

PALM BEACH COUNTY TYPICALS FOR PAVEMENT MARKINGS, SIGNING & GEOMETRICS APRIL 2018

INDEX OF SHEETS

SHEET NO.

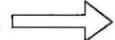
1. KEY SHEET
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4. OTHER LANE DETAILS W/PAVED SHOULDER
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10. SIGN PLACEMENT
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NOTE: FOR LANE LAYOUT AND RIGHT-OF-WAY REQUIREMENTS ON STANDARD SECTIONS AND EXPANDED INTERSECTIONS SEE ROADWAY PRODUCTION PALM BEACH COUNTY THOROUGHFARE ROADS TYPICAL SECTIONS

NO.T-P-18

GENERAL NOTES:

1. THERMOPLASTIC SHALL CONFORM TO THE REQUIREMENTS OF THE FLORIDA DEPT. OF TRANSPORTATION (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SEE SECTION 711. MINIMUM THICKNESS SHALL BE 90MILS (ALKYD ONLY), EXTRUDED ONLY, ON ALL COUNTY MAINTAINED ROADWAYS.
2. EXISTING ROAD SURFACE SHALL BE OVERLAID THROUGHOUT THE LIMITS OF CONSTRUCTION IF THE EXISTING PAVEMENT MARKINGS ARE INCONSISTENT WITH THOSE PROPOSED UNLESS OTHERWISE APPROVED BY PALM BEACH COUNTY TRAFFIC ENGINEER.
3. THERMOPLASTIC SHALL BE USED UNLESS OTHERWISE APPROVED BY PALM BEACH COUNTY TRAFFIC ENGINEER.
4. ALL PAVEMENT MARKINGS SHALL BE INSTALLED OR REPLACED ON EACH APPROACH WITH THE SAME MATERIAL USED AT THE TRANSITION, CONSTRUCTED FOR A DISTANCE (X), (SEE CHART 1, SHEET 3) TO CONFORM WITH EXISTING ROADWAY DESIGN AS APPROVED BY PALM BEACH COUNTY TRAFFIC ENGINEER.
5. SPEED EQUALS POSTED SPEED IN M.P.H. OR DESIGN SPEED, WHICHEVER IS GREATER.
6. DIMENSIONS AND GEOMETRIC LAYOUTS INDICATED IN THIS DOCUMENT REPRESENT MINIMUM REQUIREMENTS AND DO NOT SUPERSEDE THE NEED FOR FURTHER ENGINEERING DESIGN TO MEET THE NEEDS OF SPECIFIC PROJECTS.
7. PAVEMENT MARKING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE M.U.T.C.D. & F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS (LATEST EDITION), HOWEVER, WHERE CONFLICTS EXIST, THIS TYPICAL SHALL TAKE PRECEDENT OVER F.D.O.T. STANDARD SPECIFICATIONS.
8. ALL EXISTING ABOVE GROUND UTILITIES AND ANY OBJECTS WITHIN THE RIGHT-OF-WAY OR RECOVERY AREA, WHICHEVER IS GREATER (WITHIN THE LIMITS OF CONSTRUCTION), SHALL BE SHOWN ON THE PAVEMENT MARKING PLANS.
9. DESIGN SPEED SHALL BE SHOWN ON PLANS.
10. TRANSITION FROM PAVED SHOULDER TO EXISTING PAVEMENT EDGE SHALL BE 30:1 MIN.
11. IF EXISTING PAVEMENT MARKING MATERIAL IS NOT COMPATIBLE WITH ALKYD THERMOPLASTIC, IT SHALL BE REMOVED PRIOR TO COMMENCEMENT OF WORK.
12. DISTANCE BETWEEN STOP BAR AND CROSSWALK SHALL BE A MINIMUM OF 4 FEET.
13. ANY PAVEMENT WIDENING, TURNOUTS AND STREET IMPROVEMENTS WITHIN DISTANCE (X) (SEE CHART 1, SHEET 3), SHALL BE SHOWN ON PLANS.
14. 2' PAVED SHOULDERS SHALL BE USED ON NON-PAN COLLECTOR AND NON-THOROUGHFARE ROADWAYS.
4' PAVED SHOULDERS SHALL BE USED ON THOROUGHFARE ROADWAYS UNLESS OTHERWISE SHOWN IN ROADWAY PRODUCTION TYPICAL SECTIONS.
15. THERMOPLASTIC SHALL NOT BE INSTALLED ON ROADWAY UNTIL FOURTEEN CALENDAR DAYS AFTER THE FINAL LIFT OF ASPHALT HAS BEEN COMPLETED, UNLESS OTHERWISE SPECIFIED BY PALM BEACH COUNTY TRAFFIC ENGINEER.
16. ALL PAVEMENT MARKINGS SHALL HAVE REFLECTIVITY OF NOT LESS THAN 300 MINICANDELAS AT INSTALLATION.
17. ALL LONGITUDINAL PAVEMENT MARKINGS SHALL BE 6" WIDE, UNLESS OTHERWISE NOTED, PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS OR PALM BEACH COUNTY DESIGN STANDARDS .
18. IF THE PROPOSED TRANSITION FALLS WITHIN DISTANCE (X) (SEE CHART 1, PAGE 2), OF AN EXISTING TURN LANE TRANSITION, THEN THE AREA BETWEEN TRANSITIONS SHALL BE CONSTRUCTED AS A CONTINUOUS WIDENED SECTION, FOR GEOMETRIC CONTINUITY.
19. VARIATIONS FROM THIS STANDARD SHALL BE APPROVED BY PALM BEACH COUNTY TRAFFIC ENGINEER.
20. DRAWINGS SHALL BE SUBMITTED EITHER IN 1"=20', 1"=30' OR 1"=40' SCALE.
21. ALL PAVEMENT MARKINGS SHALL BE SHOWN TO SCALE ON THE PLANS.
22. ALL REFLECTIVE PAVEMENT MARKERS SHALL BE APPROVED BY PALM BEACH COUNTY TRAFFIC ENGINEER BEFORE INSTALLATION.
23. ALL MARKERS SHALL BE CLASS "B" AS PER F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE SECTION 706.
24.  SHOWS TRAFFIC FLOW. NOT A PAVEMENT MARKING.
25. REFLECTORS SHALL BE PLACED AT EACH CROSS HATCH. SPACING VARIES WITH SPEED AS SHOWN ON THIS TYPICAL. (SHEET 5)
26. REFLECTORS SHALL BE EQUALLY SPACED BETWEEN POINTS A AND B BUT NO MORE THAN 12" APART. (SHEET 5)
27. EPOXY OR BITUMINOUS SHALL BE USED WHEN INSTALLING R.P.M.'S ON CONCRETE OR ASPHALT PAVEMENT. THERMOPLASTIC MAY BE USED TO SET R.P.M.'S ON ASPHALT PAVEMENT ONLY.
28. R.P.M 'S SHALL BE PLACED 1" (ONE INCH) TO THE LEFT OR RIGHT OF LINE.
29. 'O' OR 'F.D.P.' DENOTES FLEXIBLE DELINEATOR POST.
30. ALL PAVEMENT MARKING MATERIAL SHALL BE ON THE APPROVED FLORIDA DEPARTMENT OF TRANSPORTATION "QUALITY PRODUCTS LIST" (QPL) AND APPROVED BY P.B.C. TRAFFIC ENGINEER, BEFORE INSTALLATION ON COUNTY ROADWAYS.
31. ALL REMOVAL OF PAVEMENT MESSAGES AND ARROWS SHALL BE IN BLOCK STYLE SUCH THAT THE MESSAGE IS NO LONGER DISCERNIBLE. METHOD OF REMOVAL SHALL BE APPROVED BY PALM BEACH COUNTY TRAFFIC ENGINEER.

32. WHEN TRAFFIC EXCEEDS 75 VEHICLES PER HOUR FOR RIGHT TURNS OR 30 VEHICLES PER HOUR FOR LEFT TURNS, THE TURN LANES SHALL BE CONSTRUCTED AS PER SHEET 3 OF 12.
33. FOR SIGN SIZES REFER TO TABLES 2B-1 AND 2C-2 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
34. PAVER STONE SHALL CONFORM WITH PALM BEACH COUNTY LAND DEVELOPMENT DESIGN STANDARDS WITH THE FOLLOWING EXCEPTIONS:

UNDER II MATERIAL 2.1 # A.3. THE COLORING SHALL CONFORM WITH F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION SECTION 971-1.6)

AS AN OPTION:
STAMARK COLD PLASTIC SERIES 390 WAFFLE TAPE OR APPROVED EQUAL MAY BE USED ON PAVER STONE.
EPOXY PAINT MAY BE USED AS ALTERNATE.

GLASS SPHERES SHALL MEET THE REQUIREMENTS OF SECTIONS 971-1 AND 971-2 WITH THE RETROREFLECTIVITY TO BE NOT LESS THAN 300 MILLICANDELAS.

WHEN HEADER CURB IS USED TO OUTLINE A CROSSWALK THE CURB SHALL BE OF WHITE CONCRETE WITH GLASS SPHERES OR WHITE WAFFLE TAPE.

THE PAVER STONE SHALL BE PRE-APPROVED BY PALM BEACH COUNTY TRAFFIC ENGINEER PRIOR TO THE INSTALLATION.

NO PAVER STONE SHALL BE CONSTRUCTED WITHIN PALM BEACH COUNTY RIGHT OF WAY UNLESS PERMITTED BY THE COUNTY ENGINEER AND THE OWNERS ENTER INTO A REMOVAL AGREEMENT WITH THE COUNTY (LAND DEVELOPMENT DIVISION). PAVER STONE WILL NOT BE PERMITTED FOR SIDEWALK CONSTRUCTION.

FOR PAVER STONE INSTALLATION ON COUNTY THOROUGHFARE ROAD RIGHT OF WAY REFER TO PPM ED-0-015 (LAND DEVELOPMENT DIVISION).

FOR PRIVATE SUBDIVISIONS THAT ARE EXPECTED TO HAVE A TRAFFIC SIGNAL, NO PAVER STONE SHALL BE CONSTRUCTED 60' FROM RIGHT OF WAY ON OUTGOING LANE(S). INCOMING ROADWAY PAVER STONE MAY START AT THE RIGHT OF WAY LINE. BEFORE INSTALLATION OF THE TRAFFIC SIGNAL THE HOME OWNER ASSOCIATION WILL BE REQUIRED TO REMOVE THE PAVER STONES.

35. FOR BICYCLE MARKINGS SEE FLORIDA GREENBOOK CHAPTER 9 AND FDOT INDEX 17347.

36. ALL SIGNS SHALL BE DIAMOND GRADE REFLECTIVE SHEETING.

37. TRANSITION RATES AT THE INTERSECTION APPROACHES SHALL BE:
30:1 FOR ≤ 40 MPH
45:1 FOR 45 MPH

STRIPING KEY

- | | |
|---------------------------------|------------------------------------|
| A = 6" SOLID WHITE | K = 6" DOUBLE YELLOW |
| B = 8" SOLID WHITE | L = 6" SKIP YELLOW TYP (10'-30') |
| C = 12" SOLID WHITE | M = 6" SKIP YELLOW TYP (6'-10') |
| D = 18" SOLID WHITE | N = 6" SKIP YELLOW TYP (2'-4') |
| E = 24" SOLID WHITE | P = RPM BI-DIRECTIONAL AMBER/AMBER |
| F = 6" SKIP WHITE TYP (10'-30') | R = FDP WHITE |
| G = 6" SKIP WHITE TYP (6'-10') | S = FDP YELLOW |
| H = 6" SKIP WHITE TYP (2'-4') | T = RPM BI-DIRECTIONAL WHITE/RED |
| I = 6" SOLID YELLOW | U = RPM BI-DIRECTIONAL RED/YELLOW |
| J = 18" SOLID YELLOW | |



PALM BEACH COUNTY, FLORIDA
TRAFFIC DIVISION
TYPICAL

GENERAL NOTES

4/24/18
BOGDAN T. PIORKOWSKI SENIOR PROFESSIONAL ENGINEER
TANYA MCCONNELL DEPUTY COUNTY ENGINEER
5/3/18

NAME	DATE	SCALE	CONTRACT NO.
EL	08/30/16	N.T.S	

DRAWN BY	TRACED BY	CHECKED BY	DRAWING
			T-P-18

NO.	DATE	REVISIONS	BY	APP.	SHEET	2	OF	12	SHEETS
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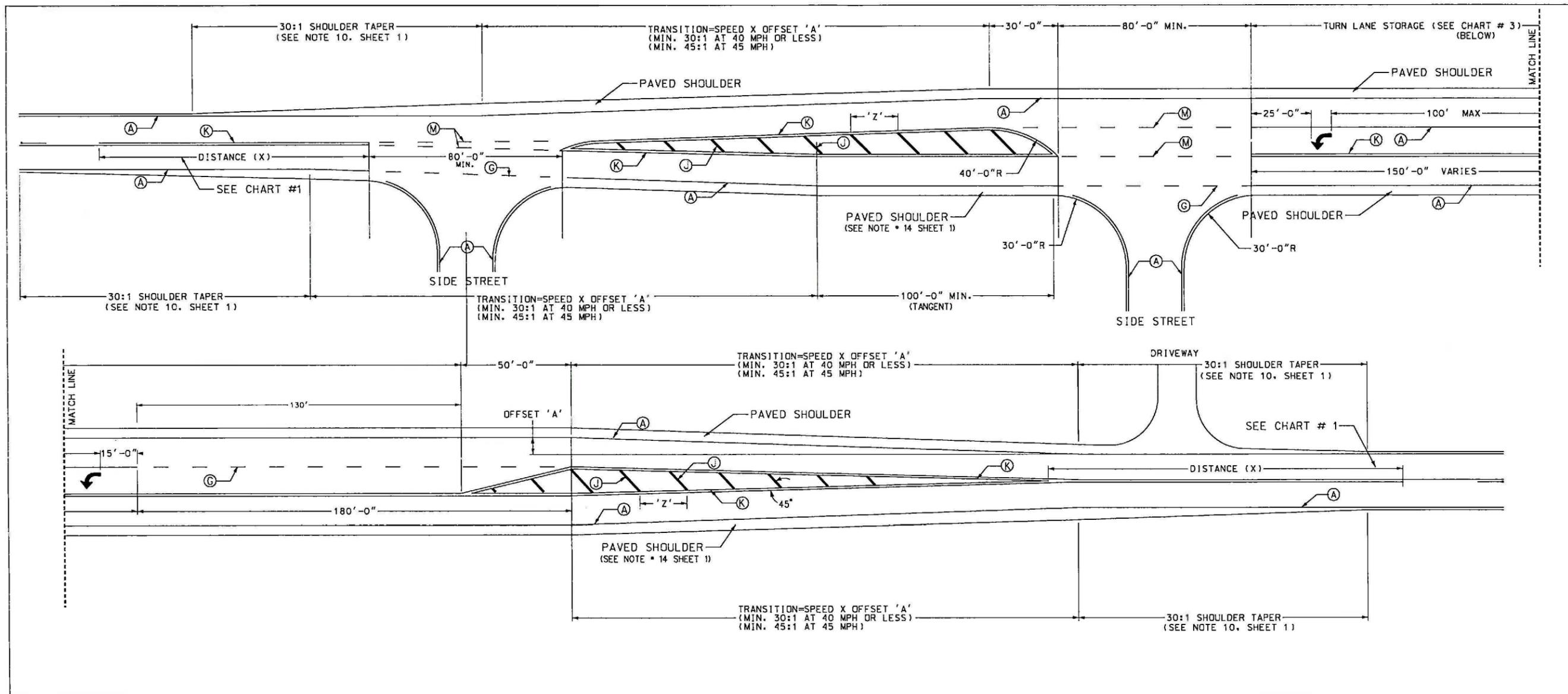


CHART #1
LENGTHS OF APPROACH STRIPING (FT.)

ALL PAVEMENT MARKING & R.P.M.'S SHALL BE REDONE OR BROUGHT UP TO PRESENT STANDARDS.

SPEED	DISTANCE (X) (FT.)
30	500
35	550
40	600
45	700
50	800

CHART #3
SINGLE TURN LANE STORAGE (MIN. - FT.)

MPH	TURNING VEHICLES PER HOUR									
	30-60	61-90	91-120	121-150	151-180	181-210	211-240	241-270	271-300	>301
55	365	390	415	440	465	490	515	540	565	590
50	300	325	350	375	400	425	450	475	500	525
45	280	280	295	320	345	370	395	420	445	470
40	280	280	280	280	285	310	335	360	385	410
35	280	280	280	280	280	290	315	340	365	390

NOTES:

1. STORAGES SHOWN ARE MINIMUMS IN FEET, EXCLUDING 50' SHADOW.
2. APPLIES TO RIGHT OR LEFT TURN LANES, SIGNALIZED OR UNSIGNALIZED.
3. ENTRY SPEED ASSUMED TO BE 5 MPH LESS THAN SPEED LIMIT; STORAGE LENGTHS CALCULATED UTILIZING FDOT INDEX 301.
4. ASSUMES UNIFORM ARRIVALS WITH TOTAL QUEUE DISPERSAL EVERY 2 MINUTES.
5. 6' - 10' WHITE SKIP LINE LENGTH = 180'.
6. USE OF SINGLE LEFT TURN LANE FOR VOLUMES IN EXCESS OF 250 REQUIRES APPROVAL FROM THE DIRECTOR OF TRAFFIC ENGINEERING.

STRIPING KEY

A = 6" SOLID WHITE
 B = 8" SOLID WHITE
 C = 12" SOLID WHITE
 D = 18" SOLID WHITE
 E = 24" SOLID WHITE
 F = 6" SKIP WHITE TYP (10'-30')
 G = 6" SKIP WHITE TYP (6'-10')
 H = 6" SKIP WHITE TYP (2'-4')
 I = 6" SOLID YELLOW
 J = 18" SOLID YELLOW
 K = 6" DOUBLE YELLOW
 L = 6" SKIP YELLOW TYP (10'-30')
 M = 6" SKIP YELLOW TYP (6'-10')
 N = 6" SKIP YELLOW TYP (2'-4')
 P = RPM BI-DIRECTIONAL AMBER/AMBER
 R = FDP WHITE
 S = FDP YELLOW
 T = RPM BI-DIRECTIONAL WHITE/RED
 U = RPM BI-DIRECTIONAL RED/YELLOW



CHART #2
DISTANCE BETWEEN CROSS HATCHED LINES

POSTED SPEED LIMIT (M.P.H.)	DISTANCE (Z) (FT.)
≤ 30	10
≤ 40	20
45	30
≥ 50	40

CHART #4
DUAL TURN LANE STORAGE (MIN. - FT.)

MPH	TURNING VEHICLES PER HOUR							
	< 240	241-300	301-360	361-420	421-480	481-540	>541	
55	490	515	540	565	590	615	665	
50	450	450	475	500	525	550	600	
45	450	450	450	450	470	495	545	
40	450	450	450	450	450	450	485	
35	450	450	450	450	450	450	465	

NOTES:

1. STORAGES SHOWN ARE MINIMUMS IN FEET, EXCLUDING 100' SHADOW.
2. APPLIES TO RIGHT OR LEFT TURN LANES.
3. ENTRY SPEED ASSUMED TO BE 5 MPH LESS THAN SPEED LIMIT; STORAGE LENGTHS CALCULATED UTILIZING FDOT INDEX 301.
4. ASSUMES UNIFORM ARRIVALS WITH TOTAL QUEUE DISPERSAL EVERY 2 MINUTES, AT 95% LEVEL OF CONFIDENCE.
5. ASSUMES 50% - 50% LANE DISTRIBUTION.
6. 6' - 10' WHITE SKIP LINE LENGTH = 250'.

NO.	DATE	REVISIONS	BY	APP.

PALM BEACH COUNTY, FLORIDA
TRAFFIC DIVISION
 TYPICAL

TURN LANE GEOMETRICS
 AND
 APPROACH STRIPING

BOGDAN T. MORROWSKI
 SENIOR PROFESSIONAL ENGINEER

4/30/18

DEPUTY COUNTY ENGINEER

SCALE: N.T.S.
 CONTRACT NO. _____

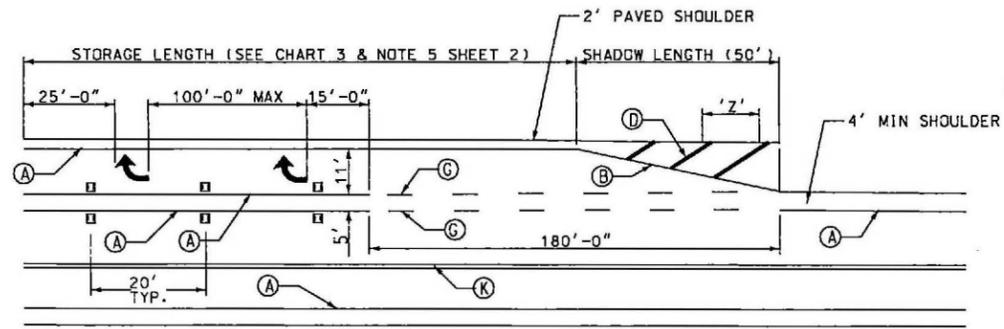
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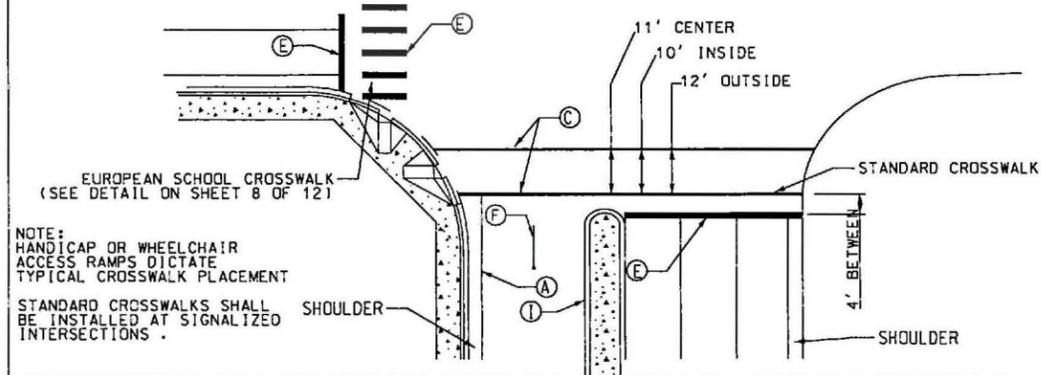
SHEET 3 OF 12 SHEETS

#1 RIGHT TURN LANE



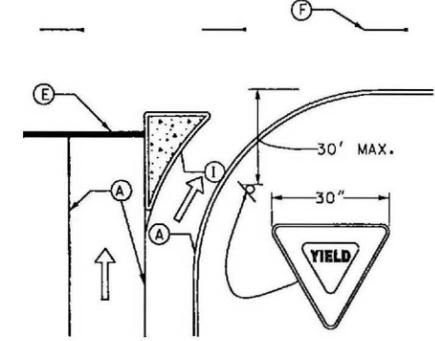
FOR DISTANCE 'Z' SEE CHART 2 ON SHEET 2.

#2 EUROPEAN CROSSWALK & STOP BAR PLACEMENT

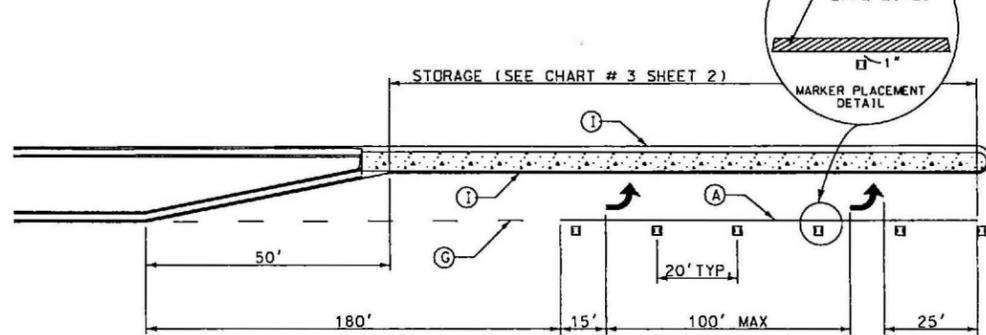


NOTE: HANDICAP OR WHEELCHAIR ACCESS RAMPS DICTATE TYPICAL CROSSWALK PLACEMENT. STANDARD CROSSWALKS SHALL BE INSTALLED AT SIGNALIZED INTERSECTIONS.

#3 YIELD SIGN PLACEMENT

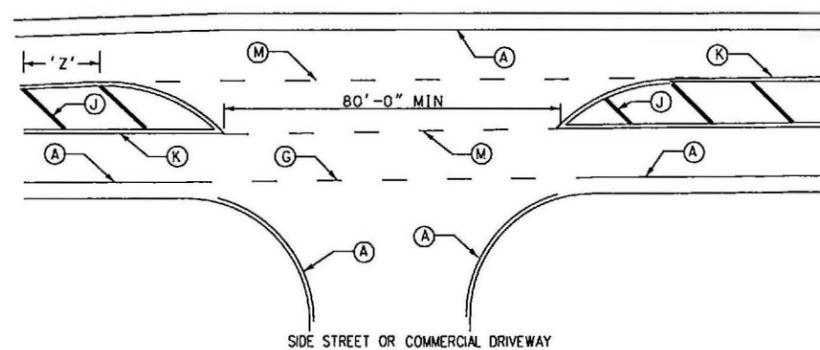


#4 LEFT TURN LANE

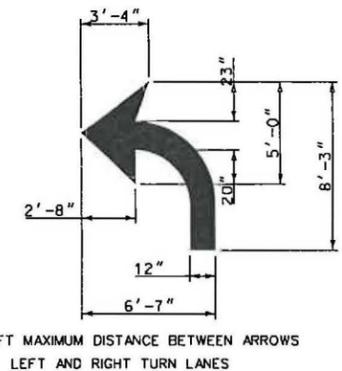


Shadow length's shall be 100 feet at all dual left applications, with 250' of 6'-10" skips.

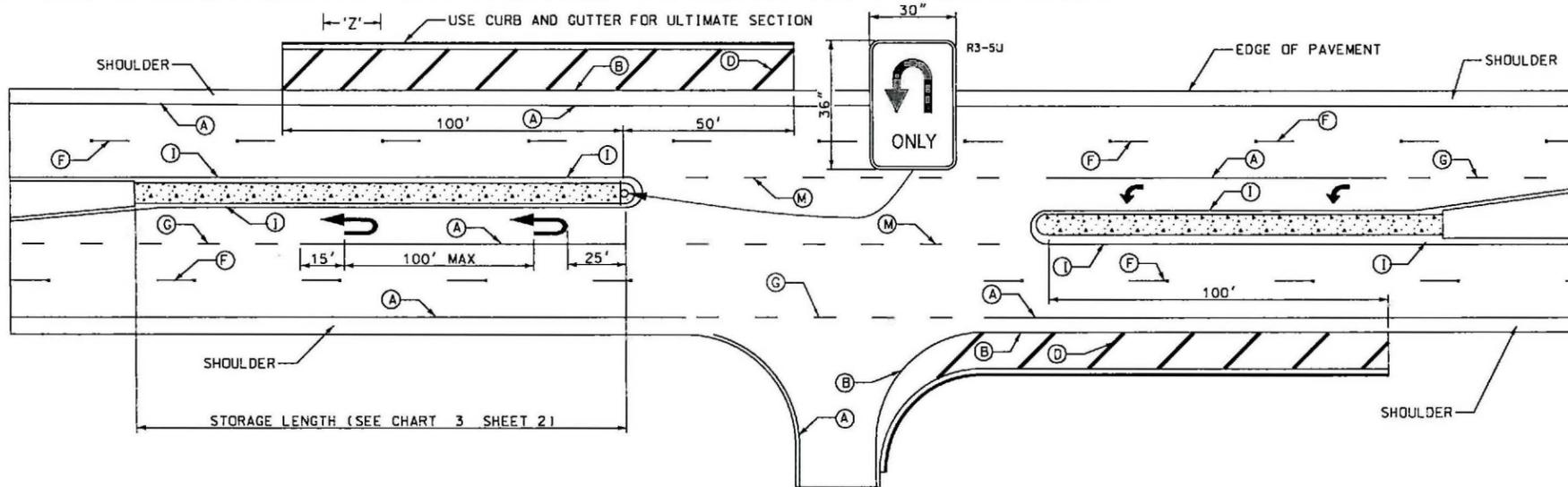
#5 TAPER ACROSS SIDE STREET OR MAJOR DRIVEWAY



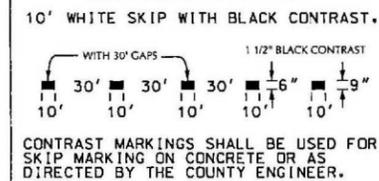
#6 TYPICAL TURN LANE ARROW



#7 "U-TURN" TYPICAL DETAIL. FOR U-TURN DIMENSIONS ON ULTIMATE 4 LANE DIVIDED ROADWAY



#8 CONTRAST MARKINGS

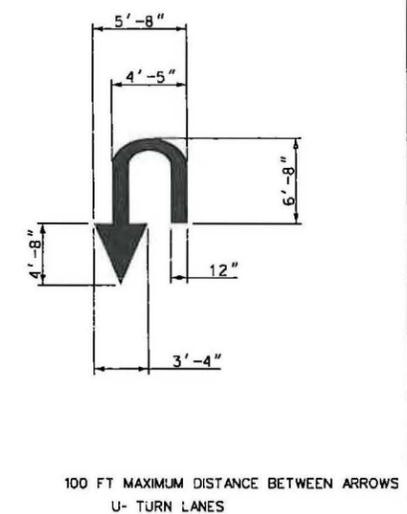


CONTRAST MARKINGS SHALL BE USED FOR SKIP MARKING ON CONCRETE OR AS DIRECTED BY THE COUNTY ENGINEER.

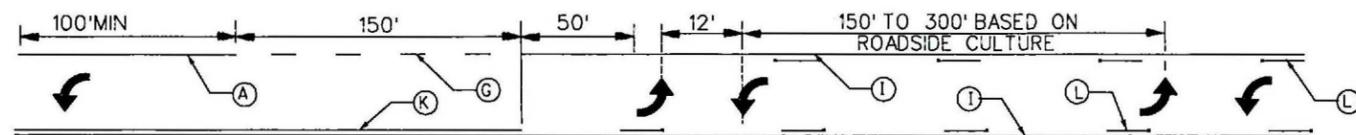
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- R = FDP WHITE
- S = FDP YELLOW
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- U = RPM BI-DIRECTIONAL RED/YELLOW

#9 TYPICAL U-TURN ARROW



#10 TWO WAY LEFT TURN LANE (SCHEME ONE)



PALM BEACH COUNTY, FLORIDA
TRAFFIC DIVISION
TYPICAL

OTHER LANE DETAILS

WITH PAVED SHOULDER

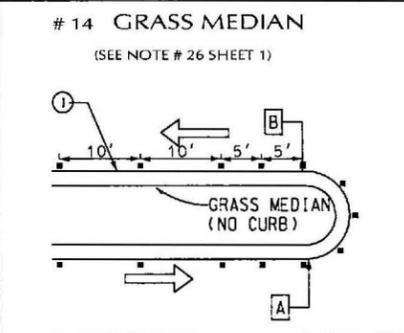
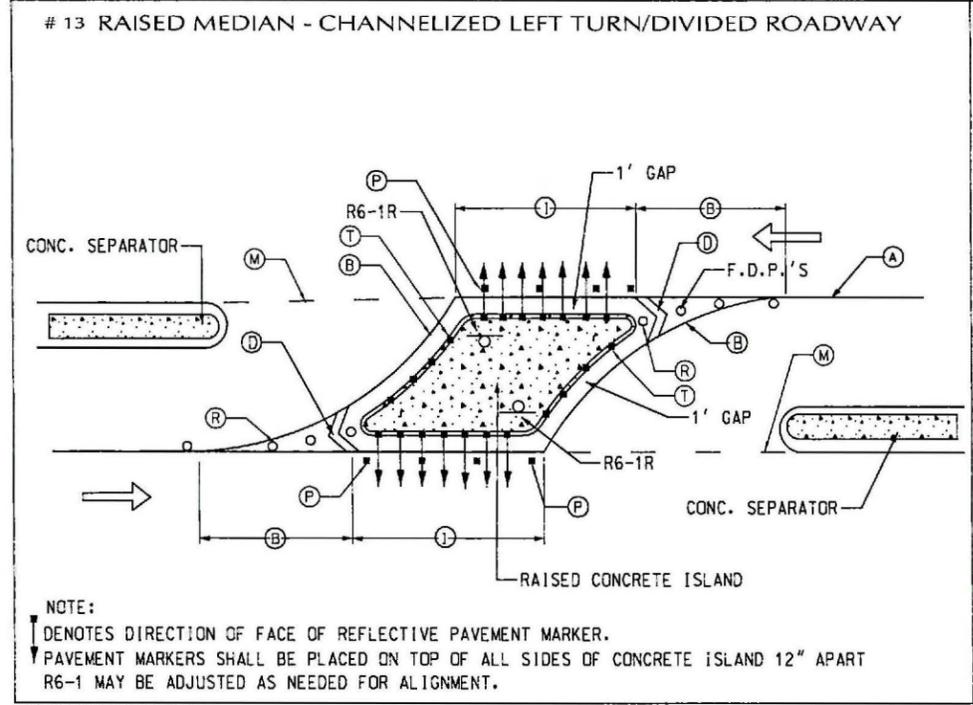
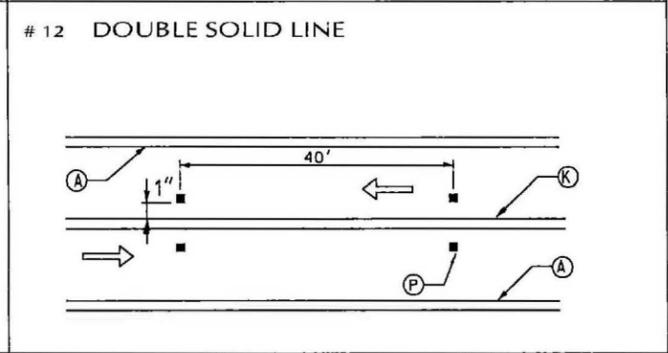
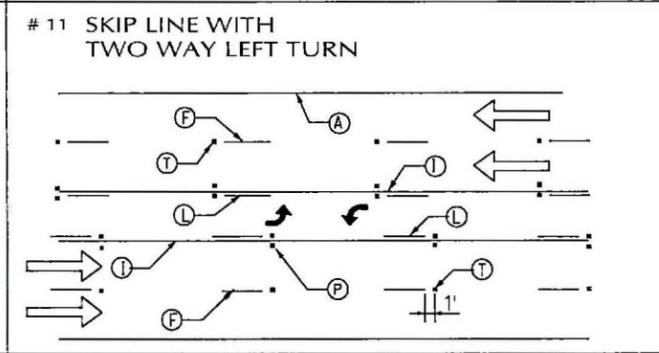
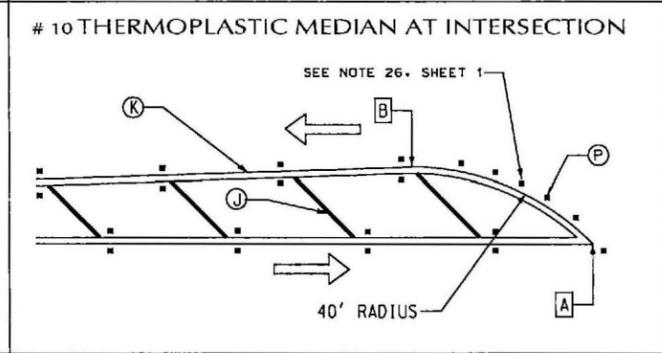
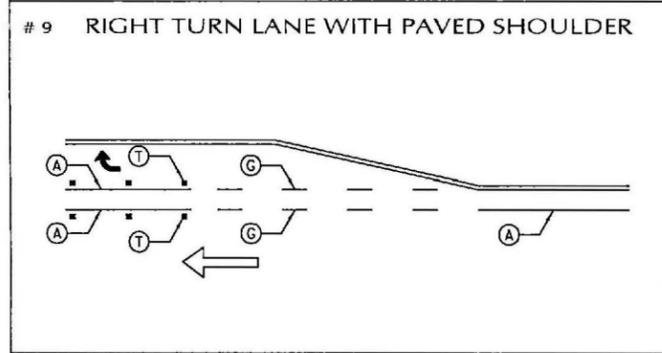
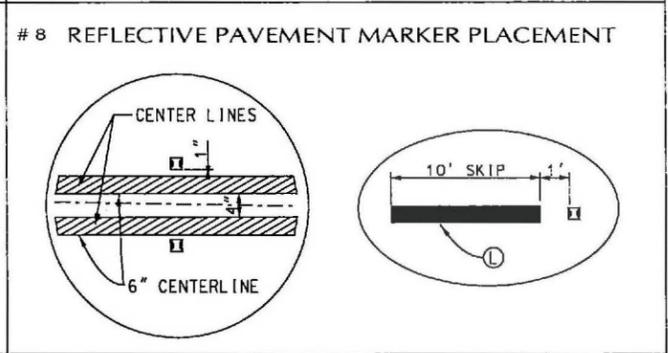
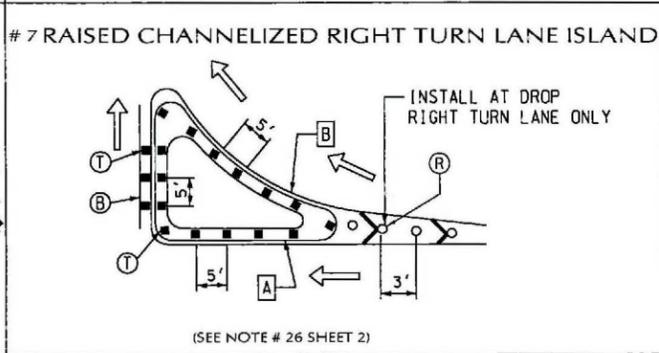
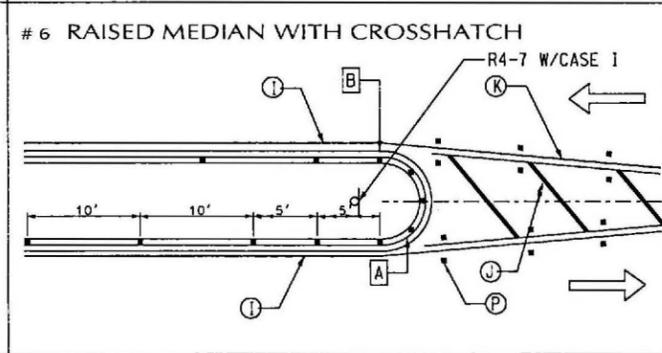
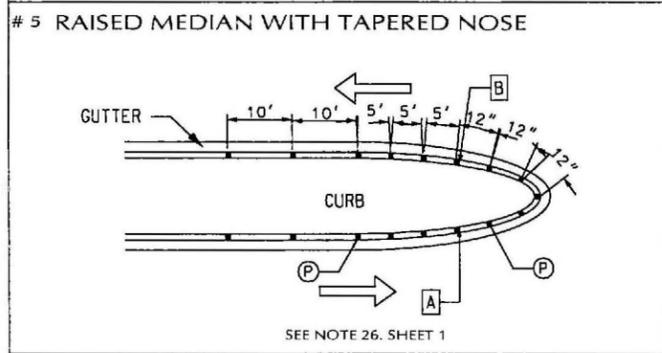
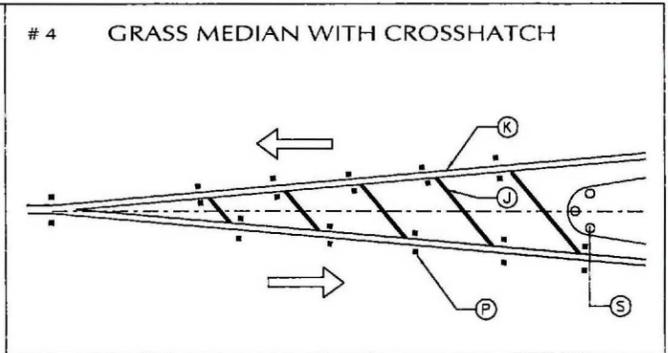
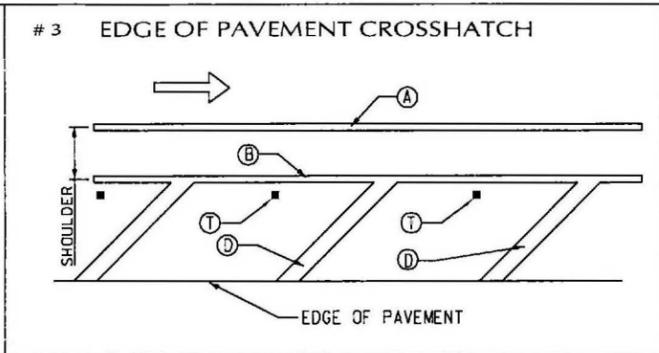
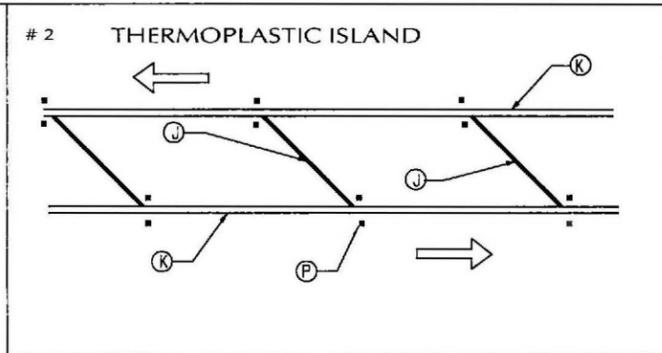
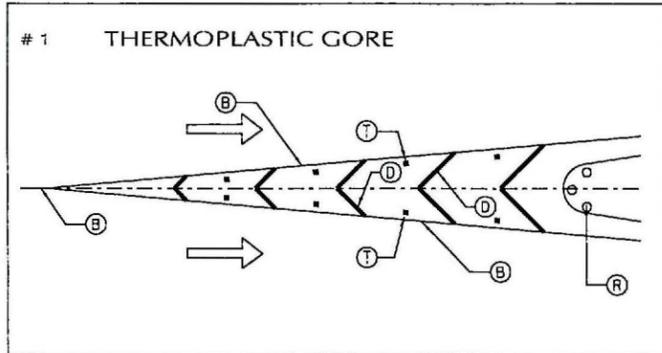
BOGDAN I. PIORKOWSKI
TANYA MCCONNELL

SENIOR PROFESSIONAL ENGINEER
DEPUTY COUNTY ENGINEER

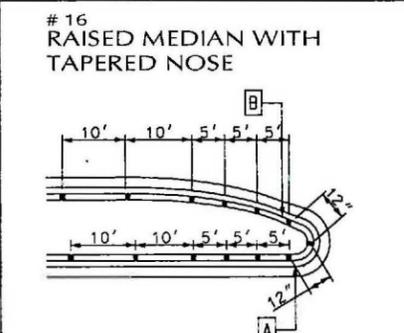
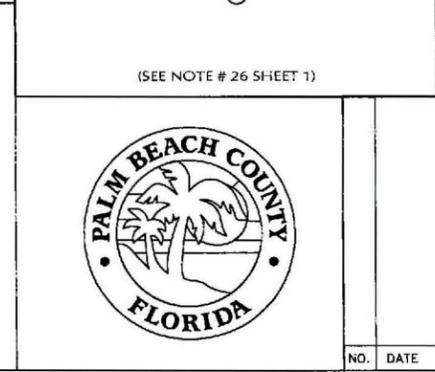
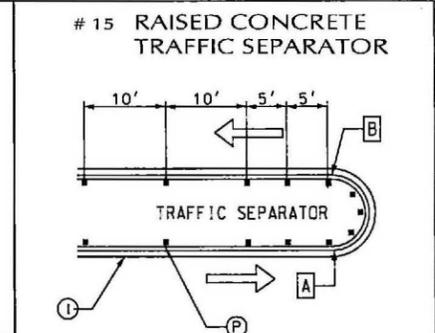
NAME DATE SCALE CONTRACT NO.
CGT 4-16-2010 N.T.S.

DRAWN BY TRACED BY CHECKED BY
T-P-18

NO. DATE REVISIONS BY APP. SHEET 4 OF 12 SHEETS



- STRIPING KEY
- A = 6" SOLID WHITE
 - B = 8" SOLID WHITE
 - C = 12" SOLID WHITE
 - D = 18" SOLID WHITE
 - E = 24" SOLID WHITE
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 - P = RPM BI-DIRECTIONAL AMBER/AMBER
 - R = FDP WHITE
 - S = FDP YELLOW
 - T = RPM BI-DIRECTIONAL WHITE/RED
 - U = RPM BI-DIRECTIONAL RED/YELLOW



17
LEFT FOR FUTURE USE

NOTE:
↑ DENOTES DIRECTION OF FACE OF REFLECTIVE PAVEMENT MARKER.
↓ PAVEMENT MARKERS SHALL BE PLACED ON TOP OF ALL SIDES OF CONCRETE ISLAND 12" APART
R6-1 MAY BE ADJUSTED AS NEEDED FOR ALIGNMENT.

PALM BEACH COUNTY, FLORIDA
TRAFFIC DIVISION
TYPICAL

REFLECTIVE PAVEMENT MARKER
PLACEMENT DETAILS

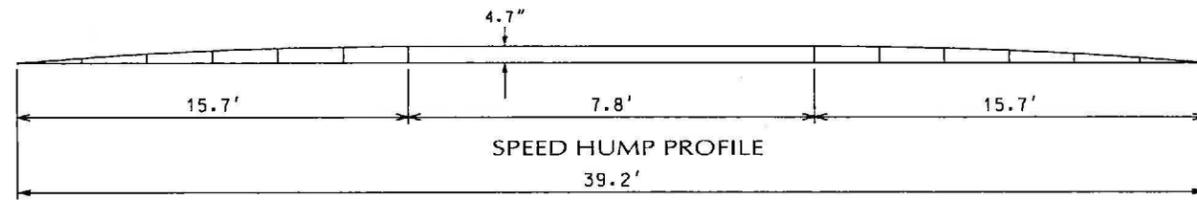
9130/18

BOGDAN I. PIORKOWSKI SENIOR PROFESSIONAL ENGINEER
TANYA MCCONNELL DEPUTY COUNTY ENGINEER

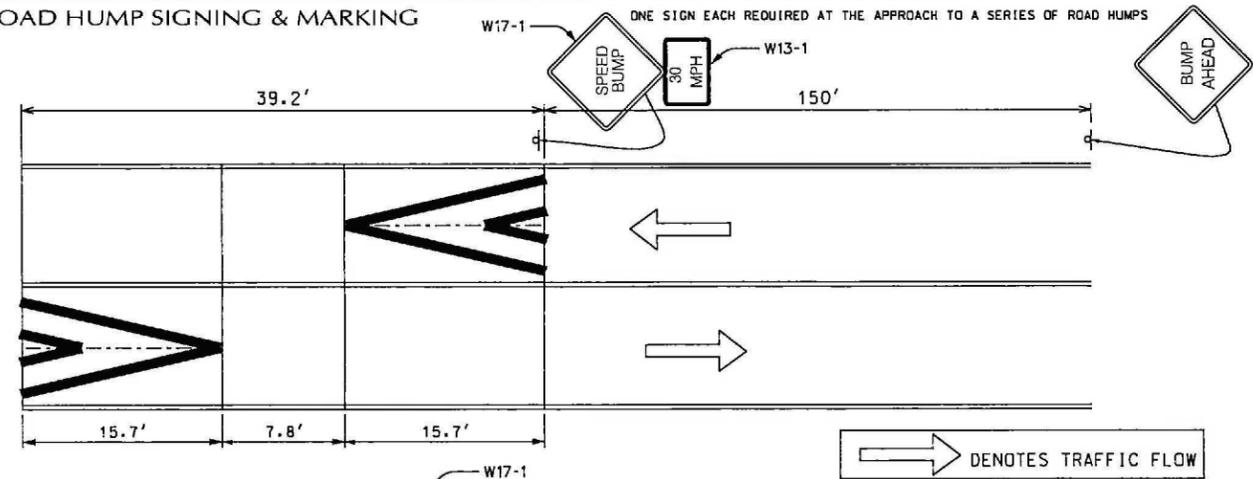
DRAWN BY	EL	DATE	08/30/16	SCALE	N.T.S.	CONTRACT NO.
TRACED BY						
CHECKED BY						

DRAWING T-P-18
SHEET 5 OF 12 SHEETS

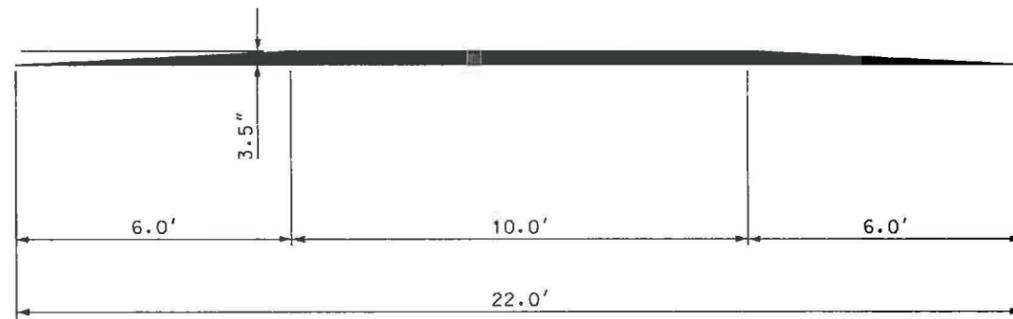
SPEED HUMP (DUTCH DESIGN)



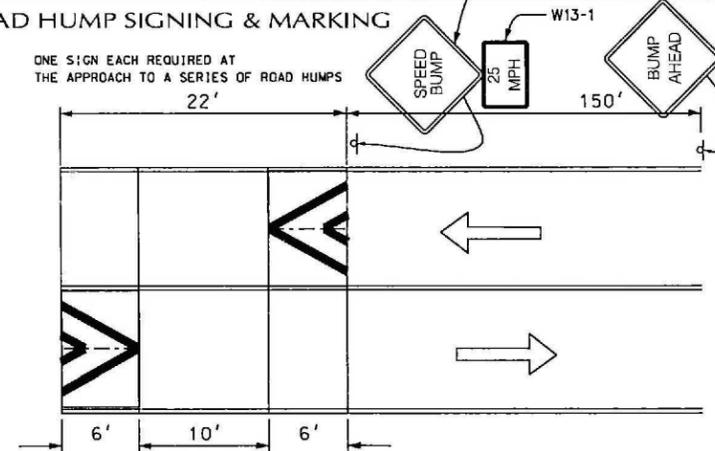
ROAD HUMP SIGNING & MARKING



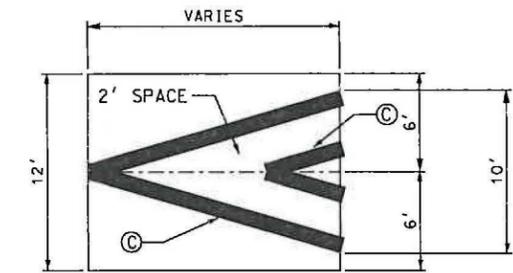
SEMINOLE SPEED HUMP



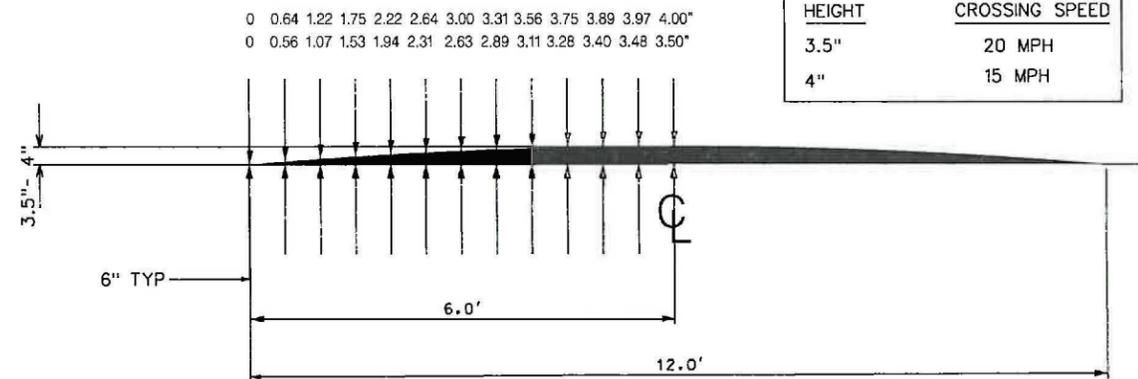
ROAD HUMP SIGNING & MARKING



ROAD HUMP PAVEMENT MARKINGS



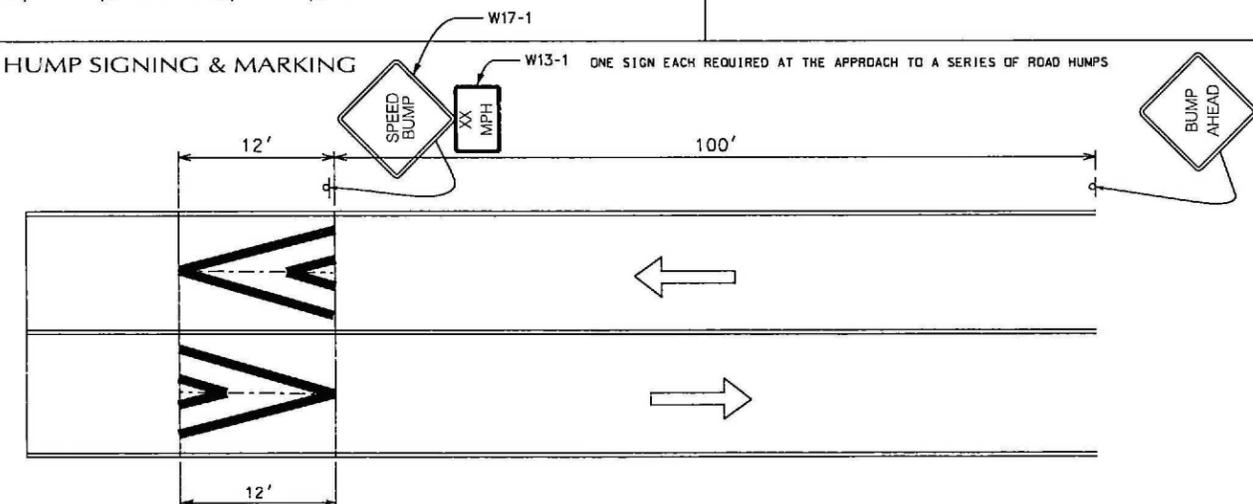
I.T.E. SPEED HUMP



LEGEND:

HEIGHT	CROSSING SPEED
3.5"	20 MPH
4"	15 MPH

ROAD HUMP SIGNING & MARKING



COORDINATION WITH STREET GEOMETRY
 A THOROUGH ON-SITE ANALYSIS OF ROADWAY GEOMETRICS SHALL BE PERFORMED TO ENSURE THAT SPEED HUMPS WILL NOT BE INTRODUCED AT A CRITICAL POINT IN THE ROADWAY SYSTEM. E.G. A SEVERE COMBINATION OF HORIZONTAL, VERTICAL CURVATURE AND / OR STREET GRADIENT.

COORDINATION WITH TRAFFIC OPERATIONS
 SPEED HUMPS SHALL NOT BE INSTALLED WITHIN 400' FT. OF A TRAFFIC SIGNAL OR STOP SIGN OR WITHIN AN INTERSECTION OR DRIVEWAY. MIN. DISTANCE BETWEEN ROAD HUMPS IS 400' AND THE MAXIMUM SHOULD BE 800'. TO BE CONSTRUCTED ONLY WHEN APPROVED BY PALM BEACH COUNTY ENGINEER.

CONSTRUCTION PROCEDURES
 IT IS RECOMMENDED THAT A TEMPLATE BE CONSTRUCTED TO VERIFY THE ACCURACY OF THE HUMP PROFILE AND TO ENSURE THAT THE DESIRED VERTICAL DIMENSIONS ARE ATTAINED WITHIN REASONABLE TOLERANCES (NORMALLY ONE-HALF INCH OR LESS, PROVIDED THE HUMP DOES NOT EXCEED 4 INCHES). IF THE PROFILE IS INCORRECT, HUMP CHARACTERISTICS WILL BE CHANGED THAT MIGHT IMPACT TRAFFIC SAFETY OR CREATE INEFFECTIVE SPEED CONTROL.

IT IS RECOMMENDED THAT THE ROAD SURFACE BE EXCAVATED AT TAPERING EDGES TO PREVENT SPALLING. HUMPS MAY BE INSTALLED IN TWO LIFTS TO IMPROVE ACCURACY AND SHAPE.



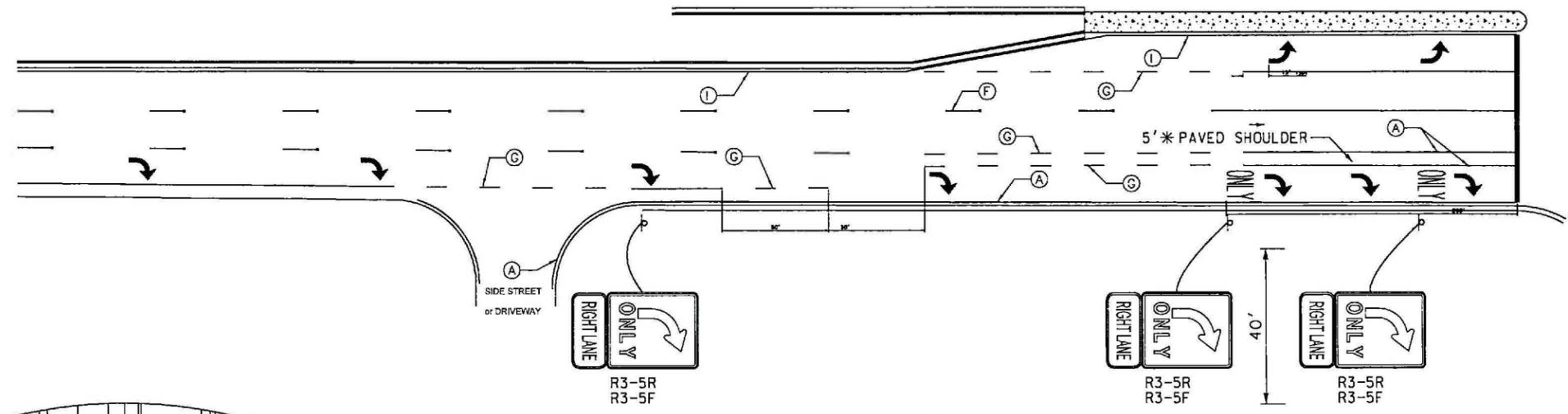
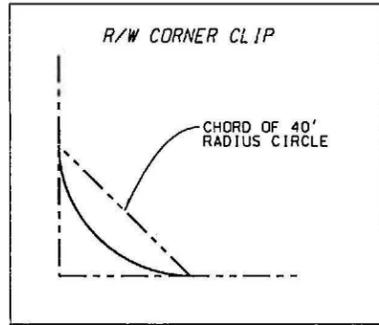
PALM BEACH COUNTY, FLORIDA
TRAFFIC DIVISION
 TYPICAL

ROAD SPEED HUMP DETAILS

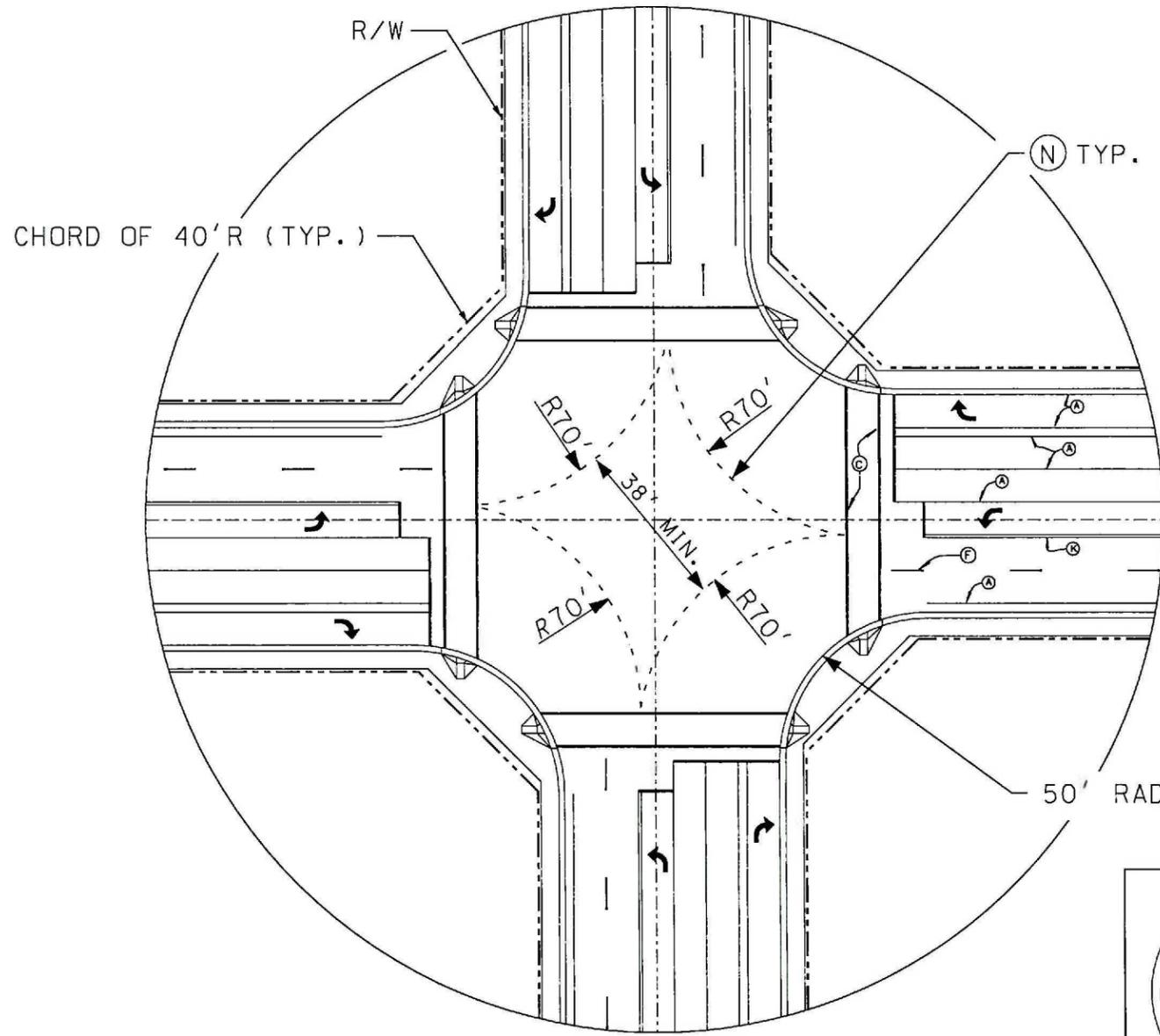
4/30/18
 BOGDAN P. PIORKOWSKI SENIOR PROFESSIONAL ENGINEER
 TANYA MCCONNELL DEPUTY COUNTY ENGINEER

DRAWN BY	CGT	DATE	4-16-2010
TRACED BY		SCALE	N.T.S.
CHECKED BY		DRAWING	T-P-18

CONTRACT NO. _____
 SHEET 6 OF 12 SHEETS



PAVED SHOULDER RIGHT TURN DROP LANE
* SEE ROADWAY PRODUCTION THROUGHFARE ROADS TYPICAL SECTION FOR SHOULDER OR BIKE LANE WIDTH.



(N) TYP. ALL APPROACHES

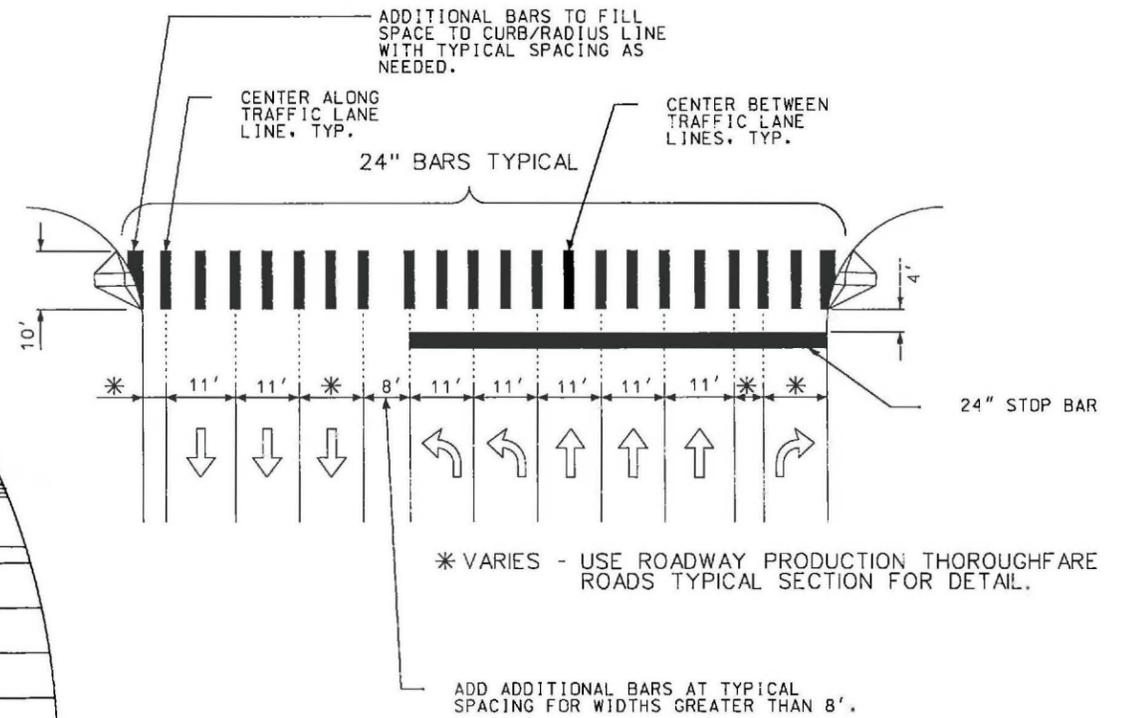
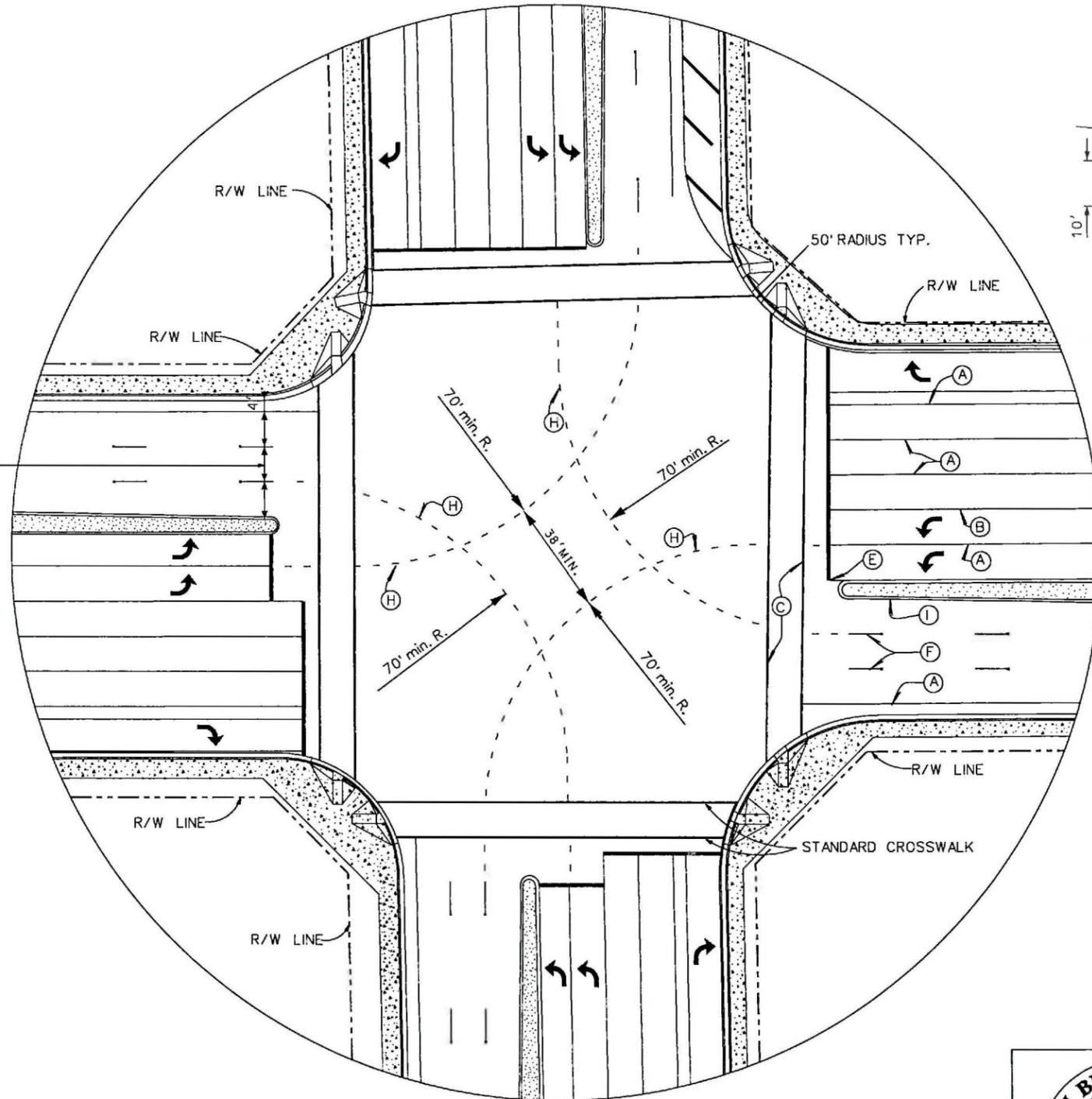
- NOTES:
1. FOR EXACT CROSSWALK PLACEMENT PLEASE SEE DETAIL 2 ON SHEET 4 OF THIS TYPICAL.



NO.	DATE	REVISIONS	BY	APP.

PALM BEACH COUNTY, FLORIDA TRAFFIC DIVISION TYPICAL			
SINGLE TURN LANE INTERSECTION; DROP TURN LANE			
4/30/18	BOGDAN PIORKOWSKI SENIOR PROFESSIONAL ENGINEER	TANYA MCCONNELL DEPUTY COUNTY ENGINEER	51318
DRAWN BY	NAME	DATE	SCALE CONTRACT NO.
			N.T.S.
TRACED BY	DRAWING		
	T-P-18		
CHECKED BY	SHEET 7 OF 12 SHEETS		

SEE ROADWAY PRODUCTION TYPICAL SECTIONS FOR DIMENSIONS (TYP)



EUROPEAN SCHOOL CROSSWALK (IF SPECIFIED)

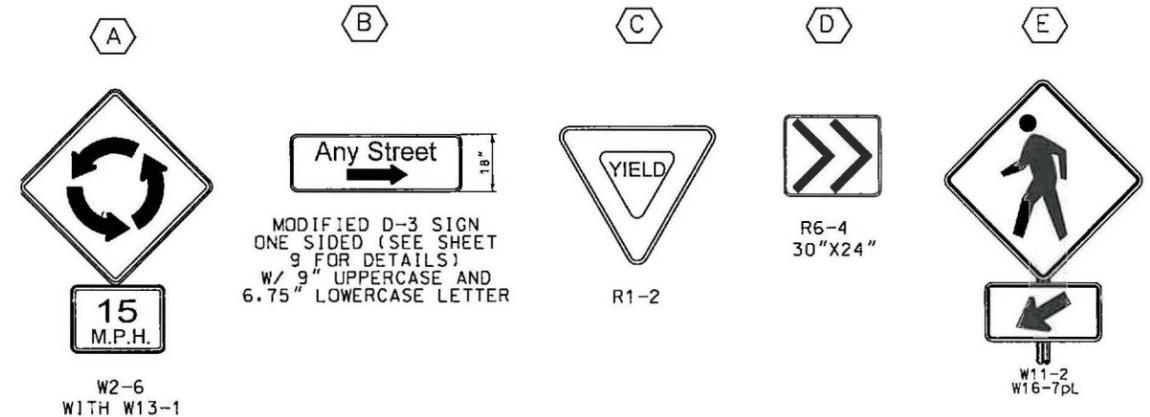


PALM BEACH COUNTY, FLORIDA			
TRAFFIC DIVISION			
TYPICAL			
EXPANDED INTERSECTION			
EUROPEAN SCHOOL CROSSWALK			
BOGDAN T. BORKOWSKI SENIOR PROFESSIONAL ENGINEER		TANYA MCCONNELL DEPUTY COUNTY ENGINEER	
NAME	DATE	SCALE	CONTRACT NO.
EL	11/04/16	N.T.S.	
DRAWN BY		DRAWING	T-P-18
TRACED BY			
CHECKED BY			
NO.	DATE	REVISIONS	BY APP.
			SHEET 8 OF 12 SHEETS

4/13/18
BOGDAN T. BORKOWSKI
TANYA MCCONNELL 51318

ADVANCE WARNING SIGN PLACEMENT

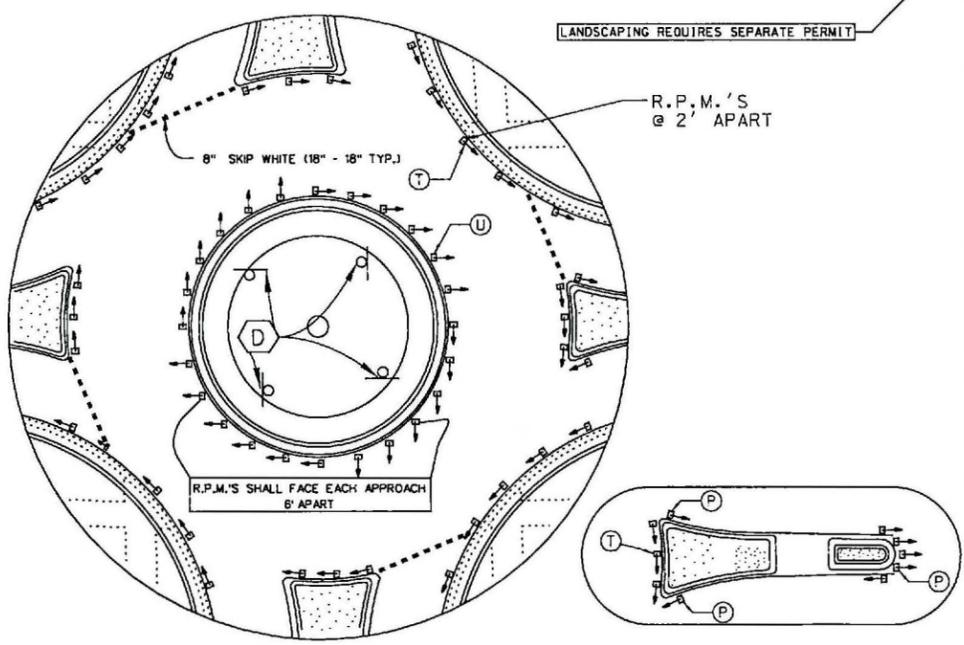
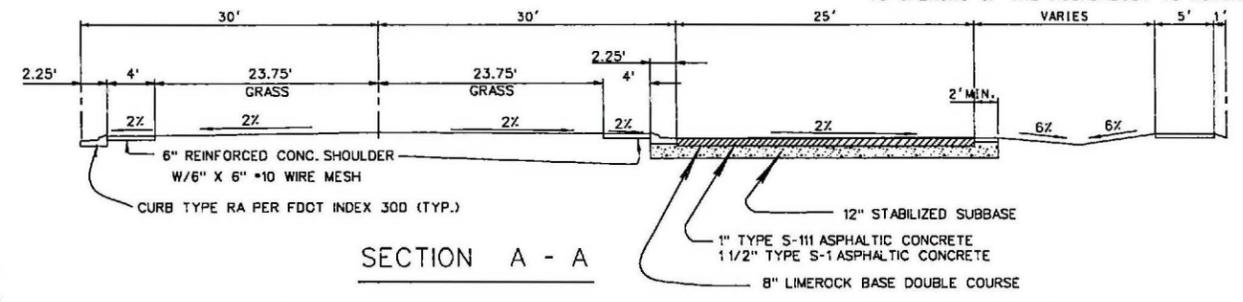
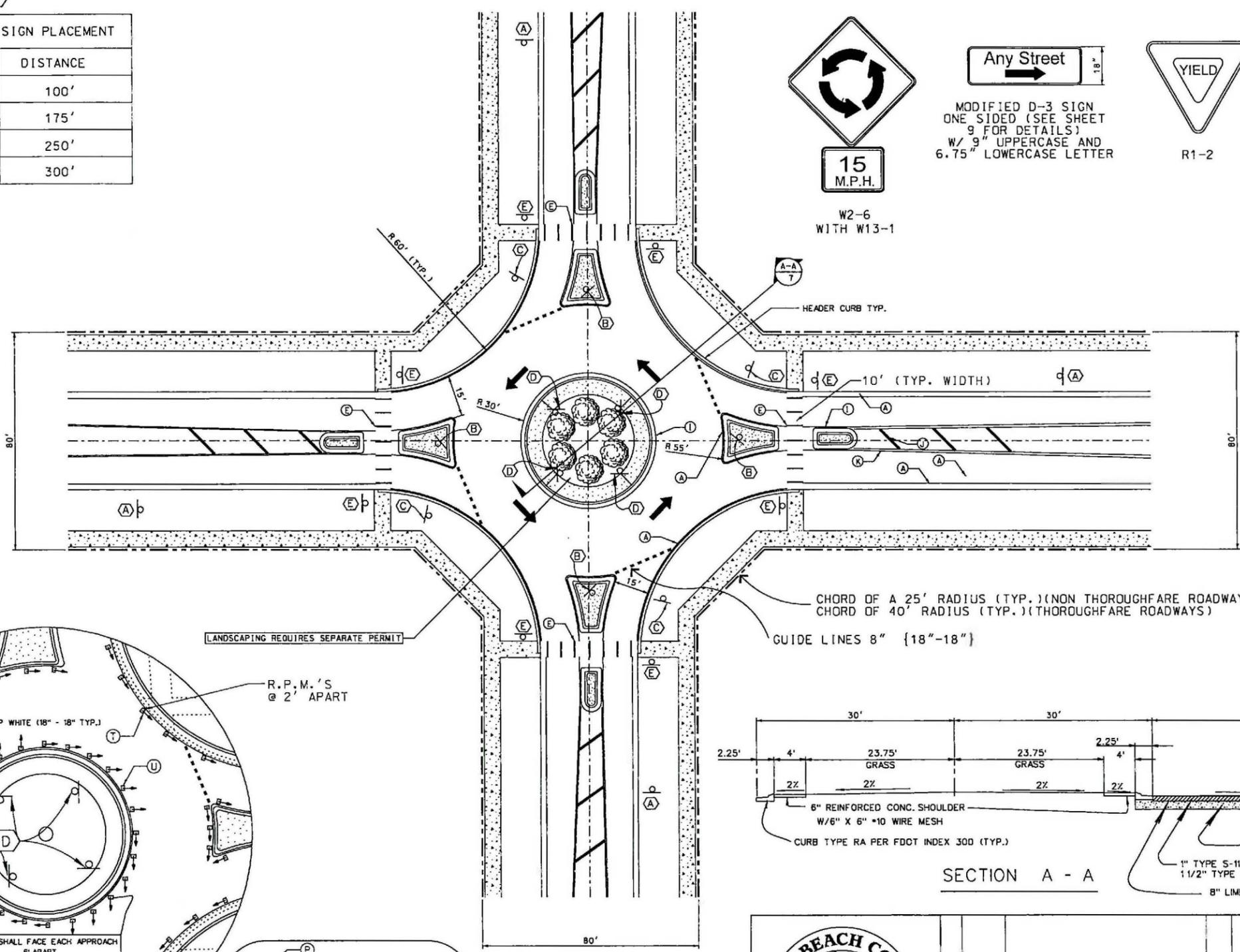
SPEED	DISTANCE
30	100'
35	175'
40	250'
45	300'



STRIPING KEY

- A = 6" SOLID WHITE
- B = 8" SOLID WHITE
- C = 12" SOLID WHITE
- D = 18" SOLID WHITE
- E = 24" SOLID WHITE
- F = 6" SKIP WHITE TYP (10'-30')
- G = 6" SKIP WHITE TYP (6'-10')
- H = 6" SKIP WHITE TYP (2'-4')
- I = 6" SOLID YELLOW
- J = 18" SOLID YELLOW
- K = 6" DOUBLE YELLOW
- L = 6" SKIP YELLOW TYP (10'-30')
- M = 6" SKIP YELLOW TYP (6'-10')
- N = 6" SKIP YELLOW TYP (2'-4')
- P = RPM BI-DIRECTIONAL AMBER/AMBER
- R = FDP WHITE
- S = FDP YELLOW
- T = RPM BI-DIRECTIONAL WHITE/RED
- U = RPM BI-DIRECTIONAL RED/YELLOW

- NOTES:**
- ALL PAVEMENT MARKINGS AND REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH PALM BEACH COUNTY TYPICAL DRAWING NO. T-P-18.
 - ROUNDAOBOUT RADII OF LESSER DIMENSIONS MAY BE ACCEPTED INSIDE SUBDIVISIONS AS APPROVED BY THE TRAFFIC DIVISION. ROUNDAOBOUTS SHALL ACCOMMODATE THE PASSAGE OF EMERGENCY VEHICLES. NO CALL BOXES, CARD READERS, OR GATES SHALL BE INSTALLED ON ROUNDAOBOUTS.
 - SEE F.D.O.T. PLANS PREP. MANUAL FOR LIGHTING GUIDELINES. APPROVAL BY PALM BEACH COUNTY TRAFFIC ENGINEER IS REQUIRED PRIOR TO INSTALLATION. ILLUMINATION SHALL BE IN PLACE PRIOR TO OPENING OF THE ROUNDAOBOUT TO MOTORISTS.



R.P.M. PLACEMENT DETAILS

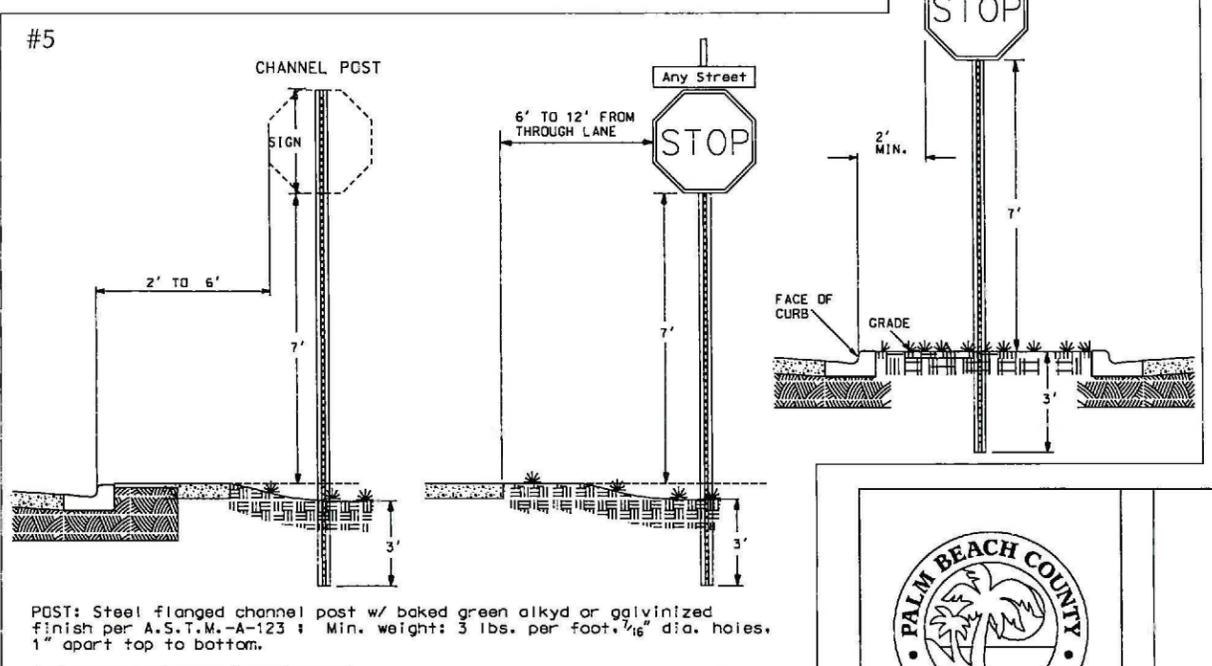
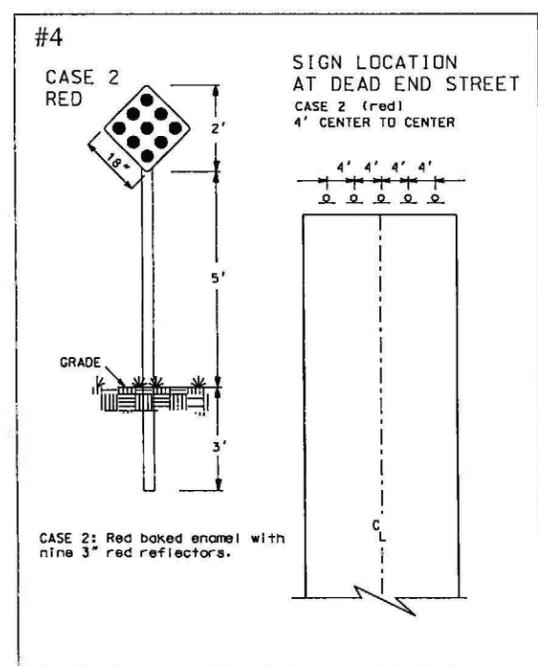
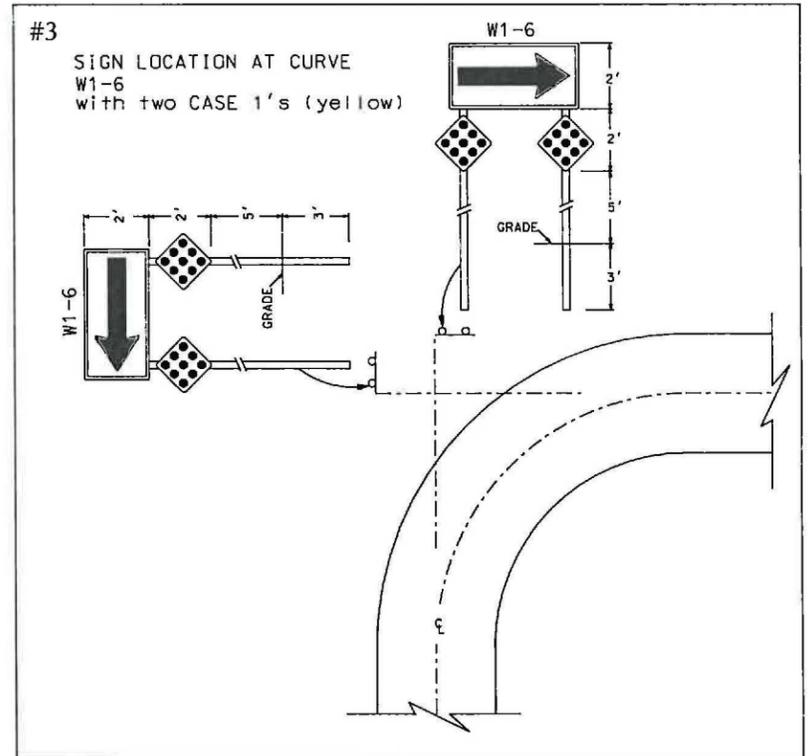
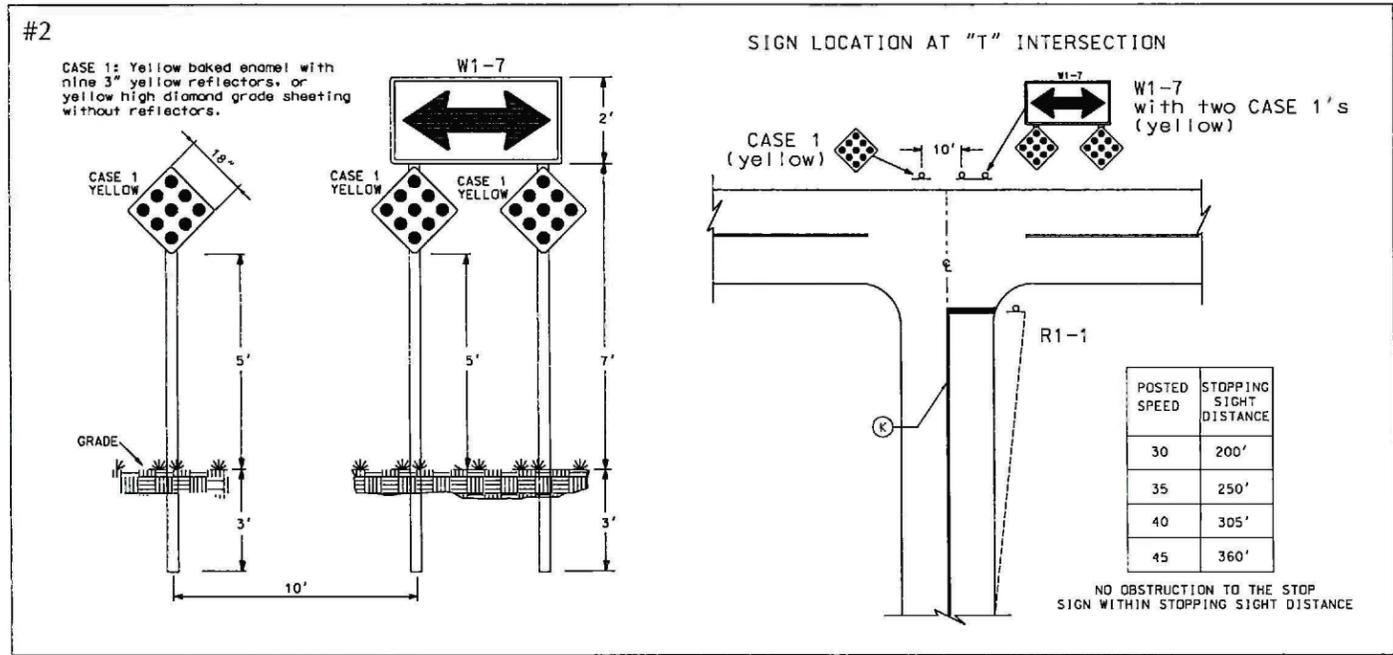
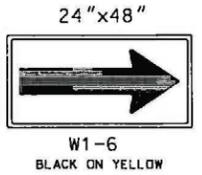
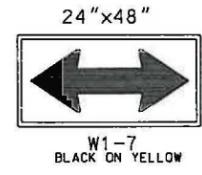
PALM BEACH COUNTY, FLORIDA
TRAFFIC DIVISION
TYPICAL

ROUNDAOBOUT
INTERSECTION OF TWO 80' RIGHTS-OF-WAY

4/30/16
 BOGDAN T. RYKOWSKI
 SENIOR PROFESSIONAL ENGINEER
 TANYA MCCONNELL
 DEPUTY COUNTY ENGINEER

DRAWN BY	EL	DATE	08/30/16	SCALE	N.T.S.	CONTRACT NO.
TRACED BY				DRAWING	T-P-18	
CHECKED BY				SHEET	9	OF 12 SHEETS

#1 SIGN SPECIFICATIONS:
 SIGN FACE - DIAMOND GRADE REFLECTIVE SHEETING
 SIZE - AS SHOWN
 COLOR - AS SHOWN
 HEIGHT - 7' MEASURED FROM BOTTOM OF THE SIGN TO HEIGHT OF THE NEAR EDGE OF PAVEMENT, OR TO TOP OF THE TRAFFIC SEPARATOR.
 THICKNESS (ALUMINUM) : .080 MILS
 THICKNESS (FIBER GLASS OR PLASTIC) : .120 MILS
 BOLTS: 3/8" x 3/4" W/ HEX NUTS, 2 (MIN.) PER SIGN
 POSTS: SIGNS 9 SQUARE FEET AND LARGER SHALL BE DOUBLE POSTED.



#6 "NEXT SIGNAL" SIGNS:
 TO BE INSTALLED ON THOROUGHFARE ROADWAYS WITH 4 OR MORE LANES, IN MEDIAN (IF POSSIBLE) OR ON THE SIDE NOT TO OBSTRUCT PATHWAYS. APPROXIMATELY 600 FEET IN ADVANCE OF INTERSECTION CROSSWALKS.
 COLOR: WHITE LETTERS ON GREEN BACKGROUND.
 WHITE 1" BORDER
 BLANK SIZE: 30"x 60" FOR MEDIANS.
 LETTER SIZE: 10" UPPERCASE AND 8" LOWERCASE FOR STREET NAME
 "NEXT SIGNAL" PHRASE 5" UPPERCASE



PALM BEACH COUNTY, FLORIDA
 TRAFFIC DIVISION
 TYPICAL

SIGN PLACEMENT

4130/18
 BOGDAN PIORKOWSKI SENIOR PROFESSIONAL ENGINEER
 TANYA MCCONNELL DEPUTY COUNTY ENGINEER

NO.	DATE	REVISIONS	BY	APP.

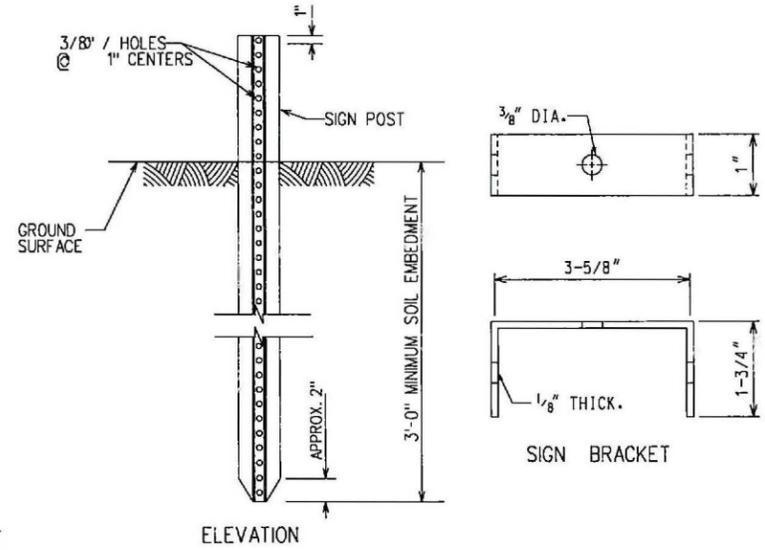
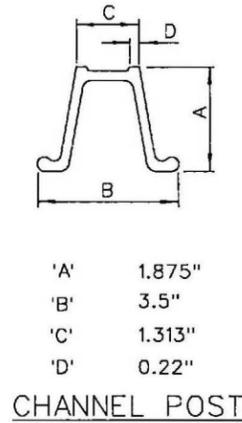
NAME	DATE	SCALE	CONTRACT NO.
EL	08/31/16	N.T.S.	

DRAWN BY: EL
 TRACED BY:
 CHECKED BY:

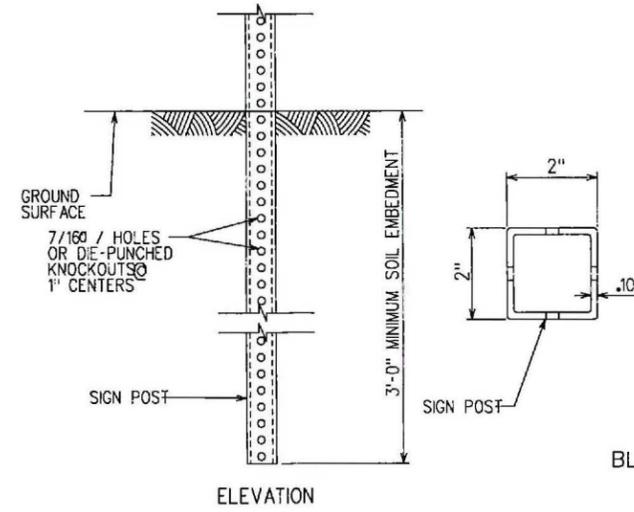
DRAWING: T-P-18
 SHEET: 10 OF 12 SHEETS



ISOMETRIC VIEW



STEEL FLANGED CHANNEL POST DETAILS



STEEL SQUARE TUBE POST DETAILS

GENERAL SPECIFICATIONS:

FLAT BLADE: ALCOA *86054.6063-T6 ALLOY, ETCHED, DECREASED WITH *1200 ALODINE FINISH WITH *3877 GREEN DIAMOND GRADE BACKGROUND AND EQUAL DIMENSIONS - 9" & 12" MIN. H, 24", 30", 36" AND 42" L.

LETTERS: NAME - 6" UPPERCASE WITH 4.5" LOWERCASE & 9" UPPERCASE WITH 6.75" LOWERCASE, SERIES 'B' * 3870 DIAMOND GRADE (SILVER) OR EQUAL - SUFFIX - 4.5".

POST: STEEL FLANGED CHANNEL POST 3 LBS. WEIGHT PER FOOT WITH BAKED GREEN ALKYD OR GALVANIZED FINISH PER A.S.T.M. -A-123 WITHOUT ANCHOR PLATES. SQUARE POST PER FDOT INDEX 11860.

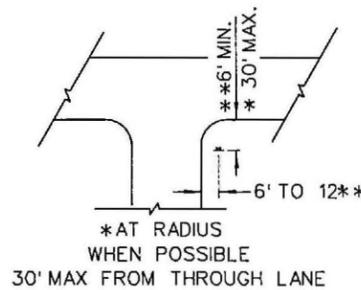
BRACKETS SHALL BE ATTACHED FIRMLY ON STANDARD SQUARE TUBE OR U-CHANNEL POSTS BY MEANS OF (2) 5/16" END VIEW DIAMETER HEX HEAD BOLTS.

STOP SIGN: R1-1 MUTCD DIAMOND GRADE

LOCATION: ONE PER INTERSECTION AS INDICATED ON THE PLANS.

POLICY: 9" BLADES WITH 6" UPPERCASE WITH 4.5" LOWERCASE LETTERS FOR TWO LANE ROADS WITH A SPEED LIMIT UNDER 45 MPH.

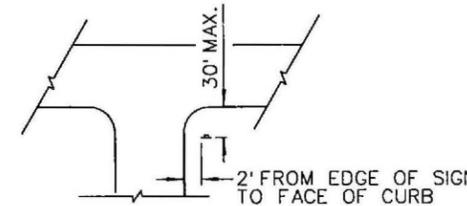
12" BLADES WITH 9" UPPERCASE WITH 6.75" LOWERCASE LETTERS FOR:
-THOROUGHFARE ROADS FOUR LANES OR WIDER.
-TWO LANE ROADS WITH A POSTED SPEED LIMIT OF 45 MPH OR MORE.
ONLY ONE BLADE WILL BE INSTALLED AT INTERSECTION WITH THOROUGHFARE ROAD INDICATING THE SIDE STREET NAME.



UNCURBED SECTION

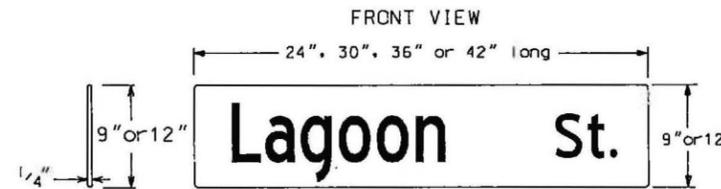
** FROM THROUGH LANE

IF STOP BAR IS USED IT SHALL BE PLACED AT THE STOP SIGN

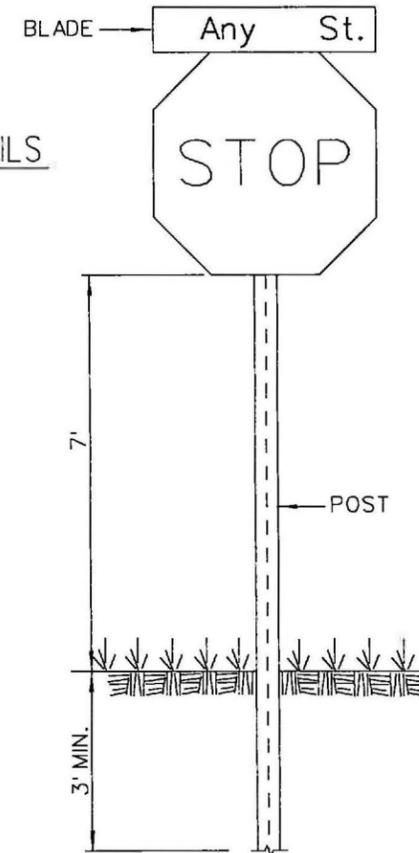


CURBED SECTION

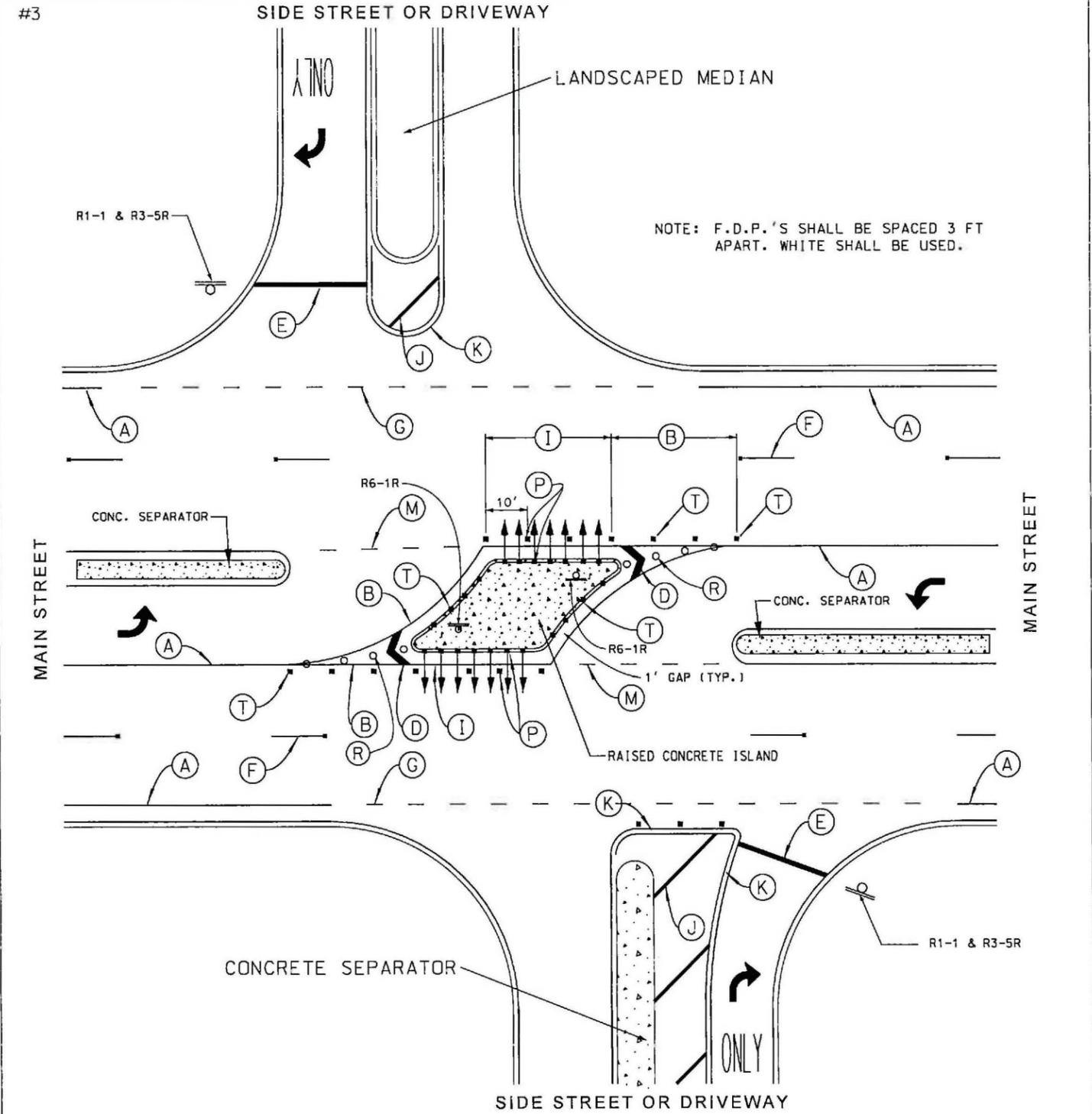
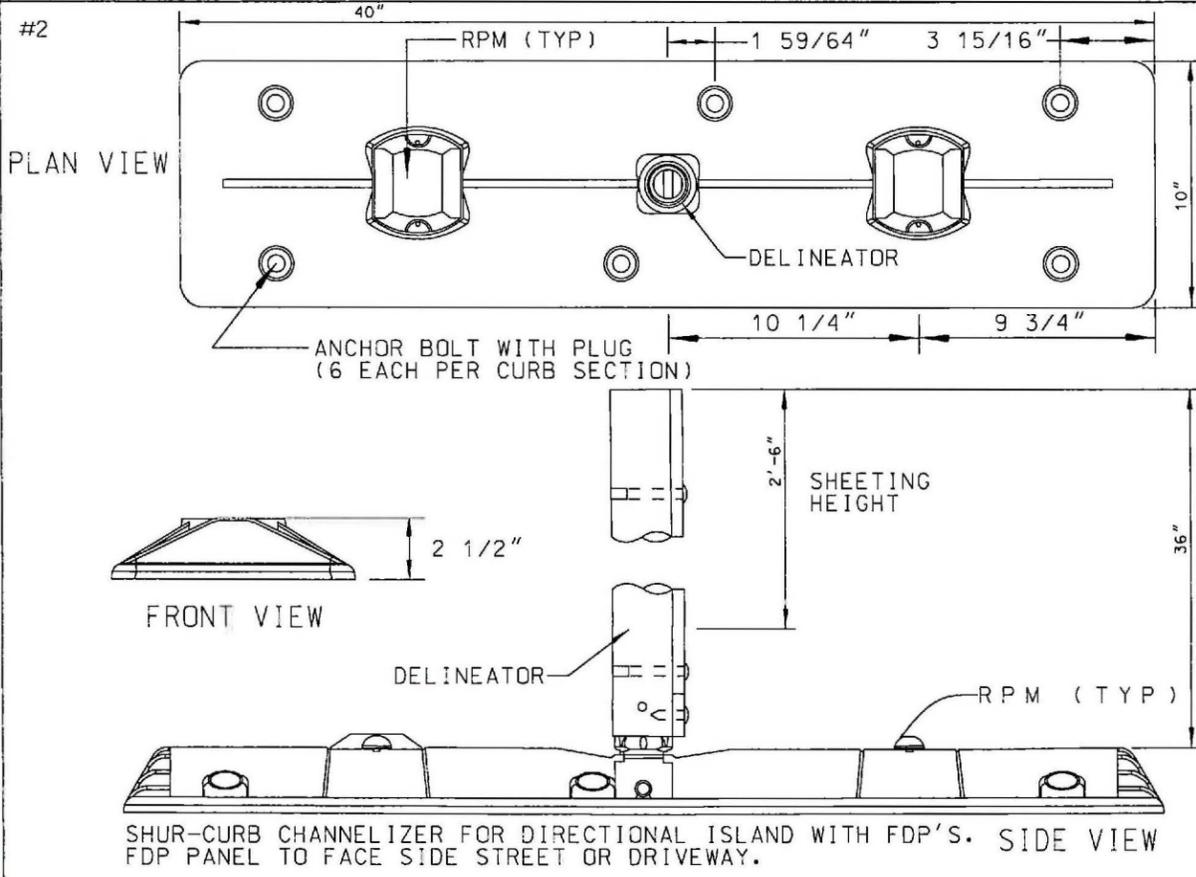
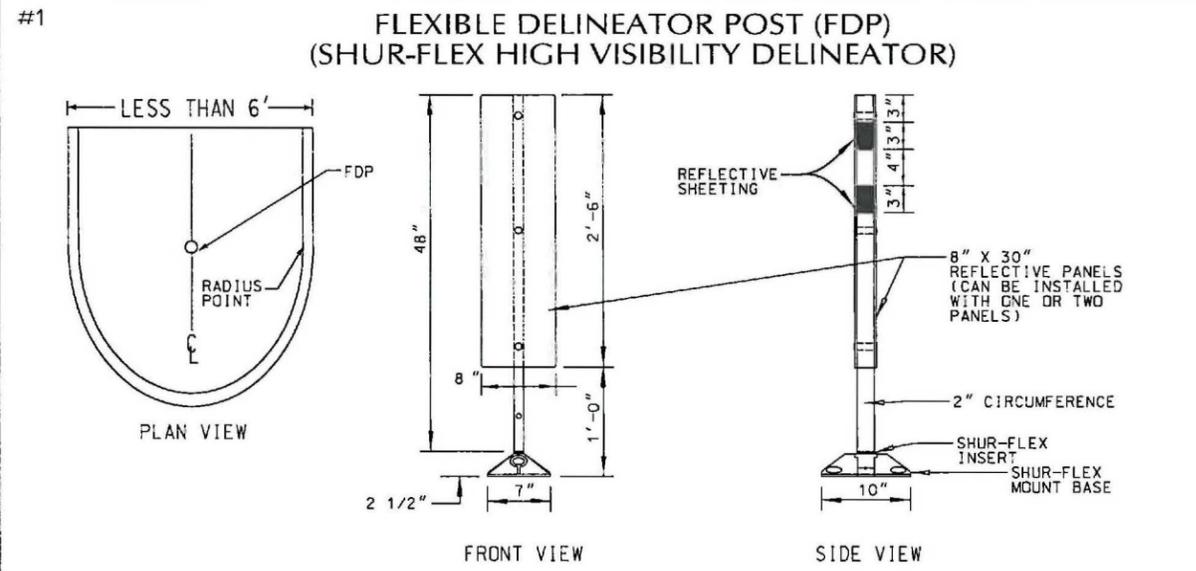
TYPICAL STOP SIGN PLACEMENT



STREET NAME SIGN D3-1



	PALM BEACH COUNTY, FLORIDA	
	TRAFFIC DIVISION	
	TYPICAL	
	STREET NAME SIGN	
4130/88 WITH STOP SIGN		
BOGDAN T. PIORKOWSKI	TANYA MCCONNELL	
SENIOR PROFESSIONAL ENGINEER	DEPUTY COUNTY ENGINEER	
NAME	DATE	SCALE CONTRACT NO.
DRAWN BY EL	08/31/16	N.T.S.
TRACED BY		
CHECKED BY		T-P-18
NO.	DATE	REVISIONS
BY	APP.	
SHEET 11 OF 12 SHEETS		



1. THE FDP SHALL MATCH THE ADJACENT EDGELINE COLOR (YELLOW OR WHITE ONLY).
2. WHEN SHOWN ON PLANS, FDP'S SHALL BE IDENTIFIED IN A SIMILAR MANNER TO THAT SHOWN ON THIS TYPICAL. COLOR AND NUMBER OF EACH MUST BE SHOWN ON ALL SUMMARY OF QUANTITIES SHEETS. ALSO, COLOR MUST BE SPECIFIED FOR EACH FDP GROUP ON THE PLANS.
3. ON DIRECTIONAL ISLANDS THE FDP'S ARE REQUIRED TO SUPPLEMENT THE EXISTING SIGNING, MARKINGS, AND RPM'S TO DETER WRONG WAY MANEUVERS. FDP'S SHOULD BE INSTALLED MIDWAY BETWEEN THE STRIPED CHEVRONS.
4. SHUR-FLEX HIGH VISIBILITY FLEXIBLE DELINEATOR (FDP). SHALL BE CONSTRUCTED FOR MEDIANS LESS THAN 6' WIDE. FOR MEDIANS AT LEAST 6' WIDE INSTALL R4-7 SIGN WITH CASE 1 YELLOW REFLECTORS ONLY.
5. SHEETING TYPE: DIAMOND GRADE SERIES 3900 SERIES TYPE 3



PALM BEACH COUNTY, FLORIDA
TRAFFIC DIVISION
TYPICAL

FLEXIBLE DELINEATOR POST
PLACEMENT DETAIL
DIRECTIONAL ISLAND

4/13/18

BOGDAN L. BORKOWSKI
SENIOR PROFESSIONAL ENGINEER

TANYA MCCONNELL
DEPUTY COUNTY ENGINEER

NAME	DATE	SCALE	CONTRACT NO.
EL	02/06/18	N. T. S.	
DRAWN BY		DRAWING	T-P-18
TRACED BY			
CHECKED BY			

SHEET 12 OF 12 SHEETS