

RELATIONSHIP BETWEEN NGVD 1929 AND NAVD 1988

DATUM	DIFFERENCE	ELEV.
NGVD 1929	+1.55 FEET	1.55'
NAVD 1988	-1.55 FEET	0.00'

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 1988 DATUM

DISTRICT	CITY COMMISSION
D	LOU SARBONE, MAYOR
E	JOSH RYDELL, VICE-MAYOR
А	BECKY TOOLEY, COMMISSIONER
В	MICKEY BELVEDERE, COMMISSIONER
С	SANDY WELCH, COMMISSIONER

LAND DESCRIPTION:

A PORTION OF SECTION 31 TOWNSHIP 47 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA.

FEMA FLOOD ZONE:

THE PROPERTY IS LOCATED WITHIN FLOOD ZONE X - BELOW 500 YEAR FLOOD, AS SHOWN ON F.I.R.M. NUM. 12011C0155H, BEARING A MAP EFFECTIVE DATE OF 8/18/2014.

" THE PUBLIC ROADWAY(S) INDICATED IN THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN. CONSTRUCTION AND MAINTENANCE FOR STREETS & HIGHWAYS - STATE OF FLORIDA."

THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.



PROJECT LIMITS

HILLSBORO PINES (BILL BLACK'S PLAT) WATER MAIN EXTENSION HILLSBORO PINES NEIGHBORHOOD CITY OF COCONUT CREEK, BROWARD COUNTY, FLORIDA



LOCATION MAP SECTION 31, TOWNSHIP 47 S, RANGE 42 E

PREPARED FOR: THE CITY OF COCONUT CREEK 4800 W COPANS RD. COCONUT CREEK, FL, 33063

> **CITY OF COCONUT CREEK** RFQ No. 11-19-14-10

B.C.H.C.E.D. REF. #210212101

PERMIT SET MUST BE ON JOBSITE AT ALL IMES DURING CONSTRUCTION

> ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS

BROWARD COUNTY HIGHWAY CONSTRUCTION AND

DEAN CONSISTENT WITH PLAT REQUIREMENTS PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE DATE: APR 1 6 2021

ENGINEERING DIVISION

NOTICE INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN

THE PUBLIC R/W CONTACT THE BROWARD

COUNTY HIGHWAY CONSTRUCTION AND

ENGINEERING DIVISION AT 954-577-460

FOR INSPECTION.

THE FOLLOWING ITEMS

DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKING & SIGNS

NOTE:

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A PERMIT FOR CONSTRUCTION MUST BE OBTAINED FROM THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION PRIOR TO COMMNENCING CONSTRUCTION IN THE PUBLIC RIGHT OF WAY

Sheet Sequence No.	Sheet Identification	Sheet Title
		COVER
1	GI-001	GENERAL NOTES
2	GI-002	CONSTRUCTION SPECIFICATIONS
3	GI-003	LEGEND
4	GI-004	KEY MAP
5	CU-101	WATER PLAN
6	CU-102	WATER PLAN
7	CU-103	WATER PLAN
8	CU-104	WATER PLAN
9	CU-105	WATER PLAN
10	CU-201	WATER PROFILE
11	CU-202	WATER PROFILE
12	CU-501	WATER DETAILS
13	CU-502	WATER DETAILS
14	CU-503	WATER DETAILS
15	CU-504	WATER DETAILS
16	CP-101	PAVEMENT RESTORATION PLAN
17	CP-102	PAVEMENT RESTORATION PLAN
18	CP-103	PAVEMENT RESTORATION PLAN
19	CP-104	PAVEMENT RESTORATION PLAN
20	CP-105	PAVEMENT RESTORATION PLAN
21	CP-501	PAVEMENT RESTORATION DETAILS
22	CM-501	PAVEMENT MARKING AND SIGNAGE DETAILS
23	CM-502	PAVEMENT MARKING AND SIGNAGE DETAILS
	EPTED BY BROWARD CO	

BROWARD COUNTY DESIGN OR OPERATIO

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW / MARKINGS MADE OF PAVER BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WA CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED MARKINGS FOR SPEED TABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND S 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 ASPHALT WORK.

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 PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER MARKINGS ON OR ADJACENT TO PAINTED ASPHALT, RAISED INTERSECTIONS AND RELATED MARKINGS AND S MARKINGS FOR SPEED TABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS 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 AND ASPHALT WORK



General Notes	3.10.In areas where the I
This construction project may or may not include all items covered by these notes and specifications, i.e. paving, grading, drainage lines, water lines, or sanitary sewer lines. See plans for detailed project scope. Notes and specifications on this sheet refer to paving, grading, drainage, water, and sanitary sewer, and are intended for this projects scope of	operation, the contractor original thickness and s over such areas. This restoring original degree composition, stability, and take place the same
work and for reference purposes for other work items that may be required due to unforeseen existing conditions or required remedial work.	reworked, the base sha governing standards and resulting from the cont exposed base as stated
1.1. County and "City" in these notes refers to County and	
1.2. State in these notes refers to the State of Florida.1.3. Existing topographic information in the plans is based on survey data and best available information. See project	vehicle traffic. 3.12.The topographic survey

- the topographic information. 2. Applicable Codes 2.1. All construction and materials shall conform to the the proposed development of the site. This includes, but is 62-621.300(4)(b)) to FDEP notices center. The contractor properties at all times.
- other jurisdictional, State and national codes where required at any phase of the project. The contractor shall water pollution prevention plan (SWPPP) that was required 7.1. During construction, the project site and all adjacent plotted at a minimum of every 100 lf, unless applicable.
- construction specifications in these plans, and the contract information for determining the amount of copy of the SWPPP at the construction site from the date clear of all surplus material or trash. The paved areas documents and specifications in the specification booklet, excavation/dredging and filling required. Any quantities of project initiation to the date of final site stabilization. A shall be broom swept clean.
- strict compliance with all the requirements of the Federal no circumstances shall be used by the contractor in lieu FDEP to discontinue permit coverage, subsequent to landscaping), damaged by his work, equipment, or occupational safety and health act of 1970, and all State of performing their own earthwork calculations required for completion of construction. For additional information see employees, to a condition at least equal to that existing and jurisdictional safety and health regulations.
- State, County, and City laws, codes, and regulations.
- requirements of the Americans with Disabilities Act (ADA), recommendations written or implied by the geotechnical for the following items listed below, but not limited to: 7.4. All land survey property monuments or permanent drawings shall be submitted. These drawings s State ADA codes, and Florida Building Code ADA codes engineer for this project. The geotechnical conditions and latest edition.
- 2.6. Trench safety act
- 2.6.1. All trench excavation shall be performed in accordance with chapter 90-96 of the laws of Florida (the trench safety act).
- 2.6.2. All trench excavation in excess of 5 feet in depth 29 cfr. Section 1926.650 subpart p.
- completed, signed, and notarized copy of the trench safety act compliance statement. The contractor shall 3.14. The contractor shall ensure that the available engineer, the contractor shall review and approve the compliance with the applicable trench safety codes.
- 2.6.4. A trench safety system, if required, shall be designed by the excavation contractor utilizing a specialty engineer as required.
- 3. Construction Notes:
- 3.1. Contractor shall tie to existing grade by evenly sloping from closest proposed grade provided to existing grade at limits of construction, unless otherwise noted on the plans. If no limit of work line is indicated, slope to adjacent property line or right-of-way line, as applicable.
- manholes, catch basins, meters and other structures, whether indicated on the plans or not shall be adjusted to match the new grade, by the contractor.
- 3.3. The curb shall be sloped to accommodate the new pavement, catch basin and grate, and the surface flow pattern.
- asphalt pavement and during excavations, so that the prior to issuing written approval to the contractor. existing catch basins and grates that are to remain will 3.17. Any known or suspected hazardous material found on not be damaged.
- resurfacing the roadway. The edge of pavement shall contractor to protect the area of known or suspected •Landscaping match the new gutter lip per FDOT index 300.
- the given elevations and at the proper slopes depicted in The owner/engineer will arrange for investigation, •Site lighting the specifications, details and standards. Existing driveways identification, and remediation of the hazardous material. •Electrical and communication lines and other features shall be matched when possible as The contractor shall not return to the area of •Utility conduits directed by the engineer.
- 3.7.Radii shown are to the edge of pavement.
- contractor in the same way as public land corners.
- 3.9.All excess material is to be disposed by the contractor walk-throughs. within 72 hours.

3.10.In areas where the base is exposed by the milling 4. Preconstruction Responsibilities structural capacity before paving construction. includes but is not limited to 4.2.No construction may commence until the appropriate day the base is exposed and meeting has been conducted. ntractor's failure to protect the activity.

in order to facilitate emergency and sewer lines.

y included with this set of plans survey and notes on plan sheets regarding the source of reflects pre-demolition conditions and does not reflect the site conditions after demolition. The contractor is fully and solely responsible in determining the required earthwork for discharge from construction activities form (DEP form standards and specifications of the city, county, and all not limited to, any excavation/dredge and fill activities will be responsible for (1) implementation of the storm 7. Project Progress and Closeout the contractor shall submit written request for clarification. included in the approved permits were estimated by the "notice of termination (N.O.T.) of generic permit coverage" 7.2. The contractor shall restore or replace any public or 8.7.7. Retention area "as-built" elevations shall be cost estimating and bidding the project.

2.4. The contractor shall be required to comply with Federal, 3.13. The contractor shall be responsible for reading and water/npdes. familiarizing themselves with any and all available 4.6. Prior to construction or installation, 1 electronic set of 7.3. Material or debris shall be hauled in accordance with "as-built" information shall be put on the 2.5. All handicap accessible areas to conform to the geotechnical reports prepared by others and/or any shop drawings shall be submitted for review as required NPDES permit and jurisdictional laws. recommendations outlined in these reports are in force and in full effect as part of the proposed improvements. The contractor is responsible for ensuring that all the work associated with this project is in compliance with the geotechnical engineer's recommendations. Keith and •Sewer: Manholes, lift stations (wetwell, hatches, valves, activities shall be graded, sodded, & restored to a 2008 or later. Associates, Inc. is not responsible for the suitability or pump data, electrical panel) shall be undertaken in accordance with O.S.H.A. standard unsuitability of the soils encountered. It is the contractor's 4.0.1. Catalogue literature shall be submitted for responsibility to ensure that the means and methods of drainage, water and sewer pipes, fittings, and 2.6.3. The contractor shall submit with his contract a construction used can and will allow for the successful appurtenances. completion of the required site improvements.

also submit a separate cost item identifying the cost of geotechnical information is sufficient for his complete drawings, and shall note in red any deviations from understanding of the soil conditions for the site. If the engineer's plans or specifications. additional geotechnical investigation is required by the 4.0.3. Individual shop drawings for all precast contractor, this additional work shall be considered structures are required. Catalogue literature will not be incidental to the contract and no additional compensation accepted for precast structures. shall be allowed.

3.15. The contractor shall be responsible for the repair and accordance with FDOT, County & City requirements, and restoration of existing pavement, pipes, conduits, sprinkler submit for approval prior to beginning construction. heads, cables, etc., and landscaped areas damaged as a 5. Inspections / Testing: result of the contractor's operations and/or those of his 5.1. The contractor shall notify in writing the owner, City, points. subcontractors and shall restore at no additional cost.

3.2. Unless otherwise indicated on the plans, all existing 3.16. The contractor shall not bring any hazardous materials onto the project. Should the contractor require such for performing the contracted work, the contractor shall the following items, where applicable: request, in writing, permission from the owner, city and engineer. The contractor shall provide the owner, city and engineer with a copy of the material safety data sheet (MSDS) for each hazardous material proposed for use. The 3.4. The contractor shall use care when cutting the existing project engineer shall coordinate with the owner and city

the project by the contractor shall be immediately reported •Asphalt or concrete pavement 3.5. The contractor shall maintain the roadway slope when to the city and/or engineer, who shall direct the •Sidewalks, concrete flatwork/curbing contamination from further access. The city and/or •Pavement marking and signage 3.6. The new sidewalk shall be constructed in accordance with engineer are to notify the owner/engineer of the discovery. • Signalization contamination until approval is provided by the engineer.

3.18. The contractor shall contact the appropriate city .Final 3.8. All bench mark monuments within the limits of engineering inspector and engineer 48 hours in advance of 5.1. The owner, engineer, and jurisdictional permitting agencies construction shall be protected and referenced by the the event to notify the city of construction start up, or to may make inspections of the work at any time. The 8.6. "As-built" drawings of all drainage lines shall include the (facilities) as shown on construction drawings are schedule all required tests and inspections including final contractor shall cooperate fully with all inspections.

yard drains. meter box.

 Subgrade Limerock base

Irrigation

- of compaction, moisture content, permits have been obtained from all municipal, State, ^{6.} Temporary Facilities d intended slope. If paving will not County, and Federal agencies and a pre-construction 6.1.It shall be the contractor's responsibility to arrange for and pipe inverts.
- specifications. Any additional work obtained by the contractor prior to any construction works, cost included under mobilization.
- y shall be the contractor's cost. connection to the existing water and sewer lines with the mobilization.

 - 4.0.2. Prior to submitting shop drawings to the
 - 4.7 Contractor to submit maintenance of traffic plan(s) in
 - agencies having jurisdiction at least 48 hours prior to beginning construction and prior to required inspections of
 - Clearing and earthwork
 - Storm drainage systems
 - Sanitary sewer systems
 - •Water distribution systems

specifications shall be performed by a licensed / FDOT

qualified testing company. Required test for asphalt and applicable. r shall restore the base to its 4.1. All utility / access easements to be secured prior to limerock shall be taken at the direction of the engineer or 8.6.2. The size of the lines. the jurisdictional governmental agency in accordance with 8.6.3. Drainage well structure shall include, but the plans and specifications.

- or supply temporary water service, sanitary facilities, 8.7. "As-built" drawings of construction areas shall inc all be sealed according to the 4.3. All required governmental agency building permits to be communications, and electricity, for his operations and following:
- 6.2. Contractor shall construct temporary fencing to secure enough intermediate points to confirm slope consist I above in order to restore the 4.4.Contractor to coordinate construction scheduling for construction areas at all times, cost included in 8.7.2. Rock elevations and concrete base elevation
- maintain existing signage during utility department that owns and/or maintains the water 6.3. Contractor to obtain a secure staging area and obtain all elevation shown on the design plans. necessary approvals from the owner.
 - 4.5. Prior to the start of construction, the contractor shall 6.4. Contractor shall construct and maintain temporary 8.7.4. Finish grade elevations in island areas. submit an NPDES construction general permit (CGP) "notice lighting as required to light the construction project limits 8.7.5. "As-built" elevations shall be taken on all pa of intent (N.O.I.) to use Generic Permit for storm water at all times, to at least the same lighting intensity levels unpaved swales, at enough intermediate points to as the existing conditions.
 - 6.5. The contractor shall maintain access to adjacent 8.7.6. Lake and canal bank "as-built" drawing
- use the final approved (released for construction) plans, to be developed prior to NOI submittal, and (2) retention areas shall be maintained in a neat and clean manner, 2.2. In the event of a conflict between the general notes and surveys, geotechnical reports, and any other available of records required by the permit, including retention of a and upon final clean-up, the project site shall be left and elevation of the top of bank, edge of water,
- 2.3. All construction shall be done in a safe manner and in engineer for purposes of obtaining the permit and under form (DEP form 62-621.300(6)) must be submitted to private property (such as highway, driveway, walkway, and at the bottom of the retention area and at the FDEP website: http://www.dep.state.fl.us/water/ storm immediately prior to the beginning of construction. Suitable 8.8. Upon completion of the work, the contractor shall materials and methods shall be used for such restoration. "as-built" drawings on full size, 24" x 36" she

 - •Drainage: Catch basins, manholes, headwalls, grates/tops, reference markers, removed or destroyed by the contractor signed and sealed by a Florida registered pro during construction shall be restored by a State of Florida engineer or land surveyor. •Water: Fire hydrants, valves, backflow preventer, DDCV, registered land surveyor at the contractor's expense. 8.9. An electronic copy of these "as-built" drawings
 - 7.5. All unpaved surfaces disturbed as a result of construction submitted to the engineer of record in AutoCAD, condition equal to or better than that which existed before 9. Utility Notes the construction.
 - 8. Project record documents:
 - 8.1. During the daily progress of the job, the contractor shall 9.2. The contractor is advised that properties adjacent record on his set of construction drawings the location, project have electric, telephone, gas, water and/or length, material and elevation of any facility not built service laterals which may not be shown in plan according to plans. This copy of the "as-built" shall be contractor must request the location of these submitted to engineer for project record.
 - 8.2. Upon completion of drainage improvements and limerock 9.3. The contractor shall use hand digging when exe base construction (at least 48 hours before placing asphalt near existing utilities. Extreme caution shall be e pavement) the contractor shall furnish the engineer of by the contractor while excavating, installing, backfi record "as-built" plans for these improvements, showing compacting around the utilities. the locations and pertinent grades of all drainage 9.4. The contractor shall notify and obtain an under installations and the finished rock grades of the road clearance from all utility companies and gover crown and edges of pavement at 50 foot intervals, agencies at least 48 hours prior to beginning including locations and elevations of all high and low construction. The contractor shall obtain
 - acceptance, the contractor shall submit to the engineer of excavation. record one complete set of all "as-built" contract 9.5. Prior to commencement of any excavation, the drawings. These drawings shall be marked to show contractor shall comply with Florida statute 553.8 "as-built" construction changes, dimensions, locations, and the protection of underground gas pipelines. elevations of all improvements.
 - 8.4. "As-built" drawings of water lines and force mains shall include the following information:
 - 8.4.1. Top of pipe elevations every 100 LF.
 - 8.4.2. Locations and elevations of all fittings including bends, tees, gate valves, double detector check valves, 9.6.2. County transit authority fire hydrants, and appurtenances.
 - 8.4.3. All connections to existing lines.
 - 8.4.4. Ends of all water services at the buildings where 9.6.5. Jurisdictional police department(s) the water service terminates.
 - 8.5. "As-built" drawings of gravity sanitary sewer lines shall over, and around existing electric lines. The co include the following information:
 - 8.5.1. Rim elevations, invert elevations, length of piping locations, voltage, and required clearances, on between structures, and slopes.
 - 8.5.2. The stub ends and cleanouts of all sewer laterals in the vicinity of existing lines. shall be located horizontally and vertically.
 - following information:

5.2. Testing - all testing required by the plans and 8.6.1. Rim elevation, invert elevation, length of piping responsibility for the accuracy of the facilities sho between structures, and control structure elevations if for any facility not shown. It is the contractor's

- limited to, top of casing elevation, top and elevations of the structure and baffle walls, rim e
- 8.7.1. Rock elevations at all high, and low points,
- be taken at all locations where there is a finis
- 8.7.3. All catch basin and manhole rim elevations.
- slope consistency and conformance to the plan de
- include a key sheet of the lake for the location sections. Lake and canal bank cross sections specified. "as-built" drawings shall consist of the deep cut line, with the distance between each s the drawing.
- bank. If there are contours indicated on the desig then they shall be included in "as-built" drawings
- engineering drawings. Eight (8) sets of blue or bl
- 9.1.Contractor is responsible for utility verification fabrication.
- services from the utility companies.
- Sunshine811.com Certification clearance number a County, engineer of record, and any other governmental 8.3. Upon completion of construction, and prior to final markings at least 48 hours prior to beginning

 - 9.6.For street excavation or closing or for altera access to public or private property, the contracto notify:
 - 9.6.1. Roadway jurisdictional engineering / public authority.

 - 9.6.3. School board transportation authority
 - 9.6.4. Jurisdictional fire department dispatch

 - 9.7. The contractor shall use extreme caution working shall contact the electric provider company to right-of-ways, and in easements, prior to any cons
 - 9.8.Location and size of all existing utilities and top from available records. The engineer assume

	responsibility to determine the exact location (vertical &				
not be	horizontal) of any existing utilities and topography prior to construction. The contractor shall verify the elevations and				
bottom					\square
evations	utility companies, prior to beginning any construction	1	301 East Atlar		
lude the	operations. If an existing facility is found to conflict with the proposed construction, the contractor shall immediately		Pompano Bea		
and at	notify the engineer so that appropriate measures can be taken to resolve the conflict.		PH: (954)	788-3400	
itency. ns shall	9.9. The contractor shall coordinate the work with other contractors in the area and any other underground utility			ertificate of ion # - 7928	
n grade	companies required. The contractor shall coordinate	-		011 # 1020	
	relocation of all existing utilities with applicable utility companies.	BID / C	ONTRACT NO.: 11	1-19-14-10	
	 <u>Signing and Pavement Markings</u> All signing and pavement markings installed as part of 	NO.	DESCRIPTIO		DATE
confirm	these plans shall conform to the Federal highway				
tails.	administration (FHWA) "manual on uniform traffic control				
s shall of cross	devices" (MUTCD), County Traffic Design Standards and FDOT design standards as a minimum criteria.				
	10.2. Match existing pavement markings at the limits of				
therwise	construction.				
	10.3. Removal of the existing pavement markings shall be				
and the lown on	accomplished by water blasting or other approved methods determined by the engineer.				
	10.4. Incorrectly placed paint or thermoplastic pavement				
e taken	markings over friction course will be removed by milling				
top of	and replacing the friction course a minimum width of 18				
n plans, as well.	in at the contractor's expense. The engineer may approve an alternative method if it can be demonstrated to				
prepare	completely remove the markings without damaging the		ESPONSIBILITY FOR PLANS PRIOR TO OB		
ets. All	asphalt.		OM ALL AGENCIES H	WILL FALL SOLI	
latest	10.5. Place all retro-reflective pavement markers in		UPON TH	E USER.	
ack line	accordance with standard index 17352 and / or as shown				
hall be essional	in the plans. 10.6. Caution should be exercised while relocating existing				
	signs to prevent unnecessary damage to signs. If the sign				
shall be	is damaged beyond use, as determined by the engineer,				
version	signs shall be replaced by the contractor at his expense.		IILLSBOF		IS
	10.7. All existing signs that conflict with construction operations shall be removed, stockpiled, and relocated by		ILL BLAC		
orior to	the contractor. Sign removal shall be directed by the			R MAIN	1
	engineer.				
	10.8. Relocated sign support system must meet the current design standard.		EXTEN	121011	
r sewer	10.9. The contractor shall provide an inventory of existing				
lateral	signs to remain or to be relocated prior to starting the	C	ITY OF C		JT
	job and forward this list to the engineer. Contractor shall		CRE	EK	
cavating	notify if there are any missing or damage signs that the plans show to remain or to be relocated.				
xercised	10.10. All roadway pavement markings shall be	SCAL	E:	AS	NOTE
-	thermoplastic in accordance with FDOT specifications	DATE	ISSUED:	NOVEMBE	R 202
rground	section 711. 10.11. Hand dig the first four feet of sign foundation.		VN BY:		A
	10.12. All signs shall meet all of the following:		GNED BY:	ŀ	AK, M
in a	•Meet the criteria outlined in Section 2A.08 of the 2009		ALD DT.		
nd field	MUTCD				
ng any	 Meet the specifications outlined in Section 700 and 994 of the latest FDOT Standard Specifications. 		WESA	THIE	
	•Consist of materials certified to meet the retroreflective		LICE	NSE	
351 for	sheeting requirements outlined in the current version of		No. 33		
	ASTM D4956 for type-XI retroreflective sheeting materials		*	A.	
tion of or shall	made with prisims, except for school zone and pedestrian signs which shall be comprised of retroreflective		STATI		
	fluorescent yellow-green sheeting certified to meet ASTM		SSION/	AL ENGIN	
works	D4956 Type IV retroreflective sheeting materials.				
	 Consist of retroreflective sheeting materials that have a valid FDOT Approved Product List (APL) certification for 		JAMES A. TI FLORIDA REG		
	specification 700 Highway Signing for FDOT sheeting Type				
	XI (or type IV for school and pedestrian signs).	SHEE	TTITLE		
	10.13.Patch attachment hardware, such as countersunk				
under,	screws or rivet heads, with retro reflective buttons that match the color and sheeting material of the finished sign	0	GENERA	NOTE	S
ntractor	panel including the background, legend or border.				
verify site, in	10.14.Ensure the outside corner of sign is concentric with				
truction	border. Ensure white borders are mounted parallel to the	SHEE	TNUMBER		
	edge of the sign. Ensure black borders are recessed from the edge of the sign.	Onee			
ography drawn	10.15.Layout permanent final striping that leaves no visible		GI-0	01	
es no	marks at time of final acceptance.				
own or	1111 Julie 8 14 11 11 11 11 11 11 11 11 11 11 11 11		PERMIT	SET	
and the second					

B.C.H.C.E.D. REF. #210212101

DATE

AS NOTED

AK

JT

AK, MC

NOVEMBER 2020

PROJECT NO. 07209.06

CONSTRUCTION SPECIFICATIONS

Section 20 - General Specifications Paving Grading Drainage and Earthwork

20. General

acceptable technical requirements for the materials and workmanship for construction of site improvements for this project. Such improvements 22. Asphalt Paving may generally include, but not to be limited to, clearing, grading, paving, 22.1. Where new asphalt meets existing asphalt, the existing asphalt shall removal of existing pavement storm drainage, water lines and sanitary be saw cut to provide a straight even line. Prior to removing curb or sewers.

20.2. It is the intent that the Florida Department of Transportation (FDOT) "Standard Specifications for Road and Bridge Construction: (current 22.2. Internal asphalt paving constructed on existing sandy soils shall be • Fittings w/ P.V.C. EBAA iron series 2000 megalug edition) together with "Supplemental Specifications to the Standard Sacrifications (or Production Constructed with a 12" subgrade, compacted to a minimum density of Sacrifications (or Production Constructed with a 12" subgrade, compacted to a minimum density of 100% maximum density as determined by AASHTO T-99. The compacted detail. (see water & sewer detail sheet) Specifications for Road and Bridge Construction" (current edition), and subgrade shall be constructed in the limits shown on the plans. All 30.12. Water distribution valves shall be gate valves, iron body, fully the FDOT Roadway and Traffic Design Standards (current edition) be used subgrade shall have an LBR of 40 unless otherwise noted. therein refers to the State of Florida and its Department of shown on the plans. The surface course shall consist of the thickness mechanical joints. Transportation and personnel, such wording is intended to be replaced and type asphaltic concrete as specified in the plans. All asphaltic with the wording which would provide proper terminology; thereby making concrete shall be in accordance with sections 320, 327, 330, 334, 336, such "Standard Specifications for Road and Bridge Construction" together 337, 337, 338, 339 and 341 of the Standard Specifications. with the "FDOT Roadway and Traffic Design Standards" as the "Standard 22.4. Limerock base shall be prepared, compacted and graded and shall Specifications" for this project. If within a particular section, another be in accordance with section 200 of the Standard Specifications. All 30.12.2. Tapping valves shall be Mueller T-2360 or approved equal. section, article or paragraph is referred to, it shall be part of the limerock shall be compacted to 98% per AASHTO T-180 and have not 30.12.3. Gate valves 3" or less shall be Nibco T-133 or T-136 with Standard Specifications also. The Contractor shall abide by all local and less than 70% of carbonates of calcium and magnesium unless otherwise State laws, regulations and building codes which have jurisdiction in the designated. The Engineer shall inspect the completed base course and 30.13. Tapping sleeves shall be Mueller H615, Clow F- 2505 or area.

20.3. The Contractor shall furnish all labor, materials and equipment and prior to the placement of the prime coat. A tack coat will also be 30.14. Valve boxes shall be U.S. foundry 7500 or approved equal Section 40 - Public Roadways. perform all operations required to complete the construction of a paving required if the Engineer finds that the primed base has become painted blue with the designation "water". equipment shown or specified shall not be taken to exclude any other 300 of the Standard Specifications. incidentals necessary to complete the work.

accordance with the plans and construction specifications and the the Contractor can demonstrate that the compaction equipment can minimum engineering and construction standards adopted by the unit of achieve density for the full depth of a thicker lift, and if approved by government which has jurisdiction and responsibility for the construction. the engineer, the base may be constructed in successive courses of not Where conflicts or omissions exist, the jurisdictional government more than 8 inches (200 mm) compacted thickness. Engineering Department's standards shall govern. Substitutions and 22.6. Asphalt edges that are not curbed shall be saw cut to provide of deviations from plans and specifications shall be permitted only when straight even line to the dimensions shown on plans. written approval has been issued by the Engineer.

20.5. Guarantee - all materials and equipment to be furnished and/or 23.1. Concrete sidewalk shall be in accordance with section 522 of the installed by the Contractor under this contract, shall be guaranteed for a Standard Specifications and in accordance with F.D.O.T. Roadway and period of (I) one year from the date of final acceptance thereof, against Traffic Design Standards, index no. 310. Concrete sidewalk shall be 4" defective materials, design and workmanship. Upon receipt of notice from thick, unless otherwise not and constructed on compacted subgrade, with the owner of failure of any part of the guaranteed equipment or 1/2" expansion joints placed at a maximum of 75', unless otherwise materials, during the guarantee period, the affected part or materials shall be replaced promptly with new parts or materials by the contractor, at no expense to the owner. In the event the Contractor fails to make sidewalks that cross driveways shall be 6" thick, unless otherwise noted necessary replacement or repairs within (7) seven days after notification on plans. the contractor. 21. Earthwork

1.1. All areas within the project limits shall be cleared and grubbed prior to construction. This shall consist of the complete removal and disposal 28 days and shall be in accordance with section 520 of the Standard of all trees, brush, stumps, roots, grass, weeds, rubbish and all other Specifications. Concrete curbing shall be in accordance with F.D.O.T. be color-coded blue, minimum 40 feet standard lengths. obstructions resting on or protruding through the surface of the existing Roadway and Traffic Design Standards, index no. 300. ground to a depth of 1'. All work shall be in accordance with section Section 30 - Water distribution and sanitary sewer force mains. 110 of the Standard Specifications.

21.2. None of the existing limerock material from demolished pavement is Note: If materials list here on are in conflict with utility owner, material type. to be incorporated in the new limerock base, unless noted in plans. owner requirements shall govern. incorporated into the stabilized subgrade / subbase, or stabilized marked using blue as a predominant color to differentiate drinking water and coupling nut. shoulder.

with AASHTO M-145 and shall be free from vegetation and organic shall be white or black pipe with blue stripes incorporated into, or catalog # 1100 or approved equal. material. Not more than 12% by weight of fill material shall pass the applied to, the pipe wall; and underground metal or concrete pipe shall 31.4. Curb stops shall be Ford v63-44w-x" latest revision or approved no. 200 sieve.

prior to the time he will be ready for an inspection or test. The located along the top of the pipe; for pipes with an internal diameter of approved equal. Contractor shall follow City and County inspection procedures. The 24 inches or greater, tape or paint shall be applied in continuous lines 32. Installation: inspection or test of an earlier phase of work, prior to that test or 30.2. Ductile iron pipe for water distribution mains shall conform to appurtenances, etc., pipe material shall be DIP inspection passing. The Contractor shall be responsible for providing ANSI/AWWA standard C151/A21.51 latest revision, "ductile iron pipe 32.2. All PVC pipe shall be installed in accordance with the uni-bell plastic excavation, asphalt gradation reports, concrete cylinders, etc.

21.6. When encountered, muck shall be completely removed from the accordance with ANSI/AWWA standard C104/A21.4 latest revision. The 32.3. All DIP shall be installed in accordance with ANSI/ C600-xx latest center line (10) ten feet beyond the edge of pavement each side. All pipe shall be adapted for use with class 250 fittings for all sizes. Water revision. such material shall be replaced by approved granular fill.

to full depth for a width of (5) five feet at the invert and replaced with ANSI/AWWA standard C900 latest revision. PVC pressure pipe shall be 32.5. Detector tape shall be laid 18 inches above all water and sewer granular materials.

prior to subgrade compaction and pavement construction.

(2) two inches lower than the edge of pavement to allow for the with green pigment. Reuse main shall be impregnated with purple recommended by the manufacturer.

21.10. Site grading elevations shall be within 0.1' of the required 30.6. Ductile iron fittings for water distribution mains shall conform to shall be placed in accordance with the plans and specifications.

21.11. The Contractor shall perform all excavation, fill, embankment and grading to achieve the proposed plan grades including typical road sections, side slopes and canal sections. All work shall be in accordance shall supply this material as required from off-site.

21.12. A 2" blanket of top soil shall be placed over all areas to be of the engineer. sodded or seeded and mulched within the project limits unless otherwise 30.9. Joints for PVC pressure pipe shall be bell and spigot push-on rubber of new mains shall be performed at a minimum starting pressure of 150 indicated on the plans. 21.13. Sod shall be Bahia unless otherwise indicated on the plans, and 30.10. Water distribution system restraint: all fittings and specific pipe test). The pressure test shall not vary more than 5 PSI during the test. shall be placed on the graded top soil and watered to insure joints shall be restrained as outlined below:

20.1.It is the intent of these specifications to describe the minimum satisfactory condition upon final acceptance of the project.

gutter, the adjacent asphalt shall be saw cut to provide a straight even • flex ring by American

the Contractor shall correct any deficiencies and clean the base course approved equal.

22.5. Limerock base material shall be placed in maximum 6" lifts. Bases 20.4. All labor, materials, and methods of construction shall be in strict greater than 6" shall be placed in two equal lifts. If, through field tests, 30.16. Dresser couplings shall be regular black couplings with plain

23. Concrete Construction

noted on plans. Crack control joints shall be 5' on center. All concrete

and Traffic Design Standards, index no. 304.

23.3. Concrete curb shall be constructed to the limits shown on the plans. 30.22 he concrete shall have a minimum compressive strength of 2500 PSI at

30. Materials:

have blue stripes applied to the pipe wall. Pipe striped during equal. 21.4. All fill material in areas not to be paved shall be compacted to 95% to the axis of the pipe, that are located at no greater than 90-degree construction in accordance FV63-777W" latest revision with ASTM B-62. manufacturing of the pipe shall have continuous stripes that run parallel 31.5. Meter stops shall be 90 degree lockwing type and shall be of bronze in the plans. Ductile iron pipe shall be cement lined and seal coated in standard. main shall be colored blue in accordance with Florida State Statutes. 32.4. All water mains shall typically be laid with a minimum 36" cover for 21.7. When encountered within drainage swales, hardpan shall be removed 30.5. PVC pressure pipe for sizes 4" through 12" and shall conform to PVC and 30" cover for DIP. 21.9. Ground adjacent to roadway/pavement having runoff shall be graded pipe will be cause for rejection. Water main shall be colored blue in be tested for continuity at the pressure test. accordance with Florida State Statutes. Force main shall be impregnated 32.6. Pipe deflection shall not exceed 50% of the maximum deflection

> pigment. standard C104/A21.4 latest revision. Water Main fitting shall be colored foundry or approved equal. blue in accordance with Florida state statutes.

Joint restraint

- Push-on P.V.C. EBAA iron series 1600
- Push-on DIP EBAA iron series 1700 tr-flex by U.S. Pipe or
- Fittings w/ DIP EBAA iron series 1100 megalug

- where applicable for the various work, and that where such wording 22.3. Asphaltic concrete surface course shall be constructed to the limits conforming to ANSI/AWWA C509 latest revision, and shall have
 - 30.12.1. Gate valves 4" and larger shall be Mueller A-2360, American 250 line or Clow F-6100, conforming to ANSI/AWWA C500 latest revision or approved equal.

 - malleable hand wheels or approved equal.
- with these specifications and the construction drawings. The material and course. The prime and tack coats shall be in accordance with section C111/A21.11 latest revision. All glands shall be manufactured from ductile iron as listed by underwriters laboratories for 250 psi minimum water pressure rating. Clow corporation model f-1058, standard fire
 - gaskets for galvanized steel pipe. They shall be dresser style 90. No substitutions allowed.
 - 30.17. Fire hydrants shall be Mueller centurion traffic type A-423 with 5 1/4" internal valve opening or approved equal. Pumper nozzle to be 18" from finished grade. All hydrants to be installed with control valve. Retainer glands are preferred for restraining. Fire hydrant shall comply with ANSI/AWWA C502 latest revision. Fire hydrants shall be painted in accordance with NFPA #291 or per agency standards having jurisdiction. Blue raised reflective pavement marker (rpm) shall be used to identify fire hydrant location. The placement of the rpm to be at the centerline of the outside roadway lane.
- 30.21. Swing check valves for water, sewage, sludge, and general service shall be of the outside lever and spring or weight type, in accordance with ANSI/AWWA C 508 latest revision swing-check valves for by the owner, the owner may accomplish the work at the expense of 23.2. Sidewalk Curb ramps hall be in accordance with F.D.O.T. Roadway full-opening passages, designed for a water-working pressure of 150 PSI they shall have a flanged cover piece to provide access to the disc.
 - High density polyethylene pipe (HDPE) for water distribut mains shall conform to AWWA C906 standard, latest revision. Pipes shall 31. Service connection:
 - 31.1. Service saddles shall be fusion bonded plastic coated ductile iron (ASTM A536) with stainless steel straps, saddles shall be double strap
- 31.2. Service lines shall be polyethylene (PE 3408), 200 p.s.i rated, DR9. The existing limerock material from demolished pavement may be 30.1. All water main pipe, including fittings, shall be color coded or Pipe joints shall be of the compression type totally confined grip seal
- from reclaimed or other water. Underground plastic pipe shall be 31.3. Corporation stops shall be manufactured of brass alloy in accordance 21.3. Fill material shall be classified as A-I, A-3, or A-2-4 in accordance solid-wall blue pipe, shall have a co-extruded blue external skin, or with ASTM B-62 with threaded ends, as manufactured by Ford ballcorp,
- 21.5. All material of construction shall be subject to inspection and testing installation of the pipe. If tape or paint is used to stripe pipe during to establish conformance with the specifications and suitably for the installation of the pipe, the tape or paint shall be applied in a against external leakage at the top. Stops shall be equipped with a uses intended. The Contractor shall notify the Engineer at least 24 hours continuous line that runs parallel to the axis of the pipe and that is meter coupling nut on the outlet sides, as manufactured by Ford or
- Contractor shall not proceed with any phase of work dependent on an along each side of the pipe as well as along the top of the pipe. 32.1. Where restrained pipe joints are required due to fittings,
- release of final certification by the Engineer. Test results must include, centrifugally cast in metal molds or sand-lined molds" with a minimum pipe association "guide for installation of PVC pressure pipe for municipal but may not be limited to, densities for subgrade and limerock, utilities, wall thickness of class 51 (pressure class 350) unless otherwise noted water distribution system," and ANSI/AWWA C605-xx latest revision
- made from class 12454-a or class 12454-b virgin material and lines. A 14 gauge multi-strand wire shall be attached to all 21.8. All underground utilities and drainage installations shall be in place conform with the outside diameter of cast iron pipe with a minimum nonconductive water mains to facilitate location. An extra 4 feet of wire wall thickness of dr series 18. Ultra violet degradation or sun bleached shall be provided at all valves, blow-offs, hydrants, etc. The wire shall
 - 32.7. A continuous and uniform bedding shall be provided. Backfill material
- elevation for non paved areas and all areas shall be graded to drain ANSI/AWWA standard C110/A21.10 latest revision. Fittings 4" and larger 32.8. All valves shall be installed with adjustable cast iron valve boxes with shall be cement lined and seal coated in accordance with ANSI/AWWA the word "water" or "sewer", as applicable, cast in the cover. U.S.
- 33. Testing: with section 120 of the Standard Specifications. If fill material is 30.8. Joints for bell and spigot ductile iron pipe and fittings shall conform 33.1. Before any physical connections and acceptance for operation to the required in excess of that generated by the excavation, the Contractor to ANSI/AWWA standard C111/A21.11 latest revision. Mechanical joint or existing water mains are made, the complete water system shall be push-on joint to be rubber gasket compression-type. Special fittings and flushed, pressure tested and disinfected. Copies of passing bacteriological joints shall be considered for specific installation subject to the approval results and pressure test results must be submitted to, and approved

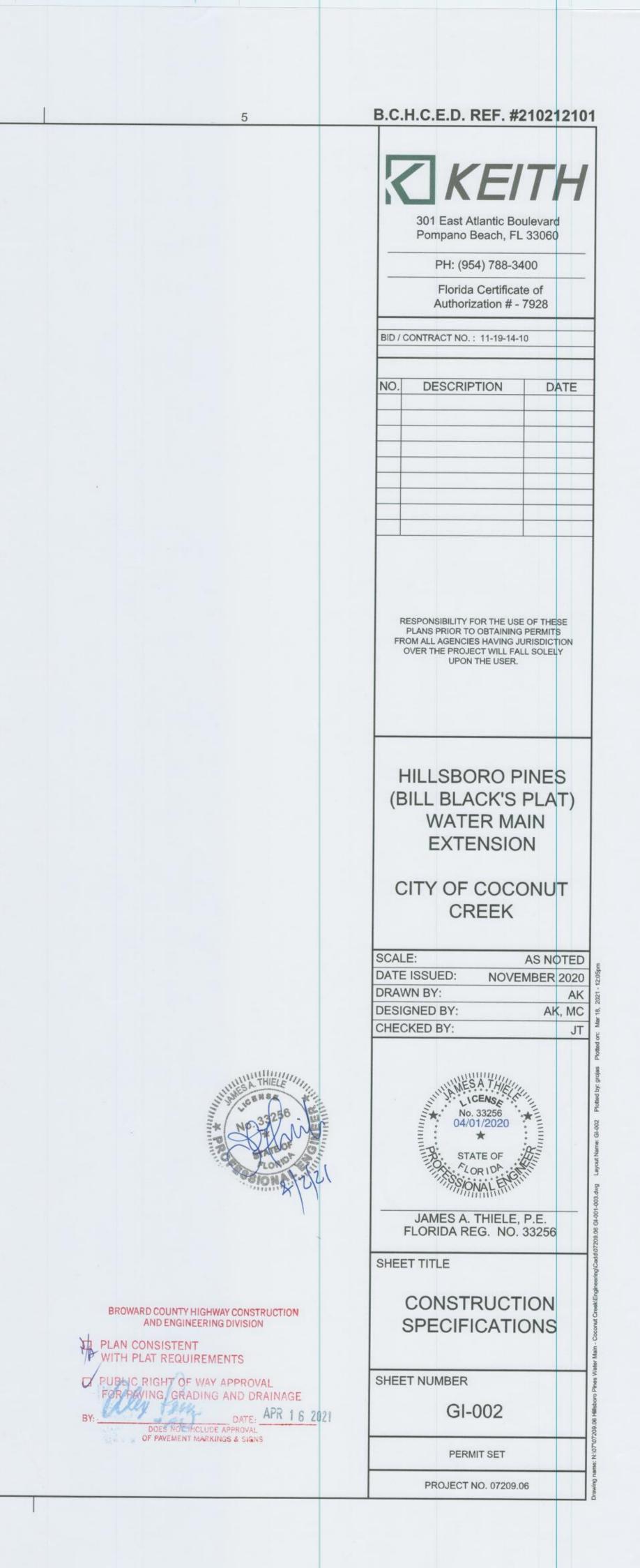
by, the engineer, utility owner, and health department. Hydrostatic testing gasket type only. No solvent weld or threaded joints will be permitted. PSI for two hours in accordance with ANSI/AWWA C600-05 (hydrostatic The allowable leakage during the pressure test shall be less than the number of gallons per hour as determined by the formula: L = (sd(p)1/2)/148,000.

> In which L equals the allowable leakage in gallons per hour. S equals length of pipe (linear feet), d equals nominal diameter of pipe (inches) and p equals the average test pressure (pounds per square inch gauge). Maximum length of test pipe section should be 2000 feet. The water system shall be disinfected in accordance with the ANSI/AWWA C651-05 (water main bacteriological tests).

33.2. The pressure test shall be witnessed by a representative of the utility owner and the engineer of record.

- 53.3.For water distribution pipes, sampling points shall be provided by the contractor at the locations shown on the plans.
- 33.4. For water distribution pipes, disinfection and bacteriological testing shall be in accordance with ANSI/AWWA C651-14 (water main bacteriological tests). Maximum distance between sampling points shall be as follows:
- Transmission mains: every 1200 feet
- Branch mains: every 1000 feet
- Isolated mains < 1000 feet: 2 sample points Isolated mains > 1000 feet: 3 sample points

and drainage system as shown on the plans, specified herein, or both. It excessively dirty or the prime coat has cured to the extent of losing 30.15. Retainer glands for DIP shall conform to ANSI/AWWA accordance with the "Manual of Uniform Minimum Standards for Design, The public roadway(s) indicated in these plans have been designed in Construction and Maintenance for Streets & Highways - State of Florida



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	Gov	neral Symbols		Paving	g and Grading		Abbreviations		Abbreviations Continued	
Existing			Existing	Proposed	Description	General	Abbreviations		Abbreviations continued	
G R	Proposed	Description			Flow Directional Arrow	AADT	Annual Average Daily Traffic	NO.	Number	KEIT
ч ę	4 Q	Centerline & Baseline of Survey or Construction	20		Pavement Marking Arrows	ABAN	Abandon	PC	Point Of Curvature	
		Building Access (ADA)	1	1	Stop Bar	ADJ	Adjust	PCC	Point Of Compound Curvature	301 East Atlantic Boulevard
\triangleright	\triangleright	Building Access (NON-ADA)		<u> </u>	Concrete Sidewalk	APPROX.	Approximate	P.G.L.	Profile Grade Line	Pompano Beach, FL 33060
(A-1) 24' WIDE	(A-1) 24' WIDE	Driveway Turnout Identification (Per FDOT Index 515) w/ Drive Width		**************************************	Jogging Path	A.C.	Asphalt Concrete	PI	Point Of Intersection	PH: (954) 788-3400
	(CR-A)	Sidewalk Curb Ramp (Per FDOT Index 304)			Pavement Area	ACCM PIPE	Asphalt Coated Corrugated Metal Pipe	POC	Point On Curve	
CR-A			177773		Existing Pavement/Concrete/ Landscape Removal Area	BIT.	Bituminous	POT	Point On Tangent	Florida Certificate of
N.	× × ×	Proposed Section Marker			Milling And Resurfacing	BC	Back Of Curb	PRC	Point Of Reverse Curvature	Authorization # - 7928
	P	Flag Pole			Detectable Warning (Truncated Domes) Per Florida	BD.	Bound	PROJ	Project	BID / CONTRACT NO. : 11-19-14-10
A	Δ	GPS Point	00000	00000	Accessibility Code	BL	Baseline	PROP	Proposed	
0000	0 0 0 0	Hay Bales			Soil Tracking Prevention Device	BLDG	Building	PT	Point Of Tangency	
8	ŝ	Mail Box	CARLER		age / Utilities	BM	Benchmark	PVC	Point Of Vertical Curvature	NO. DESCRIPTION DA
5.00	5.00	Major Contour Elevation	Existing	Proposed	Description	BO	By Others	PVI	Point Of Vertical Intersection	
.5.20	5.20		СВ	СВ	Catch Basin	BOS	Bottom Of Slope	PVT	Point Of Vertical Tangency	
		Minor Contour Elevation	0	0	Yard Drain	BR.	Bridge Corrugated Aluminum Pipe	PVMT	Pavement Paved Water Way	
		Parking Meter	СВ	CB	Exfiltration Trench	CAP		PWW	Paved Water Way	
P		Property Line		СВ	Catch Basin With Filter Fabric Insert	CBCI	Catch Basin Catch Basin With Curb Inlet	K	Radius Of Curvature Remove And Dispose	
	14.48	Grade Elevation			Curb Type 5		Cement Concrete	R&D	Reinforced Concrete Pipe	
	14.98	Top Of Curb Elevation/Pavement Elevation			Curb Type 6	CC CCM	Cement Concrete Masonry	RCP RD	Road	
— –	14.48				Pipe Culvert - Mitered End Section	CEM	Cement	RDWY	Roadway	
	— —	Soil Test Boring Hole			Pipe Culvert - Straight Endwall	CI	Curb Inlet	REM	Remove	
{ B.M. NO. 112	{ B.M. NO. 112	Survey Bench Mark	F		Pipe Culvert - U - Type Endwall	CIP	Cast Iron Pipe	REIVI	Retain	
Types			C			CLF	Chain Link Fence	RET WALL	Retaining Wall	
Existing	Proposed	Description	© E © 0 S		S Manhole - Communication, Electric, Gas, Drn, San Sew	CL	Centerline	ROW	Right Of Way	RESPONSIBILITY FOR THE USE OF TH
		County Bound			Valve Box - Gas, San. Sew, Water, Non-Potable Water	CMP	Corrugated Metal Pipe	RR	Railroad	PLANS PRIOR TO OBTAINING PERMI FROM ALL AGENCIES HAVING JURISDI
111111111	1111111111	Demolition Line				CO.	County	R&R	Remove And Reset	OVER THE PROJECT WILL FALL SOL UPON THE USER.
		Easement Line	ſ	1	22.5 degree Bend	CONC	Concrete	RT	Right	
		Property Line	1	1	45 degree Bend	CONT	Continuous	SHLD	Shoulder	
			1'	Г	90 degree Bend	CONST	Construction	SMH	Sewer Manhole	
		Limited Access Line/Non-Vehicular Access			Utility Crossing	CR GR	Crown Grade	ST	Street	
		Railroad	<u> </u>	•	Fire Hydrant	DHV	Design Hourly Volume	STA	Station	
		- Right Of Way		SP# 🕁	Proposed Bacteriological Sampling Point	DI	Drop Inlet	SSD	Stopping Sight Distance	HILLSBORO PINE
		Canal Or Drainage Ditch	PS#	PS #	Pump Station	DIA	Diameter	SW	Sidewalk	(BILL BLACK'S PLA
		Shore Line	GT	GT	Grease Trap	DIP	Ductile Iron Pipe	Т	Tangent Distance Of Curve/Truck %	WATER MAIN
mmm	-mmmm		ST	ST	Septic Tank	DWY	Driveway	TAN	Tangent	
C	C	Aerial Communication Line	(DW)	(DW)	Drainage Well	ELEV (OR EL.)	Elevation	TEMP	Temporary	EXTENSION
^	c_		MW	MW	Monitoring Well	EMB	Embankment Edge Of Pavement	TC	Top Of Curb	
^		 Underground Communication Line Underground Storm Drain Line (Double Line 24" And Over 		0	Water Well	EOP EXIST (OR EX)		TOS	Top Of Slope	CITY OF COCON
SD _x	SD			(0)	Sanitary Sewer Cleanout	EXC	Excavation	TSV	Tapping Sleeve and Valve	CREEK
SS _x	SS	Underground Sanitary Line	BFP (NHN)	BFP	Back Flow Preventor	F&C	Frame And Cover	ТҮР	Typical	
— E _x — —	E	Aerial Electric Line	J	Q	Junction Box	F&G	Frame And Grate	UP	Utility Pole	00415
— — E _x —	— — E –	Underground Electric	E	E	Electric Handhole	FDN.	Foundation	VAR	Varies	SCALE: AS I
W _x	W	Underground Water Line	ELEC	ELEC	Electric Meter	FLDSTN	Fieldstone	VERT	Vertical Vertical Curve	DATE ISSUED: NOVEMBE DRAWN BY:
NPW _x	NPW	Underground Non Potable Water Line	Ŵ	<w></w>	Water Meter	GAR	Garage	VC WCR	Wheel Chair Ramp	DESIGNED BY:
	FM	Underground Force Main	\bowtie	\bowtie	Gate Valve	GD	Ground	WIP	Wrought Iron Pipe	CHECKED BY:
			\rightarrow	\rightarrow	Guy wire	GI	Gutter Inlet	WM	Water Meter/Water Main	
× ×		Gate Chain Link Fence	0-0	0-0	Light Pole	GIP	Galvanized Iron Pipe	X-SECT	Cross Section	
х Х	X X				Relocated Or Adjusted Light Pole	GRAN	Granite	IN OLOT		WHESA THIS
0-0	0-0-0	Wood Fence	þ	Ó	Wood Power Pole	GRAV	Gravel		UNITES A THIELE	ICENSE
× ×	<u> </u>	Metal Rail Fence	-@-		Concrete Utility Pole	GRD	Guard		TIT PULLE ENSE	No. 33256 04/01/2020
SF	SF	Silt Fence	©	©	Traffic Signal Pole (Concrete, Wood, Metal)	GV	Gate Valve		=* NO: 3840 NE	■: ★ :=
		Staked Turbidity Barrier	-	-	Pedestrian Signal Head (Pole Or Pedestal Mounted)	HDPE	High Density Polyethylene		The second	STATE OF
		Turbidity Barrier	-0-	-0-	Post Mounted Sign	HDW	Headwall		FLORIOT BUILT	SOMAL ENGLIS
	ooo	-	- 		Street Sign	HMA	Hot Mix Asphalt		Min Con 2/2/	and the second
			t i	ici .	High Mast Lighting Tower	HOR	Horizontal		() ()	JAMES A. THIELE, P.E
		Roadway Centennie		38	Controller Cabinet (Base Mounted)	HYD	Hydrant			FLORIDA REG. NO. 332
		2 - 4 Skip			Controller Cabinet (Pole Mounted)	INV	Invert			SHEET TITLE
		- 3 - 9 Skip		<	Traffic Signal Head (Span Wire Mounted)	JCT	Junction Length Of Curve			
		- 6- 10 Skip			Traffic Signal Head (Pedestal Mounted)	L I P	Leach Basin			
		— 10 - 30 Skip	•	•	Traffic Signal Head (Mast Arm Mounted)	LD I D	Light Pole			LEGEND
		- 10 - 10 - 20 Skip			Coordinate values shown on proposed improvements	LP IT	Light Fole			
		= Curb		N: 623025.4322	are relative to the coordinate values indicated on the	MAX	Maximum			
				E: 850262.1786	Right-of-Way, property corners or reference monument	MAX	Mailbox			
	1	Curb And Gutter				MEG	Match Existing Grade			SHEET NUMBER
Existing	Proposed					MH	Manhole			GI-003
-		Description				MIN	Minimum			
	0	Bush				NIC	Not In Contract			PERMIT SET
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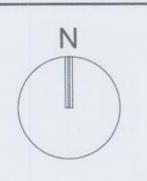
HILLSBORO PINES (BILL BLACK'S PLAT) WATER MAIN EXTENSION







B.C.H.C.E.D. REF. #210212101



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BAR SCALE ABOVE.

301 East Atlantic Boulevard Pompano Beach, FL 33060

PH: (954) 788-3400

Florida Certificate of

Authorization # - 7928

BID / CONTRACT NO. : 11-19-14-10

REVISIONS NO. DESCRIPTION DATE

1 50% CD COMMENTS 11/20/2020 2 90% CD COMMENTS 12/09/2020

RESPONSIBILITY FOR THE USE OF THESE

PLANS PRIOR TO OBTAINING PERMITS

FROM ALL AGENCIES HAVING JURISDICTION

OVER THE PROJECT WILL FALL SOLELY

UPON THE USER.

HILLSBORO PINES

NOTES 1. REFER TO SHEETS GI-001 THROUGH GI-002 FOR ADDITIONAL NOTES.

- 2. CONTRACTOR SHALL VERIFY LOCATION, SIZE, AND MATERIAL OF EXISTING UTILITIES PRIOR TO CONSTRUCTION AND ADJUST AS NEEDED (TYP.)
- 3. CONTRACTOR SHALL PROVIDE CROSSING INFORMATION OF ALL CROSSINGS INCLUDING FINISHED GRADE ELEVATION (FG), BOTTOM OF PIPE (BOP), TOP OF PIPE (TOP), AND CLEARANCE (CLR) (TYP).
- 4. UTILITY CROSSING INFORMATION NOT SHOWN ON THIS PLAN CAN BE FOUND ON THE PROFILES ON SHEETS CU-201 & CU-202.
- 5. HORIZONTAL AND VERTICAL SEPARATIONS BETWEEN WATER AND SEWER SHALL BE IN COMPLIANCE WITH CITY OF COCONUT CREEK STANDARDS.
- 6. THE CONTRACTOR SHALL CONTACT FPL AT A MINIMUM OF 30 DAYS PRIOR TO CONSTRUCTION ACTIVITIES FOR INTERRUPTING SERVICE, DE-ENERGIZING, AND RELOCATING ANY EXISTING OVERHEAD WIRES. INTERRUPTION OF SERVICE DURATION WILL BE DISCUSSED DURING MANDATORY PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR, FPL, AND THE ENGINEER OF RECORD. SHOULD THE INTERRUPTION OF SERVICE AFFECT THE EXISTING STREET LIGHTING, THE CONTRACTOR SHALL PROVIDE TEMPORARY STREET LIGHTING AS REQUIRED BY THE GOVERNING AGENCIES.
- 7. ONE(1) BLUE AND ONE(1) WHITE REFLECTIVE PAVEMENT MARKERS FOR IDENTIFICATION OF THE HYDRANT AND ITS VALVE LOCATION SHALL BE INSTALLED ON THE CENTER OF THE ADJACENT PAVED DRIVE LANE TO THE HYDRANT; MARKERS SHALL BE SPACED 1-FT APART, PERPENDICULAR TO THE ROAD CENTERLINE
- 8. WATER SERVICES AND METERS WERE LOCATED BASED ON THE BEST AVAILABLE INFORMATION FOR EACH PROPERTY. THE PREFERENCE IS FOR THE WATER SERVICES AND METERS TO BE LOCATED OUTSIDE OF DRIVEWAYS. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS PRIOR TO CONSTRUCTION ACTIVITIES TO FIELD VERIFY EXISTING CONDITIONS AND DETERMINE ADJUSTMENTS TO PROPOSED METER LOCATION. ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED AT SUFFICIENT DEPTH AND MUST COMPLY WITH CITY OF COCONUT CREEK STANDARD DETAILS. IF ANY ADJUSTMENTS ARE TO BE MADE TO THE WATER SERVICE/METER LOCATIONS, THE CONTRACTOR SHALL PROVIDE NOTIFICATION TO THE ENGINEER OF RECORD IN WRITING.
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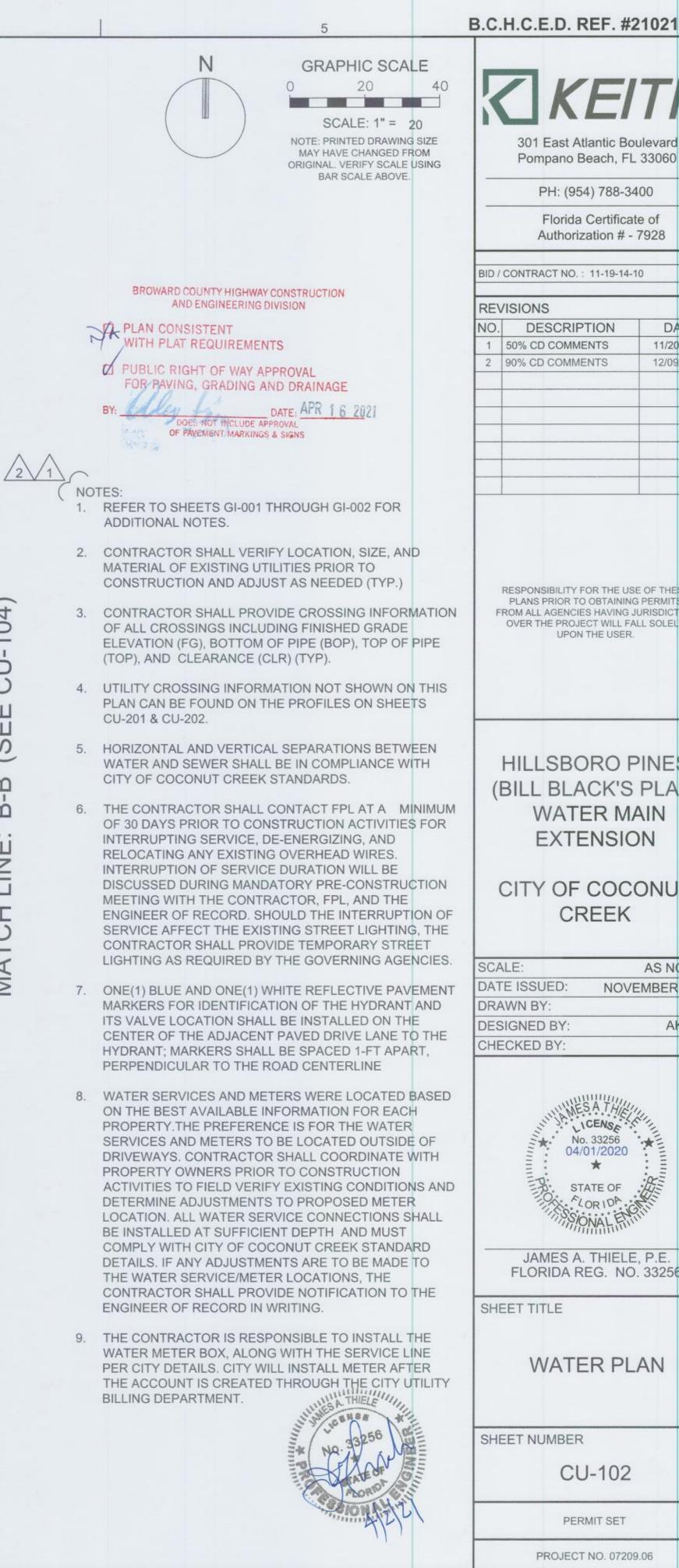




PERMIT SET PROJECT NO. 07209.06



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RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER. HILLSBORO PINES (BILL BLACK'S PLAT)

WATER MAIN EXTENSION

CITY OF COCONUT CREEK



B.C.H.C.E.D. REF. #210212101

Florida Certificate of

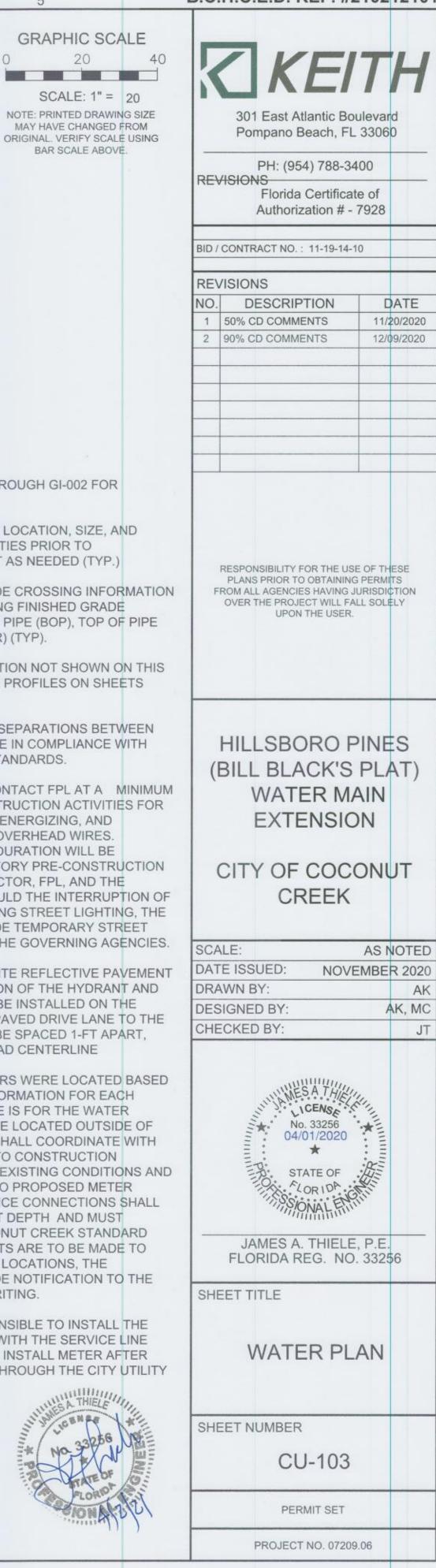
DATE

11/20/2020

12/09/2020



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NOTES: 1. REFER TO SHEETS GI-001 THROUGH GI-002 FOR ADDITIONAL NOTES.

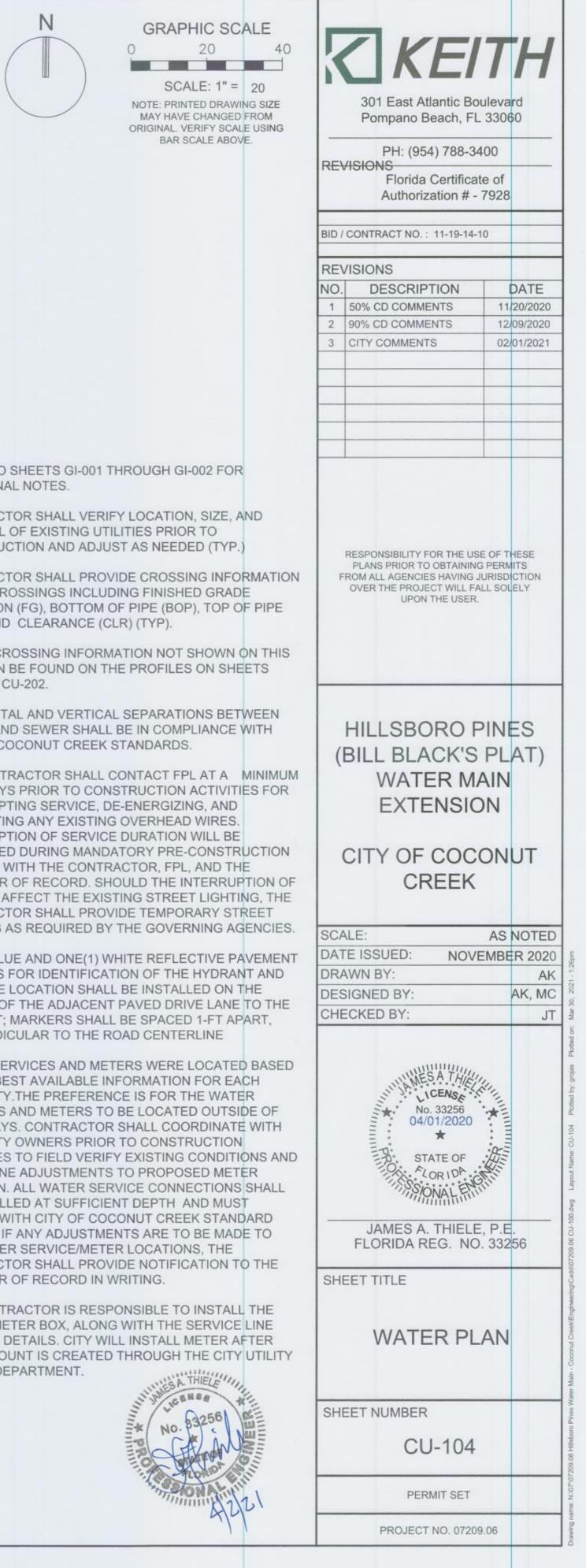
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- 2. CONTRACTOR SHALL VERIFY LOCATION, SIZE, AND MATERIAL OF EXISTING UTILITIES PRIOR TO CONSTRUCTION AND ADJUST AS NEEDED (TYP.)
- CONTRACTOR SHALL PROVIDE CROSSING INFORMATION OF ALL CROSSINGS INCLUDING FINISHED GRADE ELEVATION (FG), BOTTOM OF PIPE (BOP), TOP OF PIPE (TOP), AND CLEARANCE (CLR) (TYP).
- 4. UTILITY CROSSING INFORMATION NOT SHOWN ON THIS PLAN CAN BE FOUND ON THE PROFILES ON SHEETS CU-201 & CU-202.
- 5. HORIZONTAL AND VERTICAL SEPARATIONS BETWEEN WATER AND SEWER SHALL BE IN COMPLIANCE WITH CITY OF COCONUT CREEK STANDARDS.
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B.C.H.C.E.D. REF. #210212101

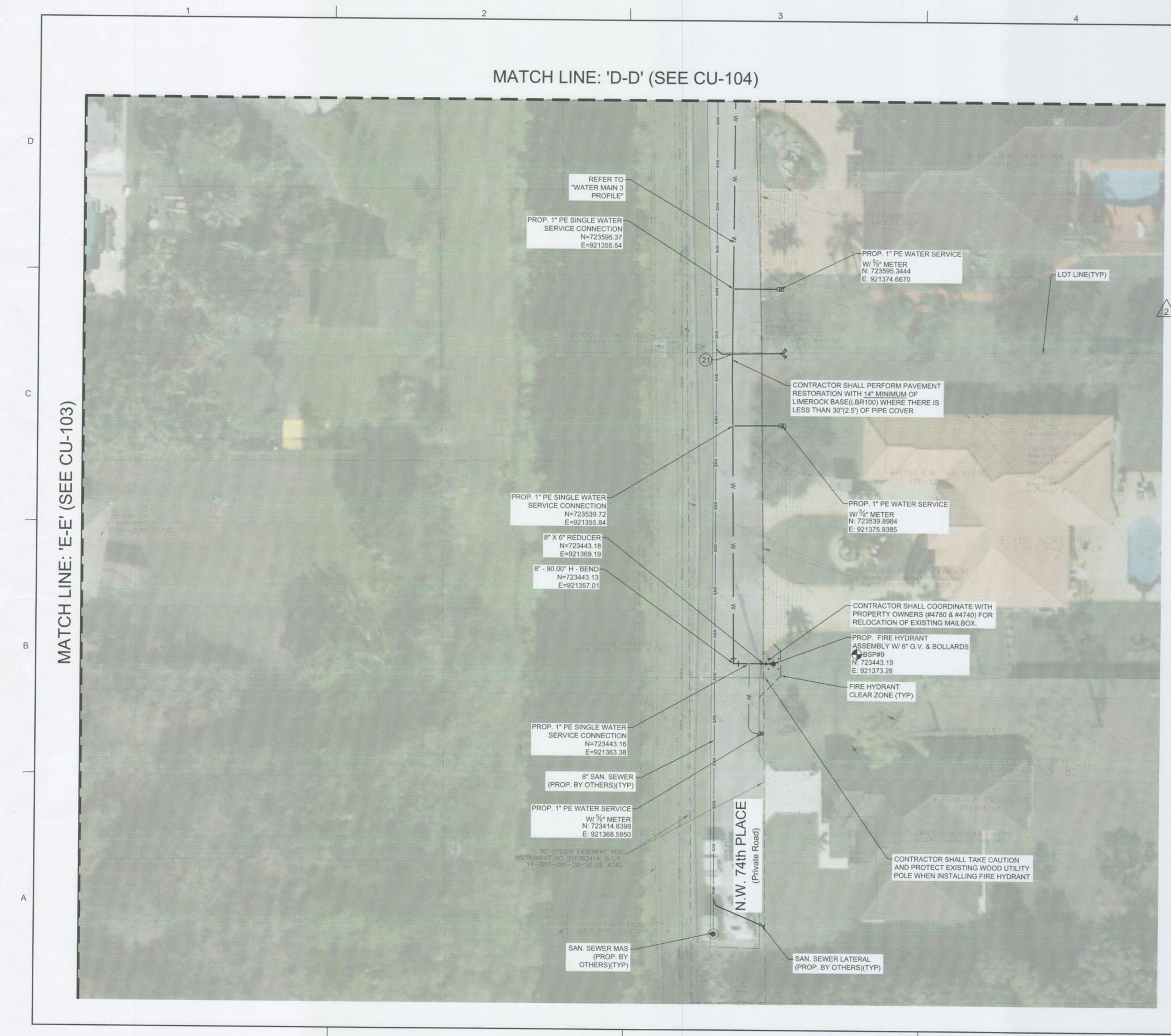


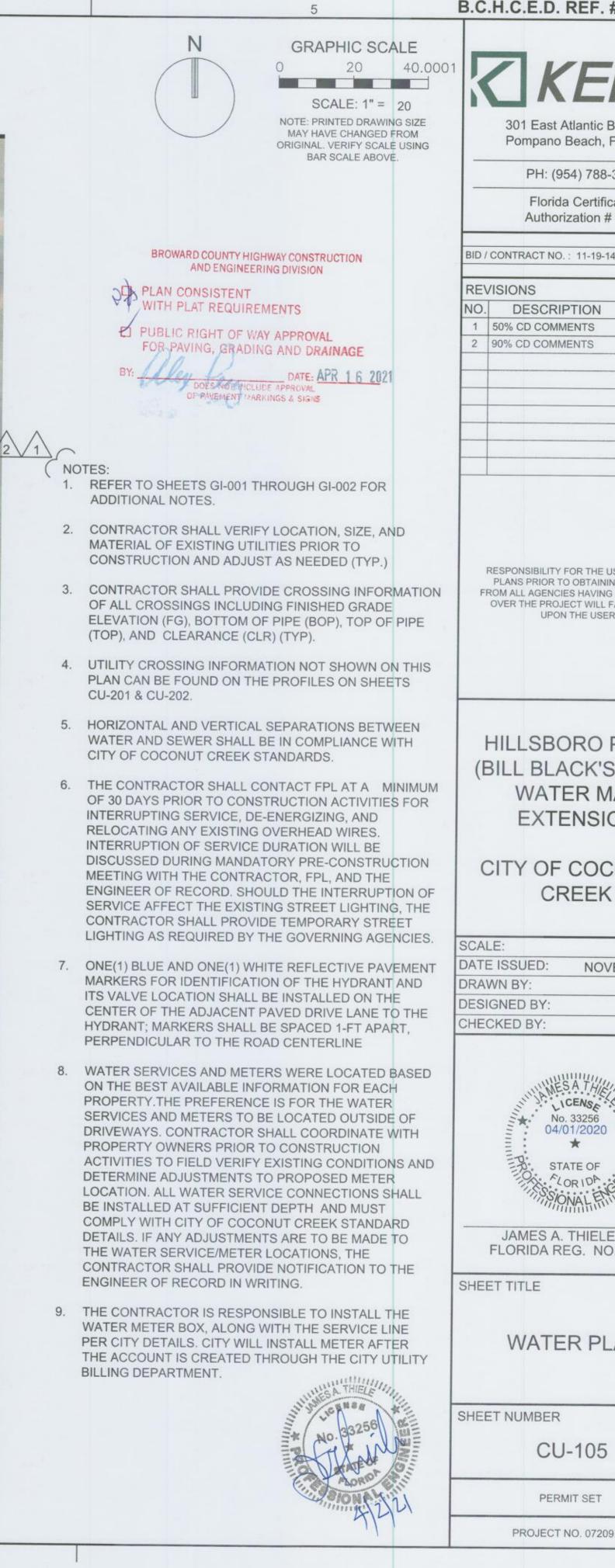
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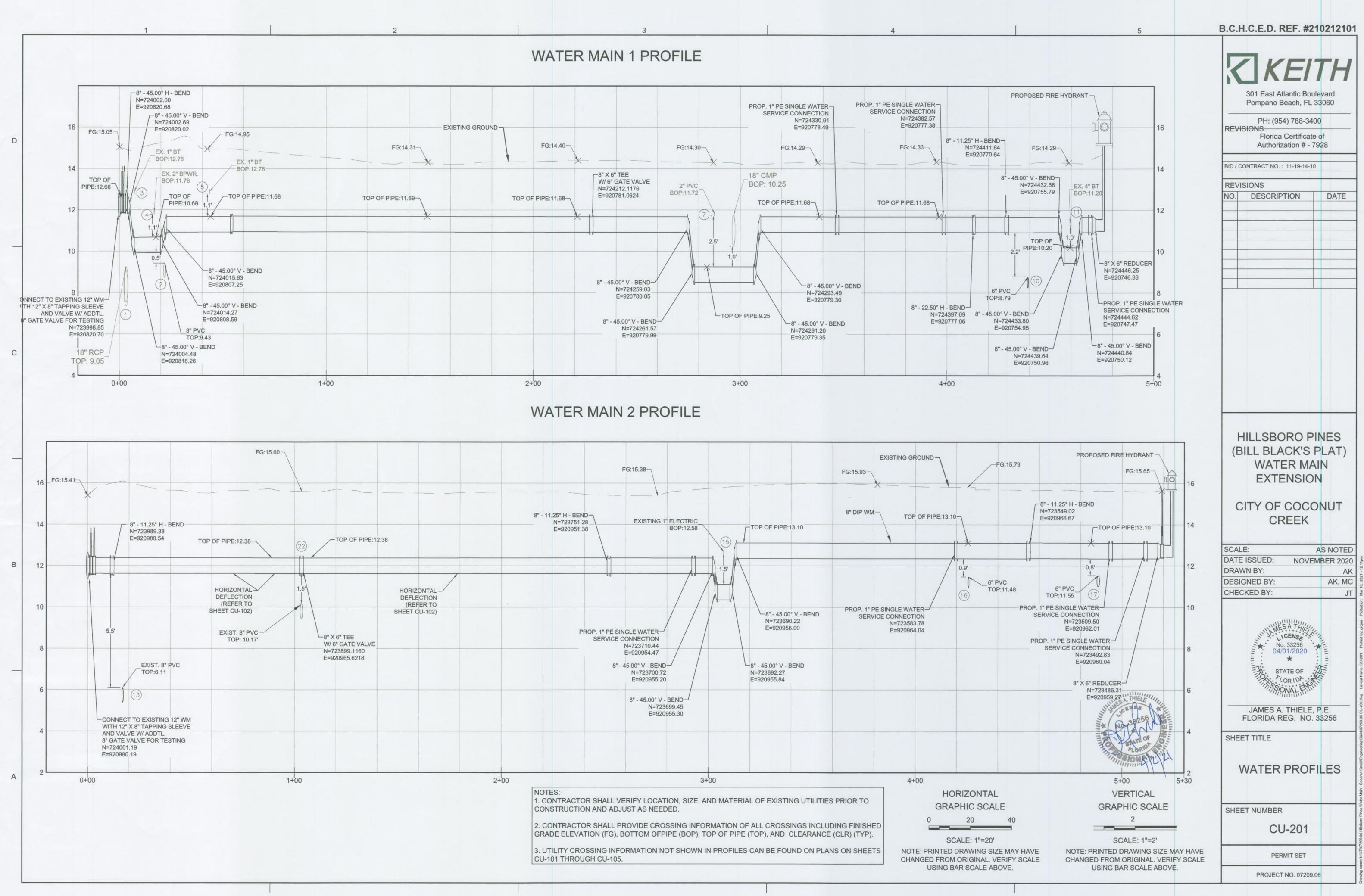


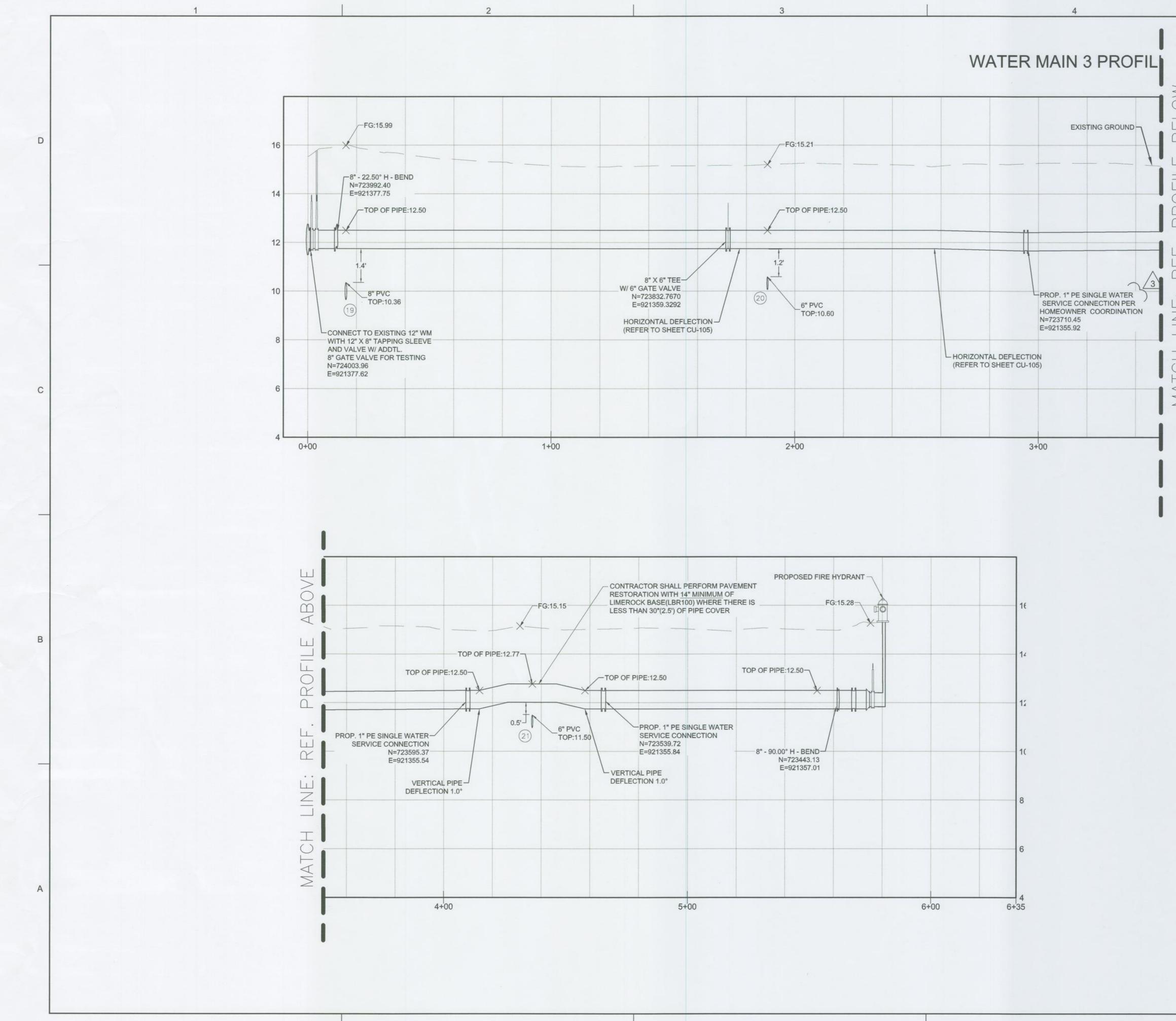
B.C.H.C.E.D. REF. #210212101 301 East Atlantic Boulevard Pompano Beach, FL 33060 PH: (954) 788-3400 Florida Certificate of Authorization # - 7928 BID / CONTRACT NO. : 11-19-14-10 REVISIONS NO. DESCRIPTION DATE 1 50% CD COMMENTS 11/20/2020 2 90% CD COMMENTS 12/09/2020 RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER. HILLSBORO PINES (BILL BLACK'S PLAT) WATER MAIN EXTENSION CITY OF COCONUT CREEK AS NOTED DATE ISSUED: NOVEMBER 2020 AK DESIGNED BY: AK, MC CHECKED BY: JT CENSE No. 33256 04/01/2020 * STATE OF CORIDA JAMES A. THIELE, P.E. FLORIDA REG. NO. 33256 WATER PLAN

SHEET NUMBER

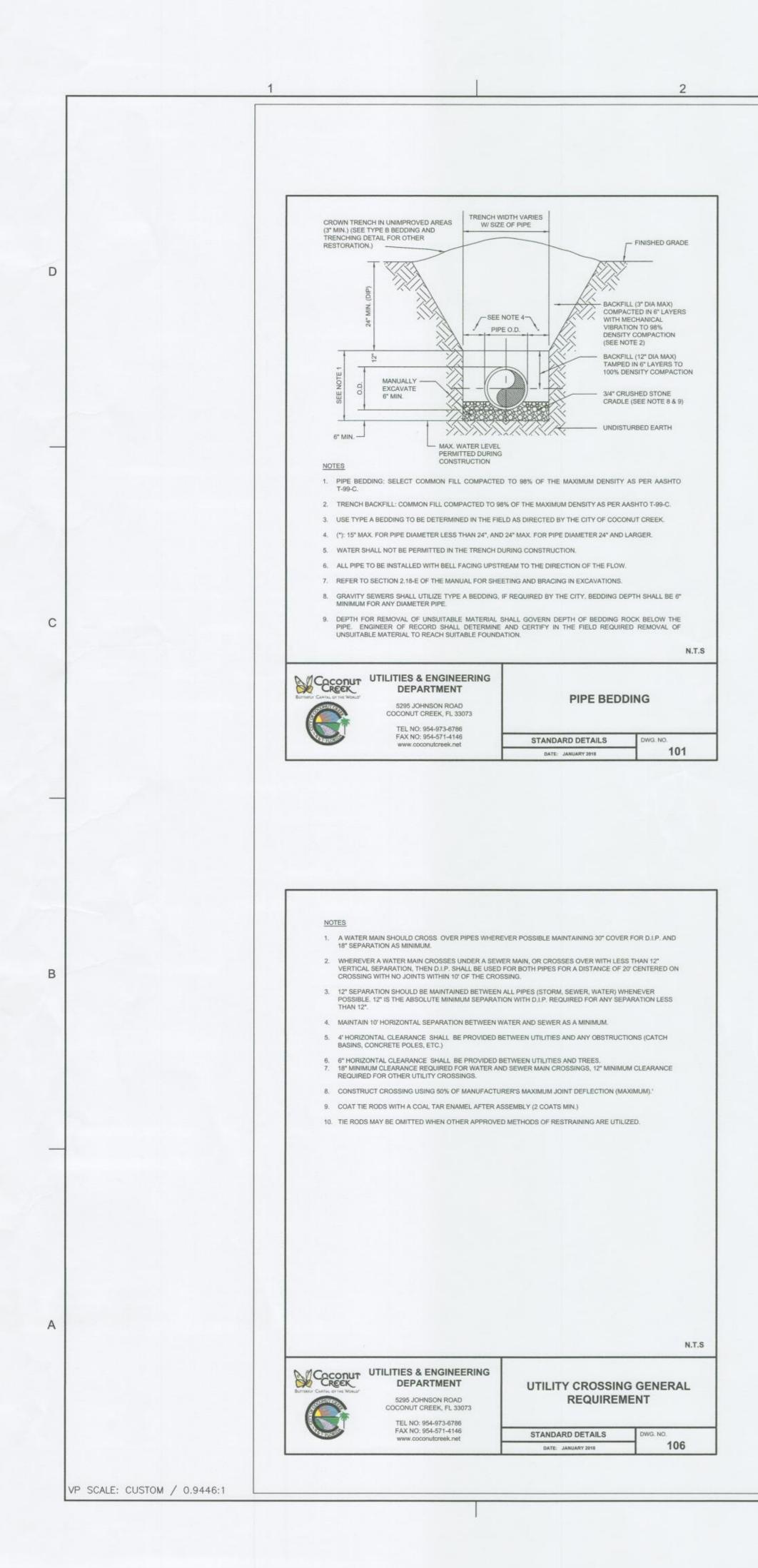
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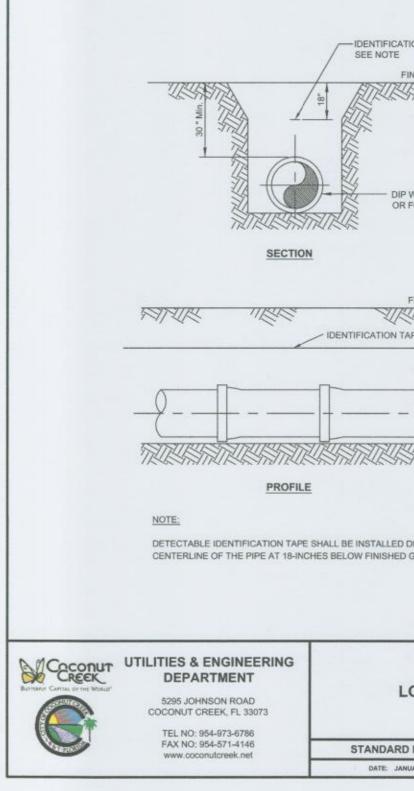


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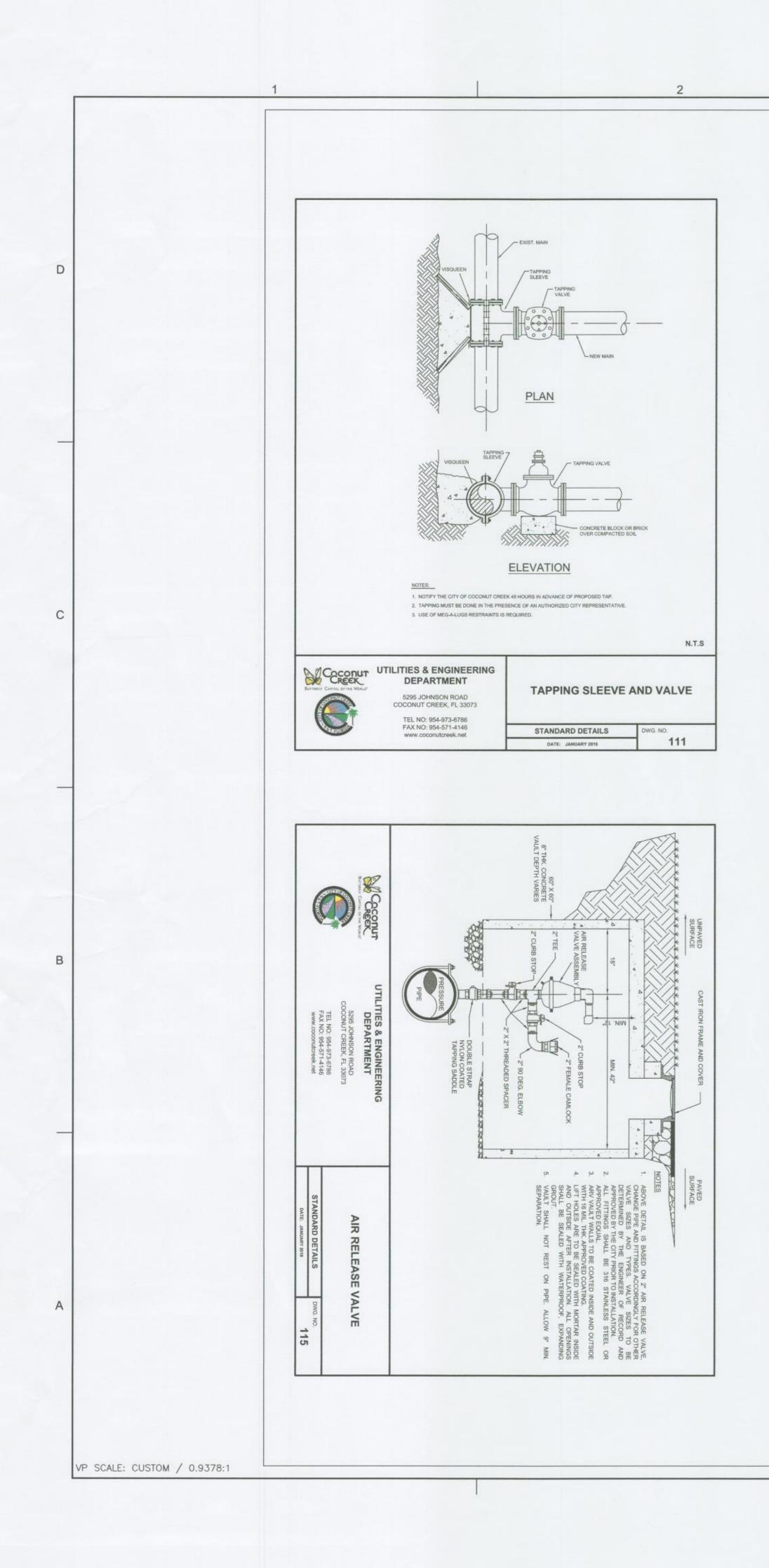
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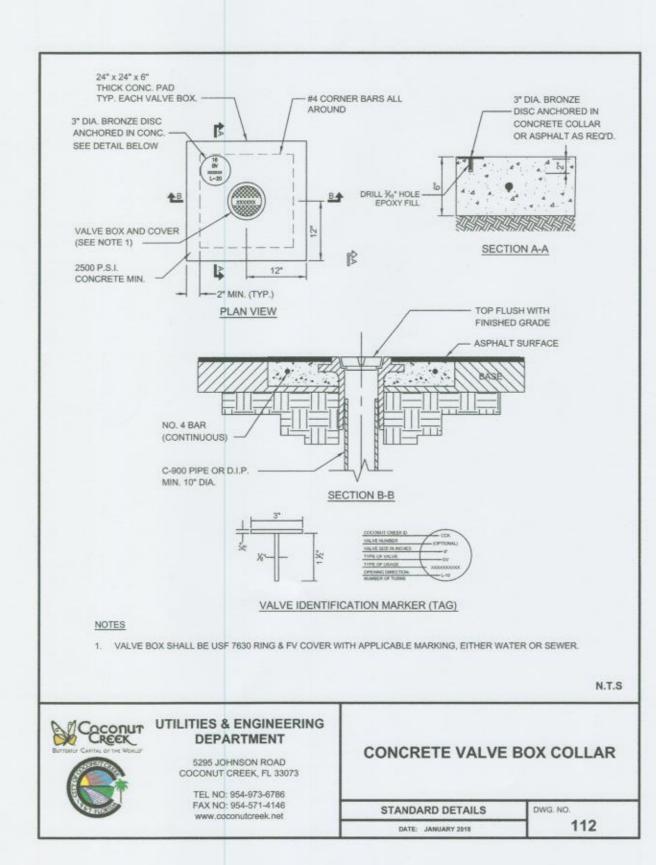


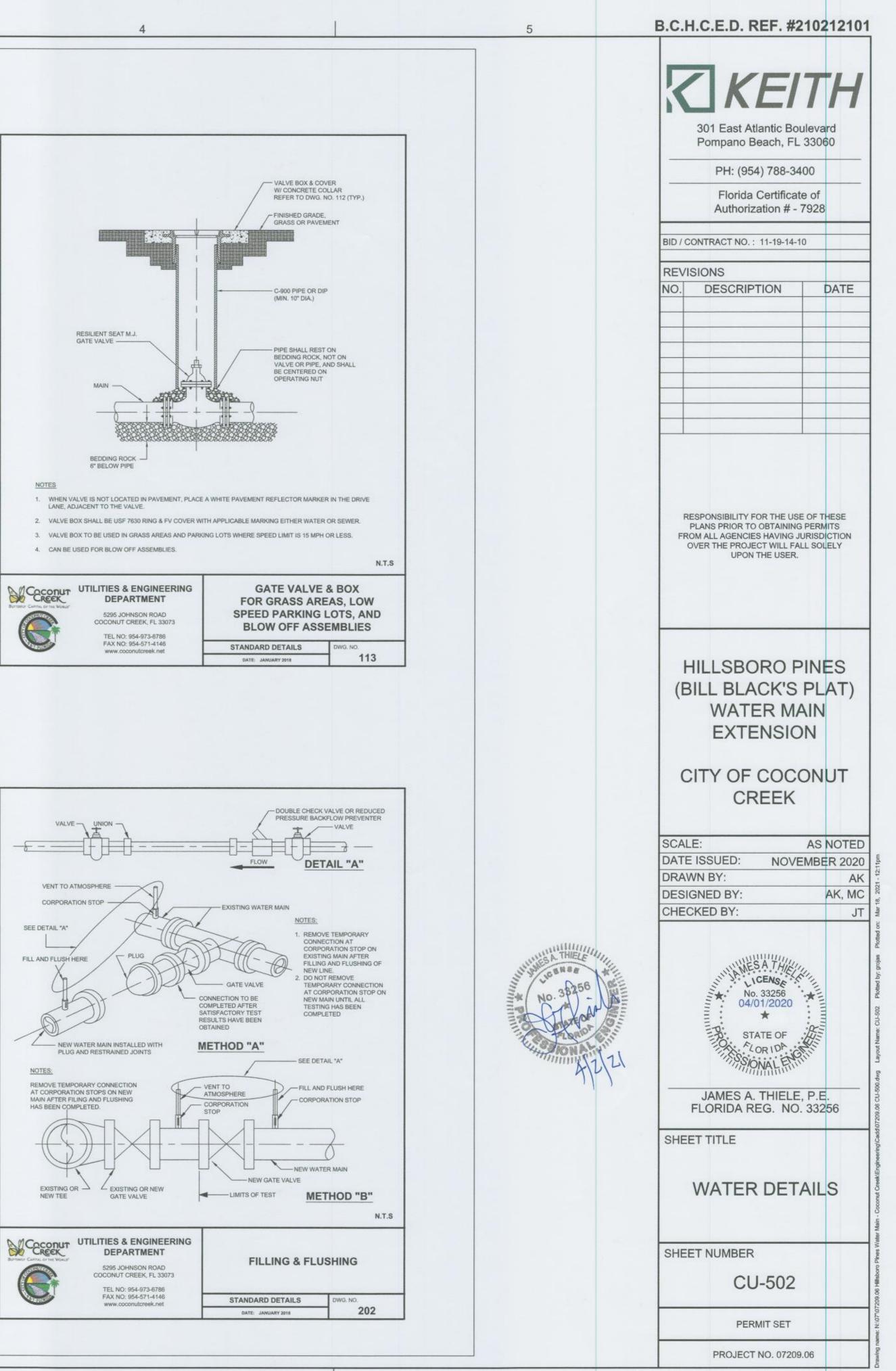
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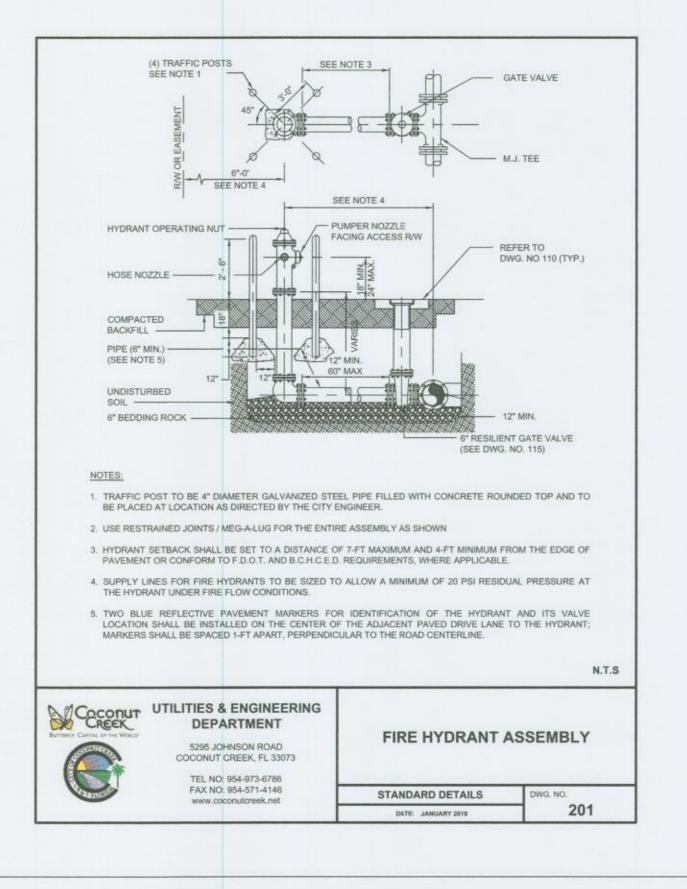
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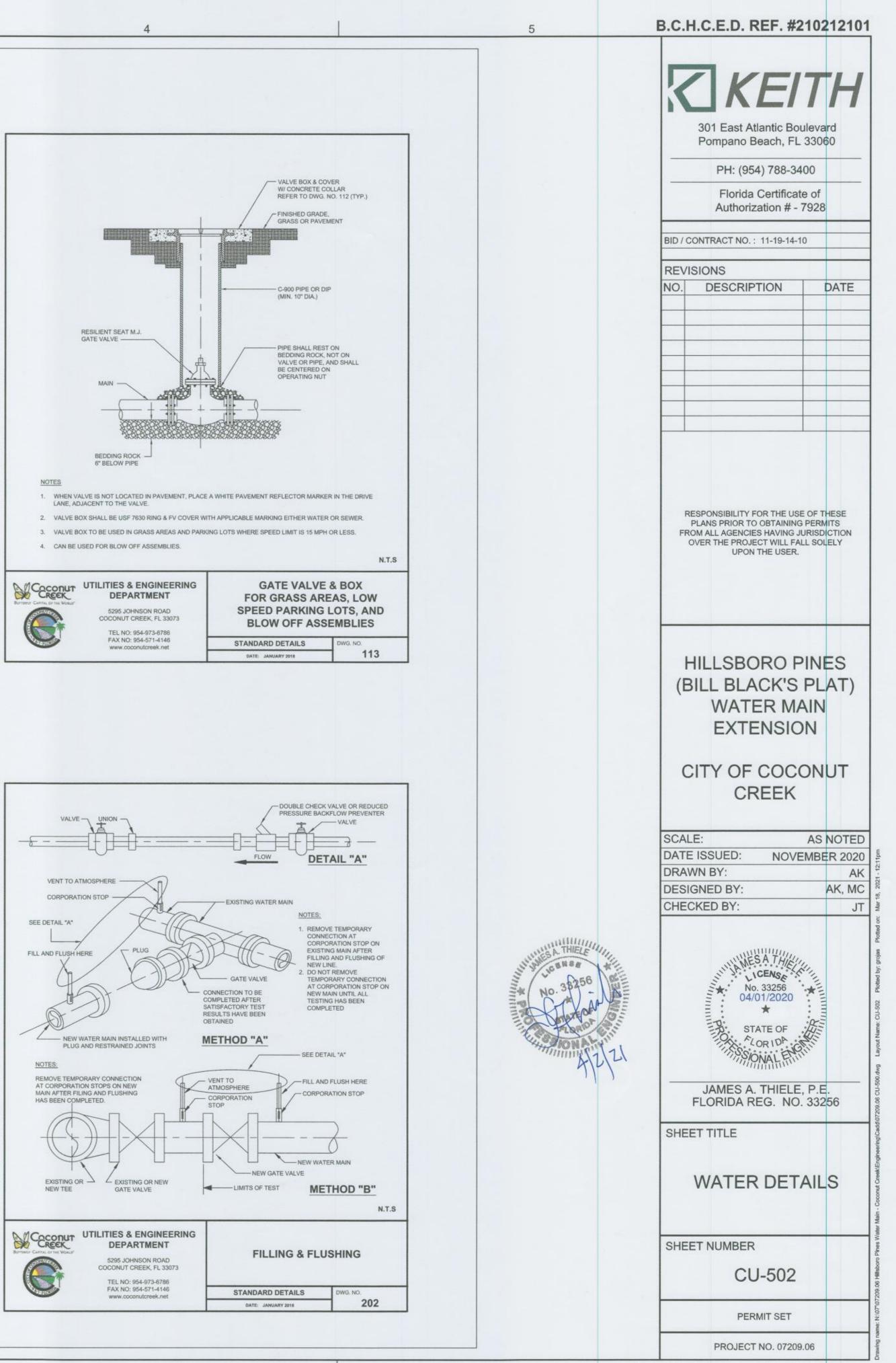
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		301 East Atlantic Boulevard Pompano Beach, FL 33060
		PH: (954) 788-3400
		Florida Certificate of
		Authorization # - 7928
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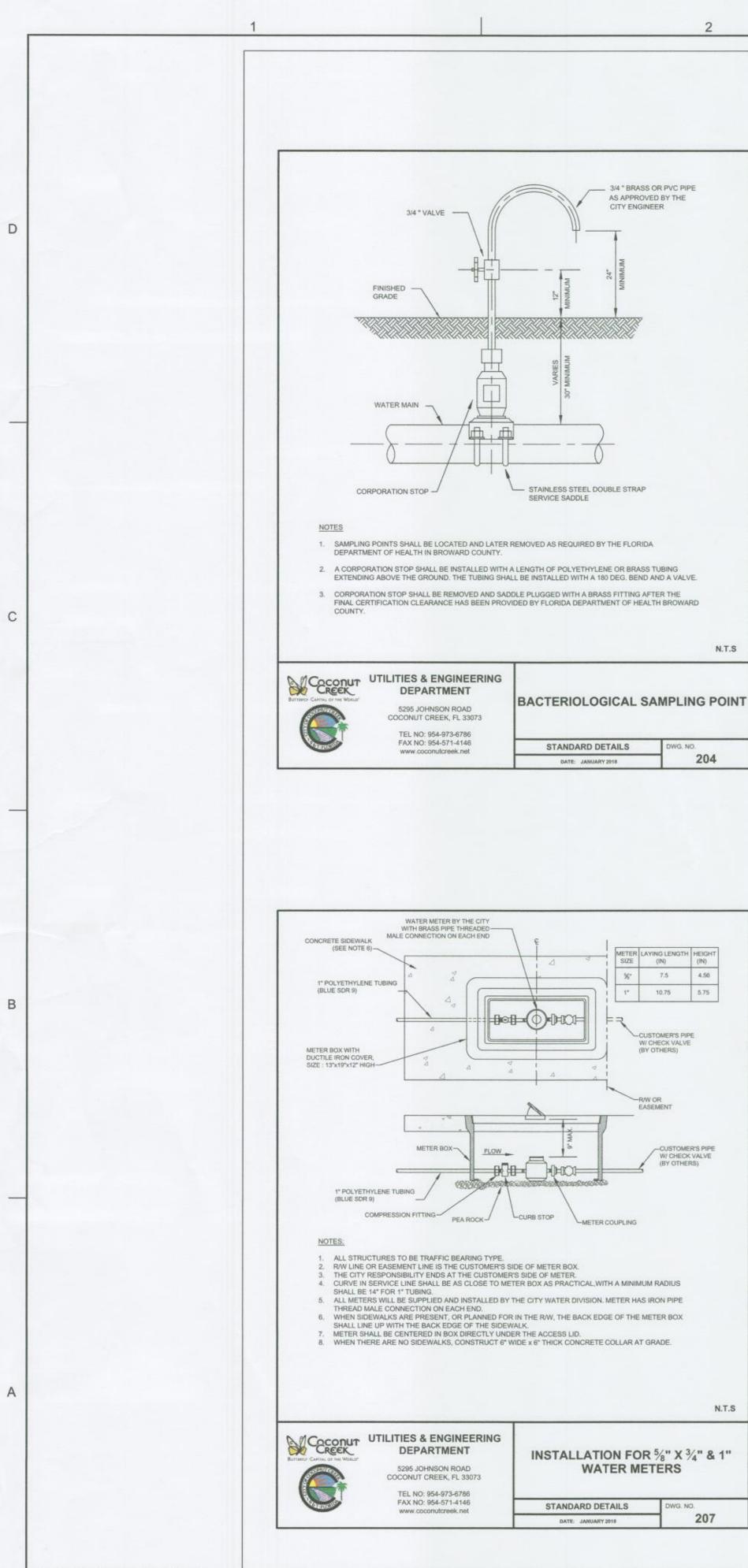




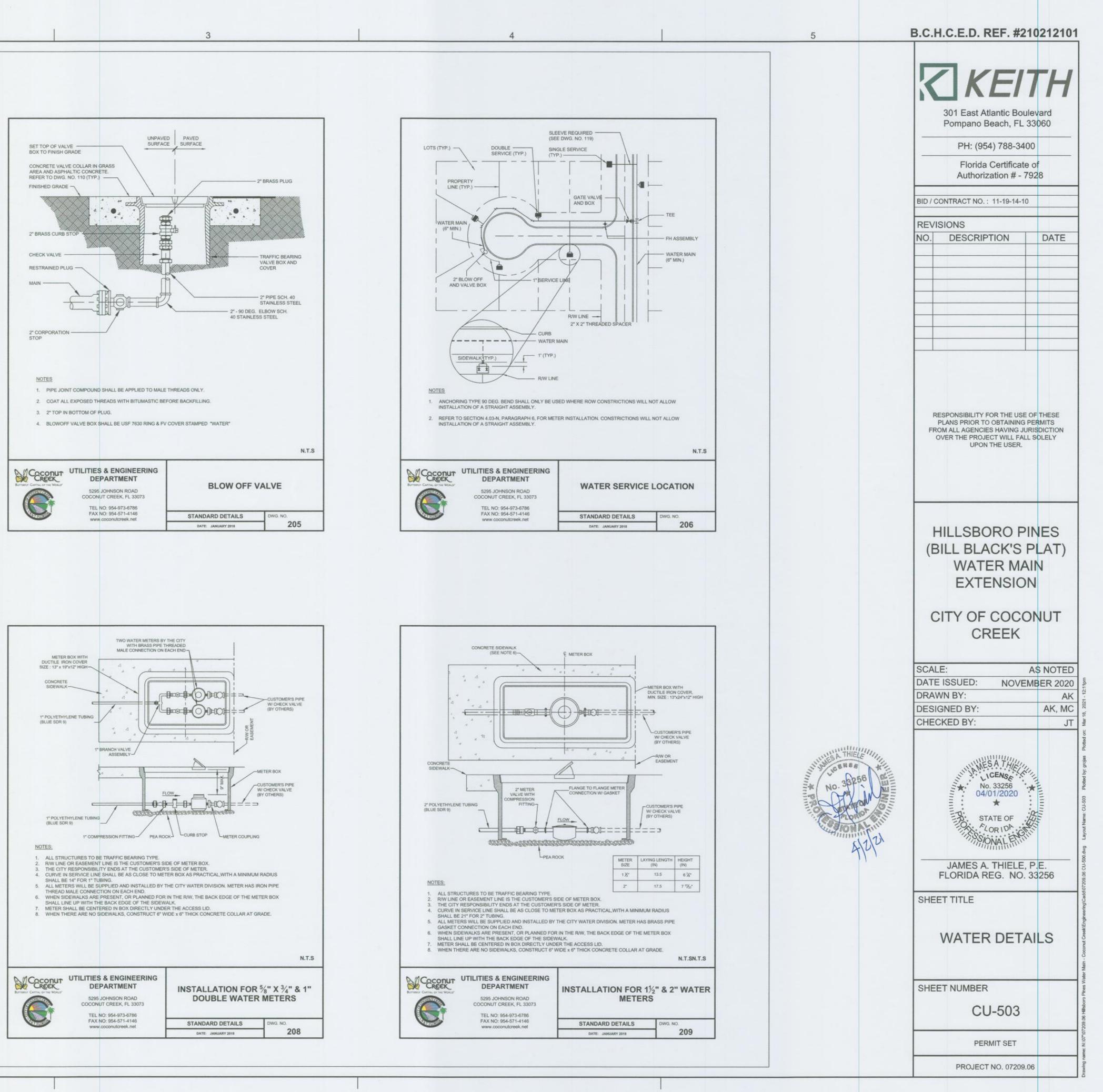








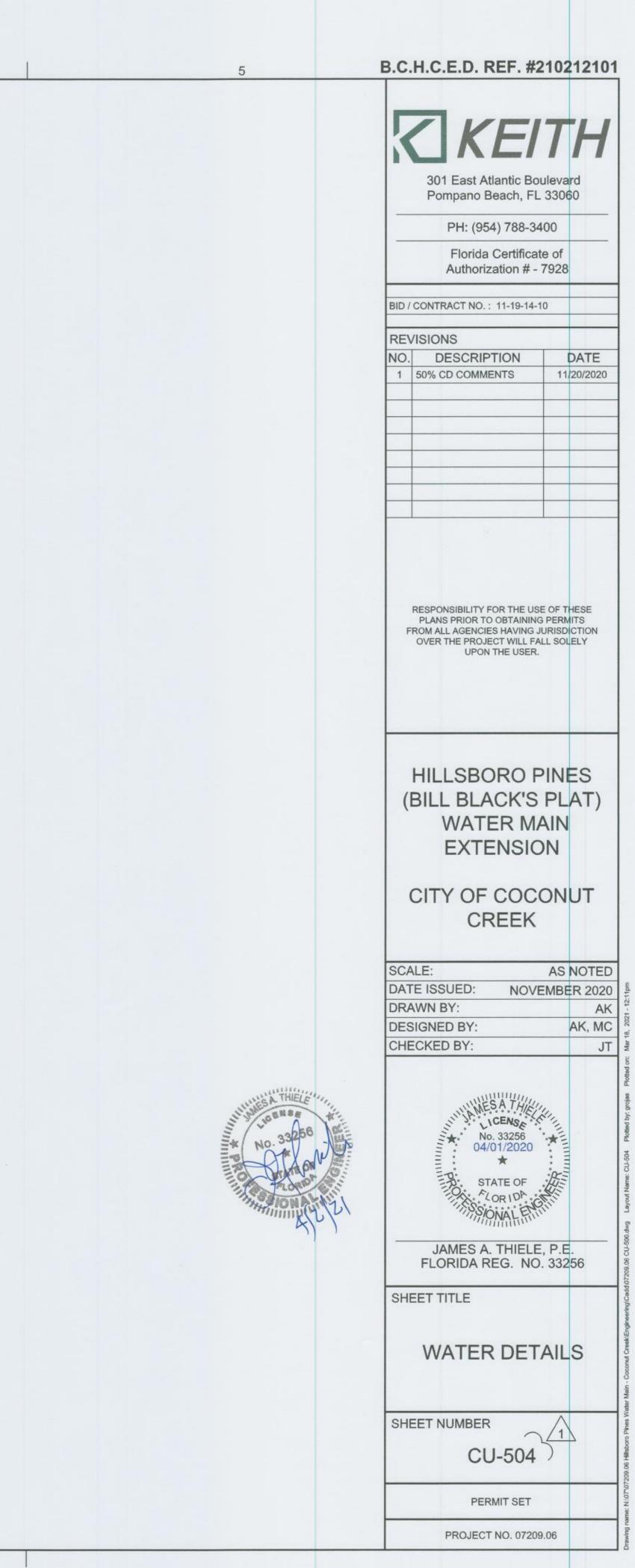
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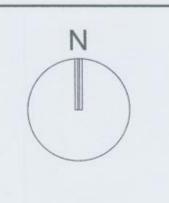


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B.C.H.C.E.D. REF. #210212101



301 East Atlantic Boulevard Pompano Beach, FL 33060

PH: (954) 788-3400

Florida Certificate of

2 PER BCHCED COMMENTS 25/03/2021

DATE

11/20/2020

Authorization # - 7928

BID / CONTRACT NO. : 11-19-14-10

REVISIONS NO. DESCRIPTION

1 50% CD COMMENTS

SOD RESTORATION

FULL DEPTH PAVEMENT RESTORATION

LEGEND

MILL AND RESURFACE (1" AVG. DEPTH)

NOTES:

- 1. REFER TO SHEETS GI-001 THROUGH GI-003 AND CU-101 THROUGH CU-108 FOR ADDITIONAL NOTES AND LEGEND.
- 2. CONTRACTOR TO DETERMINE IN FIELD IF EXISTING PAVEMENT DEPTH IS LESS THAN 1" AND ADVISE ENGINEER ACCORDINGLY.
- 3. LIMITS OF PAVEMENT RESTORATION ARE AN APPROXIMATION. THE CONTRACTOR SHALL TIE TO EXISTING GRADE BY EVENLY SLOPING FROM THE CLOSEST PROPOSED GRADE TO EXISTING GRADE AT LIMITS OF CONSTRUCTION. ALL AREAS SHALL BE GRADE TO DRAIN. SCARIFY LIMEROCK AND/OR OVERBUILD PAVEMENT AR REQUIRED.
- 4. FINAL LIFT FOR ALL PAVEMENT SECTIONS SHALL BE LAID CONCURRENTLY.



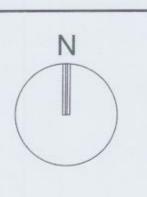
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HILLSBORO PINES (BILL BLACK'S PLAT) WATER MAIN EXTENSION





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BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

PLAN CONSISTENT WITH PLAT REQUIREMENTS PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKINGS & SIGNS B.C.H.C.E.D. REF. #210212101



PH: (954) 788-3400

Florida Certificate of Authorization # - 7928

BID / CONTRACT NO. : 11-19-14-10

REVISIONS NO. DESCRIPTION DATE

50% CD COMMENTS 11/20/2020 2 PER BCHCED COMMENTS 03/08/2021 PER BCHCED COMMENTS 25/03/2021

RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER.

HILLSBORO PINES (BILL BLACK'S PLAT) WATER MAIN EXTENSION

CITY OF COCONUT CREEK

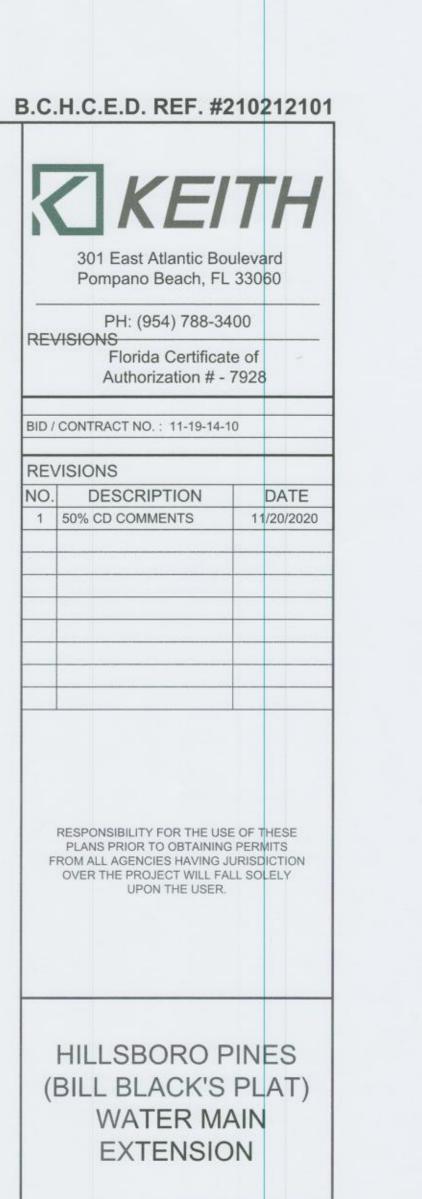


PROJECT NO. 07209.06





- NOTES:
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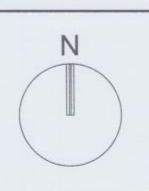












GRAPHIC SCALE 0 20 40.0001 SCALE: 1" = 20 NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

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B.C.H.C.E.D. REF. #210212101



301 East Atlantic Boulevard Pompano Beach, FL 33060

PH: (954) 788-3400

DATE

11/20/2020

Florida Certificate of Authorization # - 7928

BID / CONTRACT NO. : 11-19-14-10

NO. DESCRIPTION

1 50% CD COMMENTS

REVISIONS

SOD RESTORATION

FULL DEPTH PAVEMENT RESTORATION

LEGEND

MILL AND RESURFACE (1" AVG. DEPTH)

NOTES:

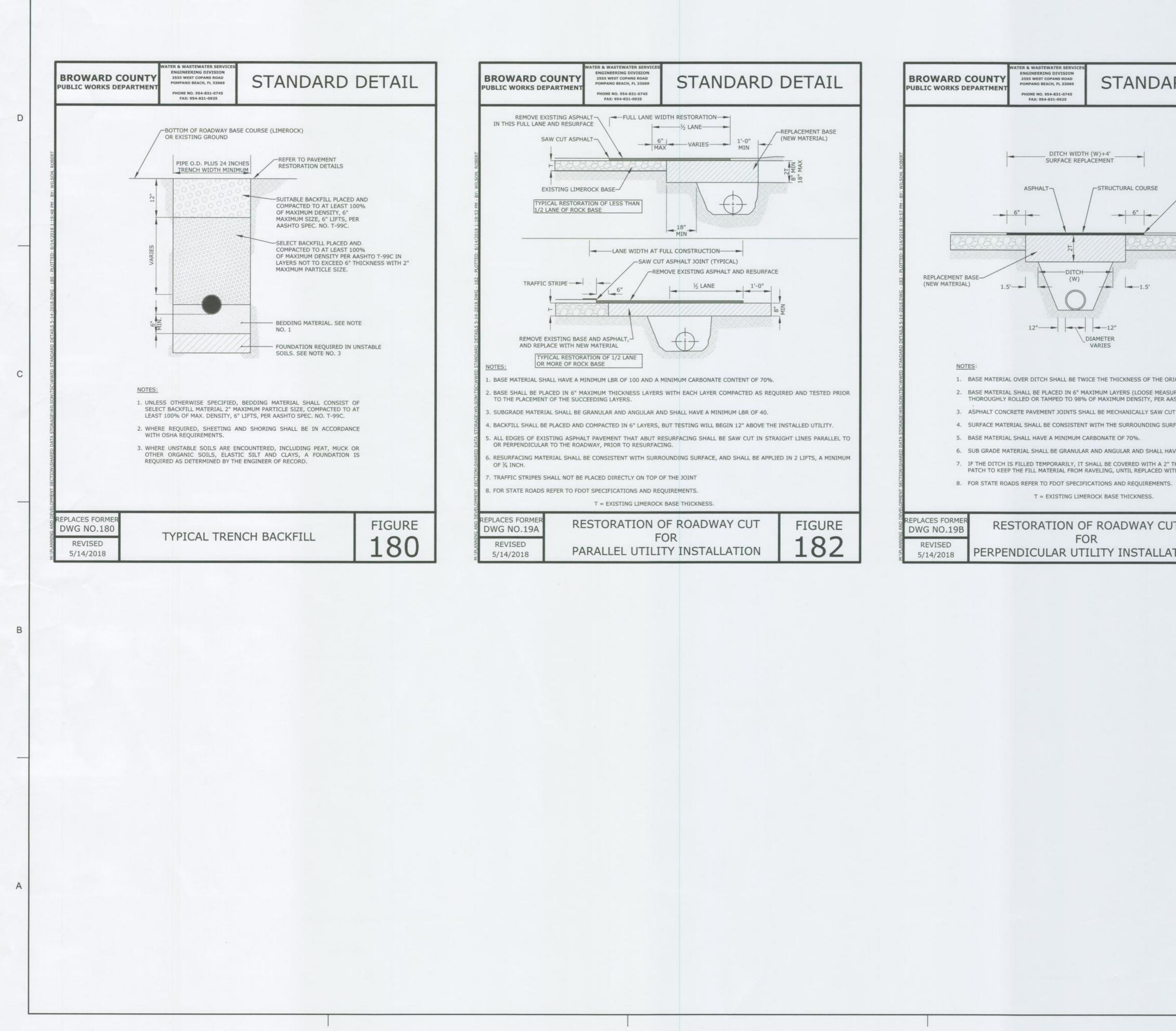
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HILLSBORO PINES (BILL BLACK'S PLAT) WATER MAIN EXTENSION





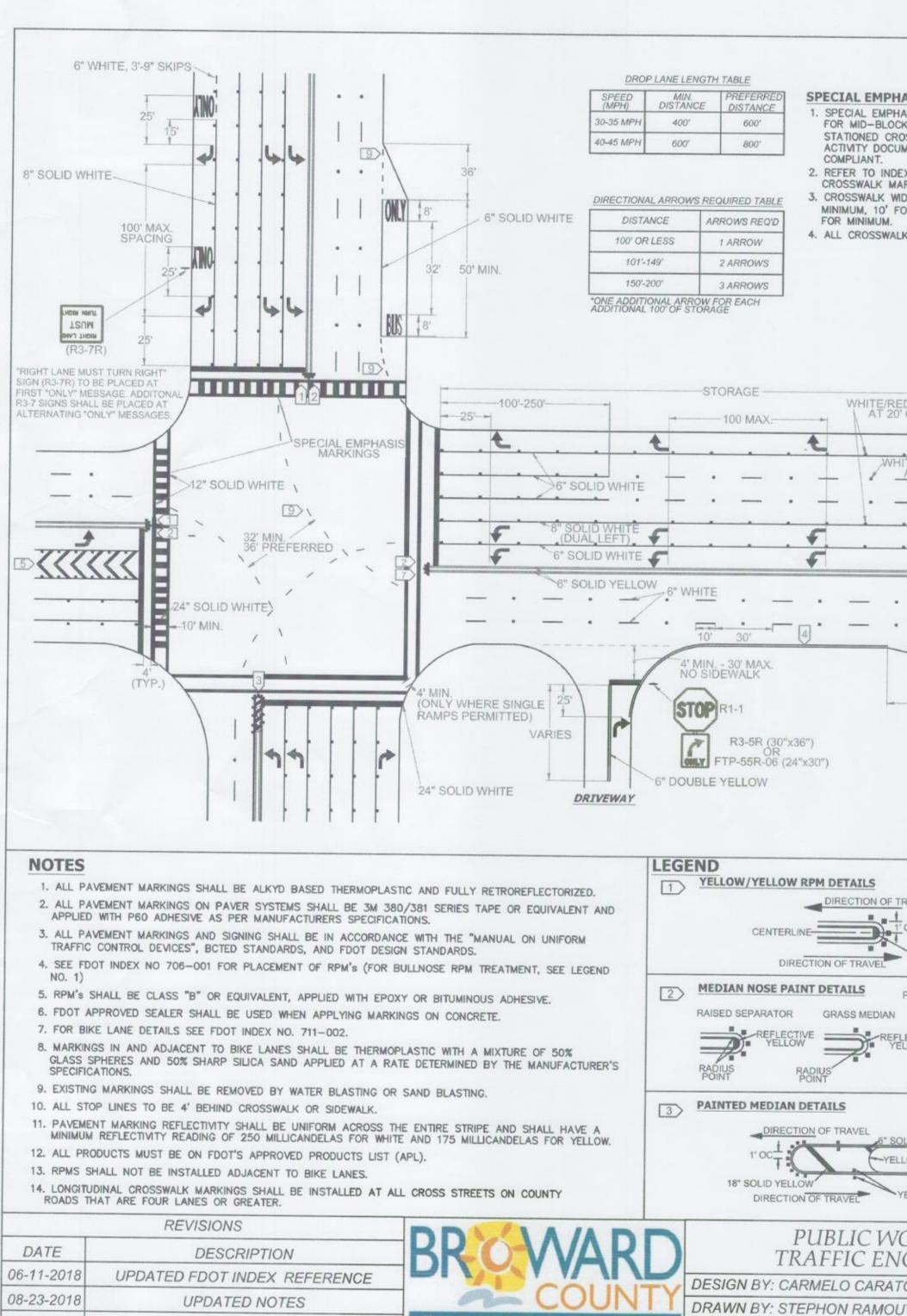
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D DETAIL	301 East Atlantic Boulevard Pompano Beach, FL 33060
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	Florida Certificate of Authorization # - 7928
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	PERMIT SET
	PROJECT NO. 07209.06

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11-24-2020

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UPDATED NOTES

SPEED (MPH) 30-35 MPH 40-45 MPH 40-45 MPH 36' 8' 6" SOLID WHITE 100' OR 32' 50' MIN. 150'-2	4. ALL CROSSWALK MARKINGS MUST BE WHITE.	R3-5R (30"x36")	SEE FDOT INDEX NO. 711-001 FOR TACEMENT OF CROSSHATCHING.
A MIN (ONLY WHERE SINGLE A' MIN (ONLY WHERE SINGLE A' MIN (ONLY WHERE SINGLE RAMPS PERMITTED) VARIES VARIES VARIES VARIES	STORAGE 100 MAX. 100 MAX. WHITE/RED RPM'S AT 20' O.C. WHITE/RED RPM'S AT 40' O.C. WHITE WHITE WHITE WHITE WHITE	R1-1 OIS TRANSITION 18" S 6" S 6" S 6" WHITE ENTERED 15'	OLID WHITE OLID WHITE SIDEWALK 24" SOLID W 6" · 10' SKP 6" YELLOW 6" · 10' STORAGE 200' STORAGE SIDEWALK 150' STORAGE 50' - 6 50' - 6
AND FULLY RETROREFLECTORIZED. 381 SERIES TAPE OR EQUIVALENT AND 3NS. WITH THE "MANUAL ON UNIFORM STANDARDS. LNOSE RPM TREATMENT, SEE LEGEND OR BITUMINOUS ADHESIVE. S ON CONCRETE. STIC WITH A MIXTURE OF 50% DETERMINED BY THE MANUFACTURER'S AND BLASTING. ENTIRE STRIPE AND SHALL HAVE A AND 175 MILLICANDELAS FOR YELLOW. IL.	DIRECTION OF TRAVEL CENTERLINE DIRECTION OF TRAVEL DIRECTION OF TRAVEL DIRECTION OF TRAVEL REFLECTIVE POINT OF CURVE RAISED SEPARATOR REFLECTIVE RAISED SEPARATOR REFLECTIVE RAISED SEPARATOR REFLECTIVE RADIUS	 EDGE LINE DETAILS ^o SOLID WHITE OR YELLOW ^o SOLID WHITE OR YELLOW ^o EDGE OF PAVEMENT CHEVRON DETAILS - CROSSWALK AREAS AND IN FRONT OF CURB RAMP DIRECTION OF TRAVEL ^o WHITE/RED RPM's ^o SOLID WHITE ^o SOLID	6' - 10' SKIPS 6" WHITE SHALL BE USED FOR THE FOLLOWING CON TRANSITIONS AT ALL LEFT AND RIGHT TURN LANES 2'-4' SKIP DETAILS 2' - 4' SKIPS 6" WHITE SHALL BE USED FOR THE FOLLOWING CON
FLORID	PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION DESIGN BY: CARMELO CARATOZZOLO, P.E. SCALE: NTS DRAWN BY: STEPHON RAMOUTAR CHECKED BY: ANDREW SEBO, P.E., PTOE	AND	T MARKINGS SIGNS TAILS

B.C.H.C.E.D. REF. #210212101

LANE

SOLID YELLOW

4

" 10' - 30' ELLOW SKIP

30' RADIUS MIN.

SIDEWALK _ · _ - - --YELLOW PAINT RPM'S - - ----SIDEWALK

TOP) _ D SOLID E YELLOW

ELLOW/ YELLOW PM'S AT 40' O. C.

IVE YELLOW PAINT YELLOW RPM's

DITIONS:

NDITIONS: ENT (90' RADIUS

THAT HAS A TOP SIGNS FACING ONE APPROACH

NE) STREET OR INIMUM SIZE OF 6"X36".

> SHEET NO.

1 OF 1

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

- BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECT'S DESIGN OR OPERATION. THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.
- 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 PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER 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, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, 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 PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER BRICKS, PAVEMENT MARKINGS ON OR ADJACENT TO PAINTED ASPHALT, 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, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, 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 AND ASPHALT WORK.



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