

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
Land Division
Honolulu, Hawaii 96813

August 23, 2024

Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

PSF No.: 24MD-017

Maui

Issuance of Immediate Management Right-of-Entry and Set-Aside of Lands to the County of Maui for Existing Sewer Pump Station; Lower Honokowai, Lahaina, Maui, Tax Map Key No. (2) 4-4-001:094

APPLICANT:

County of Maui

LEGAL REFERENCE:

Sections 171-11 and -55, Hawaii Revised Statutes (HRS), as amended.

LOCATION:

Government lands situated at Lower Honokowai, Lahaina, Maui, further identified by Tax Map Key: (2) 4-4-001: 094, as shown on the attached map labeled Exhibit A.

AREA:

0.17 acre, more or less.

ZONING:

State Land Use District: Urban
County of Maui CZO: Residential

TRUST LAND STATUS:

Section 5(b) lands of the Hawaii Admission Act
DHHL 30% entitlement lands pursuant to the Hawaii State Constitution: NO

CURRENT USE STATUS:

Existing pump station and related amenities owned and operated by the County of Maui Department of Environmental Management.

PURPOSE OF SET-ASIDE:

Sewer Pump Station Purposes.

TERM OF RIGHT-OF-ENTRY:

Commencing upon Chairperson's execution of a Board-approved immediate management right-of-entry permit (ROE) to the County of Maui that shall expire in one year or upon execution of the set-aside of government lands by Governor's Executive Order for an existing sewer pump station, whichever shall first occur. The Chairperson will be authorized to continue the ROE for additional one-year periods for good cause shown.

CHAPTER 343 - ENVIRONMENTAL ASSESSMENT:

In accordance with Hawaii Administrative Rules (HAR) §§ 11-200.1-15 and -16 and the Exemption List for the Department of Land and Natural Resources reviewed and concurred on by the Environmental Council on November 10, 2020, the subject request is exempt from the preparation of an environmental assessment pursuant to General Exemption Type 1, that states, "Operations, repairs or maintenance of existing structures, facilities, equipment, or topographical features, involving negligible or no expansion or change of use beyond that previously existing," Part 1, Item 36, "Transfer of management authority over state-owned land, such as setting aside of state lands to or from other government agencies through a Governor's executive order."

The subject request is a de minimis action that will probably have minimal or no significant effect on the environment and should be declared exempt from the preparation of an environmental assessment and the requirements of § 11-200.1-17, HAR, as a de minimis action. The County of Maui shall be responsible for compliance with Chapter 343, HRS, to the extent applicable to its project.

REMARKS:

By letter dated September 5, 2023, the County of Maui has requested that the State of Hawaii set-aside land to continue the operation and maintenance of the Napili Pump Station #1, historically known as the Napili-Honokowai Sewage Pump Station #9.

The land is currently used for existing sewer pump station purposes and the County of Maui would like to maintain the usage of this area. There are no feasible options for relocation. The equipment on site is approaching the end of its useful life. Failure to

maintain and upgrade the pump station would be a catastrophe to public health. The County of Maui is currently designing upgrades to the equipment in order to maintain reliability. Research of Land Division records revealed that the County does not have an existing easement or executive order for use of state government lands.

Staff notes there is already C.S.F. map for the site dated August 10, 1981, prepared by the State of Hawaii, Survey Division: C.S.F. 19,361, map(s) and description(s) of Sewer Pump Station No. 9, Napili, Honokowai Sewage System.

RECOMMENDATION:

That the Board:

1. Declare that, after considering the potential effects of the proposed disposition as provided by Chapter 343, HRS, and Chapter 11-200.1-15, 11-200.1-16, HAR, this project will probably have minimal or no significant effect on the environment and is therefore exempt from the preparation of an environmental assessment as a de minimis activity.
2. Authorize the issuance of an immediate management right-of-entry permit to the County of Maui, covering the subject area under the terms and conditions cited above, which are by this reference incorporated herein and further subject to the following:
 - A. The standard terms and conditions of the most current right-of-entry permit form, as may be amended from time to time; and
 - B. Such other terms and conditions as may be prescribed by the Chairperson to best serve the interests of the State.
3. Approve of and recommend to the Governor the issuance of an executive order setting aside the subject lands to the County of Maui under the terms and conditions cited above, which are by this reference incorporated herein and subject further to the following:
 - A. The standard terms and conditions of the most current executive order form, as may be amended from time to time;
 - B. Disapproval by the Legislature by two-thirds vote of either the House of Representatives or the Senate or by a majority vote by both in any regular or special session next following the date of the setting aside;
 - C. Review and approval by the Department of the Attorney General;

and

- D. Such other terms and conditions as may be prescribed by the Chairperson to best serve the interests of the State.

Respectfully Submitted,



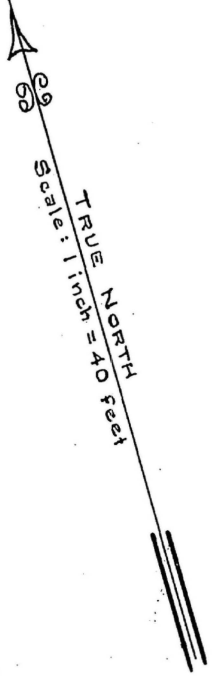
Ebony V. Butihi
Documentation Specialist

RT ~~KEM~~

APPROVED FOR SUBMITTAL:



Dawn N. S. Chang, Chairperson



HONOKOWAI SCHOOL LOT
(c.s.f. 7513)

HONOAPIILANI HIGHWAY

Napili

Lahaina

Lot 6

3445.57
2851.15
PUU KOLII A
(Manini)

10386 SQ. FT.

287° 48' → 108.87

197° 48' → 147.74

197° 04' → 21.76

37.75

48° 54' → 168.80

R.P. 5174, L.C. Aw. 4249 Ap. 2 to Kameeui

Conc. Mon.

R.P. 4204, L.C. Aw. 4242 Ap. 4 to Kaees

Conc. Mon.

45° 10' → 47.62

46.11

KAMEEUI PLACE

L.P. S-8531, L.C. Aw. 11216 Ap. 28 to Kekauonohi

SEWER PUMP STATION NO. 9
NAPILI-HONOKOWAI SEWAGE SYSTEM
Honokowai, Lahaina (Ka'anapali), Maui, Hawaii
Scale: 1 inch = 40 feet

JOB Ma-272 (81)
C. BK Wilder 10:120

EXHIBIT A1

TAX MAP 4-4-01:94 & Plan 26

SURVEY DIVISION
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES

C. S. F. No. 19361

STATE OF HAWAII

E.C.W. Jr. Aug. 10, 1981



STATE OF HAWAII

SURVEY DIVISION

DEPT. OF ACCOUNTING AND GENERAL SERVICES

HONOLULU

August 10, 1981

C.S.F. No. 19,361

SEWER PUMP STATION NO. 9

NAPILI-HONOKOWAI SEWAGE SYSTEM

Honokowai, Lahaina (Kaanapali), Maui, Hawaii

Being a portion of the Government (Crown) Land of Honokowai.

Being also all of Lot 7 and a portion of Lot 6 of Honokowai Government Remnants.

Beginning at the northwest corner of this parcel of land, the southwest corner of the remainder of Lot 6, Honokowai Government Remnants and on the east side of Honoapiilani Highway, the coordinates of said point of beginning referred to Government Survey Triangulation Station "PUU KOLII" (Manini) being 8445.57 feet North and 12,851.15 feet West, thence running by azimuths measured clockwise from True South:-

1. 287° 48' 108.87 feet along the remainder of Lot 6, Honokowai Government Remnants;
2. 45° 10' 46.11 feet along R.P. 4204, L.C.Aw. 4242, Ap. 4 to Kaaea to a concrete monument;
3. 48° 54' 168.80 feet along R.P. 5174, L.C.Aw. 4249, Ap. 2 to Kameeui;
4. 197° 04' 37.75 feet along the east side of Honoapiilani Highway;
5. 197° 48' 147.74 feet along the east side of Honoapiilani Highway to the point of beginning and containing an AREA OF 10,386 SQUARE FEET.

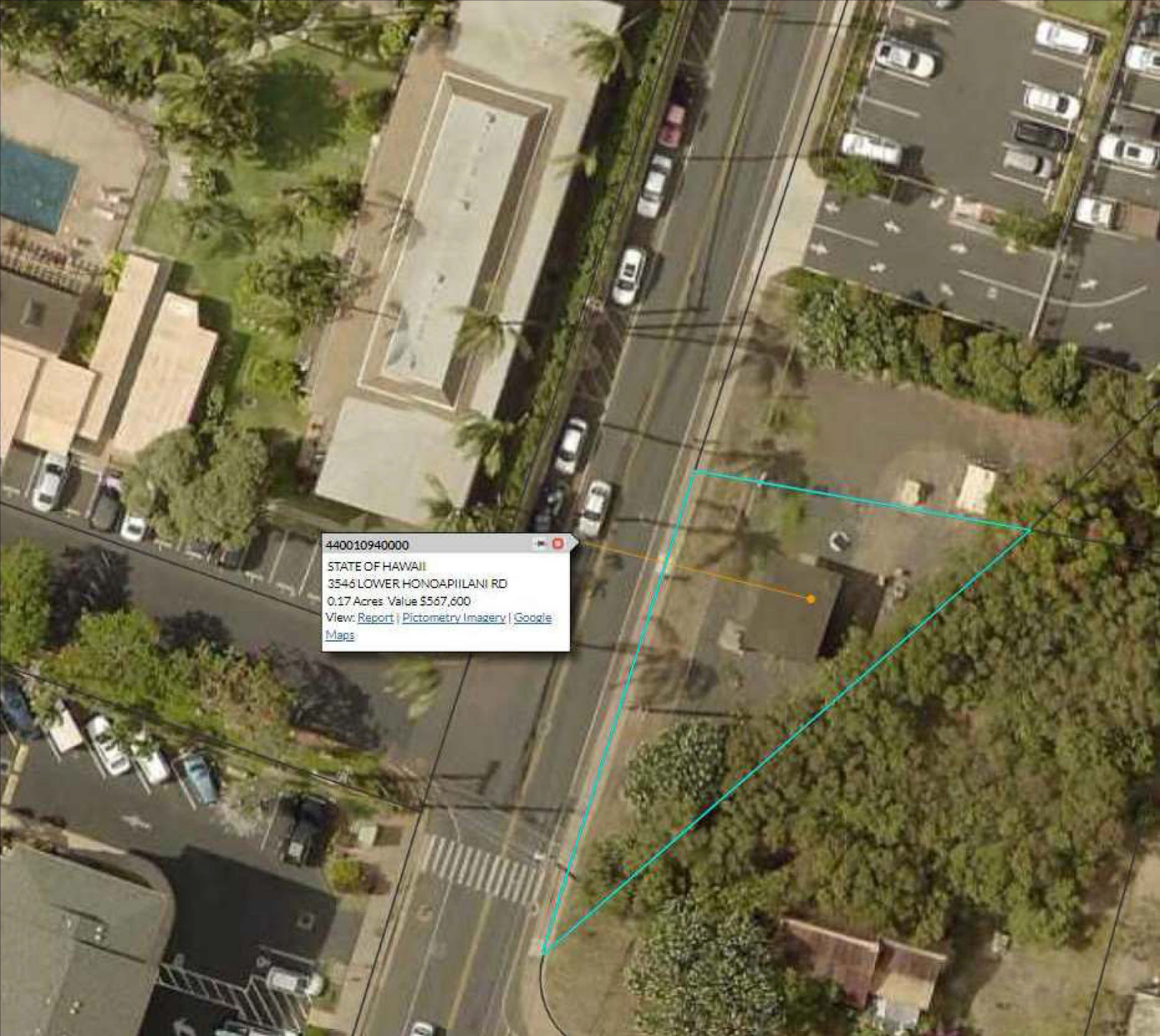
SURVEY DIVISION
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES
STATE OF HAWAII

By: Ellwood C. Wilder, Jr.
Ellwood C. Wilder, Jr.
Land Surveyor

Compiled from survey
by Park Eng., Inc. &
Govt. Survey Records.

vy

EXHIBIT A2



440010940000
STATE OF HAWAII
3546 LOWER HONDAPILANI RD
0.17 Acres Value \$567,600
[View: Report](#) | [Pictometry Imagery](#) | [Google Maps](#)

EXHIBIT B

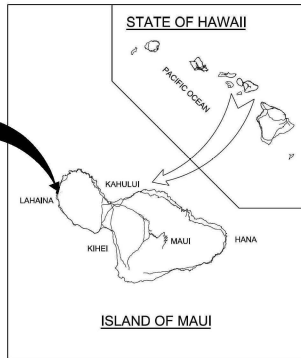
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT WASTEWATER RECLAMATION DIVISION COUNTY OF MAUI, HAWAII NAPILI NO. 1 PUMP STATION MODIFICATIONS JOB NO. WW22-004

PREPARED BY:

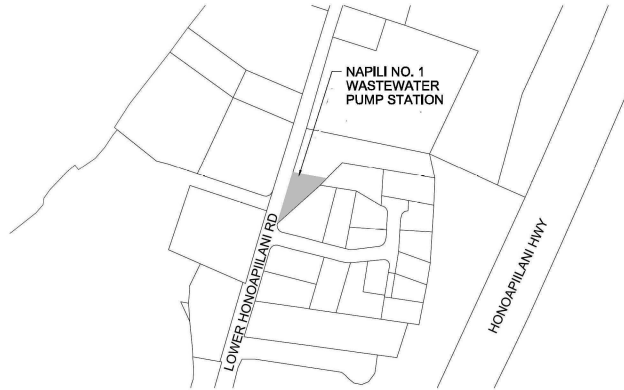
Jacobs

1003 BISHOP STREET, SUITE 1340
HONOLULU, HAWAII 96813

PROJECT LOCATION
NAPILI NO. 1
WASTEWATER
PUMP STATION



N
↑
LOCATION MAP
NTS



N
↑
VICINITY MAP - MAUI
NTS

APPROVALS

CHIEF, ENVIRONMENTAL MANAGEMENT DIVISION DEPARTMENT OF HEALTH STATE OF HAWAII	DATE	DIRECTOR, DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, COUNTY OF MAUI	DATE
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SPWURL

SPWPATH

EXHIBIT C

Jacobs	
GENERAL COVER SHEET	
ENVIRONMENTAL MANAGEMENT DIVISION COUNTY OF MAUI, HAWAII NAPILI NO. 1 WASTEWATER RECLAMATION DIVISION COUNTY OF MAUI, HAWAII MAUI-HONOKAHI MAUI, HAWAII	REVISIONS TO DOCUMENT: 1. REVISIONS TO THE BEST AVAILABLE DATA FOR THE WASTEWATER PUMP STATION MODIFICATIONS PROJECT.
DATE: DECEMBER 2023 PROJ: D3860100 CWS: 001-G-0001 SHEET: 1 OF 1	VERIFIED SCALE: AS SHOWN ON THIS SHEET ORIGINAL SCALE: 1" = 100'
REVISIONS TO DOCUMENT: 1. REVISIONS TO THE BEST AVAILABLE DATA FOR THE WASTEWATER PUMP STATION MODIFICATIONS PROJECT.	100% DESIGN SUBMITTAL

FILENAME: 001-G-0001_D3860100.dgn

PLOT DATE: 12/13/2023

PLOT TIME: 1:41:08 PM

GENERAL SITE NOTES:

- SOURCE OF TOPOGRAPHY SHOWN ON THE CIVIL PLANS ARE BASE MAPS PREPARED BY CONTROL POINT SURVEY, INC. DATED DECEMBER 20, 2022. ADDITIONAL MAPPING HAS BEEN ADDED FROM DATA AND SUPPLEMENTARY SURVEY FROM THE COUNTY OF MAUI. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ADJUST WORK PLAN ACCORDINGLY PRIOR TO BEGINNING CONSTRUCTION.
- EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED, UNLESS OTHERWISE NOTED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINE, UNLESS OTHERWISE NOTED.
- SURVEY HORIZONTAL DATUM, AZIMUTHS AND COORDINATES ARE REFERRED TO LOCAL GOVERNMENT SURVEY TRIANGULATION STATION "MANNAI PULU KOUJI".

SURVEY CONTROL POINT DESCRIPTION	ELEVATION (FEET)	NORTHING	WESTING
STA. 70 MAG NAIL	6.72	8,426.76	12,868.24
ST. MCR	7.28	8,244.30	12,932.66
- SURVEY VERTICAL DATUM: LOCAL STREET MONUMENT, TOP OF BRASS PIN, EL. = 27.27 FT., MSL LOCATED AT THE INTERSECTION OF HONOPILANI HIGHWAY AND LOWER HONOPILANI ROAD WITH N 8,286.74 AND W 13,099.63.
- MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
- FOR LOCATION OF CONTROL POINT ON STRUCTURES, SEE DRAWING 050-G-0001.
- COORDINATES AND DIMENSIONS SHOWN FOR ROADWAY IMPROVEMENTS ARE TO FACE OF CURB OR EDGE OF PAVEMENT.
- STAGING AND STOCKPILE AREAS SHALL BE FOR CONTRACTOR'S EMPLOYEE PARKING, CONTRACTOR'S TRAILERS AND ON-SITE STORAGE OF MATERIALS.
- PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SECURITY AT ALL TIMES.
- ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
- SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION CONTROL DEVICES DURING CONSTRUCTION. EROSION CONTROL DEVICES SHOWN ON DRAWINGS 050-G-2002 AND 050-G-2003 ARE THE MINIMUM REQUIRED.
- CONTRACTOR SHALL TAKE ALL OTHER MEASURES TO POSITIVELY PRECLUDE EROSION MATERIALS FROM LEAVING THE SITE. CONTRACTOR TO SUBMIT EROSION CONTROL PLAN.

GENERAL YARD PIPING AND UTILITIES NOTES:

- EXISTING UNDERGROUND UTILITIES OBTAINED FROM AS-BUILTS AND FROM FIELD SURVEY. CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION PRIOR TO EXCAVATION. PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
- FOR PIPING FLOW STREAM IDENTIFICATION, SEE PIPING SCHEDULE ON DRAWING 050-G-0019 AND SPECIFICATIONS.
- EXISTING PIPING AND EQUIPMENT ARE SHOWN SCREENED AND/OR LIGHT-LINED, UNLESS OTHERWISE NOTED. NEW PIPING AND EQUIPMENT ARE SHOWN HEAVY-LINE UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE SHOWN ALL PIPING LESS THAN 4 INCH SHALL HAVE A MINIMUM 2.5- FOOT COVER AND ALL PIPING 6 INCH AND LARGER SHALL HAVE A MINIMUM 4-FOOT OF COVER.
- ALL PIPES SHALL HAVE A CONSTANT SLOPE BETWEEN INVERT ELEVATIONS UNLESS A FITTING IS SHOWN.
- ALL NEW WATER PIPES MUST BE PROPERLY FLUSHED, PRESSURE TESTED, CHLORINATED AND BACTERIOLOGICALLY TESTED, AS SPECIFIED.
- FOR TRENCHING AND BACKFILL, SEE (3123-110) AND SPECIFICATIONS.
- FOR SURFACE RESTORATION OF ASPHALT CONCRETE, SEE (015-401) AND SPECIFICATIONS.
- MINIMUM ALLOWABLE CLEARANCE BETWEEN PIPES AT CROSSINGS SHALL BE 6" WHERE CLEARANCE IS LESS THAN 12" FOR ALL UTILITIES OTHER THAN SEWER, AND WHERE CLEARANCE IS LESS THAN 18" BETWEEN WATER AND SEWER PIPES. CONTROLLED LOW STRENGTH MATERIAL IS REQUIRED AS SHOWN IN (3123-120) AND SPECIFICATIONS.

GENERAL NOTE:

- THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE INFORMATION SHOWN MAY BE USED ON THIS PROJECT.

FLOOD INSURANCE RATE MAP (FIRM) DATA:

ZONE: AE, X
 BASE FLOOD ELEVATION: 10 FEET
 NFP FEMA MAP NO.: 1500030351F

CIVIL LEGEND

		SPOT ELEVATION
		CONTOUR LINE
		EMBANKMENT AND SLOPE
		DRAINAGE WAY OR DITCH
		CATCH BASIN OR INLET
		TRENCH DRAIN
		SIGN
		MANHOLE
		ELECTRICAL MANHOLE
		ELECTRIC HANDHOLE
		POST OR GUARD POST
		GUY ANCHOR
		FIRE HYDRANT
		UTILITY POLE
		LIGHT POLE
		BENCH MARK
		SURVEY CONTROL POINT OR POINT OF INTERSECTION
		BRUSH/TREE LINE
		TREE
		PROPERTY LINE
		CENTER LINE, BUILDING, ROAD, ETC.
		STAGING OR WORK AREA LIMITS
		STRUCTURE, BUILDING OR FACILITY LOCATION POINT - COORDINATES
		BORING LOCATION AND NUMBER
		TEST PIT LOCATION AND NUMBER
		PIEZOMETER LOCATION AND NUMBER
		DEMOLITION
		STRUCTURE, BUILDING OR FACILITY
		ASPHALT CONCRETE PAVEMENT
		GRAVEL SURFACING
		CONCRETE PAVEMENT
		CURB
		CURB AND GUTTER
		SINGLE SWING GATE
		DOUBLE SWING GATE
		SLIDING GATE
		GUARD RAIL
		CHAIN LINK FENCE
		ARCHITECTURAL FENCE
		WIRE FENCE
		CULVERT

YARD PIPING LEGEND

		NOMINAL PIPE DIAMETER
		PIPE USE IDENTIFICATION
		PIPING < 30" DIAMETER
		PIPING >= 30" DIAMETER
		EXISTING PIPE TO BE ABANDONED
		EXISTING PIPE TO BE REMOVED
		NON-FREEZE HOSE VALVE (X-X) X = NO. IN SPECIFICATIONS
		NON-FREEZE HOSE VALVE WITH HOSE RACK (X-X) X = NO. IN SPECIFICATIONS
		INDICATOR POST VALVE
		GATE VALVE AND VALVE BOX
		BUTTERFLY VALVE AND VALVE BOX
		PLUG VALVE AND VALVE BOX
		FLEXIBLE COUPLING
		90° ELBOW UP
		90° ELBOW DOWN
		BEND < 90°
		BEND > 90°
		CONCENTRIC REDUCER
		CAP OR PLUG
		CLEANOUT
		FIRE HYDRANT

EROSION CONTROL LEGEND

		COVER PRACTICES
		TEMPORARY SEEDING
		MULCHING AND MATTING
		CLEAR PLASTIC COVERING
		BUFFER ZONES
		PERMANENT SEEDING AND PLANTING
		CONSTRUCTION ENTRANCE
		INTERCEPTOR DIKE
		INTERCEPTOR SWALE
		CHECK DAMS
		OUTLET PROTECTION / RIPRAP
		FILTER FENCE
		STRAW BALE BARRIER (BIOFILTER)
		SEDIMENT TRAP (OR SUMP)
		SEDIMENT POND OR BASIN

UNIVERSITY OF HAWAII HONOLULU, HAWAII COUNTY OF MAUI, HAWAII MAUI-HONOKAIAI MAUI, HAWAII		REVISION DATE BY CHECKED APPROVED M. MAZUMDAR S. CHAMBERLIN
GENERAL CIVIL LEGEND		100% DESIGN SUBMITTAL
VERIFIED SCALE EITHER ONE EACH OR ORIGINAL DRAWINGS		DATE: DECEMBER 2023 PROJ: D3680100 DWG: 050-G-0009 SHEET: 11

DESIGN CRITERIA

- 1. APPLICABLE CODES: 2012 INTERNATIONAL BUILDING CODE, IRC, AS AMENDED BY THE COUNTY OF MAUI AND ALL OTHER APPLICABLE LOCAL AGENCIES, 2012 IBC, ASCE 7-10, ACI 318-11, ACI 308-08, TMS 402-11, ASCE 360-10.
2. REFER TO THE DRAWINGS FOR ADDITIONAL AND SPECIFIC STRUCTURE LOADINGS AND REQUIREMENTS.
3. ALL LOADS SHOWN ARE SERVICE LEVEL (UNFACTORED) UNLESS SPECIFICALLY NOTED OTHERWISE.
4. DEAD LOADS:
A. SELF WEIGHT
5. FLOOR/LIVE LOADS:
ELECTRICAL ROOM 300 PSF
WALKWAYS AND ELEVATED PLATFORMS AND SLABS 100 PSF
6. WIND LOADS:
ASCE 7 METHOD
BASIC WIND SPEED (3-SECOND GUST) = 145 MPH
EXPOSURE CATEGORY: C
INTERNAL PRESSURE COEFFICIENT, GQM = SEE PLANS
RISK CATEGORY: II
IMPORTANCE FACTOR, Iw = 1.0
7. SEISMIC LOADS:
MAPPED SPECTRAL RESPONSE ACCELERATIONS: Sa = 0.315g, Sd = 0.228g
DESIGN SPECTRAL RESPONSE ACCELERATIONS: Sds = 0.691g, Sd1 = 0.299g
SITE CLASS: D
SEISMIC DESIGN CATEGORY: I
IMPORTANCE FACTOR, Ie = 1.25
8. WATER BEARING STRUCTURES HAVE BEEN ANALYZED USING ACI 308.3 AS MODIFIED BY 7-10.
9. HYDRAULIC LOADS: SEE PLANS FOR STRUCTURE SPECIFIC DESIGN FLOOD ELEVATIONS, FLUID LOAD BASED ON FLUID DENSITY OF 62.4 PCF
10. SOIL DESIGN PARAMETERS:
A. NET ALLOWABLE SOIL BEARING PRESSURES: 5000 PSF
B. GROUND WATER (GW) ELEVATION: EL 5.0
NORMAL HIGH GW: EL 11.6
100 YEAR FLOOD: EL 11.6
C. EQUIVALENT UNDRAINED FLUID PRESSURES (ABOVE GW): 88 PCF
AT REST: 209 PCF
PASSIVE: 169 PCF
D. EQUIVALENT UNDRAINED FLUID PRESSURES (BELOW GW): 88 PCF
AT REST: 209 PCF
PASSIVE: 169 PCF
WHERE H IS HEIGHT OF SOIL ADJACENT TO THE WALL, Z IS 7 FT OF SOIL WEIGHT
E. EARTH PRESSURE COEFFICIENTS: K1 = 0.5, K2 = 1.25
G. FACTOR OF SAFETY FOR UPLIFT RESISTANCE (SOIL FRICTION AND WEDGE FAILURE NOT CONSIDERED): FOS = 1.25
100 YEAR FLOOD ELEVATION: FOS = 1.10

GENERAL INFORMATION

- 1. FOR ABBREVIATIONS NOT LISTED, SEE ASME Y14.38 "ABBREVIATIONS AND ACRONYMS: PUBLICATION AS DISTRIBUTED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).
2. DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT.
3. VERIFY FINAL OPENING DIMENSIONS IN WALLS, SLABS, AND DECKS WITH OTHER DISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION OF THESE ELEMENTS.
4. FOR NUMBER, TYPE, SIZE, ARRANGEMENT AND/OR LOCATION OF EQUIPMENT PADS, SEE OTHER DISCIPLINE DRAWINGS. COORDINATE WITH EQUIPMENT SUPPLIER PRIOR TO PLACING SLABS, WALLS AND FOUNDATIONS. COORDINATE PIPING OPENINGS WITH OTHER DISCIPLINE DRAWINGS.
5. DO NOT CUT OR MODIFY STRUCTURAL MEMBERS FOR PIPES, DUCTS, ETC., UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.
6. VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT ENGINEER IS GUARANTOR OF CONTRACTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, OR SAFETY AT THE JOB SITE.
7. INFORMATION DETAILING, DIMENSIONS, CONFIGURATIONS, AND ELEVATIONS, ETC.) OF EXISTING CONSTRUCTION SHOWN REFLECTS AVAILABLE EXISTING DESIGN DOCUMENTS, AND DOES NOT NECESSARILY REPRESENT THE AS-CONSTRUCTED CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, ELEVATIONS AND DETAILING OF THE EXISTING STRUCTURES PRIOR TO UNDERSTANDING ANY WORK THAT IS AFFECTED BY THE EXISTING STRUCTURE, NOTIFY ENGINEER IF CONDITIONS VARY FROM THAT SHOWN PRIOR TO STARTING WORK.

INSPECTION AND TESTING

- 1. SPECIAL INSPECTION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR INSPECTIONS REQUIRED BY THE BUILDING OFFICIAL. THE CONTRACTOR SHALL SCHEDULE BOTH INSPECTIONS.
2. SPECIFIED CONCRETE AND MASONRY AND OTHER MATERIAL TESTING REQUIRED TO SPECIAL INSPECTION DURING CONSTRUCTION WILL BE OWNER FUNDED.
3. SPECIFIED LABORATORY TEST MIXES AND SMALL TEST RESULTS TO VERIFY MATERIAL QUALITY AND COMPLIANCE TO SPECIFICATIONS, AND SUBMITTED FOR REVIEW PRIOR TO ACCEPTANCE FOR USE ON THE PROJECT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. SPECIAL INSPECTION, TESTING AND OBSERVATION (OWNER FUNDED) IS REQUIRED IN ACCORDANCE WITH IBC SECTIONS 110 AND 1704 AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTIONS.

FOUNDATIONS

- 1. REFER TO GEOTECHNICAL DATA REPORT "PUMP STATION 1 - NAPILI SEWER FORCE MAIN REPLACEMENT W.O. EROSION BY GEOLARBS, INC DATED 2008.
2. EXCAVATIONS SHALL BE SHORED TO PREVENT SUBSIDENCE AND DAMAGE TO ADJACENT EXISTING STRUCTURES, ROADS, UTILITIES, ETC.
3. FOUNDATION SLABS AND SLABS-ON-GRADE SPECIFICALLY NOTED TO BE ON FILL SHALL BEAR ON FOUNDATION BEARING SURFACES SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER OR QUALIFIED DESIGNEE PRIOR TO PLACEMENT OF FORMWORK OR REINFORCING STEEL. THE OBSERVATION SHALL VERIFY IF THE ACTUAL EXPOSED SUBGRADE IS AS ANTICIPATED BY THE SITE SPECIFIC AND DATA REPORTS.
5. NO BACKFILL SHALL BE PLACED BEHIND WALLS UNTIL THE WALL'S CONCRETE HAS ATTAINED 100 PERCENT TOP SUPPORTING SLABS CONCRETE HAS ATTAINED 80 PERCENT OF THEIR SPECIFIED 28 DAY COMPRESSIVE STRENGTH. ON LIMIT, TOP-OF-WALL FRAMING SYSTEM, INCLUDING STEEL OR WOOD DIAPHRAGMS, HAVE BEEN COMPLETED.
6. NO BACKFILL SHALL BE PLACED BEHIND CANTILEVERED, FREE TOP WALLS UNTIL THE CONCRETE HAS ATTAINED 100 PERCENT OF ITS SPECIFIED 28 DAY COMPRESSIVE STRENGTH.
7. USE OF EXPLOSIVES IS ONLY ALLOWED WITH WRITTEN PERMISSION FROM ENGINEER.

FORMWORK, SHORING, AND BRACING

- 1. STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. DESIGN SHOWN DOES NOT INCLUDE NECESSARY COMPONENTS OR EQUIPMENT FOR STABILITY OF THE STRUCTURES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR WORK RELATING TO CONSTRUCTION ERECTION METHOD, BRACING, SHORING, BRACING, GUYING, SCAFFOLDING, FORMWORK, AND OTHER WORK AS REQUIRED TO SAFELY PERFORM THE WORK SHOWN.
2. TEMPORARY SHORING SHALL REMAIN IN PLACE UNTIL ELEVATED CONCRETE FLOOR OR SLAB HAVE REACHED 80 PERCENT OF THE 28 DAY COMPRESSIVE STRENGTH AS DETERMINED BY FIELD CYLINDER BREAKS.
3. "BURY" BARS OR "CARRIER" BARS ARE NOT ALLOWED FOR THE BOTTOM MATS OF REINFORCING IN ALL ELEVATED SLABS AND ARE NOT ALLOWED FOR THE TOP MATS OF REINFORCING IN ELEVATED SLABS LESS THAN 12 INCHES THICK.

CONCRETE REINFORCING

- 1. REINFORCING STEEL:
TYPICAL: ASTM A615, GRADE 60
WELDED: ASTM A706, GRADE 60 (WELDING IS ONLY PERMITTED WITH WRITTEN PERMISSION FROM ENGINEER)
2. FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI MSP-1 "MANUAL OF STANDARD PRACTICE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
3. FOR REINFORCED CONCRETE FRAME MEMBERS AND DESIGNATED BOUNDARY ELEMENTS OF CONCRETE SHEAR WALL STRUCTURES, REINFORCING STEEL SHALL MEET THE FOLLOWING REQUIREMENTS:
A. ACTUAL YIELD STRENGTH BASED ON WALL TESTS SHALL NOT EXCEED SPECIFIED YIELD STRENGTH BY MORE THAN 18.00 PERCENT. RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3.00 PERCENT.
B. RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO ACTUAL TENSILE YIELD STRENGTH SHALL NOT BE LESS THAN 1.25.
4. MINIMUM REINFORCING FOR CONCRETE WALLS AND SLABS SHALL BE AS FOLLOWS:
THICKNESS REINFORCING LOCATION
8" #4 @ 12" CENTERS
10" #4 @ 12" CENTERS
12" #4 @ 12" EACH FACE
PROVIDE LARGER SIZES AND MORE REINFORCING IN SECTIONS OF CONCRETE WHERE REQUIRED BY THE DETAILS ON THE DRAWINGS OR BY THE SPECIFICATIONS.
5. CONCRETE COVER FOR REINFORCING, UNLESS SHOWN OTHERWISE, SHALL BE:
WHEN CAST AGAINST EARTH: 3"
EXPOSED TO OZONE OR OCEANIZED WATER: 3"
INTERIOR DRY, HUMIDITY CONTROLLED AREAS: 3/4"
WALLS, SLABS AND JOISTS: 3/4"
BEAM STRUTS AND COLUMN TIES: 1 1/2"
CONCRETE EXPOSED TO EARTH, LIQUID, WASH-DOWN, OR WEATHER: 3"
WALLS AND SLABS: 2"
BEAM STRUTS AND COLUMN TIES: 2"
BEAM AND COLUMN PRIMARY REINFORCING: 2 1/2"
6. REFER TO WALL CORNER AND WALL INTERSECTION REINFORCING DETAIL 0309-026. WALL CORNER REINFORCING SIZES AND SPACINGS SHALL BE AS SHOWN ON THE DRAWINGS AND REFERENCED TO THIS DETAIL. TYPICAL HORIZONTAL WALL REINFORCING SHALL LAP WITH THE CORNER HORIZONTAL REINFORCING.
7. 90 DEGREE BENDS, UNLESS OTHERWISE SHOWN, SHALL BE ACI 318 STANDARD HOOKS.
8. WALL CORNER AND WALL INTERSECTION REINFORCING BARS SHALL BE CONTINUOUS AROUND CORNERS AND THROUGH COLUMNS OR PLASTERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING WALLS, AS INDICATED IN DETAIL 0309-026.
9. WALL FOOTING CORNER AND INTERSECTION REINFORCING BARS SHALL BE EXTENDED INTO CONNECTING FOOTINGS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING FOOTING. OUTSIDE FACE WALL FOOTING REINFORCEMENT SHALL BE LAPPED WITH CORNER BARS. ALL WALL FOOTING REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLUMNS OR PLASTER FOOTINGS.
10. LAP VERTICAL WALL BARS WITH DOWELS FROM BASE SLABS AND EXTEND INTO TOP FACE OF ROOF SLABS AND LAP WITH TOP SLAB REINFORCEMENT. PROVIDE A MINIMUM OF FOUR WALL VERTICAL BARS WITH MATCHING DOWELS AT WALL ENDS, CORNERS AND INTERSECTIONS WITH SIZE TO MATCH TYPICAL VERTICAL REINFORCING STEEL SHOWN OR REQUIRED BY NOTES ABOVE.
11. LOCATE ELEVATED SLAB AND BEAM TOP BAR SPLICES AT MIDSPAN AND BOTTOM BAR SPLICES AT SUPPORTS.

- 12. REINFORCING STEEL FOR FOOTINGS AND SLABS ON GRADE SHALL BE ADEQUATELY SUPPORTED ON BAR SUPPORTS WITH SPACERS TO KEEP REINFORCING ABOVE THE PREPARED GRADE. LIFTING REINFORCING OFF GRADE DURING CONSTRUCTION IS NOT PERMITTED.
13. REFER TO OPENING REINFORCING DETAILS 0306-001 AND 0305-002.
14. REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS:

Table with 2 columns: BAR SIZE and LAP SPACING LENGTH. Rows include SPACING 3" and SPACING 4" for TOP BAR and OTHER BAR, and EMBEDMENT LENGTH for SPACING 3" and SPACING 4".

- 1. LAP LENGTHS ARE BASED ON MINIMUM CONCRETE COVER OF 2". LONGER LENGTHS ARE REQUIRED FOR CONCRETE COVER LESS THAN 2".
2. TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 18 INCHES OF CONCRETE COVER THE MEMBER BELOW THE BAR IN ANY SINGLE FOUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.
3. WHERE 3600 PSI CONCRETE IS USED, INCREASE ABOVE LENGTHS BY 18 PERCENT, WHERE 3000 PSI CONCRETE IS USED, INCREASE ABOVE LENGTHS BY 7 PERCENT.

CAST IN PLACE CONCRETE

- 1. 28-DAY COMPRESSIVE STRENGTHS (TO MEET STRUCTURAL STRENGTH REQUIREMENTS):
HYDRAULIC STRUCTURES: 4000 PSI
BUILDING STRUCTURES: 4000 PSI
WALL, SLURRY MIXTURE: SAME AS WALL CONCRETE
CONCRETE FILL: 3000 PSI
CURBS AND SIDEWALKS: 3000 PSI
DUCT BANKS AND PIPE ENCASEMENTS: 3000 PSI
NOT INTEGRAL WITH FOUNDATIONS: 4000 PSI
2. 56-DAY COMPRESSIVE STRENGTHS (TO MEET DURABILITY REQUIREMENTS OF ACI 318 AND ACI 309):
HYDRAULIC STRUCTURES: 4000 PSI
BUILDING STRUCTURES: 4000 PSI
CONCRETE FILL: 4000 PSI
CURBS AND SIDEWALKS: 4000 PSI
DUCT BANKS AND PIPE ENCASEMENTS: 4000 PSI
NOT INTEGRAL WITH FOUNDATIONS: 4000 PSI
3. DESIGN STRENGTHS ARE SAME AS 28-DAY COMPRESSIVE STRENGTHS.
4. CONTINUOUS WATERSTOP AS SPECIFIED SHALL BE INSTALLED IN CONNECTION JOINTS OF HYDRAULIC STRUCTURES, CHANNELS, AND BELOW GRADE STRUCTURES, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
5. CONSTRUCTION JOINTS INDICATED ARE SUGGESTED LOCATIONS. CONTRACTOR MAY REVISE LOCATION OF JOINTS, SUBJECT TO SPECIFIED REQUIREMENTS. LAYOUT SHOWING ALL CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED FOR REVIEW BY ENGINEER.
6. ROUGHEN AND CLEAN CONSTRUCTION JOINTS IN WALLS AND SLABS AS SPECIFIED PRIOR TO PLACING ADJACENT CONCRETE.
7. COORDINATE PLACEMENT OF OPENINGS, PIPE PENETRATIONS, CURBS, DOWELS, SLEEVES, CONDUITS, BOLTS AND INSERTS PRIOR TO PLACEMENT OF CONCRETE.
8. NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE SHALL BE EMBEDDED IN THE CONCRETE.
9. DO NOT PLACE CONDUIT PARALLEL TO BEAM OR COLUMN REINFORCEMENT UNLESS SPECIFICALLY INDICATED IN DRAWINGS.
10. PATCH FORM THE HOLES IN ACCORDANCE WITH DETAILS 0310-051 AND/OR 0310-052.

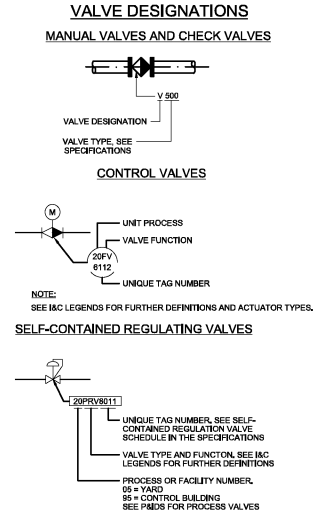
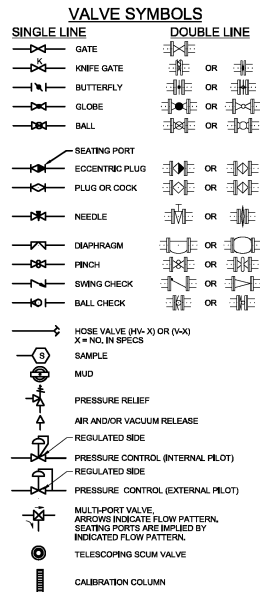
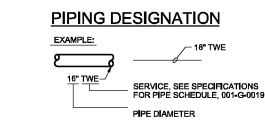
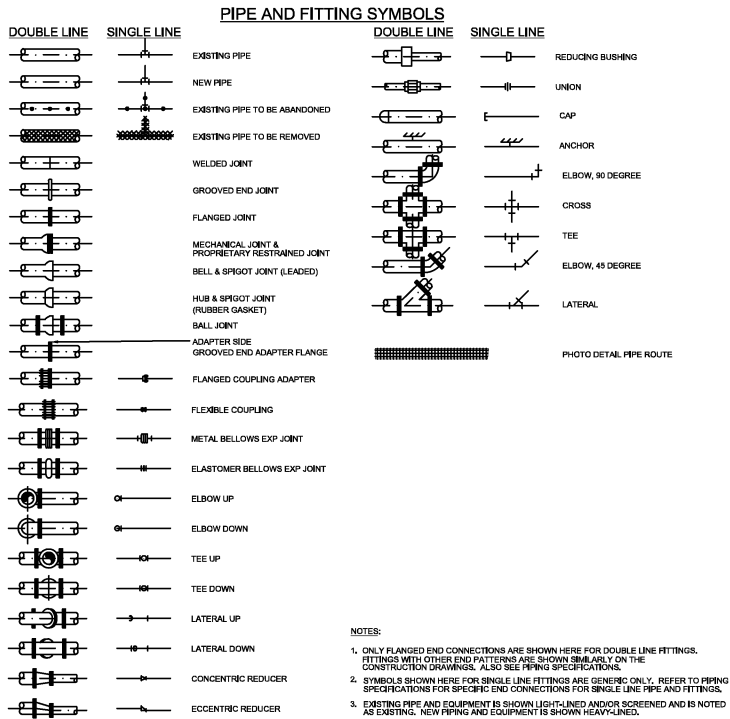
CONCRETE UNIT MASONRY

- 1. MASONRY WALL TYPE (A: SPECIAL; B: INTERMEDIATE; C: ORDINARY) REINFORCED WALLS.
2. THE DESIGN COMPRESSIVE STRENGTH, fm, OF THE FINISHED ASSEMBLY AND MATERIAL PROPERTIES SHALL BE PER THE TABLE BELOW.
3. MORTAR: ASTM C270, TYPE S, HYDRATED.
4. GROUT: ASTM C476 COARSE GROUT. USE OF WATER REDUCERS OR SUPERPLASTICIZERS IS NOT PERMITTED.
5. CONCRETE MASONRY UNITS: ASTM C90 (A: NORMAL; B: MEDIUM; C: LIGHT) WEIGHT. LINEAR SHRINKAGE SHALL NOT EXCEED 0.065 PERCENT.

Table with 4 columns: DESIGN COMPRESSIVE STRENGTH (f'm (PSI)), UNIT STRENGTH (PSI), GROUT STRENGTH (PSI) MIN. MAX., and MORTAR PROPERTIES. Rows include 1,500, 2,000, 2,500, and 3,000 PSI.

- 7. PLACE COURSES IN WALLS, COLUMNS, AND PLASTERS IN RUNNING BOND PATTERN (A) WHERE SHOWN ON DRAWINGS. PROVIDE SQUEELED STACK BOND PATTERN USING OPEN END UNITS.
8. PROVIDE MATCHING FOUNDATION DOWELS FOR ALL TYPICAL AND ADDITIONAL VERTICAL BARS.

Jacobs logo and project information: GENERAL STRUCTURAL NOTES (1 OF 3), VERIFY SCALE, DATE: DECEMBER 2023, PROJ: D3680100, DWG: 001-0-008, SHEET: 1 OF 1, 100% DESIGN SUBMITTAL.



MECHANICAL LEGEND AND NOTES

GENERIC PIPING NOTES

- LAY PIPE TO UNIFORM GRADE BETWEEN INDICATED ELEVATION POINTS.
- SIZE OF FITTINGS SHOWN ON DRAWINGS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE INDICATED. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE.
- LOCATION AND NUMBER OF PIPE HANGERS AND PIPE SUPPORTS SHOWN IS ONLY APPROXIMATE. CONTRACTOR SHALL DESIGN SUPPORTS AS SPECIFIED.
- ALL JOINTS SHALL BE WATERTIGHT. WALL PIPES SHALL BE USED WHEREVER PIPING PASSES FROM A STRUCTURE TO BACKFILL.
- ALL FLEXIBLE CONNECTORS AND COUPLING ADAPTERS SHALL BE PROVIDED WITH THRUST PROTECTION AS SPECIFIED, UNLESS OTHERWISE NOTED. THRUST PROTECTION SHALL BE ADEQUATE FOR TEST PRESSURES SPECIFIED.
- SYMBOLS, LEGENDS, AND PIPE IDENTIFICATIONS SHOWN SHALL BE FOLLOWED THROUGHOUT THE DRAWINGS, WHEREVER APPLICABLE. NOT ALL OF THE VARIOUS PIPING COMPONENTS ARE NECESSARILY USED IN THE PROJECT.
- ALL BURIED PIPING SPECIFIED TO BE PRESSURE TESTED, EXCEPT FLANGED, WELDED, OR SCREWED PIPING. ALL BURIED PIPING SHALL BE PROVIDED WITH THRUST PROTECTION AS SPECIFIED, UNLESS OTHERWISE NOTED.
- NUMBER AND LOCATION OF UNIONS SHOWN ON DRAWINGS IS ONLY APPROXIMATE. PROVIDE ALL UNIONS NECESSARY TO FACILITATE CONVENIENT REMOVAL OF VALVES AND MECHANICAL EQUIPMENT.
- WHERE A GROOVED END COUPLING IS SHOWN, IT SHALL BE THE RIGID JOINT TYPE, UNLESS OTHERWISE SPECIFIED. WHERE A FLANGED COUPLING ADAPTER IS SHOWN, A STANDARD FLANGE SHALL BE JOINED TO THE COUPLING ADAPTER.
- PROCESS FLOW STREAM IDENTIFICATION IS SHOWN ON 1-001-G-001 INSTRUMENTATION AND CONTROLS LEGEND 2.

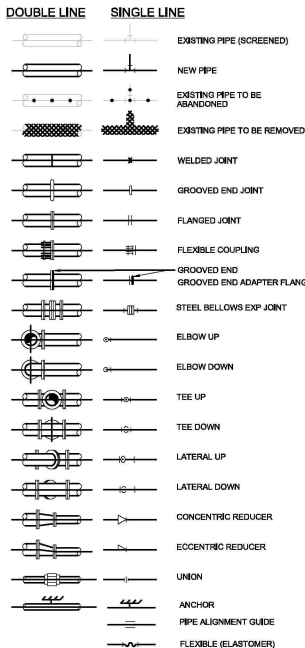
UNIVERSITY OF HAWAII
MANAGEMENT COLLEGE
NAPOLI CAMPUS
COUNTY OF MAUI, HAWAII
MAUI-HONOKAUNAU MAUI, HAWAII

DATE: DECEMBER 2023
PROJ: D3680190
DWG: 001-G-0014
SHEET: 1

DESIGNER: S. CHAMBLIN
CHECKER: S. CHAMBLIN
DATE: 12/13/2023

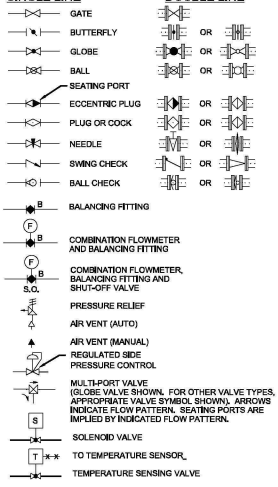
100% DESIGN SUBMITTAL

HEATING, VENTILATING, AND AIR CONDITIONING PIPE AND FITTING SYMBOLS

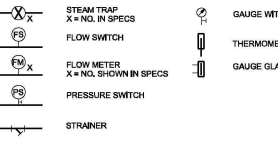


NOTES:
 1. ONLY FLANGED FITTINGS ARE SHOWN FOR DOUBLE LINE PIPING. FITTINGS WITH OTHER END PATTERNS ARE SIMILAR.
 2. EXISTING PIPING AND EQUIPMENT IS SHOWN LIGHT LINED AND SCREENED AND IS NOTED AS EXISTING. NEW PIPING AND EQUIPMENT IS SHOWN HEAVY LINED.

VALVE SYMBOLS



MISCELLANEOUS PIPING SYMBOLS

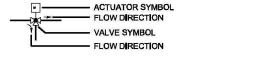


VALVE DESIGNATIONS

MANUAL VALVES AND CHECK VALVES



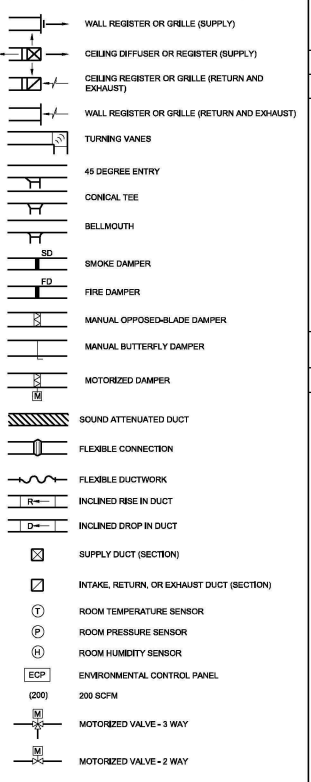
CONTROL VALVES



HVAC EQUIPMENT IDENTIFICATION

ACC	AIR-COOLED CONDENSER
ACCU	AIR-COOLED CONDENSING UNIT
ACU	AIR CONDITIONING UNIT
AHU	AIR HANDLING UNIT
AWC	ABSORPTION WATER CHILLER
BC	BOOSTER HEATING COIL
BD	BUTTERFLY DAMPER
CD	CEILING DIFFUSER
CG	CEILING GRILLE
CR	CEILING REGISTER
CR	CEILING REGISTER
CR	CEILING REGISTER
CRU	CONDENSATE RETURN UNIT
CT	COOLING TOWER
CTP	COOLING TOWER PUMP
CUH	CABINET UNIT HEATER
CWP	CONDENSER WATER PUMP
DA	DIGRATOR
DG	DOOR GRILLE
ECP	ENVIRONMENTAL CONTROL PANEL
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EUH	ELECTRIC UNIT HEATER
FG	FLOOR GRILLE
FD	FIRE DAMPER
HRL	HEAT RECOVERY UNIT
HCG	HIGH-CAPACITY GRILLE
HCSG	HIGH-CAPACITY SUPPLY GRILLE
HTP	HEAT PUMP
HU	HUMIDIFIER
HTR	HIGH THROW REGISTER
HWP	HEATING WATER PUMP
HX	HEAT EXCHANGER
LD	LINEAR DIFFUSER
MD	MOTORIZED DAMPER
ML	MOTORIZED LOUVER
QBD	OPPOSED BLADE DAMPER
PCG	PERFORATED CEILING GRILLE
PCD	PERFORATED CEILING DIFFUSER
PEF	PORTABLE EXHAUST FAN
RAC	ROOM AIR CONDITIONER
SF	SUPPLY FAN
SD	SLOT DIFFUSER
TAC	TERMINAL AIR CONDITIONER
TGU	TERMINAL CONTROL UNIT
UH	UNIT HEATER
WC	WATER CHILLER
WCC	WATER-COOLED CONDENSER
WCCU	WATER-COOLED CONDENSING UNIT
WG	WALL GRILLE
WR	WALL REGISTER
WSG	WATER SUPPLY GRILLE
WSHP	WATER SOURCE HEAT PUMP
WSR	WALL SUPPLY REGISTER

HEATING, VENTILATING, AND AIR CONDITIONING SYMBOLS



UNIVERSITY OF HAWAII	
MANAGEMENT CENTER	
NAPOLI CAMPUS, 1000 UNIVERSITY AVENUE	
COUNTY OF MAUI, HAWAII	
MAUI-HONOKAIAI MAUI, HAWAII	
DATE	DECEMBER 2023
PROJ	D3680190
DWG	001-G-0015
SHEET	OF

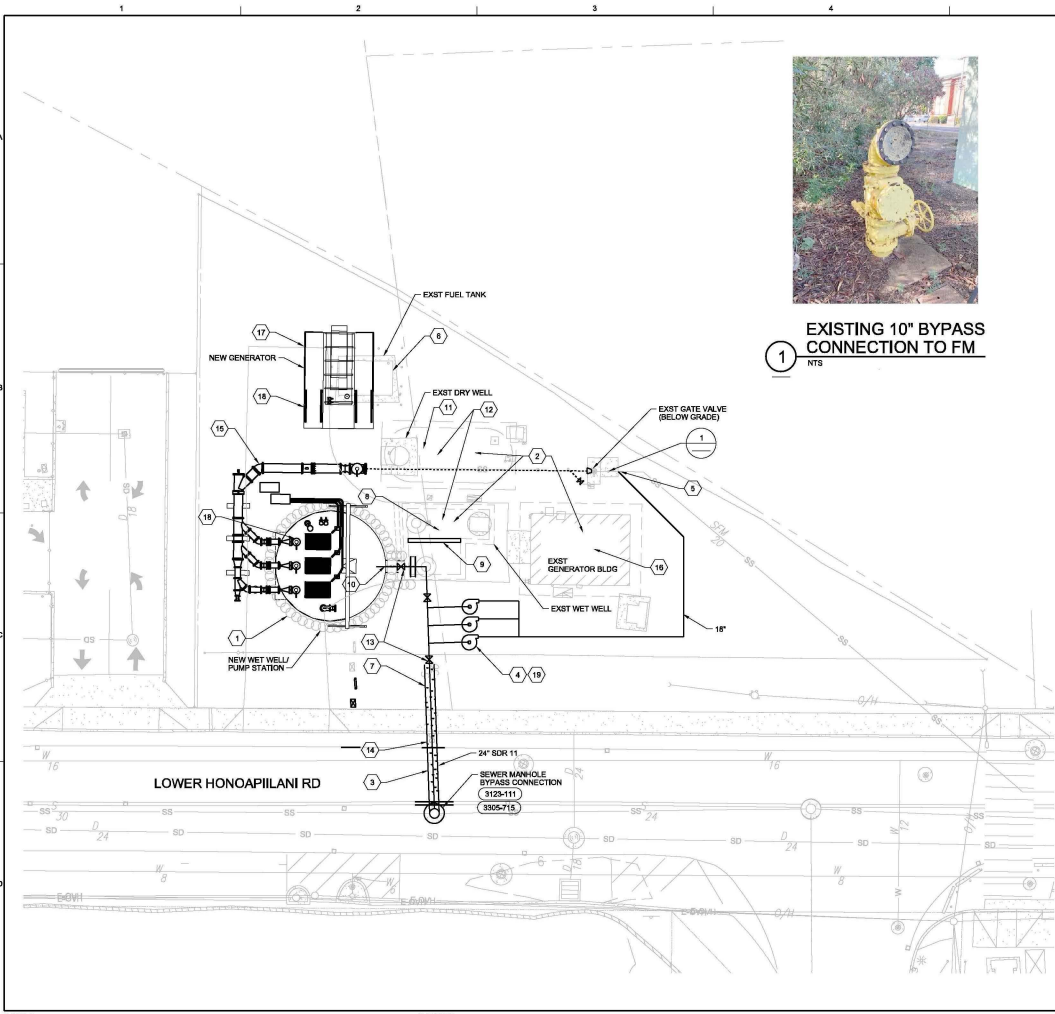
100% DESIGN SUBMITTAL

DATE: DECEMBER 2023
 PROJ: D3680190
 DWG: 001-G-0015
 SHEET: OF

UNIVERSITY OF HAWAII
 MANAGEMENT CENTER
 NAPOLI CAMPUS, 1000 UNIVERSITY AVENUE
 COUNTY OF MAUI, HAWAII
 MAUI-HONOKAIAI MAUI, HAWAII

DATE: DECEMBER 2023
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100% DESIGN SUBMITTAL

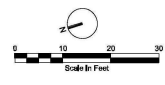


- PHASE 1**
- 17 INSTALL SIGNING, DEWATERING, CONSTRUCT NEW WET WELL.
 - 2 MAINTAIN OPERATION OF EXISTING WET WELL, PUMPS AND ELECTRICAL.
- PHASE 2**
- 3 CONNECT BYPASS PIPING TO EXISTING MANHOLE IN LOWER HONOAPIILANI ROAD PROVIDE TRAFFIC CONTROL AS REQUIRED FOR INSTALLATION.
 - 4 INSTALL BYPASS PIPING AND BYPASS PUMPS
 - 5 INSTALL BYPASS PUMP DISCHARGE AND CONNECT TO FORCE MAIN
 - 6 DEMOLISH EXISTING FUEL TANK
- PHASE 3**
- 7 BYPASS PUMP ALL FLOW FROM MANHOLE IN LOWER HONOAPIILANI ROAD TO FORCE MAIN BYPASS. ISOLATE EXISTING WET WELL AND PUMP STATION
 - 8 DEWATER AND CLEAN EXISTING WET WELL
 - 9 INSTALL CONCRETE WALL
 - 10 DEMOLISH AND REMOVE EQUIPMENT IN DRY WELL TO EXTENT SHOWN ON DRAWINGS
 - 11 FLOW FILL WET WELL AND DRY PIT WITH CLSM AS SHOWN ON DRAWINGS
- PHASE 4**
- 13 ISOLATE MANHOLE IN LOWER HONOAPIILANI ROAD. INSTALL INFLATABLE PLUG TO NEW WET WELL INLET PIPING TO PREVENT WASTEWATER FROM ENTERING NEW WETWELL BYPASS PUMP FROM EXISTING WET WELL.
 - 14 REMOVE CONNECTION PIPING FROM MANHOLE REPAIR MANHOLE AND ASPHALT PAVING. PROVIDE TRAFFIC CONTROL AS REQUIRED.
 - 15 INSTALL NEW MECHANICAL EQUIPMENT AND NEW PIPING. CONNECT NEW PIPING TO EXISTING FORCE MAIN.
 - 16 DEMOLISH ELECTRICAL AS SHOWN ON DRAWINGS. INSTALL NEW ELECTRICAL.
 - 17 INSTALL NEW GENERATOR
- PHASE 5**
- 18 COMMISSION NEW PUMPS, GENERATOR AND ALL OTHER SYSTEMS.
 - 19 REMOVE BYPASS PUMPING, PIPING AND EQUIPMENT

NOTES:

1. PROTECT EXISTING 16" WATER MAIN LOCATED ALONG LOWER HONOAPIILANI ROAD AND 36" WATERLINE LOCATED WITHIN THE WWPIS SITE IN PLACE WHEN ROUTING TEMPORARY PIPING TO EXISTING SEWER MANHOLE #A-20. SHOULD WATER UTILITY REQUIRE INTERRUPTION TEMPORARY SERVICE INFRASTRUCTURE AND/OR RELOCATION, THE CONTRACTOR IS TO CONSULT WITH THE OWNER.

FOR APPROVAL PRIOR TO EXCAVATION, REMOVAL OR CONSTRUCTION.



DATE	MARCH 2023
PROJ	D3960100
OWN	001-C-2022
SHEET	41

DESIGNED BY: M. MANUJAN
 CHECKED BY: P. MURPHY
 DRAWN BY: S. CHAMBLIN

REVISIONS:

NO.	DATE	DESCRIPTION

Jacobs
 GENERAL CONTRACTOR
 CONSTRUCTION SEQUENCE/
 PHASING PLAN

VERIFIED SCALE
 EITHER ONE ONLY OR
 ORIGINAL DRAWING
 1" = 10'

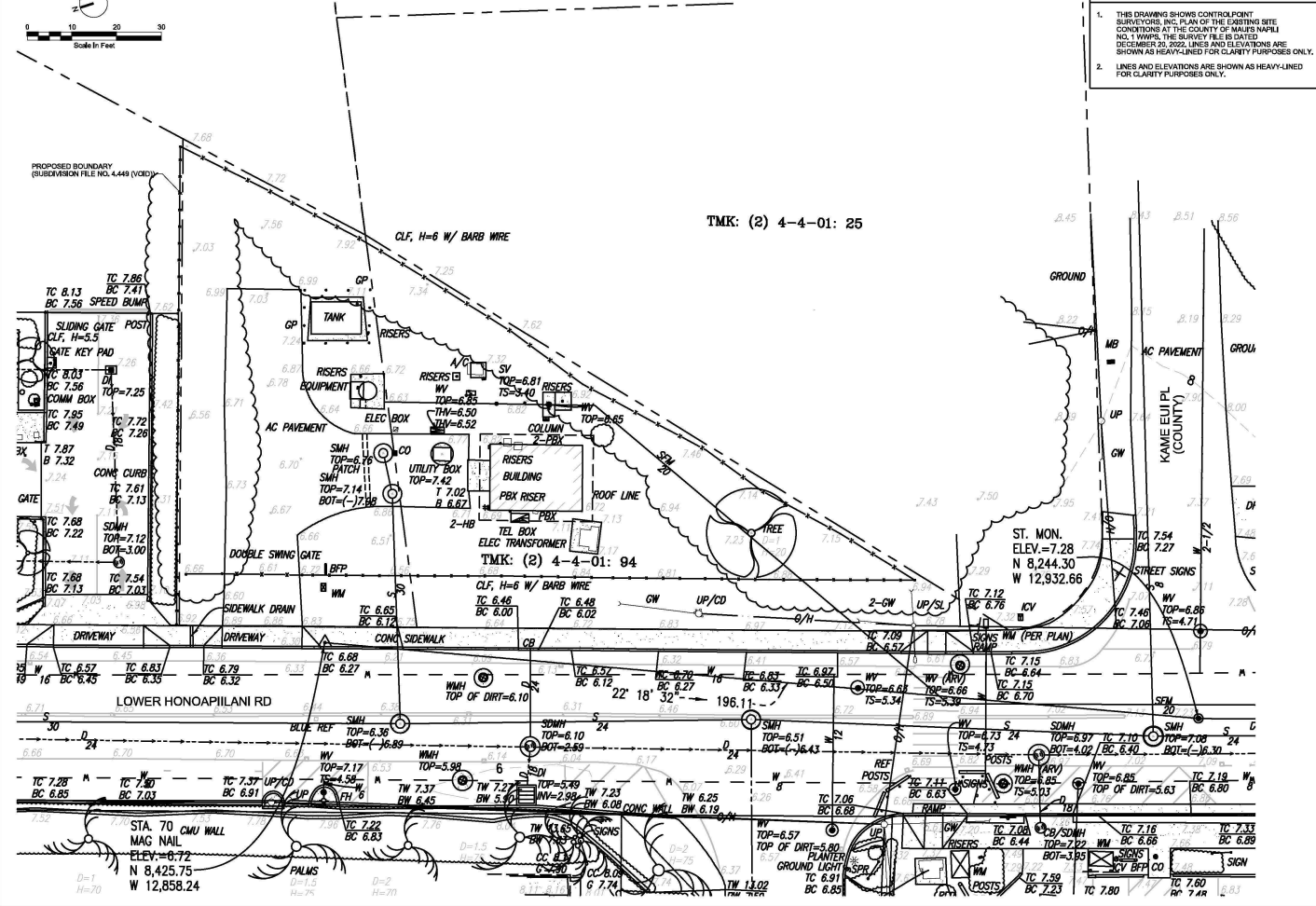
DATE: MARCH 2023
 PROJ: D3960100
 OWN: 001-C-2022
 SHEET: 41

50% DESIGN SUBMITTAL



GENERAL SHEET NOTES

- THIS DRAWING SHOWS CONTROL POINT SURVEYORS, INC. PLAN OF THE EXISTING SITE CONDITIONS AT THE COUNTY OF MAUI'S NAPELI NO. 1 WPP. THE SURVEY FILE DATED DECEMBER 20, 2022. LINES AND ELEVATIONS ARE SHOWN AS HEAVY-LINED FOR CLARITY PURPOSES ONLY.
- LINES AND ELEVATIONS ARE SHOWN AS HEAVY-LINED FOR CLARITY PURPOSES ONLY.



TMK: (2) 4-4-01: 25

ST. MON.
ELEV.=7.28
N 8,244.30
W 12,932.66

Jacobs

EXISTING SITE SURVEY

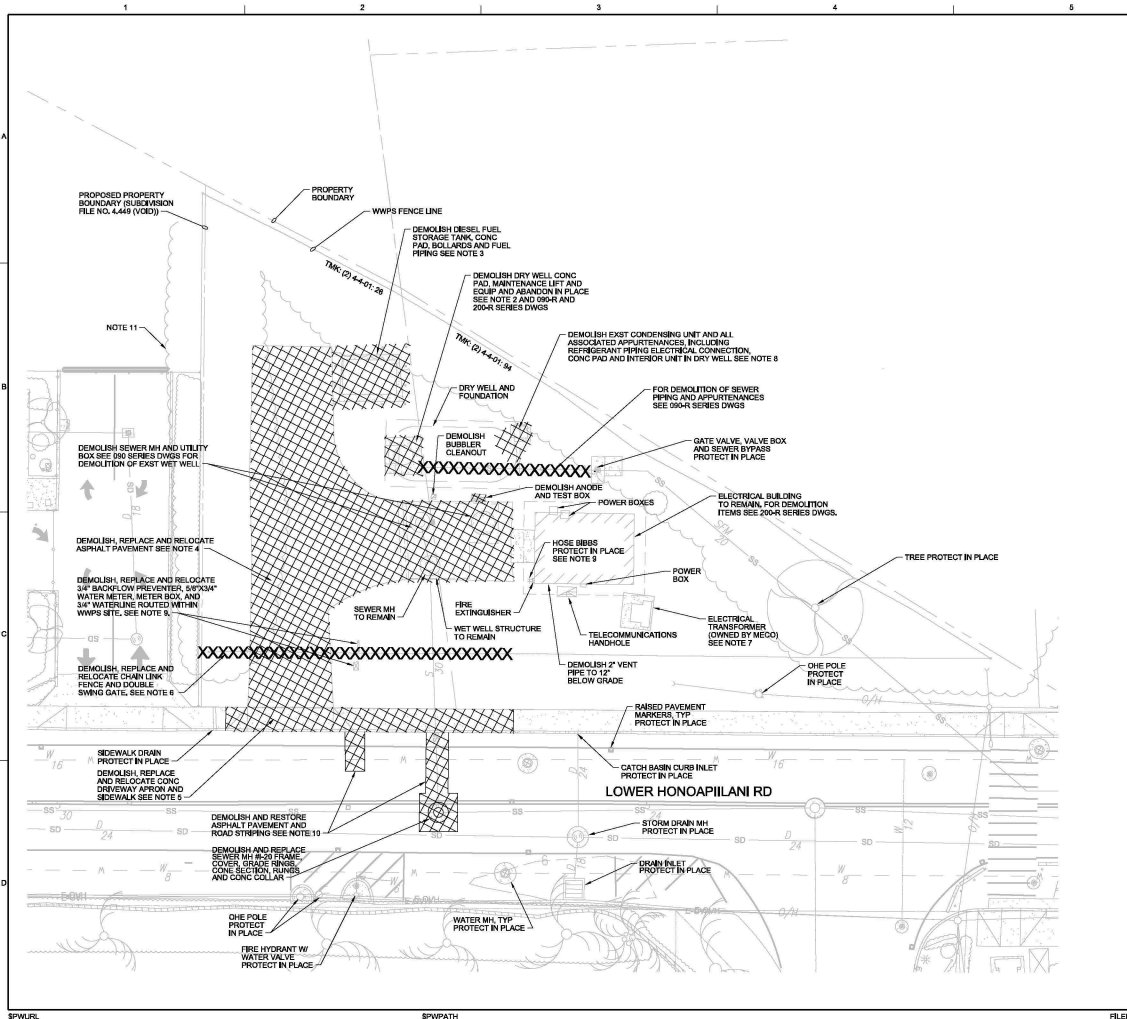
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DATE	DECEMBER 2022
PROJ	D3960100
CHG	000-C-001
SHEET	47

VERBY SCALE: 1"=40'

DATE: DECEMBER 2022
PROJ: D3960100
CHG: 000-C-001
SHEET: 47

FILENAME: 000-C-001_D3960100.dgn PLOT DATE:



GENERAL SHEET NOTES

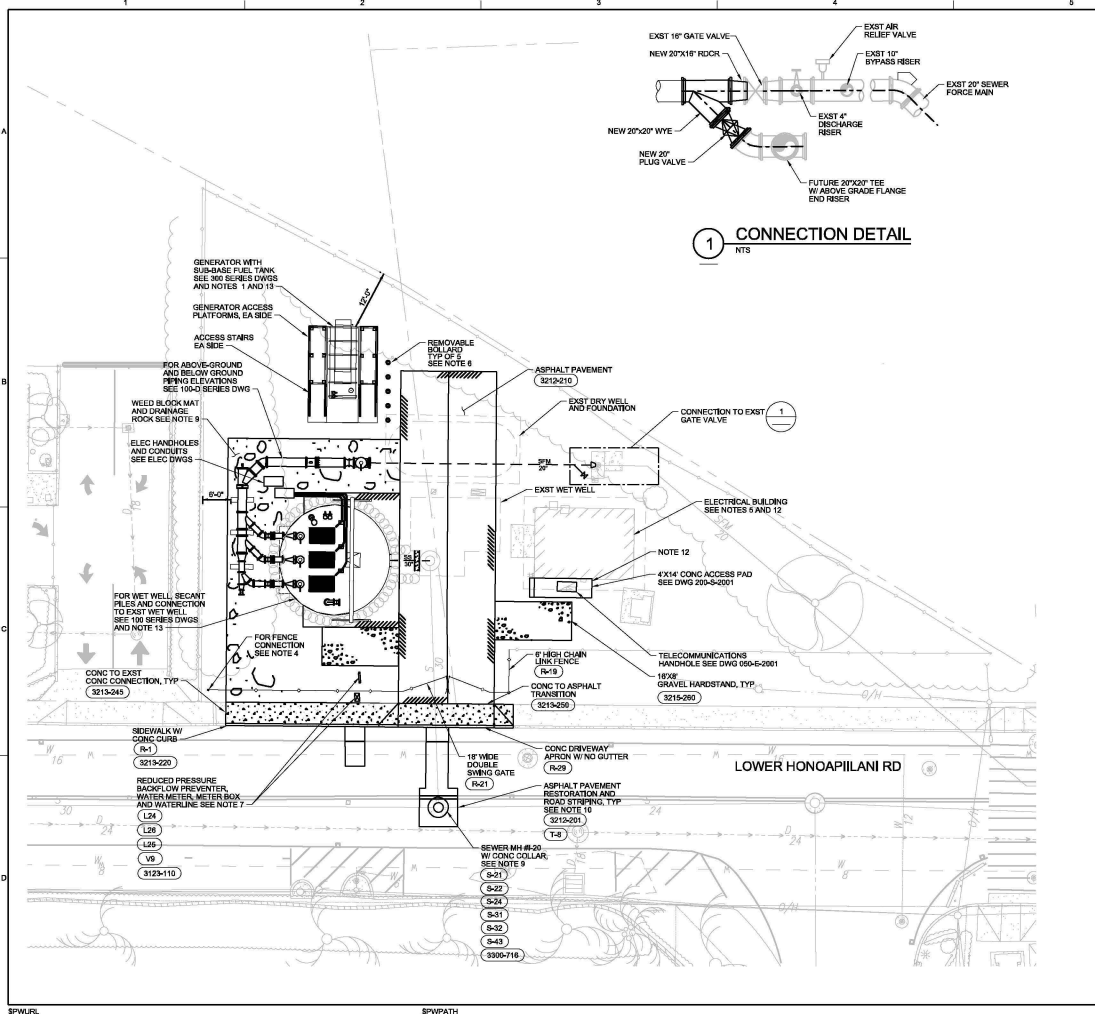
1. THE CONTRACTOR SHALL FIELD VERIFY LOCATION, ELEVATION, MATERIAL, SIZE AND ROUTING OF PIPING, CONDUITS AND STRUCTURES PRIOR TO REMOVAL OR INSTALLATION. THE CONTRACTOR SHALL NOTIFY THE COUNTY OF MAUI OF DISCREPANCY WITH DRAWINGS AND SUBMIT ANY DETAILS AND ROUTING FOR APPROVAL PRIOR TO REMOVAL OR CONSTRUCTION.
2. REMOVE AND CUT THE MAINTENANCE LIFT A MINIMUM OF 7.5 FEET BELOW EXISTING GRADE INCLUDING THE ABOVE GROUND CONCRETE PAD FOR DISPOSAL. PUMP OUT AND DISINFECT THE DRY WELL. DRILL MINIMUM 1/4" DIA HOLES AT CROWN OF DRY WELL AT 4 FEET ON CENTER, PLUG SUCTION AND DISCHARGE PIPES WITH 3/4" X 1/4" AND 1 X 1/8" CONCRETE PLUGS A MINIMUM 2 X PIPE OD. IN LENGTH TO SEAL AND DISABLE ALL DRY WELL INLET AND OUTLET OPENINGS. FILL DRY WELL AND MAINTENANCE LIFT WITH CONTROLLED LOW-STRENGTH MATERIAL (CLSM) TO THE TOP OF THE MAINTENANCE LIFT SEE WALLS AND BACKFILL EXCAVATION TO MATCH EXISTING OR FINAL GRADE AS APPLICABLE.
3. REMOVE 2 X BELOW-GROUND FUEL PIPES RUNNING FROM THE SOUTHWEST CORNER OF THE FUEL TANK TO THE NORTHWEST CORNER OF THE ELECTRICAL BUILDING. BACKFILL CONCRETE PAD, BOLLARD AND PIPE EXCAVATIONS TO MATCH EXISTING GRADE.
4. PROVIDE SAWCUT CLEAN EDGE ALONG EXISTING SIDEWALK, FACES AND BACKFILL EXCAVATION TO MATCH EXISTING OR FINAL GRADE AS APPLICABLE.
5. PROVIDE SAWCUT CLEAN EDGE ALONG EXISTING SIDEWALK AND LOWER HONOAPIILANI ROAD FACES.
6. DEMOLISH TO NEAREST FENCE POST AND BACKFILL FENCE POST EXCAVATIONS TO MATCH EXISTING OR FINAL GRADE AS APPLICABLE.
7. THE CONTRACTOR SHALL COORDINATE WITH MECO FOR THE REPLACEMENT/UPGRADE OF THE ELECTRICAL TRANSFORMER.
8. BACKFILL CONCRETE PAD EXCAVATIONS TO MATCH EXISTING OR FINAL GRADE AS APPLICABLE.
9. FIELD VERIFY AND LOCATE 3/4" WATER PIPE ROUTING AND ELEVATION WITHIN THE WPPS SITE. WATER METER TAP LOCATION AT THE 16" WATER MAIN LOCATED ALONG LOWER HONOAPIILANI ROAD. CONFIRM AND VERIFY WATER METER SIZE OF 80" X 3/4" WITH THE COUNTY OF MAUI.
10. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES ALONG LOWER HONOAPIILANI ROAD IN PLACE DURING CONSTRUCTION. SHOULD UTILITIES REQUIRE INTERRUPTION, TEMPORARY SERVICE INFRASTRUCTURE AND/OR RELOCATION, THE CONTRACTOR IS TO CONSULT WITH THE OWNER FOR APPROVAL PRIOR TO EXCAVATION, REMOVAL OR CONSTRUCTION.
11. CLEAR, GRUB AND REMOVE TREES, HEDGES AND VEGETATION ALONG THE WPPS SITE NORTH FENCE LINE AS NEEDED TO ACCOMMODATE NEW CONSTRUCTION. NO CLEARING OR GRUBBING IS PERMITTED ALONG THE WPPS SITE EAST FENCE LINE SHARED WITH RESIDENTIAL PRIVATE PROPERTY. TREES, HEDGES AND VEGETATION ALONG THE WPPS SITE EAST FENCE LINE AS NEEDED TO ACCOMMODATE FOR NEW CONSTRUCTION.
12. ALL SLABS ON GRADE REQUIRING DEMOLITION SHALL BE REMOVED TO A DEPTH OF NOT LESS THAN 2 FEET BELOW EXISTING GRADE.

DESIGNER		DATE	
CHECKER		DATE	
APPROVER		DATE	
PROJECT		SHEET	
DRAWING NO.		SCALE	
PROJECT NO.		DATE	
SHEET NO.		DATE	
SHEET TOTAL		DATE	

COUNTY OF MAUI
 DEPARTMENT OF PUBLIC WORKS
 MAUI COUNTY OFFICE OF THE ENGINEER
 100% DESIGN SUBMITTAL

VERIFIED SCALE
 AS SHOWN ON ORIGINAL DRAWINGS
 DATE: DECEMBER 2023
 PROJ: D3660100
 DWG: 000-C-100
 SHEET: 04

FILENAME: 000-C-100_D3660100.qgn
 PLOT DATE: 12/19/2023
 PLOT TIME: 12:11:56 PM

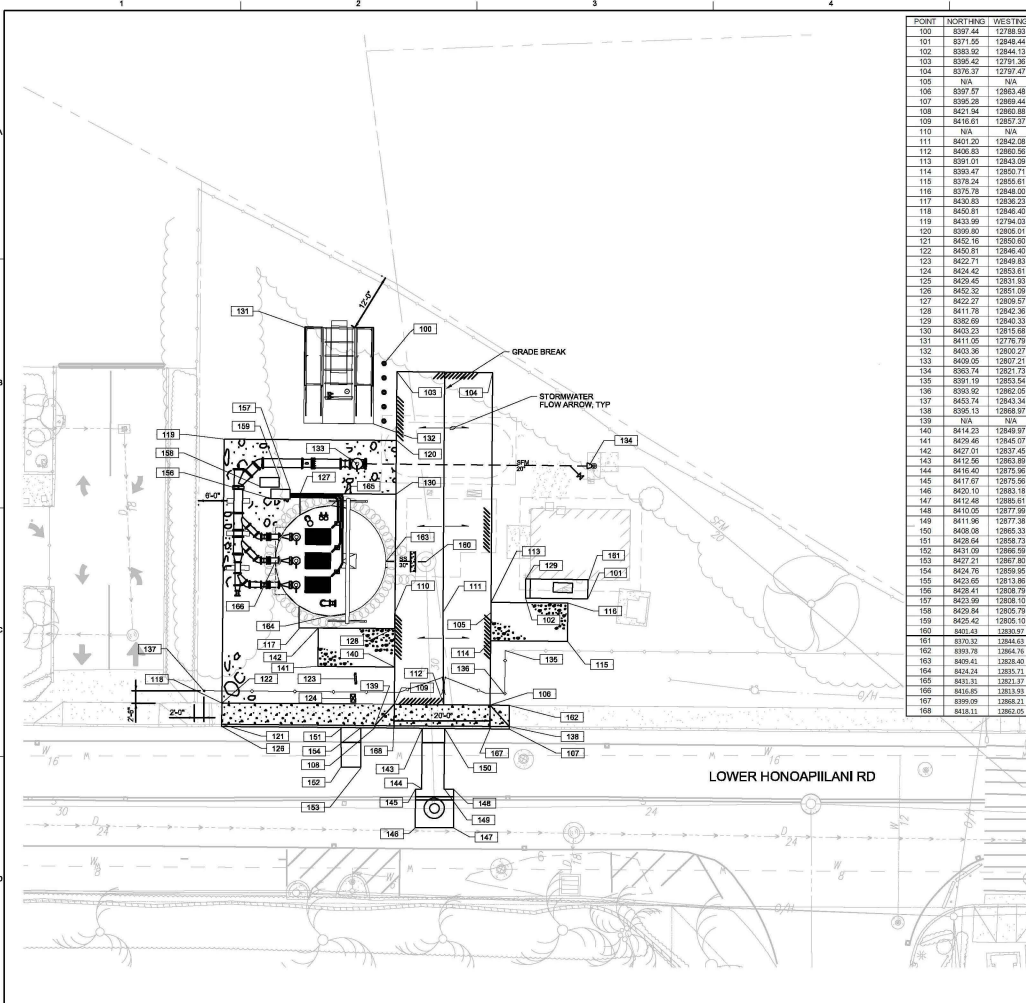


1 CONNECTION DETAIL
1/13

GENERAL SHEET NOTES

1. CLEAR 10M AROUND GRUB WEDGES, TREES AND VEGETATION AS SPECIFIED IN DWG 050-C-1001 NOTE 11 AND SPECIFICATIONS TO PROVIDE A MIN. 10M SEPARATION DISTANCE FROM FUEL TANK TO COMBUSTIBLES (WEEDS, BRUSH, GR OTHER).
2. GRADE AND BACKFILL A MIN. 1% AWAY FROM ALL BUILDINGS AND CONCRETE PADS FOR DRAINAGE AND BLEND TO MATCH EXISTING GRADE AS NEEDED.
3. BACKFILL AND BLEND AROUND ASPHALT PAVEMENT AND GRAVEL SURFACING EDGES TO MATCH EXISTING GRADE AS NECESSARY TO MAINTAIN EXISTING DRAINAGE PATTERNS WITH 5% MAXIMUM SLOPE.
4. CONNECT TO EXISTING SITE FENCE CURRENTLY COVERED BY TREES/VEGETATION AND NOT SHOWN ON SURVEY BACKGROUND. CONTRACTOR TO FIELD VERIFY FENCE CONNECTION LOCATION AND PROVIDE FINAL LAYOUT PLAN FOR APPROVAL PRIOR TO REMOVAL OR CONSTRUCTION.
5. SEE 200A SERIES DRAWINGS FOR PUMP STATION BUILDING DOWN/OUT AND BRUSH BLOCK LOCATIONS.
6. INSTALL 4" x 8" POST GUARD ENCODE COMMERCIAL PRODUCTS, INC. REMOVABLE STEEL POWDER COATED YELLOW BOLLARD OR APPROVED EQUAL, SPACED 3M O.C. PER MANUFACTURER SPECIFICATIONS AND INSTALLATION GUIDELINES.
7. INSTALL SINGLE SERVICE LATERAL WATER SERVICE CONNECTION FOR 8" x 3/4" WATER METER TO W/ WATER MAIN LOCATED ALONG LOWER HONOAPIILANI ROAD. INSTALL ABOVE-GROUND 3/4" REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY AND REDUCED 3/4" WATERLINE ACROSS THE WPPS SITE AS NEEDED TO AVOID CONFLICTS WITH NEW CONSTRUCTION AND MAINTAIN EXISTING SITE WATER SERVICE AREAS. THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND SUBMIT REQUEST, EQUIPMENT AND APPURTENANCES DETAILS FOR APPROVAL TO THE COUNTY OF MAUI AND THE OWNER PRIOR TO REMOVAL AND CONSTRUCTION. DESIGN AND CONSTRUCTION OF WATER SERVICES MUST COMPLY WITH 2002 WATER SYSTEM STANDARDS, STATE OF HAWAII SPECIFICATIONS AND DETAILS, AND THE LATEST VERSION OF THE COUNTY OF MAUI, DEPARTMENT OF WATER SUPPLY AMENDMENTS TO THE 2002 WATER SYSTEM STANDARDS, STATE OF HAWAII SPECIFICATIONS AND DETAILS.
8. INSTALL 18x20 TRAFFIC-RATED 2" DIA. PRECAST GRADE RINGS, 4x4x4 PRE-CAST CONCRETE SEWER HANDHOLE ECCENTRIC CONE SECTION AND 2" DIA. CAST IRON FRAME AND COVER. INSTALL 4x4" CONCRETE COLLAR AROUND 2" DIA. COVER AND FRAME TO PROVIDE ADDITIONAL STRENGTH AND REINFORCEMENT TO THE HANDHOLE FROM TRAFFIC. FOR MORE DETAIL SEE EXISTING MH #80. REFER TO COUNTY OF MAUI NA'AHU HONOKOWAI SEWERAGE SYSTEM AS-BUILT DRAWINGS SHEET 42 OF 55.
9. INSTALL PROPER GEOSOLUTIONS GEOTEX 311 POLYPROPYLENE NON-WOVEN GEOTEXTILE FABRIC OR APPROVED EQUAL PER MANUFACTURER SPECIFICATIONS AND INSTALLATION GUIDELINES. PLACE AND SPREAD A MINIMUM 1" LAYER OF 1/2" x 3/4" HD, LLC GRADE 4 W/ 1/4" COURSE ADHERE TO OR APPROVED EQUAL OVER THE TOP OF THE GEOTEXTILE FABRIC TO PREVENT WEED GROWTH AND FACILITATE FILTRATION AND DRAINAGE.
10. PROVIDE AND APPLY ROAD STRIPPING MATERIAL PER HAWAII DEPARTMENT OF TRANSPORTATION 2005 STANDARD SPECIFICATIONS SECTION 135 - PAVEMENT MARKING MATERIALS. THE CONTRACTOR IS TO SUBMIT PAVEMENT MARKING MATERIALS FOR APPROVAL TO THE COUNTY OF MAUI PRIOR TO CONSTRUCTION.
11. PROVIDE GRAVEL SURFACING PER DETAIL (3215-200) IN AREAS OF EXCAVATION WHERE NO NEW SURFACING IS SHOWN AND BLEND TO MATCH EXISTING OR FINISH GRADE AS NEEDED TO MAINTAIN EXISTING DRAINAGE PATTERNS WITH A MAXIMUM SLOPE OF 5%.
12. SEE 200A SERIES DRAWINGS FOR INSTALLATION INFORMATION REGARDING THE EXTERIOR MOUNT AD UNITS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND AVOIDING EXISTING UNDERGROUND UTILITIES DURING THE SET-OUTTED COLLAR INSTALLATION REQUIRED FOR FOUNDATION SUPPORT AND GROUNDWATER CONTROL AT THE PROPOSED WET WELL AND GENERATOR WITH SUB-BASE FUEL TANK SLAB ON GRADE.

<p>Jacobs CONSULTANTS</p>	
<p>DEPARTMENT OF TRANSPORTATION MANAGING CONTRACTOR MAUI NA'AHU HONOKOWAI MAUI COUNTY OF MAUI, HAWAII</p>	<p>DATE: DECEMBER 2023 PROJECT: D3960100 DRAWING: 050-C-2000 SHEET: 11</p>
<p>DESIGNER: M. MANUJAN CHECKER: M. MANUJAN APPROVED: S. CHAMBERLAIN</p>	<p>DATE: DECEMBER 2023 PROJECT: D3960100 DRAWING: 050-C-2000 SHEET: 11</p>
<p>100% DESIGN SUBMITTAL</p>	



POINT	NORTHING	WESTING	ELEVATION	DESCRIPTION
100	8397.44	12788.93	MATCH EXIST GRADE	BOLLARD BASE
101	8371.05	12848.44	6.70	ACCESS PAD BOC
102	8385.92	12844.13	6.70	ACCESS PAD BOC
103	8395.42	12791.30	6.91	EQP FENCE (NORTH)
104	8376.27	12792.47	6.91	EQP FENCE (SOUTH)
105	N/A	N/A	N/A	NOT USED
106	8397.87	12863.48	6.91	EQP ENTRANCE (SOUTH) / CONC DRIVEWAY / SIDEWALK
107	8395.28	12869.44	MATCH EXIST GRADE	CONC DRIVEWAY CURB (SOUTH)
108	8421.94	12860.88	MATCH EXIST GRADE	CONC DRIVEWAY CURB (NORTH)
109	8416.01	12857.27	6.91	EQP ENTRANCE (NORTH) / CONC DRIVEWAY / WEED BLOCK & DRAINAGE ROCK / SIDEWALK
110	N/A	N/A	N/A	NOT USED
111	8401.20	12842.08	7.21	PAVEMENT FENCE (GRADE BREAK)
112	8408.83	12802.96	7.21	PAVEMENT ENTRANCE (GRADE BREAK)
113	8391.01	12843.09	6.91	GRAVEL HARDSTAND (ELEC BUILDING)
114	8388.47	12850.11	6.91	GRAVEL HARDSTAND (ELEC BUILDING)
115	8378.24	12855.61	6.91	GRAVEL HARDSTAND (ELEC BUILDING)
116	8375.78	12848.00	6.91	GRAVEL HARDSTAND (ELEC BUILDING)
117	8402.83	12839.23	6.91	EQP (WET WELL)
118	8450.81	12846.40	6.40	WEED BLOCK & DRAINAGE ROCK (NORTH)
119	8433.99	12794.03	6.40	WEED BLOCK & DRAINAGE ROCK (NORTH)
120	8399.60	12805.61	6.91	WEED BLOCK & DRAINAGE ROCK (SOUTH)
121	8452.18	12850.60	MATCH EXIST GRADE	SIDEWALK CURB (NORTH)
122	8450.81	12846.40	MATCH EXIST GRADE	SIDEWALK (NORTH)
123	8422.71	12849.83	MATCH FINISHED GRADE	REDUCED PRESSURE BACKFLOW PREVENTER
124	8424.42	12853.61	MATCH FINISHED GRADE	WATER METER BOX
125	8426.45	12831.83	6.91	EQP (WET WELL)
126	8452.32	12851.09	MATCH EXIST GRADE	SIDEWALK CURB (NORTH)
127	8422.27	12809.57	6.91	EQP (WET WELL)
128	8411.78	12842.36	6.91	EQP (WET WELL) GRAVEL HARDSTAND (WET WELL)
129	8382.89	12840.33	6.70	ACCESS PAD BOC
130	8402.23	12816.88	6.91	EQP (WET WELL)
131	8411.09	12776.79	7.02	DIESEL TANK/GENERATOR ENCLOSURE TOC
132	8403.96	12800.27	7.02	DIESEL TANK/GENERATOR ENCLOSURE TOC
133	8400.05	12807.21	SEE 100-0-SEE SEE DIVISION	PIPING TRANSITION
134	8363.74	12821.73	MATCH EXIST PIPE CL	CONNECT TO EXIST FORCE MAIN
135	8391.19	12853.54	MATCH EXIST GRADE	FENCE
136	8393.02	12862.65	MATCH EXIST GRADE	FENCE
137	8453.74	12843.34	MATCH EXIST GRADE	FENCE
138	8395.13	12868.97	MATCH EXIST GRADE	SIDEWALK CURB (SOUTH)
139	N/A	N/A	N/A	NOT USED
140	8414.23	12849.97	6.91	GRAVEL HARDSTAND (WET WELL)
141	8409.46	12845.07	6.91	GRAVEL HARDSTAND (WET WELL)
142	8427.01	12837.45	6.91	GRAVEL HARDSTAND (WET WELL)
143	8412.98	12863.89	MATCH EXIST GRADE	AC PAVEMENT RESTORATION
144	8416.40	12875.96	MATCH EXIST GRADE	AC PAVEMENT RESTORATION
145	8417.67	12875.96	MATCH EXIST GRADE	AC PAVEMENT RESTORATION
146	8420.10	12882.18	MATCH EXIST GRADE	AC PAVEMENT RESTORATION
147	8412.48	12885.61	MATCH EXIST GRADE	AC PAVEMENT RESTORATION
148	8410.05	12877.99	MATCH EXIST GRADE	AC PAVEMENT RESTORATION
149	8411.98	12877.99	MATCH EXIST GRADE	AC PAVEMENT RESTORATION
150	8408.08	12866.33	MATCH EXIST GRADE	AC PAVEMENT RESTORATION
151	8428.64	12858.73	MATCH EXIST GRADE	AC PAVEMENT RESTORATION
152	8431.09	12866.59	MATCH EXIST GRADE	AC PAVEMENT RESTORATION
153	8427.21	12867.80	MATCH EXIST GRADE	AC PAVEMENT RESTORATION
154	8424.78	12859.95	MATCH EXIST GRADE	AC PAVEMENT RESTORATION
155	8423.05	12813.80	6.91	EQP (WET WELL)
156	8428.41	12808.79	MATCH FINISHED GRADE	ELEC HANDHOLE
157	8423.99	12808.03	MATCH FINISHED GRADE	ELEC HANDHOLE
158	8429.84	12805.79	MATCH FINISHED GRADE	ELEC HANDHOLE
159	8428.42	12805.10	MATCH FINISHED GRADE	ELEC HANDHOLE
160	8401.01	12830.87	7.14	EQP SEWER MANHOLE AT EXIST WET WELL
161	8370.32	12844.63	6.70	ACCESS PAD BOC
162	8393.78	12854.36	MATCH EXIST GRADE	SIDEWALK (SOUTH)
163	8409.41	12838.40	6.88	WET WELL TOC
164	8424.24	12833.71	6.83	WET WELL TOC
165	8403.31	12821.87	6.83	WET WELL TOC
166	8416.85	12813.83	6.41	WET WELL TOC
167	8399.09	12868.21	MATCH EXIST GRADE	CONC DRIVEWAY CURB
168	8418.11	12862.65	MATCH EXIST GRADE	CONC DRIVEWAY CURB

DATE: 12/19/2023

PROJECT: 090-C-2001_D3560100.dgn

DESIGNER: M. MANUJAN

CHECKER: M. MANUJAN

DATE: 12/19/2023

PROJECT: 090-C-2001_D3560100.dgn

DESIGNER: M. MANUJAN

CHECKER: M. MANUJAN

REVISION

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Jacobs

CHIEF ENGINEER

SITE LAYOUT PLAN

VERIFY SCALE

DATE: DECEMBER 2023

PROJECT: 090-C-2001

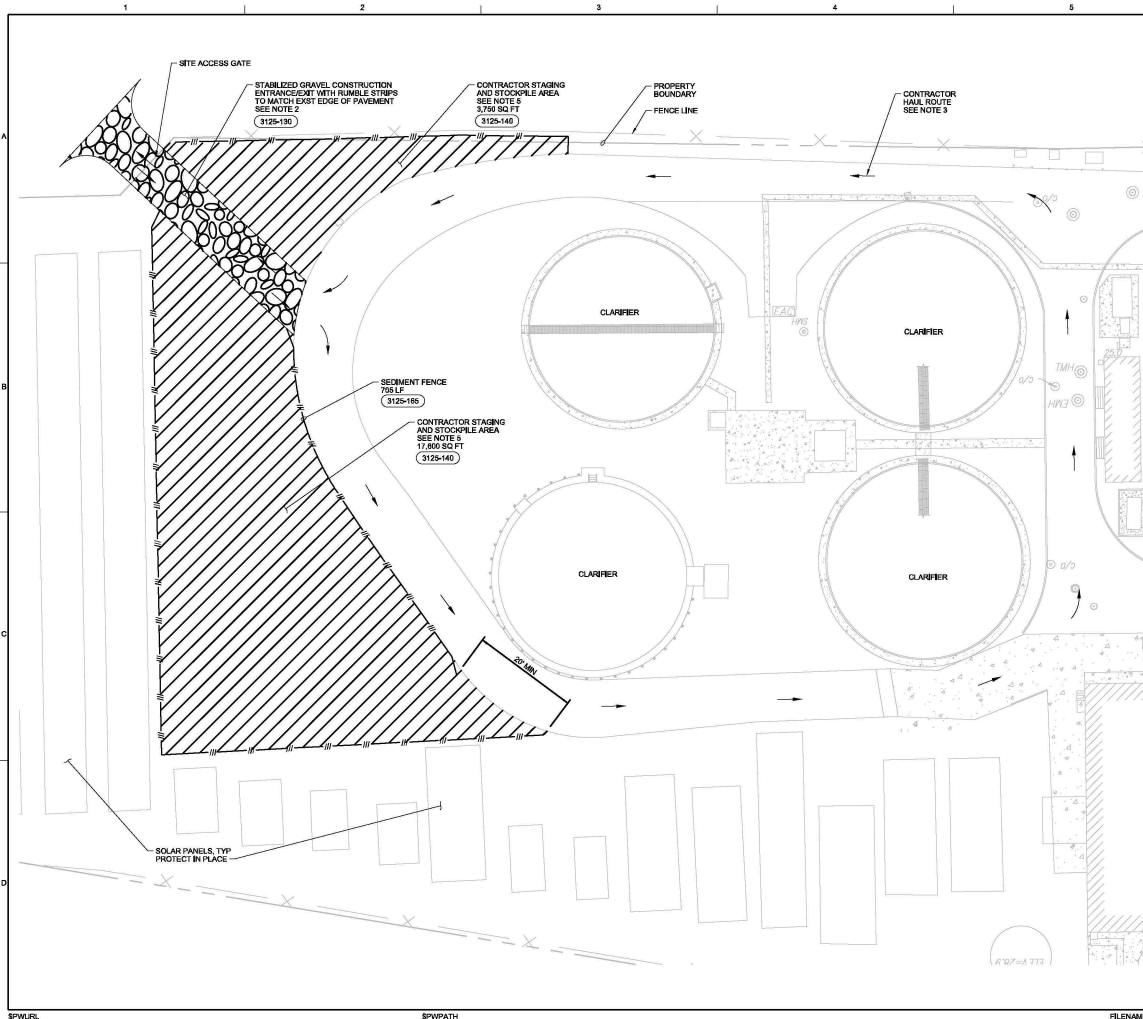
DWG: 090-C-2001

SHEET: 41

100% DESIGN SUBMITTAL

PLOT DATE: 12/19/2023

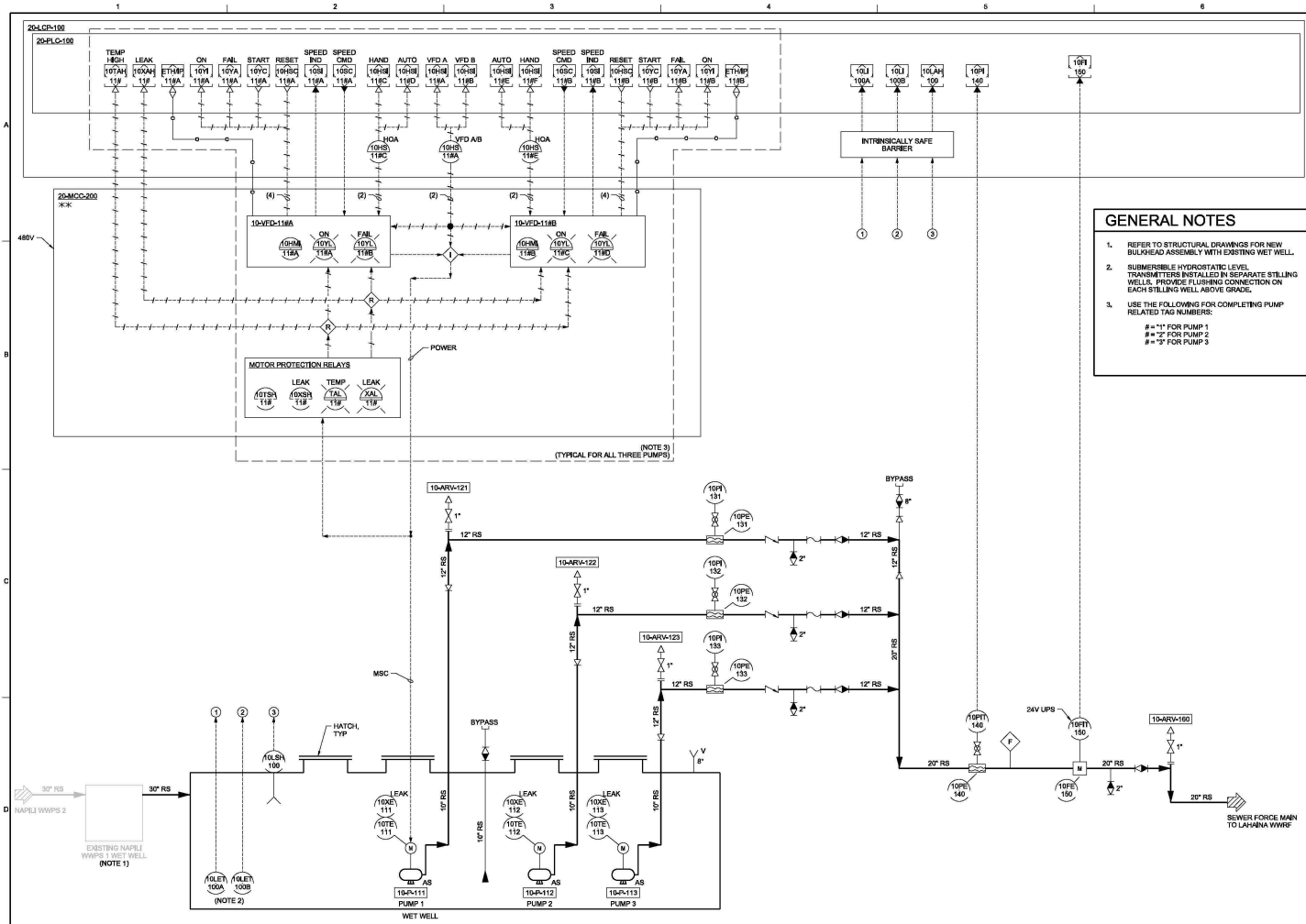
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GENERAL SHEET NOTES

- REFER TO DRAWING 050-C-001 FOR EROSION AND SEDIMENT CONTROL NOTES.
- INSTALL MIN 20 FOOT (W) X MIN 50 FOOT (L) CONSTRUCTION ENTRANCEWAYS, PLACE CONCRETE STEEL RUMBLE PLATES TRACKOUT CONSTRUCTION GRATES #20X#24#24X10 OR APPROVED EQUAL AT CONSTRUCTION ENTRANCEWAYS TO PREVENT TRACK OUT OF CONSTRUCTION SEDIMENT.
- THE CONTRACTORS TO ENTER AND EXIT THE LAHA'ANA WWSRF SITE VIA HONOLULU AVE DURING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR AND/OR RESTORE DAMAGE TO PRIVATE, STATE OR COUNTY PROPERTY INCLUDING BUT NOT LIMITED TO ROADS, CURB AND GUTTERS, AND UTILITY MARKERS, SIGNPOSTS, SIGNPOSTS AND EQUIPMENT CAUSED BY CONSTRUCTION TRAFFIC TO PRECONSTRUCTION CONDITIONS OR BETTER IN ACCORDANCE WITH THE LATEST VERSION OF THE COUNTY STANDARD DETAILS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, DEPARTMENT OF PUBLIC WORKS, COUNTY OF MAUI, HAWAII DEPARTMENT OF TRANSPORTATION STANDARD DETAILS AND SPECIFICATIONS AND/OR UTILITY OWNER STANDARD DETAILS, SPECIFICATIONS AND REQUIREMENTS RESPECTIVELY.
- THE CONTRACTOR SHALL COORDINATE WITH THE FOLLOWING ONGOING PROJECTS AT THE LAHA'ANA WASTEWATER RECLAMATION FACILITY (WWSRF):
 WW14-08 WEST MAUI RECYCLED WATER EXPANSION PHASE 2
 WW20-11 LAHA'ANA WWSRF R1 EXPANSION, FILTERS AND FLOW EQUALIZATION
 WW18-18 LAHA'ANA RTU ELECTRICAL
 WW19-17 LAHA'ANA RTU SYSTEM INTEGRATION
- THE CONTRACTOR SHALL USE THE STAGING AND STOCKPILE AREAS SHOWN AT THE COUNTY OF MAUI'S LAHA'ANA WWSRF LOCATED AT 2822 HONOLULU AVE HIGHWAY 1 LAHA'ANA #8 89101 WITH TIMES (T) 4-4-2022-2023 AND (D) 4-4-201-104 FOR PARKING OF VEHICLES, CONTRACTORS TRAILERS, STOCKPILE AREAS AND PLACING OF EQUIPMENT AS APPROVED BY THE COUNTY OF MAUI. THE CONTRACTOR SHALL PROTECT DRAIN BULBS OR CATCH BASINS LOCATED IN CLOSE PROXIMITY TO STAGING AND STOCKPILE AREAS AND HAUL ROUTES PER NOTE 7 ON DRAWINGS 050-C-003 OR APPROVED SIMILAR. NO CLEARING OR GRUBBING IS PERMITTED AT THE LAHA'ANA WWSRF SITE AND ALL TREES SHALL BE PROTECTED IN PLACE.

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GENERAL NOTES

- REFER TO STRUCTURAL DRAWINGS FOR NEW BULKHEAD ASSEMBLY WITH EXISTING WET WELL.
- SUBMERGIBLE HYDROSTATIC LEVEL TRANSMITTERS INSTALLED IN SEPARATE STILLING WELLS. PROVIDE FLUSHING CONNECTION ON EACH STILLING WELL ABOVE GRADE.
- USE THE FOLLOWING FOR COMPLETING PUMP RELATED TAG NUMBERS:
 # = "1" FOR PUMP 1
 # = "2" FOR PUMP 2
 # = "3" FOR PUMP 3

Jacobs

INSTRUMENTATION AND CONTROL
 PUMP STATION
 P-81D

100% DESIGN SUBMITTAL

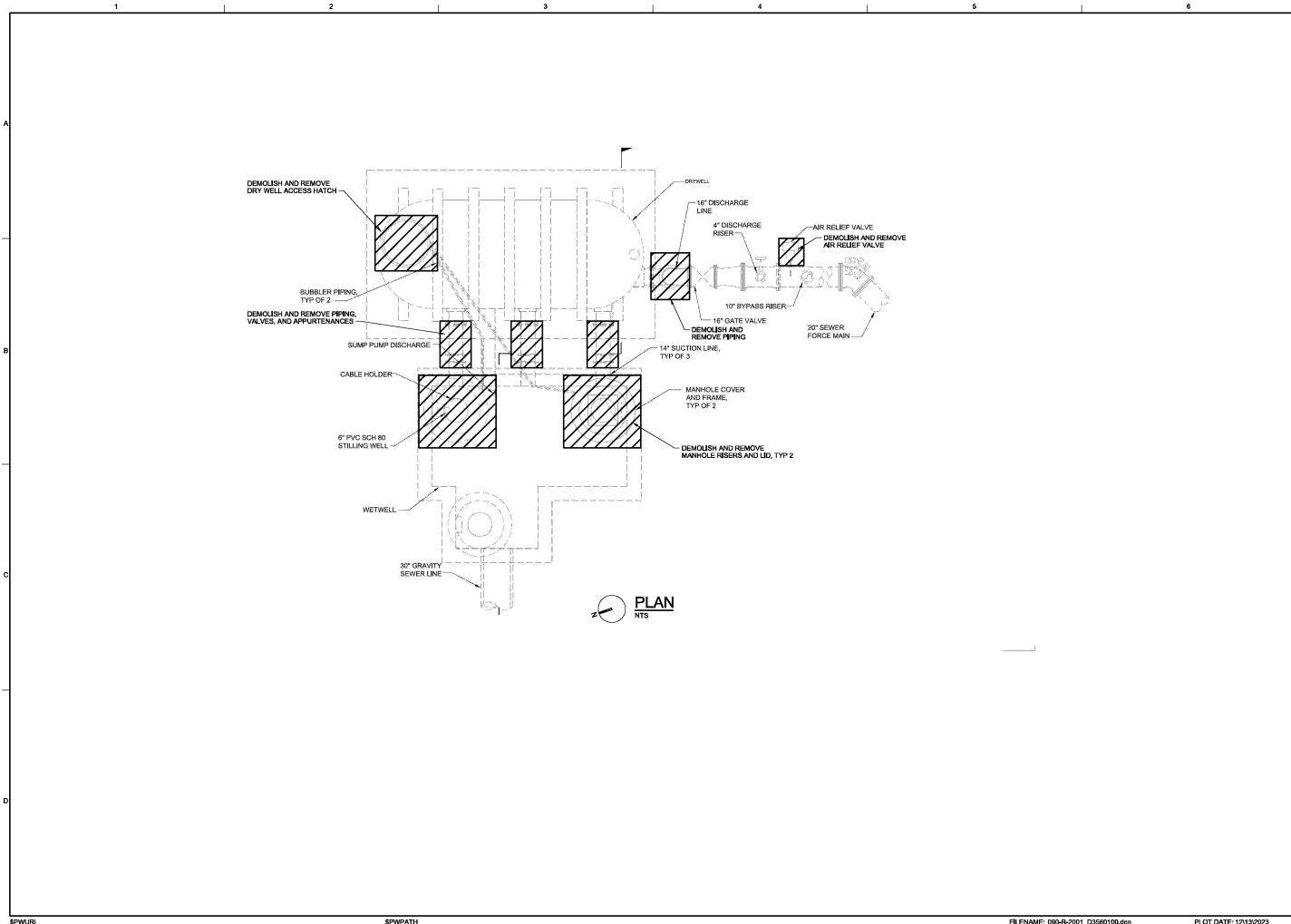
DATE: DECEMBER 2023
 PROJ: D3860100
 DWG: 090-14-0001
 SHEET: 11

REVISIONS:

NO.	DATE	BY	CHKD	REASON
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APPROVED BY: JACOBSON, S. CHAMBERLIN
 DATE: 12/22/23

PROJECT: WASTEWATER PUMP STATION P-81D
 SHEET: 11 OF 11

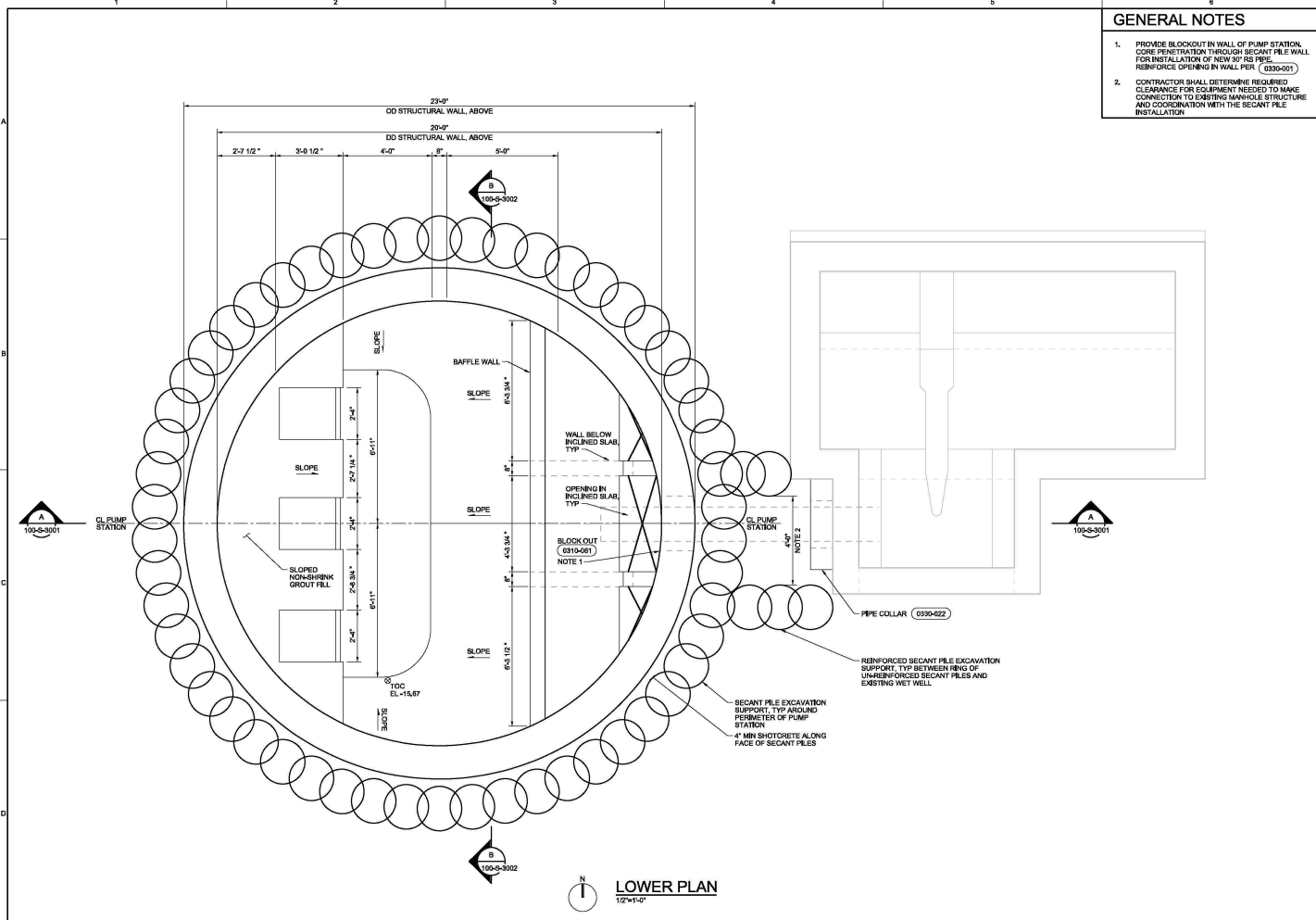


PLAN
NTS

UNIVERSITY OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES HONOLULU, HAWAII	
PROJECT NO. 090-R-2001 SHEET NO. 1	DATE: DECEMBER 2023 PROJ: D3680100 CIVIL: 090-R-2001 SHEET: 1
DESIGNER: JACOBSON ASSOCIATES, INC. PROJECT NO. 090-R-2001	REVIEWER: S. CHAMBLIN DATE: 12/13/2023
CLIENT: UNIVERSITY OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES HONOLULU, HAWAII	PROJECT: WET WELL AND DRY PIT PLAN
100% DESIGN SUBMITTAL	

GENERAL NOTES

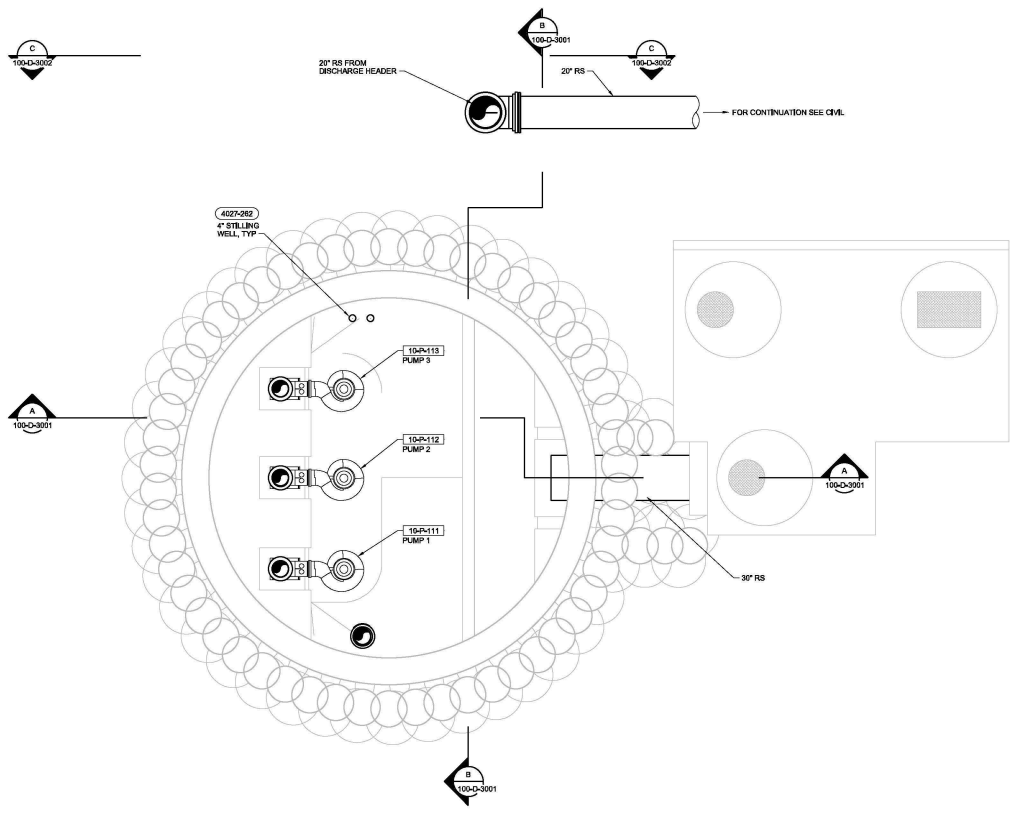
1. PROVIDE BLOCKOUT IN WALL OF PUMP STATION, CORE PENETRATION THROUGH SECANT PILE WALL FOR INSTALLATION OF NEW 30" R/S PIPE. REINFORCE OPENING IN WALL PER (030-001)
2. CONTRACTOR SHALL DETERMINE REQUIRED CLEARANCE FOR EQUIPMENT NEEDED TO MAKE CONNECTION TO EXISTING MANHOLE STRUCTURE AND COORDINATION WITH THE SECANT PILE INSTALLATION



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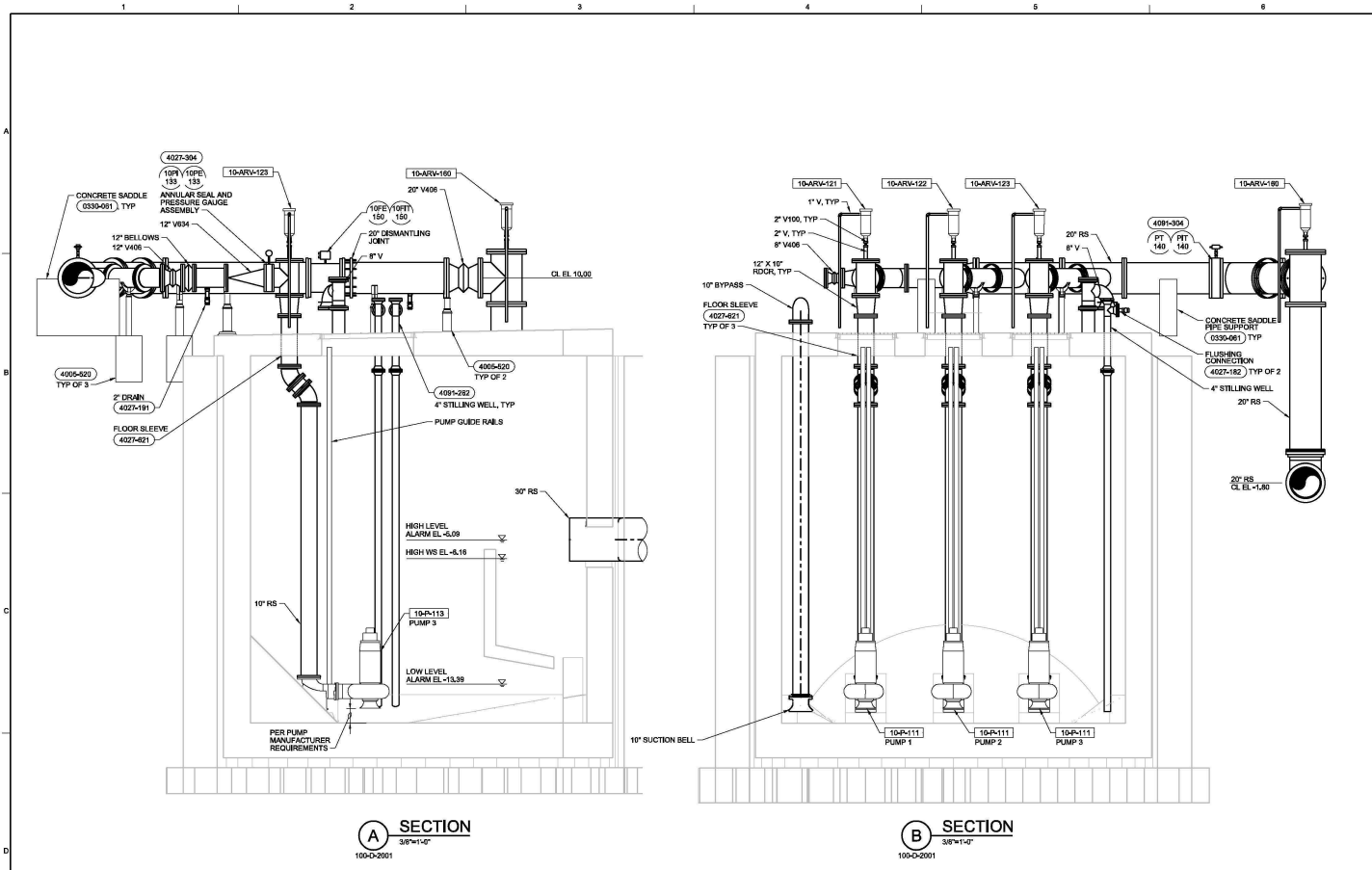
GENERAL NOTES

1. PROVIDE FLANGE 10-INCH LONG RADIUS FLARE SOCKS BEND. FITTING SHALL BE COATED AND LINED PER PIPE SCHEDULE.



LOWER PLAN
3/8" = 1'-0"

PROJECT: COUNTY OF HONOLULUI, HAWAII MANAHOAULI COAST GUARD STATION NAHELE ST. ST. HAWAIIAN OBSERVATIONS COUNTY OF HAWAII, HAWAII NAHELE-HONOLULUI, HAWAII	
REVISION NO. DATE BY 1 12/14/2023 S. CHAMBLIN	REVISION NO. DATE BY 2 12/14/2023 S. CHAMBLIN
DATE: DECEMBER 2023 PROJ: D3660100 CIVIL: 100-D-2001 SHEET: 04	100% DESIGN SUBMITTAL



UNIVERSITY OF HAWAII MANAGEMENT COLLEGE NAPILI CAMPUS COUNTY OF MAUI, HAWAII		NO. _____	DATE _____	DESIGNER B. GARDNER	REVISION S. CHAMBLIN	BY J. ANDO
PROJECT: _____		P. NUMBER: _____		S. NUMBER: _____		DATE: _____
DESIGNER: _____		CHECKER: _____		APPROVER: _____		DATE: _____
PROJECT: _____		SHEET: _____		TOTAL SHEETS: _____		DATE: _____

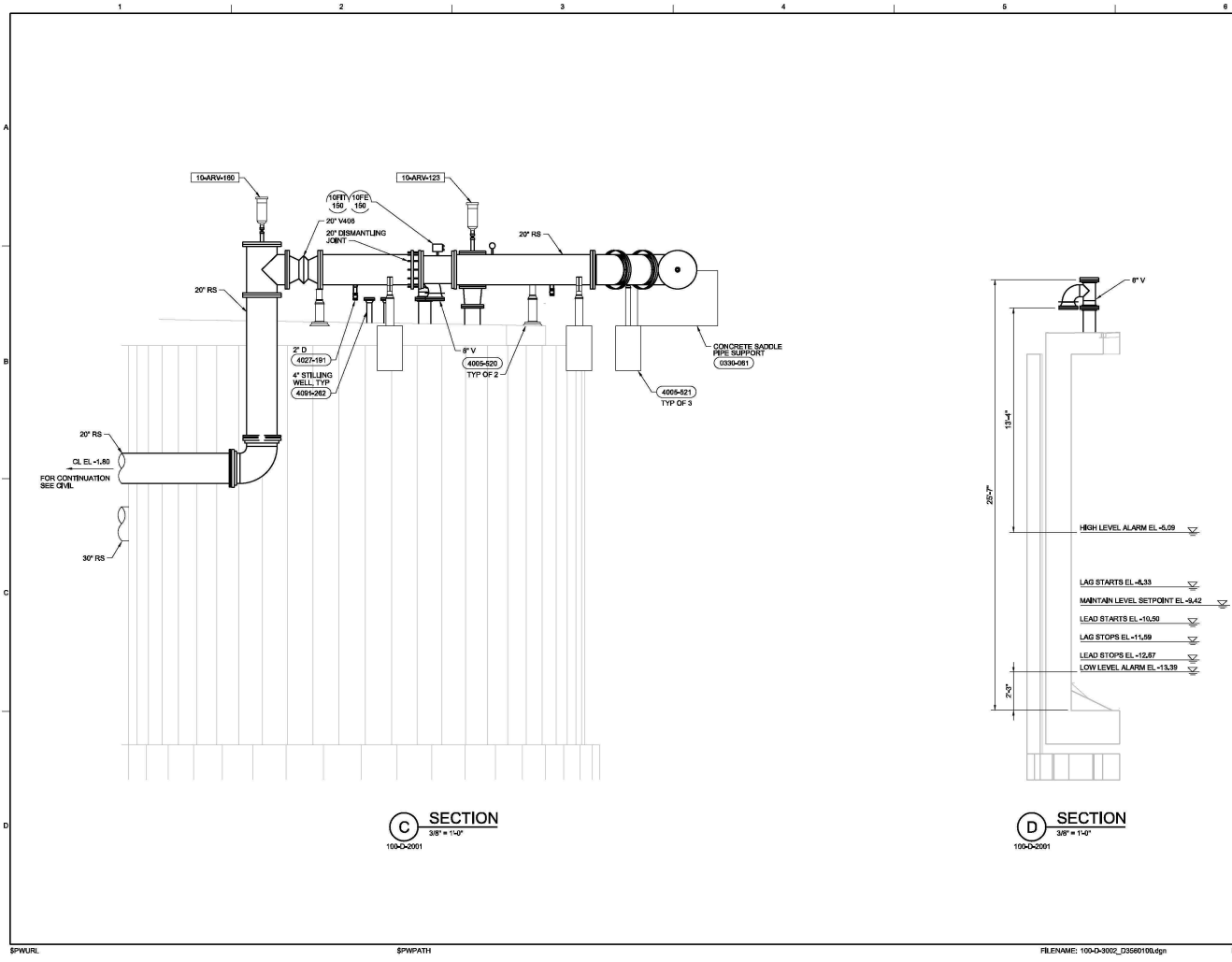
Jacobs
PROCESS MECHANICAL
PUMP STATION
SECTIONS

VERB Y SCALE
AS SHOWN OR
ORIGINAL DRAWING

DATE: DECEMBER 2023
PROJ: D3360100
DWG: 100-D-2001
SHEET: 11
OF: 11

100% DESIGN SUBMITTAL

FILENAME: 100-D-2001_D3360100.dgn PLOT DATE: 12/14/2023 PLOT TIME: 12:29:00 PM



UNIVERSITY OF HAWAII MANAGEMENT COLLEGE NAPOLI CAMPUS COUNTY OF MAUI, HAWAII NAHIKOHOLA MAUI, HAWAII		NO. 1	DATE	REVISION	BY
REVISIONS TO THIS SHEET SHALL BE IDENTIFIED BY DATE AND REVISION NUMBER.		1	12/14/2023	1	S. CHAMBLIN
DESIGNED BY: S. CHAMBLIN		2		2	MPD
CHECKED BY: S. CHAMBLIN		3		3	MPD
DRAWN BY: S. CHAMBLIN		4		4	MPD
PROJECT: UNIVERSITY OF HAWAII MANAGEMENT COLLEGE NAPOLI CAMPUS COUNTY OF MAUI, HAWAII NAHIKOHOLA MAUI, HAWAII		5		5	MPD
SHEET NO. 1 OF 1		6		6	MPD

Jacobs
PROCESS MECHANICAL
PUMP STATION
SECTIONS

VERB Y SCALE
 EITHER ONE EACH OR
 ORIGINAL DRAWING
 1" = 1'-0"

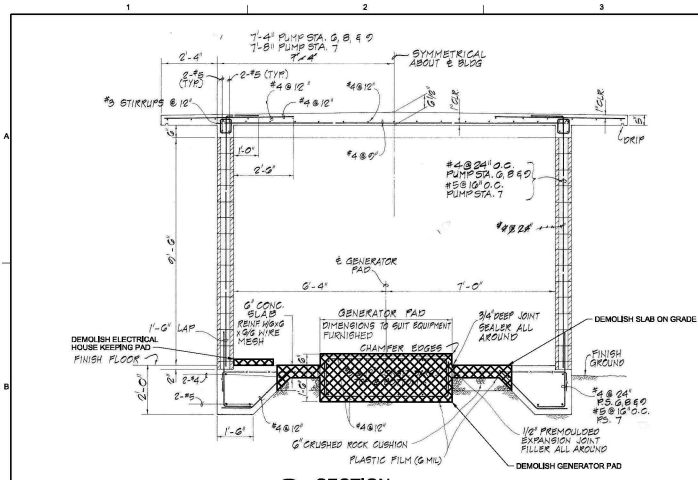
DATE: DECEMBER 2023
 PROJ: D3680100
 CWS: 100-D-2002
 SHEET: 01

100% DESIGN SUBMITTAL

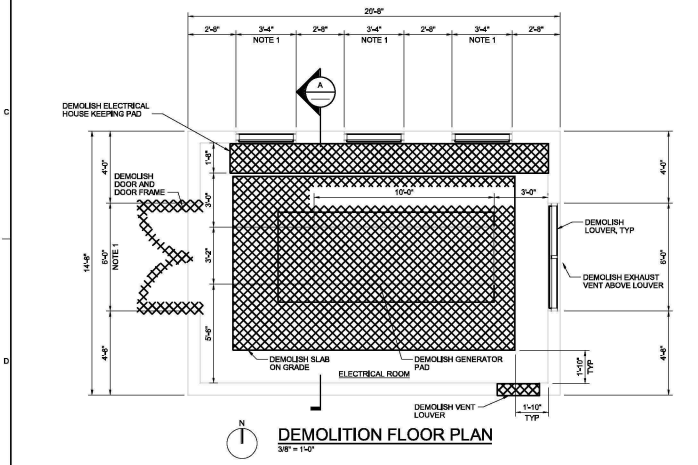
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SHEET NOTES

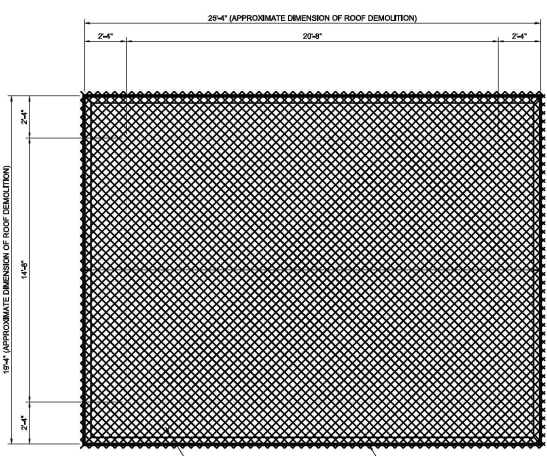
1. ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS THAT RELATE TO EXISTING WORK PRIOR TO COMMENCING NEW WORK.
2. CROSS-HATCHED AREA DENOTES GENERAL AREA OF DEMOLITION, SOME AREAS OMITTED FOR CLARITY.



SECTION A
1/2" = 1'-0"

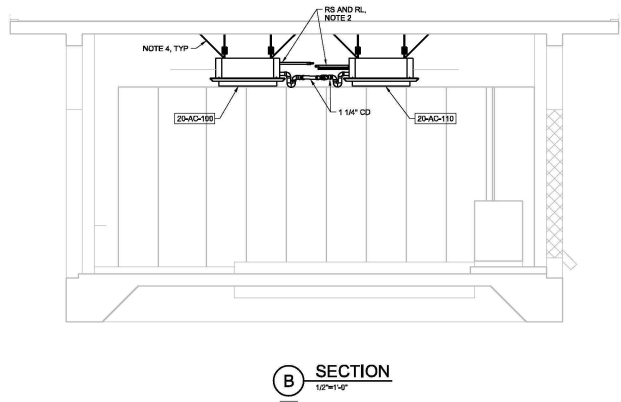
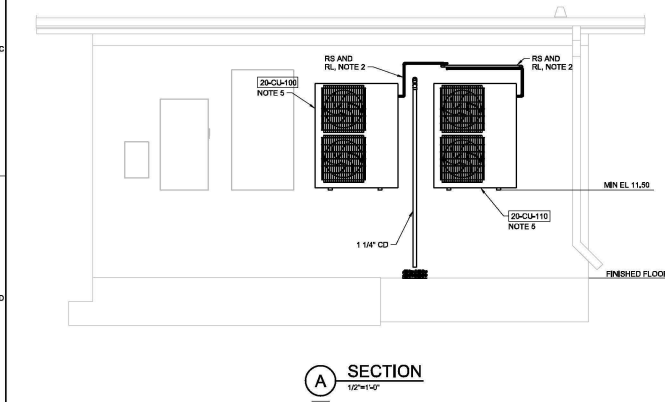
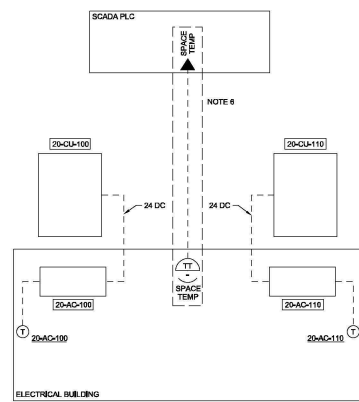
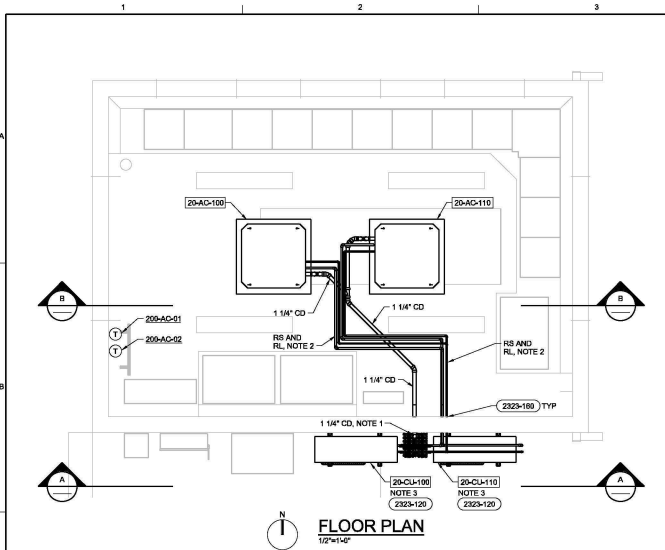


DEMOLITION FLOOR PLAN
3/8" = 1'-0"



DEMOLITION ROOF PLAN
3/8" = 1'-0"

<p>Jacobs</p> <p>DEMOLITION</p> <p>GENERATOR BUILDING</p> <p>PLAN AND SECTIONS</p>	
<p>UNIVERSITY OF HAWAII MANAGEMENT COLLEGE NAPOLI CAMPUS COUNTY OF MAUI, HAWAII MAUI-HONOKAUA MAUI HAWAII</p>	<p>DATE: DECEMBER 2023</p> <p>PROJ: D3360100</p> <p>OWN: 200-R-2001</p> <p>SHEET: 04</p>
<p>REVISION</p> <p>NO. DATE BY</p>	<p>REVISION</p> <p>NO. DATE BY</p>
<p>DESIGNED BY: T. HENNINGSEN</p> <p>CHECKED BY: S. CHAMBLIN</p> <p>DATE: 12/13/2023</p>	<p>DESIGNED BY: T. HENNINGSEN</p> <p>CHECKED BY: S. CHAMBLIN</p> <p>DATE: 12/13/2023</p>



- GENERAL NOTES**
- DISCHARGE 1" CONDENSATE PIPING INTO 1 1/2" WIDE x 1 1/2" LENGTH x 4" DEEP RIBRAP ROCK TO PREVENT SLIP HAZARD.
 - REFRIGERANT LIQUID AND REFRIGERANT SUCTION PIPING SHALL BE INSTALLED PER MANUFACTURER INSTALLATION REQUIREMENTS AND INSULATED PER 23 07 00 - HVAC INSULATION.
 - BOTTOM OF CONDENSING UNIT SHALL BE MOUNTED ABOVE FLOOD LEVEL (EL. 11.50).
 - PROVIDE SEISMIC RESTRAINTS OF AC UNITS, SIZED THROUGH DEFERRED DESIGN PER SPECIFICATION 01 85 15 - ANCHORAGE AND BRACING.
 - PROVIDE SEISMIC RESTRAINTS OF CONDENSING UNITS, SIZED THROUGH DEFERRED DESIGN PER SPECIFICATION 01 85 15 - ANCHORAGE AND BRACING.
 - TIT FOR SPECIAL TEMPERATURE NOTIFICATION SHALL BE INSTALLED PER DIVISION 40 SCADA CONTRACTOR. SEE IAC SHEETS FOR TAGGING AND INSTALLATION.

SEQUENCE OF OPERATION

SPLIT SYSTEM ROOM AIR CONDITIONER:
WHEN SPACE ROOM TEMPERATURE IS BELOW 80°F (ADJ), BOTH 20-AC-100 AND 20-AC-110 AND ASSOCIATED CONDENSING UNITS SHALL BE DE-ENERGIZED.

WHEN SPACE ROOM TEMPERATURE IS ABOVE 80°F (ADJ), AIR CONDITIONER 20-AC-100 AND ASSOCIATED CONDENSING UNIT SHALL ACTIVATE TO COOL THE SPACE AND MAINTAIN 80°F (ADJ) SPACE TEMPERATURE. 20-AC-110 AND ASSOCIATED CONDENSING UNIT SHALL REMAIN DE-ENERGIZED.

UNIT SETPOINT FOR 20-AC-100 AND 20-AC-110 SHALL BE MANUALLY ALTERNATED EVERY TWO WEEKS TO ENSURE OPERATION OF BOTH UNITS TO MAINTAIN COMPRESSOR SEALS AND MOTOR ACTIVITY.

SPACE TEMPERATURE INDICATING TRANSMITTER (TIT):
WHEN THE SPACE TIT REGISTERED A TEMPERATURE ABOVE 85°F (ADJ), TIT SHALL PROVIDE AN ALARM SCADA PLC TO INDICATE THAT SETPOINT HAS BEEN EXCEEDED AND AC UNITS SHALL BE INVESTIGATED FOR FAILURE.

Jacobs
HVAC
ELECTRICAL BUILDING
PLAN AND SECTIONS

UNIVERSITY OF HAWAII
MANAGEMENT CENTER
NAPALI HILLS OFFICE BUILDING REVISIONS
COUNTY OF HAWAII
MAUI-HONOLULU MAUI HAWAII

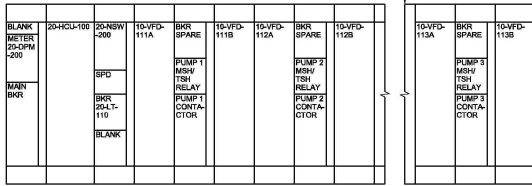
REVISIONS: 1. REVISIONS TO THE BEST AVAILABLE INFORMATION FOR THE PROJECT. 2. REVISIONS TO THE BEST AVAILABLE INFORMATION FOR THE PROJECT. 3. REVISIONS TO THE BEST AVAILABLE INFORMATION FOR THE PROJECT.

NO.	DATE	BY	CHKD.	REASON
1				

DATE: DECEMBER 2023
PROJ: D3680100
DWG: 200-MA-2001
SHEET: 1 OF 1

100% DESIGN SUBMITTAL

FILENAME: 200-MA-2001_D3680100.dgn PLOT DATE: 12/14/2023 PLOT TIME: 12:50:01 PM



20-MCC-200 ELEVATION
1/2" = 1'-0"
NOTE 5

Maul County Code Chapter 20.35
Outdoor Lighting

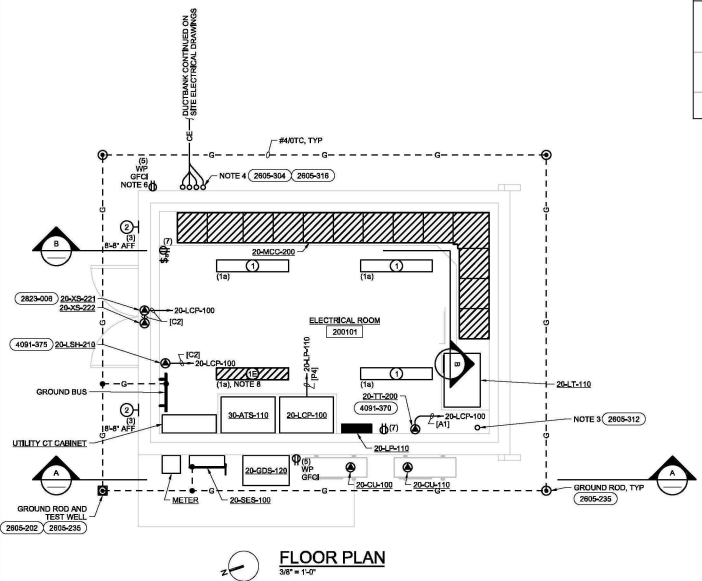
The Electrical Outdoor Lighting Installation and Equipment have been reviewed by me and to the best of my knowledge, this design substantially conforms to the requirements specified in Maul County Code Chapter 20.35.

Signature: _____ Title: _____
Printed Name: _____ State of Hawaii License Number: _____

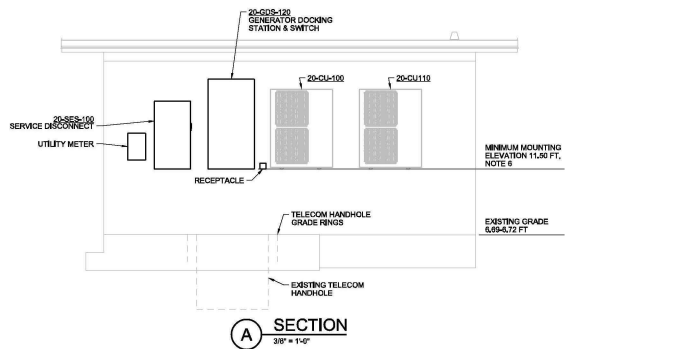
- NOTES**
1. LIGHTING AND RECEPTACLES ARE CIRCUITED FROM PANEL 20-P-1. PROVIDE IP20 CONDUIT/CONDUCTORS.
 2. PROVIDE NEW BARED GROUNDING RING AND ROOF BOND GROUND RING TO NEW GROUNDING BUS IN ELECTRICAL BUILDING.
 3. PROVIDE 2-INCH CONDUIT ANTENNA MAST MOUNTED TO ROOF. MOUNT ANTENNA 10 FEET ABOVE ROOF LEVEL. BOND MAST TO BUILDING GROUND ROD.
 4. PENETRATE CONDUITS INTO ELECTRICAL BUILDING ABOVE MCC. SEE ELECTRICAL SITE PLAN FOR DUCT/BANK CONDUIT SIZES.
 5. MCC LAYOUT IS BASED ON FIRST NAMED MANUFACTURER'S PUBLISHED MCC DESIGN GUIDES. ACTUAL ARRANGEMENT WILL BE DETERMINED BY MANUFACTURER.
 6. OUTDOOR ELECTRICAL EQUIPMENT SHALL BE MOUNTED AT 11.50 FT.
 7. LIGHTING AND RECEPTACLE CIRCUITS ARE FED FROM PANEL 20A-P-1. CIRCUIT NUMBER IS INDICATED IN PARENTHESES (E.G. PROVIDE [34"C, 2#12, 1#12G] CONDUIT/CONDUCTORS).
 8. WIRE EMERGENCY LIGHT BATTERY VOLTAGE SENSE/CHARGER TO NON-SWITCHED LEG OF CIRCUIT.

LUMINAIRE SCHEDULE

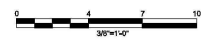
TYPE	LIGHT SOURCE	INPUT VOLTAGE	INPUT WATTS	OUTPUT LUMENS	DESCRIPTION	COLOR TEMPERATURE CCT	MANUFACTURER	PRODUCT NUMBER	MOUNTING
1	LED	120V	24	4000	LINEAR LED ENCLOSED, GASKETED, FIBERGLASS HOUSING, LOW PROFILE FROSTED ACRYLIC LENS, MEDIUM DISTRIBUTION, STAINLESS STEEL LATCHES, SURFACE MOUNT BRACKET. UL WET LOCATION.	4000K (80CRI)	LITHONIA	FEM-L48-4000LM-PPFFL-MD-MVOLT-400-80026-STSL-FEM3MS	CEILING, SURFACE MOUNT
1E	LED	120V	48	4000	SAME AS TYPE 1 WITH EMERGENCY BATTERY WITH DIAGNOSTICS	4000K (80CRI)	LITHONIA	FEM-L48-4000LM-PPFFL-MD-MVOLT-400-80026-E10WMP-C-STSL-FEM3MS	CEILING, SURFACE MOUNT
2	LED	120V	24	3120	FULL-CUTOFF WALL PACK. UL WET LOCATION. LESS THAN 2% BLUE LIGHT, PHOTOCELL, BLACK HOUSING	2800K	E2	E2-WFF-30W-HL-S-V-N-P-BL	WALL



FLOOR PLAN
3/8" = 1'-0"



SECTION A
3/8" = 1'-0"



Jacobs
ELECTRICAL
ELECTRICAL BUILDING
PLANS AND SECTION

100% DESIGN SUBMITTAL

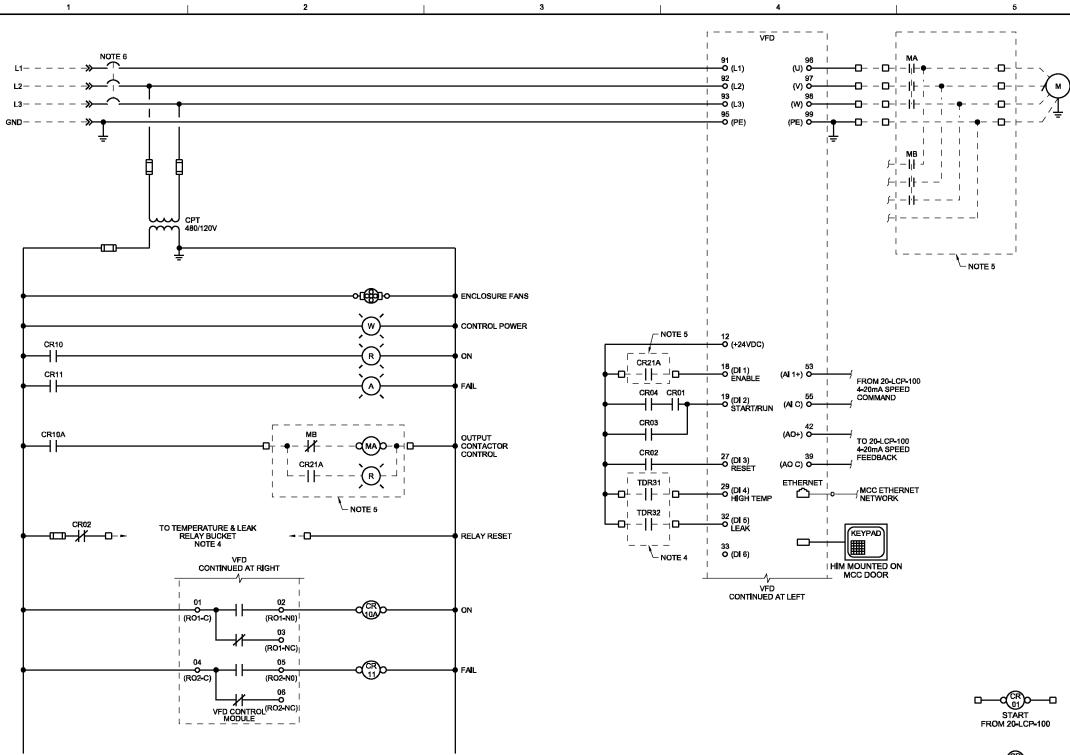
DATE: DECEMBER 2023
PROJ: D3560100
DWG: 2004-200
SHEET: 47

REVISIONS:

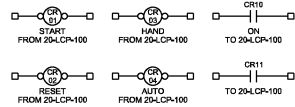
NO.	DATE	BY	APP'D	REASON
1		J. JAMES		DESIGN
2		A. GUSNETT		DESIGN
3		J. LANGMAN		DESIGN
4		S. CHAMBERLIN		DESIGN

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

DATE: DECEMBER 2023
PROJ: D3560100
DWG: 2004-200
SHEET: 47



VFD "A" CONTROL DIAGRAM
NOTE 1



EXTERNAL DISCRETE SIGNAL I/O
NOTES 2, 3

- NOTES**
- CONTROL DIAGRAMS SHOW THE GENERAL FUNCTION OF THE EQUIPMENT. MANUFACTURER SHALL REVIEW AND DEVELOP MOTOR CONTROLS FOR THE EQUIPMENT SUPPLIED PROVIDING THE IDENTIFIED FUNCTIONS. ADDITIONAL COMPONENTS MAY BE REQUIRED THAT ARE NOT REFLECTED IN THIS DIAGRAM. DIAGRAM IS BASED ON FIRST-NAME MANUFACTURER LISTED BY THE SPECIFICATIONS.
 - PROVIDE 120V INTERPOSING RELAY FOR DISCRETE INPUT SIGNAL. COIL VOLTAGE SUPPLIED BY SIGNAL SOURCE PANEL INDICATED.
 - WETTING VOLTAGE FOR DISCRETE OUTPUT CONTACTS PROVIDED BY EXTERNAL SOURCE INDICATED.
 - SUBMERSIBLE MOTOR TEMPERATURE AND LEAK PROTECTION RELAY AND INTERPOSING RELAYS ARE LOCATED IN SEPARATE MCC BUCKET FROM DRIVES AND CONTACTORS. SEE DIAGRAM ON DRAWING 204-4-1103.
 - CONTACTORS FOR REDUNDANT DRIVE ISOLATION, CONTACTORS AND DRIVE SELECTION CONTROLS ARE LOCATED IN SEPARATE MCC BUCKET FROM DRIVE. SEE DIAGRAM ON DRAWING 204-4-1103.
 - SEE ONE-LINE DIAGRAM FOR CIRCUIT BREAKER RATING.

DESIGNED BY: J. LANGRISH		DATE: 2023-12-08
CHECKED BY: J. LANGRISH		DATE: 2023-12-08
APPROVED BY: S. CHAMBERLAIN		DATE: 2023-12-08
PROJECT: 204-CP-100		
SHEET: 1 OF 1		

REVISIONS:

NO.	DATE	DESCRIPTION
1	2023-12-08	ISSUED FOR CONSTRUCTION

DESIGNED BY: J. LANGRISH
CHECKED BY: J. LANGRISH
APPROVED BY: S. CHAMBERLAIN

Jacobs
ELECTRICAL
ELECTRICAL BUILDING
VFD-A MOTOR CONTROL DIAGRAM

VERIFY SCALE
BASED ON REV. OR ORIGINAL DRAWING

DATE: DECEMBER 2023
PROJ: D3860100
DWG: 204-CP-100
SHEET: 1 OF 1

100% DESIGN SUBMITTAL

TRUE NORTH
SCALE: 1 IN. = 30 FT.

TMK (2) 4-4-01: 14

TMK (2) 4-4-01: 11

TMK (2) 4-4-01: 12

TMK (2) 4-4-01: 02

TMK (2) 4-4-01: 08

TMK (2) 4-4-01: 09

TMK (2) 4-4-01: 06

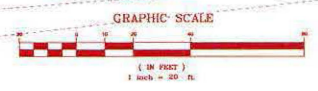
TMK (2) 4-4-01: 07

TMK (2) 4-4-14: 23

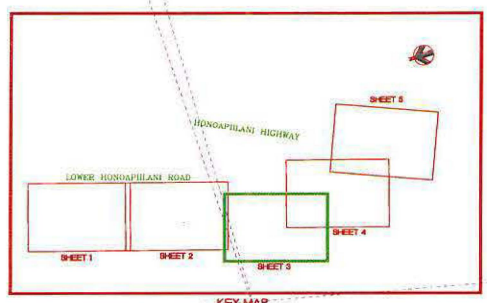
TOPOGRAPHIC SURVEY MAP COUNTY OF MAUI NAPII SEWER FORCE MAIN #1 REPLACEMENT AT NAPII, HONOKOWAI, MAUI, HAWAII

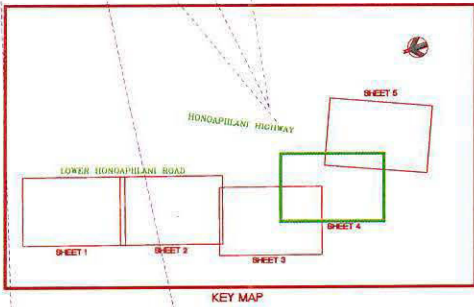
TMK: 4-4-01 & 14
SCALE 1 in. = 30 ft. NOVEMBER 08, 2022
JOB NO. 22001-13 FIELD BOOK: 3687 / 35
DIN: SN-M CHK: FLR: AG

CONTROLPOINT SURVEYING, INC.
1100 South King Street, Suite 1100
Honolulu, Hawaii 96814



STANDARD CONDITIONS
UNLESS OTHERWISE SPECIFIED, ALL MEASUREMENTS SHALL BE MADE TO THE CENTERLINE OF THE ROADWAY.
ELEVATIONS SHALL BE TO THE CENTERLINE OF THE ROADWAY.
ELEVATIONS SHALL BE TO THE CENTERLINE OF THE ROADWAY.
LOCATED AT THE INTERSECTION OF HONOAPIILANI HIGHWAY AND LOWER HONOAPIILANI ROAD.





TMK: (2) 4-4-01: 02

TMK: (2) 4-4-01: 02

TMK: (2) 4-4-14: 06

TMK: (2) 4-4-01: 06

TMK: (2) 4-4-01: 08

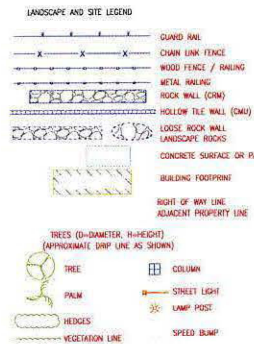


GENERAL NOTES:
 1. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
 2. THE LOCATION OF ALL DIMENSIONS IS SHOWN BY THE DIMENSION LINES.
 3. THE DIMENSIONS ARE TO BE TAKEN AS SHOWN UNLESS OTHERWISE NOTED.
 4. THE DIMENSIONS ARE TO BE TAKEN AS SHOWN UNLESS OTHERWISE NOTED.
 5. THE DIMENSIONS ARE TO BE TAKEN AS SHOWN UNLESS OTHERWISE NOTED.
 6. THE DIMENSIONS ARE TO BE TAKEN AS SHOWN UNLESS OTHERWISE NOTED.
 7. THE DIMENSIONS ARE TO BE TAKEN AS SHOWN UNLESS OTHERWISE NOTED.
 8. THE DIMENSIONS ARE TO BE TAKEN AS SHOWN UNLESS OTHERWISE NOTED.
 9. THE DIMENSIONS ARE TO BE TAKEN AS SHOWN UNLESS OTHERWISE NOTED.
 10. THE DIMENSIONS ARE TO BE TAKEN AS SHOWN UNLESS OTHERWISE NOTED.

ABBREVIATIONS:

AC	ADJUSTED CENTER	LP	LAMP POST
AD	ADJUSTED VALUE	MP	MANHOLE
BE	BENCH MARK	MR	MANHOLE
BP	BANK AND PROTECT	OR	ORANGE
BR	BRIER	PA	PROTECTIVE RAILING
BS	BURIED SURFACE	PE	PIPE
BU	BURIED SURFACE	PH	POST HOLE OR HOLE
CA	CANAL	PI	PROTECTIVE IRON PIPE
CB	CANAL BANK	PL	PROTECTIVE LAMP POST
CC	CANAL CHANNEL	PM	PROTECTIVE MANHOLE
CD	CANAL DRAIN	PP	PROTECTIVE PIPE
CE	CANAL EMBANKMENT	PS	PROTECTIVE SIGN
CF	CANAL FILL	PT	PROTECTIVE TIE
CG	CANAL GROUT	PU	PROTECTIVE UNDERPASS
CH	CANAL HEAD	PV	PROTECTIVE VALVE
CI	CANAL INLET	RA	RAILROAD
CJ	CANAL JUNCTION	RB	RAILROAD BRIDGE
CK	CANAL KICK	SC	SHOULDER
CL	CANAL LIFT	SD	SHOULDER DRAIN
CM	CANAL MOUND	SE	SEWER
CN	CANAL NEST	SH	SHOULDER
CO	CANAL OUTFALL	SI	SHOULDER INLET
CP	CANAL PILE	SK	SKINNY MANHOLE
CQ	CANAL PILE	SL	SHOULDER LIGHT
CR	CANAL RAIL	SM	SHOULDER MARK
CS	CANAL SIGN	SN	SHOULDER NEST
CT	CANAL TIE	SO	SHOULDER OUTFALL
CU	CANAL UNDERPASS	SP	SHOULDER PILE
CV	CANAL VALVE	SR	SHOULDER RAIL
CW	CANAL WALL	SS	SHOULDER SIGN
CX	CANAL WALL	ST	SHOULDER SIGN
CY	CANAL WALL	SV	SHOULDER SIGN
CZ	CANAL WALL	SW	SHOULDER SIGN

NOTES:
 1. THE MAP AND ASSOCIATED DATA FILE IS A REPRESENTATIVE SURVEY OF THE SUBJECT PARCELS. THE PROJECT SITE IS SHOWN FROM AERIAL PHOTOGRAPHS AND FIELD SURVEY. THE LOCATION OF ALL DIMENSIONS IS SHOWN BY THE DIMENSION LINES.
 2. THE DIMENSIONS ARE TO BE TAKEN AS SHOWN UNLESS OTHERWISE NOTED.
 3. THE DIMENSIONS ARE TO BE TAKEN AS SHOWN UNLESS OTHERWISE NOTED.
 4. THE DIMENSIONS ARE TO BE TAKEN AS SHOWN UNLESS OTHERWISE NOTED.
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 9. THE DIMENSIONS ARE TO BE TAKEN AS SHOWN UNLESS OTHERWISE NOTED.
 10. THE DIMENSIONS ARE TO BE TAKEN AS SHOWN UNLESS OTHERWISE NOTED.

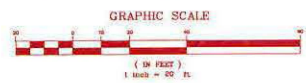


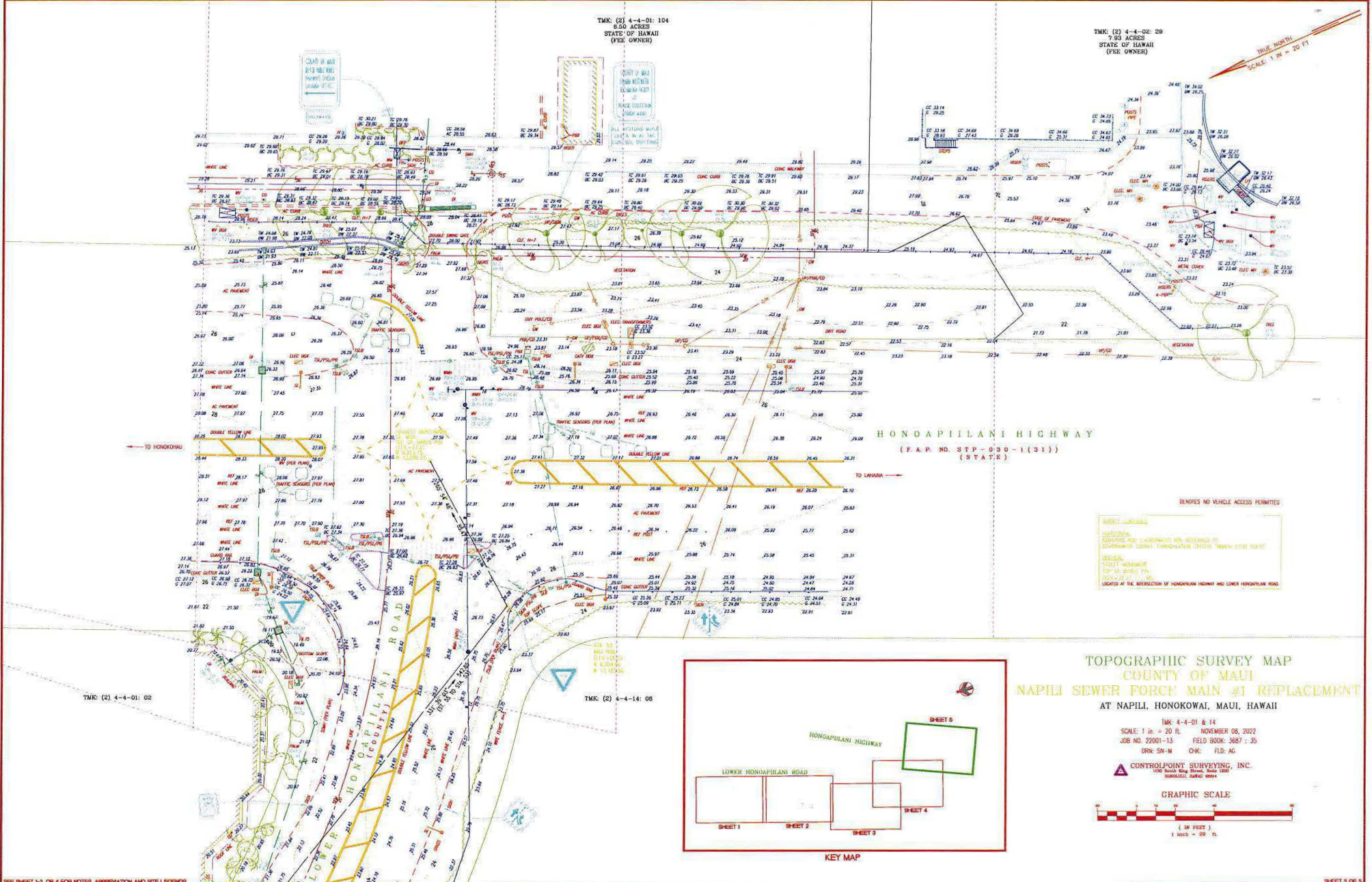
DENOTES NO VEHICLE ACCESS PERMITTED

**TOPOGRAPHIC SURVEY MAP
 COUNTY OF MAUI
 NAPILI SEWER FORCE MAIN #1 REPLACEMENT
 AT NAPILI, HONOKOWAI, MAUI, HAWAII**

TMK: 4-4-01 & 14
 SCALE: 1 IN. = 20 FT. NOVEMBER 08, 2022
 JOB NO. 22001-11 FIELD BOOK: 1867 : 35
 DRN: SH-M CHK: FLD: PG

CONTROLPOINT SURVEYING, INC.
 1100 South King Street, Suite 200
 Honolulu, Hawaii 96813





TMK (2) 4-4-01: 104
 6.50 ACRES
 STATE OF HAWAII
 (FEE OWNER)

TMK (2) 4-4-02: 29
 4.94 ACRES
 STATE OF HAWAII
 (FEE OWNER)



HONOAPILANI HIGHWAY
 (F.A.P. NO. STP-030-1(31)
 (STATE))

DENOTES NO VEHICLE ACCESS PERMITTED

NOTES

1. EXISTING AND PROPOSED SEWER LINES SHOWN TO CORRESPOND TO THE HAWAIIAN STATE ENGINEERING BOARD'S RECORD DRAWING.
2. EXISTING AND PROPOSED SEWER LINES SHOWN TO CORRESPOND TO THE HAWAIIAN STATE ENGINEERING BOARD'S RECORD DRAWING.
3. EXISTING AND PROPOSED SEWER LINES SHOWN TO CORRESPOND TO THE HAWAIIAN STATE ENGINEERING BOARD'S RECORD DRAWING.
4. EXISTING AND PROPOSED SEWER LINES SHOWN TO CORRESPOND TO THE HAWAIIAN STATE ENGINEERING BOARD'S RECORD DRAWING.

TOPOGRAPHIC SURVEY MAP
COUNTY OF MAUI
NAPII SEWER FORCE MAIN #1 REPLACEMENT
 AT NAPII, HONOKOWAI, MAUI, HAWAII

TMK 4-4-01 & 14
 SCALE: 1 in. = 20 ft. NOVEMBER 08, 2022
 JOB NO. 22001-13 FIELD BOOK: 3687 ; 35
 DRN: SN-M CHK: FLD-AG

CONTROLPOINT SURVEYING, INC.
 1000 KAHUNA ROAD, SUITE 1000
 HONOLULU, HAWAII 96813

