

CITY OF DANIA BEACH

SE 5TH AVENUE TRAFFIC CALMING PROJECT

GENERAL DRAWINGS FEBRUARY 2011



CITY OFFICIALS

Mayor : C.K. McElyea
Vice Mayor : Anne Castro
Commissioner: Robert Anton
Commissioner: Walter Duke
Commissioner: Bobbie H. Grace

CITY MANAGER

Robert Baldwin

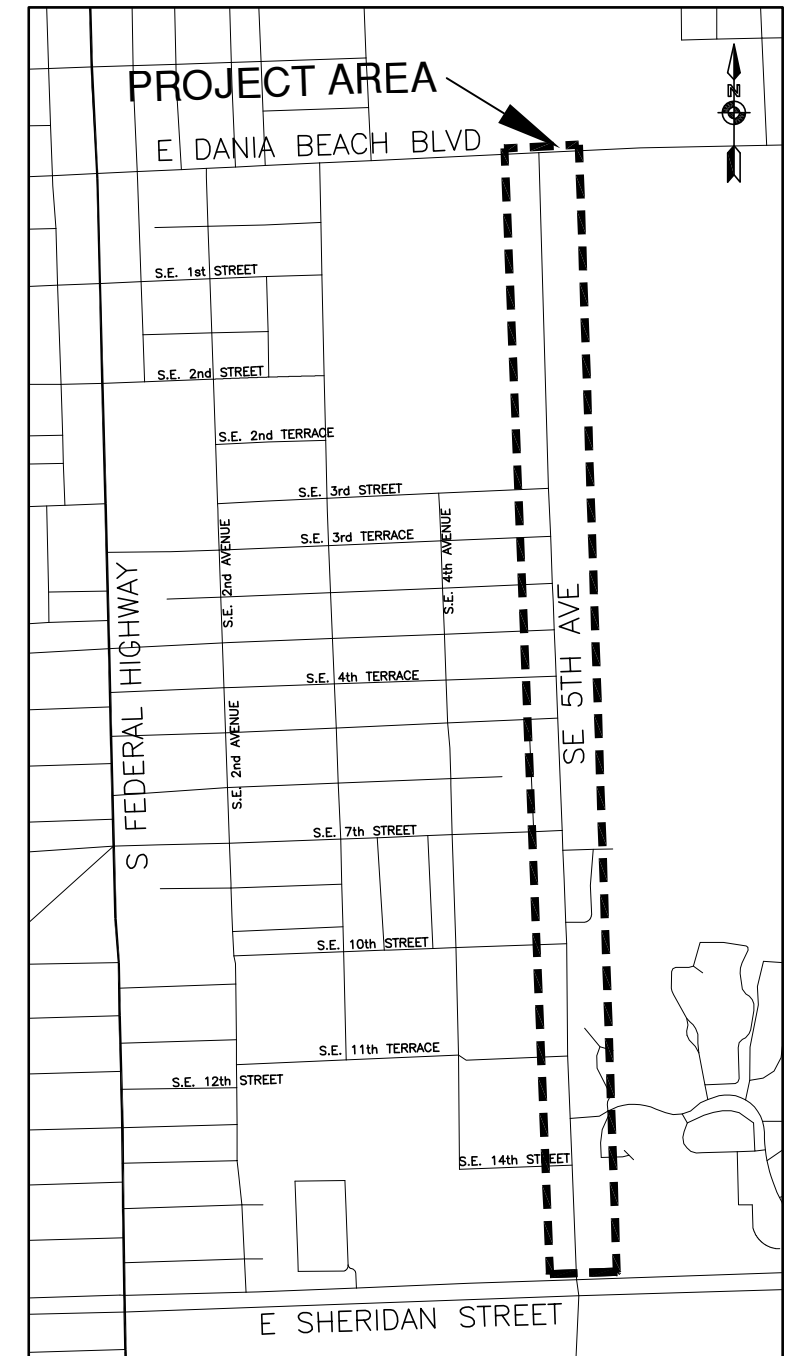
PUBLIC SERVICES DIRECTOR

Dominic Orlando, P.E.

CHEN AND ASSOCIATES

CIVIL AND ENVIRONMENTAL ENGINEERS
500 WEST CYPRESS CREEK ROAD, SUITE 410
FORT LAUDERDALE, FL 33309

ENGINEER OF RECORD: OSCAR BELLO, P.E.
FLORIDA P.E. REGISTRATION NUMBER 61612



LOCATION MAP

NOT TO SCALE

GENERAL CONSTRUCTION NOTES:

- NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING PERMISSION AND A CONSTRUCTION METER FROM THE CITY OF DANIA BEACH.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING, MOVING AND RELOCATING OR REPLACING ALL WATER SERVICES OR SEWER LATERALS WHICH ARE ENCOUNTERED DURING EXCAVATION. THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR WATER SERVICE AND WASTEWATER SERVICE DISRUPTION FOR APPROVAL 7 (SEVEN) CALENDAR DAYS PRIOR TO THE ANTICIPATED DISRUPTION. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS 48 HOURS IN ADVANCE OF ANY WORK ON THEIR SERVICES. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
- THE CONTRACTOR MUST USE EXTREME CARE TO AVOID DAMAGE OR DISRUPTION TO ANY EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. ALL PLAN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. CONTRACTOR IS TO CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-575-2000 AND ALL OTHER PARTICIPATING UTILITIES 2 FULL BUSINESS DAYS PRIOR TO CONSTRUCTION FOR FIELD MARKUP LOCATIONS OF EXISTING UTILITIES AND FACILITIES.
- THE CONTRACTOR MUST INFORM THE CITY AT LEAST 48-HOURS IN ADVANCE OF CONSTRUCTION, IN WRITING IF ANY CONFLICT IS DISCOVERED DURING POT HOLE OPERATIONS FOR CLARIFICATION BY THE CITY.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITIES DEPARTMENT OF THE CITY OF DANIA BEACH AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE TO COORDINATE ANY ACTIVITY TO BE PERFORMED BY THE CITY'S UTILITIES DEPARTMENT.
- CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE EXISTING RIGHTS-OF-WAY.
- IN GENERAL, EXISTING STRUCTURES AND UTILITIES ARE NOTED AS EXISTING AND/OR SHOWN IN THIN LINES. NEW CONSTRUCTION IS IN HEAVY LINES AND/OR UNDERLINED.
- ALL WORK WITHIN STATE DEPARTMENT OF TRANSPORTATION (FDOT) RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH FDOT SPECIFICATIONS AND PERMIT REQUIREMENTS.
- ALL WORK WITHIN BROWARD COUNTY RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH THE BROWARD COUNTY MINIMUM STANDARDS AND/OR REQUIREMENTS.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL CITY, COUNTY AND STATE REGULATIONS PERTAINING TO THE CLOSING OF PUBLIC STREETS FOR USE OF TRAFFIC DURING CONSTRUCTION.
- CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC (MOT) PLANS TO FDOT, CITY OF DANIA BEACH, BROWARD COUNTY AS REQUIRED FOR WORK TO BE DONE WITHIN THEIR R/W PRIOR TO COMMENCEMENT OF WORK. SPECIFIC AGENCY MOT REQUIREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- STATIONS SHOWN ON THE DRAWINGS ARE BASED ON THE ESTABLISHED BASELINE AND SHALL NOT BE CONSIDERED AS DISTANCES OR AS A MEASURE OF THE LINEAR FOOTAGE OF PIPE TO BE INSTALLED.
- THE GENERAL INTENT IS TO PROVIDE SEWER SERVICE LATERALS FOR EACH PROPERTY. ALL LATERAL LOCATIONS SHALL BE FIELD ADJUSTED.
- CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY AT ALL TIMES.
- ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAY OR WALKWAY SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
- TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS SHALL NOT BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT ADEQUATE PROTECTION.
- CONTRACTOR SHALL PROMPTLY REPAIR AND RESTORE EXISTING PAVEMENT, SIDEWALKS, CURBS, DRIVEWAYS, PIPES, RESIDENTIAL AND COMMERCIAL SPRINKLER LINES, CONDUIT, CABLES, ETC. AND LANDSCAPE AREAS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AS REQUIRED BY AGENCIES HAVING JURISDICTION OVER THE PROJECT AND/OR WHEN REQUIRED FOR PUBLIC SAFETY.
- THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF WORK, FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
- LOCATION OF AIR RELEASE VALVES MAY BE FIELD ADJUSTED BY THE ENGINEER OR CITY OF DANIA BEACH AS NECESSARY.
- CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITY CASTINGS INCLUDING VALVE BOXES, MANHOLES, HAND HOLES, PULL BOXES, INLETS AND SIMILAR STRUCTURES IN CONSTRUCTION AREA TO BE OVERLAPPED WITH ASPHALT.
- EXISTING TRAFFIC SIGNS SHALL BE MAINTAIN DURING CONSTRUCTION ACTIVITY AND RESET UPON COMPLETION PER BCTED STANDARDS. COST SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED TRAFFIC SIGNAL LOOPS PER BROWARD COUNTY TRAFFIC ENGINEERING SPECIFICATIONS; COST SHALL BE INCIDENTAL.
- CONTRACTOR SHALL RESTORE EXISTING PAVEMENT AND PAVEMENT MARKINGS/SIGNAGE TO ORIGINAL PRE-CONSTRUCTION CONDITION OR AS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
- ALL CONSTRUCTION WITHIN FDOT R/W MUST CONFORM WITH FDOT SPECIFICATIONS, STANDARDS, AND PERMIT REQUIREMENTS. NO WORK SHALL COMMENCE WITHIN FDOT R/W'S WITHOUT AN FDOT PERMIT. FULL LANE WIDTH RESTORATION TO MATCH EXISTING PAVEMENT SECTION IS REQUIRED IN ACCORDANCE WITH FDOT STANDARDS FOR PROPOSED WORK WITHIN FDOT R/W.
- SEWER LATERALS SHALL BE PROVIDED FOR EACH PROPERTY. MISSING SEPTIC TANKS (NOT SHOWN ON SEWER LATERALS SERVICES PLAN) WILL BE FIELD LOCATED AS CONSTRUCTION PROGRESSES AND THE FINAL LATERAL LOCATION (AND TYPE) WILL BE THEN DETERMINED WITH THE APPROVAL OF THE ENGINEER/CITY. SEPTIC TANK LOCATIONS SHOWN IN PLANS ARE APPROXIMATE, BASED ON RESIDENTS SEWER LATERAL QUESTIONNAIRES PROVIDED BY THE CITY.
- CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND ELEVATIONS BEFORE STARTING CONSTRUCTION.
- ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM 1929.

GENERAL NOTES -- TRAFFIC CONTROL PLAN

- THE TRAFFIC CONTROL PLANS FOR THE PROJECT SHALL COMPLY WITH THE LATEST EDITION OF THE ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 600-660. MUTCD AND THE STANDARD SPECIFICATIONS. THE CONTRACTOR'S RESPONSE TIME TO ALL REPORTED MALFUNCTIONS OF TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS SHALL BE NO MORE THAN TWO (2) HOURS AND SHALL RESTORE ALL MALFUNCTIONING TRAFFIC SIGNAL EQUIPMENT TO ITS LEVEL OF OPERATION PRIOR TO THE MALFUNCTIONING WITHIN TWENTY-FOUR (24) HOURS. DURING THIS TIME THE CONTRACTOR SHALL PROVIDE AT HIS EXPENSE TEMPORARY TRAFFIC CONTROL DEVICES, FLAGGLER PERSONNEL AND LAW ENFORCEMENT PERSONNEL AS NECESSARY TO MAINTAIN A SAFE AND EFFICIENT FLOW OF TRAFFIC AT THE AFFECTED WORK ZONE. THE ENGINEER OR THE CITY OF DANIA BEACH SHALL APPROVE ALL MODIFICATIONS PRIOR TO THEIR IMPLEMENTATION.
- THE CONTRACTOR SHALL MAINTAIN PROPER OPERATION OF ALL TRAFFIC SIGNAL LOOP ASSEMBLIES AND LOOP DETECTORS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL CORRECT ALL LOOP ASSEMBLY/DETECTOR MALFUNCTIONS WITHIN 24 HOURS OF NOTIFICATION OF SUCH MALFUNCTIONS BY THE ENGINEER.
- THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING.
- A REGULATORY SPEED OF 25 MPH SHALL BE POSTED WITHIN THE LIMITS OF THE WORK ZONE.
- EXISTING SIGNS AND PAVEMENT MARKINGS THAT CONFLICT WITH CONSTRUCTION SIGNS AND MARKINGS SHALL BE REMOVED DURING CONSTRUCTION. ALL EXISTING SIGNS THAT ARE REMOVED SHALL BE STOCKPILED IN A SECURE PLACE AND REINSTALLED AFTER CONSTRUCTION. REMOVE AND REPLACE ANY GROUND MOUNT SIGN BY USE OF INDEX NO. 611.
- THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AND PREVENT ADVERSE FLOODING OF THE TRAVEL LANES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM THE CITY OF DANIA BEACH FOR ANY AND ALL CONSTRUCTION ACTIVITIES TO BE PERFORMED AT NIGHT. NO LANE CLOSURE SHALL BE ALLOWED BETWEEN THE HOURS OF 6:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM, MONDAY THROUGH FRIDAY UNLESS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY TWO (2) BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. SEE SPECS FOR LIST OF UTILITY COMPANIES.
- TRAFFIC CONTROL ON ALL COUNTY RIGHTS-OF-WAY SHALL MEET THE ADDITIONAL REQUIREMENTS OF THE BROWARD COUNTY ENGINEERING DEPARTMENT.
- THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING.
- CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC PLAN (MOT) WHERE REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL AGENCIES HAVING JURISDICTION. CONTRACTOR SHALL OBTAIN ALL REQUIRED APPROVALS AND PERMITS ASSOCIATED WITH THE MOT'S. ALL MOT'S TO BE ATCS CERTIFIED.
- THE CONTRACTOR SHALL ALSO COORDINATE THE CONSTRUCTION SCHEDULE WITH FDOT, BROWARD COUNTY AND THE CITY OF DANIA BEACH TO AVOID LANE CLOSURES WHICH WOULD ADVERSELY AFFECT TRAFFIC DURING RUSH HOUR.

INDEX TO DRAWINGS

SHEET	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3-8	PLAN SHEETS
9-10	CONSTRUCTION DETAILS

LEGEND

ABBREVIATIONS

C.L.F.	=	CHAIN LINK FENCE
CMP	=	CORRUGATED METAL PIPE
CONC.	=	CONCRETE
F.H.	=	FIRE HYDRANT
GAS	=	GAS MAIN
INV.	=	INVERT
OHW	=	OVERHEAD WIRES
R/W	=	RIGHT-OF-WAY
RCP	=	REINFORCED CONCRETE PIPE
SAN	=	SANITARY
SMH	=	SANITARY MANHOLE
S.V.	=	SEWER VALVE
T.O.P.	=	TOP OF PIPE
UNK.	=	UNKNOWN TREE TYPE
U.T.O.	=	UNABLE TO OBTAIN DATA
U.V.	=	UNKNOWN VALVE
W.V.	=	WATER VALVE

GENERAL NOTES--BROWARD COUNTY TRAFFIC ENGINEERING DEPT.

1 ALL PARTIES NOTE THE FOLLOWING:

DIRECTIONAL BORES, UTILITY CONNECTIONS, THE PLACEMENT OF MOT AND ADVANCE SIGNAGE MAY BY THEIR PLACEMENT, DAMAGE/DESTROY THE COMMUNICATIONS CABLE/CONDUIT LOCATED INSIDE AND OUTSIDE THE PROJECT AREA. ADDITIONALLY, CURB/GUTTER/SIDEWALK REMOVAL/PLACEMENT, RELOCATION OF TREES, LANDSCAPING ACTIVITIES AND IRRIGATION ACTIVITIES ARE POTENTIAL CAUSES FOR DAMAGE TO BCTED'S COMMUNICATION CABLE/CONDUIT. ALL PARTIES SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN PROXIMITY TO THE COMMUNICATIONS CABLE/CONDUIT.

ANY ABOVE PROJECT ACTIVITY, INCIDENTAL OR OTHERWISE, WHICH IMPACTS OR DAMAGES THE COMMUNICATIONS CABLE/CONDUIT, SHALL BE SUBJECT TO THE FOLLOWING NOTES AND CONDITIONS BELOW.

2 COMMUNICATION NOTES:

THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED). ALL SYSTEM COMMUNICATIONS EQUIPMENT, CABLING AND RELATED MATERIAL SHALL COMPLY WITH BROWARD COUNTY'S LATEST EDITION OF MINIMUM STANDARDS AS EXPRESSED IN THE "STANDARDS AND SPECIFICATIONS -- COMMUNICATION INFRASTRUCTURE" DOCUMENT. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION WILL NOT ACCEPT ANY PROJECTS THAT DO NOT MEET THESE STANDARDS AND SPECIFICATIONS. FOR A COPY OF THESE STANDARDS REFER TO BROWARD COUNTY WEB SITE AT WWW.BROWARD.ORG/TRAFFIC OR CONTACT ROBERT BLOUNT, COMMUNICATIONS MANAGER AT RBLOUNT@BROWARD.ORG.

THE CONTRACTOR SHALL MAINTAIN ONLINE COMMUNICATIONS OF EXISTING OR TEMPORARY SIGNALIZATION VIA INTERCONNECT COMMUNICATIONS CABLE OR TELCO PHONE LINES DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY LINES AND CONNECTIONS AS NECESSARY. A TIME-BASED-COORDINATION (TBC) SYSTEM IS TO BE UTILIZED ONLY IF PROVISION OF THE TEMPORARY LINES IS NOT FEASIBLE. THE DEVELOPMENT AND IMPLEMENTATION OF THE TBC PROGRAM IS TO BE PERFORMED BY THE CONTRACTOR WITH OVERSIGHT BY A TRAFFIC ENGINEER REGISTERED IN THE STATE OF FLORIDA. COST OF MAINTAINING COMMUNICATIONS WITH THE CENTRAL SITE, INCLUDING TEMPORARY LINES AND CONNECTIONS, SHALL BE PAID FOR UNDER THE MAINTENANCE OF TRAFFIC. ALL REPORTED MALFUNCTIONS OF THE COMMUNICATIONS SYSTEM SHALL BE RESPONDED TO BY THE CONTRACTOR WITHIN TWO HOURS AND SHALL BE REPAIRED WITHIN TWENTY FOUR HOURS.

THE CONTRACTOR SHALL BE AWARE THAT BELLSOUTH TELEPHONE DROPS AND SYSTEM COMMUNICATIONS INTERCONNECT MAY EXTEND THROUGHOUT THE PROJECT. CABLE RUNS AND/OR CONDUIT, TELEPHONE INTERFACE EQUIPMENT, PULL/JUNCTION BOXES AND ANY OTHER SIGNAL OR OTHER SYSTEMS EQUIPMENT DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. DAMAGED COMMUNICATIONS CABLE SHALL BE REPLACED AS AN ENTIRE RUN, FROM JUNCTION POINT TO JUNCTION POINT AND SHALL BE TERMINATED IN JUNCTION BOXES. THE CONTRACTOR SHALL OBTAIN SYSTEMS COMMUNICATIONS INFORMATION FROM THE APPLICABLE MAINTAINING AGENCY.

ANY MATERIAL FURNISHED FOR THE PURPOSES OF: NEW INSTALLATION, REPLACEMENT OR REPAIR OF THE EXISTING COMMUNICATIONS INFRASTRUCTURE SHALL MEET THE STANDARDS AND SPECIFICATIONS OF BCTED; ANY SUPPLIED CONTROLLER CABINET, CONTROLLER, TELEMETRY UNIT, COMMUNICATIONS CABLE, PULL BOX, CONDUIT, TERMINATION DEVICE, JUNCTION BOX AND COMMUNICATIONS INTERFACE PANEL SHALL COMPLY WITH THE LATEST REQUIREMENTS AS STATED BY BCTED AND SHALL PROVIDE FOR FULL FUNCTIONALITY WITH THE EXISTING BCTED'S UTCS OPERATION.

INCLUDE BROWARD COUNTY TRAFFIC ENGINEERING (BCTED) IN ANY NOTICE OF UTILITY OWNERSHIP OR WITHIN A "UTILITY OWNERS/CONTACT PERSON" TABLE AS: BROWARD COUNTY TRAFFIC ENGINEERING 954-847-2745 (BOB BLOUNT)

ALL BCTED COMMUNICATIONS CABLE/CONDUIT SHALL BE LOCATED IN A MINIMUM OF 48 HOURS IN ADVANCE.

3 BROWARD COUNTY TRAFFIC ENGINEERING DIVISION PROCEDURE FOR NOTIFICATION OF COMMUNICATION DISRUPTION:

WHEN COMMUNICATIONS TO AN INTERSECTION MUST BE DISRUPTED BY A CONTRACTOR TO PERFORM WORK, THE CONTRACTOR SHALL PROVIDE AN ADVANCE TWO DAY NOTICE IN WRITING TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THIS NOTIFICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (EMAIL) TO THE COMMUNICATION'S MANAGER AT RBLOUNT@BROWARD.ORG. NOTIFICATION SHALL INCLUDE CONTACT PERSON, TELEPHONE NUMBER, PURPOSE, LOCATION AND DURATION. THE DISRUPTION SHALL LAST FOR NO MORE THAN 3 CONSECUTIVE BUSINESS DAYS. WHERE POSSIBLE, THE DISRUPTION SHALL BE AT OFF PEAK HOURS BEGINNING AT 9:00AM AND ENDING AT 3:00PM.

LEGEND:

	AREA OF CONCRETE SIDEWALK
	AREA OF PROPOSED ASPHALT
	AREA OF ASPHALT RESURFACING

LEGEND:

SYMBOL	DESCRIPTION
	EXISTING VALVE
	FIRE HYDRANT
	BENCH MARK
	POWER POLE ANCHOR WIRE
	YARD DRAIN
	CURB INLET
	CURB INLET
	CATCH BASIN
	UNKNOWN TREE
	EXISTING PALM
	TREE
	CONCRETE POWER/LIGHT POLE
	CONCRETE POWER POLE
	LIGHT POLE
	STORMWATER MANHOLE
	GATE VALVE
	ELECTRIC METER
	ELECTRICAL HANDHOLE
	TELEPHONE POLE
	LIGHT POLE
	TRAFFIC SIGN
	WATER METER BOX
	WOOD POWER POLE
	POLE
	MAILBOX
	PROPOSED CURB INLET
	NAIL IN BOTTLE CAP
	NAIL IN ASPHALT
	GAS LINE
	WATER MAIN
	BURIED TELEPHONE
	TELEPHONE
	STORM DRAINAGE
	FORCE MAIN
	OVERHEAD WIRES
	SANITARY SEWER
	CHAIN LINK FENCE
	WOOD FENCE
	EXISTING ELEVATION
	EXISTING SEWER MANHOLE
	BIKE LANE PAVEMENT MARKING SYMBOL
	NOT IN CONTRACT

CHEN AND ASSOCIATES
 CIVIL AND ENVIRONMENTAL ENGINEERS
 500 WEST CYPRESS CREEK ROAD, SUITE 410
 FORT LAUDERDALE, FLORIDA 33309
 PHONE: (954)730-0707 FAX: (954)730-2030
 STATE OF FLORIDA ENGINEERING BUSINESS LICENSE NO. 4593

DATE	REVISIONS

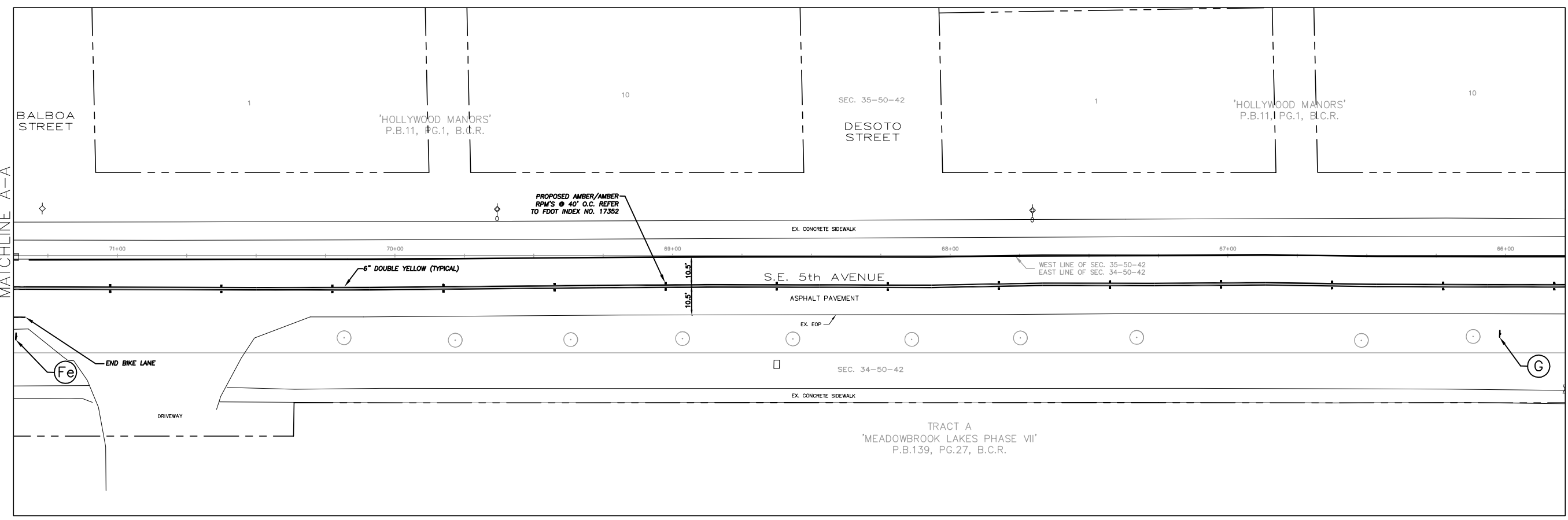
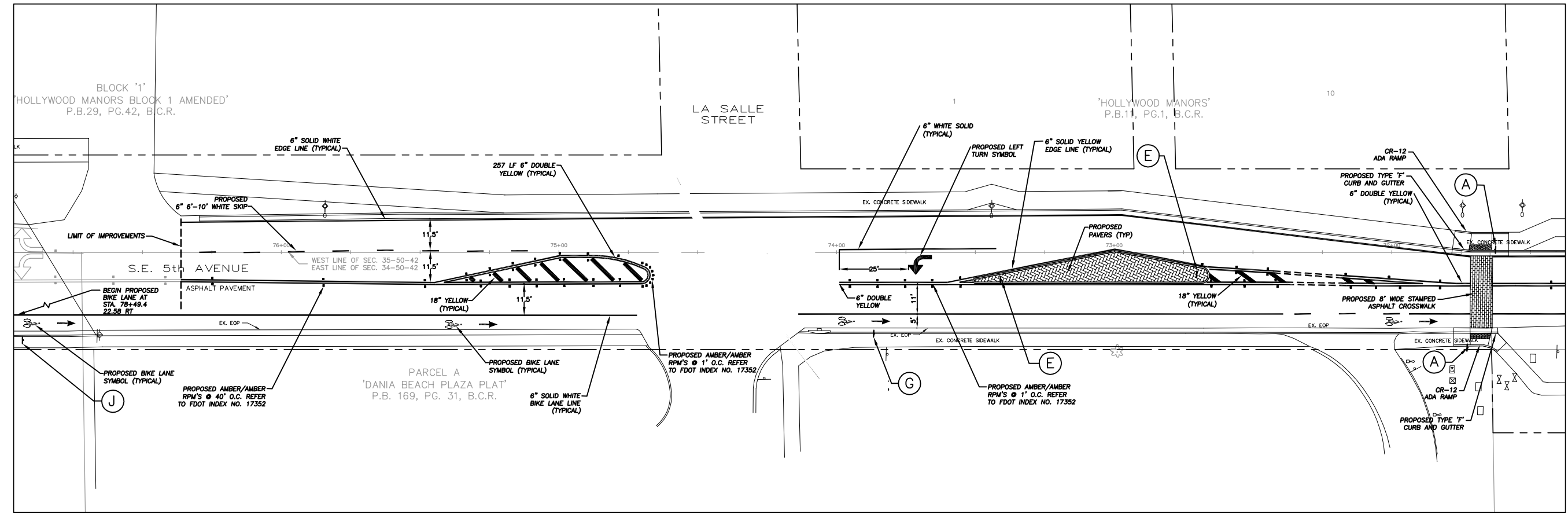
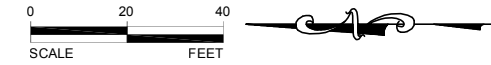
DATE FEBRUARY 2011
 SCALE 1"=20'
 DWNG. BY JB
 CHECKED BY OB
 FLORIDA REG. # 61612



CITY OF DANIA BEACH
 SE 5TH AVENUE
 TRAFFIC CALMING PROJECT

LEGEND & INDEX SHEET

SHEET NO. 2
 OF 10 SHEETS
 DANIA PROJECT NO. _____



CHEN AND ASSOCIATES
 CIVIL AND ENVIRONMENTAL ENGINEERS
 500 WEST CYPRESS CREEK ROAD, SUITE 410
 FORT LAUDERDALE, FLORIDA 33309
 PHONE: (954)730-0707 FAX: (954)730-2030
 STATE OF FLORIDA ENGINEERING BUSINESS LICENSE NO. 4593

DATE	REVISIONS

DATE FEBRUARY 2011
 SCALE 1"=20'
 DWNG. BY JB
 CHECKED BY OB
 FLORIDA REG. # 61612

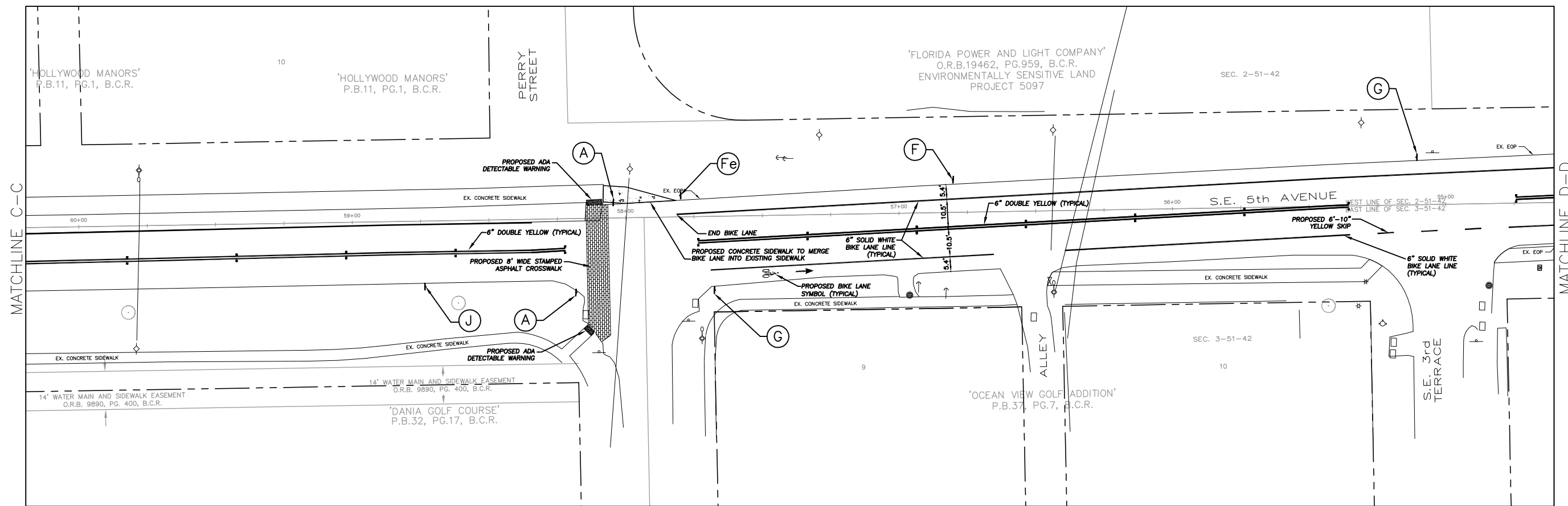
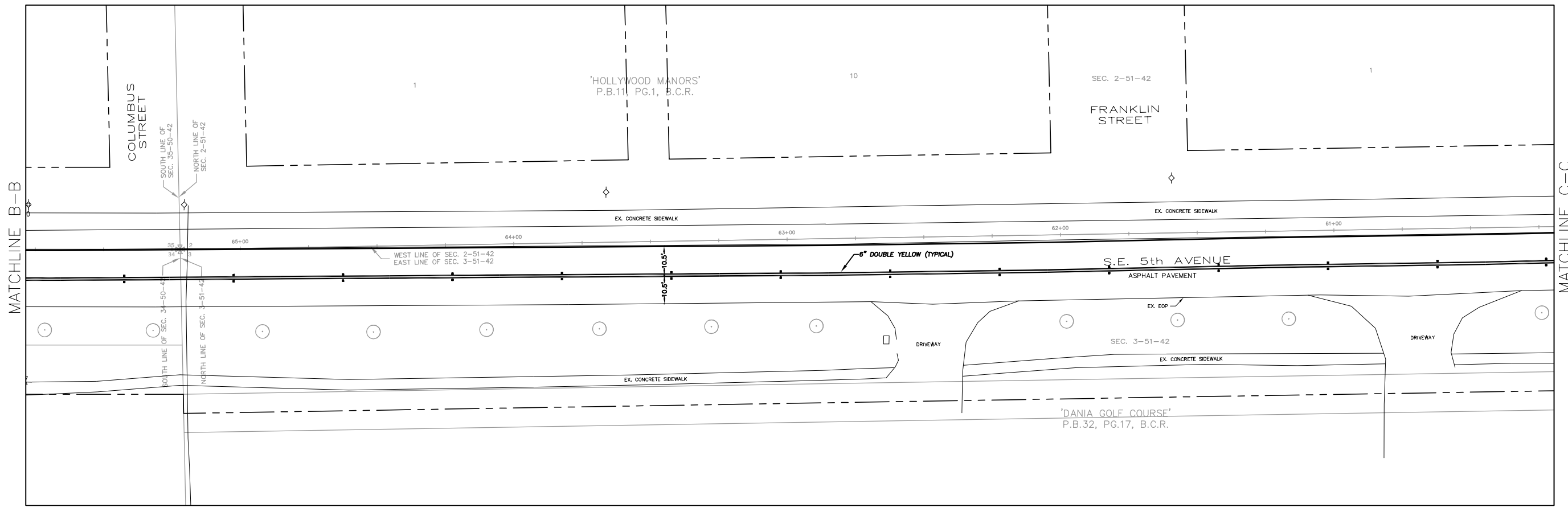
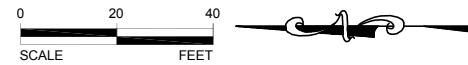


CITY OF DANIA BEACH
 SE 5TH AVENUE
 TRAFFIC CALMING PROJECT

PROPOSED IMPROVEMENTS
 SIGNING & MARKING
 SM-1 & SM-2

SHEET NO. 3
 OF 10 SHEETS
 DANIA PROJECT NO. _____

X:\029\990\029\5TH AVE DANIA TRAFFIC CALMING.dwg Mar 01, 2011 - 8:51am, LAST ACCESSED BY: cadstmon



CHEN AND ASSOCIATES
 CIVIL AND ENVIRONMENTAL ENGINEERS
 500 WEST CYPRESS CREEK ROAD, SUITE 410
 FORT LAUDERDALE, FLORIDA 33309
 PHONE: (954)730-0707 FAX: (954)730-2030
 STATE OF FLORIDA ENGINEERING BUSINESS LICENSE NO.4593

DATE	REVISIONS

DATE FEBRUARY 2011
 SCALE 1"=20'
 DWNG. BY JB
 CHECKED BY QB
 FLORIDA REG. # 61612

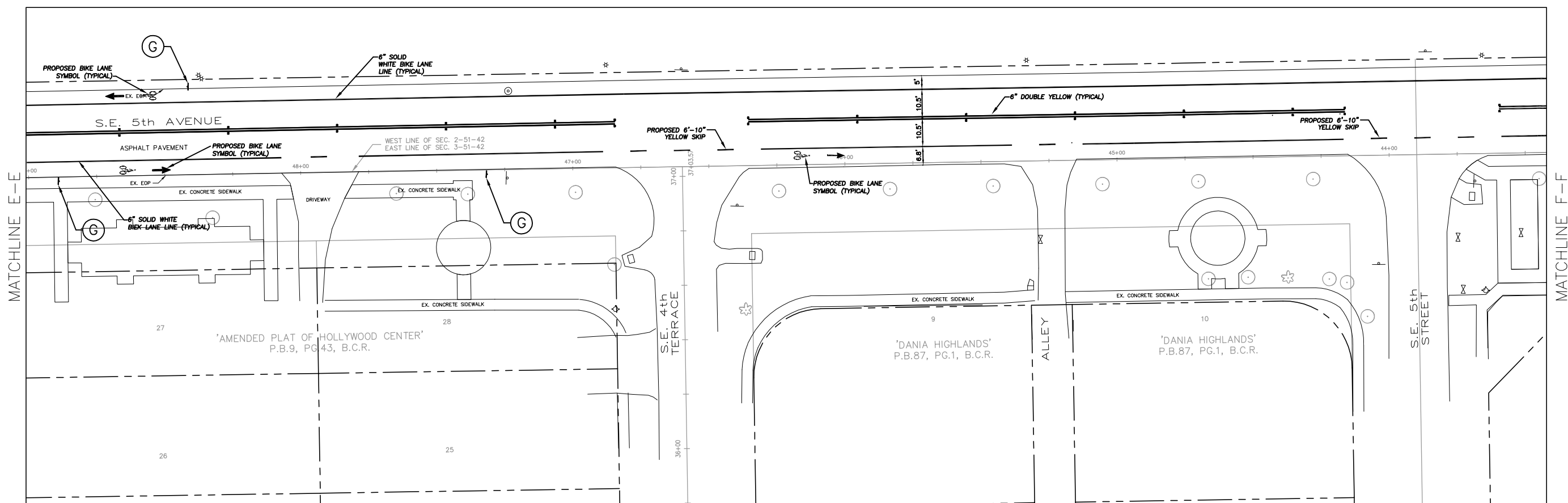
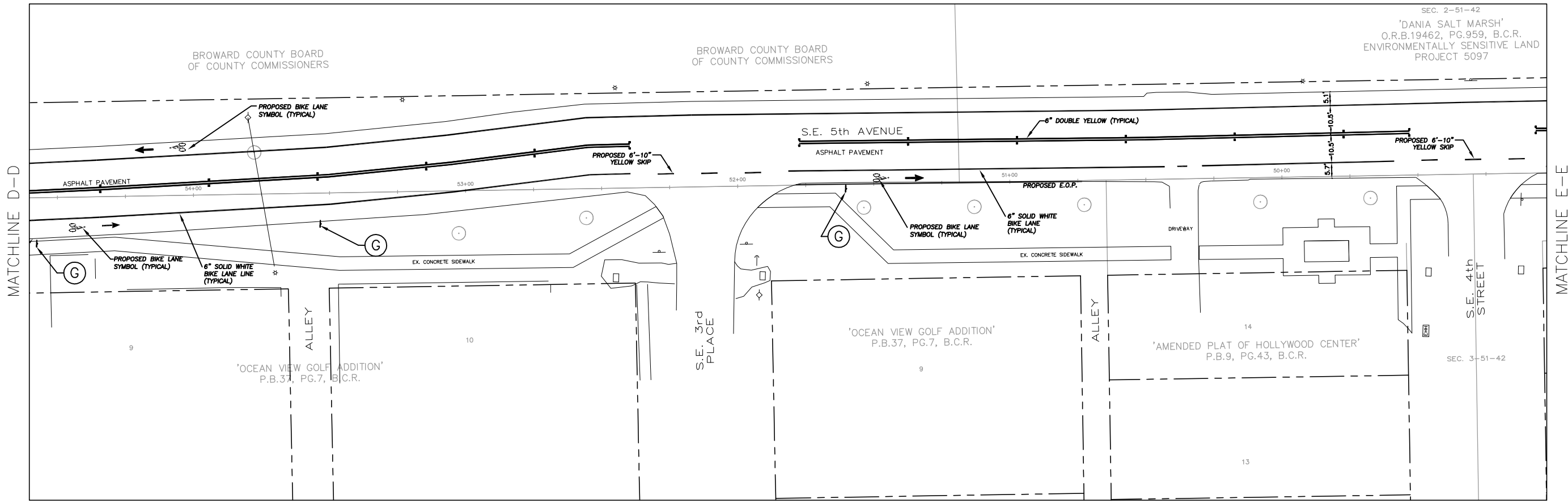
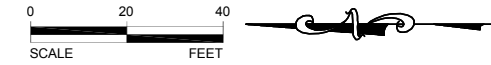


CITY OF DANIA BEACH
 SE 5TH AVENUE
 TRAFFIC CALMING PROJECT

PROPOSED IMPROVEMENTS
 SIGNING & MARKING
 SM-3 & SM-4

SHEET NO. 4
 OF 10 SHEETS
 DANIA PROJECT NO. _____

X:\021\090\025\1\458\5TH AVE DANA TRAFFIC CALMING.dwg Mar 01, 2011 - 8:51am, LAST ACCESSED BY: canderan



CHEN AND ASSOCIATES
 CIVIL AND ENVIRONMENTAL ENGINEERS
 500 WEST CYPRESS CREEK ROAD, SUITE 410
 FORT LAUDERDALE, FLORIDA 33309
 PHONE: (954)730-0707 FAX: (954)730-2030
 STATE OF FLORIDA ENGINEERING BUSINESS LICENSE NO. 4593

DATE	REVISIONS

DATE: FEBRUARY 2011
 SCALE: 1"=20'
 DWNG. BY: JB
 CHECKED BY: QB
 FLORIDA REG. #: 61612

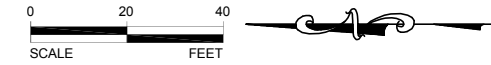


CITY OF DANIA BEACH
 SE 5TH AVENUE
 TRAFFIC CALMING PROJECT

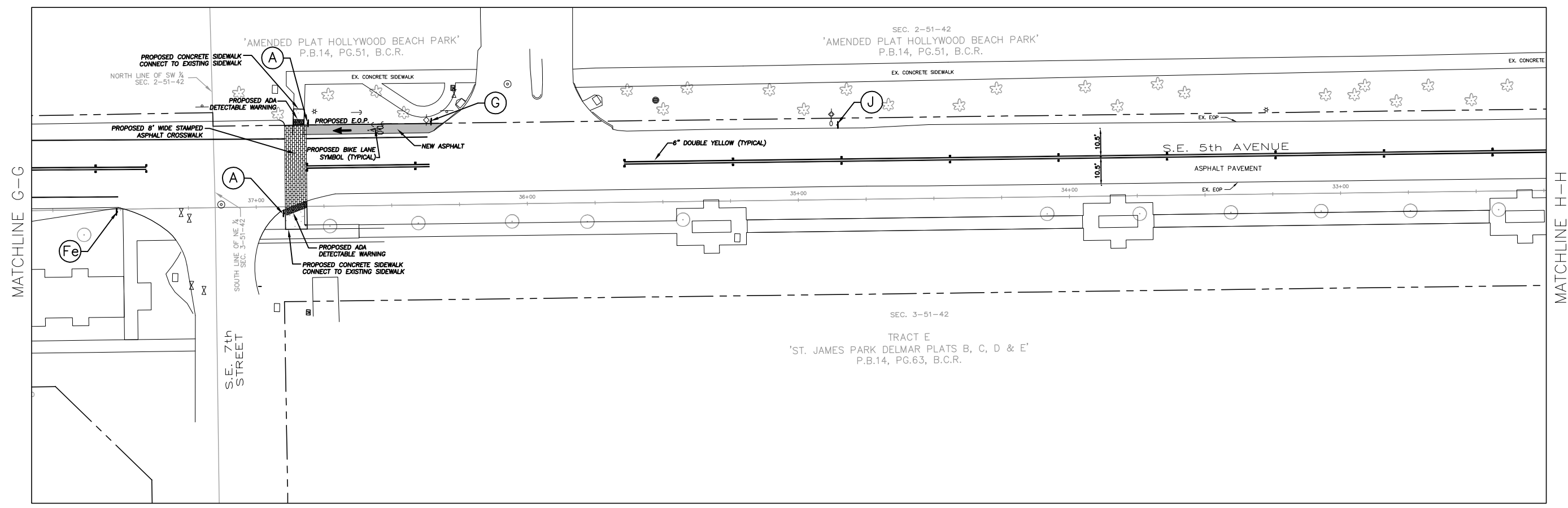
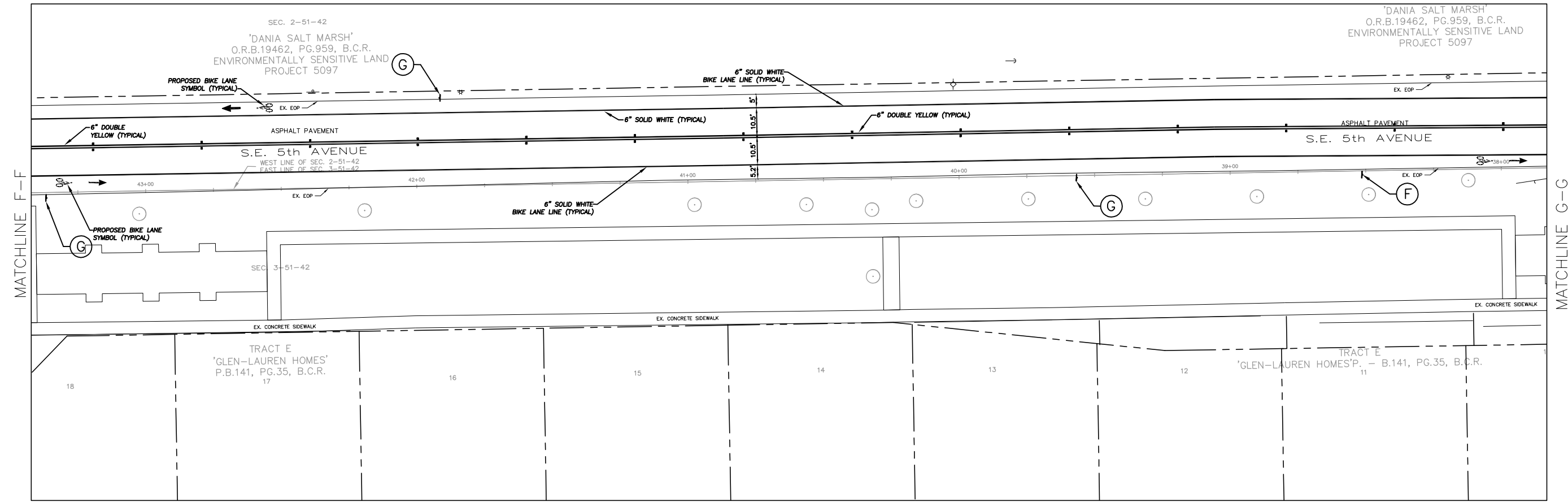
PROPOSED IMPROVEMENTS
 SIGNING & MARKING
 SM-5 & SM-6

SHEET NO. 5
 OF 10 SHEETS
 DANIA PROJECT NO.

X:\021\020\025\4589\5TH AVE DANA TRAFFIC CALMING.dwg Mar 01, 2011 - 8:51am, LAST ACCESSED BY: candelaria



'DANIA SALT MARSH'
O.R.B.19462, PG.959, B.C.R.
ENVIRONMENTALLY SENSITIVE LAND
PROJECT 5097



CHEN AND ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
500 WEST CYPRESS CREEK ROAD, SUITE 410
FORT LAUDERDALE, FLORIDA 33309
PHONE: (954)730-0707 FAX: (954)730-2030
STATE OF FLORIDA ENGINEERING BUSINESS LICENSE NO.4593

DATE	REVISIONS

DATE FEBRUARY 2011
SCALE 1"=20'
DWNG. BY JB
CHECKED BY QB
FLORIDA REG. # 61612

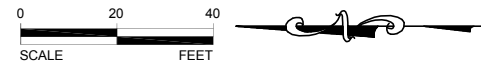


CITY OF DANIA BEACH
SE 5TH AVENUE
TRAFFIC CALMING PROJECT

PROPOSED IMPROVEMENTS
SIGNING & MARKING
SM-7 & SM-8

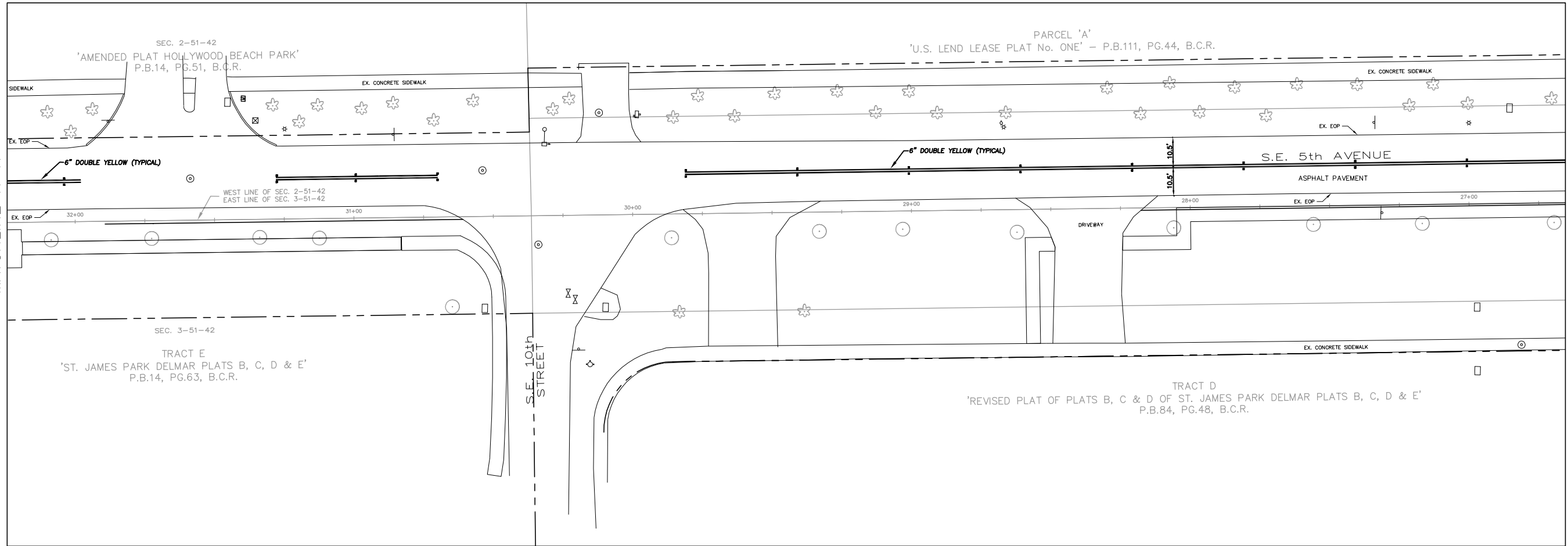
SHEET NO. 6
OF 10 SHEETS
DANIA PROJECT NO.

X:\024\030\024\5TH AVE DANA TRAFFIC CALMING.dwg Mar 01, 2011 - 8:51am, LAST ACCESSIED BY: corderman



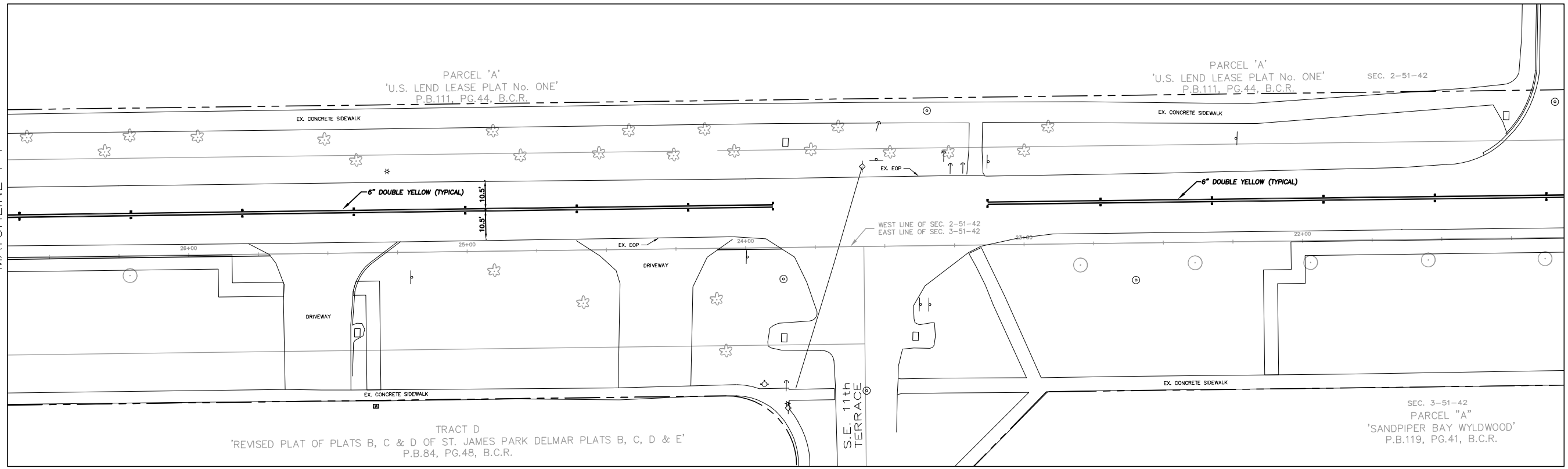
MATCHLINE H-H

MATCHLINE I-I



MATCHLINE I-I

MATCHLINE J-J



CHEN AND ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
500 WEST CYPRESS CREEK ROAD, SUITE 410
FORT LAUDERDALE, FLORIDA 33309
PHONE: (954)730-0707 FAX: (954)730-2030
STATE OF FLORIDA ENGINEERING BUSINESS LICENSE NO. 4593

DATE	REVISIONS

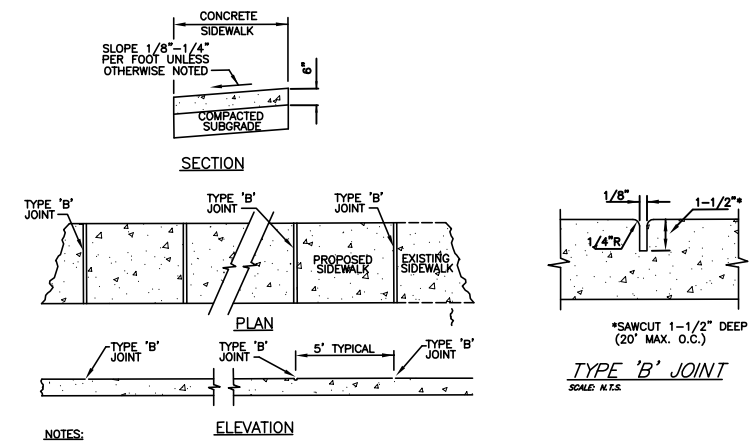
DATE FEBRUARY 2011
SCALE 1"=20'
DWNG. BY JB
CHECKED BY QB
FLORIDA REG. # 61612



CITY OF DANIA BEACH
SE 5TH AVENUE
TRAFFIC CALMING PROJECT

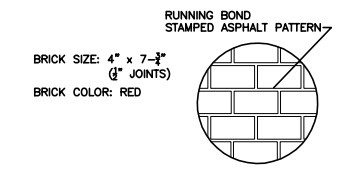
PROPOSED IMPROVEMENTS
SIGNING & MARKING
SM-9 & SM-10

SHEET NO. 7
OF 10 SHEETS
DANIA PROJECT NO.

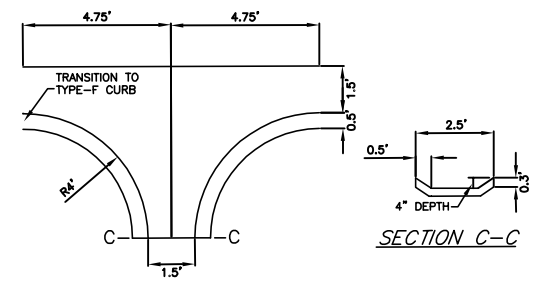


1 SIDEWALK DETAILS
SCALE: N.T.S.

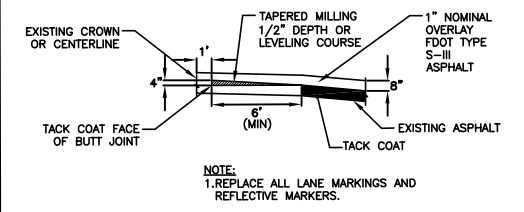
NOTES:
 1. SIDEWALK SHALL BE 6" THICK.
 2. SUBGRADE BELOW SIDEWALK SHALL BE COMPACTED TO 98% OF MAX. DENSITY PER A.A.S.H.T.O. T-180.
 3. CONCRETE STRENGTH SHALL BE MIN. 3000 PSI @ 28 DAYS.
 4. SIDEWALK SLOPES SHALL MEET THE REQUIREMENTS OF THE "AMERICAN WITH DISABILITY ACT., LATEST REVISION.



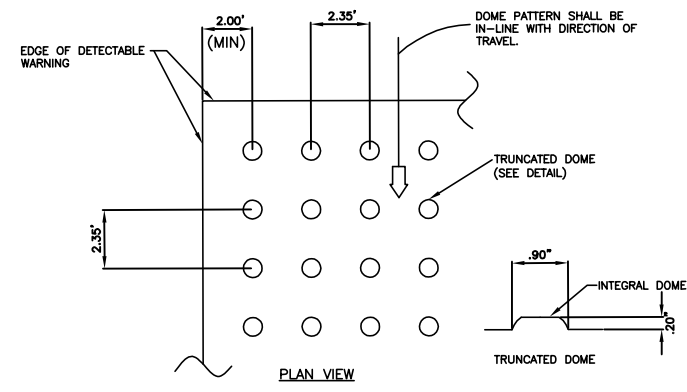
2 STAMPED ASPHALT COURSING DETAIL
SCALE: N.T.S.



3 FLUME DETAIL
SCALE: N.T.S.



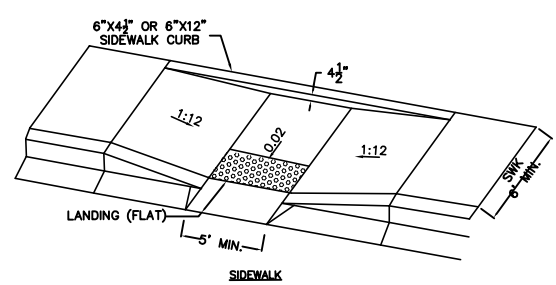
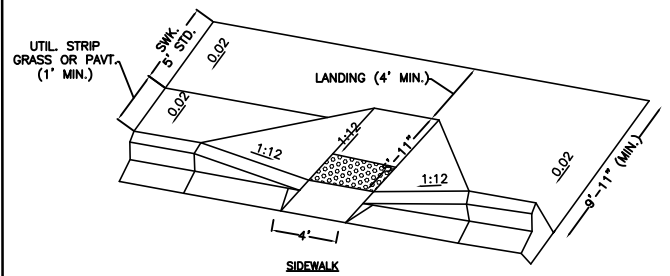
6 ASPHALT TAPER DETAIL
SCALE: N.T.S.



4 RAMP DETECTABLE WARNINGS
SCALE: N.T.S.

CURB RAMP DETECTABLE WARNING

- IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, THEN THE WALK SHALL HAVE TRANSITION SLOPES TO THE RAMP; THE MAXIMUM SLOPE OF THE TRANSITIONS SHALL BE 1:12. RAMP WITH CURB RETURNS MAY BE USED AT LOCATIONS WHERE OTHER IMPROVEMENTS PROVIDE GUIDANCE AWAY FROM THAT PORTION OF CURB PERPENDICULAR TO THE SIDEWALK; IMPROVEMENTS FOR GUIDANCE ARE NOT REQUIRED AT CURB RAMPS FOR LANE PEDESTRIAN TRAFFIC.
- CURB RAMP DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" FROM THE BACK OF CURB. DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED BY TEXTURING A TRUNCATED DOME PATTERN IN CONFORMANCE WITH U.S. DEPARTMENT OF JUSTICE A.D.A. STANDARDS FOR ACCESSIBLE DESIGN, A.D.A. ACCESSIBILITY GUIDELINES, SECTION 4.29.2, (DETAIL SHOWN ABOVE). TRANSITION SLOPES ARE NOT TO HAVE DETECTABLE WARNINGS.
- WHERE A CURB RAMP IS CONSTRUCTED WITHIN EXISTING CURB, CURB AND GUTTER AND/OR SIDEWALK, THE EXISTING CURB OR CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE CURB TRANSITIONS OR TO THE EXTENT THAT NO REMAINING SECTION OF CURB OR CURB AND GUTTER IS LESS THAN 5' LONG.
- THE EXISTING SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE TRANSITION SLOPE OR WALK AROUND OR TO THE EXTENT THAT NO REMAINING SECTION OF SIDEWALK IS LESS THAN 5' LONG.
- THE COLOR REQUIREMENT IS TO PROVIDE A DARK-ON-LIGHT VISUAL CONTRAST BETWEEN THE DETECTABLE WARNING SURFACE AND THE ADJACENT WALKING SURFACE. WHERE ADJACENT WALKING SURFACES ARE COLORED OR ARE CONSTRUCTED WITH MATERIALS OTHER THAN STANDARD CLASS I PORTLAND CEMENT CONCRETE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS, THE FINISHED PRODUCT MUST CONTAIN DETECTABLE WARNING SURFACE COLORS OR MATERIALS THAT PROVIDE THE NECESSARY CONTRAST, EITHER DARK-ON-LIGHT OR LIGHT-ON-DARK.



5 DIMENSIONAL FEATURES FOR PUBLIC SIDEWALK CURB RAMPS WHERE RAMP AND LANDING DEPTH ARE RESTRICTED BY RIGHT OF WAY
SCALE: N.T.S.

CHEN AND ASSOCIATES
 CIVIL AND ENVIRONMENTAL ENGINEERS
 500 WEST CYPRESS CREEK ROAD, SUITE 410
 FORT LAUDERDALE, FLORIDA 33309
 PHONE: (954)730-0707 FAX: (954)730-2030
 STATE OF FLORIDA ENGINEERING BUSINESS LICENSE NO. 4593

DATE	REVISIONS

DATE: FEBRUARY 2011
 SCALE: 1"=20'
 DWNG. BY: JB
 CHECKED BY: OB
 FLORIDA REG. # 61612

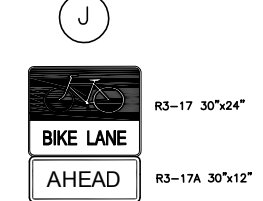
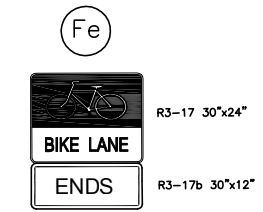
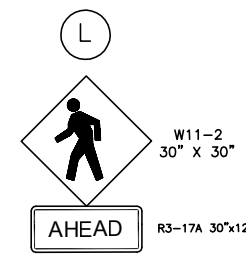
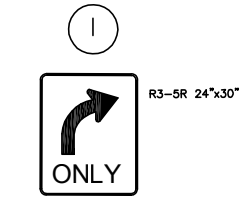
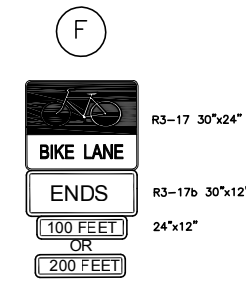
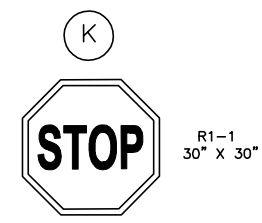
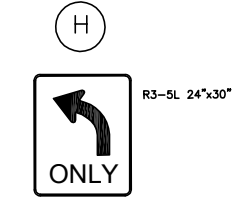
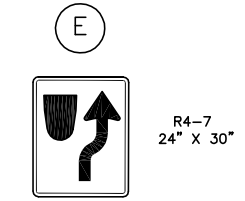
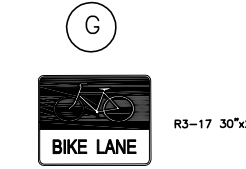
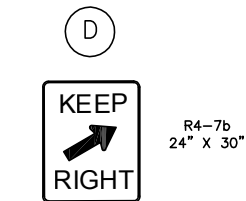
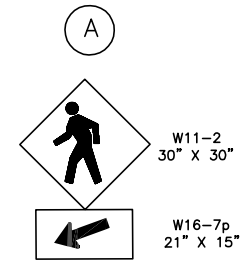


CITY OF DANIA BEACH
 SE 5TH AVENUE
 TRAFFIC CALMING PROJECT

CONSTRUCTION DETAILS
 CD-1

SHEET NO. 9
 OF 10 SHEETS
 DANIA PROJECT NO.

SIGN DETAIL



NOTES

1. PLACEMENT OF ADVANCE SIGNAGE IS DEPENDENT ON SITE CONDITIONS, INCLUDING EXISTING SIGNAGE, AND SHALL PROVIDE SUFFICIENT ADVANCE WARNING TO THE DRIVER.
2. SIGNS SHALL NOT OVERHANG SIDEWALK OR CURB AND GUTTER IF RIGHT OF WAY IS AVAILABLE.

*BICYCLE LANE NOTE:

1. CONTRACTOR TO FOLLOW FDOT INDEX 17346. RECOMMENDED SPACING OF SYMBOLS: IMMEDIATELY AFTER INTERSECTIONS AND MAJOR DRIVEWAYS AND AT A MAXIMUM SPACING OF 600 FEET FOR URBAN SECTIONS AND 1320 FEET FOR RURAL SECTIONS.
2. RAISED PAVEMENT MARKINGS AND RAISED BARRIERS CAN CAUSE STEERING DIFFICULTIES AND SHOULD NOT BE USED TO DELINEATE BICYCLE LANES. ALL PAVEMENT MARKINGS AND PAVEMENT MESSAGES SHALL BE WHITE.

THE METHODS USED FOR REMOVING EXISTING PAVEMENT MARKINGS SHALL BE BY SAND OR WATER BLASTING PER BROWARD COUNTY TRAFFIC ENGINEERING STANDARD.

ALL PAVEMENT MARKINGS AND SIGNING SHALL CONFORM TO BROWARD COUNTY TRAFFIC ENGINEERING STANDARD (CURRENT EDITION).

ALL PAVEMENT MARKINGS AND SIGNING DAMAGE DURING CONSTRUCTION, SHALL BE RESTORED TO BROWARD COUNTY TRAFFIC ENGINEERING STANDARD (CURRENT EDITION).

DATE	REVISIONS
12/08	BCTED REV.

DATE FEBRUARY 2011
 SCALE 1"=20'
 DWNG. BY JB
 CHECKED BY QB
 FLORIDA REG. # 61612



CITY OF DANIA BEACH
 SE 5TH AVENUE
 TRAFFIC CALMING PROJECT
 CONSTRUCTION DETAILS
 CD-2

SHEET NO. 10
 OF 10 SHEETS
 DANIA PROJECT NO.

CHEN AND ASSOCIATES
 CIVIL AND ENVIRONMENTAL ENGINEERS
 500 WEST CYPRESS CREEK ROAD, SUITE 410
 FORT LAUDERDALE, FLORIDA 33309
 PHONE: (954)730-0707 FAX: (954)730-2030
 STATE OF FLORIDA ENGINEERING BUSINESS LICENSE NO.4593