

CONSTRUCTION AGREEMENT**Construction Agreement No.:** _____

THIS CONSTRUCTION AGREEMENT (this “Agreement”) is made and entered into by and between the State of Florida, Department of Transportation, (3400 West Commercial Blvd, Ft. Lauderdale FL 33309) (hereinafter referred to as the “DEPARTMENT”) and The City of Fort Lauderdale at 100 N. Andrews Avenue, Fort Lauderdale FL 33301 (hereinafter referred to as the “Construction Coordinator”).

WITNESSETH:

WHEREAS, the DEPARTMENT is authorized and required by Section 334.044(13), Florida Statutes, to coordinate the planning, development, and operation of the State Highway System; and

WHEREAS, pursuant to Section 339.282, Florida Statutes, the DEPARTMENT may contract with a property owner to finance, construct, and improve public transportation facilities; and

WHEREAS, the Construction Coordinator proposes to construct certain improvements to
SR 842 _____ Section 86050 _____ Subsection 000 /000 _____ from Begin MP 1.959 _____ to End MP 2.039 Local Name Las
Olas Blvd. _____ located in Broward County (hereinafter referred to as the “Project”); and

WHEREAS, the parties desire to enter into this Agreement for the Construction Coordinator to make improvements within the DEPARTMENT’S right of way to construct the Project, which will become the property of the Department upon acceptance of the work.

NOW, THEREFORE, based on the premises above, and in consideration of the mutual covenants contained herein, the parties hereby agree that the construction of the Project shall proceed in accordance with the following terms and conditions:

1. The recitals set forth above are specifically incorporated herein by reference and made a part of this Agreement. The Construction Coordinator is authorized, subject to the conditions set forth herein, to enter the DEPARTMENT’S right of way to perform all activities necessary for the construction of **See attached exhibit A scope of services/special provisions.**

2. The Project shall be designed and constructed in accordance with the latest edition of the DEPARTMENT’S Standard Specifications for Road and Bridge Construction and DEPARTMENT Design Standards and Manual of Uniform Traffic Control Devices (“MUTCD”). The following guidelines shall apply as deemed appropriate by the DEPARTMENT: the DEPARTMENT Structures Design Manual, AASHTO Guide Specifications for the Design of Pedestrian Bridges, AASHTO LRFD Bridge Design Specifications, and the DEPARTMENT Plans Preparation Manual (“PPM”) Manual for Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (the “Florida Green Book”) and the DEPARTMENT Traffic Engineering Manual. The Construction Coordinator will be required to submit any construction plans required by the DEPARTMENT for review and approval prior to any work being commenced. Should any changes to the plans be required during construction of the Project, the Construction Coordinator shall be required to notify the DEPARTMENT of the changes and receive approval from the DEPARTMENT prior to the changes being constructed. The Construction Coordinator shall maintain the area of the project at all times and coordinate any work needs of the DEPARTMENT during construction of the project.

3. The Construction Coordinator shall notify the DEPARTMENT a minimum of 48 hours before beginning construction within DEPARTMENT right of way. The Construction Coordinator shall notify the DEPARTMENT should construction be suspended for more than 5 working days.

4. Pursuant to Section 7-13 of the DEPARTMENT Standard Specifications, the Construction Coordinator is required to possess a general liability insurance naming the DEPARTMENT as an additional insured and insuring the DEPARTMENT and the Construction Coordinator against any and all claims for injury or damage to persons and property, and for the loss of life or property that may occur (directly or indirectly) by reason of the Construction Coordinator accessing DEPARTMENT right of way and the Construction Coordinator’s performance of the Project. Such amount shall be carried in a minimum amount of not less than Zero _____ and 00/100 Dollars (\$0.00 _____) for bodily injury or death to any one person or any number of persons in any one occurrence, and not less than Zero _____ and 00/100 Dollars (\$ 0.00 _____) for property damage, or a combined coverage of not less than Zero _____ and 00/100 Dollars (\$ 0.00 _____). Additionally, the Construction Coordinator shall supply the DEPARTMENT with a payment and performance bond in the amount of the estimated cost of construction, provided by a surety authorized to do business in the State of Florida, payable to the DEPARTMENT. The bond and insurance shall remain in effect until completion of construction and acceptance by the DEPARTMENT. Prior to commencement of the Project and on such other occasions as the DEPARTMENT may reasonably require, the Construction Coordinator shall provide the DEPARTMENT with certificates documenting that the required insurance coverage is in place and effective. If the Construction Coordinator is a governmental entity they will be exempt from these requirements.

5. The Construction Coordinator shall be responsible for monitoring construction operations and the maintenance of traffic (“MOT”) throughout the course of the project in accordance with the latest edition of the DEPARTMENT Standard Specifications, section 102. The Construction Coordinator is responsible for the development of a MOT plan and making any changes to that plan as necessary. The MOT plan shall be in accordance with the latest version of the DEPARTMENT Design Standards, Index 600 series. Any MOT plan developed by the Construction Coordinator that deviates from the DEPARTMENT Design Standards must be signed and sealed by a professional engineer. MOT plans will require approval by the DEPARTMENT prior to implementation.

6. The Construction Coordinator shall be responsible for locating all existing utilities, both aerial and underground, and for ensuring that all utility locations be accurately documented on the construction plans. All utility conflicts shall be fully resolved directly with the applicable utility.

7. The Construction Coordinator will be responsible for obtaining all permits that may be required by other agencies or local governmental entities.

8. It is hereby agreed by the parties that this Agreement creates a permissive use only and all improvements resulting from this agreement shall become the property of the DEPARTMENT. Neither the granting of the permission to use the DEPARTMENT right of way nor the placing of facilities upon the DEPARTMENT property shall operate to create or vest any property right to or in the Construction Coordinator, except as may otherwise be provided in separate agreements. The Construction Coordinator shall not acquire any right, title, interest or estate in DEPARTMENT right of way, of any nature or kind whatsoever, by virtue of the execution, operation, effect, or performance of this Agreement including, but not limited to, the Construction Coordinator's use, occupancy or possession of DEPARTMENT right of way. The parties agree that this Agreement does not, and shall not be construed to, grant credit for any future transportation concurrency requirements pursuant to chapter 163, Florida Statutes.

9. The Construction Coordinator shall perform all required testing associated with the design and construction of the project. Testing results shall be made available to the DEPARTMENT upon request. The DEPARTMENT shall have the right to perform its own independent testing during the course of the Project.

10. The Construction Coordinator shall exercise the rights granted herein and shall otherwise perform this Agreement in a good and workmanlike manner, with reasonable care, in accordance with the terms and provisions of this Agreement and all applicable federal, state, local, administrative, regulatory, safety and environmental laws, codes, rules, regulations, policies, procedures, guidelines, standards and permits, as the same may be constituted and amended from time to time, including, but not limited to, those of the DEPARTMENT, applicable Water Management District, Florida Department of Environmental Protection, Environmental Protection Agency, the Army Corps of Engineers, the United States Coast Guard and local governmental entities.

11. If the DEPARTMENT determines a condition exists which threatens the public's safety, the DEPARTMENT may, at its discretion, cause construction operations to cease and immediately have any potential hazards removed from its right of way at the sole cost, expense, and effort of the Construction Coordinator. The Construction Coordinator shall bear all construction delay costs incurred by the DEPARTMENT.

12. All work and construction shall be completed within 365 days of the date of the last signature affixed to this agreement. If construction is not completed within this time, the DEPARTMENT may make a claim on the bond. The DEPARTMENT may terminate this Agreement at any time, with or without cause and without DEPARTMENT liability to the Construction Coordinator, by providing sixty (60) days prior written notice of termination to the Construction Coordinator.

13. The Construction Coordinator shall be responsible to maintain and restore all features that might require relocation within the DEPARTMENT right of way.

14. The Construction Coordinator will be responsible for clean up or restoration required to correct any environmental or health hazards that may result from construction operations.

15. Upon completion of construction, the Construction Coordinator will be required to submit to the DEPARTMENT final as-built plans and an engineering certification that construction was completed in accordance to the plans. Prior to the termination of this Agreement, the Construction Coordinator shall remove its presence, including, but not limited to, all of the Construction Coordinator's property, machinery, and equipment from DEPARTMENT right of way and shall restore those portions of DEPARTMENT right of way disturbed or otherwise altered by the Project to substantially the same condition that existed immediately prior to the commencement of the Project.

16. If the DEPARTMENT determines that the Project is not completed in accordance with the provisions of this Agreement, the DEPARTMENT shall deliver written notification of such to the Construction Coordinator. The Construction Coordinator shall have thirty (30) days from the date of receipt of the DEPARTMENT'S written notice, or such other time as the Construction Coordinator and the DEPARTMENT mutually agree to in writing, to complete the Project and provide the DEPARTMENT with written notice of the same (the "Notice of Completion"). If the Construction Coordinator fails to timely deliver the Notice of Completion, or if it is determined that the Project is not properly completed after receipt of the Notice of Completion, the DEPARTMENT, within its discretion may: 1) provide the Construction Coordinator with written authorization granting such additional time as the DEPARTMENT deems appropriate to correct the deficiency(ies); or 2) correct the deficiency(ies) at the Construction Coordinator's sole cost and expense, without DEPARTMENT liability to the Construction Coordinator for any resulting loss or damage to property, including, but not limited to, machinery and equipment. If the DEPARTMENT elects to correct the deficiency(ies), the DEPARTMENT shall provide the Construction Coordinator with an invoice for the costs incurred by the DEPARTMENT and the Construction Coordinator shall pay the invoice within thirty (30) days of the date of the invoice.

17. Nothing in this Agreement shall be deemed or otherwise interpreted as waiving the DEPARTMENT'S sovereign immunity protections, or as increasing the limits of liability as set forth in Section 768.28, Florida Statutes. The DEPARTMENT'S liability for breach of this Agreement is limited in amount and shall not exceed the limitations of liability for tort actions as set forth in Section 768.28(5), Florida Statutes.

18. All formal notices, proposed changes and determinations between the parties hereto and those required by this Agreement, including, but not limited to, changes to the notification addresses set forth below, shall be in writing and shall be sufficient if mailed by regular United States mail, postage prepaid, to the parties at the contact information listed below.

19. The Construction Coordinator shall not cause any liens or encumbrances to attach to any portion of DEPARTMENT right of way.

20. This Agreement shall be governed by the laws of the State of Florida in terms of interpretation and performance. Venue for any and all actions arising out of or in any way related to the interpretation, validity, performance or breach of this Agreement shall lie exclusively in a state court of appropriate jurisdiction in Leon County, Florida.

21. The Construction Coordinator may not assign, pledge or transfer any of the rights, duties and obligations provided in this Agreement without the prior written consent of the DEPARTMENT'S District Secretary or his/her designee. The DEPARTMENT has the sole discretion and authority to grant or deny proposed assignments, with or without cause. Nothing herein shall prevent the Construction Coordinator from delegating its duties hereunder, but such delegation shall not release the Construction Coordinator from its obligation to perform this Agreement.

22. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns. Nothing in this Agreement is intended to confer any rights, privileges, benefits, obligations or remedies upon any other person or entity except as expressly provided for herein.

23. This instrument, together with the attached exhibits and documents made part hereof by reference, contain the entire agreement of the parties and no representations or promises have been made except those that are specifically set out in this Agreement. All prior and contemporaneous conversations, negotiations, possible and alleged agreements and representations, covenants, and warranties with respect to the subject matter of this Agreement, and any part hereof, are waived, merged herein and superseded hereby.

24. By their signature below, the parties hereby acknowledge the receipt, adequacy and sufficiency of consideration provided in this Agreement and forever waive the right to object to or otherwise challenge the same.

25. The failure of either party to insist on one or more occasions on the strict performance or compliance with any term or provision of this Agreement shall not be deemed a waiver or relinquished in the future of the enforcement thereof, and it shall continue in full force and effect unless waived or relinquished in writing by the party seeking to enforce the same.

26. No term or provision of this Agreement shall be interpreted for or against any party because that party or that party's legal representative drafted the provision.

27. If any section, paragraph, clause or provision of this Agreement is adjudged by a court, agency or authority of competent jurisdiction to be invalid, illegal or otherwise unenforceable, all remaining parts of this Agreement shall remain in full force and effect and the parties shall be bound thereby so long as principle purposes of this Agreement remain enforceable.

28. A modification or waiver of any of the provisions of this Agreement shall be effective only if made in writing and executed with the same formality as this Agreement.

29. The Construction Coordinator agrees to promptly indemnify, defend, save and hold harmless the DEPARTMENT and all of its officers, agents and employees from and pay all demands, claims, judgments, liabilities, damages, fines, fees, taxes, assessments, penalties, costs, expenses, attorneys' fees and suits of any nature or kind whatsoever caused by, or arising out of or related to the performance or breach of this Agreement by the Construction Coordinator, including, without limitation, performance of the Project within the DEPARTMENT'S right of way. The term "liabilities" shall specifically include, without limitation, any act, action, neglect or omission by the Construction Coordinator, its officers, agents, employees or representatives in any way pertaining to this Agreement, whether direct or indirect, except that neither the Construction Coordinator nor any of its officers, agents, employees or representatives will be liable under this provision for damages arising out of injury or damages directly caused or resulting from the sole negligence, intentional or wrongful acts of the DEPARTMENT or any of its officers, agents or employees. The Construction Coordinator shall notify the DEPARTMENT in writing immediately upon becoming aware of such liabilities. The Construction Coordinator's inability to evaluate liability, or its evaluation of liability, shall not excuse performance of the provisions of this paragraph. The indemnities assumed by the Construction Coordinator shall survive termination of this Agreement. The insurance coverage and limits required in this Agreement may or may not be adequate to protect the DEPARTMENT and such insurance coverage shall not be deemed a limitation on the Construction Coordinator's liability under the indemnities granted to the DEPARTMENT in this Agreement.

30. Construction Coordinator:

- (1) shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Construction Coordinator during the term of the contract; and
- (2) shall expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

31. COMPLIANCE WITH LAWS

The Construction Coordinator shall allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119, Florida Statutes, and made or received by the Construction Coordinator in conjunction with this Agreement. Specifically, if the Construction Coordinator is acting on behalf of a public agency the Construction Coordinator shall:

- (1) Keep and maintain public records that ordinarily and necessarily would be required by the Department in order to perform the services being performed by the Construction Coordinator.
- (2) Provide the public with access to public records on the same terms and conditions that the Department would provide the records and at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
- (3) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.
- (4) Meet all requirements for retaining public records and transfer, at no cost, to the Department all public records in possession of the Construction Coordinator upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the Department in a format that is compatible with the information technology systems of the Department. Failure by the Construction Coordinator to grant such public access shall be grounds for immediate unilateral cancellation of this Agreement by the Department. The Construction Coordinator shall promptly provide the Department with a copy of any request to inspect or copy public records in possession of the Construction Coordinator and shall promptly provide the Department a copy of the Construction Coordinator's response to each such request.

CONSTRUCTION COORDINATOR CONTACT INFORMATION

Name Tom Green Title: City of Fort Lauderdale Project Manager
Office No. 954-828-4008 Cell 954-815-1395 Email tgreen@fortlauderdale.go

Name _____ Title: Office No. _____
Cell _____ Email _____

Mail Address City of Fort Lauderdale CRA - 914 NW 6th Street, Fort Lauderdale, FL 33311

IN WITNESS WHEREOF, Construction Coordinator and the DEPARTMENT have executed this Agreement for the purposes herein expressed on the dates indicated below.

CONSTRUCTION COORDINATOR

By: _____ (Signature)

Tom Green (Print Name)

City of Fort Lauderdale Project Manager (Title)

_____ (Date)

DEPARTMENT OF TRANSPORTATION

By: _____ (Signature)

Morteza Alian (Print Name)

District 4 Maintenance Engineer (Title)

_____ (Date)

Legal Review:

EXHIBIT A

I. SCOPE OF SERVICES

The Proposed Project consists of the development of a plaza and restroom building on the north side of Las Olas Blvd and modifications to Las Olas Blvd, from SR A1A to Seabreeze Blvd. The modifications along Las Olas Blvd include raising the roadway to provide flush sidewalks and modifying the existing drainage as needed; generating the need of a construction agreement.

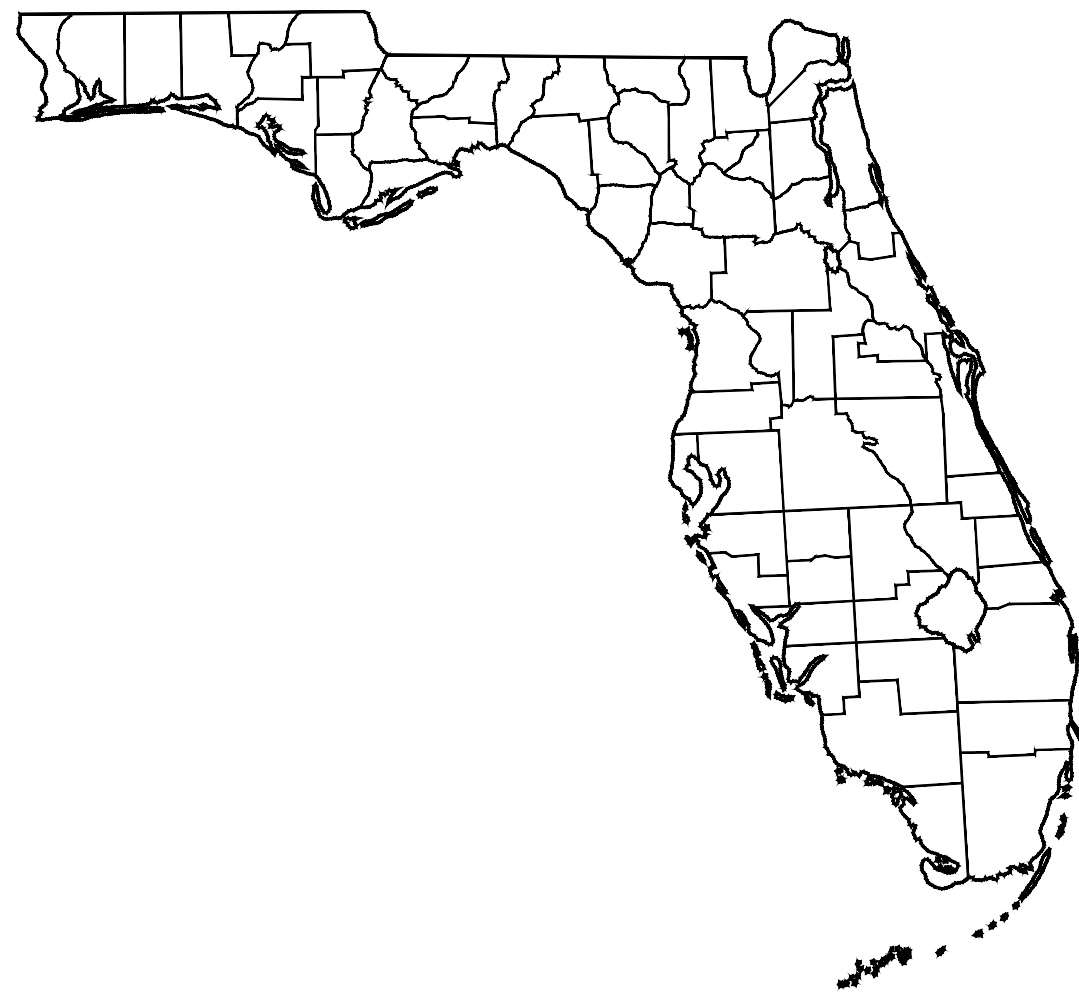
II. PROJECT PLANS

The Construction Coordinator is authorized to install the Project in accordance with the attached plans prepared by Jason A. Webber, P.E. and dated 01/16/2018. Any revisions must be approved by the DEPARTMENT in writing.

III. SPECIAL PROVISIONS FOR CONSTRUCTION

Add special conditions that apply to the proposed improvements (i.e. pre-construction conference required, agreement subject to Construction Coordinator obtaining all necessary permits from other agencies, submit as-built plans, etc.)

The document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



PROJECT LOCATION

PROJECT TEAM

CIVIL ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
1615 SOUTH CONGRESS AVENUE, SUITE 201
DELRAY BEACH, FL 33445
PHONE: (561) 330-2345
CONTACT: JASON WEBER, P.E.

LANDSCAPE ARCHITECT

EDSA
1512 E BROWARD STE 110
FORT LAUDERDALE, FL 33301
PHONE: (954) 556-8016
CONTACT: PAUL KISSINGER

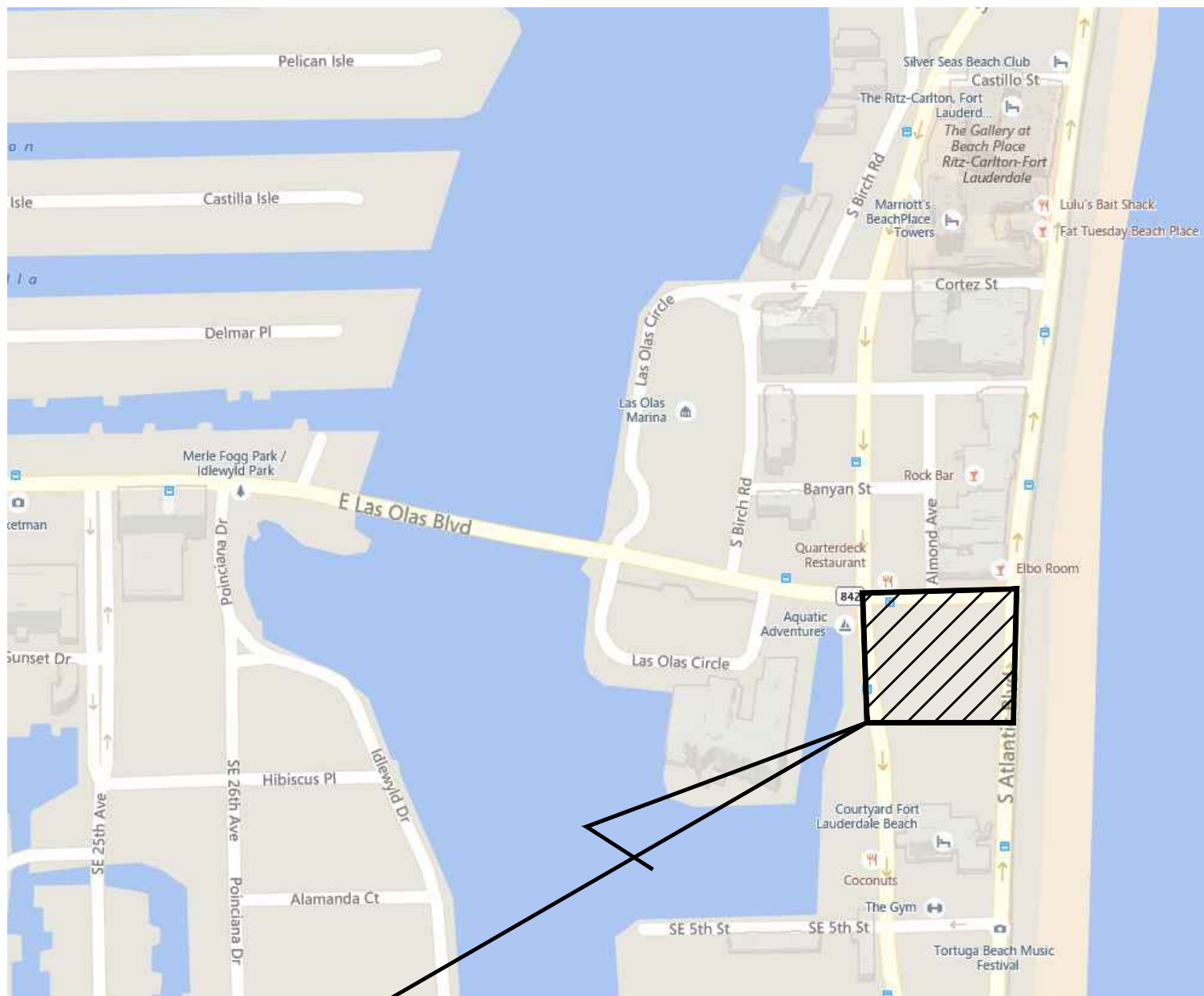
SURVEYOR

AVIROM & ASSOCIATES, INC
675 WEST INDIANTOWN ROAD
SUITE 200
JUPITER, FL 33458
PHONE: (561) 392-2594
CONTACT: MIKE AVIROM

GENERAL CONTRACTOR

SKANSKA USA BUILDING, INC
330 S.E. 2NG STREET
SUITE 207
FORT LAUDERDALE, FL 33312
PHONE: (954) 920-5167
CONTACT: VINCENT COLLINS,
PROJECT MANAGER

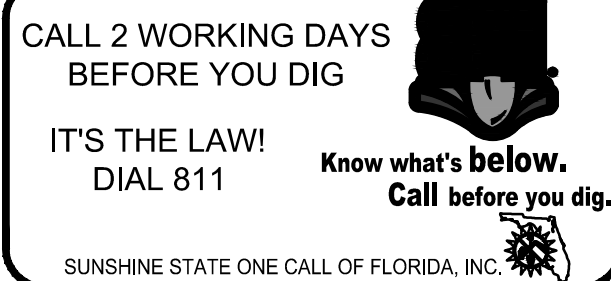
LAS OLAS BLVD CORRIDOR IMPROVEMENT CONSTRUCTION PLANS FOR CITY OF FORT LAUDERDALE JANUARY 2018



PROJECT LOCATION

VICINITY MAP
NOT TO SCALE
SECTION: 12 TOWNSHIP: 50S RANGE: 42E
CITY OF FORT LAUDERDALE, FLORIDA

Sheet List Table	
Sheet Number	Sheet Title
C1-0.00	COVER SHEET
C1-0.01	GENERAL NOTES
C1-0.02	GENERAL NOTES
C2-1.01	DEMOLITION PLAN
C2-1.04	DEMOLITION PLAN
C3-1.01	EROSION CONTROL PLAN
C3-1.04	EROSION CONTROL PLAN
C3-4.01	EROSION CONTROL DETAILS
C4-1.01	SIGNING AND PAVEMENT MARKING PLANS
C4-1.04	SIGNING AND PAVEMENT MARKING PLANS
C4-4.01	CONSTRUCTION DETAILS
C5-1.00	OVERALL GRADING AND DRAINAGE PLAN
C5-1.01	GRADING AND DRAINAGE PLAN
C5-1.04	GRADING AND DRAINAGE PLAN
C5-2.00	OVERALL PAVING PLAN
C5-2.01	PAVING PLAN
C5-2.04	PAVING PLAN
C5-4.01	PAVING, GRADING, AND DRAINAGE DETAILS
C5-4.02	PAVING, GRADING, AND DRAINAGE DETAILS
C5-4.03	PAVING, GRADING, AND DRINAGE DETAILS
C5-4.04	PROPOSED CROSS SECTIONS
C5-4.05	PROPOSED CROSS SECTIONS
C6-1.00	OVERALL UTILITY PLAN
C6-1.01	UTILITY PLAN
C6-1.04	UTILITY PLAN
C6-3.01	UTILITY BLOW UP
C6-3.02	SEWER PROFILES
C6-4.01	UTILITY DETAILS
C6-4.02	UTILITY DETAILS
C6-4.03	UTILITY DETAILS
C6-4.04	UTILITY DETAILS



100% DOCUMENTS - FOR CONSTRUCTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

COVER SHEET

SHEET NO.
C1-0.00

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISONS		DESCRIPTION		PERMIT COMMENTS	
NO.	DATE	BY	CHK'D	NO.	DATE
1	01/12/18	KHA	KHA		

SEAL:				
JASON A. WEBBER, P.E.				
73962				
KHA PROJ #: 040814003				
DATE: 06/29/2017		SCALE:		FIELD BOOK:
DRAWN BY: JJ		AS SHOWN		
DESIGNED BY: JJ		CHECKED BY: JAW		

KHA PROJ #: 040814003

JASON A. WEBBER, P.E.
73962

SEAL:

EDSA, Inc.
1512 E. Broward Blvd, Suite 110
Fort Lauderdale, FL 33301
954.524.3330

Kimley»Horn
1615 S CONGRESS AVE, SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-330-2345
WWW.KIMLEY-HORN.COM CA 00000998

GENERAL CONSTRUCTION NOTES

- THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION), AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 2 WORKING DAYS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR MUST CALL THE UTILITY COMPANIES BEFORE COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND THE ENGINEER.
- ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND ENGINEER DIRECTLY FROM THE TESTING AGENCY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING ALL QUANTITIES, TAKE-OFF MEASUREMENTS, MATERIALS, ETC. DURING THE BID PROCESS. WHEN DISCREPANCIES OCCUR, THE PHYSICAL PLAN TAKES PRECEDENCE. THE ENGINEER, LANDSCAPE ARCHITECT, COUNTY, CITY OR PROJECT MANAGERS ARE NOT TO BE HELD RESPONSIBLE FOR DISCREPANCIES FROM THE SPECIFICATIONS OR PLANS.
- THE CONTRACTOR SHALL LIMIT CONSTRUCTION OPERATIONS TO WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGES OUTSIDE THE LIMITS OF CONSTRUCTION.
- CONTRACTOR IS ADVISED THAT THE U.S. ENVIRONMENTAL PROTECTION AGENCY REQUIRES THAT ALL OPERATORS FILE A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES GENERAL PERMIT PRIOR TO BEGINNING WORK. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN THE SAME. A COPY SHALL BE SENT TO THE ENGINEER OF RECORD, ARCHITECT OF RECORD AND THE OWNER.
- FLORIDA LAW (F.S. 553.851) PROTECTION OF UNDERGROUND PIPELINES MANDATES THAT "NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF PROPOSED EXCAVATION." THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 2 WORKING DAYS AND A MAXIMUM OF 5 WORKING DAYS PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE LOCAL ELECTRICAL PROVIDER ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL PLANS RELATED TO SITE WORK INCLUDING (BUT NOT LIMITED TO) LANDSCAPE, IRRIGATION, SITE LIGHTING, BUILDING FOUNDATION, PLUMBING, FIRE SPRINKLER, AND OTHER APPLICABLE PLANS FOR CONFLICTING INFORMATION AND ALERT OWNER'S REPRESENTATIVE OF ANY CONFLICT FOR RESOLUTION.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL IRRIGATION, STREET LIGHTING, AND ELECTRICAL CONDUIT THAT WILL BE IN CONFLICT WITH ANY PROPOSED CONSTRUCTION AND SHALL RESOLVE CONFLICT ACCORDINGLY. COST OF CONFLICT RESOLUTION SHALL BE INCLUDED IN THE BID.
- ANY DEBRIS RESULTING FROM STRIPPING AND DEMOLITION OPERATIONS SHALL BE REMOVED FROM THE SITE AT FREQUENT INTERVALS TO PREVENT THIS MATERIAL FROM ACCUMULATING ON SITE.
- UPON REMOVAL OF TREES, SHRUBS OR ANY STUMP GRINDING, NO ROOT GREATER THAN THREE INCHES IN DIAMETER SHALL REMAIN WITHIN FIVE FEET OF AN UNDERGROUND STRUCTURE OR UTILITY LINE OR UNDER PAVED FOOTINGS OR PAVED AREAS.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.

PAVING, GRADING AND DRAINAGE NOTES

- ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL COUNTY OR STATE SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS, WHICHEVER IS MOST RESTRICTIVE.
- ALL UNPAVED AREAS DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED, UNLESS OTHERWISE NOTED.
- TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED WITH ST. AUGUSTINE GRASS UNLESS INDICATED OTHERWISE ON THE ENGINEERING OR LANDSCAPE PLANS.
- ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
- WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
- WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
- IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE ENGINEER PRIOR TO ANY EXCAVATION.
- CONTRACTOR TO STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. ALL TOPSOIL WILL BE STOCKPILED AND AMENDED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS.
- FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED, AND MAINTAINED UNTIL A GOOD STAND OF GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) : 1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.

MAINTENANCE

- ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
 - INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION. INLET PROTECTION DEVICES SHALL BE CLEANED OUT AT REGULAR INTERVALS OR AS THEY BECOME FULL OF DEBRIS.
 - ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED.
 - SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
 - THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
 - ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

EROSION CONTROL NOTES

- THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THIS EROSION AND SEDIMENTATION CONTROL PLAN, THE STANDARD DETAILS, AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS PROVIDED BY THE CONTRACTOR.
- ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
- EROSION AND SEDIMENTATION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- CONTRACTOR SHALL DEVOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
- ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLotation BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
- STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED.
- DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED. THESE AREAS SHALL BE STABILIZED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED.
- IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION AND SEDIMENTATION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES AS NECESSARY AS CONSTRUCTION PROGRESSES (SILT FENCES, ETC.) TO PREVENT EROSION.
- ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
- EROSION AND SEDIMENTATION CONTROL PLANS PROVIDED HEREIN ARE A GUIDELINE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE FINAL STORM WATER POLLUTION PREVENTION PLAN. THE PLAN SHALL BE SUBMITTED TO THE OWNER AND ENGINEER WHICH DEMONSTRATES THE MECHANISMS AND PRACTICES THAT WILL BE EMPLOYED TO PROTECT THE CONSTRUCTION SITE AND SURROUNDING AREA DURING CONSTRUCTION. THE PLAN SHALL BE CONSISTENT WITH FEDERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES PERMIT REQUIREMENTS PERTAINING TO POLLUTION PREVENTION PLANS. THE PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO, THE LOCATIONS OF SILT BARRIERS, TURBIDITY SCREENS OR TEMPORARY SHEETING, EMERGENCY RESPONSE PRACTICES, AND OTHER METHODS TO PREVENT POLLUTION, REFUELING OR STORAGE OF VEHICLES OR EQUIPMENT THAT UTILIZE PETROLEUM BASED PRODUCTS SHALL BE PROHIBITED ANYWHERE WITHIN 50 FEET OF A WATER'S EDGE. THE PLAN SHALL BE SUBMITTED TO THE OWNER AFTER NOTICE OF AWARD AND PRIOR TO NOTICE TO PROCEED. AFTER REVIEW BY OWNER THE PLAN SHALL BE FILED WITH ALL APPLICABLE REGULATORY AGENCIES BY THE CONTRACTOR. REFER TO FURTHER NOTES AND DETAILS WITHIN THESE DOCUMENTS.
- SILT FENCE IS REQUIRED AS SHOWN ON THE PLANS AND ANYWHERE ADDITIONAL AS REQUIRED BY CONSTRUCTION. SILT FENCE IS NOT APPLICABLE IN PAVEMENT AREAS. LIMITS OF CONSTRUCTION SHOWN ARE DIAGRAMATIC. CONTRACTOR TO PROVIDE PLAN FOR SHOP DRAWING REVIEW.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

WATER AND SEWER UTILITY NOTES

- ALL CONSTRUCTION SHALL MEET OR EXCEED THE LOCAL WATER AND SEWER REQUIREMENTS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS UNLESS OTHERWISE NOTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE SPECIFICATIONS AND DETAILS FROM THE LOCAL AGENCY.
- THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES AND GRAVITY SEWER LINES AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

- EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
- ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATINGS OR LINING OF ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
- ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- UNDERGROUND LINES SHALL BE AS-BUILT BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR BEFORE BACK FILLING.
- CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.
- ALL PIPES AND CONNECTIONS ARE TO BE RESTRAINED IN ACCORDANCE WITH THE DETAILS OR JURISDICTIONAL AGENCY REQUIREMENTS, WHICHEVER IS MOST STRINGENT.
- ALL WATER DISTRIBUTION SYSTEM MATERIALS (INCLUDING SERVICES) AND INSTALLATION SHALL CONFORM TO THE SPECIFICATIONS OF THE LOCAL WATER PROVIDER AS PROVIDED IN THEIR STANDARD SPECIFICATIONS MANUAL AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN SPECIFICATION MANUALS PRIOR TO BIDDING THE PROJECT.
- ALL POTABLE WATER PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH F.A.C. 62-555.320(21)(b)3, USING BLUE AS THE PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL. PIPE STRIPED DURING THE MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING AND AFTER INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE. FOR PIPE WITH AN INTERNAL DIAMETER OR 24" OR GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.
- ALL WATER MAINS ARE DESIGNED FOR A MINIMUM WORKING PRESSURE OF 150 PSI. HAVE COMPRESSION TYPE BELL JOINTS AND BE EITHER ANSIAWWA C-151/A21.51-02 DUCTILE IRON PIPE (D.I.P.), CLASS 50 FOR 6" DIAMETER PIPE AND LARGER AND CLASS 51 IF PIPE DIAMETER IS SMALLER THAN 6" OR ANSIAWWA C-900-97, PVC PIPE WITH A MAXIMUM SDR OF 18. ALL D.I.P. WATER MAINS SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSIAWWA STANDARDS. ALL D.I.P. FORCE MAINS SHALL BE COATED OUTSIDE WITH A BITUMINOUS COATING APPROXIMATELY 1/8" OR MIL THICK IN ACCORDANCE WITH ANSI Z15.1-8. CEMENT MORTAR LININGS ARE NOT APPROPRIATE FOR THIS APPLICATION. ALL D.I.P. FORCE MAINS AND GRAVITY SEWER MAINS SHALL BE COATED INSIDE WITH POLYBOND VIRGIN POLYETHYLENE COMPLYING WITH A S.T.M. DESIGNATION D 1248 AND HAVE A MINIMUM "N" VALUE OF 0.012. SEE PROJECT SPECIFICATIONS MANUAL FOR MORE DETAILS. OR PROTECTOR 401 CEREMIC EPOXY. ALL D.I.P. PIPE SHALL BE LAID WITH A MINIMUM OF 30" CLEAR COVER. ALL PVC PIPE SHALL BE LAID WITH A MINIMUM OF 36" CLEAR COVER.
- NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT WILL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER. A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER); A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER.
- NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE.
- THE WATER SYSTEM SHALL BE CLEANED OF DEBRIS, FLUSHED AND TESTED FOR A PERIOD OF NOT LESS THAN 2 HOURS AT A MINIMUM STARTING PRESSURE OF 130 PSI WITH AN ALLOWABLE LEAKAGE NOT TO EXCEED THE ALLOWABLE GAL/HR IN ACCORDANCE WITH THE ANSIAWWA C-600-05 STANDARD SECTION 4.2.2.

(EQUATION Q = $\frac{L \cdot D \cdot \sqrt{P}}{148,000}$)
Q = ALLOWABLE LEAKAGE, GALLONS/HOUR
L = LENGTH OF PIPE TESTED, FEET
D = NOMINAL DIAMETER, INCHES
P = AVERAGE TEST PRESSURE, LB/IN GAUGE
- AFTER THE PRESSURE TEST, THE SYSTEM SHALL BE DISINFECTED. DISINFECTION SHALL BE IN ACCORDANCE W/ANSIAWWA C651-05 STD. BACTERIOLOGICAL TESTS SHALL BE TAKEN TWO (2) CONSECUTIVE DAYS, AT LEAST 24 HOURS APART AND SHALL BE AT LEAST ONE SAMPLE PER 1,200 FEET OF MAIN IN THE SYSTEM. THE SAMPLE SHALL HAVE A HETEROTROPHIC PLATE COUNT (HPC) LESS THAN 500 CFU/ML AND SHALL BE FREE OF COLIFORM BACTERIA.
- FOR 2 HOURS AT LINE PRESSURE AFTER THE 150 PSI TEST & DISINFECTED. DISINFECTION SHALL BE IN ACCORDANCE W/ANSIAWWA C651-05 STD.
- AT THE TIME OF BACTERIOLOGICAL SAMPLING, CHLORINE RESIDUAL DETERMINATION SHALL BE MADE TO INSURE THAT CHLORINE CONCENTRATION IN THE MAIN IS NO HIGHER THAN THAT GENERALLY IN THE SYSTEM (3.0 MG/L FREE OR 4.0 MG/L COMBINED MAXIMUM), OR LESS THAN 0.2 MG/L FREE OR 0.6 MG/L COMBINED. THE RESULT SHALL BE REPORTED ALONG WITH THE BACTERIOLOGICAL TEST RESULTS. ALL TESTING SHALL BE COORDINATED AND PAID FOR BY THE CONTRACTOR.
- NO BENEFICIAL USE SHALL BE MADE OF THE PROPOSED WATER MAINS TO BE INSTALLED PER THIS PERMIT WITHOUT WRITTEN APPROVAL FROM THE BROWARD COUNTY HEALTH DEPARTMENT.

UTILITY CONTACT INFORMATION

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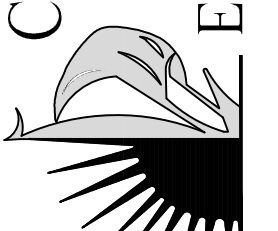
SEAL:

JASON A. WEBBER, P.E.
73962

KHA PROJ #: 040814003

DRAWN BY: JJ	DATE: 06/29/2017	DESIGNED BY: JJ	SCALE: AS SHOWN	CHECKED BY: JAW	FIELD BOOK:
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CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301



NO.	DATE	BY	CHK'D	DESCRIPTION	REVISIONS
1	01/12/18	KHA		PERMIT COMMENTS C	

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL
GENERAL NOTES

SHEET NO.
C1-0.01

FDOT GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION WITHIN THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN (F.D.O.T.) RIGHT-OF-WAY SHALL CONFORM TO THE LATEST EDITION (F.D.O.T.'S DESIGN STANDARDS AND LATEST EDITION) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. MAINTENANCE OF TRAFFIC M.O.T. FOR THIS PROJECT WILL COMPLY WITH THE F.D.O.T. STANDARD INDEX (600 SERIES) AND THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). SPECIAL ATTENTION WILL BE GIVEN TO FDOT DESIGN STANDARD INDEX 611, 612, 613, AND 660.
3. THE OPERATIONS ENGINEER OR HIS DESIGNEE RESERVES THE RIGHT TO DIRECT THE REMOVAL/RELOCATION/MODIFICATION OF ANY TRAFFIC DEVICES(S) AT THE PERMITTEE'S SOLE EXPENSE.
4. DRAINAGE INLET TOP, INCLUDING THE GRATE, WILL BE REMOVED AND DELIVERED TO WPB OPERATIONS CENTER BY THE PERMITTEE/CONTRACTOR AT THEIR EXPENSE OR AS DIRECTED BY THE OPERATIONS ENGINEER.
5. ALL THERMOPLASTIC TRAFFIC STRIPES, MARKINGS AND SIGNAGE WILL BE INSTALLED PER THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS.
6. FOR ANY UNDERGROUND WORK, THE CONTRACTOR MUST CONTACT SIGNAL TRAFFIC CONTROL MAINTAINING AGENCY PRIOR TO CONSTRUCTION.
7. IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN FINAL ACCEPTANCE OF PERMITTED WORK (COMPLETED) AND THE RESTORATION OF THE RIGHT-OF-WAY FROM THE F.D.O.T. PRIOR TO USAGE.
8. PERMITTEE WILL PROVIDE THE NECESSARY DENSITIES IN ACCORDANCE WITH SECTION 125-6 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION (LATEST EDITION) PRIOR TO FINAL ACCEPTANCE BY THE F.D.O.T..
9. PERMITTEE WILL RESTORE THE RIGHT OF WAY AS A MINIMUM, TO ITS ORIGINAL CONDITION OR BETTER IN ACCORDANCE WITH F.D.O.T.'S LATEST STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION OR AS DIRECTED BY THE RESIDENT OPERATIONS ENGINEER.
10. DURING THE REMOVAL/INSTALLATION OF ANY CURB AND GUTTER SECTION, THE PERMITTEE WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE ABUTTING ASPHALT. THE DAMAGED ASPHALT REPAIR WILL BE IN ACCORDANCE WITH THE CURRENT SPECIFICATIONS AND/OR AS DIRECTED BY THE RESIDENT OPERATIONS ENGINEER.
11. PERMITTEE SHALL PROVIDE THE PRODUCER'S CERTIFICATION (DELIVERY TICKET) FOR THE NS CONCRETE-2500 PSI (USED FOR SIDEWALK, CURB & GUTTER, DITCH PAVEMENT AND TRAFFIC SEPARATOR) PRIOR TO FINAL ACCEPTANCE BY THE DEPARTMENT. THE DELIVERY TICKET SHALL CERTIFY THE CONCRETE WAS BATCHED, DELIVERED AND PLACED IN ACCORDANCE WITH SECTION 347 OF THE F.D.O.T.'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION).
12. REMOVAL/INSTALLATION OF SIDEWALK WILL BE IN CONFORMANCE WITH FDOT STANDARD INDEX 310.
13. SODDED AREAS WILL BE IN ACCORDANCE WITH STANDARD INDEX 105 AND SECTIONS 162, 981, 982, 983, 987 OF THE F.D.O.T.'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. ALL DISTURBED AREAS WILL BE SODDED WITHIN ONE (1) WEEK OF INSTALLATION OF SAID PERMITTED WORK.
14. PERMITTEE SHALL MILL (MIN DEPTH OF 1 5/8") AND RESURFACE THE AFFECTED LANES **AS DIRECTED**. THE REPLACEMENT PAVEMENT TYPE SHALL BE IN ACCORDANCE WITH THE F.D.O.T.'S FRICTION COURSE POLICY. LATEST EDITION. EXCEPT WHERE PERMISSION IS GIVEN BY THE LOCAL RESIDENT OPERATIONS ENGINEER.
15. OWNERSHIP OF ALL SUITABLE EXCAVATED MATERIALS WITHIN THE FDOT RW, AS DETERMINED BY THE F.D.O.T., SHALL REMAIN IN THE DEPARTMENT UNTIL A FINAL ACCEPTANCE OF THE PERMITTED PROJECT IS FULFILLED. EXCAVATED MATERIALS SHALL BE HAULED BY THE CONTRACTOR, AT THEIR COST & EXPENSE FROM THE SITE TO THE PALM BEACH OPERATIONS CENTER, 7900 W FOREST HILL BLVD OR STOCKPILED IN THOSE AREAS AS DIRECTED BY THE DOT, INCLUDING ASPHALT MILLINGS.
16. RESTRICTED HOURS OF OPERATION WILL BE FROM 9:00AM TO 3:30 PM, (MONDAY-FRIDAY), UNLESS OTHERWISE APPROVED BY THE OPERATIONS ENGINEER, OR DESIGNEE.
17. PERMITTEE WILL COORDINATE ALL WORK WITH THE BROWARD COUNTY PERMITS DEPARTMENT USING PHONE # **(954)-337-6666** COORDINATION WILL INCLUDE A PRE-CONSTRUCTION MEETING.
18. PERMITTEE: PLEASE NOTE:
19. PERMITTEE'S CONTRACTORS THAT ARE PERFORMING PERMITTED WORK ACTIVITIES SHALL PROVIDE THE F.D.O.T. (PERMIT OFFICE) PROOF OF A PROPER STATE CONTRACTOR'S LICENSE AND CERTIFICATE OF LIABILITY INSURANCE PRIOR TO ANY COMMENCEMENT OF PERMITTED WORK.
20. PERMITTEE SHALL OBTAIN A UTILITY PERMIT FROM THE DEPARTMENT PRIOR TO COMMENCING UTILITY WORK IN THE FOOT RW.
21. ALL PUBLIC SIDEWALK CURB RAMPS WILL MEET THE ROADWAY & TRAFFIC DESIGN STANDARDS (CURRENT EDITION) INDEX NUMBER 304 CURBRAMP INSPECTIONS (S) REQUIRED PRIOR TO INSTALLATION OF CONCRETE.
22. PERMIT IS VALID FOR ONE YEAR FROM DATE OF ISSUE.
23. PERMITTEE WILL PROVIDE THE F.D.O.T. WITH CERTIFIED "AS-BUILT" PLANS PRIOR TO FINAL ACCEPTANCE OF THE PERMITTED WORK.

BROWARD COUNTY

THE FOLLOWING ITEMS ARE NOT REVIEWED OR ACCEPTED BY BROWARD COUNTY:

1. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECTS DESIGN OR OPERATION. THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.
2. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW OR APPROVE, OR INSPECT AND ACCEPT THE FOLLOWING ITEMS FOR MAINTENANCE: PAVEMENT MARKINGS ON OR ADJACENT TO PAVEMENT BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVEMENT BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, RAISED CROSSWALKS, RAISED INTERSECTIONS, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED SABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BELT LANES, GREEN BELT LANES WITH TURN ARROWS, TURN ARROWS, TURN ARROWS, TURN ARROWS, TURN ARROWS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.
3. THE CITY ENGINEER IS RESPONSIBLE FOR THE REVIEW AND APPROVAL OF THE DESIGN AND OPERATION OF THE PROJECT, AND FOR THE INSPECTION AND ACCEPTANCE OF THE FOLLOWING ITEMS THAT WILL BE MAINTAINED BY THE CITY: PAVEMENT MARKINGS ON OR ADJACENT TO PAVEMENT BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVEMENT BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, RAISED CROSSWALKS, RAISED INTERSECTIONS, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED SABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BELT LANES, GREEN BELT LANES WITH TURN ARROWS, TURN ARROWS, TURN ARROWS, TURN ARROWS, TURN ARROWS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.

PRECONSTRUCTION RESPONSIBILITIES

1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE ENGINEER, THE LANDSCAPE ARCHITECT AND ITSELF.
2. THE CONTRACTOR SHALL CONTACT "SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811)" AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING ANY EXCAVATION.
3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
4. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.
5. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

CONTRACTOR SHALL COORDINATE ALL WORK PERTAINING TO THIS PROJECT WITH CITY OF FORT LAUDERDALE PROJECT #11681 "SR A1A STREETSCAPE IMPROVEMENTS" (AND FDOT 3R PROJECT FPID #430601-1-52-01 TITLE: SRA1A FROM BRIDGE OVER MERCEDES RIVER TO SUNRISE BRIDGE OVER THE INTRACOASTAL)

6. CONTRACTOR SHALL COORDINATE WITH THE CITY OF FORT LAUDERDALE UTILITIES DEPARTMENT FOR INFORMATION REGARDING THE WATER MAIN AND SEWER FORCE MAIN DIRECTIONAL BORES AND INTERCONNECT

CONSTRUCTION SAFETY

1. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.

TRENCH SAFETY ACT

1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA TRENCH SAFETY ACT.
2. WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5') ARE REQUIRED, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID:
 - A. A REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
 - B. WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
 - C. A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
3. WHEN A BID IS NOT SUBMITTED, THE CONTRACTOR SHALL SUBMIT THE INFORMATION LISTED IN ITEM "2" TO THE ENGINEER PRIOR TO STARTING WORK.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO REMAIN. ALL ITEMS NOTED TO BE REMOVED SHALL BE PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
3. THE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANS FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE REMOVED OR RELOCATED SHALL BE PRESERVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION. THE LANDSCAPE PLAN FOR TREE PROTECTION REQUIREMENTS. THE CONTRACTOR SHALL MARK IN THE FIELD EXISTING TREES TO REMAIN, SHOULD ANY TREE TO BE REMAIN BE DAMAGED BY THE CONTRACTOR, IT WILL REQUIRE REPLACEMENT IN KIND, OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

INTERRUPTION OF EXISTING UTILITIES

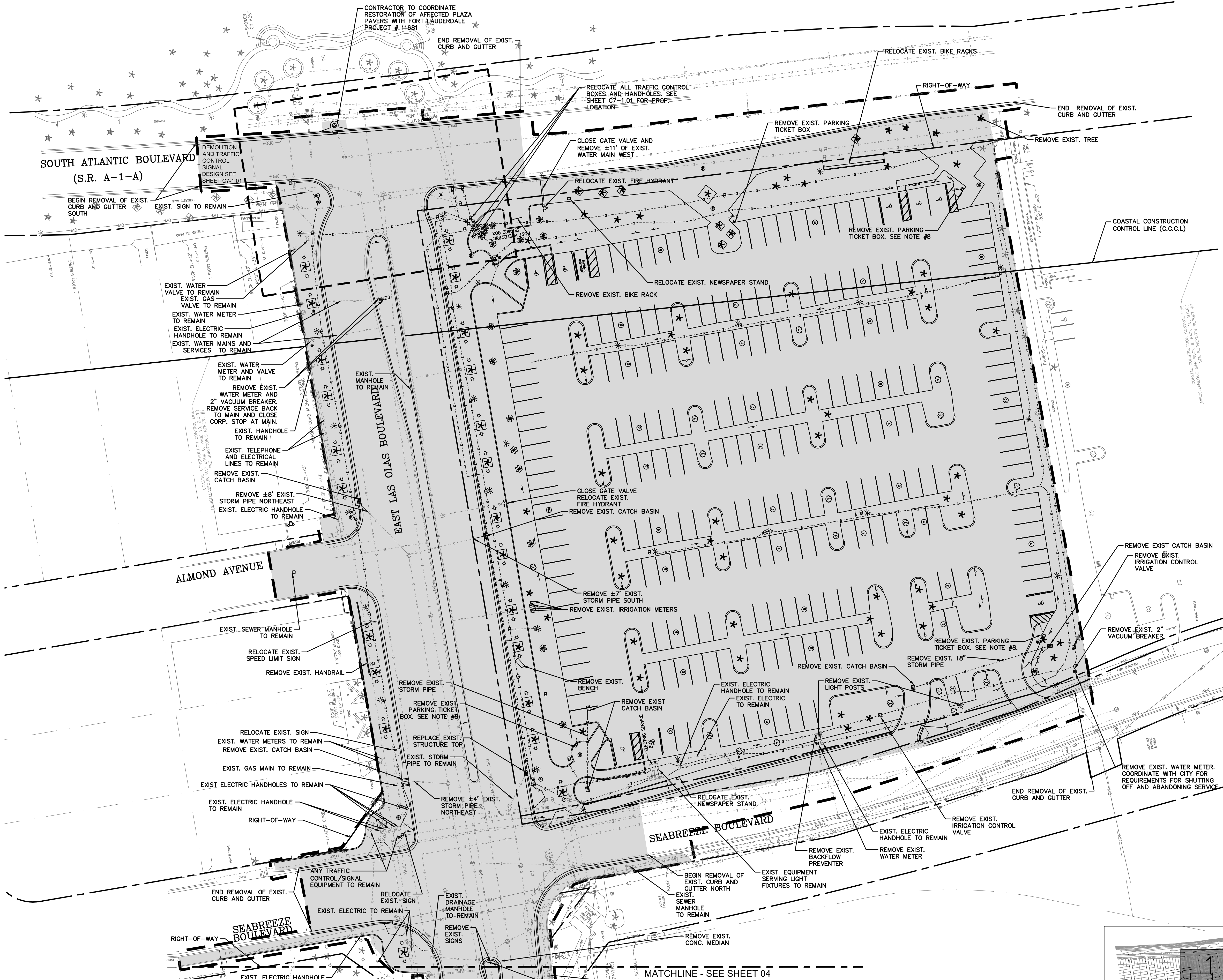
1. ANY CONSTRUCTION WORK THAT REQUIRES INTERRUPTION OF SERVICE TO ANY CUSTOMER SHALL BE DONE SO WITH A MINIMUM OF SEVENTY-TWO (72) HOUR NOTICE TO, AND WRITTEN APPROVAL BY THE APPLICABLE UTILITY COMPANY. THE CONTRACTOR SHALL ARRANGE A MEETING WITH THE LOCAL JURISDICTIONAL AGENCIES AND OTHER GOVERNING AGENCIES, AND THE UTILITY COMPANY PRIOR TO SCHEDULING THE SHUTDOWN TO ASSESS THE SCOPE OF WORK, ALL SYSTEM SHUT DOWNS SHALL BE SCHEDULED BY THE CONTRACTOR AT SUCH TIME THAT SYSTEM DEMAND IS LOW. THIS GENERALLY REQUIRES NIGHT TIME WORK BY THE CONTRACTOR AND REQUIRES FULL TIME INSPECTION BY A REPRESENTATIVE OF THE UTILITY COMPANY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS THAT THE UTILITY SHALL BE BORNE BY THE CONTRACTOR. EACH CUSTOMER AFFECTED BY THE SHUT DOWN SHALL BE PROVIDED, MINIMUM, FORTY-EIGHT (48) HOURS WRITTEN NOTIFICATION BY THE CONTRACTOR.

SURVEY DATA

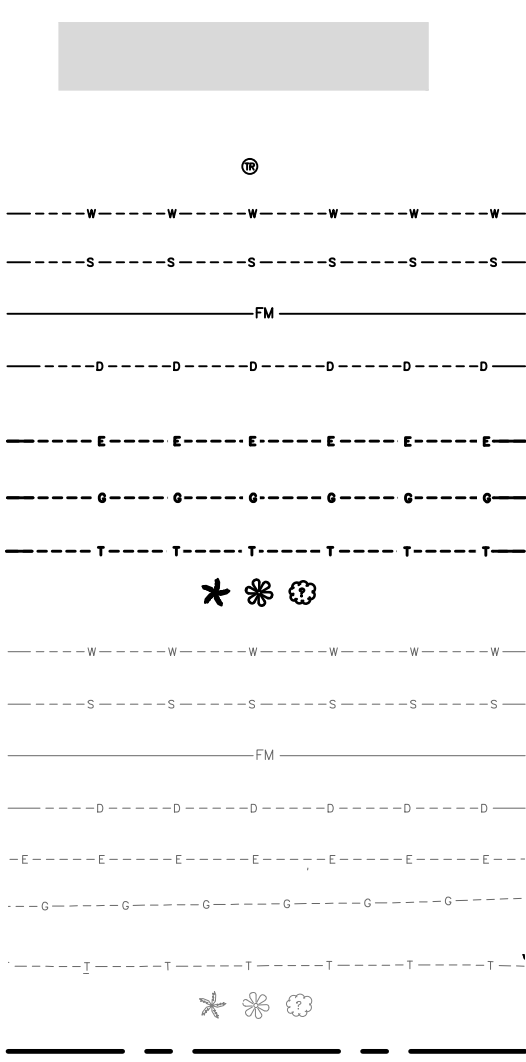
1. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
2. THE CONTRACTOR SHALL PROTECT ALL PERMANENT REFERENCE MONUMENTS AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO SURVEY MARKERS DURING CONSTRUCTION, ANY SURVEY MARKERS DAMAGED DURING CONSTRUCTION WILL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
3. BENCHMARK LOCATION AND ELEVATION ARE AS REPRESENTED BY SURVEYOR AT THE TIME OF SURVEY, CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT TIME OF CONSTRUCTION.

MINIMUM REQUIRED AS-BUILT INFORMATION

1. UPON THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD COMPLETE SETS OF AS-BUILT CONSTRUCTION DRAWINGS AS REQUIRED FOR SUBMITTAL AND APPROVAL. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR.
2. ALL AS-BUILT INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR, AND LEGIBLE TO SATISFY THE ENGINEER HAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
3. UTILITY CROSSING SEPARATION INFORMATION PROVIDED ON THE PLANS VERIFYING:
 - A. SIZE AND MATERIAL OF CROSSING PIPES
 - B. TOP ELEVATION OF BOTTOM PIPE
 - C. BOTTOM ELEVATION OF TOP PIPE
 - D. CLEARANCE BETWEEN PIPES
 - E. FINISH SURFACE ELEVATION OVER UTILITY CROSSING
3. STORM DRAINAGE:
 - A. TOP ELEVATION OF EACH MANHOLE FRAME AND COVER / GRATE AS WELL ALL OTHER STRUCTURES (HEADWALLS, CONTROL STRUCTURES, ETC.).
 - B. INVERT ELEVATION OF EACH LINE ENTERING AND LEAVING EACH STRUCTURE, INCLUDING UNDERDRAIN PIPES.
 - C. INVERTS OF ALL MITERED END SECTIONS
 - D. ACTUAL GRADE OF PIPE BETWEEN THE STRUCTURES
 - E. INVERT ELEVATION AND TWO HORIZONTAL TIES FROM PERMANENT VISIBLE OBJECTS TO ALL STORM STUB-OUTS.
 - F. CONTRACTOR SHALL PROVIDE ACCURATE AS-BUILT DIMENSIONS AND ELEVATIONS OF THE STORM WATER MANAGEMENT AREAS IMMEDIATELY AFTER FINAL GRADING AND PRIOR TO SEEDING OR SODDING OF THE SLOPES. AT A MINIMUM, THE CONTRACTOR SHALL PROVIDE CROSS SECTIONS ON ALL SIDES OF THE WATER MANAGEMENT AREAS AT 100-FOOT INTERVALS. THE CROSS SECTIONS SHALL BE PROVIDED FROM TOP OF BANK TO THE SLOPE BREAK BELOW CONTROL ELEVATION THE ENGINEER'S APPROVAL IS REQUIRED PRIOR TO GRASSING OF THE BANK. IF ANY MODIFICATIONS ARE SPECIFIED, ADDITIONAL AS-BUILTS MAY BE REQUIRED.
 - G. ALL SLEEVES, FITTINGS, TEES, BENDS, VALVES, ETC. SHALL BE LOCATED BY STATION/OFFSET OR BY STATE PLANS COORDINATES AND ELEVATION ON TOP OF PIPE FOR ALL CONSTRUCTED SLEEVING. AS-BUILTS FOR ALL SLEEVING DEPICTING TOP OF POPE AT 100-FOOT INTERVALS MUST BE PROVIDED.
4. PRESSURE SYSTEMS (WATER, FIRE, FORCE MAIN):
 - A. ACTUAL LENGTHS BETWEEN BRANCHES AND VALVES ALONG THE MAIN RUN.
 - B. TOP OF PIPE AND FINISHED GRADE ELEVATIONS AT 100' INTERVALS.
 - C. LOCATE WITH MEASUREMENTS FROM PERMANENT VISIBLE OBJECTS ALL FITTINGS/ACCESSORIES NOT VISIBLE FROM THE SURFACE (MINIMUM TWO POINT TIES).
 - D. ALL OTHER REQUIRED PRESSURE PIPE INFORMATION IN ACCORDANCE WITH THE AS-BUILT REQUIREMENTS OF AUTHORITY HAVING JURISDICTION.
5. LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES.
6. REVISIONS TO ROUTING OF PIPING AND CONDUTIS.
7. REVISIONS TO ELECTRICAL CIRCUITY.
8. ACTUAL EQUIPMENT LOCATIONS.
9. CHANGES MADE BY CHANGE ORDER OR CONSTRUCTION CHANGE DIRECTIVE.
10. CHANGES MADE FOLLOWING ENGINEER'S WRITTEN ORDERS.
11. IDENTIFICATION OF ADDENDUM ITEMS ISSUED DURING BIDDING PERIOD.
12. DETAILS NOT ON THE ORIGINAL CONTRACT DRAWINGS.
13. FIELD RECORDS FOR VARIABLE AND CONCEALED CONDITIONS.
14. CONTROL STRUCTURES SHALL BE AS-BUILT, INCLUDING THE BLEEDER AND/OR WEIR INVERT TOP ELEVATIONS AND SIZES, RIM AND INVERTS OF STRUCTURE. AT THE TIME OF THE CONTROL STRUCTURE INSTALLATION, A PERMANENT BENCHMARK SHOULD BE INSTALLED ON TOP OF THE STRUCTURE WITH THE ELEVATION CLEARLY DEFINED.
15. RECORD DRAWING SHALL BE AS-BUILT DATA FOR EVERY ELEVATION SHOWN ON PLANS
16. IF A NEW BENCHMARK LOCATION IS ESTABLISHED, CONTRACTOR SHALL PROVIDE A BENCH LOOP CLOSURE TO THE CLOSEST EXISTING BENCHMARKS IN BOTH DIRECTIONS. ALL BENCHMARK DATA SHALL BE SUBMITTED BY A REGISTERED LAND SURVEYOR.
17. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL AS-BUILT DATA FOR UTILITIES AND SLEEVING IS COLLECTED PRIOR TO PAVEMENT SECTION CONSTRUCTION. PRELIMINARY UTILITY AS-BUILTS MUST BE PROVIDED TO THE ENGINEER FOR REVIEW PRIOR TO PAVEMENT SECTION CONSTRUCTION.



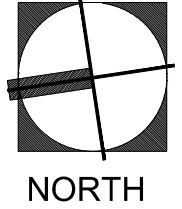
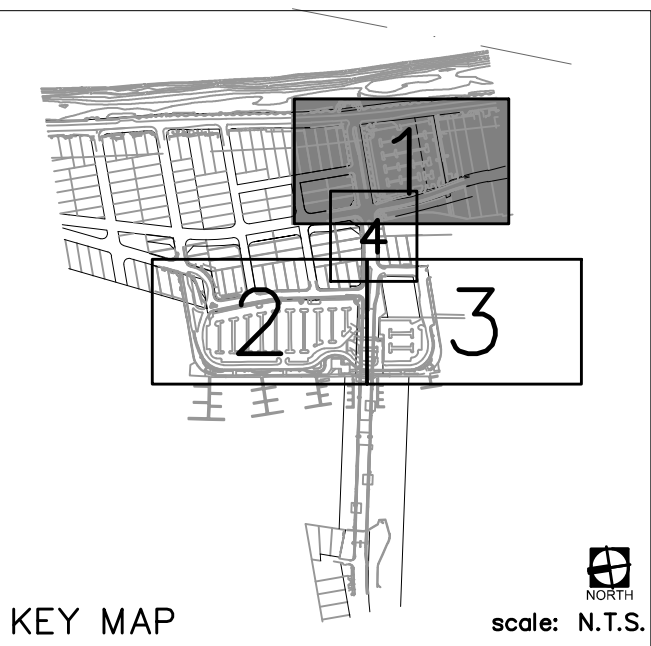
LEGEND:



- REMOVE EXISTING CURB, CONCRETE, PAVERS, BUILDINGS, SIGNS, LIGHT POLES, LANDSCAPE LIGHTING, AND TREES UNLESS SPECIFICALLY CALLED OUT TO REMAIN. SEE SHEETS C5-2.00 - C5-2.04 PAVING PLAN FOR DETAILS ON PAVEMENT SECTIONS.
- EXISTING TRASH CAN TO BE REMOVED PER NOTE 8
- EXISTING WATER MAIN TO BE REMOVED
- EXISTING GRAVITY SEWER MAIN TO BE REMOVED
- EXISTING SEWER FORCE MAIN TO BE REMOVED
- EXISTING STORM PIPE TO BE REMOVED
- EXISTING ELECTRIC (REFER TO ELECTRICAL PLANS FOR REMOVAL DETAILS)
- EXISTING GAS TO BE REMOVED
- EXISTING TELEPHONE TO BE REMOVED
- EXISTING TREES TO BE REMOVED
- EXISTING WATER MAIN TO REMAIN
- EXISTING GRAVITY SEWER MAIN TO REMAIN
- EXISTING SEWER FORCE MAIN TO REMAIN
- EXISTING STORM PIPE TO REMAIN
- EXISTING ELECTRIC TO REMAIN
- EXISTING GAS TO REMAIN
- EXISTING TELEPHONE TO REMAIN
- EXISTING TREES TO REMAIN
- RIGHT-OF-WAY LINE

NOTES:

- ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
- REFER TO LANDSCAPE PLANS (SHEETS L1-0.01-L1-1.04) FOR TREE REMOVAL, RELOCATION, AND PROTECTION INFORMATION AND DETAILS.
- ALL LIGHT POLES WITHIN LIMITS OF DEMOLITION SHALL BE REMOVED UNLESS NOTED OTHERWISE.
- ANY ITEMS NOT SPECIFICALLY NOTED TO BE REMOVED SHALL REMAIN.
- ANY ITEMS NOTED TO BE RELOCATED SHALL BE REMOVED AND STORED IN A SECURE LOCATION. ANY LOST OR DAMAGED ITEMS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ANY REMOVAL OF THE ABANDONED 12" SEWER FORCE MAIN MUST BE COORDINATED THROUGH RICK JOHNSON AT THE CITY OF FORT LAUDERDALE (954.828.7809) TO ENSURE THAT THE 12" FORCE MAIN WAS VALVED-OFF, AND THAT SUCH VALVES LOCATED TO THE SOUTH HAVE REMAINED IN A CLOSED POSITION TO AVOID ANY SEWER SPILLAGE.
- ANY VALVES, BOXES, MANHOLES, HANDHOLES, METERS, AND OTHER SUCH ITEMS TO REMAIN SHALL BE ADJUSTED TO MATCH THE PROPOSED ELEVATION AND SLOPE.
- ALL TRASH CANS, SIGNS, BIKE RACKS AND OTHER FURNISHINGS REMOVED SHALL BE PROVIDED TO THE CITY FOR POTENTIAL REUSE.
- ALL ELECTRICAL CONDUIT, WIRING, AND HANDHOLES ASSOCIATED WITH REMOVED LIGHT POLES OR OTHER ELECTRICAL INFRASTRUCTURE SHALL BE REMOVED. ELECTRIC REMOVAL IS SHOWN BASED ON THE BEST INFORMATION AVAILABLE AND MAY NOT INDICATE EXACT CONNECTIVITY. CONTRACTOR SHALL VERIFY PRIOR TO COMMENCING REMOVAL.
- CONTRACTOR SHALL COORDINATE ALL GAS MAIN/SERVICE REMOVAL WITH DAVID RIVERA FROM TECO PEOPLE'S GAS (954.453.0794).
- THE PROPOSED WATER MAIN RELOCATIONS MUST BE CONSTRUCTED AND CERTIFIED TO THE CITY OF FORT LAUDERDALE AND BROWARD COUNTY HEALTH DEPARTMENT PRIOR TO THE BEGINNING THE REMOVAL OF THE EXISTING UTILITY SYSTEM.
- CONTRACTOR SHALL PROVIDE TEMPORARY PUMPING (IF NEEDED) FOR THE GRAVITY SEWER RELOCATION. THE PROPOSED RELOCATION MUST BE CONSTRUCTED AND CERTIFIED TO THE CITY OF FORT LAUDERDALE AND BROWARD COUNTY PRIOR TO BEGINNING THE REMOVAL OF THE EXISTING SEWER SYSTEM.
- CONTRACTOR SHALL PROVIDE CLEAN CUTS AT EDGES OF DEMOLITION OF HARDSCAPE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING INTEGRITY OF THE SEAWALL AND CAP LOCATED WITHIN THE PROJECT BOUNDARIES. IF DAMAGED BY CONTRACTOR, CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS AT NO ADDITION OF TIME OR COST TO THE CITY.



SCALE: 1"=30'-0"



100% DOCUMENTS - FOR CONSTRUCTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

SHEET NO.
C2-1.01

DEMOLITION PLAN

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	01/12/18	KHA	PERMIT COMMENTS C

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

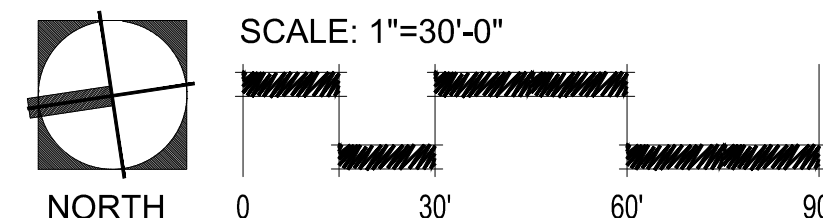
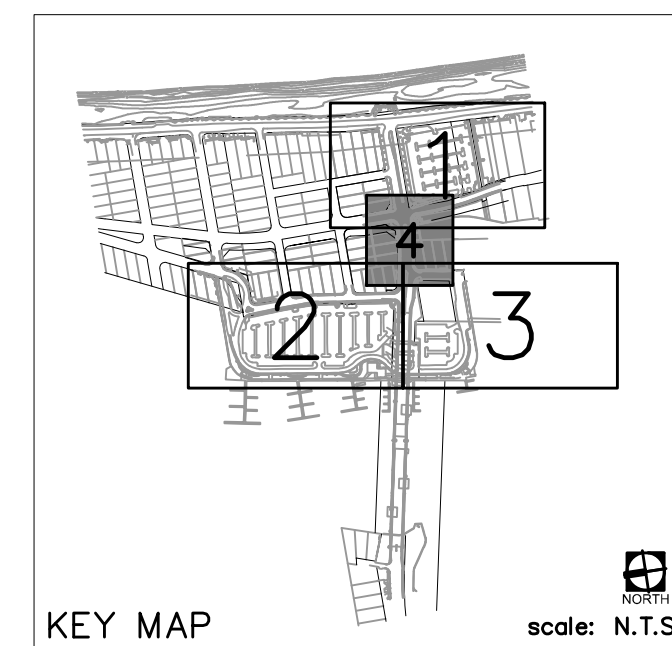
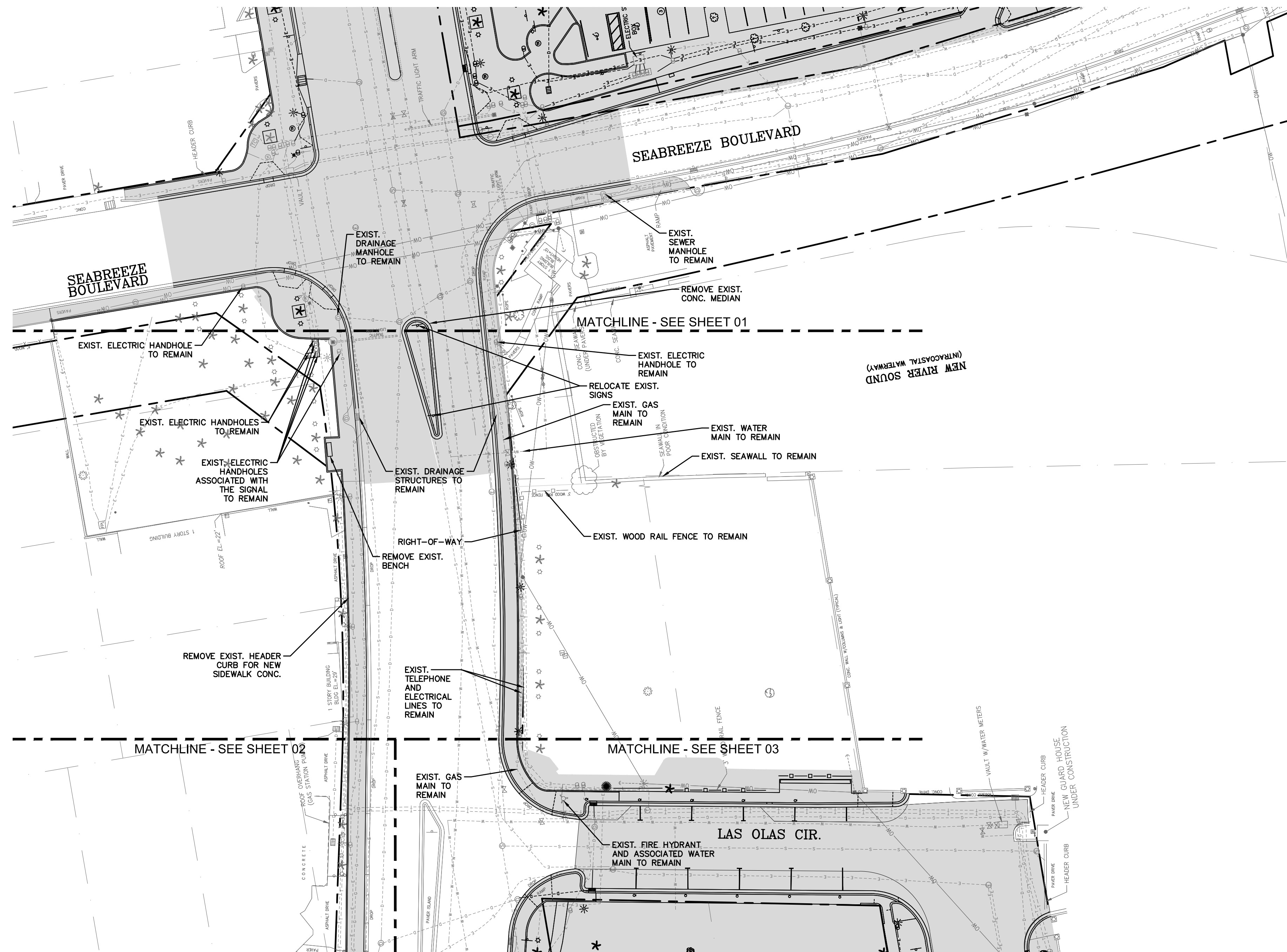
DRAWN BY: JJ
CHECKED BY: JAW
DATE: 06/28/2017
SCALE: AS SHOWN
FIELD BOOK:

JASON A. WEBBER, P.E.
73962

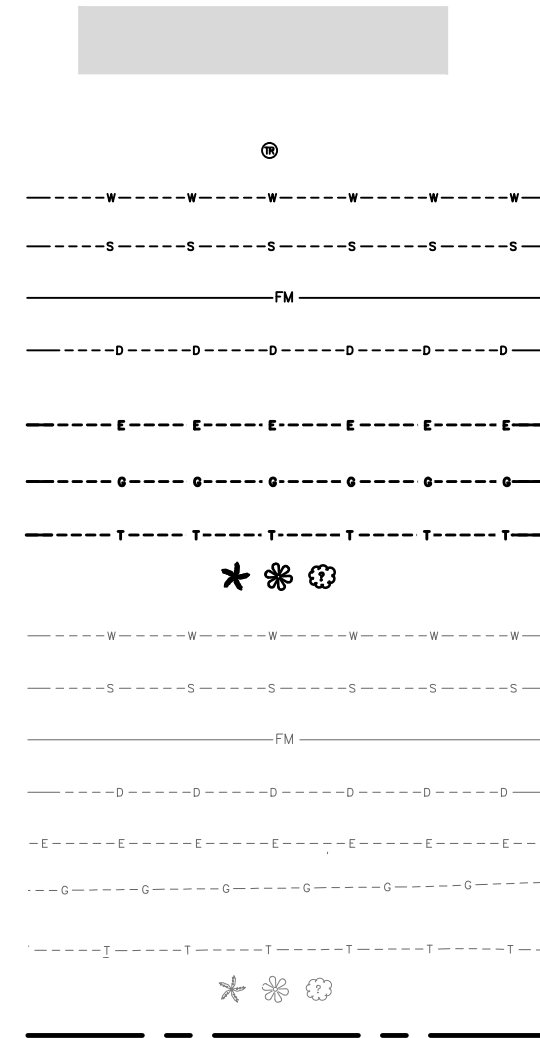
KHA PROJ # 040814003

Kimley-Horn
1615 S. CONGRESS AVE., SUITE 201
DELAWARE BEACH, FL 33445
PHONE: 904-330-2245 FAX: 904-330-2245
WWW.KIMLEY-HORN.COM CA 00000595
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EDSA, Inc.
1512 E. Broward Blvd. Suite 110
Fort Lauderdale, FL 33301
954.524.3330



LEGEND:



REMOVE EXISTING CURB, CONCRETE, PAVERS,
BUILDINGS, SIGNS, LIGHT POLES, LANDSCAPE LIGHTING,
AND TREES UNLESS SPECIFICALLY CALLED OUT TO
REMAIN. SEE SHEETS C5-2.00 - C5-2.04 FOR
PAVING PLAN FOR DETAILS ON PAVEMENT SECTIONS.

EXISTING TRASH CAN TO BE REMOVED PER NOTE 8

EXISTING WATER MAIN TO BE REMOVED

EXISTING GRAVITY SEWER MAIN TO BE REMOVED

EXISTING SEWER FORCE MAIN TO BE REMOVED

EXISTING STORM PIPE TO BE REMOVED

EXISTING ELECTRIC (REFER TO ELECTRICAL PLANS FOR
REMOVAL DETAILS)

EXISTING GAS TO BE REMOVED

EXISTING TELEPHONE TO BE REMOVED

EXISTING TREES TO BE REMOVED

EXISTING WATER MAIN TO REMAIN

EXISTING GRAVITY SEWER MAIN TO REMAIN

EXISTING SEWER FORCE MAIN TO REMAIN

EXISTING STORM PIPE TO REMAIN

EXISTING ELECTRIC TO REMAIN

EXISTING GAS TO REMAIN

EXISTING TELEPHONE TO RE

EXISTING TREES TO REMAIN

RIGHT-OF-WAY LINE

100% DOCUMENTS - FOR CONSTRUCTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

DEMOLITION PLAN

SHEET NO.
C2-1.



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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SEAL

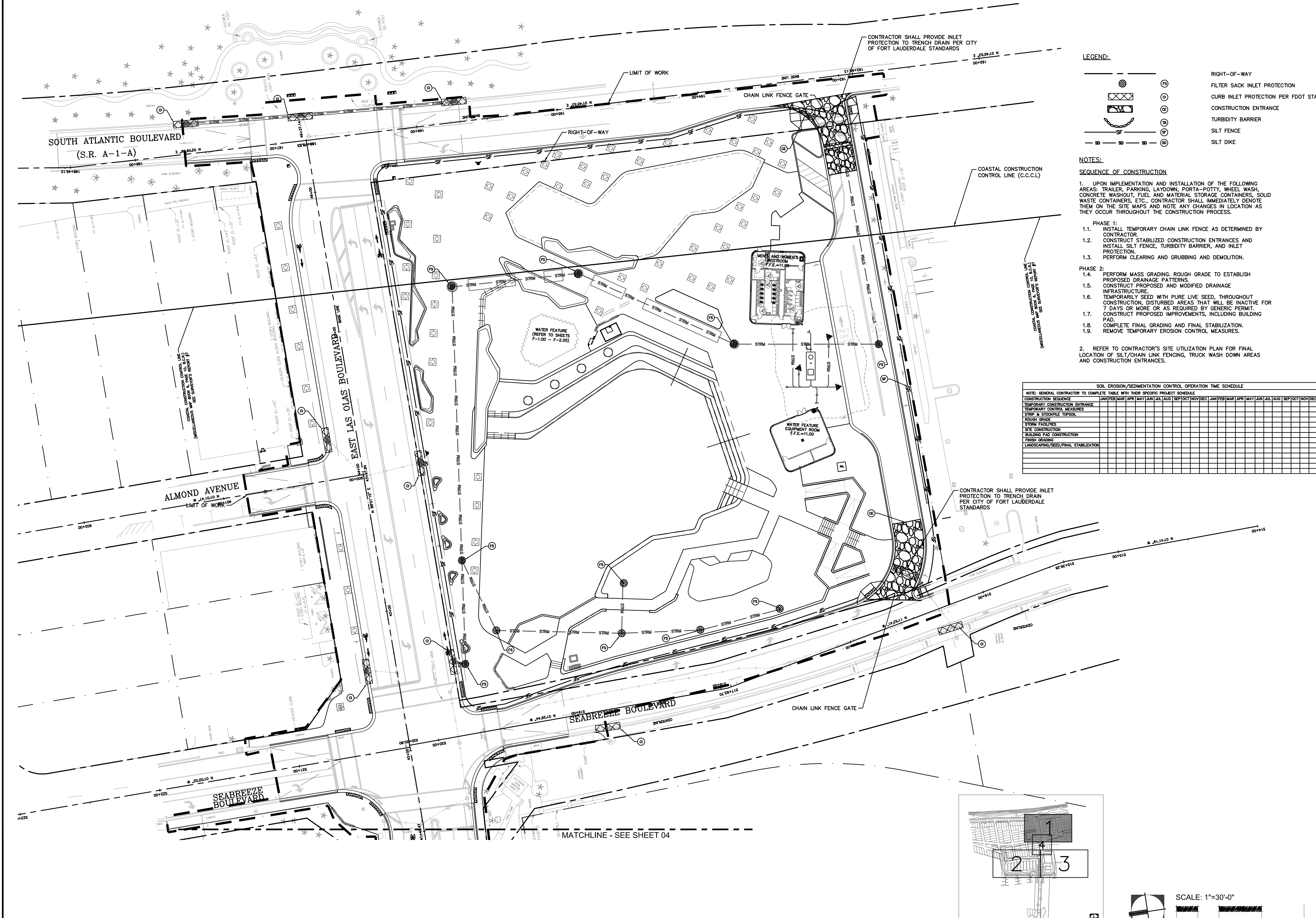
JASON A. WEBBER, P.E.
73962

KHA PROJ #: 040814003

DRAWN BY: JJ	DATE: 06/29/2017
DESIGNED BY: JJ	SCALE: AS SHOWN
CHECKED BY: JAW	
FIELD BOOK:	

EDSA EDSA, Inc.
1512 E. Broward Blvd, Suite 110
Fort Lauderdale, FL 33301
954.524.3330

Kimley»Horn
1615 S CONGRESS AVE, SUITE 201,
DELRAY BEACH, FL 33445
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WWW.KIMLEY-HORN.COM CA 0000896
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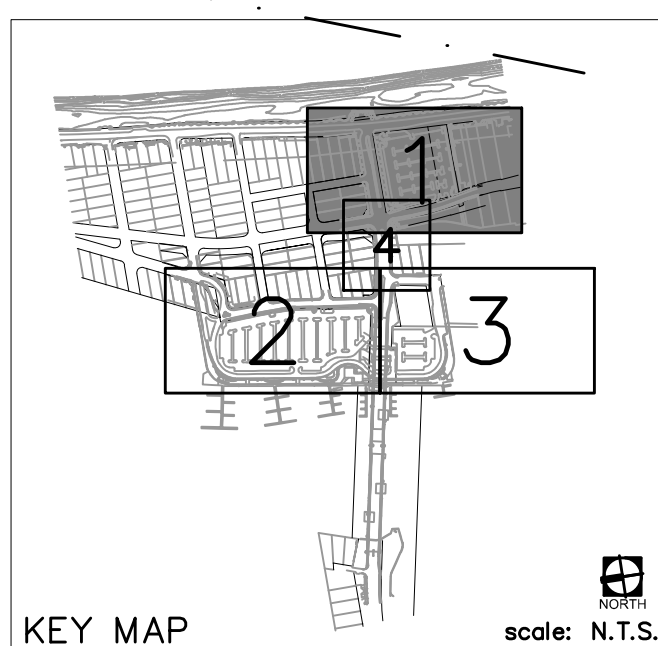


LEGEND:

	RIGHT-OF-WAY
	FILTER SACK INLET PROTECTION
	CURB INLET PROTECTION PER FDOT STANDARDS
	CONSTRUCTION ENTRANCE
	TURBIDITY BARRIER
	SILT FENCE
	SILT DIKE

- NOTES:**
- SEQUENCE OF CONSTRUCTION**
1. UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., CONTRACTOR SHALL IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
- PHASE 1:**
- 1.1. INSTALL TEMPORARY CHAIN LINK FENCE AS DETERMINED BY CONTRACTOR.
 - 1.2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AND INSTALL SILT FENCE, TURBIDITY BARRIER, AND INLET PROTECTION.
 - 1.3. PERFORM CLEARING AND GRUBBING AND DEMOLITION.
- PHASE 2:**
- 1.4. PERFORM MASS GRADING. ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
 - 1.5. CONSTRUCT PROPOSED AND MODIFIED DRAINAGE INFRASTRUCTURE.
 - 1.6. TEMPORARILY SEED WITH PURE LIVE SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE OR AS REQUIRED BY GENERIC PERMIT.
 - 1.7. CONSTRUCT PROPOSED IMPROVEMENTS, INCLUDING BUILDING PAD.
 - 1.8. COMPLETE FINAL GRADING AND FINAL STABILIZATION.
 - 1.9. REMOVE TEMPORARY EROSION CONTROL MEASURES.
2. REFER TO CONTRACTOR'S SITE UTILIZATION PLAN FOR FINAL LOCATION OF SILT/CHAIN LINK FENCING, TRUCK WASH DOWN AREAS AND CONSTRUCTION ENTRANCES.

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE												
NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE												
CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
TEMPORARY CONSTRUCTION ENTRANCE												
TEMPORARY CONTROL MEASURES												
STRIP & STOCKPILE TOPSOIL												
ROUGH GRADE												
STORM FACILITIES												
SITE CONSTRUCTION												
BUILDING PAD CONSTRUCTION												
FINISH GRADING												
LANDSCAPING/SEED/FINAL STABILIZATION												



SCALE: 1"=30'-0"

NORTH

0 30' 60' 90'

100% DOCUMENTS - FOR CONSTRUCTION

EDSA, Inc.
1512 E. Broward Blvd, Suite 110
Fort Lauderdale, FL 33301
954.524.3330

Kimley-Horn
1615 S. Congress Ave, Suite 201
Delray Beach, FL 33445
PHONE: 954.352.2445 FAX: 954.330.0245
WWW.KIMLEY-HORN.COM CA 00000695
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SEAL:

JASON A. WEBBER, P.E.
73962

KHA PROJ #: 040814003

DATE: 06/28/2017
DRAWN BY: JJ
DESIGNED BY: JJ
CHECKED BY: JAW
FIELD BOOK:

SCALE: AS SHOWN

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION
1	01/12/18	KHA	KHA	PERMIT COMMENTS C

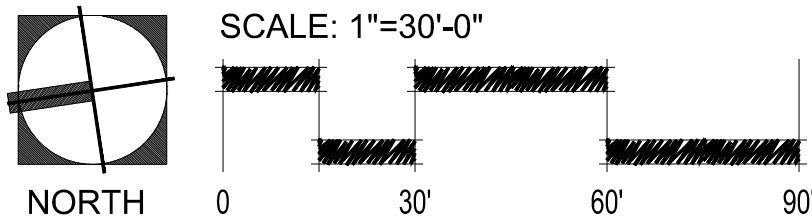
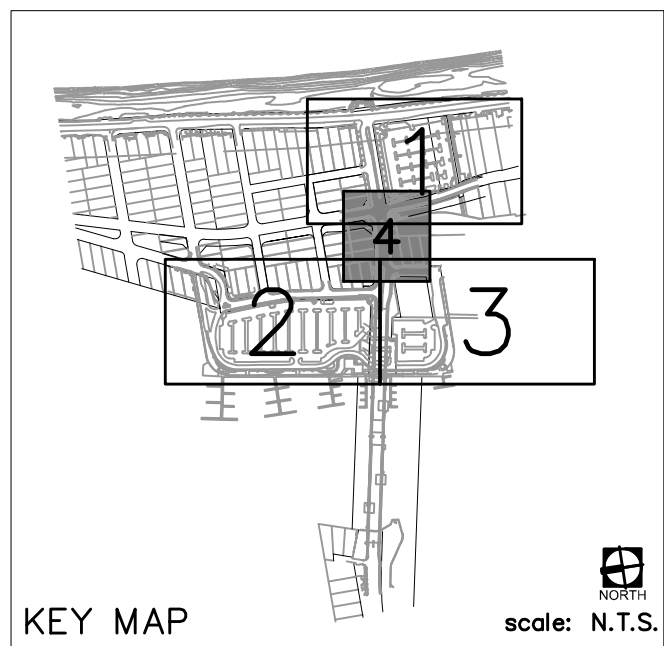
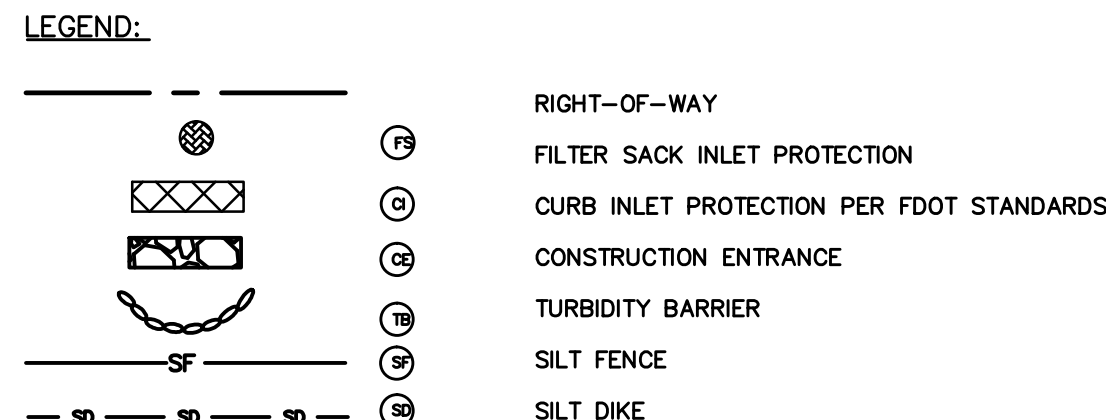
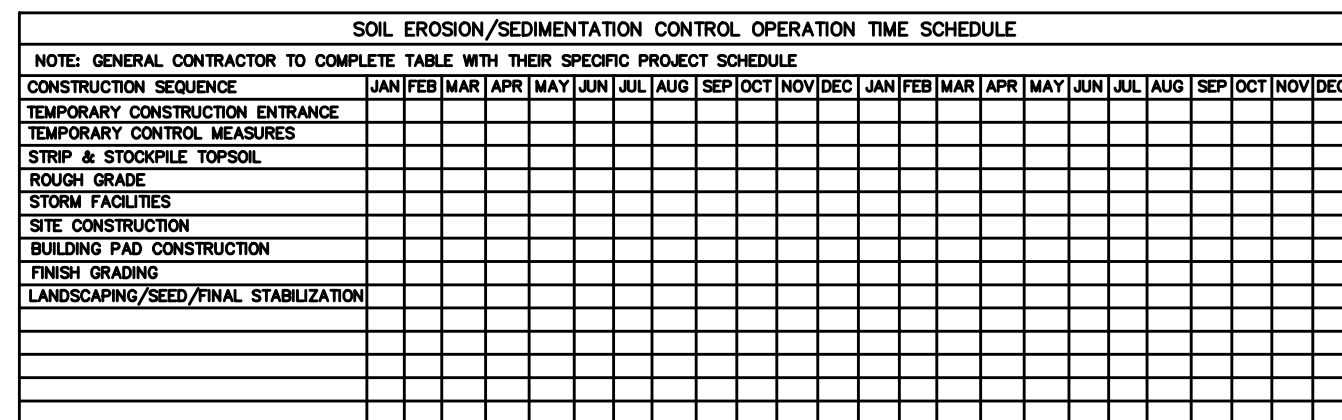
PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

EROSION CONTROL PLAN

SHEET NO.
C3-1.01

11900-MULTI-EROS

CAM #18-0242
Exhibit 1
Page 11 of 36

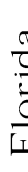


100% DOCUMENTS - FOR CONSTRUCTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

EROSION CONTROL PLAN

REVISIONS					
NO.	DATE	BY	CHK'D	DESCRIPTION	
1	01/12/18	KHA	KHA	PERMIT COMMENTS C	



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DATE: 06/29/2017	SCALE: AS SHOWN	
DRAWN BY: JJ	DESIGNED BY: JJ	CHECKED BY: JAW
FIELD BOOK:		

SEAL:

JASON A. WEBBER, P.E.
73962

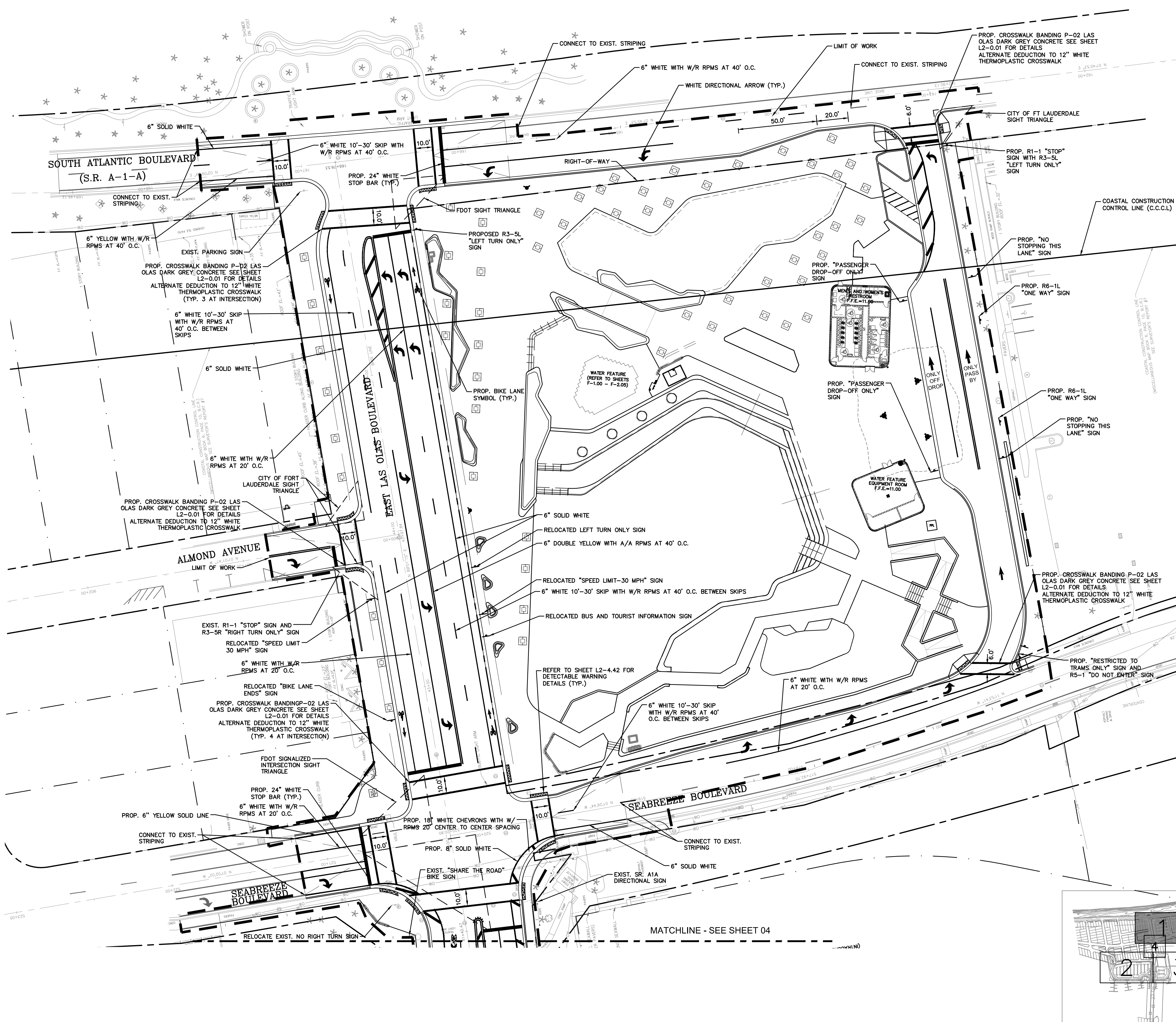
KHA PROJ #: 040814003

Kimley»Horn
1615 S CONGRESS AVE, SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-330-2245
WWW.KIMLEY-HORN.COM CA 0000696
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EDSA **EDSA, Inc.**
1512 E. Broward Blvd, Suite 110
Fort Lauderdale, FL 33301
954.524.3330



SHEET NO.
C3-4.01



NOTES:

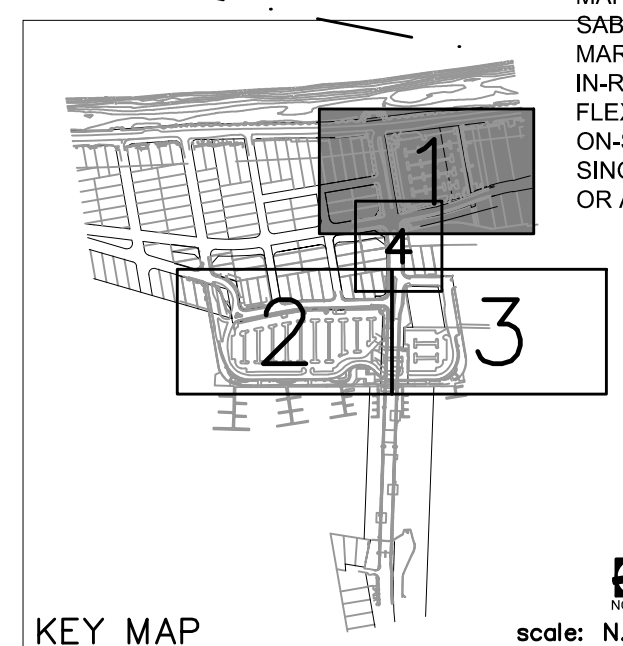
1. CLEAR DISTANCE BETWEEN STOP BAR AND CROSSWALK SHALL BE A MINIMUM OF 4 FEET.
2. ALL LONGITUDINAL PAVEMENT MARKINGS SHALL BE 6" WIDE UNLESS OTHERWISE NOTED PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS OR CITY OF FORT LAUDERDALE DESIGN STANDARDS.
3. THERMOPLASTIC STRIPPING SHALL BE USED UNLESS OTHERWISE APPROVED BY THE CITY OF FORT LAUDERDALE AND F.D.O.T.
4. REFLECTIVE PAVEMENT MARKERS (RPMs) SHALL BE INSTALLED ON ALL ROADWAY STRIPPING IN ACCORDANCE WITH FOOT STANDARDS. INSTALL BLUE/BLEU RPM IN CENTER OF NEAREST TRAVEL LANE AT PIRE HYDRANTS.
5. ALL EXISTING PAVEMENT MARKINGS SHALL BE REMOVED PER FOOT STANDARDS. ANY DAMAGE TO THE EXISTING PAVEMENT SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
6. REFER TO ARCHITECTURAL PLANS SHEET L2-1.01 FOR BIKE LANE COLOR DETAILS.
7. DETECTABLE WARNING SURFACE SHALL BE 2" DEEP AND EXTEND THE WIDTH OF THE RAMP/CROSSWALK, IN ACCORDANCE WITH FOOT INDEX 304 REFER TO SHEET L2-4.42 FOR DETAILS.
8. PRIOR TO ANY WORK REQUIRING LANE CLOSURES, MOBILE OPERATIONS OR TRAFFIC PACING OPERATIONS THE CONTRACTOR OR PERMITTEE SHALL SUBMIT A REQUEST TO THE DEPARTMENT THAT INCLUDES THE TIME, LOCATION, AND DESCRIPTION OF WORK BEING PERFORMED. EACH REQUEST WILL BE REVIEWED BY THE APPROPRIATE DEPARTMENT PERSONNEL FOR COMPLIANCE WITH CONTRACT OR PERMIT REQUIREMENTS AND COORDINATION WITH ADJACENT PROJECTS OR WORK ACTIVITIES. THE LANE CLOSURE REQUEST SHALL BE SUBMITTED TO THE DEPARTMENT A MINIMUM OF 2 WEEKS PRIOR TO THE PROPOSED CLOSURE DATE AND MUST BE APPROVED BY THE DEPARTMENT BEFORE WORK REQUIRING THE CLOSURE MAY BEGIN WITHIN THE FOOT RIGHT-OF-WAY.
9. DURING CONSTRUCTION, HIGHEST PRIORITY SHOULD BE GIVEN TO ENSURE PEDESTRIAN SAFETY. IF PERMISSION IS GRANTED TO TEMPORARILY CLOSE A SIDEWALK, IT SHOULD BE DONE WITH THE EXPRESS CONDITION THAT AN ALTERNATE ROUTE WILL BE PROVIDED, AND SHALL CONTINUOUSLY MAINTAIN PEDESTRIAN FEATURES TO MEET AMERICANS WITH DISABILITY ACT (ADA) STANDARDS.
10. IF ANY PORTABLE TRAFFIC MONITORING SITE (PTMS) OR A TELEMETRY TRAFFIC MONITORING SITE (TTMS) IS IN CONFLICT, IT IS THE RESPONSIBILITY OF THE PERMITTEE TO LOCATE AND AVOID CONFLICT. IF THESE SITES OR ANY PTMS AND OR TTMS SITE IS CALLED DURING CONSTRUCTION, THE COMPLETE RESTORATION AND REPAIRS WILL BE THE RESPONSIBILITY OF THE APPLICANT. IF A PTMS OR TTMS SITE IS ENCOUNTERED DURING CONSTRUCTION, THE PLANNING AND ENVIRONMENTAL MANAGEMENT OFFICE (PL&EM) MUST BE NOTIFIED IMMEDIATELY AT (954) 777-4601.
11. THE D.O.T. RIGHT-OF-WAY CANNOT BE UTILIZED FOR STAGING, STORAGE OR MOBILIZATION OF EQUIPMENT, SUPPLIES AND/OR VEHICLES USED TO PERFORM WORK FOR ON-SITE (NON-FOOT RIGHT-OF-WAY) CONSTRUCTION.
12. THE D.O.T. ROADWAY, SIDEWALK, ETC. MUST NOT BE DISTURBED UNTIL THE OFF-SITE IMPROVEMENTS SHOWN ON PERMIT ARE COMPLETE. TO CONSTRUCT CONSTRUCTION SHOULD BE COMPLETED AS SOON AS POSSIBLE SO AS TO MINIMIZE DISRUPTION WITHIN THE R/W.
13. A COPY OF THIS PERMIT AND PLAN WILL BE ON THE JOB SITE AT ALL TIMES DURING THE CONSTRUCTION OF THIS FACILITY.
14. THIS PERMIT IS VALID ONLY FOR WORK PROPOSED WITHIN THE D.O.T. RIGHT-OF-WAY. CONTACT MR. VIKRANT SRIVASTAVA AT 954-776-4300 TO SCHEDULE A PRE-CONSTRUCTION MEETING 48 HOURS PRIOR COMMENCEMENT OF CONSTRUCTION. CERTIFICATION ACCEPTANCE AND FINAL APPROVAL IS CONTINGENT UPON CONFORMITY OF ALL WORK DONE ACCORDING TO THIS APPROVED PERMIT.
15. PERMITTEE IS CAUTIONED THAT UTILITIES MAY BE LOCATED WITHIN THE CONSTRUCTION AREA.
16. VALIDITY OF THIS PERMIT IS CONTINGENT UPON PERMITTEE OBTAINING NECESSARY PERMITS FROM ALL OTHER AGENCIES INVOLVED.
17. BEFORE BEGINNING ANY WORK THE SIGNAL MAINTAINING AGENCY MUST BE NOTIFIED TO ESTABLISH THE LOCATION OF ANY SIGNAL LOOPS, WIRES, SYSTEM COMMUNICATIONS, ETC.
18. IN THE EVENT THAT A FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) LIGHT POLE HAS TO BE RELOCATED, THE PERMITTEE IS REQUIRED TO IDENTIFY AND COORDINATE WITH THE MAINTAINING AGENCY PRIOR TO COMMENCEMENT OF CONSTRUCTION. PRIOR TO FINAL ACCEPTANCE, FDOT AND THE MAINTAINING AGENCY OF THE LIGHT POLE WILL NEED TO SIGN OFF ON THE FINAL INSTALLATION.
19. ALL MAINTENANCE OF TRAFFIC (MOT) WILL BE IN ACCORDANCE WITH THE DEPARTMENT'S CURRENT EDITION OF THE DESIGN MANUAL (600 SERIES). THE OPERATIONS ENGINEER OR HIS DESIGNEE RESERVES THE RIGHT TO DIRECT THE REMOVAL/RELOCATION/MODIFICATION OF ANY TRAFFIC DEVICE(S) AT THE PERMITTEE'S SOLE EXPENSE.
20. CONTAIN ALL EROSION AND SEDIMENTATION ON-SITE AND PREVENT ITS ENTRY INTO THE STATE ROAD STORM SEWER SYSTEM. THE PERMITTEE SHALL IMPLEMENT BEST MANAGEMENT PRACTICES FOR EROSION AND POLLUTION CONTROL. TO PREVENT VIOLATION OF STATE WATER QUALITY STANDARDS, THE PERMITTEE SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY EROSION, SLOPING, OR WATER QUALITY PROBLEMS THAT RESULT FROM THE CONSTRUCTION OR OPERATION OF THE SURFACE WATER MANAGEMENT SYSTEM.
21. GIVE SPECIAL ATTENTION TO NOT NOTE INSTRUCTING THAT THE LOCAL MEDIA SHALL BE CONTACTED A WEEK PRIOR TO ANY LANE CLOSURES ON THE STATE ROAD SYSTEM IF IT WILL OCCUR DURING PEAK HOURS OR OVER THE SPAN OF MORE THAN ONE DAY. CONTACT BRADLEY KELLEHER AT (954) 777-4990 INFORMATION OFFICE AT 954-777-4090 FOR GUIDANCE ON WHO TO CONTACT. PROVIDE A COPY OF THE PRESS RELEASE TO:

FLORIDA DEPARTMENT OF TRANSPORTATION
PUBLIC INFORMATION OFFICE
3400 WEST COMMERCIAL BLVD.
FORT LAUDERDALE, FLORIDA 33309

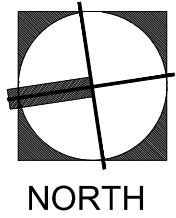
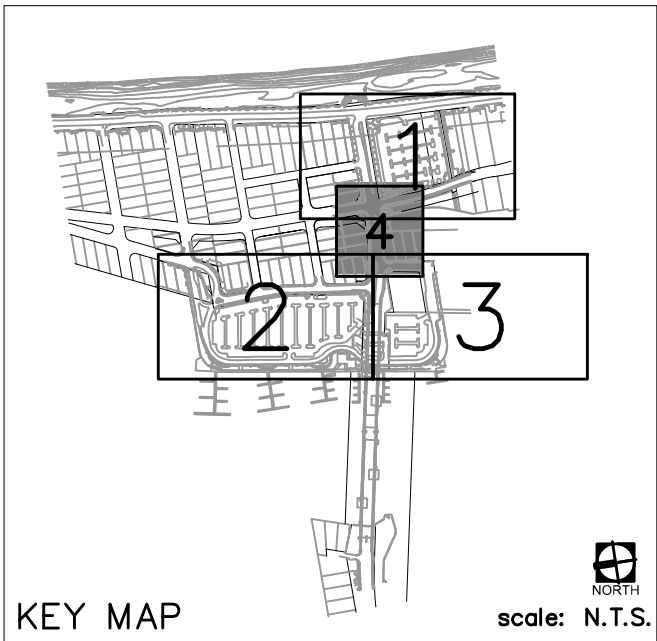
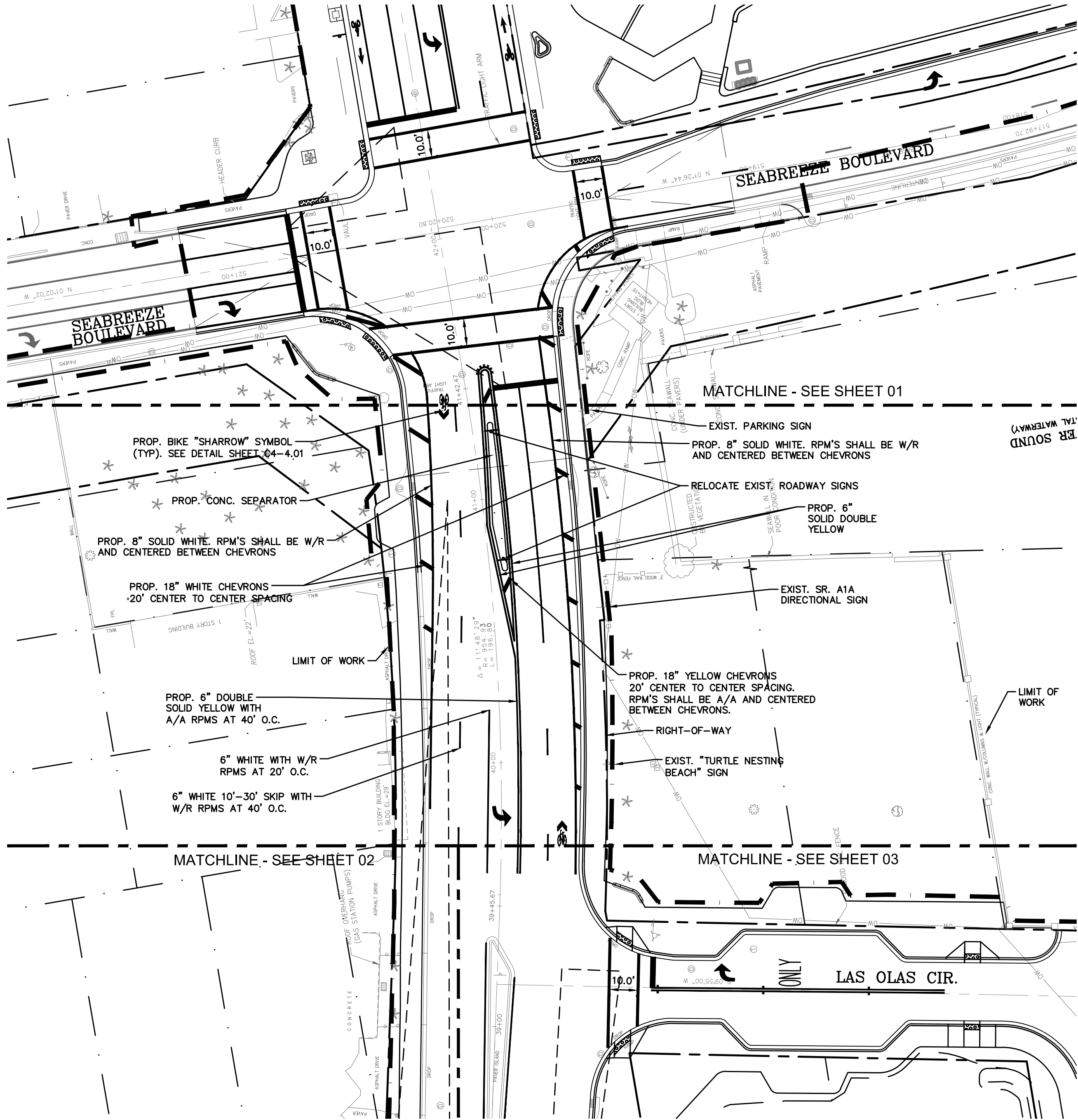
BROWARD COUNTY

THE FOLLOWING ITEMS ARE NOT REVIEWED OR ACCEPTED BY BROWARD COUNTY:

1. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECTS DESIGN OR OPERATION. THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.
2. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW AND APPROVE, OR INSPECT AND ACCEPT THE FOLLOWING ITEMS FOR MAINTENANCE: PAVEMENT MARKINGS ON OR ADJACENT TO PAVEMENT BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVEMENT BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UNWARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, UNWARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED SABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.
3. THE CITY ENGINEER IS RESPONSIBLE FOR THE REVIEW AND APPROVAL OF THE DESIGN AND OPERATION OF THE PROJECT, AND FOR THE INSPECTION AND ACCEPTANCE OF THE FOLLOWING ITEMS THAT WILL BE MAINTAINED BY THE CITY: PAVEMENT MARKINGS ON OR ADJACENT TO PAVEMENT BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVEMENT BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UNWARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UNWARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED SABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.



SCALE: 1"=30'-0"



SCALE: 1"=30'-0"



100% DOCUMENTS - FOR CONSTRUCTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL
SIGNING AND PAVEMENT MARKING
PLANS

SHEET NO.
C4-1.04

REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION
1	01/12/18	KHA	KHA	PERMIT COMMENTS C

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY:	DATE:	DESIGNED BY:	SCALE:	AS SHOWN
JJ	06/28/2017	JJ		
CHECKED BY:		JAW		
				FIELD BOOK:

JASON A. WEBBER, P.E.
73962

KHA PROJ #: 040814003

SEAL:

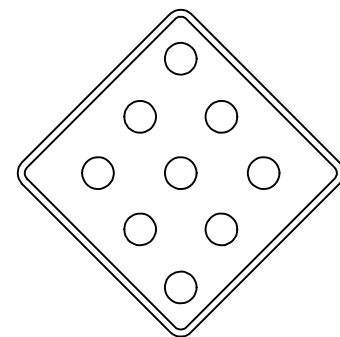
EDSA, Inc.
1512 E. Broward Blvd, Suite 110
Fort Lauderdale, FL 33301
954.524.3330

Kimley»Horn
1615 S. CONGRESS AVE, SUITE 201
DELMAR BEACH, FL 33445
PHONE: 901-330-2345 FAX: 901-330-2345
WWW.KIMLEY-HORN.COM CA 00000095
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R5-1 "DO NOT ENTER" SIGN
NOT TO SCALE

FDOT



OM1-1 SIGN PANEL
NOT TO SCALE

FDOT



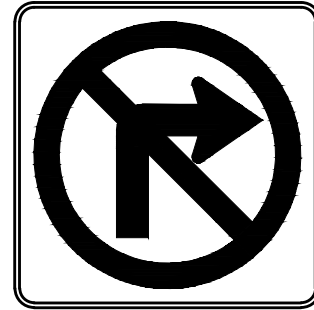
NO U-TURN SIGN R3-4
NOT TO SCALE

FDOT



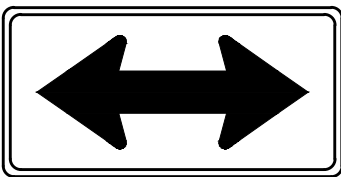
NO LEFT TURN SIGN R3-2
NOT TO SCALE

FDOT



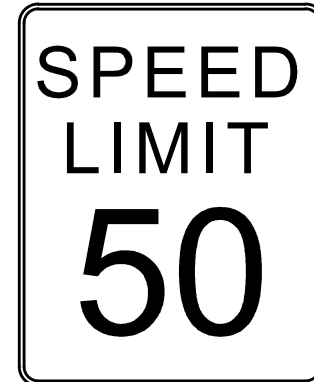
NO RIGHT TURN SIGN R3-1
NOT TO SCALE

FDOT



WARNING SIGN - PANEL W1-7
NOT TO SCALE

FDOT



SPEED LIMIT SIGN - PANEL R2-1
NOT TO SCALE

FDOT



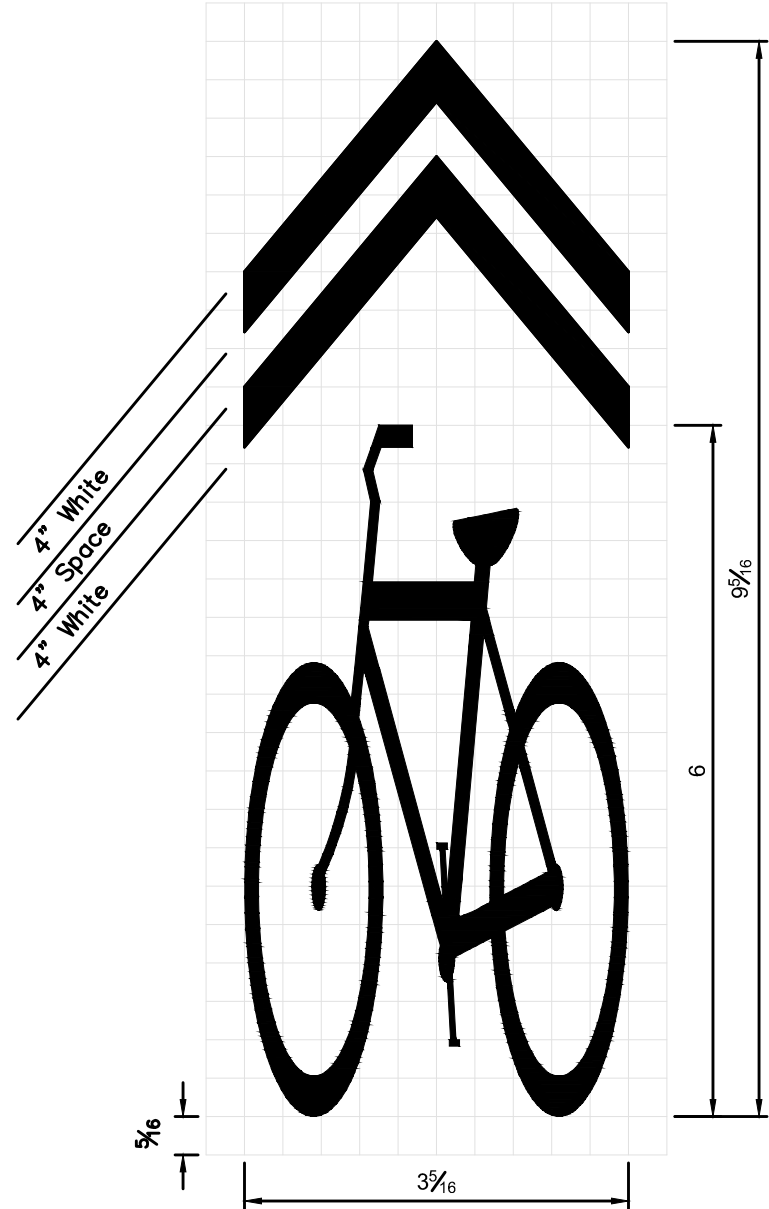
WARNING SIGN - PANEL W16-9P
NOT TO SCALE

FDOT



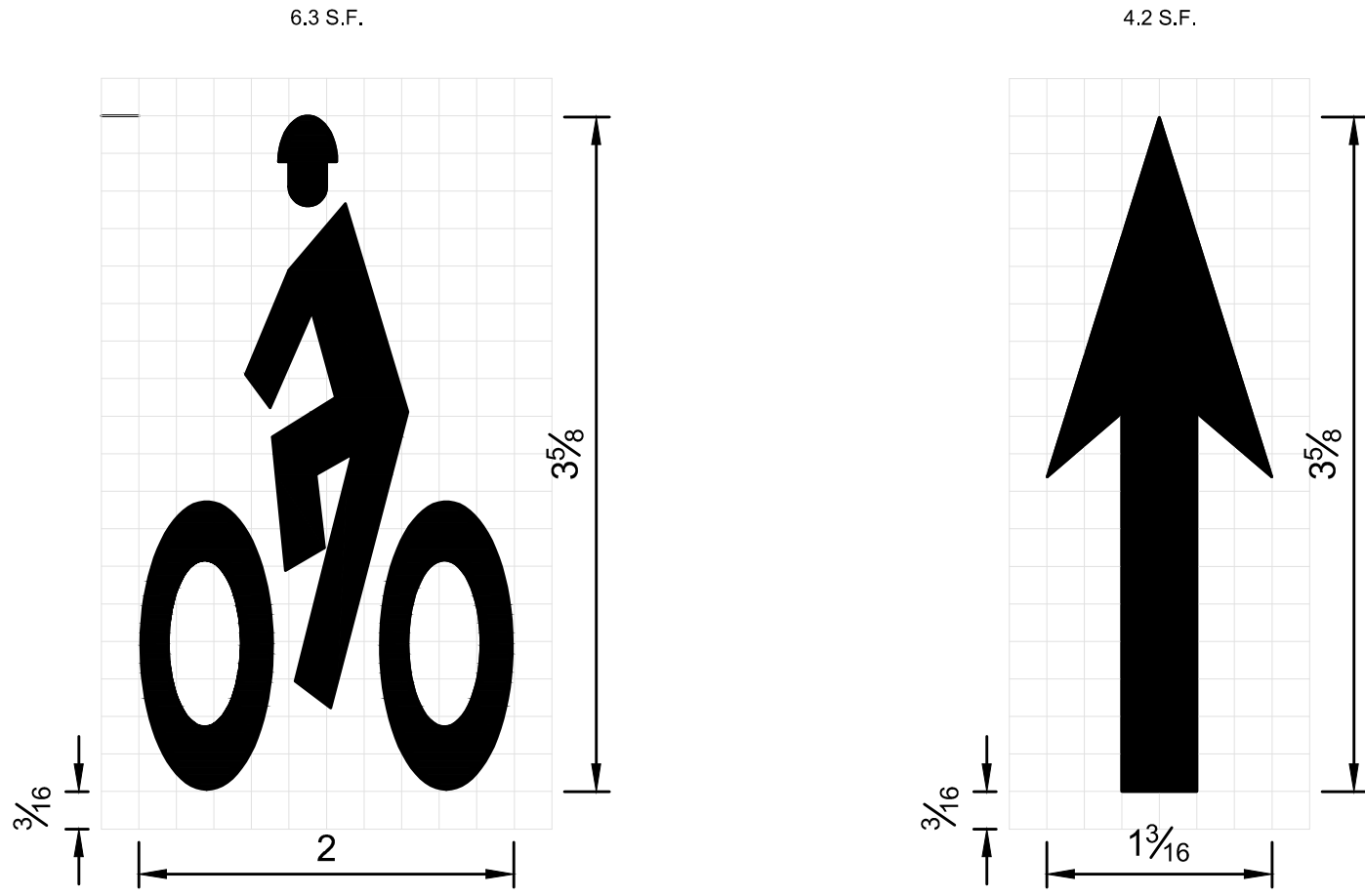
"ONE WAY " SIGN R6-1L
NOT TO SCALE

FDOT



BIKE "SHARROW" SYMBOL
NOT TO SCALE

FDOT



HELMETED BICYCLIST SYMBOL

BIKE LANE ARROW

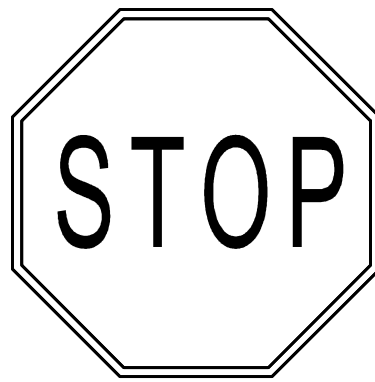
NOTES:

1. ALL BICYCLE MARKINGS AND PAVEMENT MESSAGES SHALL BE WHITE.
2. ALL BICYCLE MARKINGS SHALL BE PERFORMED THERMOPLASTIC.
3. RECOMMENDED PLACEMENT OF BICYCLE LANE MARKINGS:
 - 3.a. AT THE BEGINNING OF A BICYCLE LANE, ON THE FAR SIDE OF MAJOR INTERSECTIONS, AND PRIOR TO AND WITHIN THE BICYCLE LANE KEYHOLE.
 - 3.b. ALONG THE ROADWAY AS NEEDED TO PROVIDE A MAXIMUM SPACING OF 1,320 FEET FOR POSTED SPEEDS LESS THAN OR EQUAL TO 45 MPH, 2,640 FEET FOR A POSTED SPEED OF 50 MPH OR GREATER.
4. RECOMMENDED SPACING FOR SHARED LANE MARKING (SLM): IMMEDIATELY AFTER INTERSECTIONS AND AT A MAXIMUM SPACING OF 500 FEET.
5. EXISTING BICYCLE MARKINGS TO BE SANDBLASTED.
6. BIKE SIGNAGE ON POLES TO BE POLYESTER POWDER COATED.
7. THERMOPLASTIC PAINT WILL BE THE DEDUCT ALTERNATE.

FDOT STRIPING
NOT TO SCALE

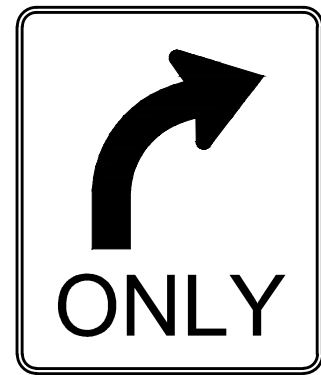
KHA

FDOT



36" X 36"
"STOP " SIGN R1-1
NOT TO SCALE

FDOT



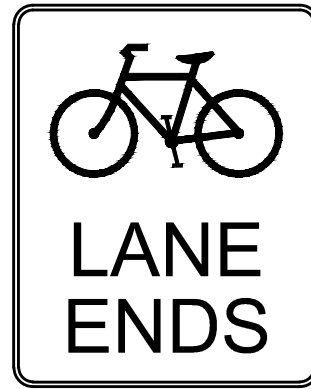
30" X 36"
"RIGHT TURN ONLY " SIGN R3-5R
NOT TO SCALE

FDOT



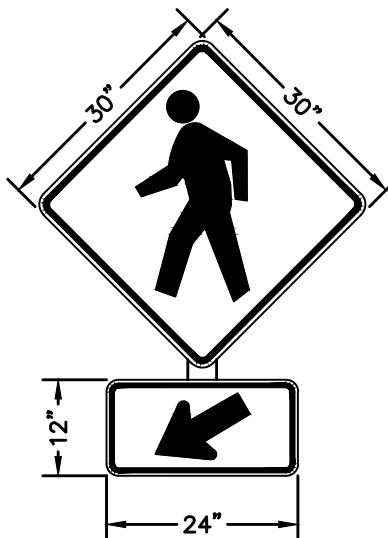
30" X 36"
"LEFT TURN ONLY " SIGN R3-5L
NOT TO SCALE

FDOT



30" X 36"
"BIKE LANE ENDS " SIGN R3-16A
NOT TO SCALE

FDOT



NOTES:
1. BOTH SIGNS SHALL BE IN ACCORDANCE WITH THE LATEST MUTCD EDITION, WARNING SIGNS W11-2 (TOP) AND W16-7PL (BOTTOM) WITH A BLACK LEGEND ON A FLUORESCENT YELLOW-GREEN BACKGROUND.

"PEDESTRIAN CROSSING " SIGN W11-2 & W16-7PL
NOT TO SCALE

FDOT

FDOT

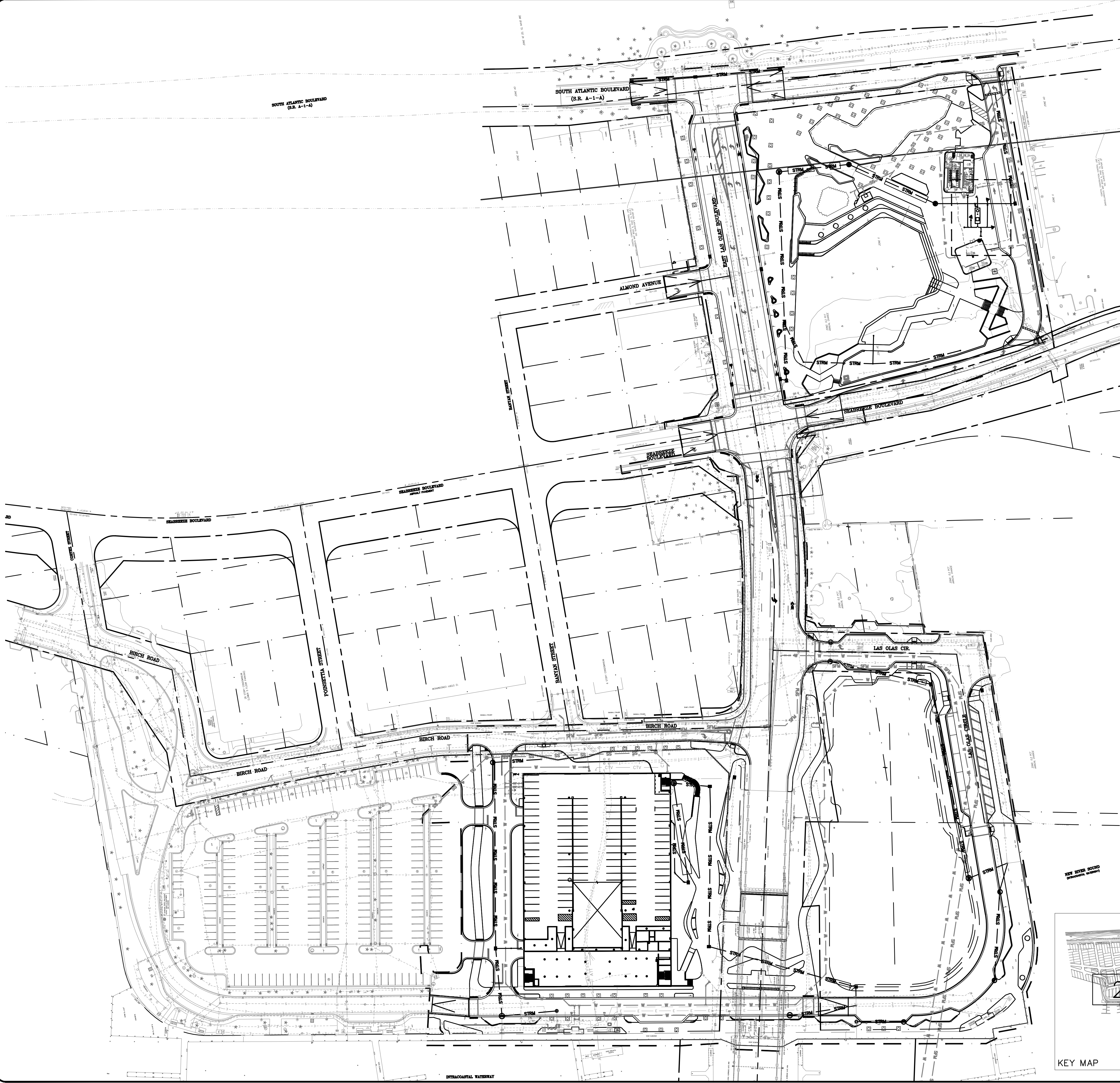
FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD DETAIL

FTL

CITY OF FORT LAUDERDALE
STANDARD DETAIL

KHA

KIMLEY-HORN AND
ASSOCIATES DETAIL



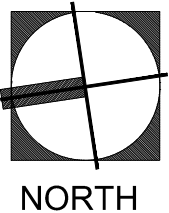
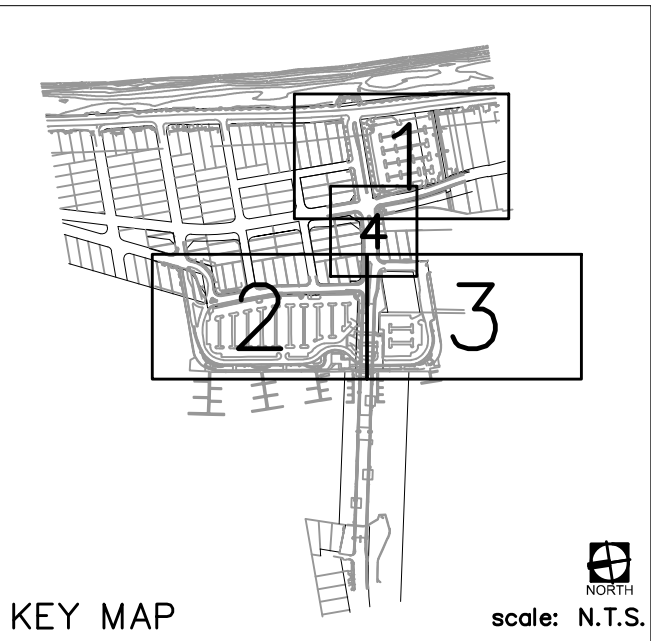
GRADING AND DRAINAGE NOTES:

- DRAINAGE STRUCTURES SHALL BE CONSTRUCTED USING U.S. PRECAST (USP), U.S. FOUNDRY (USF), OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD (FDOT) PRODUCTS AS SPECIFIED, OR APPROVED EQUAL.
- ALL STORM STRUCTURES SHALL HAVE A MINIMUM 12" SUMP.
- ALL STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) WITHIN FDOT RIGHT-OF-WAY.
- ALL STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) OR HIGH DENSITY POLY-ETHYLENE (HDPE) PIPE, WITHIN CITY PROPERTY AND RIGHT-OF-WAY.
- ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ALL FITTINGS, COUPLINGS, OR ADAPTERS NECESSARY TO CONNECT TO THE BUILDING PLUMBING AND TO CONNECT ROOF LEADERS TO THE MAIN STORM LINES. ALL ROOF LEADERS SHALL BE AT 1% MIN. SLOPE UNLESS OTHERWISE NOTED. COORDINATE BUILDING ENTRIES WITH PLUMBING PLANS.
- THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0%. THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMPS) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMPS SHALL NOT EXCEED 1V:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).
- CONTRACTOR SHALL CLEAN ALL PROPOSED AND EXISTING IMPACTED DOWNSTREAM/DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
- REFER TO LANDSCAPE PLANS FOR ALL HARDSCAPE AND PAVING MATERIALS AND PATTERNS.
- ALL VALLEY INLET RIM ELEVATIONS REFER TO CENTER OF GRATE.
- ALL TYPE "D" CURB, TYPE "F" CURB AND GUTTER AND DROP CURB SHALL CONFORM WITH FDOT INDEX 300.
- GEOTEXTILE MATERIAL USED IN THE CONSTRUCTION OF EXFILTRATION TRENCHES SHALL BE IN ACCORDANCE WITH THE CRITERIA OF FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS" LATEST EDITION AND CITY OF FORT LAUDERDALE SPECIFICATIONS.
- MINIMUM COVER FOR HDPE PIPE UNDER ASPHALT SHALL BE 24" COMPACTED LIMEROCK BASE. MINIMUM COVER FOR PIPE UNDER GRASS SHALL BE 18" COMPACTED SUBGRADE.
- ALL CURB RAMPS (CR) SHALL COMPLY WITH FDOT INDEX 304
- ALL YARD DRAINS TO BE CONSTRUCTED WITH A CONCRETE COLLAR AS PROVIDED IN DETAILS
- REFER TO SHEET C5-2.00 FOR LIMITS OF PAVING.
- CONTRACTOR SHALL FIELD VERIFY EXISTING STRUCTURE SIZES FOR ALL OUTFALL STRUCTURES TO RECEIVE NEW BAFFLES. CONTRACTOR SHALL PROVIDE CUSTOM ALUMINUM BAFFLE DESIGN FOR ENGINEER'S REVIEW PRIOR TO FABRICATION.

LEGEND:

- | | |
|-----|-----------------------------|
| --- | RIGHT-OF-WAY LINE |
| --- | PROPOSED WATER MAIN |
| --- | PROPOSED STORM PIPE |
| --- | PROPOSED GRAVITY SEWER MAIN |
| --- | EXISTING WATER MAIN |
| --- | EXISTING GRAVITY SEWER MAIN |
| --- | EXISTING STORM PIPE |
| --- | EXISTING SEWER FORCE MAIN |
| --- | EXISTING GRADE |

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.59' = (NGVD 1929)



SCALE: 1"=60'-0"



100% DOCUMENTS - FOR CONSTRUCTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL
OVERALL GRADING AND DRAINAGE PLAN

SHEET NO.
C5-1.00

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

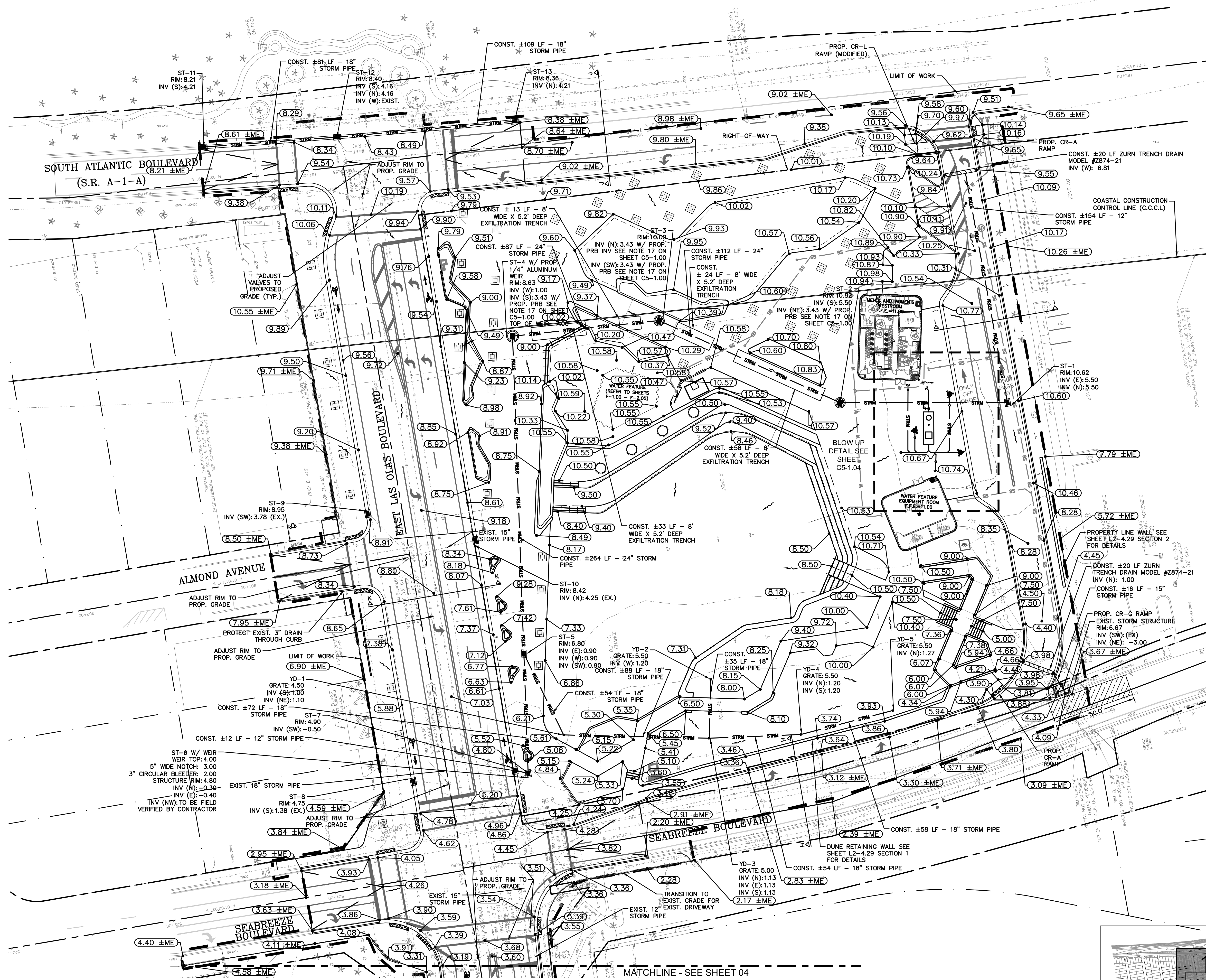
NO.	DATE	BY	CHK'D	DESCRIPTION	KHA	PERMIT COMMENTS C
1	01/12/18	KHA				

SEAL:
JASON A. WEBBER, P.E.
73962
KHA PROJ # 040814003

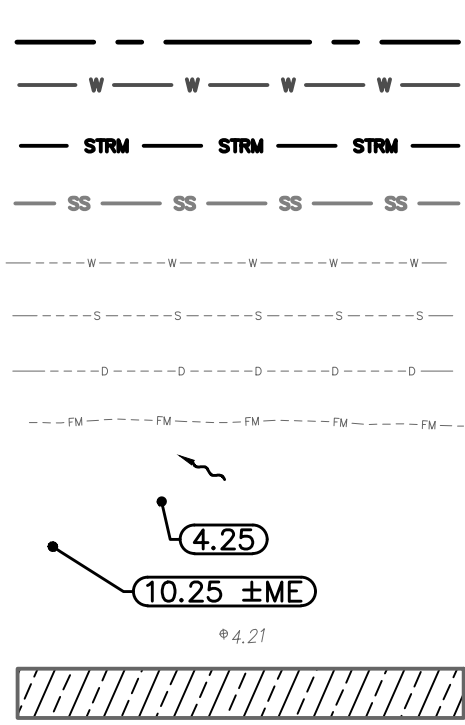
DRAWN BY: JJ	DATE: 06/28/2017	DESIGNED BY: JJ	SCALE: AS SHOWN	CHECKED BY: JAW	FIELD BOOK:
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Kimley-Horn
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PHONE: 561-332-2345 FAX: 561-332-2345
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LEGEND:



- RIGHT-OF-WAY LINE
PROPOSED WATER MAIN
PROPOSED STORM PIPE
PROPOSED GRAVITY SEWER MAIN
EXISTING WATER MAIN
EXISTING STORM PIPE
EXISTING GRAVITY SEWER MAIN
FLOW ARROW
PROPOSED GRADE
MATCH EXISTING GRADE
EXISTING GRADE
LIMITS OF MILLING AND RESURFACING FOR CONNECTION OF SANITARY SEWER. SEE DETAIL ON SHEET C5-4.01.

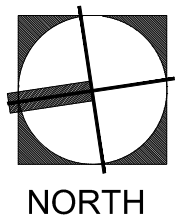
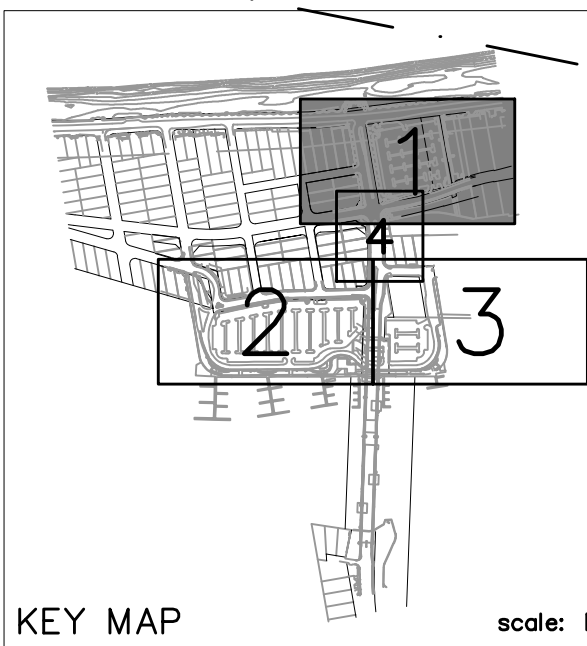
GRADING AND DRAINAGE NOTES:

- DRAINAGE STRUCTURES SHALL BE CONSTRUCTED USING U.S. PRECAST (USP), U.S. FOUNDRY (USF), OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD (FDOT) PRODUCTS AS SPECIFIED, OR APPROVED EQUAL.
- ALL STORM STRUCTURES SHALL HAVE A MINIMUM 12" SUMP.
- ALL STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) WITHIN FDOT RIGHT-OF-WAY.
- ALL STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) OR HIGH DENSITY POLY-ETHYLENE (HDPE) PIPE, WITHIN CITY PROPERTY AND RIGHT-OF-WAY.
- ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ALL FITTINGS, COUPLINGS, OR ADAPTERS NECESSARY TO CONNECT TO THE BUILDING PLUMBING AND TO CONNECT ROOF LEADERS TO THE MAIN STORM LINES. ALL ROOF LEADERS SHALL BE AT 1% MIN. SLOPE UNLESS OTHERWISE NOTED. COORDINATE BUILDING ENTRIES WITH PLUMBING PLANS.
- THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0%. THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMPS) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMPS SHALL NOT EXCEED 1:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).
- CONTRACTOR SHALL CLEAN ALL PROPOSED AND EXISTING IMPACTED DOWNSTREAM/DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
- REFER TO LANDSCAPE PLANS FOR ALL HARDSCAPE AND PAVING MATERIALS AND PATTERNS.
- ALL VALLEY INLET RIM ELEVATIONS REFER TO CENTER OF GRADE.
- ALL TYPE "D" CURB, TYPE "T" CURB AND GUTTER AND DROP CURB SHALL CONFORM WITH FDOT INDEX 300.
- GEOTEXTILE MATERIAL USED IN THE CONSTRUCTION OF EXFILTRATION TRENCHES SHALL BE IN ACCORDANCE WITH THE CRITERIA OF FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS" LATEST EDITION AND CITY OF FORT LAUDERDALE SPECIFICATIONS.
- MINIMUM COVER FOR HDPE PIPE UNDER ASPHALT SHALL BE 24" COMPACTED LIMEROCK BASE. MINIMUM COVER FOR PIPE UNDER GRASS SHALL BE 18" COMPACTED SUBGRADE.
- ALL CURB RAMPS (CR) SHALL COMPLY WITH FDOT INDEX 304
- ALL YARD DRAINS TO BE CONSTRUCTED WITH A CONCRETE COLLAR AS PROVIDED IN DETAILS
- REFER TO SHEET C5-2.00 FOR LIMITS OF PAVING.
- CONTRACTOR SHALL FIELD VERIFY EXISTING STRUCTURE SIZES FOR ALL OUTFALL STRUCTURES TO RECEIVE NEW BAFFLES. CONTRACTOR SHALL PROVIDE CUSTOM ALUMINUM BAFFLE DESIGN FOR ENGINEER'S REVIEW PRIOR TO FABRICATION.

STRUCTURE LIST:

- | NO. | DATE | BY | CHK'D | DESCRIPTION | KHA | PERMIT COMMENTS C |
|-------|------|----|-------|--|-----|-------------------|
| ST-1 | | | | CONST. USP 3-4.0 WITH USF FRAME AND GRATE 4155-6210 | | |
| ST-2 | | | | CONST. USP 3-9.7 WITH USF FRAME AND GRATE 4123-6179 | | |
| ST-3 | | | | CONST. USP 3-9.5 WITH USF FRAME AND GRATE 4123-6179 | | |
| ST-4 | | | | CONST. USP 3-9.7 WITH USF FRAME AND GRATE 4123-6179 | | |
| ST-5 | | | | CONST. USP 3-9.7 WITH USF FRAME AND GRATE 4123-6179 | | |
| ST-6 | | | | CONST. STRUCTURE REFER TO DETAIL ON SHEET C5-4.02 | | |
| ST-7 | | | | CONST. FDOT GUTTER INLET TYPE V WITH USF GUTTER INLET GRATE 6651 | | |
| ST-8 | | | | CONST. FDOT GUTTER INLET TYPE V WITH USF GUTTER INLET GRATE 6651 | | |
| ST-9 | | | | CONST. FDOT GUTTER INLET TYPE V WITH USF GUTTER INLET GRATE 6651 | | |
| ST-10 | | | | CONST. FDOT GUTTER INLET TYPE V WITH USF GUTTER INLET GRATE 6651 | | |
| ST-11 | | | | CONST. FDOT GUTTER INLET TYPE V WITH USF GUTTER INLET GRATE 6651 | | |
| ST-12 | | | | CONST. FDOT GUTTER INLET TYPE V WITH USF GUTTER INLET GRATE 6651 | | |
| ST-13 | | | | CONST. FDOT GUTTER INLET TYPE V WITH USF GUTTER INLET GRATE 6651 | | |
| YD-1 | | | | CONST. ADS DRAIN BASIN 18" DIAMETER (#281246), 18" STANDARD H-20 (#12990C6S) | | |
| YD-2 | | | | CONST. ADS DRAIN BASIN 18" DIAMETER (#281246), 18" STANDARD H-20 (#12990C6S) | | |
| YD-3 | | | | CONST. ADS DRAIN BASIN 18" DIAMETER (#281246), 18" STANDARD H-20 (#12990C6S) | | |
| YD-4 | | | | CONST. ADS DRAIN BASIN 18" DIAMETER (#281246), 18" STANDARD H-20 (#12990C6S) | | |
| YD-5 | | | | CONST. ADS DRAIN BASIN 18" DIAMETER (#281246), 18" STANDARD H-20 (#12990C6S) | | |

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.59' = (NGVD 1929)



SCALE: 1"=30'-0"



100% DOCUMENTS - FOR CONSTRUCTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

SHEET NO.
C5-1.01

GRADING AND DRAINAGE PLAN

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

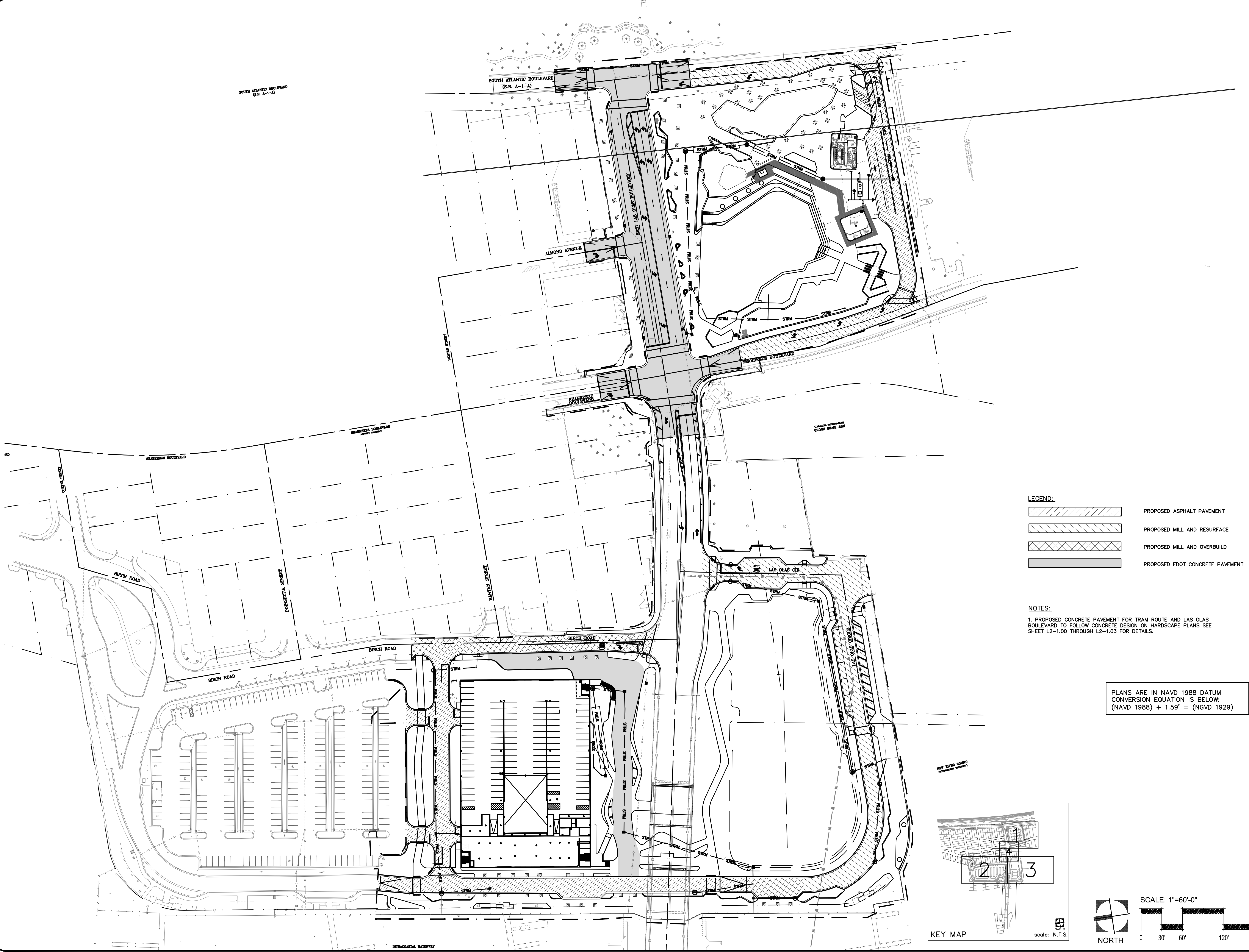
NO.	DATE	BY	CHK'D	DESCRIPTION	KHA	PERMIT COMMENTS C
1	01/12/18	JJA				

SEAL:
JASON A. WEBBER, P.E.
73962

KHA PROJ # 040814003

DRAWN BY:	DATE:	DESIGNED BY:	SCALE:	AS SHOWN
JJA	06/28/2017	JJA		

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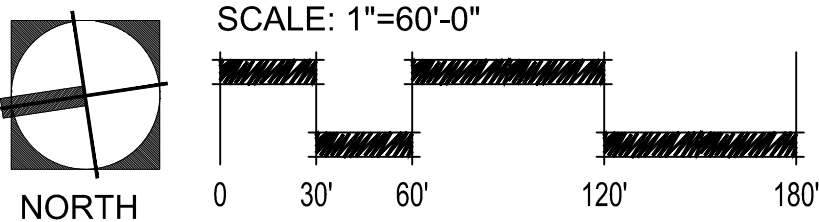
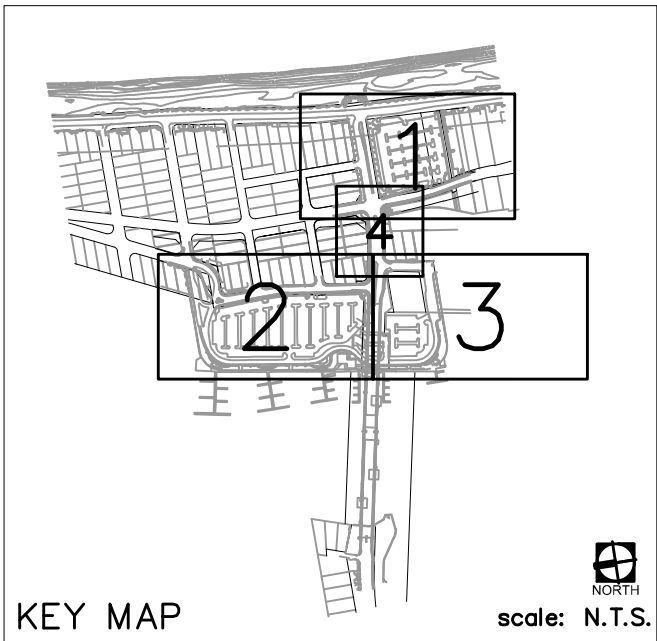


LEGEND:

[Hatched Pattern]	PROPOSED ASPHALT PAVEMENT
[Hatched Pattern]	PROPOSED MILL AND RESURFACE
[Hatched Pattern]	PROPOSED MILL AND OVERBUILD
[Hatched Pattern]	PROPOSED FDOT CONCRETE PAVEMENT

NOTES:
1. PROPOSED CONCRETE PAVEMENT FOR TRAM ROUTE AND LAS OLAS BOULEVARD TO FOLLOW CONCRETE DESIGN ON HARDSCAPE PLANS SEE SHEET L2-1.00 THROUGH L2-1.03 FOR DETAILS.

PLANS ARE IN NAVD 1988 DATUM
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100% DOCUMENTS - FOR CONSTRUCTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL
OVERALL PAVING PLAN

SHEET NO.
C5-2.00

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION
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SEAL:

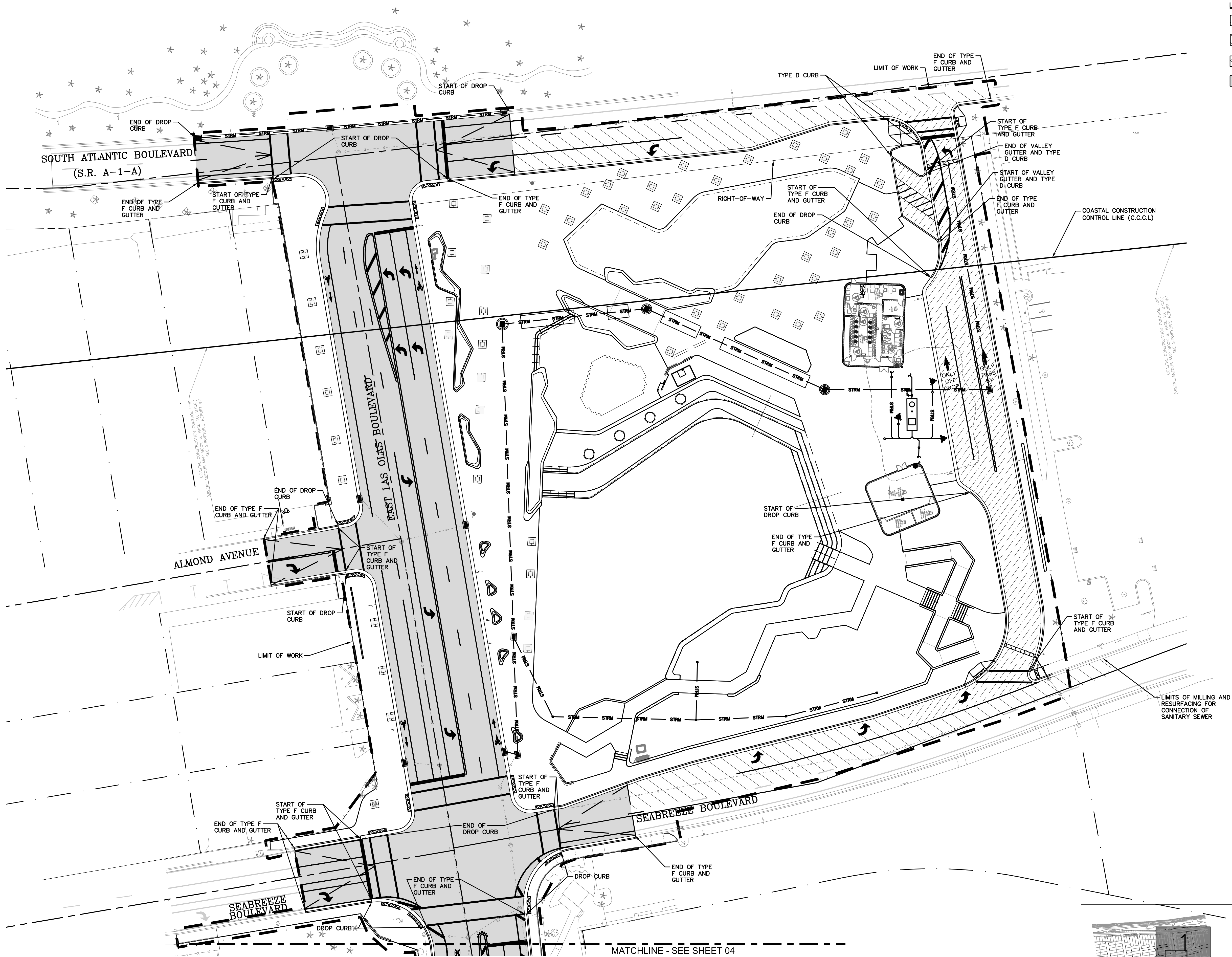
JASON A. WEBBER, P.E.
73962

KHA PROJ # 040814003

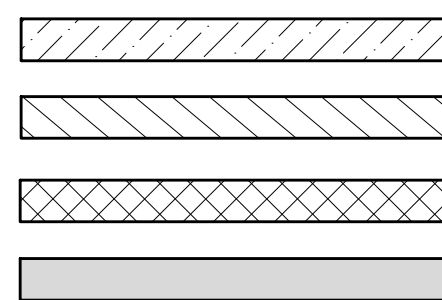
DATE: 06/28/2017	SCALE: AS SHOWN
DRAWN BY: JJ	DESIGNED BY: JJ
CHECKED BY: JAW	FIELD BOOK:

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Kimley»Horn
1615 S CONGRESS AVE, SUITE 201,
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PHONE: 904-330-2345 FAX: 904-330-2345
WWW.KIMLEY-HORN.COM CA 00000695
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LEGEND:



PROPOSED ASPHALT PAVEMENT
PROPOSED MILL AND RESURFACE
PROPOSED MILL AND OVERBUILD
PROPOSED FDOT CONCRETE PAVEMENT

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SEAL:
JASON A. WEBBER, P.E.
73962

KHA PROJ #: 040814003

DATE: 06/28/2017
DRAWN BY: JJ
DESIGNED BY: JJ
CHECKED BY: JAW
SCALE: AS SHOWN
FIELD BOOK:

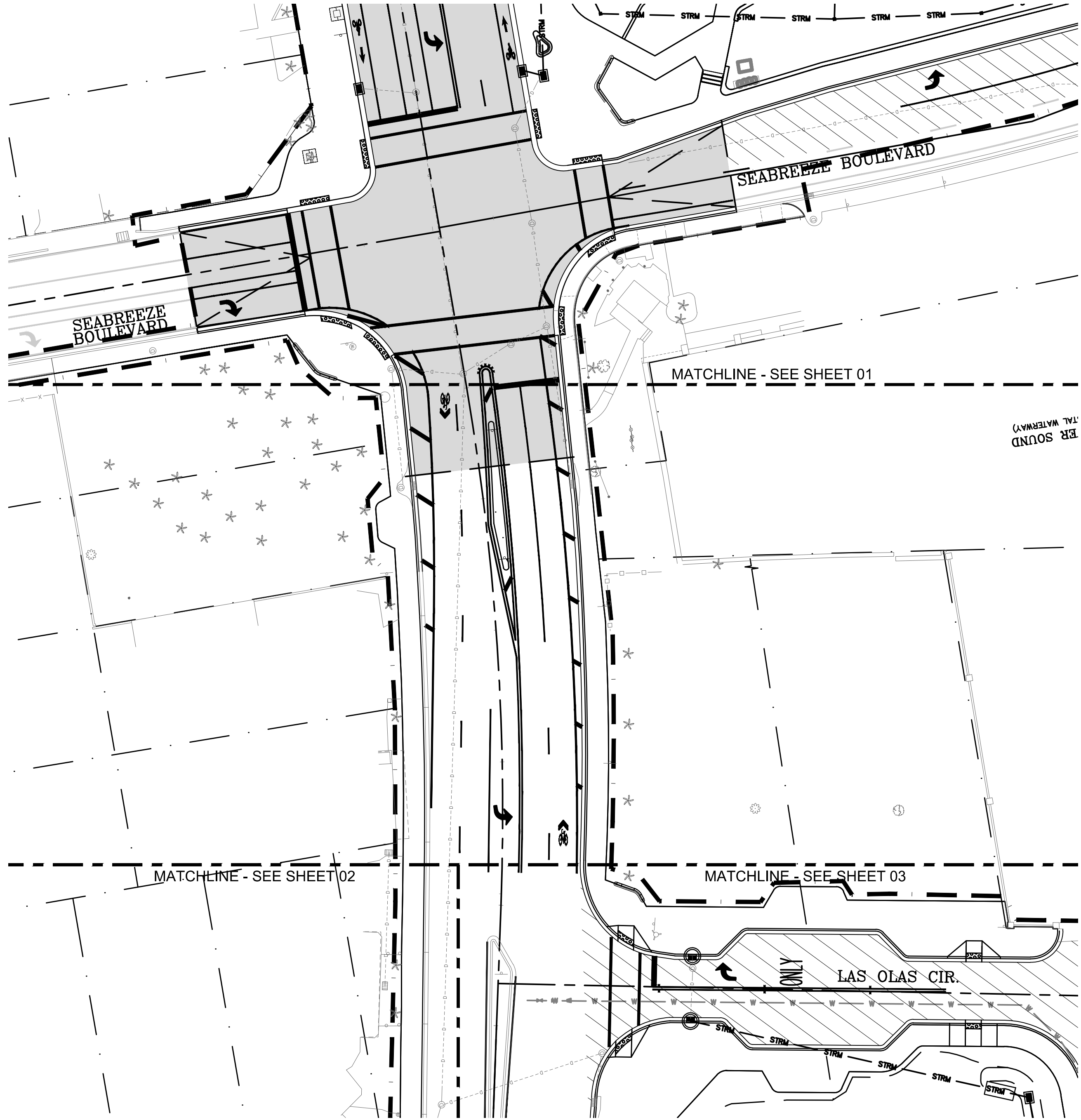
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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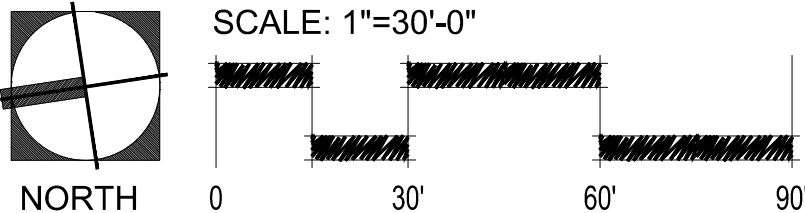
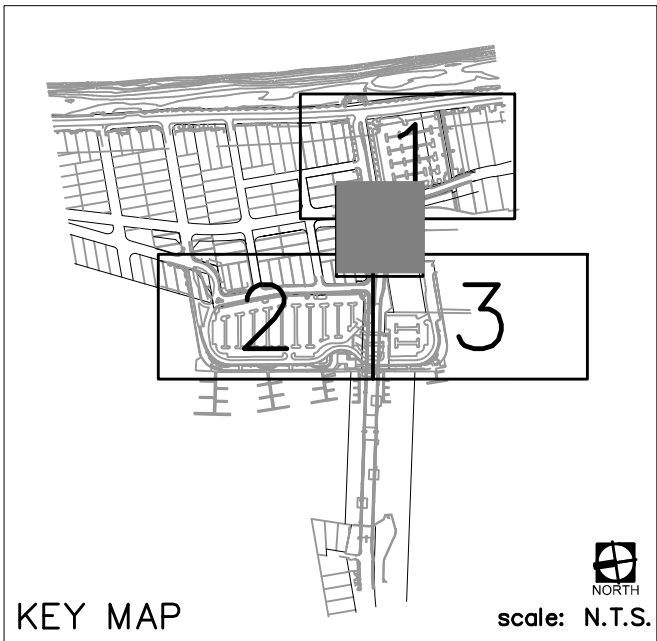
PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

PAVING PLAN

SHEET NO.
C5-2.01



PLANS ARE IN NAVD 1988 DATUM
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100% DOCUMENTS - FOR CONSTRUCTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL
PAVING PLAN

SHEET NO.
C5-2.04

REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION
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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

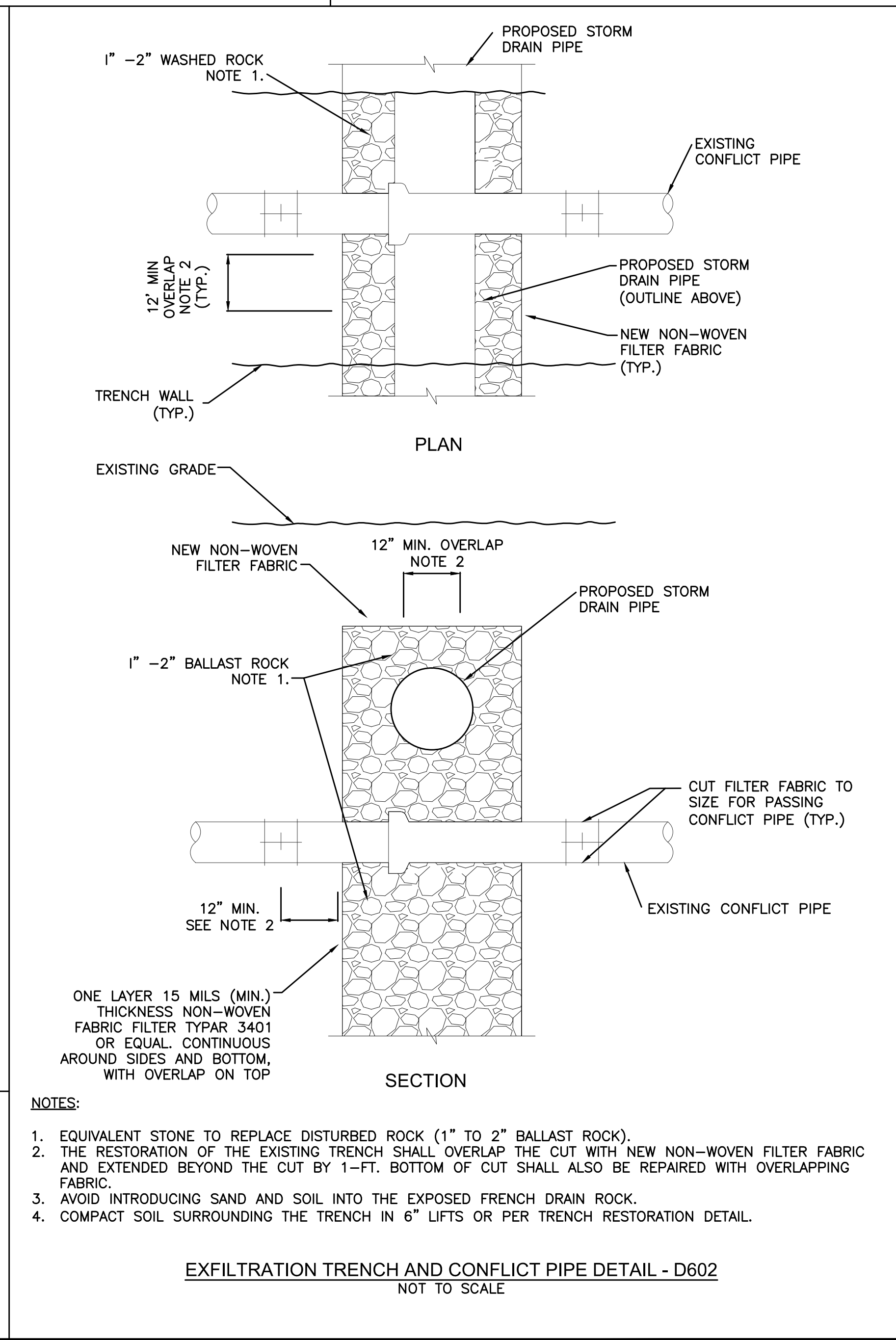
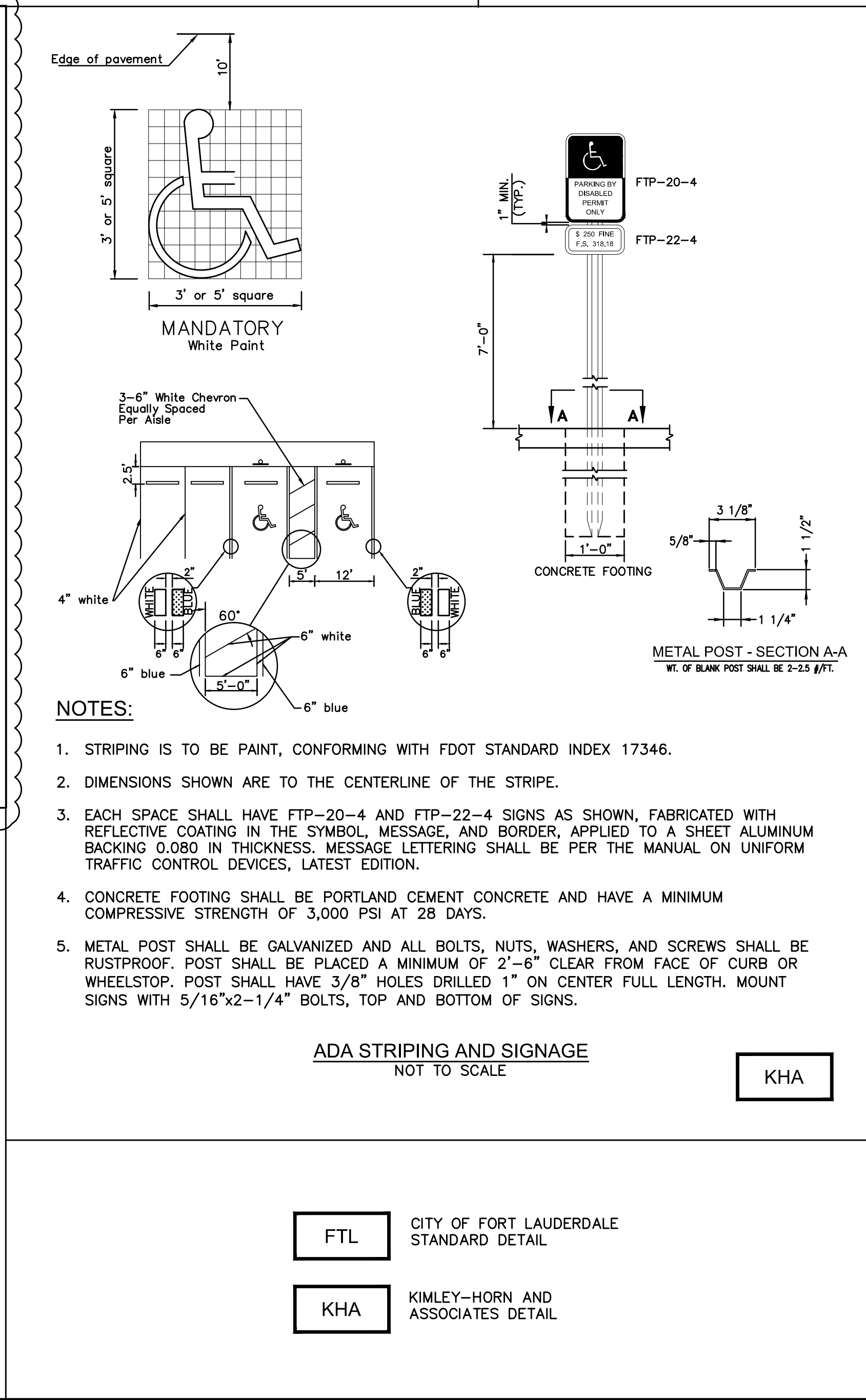
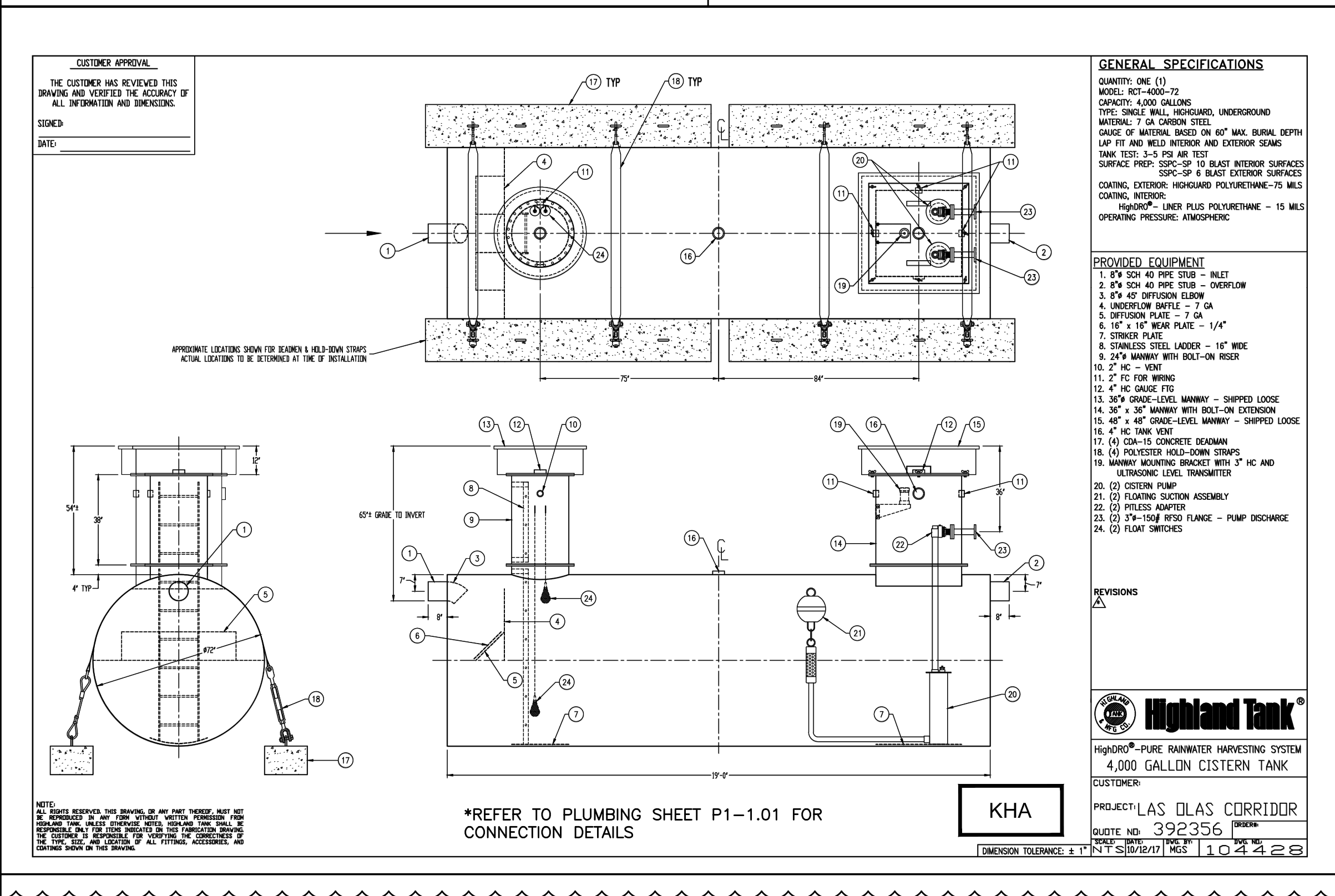
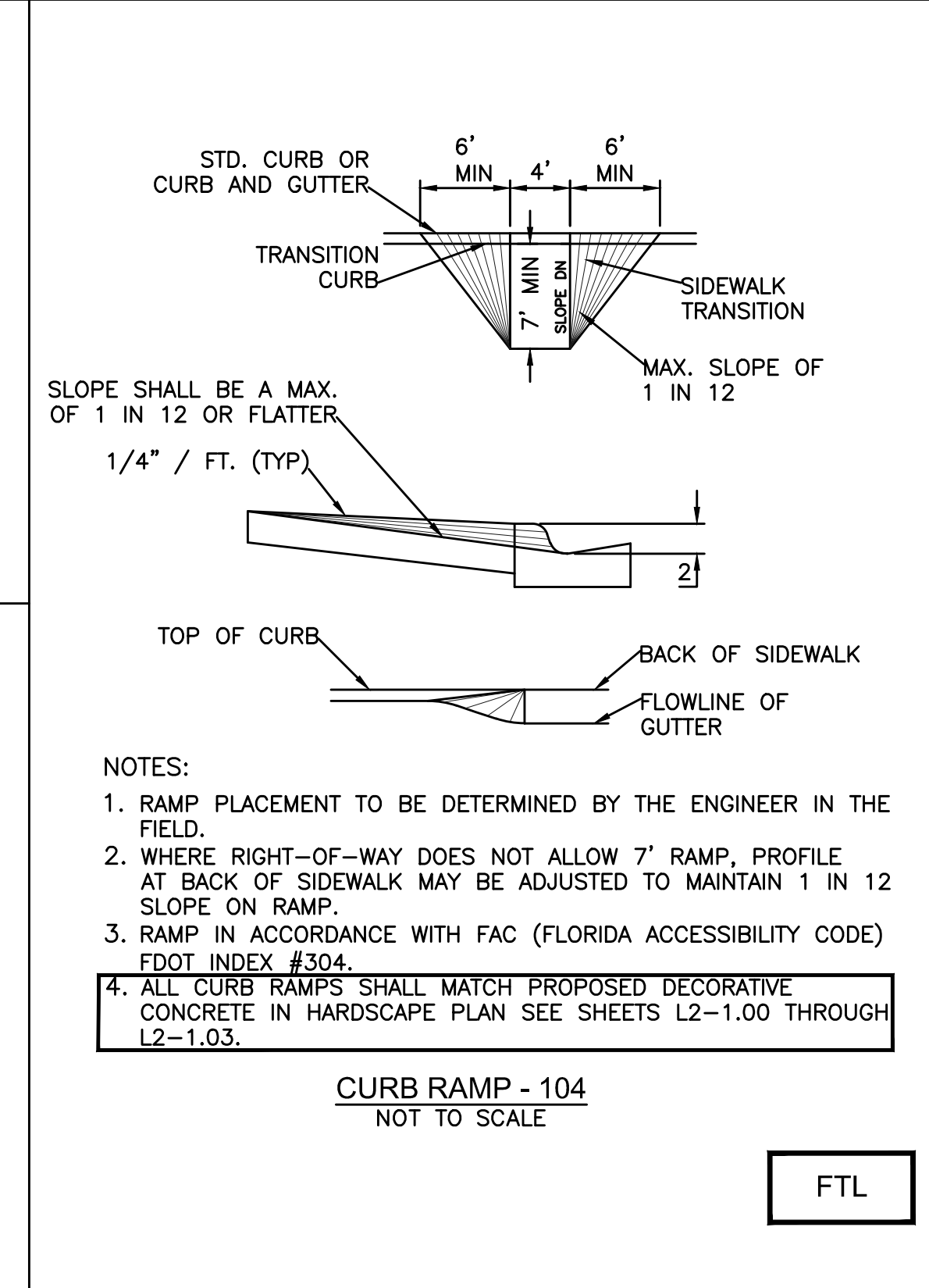
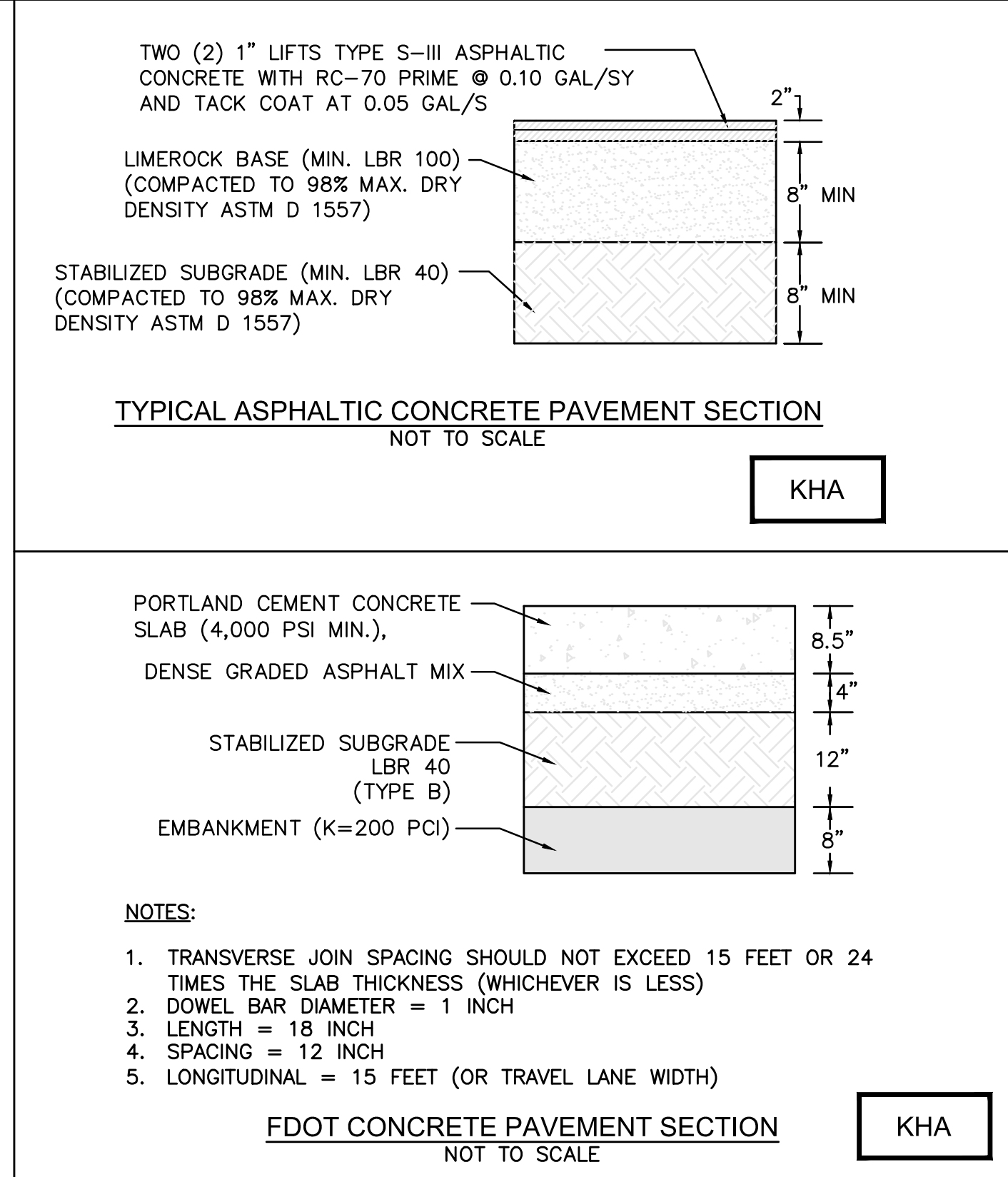
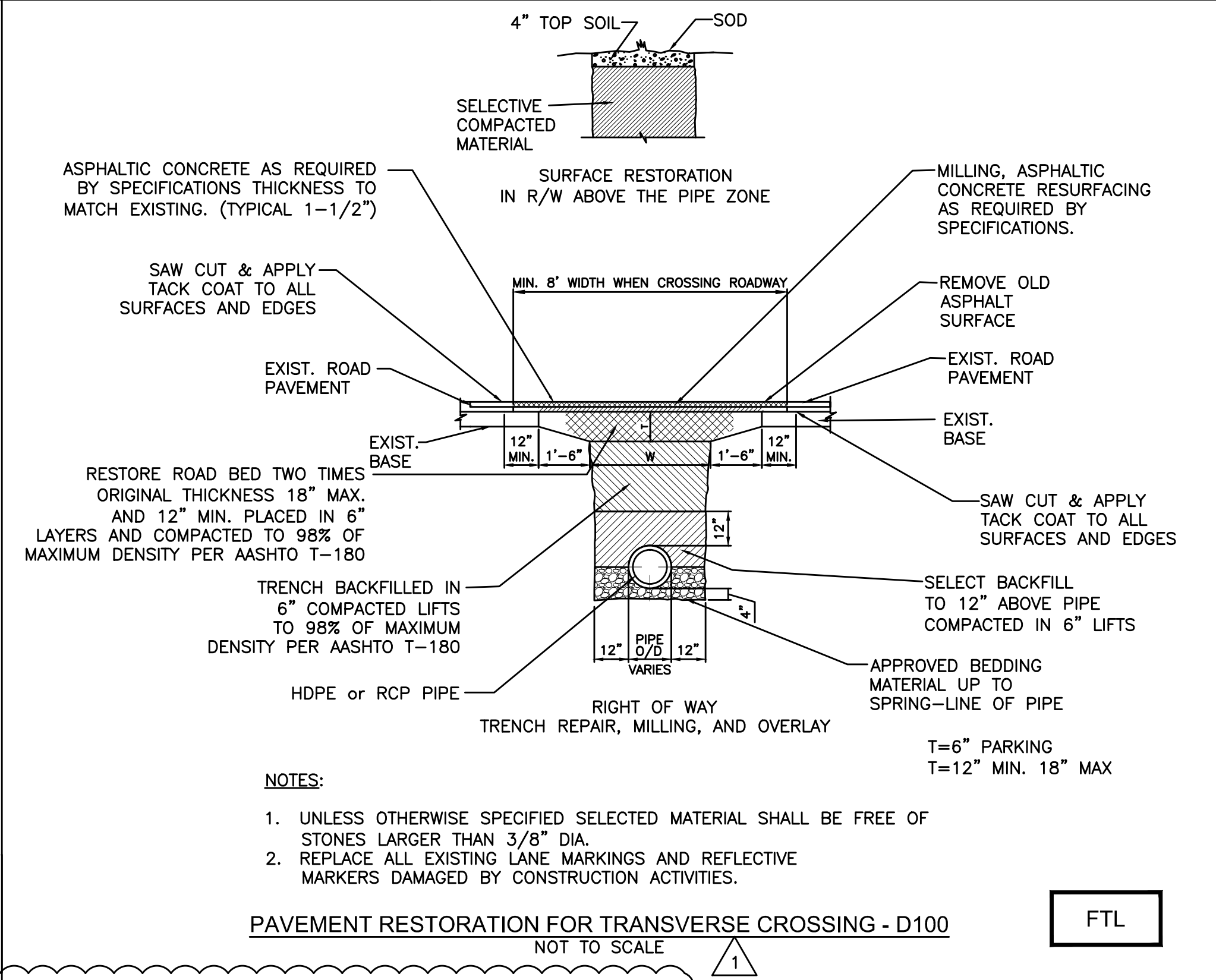
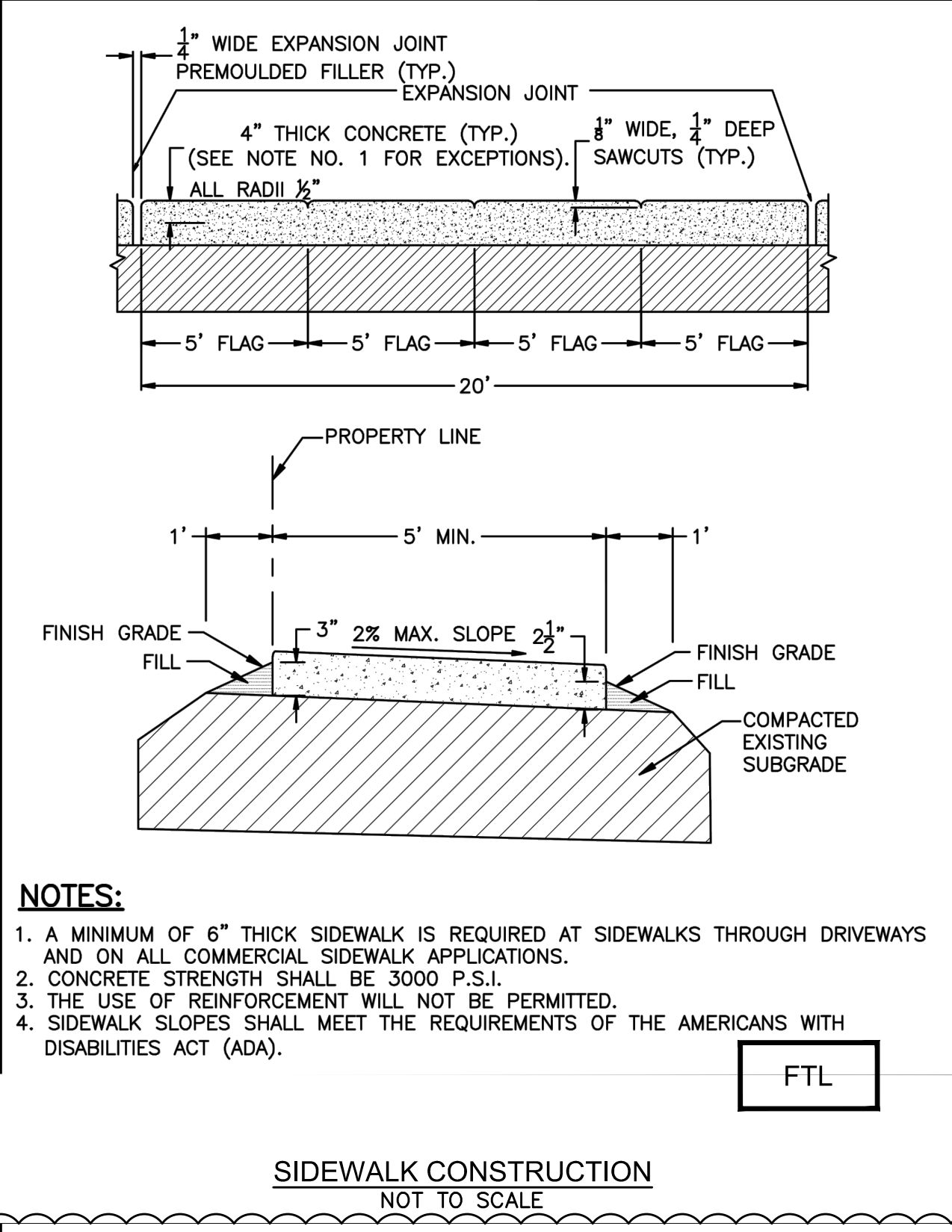
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JASON A. WEBBER, P.E.
73962

KHA PROJ #: 040814003

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SEAL:

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73962

KHA PROJ #: 040814003

DRAWN BY: JJ
DATE: 06/28/2017
CHECKED BY: JJ
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

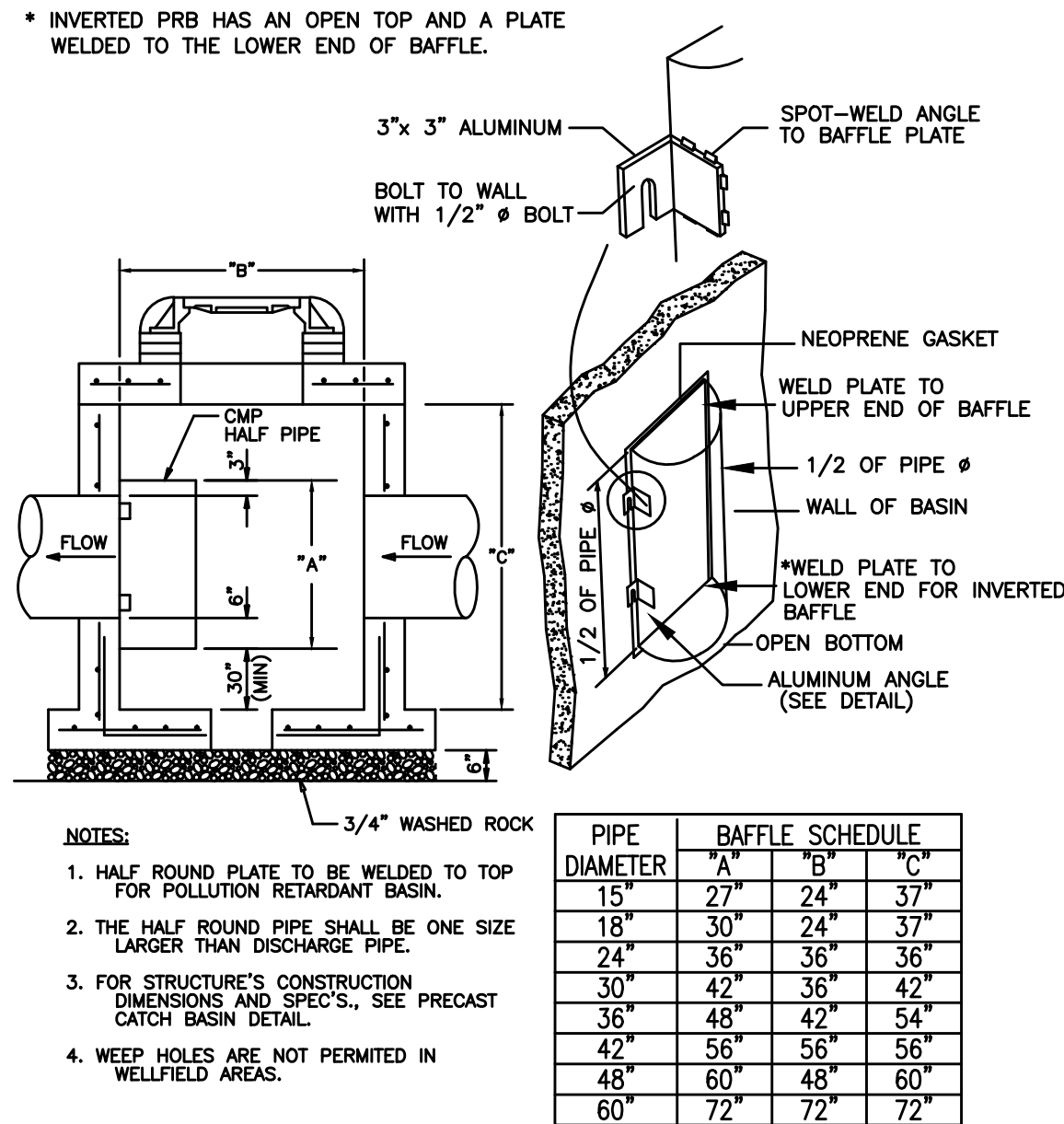
REVISIONS
NO. DATE BY CHK'D DESCRIPTION KHA PERMIT COMMENTS C
1. 01/12/18 KHA
2.

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL
PAVING, GRADING, AND DRAINAGE
DETAILS

SHEET NO.
C5-4.01

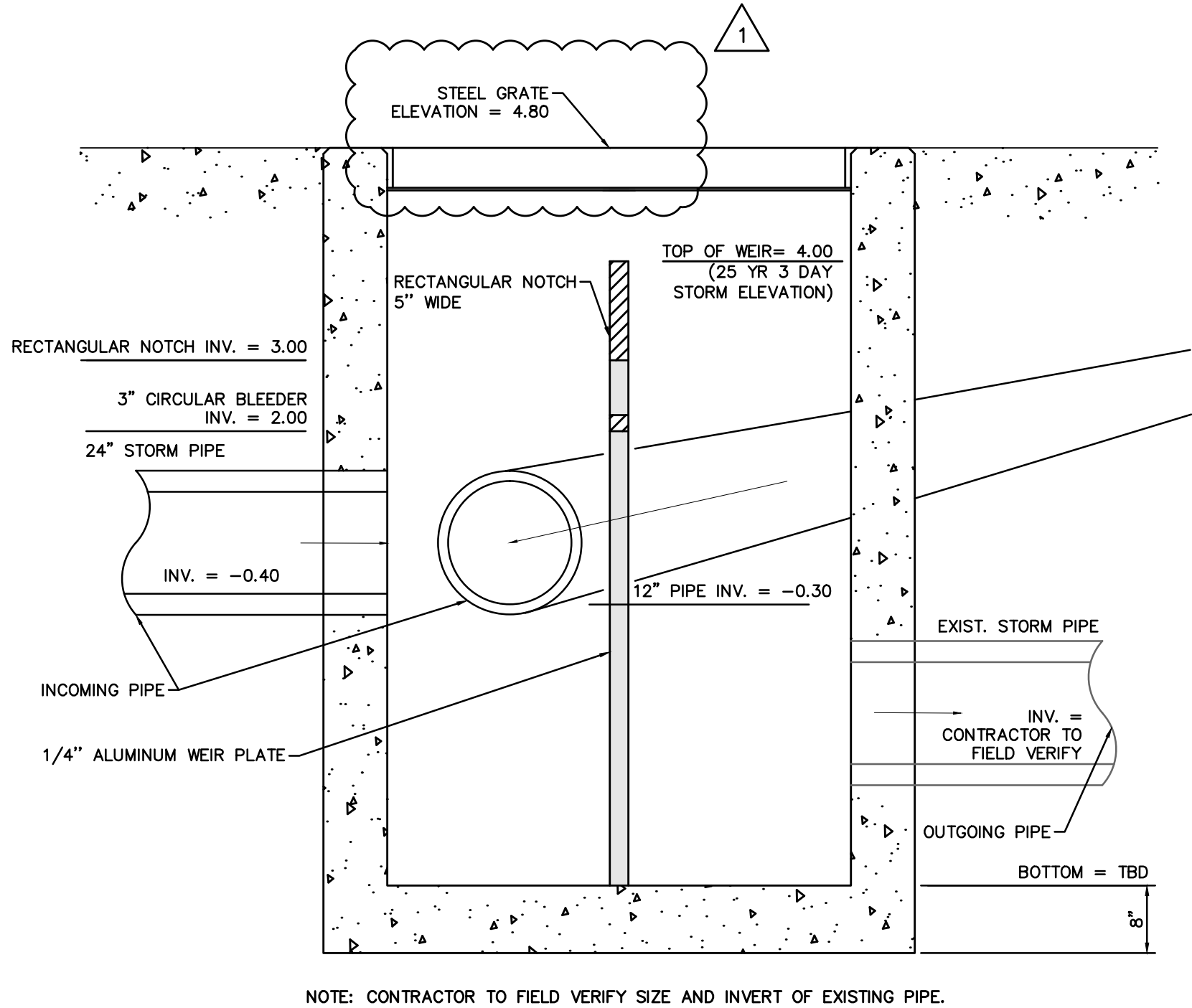
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Exhibit 1
Page 23 of 36

100% DOCUMENTS - FOR CONSTRUCTION



POLLUTION RETARDANT BAFFLE (PRB)
NOT TO SCALE

KHA

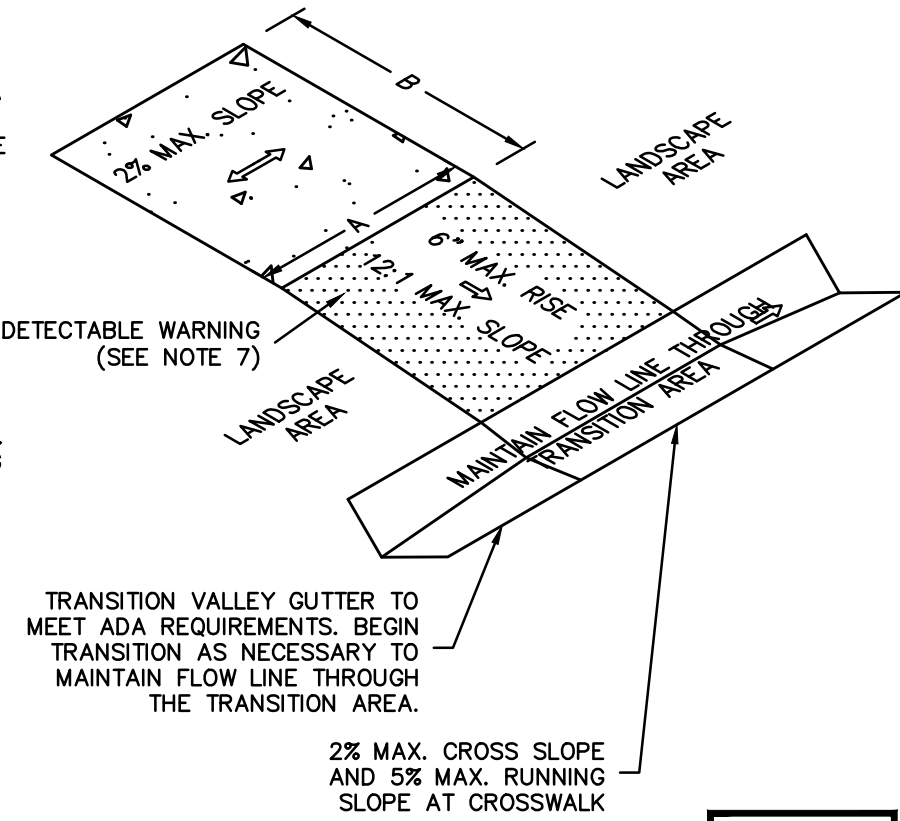


CONTROL STRUCTURE #6 DETAIL
NOT TO SCALE

(OCEANSIDE PLAZA, PERMIT PACKAGE)

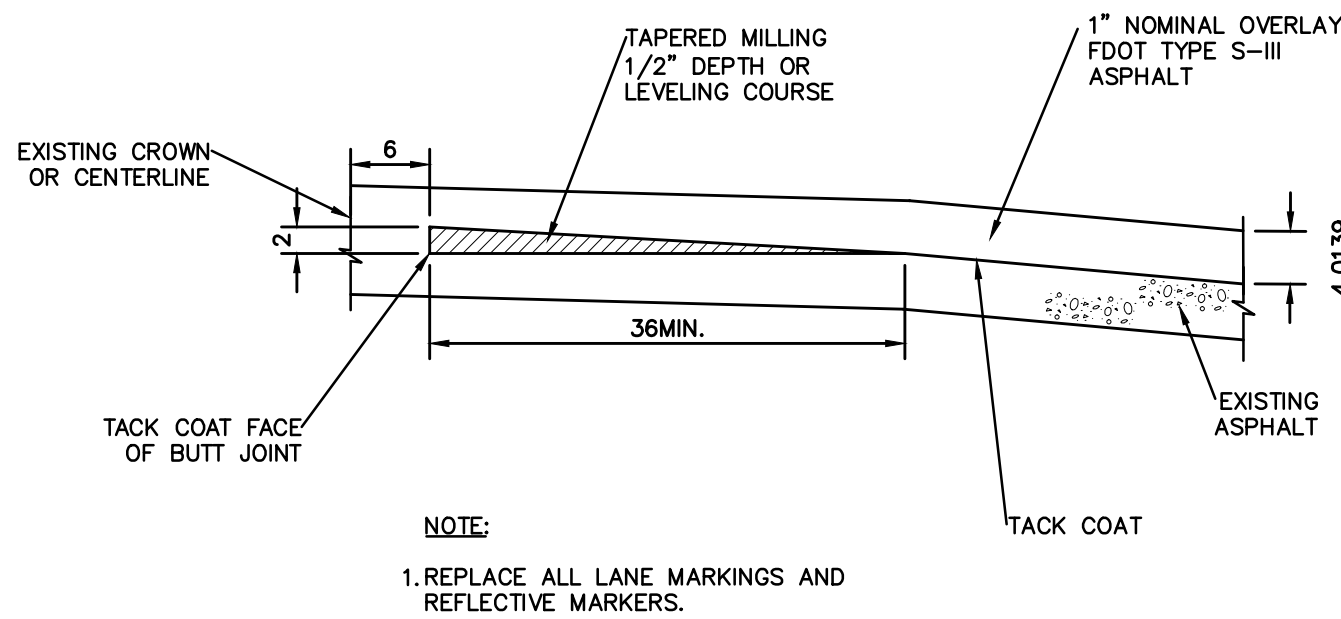
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- NOTES:
1. ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH CHAPTER 11 OF THE FLORIDA BUILDING CODE.
2. ACCESSIBLE ROUTE TO ACCESSIBLE SPACES, BUILDING ENTRANCES, AND PUBLIC STREETS SHALL NOT EXCEED 5% RUNNING SLOPE AND 2% CROSS SLOPE.
3. UNLESS OTHERWISE SHOWN ON THE PLANS, THE MINIMUM CLEAR ROUTE SHALL BE 36" WIDE WITH A 60" X 60" PASSING SPACE EVERY 200 FEET.
4. ACCESSIBLE ROUTES THROUGH PLANTERS SHALL BE LEVEL WITH THE SURROUNDING PAVEMENT OR PROVIDE CURB RAMPS AT EACH END WITH A MINIMUM 48" LEVEL LANDING IN BETWEEN.
5. THE ACCESSIBLE ROUTE IN FRONT OF PULL - IN PARKING SHALL BE A MINIMUM OF 44" WIDE AND NOT REDUCED BY VEHICLE OVERHANGS, CURBING, SIGN POSTS, OR OTHER OBSTRUCTIONS.
6. ANY WALK THAT CROSSES OR ADJOINS A VEHICULAR WAY NOT SEPARATED BY CURBS, RAILINGS, OR OTHER ELEMENTS SHALL BE DEFINED BY A CONTINUOUS 36" WIDE DETECTABLE WARNING. CURB RAMPS SHALL HAVE A DETECTABLE WARNING IN ACCORDANCE WITH FDOT STANDARDS, INDEXES, AND SPECIFICATIONS.
7. SPECIAL RAMP RULES APPLY FOR ANY RISE GREATER THAN 6" INCLUDING BUT NOT LIMITED TO RESTRICTION ON SLOPE, TOTAL RISE BETWEEN LANDINGS, AND USE OF HANDRAILS, PER F.B.C 11-4.8.
8. SIDEWALK CURB RAMPS CONSTRUCTED WITHIN A RIGHT-OF-WAY, IN ABSENCE OF LOCAL ROADWAY GUIDELINES, SHALL MEET THE REQUIREMENTS OF F.D.O.T INDEX 304.



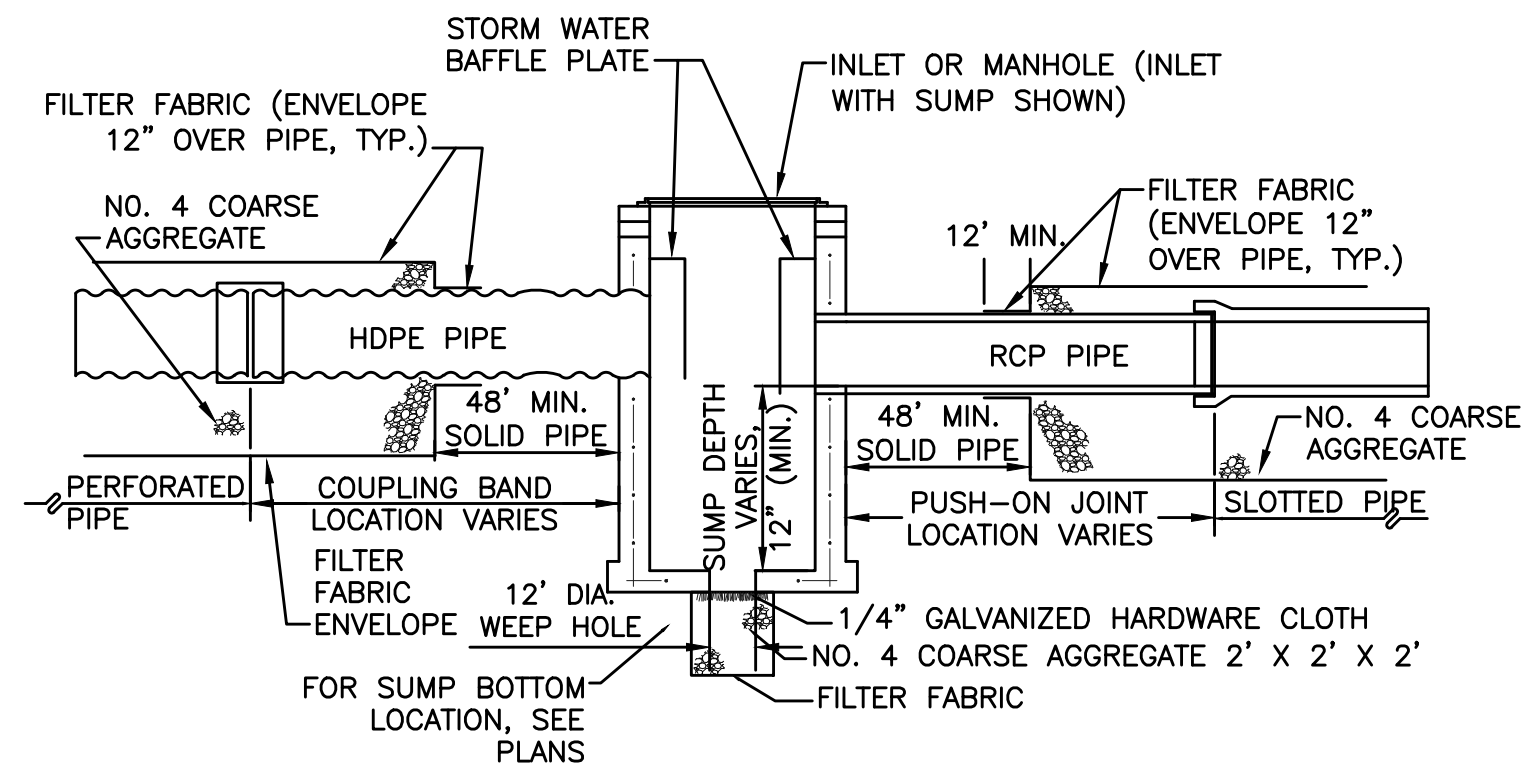
ACCESSIBLE RAMPS
NOT TO SCALE

KHA

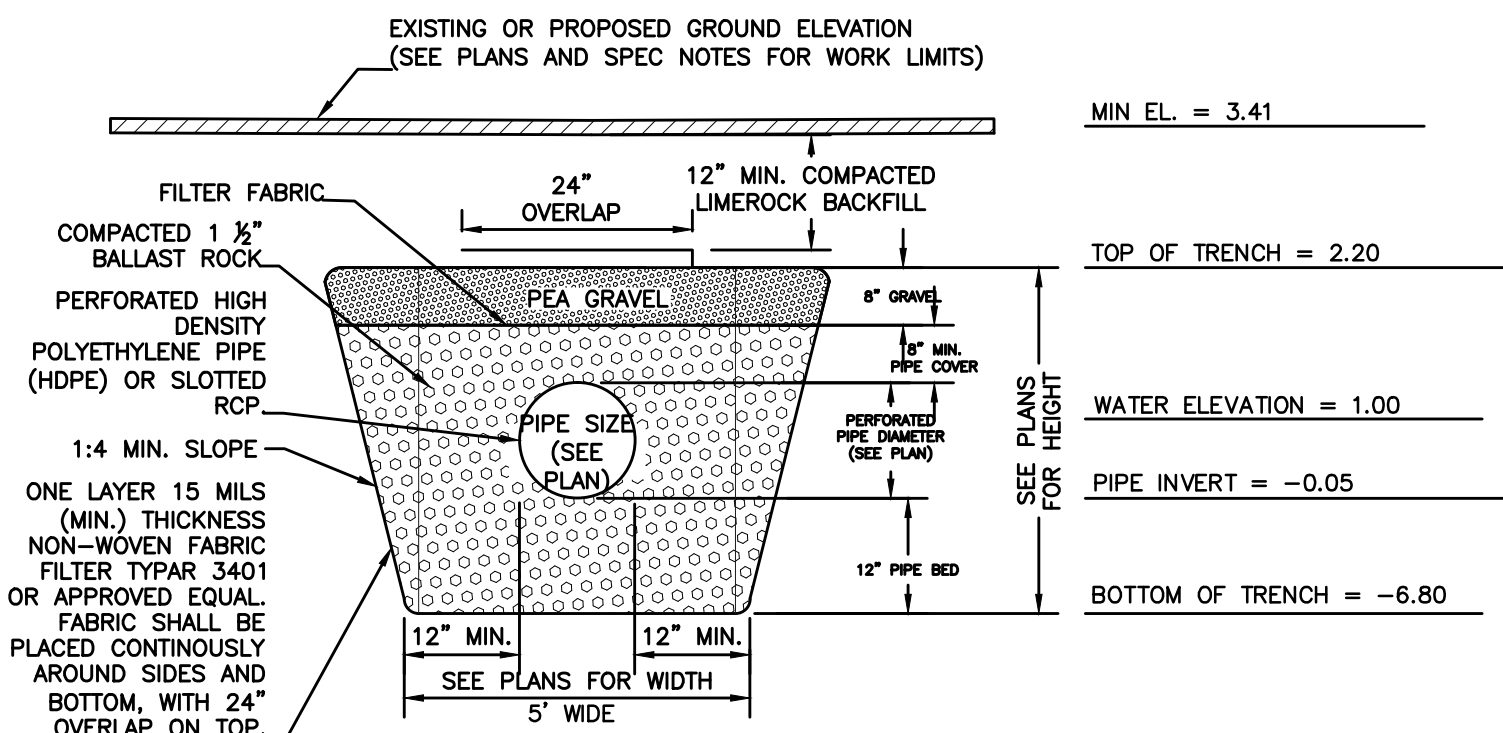


ASPHALT TAPER DETAIL - D101
NOT TO SCALE

FTL



LONGITUDINAL CROSS SECTION



TRANSVERSE CROSS SECTION

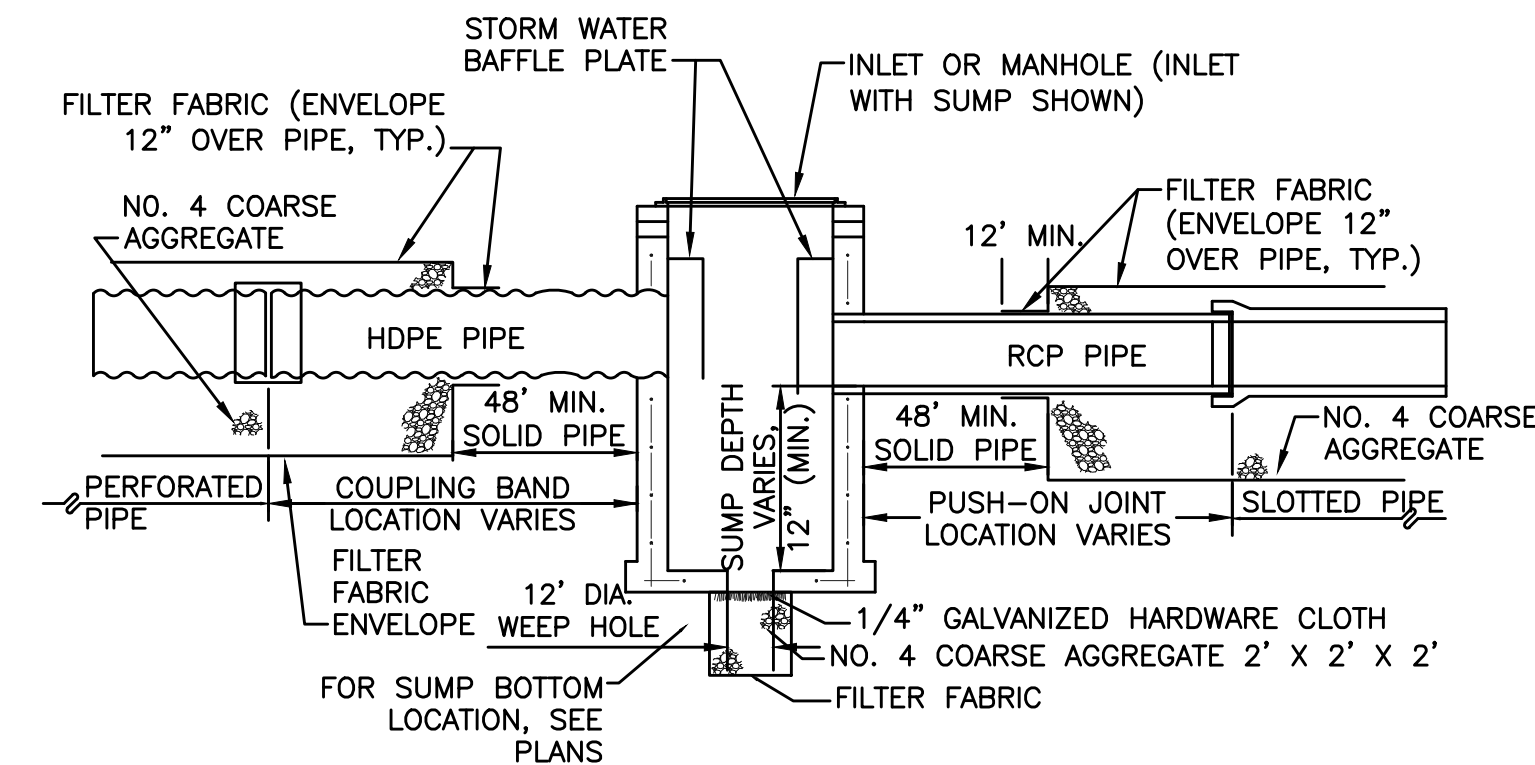
- NOTES:
1. CONTRACTOR MUST READ AND ABIDE THE CITY'S GENERAL CONSTRUCTION NOTES AND DRAINAGE DESIGN NOTES PRIOR TO STARTING CONSTRUCTION.
2. THE STANDARD CROSS SECTION SHALL BE CONSTRUCTED UNLESS OTHER SECTIONS ARE DESCRIBED OR DETAILED ON PLANS.
3. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PREVENT CONTAMINATION OF THE TRENCH WITH SAND, SILT AND FOREIGN MATERIALS.
4. THE 12" WEEP HOLE SHALL NOT BE USED IF THE BOTTOM OF THE INLET OR MANHOLE IS BELOW THE NORMAL WATER TABLE, UNLESS OTHERWISE SHOWN ON PLANS.
5. FRENCH DRAINS MUST BE INSPECTED BY THE ENGINEERING INSPECTOR PRIOR TO CONTRACTOR BACKFILLING.

EXFILTRATION TRENCH SYSTEM - D620
NOT TO SCALE

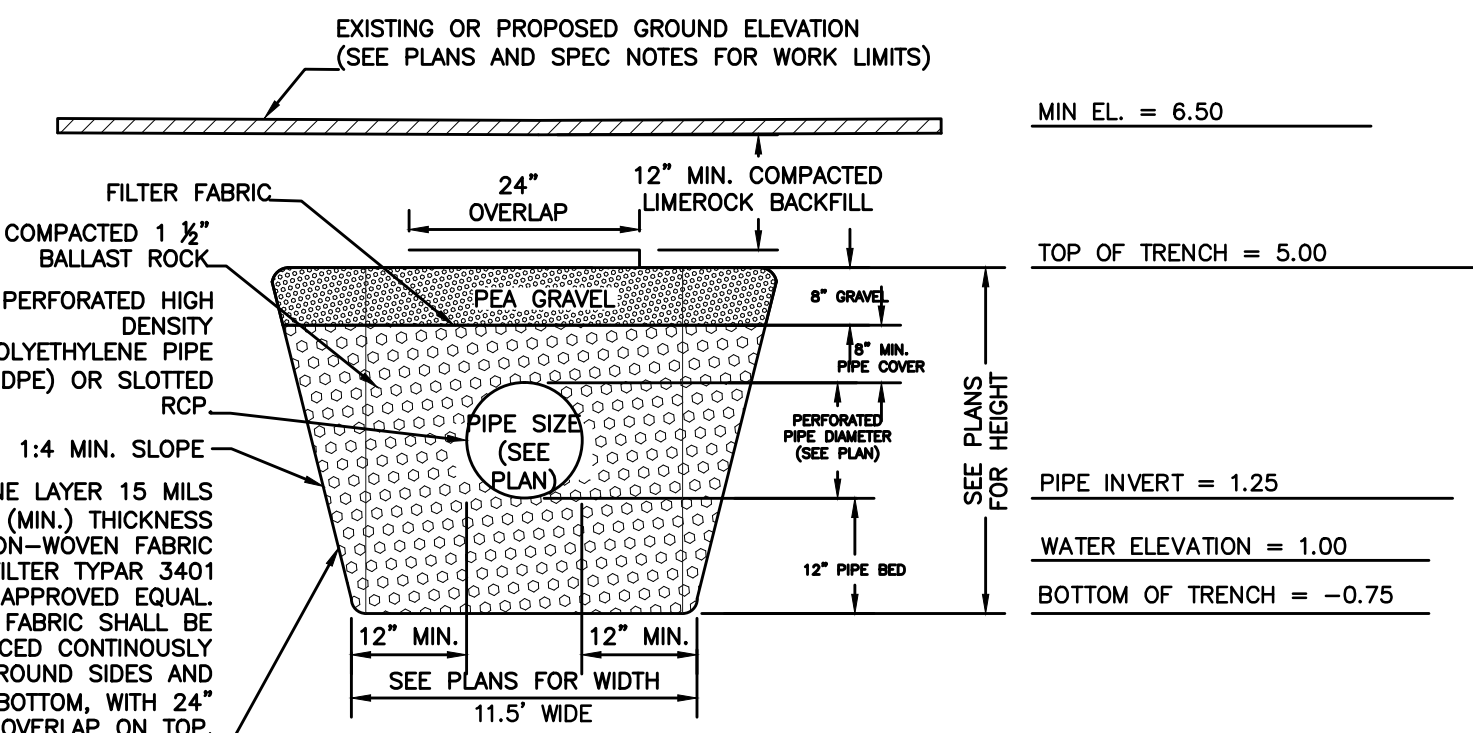
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FTL

CITY OF FORT LAUDERDALE
STANDARD DETAIL



LONGITUDINAL CROSS SECTION



TRANSVERSE CROSS SECTION

- NOTES:
1. CONTRACTOR MUST READ AND ABIDE THE CITY'S GENERAL CONSTRUCTION NOTES AND DRAINAGE DESIGN NOTES PRIOR TO STARTING CONSTRUCTION.
2. THE STANDARD CROSS SECTION SHALL BE CONSTRUCTED UNLESS OTHER SECTIONS ARE DESCRIBED OR DETAILED ON PLANS.
3. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PREVENT CONTAMINATION OF THE TRENCH WITH SAND, SILT AND FOREIGN MATERIALS.
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5. FRENCH DRAINS MUST BE INSPECTED BY THE ENGINEERING INSPECTOR PRIOR TO CONTRACTOR BACKFILLING.

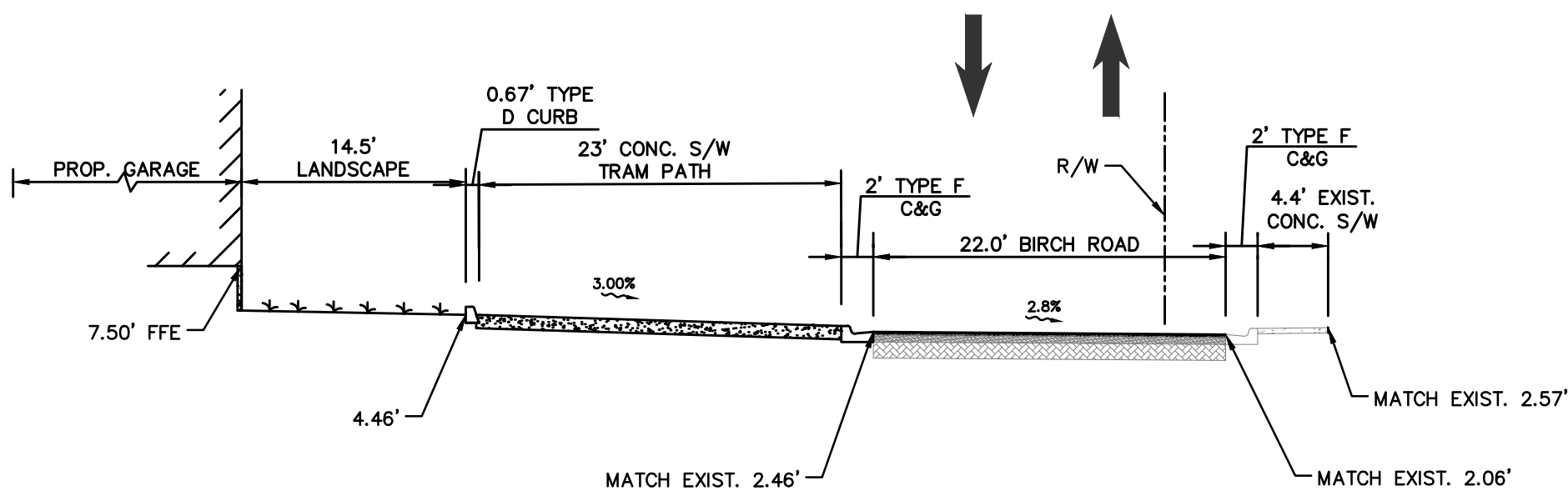
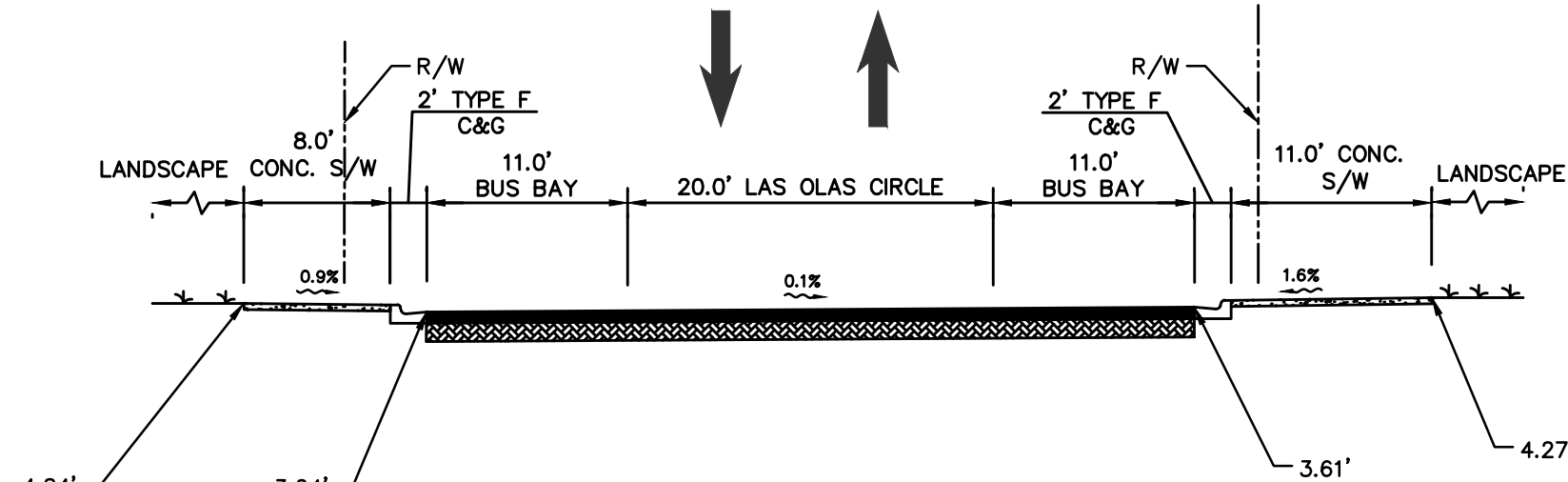
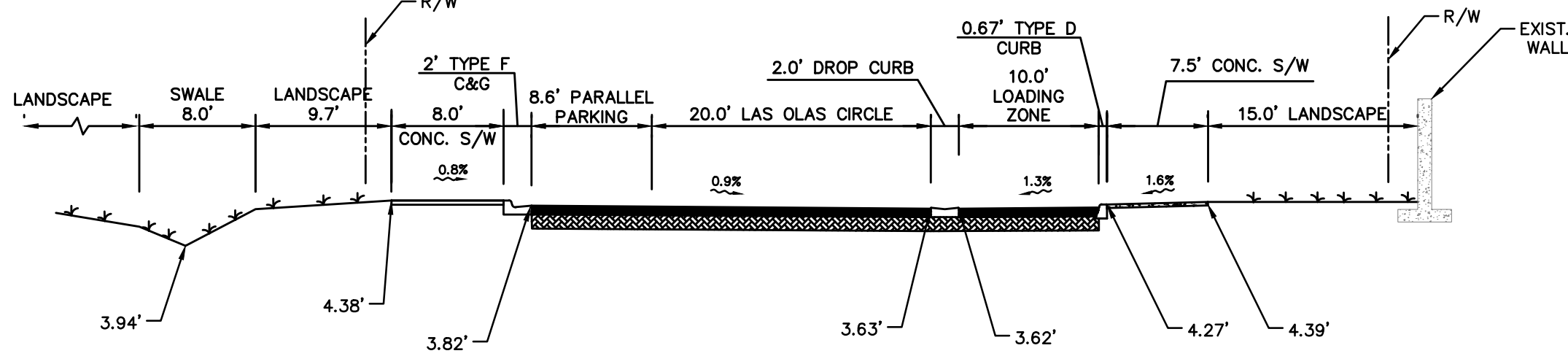
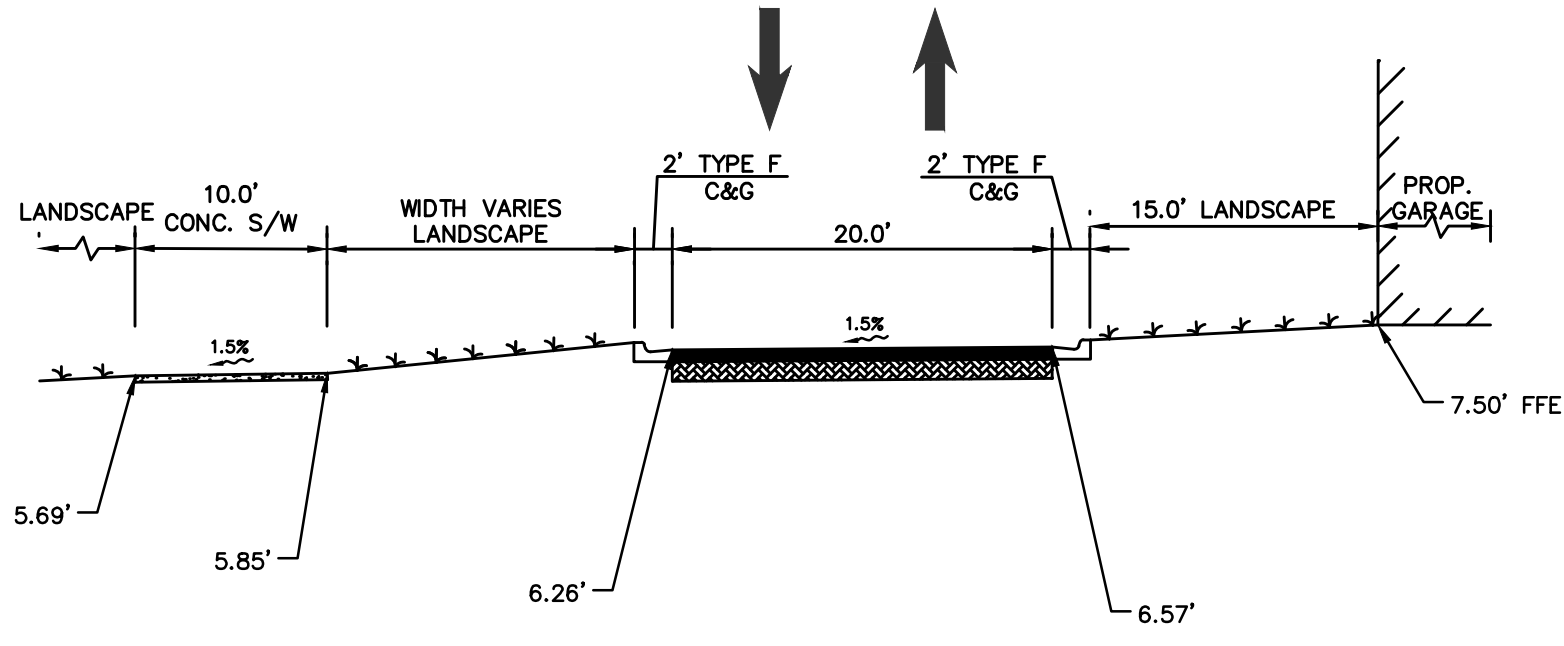
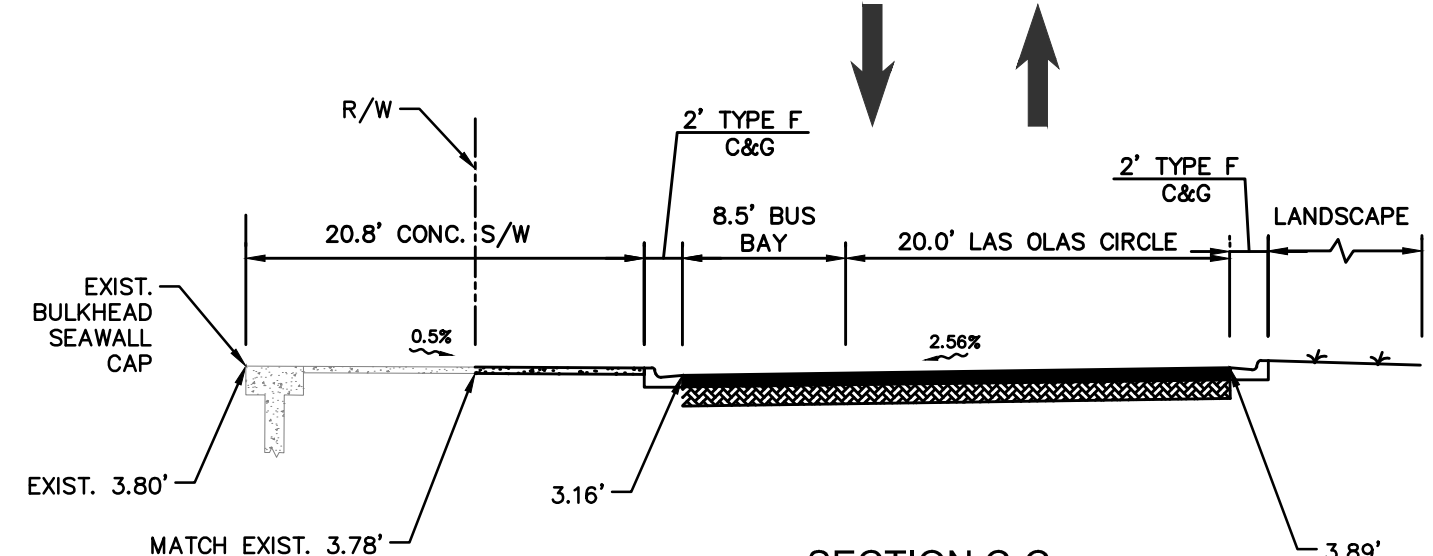
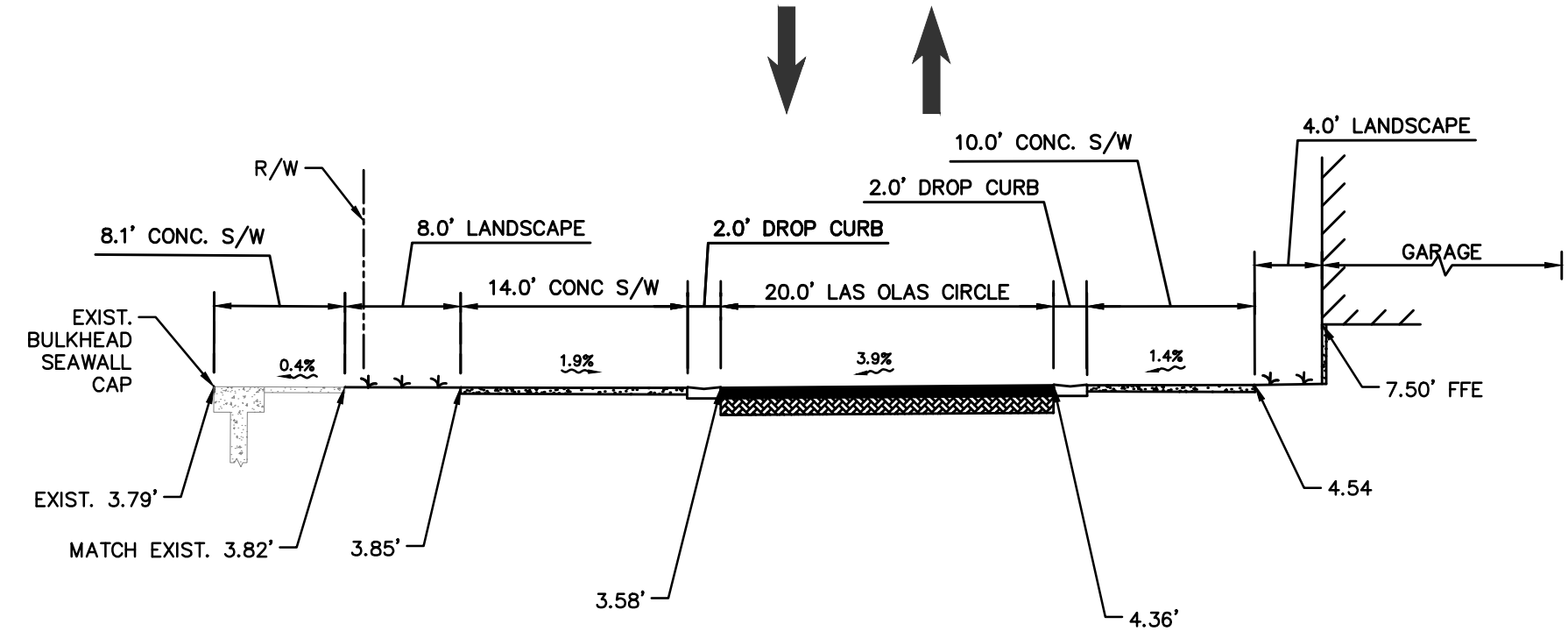
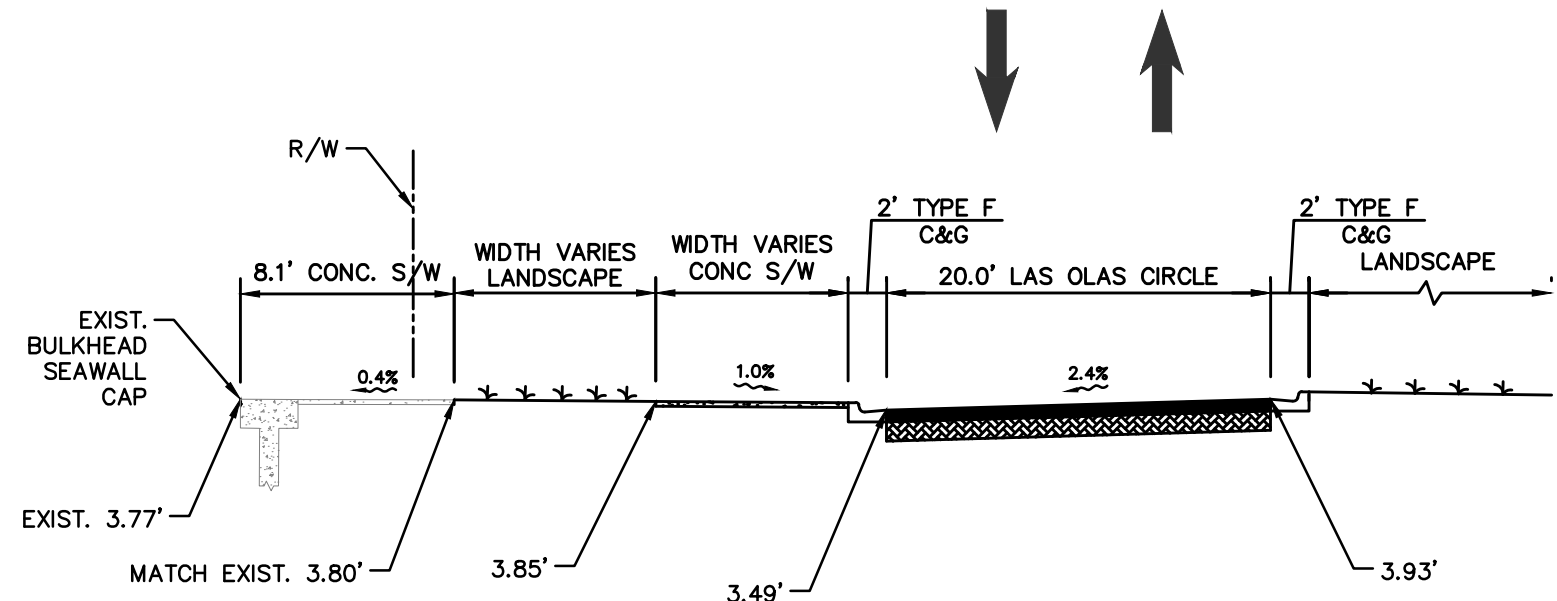
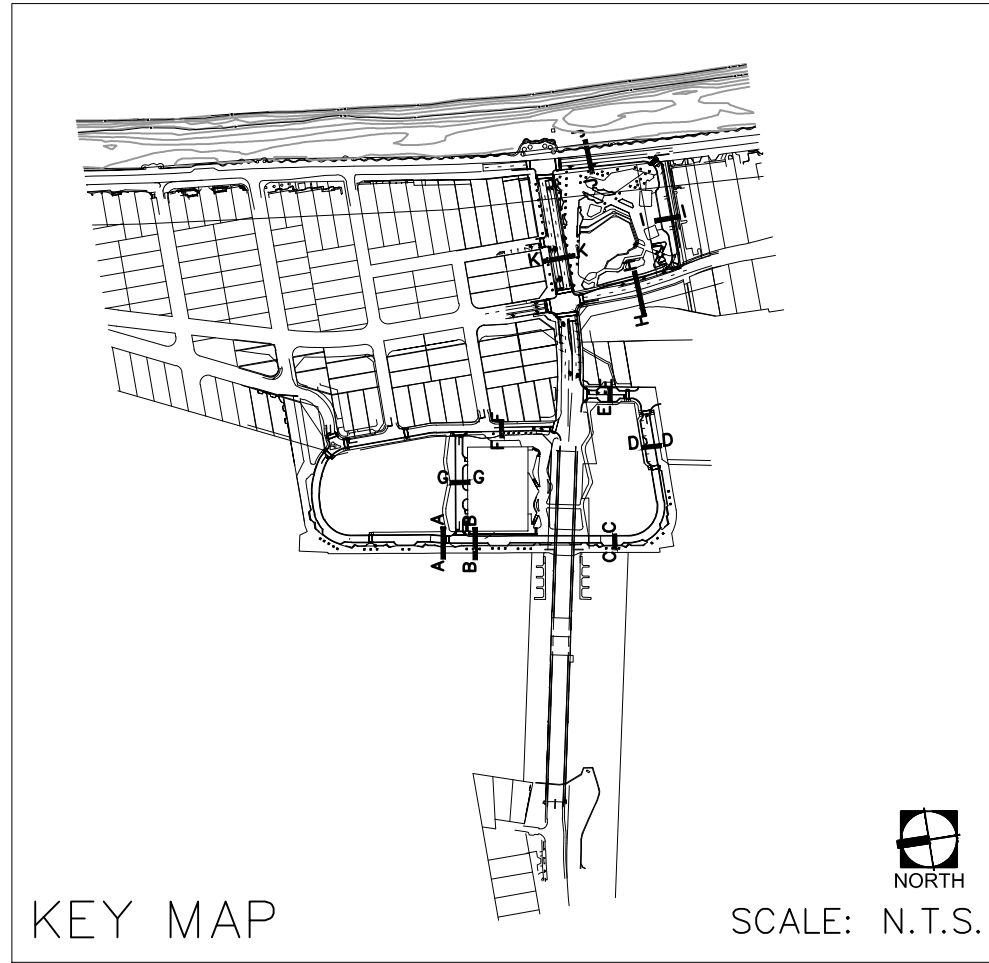
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NOT TO SCALE

(PARKING GARAGE PERMIT SET - DRY EXFILTRATION TRENCH NORTH OF LAS OLAS BRIDGE)

FTL

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STANDARD DETAIL

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Phone: 954.355.2345 Fax: 954.355.2345
WWW.KIMLEY-HORN.COM CA 00000995
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SEAL:

JASON A. WEBBER, P.E.
73962

KHA PROJ #: 040814003

DATE: 06/28/2017
DRAWN BY: JJ
DESIGNED BY: JJ
CHECKED BY: JAW
FIELD BOOK:
AS SHOWN

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

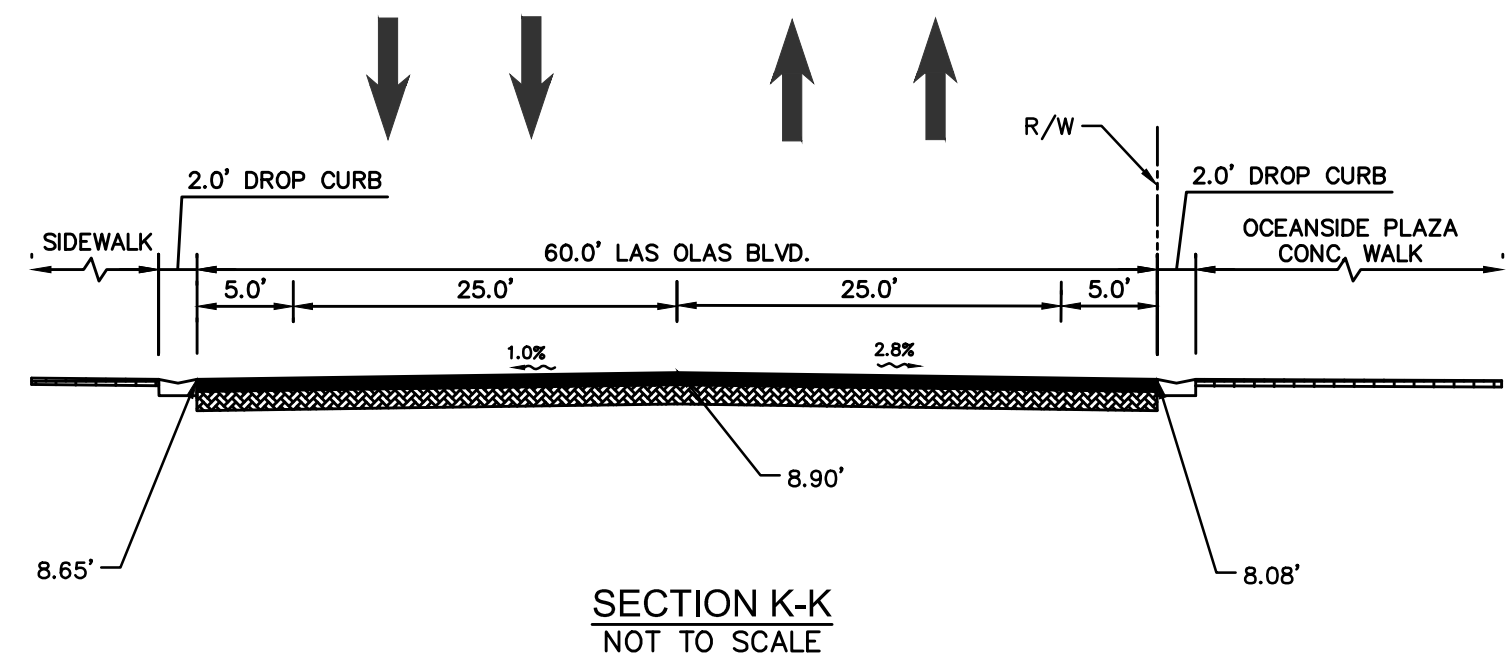
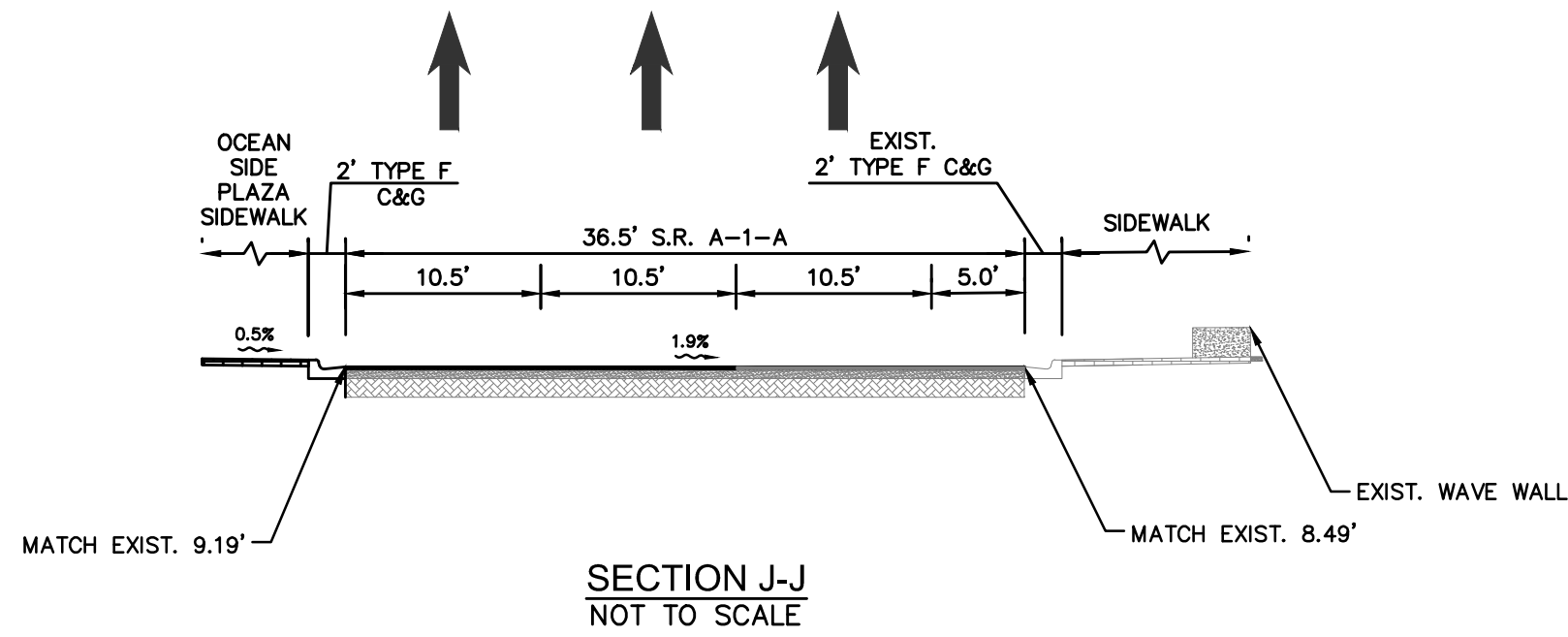
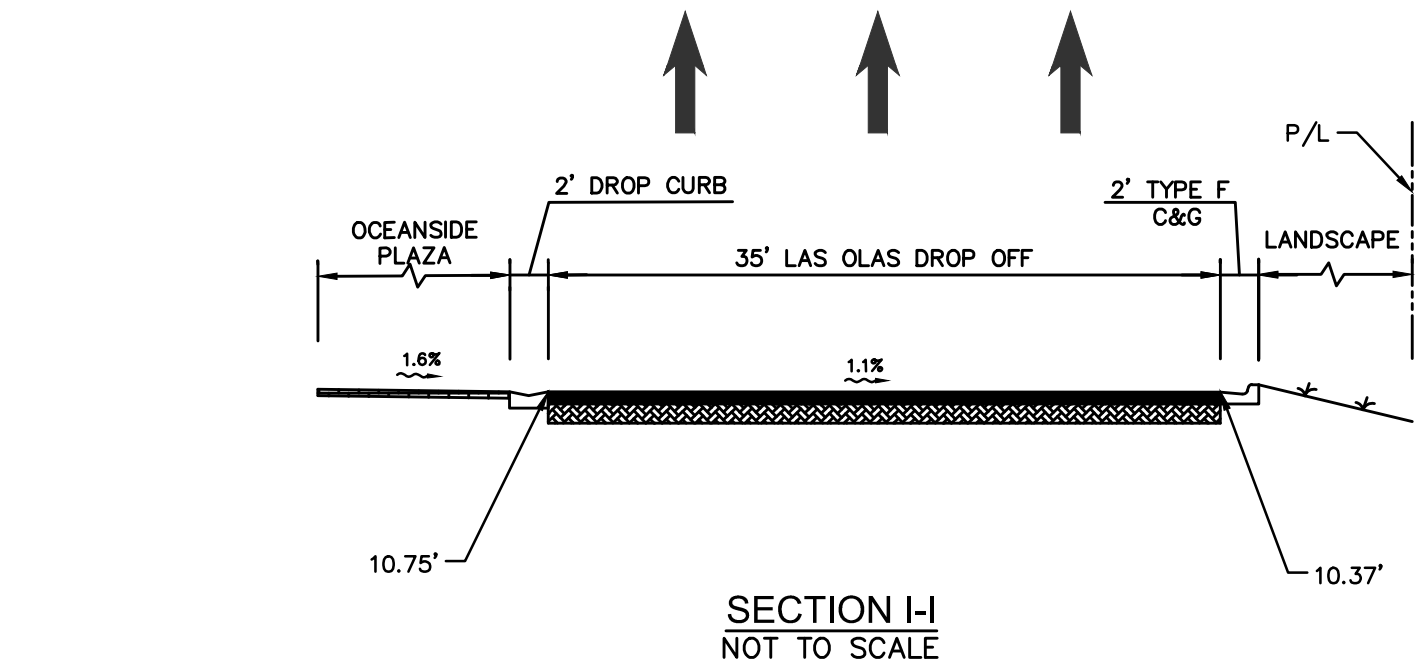
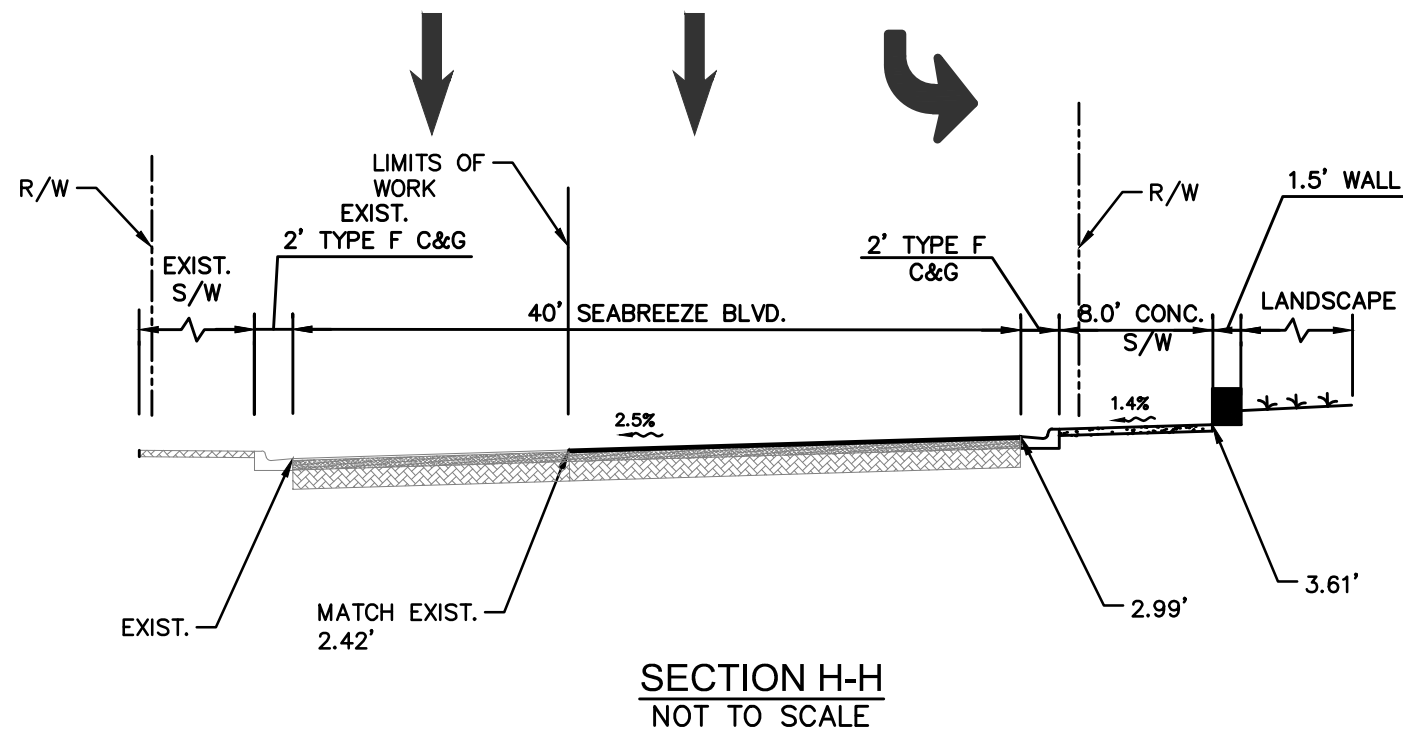
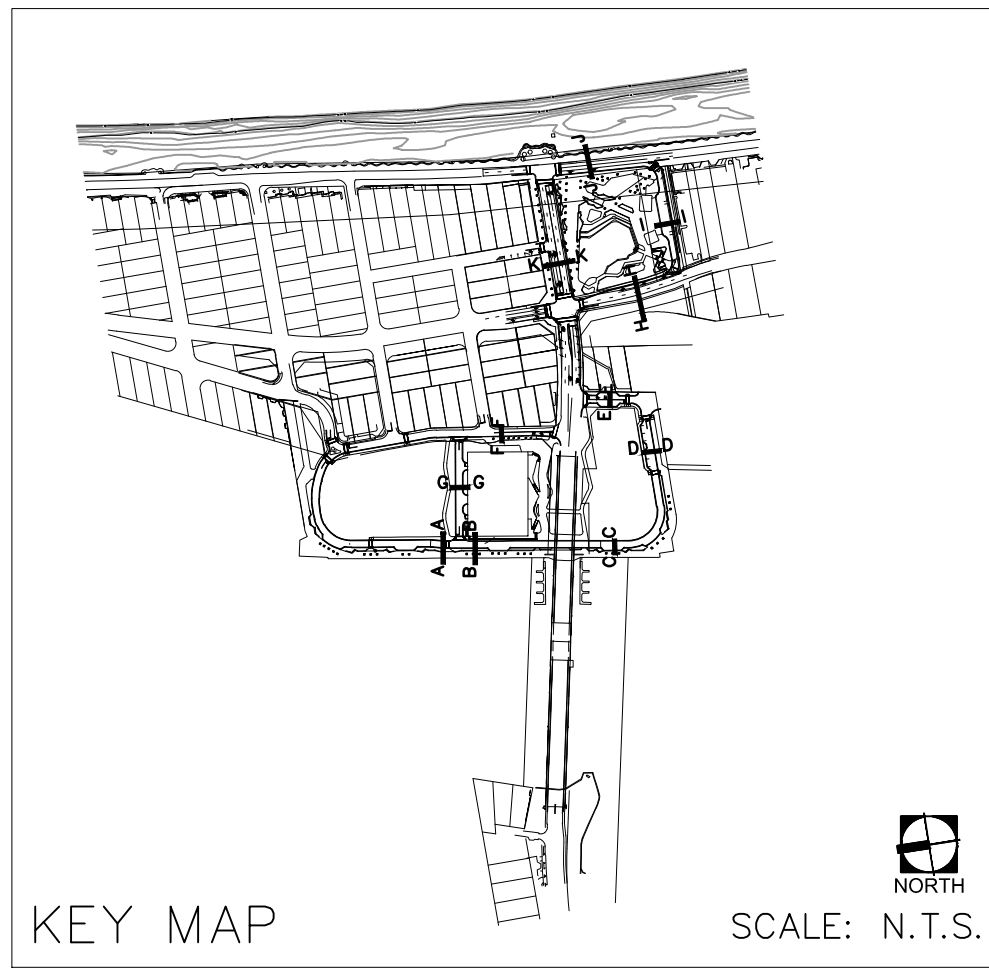
REVISIONS
NO. DATE BY CHK'D DESCRIPTION
1. 01/12/18 KHA KHA PERMIT COMMENTS C

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL
PROPOSED CROSS SECTIONS

SHEET NO.
C5-4.04

CAM #18-0242
Exhibit 1
Page 26 of 36

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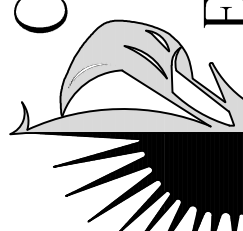
SEAL:

JASON A. WEBBER, P.E.
73962

KHA PROJ #: 040814003

DATE: 06/28/2017	SCALE: AS SHOWN	FIELD BOOK:
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CHECKED BY: JAW		

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

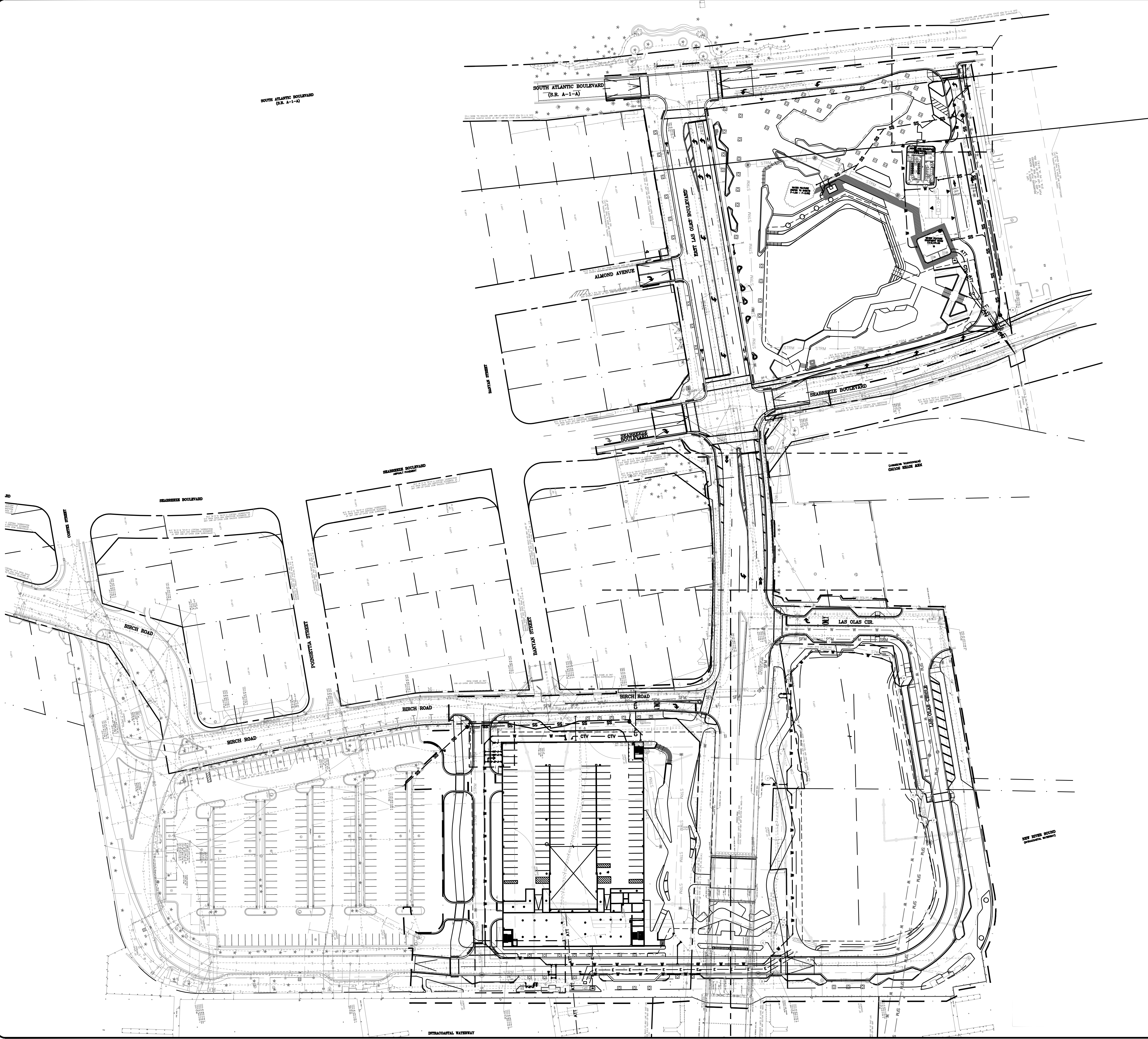


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REVISIONS		NO.	DATE	BY	CHK'D	DESCRIPTION
		1	01/12/18	KHA	KHA	PERMIT COMMENTS C

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL
PROPOSED CROSS SECTIONS

SHEET NO.
C5-4.05



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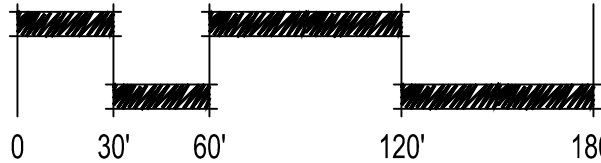
---	RIGHT-OF-WAY
W W W W	PROPOSED WATER MAIN
F F F F	PROPOSED FIRE MAIN
STRM STRM STRM	PROPOSED STORM PIPE
SS SS SS SS	PROPOSED GRAVITY SEWER MAIN
E E E E E E	PROPOSED ELECTRIC
I I I I I I	PROPOSED IRRIGATION
---	EXISTING WATER MAIN
---	EXISTING GRAVITY SEWER MAIN
---	EXISTING STORM PIPE
---	EXISTING SEWER FORCE MAIN
---	EXISTING ELECTRIC
---	WATER FEATURE MECHANICAL PIPING (REFER TO SHEET F1.01)

UTILITY NOTES:

1. ALL WATER MAIN (WM) 4"-12" SHALL BE PVC C-900 UNLESS OTHERWISE NOTED.
2. ALL WATER MAIN (WM) 16" AND LARGER SHALL BE DIP UNLESS OTHERWISE NOTED.
3. ALL WATER SERVICE LINES SHALL BE MINIMUM 2"-SDR9 PE UNLESS OTHERWISE NOTED.
4. ALL FIRE MAIN (F) SHALL BE DIP CLASS 200 UNLESS OTHERWISE NOTED.
5. ALL DUCTILE IRON PIPE (DIP) SHALL BE CLASS 350 UNLESS OTHERWISE NOTED. ALL DIP SHALL BE MARKED PER FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) STANDARDS.
6. ALL WATER MAIN SHALL HAVE A MINIMUM 36" COVER OVER THE TOP OF THE PIPE UNLESS OTHERWISE NOTED. WATER AND FIRE MAINS SHALL HAVE MIN. 6" VERTICAL SEPARATION FROM EACH OTHER.
7. ALL FITTINGS FOR WATER MAIN, FIRE MAIN, AND SEWER FORCE MAIN SHALL BE DUCTILE IRON MECHANICAL JOINT FITTINGS UNLESS OTHERWISE NOTED.
8. PIPE DEFLECTION OF WATER MAIN, FIRE MAIN, AND SEWER FORCE MAIN SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS.
9. ALL GRAVITY SEWER MAINS (SS) SHALL BE PVC SDR-26 UNLESS OTHERWISE NOTED. ALL GRAVITY SEWER LATERALS SHALL BE PVC SDR-35 UNLESS OTHERWISE NOTED.
10. CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING AND PROPOSED UTILITIES WHEN CONSTRUCTING NEW UTILITIES, INCLUDING SUPPORTING ELECTRICAL AND LIGHT POLES IF NEEDED..
11. CONTRACTOR SHALL FURNISH AND INSTALL NECESSARY PIPE AND FITTINGS TO TRANSITION PIPE MATERIALS WHEN REQUIRED AND TO CONNECT TO BUILDING PLUMBING.
12. ALL MANHOLES, VALVES, CLEANOUTS AND OTHER SUCH BOXES IN PAVEMENT OR SIDEWALKS SHALL BE SET FLUSH WITH PAVEMENT TO MATCH THE PROPOSED SLOPE AND SHALL BE H-20 TRAFFIC RATED.
13. THE GARAGE BUILDING FIRE LINE SHOWN IN THIS PLANS IS BEING SHOWN FOR COORDINATION PURPOSES ONLY. KIMLEY-HORN IS ONLY RESPONSIBLE FOR THE DESIGN OF THE WATER MAIN UP TO THE POINT OF SERVICE NOTED ON THE PLANS. SEE PLANS BY FIRE LINE DESIGNER FOR DETAILS OF THE BUILDING FIRE LINE BEYOND THE POINT OF SERVICE



SCALE: 1"=60'-0"



100% DOCUMENTS - FOR CONSTRUCTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

SHEET NO.
C6-1.00

OVERALL UTILITY PLAN

REVISIONS				DESCRIPTION	
NO.	DATE	BY	CHK'D	DESCRIPTION	
1	01/12/18	KHA	KHA	PERMIT COMMENTS C	

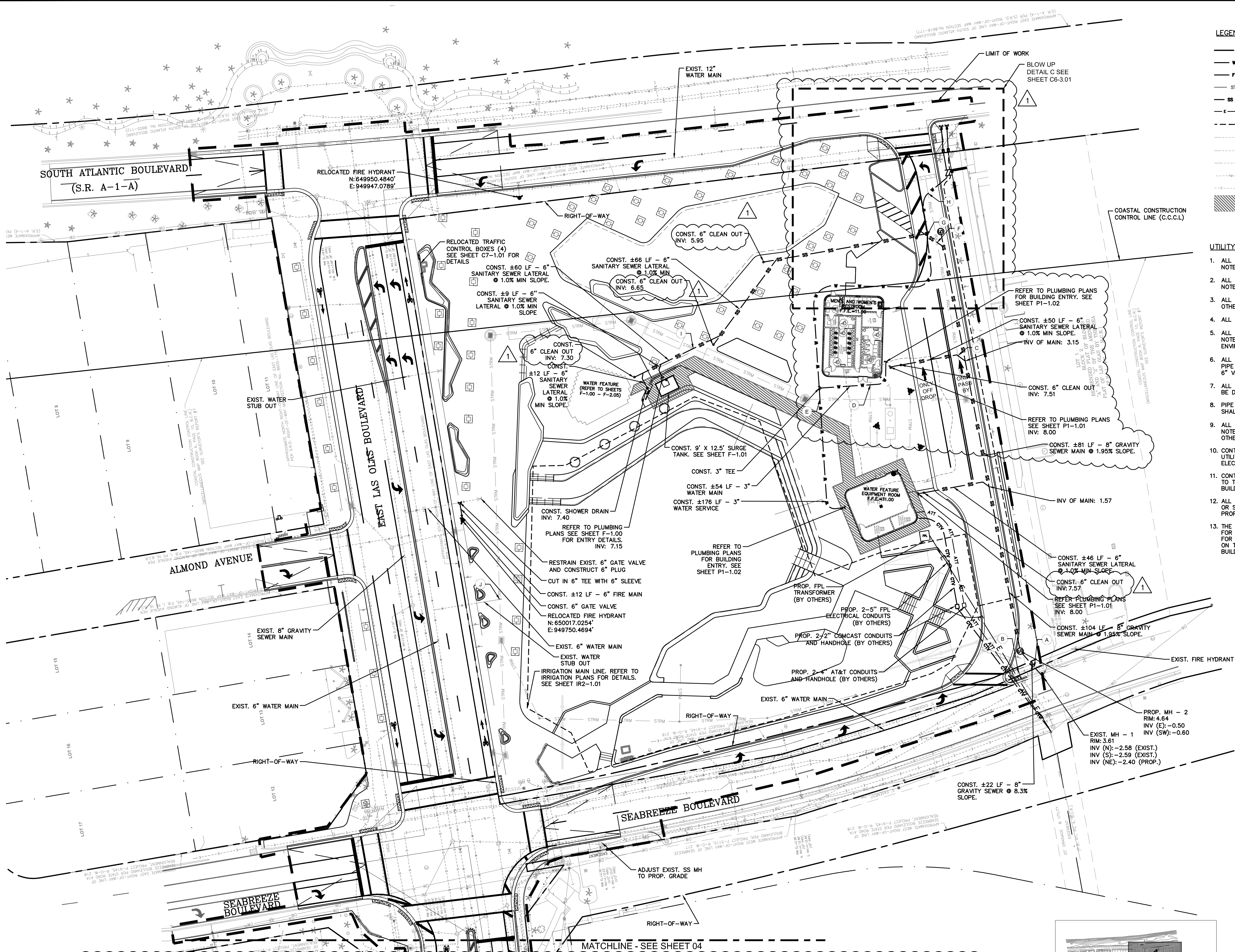
CITY OF FORT LAUDERDALE
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ENGINEERING & ARCHITECTURE

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954.524.3330

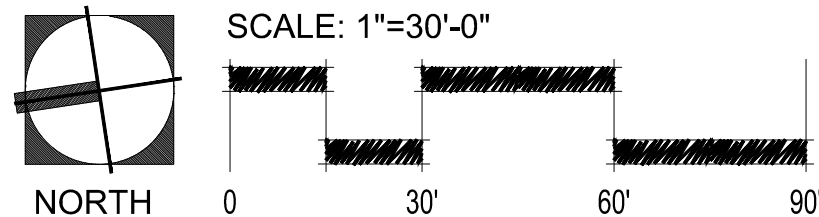
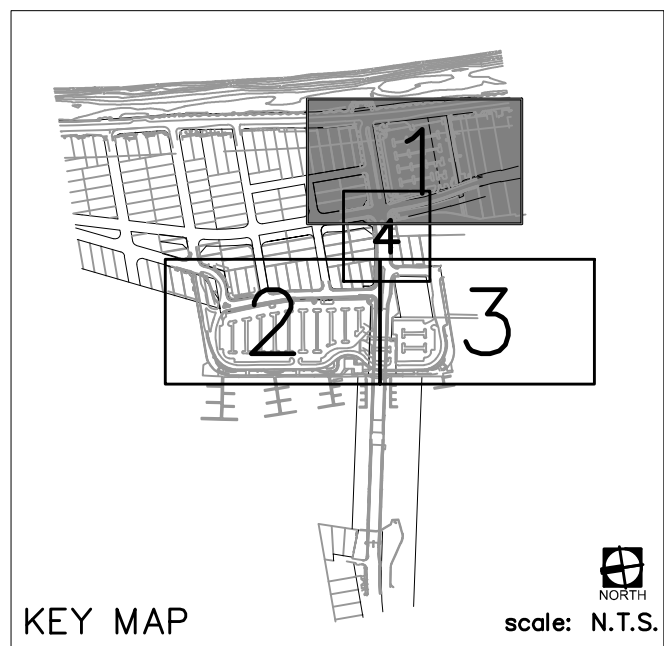
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73962
KHA PROJ # 040814003
DATE: 06/28/2017
DRAWN BY: JJ
DESIGNED BY: JJ
CHECKED BY: JAW
SCALE: AS SHOWN
FIELD BOOK:



UTILITY CROSSING TABLE:

A EXISTING 12" WATR TO CROSS OVER PROPOSED 8" PVC SSWR GRADE EL: 4.22' WATR BOT: 0.12' SSWR TOP: -1.13 CLEARANCE: 1.01'	B EXISTING 12" WATR TO CROSS OVER PROPOSED 15" HDPE STRM GRADE EL: 4.14' WATR BOT: 0.12' STRM TOP: -0.50' CLEARANCE: 0.62'	C PROPOSED 12" HDPE STRM TO CROSS OVER PROPOSED 6" PVC SSWR GRADE EL: 10.52' STRM BOT: 5.50' SSWR TOP: 4.23' CLEARANCE: 1.27'	D PROPOSED 3" PVC WATR TO CROSS OVER PROPOSED 2.5" PVC STRM GRADE EL: 11.00' WATR BOT: 7.71' STRM TOP: 6.22' CLEARANCE: 1.49'	E PROPOSED 3" PVC WATR TO CROSS OVER PROPOSED 18" HDPE STRM GRADE EL: 10.79' WATR BOT: 7.50' STRM TOP: 7.00' CLEARANCE: 0.90'
F PROPOSED 12" HDPE STRM TO CROSS OVER PROPOSED 6" PVC SSWR GRADE EL: 10.18' STRM BOT: 6.60' SSWR TOP: 5.23' CLEARANCE: 1.37'	G PROPOSED 3" PVC WATR TO CROSS OVER PROPOSED 6" PVC SSWR GRADE EL: 10.18' WATR BOT: 6.89' SSWR TOP: 5.35' CLEARANCE: 1.54'	H PROPOSED 3" PVC WATR TO CROSS OVER PROPOSED 12" HDPE STRM GRADE EL: 10.35' WATR BOT: 7.10' STRM TOP: 7.77' CLEARANCE: 0.67'	I PROPOSED 6" PVC SSWR TO CROSS OVER PROPOSED 24" HDPE STRM GRADE EL: 10.60' SSWR BOT: 6.85' STRM TOP: 5.43' CLEARANCE: 1.42'	J EXISTING 6" WATR TO CROSS OVER PROPOSED 24" HDPE STRM GRADE EL: 7.75' WATR BOT: 4.18' STRM TOP: 2.91' CLEARANCE: 1.27'



LEGEND:

---	RIGHT-OF-WAY
W W W W	PROPOSED WATER MAIN
F F F F	PROPOSED FIRE MAIN
STRM STRM STRM	PROPOSED STORM PIPE
SS SS SS SS	PROPOSED GRAVITY SEWER MAIN
E E E E E E	PROPOSED ELECTRIC
---	PROPOSED IRRIGATION
---	EXISTING WATER MAIN
---	EXISTING GRAVITY SEWER MAIN
---	EXISTING STORM PIPE
---	EXISTING SEWER FORCE MAIN
---	EXISTING ELECTRIC
---	WATER FEATURE MECHANICAL PIPING (REFER TO SHEET F1.01 FOR DETAILS)

UTILITY NOTES:

- ALL WATER MAIN (WM) 4"-12" SHALL BE PVC C-900 UNLESS OTHERWISE NOTED.
- ALL WATER MAIN (WM) 16" AND LARGER SHALL BE DIP UNLESS OTHERWISE NOTED.
- ALL WATER SERVICE LINES SHALL BE MINIMUM 2"-SDR9 PE UNLESS OTHERWISE NOTED.
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PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

SHEET NO.
C6-1.01

UTILITY PLAN

NO.	DATE	BY	CHK'D	DESCRIPTION
1	01/12/18	KHA	KHA	PERMIT COMMENTS C

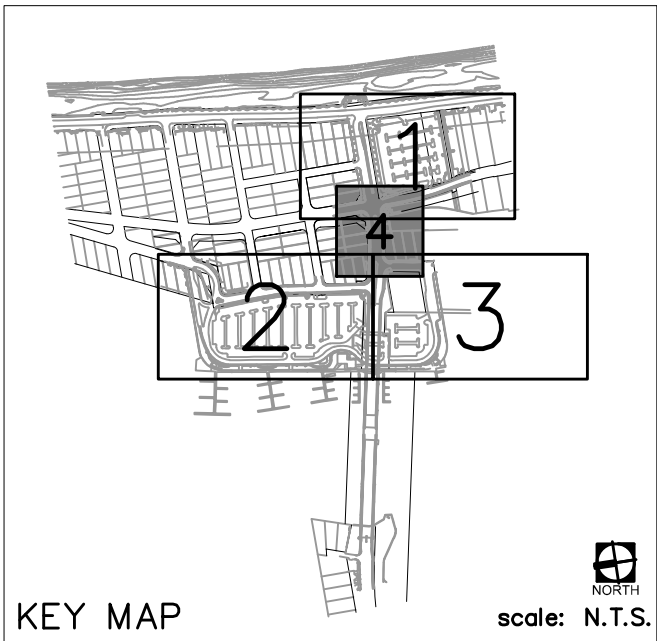
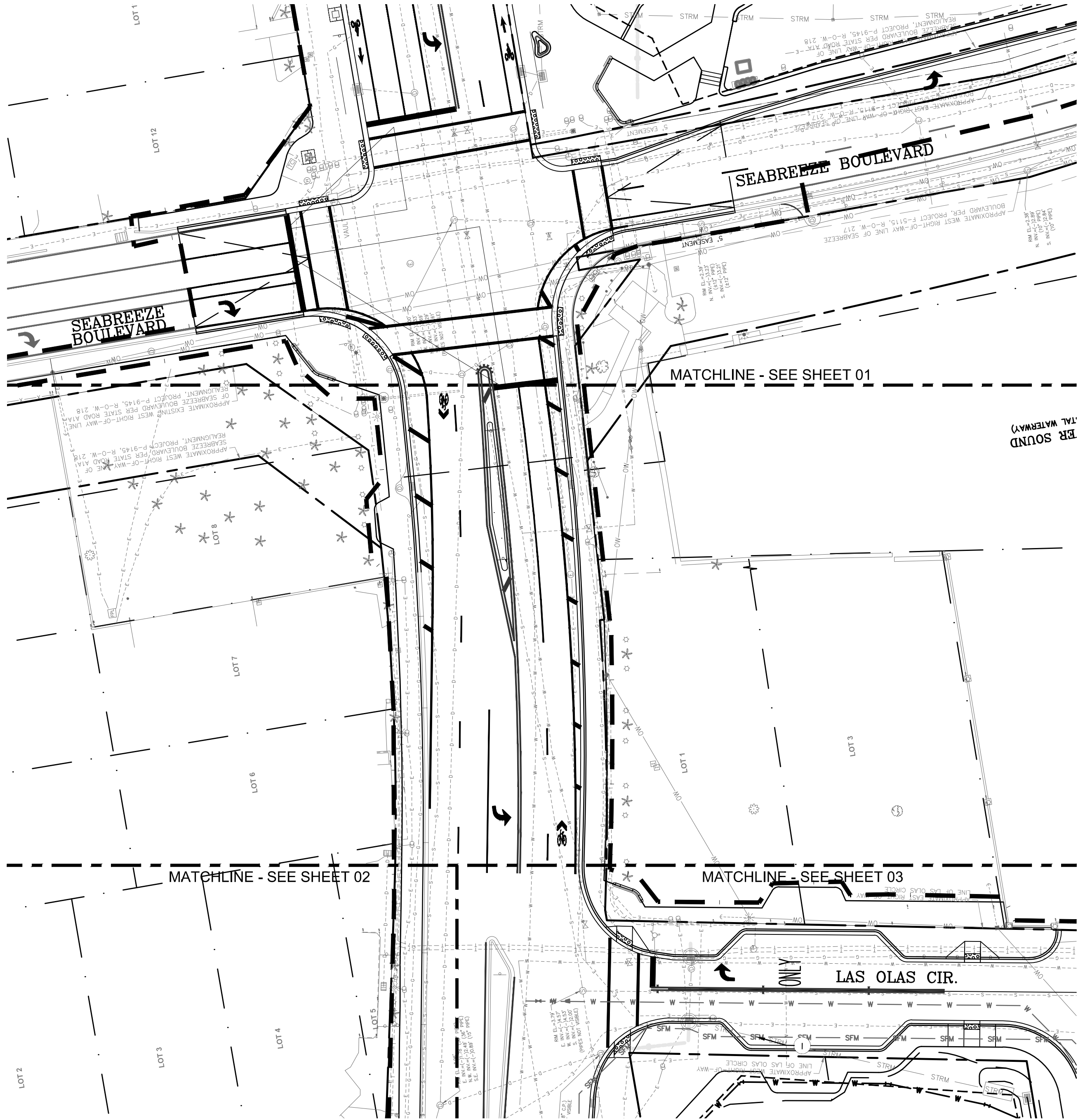
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

SEAL:
JASON A. WEBBER, P.E.
73962

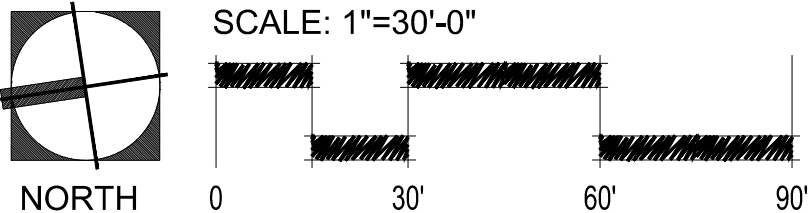
KHA PROJ # 040814003

DATE: 06/28/2017	SCALE: AS SHOWN
DRAWN BY: JJ	DESIGNED BY: JJ
CHECKED BY: JJ	FIELD BOOK:

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LEGEND:		RIGHT-OF-WAY
	W	PROPOSED WATER MAIN
	F	PROPOSED FIRE MAIN
	STRM	PROPOSED STORM PIPE
	SS	PROPOSED GRAVITY SEWER MAIN
	E	PROPOSED ELECTRIC
	I	PROPOSED IRRIGATION
	W	EXISTING WATER MAIN
	SS	EXISTING GRAVITY SEWER MAIN
	STRM	EXISTING STORM PIPE
	FM	EXISTING SEWER FORCE MAIN
	E	EXISTING ELECTRIC



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LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL
UTILITY PLAN

SHEET NO.
C6-1.04

REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION
1	01/12/18	KHA	KHA	PERMIT COMMENTS C

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ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

JASON A. WEBBER, P.E.
73962

KHA PROJ # 040814003

DATE:	06/28/2017	SCALE:	AS SHOWN
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73962

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DESIGNED BY: JJ	SCALE: AS SHOWN
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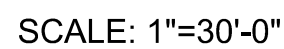
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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS					
NO.	DATE	BY	CHK'D	DESCRIPTION	
<u>1</u>	01/12/18	KHA	KHA	PERMIT COMMENTS C	

SHEET NO.	
C6-3.01	

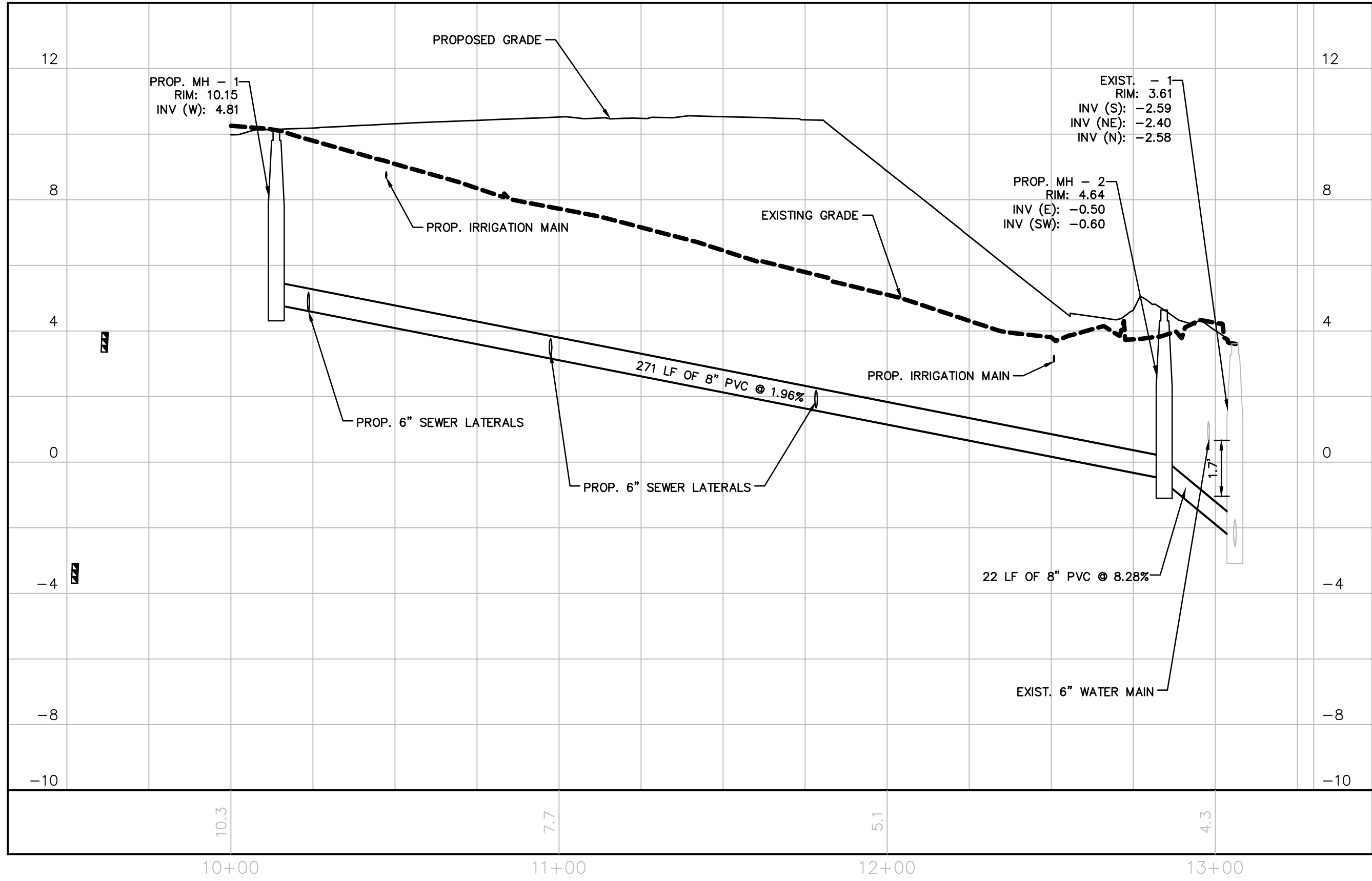


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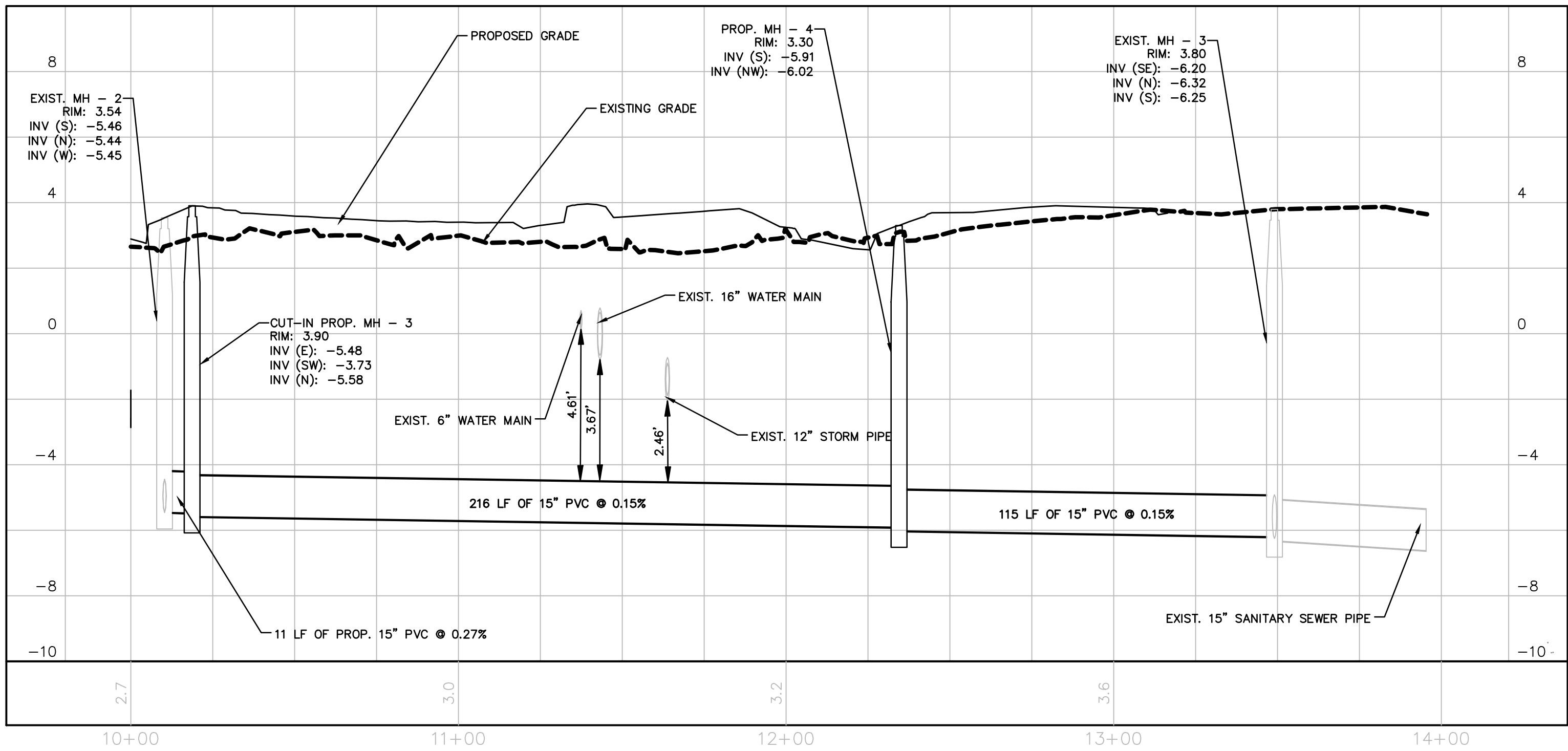
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SEWER PROFILE A-A
SEE UTILITY PLAN SHEET C6-1.01

(OCEANSIDE PLAZA, UNDER SEPARATE PACKAGE)



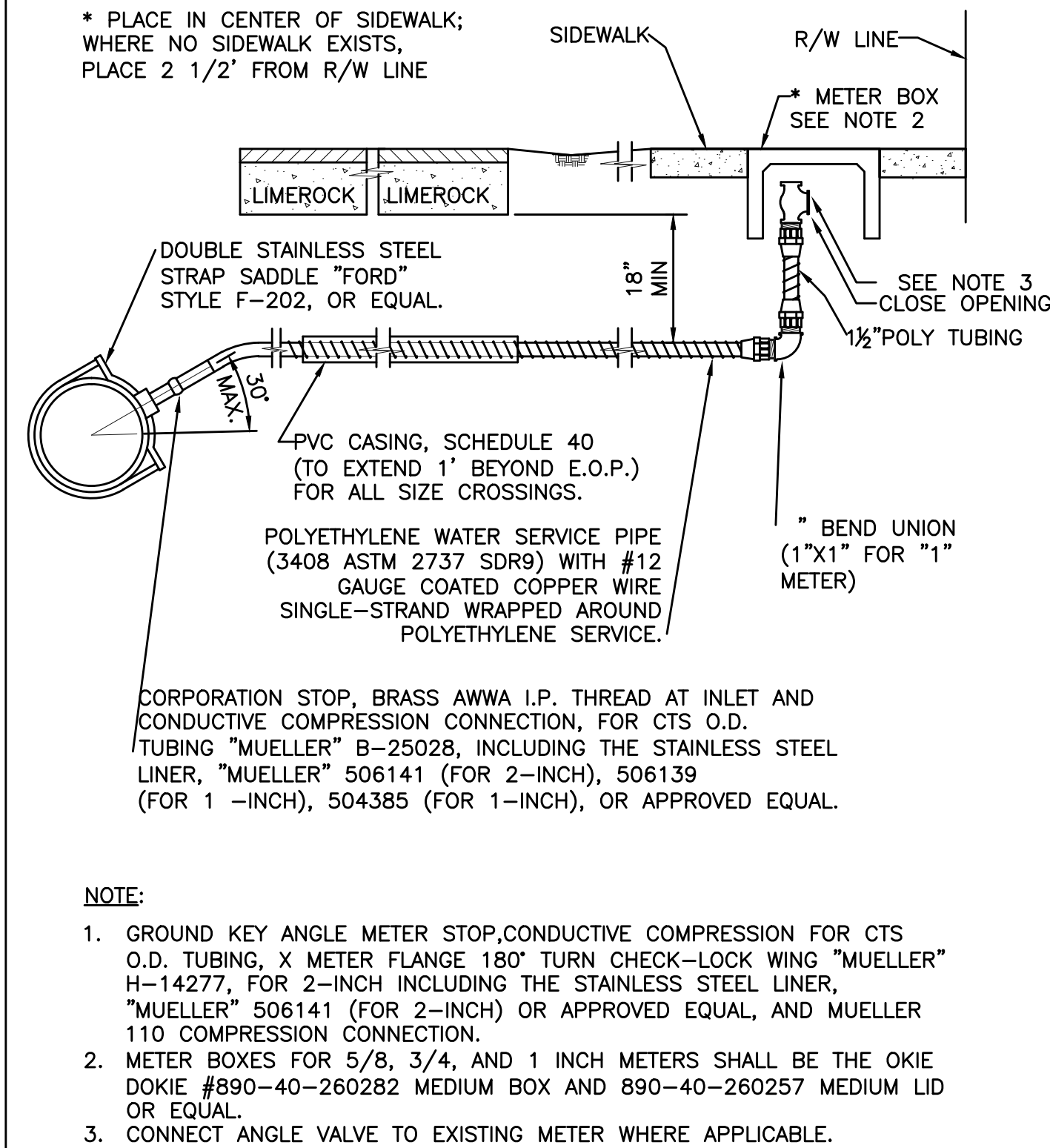
SEWER PROFILE B-B
SEE UTILITY PLAN SHEET C6-1.02

(PARKING GARAGE PERMIT SET)

NO.	DATE	BY	CHK'D	REVISIONS	
				DESCRIPTION	PERMIT COMMENTS
1	07/12/18	KHA	KHA		

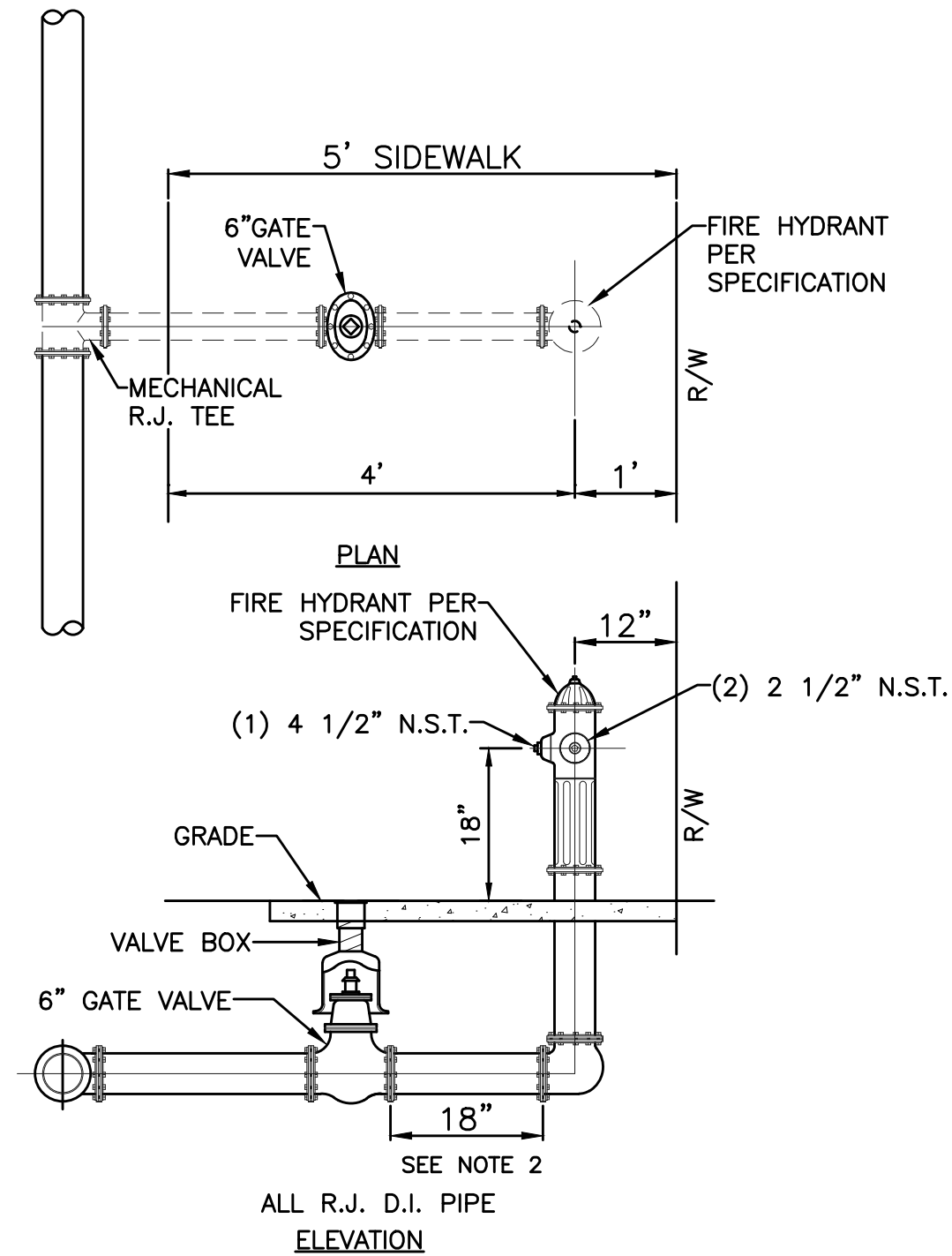
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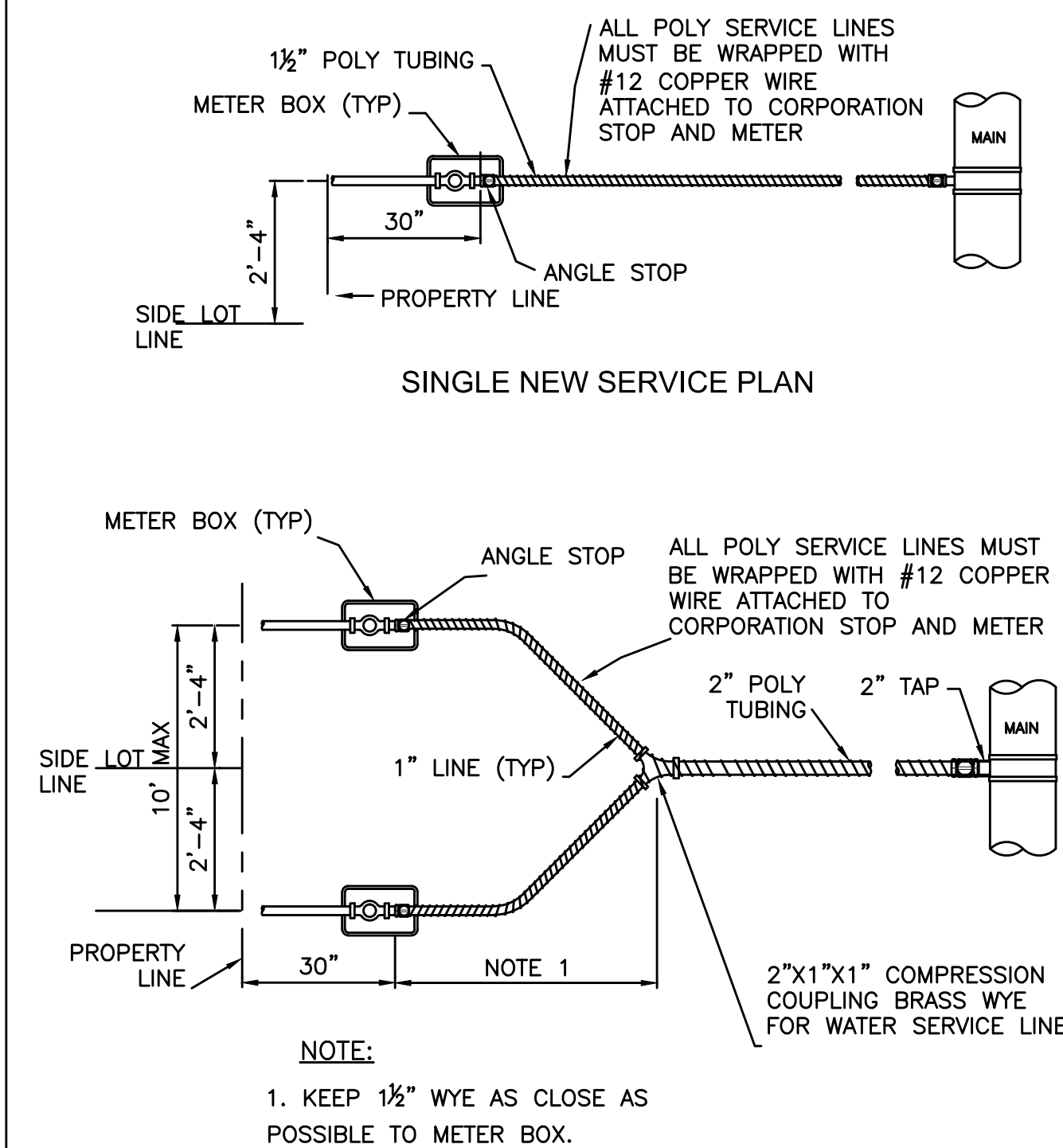
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NOT TO SCALE

FTL



TYPICAL NEW FIRE HYDRANT ASSEMBLY INSTALLATION - 302
NOT TO SCALE

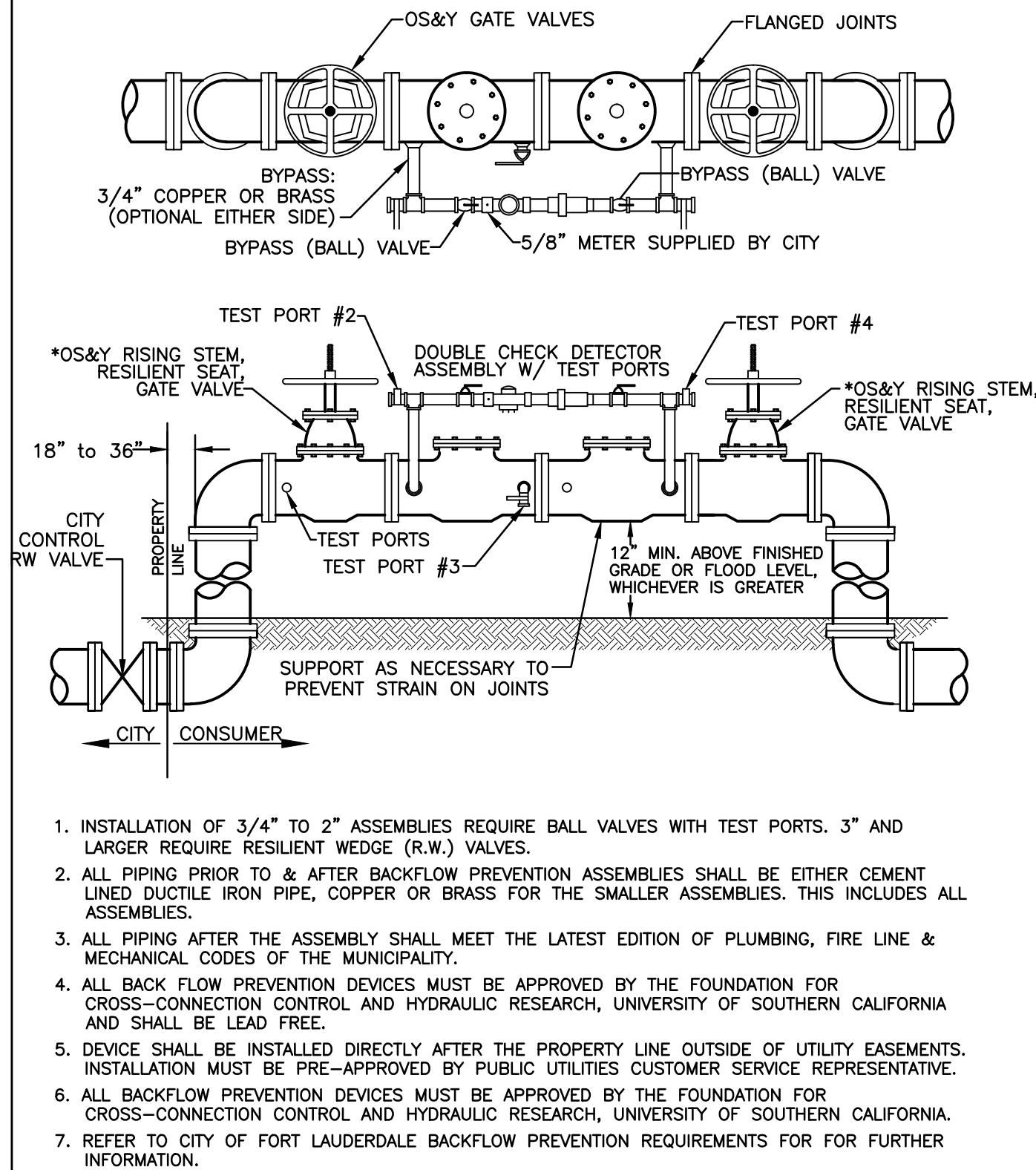
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DOUBLE NEW SERVICE PLAN

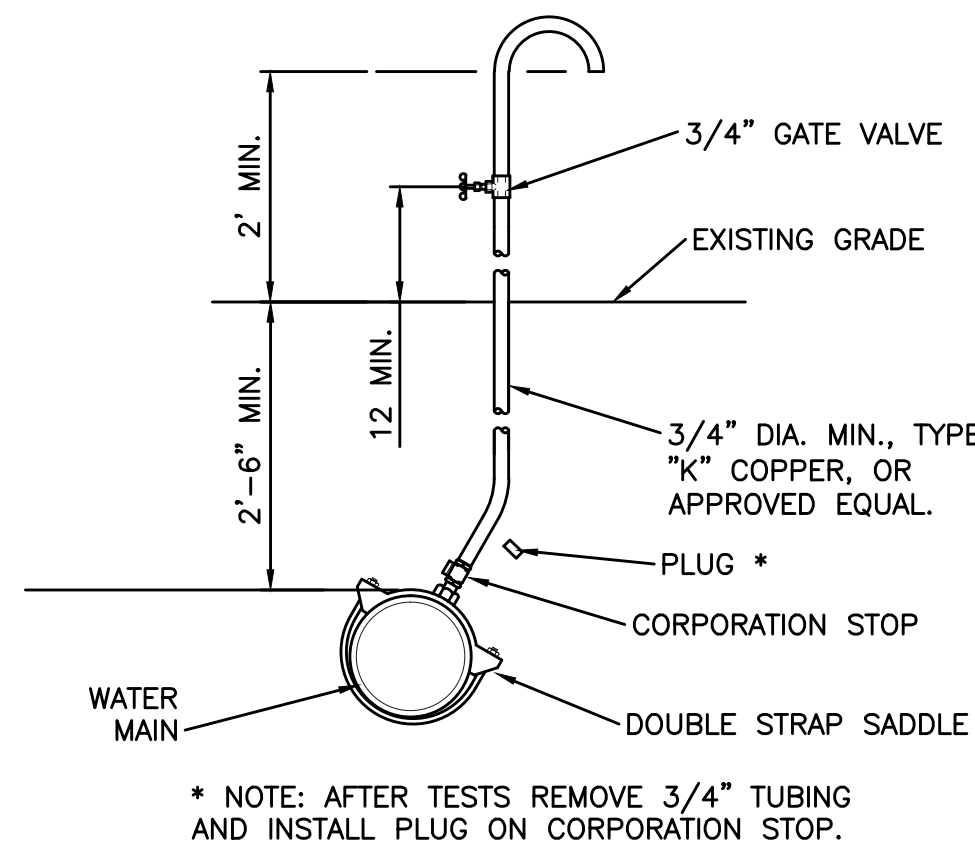
TYPICAL WATER SERVICE - 301
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FTL



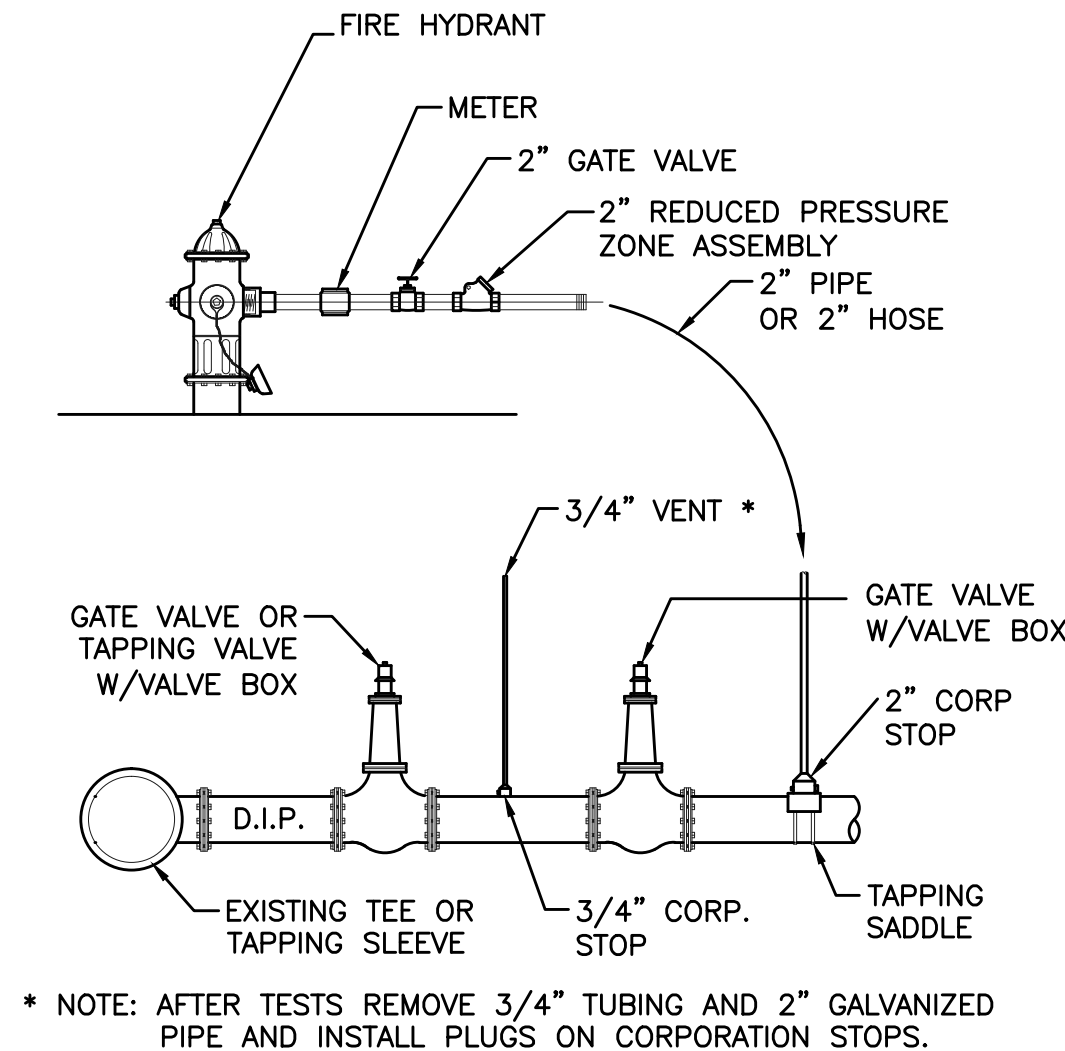
FIRE SERVICES - DOUBLE DETECTOR ASSEMBLY AND METER INSTALLATION
NOT TO SCALE

KHA



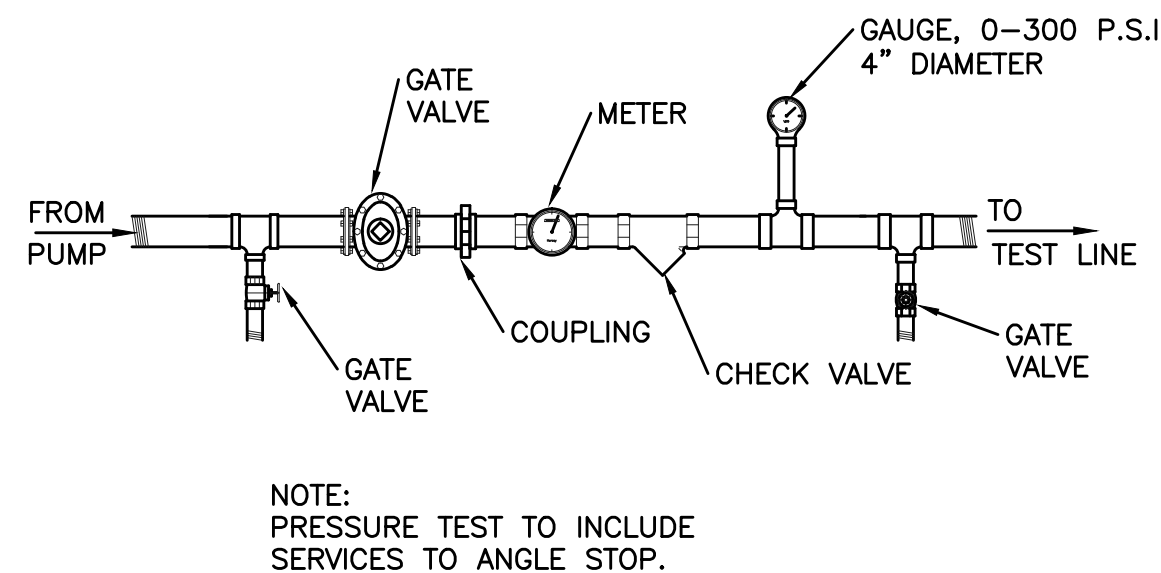
TYPICAL BACTERIOLOGICAL SAMPLING POINT AT INTERMEDIATE POINTS - 304
NOT TO SCALE

FTL



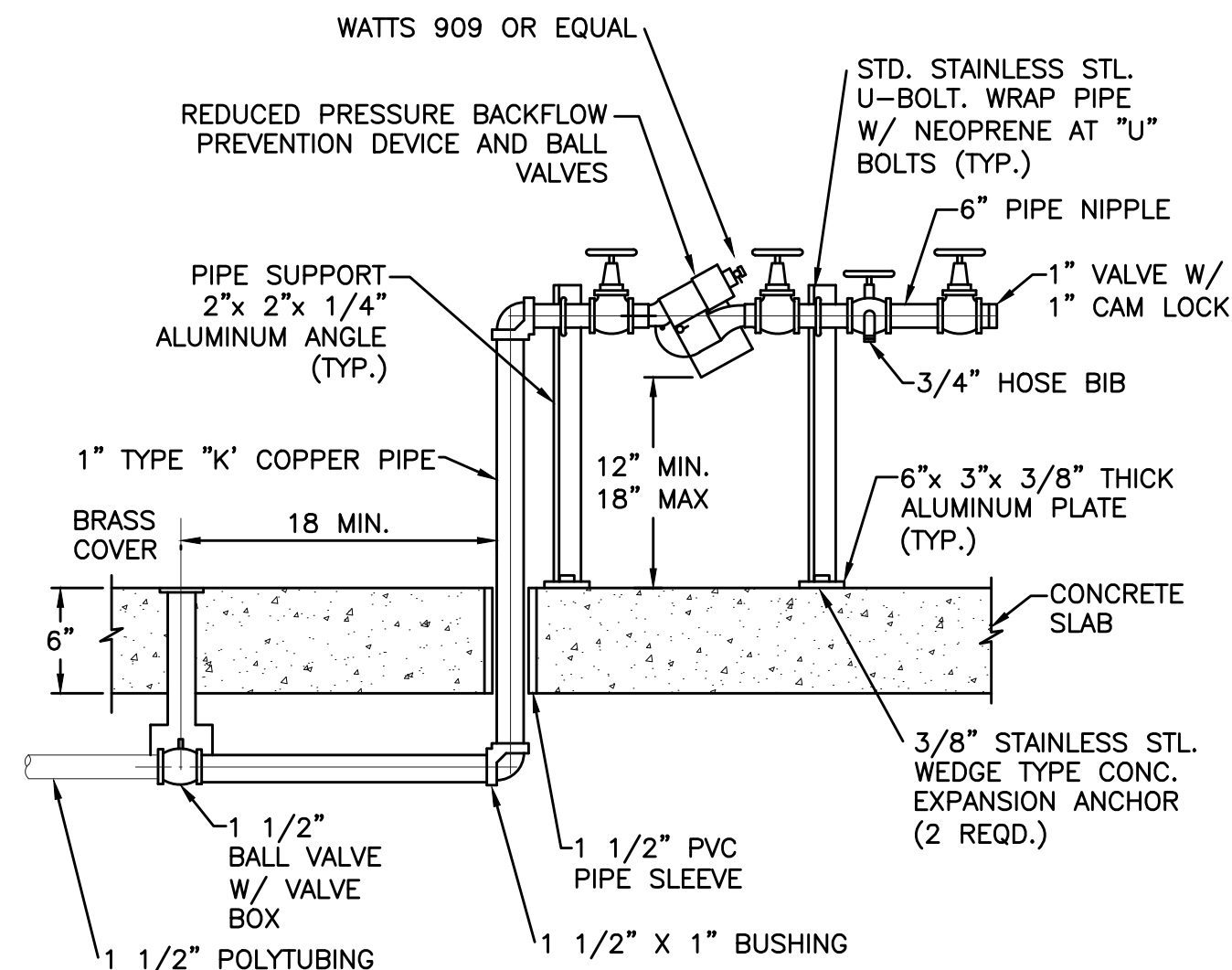
FILLING CONNECTION - 305
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FTL



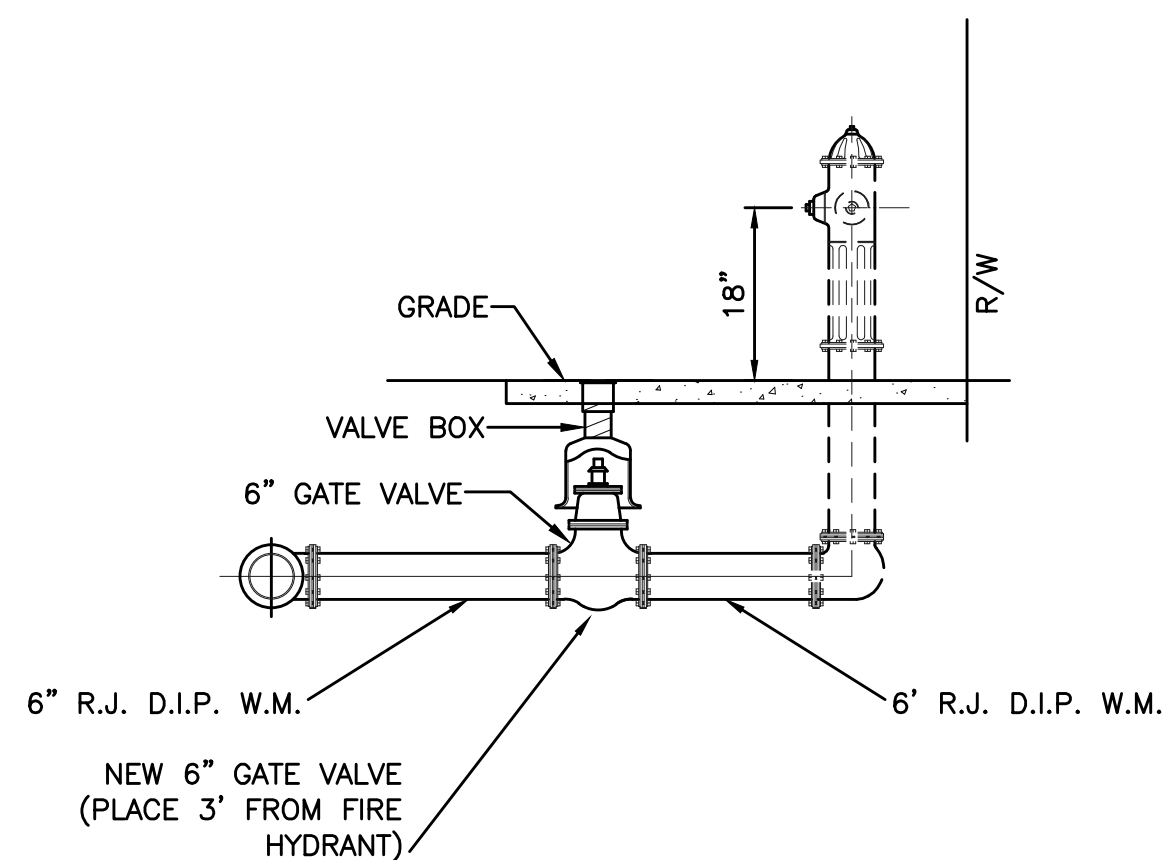
PRESSURE TEST DETAIL - 306
NOT TO SCALE

FTL



REDUCED PRESSURE BACKFLOW PREVENTER WITH HOSE CONNECTION
NOT TO SCALE

FTL



RELOCATE OR CONNECT EXISTING FIRE HYDRANT - 308
NOT TO SCALE

FTL

FTL

CITY OF FORT LAUDERDALE
STANDARD DETAIL

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KIMLEY-HORN AND
ASSOCIATES DETAIL

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ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL
UTILITY DETAILS

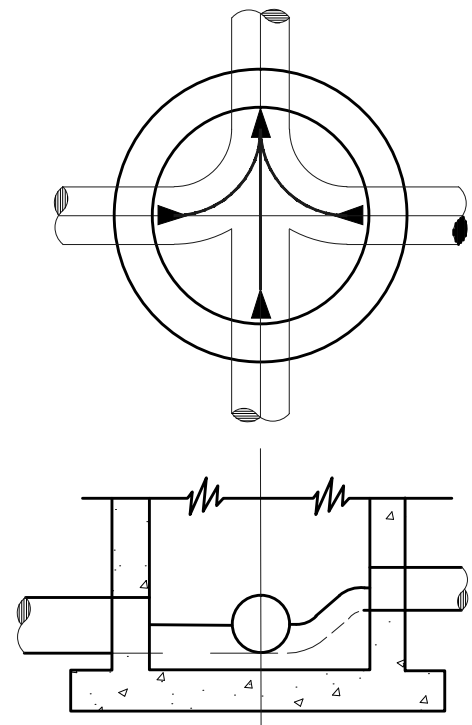
SHEET NO.
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11900-MULTI-UDET

CAM #18-0242
Exhibit 1
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100% DOCUMENTS - FOR CONSTRUCTION

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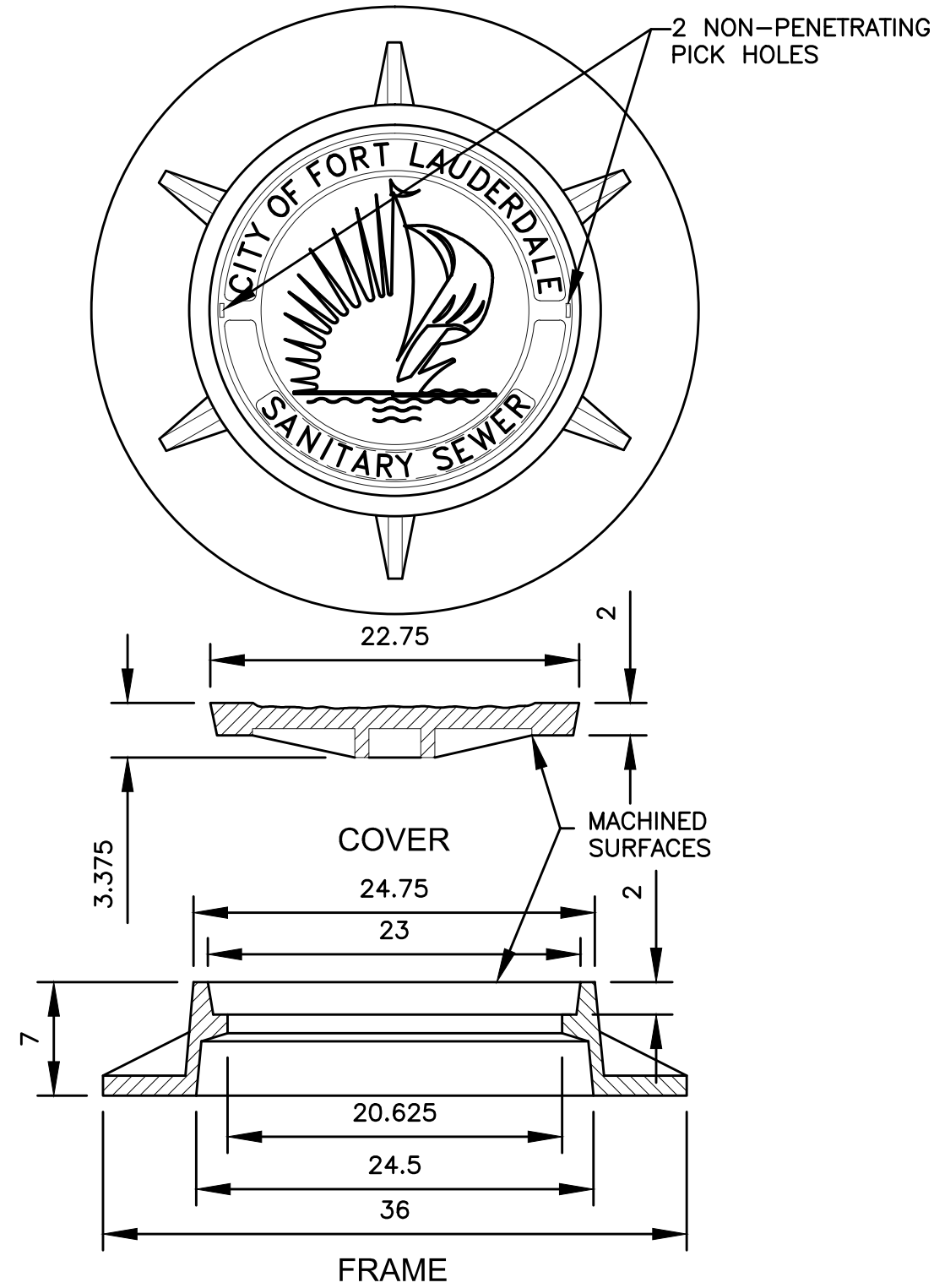


NOTES:

1. ALL INVERT CHANNELS ARE TO BE CONSTRUCTED FOR SMOOTH FLOW WITHOUT OBSTRUCTION.
2. PROPERLY SHAPED SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS TO PROVIDE FOR SMOOTH FLOWS.
3. SERVICE LATERALS SHALL NOT ENTER MANHOLES UNLESS SPECIFIED ON PLANS AND THEN MUST BE TREATED AS MAINS. (ELEVATIONS SHOWN, PRECAST HOLE, FLOW CHANNEL)
4. BRICK RUBBLE PERMITTED AS FLOW CHANNEL BUILDUP.
5. SIDEWALLS OF FLOW CHANNEL SHALL BE AT LEAST HALF OF PIPE HEIGHT AT ALL POINTS.
6. NO INSIDE DROP LARGER THAN 6" SHALL BE ALLOWED WITH 3 OR 4 INVERTS AND MANHOLES WITH A CHANGE OF DIRECTION OF FLOW OF MORE THAN 45 DEGREES.

INVERT FLOW CHANNELS - 202
NOT TO SCALE

FTL

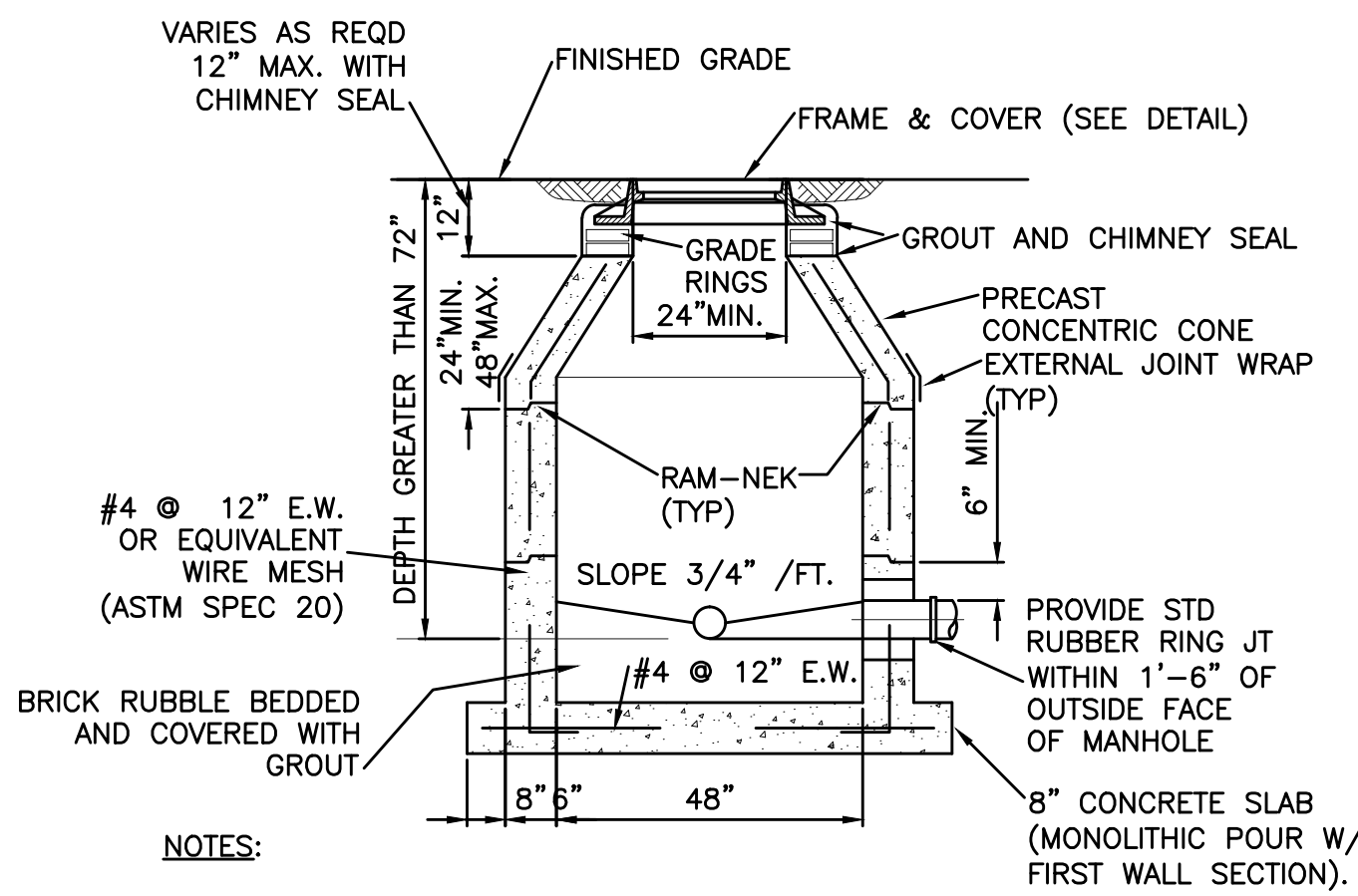


NOTES:

1. MATERIAL: FRAME AND COVER AS SPECIFIED.
2. ADDITIONAL GRADE RINGS MAY BE USED TO ELEVATE EXISTING MANHOLE FRAMES TO RESURFACED GRADE (MAX. 4" HEIGHT).
3. ALL DIMENSIONS ARE NOMINAL.
4. OPTIONAL: HINGED FRAME AND COVER AS SPECIFIED.

MANHOLE FRAME &
COVER-PAVED AREAS - 200
NOT TO SCALE

FTL

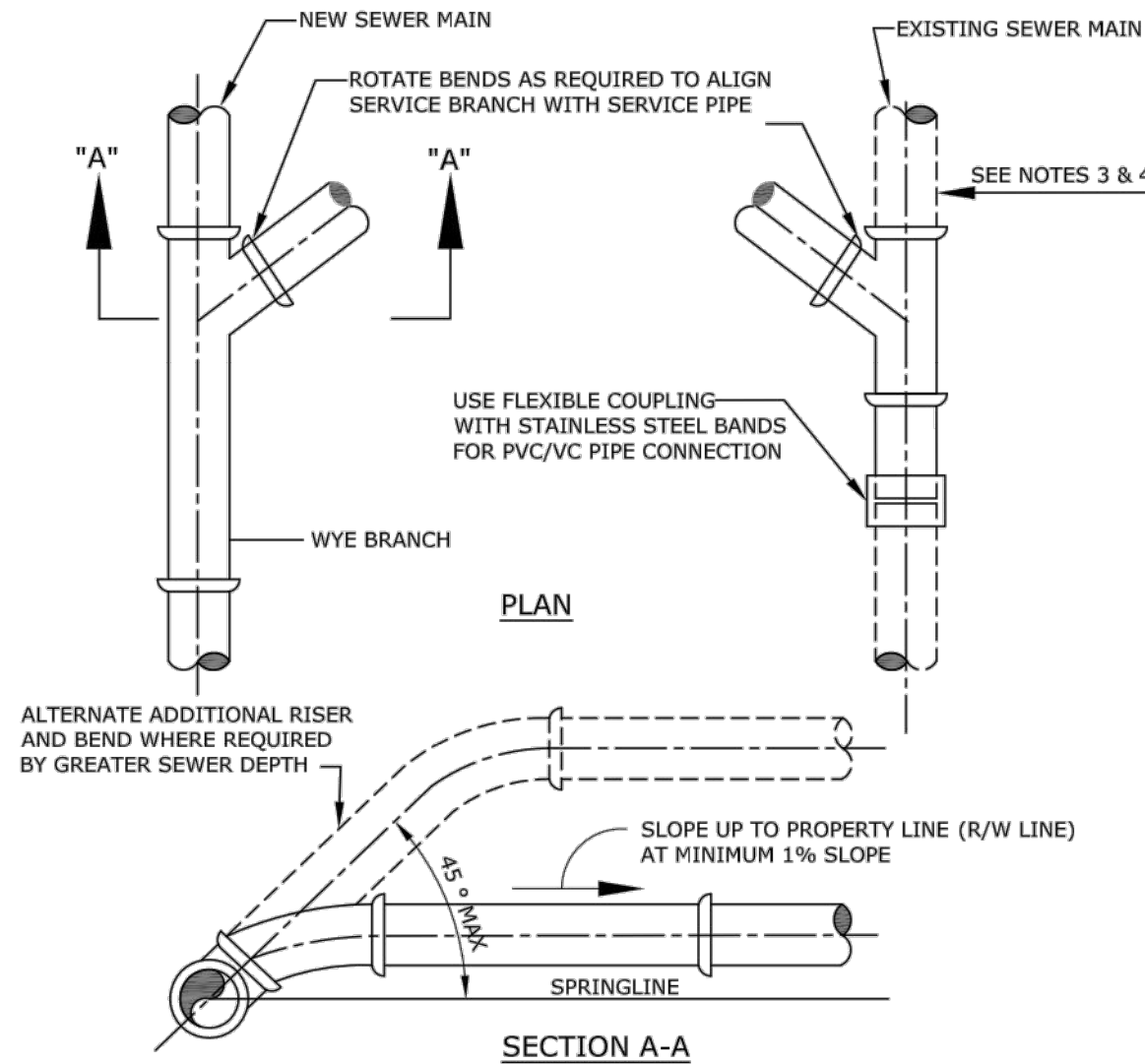


NOTES:

1. PRECAST CONCRETE TYPE II 4000 P.S.I.
2. "RAM-NEK" OR EQUAL AT ALL RISER JOINTS (1/2" THICK WITH THE WIDTH AT LEAST 1/2 THE WALL THICKNESS).
3. ALL OPENINGS SHALL BE SEALED WITH A WATERPROOF NON-SHRINKING GROUT.
4. FLOW CHANNELS SHALL BE CONSTRUCTED TO DIRECT INFLUENT INTO FLOW STREAM. (SEE DETAIL)
5. LIFT HOLES ARE PERMITTED.
6. ALL PIPE HOLES SHALL BE PRECAST OR CORE DRILLED.
 - A. FOR PVC PIPE ENTERING MANHOLE WITH PRECAST HOLES USE THE APPROVED NON-ASBESTOS PVC-MANHOLE ADAPTER OR PRECAST FLEXIBLE MANHOLE SLEEVE FOR THE APPROPRIATE PIPE DIAMETER AND DIMENSION RATIO. THE ADAPTER SHALL NOT EXTEND MORE THAN 1" INTO THE MANHOLE. DOUBLE BANDING IS REQUIRED FOR FLEXIBLE MANHOLE SLEEVE.
 - B. CONNECTION TO A MANHOLE WITH A CORE DRILLED HOLE SHALL BE MADE USING A 5" MIN. DUCTILE IRON PIPE SECTION (EPOXY LINED) OR THE APPROVED PVC-MANHOLE ADAPTER.
7. INSIDE DROPS SHALL NOT BE DESIGNED TO EXCEED 1.80 FEET AND NOT CONSTRUCTED TO EXCEED 2.0 FEET. MAX. 6" INSIDE DROP IS PERMITTED FOR MANHOLES WITH 3 OR MORE INVERTS AND MANHOLES WITH A CHANGE IN FLOW DIRECTION OF MORE THAN 45 DEGREES.
8. MANHOLE FABRICATION SHALL BE IN ACCORDANCE WITH ASTM C-478, LATEST STANDARD.
9. MINIMUM 5 FEET IS REQUIRED BETWEEN OUTSIDE OF MANHOLE AND SERVICE WYE.
10. MANHOLES TO BE PAINTED INSIDE AND OUTSIDE WITH 2 COATS OF AN APPROVED PROTECTIVE COATING. (ONE COAT RED, ONE COAT BLACK) MIN. 8-10 MILS D.F.T. PER COAT.
11. MANHOLE SHALL BE SET PLUMB TO LINE AND GRADE.

STANDARD MANHOLE - 203
NOT TO SCALE

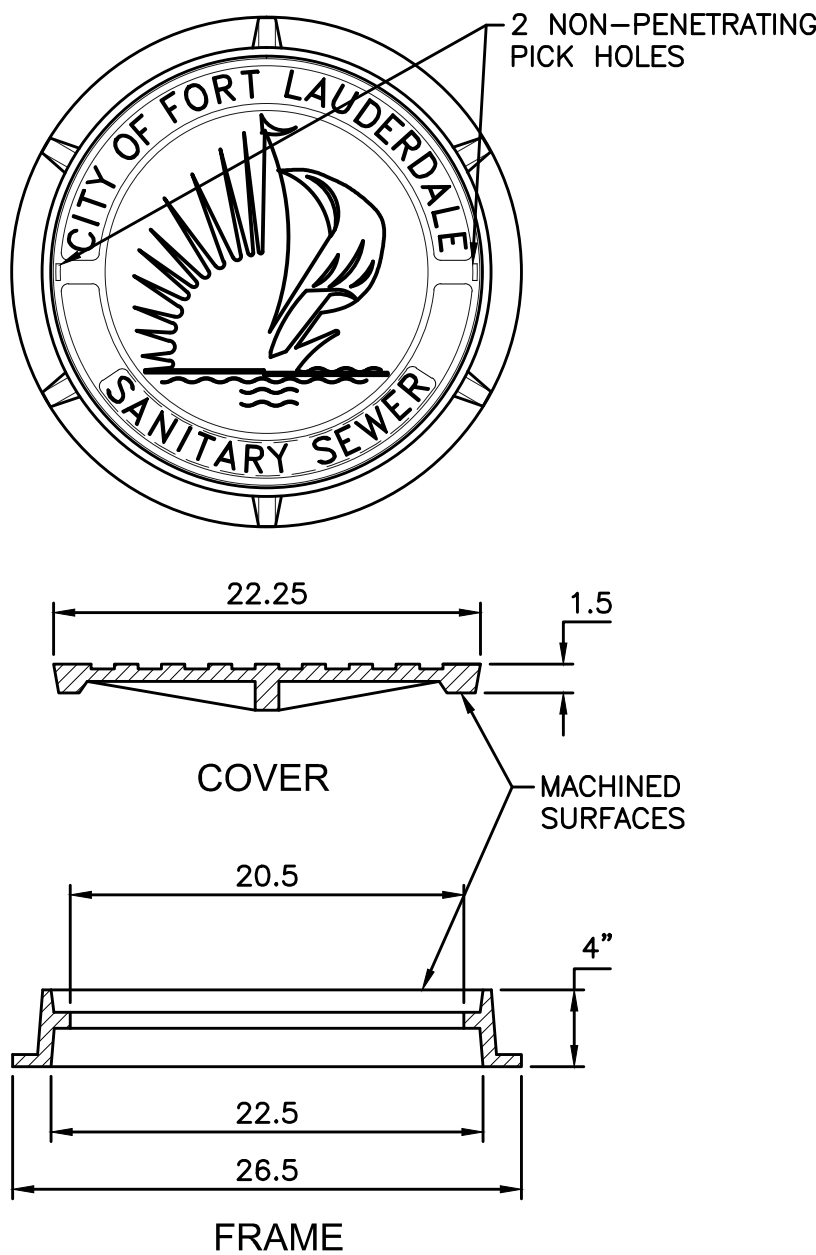
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1. SINGLE SERVICE CONNECTIONS SHALL USE 6" SDR 26 PVC PIPE AND FITTINGS.
2. USE RISER CONNECTIONS WHERE INVERT OF SEWER IS MORE THAN 7'-0" DEEP.
3. WHERE BELL OF WYE AND SPIGOT OF EXISTING MAIN ARE NOT COMPATIBLE, USE A SECOND FLEXIBLE COUPLING.
4. RIGID COUPLINGS MAY BE USED IN LIEU OF FLEXIBLE COUPLINGS.
5. MAINTAIN 36" MINIMUM COVER FROM TOP OF SERVICE TO FINISH GRADE; WHERE NOT TECHNICALLY FEASIBLE CONTACT WWS ENGINEERING.
6. PVC SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH MINIMUM STANDARDS OF THE UNI-BELL HANDBOOK OF PVC PIPE DESIGN AND CONSTRUCTION, LATEST EDITION.

WYE SEWER SERVICE CONNECTION
DETAIL 331
NTS

BC

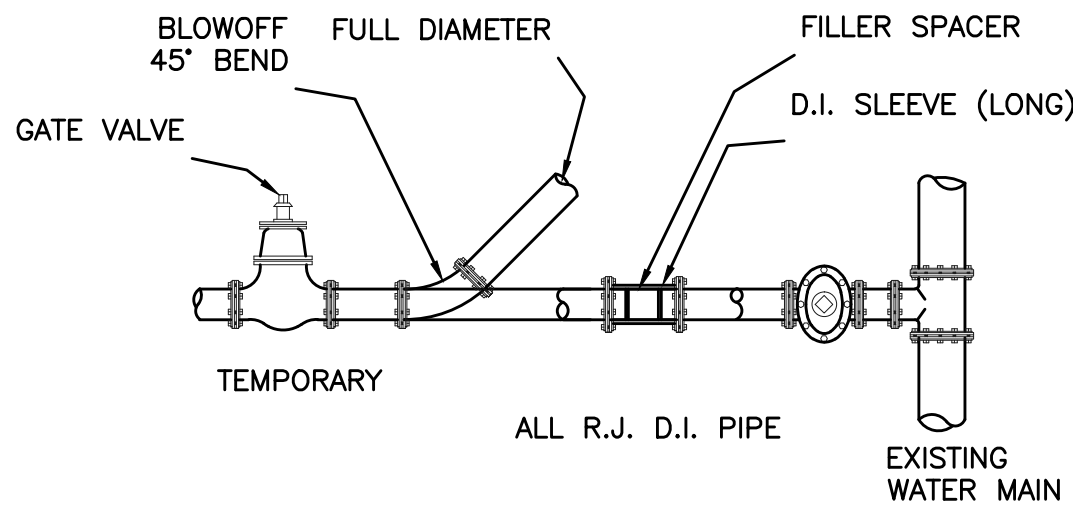


NOTES:

1. MATERIAL: FRAME AND COVER AS SPECIFIED.
2. ADDITIONAL GRADE RINGS MAY BE USED TO ELEVATE EXISTING MANHOLE FRAMES TO RESURFACED GRADE (MAX. 4" HEIGHT).
3. ALL DIMENSIONS ARE NOMINAL.
4. OPTIONAL: HINGED FRAME AND COVER AS SPECIFIED.

MANHOLE FRAME &
COVER-UNPAVED AREAS - 201
NOT TO SCALE

FTL

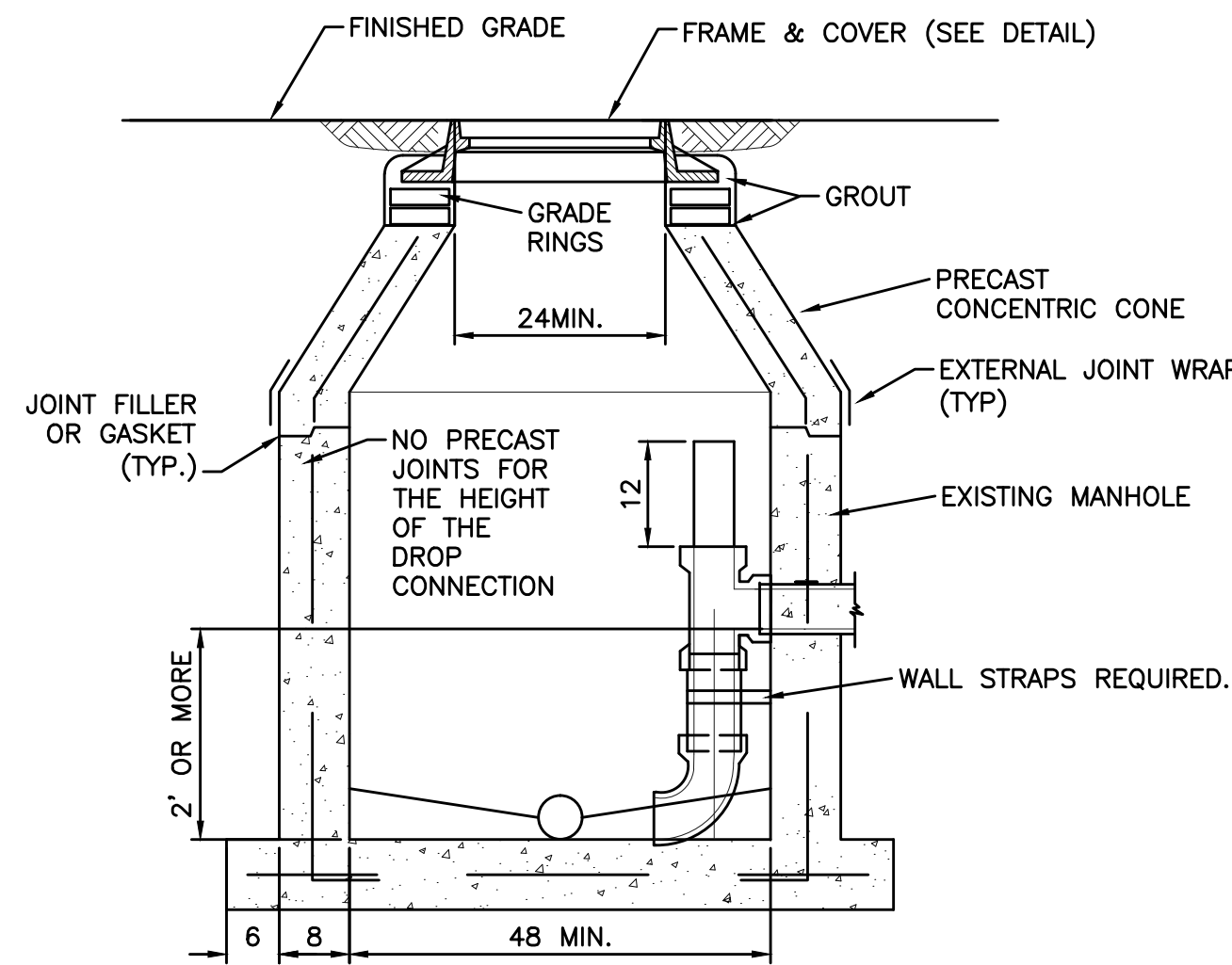


NOTES:

1. UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAINS SHALL BE SWABBED AND FLUSHED TO REMOVE DIRT AND ANY OTHER FOREIGN MATTER BY ACHIEVING A MINIMUM VELOCITY OF 2.5 FEET PER SECOND IN THE PIPE. TEMPORARY FITTINGS, PIPE, ETC. MAY BE NEEDED TO FACILITATE FLUSHING.
2. INSTALL A 45° BEND AND ASSOCIATED PIPING AS SHOWN TO DIRECT THE FLUSHING WATER AWAY FROM THE IMMEDIATE WORK AREA AND EXERCISE DUE CARE SO AS TO ENSURE THAT THE WATER USED IN FLUSHING DOES NOT CAUSE A NUISANCE OR INFLICT PROPERTY DAMAGE.
3. BENDS AND PIPING SHALL BE THE SAME SIZE AS THE LINE TO BE FLUSHED.
4. PRIOR TO THE ACTUAL LINE FLUSHING OPERATION, THE CONTRACTOR SHALL PROPERLY NOTIFY THE CITY INSPECTOR OF SUCH INTENDED WATER USE.
5. NO EXISTING VALVES SHALL BE TURNED ON OR OFF, EXCEPT BY AUTHORIZED CITY PERSONNEL.
6. FLUSHING SHALL NOT BE ACCOMPLISHED WITHOUT THE ACTUAL PRESENCE OF THE CITY INSPECTOR.
7. AFTER THE LINE UNDER CONSTRUCTION HAS BEEN SUCCESSFULLY FLUSHED THE CONTRACTOR SHALL REMOVE THE TEMPORARY PIPING ARRANGEMENT AND PROCEED WITH THE REMAINING CONSTRUCTION AS SPECIFIED.
8. THERE MAY BE SPECIAL REQUIREMENTS FOR FLUSHING PIPE LARGER THAN 12" DIAMETER.

FLUSHING CONNECTION AND
BLOW OFF DETAIL - 303
NOT TO SCALE

FTL



NOTES:

- ALL DETAILS AND SPECIFICATIONS FOR STANDARD MANHOLES ARE APPLICABLE EXCEPT FOR REFERENCES TO DROP ASSEMBLY. INSIDE DROP CONNECTION TO BE USED ONLY FOR A SINGLE DROP CONNECTION TO AN EXISTING MANHOLE. DROP CONNECTIONS SHALL BE REQUIRED WHENEVER AN INFLUENT INVERT IS LOCATED 2.0 FEET OR MORE ABOVE THE MAIN INVERT CHANNEL. DROP CONNECTIONS SHOULD NOT BE DESIGNED FOR LESS THAN A 2.4 FOOT DROP. SOLVENT TYPE JOINT PVC FITTINGS TO BE UTILIZED IN THE DROP ASSEMBLY ONLY.

INSIDE DROP CONNECTION EXISTING
MANHOLE TYPE C-207
NOT TO SCALE

FTL

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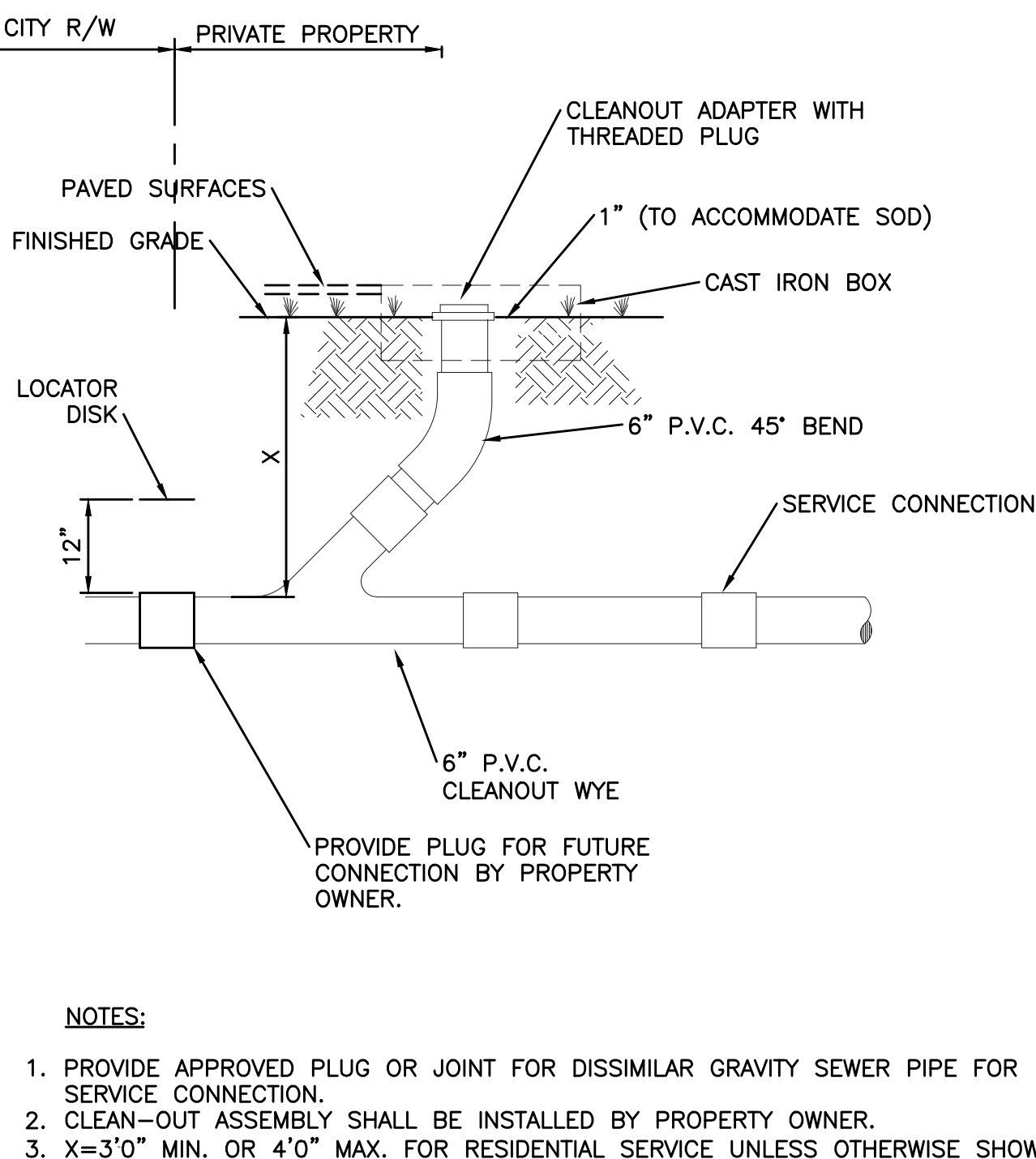
BROWARD COUNTY
STANDARD DETAIL

FTL

CITY OF FORT LAUDERDALE
STANDARD DETAIL

KHA

KIMLEY-HORN AND
ASSOCIATES DETAIL



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JASON A. WEBBER, P.E.
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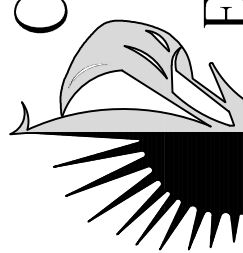
KHA PROJ #: 040814003

DATE: 06/28/2017
DRAWN BY: JJ
DESIGNED BY: JJ
CHECKED BY: JAW

SCALE: AS SHOWN

FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE


100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION
1	01/12/18	KHA	KHA	PERMIT COMMENTS C

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LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

UTILITY DETAILS

SHEET NO.
C6-4.04

11900-MULTI-UTDET

CAM #18-0242
Exhibit 1
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