





Kimley-Horn and Associates, Inc. No. 70443 Professional Engineer License No. 70443 State of Florida

**BEST MANAGEMENT PRACTICES (BMPs):**

THIS PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH APPROPRIATE CONDITIONS OF THE MIAMI-DADE COUNTY LAND DEVELOPMENT REGULATIONS, THE RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), CHAPTER 17-25, F.A.C., THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), CHAPTER 40D-4, F.A.C. AND THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) DOCUMENT NO. EPA 832/R-92-005 (SEPTEMBER 1992). THE PLAN ADDRESSES THE FOLLOWING:

- 1. PREVENT LOSS OF SOIL DURING CONSTRUCTION BY STORMWATER RUNOFF AND/OR WIND EROSION, INCLUDING PROTECTING TOPSOIL BY STOCKPILING FOR REUSE.
2. SEDIMENTATION PROTECTION OF STORM SEWER OR RECEIVING STREAM.
3. PREVENT POLLUTING THE AIR WITH DUST AND PARTICULATE MATTER...

**PROJECT DESCRIPTION:**

- 1. PROJECT LOCATION: PERRINE ELEMENTARY SCHOOL, 8851 SW 168TH STREET, PALMETTO BAY, FLORIDA 33157
2. PROJECT LIMITS: THE TOTAL DISTURBED AREA IS APPROXIMATELY 0.14 ACRES.
3. SITE MAP: THE CONSTRUCTION PLANS SHALL BE USED AS THE SITE MAP.
4. LOCATION OF TEMPORARY CONTROLS: SHOWN ON CONSTRUCTION PLANS.

**SEQUENCE OF CONSTRUCTION:**

- 1. PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING, INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE ENGINEERING PLAN, STANDARD DETAILS, AND NPDES REQUIREMENTS.
2. BEGIN CLEARING AND GRUBBING.
3. PREPARE SUBBASE MATERIAL.
4. CONSTRUCT SIDEWALK, CURBING, AND CONCRETE FLUMES.

**GENERAL EROSION CONTROL NOTES:**

- 1. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THESE EROSION CONTROL NOTES, ENGINEERING DRAWINGS, THE STANDARD DETAILS, THE NPDES PERMIT (TO BE OBTAINED BY CONTRACTOR) AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THIS DRAWING AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERIC PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP) IN ALL CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
A. FUEL SPILLS AND LEAKS PREVENTION
B. PREVENT/REDUCE VEHICLE AND EQUIPMENT WASHING AND STEAM CLEANING
C. VEHICLE AND EQUIPMENT MAINTENANCE AND REPAIR
D. PROPER OUTDOOR LOADING/UNLOADING OF MATERIALS
E. PREVENT/REDUCE OUTDOOR STORAGE OF RAW MATERIALS, PRODUCTS, AND BY-PRODUCTS
F. SOLID WASTE MANAGEMENT
G. HAZARDOUS WASTE MANAGEMENT
H. CONCRETE WASTE MANAGEMENT
I. SANDBLASTING WASTE MANAGEMENT
J. STRUCTURE CONSTRUCTION AND PAINTING
K. SPILL PREVENTION AND CONTROL
L. CONTAMINATED SOIL MANAGEMENT
M. SANITARY/SEPTIC WASTE MANAGEMENT
N. SOIL EROSION CONTROL
O. STORM WATER TURBIDITY MANAGEMENT
4. BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE...

- 9. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES...
10. SURFACE WATER QUALITY SHALL BE MAINTAINED BY EMPLOYING THE FOLLOWING BMP'S IN THE CONSTRUCTION PLANNING AND CONSTRUCTION OF ALL IMPROVEMENTS.

**STORM WATER EROSION CONTROL PRACTICES:**

- 1. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM DETENTION PONDS AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
2. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
3. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (COMPOST SOCK DEVICES, ETC.) TO PREVENT EROSION.
4. WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES.
5. EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY...

**WIND EROSION CONTROL PRACTICES:**

- 1. WIND EROSION SHALL BE CONTROLLED BY EMPLOYING THE FOLLOWING METHODS AS NECESSARY AND APPROPRIATE:
A. BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST.
B. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED (SEE PERMANENT STABILIZATION PRACTICES FOR DETAILS).
C. AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHOULD BE EMPLOYED.
2. ALL DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

**STABILIZATION PRACTICES:**

IN THE SEDIMENT AND EROSION CONTROL PLAN, 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.

- TEMPORARY:
• ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.
• TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.
PERMANENT:
• ASPHALT OR CONCRETE SURFACE.
• SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

**STRUCTURAL PRACTICES:**

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT OR OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROL 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.

- TEMPORARY:
• SEDIMENT BARRIERS IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.
• INLET PROTECTION IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIAL DETAILS SHOWN IN THE TTC PLAN.
• SEDIMENT CONTAINMENT SYSTEM: THE PERMANENT STORMWATER PONDS WILL BE TEMPORARILY MODIFIED ACCORDING TO THE DETAILS IN THE TTC PLAN.
PERMANENT:
• STORMWATER PONDS
• SOD

**WASTE DISPOSAL:**

- 1. WASTE MATERIALS - ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER WITH A SECURE LID IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER.
2. HAZARDOUS WASTE - HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS OR AS DIRECTED BY THE MANUFACTURER.
3. SANITARY WASTE - SANITARY WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS.
4. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS...

**OFFSITE TRACKING:**

- 1. STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO REDUCE SEDIMENT TRACKING OFFSITE. THE MAJOR ROAD CONNECTED TO THE PROJECT SHALL BE CLEANED ONCE A DAY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK RESULTING FROM CONSTRUCTION TRAFFIC.
2. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE

EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATION PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES. HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DIKES, HAY BALES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF OIL, GREASE OR LUBRICANTS. CONTRACTORS SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS AS SOON AS POSSIBLE AFTER OCCURRENCE.

- 3. ALL WASH WATER FROM CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC. SHALL BE DETAINED ON SITE AND SHALL BE PROPERLY TREATED OR DISPOSED.
4. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD.
5. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

**MAINTENANCE:**

ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- 1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
3. THE COMPOST SOCK FILTRATION DEVICE SHALL BE INSPECTED PERIODICALLY FOR HEIGHT OF SEDIMENT AND CONDITION OF DEVICE.
4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE).
6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES.
7. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN SEVEN CALENDAR DAYS FOLLOWING THE INSPECTION.
8. A MAINTENANCE REPORT SHALL BE COMPLETED DAILY AFTER EACH INSPECTION OF THE SEDIMENT AND EROSION CONTROL METHODS.
9. THE SUPERINTENDENT SHALL ORGANIZE THE TRAINING FOR INSPECTION PROCEDURES AND PROPER EROSION CONTROL METHODS FOR EMPLOYEES THAT COMPLETE INSPECTIONS AND REPORTS.
10. ALL REPAIRS MUST BE MADE WITHIN 24 HOURS OF REPORT.
11. THE SUPERINTENDENT SHALL ORGANIZE THE TRAINING FOR INSPECTION PROCEDURES AND PROPER EROSION CONTROL METHODS FOR EMPLOYEES THAT COMPLETE INSPECTIONS AND REPORTS.
12. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.

**SPILL PREVENTION AND CONTROL:**

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

- 1. GOOD HOUSEKEEPING
A. SUPERINTENDENT SHALL INSPECT PROJECT AREA DAILY FOR PROPER STORAGE, USE, AND DISPOSAL OF CONSTRUCTION MATERIALS.
B. STORE ONLY ENOUGH MATERIAL ON SITE FOR PROJECT COMPLETION.
C. ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER.
D. ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER CONTAINER AND IF POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER.
E. PRODUCTS SHALL NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER.
F. ALL PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
2. HAZARDOUS PRODUCTS
A. MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED.
B. PROPER DISPOSAL PRACTICES SHALL ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS.
3. PRODUCT SPECIFIC PRACTICES
A. PETROLEUM PRODUCTS MUST BE STORED IN PROPER CONTAINERS AND CLEARLY LABELED.
B. THE MINIMUM AMOUNT OF FERTILIZER SHALL BE USED AND MIXED INTO THE SOIL IN ORDER TO LIMIT EXPOSURE TO STORM WATER.
C. PAINT CONTAINERS SHALL BE SEALED AND STORED WHEN NOT IN USE.
D. CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

**SPILL CLEAN UP:**

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED ABOVE, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- 1. SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES AND RESOURCES.
2. THE FOLLOWING CLEAN-UP EQUIPMENT MUST BE KEPT ON-SITE NEAR THE MATERIAL STORAGE AREA: GLOVES, MOPS, RAGS, BROOMS, DUST PANS, SAND, SAWDUST, LIQUID ABSORBER, GOGGLES, AND TRASH CONTAINERS.
3. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ONSITE AND READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
4. ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE.
5. WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER PROTECTIVE COVERING TO PREVENT INJURY.
6. ANY SPILL MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL.
7. AFTER A SPILL OCCURS, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL UP SHALL BE RECORDED.
8. THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND IS RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS. THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATING THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANUP PROCEDURES.



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Table with project details: KHA PROJECT 044649022, DATE DEC. 2018, SCALE AS SHOWN, DESIGNED BY MM, DRAWN BY TS, CHECKED BY SV.

VILLAGE OF PALMETTO BAY SRTS IMPROVEMENTS PREPARED FOR VILLAGE OF PALMETTO BAY FLORIDA DATE: 12/3/2019

PERRINE ELEMENTARY STORMWATER POLLUTION PREVENTION PLAN

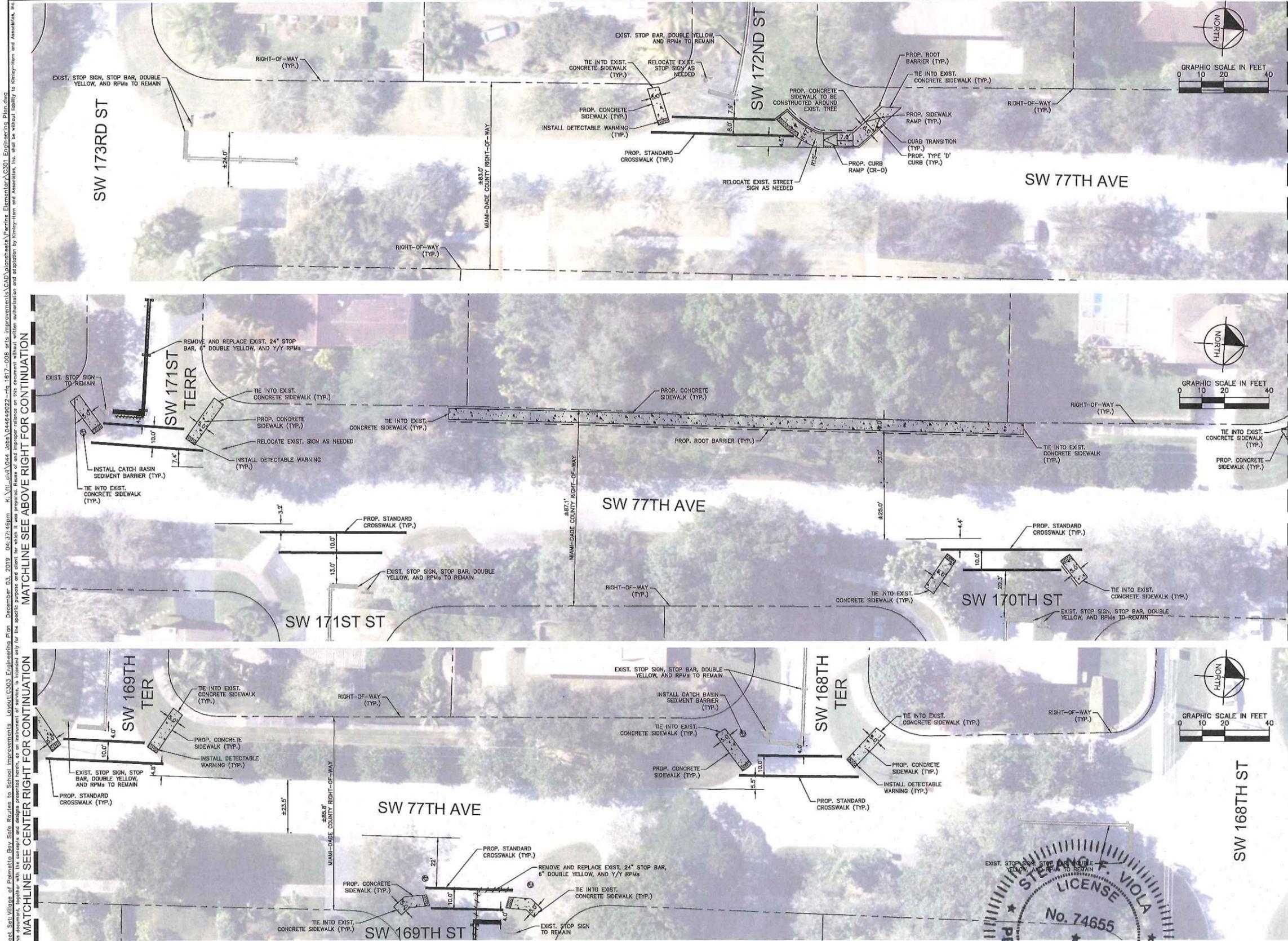
SHEET NUMBER C101

Table with columns: No., REVISIONS, DATE, BY.









- KEYMAP**  
N.T.S.
- LEGEND**
- REMOVE EXISTING STRIPING
  - PROPOSED CONCRETE SIDEWALK
  - PROPOSED CATCH BASIN SEDIMENT BARRIER
  - PROPOSED DETECTABLE WARNING
  - PROPOSED SIDEWALK RAMP
  - EXISTING PROPERTY LINE/RIGHT-OF-WAY

- CONSTRUCTION NOTES:**
1. CONTRACTOR TO PERFORM SITE VISIT PRIOR TO BID SUBMITTAL FOR THE PROJECT.
  2. RIGHT-OF-WAY BOUNDARIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATION OF RIGHT-OF-WAY WITH LICENSED SURVEYOR.
  3. CONTRACTOR TO OBTAIN ENGINEERING PERMIT.
  4. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS.
  5. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
  6. ALL EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO, DRAINAGE MAINS, IMPACTED BY SIDEWALK CONSTRUCTION SHALL BE MODIFIED/RELOCATED AS NECESSARY. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY DIRECTLY.
  7. ELEVATION OF EXISTING UTILITIES SHALL BE ADJUSTED AS NECESSARY.
  8. CONTRACTOR TO ROOT PRUNE TREES, REMOVE VEGETATION, AND INSTALL ROOT BARRIER ALONG PROPOSED PATH OF SIDEWALK AS NECESSARY WITHOUT JEOPARDIZING ANY ENDANGERED SPECIES. CONTRACTOR TO PROTECT EXISTING TREES DURING CONSTRUCTION PER FOOT INDEX 544. CONTRACTOR TO TRIM ANY LOW-HANGING TREE BRANCHES THAT CONFLICT WITH MINIMUM ADA CLEARANCE.
  9. ALL AREAS DAMAGED BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO PAVEMENT MARKINGS, ASPHALT, SWALE, SIDEWALK, AND DRIVEWAYS, SHALL BE RESTORED, AT THE CONTRACTOR'S EXPENSE, TO ORIGINAL CONDITION.
  10. SAW CUTTING OF THE EXISTING SIDEWALK SHALL BE MADE ONLY AT THE NEAREST FLAG JOINTS.
  11. NO EXISTING TREES SHALL BE REMOVED UNLESS OTHERWISE SPECIFIED.
  12. SHOULD ANY EXISTING TREE BE REQUIRED TO BE REMOVED OR RELOCATED BASED ON PROPOSED WORK, CONTRACTOR TO COORDINATE MODIFIED PATH OF SIDEWALK WITH ENGINEER. SHOULD TREE REMOVAL/RELOCATION BE REQUIRED, CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS.
  13. PROPOSED PATH OF SIDEWALK IS APPROXIMATE AND IS BASED ON AVAILABLE INFORMATION. CONTRACTOR TO CONSTRUCT SIDEWALK AROUND TREES AS REQUIRED.
  14. ALL EXISTING MAILBOXES IMPACTED BY SIDEWALK CONSTRUCTION SHALL BE MODIFIED/RELOCATED AS NECESSARY AT THE CONTRACTOR'S EXPENSE.
  15. ROADWAY DESIGN SPEED: 30 MPH
  16. DETECTABLE WARNING SURFACE (DWS) TO BE SELECTED FROM MDC ARTICLE 527 LIST.

- PAVING, GRADING, AND DRAINAGE NOTES:**
1. PROPOSED SIDEWALK LOCATION IS NOT EXACT DUE TO DISCREPANCIES WITH AERIAL BACKGROUND. PROPOSED SIDEWALK SHALL BE WITHIN THE PUBLIC RIGHT-OF-WAY.
  2. MINIMUM SEPARATION FROM EDGE OF ROADWAY TO EDGE OF SIDEWALK WITHOUT CURBING SHALL BE 5.0 FT.
  3. ALL SIDEWALKS TO BE 4" THICK, EXCEPT THOSE TRAVERSING DRIVEWAYS SHALL BE 6" THICK, AS PER SIDEWALK DETAIL, SHEET C400.
  4. PROPOSED SIDEWALK SLOPE SHALL NOT EXCEED MAXIMUM CROSS SLOPE OF 2% AND LONGITUDINAL SLOPE OF 5%.
  5. PROPOSED CONCRETE SIDEWALKS ADJACENT TO TYPE D CURB SHALL BE 5.0 FT WIDE UNLESS OTHERWISE NOTED ON THE PLANS.
  6. ALL SIDEWALK RAMPS AND DETECTABLE WARNINGS TO MEET FDOT STANDARD INDEX 522-002.
  7. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
  8. CONTRACTOR TO MAINTAIN DRAINAGE FLOW DURING AND AFTER CONSTRUCTION.
  9. FOR SIDEWALKS NOT ADJACENT TO CURB, AT LEAST A 1-FOOT WIDE GRADED AREA SHOULD BE PROVIDED ON BOTH SIDES, FLUSH WITH THE SIDEWALK AND HAVING A MAXIMUM 1:6 SLOPE.
  10. PROPOSED CLOSED FLUME INLET LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOW POINTS AND CONSULT WITH EOR PRIOR TO INSTALLATION.

- SIGNING AND MARKING NOTES:**
1. ALL PAVEMENT MARKINGS ARE TO MEET FDOT INDEX 711-001.
  2. ALL PROPOSED SIGNS TO BE INSTALLED PER FDOT INDEX 700-010.
  3. ALL SCHOOL SIGNS AND MARKINGS TO MEET FDOT INDEX 17344.
  4. EXISTING STRIPING/MARKING TO BE REMOVED BY WATER BLASTING ONLY.
  5. PROPOSED SOLAR POWERED BEACON ASSEMBLY TO MEET FDOT INDEX 654-001.
  6. ALL EXISTING SIGNS IMPACTED BY SIDEWALK CONSTRUCTION SHALL BE MODIFIED/RELOCATED AS NECESSARY AT THE CONTRACTOR'S EXPENSE.

Sheet Set Village of Palmetto Bay Safe Routes to School Improvements - Layout C303 Engineering Plan December 03, 2018 - 04:37:46pm - K:\11\_04\1044\_sbs\1044649022-rd-1817-008\_arts\_improvements\CAD\layouts\A303\_Engineering\_Plan.dwg  
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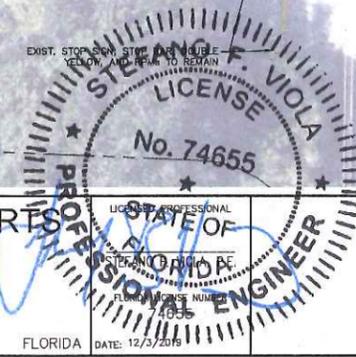
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KHA PROJECT	044649022
DATE	DEC. 2018
SCALE	AS SHOWN
DESIGNED BY	MM
DRAWN BY	TS
CHECKED BY	SV

VILLAGE OF PALMETTO BAY SR  
 IMPROVEMENTS  
 PREPARED FOR  
 VILLAGE OF PALMETTO BAY  
 FLORIDA



**PERRINE ELEMENTARY ENGINEERING PLAN**

SHEET NUMBER **C303**

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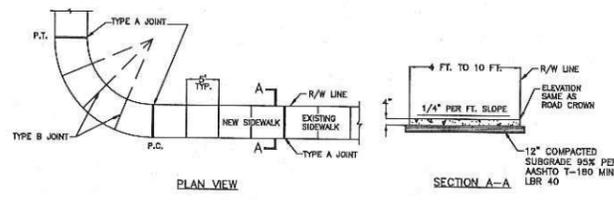
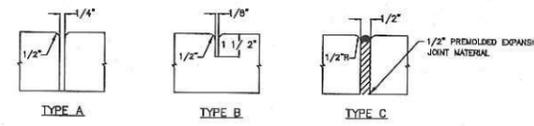


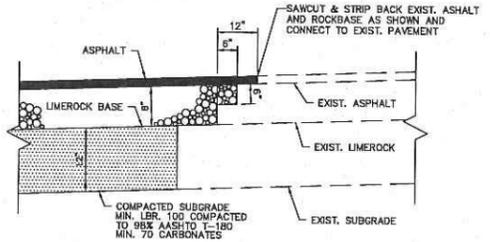
TABLE OF SIDEWALK THICKNESS - T	
LOCATION	T
STANDARD SIDEWALK	4"
AT DRIVEWAYS AND OTHER AREAS	6"

TABLE OF SIDEWALK JOINTS	
LOCATION	DETAIL
A. P.C. AND P.T. OF CURVES, JUNCTION OF EXISTING AND NEW SIDEWALK	TYPE A
B. 5'-0" CENTER TO CENTER ON SIDEWALK	TYPE B
C. WHERE SIDEWALK ADJUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES	TYPE C

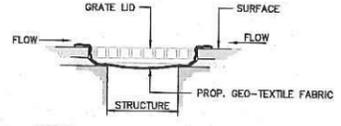


- NOTES:**
- PLACE #10/10 6x6 WIRE MESH IN THE PORTION OF THE SIDEWALK THAT CROSSES THE DRIVEWAY ONLY.
  - STANDARD SIDEWALK TO BE 3000 PSI @ 28 DAYS
  - CONCRETE FOR SIDEWALK AT DRIVEWAYS AND LOADING ZONES SHALL BE 4000 PSI @ 28 DAYS (HEAVY DUTY).
  - CURE ALL CONCRETE WITH CLEAN SAND, PLASTIC MEMBRANE, OR OTHER APPROVED METHOD.

**SIDEWALK DESIGN STANDARDS**  
N.T.S.

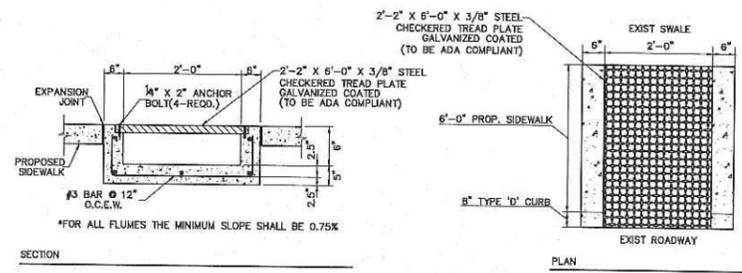


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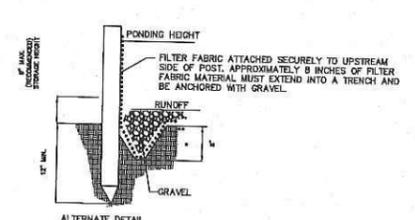
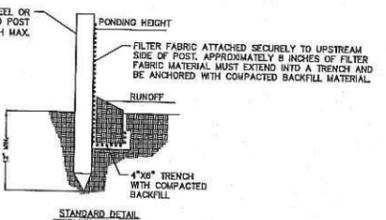
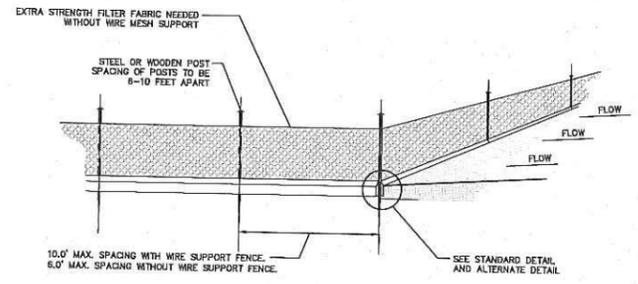


- NOTES:**
- CONTRACTOR SHALL PERFORM DAILY INSPECTIONS OF GEO-TEXTILE FABRIC BARRIER AND AS NECESSARY REPLACE OR REPAIR AS REQUIRED, SPECIFICALLY AFTER STORM EVENTS AND LARGE RAINFALL EVENTS.
  - SEDIMENTATION AND DEBRIS THAT ARE REMOVED FROM BARRIERS SHALL BE LEGALLY DISPOSED OF AT AN AUTHORIZED OFF-SITE DISPOSAL FACILITY.

**CATCH BASIN SEDIMENT BARRIER DETAIL**  
N.T.S.

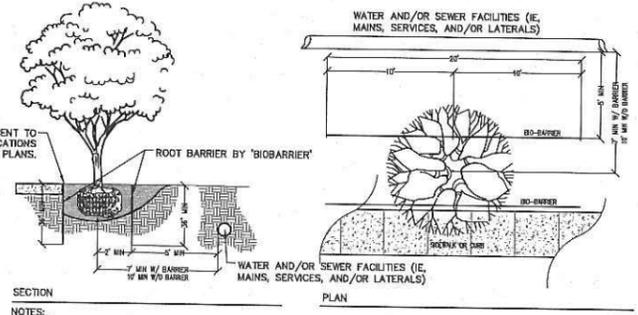


**CONCRETE FLUME WITH TREAD PLATE COVER**  
N.T.S.



- NOTES:**
- INSPECT AND REPAIR SILT FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
  - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
  - SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

**SILT FENCE SEDIMENT CONTROL**  
N.T.S.

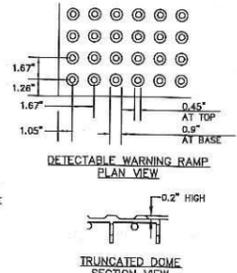


- NOTES:**
- TREES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION.
  - WHERE SHOWN ON PLANS, INSTALL ROOT BARRIER ADJACENT TO SIDEWALKS AND CURBS, PER MANUFACTURER'S SPECIFICATION.
  - INSTALL BIO-BARRIER PER MANUFACTURER'S SPECIFICATION ADJACENT TO SIDEWALKS AND AS SHOWN ON THIS DETAIL IN PROXIMITY TO UNDERGROUND UTILITIES.

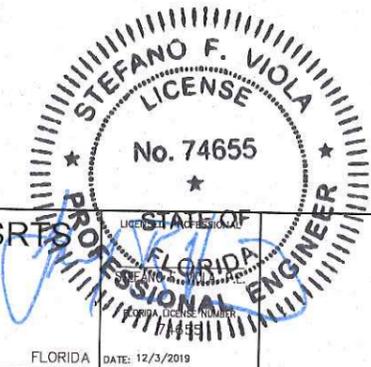
**ROOT BARRIER**  
N.T.S.

**CURB RAMP DETECTABLE WARNING**  
N.T.S.

- GENERAL NOTES FOR CURB RAMP DETECTABLE WARNING**
- DETECTABLE WARNING PER FOOT INDEX #304.
  - CURB RAMP MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOMES. THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACES, INCLUDING SIDE FLARES.
  - DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
  - ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
  - DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
  - DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 8" AND A MAXIMUM OF 10" FROM THE EXTENSION OF THE FACE OF CURB. DETECTABLE WARNING SURFACES MAY BE CURVED ALONG THE CORNER RADIUS.
  - DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED OF ARMOR-TILE TACTILE SYSTEMS CAST IN PLACE TILES OR APPROVED EQUAL.
  - DETECTABLE WARNING SURFACE TO BE SELECTED FROM MDC ARTICLE 527 LIST.



- NOTE:**
- TRUNCATED DOMES BY ARMOR TILE, ADA-C-2448 OR APPROVED EQUAL COLOR: YELLOW



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KHA PROJECT	044649022
DATE	DEC. 2018
SCALE	AS SHOWN
DESIGNED BY	MM
DRAWN BY	TS
CHECKED BY	SV

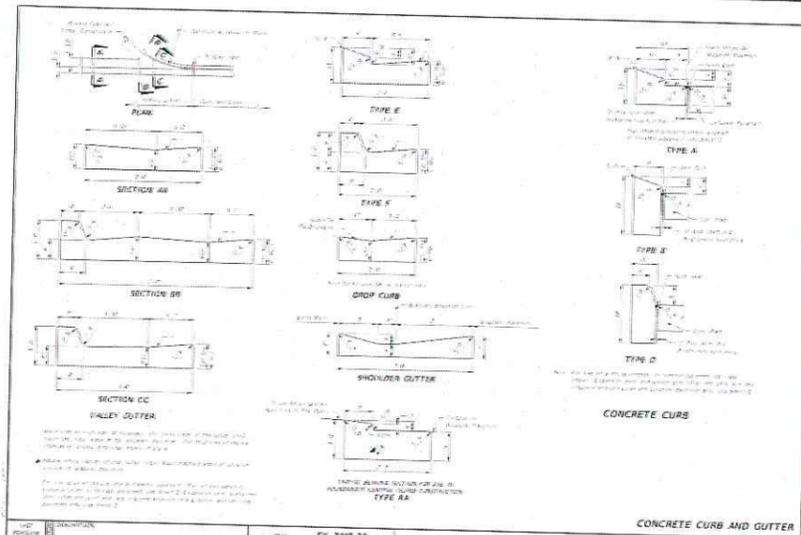
VILLAGE OF PALMETTO BAY SRPS  
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PREPARED FOR  
VILLAGE OF PALMETTO BAY  
FLORIDA DATE: 12/3/2019

PERRINE ELEMENTARY  
ENGINEERING DETAILS

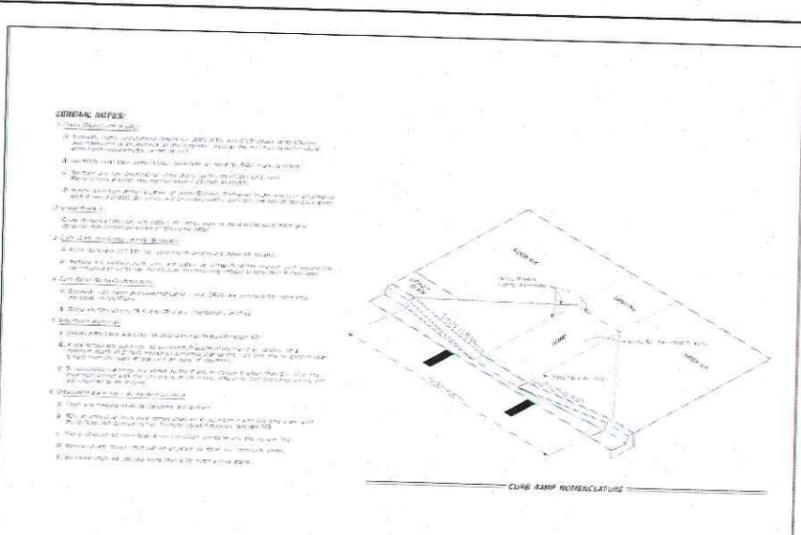
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C400

No.	REVISIONS	DATE	BY

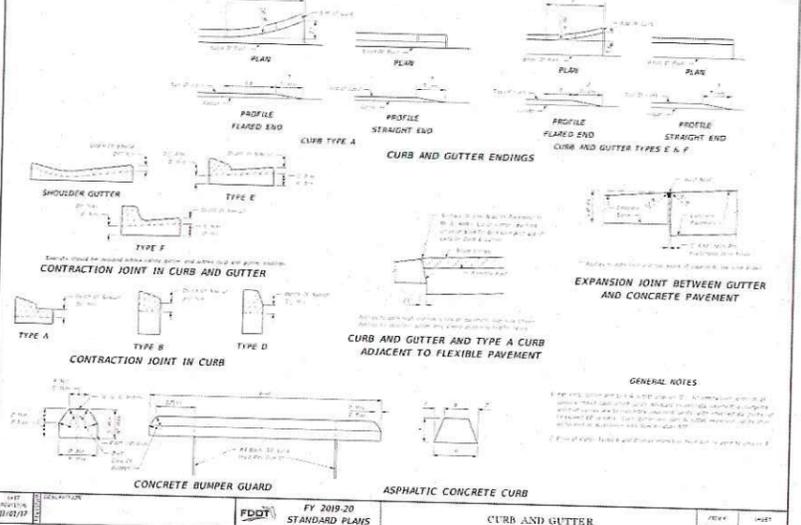
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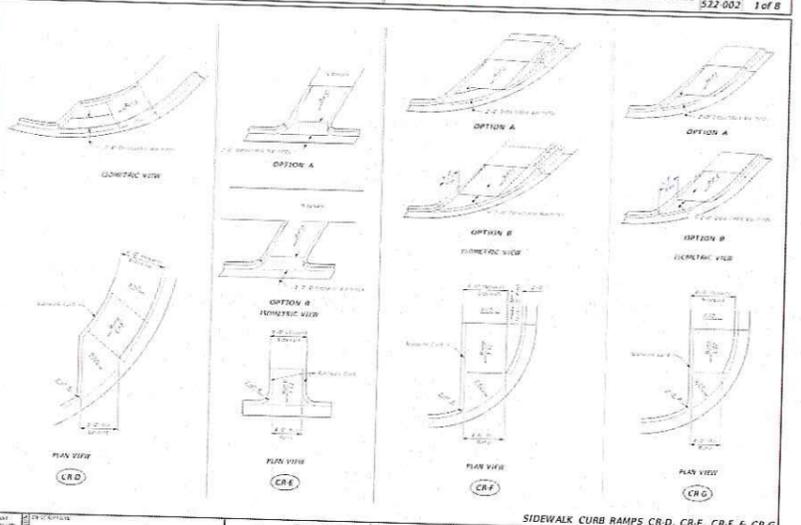
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 FY 2019-20  
 CURE AND GUTTER  
 520-001 1 of 2



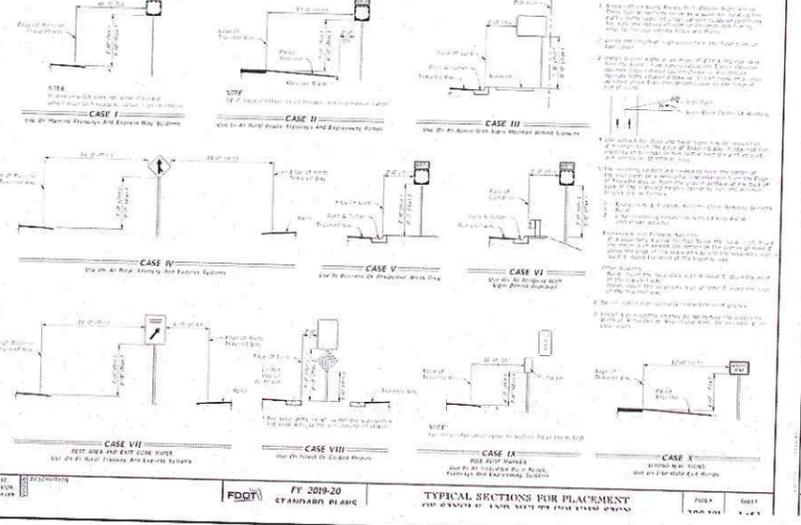
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 DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS  
 522-002 1 of 8



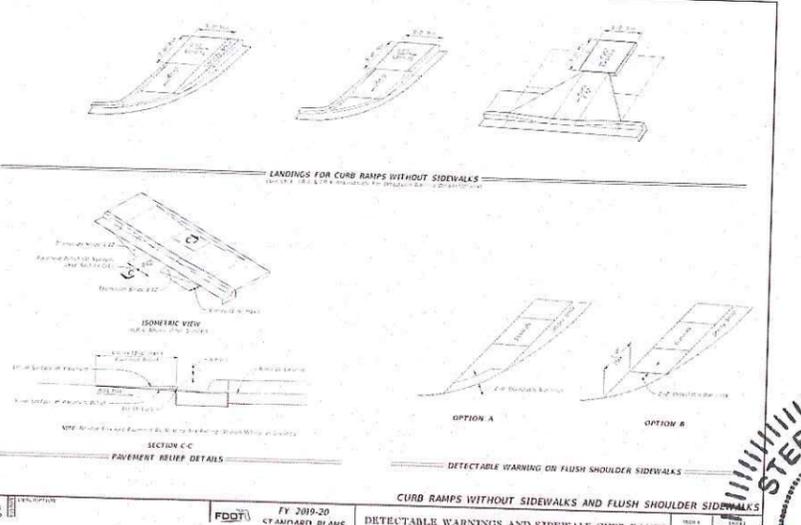
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 CURE AND GUTTER  
 520-001 2 of 2



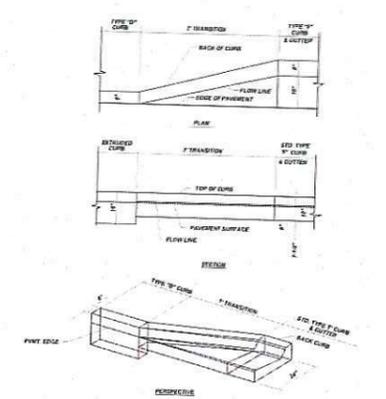
STANDARD PLANS  
 FY 2019-20  
 DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS  
 522-002 4 of 8



STANDARD PLANS  
 FY 2019-20  
 TYPICAL SECTIONS FOR PLACEMENT  
 520-001 1 of 1



STANDARD PLANS  
 FY 2019-20  
 DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS  
 522-002 4 of 8



STANDARD CURB & GUTTER (TYPE "F")  
 TO 6"x16" CONCRETE HEADER CURB TRANSITION

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KHA PROJECT  
 044649022  
 DATE  
 DEC. 2018  
 SCALE AS SHOWN  
 DESIGNED BY MM  
 DRAWN BY TS  
 CHECKED BY SV

VILLAGE OF PALMETTO BAY SR  
 IMPROVEMENTS  
 PREPARED FOR  
 VILLAGE OF PALMETTO BAY  
 VILLAGE OF PALMETTO BAY  
 FLORIDA

STEFANO F. VIOLA  
 LICENSE  
 No. 74655  
 LICENSED PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 12/3/2019

PERRINE ELEMENTARY  
 ENGINEERING DETAILS  
 SHEET NUMBER  
 C401