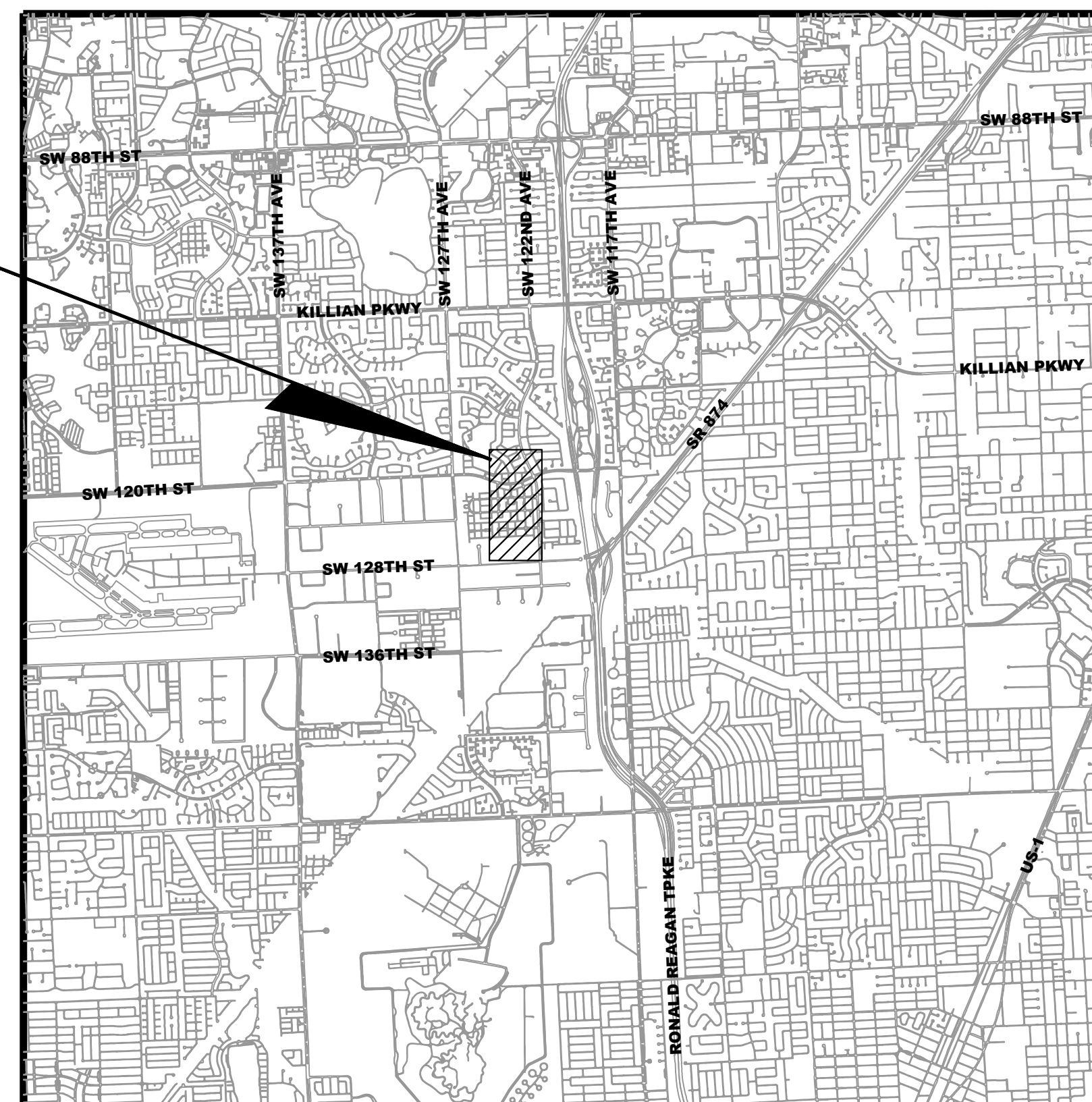
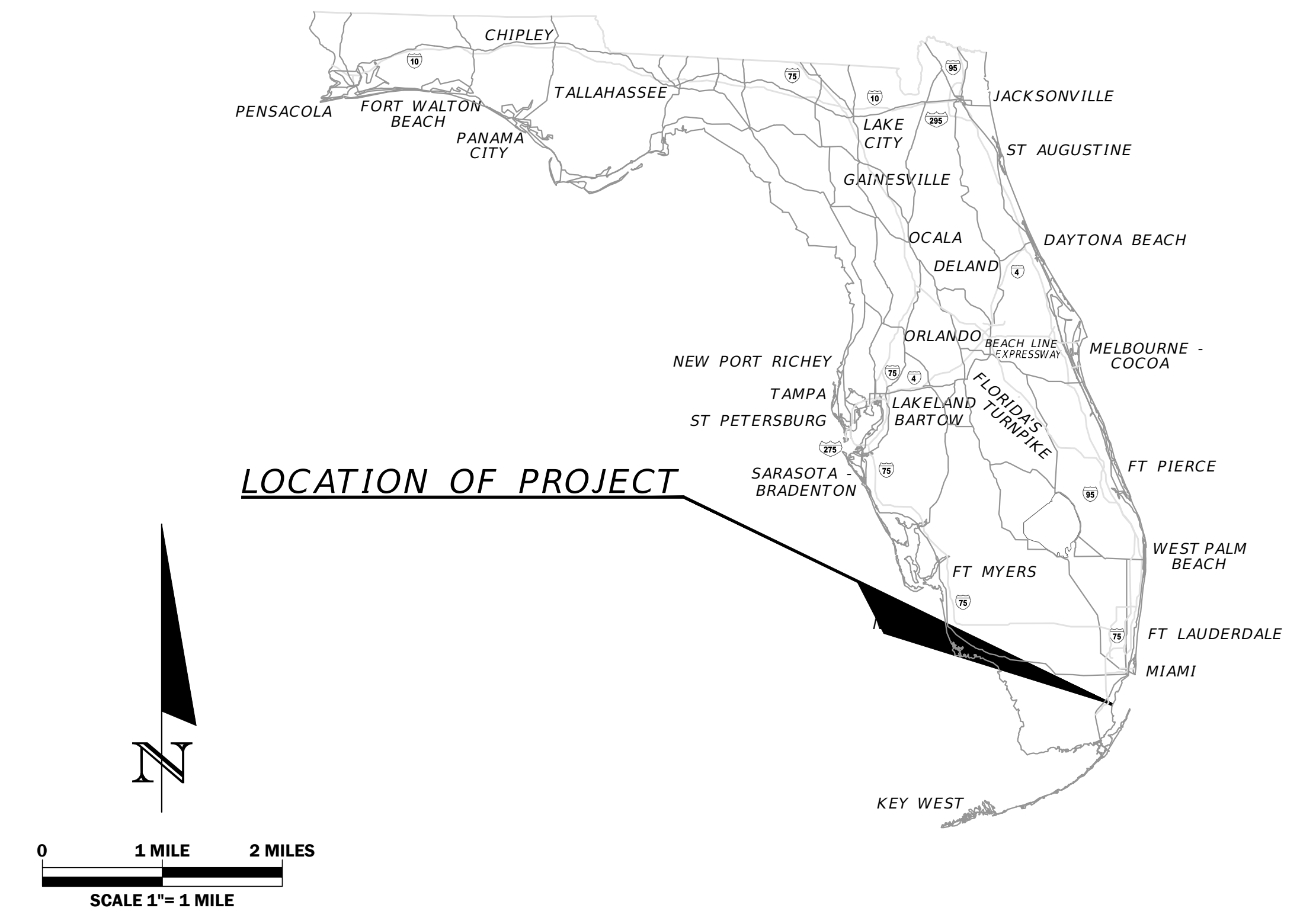


CITY OF MIAMI  
MIAMI-DADE COUNTY, FLORIDA 33186

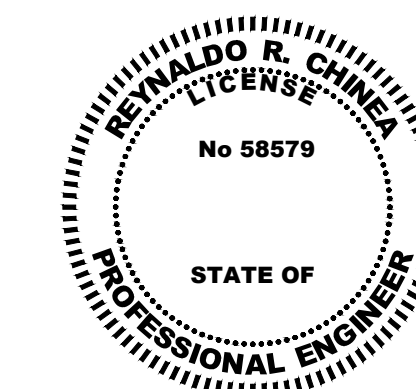
| SHEET NO. | SHEET DESCRIPTION                                      |
|-----------|--------------------------------------------------------|
| 1         | COVER SHEET                                            |
| 2         | PROP. DRAINAGE IMPROVEMENTS AT<br>SW 12151 SW 122 PATH |
| 3-5       | STORMWATER POLLUTION PREVENTION PLANS                  |
| 6         | GENERAL NOTES                                          |
| 7         | DETAILS SHEET                                          |
| 8         | TABULATION OF QUANTITIES                               |



THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS PARTS 1, 2 AND 3. THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS. THE FLORIDA DEPARTMENT OF TRANSPORTATION CURRENT ROADWAY AND TRAFFIC DESIGN STANDARDS, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AS AMENDED BY CONTRACT DOCUMENTS.



**FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538**  
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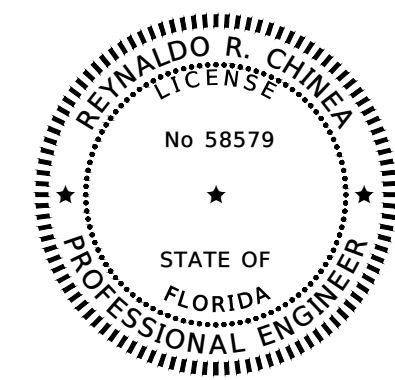
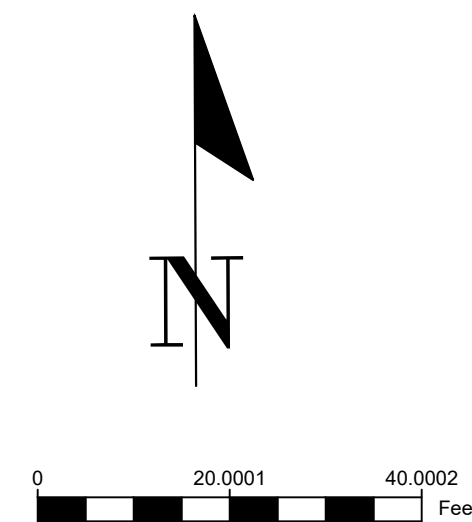
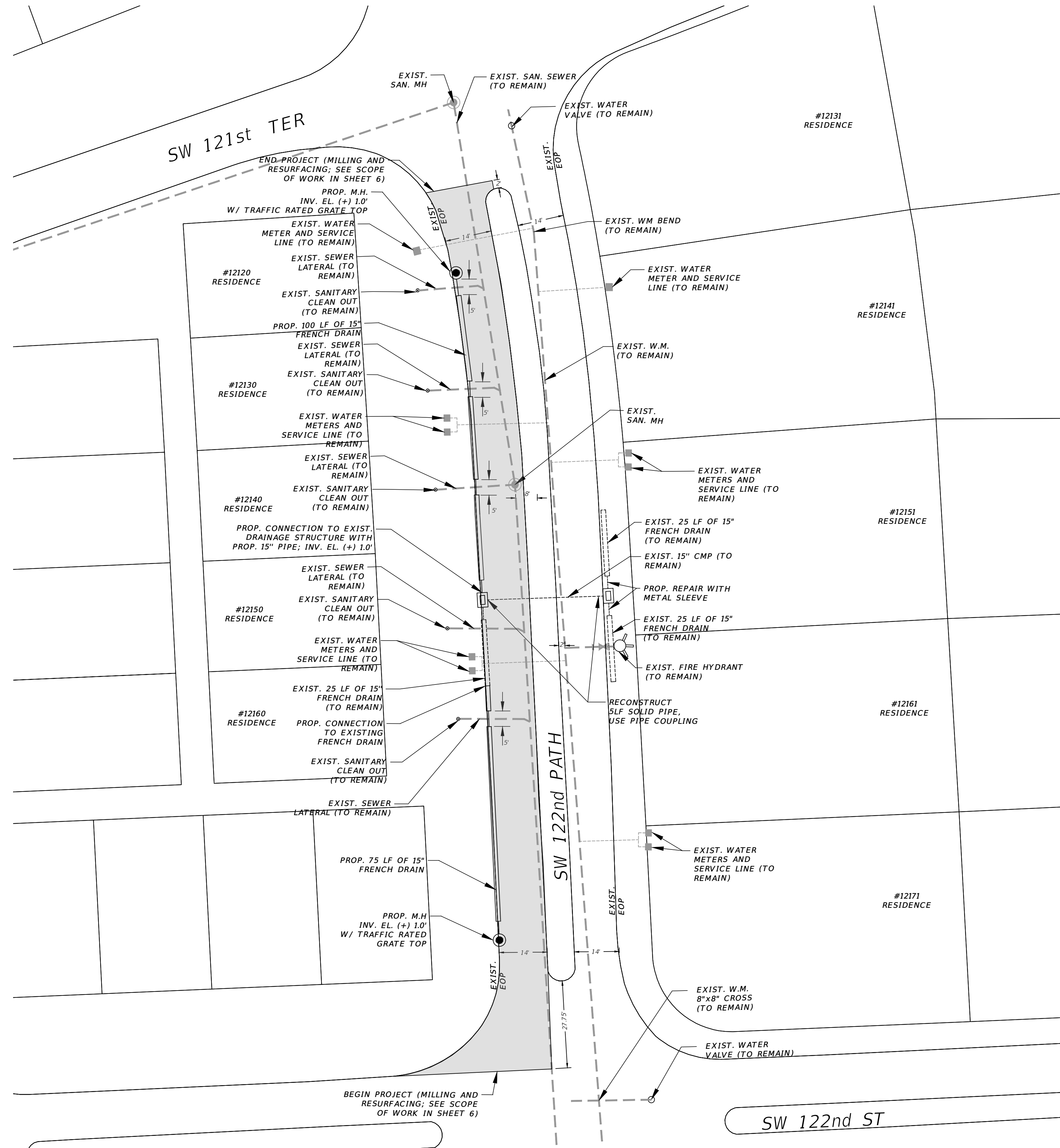


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REYNALDO R. CHINEA  
P.E. NO. 58579  
ALVAREZ ENGINEERS, INC  
8935 NW 35 Lane, Suite 101  
MIAMI, FLORIDA 33172

# FINAL PLANS JULY 8, 2024

SHEET  
NO.



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**LEGEND**

$\frac{3}{4}$ " MILLING & 1" PAVING

| REVISIONS |             |      |             | Alvarez Engineers, Inc.<br>FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538<br>8935 N.W. 35 Lane, Suite 101<br>Miami, Florida 33172<br>Tel. (305) 640-1345 Fax (305) 640-1346 | KENDALL BREEZE CDD<br>DRAINAGE IMPROVEMENTS | PROP. DRAINAGE<br>IMPROVEMENTS AT<br>SW 12151 SW 122 PATH | SHEET<br>NO.<br><br>2 |
|-----------|-------------|------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------|-----------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                            |                                             |                                                           |                       |
|           |             |      |             |                                                                                                                                                                            |                                             |                                                           |                       |

STORMWATER POLLUTION PREVENTION PLAN

NARRATIVE DESCRIPTION

THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE DESCRIPTION CONTAINS REFERENCES TO THE CONTRACT DOCUMENTS, THE FDOT DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF SEVERAL ITEMS INCLUDING: THIS NARRATIVE DESCRIPTION, THE REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN (ECP) PREPARED AND SUBMITTED IN ACCORDANCE WITH SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS MODIFIED BY THE CONTRACT DOCUMENTS, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1. SITE DESCRIPTION

A. NATURE OF CONSTRUCTION ACTIVITIES:

THE PROJECT IS LOCATED AT SW 12151 SW 122 PATH AND INCLUDES CLEARING AND GRUBBING, EARTHWORK, PAVEMENT AND GRADING, STORM SEWER, STORM DRAINAGE STRUCTURES, PIPES AND EXFILTRATION TRENCHES UTILITIES..

B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

THE CONTRACTOR SHALL PROVIDE IN THE ECP A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. EACH CONSTRUCTION LOCATION REQUIRES THE INSTALLATION OF PERIMETER CONTROL, AFTER CLEARING AND GRUBBING AS NECESSARY FOR THE INSTALLATION OF THE CONTROLS, PRIOR TO BEGINNING ANY WORK. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

- a. CLEARING AND GRUBBING, AND EARTHWORK ASSOCIATED WITH THE CONSTRUCTION IMPROVEMENTS
- b. STORM DRAINAGE INCLUDING INLETS, PIPES AND FRENCH DRAINS..
- c. FINAL GRADING, PAVEMENT AND LANDSCAPING.

C. AREA ESTIMATES (ACRE)

- a. TOTAL BASIN AREA: 0.116
- b. TOTAL AREA OF THE SITE THAT IS EXPECTED TO BE DISTURBED: 0.116

D. EXISTING DATA DESCRIBING THE SOIL OR THE QUALITY OF ANY DISCHARGE FROM THE SITE AND AN ESTIMATE OF THE SIZE OF THE DRAINAGE AREA FOR EACH DISCHARGE POINT:

a. RATIONAL RUNOFF COEFFICIENT:

- i. BEFORE: N/A
- ii.DURING: VARIES FROM N/A
- iii.AFTER CONSTRUCTION: N/A

b. EXISTING DATA DESCRIBING THE SOIL OR THE QUALITY OF DISCHARGE FROM THE SITE:

PER THE UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE SOIL SURVEY REPORT OF DADE COUNTY AREA, FLORIDA, THE SOILS ENCOUNTERED ON THE PROJECT ARE URBAN LAND SOIL, WHICH ARE CATEGORIZED AS MODERATELY WELL DRAINED.

E. SITE MAP: THE ASSOCIATED CONSTRUCTION PLAN SHEETS (SHEET 1) WILL BE USED AS THE SITE MAP. LOCATIONS OF THE REQUIRED INFORMATION ARE DESCRIBED BELOW. THE SHEET NUMBERS FOR ALL ITEMS DISCUSSED ARE IDENTIFIED ON THE COVER SHEET OF THE CONSTRUCTION PLANS AND CROSS SECTIONS PLANS.

- a. DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER MAJOR GRADING ACTIVITIES: THE EXISTING SLOPES OF THE SITE WILL NOT CHANGE WITH THE CONSTRUCTION PLAN .
- b. AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE CONSTRUCTION PLAN. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.
- c. AN OUTLINE OF AREAS WHICH MAY NOT BE DISTURBED: THESE AREAS OF THE PROJECT OUTSIDE THE CLEARING AND GRUBBING AND CONSTRUCTION ACTIVITIES WHICH ARE COMPRISED OF THOSE THAT ARE NOT SUBJECT TO ANY SOIL DISTURBING ACTIVITIES.
- d. THE LOCATION OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS IDENTIFIED IN THE PLAN: TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AT ALL LOCATIONS WHERE DISTURBANCE OF SOILS WILL OCCUR. ADDITIONAL MEASURES MAY BE REQUIRED AS NECESSARY WHERE STORMWATER RUNOFF HAS THE POTENTIAL TO REACH SURFACE WATERS OR OFFSITE STORMWATER COLLECTION FACILITIES.
- e. THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS, WETLANDS AND LOCATIONS WHERE STORMWATER IS DISCHARGED TO A SURFACE WATER OR MS4: N/A

2. CONTROLS

A. EROSION AND SEDIMENT CONTROLS: THE CONTRACTOR SHALL DESCRIBE IN THE ECP THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES. THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE ECP, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER MANAGEMENT PRACTICES. FOR EACH CONSTRUCTION PHASE INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED. IN ADDITION:

- i. FURNISH AND PLACE ROCK BAGS TO CONTROL EROSION AND SILTATION.
- ii. INSTALL SOIL TRACKING PREVENTION DEVICES (STPDS) AT ALL COMMON AREAS WHERE CONSTRUCTION VEHICLES WILL BE ENTERING AND EXITING THE CONSTRUCTION SITE.
- iii. INSTALL SILT FENCE THROUGHOUT THE PROJECT LIMITS AT THE R/W LINES WHERE THERE ARE GREEN AREAS, AT THE TOE OF SLOPE OF EMBANKMENTS AND AT LOCATIONS AS DESCRIBED IN THE EROSION AND SEDIMENT CONTROL DETAILS.
- iv. SEDIMENT FILTERS SHALL BE FOR ALL EXISTING INLETS SUBJECT TO SEDIMENT RUNOFF.
- v. EROSION CONTROL MATS MAY BE UTILIZED AS AN EXTRA MEASURE OF PROTECTION FOR EMBANKMENT OR BERM CONSTRUCTION TO PREVENT EROSION.
- vi. CLEARING AND GRUBBING OPERATIONS WILL BE CONTROLLED TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED.
- vii. EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN LOCATIONS WHERE THE MATERIAL COULD BE WASHED AWAY BY HIGH WATER, RAIN OR STORMWATER RUNOFF. STOCKPILES SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTROL DEVICES.

a. STABILIZATION PRACTICES: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

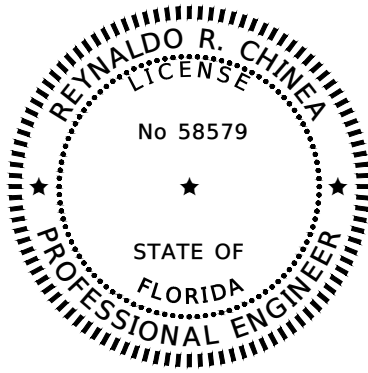
- i. TEMPORARY: INCLUDES SOD, MULCH, AND ARTIFICIAL COVERINGS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ii. PERMANENT: INCLUDES ASPHALT OR CONCRETE SURFACE, SOD, ROADSIDE SWALES, RIP-RAP BOULDERS AND SAND CEMENT BAGS.
- b. STRUCTURAL PRACTICES: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL AND TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- i. TEMPORARY: INCLUDES SILT FENCE, SYNTHETIC BALES, ROCK BAGS, TURBIDITY BARRIERS AND SOIL TRACKING PREVENTION DEVICES PER THE CONTRACT DOCUMENTS. SEE EROSION AND SEDIMENT CONTROL DETAILS FOR MORE INFORMATION. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBING ACTIVITY.

ii. PERMANENT: NOT APPLICABLE TO THIS PROJECT.

B. PERMANENT STORMWATER MANAGEMENT CONTROLS: STORMWATER RUNOFF IS CONVEYED BY PAVEMENT FLOW LINES TO THE PROP. DRAINAGE SYSTEM.

C. CONTROL FOR OTHER POTENTIAL POLLUTANTS: THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING BY INSTITUTING A CLEAN, ORDERLY CONSTRUCTION SITE. THE FOLLOWING CONTROLS SHALL BE IMPLEMENTED TO FURTHER REDUCE POLLUTION AT THE PROJECT SITE:

- a. WASTE DISPOSAL: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:
- i. THE CONTRACTOR SHALL DEMONSTRATE THE PROPER DISPOSAL OF ALL CONSTRUCTION WASTE GENERATED WITHIN THE PROJECT LIMITS. WASTE MAY INCLUDE, BUT NOT BE LIMITED TO, VEGETATION FROM CLEARING AND GRUBBING ACTIVITIES, PACKAGING MATERIALS, SCRAP BUILDING MATERIALS, LITTER FROM TRAVELING PUBLIC, SEWAGE FROM SANITARY FACILITIES, HERBICIDES AND PESTICIDES AND THEIR CONTAINERS, AND HYDROCARBON PRODUCTS. CONTRACTOR SHALL DESIGNATE A WASTE COLLECTION AREA ONSITE AND DELINEATE THE AREA ON THE SWPPP SITE MAP.
- ii. SANITARY/SEPTIC FACILITIES SHALL BE PROVIDED AND MAINTAINED IN A NEAT AND SANITARY CONDITION, FOR THE USE OF THE CONTRACTOR'S EMPLOYEES AS NECESSARY TO COMPLY WITH THE REQUIREMENTS AND REGULATIONS OF THE STATE AND LOCAL BOARDS OF HEALTH. A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS WILL COLLECT ALL SANITARY WASTE FROM PORTABLE UNITS.



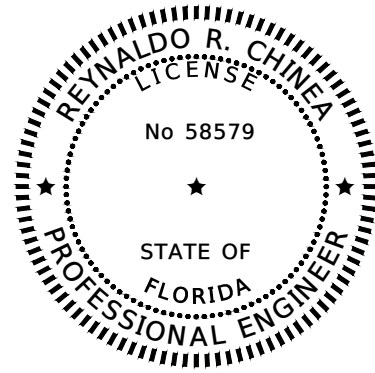
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| REVISIONS |             |      |             | Alvarez Engineers, Inc.                                                                                                                         | KENDALL BREEZE CDD<br>DRAINAGE IMPROVEMENTS | STORMWATER POLLUTION<br><br>PREVENT PLANS | SHEET NO.<br><br>3 |
|-----------|-------------|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------|--------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                 |                                             |                                           |                    |
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- iii. THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES. CONTRACTOR WILL PROVIDE AN ADEQUATE NUMBER OF LITTER CONTAINERS WITH LIDS AT THE STAGING, STOCKPILE AND FIELD OFFICE AREAS (AS APPLICABLE). WASTE COLLECTION WILL BE SCHEDULED SO THAT CONTAINERS ARE EMPTIED PRIOR TO OVERFLOW. SPILLED LITTER CONTAINERS WILL BE CLEANED UP IMMEDIATELY.
- b. OFF-SITE VEHICLE TRACKING & GENERATION OF DUST: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- i. STABILIZING CONSTRUCTION ENTRANCES AS NECESSARY.
- ii. THE CONTRACTOR SHALL TAKE MEASURES TO INSURE THE CLEANUP OF SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORMWATER ABOUT THE SITE OR ONTO NEARBY ROADWAYS.
- iii. REMOVING EXCESS DIRT FROM ROADS DAILY.
- iv. USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.
- v. STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED TO REDUCE OFF-SITE TRACKING.
- vi. LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPULIN. EXCESS DIRT ON THE ROAD SHALL BE REMOVED DAILY.
- c. STATE OR LOCAL REGULATIONS: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL.
- d. TOXIC SUBSTANCES AND MATERIALS.
- i. IN THE ECP, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES AND MATERIALS THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.
- ii. CONTRACTOR SHALL PROVIDE EQUIPMENT NECESSARY TO CONTAIN AND CLEAN UP SPILLS OF HAZARDOUS MATERIALS, INCLUDING PETROLEUM PRODUCTS. SPILLS SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY AFTER THEY OCCUR. SPILLED MATERIAL AND THE EQUIPMENT USED TO CLEAN UP THE SPILL SHALL NOT COME IN CONTACT WITH SURFACE WATERS OR BE INTRODUCED INTO STORMWATER. DISPOSAL OF SURPLUS PRODUCT WILL BE DONE PER MANUFACTURER RECOMMENDED METHOD.
- iii. CONTRACTOR SHALL PROVIDE A PROJECT SPECIFIC HAZARDOUS MATERIALS SPILL CONTROL PLAN IN ORDER TO ADDRESS THE HANDLING OF HYDROCARBON AND HAZARDOUS MATERIALS.
- iv. PETROLEUM PRODUCTS SHALL BE STORED IN COVERED AREAS WITH SECONDARY CONTAINMENT SURROUNDING CONTAINER.
- v. TOXIC/HAZARDOUS MATERIALS EXPOSED DURING CONSTRUCTION ACTIVITIES SHALL BE HANDLED PER THE FDOT CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS MODIFIED BY THE CONTRACT DOCUMENTS.
- D. APPROVED COUNTY AND LOCAL PLANS AND PERMITS.
3. MAINTENANCE: IN THE ECP, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:
- A. SILT FENCE-TWELVE (12) MONTHS, OR AS REQUIRED, REPLACEMENT INTERVAL IN ACCORDANCE WITH CONTRACT'S SPECIFICATIONS.
- B. TURBIDITY BARRIER-AS REQUIRED. REPLACE WHEN DAMAGE TO CURTAIN RENDERS IT INEFFECTIVE (I.E. TORN, UNREPAIRABLE).
- C. SEDIMENT FILTERS AT INLETS-CHECK AGGREGATE AFTER RAINFALL EVENTS. CLEAN AGGREGATE IF CLOGGING OCCURS.
- D. THE MAINTENANCE OF THESE DEVICES SHALL OCCUR UNTIL THE ENGINEER HAS DEEMED AN AREA PERMANENTLY STABILIZED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE EROSION AND SEDIMENT CONTROL DEVICES ONCE THEY HAVE SERVED THEIR PURPOSE.

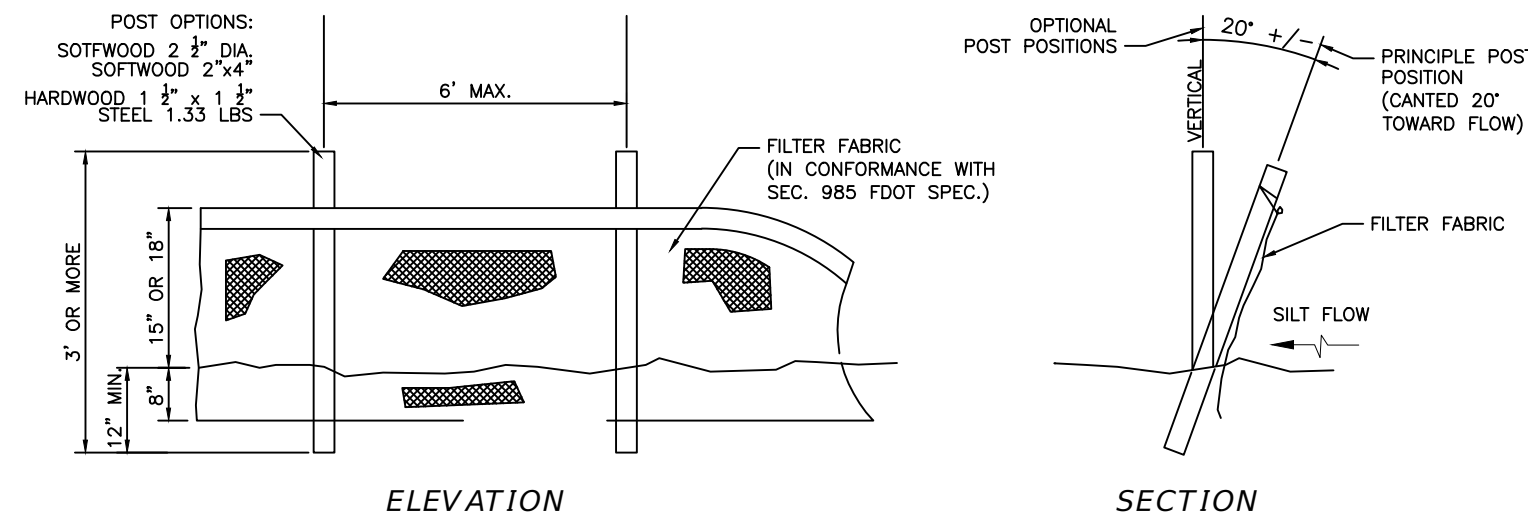
4. INSPECTION
- A. THE CONTRACTOR SHALL BE REQUIRED TO CONDUCT DAILY VISUAL INSPECTIONS OF ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES ALONG THE PROJECT CORRIDOR. THE CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE THESE ITEMS AS NECESSARY.
- B. THE ENGINEER SHALL HAVE AN INSPECTOR REVIEWING THE PROJECT'S TEMPORARY AND PERMANENT EROSION CONTROL MEASURES FOR THE ITEMS LISTED BELOW AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND/OR WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER. A WRITTEN INSPECTION REPORT (FORM ATTACHED) IS REQUIRED EVERY SEVEN CALENDAR DAYS OR WITHIN 24 HOURS OF THE END OF A STORM THAT DEPOSITS 0.5 INCHES OF RAIN OR GREATER.
- a. OUTFALLS INTO THE WATERS OF THE UNITED STATES
- b. POINTS OF DISCHARGE TO MUNICIPAL SEPARATED STORM SEWER SYSTEMS
- c. DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN STABILIZED
- d. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION
- e. STRUCTURAL CONTROLS
- f. STORMWATER MANAGEMENT SYSTEMS
- g. LOCATIONS WHERE VEHICLES ENTER OR EXIT THIS SITE
- h. CHECK THAT THE APPROVED OR REVISED EROSION CONTROL PLAN IS FOLLOWED
- i. WHERE SITES HAVE BEEN STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH.
- C. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.
- D. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.
5. NON-STORMWATER DISCHARGES
- A. IN THE ECP, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION FROM THESE NON-STORMWATER DISCHARGES.
- B. IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR IS TO CEASE OPERATIONS IN THAT AREA. THE CONTRACTOR SHALL CONTACT THE MIAMI-DADE DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) (FORMER DERM) COMPLIANCE DESK, AT (305) 372-6955.
6. CONTRACTOR/SUBCONTRACTOR CERTIFICATION.
- A. FOR EACH MEASURE IDENTIFIED IN THE SWPPP, THE CONTRACTOR AND/OR SUBCONTRACTOR(S) THAT WILL IMPLEMENT THE MEASURE MUST SIGN A COPY OF THE CERTIFICATION STATEMENT, PROVIDED IN APPENDIX A OF THE SWPPP, PRIOR TO CONDUCTING ANY CONSTRUCTION ACTIVITIES AT THE SITE.



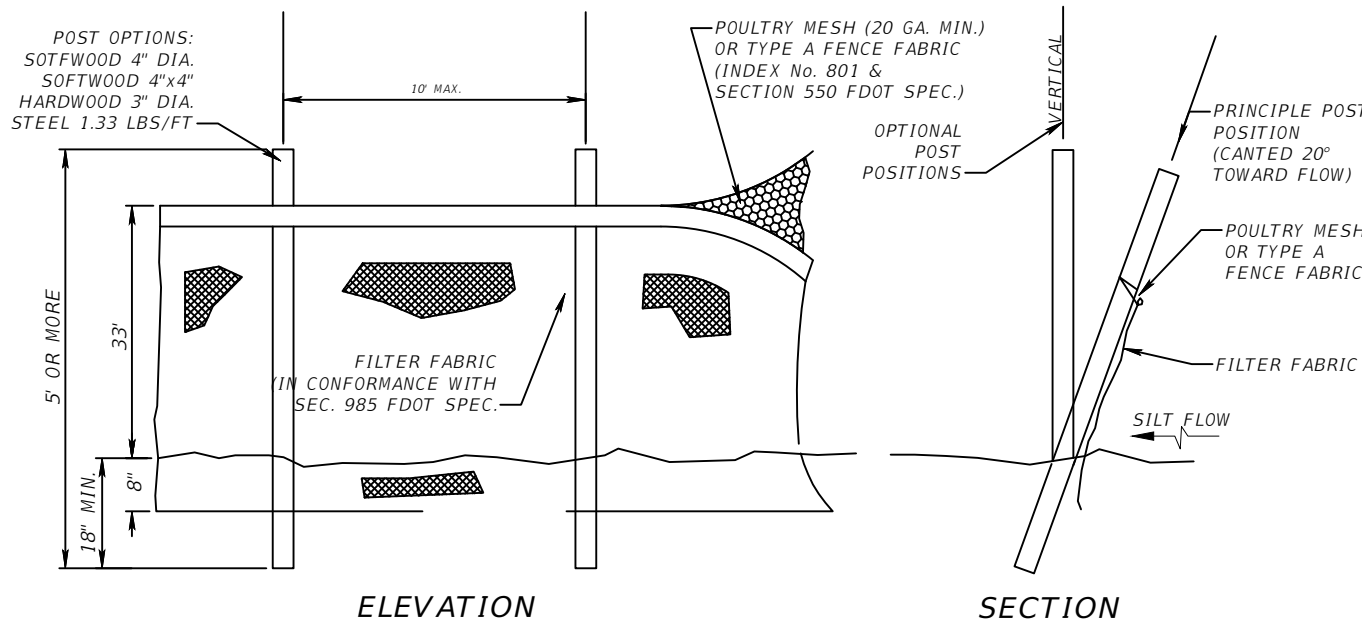
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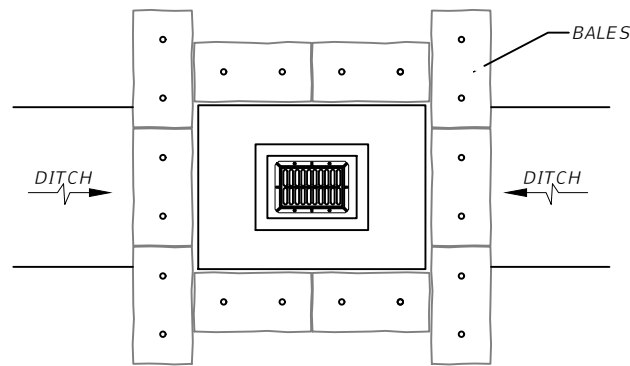
| REVISIONS |             |      |             | Alvarez Engineers, Inc.                                                                                                                         | KENDALL BREEZE CDD<br>DRAINAGE IMPROVEMENTS | STORMWATER POLLUTION<br><br>PREVENT PLANS | SHEET<br>NO.<br><br>4 |
|-----------|-------------|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------|-----------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                 |                                             |                                           |                       |
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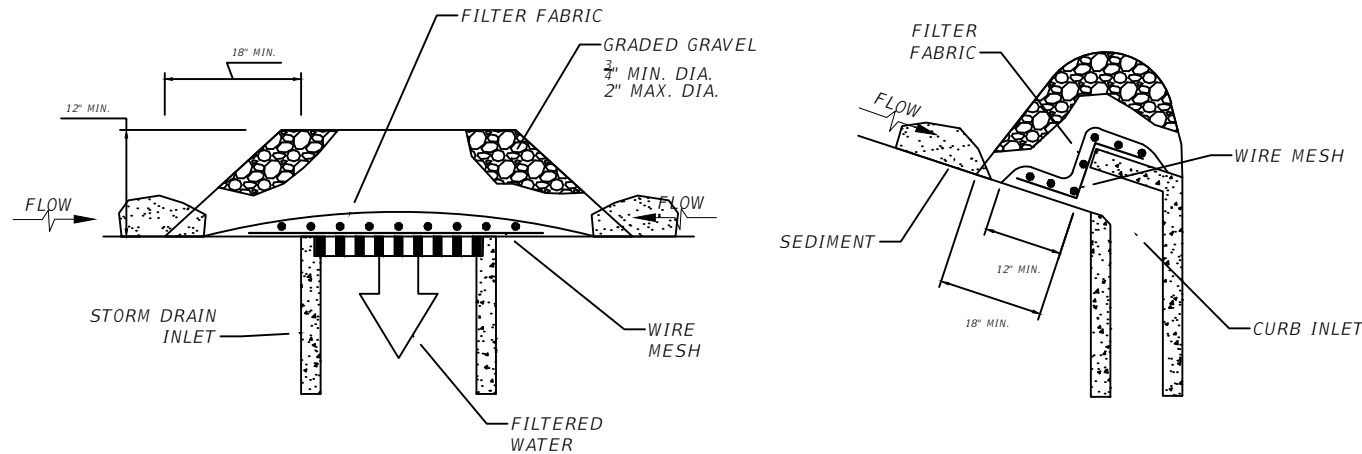
TYPE III SILT FENCE (TYP.)



TYPE IV SILT FENCE (TYP.)



DITCH BOTTOM INLET



DROP INLET PROTECTION-GRAVEL

CURB INLET PROTECTION-GRAVEL

GRAVEL APPLICATIONS (TYP.)  
OR APPROVED ALTERNATIVE

NOTES FOR SILT FENCES:

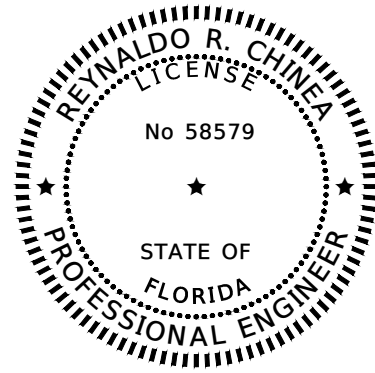
- TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS. WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART 1, SHEET 1 OF 2010 FDOT DESIGN STANDARDS INDEX 102.
- TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 1:2 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25 FEET. AVOID USE WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.
- DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
- WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.

NOTES FOR INLET PROTECTION GRAVEL:

- INSTALLATION/APPLICATION CRITERIA:
  - PLACE WIRE MESH (WITH 1/2 INCH OPENINGS) OVER THE INLET GRATE EXTENDING ONE FOOT PAST THE GRATE IN ALL DIRECTIONS.
  - PLACE FILTER FABRIC OVER THE MESH. FILTER FABRIC SHOULD BE SELECTED BASED ON SOIL TYPE.
  - PLACE GRADED GRAVEL, TO A MINIMUM DEPTH OF 12 INCHES, OVER THE FILTER FABRIC AND EXTENDING 18 INCHES PAST THE GRATE IN ALL DIRECTIONS.
- MAINTENANCE:
  - INSPECT INLET PROTECTION AFTER EVERY LARGE STORM EVENT AND AT A MINIMUM OF ONCE MONTHLY.
  - REMOVE SEDIMENT ACCUMULATED WHEN IT REACHES 4 INCHES IN DEPTH.
  - REPLACE FILTER FABRIC AND CLEAN OR REPLACE GRAVEL IF CLOGGING IS APPARENT.
- LIMITATIONS:
  - RECOMMENDED FOR MAXIMUM DRAINAGE AREA OF ONE ACRE.
  - EXCESS FLOWS MAY BYPASS THE INLET REQUIRING DOWN GRADIENT CONTROLS.
  - PONDING WILL OCCUR AT INLET.

NOTES FOR SOIL TRACKING PREVENTION DEVICE:

- USE SANDBAGS, STRAW BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED.
- WASH WATER MUST BE CARRIED AWAY FROM ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT, CONTRACTOR TO REFER AND FOLLOW THE FDOT & FDEP EROSION AND SEDIMENT CONTROL MANUAL UPDATED JULY 2013. SECTION V: TEMPORARY CONSTRUCTION SITE BMPs. SOIL TRACKING PREVENTION DEVICE.



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| REVISIONS |             |      |             | Alvarez Engineers, Inc.                                                                                                                         | KENDALL BREEZE CDD<br>DRAINAGE IMPROVEMENTS | STORMWATER POLLUTION<br><br>PREVENT PLANS | SHEET<br>NO.<br><br>5 |
|-----------|-------------|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------|-----------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                 |                                             |                                           |                       |
|           |             |      |             | FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538<br>8935 N.W. 35 Lane, Suite 101<br>Miami, Florida 33172<br>Tel. (305) 640-1345 Fax (305) 640-1346 |                                             |                                           |                       |

GENERAL:

1. ELEVATIONS SHOWN ON THE PLANS ARE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT LATEST EDITION, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.

UTILITIES

1. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY PRE-TRENCHING, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE ENGINEER AND THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

PRE-CONSTRUCTION RESPONSIBILITIES

1. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED.
2. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND, THE ENGINEER OF RECORD.
3. THE CONTRACTOR SHALL CONTACT "SUNSHINE ONE-CALL OF FLORIDA" BY CALLING 811 AT LEAST 48 HOURS PRIOR TO COMMENCING ANY EXCAVATION OR CONSTRUCTION IN ORDER TO PROVIDE FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. THE CONTRACTORS SHALL COORDINATE WITH UTILITY'S OWNERS IF APPLICABLE TO ARRANGE FOR RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK, IF APPLICABLE. THE ENGINEER SHALL CONTACT THE UTILITY COMPANY 48 HOURS BEFORE BEGINNING CONSTRUCTION.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT.
6. THE CONTRACTOR SHALL SECURE ALL UTILITY EASEMENTS (IF REQUIRED) TO BE SECURED PRIOR TO CONSTRUCTION.
7. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AS SHOWN ON THE DRAWINGS WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE AT THE TIME PLANS WERE PREPARED BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC., WITHIN THE PROJECT AREA WHICH WERE INSTALLED AND CONSTRUCTED AFTER THE PREPARATION OF THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE FACILITIES SHOWN OR FOR ANY FACILITIES NOT SHOWN. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING FACILITIES, STRUCTURES AND OTHER FEATURES (WHETHER SHOWN ON THE PLANS OR NOT) AFFECTING THE WORK.
8. IF, UPON EXCAVATION, EXISTING CONDITIONS ARE FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE THE PROBLEM.
9. CONTRACTOR SHALL SHOW HARD COPIES OF ALL PROPOSED STANDARD DETAILS AND SPECIFICATIONS AT THE PRE-CONSTRUCTION MEETING TO BE SIGNED BY THE ENGINEER & KEEP THEM IN THE PROJECT LOCATION.

INSPECTION AND TESTING:

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD,MIAMI DADE PUBLIC WORKS, AND POLICE DEPARTMENT 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
2. THE CONTRACTOR SHALL GIVE THE ENGINEER OF RECORD AT LEAST 48 HOURS ADVANCE NOTICE, AND THE ENGINEER OF RECORD MUST BE PRESENT TO WITNESS FINAL INSPECTION OF PAVING, GRADING AND DRAINAGE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL APPLICABLE REGULATORY AGENCIES FOR INSPECTION REQUIREMENTS AND CERTIFICATION OF THE WORK.
3. CONTRACTOR TO RELOCATE, ADJUST ALL WATER AND SEWER, ELECTRIC AND CABLE UTILITIES AND DEVICES LOCATED WITHIN THE WORK ZONE. ALSO, ALL THE LANDSCAPE IMPACTED WITHIN THE WORK ZONE.

TEMPORARY FACILITIES:

1. TEMPORARY FACILITIES:
- A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY, DURING CONSTRUCTION.
- B. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS ENTRANCE TO COMMERCIAL PROPERTIES AT ALL TIMES, IF APPLICABLE.
- C. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION, IF APPLICABLE.
2. TRAFFIC REGULATION:
- A. THE CONTRACTOR SHALL PROVIDE ALL WARNING SIGNS, LIGHTS AND FLAG PERSONS AS NECESSARY FOR THE MAINTENANCE OF PEDESTRIAN AND VEHICULAR TRAFFIC IN ACCORDANCE WITH THE MUTCD 2009, AND MIAMI-DADE COUNTY PUBLIC WORKS AND AMERICANS WITH DISABILITIES ACT (ADA) GUIDELINES.
- B. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
- C. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT.

STORM DRAINAGE:

GENERAL:

1. DRAINAGE PIPE TO BE ASTM F949 PVC OR APROVED EQUAL BY THE ENGINEER.
2. PROVIDE A MINIMUM PROTECTIVE COVER OF 24" INCHES OVER STORM SEWER AND AVOID UNNECESSARY CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL PROTECT COMPLETED DRAINAGE STRUCTURES AND EXFILTRATION SYSTEM FROM CONTAMINATION OF SILT AND CONSTRUCTION DEBRIS. PLACE PLYWOOD ON OR FILTER FABRIC BETWEEN THE FRAME AND INLET GRATE UNTIL CONSTRUCTION OPERATIONS ARE FINISHED.

PAVING:

1. GENERAL:
- A. ALL EXISTING PAVEMENT CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
- WHERE ANY PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.

2. MATERIALS AND INSTALLATION:

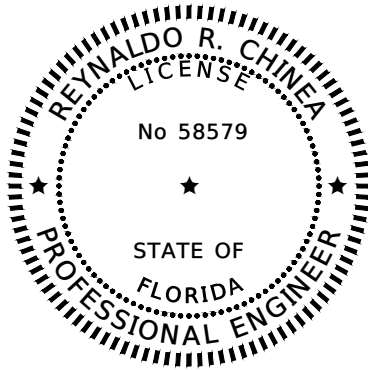
- A. SUBGRADE FOR ROAD RE-RECONSTRUCTION SHALL BE 12 INCHES COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY (AASHTO T-180), LBR 40.
- B. BASE COURSE MATERIAL FOR PAVED AREAS SHALL BE OF 8 INCHES PLACED ON A SINGLE LAYER FOR STREETS. BASE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180, LBR 100.
- ASPHALT PAVEMENT SHALL BE FDOT SP 9.5 AND MATCH EXISTING PAVEMENT THICKNESS (1 1/2 IN).
3. TESTING:
- DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY, CERTIFIED BY THE STATE OF FLORIDA, WHERE DIRECTED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT AND INSPECTOR ONE TEST HOLE TO THE BASE AND TWO TESTS TO THE SUBGRADE, VERTICALLY SPACED 6 INCHES BETWEEN THEM. ON EACH PIPE REPAIR LOCATION.

PROJECT CLOSE-OUT:

1. CLEANING UP:
- A. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEPED BROOM CLEAN.
- B. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ALL DISTURBED AREAS DAMAGED BY HIS WORK, EQUIPMENT AND/OR EMPLOYEES TO A CONDITION EQUAL OR BETTER TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.
- C. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS REMOVED DURING CONSTRUCTION WITH THE SAME TYPE OF MATERIAL AND TO THE CONDITION WHICH EXISTED PRIOR TO THE BEGINNING OF OPERATIONS.
- D. PARTIAL RESTORATION FOR CURBS AND SIDEWALK IS NOT ACCEPTED. FULL FLAG RESTORATION IS REQUIRED FOR SIDEWALKS. SIDEWALK TO BE RESTORED IN COMPLIANCE WITH ADA AND PUBLIC WORKS MANUAL. CURBS SHALL BE RESTORED JOINT TO JOINT.
- E. WHERE MATERIAL OR DEBRIS; HAVE WASHED OR FLOWED INTO, OR HAVE BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
- F. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
2. PROJECT RECORD DOCUMENTS:
- A. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.
- B. UPON COMPLETION OF DRAINAGE IMPROVEMENTS AND LIMEROCK BASE RE-CONSTRUCTION (AND BEFORE PLACING ASPHALT PAVEMENT) THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS-BUILT" PLANS FOR THESE IMPROVEMENTS, SHOWING THE LOCATIONS AND PERTINENT GRADES OF ALL DRAINAGE INSTALLATIONS AND THE FINISHED ROCK GRADES OF THE ROAD CROWN AND EDGES OF PAVEMENT AND SWALES BOTTOM GRADES AT 10 FEET INTERVALS MAXIMUM SEPARATION.
- C. UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS.
- D. ALL "AS-BUILT" INFORMATION SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.
- E. CONTRACTOR SHALL SUBMIT PICTURES & VIDEOS OF ALL WORK PERFORMED AFTER COMPLETION OF EACH LOCATION.

SCOPE OF WORK

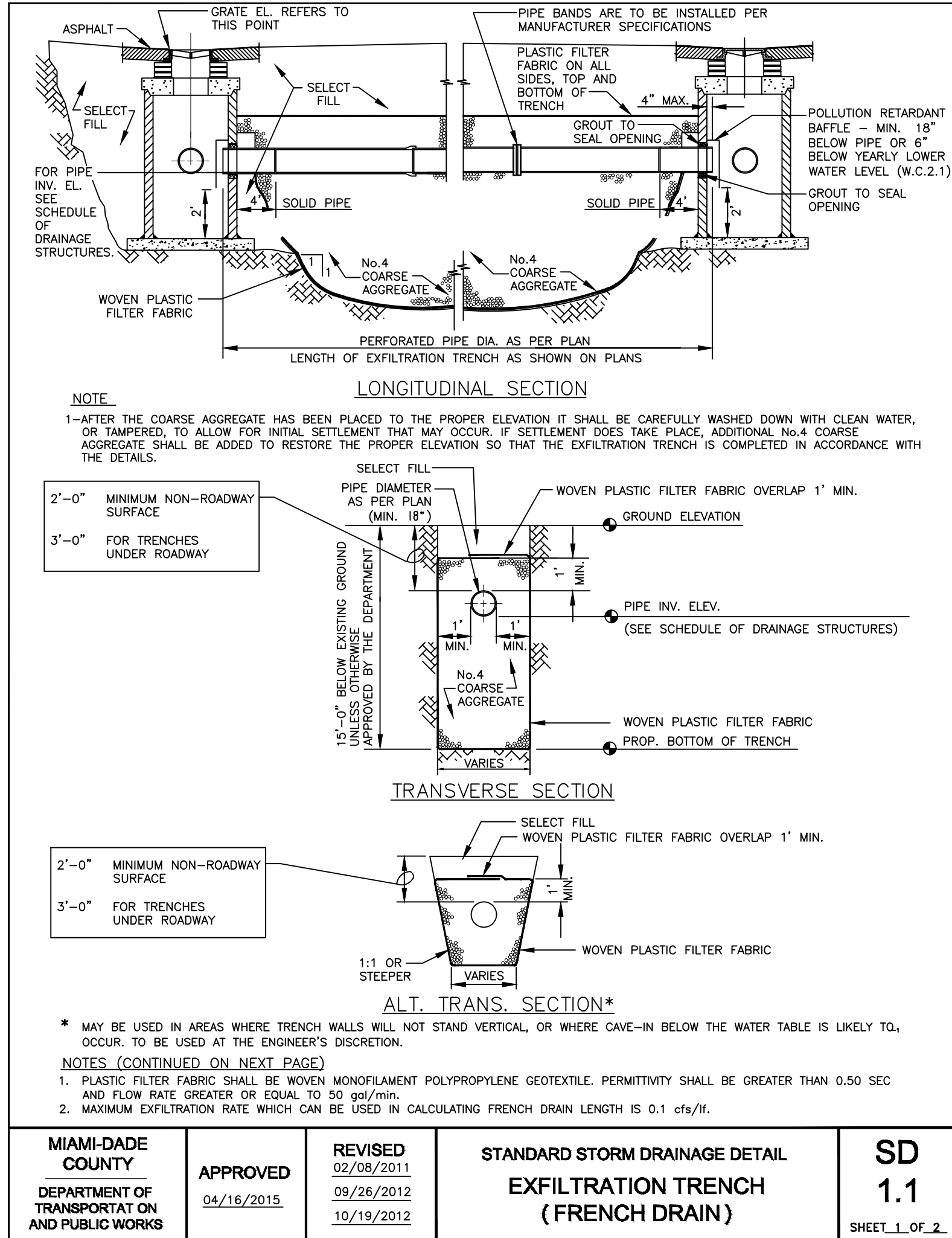
1. TWO (2) DRAINAGE SOLID PIPE REPAIRS. REQUIRE EXCAVATION IN EACH LOCATION.
2. THREE (3) FRENCH DRAIN PIPE REPAIRS. REQUIRE EXCAVATION IN EACH LOCATION.
3. INSTALLATION OF (2) 15" SOLID DRAINAGE SOLID PIPE SEGMENTS. REQUIRE EXCAVATION IN EACH LOCATION.
4. INSTALLATION OF TWO (2) 15" FRENCH DRAIN PIPE OF 100 AND 75 LF. REQUIRE EXCAVATION IN EACH LOCATION.
5. INSTALLATION OF TWO (2) MANHOLES. REQUIRE EXCAVATION IN EACH LOCATION.
6. TRENCH PAVEMENT RESTORATION AND FULL LANE WIDTH MILLING AND RESURFACING AS SHOWN IN PLANS
7. UTILITY CONNECTION/ RELOCATION AS NEEDED IN ORDER TO COMPLETE SCOPE OF SERVICES



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| REVISIONS |             |      |             | Alvarez Engineers, Inc.                                                                                                                         | KENDALL BREEZE CDD<br>DRAINAGE IMPROVEMENTS | GENERAL NOTES | SHEET NO.<br><br>6 |
|-----------|-------------|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|--------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                 |                                             |               |                    |
|           |             |      |             | FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538<br>8935 N.W. 35 Lane, Suite 101<br>Miami, Florida 33172<br>Tel. (305) 640-1345 Fax (305) 640-1346 |                                             |               |                    |



NOTES CONTINUED

3. THE MINIMUM PIPE DIAMETER FOR DRAINAGE SYSTEM WITHIN THE ROADWAY RIGHT-OF-WAY SHALL BE 18 INCHES. 15 INCH PIPE MAY BE USED IN PRIVATE ROADWAYS.
4. NO TREES TO BE PLANTED WITHIN 5 FEET OF THE EDGE OF THE TRENCH.
5. TYPE "P" S.D. 2.6 STRUCTURE IS RECOMMENDED FOR SMALL DRAINAGE AREAS LESS THAN 0.2 ACRE PER CATCH BASIN.
6. TYPE "J" S.D. 2.6 STRUCTURE IS RECOMMENDED FOR AREAS LARGER THAN 0.2 ACRE.
7. ALL INVERTS OF PERFORATED PIPES TO BE AT MEAN HIGH OCTOBER WATER TABLE W.C. 2.2.
8. PIPES CAN BE ALLOWED BELOW MEAN HIGH OCTOBER WATER TABLE DUE TO UTILITY CONFLICTS OR IN ORDER TO PROVIDE THE REQUIRED MINIMUM COVER.
9. NEOPRENE GASKET REQUIRED FOR BAFFLES ON ALL CONTACT EDGES MOUNTED ON WALL.
10. OIL AND GREASE Baffle IS REQUIRED FOR ALL DRAINAGE STRUCTURES PRECEDING AN OUTFALL OR EXFILTRATION TRENCHES, IN PROJECTS LOCATED IN WELLFIELD PROTECTION AREAS, ROAD INTERSECTIONS WITH TRAFFIC LIGHTS, AND LARGE PARKING LOTS WHICH INCLUDE 15 PARKING SPACES OR MORE.
11. OIL AND GREASE Baffle MAY BE WAIVED IN SUBURBAN RESIDENTIAL AREAS.

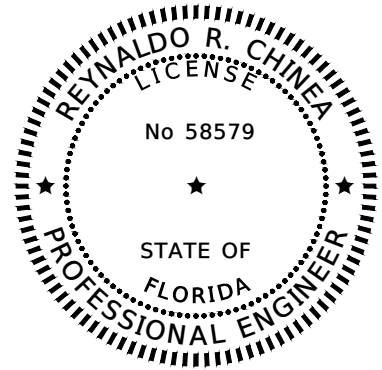
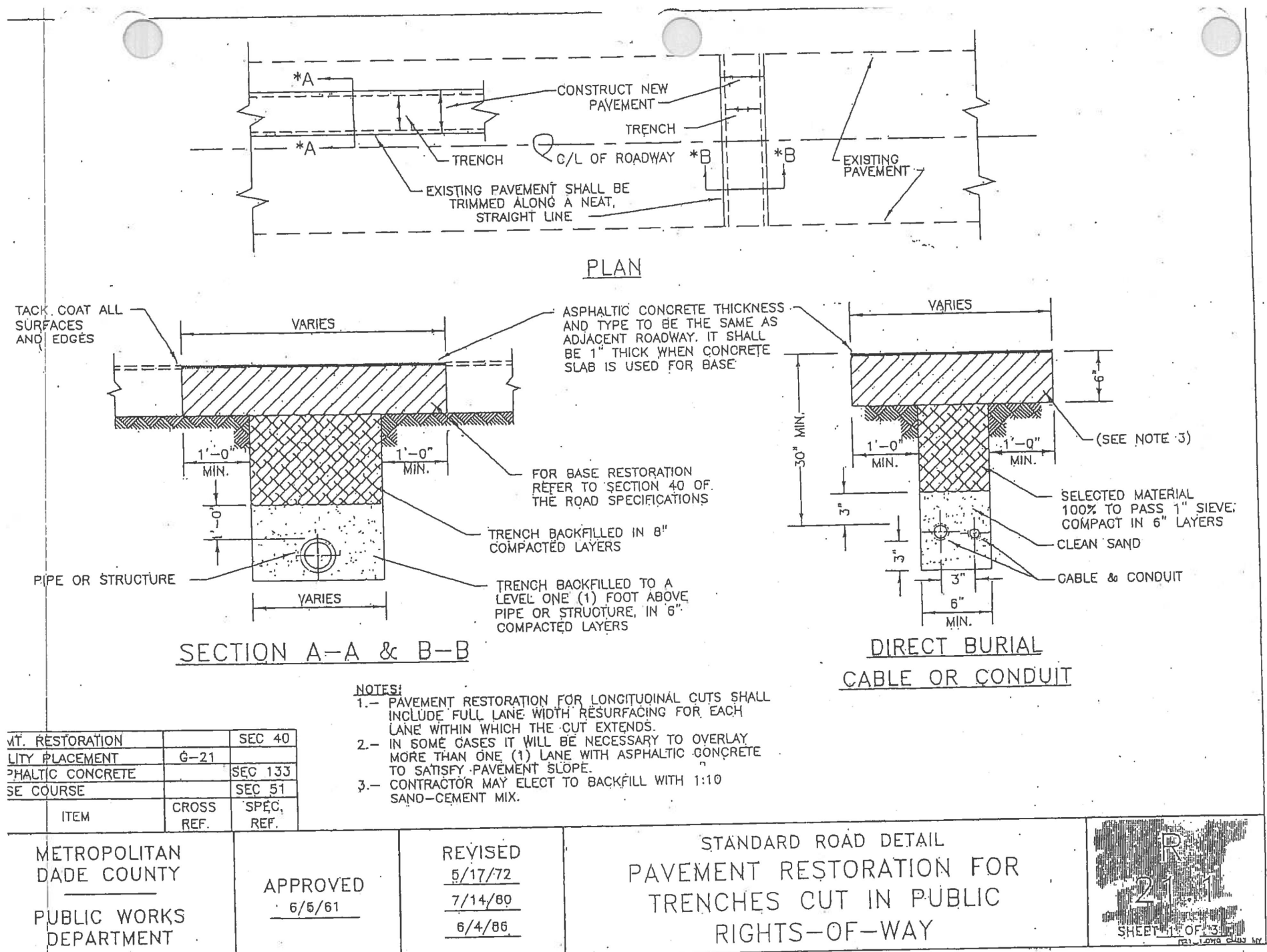
GENERAL NOTES FOR PIPE CULVERTS

CONTRACTOR HAS THE OPTION OF INSTALLING ANY PIPE MEETING THE REQUIREMENTS OF SECTION 443-2 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS LONG AS THE MANUFACTURER IS LISTED, AT THE TIME OF PIPE INSTALLATION, IN FDOT'S LIST OF PRODUCERS WITH ACCEPTED QUALITY CONTROL PROGRAMS. PIPES WITH LESS THAN A 100-YEAR CERTIFICATION CANNOT BE USED ON SECTION LINE, HALF SECTION LINE, COLLECTOR ROADWAYS, AND ARTERIALS. 50-YEAR PIPE CERTIFICATION REQUIRED FOR ALL OTHER MINOR/LOCAL ROADWAYS.

| MINIMUM NUMBER OF PERFORATION IN PIPE CULVERTS |                                               |                                               |
|------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| PIPE DIAMETER (inches)                         | OUTER SHELL                                   | LINER                                         |
|                                                | No. of 3/8" Dia. Holes (PER LIN. FT. OF PIPE) | No. of 3/8" Dia. Holes (PER LIN. FT. OF PIPE) |
| 15                                             | 100                                           | 50                                            |
| 18                                             | 120                                           | 60                                            |
| 24                                             | 160                                           | 80                                            |
| 30                                             | 200                                           | 100                                           |
| 36                                             | 240                                           | 120                                           |
| 42                                             | 275                                           | 140                                           |
| 48                                             | 315                                           | 150                                           |
| 54                                             | 355                                           | 180                                           |
| 60                                             | 395                                           | 200                                           |
| 72                                             | 470                                           | 235                                           |
| 84                                             | 550                                           | 275                                           |

NOTE:

PERFORATIONS SHALL BE UNIFORMLY SPACED AROUND THE FULL PERIPHERY OF THE PIPE TO WITHIN 4" OF EACH END OF EACH LENGTH OF PIPE. THE NUMBER OF PERFORATIONS PER LINEAR FOOT OF PIPE AND THE DIAMETER OF THE PERFORATIONS SHALL BE AS SHOWN ON THE ABOVE TABLE.



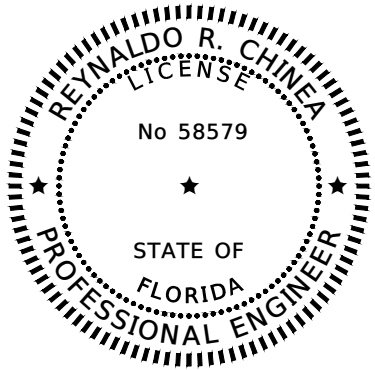
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|-----------|-------------|------|-------------|-------------------------|------------------------------------------|---------------|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                         |                                          |               |           |
|           |             |      |             |                         |                                          |               | 7         |

TABULATION OF QUANTITIES

| PAY<br>ITEM<br>NO. | DESCRIPTION                                                                       | UNIT | SHEET NUMBERS |       |      |       | TOTAL<br>THIS<br>SHEET |       | GRAND<br>TOTAL |       |
|--------------------|-----------------------------------------------------------------------------------|------|---------------|-------|------|-------|------------------------|-------|----------------|-------|
|                    |                                                                                   |      | 02            |       |      |       | PLAN                   | FINAL | PLAN           | FINAL |
|                    |                                                                                   |      | PLAN          | FINAL | PLAN | FINAL |                        |       |                |       |
| 102-1              | MAINTENANCE OF TRAFFIC                                                            | LS   |               |       |      |       | 1                      |       | 1              |       |
| 327-70-19          | MILLING EXISTING ASPHALT PAVEMENT, 3/4" AVG DEPTH                                 | SY   | 560           |       |      |       | 560                    |       | 560            |       |
| 334-11-2           | SUPERPAVE ASPHALTIC CONCRETE,TRAFFIC B, SP-9.5                                    | TN   | 31            |       |      |       | 31                     |       | 31             |       |
| 44-37-0 X          | FRENCH DRAIN, 15"                                                                 | LF   | 175           |       |      |       | 175                    |       | 175            |       |
| 425-2-41           | MANHOLES,P-7, <10'                                                                | EA   | 2             |       |      |       | 2                      |       | 2              |       |
| 425-11-X           | MODIFY EXISTING STRUCTURE                                                         | EA   | 1             |       |      |       | 1                      |       | 1              |       |
| 520-11-0           | DROP CURB                                                                         | LF   | 246           |       |      |       | 246                    |       | 246            |       |
| 522-2              | CONCRETE DRIVEWAY 6"                                                              | SY   | 34            |       |      |       | 34                     |       | 34             |       |
| 570-11             | SOD PERFORMANCE TURF                                                              | SY   | 25            |       |      |       | 25                     |       | 25             |       |
| 711-11-125         | PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24" | LF   | 14            |       |      |       | 14                     |       | 14             |       |
| 710-90             | PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"                            | GM   | 0.0496        |       |      |       | 0.0496                 |       | 0.0496         |       |
| 711-11-125         | THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE                          | LF   | 14            |       |      |       | 14                     |       | 14             |       |
| 711-16-201         | THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"                                        | GM   | 0.0496        |       |      |       | 0.0496                 |       | 0.0496         |       |
|                    |                                                                                   |      |               |       |      |       |                        |       |                |       |
|                    |                                                                                   |      |               |       |      |       |                        |       |                |       |
|                    |                                                                                   |      |               |       |      |       |                        |       |                |       |
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|                    |                                                                                   |      |               |       |      |       |                        |       |                |       |



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|           |             |      |             |                         |                                             |                          | 8            |

FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538  
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