



Hawaii Community Development Authority
Planning Office
547 Queen Street
Honolulu, Hawaii 96813
(808) 594-0340 FAX (808) 587-0299



PERMIT APPLICATION

Kakaako Community Development District

APPLICANT INFORMATION

Applicant Kewalo Harbor Development Company
Mailing Address 1240 Ala Moana Blvd, Suite 200, Honolulu, Hawaii, 96814
Telephone No. (808) 591-8411
Project Site Address Kewalo Basin, Oahu, Hawaii
Land Owner Hawaii Community Development Authority
Address 547 Queen Street, Honolulu, Hawaii, 96813
Description of Work to be Done Replacement and expansion of wharf infrastructure, including fixed docks, supporting piles and dock side utilities.

TYPE OF REQUEST

- ☐ Rules Clearance
☐ Improvement Permit
☐ Development Permit
☐ Conditional Use Permit
☐ Conditional Use of Vacant Land
☐ Temporary Use
☒ Development (Makai)
☐ Other _____

PARCEL INFORMATION

Tax Map Key: (1) 2-1-058: Pors. 131

Neighborhood Zone: Submerged lands: No
designation. Surrounding fast lands: Waterfront Commercial

PROJECT INFORMATION

Existing Use and Floor Area (s.f.)

- ☐ Commercial _____
☐ Industrial _____
☐ Residential _____
☒ Other Docks
TOTAL _____

Proposed Use and Floor Area (s.f.)

- ☐ Commercial _____
☐ Industrial _____
☐ Residential _____
☒ Other Docks
TOTAL _____

Nature of Work

- ☐ New Building * ☒ Repair
☐ Addition * ☐ Electrical
☐ Demolition ☐ Plumbing
☐ Alteration
☒ Other Build additional docks

Notes: _____

NOTE TO APPLICANT

- Please refer to Subchapter 5 of the Mauka Area Rules, Chapter 217, Hawaii Administrative Rules for detailed information on procedures, permit requirements and fee schedule.
- Final approval by HCDA is required prior to issuance of a building permit for any development within the Kakaako District. For approval of building permits, submit the building permit application form and the following sets of plans:
 - Building Department copy
 - Job site copy
 - HCDA copy (if applicable)
- For any project where construction drawings are not available, submit two (2) sets of project information as listed in "Filing Procedures".
- For any project located within the Special Management Area (SMA) of the Kakaako Makai Area, please consult with the State Office of Planning for SMA use requirements.

I hereby acknowledge that I have read this application and attached information for the above-referenced project site and state that the information is correct. I hereby agree to comply with all City and County of Honolulu ordinances and state laws regulating development and building construction and authorize HCDA to inspect the property or construction upon notification of the undersigned for compliance with the respective Permit.

Signature (applicant or agent): Date: 1/24/16
Print name: Race Randle Telephone No.: (808) 591-8411

FOR HCDA USE ONLY:

Permit Fee: _____ Paid by: _____

Landowner's Consent (if applicable): _____

Section 206E-5.6 (if applicable): _____

Reviewed By HCDA: _____ Date: _____ HCDA Approved Date: _____

KEWALO BASIN REPAIRS PROJECT

PROJECT HISTORY AND NARRATIVE

Kewalo Basin is a commercial and recreational boat harbor first developed in the 1920s with construction of the Kewalo Basin Wharf, which presently fronts the former Fisherman's Wharf restaurant site. This was followed by construction of the mauka bulkhead and the Waikiki bulkhead. The current harbor area of approximately 22 acres has been maintained since the harbor was dredged and expanded during World War II, and the Makai revetment constructed in 1955. The Makai revetment enclosed the harbor and provides sheltering from Kona storms. The harbor is considered a medium-draft facility with a minimum design water depth of 20 feet.

The Hawaii Community Development Authority ("HCDA") regulates planning and zoning for the 600-acre Kaka'ako Community Development District ("Kaka'ako CDD"), in which Kewalo Basin is located. Kewalo Basin is a mixed-use harbor used by commercial (fishing and excursion) and pleasure craft. It has historically been an instrumental part of Honolulu's waterfront, serving as a small boat commercial harbor for intrastate commercial activities and supplementing the inter-state commerce of larger harbors administered by the State of Hawai'i Department of Transportation (SDOT) Harbors Division. Previously controlled by the SDOT Harbors Division, Kewalo Basin and the surrounding State owned fast lands were transferred to HCDA by Act 86 in 1990, and jurisdiction of the harbor was transferred on March 1, 2009.

HCDA then entered in a lease with Kewalo Harbor, LLC, a wholly owned subsidiary of The Howard Hughes Corporation, on August 1, 2014. As of September 1, 2014 (the commencement date of the lease) the harbor's submerged lands have been managed by Almar Management under contract to Kewalo Harbor Management Company, a wholly owned subsidiary of The Howard Hughes Corporation.

The purpose of the proposed project is to improve the current and future uses of Kewalo Basin for commercial fishing, tour, charter, and pleasure craft operations, while maintaining a financially viable harbor as a commercial and community resource for the State. The project is needed due to the deteriorated condition of existing dock decks and other facilities within the harbor, the long-term need for repair of the dock infrastructure, and the present lack of utility systems that would improve human and environmental health and safety (e.g., fire suppression, wastewater pump out, dedicated fuel dock).

The proposed project has two phases. The First phase involves demolition and replacement of decking and pile caps at Front Row Diamond Head side of the Herring Bone Dock, and Piers A, B, C and D. Finger docks will be added to Pier C as well. The second phase of the project will add an extension to the Makai Loading Dock and Pier C..

The full build out redevelopment concept for Kewalo Basin increases moorage within the harbor, provides modernized amenities to boaters, improves operational efficiencies within the basin, and better integrates the berthing and mooring facilities with shore-side utilities and infrastructure.

The proposed project includes the following key features (see attached Exhibit A):

- Approximately 214 (180 in Phase 1 and an additional 34 in Phase 2) slips ranging in dedicated lengths from 30 feet (ft) to 150 ft, with a total length of moorage of approximately 12,290 ft. The structures represent an aerial coverage of 164,482 square feet (ft²), or about 13% of the harbor footprint.
- **Phase 1**
 - Security – Provide fob activated gates at Front Row (Ewa of Herring Bone Dock), Herring Bone Dock, Piers A, B, C and D. Provide facility wide CC security cameras.
 - Utilities - Modernization of the water and electric utilities at all slips
 - Provide septic handling systems at Makai Loading Dock for the disposal of onboard septic waste directly into the municipal sanitary system. This may include a dock-based, mechanical pump-out station.
 - Provide required fire-fighting capabilities at the improved facility.
 - Provide a dedicated marine-specified fueling facility at the Makai Loading Dock and installation of associated above-ground fuel tanks and environmental protection equipment.
 - Fisherman's Wharf – Modernize utilities to service large vessels and upgrade cleats and fenders.
 - Front Row (Diamond Head side of Herring Bone Dock) - Repair/replace pile caps and replace the existing deck structure with aluminum decking, new cleats and fenders.
 - Front Row (Ewa of Herring Bone Dock) and Herring Bone Dock – Repair cracks, spalling at concrete docks and apply epoxy deck coating. Repair and replace as necessary damaged cleats and fenders
 - Piers A and B – Repair/replace pile caps and replace the existing deck structure with aluminum decking with new cleats and fenders.
 - Pier C – Repair/replace pile caps and replace the existing deck structure and add finger piers to the entire structure with aluminum decking and new cleats, fenders.
 - Pier D – Repair/replace pile caps and replace the existing deck structure with precast concrete decking with new cleats and fenders.
- **Phase 2**
 - Pier C – Extend pier from Phase 1 and install new fixed aluminum finger docks with new cleats, fenders.
 - Construction of an extension 'ewa of the existing Makai loading dock.

The new docks will be fixed and made of aluminum strut or precast concrete. Fixed docks will require the demolition of existing decking and some pile caps. The total number of new piles required at full buildout will be determined by condition of the existing piles when construction is happening. Total new piles should not exceed 150 across both phases.

The proposed project will be implemented in phases over several years according to the availability of project funding and in order to reduce the impact on in place businesses. The current phased schedule will take place over approximately three years and will require coordination with HCDA's repair project at Fisherman's Wharf and future landside improvements.

Full build out of the project is dependent on the future availability of funding.

HRS 343 COMPLIANCE

2011 FEIS

HCDA commissioned Helbert Haster & Fee Planners (now known as “HHF Planners”) to complete an EIS in support of the repairs project prior to leasing the project to Kewalo Harbor, LLC. The Final EIS (“FEIS”) (accepted by the Governor’s office April, 23rd 2011) disclosed the anticipated environmental impacts of the proposal to undertake repairs and improvements at Kewalo Basin Harbor. The trigger requiring the EIS to be completed was the proposed use of State lands and funds.

The improvements proposed in the FEIS involved the demolition and removal of all existing submerged structures including Docks A, B, C, D, “Herringbone Dock”, the Front Row (Mauka Wharf) commercial vessel slips adjacent to Ala Moana Boulevard, and the Makai Wharf Slips. Docks A, B, and C would be replaced with longer docks, the Herringbone Dock would not be replaced. The front Row slips along Ala Moana Boulevard would be reconstructed and a longitudinal berth provided adjacent to the Makai Wharf. At full buildout, the number of slips at Kewalo Basin would increase from the current 143 to 250. The proposed action also included modernization of the potable water and electrical systems serving the slips, a new fire suppression system, new sewage pump out, and a dedicated fueling dock. The proposed action would provide safety upgrades and modernized amenities for boaters, increase the availability of harbor facilities for the public, improve operational efficiencies within the basin, and better integrate the berthing and mooring facilities with shore-side utilities and infrastructure.

The following is a list of consulted parties who were consulted during the assessment process. The group consisted of agencies, citizen groups and individuals.

1. Federal
 - a. U.S. Army Corps of Engineers
 - b. U.S. Department of Commerce, NOAA National Marine Fisheries Service
2. State
 - a. Department of Land and Natural Resources, Office of Conservation and Coastal Lands
 - b. Department of Business, Economic, Development and Tourism, Office of Planning
 - c. Department of Business, Economic, Development and Tourism, Land Use Commission
3. City
 - a. Department of Planning and Permitting
4. Other
 - a. Kewalo Basin Stakeholder Advisory Group

The following is a list of parties who received an Environmental Impact Statement Preparation Notice (EISP) with a request for comments on the project. The public comment period ran

from April 8, 2010 through May 8, 2010. The group consisted of agencies, organizations, public utilities and elected officials. Those who formally replied with written comment to the EISPN are indicated with a ✓, and those comments can be found in the FEIS.

1. Federal

- a. ✓U.S. Army Corps of Engineers, Honolulu District
- b. ✓U.S. Department of Commerce, NOAA National Marine Fisheries Service
- c. ✓NOAA Pacific Island Fisheries Science Center
- d. U.S. Fish and Wildlife Service
- e. U.S. Coast Guard
- f. U.S. Environmental Protection Agency

2. State

- a. Department of Business, Economic, Development and Tourism (DEBDT)
- b. DBEDT, Office of Planning
- c. Department of Health
- d. ✓Department of Land and Natural Resources
- e. DLNR Historic Preservation Division
- f. ✓Department of Public Safety
- g. ✓Department of Transportation
- h. ✓Office of Hawaiian Affairs
- i. ✓University of Hawaii
- j. University of Hawaii Environmental Center

3. City

- a. ✓Board of Water Supply
- b. ✓Department of Design and Construction
- c. Department of Environmental Services
- d. Department of Facility Maintenance
- e. Department of Planning and Permitting
- f. ✓Department of Parks and Recreation
- g. ✓Department of Transportation Services
- h. ✓Fire Department
- i. ✓Police Department

4. Elected Officials

- a. State Senator Brickwood Galuteria, Senate District #12
- b. State Representative Tom Brower, House of Representatives District #23
- c. Councilmember Charles Djou
- d. Councilmember Rod Tam
- e. Ala Moana/Kakaako Neighborhood Board No. 11

5. Utility Companies

- a. HECO
- b. ✓Hawaiian Telecom

6. Citizen Groups, Individuals, and Consulted Parties

- a. Almar Management
- b. Friends of Kewalo Basin Park Association

- c. Honolulu Marine, Inc.
- d. Kakaako Improvement Association
- e. Kakaako Makai Community Planning Advisory Council
- f. Kamehameha Schools
- g. Kewalo Basin Stakeholder Advisory Group
- h. ✓Reg White
- i. ✓Hawaii Longline Association
- j. Kewalo Keiki Fishing Conservancy
- k. Kewalo Wharf, LLC
- l. Ocean Investments, LLC

LOADING DOCK EXEMPTION

The current scope of work anticipates demolishing the dilapidated decking at the Makai Loading Dock and replacing in kind. At the time of the FEIS the advanced state of deterioration of the structure was not known and, therefore, the scope of work was not explicitly included in the study. Due to the nature of this repair, the project team will be moving forward with a HRS 343 exemption prior to the start of this scope. This effort will mirror the process recently completed for the proposed Fisherman's Wharf repair work.

PERMITTING REQUIREMENTS AND STATUS

The following is a list of permits and approvals, with status notes, required for the proposed development:

1. Department of the Army – Section 10 Rivers and Harbors Act (for structures in navigable waters of the U.S.)
 - a. The Letter of Permission (LOP) issued by the US Army Corps of Engineers (USACE) for the project, which was adopted by the applicant from the HCDA, has been extended and modified to match the current proposed scope of work, excluding the fueling facility. A copy of the original LOP and the recent modification letter is attached (Exhibit B) to this application.
 - b. Consultations with the USACE are continuing to permit the fueling facility. The applicant will likely pursue a separate LOP for this work. This permit will cover the installation of the fuel tanks and dispensing equipment; all other proposed improvements have been approved via the modification mentioned above.
2. State of Hawaii Office of Planning – Special Management Area (SMA) Use Permit
 - a. The SMA Permit issued by the Office of Planning, which was inherited by the applicant from the HCDA, has been extended. This permit did not include the scope of work associated with the proposed fueling facility or re-decking of the Makai Loading Dock. The original permit and extension letter are attached (Exhibit C) to this application.
 - b. The applicant continues to consult with the Office of Planning to permit the fueling facility and it is likely an SMA Permit will be required for this scope. This permit will cover the installation of the fuel tanks, dispensing equipment and re-

decking of the Makai Loading Dock; all other proposed improvements have been approved via the modification mentioned above.

3. State of Hawaii Department of Land and Natural Resources (DLNR) – Conservation District Use Permit (“CDUP”)
 - a. The CDUP from the DLNR, which was inherited by the applicant from the HCDA, has been extended. This permit did not include the scope of work associated with the proposed fueling facility. On behalf of the applicant HHF Planners confirmed with the DLNR that the area where the proposed fueling improvements will be located is outside the Conservation District boundaries and is out of the jurisdiction of the DLNR. The original permit, extension and boundary determination letter are attached (Exhibit D) to this application.
4. State of Hawaii Department of Health
 - a. Section 401 Water Quality Certification (WQC)
 - i. When the USACE LOP was issued, it was the stance of the USACE that a WQC was not needed for projects that did not involve dredging or filling and, therefore, a 401 WQC from the DOH was not a requirement for the issuance of the USACE LOP.
 - ii. The USACE will make a determination on whether a 401 WQC will be a requirement for the additional scope of work for fueling facility as discussed in 1.b. above. If the USACE determines that no 401 WQC is needed, the DOH would then review and either concur or disagree.
 - iii. A letter of correspondence between HHF Planners and Mr. Edward Chen at the DOH regarding the matter has been attached (Exhibit E) to this application.
 - b. Fuel tank installation and operations permits (Fueling Facility Only)
 - i. This has not yet been obtained and will be the requirement of the design and construction team to procure prior to starting construction.
 - c. Construction noise permits
 - i. This has not yet been obtained and will be the requirement of the design and construction team to procure prior to starting construction
5. City and County of Honolulu – Board of Water Supply (BWS) Water Connection and Department of Planning and Permitting Sewer Connection and Building Permits
 - a. These have not yet been obtained and will be the requirement of the design and construction team to procure prior to starting construction.
6. Hawaiian Electric Company – Electrical Permit
 - a. This has not yet been obtained and will be the requirement of the design and construction team to procure prior to starting construction

FUELING FACILITY BMPs DURING CONSTRUCTION AND OPERATION

The construction and operation of a dedicated fueling dock will provide safety and environmental protection upgrades and modernized amenities for the harbor. The following sections were taken from the draft SMA Application and are included to address these installation and operational plans in a consistent manner between agencies. It should be noted that Coffman Engineers (project engineers) and Almar Management (harbor third party

manager) will work together to create the SPCC Plan mentioned in item two under “Operation Period” BMPs, that complies with all EPA guidelines. The SPCC Plan will be completed and in place prior to construction being completed on the fueling system.

Fuel Equipment Spill Mitigation

Standard marine-grade fuel tank and equipment specifications will reduce the risk of releases into the waters of Kewalo Basin. These specifications include: double walled construction of tanks and pipes, monitoring of fluids in the interstitial space between the tank or pipe walls, tank inspection ports, automatic and manual flow cut off at the tanks as well as at the pumphead, tank overflow protection, use of corrosion resistant materials, periodic inspections, meter reconciliation, automatic leak detectors and alarms, and operational practices (e.g., secured access, no nighttime operations, assisted pumping).

Best Management Practices and Mitigation Measures

During the construction period, carefully designed industry-standard BMPs will be employed to mitigate adverse effects on marine resources and the environment. The identified best management practices will help reduce the likelihood and the potential impact in the event of a spill or release from fueling and fuel storage.

The work will occur during daylight hours to minimize potential noise and light pollution impacts associated with nighttime work. Project activities shall comply with the Administrative Rules of the DOH (Chapter 11-46 Community Noise Control).

Specific BMPs and mitigation measures are listed below.

Construction Period

1. Develop and implement a plan to prevent construction debris from entering or remaining in the marine environment during the project.
2. Minimize turbidity and siltation from upland construction-related activities (e.g., staging and transportation of equipment to the in-water work sites) through use of modern designs that promote infiltration and natural processes to the extent practicable.
3. Fueling of construction project-related terrestrial vehicles and equipment will take place at least 50 feet away from the water, preferably over an impervious surface and spill prevention booms will be available to contain any potential spills. Any fuel spilled will be cleaned up immediately.

Operational Period

1. Standard erosion control and storm water management measures will be implemented through the use of silt fence and/or soil erosion barriers.
2. Operation of the completed facility will follow the requirements of a site specific Spill Prevention Control and Countermeasures Plan (SPCC) as required by the EPA (40 CFR 112.3).
3. Fueling operations will be supervised by an on-site operator.

4. Employees will be trained and a plan will be implemented to regularly retrain employees in order to reinforce the use and adherence of BMPs.
5. A contingency plan will be in place for the removal and adequate securing of equipment in the event of approaching storms.
6. Regular inspections will be conducted of above ground fuel storage tanks and associated piping for leaks.
7. Routine inspections and repair of the fuel transfer equipment will occur, e.g., hoses and pipes.
8. A contingency plan will be implemented to control and contain spills of potential contaminants, including petroleum products (both on land and into marine waters).
9. Placement of plastic or nonferrous drop trays, lined with oil absorbent materials, beneath the fuel connections will occur. A drip pan under portable fuel tanks will be used.
10. Placement of spill containment and control materials in a marked and accessible location that is attached or adjacent to the fuel dock will occur. A general rule of thumb indicates that there should be an oil absorbent boom three times as long as the length of the longest vessel that will utilize the facility.

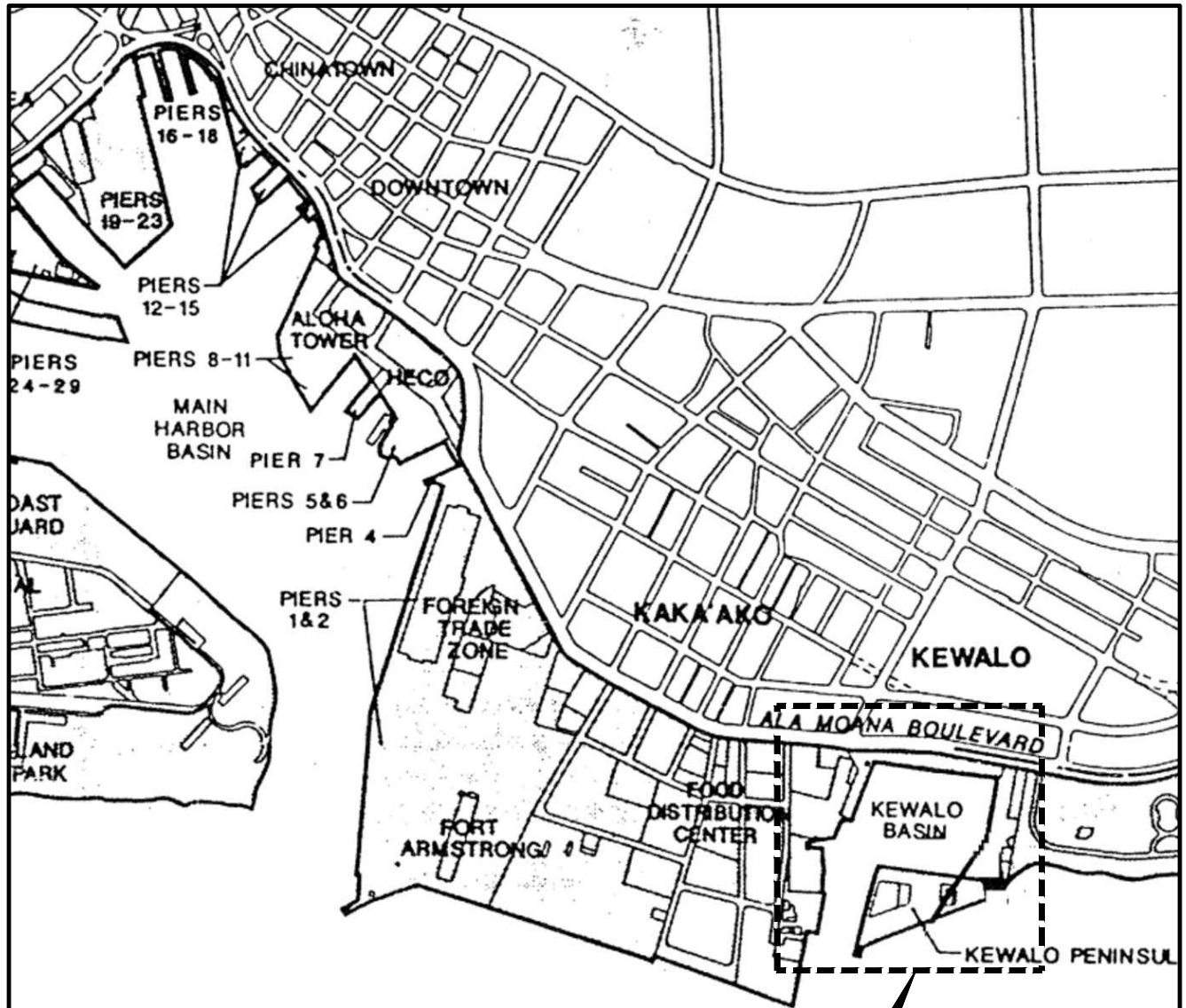
Existing protocol employed when a potential pollutant is discovered in Harbor waters

1. In the event of an actual spill, cleanup efforts should take precedence over normal work and begin immediately. Cleanup should be completed as soon as possible and includes the proper disposal of any spilled material and used cleanup material.
2. The harbor master is notified, and if the source is clearly visible (e.g., a boater working on a vessel putting particulates into the water or a vessel is discharging oily bilge water), the harbor master stops the action, informs the party of the harbor rules, and issues a warning letter.
3. Any fuel or oil discharges are reported to the U.S. Coast Guard (USCG) Sector Honolulu, who then informs the National Response Center (NRC). The USCG Sector Honolulu physically investigates significant incidents.
4. The tenant is tasked with the cleanup, with assistance from the harbor master, if needed. Clean up actions include using oil absorbing mats in the water, if deemed beneficial. The harbor manager is acquiring spill response materials such as oil absorbent booms for use in the event of larger spills or discharges.
5. If the source is not identifiable, the harbor master records the event in its incident log, and may complete a site investigation sheet in accordance with the NPDES Storm Water Management Program Plan for Kewalo Basin Harbor.

Fire Suppression

The existing piers do not have a dedicated or separate water system for firefighting; however, fire suppression service will be provided at the new and replacement piers. The entire harbor will be outfitted with a dry standpipe system and fire extinguishers. A new dry standpipe will be located approximately 30 feet from the fuel tanks, and approximately ten feet from the fuel dispenser. There are no known source upgrades or additions to the water transmission system required for the project's fire suppression improvements.

SLIP MIX		
1/20/2016 100% DD Drawings		
Slip Length (ft)	Existing	Proposed
30	0	34
35	0	0
40	14	15
45	0	26
50	39	49
55	0	0
60	26	14
65	0	0
70	26	37
75	0	0
80	17	18
85	0	0
90	5	4
95	0	0
100	10	11
150	6	4
200	1	2
Total	144	214

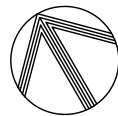


DESCRIPTION:

1. VERTICAL DATUM: LOCAL MLLW = 0 FEET
2. LATITUDE: 21° 17' 35" N
LONGITUDE: 157° 51' 25" W
3. ADJACENT PROPERTIES: FOR LIST OF CURRENT TENANTS,
SEE PROJECT DESCRIPTION DOCUMENT(ATTACHED)

KEWALO HARBOR

VICINITY MAP
SCALE: NOT TO SCALE



NORTH

COFFMAN
ENGINEERS

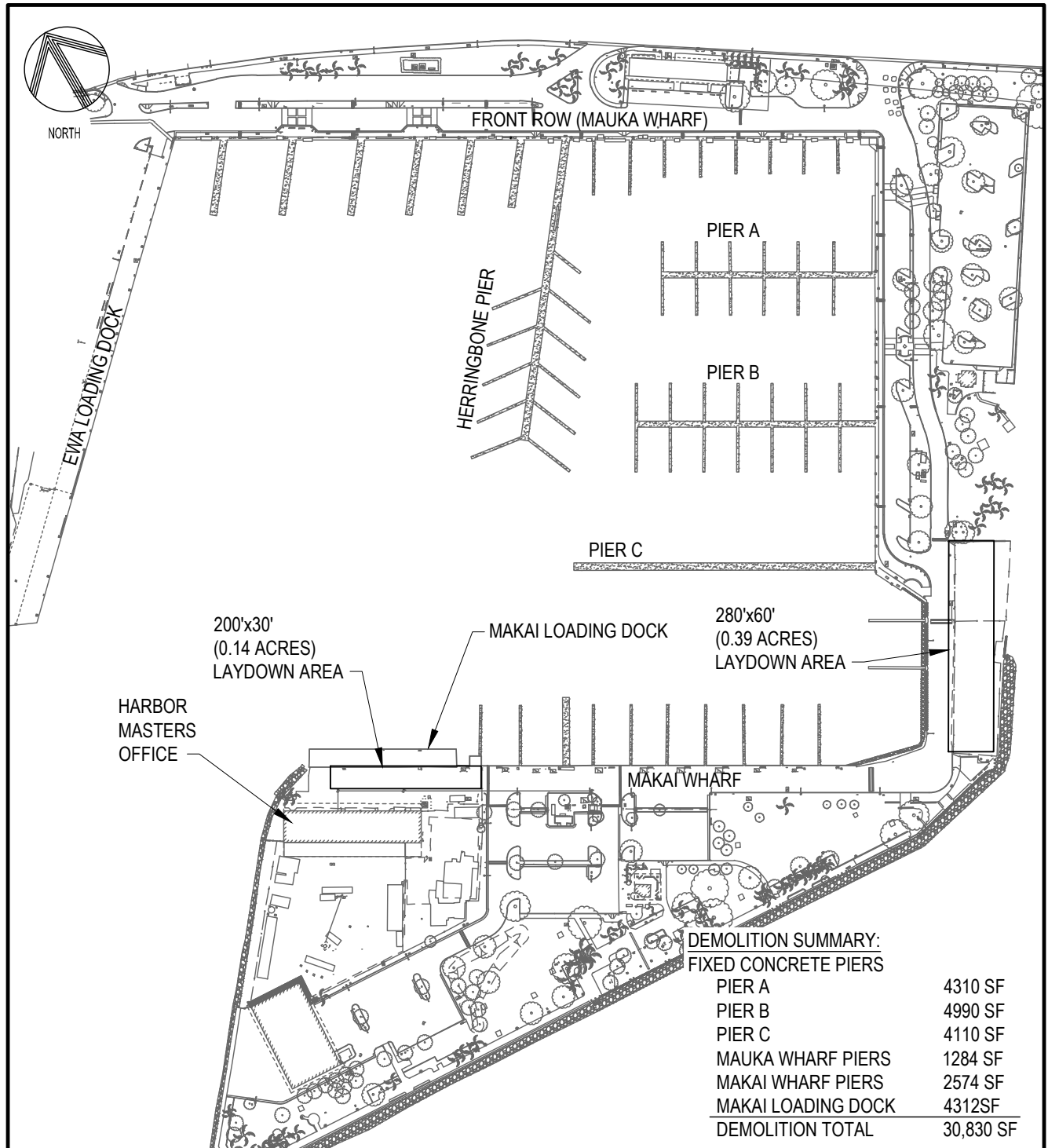
851 FORT STREET, SUITE 200, HONOLULU, HI 96813
PH 808.687.8884 | FAX 808.687.8883
COFFMAN.COM
LASTING

KEWALO BASIN HARBOR IMPROVEMENTS

IN: KEWALO BASIN, OAHU, HI.
NEAR: KAKA'AKO DEVELOPMENT DISTRICT
APPLICATION BY:
KEWALO HARBOR DEVELOPMENT COMPANY, LLC
1240 ALA MOANA BLVD., SUITE 200
HONOLULU, HI 96814

SHEET 1 OF 8

DATE: NOV 6, 2015



EXISTING SITE PLAN

SCALE: 1"=200'

0 100 200
1"=200'

KEWALO BASIN HARBOR IMPROVEMENTS

IN: KEWALO BASIN, OAHU, HI.

NEAR: KAKA'AKO DEVELOPMENT DISTRICT

APPLICATION BY:

KEWALO HARBOR DEVELOPMENT COMPANY, LLC

1240 ALA MOANA BLVD., SUITE 200

HONOLULU, HI 96814

SHEET 2 OF 8

DATE: NOV 6, 2015

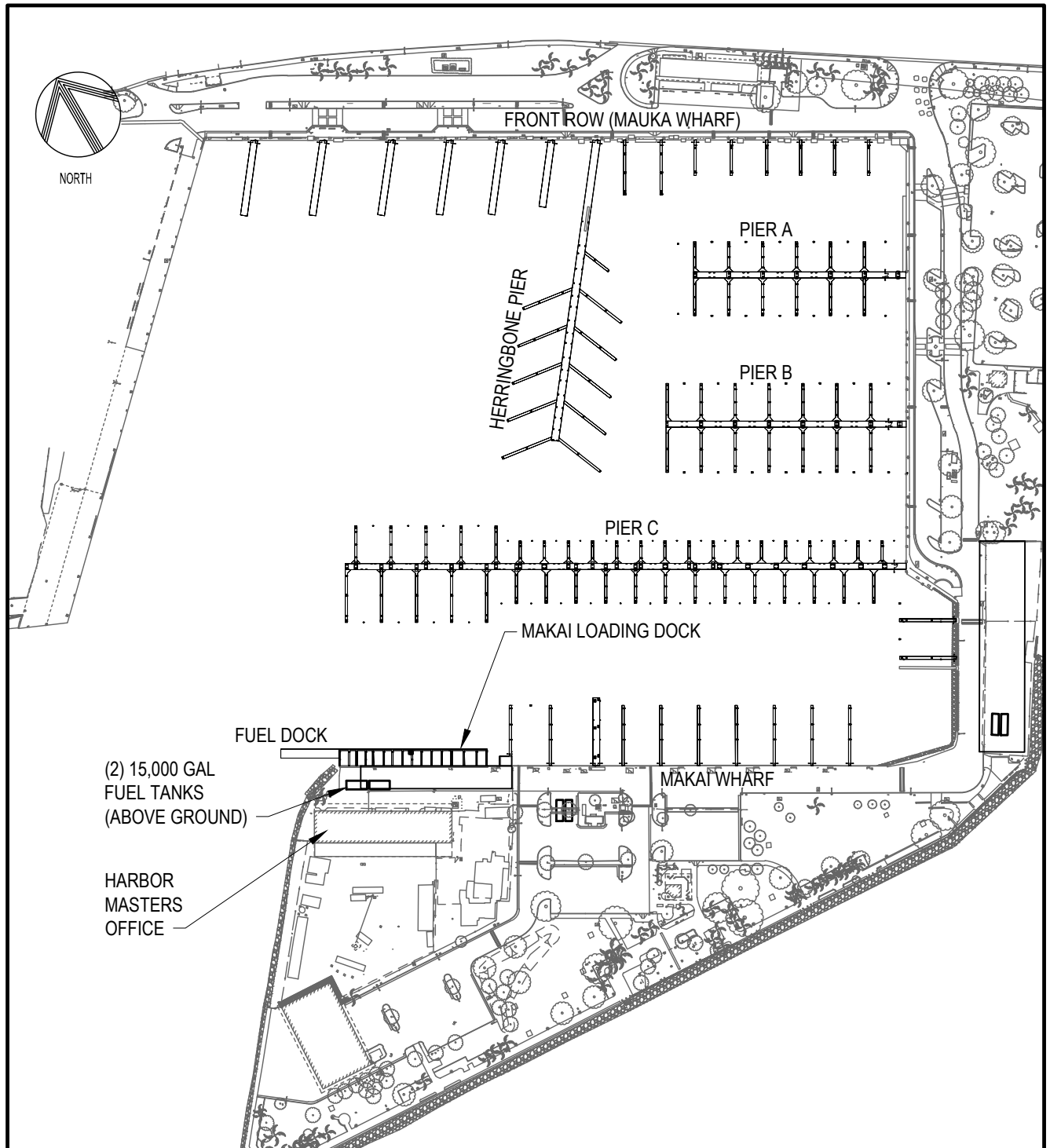


851 FORT STREET, SUITE 200, HONOLULU, HI 96814

ph 808.687.8884 | fax 808.687.8883

coffman.com

LASTING



PROPOSED SITE PLAN

SCALE: 1"=200'

0 100 200
1"=200'



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coffman.com
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KEWALO BASIN HARBOR IMPROVEMENTS

IN: KEWALO BASIN, OAHU, HI.

NEAR: KAKA'AKO DEVELOPMENT DISTRICT

APPLICATION BY:

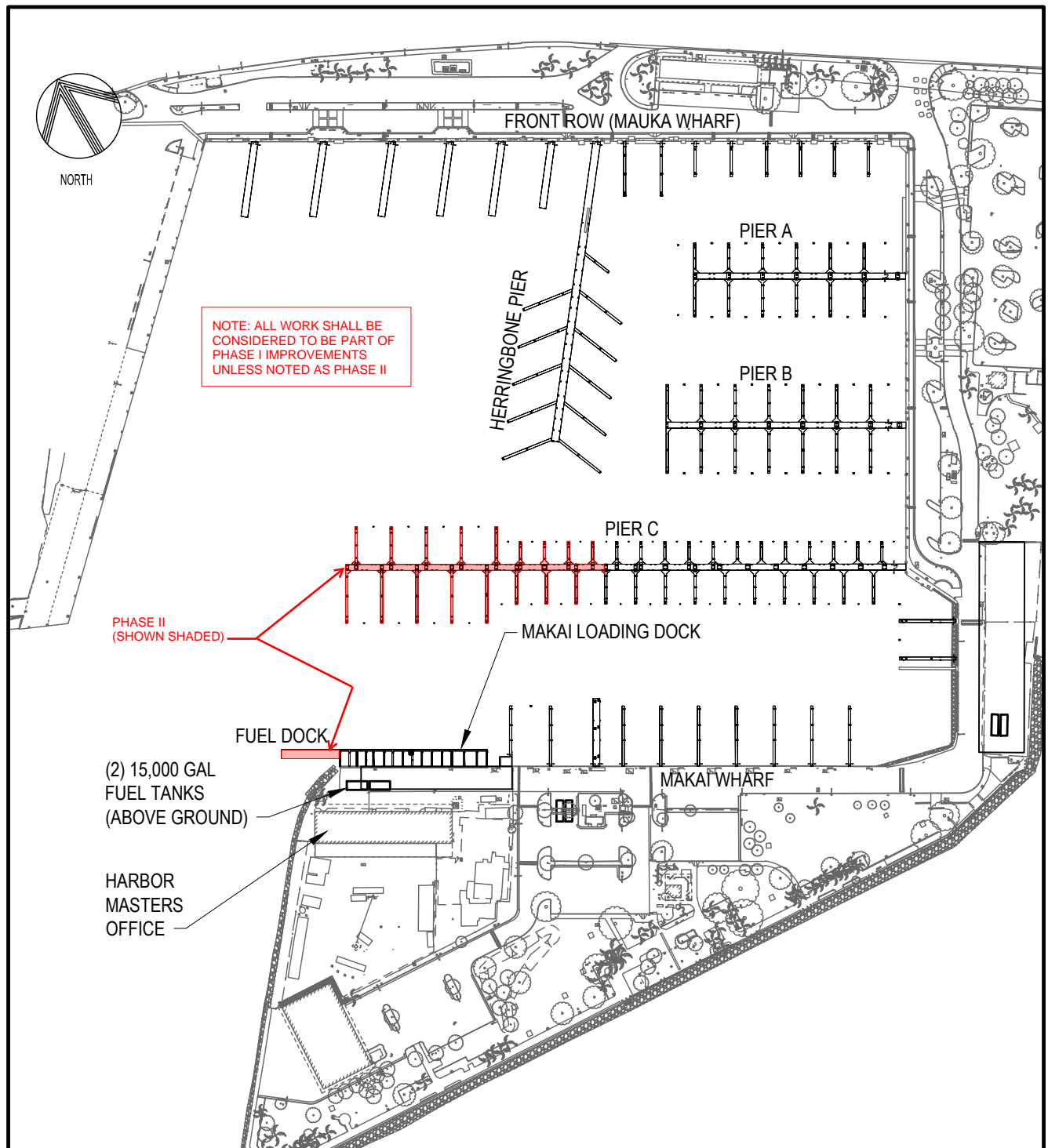
KEWALO HARBOR DEVELOPMENT COMPANY, LLC

1240 ALA MOANA BLVD., SUITE 200

HONOLULU, HI 96814

SHEET 3 OF 8

DATE: NOV 6, 2015



PROPOSED SITE PLAN

SCALE: 1"=200'

0 100 200
1"=200'



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ph 808.687.8884 | fax 808.687.8883
coffman.com
LASTING

KEWALO BASIN HARBOR IMPROVEMENTS

IN: KEWALO BASIN, OAHU, HI.

NEAR: KAKA'AKO DEVELOPMENT DISTRICT

APPLICATION BY:

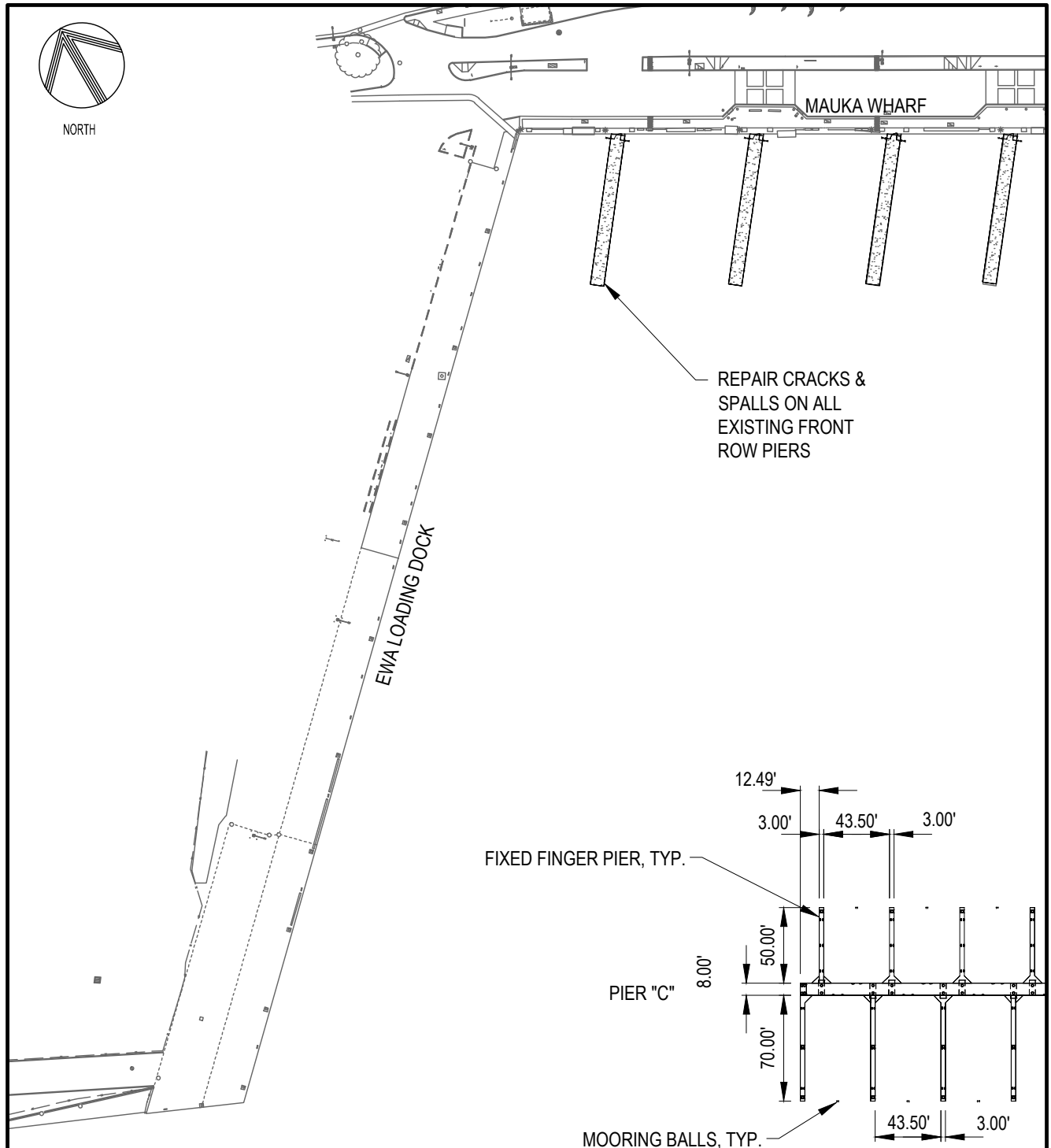
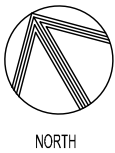
KEWALO HARBOR DEVELOPMENT COMPANY, LLC

1240 ALA MOANA BLVD., SUITE 200

HONOLULU, HI 96814

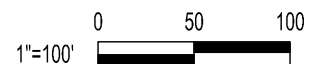
SHEET 3 OF 8

DATE: NOV 6, 2015



PARTIAL PROPOSED SITE PLAN NORTHWEST

SCALE: 1"=100'



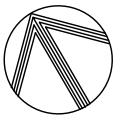
851 FORT STREET, SUITE 200, HONOLULU, HI 96813
ph 808.687.8884 | fax 808.687.8883
coffman.com
LASTING

KEWALO BASIN HARBOR IMPROVEMENTS

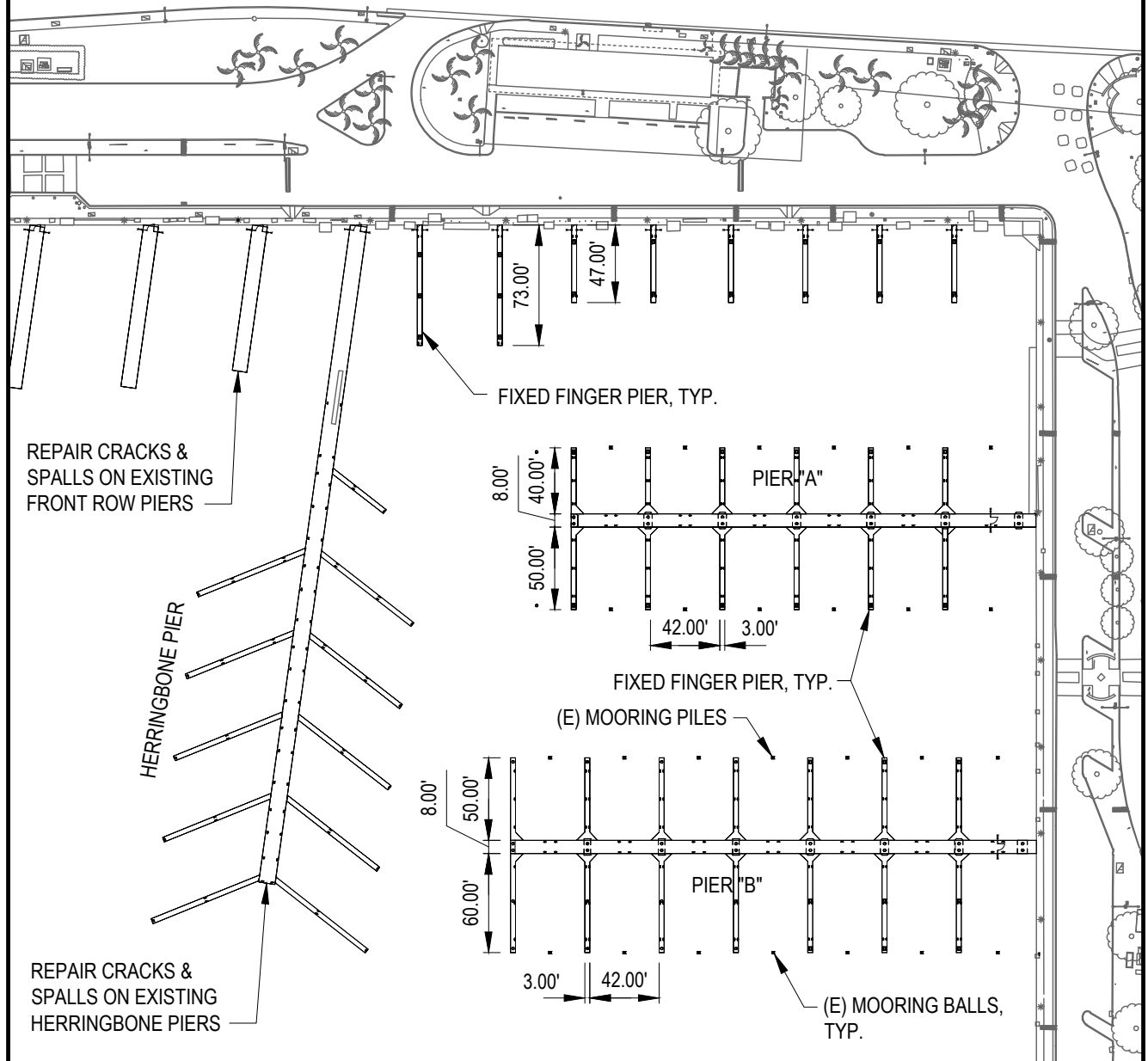
IN: KEWALO BASIN, OAHU, HI.
NEAR: KAKA'AKO DEVELOPMENT DISTRICT
APPLICATION BY:
KEWALO HARBOR DEVELOPMENT COMPANY, LLC
1240 ALA MOANA BLVD., SUITE 200
HONOLULU, HI 96814

SHEET 5 OF 8

DATE: NOV 6, 2015

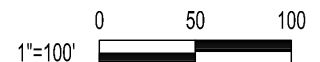


NORTH



PARTIAL PROPOSED SITE PLAN NORTHEAST

SCALE: 1"=100'



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LASTING

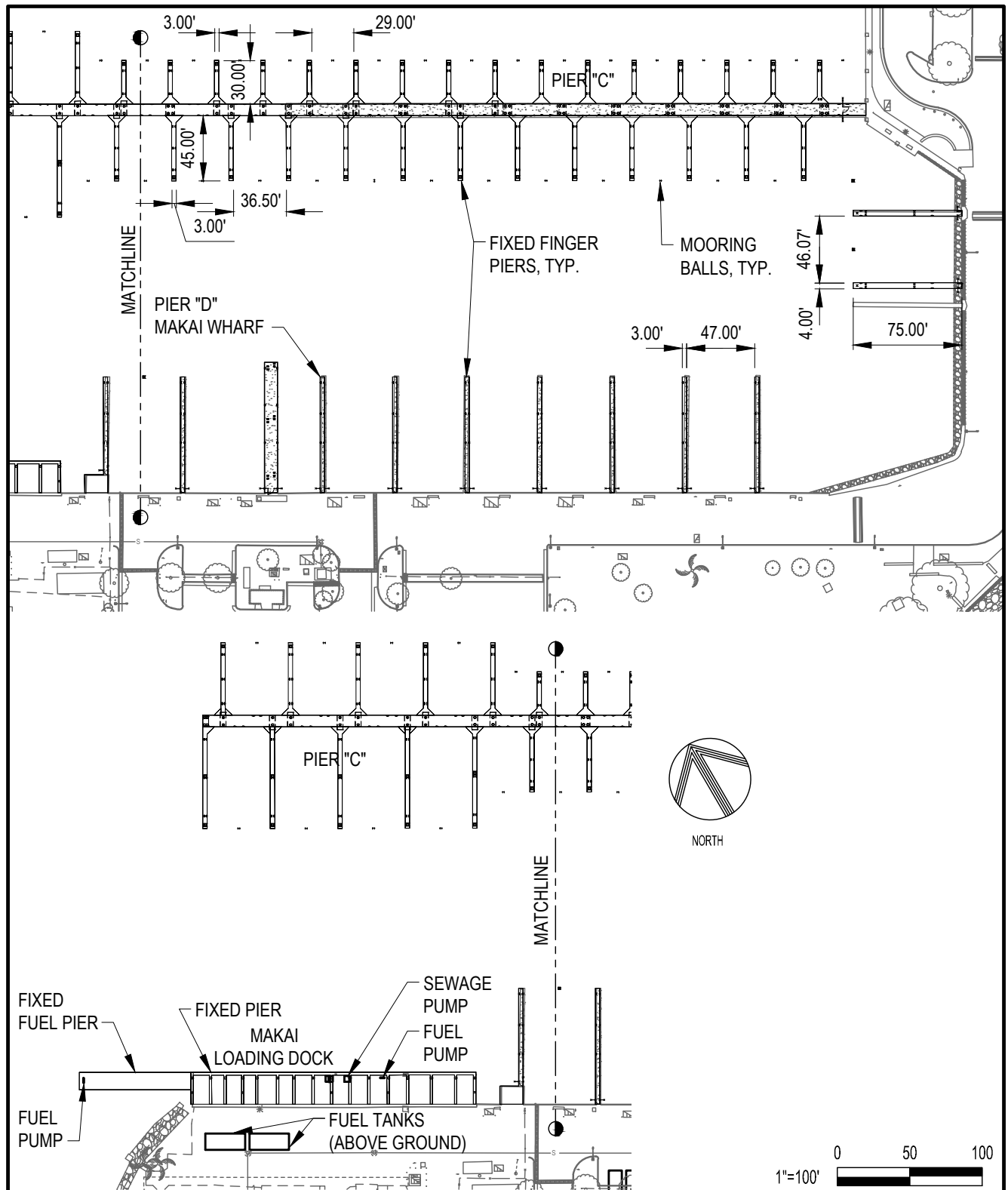
KEWALO BASIN HARBOR IMPROVEMENTS

IN: KEWALO BASIN, OAHU, HI.
NEAR: KAKA'AKO DEVELOPMENT DISTRICT
APPLICATION BY:

KEWALO HARBOR DEVELOPMENT COMPANY, LLC
1240 ALA MOANA BLVD., SUITE 200
HONOLULU, HI 96814

SHEET 6 OF 8

DATE: NOV 6, 2015



PARTIAL PROPOSED SITE PLAN SOUTHEAST

SCALE: 1"=100'



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 COFFMAN.COM
 LASTING

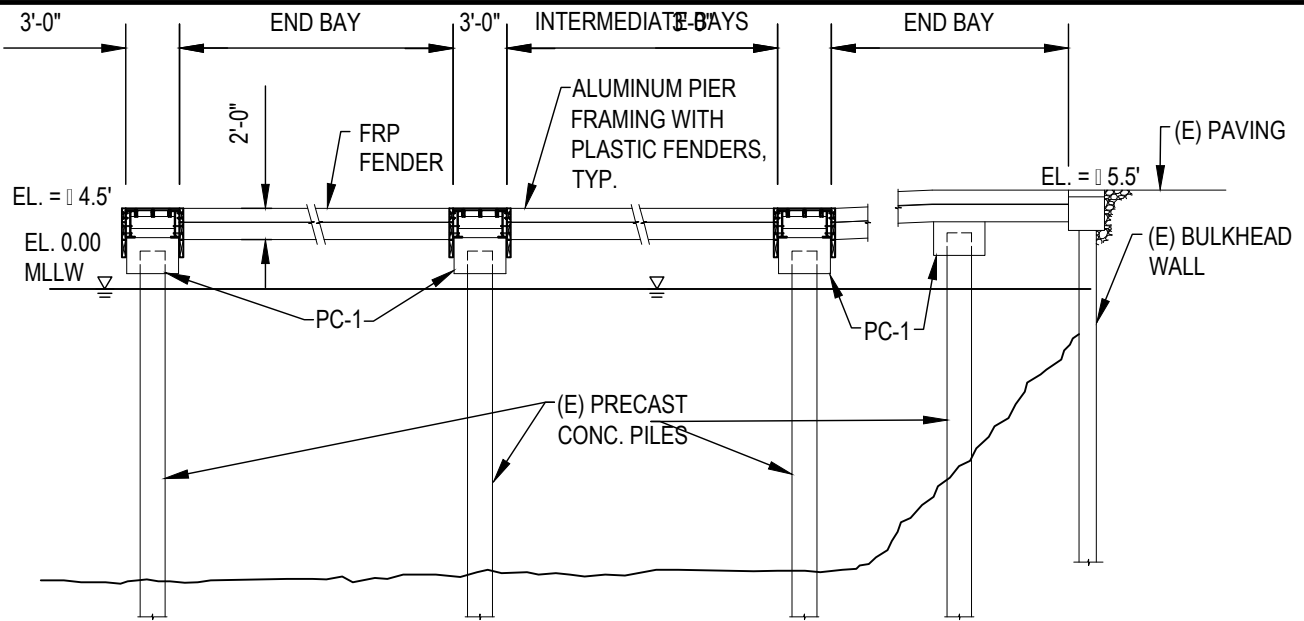
KEWALO BASIN HARBOR IMPROVEMENTS

IN: KEWALO BASIN, OAHU, HI.
 NEAR: KAKA'AKO DEVELOPMENT DISTRICT
 APPLICATION BY:

KEWALO HARBOR DEVELOPMENT COMPANY, LLC
 1240 ALA MOANA BLVD., SUITE 200
 HONOLULU, HI 96814

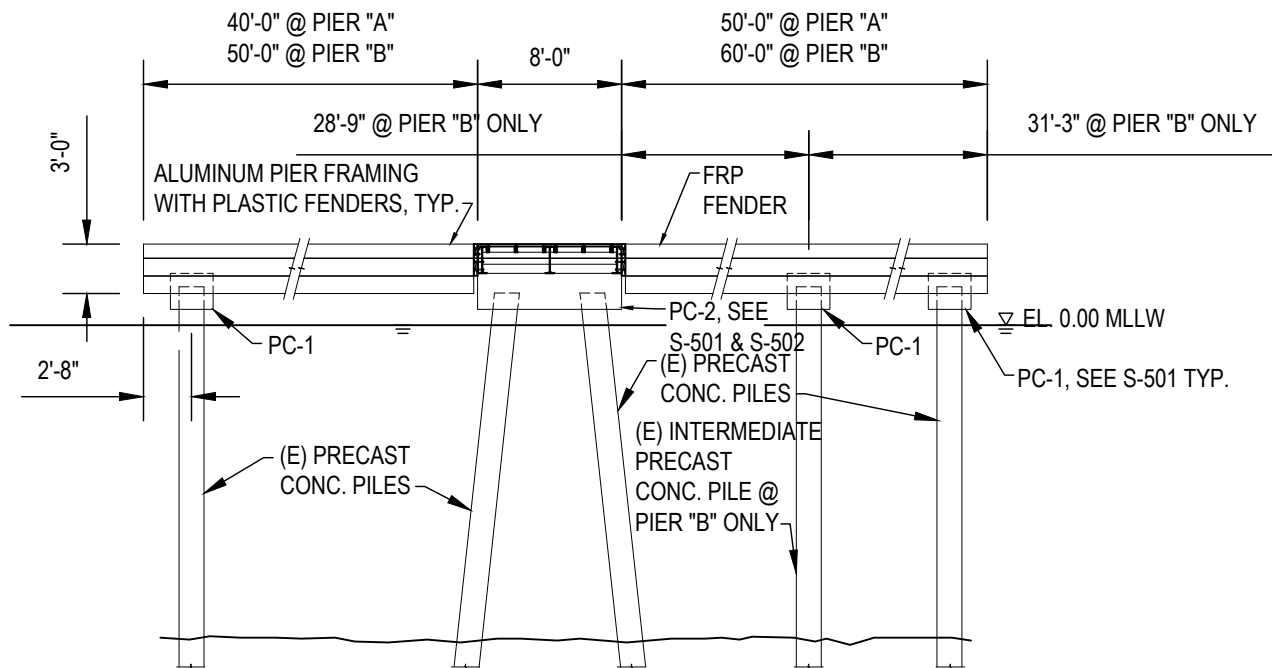
SHEET 7 OF 8

DATE: NOV 6, 2015



TYP. FIXED FINGER PIER

SCALE: 3/32" = 1'-0"



TYP. FIXED MAIN PIER

SCALE: 3/32" = 1'-0"

KEWALO BASIN HARBOR IMPROVEMENTS

IN: KEWALO BASIN, OAHU, HI.
NEAR: KAKA'AKO DEVELOPMENT DISTRICT
APPLICATION BY:

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1240 ALA MOANA BLVD., SUITE 200
HONOLULU, HI 96814

SHEET 8 OF 8

DATE: NOV 6, 2015



851 FORT STREET, SUITE 200, HONOLULU, HI 96813
ph 808.687.8884 | fax 808.687.8883
coffman.com
LASTING



REPLY TO
ATTENTION OF:

Regulatory Branch
Engineering and Construction Division

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, HONOLULU DISTRICT
FORT SHAFTER, HAWAII 96858-5440

January 18, 2012

14796
RECEIVED

2012 JAN 20 PM 12 24

DEVELOPMENT
AUTHORITY

LETTER OF PERMISSION
File No. POH-2009-00303

Mr. Anthony J.H. Ching
Hawaii Community Development Authority
461 Cooke Street
Honolulu, Hawaii 96813

Dear Mr. Ching:

I have completed the review of your Department of the Army (DA) permit application to perform modifications of the Kewalo Basin Marina located adjacent to the intersection of Ala Moana Boulevard and Ward Avenue, City and County of Honolulu, Island of Oahu, Hawaii. The purpose of the upgrade is to facilitate the current and future uses of the Kewalo Basin for commercial fishing, tour, charter and pleasure craft operations, while maintaining a financially viable harbor as a commercial and community resource for the State. Based on this review, I have determined that the project would not involve any discharge of dredged or fill material into waters of the United States.

I have determined that your proposed activity involves work in or affecting the course, condition, location or capacity of navigable waters of the United States and that it may be authorized by a Letter of Permission pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403). I have coordinated your request with interested agencies and hereby provide this approval.

The following work is authorized:

Increase the number of slips from 143 to 250. Completely remove all existing docks and pilings and replace as follows: replacement of Docks A, B, and C with longer docks to compensate for removal of the Herringbone Dock D; reconstruction of the Front Row (Mauka Wharf) slips with reconfigured lengths and widths to optimize their usability and the capacity of the harbor; construction of a longitudinal berth adjacent to the Makai Wharf; construction of two new finger docks for small to medium sized commercial vessels extending from the Fisherman's Wharf loading dock; construction of a single jetty dock at the makai end of the Fisherman's Wharf loading dock; and construction of a dedicated marine maintenance dock adjacent to the current Honolulu Marine Inc. shipyard facility.

Construction phases include the following: demolition and disposal of existing concrete infrastructure, including extraction of piles from the seabed; creation of an upland storage and staging area (anticipated to be on the 'ewa side of the harbor); for fixed docks, construction would involve pile driving for installation of the support piles, forming and pouring cast-in-place reinforced concrete pile caps, installation of the precast deck panels, and placement of a topping concrete deck pour; for floating docks, construction would involve assembly of float modules and pile driving to install the guide piles that secure the floats in place; and installation of topside appurtenances (fenders, cleats, dock boxes, utilities, etc.).

Demolition of each dock would take approximately one month and would be conducted from the waterside by a barge-mounted crane. Installation of the new docks would take approximately one to two months, depending upon whether the structure is floating or fixed. Approximately 400 piles will be removed. Pile driving within the harbor will be conducted using a barge-mounted diesel or hydraulic impact hammer. **Use of a Vibratory Hammer is not authorized on this project.** Due to the size of the harbor, only one barge, demolition or pile driving, would be in use at any one time. A maximum of 500 piles will be driven. Demolition debris will not be allowed to enter the harbor.

All work must be performed in accordance with the attached drawings. In order for you to proceed under this authorization, your activity must comply with the enclosed General and Special Conditions.

You must implement and abide by the "Best Management Practices for Compliance with the Endangered Species Act (January 2012)" required by the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS) Protected Resources Division (PRD) and provided in Attachment 1 of this permit. Failure to comply with the conditions in that document constitutes non-compliance with the Endangered Species Act and your Corps permit. NMFS is the appropriate authority to determine compliance with the conditions in that document and with the Endangered Species Act.

You must also implement the "U.S. Fish and Wildlife Service Recommended Standard Best Management Practices POH 2009-00303 (January 2012)" provided in Attachment 2 of this permit, and the "NOAA NMFS HCD Best Management Practices for Kewalo Harbor Basin Improvements (POH-2009-00303) (January 2012)" provided in Attachment 3 of this permit. Failure to comply with the conditions in those documents constitutes non-compliance with your Corps permit. The U.S. Fish and Wildlife Service and NMFS are the appropriate authorities for determining compliance with the conditions in those documents.

The work must also comply with conditions of the Hawaii Coastal Zone Management (CZM) consistency concurrence issued to you by the State of Hawaii Department of Business, Economic Development & Tourism office by letter dated December 20, 2011. Any material changes in the location or plans of the work herein authorized must be submitted to the District Engineer prior to commencement of work. As required by law, you must obtain written approval of the Department of the Army before proceeding with any work that differs materially from the authorized work.

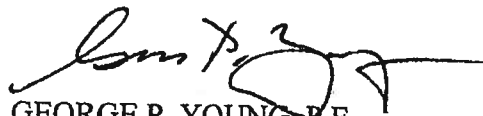
Attached to this letter is a document titled "Notification of Administrative Appeals Options and Process and Request for Appeal", which outlines your options regarding this Letter of Permission. If you accept the permit, you may start the authorized work. Starting work is considered your specific agreement to all terms and conditions of the permit. If you accept the permit you do not need to sign or submit the appeals form. If you object to the permit because of certain terms and conditions it imposes, you may request that the permit be modified. If you elect to object to the permit, you must complete and return the appeals form to the district engineer. The appeals form must be received by the district engineer within 60 days of the date of this letter, or you will forfeit your right to appeal the permit in the future.

Thank you for your cooperation with our regulatory program. Please be advised you can provide comments on your experience with the Honolulu District Regulatory Branch by accessing our web-based customer survey form at <http://per2.nwp.usace.army.mil/survey.html>.

If you have questions regarding this authorization, please call Mr. Robert Deroche of my staff at (808) 438-2039 or by email at robert.d.deroche2@usace.army.mil and refer to File No. POH-2009-00303 on all future inquiries regarding this project.

Thank you for working with the U.S. Army Corps of Engineers to protect the aquatic resources of Hawaii.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:



GEORGE P. YOUNG, P.E.
Chief, Regulatory Branch

For and on behalf of District Commander
Douglas B. Guttormsen
Lieutenant Colonel, U.S. Army
District Engineer

Enclosures

General Conditions:

1. The time limit for completing the work authorized ends on **December 31, 2015**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the following space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFeree)

(DATE)

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

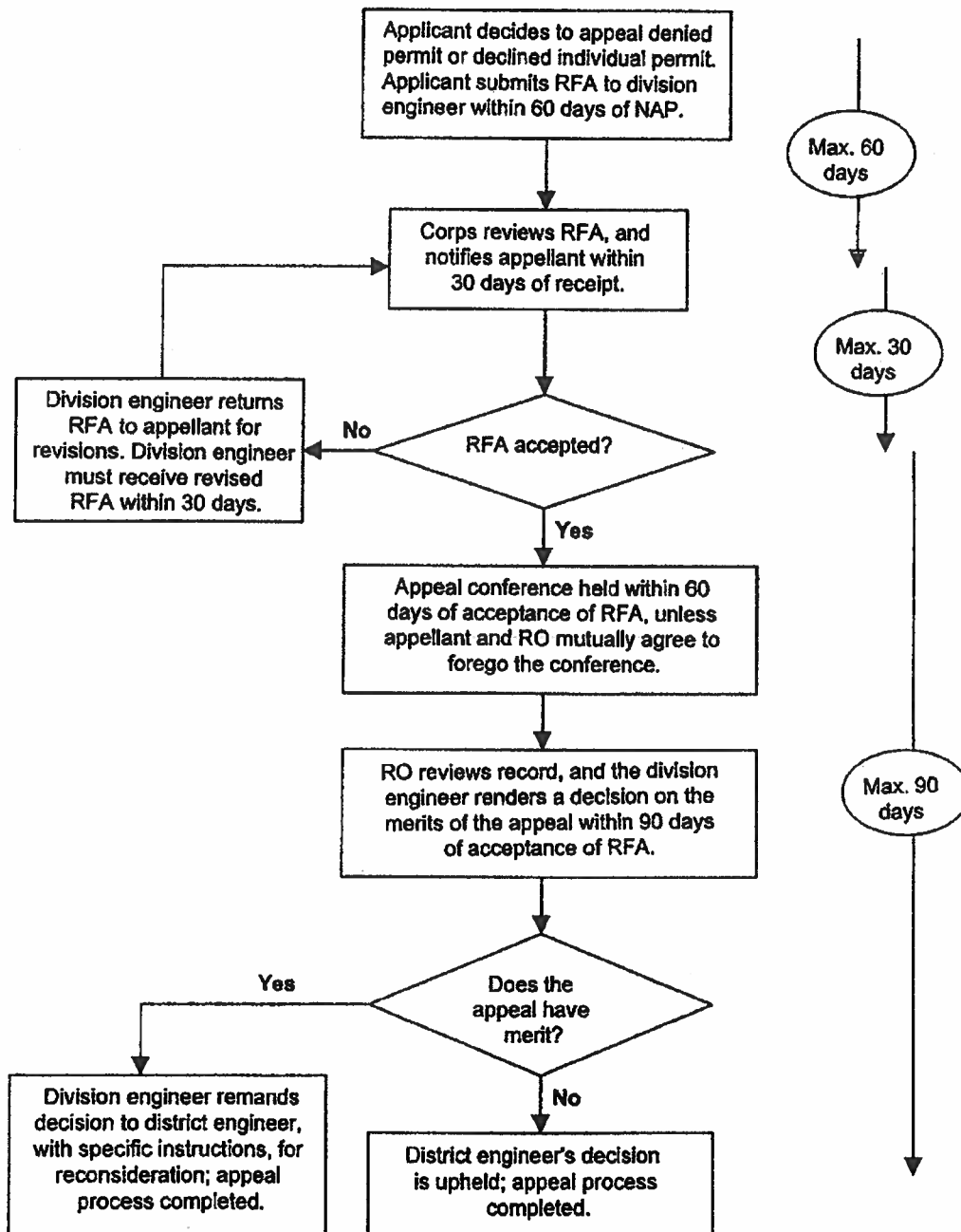
1. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.
2. No sidcasting is authorized. This Letter of Permission does not authorize any dredging or any discharge of dredged or fill material, including sidcasting, into waters of the United States, including wetlands. You may not stockpile materials in any waters of the United States.

Further Information:

1. **Congressional Authorities:** You have been so authorized to undertake the activity described above pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
2. **Limits of this authorization.**
 - a. This permit does not obviate the need to obtain Federal, state, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
3. **Limits of Federal Liability.** In issuing this permit, the Federal Government does not assume any liability for the following:
 - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
 - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
 - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.
 - e. Damage claims associated with any future modifications, suspension, or revocation of this permit.
4. **Reliance on Applicant's Data:** The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance of the information you provided.
5. **Reevaluation of Permit Decision.** This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

Administrative Appeal Process



NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: Hawaii Community Development Authority	File Number: POH-2009-00303	Date: January 18, 2012
Attached is:		See Section below
XX	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
	PERMIT DENIAL	C
	APPROVED JURISDICTIONAL DETERMINATION	D
	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://www.usace.army.mil/inet/functions/cw/cecwo/regor> or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II- REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION

If you have questions regarding this decision and/or the appeal process you may contact:

Robert D. Deroche
U.S. Army Corps of Engineers
Honolulu District, Attn: CEPOH-EC-R
Building 230
Fort Shafter, Hawaii 96858-5440

If you only have questions regarding the appeal process you may also contact:

Thom Lichte
U.S. Army Corps of Engineers, Pacific Ocean Division
ATTN: CEPOD-PDC
Building 525
Fort Shafter, HI 96858-5440

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Date:

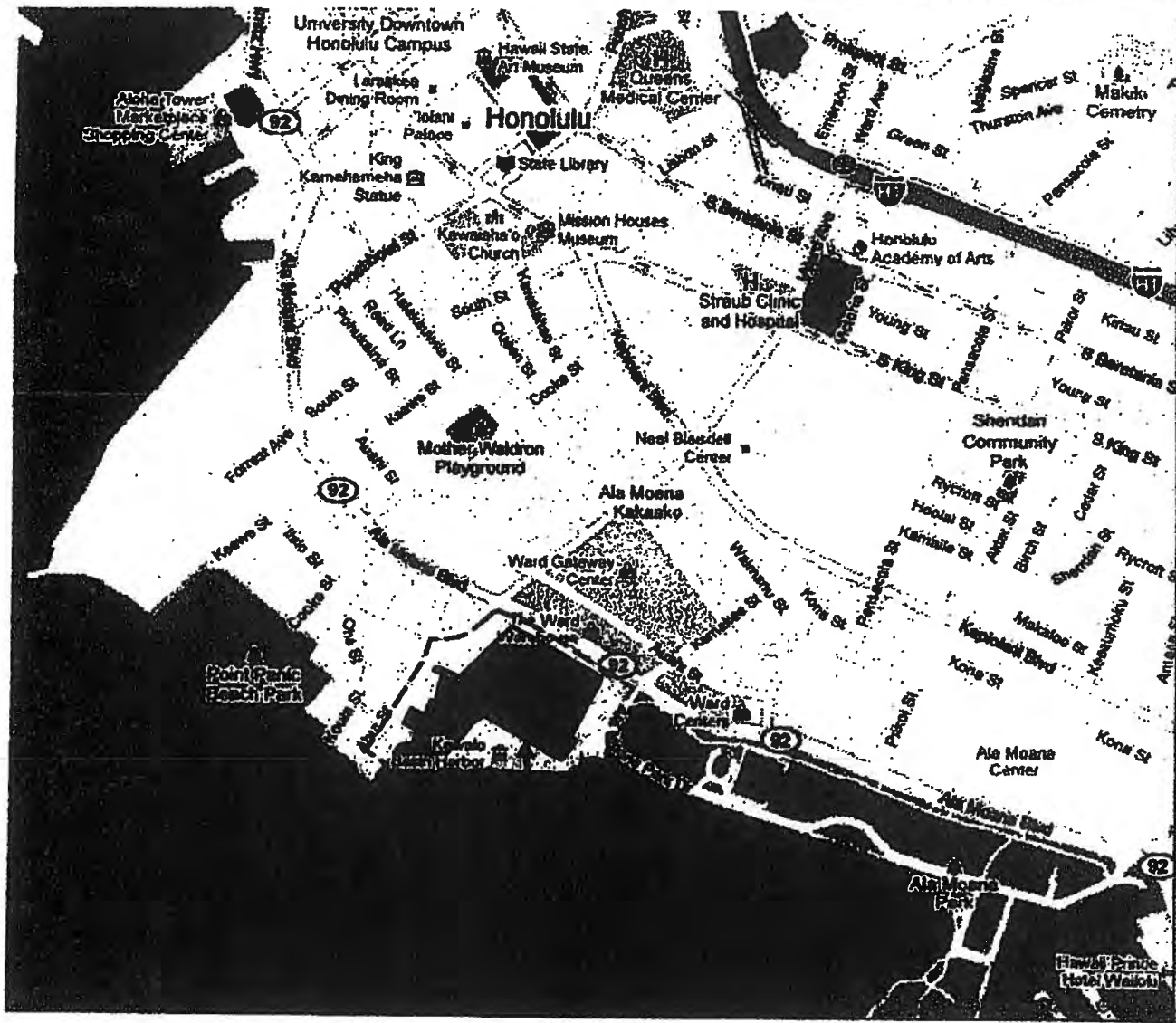
Telephone number:

Signature of appellant or agent.

Mail to:

Thom Lichte
U.S. Army Corps of Engineers,
ATTN: CEPOD-PDC
Building 525
Fort Shafter, HI 96858-5440

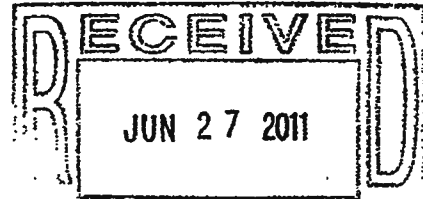
POH-2009-00303



VICINITY MAP
N.T.S.

DESCRIPTION

1. VERTICAL DATUM: LOCAL MLLW = 0 FEET
2. LATITUDE: 21° 17' 35" N
LONGITUDE: 157° 51' 25" W
3. ADJACENT PROPERTIES: FOR LIST OF CURRENT TENANTS,
SEE PROJECT DESCRIPTION DOCUMENT (ATTACHED).



KEWALO BASIN REPAIRS PROJECT

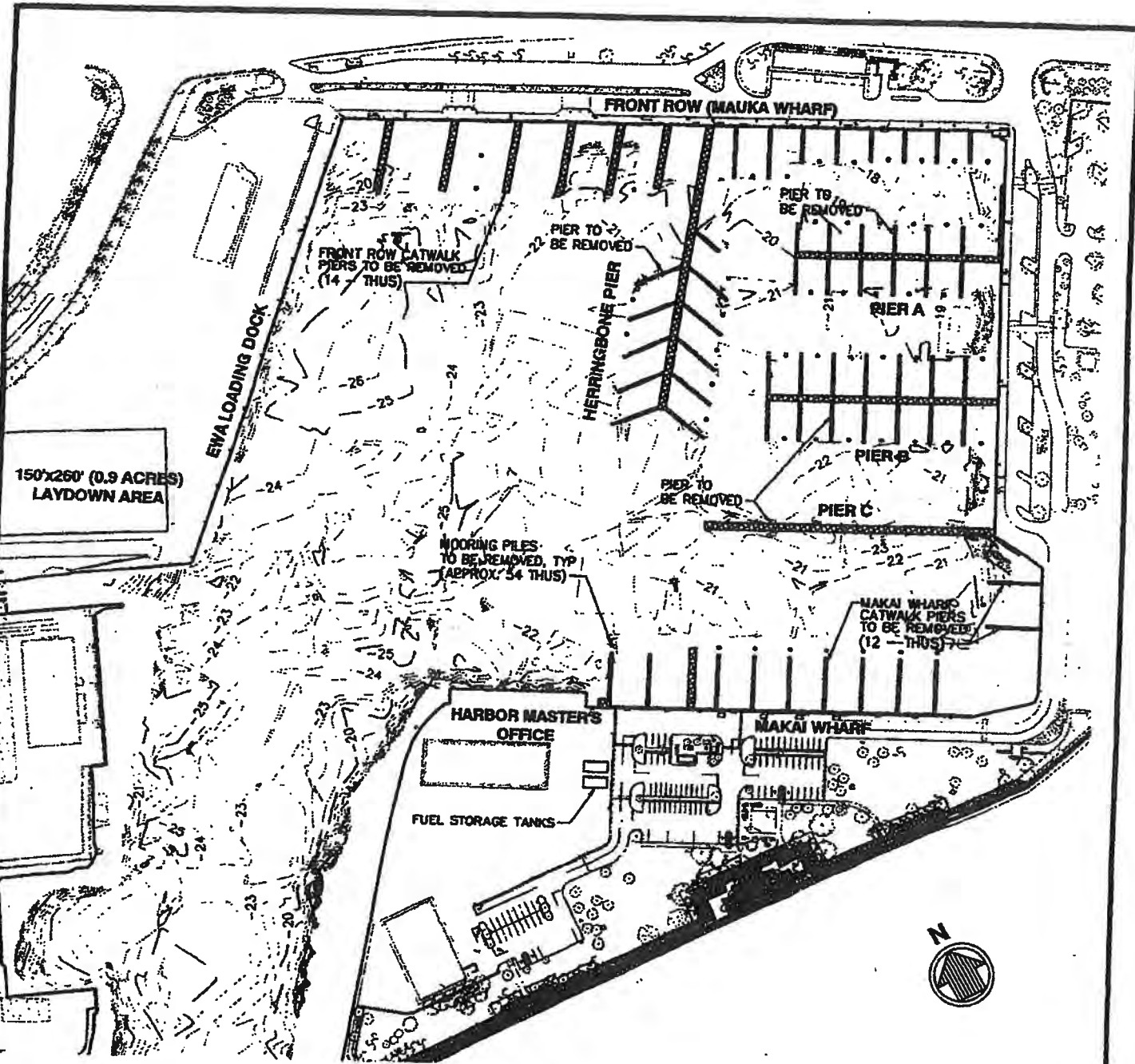
IN: KEWALO BASIN, OAHU, HI
NEAR: KAKA'AKO DEVELOPMENT DISTRICT
APPLICATION BY:
HAWAII COMMUNITY DEVELOPMENT AUTHORITY
461 COOKE STREET
HONOLULU, HI 96813



SHEET 1 OF 11

DATE: JUNE 2011

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EXISTING SITE PLAN
SCALE: 1"=200'

DEMOLITION SUMMARY:

FIXED CONCRETE PIERS	
PIER A	4310 SF
PIER B	4990 SF
PIER C	4110 SF
HERRINGBONE PIER	6270 SF
MAUKA WHARF PIERS	6600 SF
MAKAI WHARF PIERS	4550 SF
DEMOLITION TOTAL	30,830 SF

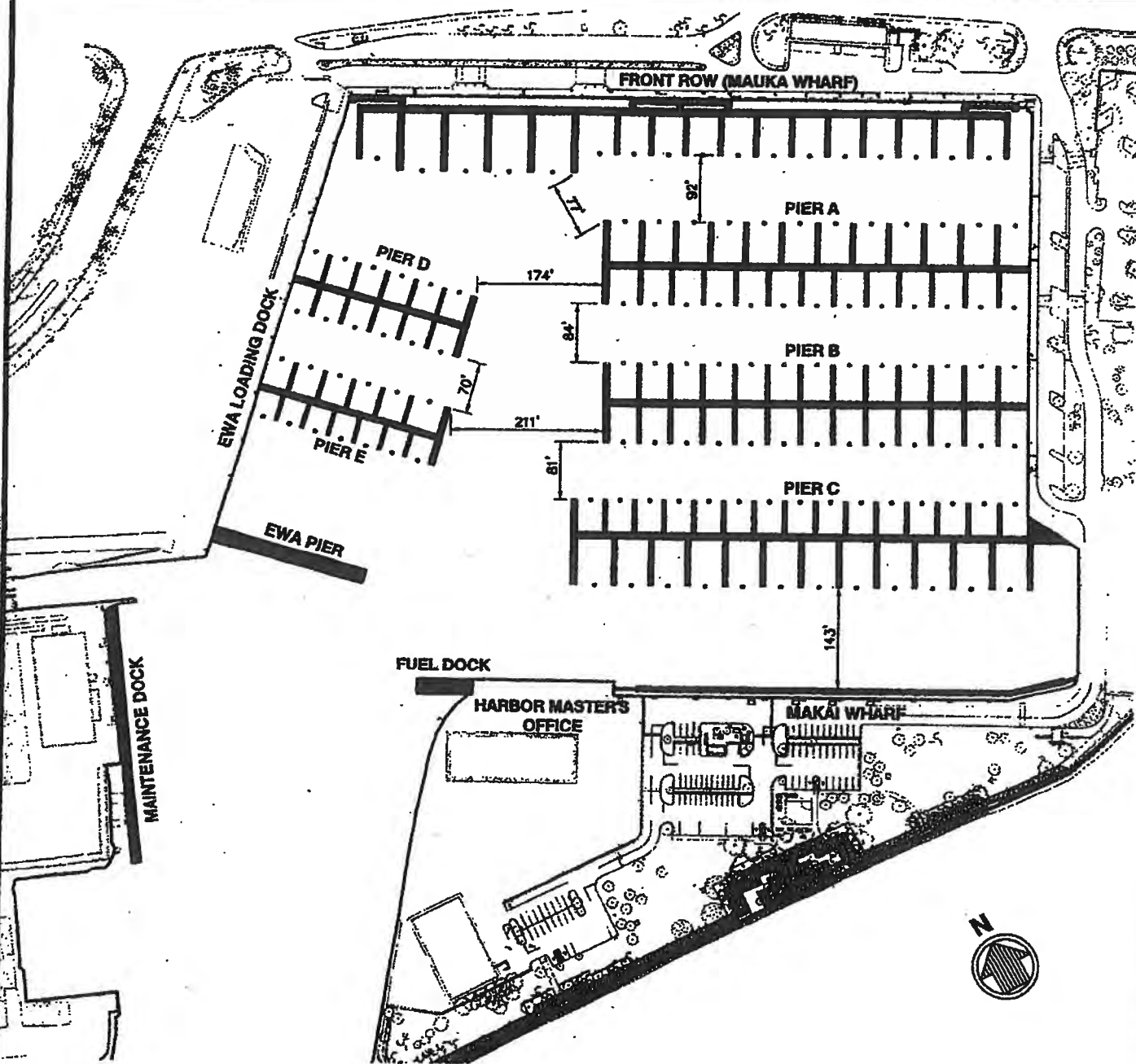
POH-2009-00303

KEWALO BASIN REPAIRS PROJECT

IN: KEWALO BASIN, OAHU, HI
NEAR: KAKA'AKO DEVELOPMENT DISTRICT
APPLICATION BY:
HAWAII COMMUNITY DEVELOPMENT AUTHORITY
461 COOKE STREET
HONOLULU, HI 96813



P:\1992_HICDA_KEWALO BASIN REPAIRS\PROJECT 7 DESIGN INFORMATION\DRAWINGS\PERMITTING\2011-05 PERMITTING\689200PERMIT.DWG 21-Jun-11 9:01 AM Smith, William



PROPOSED SITE PLAN

SCALE: 1"=200'

SUMMARY:

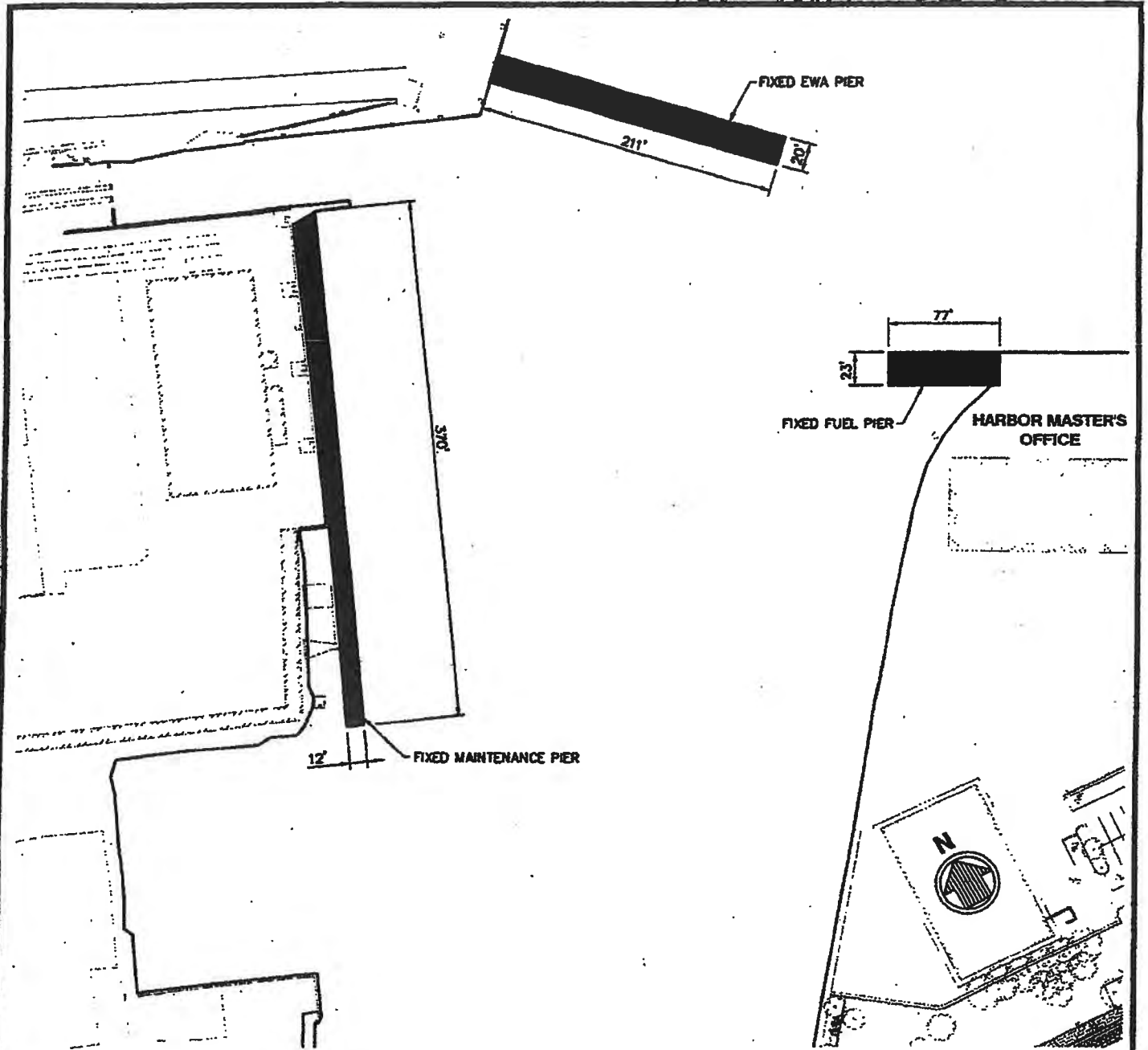
TOTAL SURFACE AREA OF DOCKS	77,420 SF
TOTAL SLIPS	250 EA
TOTAL MOORING PILES	120 EA



POH-2009-00303 **KEWALO BASIN REPAIRS PROJECT**

IN: KEWALO BASIN, OAHU, HI
 NEAR: KAKA'AKO DEVELOPMENT DISTRICT
 APPLICATION BY:
 HAWAII COMMUNITY DEVELOPMENT AUTHORITY
 461 COOKE STREET
 HONOLULU, HI 96813
 SHEET 3 OF 11
 DATE: JUNE 2011

POH-2009-00303



PARTIAL PROPOSED SITE PLAN

SOUTHWEST

SCALE: 1"=100'

SUMMARY:

EWA PIER FIXED PIER	4180 SF
FUEL DOCK FIXED PIER	1770 SF
MAINTENANCE PIER FIXED PIER	4400 SF

KEWALO BASIN REPAIRS PROJECT

IN: KEWALO BASIN, OAHU, HI
 NEAR: KAKA'AKO DEVELOPMENT DISTRICT
 APPLICATION BY:
 HAWAII COMMUNITY DEVELOPMENT AUTHORITY
 461 COOKE STREET
 HONOLULU, HI 96813

SHEET 4 OF 11

DATE: JUNE 2011



P:\8882_MCOA_KEWALOBASINREPAIR\PROJECT\7 DESIGN INFORMATION\DRAWINGS\PERMITDWS\2011-05 PERMITTING\698200PERMIT05_21-Jun-11 9:02 AM: Smith, Willson



PIER D
FIXED PIER
SLIPS

4390 SF
24' @ 40'
1' @ 80'

PIER E
FIXED PIER
SLIPS

4415 SF
12 @ 40'
14 @ 35'
1 @ 80'

MAKAI WHARF (PARTIAL)
FIXED PIER
SLIPS

5090 SF
8 @ 80'
1 @ 65'

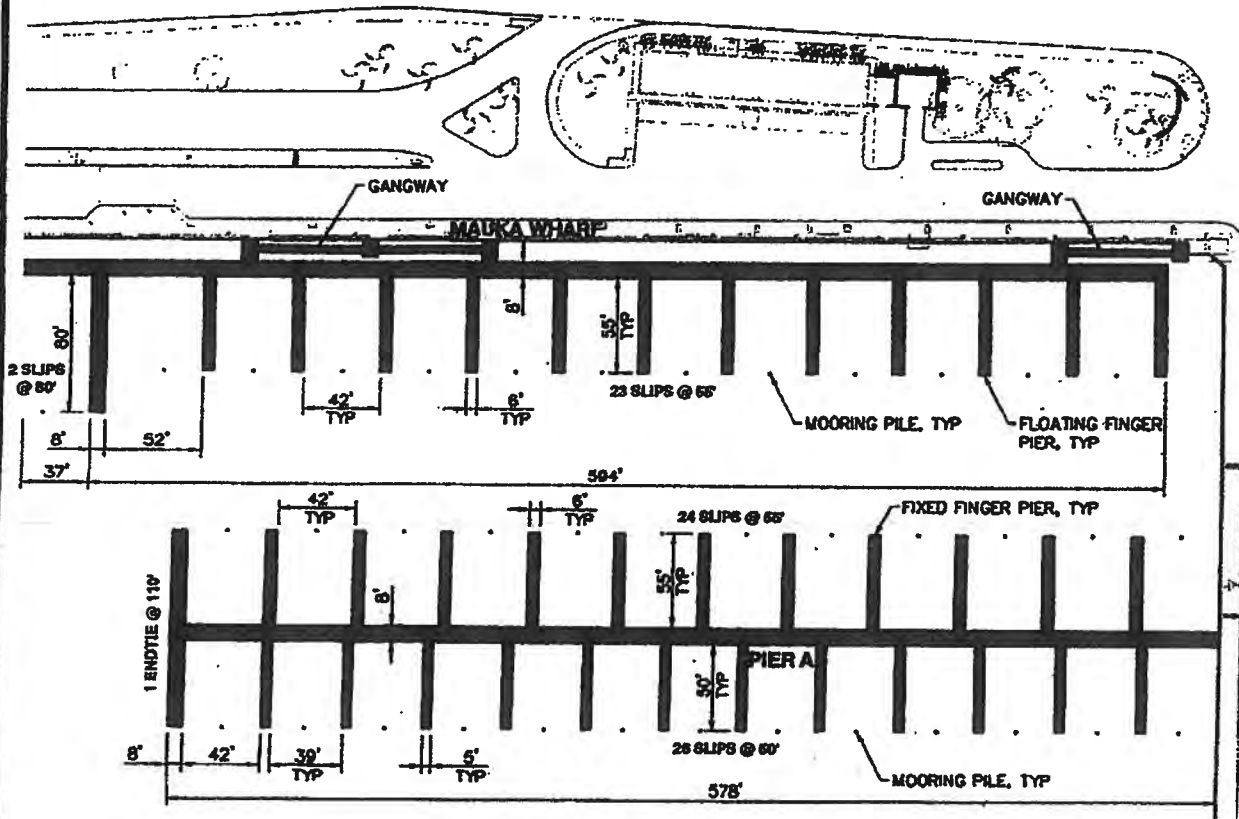


IN: KEWALO BASIN, OAHU, HI
NEAR: KAKA'AKO DEVELOPMENT DISTRICT
APPLICATION BY:
HAWAII COMMUNITY DEVELOPMENT AUTHORITY
461 COOKE STREET
HONOLULU, HI 96813

SHEET 5 OF 11

DATE: JUNE 2011

POH-2009-00303



PARTIAL PROPOSED SITE PLAN
NORTHEAST
 SCALE: 1"=100'

SUMMARY:

PIER A	
FIXED PIER	12,155 SF
SLIPS	24 @ 55'
	26 @ 50'
	1 @ 110'
MAKAI WHARF (PARTIAL)	
FIXED PIER	9900 SF
SLIPS	23 @ 55'
	2 @ 80'

KEWALO BASIN REPAIRS PROJECT

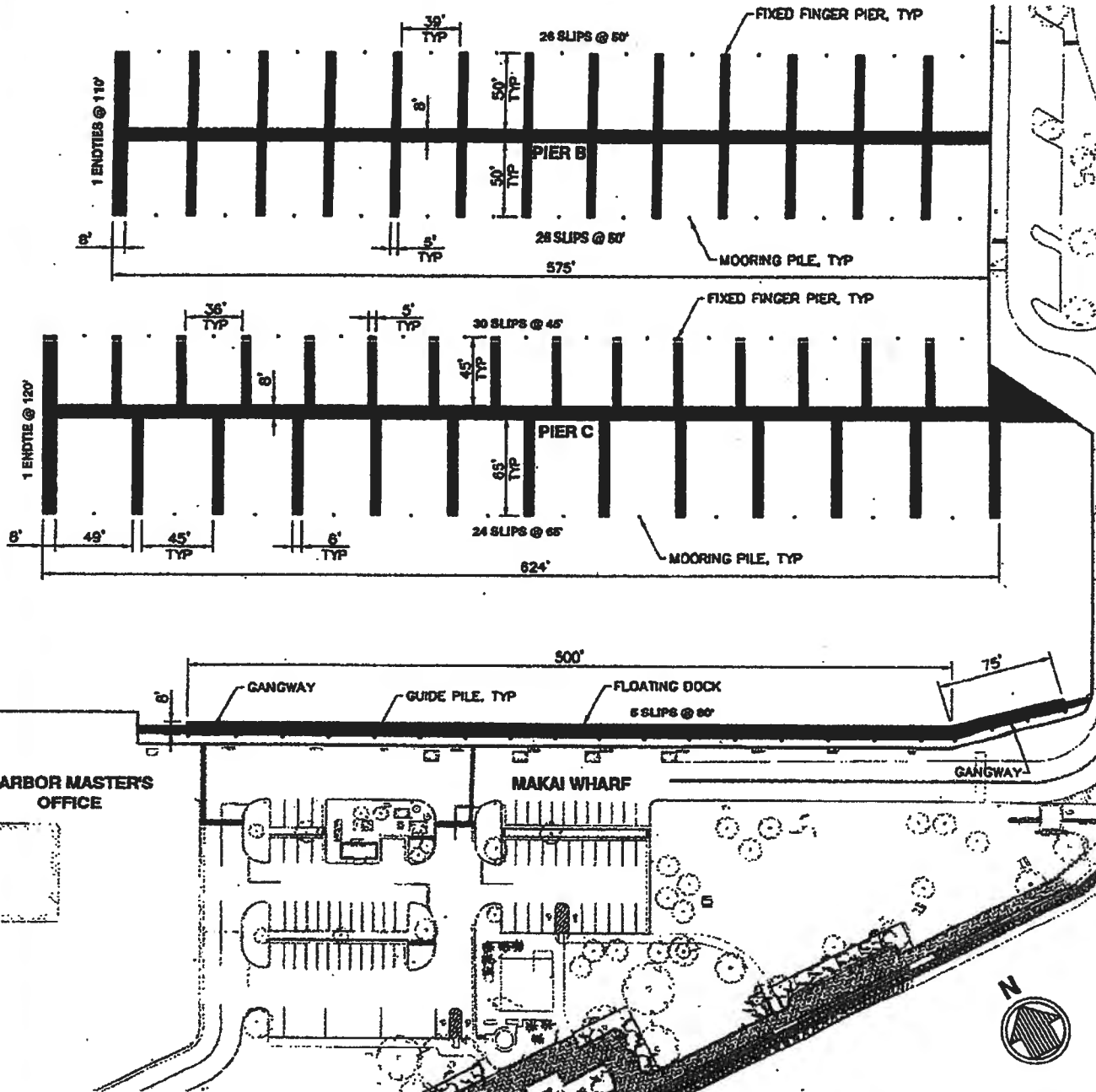
IN: KEWALO BASIN, OAHU, HI
 NEAR: KAKA'AKO DEVELOPMENT DISTRICT
 APPLICATION BY:
 HAWAII COMMUNITY DEVELOPMENT AUTHORITY
 461 COOKE STREET
 HONOLULU, HI 96813

SHEET 6 OF 11

DATE: JUNE 2011



POH-2009-00303



PARTIAL PROPOSED SITE PLAN

SOUTHEAST

SCALE: 1"=100'

SUMMARY:

PIER B
FIXED PIER
SLIPS

11,400 SF
52 @ 50'
1 @ 110'

PIER C
FIXED PIER
SLIPS

15,110 SF
24 @ 65'
30 @ 45'
1 @ 120'

MAKAI WHARF
FLOATING DOCK
SLIPS

4610 SF
5 @ 80'

KEWALO BASIN REPAIRS PROJECT

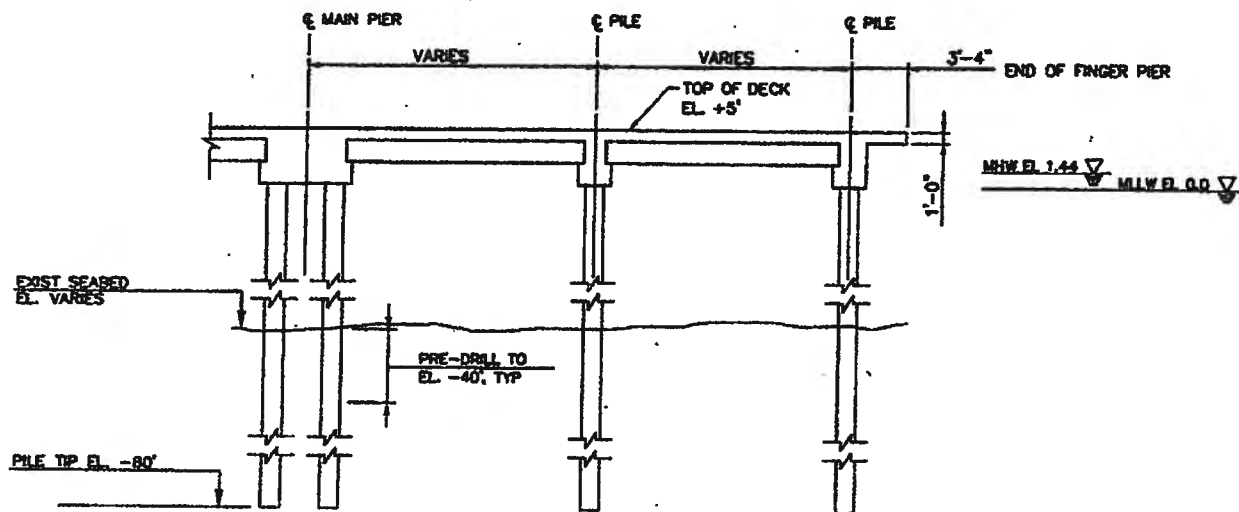
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HAWAII COMMUNITY DEVELOPMENT AUTHORITY
461 COOKE STREET
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SHEET 7 OF 11

DATE: JUNE 2011

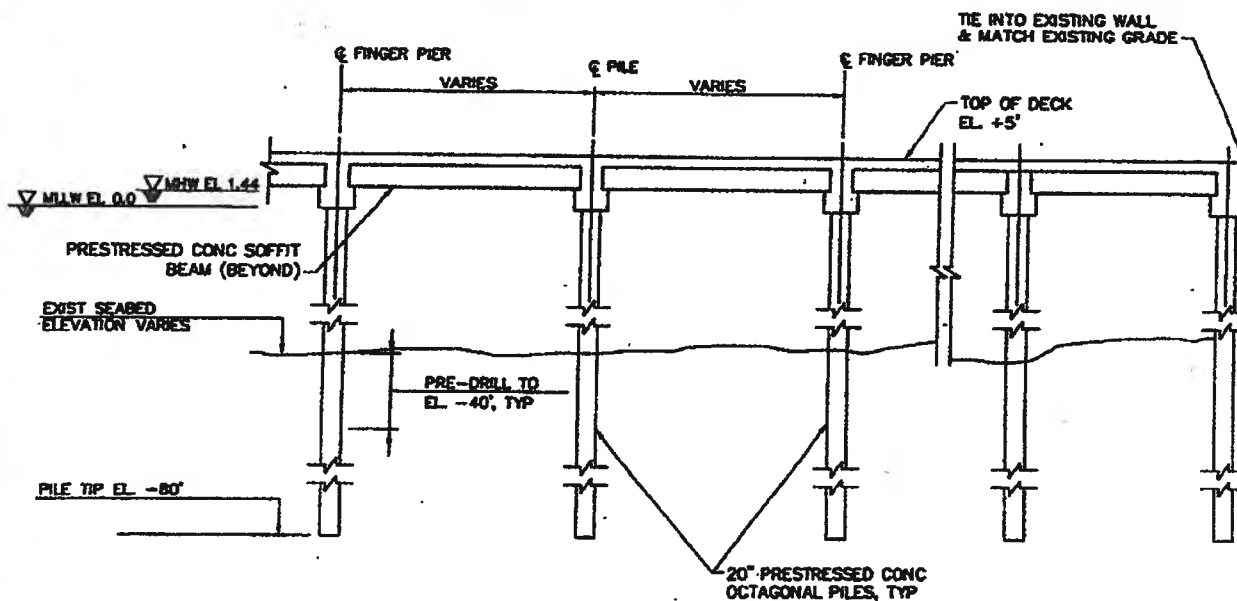


POH-0009-00303



TYPICAL FIXED FINGER PIER

SCALE: 1/16" = 1'-0"



TYPICAL FIXED MAIN PIER

SCALE: 1/16" = 1'-0"

KEWALO BASIN REPAIRS PROJECT

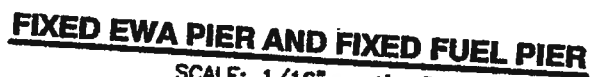
IN: KEWALO BASIN, OAHU, HI
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 APPLICATION BY:
 HAWAII COMMUNITY DEVELOPMENT AUTHORITY
 461 COOKE STREET
 HONOLULU, HI 96813



SHEET 8 OF 11


DATE: JUNE 2011

\\01010111\DATA\JLON\DRAWINGS\PERMITS\2011-05 PERMITS\050000PERMIT01 21-Jan-11 9:03 AM; Smith, William



SCALE: 1/16" = 1'-0"

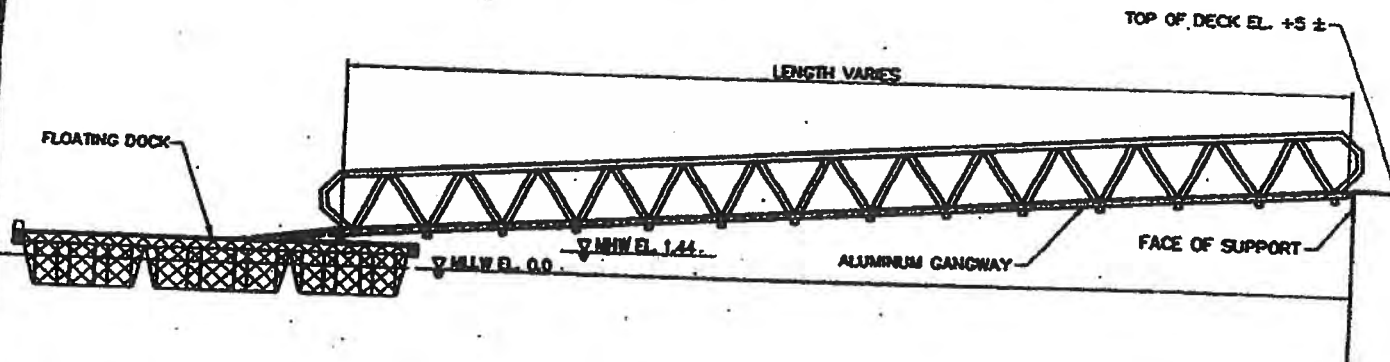
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APPLICATION BY:
HAWAII COMMUNITY DEVELOPMENT AUTHORITY
461 COOKE STREET
HONOLULU, HI 96813
SHEET 9 OF 11
DATE: JUNE 2011



moffatt & nichol
HONOLULU, HI

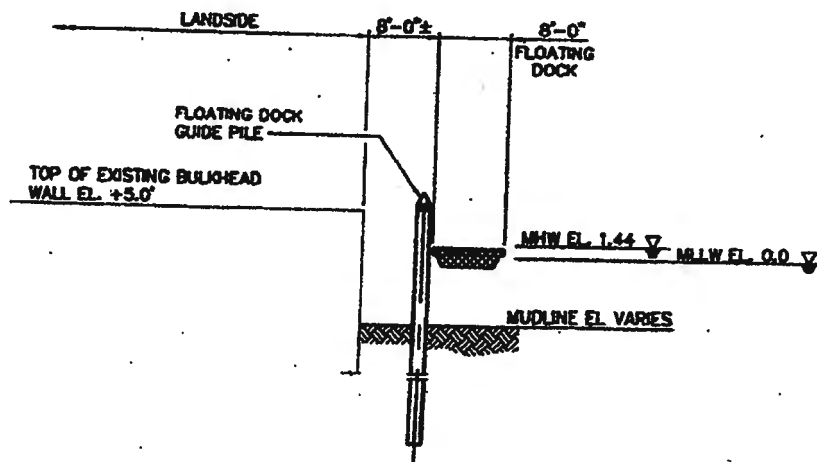
SHEET 9 OF 11

POH-2009-00303



TYPICAL GANGWAY

SCALE: 3/32" = 1'-0"



TYPICAL FLOATING DOCK

SCALE: 1" = 20'-0"

\\2011-05 PERMITTING\093000PERMIT\21-Jan-11 9:04 AM Smith, William

\\2011-05 PERMITTING\093000PERMIT\21-Jan-11 9:03 AM Smith, William

**NOAA NMFS PRD - BEST MANAGEMENT PRACTICES FOR COMPLIANCE WITH THE
ENDANGERED SPECIES ACT (January 2012)**

All workers associated with this project, irrespective of their employment arrangement or affiliation (e.g. employee, sub-contractor, etc.) shall be fully briefed on the BMPs and the requirement to adhere to them for the duration of their involvement in this project. During the construction period, industry-standard BMPs will be employed to avoid or minimize adverse effects on marine resources, including but not limited to:

- A. Constant vigilance shall be kept for the presence of ESA-listed marine species during all aspects of the authorized action, particularly in-water activities such as pile-driving, boat operations, diving, and deployment of anchors and mooring lines.
 1. The project manager shall designate an appropriate number of competent observers to survey the areas adjacent to the proposed action for ESA-listed marine species.
 2. Surveys shall be made prior to the start of work each day, and prior to resumption of work following any break of more than one half hour.
 3. All work shall be postponed or halted when ESA-listed marine species are within 50 yards of the proposed work, and shall only begin/resume after the animals have voluntarily departed the area. With the exception of pile-driving, if ESA-listed marine species are noticed within 50 yards after work has already begun, that work may continue if, in the best judgment of the project supervisor, that there is no way for the activity to adversely affect the animal(s). For example; divers performing surveys, or workers conducting over-water work would likely be permissible, whereas operation of heavy equipment and pile driving is not.
 4. No marine mammals or sea turtles may be within 50 yards of pile driving (safety zone). The safety zone shall be monitored for 30 minutes prior to the start of that work to ensure it is clear of ESA-listed marine species, and pile driving will be postponed or halted until the observers have declared the safety zone clear. If protected marine species are found within the safety zone, pile driving shall be immediately halted until the animal(s) have been visually confirmed beyond the safety zone or 30 minutes have passed without re-detection of the animal(s).
 5. At the commencement of pile driving activities, the Contractor shall conduct underwater acoustic monitoring according the plan approved by NMFS during the consultation for this action.
 6. The Contractor shall employ attenuation technologies that would minimally result in a 10 dB reduction of the source level (for example: enclosed bubble curtains), to reduce the acoustic impacts of pile driving.
 7. Pile driving will employ a slow increase in hammering intensity (ramp-up technique) at the start of each work day or following any break of more than 30 minutes.

Attachment 1

8. Pile driving will be conducted during daylight hours only.
9. Vibratory hammers will not be used for this project at this location.
10. Special attention will be given to verify that no ESA-listed marine animals are in the area where equipment, anchors, or piles are expected to contact the substrate before that equipment may enter the water.
11. All objects will be lowered to the bottom in a controlled manner. This can include the use of buoyancy controls such as lift bags, or the use of cranes, winches, or other equipment that affect positive control over the rate of descent.
12. Deployment sites will be devoid of live corals, sea grass beds, or other significant resources.
13. In-water tethers, as well as mooring lines for vessels and marker buoys shall be kept to the minimum lengths necessary, and shall remain deployed only as long as needed to properly accomplish the required task.
14. When piloting vessels, vessel operators shall alter course to remain at least 100 yards from whales, and at least 50 yards from other marine mammals and sea turtles.
15. Reduce vessel speed to 10 knots or less when piloting vessels at or within the ranges described above from marine mammals and sea turtles. Operators shall be particularly vigilant to watch for turtles at or near the surface in areas of known or suspected turtle activity, and if practicable, reduce vessel speed to 5 knots or less.
16. If despite efforts to maintain the distances and speeds described above, a marine mammal or turtle approaches the vessel, put the engine in neutral until the animal is at least 50 feet away, and then slowly move away to the prescribed distance.
17. Marine mammals and sea turtles shall not be encircled or trapped between multiple vessels or between vessels and the shore.
18. Do not attempt to feed, touch, ride, or otherwise intentionally interact with any ESA-listed marine species.

B. No contamination of the marine environment shall result from project-related activities.

1. A contingency plan to control toxic materials is required.
2. Appropriate materials to contain and clean potential spills shall be stored at the work site and be readily available.
3. All project-related materials and equipment placed in the water shall be free of pollutants.
4. The project manager and heavy equipment operators shall perform daily pre-work equipment inspections for cleanliness and leaks. All heavy equipment operations shall be postponed or halted should a leak be detected, and shall not proceed until the leak is repaired and equipment cleaned.

5. Fueling of land-based vehicles and equipment shall take place at least 50 feet away from the water, preferably over an impervious surface. Fueling of vessels shall be done at approved fueling facilities.
6. Turbidity and siltation from project-related work shall be minimized and contained through the appropriate use of erosion control practices, effective silt containment devices, and the curtailment of work during adverse weather and tidal/flow conditions.
7. The Contractor shall conduct daily visual observations to ensure that control measures are in place and functioning properly. If an activity-related plume is observed outside of the silt curtain, the Contractor shall stop that activity and take immediate corrective action. Activity shall resume only after the problem is corrected.
8. In addition to daily visual observations, the Contractor shall conduct periodic water quality monitoring during periods of in-water construction to validate the effectiveness of the containment device.
9. The contractor will employ construction debris control devices such as booms, tarpaulins, floats, or other devices as necessary to prevent construction debris from entering the water and airborne materials from leaving the immediate vicinity of the site.

U.S. Fish and Wildlife Service Recommended Standard Best Management Practices
POH-2009-00303 (January 2012)

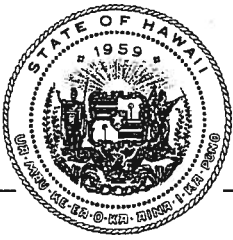
1. In order to minimize any turbidity and siltation that could result from undertaking the authorized work, you must appropriately use effective silt containment devices and curtail work during adverse tidal and weather conditions.
2. Any materials or equipment (dredges, barges, backhoes etc) to be used to carry out the authorized work must be cleaned of pollutants before you place or use it in the water.
3. You may not stockpile any project-related materials (fill, revetment rock, pipe etc.) in waters of the U.S., including wetlands.
4. Any debris removed from the aquatic environment may only be disposed of at upland sites in accordance with all applicable laws and regulations.
5. In order to avoid contaminating the aquatic environment with trash or debris or by the introduction or attraction of non-native species, you must implement a litter-control plan and a Hazard Analysis and Critical Control Point Plan (HACCP) that have been approved by the U.S. Fish and Wildlife Service. A tool for developing a HACCP is available at <<http://www.haccp-nrm.org/Wizard/default.asp>>.
6. You must use off-site fueling sites to the maximum extent practicable. If fueling of project-related vehicles and equipment must occur on-site, you must establish a designated fuel area at a sufficient distance away from any water of the U.S. so as to eliminate the potential for contamination, due to any inadvertent fuel spills, to those waters. You must develop, and train project personnel to implement, a best management practices and contingency plan that addresses proper fueling and fuel spill cleanup procedures. Absorbent pads and containment booms shall be stored on-site, if appropriate, to facilitate the clean-up of accidental petroleum releases.

Attachment 2

NOAA NMFS HCD BEST MANAGEMENT PRACTICES for KEWALO HARBOR
BASIN IMPROVEMENTS (POH-2009-00303) (January 2012)

1. Mark vessel movement corridors in and around channel clearly during and post-construction to minimize risk of vessel groundings on coral reef habitat adjacent to channel.
2. Minimize the amount of in-water work that will cause sediment re-suspension, including the level of work conducted from barges.
3. Clean all construction-related materials and equipment (e.g., barges, pilings, etc.) to be placed in the water of pollutants prior to use.
4. Avoid contact between construction –related materials, equipment and divers/workers with coral and seagrass discovered within or present immediately outside of project footprint.
5. Utilize best management practices (BMPs) to limit and control the release of contaminants from sediment, and re-suspension of sediment in general causing turbidity when removing piles and installing new structures. Avoid causing sedimentation to coral reef habitat outside marina footprint. Measures may include, but are not limited to, constructing silt fences, coffer dams, and operational modification, as well as implementing the following:
 - a. Remove the pile slowly to allow sediment to slough off at or near the sediment line.
 - b. Break the bond between the sediment and pile first to minimize the potential for the pile to break, as well as reduce the amount of sediment sloughing off the pile during removal.
 - c. Encircle the pile or piles with a silt curtain that extends from the surface of the water to the substrate.
6. Avoid stockpiling construction materials or harbor sediments in the marine environment. Place removed and demolished material including piles on the lay-by-barge equipped with a basin to contain all attached sediment and runoff water after removal. All debris, including attached, contaminated sediments, should be disposed of in an approved upland facility.
7. Avoid discharge of diesel and gasoline and oil contaminants from fuel dock during and post-construction. Develop a contingency plan to control the accidental spills of petroleum products during and also post-construction, and store absorbent pads and containment booms on-site to facilitate the clean-up of petroleum spills.
8. Avoid discharge of sewage from septic handling systems including pump-out station during and post-construction. Develop a contingency plan to control the accidental discharge and spills of sewage during and also post-construction.
9. Avoid invasive species transfer from within the marina to the coral reef habitat immediately outside of the marina during and also post-construction.

Attachment 3



DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

NEIL ABERCROMBIE
GOVERNOR
RICHARD C. LIM
DIRECTOR
MARY ALICE EVANS
DEPUTY DIRECTOR
JESSE K. SOUKI
DIRECTOR
OFFICE OF PLANNING

OFFICE OF PLANNING

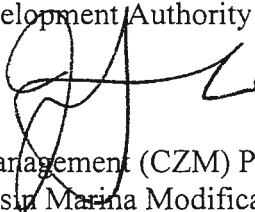
235 South Beretania Street, 6th Floor, Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804

Telephone: (808) 587-2846
Fax: (808) 587-2824

Ref. No. P-13483

December 20, 2011

To: Anthony J. H. Ching, Executive Director
Hawaii Community Development Authority

From: Jesse K. Souki, Director 

Subject: Hawaii Coastal Zone Management (CZM) Program Federal Consistency Review
Required for Kewalo Basin Marina Modifications, Honolulu, Oahu;
Department of the Army Permit File No. POH-2009-00303

The Hawaii CZM Program has completed the federal consistency review for the proposed project involving the demolition, replacement, and expansion of existing pier infrastructure within Kewalo Basin to improve harbor capacity and safety. This CZM review covers the construction of new piers and docks to provide 250 slips, modernization of the harbor's potable water and electrical systems, and provision of a new fire suppression system and new sewage pumpout facilities. The proposal does not include any alteration to the harbor entrance channel or the shoreline area.

We concur with your certification that the activity is consistent with the enforceable policies of the Hawaii CZM Program, based on the following conditions:

1. Best management practices and mitigation measures, as represented in the following documents, shall be fully implemented: CZM application, Section 2.7; Final EIS acceptance letter, June 13, 2011; and Final EIS, Section 1.6.2. This condition is necessary to ensure consistency with the CZM policies protecting coastal ecosystems contained in Hawaii Revised Statutes (HRS) Chapter 205A, which is a federally-approved enforceable policy of the Hawaii CZM Program.
2. The construction and operation of the project shall be in compliance with State of Hawaii water quality standards as specified in Hawaii Administrative Rules (HAR) Chapter 11-54 and HRS Chapter 342D, which are federally-approved enforceable policies of the Hawaii CZM Program.
3. A conservation district use permit shall be obtained from the Department of Land and Natural Resources in accordance with HRS Chapter 183C, and HAR Chapter 13-5, which are federally-approved enforceable policies of the Hawaii CZM Program.

Anthony J.H. Ching

Page 2

December 20, 2011

4. The project shall be in compliance with the Special Management Area (SMA) Use Approval issued by the Office of Planning on October 7, 2011, and all of the required conditions. The SMA authorities are established in HAR Chapter 15-150, and HRS Chapter 205A, which are federally-approved enforceable policies of the Hawaii CZM Program.

If the requirements of 15 CFR 930.4(a)(1) through (3) are not met, then all parties shall treat this conditional concurrence letter as an objection pursuant to 15 CFR 930, Subpart D. Furthermore, you are hereby notified that, pursuant to 15 CFR 930.63(e), you have the opportunity to appeal an objection resulting from not meeting the requirements of 15 CFR 930.4(a)(1) through (3) to the Secretary of Commerce within 30 days after receiving this conditional concurrence letter, or 30 days after receiving notice from the U.S. Army Corps of Engineers that your Department of the Army Permit will not be approved as amended by the conditions required by this concurrence.

CZM consistency concurrence does not represent an endorsement of the project nor does it convey approval with any other regulations administered by any State or County agency. Thank you for your cooperation in complying with the Hawaii CZM Program. If you have any questions, please call John Nakagawa of our CZM Program at 587-2878.

c: ✓ Mr. Victor Szabo, Moffatt & Nichol
U.S. Army Corps of Engineers, Regulatory Branch
Department of Health, Clean Water Branch
Department of Land and Natural Resources,
Office of Conservation and Coastal Lands

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HAWAII COMMUNITY
DEVELOPMENT
AUTHORITY

12/3/2014

To: Mr. Tony Ching

From: Jim Miller

Re: Transfer of Kewalo Basin Harbor USACE Permit from HCDA to Kewalo Harbor, LLC

Tony,

The attached letter is required to transfer the Harbor's USACE Permit from HCDA to Kewalo Harbor, LLC. Please sign the letter as indicated. Please return the wet signed letter to June Moore at the Howard Hughes Offices. We will file with the USACE. If you have any questions you (or someone in your office) can contact me directly.

Regards,



Jim Miller

The Howard Hughes Corporation

(808) 348-3952

jim.miller@howardhughes.com



December 3, 2014

Mr. Thom Lichte
U.S. Army Corps of Engineers, Pacific Ocean Division
Attn: CEPOD-PDC
Building 525
Fort Shafter, HI
96858-5440

USCE File No. POH-2009-00303 Kewalo Basin Improvement Project – Permit Transfer Request

Mr. Thom,

This letter shall serve as formal request to transfer USACE Permit with File Number POH-2009-00303 issued in 2011 (the "Permit") from the Hawaii Community Development Authority (HCDA) to Kewalo Harbor, LLC (KH) a wholly owned subsidiary of the Howard Hughes Corporation (HHC).

KH entered into a lease (the "Lease") with HCDA dated September 1st, 2014 for the lease, management and development of Kewalo Basin Harbor, all as more particularly described therein (the "Premises"). Pursuant to the terms of the lease, KH was authorized to develop the Premises in accordance with the Permit.

Attached you will find a copy of the Letter of Permission POH-2009-00303 containing signatures from Nicholas Vanderboom, authorized signatory of the transferee (KH), in section 4 of the General Conditions.

The transfer is hereby authorized by HCDA and accepted by KH per the signatures below, and in accordance with the terms and conditions of the Permit regarding transfer.

Regards,

A blue ink signature of Nicholas Vanderboom, consisting of stylized, overlapping loops and strokes.

Nicholas Vanderboom
Senior Vice President
The Howard Hughes Corporation

A blue ink signature of Anthony J.H. Ching, featuring a large, flowing 'A' and 'C' followed by more compact strokes.

Anthony J.H. Ching
Executive Director
Hawaii Community Development Authority

Cc: Anthony J. H. Ching



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, HONOLULU DISTRICT
FORT SHAFTER, HAWAII 96858-5440

January 18, 2012

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Regulatory Branch
Engineering and Construction Division

LETTER OF PERMISSION
File No. POH-2009-00303

Mr. Anthony J.H. Ching
Hawaii Community Development Authority
461 Cooke Street
Honolulu, Hawaii 96813

Dear Mr. Ching:

I have completed the review of your Department of the Army (DA) permit application to perform modifications of the Kewalo Basin Marina located adjacent to the intersection of Ala Moana Boulevard and Ward Avenue, City and County of Honolulu, Island of Oahu, Hawaii. The purpose of the upgrade is to facilitate the current and future uses of the Kewalo Basin for commercial fishing, tour, charter and pleasure craft operations, while maintaining a financially viable harbor as a commercial and community resource for the State. Based on this review, I have determined that the project would not involve any discharge of dredged or fill material into waters of the United States.

I have determined that your proposed activity involves work in or affecting the course, condition, location or capacity of navigable waters of the United States and that it may be authorized by a Letter of Permission pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403). I have coordinated your request with interested agencies and hereby provide this approval.

The following work is authorized:

Increase the number of slips from 143 to 250. Completely remove all existing docks and pilings and replace as follows: replacement of Docks A, B, and C with longer docks to compensate for removal of the Herringbone Dock D; reconstruction of the Front Row (Mauka Wharf) slips with reconfigured lengths and widths to optimize their usability and the capacity of the harbor; construction of a longitudinal berth adjacent to the Makai Wharf; construction of two new finger docks for small to medium sized commercial vessels extending from the Fisherman's Wharf loading dock; construction of a single jetty dock at the makai end of the Fisherman's Wharf loading dock; and construction of a dedicated marine maintenance dock adjacent to the current Honolulu Marine Inc. shipyard facility.

Construction phases include the following: demolition and disposal of existing concrete infrastructure, including extraction of piles from the seabed; creation of an upland storage and staging area (anticipated to be on the 'ewa side of the harbor); for fixed docks, construction would involve pile driving for installation of the support piles, forming and pouring cast-in-place reinforced concrete pile caps, installation of the precast deck panels, and placement of a topping concrete deck pour; for floating docks, construction would involve assembly of float modules and pile driving to install the guide piles that secure the floats in place; and installation of topside appurtenances (fenders, cleats, dock boxes, utilities, etc.).

Demolition of each dock would take approximately one month and would be conducted from the waterside by a barge-mounted crane. Installation of the new docks would take approximately one to two months, depending upon whether the structure is floating or fixed. Approximately 400 piles will be removed. Pile driving within the harbor will be conducted using a barge-mounted diesel or hydraulic impact hammer. **Use of a Vibratory Hammer is not authorized on this project.** Due to the size of the harbor, only one barge, demolition or pile driving, would be in use at any one time. A maximum of 500 piles will be driven. Demolition debris will not be allowed to enter the harbor.

All work must be performed in accordance with the attached drawings. In order for you to proceed under this authorization, your activity must comply with the enclosed General and Special Conditions.

You must implement and abide by the "Best Management Practices for Compliance with the Endangered Species Act (January 2012)" required by the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS) Protected Resources Division (PRD) and provided in Attachment 1 of this permit. Failure to comply with the conditions in that document constitutes non-compliance with the Endangered Species Act and your Corps permit. NMFS is the appropriate authority to determine compliance with the conditions in that document and with the Endangered Species Act.

You must also implement the "U.S. Fish and Wildlife Service Recommended Standard Best Management Practices POH 2009-00303 (January 2012)" provided in Attachment 2 of this permit, and the "NOAA NMFS HCD Best Management Practices for Kewalo Harbor Basin Improvements (POH-2009-00303) (January 2012)" provided in Attachment 3 of this permit. Failure to comply with the conditions in those documents constitutes non-compliance with your Corps permit. The U.S. Fish and Wildlife Service and NMFS are the appropriate authorities for determining compliance with the conditions in those documents.

The work must also comply with conditions of the Hawaii Coastal Zone Management (CZM) consistency concurrence issued to you by the State of Hawaii Department of Business, Economic Development & Tourism office by letter dated December 20, 2011. Any material changes in the location or plans of the work herein authorized must be submitted to the District Engineer prior to commencement of work. As required by law, you must obtain written approval of the Department of the Army before proceeding with any work that differs materially from the authorized work.

Attached to this letter is a document titled "Notification of Administrative Appeals Options and Process and Request for Appeal", which outlines your options regarding this Letter of Permission. If you accept the permit, you may start the authorized work. Starting work is considered your specific agreement to all terms and conditions of the permit. If you accept the permit you do not need to sign or submit the appeals form. If you object to the permit because of certain terms and conditions it imposes, you may request that the permit be modified. If you elect to object to the permit, you must complete and return the appeals form to the district engineer. The appeals form must be received by the district engineer within 60 days of the date of this letter, or you will forfeit your right to appeal the permit in the future.

Thank you for your cooperation with our regulatory program. Please be advised you can provide comments on your experience with the Honolulu District Regulatory Branch by accessing our web-based customer survey form at <http://per2.nwp.usace.army.mil/survey.html>.

If you have questions regarding this authorization, please call Mr. Robert Deroche of my staff at (808) 438-2039 or by email at robert.d.deroche2@usace.army.mil and refer to File No. POH-2009-00303 on all future inquiries regarding this project.

Thank you for working with the U.S. Army Corps of Engineers to protect the aquatic resources of Hawaii.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:



GEORGE P. YOUNG, P.E.
Chief, Regulatory Branch

For and on behalf of District Commander
Douglas B. Guttormsen
Lieutenant Colonel, U.S. Army
District Engineer

Enclosures

General Conditions:

1. The time limit for completing the work authorized ends on **December 31, 2015**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the following space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.



(TRANSFeree)

12/3/14

(DATE)

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

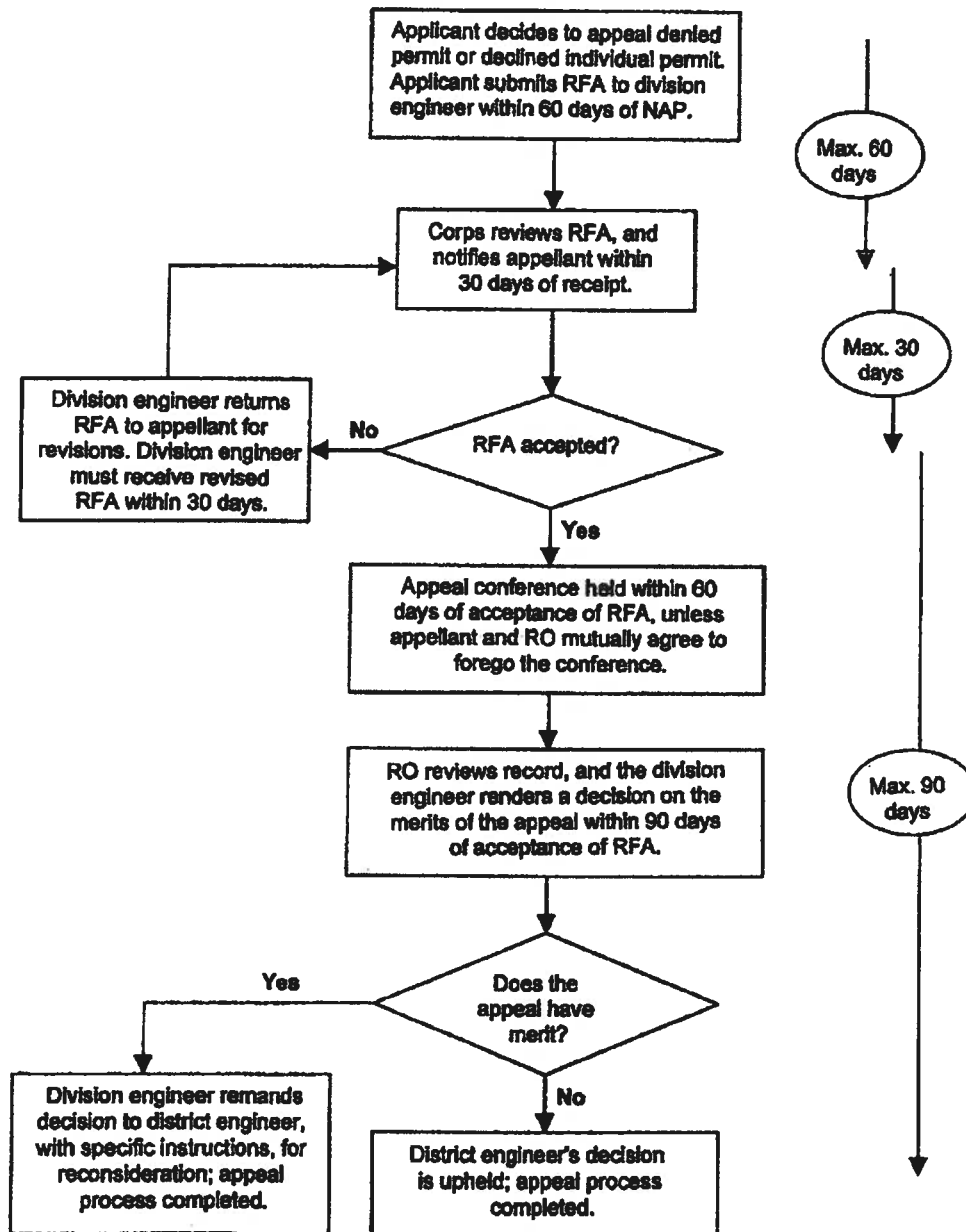
1. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.
2. No sidcasting is authorized. This Letter of Permission does not authorize any dredging or any discharge of dredged or fill material, including sidcasting, into waters of the United States, including wetlands. You may not stockpile materials in any waters of the United States.

Further Information:

- 1. Congressional Authorities:** You have been so authorized to undertake the activity described above pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
- 2. Limits of this authorization.**
 - a. This permit does not obviate the need to obtain Federal, state, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
- 3. Limits of Federal Liability.** In issuing this permit, the Federal Government does not assume any liability for the following:
 - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
 - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
 - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.
 - e. Damage claims associated with any future modifications, suspension, or revocation of this permit.
- 4. Reliance on Applicant's Data:** The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance of the information you provided.
- 5. Reevaluation of Permit Decision.** This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

Administrative Appeal Process



NOTIFICATION OF ADMINISTRATIVE PERMIT DECISIONS AND RIGHTS AND OPTIONS FOR APPEAL

Applicant: Hawaii Community Development Authority		File Number: POH-2009-00303	Date: January 18, 2012
Attached is:		See Section below	
XX	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)		A
	PROFFERED PERMIT (Standard Permit or Letter of permission)		B
	PERMIT DENIAL		C
	APPROVED JURISDICTIONAL DETERMINATION		D
	PRELIMINARY JURISDICTIONAL DETERMINATION		E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://www.usace.army.mil/inter/functions/cw/cecwo/regir> Corps regulations at 33 CFR Part 33.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II: REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION

If you have questions regarding this decision and/or the appeal process you may contact:

Robert D. Deroche
U.S. Army Corps of Engineers
Honolulu District, Attn: CEPOH-EC-R
Building 230
Fort Shafter, Hawaii 96858-5440

If you only have questions regarding the appeal process you may also contact:

Thom Lichte
U.S. Army Corps of Engineers, Pacific Ocean Division
ATTN: CEPOD-PDC
Building 525
Fort Shafter, HI 96858-5440

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

<div data-bbox="125 1197 503 1234" data-label="Text"><p>_____ Signature of appellant or agent.</p></div>	<div data-bbox="794 1100 862 1129" data-label="Text"><p>Date:</p></div>	<div data-bbox="1120 1100 1359 1131" data-label="Text"><p>Telephone number:</p></div>
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Mail to:

Thom Lichte
U.S. Army Corps of Engineers,
ATTN: CEPOD-PDC
Building 525
Fort Shafter, HI 96858-5440



DEPARTMENT OF THE ARMY
HONOLULU DISTRICT, U.S. ARMY CORPS OF ENGINEERS
FORT SHAFTER, HAWAII 96858-5440

November 30, 2015

SUBJECT: Standard Permit Modification for Kewalo Basin Marina Improvements at Honolulu, Island of Oahu, Hawaii DA File No. POH-2009-00303

Mr. Nicholas Vanderboom
Kewalo Harbor, LLC
1240 Ala Moana Boulevard, Suite 200
Honolulu, Hawaii 96814

Dear Mr. Vanderboom:

The U.S. Army Corps of Engineers, Honolulu District (Corps) Regulatory Office has received your request to modify your Department of the Army (DA) permit, Corps No. POH-2009-00303, dated January 18, 2012 for the Kewalo Basin Marina Improvements located adjacent to the intersection of Ala Moana Boulevard and Ward Avenue, Honolulu, Island of Oahu, Hawaii.

This office has reviewed your plans to modify the authorized work as follows:

- a. The proposed project would increase the number of slips from 143 to 214 and reconfigure the marina as follows:
- b. The work on Pier A would include completely removing the existing docks, but allowing the pilings to remain in place, replacing in-kind the six 3-foot wide by 40-foot long and six 3-foot wide by 50-foot long existing finger piers, the 8-foot wide by 280-foot long headwalk pier, and the associated pile caps of Pier A, and adding 2 floating mooring buoys at the end of the pier, deployed in 21-foot deep, sandy bottom, each consisting of a 12-inch diameter spherical buoy with 19-foot long pennant line anchored to a 4-foot long by 4-foot wide by 3-foot tall concrete block attached to 20-feet of 1 1/8-inch blue steel line and 15 feet of 1-inch heavy galvanized chain.
- c. The work on Pier B would include completely removing the existing docks, but allowing the pilings to remain in place, replacing in-kind the seven 3-foot wide by 50-foot long and seven 3-foot wide by 60-foot long finger piers, the 8-foot wide by 315-foot long headwalk pier, and all associated pile caps of Pier B, leaving the piles in place.
- d. The work on Pier C would include replacing the pier structure and pile caps of the existing headwalk pier, extending the length of headwalk pier, constructing 29 new approximately 3.5-foot wide by 29-foot long finger piers and 10 new approximately 3.5-foot wide by 48-foot long finger piers, and installing 40 floating mooring buoys, to be located between the finger piers and deployed in 21-foot deep, sandy bottom, each

consisting of a 12-inch diameter spherical buoy with 19-foot long pennant line anchored to a 4-foot long by 4-foot wide by 3-foot tall concrete block attached to 20-feet of 1 1/8-inch blue steel line and 15 feet of 1-inch heavy galvanized chain.

e. The work on the Herringbone Pier would include repairing minor superficial damage on the 10-foot wide by 400-foot long headwalk pier, on one 3-foot wide by 40-foot long finger pier, and on ten 3-foot wide by 70-foot long existing finger piers by placing concrete and grout as necessary.

f. The work on the piers on the east side of the Front Row/Diamond Head (Mauka Wharf) pier, east of the Herringbone Pier, would include completely removing the existing docks, but allowing the pilings to remain in place, and replacing existing six 3-foot wide by 50-foot long piers, two 3-foot wide by 80-foot long piers, and their associated pile caps.

g. The work on the piers on the west side of the of the Front Row/Diamond Head (Mauka Wharf) pier, west of the Herringbone pier, would include repairing minor superficial damage to the one 9-foot wide by 89-foot long pier and five 9-foot wide by 99-foot long existing finger piers on the by placing concrete and grout as necessary.

h. The work along the edge of the marina northeast of the Makai Wharf and southeast of Pier C would include constructing two new 4-foot wide by 75-foot long piers for small to medium sized commercial vessels.

i. The work on the piers along the Makai Wharf would include completely removing the existing piers, but allowing the pilings to remain in place, and replacing in-kind nine 3-foot wide by 80-foot long piers, one 9-foot wide by 90-foot long pier, and their associated pile caps.

j. The work on the Makai Wharf loading dock would include replacing the 22-foot wide by 196-foot long pier the associated pile caps in-kind by completely removing the existing pier running parallel to the dock, but allowing the pilings to remain in place, and constructing a 11-foot wide by 79-foot long single fuel dock west of the Harbor Master's Office at the Makai Wharf loading dock.

k. Construction phases include the following: demolition and disposal of existing concrete infrastructure and the following construction tasks for new docks and extensions of existing docks: pile driving for installation of the support piles, forming and pouring cast-in-place reinforced concrete pile caps, installation of the precast deck panels, and placement of a topping concrete deck pour.

l. Demolition of each dock would take approximately one month and would be conducted from the waterside by a barge-mounted crane. Construction would take an average of approximately 2.5 months per pier and is anticipated to take place over

several years. Pile driving within the harbor would be conducted using a barge-mounted diesel or hydraulic impact hammer. Due to the size of the harbor, only one barge, for demolition or pile driving, would be in use at any one time. A maximum of 115 piles would be driven. Demolition debris would not be allowed to enter the harbor.

The Corps has determined that the proposed work would result in fewer impacts than the originally authorized work and is therefore authorized under the existing DA permit. This modification extends the expiration date of the permit to December 31, 2020. In order for this modification authorization to be valid, you must ensure that you comply with the project-specific Special Conditions identified in the original authorization and the additional Special Conditions for the modification (Enclosure 1).

Except as changed herein, all terms and conditions of the original permit remain in full force and effect, including the expiration date of your permit. You are directed to attach this letter and the revised plans to all copies of the permit, including those at the work site. The original permit has been amended to include the above description and the enclosed revised drawing (Enclosure 2).

Please sign, date and return the enclosed *Compliance Certification* form (Enclosure 3) within seven (7) days of completion of work to CEPOH-RO@usace.army.mil.

Thank you for your cooperation with the Honolulu District Regulatory Program. Should you have any questions related to this permit modification, please contact Ms. Vera Koskelo of my staff at 808-835-4310 or via e-mail at Vera.B.Koskelo@usace.army.mil.

You are encouraged to provide comments on your experience with the Honolulu District Regulatory Office by accessing our web-based customer survey form at http://corpsmapu.usace.army.mil/cm_apex/f?p=136:4:0.

Sincerely,



Michelle R. Lynch
Chief, Regulatory Office

Enclosures

cc:

State of Hawaii DBEDT Office of Planning (John Nakagawa)

USCG (Brian J. Donahue)

Jim Miller (Jim.Miller@howardhughes.com)



Wahiawā
Schofield Barracks

Mākaha

Nānākuli

O'ahu

Waipahu

Aiea

Loe, Moku o

Kaneohe
Mo'o, Moku

Kailua

Maunawili

Waimanalo

Waimanalo Beach

Ewa Beach

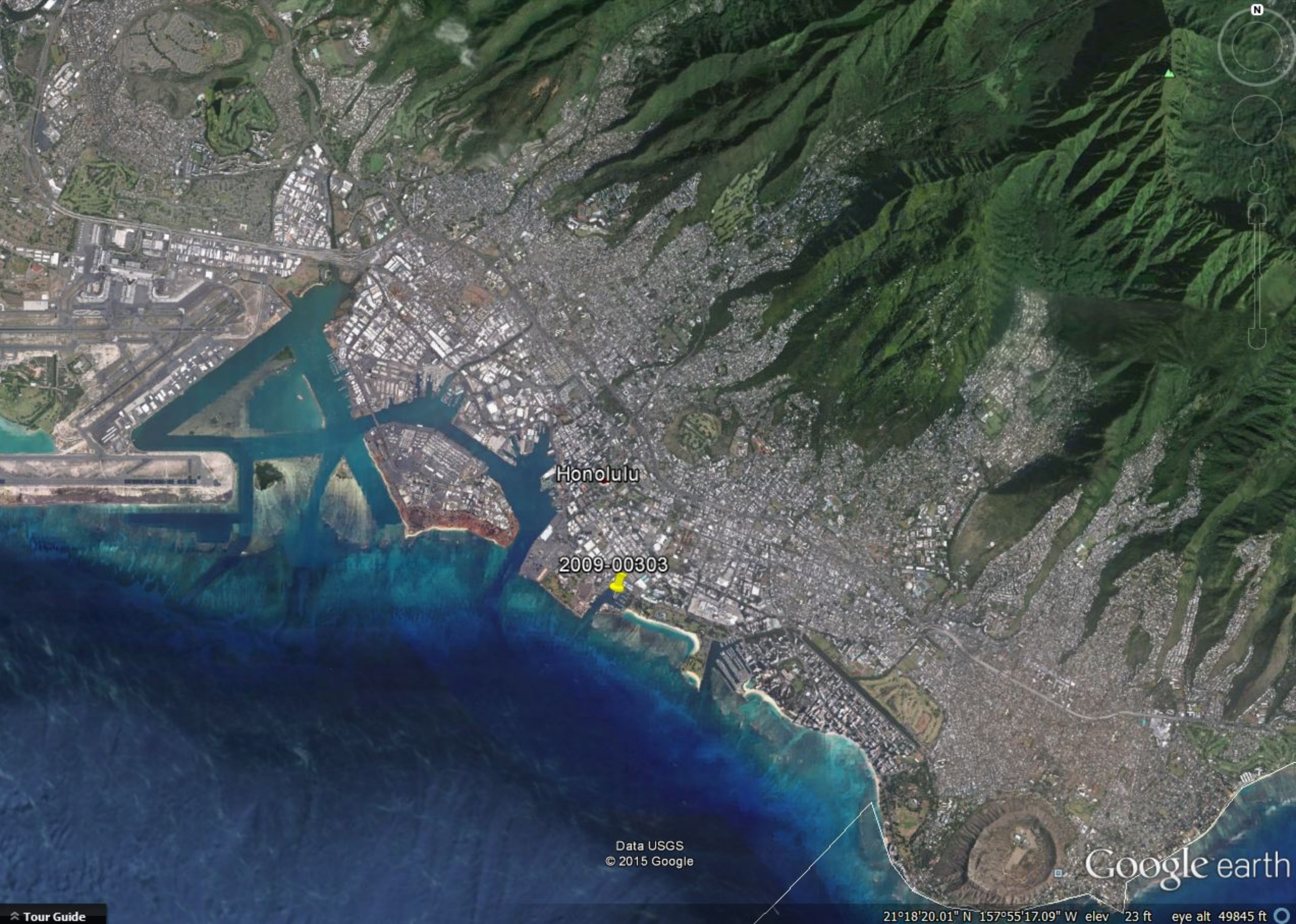
2009-00303

Data USGS
© 2015 Google
Data SOEST/UHM

Google earth

21°27'05.96" N 158°14'00.69" W elev -1191 ft eye alt 37.41 mi

Tour Guide



Honolulu

2009-00303

Data USGS
© 2015 Google

Google earth



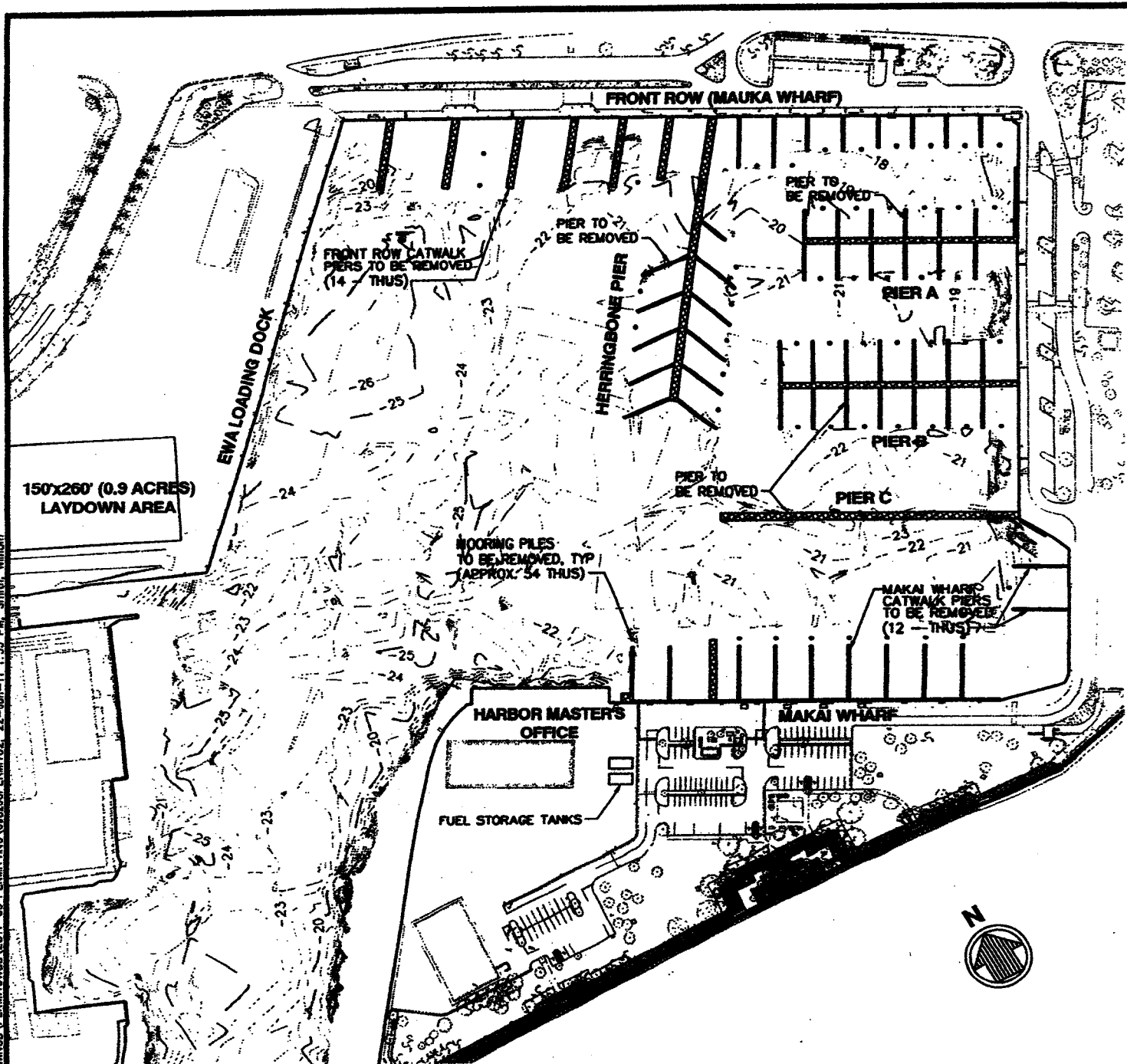
Kaka'ako

2009-00303

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Google earth

P:\6882_HQDA_KEWALO BASIN REPAIRS\PROJECT\7 DESIGN INFORMATION\DRAWINGS\PERMIT\02-22-JUN-11 1:55 PM\William



EXISTING SITE PLAN

SCALE: 1"=200'

DEMOLITION SUMMARY:

FIXED CONCRETE PIERS	
PIER A	4310 SF
PIER B	4990 SF
PIER C	4110 SF
HERRINGBONE PIER	6270 SF
MAUKA WHARF PIERS	6600 SF
MAKAI WHARF PIERS	4550 SF
DEMOLITION TOTAL	30,830 SF



KEWALO BASIN REPAIRS PROJECT

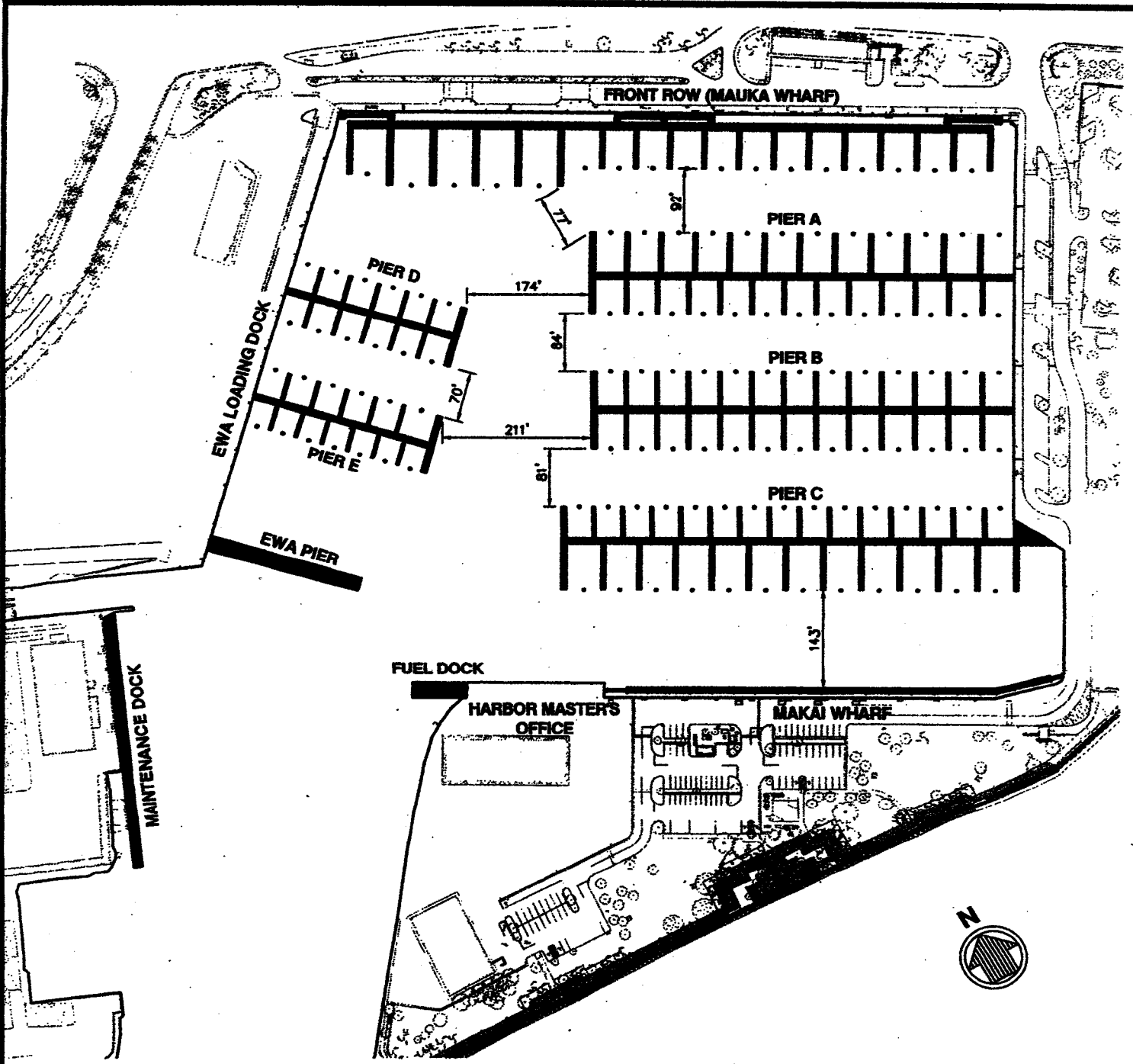
IN: KEWALO BASIN, OAHU, HI
NEAR: KAKA'AKO DEVELOPMENT DISTRICT
APPLICATION BY:
HAWAII COMMUNITY DEVELOPMENT AUTHORITY
461 COOKE STREET
HONOLULU, HI 96813

SHEET 2 OF 11

DATE: JUNE 2011

POH-2009-00303

P:\0802_HCD\KEWALO BASIN REPAIRS\PROJECT\DESIGN INFORMATION\DRAWINGS\PERMITS\2011-05 PERMITTING\080200PERMIT03_21-06-11 9:01 AM Smith, William



PROPOSED SITE PLAN
SCALE: 1"=200'

Originally authorized permit on
January 18, 2012

P04-2009-0030.3

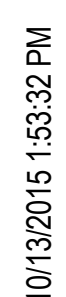
KEWALO BASIN REPAIRS PROJECT

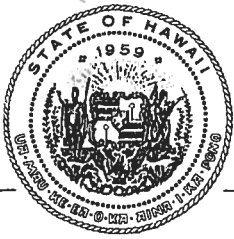
SUMMARY:

TOTAL SURFACE AREA OF DOCKS	77,420 SF
TOTAL SLIPS	250 EA
TOTAL MOORING PILES	120 EA



IN: KEWALO BASIN, OAHU, HI
NEAR: KAKA'AKO DEVELOPMENT DISTRICT
APPLICATION BY:
HAWAII COMMUNITY DEVELOPMENT AUTHORITY
461 COOKE STREET
HONOLULU, HI 96813
SHEET 3 OF 11
DATE: JUNE 2011

T-101



DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

OFFICE OF PLANNING

235 South Beretania Street, 6th Floor, Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804

14666/212.
NEIL ABERCROMBIE
GOVERNOR
RICHARD C. LIM
DIRECTOR
MARY ALICE EVANS
DEPUTY DIRECTOR
JESSE K. SOUKI
DIRECTOR
OFFICE OF PLANNING

Telephone: (808) 587-2846
Fax: (808) 587-2824

Ref. No. P-13424

October 7, 2011

To: Anthony J.H. Ching, Executive Director
Hawaii Community Development Authority

From: Jesse K. Souki, Director

Subject: Special Management Area (SMA) Use Approval for Kewalo Basin Improvement Project at the Makai Area of Kakaako Community Development District (CDD)

2011 OCT 11 PM 2 07
RECEIVED
HAWAII COMMUNITY
DEVELOPMENT
AUTHORITY

OP File No.: SMA/11-4
Applicant: Hawaii Community Development Authority (HCDA)
Agent: Helber Hastert & Fee, Planner
Recorded Owner: State of Hawaii, HCDA
Tax Map Key: 2-1-058: portions 002, 035, 095 and 128
Location: Kewalo Basin, Honolulu, Oahu
Request: Replacement and Expansion of Wharf Infrastructure at Kewalo Basin Harbor

HCDA Development
Permit: MUZ 58-11
Chapter 343, HRS: Final Environmental Impact Statement for Kewalo Basin Repairs Project, June 2011
Estimated Cost: \$25 to 30 million

The HCDA's SMA Use Approval application for the Kewalo Basin Improvement Project at Kakaako Makai area, has been reviewed in accordance with the Coastal Zone Management (CZM) objectives and policies, Hawaii Revised Statutes (HRS) Section 205A-2, and the review guidelines, Hawaii Administrative Rules (HAR) Section 15-150-6.

The proposed development will involve demolition, replacement, and expansion of existing pier infrastructure at Kewalo Basin, to improve harbor capacity and safety. At full buildout, the number of boat slips would increase by 107 from 143 to 250, ranging from 35 feet to 120 feet in length. The project will also involve modernization of the harbor's potable water and electrical systems, and provide a new fire suppression system and new sewage pumpout.

HCDA's proposal does not include any alteration in the harbor entrance channel, or shoreline alternation in the vicinity of the harbor. Pursuant to HAR Section 15-150-9, the shoreline certification is waived for the proposed project.

The Office of Planning (OP) has found that the proposed development, with fulfillment of the conditions prescribed below, will not have any substantial, adverse environmental or ecological effect, and is consistent with the statutory objectives and policies, and regulatory guidelines cited above. Pursuant to HAR Chapter 15-150, SMA Use Approval is granted for the subject application, subject to the following conditions:

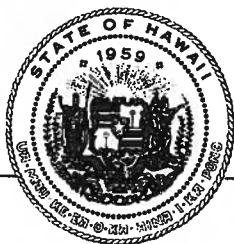
1. OP may impose additional conditions, restrictions, or requirements on this SMA Use Approval should unanticipated circumstances arise that require additional conditions to ensure compliance with HRS Chapter 205A.
2. This SMA Use Approval does not cover any proposed fueling facilities, including installation of fuel storage tanks near the Makai Pier Harbor Master's Office. Any modifications to the proposal or plans originally submitted to OP shall require an additional approval.
3. The applicant and contractors shall stop work and contact the State Historic Preservation Division (SHPD), Department of Land and Natural Resources, if any archaeological resources are discovered during construction. Subsequent work shall proceed only upon an archaeological clearance from SHPD.
4. The applicant and contractors shall implement site-specific best management practices with a water quality monitoring program, and apply containment devices, including silt curtains, booms, tarpaulins, and floats, as appropriate, to prevent any potential pollutant(s) discharge and polluted runoff associated with the proposed demolition and construction, and staging area from adversely impacting the State waters as specific in HAR Chapter 11-54.
5. The applicant shall enforce the Kewalo Basin Rules, HAR Chapter 15-212, to limit the transit speed of all vessels through the channel of Kewalo Basin Harbor to a slow-no-wake speed, in order to minimize any ingress and egress effects of vessel traffic on ocean recreational activities.
6. The applicant and contractors shall minimize potential traffic impacts generated from the proposed pier demolition and construction activities on the existing public access to the coastal recreation areas. Construction-related activities for the proposed project shall not affect park users parking.
7. The operation of the proposed project shall not interfere or restrict public access, including park users parking, to the ocean and the adjacent parks.
8. The applicant and contractors shall constrain the proposed staging area within one acre, and shall return the staging area to its original condition at minimum, upon

completion of use of the staging area or upon expiration of this SMA Use Approval, whichever occurs first.

9. The applicant and its authorized users shall properly position or shield lights to minimize adverse impacts of artificial light of the harbor facilities on the shoreline and ocean waters, and provide the needed shielding to lessen possible seabird strikes.
10. The applicant shall commence the proposed Kewalo Basin Harbor improvements project within three years from the date of this SMA Use Approval, and complete the project within five years from the date of this approval.
11. A time extension for this SMA Use Approval may be granted by OP upon review of a written request that shall clearly explain the circumstances. The written request shall be submitted to OP no less than 30 days prior to the expiration date of this SMA Use Approval.
12. The applicant shall complete all of the forgoing conditions. Otherwise, the applicant may be subject to fines pursuant to HAR Section 15-150-32, and required to take corrective actions at the applicant's expense. Failure to comply with the foregoing conditions may also result in revocation of this SMA Use Approval.

If you have any questions, please contact Shichao Li of our Coastal Zone Management Program at 587-2841.

c: Ms. Gail Renard, Helber Hastert & Fee, Planner
Mr. Bryan C. Yee, Department of the Attorney of General



OFFICE OF PLANNING STATE OF HAWAII

NEIL ABERCROMBIE
GOVERNOR

LEO R. ASUNCION
ACTING DIRECTOR
OFFICE OF PLANNING

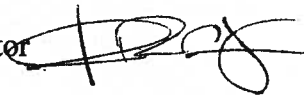
235 South Beretania Street, 6th Floor, Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804

Telephone: (808) 587-2846
Fax: (808) 587-2824
Web: <http://planning.hawaii.gov/>

Ref. No. P-14491

September 2, 2014

To: Anthony J.H. Ching, Executive Director
Hawaii Community Development Authority

From: Leo R. Asuncion, Acting Director 

Subject: Time Extension to the Special Management Area (SMA) Use Approval for
Kewalo Basin Improvement Project at the Makai Area of Kakaako Community
Development District

OP File No.:	SMA/11-4
Applicant:	Hawaii Community Development Authority (HCDA)
Recorded Owner:	State of Hawaii, HCDA
Tax Map Key:	2-1-058: portions 002, 035, 095 and 128
Location:	Kewalo Basin, Honolulu, Oahu
Request:	Replacement and Expansion of Wharf Infrastructure at Kewalo Basin Harbor
HCDA Development Permit:	MUZ 58-11
Chapter 343, HRS:	Final Environmental Impact Statement for Kewalo Basin Repairs Project, June 2011
Estimated Cost:	\$25 to 30 million

HCDA's request, received August 22, 2014, for an extension of time to the granted SMA Use Approval SMA/11-4 for Kewalo Basin Improvement Project at Kakaako Makai area has been reviewed in accordance with the Coastal Zone Management (CZM) objectives and policies, Hawaii Revised Statutes (HRS) § 205A-2, and the review guidelines, Hawaii Administrative Rules § 15-150-6.

Condition No. 10 of SMA/11-4 requires that the applicant shall commence the proposed Kewalo Basin Harbor improvements project within three years, and complete the project within five years, from the date of the subject SMA Use Approval, October 7, 2011. Under Condition No. 11, a time extension for the subject SMA Use Approval may be granted by the Office of Planning (OP) upon review of a written request, which shall be submitted to OP no less than 30 days prior to the expiration date of the subject SMA Use Approval.

Mr. Anthony J.H. Ching
September 2, 2014
Page 2

Given the circumstances and the timeline of construction that HCDA explains, OP has granted an extension of time to SMA/11-4 by amending Condition No. 10, with bracketed for deletion and underscored for addition, to read as follows:

10. The applicant shall commence the proposed Kewalo Basin Harbor improvements project within three years [from the date of this SMA Use Approval], and complete the project within [five] eight years from the date of this approval of time extension to this SMA Use Approval.

Except as modified herein, all other conditions of SMA/11-4, shall remain in force.

If you have any questions regarding this SMA/11-4 time extension, please contact Shichao Li of our CZM Program at (808) 587-2841.

c: Mr. Nick Vanderboom, Howard Hughes Corporation
Mr. Bryan Yee, Department of the Attorney of General

NEIL ABERCROMBIE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
OFFICE OF CONSERVATION AND COASTAL LANDS
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

WILLIAM J. AILA, JR.
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

GUY H. KAULUKUKUI
FIRST DEPUTY

WILLIAM M. TAM
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

Ref.:OCCL:MC

CDUP OA-3610

Gail Renard
Helber Hastert & Fee
733 Bishop Street, Suite 2590
Honolulu, HI 96813

FEB 10 2012

Dear Ms. Renard,

SUBJECT: Conservation District Use Permit (CDUA) OA-3610
Kewalo Basin Repair Project
Kaka'ako, Kona District, O'ahu
TMK: (1) 2-1-058: pors. 002, 035, 095, and 128 (submerged lands)

This is to inform you that on February 10, 2012, the Board of Land and Natural Resources approved Conservation District Use Permit (CDUP) OA-3610 for the Kewalo Basin Repair Project at Kaka'ako, Kona District, O'ahu, TMK (1) 2-1-058: pors. 002, 035, 095, and 128 (submerged lands), subject to the following terms and conditions:

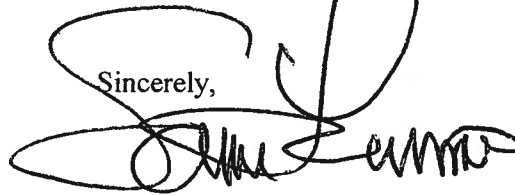
1. The permittee shall comply with all applicable statutes, ordinances, rules, and regulations of the federal, state, and county governments, and applicable parts of this chapter;
2. The permittee, its successors and assigns, shall indemnify and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, and death arising out of any act or omission of the applicant, its successors, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit;
3. The permittee shall obtain appropriate authorization from the department for the occupancy of state lands, if applicable;
4. The permittee shall comply with all applicable department of health administrative rules;
5. Before proceeding with any work authorized by the department or the board, the permittee shall submit four copies of the construction plans and specifications to the chairperson or an authorized representative for approval for consistency with the conditions of the permit and the declarations set forth in the permit application. Three of the copies will be returned to the permittee. Plan approval by the chairperson does not constitute approval required from other agencies;
6. Unless otherwise authorized, any work or construction to be done on the land shall be initiated within one year of the approval of such use, in accordance with construction plans that have been signed by the chairperson, and shall be completed within fifteen years of the approval of such use. The permittee shall notify the department in writing when construction activity is initiated and when it is completed;
7. All representations relative to mitigation set forth in the accepted environmental assessment or impact statement for the proposed use are incorporated as conditions of the permit;

8. The conditions of the project's Special Management Area Use Permit are incorporated as conditions of the permit, including but not limited to:
 - a. The permittee shall implement site-specific best management practices with a water quality monitoring program, and apply containment devices, including silt curtains, booms, tarpaulins, and floats, as appropriate, to prevent any potential pollutant(s) discharge and polluted runoff associated with the proposed demolition and construction, and staging area from adversely impacting the State waters as specified in HAR Chapter 11-54.
 - b. The permittee shall enforce the Kewalo Basin Rules, HAR Chapter 15-212, to limit the transit speed of all vessels through the channel of Kewalo Basin Harbor to a slow-no-wake speed, in order to minimize the impacts of vessel traffic on ocean recreation activities;
 - c. The permittee shall minimize potential traffic impacts generated from the proposed pier demolition and construction activities on the existing public access to the coastal recreation areas. Construction-related activities for the proposed project shall not affect park users' parking;
 - d. The operation of the proposed project shall not interfere or restrict public access, including park users' parking, to the ocean and adjacent parks;
 - e. The permittee shall constrain the proposed staging area within one acre, and shall return the staging area to its original condition at minimum, upon completion of the use of the staging area or upon expiration of this SMA Use Approval, whichever occurs first; and
 - f. The permittee and its authorized users shall properly position or shield lights to minimize adverse impacts of artificial light of the harbor facilities on the shoreline and ocean waters, and provide the needed shielding to lessen possible seabird strikes.
9. The permittee understands and agrees that the permit does not convey any vested right(s) or exclusive privilege;
10. In issuing the permit, the department and board have relied on the information and data that the permittee has provided in connection with the permit application. If, subsequent to the issuance of the permit such information and data prove to be false, incomplete, or inaccurate, this permit may be modified, suspended, or revoked, in whole or in part, and the department may, in addition, institute appropriate legal proceedings;
11. When provided or required, potable water supply and sanitation facilities shall have the approval of the department of health and the county department of water supply;
12. Provisions for access, parking, drainage, fire protection, safety, signs, lighting, and changes on the landscape shall be provided;
13. Where any interference, nuisance, or harm may be caused, or hazard established by the use, the permittee shall be required to take measures to minimize or eliminate the interference, nuisance, harm, or hazard;
14. Obstruction of public roads, trails, lateral shoreline access, and pathways shall be avoided or minimized. If obstruction is unavoidable, the permittee shall provide alternative roads, trails, lateral beach access, or pathways acceptable to the department;
15. During construction, appropriate mitigation measures shall be implemented to minimize impacts to off-site roadways, utilities, and public facilities;
16. Artificial light from exterior lighting fixtures, including but not limited to floodlights, uplights, or spotlights used for decorative or aesthetic purposes, shall be prohibited if the light directly illuminates or is directed to project across property boundaries toward the shoreline and ocean waters, except as may be permitted pursuant to section 205A-71, HRS. All exterior lighting shall be shielded to protect the night sky;

17. The permittee acknowledges that the approved work shall not hamper, impede, or otherwise limit the exercise of traditional, customary, or religious practices of native Hawaiians in the immediate area, to the extent the practices are provided for by the Constitution of the State of Hawaii, and by Hawaii statutory and case law; and
18. Other terms and conditions as prescribed by the chairperson.
19. Failure to comply with any of these conditions shall render this Conservation District Use Permit null and void.

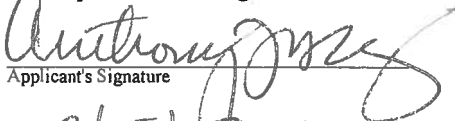
Please acknowledge receipt of this approval, with the above noted conditions, in the space provided below. Please sign two copies. Retain one and return the other within thirty (30) days. Should you have any questions on any of these conditions feel free to contact Michael Cain at 587-0048.

Sincerely,



Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands

Receipt acknowledged:


Applicant's Signature

2/15/12
Date

DAVID Y. IGE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

CARTY S. CHANG
INTERIM CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DANIEL S. QUINN
INTERIM FIRST DEPUTY

W. ROY HARDY
ACTING 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

ref:OCCL:MC

Extension OA-15-08

Scott Ezer
HHF Planners
Pacific Guardian Center, Makai Tower
733 Bishop Street, Suite 2590
Honolulu, HI 96813

FEB 17 2015

Dear Mr. Ezer,

SUBJECT: Extension Request OA-15-08, Time Extension Request for Conservation District Use Permit (CDUP) OA-3610 regarding the Kewalo Basin Repair Project
Kaka'ako, Kona District, O'ahu
TMK (1) 2-1-058: pors. 002, 035, 095, 128

This is to inform you that on February 13, 2013, the Board of Land and Natural Resources approved the Hawai'i Community Development Corporation's request for an extension of the deadlines of CDUP OA-3610 for the Kewalo Basin Repair Project in Kaka'ako, Kona District, O'ahu, TMKs (1) 2-1-058: pors. 002, 035, 095, 128, subject to the following conditions:

1. That Condition 6 of OA-3610 be amended to read: *Unless otherwise authorized, any work or construction to be done on the land shall be initiated by February 10, 2017, in accordance with construction plans that have been signed by the chairperson, and shall be completed by February 10, 2029. The permittee shall notify the department in writing when construction activity is initiated and when it is completed;* and
2. That all other conditions imposed by the Board under CDUP OA-3610 shall remain in effect.

Please acknowledge receipt of this approval, with the above noted conditions, in the space provided below. Please sign two copies. Retain one and return the other within thirty days. Should you have any questions feel free to contact Michael Cain at 587-0048.

Sincerely,

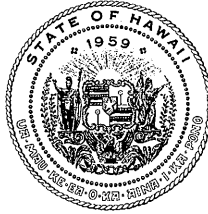
Samuel J. Lemmon, Administrator
Office of Conservation and Coastal Lands

Receipt acknowledged:

Permittee's Signature

MAR - 3 2015
Date

DAVID Y. IGE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
OFFICE OF CONSERVATION AND COASTAL LANDS
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

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

KEKOA KALUHIWA
FIRST DEPUTY

JEFFREY T. PEARSON
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
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FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOO LAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

Ref.:OCCL:MC

Corr OA-16-75

OCT 29 2015

Scott Ezer
HHF Planners
Pacific Guardian Center, Makai Tower
733 Bishop Street, Suite 2590
Honolulu, HI 96813

Dear Mr. Ezer,

SUBJECT: Conservation District Use Permit (CDUP) OA-3610
Kewalo Basin Repair Project
Kaka'ako, Kona District, O'ahu
TMK (1) 2-1-058: pors. 002, 035, 095, 128

The Department of Land and Natural Resources (DLNR) Office of Conservation and Coastal Lands (OCCL) has received the Plot Plan for Fuel Tanks you provided, which is part of the Hawai'i Community Development Corporation's Kewalo Basin Repair Project.

On December 13, 2013, the Board of Land and Natural Resources approved Conservation District Use Permit (CDUP) OA-3610 for the portions of the project that lie within the State Land Use Conservation District.

The plot plan incorporates a Boundary Interpretation that the State Land Use Commission prepared (ref. Boundary Interpretation No. 10-02). This shows that the proposed fueling facilities lie outside the Conservation District, and are thus outside of DLNR's jurisdiction.

Should you have any questions, please feel free to contact Michael Cain of OCCL at 587-0048.

Sincerely,

A large, stylized handwritten signature in black ink, which appears to read "Samuel S. Lemmo".

Samuel S. Lemmo, Administrator
Office of Conservation and Coastal Lands

copy: Hawai'i Community Development Corporation (attn.. Anthony Ching)

Record of Telephone Conversation

Date: Aug. 25, 2015 **Time:** 3:30 pm **Project #** 2014131
Recorded by: G. Renard **Project Name:** Kewalo Basin Fuel Dock
Talked with: Edward Chen **of** DOH Clean Water Branch
Nature of call: **Incoming** ☐ **Outgoing** X **Phone #** 586-4309
Main Subject of Call: Section 401 Water Quality Certification for Kewalo Basin fuel system

Called DOH to discuss the need for a Sec. 401 WQC for the proposed Kewalo Basin fuel storage and delivery system.

Ed asked whether the overall KB project was issued a WQC; upon researching the project's Letter of Permission number (File No. POH-2009-00303, dtd Jan. 18, 2012), he could not find a record of a 401 WQC. Per Ed, the LOP date falls within a period where the USACE administration was transitioning from a position that typically did not require 401 WQC for projects that did not involve dredging or "fill" (installation of piles does not constitute "fill" under Department of the Army permits) to one more broadly interprets what types of actions have the potential to result in discharges of pollutants into navigable waters (as defined in HRS 342-D1).

I offered to meet with DOH CWB to discuss project details and its potential to trigger a WQC; Ed declined and recommended consulting with USACE for its determination of whether a 401 WQC (or waiver) is needed for the project. If it determines that no 401 WQC is needed, DOH would then review the determination and either concur with it or disagree and impose a requirement for a WQC.

In short, as a part of the USACE permit process, DOH Clean Water Branch will ultimately decide whether a 401 WQC will be required.

KEWALO BASIN HARBOR IMPROVEMENTS

TMK: 2-1-058:131

HONOLULU

OAHU

HAWAII

1125 ALA MOANA BOULEVARD
HONOLULU, HI 96814

PROJECT TEAM

CIVIL, STRUCTURAL,
MECHANICAL, ELECTRICAL

COFFMAN ENGINEERS, INC.
851 FORT STREET, SUITE 300
HONOLULU, HAWAII 96813

DESIGN ASSISTANCE

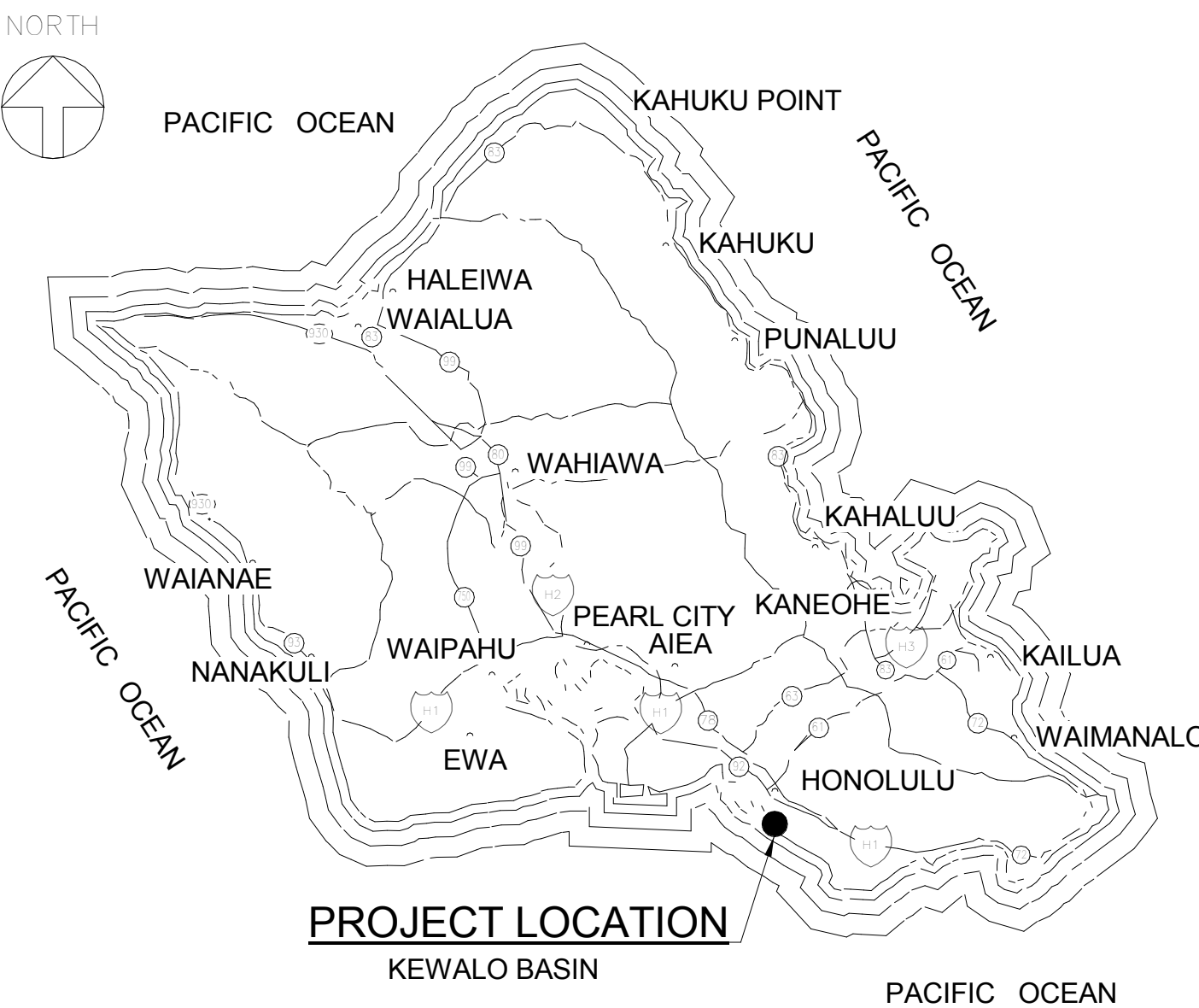
SEA ENGINEERING, INC.
863 N. NIMITZ HWY.
HONOLULU, HAWAII 96817

CLIENT

KEWALO HARBOR DEVELOPMENT COMPANY, LLC
1240 ALA MOANA BLVD, SUITE 200
HONOLULU, HAWAII 96814

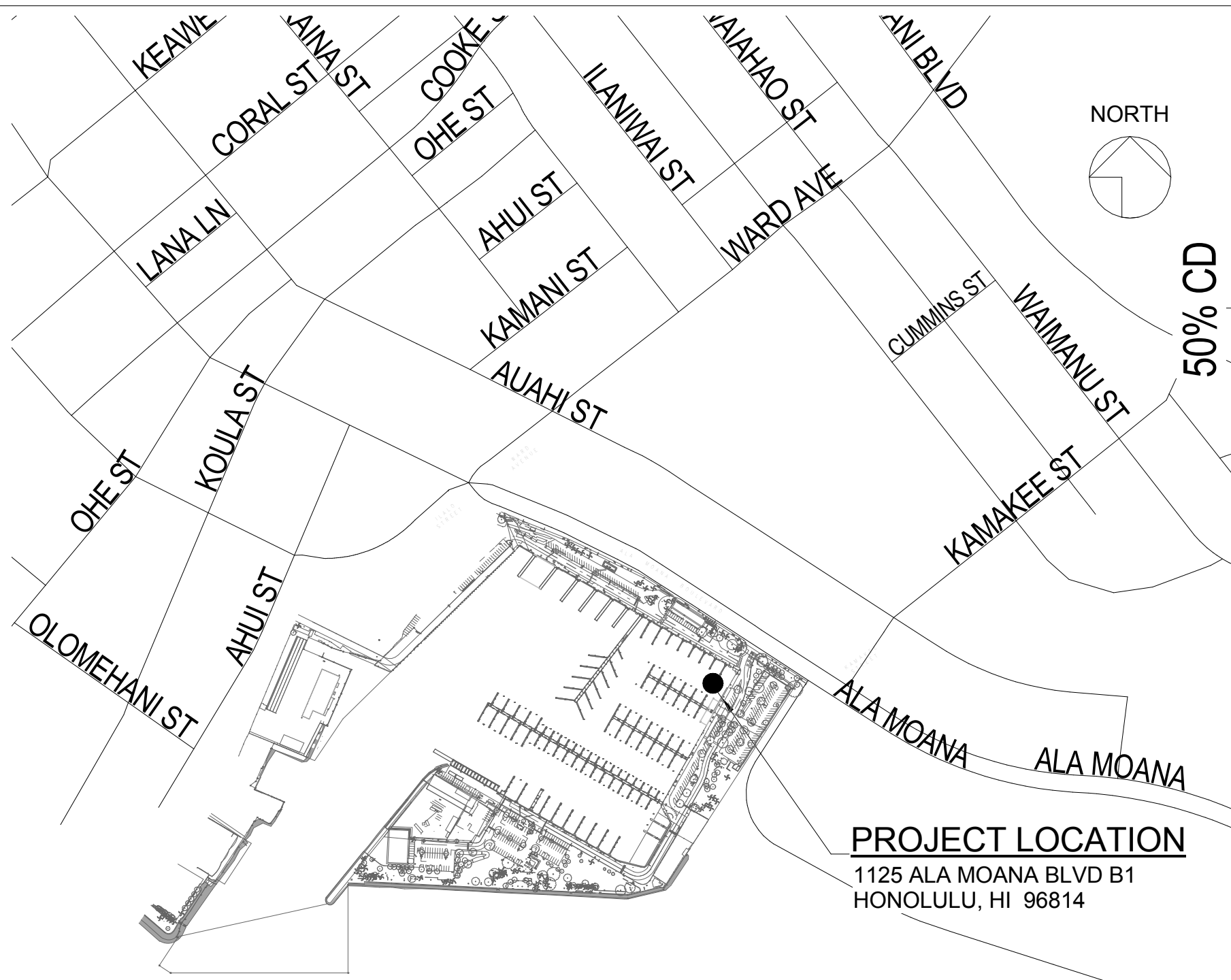
VICINITY MAP

NOT TO SCALE



LOCATION MAP

NOT TO SCALE



PROJECT DATA

CODE REFERENCE: INTERNATIONAL BUILDING CODE, 2006 EDITION
OCCUPANCY GROUP: UTILITY AND MISCELLANEOUS, GROUP U
CONSTRUCTION TYPE: TYPE VB
NO. OF FLOORS: 1
PROJECT FLOOR LEVEL: GROUND FLOOR
PROJECT FLOOR AREA: NOT APPLICABLE
FIRE SPRINKLER: NONE
OCCUPANT LOAD: NOT APPLICABLE
REQUIRED EXITS: NOT APPLICABLE

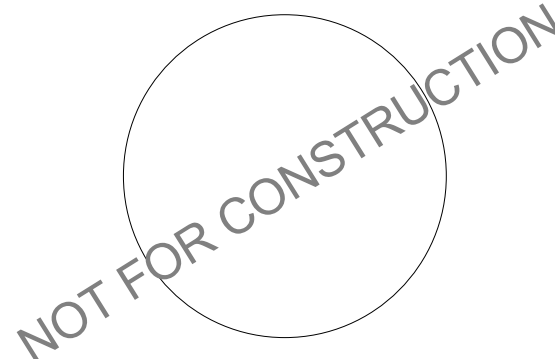
ZONING INFORMATION

CODE REFERENCE: LAND USE ORDINANCE. DEPARTMENT OF PLANNING AND PERMITTING: CITY AND COUNTY OF HONOLULU
ADDRESS: 1129 ALA MOANA BLVD, HONOLULU, HAWAII
TMK: 2-1-058:131
LOT AREA: 44 ACRES
ZONING (LUO): INDUSTRIAL - KAKAOKO COMMUNITY DEVELOPMENT DISTRICT
FLOOD ZONE: AE/VE
SMA: WITHIN SPECIAL MANAGEMENT AREA
SPECIAL DISTRICT: NOT IN SPECIAL DISTRICT
HEIGHT LIMIT: NOT APPLICABLE
EXISTING FLOOR AREA: NOT APPLICABLE
PROPOSED FLOOR AREA: NOT APPLICABLE
TOTAL BUILDING AREA: NOT APPLICABLE
PARKING: NOT APPLICABLE

GENERAL NOTES

FIRE SAFTEY NOTES:

1. 16.1.1 STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION OPERATIONS, INCLUDING THOSE IN UNDERGROUND LOCATIONS, SHALL COMPLY WITH NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION ALTERATION, AND DEMOLITION OPERATIONS, AND THIS CHAPTER, 2006 NFPA 1.



KEWALO BASIN
HARBOR IMPROVEMENTS
HAWAII
HONOLULU

TITLE SHEET, VICINITY MAP, LOCATION MAP

REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO. 150172

DRAWN BY: AH

DESIGNED BY: PB

CHECKED BY: BM

REVIEWED BY: -

DATE 10/16/15

T-001

10/16/2015 5:16:29 PM

D

C

B

A

1

2

3

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C-LD101	PIER "LD" CIVIL PLAN
C-501	CIVIL DETAILS

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S-103	GENERAL STRUCTURAL NOTES
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S-B102	PARTIAL PIER "B" STRUCTURAL PLAN
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S-C102	PARTIAL PIER "C" STRUCTURAL PLAN
S-C103	PARTIAL PIER "C" STRUCTURAL PLAN
S-C104	PARTIAL PIER "C" STRUCTURAL PLAN
S-C105	PARTIAL PIER "C" STRUCTURAL PLAN
S-D101	PARTIAL PIER "D" STRUCTURAL PLAN
S-D102	PARTIAL PIER "D" STRUCTURAL PLAN
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S-D104	PARTIAL PIER "D" STRUCTURAL PLAN
S-D105	PARTIAL PIER "D" STRUCTURAL PLAN
S-E101	PARTIAL PIER "E" STRUCTURAL PLAN
S-E102	PARTIAL PIER "E" STRUCTURAL PLAN
S-E103	PARTIAL PIER "E" STRUCTURAL PLAN
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M-101	OVERALL MECHANICAL DEMO
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M-B102	PARTIAL PIER "B" MECHANICAL PLAN
M-C101	PARTIAL PIER "C" MECHANICAL PLAN
M-C103	PARTIAL PIER "C" MECHANICAL PLAN
M-C104	PARTIAL PIER "C" MECHANICAL PLAN
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M-D101	PARTIAL PIER "D" MECHANICAL PLAN
M-D102	PARTIAL PIER "D" MECHANICAL PLAN
M-D103	PARTIAL PIER "D" MECHANICAL PLAN
M-D104	PARTIAL PIER "D" MECHANICAL PLAN
M-D105	PARTIAL PIER "D" MECHANICAL PLAN
M-E101	PARTIAL PIER "E" MECHANICAL PLAN
M-E102	PARTIAL PIER "E" MECHANICAL PLAN
M-E103	PARTIAL PIER "E" MECHANICAL PLAN
M-F101	PARTIAL PIER "F" MECHANICAL PLAN
M-F102	PARTIAL PIER "F" MECHANICAL PLAN
M-F103	PARTIAL PIER "F" MECHANICAL PLAN
M-FW101	PARTIAL PIER "FW" MECHANICAL PLAN
M-FW102	PARTIAL PIER "FW" MECHANICAL PLAN
M-FW103	PARTIAL PIER "FW" MECHANICAL PLAN
M-FW104	PARTIAL PIER "FW" MECHANICAL PLAN
M-HB101	PARTIAL PIER "HB" MECHANICAL PLAN

4

MECHANICAL (CONT'D)

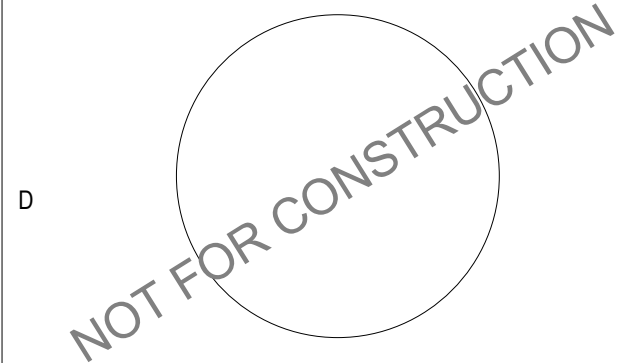
M-HB102	PARTIAL PIER "HB" MECHANICAL PLAN
M-HB103	PARTIAL PIER "HB" MECHANICAL PLAN
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E-005	ONE LINE DIAGRAM - HERRINGBONE PIER
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E-C101	PARTIAL PIER "C" ELECTRICAL PLAN
E-C102	PARTIAL PIER "C" ELECTRICAL PLAN
E-C103	PARTIAL PIER "C" ELECTRICAL PLAN
E-C104	PARTIAL PIER "C" ELECTRICAL PLAN
E-C105	PARTIAL PIER "C" ELECTRICAL PLAN
E-D101	PARTIAL PIER "D" ELECTRICAL PLAN
E-D102	PARTIAL PIER "D" ELECTRICAL PLAN
E-D103	PARTIAL PIER "D" ELECTRICAL PLAN
E-D104	PARTIAL PIER "D" ELECTRICAL PLAN
E-D105	PARTIAL PIER "D" ELECTRICAL PLAN
E-E101	PARTIAL PIER "E" ELECTRICAL PLAN
E-E102	PARTIAL PIER "E" ELECTRICAL PLAN
E-E103	PARTIAL PIER "E" ELECTRICAL PLAN
E-F101	PARTIAL PIER "F" ELECTRICAL PLAN
E-F102	PARTIAL PIER "F" ELECTRICAL PLAN
E-F103	PARTIAL PIER "F" ELECTRICAL PLAN
E-FW101	PARTIAL PIER "FW" ELECTRICAL PLAN
E-FW102	PARTIAL PIER "FW" ELECTRICAL PLAN
E-FW103	PARTIAL PIER "FW" ELECTRICAL PLAN
E-FW104	PARTIAL PIER "FW" ELECTRICAL PLAN
E-HB101	PARTIAL PIER "HB" ELECTRICAL PLAN
E-HB102	PARTIAL PIER "HB" ELECTRICAL PLAN
E-HB103	PARTIAL PIER "HB" ELECTRICAL PLAN
E-LD101	PIER "LD" ELECTRICAL PLAN

5

50% CD



KEWALO BASIN
HARBOR IMPROVEMENTS
HAWAII
HONOLULU
INDEX OF DRAWINGS

REVISIONS		BY	DESCRIPTION	DATE	NO.						
PROJECT NO.		150172									
DRAWN BY:		AH									
DESIGNED BY:		PB									
CHECKED BY:		BM									
REVIEWED BY:		-									
DATE		10/16/15									

T-002

D

C

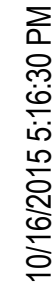
B

A

DRAWING TITLE

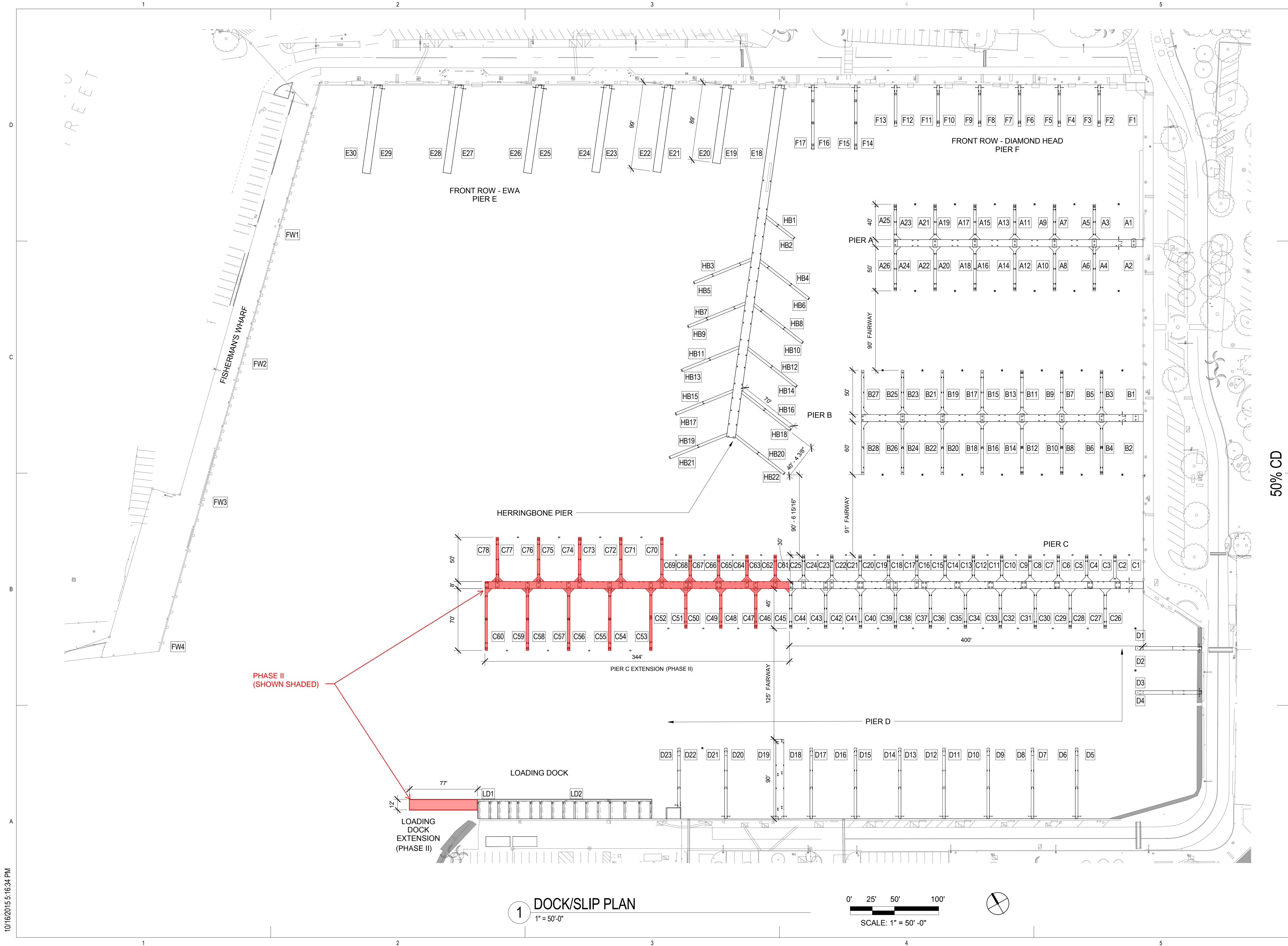
KEWALO BASIN
HARBOR IMPROVEMENTS
HAWAII

INDEX OF DRAWINGS



T-100

10/16/2015 5:16:34 PM



COFFMAN

ENGINEERS

851 Fort Street, Suite 300 | Honolulu, Hawaii 96813

ph 808.687.8884 | fax 808.687.8883

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LASTING

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KEWALO BASIN

HARBOR IMPROVEMENTS

HONOLULU

HAWAII

DRAWING TITLE

DOCK/SLIP PLAN

REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO.

150172

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AH

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PB

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BM

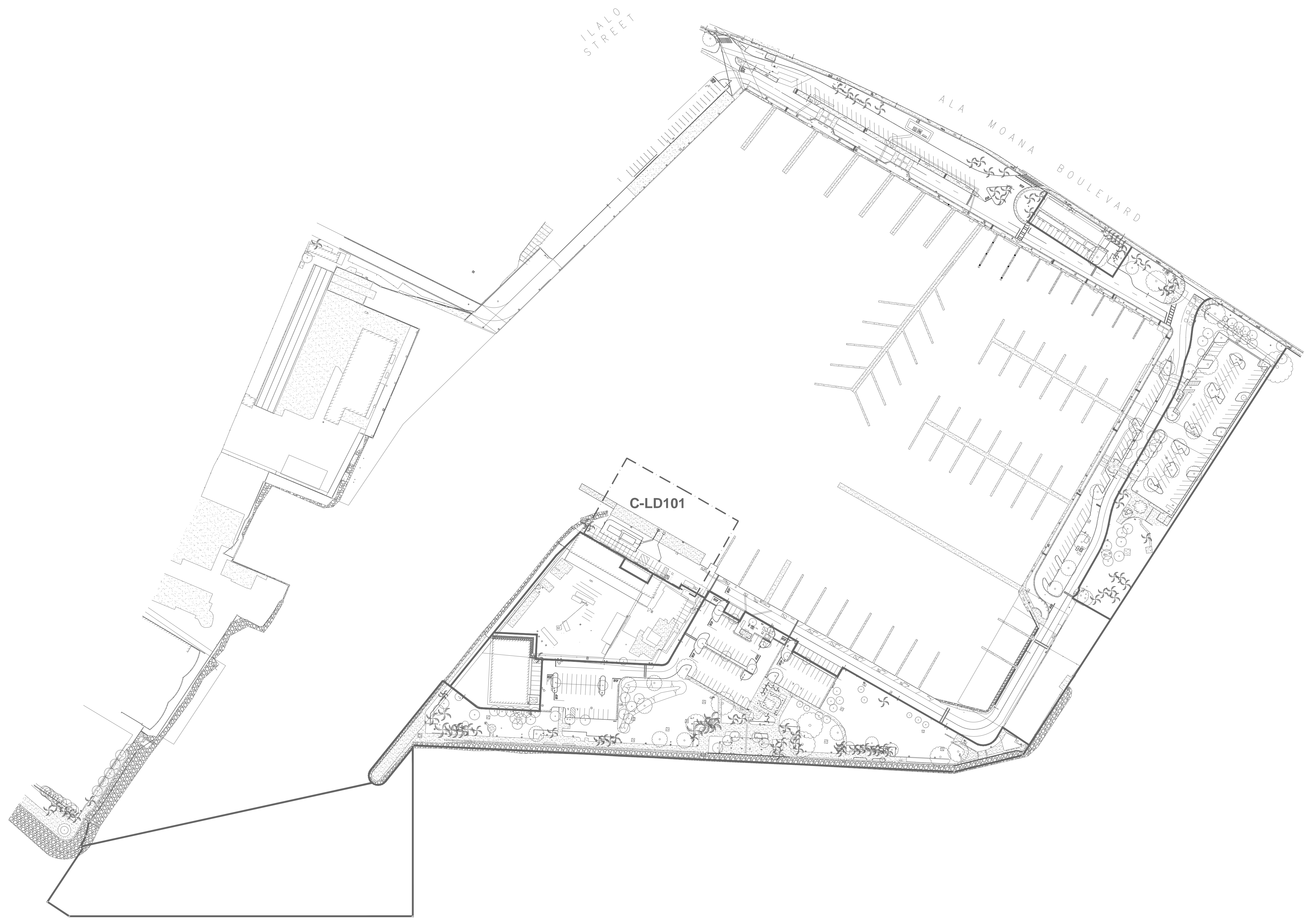
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DATE

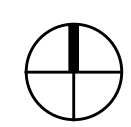
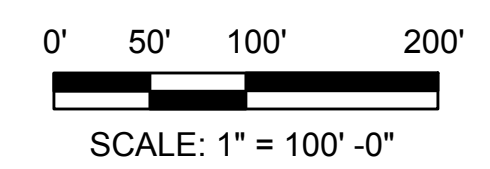
10/16/15

T-101

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1 OVERALL SITE PLAN
1"=100'



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KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU HAWAII

OVERALL SITE PLAN

DRAWING TITLE

REVISIONS		BY
NO.	DATE	DESCRIPTION

PROJECT NO. 150172

DRAWN BY: JSG

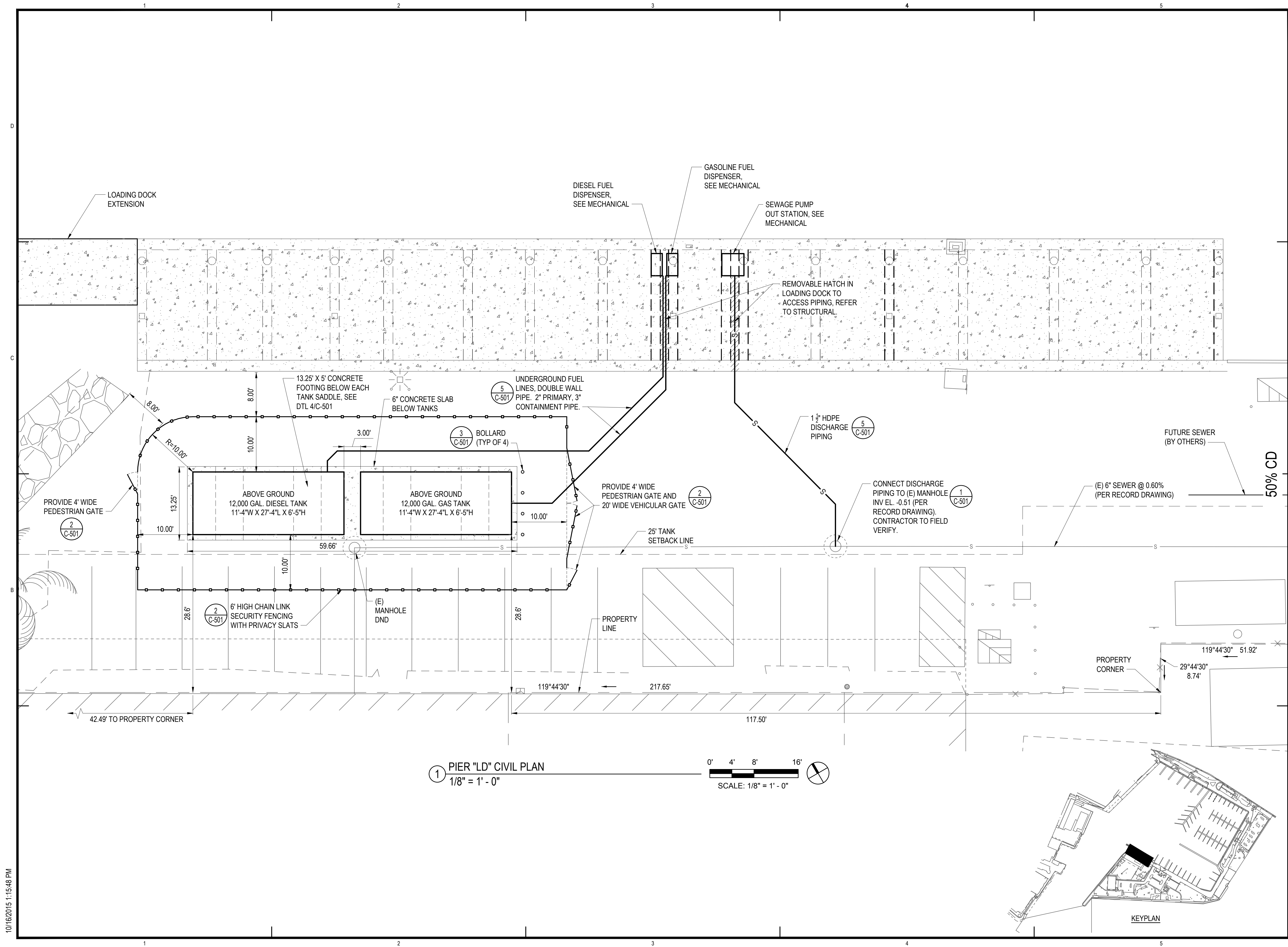
DESIGNED BY: JSG

CHECKED BY: BDM

REVIEWED BY: BDM

DATE 10/09/15

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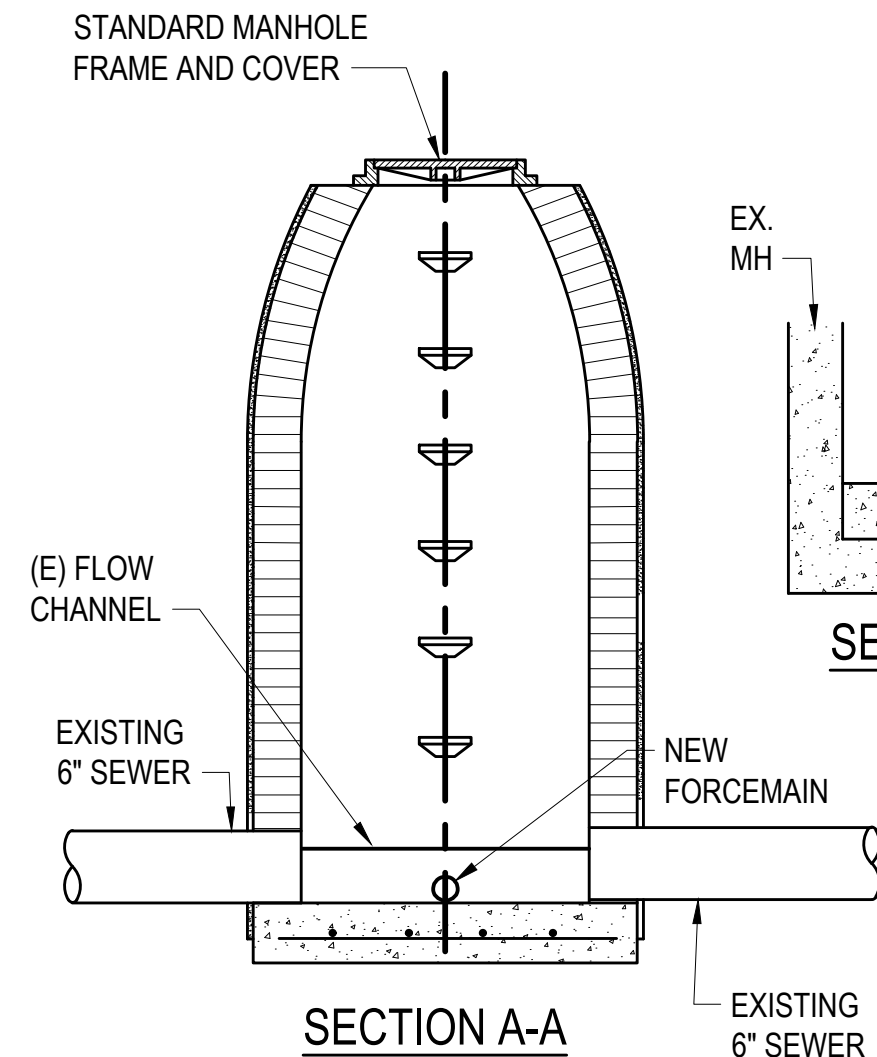
KEWALO BASIN
HARBOR IMPROVEMENTS
HAWAII

PIER "LD" CIVIL PLAN

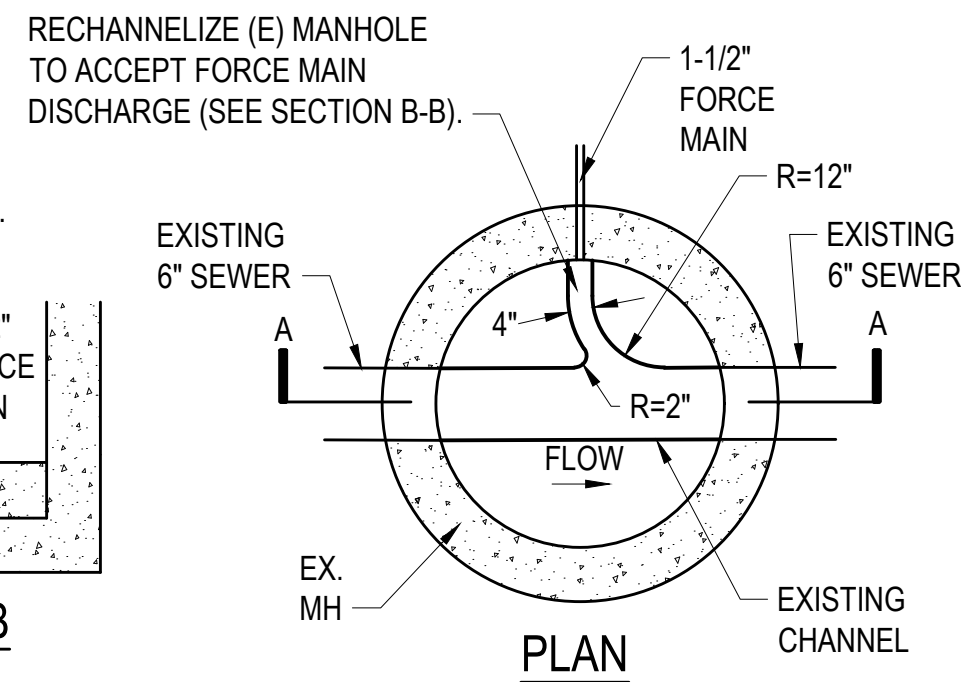
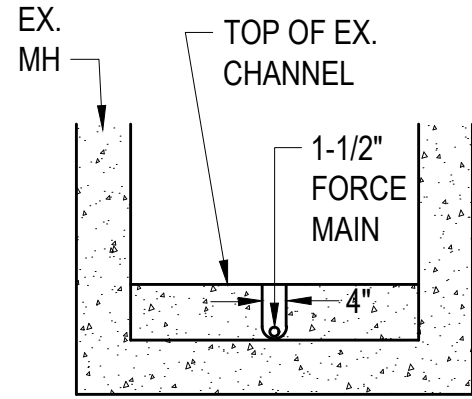
NO.	DATE	DESCRIPTION	BY

PROJECT NO.	150172
DRAWN BY:	JSG
DESIGNED BY:	JSG
CHECKED BY:	BDM
REVIEWED BY:	BDM
DATE	10/09/15

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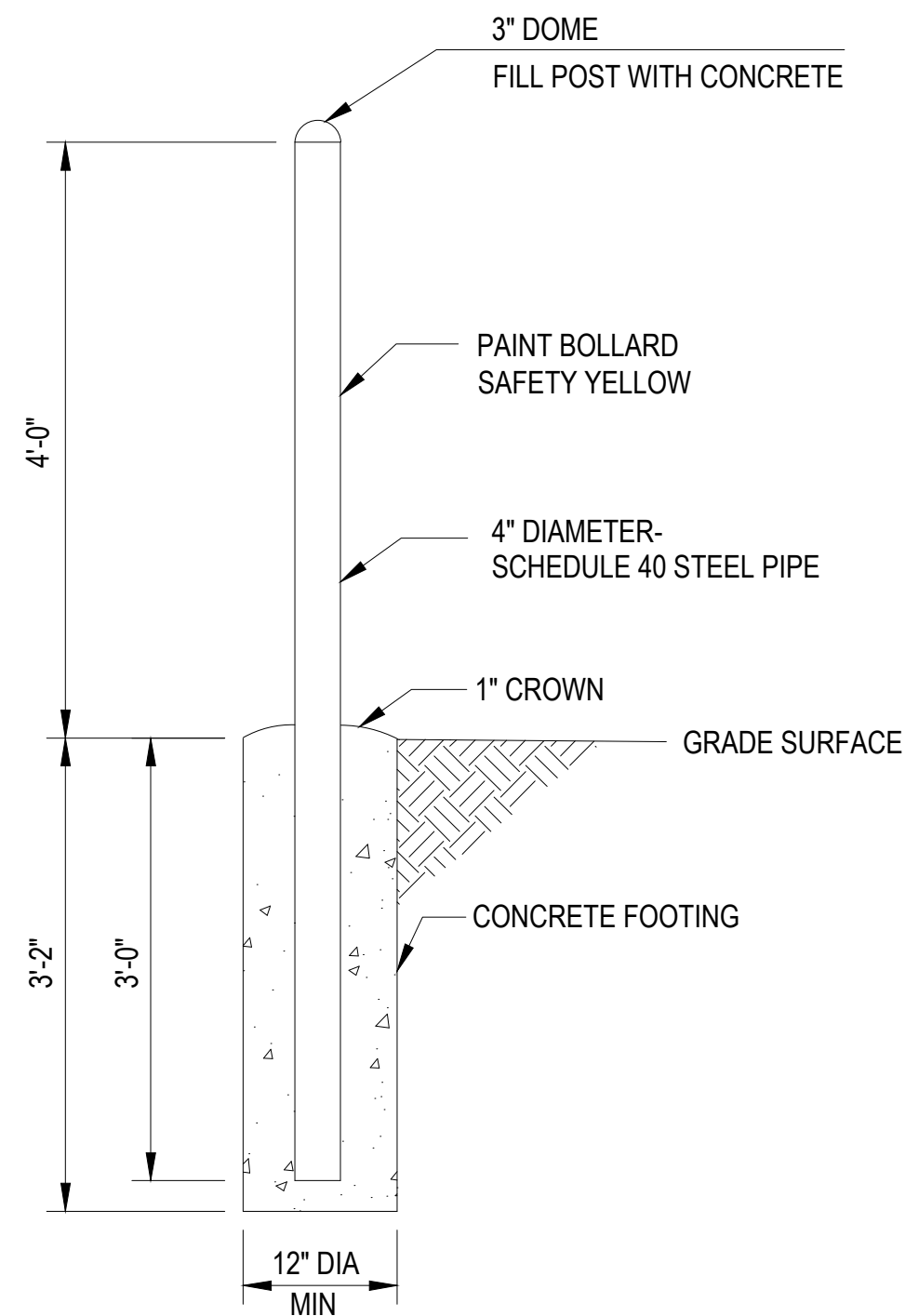


SECTION B-B

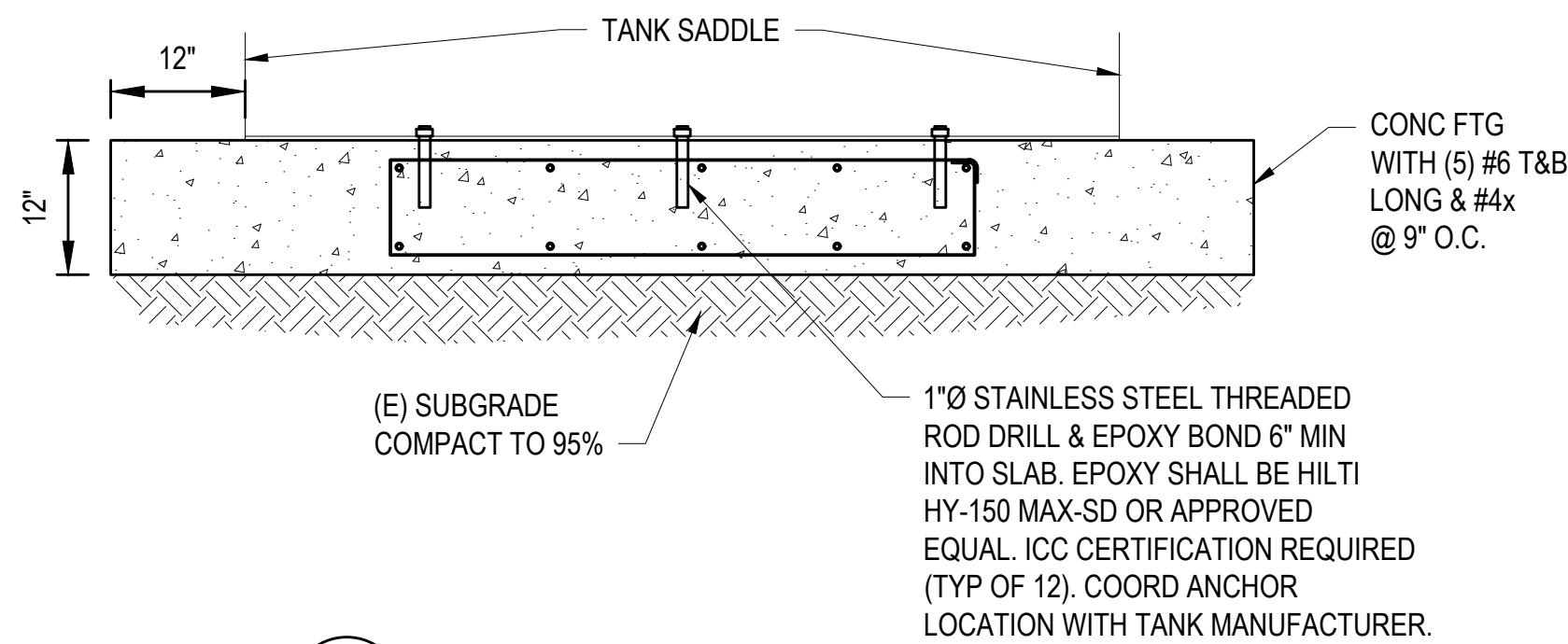


- NOTES:
1. SAWCUT AND CHIP OUT EXISTING MANHOLE FLOOR TO CREATE WASH FOR FORCE MAIN.
 2. FILL IN AND SMOOTH OUT ANY CRACKED OR BROKEN AREAS WITH NON-SHRINK GROUT.
 3. IF A SEALANT IS PRESENT IN THE MANHOLE, REPAIR AND RE-SEAL ALL DAMAGED AREAS IN KIND.
 4. MAINTAIN EXISTING FLOW AND CONTROL DEBRIS WITH GRAVITY BYPASS DEVICE CHERNE BIG-MOUTH FLOW-THROUGH, OR APPROVED EQUAL.
 5. GROUT NEW FORCE MAIN CONNECTION TO MANHOLE.

1 FORCE MAIN TIE IN TO MANHOLE
(NTS)
C-501

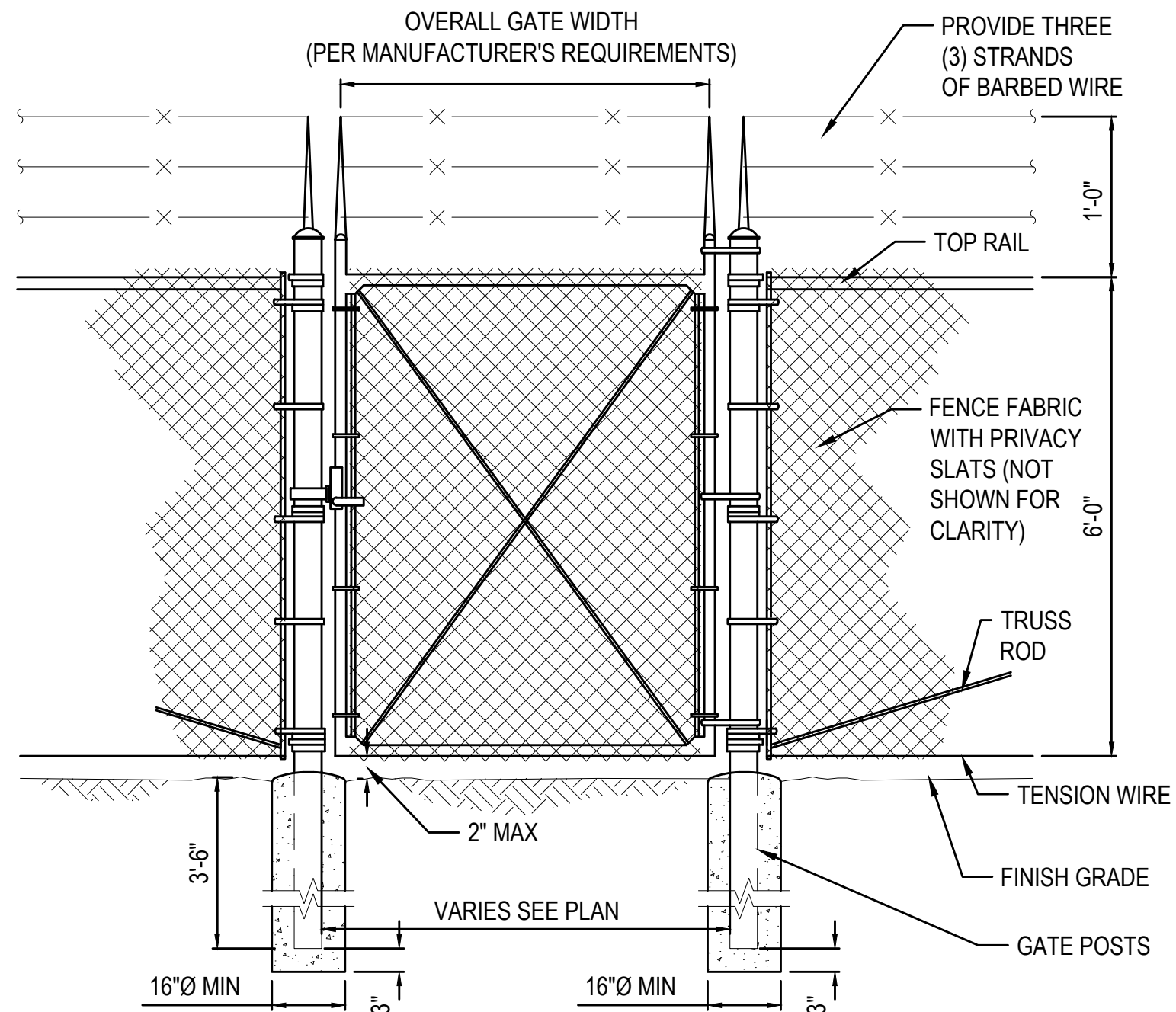


3 BOLLARD
(NTS)
C-501

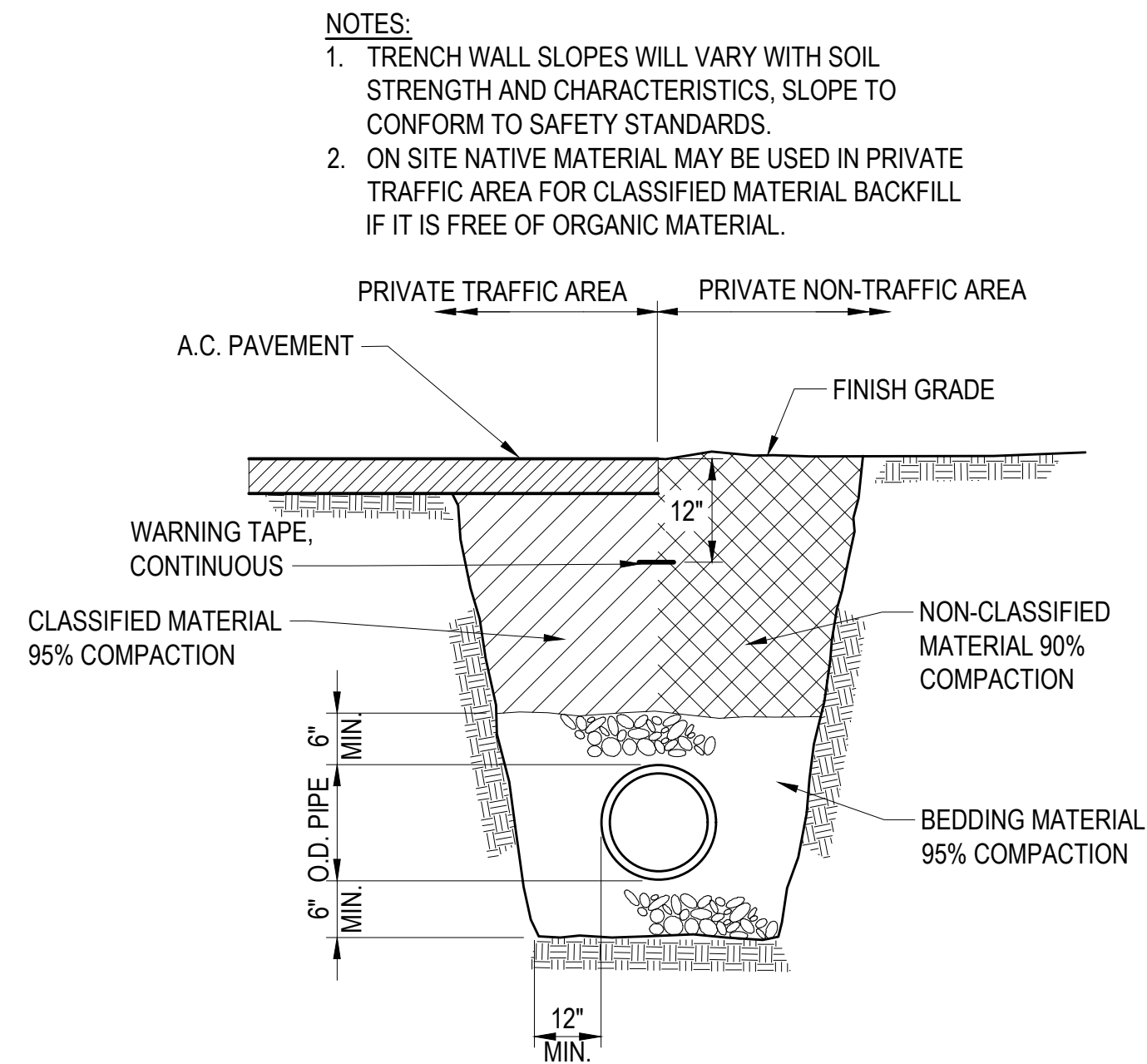


4 FUEL TANK FOUNDATION
SCALE: 3/4" = 1'-0"
C-501

(E) SUBGRADE
COMPACT TO 95%



2 SECURITY FENCE AND GATE
(NTS)
C-501



NOTE: DETAIL FOR USE WHEN
OUTSIDE OF PUBLIC RIGHT-OF-WAY.

5 STANDARD TRENCH DETAIL FOR
USE IN FUEL AND SEWER LINES
(NTS)
C-501

NOT FOR CONSTRUCTION

KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU HAWAII
DRAWING TITLE
CIVIL DETAILS

REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO.	150172
DRAWN BY:	JSG
DESIGNED BY:	JSG
CHECKED BY:	BDM
REVIEWED BY:	BDM
DATE	10/09/15

C-501

10/16/2015 4:57:36 PM



1 OVERALL SITE PLAN
1" = 100'-0"

DOCK EQUIPMENT SCHEDULE

Count	Description
50	DOCK BOX 20"W X 40"L X 22"H
125	HARBORMATE DOCK BOX
18	LIGHTHOUSE PEDESTAL

COLUMN SCHEDULE

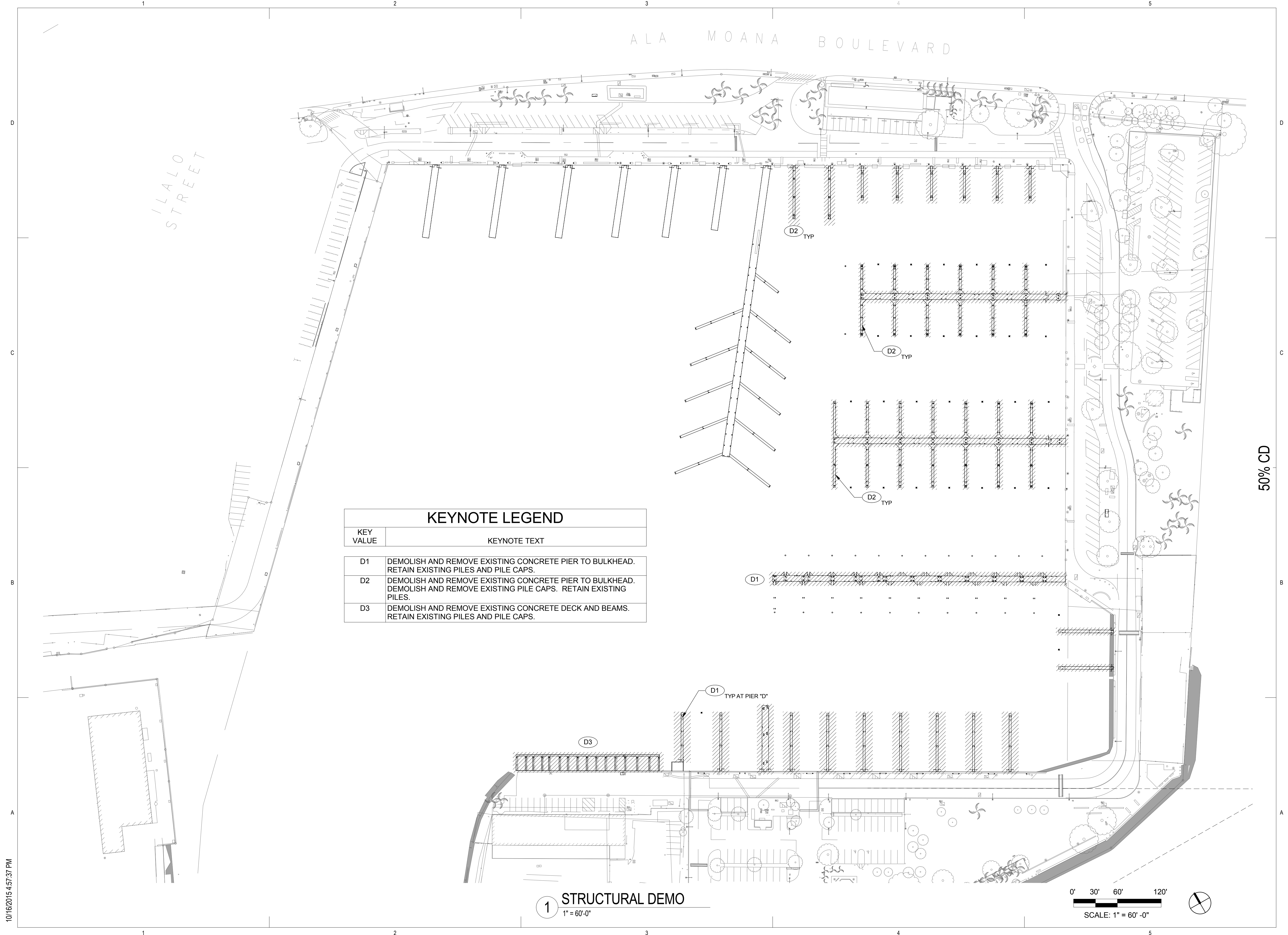
Count	Type
207	Octagonal Pile - 16.5 in

NOT FOR CONSTRUCTION

KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU HAWAII
OVERALL STRUCTURAL SITE PLAN

REVISIONS		BY	DATE	DESCRIPTION
NO.				
PROJECT NO.	150172			
DRAWN BY:	AH			
DESIGNED BY:	PB			
CHECKED BY:	BM			
REVIEWED BY:	-			
DATE	10/16/15			

10/16/2015 4:57:37 PM



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
D1	DEMOLISH AND REMOVE EXISTING CONCRETE PIER TO BULKHEAD. RETAIN EXISTING PILES AND PILE CAPS.
D2	DEMOLISH AND REMOVE EXISTING CONCRETE PIER TO BULKHEAD. DEMOLISH AND REMOVE EXISTING PILE CAPS. RETAIN EXISTING PILES.
D3	DEMOLISH AND REMOVE EXISTING CONCRETE DECK AND BEAMS. RETAIN EXISTING PILES AND PILE CAPS.

NOT FOR CONSTRUCTION

KEWALO BASIN HARBOR IMPROVEMENTS HONOLULU, HAWAII		DRAWING TITLE	
STRUCTURAL DEMO			
REVISIONS	DESCRIPTION	BY	
NO.	DATE		
PROJECT NO.		150172	
DRAWN BY:		AH	
DESIGNED BY:		PB	
CHECKED BY:		BM	
REVIEWED BY:			
DATE		10/16/15	
		S-101	

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GENERAL STRUCTURAL NOTES:

THE FOLLOWING NOTES APPLY UNLESS SHOWN OTHERWISE:

BUILDING CODES AND STANDARDS

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE REGULATIONS AND STANDARDS LISTED BELOW. ALL ARE LISTED BY THEIR BASIC DESIGNATION ONLY. IF PUBLICATION DATES ARE NOT LISTED, THE LATEST EDITION SHALL BE USED. IN THE CASE OF CONFLICTING STANDARDS, THE MORE RESTRICTIVE SHALL BE USED.

ACI 315	AMERICAN CONCRETE INSTITUTE, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", 1999.
ACI 318	AMERICAN CONCRETE INSTITUTE, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY", (ACI 318), 2011 EDITION.
ACI 530	AMERICAN CONCRETE INSTITUTE, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", 2008 EDITION.
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "STEEL CONSTRUCTION MANUAL", 14TH EDITION.
ASCE7	AMERICAN SOCIETY OF CIVIL ENGINEERS, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", 2005 EDITION.
ASTM	ASTM INTERNATIONAL, "AMERICAN SOCIETY FOR TESTING AND MATERIALS", VARIOUS TESTING AND MATERIAL SPECIFICATIONS REFERENCED AS "ASTM XXXX" WHERE XXXX IS PUBLICATION REFERENCE CODE.
AWS D1.1	AMERICAN WELDING SOCIETY, "STRUCTURAL WELDING CODE - STEEL", 2008 EDITION.
IBC	INTERNATIONAL CODE COUNCIL, "INTERNATIONAL BUILDING CODE", 2006 EDITION.
ICC	INTERNATIONAL CODE COUNCIL, "ICC-ES", ICC-EVALUATION SERVICES, VARIOUS MATERIAL AND PRODUCT TEST REPORTS AND INSTALLATION STANDARDS.
SSPC	STEEL STRUCTURES PAINTING COUNCIL, "GOOD PAINTING PRACTICE", SSPC PAINTING MANUAL, 4TH EDITION.

STRUCTURAL DESIGN LOADS

BUILDING DEAD LOADS - WEIGHT OF CONSTRUCTION BASED ON UNIT WEIGHTS AND COMPONENT WEIGHTS AS CITED IN ASCE 7 OR AS PROVIDED BY MANUFACTURER.

EQUIPMENT DEAD LOADS - WEIGHTS OF MECHANICAL AND ELECTRICAL EQUIPMENT PER MANUFACTURER BASED ON OPERATIONAL WEIGHT INCLUDING FLUIDS UNLESS NOTED OTHERWISE. DYNAMIC FORCES DUE TO START-UP, SHUT- DOWN, AND OPERATION PER MANUFACTURER.

COLLATERAL DEAD LOADS - WEIGHT DUE TO MECHANICAL PIPING, VALVES, DUCTWORK, DAMPERS, MISCELLANEOUS DISTRIBUTION EQUIPMENT, AND ELECTRICAL CONDUIT, LIGHT FIXTURES, CABLE TRAYS, AND COMPONENTS INCLUDED.

DESIGN LOADS FOR FIXED PIERS ARE AS FOLLOWS:
WIND LOAD SHALL BE CALCULATED ACCORDING TO METHOD GIVEN IN TOBIASSON AND KOLLMAYER, "MARINAS AND SMALL CRAFT HARBORS", 2ND EDITION, CHAPTER 15.3
WIND SPEED: 80 MPH
CURRENT LOAD: 1.725 FT/SEC.
WAVE LOADS: 1.5 FT.
MINIMUM LATERAL LOADS ON MAIN WALKWAYS AND FINGERS = 150 PLF (OCCURRING SIMULTANEOUSLY ON WALKWAYS AND FINGERS).
VERTICAL LIVE LOAD FOR FIXED PIERS = 50 PSF
CONCENTRATED LIVE LOAD FOR FIXED PIERS = 400 LBS
VERTICAL LIVE LOAD FOR LOADING DOCK = 500 PSF
DESIGN LOADS FOR LANDSIDE STRUCTURES ARE AS FOLLOWS:

WIND LOADS IN ACCORDANCE WITH ASCE 7:
IMPORTANCE FACTOR Iw = 1.0
EXPOSURE CATEGORY EXPOSURE "C"
DESIGN WIND SPEED 105 MPH, 3 SEC GUST

SEISMIC LOADS IN ACCORDANCE WITH ASCE 7-05:
OCCUPANCY CATEGORY III
SEISMIC DESIGN CATEGORY D
SITE CLASSIFICATION CLASS E
SPECTRAL ACCEL., 0.2 SEC Ss = 0.61g
SPECTRAL ACCEL., 1.0 SEC S1 = 0.18g
SITE COEFFICIENT, 0.2 SEC Fa = 1.6
SITE COEFFICIENT, 1.0 SEC Fv = 3.3
IMPORTANCE FACTOR Ie = 1.25

LOAD COMBINATIONS:
LOAD COMBINATIONS USED IN ACCORDANCE WITH THE BUILDING CODE AND CITED REFERENCE STANDARDS AND AS REQUIRED FOR EACH TYPE OF MATERIAL ANALYSIS OR DESIGN PROCEDURE.

FOUNDATION DESIGN

BUILDING FOUNDATION DESIGN IS BASED ON GEOLABS, INC. GEOTECHNICAL FOUNDATION REPORT, DATED JULY 21, 2010.

REINFORCING STEEL

ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615. GRADE 60 AND EPOXY COATED PER ASTM A775 AFTER FABRICATION.

WELDED WIRE FABRIC (WWF) SHALL BE GALVANIZED AND CONFORM TO ASTM A185 AND A497.

ALL REINFORCEMENT SHALL BE RIGIDLY SUPPORTED ON CONCRETE BLOCKS OR APPROVED METAL ACCESSORIES SECURED USING 16 GA ANNEALED WIRE. PROVIDE #5 CONTINUOUS RISER BARS TO SUPPORT ALL SLAB AND FOOTING REINFORCING. REINFORCING STEEL SHOP DRAWINGS SHALL BE PREPARED BY AN EXPERIENCED DETAILER CONFORMING TO STANDARD PRACTICE OUTLINED IN ACI REPORT 315. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION.

CONCRETE

ALL CONCRETE SHALL CONFORM TO ACI 318

AGGREGATES SHALL CONFORM TO ASTM C33

CEMENT SHALL CONFORM TO ASTM C150, TYPE II

ALL CONCRETE SHALL BE REGULAR WEIGHT (150 PCF) HARD ROCK TYPE.

ADMIXTURES:
- WATER REDUCING AND/OR WATER REDUCING AND SET RETARDING ADMIXTURE SHALL CONFORM TO ASTM C494, TYPE F OR G AS MANUFACTURED BY DARACEM 100 MANUFACTURED BY W.R. GRACE & CO. OR APPROVED EQUAL AND USED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS.
- CORROSION INHIBITING ADMIXTURE SHALL BE CALCIUM NITRITE BASED RHEOCRETE CNI BY MASTER BUILDERS. DCI-S MANUFACTURED BY W.R. GRACE & CO., OR APPROVED EQUAL. CORROSION INHIBITING ADMIXTURE SHALL BE USED IN ALL CONCRETE AT A RATE OF 4-5 GALLONS PER CUBIC YARD OR AS OTHERWISE RECOMMENDED BY THE MANUFACTURER.
- SHRINKAGE REDUCING ADMIXTURE SHALL BE TETRAGUARD AS20 BY MASTER BUILDERS OR ECLIPSE BY W.R. GRACE & CO. OR APPROVED EQUAL. SHRINKAGE REDUCING ADMIXTURE SHALL BE USED IN ALL CONCRETE AT A RATE OF 1.5 GALLONS PER CUBIC YARD OF CONCRETE.

CONCRETE MATERIAL PROPERTIES:
- PILECAPS: CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI. A MAXIMUM SLUMP OF 3 1/2 INCHES +/- 1 INCH AND A MAXIMUM WATER/CEMENT RATIO OF 0.40 BY WEIGHT.
- MISCELLANEOUS CONCRETE: CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45 BY WEIGHT. MAXIMUM AGGREGATE SIZE SHALL BE ¾ INCH.

ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED DURING PLACEMENT USING A MECHANICAL VIBRATOR. ALL CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS.

UNLESS OTHERWISE INDICATED, CHAMFER ALL EXPOSED CORNERS 3/4 INCH.

ALL SAMPLING AND TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY AND ALL TEST RESULTS SUBMITTED TO THE ENGINEER FOR APPROVAL. COST OF SAMPLING AND TESTING SHALL BE BORNE BY THE CONTRACTOR.

CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS TO THE ENGINEER FOR APPROVAL.

PLACEMENT OF CONCRETE SHALL BE IN CONFORMANCE WITH ACI 301.

CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE (5) DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.

CONCRETE REINFORCEMENT COVER

MINIMUM CONCRETE COVER SHALL BE AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
EXPOSED TO EARTH OR WEATHER - ALL MEMBERS: 2", EXCEPT 1 1/2" FOR #5 AND SMALLER
SOFFITS AND SIDES OF PILE CAPS: 3"
TOP SURFACE OF PILE CAPS: 3"

DRILLED-IN ANCHORS AND DOWELS

ALL DRILLED-IN ANCHORS AND DOWELS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS INCLUDING DRILL BIT SIZE, HOLE DEPTH AND CLEANING, MINIMUM EMBEDMENT, EDGE DISTANCES, MATERIAL PLACEMENT, TEMPERATURE AND MOISTURE CONTROL, AND FINAL TORQUING REQUIREMENTS.

DRILLED-IN WEDGE (EXPANSION) ANCHORS SHALL BE HILTI "KWIK-BOLT TZ" BY HILTI FASTENING SYSTEMS, "WEDGE-ALL" BY SIMPSON STRONG-TIE CO., "POWER-STUD" BY POWERS FASTENERS OR APPROVED EQUIVALENT. ICC CERTIFICATION REQUIRED.

DRILLED-IN ADHESIVE ANCHORS SHALL BE "HIT-RE 500-SD" ADHESIVE ANCHOR SYSTEM FOR CONCRETE BY HILTI FASTENING SYSTEMS, "SET EPOXY-TIE" BY SIMPSON STRONG-TIE, "POWER-FAST +®" BY POWERS FASTENERS OR APPROVED EQUIVALENT. ICC CERTIFICATION REQUIRED.

DRILLED-IN EPOXY DOWELS SHALL BE STEEL REINFORCEMENT PER THE STRUCTURAL DRAWINGS. EPOXY ANCHORED IN DRILLED HOLE WITH MINIMUM 6 BAR DIAMETER EMBEDMENT. HOLE DRILLING, EPOXY INJECTION, AND DOWEL PLACEMENT SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. EPOXY SHALL BE "HIT HY-150" ADHESIVE ANCHOR SYSTEM FOR CONCRETE BY HILTI FASTENING SYSTEMS. "SET EPOXY-TIE" BY SIMPSON

STRONG-TIE CO., OR APPROVED EQUIVALENT. ICC CERTIFICATION REQUIRED. REFER TO SPECIFICATIONS FOR TESTING & INSPECTION REQUIREMENTS.

STAINLESS STEEL

ALL STEEL PLATES, BARS AND OTHER SHAPES SHALL BE STAINLESS STEEL TYPE 316 (ASTM A167-99) WITH AN ALLOWABLE TENSILE STRESS OF 20,000 PSI AND ALLOWABLE SHEAR STRESS OF 1,150 PSI, UNLESS NOTED OTHERWISE.

ANCHOR BOLTS, THREADED RODS AND BOLTS SHALL BE STAINLESS STEEL, A316.

NON-SHRINK GROUT SHALL BE PRE-MIXED, NON-METALLIC AND NON-CORROSIVE PER CORPS OF ENGINEERS CRD 621.

ALL WELDS SHALL BE ARC WELDING CONFORMING TO AWS D1.6 STANDARDS AND PREFORMED BY CERTIFIED WELDERS. SUBMIT WELDERS CERTIFICATION TO THE ENGINEER FOR REVIEW. ALL WELDS SHALL BE CLEANED AND GROUND SMOOTH.

SUBMITTALS:

- CERTIFIED MILL TEST REPORTS FOR STAINLESS STEEL SHAPES AND PLATES, BOLTS, NUTS AND WASHERS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- SHOP AND ERECTION DRAWINGS SHALL ALSO BE SUBMITTED FOR REVIEW FOR ALL CONNECTIONS, FABRICATED BRACKETS PRIOR TO FABRICATION.
- WELDERS CERTIFICATIONS.

ALUMINUM

ALL ALUMINUM WORK, INCLUDING MATERIAL, FABRICATION AND ERECTION SHALL COMPLY WITH SPECIFICATION SECTION 05 50 00 METAL FABRICATIONS.

ALL ALUMINUM MEMBERS SHALL BE FORMED FROM 6061-T6 EXTRUDED ALUMINUM ALLOYS.

ALL EXPOSED FASTENERS OR BOLTS USED IN THE SYSTEM SHALL BE STAINLESS STEEL, A316 SS.

ALUMINUM WELDING PROCEDURES, WORKMANSHIP AND QUALITY CONTROL SHALL COMPLY WITH THE REQUIREMENTS OF AWS D1.2

SUBMITTALS:

- CERTIFIED MILL TEST REPORTS FOR STANDARD ALUMINUM SHAPES AND PLATES, BOLTS, NUTS AND WASHERS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- SHOP AND ERECTION DRAWINGS SHALL ALSO BE SUBMITTED FOR REVIEW FOR ALL ALUMINUM MEMBERS, CONNECTIONS, FABRICATED BRACKETS, HARDWARE AND MISCELLANEOUS METALS PRIOR TO FABRICATION.
- WELDERS CERTIFICATIONS.

DEFERRED STRUCTURAL SUBMITTALS

THE FOLLOWING ITEMS ARE DESIGNED OR DETAILED BY THE CONTRACTOR USING THE LOADING AND CRITERIA SHOWN IN THE DESIGN DOCUMENTS BUT ARE NOT INCLUDED IN THE DESIGN DRAWINGS, AND ARE TO BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION:

CONCRETE REINFORCEMENT SHOP DRAWINGS
ALUMINUM PIER FRAMING
ALUMINUM SECURITY GATES

ALUMINUM PIER FRAMING

ALUMINUM PIER FRAMING SHOWN IN THE DRAWINGS INCLUDE INFORMATION PROVIDED BY "BLUE WATER MARINE" AS THE BASIS OF DESIGN. THE CONTRACTOR SHALL RETAIN AND PAY THE PIER FRAMING MANUFACTURER TO PROVIDE DETAILED PLANS, SPECIFICATIONS AND STRUCTURAL CALCULATIONS STAMPED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF HAWAII.

ALUMINUM SECURITY GATES

ALUMINUM SECURITY GATES SHOWN IN THE DRAWINGS INCLUDE INFORMATION PROVIDED BY "BLUE WATER MARINE" AS THE BASIS OF DESIGN. THE CONTRACTOR SHALL RETAIN AND PAY THE GATE MANUFACTURER TO PROVIDE DETAILED PLANS, SPECIFICATIONS AND STRUCTURAL CALCULATIONS STAMPED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF HAWAII.

GATE FRAMING SHALL BE CONSTRUCTED USING ALUMINUM SQUARE TUBING, ALUMINUM PIPE FRAMING AND ALUMINUM EXPANDED METAL MESH. EXPANDED METAL MESH SHALL BE 3/4" #9F.

SPECIAL STRUCTURAL INSPECTION

THE FOLLOWING ITEMS REQUIRE SPECIAL STRUCTURAL INSPECTION:

STRUCTURAL BACKFILL PLACEMENT AND COMPACTION
CONCRETE REINFORCEMENT PLACEMENT
CONCRETE PROPERTIES AND PLACEMENT
CAST-IN-PLACE ANCHOR BOLT PLACEMENT
DRILLED-IN ANCHORS AND DOWELS

CONSTRUCTION NOTES

ALL CORNERS AND CUT SURFACES EXPOSED TO PEDESTRIAN TRAFFIC ALONG MAIN WALKWAYS AND FINGER PIERS SHALL BE GROUND SMOOTH.

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR METHODS OF CONSTRUCTION, WORKMANSHIP AND JOBSITE SAFETY, INCLUDING ALL SHORING AND FALSEWORK.

CONSTRUCTION LOADING SHALL NOT EXCEED RATED CAPACITIES BASED ON DESIGN LOADS.

NO PENETRATIONS WILL BE ALLOWED THROUGH ANY STRUCTURAL MEMBER WITHOUT THE APPROVAL OF THE ENGINEER UNLESS OTHERWISE NOTED ON THE DRAWINGS.

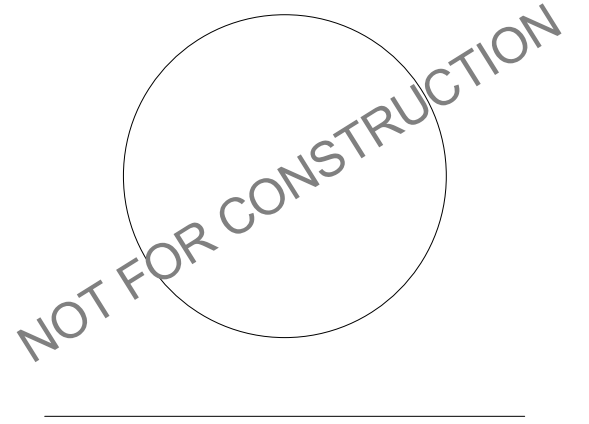
IN ADDITION TO THE BEST MANAGEMENT PRACTICES PROVIDED ON THE CIVIL DRAWINGS, THE FOLLOWING BEST MANAGEMENT PRACTICES (BMP'S) WILL BE USED TO PROPERLY ISOLATE AND CONFINE CONSTRUCTION ACTIVITIES AND TO CONTAIN AND PREVENT ANY POTENTIAL POLLUTANT(S) FROM ADVERSELY IMPACTING THE WATERS OF KEWALO HARBOR.

- THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS AND REGULATIONS, INCLUDING BMP'S UTILIZING ARMY CORPS OF ENGINEERS NATIONWIDE PERMITS AND HAWAII ADMINISTRATIVE RULES. TITLE II DEPARTMENT OF HEALTH, CHAPTER 55, WATER POLLUTION CONTROL.
- THE CONTRACTOR SHALL PROVIDE PROTECTIVE MEASURES AS NECESSARY TO CAPTURE ALL DEBRIS FROM DEMOLITION OPERATIONS AND ENSURE THAT PETROLEUM PRODUCTS OR OTHER DELETERIOUS MATERIALS ARE NOT ALLOWED TO ENTER THE HARBOR.
- THE CONTRACTOR SHALL CAPTURE AND DISPOSE OF ALL NEWLY GENERATED WASTES ABOVE WATER. SOLID WASTE SHALL BE PICKED UP AND PLACED IN CONTAINERS THAT ARE REGULARLY EMPTIED. SITE CONTAMINATION WILL BE PREVENTED WHEN HANDLING AND DISPOSING OF ALL WASTE. THE PROJECT SITE WILL BE CLEANED UP AT THE END OF EACH WORKING DAY TO PREVENT DEBRIS FROM ENTERING THE WATER.

THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC BEST MANAGEMENT PRACTICES PLAN (BMPP) TO THE U.S. ARMY ENGINEER DISTRICT, HONOLULU BEFORE IN-WATER WORK ACTIVITIES BEGIN. THE NAME AND CONTACT INFORMATION OF THE DESIGNATED POINT OF CONTACT (POC) FOR ALL IN-WATER ACTIVITIES SHALL BE PROVIDED IN THE BMPP. THE POC SHALL ENSURE THAT DAILY VISUAL INSPECTION OF THE CONSTRUCTION SITE AND ITS ENVIRONS ARE CONDUCTED TO VERIFY THAT THE PERMITTED ACTIVITIES DO NOT RESULT IN UNCONTROLLED ADVERSE ENVIRONMENTAL IMPACTS AND THAT WHERE ENVIRONMENTAL HARM OCCURS, IS MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE. VISUAL INSPECTION WILL BE DOCUMENTED WITH PHOTOGRAPHS AND WRITTEN DESCRIPTIONS, IF NECESSARY. THE BMPP SHALL INCLUDE MEASURES THAT

- IN-WATER ACTIVITIES SHALL EMPLOY, AS PRACTICAL AND FEASIBLE AS POSSIBLE, SOUND ATTENUATION MEASURES WHICH SHALL MINIMIZE THE INTENSITY AND DURATION OF PERCUSSION IMPACTS THROUGH THE AQUATIC ENVIRONMENT.
- MECHANIZED EQUIPMENT AND CONSTRUCTION MATERIALS WILL BE CLEAN, UNCONTAMINATED AND FREE OF DELETERIOUS SUBSTANCES, INCLUDING TOXIC CHEMICALS AND CLAY-COATED MATERIAL.
- AN OIL SPILL RESPONSE PLAN (OSRP) IS IN PLACE ON LANDSIDE PLATFORMS AND ALL IN-WATER CRAFT WHICH ARE ASSOCIATED WITH THE PIER CONSTRUCTION WORK. THE OSRP SHALL DETAIL PROCEDURES FOR MANAGING THE ACCIDENTAL RELEASE OF PETROLEUM PRODUCTS TO THE AQUATIC ENVIRONMENT DURING INSTALLATION AND REMOVAL OF PIER STRUCTURES. NO CONTAMINATION OF THE MARINE ENVIRONMENT SHALL RESULT FROM THE PERMITTED ACTIVITIES. PARTICULAR CARE MUST BE TAKEN TO ENSURE THAT NO PETROLEUM PRODUCTS, TRASH OR OTHER DEBRIS ENTER NEARSHORE WATERS. WHEN SUCH MATERIAL IS FOUND WITHIN THE OPERATION AREA, THE PERMITTEE, OR ITS DESIGNATED AGENT WILL COLLECT AND DISPOSE OF THIS MATERIAL AT AN APPROVED DISPOSAL SITE.
- PROTOCOL AND OPERATIONS MEASURES FOR THE AVOIDANCE AND PROTECTION OF GREEN SEA AND LOGGERHEAD TURTLES AND OTHER PROTECTED SPECIES IN ACTIVE, MECHANIZED EQUIPMENT AND BOAT AREAS OF OPERATION SHALL INCORPORATE THE FOLLOWING SITE-SPECIFIC AVOIDANCE AND MINIMIZATION MEASURES:

- SURVEYS SHALL BE MADE PRIOR TO THE START OF WORK EACH DAY, AND PERIODICALLY DURING THE DAY, INCLUDING PRIOR TO RESUMPTION OF WORK FOLLOWING ANY BREAK OF MORE THAN ONE HALF HOUR.
- ALL IN-WATER WORK WILL BE POSTPONED OR HALTED WHEN ESA-LISTED MARINE SPECIES ARE WITHIN 50 FEET OF THE PROPOSED WORK, AND WILL ONLY BEGIN/RESUME AFTER THE ANIMALS HAVE VOLUNTARILY DEPARTED THE AREA. IF ESA-LISTED MARINE SPECIES ARE NOTICED AFTER WORK HAS ALREADY BEGUN, THAT WORK MAY CONTINUE ONLY IF THERE IS NO WAY FOR THE ACTIVITY TO ADVERSELY AFFECT THE ANIMAL(S).
- WHEN PILOTING VESSELS, VESSEL OPERATORS SHALL ALTER COURSE TO REMAIN AT LEAST 100 YARDS FROM WHALES, AND AT LEAST 50 YARDS FROM OTHER MARINE MAMMALS AND SEA TURTLES. REDUCE VESSEL SPEED TO 10 KNOTS OR LESS WHEN PILOTING VESSELS IN THE PROXIMITY OF MARINE MAMMALS AND TURTLES. IF PRACTICABLE, REDUCE VESSEL SPEED TO 5 KNOTS OR LESS WHEN PILOTING VESSELS IN AREAS OF KNOWN OR SUSPECTED TURTLE ACTIVITY.
- IF APPROACHED BY A MARINE MAMMAL OR TURTLE, PUT THE ENGINE IN NEUTRAL AND ALLOW THE ANIMAL TO PASS.
- MARINE MAMMALS AND SEA TURTLES SHOULD NOT BE ENCIRCLED OR TRAPPED BETWEEN MULTIPLE VESSELS OR BETWEEN VESSELS AND THE SHORE.
- DO NOT ATTEMPT TO FEED, TOUCH, RIDE OR OTHERWISE INTENTIONALLY INTERACT WITH ANY ESA-LISTED MARINE SPECIES.



KEWALO BASIN
HARBOR IMPROVEMENTS
HAWAII
HONOLULU

GENERAL STRUCTURAL NOTES

DRAWING TITLE

REVISIONS	BY		DESCRIPTION	DATE	NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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- ALL ON-SITE PROJECT PERSONNEL MUST BE APPRISED OF THE STATUS OF ANY LISTED SPECIES POTENTIALLY PRESENT IN THE PROJECT AREA AND THE PROTECTIONS AFFORDED TO THOSE SPECIES UNDER FEDERAL LAWS. INFORMATION EXPLAINING LAWS AND REGULATIONS FOR LISTED SPECIES IN HAWAII MAY BE DOWNLOADED AT:
http://www.nmfs.noaa.gov/protres/MMWatch/hawaii.htm. THE POC SHALL ENSURE THAT PROTOCOLS AND OBSERVERS TO AVOID THE POTENTIAL FOR CONTACT OR HARASSMENT WITH ESA SPECIES OF RECORD ARE FOLLOWED DURING ALL PERIODS OF IN-WATER WORK
- RECORDS OF OBSERVATIONS OF GREEN SEA TURTLES OBSERVED IN THE PROJECT AREAS FOR THE DURATION OF IN-WATER ACTIVITIES SHALL BE MAINTAINED AND SUBMITTED AT THE CLOSE OF IN-WATER ACTIVITIES.
- IMMEDIATE NOTIFICATION TO MR. ROBERT SCHROEDER, Robert.Schroeder@noaa.gov., PROTECTED RESOURCES DIVISION, NMFS, PIRO, SHALL OCCUR IF:
 - a. A TAKE OCCURS.
 - b. NEW INFORMATION REVEALS EFFECTS OF THE ACTION HAVE AFFECTED LISTED SPECIES IN A MANNER OR TO AN EXTENT NOT PREVIOUSLY EVALUATED.
 - c. IF THE ACTION IS SUBSEQUENTLY MODIFIED AND CAUSED EFFECTS TO LISTED SPECIES IN A MANNER OR TO AN EXTENT NOT PREVIOUSLY CONSIDERED OF EVALUATED.
 - d. A NEW SPECIES IS LISTED OR CRITICAL HABITAT IS DESIGNATED THAT MAY BE AFFECTED BY THE AUTHORIZED WORK.

THE CONTRACTOR SHALL USE FULL WATER DEPTH SILT CURTAINS TO ENCLOSE THE WORK AREA TO CONTROL TURBIDITY AND REDUCE THE ANTICIPATED EFFECTS OF SUSPENSION OF DISTURBED SEDIMENTS DURING DEMOLITION OF EXISTING PIERS AS NOTED ON SHEET S-101.

FRESH CONCRETE SHALL BE PREVENTED FROM ENTERING THE WATER DURING ALL CONCRETING WORK. FRESH CONCRETE SHALL NOT BE DISPERSED THROUGH THE WATER, BUT SHALL BE PLACED BY PUMPING, DISPLACING THE WATER IN THE FORM. DISPLACED WATER AND WASTED CONCRETE SHALL BE COLLECTED ONSHORE AND PROPERLY DISPOSED OFFSITE. FORM WORK SHALL BE SEALED AGAINST CONCRETE LEAKAGE.

CONSTRUCTION MATERIALS WILL BE STORED AND STAGED IN A MANNER TO PREVENT THE DISCHARGE OF POLLUTANTS INTO THE HARBOR WATERS. NO SCRAPS GENERATED DURING THE CONSTRUCTION PROCESS WILL BE ALLOWED TO ENTER THE HARBOR WATERS. ALL GENERATED WASTES WILL BE CLEANED UP AND PLACED INTO THE JOBSITE TRASH BINS FOR PROPER DISPOSAL.

OIL OR OTHER HAZARDOUS SUBSTANCES WILL BE PREVENTED FROM ENTERING THE GROUND, DRAINAGE AREA, OR LOCAL BODIES OF WATER. WHEN APPLICABLE, ALL TEMPORARY FUEL OIL OR PETROLEUM STORAGE TANKS WILL BE SURROUNDED WITH A TEMPORARY BERM OF SUFFICIENT SIZE AND STRENGTH TO CONTAIN THE CONTENTS OF TANKS IN THE EVENT OF AN ACCIDENTAL RELEASE. FUEL WILL BE STORED IN THE BARGE. FUELING AND LUBRICATING OF EQUIPMENT AND MOTOR VEHICLES WILL BE CONDUCTED IN A MANNER TO PROTECT AGAINST LEAKS OR SPILLS. LUBRICANTS AND EXCESS OIL WILL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

ALL EQUIPMENT WILL BE INSPECTED DAILY FOR LEAKS. ANY LEAKS WILL BE CORRECTED BEFORE EQUIPMENT IS USED.

A SPILL KIT WILL BE KEPT ON BOARD THE WORK BARGE AND THE LANDSIDE STAGING AREA IN CASE OF ACCIDENTAL RELEASE OF ANY PETROLEUM PRODUCTS.

ALL SPILLS SHALL BE REPORTED TO THE NATIONAL RESPONSE CENTER (PHONE: 800-424-8802), UNITED STATES COAST GUARD (PHONE: 808-522-8284), STATE DEPARTMENT OF HEALTH HAZARD EVALUATION AND EMERGENCY RESPONSE OFFICE (PHONE: 808-586-4249).

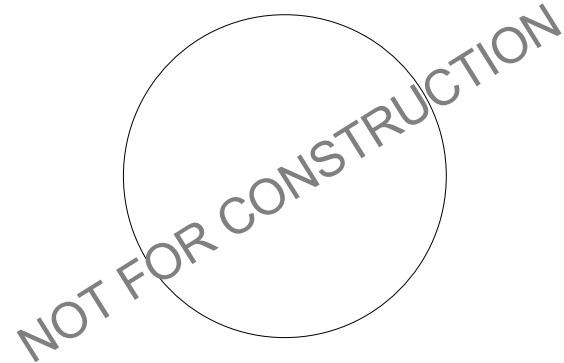
THE GENERAL CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND STRUCTURES AFFECTING THE WORK. NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND WHAT IS SHOWN IN THE CONTRACT DOCUMENTS WHICH WILL ADVERSELY AFFECT THE WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, AND SEQUENCES OF PROCEDURES REQUIRED TO PERFORM THE WORK. THE CONTRACTOR SHALL COORDINATE ALL TRADES AND VERIFY DIMENSIONS IN THE FIELD.

THESE DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO THE REVIEW AND APPROVAL OF THE ENGINEER.

ALL INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ENGINEER SO THAT THE PROPER REVISIONS MAY BE MADE. MODIFICATION OF DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

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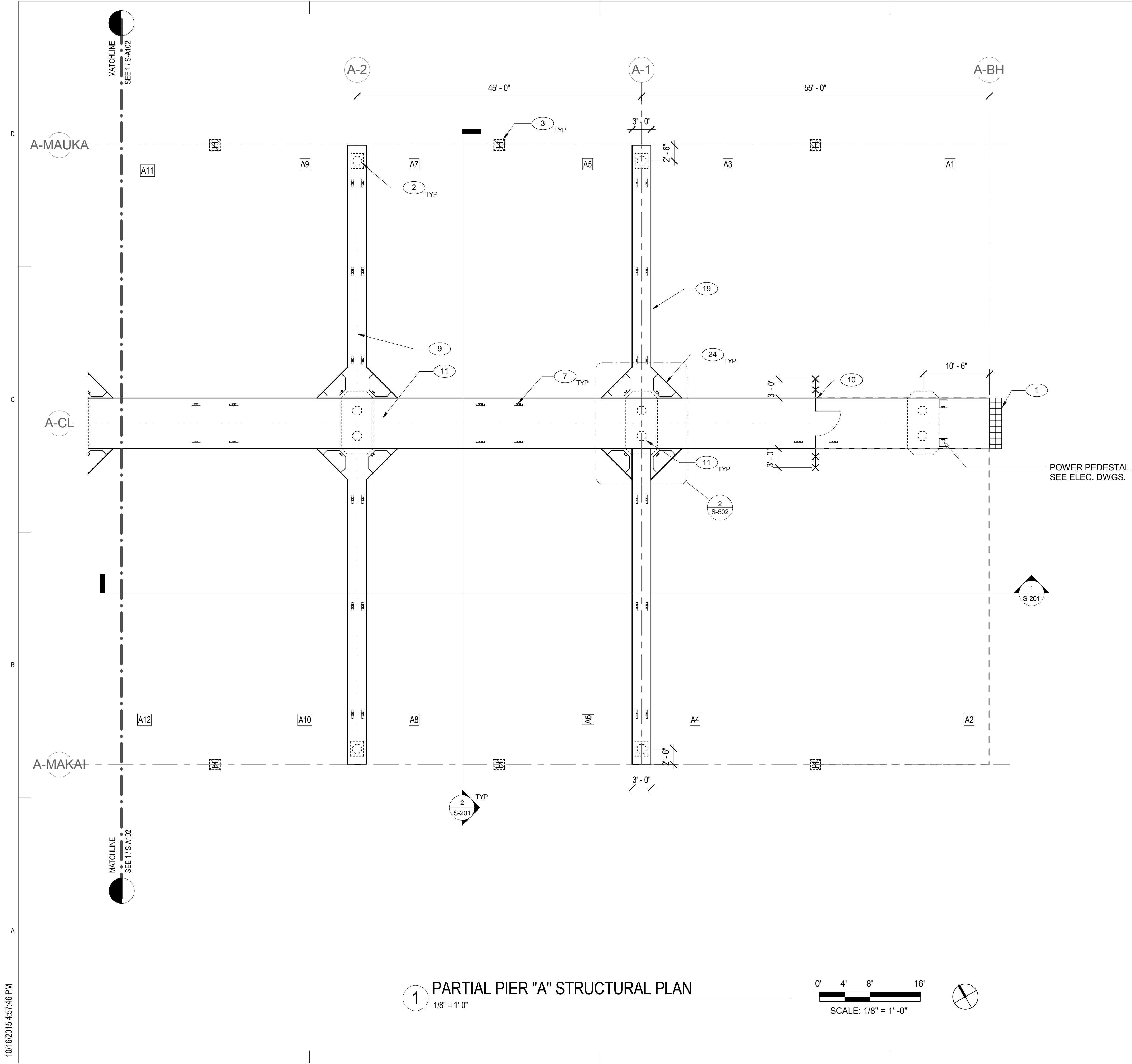
KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU HAWAII

GENERAL STRUCTURAL NOTES

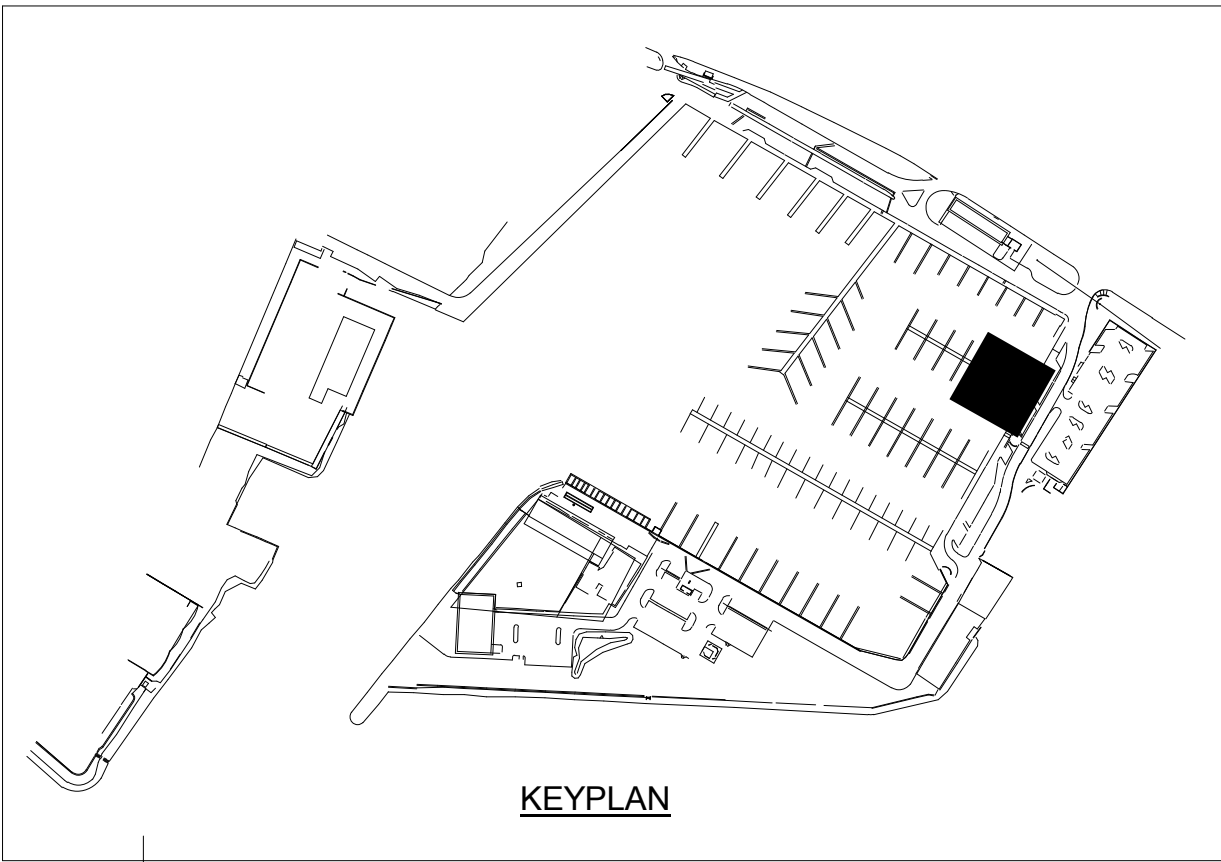
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						150172	MC	PB	BM	-	10/16/15

S-103

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KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	REPAIR CRACKS IN (E) SHEET PILE BULKHEAD CAP.
2	(E) 16 1/2" OCTAGONAL CONCRETE PILES. REPLACE CAST IN PLACE CONCRETE PILE CAP.
3	(E) HP 12X53 MOORING PILE W/ 1'-8" SQR CONCRETE JACKET AT WATER LINE.
7	NEW CLEATS.
9	ALUMINUM FRAMED SUPERSTRUCTURE FRP MINI MESH PANELS.
10	GATE FRAMED WITH ALUMINUM TUBING AND 1/4" DIA. ALUMINUM MESH WITH 2" OPENING. FASTEN GATE TO PIER SUPERSTRUCTURE USING POST-INSTALLED CONCRETE ANCHORS MADE OF STAINLESS STEEL.
11	REPLACE EXISTING PILE CAPS.
19	INSTALL NEW FENDER.
24	CORNER DOCK BOX (29.5" X 50")



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DRAWING TITLE

PARTIAL PIER "A" STRUCTURAL PLAN

REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO. 150172

DRAWN BY: AH

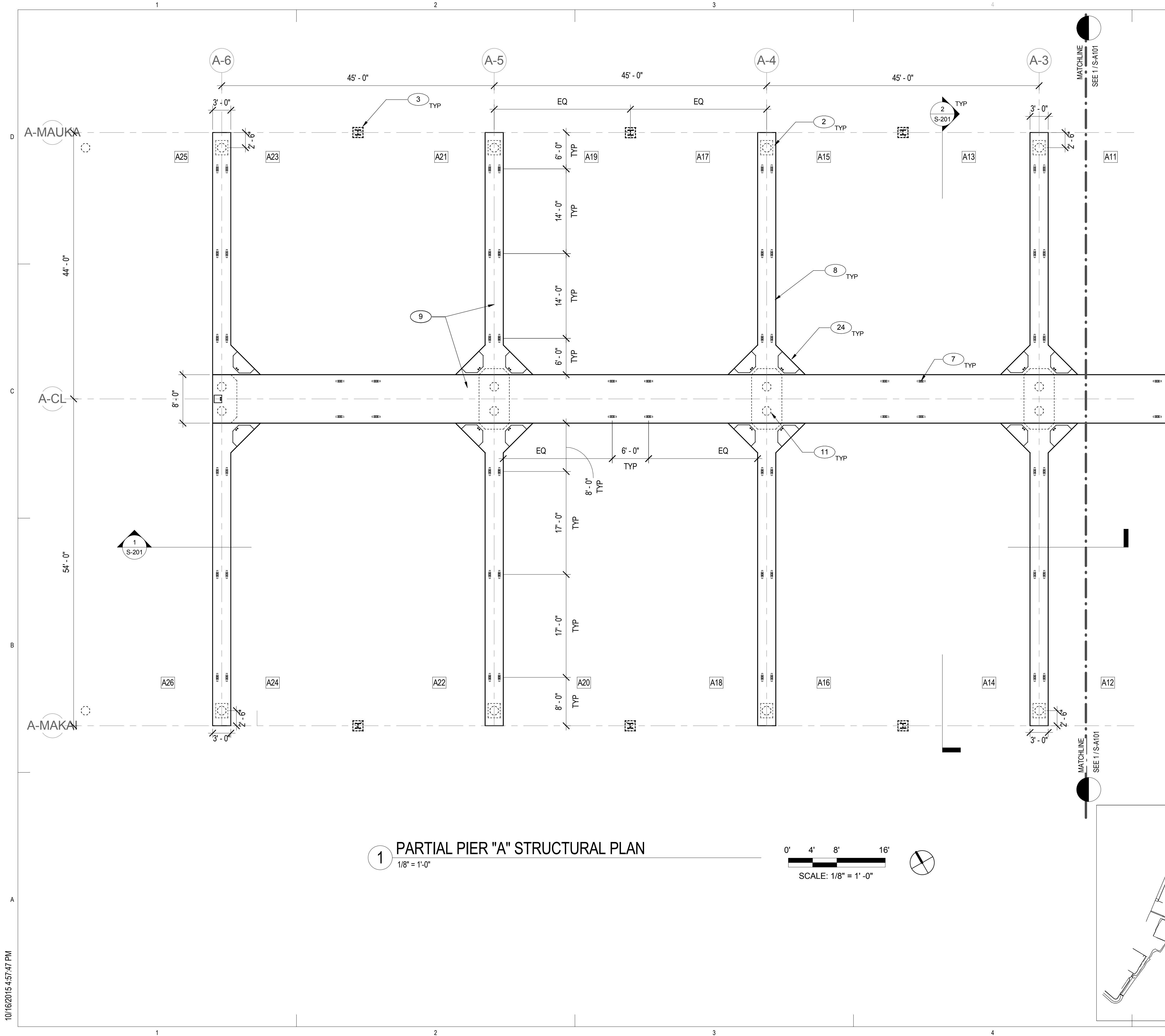
DESIGNED BY: PB

CHECKED BY: BM

REVIEWED BY: -

DATE 10/16/15

S-A101



KEYNOTE LEGEND	
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3	(E) HP 12X53 MOORING PILE W/ 1'-8" SQR CONCRETE JACKET AT WATER LINE.
7	NEW CLEATS.
8	FRP FENDERS.
9	ALUMINUM FRAMED SUPERSTRUCTURE FRP MINI MESH PANELS.
11	REPLACE EXISTING PILE CAPS.
24	CORNER DOCK BOX (29.5" X 50")

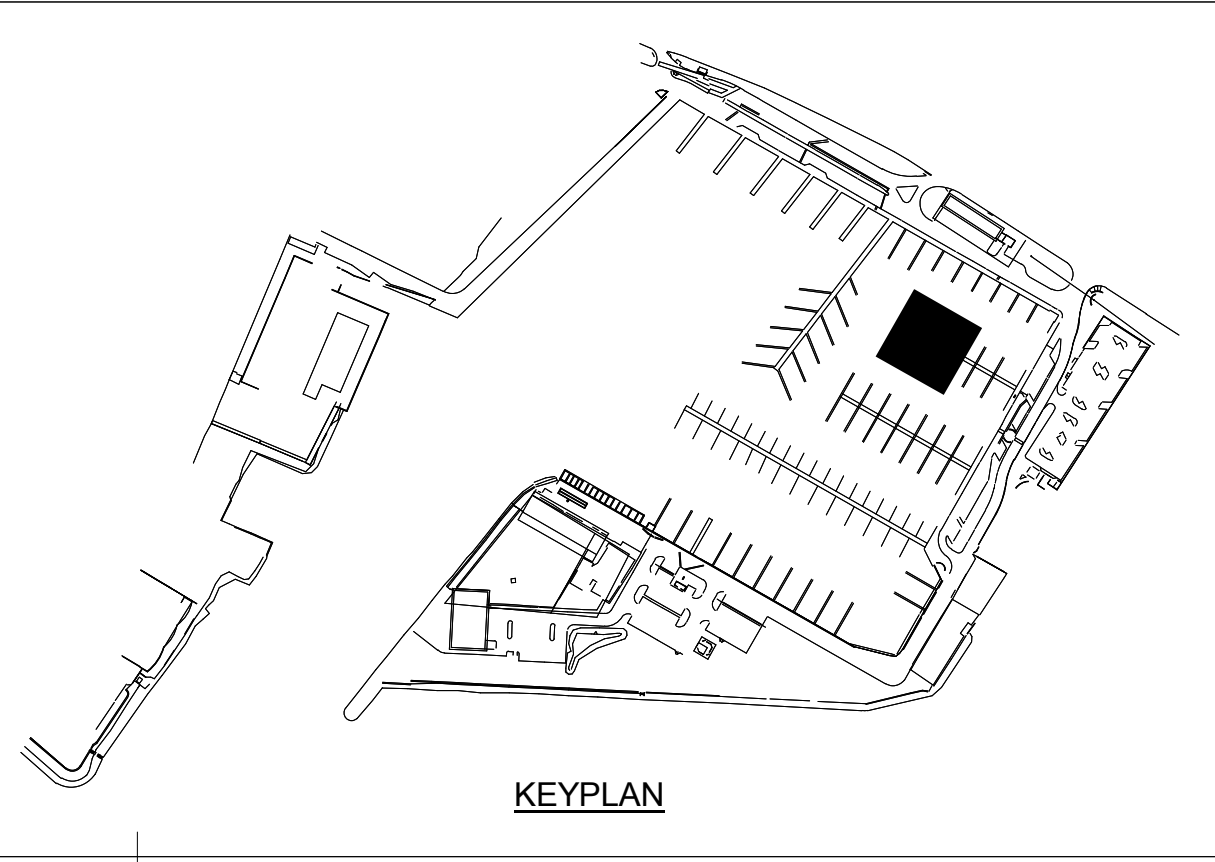
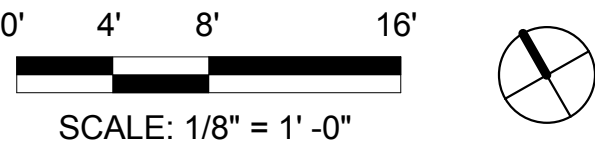
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1 PARTIAL PIER "A" STRUCTURAL PLAN
1/8" = 1'-0"



50% CD

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PARTIAL PIER "A" STRUCTURAL PLAN

NO.	DATE	DESCRIPTION	BY

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REVIEWED BY: -

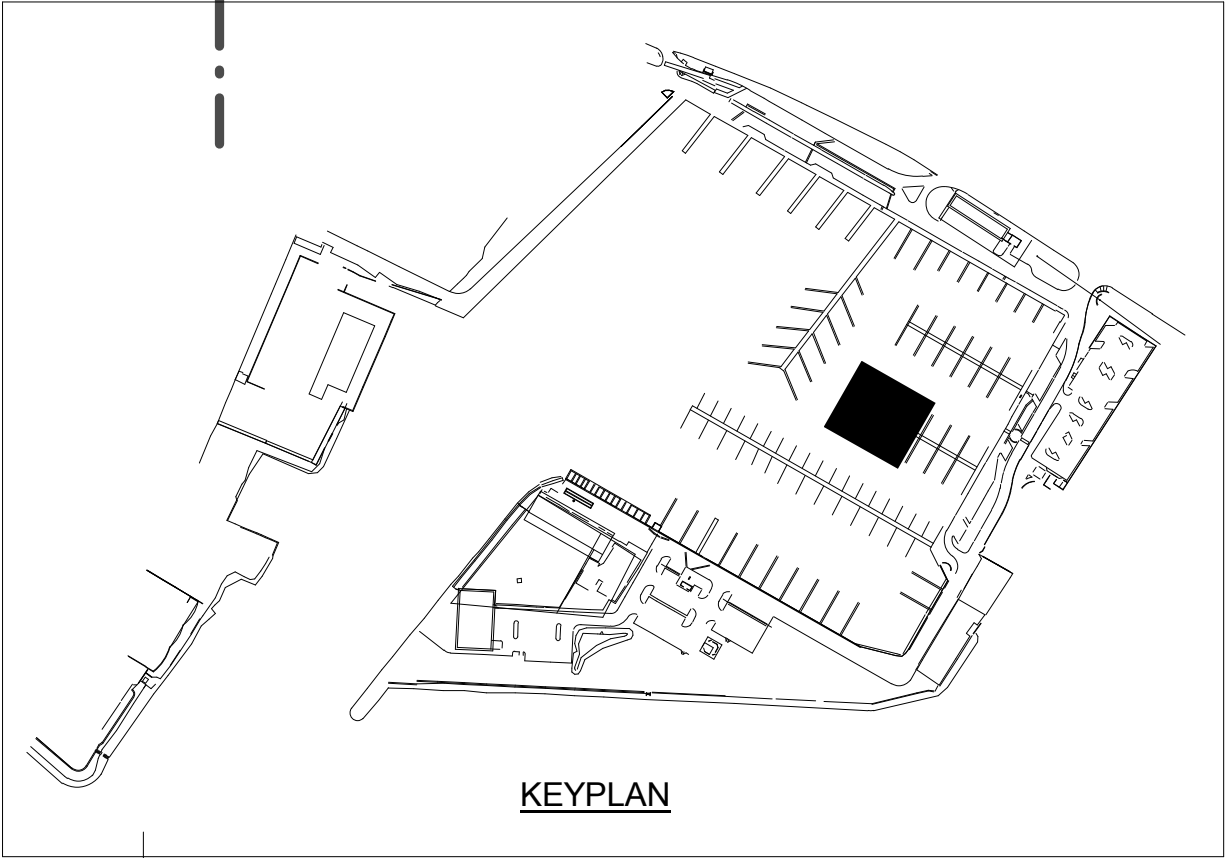
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KEYPLAN

DRAWING TITLE

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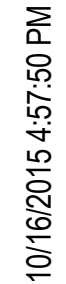


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KEY VALUE	KEYNOTE TEXT
2	(E) 16 1/2" OCTAGONAL CONCRETE PILES. REPLACE CAST IN PLACE CONCRETE PILE CAP.
3	(E) HP 12X53 MOORING PILE W/ 1'-8" SQR CONCRETE JACKET AT WATER LINE.
7	NEW CLEATS.
9	ALUMINUM FRAMED SUPERSTRUCTURE FRP MINI MESH PANELS.
11	REPLACE EXISTING PILE CAPS.
19	INSTALL NEW FENDER.
24	CORNER DOCK BOX (29.5' X 50')

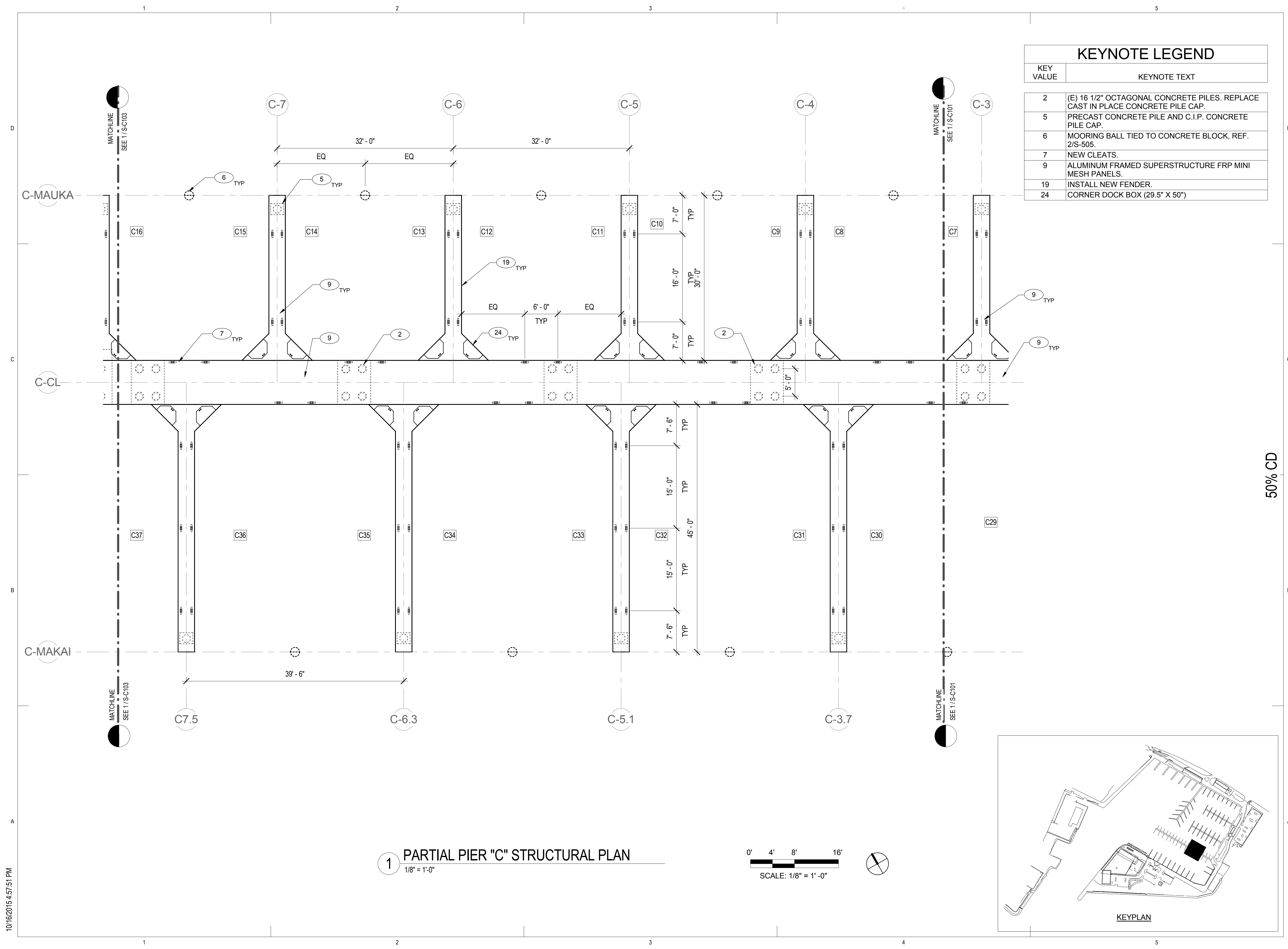
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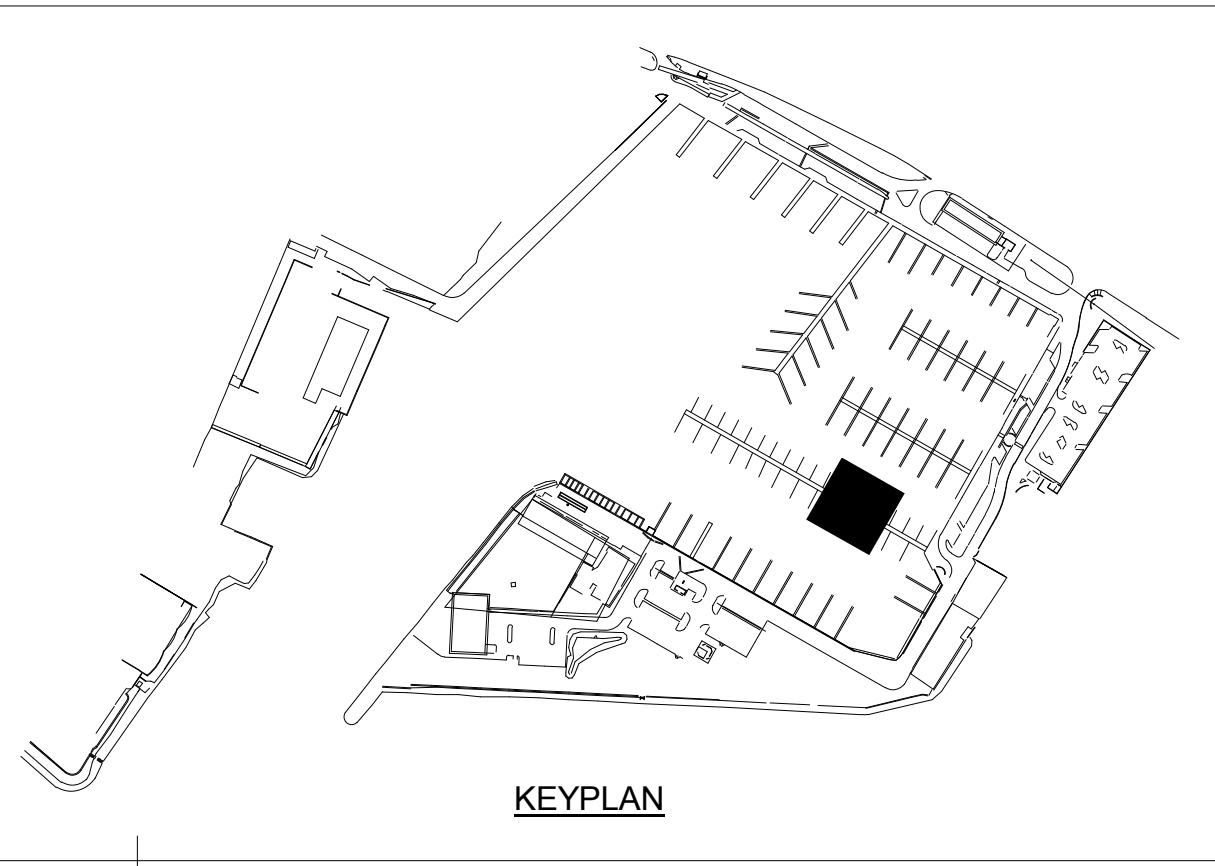
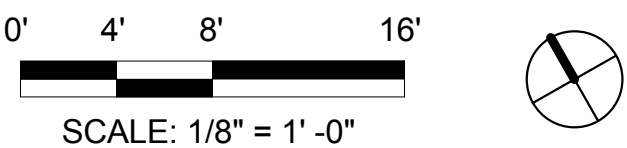
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NO.					
PROJECT NO. 150172					
DRAWN BY: AH					
DESIGNED BY: PB					
CHECKED BY: BM					
REVIEWED BY: -					
DATE 10/16/15					



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
2	(E) 16 1/2" OCTAGONAL CONCRETE PILES. REPLACE CAST IN PLACE CONCRETE PILE CAP.
5	PRECAST CONCRETE PILE AND C.I.P. CONCRETE PILE CAP.
6	MOORING BALL TIED TO CONCRETE BLOCK, REF. 2/S-505.
7	NEW CLEATS.
9	ALUMINUM FRAMED SUPERSTRUCTURE FRP MINI MESH PANELS.
19	INSTALL NEW FENDER.
24	CORNER DOCK BOX (29.5" X 50")

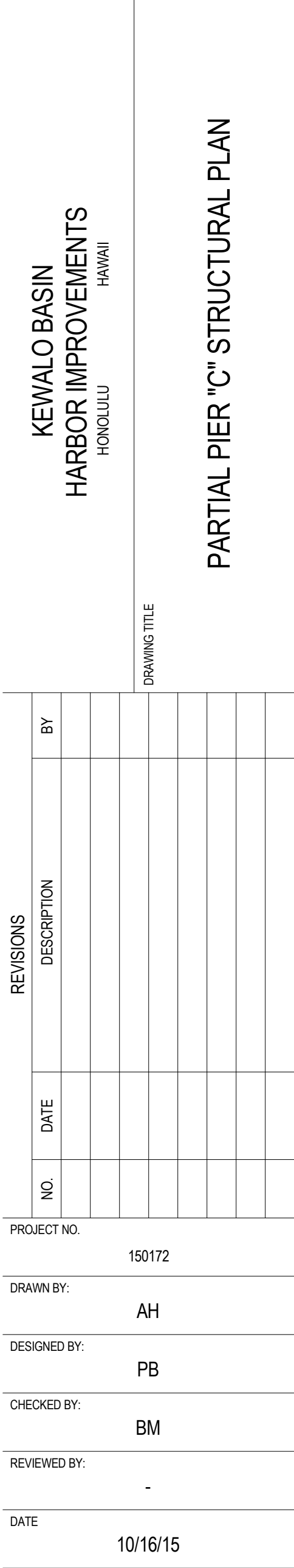


1 PARTIAL PIER "C" STRUCTURAL PLAN



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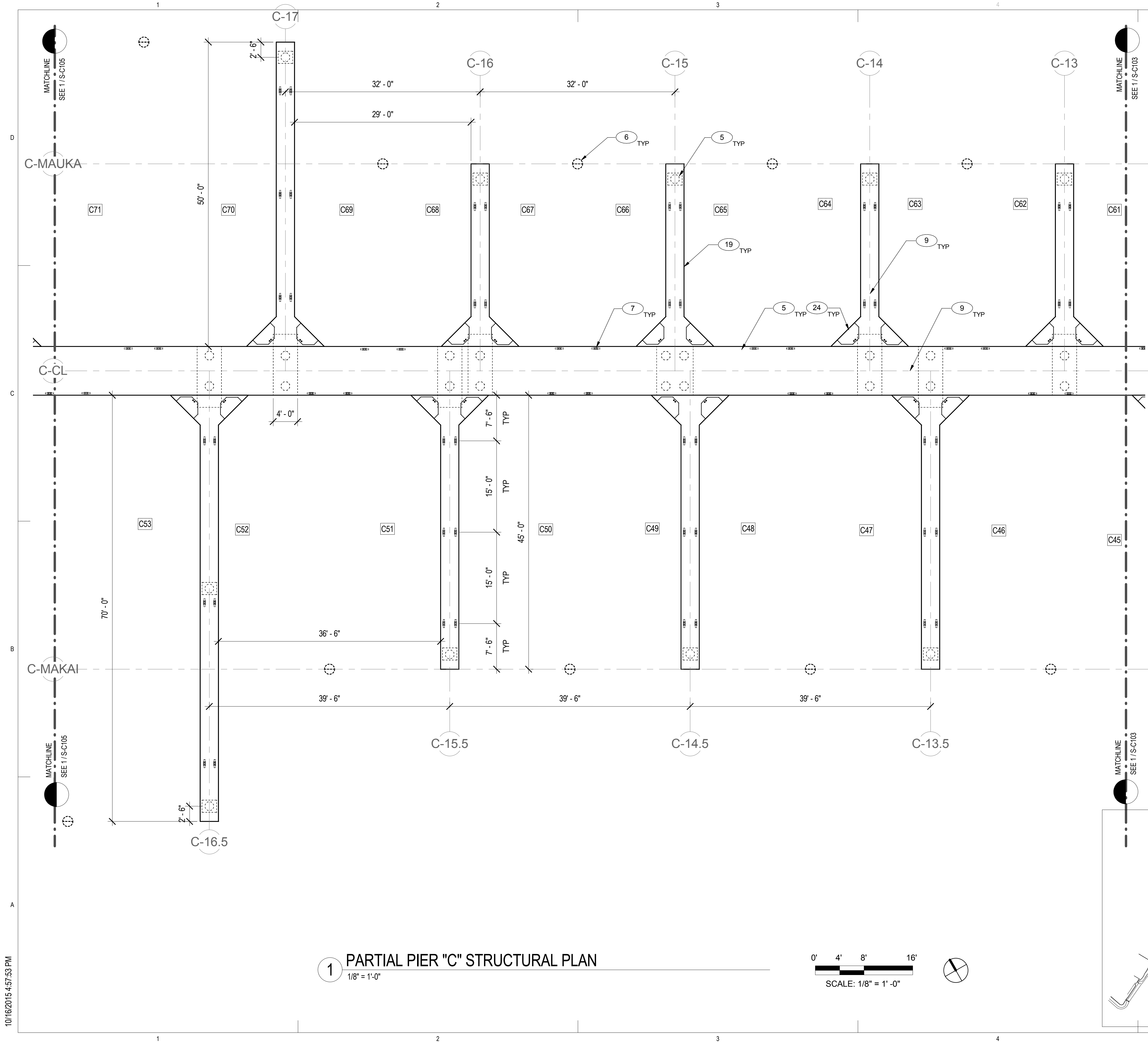


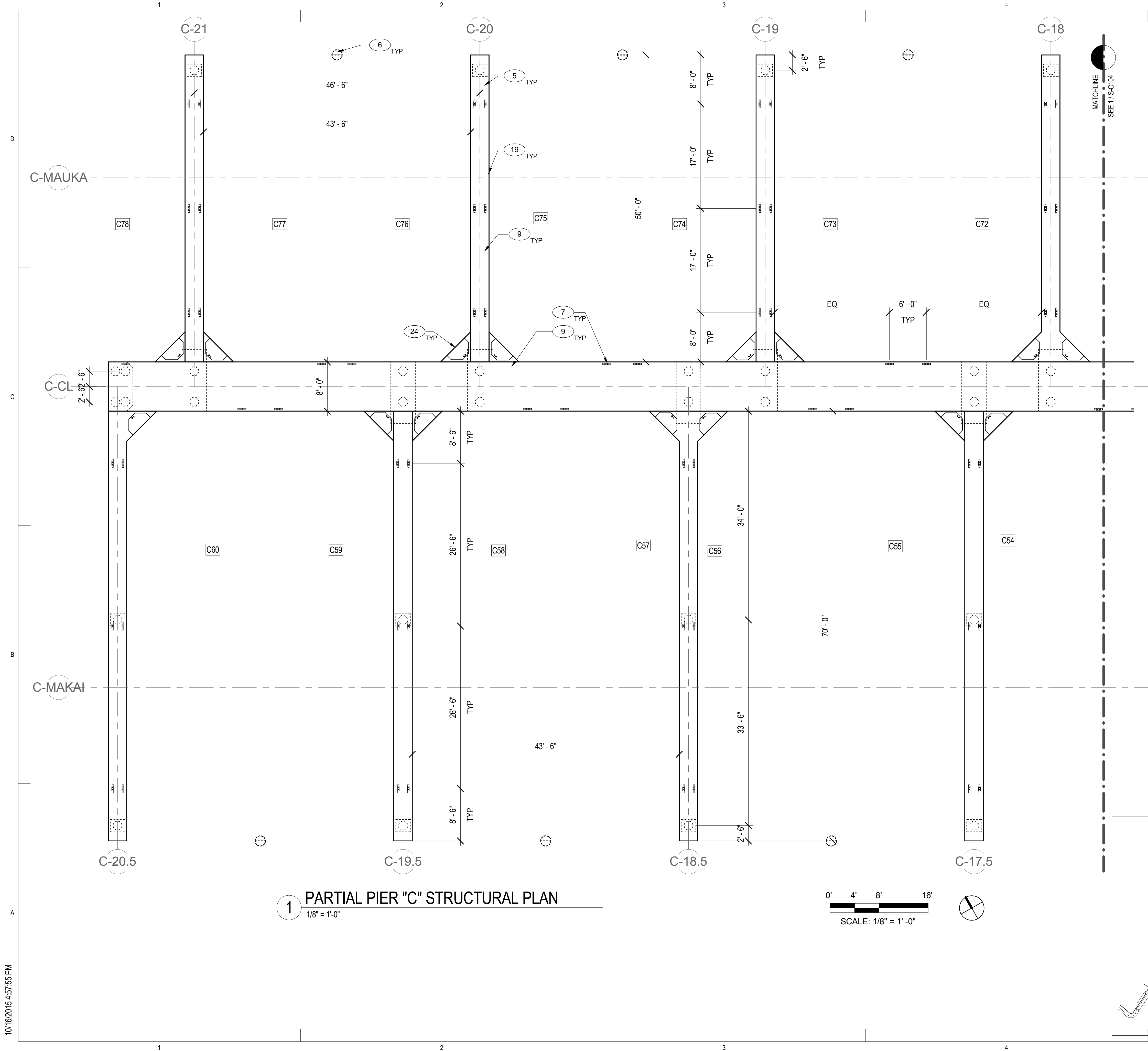
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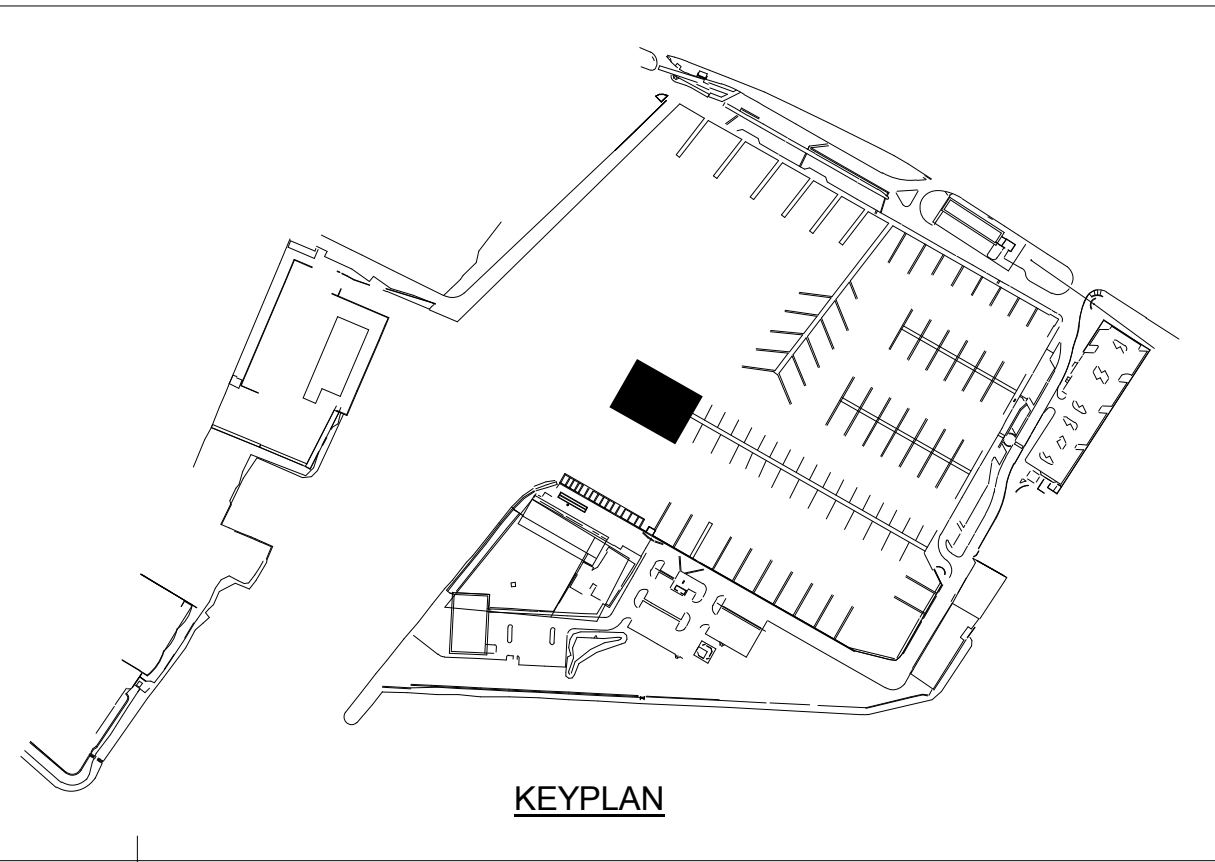
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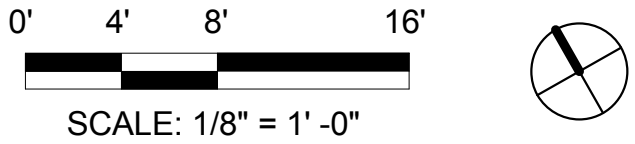




KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
5	PRECAST CONCRETE PILE AND C.I.P. CONCRETE PILE CAP.
6	MOORING BALL TIED TO CONCRETE BLOCK, REF. 2/S-505.
7	NEW CLEATS.
9	ALUMINUM FRAMED SUPERSTRUCTURE FRP MINI MESH PANELS.
19	INSTALL NEW FENDER.
24	CORNER DOCK BOX (29.5" X 50")



1 PARTIAL PIER "C" STRUCTURAL PLAN
1/8" = 1'-0"



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PARTIAL PIER "C" STRUCTURAL PLAN

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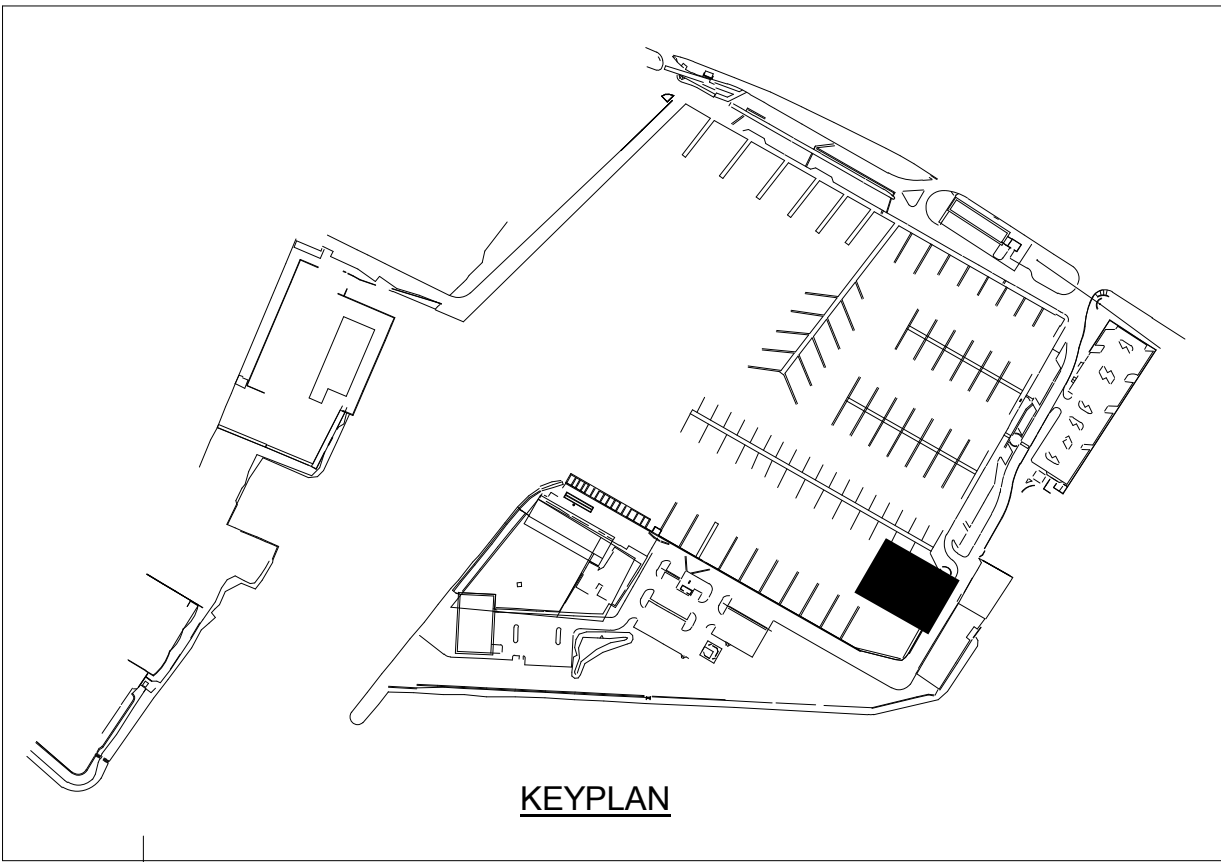
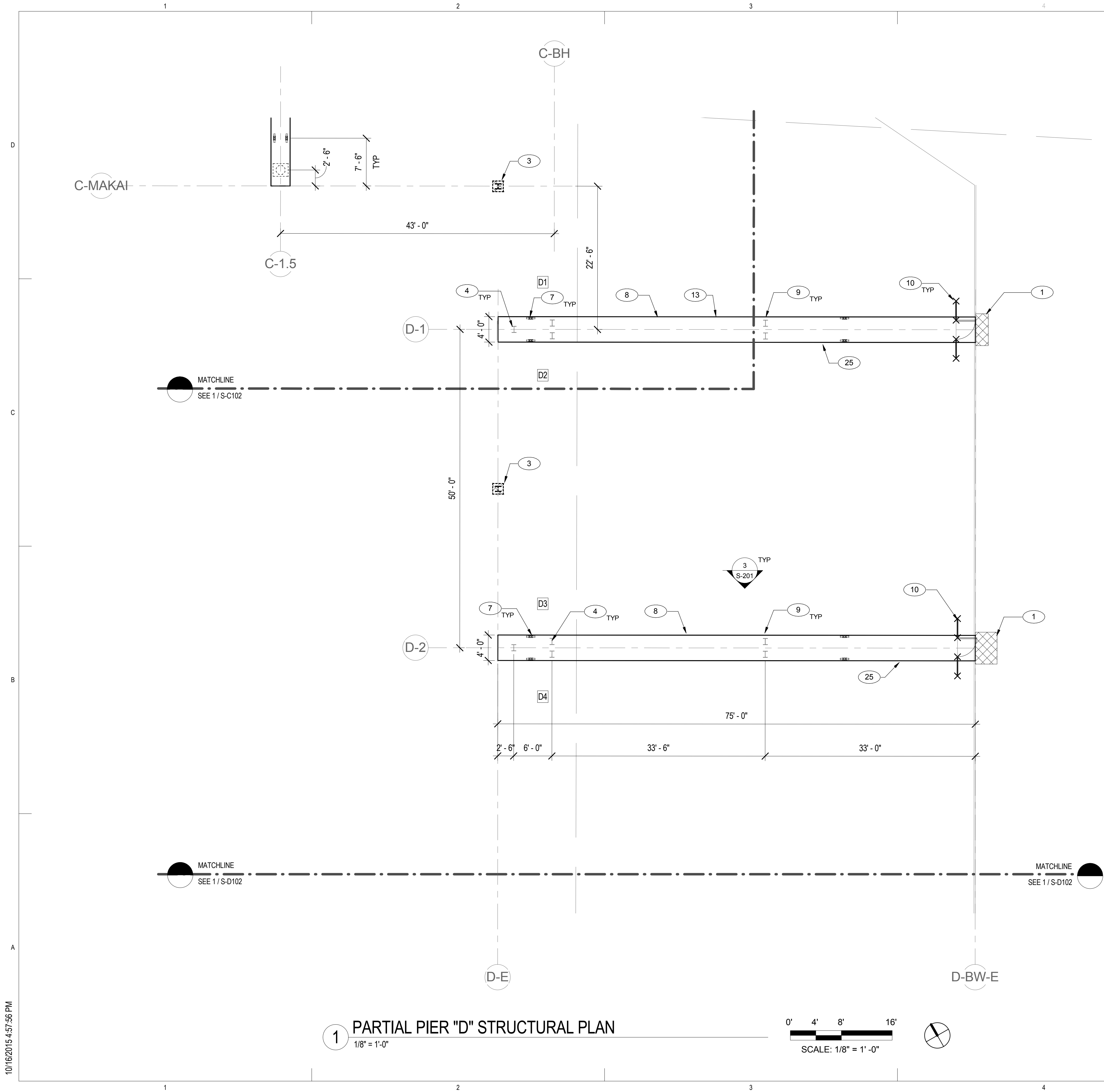
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KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	REPAIR CRACKS IN (E) SHEET PILE BULKHEAD CAP.
3	(E) HP 12X53 MOORING PILE W/ 1'-8" SQR CONCRETE JACKET AT WATER LINE.
4	(E) STEEL PILE. NEW CAP.
7	NEW CLEATS.
8	FRP FENDERS.
9	ALUMINUM FRAMED SUPERSTRUCTURE FRP MINI MESH PANELS.
10	GATE FRAMED WITH ALUMINUM TUBING AND 1/4" DIA. ALUMINUM MESH WITH 2" OPENING. FASTEN GATE TO PIER SUPERSTRUCTURE USING POST-INSTALLED CONCRETE ANCHORS MADE OF STAINLESS STEEL.
13	EXISTING CLEATS AND TREADS TO REMAIN.
25	REMOVE EXISTING CONCRETE SUPERSTRUCTURE AND REPLACE WITH NEW SUPERSTRUCTURE.

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PARTIAL PIER "D" STRUCTURAL PLAN

REVISIONS	NO.	DATE	DESCRIPTION	BY

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DESIGNED BY: PB

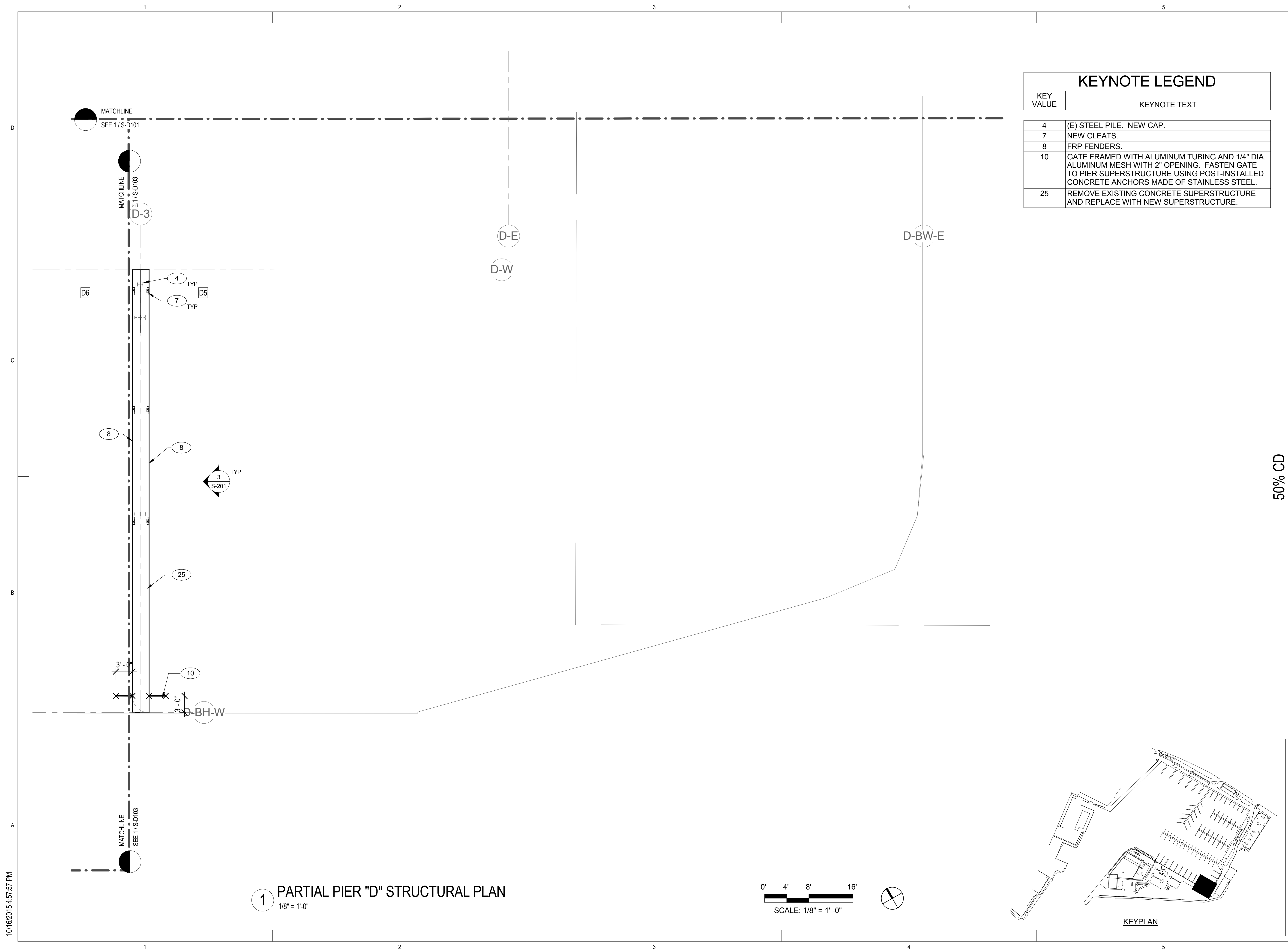
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DATE 10/16/15

S-D101

4	(E) STEEL PILE. NEW CAP.
7	NEW CLEATS.
8	FRP FENDERS.
10	GATE FRAMED WITH ALUMINUM TUBING AND 1/4" DIA. ALUMINUM MESH WITH 2" OPENING. FASTEN GATE TO PIER SUPERSTRUCTURE USING POST-INSTALLED CONCRETE ANCHORS MADE OF STAINLESS STEEL.
25	REMOVE EXISTING CONCRETE SUPERSTRUCTURE AND REPLACE WITH NEW SUPERSTRUCTURE.

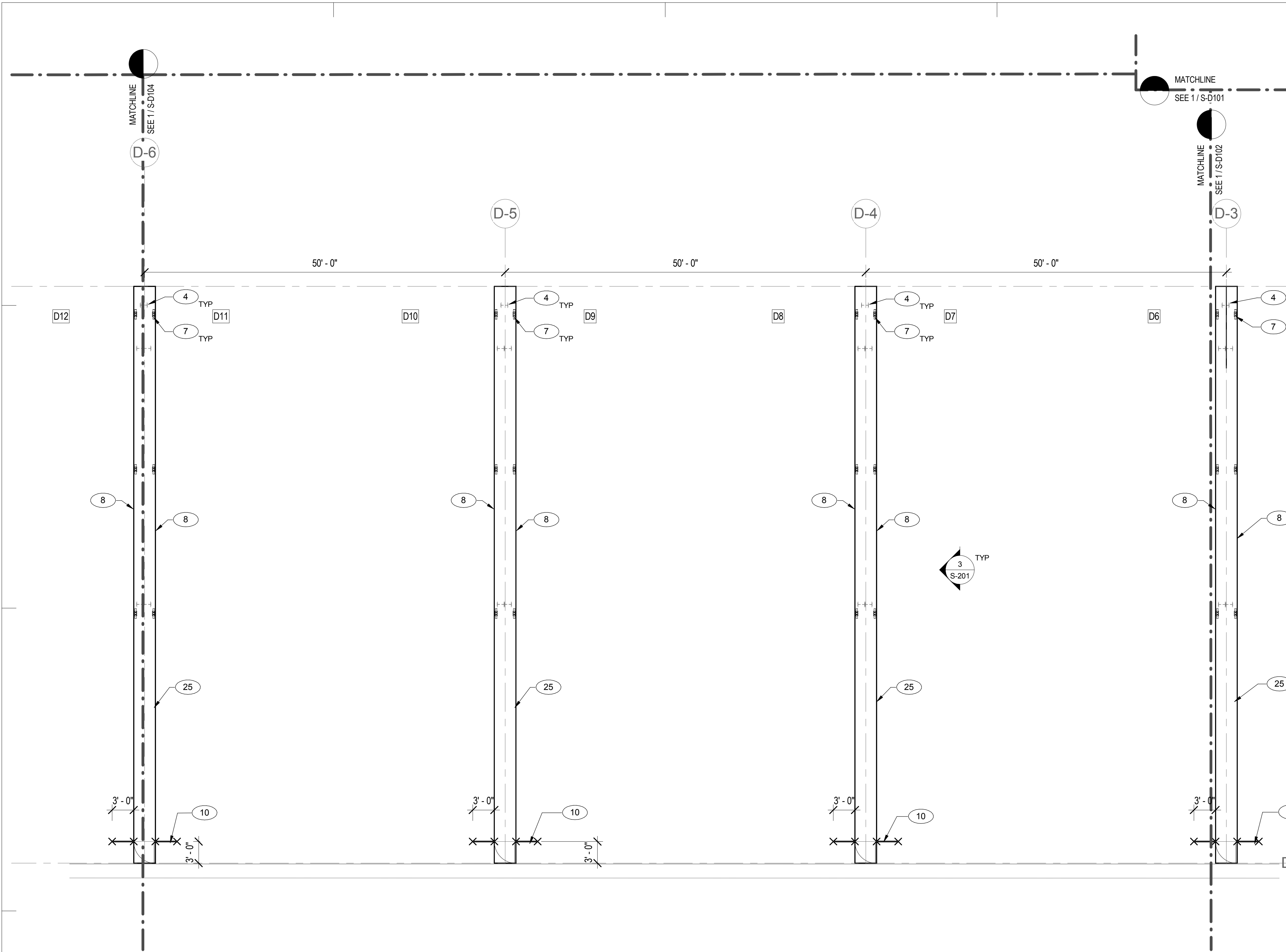


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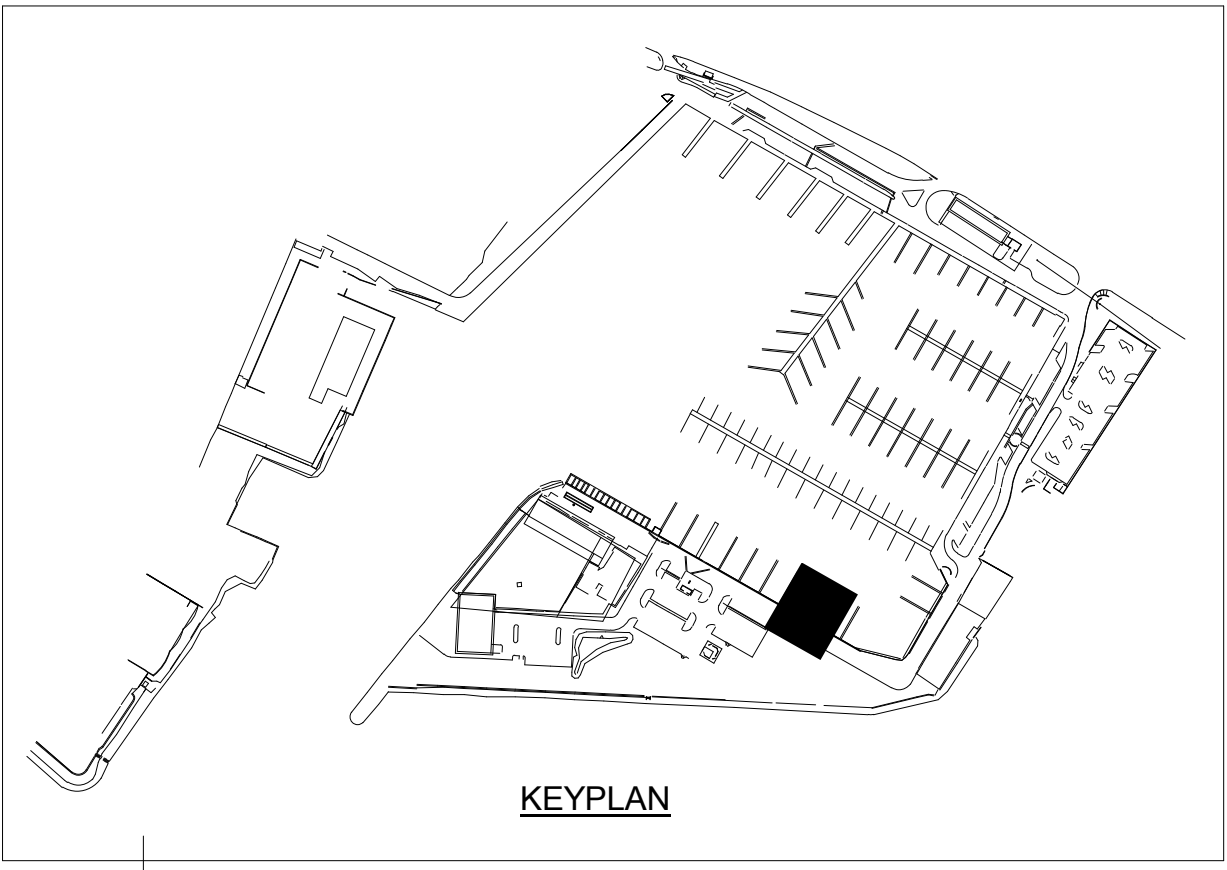
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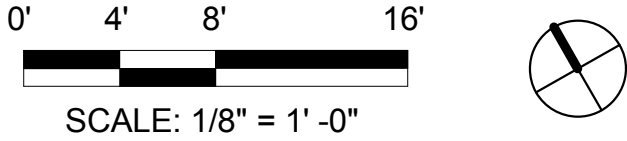
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KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
4	(E) STEEL PILE. NEW CAP.
7	NEW CLEATS.
8	FRP FENDERS.
10	GATE FRAMED WITH ALUMINUM TUBING AND 1/4" DIA. ALUMINUM MESH WITH 2" OPENING. FASTEN GATE TO PIER SUPERSTRUCTURE USING POST-INSTALLED CONCRETE ANCHORS MADE OF STAINLESS STEEL.
25	REMOVE EXISTING CONCRETE SUPERSTRUCTURE AND REPLACE WITH NEW SUPERSTRUCTURE.



1 PARTIAL PIER "D" STRUCTURAL PLAN
1/8" = 1'-0"



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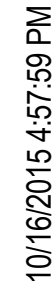
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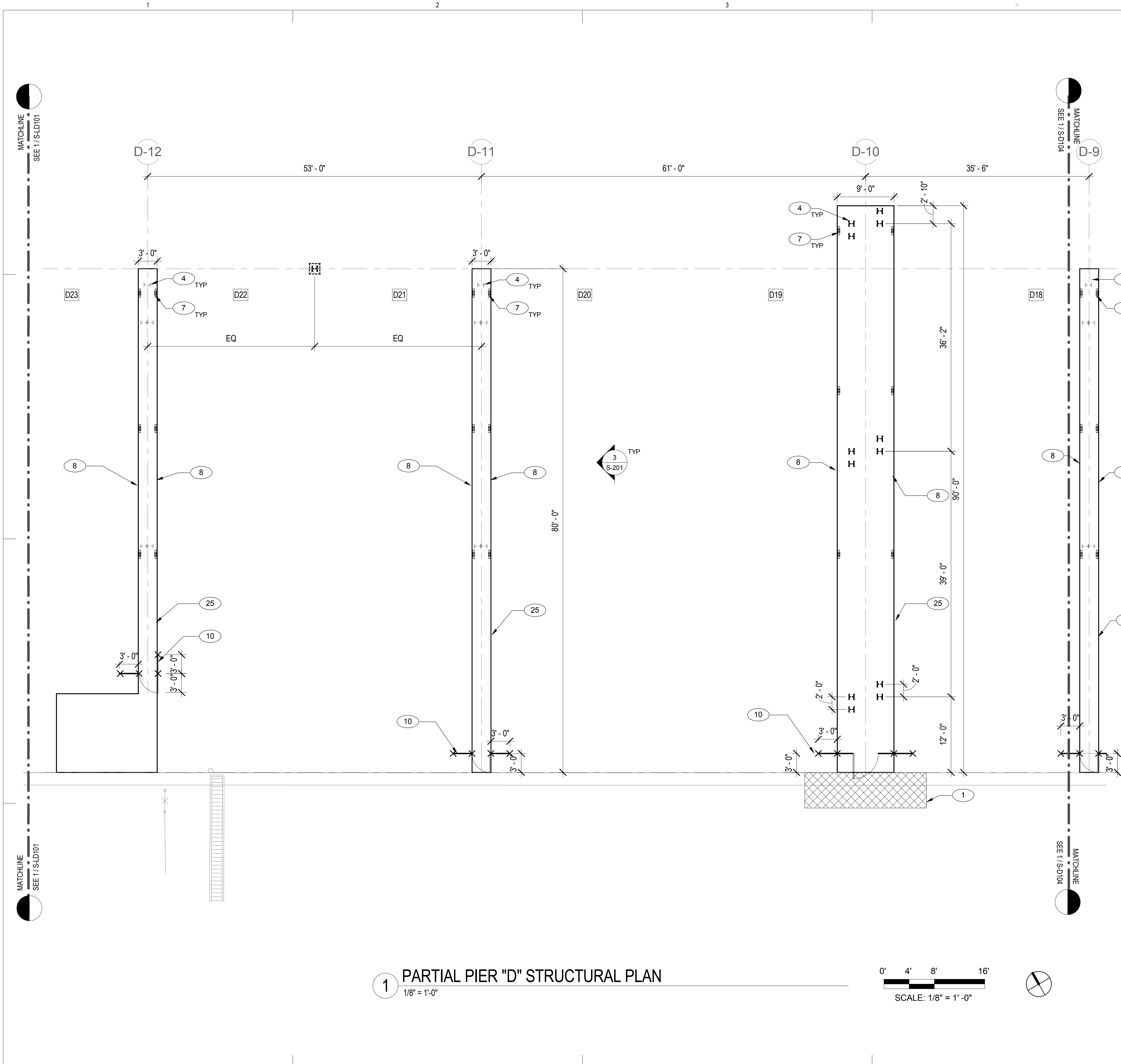
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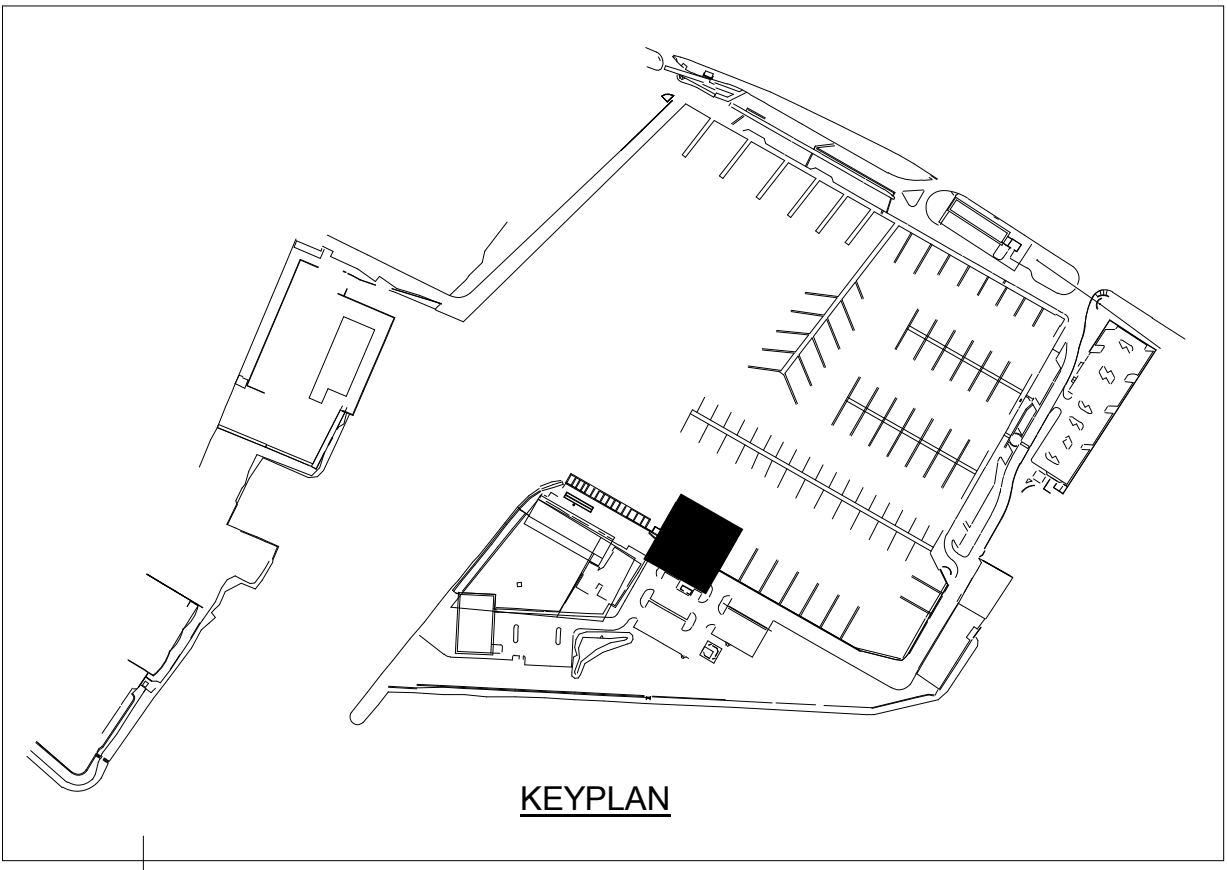
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KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	REPAIR CRACKS IN (E) SHEET PILE BULKHEAD CAP.
4	(E) STEEL PILE. NEW CAP.
7	NEW CLEATS.
8	FRP FENDERS.
10	GATE FRAMED WITH ALUMINUM TUBING AND 1/4" DIA. ALUMINUM MESH WITH 2" OPENING. FASTEN GATE TO PIER SUPERSTRUCTURE USING POST-INSTALLED CONCRETE ANCHORS MADE OF STAINLESS STEEL.
25	REMOVE EXISTING CONCRETE SUPERSTRUCTURE AND REPLACE WITH NEW SUPERSTRUCTURE.



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PARTIAL PIER "D" STRUCTURAL PLAN

REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO. 150172

DRAWN BY: AH

DESIGNED BY: PB

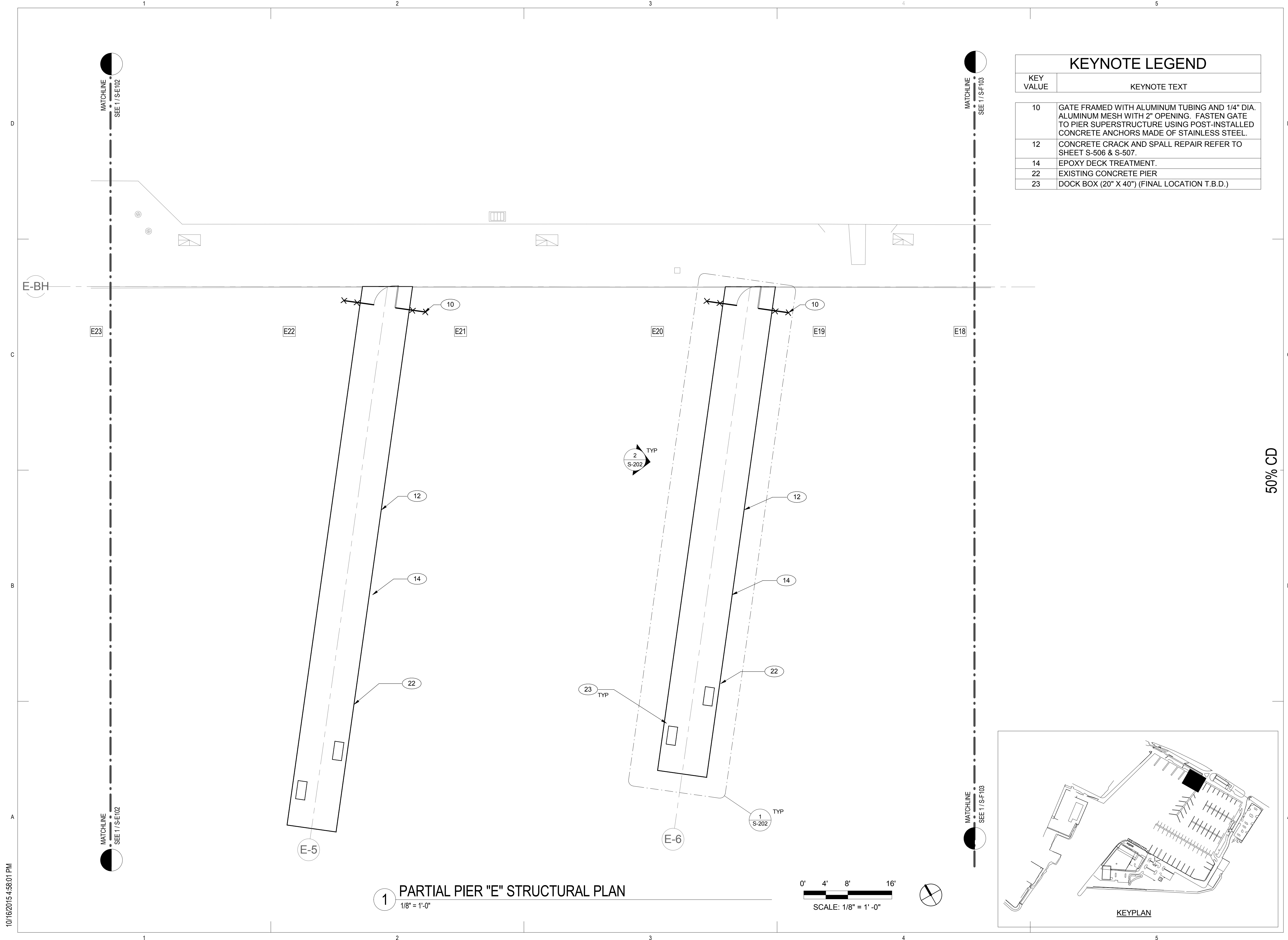
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DATE 10/16/15

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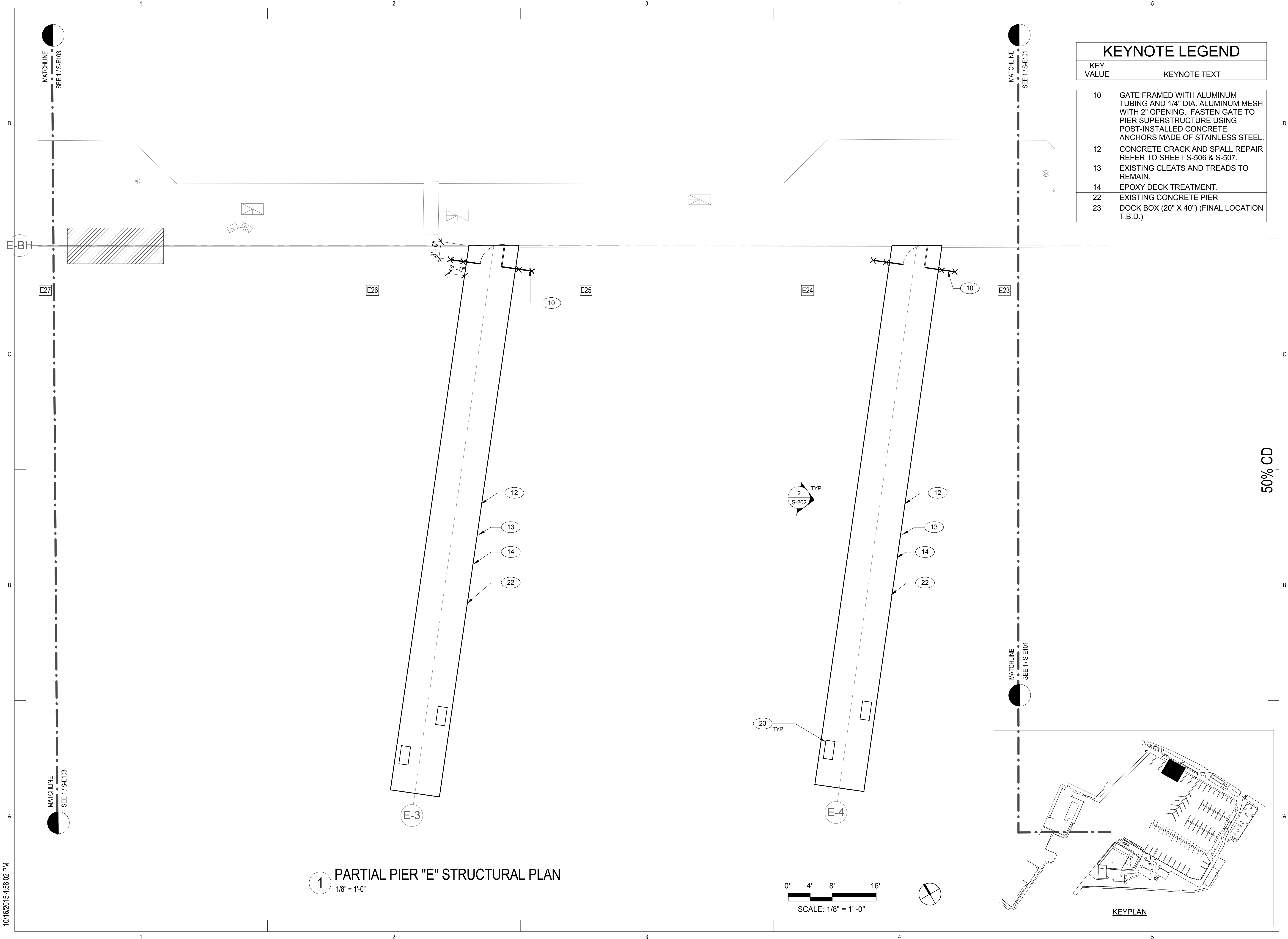
KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
10	GATE FRAMED WITH ALUMINUM TUBING AND 1/4" DIA. ALUMINUM MESH WITH 2" OPENING. FASTEN GATE TO PIER SUPERSTRUCTURE USING POST-INSTALLED CONCRETE ANCHORS MADE OF STAINLESS STEEL.
12	CONCRETE CRACK AND SPALL REPAIR REFER TO SHEET S-506 & S-507.
14	EPOXY DECK TREATMENT.
22	EXISTING CONCRETE PIER
23	DOCK BOX (20" X 40") (FINAL LOCATION T.B.D.)



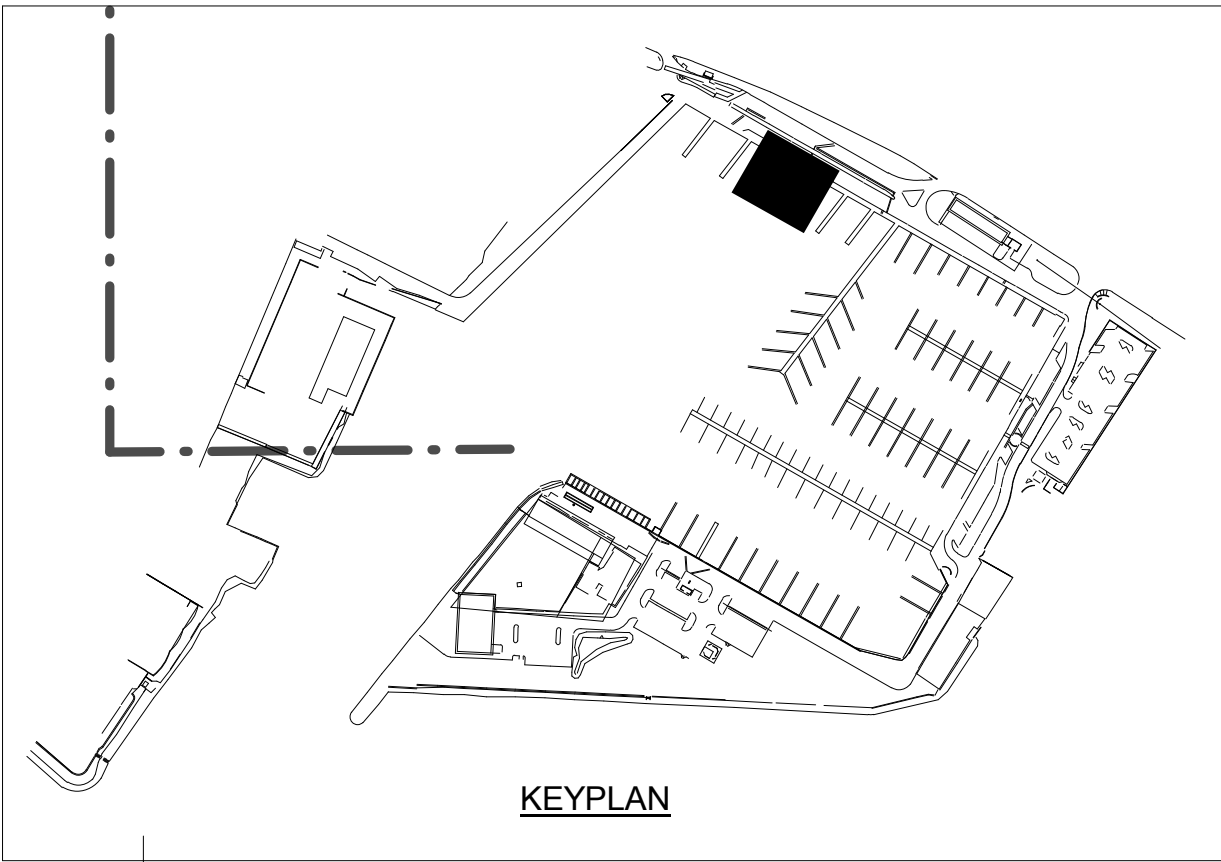
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KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
10	GATE FRAMED WITH ALUMINUM TUBING AND 1/4" DIA. ALUMINUM MESH WITH 2" OPENING. FASTEN GATE TO PIER SUPERSTRUCTURE USING POST-INSTALLED CONCRETE ANCHORS MADE OF STAINLESS STEEL.
12	CONCRETE CRACK AND SPALL REPAIR REFER TO SHEET S-506 & S-507.
13	EXISTING CLEATS AND TREADS TO REMAIN.
14	EPOXY DECK TREATMENT.
22	EXISTING CONCRETE PIER
23	DOCK BOX (20" X 40") (FINAL LOCATION T.B.D.)



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NO.	DATE	DESCRIPTION	BY

PROJECT NO. 150172

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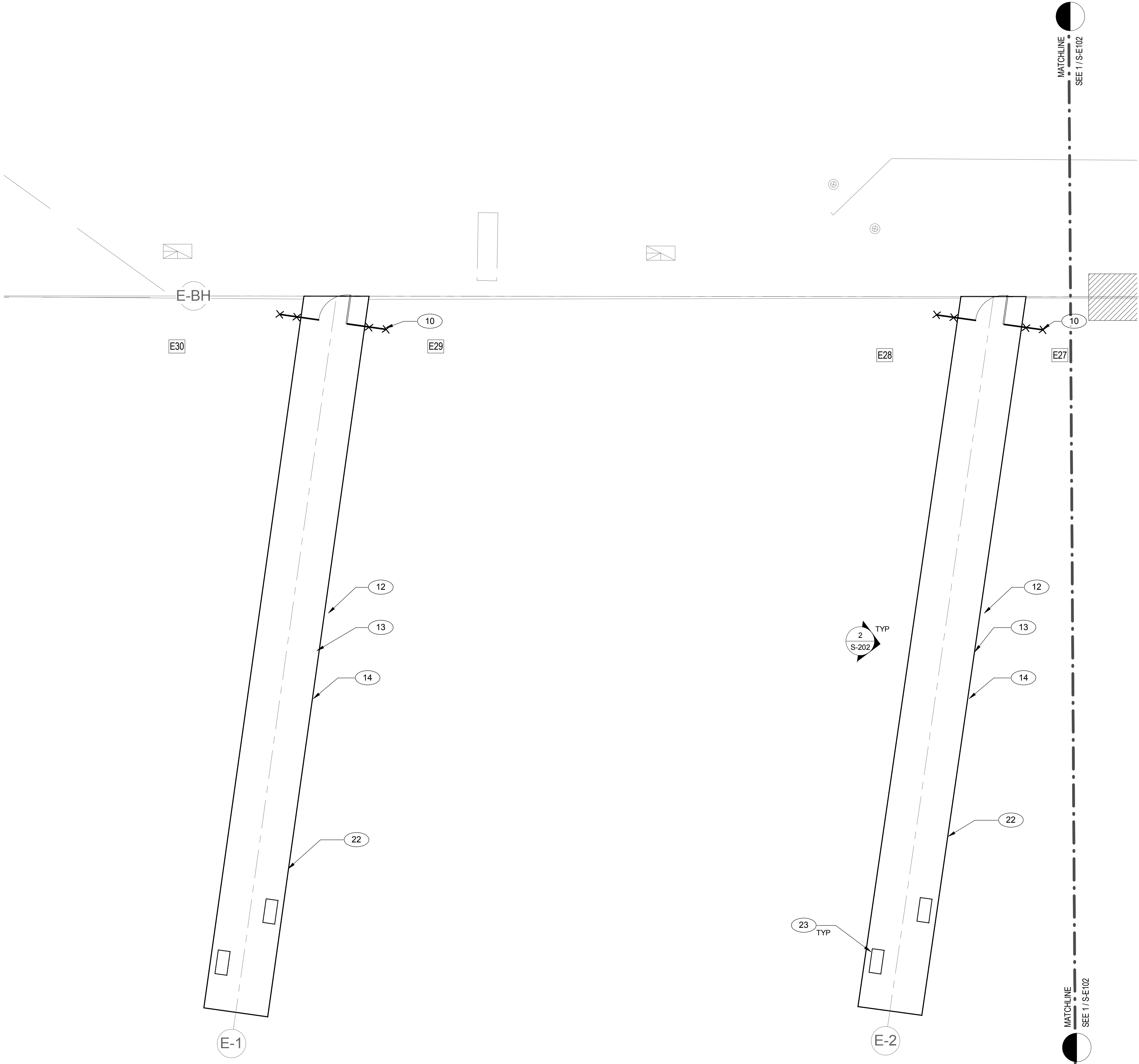
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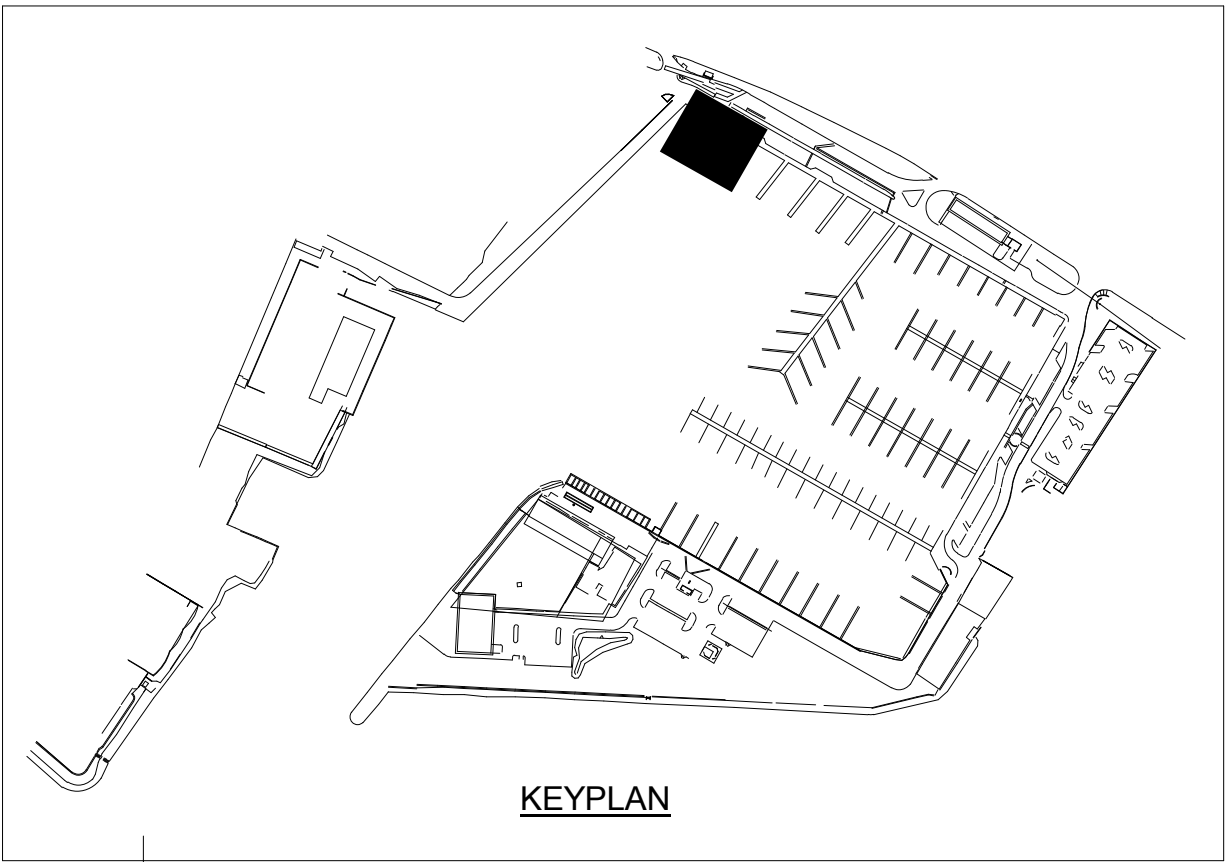
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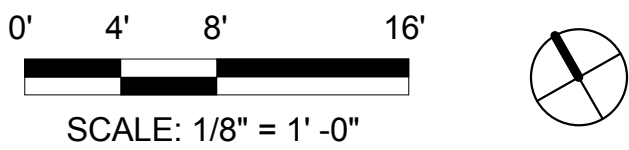
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KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
10	GATE FRAMED WITH ALUMINUM TUBING AND 1/4" DIA. ALUMINUM MESH WITH 2" OPENING. FASTEN GATE TO PIER SUPERSTRUCTURE USING POST-INSTALLED CONCRETE ANCHORS MADE OF STAINLESS STEEL.
12	CONCRETE CRACK AND SPALL REPAIR REFER TO SHEET S-506 & S-507.
13	EXISTING CLEATS AND TREADS TO REMAIN.
14	EPOXY DECK TREATMENT.
22	EXISTING CONCRETE PIER
23	DOCK BOX (20" X 40") (FINAL LOCATION T.B.D.)



1 PARTIAL PIER "E" STRUCTURAL PLAN
1/8" = 1'-0"



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PARTIAL PIER "E" STRUCTURAL PLAN

REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO.

150172

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AH

DESIGNED BY:

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CHECKED BY:

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DATE

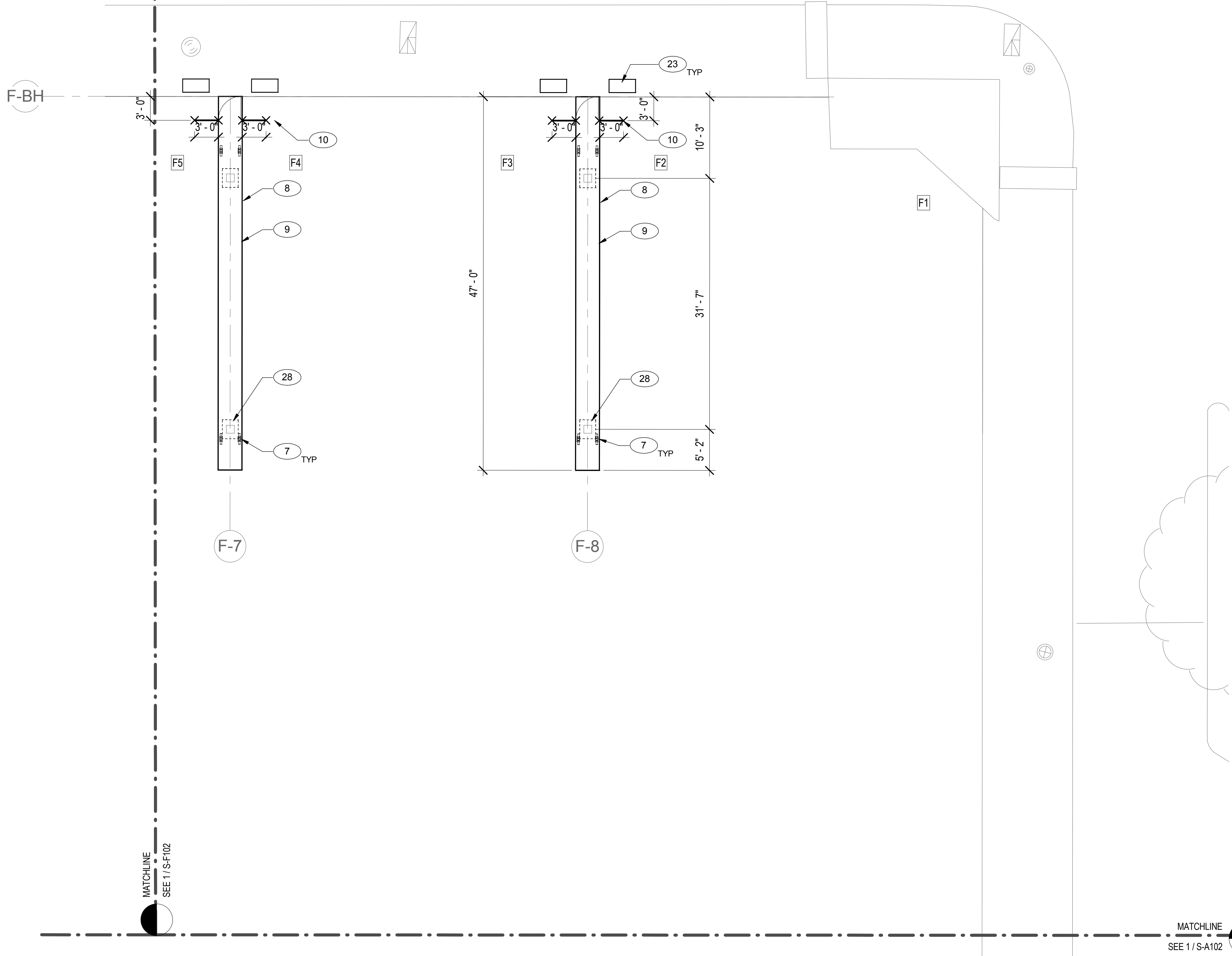
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S-E103

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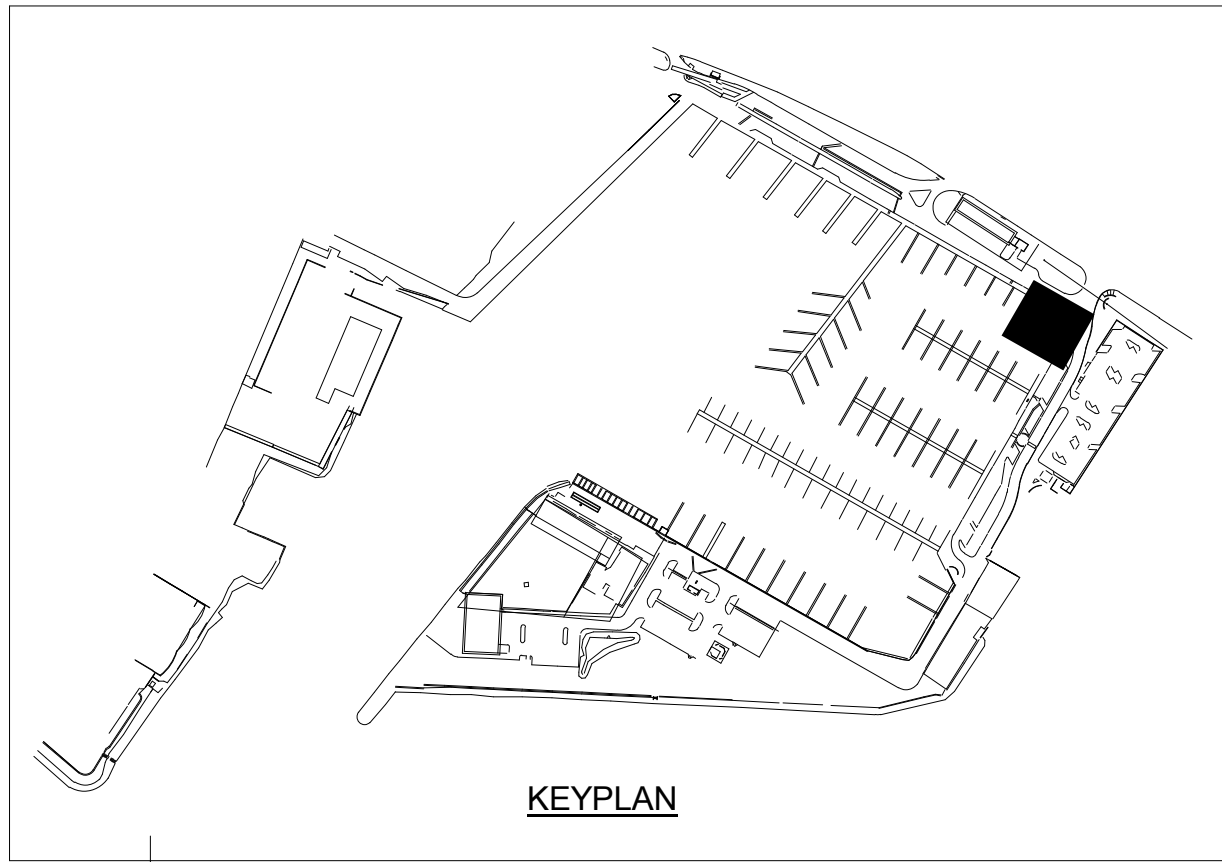
A
B
C
D

MATCHLINE SEE 1 / S-F102
MATCHLINE SEE 1 / S-F102



1 PARTIAL PIER "F" STRUCTURAL PLAN
1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1' -0"
MATCHLINE SEE 1 / S-A102



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
7	NEW CLEATS.
8	FRP FENDERS.
9	ALUMINUM FRAMED SUPERSTRUCTURE FRP MINI MESH PANELS.
10	GATE FRAMED WITH ALUMINUM TUBING AND 1/4" DIA. ALUMINUM MESH WITH 2" OPENING. FASTEN GATE TO PIER SUPERSTRUCTURE USING POST-INSTALLED CONCRETE ANCHORS MADE OF STAINLESS STEEL.
23	DOCK BOX (20" X 40") (FINAL LOCATION T.B.D.)
28	NEW PILE & PILE CAP.

NOT FOR CONSTRUCTION

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HARBOR IMPROVEMENTS
HONOLULU

DRAWING TITLE

PARTIAL PIER "F" STRUCTURAL PLAN

REVISIONS		BY	DATE	NO.	DESCRIPTION

PROJECT NO.

150172

DRAWN BY:

AH

DESIGNED BY:

PB

CHECKED BY:

BM

REVIEWED BY:

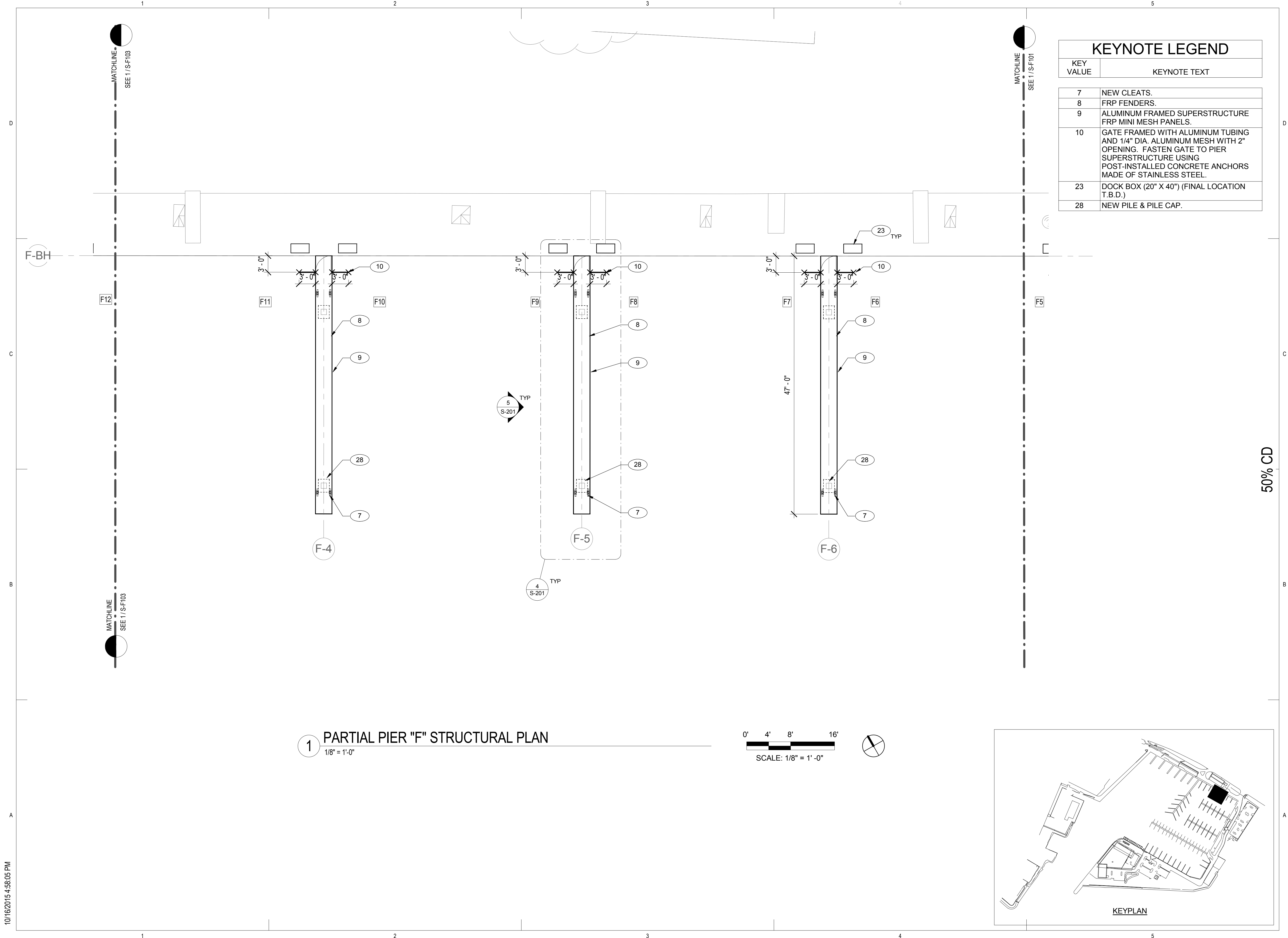
-

DATE

10/16/15

S-F101

10/16/2015 4:58:05 PM



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
7	NEW CLEATS.
8	FRP FENDERS.
9	ALUMINUM FRAMED SUPERSTRUCTURE FRP MINI MESH PANELS.
10	GATE FRAMED WITH ALUMINUM TUBING AND 1/4" DIA. ALUMINUM MESH WITH 2" OPENING. FASTEN GATE TO PIER SUPERSTRUCTURE USING POST-INSTALLED CONCRETE ANCHORS MADE OF STAINLESS STEEL.
23	DOCK BOX (20" X 40") (FINAL LOCATION T.B.D.)
28	NEW PILE & PILE CAP.

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HONOLULU, HAWAII

DRAWING TITLE

REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO. 150172

DRAWN BY: AH

DESIGNED BY: PB

CHECKED BY: BM

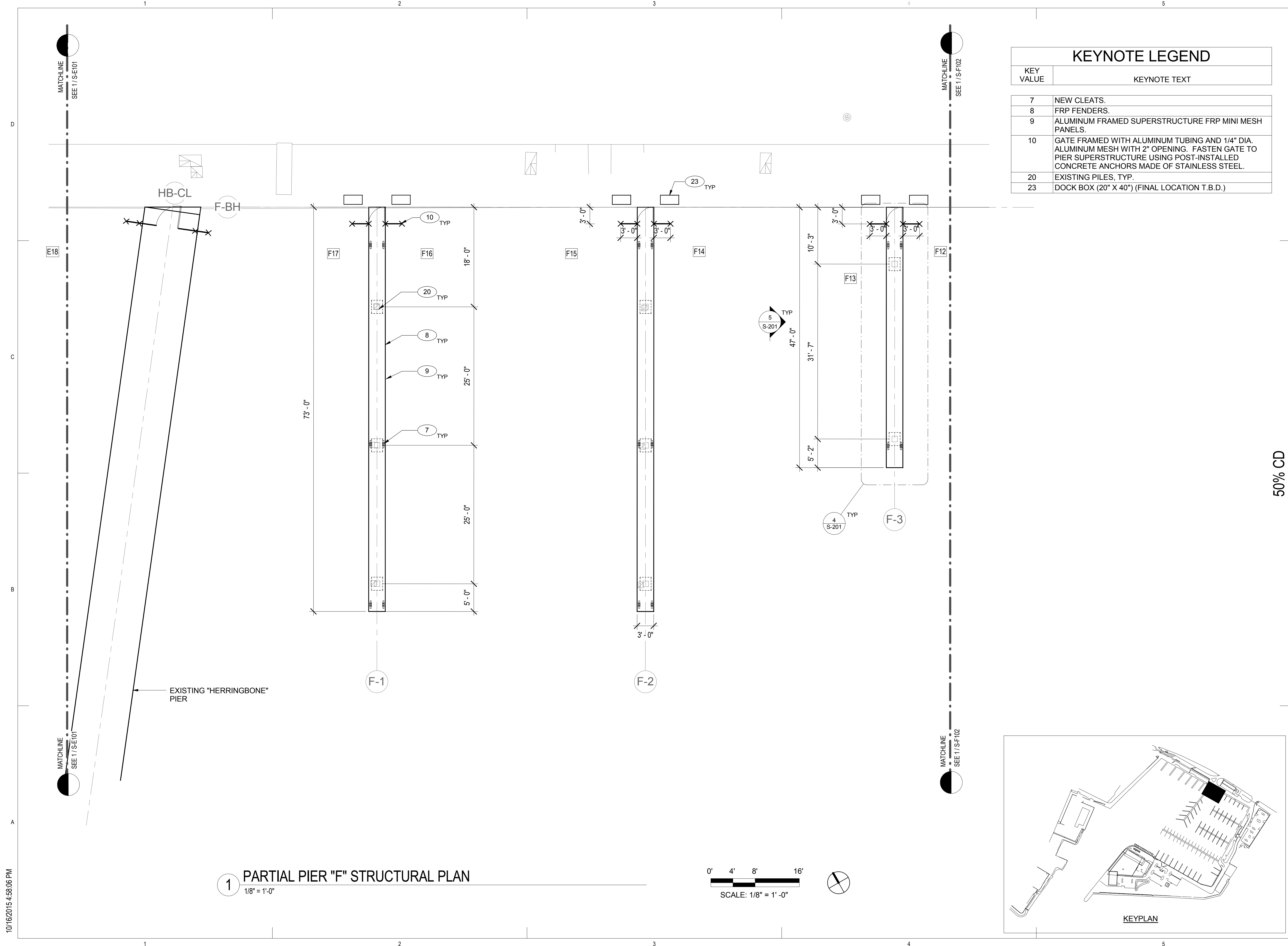
REVIEWED BY:

DATE 10/16/15

S-F102

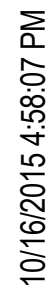
A detailed keyplan of the site. The plan shows an existing building on the left, a new building (indicated by a thick black outline) on the right, and a large parking area in the center. The parking area is divided into several sections, with the central section containing the most parking spaces. The plan also shows the surrounding roads and the location of the site within the local context.

S-F103

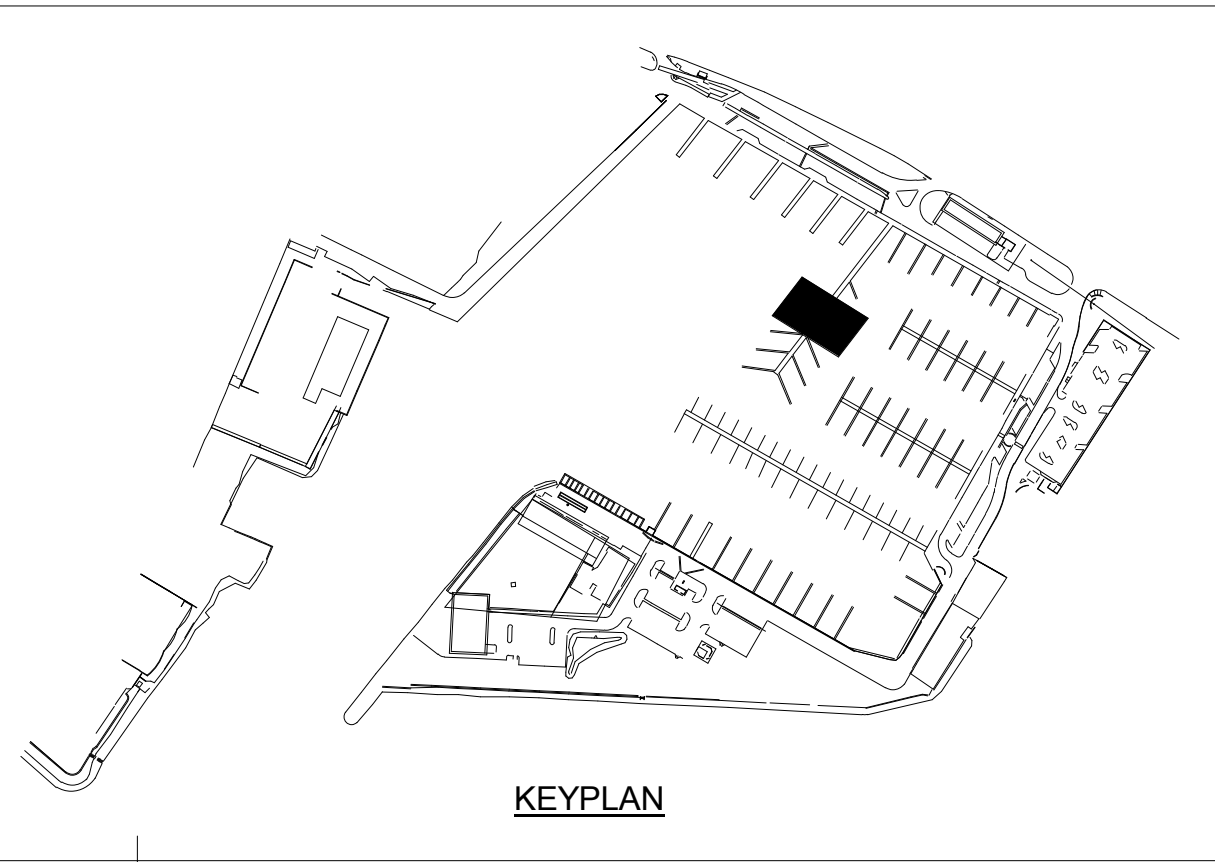
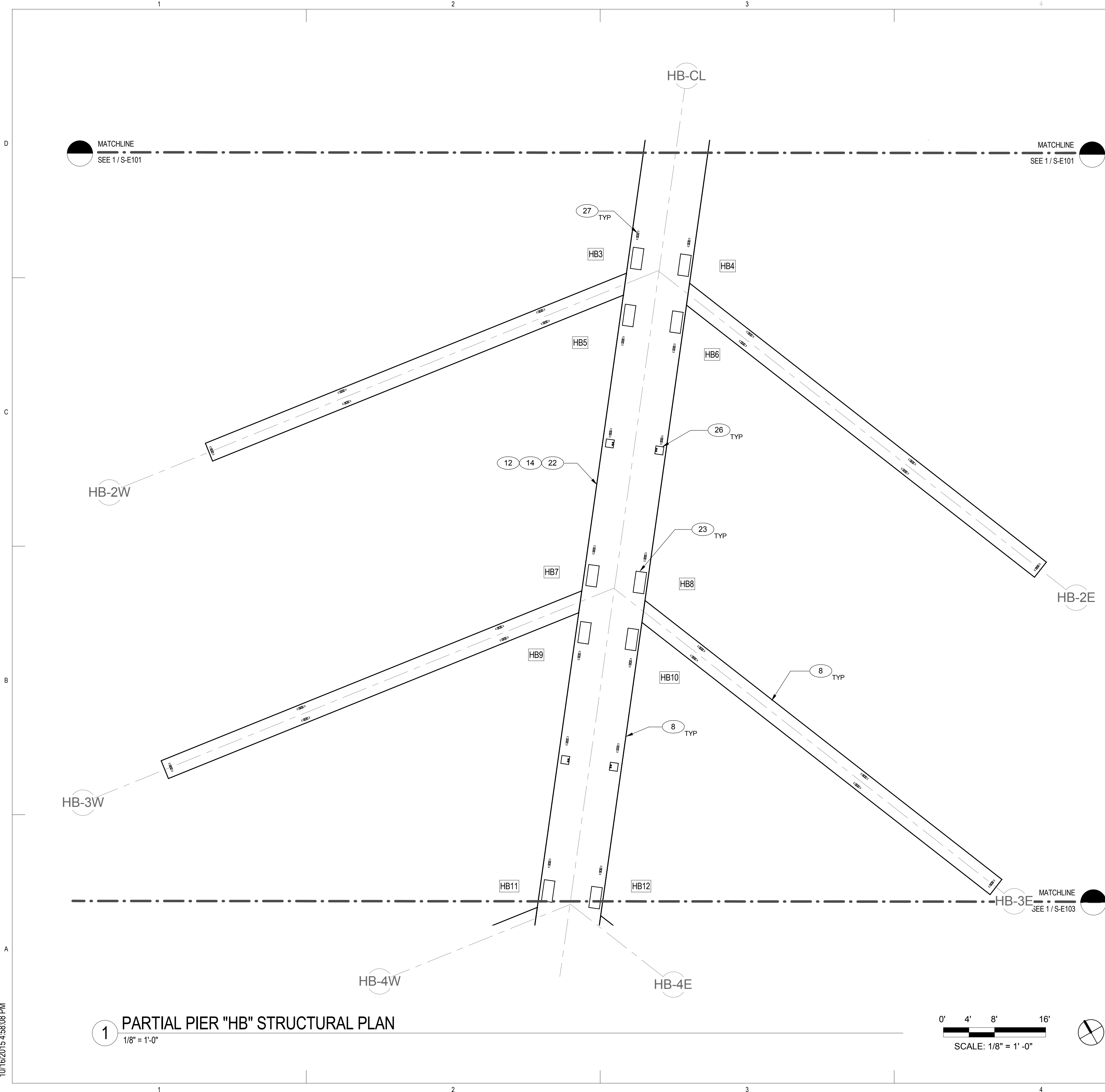


KEYPLAN

S-HB101



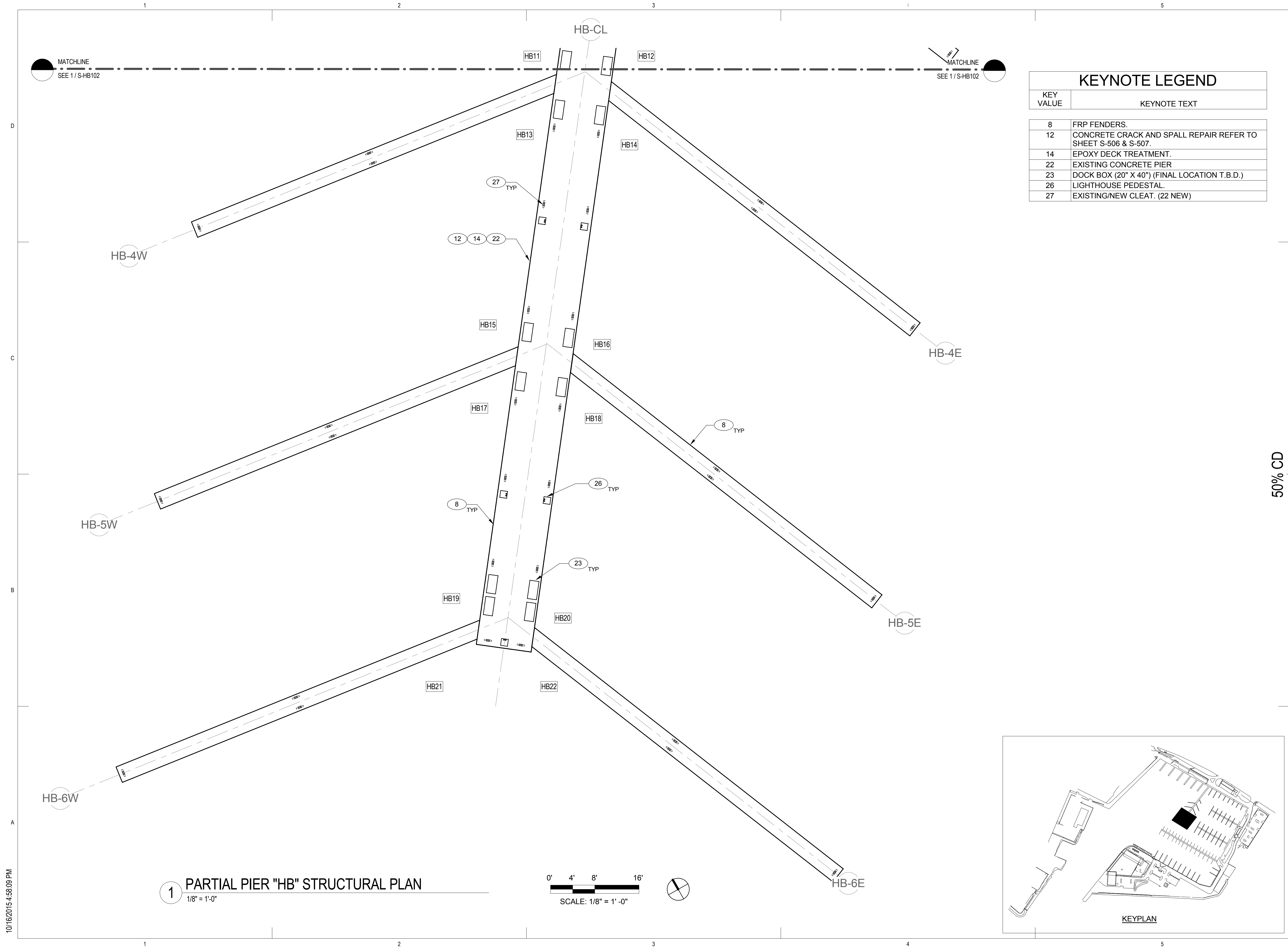
KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
8	FRP FENDERS.
12	CONCRETE CRACK AND SPALL REPAIR REFER TO SHEET S-506 & S-507.
14	EPOXY DECK TREATMENT.
22	EXISTING CONCRETE PIER
23	DOCK BOX (20" X 40") (FINAL LOCATION T.B.D.)
26	LIGHTHOUSE PEDESTAL.
27	EXISTING/NEW CLEAT. (22 NEW)



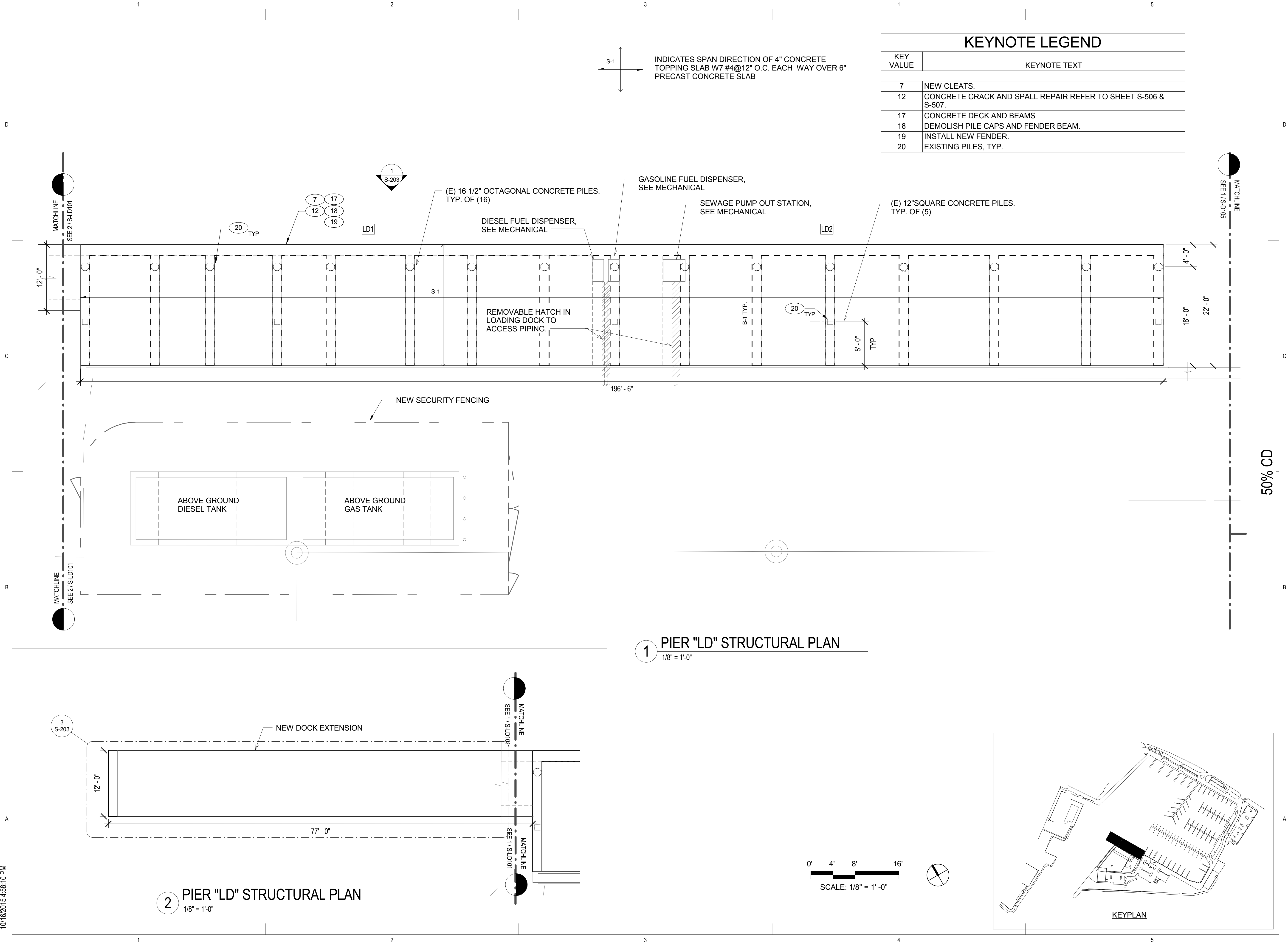
<div> <div> <div>KEWALO BASIN</div> <div>HARBOR IMPROVEMENTS</div> <div>HONOLULU</div> </div> <div> <div>HAWAII</div> </div> </div>				<div> <div>PARTIAL PIER "HB" STRUCTURAL PLAN</div> </div>	
<div> <div> <div>REVISONS</div> <div> <div>NO.</div> <div>DATE</div> <div>DESCRIPTION</div> <div>BY</div> </div> </div> </div>				<div> <div>DRAWING TITLE</div> </div>	
PROJECT NO.				150172	
DRAWN BY:				AH	
DESIGNED BY:				PB	
CHECKED BY:				BM	
REVIEWED BY:				-	
DATE				10/16/15	

KEYPLAN

S-HB103



10/16/2015 4:58:10 PM



INDICATES SPAN DIRECTION OF 4" CONCRETE TOPPING SLAB W7 #4@12" O.C. EACH WAY OVER 6" PRECAST CONCRETE SLAB

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
7	NEW CLEATS.
12	CONCRETE CRACK AND SPALL REPAIR REFER TO SHEET S-506 & S-507.
17	CONCRETE DECK AND BEAMS
18	DEMOLISH PILE CAPS AND FENDER BEAM.
19	INSTALL NEW FENDER.
20	EXISTING PILES, TYP.

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PIER "LD" STRUCTURAL PLAN

REVISIONS

NO.	DATE	DESCRIPTION	BY

PROJECT NO.

150172

DRAWN BY:

AH

DESIGNED BY:

PB

CHECKED BY:

BM

REVIEWED BY:

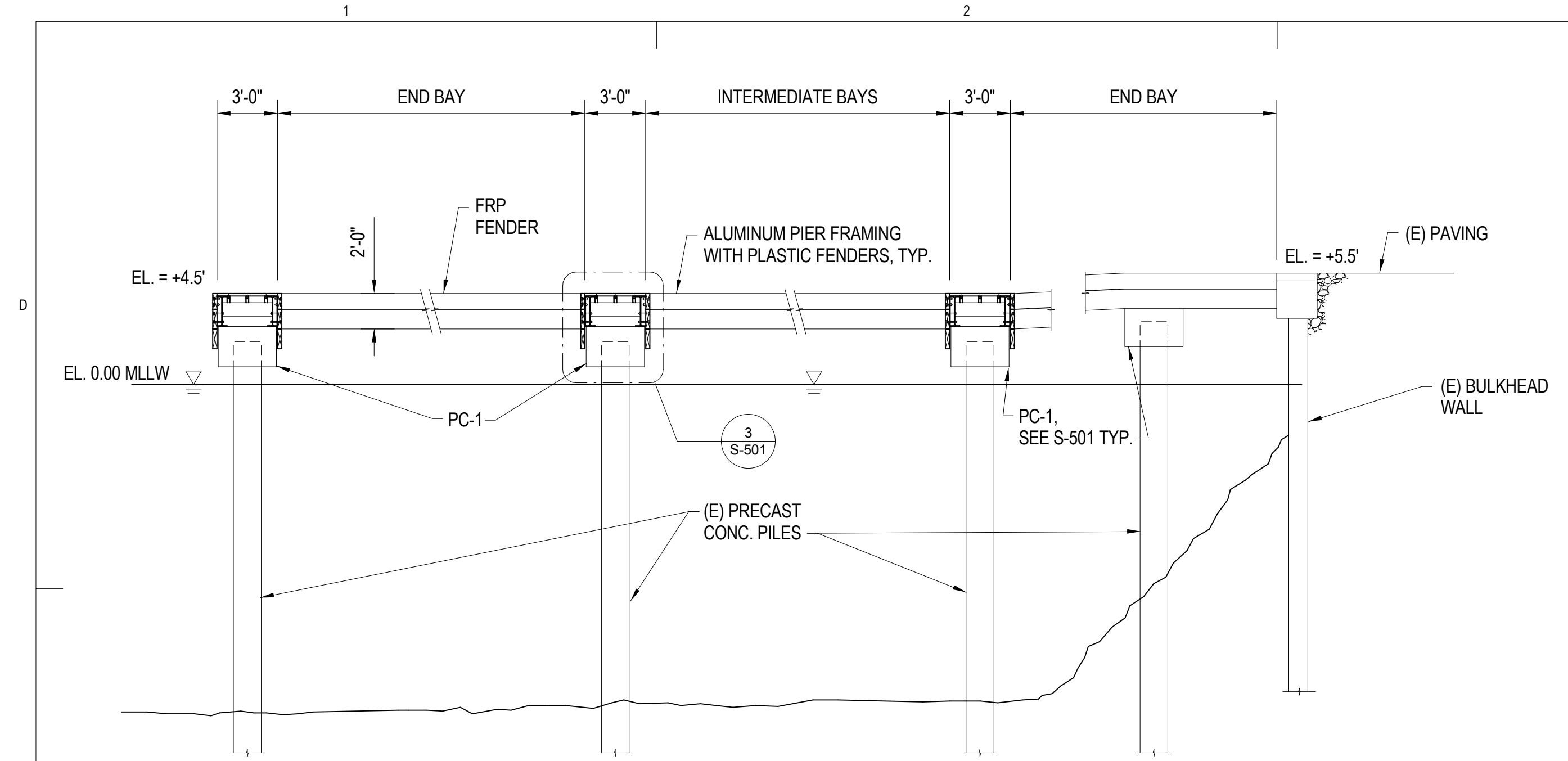
-

DATE

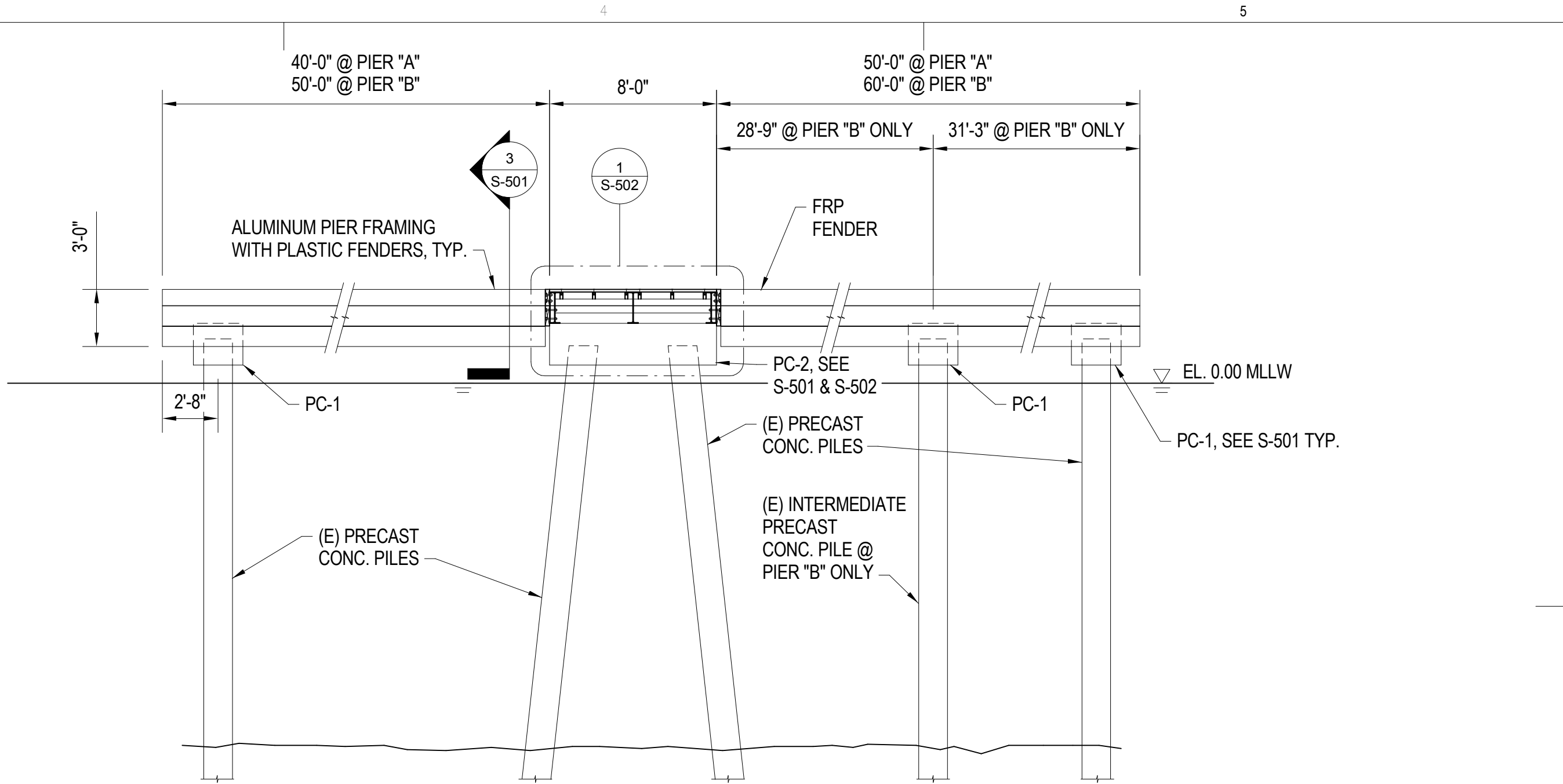
10/16/15

S-LD101

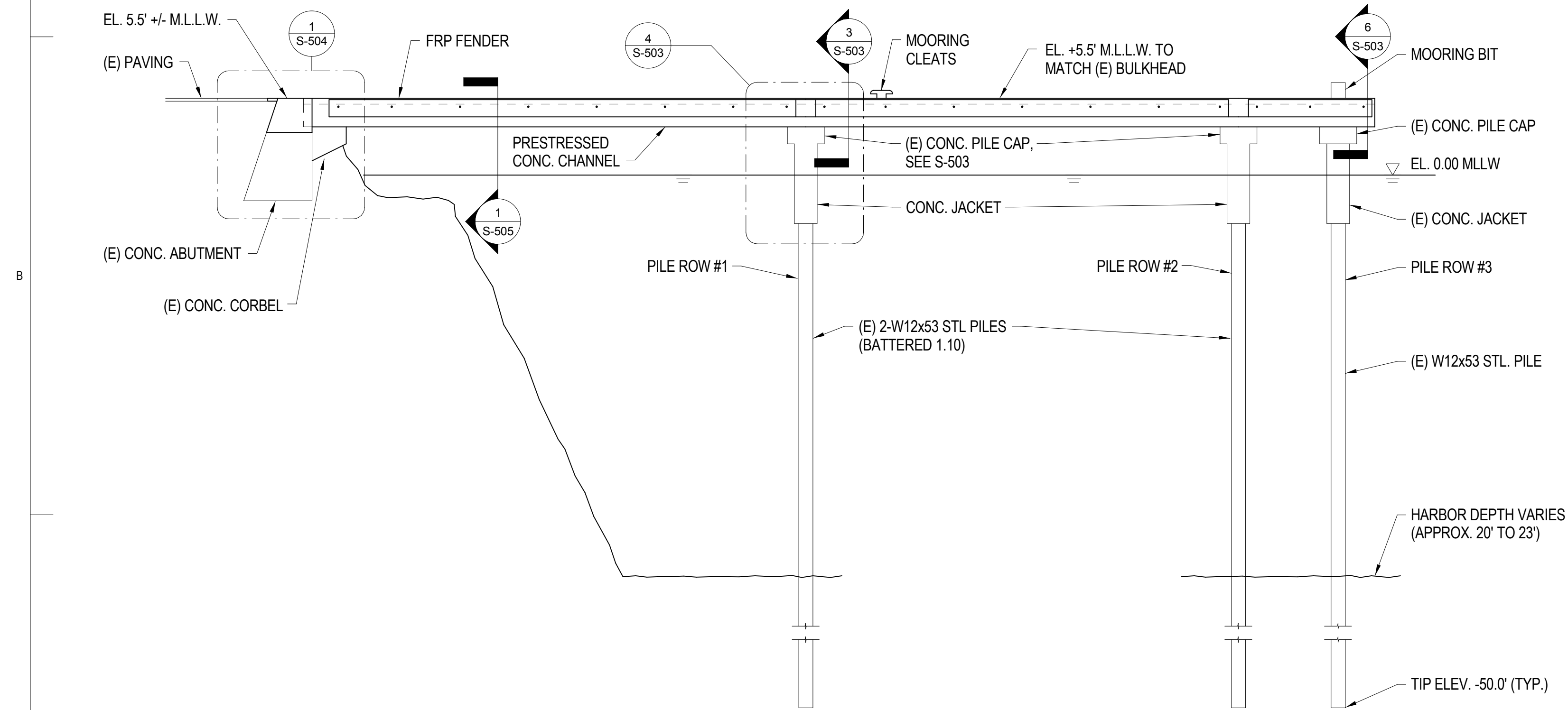
SCALE: 1/8" = 1'-0"



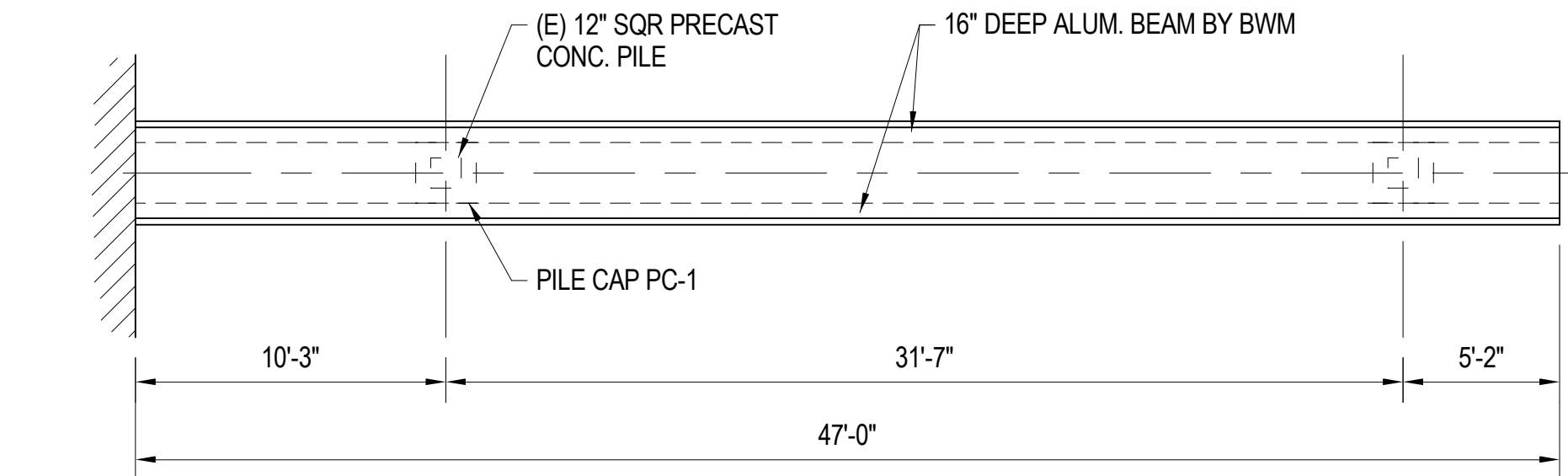
1 ELEVATION AT PIER "A" AND "B" ("C" SIM.)
3/16" = 1'-0"



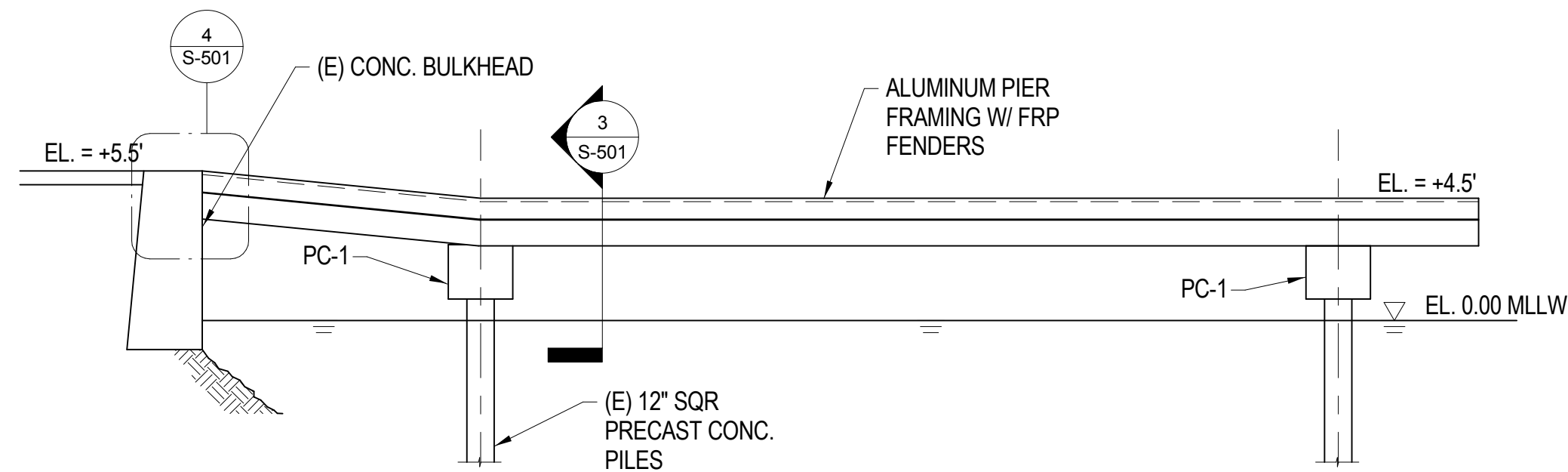
2 ELEVATION AT PIER "A" AND "B" ("C" SIM.)
3/16" = 1'-0"



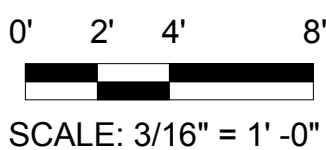
3 ELEVATION PIER "D"
3/16" = 1'-0"



4 TYP. PLAN AT PIER "F"
3/16" = 1'-0"



5 TYP. ELEVATION AT PIER "F"
3/16" = 1'-0"



SCALE: 3/16" = 1' -0"

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HARBOR IMPROVEMENTS
HAWAII
HONOLULU

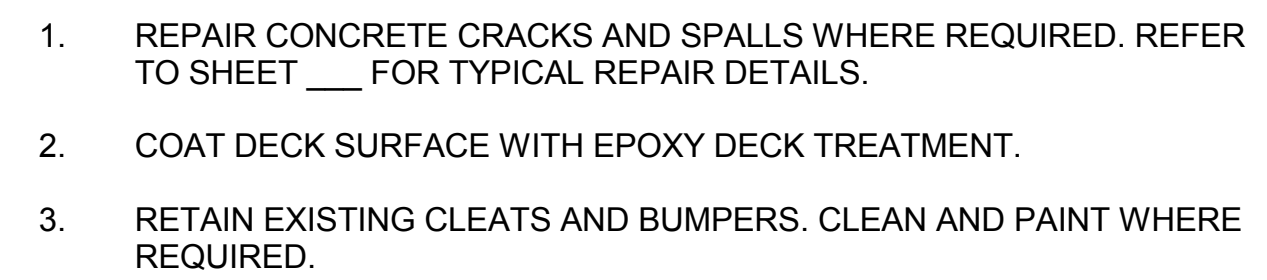
DRAWING TITLE

PIER PLAN AND ELEVATION

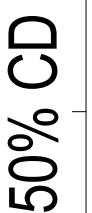
REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO.	150172
DRAWN BY:	AH
DESIGNED BY:	PB
CHECKED BY:	BM
REVIEWED BY:	-
DATE	10/16/15

S-201




1 SIMIL
1/4" = 1'-0"



2 PIER
1/4" = 1'-0"

0' 2' 4' 8'



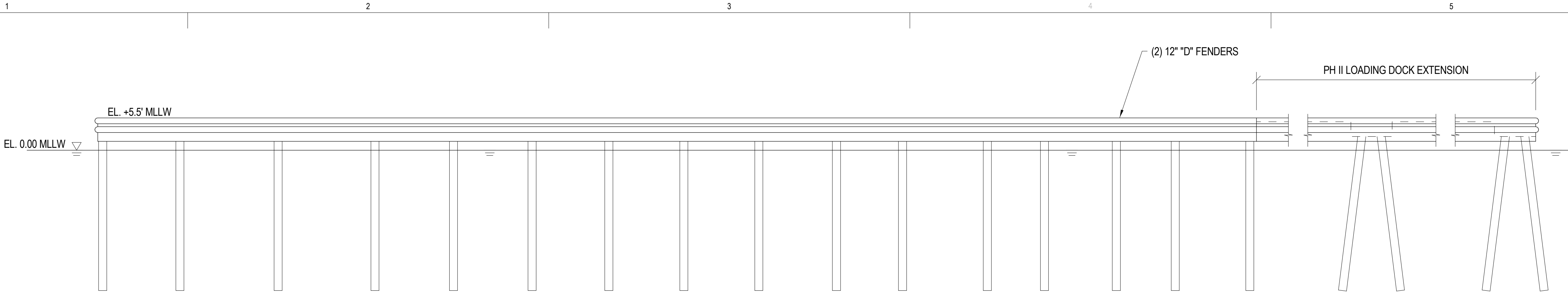
SCALE: $\frac{1}{4}'' = 1' - 0''$

KEWALO BASIN HARBOR IMPROVEMENTS HONOLULU HAWAII

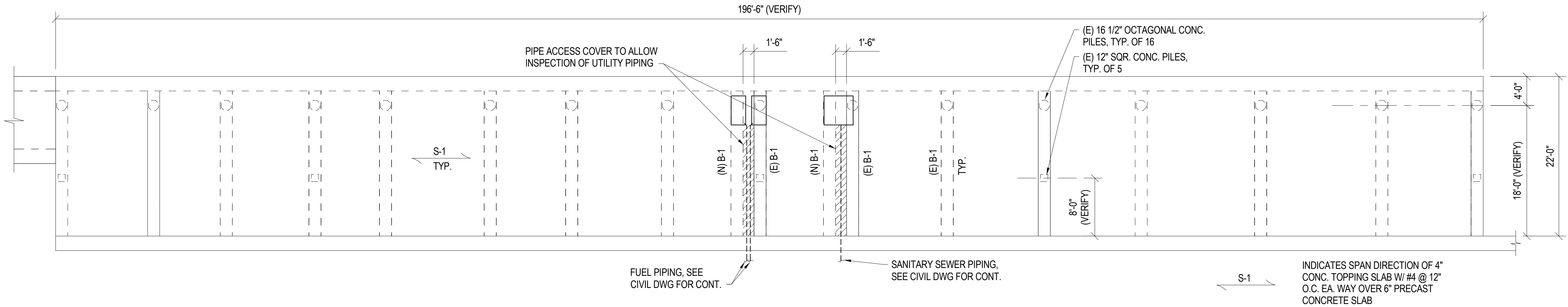
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S-202

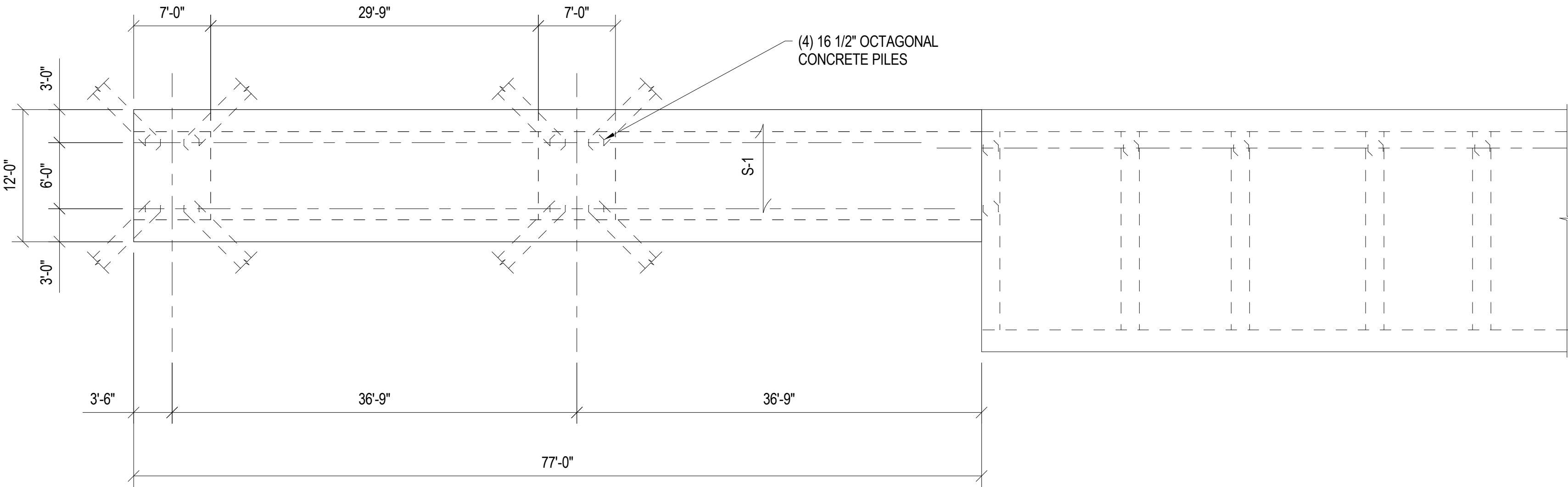
10/16/2015 4:57:41 PM



1 PIER LD ELEVATION
3/32" = 1'-0"



2 PIER LD PLAN
1/8" = 1'-0"



3 LOADING DOCK EXTENSION (PHASE II)
1/8" = 1'-0"

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KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU, HAWAII

PIER LD PLAN AND ELEVATION

DRAWING TITLE

REVISIONS		BY	DATE	NO.
DESCRIPTION				

PROJECT NO.

150172

DRAWN BY:

MC

DESIGNED BY:

PB

CHECKED BY:

BM

REVIEWED BY:

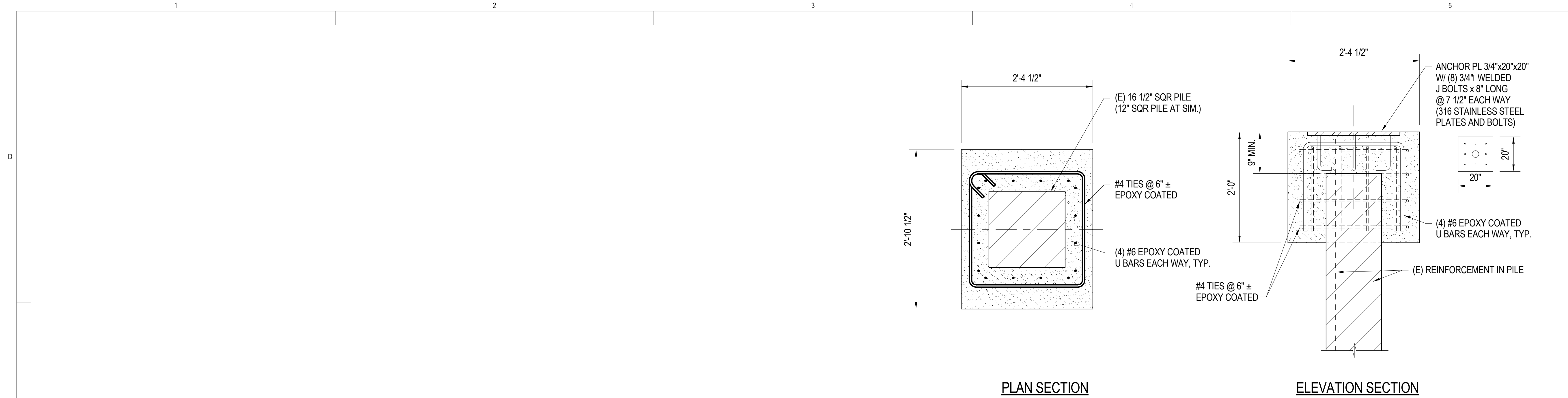
-

DATE

10/16/15

S-203

10/16/2015 4:57:41 PM

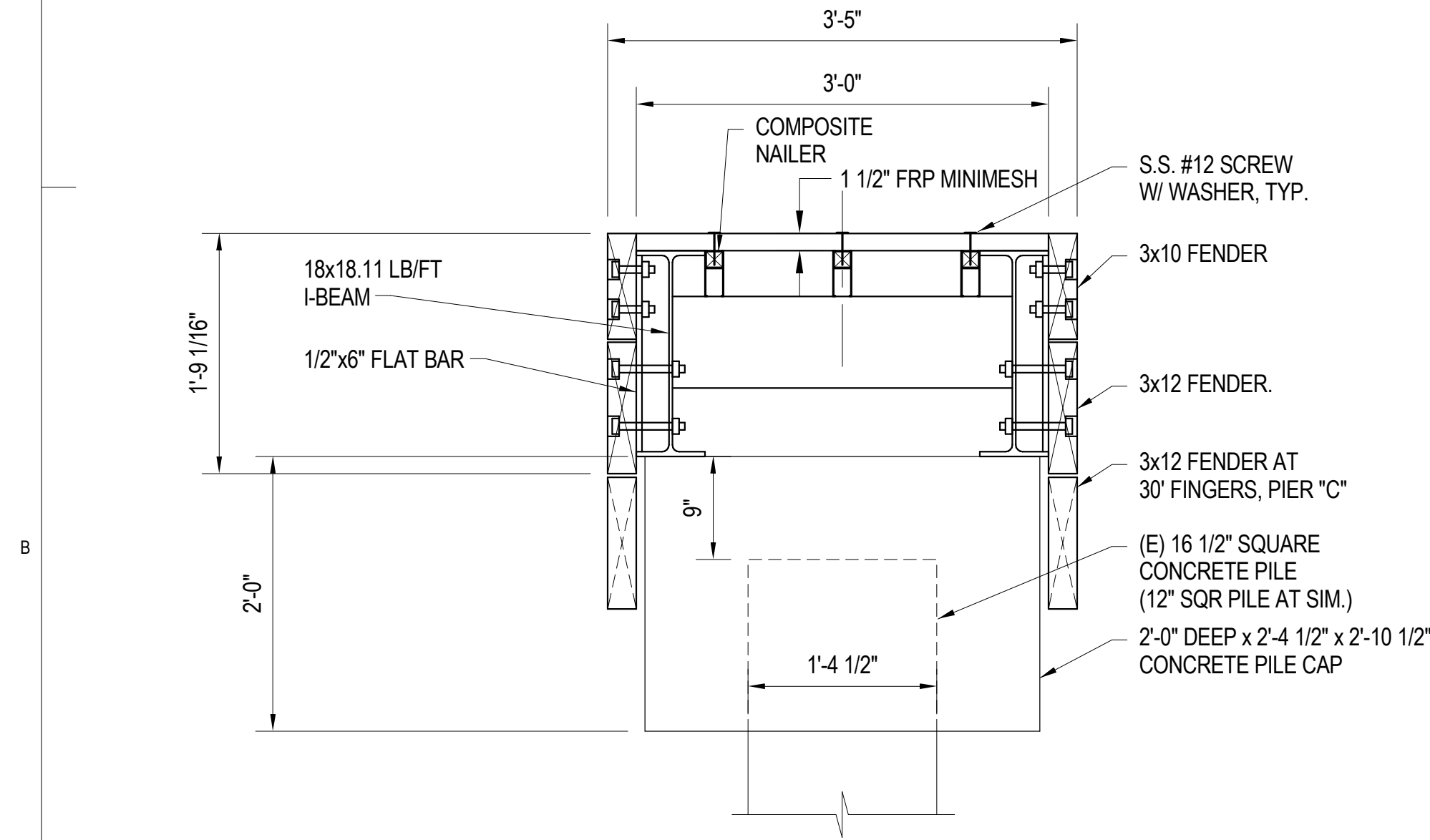


PLAN SECTION

ELEVATION SECTION

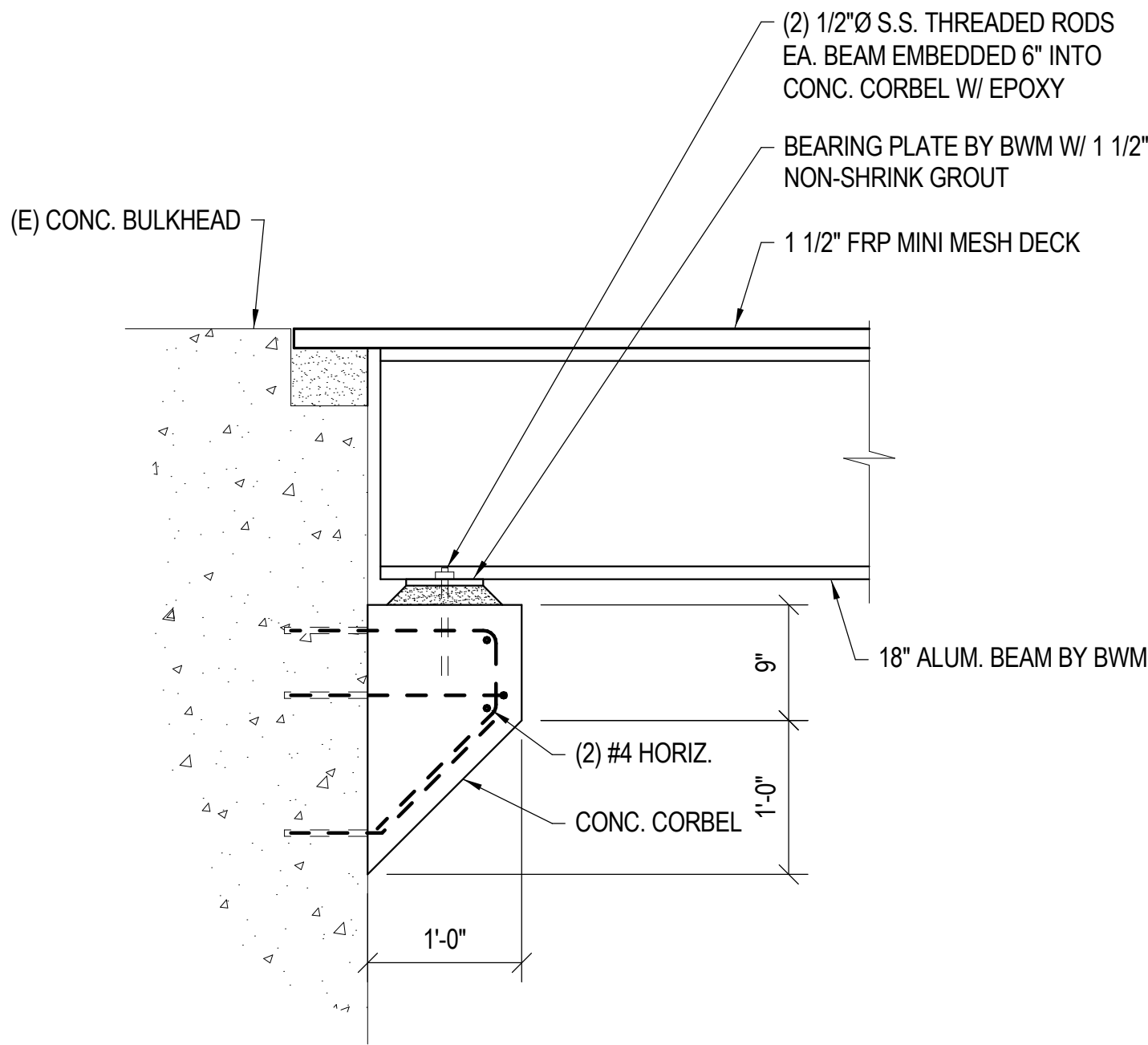
2 PILE CAP (PC-1) DETAILS

1" = 1'-0"



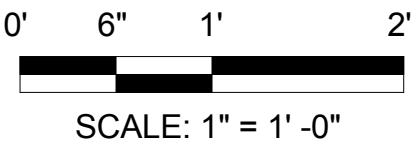
3 SECTION - PILE CAP

1" = 1'-0"



4 CONC CORBEL DETAIL

1" = 1'-0"

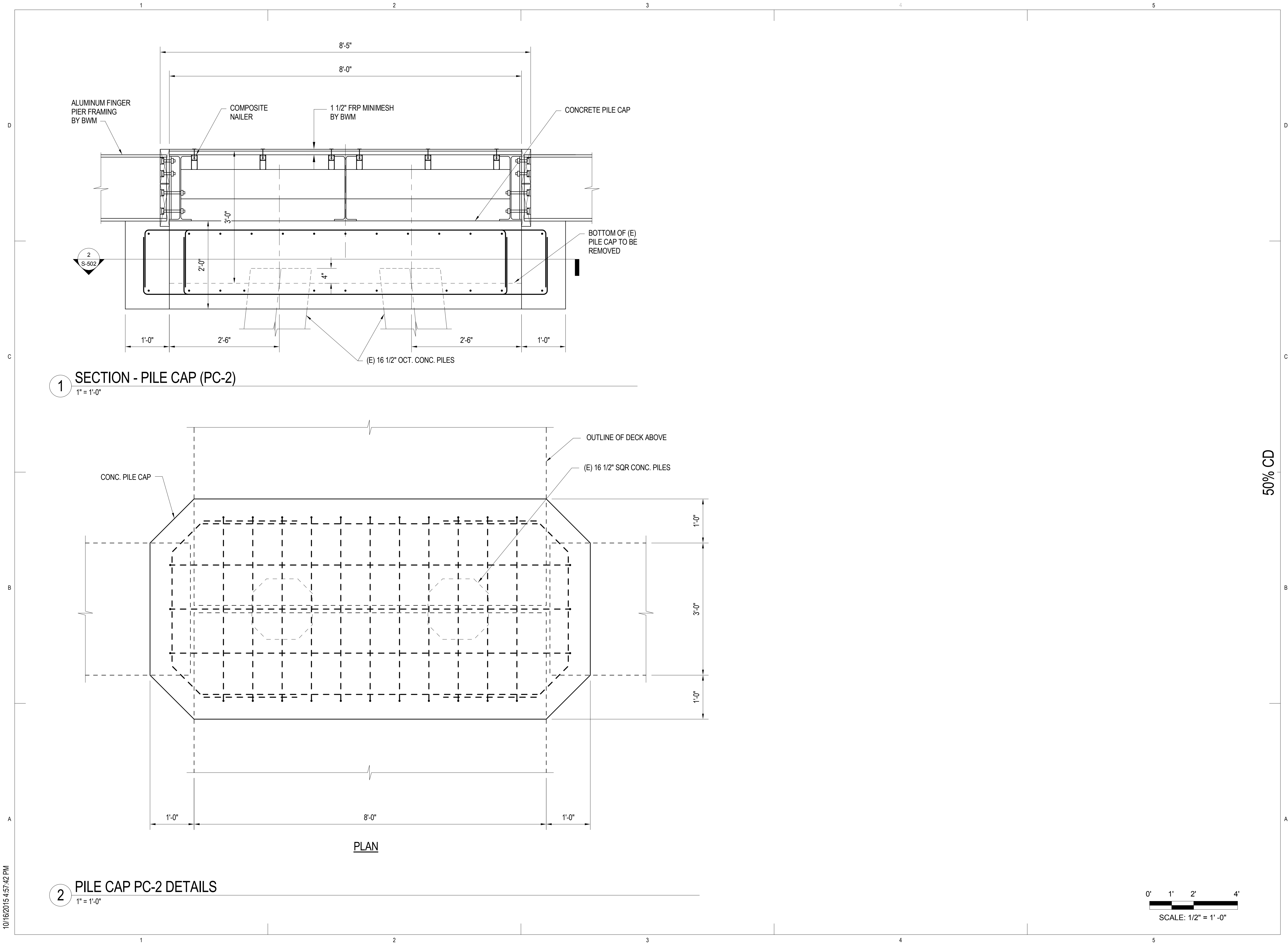


SCALE: 1" = 1'-0"

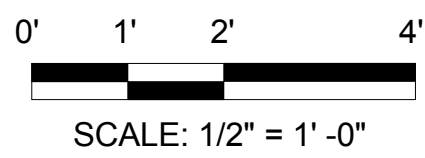
REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO.	150172
DRAWN BY:	AH
DESIGNED BY:	PB
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DATE	10/16/15

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2 PILE CAP PC-2 DETAILS
1" = 1'-0"



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HARBOR IMPROVEMENTS
HONOLULU HAWAII

STRUCTURAL DETAILS

REVISIONS		DRAWING TITLE				
NO.	DATE	DESCRIPTION	BY			
PROJECT NO.			150172			
DRAWN BY:			AH			
DESIGNED BY:			PB			
CHECKED BY:			BM			
REVIEWED BY:			-			
DATE			10/16/15			



KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU HAWAII

STRUCTURAL DETAILS

S-503



50% CD

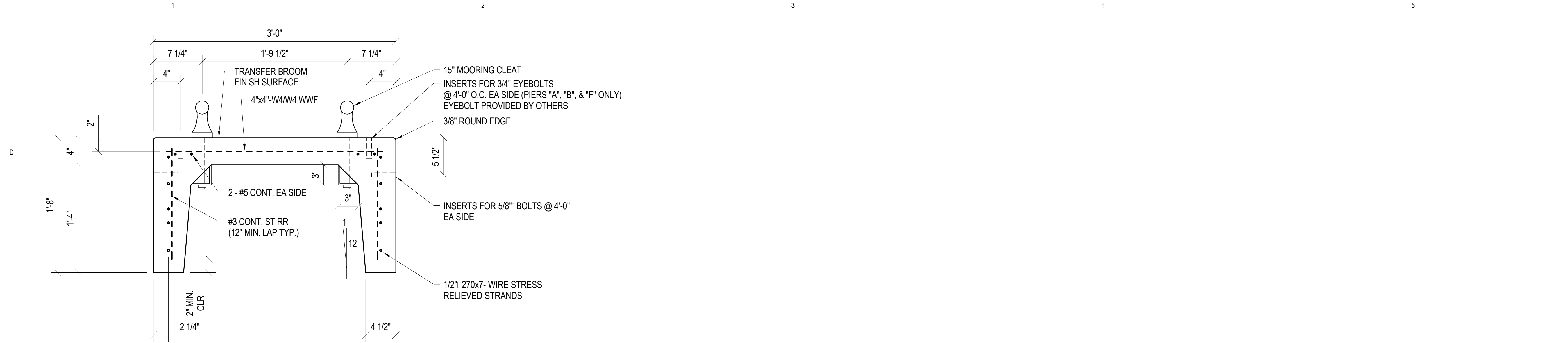
KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU HAWAII

STRUCTURAL DETAILS

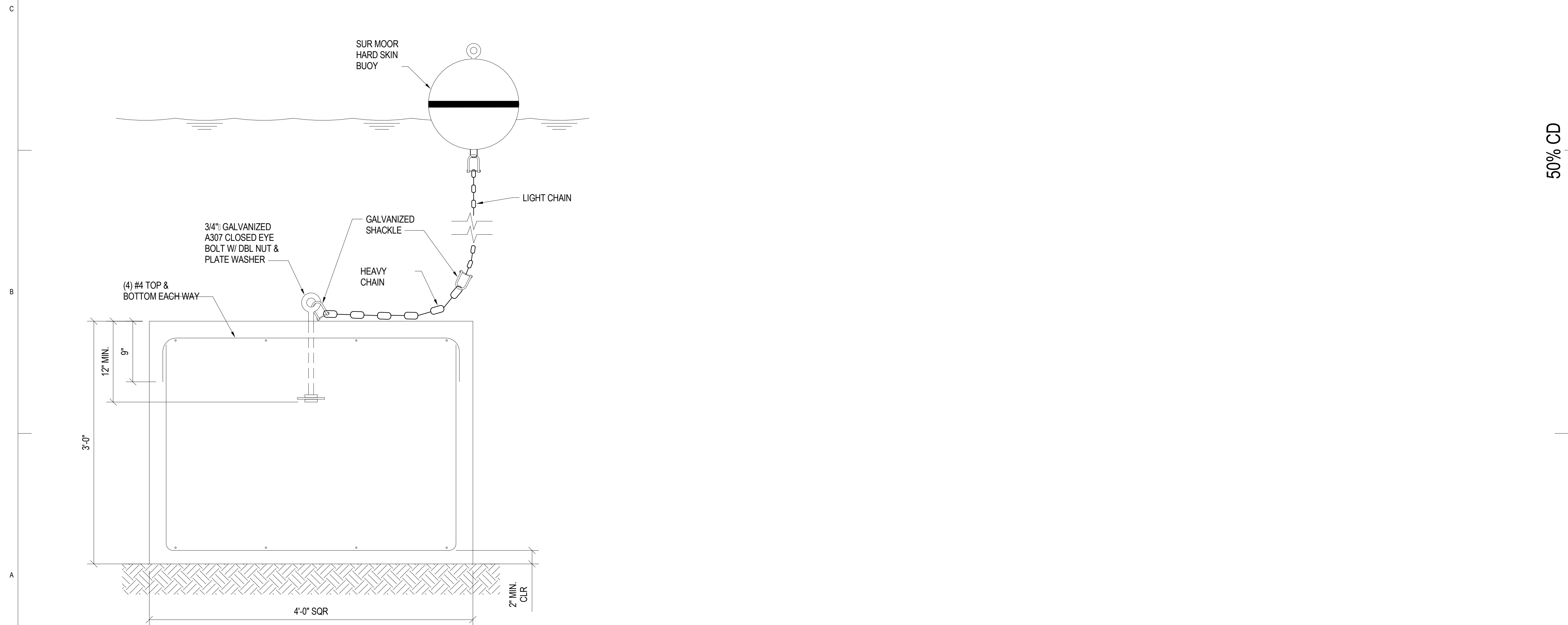
PROJECT NO.	150172
DRAWN BY:	AH
DESIGNED BY:	PB
CHECKED BY:	BM
REVIEWED BY:	-
DATE	10/16/15

S-504

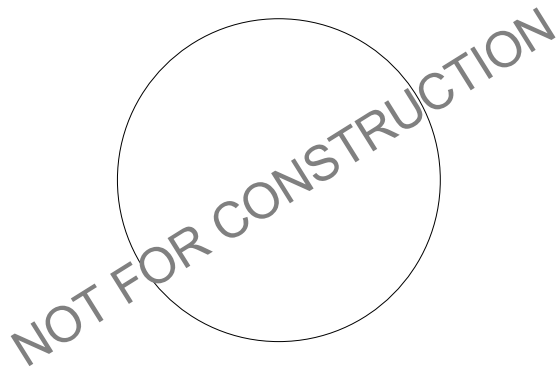
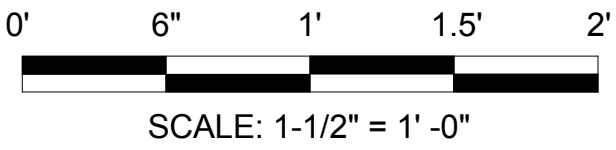




1 SECTION - TYP. PRESTRESSED PRECAST CONCRETE
1 1/2" = 1'-0"



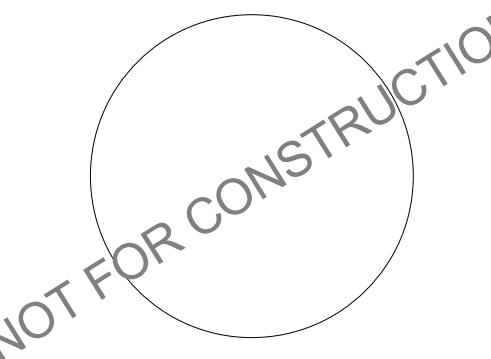
2 MOORING SYSTEM
1 1/2" = 1'-0"



KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU HAWAII

STRUCTURAL DETAILS

REVISIONS		DRAWING TITLE				
NO.	DATE	DESCRIPTION	BY			
PROJECT NO.			150172			
DRAWN BY:			AH			
DESIGNED BY:			PB			
CHECKED BY:			BM			
REVIEWED BY:			-			
DATE			10/16/15			



KEWALO BASIN HARBOR IMPROVEMENTS HONOLULU HAWAII				CRACK REPAIR DETAILS	
DRAWING TITLE					
REVISIONS		NO.	DATE	DESCRIPTION	BY



S-507

10/16/2015 6:06:38 PM

GENERAL NOTES

1.

ALL WORK SHOWN ON THESE DRAWINGS IS NEW UNLESS OTHERWISE NOTED.
2.

EXISTING CONDITIONS AND DIMENSIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE. BIDDERS SHALL VISIT THE PREMISES AND THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL DETAILS OF WORK AND WORKING CONDITIONS BEFORE SUBMITTING THEIR BID. REASONABLE MODIFICATIONS IN LOCATION AND ARRANGEMENTS TO SUIT JOB CONDITION SHALL NOT CONSTITUTE BASIS FOR REQUESTING OF ADDITIONAL FUNDS FROM THE OWNER.
3.

PRIOR TO ORDERING MATERIALS AND PROCURING EQUIPMENT, CONTRACTOR SHALL BE REQUIRED TO VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO EQUIPMENT, MATERIALS, SIZES, DIMENSIONS, INVERTS, AND VOLTAGES THAT AFFECT HIS WORK. SUBMIT A LETTER TO THE ENGINEER CONFIRMING THAT THIS WAS DONE. IF WRITTEN CONFIRMATION IS NOT RECEIVED BY THE ENGINEER, SHOP DRAWINGS AND OTHER SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. SHOW ALL DISCREPANCIES ON SHOP DRAWINGS AND NOTIFY THE ENGINEER IN WRITING OF SUCH DISCREPANCIES PRIOR TO PROCUREMENT.
4.

ALL UTILITIES AND APPURTENANCES SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION, AND IF DAMAGED, SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO OWNER.
5.

THIS CONTRACT REQUIRES THE PLUMBING AND MECHANICAL SUBCONTRACTORS TO CAREFULLY COORDINATE THEIR WORK WITH EACH OTHER. THE GENERAL CONTRACTOR AND OTHER TRADES. PRIORITY SHALL BE GIVEN IN THE FOLLOWING ORDER.

A.

GRAVITY FLOW; SEWER, STORM DRAIN, DOWNSPOUT AND CONDENSATE DRAIN PIPING.

B.

EQUIPMENT AND DUCTWORK.

C.

FORCED AND PRESSURE PIPING SUCH AS WATER.
6.

CONTRACTOR SHALL PROVIDE DIELECTRIC UNIONS AT CONNECTION POINT FOR ALL DISSIMILAR METALS.
7.

NO CUTTING OR DRILLING OF ANY STRUCTURAL MEMBERS WILL BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.
8.

INSTALL ALL PIPING AS HIGH AS POSSIBLE UNDER DECKS.
9.












SUPPORT HORIZONTAL LINES OF COPPER TUBING WITH HANGERS SPACE NOT MORE THAN 6 FEET, CENTER TO CENTER FOR ALL PIPE SIZES. ALL PIPES SHALL BE SUPPORTED AT ELBOWS, BRANCHES AND RISERS.
10.

SUPPORT HORIZONTAL LINES OF PVC TUBING WITH HANGERS SPACED NOT MORE THAN 4 FEET, CENTER TO CENTER FOR ALL PIPE SIZES. ALL PIPES SHALL BE SUPPORTED AT ELBOWS, BRANCHES AND RISERS.

BWS FLOW REQUIREMENTS


PREMISE ID#: _____ - _____				
METER NUMBER(M/N): _____ - _____				
	DESCRIPTION	FU	GPM	GPD
A.	PROPOSED DOMESTIC: [ALL FIXTURES BEING INSTALLED]	_____ - _____	_____ - _____	_____ - _____
B.	PROPOSED IRRIGATION:	_____ - _____	_____ - _____	_____ - _____
C.	OTHER	_____ - _____	_____ - _____	_____ - _____
D.	TOTAL PROPOSED: [DO NOT INCLUDE IRRIGATION GPM IF LESS THAN DOMESTIC AND DONE DURING OFF-PEAK HOURS]	_____ - _____	_____ - _____	_____ - _____
E.	DEMOLITION: [ALL FIXTURES BEING REMOVED]	_____ - _____	_____ - _____	_____ - _____
DEMO PERMIT# DATE: - - - - - -				
F.	NET CHANGE: [SUBTRACT "E" FROM "D" ABOVE]	_____ - _____	_____ - _____	_____ - _____
G.	EXISTING TO REMAIN: [OTHER FIXTURES SERVICED BY THIS METER BUT NOT AFFECTED BY PROJECT]	_____ - _____	_____ - _____	_____ - _____
H.	<u>GRAND TOTAL</u> [ADD "F" AND "G" ABOVE]	_____ - _____	_____ - _____	_____ - _____
<u>NOTES:</u>				
1.	AIR CONDITIONING WORK WILL NOT AFFECT WATER DEMAND.			
2.	THE EXISTING WATER METER DOES NOT SERVE ANY EXISTING IRRIGATION.			

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	BV	BALL VALVE
	FEC	CABINET WITH FIRE EXTINGUISHER
	CONT	CONTINUATION
		DRY STANDPIPE
	DSP	DRY STANDPIPE CONNECTION WITH 2-1/2" CONNECTION
	DI	DUCTILE IRON
		END CAP
	(E)	EXISTING
	FDC	FIRE DEPARTMENT CONNECTION WITH 2-1/2" CONNECTION
		FUEL OIL OR DIESEL
		GASOLINE
	HB	HOSE BIB WITH VACUUM BREAKER
	POC	POINT OF CONNECTION
		SANITARY
	VB	VACUUM BREAKER

APPLICABLE CODES & STANDARDS

- BUILDING CODE OF THE CITY AND COUNTY OF HONOLULU (INTERNATIONAL BUILDING CODE 2006 AS AMENDED)
- PLUMBING CODE OF THE CITY AND COUNTY OF HONOLULU (UNIFORM PLUMBING CODE 2006 AS AMENDED)
- NFPA 1, FIRE CODE, 2006 EDITION (AS AMENDED.)
- BUILDING ENERGY CONSERVATION CODE OF THE CITY AND COUNTY OF HONOLULU (INTERNATIONAL ENERGY CONSERVATION CODE 2006 (AS AMENDED).
- NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS, 2002 EDITION
- NFPA 14, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS, 2003 EDITION
- NFPA 303, FIRE PROTECTION STANDARD FOR MARINAS AND BOATYARDS, 2006 EDITION



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HARBOR IMPROVEMENTS
HONOLULU HAWAII

GENERAL NOTES, MECHANICAL LEGEND, AND BWS
FLOW REQUIREMENTS

REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO.

150172

DRAWN BY:

MC/EEO

DESIGNED BY:

CS

CHECKED BY:

GK

REVIEWED BY:

BL

DATE

10/16/15

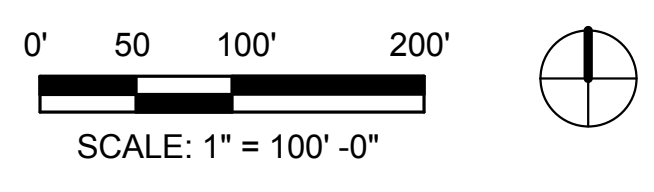
M-001

10/16/2015 6:06:39 PM

A
B
C
D



1 OVERALL MECHANICAL SITE PLAN
1" = 100'-0"



NOT FOR CONSTRUCTION

KEWALO BASIN HARBOR IMPROVEMENTS HONOLULU, HAWAII		OVERALL MECHANICAL SITE PLAN	
DRAWING TITLE			
PROJECT NO.	150172		
DRAWN BY:	MC/EEO		
DESIGNED BY:	CS		
CHECKED BY:	GK		
REVIEWED BY:	BL		
DATE	10/16/15		

1. DEMOLISH PLUMBING FROM ALL HATCHED AREAS.

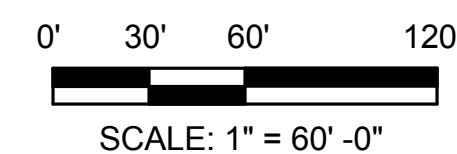
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HARBOR IMPROVEMENTS
HONOLULU HAWAII

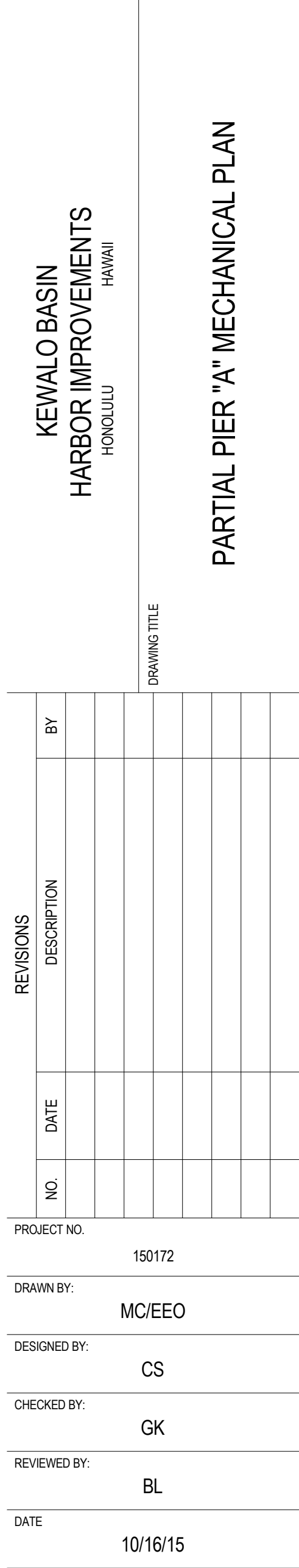
OVERALL MECHANICAL DEMO

DRAWING TITLE

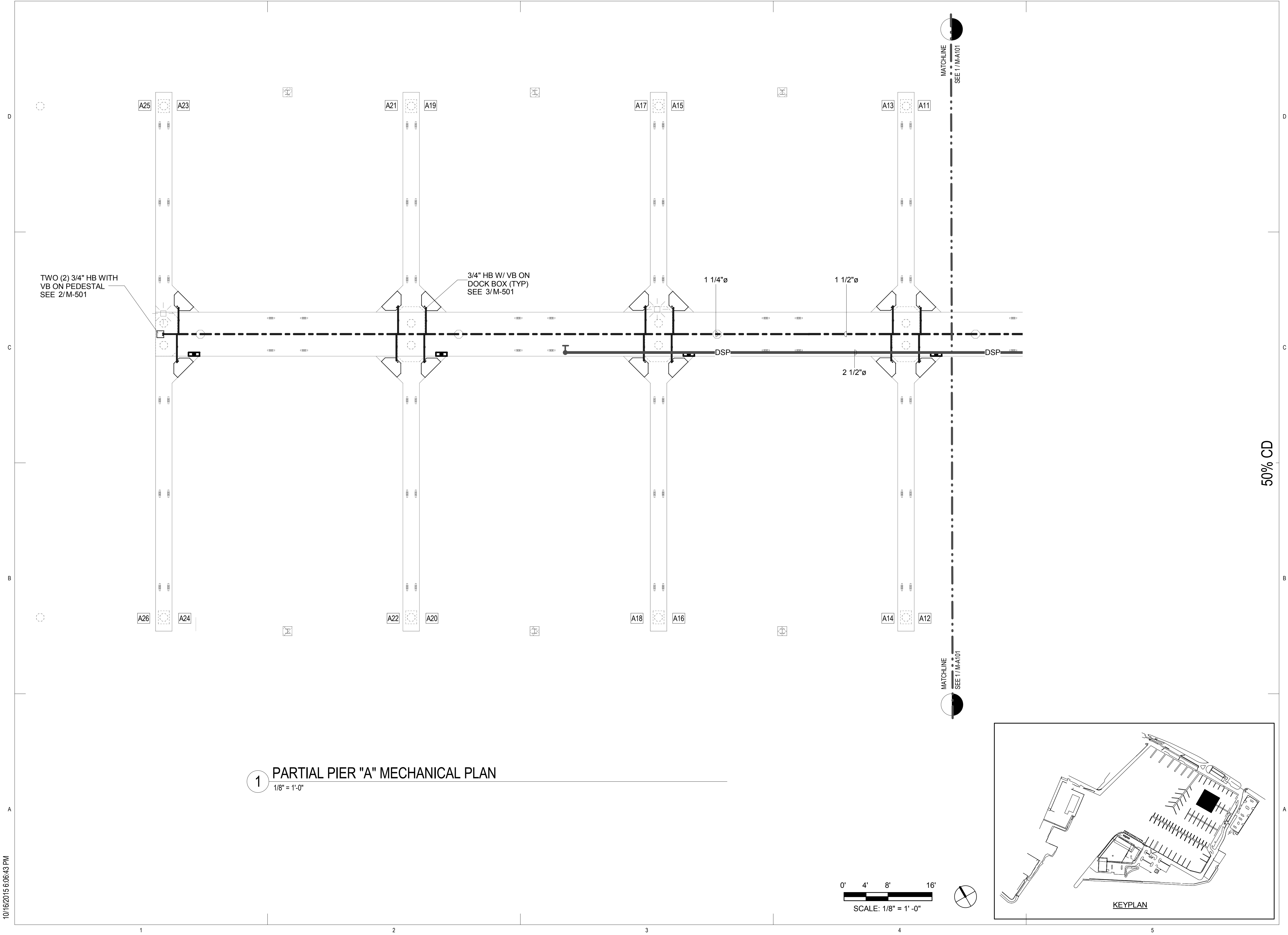
DATE 10/16/15

1 OVERALL MECHANICAL DEMO

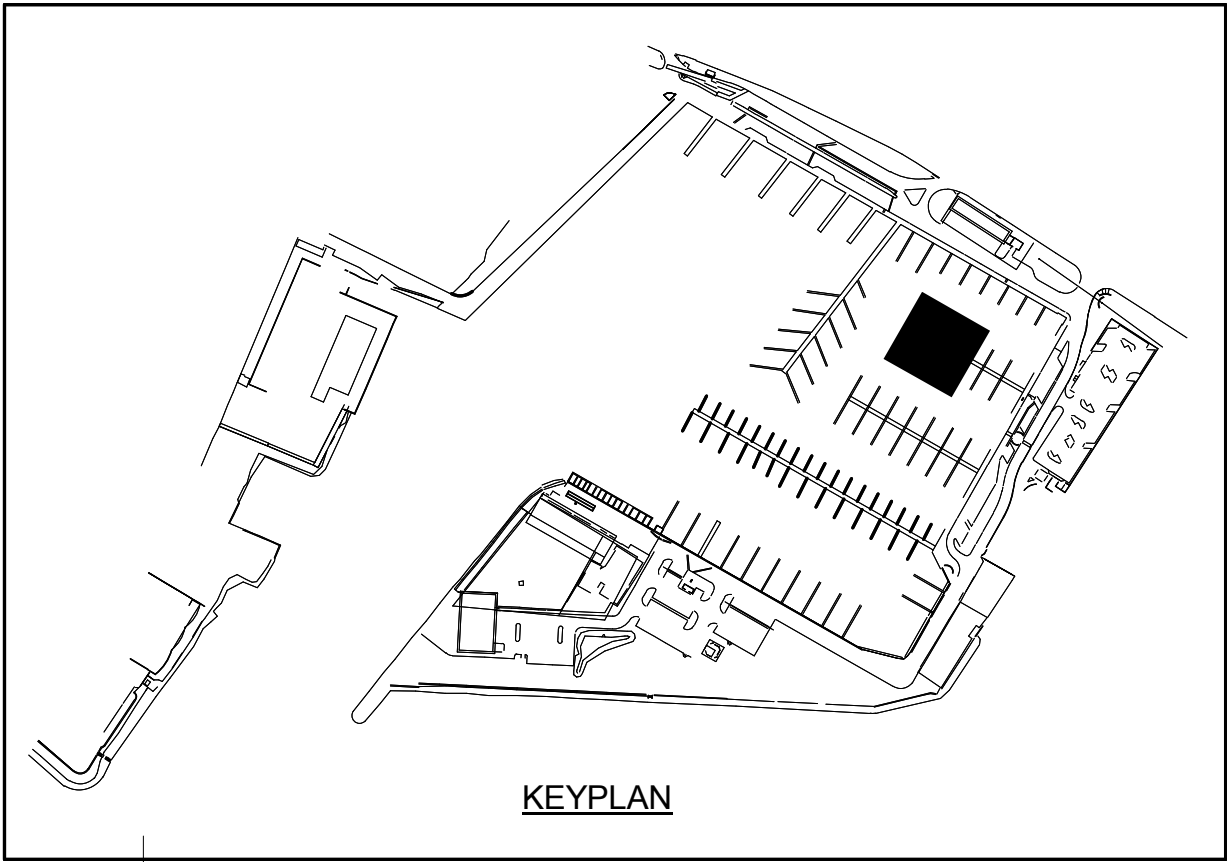
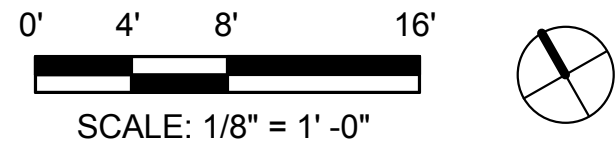




10/16/2015 6:06:43 PM



1 PARTIAL PIER "A" MECHANICAL PLAN
1/8" = 1'-0"



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HONOLULU, HAWAII

DRAWING TITLE

PARTIAL PIER "A" MECHANICAL PLAN

NO.	DATE	DESCRIPTION	BY

PROJECT NO. 150172

DRAWN BY: MC/EEO

DESIGNED BY: CS

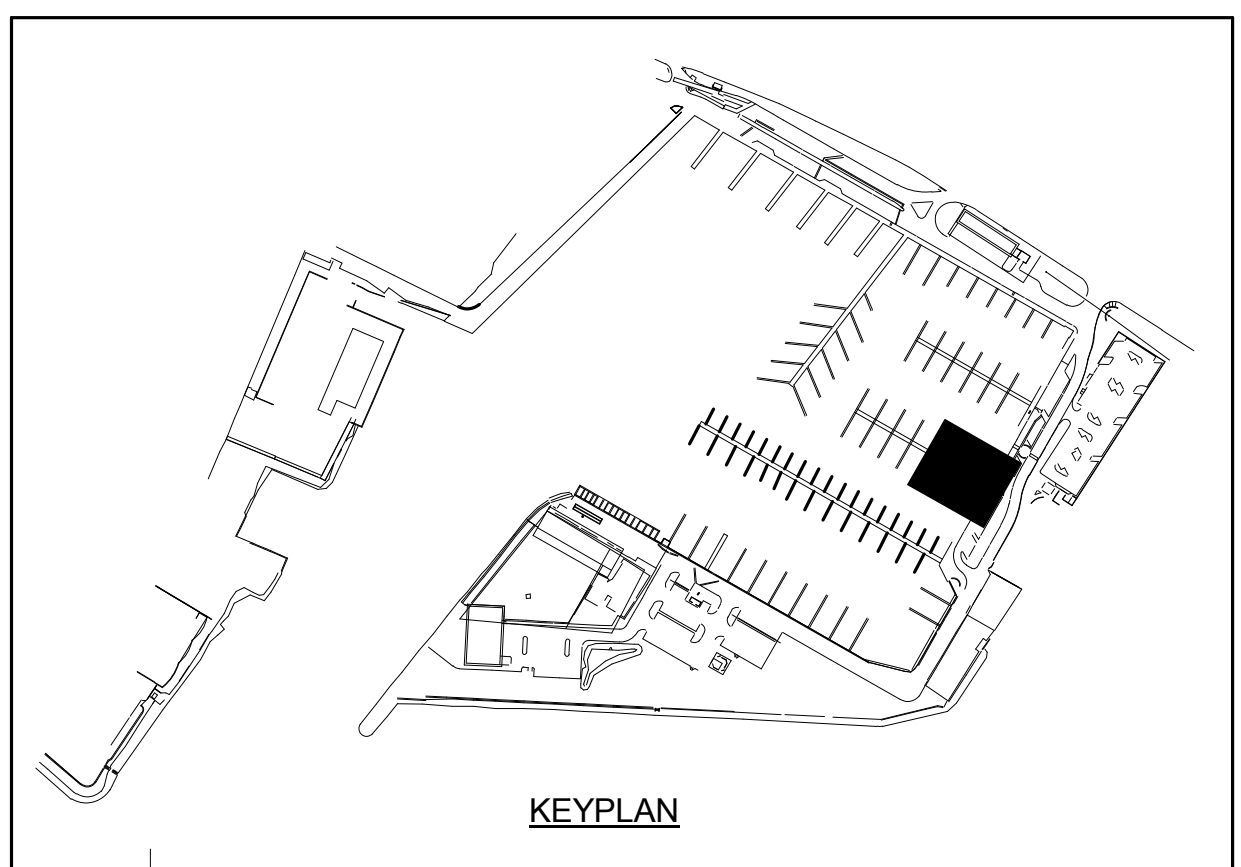
CHECKED BY: GK

REVIEWED BY: BL

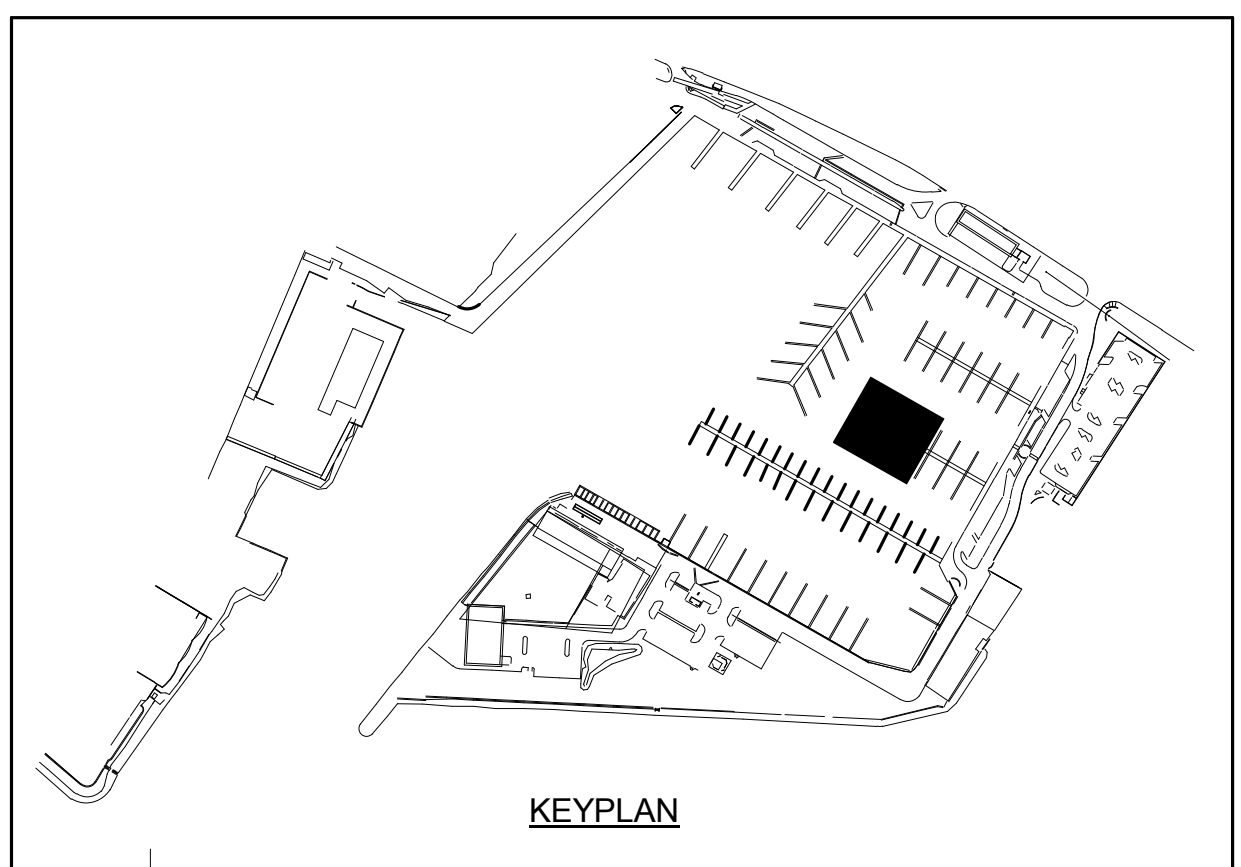
DATE 10/16/15

M-A102

DRAWING TITLE

M-B101

DRAWING TITLE

M-B102


0' 4' 8' 16'

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

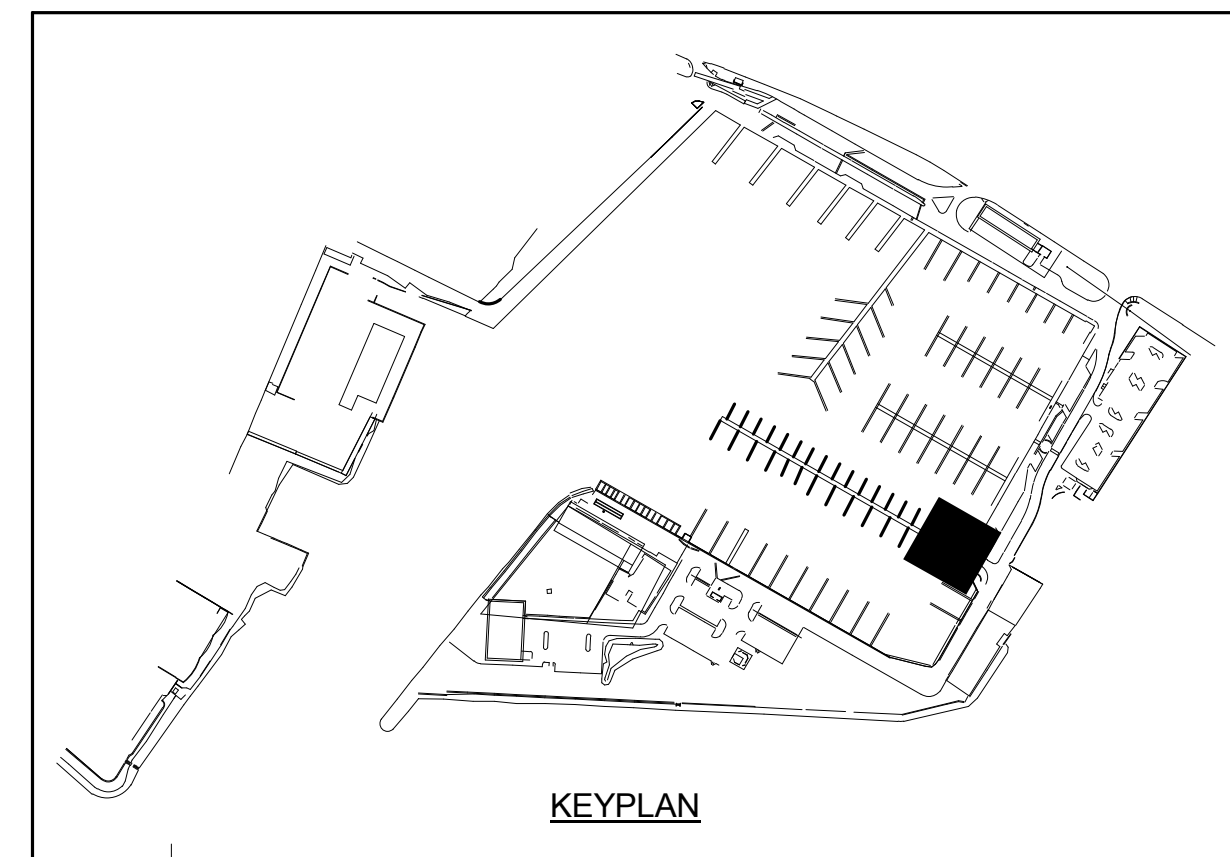
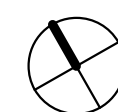
10/16/2015 6:06:45 PM



0' 4' 8' 16'

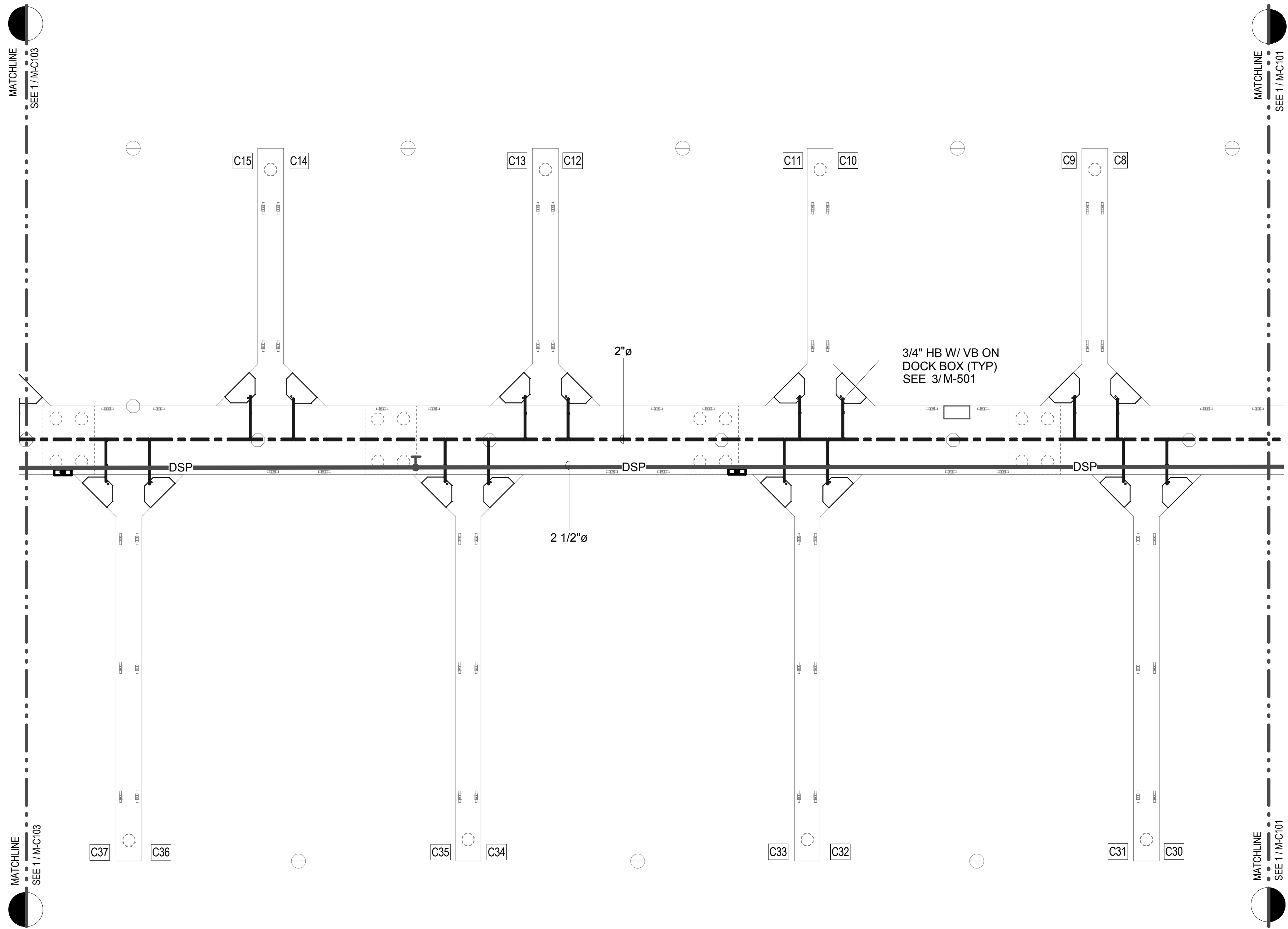


SCALE: 1/8" = 1'-0"

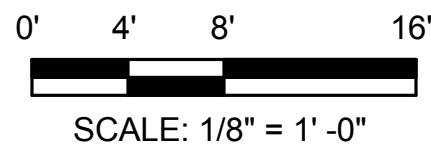
M-C101

10/16/2015 6:06:48 PM

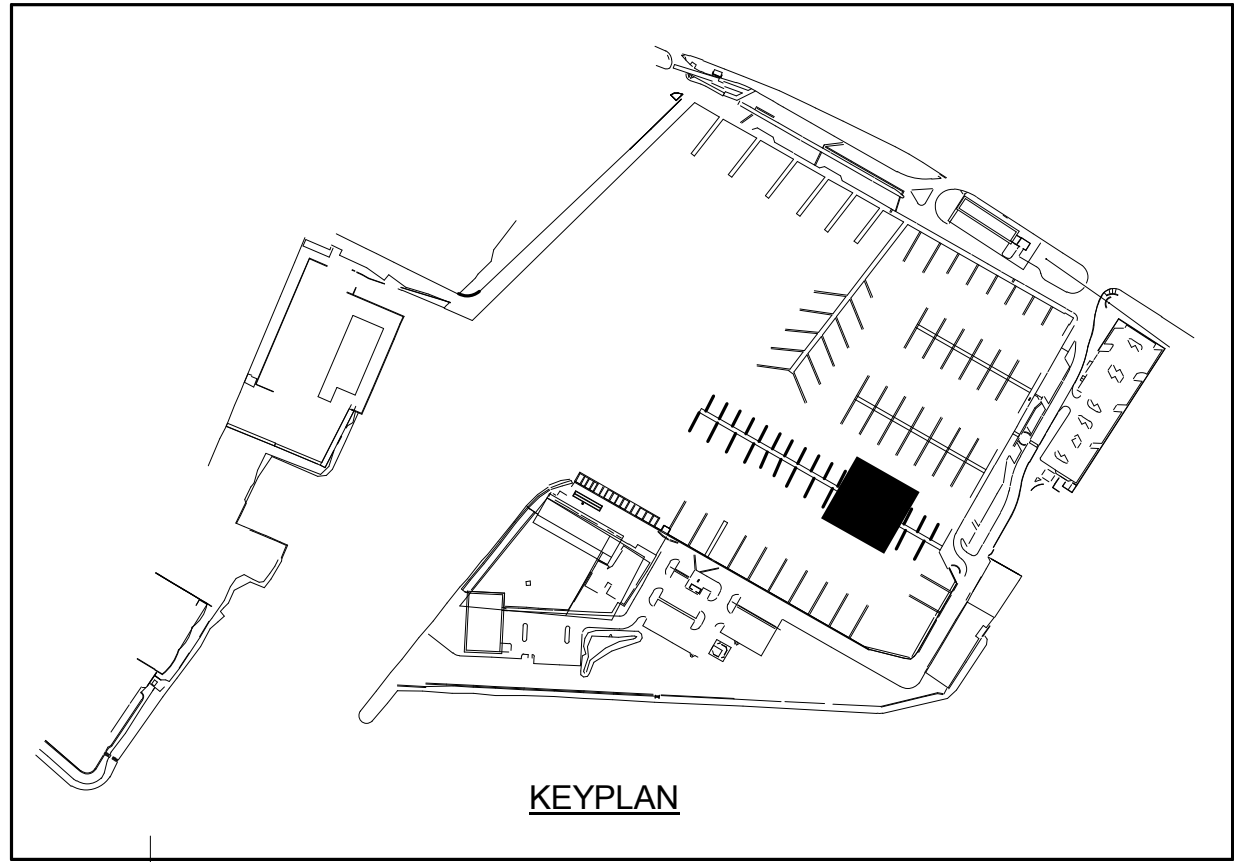
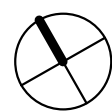
A
B
C
D



1 PARTIAL PIER "C" MECHANICAL PLAN
1/8" = 1'-0"



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



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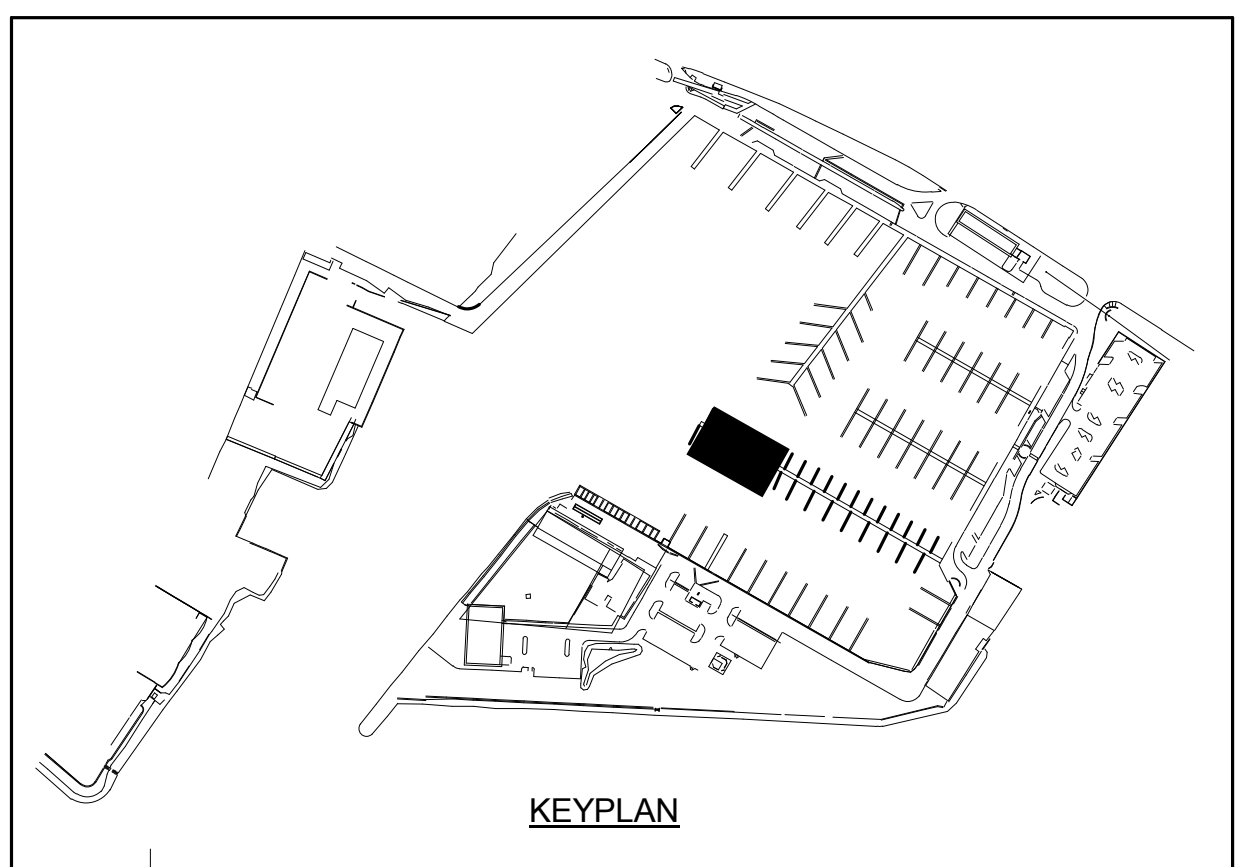
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PARTIAL PIER "C" MECHANICAL PLAN

REVISIONS		DRAWING TITLE				
NO.	DATE	DESCRIPTION	BY			
PROJECT NO.			150172			
DRAWN BY:			MC/EEO			
DESIGNED BY:			CS			
CHECKED BY:			GK			
REVIEWED BY:			BL			
DATE			10/16/15			

M-C102

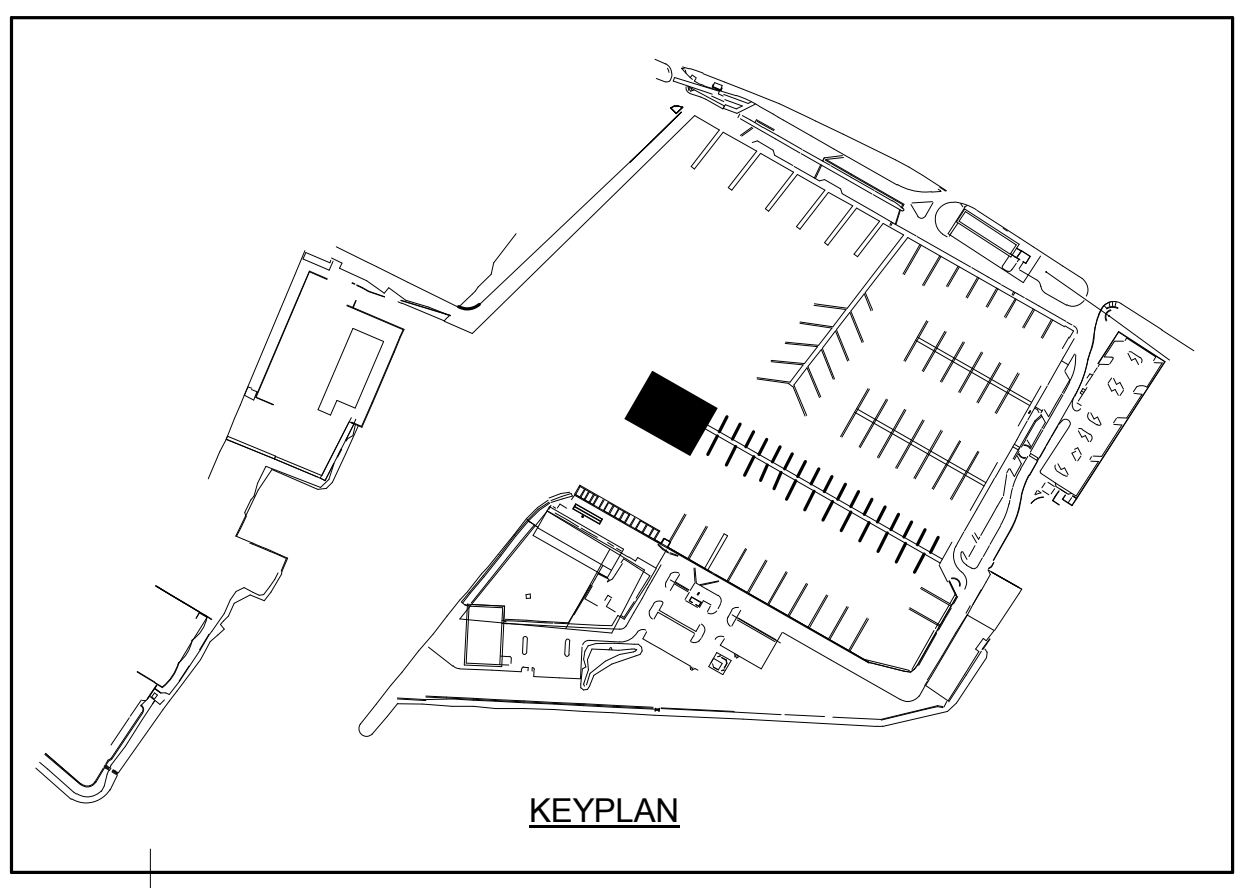
DRAWING TITLE

M-C104

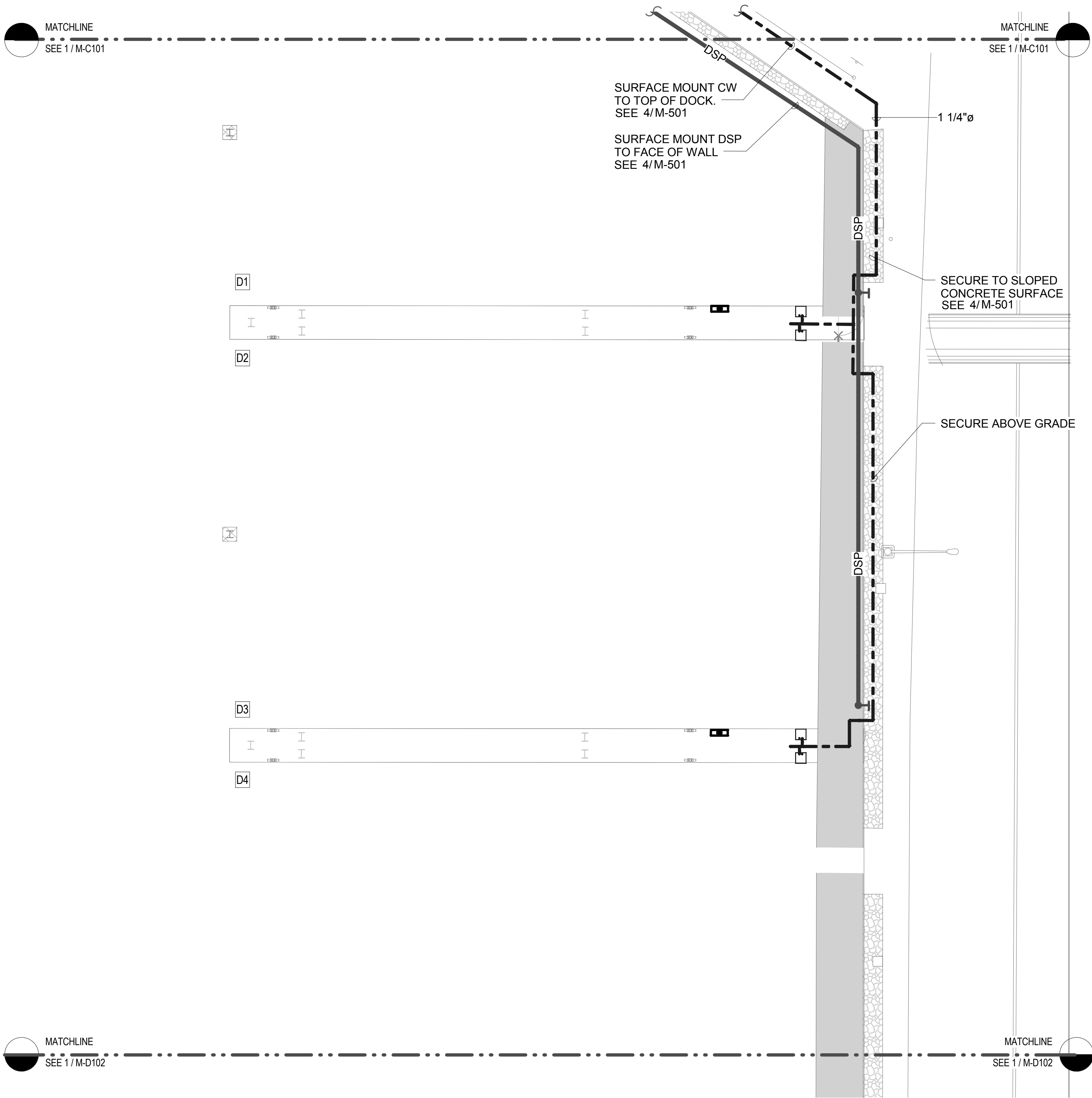
DRAWING TITLE

PROJECT NO.	150172
DRAWN BY:	MC/EOO
DESIGNED BY:	CS
CHECKED BY:	GK
REVIEWED BY:	BL
DATE	10/16/15

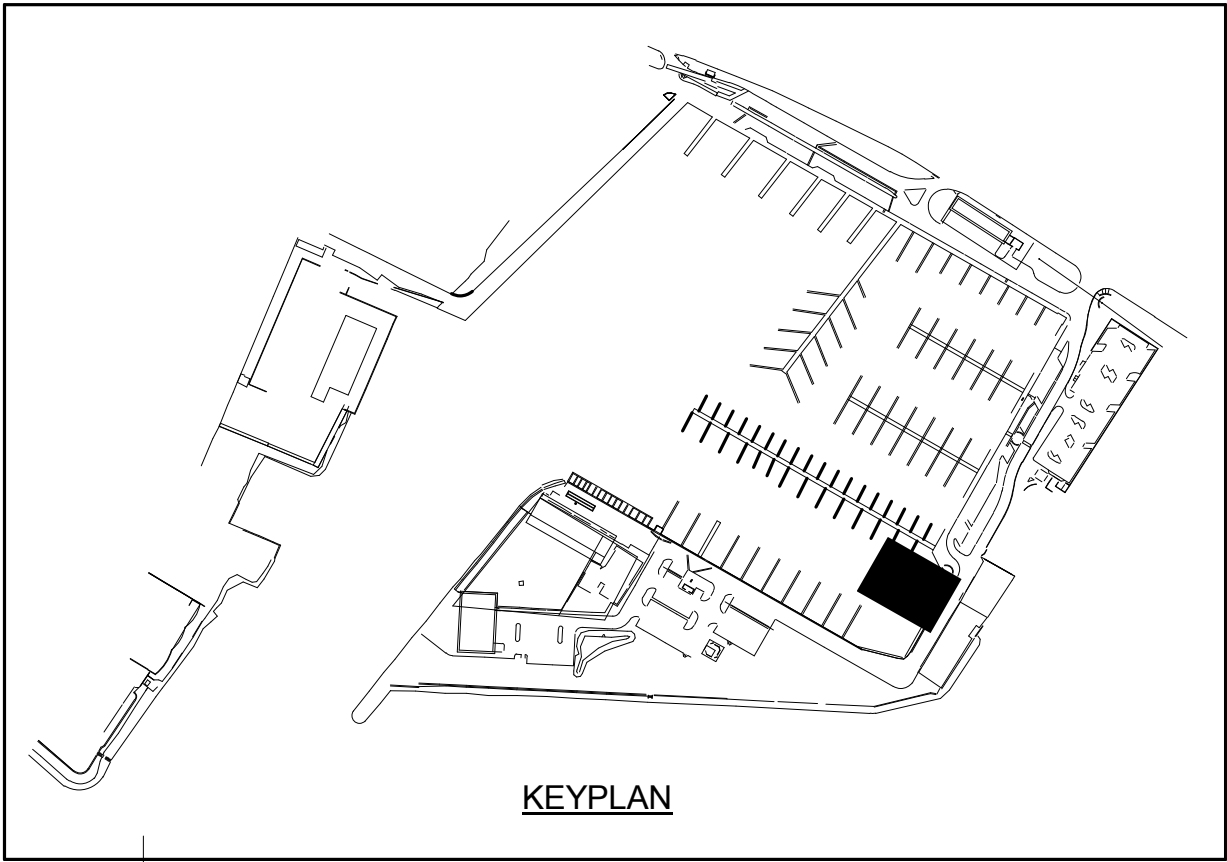
10/16/2015 6:06:51 PM



10/16/2015 6:06:52 PM



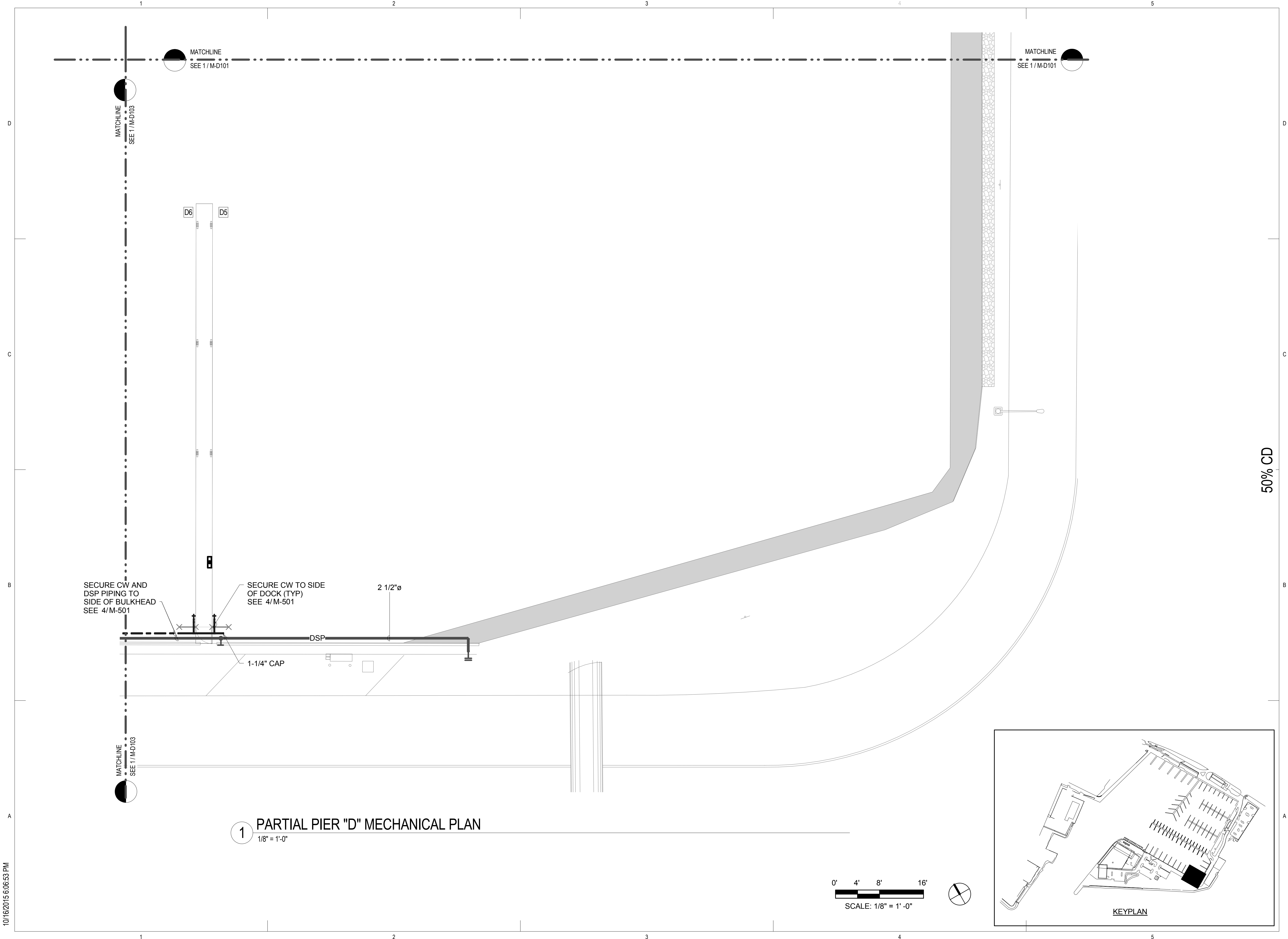
1 PARTIAL PIER "D" MECHANICAL PLAN
1/8" = 1'-0"



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KEWALO BASIN HARBOR IMPROVEMENTS HONOLULU		PARTIAL PIER "D" MECHANICAL PLAN	
DRAWING TITLE			
REVISIONS	DESCRIPTION	BY	DATE
NO.			
PROJECT NO.		150172	
DRAWN BY:		MC/EEO	
DESIGNED BY:		CS	
CHECKED BY:		GK	
REVIEWED BY:		BL	
DATE		10/16/15	
		M-D101	

10/16/2015 6:06:53 PM



1 PARTIAL PIER "D" MECHANICAL PLAN
1/8" = 1'-0"

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PARTIAL PIER "D" MECHANICAL PLAN

REVISIONS		BY	DATE	NO.
DESCRIPTION				

PROJECT NO. 150172

DRAWN BY: MC/EEO

DESIGNED BY: CS

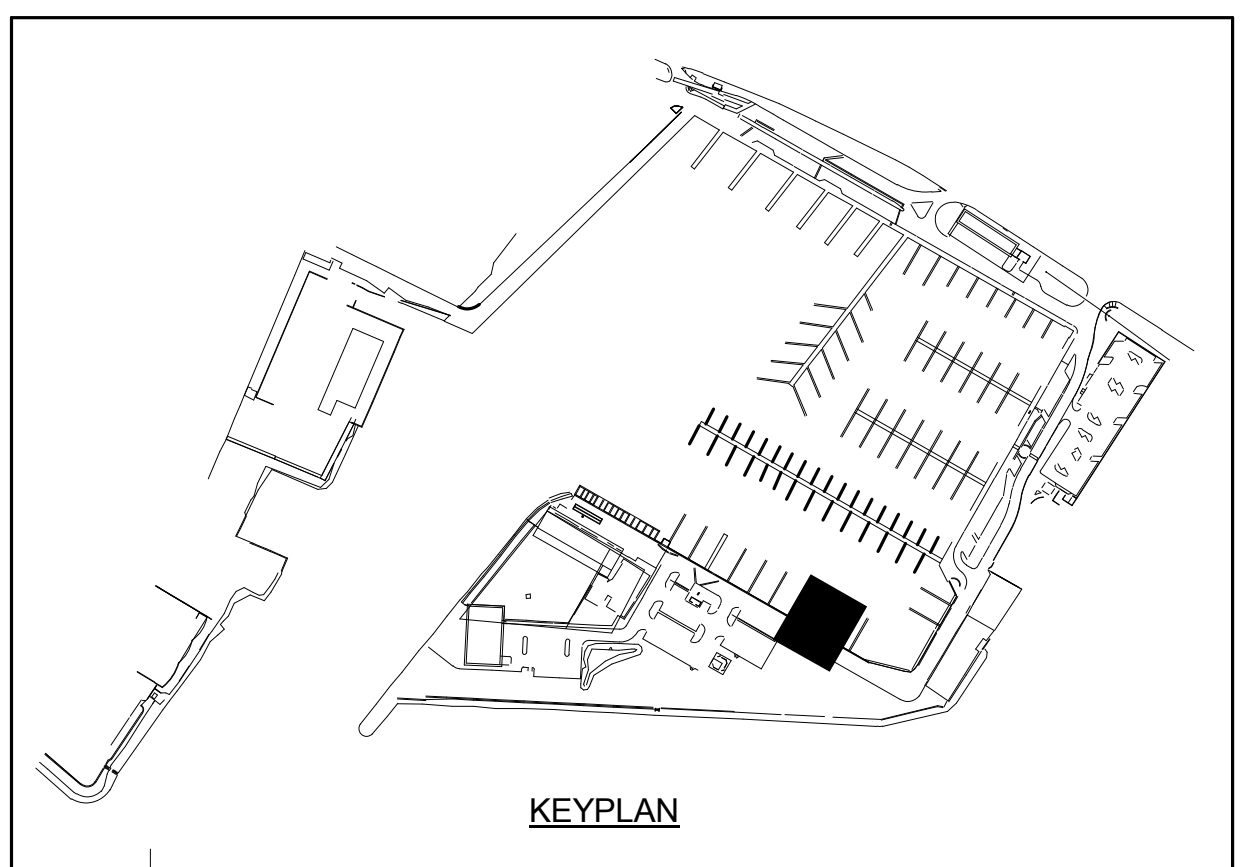
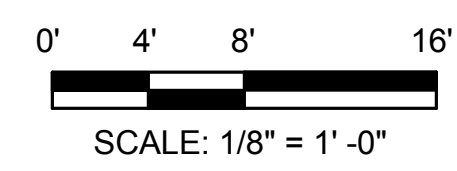
CHECKED BY: GK

REVIEWED BY: BL

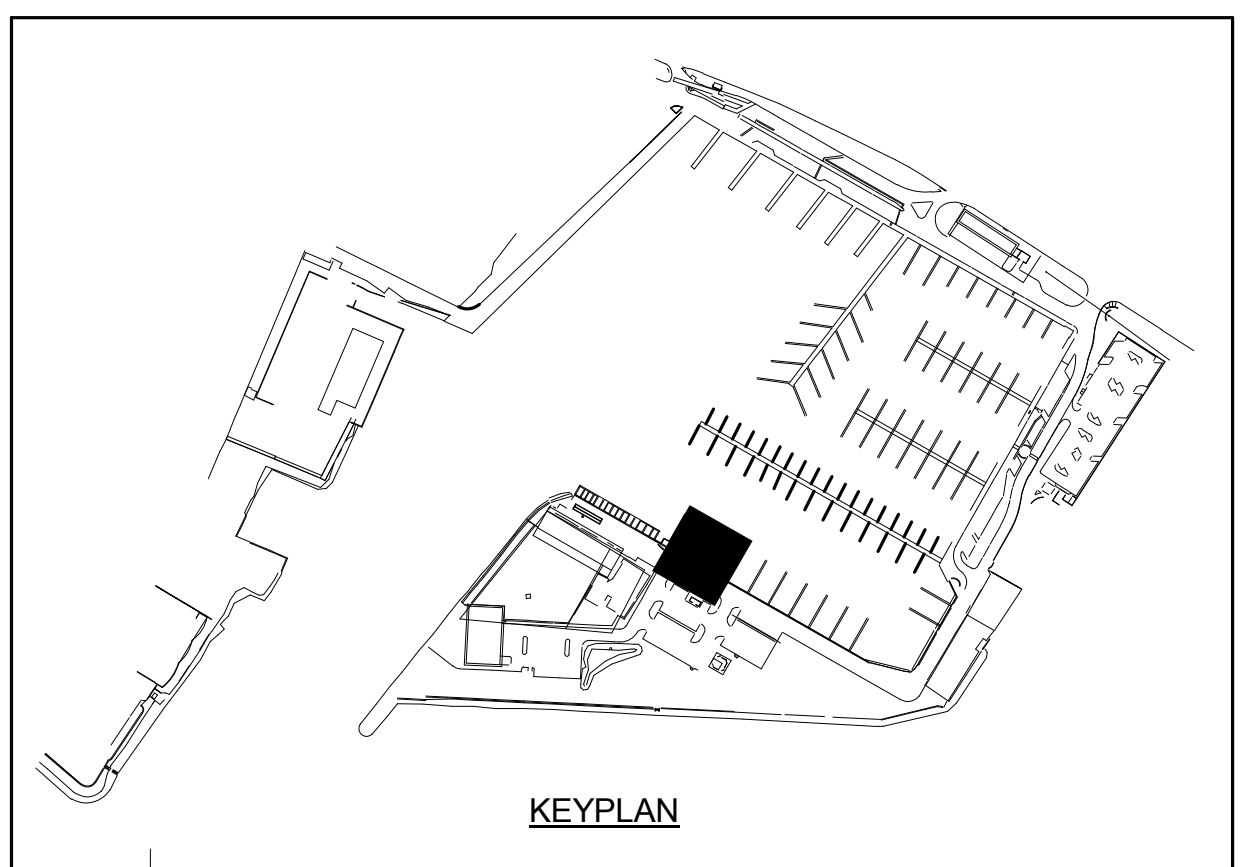
DATE 10/16/15

M-D102


DRAWING TITLE

M-D103

DRAWING TITLE

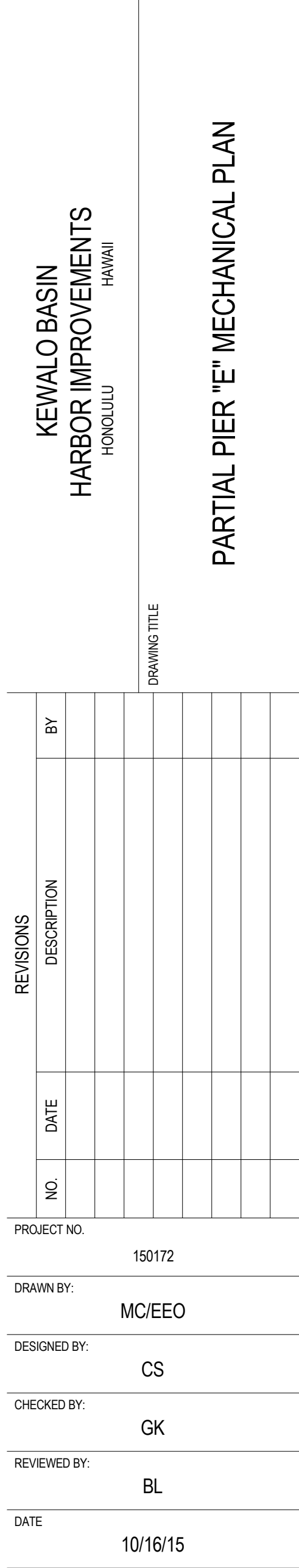
M-D105

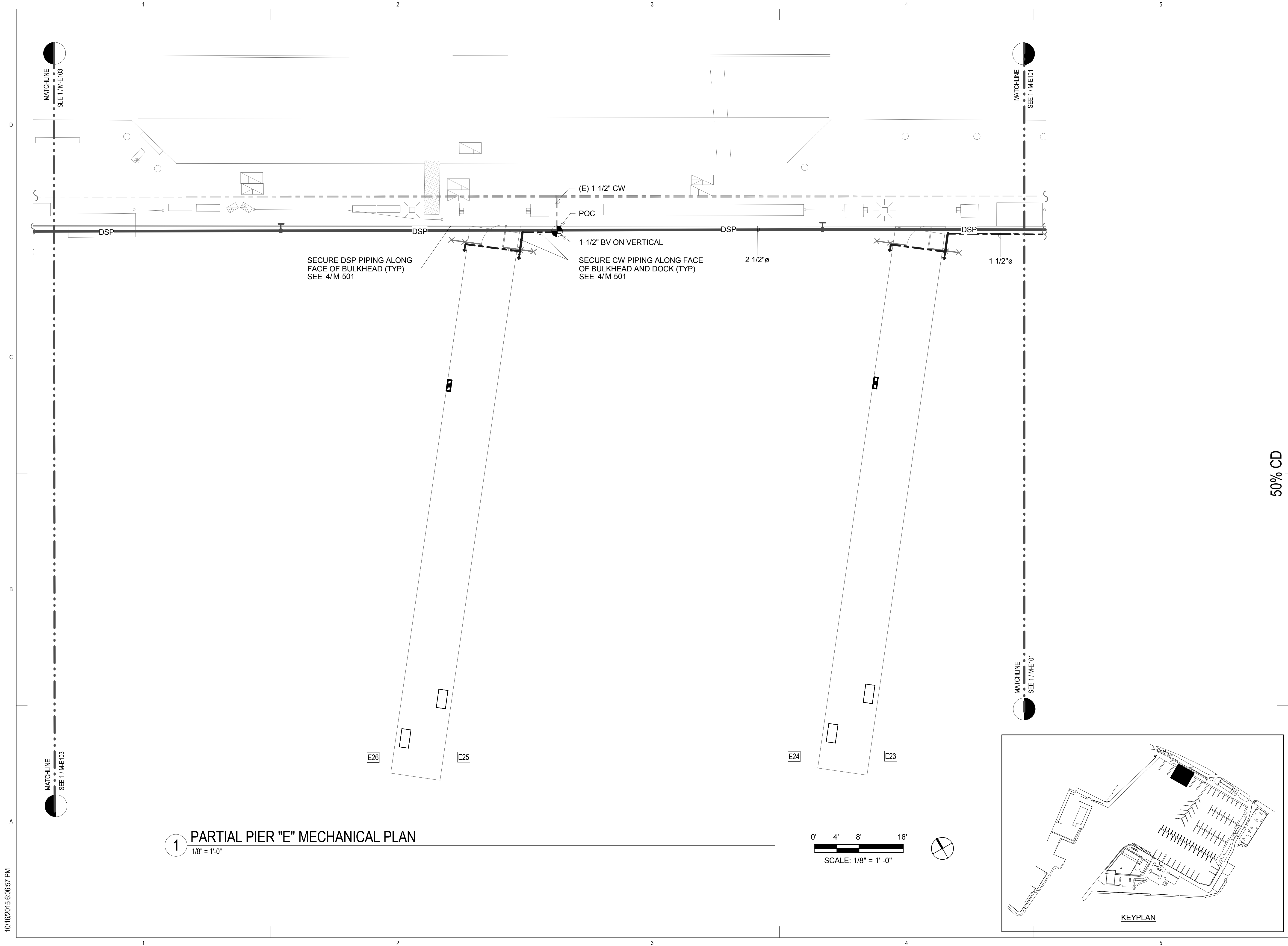
0' 4' 8' 16'



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

10/16/2015 6:06:56 PM





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HONOLULU HAWAII

PARTIAL PIER "E" MECHANICAL PLAN

DRAWING TITLE

REVISIONS			DESCRIPTION	BY
NO.	DATE			

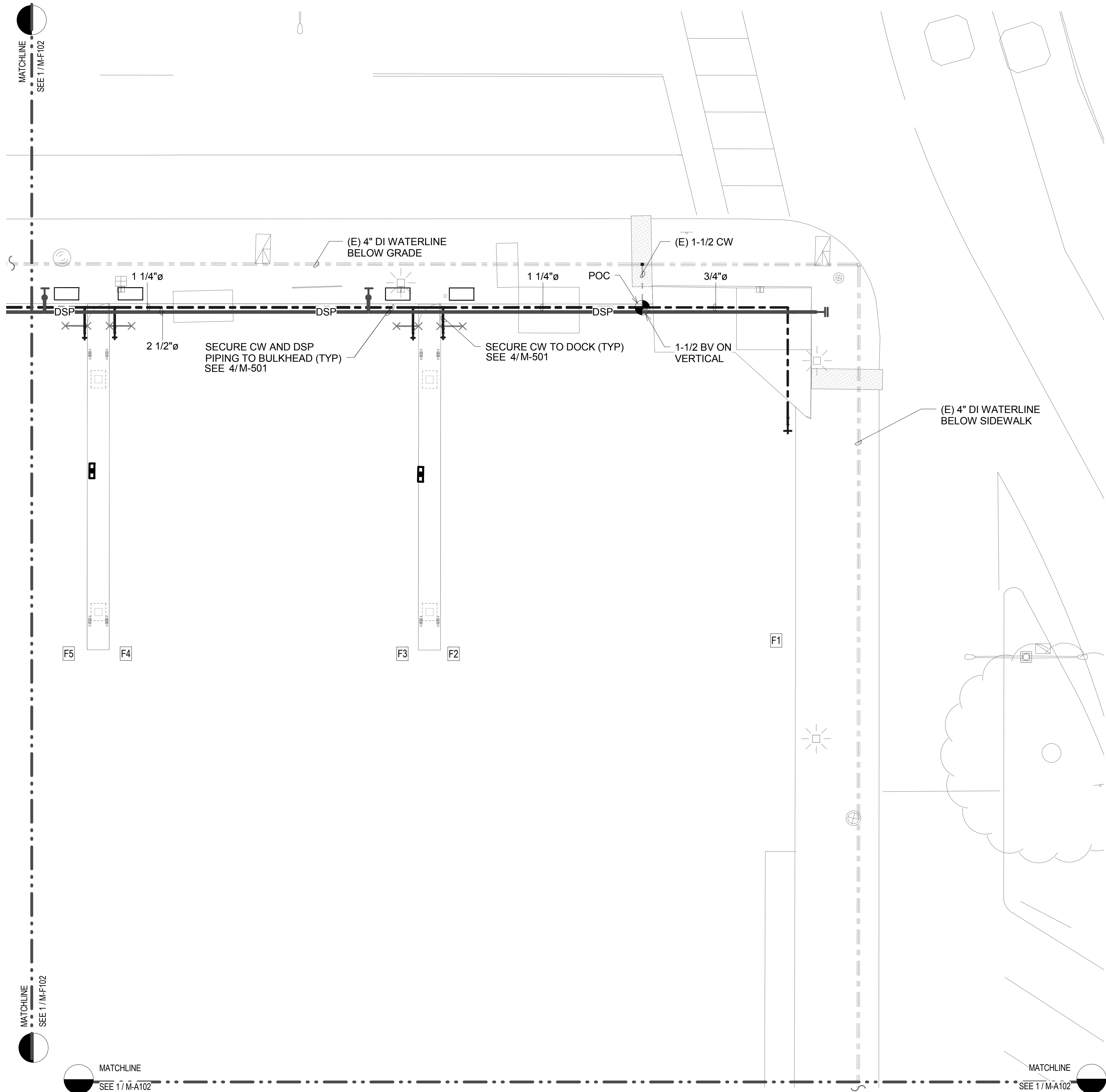
PROJECT NO.	150172
DRAWN BY:	MC/EEO
DESIGNED BY:	CS
CHECKED BY:	GK
REVIEWED BY:	BL
DATE	10/16/15

M-E102

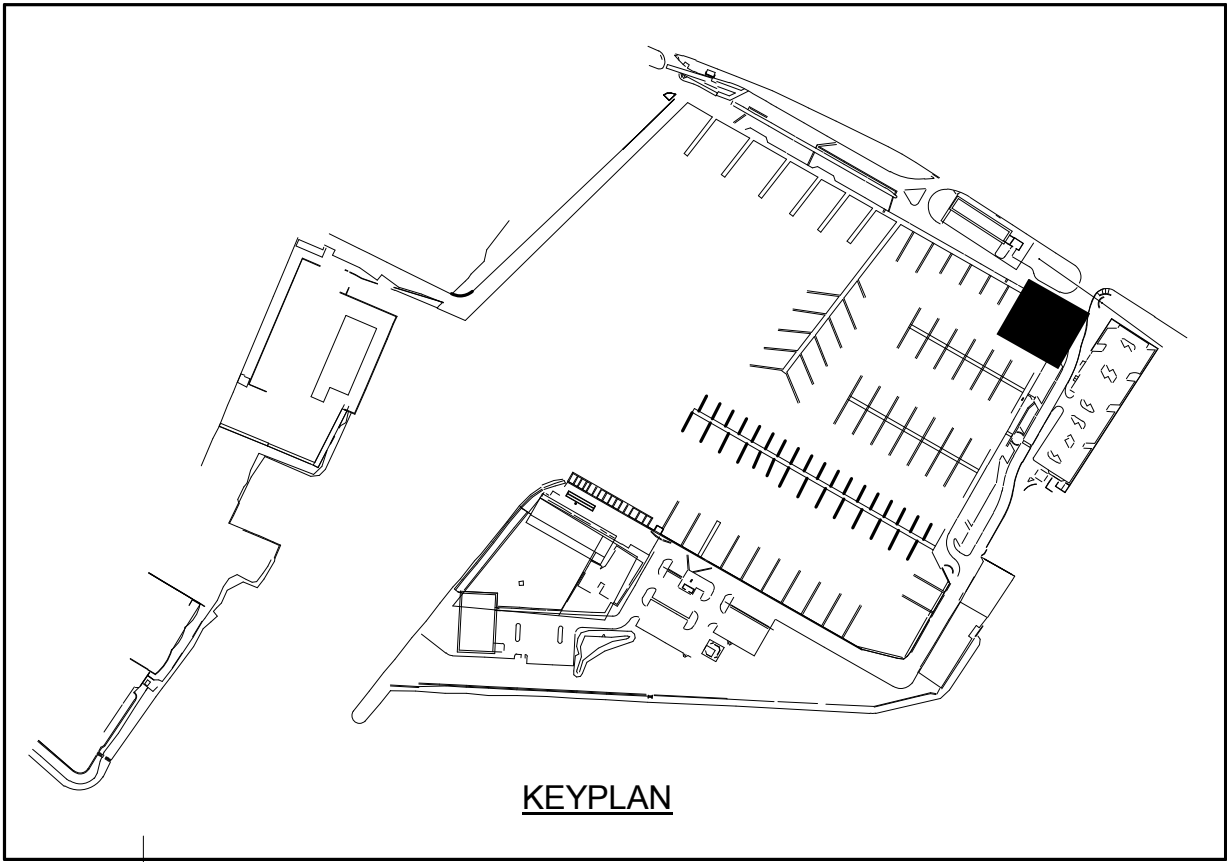
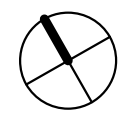
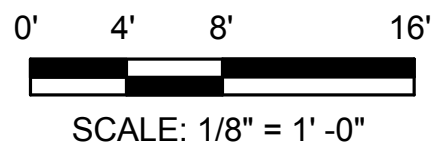
DRAWING TITLE

M-E103

10/16/2015 6:06:59 PM



1 PARTIAL PIER "F" MECHANICAL PLAN
1/8" = 1'-0"



50% CD

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HONOLULU, HAWAII
DRAWING TITLE
PARTIAL PIER "F" MECHANICAL PLAN

REVISIONS		BY	DESCRIPTION	DATE	NO.
PROJECT NO.		150172			
DRAWN BY:		MC/EEO			
DESIGNED BY:		CS			
CHECKED BY:		GK			
REVIEWED BY:		BL			
DATE		10/16/15			

M-F101

DRAWING TITLE

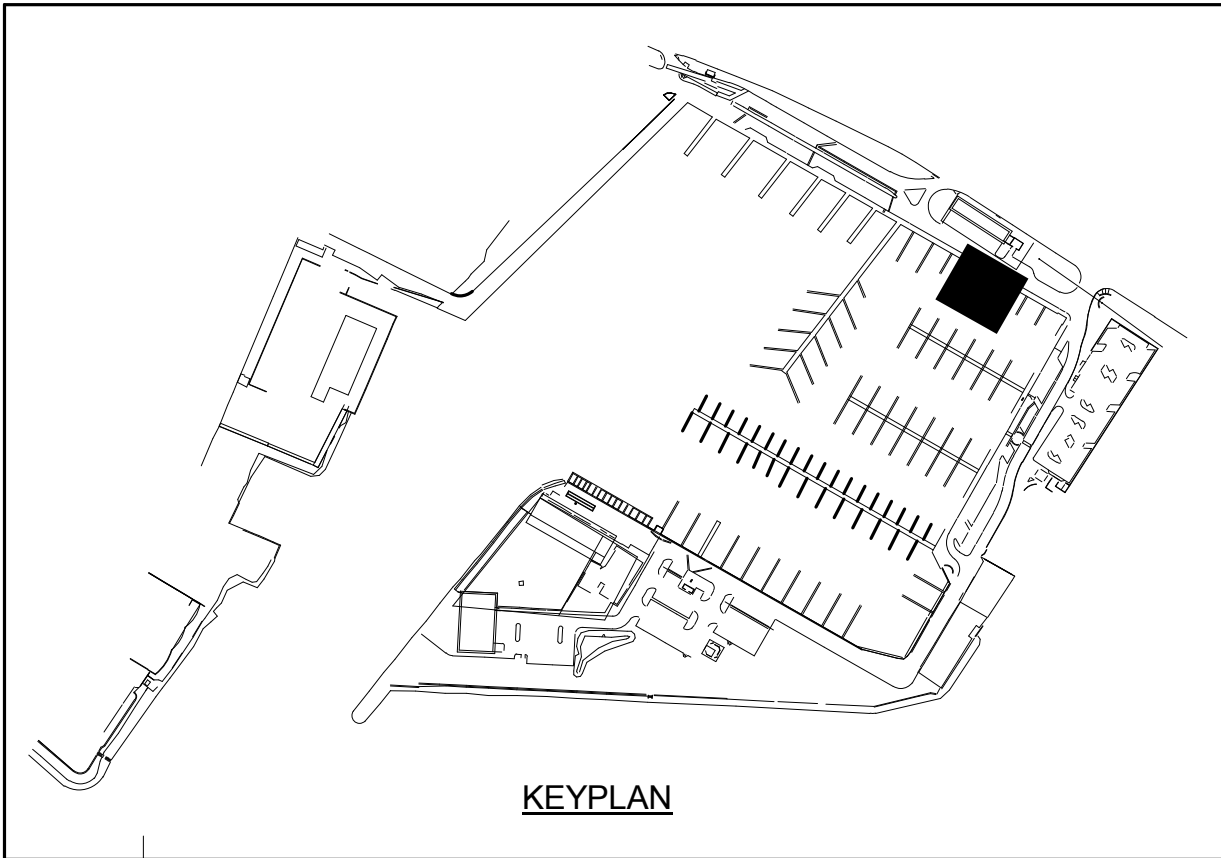
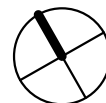
PROJECT NO.	150172
DRAWN BY:	MC/EEO
DESIGNED BY:	CS
CHECKED BY:	GK
REVIEWED BY:	BL
DATE	10/16/15

10/16/2015 6:07:00 PM

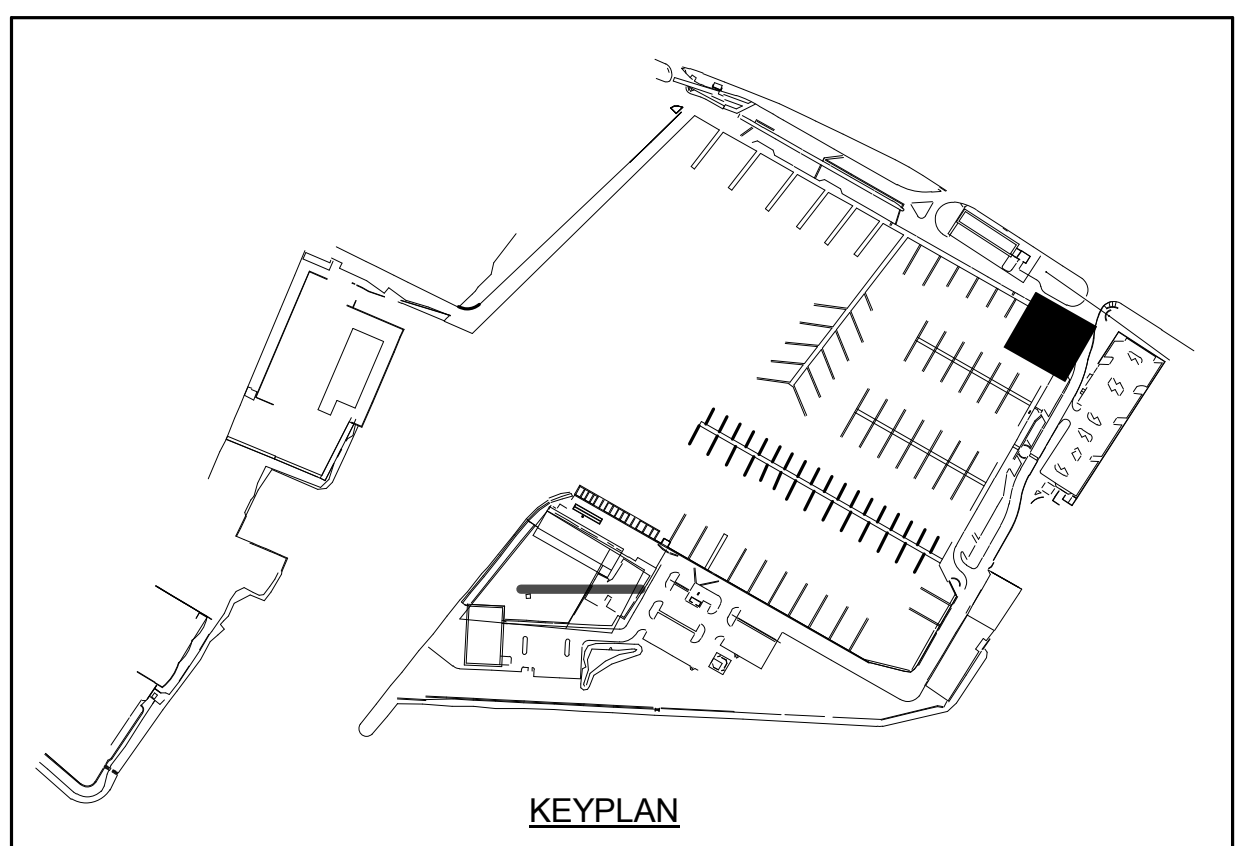


0' 4' 8' 16'

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



DRAWING TITLE

M-F103

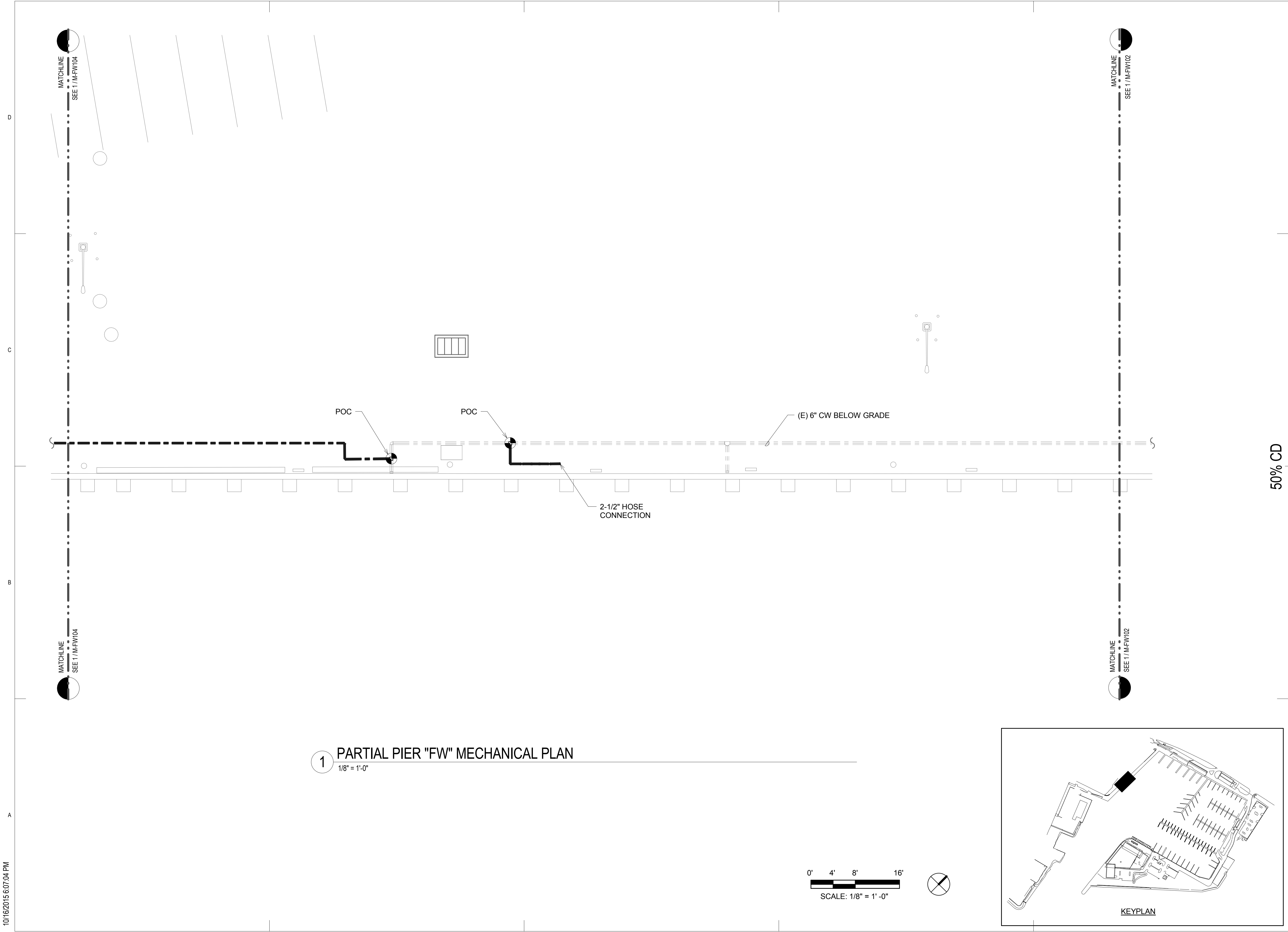
DRAWING TITLE

M-FW101
$$1/8'' = 1'-0''$$


10/16/2015 6:07:02 PM

M-FW102

10/16/2015 6:07:04 PM



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HAWAII

DRAWING TITLE

NO.	DATE	DESCRIPTION	BY

PROJECT NO. 150172

DRAWN BY: MC/EEO

DESIGNED BY: CS

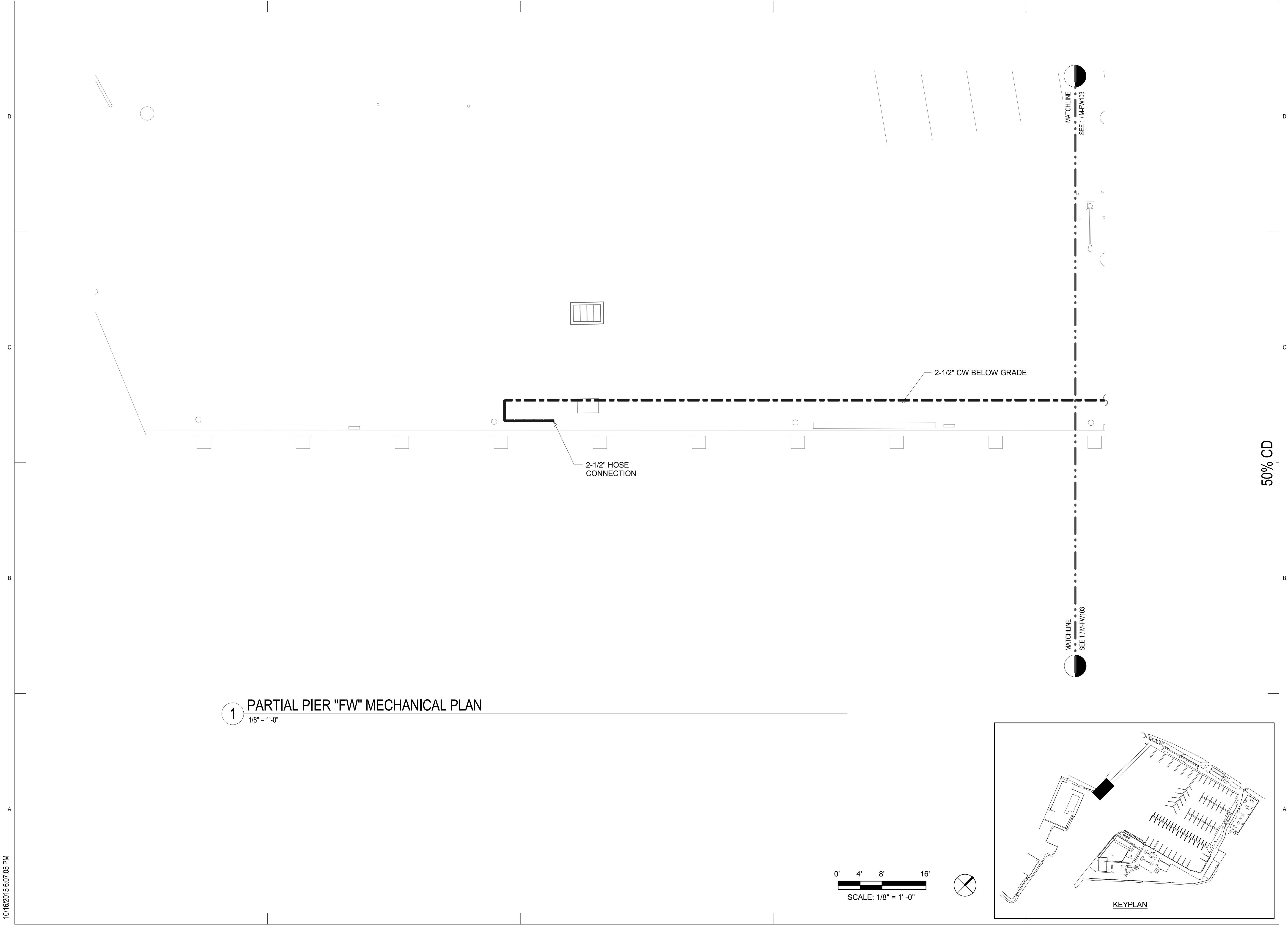
CHECKED BY: GK

REVIEWED BY: BL

DATE 10/16/15

M-FW103

10/16/2015 6:07:05 PM



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PARTIAL PIER "FW" MECHANICAL PLAN			

REVISIONS		BY	DATE	NO.
DESCRIPTION				

PROJECT NO. 150172

DRAWN BY: MC/EEO

DESIGNED BY: CS

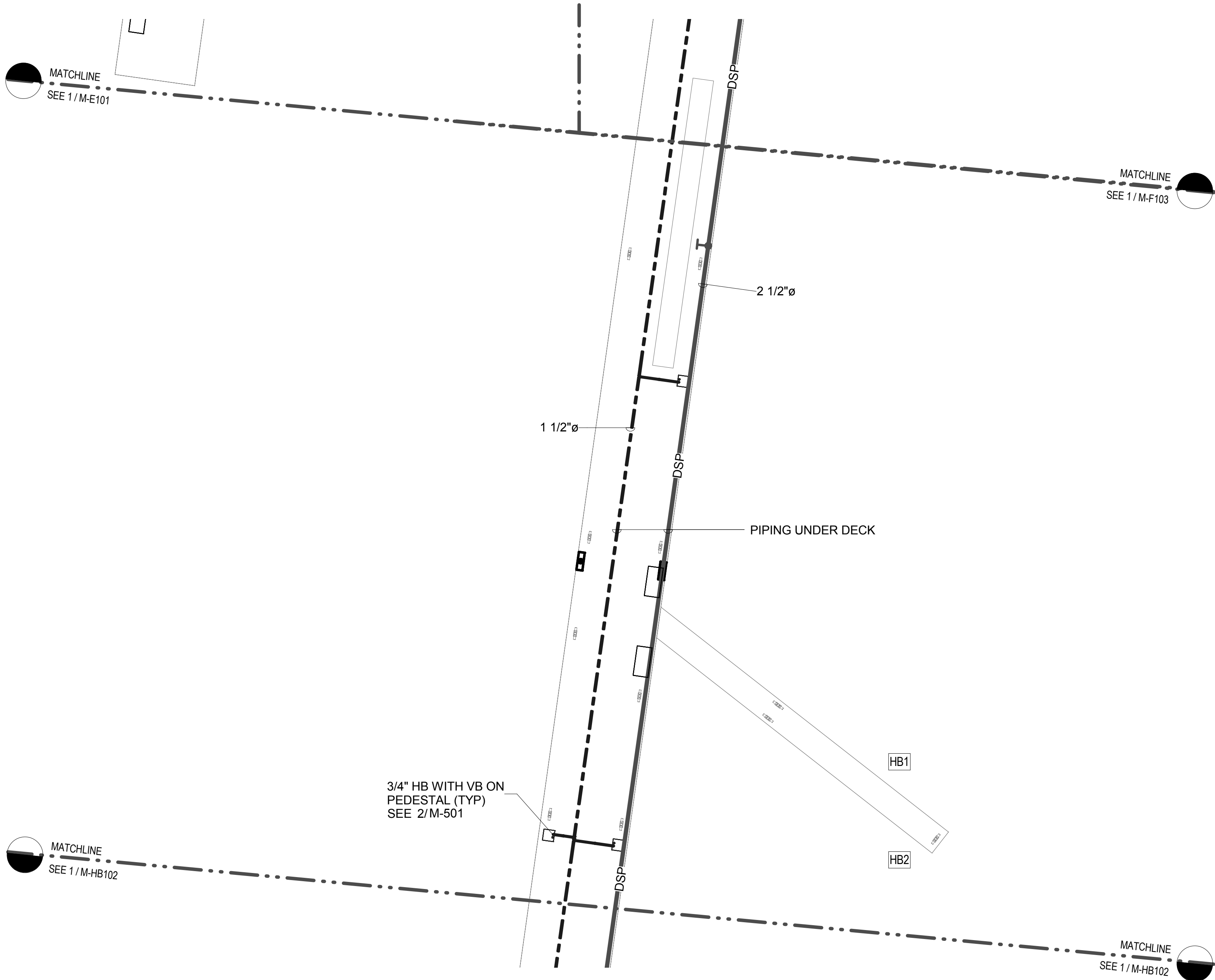
CHECKED BY: GK

REVIEWED BY: BL

DATE 10/16/15

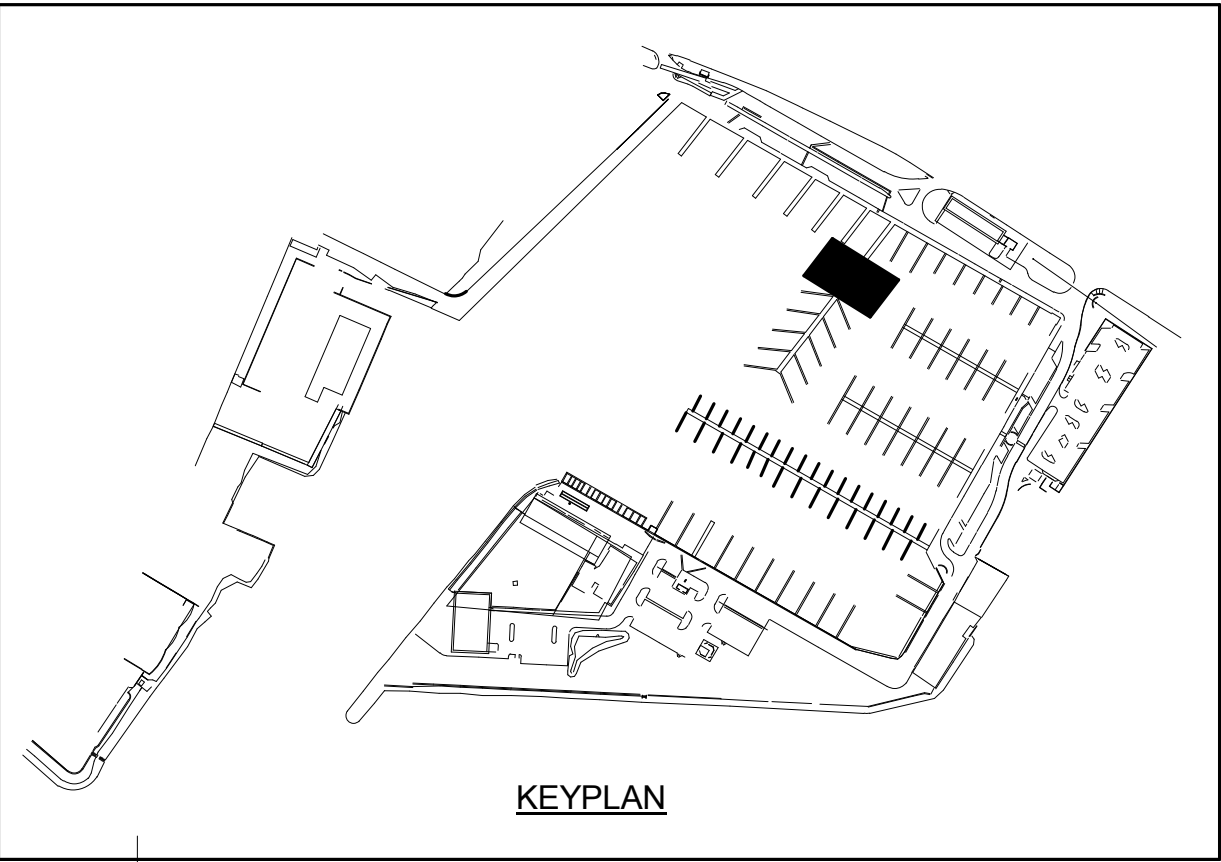
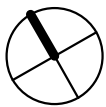
M-FW104

10/16/2015 6:07:06 PM



1 PARTIAL PIER "HB" MECHANICAL PLAN
1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1' -0"



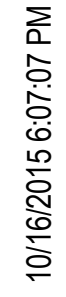
NOT FOR CONSTRUCTION

KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU, HAWAII
PARTIAL PIER "HB" MECHANICAL PLAN

REVISIONS		DRAWING TITLE				
NO.	DATE	DESCRIPTION	BY			
PROJECT NO.			150172			
DRAWN BY:			MC/EEO			
DESIGNED BY:			CS			
CHECKED BY:			GK			
REVIEWED BY:			BL			
DATE			10/16/15			

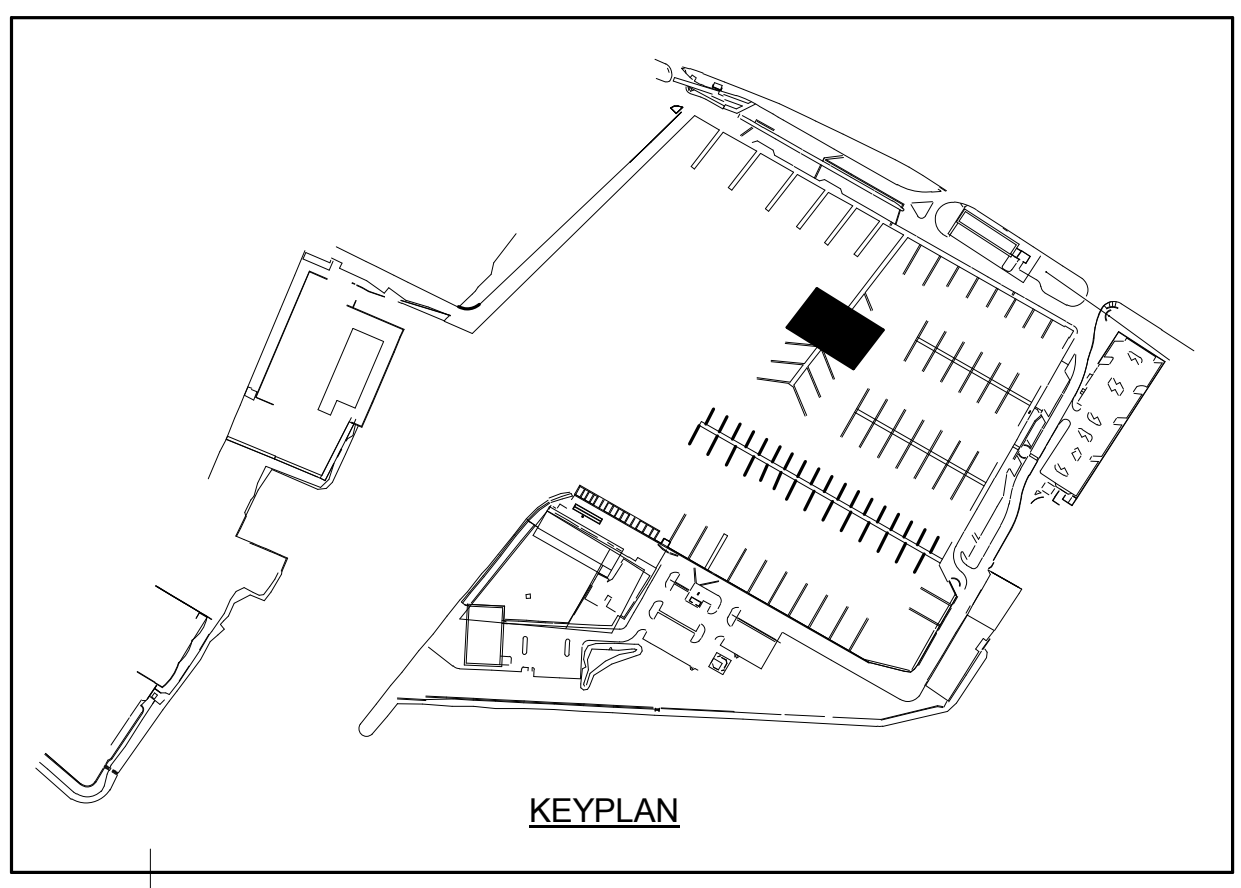
M-HB101

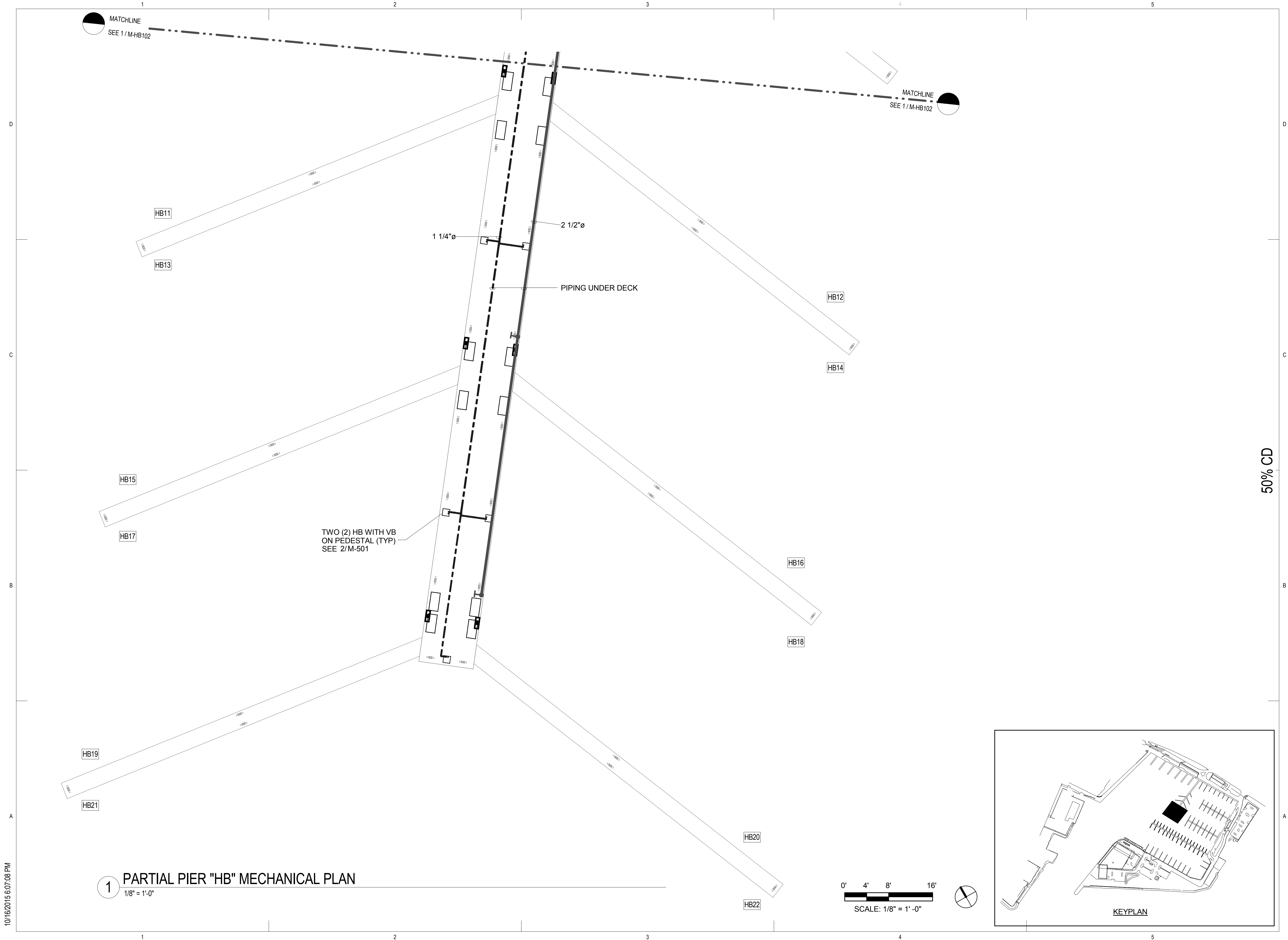
DRAWING TITLE

M-HB102

0' 4' 8' 16'

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





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HONOLULU, HAWAII

DRAWING TITLE

PARTIAL PIER "HB" MECHANICAL PLAN

NO.	DATE	DESCRIPTION	BY

PROJECT NO.

150172

DRAWN BY:

MC/EEO

DESIGNED BY:

CS

CHECKED BY:

GK

REVIEWED BY:

BL

DATE

10/16/15

10/16/2015 6:07:08 PM

1

PARTIAL PIER "HB" MECHANICAL PLAN

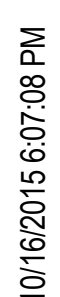
1/8" = 1'-0"

0' 4' 8' 16'

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

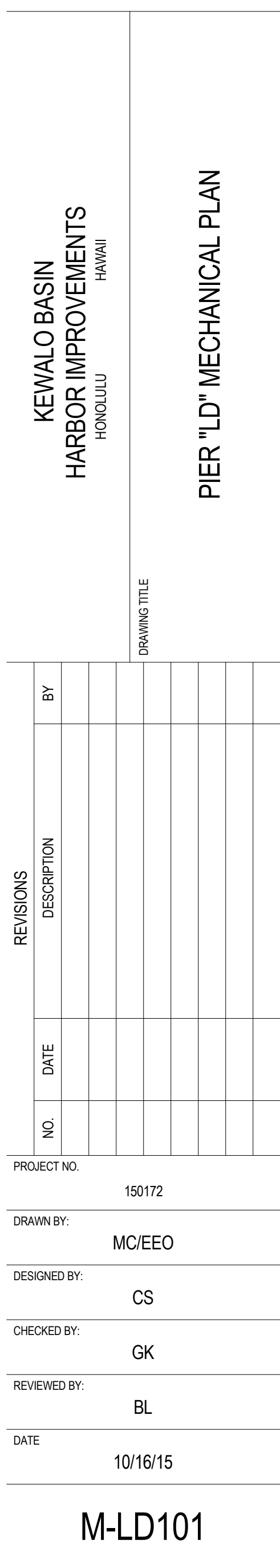
KEYPLAN

M-HB103



0' 4' 8' 16'

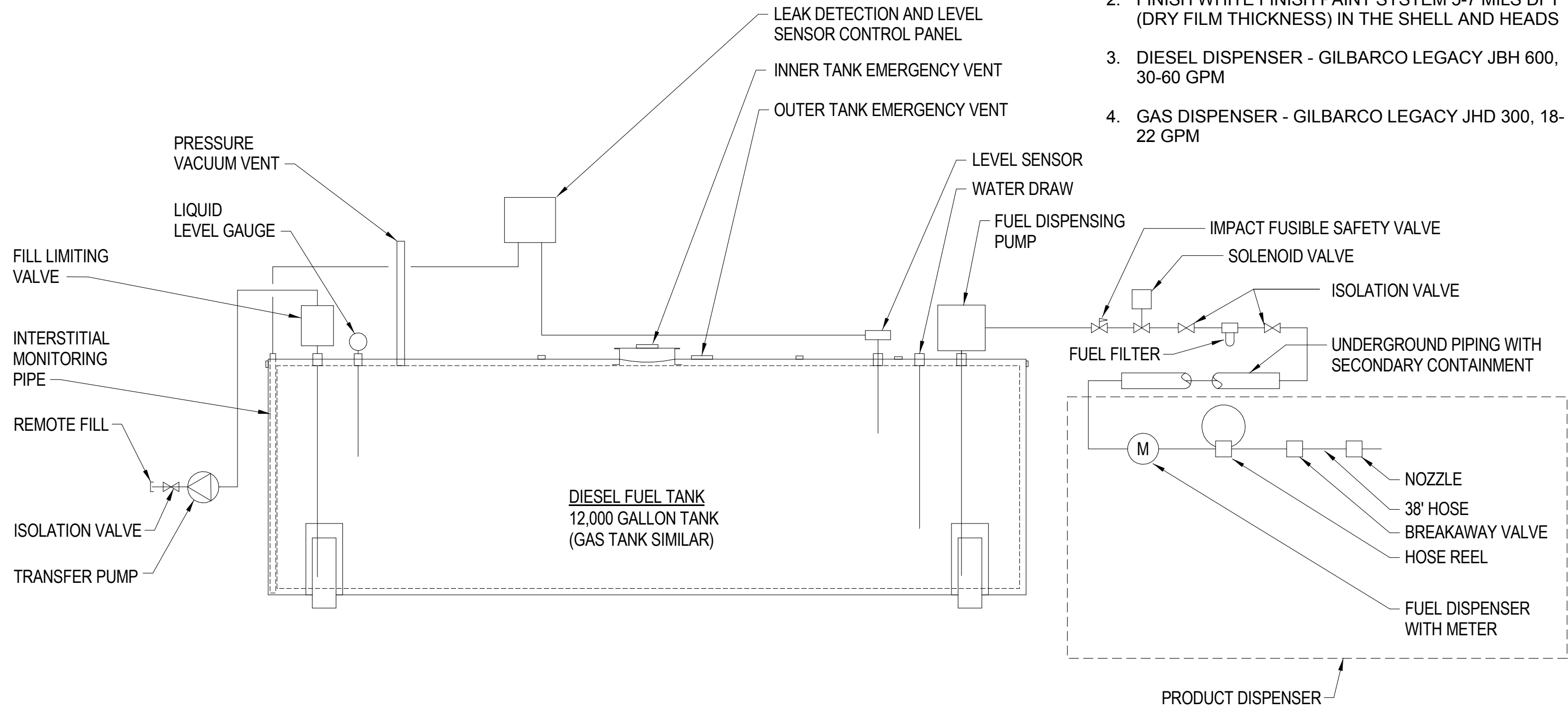
SCALE: 1/8" = 1' -0"



10/16/2015 6:06:41 PM

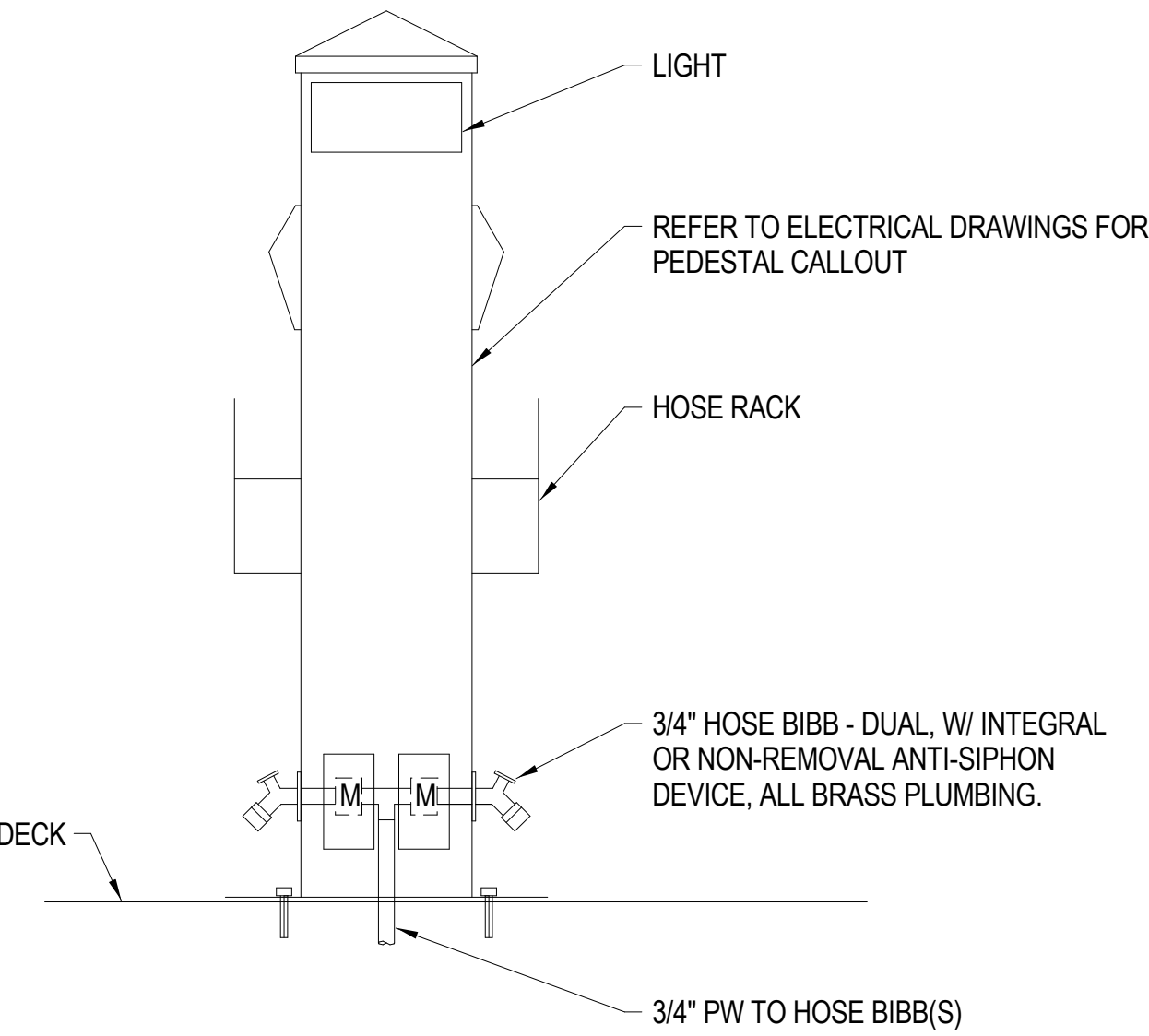
1 FUEL DIAGRAM

NOT TO SCALE



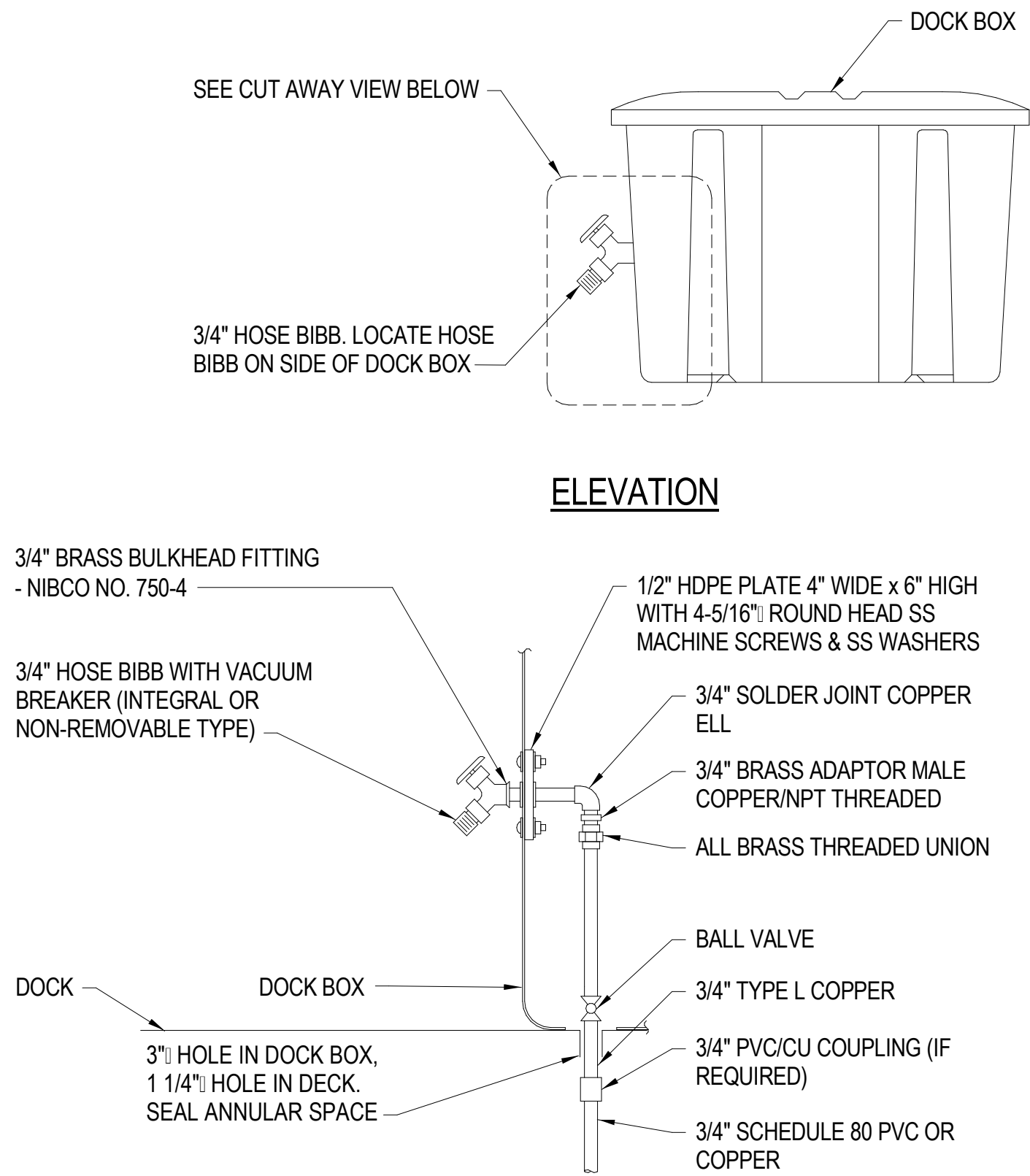
NOTES:

1. SURFACE PREPARATION: GRIT BLAST, SSPC-SP-6 WHITE BLAST.
2. FINISH WHITE FINISH PAINT SYSTEM 5-7 MILS DFT (DRY FILM THICKNESS) IN THE SHELL AND HEADS
3. DIESEL DISPENSER - GILBARCO LEGACY JBH 600, 30-60 GPM
4. GAS DISPENSER - GILBARCO LEGACY JHD 300, 18-22 GPM



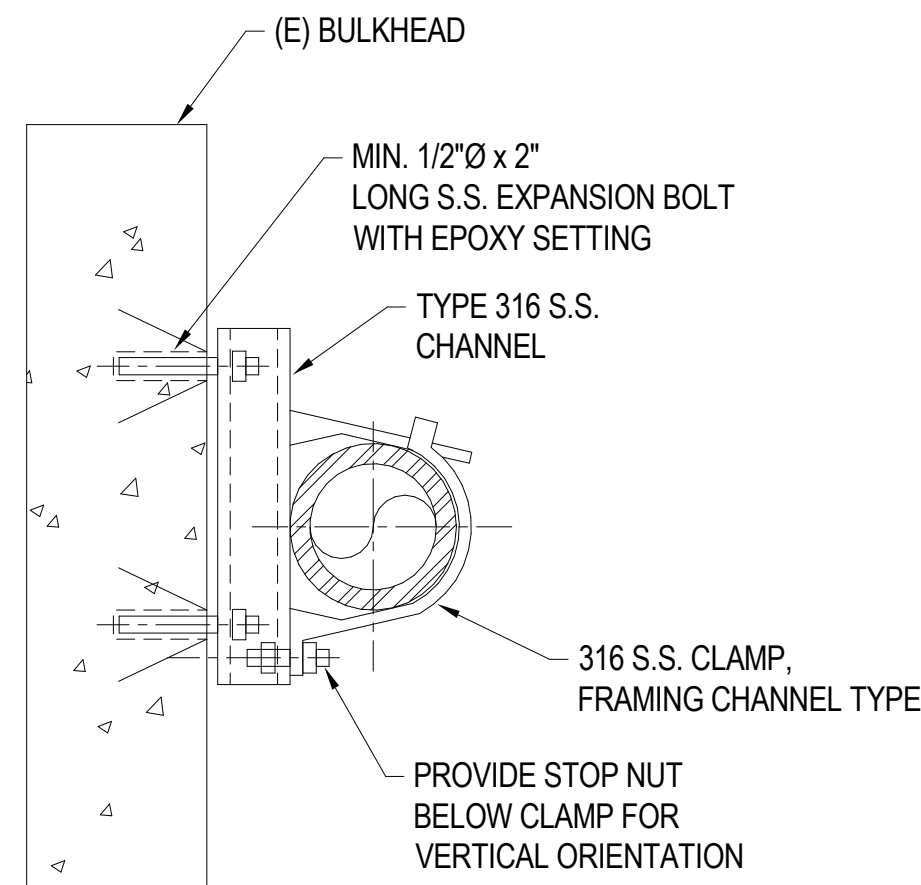
2 UTILITY PEDESTAL

NOT TO SCALE



3 HOSE BIBB AT DOCK BOX

NOT TO SCALE



NOTE:
ALL MOUNTING HARDWARE SHALL BE TYPE 316 STAINLESS STEEL

4 TYPICAL PIPE SUPPORT

NOT TO SCALE

BULKHEAD AND DECK

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HONOLULU HAWAII

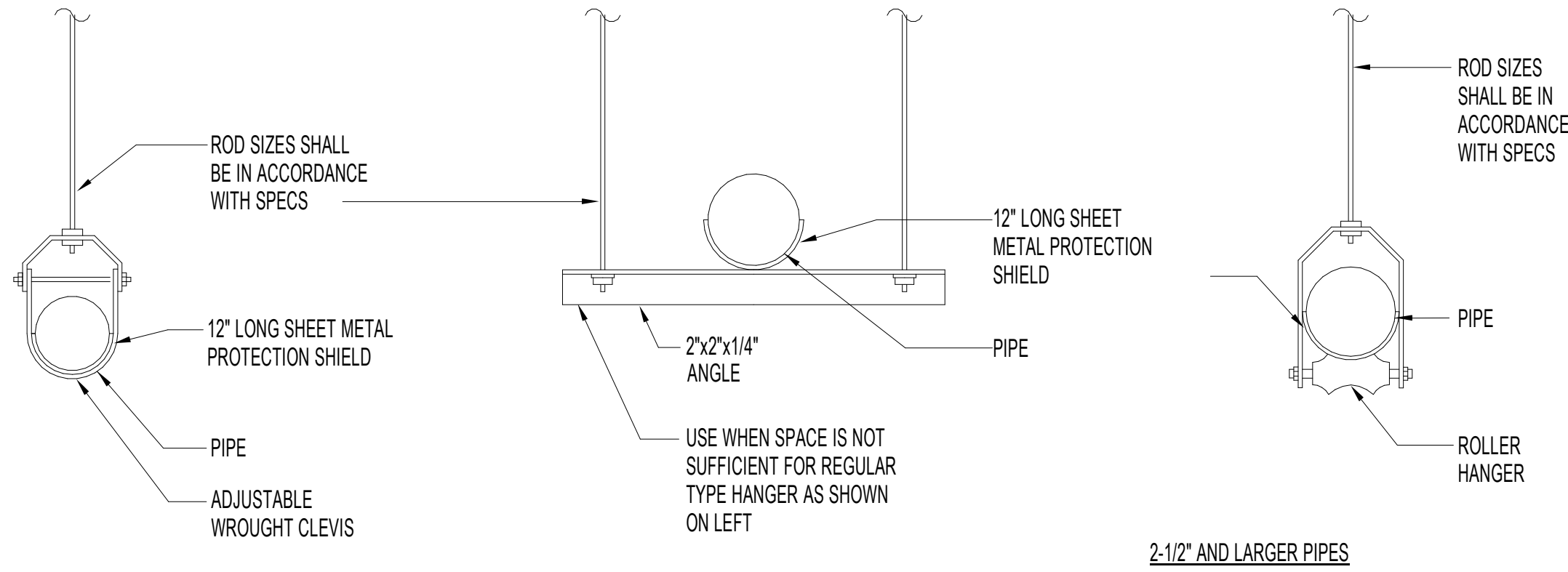
MECHANICAL DETAILS

DRAWING TITLE

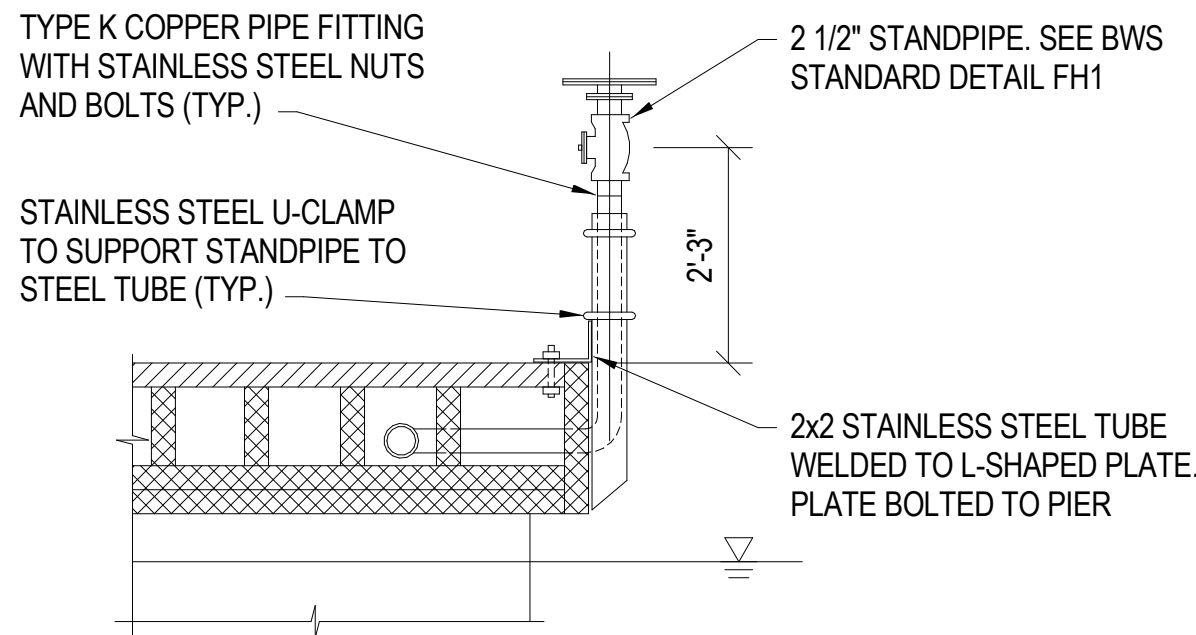
REVISIONS	DESCRIPTION		BY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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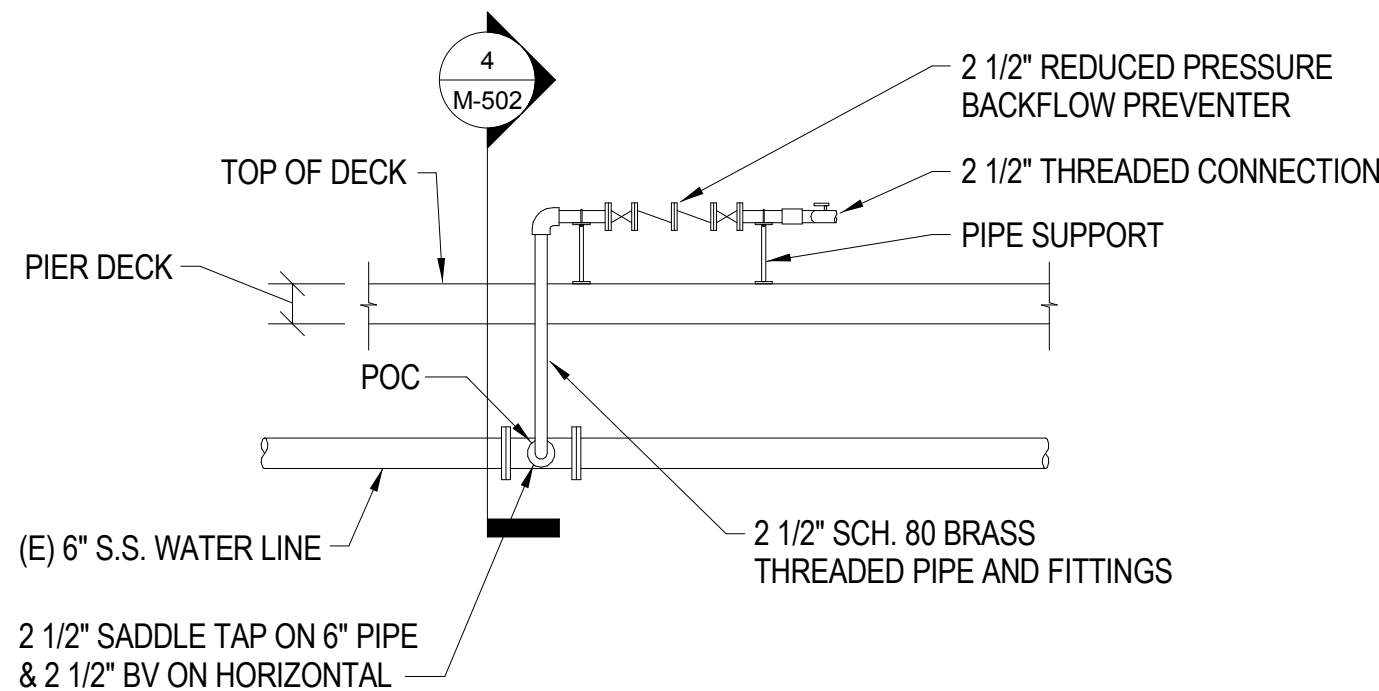
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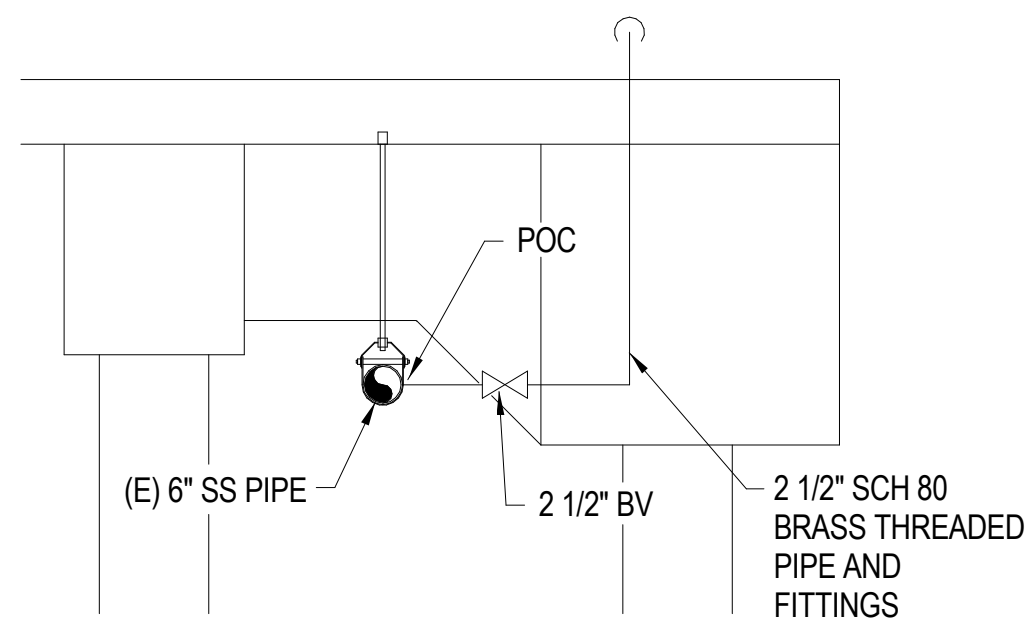
1 PIPE HANGER
NOT TO SCALE



2 DRY STANDPIPE DETAIL ON NEW PIER
NOT TO SCALE

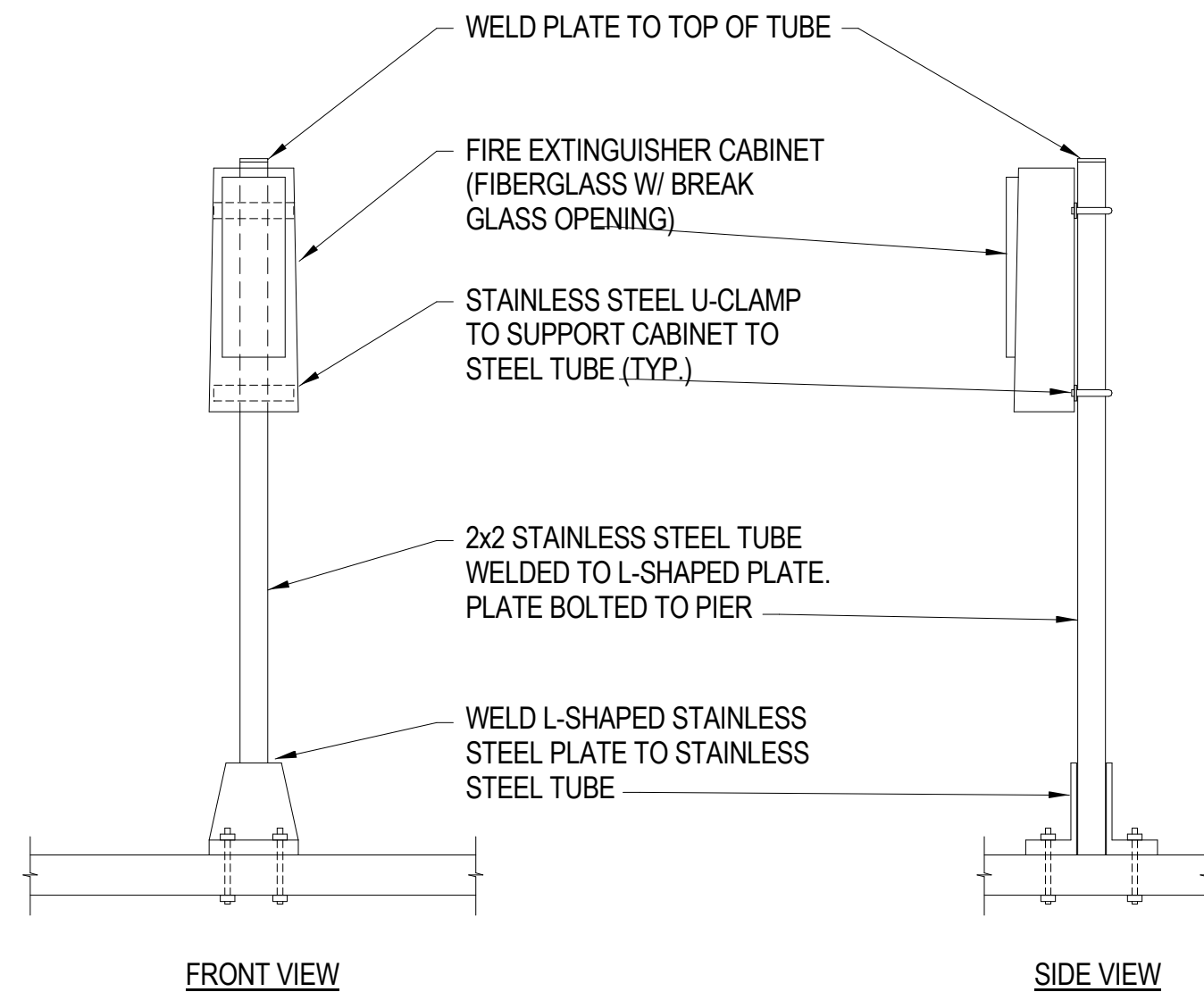


3 TYPICAL WATER OUTLET
NOT TO SCALE



SECTIONAL

4 FW WATER DETAIL
NOT TO SCALE

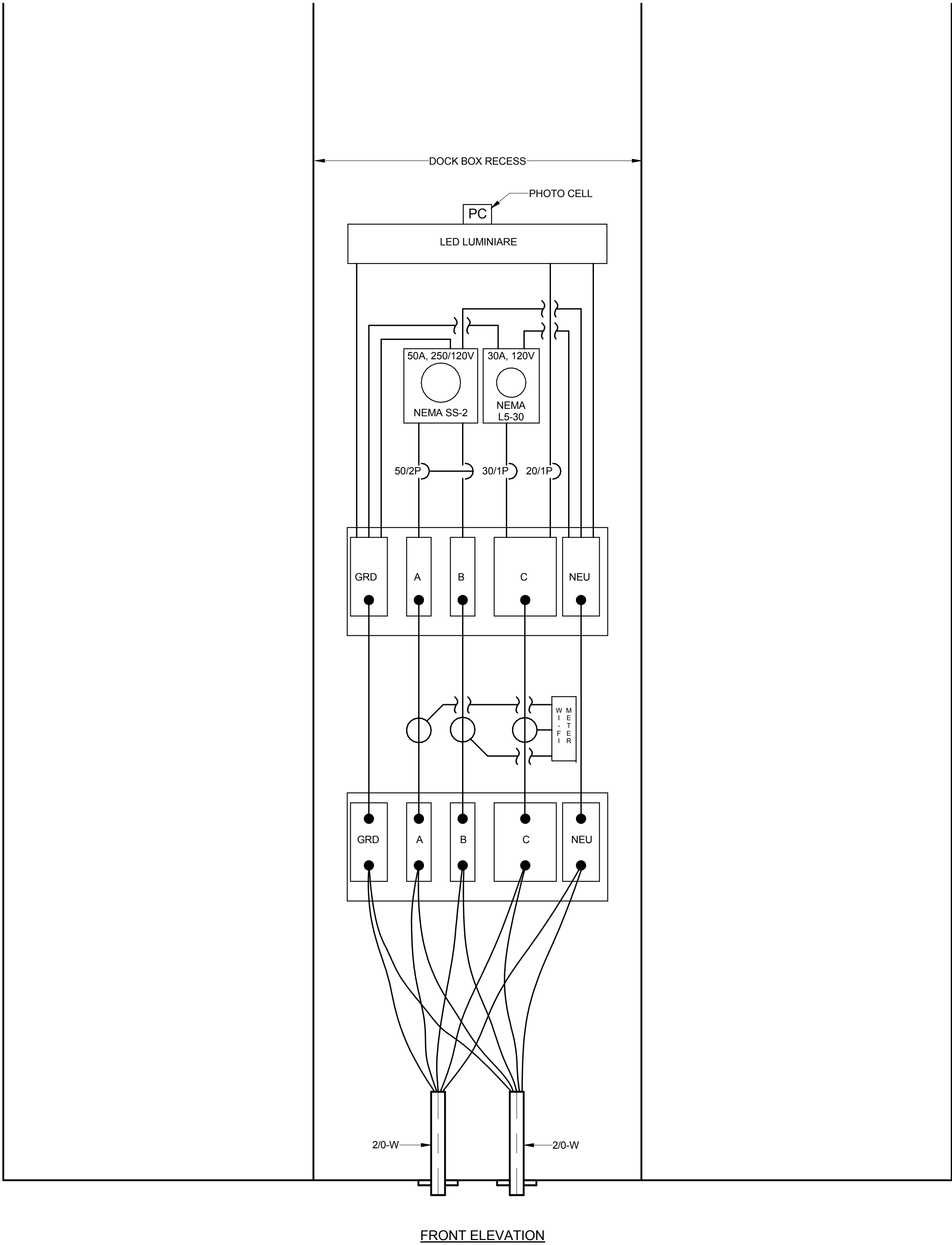


5 FIRE EXTINGUISHER CABINET SUPPORT
NOT TO SCALE

NOT FOR CONSTRUCTION

REVISIONS		DRAWING TITLE				
NO.	DATE	DESCRIPTION	BY			
PROJECT NO.			150172			
DRAWN BY:			MC/EEO			
DESIGNED BY:			CS			
CHECKED BY:			GK			
REVIEWED BY:			BL			
DATE			10/16/15			

10/16/2015 6:07:15 PM



1 HARBOR MATE DOCK BOX - WIRING DIAGRAM
NOT TO SCALE

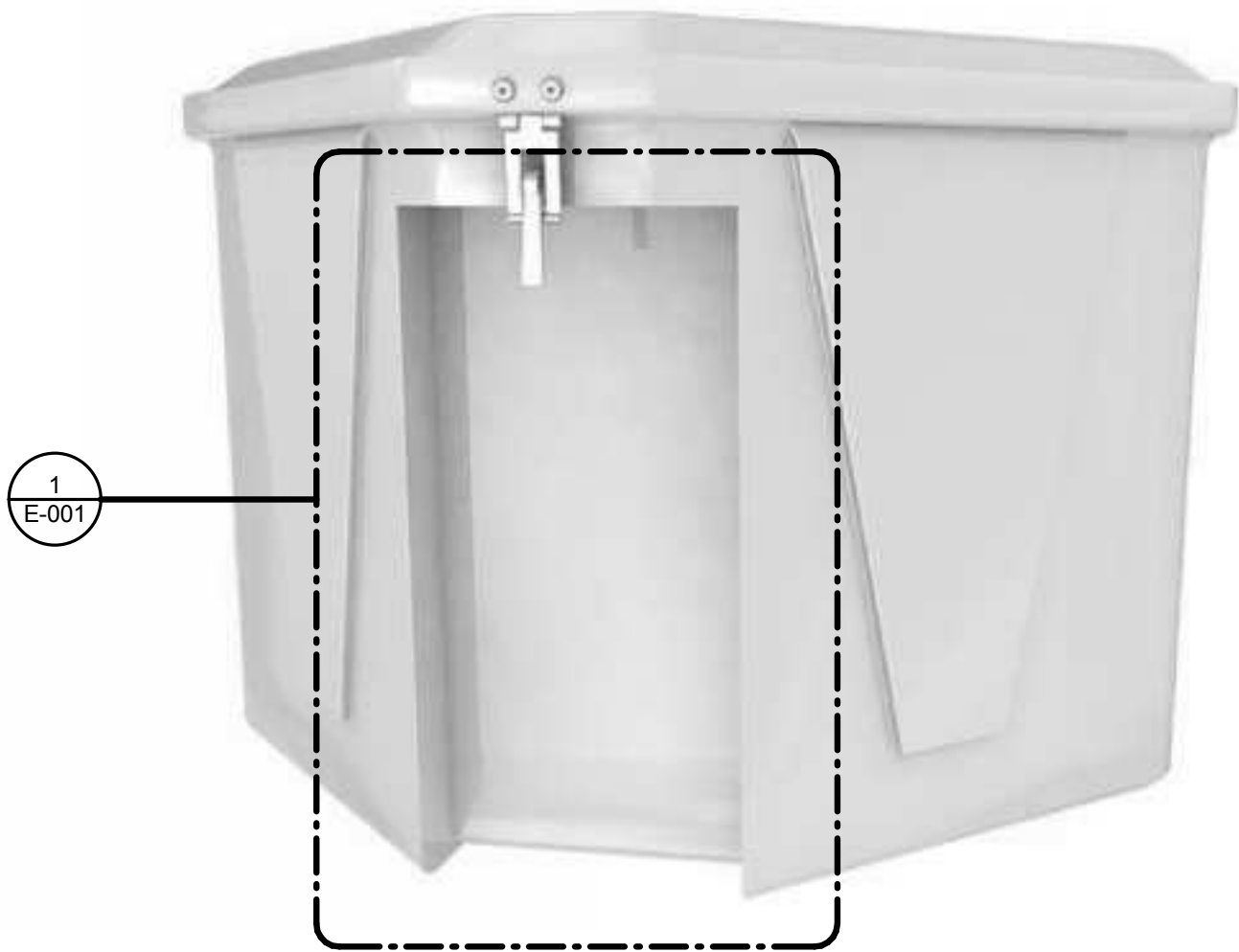
ELECTRICAL LEGEND

SYMBOLS:

- EQUIPMENT CONNECTION
- ELECTRICAL POWER METER METER, REMOTE READING WITH PROVISIONS FOR WATER METERING.
- NEMA RECEPTACLE AMPERAGE RATING AS SHOWN.
- PIER POWER AND LIGHTING PEDESTAL "LIGHTHOUSE" BY EATON
- ADDED 45 DEGREE DOWN OUTLET TO EXISTING ELECTRICAL EQUIPMENT. "NEWPORT HARBOR MATE" BY EATON
- DOCK BOX WITH HARBOR MATE POWER CENTER AND DUAL HOSE BIBS. SEE E-010 FOR ADDITIONAL DETAILS. BOXES UNLIMITED - BOX 431
- SEE KEYNOTE LEGEND THIS SHEET

ABBREVIATIONS:

- (TYP) TYPICAL



Electrical Triangle Dock Box – Model 431

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
2/0-W	#2/0 TYPE W CABLES IN PIER CHANNELS. 3-2/0, 1- #6 GRD.

NOT FOR CONSTRUCTION

KEWALO BASIN HARBOR IMPROVEMENTS HONOLULU HAWAII		ELECTRICAL SYMBOL LIST	
DRAWING TITLE		DRAWING TITLE	
REVISIONS	DESCRIPTION	BY	DATE
NO.			
PROJECT NO.		150172	
DRAWN BY:		AH	
DESIGNED BY:		CAC	
CHECKED BY:		PB	
REVIEWED BY:			
DATE		10/09/15	
		E-001	

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A

B

C

D

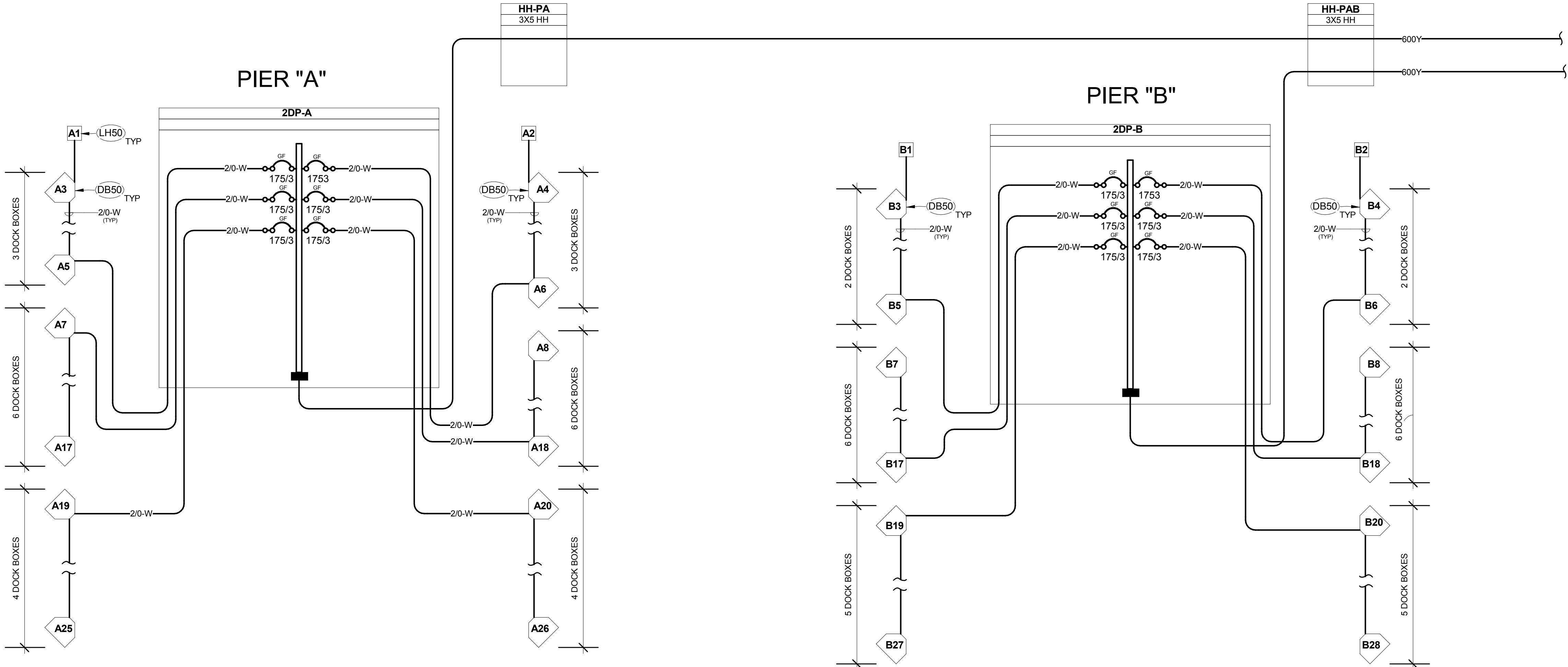
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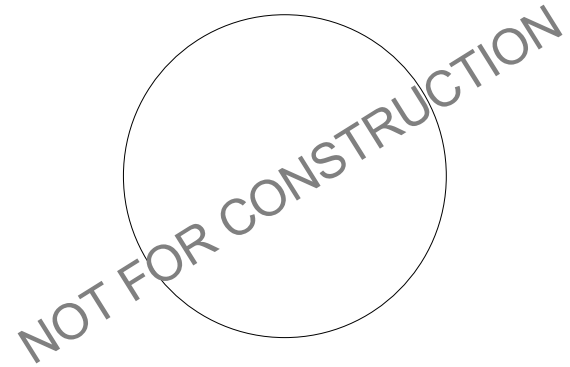
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5



1 ONE LINE DIAGRAM - PIERS "A" AND "B"
NOT TO SCALE

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
2/0-W	#2/0 TYPE W CABLES IN PIER CHANNELS. 3-2/0, 1- #6 GRD.
3X5 HH	3X5 HANDHOLE, 7" WALL, WITH LIGHT TRAFFIC RATED COVER. SIMILAR TO HECO #101021
DB50	DOCK BOX WITH "HARBOR MATE". 50 A, 125/250V OUTLET AND 30 A, 125V OUTLET. SEE SHEET 5/E-001.
LH50	LIGHTHOUSE PEDESTAL. 50 A, 125/250 V OUTLET. SEE SHEET DETAIL 3/E-011.



REVISIONS		BY	DATE	NO.	DESCRIPTION
PROJECT NO.		150172			
DRAWN BY:		AH			
DESIGNED BY:		CAC			
CHECKED BY:		PB			
REVIEWED BY:		Approver			
DATE		10/09/15			



KEYNOTE LEGEND - Y	
KEY VALUE	KEYNOTE DESCRIPTION
600Y	(2)3°C, 4-350MCM, #1/0GRD
700Y	(2)3°C, 4-400MCM, #1/0GRD
1600Y	(3)3-1/2°C, 4-600MCM, #4/0GRD AL PER C

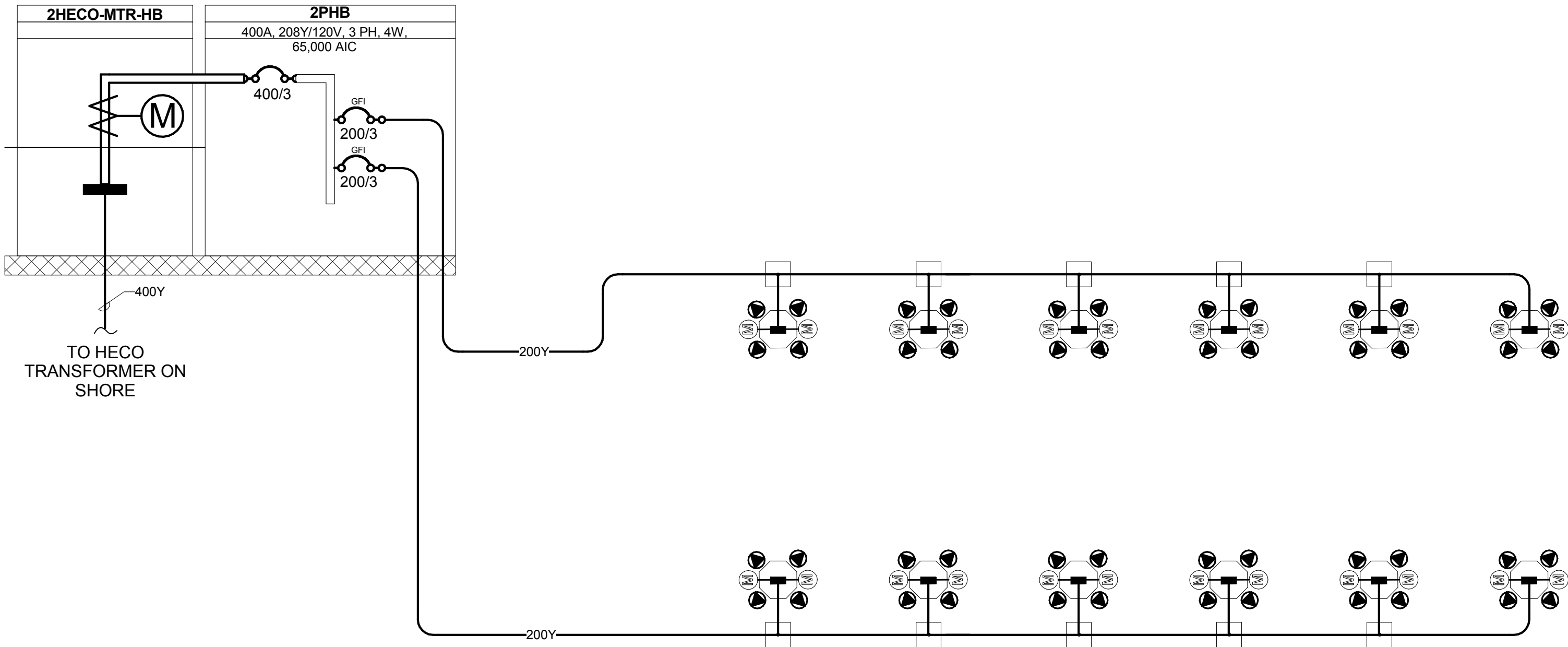
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ONE LINE DIAGRAM - PIER "C"							
REVISIONS			BY				
NO.	DATE	DESCRIPTION					
PROJECT NO.				150172			
DRAWN BY:				CAC			
DESIGNED BY:				CAC			
CHECKED BY:				PB			
REVIEWED BY:				Approver			
DATE				10/09/15			



DRAWING TITLE

E-004

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1 ONE LINE DIAGRAM - HERRINGBONE PIER
NOT TO SCALE

NOT FOR CONSTRUCTION

KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU HAWAII

DRAWING TITLE

ONE LINE DIAGRAM - HERRINGBONE PIER

REVISIONS			BY
NO.	DATE	DESCRIPTION	

PROJECT NO.	150172
DRAWN BY:	CAC
DESIGNED BY:	CAC
CHECKED BY:	PB
REVIEWED BY:	Approver
DATE	10/09/15

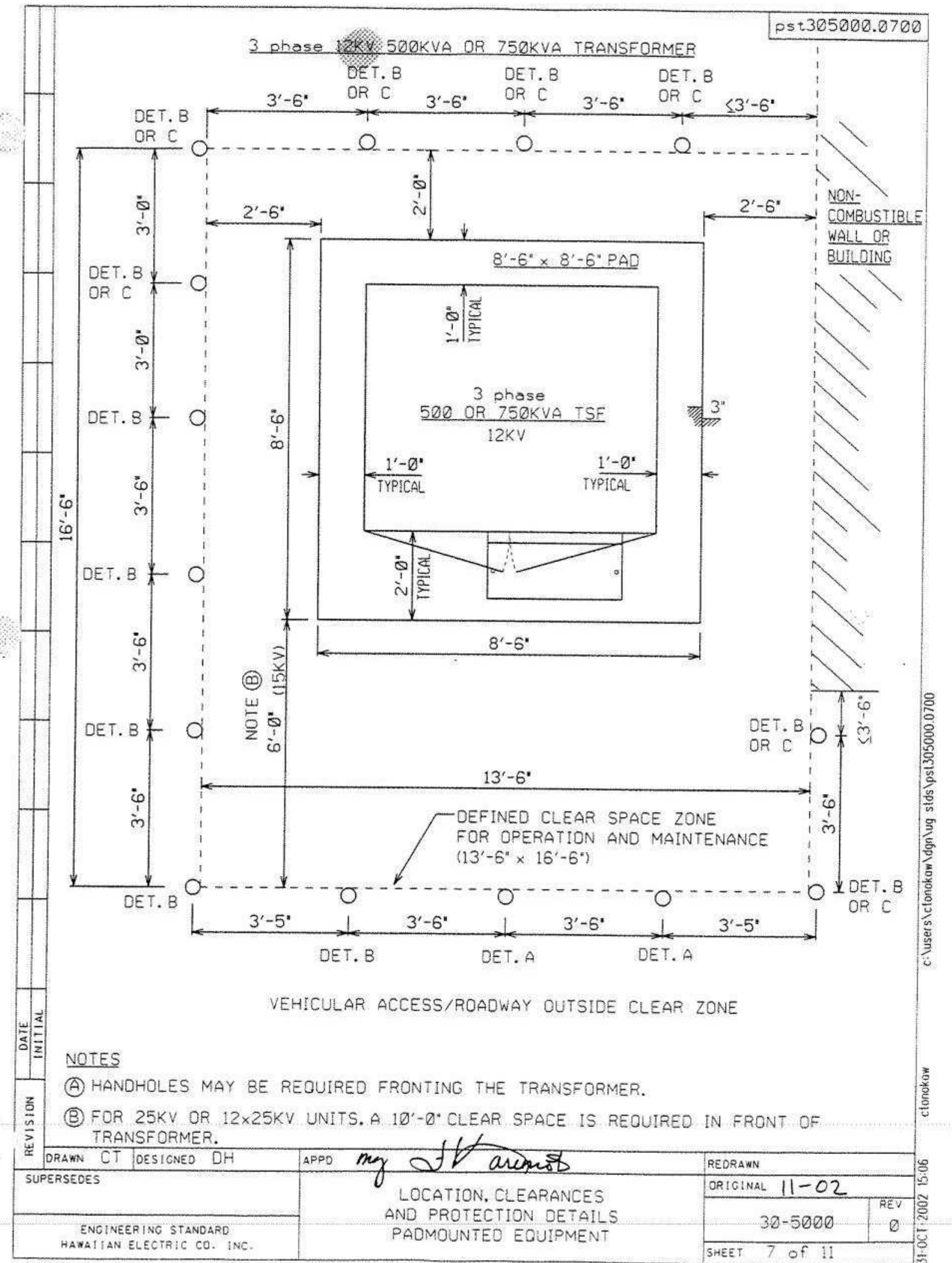
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D

C

B

A



1

HECO TRANSFORMER PAD
NOT TO SCALE

NOT FOR CONSTRUCTION

KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU HAWAII

ELECTRICAL DETAILS

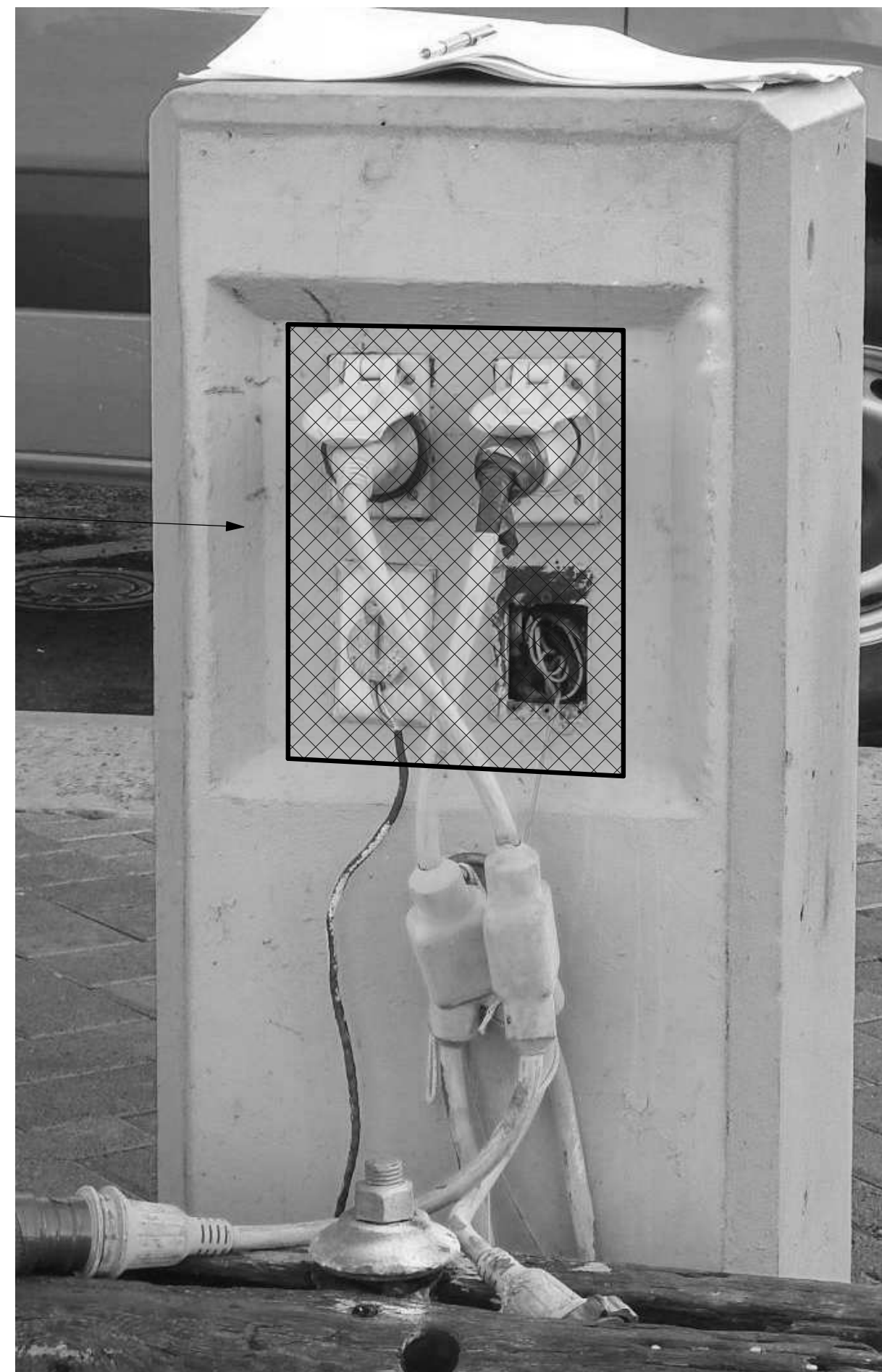
REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO.	150172
DRAWN BY:	CAC
DESIGNED BY:	CAC
CHECKED BY:	PB
REVIEWED BY:	Approver
DATE	10/09/15

E-010



NEW HARBOR
MATE
ENCLOSURE



2 EXISTING DOCK "E" (FR-DH)
NOT TO SCALE



NEW HARBORMATE
ENCLOSURE
MOUNTED TO END

NEW STAINLESS
STEEL DOORS
WITH CENTER
SUPPORT. PAINT
TO MATCH
ENCLOSURE



New Hingeless Base



Cable and Internet Connections



Optional Meter Sock

Available Options

- Digital electronic metering (one, two or three element meters available)
- ~~Built in meter socket~~
- ~~20A/125V GFI receptacle (max. of two GFI receptacles per pedestal)~~
- ~~**Note:** 20A GFI receptacles are not to be used for shore power~~

- ~~High speed Internet connections~~
- Wireless remote metering for electric and water
- Transient voltage surge suppressor (TVSS) to protect from voltage surges, spikes or lightning on the AC power line (extends warranty on internal parts to three years)
- Stainless steel door hinge on receptacle main doors
- ~~Single or dual steel 1/4 turn ball valves with 3/4 inches~~
- Hose bibs and stainless steel handles
- ~~Single or dual phone and/or cable TV connections~~
- Base cap
- Base extension
- LED lighting



— PROVIDE WITH
(1) 30A 125V
OUTLET AND
(1) 50 A
125/250V
OUTLET



5 HARBOR MATE ENCLOSURE

NOT FOR CONSTRUCTION

KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU HAWAII

EXISTING AND NEW EQUIPMENT DETAILS

[illegible]

E-011



KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU HAWAII

MISCELLANEOUS PHOTOS OF EXISTING EQUIPMENT

PROJECT NO.	150172
DRAWN BY:	CAC
DESIGNED BY:	CAC
CHECKED BY:	PB
REVIEWED BY:	PB

E-012

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1 PARTIAL EXISTING DH FRONT ROW HECO METERING AND HD DISTRIBUTION EQUIPMENT

- NTS
- NOTES:
1. REPLACE HINGE SCREWS WITH 316L STAINLESS SCREWS
 2. CLEAN,PREP AND RE-PAINT WITH TWO COATS OF EXPOXY PAINT.



2 EXISTING EWA FRONT ROW HECO METERING AND HD DISTRIBUTION EQUIPMENT

- NTS
- NOTES:
1. REPLACE HINGE SCREWS WITH 316L STAINLESS SCREWS
 2. CLEAN,PREP AND PAINT WITH TWO COATS OF EXPOXY PAINT.



3 EXISTING PIERS "A", "B", AND "C" HECO METERING AND HD DISTRIBUTION EQUIPMENT

NTS



3 EXISTING PIERS "D" HECO METERING AND HD DISTRIBUTION EQUIPMENT

NTS

NOT FOR CONSTRUCTION

50% CD

KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU, HAWAII

DRAWING TITLE

FRONT ROW ELECTRICAL DISTRIBUTION EQUIPMENT
AND PIERS "A", "B", "C" AND "D" DISTRIBUTION
EQUIPMENT

REVISIONS		DESCRIPTION	BY
NO.	DATE		
PROJECT NO.		150172	
DRAWN BY:		CAC	
DESIGNED BY:		CAC	
CHECKED BY:		PB	
REVIEWED BY:		Approver	
DATE		10/09/15	



NOT FOR CONSTRUCTION

KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU, HAWAII

OVERALL ELECTRICAL SITE PLAN

REVISIONS		DESCRIPTION	DATE	BY
NO.				
PROJECT NO.	150172			
DRAWN BY:	AH			
DESIGNED BY:	CAC			
CHECKED BY:	PB			
REVIEWED BY:	Approver			
DATE	10/09/15			

E-100

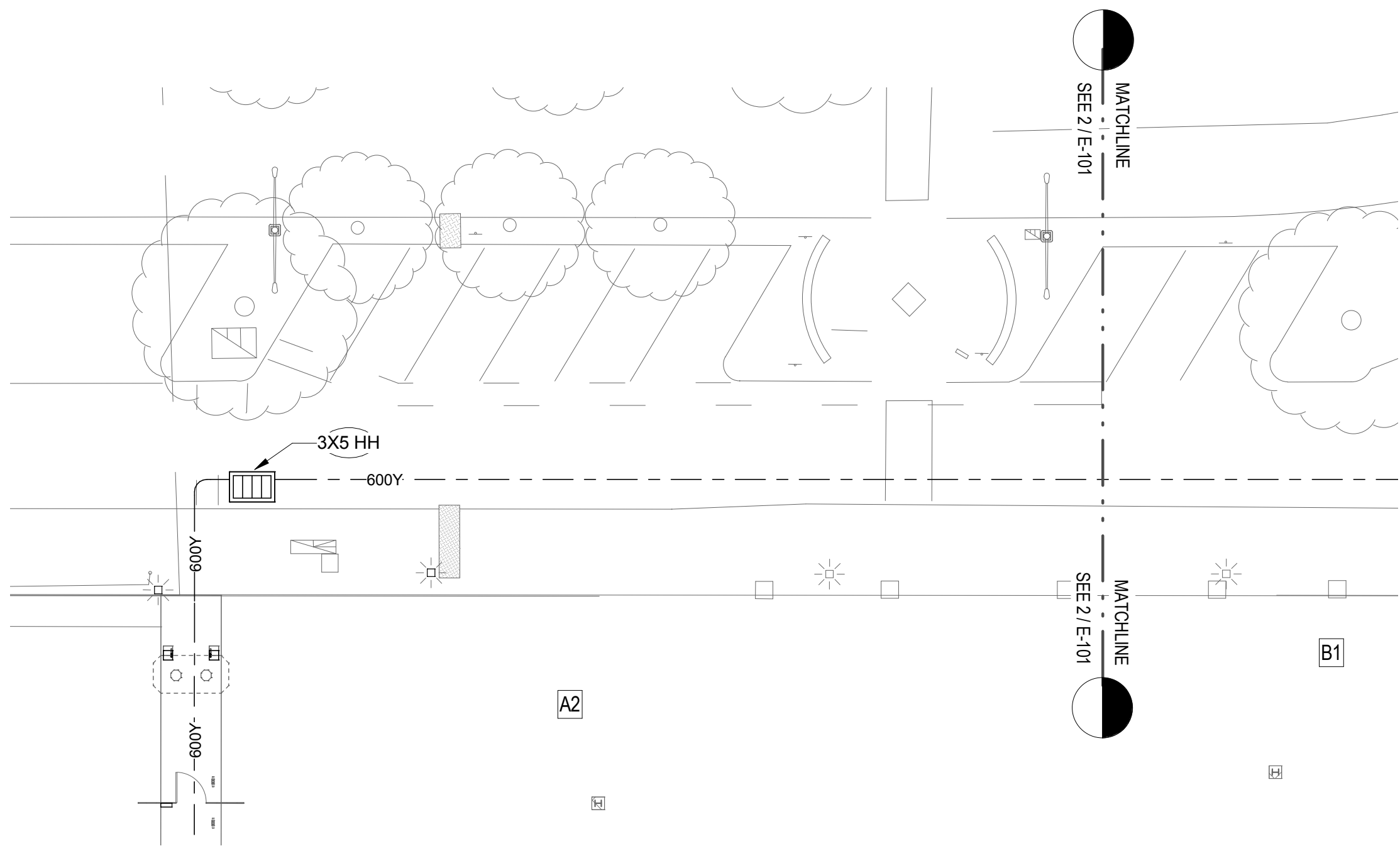
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1 2 3 4 5

D C B A

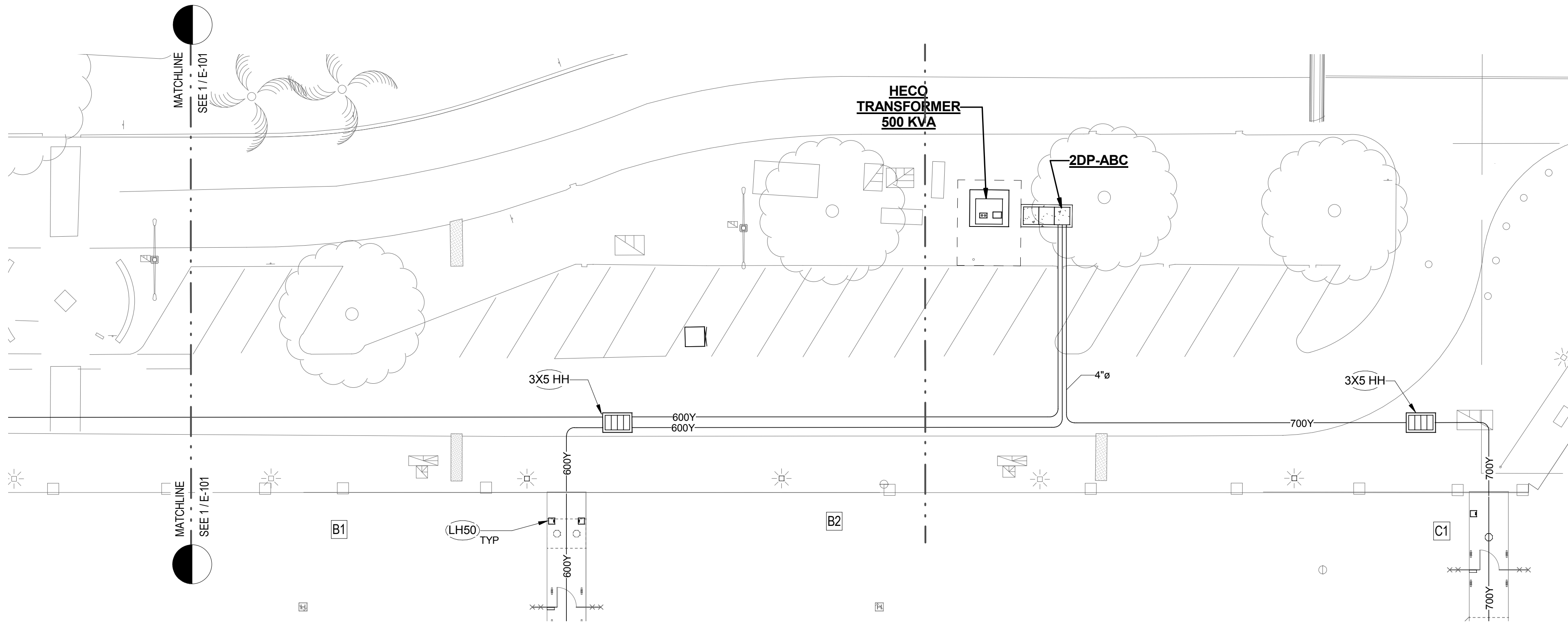
1 PARTIAL SITE - PIER "A"

1/16" = 1'-0"

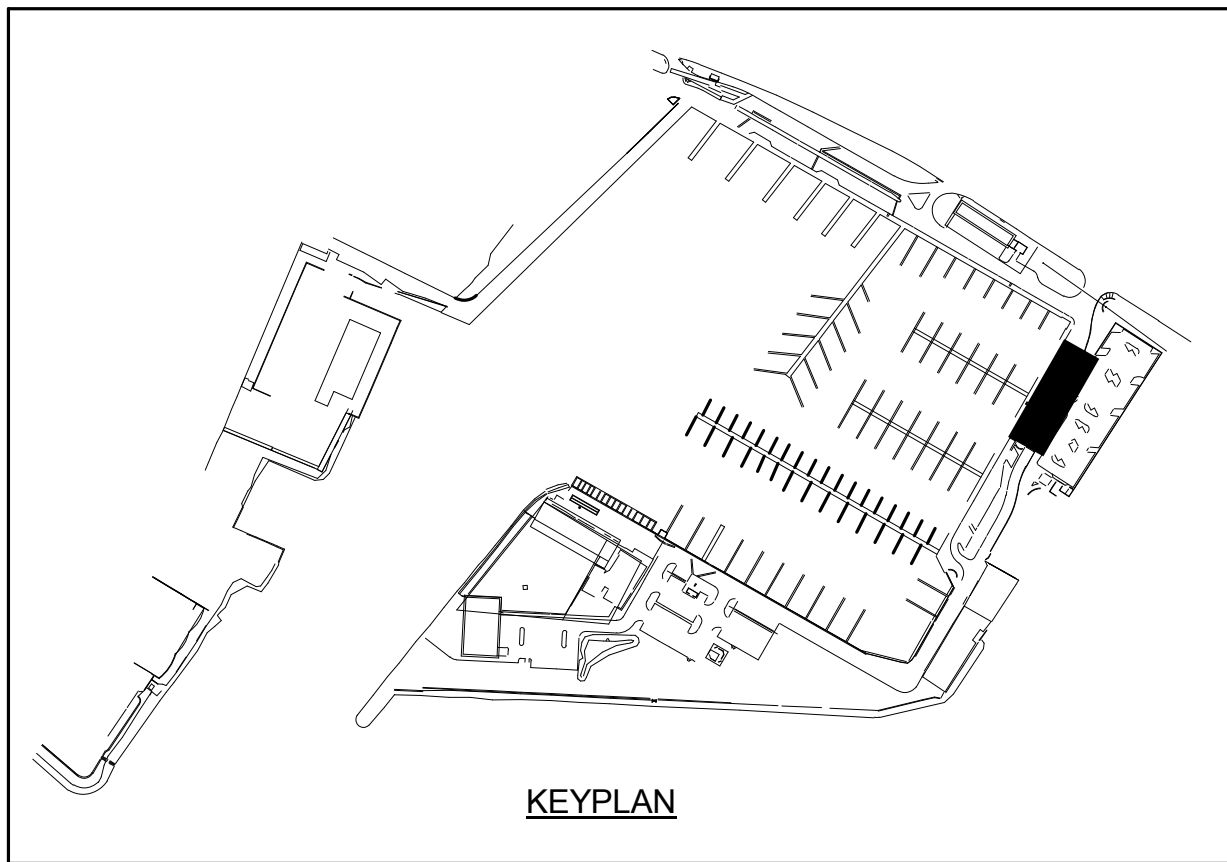
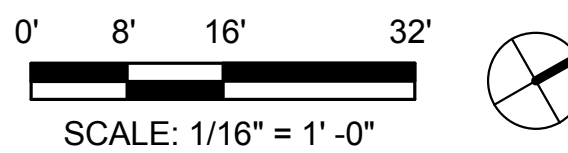
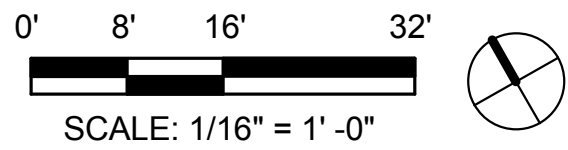


2 PARTIAL SITE - PIER "B", "C"

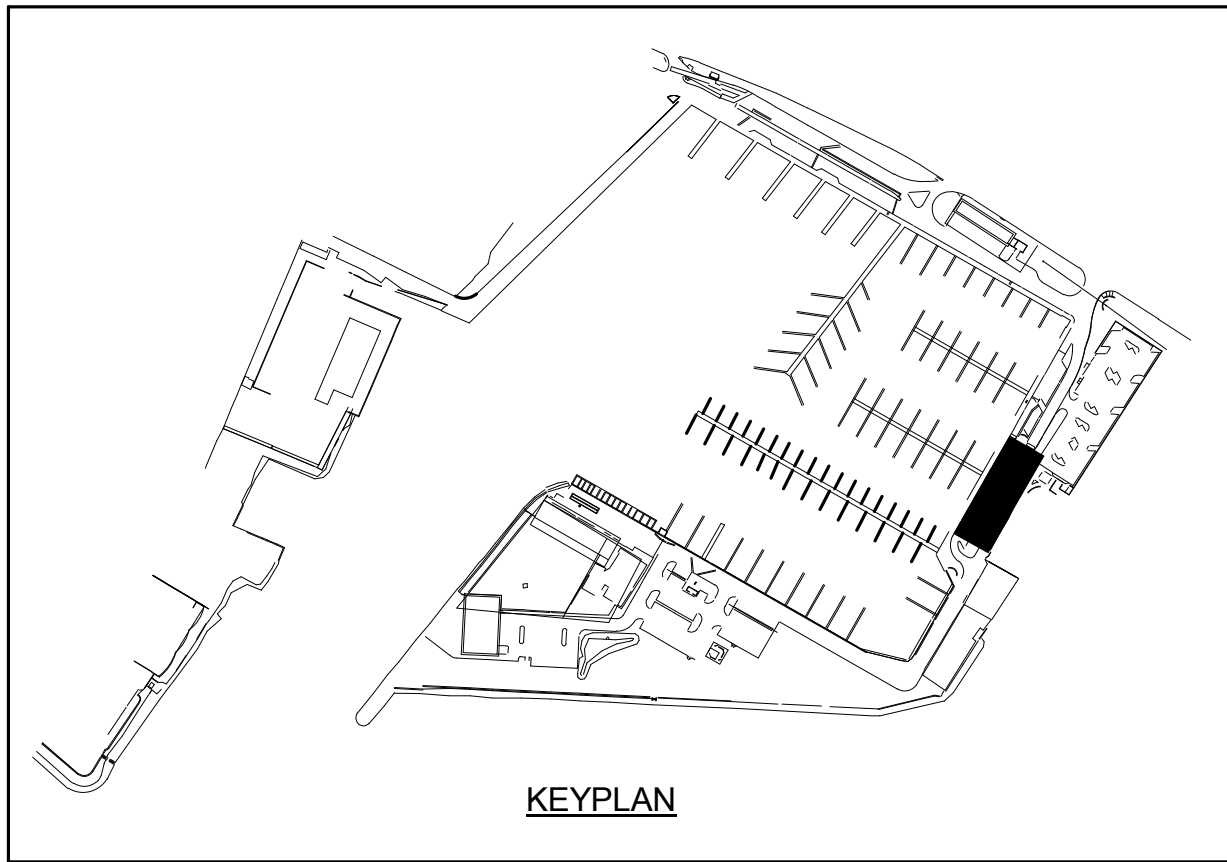
1/16" = 1'-0"



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
3X5 HH	3X5 HANDHOLE, 7" WALL, WITH LIGHT TRAFFIC RATED COVER. SIMILAR TO HECO #101021
LH50	LIGHTHOUSE PEDESTAL. 50 A, 125/250 V OUTLET. SEE SHEET DETAIL 3/E-011.



KEYPLAN



KEYPLAN

50% CD

NOT FOR CONSTRUCTION

KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU HAWAII

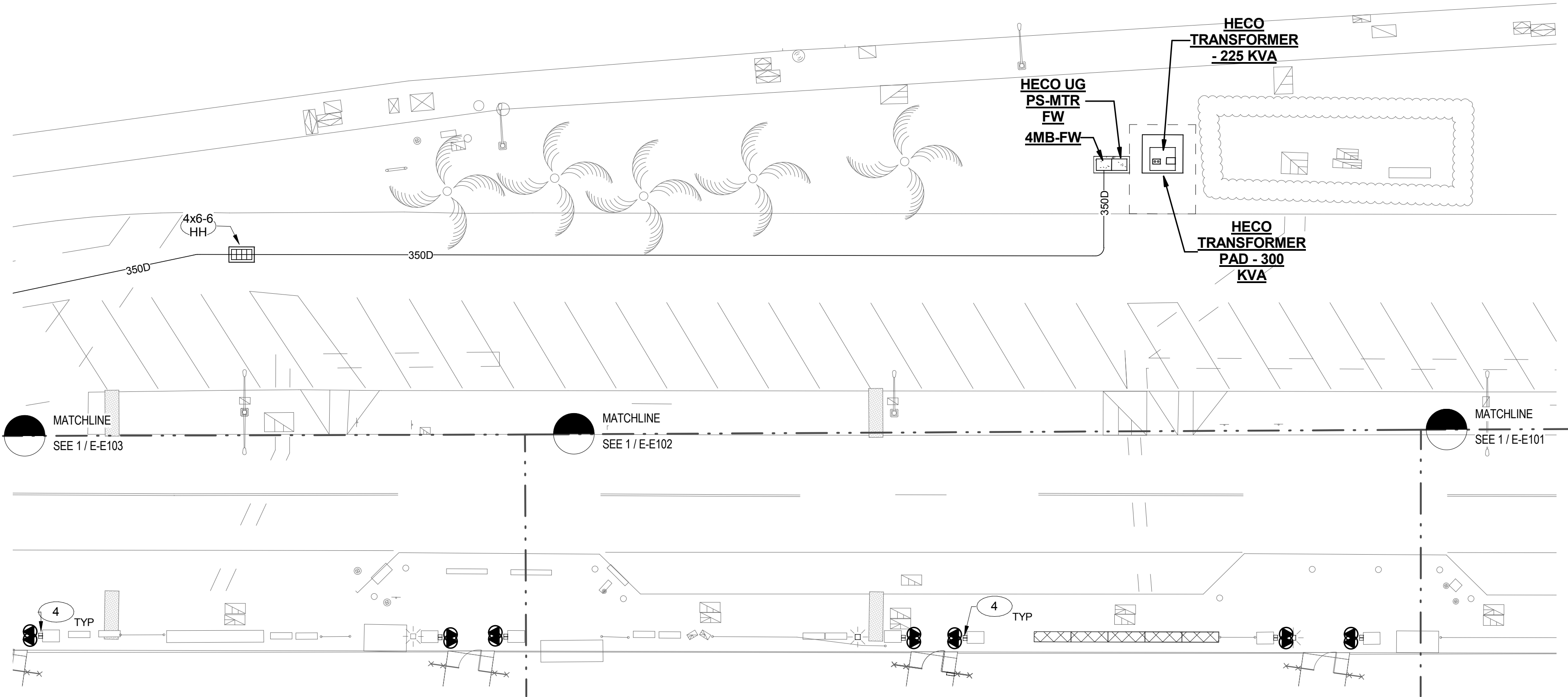
ENLARGED SITE PLANS

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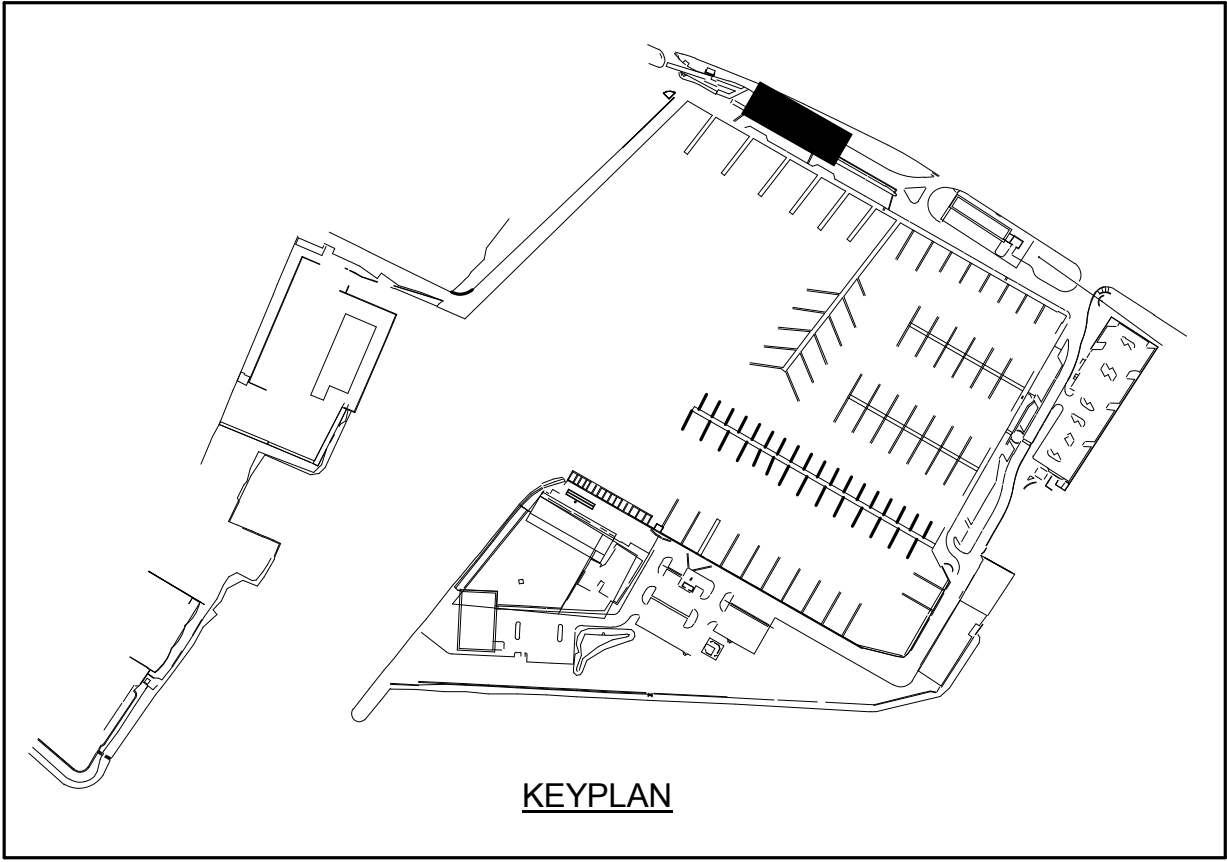
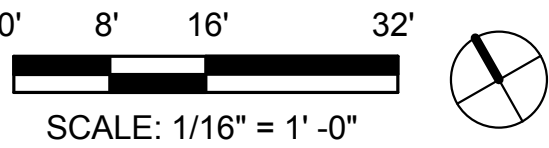
REVISIONS		BY	DATE	DESCRIPTION
NO.				
PROJECT NO.	150172			
DRAWN BY:	AH			
DESIGNED BY:	CAC			
CHECKED BY:	PB			
REVIEWED BY:	Approver			
DATE	10/09/15			

E-101

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1 PARTIAL SITE - PIER "E"
1/16" = 1'-0"



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
4	EXISTING STAINLESS STEEL DOCK POWER ENCLOSURE. PROVIDE "HARBOR MATE" ENCLOSURE ON EXTERIOR OF SS ENCLOSURE. PROVIDE 30A 125V OUTLET AND 50A 125/150 OUTLETS. EXISTING 100A 208Y/120V ANGLED OUTLET TO REMAIN.
4x6-6 HH	4"x6'6" HANDHOLE WITH TRAFFIC RATED COVER . SEE DETAIL

851 Fort Street, Suite 300 | Honolulu, Hawaii 96813
ph 808.687.8884 | fax 808.687.8883
coffman.com
LASTING creativity results relationships

NOT FOR CONSTRUCTION

KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU, HAWAII

DRAWING TITLE

REVISIONS	DESCRIPTION	BY
NO.		

PROJECT NO. 150172

DRAWN BY: AH

DESIGNED BY: CAC

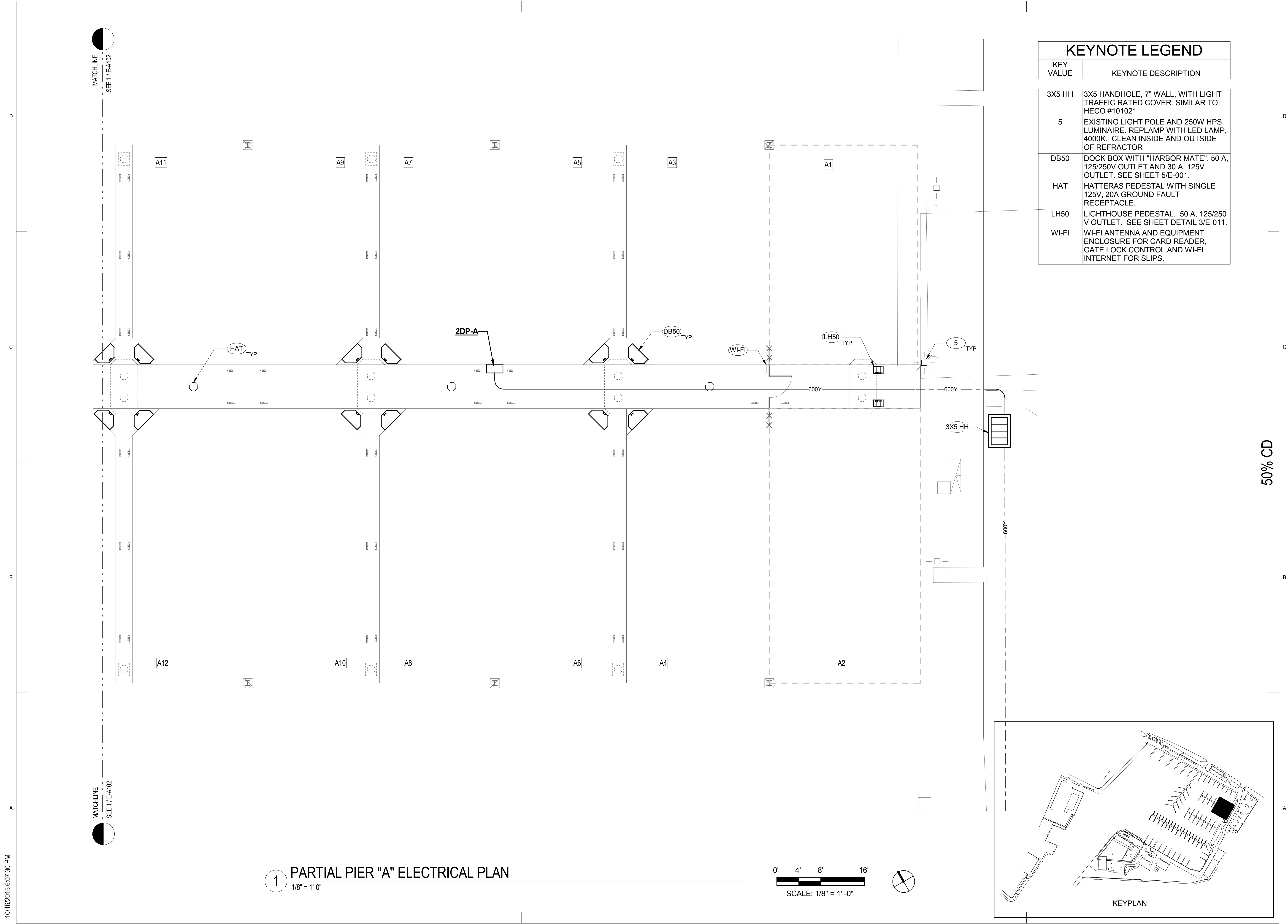
CHECKED BY: PB

REVIEWED BY: Approver

DATE 10/09/15

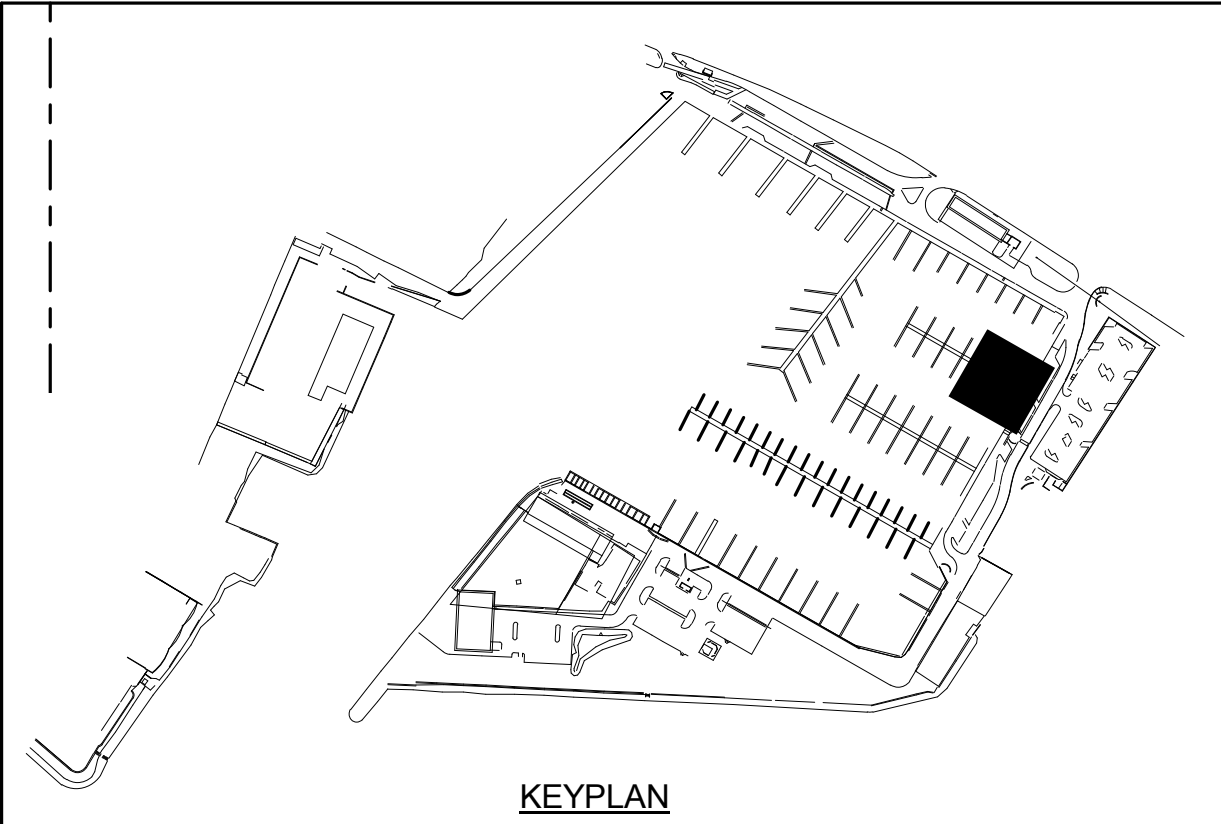
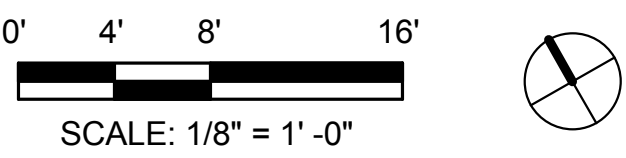
E-102

10/16/2015 6:07:30 PM



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
3X5 HH	3X5 HANDHOLE, 7" WALL, WITH LIGHT TRAFFIC RATED COVER. SIMILAR TO HECO #101021
5	EXISTING LIGHT POLE AND 250W HPS LUMINAIRE. REPLAMP WITH LED LAMP, 4000K. CLEAN INSIDE AND OUTSIDE OF REFRACTOR
DB50	DOCK BOX WITH "HARBOR MATE". 50 A, 125/250V OUTLET AND 30 A, 125V OUTLET. SEE SHEET 5/E-001.
HAT	HATTERAS PEDESTAL WITH SINGLE 125V, 20A GROUND FAULT RECEPTACLE.
LH50	LIGHTHOUSE PEDESTAL. 50 A, 125/250 V OUTLET. SEE SHEET DETAIL 3/E-011.
WI-FI	WI-FI ANTENNA AND EQUIPMENT ENCLOSURE FOR CARD READER, GATE LOCK CONTROL AND WI-FI INTERNET FOR SLIPS.

1 PARTIAL PIER "A" ELECTRICAL PLAN
1/8" = 1'-0"



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PARTIAL PIER "A" ELECTRICAL PLAN

DRAWING TITLE

REVISIONS		DESCRIPTION	BY
NO.	DATE		

PROJECT NO. 150172

DRAWN BY: AH

DESIGNED BY: CAC

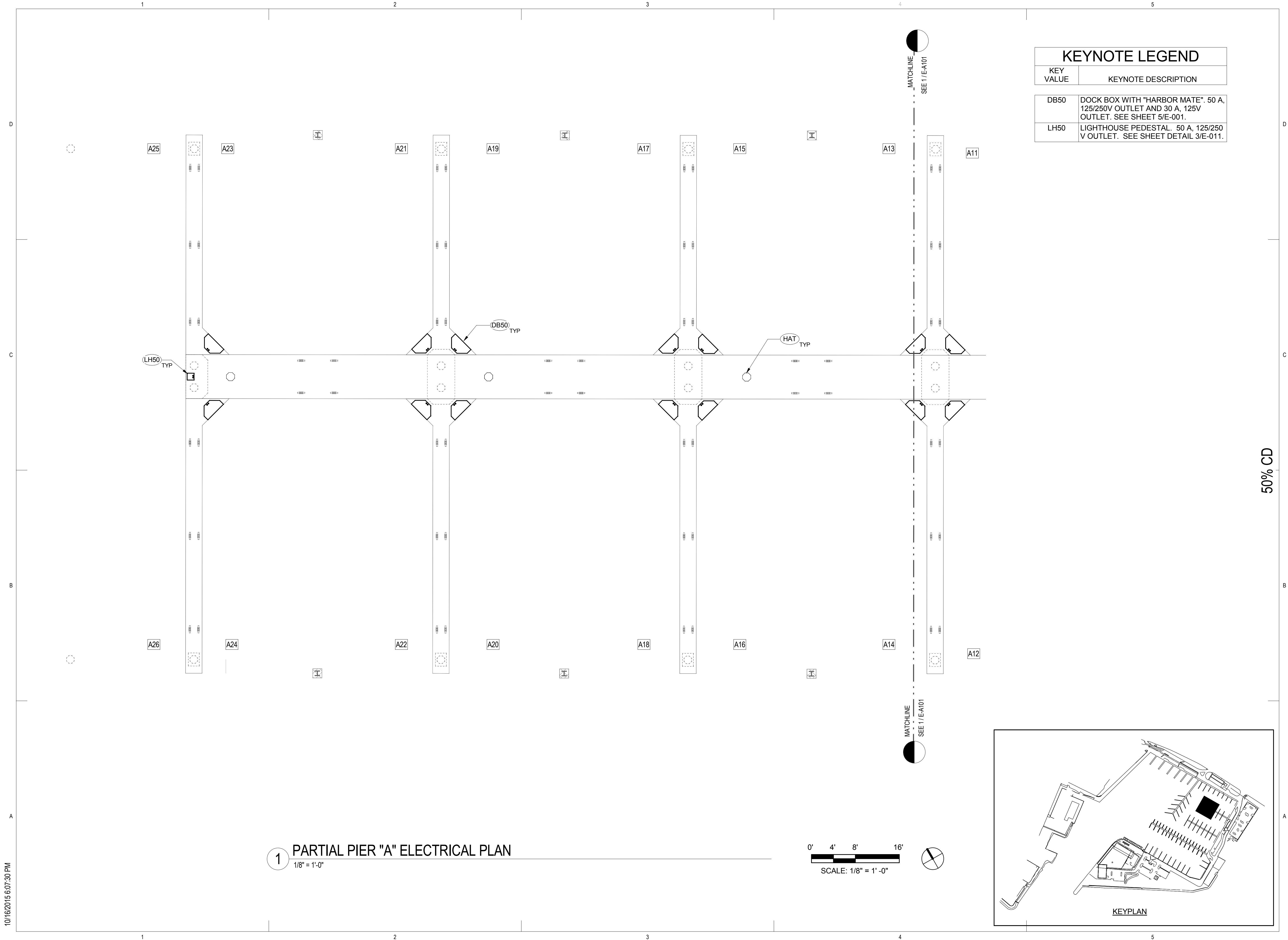
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REVIEWED BY: Approver


DATE 10/09/15

E-A101

10/16/2015 6:07:30 PM



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
DB50	DOCK BOX WITH "HARBOR MATE". 50 A, 125/250V OUTLET AND 30 A, 125V OUTLET. SEE SHEET 5/E-001.
LH50	LIGHTHOUSE PEDESTAL. 50 A, 125/250 V OUTLET. SEE SHEET DETAIL 3/E-011.



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PARTIAL PIER "A" ELECTRICAL PLAN

REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO. 150172

DRAWN BY: AH

DESIGNED BY: CAC

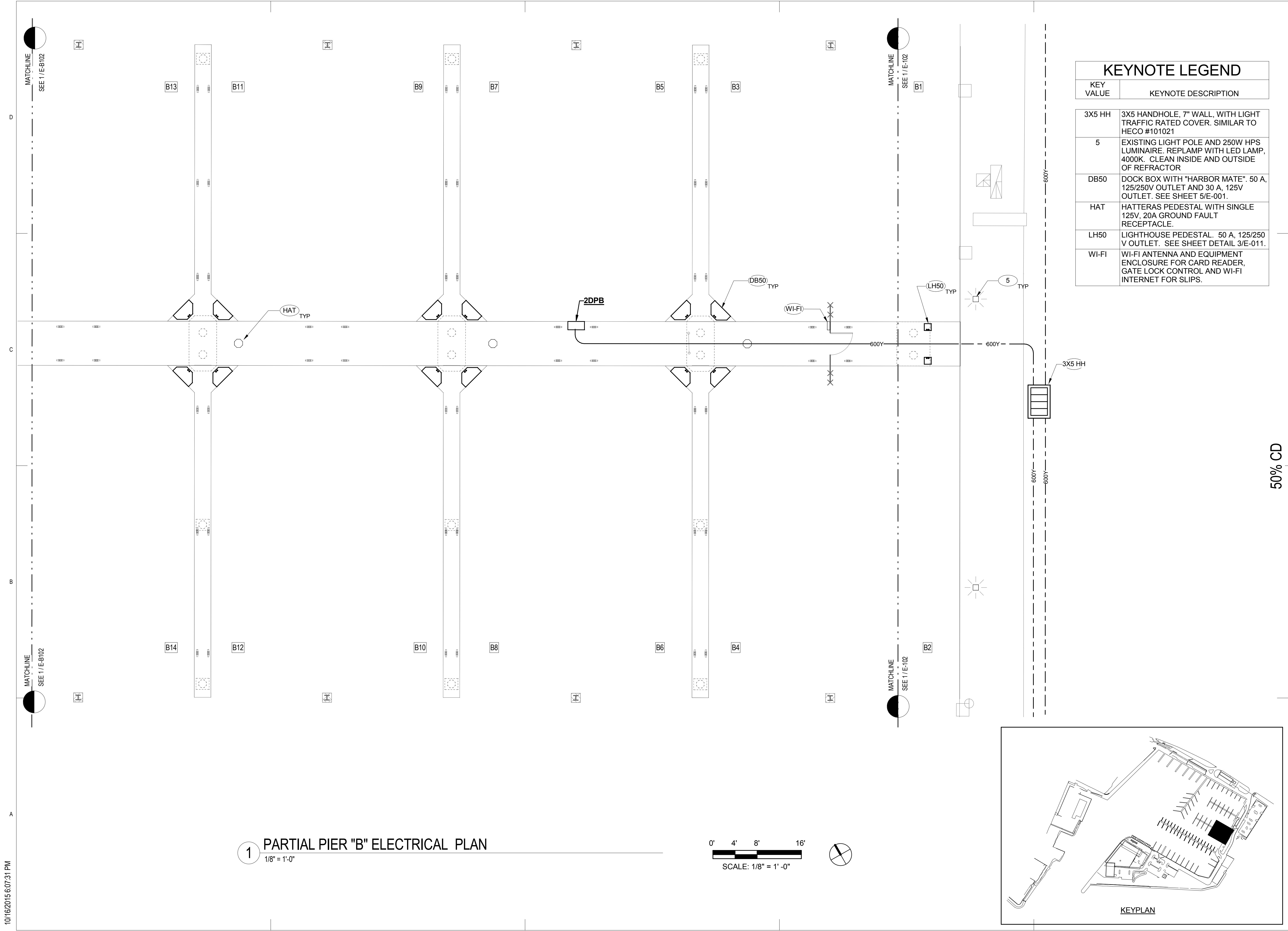
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DATE 10/09/15

E-A102

10/16/2015 6:07:31 PM



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
3X5 HH	3X5 HANDHOLE, 7" WALL, WITH LIGHT TRAFFIC RATED COVER. SIMILAR TO HECO #101021
5	EXISTING LIGHT POLE AND 250W HPS LUMINAIRE. REPLAMP WITH LED LAMP, 4000K. CLEAN INSIDE AND OUTSIDE OF REFRACTOR
DB50	DOCK BOX WITH "HARBOR MATE". 50 A, 125/250V OUTLET AND 30 A, 125V OUTLET. SEE SHEET 5/E-001.
HAT	HATTERAS PEDESTAL WITH SINGLE 125V, 20A GROUND FAULT RECEPTACLE.
LH50	LIGHTHOUSE PEDESTAL. 50 A, 125/250 V OUTLET. SEE SHEET DETAIL 3/E-011.
WI-FI	WI-FI ANTENNA AND EQUIPMENT ENCLOSURE FOR CARD READER, GATE LOCK CONTROL AND WI-FI INTERNET FOR SLIPS.

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PARTIAL PIER "B" ELECTRICAL PLAN

NO.	DATE	DESCRIPTION	BY

PROJECT NO. 150172

DRAWN BY: AH

DESIGNED BY: CAC

CHECKED BY: PB

REVIEWED BY: Approver

DATE 10/09/15

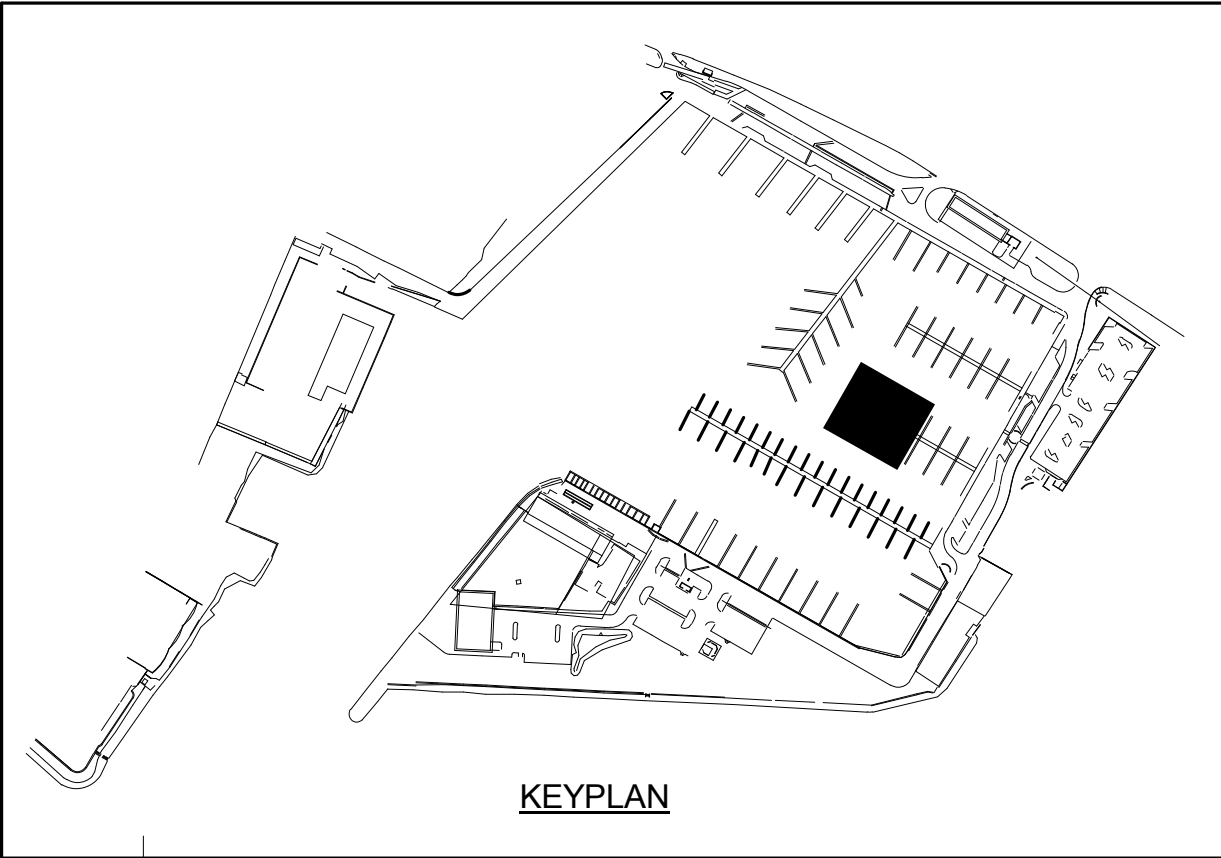
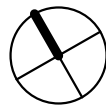
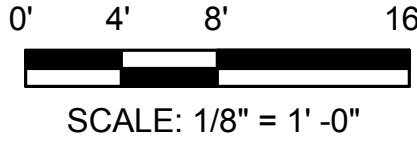
E-B101

10/16/2015 6:07:31 PM

1

PARTIAL PIER "B" ELECTRICAL PLAN

1/8" = 1'-0"



KEYPLAN

KEYNOTE LEGEND

KEY VALUE	KEYNOTE DESCRIPTION
DB50	DOCK BOX WITH "HARBOR MATE". 50 A, 125/250V OUTLET AND 30 A, 125V OUTLET. SEE SHEET 5/E-001.
HAT	HATTERAS PEDESTAL WITH SINGLE 125V, 20A GROUND FAULT RECEPTACLE.

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PARTIAL PIER "B" ELECTRICAL PLAN

REVISIONS		BY
NO.	DATE	DESCRIPTION

PROJECT NO.

150172

DRAWN BY:

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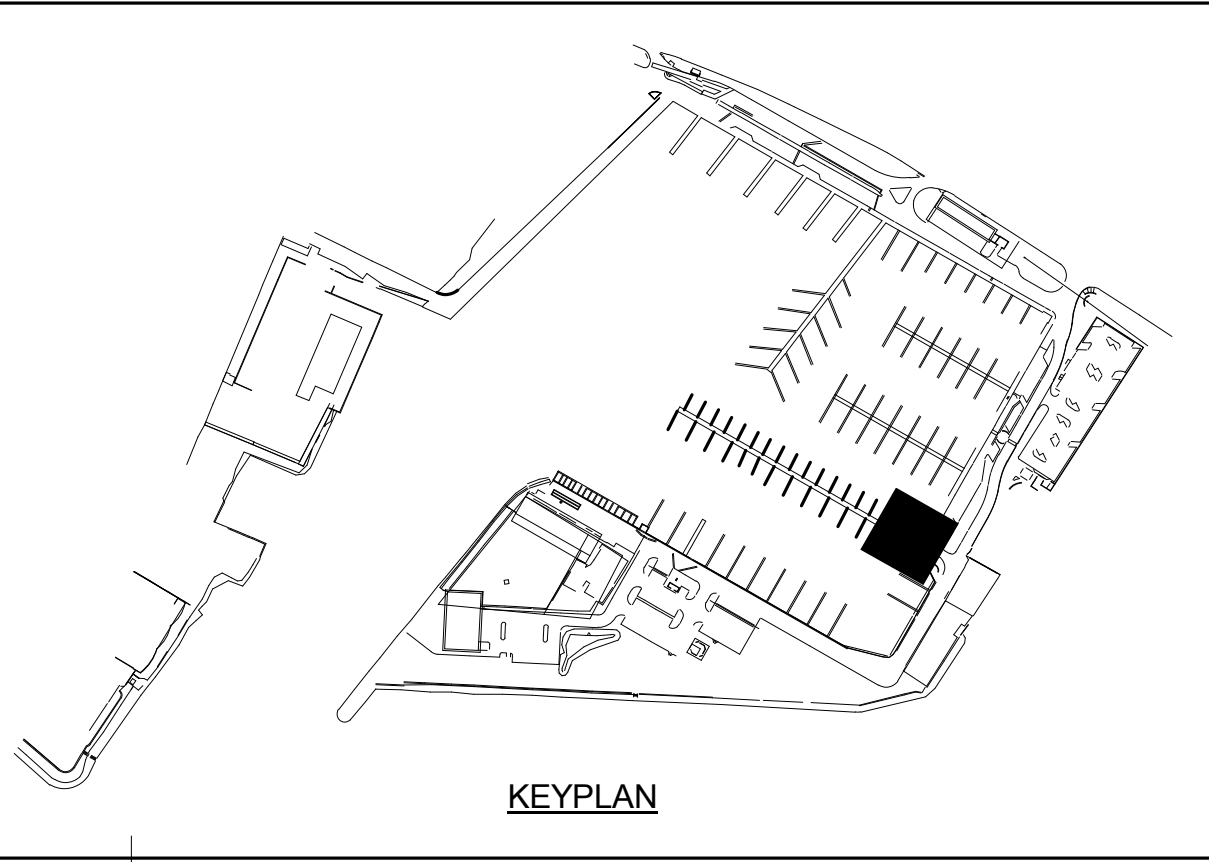
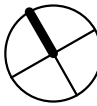
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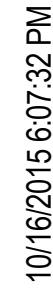
E-B102

KEYPLAN

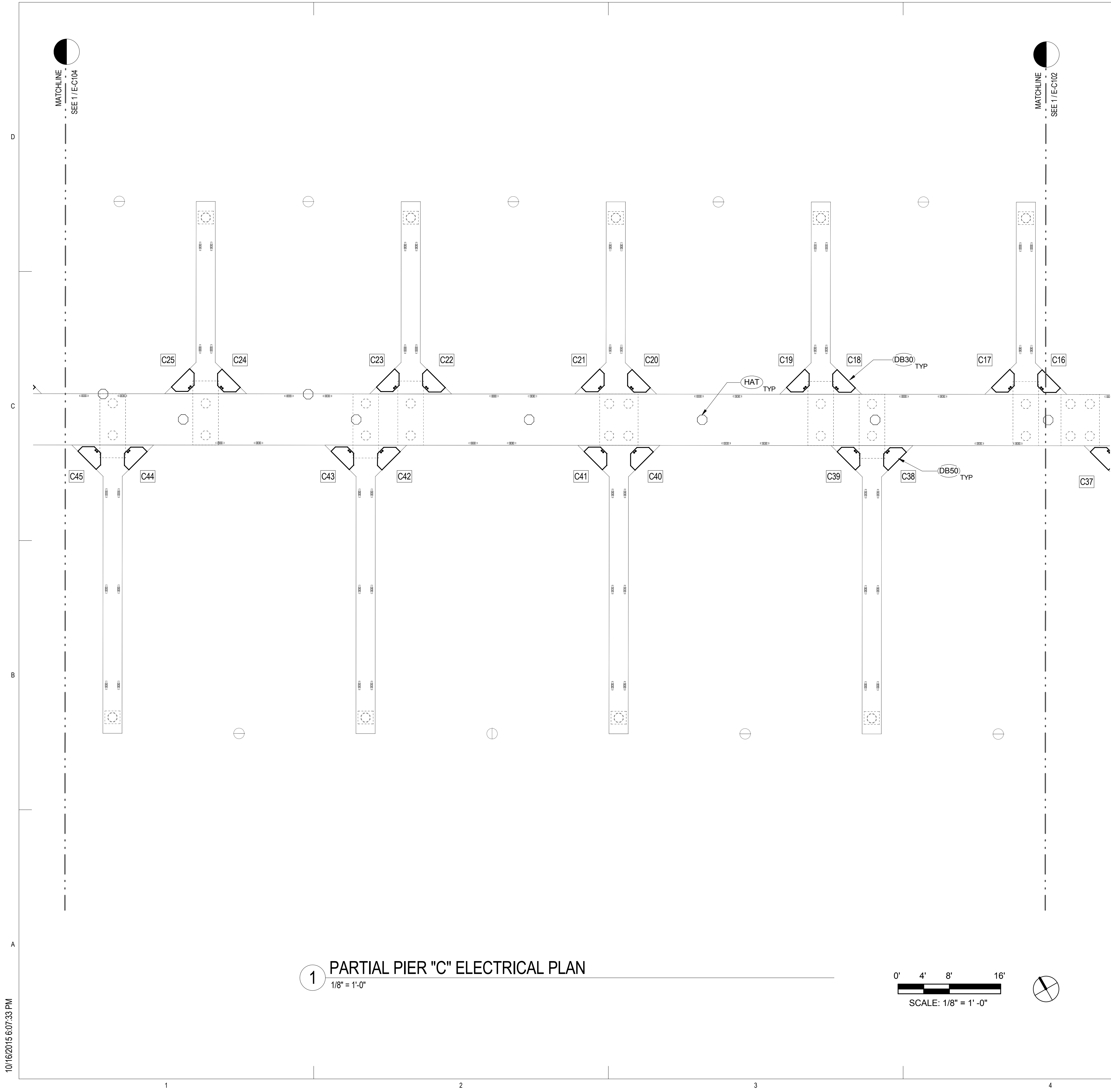
E-C101



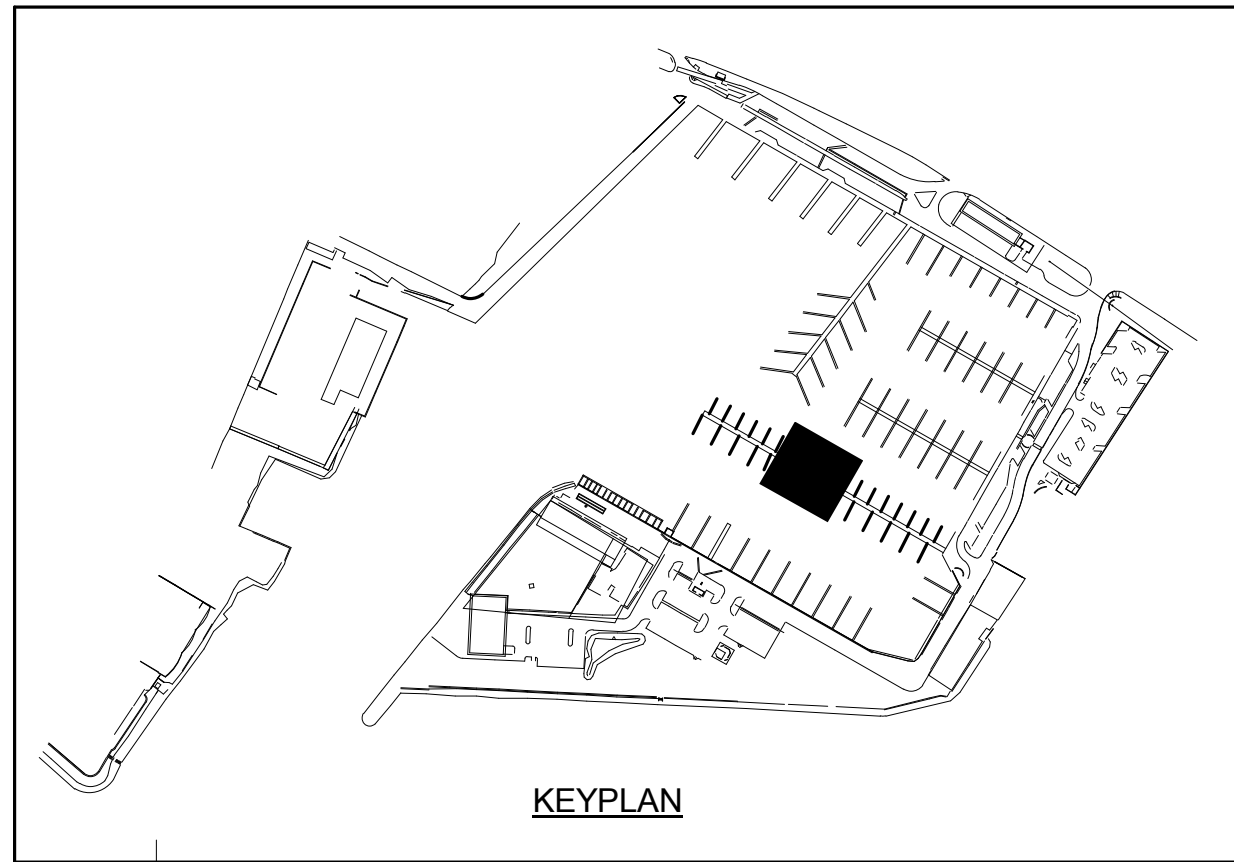
A detailed keyplan of the site. The plan shows an existing building on the left, a new building (shaded black) in the center, and a large parking area to the right. The parking area is divided into several sections, with a central section labeled 'PARKING'. The plan also shows the surrounding roads and the proposed development boundary.

E-C102

10/16/2015 6:07:33 PM



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
DB30	DOCK BOX WITH "HARBOR MATE". 30 A, 125V OUTLET. SEE SHEET 5/E-001.
DB50	DOCK BOX WITH "HARBOR MATE". 50 A, 125/250V OUTLET AND 30 A, 125V OUTLET. SEE SHEET 5/E-001.
HAT	HATTERAS PEDESTAL WITH SINGLE 125V, 20A GROUND FAULT RECEPTACLE.



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DRAWING TITLE

PARTIAL PIER "C" ELECTRICAL PLAN

REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO. 150172

DRAWN BY: AH

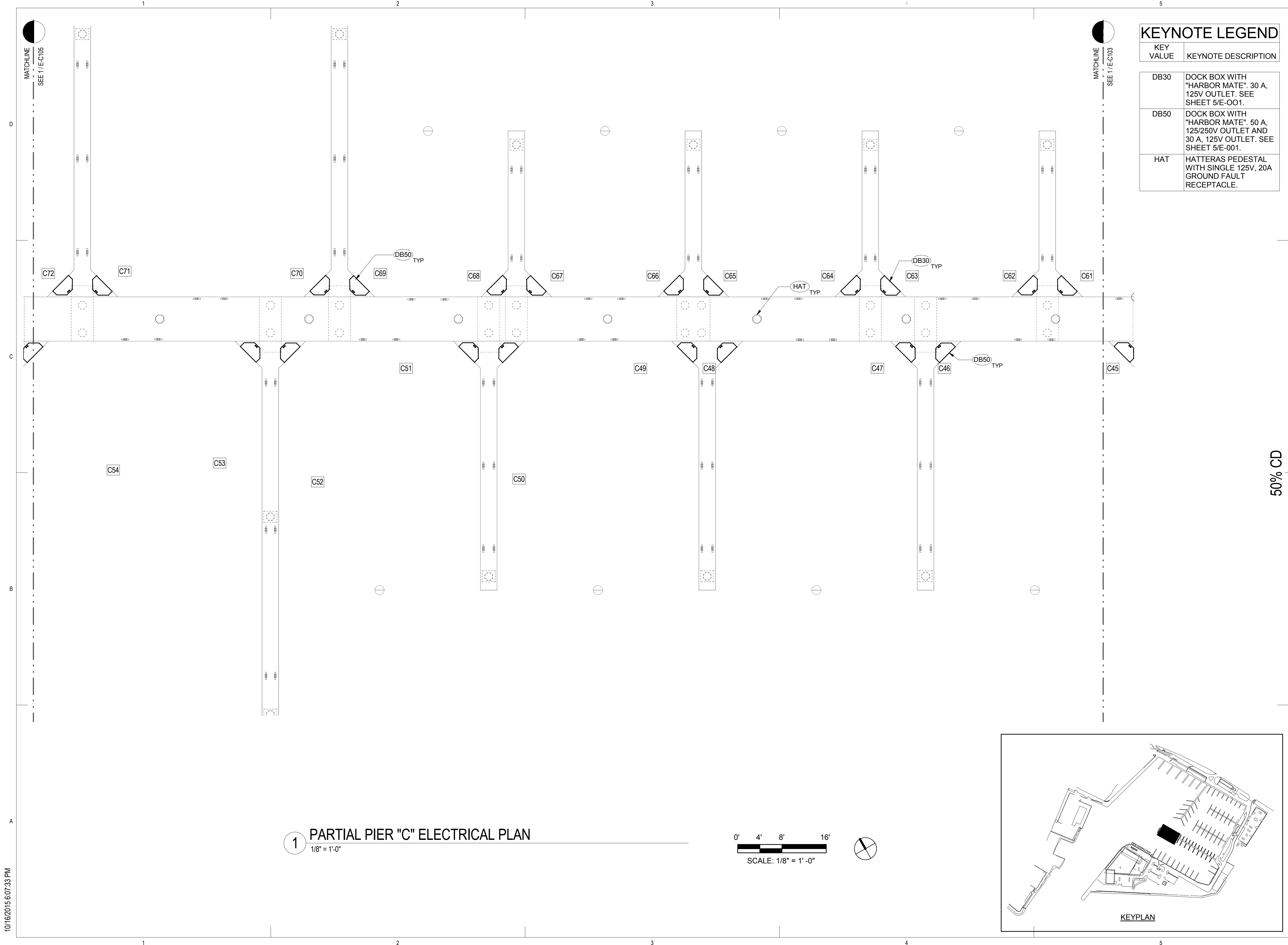
DESIGNED BY: CAC

CHECKED BY: PB

REVIEWED BY: Approver

DATE 10/09/15

E-C103



KEYNOTE LEGEND

KEY VALUE	KEYNOTE DESCRIPTION
DB30	DOCK BOX WITH "HARBOR MATE". 30 A, 125V OUTLET. SEE SHEET 5/E-001.
DB50	DOCK BOX WITH "HARBOR MATE". 50 A, 125/250V OUTLET AND 30 A, 125V OUTLET. SEE SHEET 5/E-001.
HAT	HATTERAS PEDESTAL WITH SINGLE 125V, 20A GROUND FAULT RECEPTACLE.

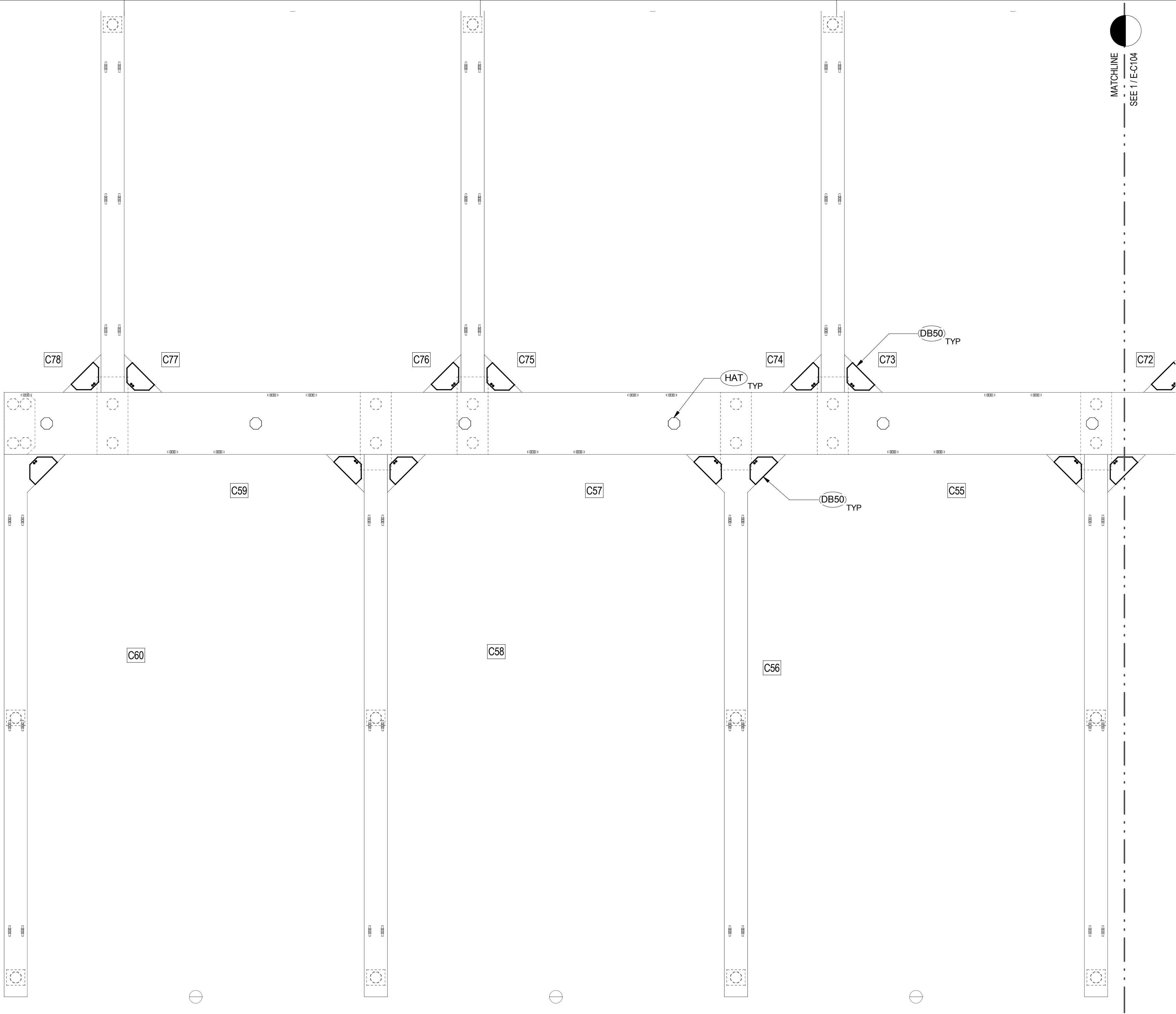
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PARTIAL PIER "C" ELECTRICAL PLAN

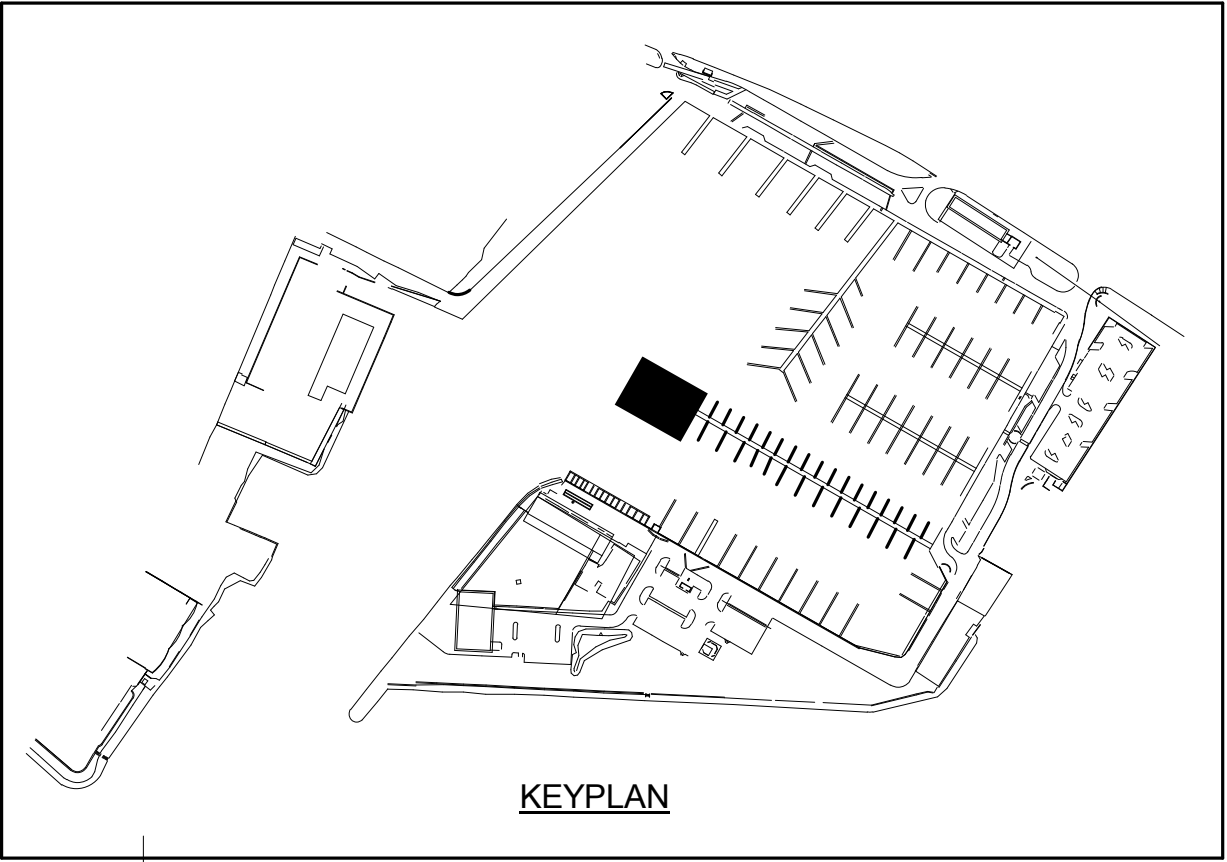
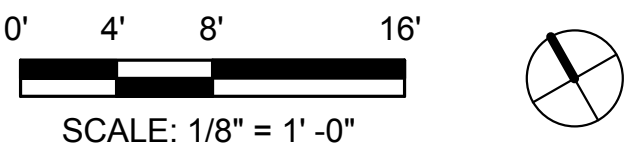
REVISIONS		NO.	DATE	DESCRIPTION	BY
PROJECT NO.		150172			
DRAWN BY:		AH			
DESIGNED BY:		CAC			
CHECKED BY:		PB			
REVIEWED BY:		Approver			
DATE		10/09/15			

10/16/2015 6:07:34 PM



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
DB50	DOCK BOX WITH "HARBOR MATE". 50 A, 125/250V OUTLET AND 30 A, 125V OUTLET. SEE SHEET 5/E-001.
HAT	HATTERAS PEDESTAL WITH SINGLE 125V, 20A GROUND FAULT RECEPTACLE.

1 PARTIAL PIER "C" ELECTRICAL PLAN
1/8" = 1'-0"



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PARTIAL PIER "C" ELECTRICAL PLAN

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PROJECT NO. 150172

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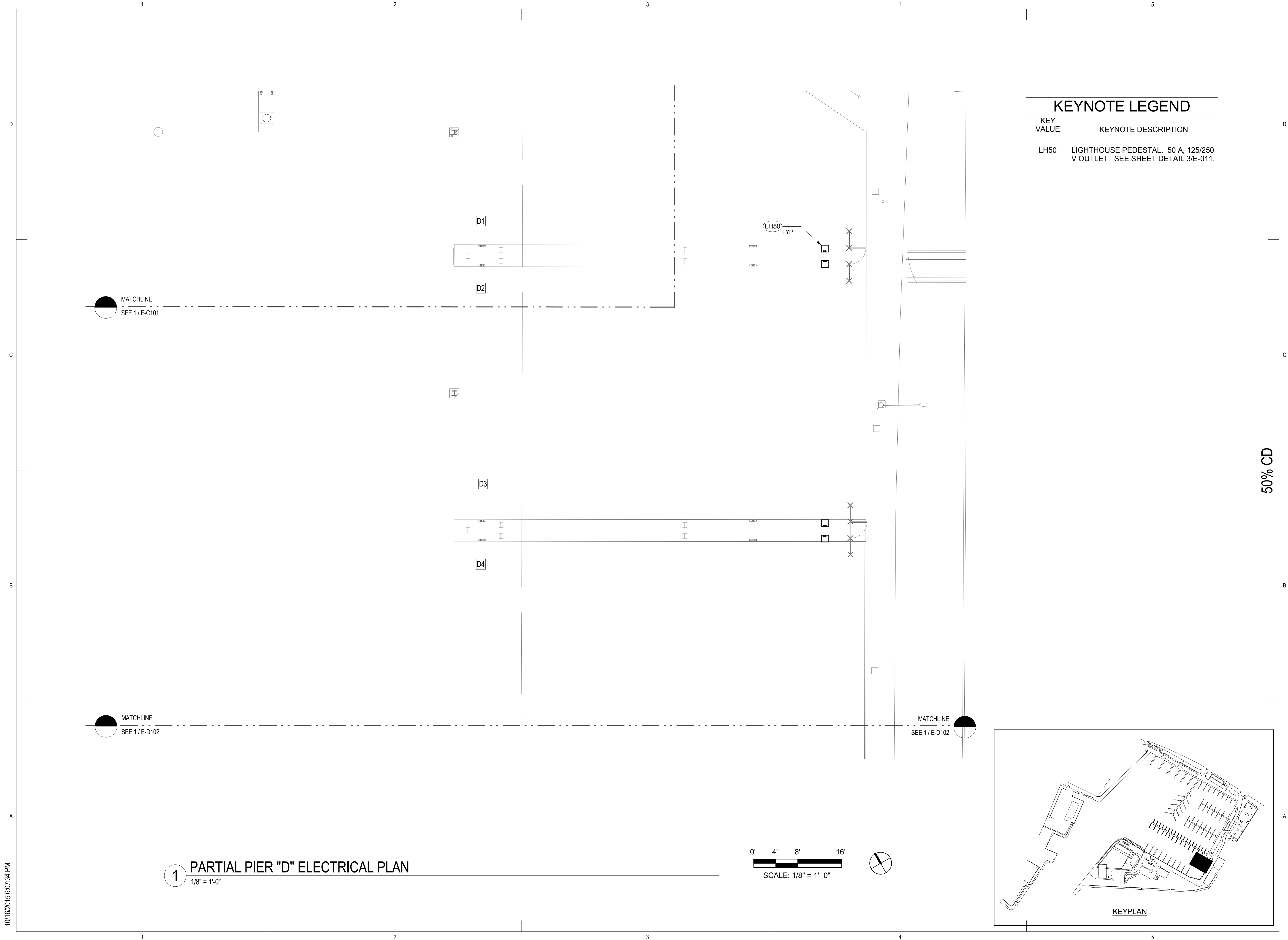
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REVIEWED BY: Approver

DATE 10/09/15

E-C105

10/16/2015 6:07:34 PM



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
LH50	LIGHTHOUSE PEDESTAL. 50 A, 125/250 V OUTLET. SEE SHEET DETAIL 3/E-011.

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PARTIAL PIER "D" ELECTRICAL PLAN

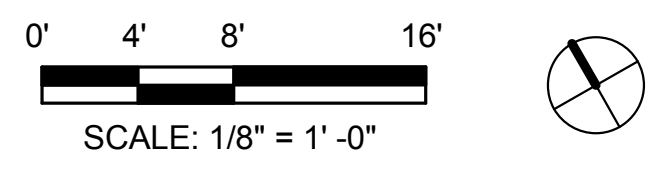
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NO.				
PROJECT NO.	150172			
DRAWN BY:	AH			
DESIGNED BY:	CAC			
CHECKED BY:	PB			
REVIEWED BY:	Approver			
DATE	10/09/15			

E-D101

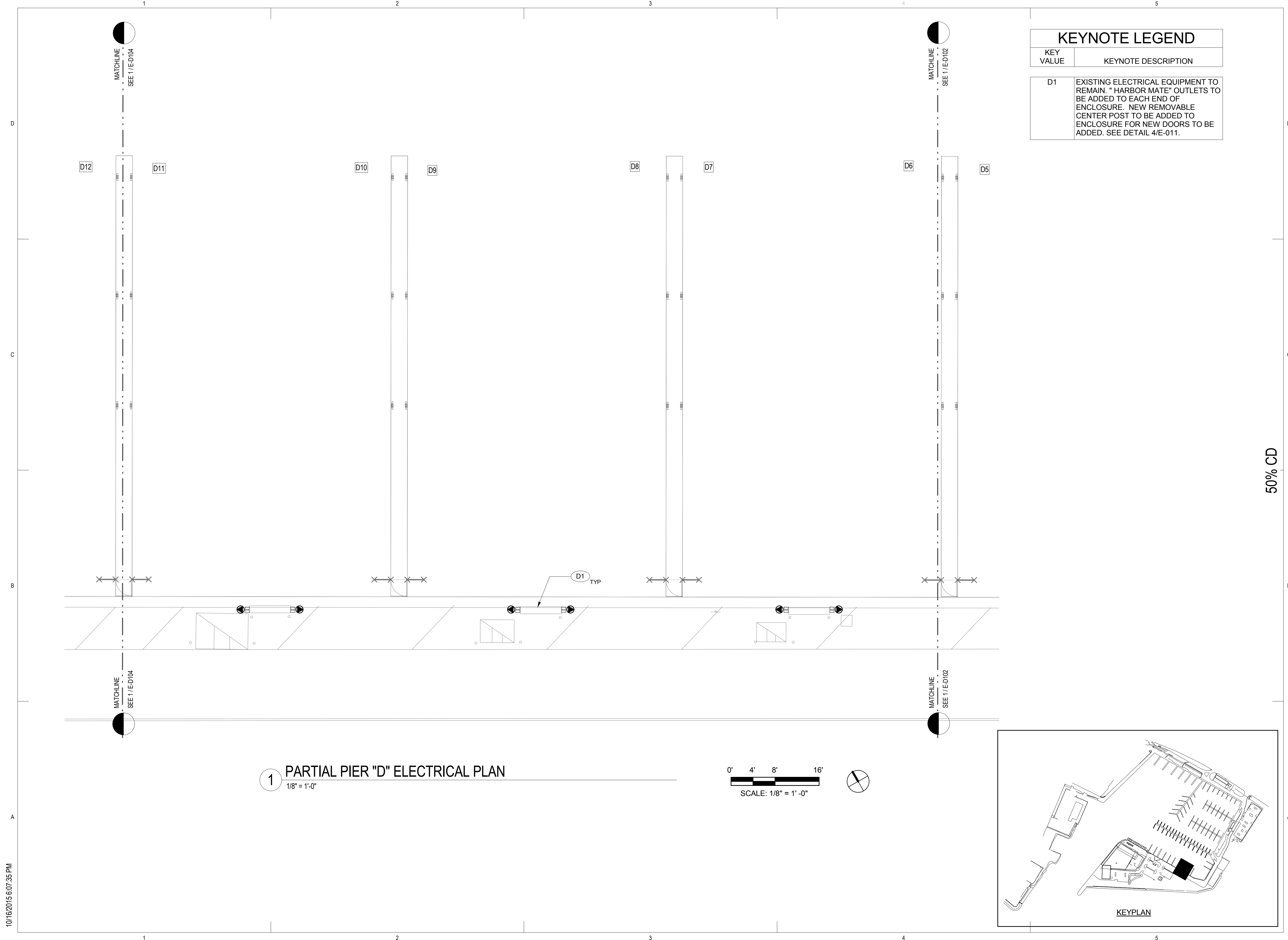
KEWALO BASIN
HARBOR IMPROVEMENTS
HONOLULU HAWAII

DRAWING TITLE

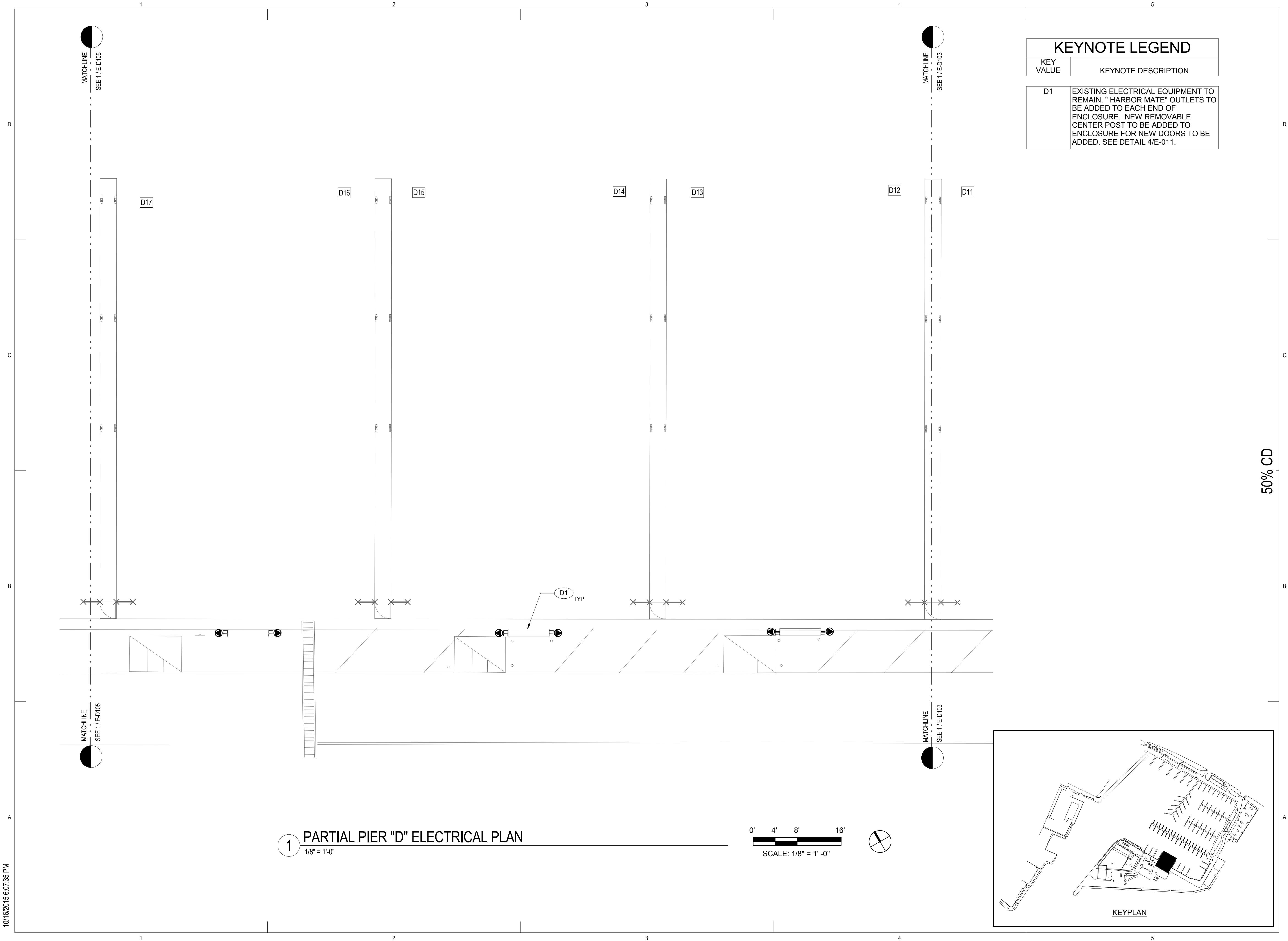
E-D102



<div><div>KEWALO BASIN HARBOR IMPROVEMENTS HONOLULU HAWAII</div><div>PARTIAL PIER "D" ELECTRICAL PLAN</div></div>			
DRAWING TITLE			
PROJECT NO.			
150172			
DRAWN BY:			
AH			
DESIGNED BY:			
CAC			
CHECKED BY:			
PB			
REVIEWED BY:			
Approver			
DATE			
10/09/15			



10/16/2015 6:07:35 PM



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
D1	EXISTING ELECTRICAL EQUIPMENT TO REMAIN. " HARBOR MATE" OUTLETS TO BE ADDED TO EACH END OF ENCLOSURE. NEW REMOVABLE CENTER POST TO BE ADDED TO ENCLOSURE FOR NEW DOORS TO BE ADDED. SEE DETAIL 4/E-011.

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HAWAII

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PARTIAL PIER "D" ELECTRICAL PLAN

REVISIONS	
NO.	DESCRIPTION

PROJECT NO.

150172

DRAWN BY:

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DESIGNED BY:

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CHECKED BY:

PB

REVIEWED BY:

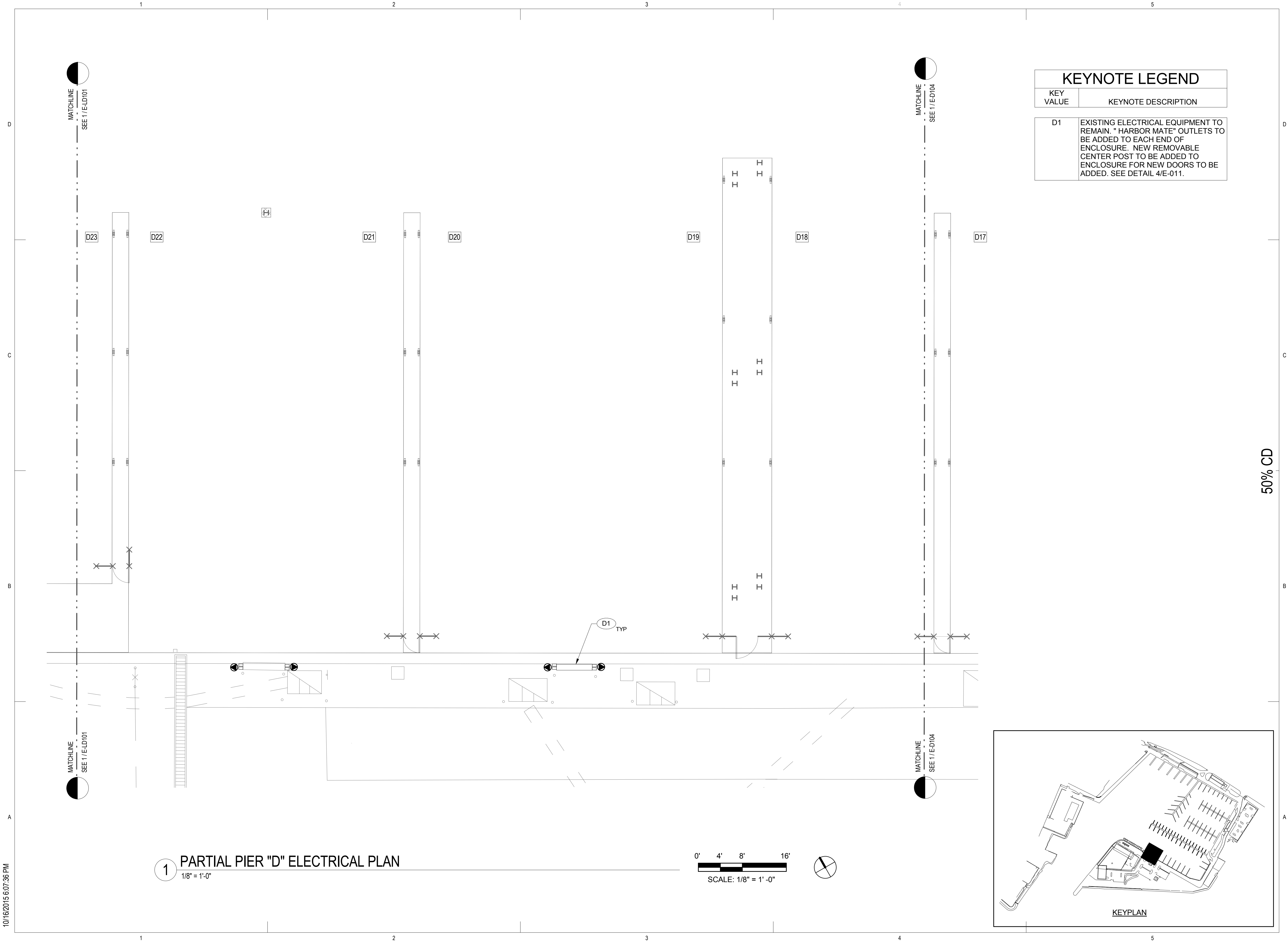
Approver

DATE

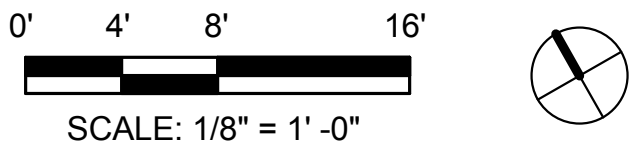
10/09/15

E-D104

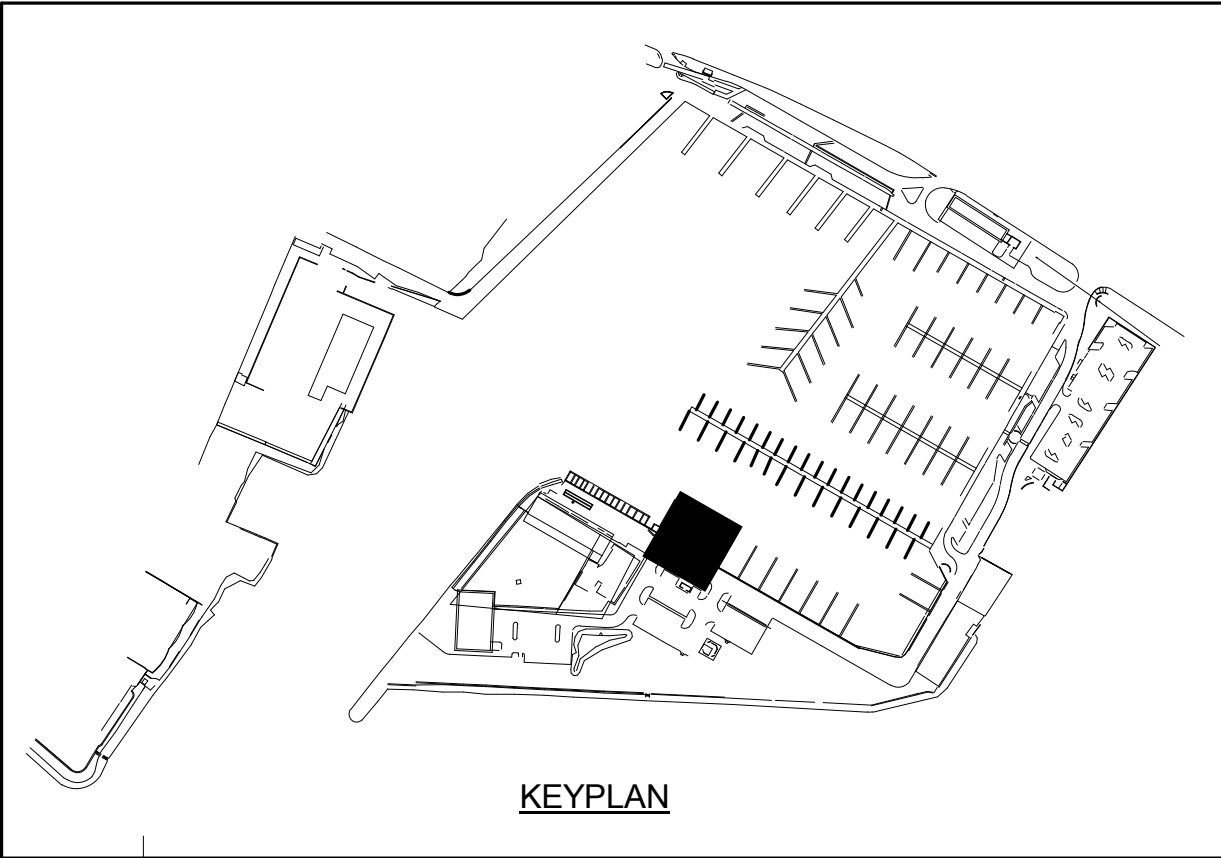
10/16/2015 6:07:36 PM



1 PARTIAL PIER "D" ELECTRICAL PLAN
1/8" = 1'-0"



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
D1	EXISTING ELECTRICAL EQUIPMENT TO REMAIN. " HARBOR MATE" OUTLETS TO BE ADDED TO EACH END OF ENCLOSURE. NEW REMOVABLE CENTER POST TO BE ADDED TO ENCLOSURE FOR NEW DOORS TO BE ADDED. SEE DETAIL 4/E-011.



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DRAWING TITLE

NO.	DATE	DESCRIPTION	BY

PROJECT NO. 150172

DRAWN BY: AH

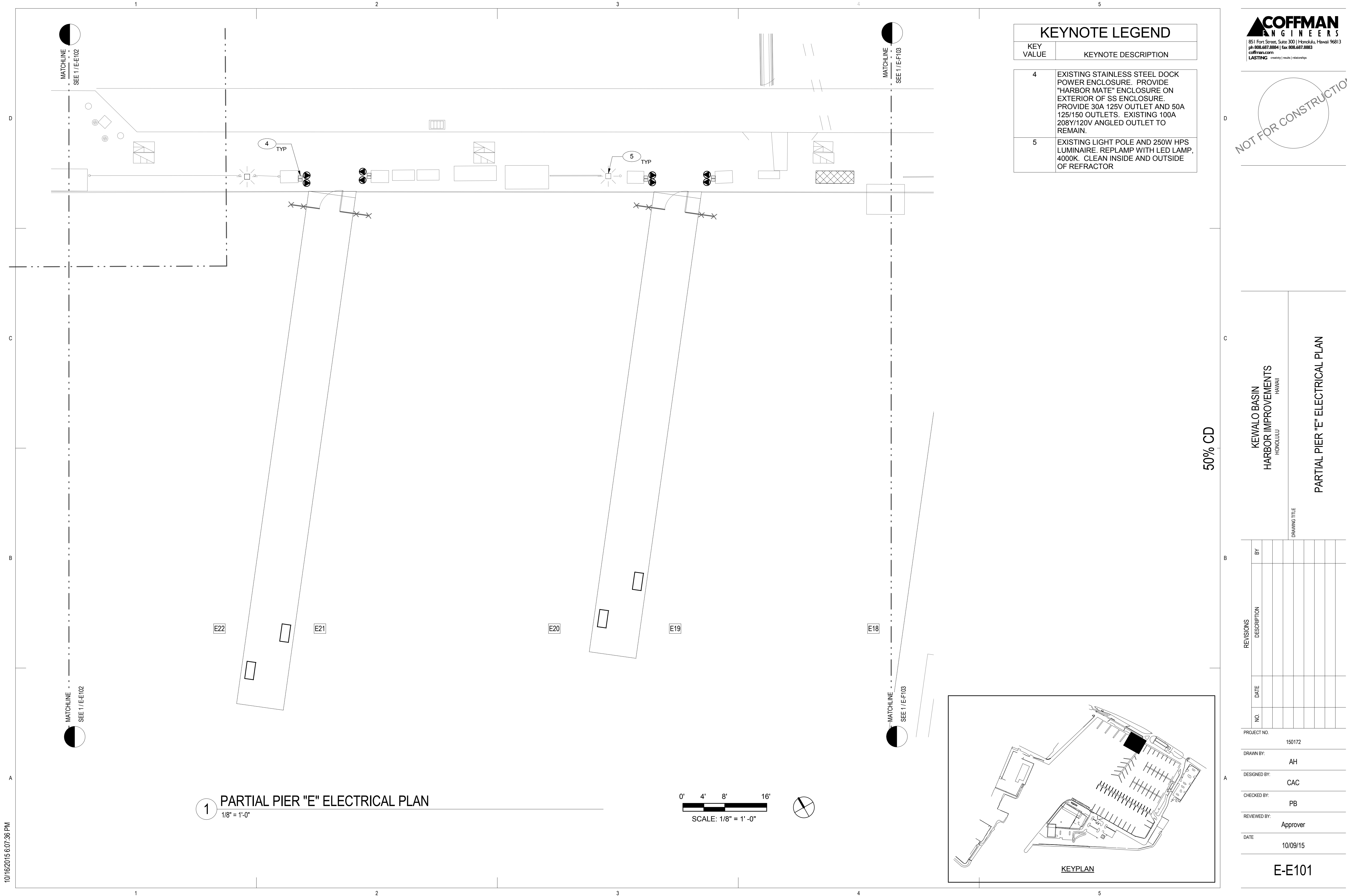
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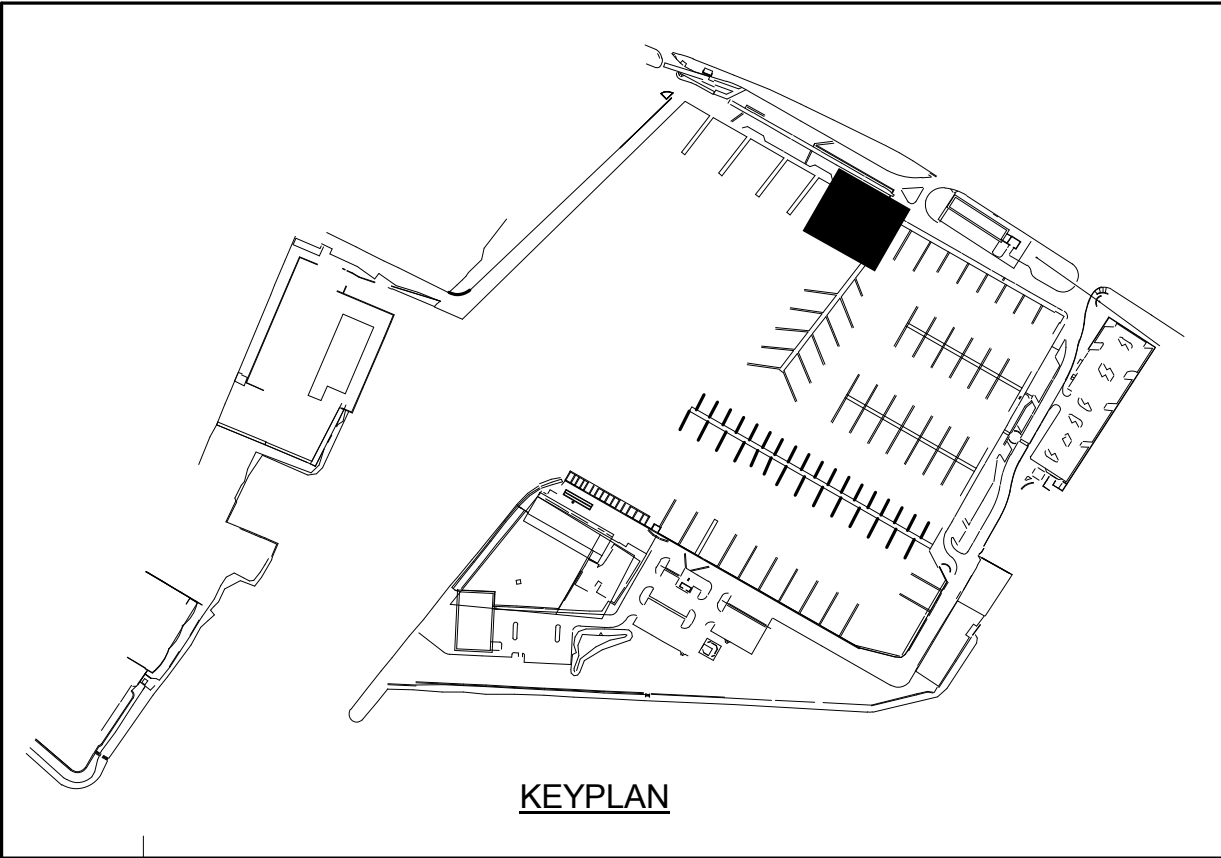
REVIEWED BY: Approver

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E-D105



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
4	EXISTING STAINLESS STEEL DOCK POWER ENCLOSURE. PROVIDE "HARBOR MATE" ENCLOSURE ON EXTERIOR OF SS ENCLOSURE. PROVIDE 30A 125V OUTLET AND 50A 125/150 OUTLETS. EXISTING 100A 208Y/120V ANGLED OUTLET TO REMAIN.
5	EXISTING LIGHT POLE AND 250W HPS LUMINAIRE. REPLAMP WITH LED LAMP, 4000K. CLEAN INSIDE AND OUTSIDE OF REFRACTOR



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PARTIAL PIER "E" ELECTRICAL PLAN

REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO. 150172

DRAWN BY: AH

DESIGNED BY: CAC

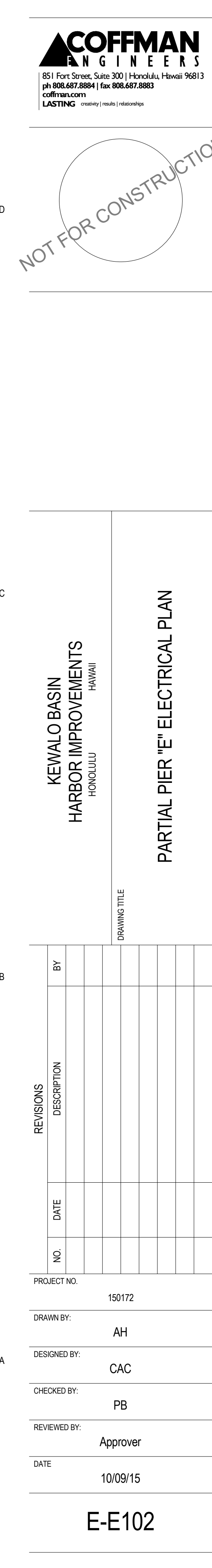
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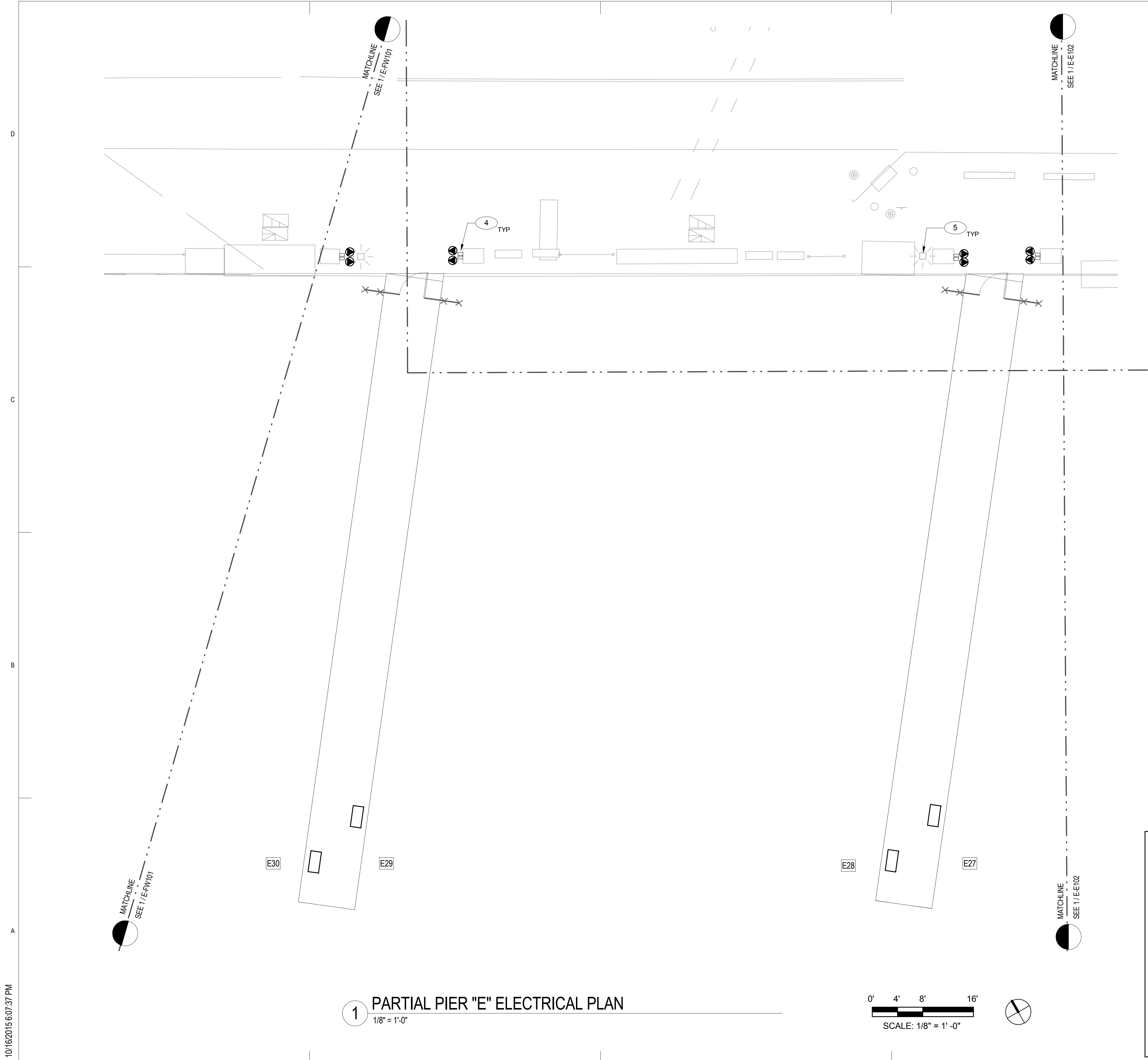
DATE 10/09/15

E-E101

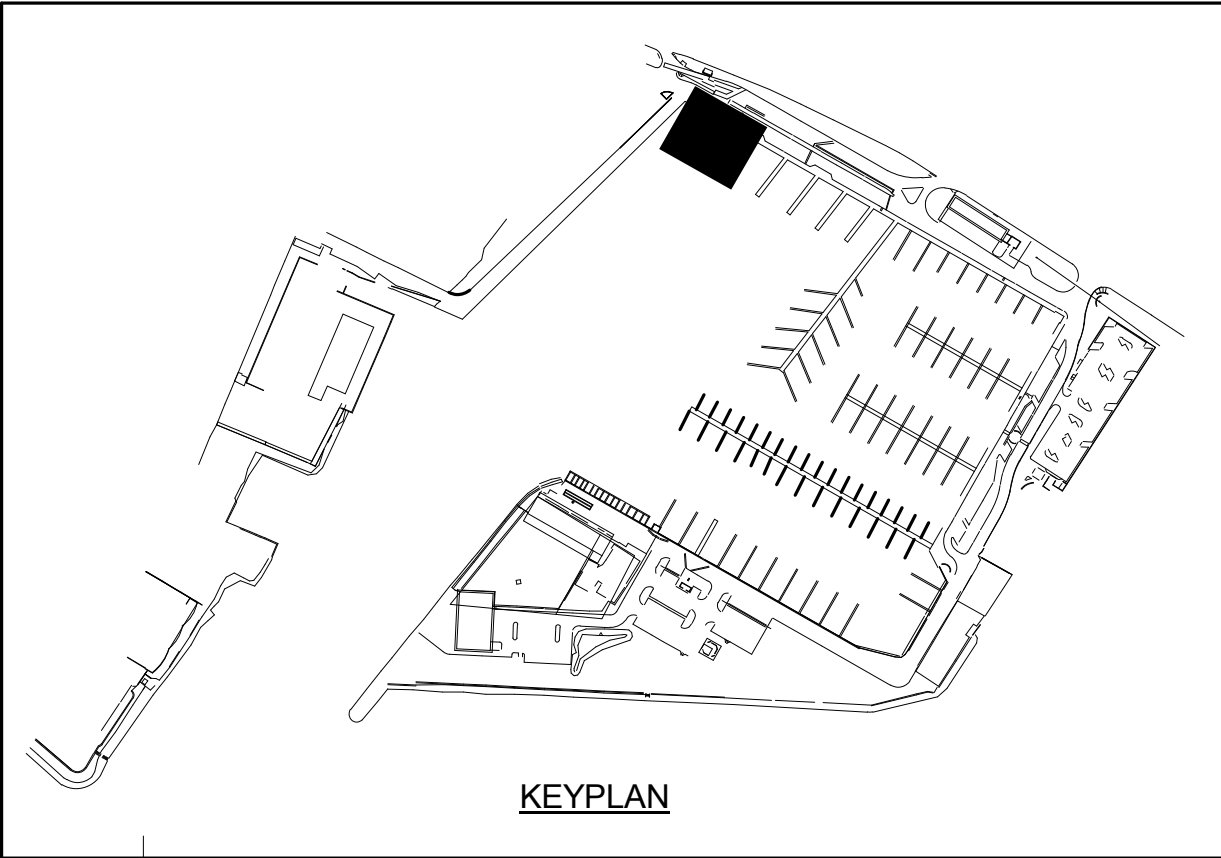
10/16/2015 6:07:36 PM



10/16/2015 6:07:37 PM



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
4	EXISTING STAINLESS STEEL DOCK POWER ENCLOSURE. PROVIDE "HARBOR MATE" ENCLOSURE ON EXTERIOR OF SS ENCLOSURE. PROVIDE 30A 125V OUTLET AND 50A 125/150 OUTLETS. EXISTING 100A 208Y/120V ANGLED OUTLET TO REMAIN.
5	EXISTING LIGHT POLE AND 250W HPS LUMINAIRE. REPLAMP WITH LED LAMP, 4000K. CLEAN INSIDE AND OUTSIDE OF REFRACTOR



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PARTIAL PIER "E" ELECTRICAL PLAN

REVISIONS		BY	DATE	NO.
DESCRIPTION				

PROJECT NO. 150172

DRAWN BY: AH

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CHECKED BY: PB

REVIEWED BY: Approver

DATE 10/09/15

E-E103

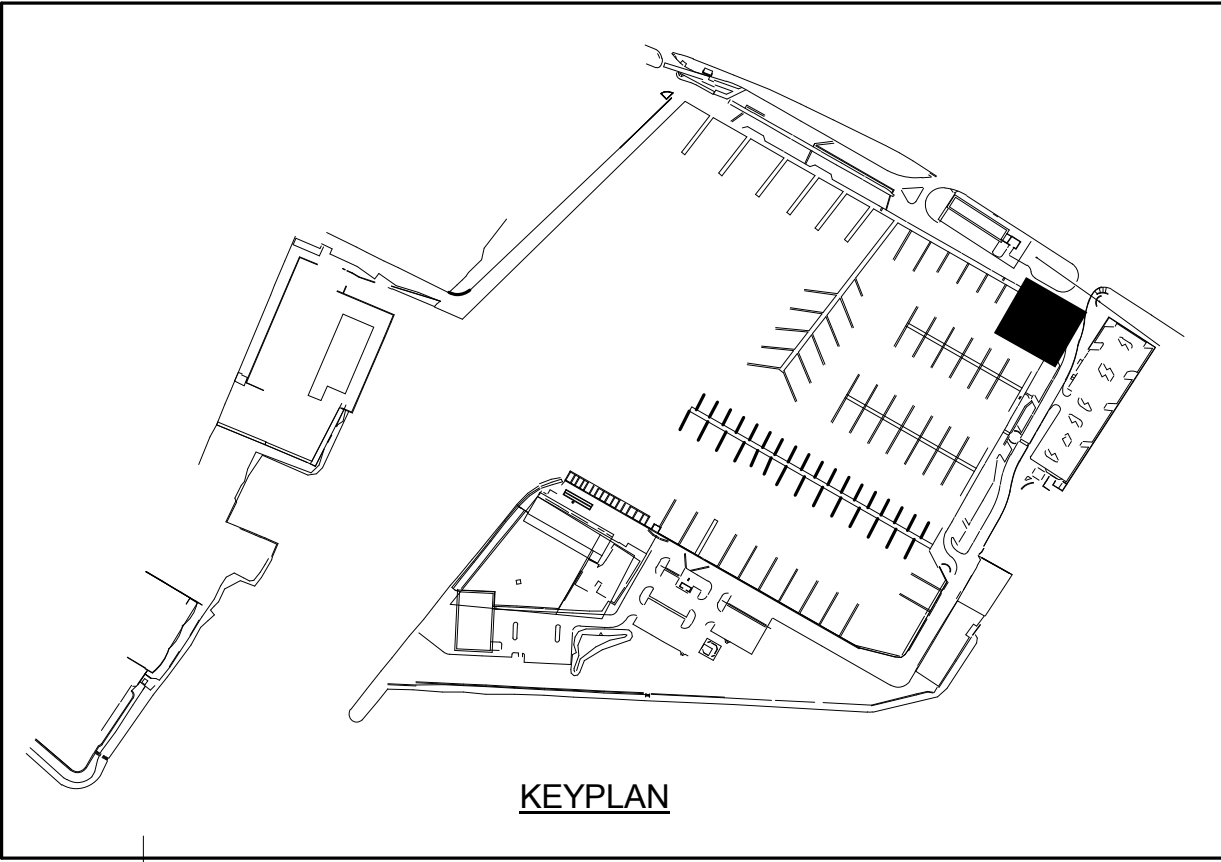
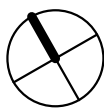
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A
B
C
D

MATCHLINE SEE 1/E-F102
MATCHLINE SEE 1/E-F102

1 PARTIAL PIER "F" ELECTRICAL PLAN
1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1' -0"



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
2	EXISTING POWER PEDESTAL. PROVIDE TWO (2) NEW "HARBOR MATE" ENCLOSURES WITH 30A AND 50A OUTLETS ON CUSTOM ADAPTER PLATE (BOX). SEE 1/E-011.
3	EXISTING POWER PEDESTAL. PROVIDE ONE (1) NEW "HARBOR MATE" ENCLOSURE WITH 30A AND 50A OUTLETS ON CUSTOM ADAPTER PLATE (BOX). (TYP)
5	EXISTING LIGHT POLE AND 250W HPS LUMINAIRE. REPLAMP WITH LED LAMP, 4000K. CLEAN INSIDE AND OUTSIDE OF REFRACTOR

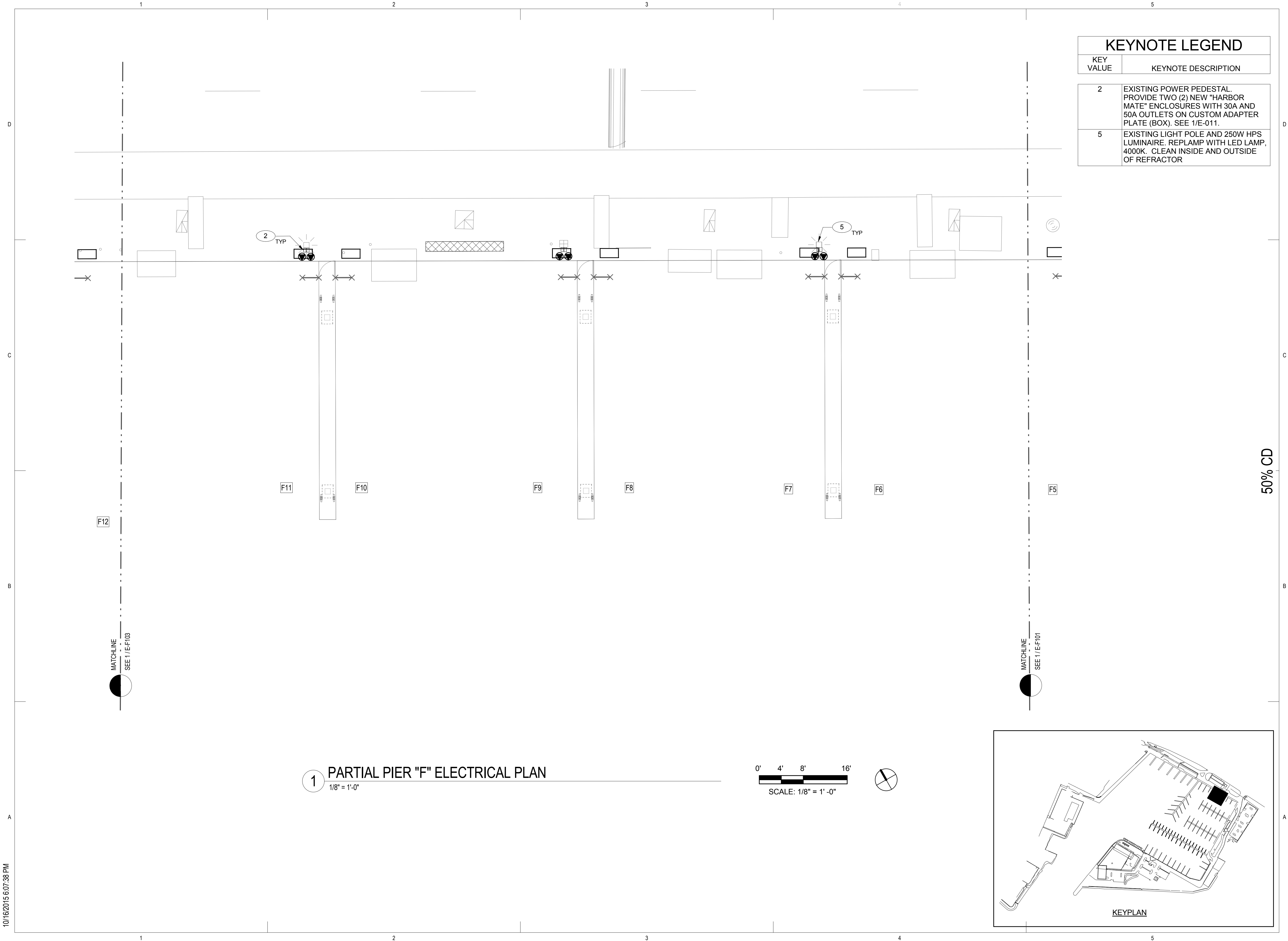
50% CD

REVISIONS		BY		DATE		NO.		PROJECT NO.		DRAWN BY:		DESIGNED BY:		CHECKED BY:		REVIEWED BY:		DATE	
DESCRIPTION								150172		AH		CAC		PB		Approver		10/09/15	

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PARTIAL PIER "F" ELECTRICAL PLAN

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HONOLULU, HAWAII

PARTIAL PIER "F" ELECTRICAL PLAN

REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO. 150172

DRAWN BY: AH

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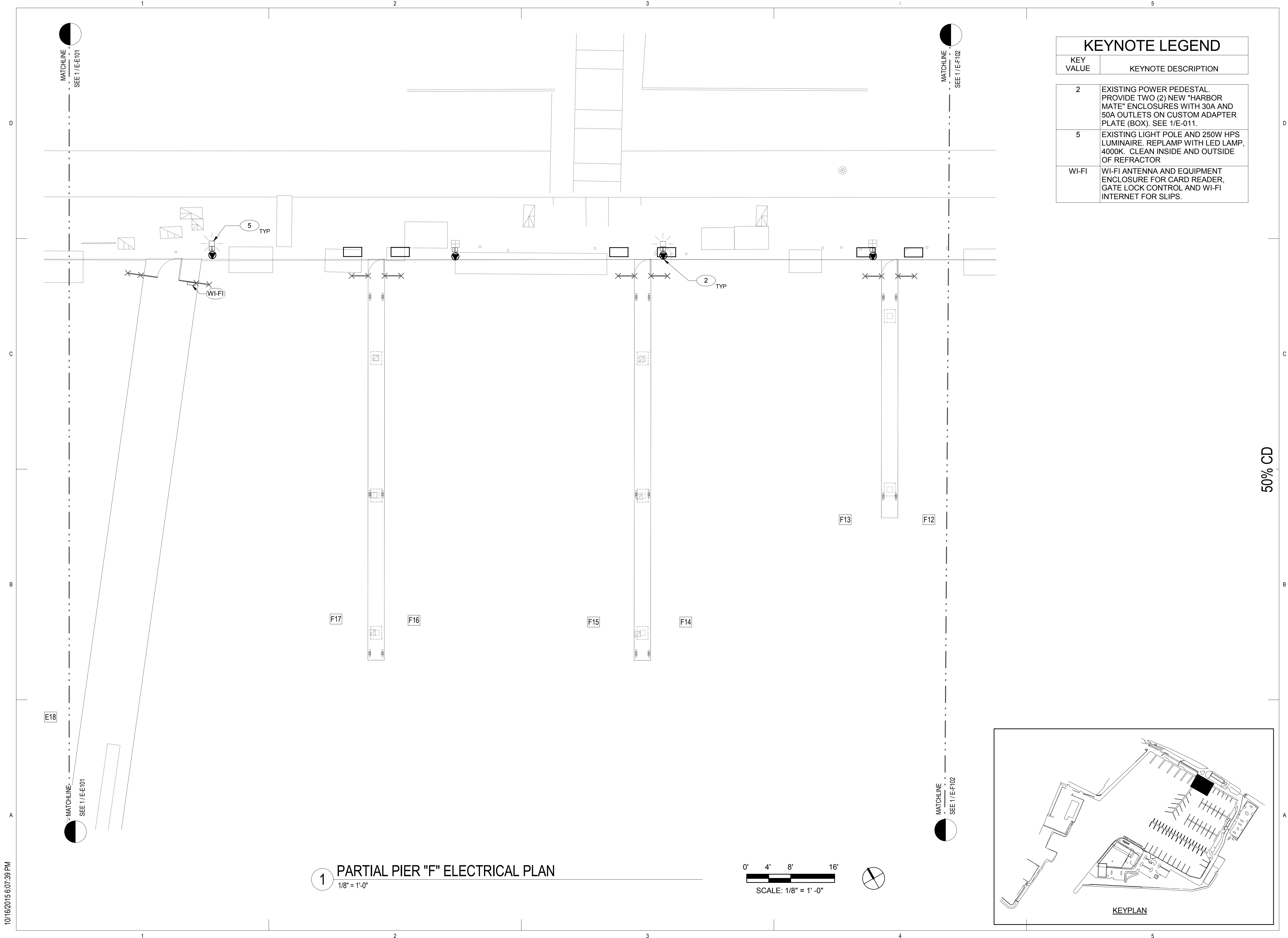
CHECKED BY: PB

REVIEWED BY: Approver

DATE 10/09/15

E-F102

KEYPLAN

E-F103

10/16/2015 6:07:39 PM

A

B

C

D

1

2

3

4

5

MATCHLINE
SEE 1/E-FW102

MATCHLINE
SEE 1/E-FW102

FW1

MATCHLINE
SEE 1/E-E103

FW-HH2

4x6-6
HH TYP

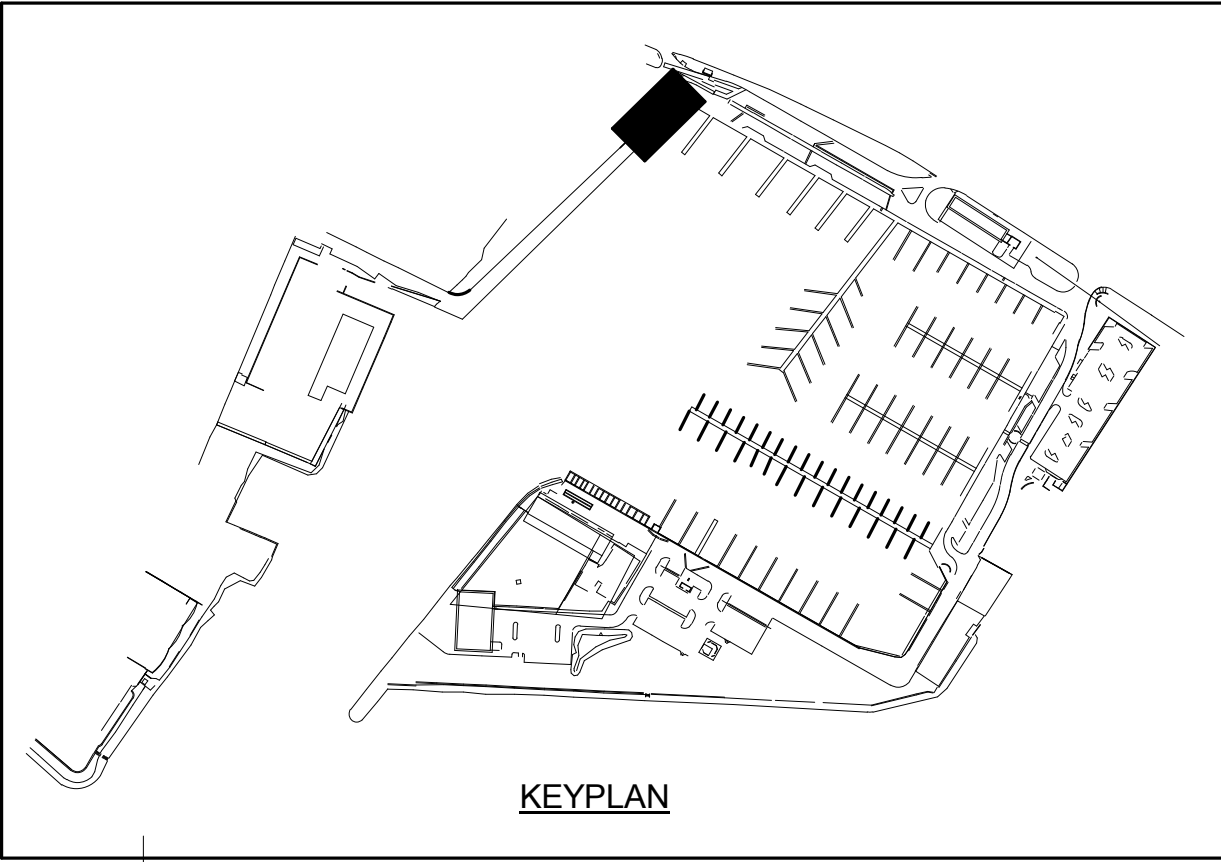
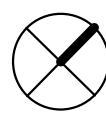
MATCHLINE
SEE 1/E-E103

50% CD

1 PARTIAL PIER "FW" ELECTRICAL PLAN

1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"



KEYPLAN

KEYNOTE LEGEND

KEY VALUE	KEYNOTE DESCRIPTION
4x6-6 HH	4"x6"x6" HANDHOLE WITH TRAFFIC RATED COVER . SEE DETAIL
5	EXISTING LIGHT POLE AND 250W HPS LUMINAIRE. REPLAMP WITH LED LAMP, 4000K. CLEAN INSIDE AND OUTSIDE OF REFRACTOR

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PARTIAL PIER "FW" ELECTRICAL PLAN

DRAWING TITLE

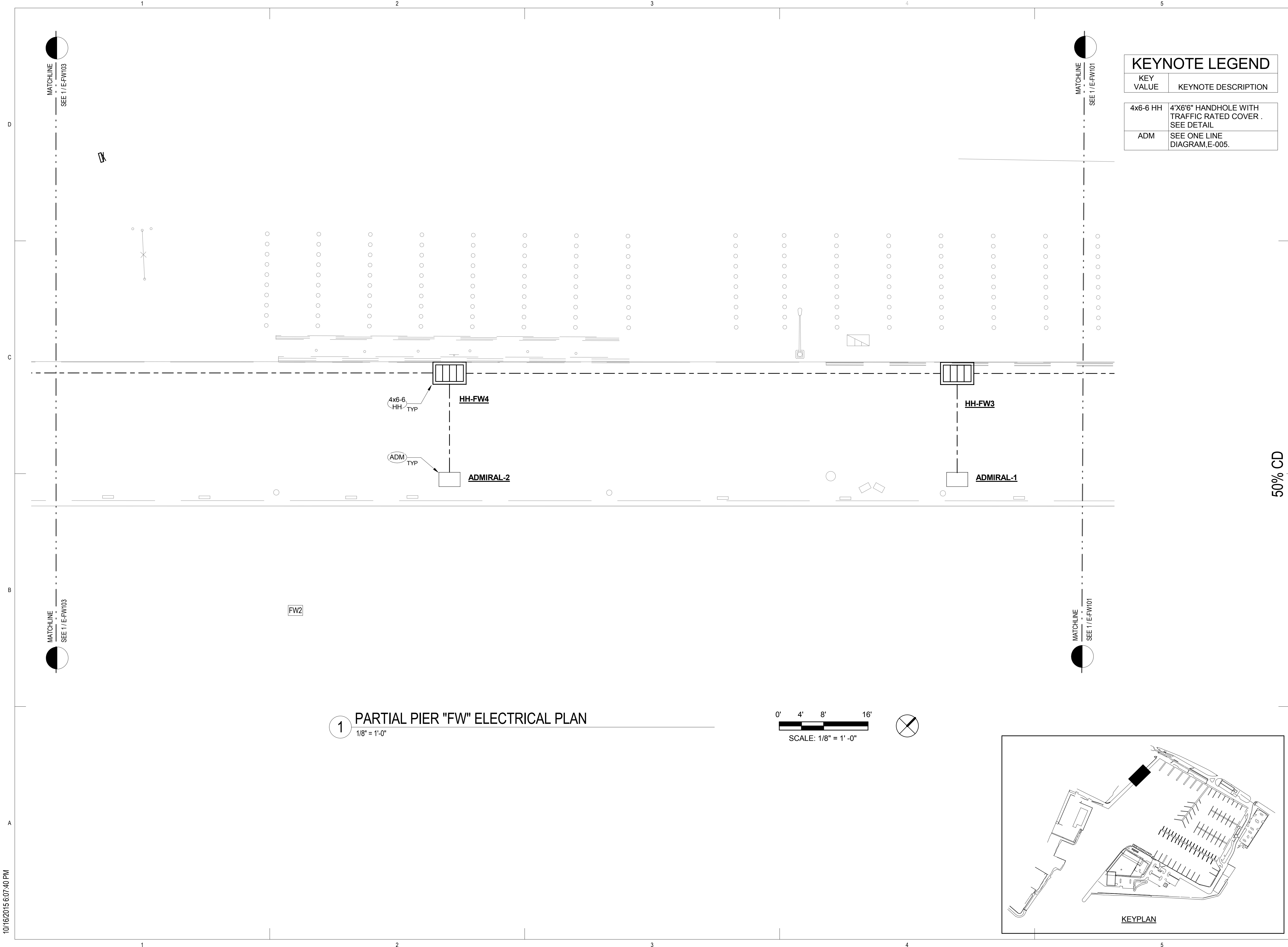
REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO.	150172
DRAWN BY:	AH
DESIGNED BY:	CAC
CHECKED BY:	PB
REVIEWED BY:	Approver
DATE	10/09/15

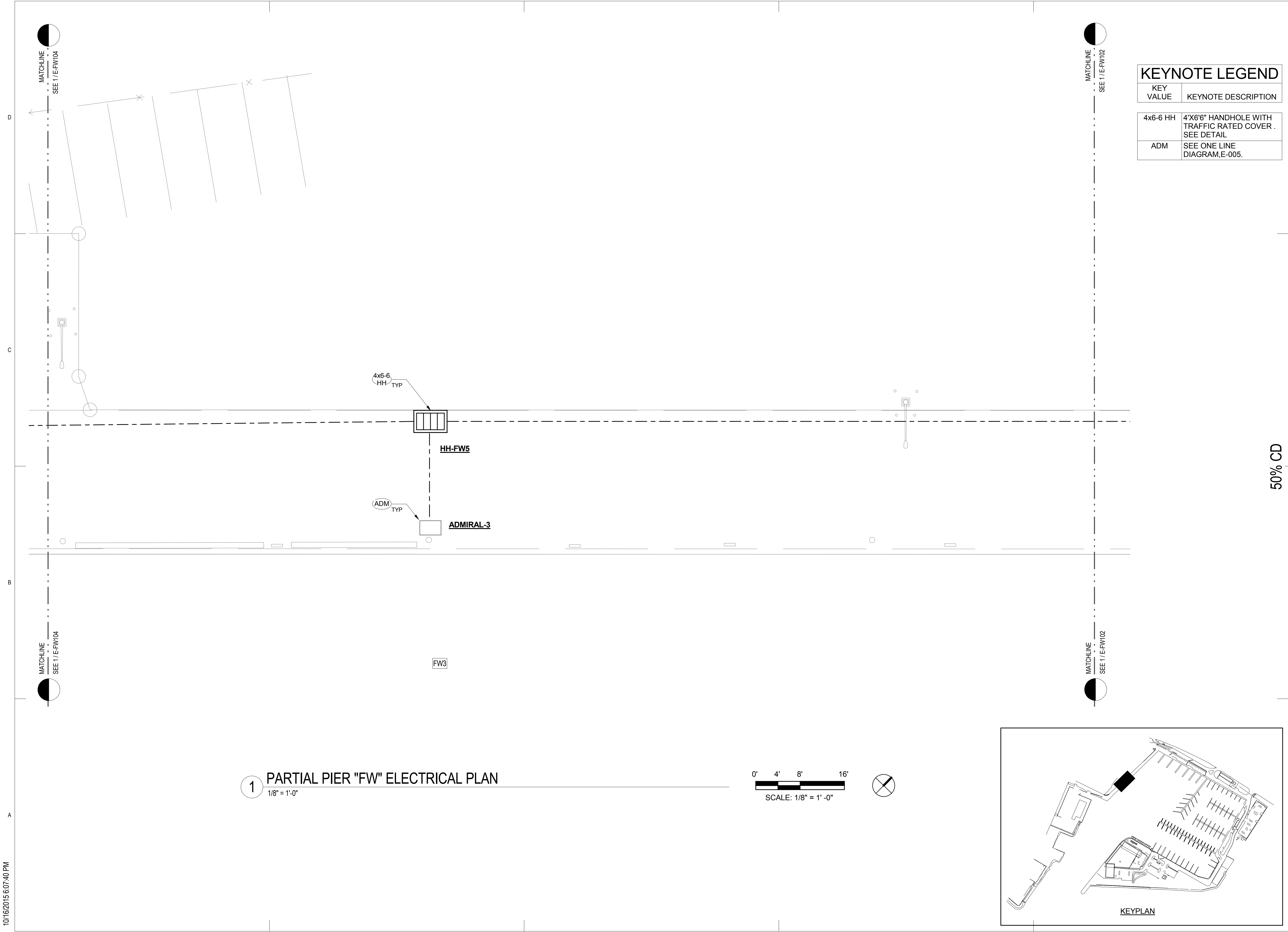
E-FW101

<div><div>KEWALO BASIN HARBOR IMPROVEMENTS HONOLULU HAWAII</div><div>PARTIAL PIER "FW" ELECTRICAL PLAN</div></div>			
DRAWING TITLE			
PROJECT NO.			
150172			
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AH			
DESIGNED BY:			
CAC			
CHECKED BY:			
PB			
REVIEWED BY:			
Approver			
DATE			
10/09/15			

10/16/2015 6:07:40 PM



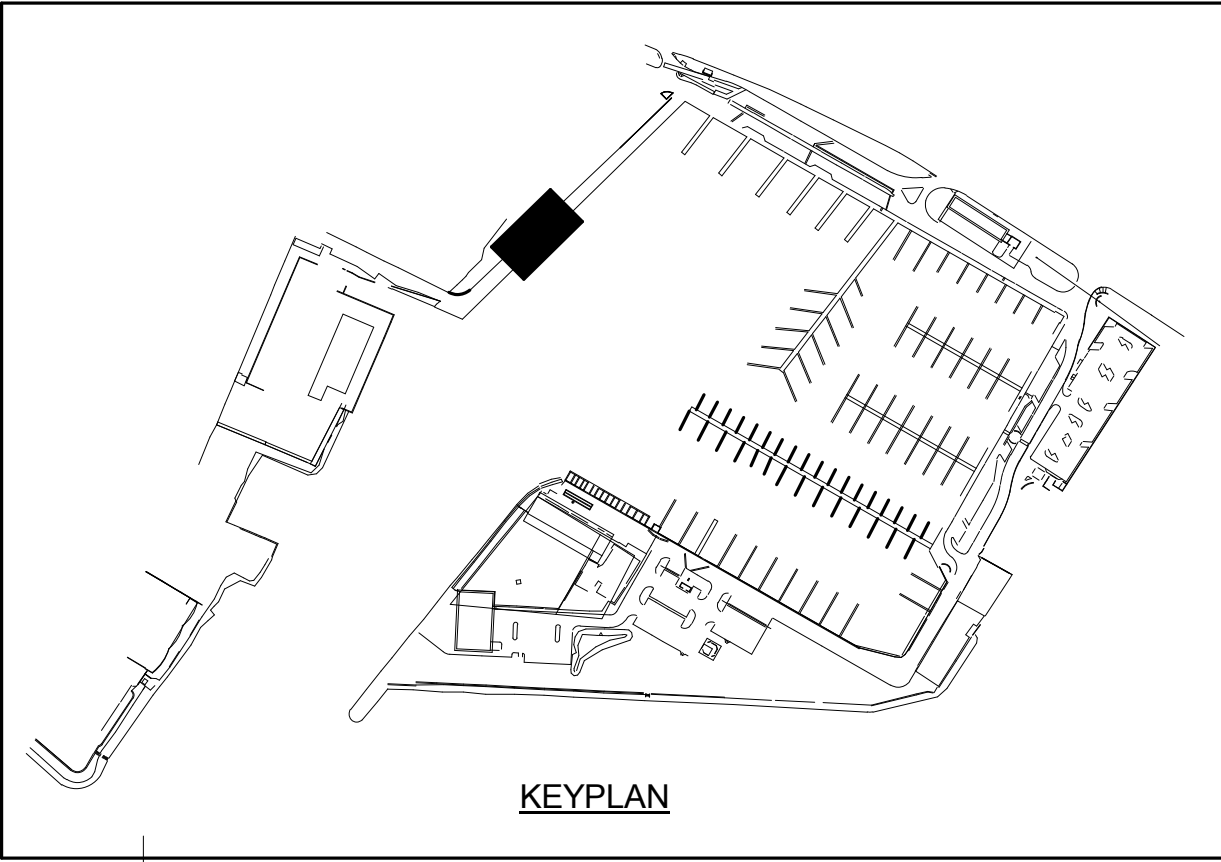
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KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
4x6-6 HH	4'X6'6" HANDHOLE WITH TRAFFIC RATED COVER . SEE DETAIL
ADM	SEE ONE LINE DIAGRAM,E-005.

1 PARTIAL PIER "FW" ELECTRICAL PLAN
1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"



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PARTIAL PIER "FW" ELECTRICAL PLAN

REVISIONS		NO.	DATE	DESCRIPTION	BY

PROJECT NO.

150172

DRAWN BY:

AH

DESIGNED BY:

CAC

CHECKED BY:

PB

REVIEWED BY:

Approver

DATE

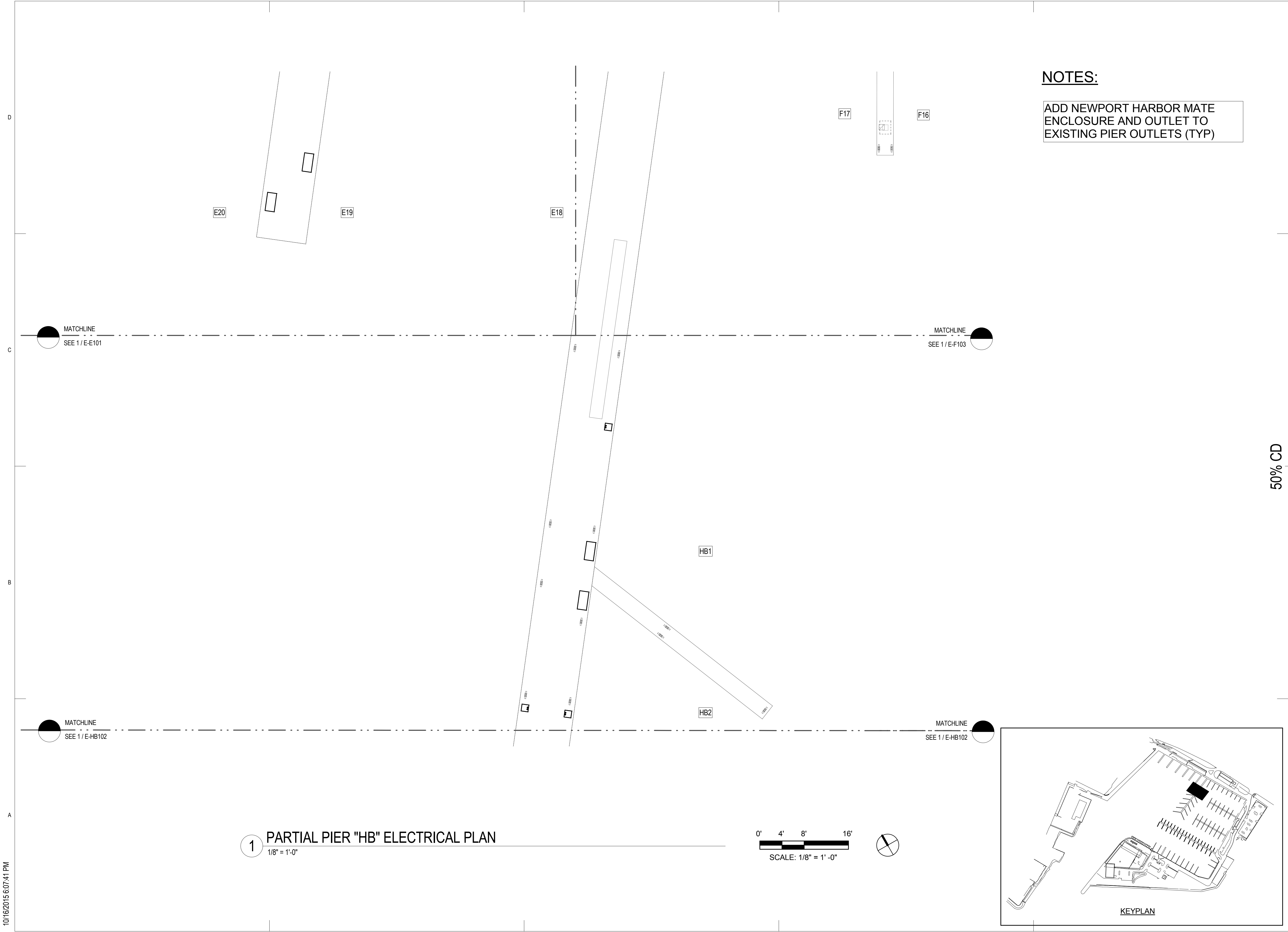
10/09/15

E-FW103

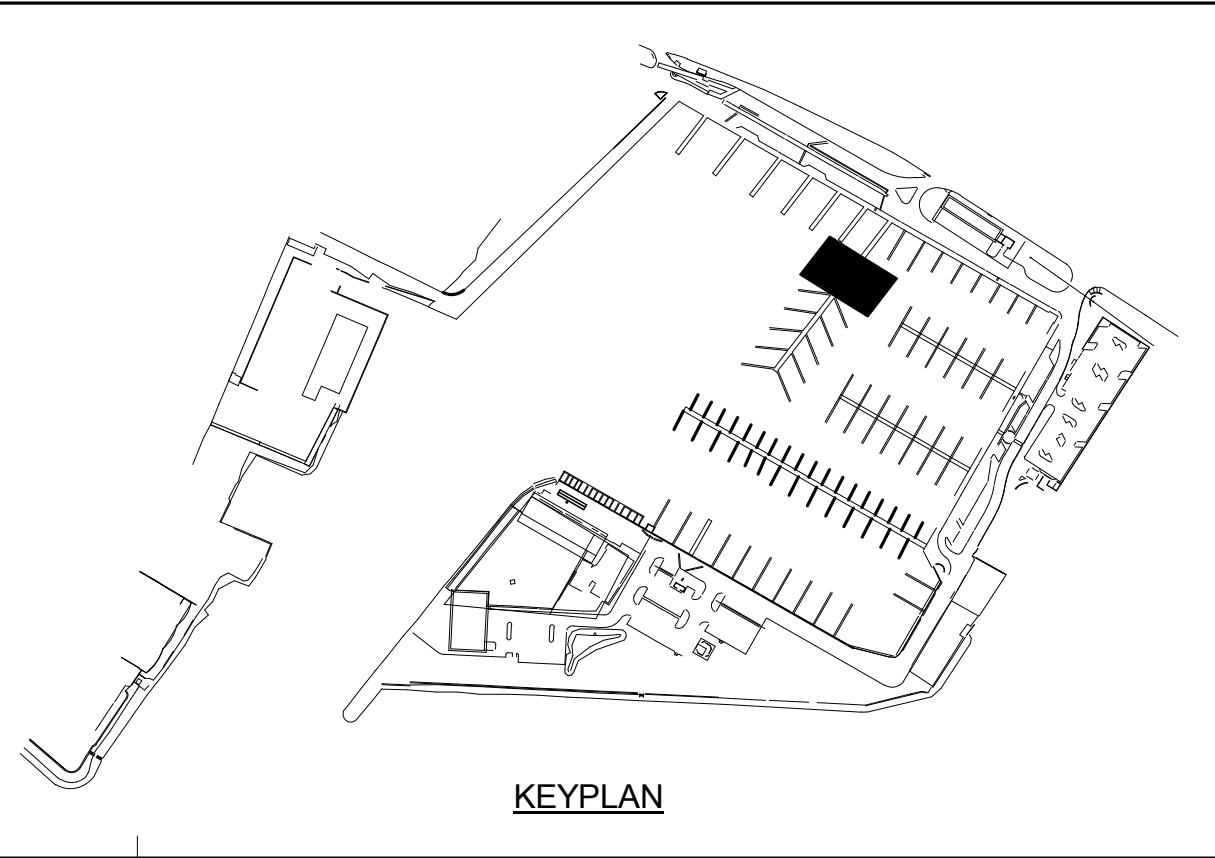
KEYPLAN

E-FW104

10/16/2015 6:07:41 PM



NOTES:
ADD NEWPORT HARBOR MATE ENCLOSURE AND OUTLET TO EXISTING PIER OUTLETS (TYP)



1 PARTIAL PIER "HB" ELECTRICAL PLAN
1/8" = 1'-0"

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PARTIAL PIER "HB" ELECTRICAL PLAN

REVISIONS		BY	DATE	NO.
DESCRIPTION				

PROJECT NO. 150172

DRAWN BY: AH

DESIGNED BY: CAC

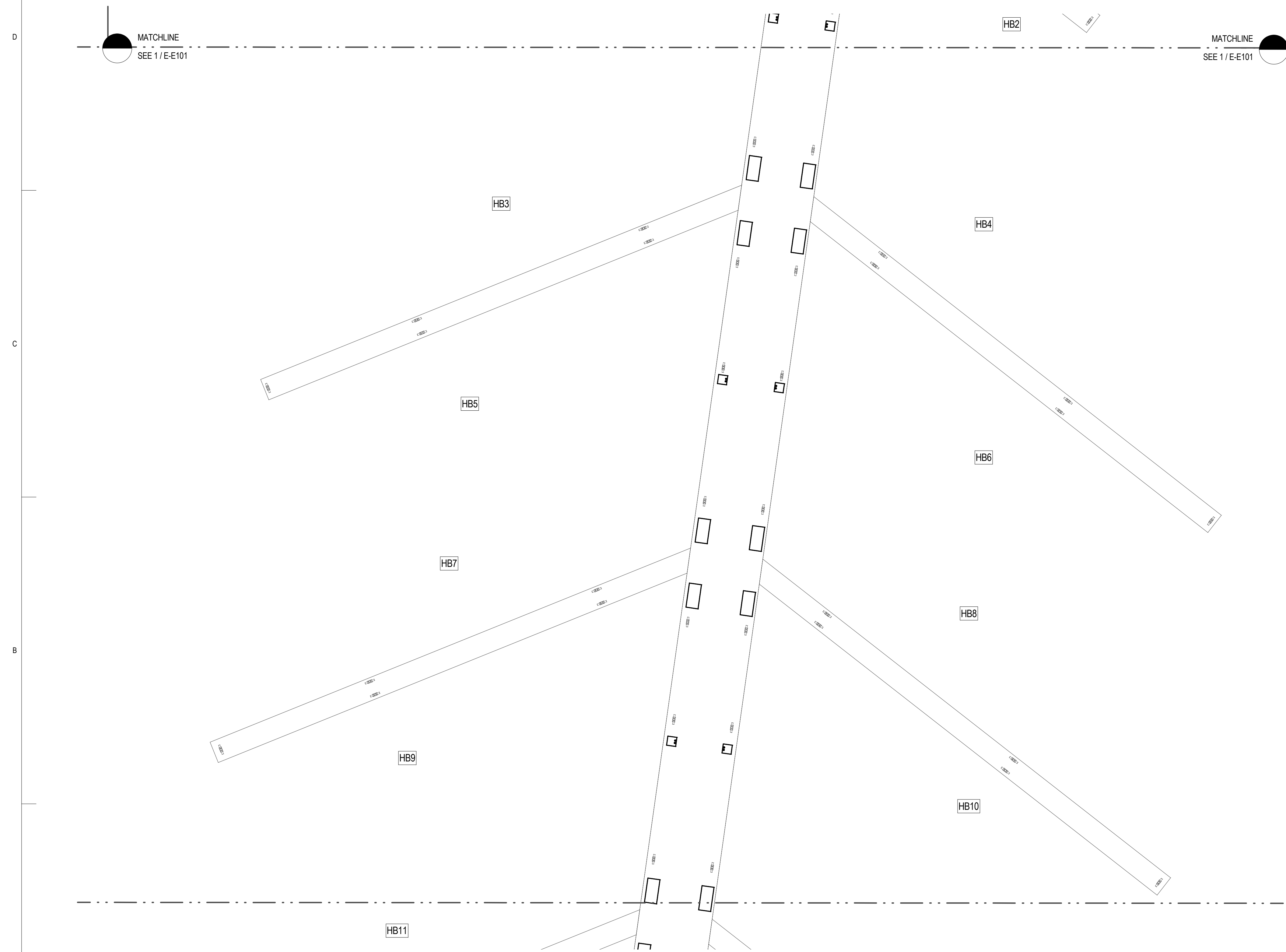
CHECKED BY: PB

REVIEWED BY: Approver

DATE 10/09/15

E-HB101

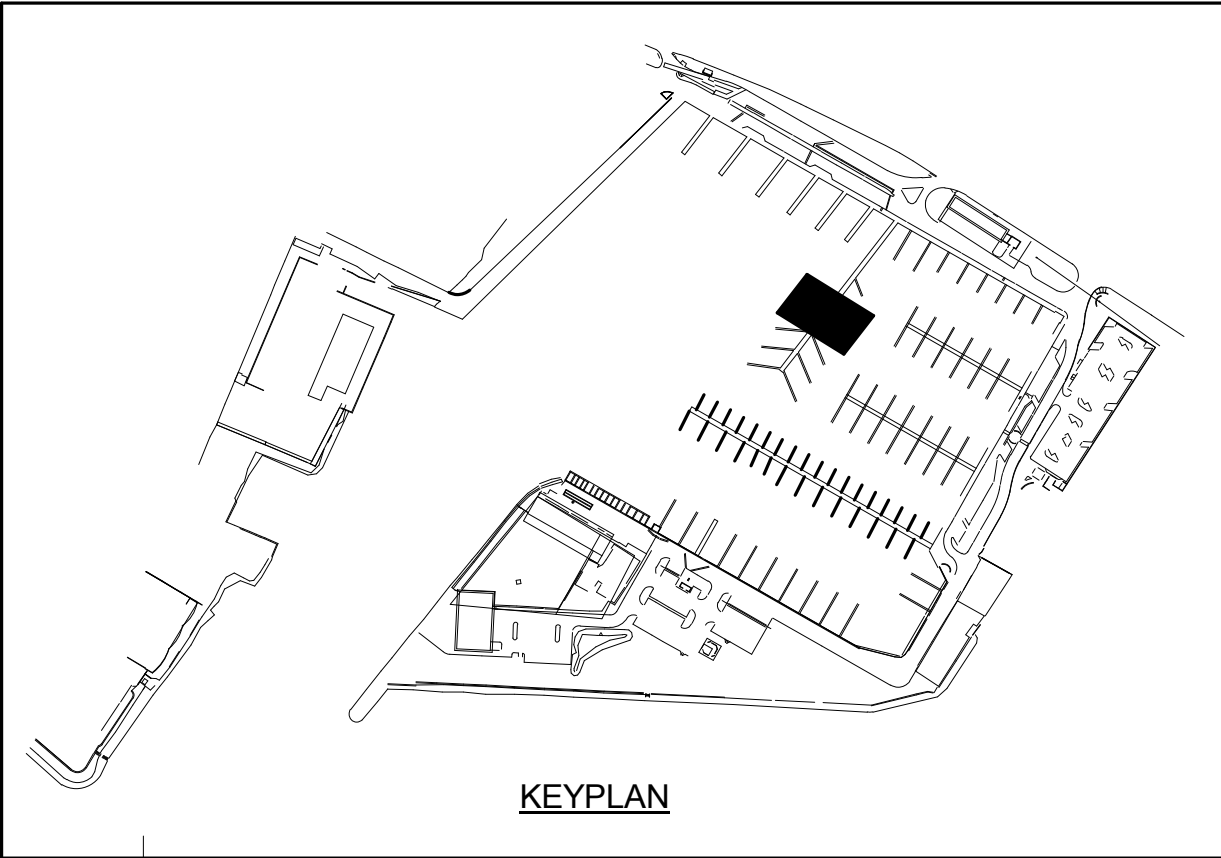
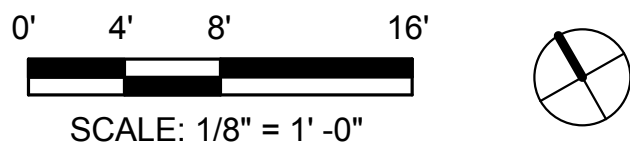
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NOTES:

ADD NEWPORT HARBOR MATE ENCLOSURE AND OUTLET TO EXISTING PIER OUTLETS (TYP)

1 PARTIAL PIER "HB" ELECTRICAL PLAN
1/8" = 1'-0"

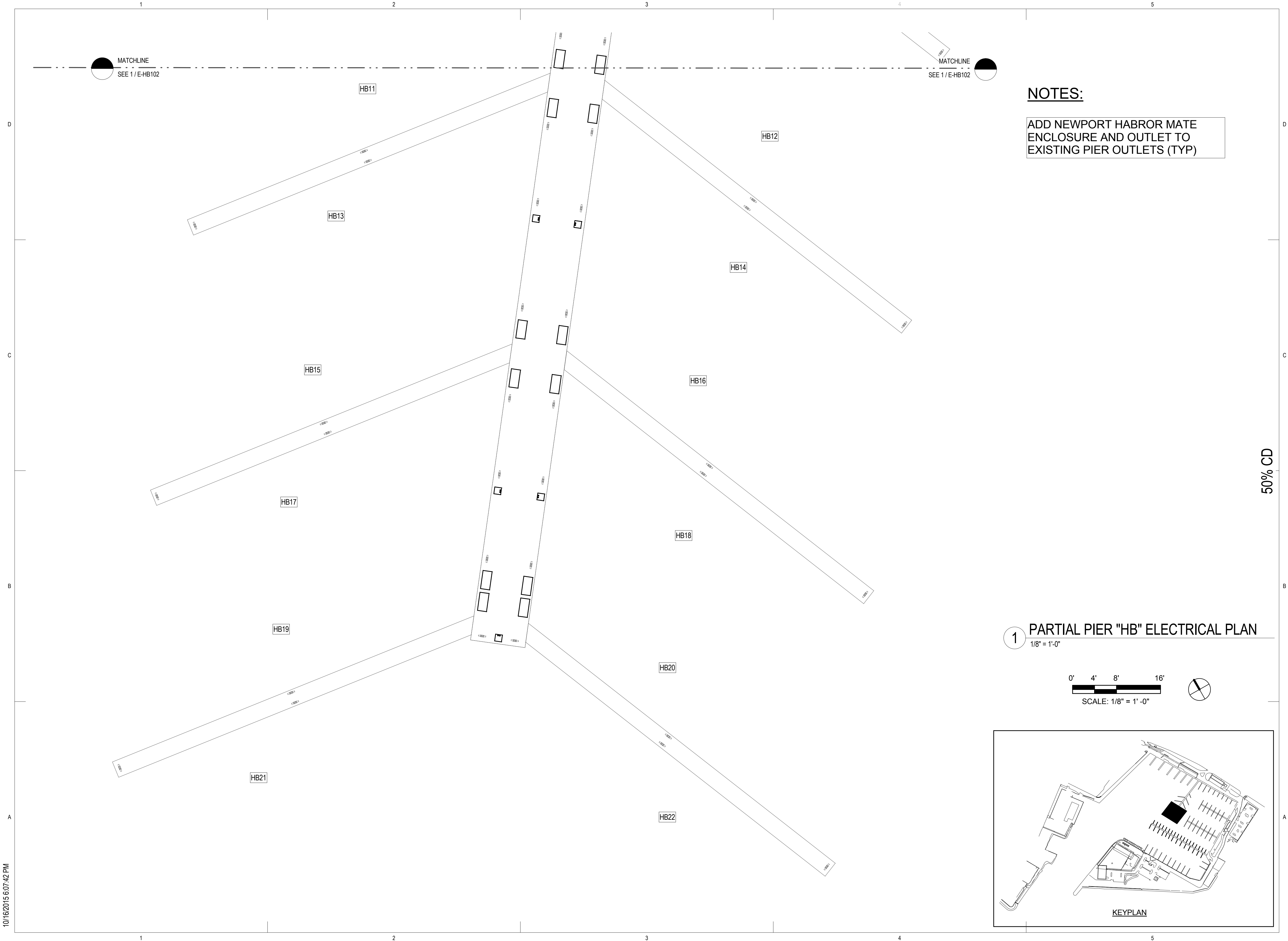


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HONOLULU HAWAII
DRAWING TITLE
PARTIAL PIER "HB" ELECTRICAL PLAN

REVISIONS		DESCRIPTION	BY
NO.	DATE		
PROJECT NO.		150172	
DRAWN BY:		AH	
DESIGNED BY:		CAC	
CHECKED BY:		PB	
REVIEWED BY:		Approver	
DATE		10/09/15	

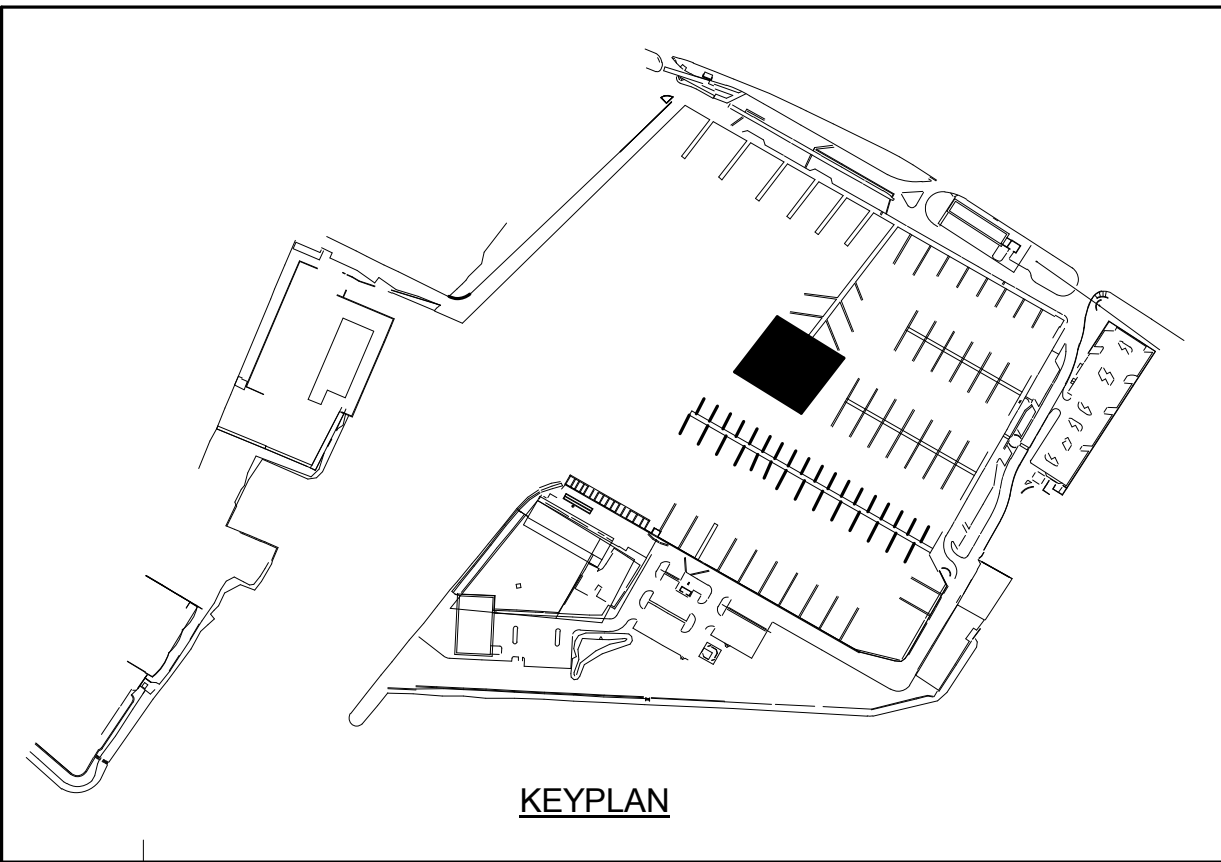
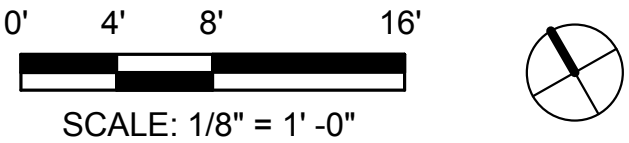
10/16/2015 6:07:42 PM



NOTES:

ADD NEWPORT HABROR MATE ENCLOSURE AND OUTLET TO EXISTING PIER OUTLETS (TYP)

1 PARTIAL PIER "HB" ELECTRICAL PLAN
1/8" = 1'-0"



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DRAWING TITLE

PARTIAL PIER "HB" ELECTRICAL PLAN

REVISIONS	NO.	DATE	DESCRIPTION	BY

PROJECT NO. 150172

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E-HB103

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1

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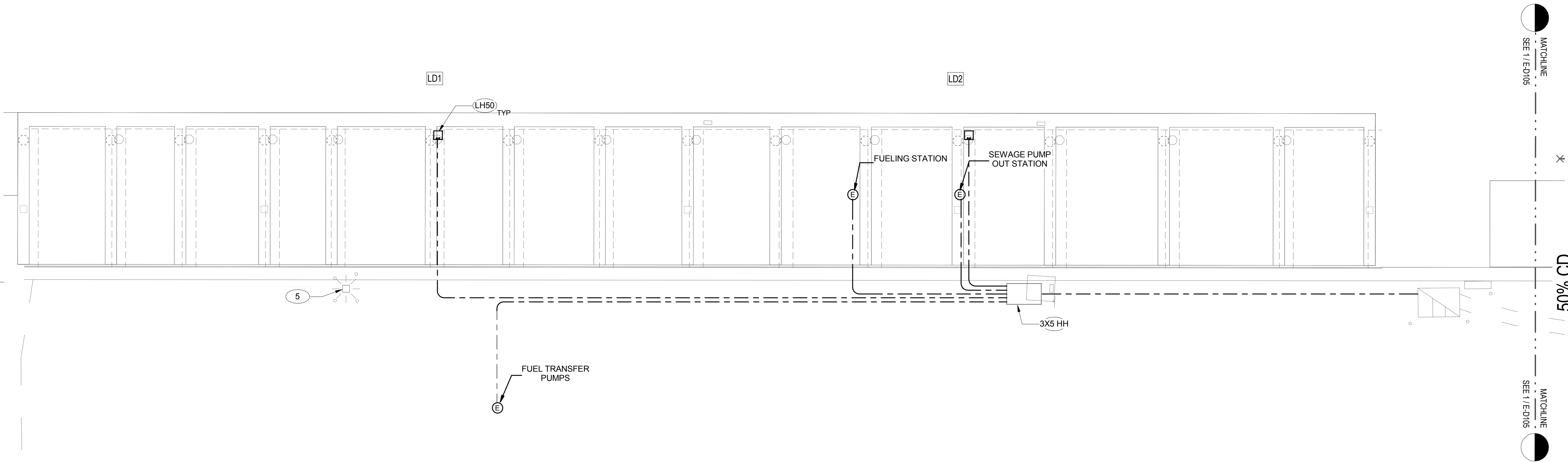
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4

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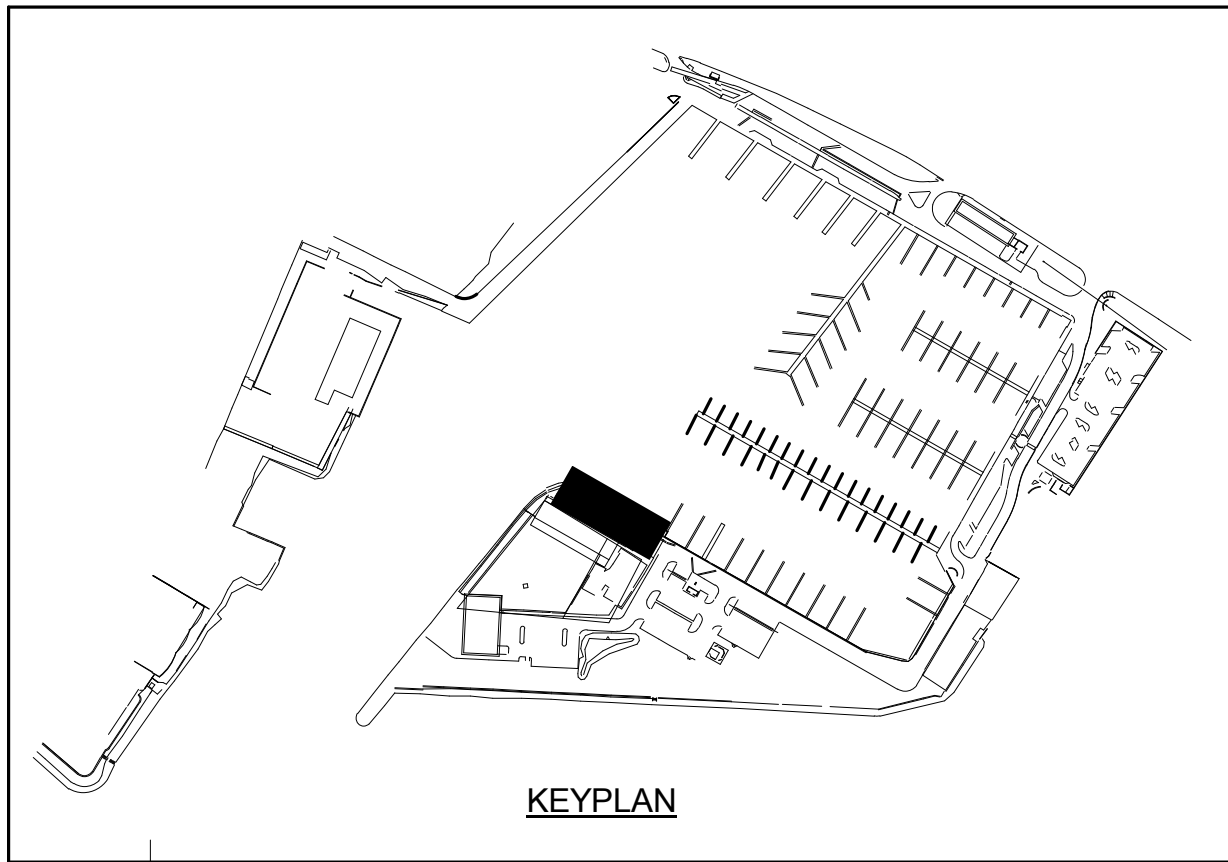
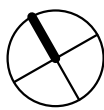
KEYNOTE LEGEND	
KEY VALUE	KEYNOTE DESCRIPTION
3X5 HH	3X5 HANDHOLE, 7" WALL, WITH LIGHT TRAFFIC RATED COVER. SIMILAR TO HECO #101021
5	EXISTING LIGHT POLE AND 250W HPS LUMINAIRE. REPLAMP WITH LED LAMP, 4000K. CLEAN INSIDE AND OUTSIDE OF REFRACTOR
LH50	LIGHTHOUSE PEDESTAL. 50 A, 125/250 V OUTLET. SEE SHEET DETAIL 3/E-011.

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1 PARTIAL PIER "LD" ELECTRICAL PLAN
1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"



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PIER "LD" ELECTRICAL PLAN

DRAWING TITLE

REVISIONS	DESCRIPTION	BY
NO.	DATE	

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DATE	10/09/15

E-LD101