

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-0-01-08	2010	ADD.3	34

GENERAL NOTES

1. The project includes the construction of a drying bed facility. The work includes construction of four settling basins; four filter beds; four dry storage pads; collection and transport pipes; installation of an oil-water separator and flow meter; new access road pavement; concrete sidewalk and lighting.
2. The Contractor is reminded of the requirements of Subsection 108.01 - Subletting of Contract, which requires him to perform work to not less than 30 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
3. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 107.12 - Protection of Persons and Property; and Section 645 - Work Zone Traffic Control
4. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
5. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data, but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall tone for the exact locations and depths of all underground facilities, either shown on or omitted from the plans, in areas where work, such as the placement of sign posts, traffic signal conduits, etc. may affect these properties. Toning shall be considered incidental to the various contract items and will not be paid for seperately. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
6. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.
7. The Contractor shall obtain a Community Noise permit from the State Department of Health, Noise and Radiation Branch, 591 Ala Moana Blvd., Room 136, Honolulu, HI 96813-2498; Telephone No. 586-4700. This shall be considered incidental to Section 107.2 and will not be paid for separately.
8. The Contractor shall indemnify and be solely responsible for the protection of adjacent properties, utilities and existing structures from damages due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
9. Existing drainage system will be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to their respective bid items and will not be paid for separately.
10. Smooth riding connections shall be constructed at all limits of project, including the beginning and end of project, connecting approaches, side streets, walkways and driveways as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to their respective bid items and will not be paid for separately.
11. Removal and disposal of existing curb and gutter, curb, sidewalk and asphalt concrete pavement, curb, sidewalk and any debris shall be considered incidental to their respective bid items.
12. All saw cutting work shall be considered incidental to their respective bid items and will not be paid for separately.
13. Prior to placement of new aggregate subbase course, the existing subbase shall be compacted to a relative compaction greater than or equal to 95%.

GENERAL NOTES (Continued)

14. The Contractor shall provide and maintain for access to and from all existing driveways, sidewalks and ADA access routes complying with ADAAG Section 4.3, and side streets and cross streets at all times. This work shall be considered incidental to their respective bid items and will not be paid for separately.

TRAFFIC NOTES FOR WORK ON CITY & COUNTY STREETS

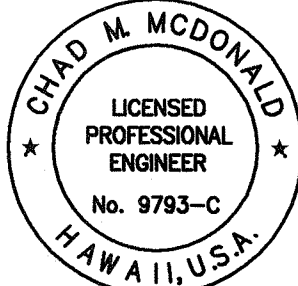
1. A permit shall be obtained from the Department of Transportation Services before work on any portion of a public street or highway may begin. Construction traffic control plans approved by the Department of Transportation Services and/or the Department of Planning and Permitting must be provided when applying for the permit.
2. The contractor shall provide, install, and maintain all necessary signs and other protective facilities, which shall conform with the "Hawaii Administration Rules 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 Highways Administration's "Manual on Uniform Traffic Controls Devices for Streets and Highways, Part VI - Traffic Controls for Street and Highway Construction and Maintenance Operations."
3. Work on any city street area may be performed only between the hours of 8:30 A.M. To 3:30 P.M., Monday through Friday, unless otherwise permitted by the Department of Transportation Services.
4. During working hours, the contractor shall provide for through traffic. During non-working hours, all trenches shall be covered with a safe non-skid bridging material and all lanes shall be open to traffic.
5. As required by the Department of Transportation Services, the contractor shall provide off-duty police officers to control the flow of traffic.
6. Where pedestrian walkways exist, they shall be maintained in passable condition in accordance with ADAAG 4.1.1(4) and 4.3, or other facilities for pedestrians shall be provided. Passage between walkways at intersections shall likewise be provided.
7. Driveways shall be kept open unless the owners of the property using these Rights-Of-Way are otherwise provided for satisfactorily.
8. Contractors shall reference to the approval of the the Department of Planning and Permitting, 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 his activities.
9. The contractor shall notify the Department of Planning and permitting at 768-8084 one (1) week prior to any work to be done on signs, posts and pavement markings.
10. No equipment shall be stored within street Rights-Of-Way except at locations designated in writing and approved by the Department of Transportation Services.

LEGEND

- Existing Electrical Line
- New Electrical Line
- Existing Joint Pole
- Existing Power Pole
- Existing Electric Manhole
- Adjusted Elec. MH Frame/Cover
- New Electric Manhole
- Existing Telephone Line
- Existing Telephone Pole
- Existing Telephone Manhole
- Existing Signal Corps Line
- Existing TV Cable
- Existing Sandwich Isles Communication Line
- Existing 12" Water Line
- Existing Water Manhole
- Existing Water Air Valve
- Existing Water Valve Box
- Existing Water Meter
- Existing Fire Hydrant
- Existing Sewer Line
- Existing Sewer Manhole
- Existing 6" Gas Line
- Existing Gas Valve Box
- Existing Gas Manhole
- Existing Monument
- Existing 24" Drain Line
- Existing Storm Drain Manhole
- Existing Grated Drop Inlet
- Existing Catch Basin
- Existing Traffic Sign
- Existing Highway Lighting Standard
- Existing Highway Lighting Pullbox
- Existing Traffic Signal Pole
- Existing Traffic Signal Pullbox
- Existing Metal Guardrail
- New Metal Guardrail

Approved:

Chief, Traffic Review Branch, DPP Date



This work was prepared by me or under my supervision

Chad M. McDonald 4/30/2012
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

6/11/10	Deleted General Note 14 & Renumbered General Notes.
Date	Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES & LEGEND

PEARL CITY DRYING BED FACILITY
Project No. HWY-0-01-08

Scale: As Noted Date: May 2010

SHEET No. C-1 OF 21 SHEETS

CITY AND COUNTY GENERAL CONSTRUCTION NOTES

- 1. All applicable construction work shall be done in accordance with the standard specifications for public works construction, September 1986 and standard details for public works construction, September 1984, as amended, of the department of public works, city and county of Honolulu and the counties of Kauai, Maui, and Hawaii, and hrs 103.50.
- 2. The state will assure the work will be constructed in accordance with the approved plans and in conjunction with the rules relating to soil erosion standards and guidelines of the city & county of Honolulu.
- 3. The underground pipes, cables or ductlines known to exist by the contracting officer from his search of records are indicated on the plans. The contractor shall verify the locations and depths of the facilities and exercise proper care in excavating in the area. Whenever connections of new utilities to existing utilities are shown on the plans, the contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavation for the new lines.
- 4. The existing utilities have been shown on these plans insofar as it is possible to do so. Their locations as shown are approximate only and the contractor shall make independent check on the ground by probing and with the various utility companies and governmental agencies to ascertain their exact locations. If utilities not shown are suspected, require toning of these areas prior to excavation to locate them.
- 5. The contractor shall protect all existing utilities whether shown on the plans or not. Before disrupting service of any utility, the contractor shall contact the city's representative and appropriate responsible utility authority. Damage to existing utilities as a result of construction activities shall be repaired by the contractor at no additional cost to the city or state.
- 6. The contractor shall make arrangements for utilities such as electricity, etc. required for his operations, and all costs for these utilities shall be borne by the contractor.
- 7. All existing utilities to remain in use, whether or not shown on the plans, shall be protected at all times by the contractor during construction unless specified on the plans to be abandoned. Any damage to the existing utilities shall be repaired and paid for by the contractor.
- 8. Unless relocation is called for on the plans, existing utilities shall remain in-service and in place. If relocation of existing utilities is required for the contractor's convenience, interruption of service shall be kept to a minimum and shall be done at the contractor's expense and only with the approval of the contracting officer.
- 9. The contractor shall 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 contracting officer for clarification.
- 10. The existing improvements on the premises and in adjacent area that are not to be removed, shall be preserved and protected. Any and all damages resulting from the contractor's construction operation shall be replaced and repaired to original condition, at no additional cost to the owner.
- 11. The contractor shall be responsible for cleaning and restoration to original or better condition, nearby improvements affected by dust and/or other reasons resulting from the construction activity.

CITY AND COUNTY GENERAL CONSTRUCTION NOTES CONTINUED

- 12. No contractor shall perform any construction operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow into existing drainage systems, or adjoining properties, streets or natural watercourses. Should such violations occur, the contractor may be cited and the contractor shall immediately make all remedial actions necessary.
- 13. The contractor shall be responsible for conformance with the applicable provisions of the water quality and water pollution control standards contained in Hawaii administrative rules, Title 11, Chapter 54, "Water Quality Standards", and Title 11, Chapter 55, "Water Pollution Control", as well as Chapter 14 of the revised ordinances of Honolulu, as amended. Best management practices shall be employed at all times during construction.
- 14. Pursuant to Chapter 6E, HRS, in the event any artifacts or human remains are uncovered during construction operations, the contractor shall immediately suspend work and notify the Honolulu police department, the state department of land and natural resources-historic preservation division (692-8015). In addition, for non-city projects, the contractor shall inform the civil engineering branch, department of planning and permitting (768-8084); and for city projects, notify the responsible city agency.
- 15. Topographic map provided by Controlpoint Surveying, inc on February 23, 2009.
- 16. It shall be the contractor's responsibility to notify the contracting officer for any and all discrepancies found on the drawings or specifications prior to construction. Any discrepancies or questions raised after the bid opening that may result in extra cost will be evaluated by the state. It shall be the contractor's responsibility to submit shop drawings on how they will resolve such discrepancies. General practice of trade shall be used to resolve such discrepancies which must be approved by the contracting officer.
- 17. The bid price for all design items shall be inclusive of all construction materials, labor, equipment, etc. required for those items to be in place and complete to a standard acceptable to the engineer and contracting officer. Minor revisions to the design of the grading, utilities, erosion control, traffic control, roadway, sidewalks, etc. may occur after the bid opening as part of the plan review or coordination process. These minor revisions shall be considered incidental to the various related bid items.
- 18. The Contractor shall notify the Civil Engineering Branch, Department of Planning and Permitting, at 768-8084 to arrange for inspectional services and submit two (2) sets of approved Construction Plans seven (7) days prior to commencement of construction work.
- 19. For projects abutting State Highways' rights-of-way, the owner or his authorized representative shall notify the State Department of Transportation, Highways Division, Oahu District, Drainage Discharge Unit at 831-6793 for an assessment of State Highways permit requirements.
- 20. For Bench Mark, see sheet C-6.

APPROVED:

M. 729 4/21/11
DIRECTOR, DEPARTMENT OF PLANNING & PERMITTING
CITY AND COUNTY OF HONOLULU
(FOR CONSTRUCTION WITHIN CITY R/W ONLY)

Melvin Johnson 4/20/11
CHIEF, CIVIL ENGINEERING BRANCH, DPP DATE



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-0-01-08	2010	5	34



TEMPORARY EROSION CONTROL NOTES:

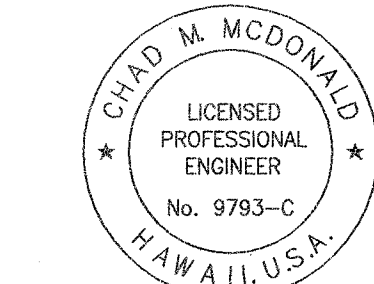
- 1. Follow sequence of operation as recommended on pages 23 and 24 of the "Rules Relating to Soil Erosion Standards and Guidelines", April 1999, of the Department of Planning and Permitting, City & County of Honolulu.
- 2. The contractor shall minimize the amount of land to be exposed at any time.
- 3. Exposed areas that are not at final grade and are expected to be exposed for more than 30 days shall be placed with a vegetative cover or be mulched (at a rate of 45 cubic feet per 1,000 square feet) in order to prevent erosion and silt runoff.
- 4. Temporary erosion controls shall not be removed before permanent erosion controls are in place and established.

TEMPORARY EROSION CONTROL MEASURES:

- 1. Prior to commencement of construction, temporary erosion control measures shall be installed.
- 2. Opening and clearing of land for construction shall be performed incrementally to minimize erosion potential.
- 3. Areas not within the limits of construction work shall remain vegetated during construction operations.
- 4. When cleared or grubbed areas are not to be disturbed for 30 days or more, seed, plant or hydroseed temporary vegetation.

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

4/19/11	Added Sheet for City & County of Honolulu General Notes and Temp. E.C. Notes
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION CITY AND COUNTY OF HONOLULU GENERAL CONSTRUCTION & TEMP. EROSION CONTROL NOTES	
PEARL CITY DRYING BED FACILITY Project No. HWY-0-01-08	
Scale: As Noted	Date: May 2010
SHEET No. C-1A OF 21 SHEETS	



This work was prepared by me or under my supervision

Chad M. McDonald 4/30/2012
MITSUNAGA & ASSOCIATES, INC. EXP. DATE
NOTE: Contractor to check and verify dimensions at job before proceeding with work.

2010/CP-86

E. PERMIT REQUIREMENTS:

1. If a National Pollutant Discharge Elimination System (NPDES) Permit is required for Construction Activities of one acre or more, submit to the Engineer six sets of the Water Pollution and Erosion Control Submittals as detailed in Subsection 209.03 of the specifications.
2. If an NPDES Permit for Construction Dewatering is required, the Contractor shall be responsible to obtain the Permit from the Department of Health, Clean Water Branch.
3. Comply with all applicable State and Federal Permit conditions. Permits may include but are not limited to the following:
 - a. NPDES Permit for Construction Dewatering
 - b. NPDES Permit for Hydrotesting Waters

WATER NOTES

1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the Standard Specifications for Road and Bridge Construction, dated 2005, as amended, of the Hawaii Highways Division, Department of Transportation, and the City and County of Honolulu Board of Water Supply's "Water System Standards", dated 2002, the "Water System External Corrosion Control Standards", volume 3, dated 1991, and all subsequent amendments and additions.
2. The existence and location of underground utilities and structures as shown on the plans are from the latest available data but is not guaranteed as to the accuracy or the encountering of other obstacles during the course of the work. The Contractor shall be responsible and pay for all damages to existing utilities. The Contractor shall not assume that where no utilities are shown, that none exist.
3. The contractor shall be responsible for the protection of all water lines during construction. The Contractor shall be especially careful when excavating behind water lines, tees, and bends whenever there is a possibility of water line movement due to the removal of the supporting earth beyond the existing reaction blocks. The Contractor shall take whatever measure necessary to protect water lines, such as constructing special reaction blocks and/or modifying his construction method.
4. Prior to any excavating, the Contractor shall verify in the field the location of existing water mains and appurtenances.
5. The Contractor shall notify BWS Capital Projects Division, Construction Section in writing one week prior to commencing work on the water system.
6. Re-approval shall be required if this project is not under construction within a period of two years.

SEWER NOTES

1. All sewer construction shall be performed in accordance with the City's standard specifications, Sept. 1984, current City practices and Revised Ordinances of Honolulu, 1990 as amended, and the Design Standards of the Department of Wastewater Management Vol. 1, July 1993.
2. In the event that any change in alignment or grade for the proposed sewers are required due to unforeseen conflict with other utilities, the engineer in charge or the maker of the plans shall be responsible for the required changes which are to be presented to the Department of Planning and Permitting (DPP) for approval.
3. The contractor shall notify the Construction Management Branch, Wastewater Division, DDC, at 768-8788 or 768-8770 to arrange for inspection services and submit four (4) sets of approved construction plans seven (7) days prior to commencement of sewer work. The contractor shall pay for all inspection costs.
4. Crushed rock cradle is permitted where soil is stable. In areas of unstable soil, the maker of the plans and the construction engineer will determine the pipe support required.
5. Trees in the road right-of-way shall be situated in a minimum of 5'-0" from the City's sewer lines.
6. Re-The underground pipes, cables or ductlines known to exist by engineer from his research of records are indicated on the plans. The contractor shall verify the location and depth of the facilities, including and affecting sewer lines, the the presence of the Wastewater inspector and exercise proper care in excavating the area. The contractor shall be responsible and pay for all damaged utilities.
7. Sewer lateral shall be clear of and not conflicting with any other utility. Minimum horizontal and vertical clearances shall be strictly observed and followed.
8. Slope for sewer laterals shall be 1.00% unless otherwise noted.
9. Building plumbing facilities shall be controlled by sewer lateral inverts.
10. The contractor shall be responsible for maintaining continuous sewer service to all affected areas during construction.
11. The consulting engineer shall submit to DPP mylar "as-built" tracings of the construction plans as actually constructed, showing all changes from the original plans.
12. The contractor shall be responsible for any sewage spills caused during construction. The contractor shall notify the State Department of Health and utilize appropriate sampling and analyzing procedures. The contractor shall be responsible for all public notifications and press releases.
13. All sewer pipe joints within easements shall be wrapped with geotextile root barrier.
14. Geotextile fabric to envelope the pipe cradle and select backfill material shall be provided where water or unstable soil conditionals are encountered.
15. Confined Space

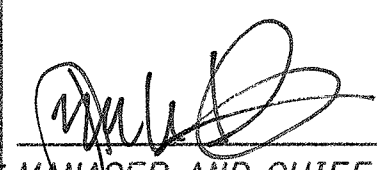
For entry by city personnel, including inspectors, into a permit required confined space as defined in 29 CFR part 1910.146(b), the contractor shall be responsible for providing:




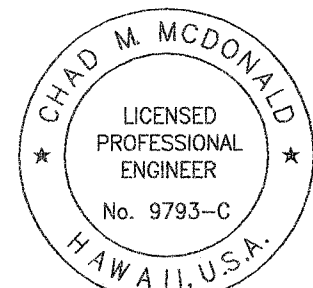
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-0-01-08	2010	5	34

SEWER NOTES CONTINUED

1. All safety equipment required by the confined space regulations applicable to all parties other than the construction industry, to include, but not limited to the following:
 - a. Full body harnesses for up to two personnel.
 - b. Lifeline and associated clips.
 - c. Ingress/Egress and fall protection equipment.
 - d. Two-way radios (walkie-talkies) if out of line-of sight.
 - e. Emergency (escape) respirator (10 minute duration).
 - f. Cellular telephone to call for emergency assistance.
 - g. Continuous gas detector (calibrated) to measure oxygen, hydrogen sulfide, carbon monoxide and flammables (capable of monitoring at a distance at least 20-feet away).
 - h. Personnel multi-gas detector to be carried by inspector.
16. When connecting to a live sewer line, the contractor shall abide by all conditions that the State Department of Health sets forth to mitigate any wastewater spill that may occur. The contractor shall inform the City Inspector five (5) working days prior to the actual connection. The contractor shall be responsible for any fines and penalties due to any spill resulting from the connection.
17. If contractor encounters flow monitoring devices such as special sewer manhole cover embedded with solar panels; notify C & C of Honolulu, ENV-CSM at 768-7272 to coordinate temporary removal.
18. Contractor shall maintain visibility and maintenance access to live sewer manhole locations at all times including during non-work hours and paving operations.

APPROVED:	
	4-21-11
MANAGER AND CHIEF ENGINEER, BWS (For Work Affecting BWS Facilities in City/State R/W and BWS Easements only)	DATE
Dennis M. Nishimura	5/2/11
CHIEF, WASTEWATER BRANCH, DPP or CITY & COUNTY OF HONOLULU	DATE

4/19/11	 Added Sewer Notes
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION WATER POLLUTION AND EROSION CONTROL NOTES - 2 & SEWER AND WATER NOTES PEARL CITY DRYING BED FACILITY Project No. HWY-0-01-08 Scale: As Noted Date: May 2010 SHEET No. C-3 OF 21 SHEETS	



This work was prepared by me or under my supervision

Chad M. McDonald
MITSUNAGA & ASSOCIATES, INC. EXP. DATE 4/30/2012
NOTE: Contractor to check and verify dimensions at job before proceeding with work.

SURVEY PLOTTED BY	DATE
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DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-0-01-08	2010	C.O. ADD.6	36

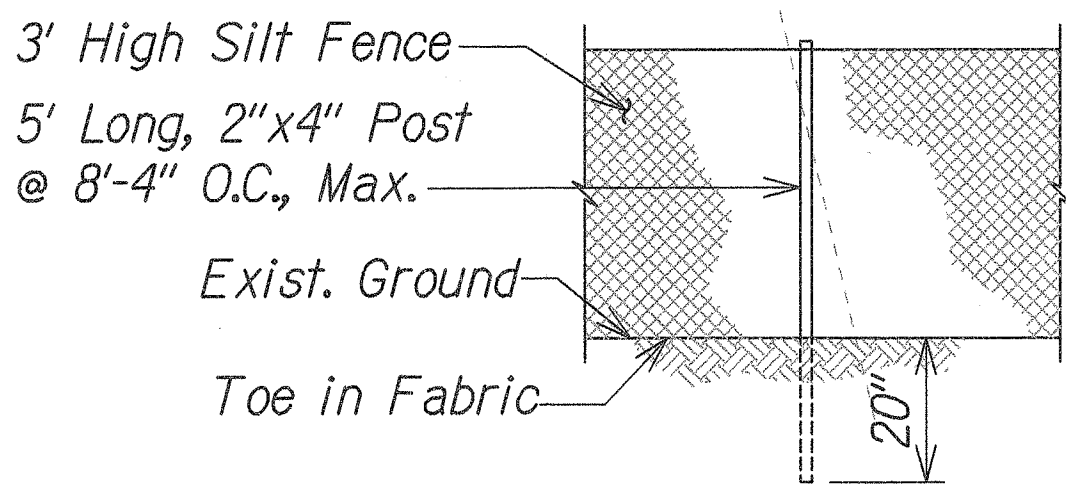
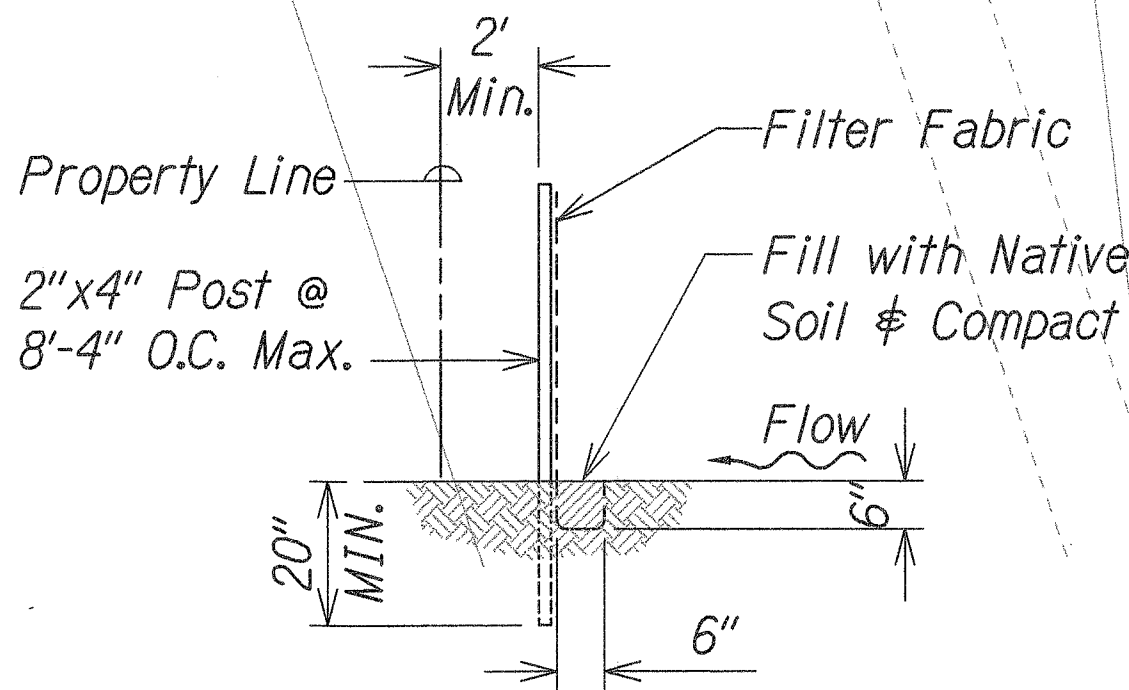
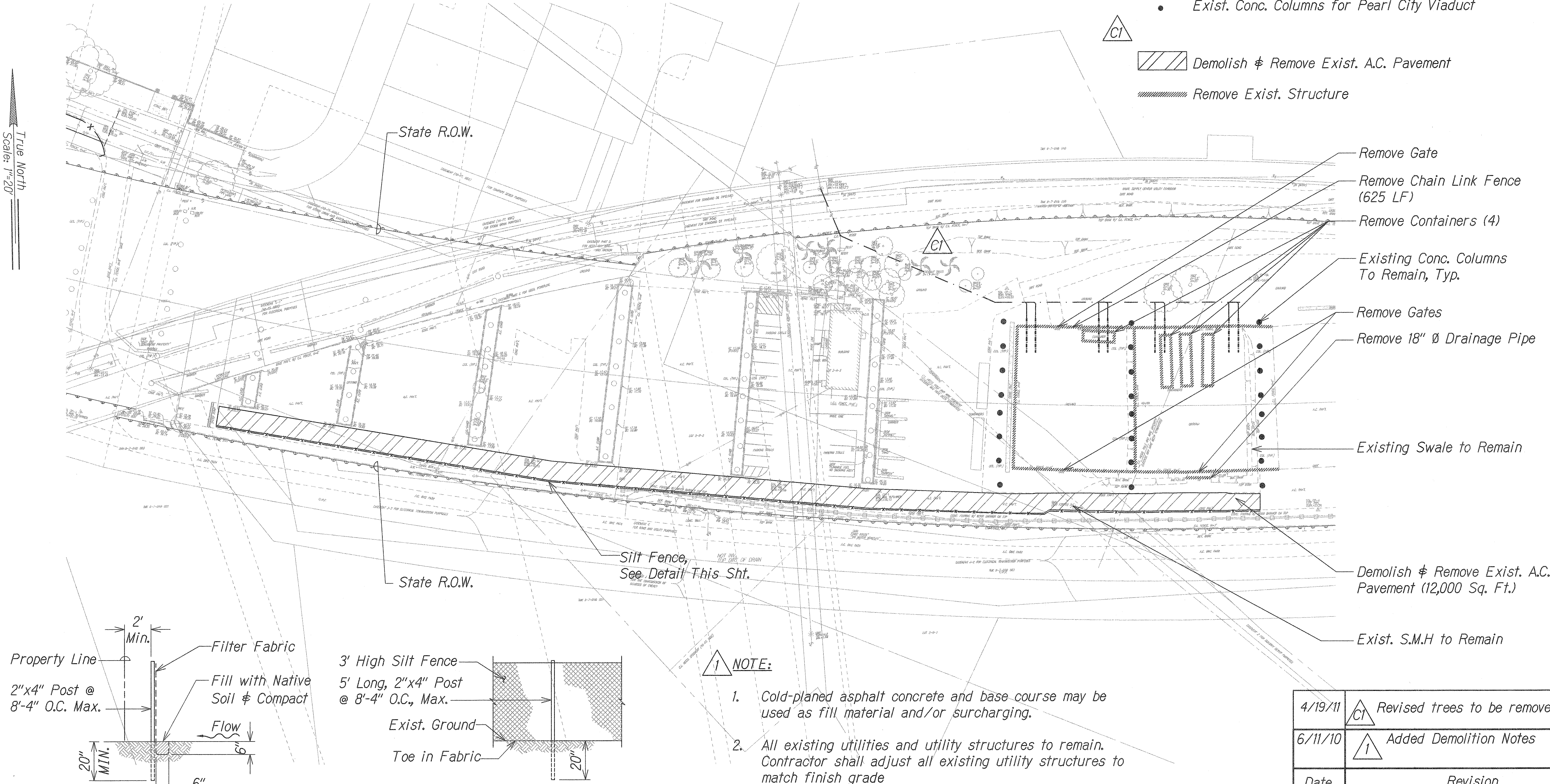
Legend

• Exist. Conc. Columns for Pearl City Viaduct



Demolish & Remove Exist. A.C. Pavement

Remove Exist. Structure



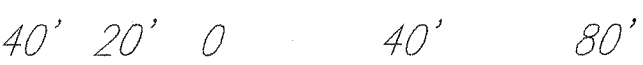
NOTE:

1. Cold-planed asphalt concrete and base course may be used as fill material and/or surcharging.
2. All existing utilities and utility structures to remain. Contractor shall adjust all existing utility structures to match finish grade

SILT FENCE DETAIL

Not to scale

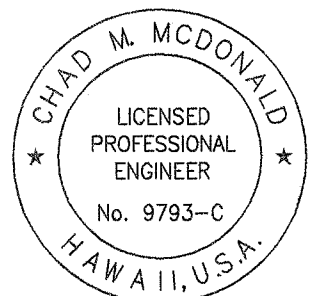
GRAPHIC SCALE



SCALE: 1" = 40'

DEMOLITION PLAN

Scale: 1" = 40'



This work was prepared by me or under my supervision

Chad M. McDonald
MITSUNAGA & ASSOCIATES, INC. EXP. DATE
4/30/2012

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

4/19/11	Revised trees to be removed
6/11/10	Added Demolition Notes
Date	Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

PEARL CITY DRYING BED FACILITY

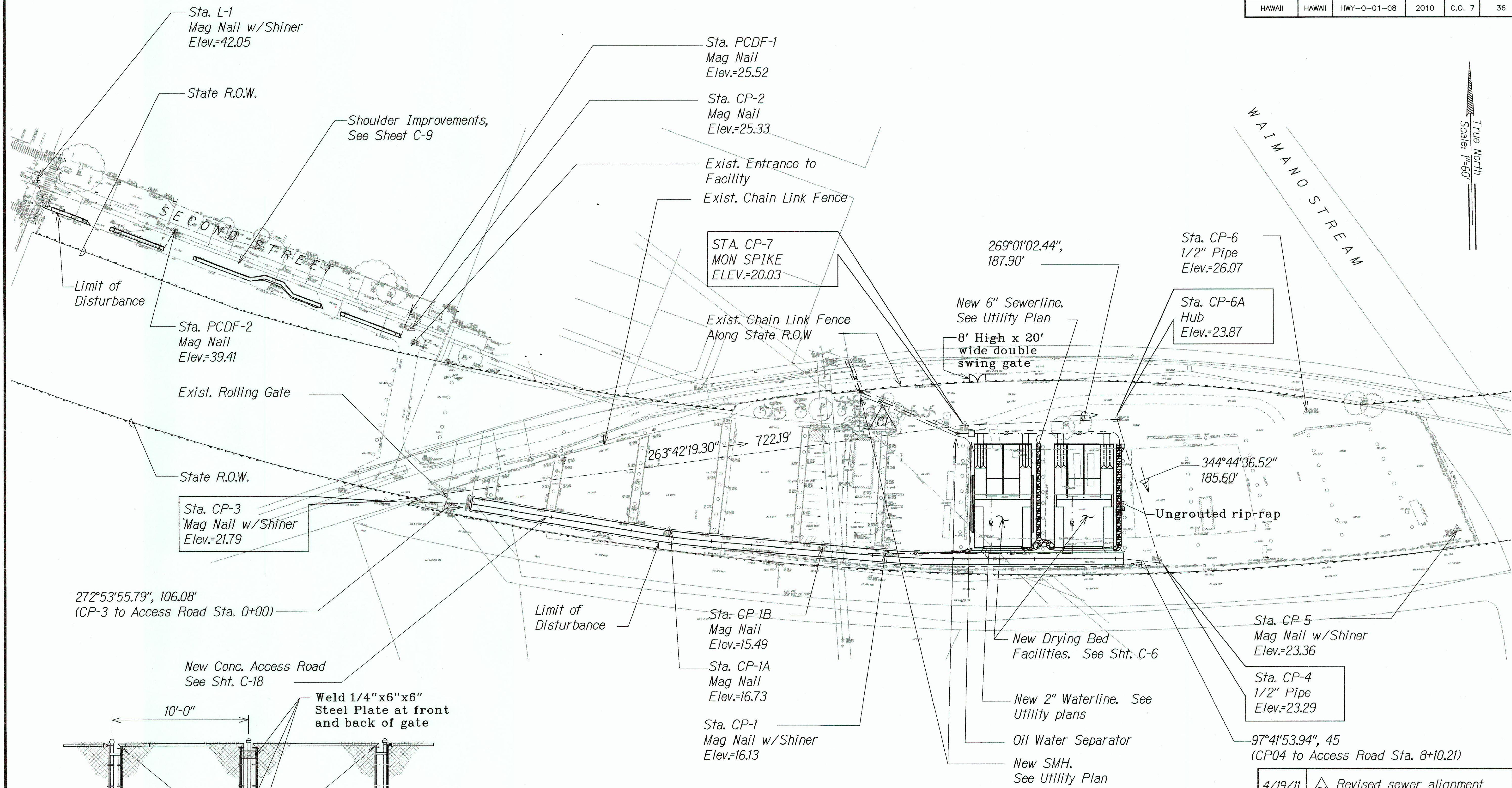
Project No. HWY-0-01-08

Scale: As Noted Date: May 2010

SHEET No. C-4 OF 21 SHEETS

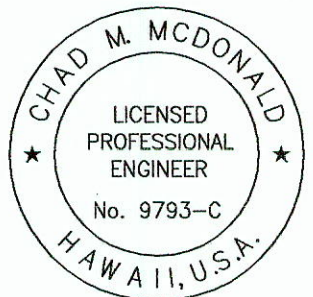
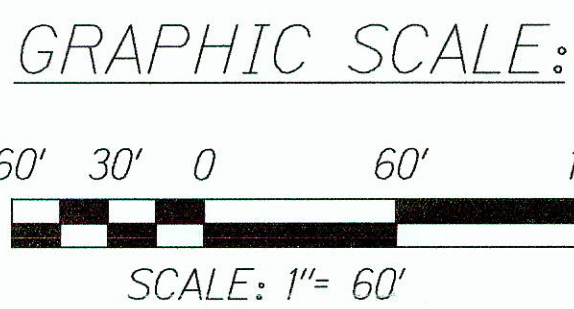
C.O. ADD. 6

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-0-01-08	2010	C.O. 7	36



GENERAL SITE PLAN Scale: 1" = 60'

LEGEND FOR AS-BUILT POSTING	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Roadway Text for as-built posting



This work was prepared by me or under my supervision

4/30/2014
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

4/19/11 Revised sewer alignment

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL SITE PLAN

PEARL CITY DRYING BED FACILITY

Project No. HWY-0-01-08

Scale: As Noted Date: May 2010

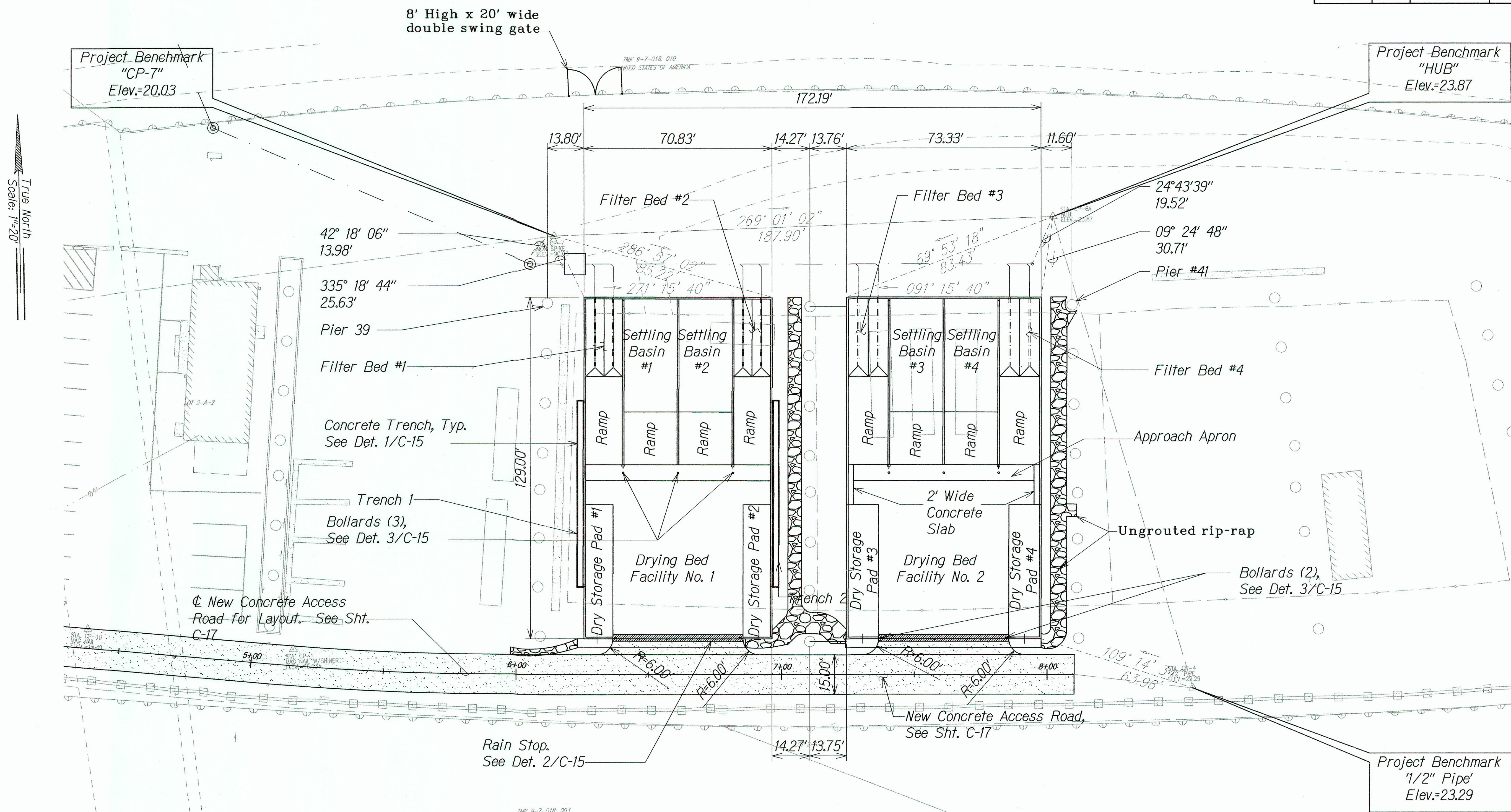
SHEET No. **C-5** OF **21** SHEETS

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ORIGINAL PLAN	
NOTE BOOK	
No.	

8' High x 20' Wide Double Swing Gate Detail
Not to scale

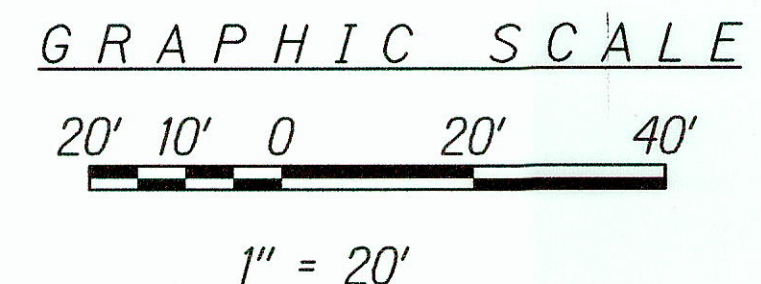
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-0-01-08	2010	8	36



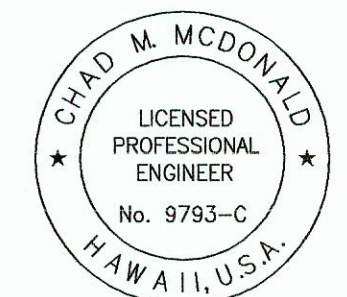
Notes:

- For Drying Bed Facility No. 1 Layout, See Sht. C-13.
For Drying Bed Facility No. 2 Layout, See Sht. C-14.
- For Drying Bed Facility Contraction/Construction layout, see Structural drawings.



LEGEND FOR AS-BUILT POSTING

	Squiggly line for as-built deletion
	Double line for as-built deletion
	Roadway Text for as-built posting



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4/30/2014
MITSUNAGA & ASSOCIATES, INC. EXP. DATE
NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SITE LAYOUT PLAN

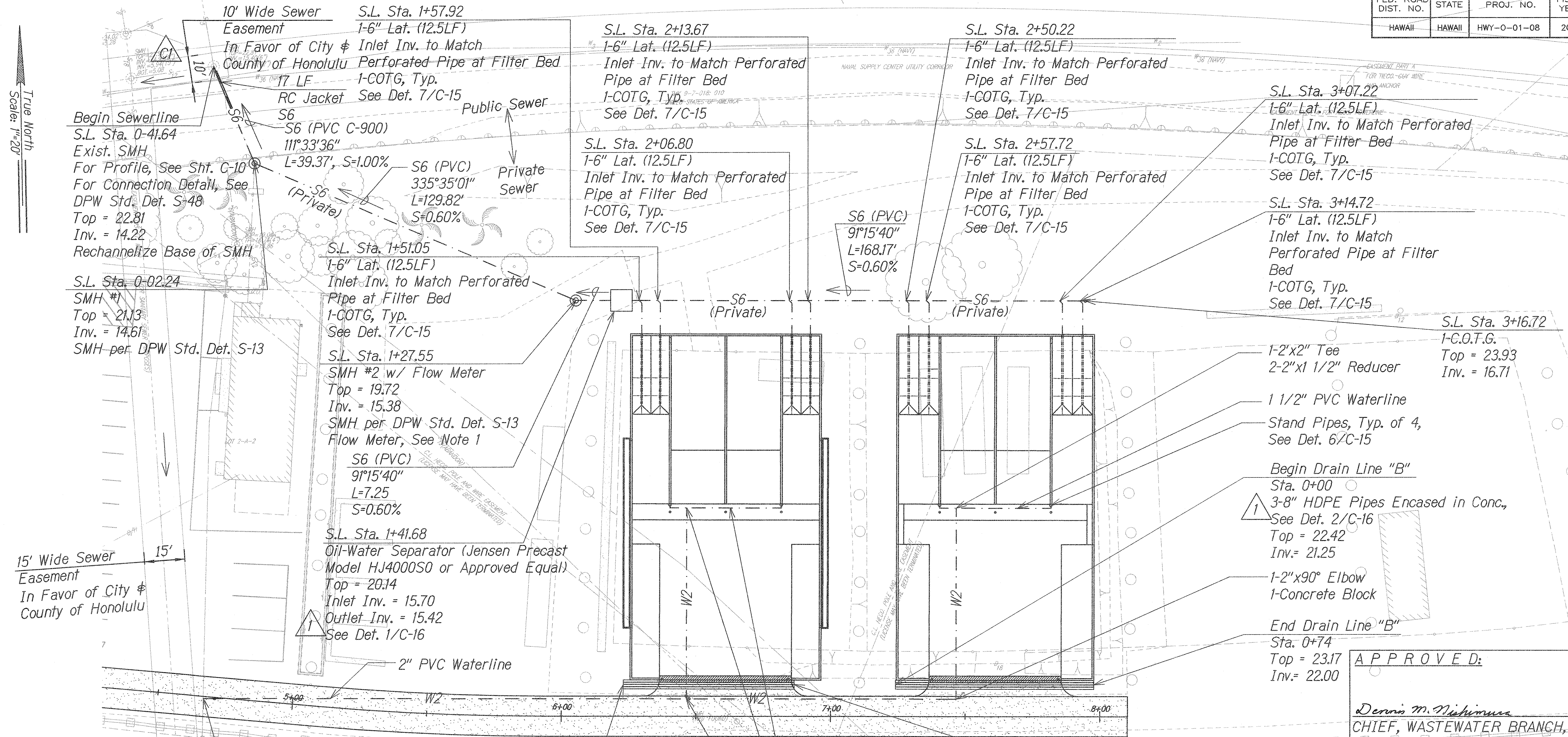
PEARL CITY DRYING BED FACILITY
Project No. HWY-0-01-08

Scale: As Noted Date: May 2010

SHEET No. **C-6** OF **21** SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-0-01-08	2010	ADD.10	34



APPROVED:

Dennis M. Nishimura 5/2/11
 CHIEF, WASTEWATER BRANCH, DPP DATE
 CITY & COUNTY OF HONOLULU

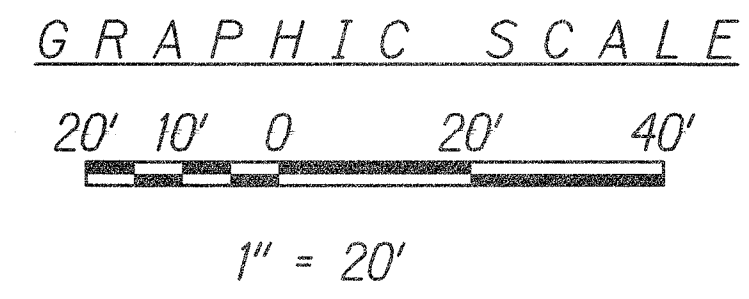
4/19/11	Added Premise ID and Meter Number. Revised sewer connection & added Note 4. Revised Drain Line "A"
6/11/10	Revised Note 1, Revised Drain Line & Oil-Separator References.

Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION UTILITIES PLAN PEARL CITY DRYING BED FACILITY Project No. HWY-0-01-08 Scale: As Noted Date: May 2010 SHEET No. C-8 OF 21 SHEETS C.O. ADD. 10	

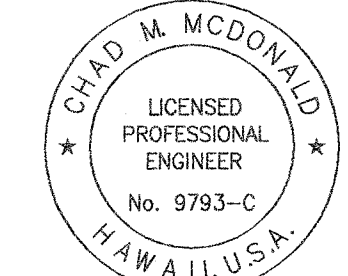
- Note:**
- The flow meter shall be an Eastech Cartridge Meter, Model Accuron 7100 or approved equal. See Sewer Specifications. Excavation for new sewer manhole to be similar to excavation for oil/water separator, See Sheet C-16 for detail.
 - Contractor to calibrate Flow Meter per manufacturer's requirements prior to project completion.
 - Contractor to coordinate the location of the flow meter data logger with the Engineer.
 - Contractor shall tone area to locate the Navy water and fuel lines prior to any excavation work. If Navy waterline is exposed during excavation work, contractor shall contact NAVFAC Hawaii Water Utilities at 473-0037 prior to placement of any backfill.

Begin New 2" Waterline
 Conn. to Exist. W2
 1-2"x2" Tee
 1-2" Gate Valve
 1-Valve Box
 Inv. = 12.20
 Premise ID - 1002085
 M/N - 02601224

CI



UTILITIES PLAN CI
 Scale: 1" = 20'

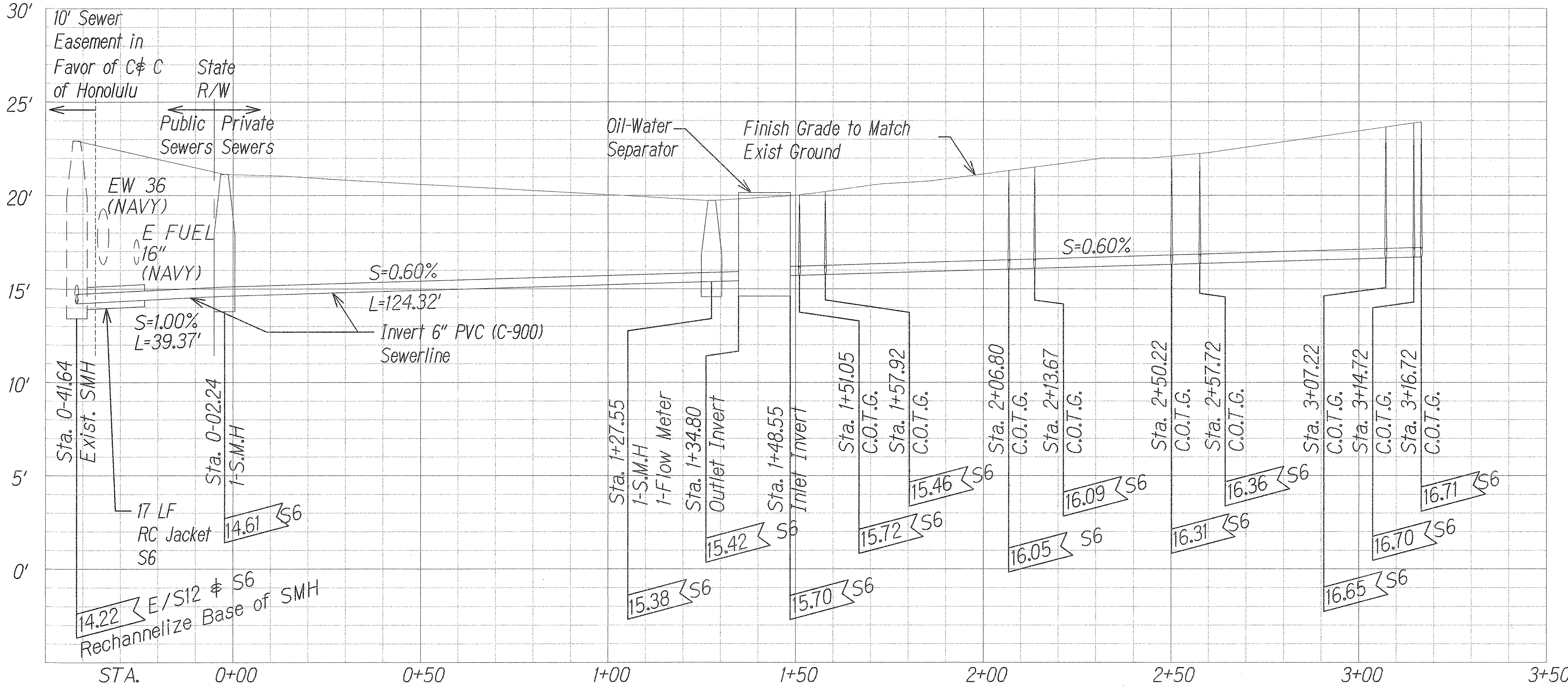


This work was prepared by me or under my supervision

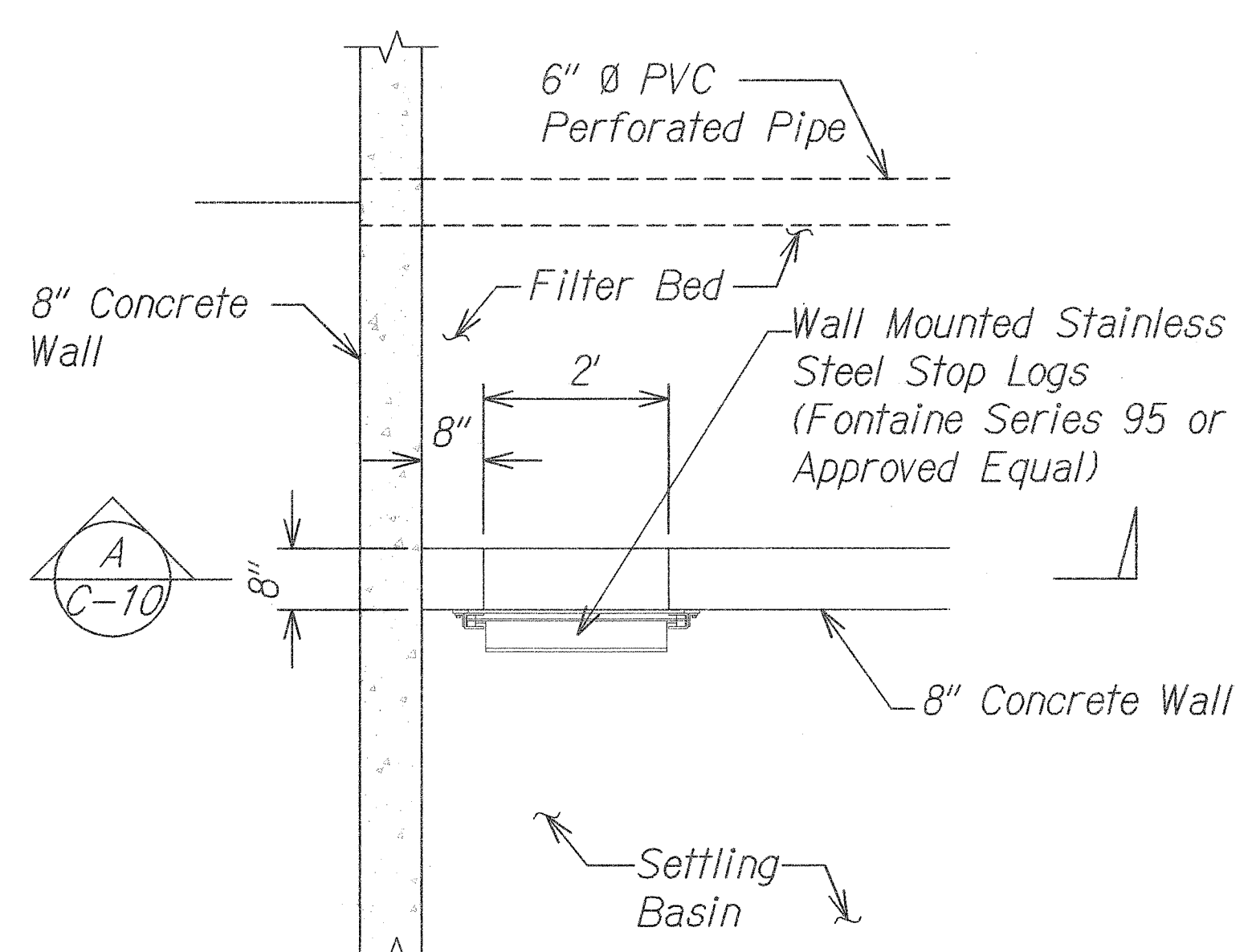
Chad M. McDonald
 4/30/2012
 MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

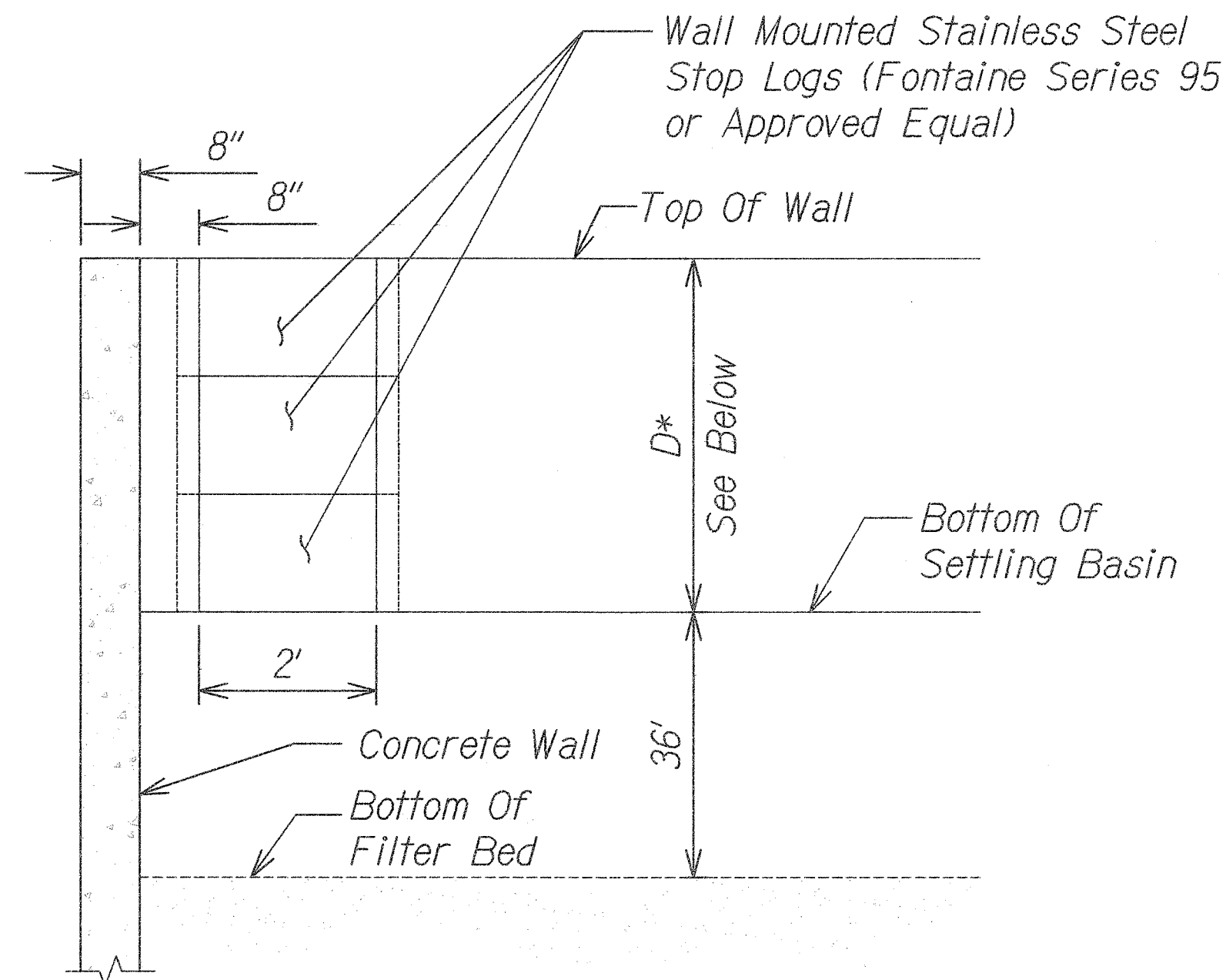
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-0-01-08	2010	ADD.12	34



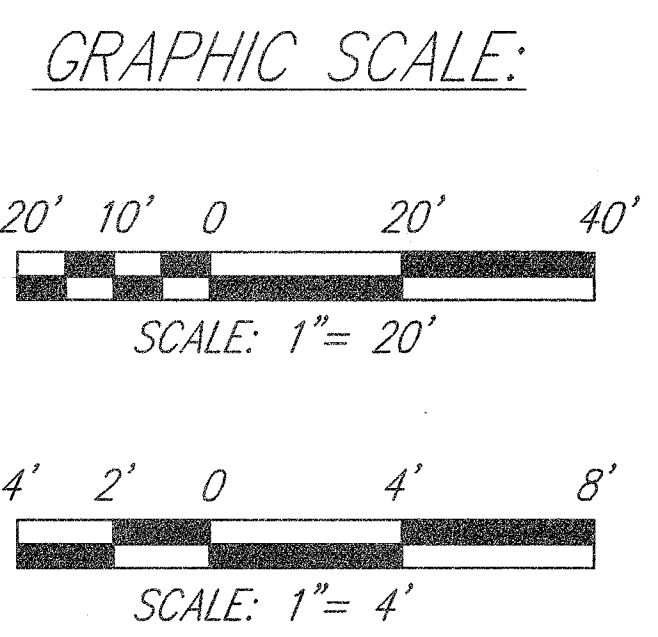
SEWERLINE PROFILE
Scale: Horiz. 1" = 20'
Vert. 1" = 4'



STOP LOGS ENLARGED PLAN
Scale: 1/2" = 1'-0"



SECTION
Not to Scale



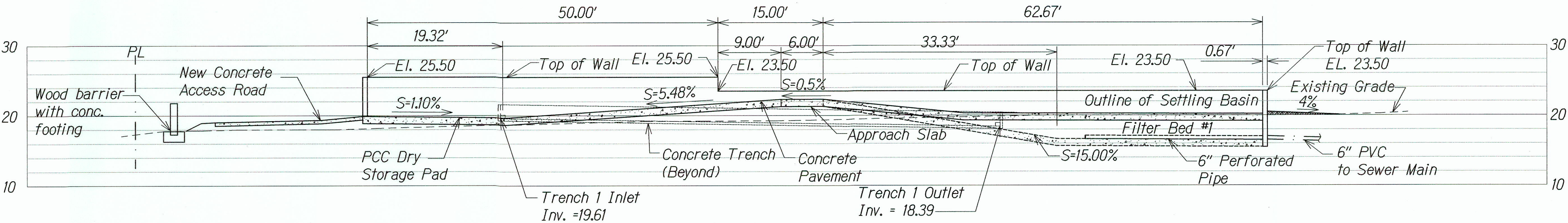
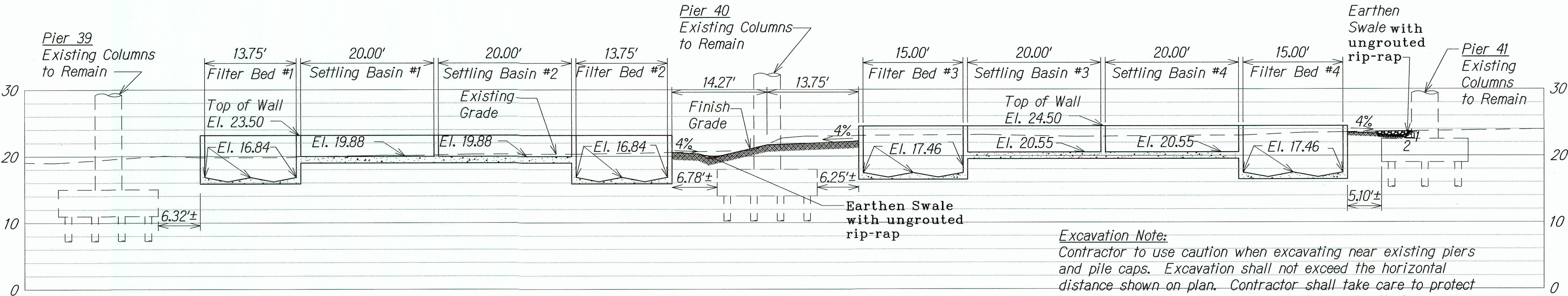
APPROVED:
Dennis M. Nishimura 5/2/11
CHIEF, WASTEWATER BRANCH, DPP
CITY & COUNTY OF HONOLULU

Date	Revision
4/19/11	Revised sewer profile for updated point of connection
6/11/10	Added Stop Log Details

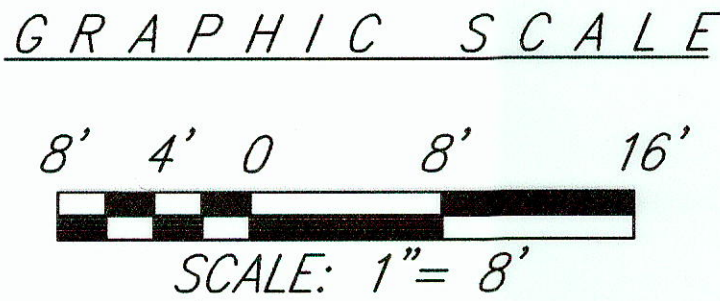
CHAD M. McDONALD
LICENSED PROFESSIONAL ENGINEER
No. 9793-C
HAWAII, U.S.A.
This work was prepared by me or under my supervision
4/30/2012
MITSUNAGA & ASSOCIATES, INC. EXP. DATE
NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SEWER LINE PROFILE
PEARL CITY DRYING BED FACILITY
Project No. HWY-0-01-08
Scale: As Noted Date: May 2010
SHEET No. C-10 OF 21 SHEETS

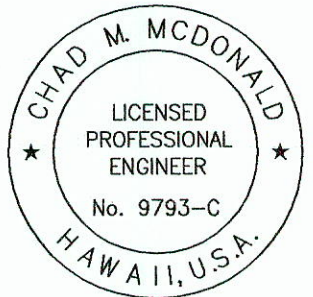
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-0-01-08	2010	C.O. 13	36



SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	



LEGEND FOR AS-BUILT POSTING	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Roadway Text for as-built posting



This work was prepared by me or under my supervision

4/30/2014
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

6/22/11 Revised sections for raised drying bed facilities

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

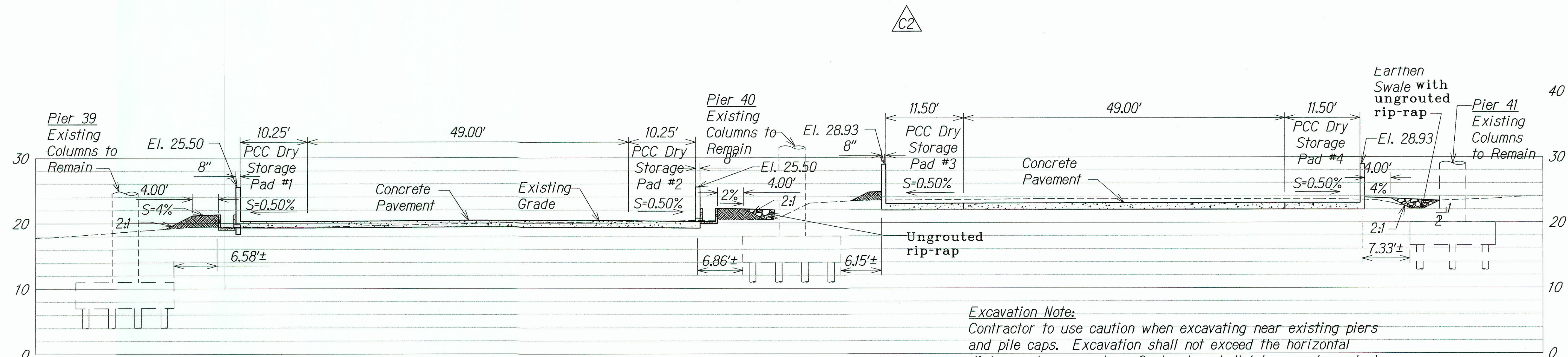
SITE SECTIONS -1

PEARL CITY DRYING BED FACILITY
Project No. HWY-0-01-08
Scale: As Noted Date: May 2010

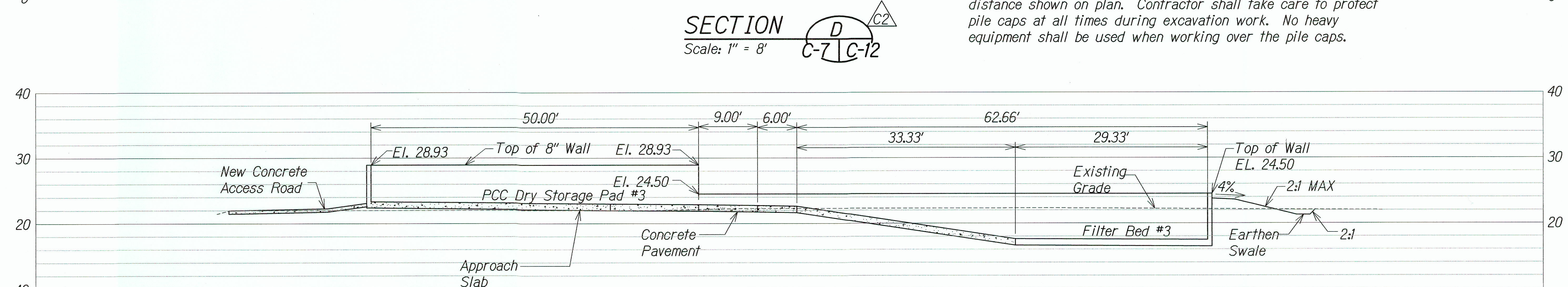
SHEET No. **C-11** OF **21** SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-0-01-08	2010	C.O. 14	36

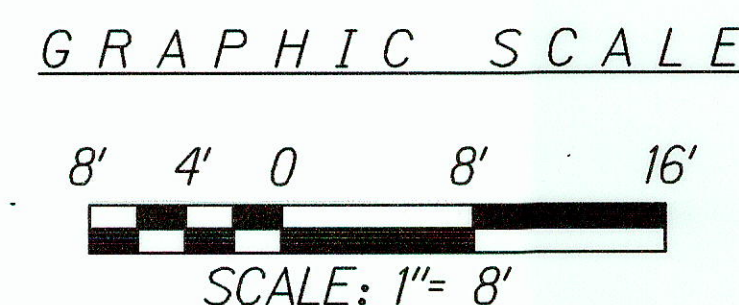


Excavation Note:
Contractor to use caution when excavating near existing piers and pile caps. Excavation shall not exceed the horizontal distance shown on plan. Contractor shall take care to protect pile caps at all times during excavation work. No heavy equipment shall be used when working over the pile caps.

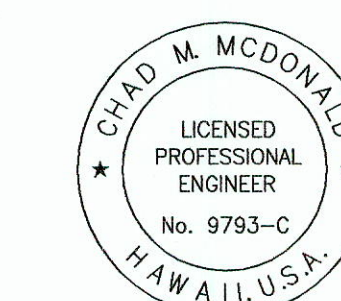


SECTION C-2
Scale: 1" = 8'

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	NOTE BOOK
No.	



LEGEND FOR AS-BUILT POSTING	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Roadway Text for as-built posting



This work was prepared by me or under my supervision

4/30/2014
MITSUNAGA & ASSOCIATES, INC. EXP. DATE
NOTE: Contractor to check and verify dimensions at job before proceeding with work.

6/22/11

Revised sections for raised drying bed facilities,
Removed Section C

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

SITE SECTIONS -2

PEARL CITY DRYING BED FACILITY

Project No. HWY-0-01-08

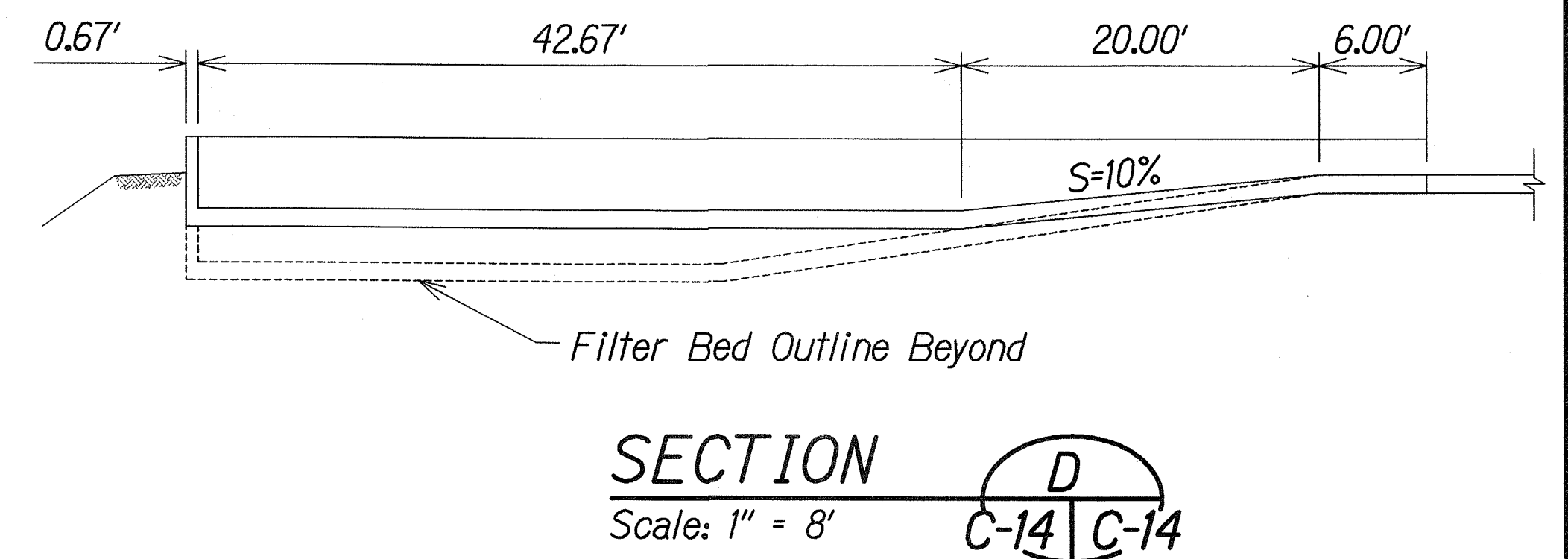
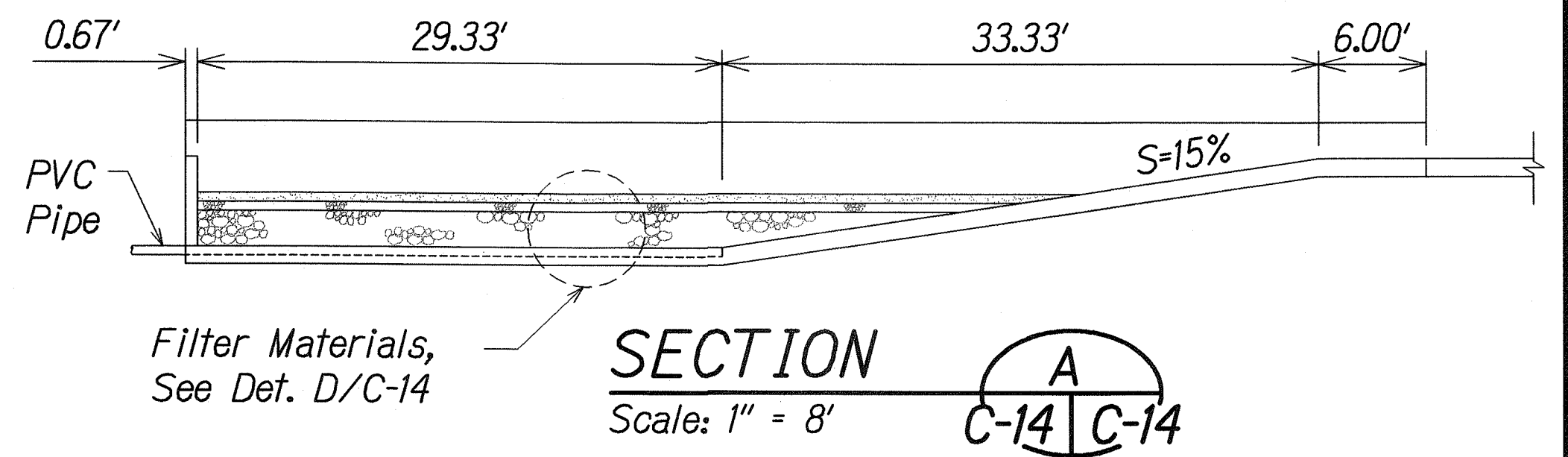
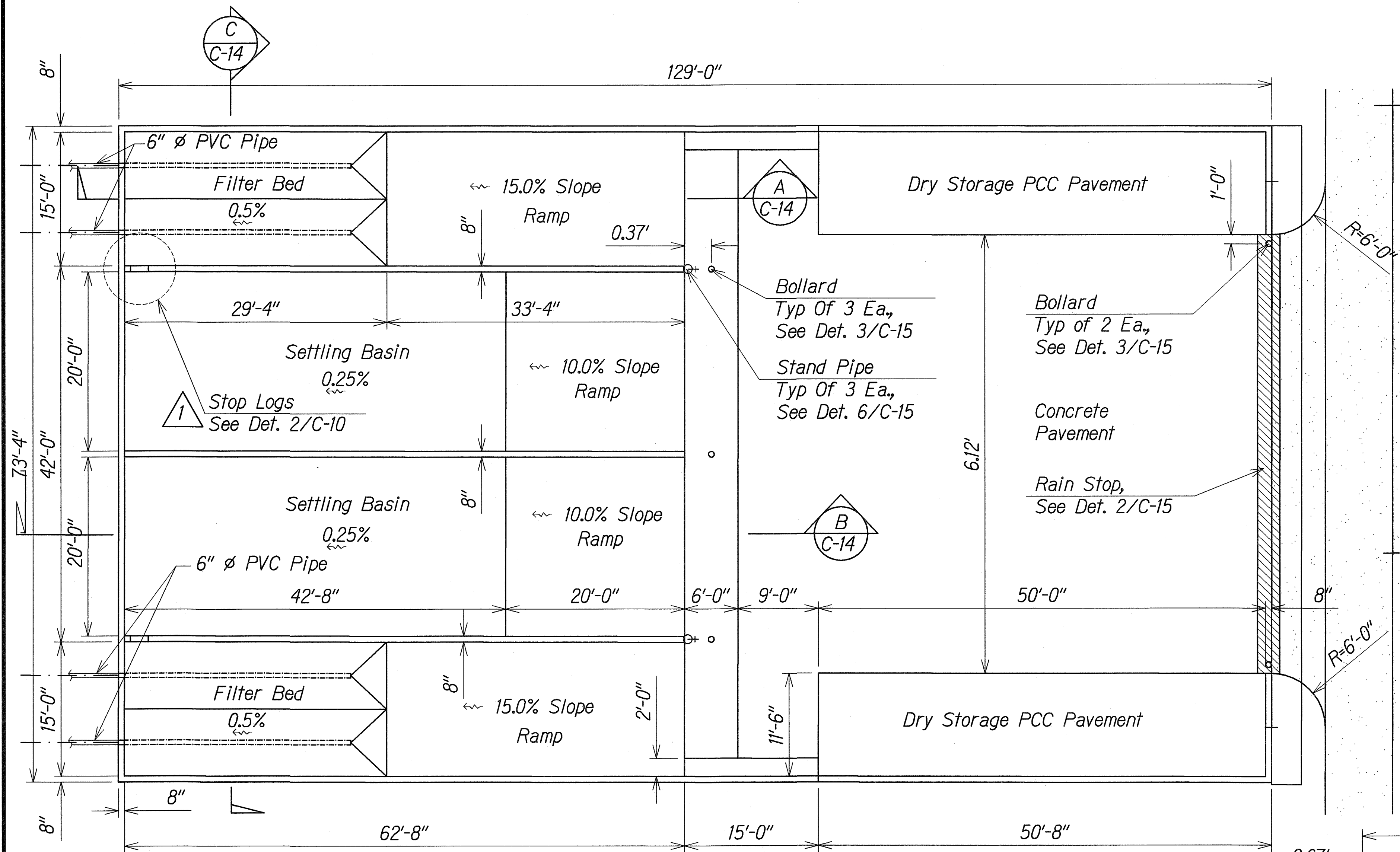
Scale: As Noted Date: May 2010

SHEET No. C-12 OF 21 SHEETS

"AS-BUILT"

C.O. 14

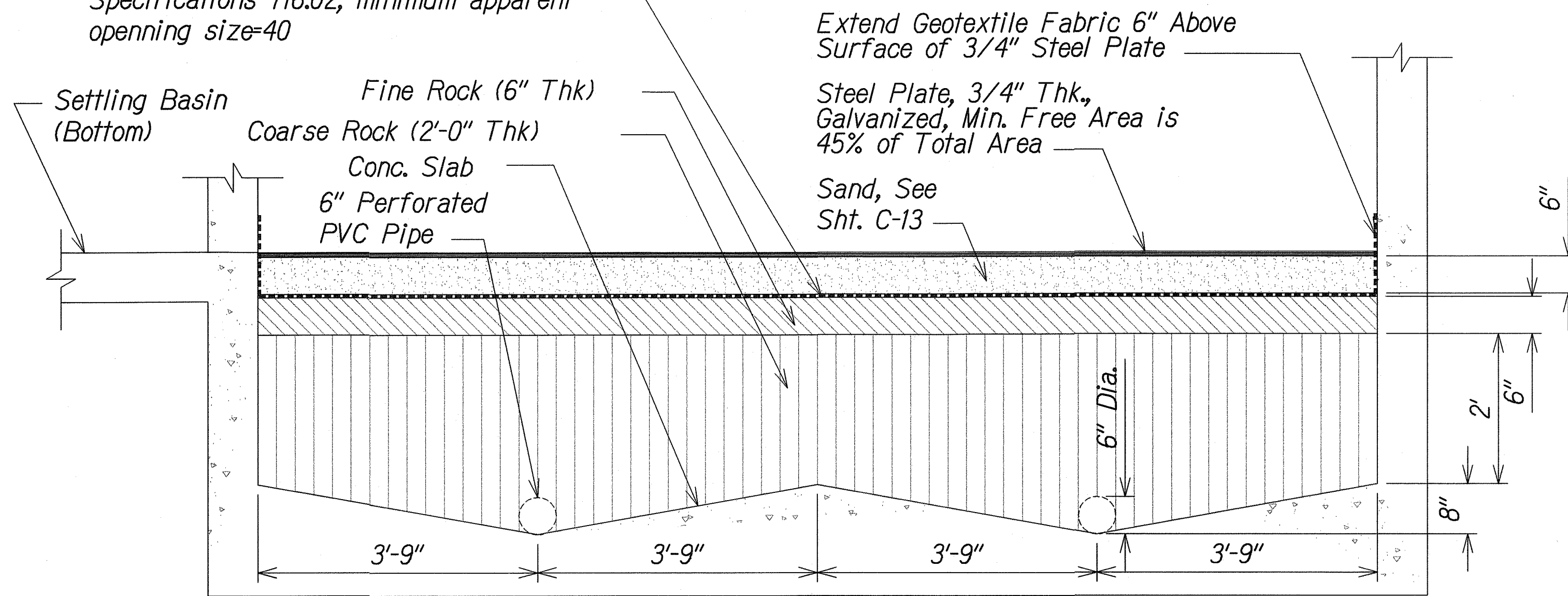
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-0-01-08	2010	ADD.16	34



Non-woven Geotextile in compliance w/ DOT Highway Specifications 716.02, minimum apparent opening size=40

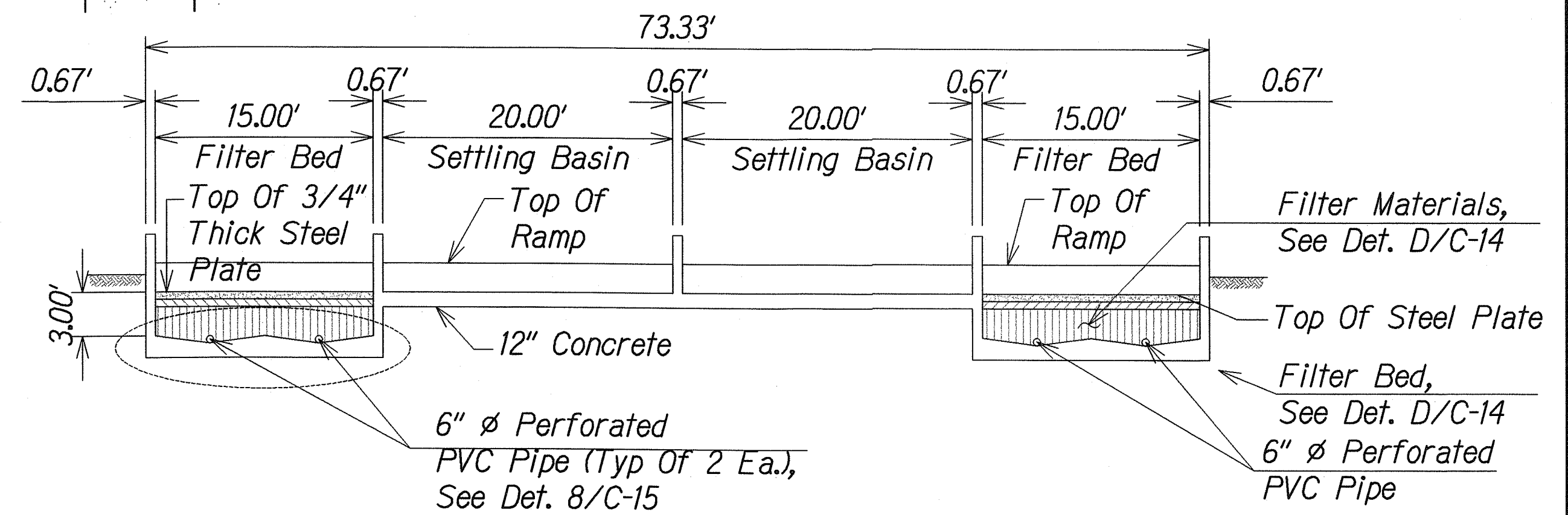
DRYING BED FACILITY NO. 2 LAYOUT

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



FILTER BED DETAIL

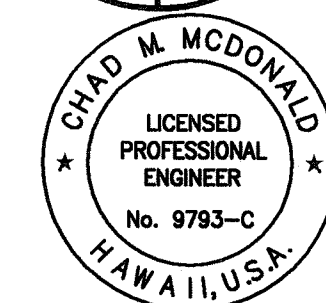
Scale: 1/8" = 1'-0"



SECTION C

Scale: 1" = 8'

C-14 C-14



This work was prepared by me or under my supervision

Chad M. McDonald
4/30/2012
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

6/11/10	1	Revised Stop Log Det. Reference & Filter Bed Det.
Date		Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRYING BED LAYOUT-2

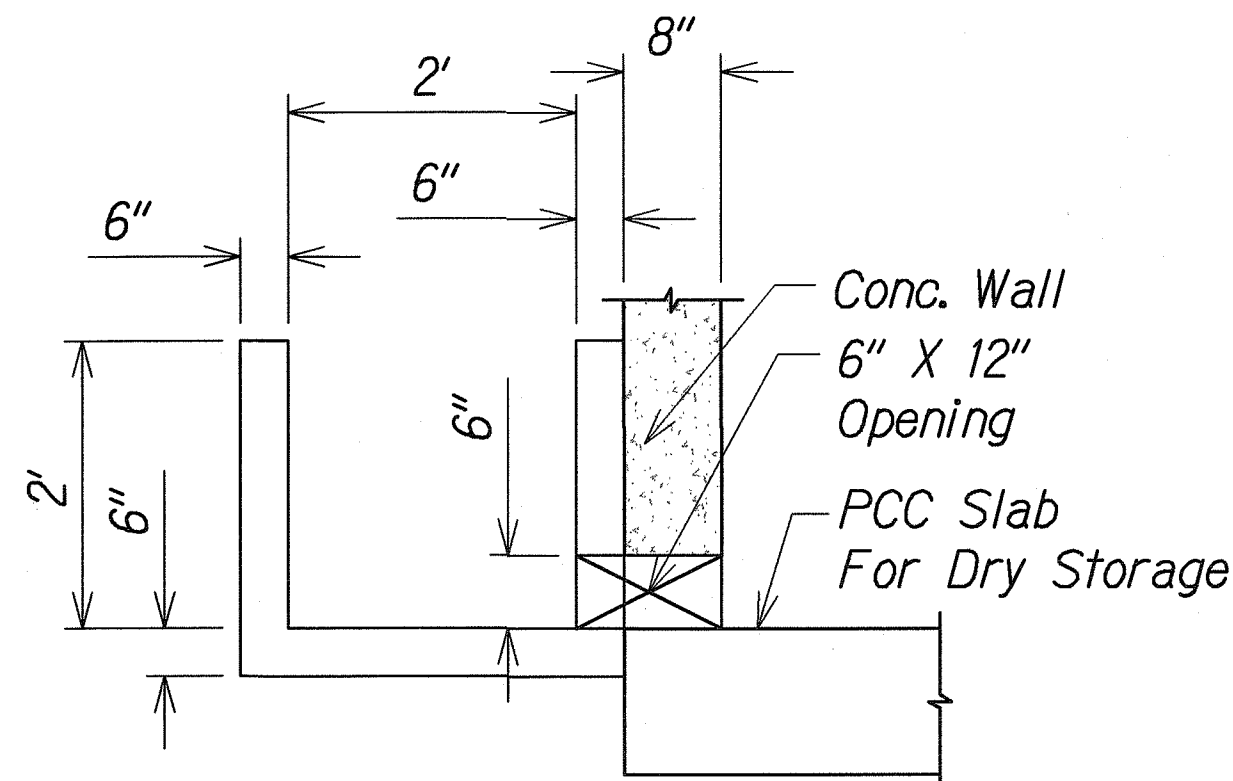
PEARL CITY DRYING BED FACILITY

Project No. HWY-0-01-08

Scale: As Noted Date: May 2010

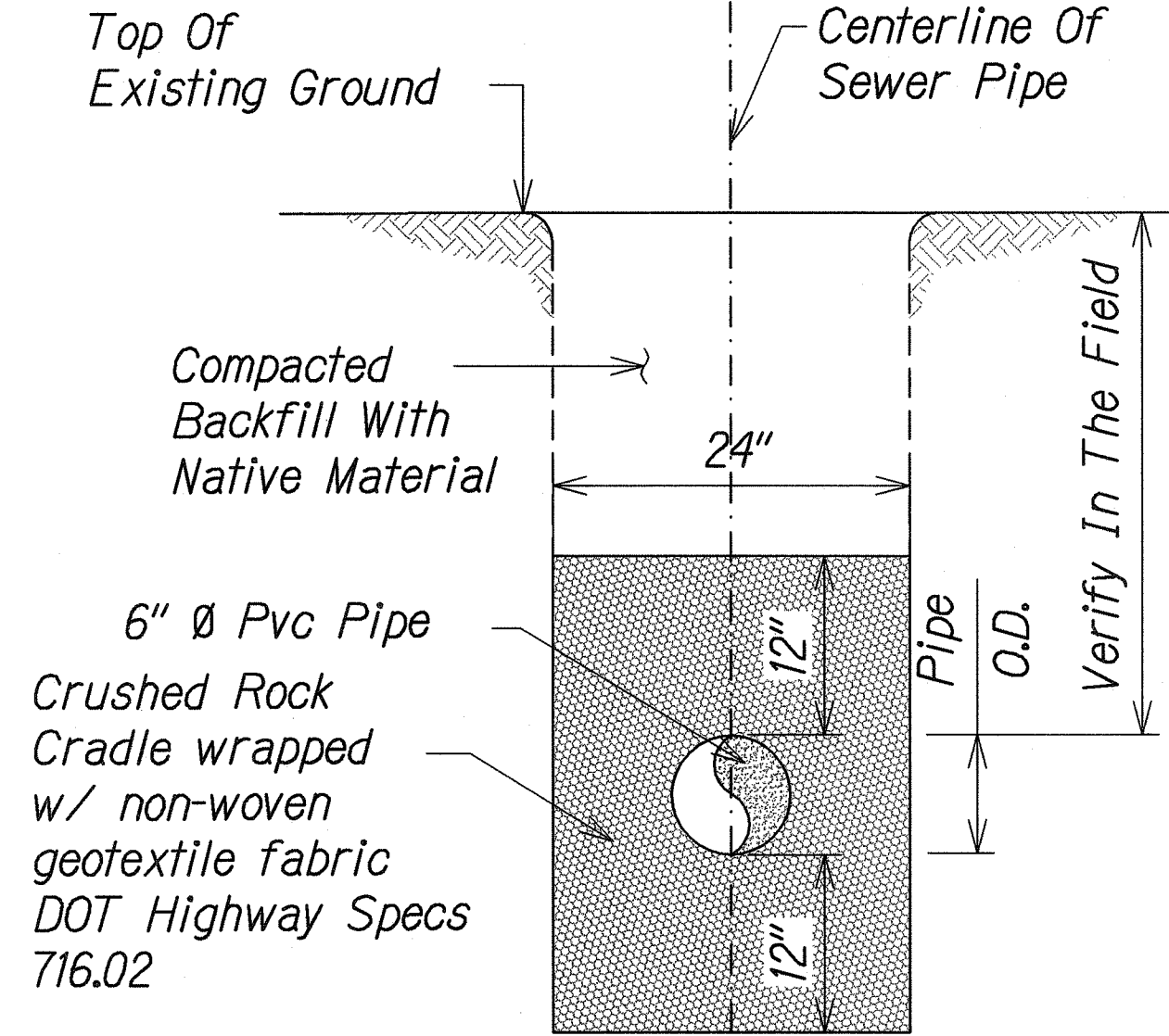
SHEET No. C-14 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-0-01-08	2010	ADD.17	34

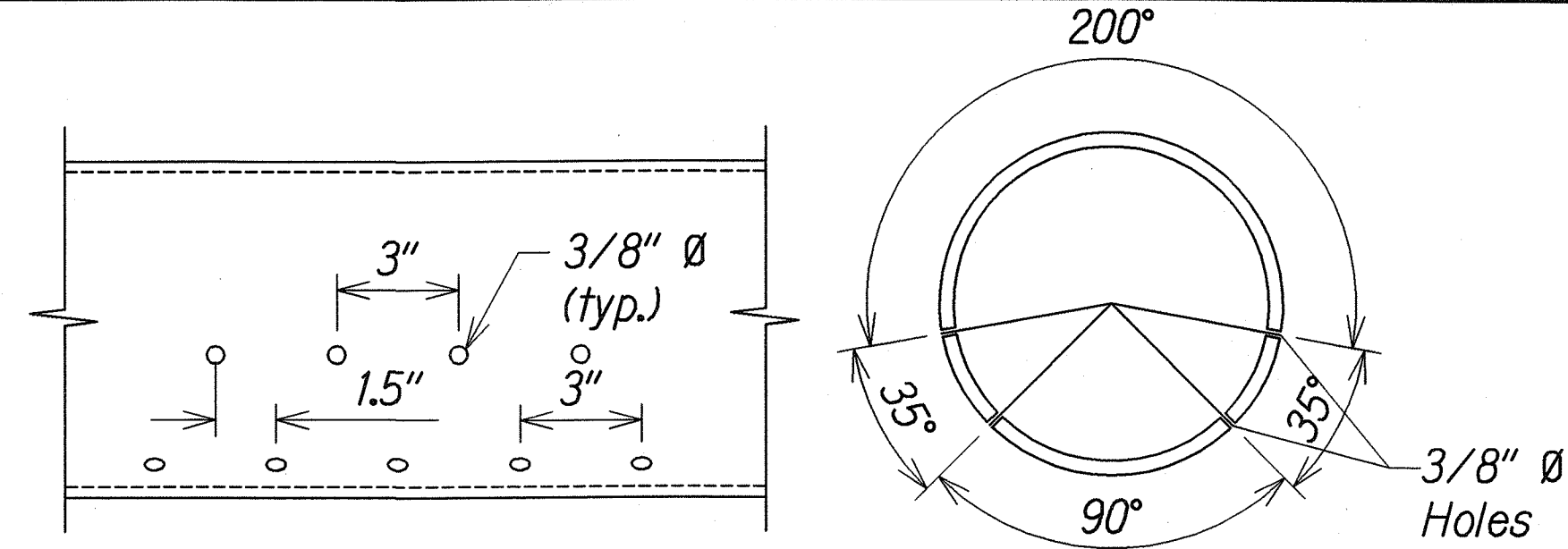


Note: See Structural Drawings for Reinforcing

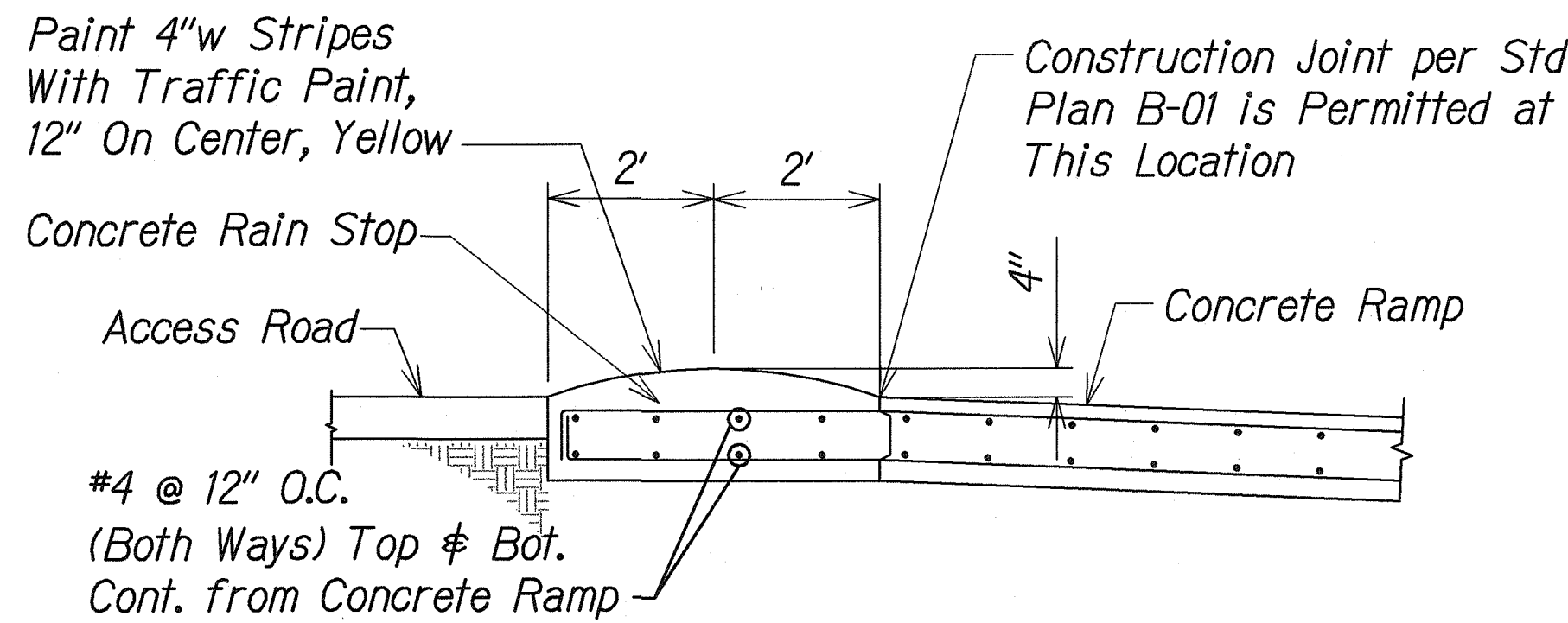
CONC. TRENCH DETAIL 1
Not To Scale C-6 | C-15



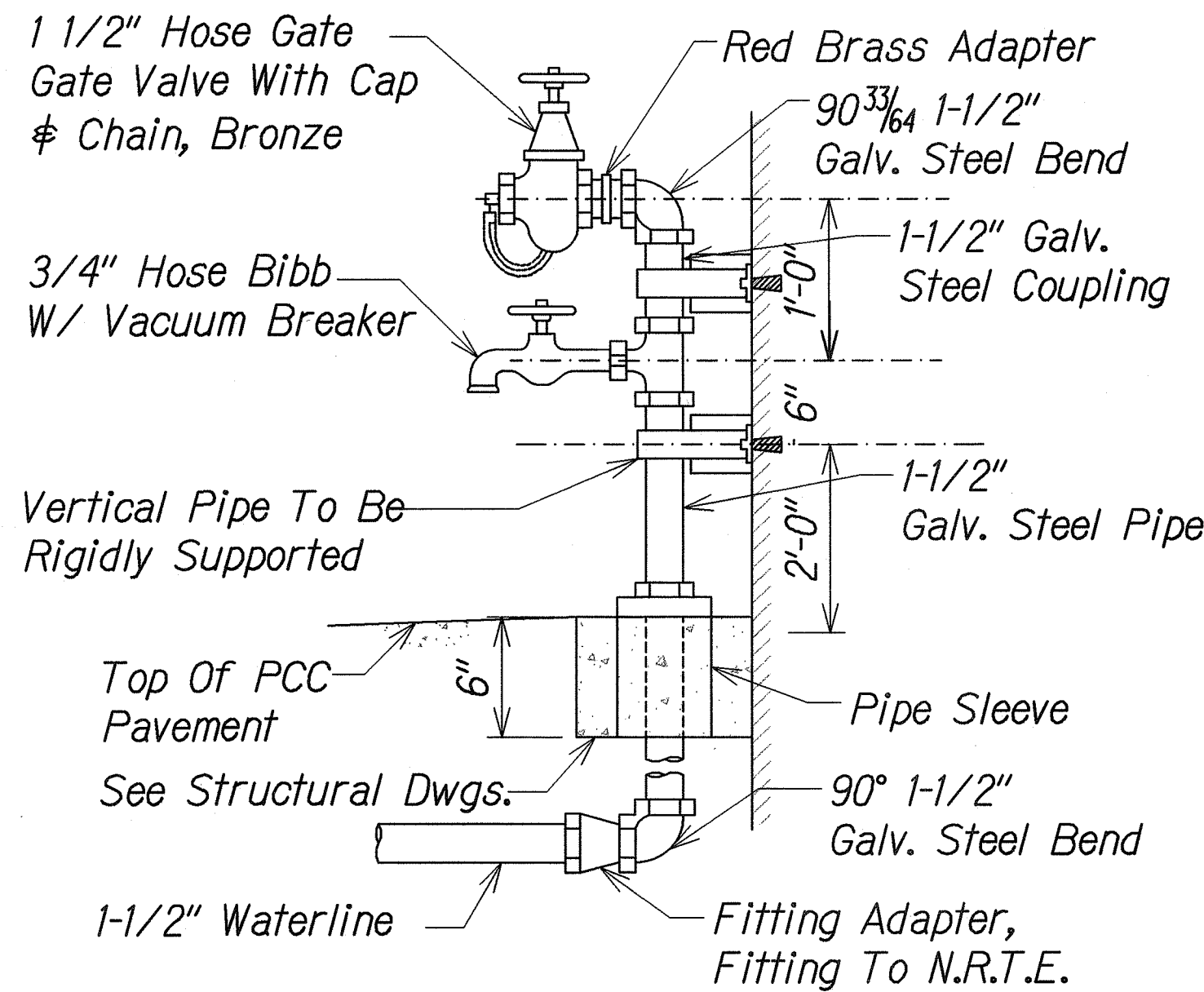
SEWER PIPE TRENCH DETAIL 5
Not To Scale C-8 | C-15



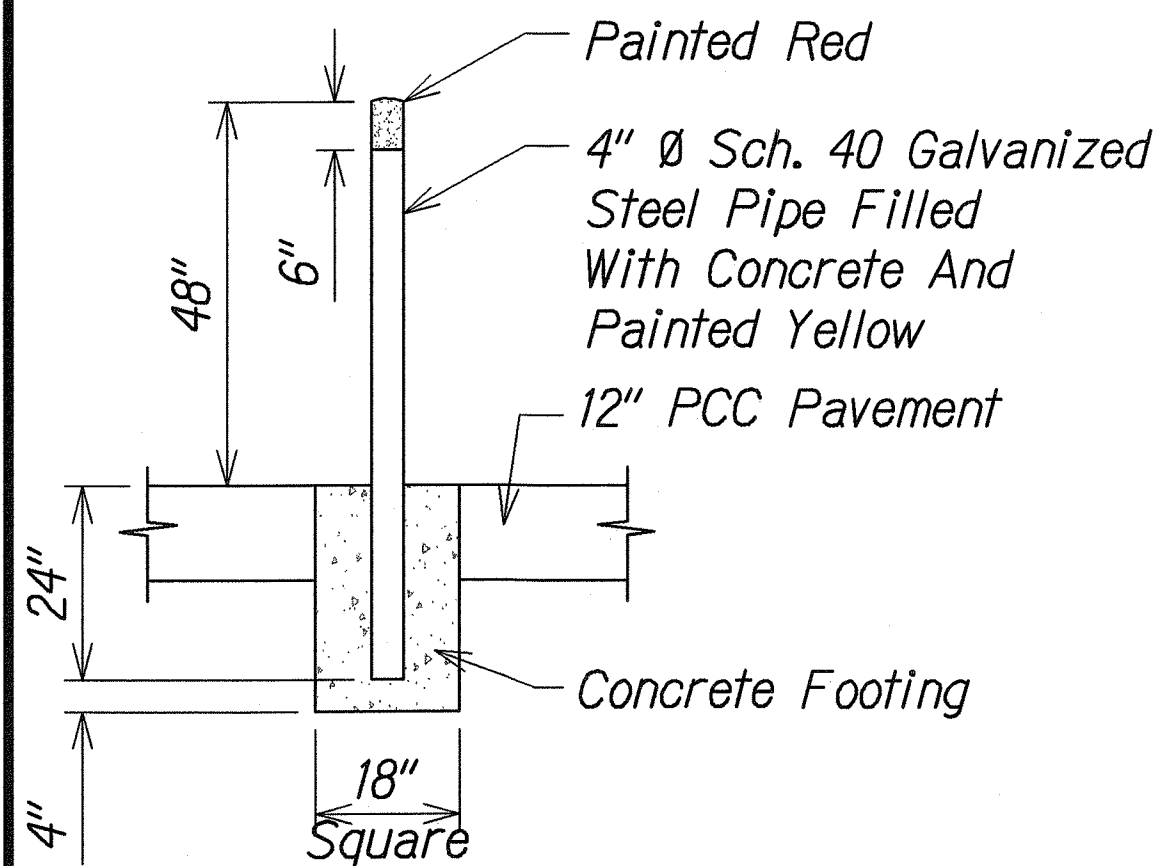
PREFORMED PIPE DETAIL 8
Scale: 1/4" = 1'-0" C-13, C-14 | C-15



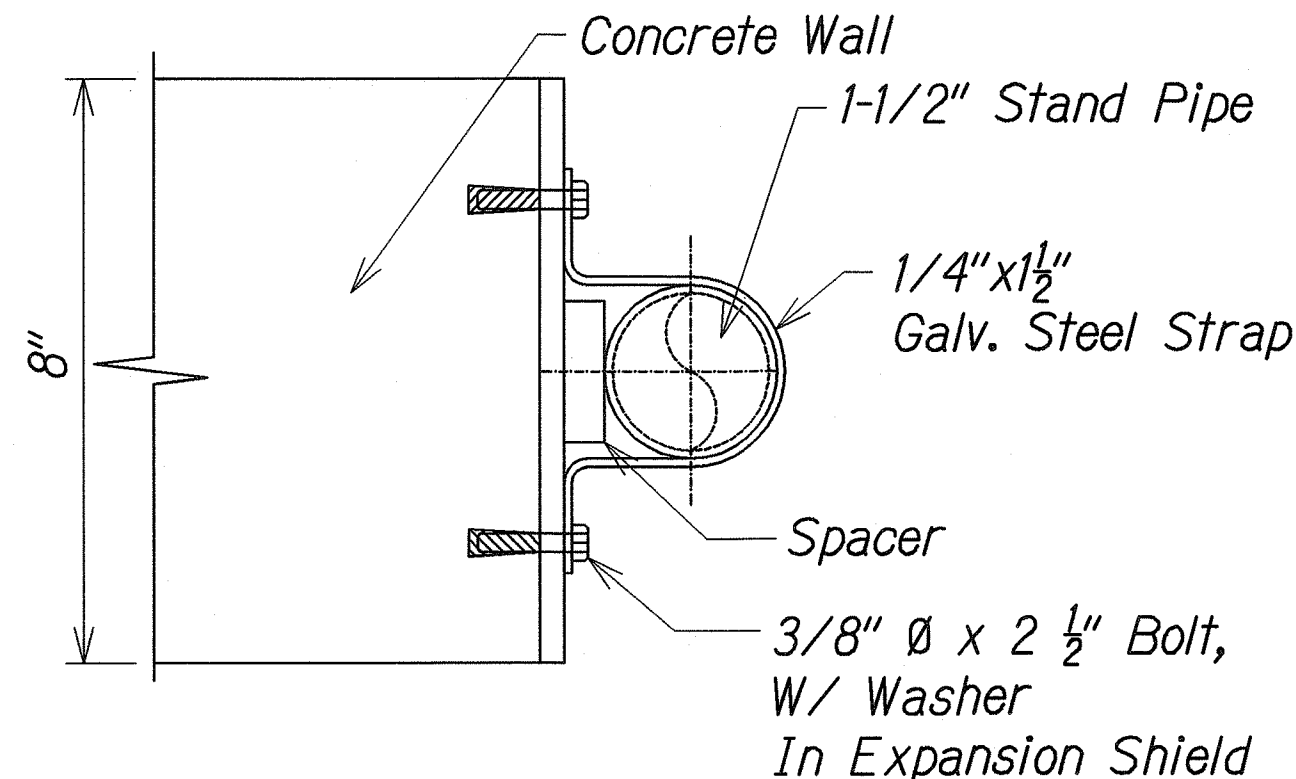
RAIN STOP DETAIL 2
Scale: 1/2" = 1'-0" C-13, C-14 | C-15



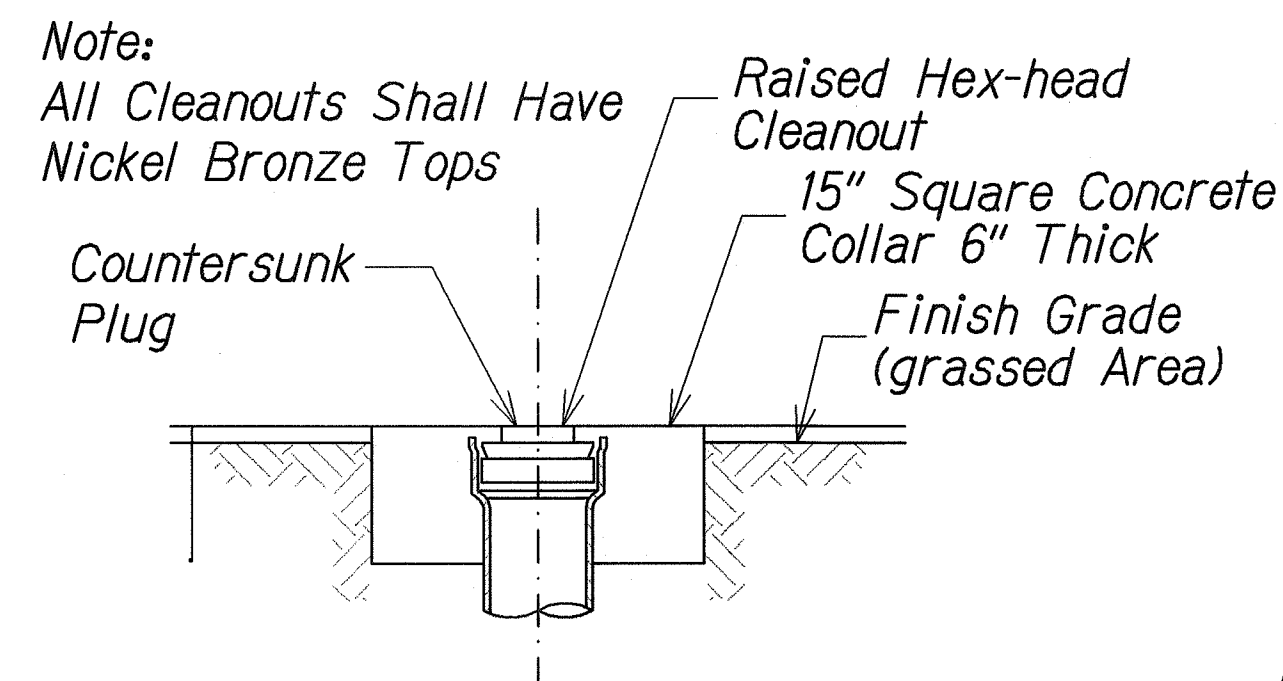
STAND PIPE DETAIL 6
Not To Scale C-13, C-14 | C-15



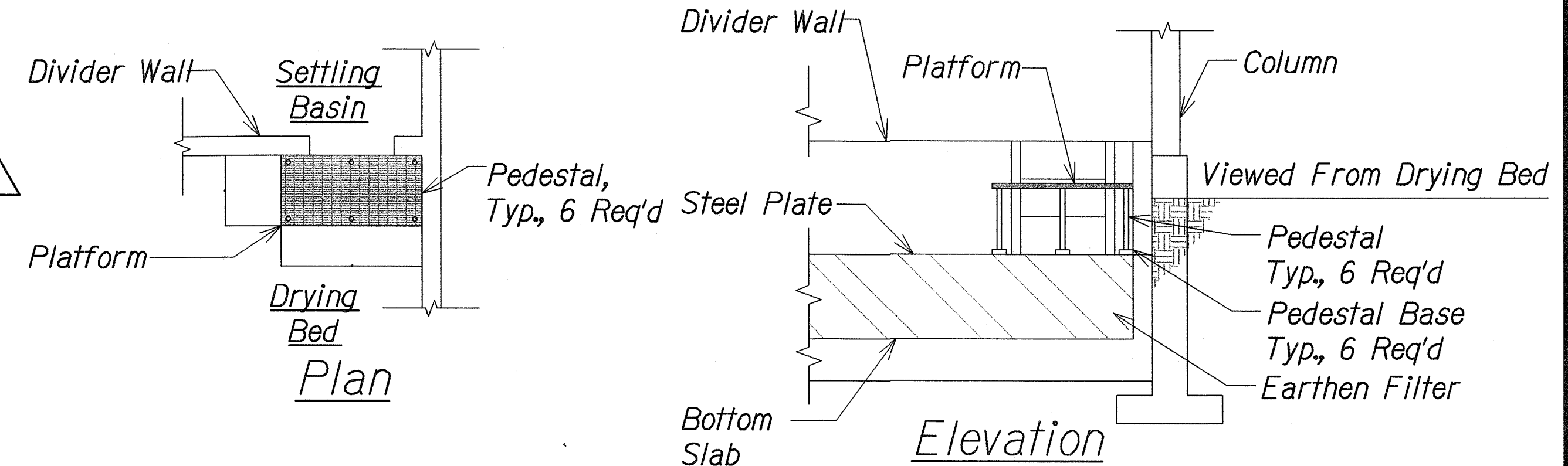
BOLLARD DETAIL 3
Not To Scale C-6 | C-17



STAND PIPE STRAP DETAIL 4
Not To Scale C-15 | C-15



CLEANOUT-TO-GRADE DETAIL 7
Not To Scale C-8 | C-15

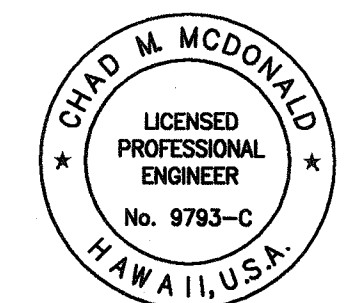


Platform Notes:

- Grate Pattern : 1" Thick =, 1" x 4"
- Maximum Deflection : 0.375" @ 300 lbs Load
- Platform Material : FRP, Molded One Piece
- Top Surface : Integral Grit, Slip Resistant
- Pedestals : Min. 2" sq, Pre-fitted
- Pedestal Base : Elastomeric, Pre-fitted
- Total Platforms : (4) Two per Facility

PLATFORM DETAIL 9
Not To Scale C-13, C-14 | C-15

6/11/10	1	Revised Conc. Trench Det. #
Date	Revision	Sewer Pipe Trench Det.
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
MISCELLANEOUS DETAILS-1		
PEARL CITY DRYING BED FACILITY Project No. HWY-0-01-08		
Scale: As Noted	Date: May 2010	
SHEET No. C-15 OF 21 SHEETS		

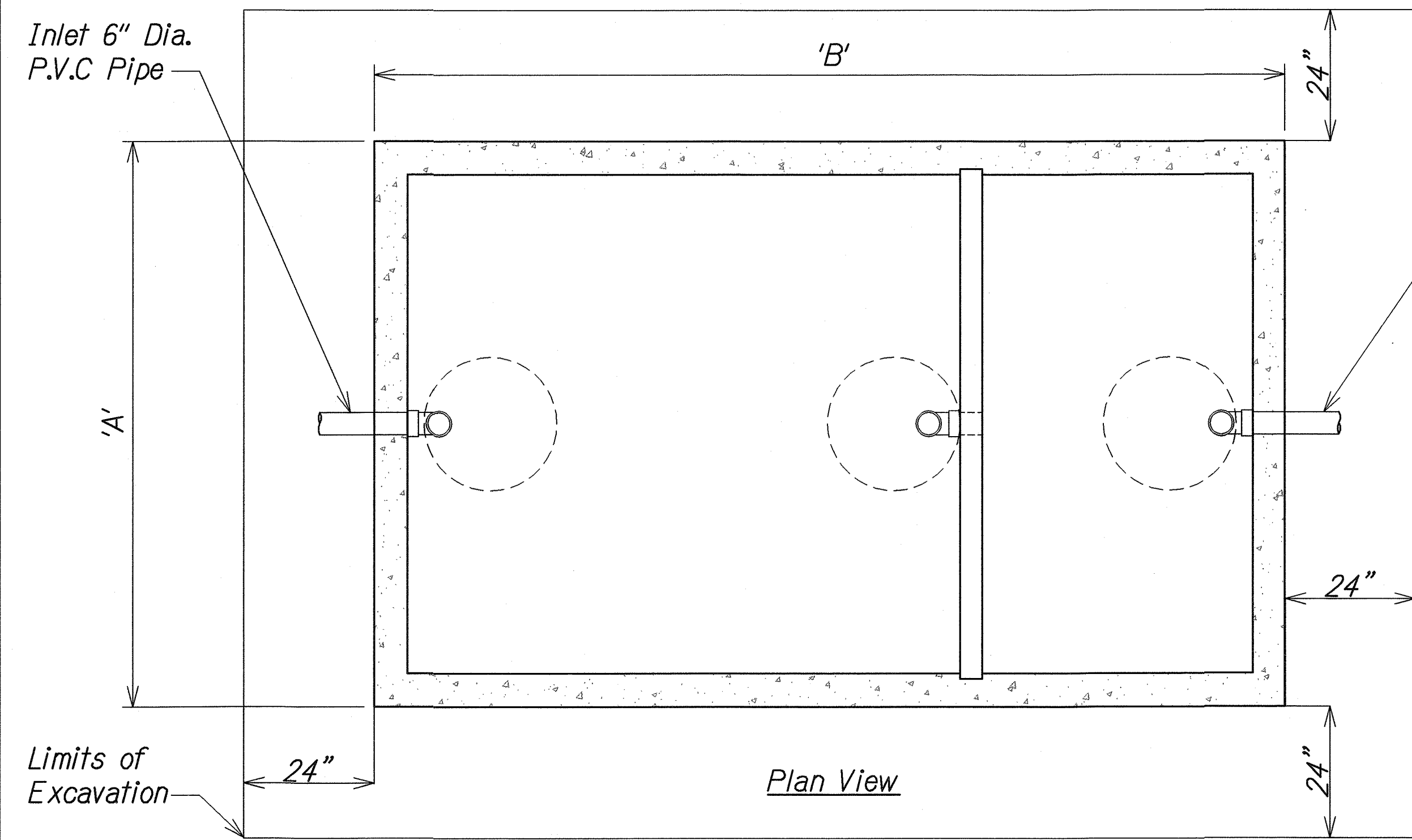
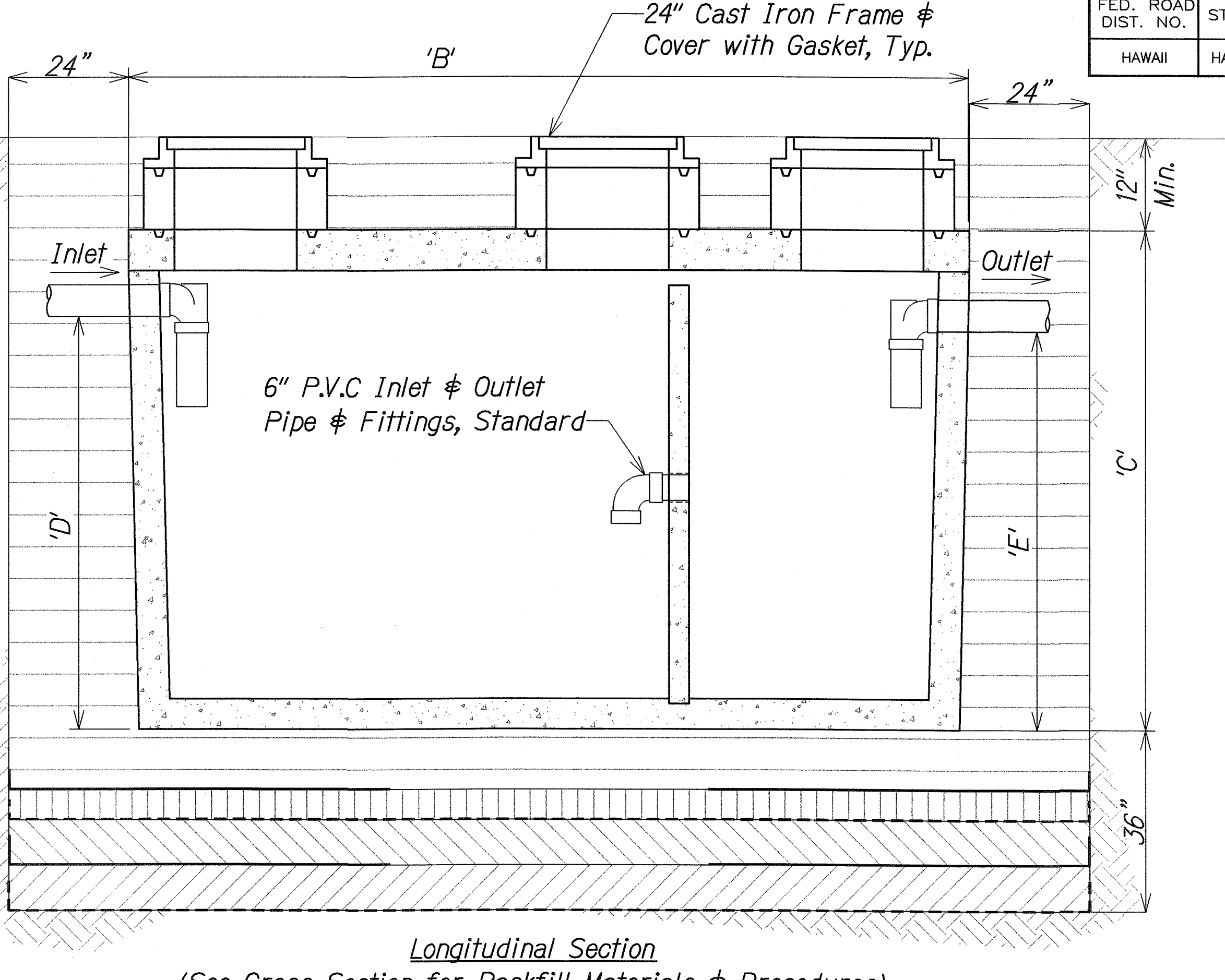
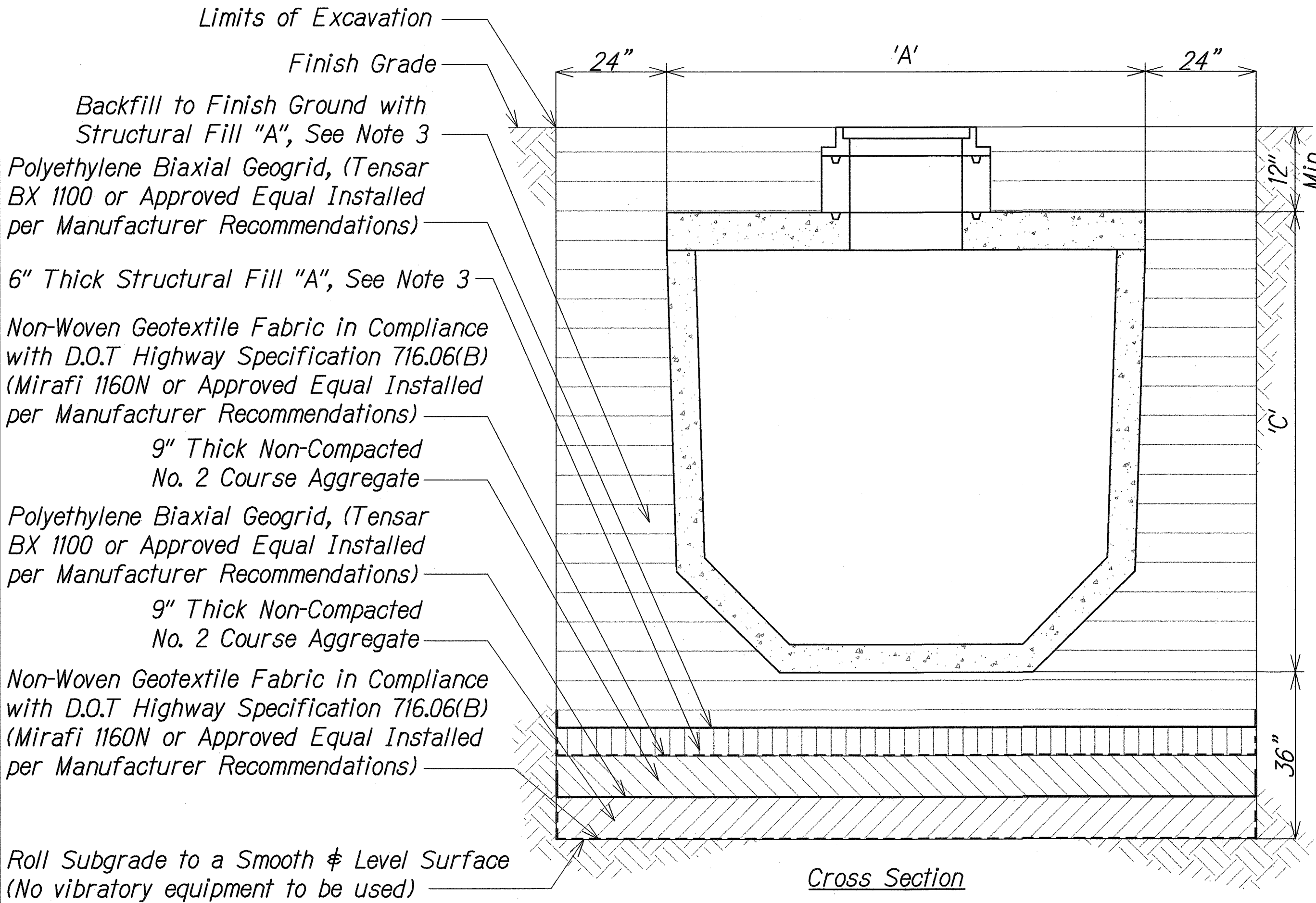


This work was prepared by me or under my supervision

Chad M. McDonald
MITSUNAGA & ASSOCIATES, INC. EXP. DATE 4/30/2012

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

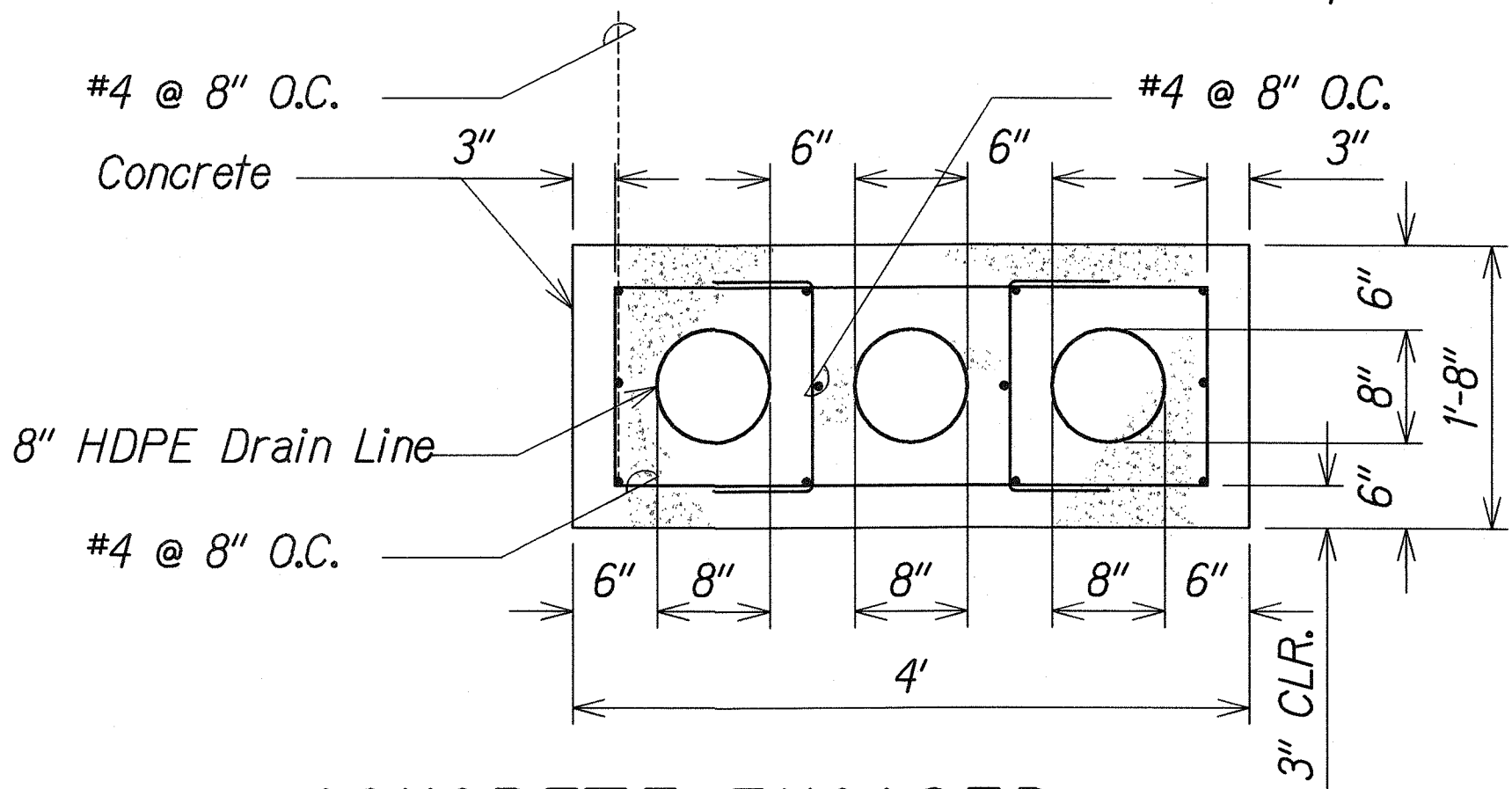
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DESIGNED BY	DRIVEN BY	
CHECKED BY	NOTED BY	
NO.		



Liquid Capacity Gallons	Width 'A'	Overall Length 'B'	Tank Height 'C'	Inlet 'D'	Outlet 'E'	Minimum Excavation Width	Minimum Excavation Length	Depth of Bury*	Max. Lift Weight
4000	8'-6"	13'-9"	8'-2"	6'-8"	6'-5"	9'-6"	14'-9"	6' MAX.	33,100

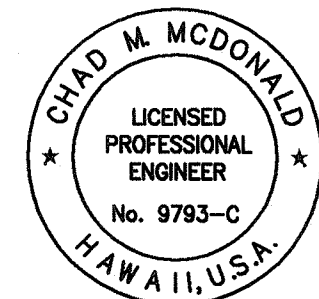
Oil-Water Separator Notes:

- The tank shall be rated for H-20 traffic wheel load with 6' max. earth cover and water table at one foot below grade.
- Exterior and interior concrete surfaces to be coated with an approved bituminous material.
- Backfill with Structural "A" Fill shall be done in 8-inch loose lifts compacted to 6-inch thickness with a minimum of 90% relative compaction



CONCRETE ENCASED DRAINAGE PIPES DETAIL

Scale: 1" = 1'-0"



This work was prepared by me or under my supervision

Chad M. McDonald
MITSUNAGA & ASSOCIATES, INC. EXP. DATE 4/30/2012

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

6/11/10	1	Revised Oil-Water Separator Det., Relocated Stop Log Det. to Sht. C-10 & Revised Det. Reference.
---------	---	--

Date Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS-2

PEARL CITY DRYING BED FACILITY
Project No. HWY-0-01-08

Scale: As Noted Date: May 2010

SHEET No. **C-16** OF 21 SHEETS

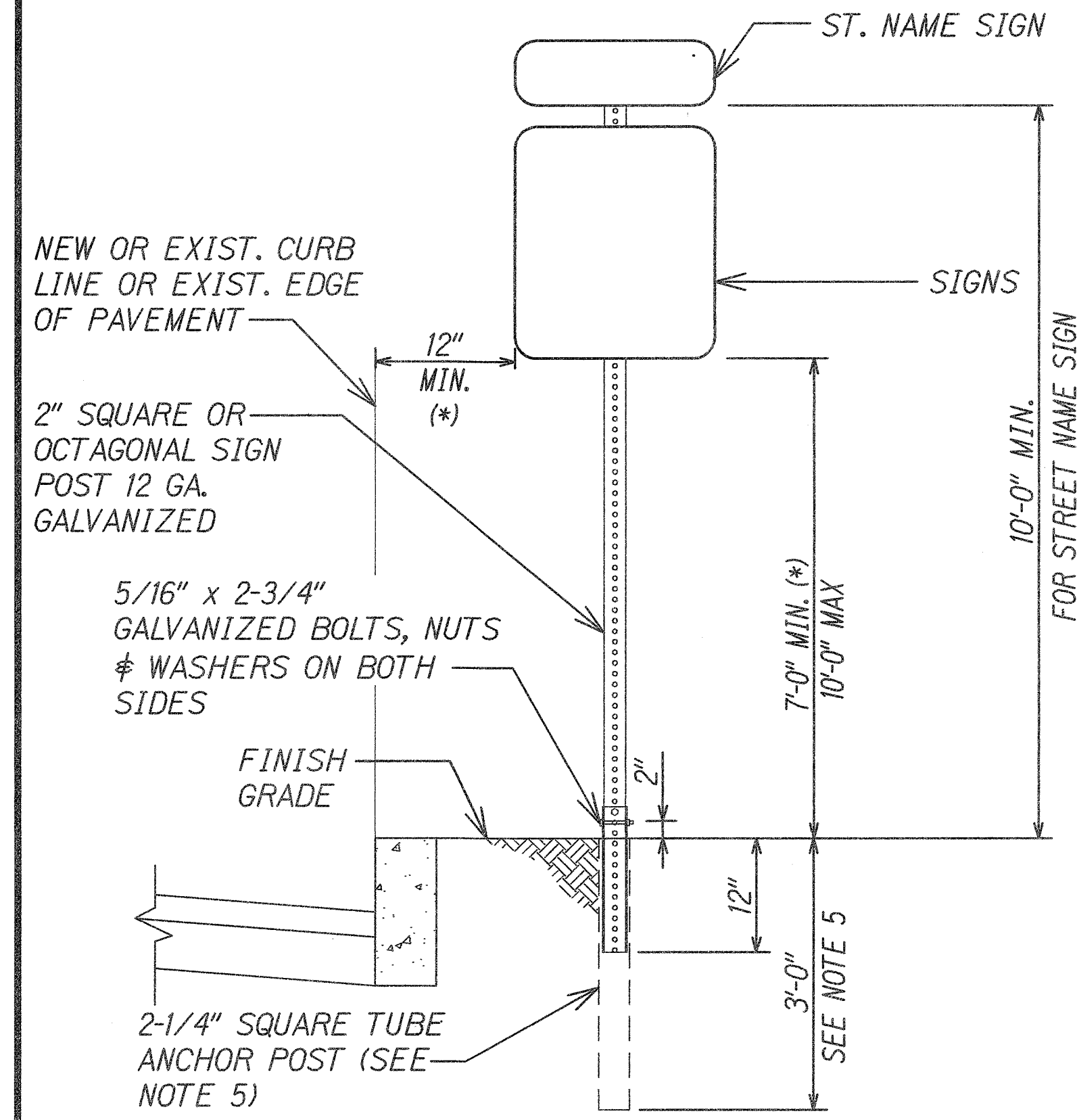
2010/C-9-85

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-0-01-08	2010	ADD.19	34

ANCHOR POSTS NOTES:

1. KEEP INSIDE OF 2-1/4" ANCHOR POST FREE FROM IMPEDIMENTS THAT MAY PREVENT PROPER SEATING OF 2" SIGN POST.
2. SQUARE TUBING SIGN POST SHALL BE TELESCOPING TYPE WITH 7/16" DIA. HOLES AT 1" O.C. ON FOUR SIDES.
3. OCTAGON SIGN POST SHALL BE TELESCOPING TYPE WITH 7/16" DIA. HOLES AT 1" O.C. ON TWO SIDES.
4. USE 5/16" x 2-3/4" BOLTS TO SECURE THE OCTAGONAL AND SQUARE TUBING POST ONTO THE 2-1/4" SQUARE TUBE AND ANCHOR POST.
5. MINIMUM BURY DEPTH FOR THE 2-1/4" ANCHOR POST SHALL BE AS FOLLOWS:
4'-0" MIN. AT POOR SOIL CONDITIONS
2'-6" MIN. AT ROCKY CONDITIONS

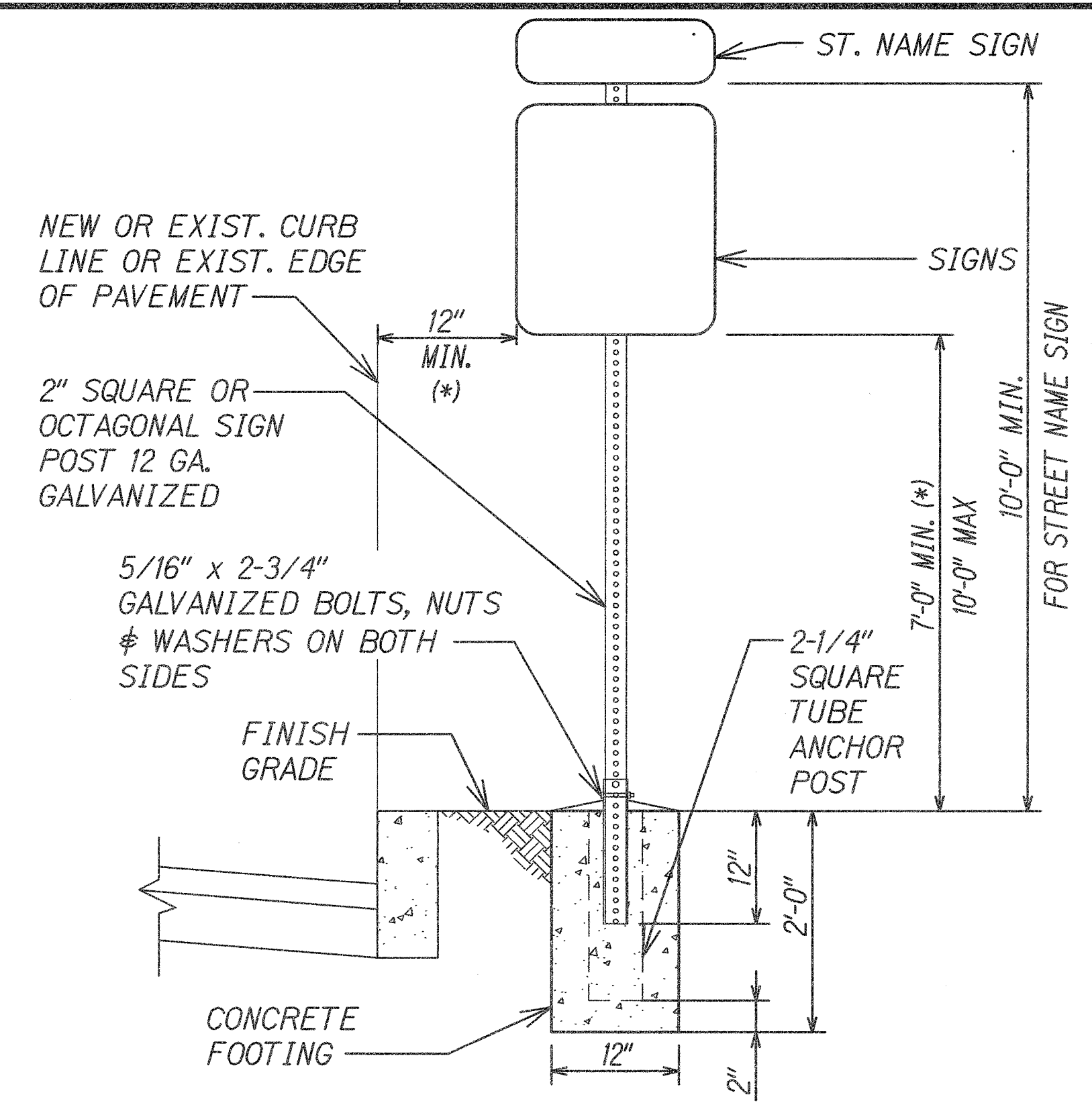
(*) ALL SIGN(S) INSTALLATIONS MUST MEET LATERAL AND HEIGHT CLEARANCES, INCLUDING NEW SIGNS THAT WILL BE POSTED ON TO EXISTING SIGN POST. EXTEND, RELOCATE OR REPLACE AS REQUIRED TO MEET CLEARANCE REQUIREMENTS.



INSTALLATION OF NEW OR RELOCATED SIGN POST W/ ANCHOR POST, WITHOUT CONCRETE FOOTING For Work Within City ROW

Not To Scale

5
C-9 | C-17



INSTALLATION OF NEW OR RELOCATED SIGN POST W/ CONCRETE FOOTING For Work Within City ROW

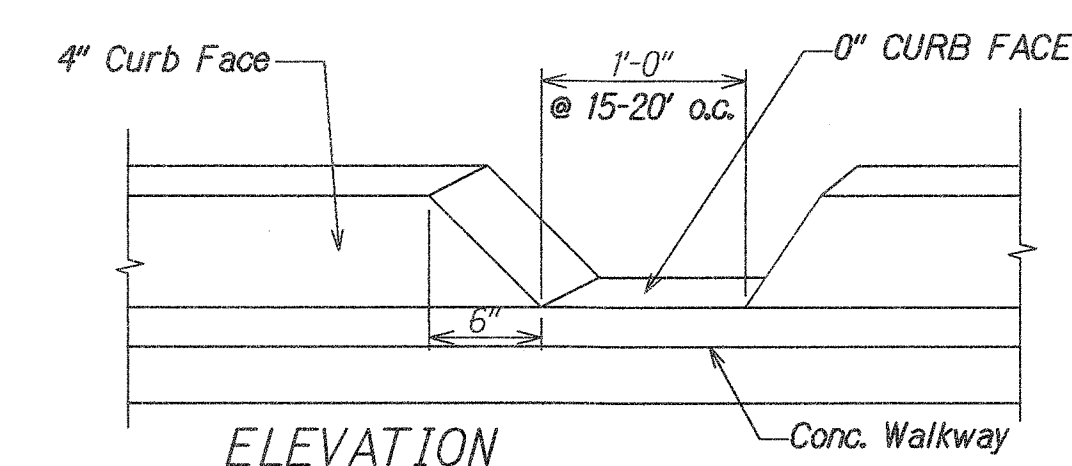
Not To Scale

6
C-9 | C-17

ANCHOR POSTS NOTES:

1. KEEP INSIDE OF 2-1/4" ANCHOR POST FREE FROM IMPEDIMENTS THAT MAY PREVENT PROPER SEATING OF 2" SIGN POST.
2. SQUARE TUBING SIGN POST SHALL BE TELESCOPING TYPE WITH 7/16" DIA. HOLES AT 1" O.C. ON FOUR SIDES.
3. OCTAGON SIGN POST SHALL BE TELESCOPING TYPE WITH 7/16" DIA. HOLES AT 1" O.C. ON TWO SIDES.
4. USE 5/16" x 2-3/4" BOLTS TO SECURE THE OCTAGONAL AND SQUARE TUBING POST ONTO THE 2-1/4" SQUARE TUBE AND ANCHOR POST.

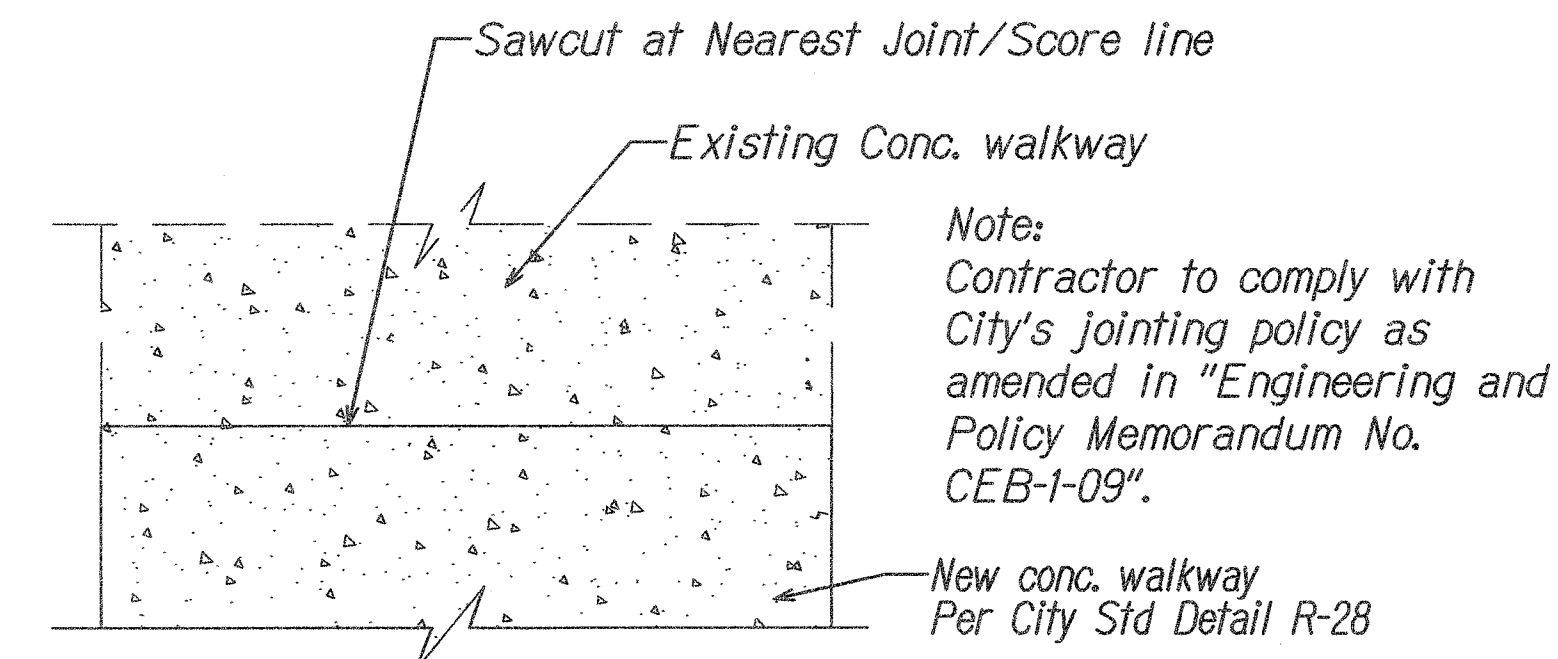
(*) ALL SIGN(S) INSTALLATIONS MUST MEET LATERAL AND HEIGHT CLEARANCES, INCLUDING NEW SIGNS THAT WILL BE POSTED ON TO EXISTING SIGN POST. EXTEND, RELOCATE OR REPLACE AS REQUIRED TO MEET CLEARANCE REQUIREMENTS.



1' GAP IN CURB DETAIL For Work Within City ROW

Not To Scale

1
C-9 | C-17



CONC. TO CONC. CONNECTION DETAIL For Work Within City ROW

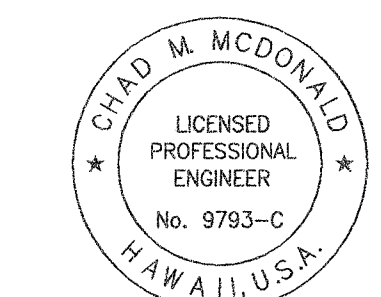
Not To Scale

3
C-9 | C-17

APPROVED:

Meloni J. J. J.
CHIEF, CIVIL ENGINEERING BRANCH, DPP

4/20/11



This work was prepared by me or under my supervision

Chad M. McDonald
4/30/2012
MITSUNAGA & ASSOCIATES, INC. EXP. DATE
NOTE: Contractor to check and verify dimensions at job before proceeding with work.

4/19/11	CI	Removed all handrail details, jointing detail and sidewalk detail. Added gap in curb detail, Conc. To Conc. Connection Detail, and Sign Post Detail
---------	----	---

6/11/10	1	Revised All Details on Sheet
---------	---	------------------------------

Date	Revision
------	----------

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INTERIM WALKWAY
DETAILS

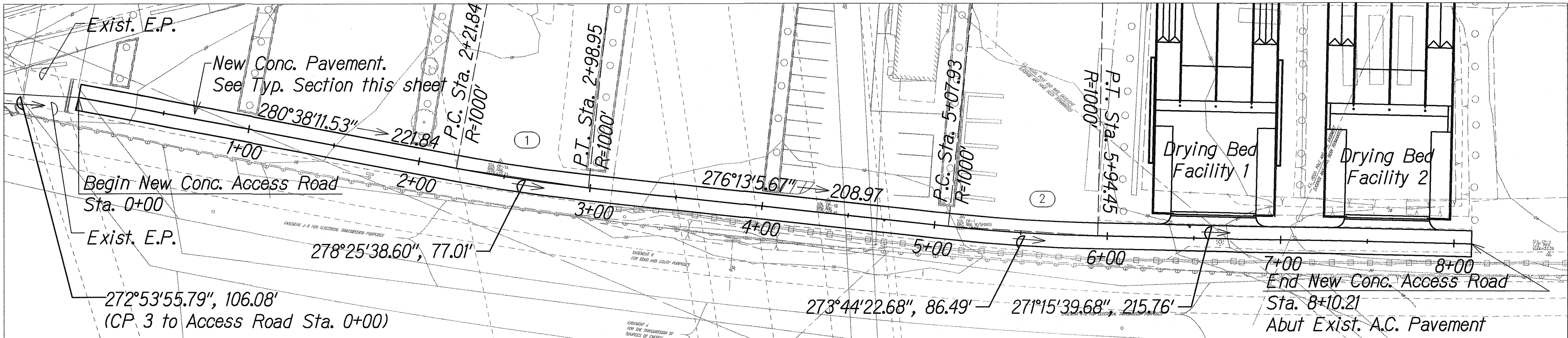
PEARL CITY DRYING BED FACILITY
Project No. HWY-0-01-08

Scale: As Noted Date: May 2010

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-0-01-08	2010	ADD.20	34

ACCESS ROAD CENTERLINE CURVE DATA		
	①	②
Δ	4°0'44"	4°57'26"
Δ/2	2°0'22"	2°28'43"
R	1000'	1000'
T	35.03'	43.29'
C	70.01'	86.49'
Lc	70.03'	86.52'



Joining Notes:

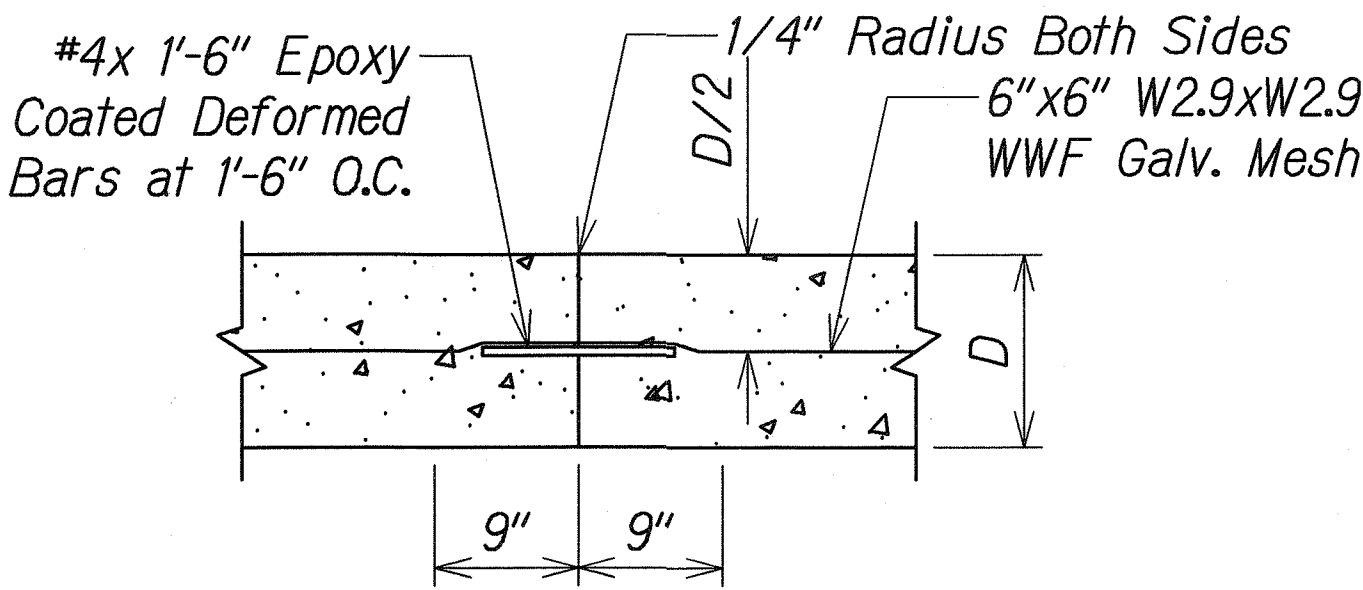
- All new PCC pavements shall be provided with permeable base course with longitudinal underdrains.
- Space transverse joint at successive intervals as shown on the plan.
- Locate transverse construction joints at the planned transverse contraction joint as shown on the jointing plan.
- Provide shop drawings for joint layout a minimum of 2-weeks prior to work where obstructions such as manholes are encountered, gore areas, termination of concrete with triangular or odd shaped slabs, and at intersections with other streets.
- For other joint requirements, see Section 411 - Portland Cement Concrete Pavement.

Longitudinal Joint Notes:

- Epoxy-Coated Deformed Bars shall conform to ASTM A775/A775M-00 Grade 40.
- Tiebars are to be located a minimum distance of 15 inches from a Transverse Joint. Tiebars closer to the transverse joint may interfere with joint movement.
- The Contractor shall not damage the epoxy coating on the deformed bars in any way during shipment, handling, placement or rebending. Damaged epoxy-coated deformed bars shall be replaced at no cost to the State.

Transverse Joint Notes:

- Epoxy-Coated Dowels shall conform to AASHTO M 284/M 284M Grade 60. For pavements with $D < 10"$, use $1\text{-}1/4" \text{ } \varnothing \times 1'\text{-}6"$ long dowels. For pavements with $D \geq 10"$, use $1\text{-}1/2" \text{ } \varnothing \times 1'\text{-}6"$ long dowels.
- Locate Transverse Construction Joints at the nearest planned Transverse Contraction Joint as shown on the jointing plans. joint shall be perpendicular to paving lane.
- It is critical that dowels be positioned in place parallel to the pavement surface and paving lane direction to avoid future cracks in the PCC pavement. The ends of the dowels shall not deviate more than 0.012' from the parallel in 9" length.
- The Contractor shall not damage the epoxy coating on the dowel in any way during shipment, handling or placement. Damaged epoxy-coated dowels or rebar shall be replaced at no cost to the State.

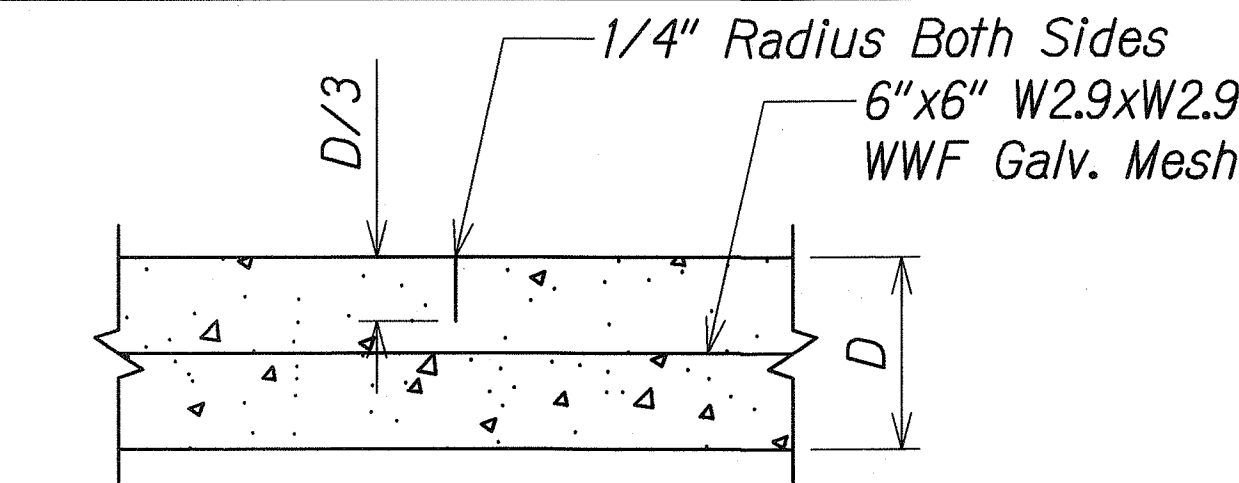


LONGITUDINAL CONSTRUCTION JOINT

Not to Scale

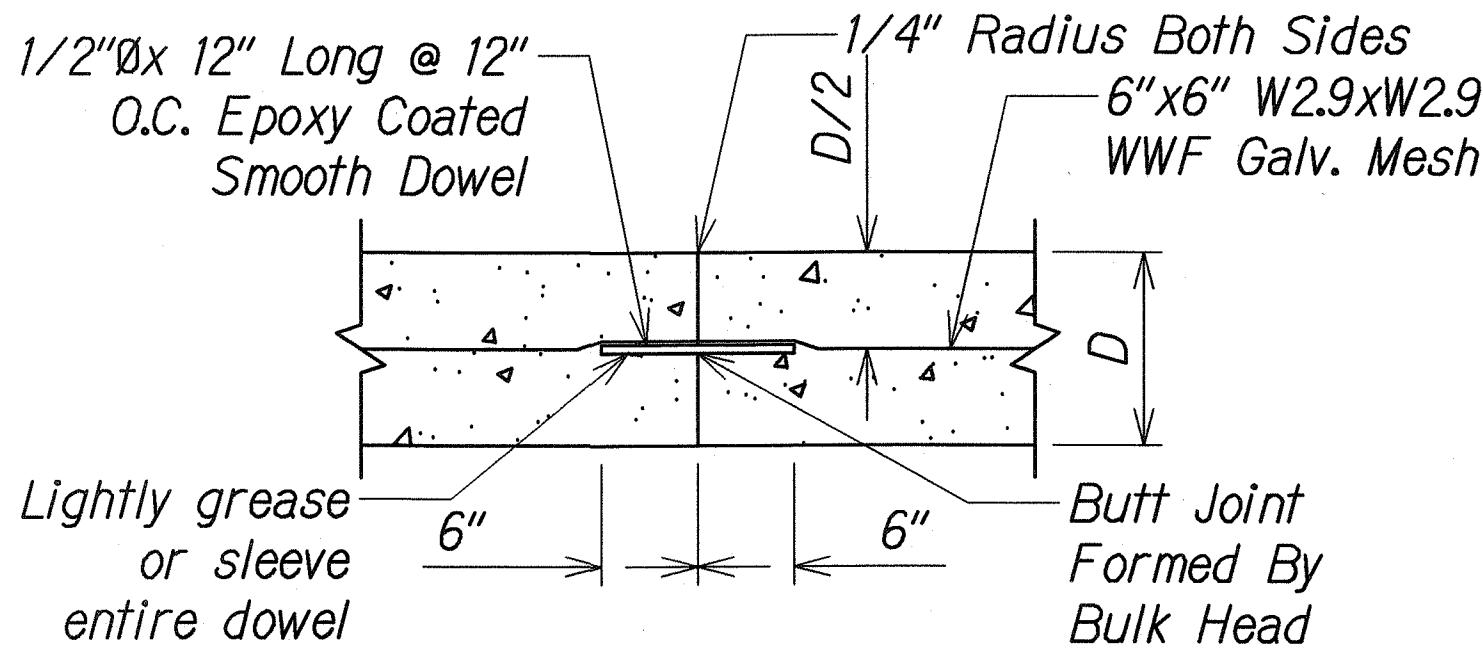
ACCESS ROAD LAYOUT

Scale: 1"=40'



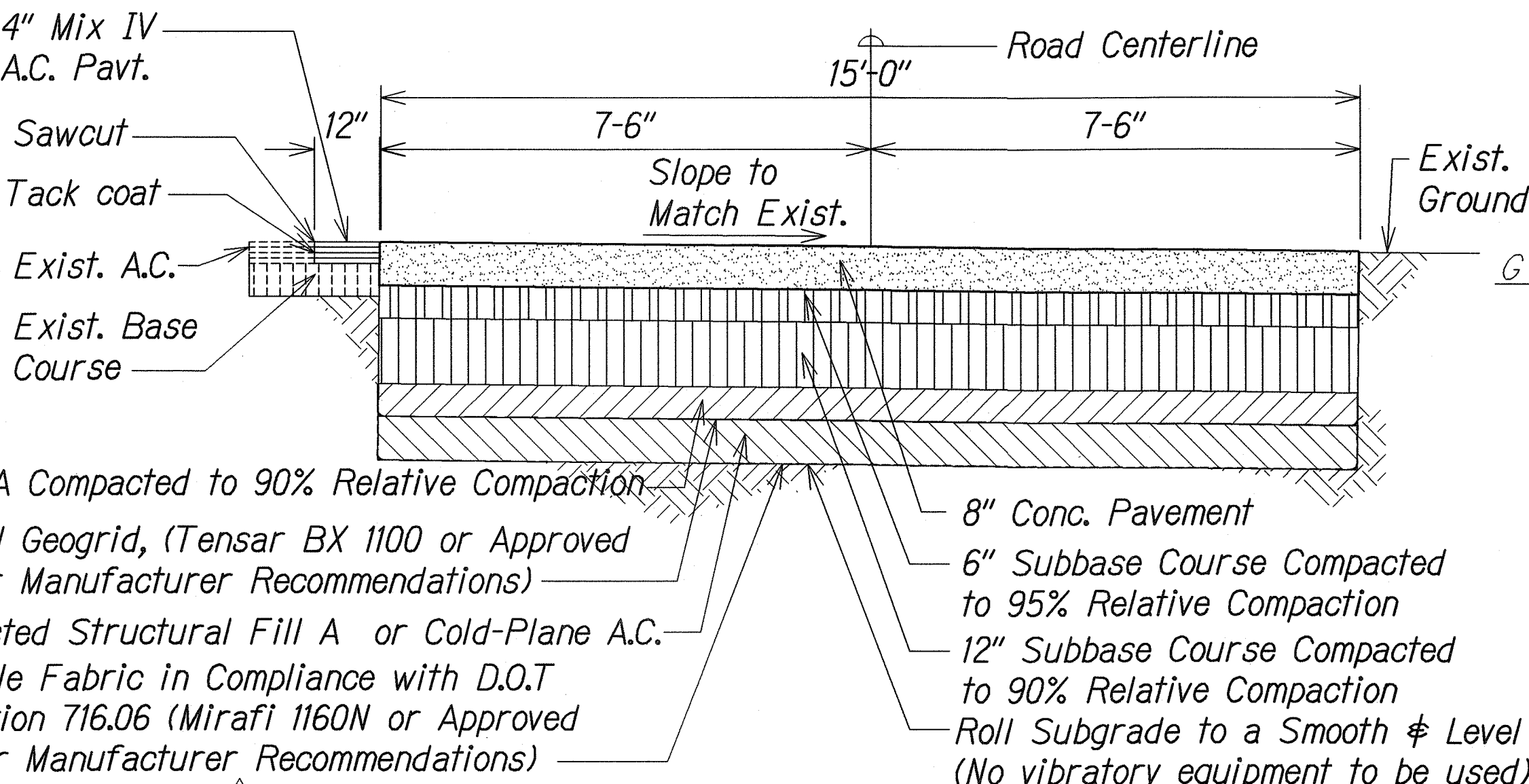
TRANSVERSE OR LONGITUDINAL CONTRACTION JOINT

Not to Scale



TRANSVERSE CONSTRUCTION JOINT

Not to Scale

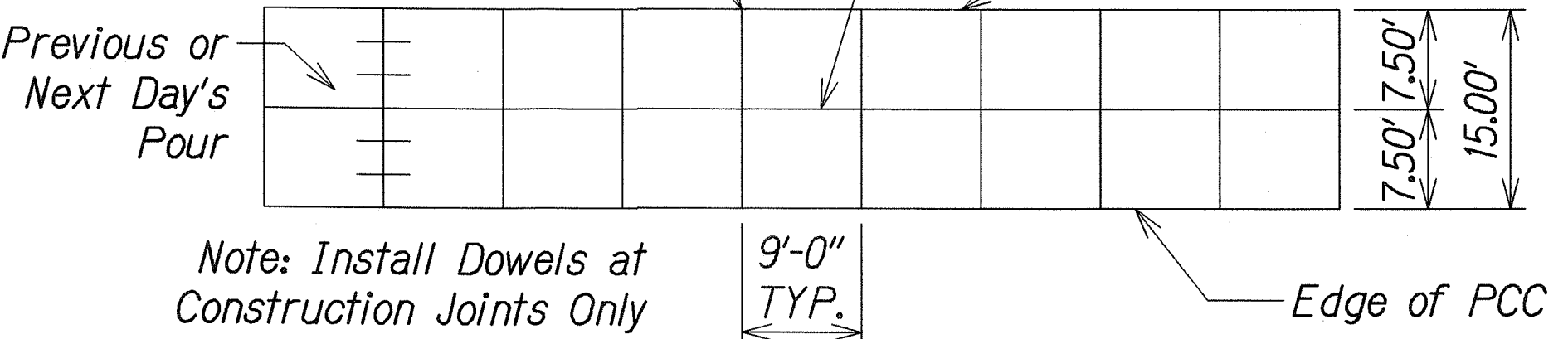


ACCESS ROAD REPAVEMENT TYPICAL SECTION

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

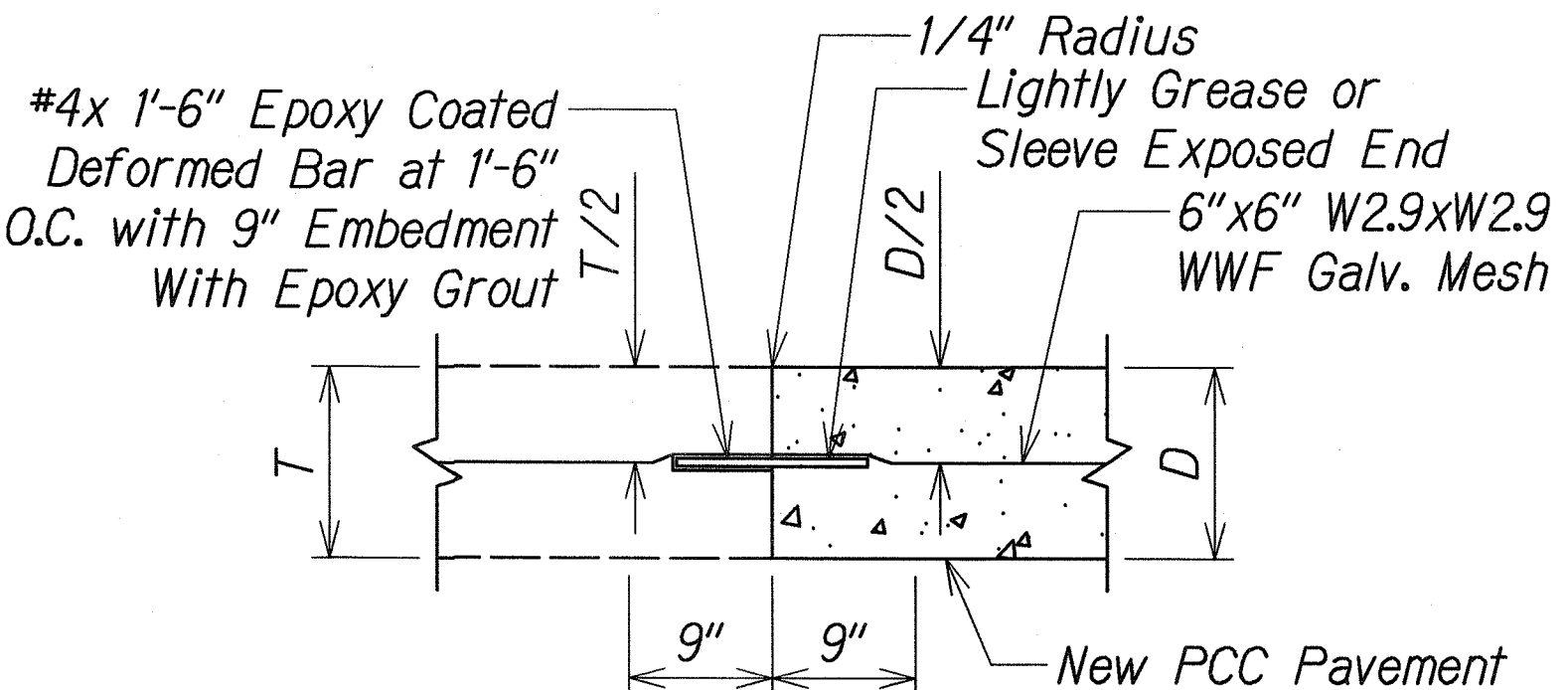
Transverse Contraction Joint, See Detail on This Sheet

Longitudinal Contraction Joint, See Detail on This Sheet



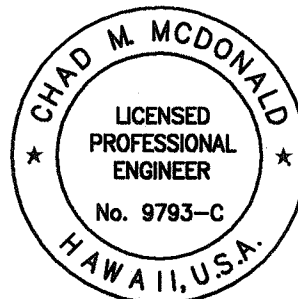
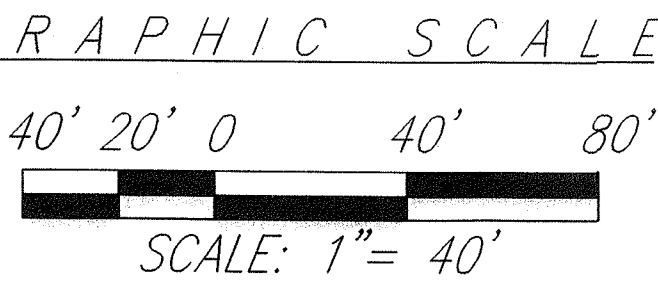
TYPICAL JOINT LOCATION AND LAYOUT PLAN FOR CONSTANT PCC PAVEMENT

Scale: 1" = 1'-0"



LONGITUDINAL CONSTRUCTION JOINT AT EXIST. PCC PAVEMENT

Not to Scale



This work was prepared by me or under my supervision

Chad M. McDonald
4/30/2012
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

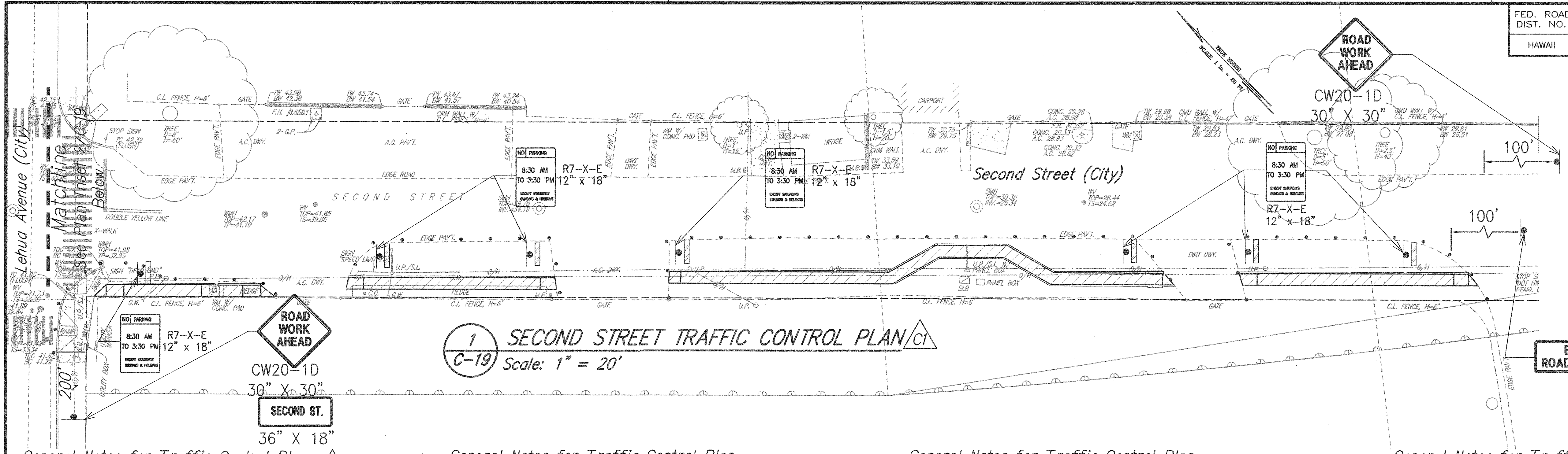
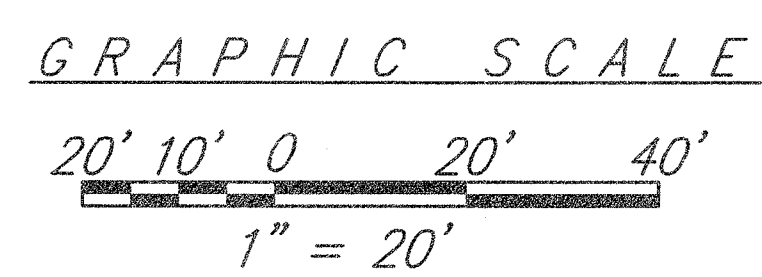
NOTE: Contractor to check and verify dimensions at job before proceeding with work.

6/11/10	<div><div>1</div></div>	Revised Access Road Pavement Section
Date	Revision	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
<u>ACCESS ROAD LAYOUT</u>		
<u>PEARL CITY DRYING BED FACILITY</u>		
<u>Project No. HWY-0-01-08</u>		
Scale: As Noted		Date: May 2010
SHEET No. C-18 OF 21 SHEETS		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	HWY-0-01-08	2010	21	34

LEGEND:

- Traffic Cone
- Type II Barricade
- Work Area



1 SECOND STREET TRAFFIC CONTROL PLAN C-19 Scale: 1" = 20'

General Notes for Traffic Control Plan: C-1

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 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 is 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.

General Notes for Traffic Control Plan:

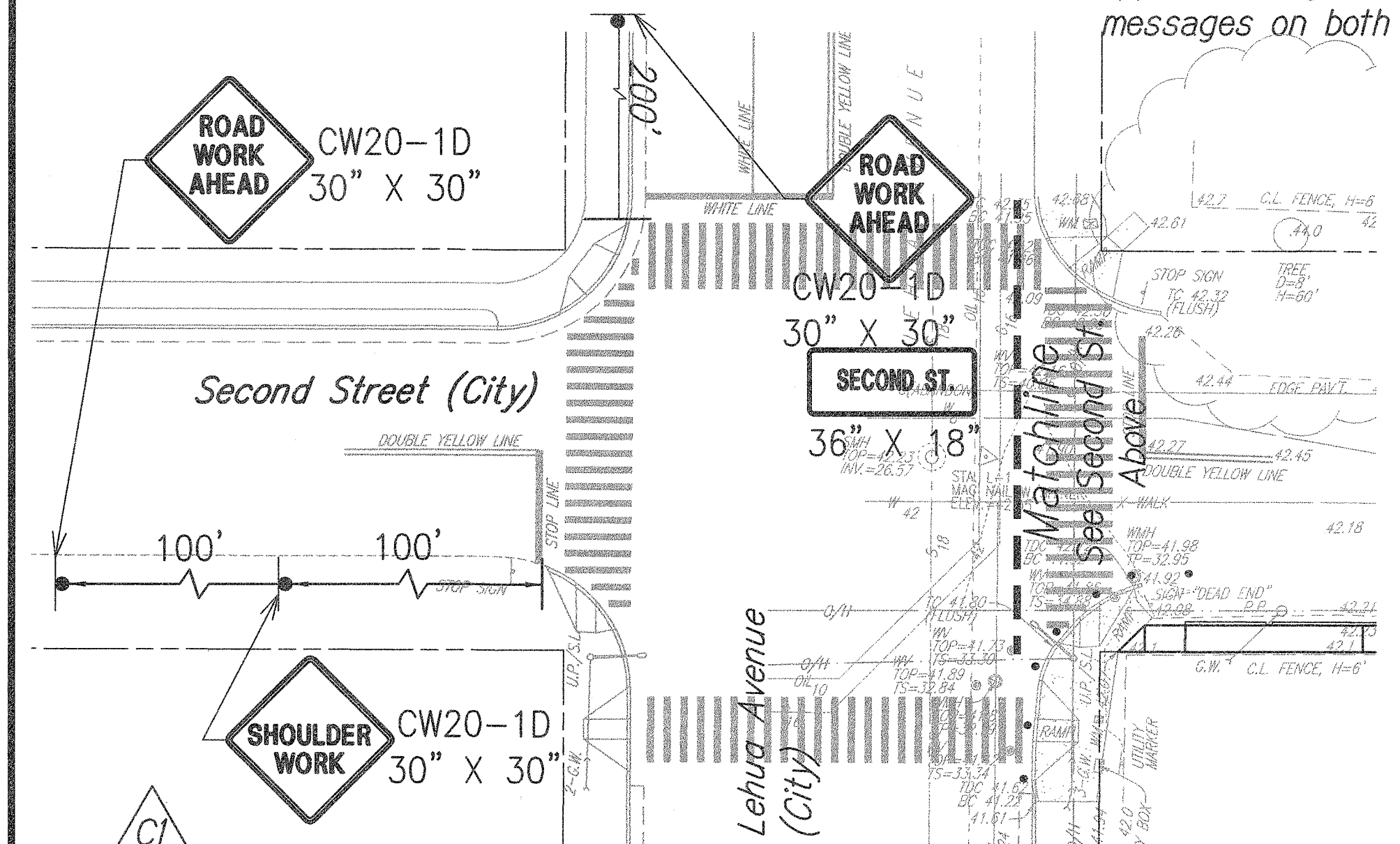
5. Flaggers and/or police officers shall be in sight of each other or in direct communication at all times.
6. When required by the issuing office, the permittee shall install a flashing arrow signal as shown on the traffic control plans.
7. All traffic lanes shall be a minimum of 10 feet wide.
8. All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.
9. The backs of all signs used for traffic control shall be appropriately covered to preclude the display of in applicable sign messages (i.e., when signs have messages on both faces).

General Notes for Traffic Control Plan:

10. Prior Lane closures shall be limited only to the extent of accomplishing each day's work. As soon as each day's 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. Existing faded or obliterated pavement markings that are necessary for safe traffic flow in the construction area shall be replaced with temporary or permanent markings before opening the roadway to public traffic each day.
11. Permanent pavement markings shall be spaced at a maximum distance of 20 feet apart. A minimum of six channelizing devices shall be used for each taper length.
12. Cones and delineators shall be spaced at a maximum distance of 20 feet apart. A minimum of six channelizing devices shall be used for each taper length.

General Notes for Traffic Control Plan:

13. Contractor Driveways shall be kept open unless the owners of the property using the driveway are otherwise provided for satisfactorily. Further, the permittee shall control traffic going into and out of driveways.
14. Buffer and taper area on approach to any work area shall be kept clear of vehicles and equipment.
15. A high level warning device (Flag Tree) shall be installed on approach to all work areas approaching the work area.
16. "No Parking" signs shall be posted within any work area and for the buffer and taper areas approaching the work area.
17. Traffic Control plans are approved for work on any city street area only between the hours of 08:30 A.M. and 03:30 P.M. (Monday - Friday).



2 SECOND STREET/LEHUA AVENUE TRAFFIC CONTROL PLAN C-19 Scale: 1" = 20'

DATE	_____
SURVEY OBTAINED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____

APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP

DATE: 4/21/11

CHAD M. MCDONALD
LICENSED PROFESSIONAL ENGINEER
No. 9793-C
HAWAII, USA

This work was prepared by me or under my supervision

4/30/2012
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

4/19/11	C-1 Removed silt fence, & moved temp e.c. notes to sheet C-1A. Added Traffic Control Notes and modified Traffic Control Plan, added Temp. no parking signage and Inset 2/C-19
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TRAFFIC CONTROL PLAN	
PEARL CITY DRYING BED FACILITY Project No. HWY-0-01-08	
Scale: As Noted	Date: May 2010
SHEET No. C-19 OF 21 SHEETS	