CONSTRUCTION NOTES:

1. SWALE SHALL EXTEND ENTIRE LENGTH OF PROPERTY FROM PROPERTY LINE TO PROPERTY LINE.
2. ALL MATERIALS, WORKMANSHIP, AND RESTORATION OF FEATURES IN THE RIGHT-OF-WAY SHALL BE TO THE SATISFACTION OF THE CITY ENGINEER. MATERIAL CERTIFICATIONS, SAMPLES, SHOP DRAWINGS, DENSITY TESTS MAY BE REQUIRED BY THE CITY INSPECTOR FOR VERIFICATION & APPROVAL.
3. ENGINEERING GROUNOH SWALE INSPECTION SHALL BE CALLED, INSPECTED AND PASSED PRIOR TO PLACEMENT OF CONCRETE OR ANY LANDSCAPING OR TREE INSTALLATION.
4. FINAL SWALE DEPTHS SHALL MEET THE FOLLOWING AFTER INSTALLATION OF ANY SOD OR PAVERS (INCLUDING HEADER CURBS IF APPLICABLE) DEPTHS ARE MEASURED FROM EXISTING EDGE OF PAVEMENT (E.O.P.):
   A. 40’ ROW SECTION – 6” MINIMUM DEPTH IN NON PAVED & LANDSCAPED OR sodded AREAS
   B. 50’ ROW SECTION – 8” MINIMUM DEPTH IN NON PAVED & LANDSCAPED OR sodded AREAS
   C. REFER TO STANDARD DRIVEWAY DETAIL SHEETS FOR SWALE DEPTH IN DRIVEWAY AREAS  
   EXISTING 40’ NEW 50’ R/W LINE R/W LINE
   VARIATES (25’ MIN.)
   VARIATES 10’ – 12’
   VARIATES 4’
   VARIATES 4’ MIN.
   ADDITIONAL ROW IF REQUIRED (REFER TO NOTE A)
   MIN 12% – MAX 2%
   EXIST. OR PROPOSED CONCRETE SIDEWALK

5. MINIMUM CLEAR ZONE SHALL BE PROVIDED FROM EDGE OF PAVEMENT.
   A. 4’ MINIMUM CLEAR ZONE FOR PLANTINGS OR SMALL GROUNDCOVER (SHALL NOT EXCEED 30” IN FULL GROWN HEIGHT)
   B. 6’ MINIMUM CLEAR ZONE FOR TREES (SIGHT TRIANGLE REQUIRED ON PLANS)
6. CENTER BOTTOM OF SWALE BETWEEN EDGE OF PAVEMENT AND NEW RIGHT OF WAY LINE IF NO SIDEWALK EXISTS (SPECIAL S/W WAIVER REQUIRED BY CITY ENGINEER).
7. SIDEWALKS SHALL BE CONCRETE, CONFORM TO CITY ENGINEERING STD DETAIL C1.3R, AND RUN CONTINUOUSLY THROUGH ALL DRIVEWAYS.
8. SITE PREPARATION AND EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. ADDITIONAL EROSION CONTROL MEASURES AFTER INITIAL GROUNOH INSPECTION MAY BE REQUIRED.

SPECIAL NOTE:

A. RIGHT OF WAY SECTION REQUIRED TO BE A MINIMUM OF 25’ FROM CENTER LINE OF ROADWAY. WHEN MINIMUM RIGHT OF WAY SECTION IS LESS THAN 25’ ABUTTING PROPERTY, AN ADDITIONAL 5’ RIGHT OF WAY EASEMENT IS REQUIRED. THIS EASEMENT SHALL BE RECORDED AT BROWARD COUNTY RECORDS, PRIOR TO CLOSE OUT OF PERMIT. INSTRUCTIONS AND CITY STANDARD EASEMENT DOCUMENTS CAN BE LOCATED AT: http://www.fortlauderdale.gov/home/showdocument?id=1558

R1-2/2016

cidade de fort lauderdale
departamento de desarrollo sustentable
departamento de ingeniería de vías y construcción

TYPICAL SWALE CROSS SECTION
CONSTRUCTION IN CITY ROW

DETAIL TITLE: D4.2R

ISSUED: 2/2016
GENERAL NOTES:
1. 2' WIDE FLARE OR OPTIONAL 4' RADIUS
2. UTILITY LOCATES SHALL BE CALLED AND DOCUMENTED PRIOR TO FIRST INSPECTION.
3. IF NEW DRIVEWAY LIMITS COVER EXISTING SEWER LATERAL:
   A. NEW CLEANOUT SHALL BE INSTALLED AT THE PROPERTY LINE WITH NEW TRAFFIC RATED BOX OR
   B. EXISTING SEWER LATERAL SHALL BE RELOCATED WITH NEW CLEANOUT INSTALLED AT PROPERTY LINE
4. SIDEWALKS SHALL BE CONCRETE, CONFORM TO CITY RIGHT OF WAY CONSTRUCTION & ENGINEERING STD DETAIL C2.1, AND RUN CONTINUOUSLY THROUGH DECORATIVE DRIVEWAYS.
5. CONCRETE PAVERS SHALL CONFORM TO ASTM C-936. CLAY PAVERS SHALL BE HARD-BURNED AND SHALL CONFORM TO ASTM C-902. THE MINIMUM PAVER THICKNESS SHALL BE 0.1". VARIATION FROM STANDARD THICKNESS REQUIRES SHOP DRAWING APPROVAL & ADDITIONAL 6" THICK CONCRETE BASE (MIN. 3000 P.S.I.) REQUIRED.
6. BEDDING SAND SHALL BE GRANULAR AND FINELY GRADED. LIMEROCK BASE SHALL BE Brought up to grade before bedding sand is installed. Bedding sand shall not be used to compensate for an uneven limerock base. Paver grades shall be sloped to ensure proper drainage to swale in conformance with STD DETAIL C1.3R & D4.2R.
7. PAVER JOINTS SHALL BE 1/8" WIDE, WITH A 1/16" TOLERANCE. ALL JOINTS SHALL BE SWEPT WITH DRY SAND UP TO THE PAVER SURFACE AND COMPACTED WITH A VIBRATORY PLATE COMPACTOR.
8. ALL MATERIALS, WORKMANSHIP, AND RESTORATION OF FEATURES IN THE EDGE OF 6"X6" CONC. HEADER, 2500 P.S.I., w/ 1-#4 BAR W/ 2" OVERLAP REQUIRED AT ALL JOINTS (SLOPE SHALL MATCH ADJACENT EXISTING PAVEMENT) W/ 6" THICK LIMEROCK CURB PAD
9. FOR DRIVEWAYS CONSTRUCTED WITHIN 6' OF PAVER PROPERTY LINE, CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAIL DW-P-1ALT AND DRIVEWAY SHALL SLOPE AWAY FROM PROPERTY LINE.

NOTE: FINAL DRIVEWAY ELEVATION AT SWALE MEASURED TO TOP OF PAVER (NOT HEADER CURB) FOR ALT. CURB DETAIL

SECTION A-A

EX. EOP ELEV.

6"X6" CONC. HEADER, 2500 P.S.I., w/ 1-#4 BAR W/ 2" OVERLAP REQUIRED AT ALL JOINTS (SLOPE SHALL MATCH ADJACENT EXISTING PAVEMENT) W/ 6" THICK LIMEROCK CURB PAD

SAWCUT & MATCH EXISTING ASPHALT

EXISTING UNDISTURBED LIMEROCK BASE

PAVER BLOCK

1" SAND BEDDING

6" THICK MIN. COMPACTED LIMEROCK BASE, COMPACTED TO 98% AASHTO T-180 (MIN. LBR=100)

STABILIZED SUBGRADE (MIN. LBR=40)

PAVER TO BE FIRMLY BONDED TO CONCRETE HEADER

4" MORTAR PER SEC. 36 OF CITY CONST. STANDARDS

ALTERNATE HEADER CURB DETAIL
GENERAL NOTES:
1. 2’ WIDE FLARE OR OPTIONAL 4’ RADIUS
2. UTILITY LOCATES SHALL BE CALLED AND DOCUMENTED PRIOR TO FIRST INSPECTION.
3. IF NEW DRIVEWAY LIMITS COVER EXISTING SEWER LATERAL:
   A. NEW CLEANOUT SHALL BE INSTALLED AT THE PROPERTY LINE WITH NEW TRAFFIC RATED BOX OR
   B. EXISTING SEWER LATERAL SHALL BE RELOCATED WITH NEW CLEAN OUT INSTALLED AT PROPERTY LINE
4. SIDEWALKS SHALL BE CONCRETE, CONFORM TO CITY RIGHT OF WAY CONSTRUCTION & ENGINEERING STD DETAIL C2.1, AND RUN CONTINUOUSLY THROUGH DECORATIVE DRIVEWAYS.
5. CONCRETE Pavers SHALL CONFORM TO ASTM C-936, CLAY Pavers SHALL BE HARD-BURNED AND SHALL CONFORM TO ASTM C-902. THE MINIMUM PAVER THICKNESS SHALL BE 3/16”. THE DEVIATION FROM STANDARD THICKNESS REQUIRES SHOP DRAWING APPROVAL & ADDITIONAL 6” THICK CONCRETE BASE (MIN. 3000 P.S.I.) REQUIRED.
6. BEDDING SAND SHALL BE GRANULAR AND FINELY GRADED, LIMEROCK BASE SHALL BE BROUGHT UP TO GRADE BEFORE BEDDING SAND IS INSTALLED, BEDDING SAND SHALL NOT BE USED TO COMPENSATE FOR ANUNEVEN LIMEROCK BASE, PAVER GRADES SHALL BE SLOPED TO ENSURE PROPER DRAINAGE TO SWALE IN CONFORMANCE WITH STD DETAIL C1.3R & D4.2R.
7. PAVER JOINTS SHALL BE 1/8” WIDE, WITH A 1/16” TOLERANCE. ALL JOINTS SHALL BE SWEPT WITH DRY SAND UP TO THE PAVER SURFACE AND COMPACTED WITH A VIBRATORY PLATE COMPACTOR.
8. ALL MATERIALS, WORKMANSHIP, AND RESTORATION OF FEATURES IN THE EDGE OF 6”X6” CONCRETE HEADER, 2500 P.S.I., W/ 1-#4 BAR MORTAR PER SEC. 36 OF CITY CONST. STANDARDS
9. FOR DRIVEWAYS CONSTRUCTED THAT PROVIDE MORE THAN 6’ FROM PROPERTY LINE, BLOCK CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD DRIVEWAY PAVER DETAIL DW-P-1.
GENERAL NOTES:

1. '2 WIDE FLARE OR OPTIONAL 4' RADIUS
2. UTILITY LOCATES SHALL BE CALLED AND DOCUMENTED PRIOR TO FIRST INSPECTION.
3. IF NEW DRIVEWAY LIMITS COVER EXISTING SEWER LATERAL:
   A. NEW CLEANOUT SHALL BE INSTALLED AT THE PROPERTY LINE WITH NEW TRAFFIC RATED BOX OR
   B. EXISTING SEWER LATERAL SHALL BE RELOCATED WITH NEW CLEAN OUT INSTALLED AT PROPERTY LINE
4. SIDEWALKS SHALL BE CONCRETE, CONFORM TO CITY RIGHT OF WAY CONSTRUCTION & ENGINEERING STD DETAIL C2.1, AND RUN CONTINUOUSLY THROUGH ALL DRIVEWAYS.
5. PAVEMENT GRADES SHALL BE SLOPED TO ENSURE PROPER DRAINAGE TO SWALE IN CONFORMANCE WITH STD DETAIL D4.2R.
6. ALL MATERIALS, WORKMANSHIP, AND RESTORATION OF FEATURES IN THE RIGHT-OF-WAY SHALL BE TO THE SATISFACTION OF THE CITY ENGINEER OR INSPECTOR. MATERIAL CERTIFICATIONS, SAMPLES, SHOP DRAWINGS, & DENSITY TESTS MAY BE REQUIRED BY THE CITY INSPECTOR FOR VERIFICATION.
7. FOR DRIVEWAYS CONSTRUCTED WITHIN 6' OF PROPERTY LINE, CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAIL C1.3R-ALT AND BEYOND SIDE PROPERTY LINE (FOR PORTION OF D/W DRIVEWAY SHALL SLOPE AWAY FROM CITY RIGHT OF WAY - REFER TO PROPERTY LINE.

NOTE: FINAL DRIVEWAY ELEVATION AT SWALE MEASURED TO TOP OF PAVER (NOT HEADER CURB) FOR ALT. CURB DETAIL.

SECTION A-A
ASPHALT SECTION
N.T.S.

SECTION A-A
CONCRETE
N.T.S.

CITY OF FORT LAUDERDALE
DEPT. OF SUSTAINABLE DEVELOPMENT
RIGHT OF WAY ENGINEERING & CONSTRUCTION

DRIVEWAY WITHOUT CURB
CONSTRUCTION IN CITY ROW

ISSUED: 1/2016

DETAIL TITLE: C1.3R

R1-2/2016
GENERAL NOTES:

1. 2' WIDE FLARE OR OPTIONAL 4' RADIUS
2. UTILITY LOCATES SHALL BE CALLED AND DOCUMENTED PRIOR TO FIRST INSPECTION.
3. IF NEW DRIVEWAY LIMITS COVER EXISTING SEWER LATERAL:
   A. NEW CLEANOUT SHALL BE INSTALLED AT THE PROPERTY LINE WITH NEW TRAFFIC RATED BOX OR
   B. EXISTING SEWER LATERAL SHALL BE RELOCATED WITH NEW CLEAN OUT INSTALLED AT PROPERTY LINE
4. SIDEWALKS SHALL BE CONCRETE, CONFORM TO CITY RIGHT OF WAY CONSTRUCTION & ENGINEERING STD DETAIL C.2.1, AND RUN CONTINUOUSLY THROUGHOUT ALL DRIVEWAYS.
5. PAVEMENT GRADES SHALL BE SLOPED TO ENSURE PROPER DRAINAGE TO SWALE IN CONFORMANCE WITH STD DETAIL D.4.2R.
6. ALL MATERIALS, WORKMANSHIP, AND RESTORATION OF FEATURES IN THE RIGHT-OF-WAY SHALL BE TO THE SATISFACTION OF THE CITY ENGINEER OR INSPECTOR. MATERIAL CERTIFICATIONS, SAMPLES, SHOP DRAWINGS, & DENSITY TESTS MAY BE REQUIRED BY THE CITY INSPECTOR FOR VERIFICATION.
7. FOR DRIVEWAYS CONSTRUCTED THAT PROVIDE MORE THAN 6' FROM PROPERTY LINE, CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD DRIVEWAY PAVER DETAIL C1.3R.

* NOTE: FINAL DRIVEWAY ELEVATION AT SWALE MEASURED TO TOP OF PAVER (NOT HEADER CURB) FOR ALT. CURB DETAIL.
A typical Turfblock installation in City's swales consists of a soil subgrade, a gravel base, a layer of bedding sand and the turf block. Topsoil and grass, or stone aggregate is placed in the openings.

1. **Soil Subgrade:** The soil subgrade should be uniformly compacted to 95% of its optimum density prior to placing the gravel, sand and the grids.

2. **Aggregate Base:** Aggregate, 6-inch thick layer of FDOT No. 57 Stone shall be provided beneath turf blocks.

3. **Bedding Sand:** Bedding sand, between 1 and 1 1/2 inch thick layer shall be provided over the aggregate base. The sand should have uniform moisture content (not saturated) prior to placing the turf block. To maintain a level bedding surface, the sand should not be disturbed.

4. **Edge Restraints:** Concrete edge restraints or turf block retainers are necessary for turf block installation in the City's swale. The retainers shall have an area of 4-inch wide by 8-inch high, with compressive strength of 3000 psi @ 28 days, and reinforced with a #4 bar.

Please be advised that the homeowner is responsible for maintaining the turf blocks at all times.

Provide a [Temporary Structure Affidavit](#).

Affidavit shall be properly executed and recorded in Broward County Records prior to permit issuance.