

County of Hawai'i

DEPARTMENT OF PUBLIC WORKS – ENGINEERING DIVISION

GRADING PERMIT NO. 6108

Fee: \$ waived
Check only – payable to:
County Director of Finance

Owner: C of H Department of Environmental Management Solid Waste Division Address: 345 Kekuanao'a Street, Suite 41 Phone: (808) 961-8270
Hilo, Hawaii 96720

Civil Eng. / Surveyor: Robin McKinney, P.E. Address: 99 Aupuni Street, Suite 202 Phone: (808)356-1276
License No.: 13480-C Hilo, Hawaii 96720

Contractor: Jas W. Glover, Ltd Address: 890 Leilani Street Phone: (808) 935-0871
License No.: ABC-3 Hilo, Hawaii 96720

Location: Ocean View, Hawaii Tax Map Key: (3) 9-2-150:060 Cut (CY): 4,408

Parcel Area (acre): 21.6397 Area to be Graded (acre): 2.1 Disposal Site: TBD

Start Date: 02/19/2019 1/24/19 Completion Date: 08/17/2019 1/22/19 Fill (CY): 3,021
(minimum 2 working days after issuance date) Borrow Site: TBD

Remarks: _____

Submit to: DLNR.Intake.SHPD@Hawaii.gov

1. STATE DLNR – HISTORIC PRESERVATION DIVISION

Approved:

Received By: _____ Date: _____

Log No. 2018.01435 Doc. No. 1812SN001 Date: _____

2. PLANNING DEPARTMENT

Approved:

Received By: Normen Date: 1/10/2019

[Signature] Date: 1/10/2019

3. DEPARTMENT OF PUBLIC WORKS

Approved for Permit Issuance:

Received By: [Signature] Date: 1/10/19

[Signature] Date: 1/22/19

I hereby certify that all work as requested above will conform to Chapter 10 of the Hawai'i County Code.

Owner: [Signature] Date: 1-16-19

Return to the Department of Public Works, Engineering Division, upon completion of work.

Certification Accepted by: _____ Date: _____
(DPW inspector / engineer) Romeo

DAVID Y. IGE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION
KAKUHIHEWA BUILDING
601 KAMOKILA BLVD, STE 555
KAPOLEI, HAWAII 96707

SUZANNE D. CASE
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ROBERT K. MASUDA
FIRST DEPUTY

JEFFREY T. PEARSON, P.E.
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

December 3, 2018

William A. Kucharski, Director
County of Hawaii
Department of Environmental Management
345 Kekūānāo'a Street, Suite 41
Hilo, HI 96720
cohdem@hawaiicounty.gov

IN REPLY REFER TO:
Log No. 2018.01435
Doc. No. 1812SN001
Archaeology

Dear Mr. Kucharski:

**SUBJECT: Chapter 6E-8 Historic Preservation Review – REVISED
County of Hawai'i Grading Permit Application for Ocean View
Transfer Station and Recycling Center, Project No. SW-4325
Kahuku Ahupua'a, Ka'ū District, Island of Hawai'i
TMK: (3) 9-2-150:060**

This letter provides the State Historic Preservation Division's (SHPD's) revised review comments regarding the proposed *Ocean View Transfer Station and Recycling Center*. Our office received the current submittal from SSFM International on June 18, 2018. This submittal indicates that the County of Hawai'i Department of Environmental Management-Solid Waste Division (COH DEM) will grade a 2.1-acre portion of the 21.6397-acre County-owned parcel. In a letter dated October 5, 2018 (Log No. 2018.01435, Doc. No. 1810SN04), SHPD requested additional information. SHPD received the requested information on October 10, 2018.

The submittal indicates that the COH DEM proposes construction of a new transfer station with associated access and State highway improvements to support the proposed facility. The project will consist of improvements to the along Mamalahoa Highway, grading and graveling an area for a proposed concrete pad for the temporary transfer station, and, installation of a driveway and turn around area. The project area is a 2.1-acre portion of the 21.6-acre parcel.

The project will be funded by the County of Hawai'i and will take place within State property and highway rights-of-ways. The submittal indicates that in a letter dated November 29, 2007 (Log No. 2007.3580, Doc. No. 0711MD43), SHPD reviewed a previous request for a letter of no effect for the proposed project. In that letter, SHPD made a determination of no historic properties affected based on the negative findings presented in a field inspection report (Rechtman 2007).

The current submittal indicates that based on the current information, the COH DEM has determined that the proposed project's effect determination is no historic properties affected. SHPD **concurs** with the County's project effect determination of **no historic properties affected**. Pursuant to HAR §13-275-7(e), when the SHPD agrees that the action will not affect any significant historic properties, this is the SHPD's written concurrence and historic preservation review ends. The historic preservation review process is ended. The permit issuance process may proceed.

Attach to permit: In the unlikely event that subsurface historic resources, including human skeletal remains, structural remains, cultural deposits, sand deposits, or sink holes are identified during the grading work, cease work

Mr. Kucharski
December 3, 2018
Page 2

in the immediate vicinity of the find, protect the find from additional disturbance, and contact the State Historic Preservation Division at (808) 933-7651.

Please contact Sean Nāleimaile at (808) 933-7653 or at Sean.P.Naleimaile@hawaii.gov for questions regarding archaeological resources or this letter.

Aloha,

Alan Downer

Alan S. Downer, PhD
Administrator, State Historic Preservation Division
Deputy State Historic Preservation Officer

cc. Robyn Ito (rito@ssfm.com)



JAS. W. GLOVER, LTD.

GENERAL CONTRACTORS
 P.O. Box 579, Honolulu, HI 96809
 License No. ABC-3
 An Equal Opportunity Employer

2019 Transmittal 40

Project [1884] - Ocean View Transfer Station and Recycling Center
View Date 1/16/2019
Job No. SW-4325

Jas. W. Glover, Ltd.
 P.O. Box 579
 Honolulu, HI 96809
 Phone: (808) 935-0871
 Fax: (808) 961-9237

Transmittal No. 1884-00005

<p>To Mr. Ben Ishii County of Hawaii, Department of Public Works, Engineering Division 101 Pauahi Street Suite 7 Hilo, HI 96720 USA</p> <p>From Ms. Kelly Kealoha (Jas. W. Glover, Ltd.)</p> <p>Subject SW-4325 Ocean View Transfer Station and Recycling Center Grading Permit Application</p>	<p>Date 1/16/2019</p> <p>Items listed are being sent</p> <p><input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Under Separate Cover</p>
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We are transmitting the following to you:

- | | | | | |
|---|--|---|---|---|
| <input type="checkbox"/> Product Data | <input type="checkbox"/> Samples | <input type="checkbox"/> Shop Drawings | <input type="checkbox"/> O&M Manuals | <input checked="" type="checkbox"/> Plans |
| <input type="checkbox"/> Architectural Drawings | <input type="checkbox"/> Letters | <input type="checkbox"/> Specifications | <input type="checkbox"/> Prints | <input type="checkbox"/> Addenda |
| <input type="checkbox"/> Engineering Drawings | <input type="checkbox"/> Change Orders | <input type="checkbox"/> Submittal | <input type="checkbox"/> Grading Permit Application | |

Items

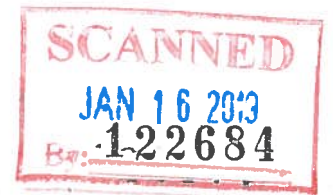
No.	Description	Copies	Reason	Action	Due
01.	Grading Permit Application	01	For Approval		
02.	State Historic Preservation Review Letter	01	For Approval		
03.	Ocean View Transfer Station & Recycling Center Full Size Plan Sets	03	As Requested		

Remarks Please see attached Grading Permit Application for the Ocean View Transfer Station and Recycling Center Project No. SW-4325 for your review and approval.

Received By

Printed Name

Date



OCEAN VIEW TRANSFER STATION AND RECYCLING CENTER

PROJECT NO. SW-4325

OCEAN VIEW, HAWAII

TMK: (3) 9-2-150: 060

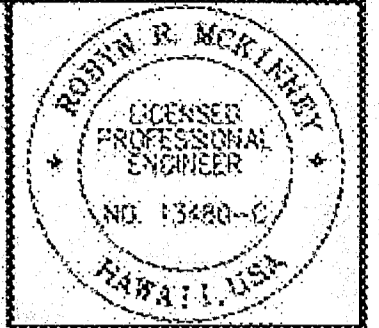
COUNTY OF HAWAII
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
SOLID WASTE DIVISION
345 KEKUANAOA STREET, SUITE 41
HILO, HAWAII 96720

PREPARED BY:
SSFM INTERNATIONAL, INC.
99 AUPUNI STREET, SUITE 202
HILO, HAWAII 96720

APPROVED for GRADING
PURPOSES ONLY
[Signature]
Dept. of Public Works
4/30/18

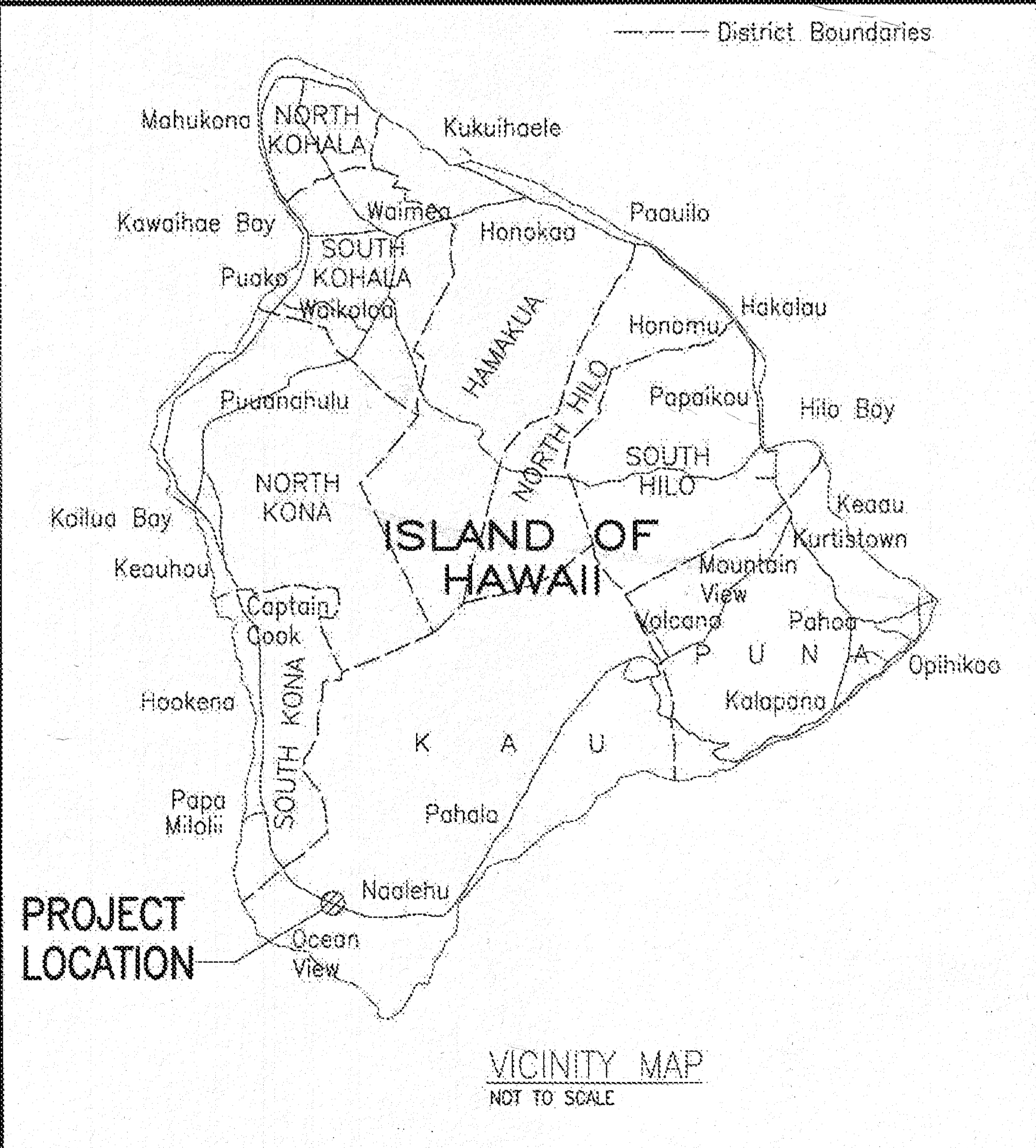
Contractor and/or Owner shall comply with Chapter 11-55, Water Pollution Control, Hawaii Administration Rules, Dept. of Health, which requires an NPDES permit for certain construction activity.

9-2-150-060 Should any unanticipated archaeological sites be uncovered by the grading activity, all work shall cease in the immediate area and the contractor shall notify the State Historic Preservation Office at 327-2490. No work shall resume until the contractor obtains clearance from the Historic Preservation Office.

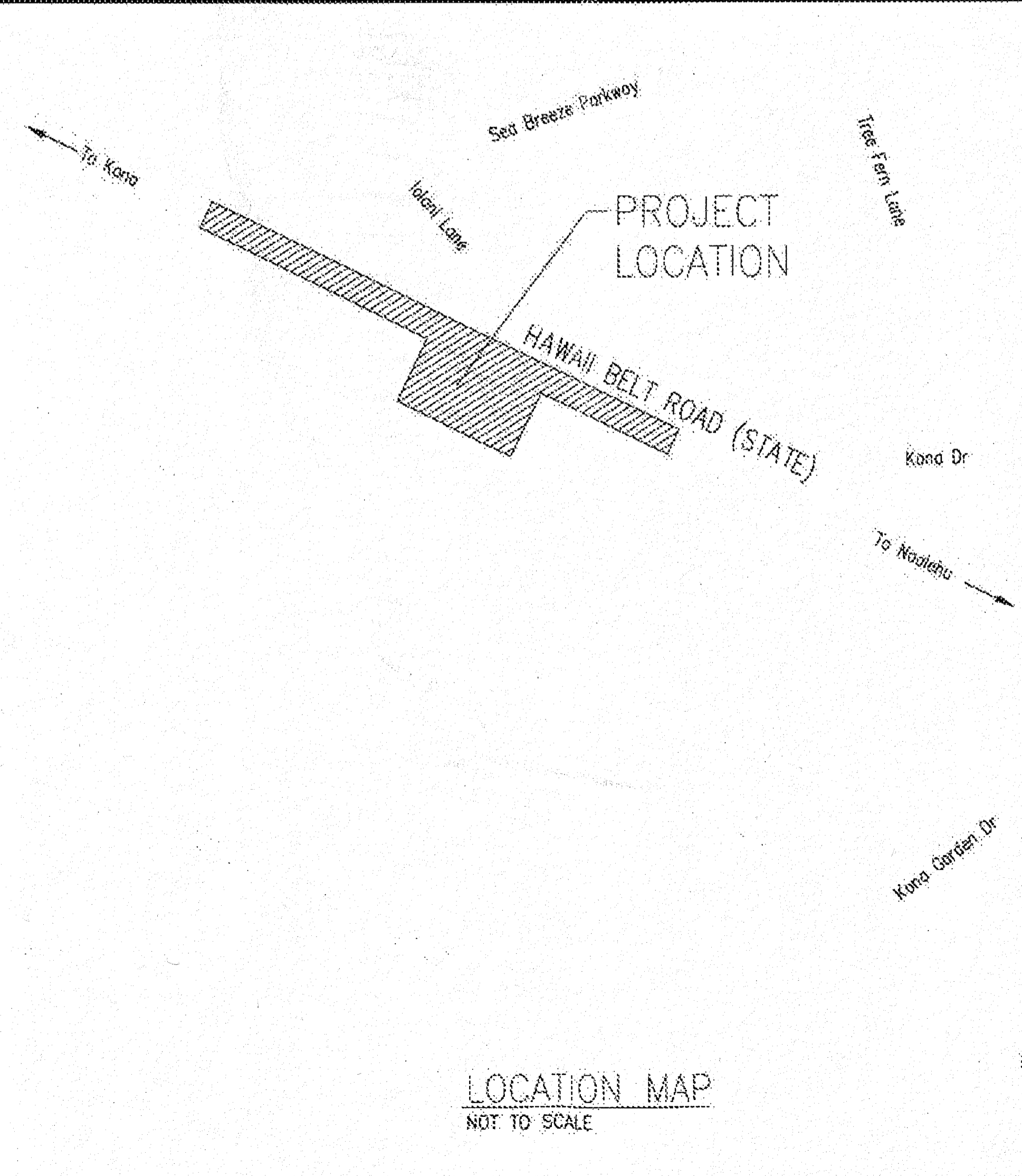


SSFM International, Inc.
99 Aupuni Street, Suite 202
Hilo, Hawaii 96720

VICINITY MAP



LOCATION MAP



DRAWING INDEX

SHEET	DWG NO.	DESCRIPTION
1	T-1	TITLE SHEET AND DRAWING INDEX
2	C-1.0	GENERAL NOTES
3	C-1.1	NOTES AND ABBREVIATIONS
4	C-2.0	EXISTING CONDITION, DEMOLITION, AND EROSION CONTROL PLAN - ONSITE IMPROVEMENTS
5	C-2.1	EXISTING CONDITION, DEMOLITION, AND EROSION CONTROL PLAN - OFFSITE IMPROVEMENTS
6	C-3.0	TYPICAL SECTIONS - OFFSITE IMPROVEMENTS
7	C-4.0	OVERALL SITE PLAN
8	C-4.1	TRANSFER STATION SITE PLAN - ONSITE IMPROVEMENTS
9	C-4.2	SITE PLAN - OFFSITE IMPROVEMENTS
10	C-5.0	STRIPING AND SIGNAGE PLAN - OFFSITE IMPROVEMENTS
11	C-6.0	TRANSFER STATION GRADING PLAN - ONSITE IMPROVEMENTS
12	C-6.1	GRADING PLAN - OFFSITE IMPROVEMENTS
13	C-6.2	TRANSFER STATION DRIVEWAY PROFILE AND GRADING SECTIONS
14	C-7.0	CIVIL DETAILS
15	C-7.1	DOUBLE SWING CHAIN LINK GATE DETAIL
16	C-7.2	DRYWELL DETAIL (ADD ALT 1)
17	C-8.0	TRAFFIC CONTROL PLAN - OFFSITE IMPROVEMENTS

APPROVALS:

[Signature] 11/20/18
MAYOR, COUNTY OF HAWAII

[Signature] 8/10/18
DIRECTOR, DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, COUNTY OF HAWAII

[Signature] 11/10/18
DIRECTOR, DEPARTMENT OF PUBLIC WORKS, COUNTY OF HAWAII (FOR GRADING PURPOSES ONLY)

[Signature]
DEPARTMENT OF TRANSPORTATION, STATE OF HAWAII, HIGHWAYS DIVISION, DISTRICT ENGINEER

OCEAN VIEW
TRANSFER STATION
AND RECYCLING CENTER
PROJECT NO. SW-4325
TMK: (3) 9-2-150: 060

TITLE SHEET AND DRAWING INDEX

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DATE: JULY 2018
SHEET NUMBER: T-1
1 of 17 SHEETS

W:_DRAW_3R_PROJECTS\2018_182.DWG DLM HOSE TRANSFER STATION\01 DWA DRAWING\311 TITLE SHEET.DWG 8/28/2018 12:30 AM RTO

CONSTRUCTION NOTES

1. THE SCOPE OF WORK FOR THIS PROJECT IS TO PROVIDE A NEW TRANSFER STATION AREA ON TMK: (3) 9-2-150:060, AND ASSOCIATED ACCESS AND STATE HIGHWAY IMPROVEMENTS TO SUPPORT THE FACILITY. THE WORK WITHIN THE STATE HIGHWAY RIGHT-OF-WAY, AS WELL AS THE INITIAL 50 FEET OF ACCESS ROAD INTO THE PROPERTY IS CONSIDERED "OFF-SITE IMPROVEMENTS", AND IS LABELED AND SUCH IN THE DRAWINGS. ALL REMAINING WORK WITHIN PRIVATE PROPERTY IS CONSIDERED "ON-SITE IMPROVEMENTS". DEM RESERVES THE RIGHT TO AWARD THE PROJECT IN WHOLE OR SOLELY AWARD THE OFF-SITE PORTION. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THIS DELINEATION IN THE DRAWINGS AND SHOULD SEPARATE THEIR BID ACCORDINGLY.
2. ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2005 EDITION AND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1984, AS AMENDED, OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF HAWAII.
3. ALL EXCAVATION WORK CALLED FOR ON THE PLANS AND NOT ITEMIZED IN THE PROPOSAL AND ALL EXCAVATION WORK NOT CALLED FOR BUT REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE CONSIDERED INCIDENTAL.
4. THE TOPOGRAPHIC SURVEY WAS PROVIDED BY DEM. SSFM IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE TOPOGRAPHIC SURVEY. EXISTING CONDITIONS SHOWN HEREIN ARE BASED UPON THE TOPOGRAPHIC SURVEY. THE CONTRACTOR SHOULD VERIFY EXISTING CONDITIONS BEFORE SUBMITTING A BID FOR THE WORK.
5. VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER FOR DIRECTION.
6. NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION ACTIVITY SO AS TO CAUSE FALLING ROCK, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATER COURSES. SHOULD SUCH VIOLATIONS OCCUR, THE COSTS INCURRED FOR ANY REMEDIAL ACTION SHALL BE PAYABLE BY THE CONTRACTOR.
7. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY DEM FROM THEIR SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. ALL DAMAGED PORTIONS SHALL BE REPLACED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE AFFECTED UTILITY COMPANY AND SHALL BE THE CONTRACTORS RESPONSIBILITY. PERSONAL INJURY RESULTING FROM CONTACT WITH EXISTING UTILITIES SHALL BE THE CONTRACTORS RESPONSIBILITY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF CHAPTER 54, WATER QUALITY STANDARDS, AND CHAPTER 55, WATER POLLUTION CONTROL, OF TITLE 11, ADMINISTRATIVE RULES OF THE STATE DEPARTMENT OF HEALTH.
9. THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION OR BETTER, ALL IMPROVEMENTS DAMAGED AS A RESULT OF THE CONSTRUCTION, INCLUDING PAVEMENTS, EMBANKMENTS, CURBS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALLS, FENCES, ETC. UNLESS PROVIDED FOR SPECIFICALLY IN THE PROPOSAL. DEMOLITION AND RESTORATION OF EXISTING ITEMS SHALL BE INCIDENTAL.
10. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES TO VERIFY THE ACTUAL LOCATIONS OF ALL UTILITIES IN THE PROJECT PRIOR TO EXCAVATING. THE CONTRACTOR SHALL COORDINATE ALL WORK.
11. THE CONTRACTOR SHALL PROVIDE ACCESS TO AND FROM DRIVEWAYS AND PUBLIC STREETS AT ALL TIMES.
12. ALL WORK CALLED FOR ON THE PLANS AND NOT ITEMIZED IN THE PROPOSAL AND ALL WORK NOT CALLED FOR BUT REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT, SHALL BE CONSIDERED INCIDENTAL.
13. NO BLASTING SHALL BE ALLOWED ON THIS PROJECT.
14. THE CONTRACTOR SHALL REMOVE ALL EXISTING TREES WITHIN PROJECT AREA, UNLESS OTHERWISE NOTED ON PLANS.
15. FOR BENCHMARKS, SEE SHEET C-4.0.

CONDITIONS - GRUBBING, GRADING, STOCKPILING

1. ALL WORK SHALL CONFORM TO CHAPTER 10 OF HAWAII COUNTY CODE. SHOULD A GRADING PERMIT BE REQUIRED, NO WORK SHALL COMMENCE UNTIL THE DPW APPROVES A GRADING PERMIT.
2. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS RESULTING FROM THIS WORK. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE DPW SHALL BE PAYABLE BY THE CONTRACTOR.
3. THE CONTRACTOR, AT ITS OWN EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING AREAS FREE FROM DUST NUISANCES. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL RULES OF THE STATE DEPARTMENT OF HEALTH, HAR 11-60.1, FUGITIVE DUST.
4. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES (HAR), TITLE 11, CHAPTER 55, WATER POLLUTION CONTROL AND CHAPTER 54, WATER QUALITY STANDARDS, AND THE EROSION AND SEDIMENTATION CONTROL STANDARDS AND GUIDELINES OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF HAWAII.
5. THE CONTRACTOR SHALL SOD OR PLANT ALL SLOPES AND EXPOSED AREAS IMMEDIATELY AFTER THE GRADING WORK HAS BEEN COMPLETED.
6. FILL SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
7. THE CONTRACTOR SHALL INFORM THE DPW OF THE LOCATION OF THE DISPOSAL AND/OR BORROW SITE(S) REQUIRED FOR THIS PROJECT WHEN AN APPLICATION FOR A GRADING PERMIT IS MADE. THE DISPOSAL AND/OR BORROW SITE(S) MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
8. NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS ANYTIME WITHOUT PRIOR APPROVAL FROM THE DEPARTMENT OF PUBLIC WORKS. GRADING WORK ON NORMAL WORKING HOURS SHALL BE BETWEEN 7:00 A.M. TO 3:30 P.M.
9. ALL FILL SHALL BE LAID IN 8-INCH LOOSE LIFTS AND SHALL BE COMPACTED TO A MINIMUM OF 95% COMPACTON PER ASTM D-1557 TEST.

10. THE CONTRACTOR SHALL REMOVE ALL VEGETATION, INCLUDING LARGE ROOTS AND OTHER DELETERIOUS MATERIAL AND THE ONSITE SURFACE SOIL SHALL BE COMPLETELY REMOVED TO EXPOSE THE UNDERLYING WEATHERED BASALT BEFORE PLACING FILL MATERIAL.
11. THE ONSITE SURFACE SOIL SHALL NOT BE REUSED AS BACKFILL MATERIAL. EXCAVATED BASALT MAY BE REUSED AS STRUCTURAL FILL PROVIDED IT IS CRUSHED TO A WELL-GRADED, 3-INCH MINUS CONDITION PRIOR TO REUSE.
12. THE CONTRACTOR SHALL ASSUME ALL COSTS TO RETAIN A QUALIFIED INDEPENDENT TESTING LABORATORY TO PERFORM SOILS AND COMPACTION TESTS, AND SUBMIT TEST RESULTS TO THE ENGINEER.
13. SHOULD ANY UNANTICIPATED ARCHAEOLOGICAL SITE(S) BE UNCOVERED, ALL WORK SHALL CEASE IN THE IMMEDIATE AREA AND THE DLNR, HISTORIC PRESERVATION DIVISION (808-692-8015) SHALL BE NOTIFIED. NO WORK SHALL RESUME UNTIL CLEARANCE HAS BEEN OBTAINED FROM THE HISTORIC PRESERVATION DIVISION.
14. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER HANDLING, STORAGE AND/OR DISPOSAL OF ALL WASTE GENERATED BY THIS WORK. WASTE MATERIAL SHALL NOT BE DEPOSITED AT ANY OF THE COUNTY TRANSFER STATIONS, BUT SHALL BE TRANSPORTED FOR DISPOSAL TO EITHER THE WEST HAWAII OR HILO LANDFILL.
15. THE CONTRACTOR SHALL VERIFY GRADES/ELEVATIONS SHOWN ON PLANS AND REPORT ANY DISCREPANCY TO THE ENGINEER PRIOR BEGINNING OF WORK.
16. IF EXCESS MATERIAL IS TAKEN TO ANOTHER SITE(S) BESIDES AN APPROVED LANDFILL, THE CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMIT(S).

NOTES FOR CONSTRUCTION WITHIN STATE RIGHT-OF-WAY

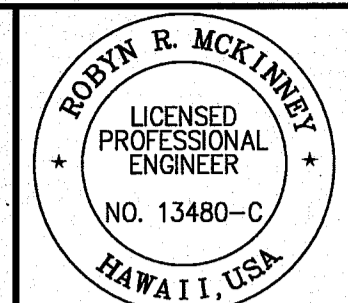
1. THE CONTRACTOR SHALL OBTAIN A PERMIT TO PERFORM WORK UPON STATE HIGHWAYS FROM STATE HIGHWAY DIVISION, AT 50 MAKALA STREET, HILO, HAWAII 96720, PRIOR TO COMMENCEMENT OF WORK WITHIN THE STATE'S HIGHWAY RIGHT-OF-WAY.
2. CONSTRUCTION AND RESTORATION OF ALL EXISTING HIGHWAY FACILITIES WITHIN THE STATE'S RIGHT-OF-WAY, INCLUDING THE LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC, SHALL BE IN ACCORDANCE WITH THE CURRENT HAWAII STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND PUBLIC WORKS CONSTRUCTION, AND THE SPECIFICATIONS FOR INSTALLATION OF MISCELLANEOUS IMPROVEMENTS WITHIN STATE HIGHWAYS, OF THE STATE HIGHWAYS DIVISION.
3. WORK MAY BE PERFORMED ONLY BETWEEN THE HOURS OF 8:30 A.M. AND 3:00 P.M., MONDAY THROUGH FRIDAY, EXCEPT STATE HOLIDAYS, AND DEPARTMENT OF TRANSPORTATION FURLOUGH DAYS, UNLESS WHEN OTHERWISE APPROVED IN WRITING BY THE DIRECTOR OF THE DEPARTMENT OF TRANSPORTATION.

DURING WORK HOURS, ONLY ONE LANE OF TRAFFIC SHALL BE CLOSED, UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT ENGINEER.

AT CERTAIN LOCATIONS, "NO LANE CLOSURE" WILL BE ALLOWED DURING THE "BACK TO SCHOOL JAM", THANKSGIVING WEEKEND, CHRISTMAS/NEW YEAR PERIOD AND AT OTHER TIMES AS DIRECTED BY THE HIGHWAYS DIVISION.
4. THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES, AND OTHER PROTECTIVE FACILITIES, AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE, AND SAFETY OF PUBLIC TRAFFIC. ALL SUCH PROTECTIVE FACILITIES AND PRECAUTIONS TO BE TAKEN SHALL CONFORM WITH THE "ADMINISTRATIVE RULES OF HAWAII GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS," ADOPTED BY THE DIRECTOR OF TRANSPORTATION, AND THE CURRENT U.S. FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART VI - TEMPORARY TRAFFIC CONTROL."

IF LANE CLOSURES ARE REQUIRED DURING CONSTRUCTION, A TRAFFIC CONTROL PLAN SHALL BE INCORPORATED INTO THE CONSTRUCTION PLANS AND MUST BE APPROVED BY THE DIVISION PRIOR TO THE ISSUANCE OF THE PERMIT.
5. THE MINIMUM PAVEMENT STRUCTURE SHALL CONSIST OF:
 - A. RESIDENTIAL DRIVEWAYS, ON MINOR HIGHWAYS:
 - (1) 2-1/2" ASPHALT CONCRETE (MIX IV), 6" AGGREGATE BASE COURSE AND 12" SUBBASE, OR 2-1/2" ASPHALT CONCRETE AND 6" ASPHALT CONCRETE BASE COURSE
 - (2) 6" OF CLASS "A" CONCRETE REINFORCED WITH 6" X 6" - W2.9 X W2.9 WIRE MESH ON 12" AGGREGATE SUBBASE, IF DEEMED NECESSARY BY THE ENGINEER.
 - B. COMMERCIAL DRIVEWAYS AND SIDEROADS ON MINOR HIGHWAYS:
 - (1) 2-1/2" ASPHALT CONCRETE (MIX IV), 6" ASPHALT CONCRETE BASE COURSE AND 12" SUBBASE, OR 4" ASPHALT CONCRETE (MIX IV) AND 8" ASPHALT CONCRETE BASE COURSE
 - (2) 8" OF CLASS "A" CONCRETE REINFORCED WITH 6" X 6" - W2.9 X W2.9 WIRE MESH ON 12" AGGREGATE SUBBASE, IF DEEMED NECESSARY BY THE ENGINEER.
 - C. CHANNELIZED INTERSECTIONS ON MAJOR HIGHWAYS:
 - 4" ASPHALT CONCRETE (MIX IV), 8" ASPHALT CONCRETE BASE COURSE AND 12" AGGREGATE SUBBASE, OR 4" ASPHALT CONCRETE (MIX IV) AND 12" ASPHALT CONCRETE BASE COURSE.
6. NO MATERIAL AND/OR EQUIPMENT SHALL BE STOCKPILED OR OTHERWISE STORED WITHIN THE HIGHWAY RIGHT-OF-WAY, EXCEPT AT LOCATIONS DESIGNATED IN WRITING AND APPROVED BY THE DISTRICT ENGINEER.
7. COMPACTION TESTS SHALL BE TAKEN IN ACCORDANCE WITH THE SPECIFICATIONS FOR INSTALLATION OF MISCELLANEOUS IMPROVEMENTS WITHIN STATE HIGHWAYS, AS FOLLOWS:
 - A. SUBBASE: ONE (1) COMPACTION TEST PER LIFT PER 200 LINEAL FEET OF ROADWAY.
 - B. BASE COURSE: ONE (1) COMPACTION TEST PER LIFT PER 200 LINEAL FEET OF ROADWAY.
 - C. ONE (1) COMPACTION TEST PER LIFT PER 300 LINEAL FEET OF TRENCH.
 - D. A COPY OF THE TEST RESULTS SHALL BE SUBMITTED TO THE DISTRICT ENGINEER.

8. THE CONTRACTOR SHALL TAKE A PROFILE ALONG THE CENTERLINE OF THE PROPOSED UTILITY TRENCH BOTH BEFORE COMMENCING TRENCH EXCAVATION WORK AND AFTER TRENCH HAS BEEN REPAVED. PROFILES SHALL BE SUBMITTED TO THE DISTRICT ENGINEER AND SHALL BE USED TO VERIFY THE ROADWAY SURFACE HAS BEEN RESTORED TO ITS ORIGINAL CONDITION OR SMOOTHER.
9. THE DISTANCE BETWEEN THE PAVED SURFACE TO THE TESTING EDGE OF A TEN-FOOT LONG STRAIGHT EDGE BETWEEN TWO POINTS SHALL NOT EXCEED 3/16 INCH.
10. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE AND SAFE NON-SKID BRIDGING MATERIAL, INCLUDING SHORING, OVER TRENCHES IN PAVEMENT AREAS. THE BRIDGING SHALL BE ABLE TO SUPPORT ALL TYPES OF VEHICULAR TRAFFIC.
11. UNLESS OTHERWISE NOTED, NO TRENCH SHALL BE OPENED MORE THAN 300 FEET IN ADVANCE OF INSTALLED AND TESTED PIPELINE AND/OR DUCTLINE.
12. EXISTING DRAINAGE SYSTEMS SHALL BE FUNCTIONAL AT ALL TIMES.
13. THE CONTRACTOR SHALL EXERCISE CARE TO MINIMIZE DAMAGES TO EXISTING HIGHWAY IMPROVEMENTS. ALL DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR, AT ITS EXPENSE, TO THE SATISFACTION OF THE DISTRICT ENGINEER.
14. APPROVAL OF PERMIT CONSTRUCTION PLANS SHALL BE VALID FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF NOTIFICATION OF APPROVAL TO THE APPLICANT. IN THE EVENT CONSTRUCTION DOES NOT COMMENCE WITHIN THIS ONE-YEAR PERIOD, THE APPLICANT WILL BE REQUIRED TO RESUBMIT THE CONSTRUCTION PLANS FOR THE DIVISION'S REVIEW AND RE-APPROVAL.
15. ALL REGULATORY, GUIDE, AND CONSTRUCTION SIGNS AND BARRICADES SHALL HAVE A HIGH-INTENSITY REFLECTIVE BACKGROUND.
16. THE CONTRACTOR SHALL INFORM THE STATE HIGHWAYS' PERMIT OFFICE (933-8866) AT LEAST TWO (2) DAYS PRIOR TO CLOSING ANY LANES.
17. DRIVEWAYS SHALL BE KEPT OPEN UNLESS THE OWNERS OF THE PROPERTIES USING THESE RIGHTS-OF WAY ARE OTHERWISE PROVIDED FOR SATISFACTORILY.
18. WHERE PEDESTRIAN WALKWAYS EXIST THEY SHALL BE MAINTAINED IN A SAFE AND PASSABLE CONDITION, OR OTHER FACILITIES FOR PEDESTRIANS SHALL BE PROVIDED. PASSAGES BETWEEN WALKWAYS AT INTERSECTIONS SHALL LIKEWISE BE PROVIDED. ALL WALKWAYS SHALL CONFORM TO ADA REQUIREMENTS.
19. THE CONTRACTOR SHALL REFERENCE, TO THE SATISFACTION OF THE DISTRICT ENGINEER, ALL EXISTING TRAFFIC SIGNS, POSTS, AND PAVEMENT MARKINGS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNS, POSTS, AND PAVEMENT MARKINGS DISTURBED BY ITS ACTIVITIES, AT ITS EXPENSE, UNLESS DIRECTED BY THE DISTRICT ENGINEER OR HIS REPRESENTATIVE.
20. THE CONTRACTOR SHALL EXERCISE CARE WHEN PERFORMING WORK IN OR ADJACENT TO THE STATE HIGHWAY RIGHT-OF-WAY. DAMAGES TO THE EXISTING FACILITIES SHALL BE IMMEDIATELY REPORTED TO THE RESPECTIVE UTILITY COMPANIES, AND/OR CITY OR STATE AGENCIES. THE REPAIR WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
21. THE CONTRACTOR SHALL NOTIFY THE STATE HIGHWAYS' HIGHWAY LIGHTING AND TRAFFIC SIGNAL SUPERVISOR (933-8866), THREE (3) WORKING DAYS PRIOR TO COMMENCING WORK.
22. THE PERMIT TO PERFORM WORK UPON STATE HIGHWAY MAY BE REVOKED BECAUSE OF DEFAULT IN ANY OF THE FOLLOWING, BUT NOT LIMITED TO, CONDITIONS:
 - A. WORK PERFORMED BEFORE OR AFTER PERMITTED HOURS.
 - B. FAILURE TO MAINTAIN ROADWAY SURFACES IN A SMOOTH AND SAFE CONDITION.
 - C. FAILURE TO CLEAN UP CONSTRUCTION DEBRIS GENERATED FROM PROJECT WORK.
 - D. FAILURE TO PROVIDE PROPER TRAFFIC CONTROL.
 - E. FAILURE TO REPLACE DAMAGED PAVEMENT MARKINGS AND SIGNS.
23. THE CONTRACTOR SHALL NOTIFY THE STATE HIGHWAYS PERMIT OFFICE (933-8866) AT LEAST TWO DAYS PRIOR TO PERFORMING ANY TRENCH RESTORATION WORK. THIS WORK SHALL INCLUDE ANY BACKFILLING AND COMPACTING OF TRENCH MATERIAL; ANY PLACING AND COMPACTING OF BASE COURSE MATERIAL; AND ANY PAVING OPERATIONS. ANY TRENCH RESTORATION WORK PERFORMED BY THE CONTRACTOR THAT IS NOT WITNESSED BY A STATE REPRESENTATIVE WILL BE REQUIRED TO BE REMOVED AND RESTORED WITH A STATE REPRESENTATIVE PRESENT. ALL RESTORATION WORK WILL BE AT THE CONTRACTOR'S EXPENSE.
24. TEMPORARY COLD MIX TRENCH PATCHES WILL BE PERMITTED IN ANY GIVEN AREA FOR A MAXIMUM DURATION OF TWO WEEKS, AND SHALL BE A MINIMUM OF 2 INCHES THICK. ALL TEMPORARY PATCHES SHALL BE PLACED OVER PROPERLY PLACED AND COMPACTED BACKFILL AND BASE COURSE LAYERS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY PATCHES AND TO MAKE REPAIRS TO UNSATISFACTORY PATCHES WITHIN 24 HOURS.
25. THE CONTRACTOR WILL MAKE EVERY EFFORT TO MINIMIZE THE USE AND THE DURATION OF USE OF STEEL PLATES. ALL STEEL PLATES SHALL HAVE A NON-SKID SURFACE. THE STATE MAY REQUIRE THE BACKFILLING AND PATCHES OF TRENCHES DUE TO THE EXCESSIVE USAGE OF STEEL PLATES.
26. PLASTIC MARKING TAPE. PROVIDE PLASTIC MARKING TAPE THAT IS ACID AND ALKALI RESISTANT POLYETHYLENE FILM 6 INCHES WIDE WITH MINIMUM THICKNESS OF 0.004 INCH. PROVIDE TAPE WITH MINIMUM STRENGTH OF 1750 PSI LENGTHWISE AND 1500 PSI CROSSWISE. MANUFACTURE TAPE WITH INTEGRAL WIRES, FOIL BACKING OR OTHER MEANS TO ENABLE DETECTION BY A METAL DETECTOR WHEN THE TAPE IS BURIED UP TO 3 FEET DEEP. MANUFACTURE TAPE SPECIFICALLY FOR MARKING AND LOCATING UNDERGROUND UTILITIES. PROVIDE THE METALLIC CORE OF THE TAPE ENCASED IN A PROTECTIVE JACKET OR PROVIDED WITH OTHER MEANS TO PROTECT IT FROM CORROSION. CONFORM TO THE FOLLOWING TAPE COLOR AND BEAR A CONTINUOUS PRINTED INSCRIPTION DESCRIBING THE SPECIFIC UTILITY.
 - RED: ELECTRIC
 - YELLOW: GAS, OIL, DANGEROUS MATERIALS
 - ORANGE: TELEPHONE, TELEGRAPH, TELEVISION, POLICE AND FIRE COMMUNICATIONS
 - BLUE: WATER SYSTEMS
 - GREEN: SEWER SYSTEMS
27. THE CONTRACTOR SHALL PROVIDE THE DISTRICT ENGINEER WITH AS-BUILT PLANS UPON COMPLETION OF THE WORK DONE IN THE STATE RIGHT-OF-WAY. THIS SHALL BE DONE PRIOR TO THE DEPARTMENT'S RELEASE OF THE PERFORMANCE BOND.



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REVISION	DATE	DESCRIPTION	MADE BY	APPROVED

OCEAN VIEW
TRANSFER STATION
AND RECYCLING CENTER
PROJECT
TMK: (3) 9-2-150: 060

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DATE: JULY 2018
SHEET NUMBER: C-10
2 of 17 SHEETS

W:_CIVIL_3D PROJECTS\2016_182,000 DEM HOME TRANSFER STATION 01 CIVIL DRAWINGS\CT - CIVIL NOTES.DWG 7/27/2018 8:11 AM KSW

EROSION CONTROL NOTES AND BEST MANAGEMENT PRACTICES (BMPs):

- MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY DEMOLITION, CLEARING AND GRUBBING WORK IS INITIATED. THESE MEASURES SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
- CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF CLEARED SURFACE AREA.
- ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY.
- CONSTRUCT FACILITIES TO RETAIN ON-SITE WASTEWATER SUCH AS WATER FOR DUST CONTROL AND CONSTRUCTION EXIT WASH WATER AND PERCOLATE INTO THE SOIL. WASH WATER AFTER CLEANING CONCRETE TRUCKS SHALL BE CONTAINED IN A SEPARATE WASH AREA LINED WITH AN IMPERMEABLE LAYER AND NOT ALLOWED TO OVERFLOW.
- MAINTAIN SEDIMENT TRAPS AT DISCHARGE POINTS DURING SITE WORK AND UNTIL PERMANENT EROSION CONTROLS ARE IN PLACE.
- PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN TWENTY (20) CALENDAR DAYS PRIOR TO SITE DISTURBANCE.
- TEMPORARY SOIL STABILIZATION WITH APPROPRIATE VEGETATION SHALL BE APPLIED ON AREAS THAT WILL REMAIN UNFINISHED FOR MORE THAN THIRTY (30) CALENDAR DAYS.
- THE CONTRACTOR, AT ITS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE DONE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS OF THE LOCAL AGENCY.
- INSPECT SEDIMENT BASIN ON A WEEKLY BASIS. REMOVE SEDIMENT AND DEBRIS AS DIRECTED BY THE ENGINEER.
- STORM WATER FLOWING TOWARD THE CONSTRUCTION AREA SHALL BE DIVERTED BY USING APPROPRIATE CONTROL MEASURES AS PRACTICAL.
- CONTRACTOR SHALL CONSTRUCT 50' MIN. X 30' STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 3/C-7.0, AT A LOCATION OF THE CONTRACTOR'S CHOOSING. PROVIDE CONSTRUCTION ENTRANCE FOR EACH INGRESS AND EGRESS. THE STABILIZED CONSTRUCTION ENTRANCE WILL BE REMOVED UPON JOB COMPLETION.
- ALL GRADING WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL AGENCY STANDARDS.
- CONTRACTOR SHALL ADJUST BEST MANAGEMENT PRACTICES TO ADDRESS EROSION CONTROL AS CONSTRUCTION SEQUENCING PROGRESSES. THE MEASURES SHOWN HEREON REPRESENT MINIMUM EROSION CONTROL MEASURES.
- THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY BMP MEASURES UNTIL THE ENTIRE AREA IS STABILIZED. ALL BMP MEASURES SHALL BE REMOVED IMMEDIATELY AFTER THE AREA IS COMPLETELY STABILIZED.

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
GENERAL NOTES:**

A. GENERAL REQUIREMENTS

- RETAIN A COPY OF THE NPDES APPLICATION, INCLUDING OTHER RELATED MATERIALS, AND THIS PERMIT AT THE JOB SITE OR AT A NEARBY FIELD OFFICE.
- DESIGN, OPERATE, IMPLEMENT, AND MAINTAIN THE PROJECT SITE-SPECIFIC BEST MANAGEMENT PRACTICES (BMPs) PLAN TO ENSURE THAT STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES WILL NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF APPLICABLE STATE WATER QUALITY STANDARDS.
- IMPLEMENT THE PROJECT SITE-SPECIFIC BMPs PLAN AS OFTEN AS NEEDED TO IMPROVE THE QUALITY OF STORM WATER DISCHARGES OR WHEN INSTRUCTED BY THE DIRECTOR OF HEALTH (DIRECTOR).
- NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE BASIC WATER QUALITY CRITERIA AS SPECIFIED IN HAR, CHAPTER 11-54, SECTION 11-54-4.
- INSPECT, AT A MINIMUM OF ONCE PER WEEK, THE RECEIVING STATE WATERS, STORM WATER RUNOFF AND CONTROL MEASURES AND BMPs TO DETECT VIOLATIONS OF AND CONDITIONS WHICH MAY CAUSE OR CONTRIBUTE TO A VIOLATION OF THE BASIC WATER QUALITY CRITERIA AS SPECIFIED IN HAR, CHAPTER 11-54, SECTION 11-54-4 (E.G., THE PERMITTEE SHALL LOOK AT STORM WATER DISCHARGES AND RECEIVING STATE WATERS FOR TURBIDITY, COLOR, FLOATING OIL AND GREASE, FLOATING DEBRIS AND SCUM, MATERIALS THAT WILL SETTLE, SUBSTANCES THAT WILL PRODUCE TASTE IN THE WATER OR DETECTABLE OFF-FLAVOR IN FISH, AND INSPECT FOR ITEMS THAT MAY BE TOXIC OR HARMFUL TO HUMAN OR OTHER LIFE).
- IMMEDIATELY STOP, REDUCE, OR MODIFY CONSTRUCTION, OR IMPLEMENT NEW OR REVISED BMPs AS NEEDED TO STOP OR PREVENT A VIOLATION OF THE BASIC WATER QUALITY CRITERIA AS SPECIFIED IN HAR, CHAPTER 11-54, SECTION 11-54-4.
- REVIEW THE EFFECTIVENESS AND ADEQUACY OF THE IMPLEMENTED SITE-SPECIFIC BMPs PLAN(S) AND EROSION AND SEDIMENT CONTROL (ESC) PLAN(S) AT A MINIMUM OF ONCE PER WEEK, AND UPDATE THE PLAN AS OFTEN AS NECESSARY. ANY CHANGE(S) TO THE SITE-SPECIFIC BMPs PLANS AND/OR ESC PLANS OR CORRECTION(S) TO INFORMATION ALREADY ON FILE WITH THE CWB SHALL BE MAINTAINED ONSITE AND BE AVAILABLE UPON REQUEST.

B. REPORTING REQUIREMENTS

- SUBMIT THE FOLLOWING INFORMATION IN ACCORDANCE WITH PART B.7. FOR REVIEW AND COMMENT AT LEAST 30 CALENDAR DAYS BEFORE THE START OF CONSTRUCTION ACTIVITIES. ALL QUESTIONS/CONCERNS THAT THE DOH MAY HAVE MUST BE ANSWERED TO THE SATISFACTION OF THE CWB.
 - THE GENERAL CONTRACTOR INFORMATION
 - THE COPY OF THE COUNTY-APPROVED ESC PLAN.

- NOTIFY THE DIRECTOR OF THE CONSTRUCTION START DATE IN ACCORDANCE WITH PART B.7. WITHIN SEVEN (7) CALENDAR DAYS BEFORE THE START OF CONSTRUCTION ACTIVITIES.
- COMPLETE AND SUBMIT THE SOLID WASTE DISCLOSURE FORM FOR CONSTRUCTION SITES TO THE DOH, SOLID AND HAZARDOUS WASTE BRANCH, SOLID WASTE SECTION, AS SPECIFIED ON THE FORM, UNLESS ALREADY SUBMITTED UNDER THE PREVIOUSLY ISSUED NPDES PERMIT. THE FORM CAN BE DOWNLOADED AT: <https://eha-cloud.doh.hawaii.gov/epermit/FormVersion/29789198-b170-4da7-bcca-dbd493b45d8a#1/>.
- SUBMIT ANY CHANGES TO INFORMATION ON ITEM NOS. 1, 3, 4, 5, OR 16 OF THE CWB-INDIVIDUAL NPDES FORM C TO THE CWB AS SOON AS CHANGES ARISE. THE CHANGES SHALL BE SUBMITTED IN ACCORDANCE WITH PART B.7. THE PERMITTEE SHALL PROPERLY ADDRESS ALL RELATED CONCERNS AND/OR COMMENTS TO THE CWB'S SATISFACTION.
- IMMEDIATELY NOTIFY THE DIRECTOR OF ALL INCIDENCES OF NON-COMPLIANCE AND IDENTIFY THE POLLUTANT(S) SOURCE(S) AND THE PROPOSED AND IMPLEMENTED CONTROL OR MITIGATIVE MEASURES AS REQUIRED IN SECTION 16 OF THE "STANDARD NPDES PERMIT CONDITIONS."
- SUBMIT THE NOTICE OF CESSATION (NOC) IN ACCORDANCE WITH PART B.7. WITHIN 14 CALENDAR DAYS OF COMPLETION OF THE SUBJECT PROJECT.
- THE PERMITTEE SHALL DEVELOP AND SUBMIT A FACILITY-SPECIFIC WASTE LOAD ALLOCATION (WLA) IMPLEMENTATION AND MONITORING PLAN TO THE DIRECTOR WHEN A TOTAL MAXIMUM DAILY LOAD, WHICH SPECIFIES WLAS APPLICABLE TO THE PERMITTEE'S DISCHARGE, IS APPROVED BY THE EPA WITHIN ONE (1) YEAR OF NOTIFICATION OF THE APPROVAL DATE.

C. BEST MANAGEMENT PRACTICES (BMP)

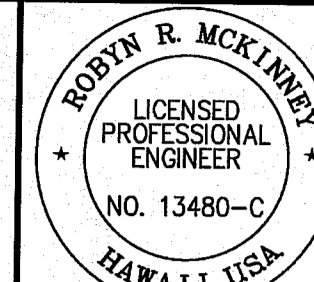
- THE PERMITTEE SHALL:
 - REFRAIN FROM PERFORMING ANY WORK DURING HEAVY RAINSTORMS.
 - PREVENT LOOSE PARTICLES, SAND, SOIL, SILT, AND OTHER CONSTRUCTION DEBRIS AT THE PROJECT SITE FROM BEING WASHED AWAY BY STORM WATER RUNOFF TO DRAINAGE SYSTEMS AND TO STATE WATERS.
 - REMOVE EXCAVATED/WASTE MATERIALS AS SOON AS POSSIBLE OR AT THE END OF EACH WORK DAY. THE MATERIALS SHALL BE DISPOSED OF TO A STATE AND/OR COUNTY-APPROVED LANDFILL SITE.
 - NOT DISCHARGE WATER USED FOR DUST CONTROL TO STATE WATERS.
 - NOT DISCHARGE WATER USED FOR IRRIGATION TO STATE WATERS.
 - NOT DISCHARGE HYDROTESTING EFFLUENT TO STATE WATERS WITHOUT AN APPROPRIATE NPDES PERMIT.
 - NOT DISCHARGE DEWATERING EFFLUENT TO STATE WATERS WITHOUT AN APPROPRIATE NPDES PERMIT.
 - NOT STOCKPILE UNPROTECTED MATERIALS ON-SITE WITHOUT IMPLEMENTING THE APPROPRIATE BMPs FOR THE STOCKPILE(S).
 - WASH-DOWN VEHICLES AND/OR EQUIPMENT AND CONCRETE TRUCK DRUMS ONLY AT DESIGNATED AREAS AND NOT DISCHARGE THE WASH WATERS TO STATE WATERS. THE CONCRETE WASH WATER SHALL NOT BE ALLOWED TO INFILTRATE INTO THE GROUND.
 - ASSURE THAT THE IMPLEMENTED BMPs ARE EFFECTIVE AND THE DISCHARGE EFFLUENT IS IN COMPLIANCE WITH THE BASIC STATE WATER QUALITY STANDARDS.
- THE FOLLOWING SPECIAL SPECIAL CONDITIONS APPLY TO ALL LAND DISTURBANCE WORK CONDUCTED UNDER THIS PERMIT:
 - CONSTRUCTION MANAGEMENT TECHNIQUES
 - CLEARING AND GRUBBING SHALL BE HELD TO THE MINIMUM NECESSARY FOR GRADING AND EQUIPMENT OPERATION.
 - CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF THE CLEARED SURFACE AREA.
 - CONSTRUCTION SHALL BE STAGED OR PHASED FOR LARGE PROJECTS. AREAS OF ONE (1) PHASE SHALL BE STABILIZED BEFORE ANOTHER PHASE IS INITIATED. STABILIZATION SHALL BE ACCOMPLISHED BY TEMPORARILY OR PERMANENTLY PROTECTING THE DISTURBED SOIL SURFACE FROM RAINFALL IMPACTS AND RUNOFF.
 - EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN. THESE MEASURES SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
 - ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY, FOR EXAMPLE, WEEKLY IN DRY PERIODS AND WITHIN 24 HOURS AFTER ANY RAINFALL OF 0.25 INCHES OR GREATER WITHIN A 24-HOUR PERIOD. DURING PROLONGED RAINFALL, DAILY CHECKING IS NECESSARY. THE PERMITTEE SHALL MAINTAIN RECORDS OF CHECKS AND REPAIRS.

TOPOGRAPHIC SURVEY NOTES:

- MAP DELINEATES OBSERVABLE FEATURES AS OF SEPTEMBER 23, 26, OCTOBER 6, 7, & NOVEMBER 15-17, 2016.
- ORIGIN OF ELEVATION SHOWN ON MAP ARE FROM HIGHWAY CENTERLINE MONUMENT STA. 523+10 FROM DPW JOB NO. P-2129.
- PROPERTY CORNERS ARE STAKED WITH 1/2" PIPE.
- EXISTING GROUND IS ROUGH A'A LAVA. TRANSECTS WERE GRUBBED ACROSS THE SITE FROM MAUKA TO MAKAI AT FIFTY (50) FOOT INTERVALS FOR ACCESSIBILITY AND ELEVATION MEASUREMENTS. ELEVATIONS OF ROUGH A'A BETWEEN TRANSECTS MAY BE 1' TO 2' HIGHER THAN MEASUREMENT TAKEN ALONG GRUBBED TRANSECTS.
- ADDITIONAL TOPOGRAPHIC SURVEY WAS CONDUCTED ON MARCH 21, 2018 BY IMATA AND ASSOCIATES, INC. NO GUARANTEE IS MADE ON THE ACCURACY AND COMPLETENESS OF THE INFORMATION. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS BEFORE SUBMITTING A BID FOR THE WORK.
- COORDINATES REFERRED TO "PUU-O-KAMAOA" Δ.

ABBREVIATIONS

A.C. OR AC	ASPHALT CONCRETE	MAX.	MAXIMUM
ACI	AMERICAN CONCRETE INSTITUTE	MIN.	MINIMUM
ADA	AMERICAN DISABILITIES ACT	M.P.H. OR MPH	MILES PER HOUR
ADD ALT 1	ADDITIVE ALTERNATE 1		
APPROX.	APPROXIMATE	NO.	NOMINAL DIAMETER
ASSY.	ASSEMBLY	NO.	NUMBER
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS	O.C.	ON CENTER
ASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	O.D.	OUTSIDE DIAMETER
		O/S	OFFSET
		OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
BMPs	BEST MANAGEMENT PRACTICES	OZ.	OUNCE
BOT	BOTTOM		
℄	CENTERLINE	℄	PROPERTY LINE
C	CHORD	P OR PAVT	PAVEMENT
C-C	CENTER TO CENTER	PC	POINT OF CURVATURE
CF	CUBIC FEET	PCF	POUNDS PER CUBIC FOOT
CLR.	CLEAR	PRC	POINT OF REVERSE CURVE
COH.	COUNTY OF HAWAII	PSF	POUNDS PER SQUARE FOOT
COMM.	COMMUNICATION	PSI	POUNDS PER SQUARE INCH
CONC.	CONCRETE	PT	POINT OF TANGENCY
CONT.	CONTINUOUS	PVC	POLYVINYL CHLORIDE
CY	CUBIC YARD	PVI	POINT OF VERTICAL INTERSECTION
D	DEFLECTION ANGLE	R	RADIUS
DEM	DEPARTMENT OF ENVIRONMENTAL MANAGEMENT	RD.	ROAD
		REINF.	REINFORCEMENT
DET.	DETAIL	R/W	RIGHT OF WAY
DIA. OR Ø	DIAMETER	RT.	RIGHT
DPW	DEPARTMENT OF PUBLIC WORKS	S	SLOPE
DR	DRIVE	SHLDR	SHOULDER
DWY	DRIVEWAY	SHT.	SHEET
		STA.	STATION
		STD.	STANDARD
E.F.	EACH FACE	T	TANGENT
EG	EXISTING GROUND	TEMP.	TEMPORARY
EL. OR ELEV.	ELEVATION	THK.	THICK
E.P. OR EOP	EDGE OF PAVEMENT	TMK	TAX MAP KEY
E.W.	EACH WAY	TYP.	TYPICAL
EX OR EXIST.	EXISTING		
FF	FINISH FLOOR	VAR	VARIES
FG	FINISH GRADE	VC	VERTICAL CURVE
FL	FLOWLINE	V OR VERT.	VERTICAL
FT.	FEET		
FTG.	FOOTING		
G.A.	GAUGE	W	WIDTH
GALV.	GALVANIZED	W/	WITH
GB	GRADE BREAK	WWF	WELDED WIRE FABRIC
H	HEIGHT		
HAR	HAWAII ADMINISTRATIVE RULES		
HAVE	HAWAIIAN OCEAN VIEW ESTATES		
H OR HORIZ.	HORIZONTAL		
HP	HIGH POINT		
HWY	HIGHWAY		
I.E.	THAT IS		
IN.	INCH		
L	LENGTH		
LBS.	POUNDS		
LF	LINEAR FEET		
LT.	LEFT		



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REVISION	DATE	DESCRIPTION	MADE BY	APPROVED

OCEAN VIEW
TRANSFER STATION
AND RECYCLING CENTER
PROJECT NO. SW-432
TMK: (3) 9-2-150: 060

NOTES AND ABBREVIATIONS

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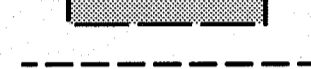
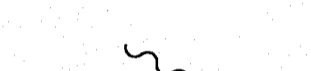

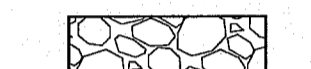
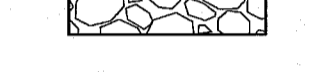
DATE: JULY 2018
SHEET NUMBER: C-11
3 OF 17 SHEETS

WAL_CIVIL_3D_PROJECTS\2016_182,000_DEM_MOVE_TRANSFER_STATION_01_CIVIL_DRAWINGS\C1_CIVIL_NOTES.DWG 5/28/2018 6:47 PM MCRONADO

WA_CIVIL_3D_PROJECTS\2016_182-000 DEM HOVE TRANSFER STATION\01 CIVIL DRAWINGS\C2-0 EXIST DEMO BMP PLAN.DWG 8/7/2018 9:45 AM ASAW



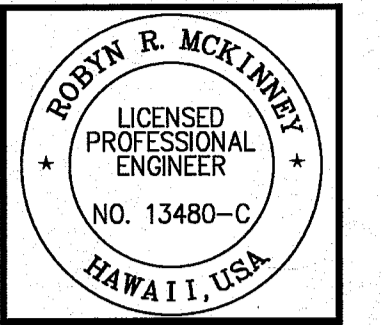
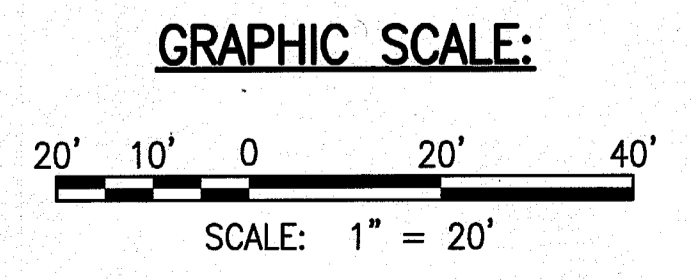
LEGEND:

-  TEMPORARY SILT FENCE, SEE DET. 1/C-7.0
-  APPROXIMATE LIMITS OF CLEAR AND GRUB
-  SAWCUT LINE
-  EXIST. FLOW DIRECTION
-  STABILIZED CONSTRUCTION ENTRANCE/EXIT, SEE DET. 3/C-7.0
-  EXIST. MAJOR CONTOUR
-  EXIST. MINOR CONTOUR

NOTE:

1. SEE GRUBBING, BMP AND TOPOGRAPHIC SURVEY NOTES ON SHEETS C-1.0 & C-1.1.
2. FOR OTHER HORIZONTAL CONTROLS, SEE SHT. C-4.0.

EXISTING CONDITION, DEMOLITION, AND EROSION CONTROL PLAN - ONSITE IMPROVEMENTS
SCALE: 1" = 20'



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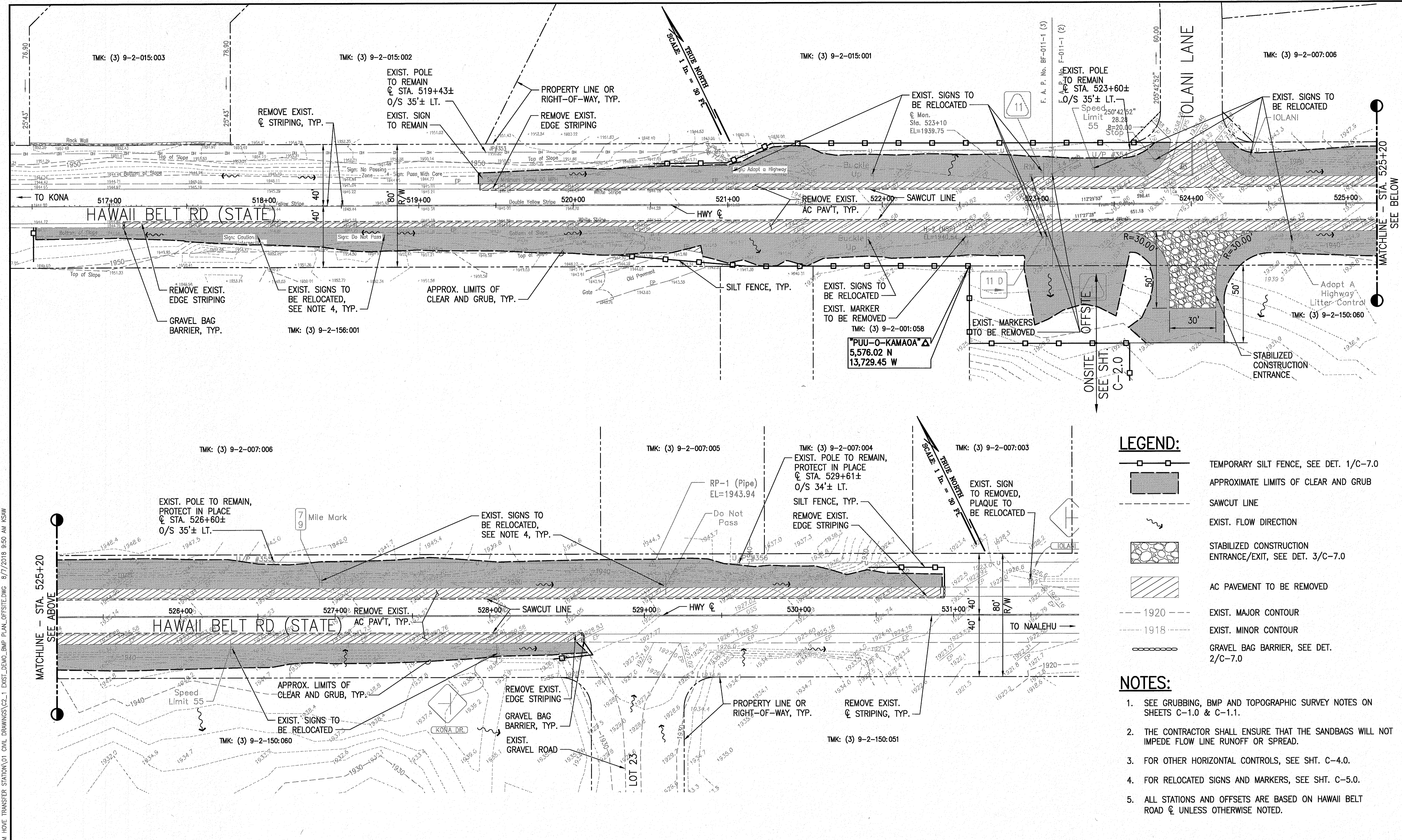
REVISION	DATE	DESCRIPTION	MADE BY	APPROVED

PROJECT: OCEAN VIEW TRANSFER STATION AND RECYCLING CENTER
PROJECT NO. SW-4325
TMK: (3) 9-2-150-060

EXISTING CONDITION, DEMOLITION, AND EROSION CONTROL PLAN - ONSITE IMPROVEMENTS
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DATE: JULY 2018
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4 OF 17 SHEETS

W:_CIVIL_3D_PROJECTS\2016_182-000_DEM_HDVE_TRANSFER_STATION\01_CIVIL_DRAWINGS\C2-1_EXIST_DEMO_BMP_PLAN_OFFSITE.DWG 8/7/2018 9:50 AM AKSW



LEGEND:

- TEMPORARY SILT FENCE, SEE DET. 1/C-7.0
- APPROXIMATE LIMITS OF CLEAR AND GRUB
- SAWCUT LINE
- EXIST. FLOW DIRECTION
- STABILIZED CONSTRUCTION ENTRANCE/EXIT, SEE DET. 3/C-7.0
- AC PAVEMENT TO BE REMOVED
- EXIST. MAJOR CONTOUR
- EXIST. MINOR CONTOUR
- GRAVEL BAG BARRIER, SEE DET. 2/C-7.0

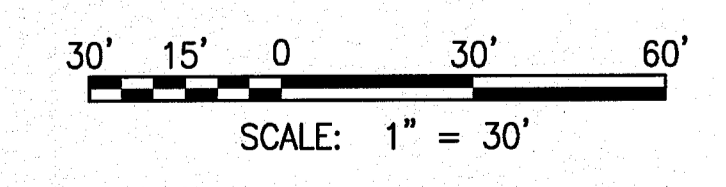
NOTES:

1. SEE GRUBBING, BMP AND TOPOGRAPHIC SURVEY NOTES ON SHEETS C-1.0 & C-1.1.
2. THE CONTRACTOR SHALL ENSURE THAT THE SANDBAGS WILL NOT IMPEDE FLOW LINE RUNOFF OR SPREAD.
3. FOR OTHER HORIZONTAL CONTROLS, SEE SHT. C-4.0.
4. FOR RELOCATED SIGNS AND MARKERS, SEE SHT. C-5.0.
5. ALL STATIONS AND OFFSETS ARE BASED ON HAWAII BELT ROAD \mathcal{C} UNLESS OTHERWISE NOTED.

EXISTING CONDITION, DEMOLITION, AND EROSION CONTROL PLAN - OFFSITE IMPROVEMENTS

SCALE: 1" = 30'

GRAPHIC SCALE:



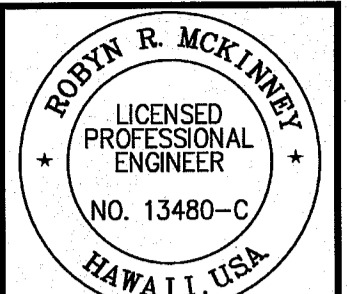
ROBYN R. MCKINNEY
LICENSED PROFESSIONAL ENGINEER
NO. 13480-C
HAWAII, USA

SSFM
International
SSFM International, Inc.
89 Aupun Street, Suite 202
Hilo, Hawaii 96720

REVISION	DATE

OCEAN VIEW
TRANSFER STATION
AND RECYCLING CENTER
PROJECT NO. SW-4325

DATE: JULY 2018
SHEET NUMBER: **C-21**
5 OF 17 SHEETS



4/20/20
 SSFM International, Inc.
 99 August Street, Suite 202
 Hilo, Hawaii 96720

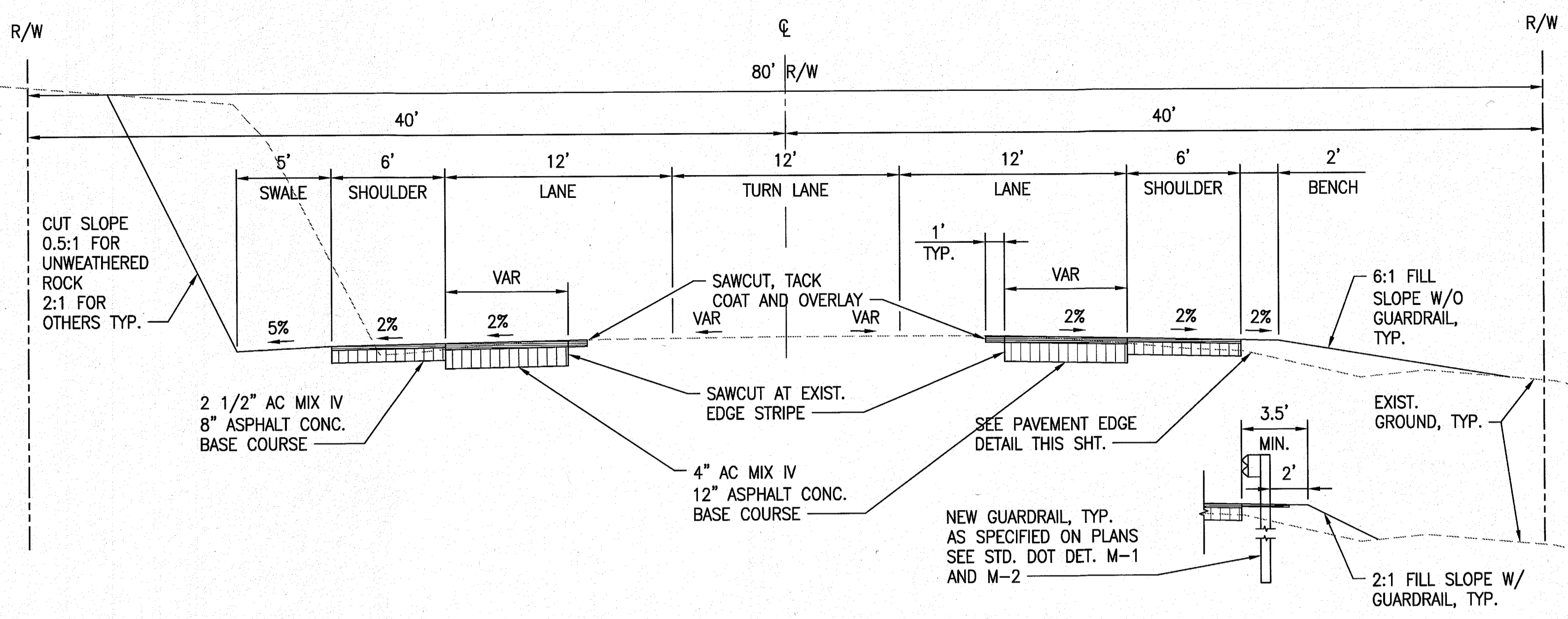
SSFM International, Inc.
 SSFM International, Inc.
 99 August Street, Suite 202
 Hilo, Hawaii 96720

REVISION	DATE	DESCRIPTION	MADE BY	APPROVED

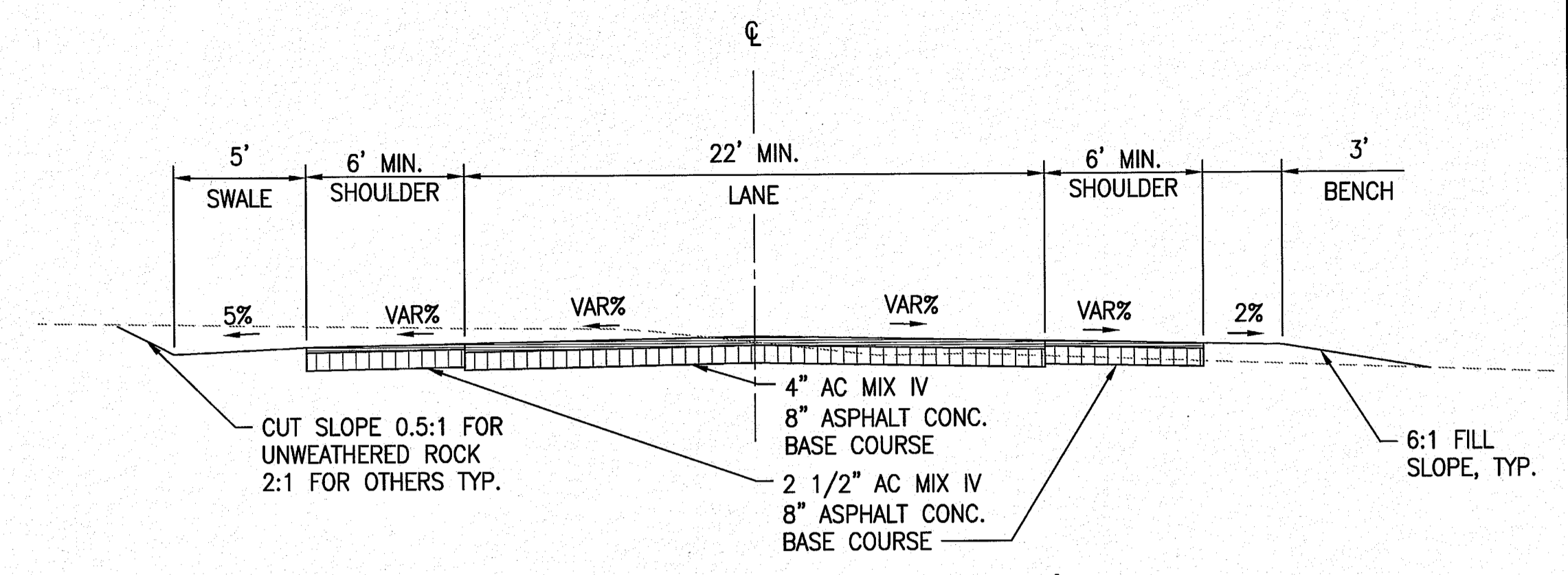
OCEAN VIEW
 TRANSFER STATION
 AND RECYCLING CENTER
 PROJECT NO. SW-4325
 TMK: (3) 9-2-150: 060

TYPICAL SECTIONS - OFFSITE IMPROVEMENTS
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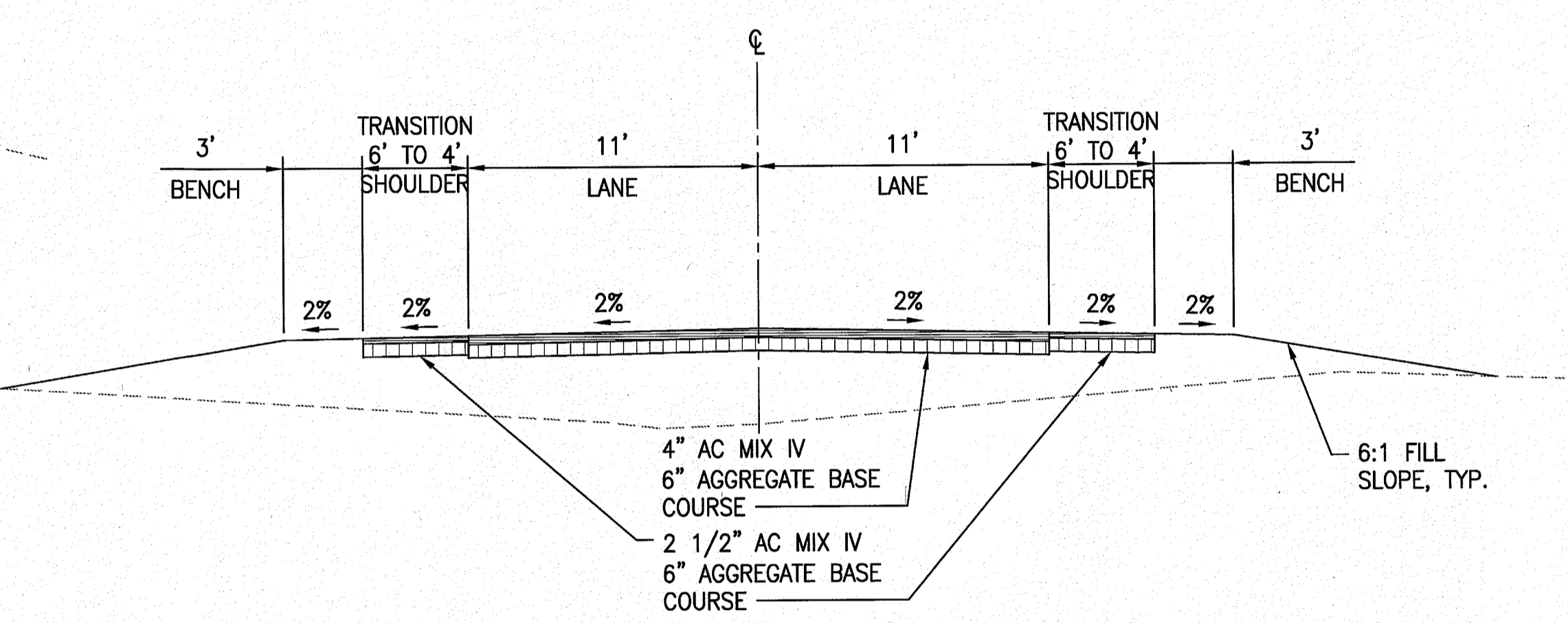
DATE: JULY 2018
 SHEET NUMBER: C-3.0
 6 OF 17 SHEETS



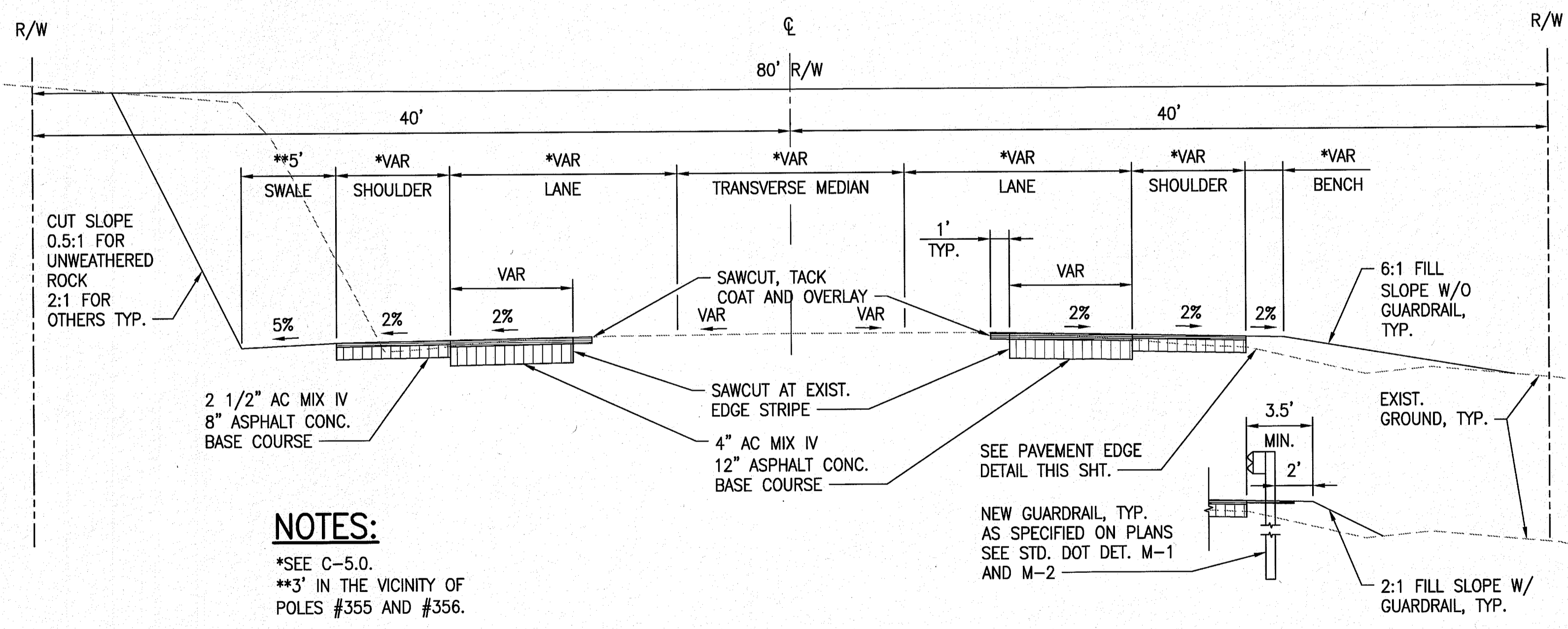
1 HAWAII BELT ROAD (MAMALAOA HWY) - FULL SECTION
 C-3.0 1" = 5'



3 DRIVEWAY W/IN STATE R/W
 C-3.0 1" = 5'

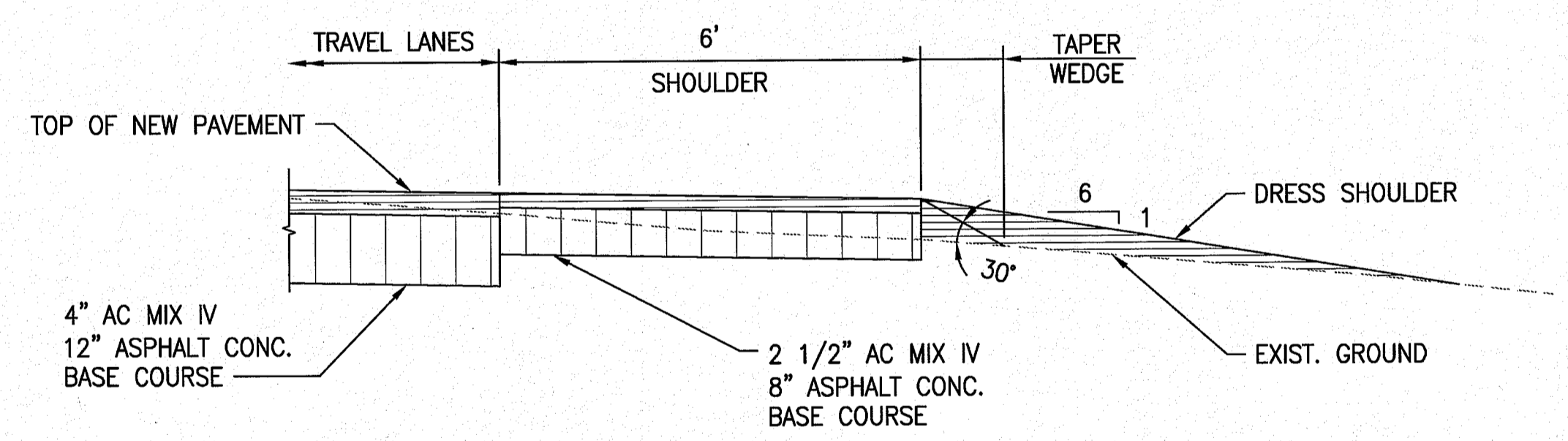


4 DRIVEWAY OUTSIDE STATE R/W
 C-3.0 1" = 5'

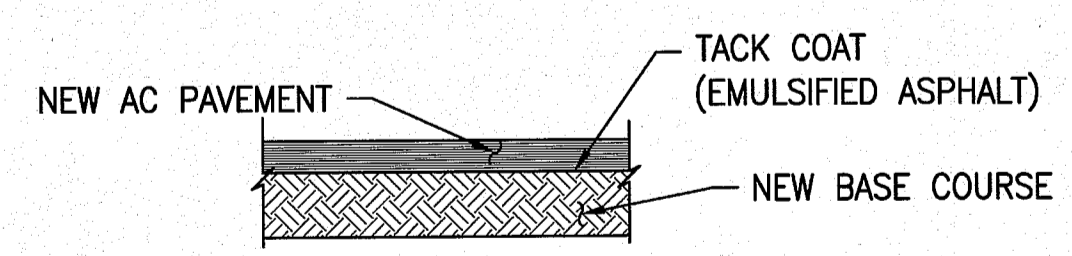


NOTES:
 *SEE C-5.0.
 **3' IN THE VICINITY OF
 POLES #355 AND #356.

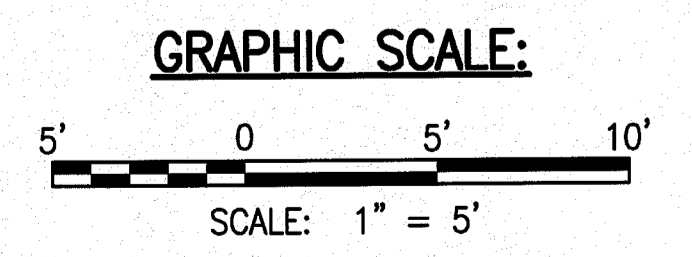
2 HAWAII BELT ROAD (MAMALAOA HWY) - TRANSITION
 C-3.0 1" = 5'



5 PAVEMENT EDGE DETAIL
 C-3.0 NOT TO SCALE

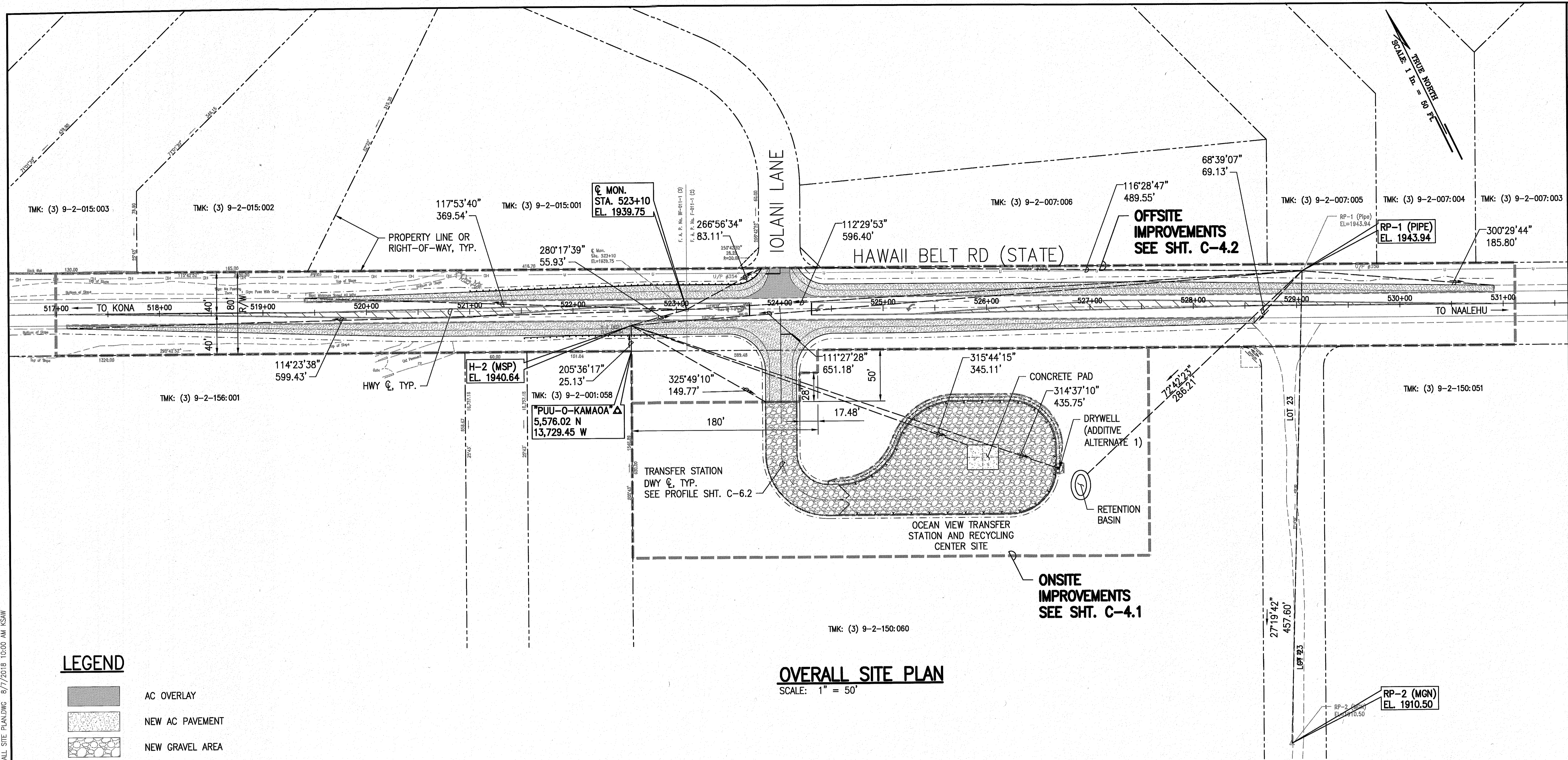


6 AC PAVEMENT DETAIL
 C-3.0 NOT TO SCALE



W:_CIVIL_3D_PROJECTS\2016_182,000_DEM_HOV2_TRANSFER_STATION\01_CIVIL_DRAWINGS\C3.0_TYP_SEC_OFFSITE.DWG 8/7/2018 9:56 AM KRSW

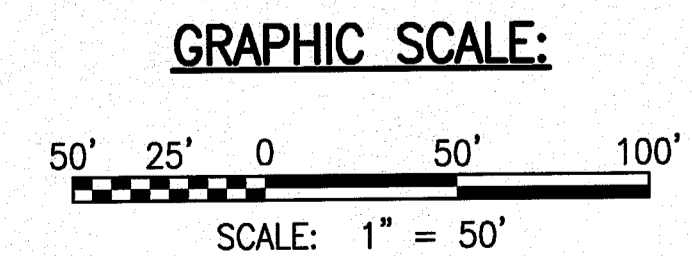
W:_CIVIL_3D_PROJECTS\2016_182.000 DEM HOVE TRANSFER STATION\01 CIVIL DRAWINGS\04_D OVERALL SITE PLAN.DWG 8/7/2018 10:00 AM KESW



OVERALL SITE PLAN
SCALE: 1" = 50'

LEGEND

- AC OVERLAY
- NEW AC PAVEMENT
- NEW GRAVEL AREA
- NEW CONCRETE PAD
- NEW CHAIN LINK FENCE
- NEW DOUBLE SWING CHAINLINK GATE
SEE DETAIL ON SHT. C-7.1
- GRADE BREAK
- FLOW LINE
- SITE TIES
- ADDITIVE ALTERNATE 1**
(REPLACE GRAVEL DRIVEWAY, TRANSFER STATION PAD AND SWALE WITH AC PAVEMENT.
A=22,732 SF
AC SECTION:
4" AC MIX IV
6" AGGREGATE BASE COURSE
- INSTALL SHALLOW DRYWELL IN PLACE OF RETENTION BASIN, SEE DET. SHT. C-7.2 FOR LOCATION, SEE NOTE 1)



ROYAN R. MCKINNEY
LICENSED PROFESSIONAL ENGINEER
NO. 13480-C
HAWAII, USA

DATE: 8/20/2018
TIME: 10:00 AM
PROJECT: OCEAN VIEW TRANSFER STATION AND RECYCLING CENTER
PROJECT NO. SW-4325
SHEET: C-40 OF 17 SHEETS

SSFM International, Inc.
99 Aupuni Street, Suite 202
Hilo, Hawaii 96720

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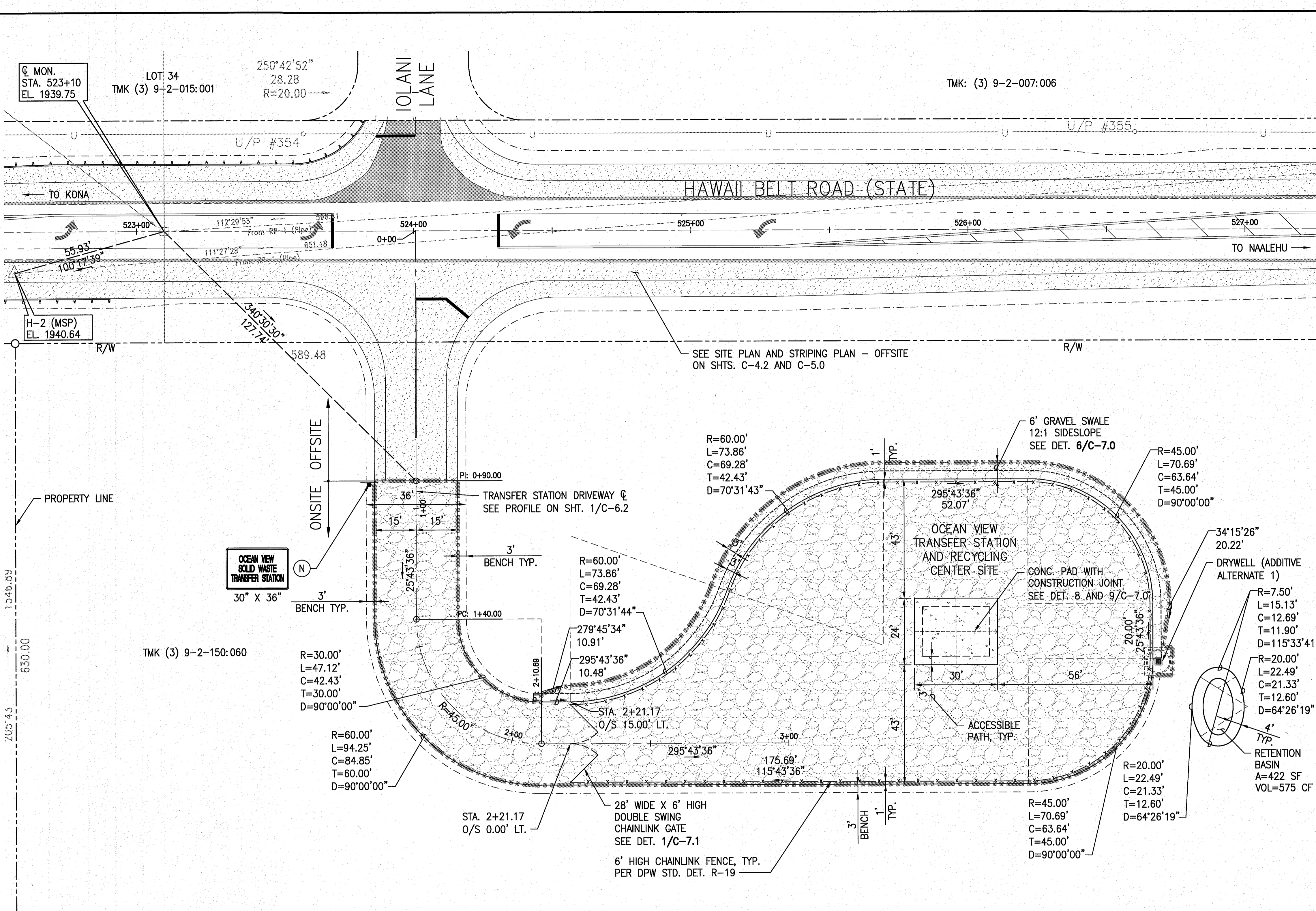
OCEAN VIEW TRANSFER STATION AND RECYCLING CENTER
PROJECT NO. SW-4325
TMK: (3) 9-2-150: 060

OVERALL SITE PLAN

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DATE: JULY 2018
SHEET NUMBER: **C-40**
7 OF 17 SHEETS

WA_CIVIL_3D_PROJECTS\2016_182_000_DEM_HOWE_TRANSFER_STATION\01_CIVIL_DRAWINGS\04_1_SITE_PLANNING_8/7/2016_1:25_PM_KSW



TRANSFER STATION SITE PLAN - ONSITE IMPROVEMENTS
SCALE: 1" = 20'

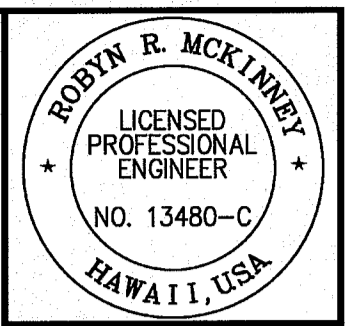
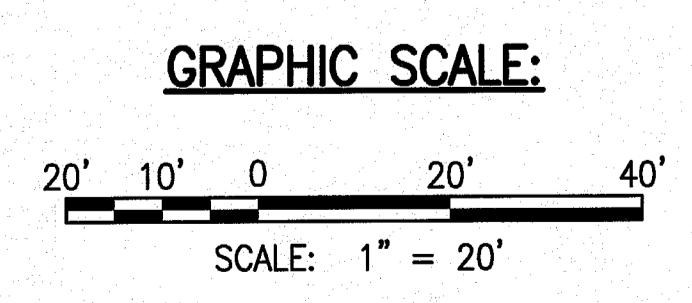
TRUE NORTH
SCALE: 1" = 20' FT.

LEGEND

- AC OVERLAY
- GRAVEL AREA
- NEW AC PAVEMENT
- CONCRETE PAD, SEE DETAIL 8/C-7.0
- CHAIN LINK FENCE
- DOUBLE SWING CHAINLINK GATE SEE DETAIL ON SHT. C-7.1
- GRADE BREAK
- FLOW LINE
- RADIAL LINE
- NEW SIGN AND POST(S)
- ADDITIVE ALTERNATE 1**
(REPLACE GRAVEL DRIVEWAY, TRANSFER STATION PAD AND SWALE WITH AC PAVEMENT.)
A=22,732 SF
AC SECTION:
4" AC MIX IV
6" AGGREGATE BASE COURSE
- RETENTION BASIN
A=422 SF
VOL=575 CF
- DRYWELL (ADDITIVE ALTERNATE 1)

NOTES:

1. FOR HORIZONTAL CONTROLS, SEE SHT. C-4.0.



Robyn R. MCKINNEY
7/4/20/20
REGISTERED PROFESSIONAL ENGINEER
NO. 13480-C
HAWAII, USA
M.F.E. - Contracted to check and verify dimensions of 3D before proceeding with work.

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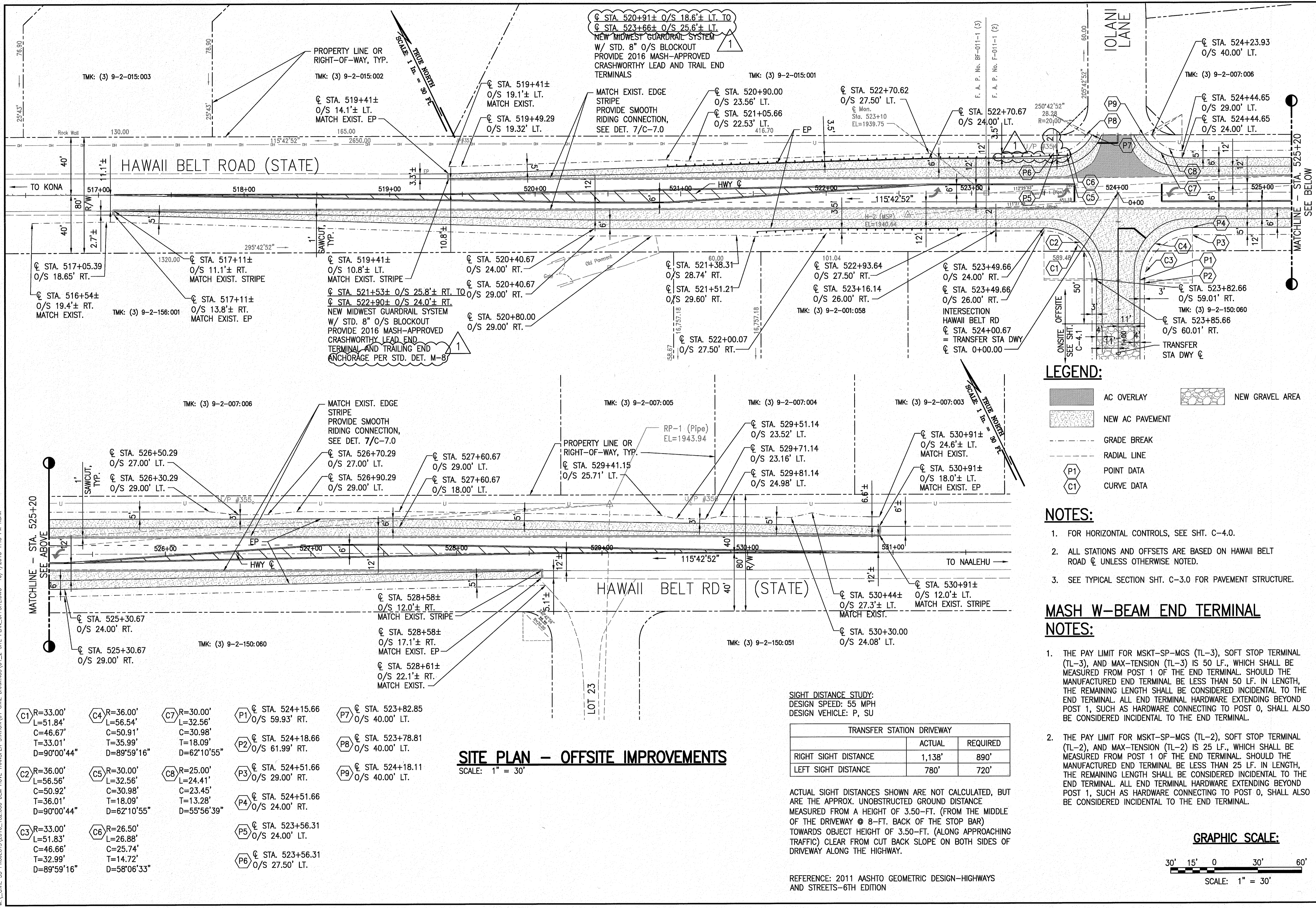
REVISION	DATE	DESCRIPTION	APPROVED	MADE BY

PROJECT: OCEAN VIEW TRANSFER STATION AND RECYCLING CENTER
PROJECT NO. SW-4325
TMK: (3) 9-2-150: 060

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DATE: JULY 2018
SHEET NUMBER: C-41
8 OF 17 SHEETS

W:_CIVIL_3D_PROJECTS\2016_182_000_DEM_HOVE_TRANSFER_STATION\01_CIVIL_DRAWINGS\CA_2_SITE_PLAN\OFFSITE.DWG 10/4/2018 1:48 PM KSAW



SITE PLAN - OFFSITE IMPROVEMENTS

SCALE: 1" = 30'

C1	R=33.00' L=51.84' C=46.67' D=90°00'44"	C4	R=36.00' L=56.54' C=50.91' D=89°59'16"	C7	R=30.00' L=32.56' C=30.98' D=62°10'55"	P1	STA 524+15.66 O/S 59.93' RT.	P7	STA 523+82.85 O/S 40.00' LT.
C2	R=36.00' L=56.56' C=50.92' D=90°00'44"	C5	R=30.00' L=32.56' C=30.98' D=62°10'55"	C8	R=25.00' L=24.41' C=23.45' D=55°56'39"	P2	STA 524+18.66 O/S 61.99' RT.	P8	STA 523+78.81 O/S 40.00' LT.
C3	R=33.00' L=51.83' C=46.66' D=89°59'16"	C6	R=26.50' L=26.88' C=25.74' D=58°06'33"			P3	STA 524+51.66 O/S 29.00' RT.	P9	STA 524+18.11 O/S 40.00' LT.
						P4	STA 524+51.66 O/S 24.00' RT.		
						P5	STA 523+56.31 O/S 24.00' LT.		
						P6	STA 523+56.31 O/S 27.50' LT.		

SIGHT DISTANCE STUDY:
DESIGN SPEED: 55 MPH
DESIGN VEHICLE: P, SU

TRANSFER STATION DRIVEWAY		
	ACTUAL	REQUIRED
RIGHT SIGHT DISTANCE	1,138'	890'
LEFT SIGHT DISTANCE	780'	720'

ACTUAL SIGHT DISTANCES SHOWN ARE NOT CALCULATED, BUT ARE THE APPROX. UNOBSTRUCTED GROUND DISTANCE MEASURED FROM A HEIGHT OF 3.50-FT. (FROM THE MIDDLE OF THE DRIVEWAY @ 8-FT. BACK OF THE STOP BAR) TOWARDS OBJECT HEIGHT OF 3.50-FT. (ALONG APPROACHING TRAFFIC) CLEAR FROM CUT BACK SLOPE ON BOTH SIDES OF DRIVEWAY ALONG THE HIGHWAY.

REFERENCE: 2011 ASHTO GEOMETRIC DESIGN-HIGHWAYS AND STREETS-6TH EDITION

LEGEND:

- AC OVERLAY
- NEW AC PAVEMENT
- NEW GRAVEL AREA
- GRADE BREAK
- RADIAL LINE
- POINT DATA
- CURVE DATA

NOTES:

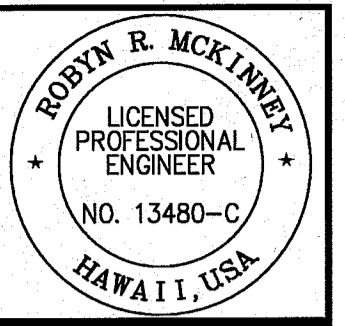
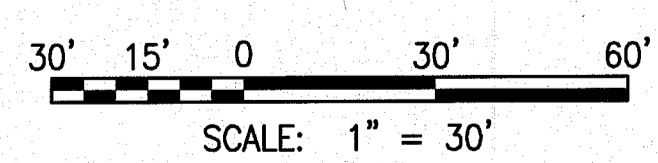
- FOR HORIZONTAL CONTROLS, SEE SHIT. C-4.0.
- ALL STATIONS AND OFFSETS ARE BASED ON HAWAII BELT ROAD C UNLESS OTHERWISE NOTED.
- SEE TYPICAL SECTION SHIT. C-3.0 FOR PAVEMENT STRUCTURE.

MASH W-BEAM END TERMINAL

NOTES:

- THE PAY LIMIT FOR MSKT-SP-MGS (TL-3), SOFT STOP TERMINAL (TL-3), AND MAX-TENSION (TL-3) IS 50 LF., WHICH SHALL BE MEASURED FROM POST 1 OF THE END TERMINAL. SHOULD THE MANUFACTURED END TERMINAL BE LESS THAN 50 LF. IN LENGTH, THE REMAINING LENGTH SHALL BE CONSIDERED INCIDENTAL TO THE END TERMINAL. ALL END TERMINAL HARDWARE EXTENDING BEYOND POST 1, SUCH AS HARDWARE CONNECTING TO POST 0, SHALL ALSO BE CONSIDERED INCIDENTAL TO THE END TERMINAL.
- THE PAY LIMIT FOR MSKT-SP-MGS (TL-2), SOFT STOP TERMINAL (TL-2), AND MAX-TENSION (TL-2) IS 25 LF., WHICH SHALL BE MEASURED FROM POST 1 OF THE END TERMINAL. SHOULD THE MANUFACTURED END TERMINAL BE LESS THAN 25 LF. IN LENGTH, THE REMAINING LENGTH SHALL BE CONSIDERED INCIDENTAL TO THE END TERMINAL. ALL END TERMINAL HARDWARE EXTENDING BEYOND POST 1, SUCH AS HARDWARE CONNECTING TO POST 0, SHALL ALSO BE CONSIDERED INCIDENTAL TO THE END TERMINAL.

GRAPHIC SCALE:



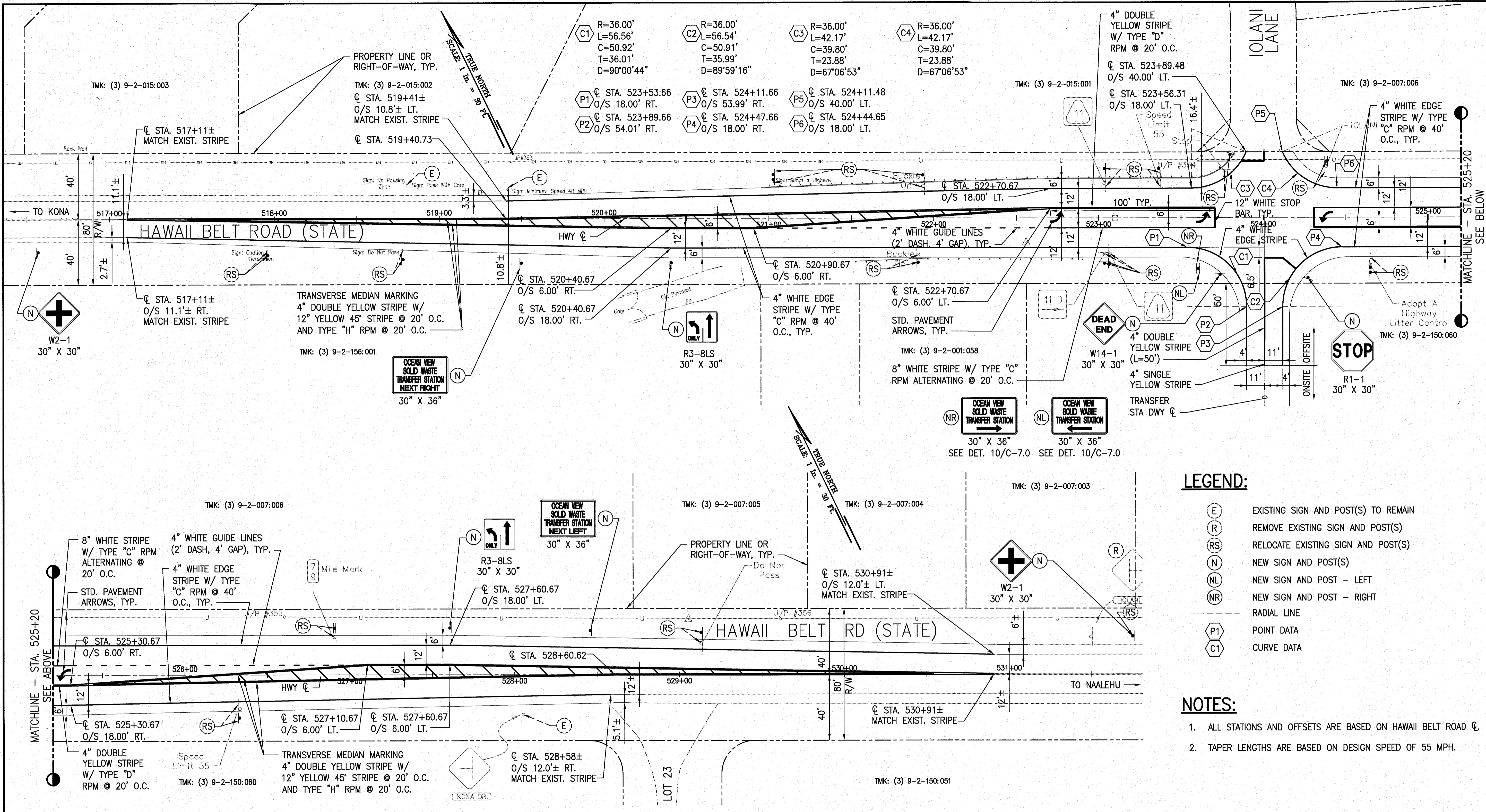
DATE: 10/04/18
SHEET NUMBER: C-4.2
PROJECT: OCEAN VIEW TRANSFER STATION AND RECYCLING CENTER
PROJECT NO. SW-4525
TMK: (3) 9-2-150-060

SSFM International, Inc.
88 August Street, Suite 202
Hilo, Hawaii 96720

REVISION	DATE	DESCRIPTION	MADE BY	APPROVED
1	10/04/18	RENSED GUARDRAIL END TERMINALS	MAS	

DATE: JULY 2018
SHEET NUMBER: C-4.2
9 OF 17 SHEETS

HWL-CIVIL-3D PROJECTS\2016-182.000 DEW HOV TRANSFER STATION\01 CIVIL DRAWINGS\C5.0 STRIPING PLAN-OFFSITE.DWG 8/7/2018 10:28 AM KSW



STRIPING AND SIGNAGE PLAN - OFFSITE IMPROVEMENTS
SCALE: 1" = 30'

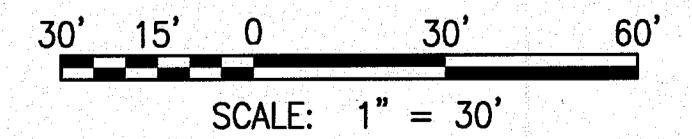
LEGEND:

- (E) EXISTING SIGN AND POST(S) TO REMAIN
- (R) REMOVE EXISTING SIGN AND POST(S)
- (RS) RELOCATE EXISTING SIGN AND POST(S)
- (N) NEW SIGN AND POST(S)
- (NL) NEW SIGN AND POST - LEFT
- (NR) NEW SIGN AND POST - RIGHT
- (P1) RADIAL LINE
- (C1) POINT DATA
- (C2) CURVE DATA

NOTES:

1. ALL STATIONS AND OFFSETS ARE BASED ON HAWAII BELT ROAD C.
2. TAPER LENGTHS ARE BASED ON DESIGN SPEED OF 55 MPH.

GRAPHIC SCALE:



ROBYN R. MCKINNEY
LICENSED PROFESSIONAL ENGINEER
NO. 13480-C
HAWAII, USA

SSFM International, Inc.
99 Auburn Street, Suite 202
Hilo, Hawaii 96720

REVISION	APPROVED

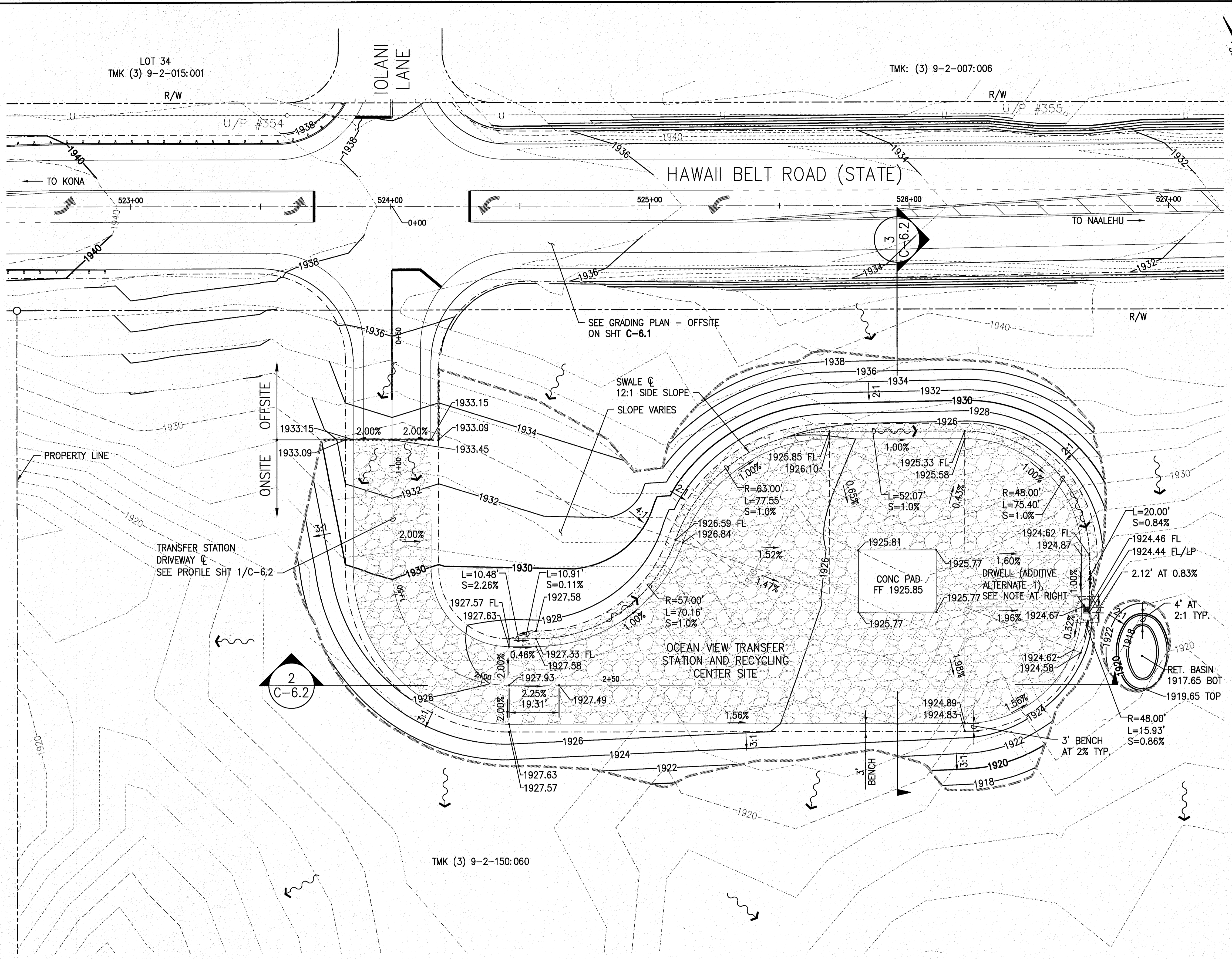
OCEAN VIEW TRANSFER STATION AND RECYCLING CENTER
PROJECT NO. SW-4325
TMK: (3) 9-2-150-060

STRIPING AND SIGNAGE PLAN - OFFSITE IMPROVEMENTS

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DATE: JULY 2018
SHEET NUMBER: **C-5.0**
10 of 17 SHEETS

W:_CIVIL_3D_PROJECTS\2016_182,000 DEM HOV TRANSFER STATION\01 CIVIL DRAWINGS\C6.0 GRADING PLAN.DWG 8/7/2018 10:31 AM KSW



TRUE NORTH
SCALE: 1" = 20' FT

- NOTES:**
- SEE GRADING & BMP NOTES ON SHTS. C-1.0 & C-1.1.
 - SEE SHT C-6.2 FOR GRADING SECTIONS.
 - USE 0.5:1 FOR UNWEATHERED ROCK. IF CONTRACTOR ENCOUNTERS WEAKER SOILS, ENGINEER TO ADJUST SLOPE ACCORDINGLY.

EARTHWORK QUANTITIES (TRANSFER STATION)

WORK AREA	=	0.98 ACRES
*EXIST. SURFACE AND FINISHED GRADES		
EMBANKMENT	=	2,517 CY (FILL)
EXCAVATION	=	2,696 CY (CUT)
NET	=	179 CY (CUT)

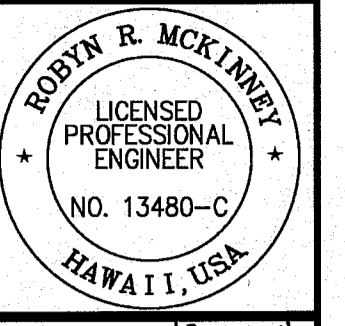
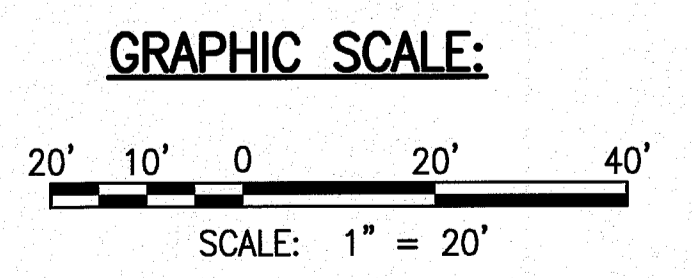
- NOTE:**
- NOT TO BE USED FOR BIDDING PURPOSES. CONTRACTOR SHALL PERFORM ITS OWN QUANTITY ESTIMATES.
 - EARTHWORK QUANTITIES SHOWN DOES NOT TAKE INTO ACCOUNT PAVEMENT, GRAVEL, OR CONCRETE DEPTHS.

LEGEND

— 1920 —	FINISH GRADE MAJOR CONTOUR
— 1918 —	FINISH GRADE MINOR CONTOUR
- - - 1920 - - -	EXIST. MAJOR CONTOUR
- - - 1918 - - -	EXIST. MINOR CONTOUR
- - - - -	LIMITS OF GRADING
- - - - -	GRADE BREAK
- - - - -	FLOW LINE
2.00%	SLOPE
~>	FLOW DIRECTION
19XX.X±	EXIST. GROUND ELEV.
19XX.XX	FINISH GRADE ELEV.
19XX.XX FL	FLOWLINE ELEV.
19XX.XX FF	FINISH FLOOR (TOP OF CONC) ELEV.

ADDITIVE ALTERNATE 1
INSTALL SHALLOW DRYWELL IN PLACE OF RETENTION BASIN, SEE DET. SHT. C-7.2 FOR LOCATION, SEE SHT. C-4.0 FOR HORIZONTAL CONTROLS.

TRANSFER STATION GRADING PLAN - ONSITE IMPROVEMENTS
SCALE: 1" = 20'



Robyn R. McKinley
LICENSED PROFESSIONAL ENGINEER
NO. 13480-C
HAWAII, U.S.A.

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Hilo, Hawaii 96720

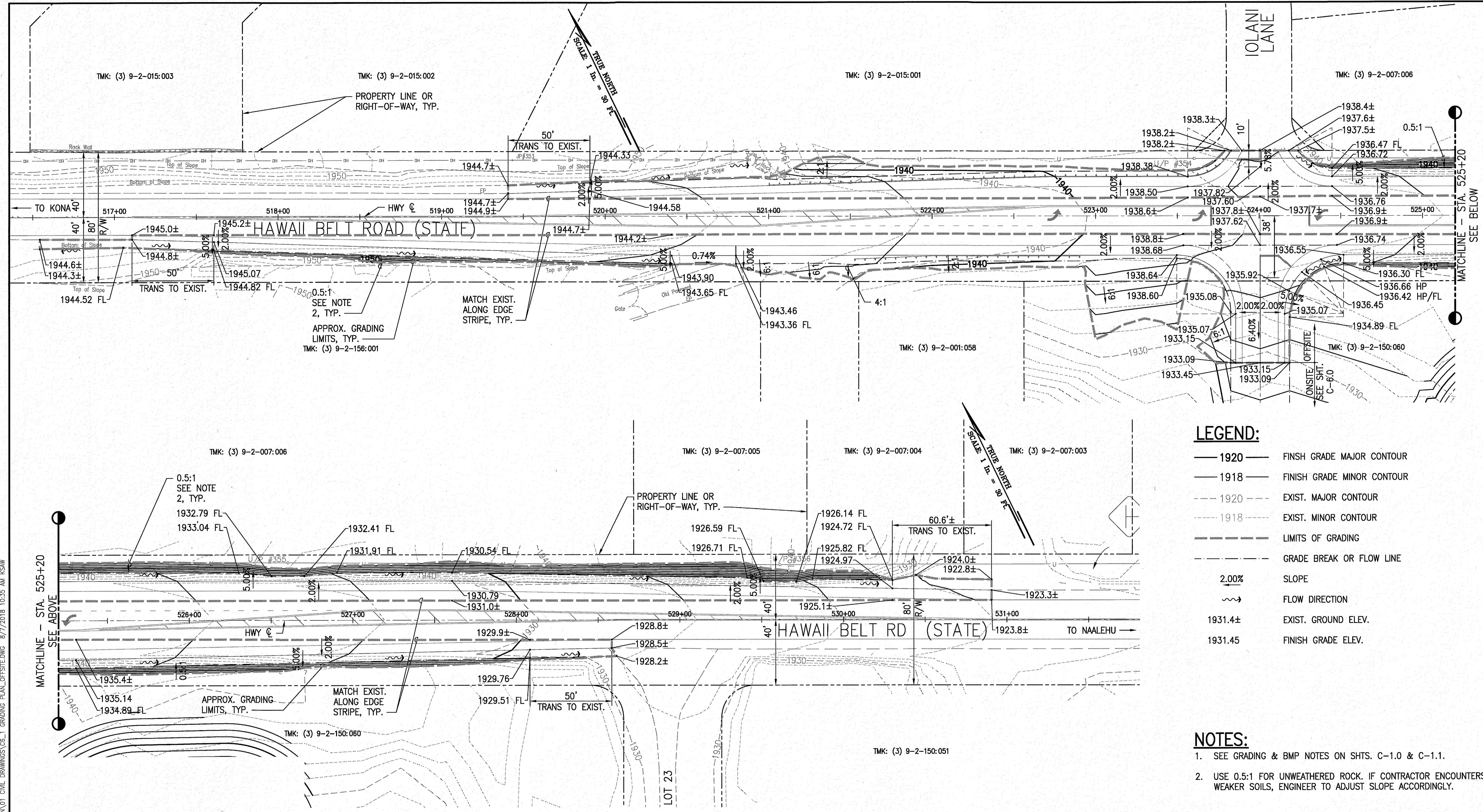
REVISION	DATE	DESCRIPTION	MADE BY	APPROVED

PROJECT:
OCEAN VIEW TRANSFER STATION AND RECYCLING CENTER
PROJECT NO. SW-4325
TMK: (3) 9-2-150: 060

TRANSFER STATION GRADING PLAN - ONSITE IMPROVEMENTS
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DATE: JULY 2018
SHEET NUMBER: **C-6.0**
11 OF 17 SHEETS

W:_CIVIL_3D_PROJECTS\2016_1822000_DEM_HOVE_TRANSFER_STATION\01_CIVIL_DRAWINGS\06_1_GRADING_PLAN_OFFSITE.DWG 8/7/2018 10:35 AM KSW



- LEGEND:**
- 1920 — FINISH GRADE MAJOR CONTOUR
 - 1918 — FINISH GRADE MINOR CONTOUR
 - - - 1920 - - - EXIST. MAJOR CONTOUR
 - - - 1918 - - - EXIST. MINOR CONTOUR
 - - - - - LIMITS OF GRADING
 - - - - - GRADE BREAK OR FLOW LINE
 - 2.00% SLOPE
 - ~ FLOW DIRECTION
 - 1931.4± EXIST. GROUND ELEV.
 - 1931.45 FINISH GRADE ELEV.

- NOTES:**
- SEE GRADING & BMP NOTES ON SHTS. C-1.0 & C-1.1.
 - USE 0.5:1 FOR UNWEATHERED ROCK. IF CONTRACTOR ENCOUNTERS WEAKER SOILS, ENGINEER TO ADJUST SLOPE ACCORDINGLY.

EARTHWORK QUANTITIES (OFFSITE):

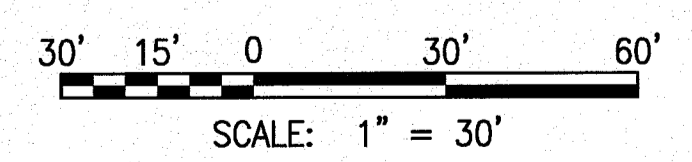
WORK AREA	=	1.11 ACRES
*EXIST. SURFACE AND FINISHED GRADES		
EMBANKMENT	=	504 CY (FILL)
EXCAVATION	=	1,712 CY (CUT)
NET	=	1,208 CY (CUT)

- NOTE:**
- NOT TO BE USED FOR BIDDING PURPOSES. CONTRACTOR SHALL PERFORM ITS OWN QUANTITY ESTIMATES.
 - EARTHWORK QUANTITIES SHOWN DOES NOT TAKE INTO ACCOUNT PAVEMENT, GRAVEL, OR CONCRETE DEPTHS.

GRADING PLAN - OFFSITE IMPROVEMENTS

SCALE: 1" = 30'

GRAPHIC SCALE:



SSFM International
 SSFM International, Inc.
 99 Albert Street, Suite 202
 Hilo, Hawaii 96720

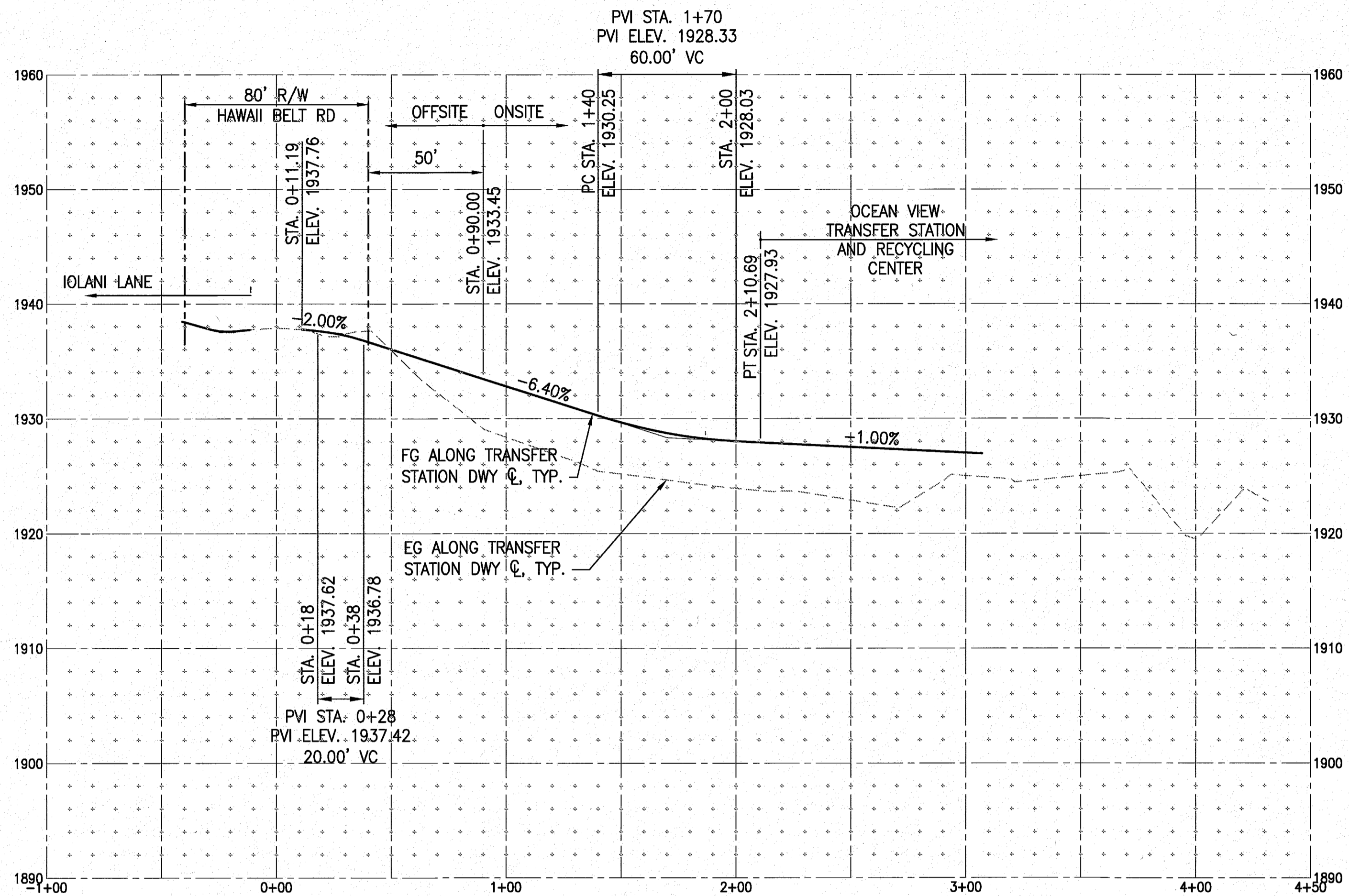
REVISION	DATE	DESCRIPTION	MADE BY	APPROVED

PROJECT: OCEAN VIEW TRANSFER STATION AND RECYCLING CENTER
 PROJECT NO. SW-4325
 TMK: (3) 9-2-150-060

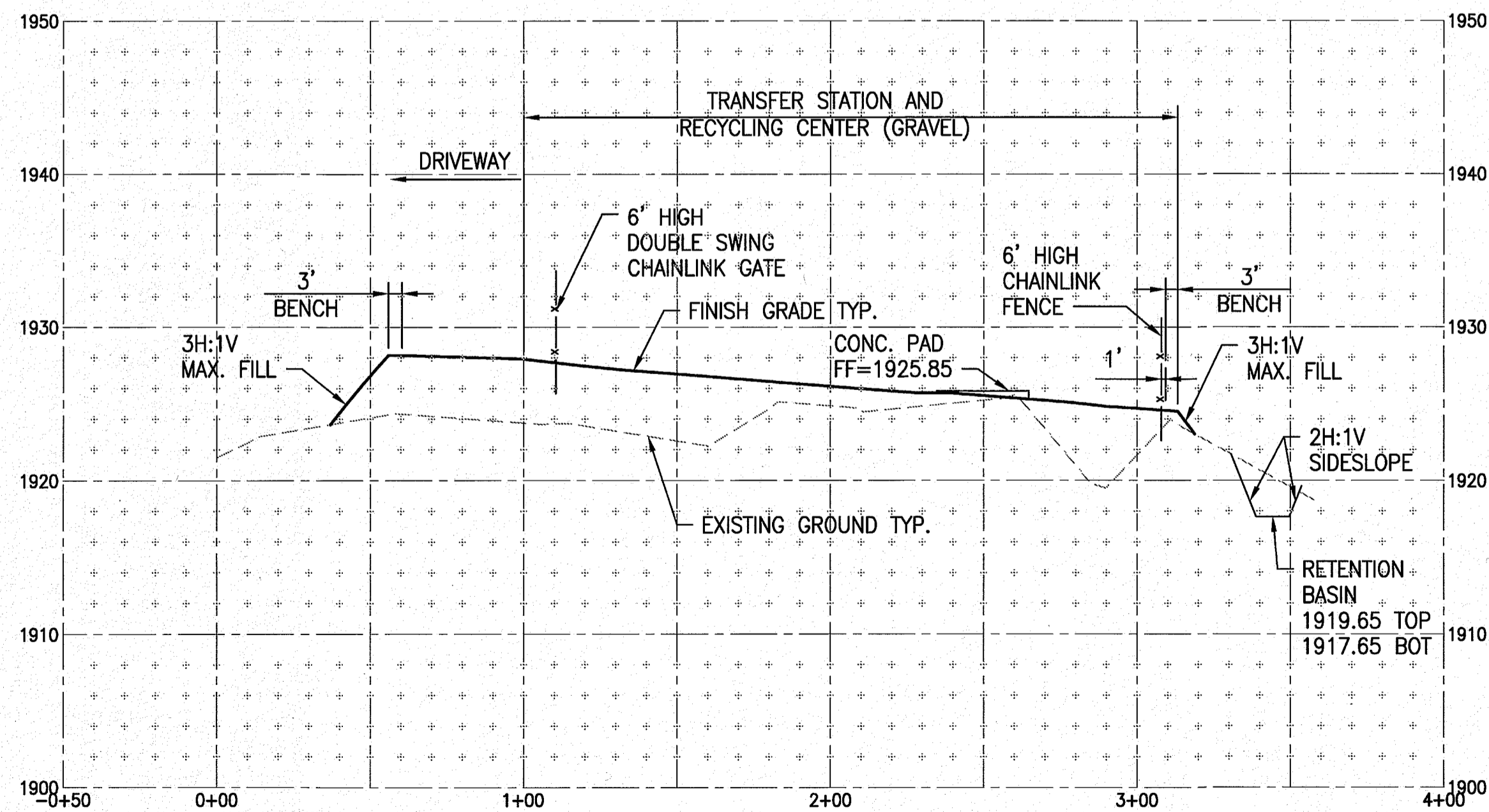
GRADING PLAN - OFFSITE IMPROVEMENTS

DATE: JULY 2018
SHEET NUMBER: C-6.1
 12 OF 17 SHEETS

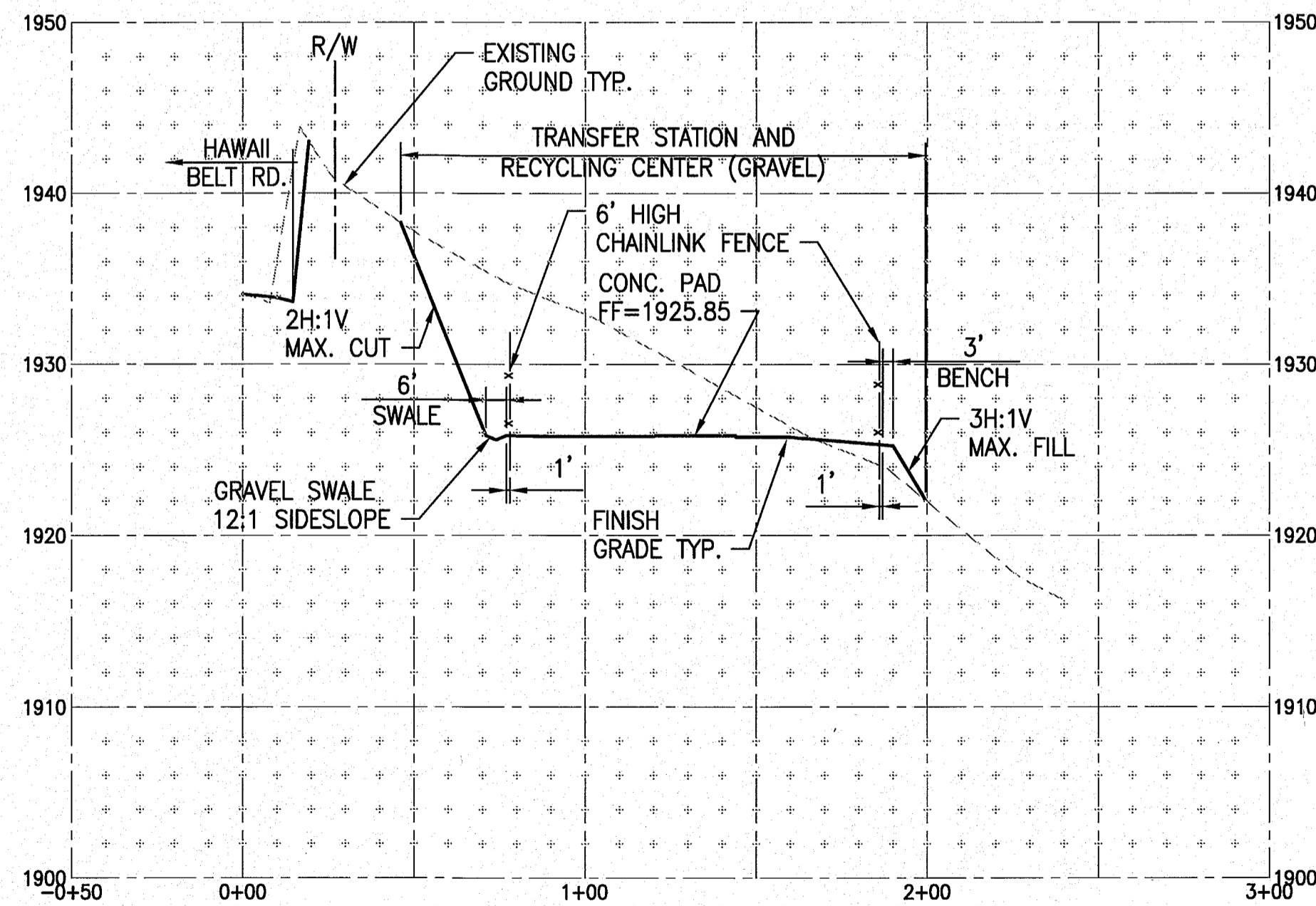
WA_CIVIL_3D_PROJECTS\2016_182,000_DEM_HOVE_TRANSFER STATION\01_CIVIL_DRAWINGS\06_2_DWY_PROF_GRID_SEC.DWG 5/28/2018 6:33 PM MCDONALDO



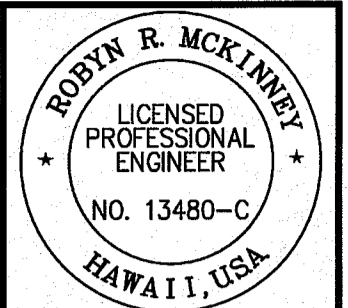
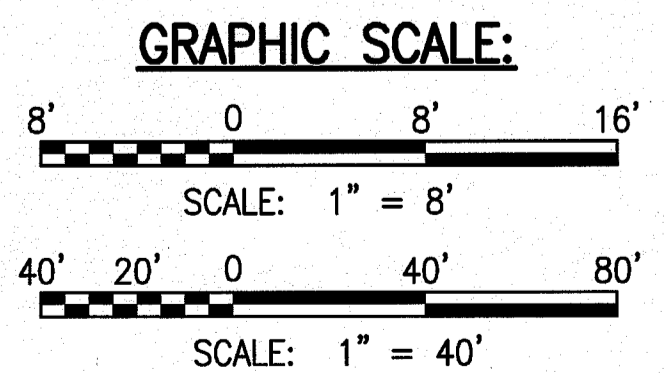
1 TRANSFER STATION DRIVEWAY PROFILE
 C-6.2 HORIZ. 1" = 40'
 VERT. 1" = 8'



2 GRADING SECTION 1
 C-6.2 HORIZ. 1" = 40'
 VERT. 1" = 8'



3 GRADING SECTION 2
 C-6.2 HORIZ. 1" = 40'
 VERT. 1" = 8'



DATE: 4/30/20
 TIME: 4:30 PM
 DRAWN BY: J. K. [Signature]
 CHECKED BY: [Signature]
 PROJECT NO. SW-4325
 PROJECT: OCEAN VIEW TRANSFER STATION AND RECYCLING CENTER
 TMK: (3) 9-2-150: 060

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 99 Aupuni Street, Suite 202
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REVISION	DATE	DESCRIPTION	MADE BY	APPROVED

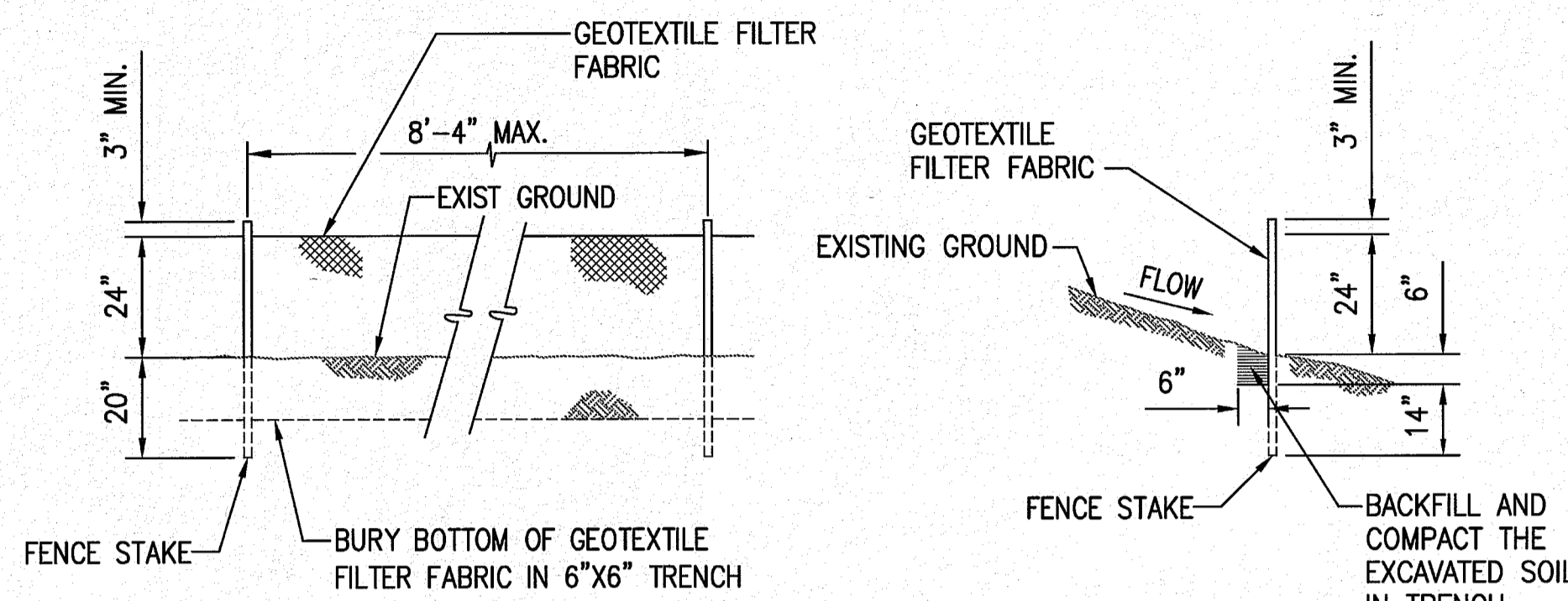
PROJECT: OCEAN VIEW TRANSFER STATION AND RECYCLING CENTER
 PROJECT NO. SW-4325
 TMK: (3) 9-2-150: 060

TRANSFER STATION DRIVEWAY PROFILE AND GRADING SECTIONS
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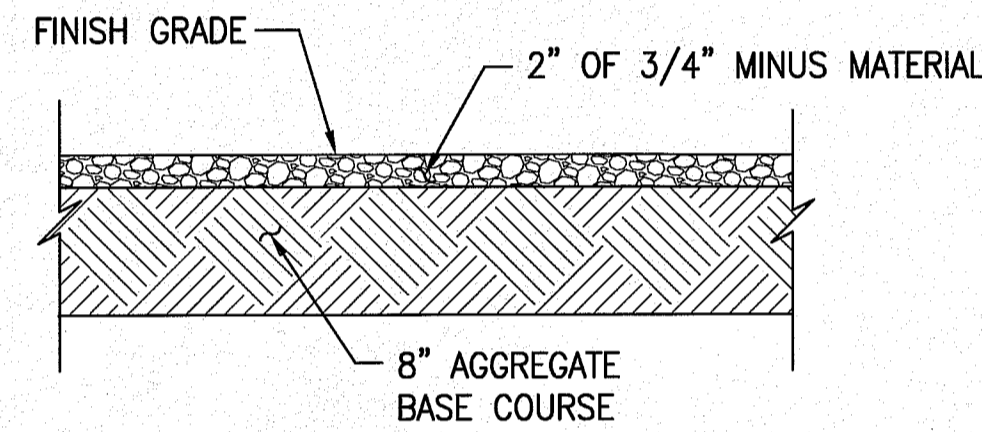
DATE: JULY 2018
 SHEET NUMBER: C-6.2
 13 OF 17 SHEETS

NOTES:

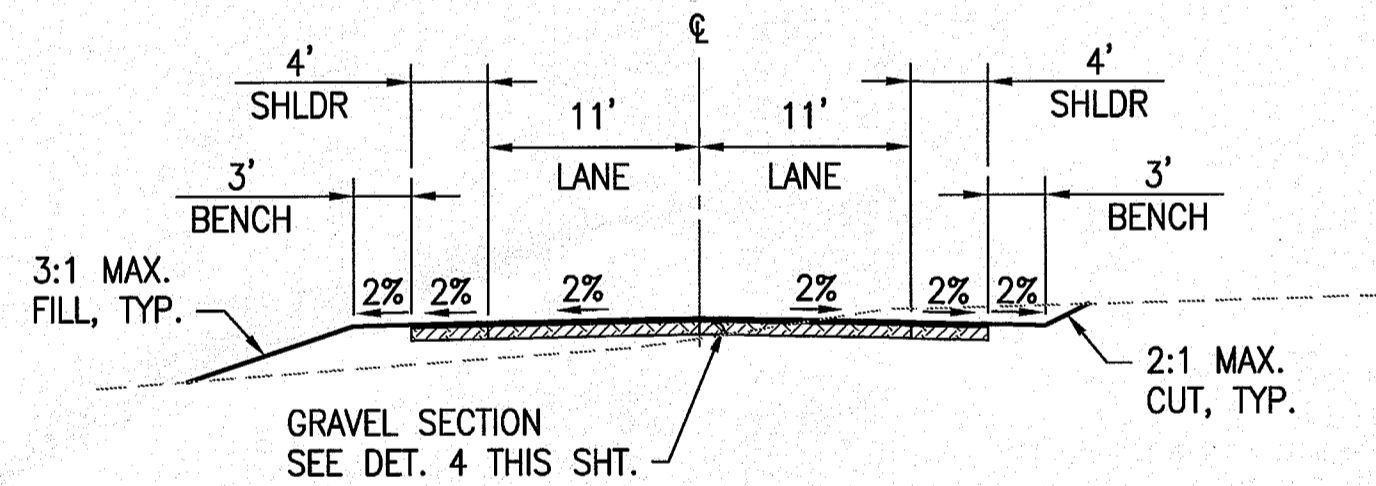
1. THE FILTER FABRIC SHALL BE A MINIMUM OF 36 INCHES WIDE.
2. IF SILT FENCE IS OBTAINED FROM MANUFACTURER AS A PACKAGE (I.E. FABRIC ATTACHED TO POST) THE MANUFACTURER'S INSTALLATION INSTRUCTION SHALL BE ADHERED TO.
3. FENCE STAKES MAY BE WOOD OR METAL, MUST BE CAPABLE OF SUPPORTING ANTICIPATED LOADS.



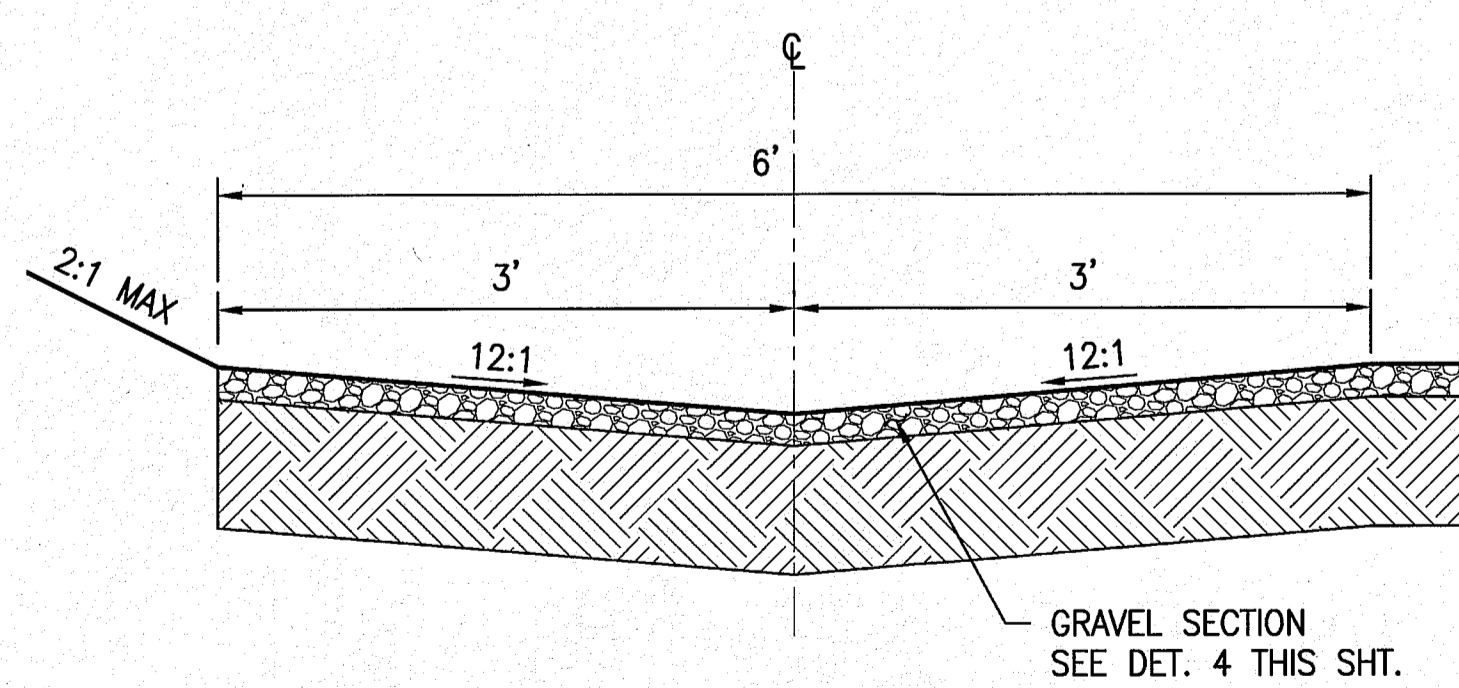
1 SILT FENCE DETAIL
C-7.0 3/8" = 1'-0"



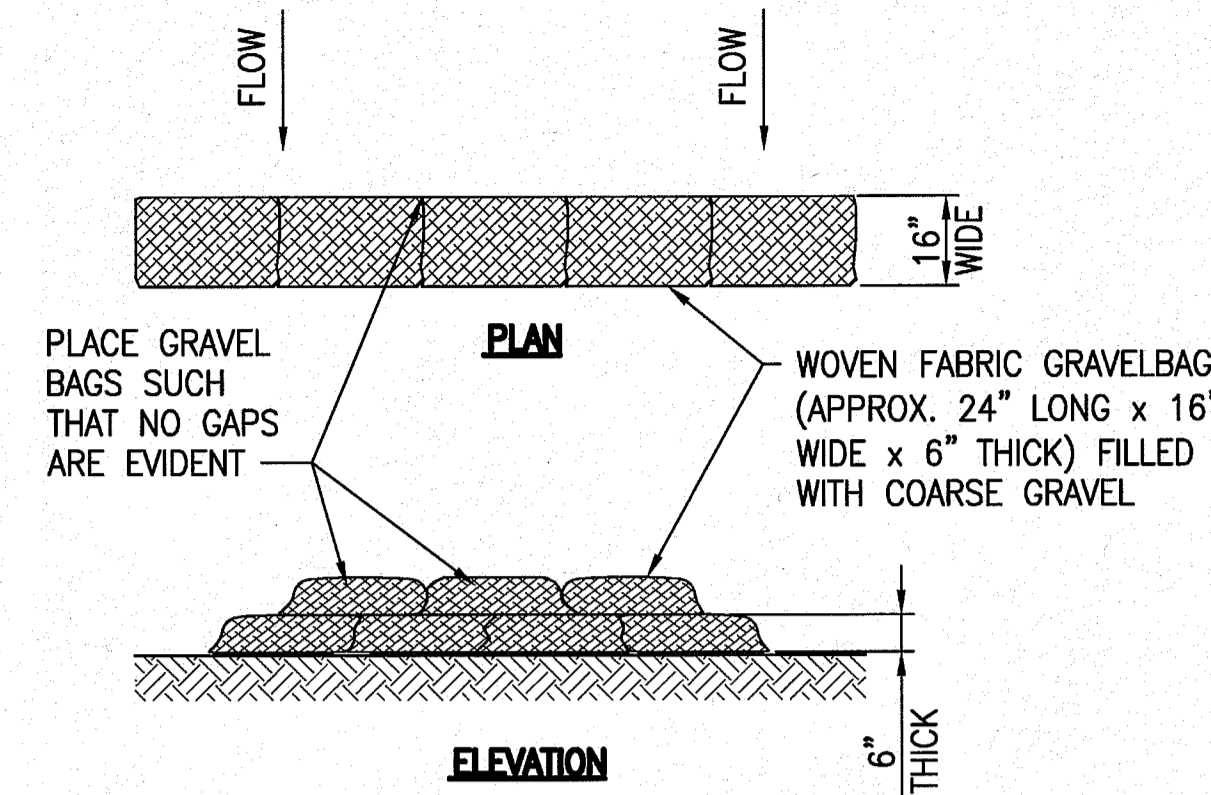
4 GRAVEL AREA DETAIL
C-7.0 1" = 1'-0"



5 TRANSFER STATION DRIVEWAY SECTION
C-7.0 1" = 10'



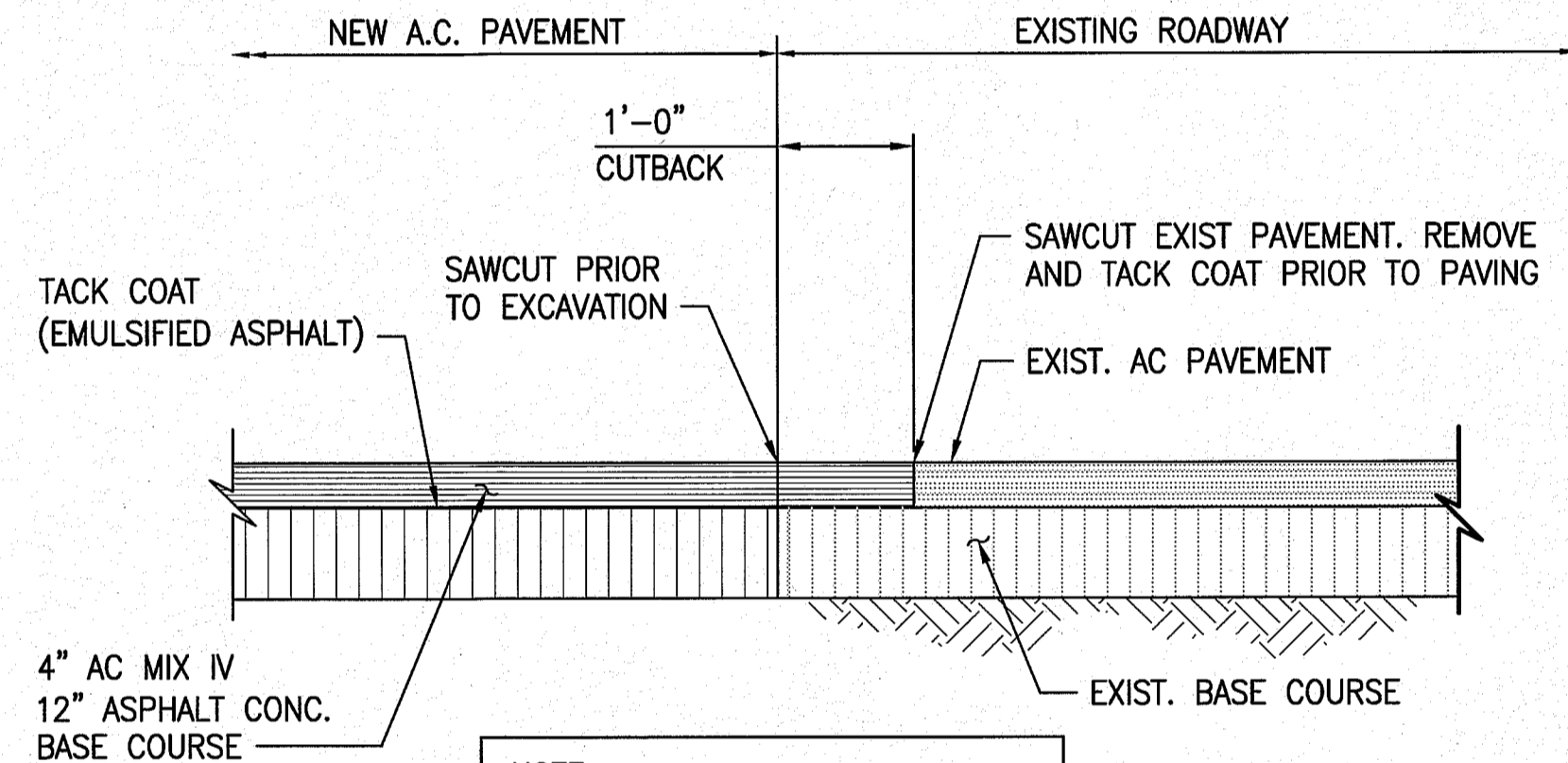
6 GRAVEL SWALE DETAIL
C-7.0 1" = 1'-0"



NOTES:

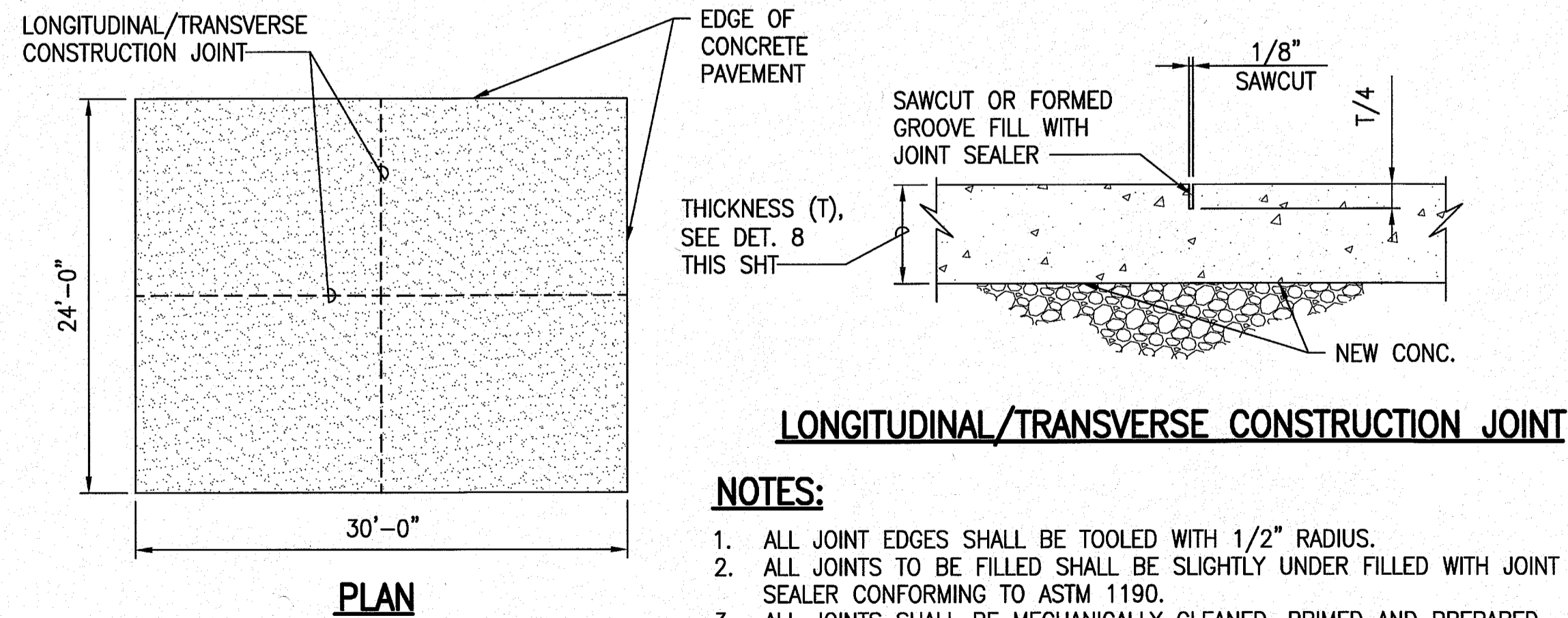
1. USE GRAVEL BAGS IN PAVED AREAS.
2. REMOVE GRAVEL BAGS DURING NON-WORK HOURS, OR WHENEVER WORK IS NOT IN PROGRESS.
3. GRAVEL BARRIER BAGS CAN BE A SINGLE OR DOUBLE LAYER. IF A DOUBLE LAYER ARE USED, THE TOP BAGS MUST BE PLACED SUCH THAT NO GAPS ARE EVIDENT WITH THE LOWER LAYER OF BAGS

2 GRAVEL BAG BARRIER DETAIL
C-7.0 NOT TO SCALE



NOTE: PAVEMENT STRUCTURE SHALL BE RESTORED TO EQUAL OR BETTER THAN EXIST. IN THICKNESS AND QUALITY.

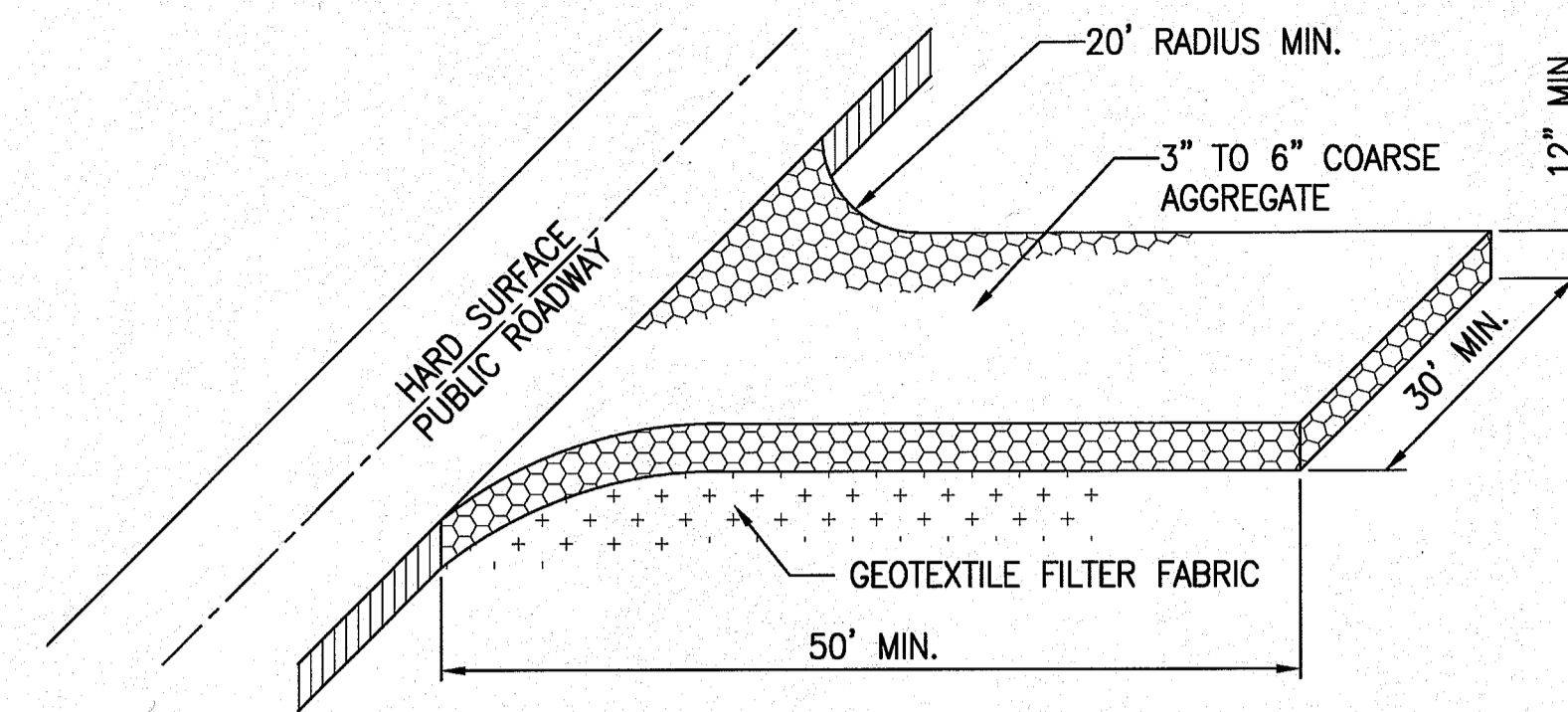
7 SMOOTH RIDING CONNECTION DETAIL
C-7.0 3/4" = 1'-0"



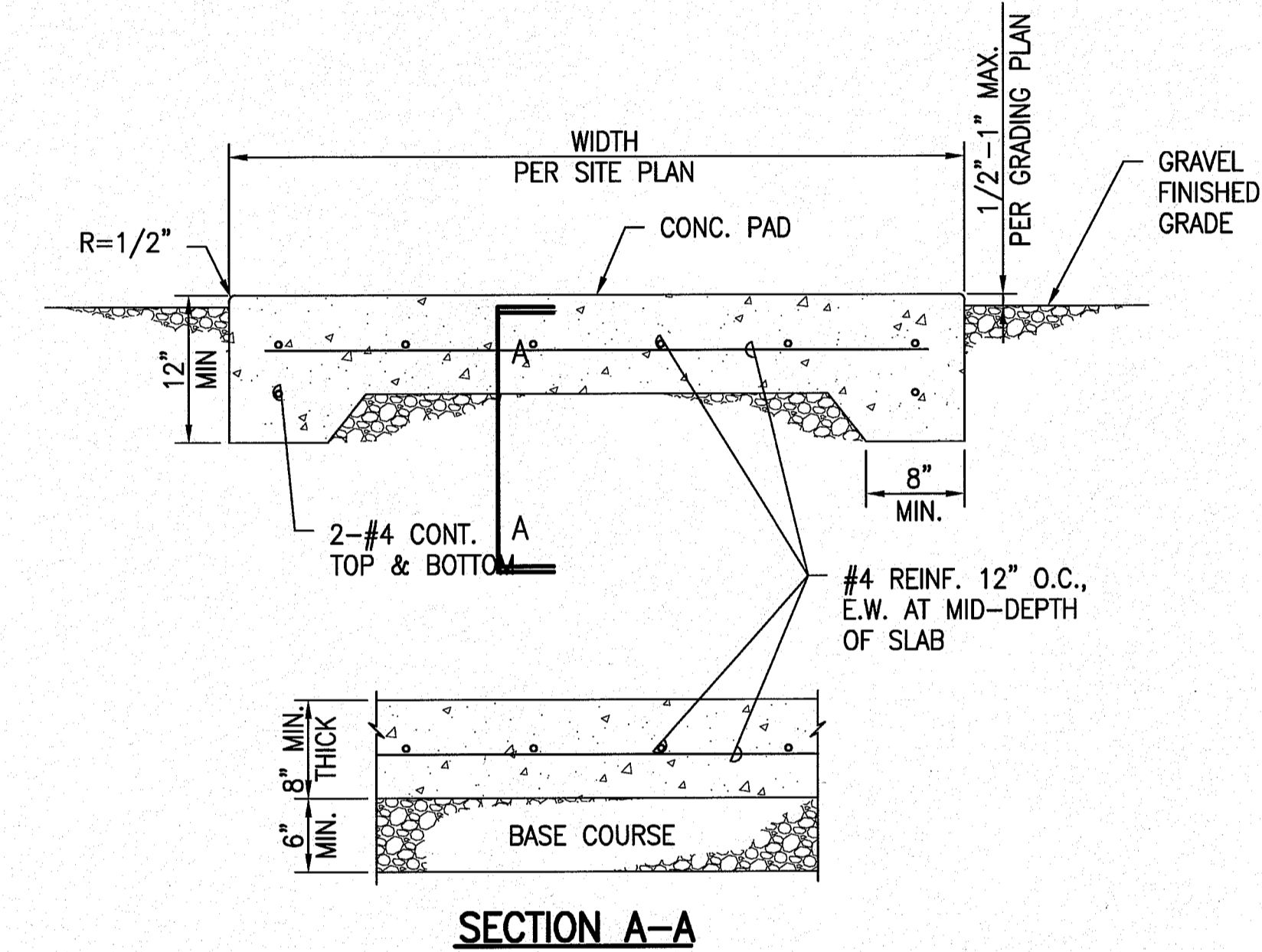
NOTES:

1. ALL JOINT EDGES SHALL BE TOOLED WITH 1/2" RADIUS.
2. ALL JOINTS TO BE FILLED SHALL BE SLIGHTLY UNDER FILLED WITH JOINT SEALER CONFORMING TO ASTM 1190.
3. ALL JOINTS SHALL BE MECHANICALLY CLEANED, PRIMED AND PREPARED IMMEDIATELY BEFORE INSTALLATION OF JOINT SEALER.

9 CONCRETE JOINTING DETAIL
C-7.0 NOT TO SCALE



3 STABILIZED CONSTRUCTION ENTRANCE
C-7.0 NOT TO SCALE

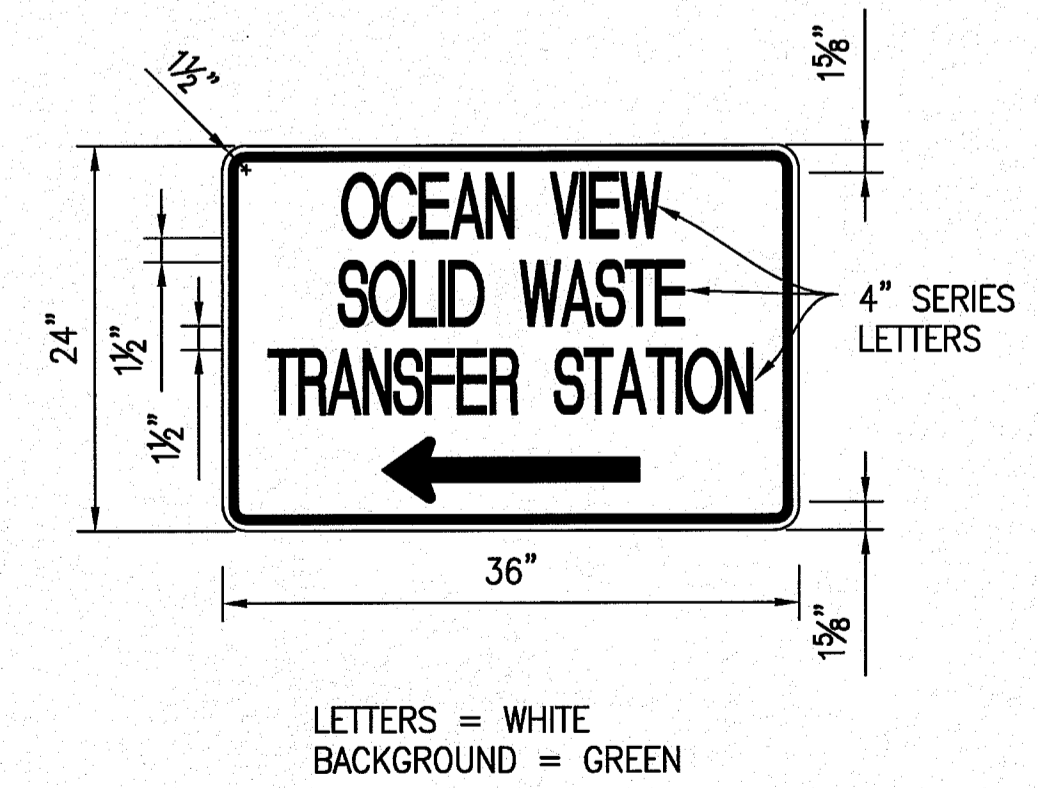


SECTION A-A

NOTES:

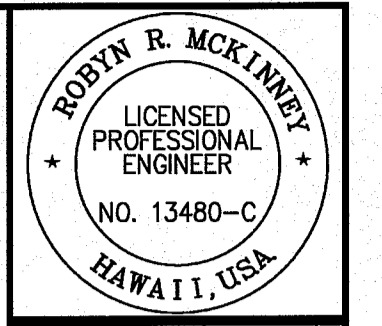
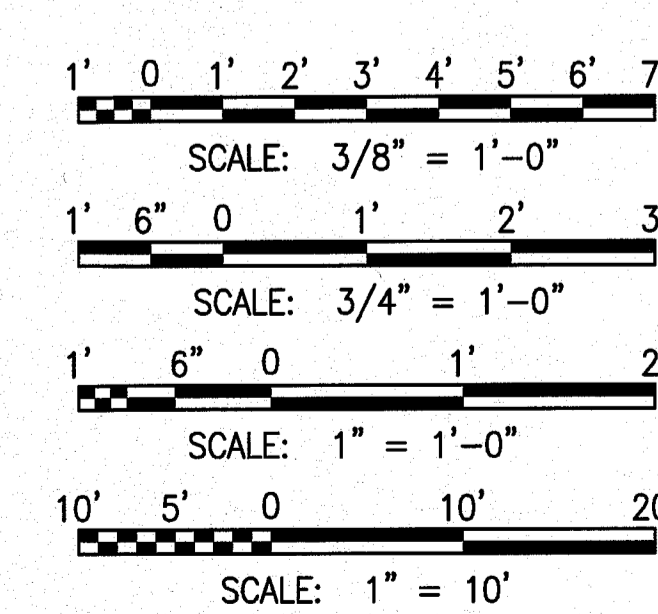
1. CONCRETE SHALL BE f'c=4000 PSI
2. MINIMUM 6" BASE COURSE

8 CONCRETE PAD DETAIL
C-7.0 NOT TO SCALE



10 FACILITY SIGN DETAIL
C-7.0 NOT TO SCALE

GRAPHIC SCALE:



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4/20/2010
Professional Engineer
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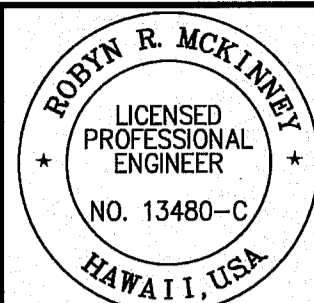
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CIVIL DETAILS
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HA_CIVIL_3D PROJECTS 2016_162-000 DEM HOVE TRANSFER STATION 01 CIVIL DRAWINGS C7.0 CIVIL DETAILS 1.DWG 7/25/2018 11:48 AM KSW



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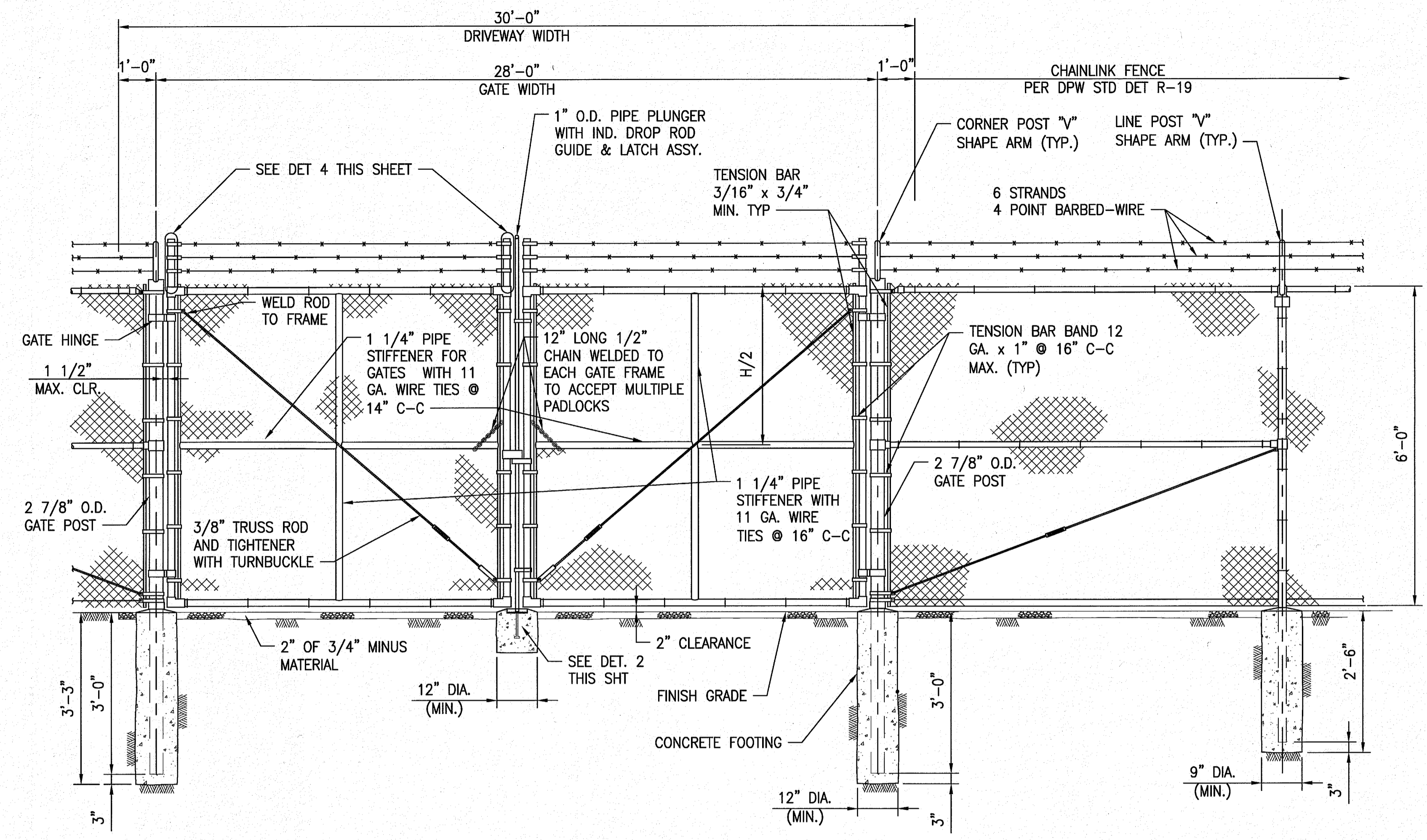
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DOUBLE SWING CHAIN LINK GATE DETAIL
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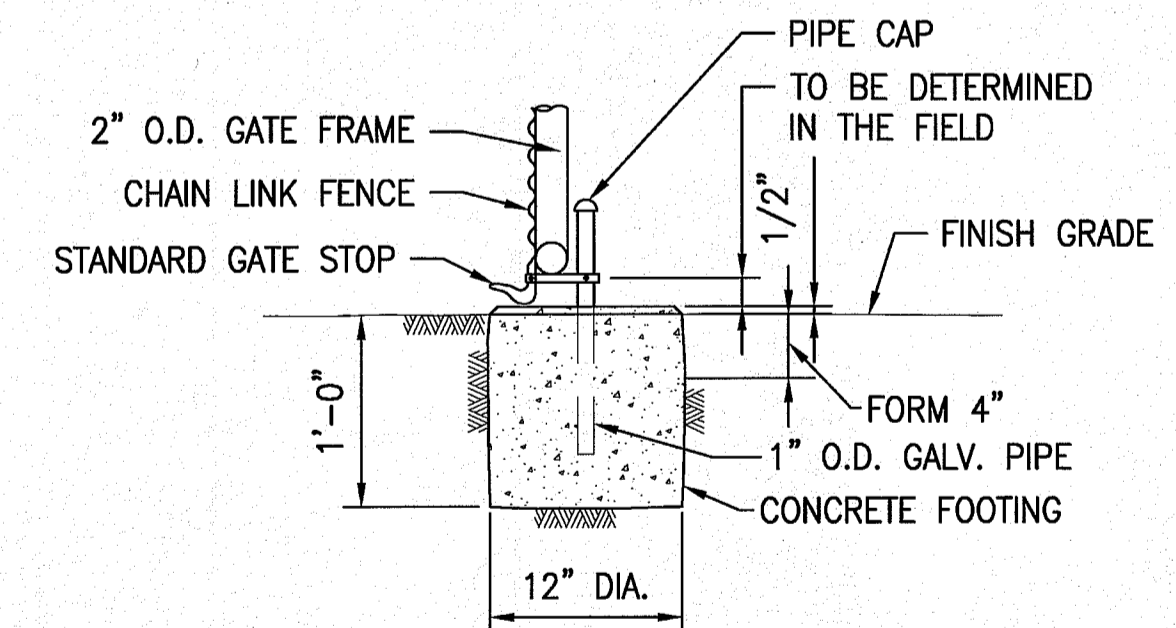
DATE: JULY 2018
 SHEET NUMBER: C-7.1
 15 OF 17 SHEETS

CHAINLINK FENCE AND GATE NOTES

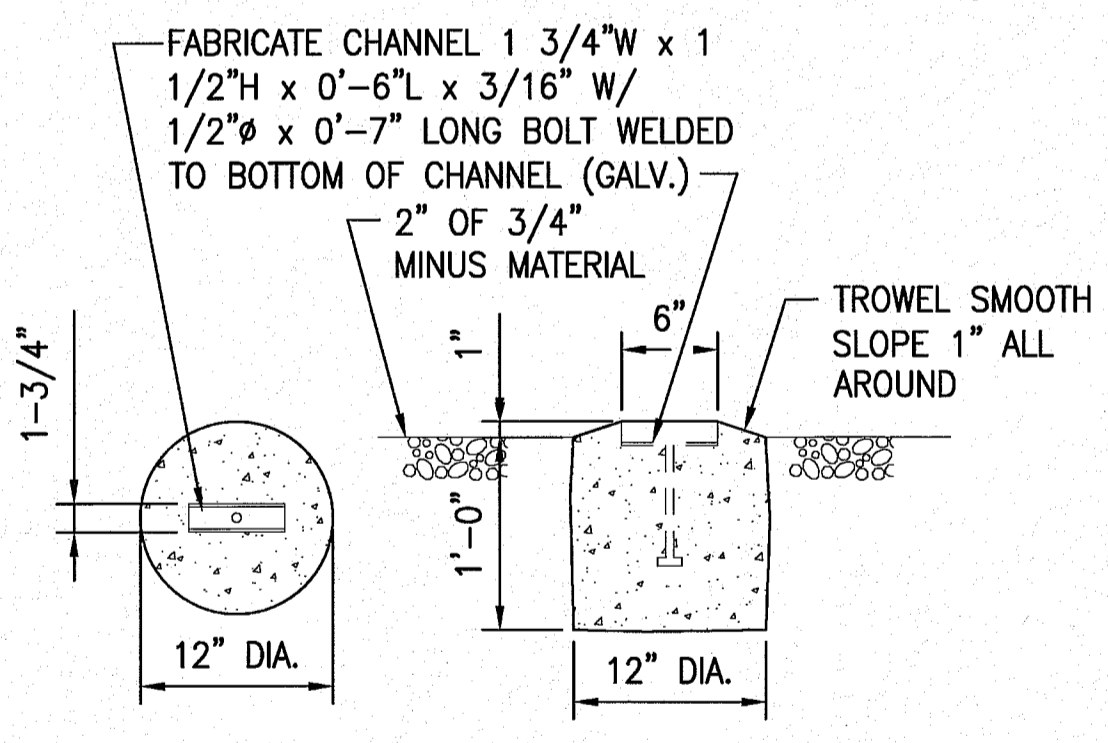
1. MATERIALS FOR GATES SHALL CONFORM TO SECTION 206-6 OF THE STANDARD SPECIFICATIONS EXCEPT AS INDICATED HEREON OR MODIFIED BY PROJECT PLANS.
2. FABRIC SHALL HAVE KNUCKLED FINISH ON BOTH TOP AND BOTTOM EDGES.
3. ALL GATE HINGES SHALL BE HEAVY DUTY MALLEABLE IRON STEEL, INDUSTRIAL SERVICE TYPE AND NOT LESS THAN 3-INCHES IN WIDTH.
4. ALL TIES SHALL BE GALVANIZED STEEL.
5. CONSTRUCTION OF GATES SHALL CONFORM TO SECTION 304-3 OF THE STANDARD SPECIFICATIONS EXCEPT AS INDICATED HEREON OR MODIFIED BY PROJECT PLANS.
6. CAP OR TOP SHALL BE SECURED TO POST USING 1/4-INCH TACK WELDED.
7. CORNER OR SLOPE POSTS SHALL BE INSTALLED WHEN THE CHANGE IN DEFLECTION ANGLE IS 30 DEGREES OR MORE AT CORNER OR SLOPE POINTS. CONSTRUCT SLOPE POSTS AS THOUGH THEY WERE CORNER POSTS.
8. INTERMEDIATE POSTS SHALL BE PROVIDED WHEN THE DISTANCE BETWEEN CORNER OR SLOPE POSTS EXCEEDS 300 FEET. THEY SHALL BE CONSTRUCTED AS THOUGH THEY WERE CORNER OR SLOPE POSTS.
9. THREADS OF ALL 3/8-INCH ROUND TRUSS SHALL BE PEENED AFTER INSTALLATION.
10. WHEN TOP RAIL IS OMITTED BY PLAN, PROVIDE 7-GAGE TENSION WIRE WITH II-GAGE FABRIC TIES OR HOG RINGS SPACED AT 24-INCH INTERVALS.
11. GATES SHALL BE PROVIDED WITH A COMBINATION SPRING LATCH AND PLUNGER ROD, APPROVED BY THE ENGINEER.
12. TENSION WIRE SHALL BE SECURELY FASTENED TO THE TERMINAL POSTS AND BE TAUT AND FREE OF SAG.
13. THE FABRIC SHALL BE PLACED ON THE OUTWARD FACING SIDE OF THE POSTS, STRETCHED TAUT, AND FASTENED SECURELY.
14. FOR CHAIN LINK FENCE SEE DPW STD DETAIL R-19.



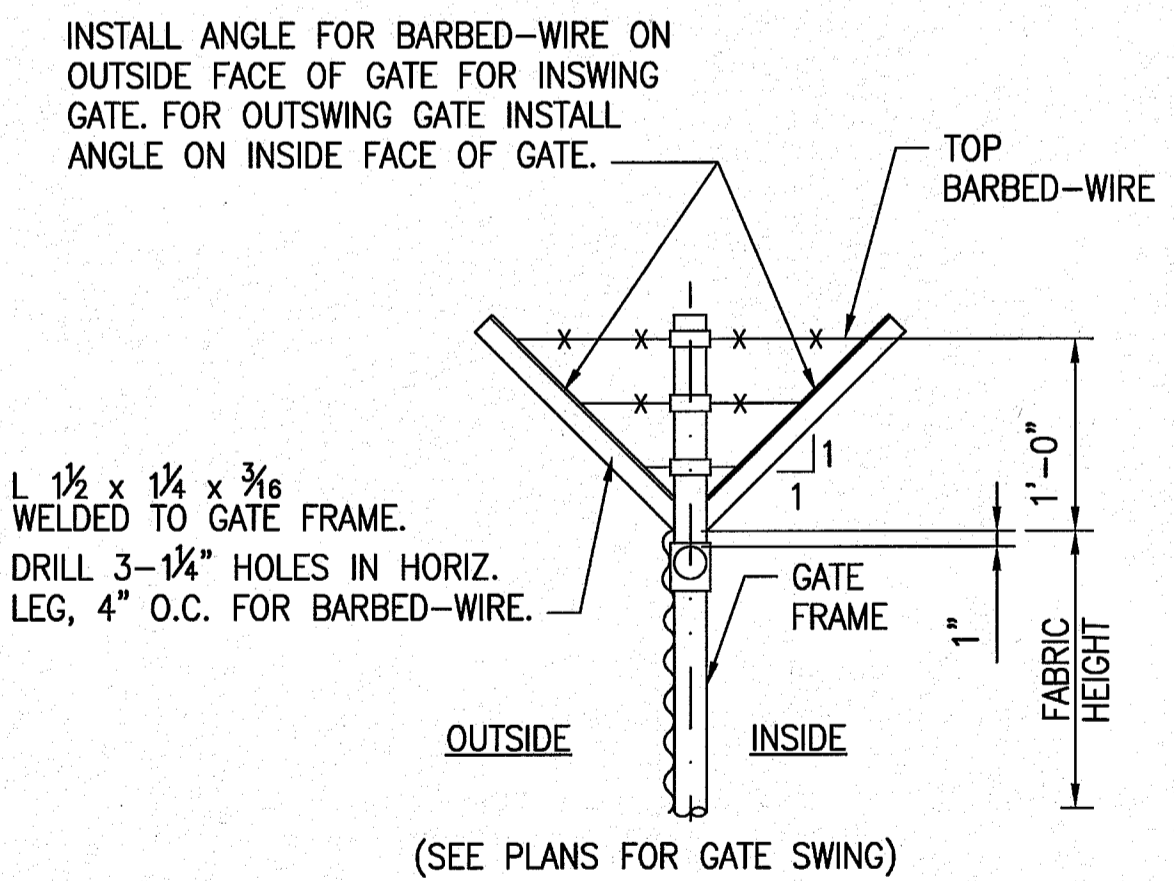
1 6' CHAINLINK FENCE WITH DOUBLE SWING GATE
 C-7.1 NOT TO SCALE



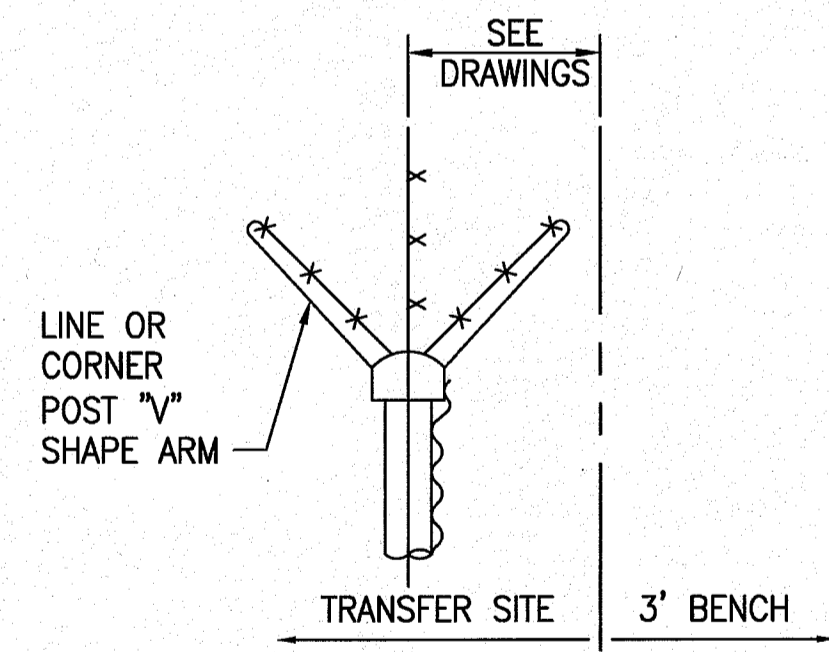
2 GATE KEEPER DETAIL
 C-7.1 1"=1'-0"



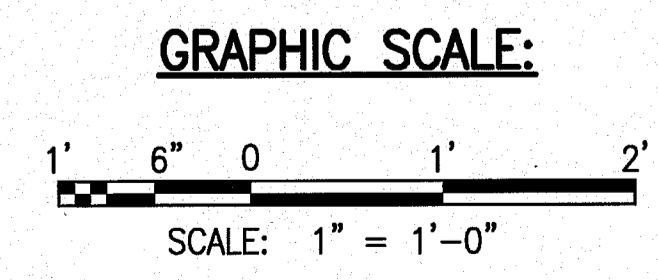
3 GATE STOP DETAIL
 C-7.1 1"=1'-0"



4 DETAIL
 C-7.1 1"=1'-0"



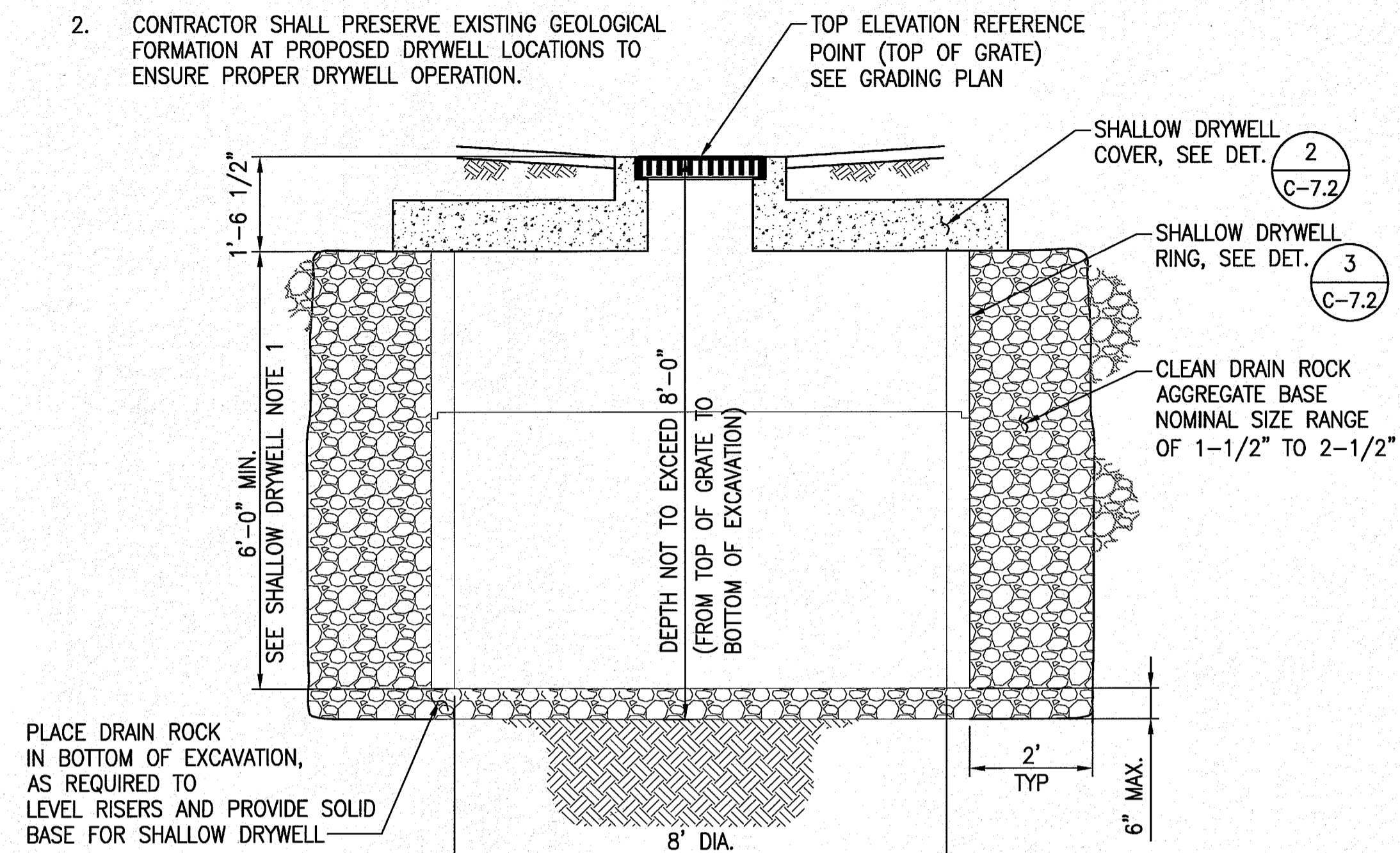
5 DETAIL
 C-7.1 1"=1'-0"



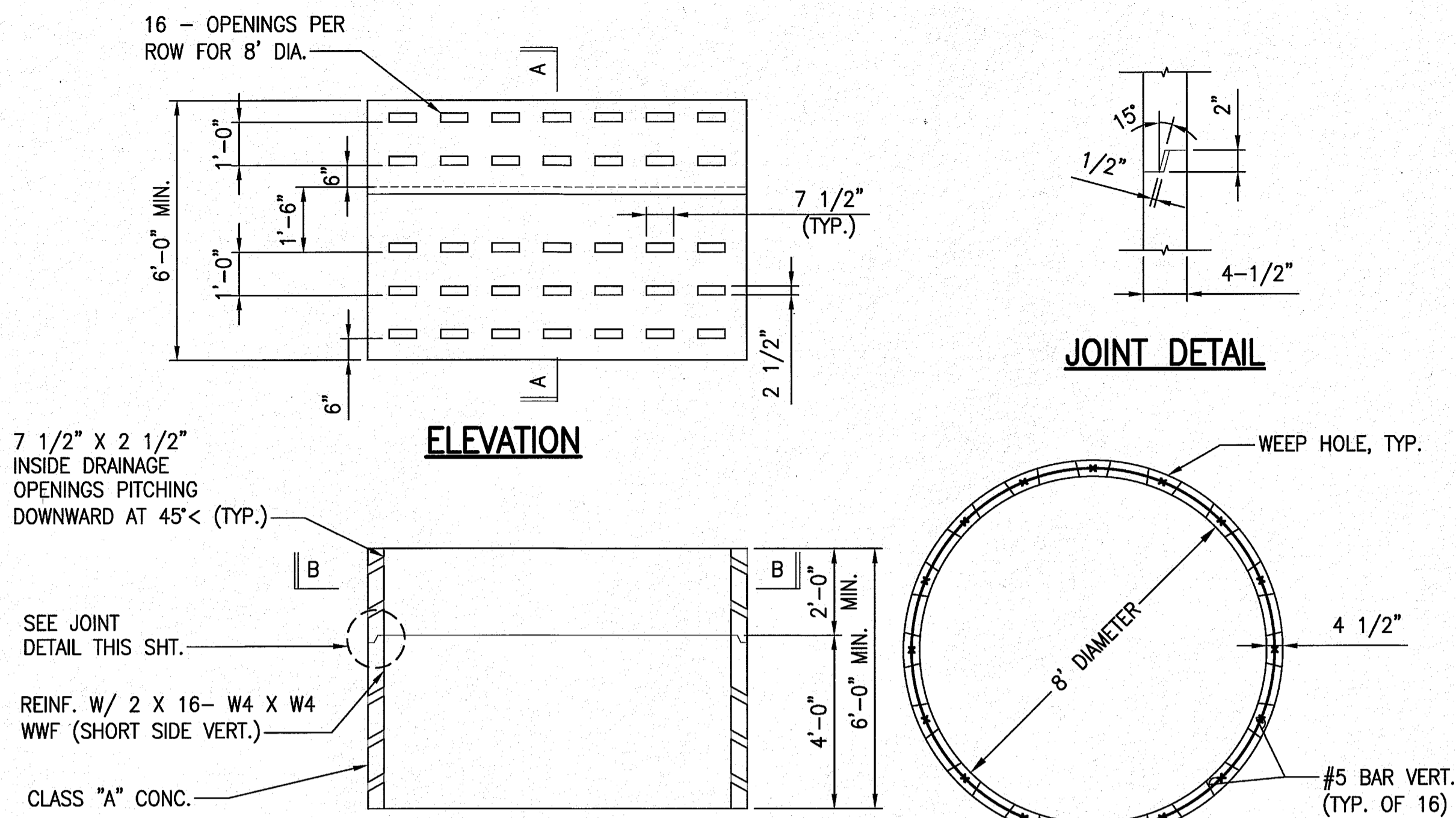
W:_CIVIL_3D PROJECTS\2016_182,000 DEV HOVE TRANSFER STATION\01 CIVIL DRAWINGS\C7.1 CIVIL DETAILS 2.DWG - 5/28/2018 11:42 AM MCKINNEY

SHALLOW DRYWELL NOTES:

1. CONCRETE-28 DAY COMPRESSIVE STRENGTH = 4000 PSI.
2. CONTRACTOR SHALL PRESERVE EXISTING GEOLOGICAL FORMATION AT PROPOSED DRYWELL LOCATIONS TO ENSURE PROPER DRYWELL OPERATION.



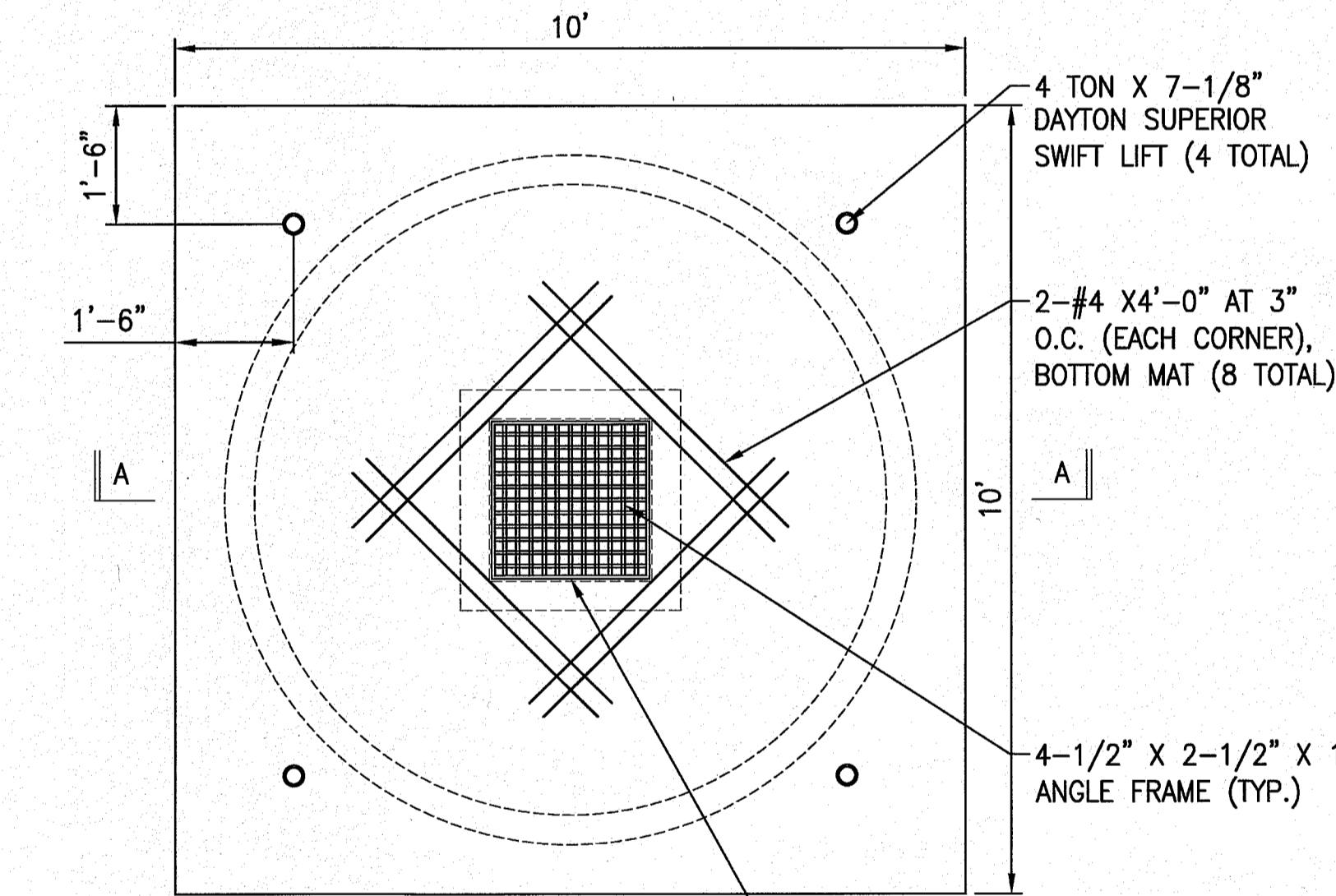
1 SHALLOW DRYWELL
C-7.2 NOT TO SCALE



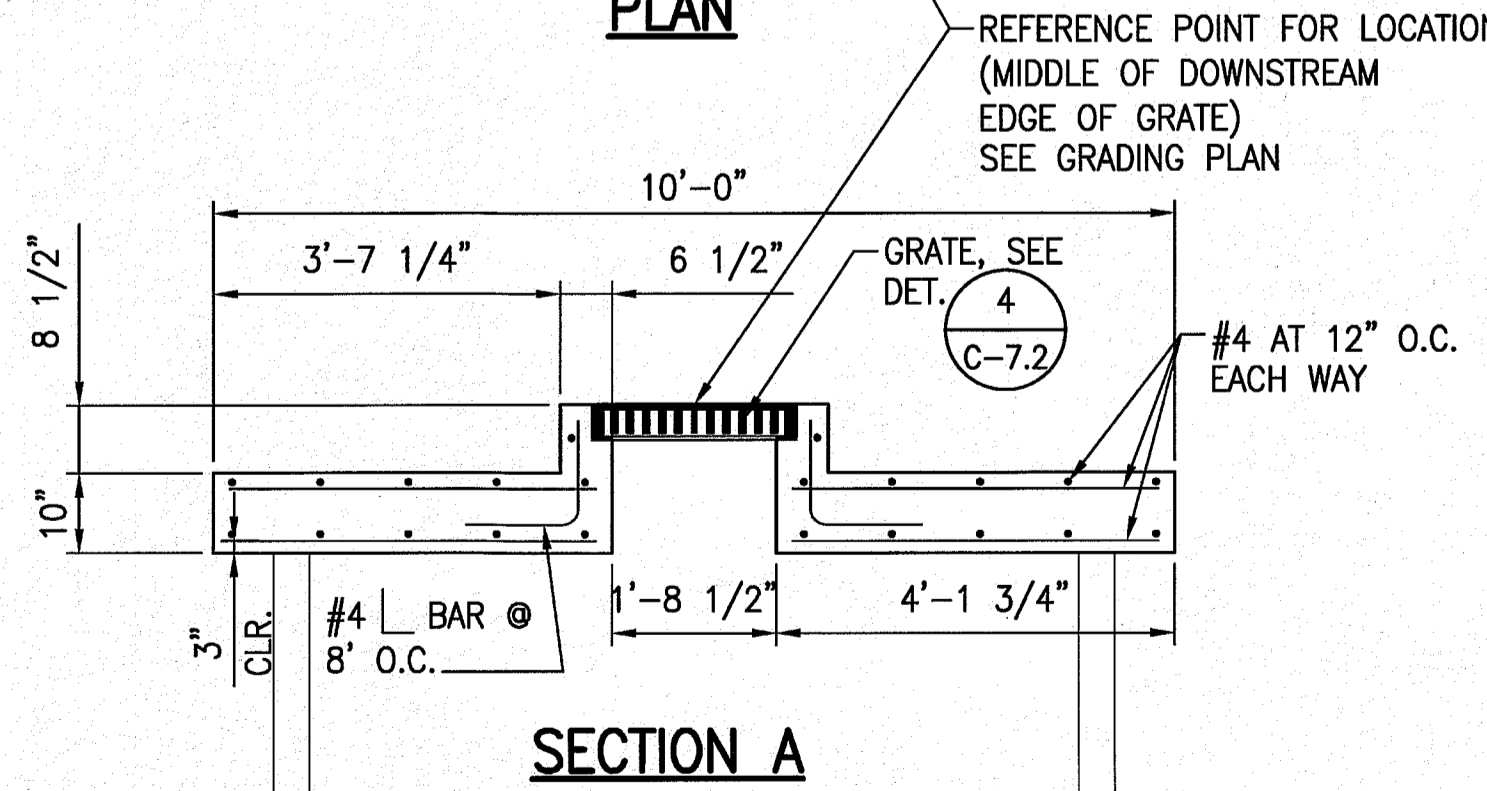
3 DRYWELL RING DETAILS
C-7.2 NOT TO SCALE

NOTES:

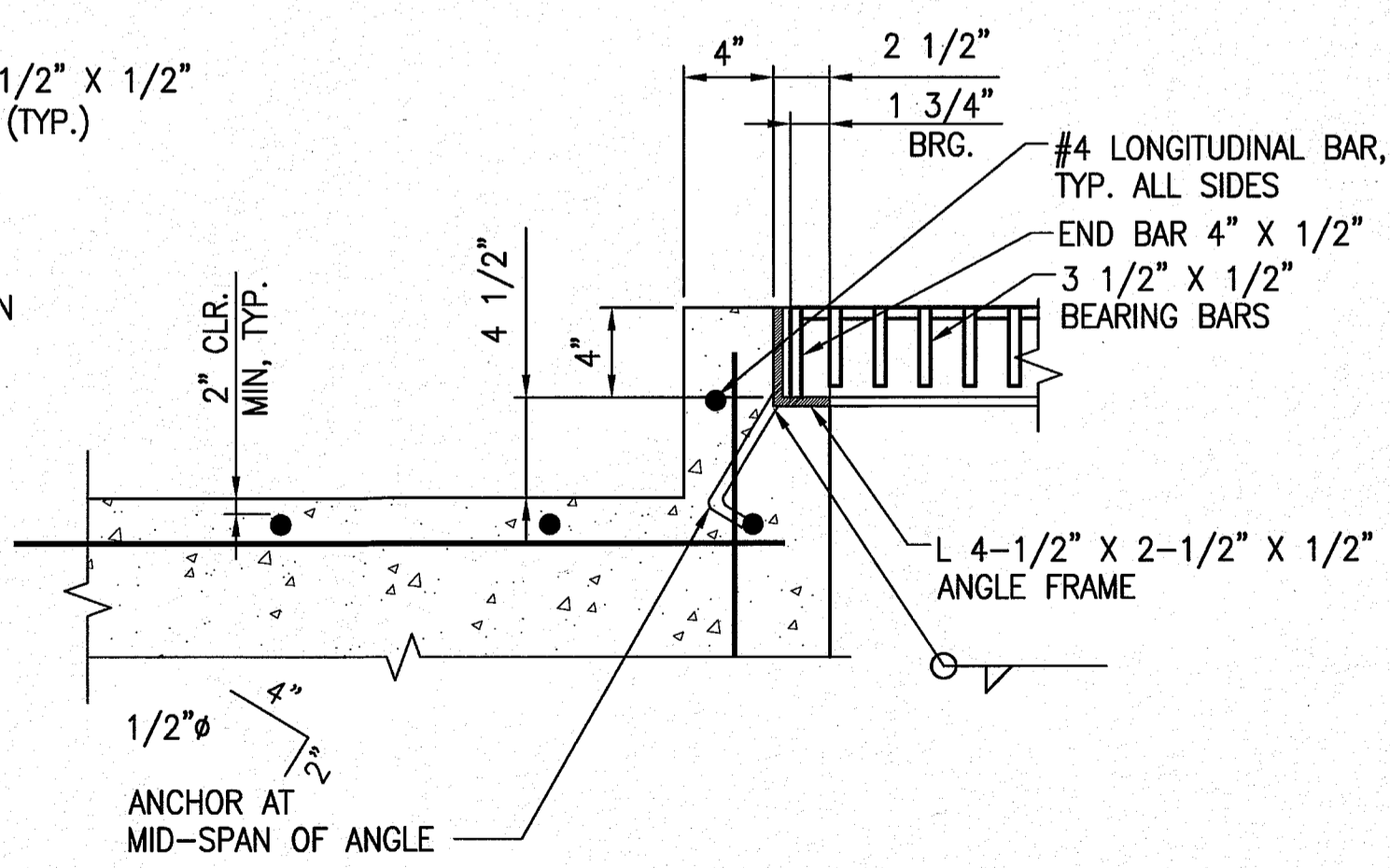
1. ALL WELDS 3/8".
2. ALL STEEL SHALL BE STRUCTURAL GRADE.
3. GRATES AND FRAME SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
4. PROVIDE 4 UNIVERSAL FASTENERS PER COATING.
5. GRATING BAND BARS SHALL BE WELDED FLUSH WITH TOP OF GRATING.
6. ADD TWO 3/8" DIA. BOTTOM CROSS BARS TO GRATING NEAR CENTER.



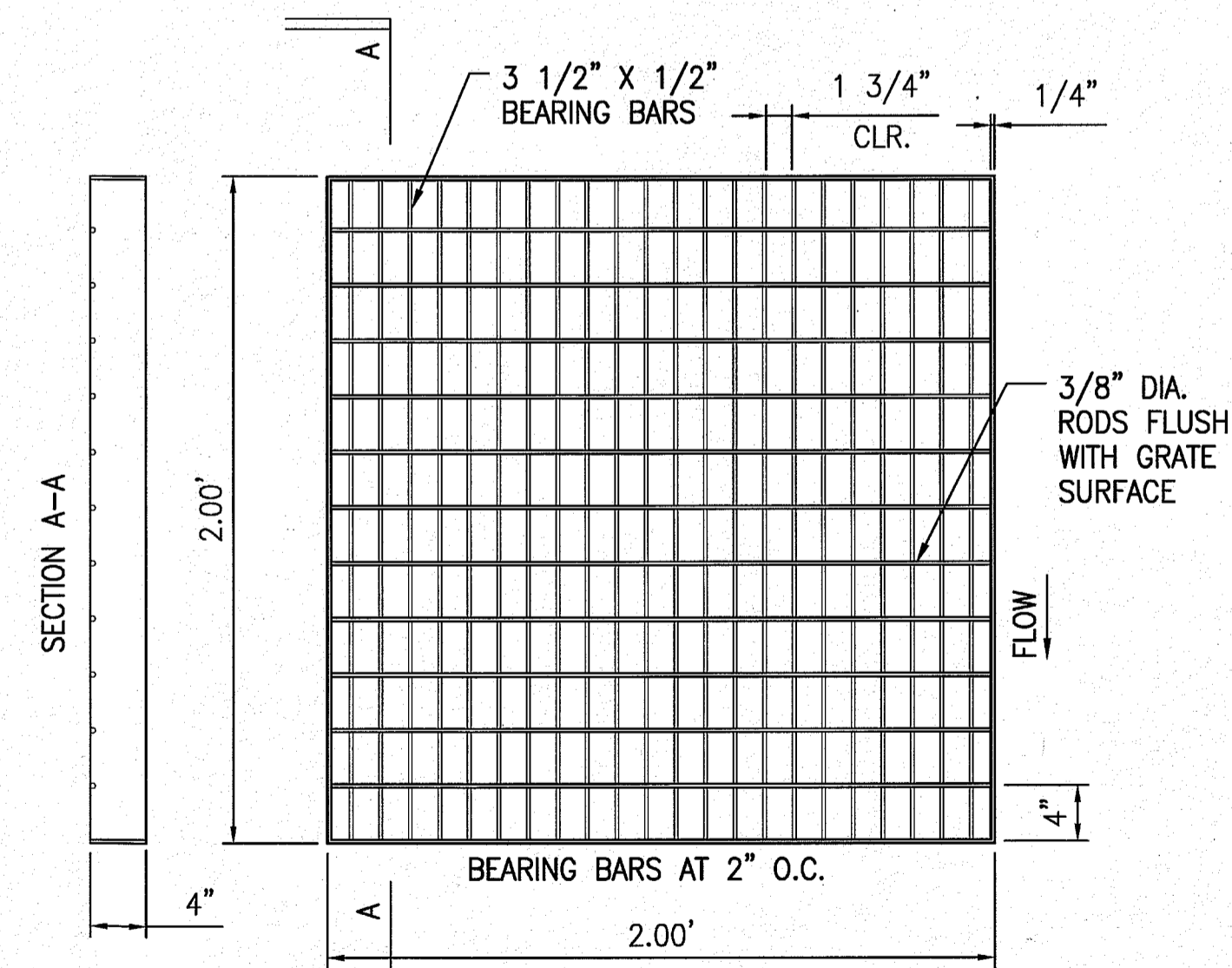
PLAN



SECTION A



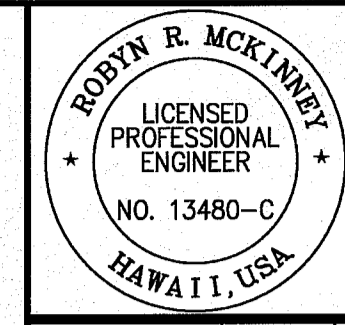
GRATING SEAT DETAIL



PLAN

4 DRYWELL GRATING DETAIL
C-7.2 NOT TO SCALE

2 DRYWELL COVER DETAILS
C-7.2 NOT TO SCALE



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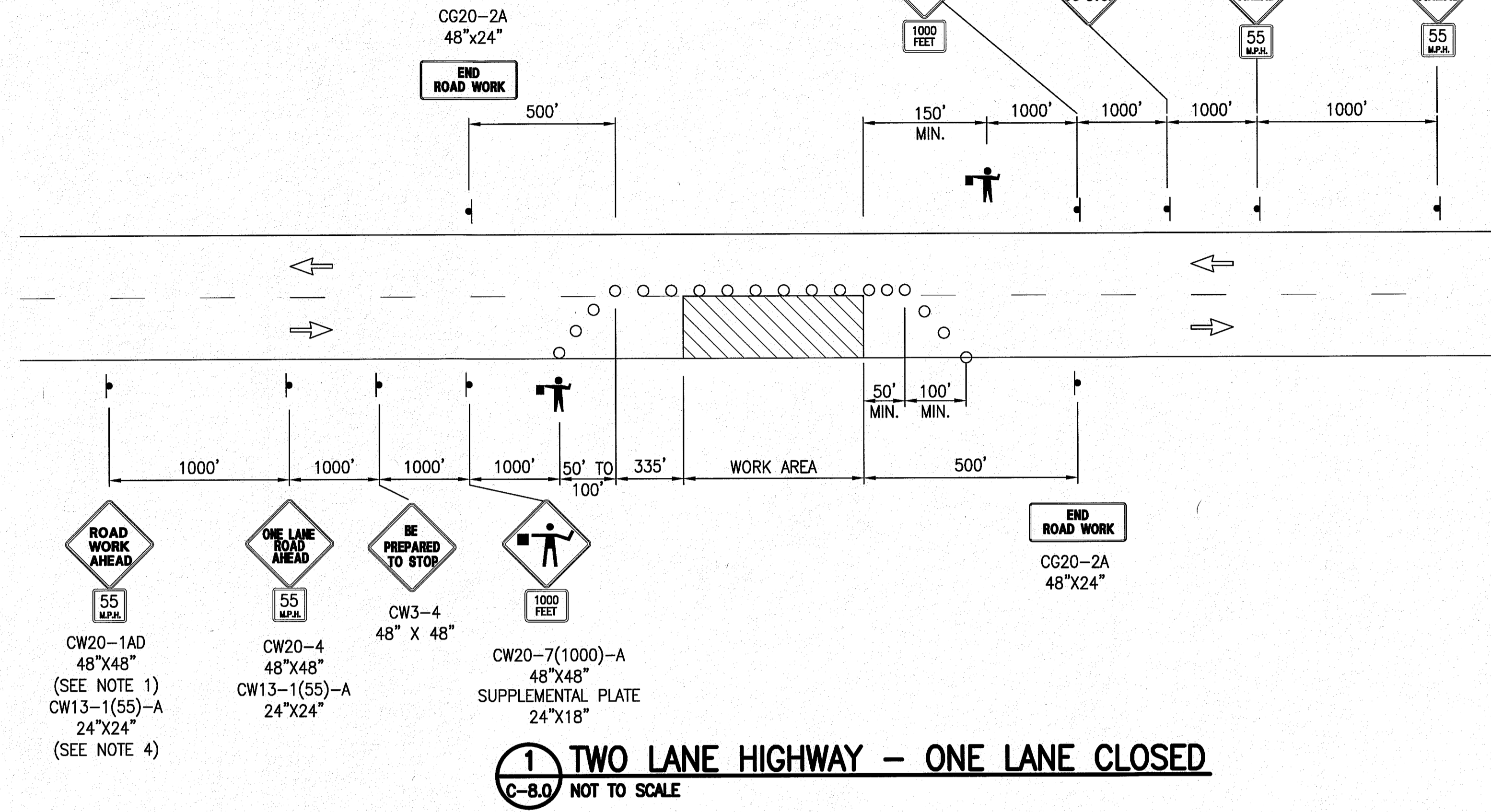
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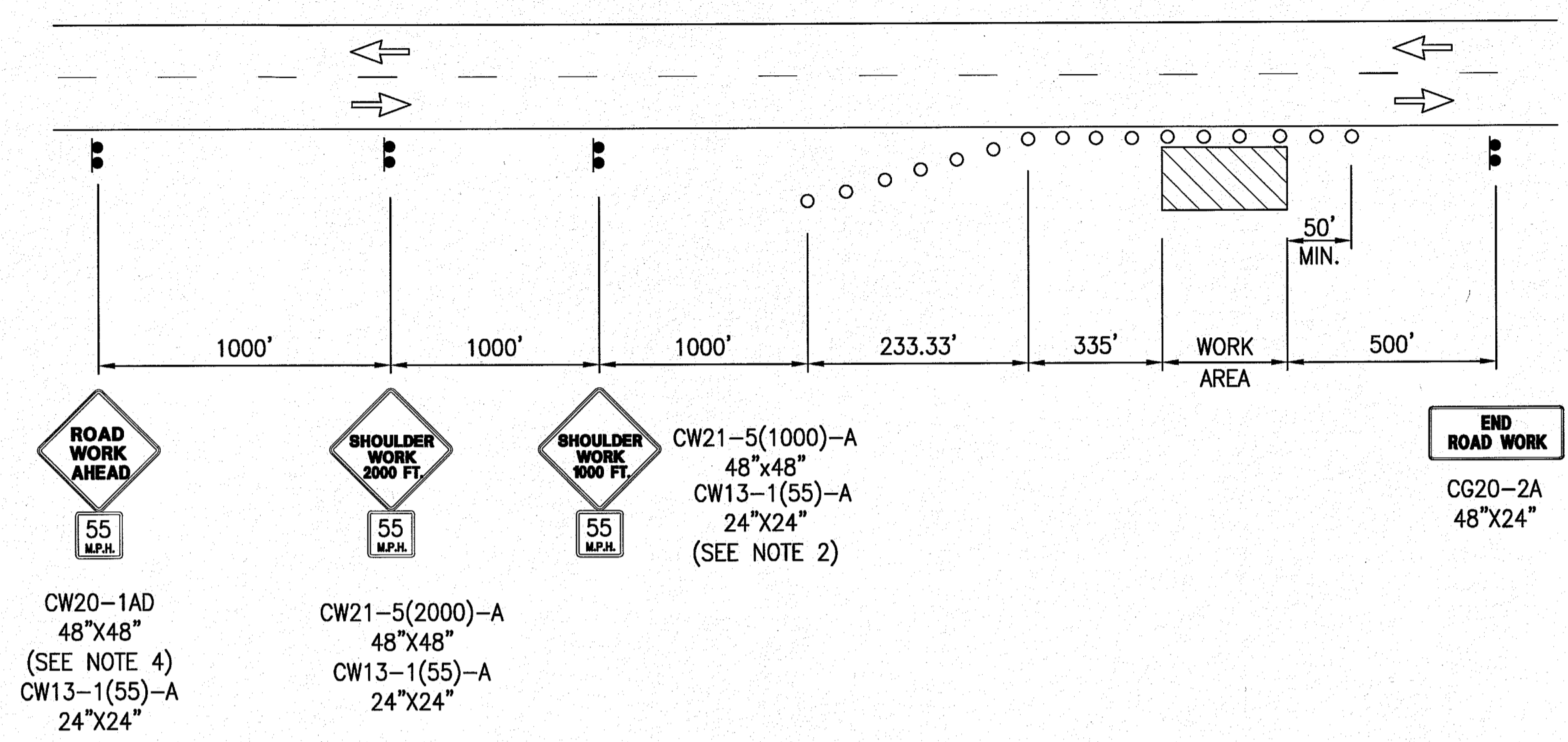
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NOTES:

1. CW20-1AD SIGN REQUIRED FOR POSTED SPEED LIMIT OF 45 MPH OR GREATER.
2. ONE LANE ROAD (CW20-4) AND FLAGGER AHEAD (CW20-7) SIGNS SHALL BE REMOVED OR COVERED WHEN NO WORK IS BEING PERFORMED AND LANE IS NOT CLOSED.
3. CONES OR DELINEATORS SHALL BE INSTALLED AT 25' O.C. MAX. ON TAPERS, 55' O.C. MAX. ON TANGENTS AND 10' O.C. MAX. ON WORK AREAS.
4. ENGINEER WILL DETERMINE IF ADVISORY SPEED SIGN IS NECESSARY.



1 TWO LANE HIGHWAY - ONE LANE CLOSED
C-8.0 NOT TO SCALE



NOTES:

1. THIS PLAN MAY BE USED ONLY IF ALL ROAD WORK, INCLUDING EQUIPMENT AND WORKERS ARE OFF THE TRAVEL WAY.
2. ENGINEER WILL DETERMINE IF ADVISORY SPEED SIGN IS NECESSARY.
3. CONTRACTOR WILL PROVIDE NECESSARY ADJUSTMENTS TO ACCOMMODATE BICYCLISTS AND PEDESTRIANS.
4. CW20-1AD SIGN REQUIRED FOR POSTED SPEED LIMIT OF 45 MPH OR GREATER.
5. SIGNING IS NOT REQUIRED IF THE WORK AREA INCLUDING EQUIPMENT AND WORKERS IS OUTSIDE THE CLEAR ZONE DISTANCE, AS SPECIFIED IN THE LATEST AASHTO ROADSIDE DESIGN GUIDE.
6. CONES OR DELINEATORS SHALL BE INSTALLED AT 55' O.C. MAX. ON TAPERS AND TANGENTS AND 10' O.C. MAX. ON WORK AREAS.

2 WORKING ON SHOULDER OR ROADSIDE
C-8.0 NOT TO SCALE

LEGEND

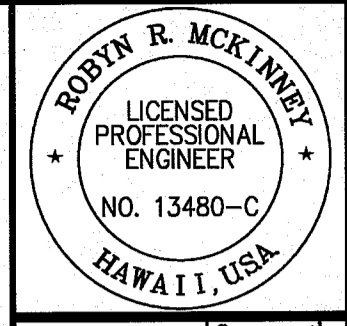
- ○ ○ ○ CONES OR DELINEATOR
- ⇒ DIRECTION OF TRAFFIC
- ↓ SIGN
- ▨ WORK AREA

GENERAL NOTES FOR TRAFFIC CONTROL PLAN

1. THE PERMITTEE SHALL MAKE MINOR ADJUSTMENTS AT INTERSECTIONS, DRIVEWAYS, BRIDGES, STRUCTURES, ETC., TO FIT FIELD CONDITIONS.
2. CONES OR DELINEATORS SHALL BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
3. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED SUCH THAT THE SIGN OR DEVICE FARTHEST FROM THE WORK AREA SHALL BE PLACED FIRST. THE OTHERS SHALL THEN BE PLACED PROGRESSIVELY TOWARD THE WORK AREA.
4. REGULATORY AND WARNING SIGNS WITHIN THE CONSTRUCTION ZONE THAT ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR COVERED. ALL SIGNS SHALL BE RESTORED UPON COMPLETION OF WORK.
5. FLAGGERS AND/OR POLICE OFFICERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
6. WHEN REQUIRED BY THE ISSUING OFFICE, THE PERMITTEE SHALL INSTALL A FLASHING ARROW SIGNAL.
7. SIGN SPACINGS (D) AND TAPER LENGTHS (T) AND SPACINGS OF CONES OR DELINEATORS SHALL BE AS SHOWN.
8. ALL TRAFFIC LANES SHALL BE A MINIMUM OF 10' WIDE.
9. ALL CONSTRUCTION WARNING SIGNS SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE MESSAGE IS NOT APPLICABLE OR NOT IN USE.
10. THE BACKS OF ALL SIGNS USED FOR TRAFFIC CONTROL SHALL BE APPROPRIATELY COVERED TO PRECLUDE THE DISPLAY OF INAPPLICABLE SIGN MESSAGES (I.E., WHEN SIGNS HAVE MESSAGES ON BOTH FACES).
11. AT THE END OF EACH DAY'S WORK OR AS SOON AS THE WORK IS COMPLETED, THE PERMITTEE SHALL REMOVE ALL TRAFFIC CONTROL DEVICES NO LONGER NEEDED TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC. REMOVAL SHALL BE IN THE REVERSE ORDER OF INSTALLATION.
12. PERMANENT PAVEMENT MARKINGS AND TRAFFIC SIGNS SHALL BE REPLACED UPON THE COMPLETION OF EACH PHASE OF WORK.

ADDITIONAL TRAFFIC CONTROL PLAN NOTES

1. REPLACE EXISTING, FADED, OR OBLITERATED PAVEMENT MARKINGS THAT ARE NECESSARY FOR SAFE TRAFFIC FLOW IN THE CONSTRUCTION AREA WITH TEMPORARY OR PERMANENT MARKINGS BEFORE OPENING THE ROADWAY TO PUBLIC TRAFFIC EACH DAY.
2. TRAFFIC CONTROL PLANS ARE APPROVED FOR WORK ON HDOT-STATE HIGHWAYS ONLY BETWEEN THE HOURS OF 8:30 A.M. TO 3:00 P.M.
3. THE SCOPE OF SERVICES SHALL INCLUDE PREPARATION OF A PRELIMINARY TRAFFIC CONTROL PLAN ("TCP"). IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FULLY FAMILIAR WITH THE SITE, THE PROJECT AND THE TRAFFIC CONTROL NEEDS TO CONSTRUCT THE PROJECT COMPLETE IN PLACE AND OPERATIONAL AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE TCP FOR THE PROTECTION OF TRAFFIC THROUGH ANY AND ALL PORTIONS OF THE CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COMPLY WITH ALL OF THE REQUIREMENTS AND TECHNICAL SPECIFICATIONS OF THE TCP. IN ADDITION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE CONTINUOUS AND EXPEDITIOUS MAINTENANCE OF ALL CONSTRUCTION WARNING SIGNS, BARRICADES, LIGHTS, FLAGGERS AND ALL OTHER TRAFFIC CONTROL MEASURES AND/OR DEVICES REQUIRED BY THE TCP. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUSLY REVIEWING AND MAINTAINING ALL TRAFFIC CONTROL MEASURES.
4. THE CONSULTANT SHALL NOT SUPERVISE, DIRECT OR HAVE CONTROL OVER THE CONTRACTOR'S WORK OR HAVE ANY RESPONSIBILITY FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES SELECTED BY THE CONTRACTOR OR FOR THE CONTRACTOR'S SAFETY AND TRAFFIC CONTROL PRECAUTIONS OR PROGRAMS IN CONNECTION WITH THE WORK. THESE RIGHTS AND RESPONSIBILITIES ARE SOLELY THOSE OF THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. HELCO HEREBY AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS THE CONSULTANT, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS AGAINST ALL DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ASSOCIATED WITH THE CONTRACTOR'S IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN.
5. ACCESS MUST BE PROVIDED AT ALL TIMES FOR ALL DRIVEWAYS AND SIDE ROADS AROUND THE CONSTRUCTION AREA.



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OCEAN VIEW
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AND RECYCLING CENTER
PROJECT NO. SW-4325
TMK: (3) 9-2-150-060

TRAFFIC CONTROL PLAN - OFFSITE IMPROVEMENTS
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