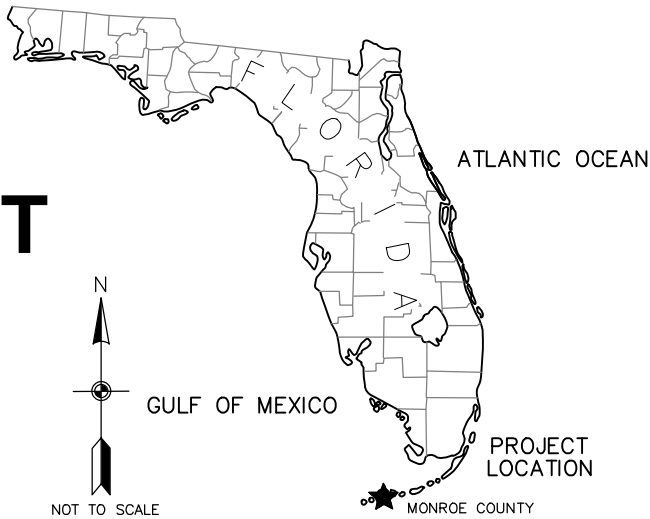
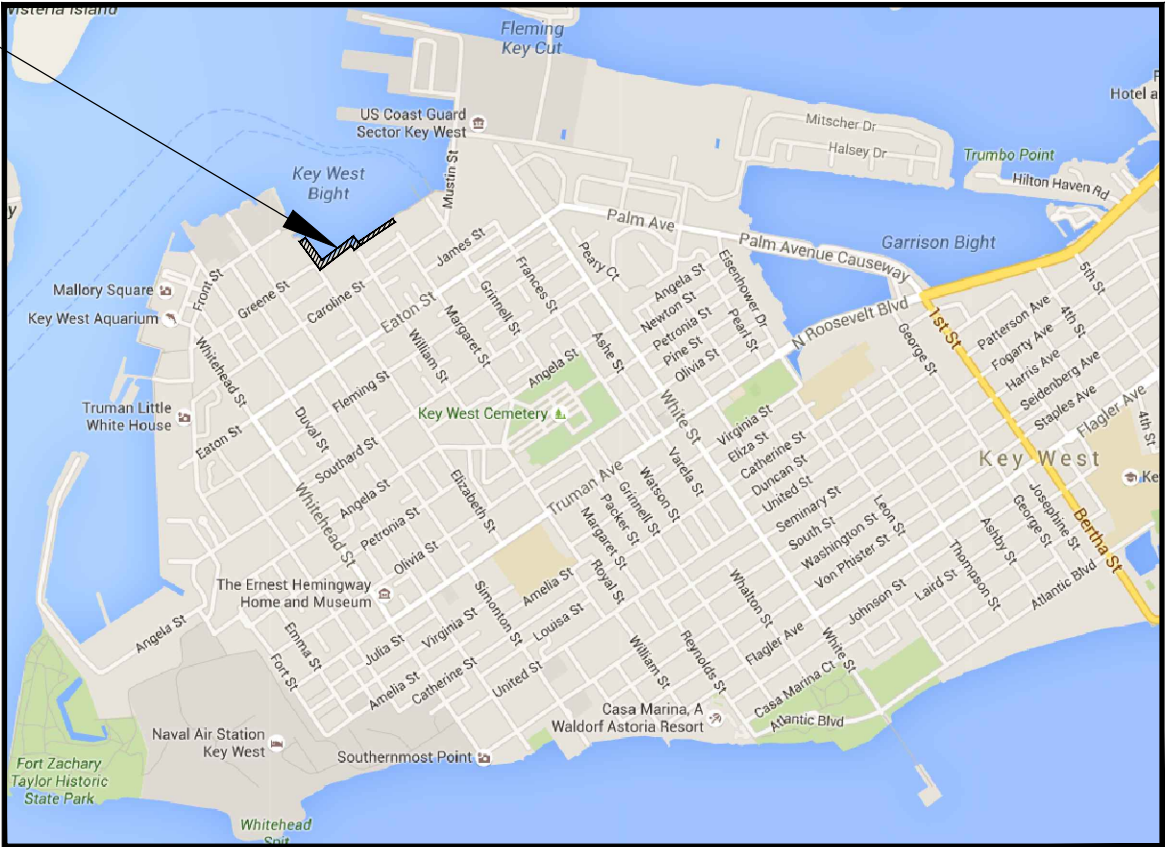




KEY WEST HISTORIC SEAPORT SEAWALL REPAIR AND REPLACEMENT BID DRAWINGS



PROJECT
LOCATION



KEY WEST CITY COMMISSION

TERI JOHNSON, MAYOR
CLAYTON LOPEZ, VICE-MAYOR
JIMMY WEEKLEY, COMMISSIONER
GREGORY DAVILA, COMMISSIONER
SAMUEL KAUFMAN, COMMISSIONER
MARY LOU HOOVER, COMMISSIONER
BILLY WARDLOW, COMMISSIONER

VICINITY MAP KEY WEST BIGHT, KEY WEST, FLORIDA

PERMITS:

FDEP: 0137939-018-EE, MONROE COUNTY
0137939-021-EE, MONROE COUNTY
USACE: SAJ-2017-01874-(NW-GGM)
SAJ-2018-00288-(NW-GGM)
FKNMS-NOAA: FKNMS-2017-097-A1
FKNMS-2018-107

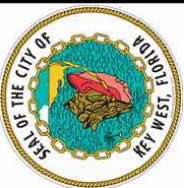
PROJECT #: KB1509 ITB #: 19-017

INDEX OF SHEETS

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G-002	KEY WEST BIGHT LOCATION AND ACCESS	5/6/2019	0
G-003	GENERAL NOTES	5/6/2019	0
G-004	DESIGN PHASING PLUS KEY SHEET	5/6/2019	0
S-101	SEAWALL SURVEY (EXISTING CONDITIONS)	5/6/2019	0
S-102	SEAWALL SURVEY (EXISTING CONDITIONS)	5/6/2019	0
C-201	SEAWALL DEMO AND DEBRIS REMOVAL	5/6/2019	0
C-202	SEAWALL DEMO AND DEBRIS REMOVAL	5/6/2019	0
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E-104	ELECTRICAL SPECS AND RISER DIAGRAMS	5/6/2019	0



NOT FOR CONSTRUCTION



DAVID W. FRODISHAM, STATE OF FLORIDA
PROFESSIONAL ENGINEER, LICENSE NO. 75507
THIS ITEM HAS BEEN DIGITALLY SIGNED AND
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Designated By:	Drawn By:	Checked By:	Date:	Description	Mark	Date	Appr.

Designed By:
Drawn By:
Checked By:
Date: 5/6/2019
Design File No: KBW-SEAWALL-DESIGN-V5.0.DWG
Scale: AS SHOWN

TETRA TECH INC.
759 SOUTH FEDERAL HWY
SUITE 314 34994-2936
TALLAHASSEE, FL 32310
TEL: (904) 791-3400
FAX: (904) 791-3411
CERTIFICATE OF AUTHORIZATION
NO. 2429

KEY WEST HISTORIC SEAPORT
SEAWALL REPAIR AND REPLACEMENT
COVER SHEET AND VICINITY MAP
KEY WEST, MONROE COUNTY, FLORIDA

Sheet Reference:
G-001
Sheet 1 of 19

GENERAL NOTES:

1. THIS DOCUMENT IDENTIFIES THE OWNER AS THE "CAROLINE STREET CORRIDOR AND BAHAMA VILLAGE COMMUNITY REDEVELOPMENT AGENCY," HEREINAFTER REFERRED TO AS "CRA."
2. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK UNDER THIS CONTRACT AND NOTIFY THE "CRA"/ENGINEER IN WRITING OF ANY DIFFERENCES BEFORE COMMENCING WITH CONSTRUCTION.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF/HERSELF WITH THE SITE, ACCESS CONSTRAINTS, LOCAL BOATING SCHEDULES, AND OTHER UNIQUE CONSIDERATIONS AS IDENTIFIED IN THE SPECIFICATIONS.
4. THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS AND, IN CASE OF ANY CONFLICT BETWEEN ANY PORTION OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REQUEST CLARIFICATION IN WRITING PRIOR TO BIDDING OR BASE HIS/HER BID ON THE MORE STRINGENT REQUIREMENTS.
5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL MATERIALS USED TO THE "CRA"/ENGINEER FOR APPROVAL PRIOR TO ORDER, SHIPMENT, OR INSTALLATION. THE CONTRACTOR SHALL ALSO SUBMIT SHOP DRAWINGS FOR CLOSURE POURS AT EACH END OF THE PROPOSED SEAWALL.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED LOCAL PERMITS ARE OBTAINED AND IN HAND BEFORE BEGINNING ANY CONSTRUCTION. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PERMITS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. ANY PENALTIES, STOP WORK ORDERS OR ADDITIONAL WORK RESULTING FROM THE CONTRACTOR BEING IN VIOLATION OF THE REQUIREMENTS ABOVE SHALL BE FULLY BORNE BY THE CONTRACTOR. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS OF THE PERMITS, INCLUDING ALL APPLICABLE STANDARD CONDITIONS FOR IN-WATER WORK.
7. BEST MANAGEMENT PRACTICES FOR EROSION AND TURBIDITY CONTROL SHALL BE UTILIZED AT ALL TIMES, PER ENVIRONMENTAL PERMITS, DURING CONSTRUCTION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE USE OF STAKED HAY/STRAW BALES, STAKED FILTER CLOTH, STAKED SILT FENCE, AND ANY OTHER SUITABLE METHOD AROUND DRAINAGE STRUCTURES AND AT ALL AREAS SUBJECT TO EROSION. FLOATING OR STAKED TURBIDITY BARRIERS SHALL BE USED IF APPROPRIATE. THE CONTRACTOR SHALL PROVIDE DAILY INSPECTION OF THE EROSION PROTECTION ITEMS AND MAINTAIN THEM DURING THE ENTIRE PERIOD OF CONSTRUCTION.
8. ALL SURFACE WATER DISCHARGES FROM THE SITE SHALL MEET STATE WATER QUALITY STANDARDS (LESS THAN 29 NTU ABOVE BACKGROUND) PRIOR TO REACHING ANY WATERS OF THE STATE.
9. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND PERMITS ON THE JOB DURING ALL PHASES OF CONSTRUCTION.
10. ALL FIELD LAYOUT, SURVEYING, AND MATERIALS TESTING FOR CONSTRUCTION OF THE PROJECT SHALL BE PROVIDED BY THE CONTRACTOR AT HIS/HER EXPENSE.
11. AFTER CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL PROVIDE THE "CRA" WITH SIGNED & SEALED 'AS-BUILT' RECORD DRAWINGS OF HIS/HER WORK.

SURVEY:

12. ELEVATIONS SHOWN HEREON ARE IN FEET AND BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929). TO CONVERT NGVD 1929 ELEVATIONS TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988) FOR THIS SITE, THE MODEL VALUE OF (-)1.34 MUST BE ADDED ALGEBRAICALLY TO THE NGVD 1929 HEIGHT.
13. THE GRID COORDINATES SHOWN HEREON ARE BASED ON THE NORTH AMERICAN DATUM OF 1927, OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (TRANSVERSE MERCATOR PROJECTION), EAST ZONE, ESTABLISHED BY A REAL-TIME KINEMATIC SURVEY (RTK) GPS CONTROL SURVEY WHICH IS CERTIFIED TO A 2 CENTIMETER LOCAL ACCURACY, RELATIVE TO THE NEAREST CONTROL POINT WITHIN THE NATIONAL GEODETIC SURVEY (NGS) GEODETIC CONTROL NETWORK.
 - a. METHOD: WIDE AREA CONTINUOUSLY OPERATION GPS REFERENCE STATION NETWORK.
 - b. EQUIPMENT USED: TRIMBLE R10 GNSS, SERIAL NUMBER 5413460373 (DUAL FREQUENCY RECEIVER)
 - c. PROCESSING SOFTWARE: TRIMBLE BUSINESS CENTER, VERSION 3.51
13. BENCHMARK DESCRIPTION: NATIONAL GEODETIC SURVEY STATION DESIGNATION "872 4580 TIDAL 25" (PID AA0004), ELEVATION=5.11 (NGVD 1929), ELEVATION=3.77 (NAVD 1988).

UTILITIES:

14. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT OF UTILITIES AND OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE COMPLETION OF THIS WORK. THE CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF WORK PRIOR TO CONSTRUCTION. THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION ACTIVITIES SO THAT A UTILITY COMPANY REPRESENTATIVE CAN BE PRESENT.
- CONTACT PERSON/UTILITY OWNER:
- | | | |
|-------------------------|----------------------|--------------|
| LEONARD MAXWELL-NEUBOLD | COMCAST CABLE | 954-447-8405 |
| ASHLEE TOWNSEND | KEYS ENERGY SERVICES | 305-295-1047 |
| MARNIE WALTERSON | FKAA | 305-295-2154 |
| KELLY KOENIG | OMII | 305-292-5100 |
| DINO FARRUGGIO | AT&T | 561-997-0240 |
| KAREN OLSON | KEY WEST BIGHT | 305-809-3803 |
15. TO THE EXTENT POSSIBLE, THE CONTRACTOR SHALL MAINTAIN UTILITY SERVICE TO ALL DOCKS WITHIN THE KEY WEST BIGHT DURING CONSTRUCTION. IN THE EVENT THAT WATER, FIRE, SEWER OR ELECTRICAL SERVICE NEEDS TO BE INTERRUPTED FOR SEAWALL INSTALLATION OR REPAIR, THE CONTRACTOR SHALL PROVIDE TEMPORARY PUMPS OR OTHER FACILITIES TO PROVIDE SERVICE DURING PERIODS OF DISCONNECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COMMUNICATION WITH THE ENGINEER, THE "CRA", AND BIGHT DOCK PATRONS AT LEAST 48 HOURS IN ADVANCE OF SERVICE INTERRUPTIONS.
16. THE ELECTRICAL CONDUIT BANKS AND OTHER UTILITIES SHOWN ON THE SURVEY HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION. THE SURVEYOR AND ENGINEER MAKE NO GUARANTIES THAT THE ELECTRICAL AND OTHER UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER FURTHER DO NOT WARRANT THAT THE ELECTRICAL AND OTHER UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. EVERY EFFORT HAS BEEN MADE TO OBTAIN UTILITIES PIPE TYPE AND SIZE, AS

CONTACT PERSON/UTILITY OWNER:

LEONARD MAXWELL-NEWBOLD	COMCAST CABLE	954-447-8405
ASHLEE TOWNSEND	KEYS ENERGY SERVICES	305-295-1047
MARNIE WALTERSON	FCAA	305-295-2154
KELLY KOENIG	OMII	305-292-5100
DINO FARRUGGIO	AT&T	561-997-0240
KAREN OLSON	KEY WEST BIGHT	305-809-3803

SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE INVERT AND PIPE SIZE DIMENSIONS PRIOR TO CONSTRUCTION.

17. THE CONTRACTOR SHALL BE ADVISED THAT CONDUITS AFFIXED TO THE DOCK AND ALONG THE SEAWALL ARE DEPICTED AS UNDERGROUND ELECTRICAL ON THE PLANS. THE PRESENCE OR ABSENCE OF UTILITIES WITHIN THESE CONDUITS HAS NOT BEEN VERIFIED IN ALL CASES, AND IN SOME CASES THESE CONDUITS CONTAIN WATER, SEWER, ELECTRICAL, OR OTHER UTILITY SERVICES. ALL UTILITIES SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE PERMITTED BY THE "CRA"/ENGINEER. ALL HANGERS WITHIN THE PROJECT LIMITS ARE TO BE REPAIRED/REPLACED AS REQUIRED. ALL VACANT CONDUITS OR SEAWALL PENETRATIONS SHALL BE MAINTAINED, PRESERVED, OR RE-INSTALLED.
18. UPLAND UNDERGROUND UTILITIES PRESENT ON THESE PLANS HAVE BEEN PROVIDED FROM PREVIOUS RECORD OR DESIGN DRAWINGS AND ARE NOT ENTIRELY REPRESENTATIVE OF ALL UNDERGROUND UTILITY LOCATIONS WITHIN THE PROJECT LIMITS NOR EXACT LOCATIONS, AND SHALL BE CONSIDERED APPROXIMATE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING SIZE AND TYPE OF MATERIALS FOR CONNECTIONS, VALVES, SEAWALL PENETRATION EXTENSIONS OR APPERTAINING WORK ITEMS PRIOR TO CONSTRUCTION.

PROJECT PHASING:

19. THE PROJECT SHALL BE CONSTRUCTED IN THREE PHASES AS SCHEDULED BY THE "CRA". THE "CRA" SHALL DETERMINE, BASED UPON THEIR OWN SCHEDULE, THE ORDER AND TIMELINE IN WHICH PHASES WILL BE CONSTRUCTED TO ACCOMMODATE LOCAL MARINA PATRON USE. THE "CRA" SHALL AWARD ALL PHASES OR SEPARATE PHASES AT THE "CRA"'S DISCRETION.

PROJECT SUMMARY:

20. PHASE A OF THE PROJECT CONSISTS OF THE INSTALLATION OF APPROXIMATELY 174 LF (~31 CY) OF REINFORCED CONCRETE FOOTER ALONG THE BASE OF THE EXISTING SEAWALL AND PROJECTING NO MORE THAN 18 INCHES WATERWARD OF THE EXISTING SEAWALL. ADDITIONALLY SOME EPOXY REPAIRS AND VOID GROUTING AS SHOWN ON THE PLANS.
21. PHASE B OF THE PROJECT CONSISTS OF UTILITY HANGER REPAIRS, 60 LF OF SEAWALL CAP DEMOLITION & RECONSTRUCTION, EPOXY REPAIRS, VOID GROUTING, STUMP REMOVAL, AND OTHER ANCILLARY WORK ITEMS AS SHOWN ON THE PLANS.
22. PHASE C OF THE PROJECT CONSISTS OF THE INSTALLATION OF APPROXIMATELY 333 LF OF STEEL CANTILEVER SHEETPILE SEAWALL WITH APPROXIMATELY 333 LF (~45 CY OF REINFORCED CONCRETE CAP), UTILITY CONNECTIONS AND PENETRATION EXTENSIONS, AND ALL INCIDENTAL WORK NECESSARY TO PROVIDE A COMPLETE AND SERVICEABLE PROJECT. THE PROPOSED SEAWALL SHALL NOT EXCEED 18 IN WATERWARD OF THE EXISTING SEAWALL.
23. THE CONTRACTOR SHALL REMOVE, HAUL, AND APPROPRIATELY DISPOSE OF ALL SUBMERGED DEBRIS FOUND WITHIN 10 LF OF THE SEAWALL WHERE REPAIRS ARE MADE AS A CONDITION OF THE USACE PERMIT.
24. THE TOP OF THE CAP ELEVATION SHALL MATCH EXISTING WITHIN A TOLERANCE OF +/- 0.25 INCH. CAP SHALL PROVIDE TRANSITION WITH NO TRIP HAZARDS OR CHANGES IN ELEVATION GREATER THAN 0.25 INCHES.
25. ADDITIONAL WORK ITEMS THAT WILL BE REQUIRED AND ARE PART OF THE BID INCLUDE, BUT ARE NOT LIMITED TO PRE-CONDITION AND POST-CONSTRUCTION VIDEO SURVEYS OF STRUCTURES WITHIN 50 LF OF PILE DRIVING OPERATIONS; VIBRATION MONITORING OF STRUCTURES WITHIN 50 LF OF THE PROJECT DURING PILE DRIVING ACTIVITY; UTILITY EXTENSIONS THROUGH THE NEW SEAWALL; WATER/FIRE VALVE REPLACEMENT; REMOVAL AND REPLACEMENT OF DECKING; PROVISION OF TEMPORARY ACCESS AT ALL BRIDGE/DOCK LOCATIONS (GANGWAYS); PROVISION OF TEMPORARY UTILITIES; EXTENSION OF UTILITY SERVICES; GRADING; RESTORATION.
26. THE "CRA" WILL MAKE A STAGING AREA AVAILABLE FOR USE BY THE CONTRACTOR AT NO COST. THE CONTRACTOR SHALL RESTORE THE STAGING AREAS AT THE COMPLETION OF CONSTRUCTION.
27. THE CONTRACTOR WILL PROVIDE TEMPORARY SITE SECURITY FENCING TO SECURE THE CONSTRUCTION SITE & STAGING AREA(S). THE CONTRACTOR SHALL NOT ALLOW PUBLIC ACCESS TO THE SITE DURING CONSTRUCTION, EXCEPT FOR BIGHT DOCK PATRONS.
28. THE CONTRACTOR WILL MAINTAIN PEDESTRIAN TRAFFIC DURING ALL PHASES OF CONSTRUCTION IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 102. CONSTRUCTION ACTIVITIES WILL NOT IMPEDE TRAFFIC UNLESS AUTHORIZED IN WRITING BY THE "CRA". THE CONTRACTOR SHALL MAINTAIN ALL BOAT TRAFFIC NECESSARY FOR MARINA PATRONS. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL DOCKS FOR ALL MARINA PATRONS AT ALL TIMES UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE "CRA".

DEMOLITION

29. DEMOLITION ACTIVITIES FOR THIS PROJECT INCLUDE:
 - 29.1. DEMOLITION OF A PORTION OF 333 LF OF SEAWALL CAP IN PHASE C. EXISTING SHEETPILE TO REMAIN.
 - 29.2. DEMOLITION OF A PORTION OF 60 LF OF SEAWALL CAP IN PHASE B.
30. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL OBSTRUCTIONS ALONG THE STEEL SHEETPILE'S ALIGNMENT PRIOR TO CONSTRUCTION. THE QUANTITY OF ITEMS REQUIRING DEMOLITION AND REPLACEMENT MAY VARY DEPENDING UPON THE CONTRACTOR'S MEANS AND METHODS.
31. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OR LOCAL AUTHORITIES FURNISHING GAS, WATER, ELECTRICAL, TELEPHONE, OR SEWER SERVICE SO THEY CAN REMOVE, RELOCATE, DISCONNECT, CAP OR PLUG THEIR EQUIPMENT IN ORDER TO FACILITATE DEMOLITION & INSTALLATION OF THE STEEL SHEETPILE.
32. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION AND SHALL MAINTAIN SUFFICIENT PROTECTION FOR ALL UTILITIES REQUIRED TO PROTECT THEM FROM DAMAGE AND TO PROTECT THE PUBLIC DURING CONSTRUCTION. CONTRACTOR SHALL ALSO SUPPORT EXISTING UTILITIES AS REQUIRED FOR INSTALLATION OF ALL PROPOSED IMPROVEMENTS. ALL COSTS ASSOCIATED WITH PROTECTING, SUPPORTING, REPAIRING, AND OTHER ACTIVITIES RESULTING FROM CONTRACTOR DAMAGING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT NO ADDITIONAL COST TO THE "CRA".
33. THE CONTRACTOR SHALL SAW-CUT A SMOOTH STRAIGHT EDGE ON ANY CONCRETE PROPOSED FOR DEMOLITION PRIOR TO ITS REMOVAL. ANY EXCAVATION SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

STEEL SHEETPILE:

34. AN ESTIMATED TOTAL OF 333 LF OF SHEET PILING SHALL BE REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT QUANTITY REQUIRED PRIOR TO BIDDING. STEEL SHEETPILE SHALL BE SKZ-31 OR ENGINEER-APPROVED EQUIVALENT AS IDENTIFIED IN THE PLANS, IN ALL CASES ASTM A690 GRADE 50 STEEL.
35. ALL STEEL SHEETPILE UTILIZED ON THIS PROJECT SHALL BE NEW.
36. INSTALLATION ACTIVITIES SHALL BE DONE IN SUCH A WAY AS TO NOT DISTURB SURROUNDING STRUCTURES.
37. VIBRATION MONITORING OF ADJACENT STRUCTURES SHALL BE CONDUCTED DURING ALL DRIVING ACTIVITIES.
38. SHEETPILES SHALL BE SET IN A STRAIGHT LINE BETWEEN INFLECTION POINTS.

39. STEEL SHEETS SHALL BE VIBRATED INTO PLACE FROM THE WATER AND WILL BE INTER-LOCKED PER MANUFACTURER'S SPECIFICATIONS.
40. DESIGN SURCHARGE LOAD FOR SHEET PILE = 250 PSF

CONCRETE:

41. CONCRETE CAP SHALL MEET SPECIFICATION SECTION 03 30 00 CAST-IN-PLACE CONCRETE EXCEPT AS AMENDED BELOW.
 - 41.1. ENVIRONMENT = EXTREMELY AGGRESSIVE
 - 41.2. CLASS IV, MINIMUM 28 DAY STRENGTH: $f'_c = 6,000$ PSI
 - 41.3. MINIMUM COVER = 3 INCHES
 - 41.4. NO FLYASH OR SLAG WILL BE PERMITTED AS A SUBSTITUTE FOR CEMENT.
 - 41.5. MAXIMUM W/C RATIO = 0.40
42. CONTRACTOR SHALL PROVIDE MATERIALS TESTING FOR 7, 14, AND 28 DAY BREAKS TO CONFIRM CONCRETE STRENGTH.
43. ALL CONCRETE REINFORCEMENT SHALL BE CHROMX 9100.
44. TIES AND OTHER ACCESSORIES USED IN REINFORCEMENT SHALL CONFORM WITH MANUFACTURER'S RECOMMENDED MATERIALS FOR USAGE WITH CHROMX 9100.
45. REINFORCEMENT SHALL BE CAREFULLY PLACED, RIGIDLY SUPPORTED, AND WELL TIED WITH BAR SUPPORTS AND SPACERS.
46. CONTRACTOR SHALL PROVIDE 1 INCH CHAMFERS ON ALL EDGES AND CORNERS.
47. CONTROL JOINTS TO BE 1/8" x 1" DEEP TOOLED JOINT @ 50'-0" O.C. (MAX.).

SEAWALL PENETRATIONS:

48. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE NUMBER AND LOCATIONS OF SEAWALL PENETRATIONS.
49. ALL EXISTING SEAWALL PENETRATIONS FOR DRAINAGE AND OTHER UTILITIES SHALL BE MADE THROUGH THE PROPOSED SEAWALL WITH SIMILAR MATERIALS AND INCLUDE WITH THE BID PRICE ALL COUPLINGS, CONNECTION HARDWARE, MATERIALS, AND LABOR IN ACCORDANCE WITH THE MATERIAL MANUFACTURER'S RECOMMENDATIONS.
50. CONTRACTOR SHALL REPLACE SIX (6) WATER/FIRE VALVES BEHIND THE PROPOSED PHASE C SEAWALL. CONTRACTOR SHALL PROVIDE DETAIL ON VALVES.
51. CONTRACTOR SHALL PROVIDE SLEEVING THROUGH THE CAP AROUND PROPOSED SEAWALL PENETRATIONS CONSISTENT WITH EXISTING MATERIAL TYPES AND SIZES, AND SEAL AROUND THE SLEEVE.

FILL MATERIAL:

52. CLEAN IMPORTED FILL WILL BE USED FOR BACKFILLING BETWEEN THE EXISTING CONCRETE SEAWALL AND THE NEW STEEL SHEETPILE SEAWALL, AS WELL AS FOR SURFACE GRADING TO ELEVATIONS AS DESIGNATED ON THE PLAN SET.

DECK WORK:

53. CONTRACTOR SHALL REMOVE PORTIONS OF EXISTING DECKING AND SUPPORTING DOCK TIMBER FROM DOCKS H1, H2 & H3, AS WELL AS THE BRIDGE TO THE NORTH OF CONCH REPUBLIC RESTAURANT TO CONSTRUCT THE PROJECT AND SHALL PROVIDE TEMPORARY ACCESS TO ALL DOCK PATRONS DURING CONSTRUCTION VIA GANGWAY OR OTHER "CRA"/ENGINEER APPROVED ALTERNATIVE. CONTRACTOR SHALL RESTORE DECKING AND SUPPORTING DOCK TIMBER UPON COMPLETION OF THE CAP IN THE DISTURBED AREA AND SHALL LEAVE NO TRIP HAZARDS.

FILTER FABRIC:

54. CONTRACTOR SHALL PROVIDE FILTER FABRIC LANDWARD OF THE PROPOSED SHEET PILING AND WATERWARD OF PROPOSED FILL.
55. FILTER FABRIC SHALL BE MIRAFI 700X OR ENGINEER APPROVED EQUIVALENT, CONTINUOUS ALONG UPLAND SIDE OF STEEL SHEETS. EXTEND TO MUDLINE AND WRAP BENEATH FILL AS SHOWN ON CROSS-SECTIONS.

BRICK:

56. ANY BRICK PAVERS REMOVED DURING CONSTRUCTION SHALL BE REPLACED, OR REUSED, WITH SIMILAR (P/B OLD BALTIMORE 2 1/4" X 4" X 8", TYPE I, CLEANING CODE "A").

VALVES:

57. VALVES SMALLER THAN 3 INCHES SHALL BE BRONZE BALL VALVES AND CONFORM TO FEDERAL SPECIFICATION WW-V-35B, TYPE II, CLASS A. VALVE MUST BE RATED AT 600 PSI WOG.
58. VALVES UP TO AND INCLUDING 10 INCH SHALL BE IRON BODY, BRONZE MOUNTED, GATE VALVES CONFORMING TO AWWA C-500 (LATEST VERSION) BEING RESILIENT WEDGE, NON-RISING STEM TYPE AND APPROPRIATE ENDS FOR HORIZONTAL POSITION IN LINE, AND SHALL OPEN LEFT (COUNTERCLOCKWISE) WITH 2-INCH SQUARE OPERATING NUT. THE COATING ON RESILIENT WEDGES SHALL BE CHLORAMINE RESISTANT.
59. CONTRACTOR SHALL CONFIRM SIZE OF REQUIRED VALVES PRIOR TO PURCHASE/INSTALLATION.

HANGERS:

60. ALL HANGERS SHALL BE COMPOSITE FIBERGLASS (FRP) FROM LEE COMPOSITES, INC. WITH FRP HARDWARE.

TREES:

61. ONE FICUS STUMP SHALL BE REMOVED WITHIN THE VICINITY OF THE SCHOONER WHARF RESTAURANT.
62. ALL OTHER TREES WITHIN THE PROJECT LIMITS SHALL BE PROTECTED. IF ANY WORK IS TO OCCUR WITHIN THE DRIPLINE OF A TREE, SILT FENCING OR OTHER CRA APPROVED METHODS SHALL BE PROVIDED.



NOT FOR CONSTRUCTION

DAVID W. FRODSHAM, STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 7.7507

THIS ITEM HAS BEEN DIGITALLY SIGNED AND
SEALED BY DAVID W. FRODSHAM, PE ON [DATE]
USING A DIGITAL SIGNATURE.

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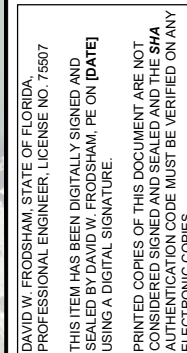
Designed by: __	
Drawn By: __	
Checked By: __	
Date: 5/8/2019	
Design file no: KWB_SEAWALL_DESIGN_V5.0.DWG	
Scale: AS SHOWN	

TETRA TECH INC.
759 SOUTH FEDERAL HWY
SUITE 314
STUART, FL 34994-2936
TEL: (772) 781-3400
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CERTIFICATE OF AUTHORIZATION
NO. 2429

KEY WEST HISTORIC SEAPORT
SEAWALL REPAIR AND REPLACEMENT
GENERAL NOTES
KEY WEST, MONROE COUNTY, FLORIDA

Sheet Reference:
G-003
Sheet 3 of 19

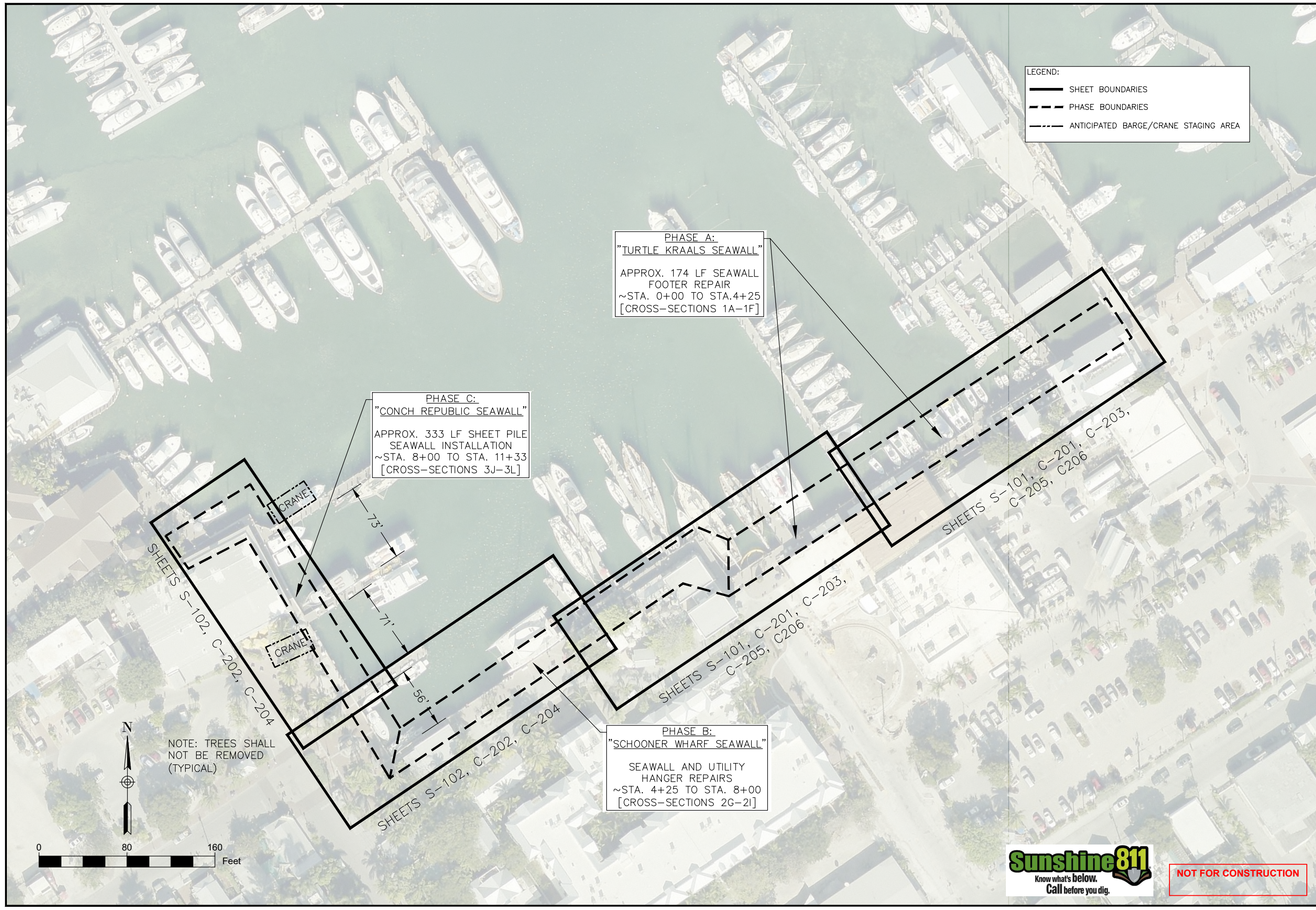
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TETRA TECH INC.
759 SOUTH FEDERAL HWY
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STUART, FL 34994-2936
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CERTIFICATE OF AUTHORIZATION
NO. 2429



KEY WEST HISTORIC SEAPORT
SEAWALL REPAIR AND REPLACEMENT
DESIGN PHASING PLUS KEY SHEET

Sheet Reference:
G-004
Sheet 4 of 19



LEGEND:

———— SHEET BOUNDARIES

- - - - PHASE BOUNDARIES

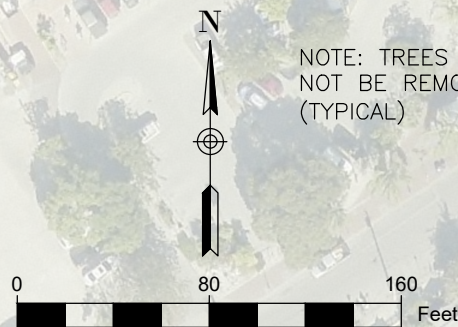
----- ANTICIPATED BARGE/CRANE STAGING AREA

PHASE A:
"TURTLE KRAALS SEAWALL"
APPROX. 174 LF SEAWALL
FOOTER REPAIR
~STA. 0+00 TO STA.4+25
[CROSS-SECTIONS 1A-1F]

PHASE C:
"CONCH REPUBLIC SEAWALL"
APPROX. 333 LF SHEET PILE
SEAWALL INSTALLATION
~STA. 8+00 TO STA. 11+33
[CROSS-SECTIONS 3J-3L]

PHASE B:
"SCHOONER WHARF SEAWALL"
SEAWALL AND UTILITY
HANGER REPAIRS
~STA. 4+25 TO STA. 8+00
[CROSS-SECTIONS 2G-2I]

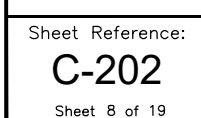
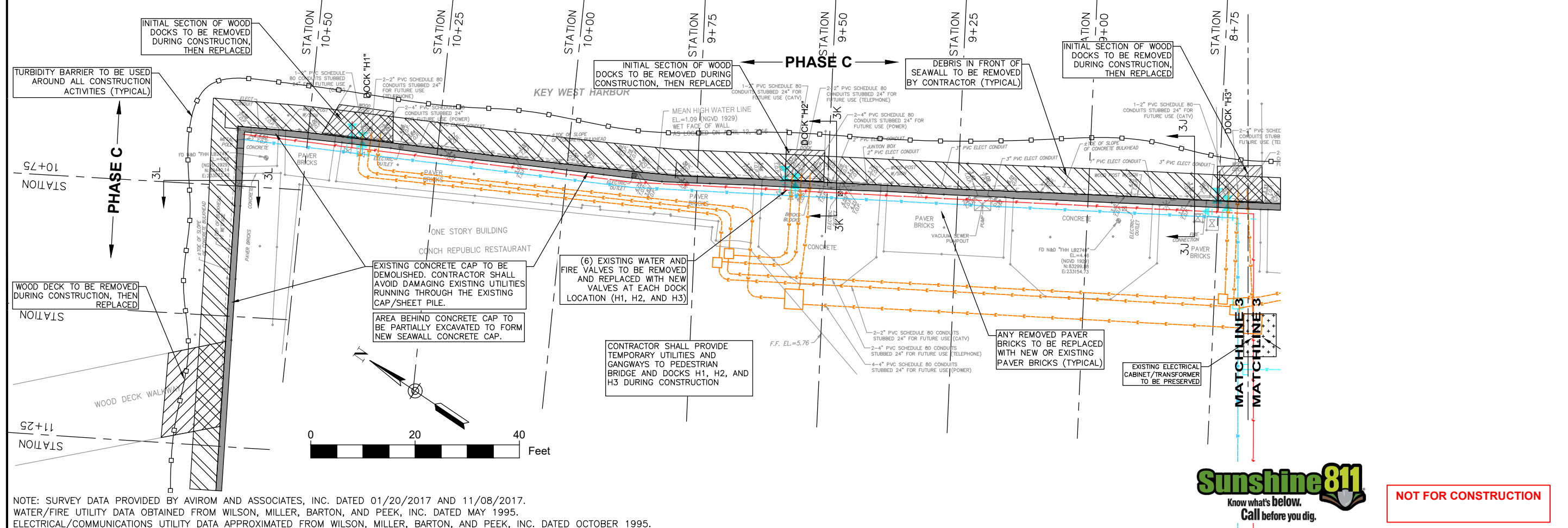
NOTE: TREES SHALL
NOT BE REMOVED
(TYPICAL)

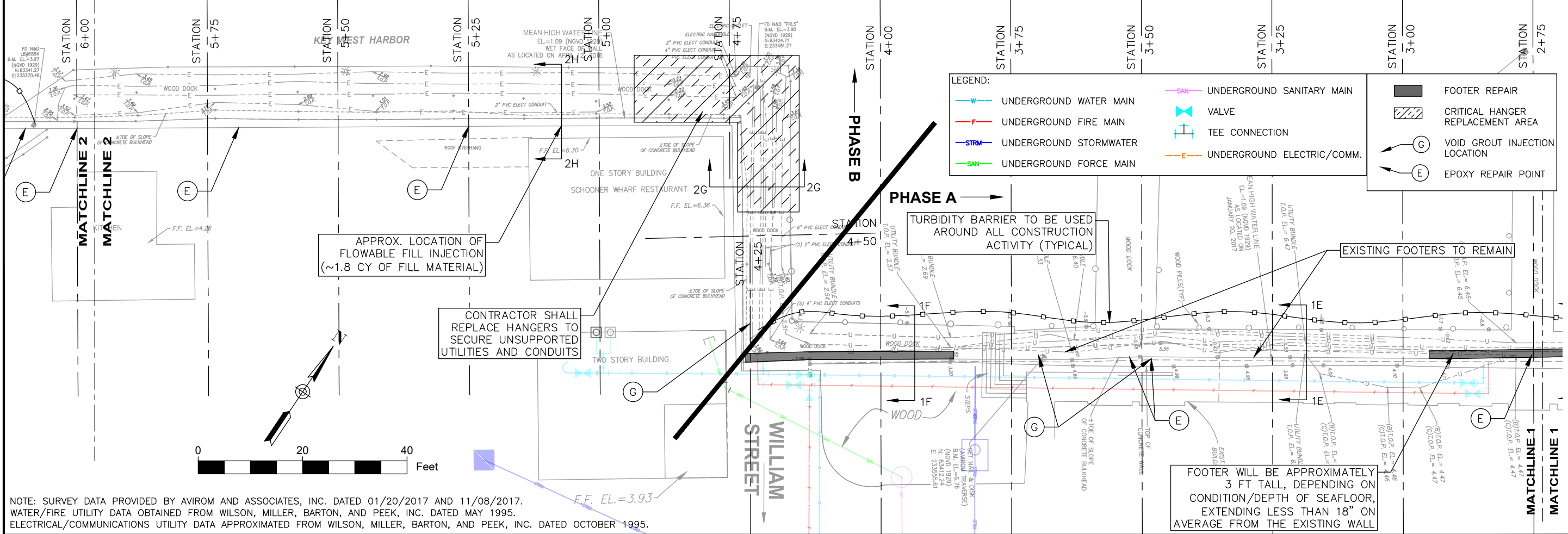
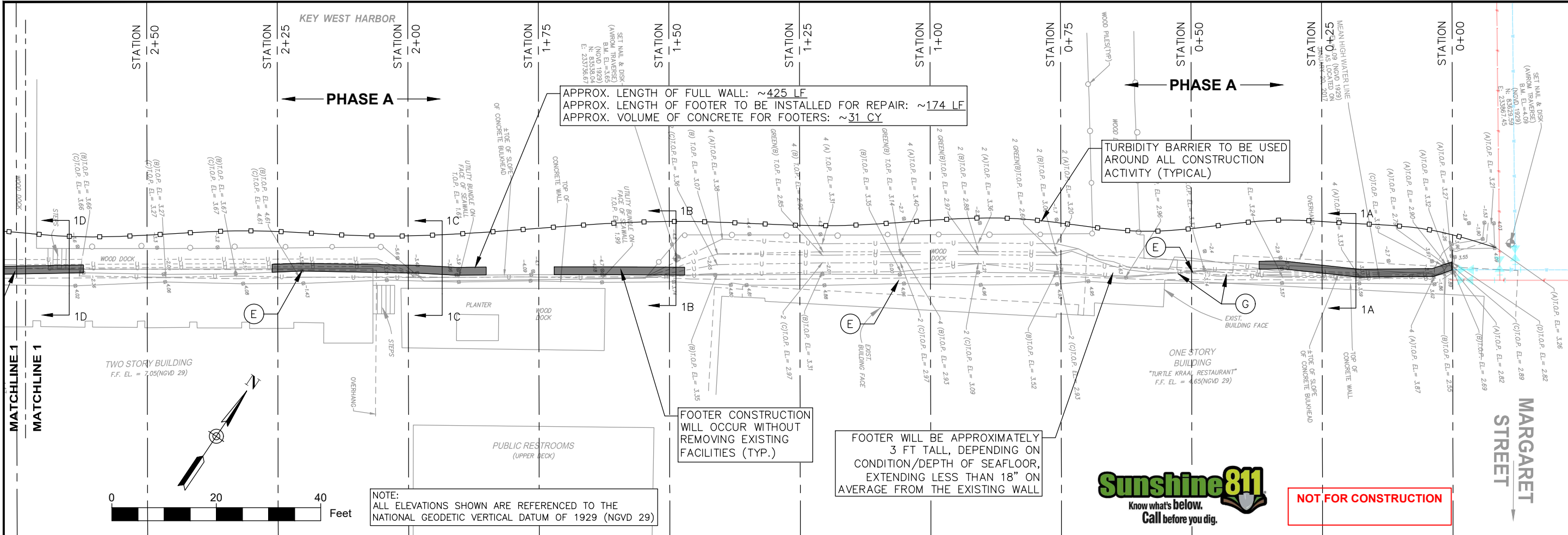


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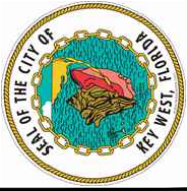
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8: \CITY OF KEY WEST\TASK 31 BIGHT SEAWALL FINAL ENGINEERING\DRAWINGS\CAD DESIGN\KWSB SEAWALL DESIGN V15.0 DWG





NOTE: SURVEY DATA PROVIDED BY AVIROM AND ASSOCIATES, INC. DATED 01/20/2017 AND 11/08/2017.
WATER/FIRE UTILITY DATA OBTAINED FROM WILSON, MILLER, BARTON, AND PEEK, INC. DATED MAY 1995.
ELECTRICAL/COMMUNICATIONS UTILITY DATA APPROXIMATED FROM WILSON, MILLER, BARTON, AND PEEK, INC. DATED OCTOBER 1995.



DAVID W. FRODISHAM, STATE OF FLORIDA
PROFESSIONAL ENGINEER, LICENSE NO. 75507

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Checked By: _____
Date: 5/16/2019
Design File No: KWB-SEAWALL-DESIGN-V5.0.DWG
Scale: AS SHOWN

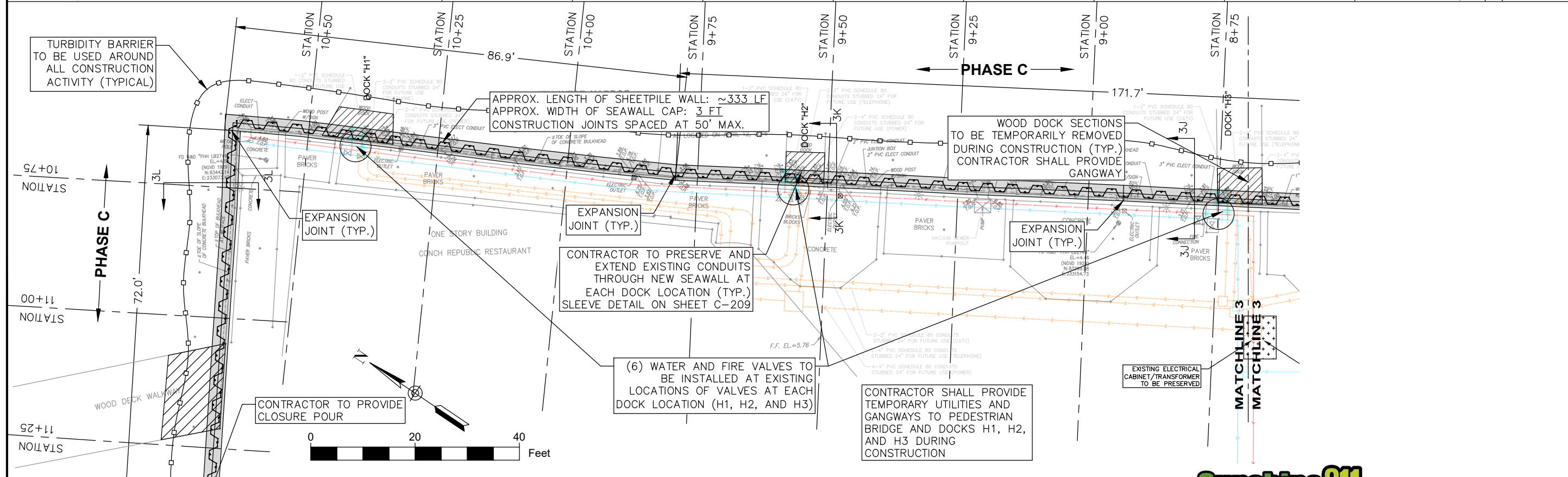
TETRA TECH INC.
759 SOUTH FEDERAL HWY
SUITE 314 34994-2936
STUART, FL 34994
TEL: (772) 781-3400
FAX: (772) 781-3410
CERTIFICATE OF AUTHORIZATION
NO. 2429

KEY WEST HISTORIC SEAPORT
SEAWALL REPAIR AND REPLACEMENT

SEAWALL REPAIR DESIGN PLAN

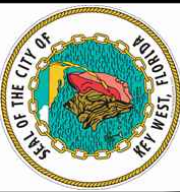
KEY WEST, MONROE COUNTY, FLORIDA

Sheet Reference:
C-203
Sheet 9 of 19



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Sheet Reference:
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Sheet 10 of 19



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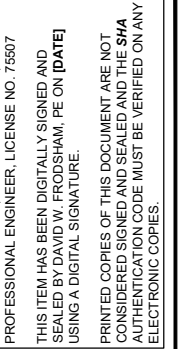
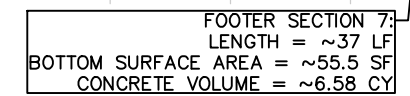
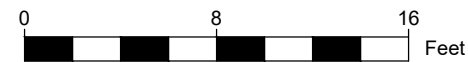
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Date:	5/6/2019
Design file no:	KWB SEAWALL_DESIGN_V5.0.DWG
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KEY WEST HISTORIC SEAPORT
SEAWALL REPAIR AND REPLACEMENT
SEAWALL REPAIR DESIGN PLAN
KEY WEST, MONROE COUNTY, FLORIDA

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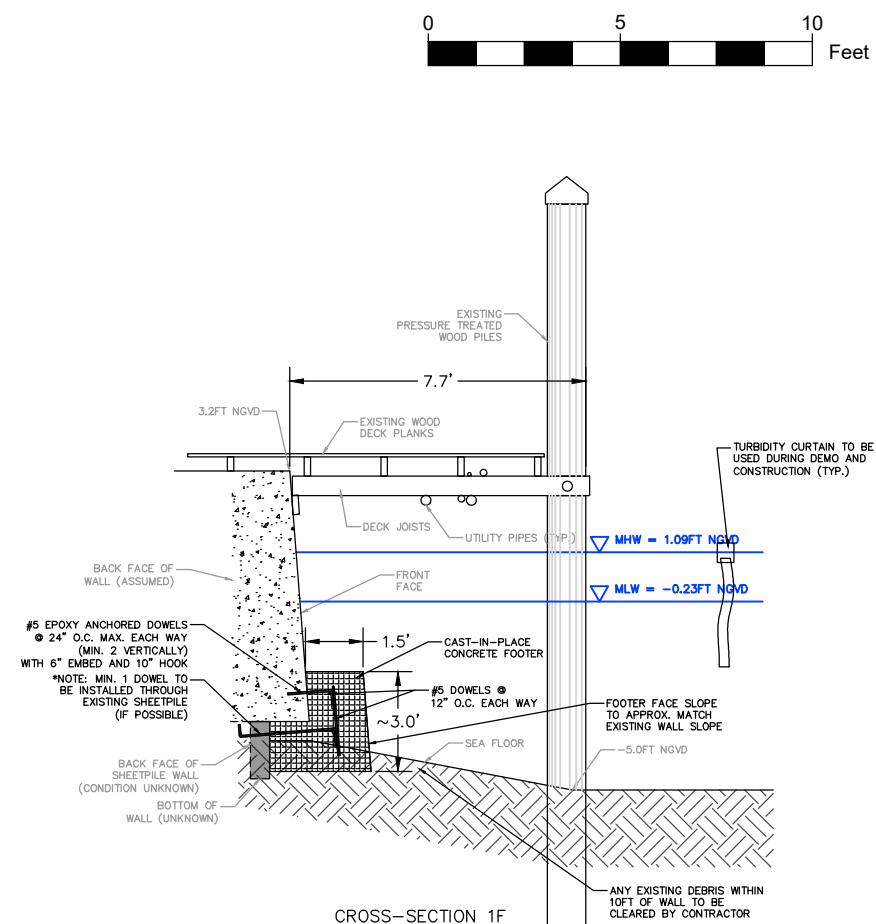
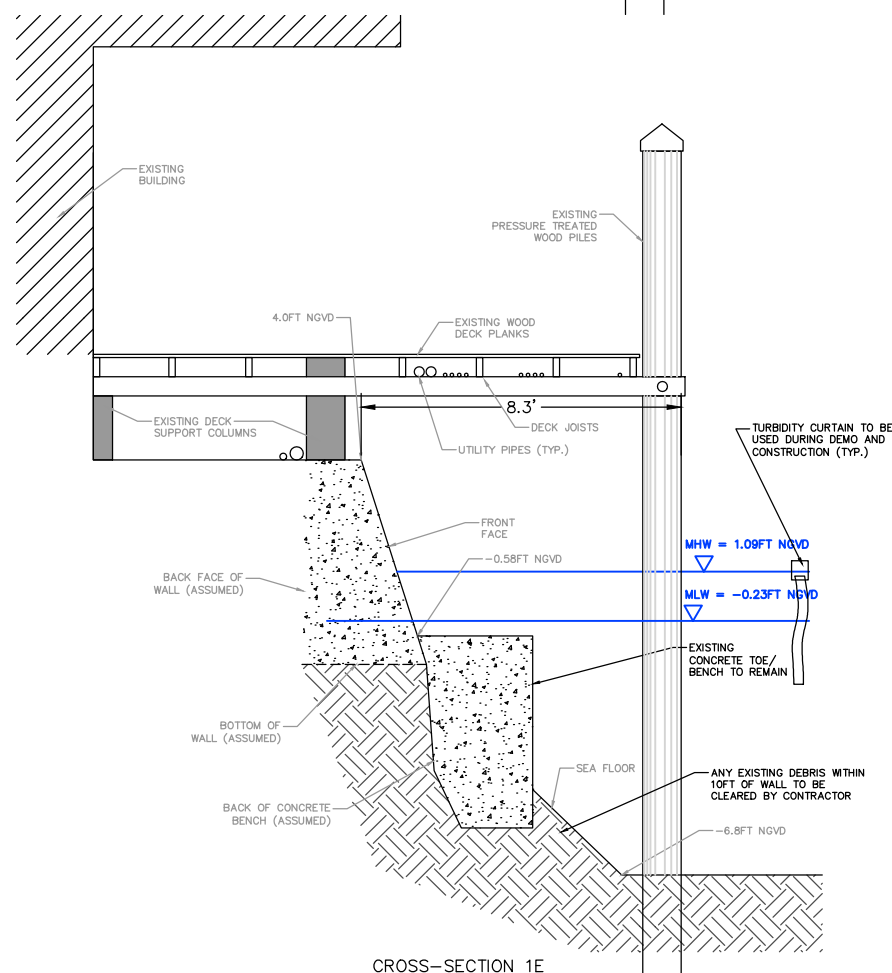
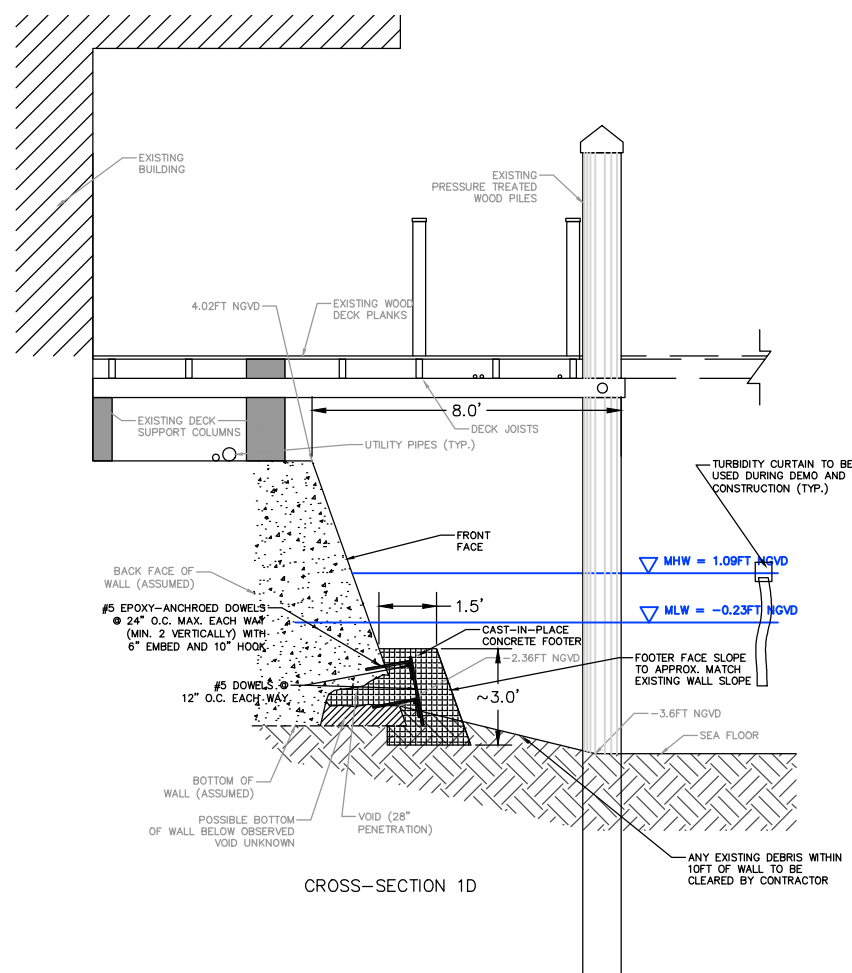
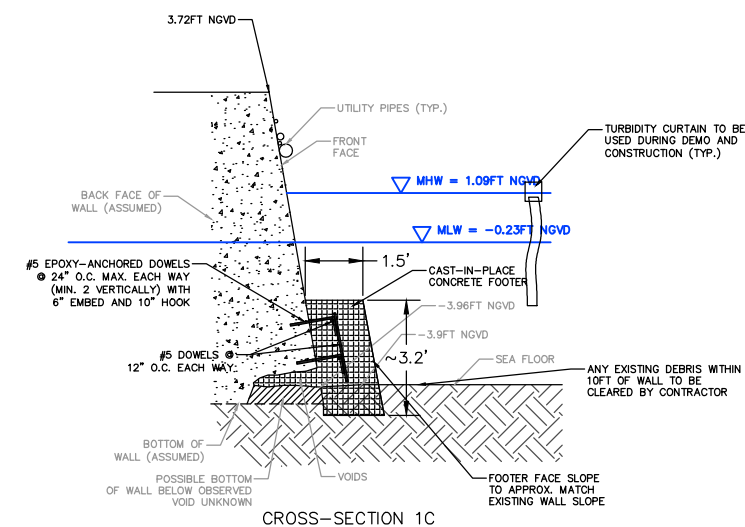
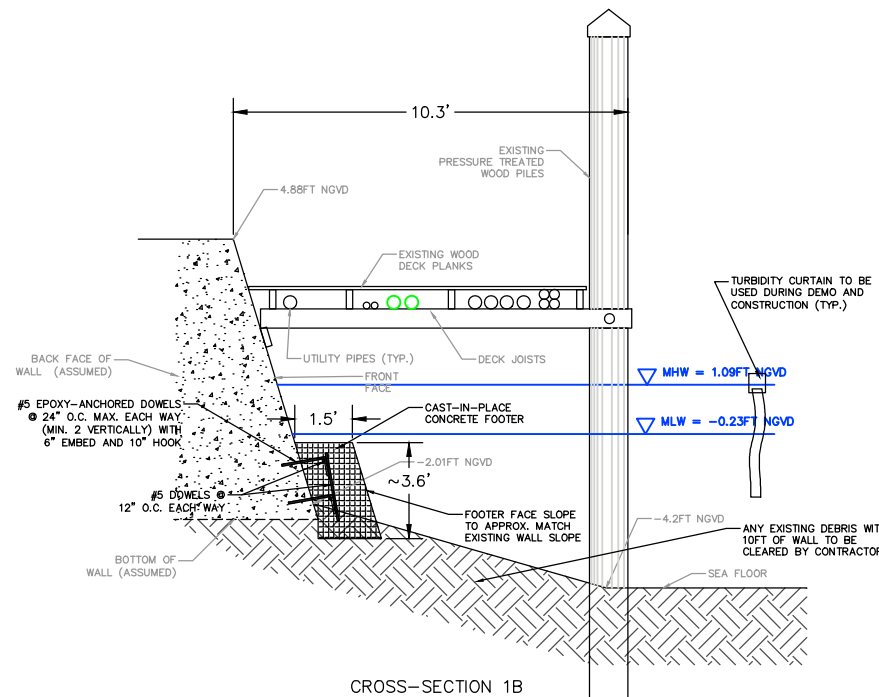
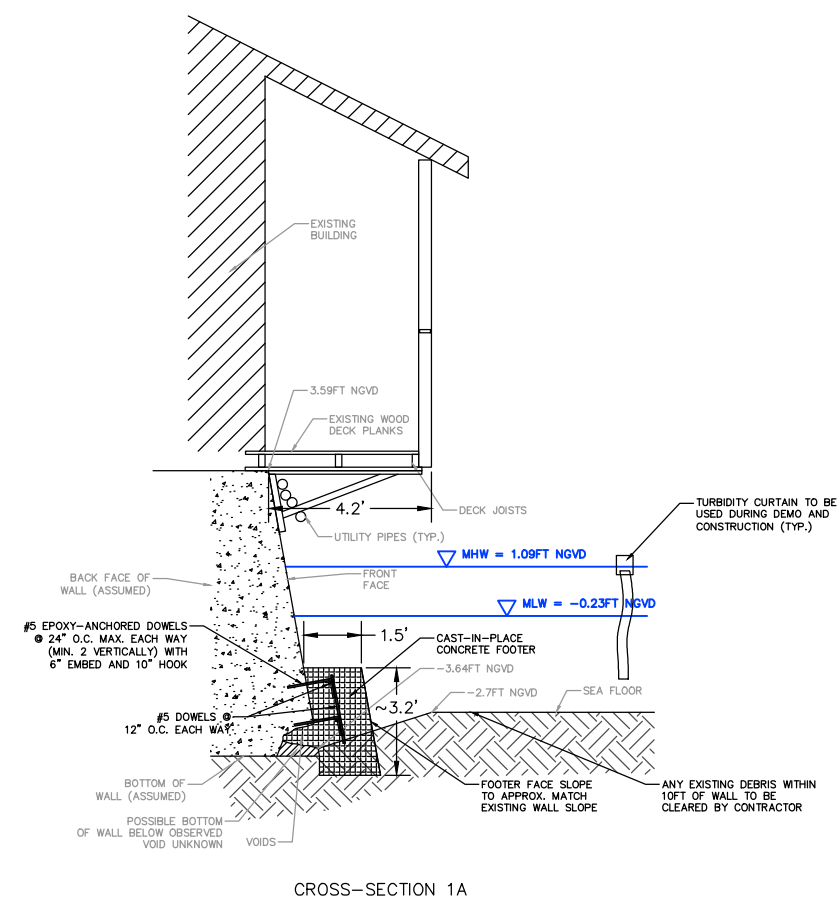
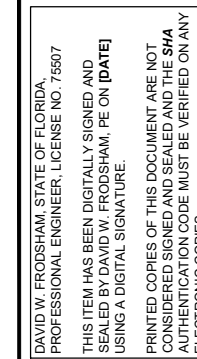
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KEY WEST HISTORIC SEAPORT
SEAWALL REPAIR AND REPLACEMENT
PHASE A - FOOTER REPAIR FRONT
KEY WEST, MONROE COUNTY, FLORIDA

Sheet Reference:
C-205
Sheet 11 of 19

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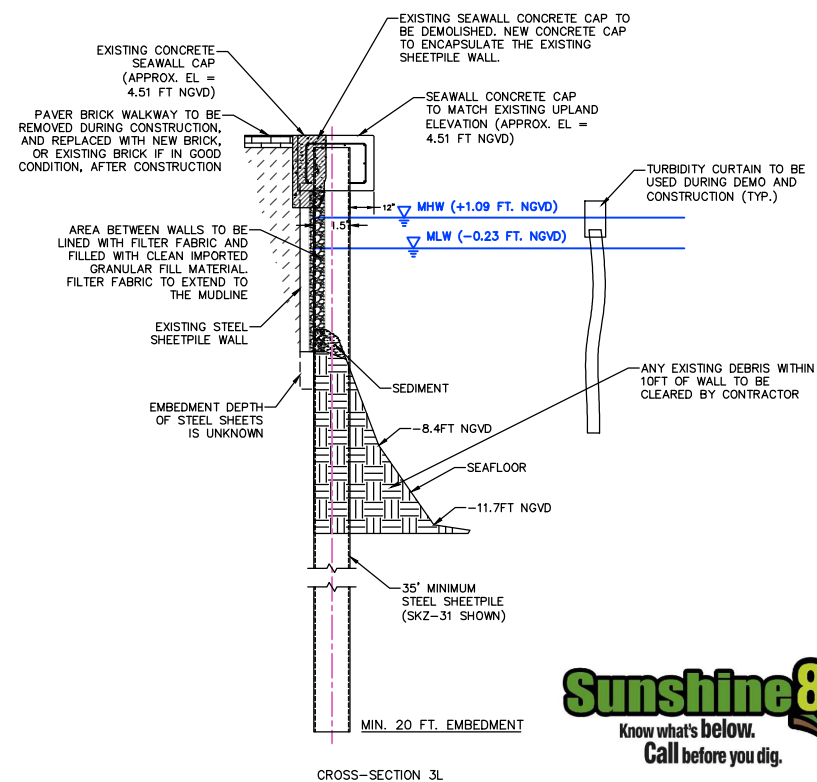
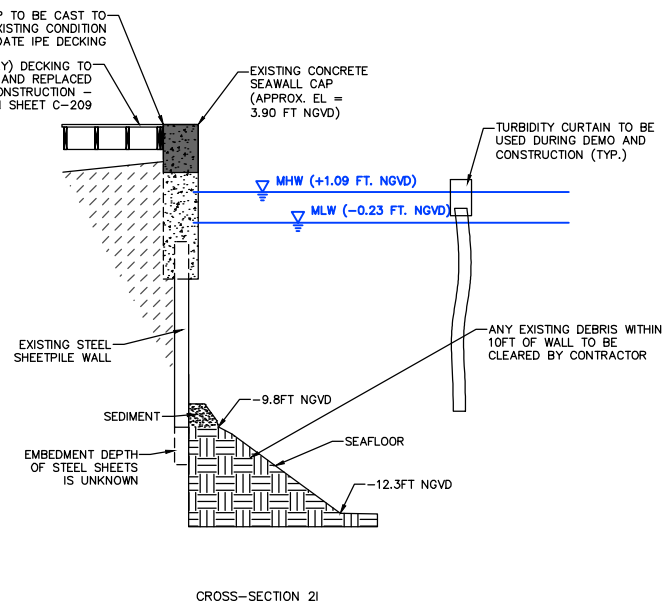
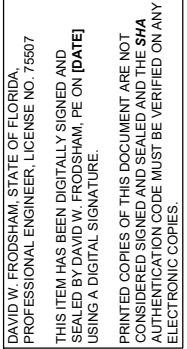
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**KEY WEST HISTORIC SEAPORT
SEAWALL REPAIR AND REPLACEMENT
SEAWALL REPAIR CROSS-SECTIONS
(PHASE A)**

Sheet Reference
C-207
Sheet 13 of 19



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**KEY WEST HISTORIC SEAPORT
SEAWALL REPAIR AND REPLACEMENT
SEAWALL REPAIR CROSS-SECTIONS
(PHASE B AND C)
KEY WEST, MONROE COUNTY, FLORIDA**

Sheet Reference:
C-208
Sheet 14 of 19

\\CITY OF KEY WEST\\TASK 31. BIGHT SEAWALL FINAL ENGINEERING\\DRAWINGS\\CAD DESIGN\\KWB SEAWALL DESIGN_V5.0.DWG



TYPICAL STEEL SHEETPILE SEAWALL:

CONCRETE CAP

- CONCRETE $f'_c = 6,000$ PSI IN 28-DAYS
- 1" CHAMFER ALL EXPOSED EDGES

SKZ-31 STEEL SHEET PILE SPECIFICATIONS

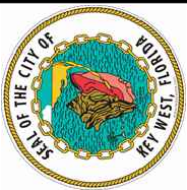
- | | |
|---------------------------|--------------------------------------|
| - WIDTH | 28.50 IN. |
| - HEIGHT | 18.00 IN. |
| - THICKNESS | 0.450 IN. |
| - SECTIONAL AREA | 9.07 SQ. IN. PER LIN. FT. |
| - WEIGHT OF PILE | 73.82 LB. PER LIN. FT. |
| - WEIGHT OF WALL | 31.08 LB. PER SQ. FT. |
| - SECTION MODULUS | 51.56 IN. ³ PER LIN. FT. |
| - MOMENT OF INERTIA | 464.05 IN. ⁴ PER LIN. FT. |
| - COATING AREA BOTH SIDES | 8.06 SQ. FT. PER LIN. FT. |



PHASE B: CAP REPAIR DETAIL



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DAVID W. FRODSHAM, STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 75507

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Checked By:

Date: 5/6/2019

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Scale:

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TETRA TECH INC.

759 SOUTH FEDERAL HWY
SUITE 314

STUART, FL 34994-2936
TEL: (772) 781-3400

FAX: (772) 781-3411

CERTIFICATE OF AUTHORIZATION
NO. 2429

15 JULY 2004



KEY WEST HISTORIC SEAPORT SEAWALL REPAIR AND REPLACEMENT

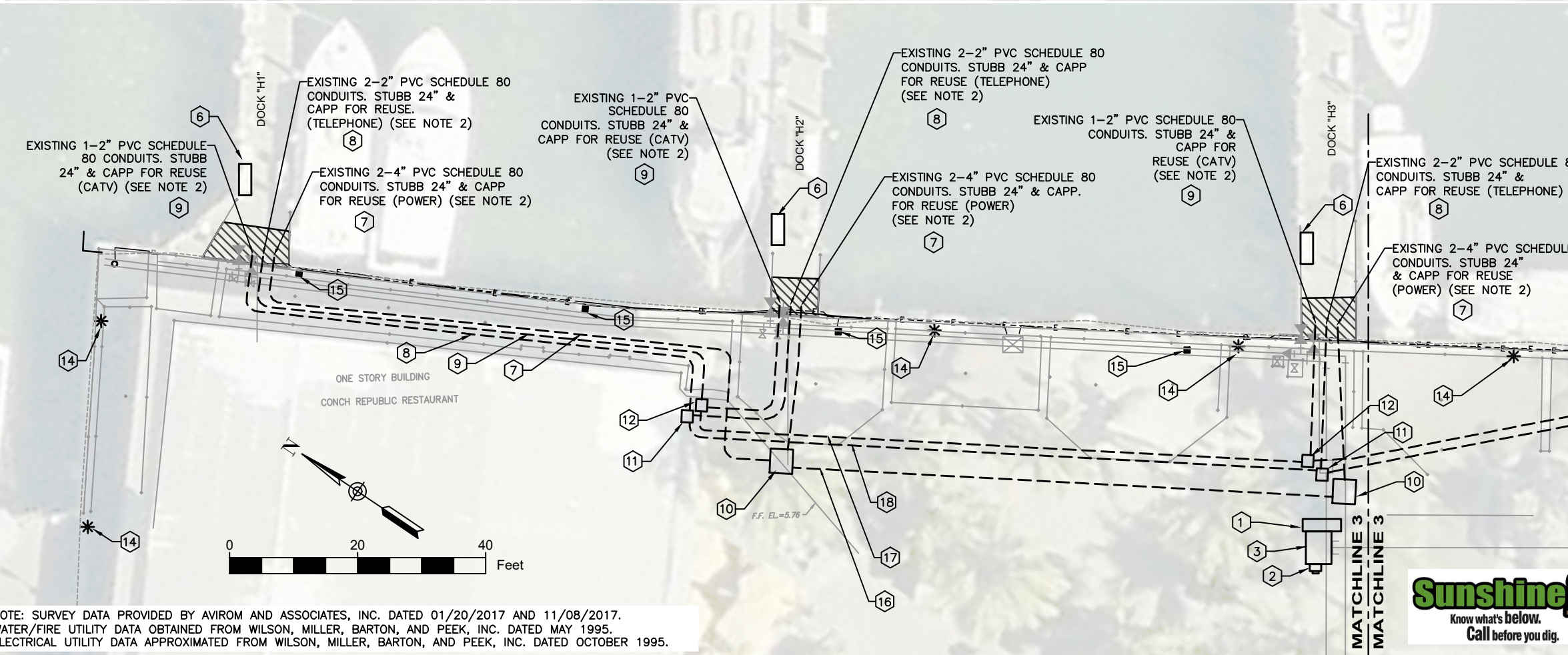
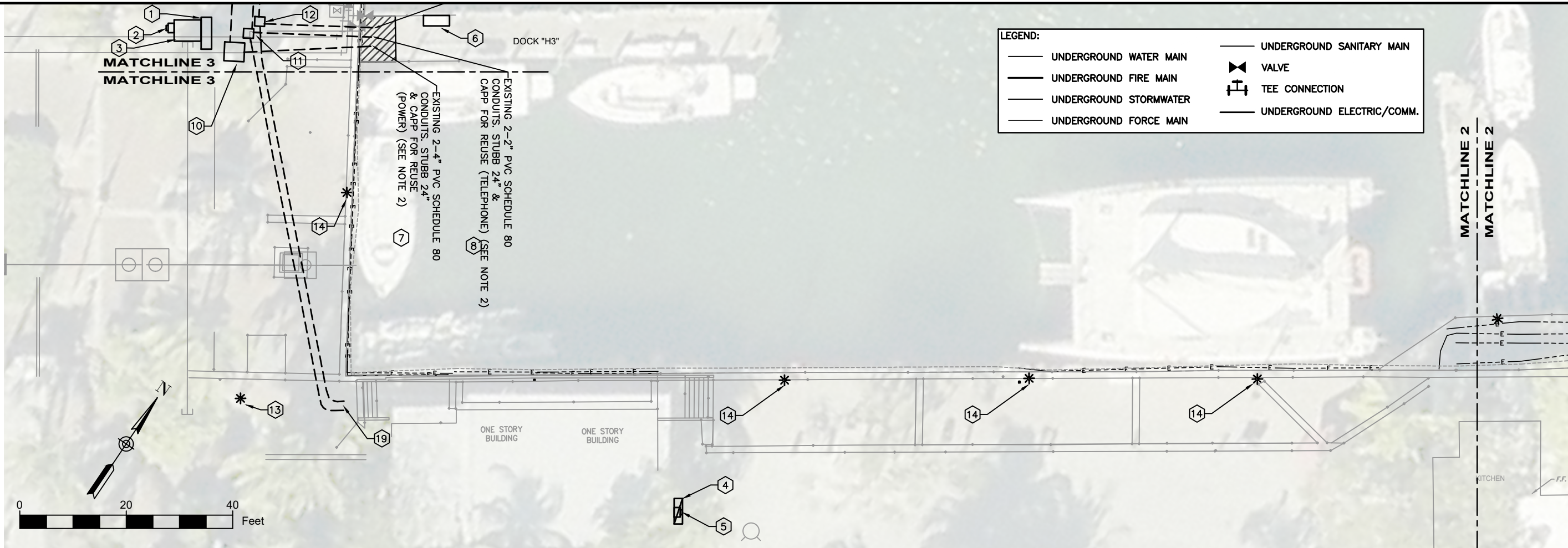
DETAILS

KEY WEST, MONROE COUNTY, FLORIDA

Sheet Reference:

C-209

Sheet 15 of 19



NOTE:
SEE DRAWING E-103 FOR KEYED NOTES

ELECTRICAL GENERAL NOTES:

- 1- CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING DURING CONSTRUCTION UNTIL COMPLETION AND REINSTALLATION OF EXISTING LIGHT POLE FIXTURES.
- 2- PROVIDE AND INSTALL A FERNCO FLEXIBLE COUPLING ON THE BACKSIDE OF THE SEAWALL WHERE UTILITIES RUN THROUGH SLEEVE PENETRATIONS TO PREVENT SOIL FROM MIGRATING THROUGH THE SLEEVE. COUPLING SHALL TIE THE SLEEVE TO THE PENETRATING CONDUIT AND SEAL THE ANNULAR SPACE.



SEC Smith Engineering Consultants, Inc.
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West Palm Beach, FL 33409
(561) 616-3911 fax (561) 616-3912
WWW.SMITHENGINEERINGCONSULTANTS.COM

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LARRY M. SMITH
Florida PE No. 45997

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	TEL: (772) 781-3400	FAX: (772) 781-3411				
	DATE: 2/26/2019	DESIGN FILE NO:	SEC-2018-18041			
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**KEY WEST HISTORIC SEAPORT
SEAWALL REPAIR AND REPLACEMENT**

ELECTRICAL PLANS

KEY WEST, MONROE COUNTY, FLORIDA

Sheet Reference:

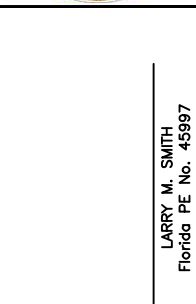
E-102

Sheet 17 of 19

- 1 EXISTING OFFSHORE BOX CONTAINING DISTRIBUTION PANEL (3 SUB MAINS) 480/277VAC, 3Ø, 4W, 400AMPS THAT FEEDS EXISTING DOCKS 'H1', 'H2' AND 'H3' POWER BOXES TO REMAIN.
- 2 EXISTING KEYES METER TO REMAIN.
- 3 EXISTING KEYES TRANSFORMER TO REMAIN.
- 4 EXISTING DOCK LIGHTING AND PEDESTAL PANEL (MAIN 1 OF 1), 120/240VAC, 1Ø, 250AMPS FEEDING DOCK LIGHTS TO REMAIN.
- 5 EXISTING KEYES METER ABOVE PANEL TO REMAIN.
- 6 EXISTING POWER BOX TO REMAIN. BEFORE COMMENCING CONSTRUCTION WORK, INTERCEPT EXISTING POWER, LIGHTING, TELEPHONE AND CATV CIRCUITS AT LOCATIONS OUTSIDE OF WORK AREA TO PROVIDE UNINTERRUPTED UTILITY SERVICE TO THIS EXISTING POWER BOX FEEDING EXISTING POWER PEDESTALS, LIGHTING, CATV AND TELEPHONE SERVICES ON DOCKS 'H1', 'H2' AND 'H3'.
- 7 EXISTING 2-4" PVC SCHEDULE 80 CONDUITS STUBBED UP FOR POWER AND LIGHTING SERVICE DURING CONSTRUCTION PHASE. WHEN CONDUITS ARE INSTALLED, INTERCEPT EXISTING CONDUIT CONNECTED TO EXISTING POWER BOX AND REMOVE TEMPORARY CONNECTION AS MENTION IN KEY NOTE #6 ABOVE. MAKE ALL CONNECTIONS NECESSARY FOR COMPLETE WORKING SYSTEM IN PLACE.
- 8 EXISTING 2-2" PVC SCHEDULE 80 CONDUITS STUBBED UP FOR TELEPHONE SERVICE DURING CONSTRUCTION PHASE. WHEN CONDUITS ARE INSTALLED, INTERCEPT EXISTING CONDUIT CONNECTED TO EXISTING POWER BOX AND REMOVE TEMPORARY CONNECTION AS MENTION IN KEY NOTE #6 ABOVE. MAKE ALL CONNECTIONS NECESSARY FOR COMPLETE WORKING SYSTEM IN PLACE.
- 9 EXISTING 1-2" PVC SCHEDULE 80 CONDUITS STUBBED UP FOR CATV SERVICE DURING CONSTRUCTION PHASE. WHEN CONDUITS ARE INSTALLED, INTERCEPT EXISTING CONDUIT CONNECTED TO EXISTING POWER BOX AND REMOVE TEMPORARY CONNECTION AS MENTION IN KEY NOTE #6 ABOVE. MAKE ALL CONNECTIONS NECESSARY FOR COMPLETE WORKING SYSTEM IN PLACE.
- 10 EXISTING IN GROUND MANHOLE BOX 36"x36"x36", TRAFFIC RATED FOR POWER AND LIGHTING SERVICE. CONTRACTOR SHALL REPAIR/REPLACE METAL FRAMING SUPPORTING LIDS ON BOXES AND RAISE TO GRADE LEVEL.
- 11 EXISTING IN GROUND HAND HOLE BOX 16"x24"x24", TRAFFIC RATED FOR TELEPHONE SERVICE. CONTRACTOR SHALL REPAIR/REPLACE METAL FRAMING SUPPORTING LIDS ON BOXES AND RAISE TO GRADE LEVEL.
- 12 EXISTING IN GROUND HAND HOLE BOX 16"x24"x24", TRAFFIC RATED FOR CATV SERVICE. CONTRACTOR SHALL REPAIR/REPLACE METAL FRAMING SUPPORTING LIDS ON BOXES AND RAISE TO GRADE LEVEL.
- 13 EXISTING LIGHT POLE AND LIGHT FIXTURE TO BE REINSTALLED DURING FINALIZATION OF DOCK WORK. INTERCEPT EXISTING LIGHT CONDUIT AND CIRCUIT OUTSIDE OF DOCK WORK AREA AND INSTALL NEW CONDUIT TO SAME EXISTING LIGHTING PANEL. MAKE ALL CONNECTIONS NECESSARY FOR COMPLETE WORKING SYSTEM IN PLACE.
- 14 EXISTING LIGHT POLE AND LIGHT FIXTURE TO BE REINSTALLED DURING FINALIZATION OF DOCK WORK. INTERCEPT EXISTING LIGHT CONDUIT AND CIRCUIT OUTSIDE OF DOCK WORK AREA. MAKE ALL CONNECTIONS NECESSARY FOR COMPLETE WORKING SYSTEM IN PLACE.
- 15 EXISTING POWER PEDESTALS TO BE REINSTALLED DURING FINALIZATION OF DOCK WORK. INTERCEPT EXISTING POWER CONDUIT AND CIRCUIT OUTSIDE OF DOCK WORK AREA. MAKE ALL CONNECTIONS NECESSARY FOR COMPLETE WORKING SYSTEM IN PLACE.
- 16 EXISTING 4-4" PVC SCHEDULE 80 CONDUITS STUBBED UP FOR POWER AND LIGHTING SERVICE DURING CONSTRUCTION PHASE. WHEN CONDUITS ARE INSTALLED, INTERCEPT EXISTING CONDUIT CONNECTED TO EXISTING POWER BOX AND REMOVE TEMPORARY CONNECTION AS MENTION IN KEY NOTE #6 ABOVE. MAKE ALL CONNECTIONS NECESSARY FOR COMPLETE WORKING SYSTEM IN PLACE.
- 17 EXISTING 2-4" PVC SCHEDULE 80 CONDUITS STUBBED UP FOR TELEPHONE SERVICE DURING CONSTRUCTION PHASE. WHEN CONDUITS ARE INSTALLED, INTERCEPT EXISTING CONDUIT CONNECTED TO EXISTING POWER BOX AND REMOVE TEMPORARY CONNECTION AS MENTION IN KEY NOTE #6 ABOVE. MAKE ALL CONNECTIONS NECESSARY FOR COMPLETE WORKING SYSTEM IN PLACE.
- 18 EXISTING 2-2" PVC SCHEDULE 80 CONDUITS STUBBED UP FOR CATV SERVICE DURING CONSTRUCTION PHASE. WHEN CONDUITS ARE INSTALLED, INTERCEPT EXISTING CONDUIT CONNECTED TO EXISTING POWER BOX AND REMOVE TEMPORARY CONNECTION AS MENTION IN KEY NOTE #6 ABOVE. MAKE ALL CONNECTIONS NECESSARY FOR COMPLETE WORKING SYSTEM IN PLACE.
- 19 CONDUITS CONTINUE TO PULL BOXES NO. 7 AND 8, WHICH ARE NOT IN SCOPE OF THIS PROJECT.

[illegible]

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SH/FR

Drawn By:
FR

Checked By:
LMS

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KEY WEST HISTORIC SEAPORT
SEAWALL REPAIR AND REPLACEMENT
ELECTRICAL NOTES AND DETAILS
KEY WEST, MONROE COUNTY, FLORIDA

Sheet Reference:
E-103
Sheet 18 of 19

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1. THE SCOPE OF WORK SHALL CONSIST PRIMARILY OF THE FOLLOWING:

-
- The diagram illustrates the electrical layout for the dock lighting system. It shows the power source (Existing Keyes Energy Meter and Transformer) connected to an existing panel labeled "DOCK LIGHTS & PEDESTAL" (120/240VAC, 1PH, 250 AMPS, MCB, NEMA 3R). The panel feeds into a series of conduits (labeled 5) that run along the dock level. These conduits connect to J-boxes (labeled 3) and power pedestals (labeled 4). The pedestals are connected to light poles (labeled 1). The diagram also shows existing groundings (labeled 2) and the dock level relative to the water.
- EXISTING BUILDING WALL STRUCTURE**
- EXISTING KEYES ENERGY METER
- FROM EXISTING KEYES ENERGY UTILITY TRANSFORMER
- EXISTING PANEL
"DOCK LIGHTS & PEDESTAL"
120/240VAC,
1PH
250 AMPS,
MCB
(EXIST. TO REMAIN)
(NEMA 3R)
- EXISTING GROUNDING. VERIFY AND SUPPLEMENT AS NECESSARY.
- EXISTING DOCK SEAWALL
- DOCK LEVEL
- WATER
- WATER
- WATER
- WATER
- 1 EXISTING CIRCUIT, CONDUIT AND CONDUCTORS FOR EXISTING LIGHT POLES. REPLACE CONDUIT AND CONDUCTORS DURING SEAWALL REPAIR PHASE WITH SAME SIZES.
- 2 EXISTING CIRCUIT, CONDUIT AND CONDUCTORS FOR EXISTING POWER PEDESTALS. REPLACE CONDUIT AND CONDUCTORS FOR POWER AND TELEPHONE SERVICE DURING SEAWALL REPAIR PHASE WITH SAME SIZES.
- 3 EXISTING J-BOXES. PROVIDE NEW ONES SAME SIZE FOR REINSTALLATION OF PEDESTALS.
- 4 EXISTING POWER PEDESTALS TO BE REINSTALLED AFTER COMPLETION OF SEAWALL RETROFIT.
- 5 EXISTING LIGHT POLES TO BE REINSTALLED AFTER COMPLETION OF SEAWALL RETROFIT.

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**SEAWALL REPAIR AND REPLACEMENT
ELECTRICAL SPECS AND RISER DIAGRAMS
KEY WEST, MONROE COUNTY, FLORIDA**

Sheet Reference:

E-104

Sheet 19 of 19