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Tomas P. Regalado

Chairman / D1 Commissioner

Wifredo (Willy) Gort

D2 Commissioner

Marc Sarnoff

D3 Commissioner

Frank Carollo

D4 Commissioner

Francis Suarez

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Keon Hardemon

City Manager

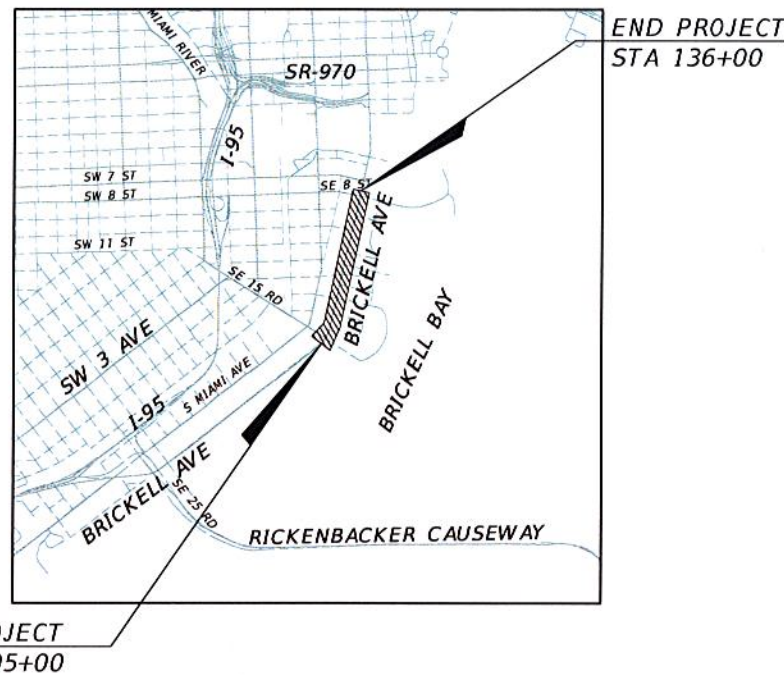
Daniel J. Alfonso

# CITY OF MIAMI

## CAPITAL IMPROVEMENTS PROGRAM

JEOVANNY RODRIGUEZ, P.E., DIRECTOR

BRICKELL AVENUE PROJECT - SECTION ONE  
FROM SE 15 ROAD TO SE 8 STREET  
PROJECT No. B-30874



BEGIN PROJECT  
STA 105+00

END PROJECT  
STA 136+00

LOCATION MAP  
SCALE :1" = 4,000'

### INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	TYPICAL SECTION AND QUANTITIES
4-5	DETAILS
6-11	ROADWAY PLANS
12	TRAFFIC CONTROL GENERAL NOTES
13-15	STORM WATER POLLUTION PREVENTION PLAN

ROADWAY SHOP DRAWINGS  
TO BE SUBMITTED TO:

CLAUDIA P. DIAZ, P.E.  
201 ALHAMBRA CIRCLE SUITE 900  
CORAL GABLES, FL 33134

PLANS PREPARED BY:

### T.Y. LIN INTERNATIONAL

201 ALHAMBRA CIRCLE SUITE 900  
CORAL GABLES, FLORIDA 33134  
PHONE: (305) 567-1888  
FAX: (305) 567-1771  
EB00002017

FINAL SUBMITTAL SECTION ONE  
NOVEMBER 5, 2015



NOTE: THE SCALE OF THESE PLANS MAY HAVE  
CHANGED DUE TO REPRODUCTION

ROADWAY PLANS  
ENGINEER OF RECORD: CLAUDIA P. DIAZ, P.E.

P.E. NO.: 77074

GOVERNING STANDARDS AND SPECIFICATIONS:

- FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED 2015, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2015, AS AMENDED BY CONTRACT DOCUMENTS.

- CITY OF MIAMI ENGINEERING STANDARDS FOR DESIGN AND CONSTRUCTION DATED DECEMBER 2010.



CITY OF MIAMI PROJECT MANAGER: Ivelisse Rodriguez

CITY OF MIAMI CONSTRUCTION MANAGER: Orlando J. Diez

SHEET NO.

1

100% PLANS SECTION ONE



**GENERAL NOTES:**

1. THE CONTRACTOR MUST HAND EXCAVATE AROUND AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE EXPECTED OR SUSPECTED IN ORDER TO AVOID DAMAGES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS AND COSTS TO CORRECT DAMAGES RESULTING FROM FAILURE TO TAKE ALL NECESSARY PRECAUTIONS INCLUDING LOCATING, MARKING AND CAREFUL EXCAVATION, AND SHOULD BE INCIDENTAL TO THE COST OF THE PROJECT.
2. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION.
3. IT IS THE OBLIGATION OF THE BIDDER OR THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION AND SATISFY HIMSELF FULLY OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS BID. FAILURE TO DO SO, WILL NOT RELIEVE HIM OF HIS OBLIGATION TO COMPLETE THE WORK FULLY AND ACCEPTABLE TO THE ENGINEER AND THE OWNER FOR THE CONSIDERATION SET FORTH IN HIS BID.
4. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM PRINTS FOR CONSTRUCTION PURPOSES.
5. BASELINE OF CONSTRUCTION SHALL BE AS SHOWN ON THE PLANS:  
STA 62+30.00 N:515947.64 E:918512.37 & STA 103+80 N:518477.49 E:921802.10
6. PROPERTY NUMBERS SHOWN IN THE PLANS HAVE BEEN PROVIDED BY THE CITY OF MIAMI.
7. IT IS THE INTENT OF THESE PLANS TO BE IN COMPLIANCE WITH APPLICABLE CODES OF AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
8. THE CONTRACTOR SHALL USE CITY OF MIAMI STANDARD FOR DESIGN AND CONSTRUCTION (2010) AND THE FDOT STANDARD INDEX AND SPECIFICATIONS (2015) UNLESS OTHERWISE SPECIFIED.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, UTILITIES AND UTILITY MARKERS, WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURES, PAVEMENT, TREES, UTILITIES, UTILITY MARKERS OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH ARE TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
10. CONTRACTOR SHALL RESET OR REPLACE EXISTING METER BOXES, MANHOLE, VALVE AND PULL BOXES AS REQUIRED FOR SIDEWALK RECONSTRUCTION. INSTALLATIONS OF NEW PULL BOXES SHALL BE PERFORMED BY QUALIFIED ELECTRICAL CONTRACTOR. WHEN REPLACING AN EXISTING PULL BOX, THE CONTRACTOR SHALL ADJUST CONDUITS AND CABLES TO FIT THE NEW PULL BOX ELEVATION. COST OF ADJUSTMENTS AND NEW PULL BOXES/METER BOXES IS INCIDENTAL TO TOTAL PROJECT COST.
11. CONFLICTS WITH EXISTING TREES WILL BE FIELD ADJUSTED AS REQUIRED.

**ENVIRONMENTAL NOTES**

1. ANY MATERIAL TO BE STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES.
2. THE CONTRACTOR SHALL REVIEW ENVIRONMENTAL REQUIREMENTS OF ANY PROPOSED STAGING AREAS WITH THE PROJECT ENGINEER (IVELISSE RODRIGUEZ) AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO USE.
3. NO STAGING OR OTHER ACTIVITIES FOR THIS PROJECT WILL BE ALLOWED WITHIN GIBSON PARK OR OTHER ENVIRONMENTALLY SENSITIVE AREAS.
4. CONTRACTOR SHALL NOT STAGE OR OPERATE EQUIPMENT WITHIN THE DRIPLINE OF TREES.
5. CONTRACTOR TO PROVIDE A CERTIFIED ARBORIST WHO WILL DETERMINE ANY ROOT PRUNING AND ANY OTHER TRIMMING ACTIVITIES. COST TO BE INCIDENTAL TO CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.


**UTILITY COMPANY CONTACT LIST:**

ATT	STEVE MASSIE	305-222-8745
COMCAST CABLE	LEONARD	954-447-8405
MIAMI-DADE COUNTY PUBLIC WORKS	MAXWELL-NEWBOLD	305-592-8925
FIBERLIGHT LLC	AURELIO DEL VALLE	EXT.258
FDOT 6	CHRIS PANCIONE	954-596-2559
FLORIDA POWER AND LIGHT-DADE	THOMAS MILLER	305-491-4391
FLORIDA POWER AND LIGHT-FIBERNET	TRACY STERN	800-868-9554
FLORIDA POWER AND LIGHT-TRANSMISSION	DANNY HASKETT	305-552-2931
GLOBAL CROSSING	SEYED HAJASSADOLLAH	305-228-5290
MIAMI-DADE ENTERPRISE TECHNOLOGY	JIM VANVALKENBURGH	585-255-1030
LEVEL 3 COMMUNICATIONS	JUAN AGUIRRE	305-592-8925
MCI	JUDY HENRY	305-592-8925
MIAMI-DADE WATER AND SEWER	INVESTIGATIONS	972-729-6016
TECO PEOPLE GAS SOUTH FLORIDA	PATRICK CHONG	786-268-6255
QWEST COMMUNICATIONS	YVONNE GOLDMAN	954-455-0824
SPRINT NEXTEL	MIKE FITZGERALD	813-630-2605
	MARK CLADWELL	305-287-2074

**CONSTRUCTION NOTES:**

1. ALL WORK TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF AND ACCEPTABLE TO CITY OF MIAMI PUBLIC WORKS DEPARTMENT, MIAMI-DADE COUNTY R.E.R (D.E.R.M) AND THE COUNTY PUBLIC WORKS TRAFFIC CONTROL SECTION.
2. CONTRACTOR SHALL PROVIDE HIS OWN LINE AND GRADE FROM HORIZONTAL AND VERTICAL CONTROL. CONTRACTOR SHALL ALSO PROVIDE "AS BUILT" GRADES CERTIFIED BY A REGISTERED LAND SURVEYOR AS REQUIRED BY THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT.
3. BID PRICES SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS COMPLETE IN PLACE, TESTED, AND ACCEPTED BY THE ENGINEER.
4. THE CONTRACTOR SHALL USE SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK.
5. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING INLETS CLEAN OF DEBRIS AND ANY OTHER MATERIALS USED DURING CONSTRUCTION. THIS SHALL BE DONE DURING THE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER AND FOLLOWING THE DFOT EROSION CONTROL MANUAL. ALL EXISTING LINES AND STRUCTURES SHALL BE CLEANED PRIOR TO FINAL INSPECTION AND ACCEPTANCE.
6. CONTRACTOR SHALL CONTACT SUNSHINE AT (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH MIAMI DADE COUNTY'S WHITE LINE ORDINANCE AND UTILIZE LOW IMPACT UTILITY MARKING PAINT.
7. EXISTING TREES SHALL BE REMOVED ONLY IF REQUIRED FOR CONSTRUCTION. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE. THE CONTRACTOR IS ADVISED THAT A TREE PERMIT IS REQUIRED FOR TREE PLANTING, REMOVAL AND RELOCATION. CONTRACTOR SHALL NOTIFY THE CITY OF MIAMI PRIOR TO REMOVING AND RELOCATING ANY TREES. TREE TRIMMING AND REMOVAL PERMITS ON MIAMI DADE TRANSIT AGENCY PROPERTY SHALL BE ADMINISTERED BY THE CITY'S NET OFFICE.
8. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN THE PROJECT SPECIFICATION (WHERE APPLICABLE).
9. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
10. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF PROPERLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
11. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
12. TEMPORARY PATCH MATERIAL SHALL BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT.
13. ALL EXISTING DRAINAGE STRUCTURES AND PIPES ARE TO REMAIN AND TO BE PROTECTED UNLESS OTHERWISE SPECIFIED AND APPROVED.
14. CONTRACT SHALL INCLUDE IN THE BID PRICE FOR CLEARING AND GRUBBING OF THE FOLLOWING ITEMS: CONCRETE DRIVEWAY PADS, ASPHALTIC DRIVEWAY PADS, SIDEWALK FLAGS TO BE REPLACED AND CURB RAMPS.

REVISIONS		
DATE	BY	DESCRIPTION


  
 T.Y. LYNCH, PROFESSIONAL ENGINEER

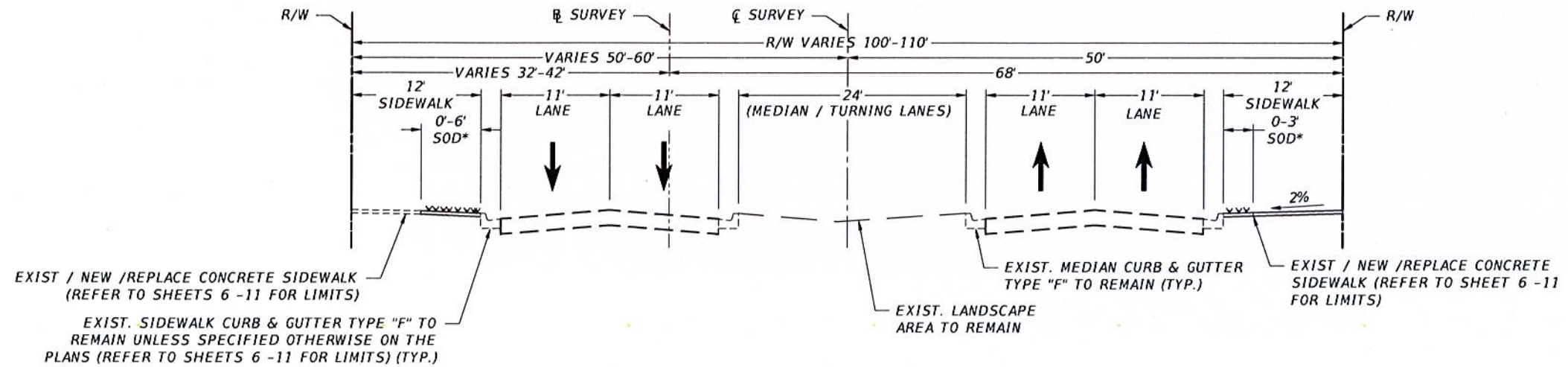

**CITY OF MIAMI**  
 CAPITAL IMPROVEMENTS PROGRAM  
 444 S.W. 2ND AVENUE, 8TH FLOOR  
 MIAMI, FLORIDA 33130  
 (305) 416-1213 FAX (305) 416-1253

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
Brickell Avenue Project SECTION ONE SE 15 ROAD TO SE 8 STREET	B-30874

GENERAL NOTES
2

100% PLANS SECTION ONE





**BRICKELL AVENUE TYPICAL SECTION**  
FROM SE 15 ROAD TO SE 8 STREET  
N.T.S.

**NOTES**

\* STABILIZED SUBGRADE OF EXISTING SOD AREA AT LOCATIONS WHERE SIDEWALK WILL BE WIDEN.

**SIDE STREETS M&R:**

- MILL EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH)
- RESURFACING WITH FRICTION COURSE FC-9.5 (TRAFFIC C) (1") (RUBBER)

**ROADWAY QUANTITIES**

**PAY ITEM NOTE:**

- 110-1-1 ALL DEMOLITION SHALL BE PAID UNDER CLEARING AND GRUBBING. CONTRACT SHALL INCLUDE IN THE BID PRICE FOR CLEARING AND GRUBBING OF THE FOLLOWING ITEMS: CONCRETE DRIVEWAY PADS, ASPHALTIC DRIVEWAY PADS, SIDEWALK FLAGS TO BE REPLACED AND CURB RAMPS.
- 520-1-10 INCLUDE REINFORCING STEEL COST.
- 350-3-7 CONCRETE REPLACEMENT (CROSSWALK) INCLUDE REMOVAL OF EXISTING CONCRETE/ASPHALT BASE TO ACCOMMODATE THE NEW 9" CONCRETE SLAB. CONTRACTOR SHALL MAINTAIN PATTERN CROSSWALK FOR A DURATION OF 5 YEARS AFTER.

PAY ITEM	PAY ITEM DESCRIPTION	UNIT	PLAN QUANTITY	FINAL QUANTITY
101-1	Mobilization	LS	1	
102-1	Maintenance of Traffic	LS	1	
110-1-1	Clearing and Grubbing	LS	1	
110-15-1	Arborist Work, Tree Trimming (root prune)	EA	1	
327-70-19	Milling Existing Asphalt Pavement (1" Average)	SY	540	
337-7-42	Friction Course Asphaltic Concrete, Traffic C, FC-9.5 (110lbs/sy-in.1" min.)	TN	30	
520-1-10	Concrete Curb Type "F"	LF	750	
522-1	Sidewalk Concrete, 4" Thick	SY	2,040	
522-2	Sidewalk Concrete, 6" Thick	SY	83	
527-2	Detectable Warnings	SF	114	
570-1-2	Performance Turf, Sod (sod restoration)	SY	73	
630-2-12	Conduit, F&I Directional Bore	LF	30	
635-2-11	Pull & Splice Box	EA	2	
660-2-106	Loop Assembly (Type F)	AS	5	
735-74-22	Pressure Clean concrete (sidewalk and lanes)	SY	97	
350-3-7	Plain Cement Concrete Pavement 9" (Include Removal of Exist. Concrete Pavement)	SY	214	
	Root Barrier	EA	19	
	Type F-3 Catch Basin (including type removal of existing)	EA	1	

**SIGNING & PAVEMENT MARKING QUANTITIES**

PAY ITEM	PAY ITEM DESCRIPTION	UNIT	PLAN QUANTITY	FINAL QUANTITY
706-3	Retro-Reflective Pavement Markers (Y/Y)	EA	431	
706-3	Retro-Reflective Pavement Markers (W/R)	EA	5	
711-111-23	Thermoplastic 12" Solid Traffic Stripe (White)	LF	534	
711-111-25	Thermoplastic 24" Solid Traffic Stripe (White)	LF	128	
711-111-24	Thermoplastic 18" Solid Traffic Stripe (Yellow)	LF	9.5	
711-111-11	Thermoplastic 6" Solid Traffic Stripe (White)	NM	0.07	
711-111-11	Thermoplastic 6" Solid Traffic Stripe (Yellow)	NM	0.04	
630-11-290	Painted Pavement Markings - Island Nose (Yellow)	SF	417	



REVISIONS	
DATE	DESCRIPTION

FOR EOR  
1/5/15  
T-Y-LIN



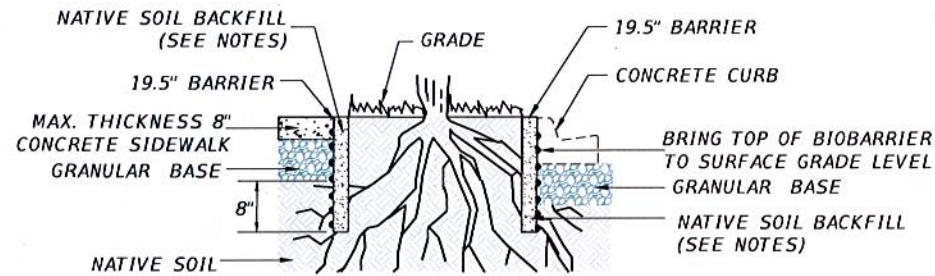
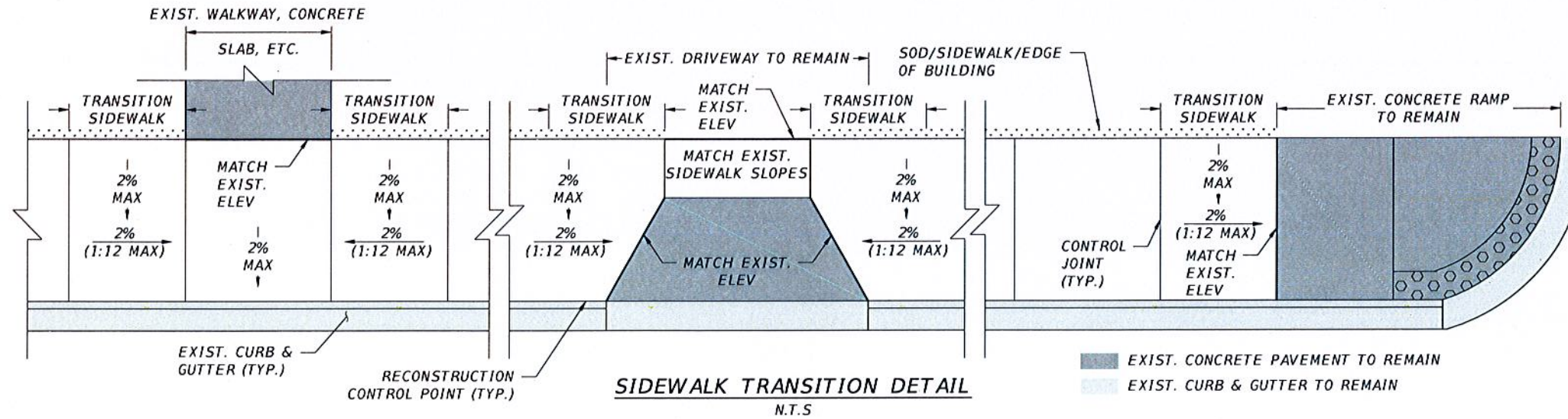
**CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM**  
PROJECT NAME: Brickell Avenue Project SECTION ONE SE 15 ROAD TO SE 8 STREET  
PROJECT No.: B-30874

**TYPICAL SECTION AND QUANTITIES**

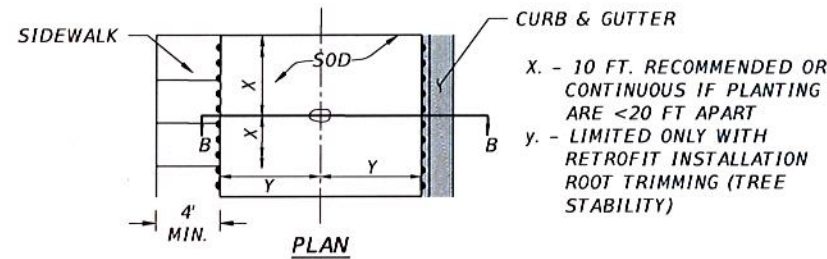
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100% PLANS SECTION ONE

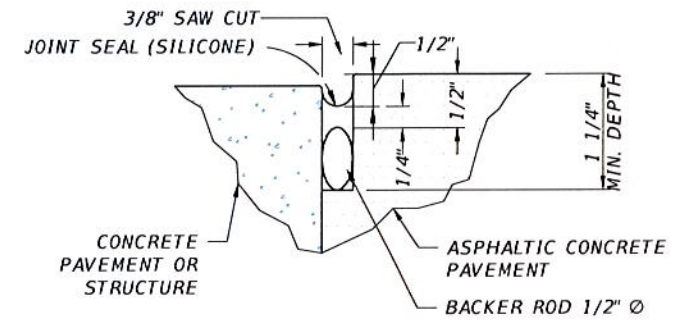




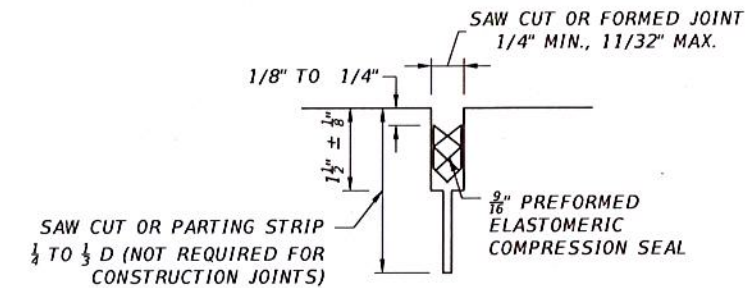
RETROFIT PLANTING  
SECTION B-B



ROOT CONTROL DETAIL  
N.T.S.



CONCRETE-ASPHALT JOINT DETAIL  
N.T.S.



CONCRETE-CONCRETE JOINT DETAILS  
N.T.S.

**ROOT CONTROL NOTES:**

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
2. DO NOT SCALE DRAWINGS
3. A FLORIDA STATE CERTIFIED ARBORIST APPOINTED BY THE CITY OF MIAMI SHALL BE CONTACTED BEFORE ANY CUTTING OF ROOTS
4. FOR MAXIMUM PROTECTION IN HIGH ORGANIC SOILS (>10%), WITH AGGRESSIVE ROOT SPECIES (ESPECIALLY A RETROFIT INSTALLATION AND/OR IN CLOSE PROXIMITY TO OLEFIN PLASTICS, SPRAY STAUATE TRENCH WALLS WITH LIQUID TRIFLURALIN. MIX OR FILL TRENCH WITH SAND OR GRAVEL
5. REPORT ALL DISCREPANCIES TO CONSULTANT PRIOR TO INSTALLATION
6. CONTRACTOR TO PROVIDE A MIN. OF 4 FEET (ADA) SIDEWALK WIDTH AT ALL ROOT CONTROL LOCATIONS

CLAUDIA P. DIAZ  
LICENSE  
No. 77074  
PROFESSIONAL ENGINEER  
1/5/15  
T-Y-LIN

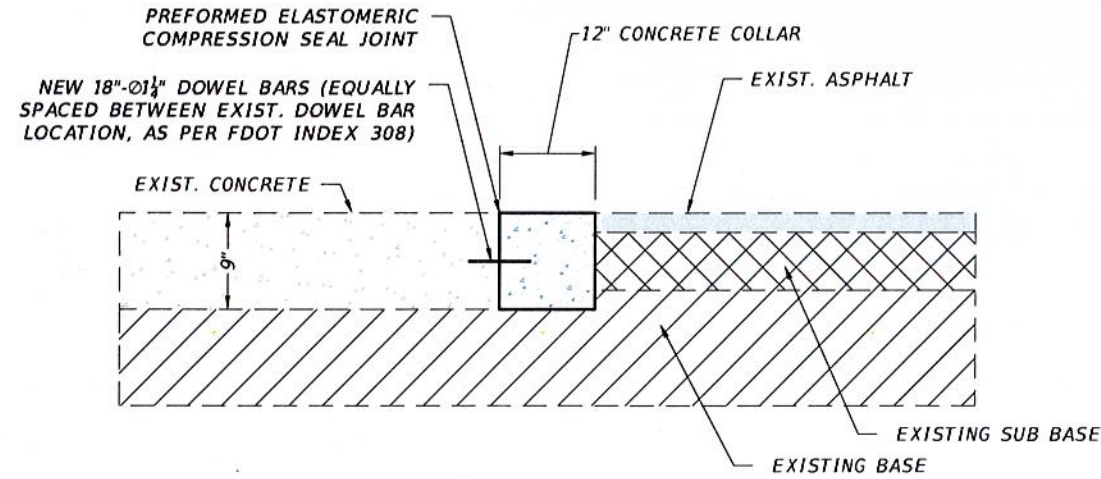
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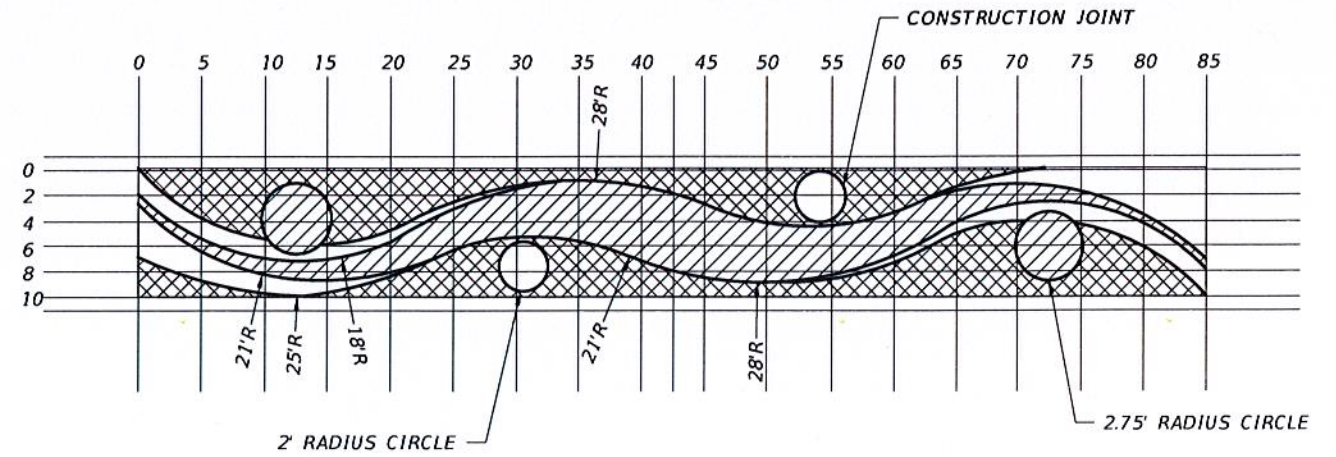
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DATE BY DESCRIPTION  
SHEET NO. 4

100% PLANS SECTION ONE

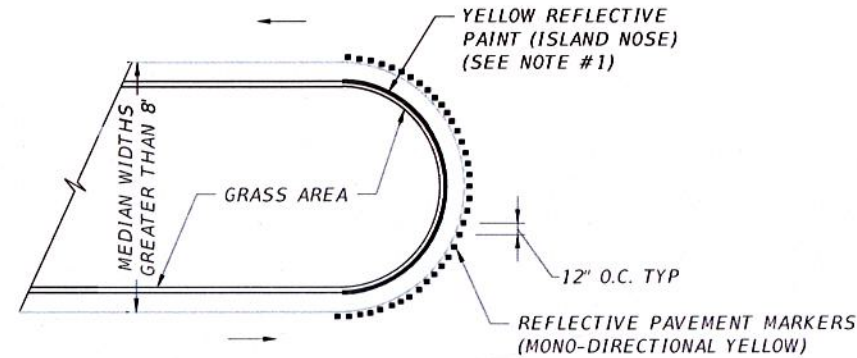
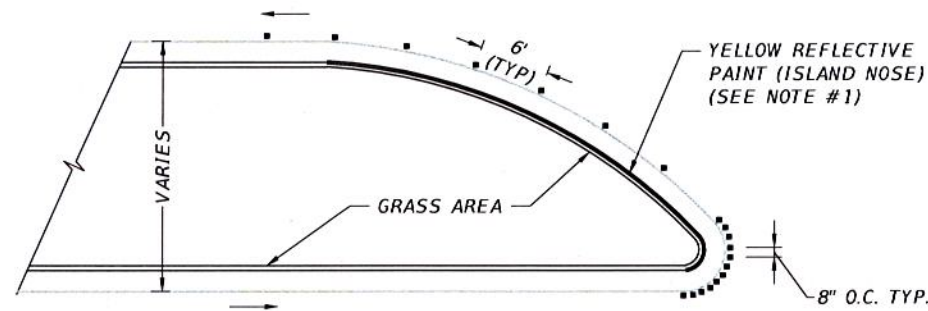




**CONCRETE COLLAR DETAIL**  
N.T.S



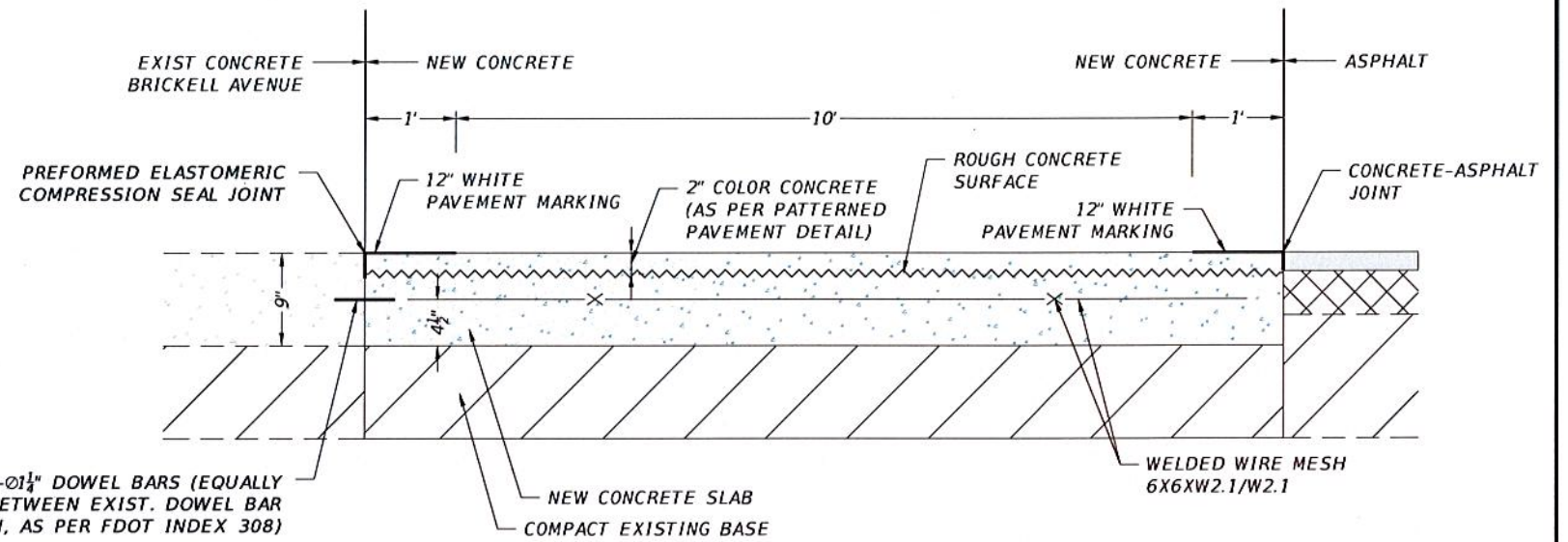
**PATTERNED PAVEMENT**  
N.T.S



**NOTE:**

- FURNISH AND INSTALL REFLECTIVE PAINT ON TWO SIDES OF CURB FOR THE LIMITS SHOWN IN THE ABOVE DETAILS.

**TYPICAL PLACEMENT OF REFLECTIVE PAVEMENT MARKERS**  
N.T.S



**DECORATIVE PEDESTRIAN CROSSWALK**  
N.T.S

**NOTES:**

- SAW CUT AND REMOVE EXISTING CONCRETE SLAB OR ASPHALT PAVEMENT.
- COMPACT EXISTING BASE.
- POUR COLOR CONCRETE TO MATCH PATTERNED PAVEMENT AS SHOWN ON THE GRID.
- BEFORE INSTALLATION, CONTRACTOR SHALL GET APPROVAL OF PATTERN LAYOUT AND COLORS FROM THE CITY OF MIAMI.
- PATTERN LAYOUT SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS.

CLAUDIA P. DIAZ  
Professional Engineer  
No. 77074  
T-Y-LIN



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**CITY OF MIAMI**  
CAPITAL IMPROVEMENTS PROGRAM

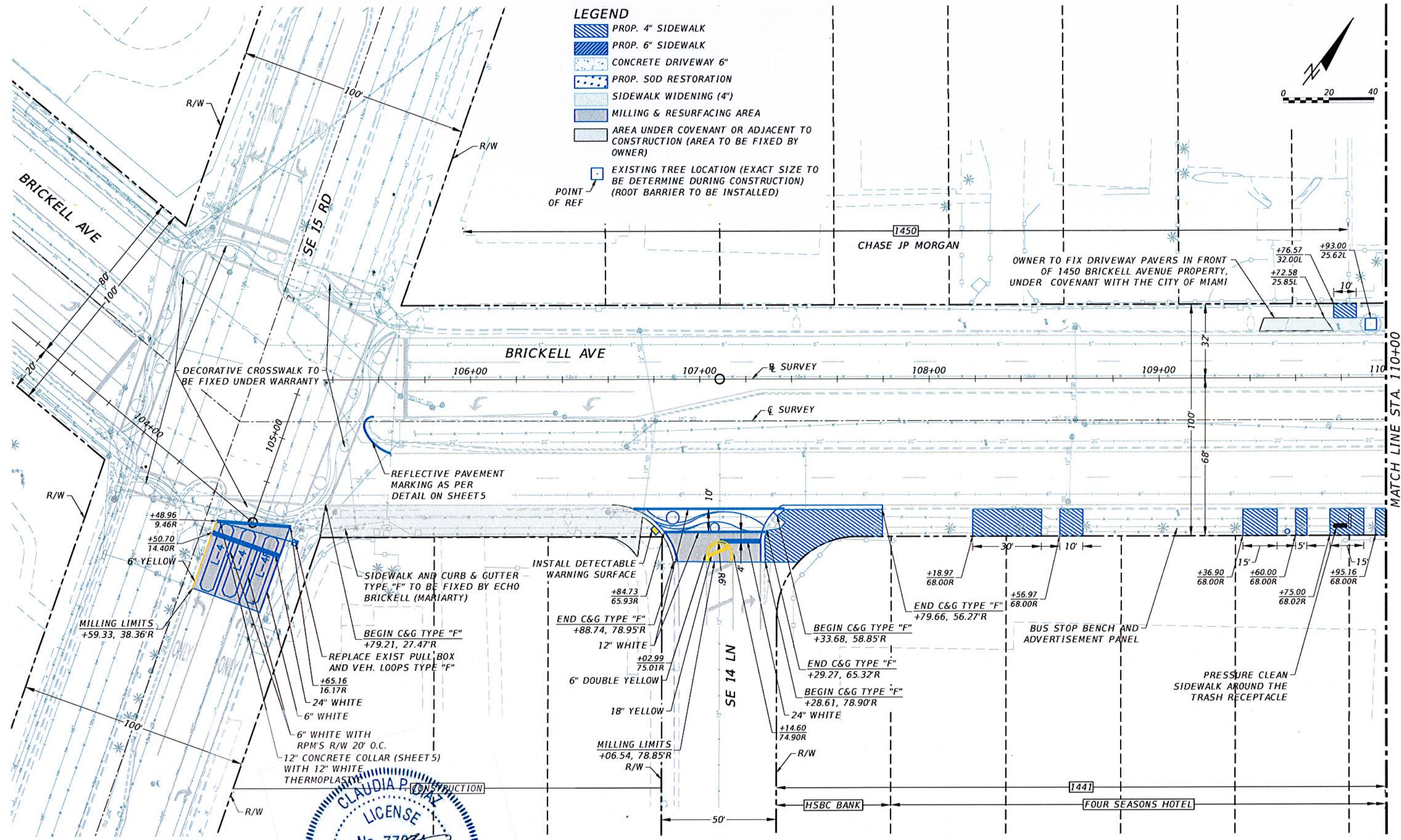
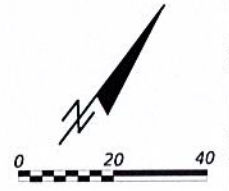
PROJECT NAME: Brickell Avenue Project SECTION ONE SE 15 ROAD TO SE 8 STREET  
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**DETAILS**

SHEET NO. 5



- LEGEND**
- PROP. 4" SIDEWALK
  - PROP. 6" SIDEWALK
  - CONCRETE DRIVEWAY 6"
  - PROP. SOD RESTORATION
  - SIDEWALK WIDENING (4")
  - MILLING & RESURFACING AREA
  - AREA UNDER COVENANT OR ADJACENT TO CONSTRUCTION (AREA TO BE FIXED BY OWNER)
  - EXISTING TREE LOCATION (EXACT SIZE TO BE DETERMINE DURING CONSTRUCTION) (ROOT BARRIER TO BE INSTALLED)
- POINT OF REF



MATCH LINE STA. 110+00

100% PLANS SECTION ONE

CLAUDIA P. DIAZ  
 LICENSE No. 77074  
 PROFESSIONAL ENGINEER  
 T-Y-LIN

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PROJECT NAME Brickell Avenue Project SECTION ONE SE 15 ROAD TO SE 8 STREET	PROJECT No.  B-30874

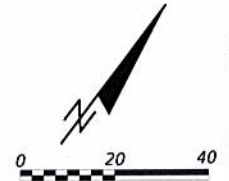
ROADWAY PLANS
SHEET NO.  6

REVISIONS		
DATE	BY	DESCRIPTION



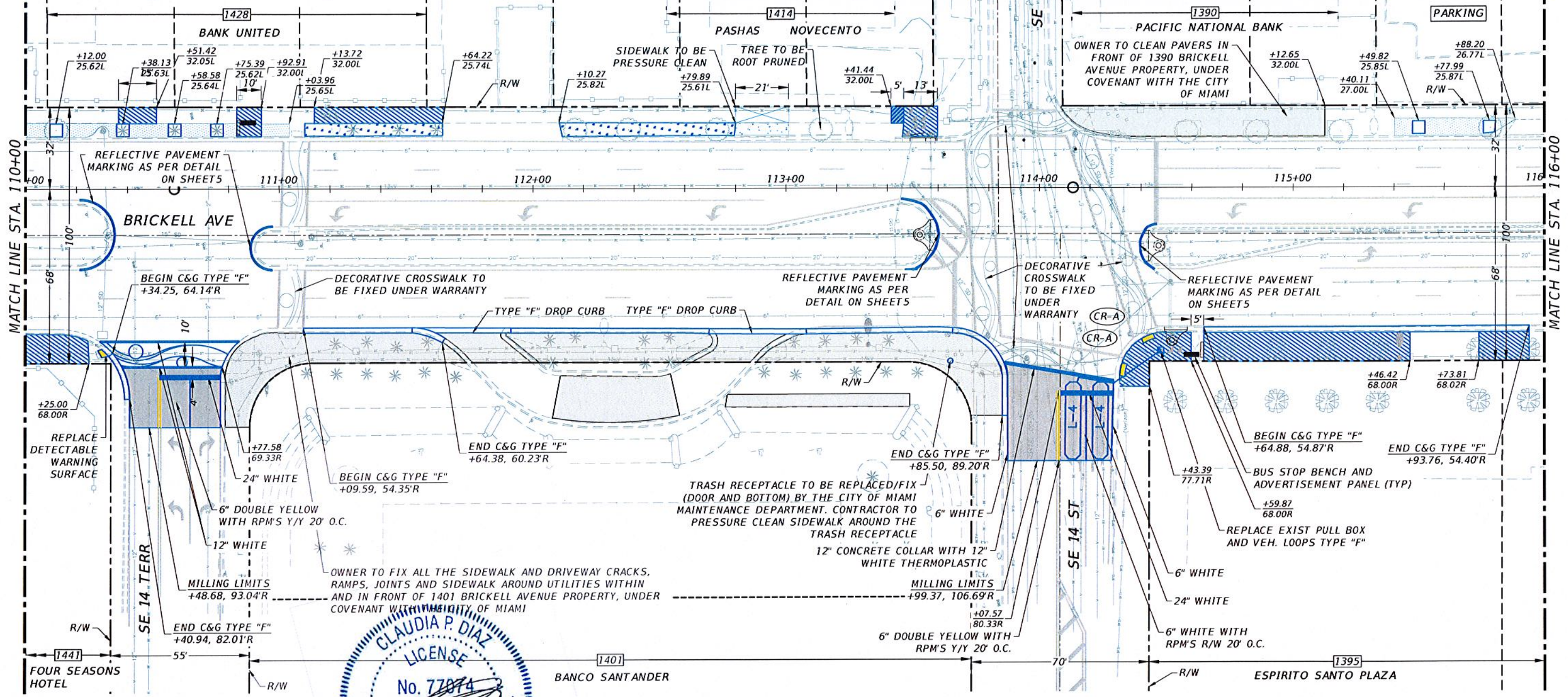
**LEGEND**

-  PROP. 4" SIDEWALK
  -  PROP. 6" SIDEWALK
  -  CONCRETE DRIVEWAY 6"
  -  PROP. SOD RESTORATION
  -  SIDEWALK WIDENING (4")
  -  MILLING & RESURFACING AREA
  -  AREA UNDER COVENANT OR ADJACENT TO CONSTRUCTION (AREA TO BE FIXED BY OWNER)
  -  EXISTING TREE LOCATION (EXACT SIZE TO BE DETERMINE DURING CONSTRUCTION) (ROOT BARRIER TO BE INSTALLED)
- POINT OF REF



MATCH LINE STA. 110+00

MATCH LINE STA. 116+00



  
**CLAUDIA P. DIAZ**  
 LICENSE No. 77074  
 PROFESSIONAL ENGINEER  
 STATE OF FLORIDA

REVISIONS		
DATE	BY	DESCRIPTION

EOR: **T-Y-LIN INTERNATIONAL**  
 11/5/15



**CITY OF MIAMI**  
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




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Brickell Avenue Project SECTION ONE SE 15 ROAD TO SE 8 STREET	B-30874

**ROADWAY PLANS**  
 SHEET NO. **7**

100% PLANS SECTION ONE

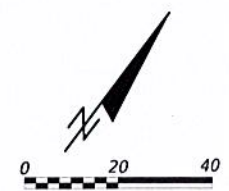


**LEGEND**

-  PROP. 4" SIDEWALK
-  PROP. 6" SIDEWALK
-  CONCRETE DRIVEWAY 6"
-  PROP. SOD RESTORATION
-  SIDEWALK WIDENING (4")
-  MILLING & RESURFACING AREA
-  AREA UNDER COVENANT OR ADJACENT TO CONSTRUCTION (AREA TO BE FIXED BY OWNER)

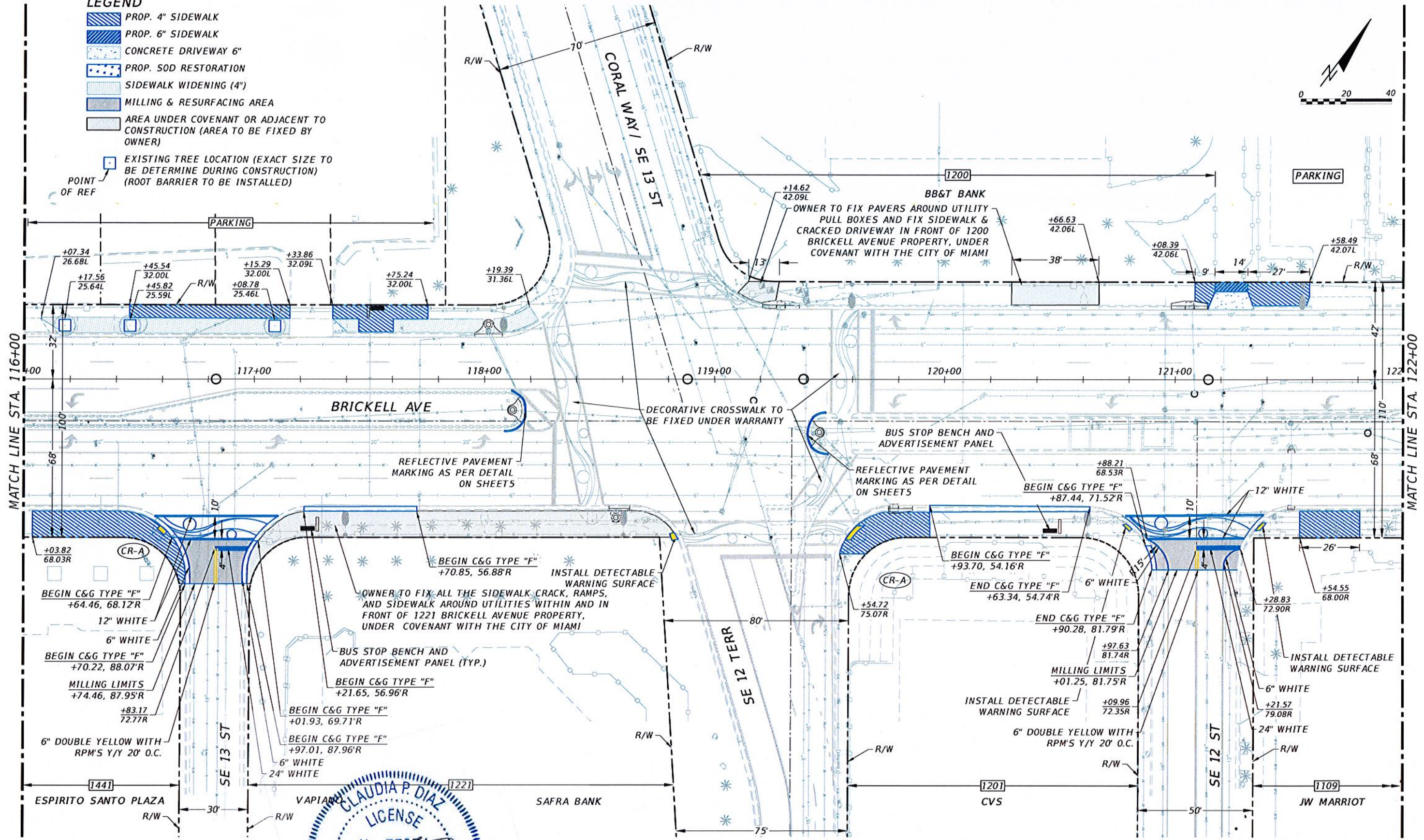
EXISTING TREE LOCATION (EXACT SIZE TO BE DETERMINE DURING CONSTRUCTION) (ROOT BARRIER TO BE INSTALLED)

POINT OF REF



MATCH LINE STA. 116+00

MATCH LINE STA. 122+00



  
**CLAUDIA P. DIAZ**  
 LICENSE No. 77074  
 PROFESSIONAL ENGINEER  
 T-Y-LIN

REVISIONS		
DATE	BY	DESCRIPTION

EOR  
11/5/15



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 MIAMI, FLORIDA 33130  
 (305) 416-1213 FAX (305) 416-1253

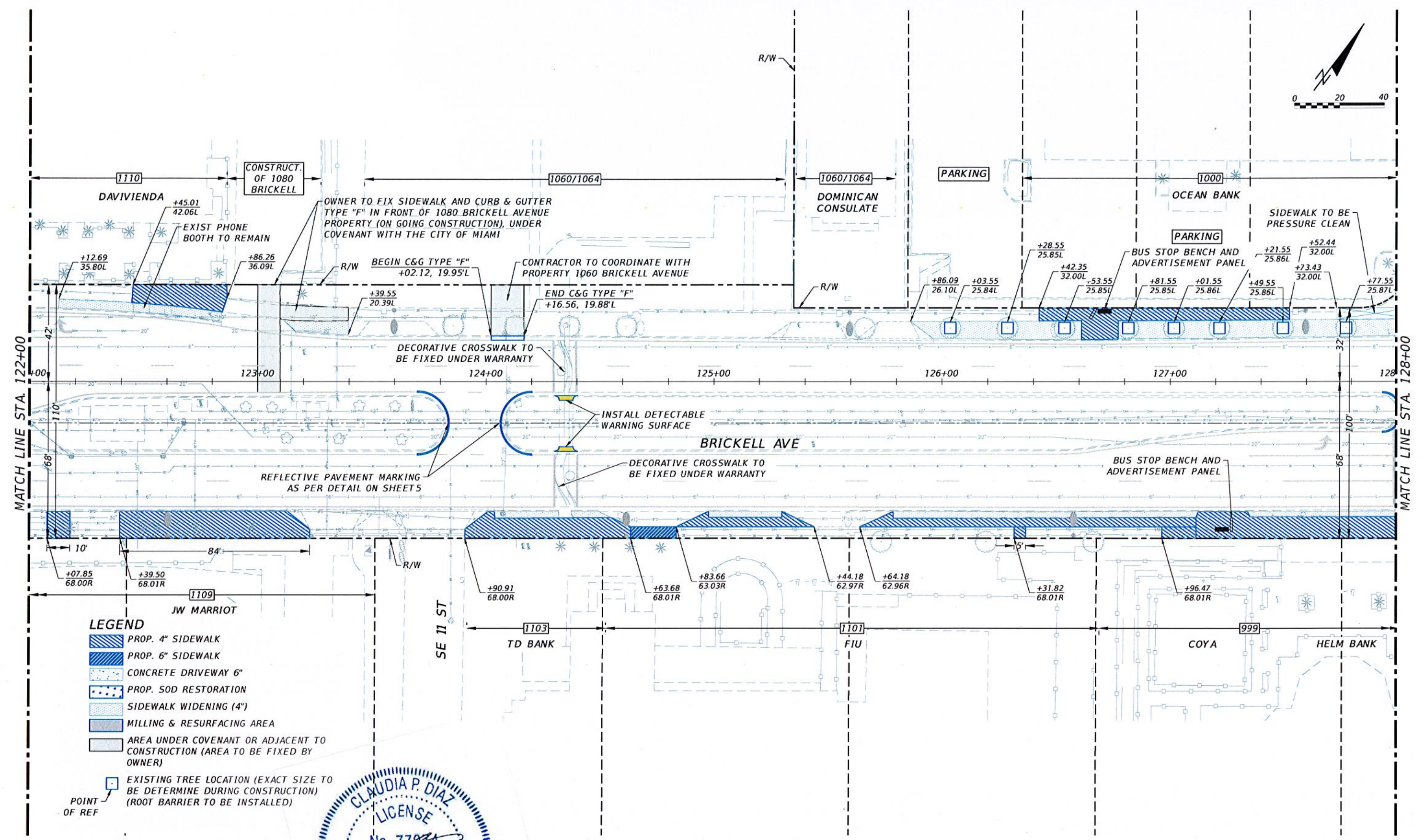
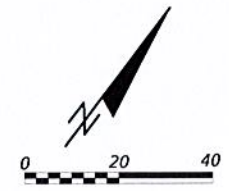
CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
Brickell Avenue Project SECTION ONE SE 15 ROAD TO SE 8 STREET	B-30874

**ROADWAY PLANS**

SHEET NO.  
**8**

100% PLANS SECTION ONE





- LEGEND**
- PROP. 4" SIDEWALK
  - PROP. 6" SIDEWALK
  - CONCRETE DRIVEWAY 6"
  - PROP. SOD RESTORATION
  - SIDEWALK WIDENING (4")
  - MILLING & RESURFACING AREA
  - AREA UNDER COVENANT OR ADJACENT TO CONSTRUCTION (AREA TO BE FIXED BY OWNER)
  - EXISTING TREE LOCATION (EXACT SIZE TO BE DETERMINE DURING CONSTRUCTION) (ROOT BARRIER TO BE INSTALLED)
  - POINT OF REF

CLAUDIA P. DIAZ  
 LICENSE  
 No. 77074  
 PROFESSIONAL ENGINEER  
 T-Y-LIN

REVISIONS	
DATE	DESCRIPTION

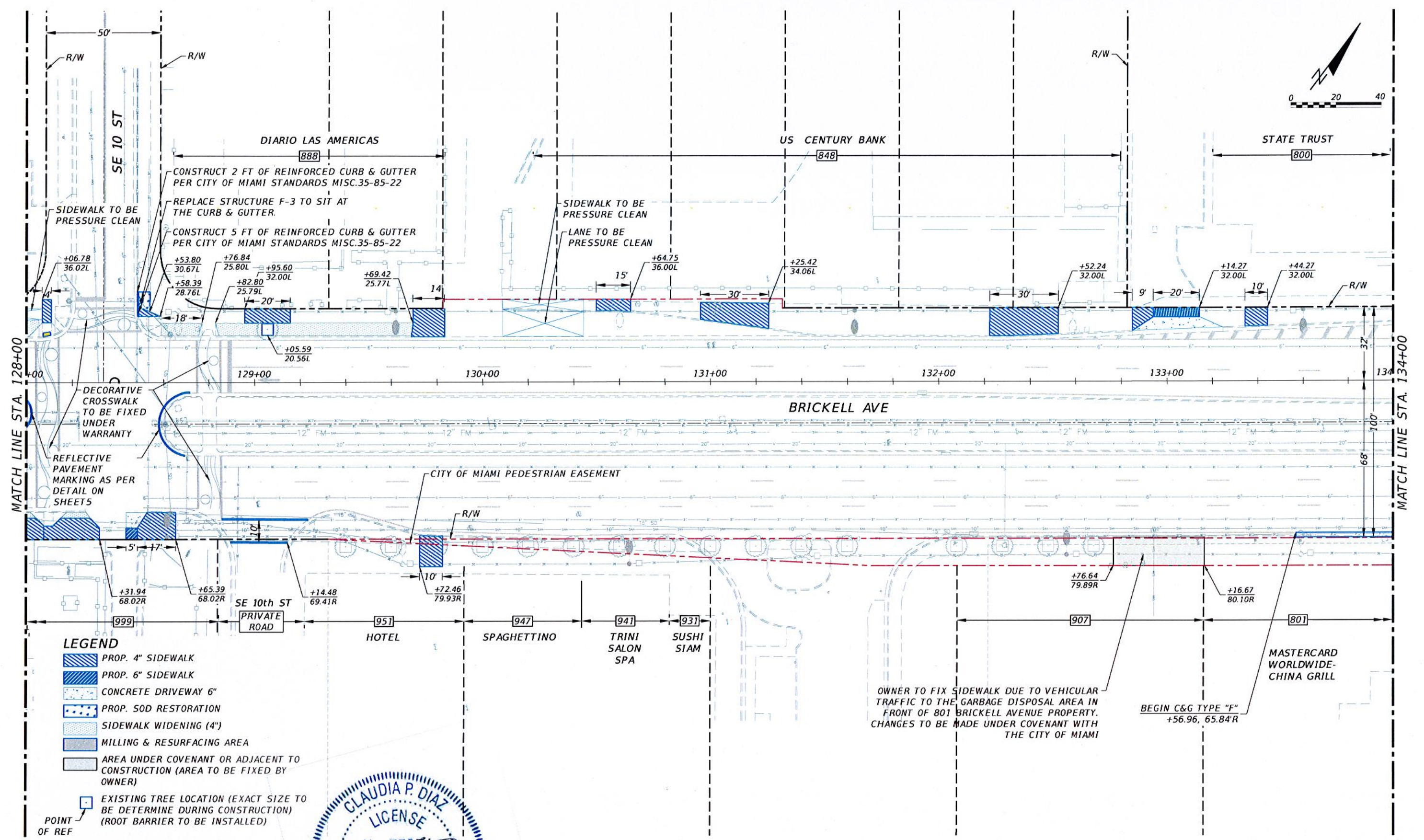
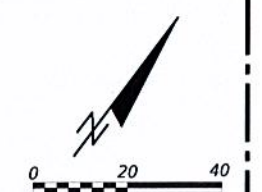
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ROADWAY PLANS	
DATE	SHEET NO.
	9

100% PLANS SECTION ONE





- LEGEND**
- PROP. 4" SIDEWALK
  - PROP. 6" SIDEWALK
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CLAUDIA P. DIAZ  
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 T-Y LIN

REVISIONS		
DATE	BY	DESCRIPTION

EOR  
 1/15/15  
 T-Y LIN

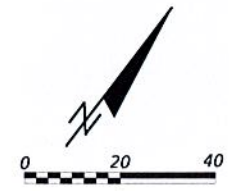
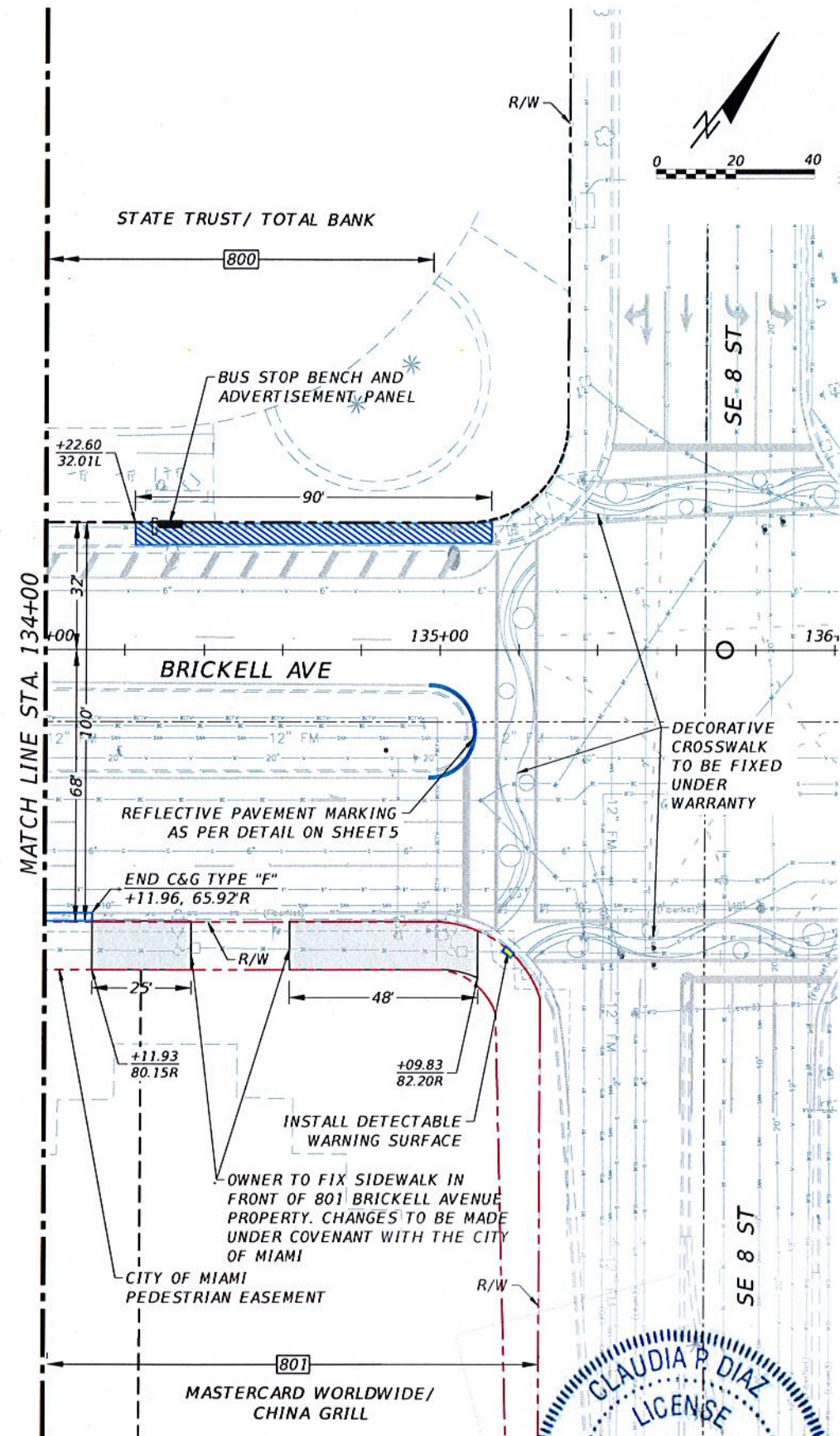
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CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
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**ROADWAY PLANS**  
 SHEET NO.  
**10**

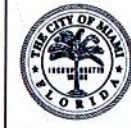
100% PLANS SECTION ONE





- LEGEND**
- PROP. 4" SIDEWALK
  - PROP. 6" SIDEWALK
  - CONCRETE DRIVEWAY 6"
  - PROP. SOD RESTORATION
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  - MILLING & RESURFACING AREA
  - AREA UNDER COVENANT OR ADJACENT TO CONSTRUCTION (AREA TO BE FIXED BY OWNER)
  - EXISTING TREE LOCATION (EXACT SIZE TO BE DETERMINE DURING CONSTRUCTION) (ROOT BARRIER TO BE INSTALLED)
  - POINT OF REF

CLAUDIA P. DIAZ  
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1/15/15



**CITY OF MIAMI**  
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CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
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ROADWAY PLANS	
11	

REVISIONS		
DATE	BY	DESCRIPTION

100% PLANS SECTION ONE



**TRAFFIC CONTROL NOTES:**

1. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
2. REGULATORY SPEED ESTABLISHED WITHIN WORK ZONE TRAVEL WAYS SHALL BE THE EXISTING POSTED SPEED (35MPH).
3. AS DETERMINED BY THE CONSTRUCTION PROJECT MANAGER, THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE PAID UNDER MAINTENACE OF TRAFFIC PAY ITEM 101-01-00.
4. EACH EXISTING STREET NAME AND STOP SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE PAID UNDER MAINTENACE OF TRAFFIC PAY ITEM 101-01-00.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORMWATER FROM ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC THRU THE WORK ZONE IN A MANNER APPROVED BY THE CONSTRUCTION PROJECT MANAGER. COST FOR REMOVING THE WATER SHALL BE PAID UNDER MAINTENACE OF TRAFFIC PAY ITEM 101-01-00.
6. ALL WORK SHALL BE PERFORMED DURING DAYTIME ON WEEKDAYS FROM 8:00AM TO 6:00PM (NO INTERRUPTION OF TRAFFIC IS PERMITTED) AND FROM 9:00AM TO 5:00PM ON SATURDAY.
7. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY DETOURS, IN ACCORDANCE WITH SECTION 336.07 OF FLORIDA STATUTES.
8. CONTRACTOR MUST PROVIDE FLASHER ARROW BOARD FOR ANY LANE THAT IS DIVERTED
9. A SEPARATE CITY OF MIAMI PUBLIC WORKS MAINTENANCE OF TRAFFIC PERMIT SHALL BE REQUIRED PRIOR TO CONSTRUCTION.
10. SUITABLE ACCESS TO PRIVATE PROPERTY SHALL BE PROVIDED AT ALL TIMES.
11. CONTRACTOR SHALL DETOUR PEDESTRIAN TO THE OPPOSITE SIDEWALK DURING ANY SIDEWALK CONSTRUCTION FOLLOWING FDOT STANDARDS 600 SERIES.

**DROP OFFS:**

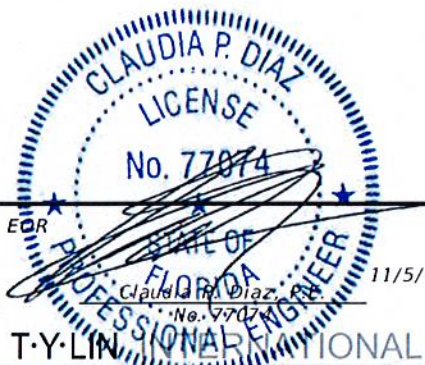
1. THE CONTRACTOR SHALL PROTECT THE WORK ZONE WITH DEVICES APPROVED BY THE CITY OF MIAMI PUBLIC WORKS WHEN DROP OFFS EXCEED 3" ADJACENT TO TRAVEL WAYS.

**WORK ZONE LIMITS:**

1. PROPERTY ACCESS SHALL BE MAINTAINED AT ALL TIMES.

**PEDESTRIANS, BICYCLES, AND WHEELCHAIRS:**

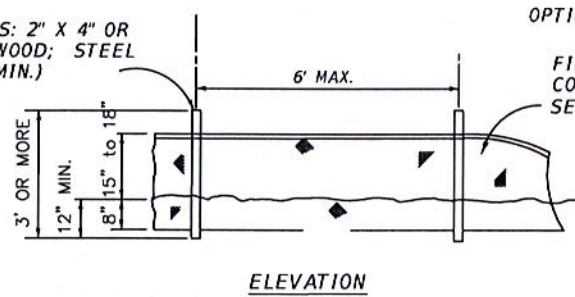
1. AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH THE SAID PATHS OR PROTECTED WITH BARRICADES, TEMPORARY CONCRETE BARRIER WALL, OR APPROVED HANDRAIL. COST OF BACKFILLING DROP OFF SHALL BE INCIDENTAL TO THE PROJECT AT NO ADDITIONAL COST TO THE CONTRACT.
2. PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAFFIC SHALL BE MAINTAINED AND GUIDED USING APPROVED WARNING LIGHTS, SIGNING, AND CHANNELIZATION DEVICES ON AT LEAST ONE SIDE OF THE PROJECT AT ALL TIMES THROUGHOUT THE PROJECT LIMITS. THE TRAVEL PATH SHALL BE A MINIMUM OF 4 FEET WIDE WITH A SMOOTH SURFACE THAT IS NOT SLICK AND IT SHOULD BE RAMPED AS NECESSARY FOR CONTINUITY. COST TO CONSTRUCT AND MAINTAIN THE TRAVEL PATH AS REQUIRED SHALL BE INCIDENTAL TO THE PROJECT AT NO ADDITIONAL COST TO THE CONTRACT.



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DATE	BY	DESCRIPTION			PROJECT NAME	PROJECT No.		
					Brickell Avenue Project SECTION ONE SE 15 ROAD TO SE 8 STREET	B-30874		



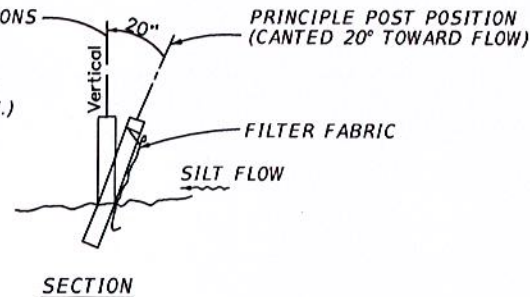
POST (OPTIONS: 2" X 4" OR 2 1/2" MIN. DIA. WOOD; STEEL 1.33 LBS/FT. MIN.)



ELEVATION

OPTIONAL POST POSITIONS

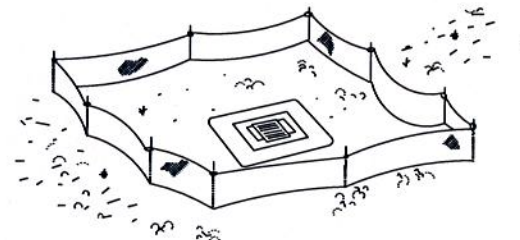
FILTER FABRIC (IN CONFORMANCE WITH SEC. 985 FDOT SPEC.)



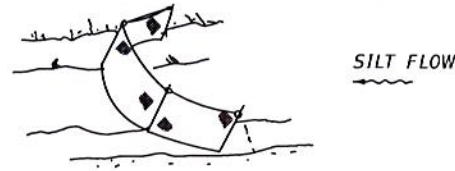
SECTION

**SILT FENCE DETAILS**

NTS



TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS.



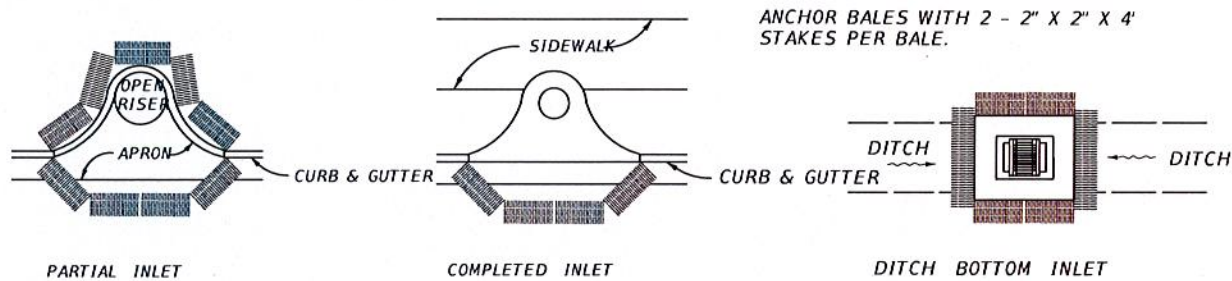
TYPE III SILT FENCE

NOTE: SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART 1, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3 PER INDEX 102

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

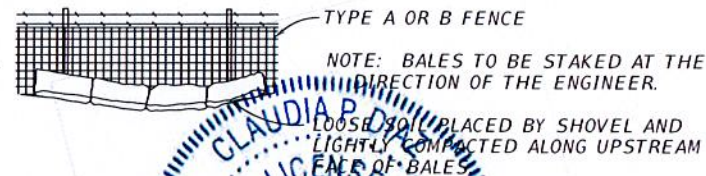
**SILT FENCE APPLICATIONS**

NTS



**PROTECTION AROUND INLETS OR SIMILAR STRUCTURES**

NTS



CLAUDIA P. LIN  
LICENSE  
No. 77074  
PROFESSIONAL ENGINEER  
T-Y LIN

**STORM WATER POLLUTION PREVENTION PRACTICES: (FOR PROJECTS OF 1 ACRE OR MORE)**

1. TREE PROTECTION AND PRUNING SHALL BE ACCOMPLISHED AS DETAILED IN SPECIAL PROVISIONS, THE CONSTRUCTION PLANS, AND OR PER TREE ORDINANCE 12636.
  2. THE STORM WATER POLLUTION PREVENTION PLAN, SWPPP, SUBMITTED TO PUBLIC WORKS, SHALL DESCRIBE IN DETAIL HOW THE CONSTRUCTION EFFORT WILL BE PHASED WITH REGARDS TO MINIMIZING EROSION PROBLEMS BY THE USE OF TEMPORARY AND PERMANENT EROSION CONTROL MEASURES, FOR THE VARIOUS SEQUENCES OF CONSTRUCTION OPERATIONS. ANY MODIFICATIONS MUST BE APPROVED BY THE CITY OF MIAMI - NPDES SECTION, DEPARTMENT OF PUBLIC WORKS.
  3. ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN THE SWPPP, ARE TO BE INSTALLED AT ALL AREAS OF EXCAVATION OR FILL FOR DRAINAGE SYSTEM, OR STRUCTURE CONSTRUCTION PRIOR TO SUCH EXCAVATION OR FILL. INLET ENTRANCES ARE ALSO TO BE PROTECTED FROM SILTATION AS DETAILED ON SHEET 2 OF 4 OF MISC. 35-89-6.
  4. ALL ENVIRONMENTAL CONTROL FEATURES ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT IN ACCORDANCE WITH N.P.D.E.S. REQUIREMENTS. THE CONTRACTOR MUST INSURE THAT ALL EROSION CONTROL FEATURES FUNCTION PROPERLY AT ALL TIMES.
  5. ALL EROSION AND MATERIAL DEPOSITS MUST BE CONTAINED WITHIN THE PROJECT LIMITS.
  6. ANY DAMAGED OR INEFFECTIVE ROCK BAGS ARE TO BE REPLACED WITH NEW ONES. THE LOCATION OF ROCK BAGS INSTALLATION IS AS MENTIONED IN THE SWPPP PLANS. THE PROJECT ENGINEER MAY SPECIFY OTHER AREAS AS NECESSARY.
  7. DITCH BOTTOM INLETS SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL PROJECT IS COMPLETE. ELEVATION OF GROUND OUTSIDE INLET TOP SHALL NOT BE HIGHER THAN INLET TOP. ROCK BAGS SHALL BE INSTALLED AROUND INLET TOP. COMPLETED INLETS IN PAVED AREAS SHALL ALSO BE PROTECTED WITH ROCK BAGS TO PREVENT SEDIMENT INTAKE.
  8. CURB INLETS ALSO SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL THE PROJECT IS COMPLETE. ALL EXPOSED SLOPED MATERIAL ADJACENT TO INLET, SHALL BE COVERED WITH EROSION CONTROL MATTING WITH OUTER LIMITS PROTECTED BY ROCK BAGS.
  9. STOCKPILED MATERIAL SHALL NOT BE LEFT IN EROSION PRONE AREAS UNLESS PROTECTED BY COVER OR ROCK BAGS.
  10. INSPECTION OF EROSION CONTROL MEASURES AND CONDITION OF ADJACENT PROPERTIES, SHALL BE PERFORMED DAILY BY THE CONTRACTOR'S REPRESENTATIVE AND THE PROJECT ENGINEER. DEFICIENCIES SHALL BE NOTED AND CORRECTED.
  11. ANY OFFSITE SEDIMENT DISCHARGE TO A MUNICIPAL SEPARATE STORM WATER SYSTEM ARISING FROM THE CONTRACTOR'S ACTIVITIES IS NOT ALLOWED. REFER TO PUBLIC WORKS DEPARTMENT BULLETIN No. 25.
  12. THE USE OF SANITARY SEWERS, FRENCH DRAINS, COVER DITCHES AND/OR ROCK DRAINS FOR THE DISPOSAL OF WASTEWATER IS EXPRESSLY PROHIBITED.
- REFER TO PUBLIC WORKS DEPARTMENT BULLETIN No. 25. \* NPDES - NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM

**STORM WATER POLLUTION PREVENTION PLAN (SWPPP)**

A. EROSION & SEDIMENT CONTROL STABILIZATION PRACTICES:

- \_\_\_ TEMPORARY SODDING
- \_\_\_ TEMPORARY GRASSING
- \_\_\_ PERMANENT PLANTING, SEEDING OR SEED & MULCH
- \_\_\_ TEMPORARY MULCHING
- \_\_\_ ARTIFICIAL COVERING
- \_\_\_ BUFFER ZONES
- \_\_\_ PRESERVATION OF NATURAL RESOURCES
- \_\_\_ OTHER

B. STRUCTURAL PRACTICES:

- \_\_\_ SAND BAGGING
- \_\_\_ HAUL ROADS DAMPENED FOR DUST CONTROL
- \_\_\_ LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN, OR APPROVED EQUAL.
- \_\_\_ EXCESS DIRT ON ROAD REMOVED DAILY

C. OTHER CONTROLS: OFFSITE VEHICLE TRACKING:

- \_\_\_ HAUL ROADS DAMPENED FOR DUST CONTROL
- \_\_\_ LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN, OR APPROVED EQUAL.
- \_\_\_ EXCESS DIRT ON ROAD REMOVED DAILY

\_\_\_ STABILIZED CONSTRUCTION ENTRANCE

\_\_\_ CONCRETE TRUCK WASH AREA

\_\_\_ OTHER TREATMENT OF STORM WATER TO MEET WATER QUALITY:

- \_\_\_ DEEP WELLS
- \_\_\_ CULVERTS FOR EMERGENCY OVERFLOW
- \_\_\_ POLLUTION CONTROL STRUCTURES
- \_\_\_ OTHER

D. GENERAL

1. APPROVED STATE, LOCAL PLANS OR STORM WATER PERMITS.
2. ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES.
3. ALL CONTROLS SHALL BE INSPECTED DAILY.
4. APPLY FERTILIZERS AND PESTICIDES ACCORDING TO STANDARD SPECIFICATIONS, DESIGN AND SPECIAL PROVISIONS.
5. REPORT NON-STORM WATER DISCHARGE (INCLUDING SPILL) (305) 416-1200.
6. VISIT [www.dep.state.fl.us/water/stormwater/npdes/](http://www.dep.state.fl.us/water/stormwater/npdes/)

REVISIONS		
DATE	BY	DESCRIPTION

FOR  
T-Y LIN  
1/5/15

CITY OF MIAMI  
CAPITAL IMPROVEMENTS PROGRAM  
444 SW 2ND AVENUE, 8TH FLOOR  
MIAMI, FLORIDA 33130  
(305) 416-1213 FAX (305) 416-1253

CITY OF MIAMI  
CAPITAL IMPROVEMENTS PROGRAM  
PROJECT NAME  
Brickell Avenue Project  
SECTION ONE  
SE 15 ROAD TO SE 8 STREET  
PROJECT No.  
B-30874

STORM WATER POLLUTION PREVENTION PLAN

SHEET NO.  
13



**STORM WATER POLLUTION PREVENTION NOTES:**

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS KEY SHEET CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

- A. THE FOLLOWING NARRATIVE AND REFERENCED DOCUMENTS,
- B. THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, CITY OF MIAMI PW BULLETIN No. 25 AND CITY ORDINANCE No. 13081,
- C. REPORT OF INSPECTIONS MADE DURING CONSTRUCTION.

**1.0 SITE DESCRIPTION**

**1.A. NATURE OF CONSTRUCTION ACTIVITY:**

THE PLAN DELINEATED IN THIS SWPPP IS FOR CONSTRUCTION ACTIVITIES WITHIN BRICKELL AVENUE FROM SE 15 ROAD TO SE 8 STREET. THE PROJECT INCLUDES DEMOLITION OF THE EXISTING SIDEWALK, CURB AND GUTTER, DRIVEWAYS, RAMPS AND REPLACEMENT OF SIDEWALK, CURB AND GUTTER, DRIVEWAYS AND RAMPS. INSTALLATION OF NEW BENCHES.

**1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:**

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAIL SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS THE EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE CLEARING AND GRUBBING OTHER AREAS OF THE SITE.

1. CLEARING AND GRUBBING.
2. ASPHALT MILLING AND RESURFACING
3. DRAINAGE WORK

**1.C. AREA ESTIMATES**

TOTAL PROJECT AREA: 7.47 ACRES  
TOTAL AREA TO BE DISTURBED: 7.47 ACRES

**1.D. RUNOFF DATA**

Runoff Coefficients:  
Before Construction: 0.71  
During Construction: 0.71  
After Construction: 0.71

**1.E. SITE MAP**

THE SHEETS CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLANS REFERENCED IN THIS SECTION ARE IDENTIFIED ON THE KEY SHEET OF THE PLANS.

- \* APPROXIMATE SLOPES: THE PLANS MAINTAINS A 2% TYPICAL CROSS SLOPE AS INDICATED ON THE TYPICAL SECTION.
- \* AREAS OF SOIL DISTURBANCE: THE LIMITS OF SOIL DISTURBANCE ARE SHOWN ON THE TYPICAL SECTION SHEETS AND PLANS SHEETS.
- \* AREAS NOT TO BE DISTURBED: ENTIRE PROJECT AREA TO BE DISTURBED.
- \* LOCATIONS OF TEMPORARY CONTROLS: ROCK BAGS WILL BE LOCATED AROUND ALL EXISTING AND PROPOSED INLETS; TURBIDITY BARRIERS WILL BE LOCATED AT ANY BODIES OF WATER AFFECTED BY THIS PROJECT.
- \* LOCATIONS OF PERMANENT CONTROLS: PERMANENT FEATURES ARE SHOWN ON THE CONSTRUCTION PLANS, WHICH GENERALLY CONSIST OF SOD, ASPHALT, CONCRETE, AND DRAINAGE STRUCTURES.
- \* SURFACE WATERS: NONE
- \* WETLAND AREAS: NONE

**2.0 CONTROLS**

**2.A. EROSION AND SEDIMENT CONTROLS:**

IN THE SECTION 104 EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S TRAFFIC CONTROL PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TRAFFIC CONTROL PLAN (TCP) OUTLINED IN THESE CONSTRUCTION PLANS. THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SECTION 104 EROSION CONTROL PLAN, SUBJECT TO APPROVAL OF THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES AND THE NEED FOR BETTER PRACTICES TO LIMIT THE TRANSPORT OF SEDIMENT FROM THE CONSTRUCTION AREA. THE CONTRACTOR SHALL MINIMIZE THE SOIL AREAS EXPOSED AT ANY GIVEN TIME AND SHALL STABILIZE AREAS THAT WILL REMAIN IDLE FOR MORE THAN 7 DAYS. THE CONTRACTOR SHALL UTILIZE GRADING TECHNIQUES TO DIRECT RUNOFF TO AREAS WITH THE PROPER EROSION CONTROL FEATURES INSTALLED AND AWAY FROM OPEN WATER OR OTHER SENSITIVE AREAS ADJACENT TO THE WORK SITE.

**2.A.1 STABILIZATION PRACTICES:**

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLANS, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 14 DAYS. IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED THE STABILIZATION PRACTICES PROPOSED BY THE CONTRACTOR SHALL INCLUDE AT LEAST THE FOLLOWING:

- PERMANENT:
- \* ASPHALT OR CONCRETE SURFACE.
  - \* SOD IN ACCORDANCE WITH ORDINANCE 12636.

**2.A.2 STRUCTURAL PRACTICES:**

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLANS, THE CONTRACTOR SHALL DESCRIBE THE STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. ALL SEDIMENTS CONTROLS SHALL BE IN PLACE BEFORE ANY SOIL DISTURBING ACTIVITY UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES PROPOSED BY THE CONTRACTOR SHALL INCLUDE AT LEAST THE FOLLOWING:

- TEMPORARY:
- \* ROCK BAGS IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.
- PERMANENT:
- \* CURB AND GUTTER
  - \* DRAINAGE STRUCTURES
  - \* SOD

**2.B. STORM WATER MANAGEMENT:**

DRAINAGE PATTERNS AND DIVIDES ARE INCLUDED ON THE DRAINAGE MAP INCLUDED IN THE DRAINAGE REPORT. STORM WATER IS CAPTURE BY PROPOSED INLETS AND RETAIN IN INFILTRATION TRENCHES

**2.C. OTHER CONTROLS:**

THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING BY INSTITUTING A CLEAN, ORDERLY CONSTRUCTION SITE; THE FOLLOWING CONTROLS SHALL BE IMPLEMENTED TO FURTHER REDUCE POLLUTION AT THE PROJECT SITE:

**2.C.1. DISCHARGE OF MATERIAL TO SURFACE WATERS:**

NO CONSTRUCTION MATERIAL SHALL BE DISCHARGE TO WATERS OF THE STATE UNLESS AUTHORIZED BY SECTION 40. PERMIT AND/OR CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN AN APPROVED UPLAND LOCATION. BUILDING MATERIAL SHALL NOT BE DISPOSED OF IN WETLANDS OR BURIED ON-SITE. IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIAL. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- \* PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES.
- \* DISPOSE OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- \* DISPOSE OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS OR WETLANDS.

**2.C.2. OFF-SITE VEHICLE TRACKING AND DUST CONTROL:**

THE CONTRACTOR SHALL TAKE MEASURES TO INSURE THE CLEANUP OF THE SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORM WATER ABOUT THE SITE OR ONTO NEARBY ROADWAYS.

STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED IN ORDER TO REDUCE OFF-SITE TRACKING. LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPULIN. EXCESS DIRT ON THE ROAD SHALL BE REMOVED DAILY. PROVIDE A STREET SWEEPING PLAN TO THE CITY INSPECTOR.

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- \* COVER LAODED HAUL TRUCKS WITH TARPULINS.
- \* REMOVE EXCESS DIRT FROM ROADS DAILY.
- \* STABILIZE CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARDS 106. (CONSTRUCTION ENTRANCES ARE ALREADY STABILIZED FOR THIS PROJECT)

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					SE 15 ROAD TO SE 8 STREET		

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2.C.3. WASTE DISPOSAL, SANITARY SEWER OR SEPTIC TANK REGULATIONS:

THE CONTRACTOR SHALL DEMONSTRATE THE PROPER DISPOSAL OF ALL CONSTRUCTION WASTE GENERATED WITHIN THE PROJECT LIMITS. WASTE MAY INCLUDE, BUT NOT LIMITED TO, VEGETATION FROM CLEANING AND GRUBBING ACTIVITIES, PACKAGING MATERIAL, SCRAP BUILDING MATERIAL, LITTER FROM TRAVELING PUBLIC, SEWAGE FROM SANITARY FACILITIES, HERBICIDES AND PESTICIDES AND THEIR CONTAINERS, AND HYDROCARBON PRODUCTS SHALL BE DESIGNATE A WASTE COLLATION AREA ON SITE AND DELINEATE THE AREA ON THE SWPPP SITE MAP.

SANITARY SEPTIC FACILITIES SHALL BE PROVIDED AND MAINTAINED IN A NEAT AND SANITARY CONDITION, FOR THE USE OF THE CONTRACTOR'S EMPLOYEES AS NECESSARY TO COMPLY WITH THE REQUIREMENTS AND REGULATIONS OF THE STATE AND LOCAL BOARDS OF HEALTH. A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY THE STATE REGULATIONS WILL COLLECT ALL SANITARY WASTE FROM PORTABLE UNITS.

THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES. CONTRACTOR WILL PROVIDE AN ADEQUATE NUMBER OF LITTER CONTAINERS WITH LIDS AT THIS STAGING STOCKPILE AND FIELD OFFICE AREAS. WASTE COLLECTION WILL BE SCHEDULED SO THAT CONTAINERS ARE EMPTIED PRIOR TO OVERFLOW. SPILLED LITTER CONTAINERS WILL BE CLEANED UP IMMEDIATELY.

**STORM WATER POLLUTION PREVENTION NOTES CONTINUED:**

2.C.4. FERTILIZERS AND PESTICIDES:

THE APPLICATION AND HANDLING OF HERBICIDES AND PESTICIDES SHALL BE IN COMPLIANCE WITH THE MANUFACTURES-RECOMMENDED METHOD AND IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION FOR ROADS AND BRIDGE CONSTRUCTION. HERBICIDES AND PESTICIDES SHALL BE ONSITE IN THEIR ORIGINAL CONTAINERS WITH PRODUCT LABEL INTACT.

2.C.5 TOXIC/HAZARDOUS MATERIAL HANDLING

CONTRACTOR SHALL PROVIDE EQUIPMENT NECESSARY TO CONTAIN AND CLEAN UP SPILLS OF HAZARDOUS MATERIAL AFTER THEY OCCUR. SPILLED MATERIAL AND THE EQUIPMENT USED TO CLEAN UP THE SPILL SHALL NOT COME IN CONTACT WITH SURFACE WATERS OR BE INTRODUCED INTO STORM WATER. DISPOSAL OF SURPLUS PRODUCT WILL BE DONE ACCORDING TO MANUFACTURE RECOMMENDED METHOD.

CONTRACTOR SHALL PROVIDE A PROJECT SPECIFIC HAZARDOUS MATERIAL SPILL CONTROL PLAN TO ADDRESS THE HANDLING OF HYDROCARBON AND HAZARDOUS MATERIALS. PETROLEUM PRODUCTS SHALL BE STORED IN COVERED AREAS WITH SECONDARY CONTAINMENT SURROUNDING CONTAINER.

TOXIC/HAZARDOUS MATERIAL EXPOSED DURING CONSTRUCTION ACTIVITIES SHALL BE HANDLE AS PER THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

2.D STATE AND LOCAL PERMITS TO BE APPLIED FOR:

- \* CLASS II FROM THE DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT.
- \* NPDES FROM THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT

**3.0 MAINTENANCE**

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR. IF A CONTROL NEEDS REPAIR OR REPLACEMENT, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT AND RECORDED ON THE INSPECTION FORMS. MAINTENANCE SHALL CONTINUE UNTIL ALL ERODIBLE SOILS WITHIN THE CONTRIBUTING AREA HAVE BEEN STABILIZED. AT THIS POINT, THE CONTRACTOR SHALL REMOVE EXCESS SILT AT THE CONTROLS AND REMOVE THE TEMPORARY DEVICES. THE MAINTENANCE PLAN SHALL AT MINIMUM, COMPLY WITH THE FOLLOWING:

- \* INLET PROTECTION (ROCK BAGS): THE CONTRACTOR SHALL INSPECT THE PROTECTED INLETS EVERY TWO WEEKS AND REPLACE THE ROCK BAGS IF NECESSARY OR WHEN EXCESSIVE POUNDING OCCURS; ELIMINATE BREACHES IN THE PROTECTION.
- \* TURBIDITY BARRIER: MAINTAIN AS PER SECTION 104 OF THE SPECIFICATIONS.
- \* STREET SWEEPING: DAILY CONTROL AND DUST PREVENTION WITH WATER TRUCK.
- \* GRASSED AREAS: NEWLY SODDED AREAS AND ADJACENT AREAS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED AND MAINTAINED, WATERING AND MOWING AS NEEDED OR REQUIRED IN THE FDOT STANDARD SECIFICATIONS.

**4.0 INSPECTIONS**

QUALIFIED PERSONNEL SHALL INSPECT ALL THE CONTROL FEATURES AT LEAST ONE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY WEEK. THE CONTRACTOR SHALL ALSO ENSURE THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE FOLLOWING ITEMS WILL BE INSPECTED:

- \* POINTS OF DISCHARGE TO SURFACE WATERS OR WETLANDS: INSPECT TO DETERMINE IF CONTROLS ARE EFFECTIVE IN PREVENTING OR MINIMIZING THE DISCHARGE OF POLLUTANTS.
- \* POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM SEWER SYSTEMS, INLETS, ETC.: INSPECT TO DETERMINE IF CONTROLS ARE EFFECTIVE IN PREVENTING OR MINIMIZING THE DISCHARGE OF POLLUTANTS.

\* DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED: INSPECT FOR EVIDENCE OF POTENTIAL FOR DISCHARGING POLLUTANTS INTO SURFACE WATERS OR STORMWATER SYSTEMS.

\* AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION: INSPECT FOR EVIDENCE OF POTENTIAL FOR DISCHARGING POLLUTANTS INTO SURFACE WATERS OR STORMWATER SYSTEMS.

\* STRUCTURAL CONTROLS: INSPECT FOR PROPER INSTALLATION AND OPERATION.

\* STORMWATER MANAGEMENT SYSTEMS: INSPECT FOR PROPER OPERATION, EVIDENCE OF FLOODING DUE TO SEDIMENTATION OR CONTROLS REQUIRING MAINTENANCE.

\* LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE: INSPECT FOR EVIDENCE OF OFFSITE TRACKING.

**5.0 NON-STORM WATER DISCHARGES:**

THE CONTRACTOR SHALL INITIATE WITHIN 24 HOURS OF INSPECTION THAT INDICATES ITEMS ARE NOT IN GOOD WORKING ORDER BASED ON THE RESULTS OF THE INSPECTION, ALL MAINTENANCE OPERATIONS NEEDED TO ASSURE PROPER OPERATION OF ALL CONTROLS, BMPS OR MEASURES IDENTIFIED IN THIS SWPPP SHALL BE DONE IN A TIMELY MANNER, BUT NO LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. IF NEEDED, POLLUTION PREVENTION CONTROLS SHALL BE REVISED AS APPROPRIATE IF FAILURES IN THE PLAN ARE NOTED; THESE REVISIONS SHALL BE IMPLEMENTED NO LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.

A REPORT (USE FDOT FORM 650-040-03) SUMMARIZING THE SCOPE OF THE INSPECTION SHALL INCLUDE THE INSPECTOR'S NAME, QUALIFICATIONS, DATE, RAINFALL DATA, OBSERVATIONS RELATING TO THE SWPPP, AND ACTIONS TAKEN SINCE THE LAST REPORT. THE REPORT SHALL INDENTIFY ALL INCIDENTS OF NON-COMPLIANCE.

IF THERE ARE NO INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE SWPPP AND THE PERMIT. THE REPORT SHALL BE SIGNED AND FILED AS REQUIRED BY THE GENERIC PERMIT.

THE CONTRACTOR SHALL MAINTAIN A FILE CONTAINING THE CURRENT SWPPP, NOI SUBMITTAL, CERTIFICATIONS AND ALL THE SIGNED INSPECTION REPORTS; THE NOTICE OF INTENT SUBMITTED AS REQUIRED BY CHAPTER 62-621, FAC, MUST BE POSTED AT THE SITE.

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORM WATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES) SUCH AS THOSE LISTED BELOW. THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION FROM THESE NON-STORM WATER DISCHARGES.

IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR IS TO CEASE OPERATIONS IN THAT AREA. THE CONTRACTOR SHALL CONTACT THE CITY OF MIAMI PROJECT MANAGER.

A DEWATERING PERMIT IS REQUIRED TO REMOVED GROUNDWATER FROM THE CONSTRUCTION SITE.

- \* CULVERT INSTALLATION METHODS
- \* SLURRY DISPOSAL
- \* DUST CONTROL
- \* EQUIPMENT WASHOUT
- \* PIPE DESILTING ACTIVITIES
- \* IRRIGATION

**6.0 CONTRACTOR SUBMITTAL:**

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP AN EROSION CONTROL PLAN THAT PROVIDES A DETAILED DESCRIPTION OF ALL EROSION AND SEDIMENT CONTROLS, BMP'S AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH ACTIVITY IDENTIFIED IN SECTION 1.B SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TIMEFRAMES IN WHICH THE CONTROLS WILL BE IMPLEMENTED, MAINTAINED AND REMOVED. THIS INFORMATION SHALL BE CONSIDERED IN COMPLIANCE WITH THE FDEP GENERIC PERMIT FOR STORM WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION SITES.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE FOLLOWING ITEMS ARE ON SITE:

1. COPY OF THE SWPPP WITH THE ORIGINAL CERTIFICATION SIGNATURES.
2. COPY OF THE CONTRACTOR'S EROSION CONTROL PLAN.
3. HAZARDOUS SPILL CONTROL PLAN WITH GUIDELINES ON CONTACTING THE 24-HOUR EMERGENCY RESPONSE PROGRAM FOR HAZARDOUS MATERIAL SPILLS. THIS SHALL INCLUDE COPIES OF DISCHARGE NOTIFICATIONS THAT HAVE OCCURRED WITHIN THE PROJECT LIMITS.
4. COMPLETE INSPECTION FORMS.

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