

STATE OF HAWAII
 DEPARTMENT OF LAND AND NATURAL RESOURCES
 ENGINEERING DIVISION

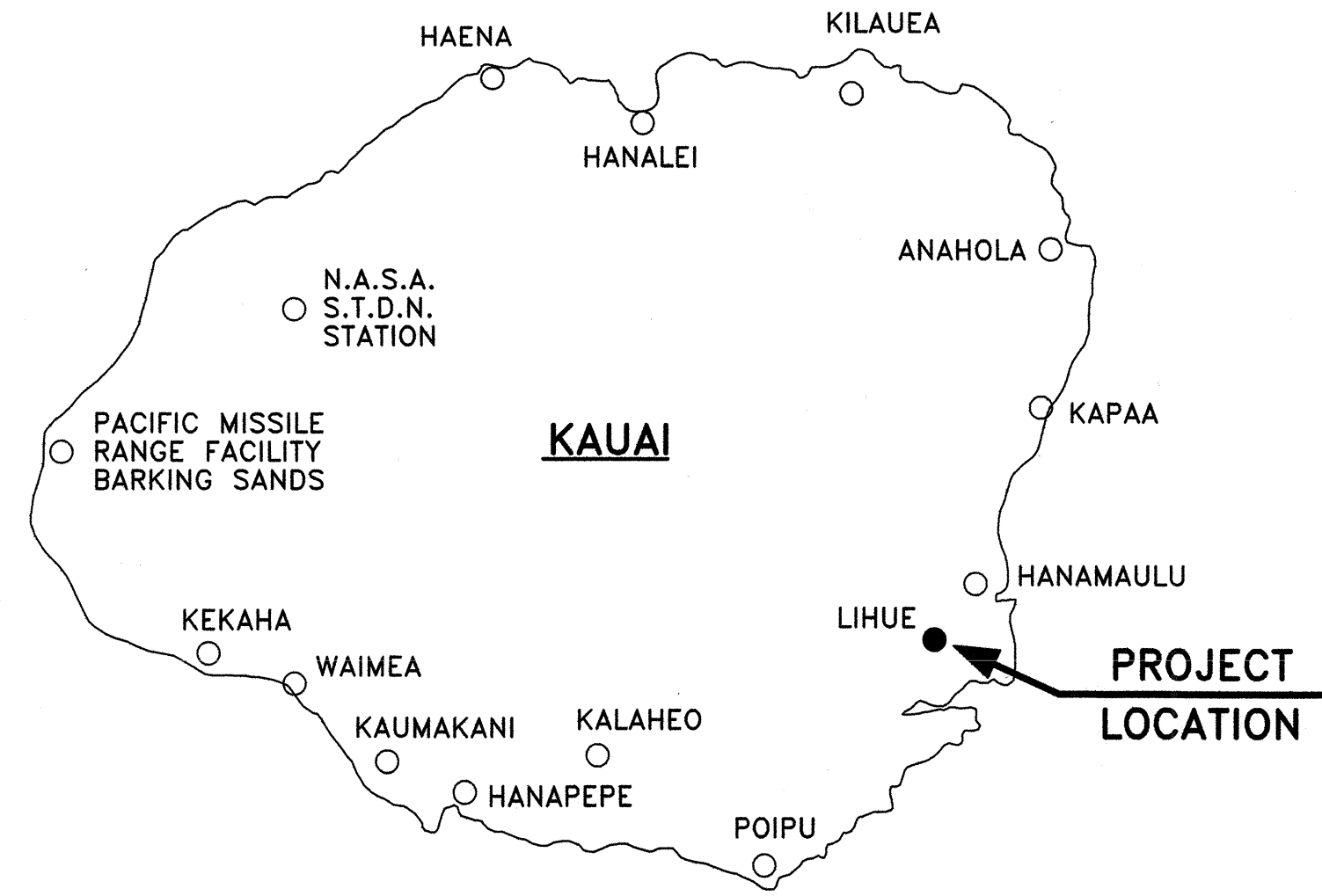
FOR
 DIVISION OF FORESTRY AND WILDLIFE

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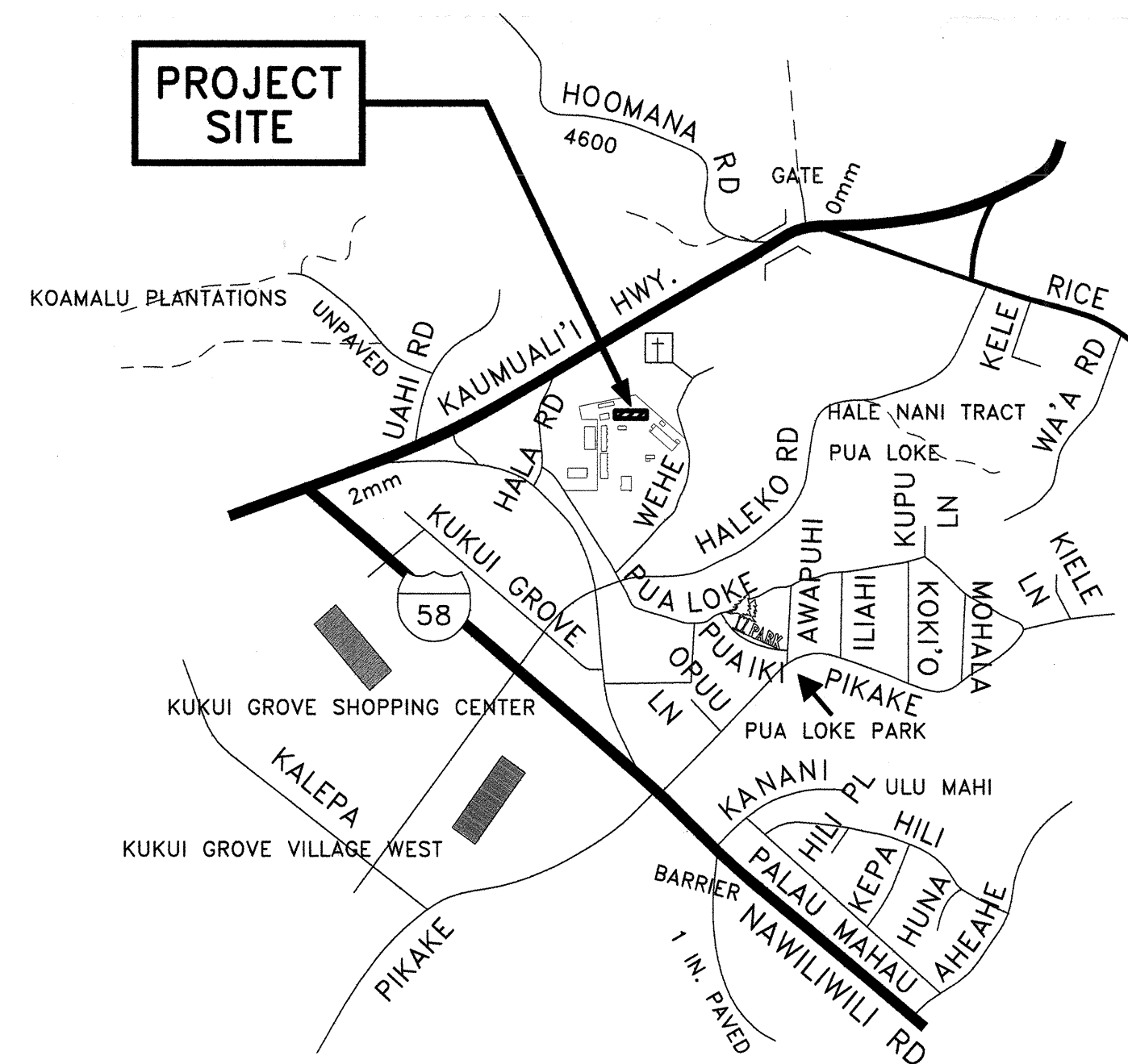
KAUAI BASEYARD IMPROVEMENTS

LIHUE, KAUAI, HAWAII

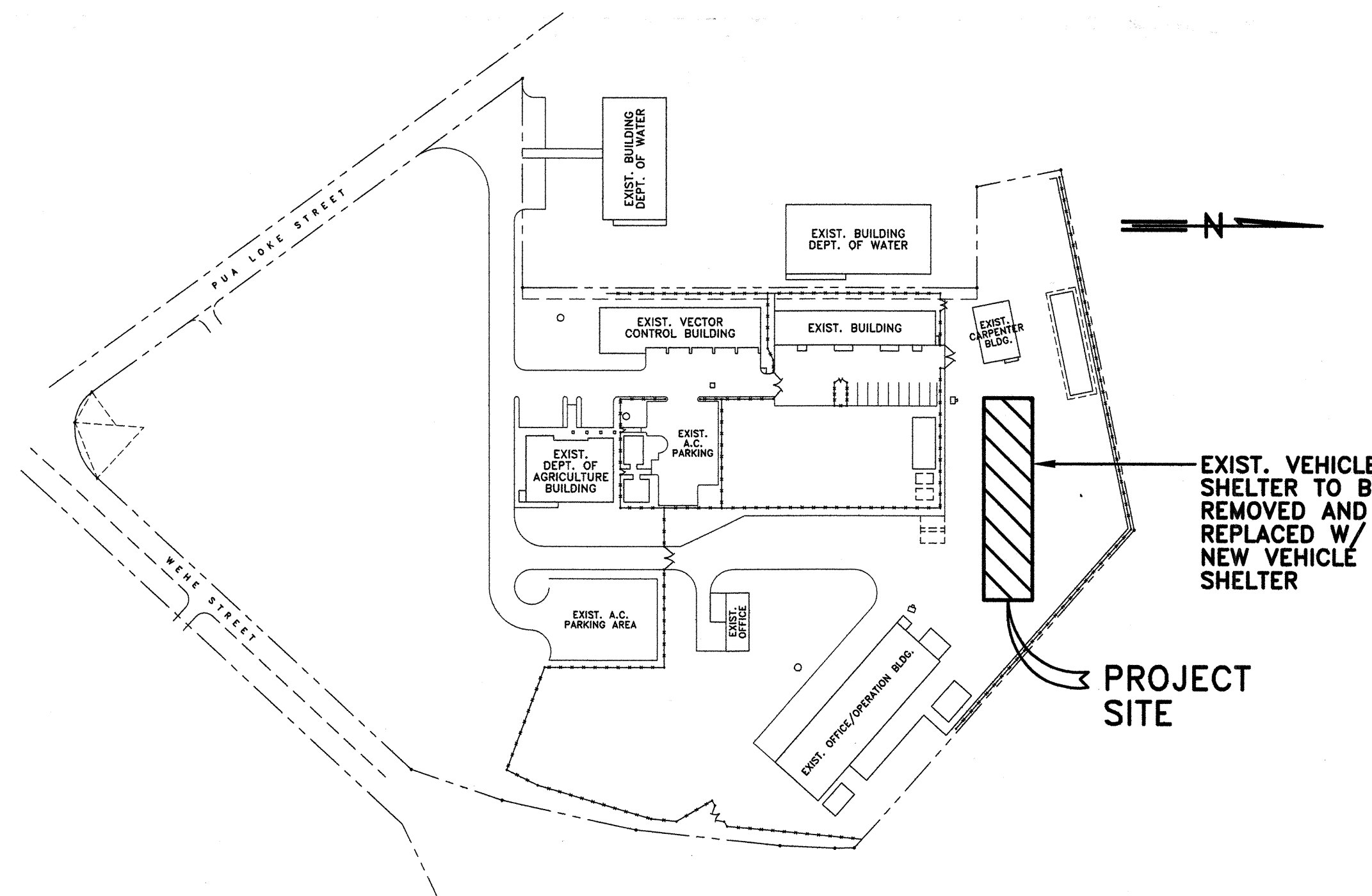
TAX MAP KEY: (4) 3 - 8 - 05 : 2



ISLAND OF KAUAI
 NOT TO SCALE



LOCATION MAP
 NOT TO SCALE



SITE PLAN
 NOT TO SCALE

APPROVED: *[Signature]* DATE: 4/26/16

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 DEPARTMENT OF LAND AND NATURAL RESOURCES

APPROVED: *[Signature]* DATE: 4/26/16

CARTY S. CHANG, P.E.
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 DEPARTMENT OF LAND AND NATURAL RESOURCES

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GENERAL NOTES

A. GENERAL NOTES

- ALL APPLICABLE CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1986, AND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1984, AS AMENDED, OF THE DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF HONOLULU AND THE COUNTIES OF KAUAI, MAUI AND HAWAII, CITY AND COUNTY OF HONOLULU BOARD OF WATER SUPPLY'S "WATER SYSTEM STANDARDS" DATED 2002, THE "WATER SYSTEM EXTERNAL CORROSION CONTROL STANDARDS", VOLUME 3, DATED 1991, AND ALL SUBSEQUENT AMENDMENTS AND ADDITIONS AND THE CURRENT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" OF THE STATE HIGHWAYS DIVISION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS" AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL", AS AMENDED. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL HIS WORK WITH THE ENGINEER AND DLNR DIVISION OF FORESTRY AND WILDLIFE (DOFAW) SO AS NOT TO DISRUPT THE OPERATIONS OF THE EXISTING FACILITIES.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES WHETHER SHOWN ON THE CONTRACT PLAN OR NOT. BEFORE DISRUPTING SERVICE OF ANY UTILITY, THE CONTRACTOR SHALL CONTACT THE ENGINEER AND DLNR DOFAW AND APPROPRIATE RESPONSIBLE UTILITY AUTHORITY. DAMAGE TO THE UTILITIES AS A RESULT OF HIS CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
- EXISTING UTILITIES THAT ARE TO REMAIN IN USE, WHETHER OR NOT SHOWN ON THE DRAWINGS, SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO SUCH EXISTING UTILITIES SHALL BE REPAIRED AND PAID FOR BY THE CONTRACTOR.
- UNLESS RELOCATION IS CALLED FOR, EXISTING UTILITIES SHALL REMAIN IN SERVICE AND IN PLACE. IF RELOCATION OF EXISTING UTILITIES IS REQUIRED BY THE CONTRACTOR, INTERRUPTION OF SERVICE SHALL BE KEPT TO A MINIMUM AND SHALL BE DONE AT THE CONTRACTOR'S EXPENSE AND ONLY WITH THE ACCEPTANCE OF THE STATE. THE CONTRACTOR SHALL MAINTAIN POTABLE WATER, SEWER, ELECTRICAL AND TELECOMMUNICATION SERVICES TO ALL EXISTING BUILDINGS AND FACILITIES AT ALL TIMES.
- THE CONTRACTOR'S ACCESS TO AND MOVEMENT WITHIN THE AREAS OF WORK SHALL BE COORDINATED WITH THE ENGINEER AND DLNR DOFAW.
- THE CONTRACTOR WILL BE REQUIRED TO ARRANGE HIS WORK SO AS TO MINIMIZE INTERFERENCE WITH PUBLIC, LOCAL TRAFFIC AND WORKING OPERATIONS OF THE BUSINESSES WITHIN THE AREA.
- DO NOT STORE MATERIALS OR EQUIPMENT, OR OPERATE OR PARK EQUIPMENT NEAR OR UNDER THE BRANCHES OF EXISTING PLANTS AND TREES THAT ARE TO REMAIN, EXCEPT AS REQUIRED FOR CONSTRUCTION IN THOSE AREAS. THE CONTRACTOR SHALL PROTECT ALL EXISTING TREES TO REMAIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE RESULTING FROM HIS OPERATIONS AND REPAIR OR REPLACE SUCH DAMAGE AT CONTRACTOR'S EXPENSE. REPAIR DAMAGE IN A MANNER SATISFACTORY TO THE ENGINEER.
- SAFETY BARRIERS AND APPROPRIATE WARNING SIGNS AND DEVICES SHALL BE PROVIDED AT ALL TIMES FOR THE SAFETY OF PEDESTRIANS AND/OR VEHICLES. THE CONTRACTOR SHALL PROVIDE SAFE ACCESS TO AND FROM ALL DRIVEWAYS, ROADWAYS, WALKWAYS AND ALL DOFAW FACILITIES.
- THE CONTRACTOR SHALL FIELD VERIFY AND CHECK ALL DIMENSIONS, DETAILS, AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND FABRICATION OF ALL MEMBERS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- CONTRACTOR WILL FOLLOW APPLICABLE RULES AND REGULATIONS REGARDING NOISE, DUST CONTROL, VEHICULAR EQUIPMENT AND PROJECT RELATED ACTIONS. IF EXCAVATION WORK UNCOVERS BONES OR OTHER CULTURAL FEATURES, CONTRACTOR WILL STOP WORK AT THAT LOCATION ON THE SITE UNTIL APPROPRIATE AUTHORITIES CAN CHECK THE SITUATION (SEE NOTE 17).
- EXPOSED AREAS SHALL BE BACKFILLED WITH A MINIMUM OF 6 INCHES OF TOPSOIL AND GRASSED. EXPOSED AREAS SHALL BE DEFINED AS THOSE AREAS WHERE DISTURBANCE OCCURS DUE TO DEMOLITION, REMOVAL, OR TRENCHING AND WHERE NO STRUCTURES OR PAVEMENTS ARE TO BE CONSTRUCTED.
- THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES. ALL DAMAGES SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE STATE AND TO THE SATISFACTION OF THE ENGINEER. REPAIRS TO ACCOMMODATE NEW CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE NEW WORK.
- CONTRACTOR SHALL ALLOW FOR CONSTRUCTION TOLERANCE IN ORDER TO MEET THE MINIMUM AND MAXIMUM REQUIREMENTS AS INDICATED IN THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS.
- PURSUANT TO CHAPTER 6E, HRS. IN THE EVENT ANY ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND WORK AND NOTIFY THE KAUAI POLICE DEPARTMENT AND THE STATE DEPT. OF LAND AND NATURAL RESOURCES - HISTORIC PRESERVATION DIVISION (692-8015).
- PROVIDE SAFEGUARDS AND EXERCISE CAUTION AGAINST INJURY OR DEFACEMENT OF EXISTING SITE IMPROVEMENTS. VEHICLES SHALL NOT PASS OVER WALKWAYS AND CURBS, UNLESS PROTECTION HAS BEEN PROVIDED.

- THE DOFAW FACILITY NEARBY WILL BE IN OPERATIONAL DURING THE CONSTRUCTION WORK. THE CONTRACTOR SHALL INSTALL ADEQUATE TEMPORARY BARRICADES AND WARNING SIGNS TO PROTECT THE PUBLIC DURING THE CONSTRUCTION PERIOD.
- USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER DRAWINGS. THE CONTRACTOR SHALL COORDINATE THE WORK OF OTHER TRADES INCLUDING, BUT NOT LIMITED TO THE REQUIREMENTS FOR SLEEVES, INSERTS, HOLES, HANGERS, AND ANCHORS BEFORE STARTING ANY CONSTRUCTION.
- REPORT DISCREPANCIES IN DIMENSIONS BETWEEN DIFFERENT DRAWINGS TO THE ENGINEER PRIOR TO BEGINNING WORK IN AREAS THAT WILL BE AFFECTED.
- DETAILS ENTITLED OR NOTED AS "TYPICAL" APPLY NOT ONLY WHERE SPECIFICALLY INDICATED OR REFERENCED, BUT ALSO IN ALL OTHER CASES WHERE THE NATURE OF THE CONSTRUCTION REQUIRES THEIR USE. DETERMINE APPLICABILITY OF TYPICAL DETAILS FROM DESCRIPTIVE TITLES OR FROM THE SIMILARITY OF A CONSTRUCTION CONDITION TO ANOTHER CONDITION WHERE THE DETAIL IS SPECIFICALLY INDICATED OR REFERENCED.
- PROVIDE TEMPORARY BRACING AND SHORING OF THE STRUCTURE AND COMPONENTS UNTIL ALL COMPONENTS ARE ERECTED AND ALL CONNECTIONS ARE FULLY MADE, AS NECESSARY, TO ENSURE STABILITY DURING CONSTRUCTION. BRACE ALL WALLS DURING CONSTRUCTION AGAINST WIND AND/OR CONSTRUCTION LOADS.
- REPRODUCTION OF CONTRACT DRAWINGS SHALL NOT BE USED AS SHOP DRAWINGS UNDER ANY CIRCUMSTANCE.
- THE CONTRACTOR SHALL HAVE THE BUILDING MATERIALS FOR THE NEW VEHICLE SHELTER AVAILABLE FOR INSPECTION BY THE ENGINEER AT THE PROJECT SITE OR AT HIS BASE YARD PRIOR TO BEGINNING THE DEMOLITION WORK.
- THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL, TELEPHONE AND CABLE UTILITY WORK WITH THE UTILITY COMPANIES PRIOR TO STARTING WORK. THE CONTRACTOR SHALL PAY FOR ALL UTILITY COMPANIES' CHARGES UNTIL THE PROJECT IS COMPLETED AND ACCEPTED BY THE STATE.

B. SPECIAL INSPECTION REQUIREMENTS

CONTRACTOR SHALL HIRE, AT HIS OWN EXPENSE, ONE OR MORE LICENSED SPECIAL INSPECTORS INDEPENDENT TO THE CONTRACTORS PERFORMING THE WORK. THE SPECIAL INSPECTOR SHALL PROVIDE INSPECTION DURING CONSTRUCTION ON THE FOLLOWING TYPES OF WORK:

- CONCRETE
- BOLTS INSTALLED IN CONCRETE
- REINFORCING STEEL
- STRUCTURAL WELDING
- HIGH-STRENGTH BOLTING
- STRUCTURAL MASONRY

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR SHALL BE TO:

- OBSERVE WORK ASSIGNED FOR CONFORMANCE WITH APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
- FURNISH INSPECTION REPORTS TO THE STATE, THE ENGINEER OR ARCHITECT OF RECORD, AND OTHER STATE-DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL.
- SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE. ALSO, INDICATE THE TYPE OF WORK THAT WAS INSPECTED. THIS REPORT SHALL BE SUBMITTED PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
INDEX & GENERAL NOTES					
DESIGNED: ATO		SUBMITTED: <i>ca</i>			
DRAWN: RMA/LC		DATE: 03/07/2016			
CHECKED: ATO		SCALE:		AS SHOWN	
APPROVED: <i>[Signature]</i>		APR 26 2016		DRAWING NO.	
CHIEF ENGINEER		DATE		S - 1	

02/26/2016

GENERAL NOTES - CONT.

C. LEAD PAINT REMOVAL WORK FOR EXISTING BUILDING TO BE DEMOLISHED

- SEE SPECIFICATIONS FOR LEAD PAINT REMOVAL WORK.

D. DESIGN LOADS

- STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE FOLLOWING CODES AND SPECIFICATIONS:
 - 2006 INTERNATIONAL BUILDING CODE
 - ASCE 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
 - AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" DATED MARCH 1, 2005
 - ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
- DESIGN LOAD CRITERIA
 - LIVE LOADS:

GROUND FLOOR SLAB-ON-GRADE	400 PSF
REPAIR BAY/MAINTENANCE AREA	400 PSF
COLLATERAL LOAD FOR PEMB	10 PSF
ROOF	20 PSF
 - WIND LOADS:

BASIC WIND SPEED 3 SECOND GUST, V	115 MPH
OCCUPANCY CATEGORY	I
WIND LOAD IMPORTANCE FACTOR, I _w	1.0
WIND EXPOSURE CATEGORY	C
GUST EFFECT FACTOR, G	0.85
WIND TOPOGRAPHIC FACTOR, K _{zt}	1.20
K _d	0.85
K _z	0.98
 - SEISMIC LOADS:

OCCUPANCY CATEGORY	I
SEISMIC IMPORTANCE FACTOR, I _e	1.0
MAPPED SPECTRAL RESPONSE ACCELERATION, S _s	0.23g
MAPPED SPECTRAL RESPONSE ACCELERATION, S ₁	0.07g
SPECTRAL RESPONSE COEFFICIENT, S _{ds}	0.247g
SPECTRAL RESPONSE COEFFICIENT, S _{d1}	0.112g
SITE CLASS	D
SEISMIC DESIGN CATEGORY	B
 - FOUNDATION:

ALLOWABLE SOIL BEARING CAPACITY	2500 PSF
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E. CONCRETE

- ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI) SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301-10). ALL CONCRETE DESIGN PERFORMED BY THE CONTRACTOR SHALL BE IN ACCORDANCE WITH ACI 318-10.
- CAST-IN-PLACE CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'_c):
 - FOOTINGS AND PEDESTALS 4000 PSI
 - VEHICLE SLAB-ON-GRADE FOR COVERED BUILDING 6000 PSI
 - ALL OTHER CONCRETE 4000 PSI
- CONCRETE DENSITY SHALL BE NORMAL WEIGHT.
- CONCRETE REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615/A615M, GRADE 60 AND SHALL HAVE FABRICATION TOLERANCES IN ACCORDANCE WITH ACI 315. SHOP FABRICATE REINFORCING BARS WHICH ARE INDICATED TO BE BENT OR HOOKED.
- CONCRETE REINFORCING STEEL SHALL BE CONTINUOUS UNLESS OTHERWISE INDICATED. CONTINUOUS REINFORCING STEEL SHALL BE LAPPED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-10.
- MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS INDICATED. IN NO CASE SHALL REINFORCEMENT COVER BE LESS THAN THE REQUIREMENTS OF ACI 318-10.
 - CONCRETE CAST AGAINST OR PERMANENTLY EXPOSED TO EARTH 3"
 - CONCRETE EXPOSED TO EARTH OR WEATHER:

#6 THRU #18 BARS	2"
#3 - #5	1 1/2"
 - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:

SLABS AND WALLS:	
#11 AND SMALLER	3/4"

- CONCRETE REINFORCING STEEL MARKED STANDARD HOOK SHALL HAVE A 90 DEGREE HOOK A MINIMUM OF 12 BAR DIAMETERS IN LENGTH, UNLESS OTHERWISE NOTED. STIRRUPS, TIES, AND 180 DEGREE HOOKS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318.
- PROVIDE 1/2" THICK JOINT FILLER MATERIAL WHERE SLABS ON GRADE ABUT VERTICAL SURFACES.
- ALL EMBEDDED ITEMS SHALL BE PROPERLY PLACED, ACCURATELY POSITIONED AND MAINTAINED SECURELY IN PLACE PRIOR TO AND DURING CONCRETE PLACEMENT.
- REINFORCING STEEL SHALL BE SPREAD AT SLEEVES, ANCHORS, RECESSES AND OTHER EMBEDDED ITEMS UNLESS OTHERWISE INDICATED. REINFORCEMENT SHALL NOT BE CUT TO FACILITATE PLACEMENT OF EMBEDDED ITEMS, UNLESS INDICATED.
- NO CONCRETE SHALL BE PLACED UNTIL THE DESIGNATED REPRESENTATIVE HAS INSPECTED ALL EMBEDDED WORK, INCLUDING REINFORCEMENT.
- ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4" OR AS INDICATED.
- ALUMINUM SHALL NOT BE PLACED IN DIRECT CONTACT WITH CONCRETE UNLESS EFFECTIVELY COATED OR COVERED TO PREVENT ALUMINUM-CONCRETE REACTION AND ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.

F. FOUNDATION

- PLACE FOUNDATION CONCRETE THE SAME DAY APPROVED BY THE ENGINEER OR AS SOON AS PRACTICAL THEREAFTER.
- ADEQUATELY PROTECT FOUNDATION EXCAVATIONS TO PREVENT WATER FROM ACCUMULATING AND STANDING IN THE EXCAVATION BOTTOMS.
- DO NOT PLACE FOUNDATION CONCRETE ON SATURATED SUBGRADES.
- ENSURE THAT EARTH-FORMED FOOTINGS CONFORM TO THE SHAPE, LINES, AND THICKNESSES INDICATED ON THE FOUNDATION PLAN, SECTIONS, AND FOOTING SCHEDULES. EXCAVATIONS WIDTHS SHALL BE A MINIMUM OF 4" GREATER THAN DIMENSIONS INDICATED.
- DO NOT INSTALL FOUNDATIONS UNTIL FOUNDATION WORK HAS BEEN COORDINATED WITH ADJACENT UNDERGROUND UTILITIES.
- ALL FOOTINGS HAVE BEEN DESIGNED TO BEAR ON UNDISTURBED SOIL AT AT DEPTHS INDICATED.
- BUILDING FOUNDATION WORK SHALL NOT COMMENCE UNTIL PRE-ENGINEERED BUILDING SHOP DRAWINGS HAVE BEEN APPROVED BY THE ENGINEER.

G. REINFORCING STEEL

- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, DEFORMED BARS. #4 AND LARGER SHALL BE GRADE 60 F_y = 60 KSI #3 TIES OR STIRRUPS SHALL BE GRADE 40 KSI
- BENDS NOT DIMENSIONED SHALL BE STANDARD HOOKS.
- ALL BARS MARKED CONT. (CONTINUOUS) ON PLANS SHALL BE LAPPED 48 BAR DIAMETERS AT ALL SPLICES, LAPS, INTERSECTIONS, AND CORNERS UNLESS OTHERWISE NOTED. LAP CONTINUOUS TOP BARS MIDWAY BETWEEN SUPPORTS AND BOTTOM BARS OVER SUPPORTS.
- ALL REINFORCING BARS SHALL BE TIED IN PLACE BEFORE POURING CONCRETE.
- ALL REINFORCING STEEL SHALL CONFORM TO ACI 318 CODE REQUIREMENTS.

H. NON-SHRINK GROUT

- NON-SHRINK GROUT SHALL CONFORM TO ASTM C 1107, GRADE AS APPROPRIATE FOR APPLICATION.

I. EPOXY FOR EMBEDDING THREADED RODS IN CONCRETE

- EPOXY SHALL CONFORM TO ASTM C-881. TYPE AND METHOD SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

J. PRE-ENGINEERED BUILDING SYSTEM (PEB)

- PRE-ENGINEERED METAL BUILDING SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH METAL BUILDING MANUFACTURERS ASSOCIATION, MBMA-01, LOW RISE BUILDING SYSTEMS MANUAL.
- METAL BUILDINGS SHALL BE THE PRODUCT OF A RECOGNIZED METAL BUILDING SYSTEMS MANUFACTURER WHO HAS BEEN IN THE PRACTICE OF MANUFACTURING METAL BUILDINGS FOR A PERIOD OF NO LESS THAN 5 YEARS.
- THE CONTRACTOR SHALL PROVIDE AND SIZE ALL NECESSARY MATERIALS FOR THE METAL BUILDING SYSTEM INCLUDING ALL ANCHOR BOLTS FOR THE COLUMN FOUNDATIONS AT THE CONTRACTOR'S EXPENSE.
- THE PRE-ENGINEERED BUILDING COLUMNS SHALL BE PINNED BASES AND SHALL TRANSFER NO MOMENTS TO THE FOUNDATIONS. THE PRE-ENGINEERED BUILDING SHALL BE DESIGNED BY THE MANUFACTURER FOR A COLLATERAL LOAD OF 10 POUNDS PER SQUARE FOOT. IN ADDITION, THE PRE-ENGINEERED BUILDING SHALL BE DESIGNED TO ACCOMMODATE ALL MECHANICAL, ELECTRICAL EQUIPMENT HANGER, AND PHOTOVOLTAIC (PV) PANELS.
- DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER PRIOR TO FABRICATION. CALCULATIONS AND SHOP DRAWINGS SHALL BE PREPARED, STAMPED AND SIGNED BY A STATE OF HAWAII LICENSED REGISTERED STRUCTURAL ENGINEER. THIS COST SHALL BE PAID FOR BY THE CONTRACTOR. THE SIGNATURE SHALL HAVE A STATEMENT "THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION".
- PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL BE DESIGN AND PROVIDE A PORTAL FRAME SYSTEM FOR LATERAL LOAD STABILITY FOR THE STRUCTURE.
- ROOF PURLINS AND GIRTS SHALL BE OF LIGHT GAGE COLD FORM STEEL WITH THE FOLLOWING MINIMUM YIELD STRENGTH OF 50,000 PSI WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:

8 x 14 GAGE ZEE PURLINS/GIRTS	S _x = 2.60 IN ³
8 x 14 GAGE CEE PURLINS	S _x = 3.40 IN ³

K. STRUCTURAL STEEL - (ALL STEEL EXCLUDING PEB)

- FABRICATION AND ERECTION OF STRUCTURAL STEEL AND DESIGN OF CONNECTIONS SHALL BE IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" DATED MARCH 9, 2005 AND THE AISC "CODE OF STANDARD PRACTICE FOR BUILDINGS AND BRIDGES", DATED MARCH 18, 2005.
- UNLESS OTHERWISE NOTED, STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE ABOVE-LISTED AISC SPECIFICATION AND THE FOLLOWING:
 - SQUARE AND RECTANGULAR HSS ASTM 500, GRADE B, F_y=46 KSI
 - ROUND HSS ASTM 500, GRADE B, F_y=42 KSI
 - WIDE-FLANGE SHAPES AND TEES ASTM A992
 - CHANNELS AND S-SHAPES ASTM A572/A572, GRADE 50
 - PLATES AND ANGLES ASTM A36/A36M
 - HIGH STRENGTH BOLTS ASTM A325
 - HOOKEED ANCHOR RODS ASTM F1554, GRADE 36
 - ANCHOR RODS w/ NUT AND WASHER ASTM F1554, GRADE 36
 - THREADED ROD ASTM A36/A36M
- ALL SHOP AND FIELD WELDING SHALL BE BY CERTIFIED WELDERS AND SHALL CONFORM TO AWS STANDARDS. USE E70XX ELECTRODES UNLESS OTHERWISE NOTED. CURRENT AWS CERTIFICATIONS SHALL BE AVAILABLE AT THE JOB SITE FOR REVIEW BY THE OWNER'S REPRESENTATIVE.
- ALL BOLTED CONNECTIONS, UNLESS OTHERWISE NOTED, SHALL USE ASTM A325 HIGH-STRENGTH BOLTS WITH HARDENED CARBON STEEL WASHERS AS REQUIRED FOR THE CONNECTION LOADS. FOR CONNECTIONS NOT DETAILED AND OTHERS REQUIRED BY THE ERECTION PROCEDURES, THE FABRICATOR SHALL SUBMIT DETAILS AND CALCULATIONS TO THE ENGINEER OF RECORD FOR APPROVAL.

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STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
GENERAL NOTES					
DESIGNED: ATO		SUBMITTED: <i>gc</i>			
DRAWN: RMA/LC		DATE: 03/07/2016			
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APPROVED: <i>Arnold J. Oshida</i>		CHIEF ENGINEER		APR 26 2016 DATE	DRAWING NO. S-2
Expiration date of the license: 04/30/2016					

GENERAL NOTES – CONT.

5. FIELD CUTTING OF STRUCTURAL STEEL MEMBERS BY ANY TRADE SHALL NOT BE PERMITTED. BOLT HOLES SHALL NOT BE CUT OR ENLARGED BY FLAME CUTTING IN THE FIELD.
6. ALL FIELD-BOLTED SHEAR CONNECTIONS SHALL BE SNUG TIGHT BEARING-TYPE CONNECTIONS, THREADS INCLUDED IN SHEAR PLANE.
7. CONNECTION DESIGN IS DELEGATED TO THE CONTRACTOR. SUBMIT CALCULATIONS ALONG WITH THE SHOP DRAWINGS FOR CONNECTIONS OTHER THAN SIMPLE SHEAR CONNECTIONS.

L. MASONRY

1. CONCRETE MASONRY UNITS (CMU) SHALL BE THE TWO CORE LOAD BEARING TYPE CONFORMING TO ASTM C90-94, GRADE N-11. UNIT SHALL BE CURED BEFORE INSTALLATION. PROVIDE JAMBS, SILLS, LINTELS, CORNERS, AND OTHER REQUIRED MASONRY UNITS OF STANDARD SHAPES. ULTIMATE COMPRESSIVE STRENGTH, f'_m = 1,500 PSI.
2. MORTAR: 2,500 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS TYPE "M".
3. GROUT: 2,500 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
4. REINFORCING:
 - a. ALL CMU WALLS SHALL BE REINFORCED WITH 2 - #5 VERTICAL REINFORCING BARS AT 16" MINIMUM SPACING. ADD 2 - #4 HORIZONTAL REINFORCING BARS AT 48" O.C. UNLESS OTHERWISE NOTED. GROUT ALL CELLS SOLID THROUGHOUT.
5. USE 2 - #5 VERTICAL AT ALL CORNERS, JAMBS, INTERSECTIONS, MULLIONS, AND DISCONTINUOUS ENDS.
6. INSTALL NO. 9 GAUGE HORIZONTAL JOINTS REINFORCING CONFORMING TO ASTM A82 AT 16" O.C. UNLESS OTHERWISE SHOWN ON THE PLANS. LAP 12" MINIMUM AT SPLICES, CORNERS, AND INTERSECTIONS.

M. CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND, SURFACE, AND OVERHEAD UTILITIES AND STRUCTURES WITHIN AND ADJACENT TO THE PROJECT SITE DURING ALL CONSTRUCTION WORK INCLUDING EXCAVATION/BACKFILLING WORK. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE.
2. NO PENETRATIONS WILL BE ALLOWED THROUGH ANY STRUCTURAL MEMBERS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
3. ALL CONSTRUCTION WORK AND DESIGN SHALL BE DONE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC), 2003 EDITION.
4. THE CONTRACTOR SHALL DETAIL, FURNISH, AND INSTALL ALL MEMBERS, CONNECTIONS, AND ACCESSORIES NOT SHOWN BUT WHICH ARE REQUIRED TO COMPLETE THE WORK AND SHALL SUBMIT THEM TO THE ENGINEER FOR APPROVAL. COST OF THESE MEMBERS, CONNECTIONS, AND ACCESSORIES SHALL BE INCLUDED IN THE CONTRACTORS BID PRICE. THE CONTRACTOR SHALL PERFORM HIS WORK IN A WORKMANLIKE MANNER.
5. THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES BEFORE STARTING ANY CONSTRUCTIONS.
6. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, ANCHORS, ETC. RELATING TO THE GENERAL WORK BEFORE COMMENCING WORK.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, BOLT LAYOUTS, DETAILS INDICATED ON THE PLANS PRIOR TO ORDERING OF THE BUILDING MATERIALS.
8. THE DOFAW FACILITY SHALL REMAIN OPEN DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PROVIDE FULL COOPERATION WITH THE DIVISION OF FORESTRY AND WILDLIFE (DOFAW) TO EFFECTIVELY MAINTAIN SUCH USE OF THE DOFAW FACILITIES. THE CONTRACTOR SHALL INSTALL ADEQUATE TEMPORARY BARRICADES AND SIGN TO PROTECT THE PUBLIC DURING THE CONSTRUCTION PERIOD. PROVIDE AND MAINTAIN A SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY BARRICADES AND WARNING SIGNS SHALL BE VISIBLE AND PROVIDE ADEQUATE WARNING AND PROTECTION DURING THE NIGHT AND DAY.
9. ONE LANE OF TRAFFIC SHALL BE OPEN AT ALL TIMES FOR VEHICLE ACCESS TO THE DOFAW FACILITIES.
10. UNLESS OTHERWISE NOTED, ALL EXISTING PAVEMENT, UTILITY LINES, AND OTHER IMPROVEMENTS DAMAGED OR UNDERMINED AS A RESULT OF THE CONTRACTORS OPERATIONS, SHALL BE RECONSTRUCTED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE TO MATCH EXISTING CONDITIONS.
11. ALL VISIBLE UTILITY STRUCTURES HAVE BEEN LOCATED IN THE FIELD, HOWEVER, CONNECTIONS TO UNDERGROUND UTILITY LINES AS SHOWN ARE UNVERIFIED AND COMPILED FROM EXISTING DATA. UNDERGROUND UTILITIES SHOWN HEREON ARE FOR INFORMATION ONLY, HAVING BEEN OBTAINED FROM THE BEST AVAILABLE SOURCES. NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PAY FOR ALL DAMAGED UTILITIES. CONTRACTOR SHALL TONE ALL UTILITY LINES TO VERIFY LOCATIONS PRIOR TO COMMENCING WORK.

12. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF THE PUBLIC HEALTH AND SAFETY AND ENVIRONMENT QUALITY.
13. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES TO VERIFY THE ACTUAL LOCATION OF ALL UTILITIES IN THE PROJECT AREA PRIOR TO CONSTRUCTION.
14. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL MATERIAL NOT DESIGNATED TO BE SALVAGED TO AN APPROVED LAND DISPOSAL "OFF SITE", AT HIS OWN EXPENSE.
15. ALL EXISTING IMPROVEMENTS, WHETHER SHOWN ON THE PLAN OR NOT, BUT WILL BE IN THE WAY OF NEW CONSTRUCTION, SHALL BE REMOVED AND/OR RELOCATED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER.
16. THE CONTRACTOR SHALL TONE THE AREA PRIOR TO ANY REMOVAL, GRADING OR EXCAVATION WORK.
17. WORK REQUIRED TO COMPLETE THE PROJECT BUT NOT ITEMIZED SPECIFICALLY IN THE PROPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS ITEMS IN THE PROPOSAL.
18. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST FROM SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHENEVER CONNECTIONS OF NEW UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
19. ALL INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ENGINEER SO THAT THE PROPER REVISIONS MAY BE MADE. MODIFICATION OF DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
20. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, MODIFY DETAILS TO MEET SUCH CONDITIONS, SUBJECT TO THE REVIEW BY THE ENGINEER.
21. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE JOBSITE. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, GUYS, ETC., IN ACCORDANCE WITH ALL SAFETY ORDINANCES TO PROTECT CONSTRUCTION PERSONNEL AND DOFAW FACILITIES.
22. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES, INCLUDING LAGGING, SHORING AND PROTECTION OF THE ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES.
23. THE CONTRACTOR SHALL HAVE THE CONSTRUCTION MATERIALS AVAILABLE FOR INSPECTION BY THE ENGINEER AT THE PROJECT SITE OR AT HIS BASE YARD PRIOR TO COMMENCEMENT OF ON-SITE WORK.
24. ALL CORNERS AND CUT SURFACES EXPOSED TO PEDESTRIAN TRAFFIC SHALL BE GROUND SMOOTH.
25. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR METHODS OF CONSTRUCTION WORKMANSHIP, JOB SAFETY REQUIREMENTS, INCLUDING ALL SHORING AND FALSE WORK, AND PRECAUTIONS.

N. HEALTH, SAFETY AND CONVENIENCE

1. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH AND SAFETY AND ENVIRONMENTAL QUALITY.
2. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND ITS SURROUNDING AREAS FREE FROM DUST NUISANCE. THE WORK SHALL BE DONE IN CONFORMANCE WITH THE AIR POLLUTION STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH, HAR 11-60.1, FUGITIVE DUST. THE STATE SHALL REQUIRE SUPPLEMENTARY MEASURES AS NECESSARY.
3. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES, AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE, AND SAFETY OF THE PUBLIC.
4. NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING COUNTY OR STATE DRAINAGE SYSTEMS, OR ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.

O. TRAFFIC NOTES

1. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL ALONG ROADWAY AREAS DURING ALL PHASES OF CONSTRUCTION.
2. ALL CONSTRUCTION WARNING SIGNS SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE MESSAGE IS NOT APPLICABLE OR NOT IN USE. THE BACKS OF ALL SIGNS USED FOR TRAFFIC CONTROL SHALL BE APPROPRIATELY COVERED TO PRECLUDE THE DISPLAY OF INAPPLICABLE SIGN MESSAGES (I.E. WHEN SIGNS HAVE MESSAGES ON BOTH FACES).

3. THE CONTRACTOR SHALL PROVIDE FLAGMEN OR OFF-DUTY POLICE OFFICERS TO CONTROL THE FLOW OF TRAFFIC, AS REQUIRED.
4. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNS, POSTS AND PAVEMENT MARKINGS DISTURBED BY HIS ACTIVITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING STREET LIGHTING AND DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR.

P. PAVEMENT NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE DIMENSIONS AND CONDITION OF THE EXISTING PAVEMENT.
2. TREAT WEEDS AND/OR SUBGRADE WITH HERBICIDE AS SPECIFIED.
3. ASPHALTIC CONCRETE MIX #4 SHALL BE USED THROUGHOUT THIS PROJECT.
4. ALL LOW AND UNEVEN AREAS SHALL BE BUILT UP WITH A.C. MIX #4 LEVELING COURSE PRIOR TO RESURFACING/RECONSTRUCTION.
5. THE CONTRACTOR SHALL KEEP THE PROJECT AREA FREE FROM DUST NUISANCE AT ALL TIMES.
6. UNLESS OTHERWISE INDICATED, THE FINISH GRADE OF THE NEW RECONSTRUCTED A.C. PAVEMENT & NEW A.C. PAVEMENT SHALL FOLLOW THE GRADE OF THE EXISTING PAVEMENT BEING REPLACED.
7. REMOVE EXISTING A.C. SURFACING AS NOTED ON THE PLAN. REWORK BASE, ADD NEW BASE COURSE MATERIAL & RECOMPACT TO THE THICKNESS REQUIRED TO MEET NEW FINISH GRADES. RECOMPACT ALL EXISTING BASE COURSE MATERIAL PRIOR TO LAYING NEW A.C. PAVEMENT.
8. ALL UNUSABLE EXCAVATED & SURPLUS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR.
9. DO NOT OBSTRUCT DRAIN OUTLETS/INLETS AND SWALES TO PREVENT DRAINAGE OF THE AREA.
10. RESTORE ALL GRASSING/LAWN AREA THAT IS DAMAGED TO ITS ORIGINAL CONDITION AT CONTRACTOR'S OWN EXPENSE.

Q. SHOP DRAWING SUBMITTALS

1. THE CONTRACTOR SHALL SUBMIT SIX (6) SETS OF SHOP DRAWINGS FOR PRE-ENGINEERED METAL BUILDING WITH ITS COMPONENTS AND STRUCTURAL CALCULATIONS; METAL ROOFING AND SIDING, FLASHING, GUTTERS, DOWN SPOUTS AND ACCESSORIES; METAL SERVICE AND ROLL-UP DOORS AND HARDWARE; PAINTING; FORMWORK; REINFORCING BARS; MASONRY; CONCRETE MIX DESIGN; MISCELLANEOUS METALS; ELECTRICAL WORK; PHOTOVOLTAIC SYSTEM AND SUPPORTS; ASPHALTIC PAVEMENT; PAVEMENT STRIPING; AGGREGATES; AND ALL OTHER WORK AS NOTED AND REQUIRED BY SPECIFICATION. SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION.

R. VEHICLE SHED PARKING/STORAGE

1. VEHICLE SHED PARKING/STORAGE ONLY FOR STATE MAINTENANCE AND EQUIPMENT VEHICLES. NO PRIVATELY OWNED VEHICLES OR EMPLOYEE PARKING ALLOWED.

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
GENERAL NOTES					
DESIGNED: ATO		SUBMITTED: <i>gc</i>			
DRAWN: RMA/LC		DATE: 03/07/2016			
CHECKED: ATO		SCALE: AS SHOWN			
APPROVED: <i>Arnold Tetsuji Okubo</i>		CHIEF ENGINEER		APR 26 2015	DRAWING NO. S-3
Expiration date of the license: 04/30/2016					

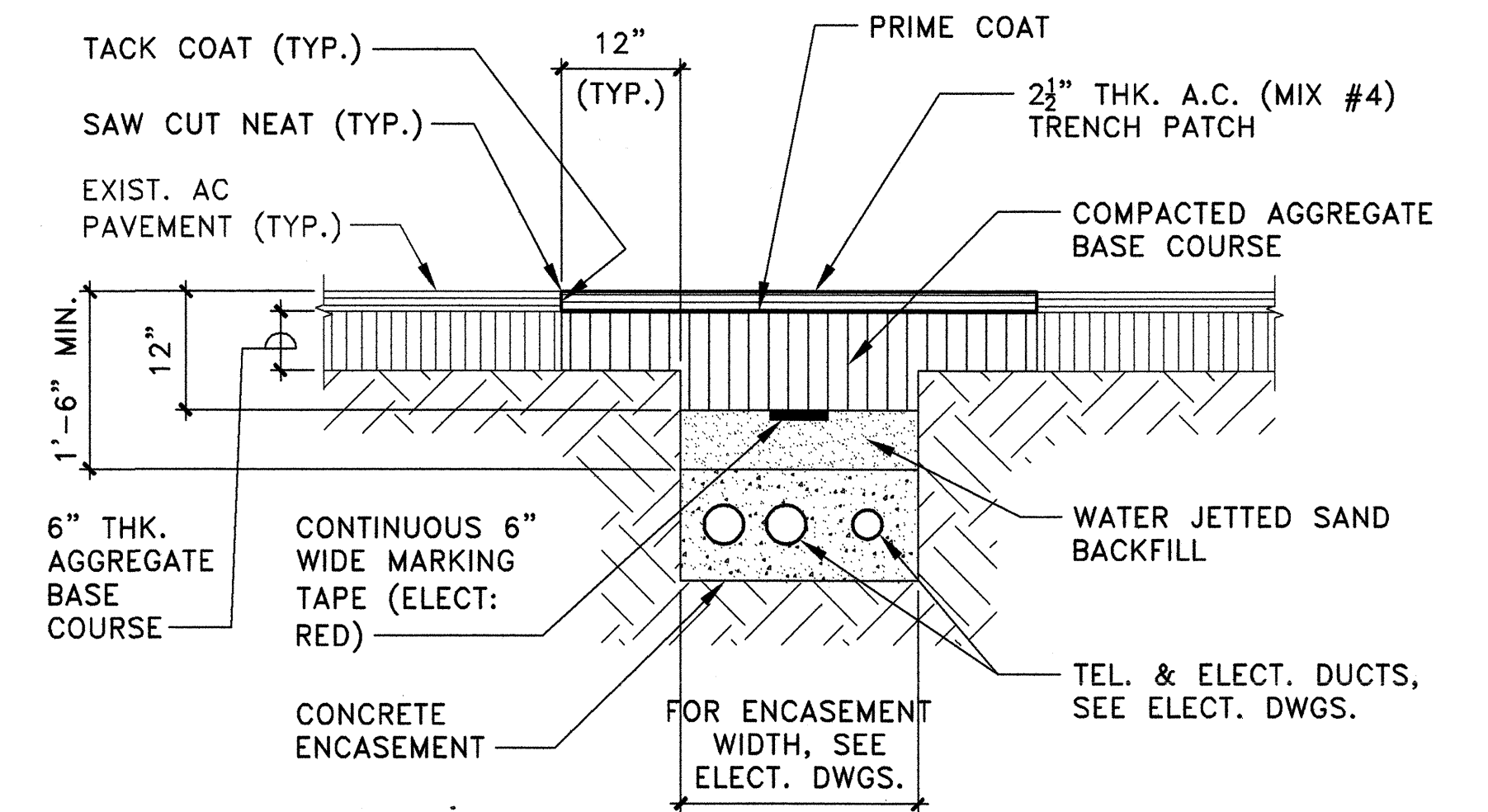
GENERAL NOTES – CONT.

S. BEST MANAGEMENT PRACTICES (BMP)

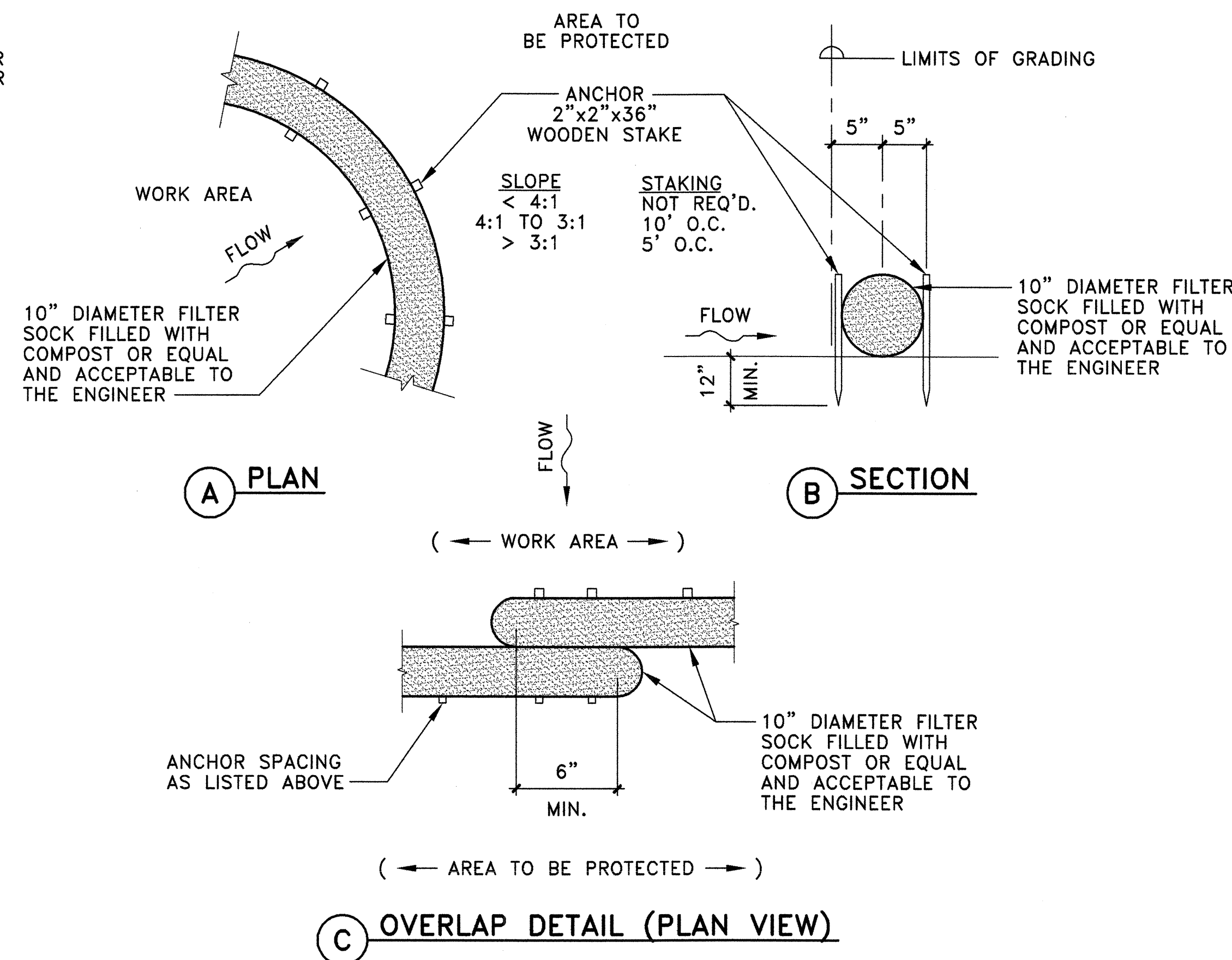
1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT SEDIMENT RUNOFF FROM AREAS DISTURBED BY CONSTRUCTION ACTIVITIES TO ENTER STATE WATERS.
2. INSTALL TEMPORARY SEDIMENT CONTROL FILTER AT ANY AFFECTED DRAIN INLETS BEFORE ANY WORK COMMENCES. SEDIMENT CONTROL FILTERS SHALL REMAIN UNTIL AFTER COMPLETION OF CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR SHALL ENSURE ALL TIRES OF CONSTRUCTION VEHICLES ARE CLEANED OFF SO THAT DIRT OR DEBRIS ARE NOT TRACKED OFF THE CONSTRUCTION SITE. WASHING OFF TIRES WITH WATER WILL NOT BE ACCEPTED UNLESS THE WASH RUNOFF IS CONTAINED AND DOES NOT ENTER STATE WATERS.
4. THE FOLLOWING BEST MANAGEMENT PRACTICES (BMP'S) WILL BE USED TO PROPERLY ISOLATE AND CONFINE CONSTRUCTION ACTIVITIES AND TO CONTAIN AND PREVENT ANY POTENTIAL POLLUTANT(S) FROM ADVERSELY IMPACTING THE DOFAW FACILITIES AND ADJACENT PROPERTIES.
 - a. THE CONTRACTOR WILL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS AND REGULATIONS, INCLUDING THE BEST MANAGEMENT PRACTICES PLANS AND HAWAII ADMINISTRATIVE RULES, TITLE II, DEPARTMENT OF HEALTH, CHAPTER 55, WATER POLLUTION CONTROL.
 - b. THE CONTRACTOR SHALL PROVIDE PROTECTIVE MEASURES, AS NECESSARY, TO CAPTURE ALL DEBRIS FROM DEMOLITION OPERATIONS, AND ENSURE THAT PETROLEUM PRODUCTS OR OTHER DELETERIOUS MATERIALS ARE NOT ALLOWED TO ENTER STORM DRAINS.
 - c. THE CONTRACTOR WILL CAPTURE AND DISPOSE OF ALL NEWLY GENERATED WASTES. SOLID WASTES WILL BE PICKED UP AND PLACED IN CONTAINERS THAT ARE REGULARLY EMPTIED. SITE CONTAMINATION WILL BE PREVENTED WHEN HANDLING AND DISPOSING OF ALL WASTES. THE PROJECT SITE WILL BE CLEANED UP AT THE END OF EACH WORKING DAY.
 - d. CONSTRUCTION MATERIALS WILL BE STORED AND STAGED IN A MANNER FOR PROPER DISPOSAL. ALL GENERATED WASTES WILL BE CLEANED UP AND PLACED INTO THE JOBSITE TRASH BINS FOR PROPER DISPOSAL.
 - e. OIL OR OTHER HAZARDOUS SUBSTANCES WILL BE PREVENTED FROM ENTERING THE GROUND, DRAINAGE AREA, OR LOCAL BODIES OF WATER. WHEN APPLICABLE, ALL TEMPORARY FUEL OIL OR PETROLEUM STORAGE TANKS WILL BE SURROUNDED WITH A TEMPORARY BERM OF SUFFICIENT SIZE AND STRENGTH TO CONTAIN THE CONTENTS OF TANKS IN THE EVENT OF AN ACCIDENTAL RELEASE. FUELING AND LUBRICATING OF EQUIPMENT AND MOTOR VEHICLES WILL BE CONDUCTED IN A MANNER TO PROTECT AGAINST LEAKS OR SPILLS. LUBRICANTS AND EXCESS OIL WILL BE DISPOSED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
 - f. ALL EQUIPMENT WILL BE INSPECTED DAILY FOR LEAKS. ANY LEAKS WILL BE CORRECTED BEFORE EQUIPMENT IS USED.

T. GRADING NOTES

1. ALL GRADING WORK SHALL CONFORM TO KAUAI COUNTY CODE.
2. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS RESULTING FROM HIS WORK. THE COST INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE DEPARTMENT OF PUBLIC WORKS SHALL BE PAYABLE BY THE CONTRACTOR.
3. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND ITS SURROUNDING AREAS FREE FROM DUST NUISANCE. THE WORK SHALL BE DONE IN CONFORMANCE WITH THE AIR POLLUTION STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH, HAR 11-60.1, FUGITIVE DUST. THE STATE SHALL REQUIRE SUPPLEMENTARY MEASURES AS NECESSARY.
4. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 55, WATER POLLUTION CONTROL AND CHAPTER 54, WATER QUALITY STANDARDS, AND TO THE EROSION AND SEDIMENTATION CONTROL STANDARDS AND GUIDELINES OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF KAUAI.
5. FILL AND BACKFILL SHALL BE COMPACTED TO 95 PERCENT (95%) OF MAXIMUM DENSITY PER ASTM D-1557 TEST.
6. ALL FILL AND BACKFILL SHALL BE LAID IN EIGHT INCH (8") LIFTS, WATERED, ROLLED AND COMPACTED BEFORE THE NEXT EIGHT INCH (8") LIFT IS LAID.
7. FILL AND BACKFILL MATERIAL UNDER CONCRETE SLABS SHALL BE SELECT MATERIAL LAID IN EIGHT INCH (8") LAYERS AND EACH LAYER SHALL BE COMPACTED UNTIL A DENSITY OF NOT LESS THAN 95 PERCENT (95%) OF MAXIMUM DENSITY IS ACHIEVED.
8. THE CONTRACTOR SHALL ASSUME ALL COSTS TO RETAIN A QUALIFIED INDEPENDENT TESTING LABORATORY TO PERFORM SOILS AND COMPACTION TESTS, AND SUBMIT TEST RESULTS TO THE ENGINEER.
9. ALL MATERIAL REMOVED AND DISTURBED UNDER BUILDING SHALL BE RECOMPACTED TO 95 PERCENT (95%) OF MAXIMUM DENSITY PER ASTM D-1557 TEST.



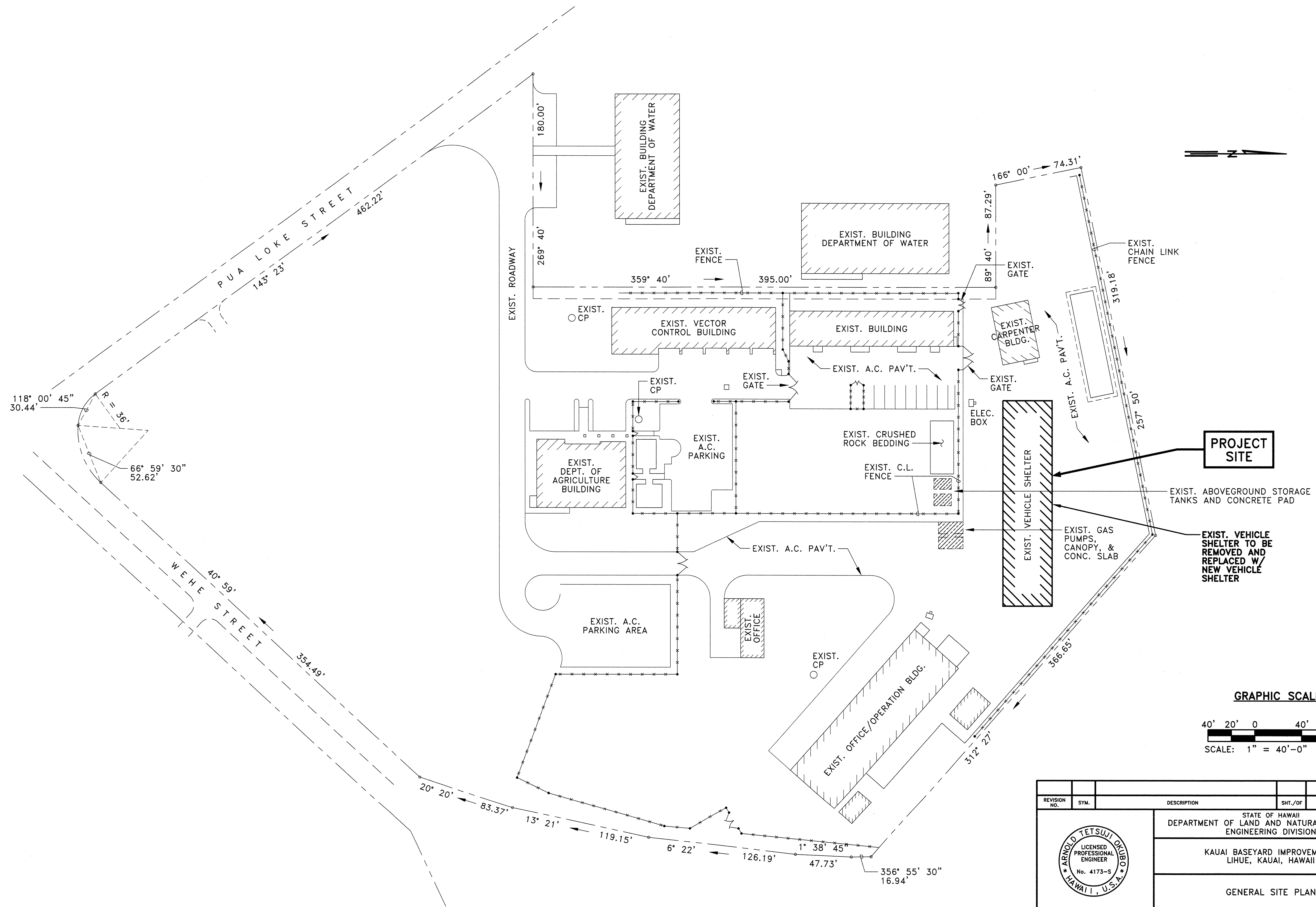
1
S-4 NOT TO SCALE
TYPICAL ELECTRICAL DUCT LIVE TRENCH DETAIL



NOTE:
COMPOST SHALL NOT CONTAIN BIOSOLIDS AND SHOULD BE CONSISTENT WITH EPA GUIDELINES.

2
S-4 NOT TO SCALE
COMPOST FILTER SOCK DETAILS

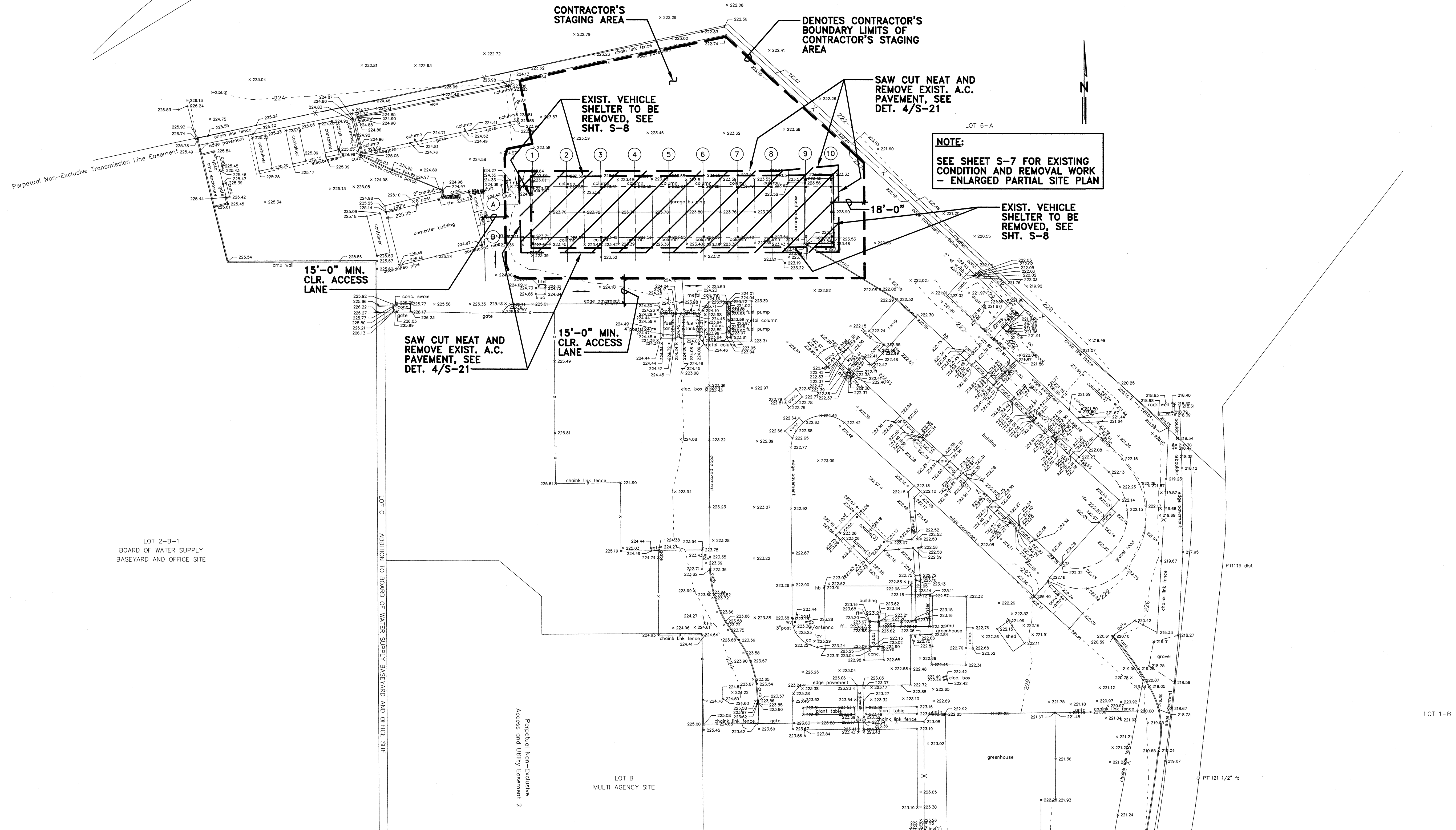
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
GENERAL NOTES & DETAILS					
DESIGNED: ATO		SUBMITTED: <i>aw</i>			
DRAWN: RMA/LC		DATE: 03/07/2016			
CHECKED: ATO		SCALE: AS SHOWN			
APPROVED: <i>Arnold Tetsuji Okubo</i>		DATE: APR 26 2016			
Expiration date of the license: 04/30/2016		S-4			



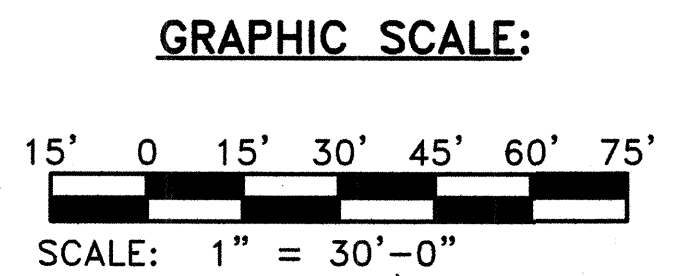
A
S-5 GENERAL SITE PLAN
SCALE: 1" = 40'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
GENERAL SITE PLAN					
DESIGNED:	ATO	SUBMITTED:	<i>[Signature]</i>		
DRAWN:	RMA/LC	DATE:	03/07/2016		
CHECKED:	ATO	SCALE:	AS SHOWN		
APPROVED:	<i>[Signature]</i>	DATE:	APR 26 2016		
Expiration date of the license: 04/30/2016		CHIEF ENGINEER	S-5		

02/26/2016

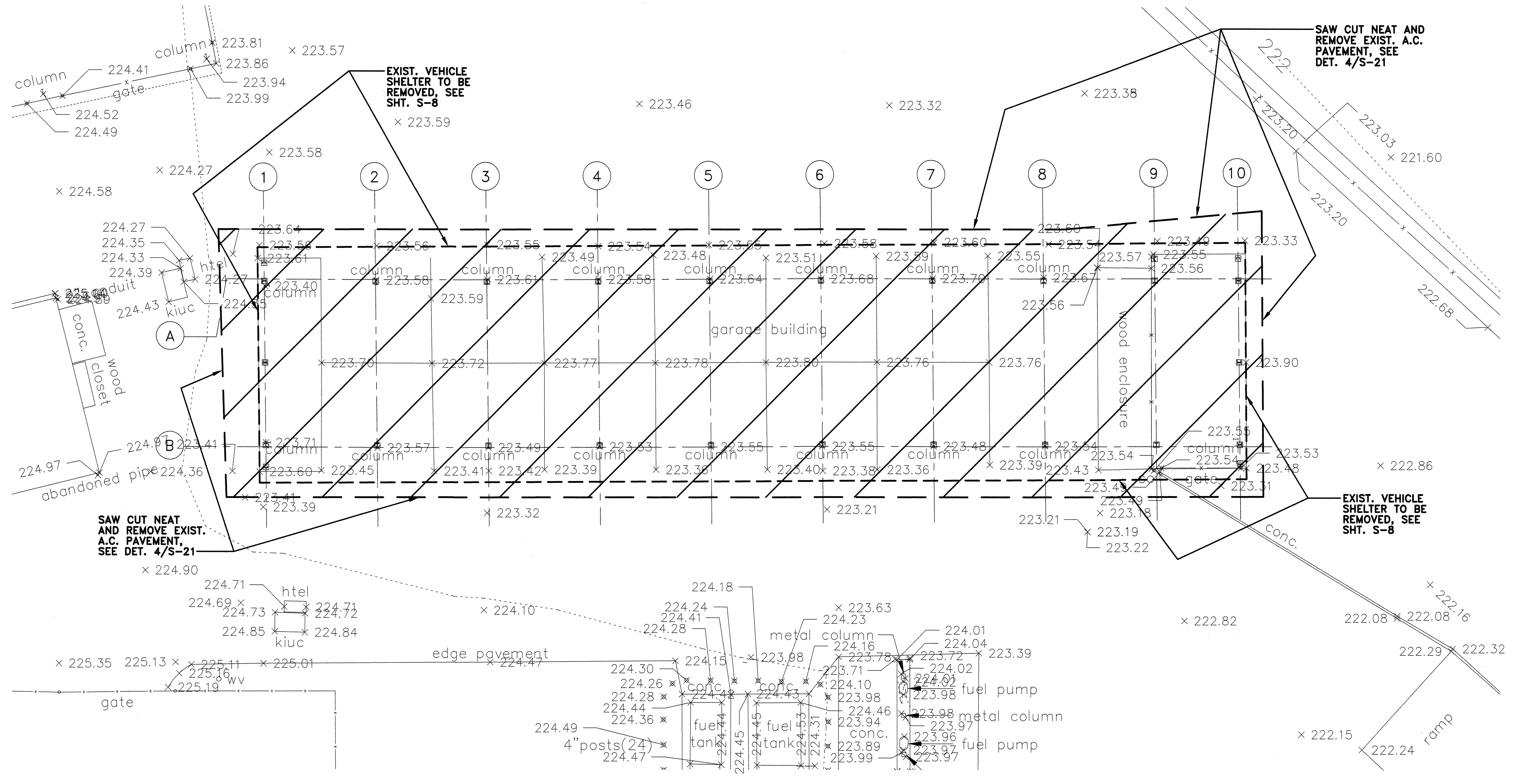


(A) EXISTING CONDITION AND REMOVAL WORK - PARTIAL SITE PLAN
(S-6) SCALE: 1" = 30'-0"



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
EXISTING CONDITION AND REMOVAL WORK - PARTIAL SITE PLAN					
DESIGNED:	ATO	SUBMITTED:	<i>ac</i>		
DRAWN:	RMA/LC	DATE:	03/07/2016		
CHECKED:	ATO	SCALE:	AS SHOWN		
APPROVED:	<i>Arnold O. Oshiro</i>	DATE:	APR 26 2016		
Expiration date of the license: 04/30/2016		CHIEF ENGINEER	DRAWING NO.		S-6

02/26/2016

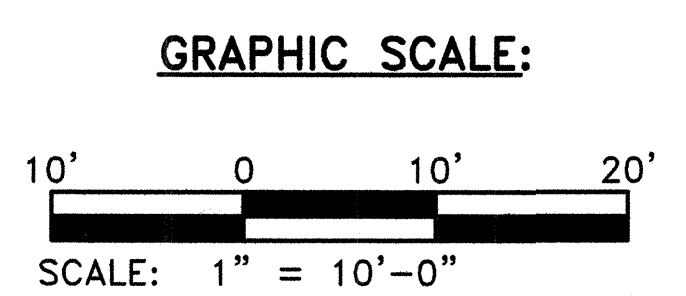


SAW CUT NEAT AND REMOVE EXIST. A.C. PAVEMENT, SEE DET. 4/S-21

SAW CUT NEAT AND REMOVE EXIST. A.C. PAVEMENT, SEE DET. 4/S-21

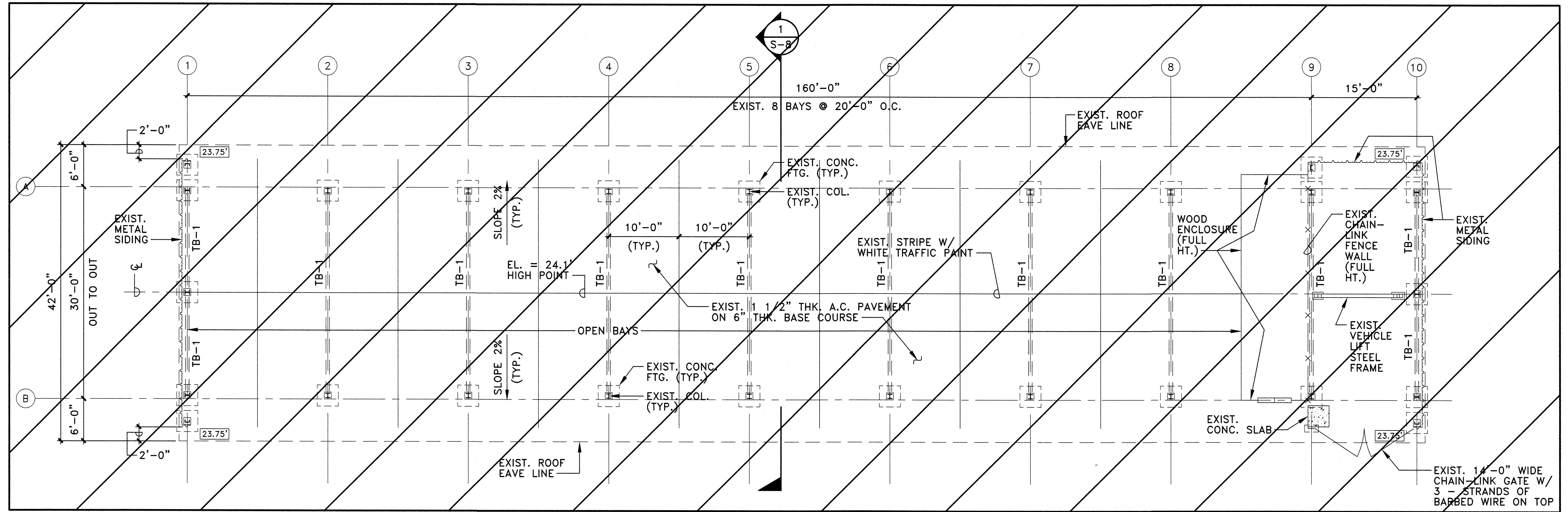
EXIST. VEHICLE SHELTER TO BE REMOVED, SEE SHT. S-8

A EXISTING CONDITION AND REMOVAL WORK - ENLARGED PARTIAL SITE PLAN
S-7 SCALE: 1" = 10'-0"



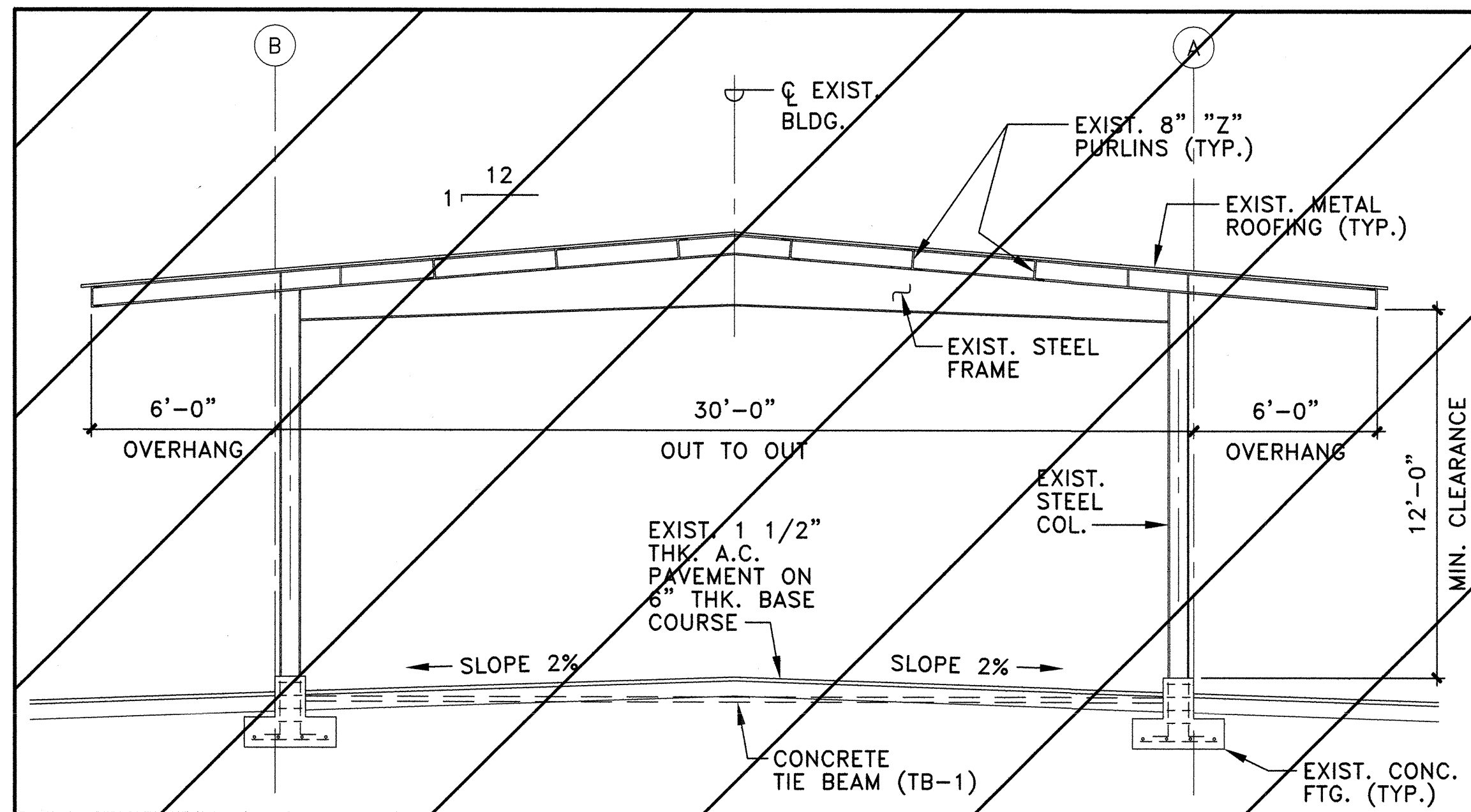
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STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
EXISTING CONDITION AND REMOVAL WORK - ENLARGED PARTIAL SITE PLAN					
DESIGNED:	ATO	SUBMITTED:	<i>[Signature]</i>		
DRAWN:	RMA/LC	DATE:	03/07/2016		
CHECKED:	ATO	SCALE:	AS SHOWN		
APPROVED:	<i>[Signature]</i> CHIEF ENGINEER		DATE:	APR 26 2016	
Expiration date of the license: 04/30/2016				S-7	

02/26/2016



A EXISTING VEHICLE SHELTER - FLOOR PLAN & REMOVAL WORK
 S-8 SCALE: 1/8" = 1'-0"

SEE NOTE A BELOW



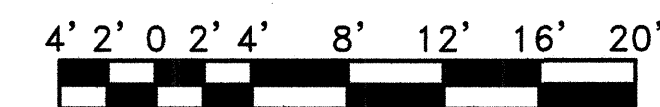
SEE NOTE A

NOTE A

- EXISTING VEHICLE SHELTER STEEL STRUCTURE TO BE COMPLETELY REMOVED. INCLUDES METAL BUILDING FRAME, ROOFING, SIDINGS, PIERS, CONCRETE FOOTINGS, TIE BEAMS, A.C. PAVEMENT, ELECTRICAL WORK, CHAIN LINK FENCING, STEEL FRAME VEHICLE LIFT, WOOD ENCLOSURE, AND ALL OTHER APPURTENANCES.
- SEE SPECIFICATIONS FOR LEAD PAINT REMOVAL WORK.

1 EXISTING VEHICLE SHELTER -
 TYPICAL SECTION & REMOVAL WORK
 S-8 SCALE: 1/4" = 1'-0"

GRAPHIC SCALE:



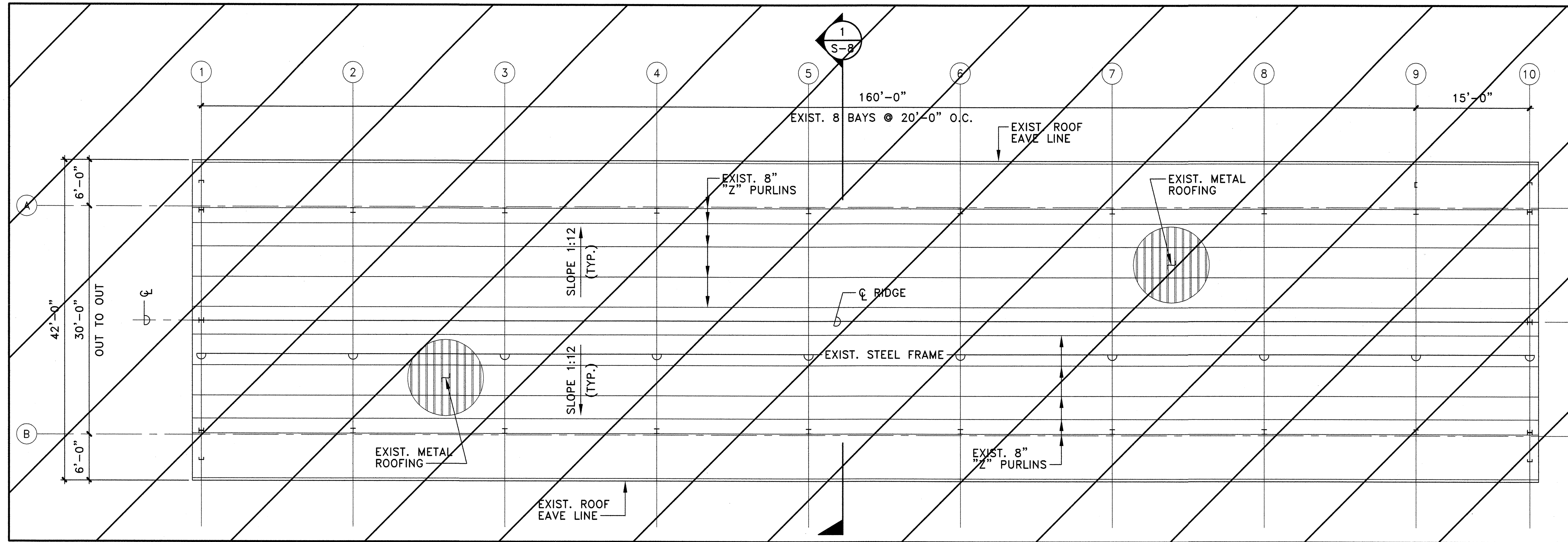
SCALE: 1/8" = 1'-0"



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

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
EXISTING VEHICLE SHELTER - FLOOR PLAN, TYPICAL SECTION, & REMOVAL WORK					
DESIGNED:	ATO	SUBMITTED:	AS SHOWN		
DRAWN:	RMA/LC	DATE:	03/07/2016		
CHECKED:	ATO	SCALE:	AS SHOWN		
APPROVED:	<i>Arnold Tetsuji Okubo</i>	DATE:	APR 26 2016		
Expiration date of the license: 04/30/2016			DATE	S-8	

02/26/2016



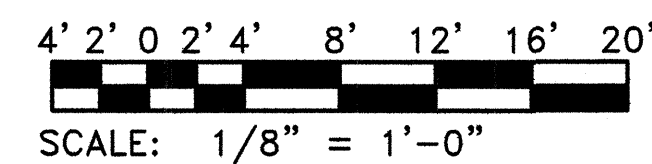
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S-9 EXISTING VEHICLE SHELTER – ROOF PLAN & REMOVAL WORK
SCALE: 1/8" = 1'-0"

SEE NOTE A BELOW

NOTE A

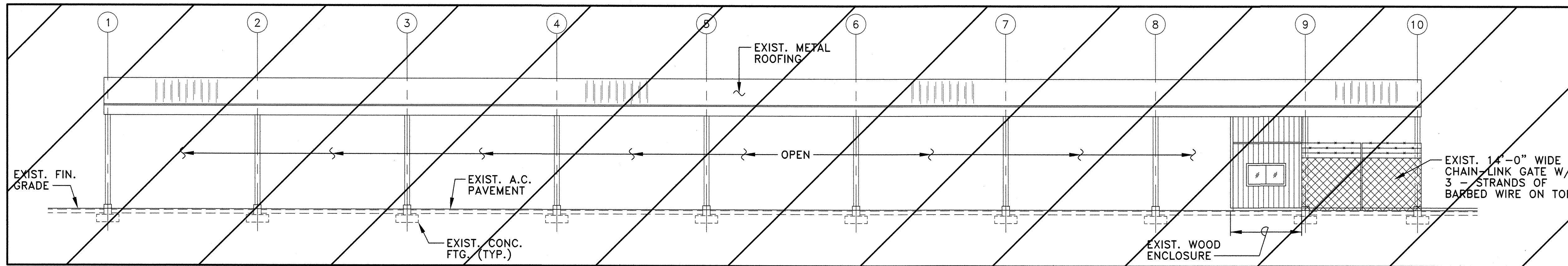
- EXISTING VEHICLE SHELTER STEEL STRUCTURE TO BE COMPLETELY REMOVED. INCLUDES METAL BUILDING FRAME, ROOFING, SIDINGS, PIERS, CONCRETE FOOTINGS, TIE BEAMS, A.C. PAVEMENT, ELECTRICAL WORK, CHAIN LINK FENCING, STEEL FRAME VEHICLE LIFT, WOOD ENCLOSURE, AND ALL OTHER APPURTENANCES.
- SEE SPECIFICATIONS FOR LEAD PAINT REMOVAL WORK.

GRAPHIC SCALE:



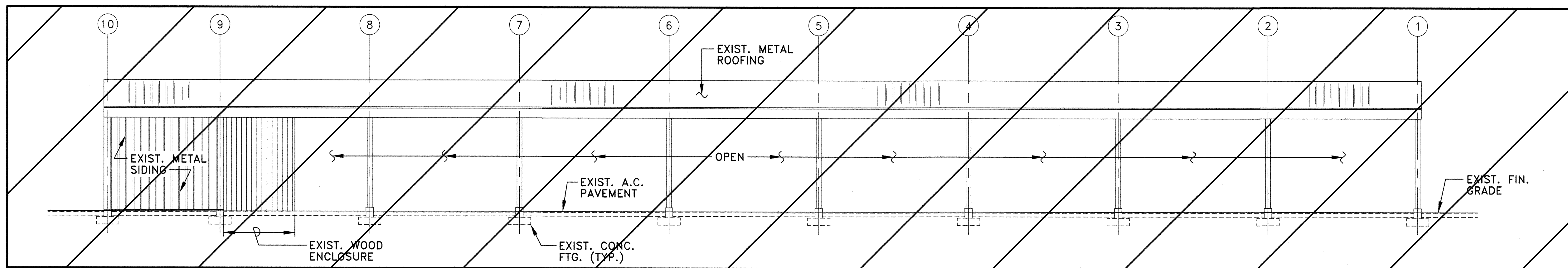
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
EXISTING VEHICLE SHELTER – ROOF PLAN & REMOVAL WORK					
DESIGNED:	ATO	SUBMITTED:	gc	DATE:	03/07/2016
DRAWN:	RMA/LC	CHECKED:	ATO	SCALE:	AS SHOWN
APPROVED:	<i>Arnold Tetsuji Okubo</i>	CHIEF ENGINEER	DATE:	APR 26 2016	DRAWING NO. S-9
Expiration date of the license: 04/30/2016					

02/26/2016



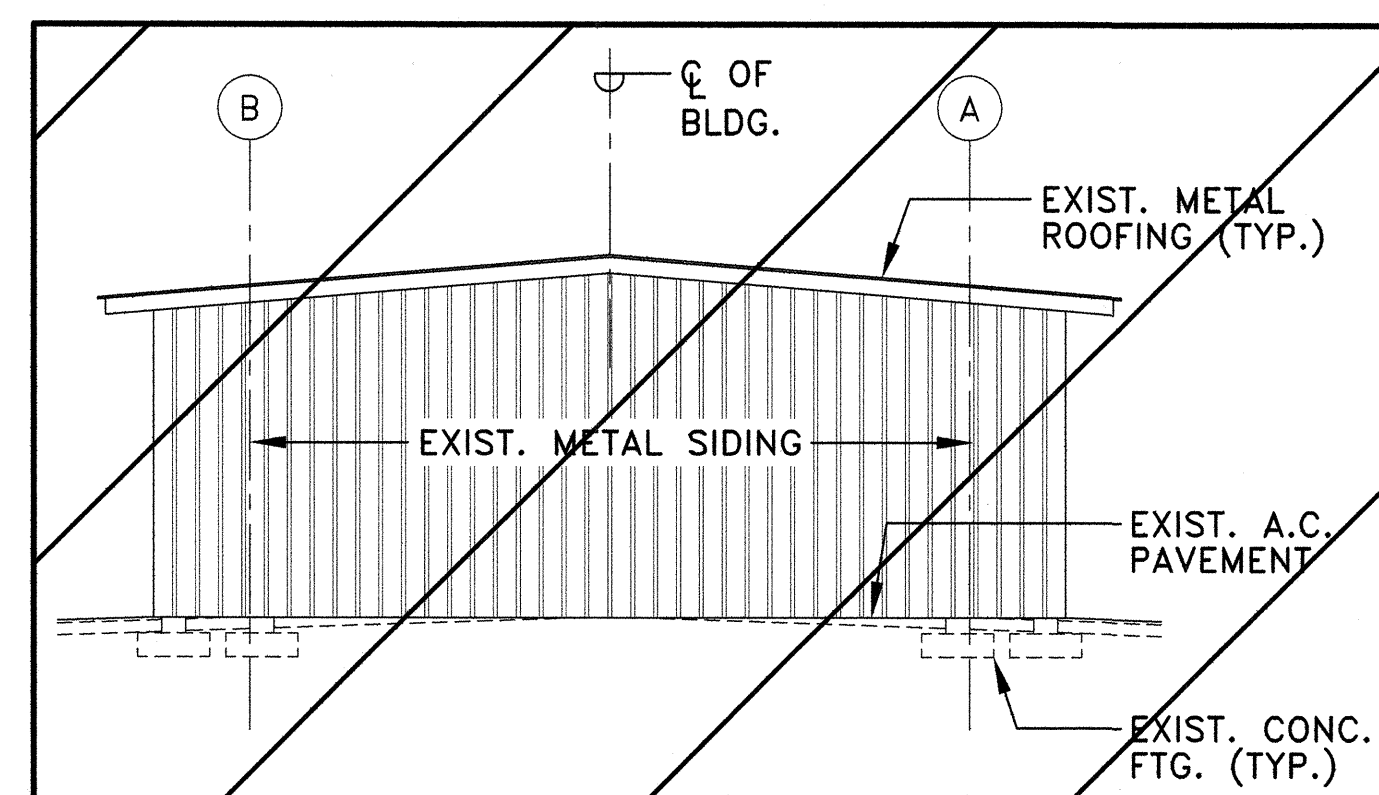
SEE NOTE A BELOW

SOUTH ELEVATION



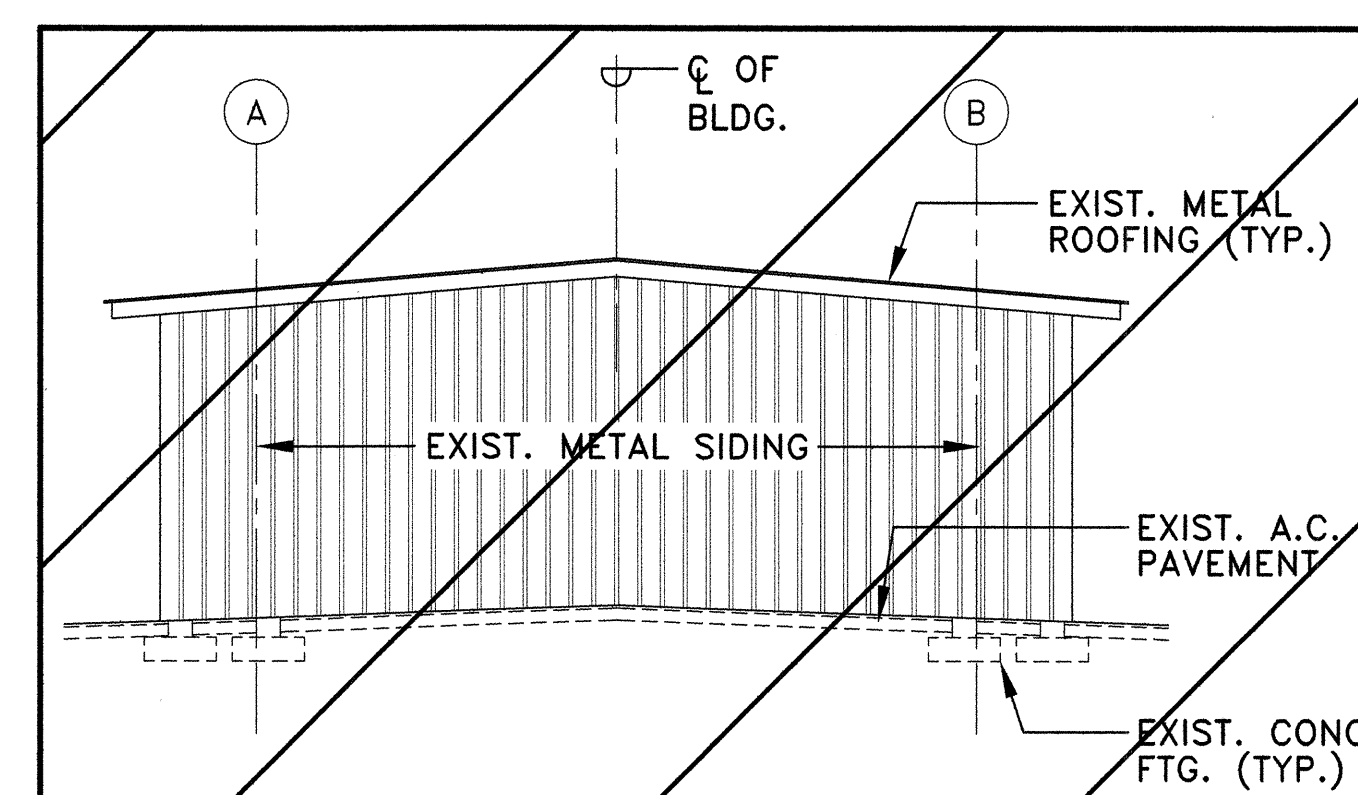
SEE NOTE A BELOW

NORTH ELEVATION



SEE NOTE A

EAST ELEVATION



SEE NOTE A

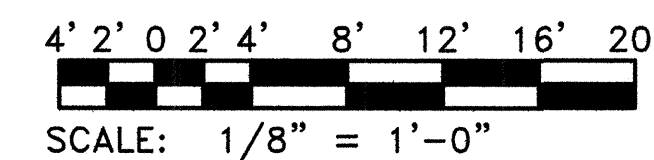
WEST ELEVATION

NOTE A

- EXISTING VEHICLE SHELTER STEEL STRUCTURE TO BE COMPLETELY REMOVED. INCLUDES METAL BUILDING FRAME, ROOFING, SIDINGS, PIERS, CONCRETE FOOTINGS, TIE BEAMS, A.C. PAVEMENT, ELECTRICAL WORK, CHAIN LINK FENCING, STEEL FRAME VEHICLE LIFT, WOOD ENCLOSURE, AND ALL OTHER APPURTENANCES.
- SEE SPECIFICATIONS FOR LEAD PAINT REMOVAL WORK.

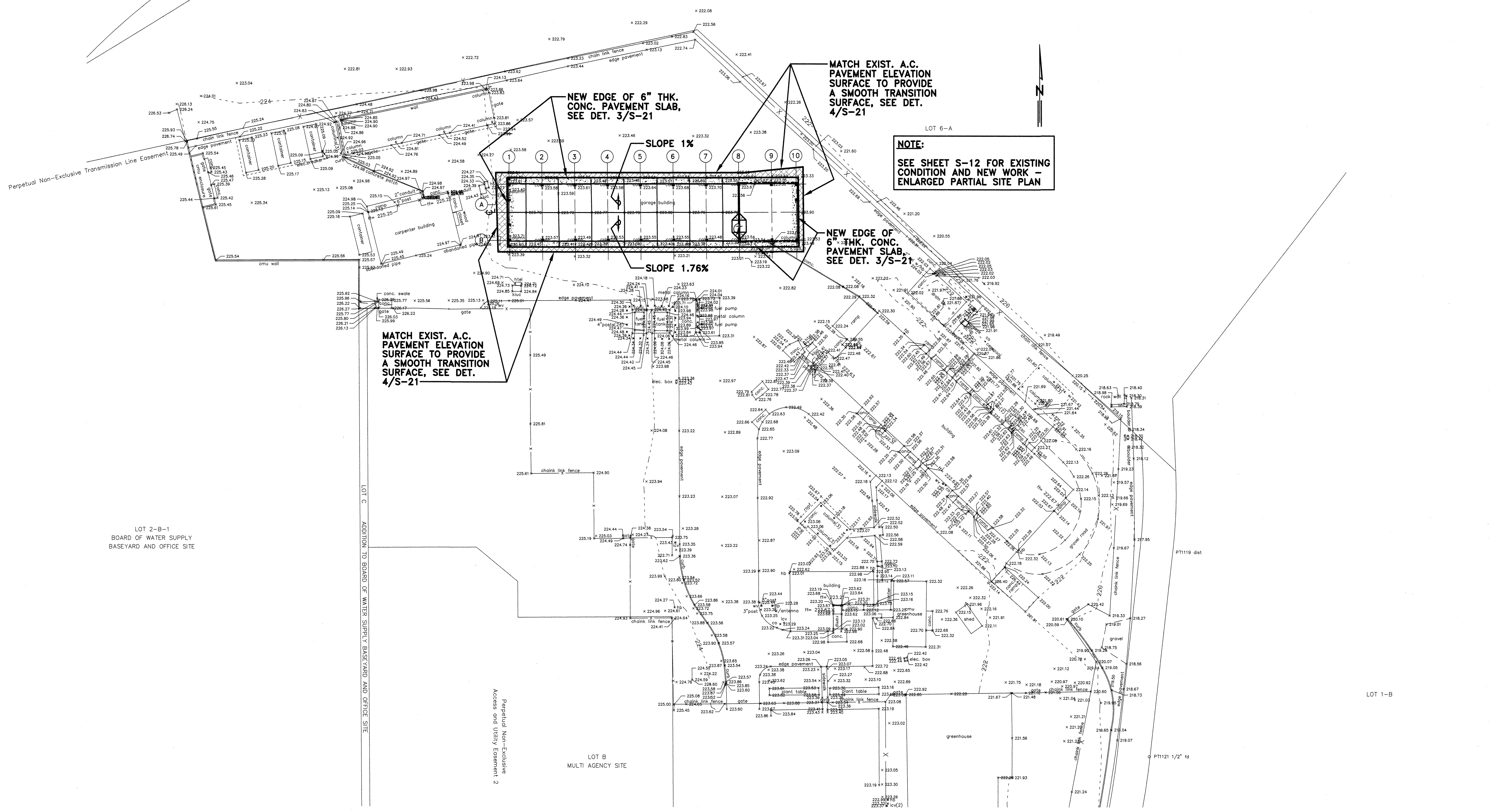
1 EXISTING VEHICLE SHELTER - EXTERIOR ELEVATIONS & REMOVAL WORK
 S-10 SCALE: 1/8" = 1'-0"

GRAPHIC SCALE:

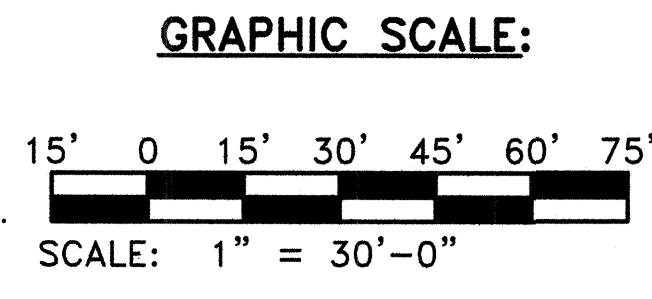


REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
EXISTING VEHICLE SHELTER - EXTERIOR ELEVATIONS & REMOVAL WORK					
DESIGNED:	ATO	SUBMITTED:	[Signature]		
DRAWN:	RMA/LC	DATE:	03/07/2016		
CHECKED:	ATO	SCALE:	AS SHOWN		
APPROVED:	[Signature]	DATE:	APR 26 2016		
Expiration date of the license: 04/30/2016		CHIEF ENGINEER	S - 10		

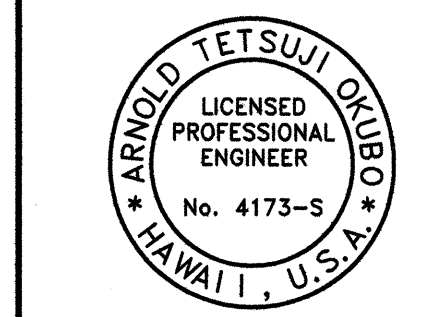
02/26/2016



A EXISTING CONDITION AND NEW WORK - PARTIAL SITE PLAN
S-11 SCALE: 1" = 30'-0"

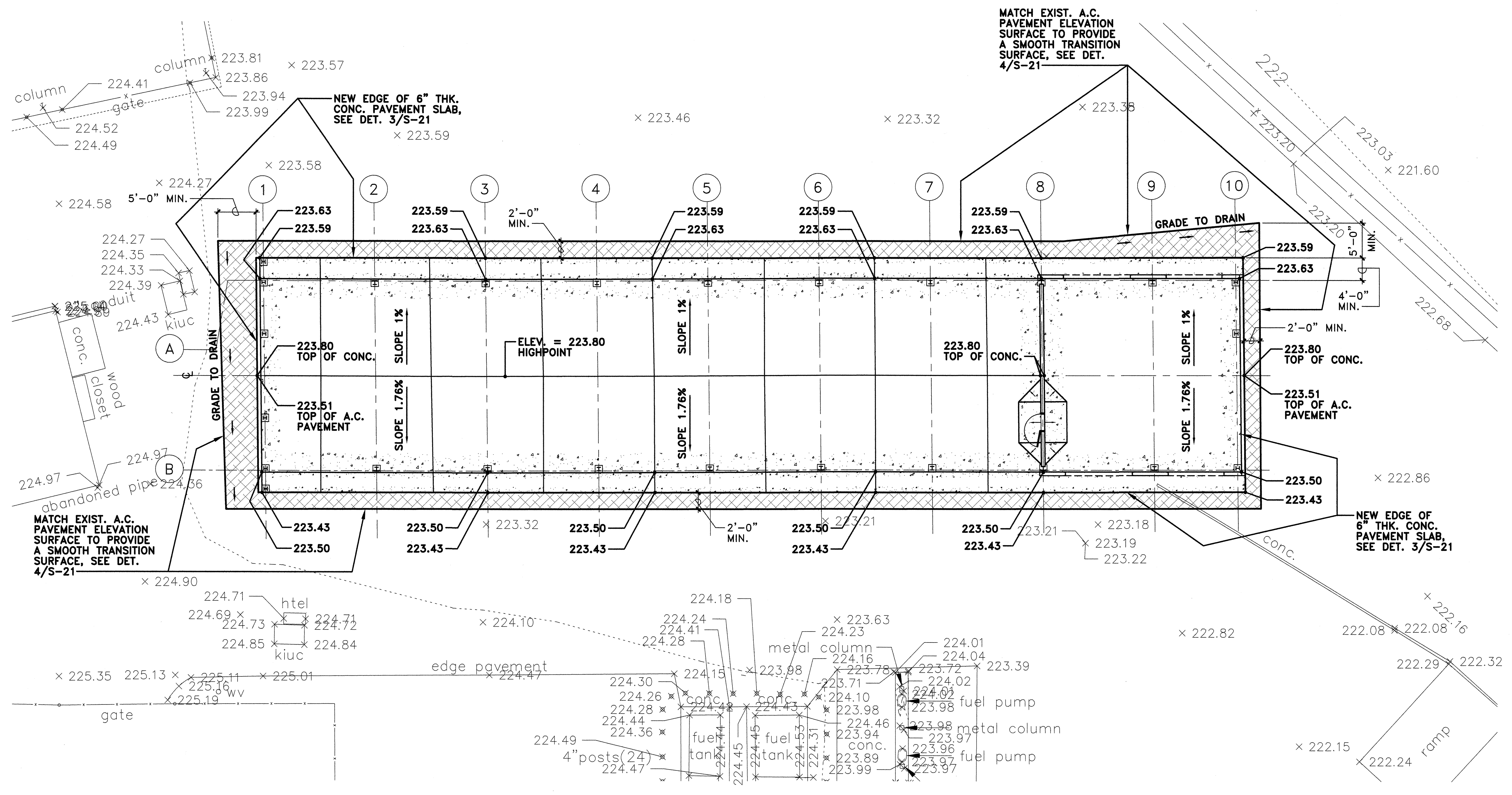


REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
EXISTING CONDITION AND NEW WORK - PARTIAL SITE PLAN					
DESIGNED:	ATO	SUBMITTED:	[Signature]		
DRAWN:	RMA/LC	DATE:	03/07/2016		
CHECKED:	ATO	SCALE:	AS SHOWN		
APPROVED:	[Signature]	CHIEF ENGINEER	APR 26 2016	DATE	S-11

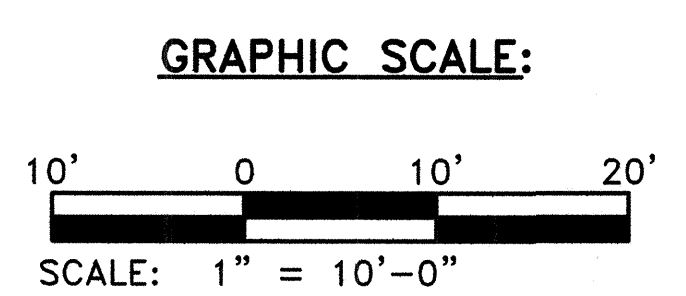


This work was prepared by me or under my supervision.
 Expiration date of the license: 04/30/2016

02/26/2016

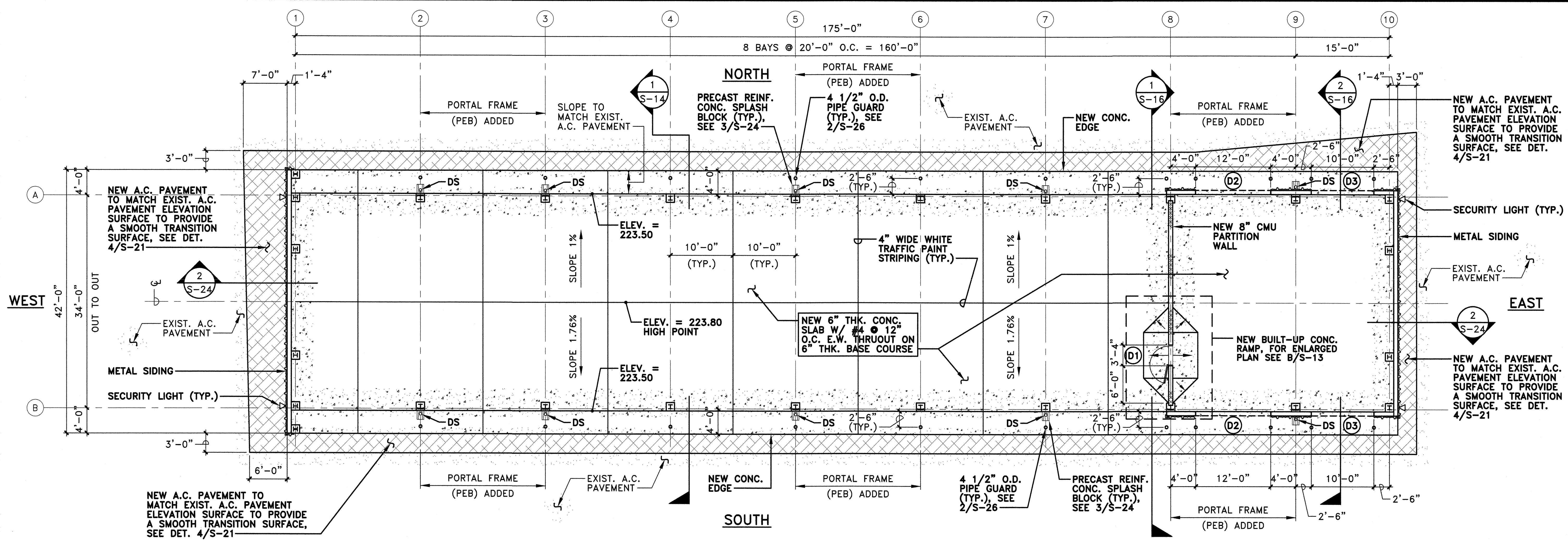


A EXISTING CONDITION AND NEW WORK – ENLARGED PARTIAL SITE PLAN
 S-12 SCALE: 1" = 10'-0"



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
EXISTING CONDITION AND NEW WORK – ENLARGED PARTIAL SITE PLAN					
DESIGNED:	ATO	SUBMITTED:	60	DATE:	03/07/2016
DRAWN:	RMA/LC	CHECKED:	ATO	SCALE:	AS SHOWN
APPROVED:	<i>[Signature]</i>	CHIEF ENGINEER:		DATE:	APR 26 2016
Expiration date of the license: 04/30/2016					

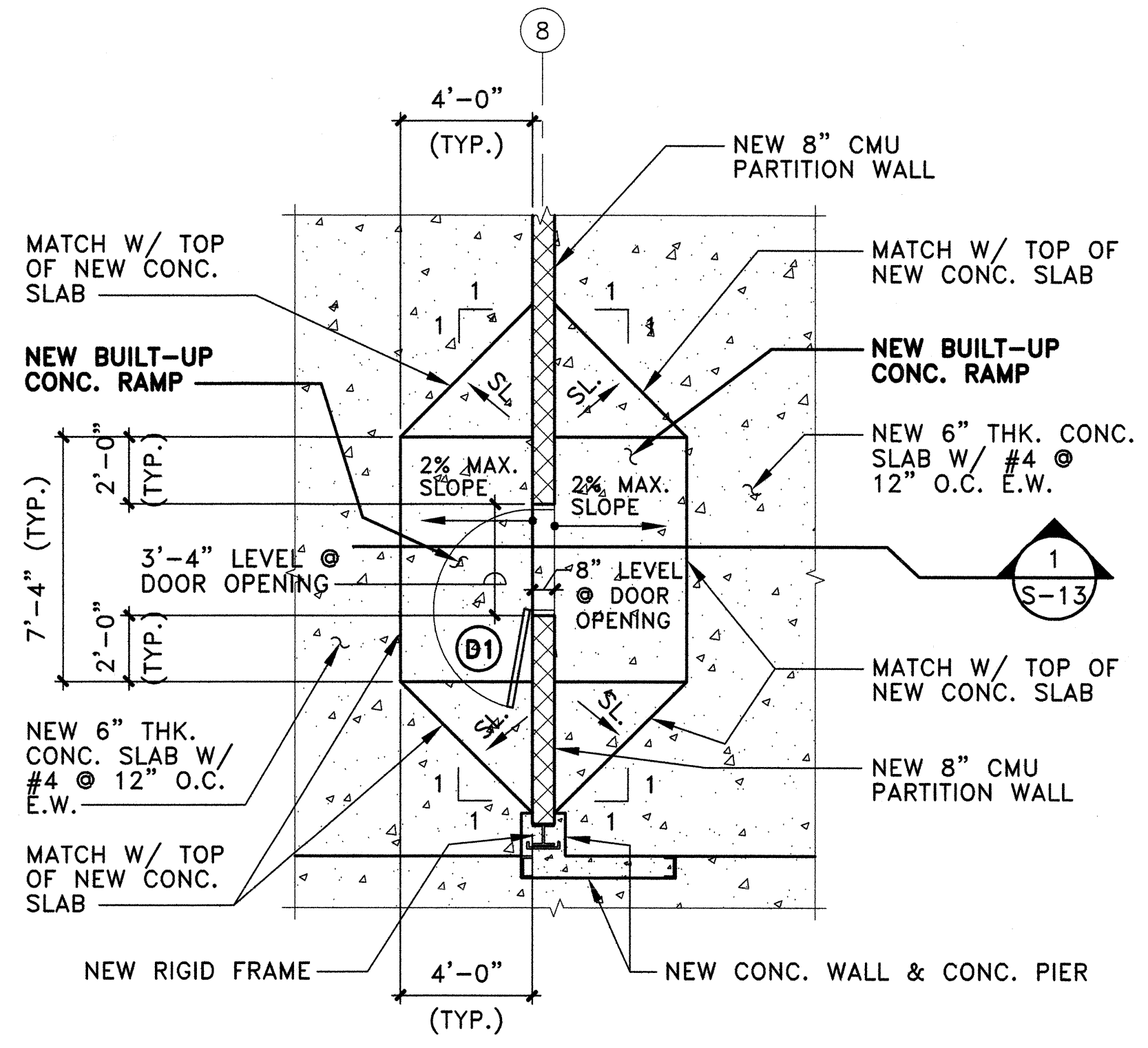
02/26/2016



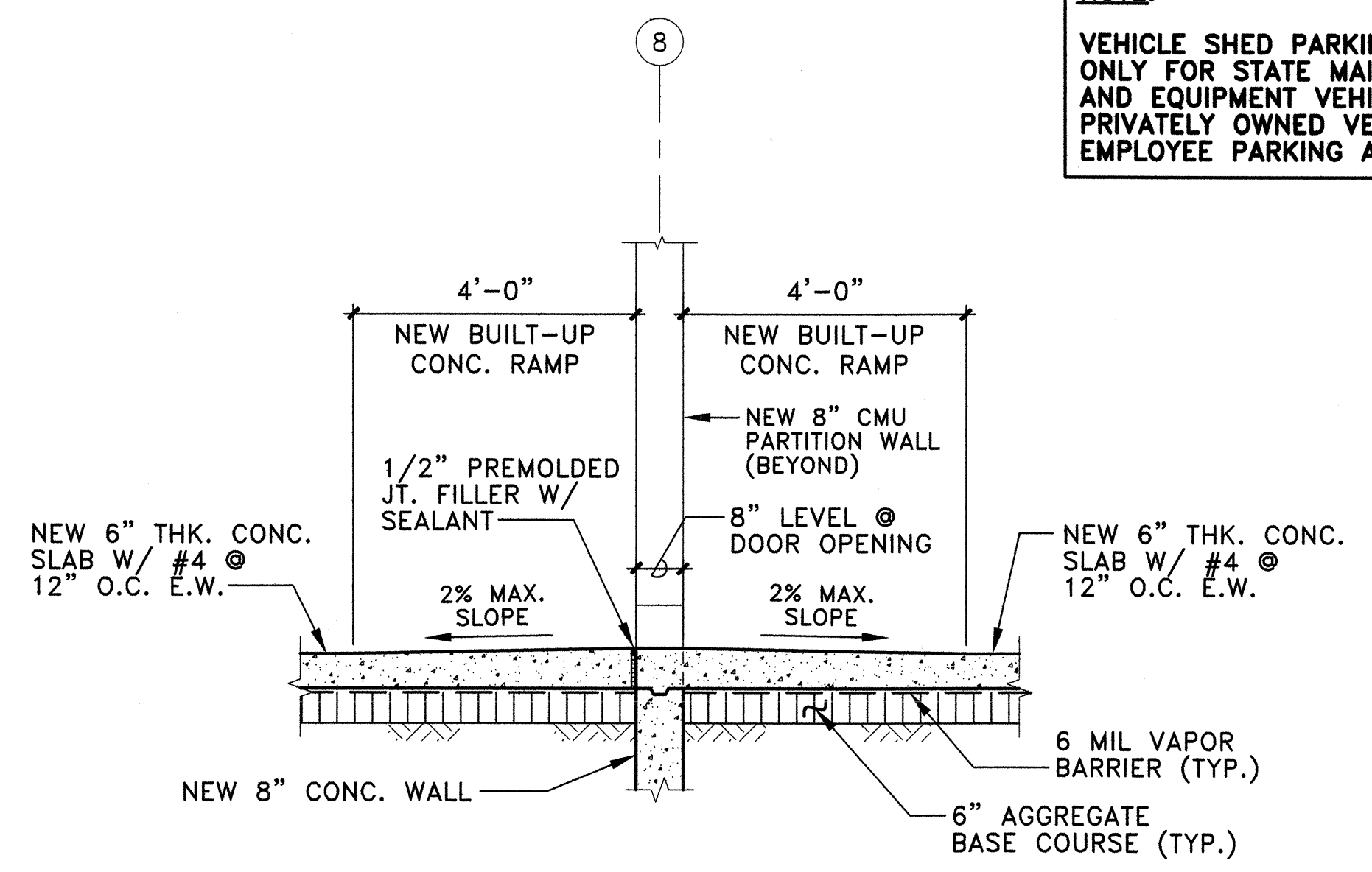
A NEW VEHICLE SHELTER - FLOOR PLAN
 SCALE: 1/8" = 1'-0"

NOTE:
 VEHICLE SHED PARKING/STORAGE ONLY FOR STATE MAINTENANCE AND EQUIPMENT VEHICLES. NO PRIVATELY OWNED VEHICLES OR EMPLOYEE PARKING ALLOWED.

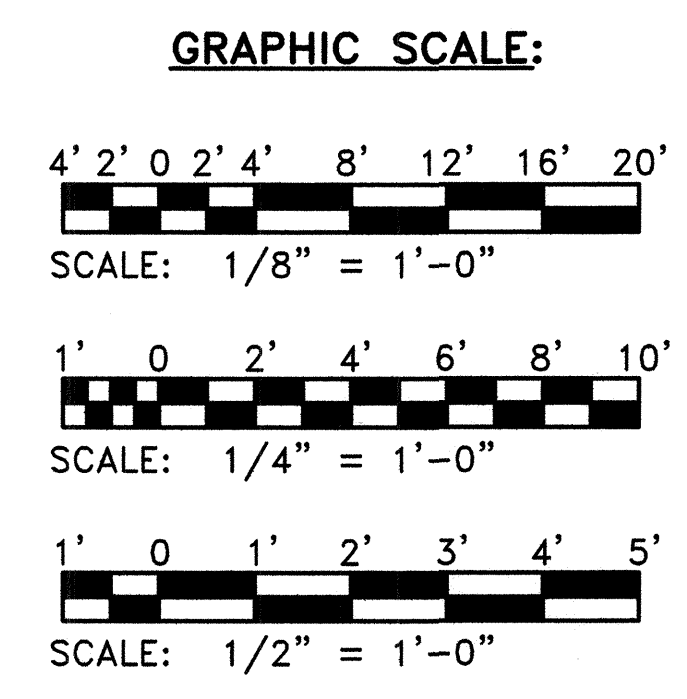
PAINTING AND COLOR SCHEDULE			
LOCATION	ITEM	COLOR	MANUFACTURER
EXTERIOR AND INTERIOR	METAL SIDING, METAL ROOFING, ROLL-UP DOORS, PERSONNEL DOOR, CONTINUOUS RIDGE CAP, GUTTERS, FASCIAS, DOOR FRAMES, DOWN SPOUTS, CONCRETE MASONRY UNIT (CMU) WALLS, PIPE GUARDS, FLOOR STRIPING, ELECTRICAL CONDUITS, PHOTOVOLTAIC PANEL SUPPORTS, ALL STRUCTURAL STEEL MEMBERS INCLUDING RIGID FRAMES, EAVE STRUTS, ROOF PURLINS, GIRTS, BOLTS AND NUTS, BRACING BASE PLATES, PORTAL FRAMES, END WALL FRAMES, SAG RODS, EXPANDED METAL SCREENS, TUBING, ANGLES, AND ALL MISCELLANEOUS METALS	COLOR SELECTED BY OWNER OF MANUFACTURER'S STANDARD COLORS	SEE SPECIFICATION



B ENLARGED PARTIAL PLAN - NEW BUILT-UP CONCRETE RAMP @ D1 DOOR OPENING
 SCALE: 1/4" = 1'-0"

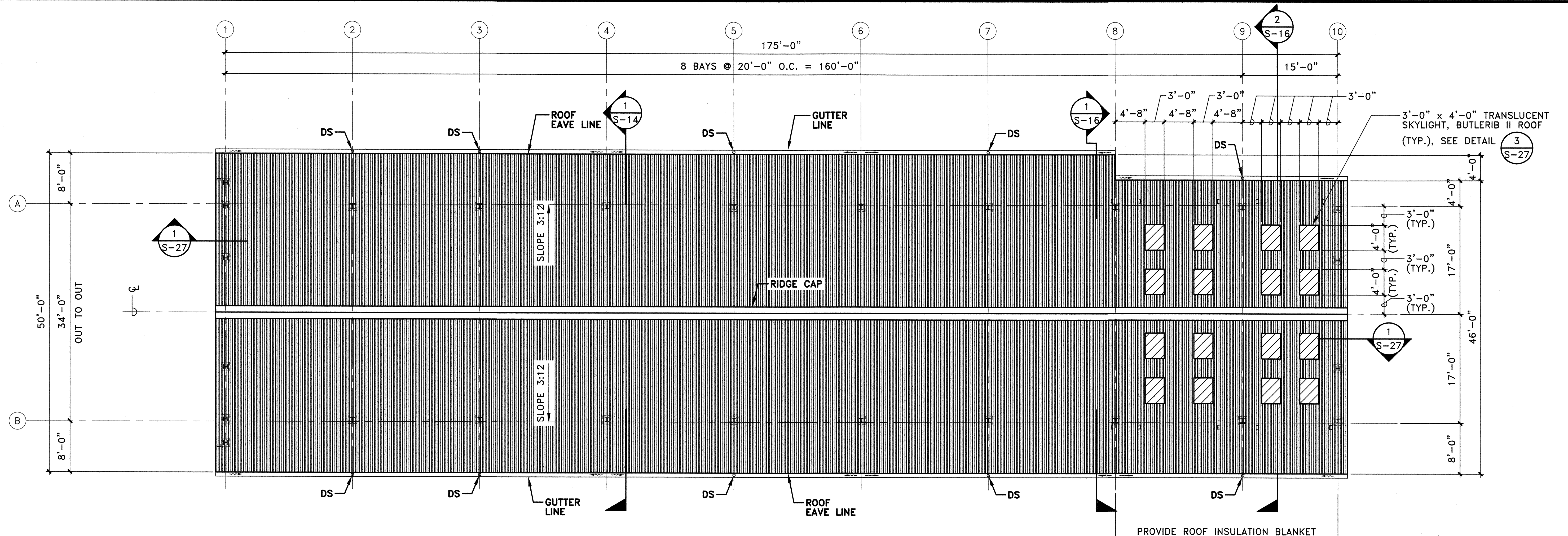


1 SECTION @ DOOR OPENING
 SCALE: 1/2" = 1'-0"



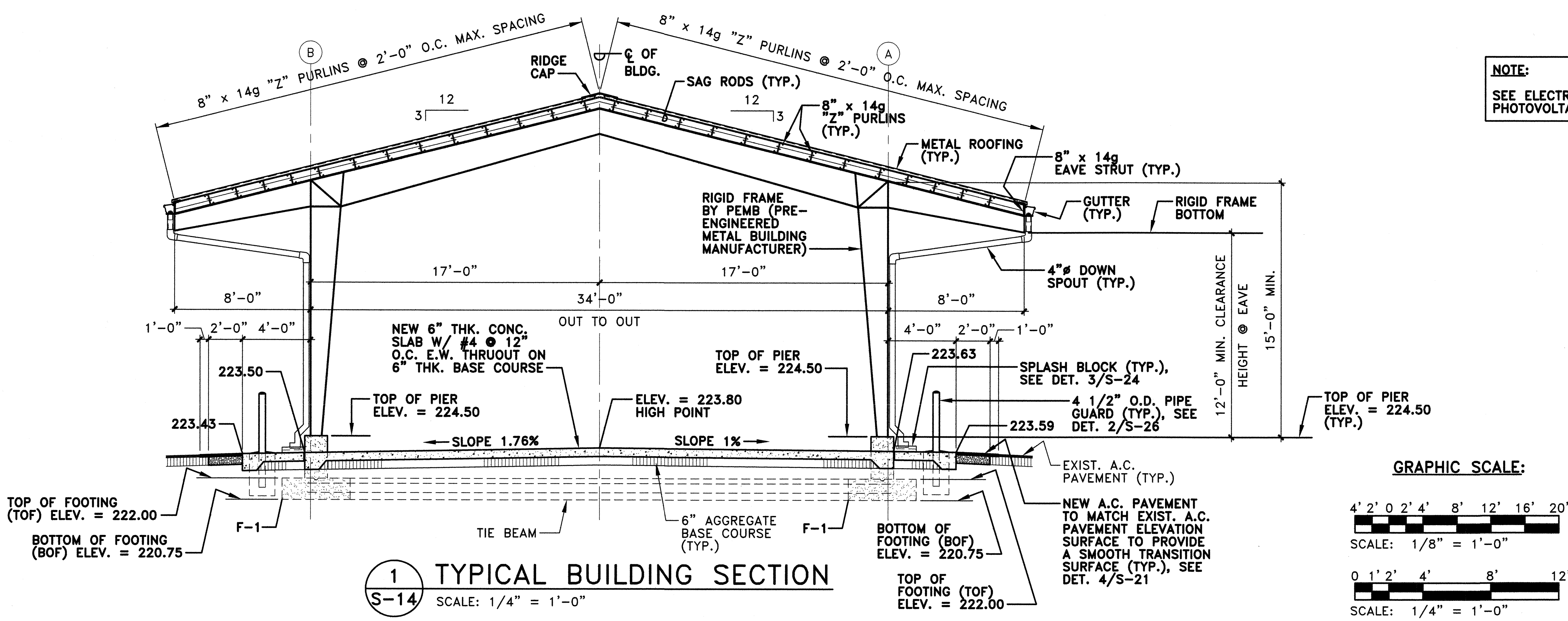
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
NEW VEHICLE SHELTER - FLOOR PLAN, NEW BUILT-UP CONCRETE RAMP PLAN & SECTION, PAINTING AND COLOR SCHEDULE					
DESIGNED:	ATO	SUBMITTED:	GC	DATE:	03/07/2016
DRAWN:	RMA/LC	CHECKED:	ATO	SCALE:	AS SHOWN
APPROVED:	<i>Arnold O. Tetsuji</i> ARNOLD TETSUJI LICENSED PROFESSIONAL ENGINEER No. 4173-S HAWAII, U.S.A.		CHIEF ENGINEER		APR 26 2016 DATE
Expiration date of the license: 04/30/2016					S - 13

02/26/2016

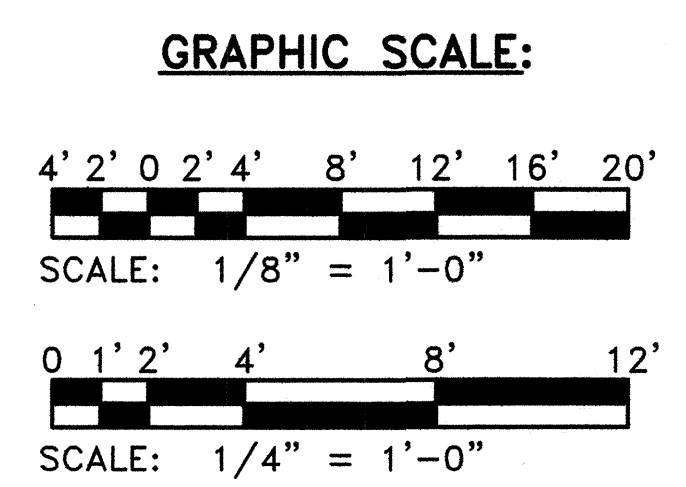


A NEW VEHICLE SHELTER - ROOF PLAN
 S-14 SCALE: 1/8" = 1'-0"

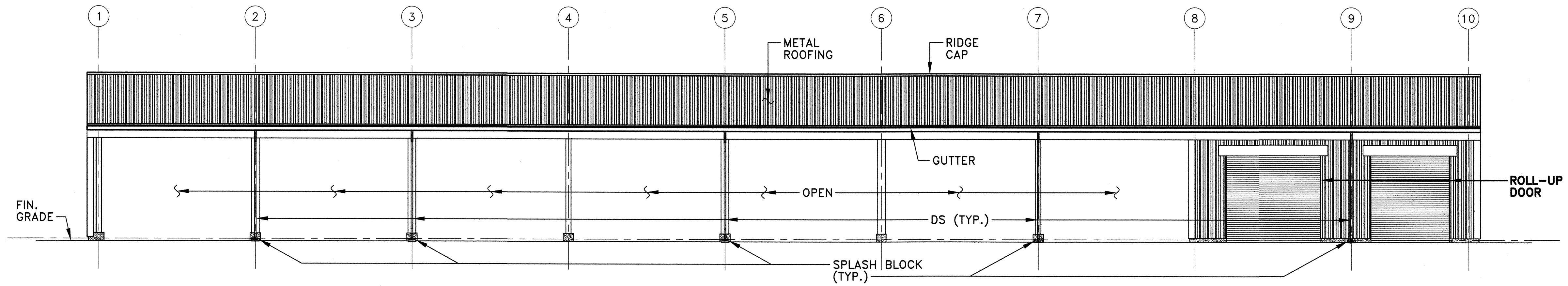
NOTE:
 SEE ELECTRICAL DRAWINGS FOR LOCATION OF PHOTOVOLTAIC PANELS MOUNTED ON THE ROOF



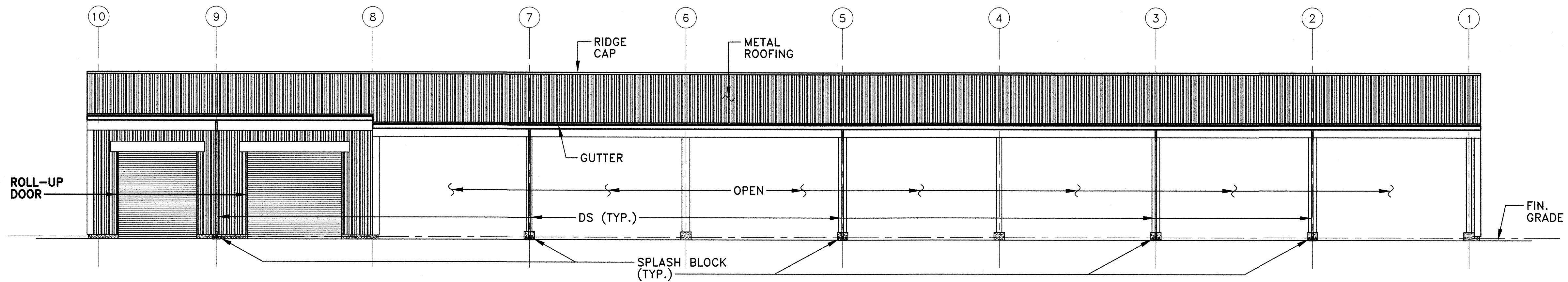
1 TYPICAL BUILDING SECTION
 S-14 SCALE: 1/4" = 1'-0"



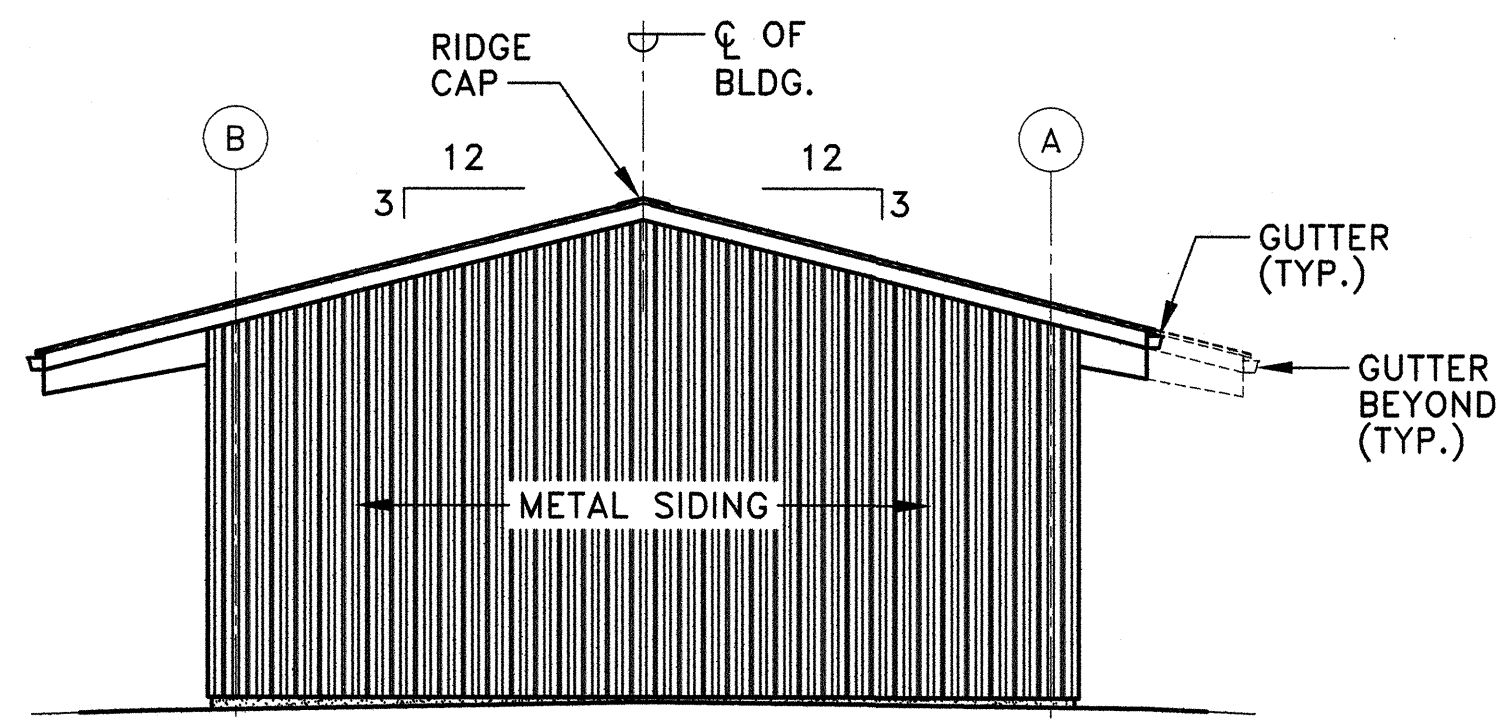
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
NEW VEHICLE SHELTER - ROOF PLAN & TYPICAL BUILDING SECTION					
DESIGNED:	ATO	SUBMITTED:	AS SHOWN		
DRAWN:	RMA/LC	DATE:	03/07/2016		
CHECKED:	ATO	SCALE:	AS SHOWN		
APPROVED:	 ARNOLD J. OKUBO LICENSED PROFESSIONAL ENGINEER No. 4173-S HAWAII, U.S.A.		APR 26 2016 DATE	S-14 DRAWING NO.	
Expiration date of the license: 04/30/2016					



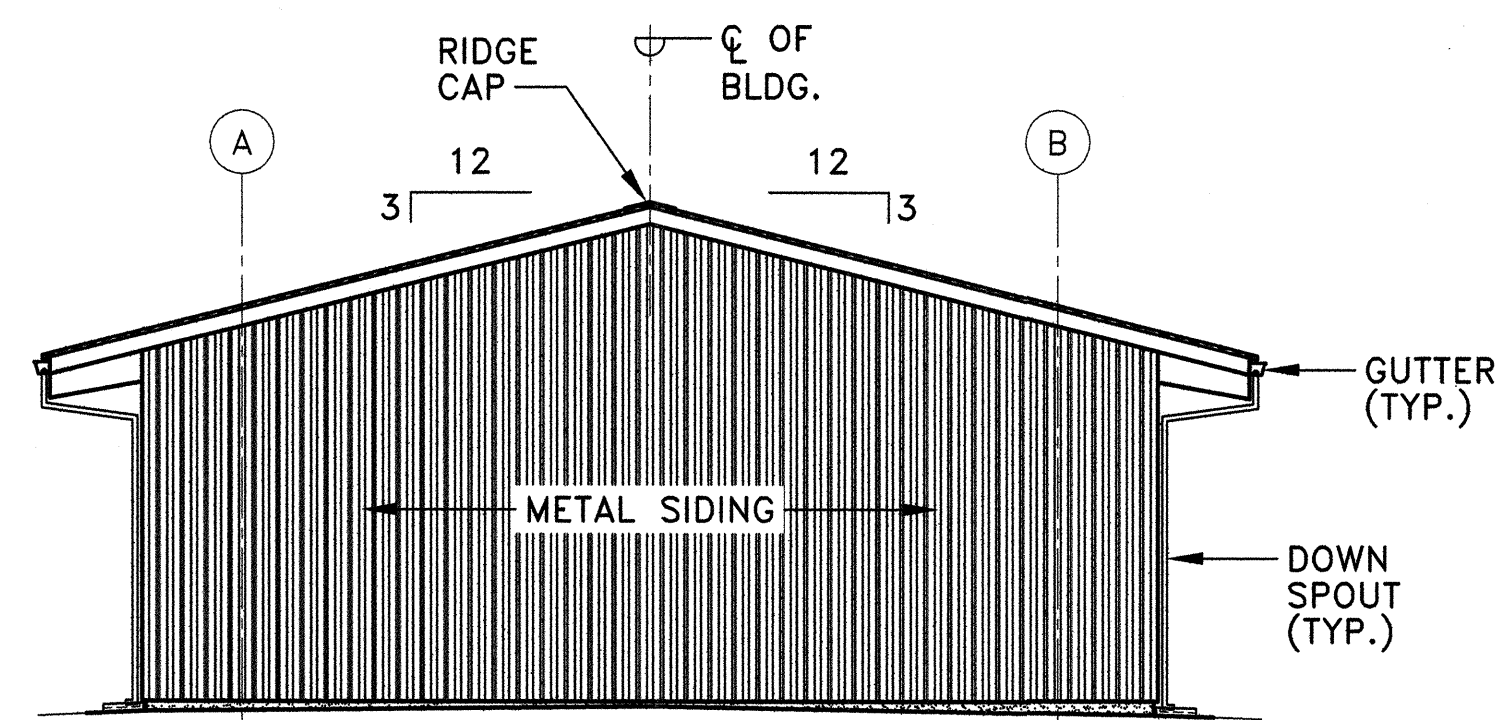
(A) SOUTH ELEVATION



(A) NORTH ELEVATION



EAST ELEVATION

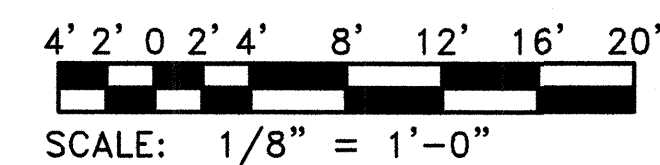


WEST ELEVATION

NOTE:
 ADJUST DOOR HEIGHT AND FRAMING LOCATION FOR FINISH FLOOR ELEVATION AT ENTRANCE ALONG GRID LINES (A) AND (B)
 FINISH FLOOR ALONG ENTRANCES DIFFER FOR GRID LINES (A) AND (B)

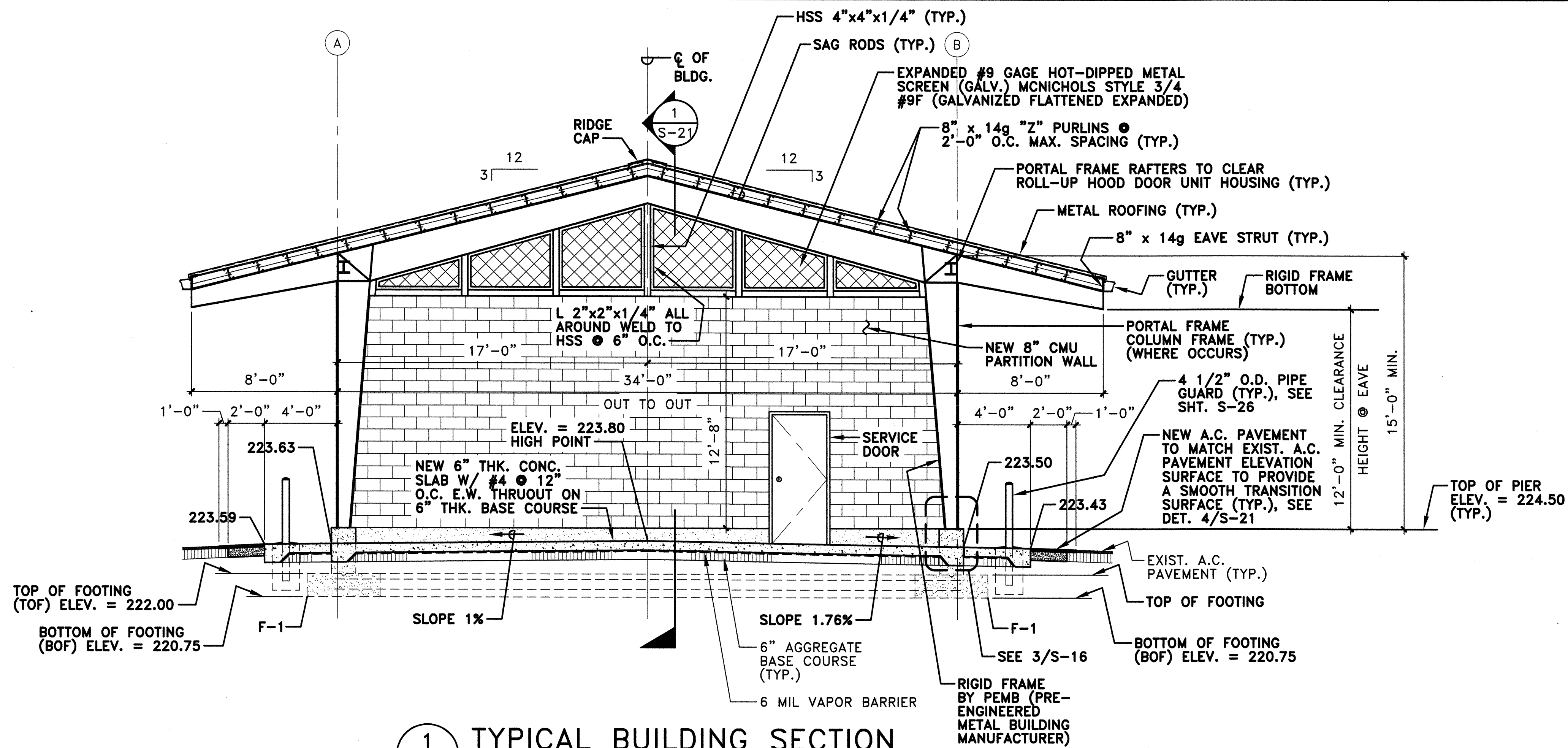
1 NEW VEHICLE SHELTER - EXTERIOR ELEVATIONS
 S-15 SCALE: 1/8" = 1'-0"

GRAPHIC SCALE:



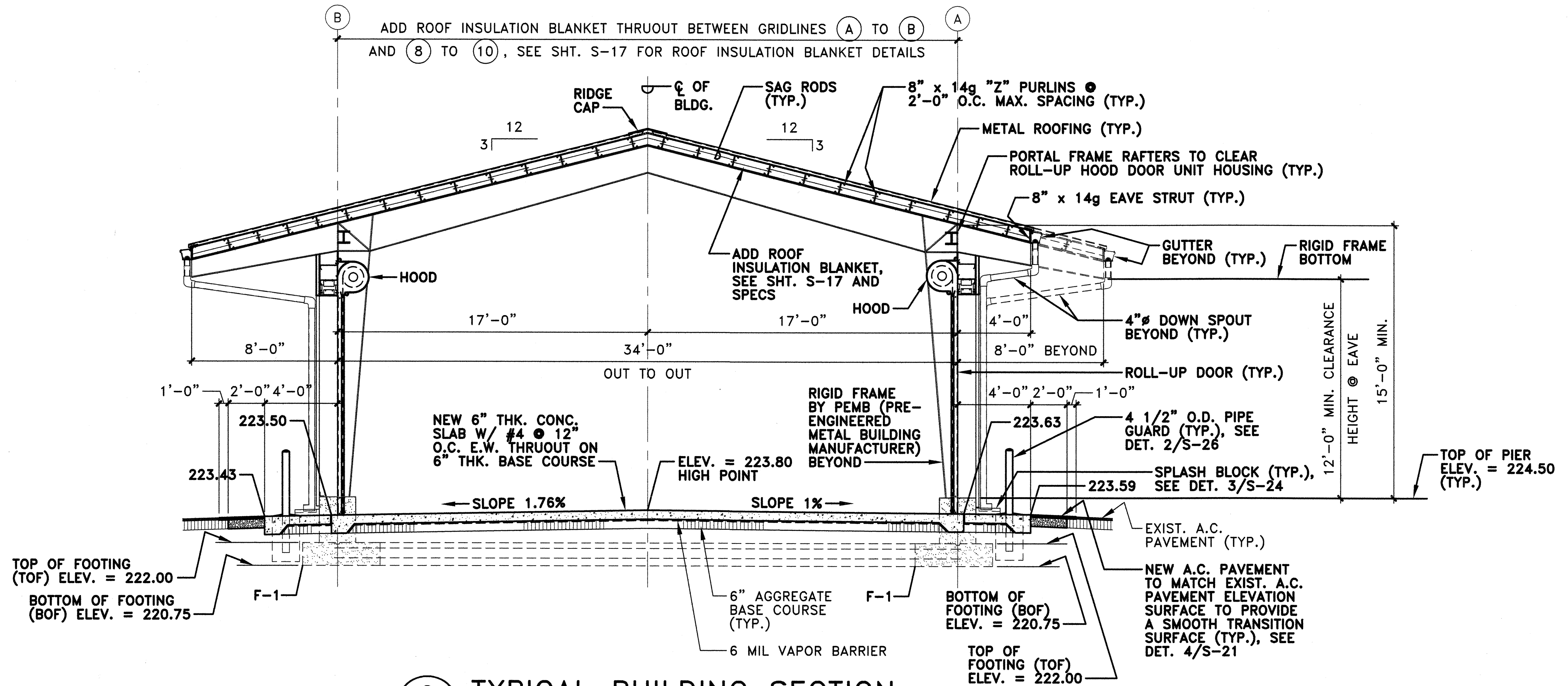
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
NEW VEHICLE SHELTER - EXTERIOR ELEVATIONS					
DESIGNED:	ATO	SUBMITTED:	gc	DATE:	03/07/2016
DRAWN:	RMA/LC	CHECKED:	ATO	SCALE:	AS SHOWN
APPROVED:	<i>Arnold Tetsuji Okubo</i>	CHIEF ENGINEER	DATE:	APR 26 2015	DRAWING NO. S-15
Expiration date of the license: 04/30/2016					

02/26/2016

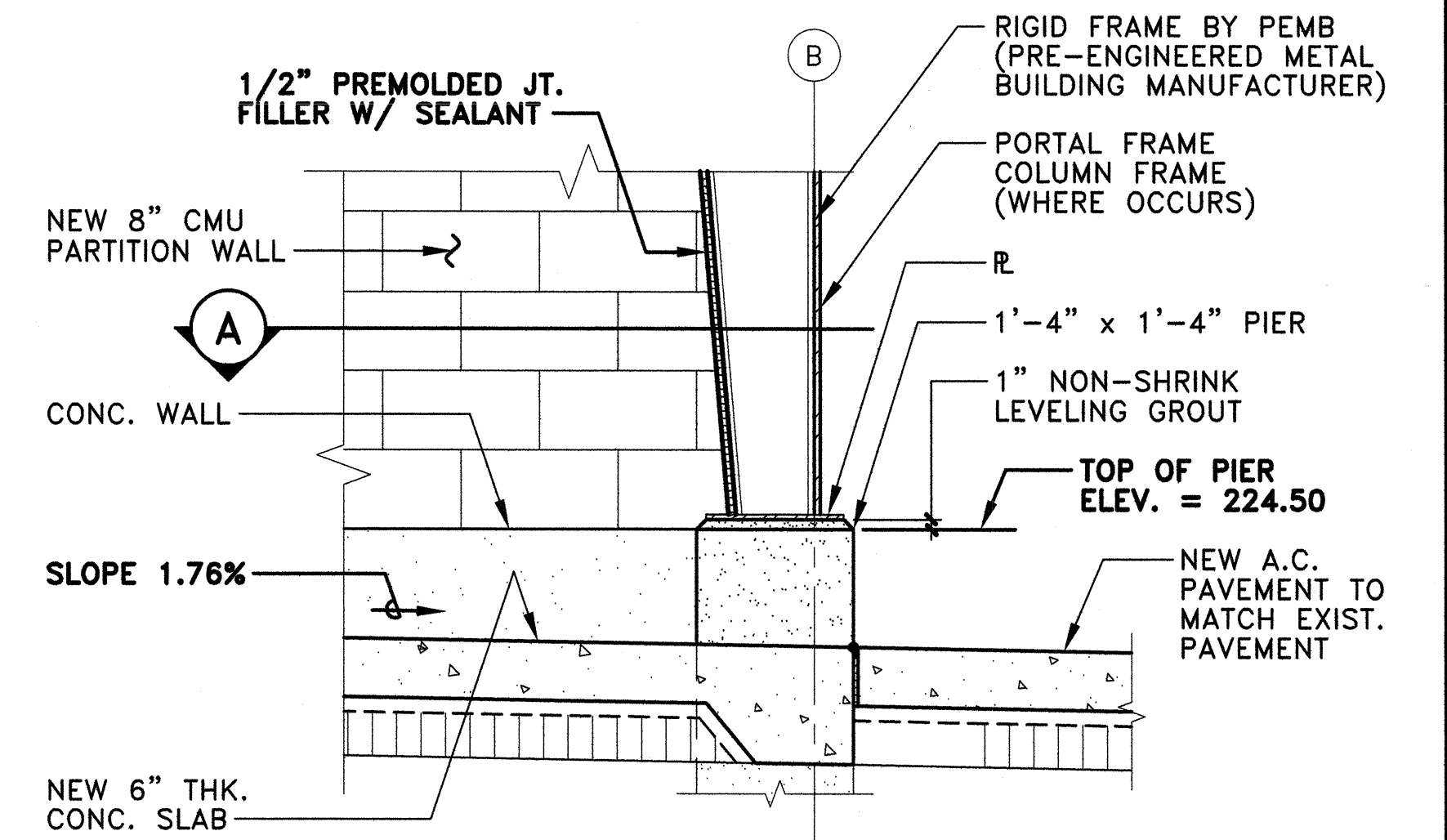
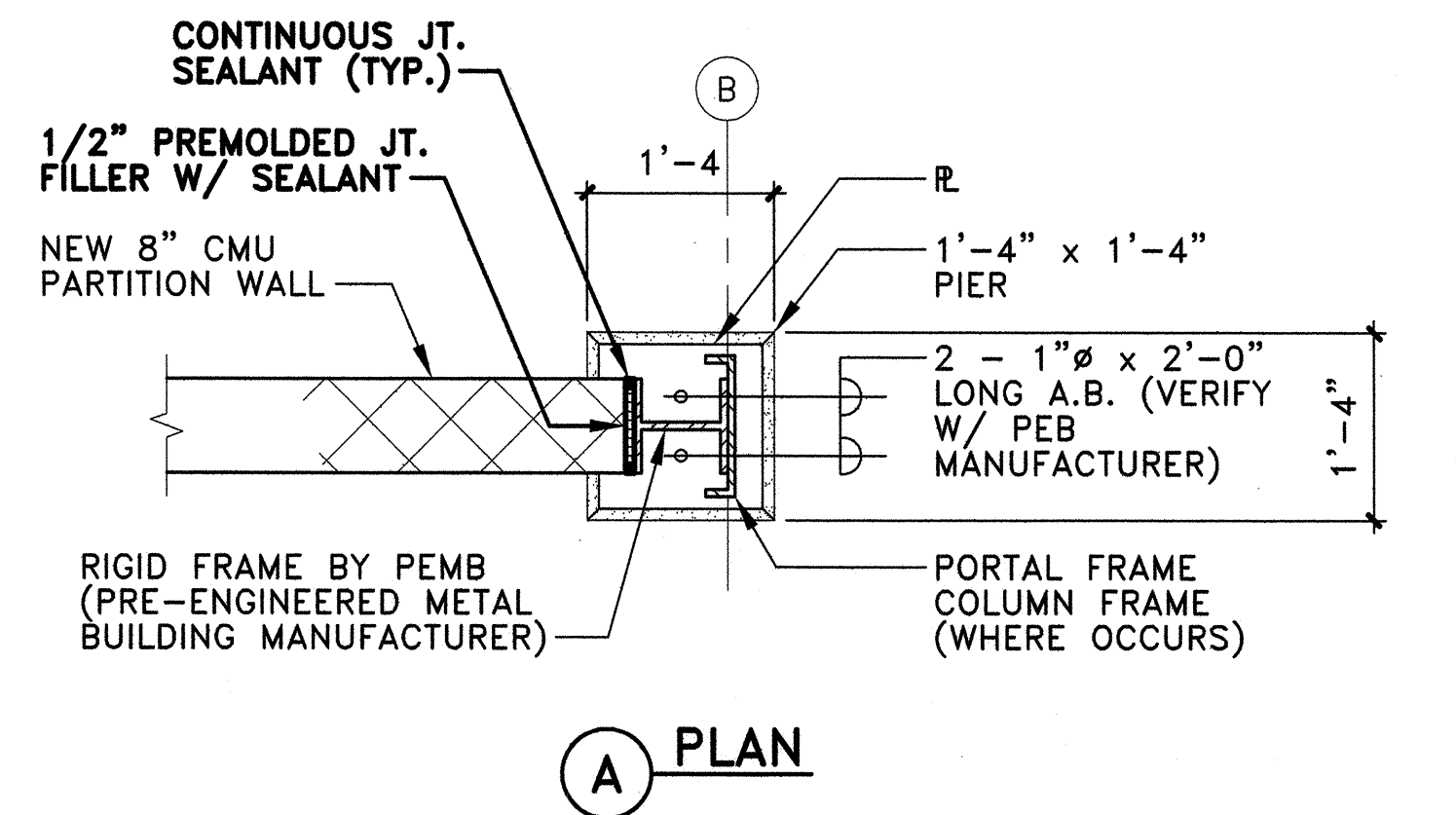


1 TYPICAL BUILDING SECTION
S-16 SCALE: 1/4" = 1'-0"

ADD ROOF INSULATION BLANKET THRUOUT BETWEEN GRIDLINES (A) TO (B) AND (8) TO (10), SEE SHT. S-17 FOR ROOF INSULATION BLANKET DETAILS

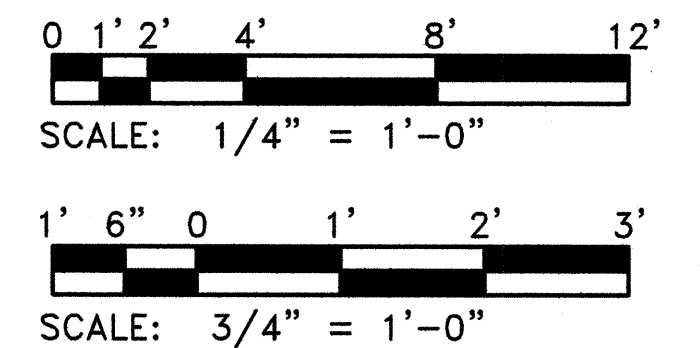


2 TYPICAL BUILDING SECTION
S-16 SCALE: 1/4" = 1'-0"

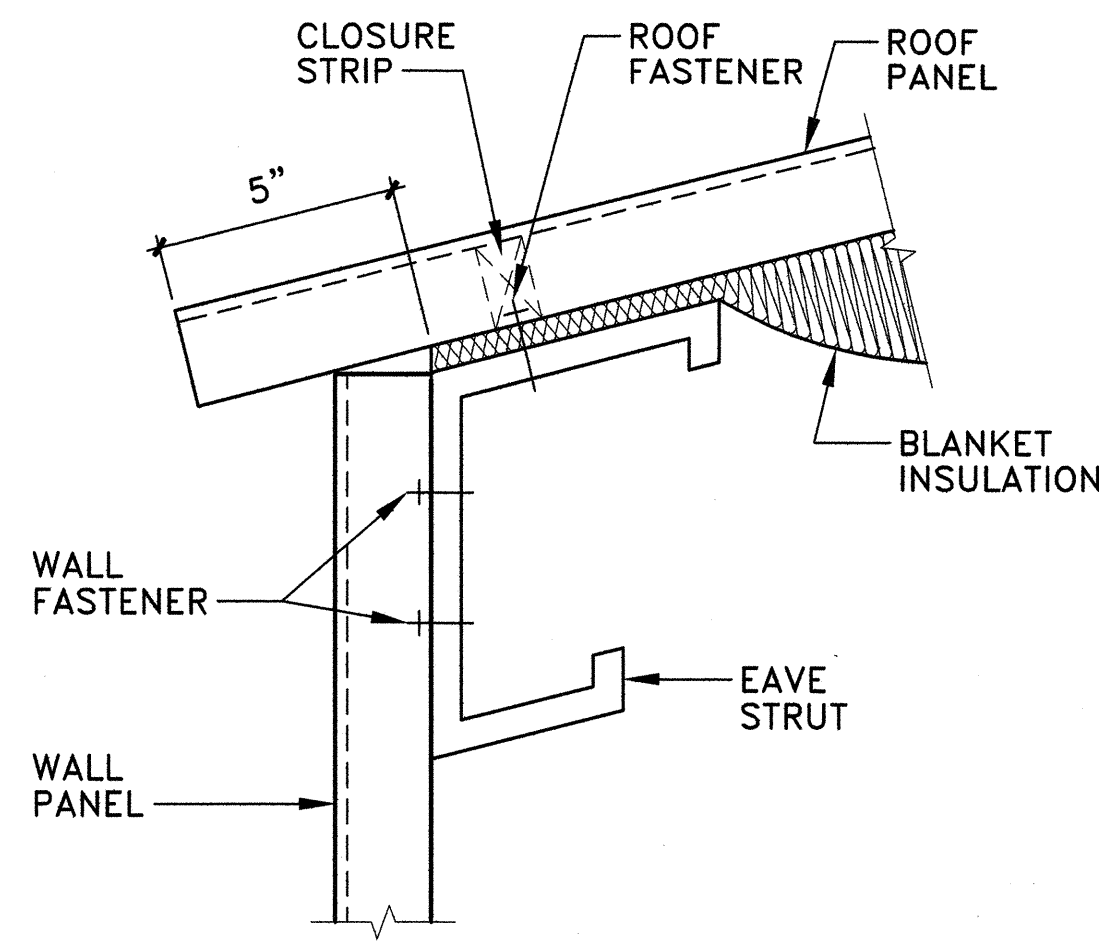


3 TYPICAL DETAILS
S-16 SCALE: 3/4" = 1'-0"

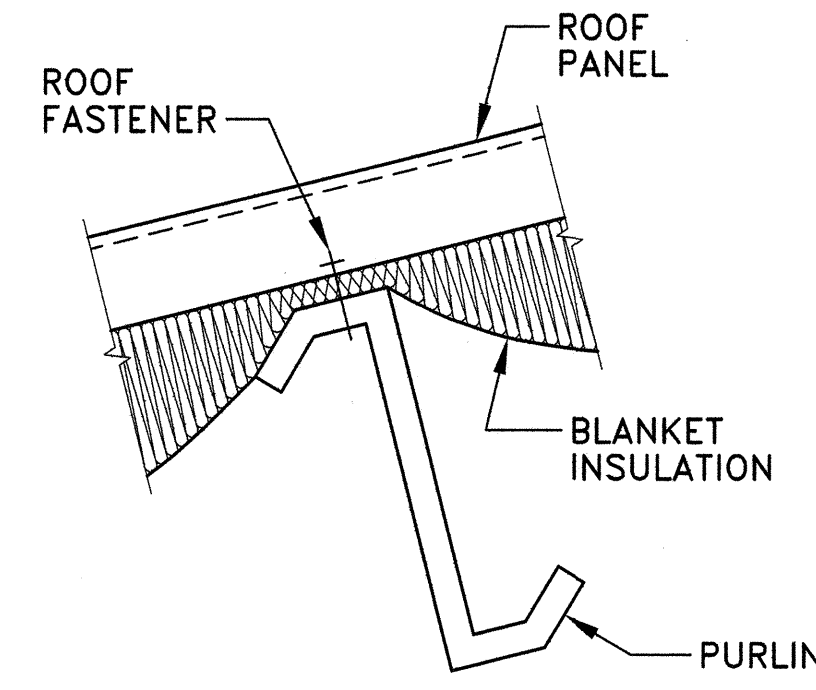
GRAPHIC SCALE:



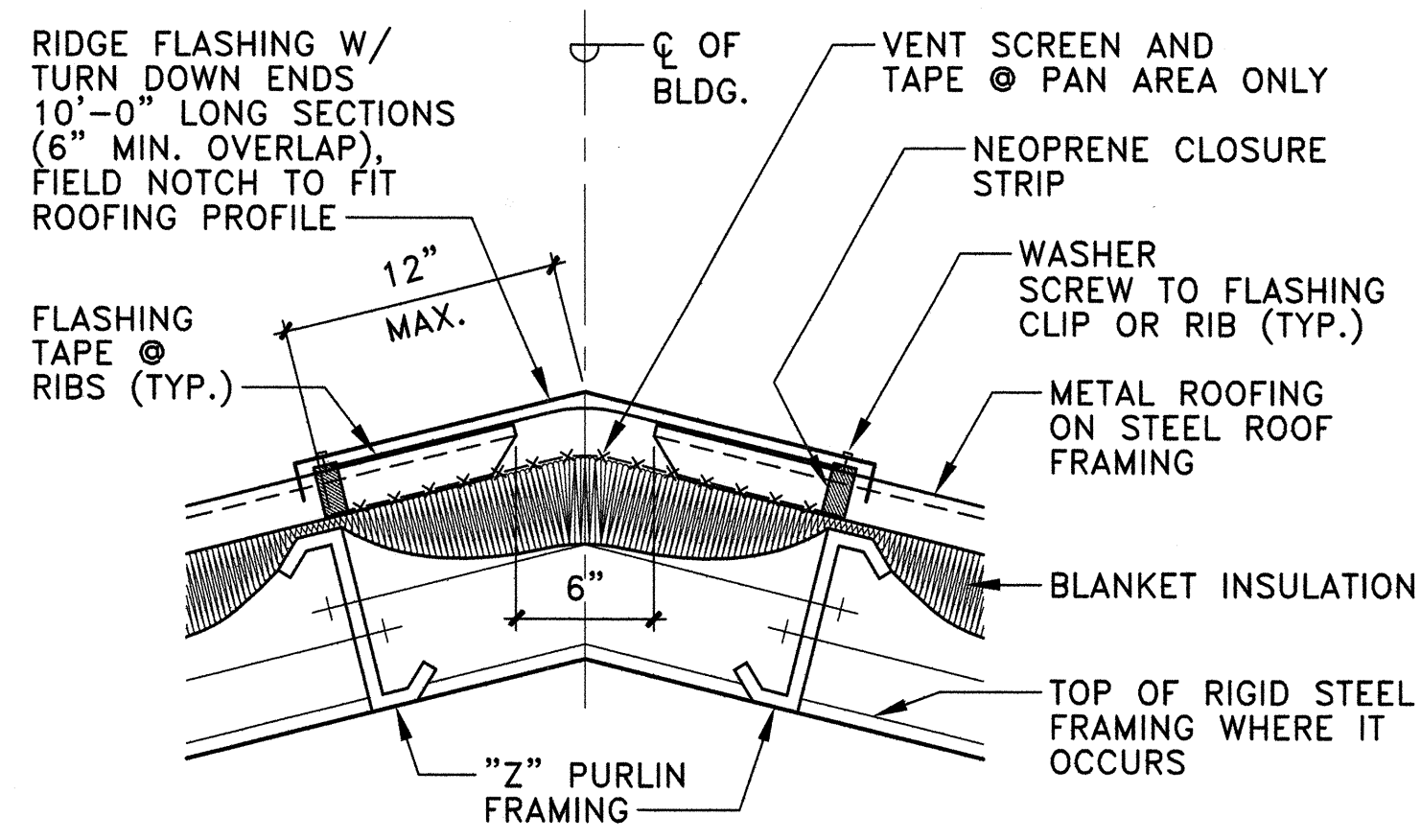
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
TYPICAL BUILDING SECTIONS & TYPICAL DETAILS					
DESIGNED: ATO		SUBMITTED: <i>g</i>			
DRAWN: RMA/LC		DATE: 03/07/2016			
CHECKED: ATO		SCALE: AS SHOWN			
APPROVED: <i>Arnold Tetsuji Okubo</i>		DATE: APR 26 2016		DRAWING NO. S-16	
Expiration date of the license: 04/30/2016					



A EAVE DETAIL WITH STANDARD BLANKET (WHERE OCCURS)

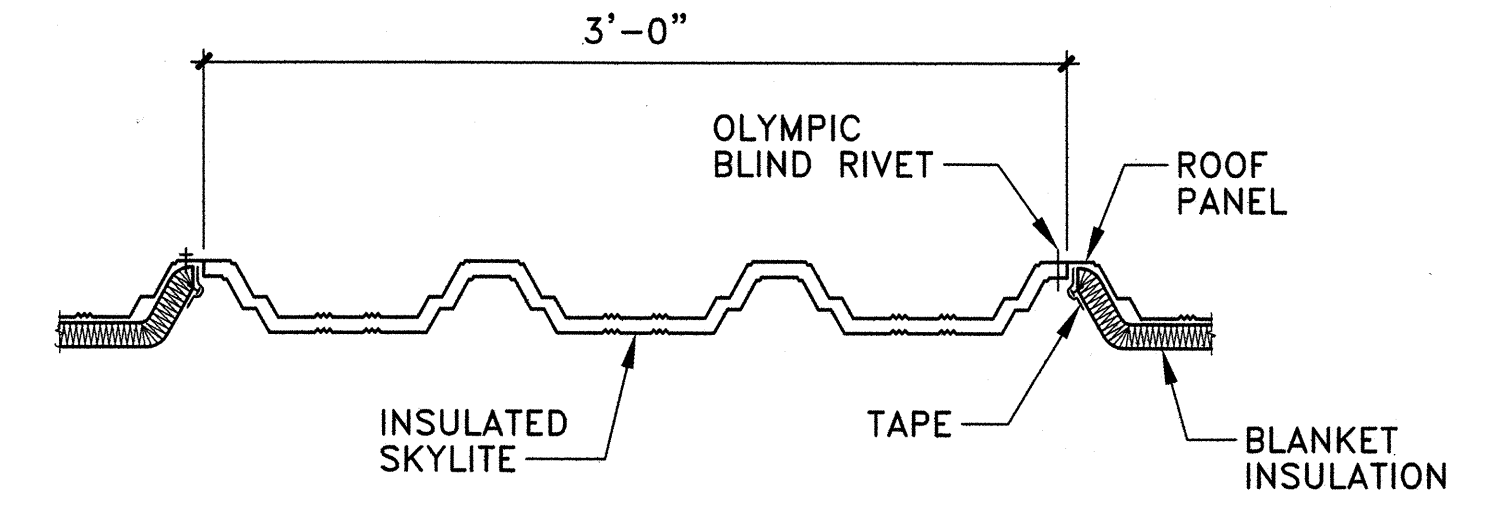


B PURLIN DETAIL WITH STANDARD BLANKET

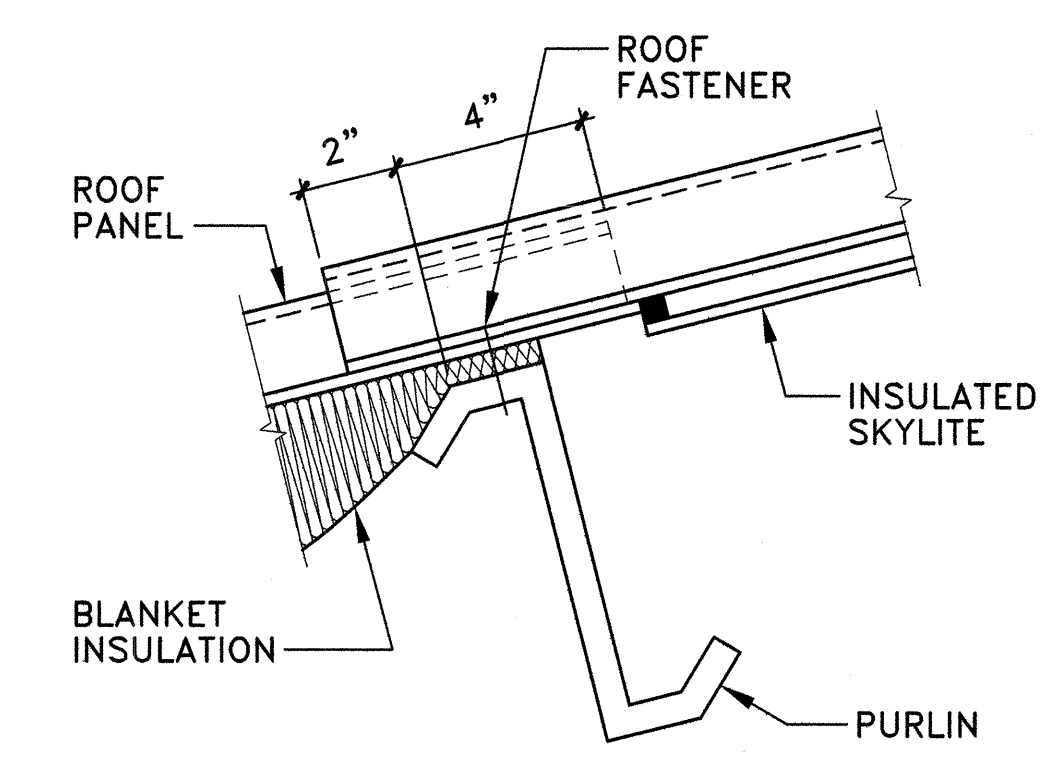


C RIDGE DETAIL WITH STANDARD BLANKET

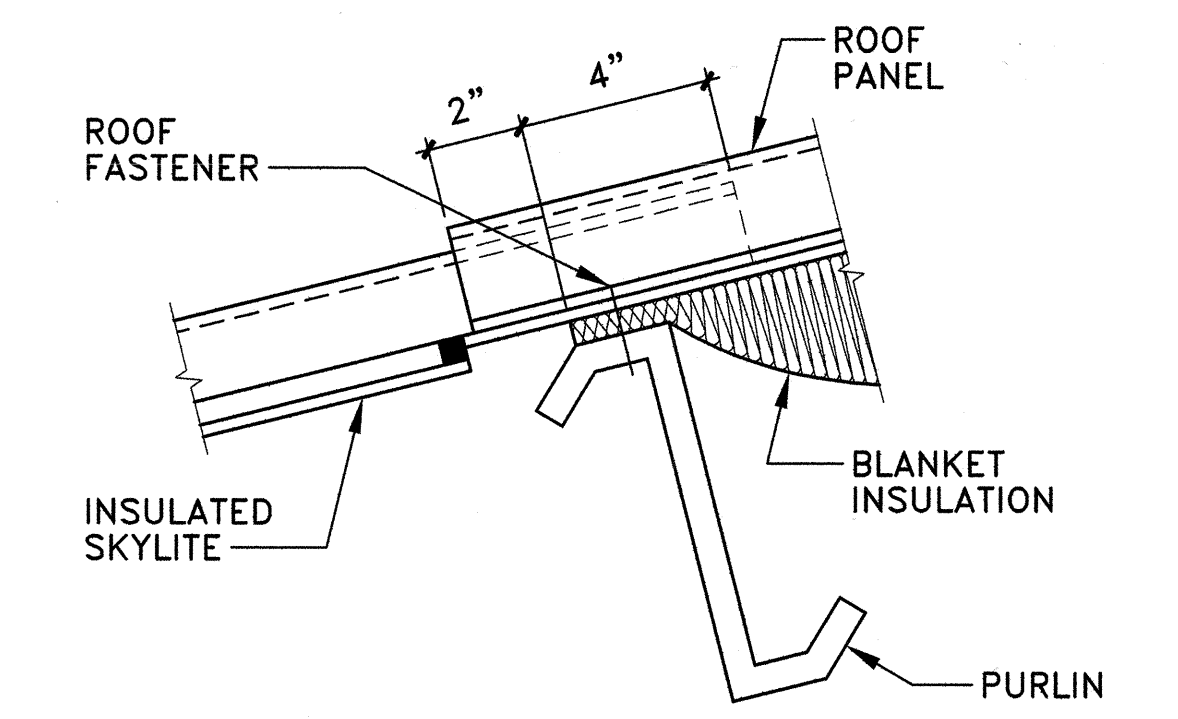
1 ROOF DETAILS WITH BLANKET INSULATION
S-17 NOT TO SCALE



A PANEL CROSS SECTION



B SECTION AT BOTTOM END LAP

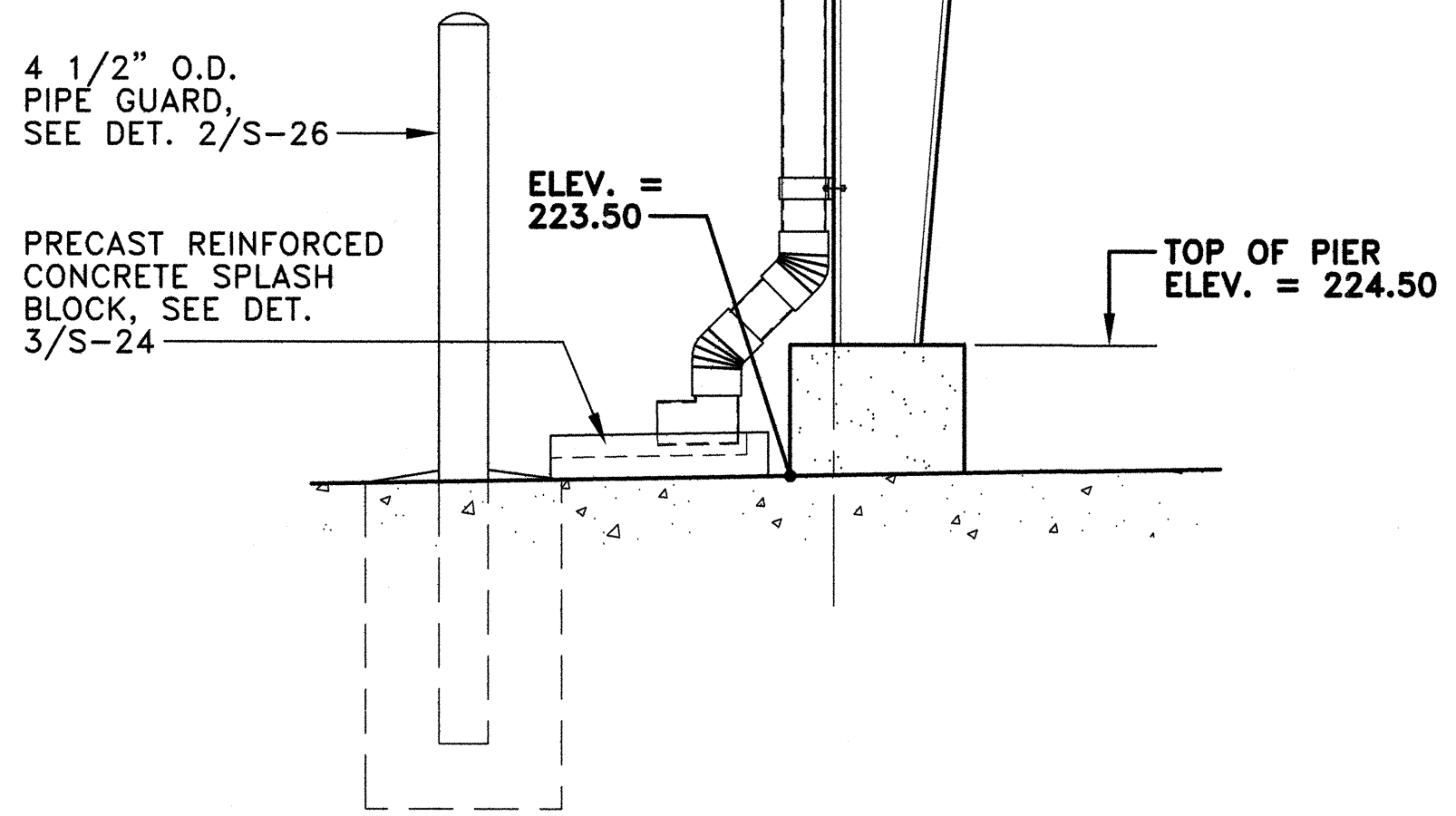
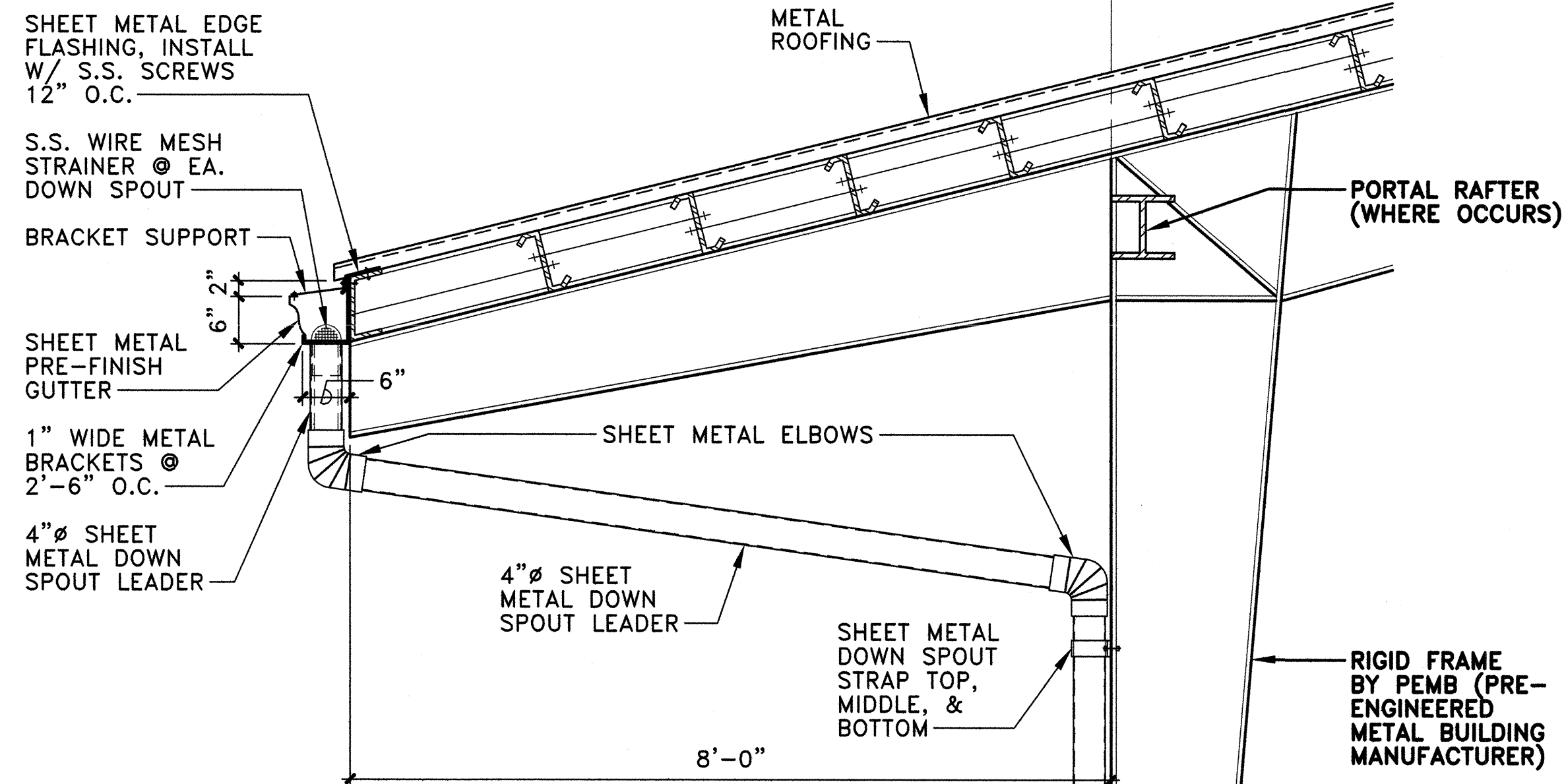


C SECTION AT TOP END LAP

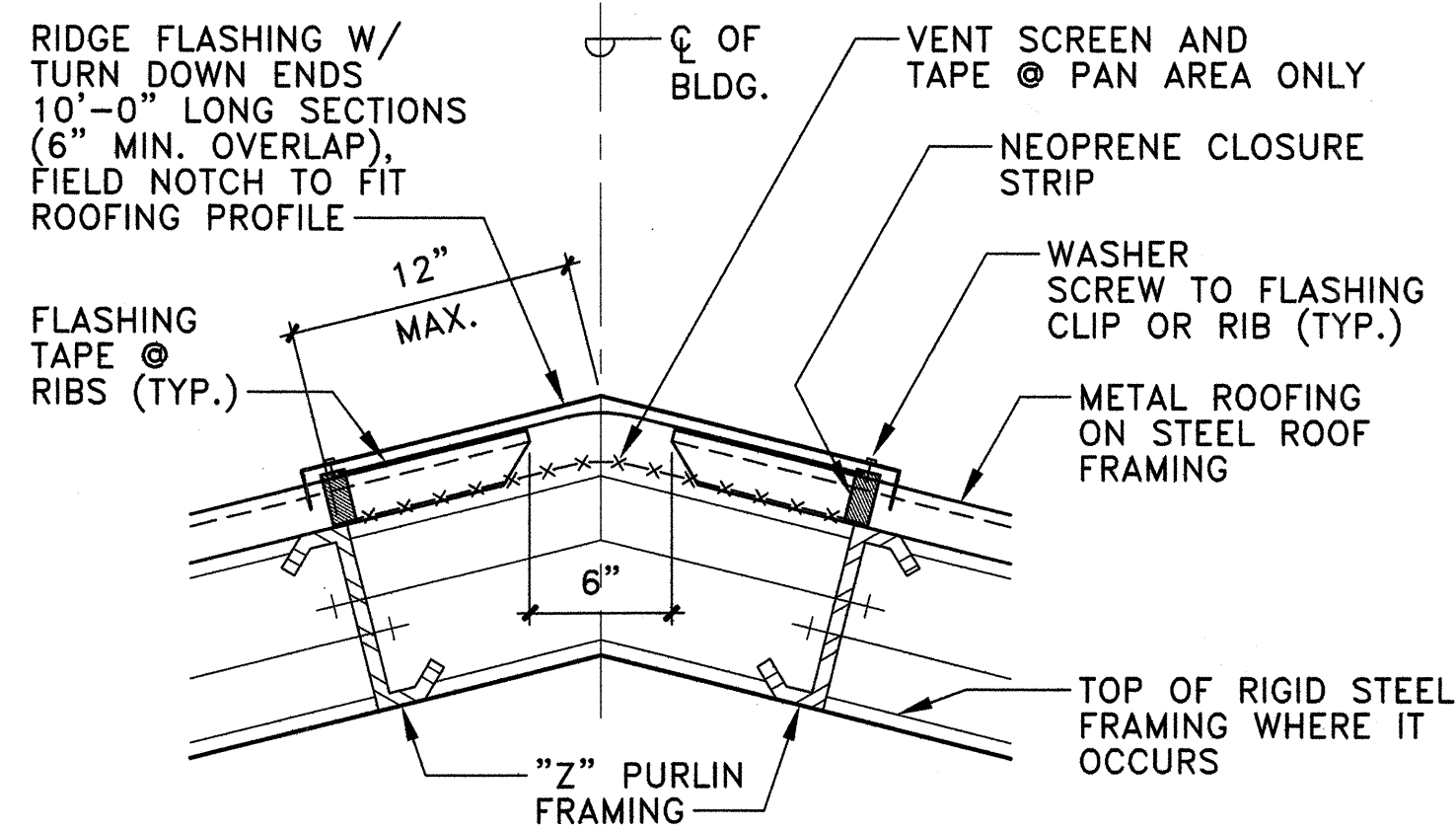
2 ACCESSORY DETAILS WITH BLANKET INSULATION
S-17 NOT TO SCALE

02/26/2016

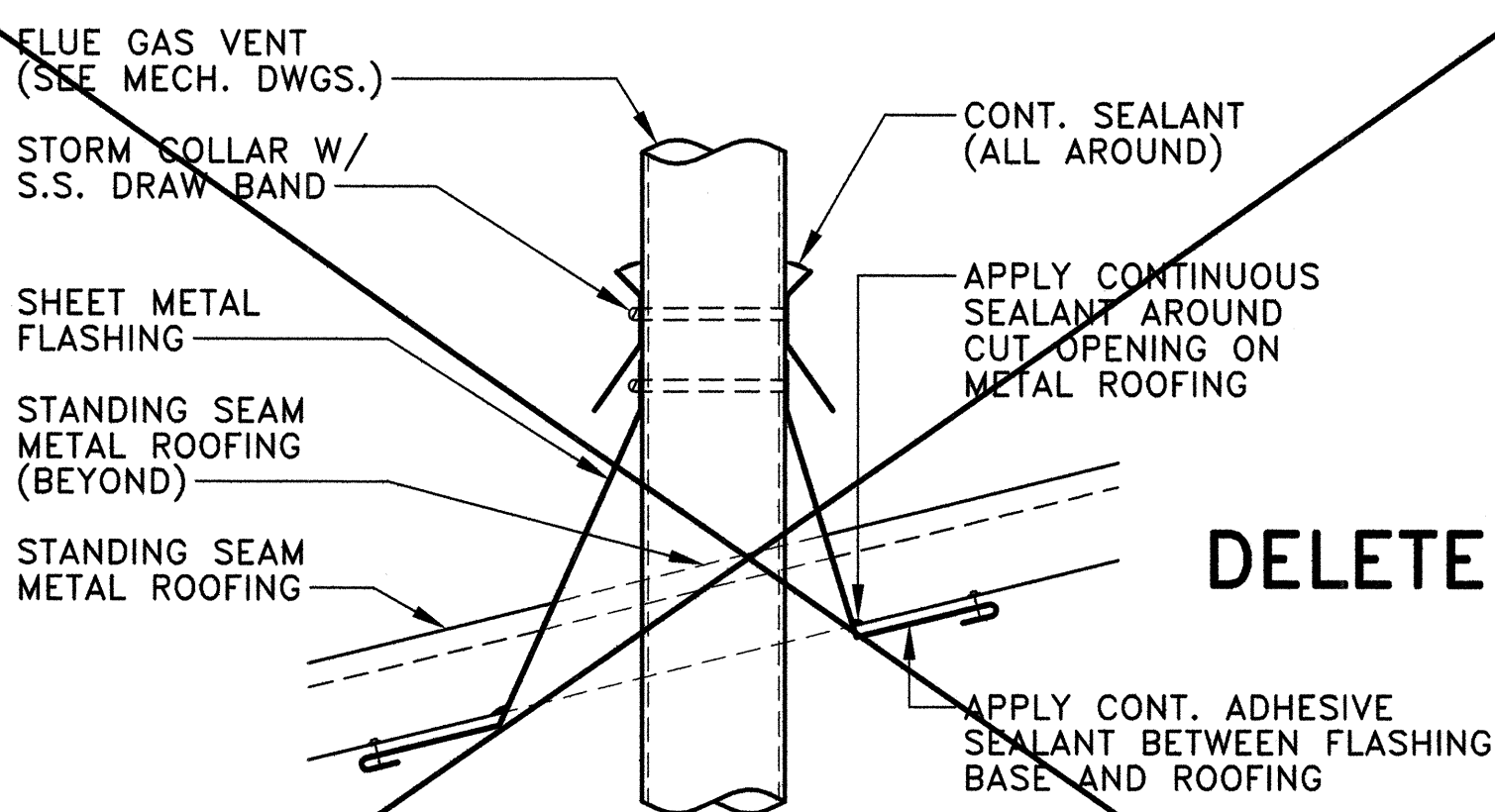
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
TYPICAL ROOF DETAILS					
DESIGNED: ATO		SUBMITTED: <i>ato</i>			
DRAWN: RMA/LC		DATE: 03/07/2016			
CHECKED: ATO		SCALE: AS SHOWN			
APPROVED: <i>Armedo Tetsuji Okubo</i>		DATE: APR 26 2016		DRAWING NO. S-17	
Expiration date of the license: 04/30/2016					



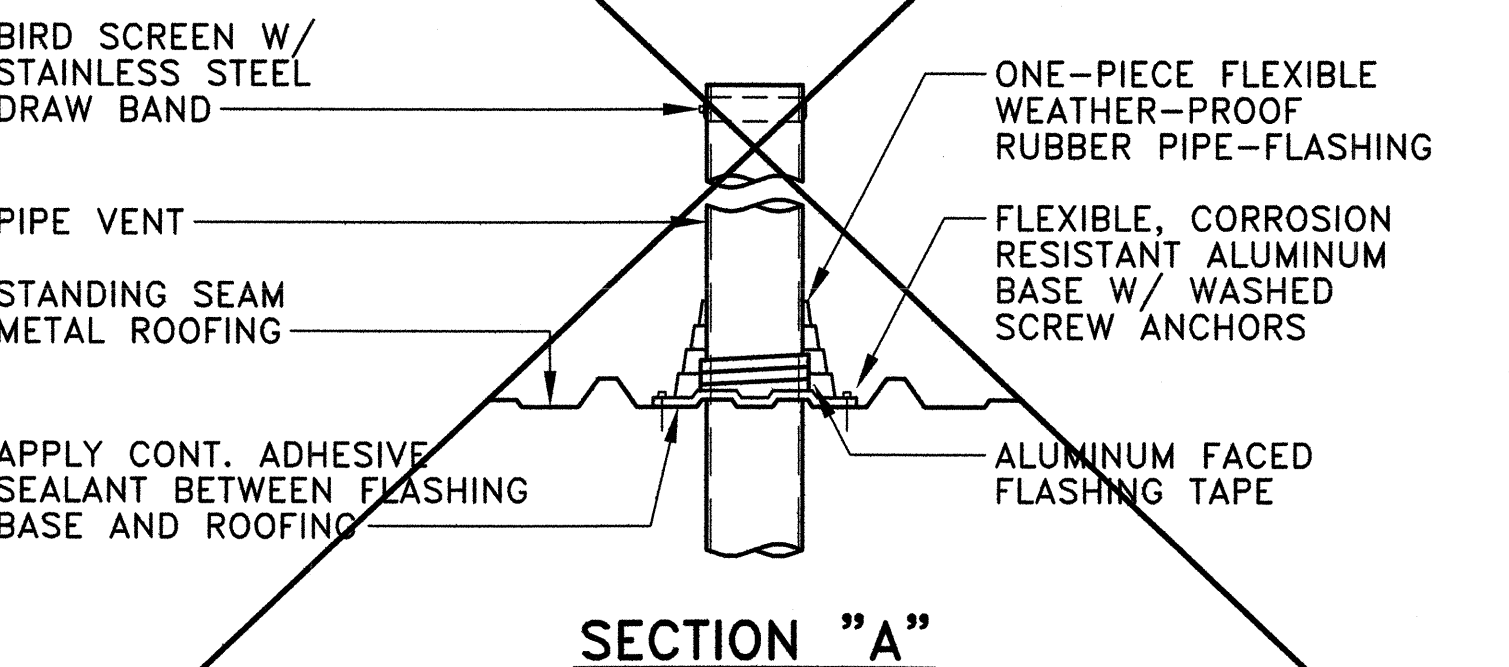
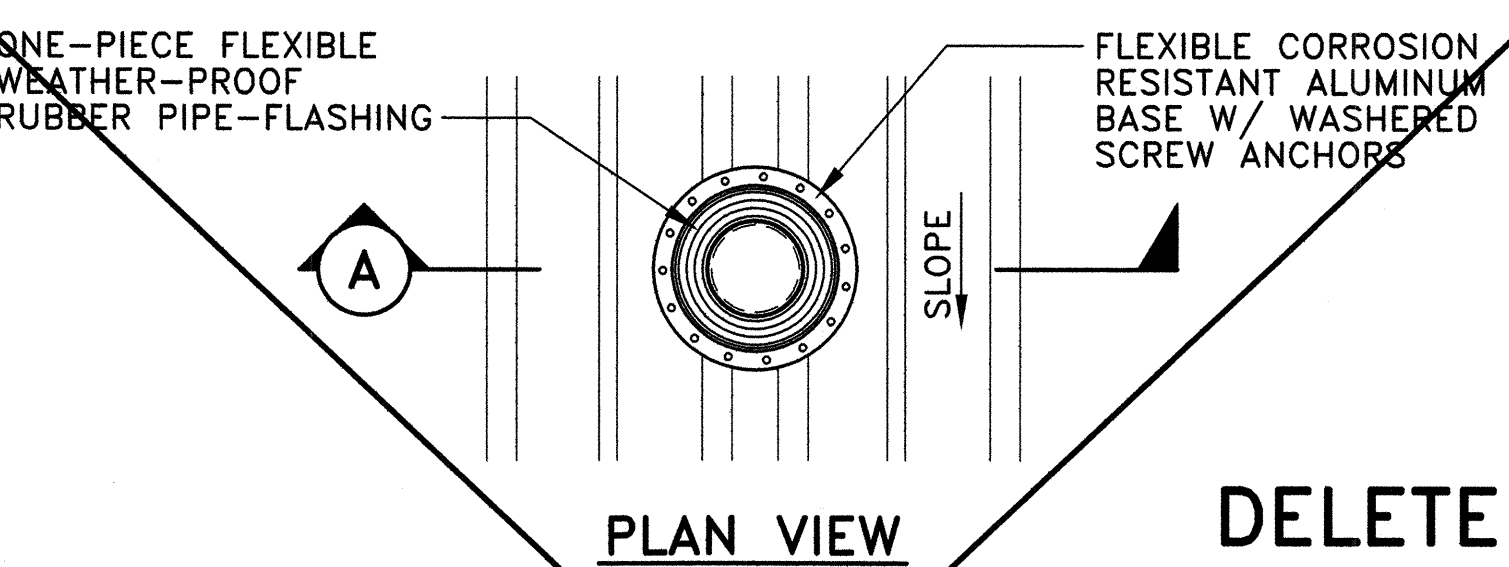
1 GUTTER DETAIL
S-18 SCALE: 3/4" = 1'-0"



2 RIDGE DETAIL
S-18 SCALE: 1 1/2" = 1'-0"

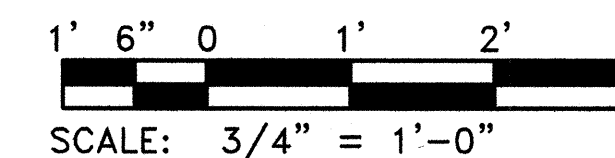


3 FLUE STACK DETAIL
S-18 SCALE: 1 1/2" = 1'-0"

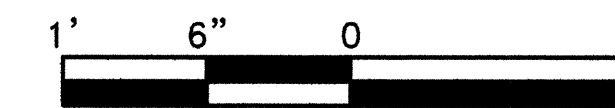


4 VENT PIPE FLASHING DETAIL
S-18 SCALE: 1 1/2" = 1'-0"

GRAPHIC SCALE:



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

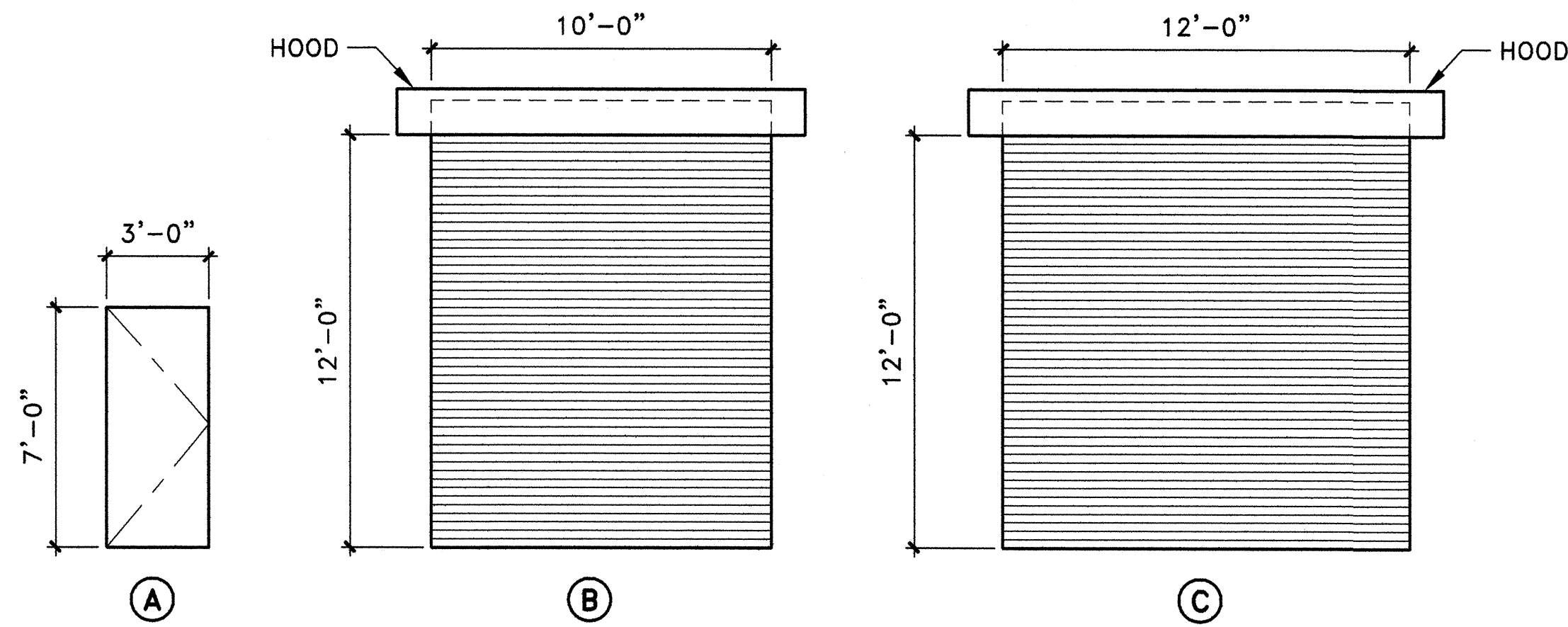


SCALE: 1 1/2" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
GUTTER DETAILS & ROOF DETAILS					
DESIGNED: ATO		SUBMITTED: <i>gc</i>		DATE: 03/07/2016	
DRAWN: RMA/LC		CHECKED: ATO		SCALE: AS SHOWN	
APPROVED: <i>Arnold Tetsuji Okubo</i>		CHIEF ENGINEER		DRAWING NO. S-18	
Expiration date of the license: 04/30/2016					

DOOR TYPES

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



(A)
FLUSH METAL DOOR W/ CLOSURE DOOR & FRAME TO BE SUPPLIED BY PRE-ENGINEERED BUILDING MANUFACTURER

(B)
OVERHEAD COILING DOOR METAL ROLL-UP DOOR W/ MANUAL CHAIN OPERATOR DOOR & FRAME TO BE SUPPLIED BY PRE-ENGINEERED BUILDING MANUFACTURER

(C)
OVERHEAD COILING DOOR METAL ROLL-UP DOOR W/ MANUAL CHAIN OPERATOR DOOR & FRAME TO BE SUPPLIED BY PRE-ENGINEERED BUILDING MANUFACTURER

DOOR SCHEDULE

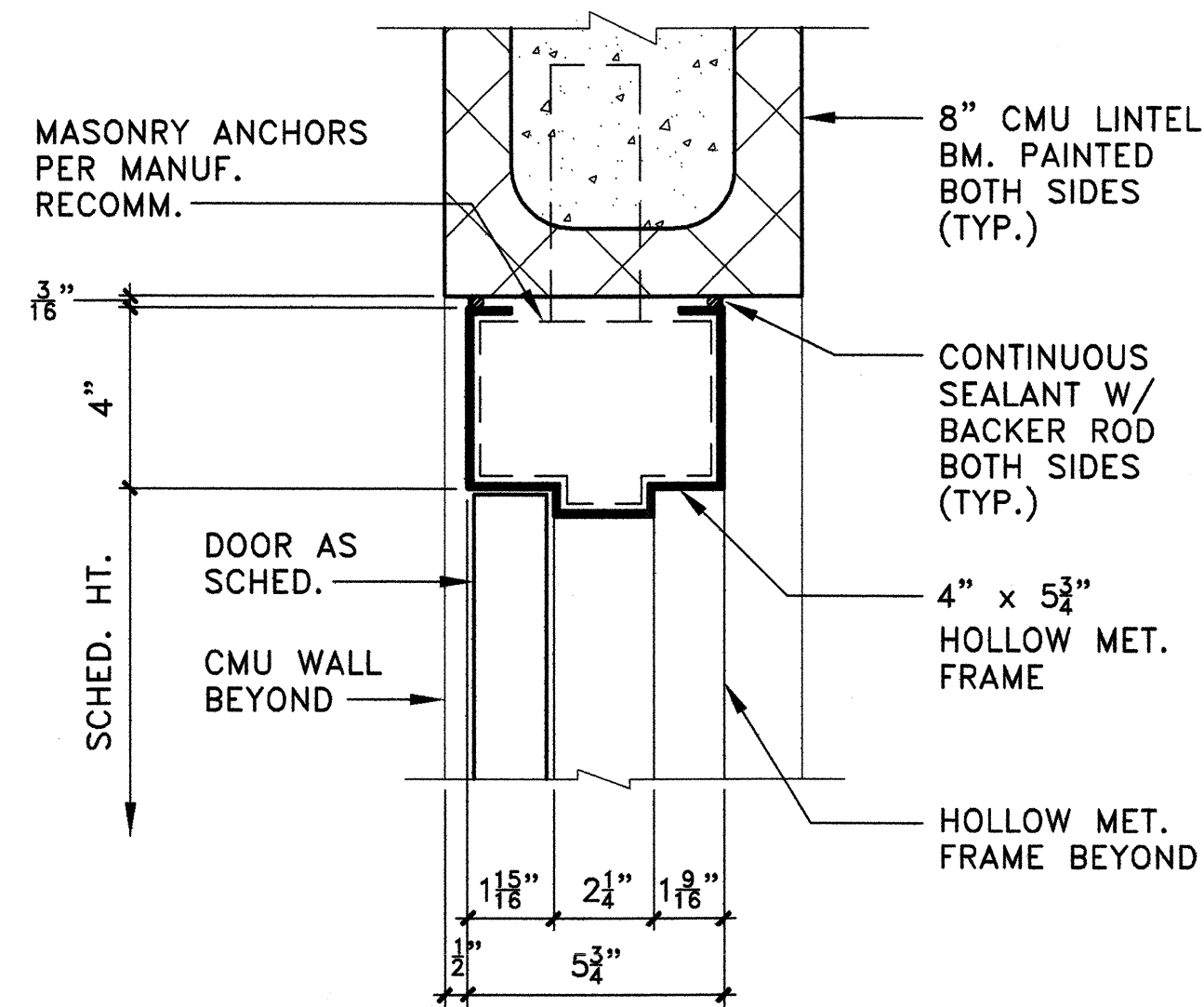
DOOR NUMBER	SIZE (WIDTH x HEIGHT)	DOOR TYPE	THICKNESS (NOTE 1)	CONSTRUCTION (NOTE 2)	FACING & FINISH (NOTE 3)	FRAME & FINISH (NOTE 4)	RATING (NOTE 5)	FRAME DETAILS			HARDWARE GROUP	REMARKS
								HEAD	JAMB	THRESHOLD		
D-1	3'-0" x 7'-0"	A	1-3/4"	HM	MP	MP	60	1A/S-19	1B/S-19	1C/S-19	SEE SPECS	1, 2
D-2	12'-0" x 12'-0"	C		OVERHEAD COILING METAL ROLL-UP DOOR				2A/S-19	2B/S-19	2C/S-19		--
D-3	10'-0" x 12'-0"	B		OVERHEAD COILING METAL ROLL-UP DOOR				2A/S-19	2B/S-19	2C/S-19		--

REMARKS - DOOR TYPE "A"

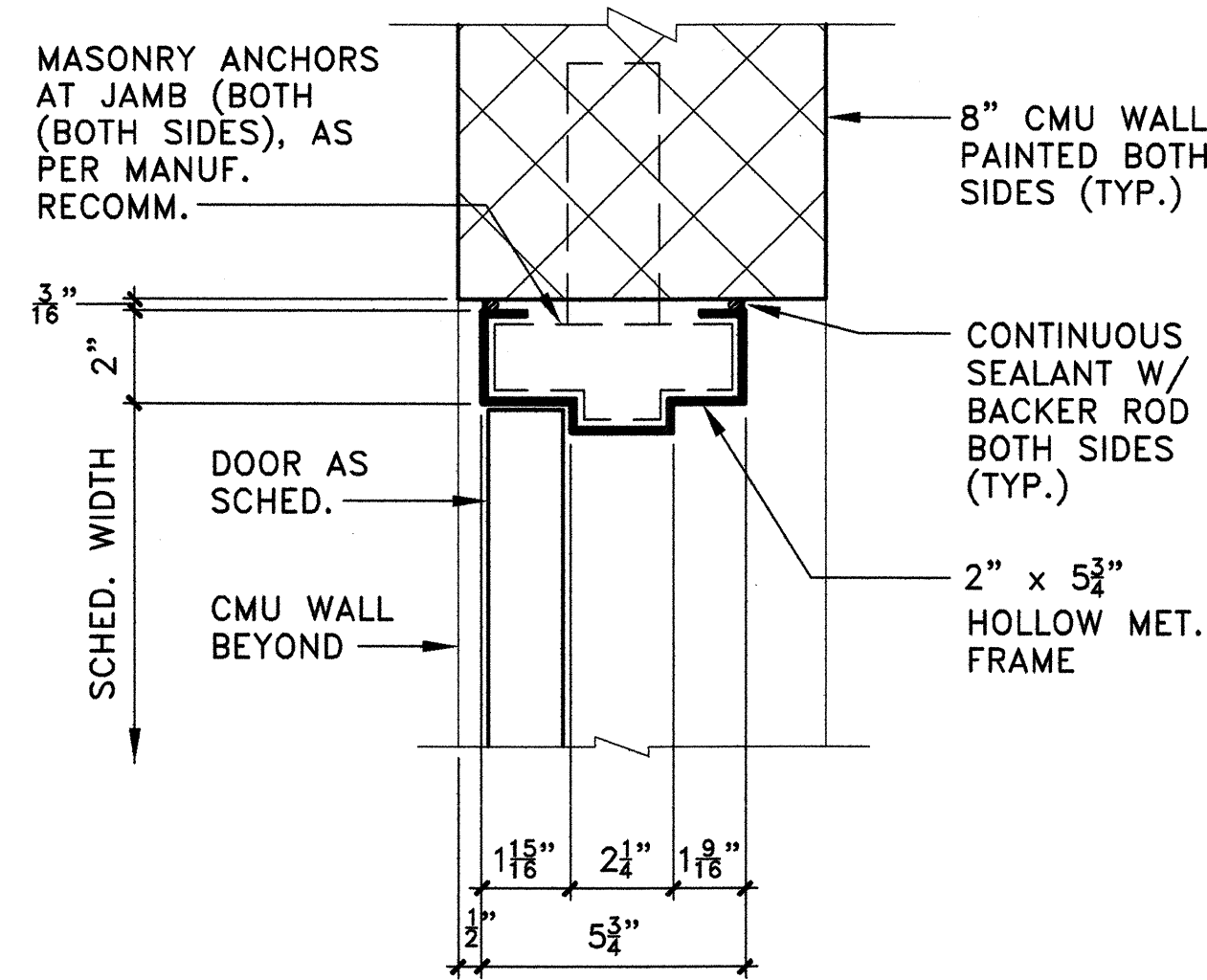
- DOOR CLOSURE.
- NO THRESHOLD.
- PER MANUFACTURER'S SPECIFICATION.

DOOR NOTES LIST

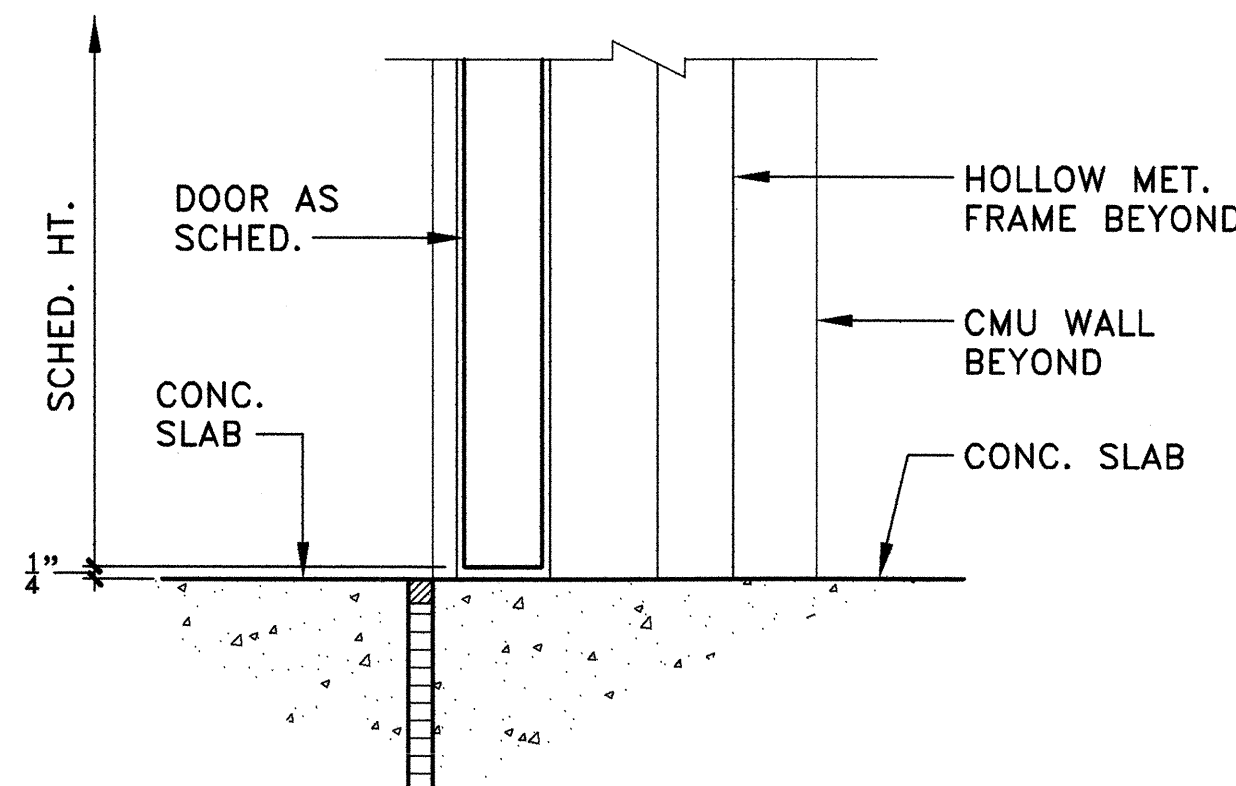
- ALL DOORS ARE 1-3/4" THICK UNLESS OTHERWISE NOTED.
- DOOR CONSTRUCTION:
HM - HOLLOW METAL
- FACING AND FINISH:
MP - METAL, PAINTED
- FRAME CONSTRUCTION AND FINISH:
MP - METAL, PAINTED
- RATING:
60 MIN INDICATES A 60 MINUTE LABELED FIRE DOOR



(A) HEAD



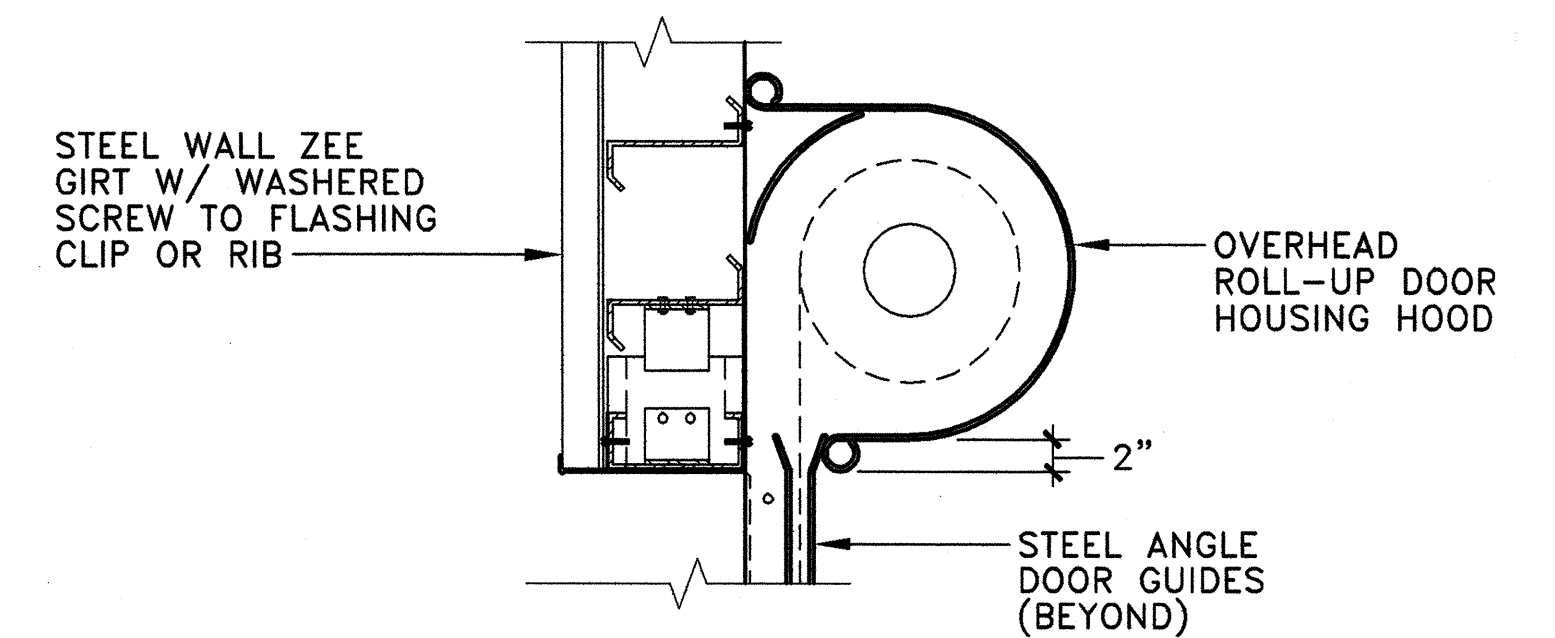
(B) JAMB



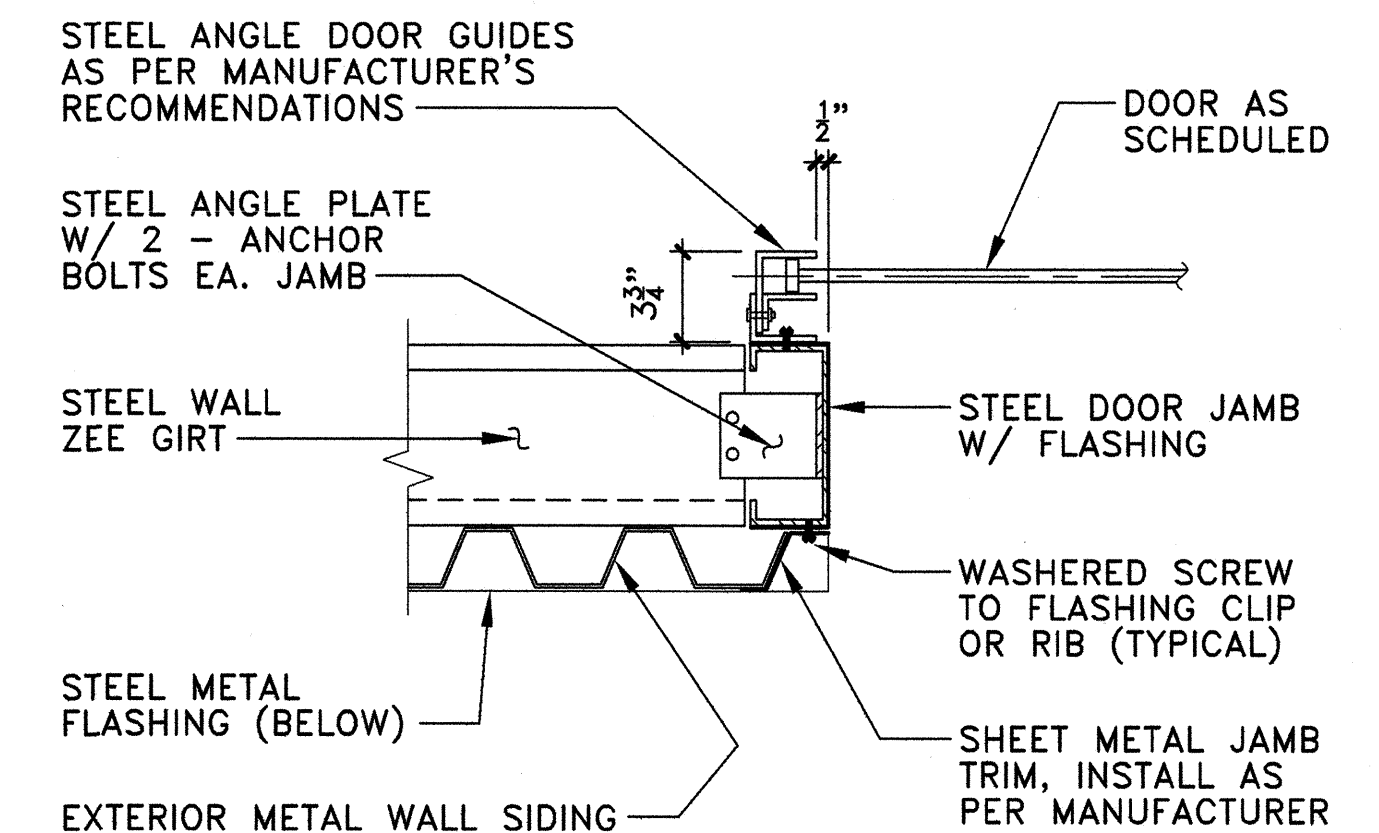
(C) THRESHOLD

1 HOLLOW METAL DOOR DETAILS

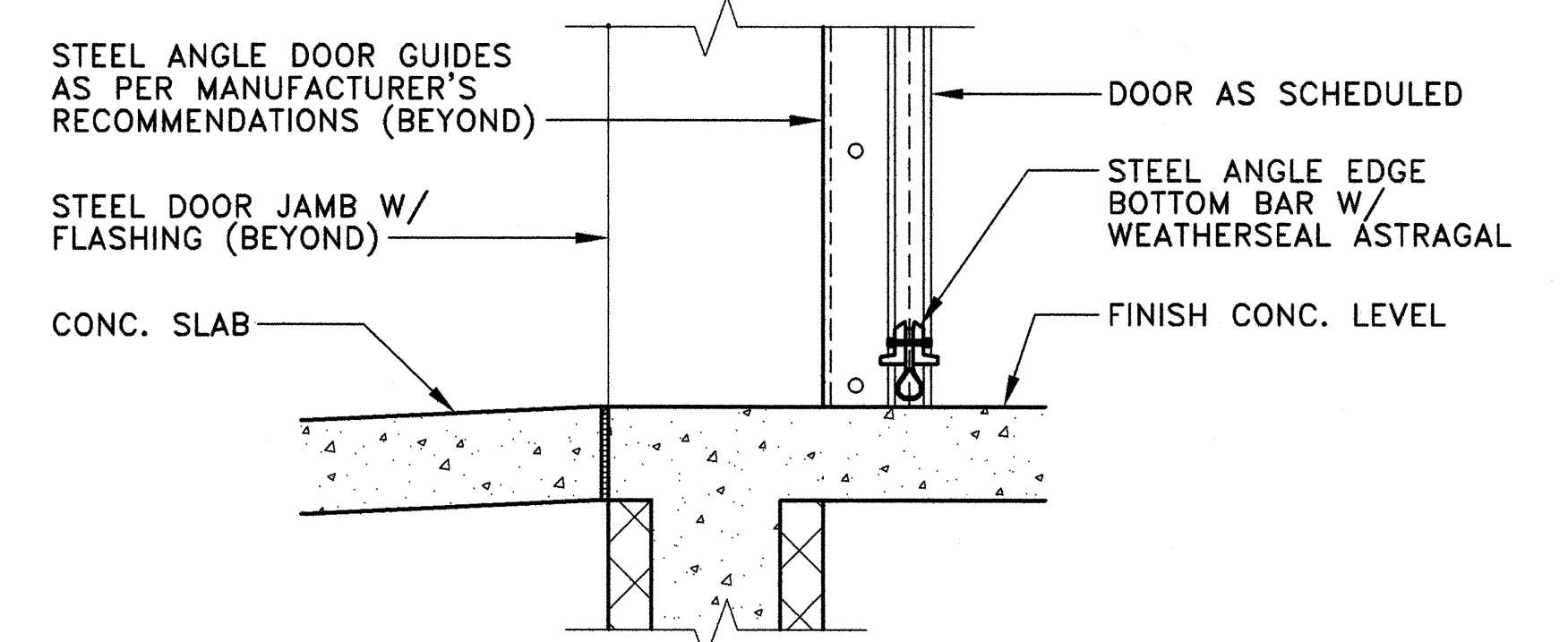
SCALE: 3" = 1'-0"



(A) HEADER DETAIL
SCALE: 1" = 1'-0"



CONDITION - STEEL FRAMING
(B) JAMB DETAIL
SCALE: 1 1/2" = 1'-0"

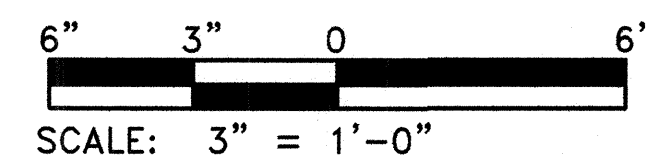
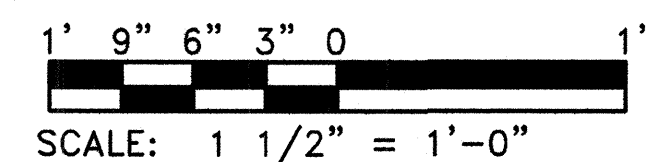
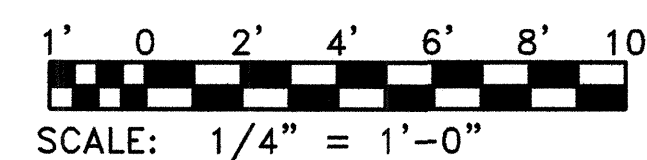


(C) THRESHOLD DETAIL
SCALE: 1 1/2" = 1'-0"

2 METAL ROLL-UP DOOR DETAILS

SCALE: AS SHOWN

GRAPHIC SCALE:



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
KAUAI BASEYARD IMPROVEMENTS LIHUE, KAUAI, HAWAII					
DOOR TYPES & SCHEDULE, DOOR DETAILS					
DESIGNED:	ATO	SUBMITTED:	AS SHOWN		
DRAWN:	RMA/LC	DATE:	03/07/2016		
CHECKED:	ATO	SCALE:	AS SHOWN		
APPROVED:	[Signature]		DATE:		DRAWING NO.
CHIEF ENGINEER		APR 26 2016		S-19	