

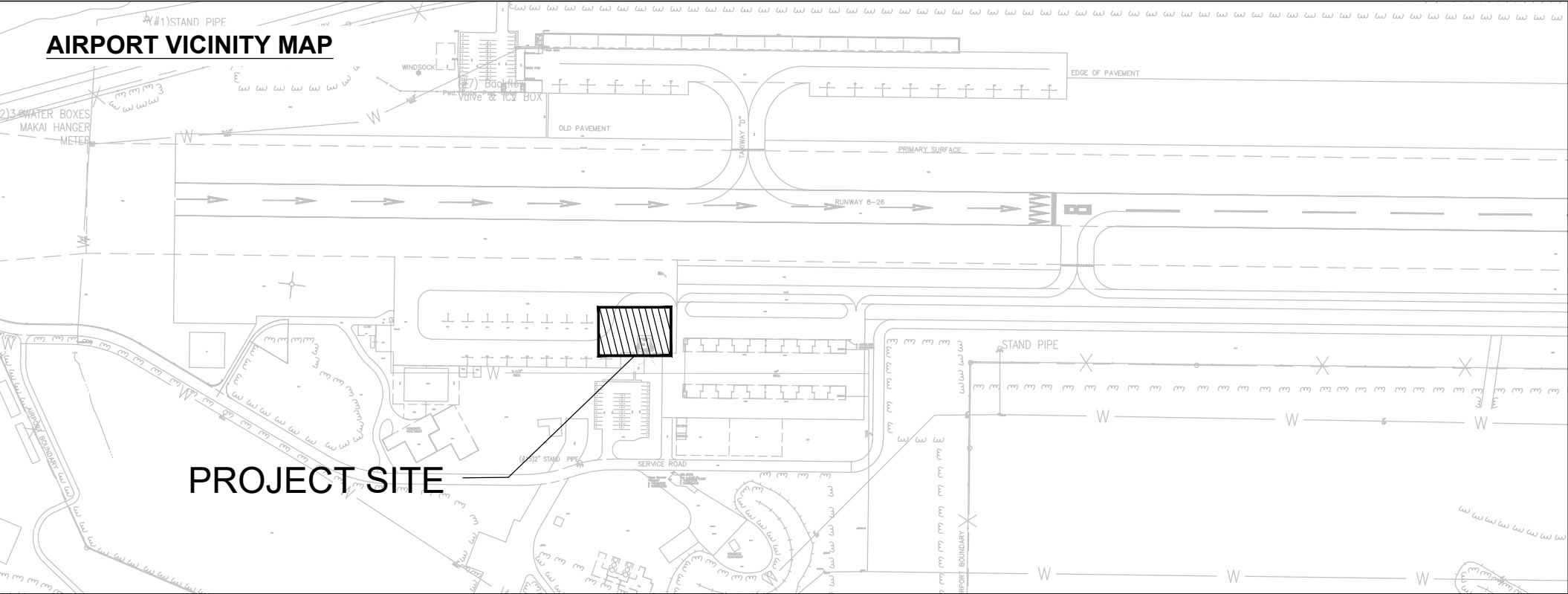
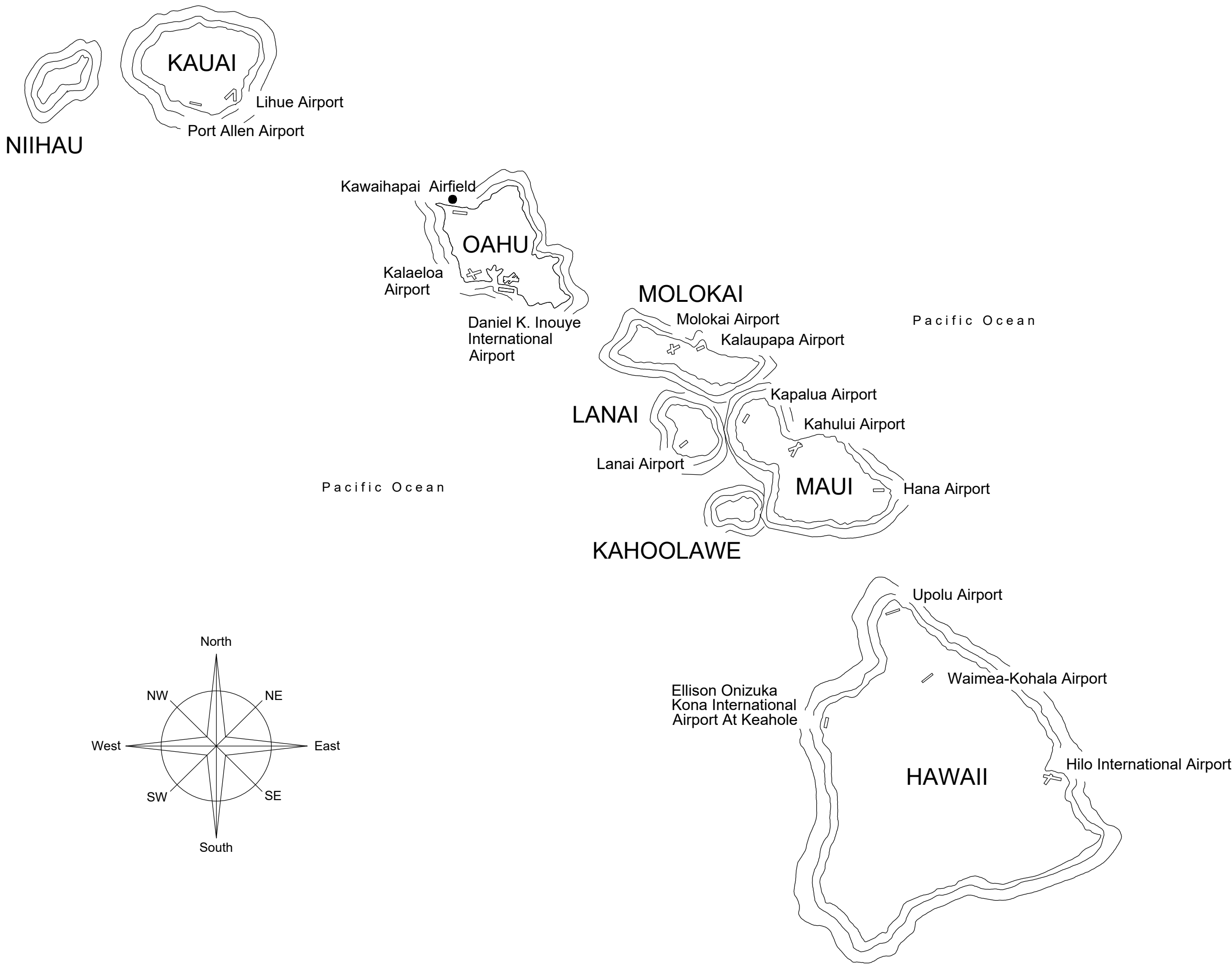
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS

PLANS FOR

UNICOM TOWER INSTALLATION

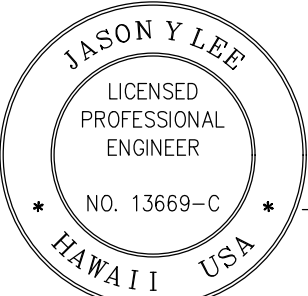
AT

KAWAIHAPAI AIRFIELD
MOKULEIA, OAHU, HAWAII
PROJECT NO. CO2541-33



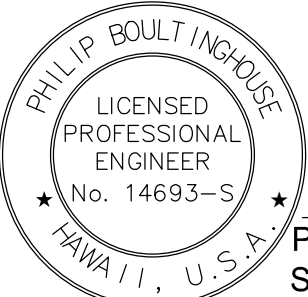
PROJECT TEAM

CIVIL:
OCEANIT
828 FORT STREET MALL,
SUITE 600
HONOLULU, HAWAII 96813
(808) 531-3017



Jason Y. Lee
JASON Y. LEE
CIVIL ENGINEER

STRUCTURAL:
COFFMAN ENGINEERS
745 FORT STREET MALL,
SUITE 400
HONOLULU, HAWAII 96813
(808) 687-8884

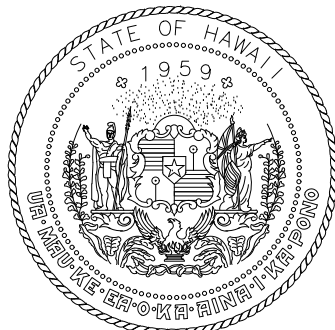


Philip Boultinghouse
PHILIP BOULTINGHOUSE
STRUCTURAL ENGINEER

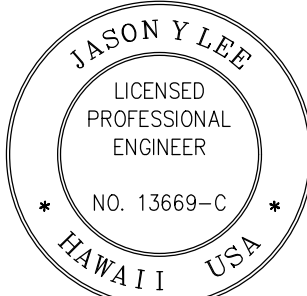
ELECTRICAL:
KRAIG K. OTANI &
ASSOCIATES, LLC
3036A LAKIMAU STREET
HONOLULU, HAWAII 96815
(808) 250-7346



Bryce H. Kanemura
BRYCE H. KANEMURA
ELECTRICAL ENGINEER



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS



THIS WORK WAS PREPARED BY ME OR UNDER MY
SUPERVISION AND CONSTRUCTION OF THIS
PROJECT WILL BE UNDER MY OBSERVATION.
Jason Y. Lee
4/30/2026
Expiration Date
of the License

DSGN.	DRWN.	CHKD.	APPD.
JL	AP	JL	JL

NO.	DATE	REVISIONS
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CONSTRUCTION
DOCUMENTS
MAY 2026
DATE

PROJECT TITLE :

UNICOM TOWER
INSTALLATION
AT
KAWAIHAPAI AIRFIELD
MOKULEIA, OAHU, HAWAII

PROJECT NO.:

CO2541-33

SHEET TITLE:

TITLE SHEET

DATE :	DWG. NO.
MAY 7, 2026	G-001
SHEET :	
1 OF 14 SHEETS	

DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

APPROVED:

Signature

05/18/2026

for DIRECTOR OF TRANSPORTATION

DATE

GENERAL NOTES:

1.
- CONSTRUCTION SHALL COMPLY WITH THE STATE OF HAWAII BUILDING CODE, WHICH ADOPTS THE 2021 INTERNATIONAL BUILDING CODE, WITH LOCAL AMENDMENTS.
2.
- CONSTRUCTION DOCUMENTS DESCRIBE THE INTENT OF THE QUALITY AND SCOPE OF THE CONSTRUCTION FOR THE PROJECT. WHERE DETAILS ARE NOT SHOWN, THE CONTRACTOR SHALL PROCEED FOLLOWING THE ACCEPTED QUALITY STANDARDS AND PROCEDURES OF THE CONSTRUCTION INDUSTRY IN THE STATE OF HAWAII FOLLOWING THE GENERAL INTENT OF THE CONSTRUCTION DOCUMENTS.

DIMENSIONS

1.
- DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALE.
2.
- DIMENSIONS SHALL BE FIELD VERIFIED BEFORE PROCEEDING WITH THE WORK.

DEFINITIONS

1.
- ALL MATERIALS, ITEMS, WORK, NOTED IN THE DRAWINGS SHALL BE "NEW", UNLESS INDICATED AS EXISTING.
2.
- (E) MEANS "EXISTING". CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS AND CONFIRM SIZES.
3.
- "PROVIDE" SHALL MEAN FURNISH AND INSTALL NEW ITEM(S) AS DETAILED NOTED IN THE CONTRACT DOCUMENTS.
4.
- "REMOVE" MEANS TO REMOVE AND DISPOSE INDICATED ITEMS, INCLUDING ASSOCIATED EXTRANEOUS FASTENERS, PIPES, CONDUITS, JUNCTION BOXES, ETC. AND REPAIR/REPLACE/PATCH DAMAGES, SPALLS, CRACKS, HOLES, ETC.
5.
- "REPLACE" MEANS TO REMOVE EXISTING AND TO FURNISH AND INSTALL, "NEW" ITEM(S) TO MATCH THE EXISTING DESIGN, SUCH AS MATERIALS, THICKNESS, COLOR, QUALITY, CONSTRUCTION, ETC., UNLESS OTHERWISE DETAIL OR NOTED. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION AND DESIGN PRIOR TO REMOVAL.

CONSTRUCTION NOTES:

1.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DOCUMENT EXISTING CONDITIONS WITHIN THE PROJECT LIMITS BEFORE START OF PROJECT. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR DAMAGES WITHIN THE PROJECT LIMITS UNLESS DOCUMENTED AS EXISTING.
2.
- THE DEMOLITION PLAN REPRESENTS ONLY GENERAL DEMOLITION. ALL ITEMS TO BE REMOVED, TEMPORARILY REMOVED AND REINSTALLED, ETC. ARE NOT NECESSARILY SHOWN. CONTRACTOR SHALL PERFORM ALL REQUIRED DEMOLITION, TEMPORARY REMOVAL AND REPLACEMENT, CUTTING PATCHING, ETC., AS REQUIRED TO PROVIDE COMPLETE CONSTRUCTION. VERIFY AND COMPARE ALL DRAWINGS (ALL DISCIPLINES) FOR THE COMPLETE SCOPE OF WORK.
3.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO BEGINNING ANY WORK AND SHALL NOTIFY THE STATE OF ANY DISCREPANCY AND/OR CONDITION WHICH WILL PREVENT HIM/HER FROM FULFILLING THE TERMS OF THE CONTRACT. WHERE EXISTING CONDITIONS REQUIRE DETAILS AND/OR SPECIFICATIONS TO VARY FROM THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STATE IN WRITING AND PROPOSE ALTERNATE METHODS AND MATERIALS FOR CONSIDERATION. ALL EXISTING ITEMS AND/OR FINISHES SCHEDULED TO REMAIN, BUT DAMAGED DURING CONSTRUCTION, AND OVERPAINTED EXISTING MATERIALS, SHALL BE CORRECTED TO MATCH THE EXISTING MATERIAL AND FINISHES AT NO EXTRA COST TO THE STATE.
4.
- QUANTITIES SHOWN AND/OR SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS SHALL BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR ALL QUANTITIES.
5.
- GENERAL CONTRACTOR SHALL REVIEW ALL SUBMITTALS AND COORDINATE THE WORK OF THE VARIOUS TRADES TO FIT ACTUAL CONDITIONS AND MAKE INTERFACING ADJUSTMENTS AS REQUIRED.
6.
- THE CONTRACTOR SHALL PROTECT ALL ITEMS, IN AND ABOVE GROUND WITHIN THE PROJECT SITE FROM DAMAGE. DAMAGE TO BUILDINGS, SIDEWALLS, UTILITY LINES, LANDSCAPING, LAWN, HOSEBIBS, ETC., CAUSED BY THE CONTRACTOR, SHALL BE REPLACED AND/OR REPAIRED AT NO COST TO THE STATE.
7.
- CONTRACTOR SHALL PATCH ALL SURFACES EXPOSED FROM CUTTING, AND OR REMOVAL WORK. PATCH SHALL MATCH THE MATERIAL AND FINISH OF ADJACENT SURFACES.
8.
- ALL WASTE MATERIALS SHALL BE PROMPTLY REMOVED AND PROPERLY DISPOSED OF OUTSIDE THE LIMITS OF THE PROPERTY DAILY. AT THE END OF CONSTRUCTION, ALL ITEMS AND EQUIPMENT TEMPORARILY REMOVED DURING CONSTRUCTION SHALL BE REINSTALLED AS INDICATED, OR IN A LOCATION APPROVED BY THE STATE.
9.
- PAINT ALL NEWLY INSTALLED ITEMS TO MATCH EXISTING ADJACENT SURFACES, EXCEPT DO NOT PERMIT PREFINISHED ITEMS.
10.
- THE APRON WILL BE OCCUPIED DURING CONSTRUCTION. CONSTRUCTION SHALL NOT DETRIMENTALLY AFFECT THE ONGOING OPERATIONS AND USE OF THE APRON. THE CONTRACTOR SHALL CLOSELY COORDINATE ALL WORK WITH THE ENGINEER. THE STATE HAS THE FINAL DETERMINATION REGARDING DETRIMENTAL IMPACT OF THE FACILITY AND ITS OPERATION.
11.
- WHERE WARRANTIES ARE SPECIFIED, CONTRACTOR'S BID SHALL INCLUDE FULL COMPLIANCE OF ALL CONDITIONS REQUIRED BY THE WARRANTIES. WHERE THE MANUFACTURER'S WARRANTY REQUIREMENTS AND/OR RECOMMENDATIONS VARY FROM THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR IS EXPECTED TO COMPLY WITH THE STRICTER OF THE TWO PROVIDING REQUIREMENTS DO NOT VOID WARRANTY.
12.
- CONTRACTOR SHALL INFORM THE STATE IN WRITING, PROVIDE SHOP DRAWINGS, AND AS-BUILT DRAWINGS WHERE PROPOSED CONSTRUCTION WILL DEVIATE FROM THE CONSTRUCTION DOCUMENTS.
13.
- IF STAGING IS NEEDED, CONTRACTOR TO COORDINATE WITH ENGINEER FOR FINAL STAGING SITE LOCATION.
14.
- CONTRACTOR'S PRIME REPRESENTATIVE SHALL BE PRESENT ON SITE AT ALL TIMES.
15.
- CONTRACTOR TO THOROUGHLY SWEEP AND REMOVE ALL F.O.D. FROM ENTIRE WORK SITE AT CONCLUSION OF ALL WORK.

FIRE CODE / FIRE SAFETY NOTES:

1.
- FIRE SAFETY DURING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL COMPLY WITH THE FIRE CODE (NFPA 1 2018) WITH APPLICABLE COUNTY AMENDMENTS.

ELECTRICAL NOTES:

1.
- PLANS DO NOT INDICATE COMPLETE EXISTING ELECTRICAL CONDITIONS. CONTRACTOR SHALL VISIT JOBSITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND EXTENT OF DEMOLITION AND NEW WORK PRIOR TO THE START OF WORK.
2.
- PRIOR TO THE START OF WORK, CONTRACTOR SHALL VISIT JOBSITE AND REPORT ANY DISCREPANCIES AND/OR DIFFERENCES IN DRAWINGS, IN RESPECT TO EXISTING CONDITION, TO THE ENGINEER.
3.
- CONTRACTOR SHALL RESOLVE ALL DISCREPANCIES AND QUESTIONS PRIOR TO THE START OF WORK. NO EXTRA PAYMENT SHALL BE ALLOWED ON ACCOUNT OF WORK MADE NECESSARY BY CONTRACOTR'S FAILURE TO VISIT THE SITE AND/OR FAILURE TO RESOLVE DISCREPANCIES AND QUESTIONS.
4.
- CONTRACTOR SHALL INVESTIGATE EACH AIRFIELD LIGHTING MANHOLE AFFECTED BY THE WORK AND PROVIDE DETAILED SCHEMATICS AND MANHOLE BUTTERFLY DIAGRAMS WITH PICTURES PRIOR TO DEMOLITION AND NEW WORK.

SPECIAL NOTES:

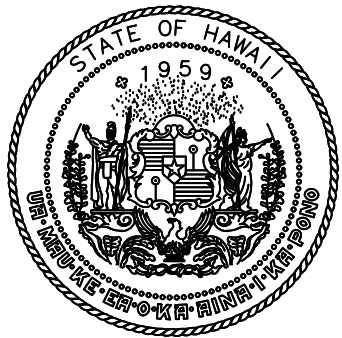
1.
- THE CONTRACTOR SHALL MAINTAIN AVIATION SAFETY IN THE AIR OPERATIONS AREA (AOA) AT ALL TIMES DURING CONSTRUCTION ACTIVITY BY COMPLYING WITH FAA ADVISORY CIRCULAR 150/5370-2 (CURRENT EDITION), OPERATION SAFETY ON AIRPORTS DURING CONSTRUCTION.
2.
- IN ORDER TO MINIMIZE DISRUPTION TO AIRPORT OPERATIONS, ALL TRENCHING AND WORK INVOLVING HEAVY EQUIPMENT ON THE AIRFIELD SHALL BE PERFORMED DURING OFF-PEAK HOURS AT NIGHT. CONSTRUCTION OPERATIONS SHALL BE SCHEDULES SUCH THAT TAKEOFFS AND LANDINGS HAVE PRIORITY OVER CONSTRUCTION ACTIVITY. NO CONSTRUCTION SHALL BE PERFORMED WITHIN THE RUNWAY SAFETY AREA UNLESS THE RUNWAY IS CLOSED. REQUESTS FOR RUNWAY CLOSURES SHALL BE SUBMITTED AT LEAST TWO WEEKS IN ADVANCE TO ENSURE THAT PROPER "NOTICE TO AIRMEN" (NOTAM) CAN BE ISSUED. SCHEDULING OF CONSTRUCTION ACTIVITIES SHALL BE AGREED UPON IN DETAIL WITH THE AIRPORT MANAGER (OR HIS AUTHORIZED REPRESENTATIVE). CONSTRUCTION MANAGER AND FAA TOWER PERSONNEL. AT ANY TIME DURING CONSTRUCTION. THE CONTRACTOR MAY BE DIRECTED BY AIRPORT OPERATIONS TO PUSH BACK START TIMES, MOVE UP END TIMES, INTERRUPT WORK TEMPORARILY, OR CANCEL WORK ENTIRELY DURING EMERGENCY CONDITIONS AND OTHER UNFORESEEN EVENTS.
3.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SERVICES OF EFFICIENT, QUALIFIED PERSONNEL EQUIPPED W/ 2-WAY RADIO EQUIPMENT FOR CONTINUOUS MONITORING AND COMMUNICATIONS WITH AIRPORT OPERATIONS. ALL PERSONNEL SHALL ATTEND AN AOA DRIVER TRAINING CLASS TO BECOME FAMILIAR WITH AIRFIELD SIGNS AND MARKINGS AND BE ABLE TO COMMUNICATE WITH AIRPORT OPERATIONS.
4.
- REFER TO THE SPECIFICATIONS, SECTION 8.21 OF THE SPECIAL PROVISIONS FOR VEHICLE/PERSONNEL REQUIREMENTS IN RESTRICTED AIR OPERATIONS AND MOVEMENT AREAS.
5.
- ANY DAMAGES TO EXIST CABLES AND/OR UTILITY LINES, WHETHER OR NOT SHOWN, SHALL BE REPAIRED AT NO COST TO THE STATE.
6.
- AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL REMOVE ALL EXCAVATED MATERIALS FROM THE RUNWAY AND TAXIWAY AREAS. UNLESS REQUIRED FOR SAFETY, THE CONTRACTOR SHALL CLEAN AND REMOVE ALL DEBRIS, UNINSTALLED MATERIALS, BARRICADES, ENCLOSURES AND OTHER OBSTACLES TO NORMAL OPERATIONS.
7.
- USE OF STEEL PLATES TO COVER OPEN TRENCHES SHALL NOT BE ALLOWED. CONTRACTOR SHALL FILL AND COMPACT ALL TRENCHES AT THE END OF EACH WORK DAY.

LOCATION OF UNDERGROUND UTILITIES:

1.
- THE LOCATIONS OF UNDERGROUND UTILITIES, CABLES, DUCTS, CONDUITS, ETC. AS INDICATED ON PLANS HAVE BEEN OBTAINED FROM EXISTING RECORDS AND ARE APPROXIMATE. NEITHER THE AIRPORT NOR THE ARCHITECT/ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION SHOWN. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIALS OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF HIS OPERATION PLANS, IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE.
2.
- THE CONTRACTOR SHALL USE HAND EXCAVATION TO PROVIDE INVESTIGATIVE PITS TO IDENTIFY LOCATION OF EXISTING UTILITIES PRIOR TO ANY OTHER EXCAVATION ACTIVITIES.
3.
- THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING IN AREAS OF EXISTING UTILITIES. EXISTING UTILITIES SHALL BE LOCATED AND MARKED IN ADVANCE OF EXCAVATION IN ALL AREAS. ANY DAMAGE DONE TO KNOWN UTILITIES SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT HIS EXPENSE. THE LOCATION OF ANY UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY, AND DEPTHS MAY NOT BE KNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING AND/OR REPAIRING ALL DAMAGE TO KNOW UTILITIES AND AIRPORT PROPERTY.
4.
- DISTURBED AREAS OUTSIDE OF PAVEMENT AREAS SHALL BE RESTORED TO ORIGINAL SURFACE ELEVATIONS, RAKED SMOOTH AND HYDRO-SEEDED.

AOA TRAFFIC CONTROL NOTES:

1.
- THE CONTRACTOR SHALL FURNISH ALL ESCORTS, FLAG PEOPLE, AND COMMUNICATION DEVICES SPECIFIED IN THE TECHNICAL PROVISION SECTION 01800; AS WELL AS, ALL AOA TRAFFIC CONTROL DEVICES SPECIFIED IN THE TECHNICAL PROVISION SECTION 01800 - SPECIAL REQUIREMENTS FOR CONTRACTORS IN THE AOA..
2.
- THE CONTRACTOR'S ESCORTS SHALL CONTINUOUSLY MONITOR RADIO FREQUENCY, INDICATED IN THE TECHNICAL PROVISION SECTION 01800 - SPECIAL REQUIREMENT FOR CONTRACTORS ON THE AOA, FOR ALL POTENTIAL AIRCRAFT ACTIVITY THAT IS UNFORESEEN.
3.
- BEFORE STARTING ANY WORK AT EACH WORKDAY, THE CONTRACTOR SHALL SET UP ALL AOA TRAFFIC CONTROL DEVICES IN THE ORDER REQUIRED BY THE CONTRACT. AT THE END OF EACH WORKDAY, THE CONTRACTOR SHALL TAKE DOWN ALL AOA TRAFFIC CONTROL DEVICES IN THE REVERSE ORDER.
4.
- THE CONTRACTOR SHALL NOT TAKE DOWN ANY AOA TRAFFIC CONTROL DEVICES UNTIL WORK IS COMPLETED ON THE AOA.
5.
- THE CONTRACTOR SHALL NOT LEAVE THE AOA UNTIL ALL AOA TRAFFIC CONTROL DEVICES HAVE BEEN TAKEN DOWN.
6.
- THE CONTRACTOR SHALL NOT LEAVE THE AIRPORT UNTIL ALL STAGING AREAS ARE CLEARED ACCORDING TO TECHNICAL PROVISION SECTION 01700 - MOBILIZATION AND DEMOBILIZATION.
7.
- CONTRACTOR TO SUBMIT TRAFFIC CONTROL PLAN AND ANY OUTAGE REQUESTS TO ENGINEER PRIOR TO CONSTRUCTION.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS

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Signature

4/30/2028
Expiration Date
of the License

DSGN.	DRWN.	CHKD.	APPD.
JL	AP	JL	JL

NO.	DATE	REVISIONS
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CONSTRUCTION
DOCUMENTS

MAY 2026
DATE

PROJECT TITLE :

UNICOM TOWER
INSTALLATION

AT
KAWAIHAPAI AIRFIELD
MOKULEIA, OAHU, HAWAII

PROJECT NO.:

CO2541-33

SHEET TITLE:

SHEET INDEX
AND
NOTES

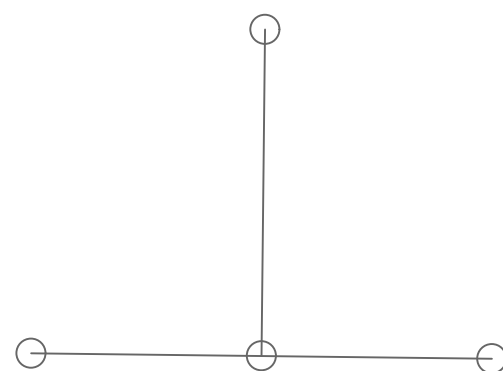
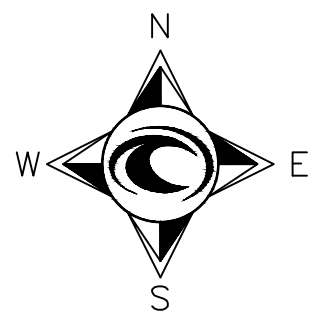
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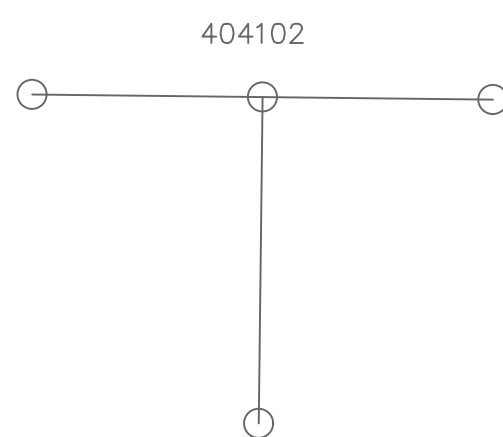
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G-002

SHEET INDEX		
DRAWING NUMBER	SHEET	DESCRIPTION OF DRAWINGS
CIVIL DRAWINGS		
G-001	1	TITLE SHEET
G-002	2	SHEET INDEX AND NOTES
C-001	3	EXISTING CONDITIONS PLAN
C-002	4	DEMOLITION PLAN
C-003	5	BEST MANAGEMENT PRACTICES PLAN
C-004	6	BEST MANAGEMENT PRACTICES NOTES
C-101	7	SITE PLAN
C-102	8	DETAILS
STRUCTIURAL DRAWINGS		
S-001	9	GENERAL NOTES, FOUNDATION PLAN AND DETAILS
S-101	10	FOUNDATION PLAN
S-301	11	WALL SECTIONS
ELECTRICAL DRAWINGS		
E-1	12	ELECTRICAL SYMBOLS, GENERAL NOTES
E-2	13	ELECTRICAL DEMOLITION PLAN
E-3	14	ELECTRICAL PLAN

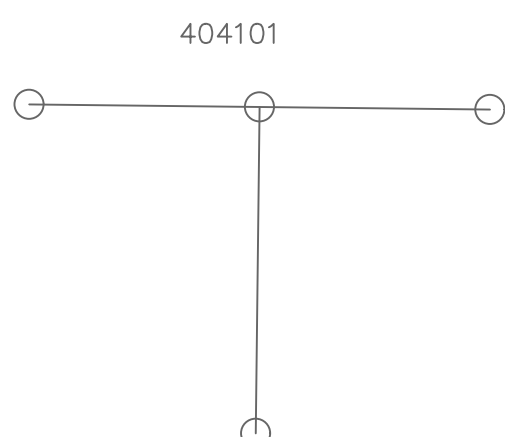
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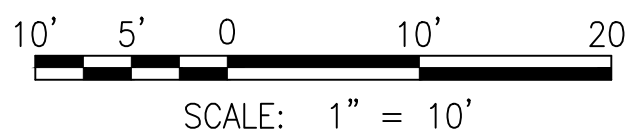
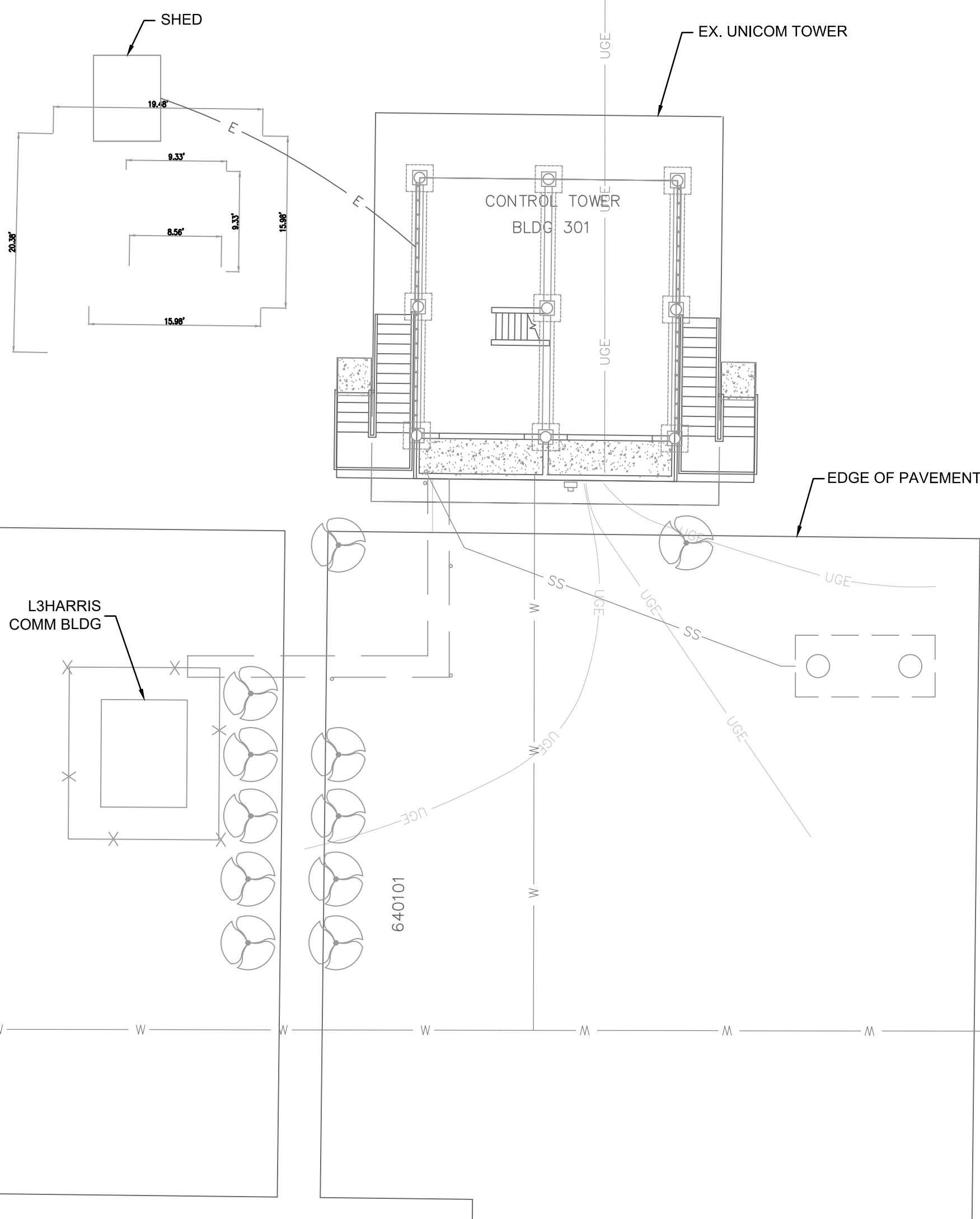
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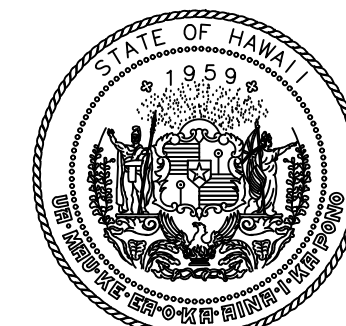
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404101



EXISTING CONDITIONS PLAN
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JL	AP	JL	JL

NO.	DATE	REVISIONS
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**CONSTRUCTION
DOCUMENTS**
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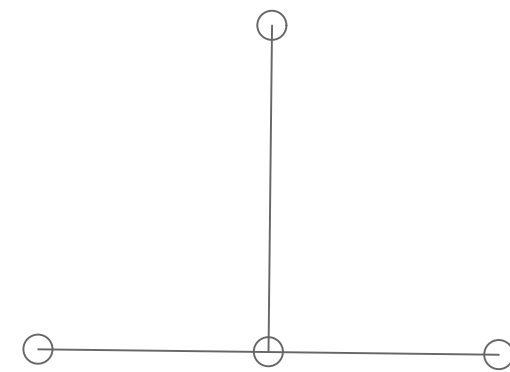
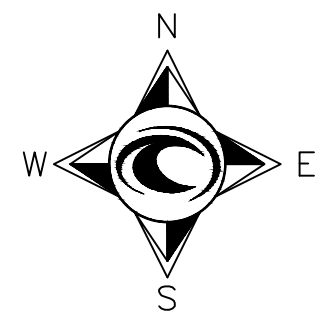
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CONDITIONS
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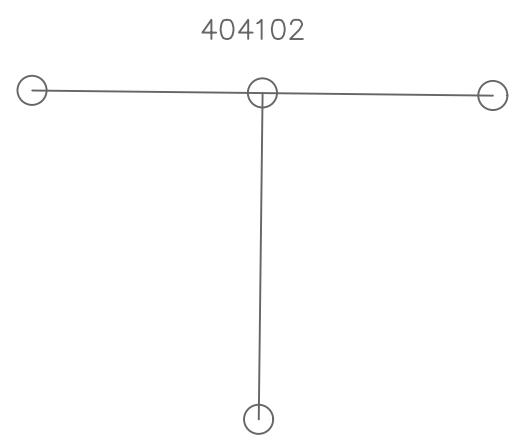
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DWG. NO.
C-001

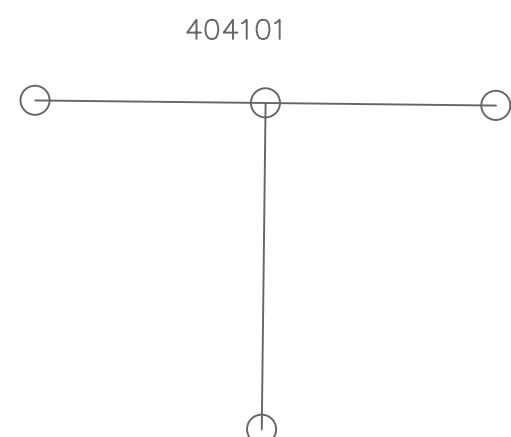
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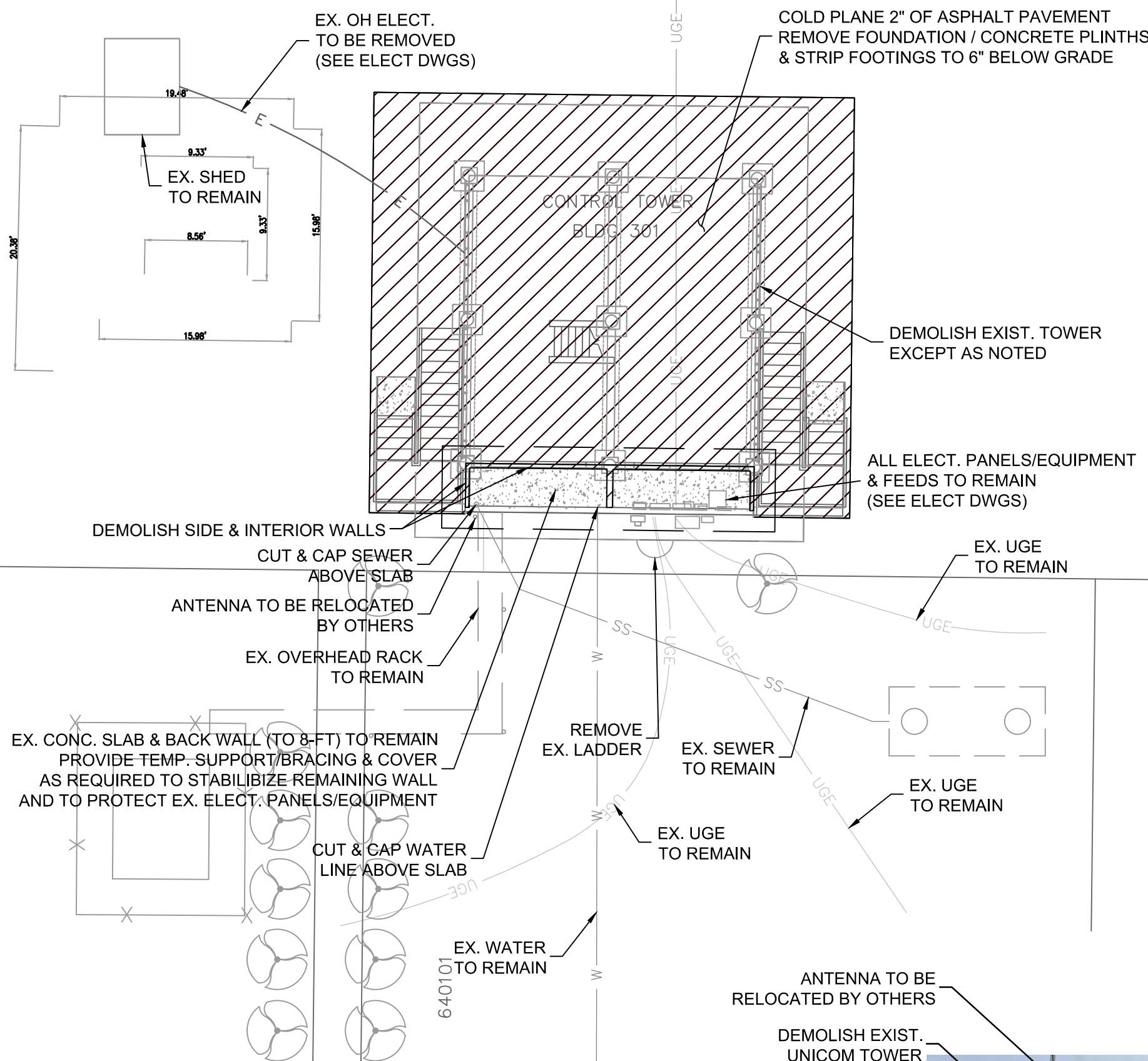
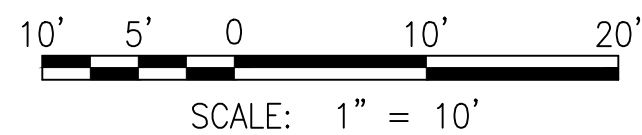
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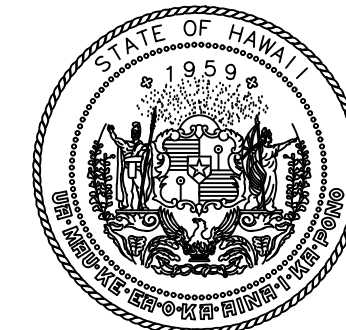
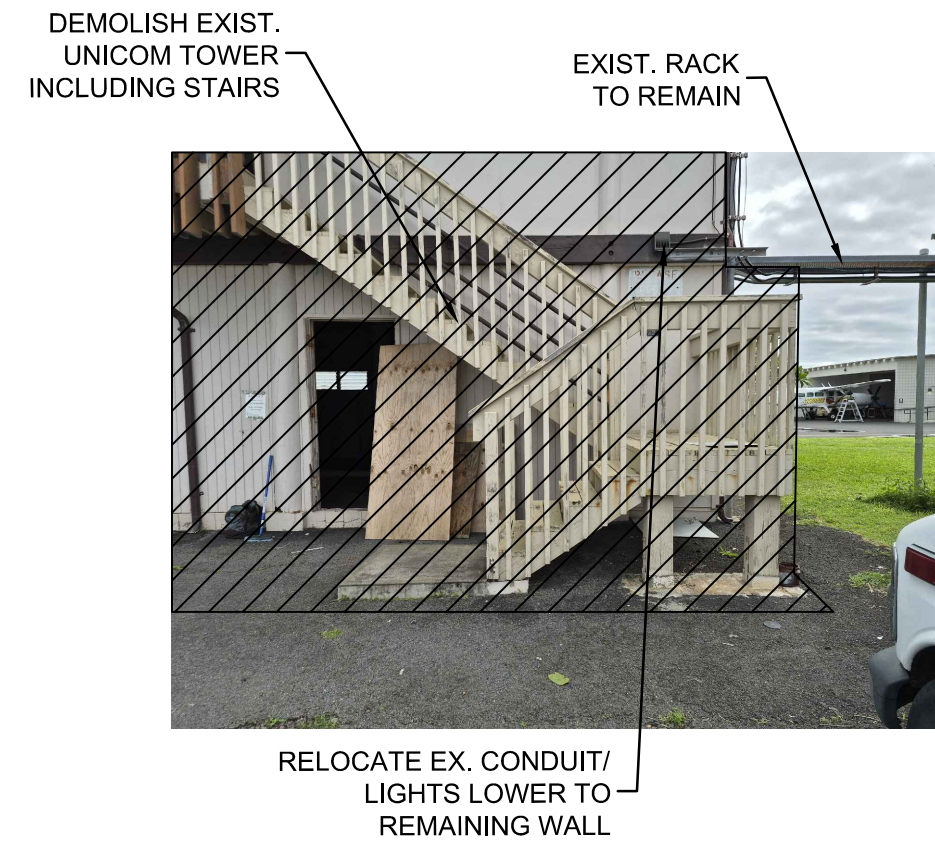
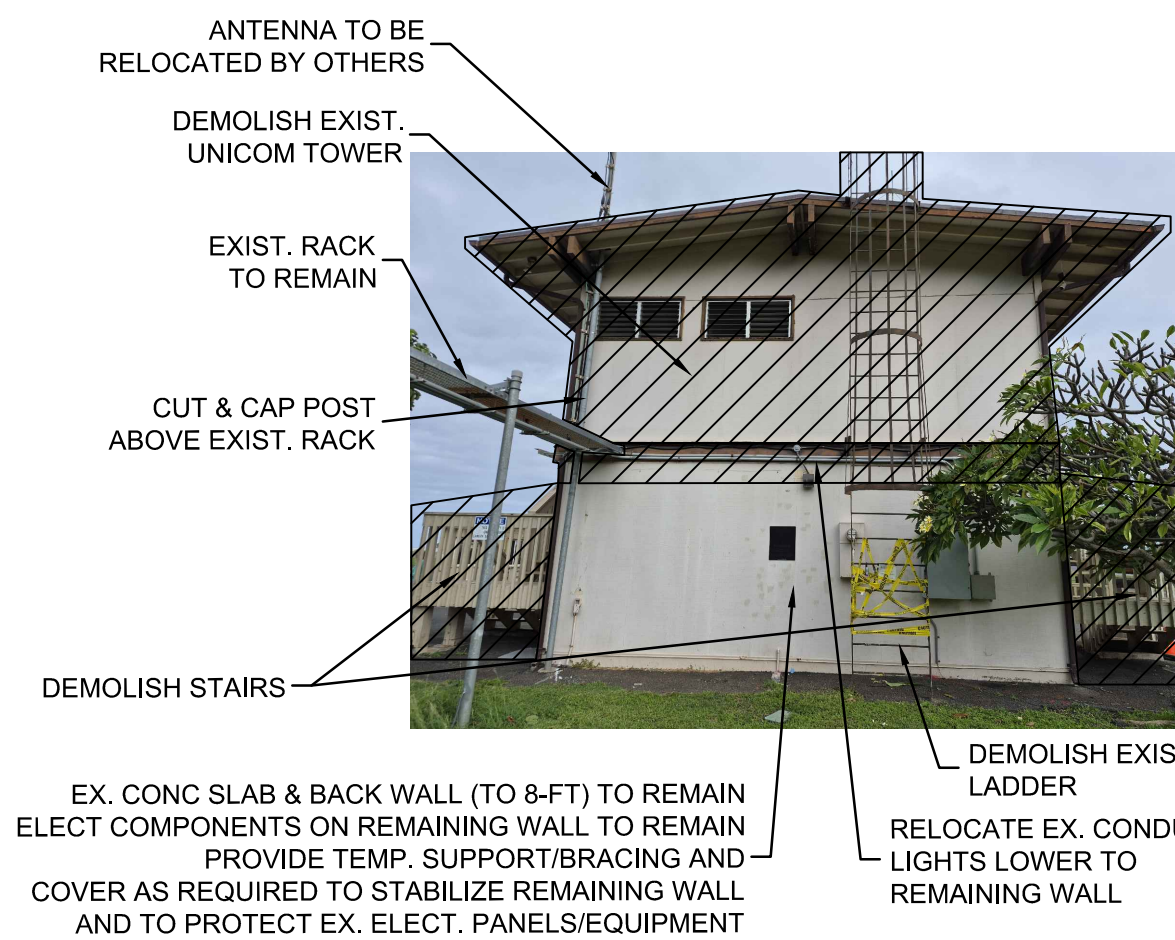
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404101



DEMOLITION PLAN
SCALE: 1"=10'



STATE OF HAWAII
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AIRPORTS

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JL	AP	JL	JL

NO.	DATE	REVISIONS
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**CONSTRUCTION
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MAY 2026
DATE

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AT
KAWAIHAPAI AIRFIELD
MOKULEIA, OAHU, HAWAII

PROJECT NO.:

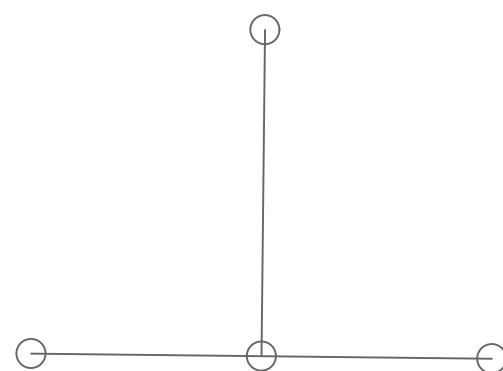
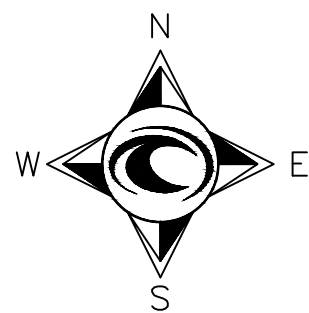
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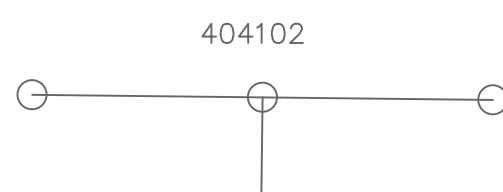
**DEMOLITION
PLAN**

DATE :	DWG. NO.
MAY 7, 2026	C-002
SHEET :	
4 OF 14 SHEETS	

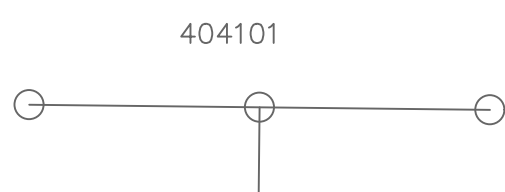
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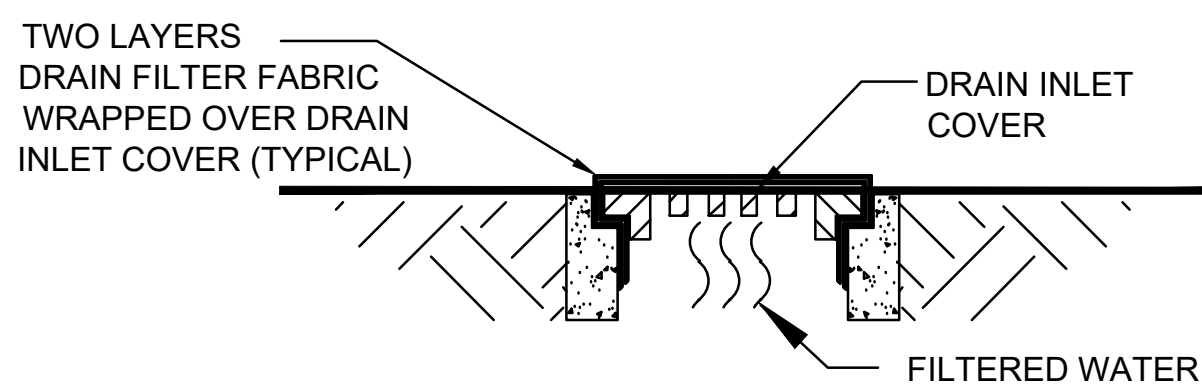
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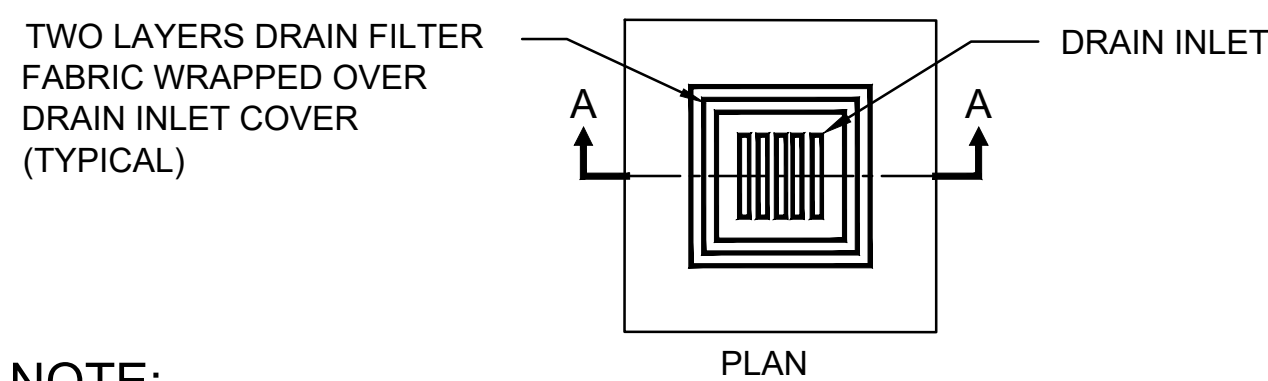
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SECTION A-A

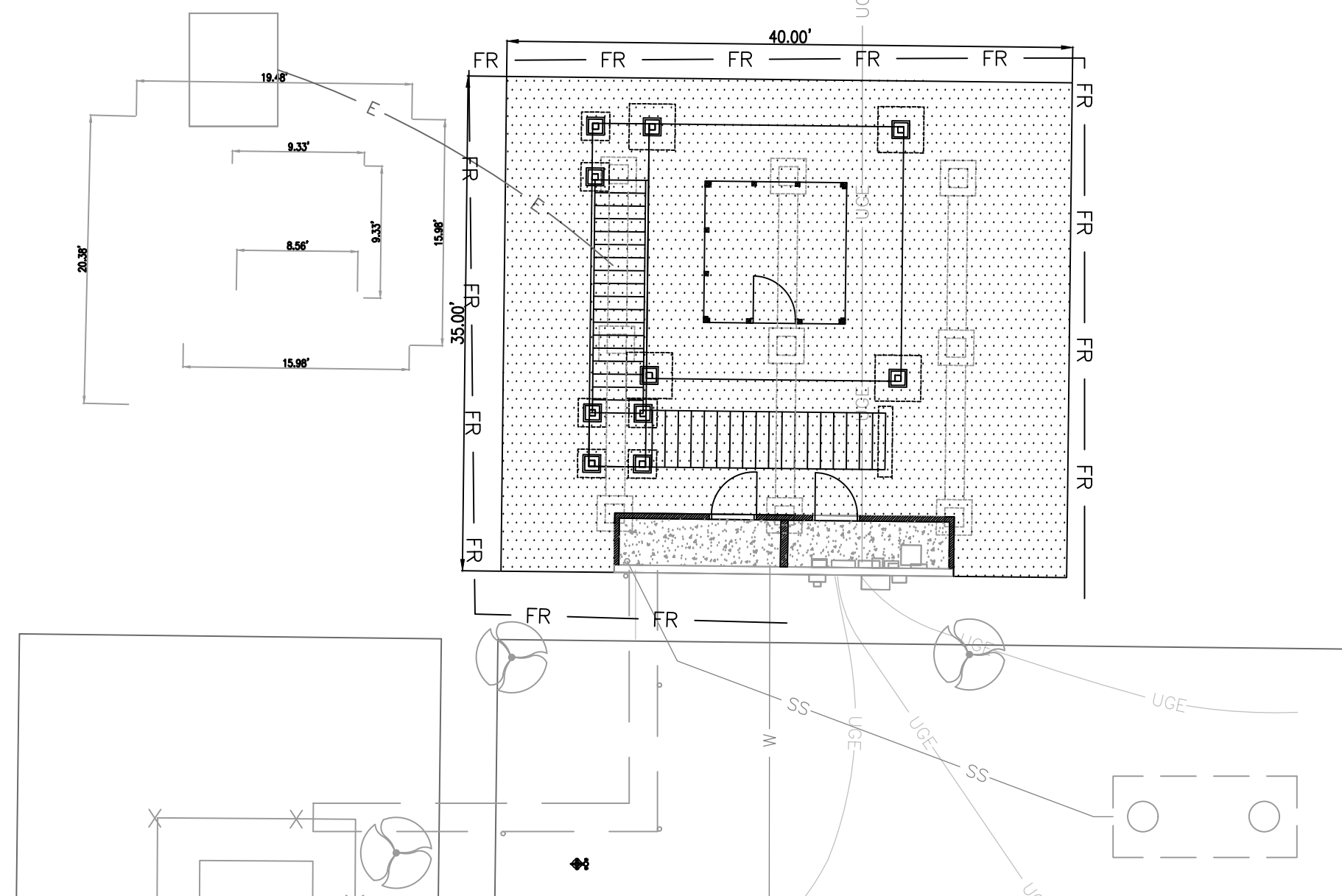


PLAN

NOTE:
WHERE MULTIPLE INLET GRATES OCCUR, INSTALL ONE
FILTER SOCK AROUND BOTH INLETS.

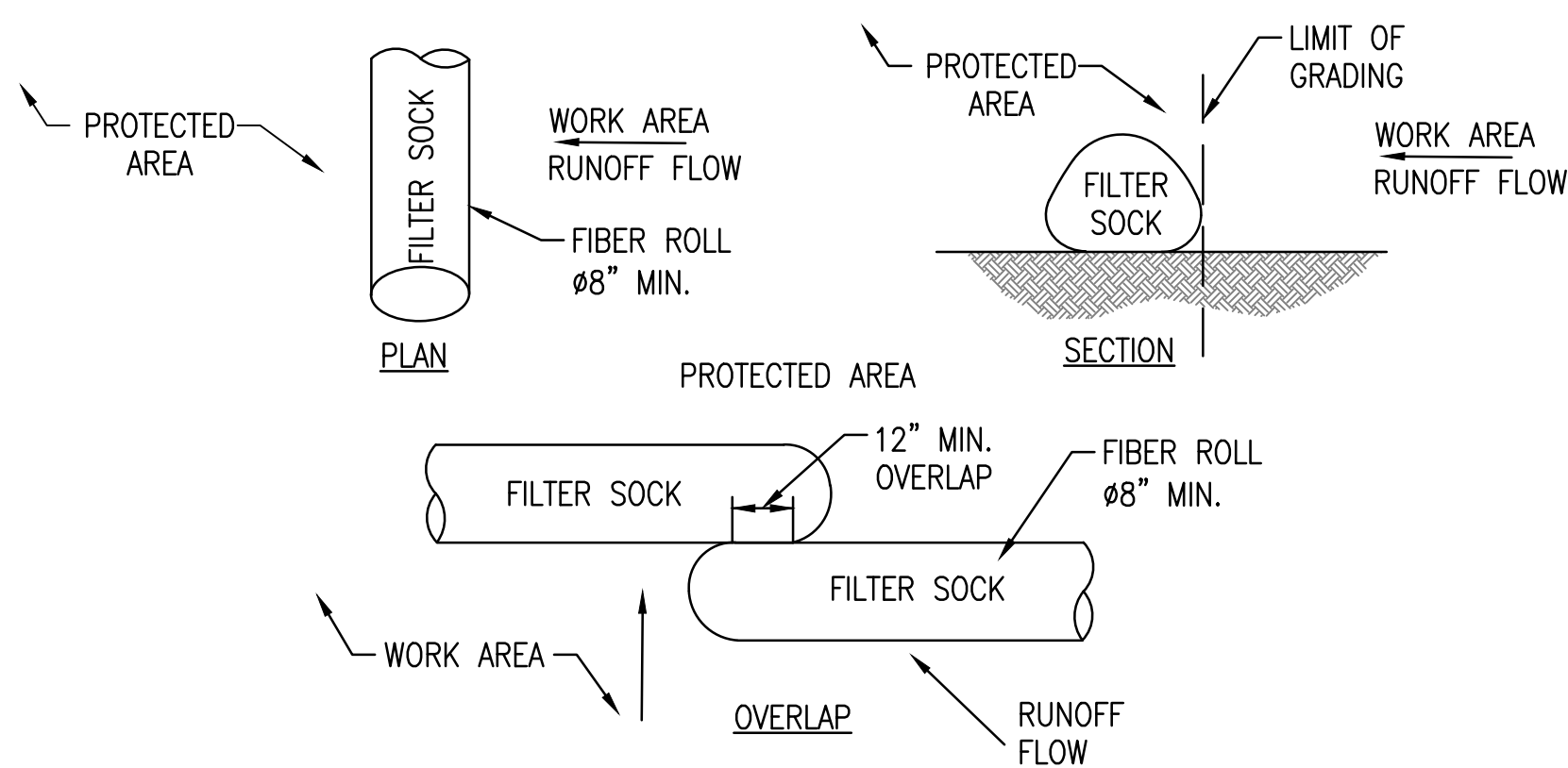
DRAIN INLET PROTECTION

SCALE: N.T.S.



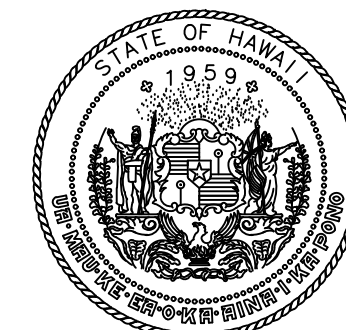
BEST MANANAGEMENT PRACTICES PLAN

SCALE: 1"=10'



FIBER ROLL DETAIL

SCALE: N.T.S.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS

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of the License

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JL	AP	JL	JL

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS

MAY 2026
DATE

PROJECT TITLE :

UNICOM TOWER
INSTALLATION

AT
KAWAIHAPAI AIRFIELD
MOKULEIA, OAHU, HAWAII

PROJECT NO.:

CO2541-33

SHEET TITLE:

BEST MANAGEMENT PRACTICES PLAN

DATE :

MAY 7, 2026

SHEET :

6 OF 14 SHEETS

DWG. NO.

C-003

C:\USERS\JULIE\ONE DRIVE - OCEANIT\GCC HIGH\HNL IDIOT TEAM - GENERAL\IP PROJECTS\SHOH KAWAIHAPAI\CO2541-33 UNICOM TOWER INSTALLATION\FINAL PACKAGE\DRAWINGS\FINAL\FINAL SUBMITTAL\03-CIVIL\03-C-100 TO C-105 - PLANS.DWG

BEST MANAGEMENT PRACTICE EROSION CONTROL NOTES:

1. CONTRACTOR TO INSTALL DRAIN INLET PROTECTION BEFORE THE START OF ANY WORK.
2. DRAIN INLET PROTECTION SHALL BE IMMEDIATELY REPAIRED WHEN DAMAGED DURING CONSTRUCTION OPERATIONS.
3. BMP MEASURES AND PRACTICES SHALL BE IN ACCORDANCE WITH DOTA'S HNL SWMPP, WHICH INCLUDES, BUT IS NOT LIMITED TO, DOTA'S CONSTRUCTION ACTIVITIES BMP FIELD MANUAL.
4. THE CONTRACTOR'S CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE AND COMPLIANCE WITH THE DOH'S NPDES PERMIT WHICH INCLUDES, BUT IS NOT LIMITED TO, HAR CHAPTER 11-54, 11-55, AND 11-56.
5. THE CONTRACTOR SHALL REQUEST AN INITIAL BMP INSPECTION BE CONDUCTED BY AIR-EE. THE INITIAL BMP INSPECTION WILL BE SUBJECT TO THE AVAILABILITY OF THE BMP INSPECTOR. NO CONSTRUCTION ACTIVITIES, EXCEPT FOR ACTIVITIES REQUIRED FOR THE INSTALLATION OF THE TEMPORARY BMP MEASURES, SHALL COMMENCE PRIOR TO THE INITIAL BMP INSPECTION AND THE CORRECTION OF ALL DEFICIENCIES THAT ARE NOTED DURING THE INSPECTION. ONLY AFTER ALL CORRECTIVE ACTIONS HAVE BEEN DOCUMENTED AND ACCEPTED BY AIR-EE SHALL CONSTRUCTION ACTIVITIES BE ALLOWED TO COMMENCE.
6. INDEPENDENT THIRD-PARTY BMP INSPECTION WILL BE CONDUCTED MONTHLY. THE CONTRACTOR SHALL COMPLY WITH THESE INSPECTIONS.
7. AFTER THE SITE HAS BEEN PERMANENTLY STABILIZED, THE CONTRACTOR SHALL REQUEST A FINAL BMP INSPECTION BE CONDUCTED BY AIR-EE. THE FINAL BMP INSPECTION WILL BE SUBJECT TO THE AVAILABILITY OF THE AIR-EE BMP INSPECTOR. NO BMP MEASURES SHALL BE REMOVED PRIOR TO THE FINAL BMP INSPECTION AND THE CORRECTION OF ALL DEFICIENCIES THAT ARE NOTED DURING THE INSPECTION. ONLY AFTER ALL CORRECTIVE ACTIONS HAVE BEEN DOCUMENTED AND ACCEPTED BY AIR-EE SHALL THE BMP MEASURES BE ALLOWED TO BE REMOVED.
8. PROVIDE MEASURES AND/OR PRACTICES THAT MUST BE FOLLOWED BY THE CONTRACTOR TO PREVENT SEDIMENT TRACKING ONTO THE RUNWAYS AND TAXIWAYS EACH DAY. SOMETIMES, INSTALLATION OF A STABILIZED AGGREGATE CONSTRUCTION ENTRANCE/EXIT, ESPECIALLY IN THE MOVEMENT AREA, IS NOT ALWAYS FEASIBLE; THEREFORE, OTHER MEASURES AND PRACTICES MUST BE IMPLEMENTED.
9. EXCAVATED SOIL CAN ONLY BE RE-USED ON AIRPORT PROPERTY AFTER BEING PROPERLY TESTED FOR CONTAMINATES FOLLOWING DOH'S SAMPLING GUIDELINES AND APPROVED BY AIR-EE. SUBMIT THE LABORATORY TEST RESULTS TO THE RPM FOR REVIEW BY AIR-EE. PROPER BMP MEASURES SHALL BE IMPLEMENTED FOR THE STOCKPILES AT ALL TIMES.
10. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND ARE BASED ON THE LATEST DATA AVAILABLE TO THE ENGINEER. THE INFORMATION SHOWN IS NOT GUARANTEED AS TO ITS ACCURACY OR TO ENSURE THE CONTRACTOR FROM ENCOUNTERING OTHER OBSTACLES DURING HIS COURSE OF WORK. THE CONTRACTOR SHALL MAKE INDEPENDENT CHECKS AND CONSULT WITH UTILITY FIRMS TO VERIFY THE EXACT LOCATIONS OF THE UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL NOT BE RELIEVED FROM ANY LIABILITY DUE TO DAMAGES RESULTING FROM HIS OPERATIONS.
11. DUST CONTROL SHALL BE APPLIED TO REDUCE DUST EMISSIONS. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. CONTRACTOR SHALL WATER STOCKPILES TO REDUCE DUST EMISSIONS. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES: CHAPTER 11-60.1 "AIR POLLUTION CONTROL".
12. DOTA REQUIRES THAT STAFF WITH CONSTRUCTION PROGRAM RESPONSIBILITIES (E.G. SPMS, CMS, CONTRACTOR, INSPECTORS, PLAN REVIEWERS) TO BE TRAINED ANNUALLY. THE TRAINING IS SPECIFIC TO DOTA ACTIVITIES, INCLUDING THE PROPER INSTALLATION AND MAINTENANCE OF ACCEPTED BMPS, RULES, AND PROCEDURES. THE PERTINENT TRAINING VIDEO IS AVAILABLE ON THE DOTA WEBSITE: [HTTP://HIDOT.HAWAII.GOV/AIRPORTS/DOING-BUSINESS/ENGINEERING/ENVIRONMENTAL/CONSTRUCTION-SITE-RUNOFF-CONTROL-PROGRAM/](http://hidot.hawaii.gov/airports/doing-business/engineering/environmental/construction-site-runoff-control-program/) SUBMIT THE COMPLETED TRAINING ROSTERS AND CONSTRUCTION TRAINING QUIZZES TO THE DOTA ENVIRONMENTAL SECTION (FAX: 808-838-8017) OR EMAIL TO DOT.AIR.ENVIRONMENTAL@HAWAII.GOV

TEMPORARY EROSION CONTROL NOTES:

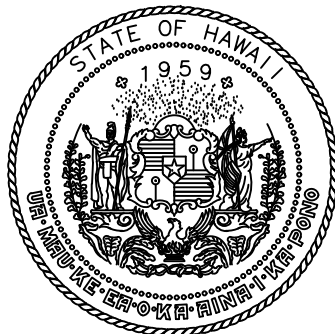
1. THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF LAND TO BE EXPOSED AT ANY ONE TIME.
2. GRADING OPERATIONS SHALL PROCEED FROM THE HIGHER GROUND AREAS FIRST, WHERE EXCAVATION OPERATIONS ARE NECESSARY. THE EXISTING VEGETATION ON THE LOWER AREA SHALL BE LEFT IN PLACE AS LONG AS FEASIBLE TO SERVE AS A FILTER IN MEDIUM.
3. IF THE EXCAVATED MATERIAL FROM HIGHER IS NEEDED TO FILL THE LOWER AREA DESCRIBED IN #2 ABOVE, FILLING OPERATIONS SHALL BE DONE IN PHASES IN ORDER THAT EROSION AND SEDIMENTATION PROBLEMS CAN BE HELD TO A MINIMUM.
4. WHEN INSTALLING THE DRAINAGE SYSTEM FOR THE PROJECT, SEDIMENT CONTROL FILTERS OR FILTER FABRIC AT THE INLETS TO THE SYSTEM SHALL BE PROVIDED TO PREVENT SILT FROM ENTERING THE SYSTEM.
5. THE ABOVE PROCEDURE FOR EROSION AND SEDIMENT CONTROL MAY BE REVISED BY THE CONTRACTOR TO CONFORM TO HIS GRADING OPERATION PROCEDURE, HOWEVER, ANY REVISION TO THE ABOVE SHALL BE SUBMITTED BY THE CONTRACTOR TO THE RPR FOR APPROVAL BY THE DOTA'S ENVIRONMENTAL SECTION (AIR-EE) PRIOR TO IMPLEMENTATION OF THE CHANGES.

FIBER ROLL NOTES:

1. FIBER ROLLS SHALL BE PLACED AROUND THE CONTRACTORS STAGING AND STOCKPILE AREAS AS SHOWN IN THE PLAN.
2. FIBER ROLLS SHALL CONSIST OF STRAW, FLAX, MULCH OR OTHER SIMILAR MATERIAL BOUND IN A TIGHT TUBULAR ROLL A MINIMUM OF 8" IN DIAMETER.
3. BIND ROLL AT EACH END AND EVERY 4 FT ALONG LENGTH OF ROLL WITH JUTE-TYPE TWINE.
4. TURN THE ENDS OF THE FIBER ROLL UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE ROLL.
5. STAKE FIBER ROLLS ON-GRADE AS NECESSARY.

A. DRIVE STAKES AT THE END OF EACH FIBER ROLL AND SPACED 4 FT MAXIMUM ON CENTER.

B. USE STAKES WITH A MINIMUM LENGTH OF 12 IN.
6. IF MORE THAN ONE FIBER ROLL IS PLACED IN A ROW, THE ROLLS SHOULD BE OVERLAPPED, NOT ABUTTED
7. INSPECT FIBER ROLL DAILY AND IMMEDIATELY AFTER EACH RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
8. SHOULD THE FABRIC ON A FIBER ROLL DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
9. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. SEDIMENT SHALL BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
10. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE FIBER ROLL IS NO LONGER REQUIRED SHALL BE REMOVED BY THE CONTRACTOR.



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JL	AP	JL	JL

NO.	DATE	REVISIONS
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CONSTRUCTION
DOCUMENTS

MAY 2026
DATE

PROJECT TITLE :

UNICOM TOWER
INSTALLATION

AT
KAWAIHAPAI AIRFIELD
MOKULEIA, OAHU, HAWAII

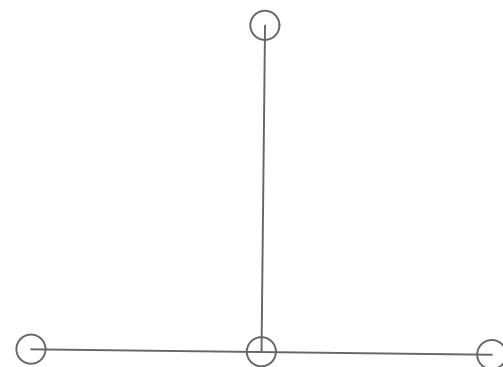
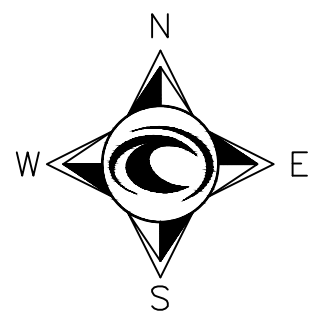
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CO2541-33

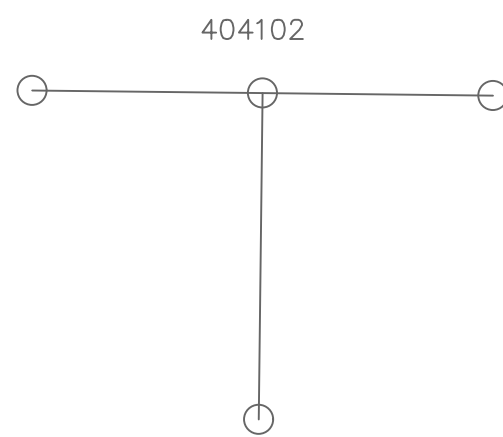
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BEST MANAGEMENT
PRACTICES
NOTES

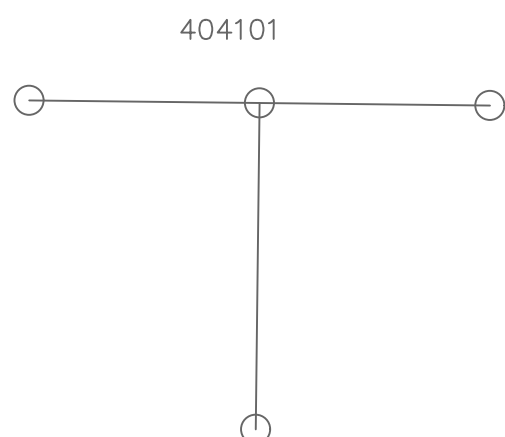
DATE :	DWG. NO. C-004
MAY 7, 2026	
SHEET :	
7 OF 14 SHEETS	



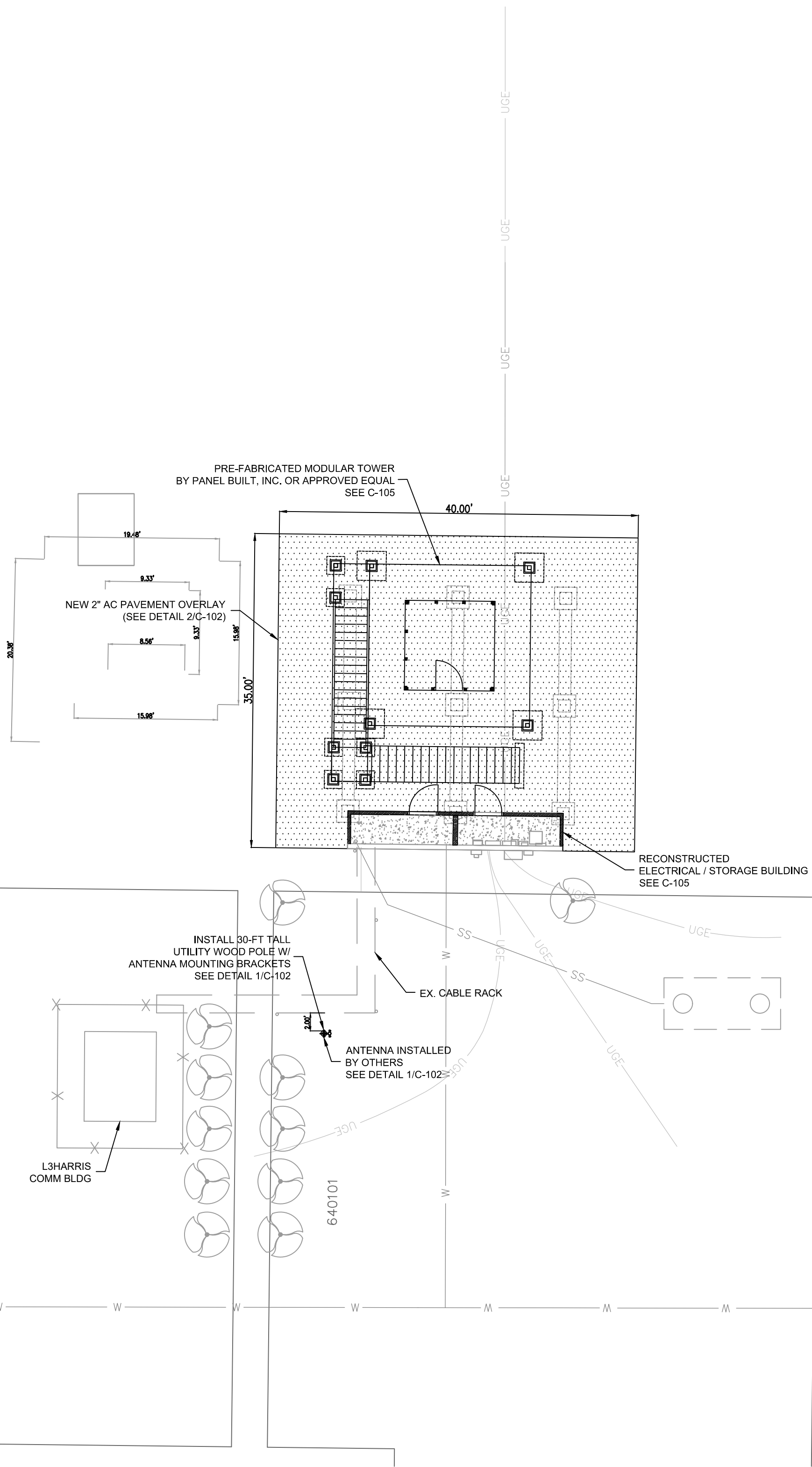
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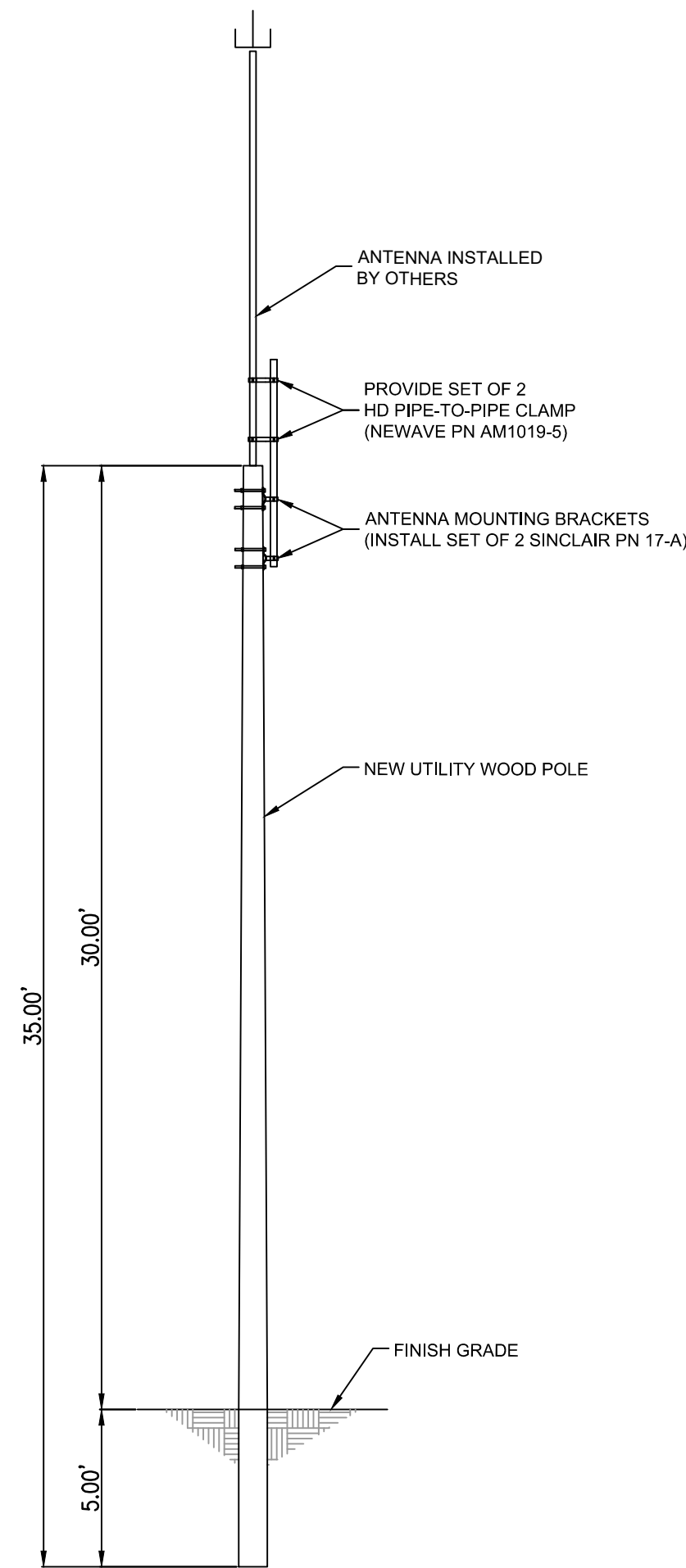
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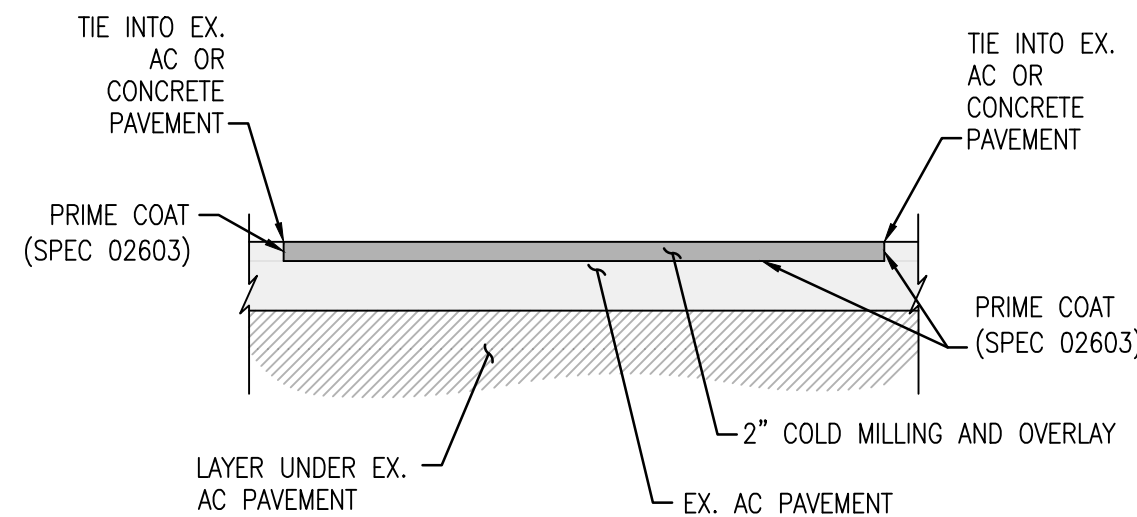
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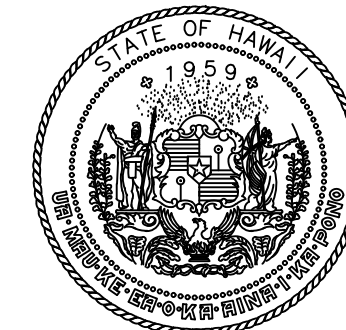
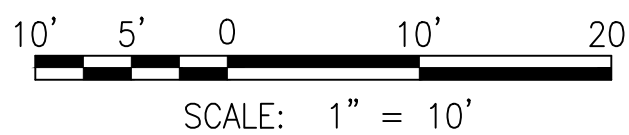
SITE PLAN
SCALE: 1"=10'



1 UTILITY WOOD POLE DETAIL
SCALE: 1" = 5'



2 COLD MILLING & OVERLAY DETAIL
SCALE: N.T.S.



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JL	AP	JL	JL

NO.	DATE	REVISIONS
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**CONSTRUCTION
DOCUMENTS**
MAY 2026
DATE

PROJECT TITLE :

**UNICOM TOWER
INSTALLATION**

AT
KAWAIHAPAI AIRFIELD
MOKULEIA, OAHU, HAWAII

PROJECT NO.:

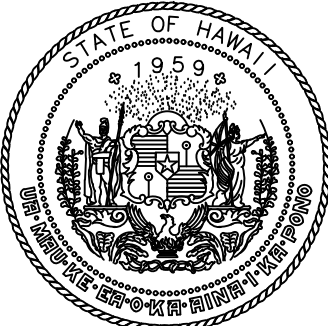
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SHEET TITLE:

**SITE
PLAN**

DATE :	DWG. NO.
MAY 7, 2026	C-101
SHEET :	
5 OF 14 SHEETS	

C:\USERS\JL\LEON\DRIVE - OCEANIT\GCC HIGH\HNL IDIG TEAM - GENERAL\IP PROJECTS\SHO KAWAIHAPAI\CO2541-33 UNICOM TOWER INSTALLATION\DESIGN PACKAGE\DRAWINGS\FINAL\FINAL SUBMITTAL\03-CIVIL\C-100 TO C-105 - PLANS.DWG



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JL	AP	JL	JL

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CONSTRUCTION DOCUMENTS

MAY 2026
DATE

PROJECT TITLE :

UNICOM TOWER
INSTALLATION

AT
KAWAIHAPAI AIRFIELD
MOKULEIA, OAHU, HAWAII

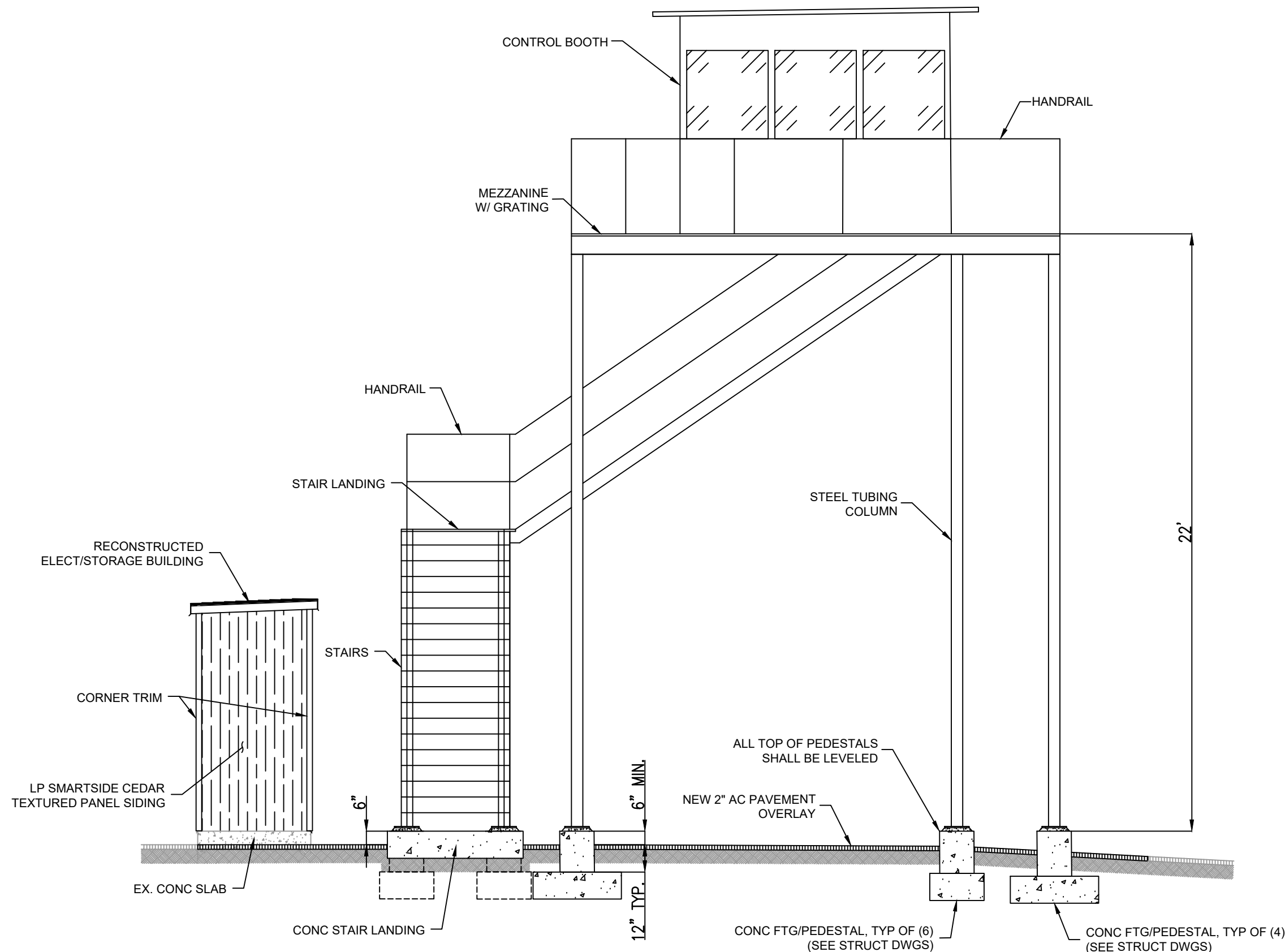
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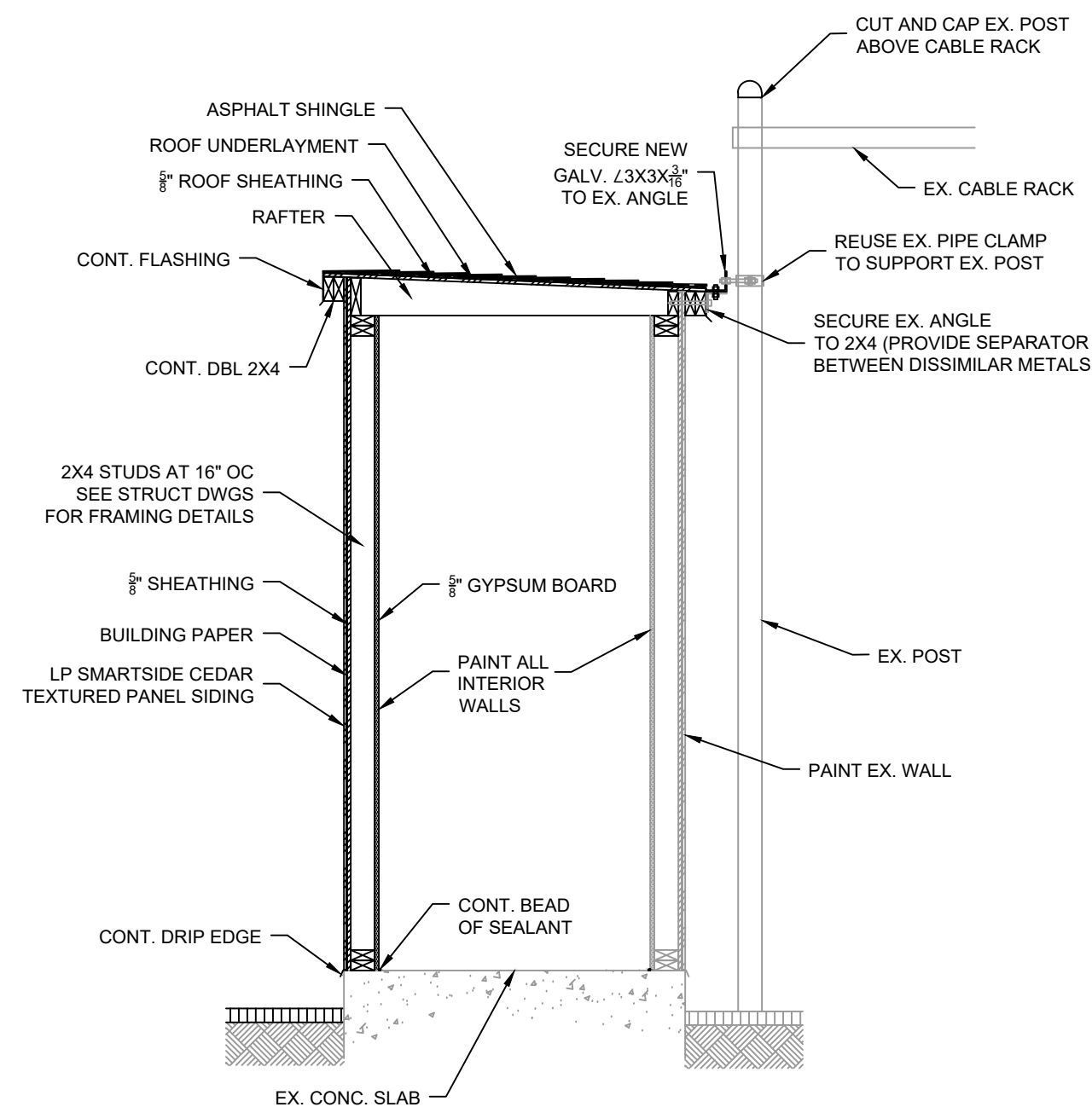
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ELEVATIONS
AND
DETAILS

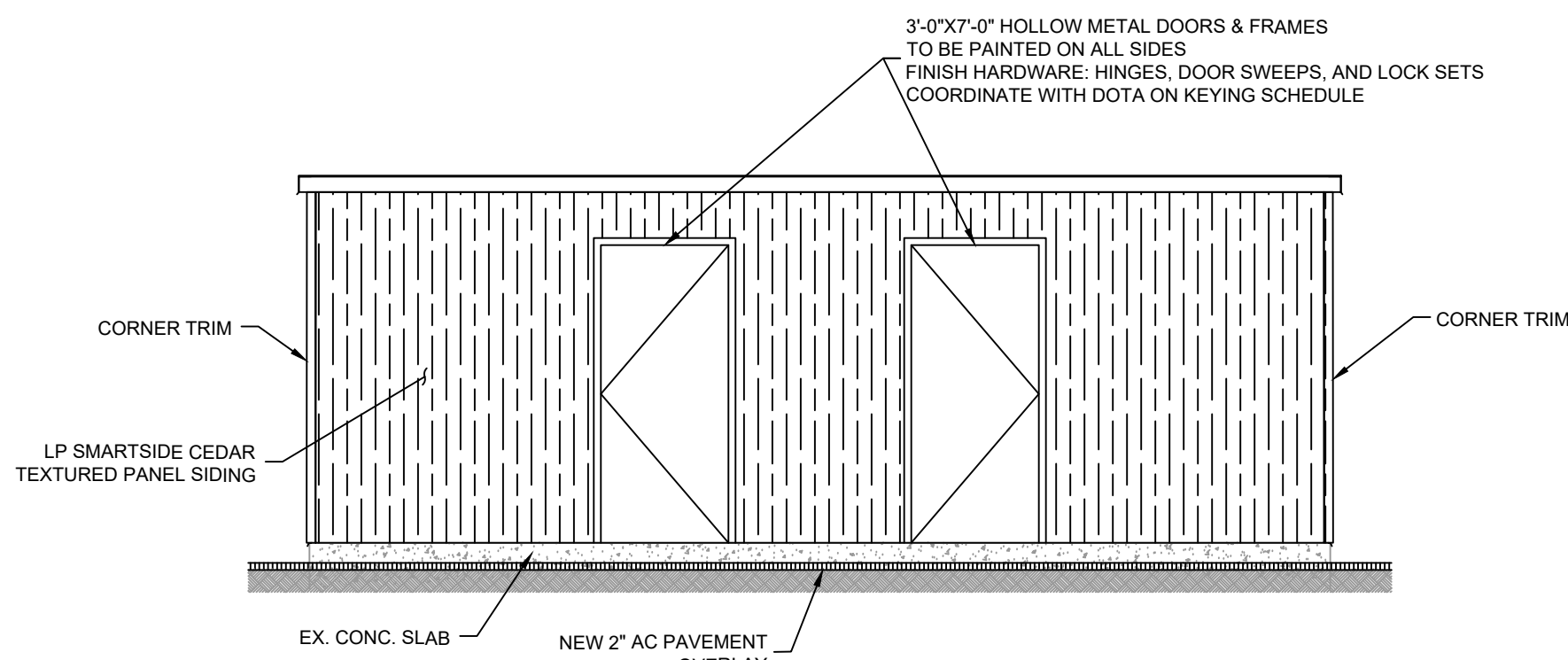
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MAY 7, 2026	C-102
SHEET :	
8 OF 14 SHEETS	



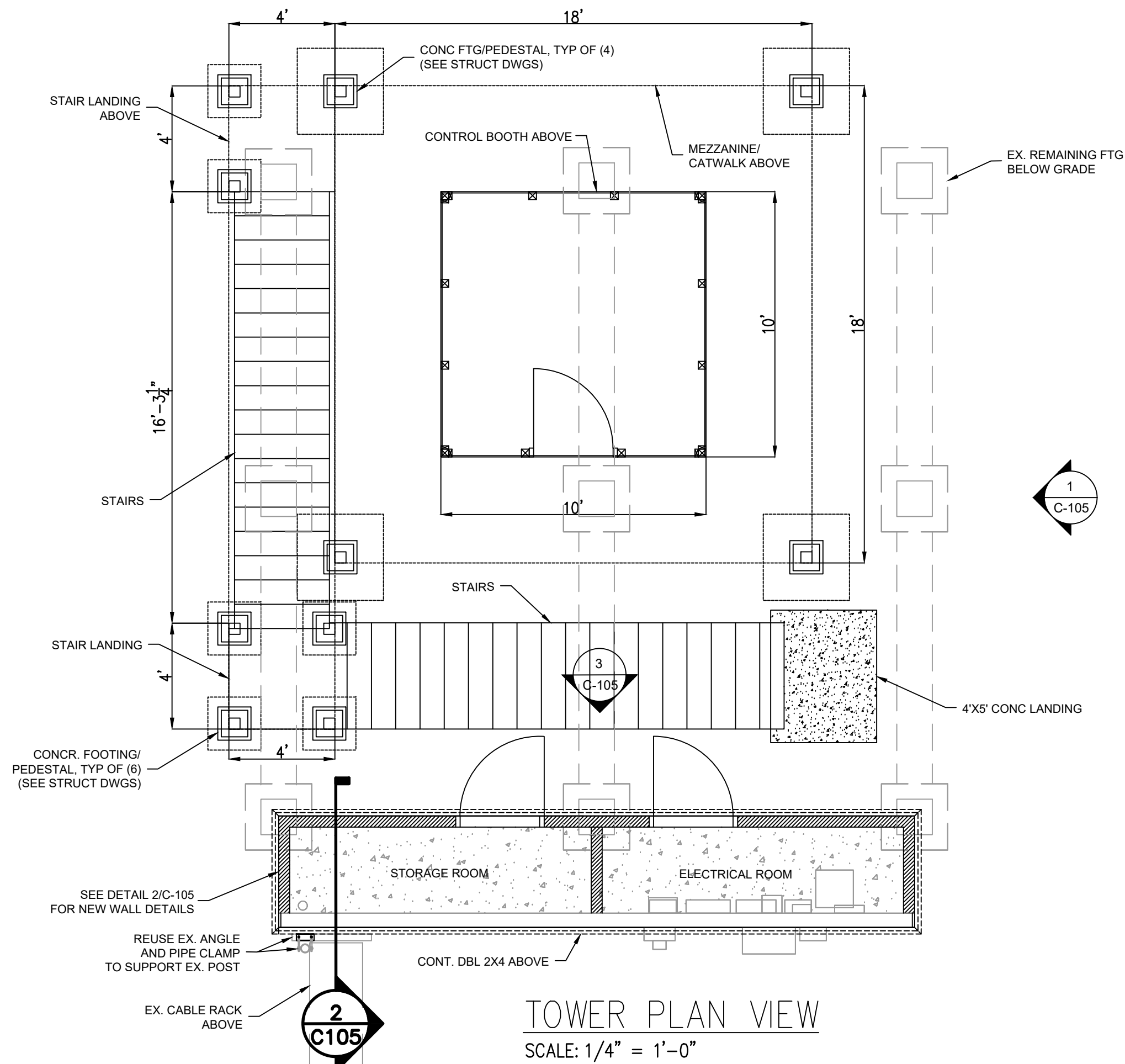
1
C-105
TOWER ELEVATION VIEW
SCALE: 1/4" = 1'-0"



2
C-105
ELECT/STORAGE BLDG SECTION
SCALE: 1/2" = 1'-0"



3
C-105
ELECT/STORAGE BLDG ELEVATION
SCALE: 1/4" = 1'-0"



2
C105
TOWER PLAN VIEW
SCALE: 1/4" = 1'-0"

- NOTES:
- PRE-ENGINEERED METAL BUILDING BY PANEL BUILT, INC. OR APPROVED EQUAL.
 - THE CONTRACTOR SHALL PROVIDE PRE-ENGINEERED METAL BUILDING SHOP DRAWINGS AND CALCULATIONS SIGNED AND STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF HAWAII FOR REVIEW AND APPROVAL.

STRUCTURAL NOTES

FOUNDATIONS:

- IN ACCORDANCE WITH TABLE 1806.2 OF THE BUILDING CODE, AN ALLOWABLE FOUNDATION BEARING PRESSURE OF 1,500 PSF HAS BEEN ASSIGNED FOR THE DESIGN OF FOUNDATIONS RELATED TO THIS PROJECT.
- SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
- ALL FOUNDATIONS SHALL BE FOUNDED A MINIMUM OF 12 INCHES BELOW LOWEST ADJACENT FINAL FINISH FLOOR OR GRADE. EXPOSED SOIL SHALL BE INSPECTED BY THE INSPECTION AGENCY REPRESENTATIVE PRIOR TO CONSTRUCTING CONCRETE FORMS AND/OR PLACING REINFORCING STEEL. ANY EXCESS OR NON-COMPLYING MATERIAL AS DETERMINED BY THE INSPECTION AGENCY REPRESENTATIVE SHALL BE REMOVED AND REPLACED.
- CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE.
- CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN ALL EARTH BANKS.
- IF THE CONTRACTOR, DURING THE COURSE OF SITE WORK, DISCOVERS ANY SOIL CONDITION THAT IS UNSUITABLE (VEGETATION/ORGANICS, POTTING SOIL, ORGANIC SOIL, UNDOCUMENTED FILLS, SOFT/WET SOILS, CONSTRUCTION DEBRIS, ETC.) THE ENGINEER OF RECORD SHALL BE NOTIFIED IMMEDIATELY.
- SUBGRADE AT ALL FOOTINGS SHALL BE PREPARED WITH 6" WELL-GRADED GRAVEL SUBBASE AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY.

REINFORCING STEEL

- UNLESS OTHERWISE INDICATED ON PLANS AND/OR SCHEDULE, ALL REINFORCING STEEL SHALL BE DEFORMED BARS WHICH SHALL CONFORM TO THE STANDARD SPECIFICATION OF ASTM A615 GRADE 60. ALL REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.
- LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING TO REINFORCED BARS.
- REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED. SPLICES AT OTHER LOCATIONS SHALL BE MADE AWAY FROM POINTS OF MAXIMUM STRESS AND APPROVED BY THE ENGINEER. SEE DETAILS FOR "LAP SPLICES".
- BARS NOTED AS "CONT" VERTICAL AND HORIZONTAL WALL REINFORCING AND COLUMN REINFORCING SHALL HAVE A MINIMUM SPLICE EQUAL TO 48 BAR DIAMETERS BUT NOT LESS THAN 24 INCHES.
- ALL REINFORCING STEEL, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.

CONCRETE:

- ALL CONCRETE WORK SHALL CONFORM TO ACI 318-14, UNLESS OTHERWISE NOTED.
- SLEEVES EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. PIPE MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES BUT SHALL NOT BE EMBEDDED THEREIN.
- PROVIDE A 3/4" CHAMFER AT ALL EXPOSED CONCRETE EDGES.
- ALL CONCRETE WORK SHALL BE THOROUGHLY CONSOLIDATED DURING PLACEMENT USING A MECHANICAL VIBRATOR. ALL CONCRETE SHALL BE CURED FOR A PERIOD OF NOT LESS THAN 7 DAYS.
- LOCATIONS OF ALL CONSTRUCTION OR COLD JOINTS SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.
- 48 HOURS PRIOR TO THE POURING OF ANY STRUCTURAL CONCRETE, THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR SO AN INSPECTION CAN BE MADE OF ALL FORMS AND REINFORCING STEEL.
- THE 28-DAY COMPRESSIVE STRENGTH AND MAXIMUM AGGREGATE SIZE OF CONCRETE SHALL BE AS FOLLOWS:

	STRENGTH (PSI)	MAX AGGREGATE	W/C RATIO
FOOTINGS	4,000	3/4"	0.50

SPECIAL INSPECTION REQUIREMENTS LIST BELOW:

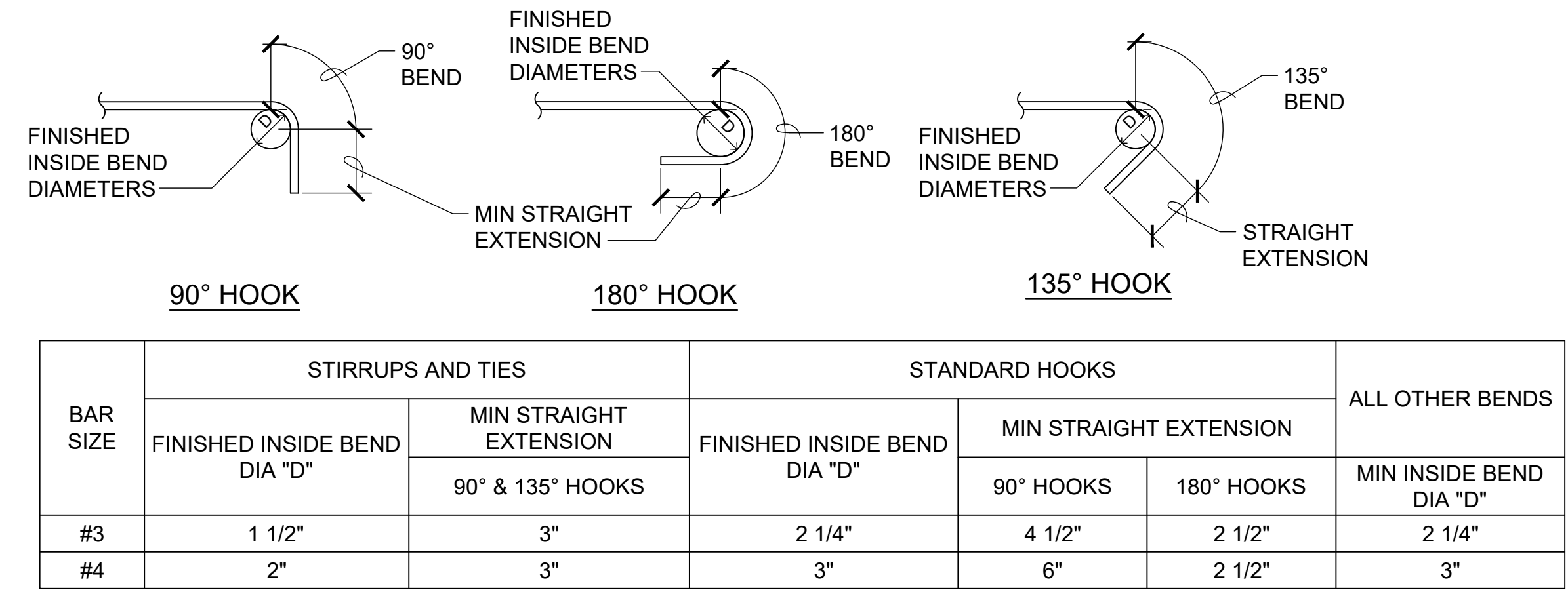
- THE CONTRACTOR SHALL EMPLOY A SPECIAL INSPECTOR FOR WORK REQUIRING SPECIAL INSPECTION PER CHAPTER 17 OF THE 2018 IBC.
- SPECIAL INSPECTION FIRM SHALL HAVE AT LEAST 6 YEARS OF EXPERIENCE AND SHALL BE CERTIFIED WITHIN THE BUILDING DEPARTMENT JURISDICTION OF CONSTRUCTION (IF SUCH CERTIFICATION EXIST).
- THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE SPECIAL INSPECTOR TO ENSURE THAT ALL ELEMENTS REQUIRING SPECIAL INSPECTION ARE INSPECTED.
- SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING TYPES OF WORK:
 - CONCRETE:
OBSERVE THE TAKING OF TEST SPECIMENS AND THE PLACING OF CONCRETE FOR ALL ELEMENTS.
 - REINFORCING STEEL:
OBSERVE THE PLACEMENT OF ALL REINFORCING. THE SPECIAL INSPECTOR NEED NOT BE PRESENT CONTINUOUSLY DURING THE PLACING OF REINFORCING STEEL, PROVIDED HE HAS INSPECTED FOR CONFORMANCE WITH THE APPROVED PLANS PRIOR TO THE CLOSING OF FORMS FOR THE DELIVERY OF CONCRETE TO THE JOBSITE.
 - EXPANSION BOLTS AND EPOXIED ANCHORS
 - FIELD WELDING
 - PRE-ENGINEERED METAL BUILDING CONSTRUCTION

DESIGN LOADS:

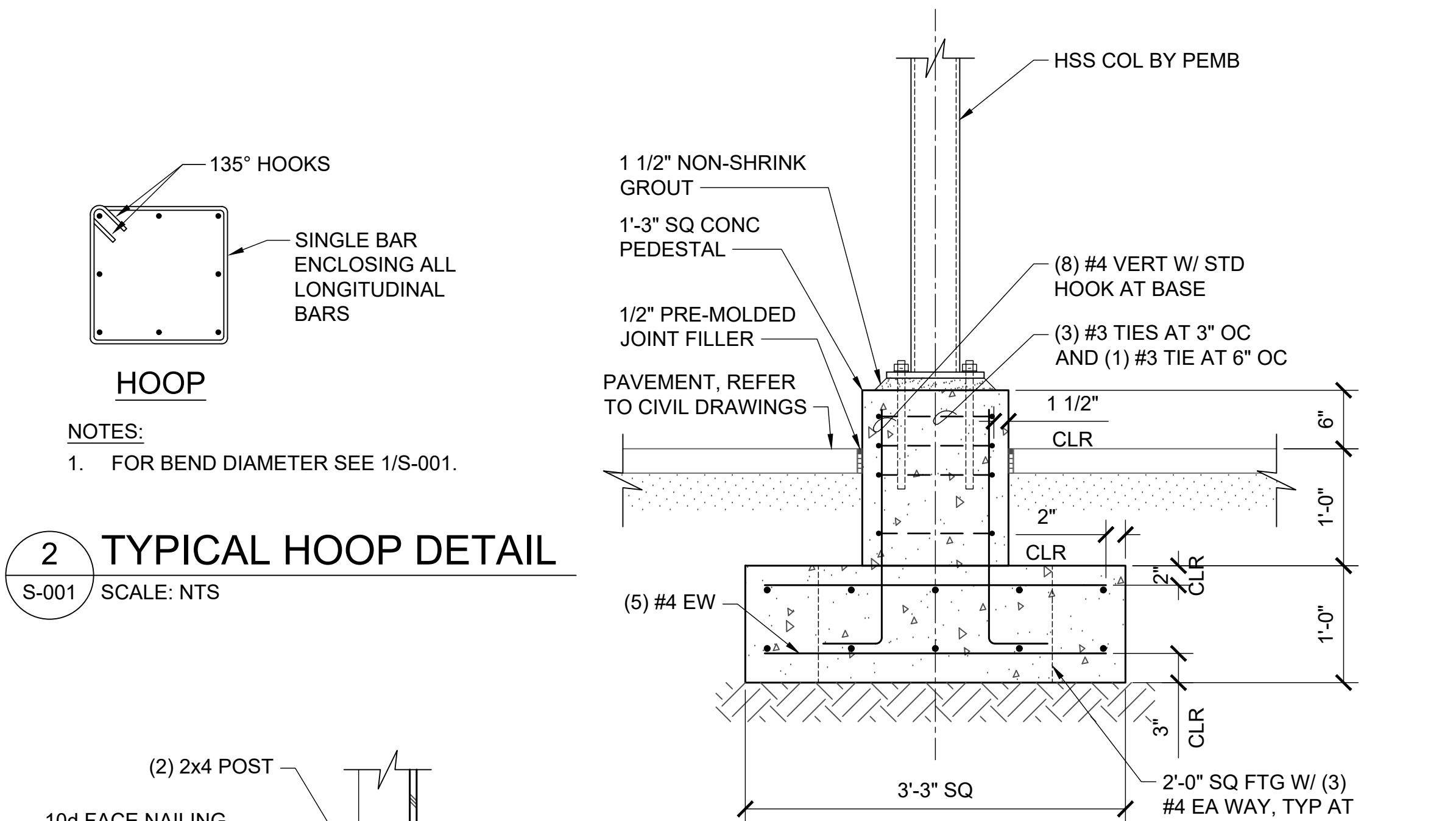
- WIND LOADS:
RISK CATEGORY II
BASIC WIND SPEED (3-SEC GUST) 140 MPH
WIND EXPOSURE C
- EARTHQUAKE DESIGN DATA"
RISK CATEGORY II
SEISMIC IMPORTANCE FACTOR 1.0
MAPPED ACCELERATION PARAMETERS
S_s (PERIOD = 0.2s) 0.520
S_i (PERIOD = 1.0s) 0.139
S_{DS} 0.480
S_{D1} 0.215
SITE CATEGORY C

WOOD:

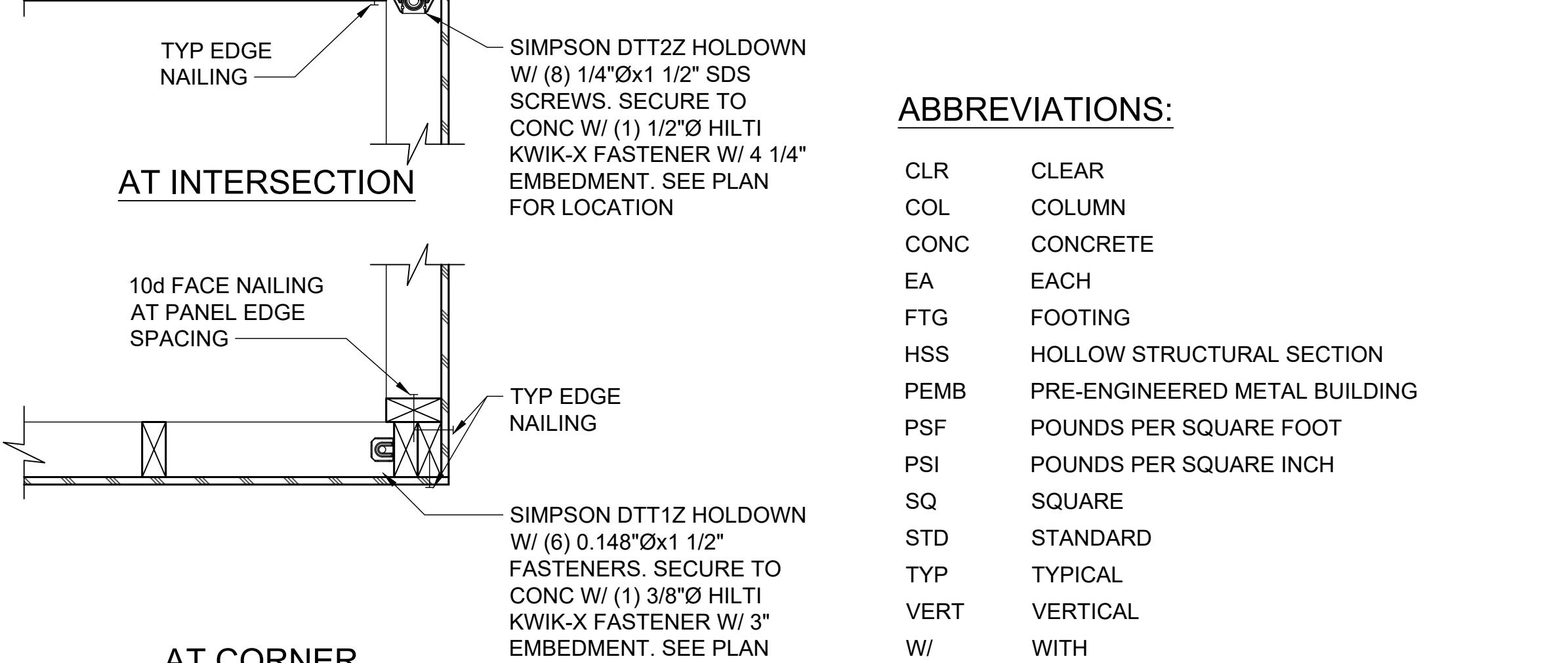
- LUMBER AND MANUFACTURED WOOD PRODUCTS SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE AND NDS SPECIFICATIONS.
- FRAMING LUMBER SHALL BE GRADED AND MARKED IN CONFORMANCE WITH WCLB STANDARD GRADING AND DRESSING RULES FOR WEST COAST LUMBER NO. 16, LATEST EDITION, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL SHEATHING AND LUMBER MATERIALS SHALL BE PRESERVATIVE-TREATED IN ACCORDANCE WITH AWPA STANDARD U1 (UC1 THROUGH UC48) FOR AWPA STANDARDIZED PRESERVATIVES. FOR SBX DISODIUM OCTOBORATE TETRAHYDRATE (DOT), RETENTION SHALL BOT BE LESS THAN 0.28 PCF B203 FOR EXPOSURE TO FORMOSAN TERMITES. ALL TREATED LUMBER SHALL BE PROTECTED FROM DIRECT WEATHER EXPOSURE AS DIRECTED IN AWPA UC1 AND UC2.
- LUMBER SHALL BE DOUGLAS FIR-LARCH WITH GRADES AS FOLLOWS:
 - JOISTS: UP TO 4 INCH NOMINAL THICKNESS NO. 2
 - BEAMS AND STRINGERS NO. 1
 - POST AND TIMBERS NO. 1
 - PLATES AND MISCELLANEOUS LIGHT FRAMING STANDARD
- STUDS NO. 2
- ALL NAILS SHALL BE COMMON WIRE NAILS. WHEREVER POSSIBLE, NAILS DRIVEN PERPENDICULAR TO THE GRAIN SHALL BE USED. THERE SHALL BE A MINIMUM OF 2 NAILS AT ALL WOOD CONTACTS AND JOINTS USING 8d NAILS FOR 1 INCH THICK MATERIAL, 16d NAILS FOR 2 INCH THICK MATERIAL, AND 40d NAILS FOR 3 INCH THICK MATERIAL. ALL CONTINUOUS CONTACTS PROVIDE MINIMUM NAILS AT 12" OC WITH NAIL SIZES AS CALLED ABOVE.
- NOTATIONS ON DRAWINGS RELATING TO FRAMING CLIPS, JOIST HANGERS, AND OTHER CONNECTING DEVICES REFER TO CATALOG NUMBERS OF STRONGTIE CONNECTORS MANUFACTURED BY THE SIMPSON COMPANY. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THAT THEY HAVE ICC APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES AND ARE SUBMITTED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER.
- ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE GOVERNING CODE.
- PROVIDE STANDARD CUT WASHERS UNDER ALL BOLTS, HEADS, AND NUTS IN CONTACT WITH WOOD.
- ALL STRUCTURAL SHEATHING SHALL BE STRUCTURAL I PLYWOOD OR ORIENTED STRAND BOARD (OSB) AND SHALL CONFORM TO PRODUCT STANDARD PS1-95 OR PS2-99 TYPE AND THICKNESS SHALL BE AS SPECIFIED ON THE PLANS.
- MACHINE APPLIED NAILING IS SUBJECT TO A SATISFACTORY DEMONSTRATION AND THE APPROVAL OF THE CHECKING AGENCY AND THE ENGINEER. NAIL HEADS SHALL NOT PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER. EDGE DISTANCES SHALL BE MAINTAINED. SHINERS SHALL BE REMOVED AND REPLACED. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE APPLIED NAILING ONLY ON PLYWOOD GREATER THAN 5/16".



1 REBAR STANDARD HOOKS AND INSIDE BEND DIAMETERS
S-001 SCALE: NTS



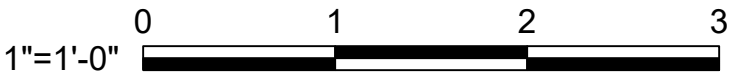
3 TYP COLUMN FOOTING
S-001 SCALE: 1" = 1'-0"



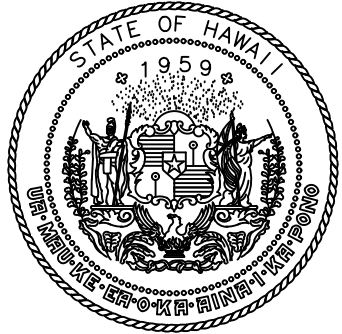
ABBREVIATIONS:

CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
EA	EACH
FTG	FOOTING
HSS	HOLLOW STRUCTURAL SECTION
PEMB	PRE-ENGINEERED METAL BUILDING
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
SQ	SQUARE
STD	STANDARD
TYP	TYPICAL
VERT	VERTICAL
W/	WITH

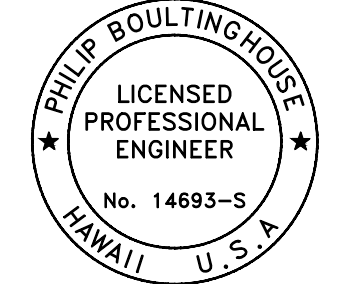
GRAPHIC SCALES:



4 SHEAR WALL INTERSECTION
S-001 SCALE: NTS



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS



Philip Boultinghouse
04/30/2028
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DSGN.	DRWN.	CHKD.	APPD.
PB	MM	KL	PB

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
MAY 2026
DATE

PROJECT TITLE :

UNICOM TOWER INSTALLATION
AT
KAWAIHAPAI AIRFIELD
MOKULEIA, OAHU, HAWAII

PROJECT NO.:

CO2541-33

SHEET TITLE:

GENERAL NOTES AND DETAILS

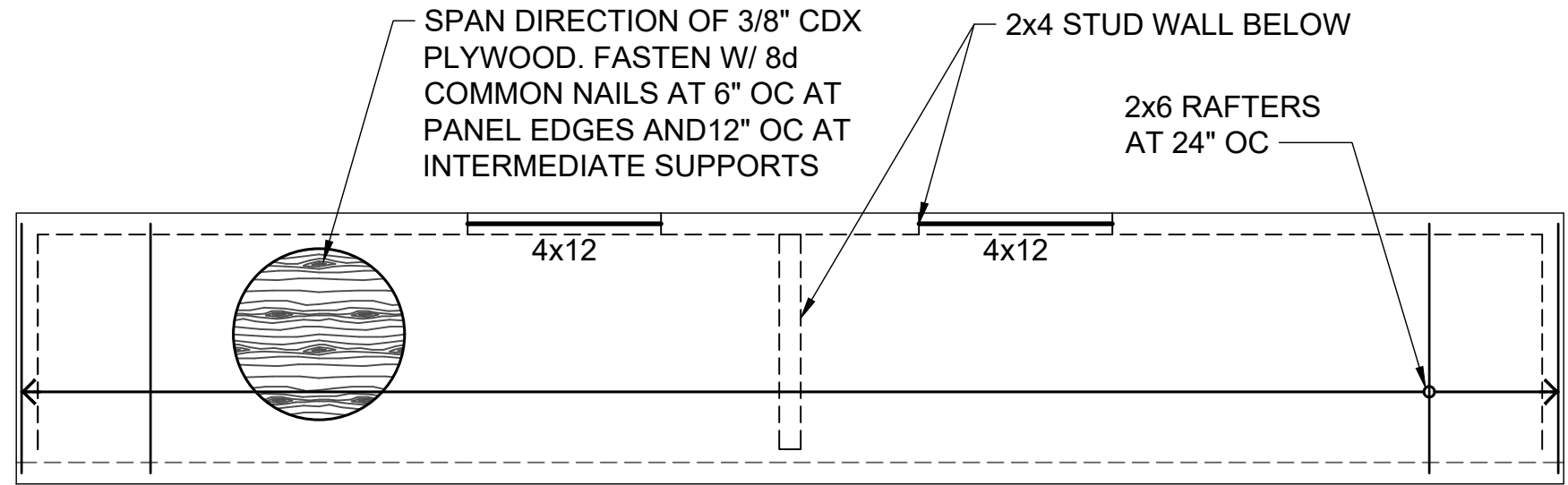
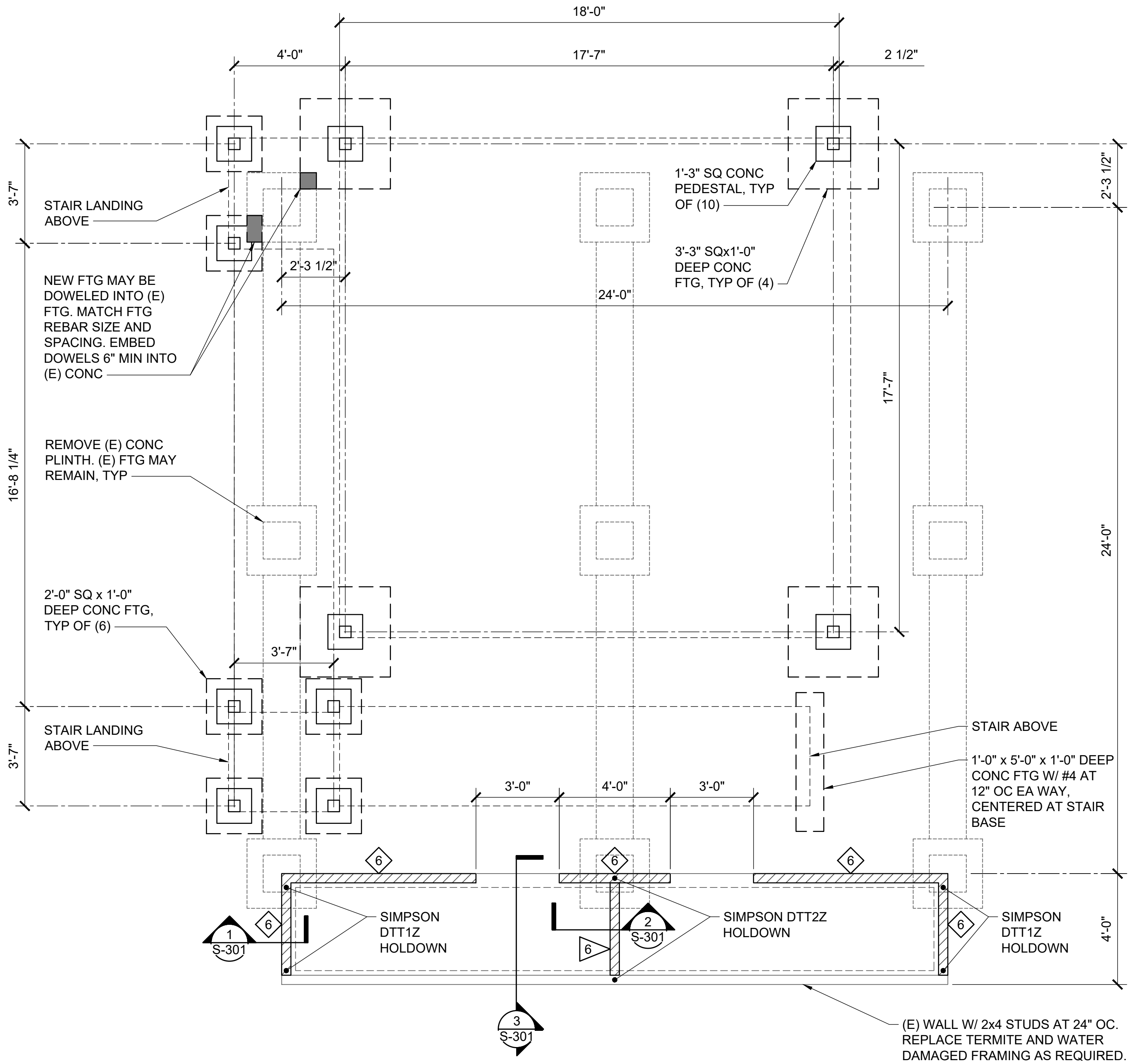
DATE :	DWG. NO.
MAY 7, 2026	S-001
SHEET :	
9 OF 14 SHEETS	

LEGEND

- 6 INDICATES SHEAR WALL WITH 15/32 PLYWOOD SIDING. FASTEN SIDING TO WALL FRAMING WITH 1 1/2" 16 GA STAPLES SPACED 6" OC AT PANEL EDGES. PROVIDE STAPLES AT 12" OC AT INTERMEDIATE SUPPORTS.
- 6 INDICATES SHEAR WALL WITH 3/8" PLYWOOD. FASTEN PLYWOOD TO WALL FRAMING WITH 8d COMMON NAILS AT 4" OC AT PANEL EDGES AND 8d COMMON NAILS AT 12" OC AT INTERMEDIATE SUPPORTS.

NOTE:

FOUNDATIONS SHOWN ON THIS DRAWING ARE BASED ON PRELIMINARY DRAWINGS PROVIDED BY PANEL BUILT, INC., A PRE-ENGINEERED METAL BUILDING MANUFACTURER BASED IN BLAIRSVILLE, GEORGIA. FOUNDATION INFORMATION IS PROVIDED FOR PRICING ONLY. PRIOR TO FOUNDATION CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE FOUNDATION CALCULATIONS SIGNED AND STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF HAWAII TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. CONTRACTOR SHALL ALSO PROVIDE PRE-ENGINEERED METAL BUILDING SHOP DRAWINGS AND CALCULATIONS SIGNED AND STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF HAWAII TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

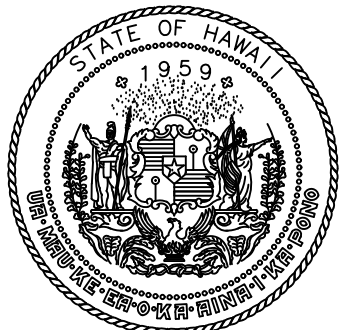


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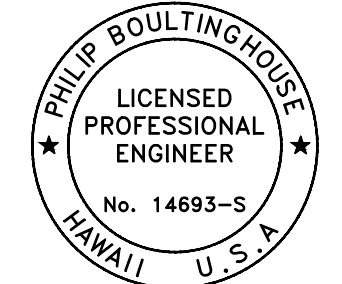


1 NEW BUILDING FOUNDATION PLAN OVER EXISTING
S-001 SCALE: 3/8" = 1'-0"

2 ROOF FRAMING AT ELEC SHED
S-001 SCALE: 3/8" = 1'-0"



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04/30/2028
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PB	MM	KL	PB

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS
MAY 2026
DATE

PROJECT TITLE :

**UNICOM TOWER
INSTALLATION**

AT
KAWAIHAPAI AIRFIELD
MOKULEIA, OAHU, HAWAII

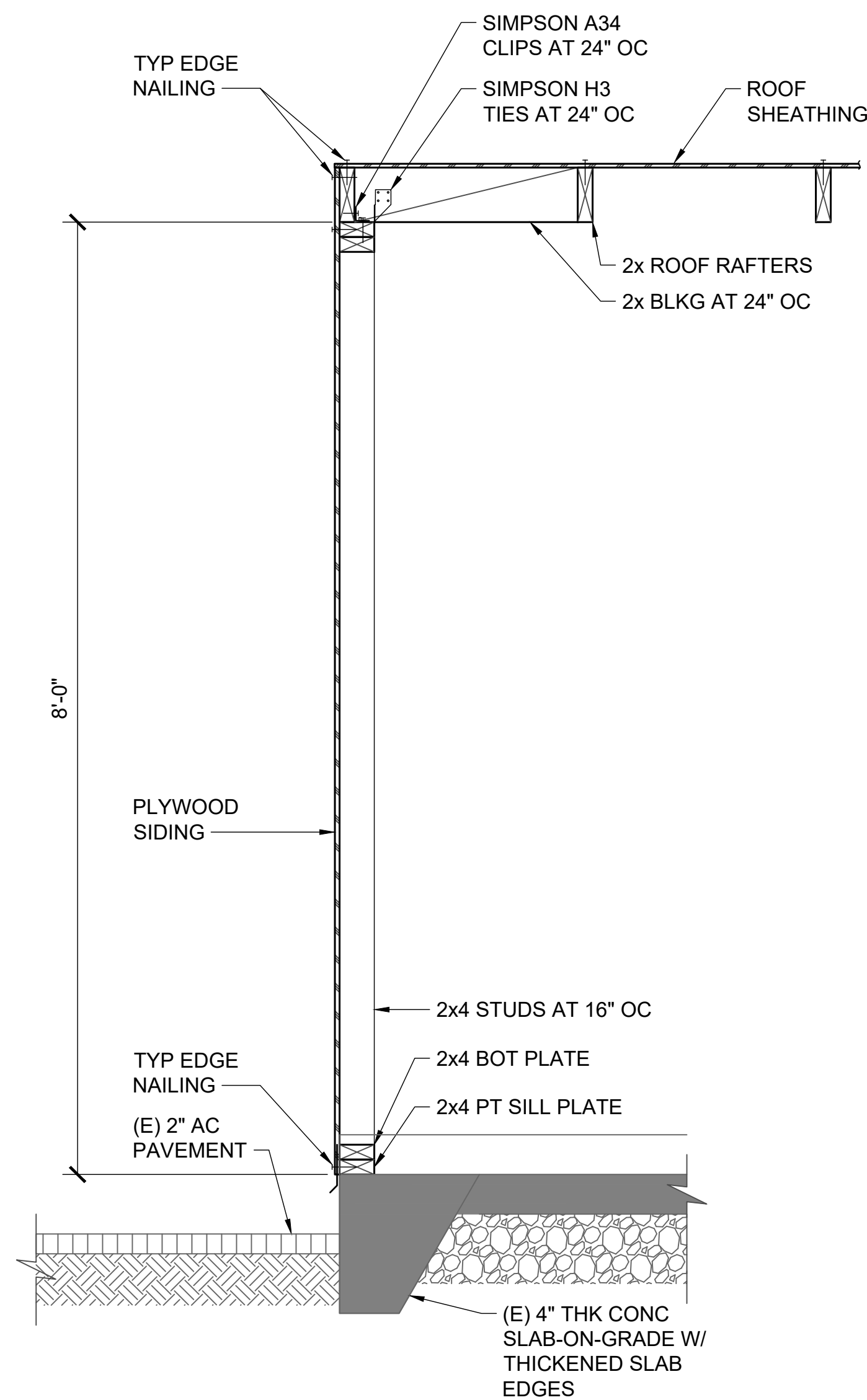
PROJECT NO.:

CO2541-33

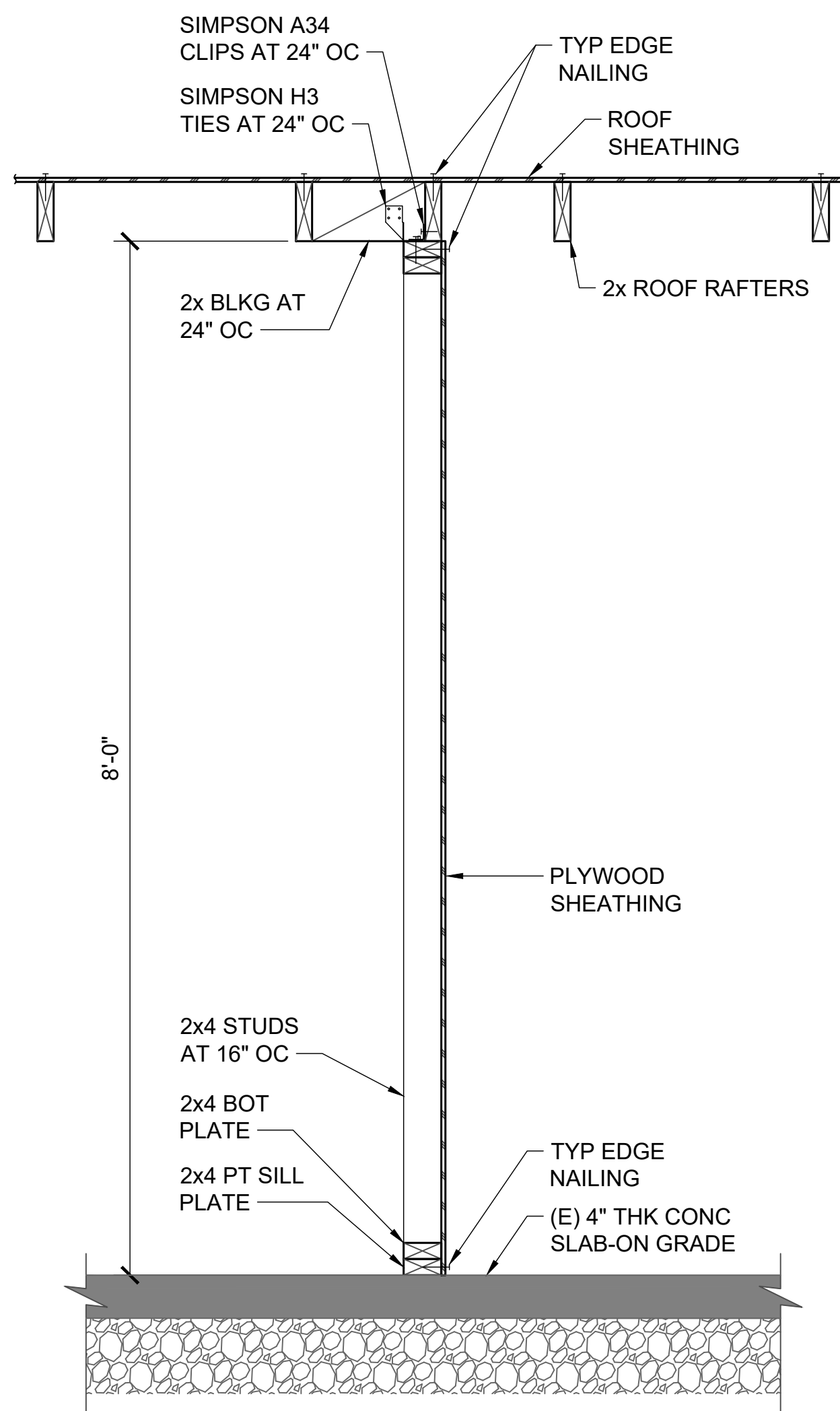
SHEET TITLE:

**FOUNDATION AND
ROOF FRAMING
PLANS**

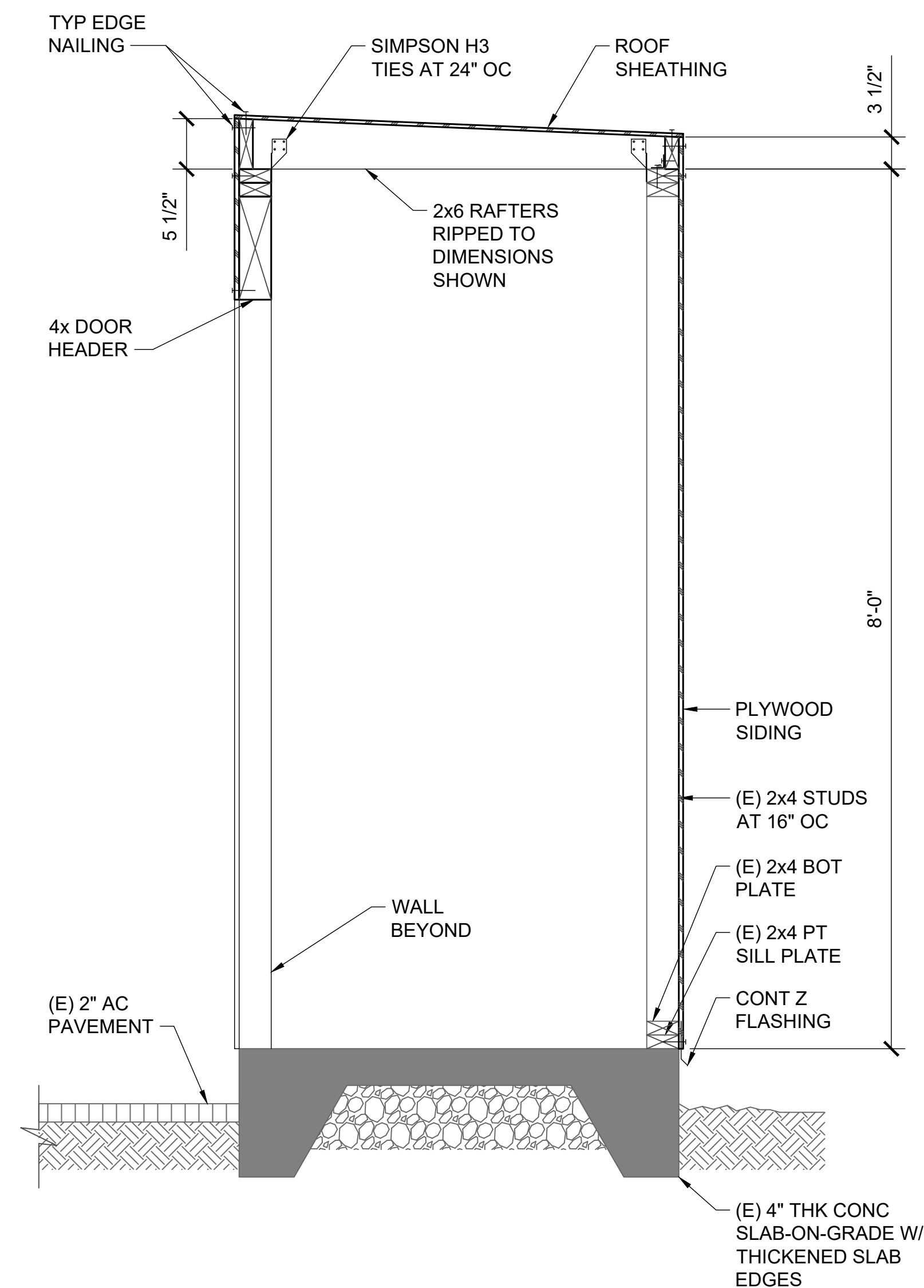
DATE :	DWG. NO.
MAY 7, 2026	S-101
SHEET :	
10 OF 14 SHEETS	



1 SECTION
S-301 SCALE: 1" = 1'-0"

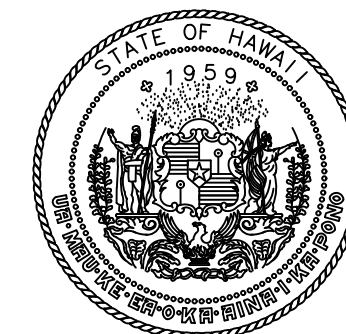
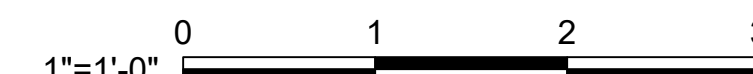


2 SECTION
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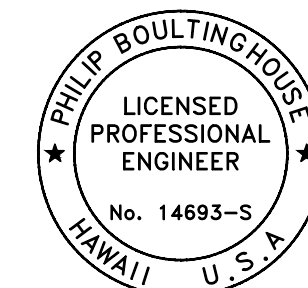


3 SECTION
S-301 SCALE: 1" = 1'-0"

GRAPHIC SCALES:



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DEPARTMENT OF TRANSPORTATION
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PB	MM	KL	PB

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CONSTRUCTION DOCUMENTS
MAY 2026
DATE

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UNICOM TOWER INSTALLATION

AT
KAWAIHAPAI AIRFIELD
MOKULEIA, OAHU, HAWAII

PROJECT NO.:

CO2541-33

SHEET TITLE:

WALL SECTIONS

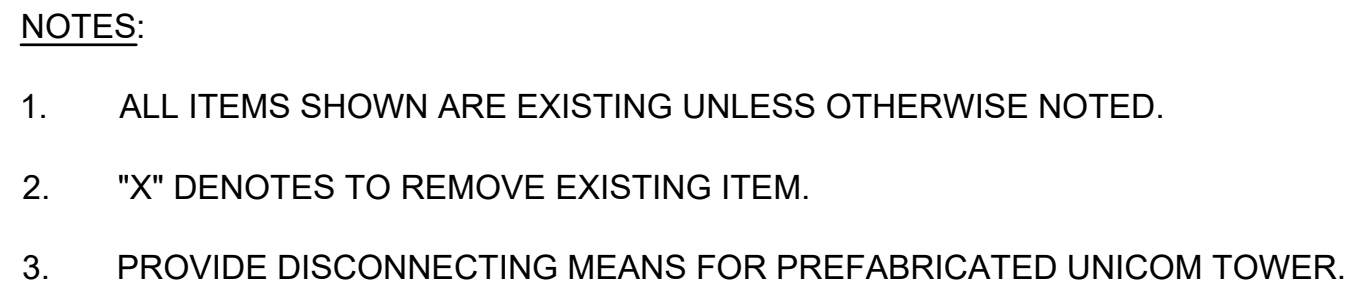
DATE :	DWG. NO.
MAY 7, 2026	S-301
SHEET :	
11 OF 14 SHEETS	

P:\HONOLULU\2541\2541-33\01 DGT-A\T023 GENERAL ENGINEERING-20.0 DWGS\SIDLINGHAM FIELD UNICOM TOWER\2541-33 S-301.DWG

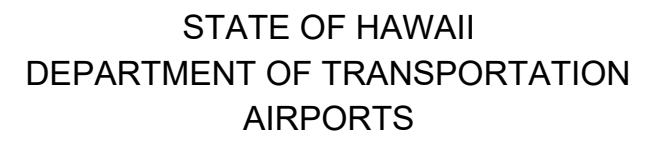
ELECTRICAL SYMBOLS	
SYMBOL	DESCRIPTION
	ELECTRICAL PANELBOARD
	DUPLEX RECEPTACLE, 125V, NEMA 5-20R
	RECEPTACLE, 250V, NEMA 6-20R
	TELECOMMUNICATIONS OUTLET
	EXISTING DUCTLINE
	CONDUIT, CONCEALED
	CONDUIT, EXPOSED

PROVIDE GREEN GROUND CONDUCTOR IN ALL NEW BRANCH AND FEEDER CIRCUITS INCLUDING LIGHT SWITCHING LEGS, SIZED PER NEC TABLE 250.122. ALL CONDUCTORS #12 AWG MINIMUM.

1. PLANS DO NOT INDICATE COMPLETE EXISTING ELECTRICAL CONDITIONS. CONTRACTOR SHALL VISIT JOBSITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND EXTENT OF ALL WORK PRIOR TO THE START OF CONSTRUCTION.
2. PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL VISIT JOBSITE AND REPORT ANY DISCREPANCIES AND/OR DIFFERENCE IN DRAWINGS, WITH RESPECT TO EXISTING CONDITIONS, TO THE STATE.
3. CONTRACTOR SHALL RESOLVE ALL DISCREPANCIES AND QUESTIONS PRIOR TO THE START OF WORK. NO EXTRA PAYMENT SHALL BE ALLOWED ON ACCOUNT OF WORK MADE NECESSARY BY CONTRACTOR'S FAILURE TO VISIT THE SITE AND/OR FAILURE TO RESOLVE DISCREPANCIES AND QUESTIONS.
4. BEFORE ANY ELECTRICAL WIRING IS CUT, CONTRACTOR SHALL VERIFY USAGE OF WIRING TO ENSURE THAT REQUIRED SERVICES ARE NOT DISCONTINUED.
5. FOR EXISTING CIRCUITS WHERE SOME ELECTRICAL ITEMS ARE REMOVED, CONTRACTOR SHALL PROVIDE ALL NECESSARY RACEWAYS, WIRES, BOXES, ETC., PER NEC REQUIREMENTS, TO ENSURE ELECTRICAL CONTINUITY AND PROPER OPERATION OF REMAINING CIRCUIT COMPONENTS.
6. ALL EXISTING LOADS ON THE EXISTING TOWER ELECTRICAL PANEL SHALL REMAIN IN SERVICE.
7. NEW UNICOM TOWER IS A PREFABRICATED STRUCTURE, COMPLETE WITH ALL ELECTRICAL DEVICES AND WIRING. COORDINATE ELECTRICAL AND TELECOM REQUIREMENTS WITH THE MANUFACTURER.
8. COORDINATE ALL OUTAGES WITH HDH AND FAA.



ONE-LINE DIAGRAM



DSGN.	DRWN.	CHKD.	APPD.
BHK	BHK	KKO	KKO

NO.	DATE	REVISIONS
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MAY 2026

DATE

UNICOM TOWER INSTALLATION

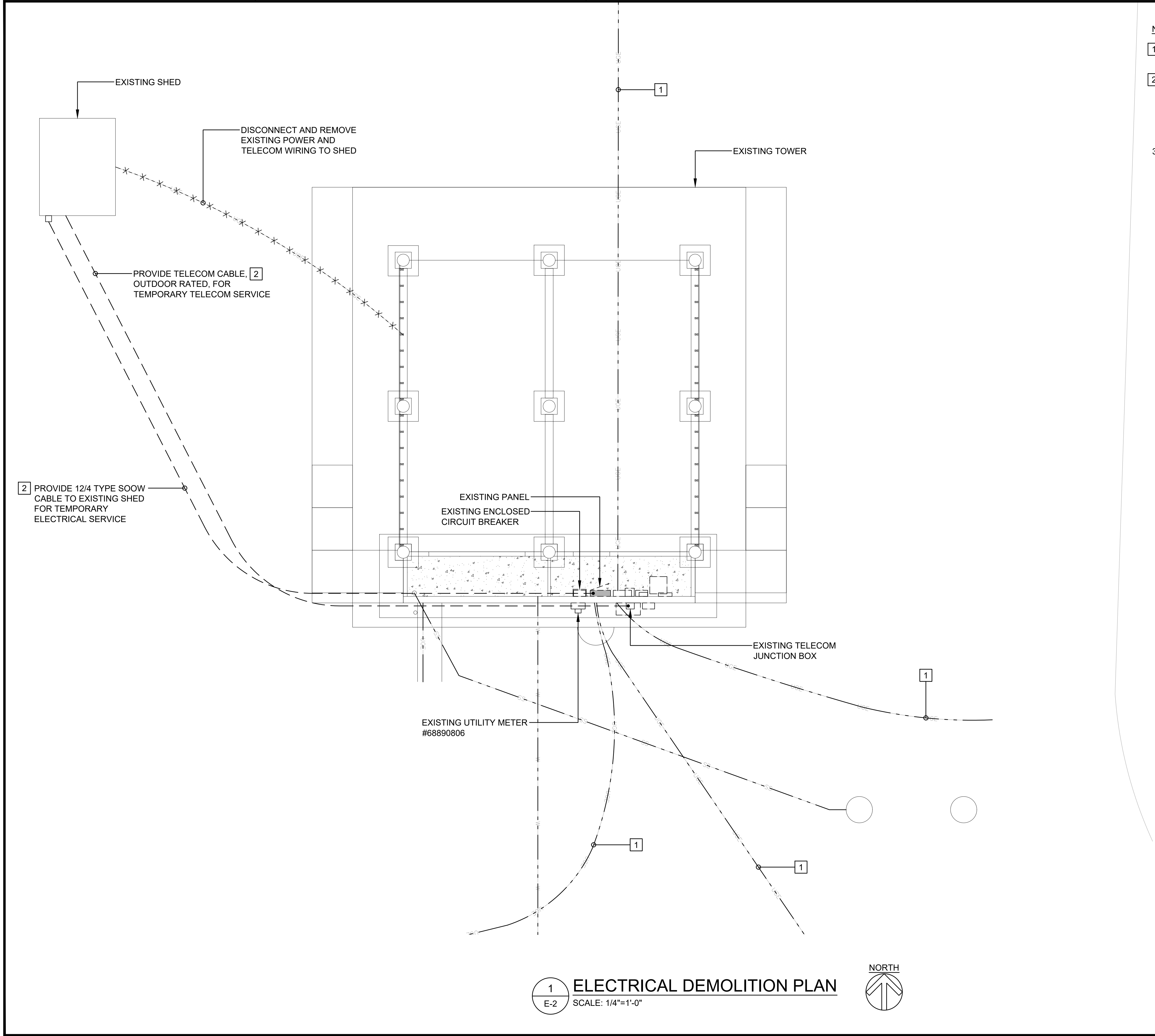
AT
KAWAIHAPAI AIRFIELD
MOKULEIA, OAHU, HAWAII

CO2541-33

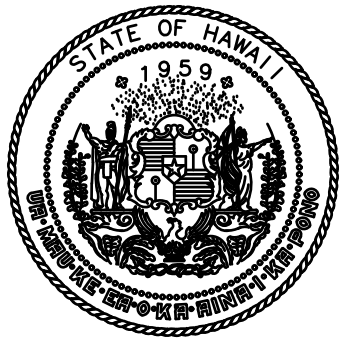
ELECTRICAL SYMBOLS

GENERAL NOTES

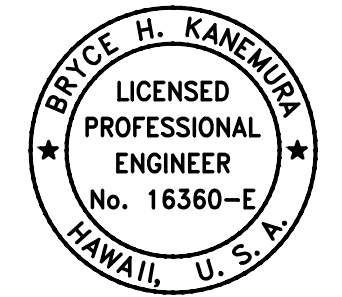
DATE :	DWG. NO.
MAY 7, 2026	E-1
SHEET :	
12 OF 14 SHEETS	



- NOTES:
- 1 EXISTING UNDERGROUND ELECTRICAL LINES TO REMAIN IN PLACE.
 - 2 PROVIDE HEAVY-DUTY MODULAR CABLE PROTECTION RAMP FOR TEMPORARY CABLES. RAMP SHALL HAVE MULTIPLE CHANNELS AND HIGH VISIBILITY MARKINGS. ELECTRICAL AND TELECOM CABLES SHALL BE INSTALLED IN SEPARATE CHANNELS.
 3. EXISTING SHED SHALL REMAIN OPERATIONAL AT ALL TIMES. ANY OUTAGES SHALL BE COORDINATED WITH HDH AND FAA.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS



Bryce H. Kanehika

04/30/2028
Licensed Expiration Date

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BHK	BHK	KKO	KKO

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CONSTRUCTION DOCUMENTS

MAY 2026
DATE

PROJECT TITLE :

UNICOM TOWER
INSTALLATION

AT
KAWAIHAPAI AIRFIELD
MOKULEIA, OAHU, HAWAII

PROJECT NO.:

CO2541-33

SHEET TITLE:

ELECTRICAL
DEMOLITION PLAN

DATE :

MAY 7, 2026

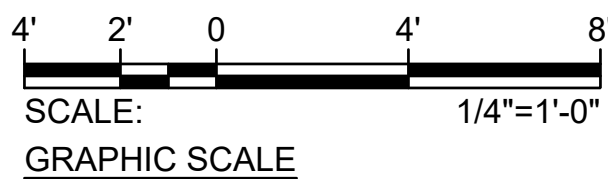
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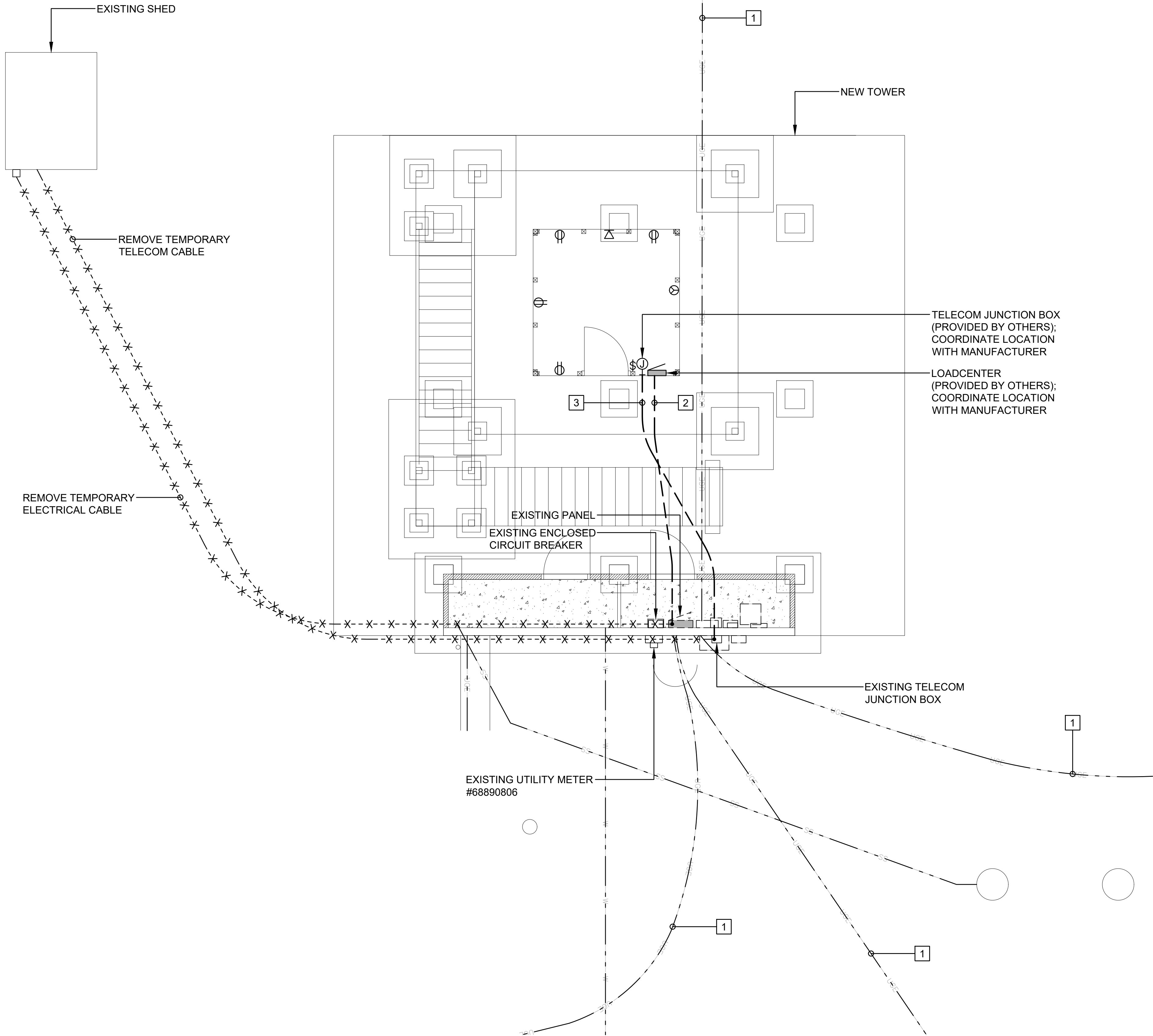
13 OF 14 SHEETS

DWG. NO.

E-2

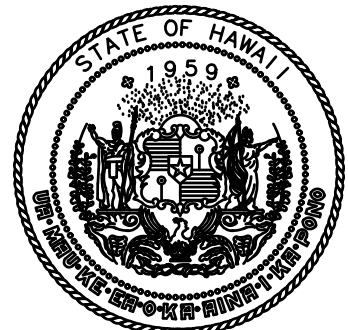
1
E-2
ELECTRICAL DEMOLITION PLAN
SCALE: 1/4"=1'-0"



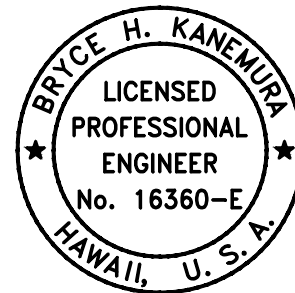


NOTES:

- 1 EXISTING UNDERGROUND ELECTRICAL LINES TO REMAIN IN PLACE.
- 2 3/4"C, 3#12, 1#12 GND. COORDINATE ELECTRICAL REQUIREMENTS WITH TOWER MANUFACTURER. PROVIDE CONDUIT SUPPORTS AS REQUIRED.
- 3 1"C, TELECOM CABLE. PROVIDE CONDUIT SUPPORTS AS REQUIRED.
4. NEW TOWER SHALL BE INSTALLED AND OPERATIONAL PRIOR TO DEMOLITION OF EXISTING SHED. ANY OUTAGES SHALL BE COORDINATED WITH HDH AND FAA.



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CONSTRUCTION
DOCUMENTS

MAY 2026
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KAWAIHAPAI AIRFIELD
MOKULEIA, OAHU, HAWAII

PROJECT NO.:

CO2541-33

SHEET TITLE:

ELECTRICAL PLAN

DATE :

MAY 7, 2026

SHEET :

14 OF 14 SHEETS

DWG. NO.

E-3

1 ELECTRICAL PLAN
E-3 SCALE: 1/4"=1'-0"

