

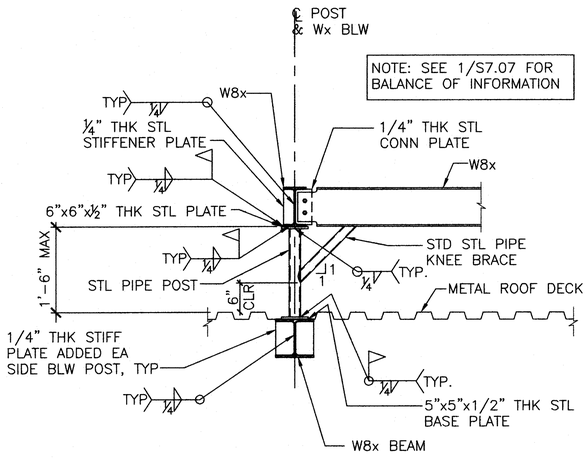
NOTE: STD STL PIPE KNEE BRACE IN OTHER DIRECTION NOT SHOWN FOR CLARITY



2 S7.07 SECTION

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

NOTE: STD STL PIPE KNEE BRACE IN OTHER DIRECTION NOT SHOWN FOR CLARITY



3 S7.07 SECTION

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

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

TYPICAL MECH EQUIP SUPPORT FRAMING PLAN & SECTIONS

RON E. IWAMOTO LICENSED PROFESSIONAL ENGINEER No. 8871-S HAWAII, U.S.A.

4/30/16
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DESIGNED:	RI	SUBMITTED:	
DRAWN:	IB	DATE:	03/15/2016
CHECKED:	RI	SCALE:	
APPROVED: CHIEF ENGINEER		MAR 2 3 2016 DATE	DRAWING NO. S7.07

JOB NO. J43CM74A

GENERAL NOTES:

1. CONFORM TO ALL REQUIREMENTS OF THE BUILDING, PLUMBING, AND ELECTRICAL CODES OF MAUI COUNTY, STATE OF HAWAII HEALTH REGULATIONS, FIRE DEPARTMENT REGULATIONS, MANUFACTURER'S RECOMMENDATIONS AND OTHER APPLICABLE REGULATIONS.
2. EXAMINE ALL PROJECT PLANS AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND THE EXTENT OF REMOVAL, RELOCATION AND/OR NEW WORK PRIOR TO BIDDING. NOTIFY AND COORDINATE WITH THE ENGINEER FOR ANY MAJOR DEVIATIONS OR DISCREPANCIES DISCOVERED IN THE PLANS AND SPECIFICATIONS DUE TO UNFORESEEN OR VARYING FIELD CONDITIONS.
3. INSTALLATION SHALL BE GUARANTEED TO BE FREE FROM DEFECTS FOR ONE (1) YEAR FROM FINAL DATE OF ACCEPTANCE OF THE PROJECT AS A WHOLE.
4. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO BID AND CONSTRUCTION.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING LINE SIZES, CONDITIONS, AND INVERTS PRIOR TO BID AND CONSTRUCTION.
6. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER THE COMPLETE INSTALLATION OF SYSTEMS TO FUNCTION AS DESCRIBED AND SPECIFIED. THE OMISSION OF REFERENCE TO ANY NECESSARY ITEM OF LABOR OR MATERIAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH LABOR AND MATERIAL AT NO ADDITIONAL COST TO THE STATE.
7. PAY FOR ALL PERMITS AND APPLICATIONS.
8. CAULK ALL PENETRATIONS WATERTIGHT. PROVIDE ALL CUTTING, PATCHING, AND RESTORING OF EXISTING SURFACES TO MATCH ORIGINAL SURFACE FINISHES. SPOT PAINT TO MATCH EXISTING SURFACES/COLOR.
9. PREPARE SIX (6) SETS OF SHOP DRAWINGS SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF WORK. NO REPRODUCTIONS OF ANY KIND OF THE CONTRACT DOCUMENTS SHALL BE ACCEPTABLE AS SHOP DRAWINGS. PROVIDE ONE (1) SET OF REPRODUCIBLE AS-BUILT DRAWINGS SHOWING THE ACTUAL INSTALLED CONDITIONS AND SUBMIT TO THE STATES UPON COMPLETION OF WORK.
10. ALL EQUIPMENT AND FIXTURES SHALL BE CAPABLE OF FITTING INTO THE SPACES ALLOTTED WHILE MEETING THE MANUFACTURER'S RECOMMENDED ACCESS REQUIREMENTS. REVIEW ALL SPACES WHERE EQUIPMENT AND FIXTURES ARE TO BE INSTALLED PRIOR TO ORDERING OF ITEMS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION, MAINTENANCE, AND OPERATION OF THE EQUIPMENT AND FIXTURES.
11. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW EVERY EXACT DETAIL OF PIPING AND DUCTWORK. PROVIDE OFFSETS AS NECESSARY TO AVOID LOCAL OBSTRUCTIONS OR INTERFERENCES WITH OTHER TRADES. REVIEW ALL PIPING AND DUCT RUNS PRIOR TO FABRICATION AND IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY INTERFERENCES AND/OR LACK OF ADEQUATE CLEARANCES.
12. SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, MARK SUCH CHANGES ON THE AS-BUILT DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, SUBMIT SHOP DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ARCHITECT/ENGINEER FOR REVIEW/APPROVAL PRIOR TO PROCEEDING WITH WORK.
13. COORDINATE ALL WORK WHICH WILL AFFECT AREAS WITH CONTRACTING OFFICER. SCHEDULE OFF-HOUR WORK WHEN REQUIRED TO MINIMIZE DISRUPTIONS.
14. COORDINATE ALL SWITCH, THERMOSTAT, FIRE EXTINGUISHER, ETC. LOCATIONS WITH USER/ENGINEER PRIOR TO INSTALLATION TO AVOID INTERFERENCES WITH PAINTING, BULLETIN BOARDS, FURNITURE, ETC. ANY ITEM NOT PROPERLY COORDINATED SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE STATE.
15. ALL STEEL SHALL BE HOT DIPPED GALVANIZED. GALVANIZED STEEL EXPOSED TO WEATHER SHALL HAVE WEATHER PROOF PAINT TO MATCH SURFACES. PROVIDE TWO EXTRA COATS OF EPOXY PAINT.
16. ALL ELECTRICAL AND CONTROL WIRING SHALL BE IN CONDUIT. PROVIDE GALVANIZED STEEL PIPE CONDUIT FOR CONDUIT EXPOSED TO WEATHER.
17. ALL SWITCHES, TIMECLOCKS, THERMOSTATS, AND CONTROL ITEMS SHALL BE ADA ACCESSIBLE AND SHALL BE MOUNTED AT 44" AFF AS PER ADA REQUIREMENTS OR ACCORDING TO STATE'S INSTRUCTIONS.
18. COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCES AND DELAYS.
19. SEISMICALLY BRACE ALL EQUIPMENT, PIPING, AND DUCTWORK IN ACCORDANCE WITH THE CURRENT BUILDING CODE AND THERE RESPECTIVE SEISMIC ZONE LOCATIONS.
20. TONE AND LOCATE ALL UTILITY LINES OR OTHER INTERFERENCES IN AREAS OF PROPOSED TRENCH WORK PRIOR TO START OF EXCAVATION. REPAIR OR PAY FOR ALL DAMAGES TO EXISTING UTILITIES.
21. PROVIDE DIELECTRIC UNIONS OR SEPARATIONS AT ALL DISSIMILAR METALS. PROVIDE UNIONS AFTER ALL SHUTOFF VALVES.
22. PROVIDE ACCESS PANELS FOR ALL ITEMS UNDER THIS SECTION REQUIRING SERVICING, INSPECTION, MAINTENANCE, AND ADJUSTMENT.
23. PROVIDE ESCUTCHEON PLATES AT ALL EXPOSED WALL PENETRATIONS IN FINISHED AREAS, EXTERIOR WALL, ETC.
24. ALL PENETRATIONS THRU EXISTING WALLS, FOUNDATIONS, AND FLOOR SLABS SHALL BE IN TOTAL COMPLIANCE WITH ARCHITECTURAL/STRUCTURAL PROCEDURES AND DRAWINGS.
25. ALL PENETRATIONS THRU RATED WALLS AND CEILINGS SHALL BE EQUIPPED WITH APPROVED FIRE STOPPING AND/OR FIRE & SMOKE DAMPERS.
26. DRAWING FILES WILL NOT BE AVAILABLE TO CONTRACTORS FOR SHOP DRAWINGS OR ANY OTHER PURPOSE.
27. PROVIDE ISOLATION VALVES ON PIPING BRANCH LINES AND VOLUME DAMPERS ON DUCTWORK BRANCH LINES WHETHER SHOWN ON THE DRAWINGS OR NOT.
28. CONTRACTOR SHALL SCHEDULE, TAG, AND LABEL ALL VALVES AND PIPING. ALL PIPING SHALL ALSO BE LABELED WITH DIRECTION OF FLOW.
29. ALL EXTERIOR NUTS, BOLTS, SCREWS, WASHERS, FASTENERS, SUPPORTS STRAPS, ETC. SHALL BE TYP 304 STAINLESS STEEL.

MECHANICAL LEGEND

SYMBOL	ABBREV.	DESCRIPTION
GENERAL		
	AP	ACCESS PANEL
	DN	DOWN
	EA	EACH
(E)	EXIST'G	EXISTING (TO REMAIN)
(N)		NEW
(R)		REMOVE
(RE)		RELOCATE
	POC	POINT OF CONNECTION
	POR	POINT OF REMOVAL
	(TYP)	TYPICAL
	W/	WITH
HVAC		
	ACCU	AIR COOLED CONDENSING UNIT
— CD —	CD	CONDENSATE DRAIN
	CFM	CUBIC FEET PER MINUTE
	DT	DUCT
⊘	EAR	EXHAUST AIR REGISTER
	EXH	EXHAUST
	EF	EXHAUST FAN
	FCU	FAN COIL UNIT
~		FLEX DUCTWORK
	NK	NECK
	OA	OUTSIDE AIR
	OAG	OUTSIDE AIR GRILL
⌐	OBVD	OPPOSED BLADE VOLUME DAMPER
⊘	RAR	RETURN AIR REGISTER
	RAR	RETURN AIR REGISTER
	RL	REFRIGERANT LIQUID
	RS	REFRIGERANT SUCTION
⊠	SAD	SUPPLY AIR DIFFUSER
⌐	TV	TURNING VANES
⌐	VD	VOLUME DAMPER

SYMBOL	ABBREV.	DESCRIPTION
PLUMBING		
	ADF	ACCESSIBLE DRINKING FOUNTAIN
	ALAV	ACCESSIBLE LAVATORY
	AWC	ACCESSIBLE WATER CLOSET
—⊕	COTG	CLEANOUT TO GRADE
— · —	CW	COLD WATER
	EWH	ELECTRIC WATER HEATER
—⊕	FCO	FLOOR CLEANOUT
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	GPD	GALLONS PER DAY
	GPM	GALLONS PER MINUTE
	HB	HOSE BIBB
— ·· —	HW	HOT WATER
	INV	INVERT
	LAV	LAVATORY
	M/S	MOP SINK
———	S	SANITARY/WASTE
———	SD	STORM
	SK	SINK
⋈	SOV	SHUT OFF VALVE
	S/S	SERVICE SINK
	TP	TRAP PRIMER
	U/C	UNDERCUT DOOR
	UR	URINAL
- - - -	V	VENT
J|L	VTR	VENT THRU ROOF
	VB	VACUUM BREAKER
	WC	WATER CLOSET
	WCO	WALL CLEANOUT
	WHA	WATER HAMMER ARRESTER
	FE	FIRE EXTINGUISHER

COUNTY OF MAUI
MAUI COUNTY CODE, CHAPTER 16.16A ENERGY CODE

TO THE BEST OF MY KNOWLEDGE, THIS PROJECT'S DESIGN SUBSTANTIALLY CONFORMS TO THE ENERGY CODE FOR:

✓ MECHANICAL COMPONENT SYSTEMS

SIGNATURE: _____ DATE: 3/15/2016

NAME: ROSS R. TANAKA

TITLE: VICE PRESIDENT

LICENSE NO.: 9301-M

ROSS R. TANAKA LICENSED PROFESSIONAL ENGINEER No. 9301-M HAWAII, U.S.A.

Expiration Date: 4/30/16

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

ROSS R. TANAKA LICENSED PROFESSIONAL ENGINEER No. 9301-M HAWAII, U.S.A.

4/30/2016
EXP. DATE

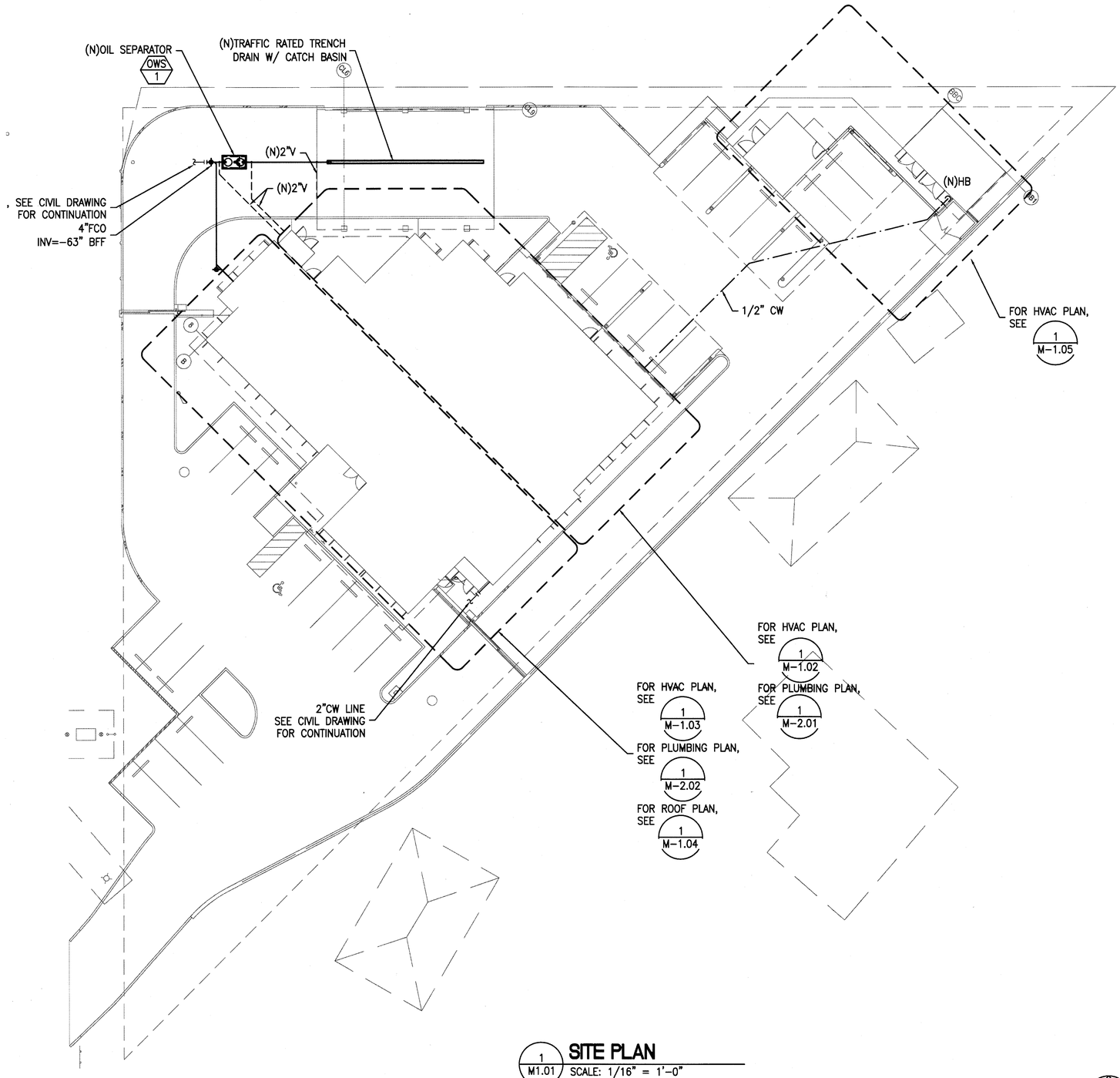
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

GENERAL NOTES, LEGEND

DESIGNED:	RRT	SUBMITTED:	
DRAWN:	MEI	DATE:	03/15/16
CHECKED:	RRT	SCALE:	
APPROVED:		DRAWING NO.	M1.00
CHIEF ENGINEER	MAR 2 3 2016 DATE		



1 M1.01 **SITE PLAN**
SCALE: 1/16" = 1'-0"

NORTH

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

ROSS R. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 9301-M
HAWAII, U.S.A.

4/30/2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

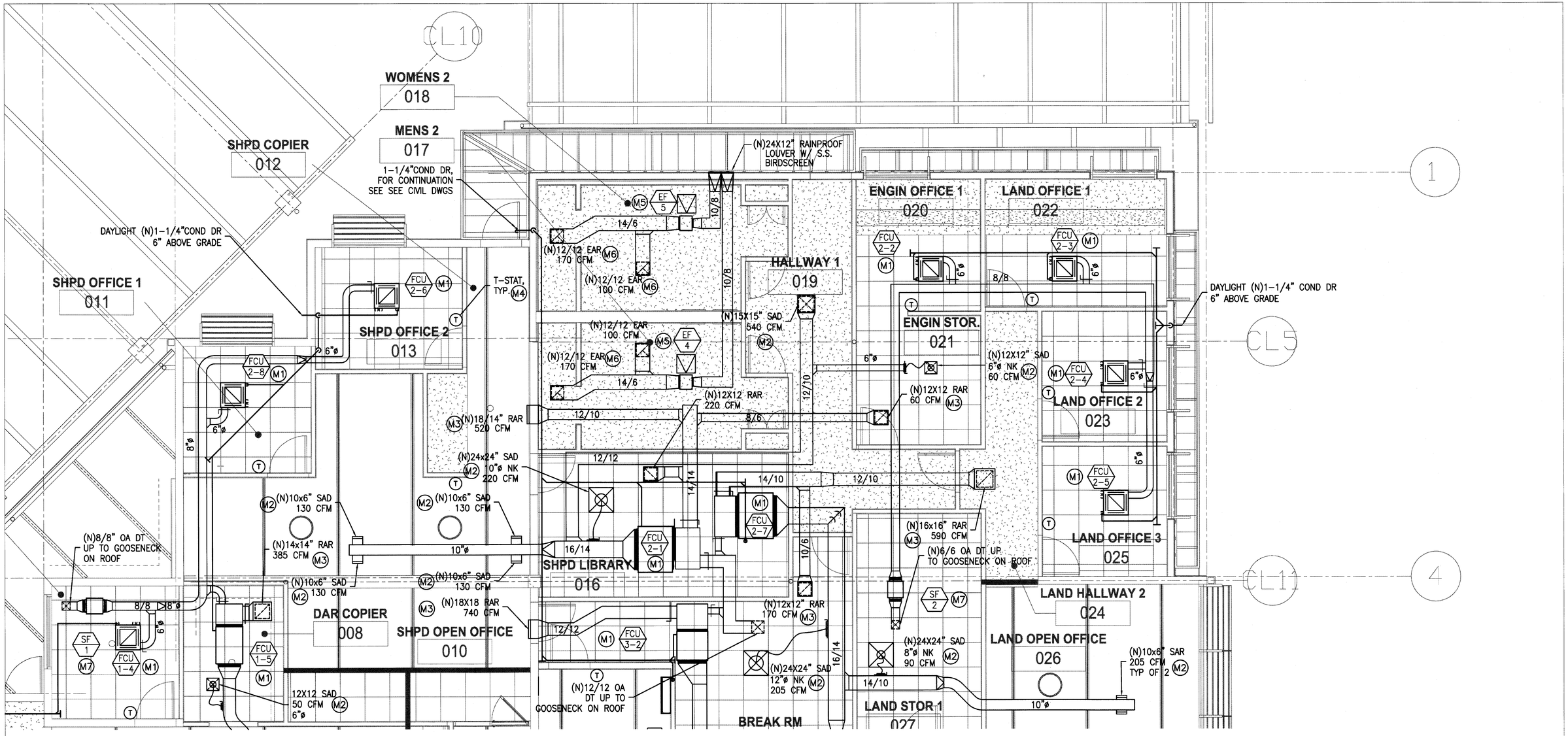
MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

SITE PLAN

DESIGNED:	RRT	SUBMITTED:	
DRAWN:	MEI	DATE:	03/15/16
CHECKED:	RRT	SCALE:	

APPROVED:
CHIEF ENGINEER — MAR 2 3 2016 DATE

DRAWING NO. M1.01



1 / M1.02 PARTIAL MECHANICAL PLAN

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

NEW MECHANICAL WORK NOTES:

(M1) PROVIDE NEW FAN COIL UNIT AT LOCATION SHOWN. PROVIDE NEW CONDENSATE DRAIN, REFRIGERANT PIPING, AND DUCTWORK ETC. AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING.

(M2) PROVIDE NEW SUPPLY AIR DIFFUSER AT LOCATION SHOWN. PROVIDE SUPPLY DUCTWORK AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING.

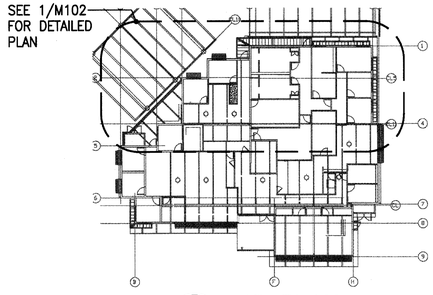
(M3) PROVIDE NEW RETURN AIR REGISTER AT LOCATION SHOWN. PROVIDE RETURN DUCTWORK AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING.

(M4) PROVIDE NEW THERMOSTAT AND CONTROL WIRING AS REQUIRED TO CONNECT TO FCU. MOUNT NEW THERMOSTAT AT 48" AFF. CONTRACTOR TO FIELD VERIFY WITH OWNER/ARCH. ON FINAL LOCATION.

(M5) PROVIDE NEW EXHAUST FAN COMPLETE. PROVIDE EXHAUST DUCTWORK AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING.

(M6) PROVIDE NEW EXHAUST AIR REGISTER AT LOCATION SHOWN. PROVIDE EXHAUST DUCTWORK AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING.

(M7) PROVIDE NEW SUPPLY FAN COMPLETE. PROVIDE OUTSIDE AIR SUPPLY DUCTWORK AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING.



2 / M1.02 KEY PLAN

SCALE: NTS

0 2' 4' 6' 8' 10' 12'

SCALE: 1/4" = 1'

NORTH

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

PARTIAL MECHANICAL PLAN

ROSS R. TANAKA LICENSED PROFESSIONAL ENGINEER No. 9301-M HAWAII, U.S.A.

4/30/2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

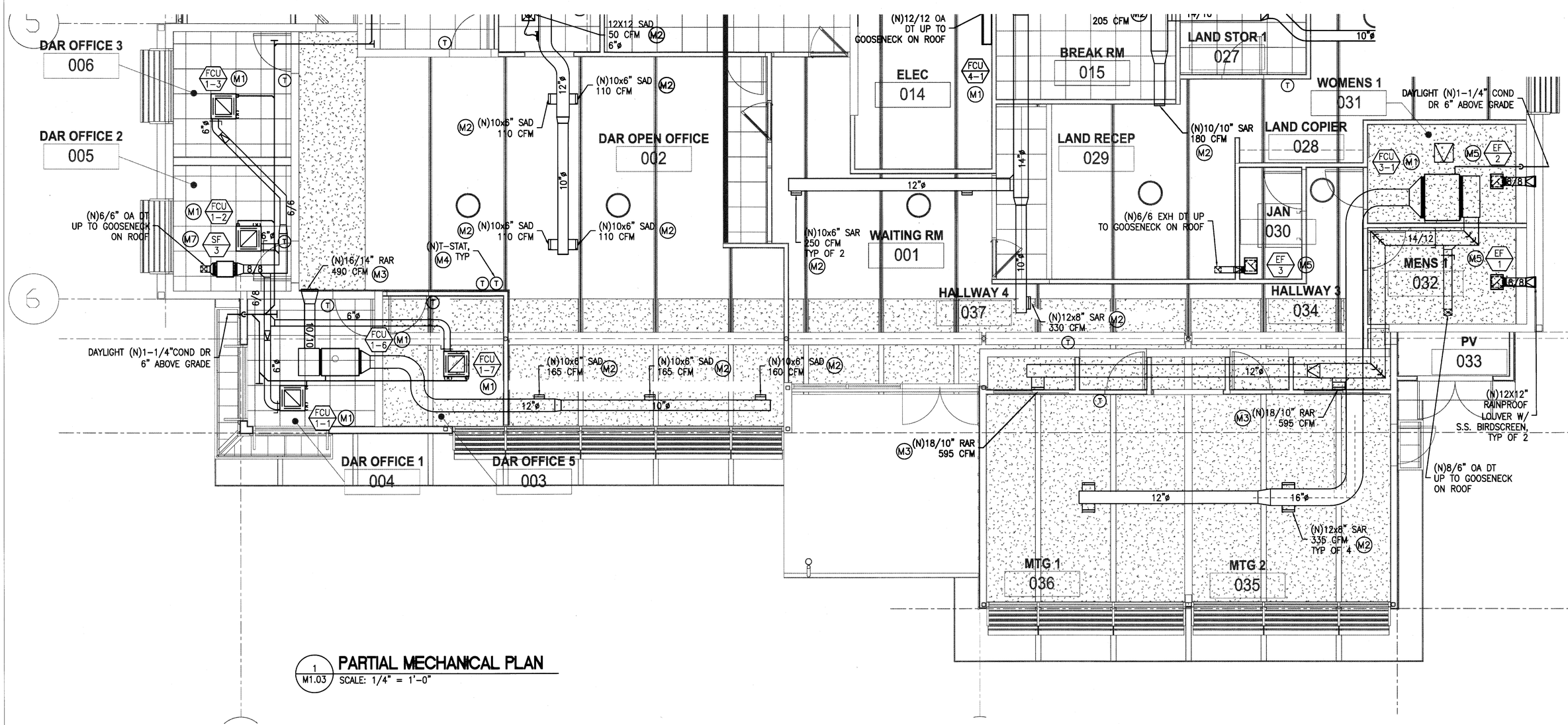
DESIGNED:	RRT	SUBMITTED:	
DRAWN:	MEI	DATE:	03/15/16
CHECKED:	RRT	SCALE:	

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. M1.02

JOB NO. J43CM74A

SHEET NO. 114 OF 152 SHEETS



1 / M1.03 **PARTIAL MECHANICAL PLAN**
SCALE: 1/4" = 1'-0"

NEW MECHANICAL WORK NOTES:

(M1) PROVIDE NEW FAN COIL UNIT AT LOCATION SHOWN. PROVIDE NEW CONDENSATE DRAIN, REFRIGERANT PIPING, AND DUCTWORK ETC. AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING.

(M2) PROVIDE NEW SUPPLY AIR DIFFUSER AT LOCATION SHOWN. PROVIDE SUPPLY DUCTWORK AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING.

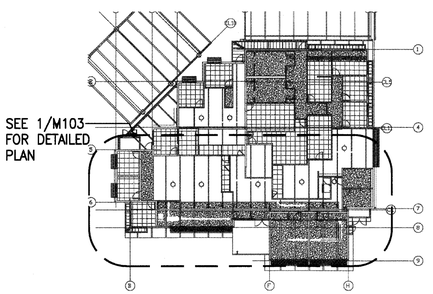
(M3) PROVIDE NEW RETURN AIR REGISTER AT LOCATION SHOWN. PROVIDE RETURN DUCTWORK AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING.

(M4) PROVIDE NEW THERMOSTAT AND CONTROL WIRING AS REQUIRED TO CONNECT TO FCU. MOUNT NEW THERMOSTAT AT 48" AFF. CONTRACTOR TO FIELD VERIFY WITH OWNER/ARCH. ON FINAL LOCATION.

(M5) PROVIDE NEW EXHAUST FAN COMPLETE. PROVIDE EXHAUST DUCTWORK AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING.

(M6) PROVIDE NEW EXHAUST AIR REGISTER AT LOCATION SHOWN. PROVIDE EXHAUST DUCTWORK AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING.

(M7) PROVIDE NEW SUPPLY FAN COMPLETE. PROVIDE OUTSIDE AIR SUPPLY DUCTWORK AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING.



2 / M1.03 **KEY PLAN**
SCALE: NTS

0 2' 4' 6' 8' 10' 12'
SCALE: 1/4" = 1'

NORTH

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

PARTIAL MECHANICAL PLAN

ROSS R. TANAKA LICENSED PROFESSIONAL ENGINEER No. 9301-M HAWAII, U.S.A.

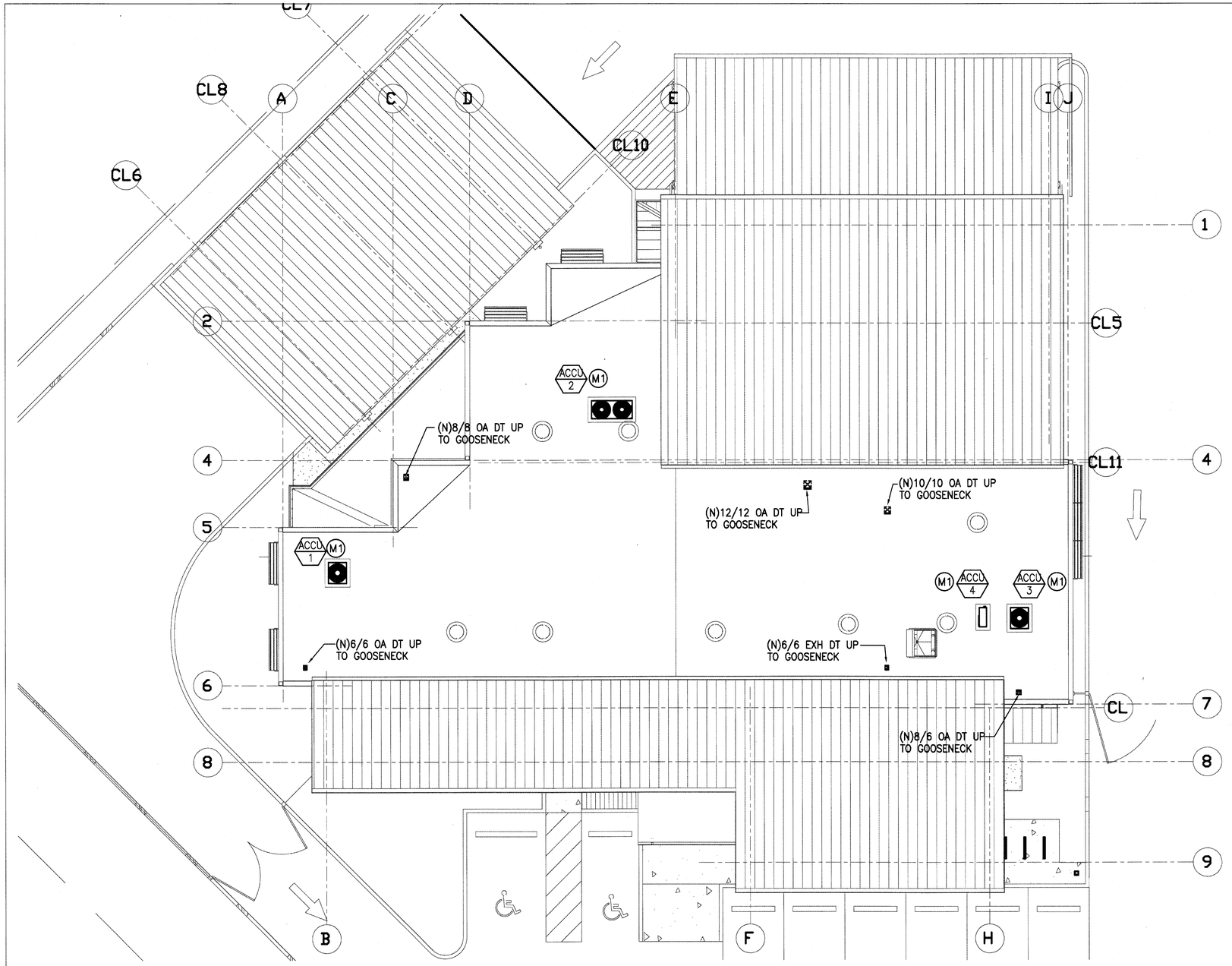
4/30/2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DESIGNED:	RRT	SUBMITTED:	
DRAWN:	MEI	DATE:	03/15/16
CHECKED:	RRT	SCALE:	

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. M1.03



1 / M1.03 **MECHANICAL ROOF PLAN**
SCALE: 1/8" = 1'-0"

NEW MECHANICAL WORK NOTES:

(M1) PROVIDE NEW AIR COOLED CONDENSING UNIT ON ROOF AT LOCATION SHOWN. PROVIDE NEW CONCRETE PAD ETC. PROVIDE NEW REFRIGERANT PIPING AS REQUIRED. CONTRACTOR TO FIELD VERIFY. PATCH/REPAIR TO MATHC EXISTING.

0 4' 8' 12' 16' 20' 24'
SCALE: 1/8" = 1'

NORTH

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

ROSS R. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 9301-M
HAWAII, U.S.A.

4/30/2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

MECHANICAL ROOF PLAN

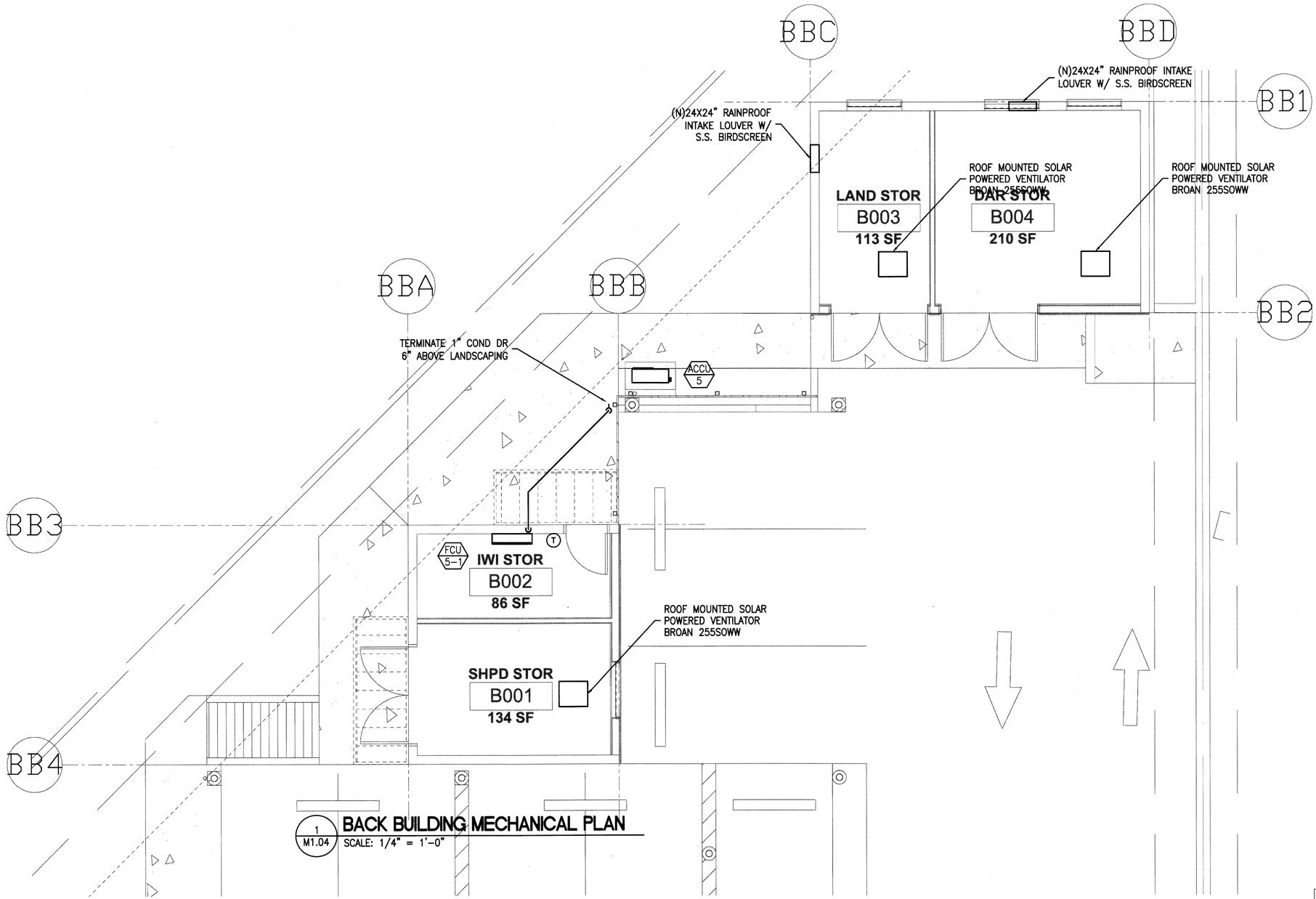
DESIGNED:	RRT	SUBMITTED:	
DRAWN:	MEI	DATE:	03/15/16
CHECKED:	RRT	SCALE:	

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. M1.04

JOB NO. J43CM74A

SHEET NO. 116 OF 152 SHEETS



1 M1.04 BACK BUILDING MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

0 2' 4' 6' 8' 10' 12'
SCALE: 1/4" = 1'

NORTH

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

ROSS R. TANAKA LICENSED PROFESSIONAL ENGINEER No. 9301-M HAWAII, U.S.A.

4/30/2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

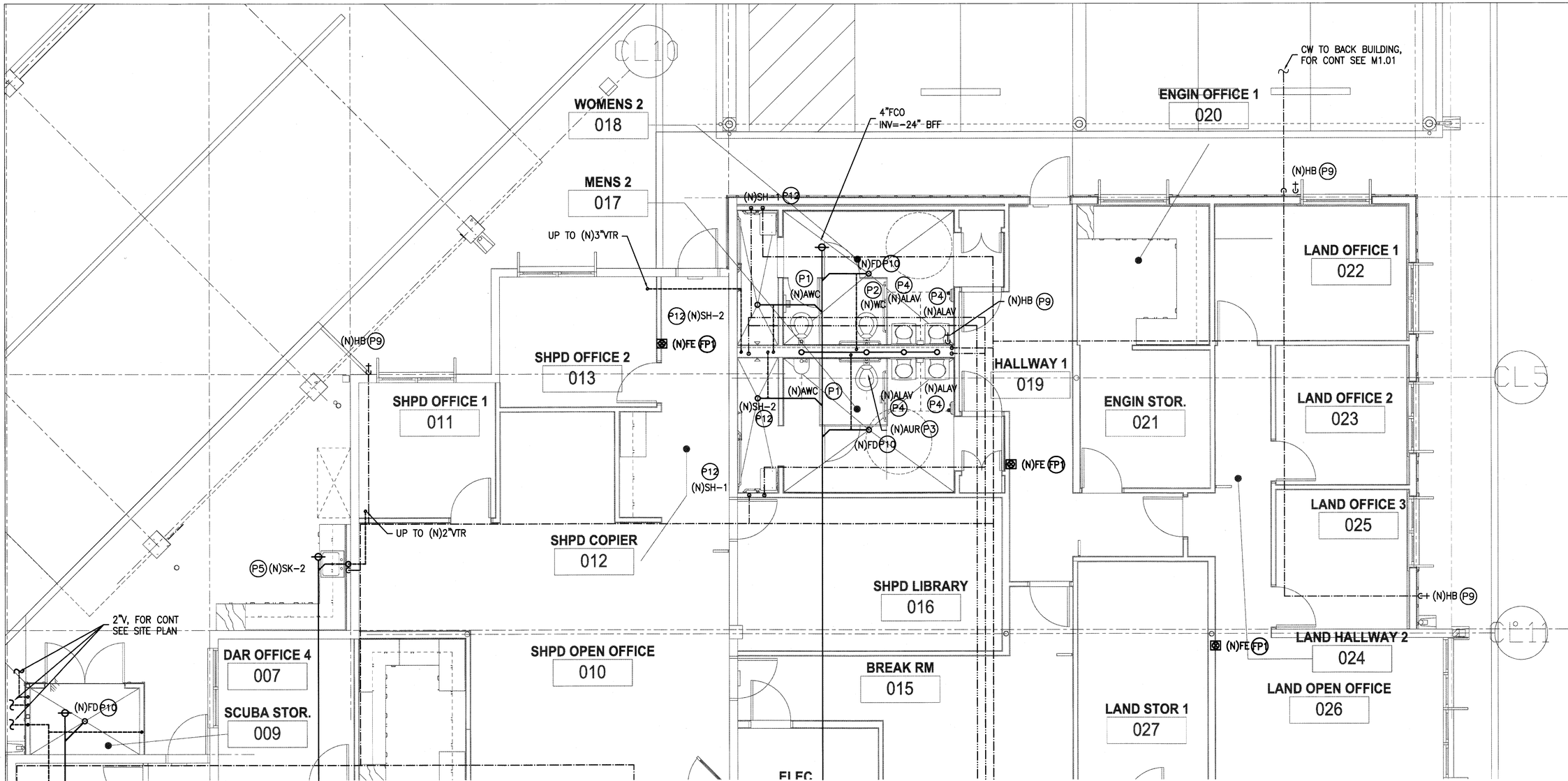
MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

BACK BUILDING
MECHANICAL PLAN

DESIGNED:	RRT	SUBMITTED:	
DRAWN:	MEI	DATE:	03/15/16
CHECKED:	RRT	SCALE:	
APPROVED: CHIEF ENGINEER		MAR 2 3 2016 DATE	DRAWING NO. M1.05

JOB NO. J43CM74A

SHEET NO. 117 OF 152 SHEETS



1 M2.01 PARTIAL PLUMBING PLAN

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

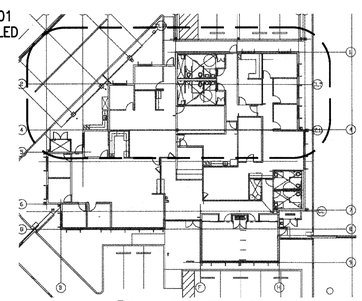
NEW PLUMBING WORK NOTES:

- P1 PROVIDE NEW ACCESSIBLE WATER CLOSET COMPLETE. PROVIDE NEW WASTE, WATER AND VENT PIPING AS REQUIRED. INSTALL ACCORDING TO ADA GUIDELINES.
- P2 PROVIDE NEW WATER CLOSET COMPLETE. PROVIDE NEW WASTE, WATER AND VENT PIPING AS REQUIRED.
- P3 PROVIDE NEW ACCESSIBLE URINAL COMPLETE. PROVIDE NEW WASTE, WATER AND VENT PIPING AS REQUIRED. INSTALL ACCORDING TO ADA GUIDELINES.
- P4 PROVIDE NEW ACCESSIBLE LAVATORY COMPLETE. PROVIDE NEW WASTE, WATER AND VENT PIPING AS REQUIRED. INSTALL ACCORDING TO ADA GUIDLINES.
- P5 PROVIDE NEW SINK COMPLETE. PROVIDE NEW WASTE, WATER AND VENT PIPING AS REQUIRED.
- P6 PROVIDE NEW MOP SINK COMPLETE. PROVIDE NEW WASTE, VENT AND WATER PIPING AS REQUIRED. CONTRACTOR TO FIELD VERIFY FINAL LOCATION OF FAUCET.
- P7 PROVIDE HOT WATER RECIRCULATING PUMP AT LOCATION SHOWN. PROVIDE NEW WATER PIPING AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING.
- P8 PROVIDE ELECTRIC WATER HEATER COMPLETELY. PROVIDE NEW WATER PIPING AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING. T&P TO MOP SINK.
- P9 PROVIDE NEW HOSE BIBB COMPLETE. PROVIDE NEW WATER VENT PIPING AS REQUIRED.
- P10 PROVIDE FLOOR DRAIN WITH TRAP PRIMER COMPLETE PROVIDE NEW WASTE, VENT AND WATER PIPING AS REQUIRED.
- P11 PROVIDE ACCESSIBLE WATER FOUNTAIN COMPLETE PROVIDE NEW WASTE, VENT AND WATER PIPING AS REQUIRED. MOUNT PER ADA REQUIREMENTS.
- P12 PROVIDE SHOWER COMPLETE PROVIDE NEW WASTE, VENT AND WATER PIPING AS REQUIRED.

NEW FIRE PROTECTION WORK NOTES:

- FP1 (N)10 LB CAPACITY FE W/ SEMI-RECESSED CABINET, 4A:80B:C UL RATING. FINAL LOCATION SHALL BE IN ACCORDANCE WITH NFPA 10.

SEE 1/M201 FOR DETAILED PLAN



2 M2.01 KEY PLAN

SCALE: NTS

0 2' 4' 6' 8' 10' 12'

SCALE: 1/4" = 1'

NORTH

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

ROSS R. TANAKA LICENSED PROFESSIONAL ENGINEER No. 9301-M HAWAII, U.S.A.

4/30/2016 EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

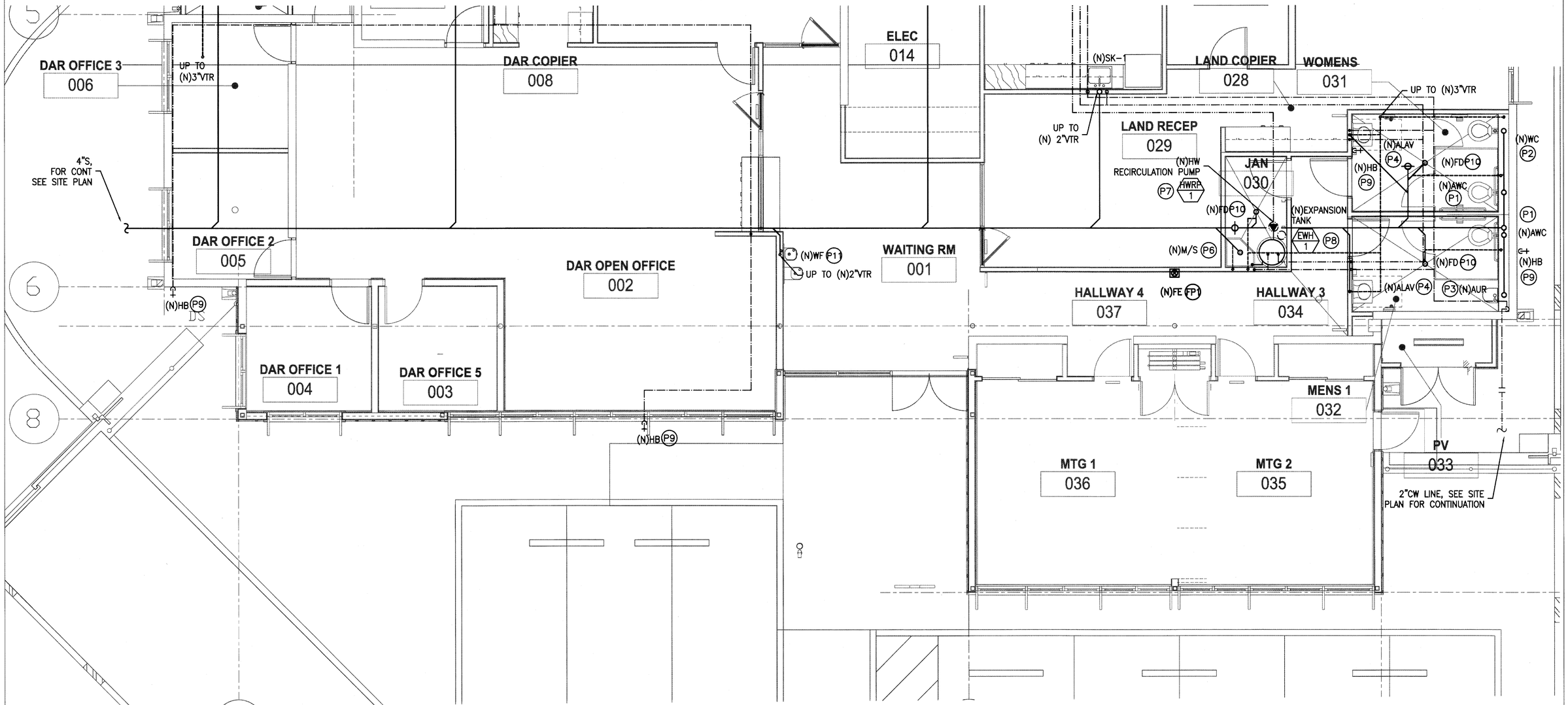
MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

PARTIAL PLUMBING PLAN

DESIGNED:	RRT	SUBMITTED:	
DRAWN:	MEI	DATE:	03/15/16
CHECKED:	RRT	SCALE:	

APPROVED: CHIEF ENGINEER — MAR 2 3 2016 DATE

DRAWING NO. M2.01



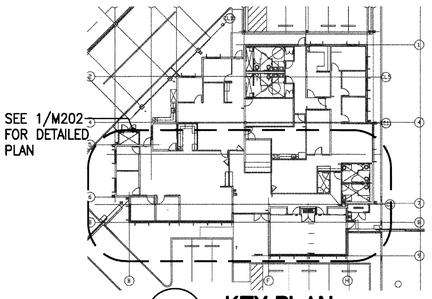
1 / M2.02 **PARTIAL PLUMBING PLAN**
SCALE: 1/4" = 1'-0"

NEW PLUMBING WORK NOTES:

- (P1) PROVIDE NEW ACCESSIBLE WATER CLOSET COMPLETE. PROVIDE NEW WASTE, WATER AND VENT PIPING AS REQUIRED. INSTALL ACCORDING TO ADA GUIDELINES.
- (P2) PROVIDE NEW WATER CLOSET COMPLETE. PROVIDE NEW WASTE, WATER AND VENT PIPING AS REQUIRED.
- (P3) PROVIDE NEW ACCESSIBLE URINAL COMPLETE. PROVIDE NEW WASTE, WATER AND VENT PIPING AS REQUIRED. INSTALL ACCORDING TO ADA GUIDELINES.
- (P4) PROVIDE NEW ACCESSIBLE LAVATORY COMPLETE. PROVIDE NEW WASTE, WATER AND VENT PIPING AS REQUIRED. INSTALL ACCORDING TO ADA GUIDLINES.
- (P5) PROVIDE NEW SINK COMPLETE. PROVIDE NEW WASTE, WATER AND VENT PIPING AS REQUIRED.
- (P6) PROVIDE NEW MOP SINK COMPLETE. PROVIDE NEW WASTE, VENT AND WATER PIPING AS REQUIRED. CONTRACTOR TO FIELD VERIFY FINAL LOCATION OF FAUCET.
- (P7) PROVIDE HOT WATER RECIRCULATING PUMP AT LOCATION SHOWN. PROVIDE NEW WATER PIPING AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING.
- (P8) PROVIDE ELECTRIC WATER HEATER COMPLETELY. PROVIDE NEW WATER PIPING AS REQUIRED. PATCH/REPAIR TO MATCH EXISTING. T&P TO MOP SINK.
- (P9) PROVIDE NEW HOSE BIBB COMPLETE. PROVIDE NEW WATER VENT PIPING AS REQUIRED.
- (P10) PROVIDE FLOOR DRAIN WITH TRAP PRIMER COMPLETE PROVIDE NEW WASTE, VENT AND WATER PIPING AS REQUIRED.
- (P11) PROVIDE ACCESSIBLE WATER FOUNTAIN COMPLETE PROVIDE NEW WASTE, VENT AND WATER PIPING AS REQUIRED. MOUNT PER ADA REQUIREMENTS.
- (P12) PROVIDE SHOWER COMPLETE PROVIDE NEW WASTE, VENT AND WATER PIPING AS REQUIRED.

NEW FIRE PROTECTION WORK NOTES:

- (FP1) (N)10 LB CAPACITY FE W/ SEMI-RECESSED CABINET, 4A:80B:C UL RATING. FINAL LOCATION SHALL BE IN ACCORDANCE WITH NFPA 10.



2 / M2.02 **KEY PLAN**
SCALE: NTS

0 2' 4' 6' 8' 10' 12'
SCALE: 1/4" = 1'

NORTH

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

ROSS R. TANAKA LICENSED PROFESSIONAL ENGINEER No. 9301-M HAWAII, U.S.A.

4/30/2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

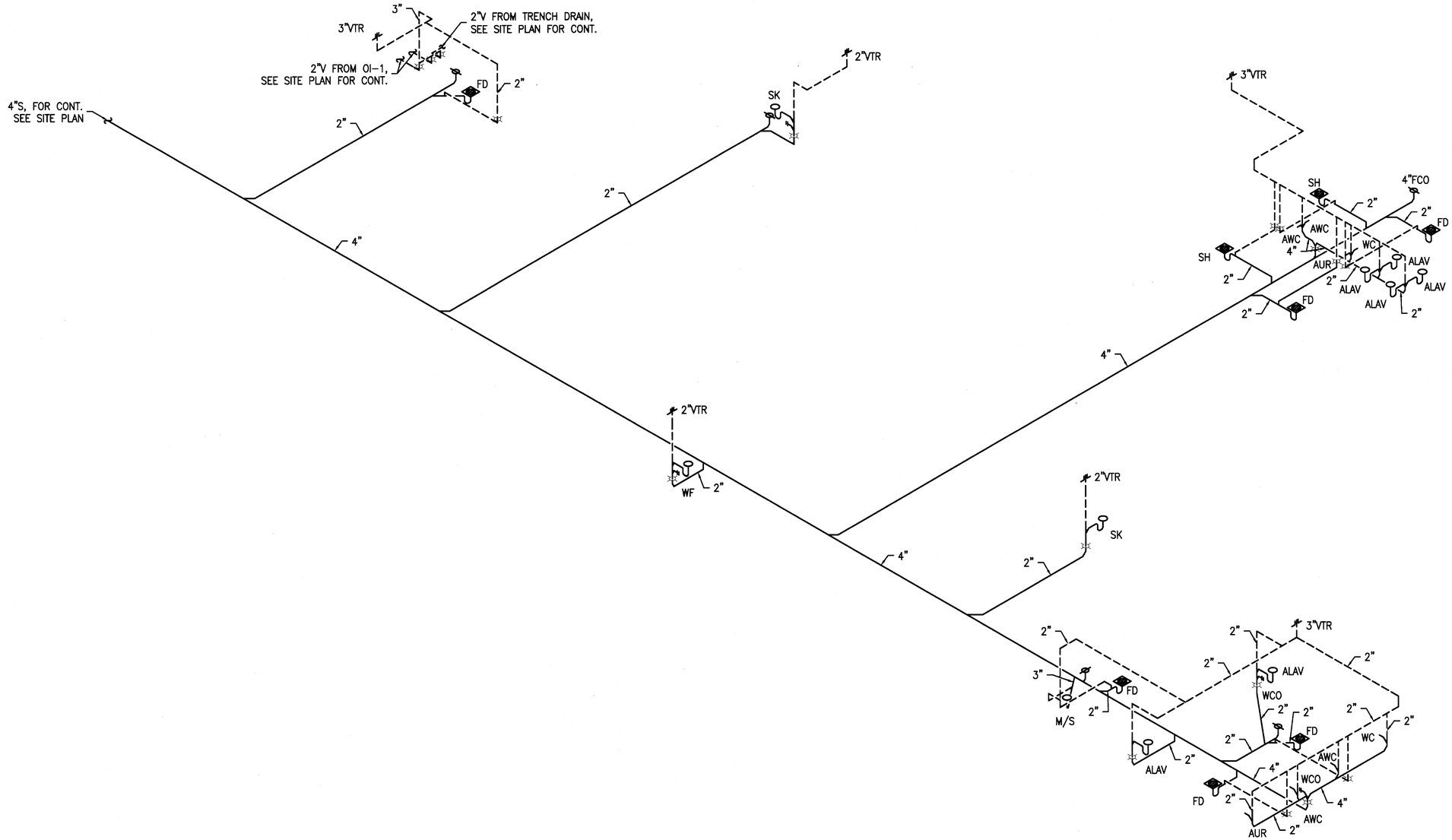
PARTIAL PLUMBING PLAN

DESIGNED:	RRT	SUBMITTED:	
DRAWN:	MEI	DATE:	03/15/16
CHECKED:	RRT	SCALE:	

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. M2.02

JOB NO. J43CM74A SHEET NO. 119 OF 152 SHEETS



1 M2.03 **SANITARY PIPING DIAGRAM**
NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

POSS R. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 9301-M
HAWAII, U.S.A.

4/30/2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

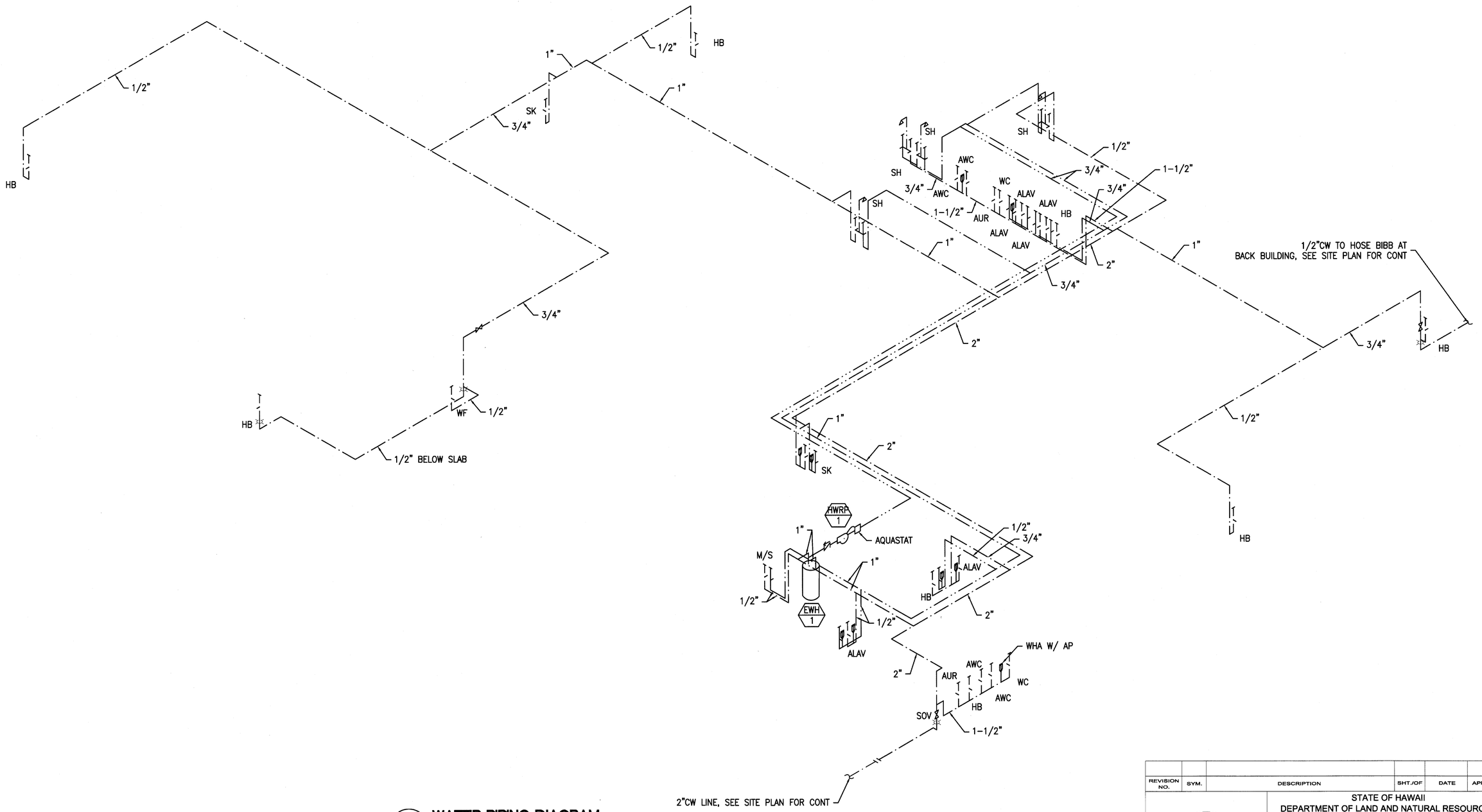
SANITARY PIPING DIAGRAM

DESIGNED:	RRT	SUBMITTED:	
DRAWN:	MEI	DATE:	03/15/16
CHECKED:	RRT	SCALE:	

APPROVED:
CHIEF ENGINEER — MAR 2 3 2016 DATE

DRAWING NO. M2.03

JOB NO. J43CM74A SHEET NO. 120 OF 152 SHEETS



1 / M2.04 **WATER PIPING DIAGRAM**
NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

ROSS R. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 9301-M
HAWAII, U.S.A.

4/30/2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

WATER PIPING DIAGRAM

DESIGNED:	RRT	SUBMITTED:	
DRAWN:	MEI	DATE:	03/15/16
CHECKED:	RRT	SCALE:	

APPROVED:
CHIEF ENGINEER — MAR 2 3 2016 — DATE

DRAWING NO. M2.04

JOB NO. J43CM74A

SHEET NO. 121 OF 152 SHEETS

MECHANICAL EQUIPMENT SCHEDULE

PROVIDE MAGNETIC STARTER/DISCONNECTS WITH AUTOMATIC RESET FOR ALL UNITS. PROVIDE NEMA-4X STARTER ENCLOSURE FOR ALL OUTDOOR EQUIPMENT. ALL OUTDOOR EQUIPMENT SHALL HAVE POLYSILOXANE COATING PROTECTION ON INSIDE AND OUTSIDE OF HOUSING. COILS (CONDENSER) SHALL HAVE BLYGOLD POLUAL COATING. ADSIL MICROGUARD CORROSION PROTECTION MAY BE USED IN LIEU OF POLYSILOXANE/ BLYGOLD POLUAL. PROVIDE HORIZONTALLY AND VERTICALLY RESTRAINED SPRING ISOLATORS WITH NEOPRENE DIPPED SPRINGS AND GALV. HOUSINGS ON ALL EQUIPMENT. PROVIDE PLASTIC COATED CABLE SWAY BRACING ALL SUSPENDED EQUIPMENT. PROVIDE FLEXIBLE DUCT CONNECTIONS AT ALL EQUIPMENT. PROVIDE S.S. BIRDSCREEN AT ALL NEW OA INTAKES. PROVIDE PHASE FAILURE/PHASE REVERSAL/OVER VOLTAGE/UNDER VOLTAGE ELECTRICAL PROTECTION PROVIDE CONTROL VOLTAGE TRANSFORMERS.

VRF SPLIT-SYSTEM AIR CONDITIONING UNIT SCHEDULE - ACCU-1

INDOOR UNITS

UNIT NO.	MANUFACTURER AND MODEL OR APPROVED EQUAL	AREA SERVED	TYPE	MAX SUPPLY AIR, CFM	OUTSIDE AIR, CFM	TOTAL CAPACITY (BTUH)	ENT AIR TEMP db (°F)	ENT AIR TEMP wb (°F)	ELECTRICAL V	ø	Hz	MCA	MOCP	REFRIG LINES* LIQ	REFRIG LINES* GAS	COND DRAIN	MAX SOUND LEVEL (dBA)	OPR WT (LBS)	REMARKS
FCU 1-1	MITSUBISHI PLFY-P08NCMU-ER4	DAR OFFICE 1	CEILING CASSETTE	350	15	8,000	80	67	208	1	60	0.29	15	1/4"	1/2"	1-1/4"	38	34	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP
FCU 1-2	MITSUBISHI PLFY-P08NCMU-ER4	DAR OFFICE 2	CEILING CASSETTE	350	15	8,000	80	67	208	1	60	0.29	15	1/4"	1/2"	1-1/4"	38	34	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP
FCU 1-3	MITSUBISHI PLFY-P08NCMU-ER4	DAR OFFICE 3	CEILING CASSETTE	350	15	8,000	80	67	208	1	60	0.29	15	1/4"	1/2"	1-1/4"	38	34	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP
FCU 1-4	MITSUBISHI PLFY-P08NCMU-ER4	DAR OFFICE 4	CEILING CASSETTE	350	15	8,000	80	67	208	1	60	0.29	15	1/4"	1/2"	1-1/4"	38	34	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP
FCU 1-5	MITSUBISHI PEFY-P15NMHU-E2	DAR OPEN OFFICE	CONCEALED DUCTED	490	105	15,000	80	67	208	1	60	1.63/ 1.50	15	1/4"	1/2"	1-1/4"	45	98	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP
FCU 1-6	MITSUBISHI PEFY-P15NMHU-E2	DAR OPEN OFFICE	CONCEALED DUCTED	490	0	15,000	80	67	208	1	60	1.63/ 1.50	15	1/4"	1/2"	1-1/4"	45	98	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP
FCU 1-7	MITSUBISHI PLFY-P08NCMU-ER4	SHPD OFFICE 1	CEILING CASSETTE	350	15	8,000	80	67	208	1	60	0.29	15	1/4"	1/2"	1-1/4"	38	34	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP

*CONTRACTOR SHALL CONFIRM REFRIGERANT PIPE SIZES WITH MANUFACTURER PRIOR TO PROCUREMENT.

OUTDOOR UNIT

UNIT NO.	MANUFACTURER AND MODEL OR APPROVED EQUAL	LOCATION	TYPE	REFRIG	NOMINAL CAPACITY (TONS)	TOTAL CAPACITY (BTUH)	AMBIENT AIR TEMP (°F)	ELECTRICAL V	ø	Hz	MCA	MOCP	OPR WT (LBS)	REMARKS
ACCU 1	MITSUBISHI PUHY-P72TKMU-BS	ROOF	VARIABLE REFRIG FLOW	R-410a	6	72,000	95	208	3	60	34	40	532	"INVERTER" DRIVEN COMPRESSOR; PROVIDE NEOPRENE ISOLATORS, INTEGRAL STARTER AND DISCONNECT, FACTORY APPLIED CORROSION INHIBITOR COATING ON CONDENSER COIL AND CASING.

VRF SPLIT-SYSTEM AIR CONDITIONING UNIT SCHEDULE - ACCU-2

INDOOR UNITS

UNIT NO.	MANUFACTURER AND MODEL OR APPROVED EQUAL	AREA SERVED	TYPE	MAX SUPPLY AIR, CFM	OUTSIDE AIR, CFM	TOTAL CAPACITY (BTUH)	ENT AIR TEMP db (°F)	ENT AIR TEMP wb (°F)	ELECTRICAL V	ø	Hz	MCA	MOCP	REFRIG LINES* LIQ	REFRIG LINES* GAS	COND DRAIN	MAX SOUND LEVEL (dBA)	OPR WT (LBS)	REMARKS
FCU 2-1	MITSUBISHI PEFY-P48NMHSU-E2	SHPD OPEN OFFICE, ETC.	CONCEALED DUCTED	1340	540	48,000	80	67	208	1	60	4.16	15	3/8"	5/8"	1-1/4"	46	153	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP
FCU 2-2	MITSUBISHI PLFY-P08NCMU-ER4	ENGINEERING OFFICE 1	CEILING CASSETTE	350	15	8,000	80	67	208	1	60	0.29	15	1/4"	1/2"	1-1/4"	38	34	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP
FCU 2-3	MITSUBISHI PLFY-P08NCMU-ER4	LAND OFFICE 1	CEILING CASSETTE	350	15	8,000	80	67	208	1	60	0.29	15	1/4"	1/2"	1-1/4"	38	34	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP
FCU 2-4	MITSUBISHI PLFY-P08NCMU-ER4	LAND OFFICE 2	CEILING CASSETTE	350	15	8,000	80	67	208	1	60	0.29	15	1/4"	1/2"	1-1/4"	38	34	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP
FCU 2-5	MITSUBISHI PLFY-P08NCMU-ER4	LAND OFFICE 3	CEILING CASSETTE	350	15	8,000	80	67	208	1	60	0.29	15	1/4"	1/2"	1-1/4"	38	34	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP
FCU 2-6	MITSUBISHI PLFY-P08NCMU-ER4	SHPD OFFICE 2	CEILING CASSETTE	350	15	8,000	80	67	208	1	60	0.29	15	1/4"	1/2"	1-1/4"	38	34	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP
FCU 2-7	MITSUBISHI PEFY-P30NMHU-E2	LAND OPEN OFFICE, ETC.	CONCEALED DUCTED	880	120	30,000	80	67	208	1	60	2.7	15	3/8"	5/8"	1-1/4"	44	124	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP
FCU 2-8	MITSUBISHI PLFY-P08NCMU-ER4	SHPD OFFICE 1	CEILING CASSETTE	350	15	8,000	80	67	208	1	60	0.29	15	1/4"	1/2"	1-1/4"	38	34	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP

*CONTRACTOR SHALL CONFIRM REFRIGERANT PIPE SIZES WITH MANUFACTURER PRIOR TO PROCUREMENT.

OUTDOOR UNIT

UNIT NO.	MANUFACTURER AND MODEL OR APPROVED EQUAL	LOCATION	TYPE	REFRIG	NOMINAL CAPACITY (TONS)	TOTAL CAPACITY (BTUH)	AMBIENT AIR TEMP (°F)	ELECTRICAL V	ø	Hz	MCA	MOCP	OPR WT (LBS)	REMARKS
ACCU 2	MITSUBISHI PUHY-P144TKMU-BS	ROOF	VARIABLE REFRIG FLOW	R-410a	12	144,000	95	208	3	60	53/49	60	697	"INVERTER" DRIVEN COMPRESSOR; PROVIDE NEOPRENE ISOLATORS, INTEGRAL STARTER AND DISCONNECT, FACTORY APPLIED CORROSION INHIBITOR COATING ON CONDENSER COIL AND CASING.

VRF SPLIT-SYSTEM AIR CONDITIONING UNIT SCHEDULE - ACCU-3

INDOOR UNIT

UNIT NO.	MANUFACTURER AND MODEL OR APPROVED EQUAL	AREA SERVED	TYPE	MAX SUPPLY AIR, CFM	OUTSIDE AIR, CFM	TOTAL CAPACITY (BTUH)	ENT AIR TEMP db (°F)	ENT AIR TEMP wb (°F)	ELECTRICAL V	ø	Hz	MCA	MOCP	REFRIG LINES* LIQ	REFRIG LINES* GAS	COND DRAIN	MAX SOUND LEVEL (dBA)	OPR WT (LBS)	REMARKS
FCU 3-1	MITSUBISHI PEFY-P36NMHU-E2	MEETING RM 1 & 2	CONCEALED DUCTED	1340	150	36,000	80	67	208	1	60	4.16	15	3/8"	5/8"	1-1/4"	46	153	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP
FCU 3-2	MITSUBISHI PEFY-P24NMHU-E2	WAITING RM	CONCEALED DUCTED	880	140	24,000	80	67	208	1	60	2.11	15	3/8"	5/8"	1-1/4"	40	111	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP

*CONTRACTOR SHALL CONFIRM REFRIGERANT PIPE SIZES WITH MANUFACTURER PRIOR TO PROCUREMENT.

OUTDOOR UNIT

UNIT NO.	MANUFACTURER AND MODEL OR APPROVED EQUAL	LOCATION	TYPE	REFRIG	NOMINAL CAPACITY (TONS)	TOTAL CAPACITY (BTUH)	AMBIENT AIR TEMP (°F)	ELECTRICAL V	ø	Hz	MCA	MOCP	OPR WT (LBS)	REMARKS
ACCU 3	MITSUBISHI PUHY-P72TKMU-BS	ROOF	VARIABLE REFRIG FLOW	R410A	6	72,000	95	208	3	60	25	30	430	"INVERTER" DRIVEN COMPRESSOR; PROVIDE NEOPRENE ISOLATORS, INTEGRAL STARTER AND DISCONNECT, FACTORY APPLIED CORROSION INHIBITOR COATING ON CONDENSER COIL AND CASING.

DX SPLIT-SYSTEM AIR CONDITIONING UNIT SCHEDULE - ACCU-4

INDOOR UNIT

UNIT NO.	MANUFACTURER AND MODEL OR APPROVED EQUAL	AREA SERVED	TYPE	MAX SUPPLY AIR, CFM	OUTSIDE AIR, CFM	TOTAL CAPACITY (BTUH)	ENT AIR TEMP db (°F)	ENT AIR TEMP wb (°F)	REFRIG LINES* LIQ	REFRIG LINES* GAS	COND DRAIN	MAX SOUND LEVEL (dBA)	OPR WT (LBS)	REMARKS
FCU 4-1	MITSUBISHI PKA-A12HA6	ELEC RM	WALL MOUNTED	425	0	12,000	80	67	3/8"	5/8"	1"	43	29	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP

*CONTRACTOR SHALL CONFIRM REFRIGERANT PIPE SIZES WITH MANUFACTURER PRIOR TO PROCUREMENT.

OUTDOOR UNIT

UNIT NO.	MANUFACTURER AND MODEL OR APPROVED EQUAL	LOCATION	TYPE	REFRIG	TOTAL CAPACITY (BTUH)	AMBIENT AIR TEMP (°F)	ELECTRICAL V	ø	Hz	MCA	FLA	OPR WT (LBS)	REMARKS
ACCU 4	MITSUBISHI PUY-A12NAH6-BS	ROOF	DX SPLIT SINGLE-ZONE	R410A	12,000	95	208	1	60	13	20	82	PROVIDE NEOPRENE ISOLATORS, STARTER AND DISCONNECT, FACTORY APPLIED CORROSION INHIBITOR COATING ON CONDENSER COIL AND CASING. PROVIDE WIRING AND PIPING TO INDOOR UNIT

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

ROSS R. TANAKA LICENSED PROFESSIONAL ENGINEER No. 9301-M HAWAII, U.S.A.

4/30/2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

MECHANICAL SCHEDULE

DESIGNED:	RRT	SUBMITTED:	
DRAWN:	MEI	DATE:	03/15/16
CHECKED:	RRT	SCALE:	

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. M3.00

DX SPLIT-SYSTEM AIR CONDITIONING UNIT SCHEDULE - ACCU-5

INDOOR UNIT

UNIT NO.	MANUFACTURER AND MODEL OR APPROVED EQUAL	AREA SERVED	TYPE	MAX SUPPLY AIR, CFM	OUTSIDE AIR, CFM	TOTAL CAPACITY (BTUH)	ENT AIR TEMP db (°F)	ENT AIR TEMP wb (°F)	REFRIG LINES* LIQ	REFRIG LINES* GAS	COND DRAIN	MAX SOUND LEVEL (dBA)	OPR WT (LBS)	REMARKS
FCU 5-1	MITSUBISHI PKA-A12HA6	IWI STORAGE	WALL MOUNTED	425	0	12,000	80	67	1/4"	1/2"	1"	43	29	PROVIDE WITH DISCONNECT, ISOLATION MOUNTS, & INTEGRAL CONDENSATE PUMP

*CONTRACTOR SHALL CONFIRM REFRIGERANT PIPE SIZES WITH MANUFACTURER PRIOR TO PROCUREMENT.

OUTDOOR UNIT

UNIT NO.	MANUFACTURER AND MODEL OR APPROVED EQUAL	LOCATION	TYPE	REFRIG	TOTAL CAPACITY (BTUH)	AMBIENT AIR TEMP (°F)	ELECTRICAL V	ELECTRICAL ø	ELECTRICAL Hz	ELECTRICAL MCA	ELECTRICAL MOCP	OPR WT (LBS)	REMARKS
ACCU 5	MITSUBISHI PUY-A12NAH6-BS	OUTSIDE	DX SPLIT SINGLE-ZONE	R410A	12,000	95	208	1	60	13	20	82	PROVIDE NEOPRENE ISOLATORS, STARTER AND DISCONNECT, FACTORY APPLIED CORROSION INHIBITOR COATING ON CONDENSER COIL AND CASING. PROVIDE WIRING AND PIPING TO INDOOR UNIT

EXHAUST FAN SCHEDULE

UNIT	AREA SERVED	TYPE	CFM	ESP (INCH WG)	FAN RPM	ELECTRICAL WATTS	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL HZ	MAX SONE	MAKE & MODEL OR APPROVED EQUAL	REMARKS
EF 1	MENS 1	CENTRIFUGAL CEILING CABINET	100	0.25	940	8	115	1	60	1.4	GREENHECK SP-110-VG	PROVIDE WITH BACKDRAFT DAMPER, ISOLATION MOUNTS, & SOLID STATE FAN SPEED CONTROLLER MOUNTED ON UNIT. INTERLOCK WITH LIGHT SWITCH.
EF 2	WOMENS 1	CENTRIFUGAL CEILING CABINET	100	0.25	940	8	115	1	60	1.4	GREENHECK SP-110-VG	PROVIDE WITH BACKDRAFT DAMPER, ISOLATION MOUNTS, & SOLID STATE FAN SPEED CONTROLLER MOUNTED ON UNIT. INTERLOCK WITH LIGHT SWITCH.
EF 3	JANITOR	CENTRIFUGAL CEILING CABINET	90	0.25	950	100	115	1	60	2.0	GREENHECK SP-B110	PROVIDE WITH BACKDRAFT DAMPER, ISOLATION MOUNTS, & SOLID STATE FAN SPEED CONTROLLER MOUNTED ON UNIT. INTERLOCK WITH LIGHT SWITCH.
EF 4	MENS 2	CENTRIFUGAL INLINE	270	0.25	1350	150	115	1	60	3.5	GREENHECK CSP-A390	PROVIDE WITH BACKDRAFT DAMPER, ISOLATION MOUNTS, & SOLID STATE FAN SPEED CONTROLLER MOUNTED ON UNIT. INTERLOCK WITH LIGHT SWITCH.
EF 5	WOMENS 2	CENTRIFUGAL INLINE	270	0.25	1350	150	115	1	60	3.5	GREENHECK CSP-A390	PROVIDE WITH BACKDRAFT DAMPER, ISOLATION MOUNTS, & SOLID STATE FAN SPEED CONTROLLER MOUNTED ON UNIT. INTERLOCK WITH LIGHT SWITCH.

SUPPLY FAN SCHEDULE

UNIT	AREA SERVED	TYPE	CFM	ESP (INCH WG)	FAN RPM	ELECTRICAL WATTS	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL HZ	MAX SONE	MAKE & MODEL OR APPROVED EQUAL	REMARKS
SF 1	DAR OFFICES, SHPD OFFICES	CENTRIFUGAL SQUARE INLINE	150	0.35	1725	29.8	115	1	60	3.0	GREENHECK SQ-70-VG	PROVIDE NEW WITH BACKDRAFT DAMPER, ISOLATION MOUNTS, & SOLID STATE FAN SPEED CONTROLLER MOUNTED ON UNIT. INTERLOCK WITH ACCU/1.
SF 2	DAR OFFICES	CENTRIFUGAL SQUARE INLINE	60	0.35	1725	22.4	115	1	60	5.4	GREENHECK SQ-80-VG	PROVIDE NEW WITH BACKDRAFT DAMPER, ISOLATION MOUNTS, & SOLID STATE FAN SPEED CONTROLLER MOUNTED ON UNIT. INTERLOCK WITH ACCU/2.
SF 3	ENGIN OFFICE, LAND OFFICES	CENTRIFUGAL SQUARE INLINE	60	0.35	1725	22.4	115	1	60	5.4	GREENHECK SQ-80-VG	PROVIDE NEW WITH BACKDRAFT DAMPER, ISOLATION MOUNTS, & SOLID STATE FAN SPEED CONTROLLER MOUNTED ON UNIT. INTERLOCK WITH ACCU/1.

ELECTRIC WATER HEATER SCHEDULE

	MAKE & MODEL OR APPROVED EQUAL	LOCATION	CAPACITY (GAL.)	RECOVERY @ 90°F TEMP. RISE (GPH)	STANDARD ELECT. INPUT (kW)	ELECTRICAL V	ELECTRICAL ø	ELECTRICAL HZ	WEIGHT (LBS.)	DIMENSIONS (IN.) HEIGHT	DIMENSIONS (IN.) DIAMETER	REMARKS
EWH 1	AO SMITH ECRT-80	JANITORS CLOSET	80	21	4.5	208	3	60	191	61-1/2	25	NON-SIMULTANEOUS OPERATION. PROVIDE W/ INTEGRAL HEAT TRAPS, TEMPERATURE & PRESSURE RELIEF VALVE, & STAINLESS STEEL DRAIN PAN.

OIL WATER SEPARATOR SCHEDULE

UNIT NO.	MANUFACTURER AND MODEL	AREA SERVED	INLET/ OUTLET SIZE	CAPACITY (GALLONS)	OVERALL DIMENSIONS H	OVERALL DIMENSIONS L	OVERALL DIMENSIONS W	REMARKS
OWS 1	JENSEN PRECAST HJ320SO	BOAT WASH	4"	320	5'-0"	6'-8"	3'-8"	

CIRCULATING PUMP SCHEDULE

UNIT	AREA SERVED	TYPE	GPM	TOTAL HEAD (FT)	ELECTRICAL HP	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL HZ	WEIGHT (LB)	REMARKS
CP 1	HW CIRCULATION LOOP	CIRC. PUMP	2.2	2.0	1/25	115	1	60	5.5	GRUNDFOS UPS-15-10 OR APPROVED EQUAL. PROVIDE AQUA-STAT, CONTROL WIRING, VALVES, ETC. AS REQUIRED FOR COMPLETE SYSTEM.

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

ROSS R. TANAKA LICENSED PROFESSIONAL ENGINEER No. 9301-M HAWAII, U.S.A.

4/30/2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

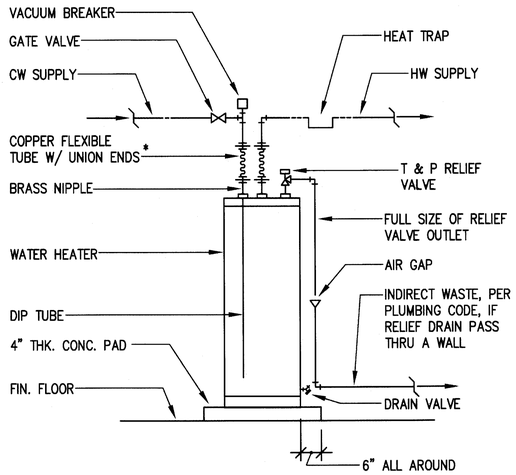
MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

MECHANICAL SCHEDULE

DESIGNED:	RRT	SUBMITTED:	
DRAWN:	MEI	DATE:	03/15/16
CHECKED:	RRT	SCALE:	

APPROVED
CHIEF ENGINEER
MAR 2 3 2016
DATE

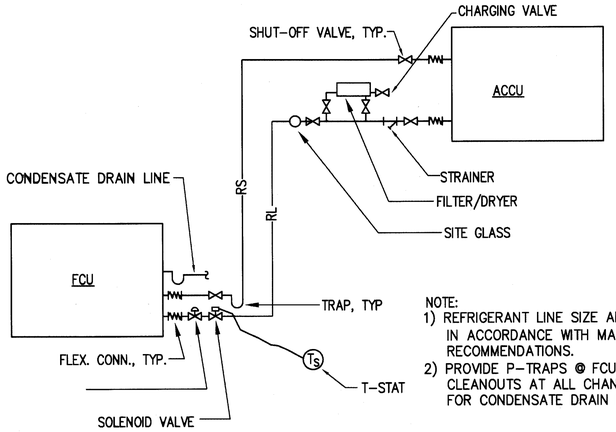
DRAWING NO. M3.01



* COPPER FLEXIBLE TUBE WITH DIELECTRIC UNION ENDS (HW & CW SUPPLY ONLY)

TYPICAL ELECTRIC WATER HEATER

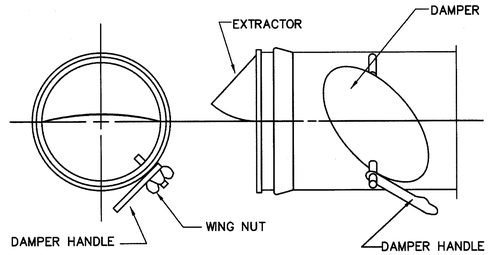
NTS



NOTE:
1) REFRIGERANT LINE SIZE AND ROUTING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2) PROVIDE P-TRAPS @ FCU'S, AND CLEANOUTS AT ALL CHANGES IN DIRECTION FOR CONDENSATE DRAIN LINES.

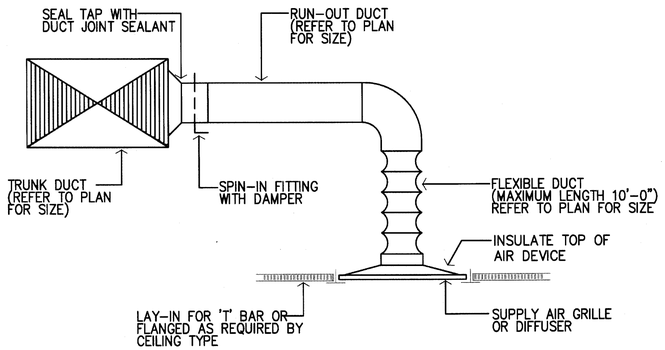
TYPICAL REFRIGERANT PIPING DIAGRAM

NTS



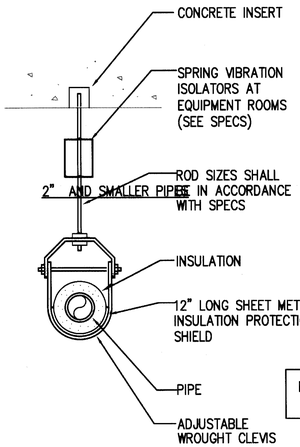
SPIN TAP DETAIL

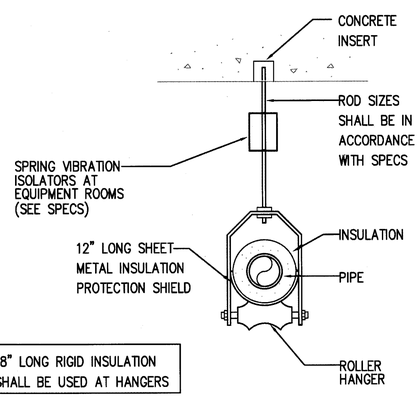
NTS



SPINTAP & CLG. DIFFUSER CONNECTION DETAIL

NOT TO SCALE



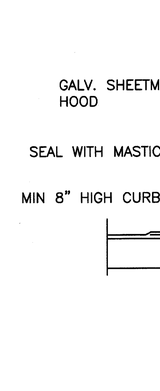


NOTE: 18" LONG RIGID INSULATION SHALL BE USED AT HANGERS

2-1/2" AND LARGER PIPES

PIPE HANGER DETAIL

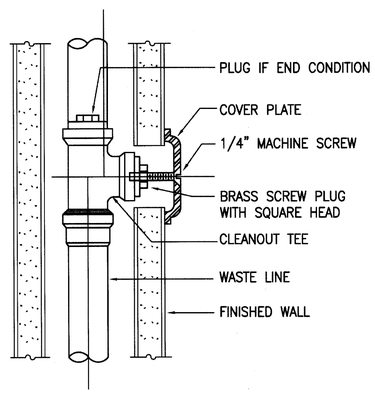
NTS



REFER TO ARCH DWGS FOR WATERPROOFING, FLASHING/COUNTERFLASHING DETAILS ETC.

PIPE THRU ROOF DETAIL

NOT TO SCALE



WALL CLEANOUT

NTS

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

ROSS R. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 9301-M
HAWAII, U.S.A.

4/30/2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

DETAILS

DESIGNED:	RRT	SUBMITTED:	
DRAWN:	MEI	DATE:	03/15/16
CHECKED:	RRT	SCALE:	

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. M4.00

JOB NO. J43CM74A

SHEET NO. 124 OF 152 SHEETS

ELECTRICAL SYMBOL LIST / MOUNTING HEIGHT SCHEDULE

MOUNTING HEIGHT FROM FLOOR TO TOP	MOUNTING HEIGHT FROM FLOOR TO ℄	(SPECIAL MOUNTING HEIGHTS INDICATED ON PLAN) SYMBOL	DESCRIPTION
		(1)	LED LUMINAIRE, CEILING MOUNTED (NUMERAL IN CIRCLE CORRESPONDS TO LUMINAIRE SCHEDULE)
		(1)	LUMINAIRE, CEILING MOUNTED (NUMERAL IN CIRCLE CORRESPONDS TO LUMINAIRE SCHEDULE)
		(1)H	LUMINAIRE, WALL MOUNTED (NUMERAL IN CIRCLE CORRESPONDS TO LUMINAIRE SCHEDULE)
		(1)	LED LUMINAIRE, WALL MOUNTED (NUMERAL IN CIRCLE CORRESPONDS TO LUMINAIRE SCHEDULE)
	7'-6"	⊗H	ILLUMINATED EXIT SIGN, WALL MOUNTED, DIRECTIONAL ARROWS AS INDICATED
		⊗	ILLUMINATED EXIT SIGN, CEILING MOUNTED, DIRECTIONAL ARROWS AS INDICATED
	44"	$a	LIGHT SWITCH, FLUSH WALL MOUNTED, 1P20A, 120/277V, 1HP MAX. (LOWERCASE LETTER INDICATES LUMINAIRES CONTROLLED, CAPITAL D INDICATES DIMMING SWITCH)
		$T	120V ELECTRONIC TIMER SWITCH, 20A, ADJUSTABLE TO 2 HOURS.
	44"	H	OCCUPANCY SENSOR LIGHT SWITCH
		D S a H	LOW VOLTAGE LIGHT CONTROL STATION, FLUSH WALL MOUNTED. (LOWERCASE LETTER INDICATES LUMINAIRES CONTROLLED, CAPITAL D INDICATES DIMMING SWITCH)
		a	OCCUPANCY SENSOR HEAD, CEILING MOUNTED, DUAL TECHNOLOGY (LOWERCASE LETTER INDICATES LUMINAIRES CONTROLLED)
	7'-6"	a H	OCCUPANCY SENSOR HEAD, WALL MOUNTED, DUAL TECHNOLOGY (LOWERCASE LETTER INDICATES LUMINAIRES CONTROLLED)
18"			RECEPTACLE, DUPLEX, GROUNDING TYPE, 125V, NEMA TYPE 5-20R
18"			RECEPTACLE, DUPLEX, GFCI TYPE, 125V, NEMA TYPE 5-20R
18"			RECEPTACLE, QUADRUPLEX, GROUNDING TYPE, 125V, NEMA TYPE 5-20R
	24"		RECEPTACLE, SINGLE, SPECIAL PURPOSE, TYPE AS NOTED
			CONCEALED SERVICE, FLUSH FLOOR OUTLET BOX, SEE 1/E6.00
18"			TELEPHONE/DATA OUTLET BOX, WALL MOUNTED WITH BLANK DEVICE PLATE
18"		V H	CATV OUTLET BOX, WALL MOUNTED WITH BLANK DEVICE PLATE
	44"	K H	ACCESS CONTROL FOB PAD
		J	JUNCTION BOX, HORIZONTALLY MOUNTED
	18"	J H	JUNCTION BOX, WALL MOUNTED
		J H	JUNCTION BOX, LARGE, WALL MOUNTED
		J	JUNCTION BOX, LARGE, HORIZONTALLY MOUNTED
			EQUIPMENT TERMINATION WITH FLEXIBLE CONDUIT WHIP
5'-0"			NON-FUSED DISCONNECT SWITCH, 3P30A UNLESS OTHERWISE NOTED, VOLTAGE TO MATCH CIRCUITING
5'-0"			ENCLOSED CIRCUIT BREAKER

MOUNTING HEIGHT FROM FLOOR TO TOP	MOUNTING HEIGHT FROM FLOOR TO ℄	(SPECIAL MOUNTING HEIGHTS INDICATED ON PLAN) SYMBOL	DESCRIPTION
			ELECTRICAL EQUIPMENT TYPE AS INDICATED
			EXISTING ELECTRICAL EQUIPMENT TYPE AS INDICATED
6'-0"			PANELBOARD
6'-0"			TELEPHONE BACKBOARD
		A-1,3	HOMERUN ARROW TO PANELBOARD. LETTER INDICATES PANELBOARD, NUMBERS INDICATES CIRCUITS (HASHMARKS INDICATE 3 CURRENT CARRYING CONDUCTORS AND 1 GROUND CONDUCTOR WITHIN, ALL OTHERS SIMILAR).
			INTERIOR WORK: CONCEALED CONDUIT IN FINISHED FLOOR OR BELOW GRADE (NO HASHMARKS INDICATE 2 CURRENT CARRYING CONDUCTORS AND 1 GROUND CONDUCTOR WITHIN, ALL OTHERS SIMILAR). EXTERIOR WORK: CONCRETE ENCASED UNDERGROUND DUCTLINE, SEE DUCT SECTION INDICATOR AND SCHEDULE.
			CONCEALED CONDUIT IN CEILING OR WALLS, (HASHMARKS INDICATE 3 CURRENT CARRYING CONDUCTORS AND 1 GROUND CONDUCTOR WITHIN, ALL OTHERS SIMILAR).
			EXPOSED RACEWAY, PROVIDE STRAP AT INTERVALS NOT EXCEEDING 10'-0"
			LIQUID-TIGHT FLEXIBLE CONDUIT
		e	EXISTING UNDERGROUND DUCTLINE
		eOH	EXISTING OVERHEAD LINES
		OH	OVERHEAD LINES
		D	TEL/DATA RACEWAY, 1" MINIMUM CONDUIT, WITH PULLSTRING
		LV	LOW VOLTAGE RACEWAY, 3/4" MINIMUM CONDUIT, WITH CABLES INDICATED ON SHEET E5.03
			HANDHOLE - SIZE AND TYPE AS INDICATED
			LIGHTING PULL BOX
		+42"	DENOTES 42" ABOVE FINISHED FLOOR OR GRADE
		A.F.F.	ABOVE FINISHED FLOOR
		CATV	CABLE TELEVISION

MOUNTING HEIGHT FROM FLOOR TO TOP	MOUNTING HEIGHT FROM FLOOR TO ℄	(SPECIAL MOUNTING HEIGHTS INDICATED ON PLAN) SYMBOL	DESCRIPTION
		DB	DIRECT BUIRED
		HH	HANDHOLE
		HT	HAWAIIAN TELCOM
		KVA	KILOVOLT-AMPERE
		KW	KILOWATT
		KWH	KILOWATT-HOUR
		MECo	MAUI ELECTRIC COMPANY
		TMGB	TELECOMMUNICATION MAIN GROUNDING BUSBAR
		WP	WEATHERPROOF
		1	DUCT SECTION INDICATOR, SEE SHEET E1.03
		1	NOTE INDICATOR
		1 / E1.01	DETAIL INDICATOR: TOP HALF DENOTES DETAIL NUMBER, BOTTOM HALF DENOTES SHEET NUMBER
			POWER TRANSFORMER
			GROUND
			CIRCUIT BREAKER
			NON-FUSED DISCONNECT SWITCH
			NORMALLY OPEN (NO) CONTACT
			TRANSFER SWITCH
		M	METER SOCKET
			PARKING LOT POLE LIGHT ASSEMBLY SEE 1/E1.03
		TS	TIME SWITCH

MAUI COUNTY CODE, CHAPTER 16.16A ENERGY CODE

To the best of my knowledge, this project's design substantially conforms to the Energy Code for:

____ Building Component Systems
_X_ Electrical Component Systems
____ Mechanical Component Systems

Signature: _____ Date: 03/15/16
Name: MICHELE N. ADOLPHO
Title: ELECTRICAL ENGINEER
License No: 10017-E

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

MICHELE N. ADOLPHO
LICENSED PROFESSIONAL ENGINEER
No. 10017-E
HAWAII, U.S.A.

APRIL 30, 2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

ELECTRICAL SYMBOL LIST

DESIGNED:	RP	SUBMITTED:	
DRAWN:	MC	DATE:	03/15/2016
CHECKED:	MA	SCALE:	AS SHOWN

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. E0.00

JOB NO. J43CM74A SHEET NO. 125 OF 152 SHEETS

3/17/16-11:31 Y:\148\148.026\148.026 E0.00-E0.01.001.dwg

GENERAL ELECTRICAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRICAL SAFETY CODE. CONSTRUCTION PRACTICES SHALL CONFORM TO THE LATEST EDITION OF AMERICAN ELECTRICIANS' HANDBOOK BY CROFT, AND APPLICABLE INSTRUCTIONS OF MANUFACTURERS OF EQUIPMENT AND MATERIAL SUPPLIED FOR THIS PROJECT.

2. ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS IS NEW UNLESS OTHERWISE NOTED.

3. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO COMMENCEMENT OF NEW WORK.

4. PROVIDE A SEPARATE INSULATED GREEN GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE NEC IN ALL FEEDER AND BRANCH CIRCUIT RACEWAYS.

5. VERIFY RATINGS OF ALL ELECTRICALLY OPERATED OR CONTROLLED EQUIPMENT PROVIDED BY OTHER TRADES. COORDINATE RATINGS OF OVERCURRENT EQUIPMENT, DEVICES, DISCONNECT SWITCHES, CONDUIT AND WIRING, TO MATCH THE ACTUAL EQUIPMENT SUPPLIED, AT NO ADDITIONAL COST TO THE STATE.

6. COORDINATE CONDUIT STUB-UP LOCATIONS FOR ALL EQUIPMENT WITH THE RESPECTIVE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN WORK.

7. REFER TO MECHANICAL DRAWINGS FOR FURTHER DESCRIPTION OF INTERDISCIPLINARY ELECTRICAL POWER REQUIREMENTS.

8. PROVIDE SEPARATE NEUTRAL FOR ALL 120V BRANCH CIRCUITS. COMMON NEUTRAL NOT ACCEPTABLE.

9. BACK-TO-BACK OUTLET BOXES NOT PERMITTED. OUTLET BOXES SHALL BE STAGGERED AND SEPARATED BY 1-STUD SPACE AND 12" CENTER-TO-CENTER SPACING.

10. THE LOCATION OF ALL ELECTRICAL APPARATUS AND DEVICES ARE APPROXIMATE AND BEFORE INSTALLING, STUDY THE ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DETAILS AND MAKE INSTALLATION IN THE MOST LOGICAL MANNER.

11. ALL CONDUIT ROUTING AND JUNCTION BOX LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL ROUTE CONDUITS AND MOUNT JUNCTION BOXES IN A LOGICAL AND CONSTRUCTIBLE MANNER. EXPOSED CONDUITS SHALL BE ROUTED PARALLEL AND/OR PERPENDICULAR TO EXISTING ARCHITECTURAL AND STRUCTURAL ELEMENTS.

12. ALL CONTROL DEVICES, CONTROL CONDUIT, CONTROL WIRING AND SEPARATELY ENCLOSED MOTOR STARTERS ARE PROVIDED UNDER APPLICABLE SPECIFICATION SECTIONS. ALL POWER TO ELECTRICALLY OPERATED EQUIPMENT PROVIDED UNDER ELECTRICAL SPECIFICATIONS.

13. PROVIDE NYLON PULLSTRINGS IN ALL EMPTY CONDUITS UNLESS OTHERWISE INDICATED.

14. THE TELECOMMUNICATIONS RACEWAY SYSTEM INSTALLATION SHALL COMPLY WITH TIA/EIA-569-A UNLESS OTHERWISE NOTED.

15. CONDUIT BODIES (e.g. LB, LR, etc.) SHALL NOT BE PERMITTED IN THE TELECOMMUNICATIONS RACEWAY SYSTEMS UNLESS SPECIFICALLY INDICATED TO BE UTILIZED AND LISTED FOR TELECOMMUNICATIONS SYSTEM USE.

16. PROVIDE INSULATED BUSHINGS AT ALL TELECOMMUNICATIONS CONDUIT TERMINATIONS AT ALL BOXES, BACKBOARDS, AND CONDUIT STUBS.

17. UTILITY COMPANY STANDARDS
    a. 3' X 5' HT HANDHOLE: PRECAST CONCRETE WITH 2-PIECE POLYMER CONCRETE COVER, PER GTS 8395.
    b. 2' X 4' CATV HANDHOLE: PRECAST CONCRETE WITH POLYMER CONCRETE COVERS SIMILAR TO HTCO TYPE 435TB EXCEPT WITH 'CATV" INSCRIBED ON COVER

18. CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS AND PAY ALL EXPENSES FOR UTILITIES USAGE (INCLUDING MONTHLY USAGE, DEMAND, CUSTORMER, SURCHARGES AND BASE RATE CHARGES) UNTIL THE PROJECT IS COMPLETED AND ACCEPTED BY THE STATE. SEE INFORMATION AND INSTRUCTIONS TO BIDDERS FOR ADDITIONAL REQUIREMENT.

19. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL, TELEPHONE, AND CABLE TELEVISION UTILITY WORK WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO STARTING WORK. CONTRACTOR SHALL INCLUDE ALLOWANCE AS PART OF CONSTRUCTION COST TO PAY FOR ALL UTILITY COMPANIES' SERVICE CONNECTION CHARGES (INCLUDING METER INSTALLATION AND PHOTOVOLTAIC NET METERING AND/OR INTERCONNECTION). SEE INFORMATION AND INSTRUCTIONS TO BIDDERS FOR ADDITIONAL REQUIREMENT.

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

MICHELE N. ADOLPHO
LICENSED PROFESSIONAL ENGINEER
No. 10017-E
HAWAII, U.S.A.

APRIL 30, 2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

GENERAL ELECTRICAL NOTES

DESIGNED:	RP	SUBMITTED:	
DRAWN:	MC	DATE:	03/15/2016
CHECKED:	MA	SCALE:	AS SHOWN

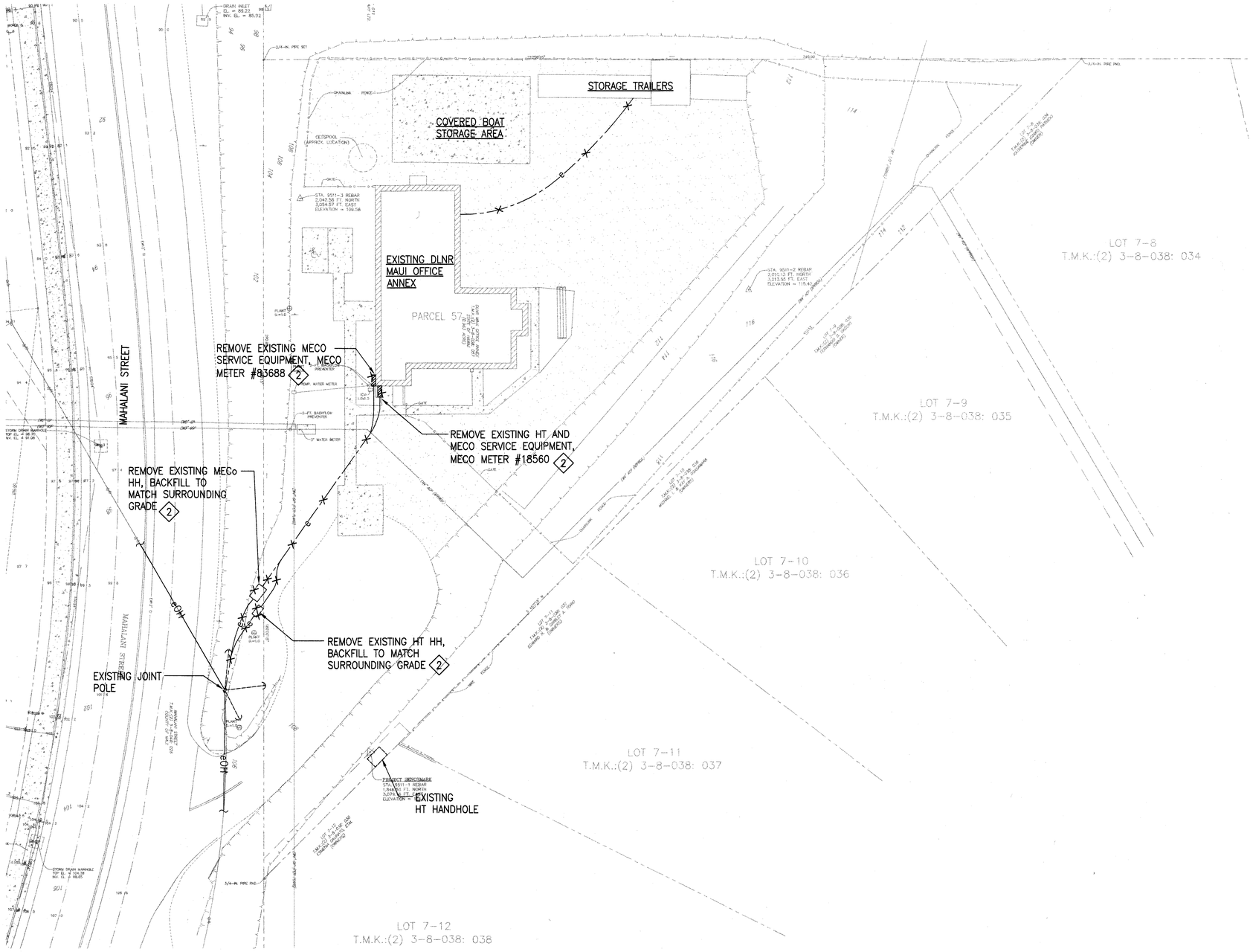
APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. E0.01

JOB NO. J43CM74A

SHEET NO. 126 OF 152 SHEETS

3/17/16-11:30 Y:\148\148.028\148.028 E0.00-E0.01.G01.dwg



N

ELECTRICAL DEMOLITION SITE PLAN

SCALE: 1" = 20'

NOTES:

1. REMOVE ALL EXISTING DUCTLINES INDICATED FOR DEMOLITION. DO NOT ABANDON IN PLACE.

2 COORDINATE REMOVAL WITH RESPECTIVE UTILITIES.

GRAPHIC SCALE

20' 0' 20' 40' 60' 80'

1" = 20'

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

MICHELE N. ADOLPHO
LICENSED PROFESSIONAL ENGINEER
No. 10017-E
HAWAII, U.S.A.

APRIL 30, 2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

ELECTRICAL DEMOLITION SITE PLAN

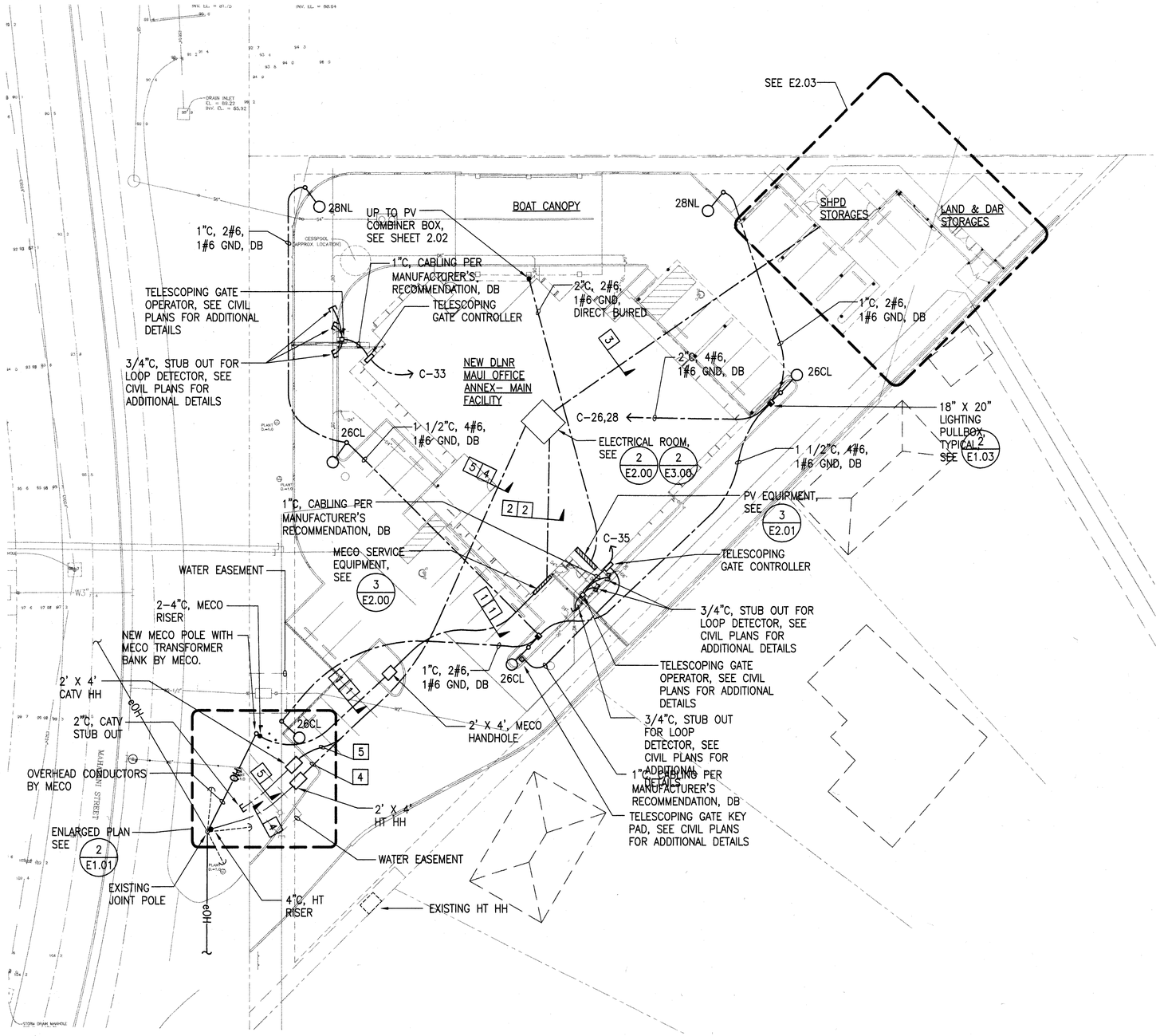
DESIGNED:	RP	SUBMITTED:	
DRAWN:	MC	DATE:	03/15/2016
CHECKED:	MA	SCALE:	AS SHOWN

APPROVED:
CHIEF ENGINEER — MAR 2 3 2016 DATE

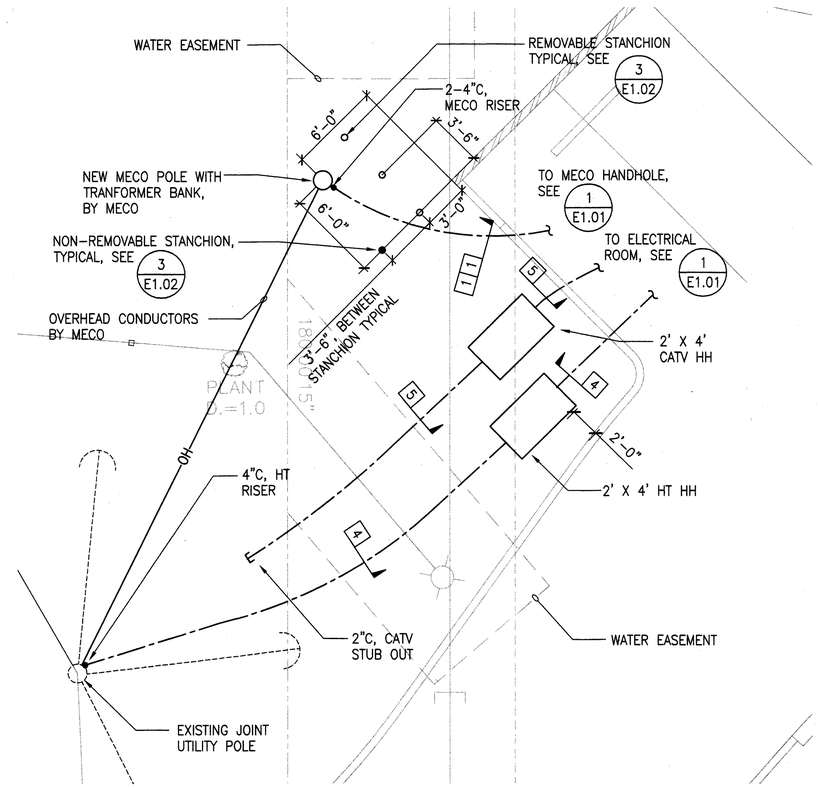
DRAWING NO. E1.00

JOB NO. J43CM74A SHEET NO. 127 OF 152 SHEETS

3/17/16-11:30 Y:\148\148.026\148.026 E1.00.DM01.dwg



1 E1.01 ELECTRICAL SITE PLAN
SCALE: 1" = 20'



2 E1.01 ENLARGED ELECTRICAL SITE PLAN
SCALE: 1" = 5'

GRAPHIC SCALE
5' 0' 5' 10' 15' 20'
1" = 5'

GRAPHIC SCALE
20' 0' 20' 40' 60' 80'
1" = 20'

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

ELECTRICAL SITE PLANS

MICHELE N. ADOLPHO
LICENSED PROFESSIONAL ENGINEER
No. 10017-E
HAWAII, U.S.A.

APRIL 30, 2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

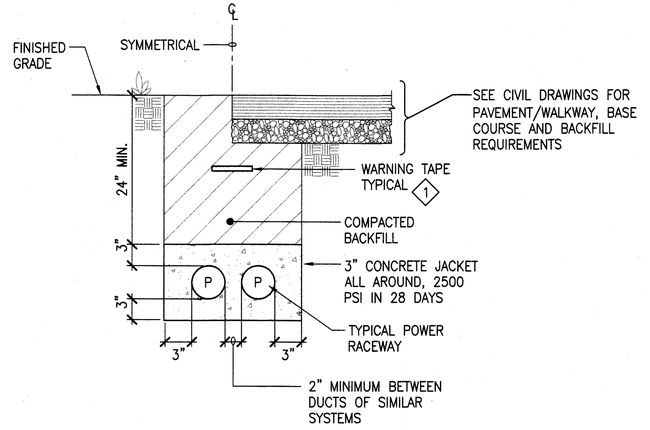
DESIGNED:	RP	SUBMITTED:	
DRAWN:	MC	DATE:	03/15/2016
CHECKED:	MA	SCALE:	AS SHOWN

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

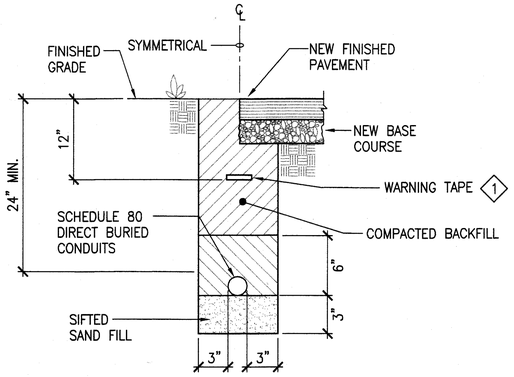
DRAWING NO. E1.01

JOB NO. J43CM74A SHEET NO. 128 OF 152 SHEETS

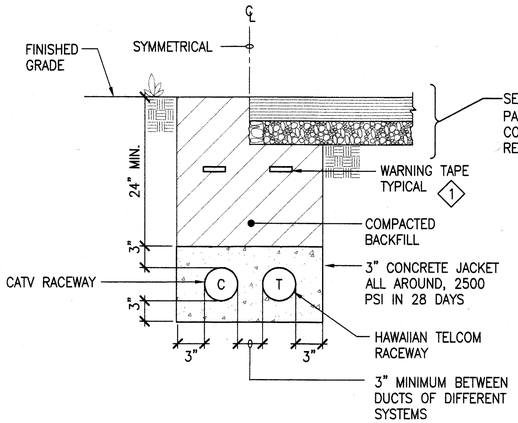
3/17/16-11:29 Y:\148\148.026\148.026 E1.01.SOI.dwg



TYPICAL CONCRETE ENCASED POWER DUCTLINE



TYPICAL DIRECT BURIED LIGHTING DUCTLINE

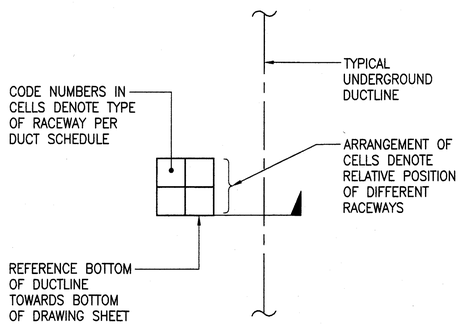


TYPICAL CONCRETE ENCASED HT/CATV SERVICE DUCTLINE

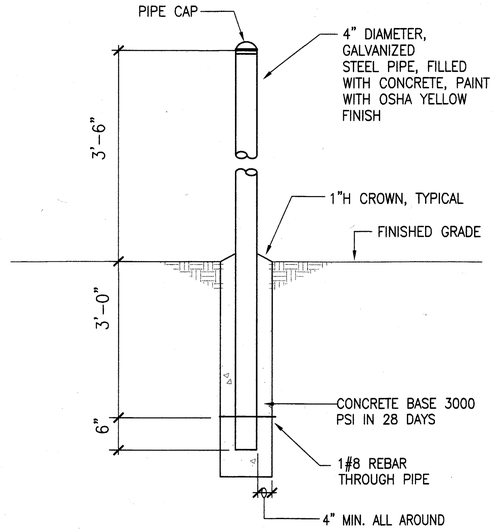
NOTE:

1 8 MIL THICK COLORED PLASTIC WARNING TAPE. 3" WIDE WITH CONTINUOUS METALLIC BACKING AND CORROSION RESISTANT FOIL CORE. RED COLORED WARNING TAPE ABOVE MECO DUCTLINE WITH INSCRIPTION "CAUTION–ELECTRICAL LINE BURIED BELOW" IN BLACK LETTERING, REPEATED AT 36" INTERVALS. ORANGE COLORED WARNING TAPE PER HT STANDARD 34028 ABOVE HT DUCTLINE AND WARNING TAPE PER OTWC STANDARD ABOVE CATV DUCTLINE. YELLOW COLORED WARNING TAPE ABOVE NON–UTILITY ELECTRICAL DUCTLINE WITH INSCRIPTION "CAUTION–ELECTRICAL LINE BURIED BELOW" IN BLACK LETTERING.

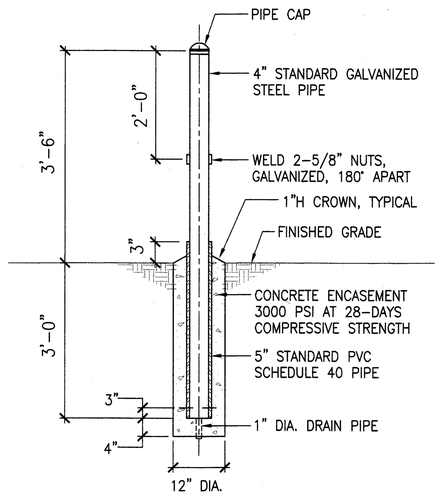
1 E1.02 DUCT SECTION
NOT TO SCALE



2 E1.02 DUCT SECTION FLAG CODE
NOT TO SCALE



NON-REMOVABLE



REMOVABLE

NOTES:

1. BARRIER POSTS ARE TO BE PAINTED YELLOW AS PER ANSI SPEC Z535.1 TO COMPLY WITH OSHA STANDARDS FOR COLORING CODE.
2. THE PIPE THAT IS TO BE PLACED DIRECTLY IN FRONT OF THE DOORS SHALL NOT BE FILLED WITH CONCRETE. THE PIPE SHALL BE CAPPED AND THE WELDED NUTS ARE FOR SCREWING IN BOLTS TO ACT AS "HANDLES" FOR LIFTING. THE BOLTS ARE TO BE REMOVED AFTER INSTALLATION.

3 E1.02 PROTECTIVE PIPE STANCHION
NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

MICHELE N. ADOLPHO
LICENSED PROFESSIONAL ENGINEER
No. 10017–E
HAWAII, U.S.A.

APRIL 30, 2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

DUCT SECTION AND STANCHION DETAILS

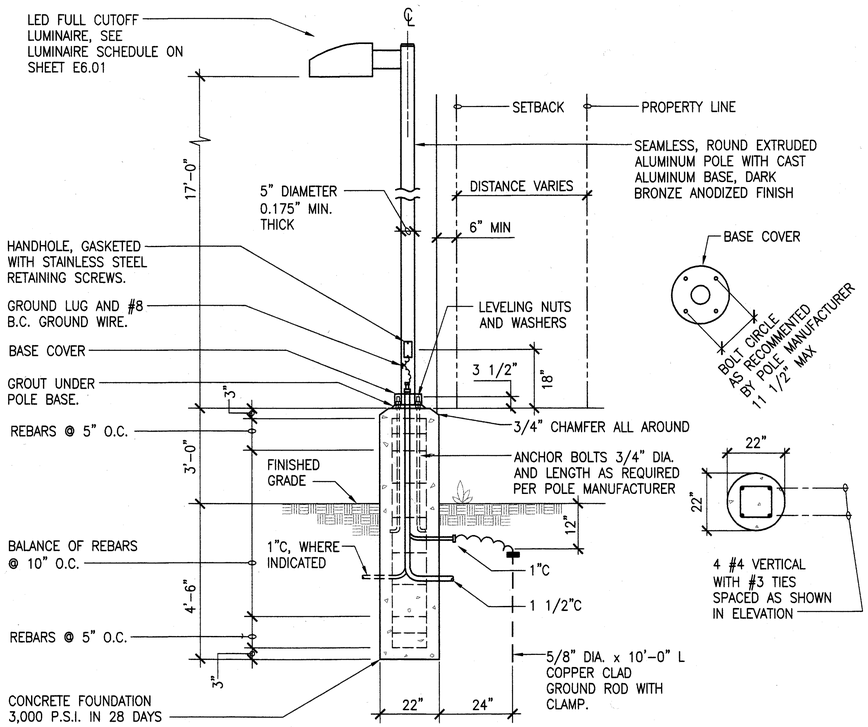
DESIGNED:	RP	SUBMITTED:	
DRAWN:	MC	DATE:	03/15/2016
CHECKED:	MA	SCALE:	AS SHOWN

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. E1.02

JOB NO. J43CM74A SHEET NO. 129 OF 152 SHEETS

3/17/16–11:29 Y:\148\148.026\148.026 E1.02.001.dwg

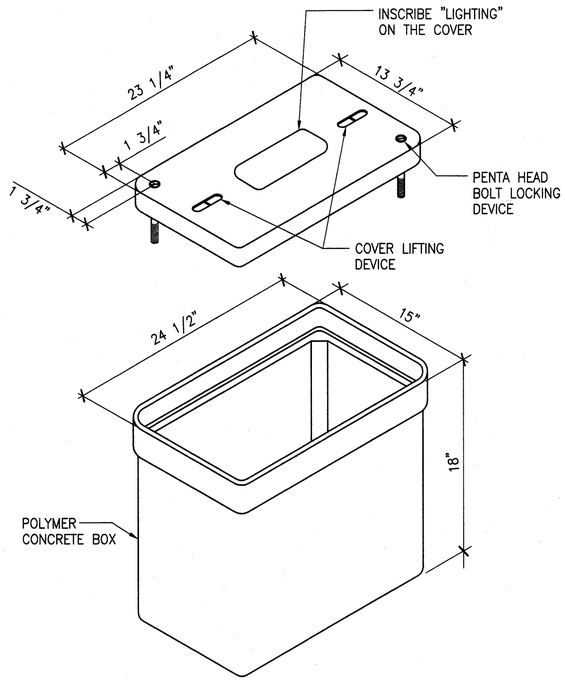


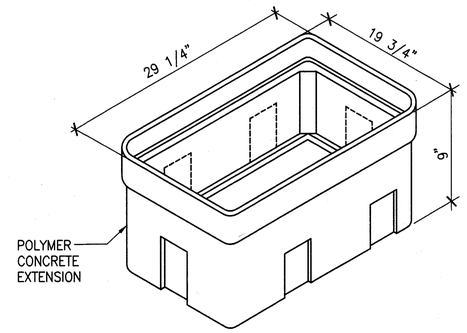
NOTE:
PARKING LIGHT ASSEMBLY, INCLUDING POLE, LUMINAIRE AND FOUNDATION SHALL WITHSTAND WINDS UP TO 108 MPH GUSTING WITHOUT PERMANENT DEFORMATION.

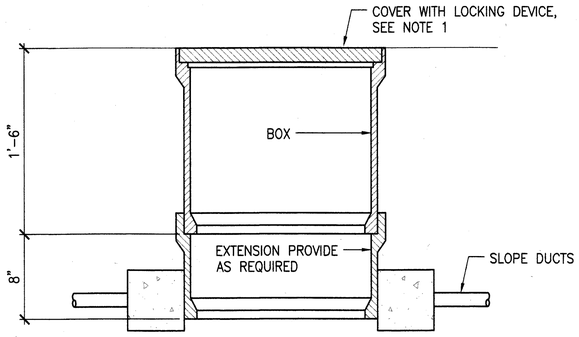
1 E1.03 PARKING LOT LIGHT POLE ASSEMBLY
NOT TO SCALE

DUCT SCHEDULE

TYPE	DESCRIPTION	CONDUCTORS
1	HECO, 4" PVC SCHEDULE 40, CONCRETE ENCASED	WITH PULLSTRING
2	POWER, 4" PVC SCHEDULE 40, CONCRETE ENCASED	SEE ONE LINE DIAGRAM FOR CONDUCTOR SIZES AND QUANTITIES
3	POWER, 2" PVC SCHEDULE 40, CONCRETE ENCASED	SEE ONE LINE DIAGRAM FOR CONDUCTOR SIZES AND QUANTITIES
4	TELEPHONE, 4" PVC SCHEDULE 40, CONCRETE ENCASED	WITH MULETAPE
5	CATV, 2" PVC SCHEDULE 40, CONCRETE ENCASED	WITH MULETAPE



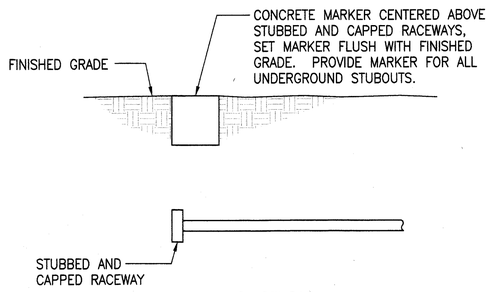




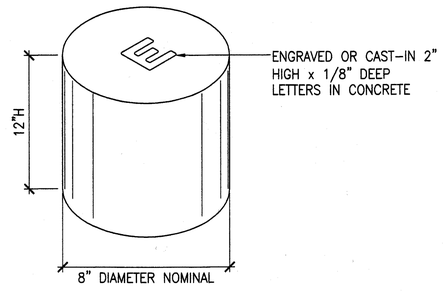
NOTES:

1. TO PROPERLY SECURE THE COVER, BE SURE THAT THE PENTAHEAD BOLTS ARE IN PLACE AND TIGHTENED. THE PENTA BOLTS SHALL BE FASTENED SECURELY TO THE COVERS (BY MEANS OF A COTTER PIN, FOR EXAMPLE), SO THE BOLTS CANNOT BE EASILY REMOVED FROM THE COVERS, EVEN WHEN THE COVERS ARE REMOVED FROM THE BOXES.
2. GROUND ROD SHALL BE INSTALLED IN THE CORNER, 6" FROM EACH WALL AND 6" ABOVE FINAL FLOOR GRADE.
3. NON-CONCRETE BOXES, COVERS, AND EXTENSIONS SHALL BE RATED FOR A VERTICAL LOAD OF 20,000 LBS (20K) MINIMUM.

2 E1.03 LIGHTING PULLBOX
NOT TO SCALE



SECTION



3 E1.03 CONCRETE MARKER DETAIL
NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

POLE LIGHT AND HANDHOLE DETAILS AND DUCT SCHEDULE

MICHELE N. ADOLPHO — LICENSED PROFESSIONAL ENGINEER — No. 10017-E — HAWAII, U.S.A.

APRIL 30, 2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

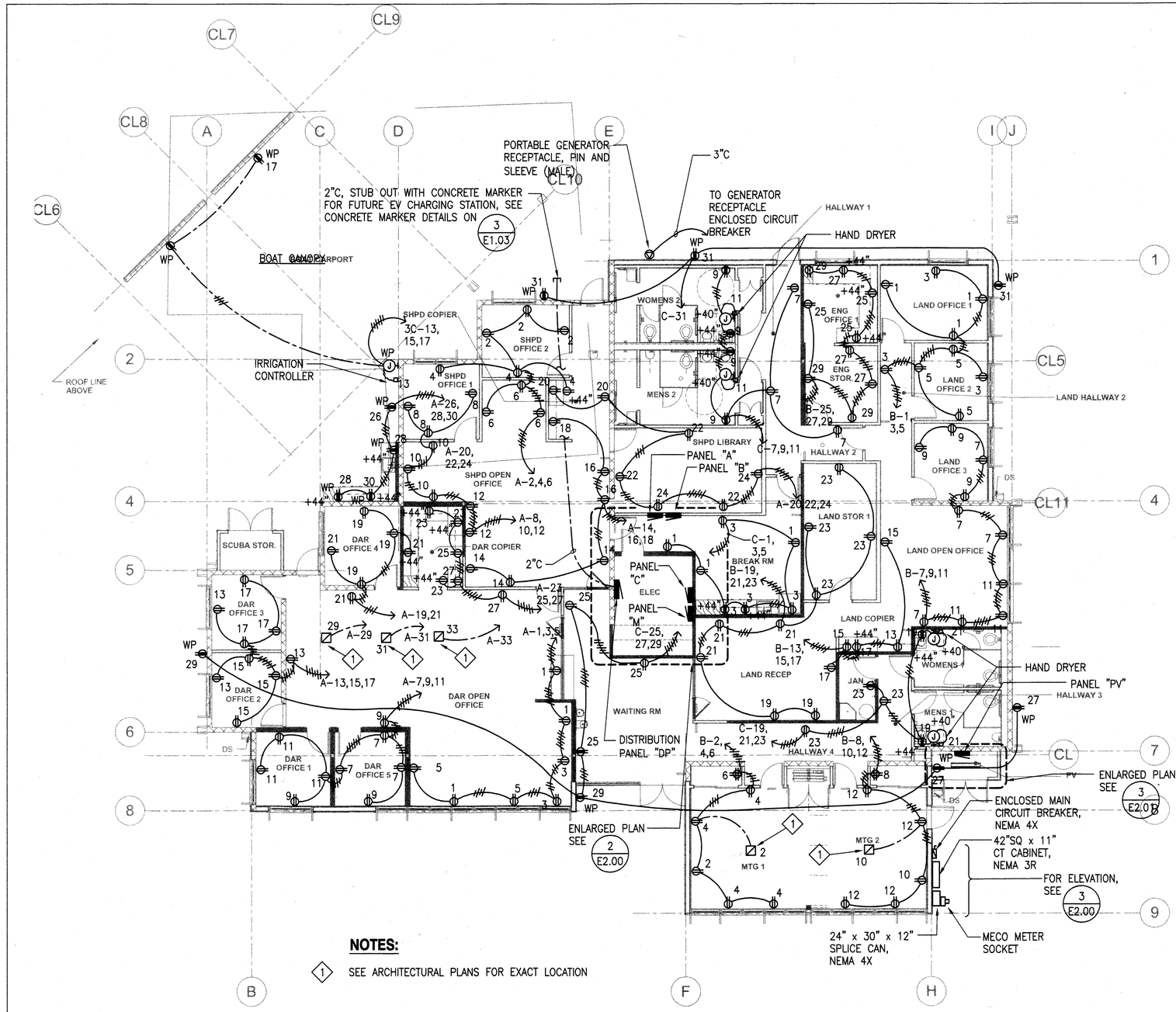
DESIGNED:	RP
DRAWN:	MC
CHECKED:	MA
SUBMITTED:	
DATE:	03/15/2016
SCALE:	AS SHOWN

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. E1.03

JOB NO. J43CM74A

SHEET NO. 130 OF 152 SHEETS

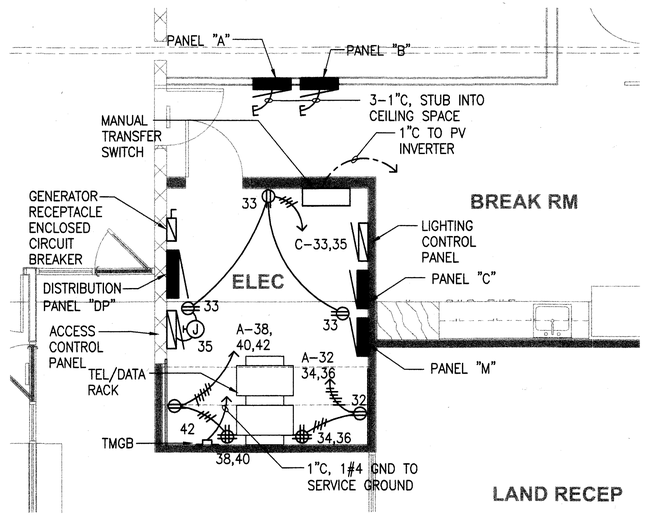


NOTES:

1. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION

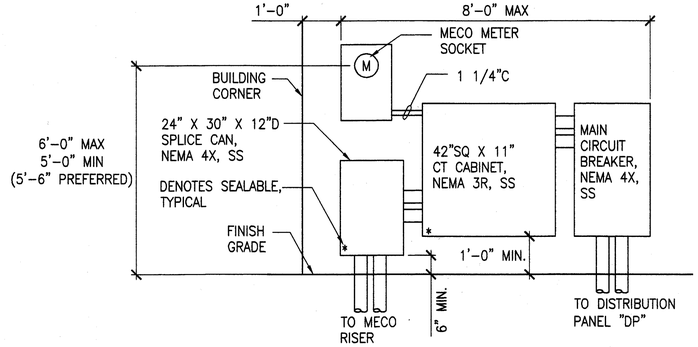
1 E2.00 MAIN FACILITY POWER PLAN

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



2 E2.00 ENLARGED ELECTRICAL ROOM PLAN

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



3 E2.00 METER ELEVATION

NOT TO SCALE

GRAPHIC SCALE

5' 0 5' 10' 15'

1/4" = 1'-0"

5' 0 5' 10' 15' 20' 25' 30' 35' 40'

1/8" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

MAIN FACILITY POWER PLANS AND METER ELEVATION

MICHELE N. ADOLPHO
LICENSED PROFESSIONAL ENGINEER
No. 10017-E
HAWAII, U.S.A.

APRIL 30, 2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DESIGNED:	RP	SUBMITTED:	
DRAWN:	MC	DATE:	03/15/2016
CHECKED:	MA	SCALE:	AS SHOWN

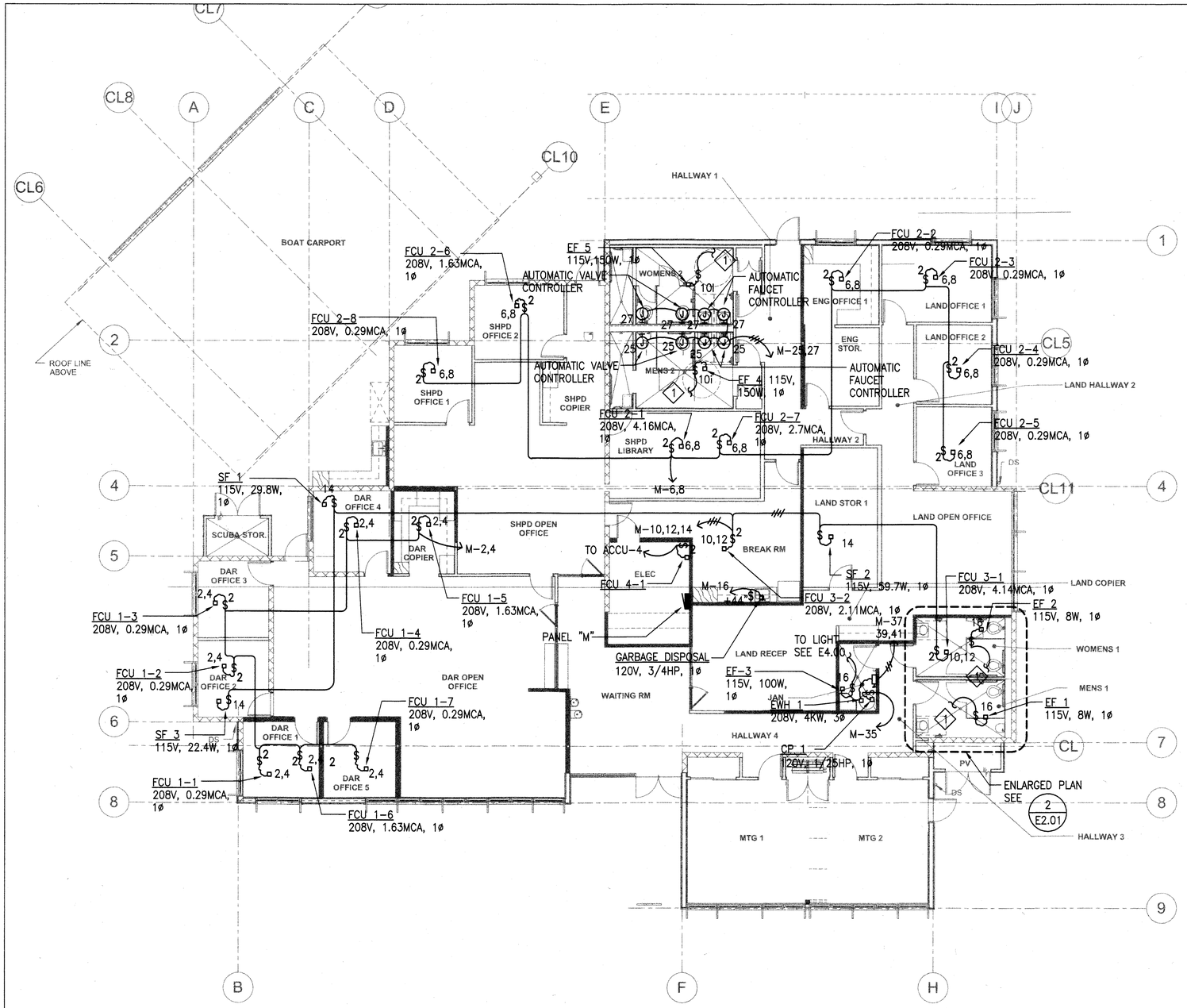
APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. E2.00

JOB NO. J43CM74A

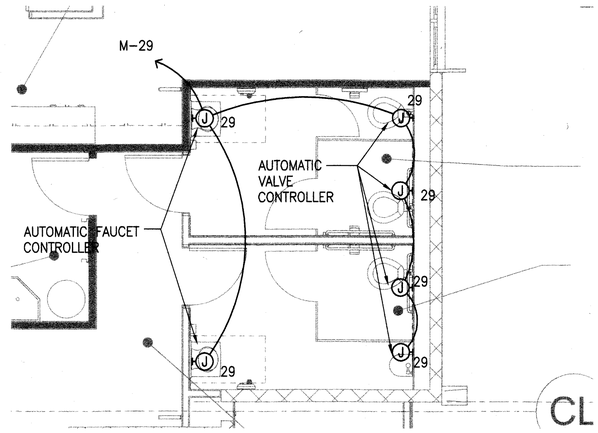
SHEET NO. 131 OF 152 SHEETS

3/17/16-11:28 Y:\148\148.026\148.026 E2.00.P03.dwg



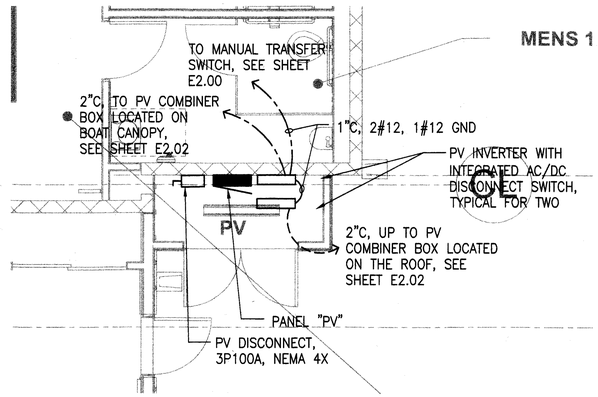
1 E2.01 MAIN FACILITY MECHANICAL POWER PLAN

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



2 E2.01 ENLARGED RESTROOM POWER PLAN

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



3 E2.01 ENLARGED PV CLOSET POWER PLAN

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

NOTE:

1. TO LIGHT, SEE SHEET E4.00.

GRAPHIC SCALE

5' 0 5' 10' 15'

1/4" = 1'-0"

5' 0 5' 10' 15' 20' 25' 30' 35' 40'

1/8" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

MAIN FACILITY MECHANICAL AND PV CLOSET POWER PLANS

MICHELE N. ADOLPHO
LICENSED PROFESSIONAL ENGINEER
No. 10017-E
HAWAII, U.S.A.

APRIL 30, 2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DESIGNED:	RP	SUBMITTED:	
DRAWN:	MC	DATE:	03/15/2016
CHECKED:	MA	SCALE:	AS SHOWN

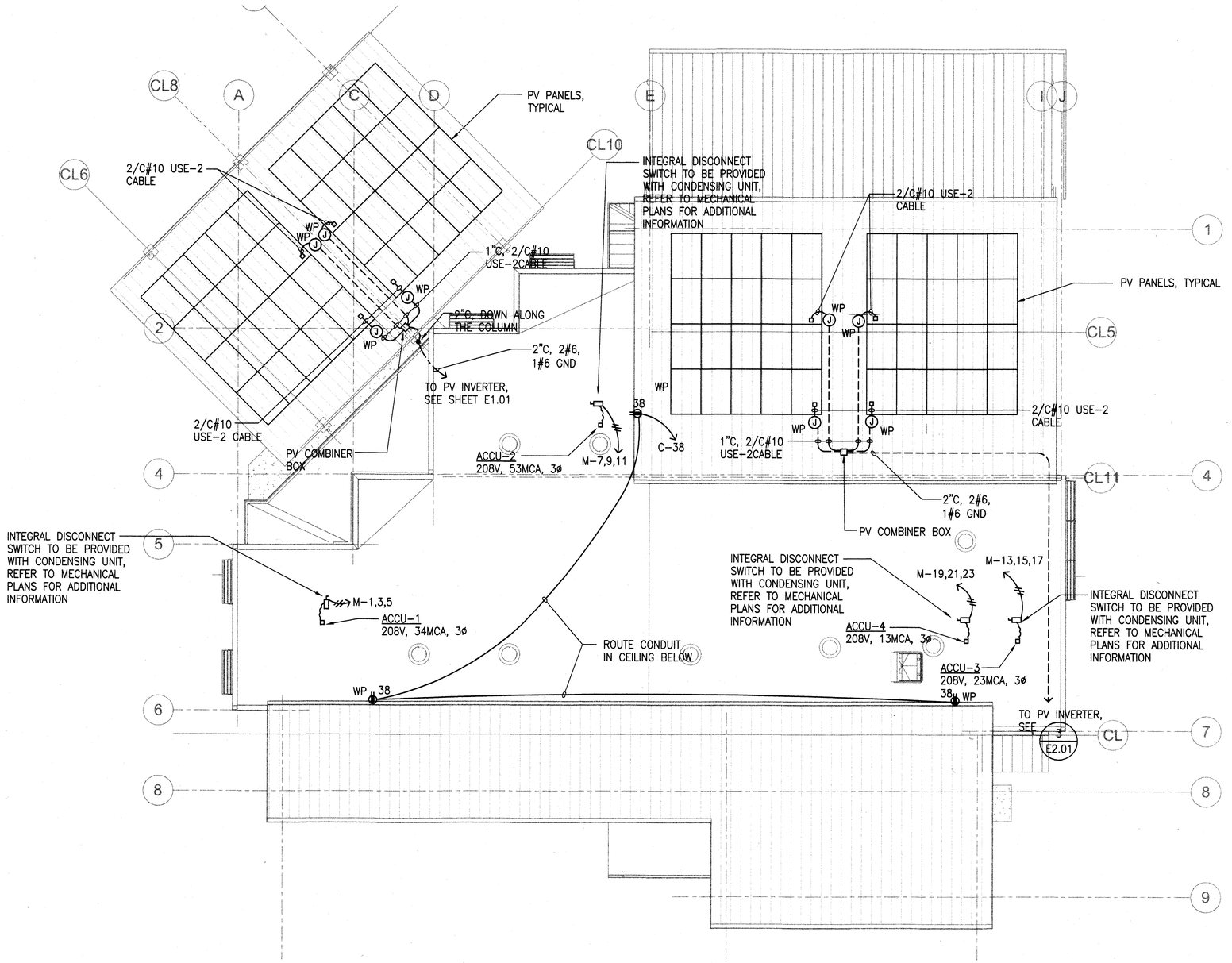
APPROVED:
CHIEF ENGINEER — DATE: MAR 2 3 2016

DRAWING NO. E2.01

JOB NO. J43CM74A

SHEET NO. 132 OF 152 SHEETS

3/17/16-11:27 Y:\148\148.026\148.026 E2.01.MD1.dwg



MAIN FACILITY ROOF POWER PLAN

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

GRAPHIC SCALE

5' 0 5' 10' 15' 20' 25' 30' 35' 40'

1/8" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

MAIN FACILITY ROOF POWER PLAN

MICHELE N. ADOLPHO
LICENSED PROFESSIONAL ENGINEER
No. 10017-E
HAWAII, U.S.A.

APRIL 30, 2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DESIGNED:	RP	SUBMITTED:	
DRAWN:	MC	DATE:	03/15/2016
CHECKED:	MA	SCALE:	AS SHOWN

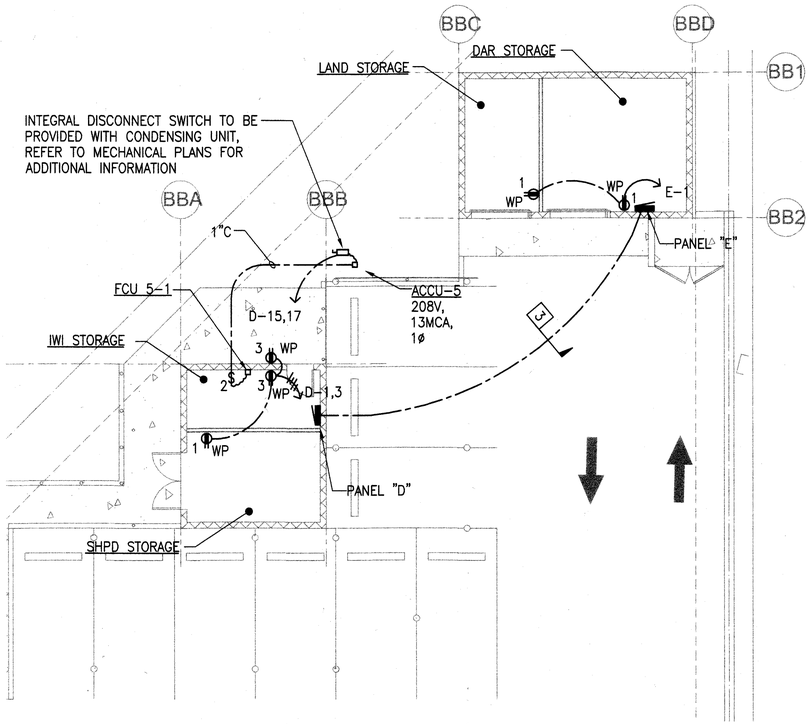
APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. E2.02

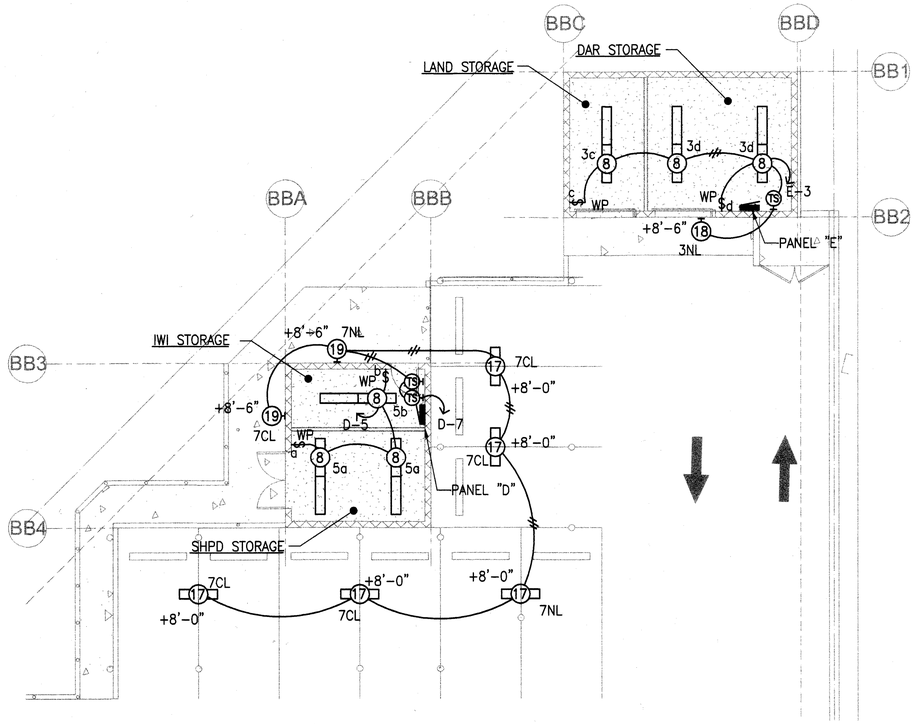
JOB NO. J43CM74A

SHEET NO. 133 OF 152 SHEETS

3/17/16-11:27 Y:\148\148.026\148.026 E2.02.RF01.dwg



1 E-2.03 **STORAGE BUILDINGS POWER PLAN**
SCALE: 1/8" = 1'-0"



2 E-2.03 **STORAGE BUILDINGS LIGHTING PLAN**
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE

5' 0 5' 10' 15' 20' 25' 30' 35' 40'

1/8" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

MICHELE N. ADOLPHO
LICENSED PROFESSIONAL ENGINEER
No. 10017-E
HAWAII, U.S.A.

APRIL 30, 2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

STORAGE BUILDINGS POWER AND LIGHTING PLANS

DESIGNED:	RP	SUBMITTED:	
DRAWN:	MC	DATE:	03/15/2016
CHECKED:	MA	SCALE:	AS SHOWN

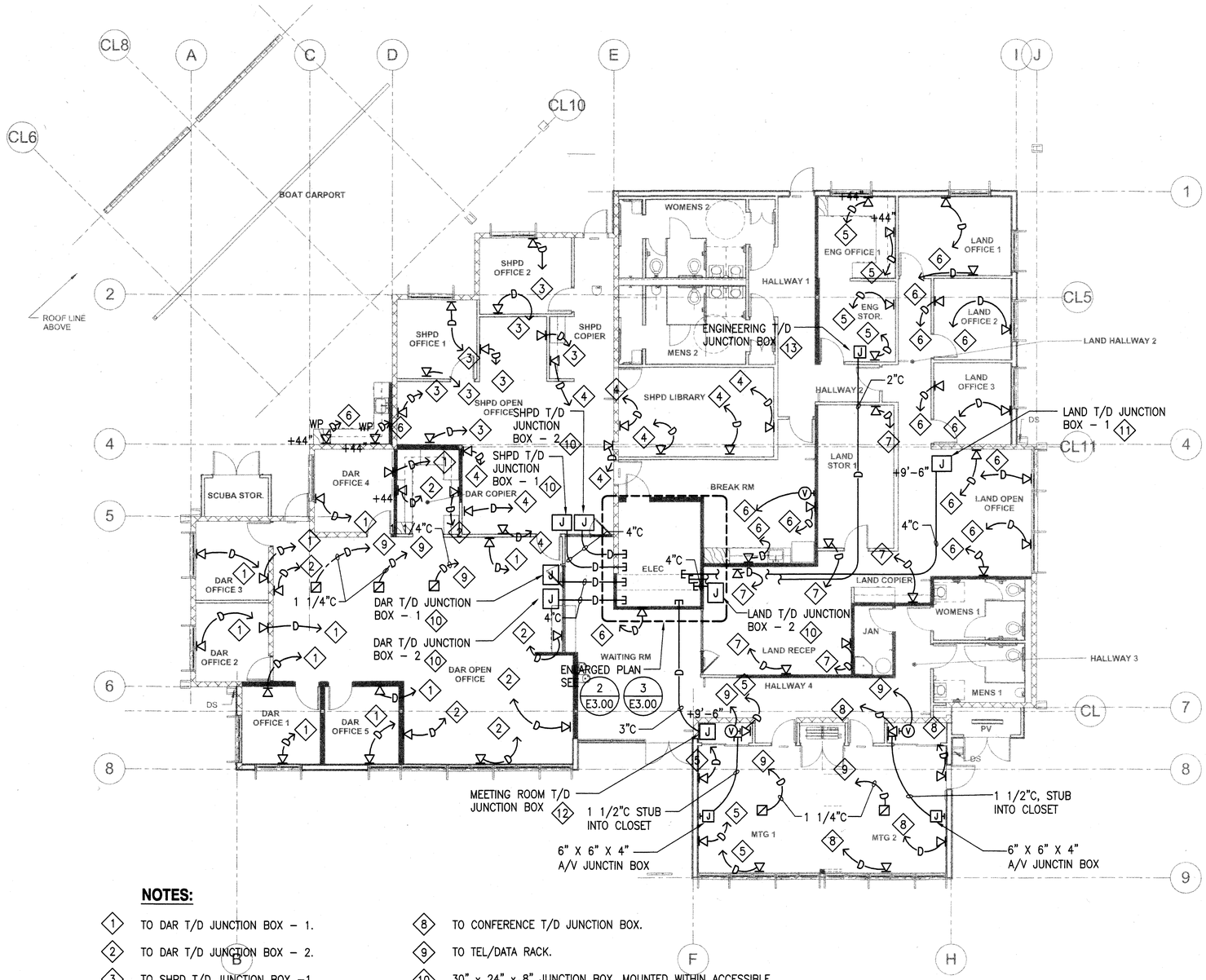
APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. E2.03

JOB NO. J43CM74A

SHEET NO. 134 OF 152 SHEETS

3/17/16-11:27 Y:\148\148.026\148.026 E2.03.LP01.dwg

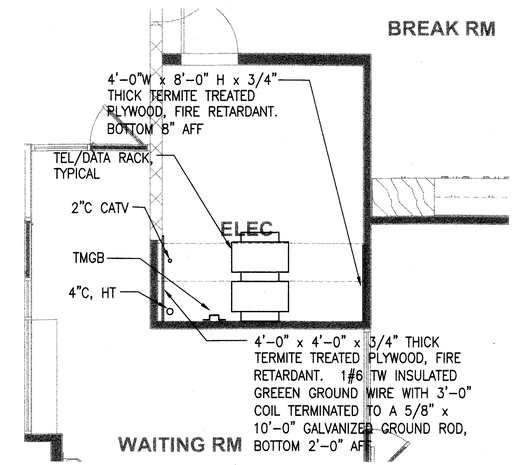


NOTES:

1. TO DAR T/D JUNCTION BOX – 1.
2. TO DAR T/D JUNCTION BOX – 2.
3. TO SHPD T/D JUNCTION BOX –1.
4. TO SHPD T/D JUNCTION BOX – 2.
5. TO ENGINEERING T/D JUNCTION BOX.
6. TO LAND T/D JUNCTION BOX – 1.
7. TO LAND T/D JUNCTION BOX – 2.
8. TO CONFERENCE T/D JUNCTION BOX.
9. TO TEL/DATA RACK.
10. 30" x 24" x 8" JUNCTION BOX, MOUNTED WITHIN ACCESSIBLE CEILING SPACE.
11. 30" x 24" x 8" JUNCTION BOX.
12. 24" x 24" x 8" JUNCTION BOX.
13. 18" x 18" x 6" JUNCTION BOX, MOUNTED WITHIN ACCESSIBLE CEILING SPACE.

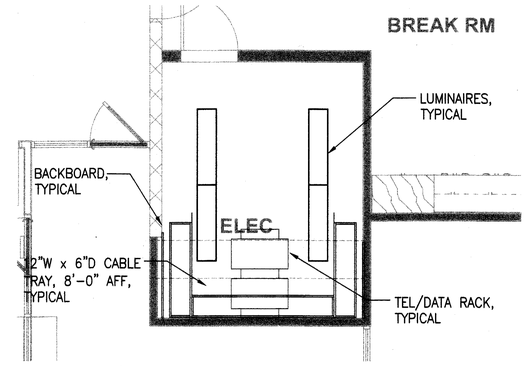
1 E3.00 MAIN FACILITY SIGNAL PLAN

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



2 E3.00 ENLARGED ELECTRICAL ROOM PLAN

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



ENLARGED ELECTRICAL ROOM CEILING PLAN

3 E3.00 SCALE: 1/4" = 1'-0"

GRAPHIC SCALE

5' 0 5' 10' 15'

1/4" = 1'-0"

5' 0 5' 10' 15' 20' 25' 30' 35' 40'

1/8" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

MAIN FACILTIY SIGNAL PLANS

MICHELE N. ADOLPHO
LICENSED PROFESSIONAL ENGINEER
No. 10017-E
HAWAII, U.S.A.

APRIL 30, 2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DESIGNED:	RP	SUBMITTED:	
DRAWN:	MC	DATE:	03/15/2016
CHECKED:	MA	SCALE:	AS SHOWN

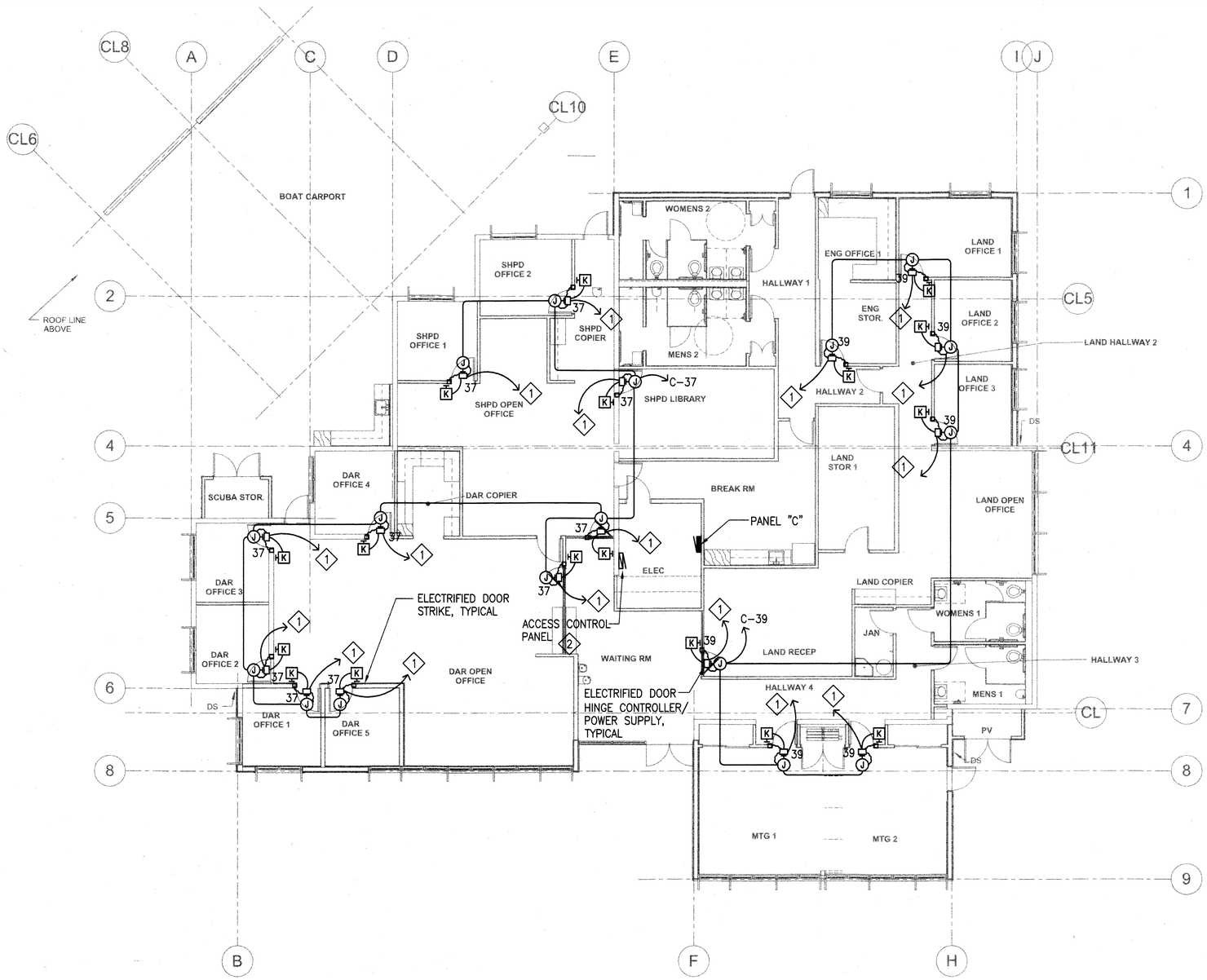
APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. E3.00

JOB NO. J43CM74A

SHEET NO. 135 OF 152 SHEETS

3/17/16-11:27 Y:\148\148.026\148.026 E3.00.C01.dwg



MAIN FACILTIY ACCESS CONTROL PLAN

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

NOTES:

1. 1"C WITH PULL STRING TO ACCESS CONTROL PANEL.
2. PROVIDED BY THE STATE'S ACCESS CONTROLLER SYSTEM CONTRACTOR.

GRAPHIC SCALE

5' 0 5' 10' 15' 20' 25' 30' 35' 40'

1/8" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

MICHELE N. ADOLPHO
LICENSED PROFESSIONAL ENGINEER
No. 10017-E
HAWAII, U.S.A.

APRIL 30, 2016
EXP. DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

MAUI OFFICE ANNEX
WAILUKU, MAUI, HAWAII

MAIN FACILITY ACCESS CONTROL PLAN

DESIGNED:	RP	SUBMITTED:	
DRAWN:	MC	DATE:	03/15/2016
CHECKED:	MA	SCALE:	AS SHOWN

APPROVED:
CHIEF ENGINEER
MAR 2 3 2016
DATE

DRAWING NO. E3.01

JOB NO. J43CM74A

SHEET NO. 136 OF 152 SHEETS

3/17/16-11:26 Y:\148\148.026\148.026 E3.01 ACC01.dwg