# 3322 BOUTWELL 3322 BOUTWELL RD. LAKE WORTH, FL 33461 PAVINGAND DRAINAGE PLANS

SECTION 20 T44S-R43E

### **DEMOLITION NOTES:**

1. CONTRACTOR TO INSPECT PROJECT AREA TO ASCERTAIN THE EXTENT OF DEMOLITION, REMOVAL AND SALVAGE WORK.

2. CERTAIN AREAS ADJACENT TO DEMOLITION WORK AREAS WILL BE OCCUPIED AND THEIR ACTIVITIES CANNOT BE INTERRUPTED OR DISTURBED DURING NORMAL WORKING HOURS, CONSULT WITH OWNER'S REPRESENTATIVE AND SCHEDULE WORK ACCORDINGLY.

3. COORDINATE WITH APPLICABLE UTILITY COMPANIES AND OWNER'S REPRESENTATIVE FOR UTILITY LINE REMOVAL, RELOCATION, CAPPING AND UTILITY SHUTDOWNS NECESSITATED BY DEMOLITION WORK.

4. COMPLY WITH ALL PUBLIC AGENCIES RULES AND REGULATIONS HAVING JURISDICTION IN THE PROJECT REGARDING DEMOLITION, REMOVALS, RELOCATION, CAPPING, SHUTDOWNS, TRAFFIC MAINTENANCE AND BACKFILLING OF BURIED AND ABOVE GROUND UTILITIES, TANKS, AND STRUCTURES OF ANY KIND, INCLUDING TREES AND FENCES. OBTAIN ALL NECESSARY PERMITS AND PROCEDURE APPROVALS BEFORE PROCEEDING

5. EXISTING SIDEWALKS, CURBS, PAVING, FENCES, LIGHTING POLES, OR OTHER EXISTING WORK NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY REMOVED, DAMAGED, EXPOSED OR IN ANY WAY ALTERED OR DISTURBED SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO OWNER.

A. CONTROL AMOUNT OF DUST RESULTING FROM CONSTRUCTION TO PREVENT SPREAD OF DUST TO OCCUPIED PORTIONS OF BUILDINGS AND TO AVOID CREATION OF A NUISANCE IN SURROUNDING AREAS. USE OF WATER TO CONTROL DUST WILL NOT BE PERMITTED WHEN IT WILL RESULT IN, OR CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS FLOODING. B. USE OF EXPLOSIVES WILL NOT BE PERMITTED. . DISPOSITION OF DEMOLISHED MATERIALS BY BURNING WILL NOT BE PERMITTED.

2. CONDUCT DEMOLITION OPERATIONS IN A MANNER THAT TRAFFIC MAY BE MAINTAINED ALONG EXISTING STREETS, WALKS AND PARKING FACILITIES.

3. TITLE TO MATERIALS AND EQUIPMENT TO BE REMOVED, EXCEPT SALVABLE EQUIPMENT TO BE RETAINED BY OWNER, IS VESTED IN THE CONTRACTOR UPON RECEIPT OF NOTICE TO PROCEED. OWNER WILL NOT BE RESPONSIBLE FOR THE CONDITION, LOSS OF, OR DAMAGE TO SUCH MATERIALS UPON RECEIPT BY THE CONTRACTOR OF THE

4. REMOVE EXCESS MATERIALS AND EQUIPMENT, NOT SPECIFIED TO BE SALVAGED, FROM THE SITE AND PREMISES UPON COMPLETION OF REMOVAL OPERATIONS. 5. FILL HOLES AND OTHER HAZARDOUS OPENINGS CREATED BY DEMOLITION OR

6. REMOVE MATERIALS AND RELATED DEBRIS FROM THE SITE IN A REGULAR BASIS. ACCUMULATION OF DEBRIS ON THE SITE WILL NOT BE PERMITTED. AT TERMINATION OF WORK LEAVE AREA READY FOR CONSTRUCTION OF THE PROJECT.

7. BEFORE PROCEEDING WITH REMOVAL WORK CHECK WITH OWNER'S REPRESENTATIVE IF ANY ITEMS INDICATED TO BE REMOVED IS TO BE SALVAGED. CAREFULLY REMOVE THESE ITEMS AND TRANSFER TO STORAGE AREAS AS DIRECTED BY OWNER'S REPRESENTATIVE.

### SITE NOTES:

1. ALL WORK IN THE RIGHT-OF WAY SHALL COMPLY WITH THE CITY OF LAKE WORTH DEPARTMENT OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS

2. CONTRACTOR SHALL UNDERSTAND THAT THE WORK TO BE PERFORMED IS INCLUSIVE WHETHER STATED IN THE PLANS OR NOT. WORK INCLUDES BUT IN NOT LIMITED TO THE

A. DEMOLITION AND REMOVALS. B. CLEARING AND GRUBBING.

C. DEWATERING (INCLUDING ALL PERMITTING). ). EROSION CONTROL BARRIERS.

F. EARTHWORK (INCLUDING ALL NECESSARY DENSITY TESTS). G. DRAINAGE.

H. MAINTENANCE OF TRAFFIC. I. OTHER WORK AS DIRECTED BY OWNER'S REPRESENTATIVE OR ENGINEER OF RECORD.

3. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROLS PRIOR TO OR DURING CONSTRUCTION TO PREVENT VIOLATIONS OF STATE WATER QUALITY STANDARDS FOR OFF-SITE DISCHARGES. THESE BARRIERS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.

4. FILL SOILS WHICH ARE PLACED TO RAISE SITE GRADES SHALL CONSIST OF INORGANIC SAND WITH LESS THAN 10% PASSING THE NUMBER 200 SIEVE OR CRUSHED LIMESTONE. FILL SOILS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY. FIELD DENSITY TEST SHALL BE TAKEN ON EACH LIFT OF FILL, ON TEST PER 2,500 SQUARE FEET. FILL SOILS SHALL BE PLACED ON A PROOF ROLLED SUBGRADE. THIS WORK SHALL BE AS DIRECTED BY THE PROJECT GEOTECHNICAL /

5. FILL FOR LANDSCAPING, COMMON AREAS OR OTHER AREAS THAT DO NOT REQUIRE STRUCTURAL FILL SHALL MEET THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION,

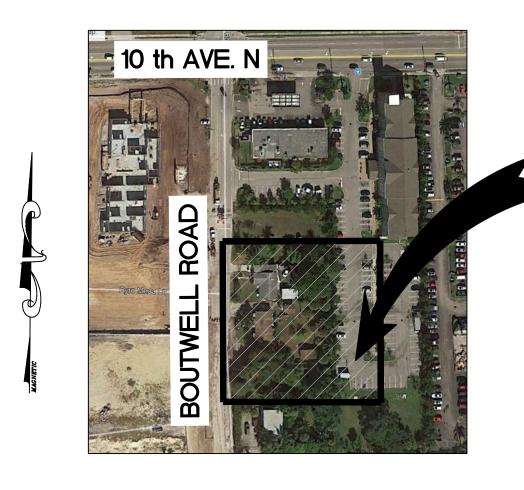
6. SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND UTILITIES SHALL BE INSTALLED, TESTED, INSPECTED AND APPROVED PRIOR TO ROAD

CONTACT PERSON INFORMATION

NAME: <u>Alexander Rojas, PE</u>

TELEPHONE NUMBER: <u>561-891-5124</u>

E-MAIL ADDRESS: \_ar.tyg.75704@gmail.com



**PROPERTY** SUBJECT

LOCATION MAP

### DRAWINGS INDEX

SHEET No.	<u>SHEET DESCRIPTION</u>
C-001	COVER SHEET
C-101	PAVING, GRADING & DRAINAGE PLAN
C-102	EROSION AND SEDIMENT CONTROL PLAN
C-103	STRIPING AND SIGNAGE PLAN
C-301	EROSION CONTROL NOTES & DETAILS
C-302	STANDARD DETAILS
C-303	STANDARD DETAILS

### SPECIFIC NOTE:

ADEQUATE DRAINAGE SHALL BE PROVIDED AND SURFACE RUN-OFF WATER SHALL BE DIVERTED TO STORM CONVEYANCE OR OTHER APPROVED POINT OF COLLECTION (SEE PLANS) IN ACCORDANCE WITH FLORIDA BUILDING CODE AND LAKE WORTH BEACH CODE ORDINANCES. ALL SITE DRAINAGE IS DESIGNED AND SHALL BE CONSTRUCTED IN SUCH MANNER THAT RUN-OFF RATES, VOLUME AND POLLUTANT LOADS NO EXCEEDING PREDEVELOPMENT CONDITIONS AND PREVENTING FLOODING OF ADJACENT PROPERTIES AND PUBLIC RIGHT OF WAY.

### **GENERAL NOTES:**

- 1. ELEVATIONS SHOWN ON THE DRAWINGS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- 2.— THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING HIMSELF WITH THE EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
- 3.— THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE NATURE, SIZE, AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- THE CONTRACTOR SHALL RESTORE ALL EXISTING PAVEMENT, UTILITIES, (ABOVE AND BELOW GROUND), AND SURFACE FEATURES DISTURBED DURING CONSTRUCTION TO A CONDITION EQUAL TO, OR BETTER THAN THE EXISTING IN ACCORDANCE WITH THE CITY OF LAKE WORTH PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS.
- 5.— ALL WORK, MATERIALS AND RESTORATION SHALL CONFORM TO THE CITY OF LAKE WORTH PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS.
- 6.— IT IS THE INTENT OF THESE PLANS TO COMPLY WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 7. IT IS THE OWNER'S AND/OR CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY CONSTRUCTION AND MAINTENANCE EASEMENTS THAT MAY BE REQUIRED FOR THIS PROJECT.
- 8. DIMENSIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. FOR EXACT DIMENSIONS, SEE FINAL PLAT OR SITE PLAN AS PREPARED BY A REGISTERED LAND SURVEYOR. FIELD LAY-OUT OF THE WORK SHALL BE AS PER THE FINAL PLAT OR SITE PLAN AND SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR.
- 9 FRENCH DRAIN TO BE CONSTRUCTED WITH HDPE 18-INCH DIA. PERFORATED PIPE UNLESS
- 10.— THE ENGINEER IS NOT RESPONSIBLE FOR COORDINATING THE WORK OF OTHER UTILITIES, SUB-CONSULTANTS OR TRADES. IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE COORDINATION FOR, BUT NOT LIMITED TO, THE LOCATION OF WATER, SEWER, AND DRAINAGE UTILITIES, AS WELL AS THE SERVICES, WITH THE LOCATION OF DRIVEWAYS RAMPS, LANDSCAPING, OTHER INFRASTRUCTURE IMPROVEMENTS AND OTHER SURFACE
- 11.— CONTRACTORS TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING STRUCTURES AND OTHER MATERIALS.
- 14. FEMA ELEVATION: **ZONE "AE" 11'** NAVD.
- 15. MIN. F.F. ELEVATION: SEE PLAN N.A.V.D.
- 16. CONTRACTOR TO BUILD-UP ASPHALT AROUND MANHOLES, VALVES, INLETS, AND ALL OTHER APPURTENANCES. AFTER FIRST LIFT PER FDOT STD INDEX 600
- 17.— EXISTING TOPOGRAPHIC AND TREE LOCATION INFORMATION HAS BEEN OBTAINED FROM THE SKETCH OF TOPOGRAPHIC SURVEY PERFORMED BY MILLER LAND SURVEYING Date: 02/10/2020

### UNDERGROUND CONTRACTORS:

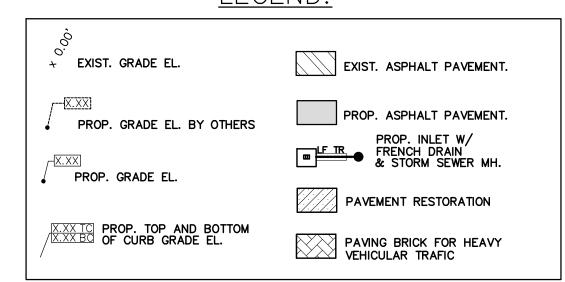
- A. UNDERGROUND CONTRACTOR SHALL COMPLY WITH THE TRENCH SAFETY ACT, HB 3183, FLORIDA STATUTES, WHICH INCORPORATES, BUT IS NOT LIMITED TO, THE FOLLOWING: 1. OSHA STANDARD 29 C.F.R. PART 1926, SUBPART P, EXCAVATION AND TRENCHES. 2. CONTRACT BIDS FOR TRENCH EXCAVATIONS (IN EXCESS OF 5 FEET DEEP) SHALL INCLUDE REFERENCE TO THE SAFETY STANDARDS, WRITTEN ASSURANCE OF COMPLIANCE, AND A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE. 3. ADHERE TO ANY SPECIAL SHORING REQUIREMENTS OF THE STATE OR OTHER POLITICAL
- B. ENGINEER IS NOT RESPONSIBLE FOR THE SAFETY OF THE EXCAVATION OR DESIGN AND CONSTRUCTION OF ANY SHORING.

### **ENGINEER CERTIFICATION NOTE:**

THIS PLAN WAS PREPARED UNDER MY DIRECTION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLIES WITH THE INTENT OF THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS", AS ADOPTED BY THE STATE OF FLORIDA LEGISLATURE, CHAPTER 72-328.FS.

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LEGEND.



DATE:

PROJECT NO:

02/14/20

Consulting Engineering LLC C.A. #32294

3921 NEW VALENCIA GREENACRES, FL 3346 (561) 891-5124

EMAIL:ar.tyg.75704@gmail.com

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No 75704

STATE OF

CORIDA

ALEXANDER ROJAS, PE REGISTERED ENGINEER NO. 75704

SCALE: AS SHOWN

DESIGNED: F.I.

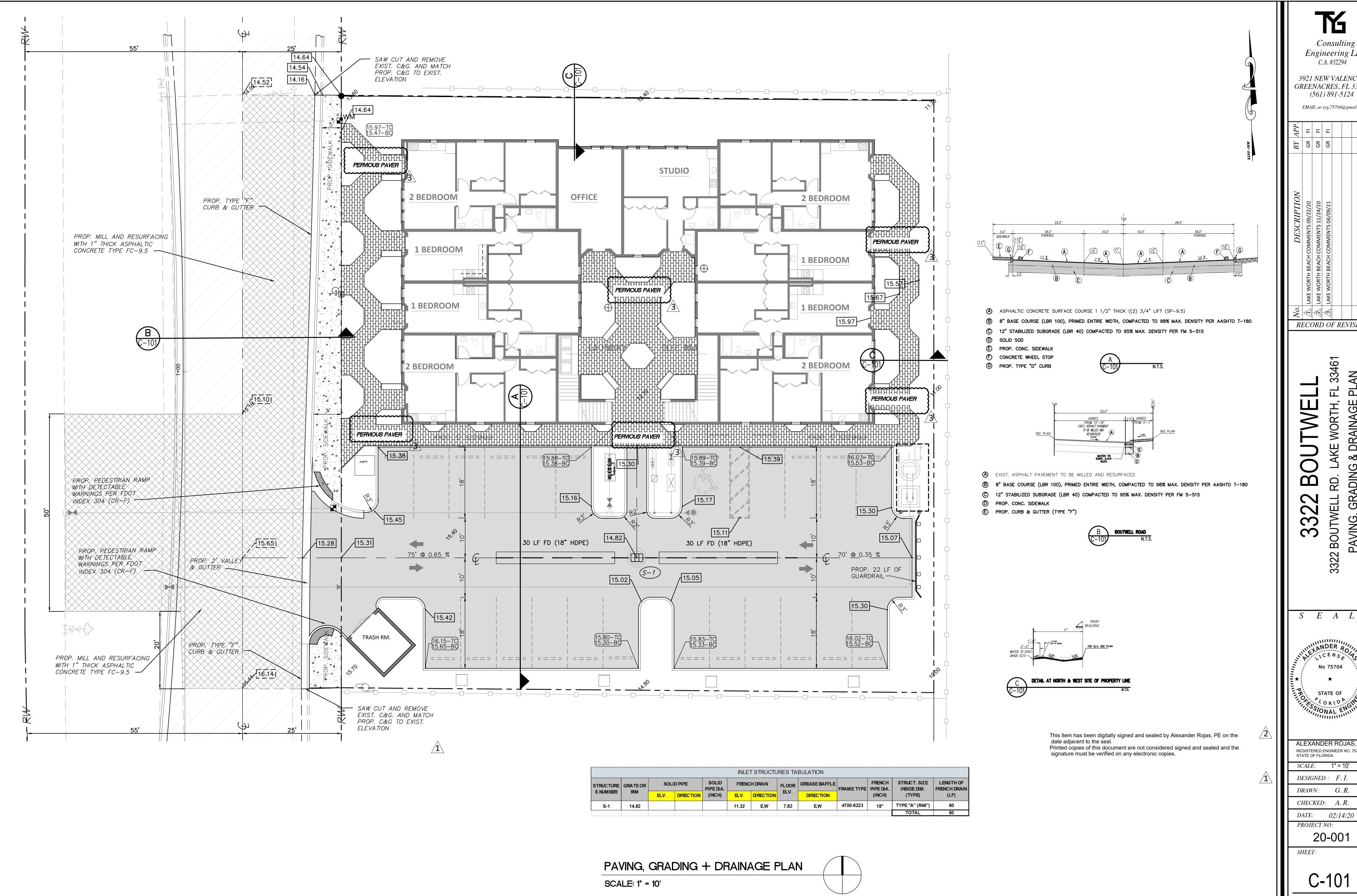
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STATE OF FLORIDA

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Consulting

Engineering LLC C.A. #32294

3921 NEW VALENCIA GREENACRES, FL 33462 (561) 891-5124

EMAIL:ar.tyg.75704@gmail.com

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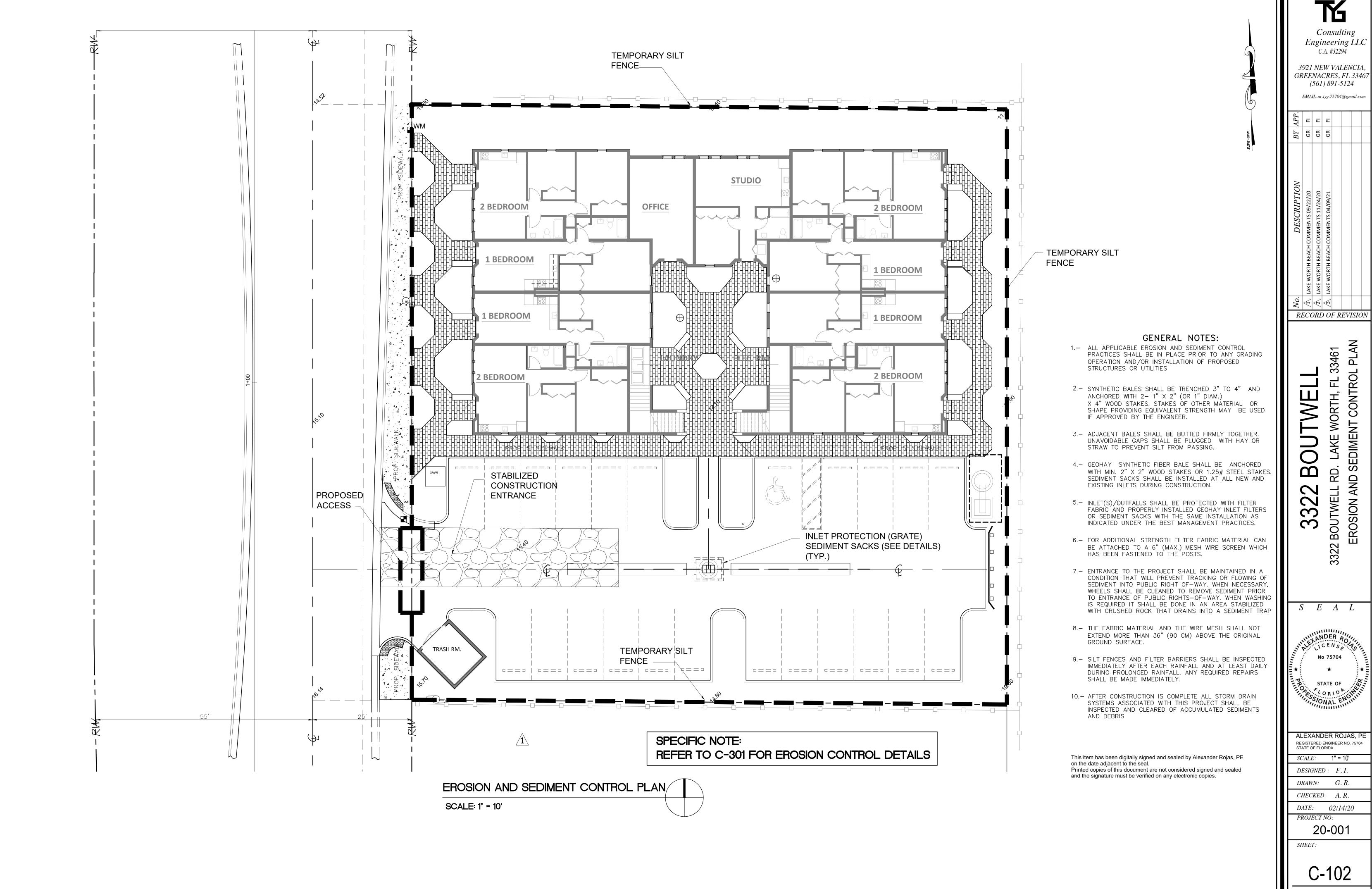
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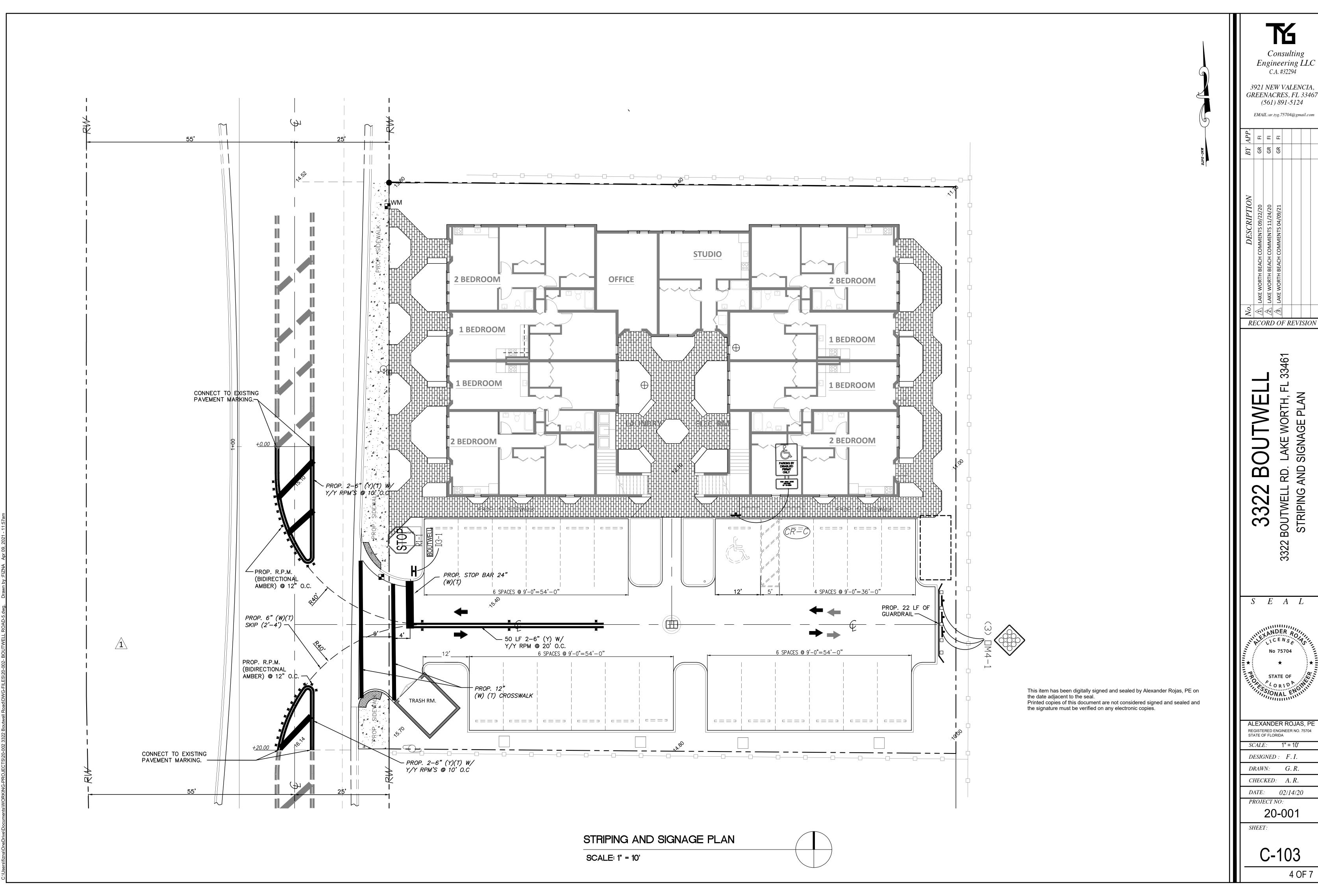
REGISTERED ENGINEER NO. 75704

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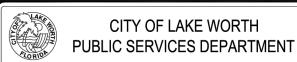
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- 1. THE INTENT OF EROSION CONTROL MEASURES INDICATED GRAPHICALLY ON PLANS IS TO PROVIDE A BARRIER TO CONTAIN SILT AND SEDIMENT ON THE PROJECT SITE. THIS REPRESENTATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE TEST OF EROSION CONTROL EFFECTIVENESS IS NOT TO BE DETERMINED BY ADHERENCE TO THE REPRESENT SET FORTH ON THE DRAWINGS AND SPECIFICATIONS, BUT BY MEETING THE REGULATIONS SET FORTH BY THE AUTHORITY HAVING JURSDICTION OVER WATER QUALITY CONTROL AND OTHER SEDIMENTATION RESTRICTION REQUIREMENTS IN THE REGION.
- 2. APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING GRADING, EXCAVATION, FILLING, OR OTHER LAND DISTURBANCE ACTIVITIES, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
- 3. INSPECTION OF ALL EROSION CONTROL MEASURES SHALL BE CONDUCTED WEEKLY, OR AFTER EACH RAINFALL EVENT. REPAIR, AND/OR REPLACEMENT OF SUCH MEASURES SHALL BE MADE PROMPTY, AS NEEDED.
- 4. KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE
- 5. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY ONSITE INSPECTION.
- 6. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.
- 7. DRAINAGE INLETS SHALL BE PROTECTED BY FILTER AND GRADED ROCK AS PER
- INLET PROTECTION DETAIL. 8. ANY ACCESS ROUTES TO SITE SHALL BE BASED WITH CRUSHED STONE, WHERE
- 9. EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- 10. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
- 11. ALL WORK IS TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS SET FORTH BY THE STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE CITY OF DELRAY BEACH.
- 12. DISCHARGE FROM DEWATERING OPERATIONS SHALL BE RETAINED ONSITE IN A



EROSION CONTROL NOTES

DETAIL

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

UP TO FINISHED GRADE.

WRITTEN INSTRUCTIONS.

MANUFACTURED BY BIOBARRIER.

1. ALL ROOT BARRIERS SHALL BE 4' MINIMUM FROM ALL CITY FACILITIES.

FENCE POST -

(WOOD OR STEEL)

DIG 4" WIDE & 4" DEEP -TRENCH, BURY BOTTOM

8" OF FABRIC, AND

ATTACHING TWO SILT FENCES

NOT TO SCALE

ANCHOR W/COMPACTED BACKFILL MATERIAL

FABRIC —

RUNOFF

SILT FENCE SECTION NOT TO SCALE

PLACE THE END POST OF THE SECOND FENCE

INSIDE THE END POST

ROTATE BOTH POSTS AT

LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO

WITH THE FABRIC MATERIAL

DRIVE BOTH POSTS ABOUT

GROUND AND BURY FLAP

CREATE A TIGHT SEAL

18 INCHES INTO THE

OF THE FIRST FENCE

2. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH CITY AND

3. ROOT BARRIERS SHALL BE MINIMUM 36" DEEP. APPROVED PRODUCTS INCLUDE

INSPECTED BY CITY PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND

"DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS

4. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS

NOTES:

TYPICAL TREE WITH ROOT BARRIER

ROOT BARRIER

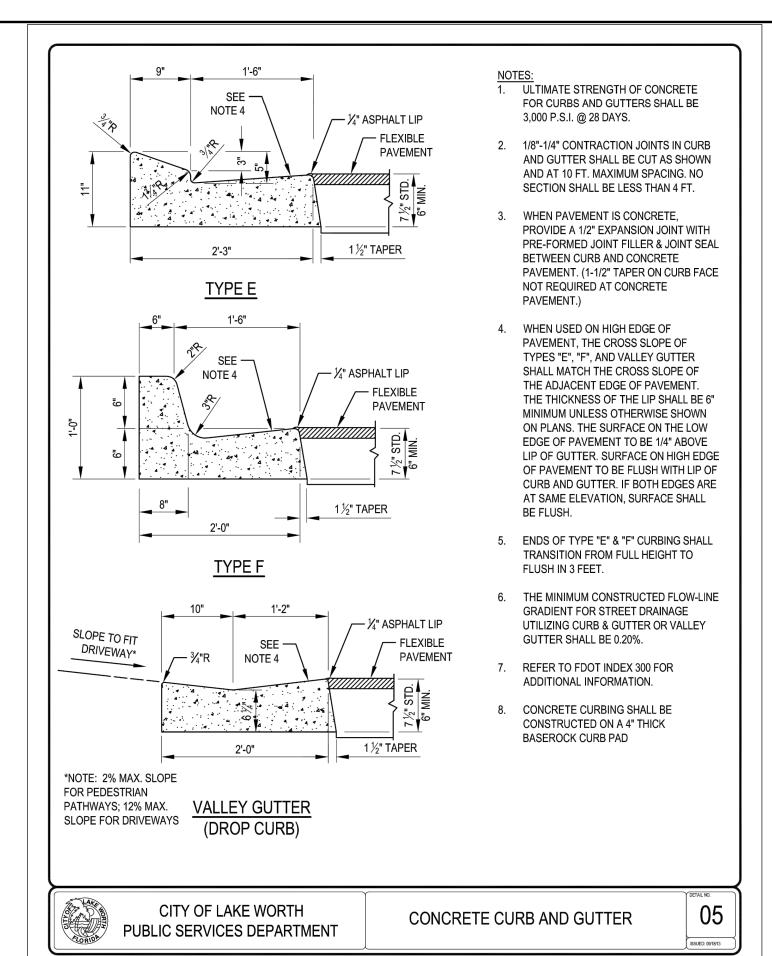
(SEE NOTES BELOW)

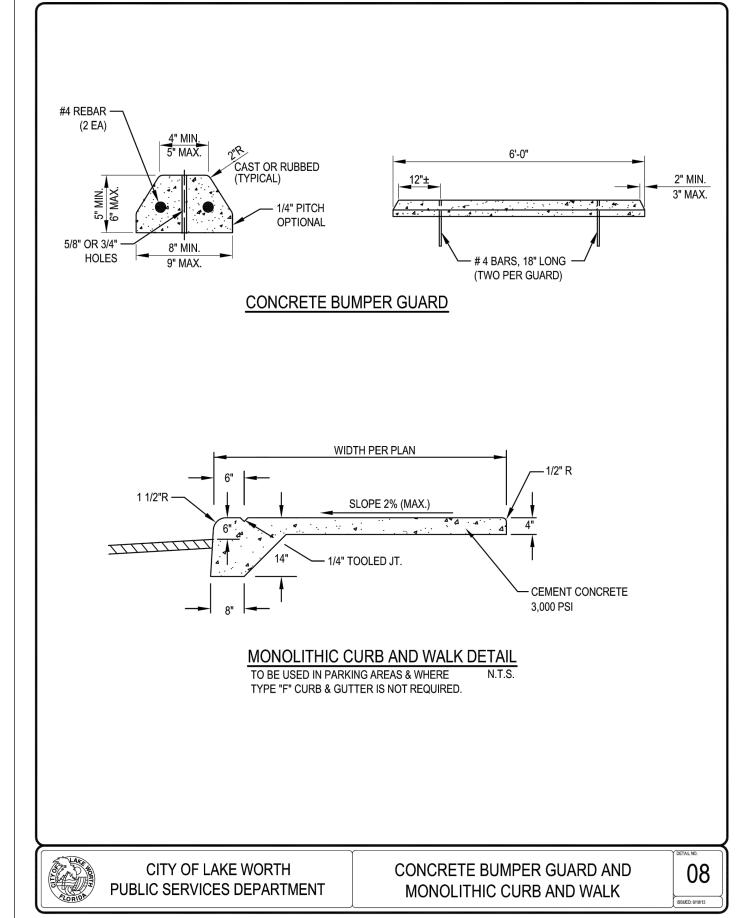
-CITY FACILITIES

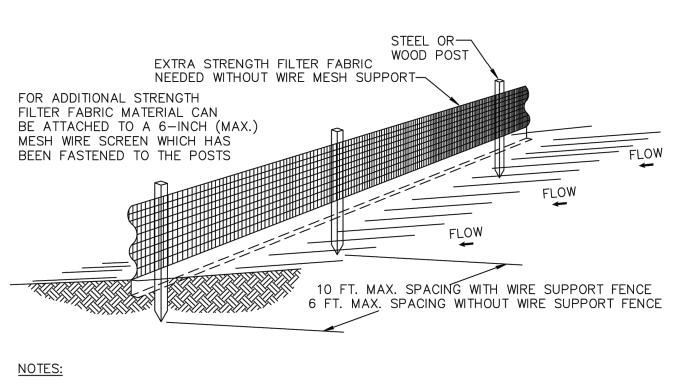
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- 1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (90 CM).
- 2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
- 3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT
- 4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES
- (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER. 5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT EXTEND MORE
- THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE. 6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 CM) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGIONAL
- GROUND SURFACE. 7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
- 8. ALL PROJECTS REQUIRE SUBMITTAL OF POLLUTION PREVENTION PLAN (PPP).
- 9. ALL PROJECTS 1 AC. OR MORE MUST SUBMIT NOTICE OF INTENT (NOI) TO FDEP.



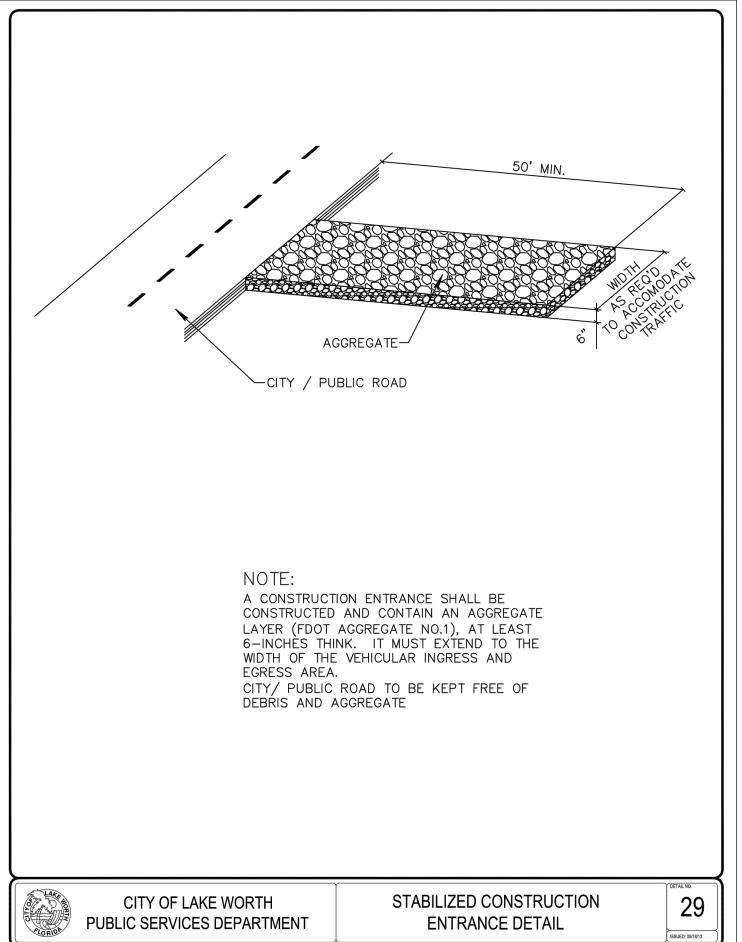
SILT FENCE INSTALLATION DETAIL

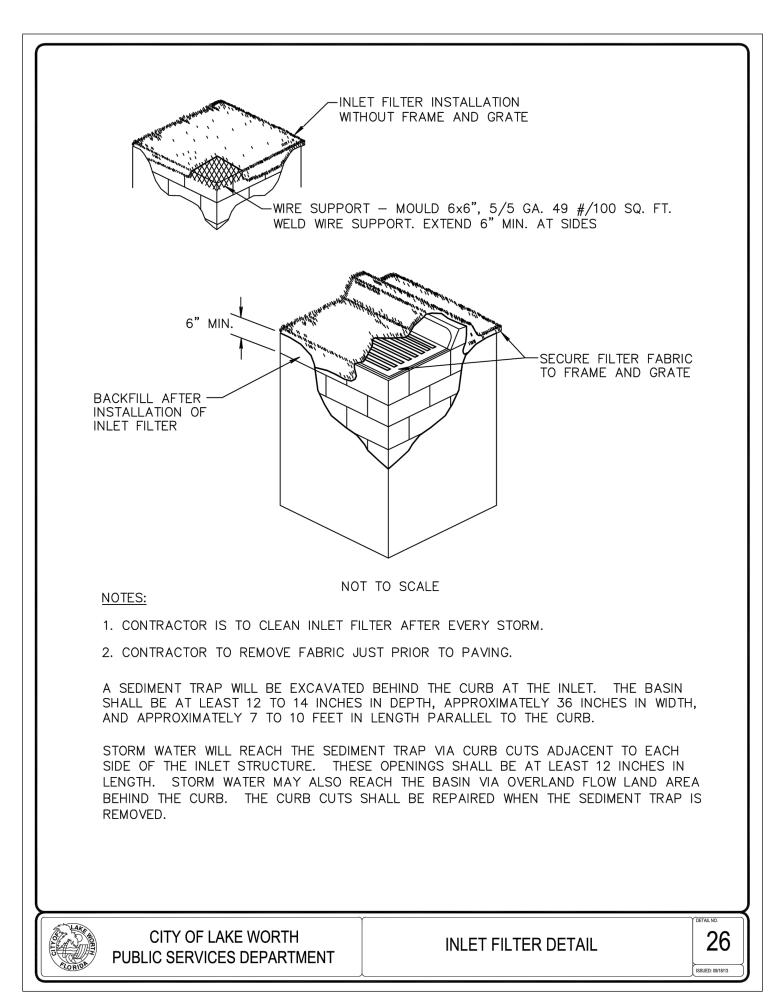
CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

DIRECTION OF RUNOFF WATERS

SILT FENCE INSTALLATION DETAIL

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Consulting

Engineering LLC C.A. #32294

*3921 NEW VALENCIA* GREENACRES, FL 3346

(561) 891-5124

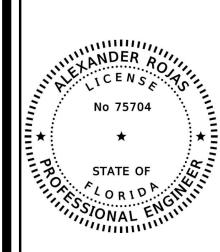
EMAIL:ar.tyg.75704@gmail.com

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ALEXANDER ROJAS, PE REGISTERED ENGINEER NO. 75704 STATE OF FLORIDA

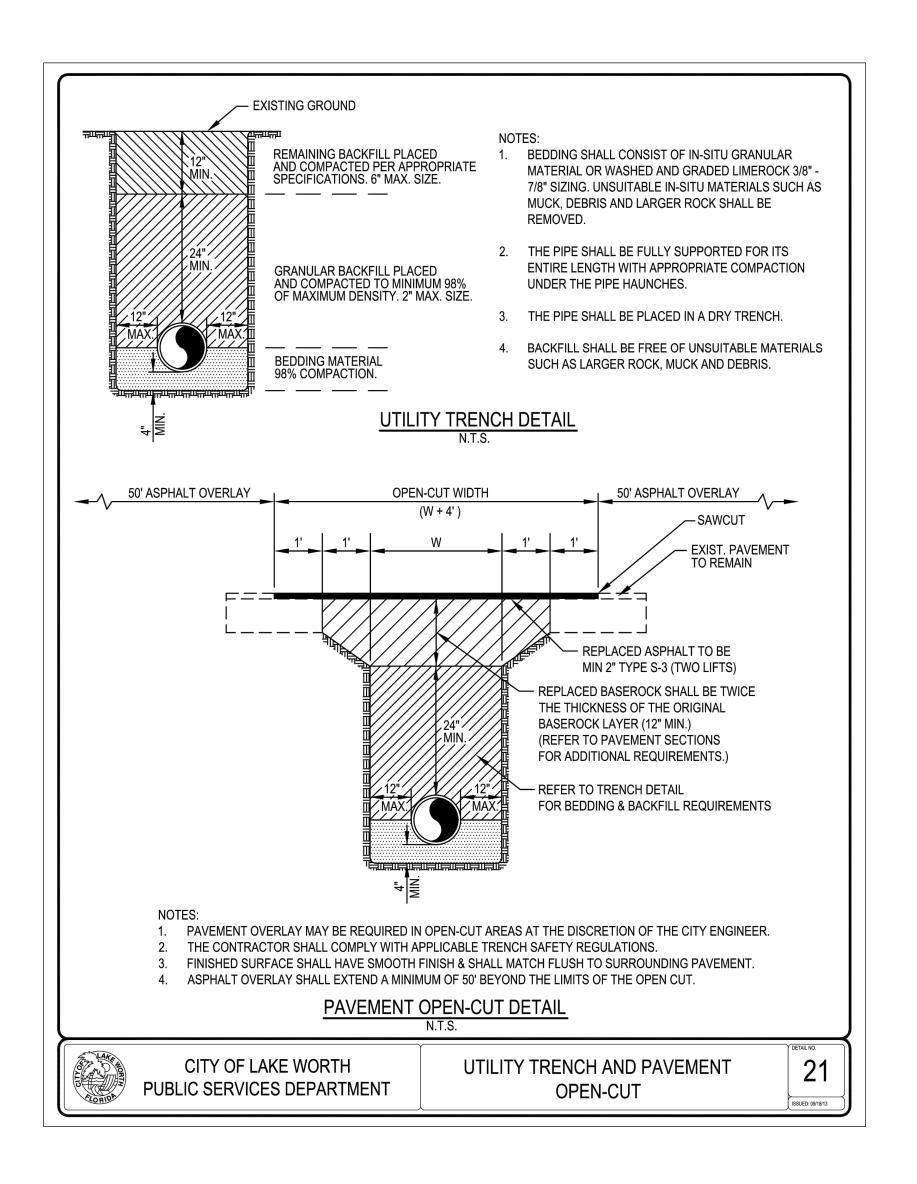
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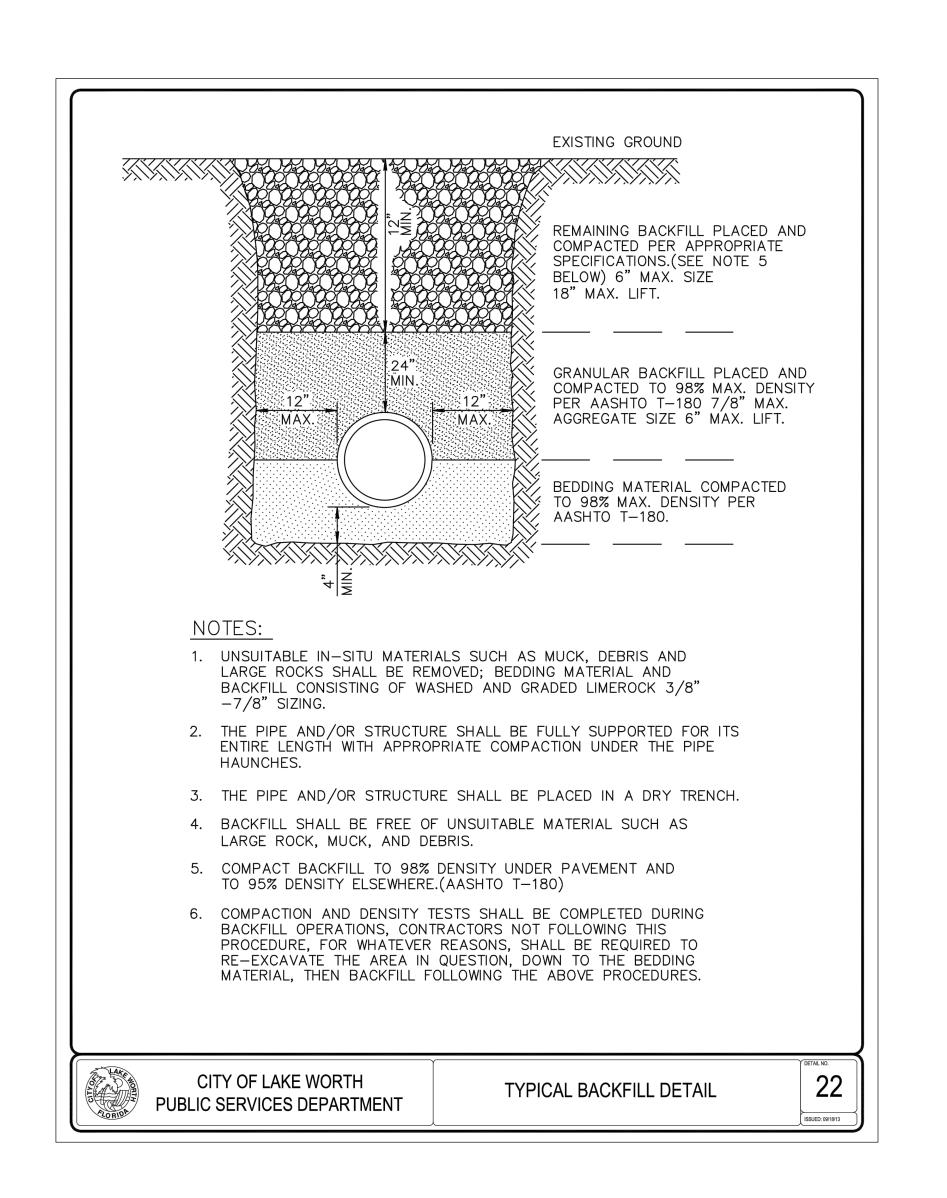
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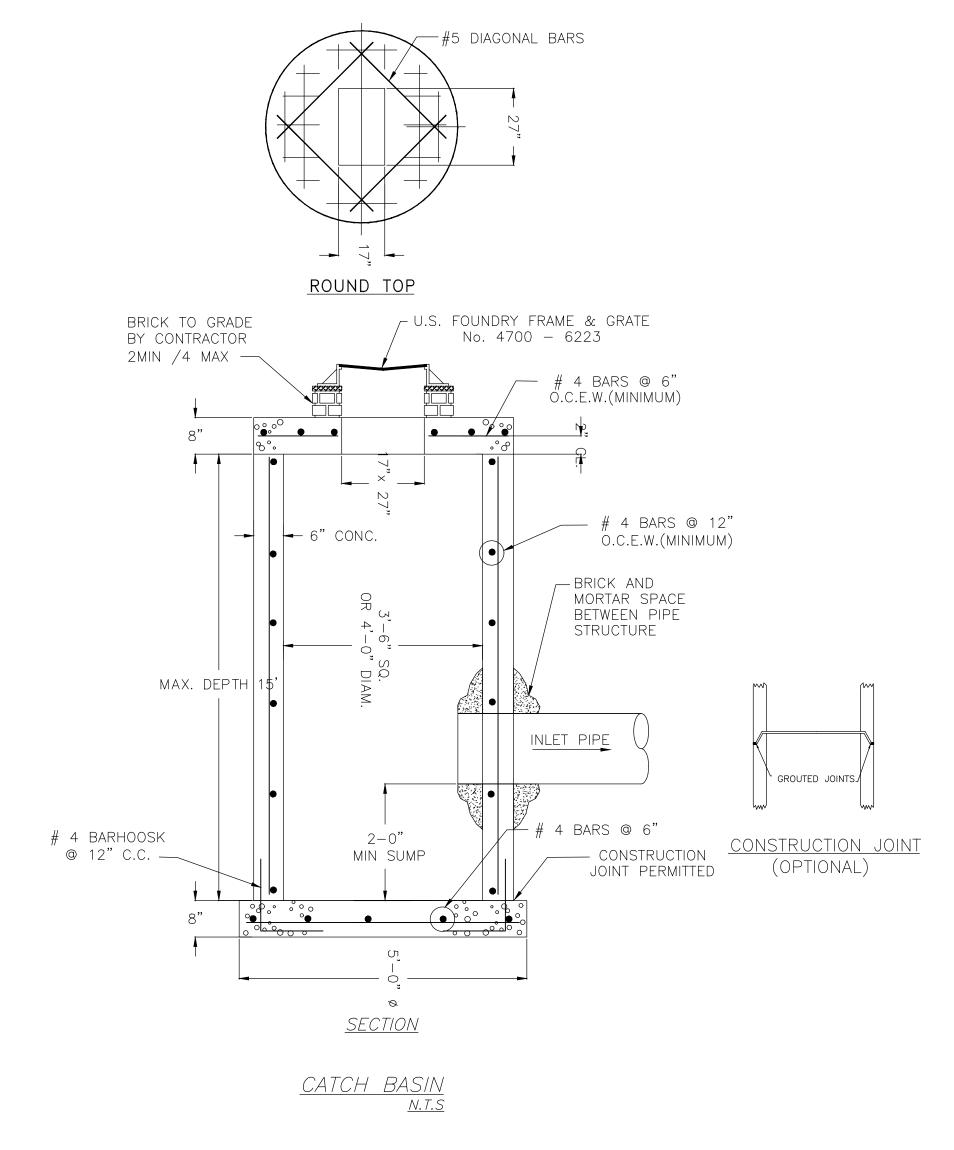
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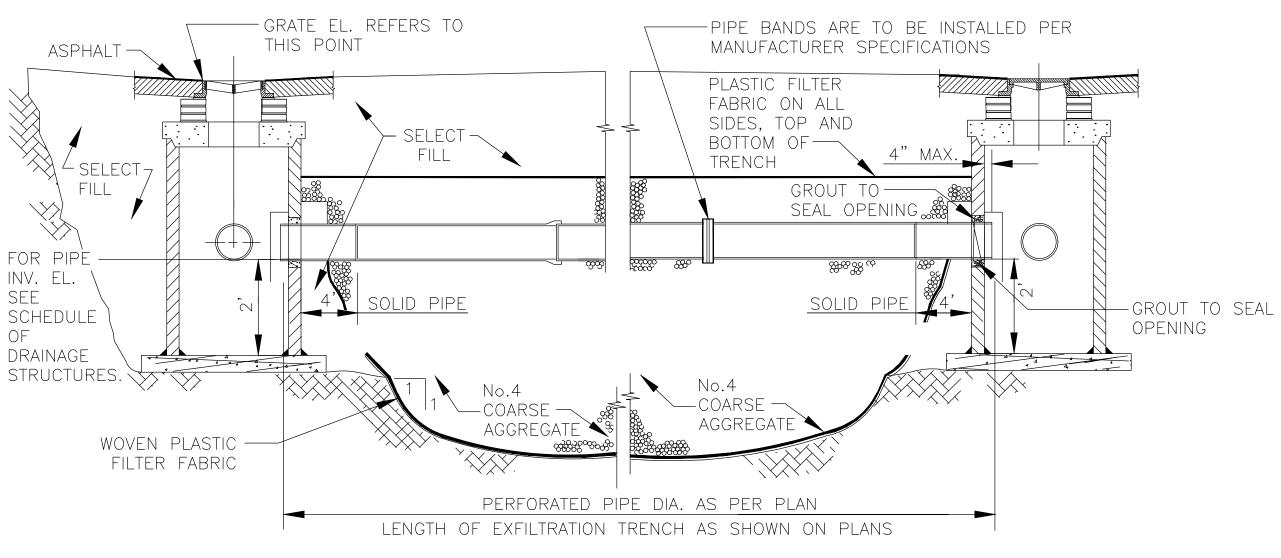
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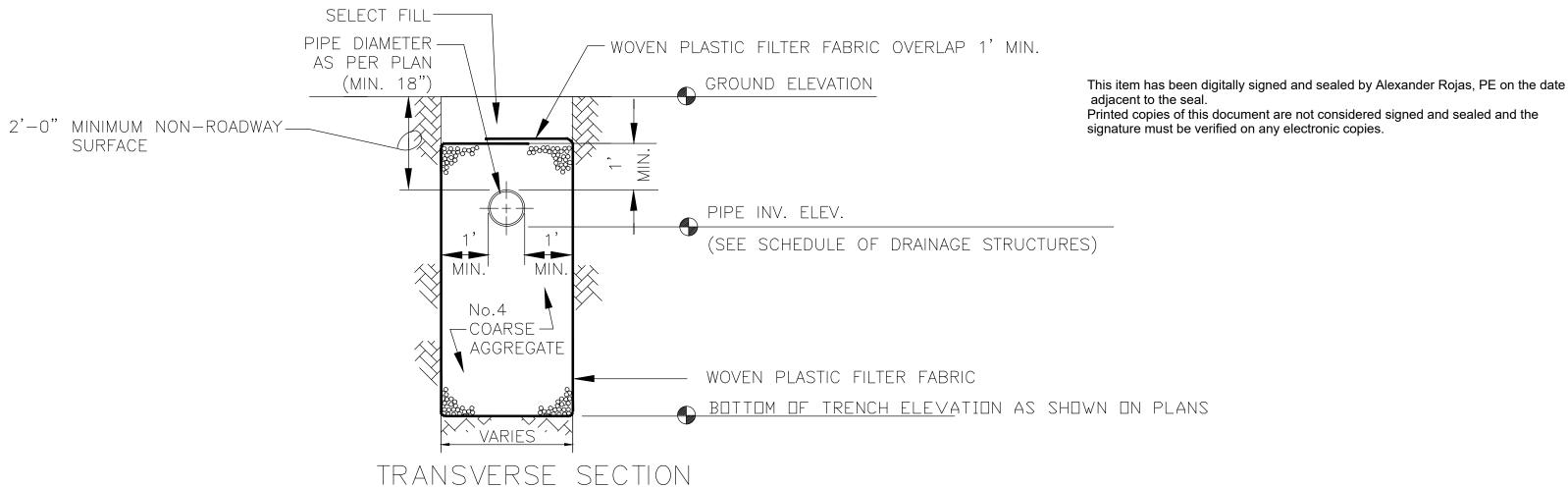




LONGITUDINAL SECTION

### NOTES:

- 1.- AFTER THE COARSE AGGREGATE HAS BEEN PLACED TO THE PROPER ELEVATION IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER, OR TAMPERED, TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF SETTLEMENT DOES TAKE PLACE, ADDITIONAL No.4 COARSE AGGREGATE SHALL BE ADDED TO RESTORE THE PROPER ELEVATION SO THAT THE EXFILTRATION TRENCH IS COMPLETED IN ACCORDANCE WITH THE DETAILS.
- 2.- EXCAVATION, SIDE SLOPE SHORING, ETC. SHALL CONFORM TO 0.S.H.A. STANDARDS



Consulting Engineering LLC C.A. #32294

3921 NEW VALENCIA GREENACRES, FL 33467 (561) 891-5124

EMAIL:ar.tyg.75704@gmail.com

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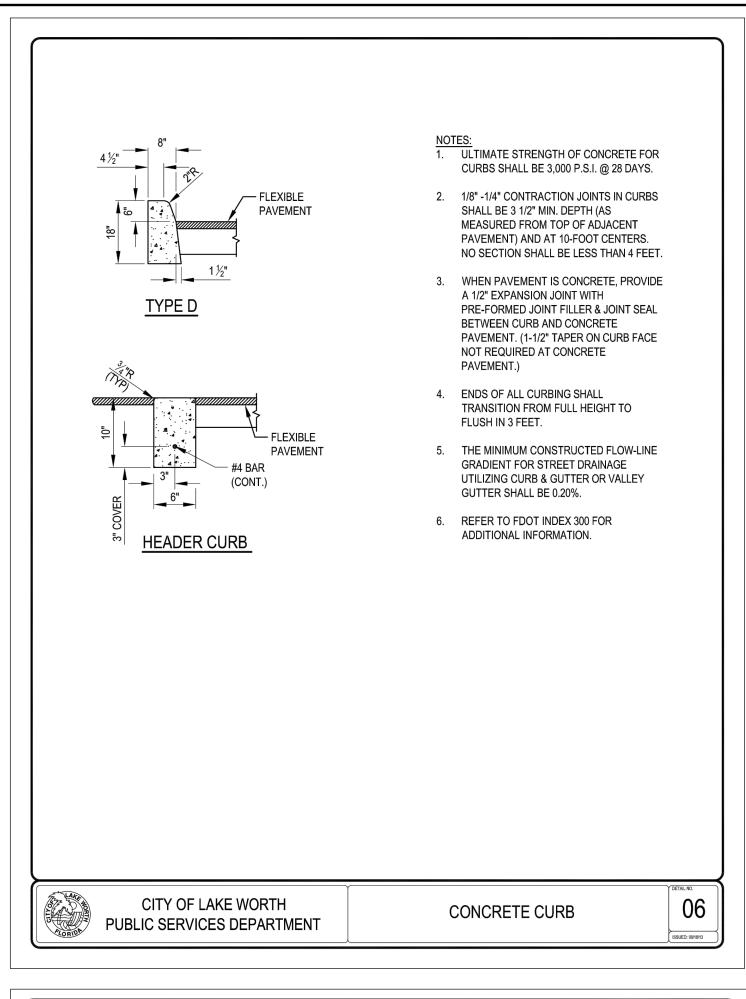
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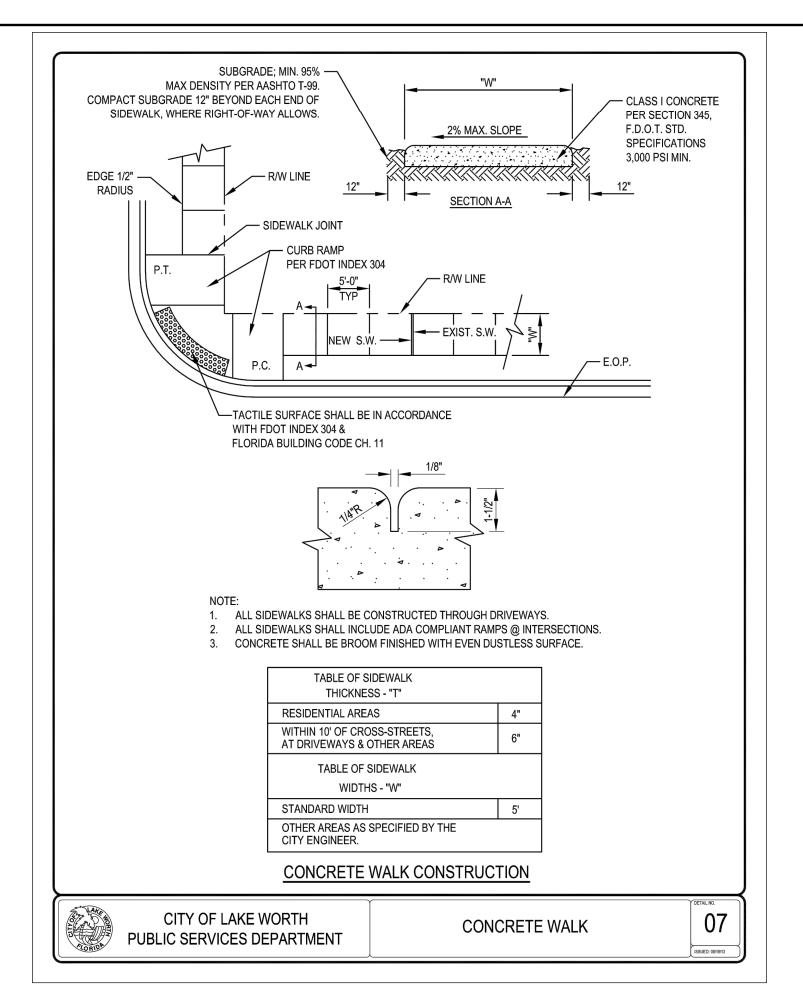
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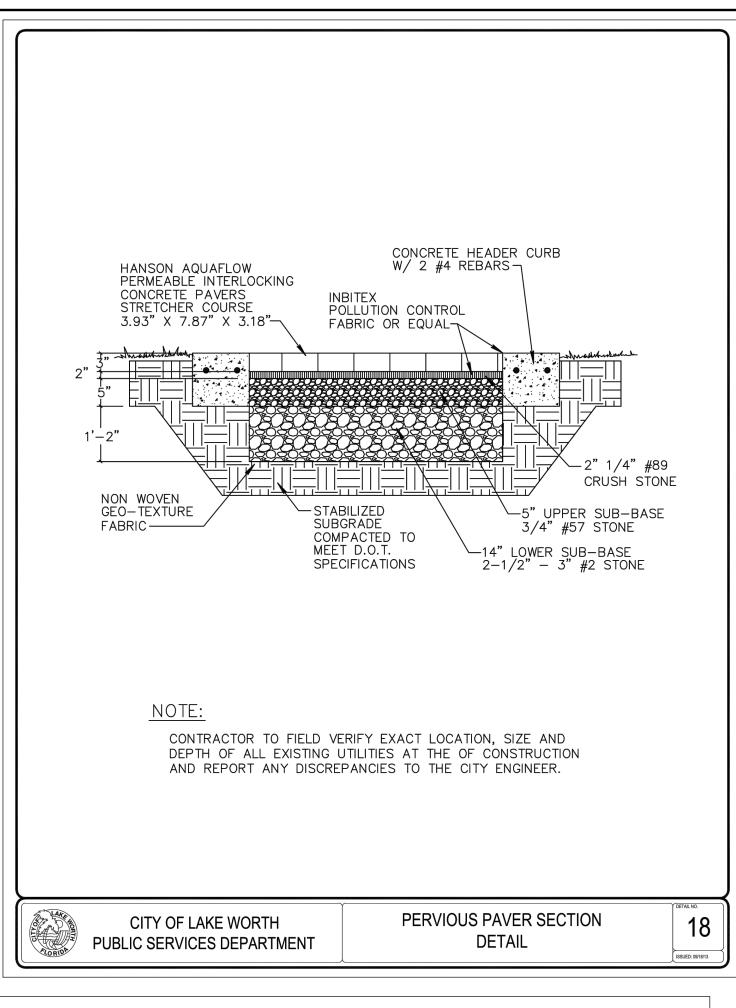
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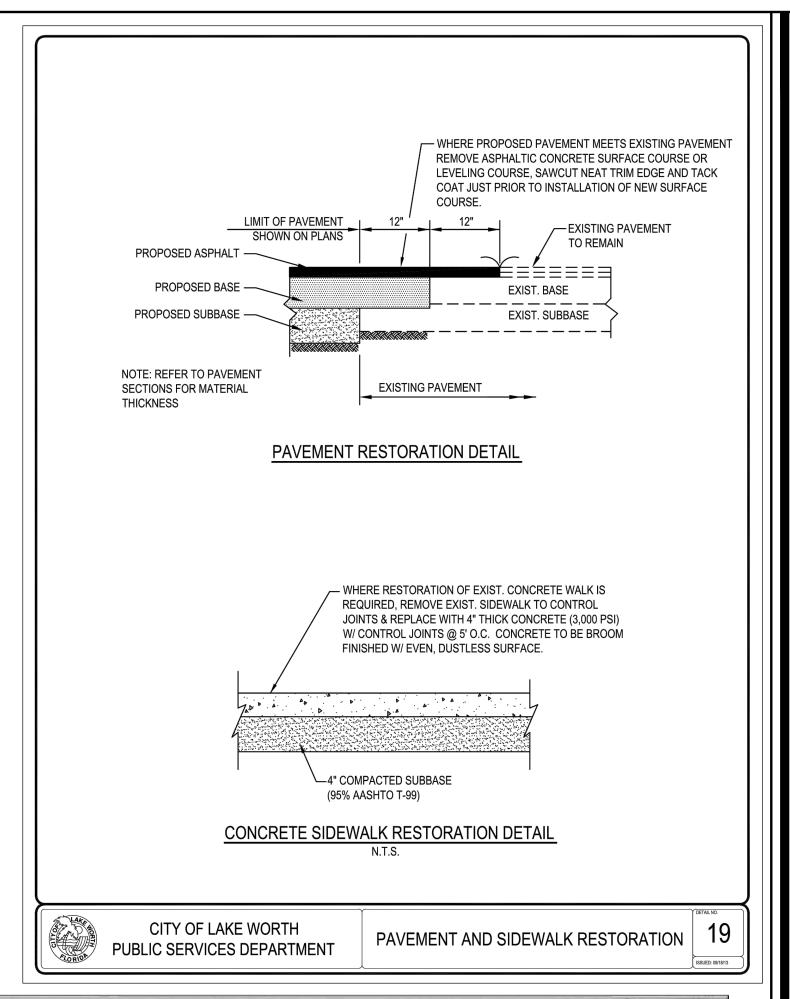
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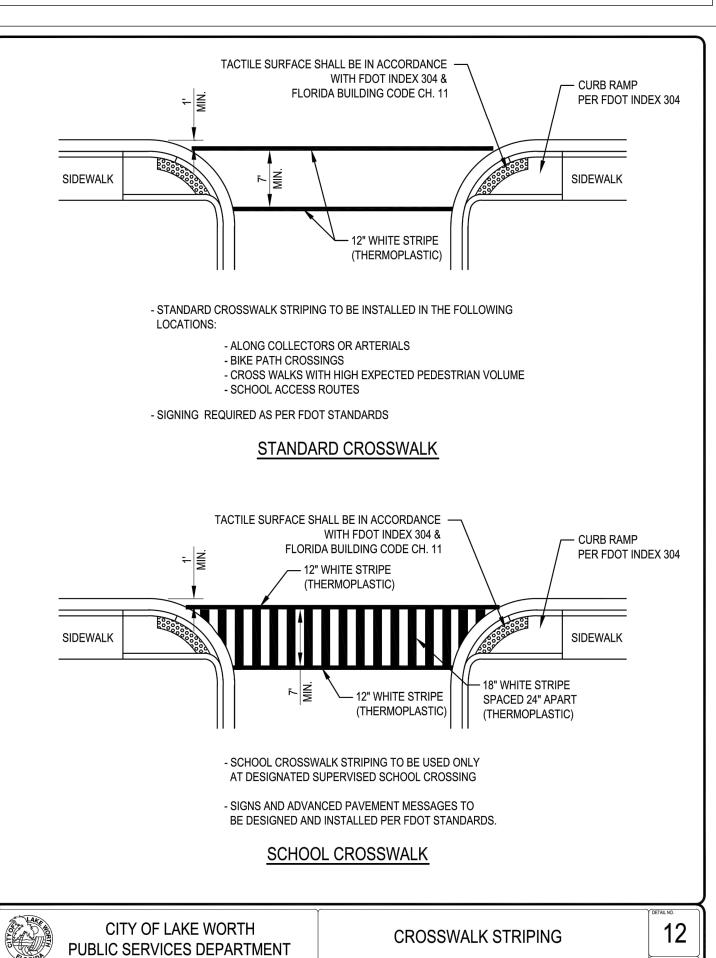
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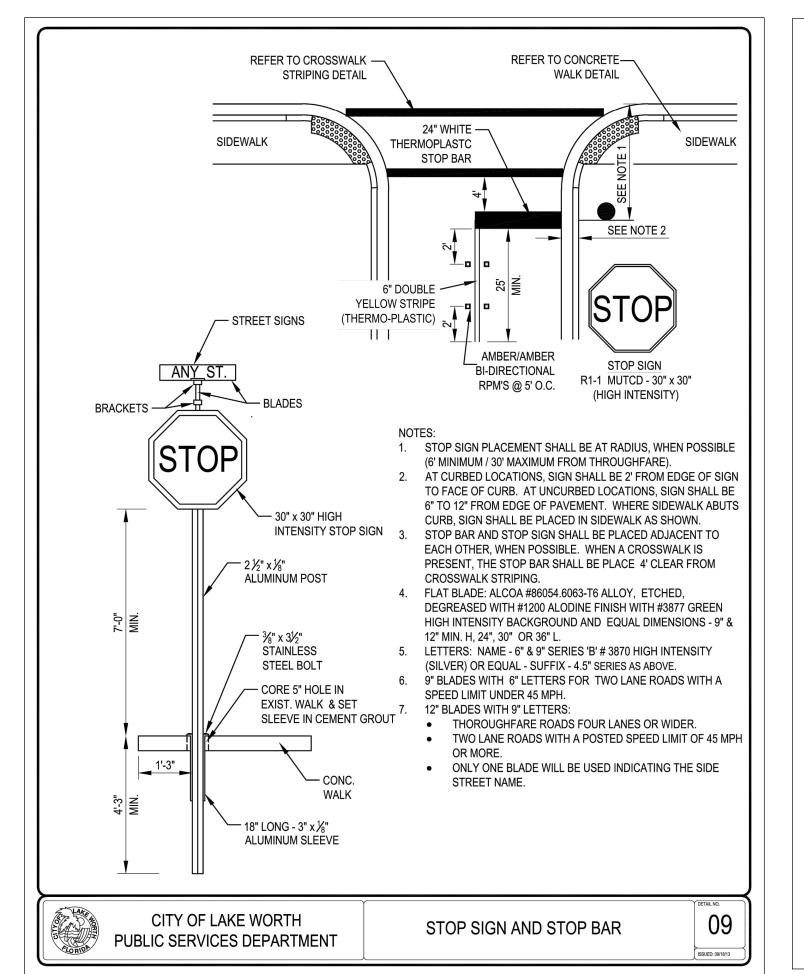


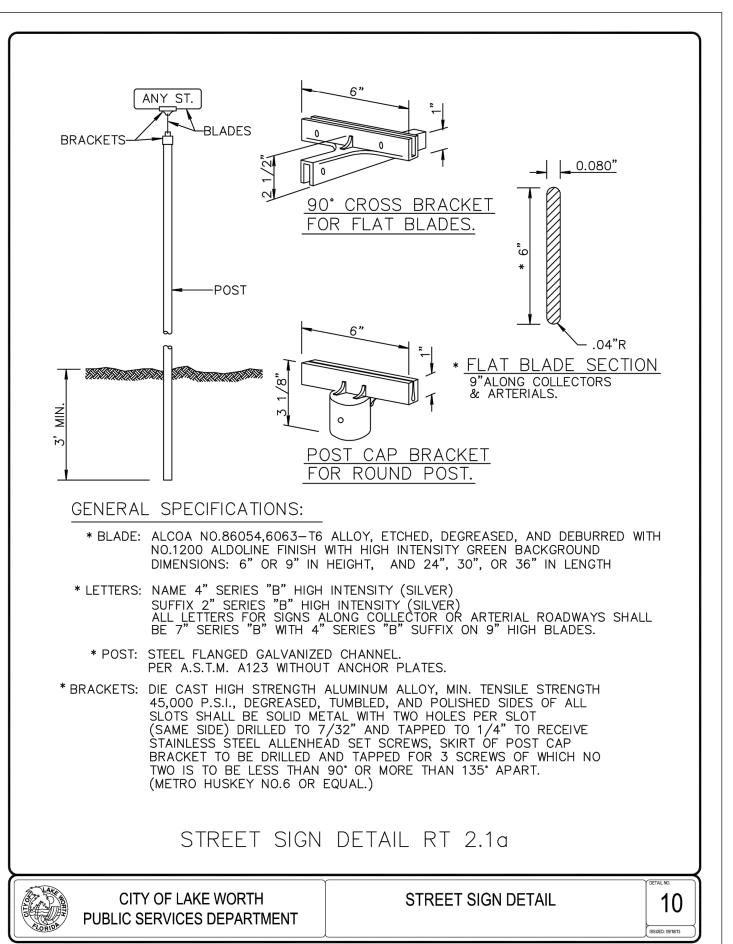


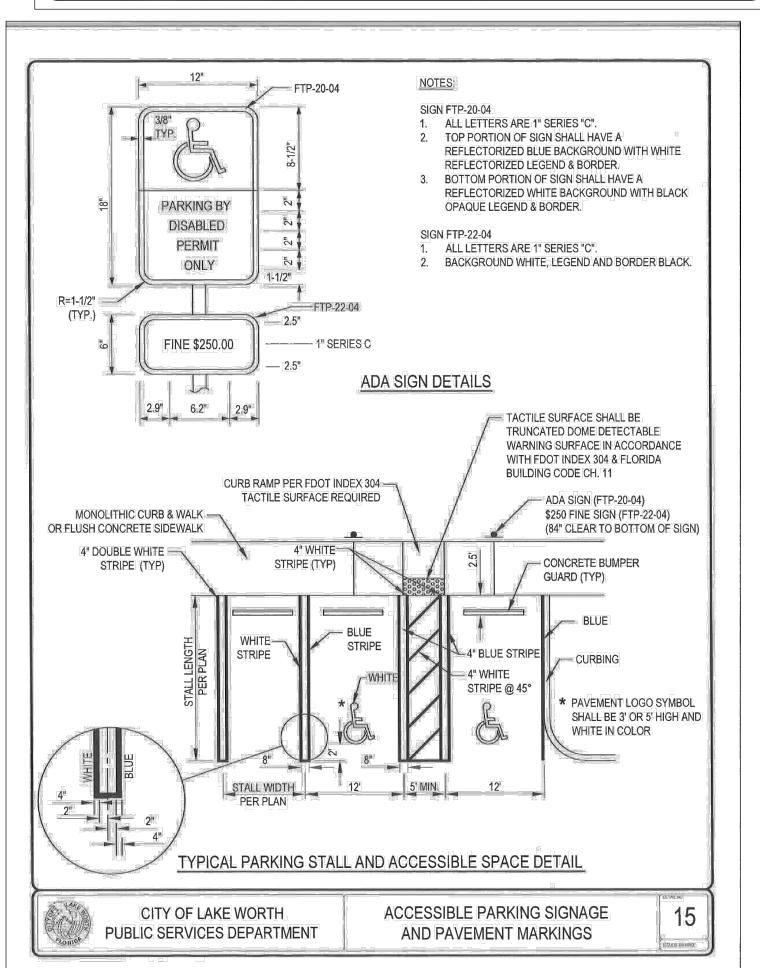












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Consulting
Engineering LLC
C.A. #32294

3921 NEW VALENCIA,
GREENACRES, FL 33467
(561) 891-5124

EMAIL:ar.tyg.75704@gmail.com

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EMAIL:ar.tyg.75704@gmail.com

3322 BOUTWELL RD. LAKE WORTH, FL 3346 STANDARD DETAILS

RECORD OF REVISION

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ALEXANDER ROJAS, PE
REGISTERED ENGINEER NO. 75704
STATE OF FLORIDA

SCALE: AS SHOWN

DESIGNED: F. I.

DRAWN: G. R.

CHECKED: A. R.

DATE: 02/14/20

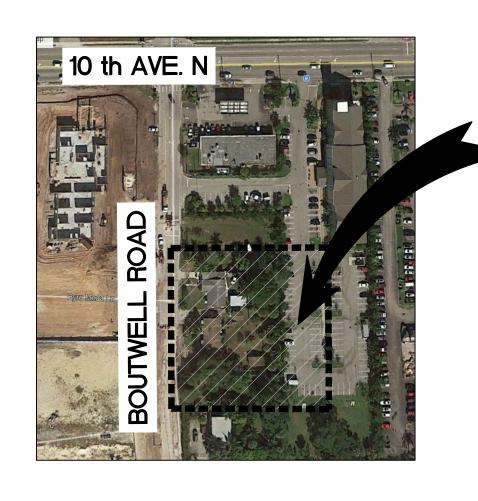
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LEGEND

## SECTION 20 T44S-R43E



LOCATION MAP

FOR ALL PROJECT WHERE REMOVAL OF UTILITY LINES IS PROPOSED

. ALL EXISTING UTILITIES BEING REMOVED AND/OR RELOCATED MUST REMAIN ACTIVE AND IN SERVICE, UNTIL SUCH TIME WHEN NEW REPLACING UTILITIES HAVE BEEN INSTALLED, IN SERVICE ACCEPTED BY THE DEPARTMENT AND ALL RELATED SERVICES FROM THE EXISTING MAINS HAVE BEEN TRANSFERRED TO THE NEW ONES, BY THE CITY OF LAKE WORTH FORCES AT OWNER'S EXPENSE AS APPLICABLE.

2. ALL WATER AND/OR SEWER FACILITIES LOCATED IN PRIVATE PROPERTY SHALL BE REMOVED AFTER ALL INSTALLÉD SERVICES FROM THEM HAVE BEEN TRANSFERRED TO THE ALREADY INSTALLED AND IN SERVICE NEW MAINS. ANY ASSOCIATED EXCLUSIVE EASEMENTS SHALL BE CLOSED AND RELEASED AFTER THE REMOVAL OF THE EXISTING WATER AND/OR SEWER FACILITIES.

### DRAWINGS INDEX

	DIAMINOS INDEX
SHEET No.	SHEET DESCRIPTION
C-WS001	WATER MAIN COVER SHEET
C-WS002	GENERAL NOTES
C-WS101	WATER & SEWER PLAN
C-WS102	SANITARY SEWER STANDARD DETAILS
C-WS103	SANITARY SEWER STANDARD DETAILS
C-WS104	WATER STANDARD DETAILS

## Sunshine

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

**PROPERTY** 

SUBJECT

EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND "SUNSHINE STATE ONE CALL OF FLORIDA, TO LOCATE ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES DURING CONSTRUCTION AND RESETTING UTILITIES TO NEW GRADE AND SLOPE WITHIN THE LIMITS OF CONSTRUCTION.

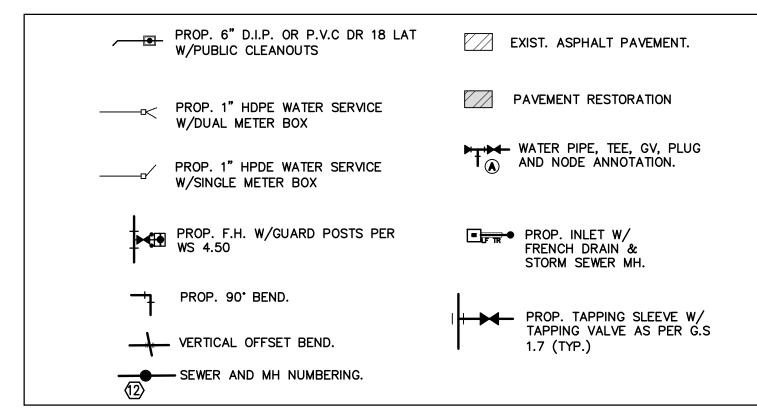
- SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE PROVISIONS OF THE FLORIDA TRENCH SAFETY ACT, THE FLORIDA UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, AND ALL APPLICABLE O.S.H.A. REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY PRECAUTIONS WHEN WORKING IN THE VICINITY OF OVERHEAD ELECTRIC LINES.
- MAINTENANCE OF TRAFFIC. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC (MOT) PLANS. PREPARED BY A WORK SITE TRAFFIC SUPERVISOR AS THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION, PRIOR TO COMMENCING CONSTRUCTION WITHIN CITY OF LAKE WORTH
- ACCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES. WARRANTY. ALL WORK, MATERIALS, OR EQUIPMENT SHALL BE WARRANTIED FOR A MINIMUM OF ONE YEAR, FROM THE DATE OF FINAL ACCEPTANCE BY THE CITY OF LAKE WORTH, AGAINST DEFECTIVE MATERIALS AND/OR WORKMANSHIP. ALL WORK FOUND TO BE DEFECTIVE WILL BE REPLACED BY THE
- CONTRACTOR AT NO EXPENSE TO THE CITY OF LAKE WORTH. SHOP DRAWINGS. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF SEVEN (7) COPIES (OR MORE, IF REQUIRED) OF SHOP DRAWINGS, PRODUCT DATA, MATERIAL SPECIFICATIONS AND OTHER INFORMATION REGARDING CONSTRUCTION MATERIALS AND STRUCTURES AS REQUESTED BY THE ENGINEER OF RECORD OR THE CITY OF LAKE WORTH. SHOP DRAWINGS MUST BE NEWLY PREPARED INFORMATION, DRAWN TO ACCURATE SCALE. STANDARD INFORMATION PREPARED WITHOUT SPECIFIC REFERENCE TO THE PROJECT WILL BE RETURNED TO THE CONTRACTOR WITHOUT REVIEW. SHOP DRAWINGS
  - A. BY SUBMITTAL OF ANY SHOP DRAWING OR CATALOG DATA, BEARING AN APPROVAL STAMP, THE CONTRACTOR REPRESENTS THAT IT HAS DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIALS, DIMENSIONS, CATALOG NUMBERS AND SIMILAR DATA, OR WILL DO SO, AND THAT IT HAS CHECKED AND COORDINATED EACH ITEM WITH OTHER APPLICABLE APPROVED SHOP DRAWINGS AND THE
- B. SHOP DRAWINGS AND CATALOG DATA SUBMITTED WITHOUT THE CONTRACTOR'S STAMP OF APPROVAL WILL BE RETURNED TO THE CONTRACTOR WITHOUT REVIEW. APPROVAL OF SHOP DRAWINGS, SAMPLES, OR CATALOG DATA BY THE ENGINEER OF RECORD OR THE CITY OF LAKE WORTH SHALL NOT AUTHORIZE ANY DEVIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- C. ANY PROPOSED SUBSTITUTE OR EQUAL TO THE THAT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE ACCOMPANIED BY CALCULATIONS SUBSTANTIATING EQUIVALENCY. SHOP DRAWINGS WITH SUBSTITUTE MATERIALS NOT ACCOMPANIED BY CALCULATIONS WILL BE RETURNED D. THE CONTRACTOR SHALL CONFIRM COMPATIBILITY OF PIPE SLOPES AND INVERTS DURING THE SHOP DRAWING AND MATERIALS ORDERING PHASE OF
- THE PROJECT AND ADVISE THE ENGINEER OF RECORD IN WRITING OF ANY DISCREPANCIES. E. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOG LITERATURE WILL NOT BE ACCEPTED FOR PRECAST FIELD REVIEWS. THE CONTRACTOR SHALL PROVIDE NOTIFICATION, 48 HOURS (MIN.), PRIOR TO ANY REQUIRED FIELD REVIEWS OR INSPECTIONS AND SHALL
- SUPPLY ALL NECESSARY EQUIPMENT, LABOR, AND MATERIALS FOR INSPECTION AND/OR TEST. ALL WORK SHALL BE OPEN AND SUBJECT TO REVIEW AND/OR INSPECTION BY AUTHORIZED PERSONNEL OF THE CITY OF LAKE WORTH AND THE ENGINEER OF RECORD. DENSITY TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TESTING TO ENSURE THAT THE PROPER COMPACTION HAS
- BEEN ACHIEVED FOR ALL SUBGRADE, BASE MATERIAL, PIPE BASE MATERIAL, BACKFILL, & ALL OTHER AREAS WHERE COMPACTION REQUIREMENTS ARE SPECIFIED. ALL TEST RESULTS SHALL BE SIGNED & SEALED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER AND COPIES SHALL BE PROVIDED TO THE ENGINEER OF RECORD AND THE CITY OF LAKE WORTH.
- PERMITS. THE CONTRACTOR SHALL NOT COMMENCE CONSTRUCTION PRIOR TO RECEIPT OF ALL APPLICABLE PERMITS AND APPROVALS INCLUDING AN APPROVED MAINTENANCE OF TRAFFIC PLAN. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE REQUIREMENTS OF THE PERMITS AND AGENCY EROSION CONTROL. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH FDOT INDICES 102, 103 AND 106, THE FDEP NATIONAL
- POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT (IF APPLICABLE), AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). FILTER FABRIC, HAY BALES, OR ROCK BAGS SHALL BE INSTALLED IN EACH INLET THROUGHOUT THE CONSTRUCTION PERIOD. A SOIL TRACKING PREVENTION DEVICE (STPD) SHALL CONSTRUCTED AT ALL UNSTABILIZED CONSTRUCTION ACCESS POINTS, PER FDOT INDEX NO. 106. STORM DRAINAGE. ALL STORM DRAINAGE PIPE JOINTS SHALL BE WRAPPED IN FILTER FABRIC PER FDOT STANDARD INDEX NO. 280. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- ALL GRATES SHALL BE SECURED TO THE STRUCTURES WITH AN EYEBOLT AND CHAIN. ALL STORM DRAINAGE SHALL BE FREE OF SILT AND SEDIMENT AT THE TIME OF FINAL ACCEPTANCE BY THE CITY OF LAKE WORTH. DEWATERING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ANY DEWATERING PERMITS AND/OR APPROVALS NECESSARY FOR CONSTRUCTION. NO WATER FROM DEWATERING MEASURES SHALL BE DISCHARGED OFF-SITE. ALL DISCHARGE SHALL BE CONTAINED IN
- SIDEWALKS. ALL SIDEWALKS SHALL BE CONSTRUCTED TO MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CHAPTER 11 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION. ALL CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 304 (TRUNCATED DOMES) IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 304 AND THE FLORIDA BUILDING CODE, CHAPTER 11 - ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION. ALL SIDEWALKS SHALL BE BROOM FINISHED WITH AN EVEN, DUSTLESS SURFACE AND SHALL BE FREE OF CRACKS AT TIME OF FINAL ACCEPTANCE BY THE CITY OF LAKE WORTH.
- PAVEMENT. WHERE FULL-DEPTH PAVEMENT REPLACEMENT IS SPECIFIED, EXISTING BASEROCK MAY NOT BE RE-USED, HOWEVER IT MAY BE UTILIZED AS SUBGRADE STABILIZATION MATERIAL. ALL SUBGRADE SHALL BE FREE OF MUCK, ROOTS, UNDERBRUSH, VEGETATIVE MATTER, GARBAGE, TRASH, OR ANY OTHER UNSUITABLE MATERIALS. BASEROCK AND ASPHALT SHALL BE PLACED IN MULTIPLE LIFTS AND SHALL BE PLACED IN ACCORDANCE WITH THE APPLICABLE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. FINAL LIFT OF ASPHALT SHALL PROVIDE A
- UNIFORM FINISH AND SHALL BE PLACED TO CORRECT MINOR IMPERFECTIONS IN THE FIRST LIFT AND TO PROVIDE POSITIVE DRAINAGE FOR THE ROADWAY. SIGNING AND PAVEMENT MARKING. ALL PAVEMENT MARKINGS WITHIN CITY OF LAKE WORTH RIGHT-OF-WAY SHALL BE THERMOPLASTIC. THERMOPLASTIC SHALL NOT BE INSTALLED ON PAVEMENT UNTIL A MINIMUM OF FIVE CALENDAR DAYS AFTER THE FINAL LIFT OF ASPHALT HAS BEEN COMPLETED. BLUE/BLUE REFLECTIVE PAVEMENT MARKERS (RPM) SHALL BE INSTALLED TO INDICATE THE LOCATION OF ALL FIRE HYDRANTS.

	*****

**GENERAL NOTES** 

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### WATER AND SEWER GENERAL LEGEND



Consulting

Engineering LLC C.A. #32294 3921 NEW VALENCIA

(561) 891-5124

GREENACRES, FL 33462

EMAIL:ar.tyg.75704@gmail.com

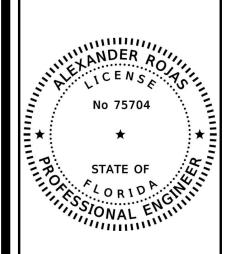
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ALEXANDER ROJAS, PE REGISTERED ENGINEER NO. 75704 STATE OF FLORIDA

SCALE: AS SHOWN DESIGNED: F.I.

DRAWN: G. R.CHECKED: A.R.

DATE: 02/14/20 PROJECT NO:

1 OF 6

CONTACT PERSON INFORMATION NAME: <u>Alexander Rojas, PE</u> TELEPHONE NUMBER: <u>561-891-5124</u> E-MAIL ADDRESS: ar.tyg.75704@gmail.com

### NOT PART OF C. L. W. NOTES NOR APPROVAL

### OTFS:

- 1. ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL CONFORM TO THE CITY OF LAKE WORTH DEPARTMENT OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS
- 2. ELEVATIONS SHOWN ARE RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88.
- 3. UNDERGROUND UTILITY INFORMATION IS TAKEN FROM THE BEST AVAILABLE SOURCES, BUT MUST BE VERIFIED BY CONTRACTOR IN THE FIELD WITH THE APPROPRIATE UTILITY AGENCIES PRIOR TO COMMENCENT OF ANY WORK.
- 4. EXISTING UTILITY LINES OTHER THAN THOSE INDICATED IN THIS DRAWING MAY BE ON SITE. THE CONTRACTOR IS WARNED TO PROCEED WITH CAUTION WITH ALL WORK. HE IS TO MAKE ALL POSSIBLE INVESTIGATIONS AS TO POSSIBLE UNMARKED UTILITY
- 5. CONTRACTOR SHALL ADJUST ANY UTILITY LIDS AND/OR COVERS IN PROJECT AREA TO THE FINISHED GRADE.
- 6. ANY APPARENT DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 7. THE CONTRACTOR SHALL RESTORE ALL EXISTING PAVEMENT, UTILITIES, (ABOVE AND BELOW GROUND), AND SURFACE FEATURES DISTURBED DURING CONSTRUCTION TO A CONDITION EQUAL TO, OR BETTER THAN THE EXISTING IN ACCORDANCE WITH LAKE WORTH PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS.
- 8. PROVIDE PAVEMENT RESTORATION AS PER THE LAKE WORTH PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS.
- 9. WATER MAINS AND SANITARY SEWER LINES MUST MAINTAIN A MINIMUM SEPARATION FROM EACH OTHER AS PER HEALTH DEPARTMENT NOTES
- 10. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING HIMSELF WITH THE EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
- 11. DIMENSIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE, FOR EXACT DIMENSIONS, SEE FINAL PLAT OR SITE PLAN PREPARED BY A REGISTERED LAND SURVEYOR OR THE ARCHITECT. FIELD LAYOUT WORK SHALL BE AS PER THE FINAL PLAT AND SITE PLAN MENTIONED ABOVE AND SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR
- 12. THE ENGINEER IS NOT RESPONSIBLE FOR COORDINATING THE WORK OF OTHER UTILITIES, SUB-CONSULTANTS OR TRADES. IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE COORDINATION FOR, BUT NOT LIMITED TO, THE LOCATION OF WATER, SEWER, AND DRAINAGE UTILITIES, AS WELL AS THE SERVICES, WITH THE LOCATION OF DRIVEWAYS, SIDEWALKS, RAMPS, LANDSCAPING, OTHER INFRASTRUCTURE IMPROVEMENTS AND OTHER SURFACE FEATURES.
- 13. EXTEND SEWER LATERALS 2 FEET INTO PROPERTY LINE
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR SHEATHING WHERE REQUIRED.
- 15. BLUE 2" X 4" MARKER TO BE INSTALLED AT EACH WATER
- 16. GREEN 2" X 4" MARKER TO BE INSTALLED AT EACH SEWER SERVICE.
- 17. UTILITY CONDUITS TO BE MARKED.

### UNDERGROUND CONTRACTORS:

- A.— UNDERGROUND CONTRACTOR SHALL COMPLY WITH THE TRENCH SAFETY ACT, HB 3183, FLORIDA STATUTES, WHICH INCORPORATES, BUT IS NOT LIMITED TO, THE FOLLOWING:
  - 1.— OSHA STANDARD 29 C.F.R. PART 1926, SUBPART P, EXCAVATION AND
  - 2.— CONTRACT BIDS FOR TRENCH EXCAVATIONS (IN EXCESS OF 5 FEET DEEP ) SHALL INCLUDE REFERENCE TO THE SAFETY STANDARDS, WRITTEN ASSURANCE OF COMPLIANCE, AND A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE.
  - 3.— ADHERE TO ANY SPECIAL SHORING REQUIREMENTS OF THE STATE OR OTHER POLITICAL SUBDIVISION.
- B.— ENGINEER IS NOT RESPONSIBLE FOR THE SAFETY OF THE EXCAVATION OR DESIGN AND CONSTRUCTION OF ANY SHORING.

### HEALTH DEPARTMENT NOTES:

WATER MAIN HORIZONTAL SEPARATIONS

SEPARATIONS SHALL BE MEASURED OUTSIDE EDGE TO OUTSIDE EDGE BETWEEN WATER MAINS AND, STORM SEWERS, STORMWATER FORCE MAINS, OR RECLAIMED WATER LINES, <u>SHALL</u> <u>BE 3 FT MINIMUM.</u>

BETWEEN WATER MAINS AND VACUUM TYPE SEWER PREFERABLY 10 FT, AND AT LEAST 3 FT MINIMUM.

GRAVITY OR PRESSURE SANITARY SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER <u>PREFERABLY 10 FT AND AT LEAST 6 FT MAY BE REDUCED TO 3 FT.</u> WHERE <u>BOTTOM</u> OF WATER MAIN IS <u>AT LEAST 6 INCHES ABOVE TOP OF SEWER.</u>

10 FT TO ANY PART OF ON-SITE SEWER TREATMENT OR DISPOSAL SYSTEM.

WATER MAIN VERTICAL SEPARATIONS

SEPARATIONS BETWEEN WATER MAINS AND GRAVITY SEWER, VACUUM TYPE SEWER, OR STORM SEWERS, TO BE PREFERABLY 12 INCHES OR AT LEAST 6 INCHES ABOVE OR AT LEAST 12 INCHES IF BELOW.\*

PRESSURE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR RECLAIMED WATER, AT LEAST 12 INCHES ABOVE OR BELOW.\*

\* NOTE: CENTER 1—FULL LENGTH OF WATER MAIN PIPE AT CROSSINGS: ALTERNATIVELY ARRANGE PIPES SO

\* NOTE: CENTER 1-FULL LENGTH OF WATER MAIN PIPE AT CROSSINGS; ALTERNATIVELY ARRANGE PIPES SO JOINTS ARE AT LEAST 3 FEET FROM JOINTS IN VACUUM, STORM OR STORM FORCE MAINS, AT LEAST 6 FEET FROM JOINTS IN GRAVITY OR PRESSURE SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER.

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Consulting
Engineering LLC

C.A. #32294

3921 NEW VALENCIA, GREENACRES, FL 33462 (561) 891-5124

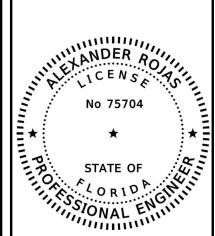
EMAIL:ar.tyg.75704@gmail.com

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JTWELL RD. LAKE WORTH, FL 334

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ALEXANDER ROJAS, PE
REGISTERED ENGINEER NO. 75704
STATE OF FLORIDA

SCALE: N.T.S

DESIGNED: F. I.

DRAWN: G. R.

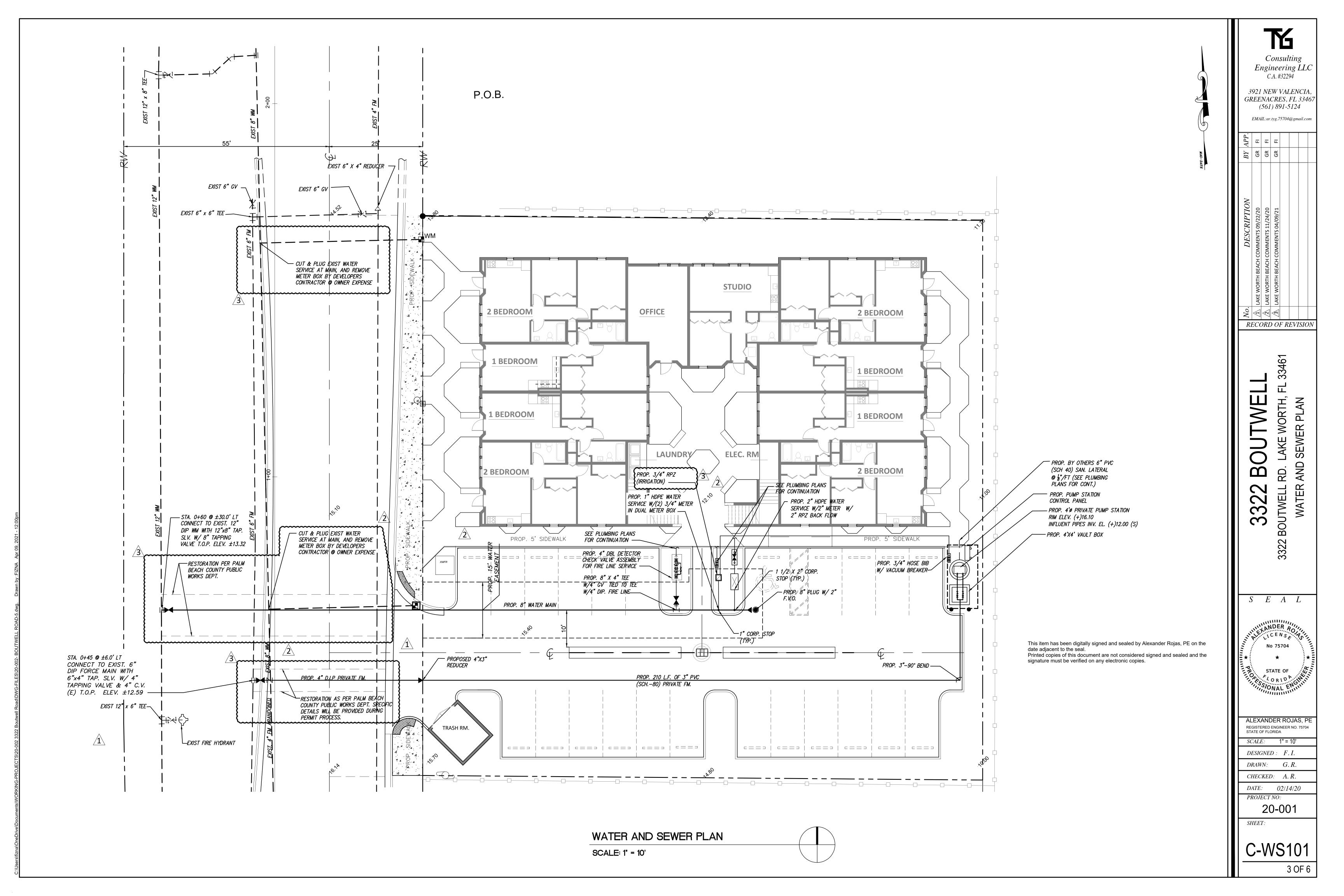
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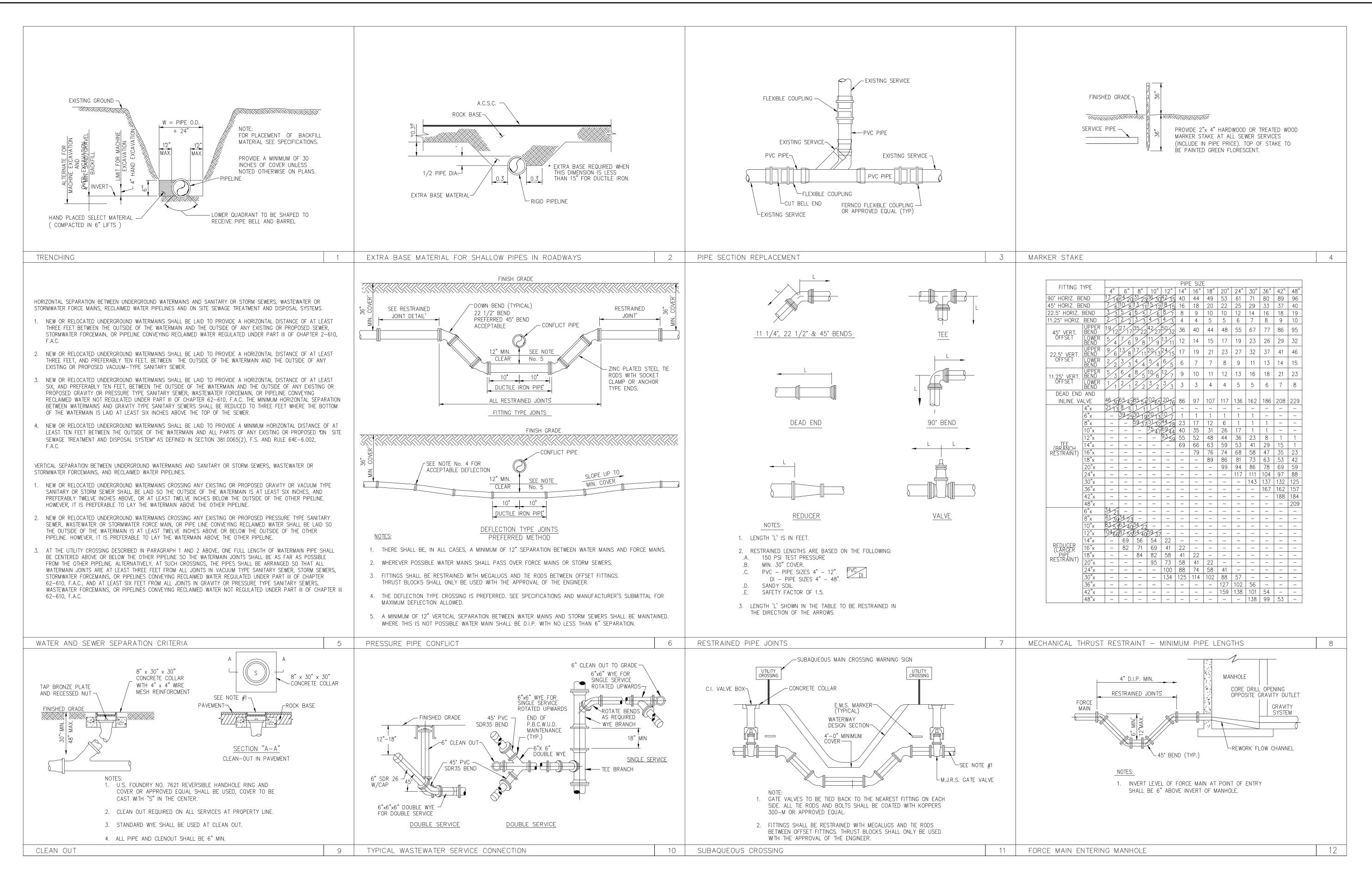
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Consulting
Engineering LLC
C.A. #32294

3921 NEW VALENCIA,
GREENACRES, FL 33467
(561) 891-5124

EMAIL:ar.tyg.75704@gmail.com

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VORTH, FL 33461

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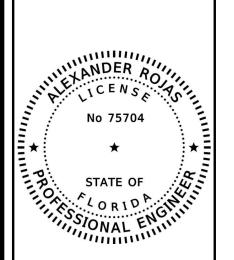
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ALEXANDER ROJAS, PE
REGISTERED ENGINEER NO. 75704
STATE OF FLORIDA

SCALE: N.T.S.

DESIGNED: F. I.

DRAWN: G. R.

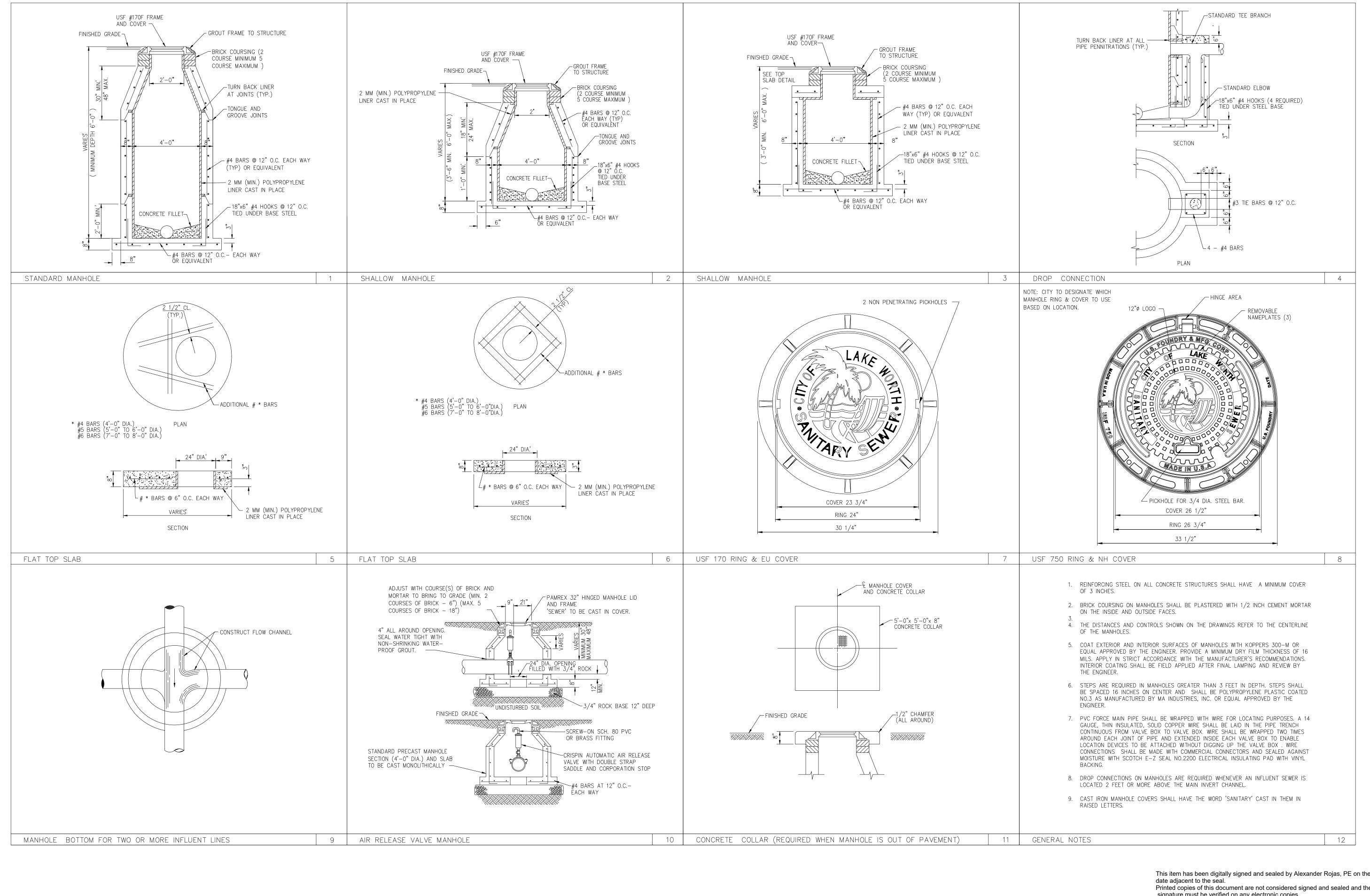
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3921 NEW VALENCIA GREENACRES, FL 33462

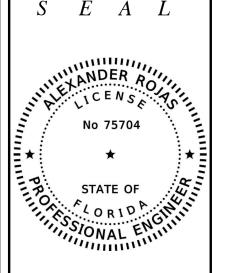
(561) 891-5124

EMAIL:ar.tyg.75704@gmail.com

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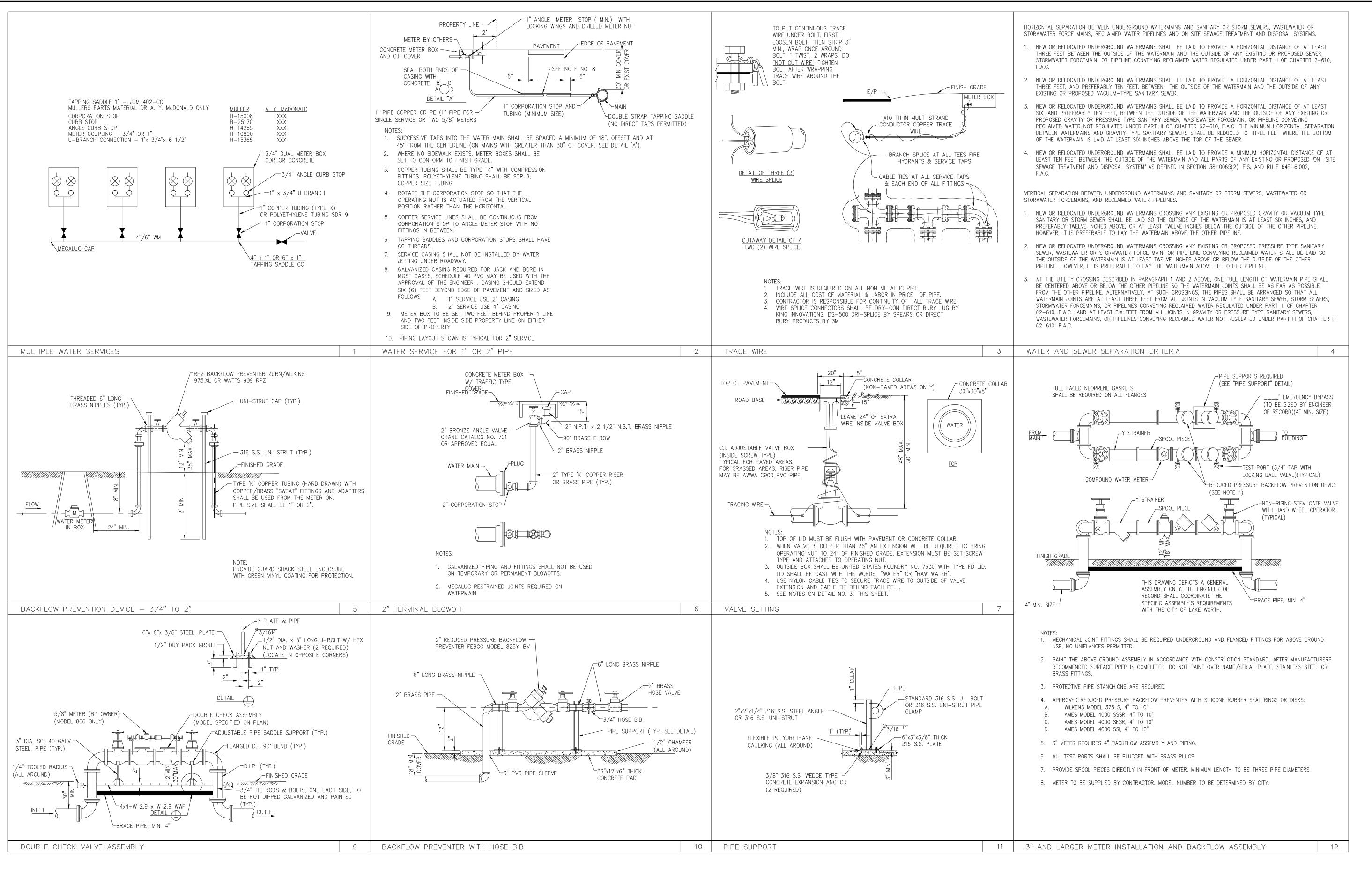
ALEXANDER ROJAS, PE REGISTERED ENGINEER NO. 75704 STATE OF FLORIDA

SCALE: N.T.S. DESIGNED: F.I.

DRAWN: G. R.

CHECKED: A.R.DATE: 02/14/20

PROJECT NO: 20-001



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Consulting Engineering LLC C.A. #32294 *3921 NEW VALENCIA* GREENACRES, FL 3346 (561) 891-5124 EMAIL:ar.tyg.75704@gmail.com 37 | GR | GR | RECORD OF REVISION DARD RD  $\Box$ 3  $S \quad E \quad A \quad L$ 

ALEXANDER ROJAS, PE REGISTERED ENGINEER NO. 75704 STATE OF FLORIDA

SCALE: N.T.S. DESIGNED: F.I.DRAWN: G. R.

CHECKED: A.R.

DATE: 02/14/20 PROJECT NO:

20-001