

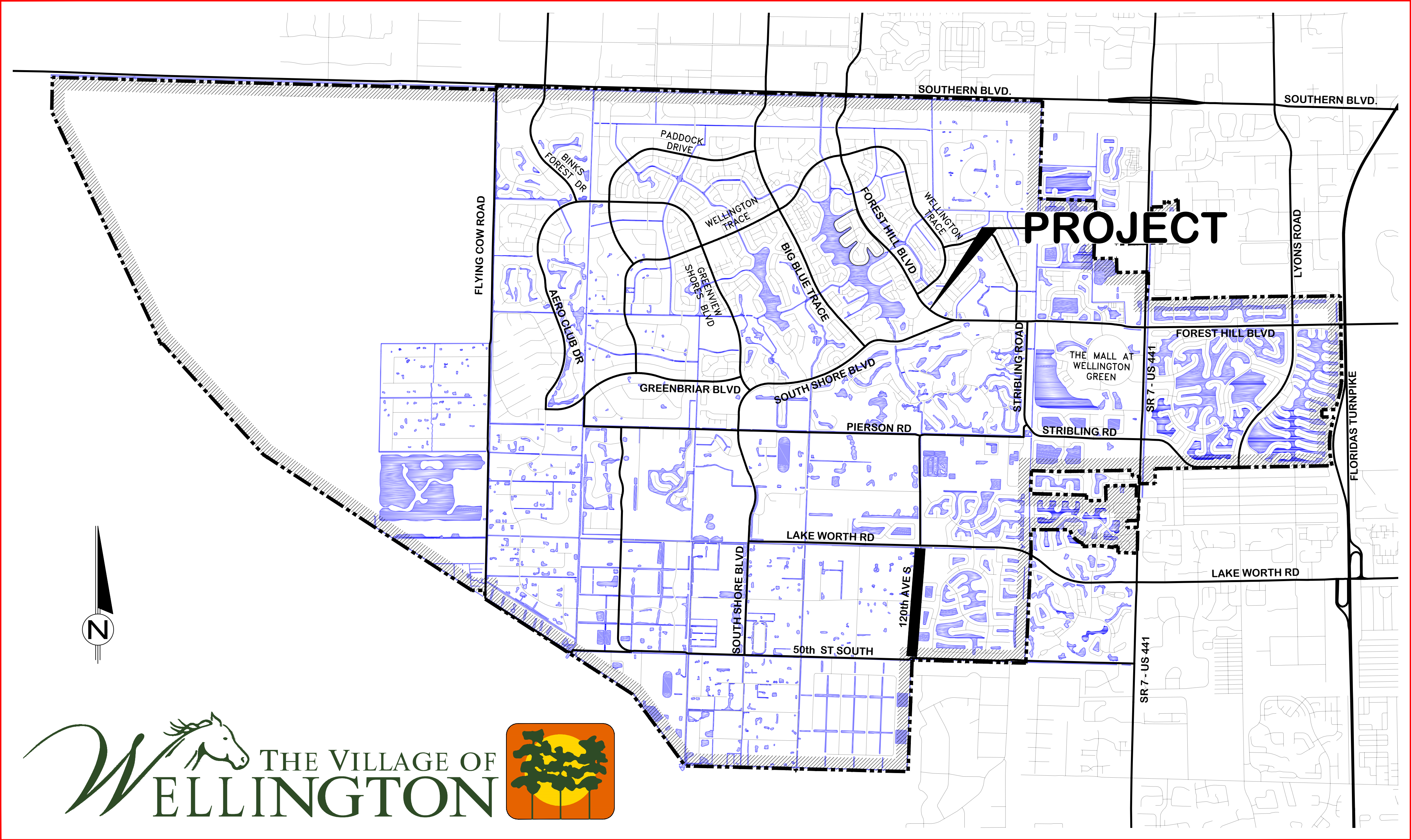
DRAINAGE IMPROVEMENTS FOR FOREST HILL BLVD.

(NEAR KEN ADAMS WAY)

VILLAGE CONCIL
ANNE GERWIG - COUNCILWOMAN - MAYOR
JOHN McGOVERN - VICE MAYOR
MICHAEL J. NAPOLEONE - COUNCILMAN
MICHAEL DRAHOS - COUNCILMAN
TANYA SISKIND - COUNCILWOMAN

DRAWING INDEX

SHEET NO.	DESCRIPTION
COV	COVER
1 OF 3	PLAN AND PROFILE
2 OF 3	NOTES AND DETAILS
3 OF 3	MAINTENANCE OF TRAFFIC



VILLAGE MAP
1:3,000 SCALE



REPRODUCTION:
ATTENTION IS DIRECTED TO THE FACT THAT THESE
PLANS MAY HAVE BEEN REDUCED IN SIZE BY
REPRODUCTION. THIS MUST BE CONSIDERED WHEN
OBTAINING SCALED DATA.

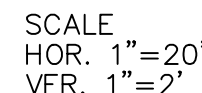
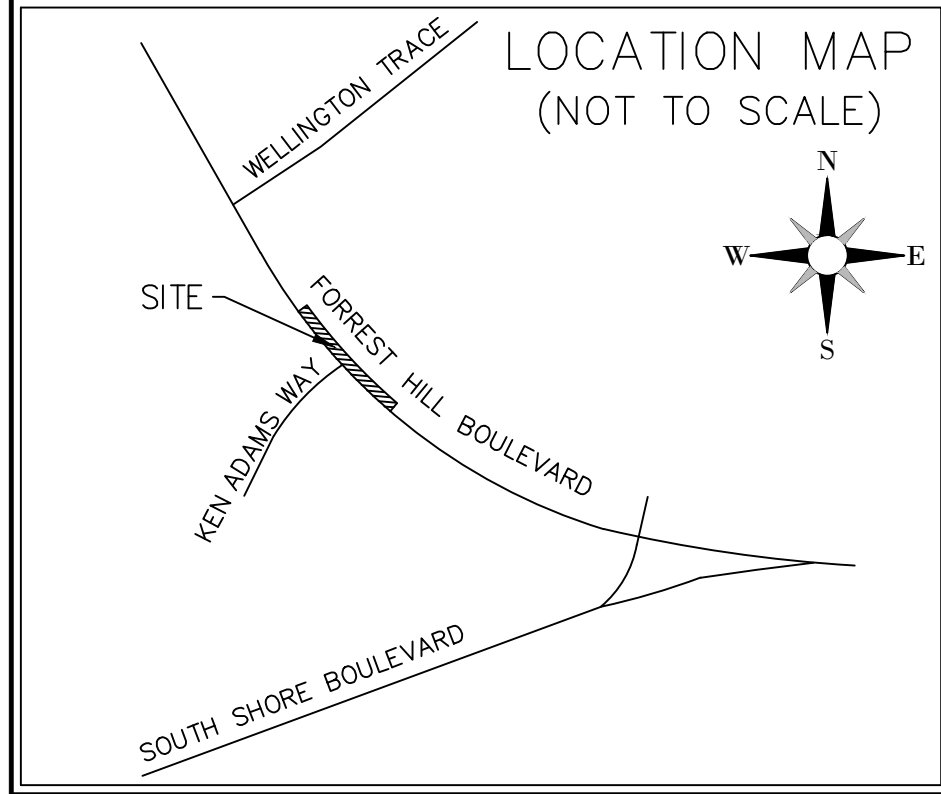
W:\Departments\Engineering\0_CAD\0_Projects\FY2017 Projects\Forest Hill Blvd. (Drainage Improvements)\FHB_Cover.dwg 5/17/2017 10:42 AM

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JONATHAN R. REINSVOLD
FLORIDA LICENSE
No. 74033

THE VILLAGE OF WELLINGTON
Engineering Department
12300 Forest Hill Boulevard, Wellington, Florida 33414

START DATE	05/2017	SHEET	COV
DRAWN	J.R.R.		
PROJECT ENGINEER	J.R.R.		
PROJECT MANAGER	J.R.R.		
CHECKED	T.J.L.		JOB NO. --

BID PLANS
05/11/2017



BID PLANS
05 / 21 / 2017

JOB NO.	1	START DATE	05/2017
		DRAWN	JRR
		PROJECT ENGINEER	JRR
		PROJECT MANAGER	JRR
		CHECKED	T.J.L

CONSTRUCTION PROCEDURES

THE BACKFILL FOR THE FIRST AND SECOND STAGES SHALL BE PLACED IN 6" LAYERS (COMPACTED THICKNESS) AND SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

STAGE 1:

THE CONTRACTOR SHALL PROVIDE ADEQUATE COMPACTED FILL BENEATH THE HAUNCHES OF THE PIPE, USING MECHANICAL TAMPS SUITABLE FOR THIS PURPOSE. THIS COMPACTION APPLIES TO THE MATERIAL PLACED BENEATH THE HAUNCHES OF THE PIPE AND ABOVE ANY BEDDING REQUIRED.

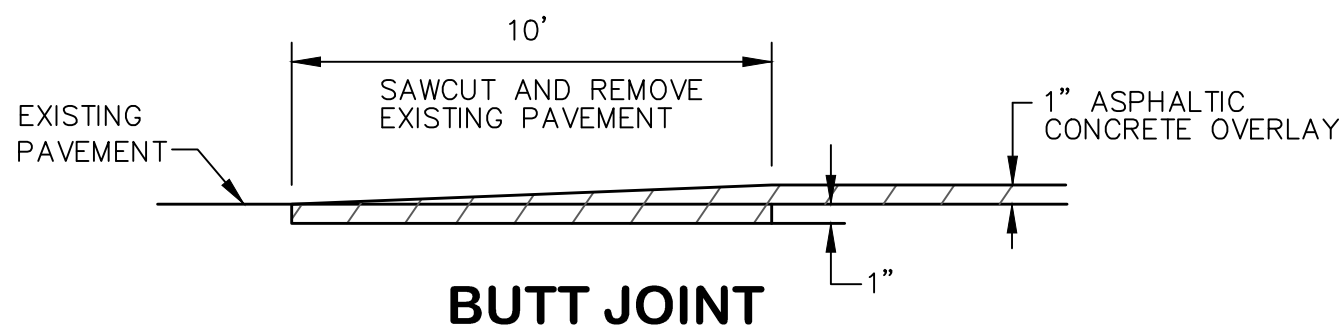
STAGE 2:

THE CONTRACTOR SHALL OBTAIN A WELL-COMPACTED BED AND FILL ALONG THE SIDES OF THE PIPE AND TO A POINT INDICATING THE TOP OF SUB-GRADE MATERIAL.

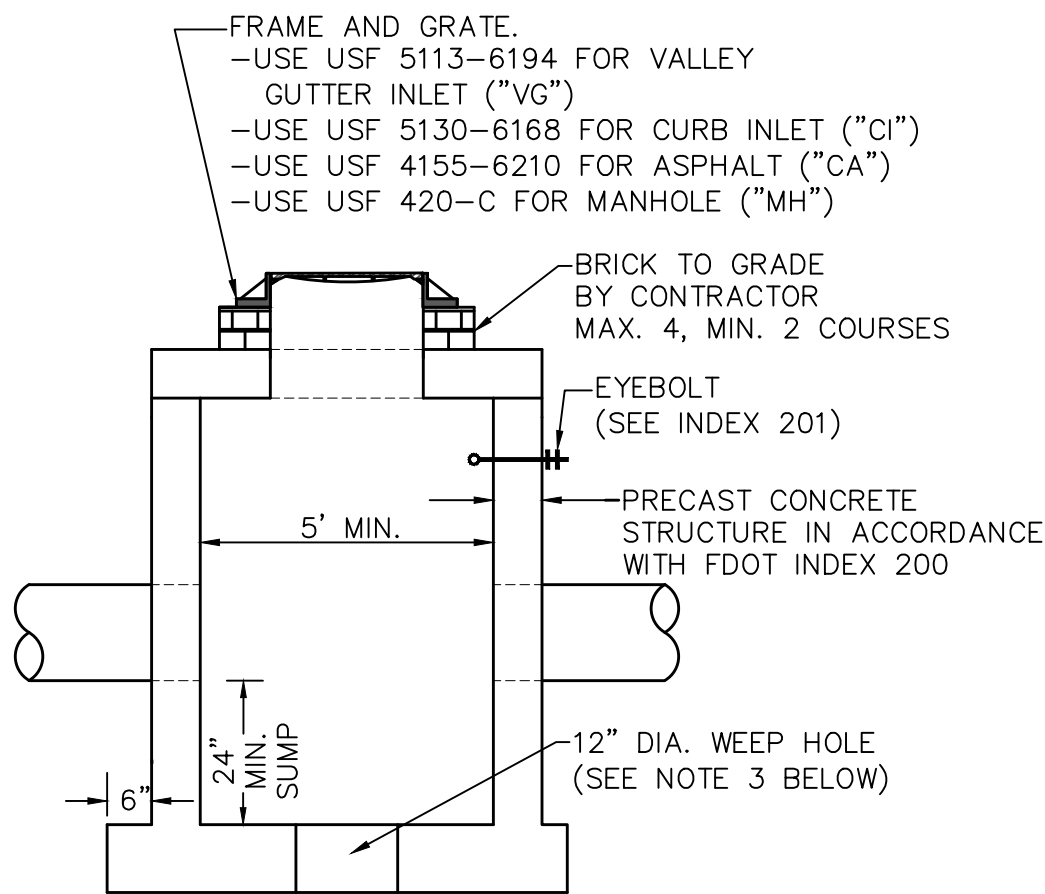
NOTES

- 1) BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8" - 7/8" SIZING WITH EQUAL OR GREATER STRUCTURAL ADEQUACY AS EXISTING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
- 2) REPLACED BASE MATERIAL OVER DITCH SHALL BE 16" LIMEROCK (LBR100) MINIMUM FOR THOROUGHFARE PLAN ROADWAYS. REPLACEMENT OF MATERIAL REQUESTED BY THE ENGINEER OF RECORD REQUIRES APPROVAL BY THE ROADWAY PRODUCTION DIVISION.
- 3) ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED AND BUTT-JOINTED.
- 4) BASE MATERIAL (PER ROADWAY PRODUCTION DESIGN STANDARDS) SHALL BE PLACED IN TWO OR THREE LAYERS (6" MAX. PER LAYER) AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO THE SPECIFIED DENSITY. (MINIMUM 98% AASHTO - T-180)
- 5) 1.5" FRICTION COURSE FC-9.5 OVER 1.12" TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL C) WITH TACK COAT AT 0.05 GAL/SY AND RC-70 PRIME COAT AT 0.10 GAL/SY FOR LIMEROCK BASE. FOLLOW THE LATEST FDOT SPECIFICATIONS FOR APPLICATION RATES OF ROADWAY TACK COATS. CONTRACTOR TO SUBMIT MATERIALS AND RATES TO ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.
- 6) PIPE SHALL BE PLACED IN A DRY TRENCH.
- 7) ALL ROADWAY REPAIR WORK SHALL BE PERFORMED IN CONFORMANCE WITH APPLICABLE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND COUNTY PMM EL-D-3605.
- 8) DENSITY TESTS SHALL BE TAKEN IN 1 FT LIFTS ABOVE THE PIPE AT INTERVALS OF 400 FT MAXIMUM (1 FT MINIMUM) OR CONSTRUCTION COORDINATION DIVISION. RESULTS SHALL BE SUBMITTED TO CONSTRUCTION COORDINATION DIVISION AS PART OF THEIR FIELD REVIEW.
- 9) ENGINEER-OF-RECORD SHALL PROVIDE FULL-TIME INSPECTION DURING THE ENTIRETY OF THE OPEN-CUT OPERATION, BEGINNING WITH THE EXCAVATION AND CONTINUING THROUGH THE COMPLETION OF THE PAVING.
- 10) IF THE PAVEMENT IS NOT COMPLETELY RESTORED IMMEDIATELY FOLLOWING THE OPEN CUT, A SMOOTH TEMPORARY PATCH (MINIMUM 1.5' SP 12.5 STRUCTURAL COURSE ASPHALT) SHALL BE INSTALLED, PROPERLY MATCHING THE EXISTING PAVEMENT. THE TEMPORARY PATCH SHALL BE ALLOWED TO REMAIN IN PLACE AND BE MAINTAINED FOR A PERIOD NO LONGER THAN 45 DAYS. THE COUNTY RETAINS THE RIGHT TO USE POSTED SURETY TO COMPLETE ANY RESTORATION WORK THAT HAS NOT BEEN COMPLETED IN THE 45 DAY PERIOD. ALTERNATIVE PAVING TRENCH PROTECTION (STEEL PLATES OR OTHERS) MAY BE APPROVED BY THE CONSTRUCTION COORDINATION DIVISION.
- 11) FOR FINAL RESTORATION (INCLUDES THE PATCHED/SURFACE REPLACEMENT AREA OVER THE TRENCH), THE ROAD SHALL BE MILLED/RESURFACED PER NOTE 5 ABOVE FOR A FULL LANE WIDTH OF THE TRAVEL LANS ENCLOSED BY THE TRENCH AREA, INCLUDING A TRANSITION AREA OF 50 FT ON EACH SIDE MEASURED FROM TOP OF TRENCH.
- 12) APPROVED MAGNETIC TAPE IS REQUIRED FOR ALL MAIN PRESSURE PIPES AND CONDUIT IN THE COUNTY'S RIGHT-OF-WAY. INSTALL TAPE 24" BELOW FINISHED GRADE.
- 13) CONTINUOUS 4" WIDE PAINT STRIPING IS REQUIRED FOR DIP/PCCP WATER MAINS (BLUE), SANITARY MAINS (GREEN), DIP RECLAIMED WATER MAINS (PURPLE), GAS MAINS (YELLOW), OR AS REQUIRED BY THE APWA.

01/28/2016



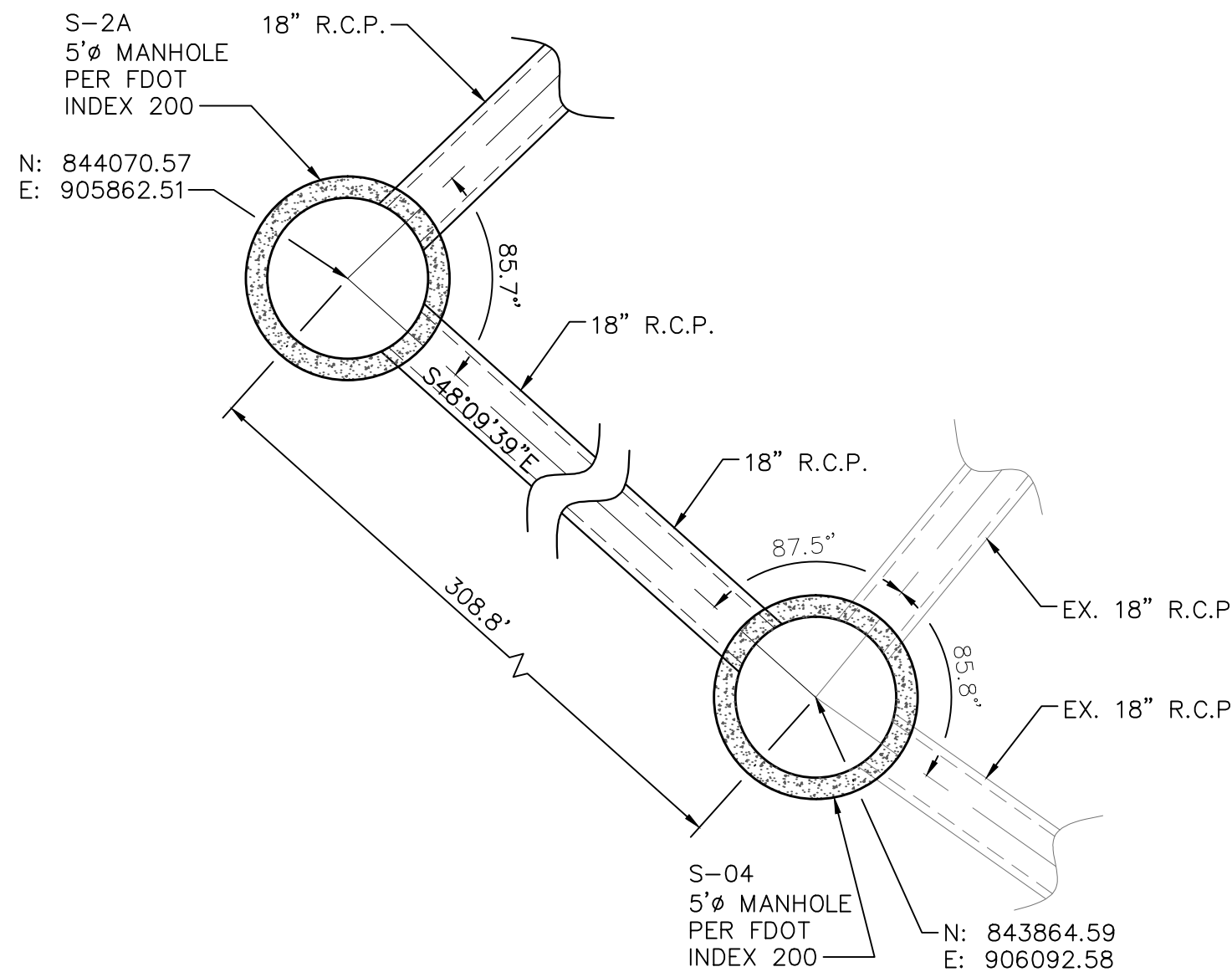
ELEVATIONS SHOWN IN NGVD



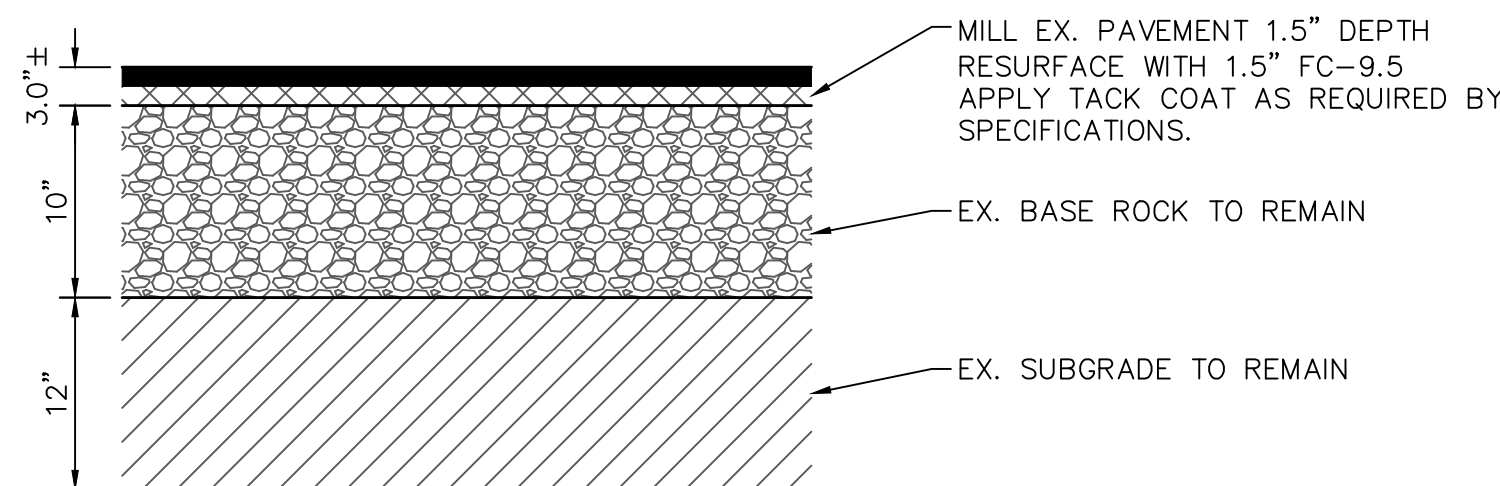
NOTE:

1. STRUCTURE MANUFACTURED/AND/OR CONTRACTOR SHALL CONFIRM ALL REINFORCEMENT MEETS FDOT STANDARDS PER FDOT INDEX 200 PRIOR TO SUBMITTING ANY SHOP DRAWING FOR APPROVAL.
2. ALL DRAINAGE INLETS SHALL HAVE AN EYEBOLT AND CHAIN IN ACCORDANCE WITH FDOT INDEX 201.
3. USE WEEP HOLE ONLY WHEN BOTTOM OF STRUCTURE IS BELOW WATER TABLE. 3/4" WASH-ROCK TO BE INSTALLED WHEN WEEP HOLE IS REQUIRED.

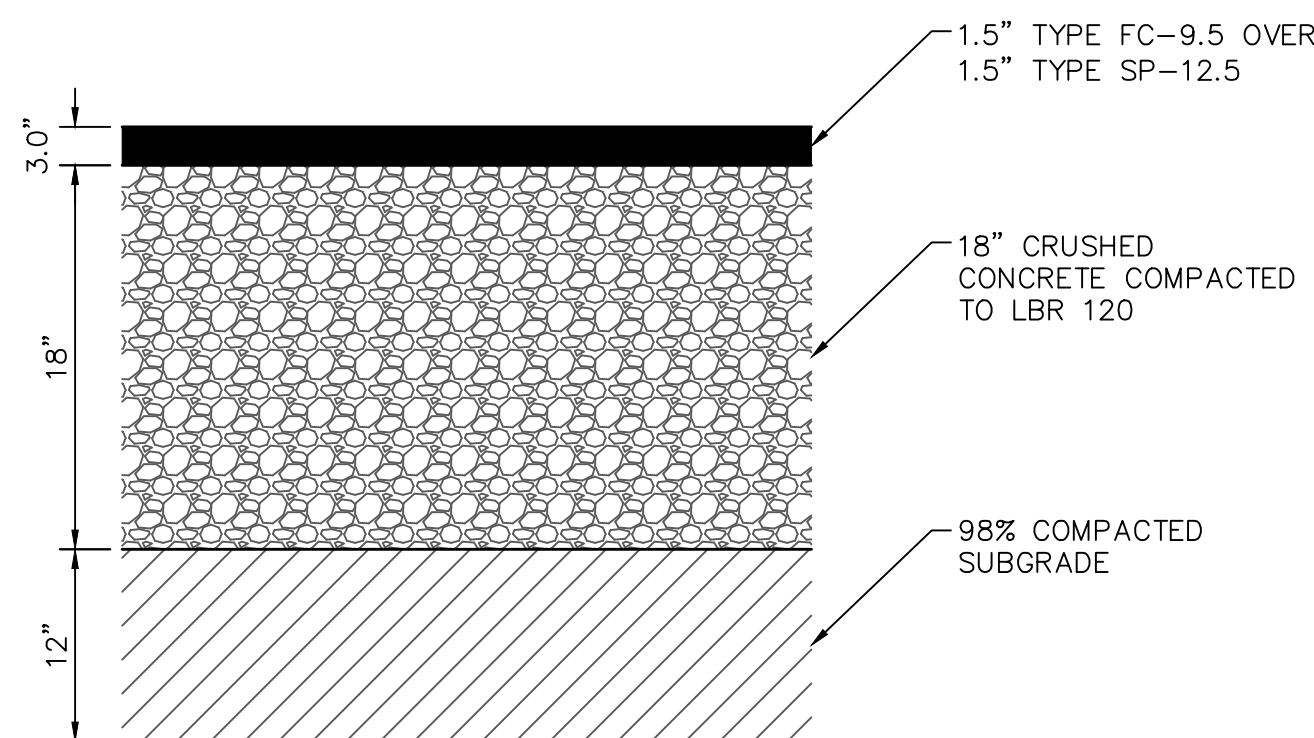
TYPICAL DRAINAGE STRUCTURE



STORM SEWER LAYOUT DETAIL



MILL AND RESURFACE SECTION



PAVEMENT RESTORATION SECTION

GENERAL NOTES

1. ALL WORK AND MATERIAL TESTING SHALL CONFORM TO FDOT SPECIFICATIONS AND DESIGN STANDARDS, LATEST EDITION, UNLESS SPECIFIED OTHERWISE.
2. POSTED SPEED LIMIT: 40 MPH;
3. WORK INCLUDED
- 3.1. THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERINTENDENCE, QUALITY CONTROL, MATERIALS, PLANT, POWER, LIGHT, HEAT, FUEL, WATER, TOOLS, APPLIANCES, EQUIPMENT, SUPPLIES, AND OTHER MEANS OF CONSTRUCTION NECESSARY TO DESIGN AND CONSTRUCTING THE PROJECT. THE CONTRACTOR SHALL PERFORM AND COMPLETE THE WORK IN THE MANNER BEST CALCULATED TO PROMOTE SCHEDULED CONSTRUCTION CONSISTENT WITH SAFETY OF LIFE AND PROPERTY AND TO THE SATISFACTION OF THE OWNER.
- 3.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, CLEAR-UP OF WORK, MAINTAIN IT DURING CONSTRUCTION, AND PAY ALL COSTS INCIDENTAL THERETO. CONTRACTOR SHALL REPAIR OR RESTORE ALL STRUCTURES AND PROPERTY THAT MAY BE DAMAGED OR DISTURBED DURING THE PERFORMANCE OF THE WORK.
- 3.3. THE COST OF INCIDENTAL WORK DESCRIBED IN THESE GENERAL REQUIREMENTS, FOR WHICH THERE ARE NO SPECIFIC CONTRACT ITEMS, SHALL BE CONSIDERED AS PART OF THE GENERAL COST OF DOING THE WORK AND SHALL BE INCLUDED IN THE PRICES FOR THE VARIOUS CONTRACT ITEMS. NO ADDITIONAL PAYMENT WILL BE MADE THEREFOR.
- 3.4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUCH MODERN PLANT, TOOLS, AND EQUIPMENT AS MAY BE NECESSARY IN THE OPINION OF THE ENGINEER, TO PERFORM IN A SATISFACTORY AND ACCEPTABLE MANNER ALL THE WORK REQUIRED BY THIS CONTRACT. ONLY EQUIPMENT OF ESTABLISHED REPUTATION AND PROVEN EFFICIENCY SHALL BE USED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ADEQUACY OF WORKMANSHIP, MATERIALS AND EQUIPMENT, PRIOR APPROVAL OF THE ENGINEER NOTWITHSTANDING.
4. SHOP DRAWINGS, PRODUCT DATA AND SAMPLES FOR ENGINEER'S REVIEW
- 4.1. SUBMIT AT LEAST FIVE (5) COPIES OF ALL REQUIRED SHOP DRAWINGS, PRODUCT DATA AND SAMPLES FOR ENGINEER'S REVIEW.
- 4.2. SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND TRANSMITTAL LETTERS PERTAINING THERETO SHALL BE SUBMITTED WITHIN FIVE (5) DAYS OF THE PROJECT SUBMISSION DATE, AND THE CONTRACTOR'S ACKNOWLEDGEMENT THAT HE HAS REVIEWED THEM AND FOUND THEM ACCEPTABLE.
- 4.3. NOTIFY ENGINEER IN WRITING, AT THE TIME OF SUBMITTAL, OF ANY DEVIATIONS IN THE SUBMITTALS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 4.4. THE REVIEW AND APPROVAL OF SHOP DRAWINGS, SAMPLES OR PRODUCT DATA BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR FROM HIS/HER RESPONSIBILITY WITH REGARD TO THE FULFILLMENT OF THE TERMS OF THE CONTRACT DOCUMENTS. ALL RISKS OF ERROR AND OMISSION ARE ASSUMED BY THE CONTRACTOR AND NOT THE ENGINEER.
5. THE LOCATION OF ALL EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY AND ARE BASED ON AS-BUILT SURVEY INFORMATION. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ANY AND ALL KNOWN CONFLICTS WITH EXISTING UTILITIES SHALL BE REPORTED TO THE CONSULTANT. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NOT AN ADDITIONAL COMPLETION OF THE WORK. IF THE THE COMPANY SHALL BE INVOLVED IN ANY EXCAVATION INVOLVING THEIR UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT, DETERMINATION OF THE EXACT LOCATION OF ANY/ALL UTILITIES WHICH MAY BE INVOLVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING UTILITY LOCATION PRIOR TO SUBMITTING SHOP DRAWINGS OF PRECAST COMPLEX STRUCTURES FOR APPROVAL.
- | UTILITY OWNERS: | CONTACT: | TELEPHONE NO. |
|--------------------------|----------------|----------------|
| AT&T | ANDREA EMERT | (561) 557-6645 |
| COMCAST CABLEVISION | JENNIE MCNEORE | (561) 881-3255 |
| FLORIDA POWER & LIGHT | ALAN BOAZ | (561) 575-6346 |
| FLORIDA PUBLIC UTILITIES | WESLEY KREPPS | (561) 684-4030 |
| VILLAGE OF WELLINGTON | COREY ROBINSON | (561) 753-2644 |
| PALM BEACH COUNTY | | |
| TRAFFIC COMMUNICATION | SUPERINTENDENT | (561) 533-3900 |

UTILITY OWNERS:	CONTACT:	TELEPHONE NO.
AT&T	SANDRA EMERT	(561) 357-6616
COMCAST CABLEVISION	JEANNINE MCENROE	(561) 881-3255
FLORIDA POWER & LIGHT	ALAN BOAZ	(561) 575-6344
FLORIDA PUBLIC UTILITIES	VINCE KREPPS	(561) 684-4033
VILLAGE OF WELLINGTON	COREY ROBINSON	(561) 753-2466
PALM BEACH COUNTY		
TRAFFIC COMMUNICATION	SUPERINTENDENT	(561) 533-3900


















1. THE CONTRACTOR SHALL NOTIFY THE PROPER UTILITY COMPANY AT LEAST 48 HOURS IN ADVANCE OF ANY EXCAVATION NEAR OR AROUND THEIR FACILITY SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT.
2. THE CONTRACTOR IS TO USE EXTREME CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES.
3. THE CONTRACTOR IS TO PROTECT UNDERGROUND UTILITIES DURING CONSTRUCTION AT ALL TIMES.
4. FOR UTILITY ADJUSTMENT SYMBOLS, SEE FDOT STANDARD INDEX 002.
5. ANY AND ALL LOTS, LOTS OF LAND, OR ANY OTHER PROPERTY IS TO BE PROTECTED, IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED THE CONTRACTOR SHALL NOTIFY THE COUNTY SURVEYOR WITHOUT THE WAY BY TELEPHONE.
6. ALL ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929 IN FEET.
7. TO CONVEY NAD 1989 TO NAD 1983, THE NAD 1988 ELEVATION.
8. TOPOGRAPHIC SURVEY PERFORMED BY CAULFIELD AND WHEELER, APRIL 2017.
9. ANY NGVD 29 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED.
10. ALL EXISTING TREES OR SHRUBS IN CONTACT WITH PROPOSED PATHWAYS WITHIN R/W SHALL BE REMOVED.
11. NEATLY REMOVE OR REMOVE ALL EXIST. TREES, HEDGES AND OTHER VEGETATION (INCLUDING THOSE NOT SHOWN HEREON) WITHIN THE RIGHT OF WAY.
12. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE NOTED.
13. ALL EXISTING PIPES THAT ARE TO REMAIN ARE TO BE CLEANED OUT (DESILED) AS DIRECTED BY THE ENGINEER.
14. ALL SLOPES AND OFFSETS ARE FROM THE CENTERLINE OF CONSTRUCTION TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
15. RADIO, DIMENSIONS AND ELEVATIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
16. EXISTING GRASS SHALL BE MAINTAINED AND SOWN WITH FRESH GRASS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING LANDSCAPING AND IRRIGATION SYSTEMS LOCATED ON PRIVATE PROPERTY. REPAIR OR REPLACEMENT OF SYSTEMS DAMAGE BY THE CONTRACTOR SHALL BE MADE AT THE EXPENSE OF THE CONTRACTOR.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORKERS SHALL BE IN COMPLIANCE WITH CURRENT OSHA, STATE, COUNTY AND LOCAL REGULATIONS, WHICH INCLUDE BUT ARE NOT LIMITED TO 54 CFR 45894 and 29 CFR 1926.650 & 651 AND THE FLORIDA TRENCH SAFETY ACT.
19. THE CONTRACTOR SHALL OBTAIN A DESIGNING GENERAL WATER USE PERMIT FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT PRIOR TO COMMENCING DEWATERING UNLESS THE WORK QUALIFIES FOR A "NO-NOTICE" AUTHORIZATION AS DESCRIBED IN RULE 40C-20.302(3) OF THE FLORIDA ADMINISTRATIVE CODE AND APPROVED SET OF CONSTRUCTION PLANS AND CONTRACT DOCUMENTS SHALL BE MAINTAINED BY THE CONTRACTOR ON SITE AT ALL TIMES DURING CONSTRUCTION OPERATIONS.
20. SALVAGE MATERIAL
21. ALL SALVAGEABLE MATERIAL AND EQUIPMENT REMOVED FROM THE EXISTING CONSTRUCTION FOR WHICH SPECIFIC USE, RELOCATION OR OTHER DISPOSAL IS NOT SPECIFICALLY NOTED ON THE DRAWINGS OR OTHERWISE SPECIFICALLY NOTED ON THE DRAWINGS OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER. ALL MATERIAL AND EQUIPMENT NOT IN SALVAGEABLE CONDITION AS DETERMINED BY THE ENGINEER, SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER AT THE CONTRACTOR'S EXPENSE. THE ACTUAL STORAGE SITE FOR SALVAGEABLE MATERIAL WILL BE DESIGNATED BY THE OWNER.
22. CLEANING
23. DURING CONSTRUCTION OF THE WORK, THE CONTRACTOR SHALL, AT ALL TIMES, KEEP THE SITE OF THE WORK AND ADJACENT PREMISES AS FREE FROM MATERIAL, DEBRIS AND RUBBISH AS IS PRACTICABLE AND SHALL REMOVE THE SAME FROM ANY PORTION OF THE SITE IF, IN THE OPINION OF THE ENGINEER, SUCH MATERIAL, DEBRIS OR RUBBISH IS A HAZARD TO THE PUBLIC OR TO THE ENVIRONMENT.
24. AT THE CONCLUSION OF THE WORK, ALL TOOLS, TEMPORARY STRUCTURES AND MATERIALS BELONGING TO THE CONTRACTOR SHALL BE PROMPTLY TAKEN AWAY AND CONTRACTOR SHALL REMOVE AND PROMPTLY DISPOSE OF ALL RUBBISH AND OTHER FOREIGN MATERIAL FROM THE CONSTRUCTION SITE, THOROUGHLY CLEAN ALL MATERIAL INSTALLED AND SHALL LEAVE SUCH MATERIALS UNDAMAGED IN A CLEAN AND NEW CONDITION.
25. ALL PAVEMENT STRIPING SHALL BE THERMOPLASTIC.
26. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
27. DURING CONSTRUCTION OF THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND KEEPING ON-SITE ALL REQUIRED PERMITS.
28. ALL PEDESTRIAN ROUTES SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. CROSS SLOPES SHALL NOT EXCEED 2% AND LONGITUDINAL SLOPES SHALL NOT EXCEED 5%.
29. ALL UTILITY CONFLICTS ENCOUNTERED SHALL BE COORDINATED WITH ENGINEER, AND APPROPRIATE UTILITY COMPANY.
30. ALL DISTURBED AREAS SHALL BE RE-SEEDDED, BAHIA SOD TO BE USED IN UN-IRRIGATED AREAS. FLORITAM SOD SHALL BE USED IN IRRIGATED AREAS TO BE USED FOR CONSTRUCTION.
31. CURB RAMPS SHALL BE PER INDEX NO. 304 OF THE FDOT DESIGN STANDARDS.
32. AS-BUILT PLANS SHALL BE PREPARED IN ACCORDANCE WITH THE FDOT PREPARATION AND DOCUMENTATION MANUAL CHAPTER 4.
33. EROSION SURVEY, TOPOGRAPHY AND UNDERGROUND UTILITIES LOCATION DETERMINATION PREPARED BY WATMAN GROUP.

SURVEYORS NOTES (BASEMAP)

1. LANDS SHOWN HEREON ARE NOT ABSTRACTED FOR RIGHTS-OF-WAY, EASEMENTS, OWNERSHIP, OR OTHER INSTRUMENTS OF RECORD.
2. BEARINGS SHOWN HEREON ARE RELATIVE TO THE EAST LINE OF SECTION 10, TOWNSHIP 44 SOUTH, RANGE 41 EAST, SAID LINE BEARING S02°06'21"W.
3. UNDERGROUND FOUNDATIONS WERE NOT LOCATED.
4. ADDITIONS OR DELETIONS TO SURVEY MAPS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
5. BEARINGS SHOWN HEREON ARE RELATIVE TO THE THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83, 1990 ADJUSTMENT.
6. SUBJECT PROPERTY FALLS WITHIN ZONE 'B' (ACCORDING TO THE NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FLOOD INSURANCE RATE MAP (FIRM), IDENTIFIED AS COMMUNITY PANEL NUMBER 1201920100B, EFFECTIVE DATE: OCTOBER 15, 1982.
7. ROTATION FROM PLAT BEARING TO GRID BEARING = 0°02'56" CLOCKWISE.
8. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
9. BENCHMARK ORIGIN FROM BEACH COUNTY BENCHMARK 1740 N.W. 1/4; ELEVATION: 16.01.
10. THIS PURPOSE IS TO DELINEATE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING CONDITIONS OF THE NORTH HALF OF FOREST HILL BOULEVARD AS SHOWN ONLY AND DOES NOT CONSTITUTE A BOUNDARY SURVEY AS SUCH.

LEGEND

A/C - AIR CONDITIONER
L - ARC LENGTH
ALUM. - ALUMINUM
C - CEMENT
C - CLEANOUT
CLF - CHAIN LINK FENCE
C - CONCRETE
COV. COVERED
D.E. - DRAINAGE EASEMENT
ELEC. - ELECTRIC
ELEV. - ELEVATION
EQUIP. - EQUIPMENT
ESEM. - EASEMENT
EXIST. - EXISTING
F.P.L. - FLORIDA POWER & LIGHT
FIN. - FINISHED
FLOOR - FLOOR
INV. - INVENT
FND. - FOUND
R.U.E. - LIMITED ACCESS &
O.R.B. - ORIGINAL RECORD BOOK
P.B. - PLAT BOOK
P.O.C.R. - POINT OF BEGINNING
P.O.C. - POINT OF COMMENCEMENT
P.P.M. - PERMANENT REFERENCE
PROP. - PROPOSED
RAD. - RADIAL
R/W - RIGHT-OF-WAY
Δ - DELTA (CENTRAL ANGLE)

SQ. FT. = SQUARE FEET
 TYP. = TYPICAL
 U.E. = UTILITY EASEMENT
 = LIGHT POLE
 = FIRE HYDRANT
 = CATCH BASIN
 = WATER VALVE
 = SANITARY MANHOLE
 = DRAINAGE MANHOLE
 = WOOD POWER POLE (UNLESS NOTED)
 = CENTER LINE
 C = EXISTING ELEVATION
 T = TRAFFIC SIGN
 = ELECTRICAL WIRES OVERHEAD
 = ANCHOR
 = WATER METER
 = RFPZ
 = GROUND LIGHT
 = ELECTRIC HAND HOLE
 = IRRIGATION CONTROL VALVE
 = CONCRETE POWER POLE
 = FIRE DEPARTMENT CONNECTION

PAVING

1. IMMEDIATELY CEASE TRANSPORTATION OF ASPHALT MIXTURES FROM THE PLANT WHEN RAIN BEGINS AT THE ROADWAY. DO NOT PLACE ASPHALT MIXTURES WHILE RAIN IS FALLING, OR WHEN THERE IS WATER ON THE SURFACE TO BE COVERED.
2. CONTRACTOR SHALL COMPLY WITH SECTION 330 OF FDOT STANDARD SPECIFICATIONS 2000 FOR TYPE "C" SERIES ASPHALT, AS SPECIFIED.
3. DENSITIES SHALL COMPLY WITH FOOT SECTION 330A-10.3.1
4. OBTAIN A SMOOTH SURFACE ON ALL PAVEMENT COURSES PLACED AND THEN STRAIGHTEDGE ALL INTERMEDIATE AND FINAL COURSES WITH A 15-FOOT ROLLING STRAIGHTEDGE. FURNISH A 15-FOOT STRAIGHTEDGE AND MAKE IT AVAILABLE AT THE JOB SITE AT ALL TIMES DURING THE PAVING OPERATION FOR CHECKING JOINTS AND SURFACE IRREGULARITIES.
5. FILL ALL CRACKS, HOLES, AND OTHER TEXTURE AND COMPACTION WITH NO PULLED, TORN, OR LOOSENED PORTIONS AND FREE OF SEGREGATION, AND STREAKS, SAND SPOTS, OR RIPPLES.
6. UPON COMPLETION OF FINAL SURFACE COURSE ENGINEER WILL TEST FINISHED SURFACE WITH A 15- FOOT ROLLING STRAIGHTEDGE. CORRECT ALL DEFICIENCIES IN EXCESS OF 3/16-INCH IN ACCORDANCE WITH PARAGRAPH 330-12 OF THE FOOT SPECIFICATIONS.
7. ENGINEER WILL DETERMINE PAVEMENT THICKNESS FROM THE DEPTH OF CORE BORINGS. THE MAXIMUM ALLOWABLE DEFICIENCY IN THICKNESS FOR PAVEMENT OF A SPECIFIED THICKNESS OF 2 1/2 INCHES OR MORE IS 1/4 INCH. FOR PAVEMENT OF A SPECIFIED THICKNESS OF LESS THAN 2 1/2 INCHES IS 1/8 INCH.
8. IMMEDIATELY AFTER PLACEMENT, PROTECT PAVEMENT FROM MECHANICAL INJURY FOR AS LONG AS REQUIRED UNTIL ACCEPTED BY ENGINEER.

DRAINAGE

1. NOTIFY ENGINEER OF FIELD CONFLICTS OR DESIGN DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
2. EXISTING WATER, SEWER AND DRAINAGE SYSTEMS ARE REPRESENTED AS DASHED LINES AND SHALL BE VERIFIED BY CONTRACTOR.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITIES AND PUBLIC IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED DURING CONSTRUCTION AND SHALL REPAIR SAID DAMAGES AT HIS EXPENSE. CONTRACTOR TO RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION TO ORIGINAL OR BETTER CONDITION.
4. SUPPORT OR THE RELOCATION OF EXISTING STREETLIGHT POLES POWER OR TELEPHONE POLES, EXISTING UTILITIES, IRRIGATION SYSTEMS, SIDEWALKS, WALLS, ETC., NECESSARY FOR COMPLETION OF THIS WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR AT HIS EXPENSE.
5. INFORMATION SHOWN ON THESE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE LATEST AND MOST RELIABLE DATA AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT TO BE GUARANTEED. HOWEVER, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE LOCATION OF ALL UTILITIES AND ANY EXISTING UTILITIES. ALL "AS-BUILT" INFORMATION INCLUDING LOCATION AND ELEVATION OF UTILITY STUB OUTS TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION OR ORDERING OF STRUCTURES. NOTIFY ENGINEER OF DISCREPANCIES/CONFLICTS.
6. ALL DRAINAGE CONSTRUCTION SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST ADDITION) AND THE VARIOUS LOCAL WEATHERING ORDINANCES.
7. ALL DRAINAGE PIPE SHOWN AS ROP SHALL BE REINFORCED CONCRETE PIPE CLASS III, WALL "B" AND CONFORMING TO THE FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
8. CONTRACTOR SHALL PROVIDE ADEQUATE EQUIPMENT FOR THE REMOVAL OF STORM, SURFACE AND/OR SUBSURFACE WATER WHICH MAY ACCUMULATE IN THE EXCAVATION AREAS SO THAT IT WILL BE SUITABLY DRY FOR WORK REQUIRED.
9. ALL UNDER-PAVING OPERATION SHALL BE PERMITTED UNLESS THE CONTRACTOR SECURES WRITTEN PERMISSION FROM THE GOVERNING AUTHORITIES.
10. WHERE ENCOUNTERED, MUCK SHALL BE COMPLETELY REMOVED FROM THE PAVED AREAS.
11. CONTRACTOR TO PROVIDE TEST REPORTS FROM AN INDEPENDENT LABORATORY FOR PROCTORS AND DENSITIES ON SUBGRADE, BASE AND PIPE BACKFILL.
12. (2) WITHIN 30 DAYS OF ACCEPTANCE OF THE COMPLETE PAVING AND DRAINAGE, WATER AND SEWER CONSTRUCTION RECORD INFORMATION TO THE ENGINEER.
13. THE CONTRACTOR SHALL FILL AND FINE GRADE ALL PLANTING AREAS, LEAVING THE FINISH GRADE SMOOTH AND READY TO RECEIVE SOD OR OTHER PLANTING MATERIAL. WHERE REQUIRED, THE FINISH GRADE SHALL BE 2 INCHES LOWER TO ALLOW FOR THICKNESS OF THE GRASS. SPECIAL ATTENTION SHALL BE GIVEN ALONG EDGE OF PAVEMENT AND SIDEWALKS SO AS NOT TO TRAP WATER.
14. ALL SWALE, RIGHT-OF-WAY AREAS AND YARD AREAS SHALL BE GRADED AND SEEDED OR SODDED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS. NO AREAS SHALL BE LEFT BARREN OR SUBJECT TO EROSION.
15. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ADHERE TO ALL OSHA RULES AND FLORIDA LAWS RELATED TO TRENCH SAFETY.
16. CONTRACTOR SHALL ENSURE NO SETTLEMENT OR DEBRIS LEAVES THE CONSTRUCTION SITE IN ACCORDANCE WITH NPDES REQUIREMENTS (SILK FENCE, HAYBALE'S OR SOUGHT APRONS ORNAMENTS, WASH ROCK EXIT, ETC., MAY BE REQUIRED TO MEET SAID REQUIREMENTS). CONTRACTOR SHALL ALSO RESOLVE ALL NECESSARY PERMIT IMPLEMENTATION AND CERTIFICATION OF NPDES AND POLLUTION PREVENTION RELATED MEASURES (IE FILING OF AN NOI POLLUTION PREVENTION PLAN MONITORING REPORTS, ETC.)
17. ALL DRAINAGE STRUCTURES SHALL HAVE A MINIMUM 12" SMP. STRUCTURES WITH A POLLUTION CONTROL BAFFLE SHALL HAVE A MINIMUM 24" SMP.

REVISIONS					
NO.	DATE	REMARKS			BY

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ONATHAN ROGER
REINSVOLD, P.E.
FLORIDA LICENSE
No. 74033

NOTES AND DETAILS
FOR
FOREST HILL BLVD. DRAINAGE IMPROVEMENTS
NEAR KEN ADAMS WAY



**THE VILLAGE OF
WELLINGTON**
Engineering Department
12300 Forest Hill Boulevard, Wellington, Florida 33414

<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> 1-11115 10Z </div>	START DATE	05/2017
	DRAWN	JRR
	PROJECT ENGINEER	JRR
	PROJECT MANAGER	JRR
	CHECKED	TJL

JOB NO

BID PLANS
05 / 21 / 2017

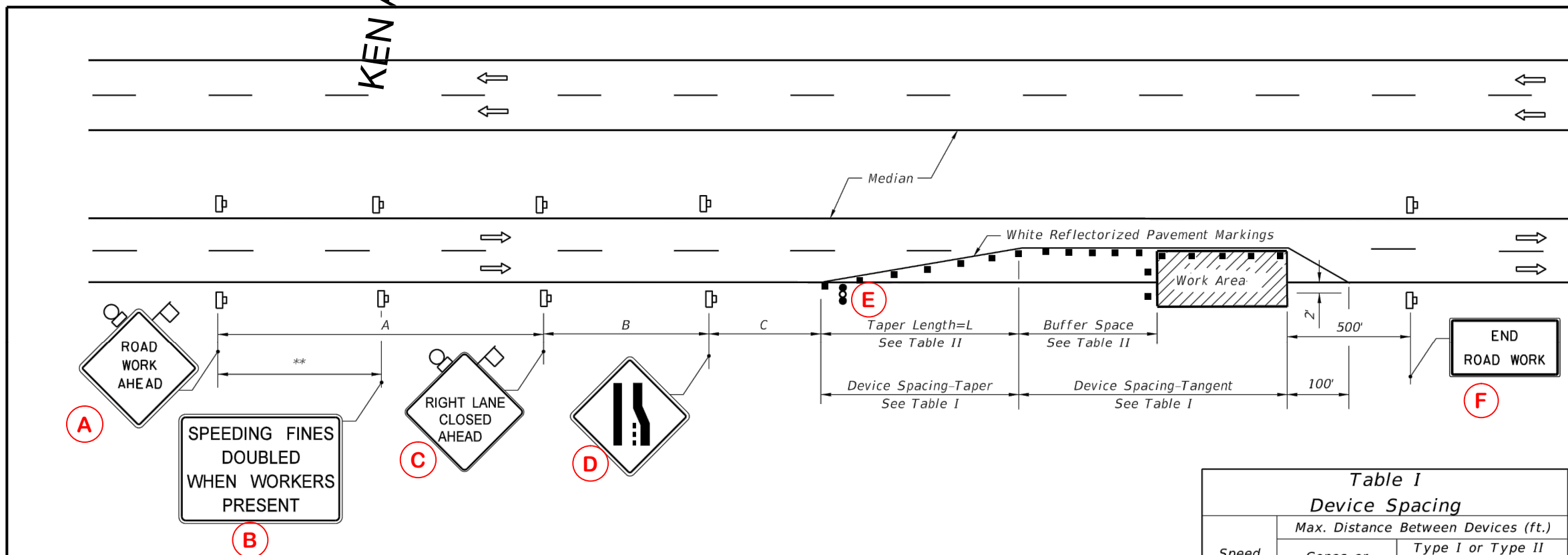
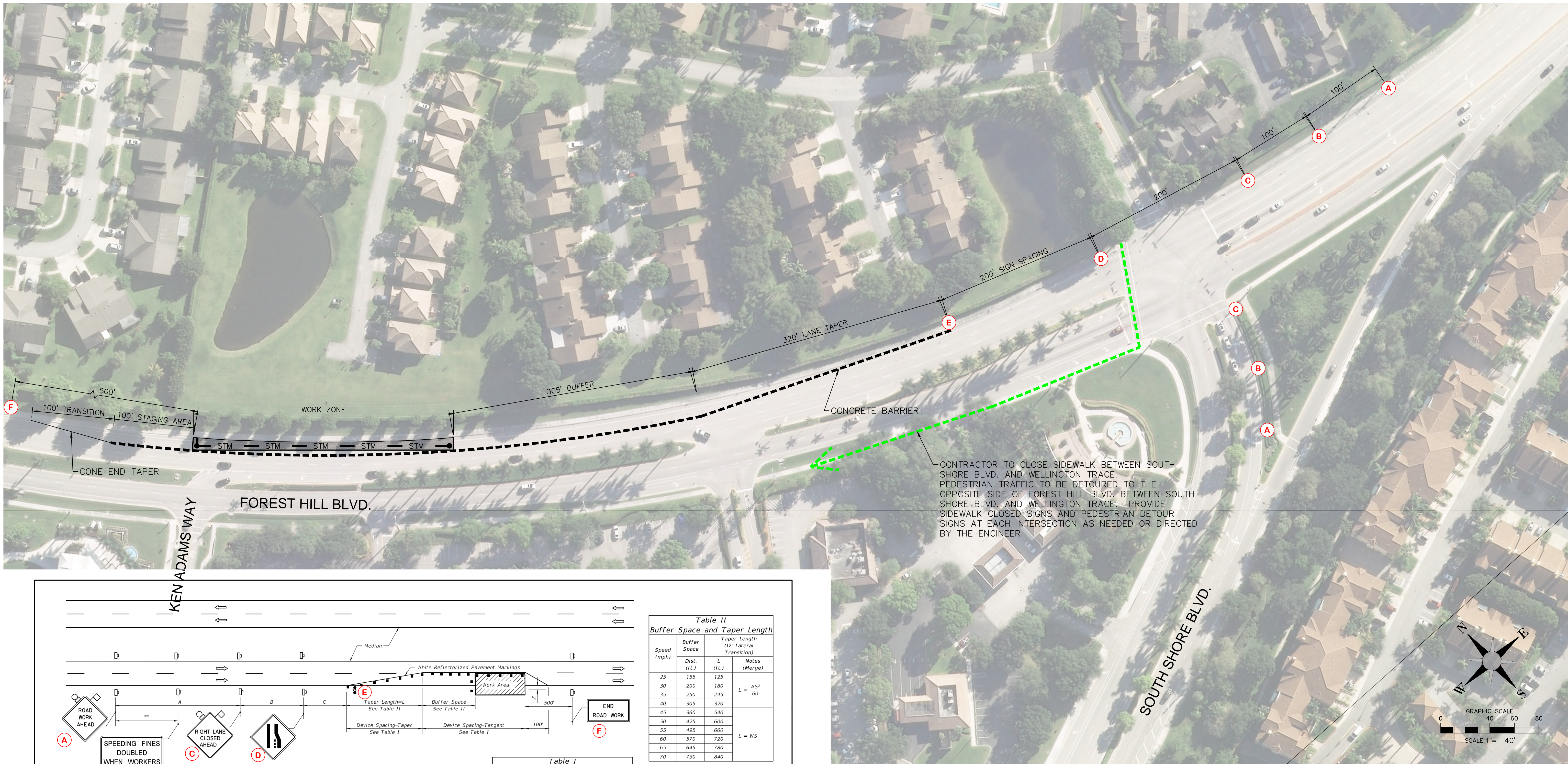


Table II Buffer Space and Taper Length				
Speed (mph)	Buffer Space		Taper Length (12' Lateral Transition)	
	Dist. (ft.)	L (ft.)	Notes (Merge)	
25	155	125	L = WS ² 60	
30	200	180		
35	250	245		
40	305	320	L = WS	
45	360	540		
50	425	600		
55	495	660		
60	570	720		
65	645	780		
70	730	840		

When Buffer Space cannot be attained due to geometric constraints, the greatest attainable length shall be used, but not less than 200 ft.

For lateral transitions other than 12', use Where:

L = Length of taper in feet
W = Width of lateral transition in feet
S = Posted speed limit (mph)

Table I Device Spacing				
Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

- DURATION NOTES**
- Temporary white edgeline may be omitted for work operations less than 3 consecutive calendar days.
 - For work operations up to approximately 15 minutes, signs, channelizing devices, arrow board, and buffer space may be omitted if all of the following conditions are met:
 - Speed limit is 45 mph or less.
 - No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
 - Volume and complexity of the roadway has been considered.
 - The closed lane is occupied by a class 5 or larger, medium duty truck(s) with a minimum gross weight vehicle rating (GVWR) of 16,001 lb with high-intensity, rotating, flashing, oscillating, or strobe lights mounted above the cab height and operating.
 - For work operations up to 60 minutes, arrow board and buffer space may be omitted if conditions a, b, and c in DURATION NOTE 2 are met, and vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF TRAVEL WAY.

DISTANCE BETWEEN SIGNS			
Speed	Spacing (ft.)		
	A	B	C
40 mph or less	200	200	200
45 mph	350	350	350
50 mph	500	500	500
55 mph or greater	2640	1640	1000

*The ROAD WORK 1 MILE sign may be used as an alternate to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED 1/2 MILE sign may be used as an alternate to the RIGHT LANE CLOSED AHEAD sign.

** 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

GENERAL NOTES

- Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
- On undivided highways the median signs as shown are to be omitted.
- When work is performed in the median lane on divided highways, the channelizing device plan is inverted and left lane closed and lane ends signs substituted for the right lane closed and lane end signs.
- The same applies to undivided highways with the following exceptions:
 - Work shall be confined within one median lane.
 - Additional barricades, cones, or drums shall be placed along the centerline abutting the work area and across the trailing end of the work area.
- When work on undivided highways occurs across the centerline so as to encroach on both median lanes, the inverted plan is applied to the approach of both roadways.
- Signs and traffic control devices are to be modified in accordance with INTERMITTENT WORK STOPPAGE details (Sheet 2 of 2) when no work is being performed and the highway is open to traffic.
- The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
- When paved shoulders having a width of 8 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the travel way. See Index No. 612 for shoulder taper formulas.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with applicable TCZ Indexes.
- This TCZ plan does not apply when work is being performed in the middle lane(s) of a six or more lane highway. See Index No. 614.
- For general TCZ requirements and additional information, refer to Index No. 600.

SYMBOLS

- Work Area
- Sign With 18" x 18" (Min.) Orange Flag And Type B Light
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Advance Warning Arrow Board

LAST REVISION	DESCRIPTION
07/01/09	



2015
DESIGN STANDARDS

MULTILANE, WORK WITHIN TRAVEL WAY
MEDIAN OR OUTSIDE LANE

INDEX
NO.
613

SHEET
NO.
1 of 2

MAINTENANCE OF TRAFFIC NOTES

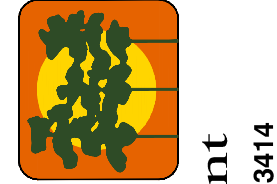
- MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH CURRENT F.D.O.T. 600 SERIES STANDARDS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. CONTRACTOR IS TO PROVIDE A MAINTENANCE OF TRAFFIC PLAN TO THE VILLAGE OF WELLINGTON FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK. SIDE STREET CLOSINGS ARE NOT ALLOWED WITHOUT THE PERMISSION OF THE VILLAGE OF WELLINGTON.
- LANE CLOSURES SHALL BE PERMITTED AT ALL TIMES IN THE WORK AREAS DEPICTED IN THESE PLANS. AN ADDITIONAL LANE CLOSINGS WILL BE PERMITTED ONLY
 - 9:00AM TO 3:30PM
 - 8:00PM TO 5:30AM
- SUCH CLOSURES WILL REQUIRE ADDITIONAL MAINTENANCE OF TRAFFIC WHICH ARE NOT DEPICTED ON THESE PLANS. NO ADDITIONAL LANE CLOSURES WILL BE PERMITTED WITHOUT AN APPROVED M.O.T. PLAN AND PRIOR NOTICE. ONE OR MORE TRAVEL LANES MUST REMAIN OPEN AT ALL TIMES. TWO LANES OF TRAFFIC FLOW MUST BE RESTORED DURING PEAK TIMES (MONDAY – FRIDAY 7:00AM TO 9:00AM AND 4:00PM TO 6:00PM).
- WORK ZONE TO BE GUARDED WITH CONCRETE "JERSEY" BARRIERS
- CONTRACTOR TO CLOSE SIDEWALK BETWEEN SOUTH SHORE BLVD. AND WELLINGTON TRACE. PEDESTRIAN TRAFFIC TO BE DETOURED TO THE OPPOSITE SIDE OF FOREST HILL BLVD. BETWEEN SOUTH SHORE BLVD. AND WELLINGTON TRACE. PROVIDE SIDEWALK CLOSED SIGNS AND PEDESTRIAN DETOUR SIGNS AT EACH INTERSECTION AS NEEDED OR DIRECTED BY THE ENGINEER.
- CONTRACTOR IS FULLY RESPONSIBLE FOR WORK ZONE SAFETY AND ADHERING TO ALL MAINTENANCE OF TRAFFIC REQUIREMENTS.
- THIS PLAN DEPICTS THE MINIMUM REQUIREMENTS OF M.O.T. BASED ON THE PROPOSED WORK ZONE. THE CONTRACTOR SHALL PROVIDE AN M.O.T. PLAN BASED ON THE MINIMUM REQUIREMENTS OF THIS PLAN PREPARED BY A CERTIFIED M.O.T. TECHNICIAN OR PROFESSIONAL ENGINEER.

REVISIONS		NO.	DATE	REMARKS	BY
DATE	DESCRIPTION				

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JONATHAN ROGER
REGISTERED PROFESSIONAL ENGINEER
FLORIDA LICENSE NO. 74033

MAINTENANCE OF TRAFFIC EXHIBIT
FOR
FOREST HILL BLVD. DRAINAGE IMPROVEMENTS
NEAR KEN ADAMS WAY



THE VILLAGE OF
WELLINGTON
Engineering Department
12300 Forest Hill Boulevard, Wellington, Florida 33414

DATE	START DATE	DATE	DATE	DATE	DATE
05/20/17	05/20/17	05/20/17	05/20/17	05/20/17	05/20/17
DRAWN	JRR	PROJECT	JRR	CHECKED	TJL
ENGINEER	JRR	MANAGER	JRR		
3					

JOB NO.

ELEVATIONS SHOWN IN NGVD

BID PLANS
05 / 21 / 2017