

Commission:

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Tomas P. Regalado

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Wifredo (Willy) Gort

D3 Commissioner

Frank Carollo

D4 Commissioner

Francis Suarez

D5 Commissioner

Keon Hardemon

City Manager

Daniel J. Alfonso

CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM

JEOVANNY RODRIGUEZ, P.E., DIRECTOR



DERM
PLAN REVIEW
FINAL
APPROVAL

DEPARTMENT OF ENVIRONMENTAL
RESOURCES MANAGEMENT

CORE REVIEWER (PRINT): MARIA TOR
SIGNATURE: [Signature] DATE: 11/12/15

SW 27th Street ROADWAY IMPROVEMENTS
From SW 27th Avenue to SW 32nd Avenue
B-50204

FOR PERMITTING ONLY

INDEX OF SHEETS

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S-1 - S-11	SIGNING AND PAVEMENT MARKINGS

BEGIN PROJECT
STA. 10+12.00

END PROJECT
STA. 36+30.00

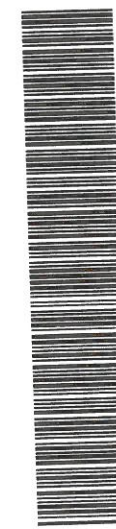


LOCATION MAP
SCALE : 1" = 1500'

PROJECT LENGTH IS BASED ON \square OF SURVEY

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	2,618.04	0.496
BRIDGES	N/A	N/A
NET LENGTH OF PROJECT	2,618.04	0.496
EXCEPTIONS	N/A	N/A
GROSS LENGTH OF PROJECT	2,618.04	0.496

CITY OF MIAMI PROJECT MANAGER: ORLANDO MISAS
CITY OF MIAMI CONSTRUCTION MANAGER: DAVID ADATO, PE



ID: 2015-DTM-MISC-00119

Contact Name: Marlin Scattolini
Contact Phone: 754-204-7858
Folio: 01-4116-023-1300
App. Name: SW 27 STREET ROADWAY IMPROVEMENT
Date: 11/12/2015
Reviewer:

ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
JAVIER RODRIGUEZ, P.E.
R. J. BEHAR & COMPANY, INC.
6861 S.W. 196 AVENUE, SUITE 302
PEMBROKE PINES, FL 33332

PLANS PREPARED BY:
R.J. Behar & Company, Inc.
Engineers • Planners
6861 S.W. 196 AVENUE, SUITE 302
PEMBROKE PINES, FL 33332
VENDOR IDENTIFICATION F65 095 4070
CERTIFICATE OF AUTHORIZATION NO. 00008365
CONTRACT NO. C-8001

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

ROADWAY PLANS
ENGINEER OF RECORD: JAVIER RODRIGUEZ, PE

P.E. NO.: 48264

[Signature]
11/12/15



SHEET NO.
1

GOVERNING STANDARDS AND SPECIFICATIONS:

Florida Department of Transportation, 2015 Design Standards and revised Index Drawings as appended herein, and 2015 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

For Design Standards click on the "Design Standards" link at the following web site:
<http://www.dot.state.fl.us/rddesign/>

For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
<http://www.dot.state.fl.us/specificationsoffice/>

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

SUMMARY OF PAY ITEMS

ITEM NO.	ROADWAY & DRAINAGE PAY ITEMS	UNIT	GRAN TOTAL
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC (ESTIMATED 120 CONSTRUCTION DAYS)	LS	1
110-1-1	CLEARING AND GRUBBING	AC	1.31
160-4	TYPE B STABILIZATION (LBR-40) (12")	SY	4
285-706	OPTIONAL BASE GROUP 06 (8" LIMEROCK BASE OPTION)	SY	42
327-70-16	MILLING EXISTING ASPHALT (1/2" AVG. DEPTH)	SY	8,514
331-2-1	TYPE S-I ASPHALTIC CONCRETE	TN	3
331-2-3	TYPE S-III ASPHALTIC CONCRETE	TN	235
425-1-541	CATCH BASIN, TYPE D, <10'	EA	2
425-2-41	MANHOLE, TYPE D-4	EA	1
430-714-115	PIPE CULVER (OPT MATL) (ROUND) (15" SD)	LF	14
430-714-118	PIPE CULVER (OPT MATL) (ROUND) (18" SD)	LF	33
425-5	MANHOLE, ADJUST (STORM)	EA	4
425-5-1	MANHOLE, ADJUST, UTILITIES (SEWER)	EA	14
425-6	VALVE BOXES, ADJUST (WATER)	EA	20
	VALVE BOXES, ADJUST (SEWER)	EA	1
443-70-3	FRENCH DRAIN, 18"	LF	100
522-1	CONCRETE SIDEWALK (4")	SY	513
522-2	CONCRETE SIDEWALK (6")	SY	77
527-2	DETECTABLE WARNING SURFACE, YELLOW	SF	462
570-1-2	PERFORMANCE TURF, SOD	SY	4,896
580-1-1	LANDSCAPE COMPLETE, SMALL PLANTS, SILVER BUTTONWOOD	EA	2
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"	LF	1,360
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24"	LF	261
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.13
1080-11-101	WATER METER BOX, ADJUST	EA	7
35-86-45	SWALE TRENCH, INCLUDES EXCAVATION AND REGRADING	SF	7580

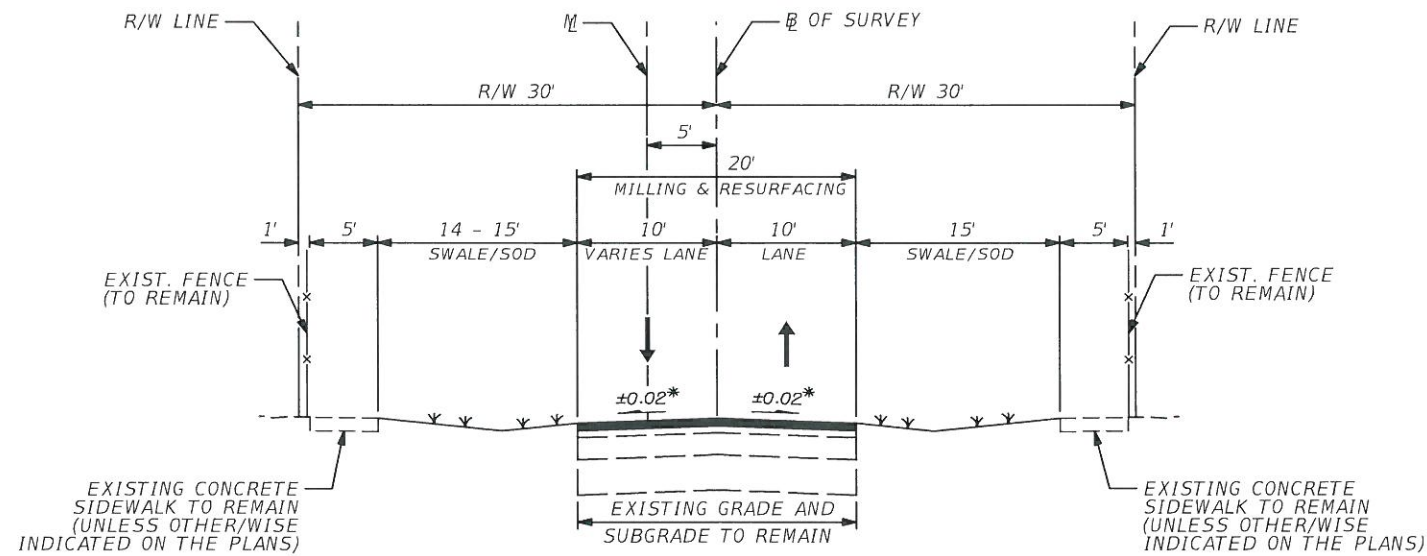
SUMMARY OF PAY ITEMS

ITEM NO.	SIGNING & MARKING ITEMS	UNIT	GRAN TOTAL
660-2-101	LOOP ASSEMBLY, F&I, 6' X 30'	AS	1
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	23
700-1-50	SINGLE POST SIGN, RELOCATE	AS	15
700-1-60	SINGLE POST SIGN, REMOVE	AS	2
700-36-01	SINGLE PANEL, REMOVE, UP TO 12 SF	EA	13
706-3	RETRO-REFLECTIVE PAVEMENT MARKER	EA	32
711-11-123	THERMOPLASTIC, WHITE, SOLID, 12"	LF	1,360
711-11-125	THERMOPLASTIC, WHITE, SOLID, 24"	LF	261
711-11-160	THERMOPLASTIC, PAVEMENT MESSAGE. (SCHOOL)	EA	1
711-15-101	THERMOPLASTIC, STD-OPEN GRADED ASPHALT SURFACE, WHITE, SOLID, 6"	GM	0.05
711-15-201	THERMOPLASTIC, STD-OPEN GRADED ASPHALT SURFACE, YELLOW, SOLID, 6"	GM	0.13

PAY ITEM NOTES

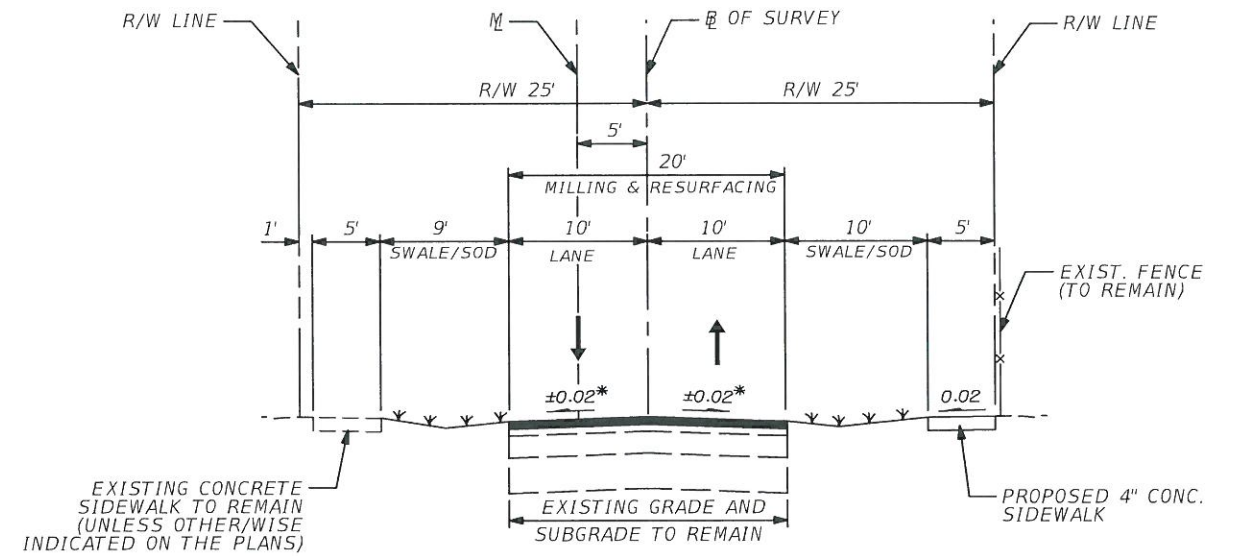
- 102-1 INCLUDES THE COST OF FURNISHING, INSTALLING, MAINTAINING, AND REMOVING ALL ITEMS OF MAINTENANCE OF TRAFFIC NOT PAID FOR UNDER SEPARATE ITEMS INCLUDING BUT NOT LIMITED TO SIGNS, BARRICADES, FLASHING LIGHTS, ETC.
- 110-1-1 INCLUDES THE COST OF SAW CUTTING EXISTING PAVEMENT. INCLUDES THE COST OF TRIMMING HEDGES (SEE PLANS FOR LOCATION), CACTUS REMOVAL AT APPROXIMATELY STA. 27+22.00 (RT) AND TREE STUMP REMOVAL AT APPROXIMATELY STA. 32+43.00 (LT). IT ALSO THE REMOVAL OF CONCRETE AND ASPHALT AREAS TO BE REPLACED WITH SOD.
- 522-1 INCLUDES EXCAVATION AND FILL FOR THE CONSTRUCTION OF NEW SIDEWALK. INCLUDES COST OF SAW CUTTING, AND THE REMOVAL AND DISPOSAL OF EXISTING SIDEWALK. IT ALSO INCLUDES THE COST OF THE INSTALLATION OF ROOT BARRIERS INDICATED IN THE PLANS.
- 522-2
- 570-1-2 INCLUDES WATER AND FERTILIZER.
- 710- THE TOTAL SHOWN ON THE SUMMARY OF ROADWAY PAY ITEMS INCLUDE THE QUANTITIES FOR PAVEMENT MARKINGS USED FOR TRAFFIC CONTROL PAVEMENT MARKING AND FOR FINAL PAVEMENT MARKINGS (AS SHOWN ON THE SIGNING AND PAVEMENT MARKING PLANS).

<p>REVISIONS</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">DATE</th> <th style="width:10%;">BY</th> <th style="width:75%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			DATE	BY	DESCRIPTION							<p>R.J. Behar & Company, Inc. Engineers • Planners 6861 S.W. 196 AVENUE, SUITE 302 PEMBROKE PINES, FL 33332 JAVIER RODRIGUEZ, P.E. LICENSE NO. 48264 CERTIFICATE OF AUTHORIZATION NO. 00008365</p>	 <p>CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM 444 S.W. 2ND AVENUE, 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253</p>	<p>CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">PROJECT NAME</th> <th style="width:50%;">PROJECT No.</th> </tr> <tr> <td align="center">SW 27th St ROADWAY IMPROVEMENT</td> <td align="center">B-50204</td> </tr> </table>	PROJECT NAME	PROJECT No.	SW 27th St ROADWAY IMPROVEMENT	B-50204	<p>SUMMARY OF PAY ITEMS</p>	<p>SHEET NO. 2</p>
DATE	BY	DESCRIPTION																		
PROJECT NAME	PROJECT No.																			
SW 27th St ROADWAY IMPROVEMENT	B-50204																			



TYPICAL SECTION

SW 27th STREET (STA. 10+12.00 TO STA. 36+30.00)



TYPICAL SECTION

SW 31st COURT (STA. 100+25.38 TO STA. 103+49.39)

* MATCH EXISTING CROSS SLOPE

* MATCH EXISTING CROSS SLOPE

MILLING

MILL EXISTING ASPHALT PAVEMENT (1/2" AVG. DEPTH)

RESURFACING

RESURFACE WITH TYPE S-III ASPHALTIC CONCRETE (1/2" AVG.)

WIDENING (SEE PLANS FOR LOCATIONS)

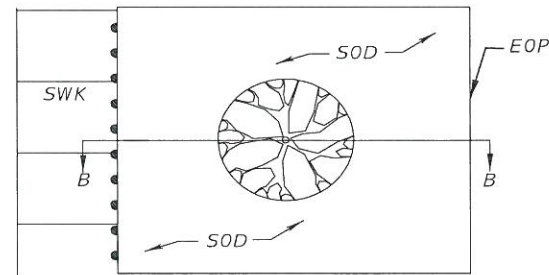
12" TYPE B STABILIZATIONS (LBR-40)
 OPTIONAL BASE GROUP 6 (8" LIMEROCK BASE OPTION) WITH
 TYPE S-I ASPHALTIC CONCRETE (1" AVG.) AND
 TYPE S-III ASPHALTIC CONCRETE (1" AVG.)

TYPICAL SECTION NOTES:

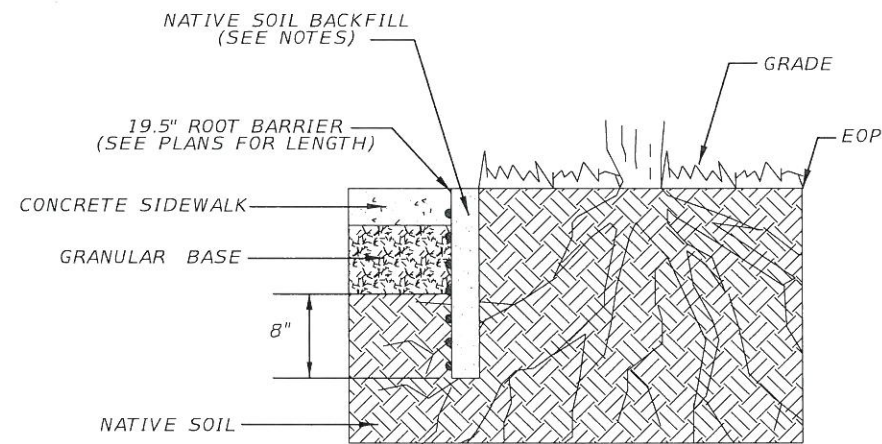
- WHERE THE EXISTING BASE IS EXPOSED DUE TO MILLING, REWORK WHERE NEEDED, SHAPE AND COMPACT. AT ALL LOCATIONS WHERE THIS OCCURS, APPLY PRIME COAT THE SAME DAY AS THE MILLING OPERATIONS. INCLUDE ALL COST OF REWORKING BASE, SHAPING AND COMPACTING IN THE COST OF MILLING.
- APPROXIMATE STATIONS; STA. 19+00.00 TO 20+00.00

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 11/12/15

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DATE	BY			DESCRIPTION	PROJECT NAME		
				SW 27th St ROADWAY IMPROVEMENT	B-50204		



PLAN



B - B

- 1.- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 2.- AN ARBORIST SHOULD BE CONTACTED BEFORE EXTENSIVE CUTTING OF ROOTS.
- 3.- 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 TRENCH WALLS WITH LIQUID TRIFLURALIN. MIX OR FILL TRENCH WITH SAND OR GRAVEL.
- 4.- REPORT ALL DISCREPANCIES TO CONSULTANT PRIOR TO INSTALLATION.
- 5.- INCLUDE ALL COST ON RELATED BID ITEM FOR SIDEWALK.

ROOT CONTROL DETAIL
N.T.S.

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11/12/15

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DATE	BY	DESCRIPTION			PROJECT NAME	PROJECT No.		
					SW 27th St ROADWAY IMPROVEMENT	B-50204		

GENERAL NOTES:

1. GENERAL NOTES ON THE PROJECT PLANS AND DRAWINGS ARE SOLELY TO AID AND ASSIST THE CONTRACTOR WITH THE FIELD OPERATIONS FOR THE PROJECT. SAID GENERAL NOTES MAY NOT FULLY DESCRIBE ALL OF THE REQUIREMENTS FOR AN ITEM. THEREFORE, THE CONTRACTOR SHALL READ AND VERIFY THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO THE PLANS, SPECIFICATIONS, GENERAL TERMS AND CONDITIONS, AND THE SUPPLEMENTAL TERMS AND CONDITIONS, TO FULLY UNDERSTAND AND COMPLY WITH ALL THE REQUIREMENTS THEREIN.
2. THE INFORMATION PROVIDED ON THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
3. CONTRACTOR WILL SECURE WORK SITE TO PROTECT THE PUBLIC HEALTH AND WELFARE.
4. ALL WORK WILL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF MIAMI ENGINEERING STANDARDS FOR DESIGN AND CONSTRUCTION, AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DIVISIONS 2 AND 3.
5. CONTRACTOR TO REPAIR ALL DAMAGES INCURRED AS A RESULT OF CONSTRUCTION ACTIVITIES SUCH AS BUT NOT LIMITED TO SIDEWALK, PAVEMENT, LANDSCAPING, FENCING, ETC. NO ADDITIONAL COMPENSATION WILL BE GIVEN.
6. CONTRACTOR SHALL CONTROL/REMOVE DUST WITH A STREET SWEEPER USING WATER OR OTHER EQUIPMENT CAPABLE OF CONTROLLING DUST.
7. THE CONTRACTOR SHALL NOTIFY THE CITY IN WRITING AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A PROPER STAGING AREA.
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO SATISFY ALL REQUIREMENTS OF ANY REGULATORY AGENCY PERMITS IN REGARDS TO CONSTRUCTION ACTIVITIES AND RELATED CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
10. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE CITY.
11. THE CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR EQUIPMENT.
12. THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATED MATERIAL AND DEBRIS TO AN APPROVED SITE IN A LEGAL MANNER AT NO ADDITIONAL COST TO THE PROJECT.
13. STOCKPILING OF MATERIAL IN ROADWAY IS NOT ALLOWED.
14. THE CONTRACTOR SHALL VERIFY, PHOTOGRAPH AND INVENTORY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, PAVEMENT OR OTHER FEATURES. ANY EXISTING STRUCTURE, PAVEMENT, TREE OR OTHER EXISTING FEATURE, WHICH IS IN CONFLICT OR DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THE CONTRACT, SHALL BE RESTORED PROMPTLY TO IT'S ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE PROJECT.
15. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY OF ANY CONFLICT ARISING DURING CONSTRUCTION FOR ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.
16. ALL CONSTRUCTION LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
17. ALL EXISTING MANHOLE TOPS, CATCH BASIN GRATES, VALVE BOX TOPS, AND WATER METER TOPS WITHIN THE PROJECT AREA SHALL BE MODIFIED TO MATCH FINISHED GRADE BY CITY CONTRACTOR. COST INCIDENTAL TO PAVEMENT PAY ITEM. PLANS MAY NOT SHOW ALL LOCATIONS NECESSARY FOR ADJUSTMENTS. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL NECESSARY UTILITY TOPS TO BE ADJUSTED.
18. CONTRACTOR TO RESTORE ALL SODDED AREAS OF THE PROJECT WHICH ARE DISTURBED DUE TO CONSTRUCTION ACTIVITIES.
19. ALL PROPOSED WORK SHALL BE PERFORMED WITHIN THE LIMITS OF THE EXISTING STATE/LOCAL RIGHT-OF-WAY, AND ALL IMPROVEMENTS SHALL BE CONSTRUCTED AND INSTALLED WITHIN SAID LIMITS.
20. THE CONTRACTOR SHALL ASSIST THE CITY WITH THE HANDLING OF PUBLIC INFORMATION MATERIALS, INCLUDING CITIZEN NOTIFICATION LETTERS AND PROJECT CONSTRUCTION SIGNS, PRIOR TO THE START OF EACH SIGNIFICANT PHASE OF CONSTRUCTION. COST OF THIS WORK SHALL BE INCLUDED IN THE MAINTENANCE OF TRAFFIC BID ITEM.
21. FOR ADDITIONAL INFORMATION IN REGARDS TO THE GROVE STATION TOWER CONTACT:
COASTAL SYSTEM INTERNATIONAL, INC AT 305-669-6258 AND ORTEGA JUNEAU CONSTRUCTION COMPANY AT 305-438-7666

ENVIRONMENTAL NOTES:

1. DUE TO THE LIMITED SCOPE OF WORK, NO IMPACTS TO EXISTING HISTORICAL AND CULTURAL RESOURCES ARE EXPECTED AS A RESULT OF THE PROPOSED ACTION.
2. ANY MATERIAL TO BE STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES.
3. NO STAGING OR OTHER ACTIVITIES FOR THIS PROJECT SHOULD OCCUR WITHIN THE DRIPLINE OF EXISTING TREES.
4. PREVENT DAMAGING TREES AND PLANTERS WITHIN OR IMMEDIATELY ADJACENT TO THE PROJECT'S RIGHT-OF-WAY.
5. A CERTIFIED ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE SHALL BE PRESENT ON SITE TO DIRECT ALL ROOT PRUNING AND/OR CANOPY TRIMMING ACTIVITIES IF NECESSARY.
6. TREE PROTECTION SHOULD BE INSTALLED AROUND TREES TO REMAIN LOCATED ADJACENT TO CONSTRUCTION ACTIVITIES.
7. THE CONTRACTOR SHALL NOT REMOVE, RELOCATE OR PRUNE ANY TREES WITHOUT PRIOR APPROVAL FROM THE CITY. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT PRIOR TO ANY TREE REMOVAL/RELOCATION.
8. CONTRACTOR SHALL KEEP NEW AND EXISTING INLETS CLEAN OF MILLING MATERIALS AND DEBRIS. INLETS LOCATED NEAR CONSTRUCTION ACTIVITIES SHOULD BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES.

APPLICABLE CODES:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE CITY OF MIAMI, FDOT, AND ALL OTHER APPLICABLE LOCAL, STATE AND NATIONAL CODES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.

PRE-CONSTRUCTION RESPONSIBILITIES:

1. PRIOR TO THE COMMENCEMENT OF THE CONSTRUCTION AND THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE C.I.P. CONSTRUCTION MANAGER AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE THE ENGINEER OF RECORD. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE AND BE PREPARED TO DISCUSS ANY CONCERNS OR COORDINATION EFFORTS AND REQUIREMENTS WITH THE PARTIES INVOLVED.
2. CONTRACTOR SHALL PREPARE AND SUBMIT TO THE CITY ENGINEER A STORM WATER POLLUTION PREVENTION PLAN ACCORDING TO THE LATEST FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 104-6, CITY OF MIAMI DEPARTMENT OF PUBLIC WORKS BULLETIN NO. 25 AND CITY OF MIAMI ENGINEERING STANDARDS MISC. 35-89-6. CONTRACTOR SHALL IMPLEMENT THE PLAN PRIOR AND DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

PROJECT RECORD DOCUMENTS:

1. DURING THE DAILY PROGRESS OF THE JOB THE CONTRACTOR SHALL RECORD THE EXACT LOCATION, LENGTH, AND ELEVATION OF ALL PROPOSED IMPROVEMENTS ON HIS SET OF CONSTRUCTION DRAWINGS.
2. UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER ONE COMPLETE SET OF ALL "AS BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND IN ACCORDANCE WITH THE "SURVEY WORK" SECTION OF THE "SPECIFICATIONS AND CONTRACT DOCUMENTS" FOR THIS PROJECT.
3. ALL "AS-BUILT" INFORMATION AND ELEVATIONS SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR AND ALL FINAL MEASUREMENTS ARE TO BE IN THE FORM OF FIELD NOTES.
4. AS-BUILTS SHALL UTILIZE THE CITY OF MIAMI DATUM.

[Handwritten Signature]
11/12/15

REVISIONS			R.J. Behar & Company, Inc. Engineers • Planners 8861 S.W. 196 AVENUE, SUITE 302 PEMBROKE PINES, FL 33332 JAVIER RODRIGUEZ, P.E. LICENSE NO. 48264 CERTIFICATE OF AUTHORIZATION NO. 00008365	 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		GENERAL NOTES	SHEET NO. 5
DATE	BY	DESCRIPTION			PROJECT NAME	PROJECT No.		
					SW 27th St ROADWAY IMPROVEMENT	B-50204		

SURVEYOR NOTES:

1. ALL ELEVATIONS REFER TO THE CITY OF MIAMI DATUM AND ARE EXPRESSED IN FEET.
2. ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, DESTROYED OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED-LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYOR PRIOR TO BEGINNING WORK AT THAT SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR TO REFERENCE, AND RESTORE UPON COMPLETION OF THE WORK, ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO THE CITY ENGINEER A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING. INCLUDE ALL COST OF REFERENCING, RESTORING AND PRESERVING IN THE BID PRICE FOR ITEM 101-1 MOBILIZATION.
3. ALL N.G.V.D. BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED AND REFERENCED BY THE CONTRACTOR IN THE SAME WAY AS PUBLIC LAND CORNERS EXCEPT THAT THE LAND SURVEYORS SHALL NOT BE REQUIRED TO RESTORE THE N.G.V.D. BENCH MARK UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL PROMPTLY TRANSMIT ALL DISPLACED OR DAMAGED N.G.V.D. DISCS TO THE CITY ENGINEER, WHO SHALL NOTIFY THE GEODETIC INFORMATION CENTER. INCLUDE ALL COST OF REFERENCING AND PROTECTING IN THE BID PRICE FOR ITEM 101-1 MOBILIZATION.
4. TOPOGRAPHIC INFORMATION AND BASELINE / MONUMENT LINE GEOMETRY SHOWN ON PLANS WERE TAKEN FROM THE SURVEY PREPARED BY LONGITUDE SURVEYORS DATED 08-14-2015.

UTILITIES:

1. TWO FULL BUSINESS DAYS PRIOR TO DIGGING, THE CONTRACTOR SHALL CALL "SUNSHINE STATE ONE" AT 811 TO REQUEST UTILITY LOCATIONS BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES.
2. EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERTICALLY AND HORIZONTALLY PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT. ANY DAMAGE TO SUCH UTILITIES SHOWN OR NOT SHOWN ON THE PLANS SHALL BE IMMEDIATELY REPORTED TO THE UTILITY OWNER. THE OWNER RESERVES THE RIGHT TO REMEDY SUCH DAMAGE BY ORDERING OUTSIDE PARTIES TO MAKE SUCH REPAIRS AT THE EXPENSE TO THE CONTRACTOR.
4. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL UTILITY MARKINGS ONCE THE WORK IS COMPLETED. CONTRACTOR SHALL USE SPECIAL CARE WHEN REMOVING THE UTILITY MARKINGS. THE REMOVAL METHOD NEEDS TO BE SUCH THAT IT DOES NOT DAMAGE THE SURFACES OF THE EXISTING WORK ALREADY IN PLACE. IF WATER-BLASTING OLDER ASPHALT PAVEMENT, CARE NEEDS TO BE TAKEN TO NOT DISCOLOR THE ASPHALT OR POLISH THE AGGREGATE. IF THE REMOVALS ARE ON OLDER CONCRETE SURFACES, THE ENTIRE SURFACE OF A PANEL OR SECTION NEEDS TO BE BLASTED TO SHOW UNIFORM COLOR THROUGHOUT THAT SAME PANEL OR SECTION. IN ANY CASE (ASPHALT OR CONCRETE SURFACE), THE METHOD NEEDS TO BE SUCH THAT A SLICK SURFACE IS NOT LEFT BEHIND. FINAL PAYMENT TO THE CONTRACTOR MAY BE WITHHELD UNTIL THE UTILITY MARKS ARE PROPERLY REMOVED.
5. UTILITY OWNERS:

COMCAST CABLE
 MIAMI DADE COUNTY - PUBLIC WORKS AND TRAFFIC
 FLORIDA POWER AND LIGHT - DISTRIBUTION
 FLORIDA POWER AND LIGHT - TRANSMISSION
 MIAMI-DADE ENTERPRISE TECHNOLOGY SERVICE
 MIAMI DADE WATER & SEWER
 AT&T

(954) 447-8405
 (305) 412-0891 X201
 (1800) 868-9554
 (305) 228-5290
 (305) 596-8941
 (786) 268-5320
 (954) 723-2540



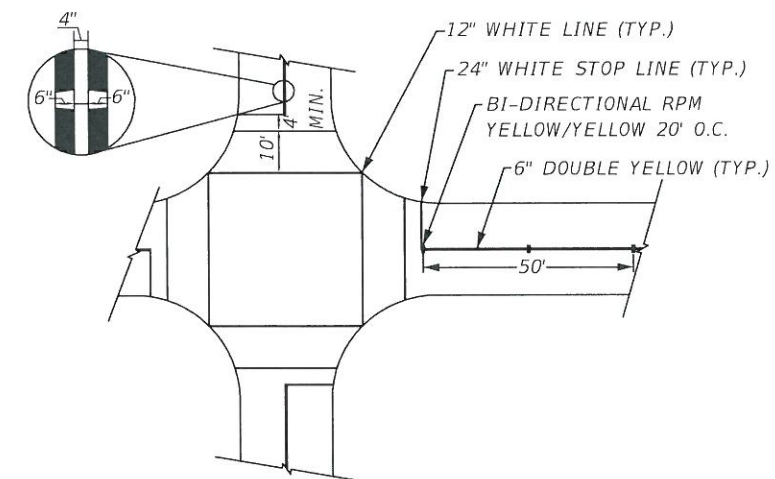
SUNSHINE DESIGN TICKET NO. 072501613

TREE REQUIREMENTS:

1. ALL EXISTING TREES ARE TO REMAIN UNLESS OTHERWISE NOTED ON THE PLANS.
2. AT INTERSECTIONS OF DRIVEWAYS WITH STREETS, VISIBILITY TRIANGLES MUST BE MAINTAINED TO INCLUDE AN AREA BOUNDED BY THE FIRST TEN (10) FEET ALONG THE INTERSECTING EDGES OF THE BASE BUILDING LINE AND THE DRIVEWAY, AND A LINE RUNNING ACROSS THE LOT AND CONNECTING THE ENDS OF SUCH TEN-FOOT LINES.
3. TREES NEEDS TO BE CONOCARPUS ERECTUS VAR. SERICEUS (SILVER BUTTONWOOD)
4. TREES SHALL HAVE A MINIMUM 4 FOOT CLEAR OF TRUNK, FLORIDA GRADE # 1 OR BETTER, MINIMUM 2" DIAMETER AT BREAST HEIGHT (DBH), AND A MINIMUM 8 FEET IN HEIGHT, AND MINIMUM 15 GALLON CONTAINER.

SIGNING & PAVEMENT MARKING NOTES:

1. ALL SIGNING AND PAVEMENT MARKINGS INSTALLED AS PART OF THESE PLANS SHALL CONFORM TO THE 2009 EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREET AND HIGHWAYS AND FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS. ALL SIGN PANELS SHALL BE FABRICATED TO COMPLY WITH THE MOST RECENT EDITION OF THE FEDERAL HIGHWAY AND ADMINISTRATION STANDARD HIGHWAY SIGNS.
2. THE CONTRACTOR SHALL MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND THE END OF THE PROJECT AND AT ALL SIDE STREETS WITHOUT JOGS AND OFFSETS.
3. ALL STRIPING SHALL BE THERMOPLASTIC.

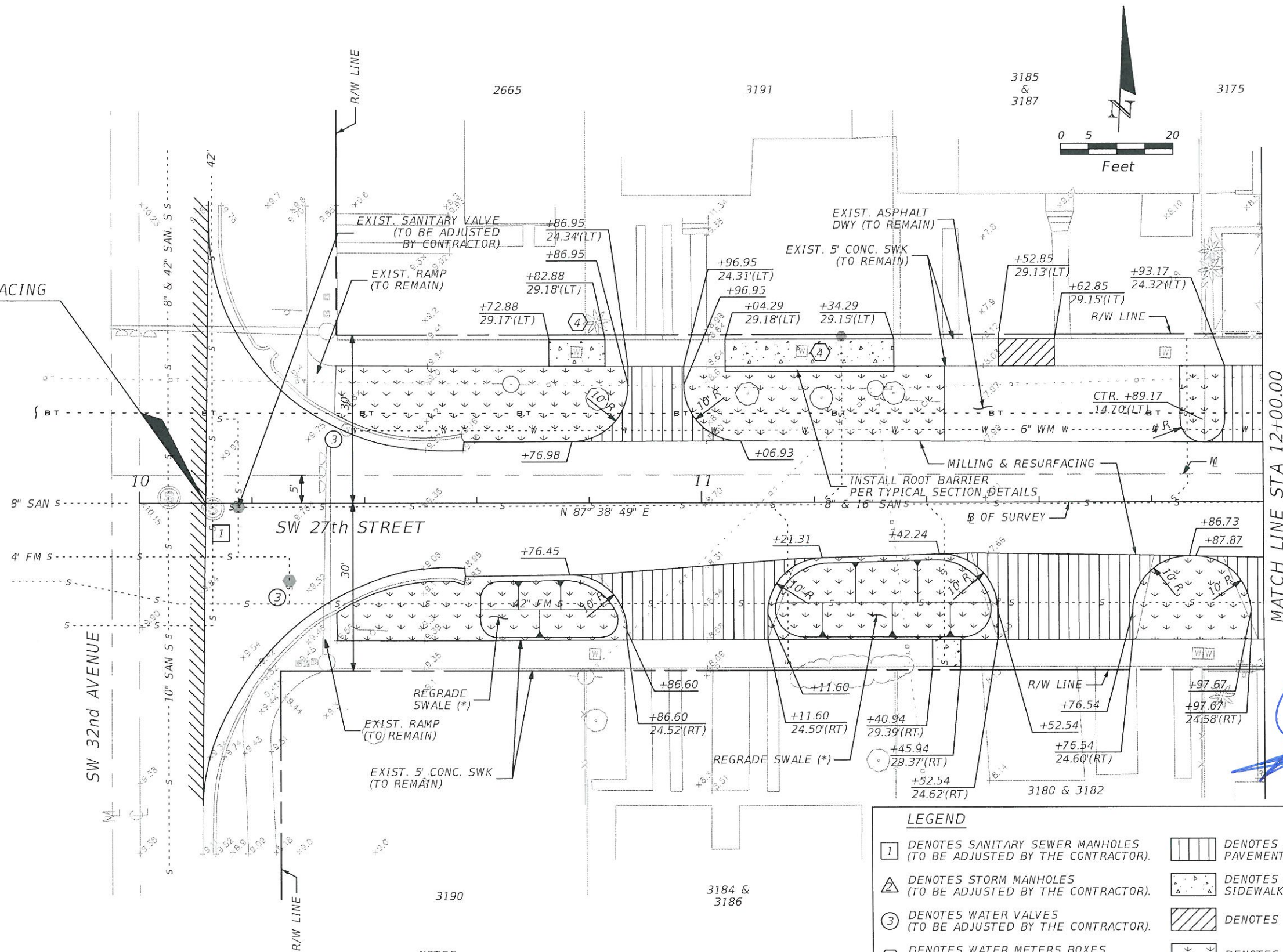


STOP BARS, CROSS-WALKS AND DOUBLE CENTER LINE DETAILS
 N.T.S.

[Handwritten Signature]
 11/12/15

REVISIONS			R.J. Behar & Company, Inc. Engineers • Planners 6861 S.W. 196 AVENUE, SUITE 302 PEMBROKE PINES, FL 33332 JAVIER RODRIGUEZ, P.E. LICENSE NO. 48264 CERTIFICATE OF AUTHORIZATION NO. 00008365	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		GENERAL NOTES	SHEET NO. 6
DATE	BY	DESCRIPTION			PROJECT NAME	PROJECT No.		
					SW 27th St ROADWAY IMPROVEMENT	B-50204		

BEGIN PROJECT
 BEGIN MILLING AND RESURFACING
 STA 10+12.00
 (MATCH EXIST.)



MATCH LINE STA 12+00.00

[Handwritten Signature]
 11/12/15

NOTES:

1. (*) SEE CITY OF MIAMI STANDARD INDEX NO. 35-86-45.
2. (**) SEE CITY OF MIAMI STANDARD INDEX NO. 35-85-40.

LEGEND

- | | | | |
|---|--|------------------------|-------------------------------|
| 1 | DENOTES SANITARY SEWER MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR). | [Hatched Box] | DENOTES ASPHALT PAVEMENT (**) |
| 2 | DENOTES STORM MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR). | [Dotted Box] | DENOTES 4" CONCRETE SIDEWALK |
| 3 | DENOTES WATER VALVES (TO BE ADJUSTED BY THE CONTRACTOR). | [Diagonal Hatched Box] | DENOTES 6" CONCRETE |
| 4 | DENOTES WATER METERS BOXES (TO BE ADJUSTED/REPLACED BY THE CONTRACTOR). WATER METER BOXES TO BE PROVIDED BY MD-WASD. | [Downward Arrow Box] | DENOTES SOD |

REVISIONS	
DATE	DESCRIPTION

R.J. Behar & Company, Inc.
 Engineers • Planners
 6881 S.W. 196 AVENUE, SUITE 302
 PEMBROKE PINES, FL 33332
 JAVIER RODRIGUEZ, P.E. LICENSE NO. 48294
 CERTIFICATE OF AUTHORIZATION NO. 00008365

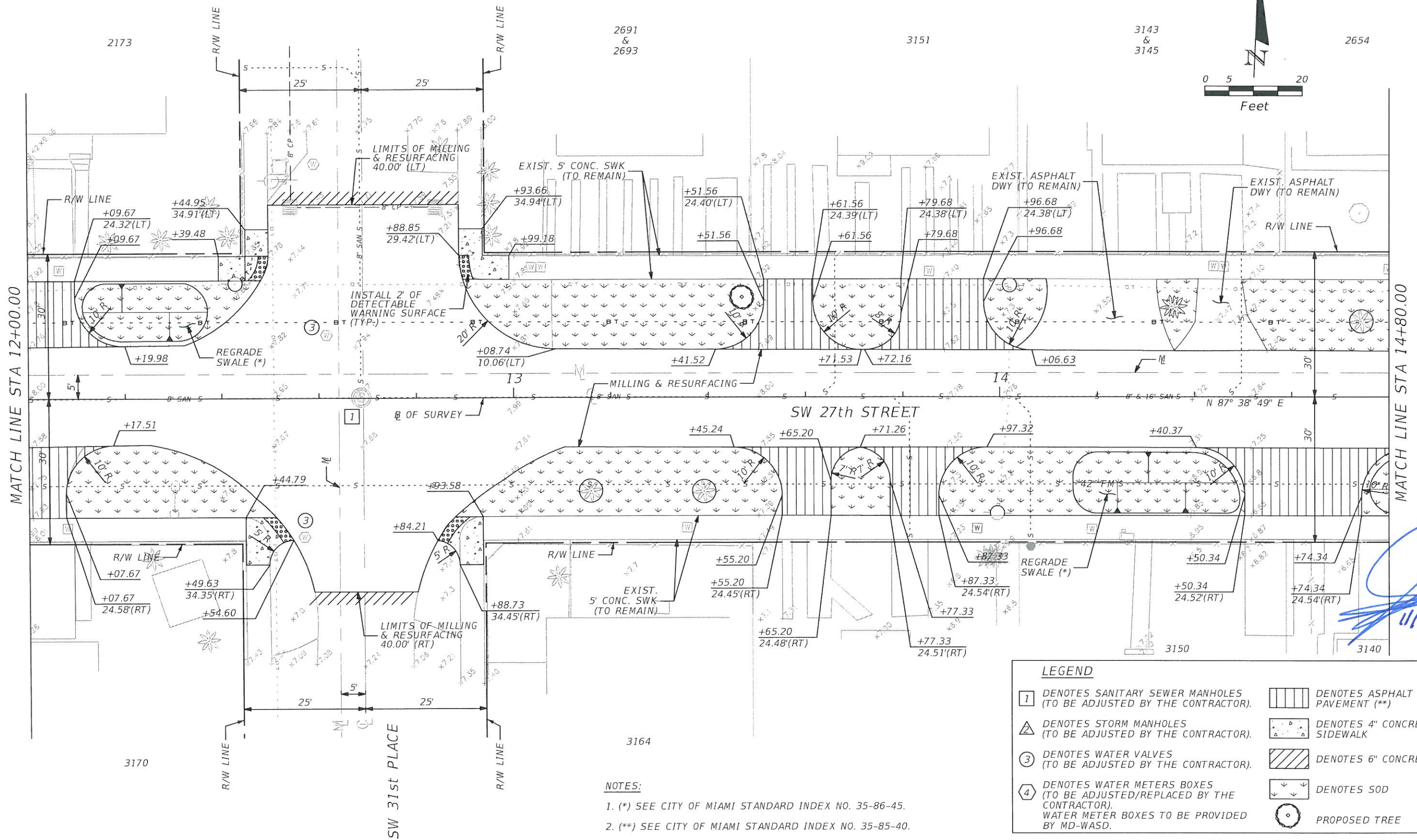


CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 444 S.W. 2ND AVENUE, 8TH FLOOR
 MIAMI, FLORIDA 33130
 (305) 416-1213 FAX (305) 416-1253

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
SW 27th St ROADWAY IMPROVEMENT	B-50204

ROADWAY PLAN	

SHEET NO.
7



- NOTES:**
- (*) SEE CITY OF MIAMI STANDARD INDEX NO. 35-86-45.
 - (**) SEE CITY OF MIAMI STANDARD INDEX NO. 35-85-40.

LEGEND	
1	DENOTES SANITARY SEWER MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR).
△	DENOTES STORM MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR).
3	DENOTES WATER VALVES (TO BE ADJUSTED BY THE CONTRACTOR).
4	DENOTES WATER METERS BOXES (TO BE ADJUSTED/REPLACED BY THE CONTRACTOR). WATER METER BOXES TO BE PROVIDED BY MD-WASD.
[Hatched Box]	DENOTES ASPHALT PAVEMENT (**)
[Dotted Box]	DENOTES 4" CONCRETE SIDEWALK
[Diagonal Lines Box]	DENOTES 6" CONCRETE
[Downward Arrows Box]	DENOTES SOD
[Circle with X Box]	PROPOSED TREE

REVISIONS		
DATE	BY	DESCRIPTION

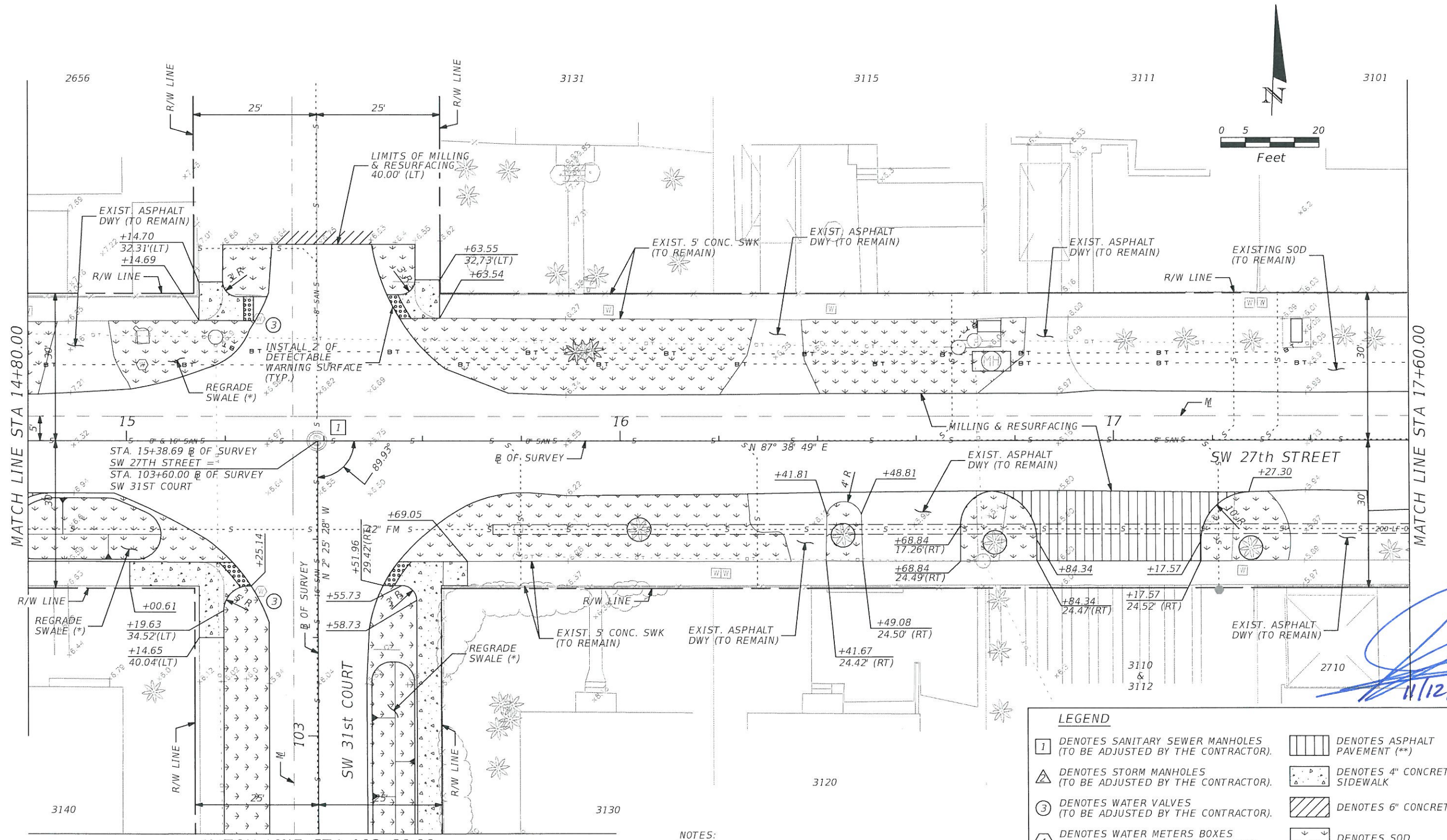
R.J. Behar & Company, Inc.
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 PEMBROKE PINES, FL 33332
 JAVIER RODRIGUEZ, P.E. LICENSE NO. 48264
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 (305) 416-1213 FAX (305) 416-1253

CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 PROJECT NAME: SW 27th St ROADWAY IMPROVEMENT
 PROJECT No.: B-50204

ROADWAY PLAN

SHEET NO. 8



LEGEND

1	DENOTES SANITARY SEWER MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR).	[Hatched Box]	DENOTES ASPHALT PAVEMENT (**)
2	DENOTES STORM MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR).	[Dotted Box]	DENOTES 4" CONCRETE SIDEWALK
3	DENOTES WATER VALVES (TO BE ADJUSTED BY THE CONTRACTOR).	[Cross-hatched Box]	DENOTES 6" CONCRETE
4	DENOTES WATER METERS BOXES (TO BE ADJUSTED/REPLACED BY THE CONTRACTOR). WATER METER BOXES TO BE PROVIDED BY MD-WASD.	[Downward Arrow Box]	DENOTES SOD

NOTES:
 1. (*) SEE CITY OF MIAMI STANDARD INDEX NO. 35-86-45.
 2. (**) SEE CITY OF MIAMI STANDARD INDEX NO. 35-85-40.

Handwritten signature and date:
 N/12/15

REVISIONS	
DATE	DESCRIPTION

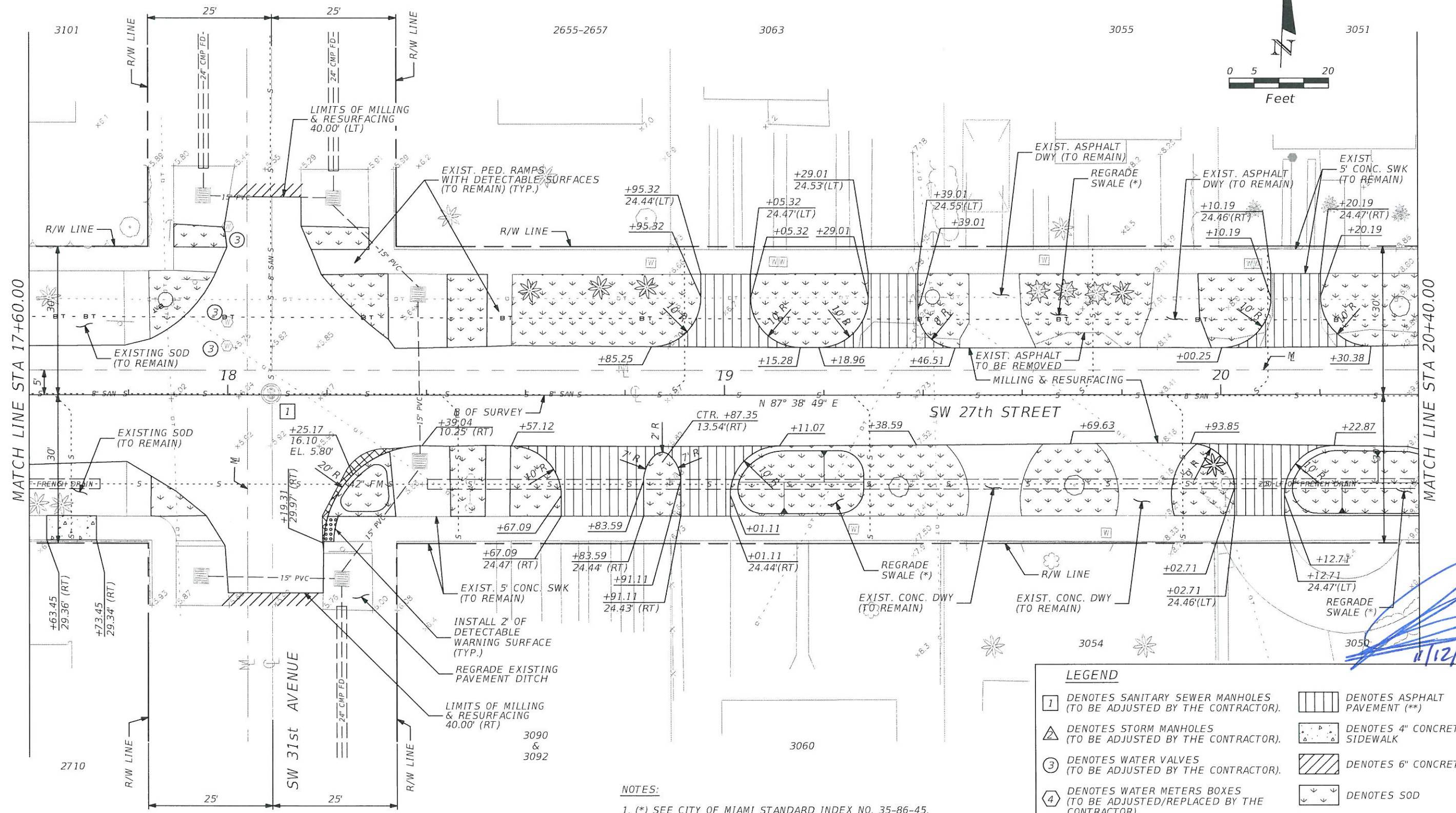
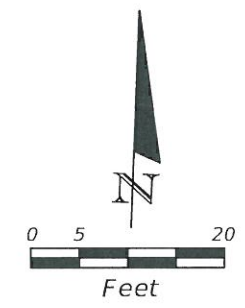
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 JAVIER RODRIGUEZ, P.E. LICENSE NO. 48264
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CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 PROJECT NAME: SW 27th St ROADWAY IMPROVEMENT
 PROJECT No.: B-50204

ROADWAY PLAN

SHEET NO.
 9



LEGEND

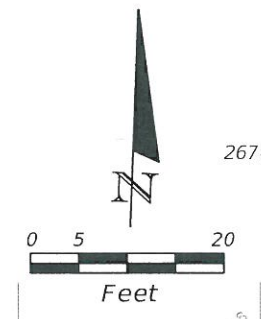
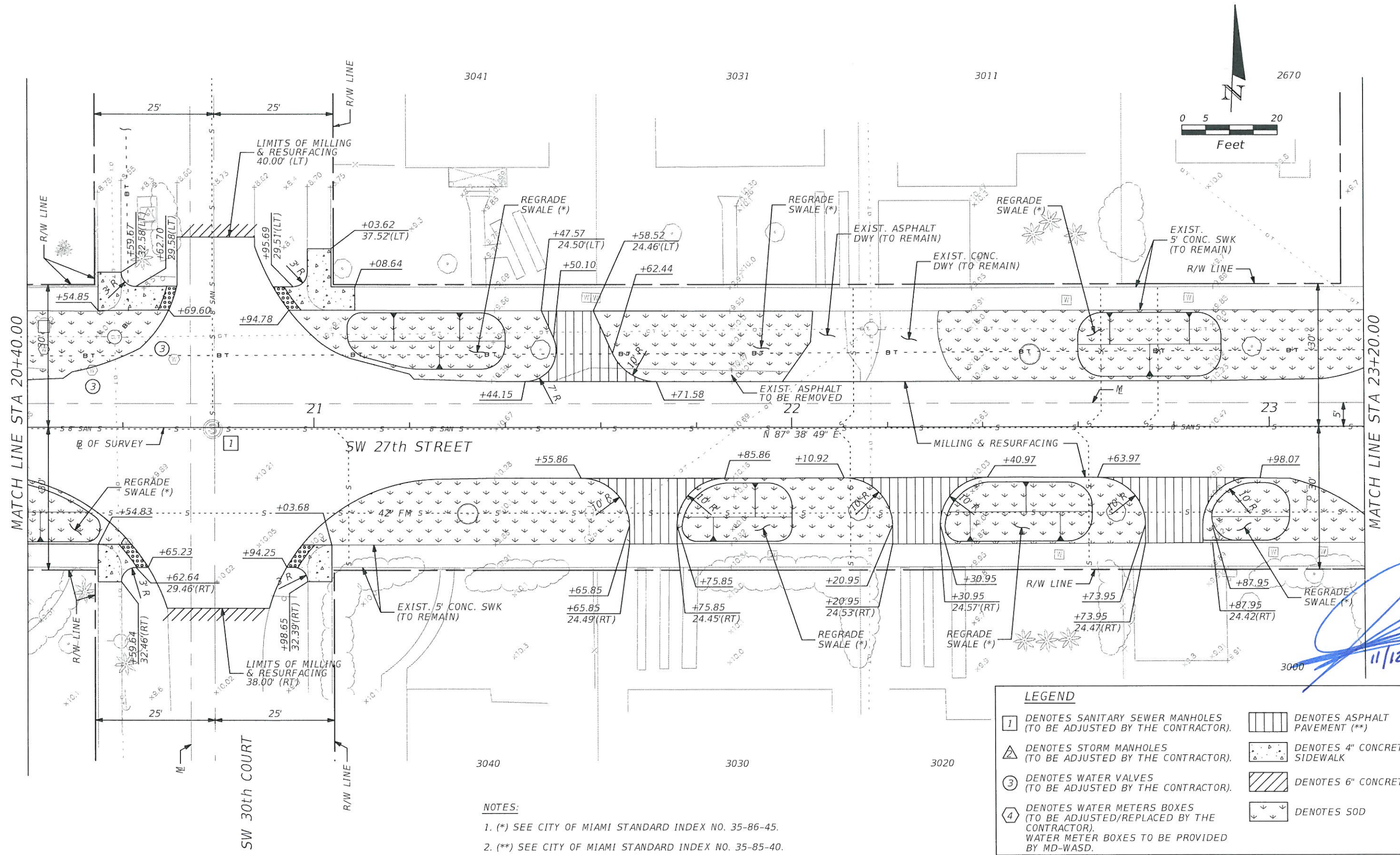
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2	DENOTES STORM MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR).	[Dotted Box]	DENOTES 4\"/>
3	DENOTES WATER VALVES (TO BE ADJUSTED BY THE CONTRACTOR).	[Diagonal Hatched Box]	DENOTES 6\"/>
4	DENOTES WATER METERS BOXES (TO BE ADJUSTED/REPLACED BY THE CONTRACTOR). WATER METER BOXES TO BE PROVIDED BY MD-WASD.	[Downward Arrow Box]	DENOTES SOD
		[Cross-hatched Box]	WIDENING

NOTES:

- (*) SEE CITY OF MIAMI STANDARD INDEX NO. 35-86-45.
- (**) SEE CITY OF MIAMI STANDARD INDEX NO. 35-85-40.

Handwritten signature and date: 11/12/15

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		DATE	BY	DESCRIPTION				<p>R.J. Behar & Company, Inc. Engineers • Planners 6861 S.W. 196 AVENUE, SUITE 302 PEMBROKE PINES, FL 33332 JAVIER RODRIGUEZ, P.E. LICENSE NO. 48264 CERTIFICATE OF AUTHORIZATION NO. 00008365</p>	<p>CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM 444 S.W. 2ND AVENUE, 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253</p>	<p>CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM</p> <table border="1"> <tr> <th>PROJECT NAME</th> <th>PROJECT No.</th> </tr> <tr> <td>SW 27th St ROADWAY IMPROVEMENT</td> <td>B-50204</td> </tr> </table>	PROJECT NAME	PROJECT No.	SW 27th St ROADWAY IMPROVEMENT	B-50204	<p>ROADWAY PLAN</p>	<p>SHEET NO. 10</p>
DATE	BY	DESCRIPTION														
PROJECT NAME	PROJECT No.															
SW 27th St ROADWAY IMPROVEMENT	B-50204															



LEGEND

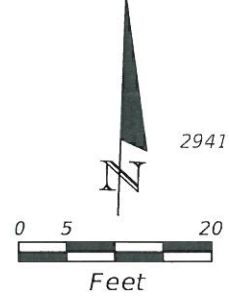
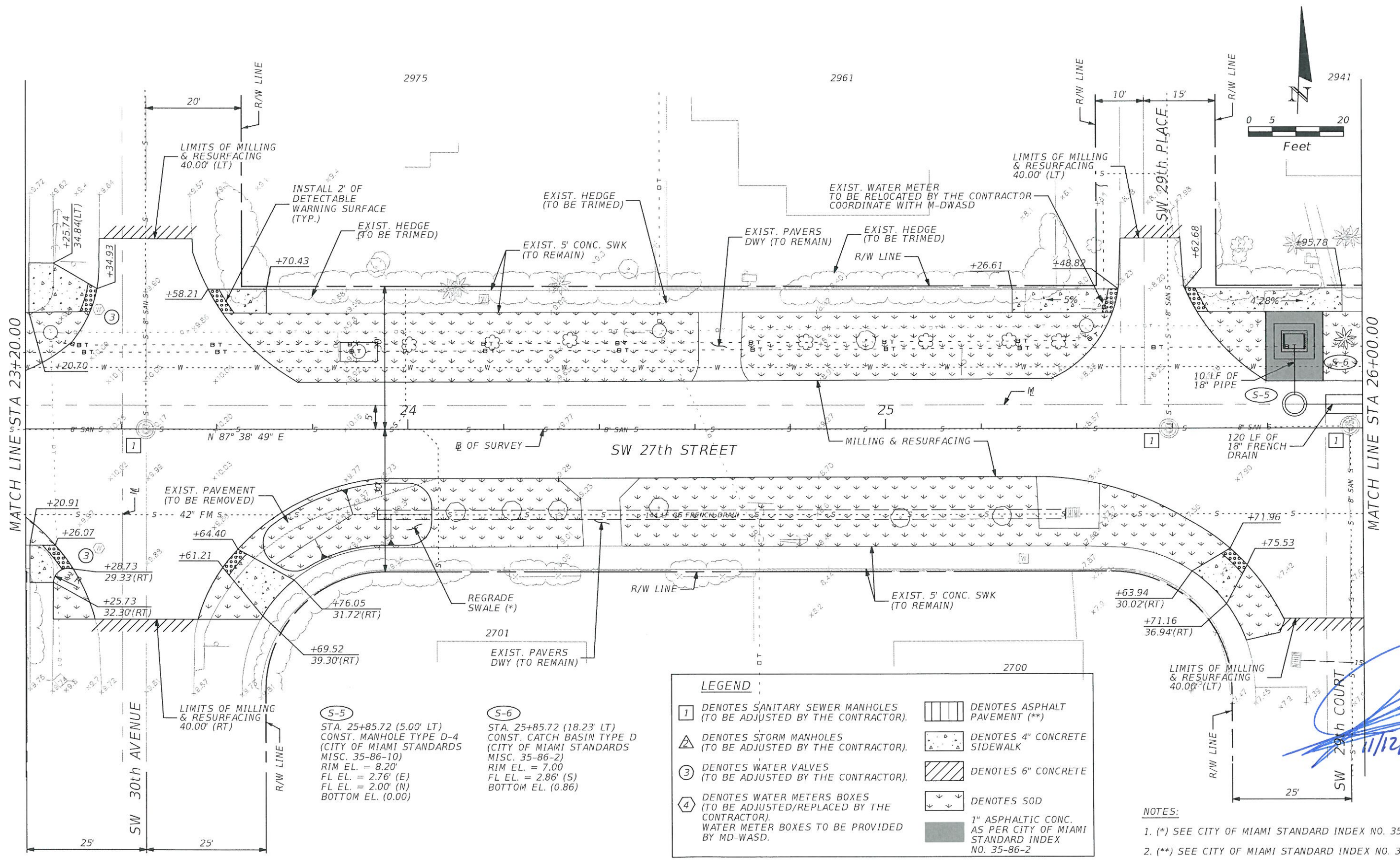
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3	DENOTES WATER VALVES (TO BE ADJUSTED BY THE CONTRACTOR).	[Diagonal Lines Box]	DENOTES 6" CONCRETE
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NOTES:

- (*) SEE CITY OF MIAMI STANDARD INDEX NO. 35-86-45.
- (**) SEE CITY OF MIAMI STANDARD INDEX NO. 35-85-40.

[Handwritten Signature]
11/12/15

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DATE	BY	DESCRIPTION														



LEGEND

①	DENOTES SANITARY SEWER MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR).	[Hatched Box]	DENOTES ASPHALT PAVEMENT (**)
⚠	DENOTES STORM MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR).	[Dotted Box]	DENOTES 4" CONCRETE SIDEWALK
③	DENOTES WATER VALVES (TO BE ADJUSTED BY THE CONTRACTOR).	[Diagonal Lines Box]	DENOTES 6" CONCRETE
④	DENOTES WATER METERS BOXES (TO BE ADJUSTED/REPLACED BY THE CONTRACTOR). WATER METER BOXES TO BE PROVIDED BY MD-WASD.	[Downward Arrows Box]	DENOTES SOD
		[Solid Grey Box]	1" ASPHALTIC CONC. AS PER CITY OF MIAMI STANDARD INDEX NO. 35-86-2

- (S-5) STA. 25+85.72 (5.00' LT) CONST. MANHOLE TYPE D-4 (CITY OF MIAMI STANDARDS MISC. 35-86-10) RIM EL. = 8.20' FL EL. = 2.76' (E) FL EL. = 2.00' (N) BOTTOM EL. (0.00)
- (S-6) STA. 25+85.72 (18.23' LT) CONST. CATCH BASIN TYPE D (CITY OF MIAMI STANDARDS MISC. 35-86-2) RIM EL. = 7.00 FL EL. = 2.86' (S) BOTTOM EL. (0.86)

- NOTES:**
- (*) SEE CITY OF MIAMI STANDARD INDEX NO. 35-86-45.
 - (**) SEE CITY OF MIAMI STANDARD INDEX NO. 35-85-40.

11/12/15

REVISIONS	
DATE	DESCRIPTION

R.J. Behar & Company, Inc.
 Engineers • Planners
 6861 S.W. 196 AVENUE, SUITE 302
 PEMBROKE PINES, FL 33332
 JAVIER RODRIGUEZ, P.E. LICENSE NO. 48264
 CERTIFICATE OF AUTHORIZATION NO. 00008365

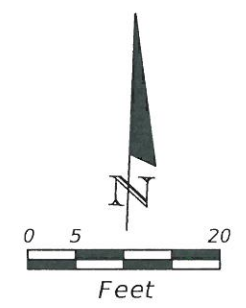
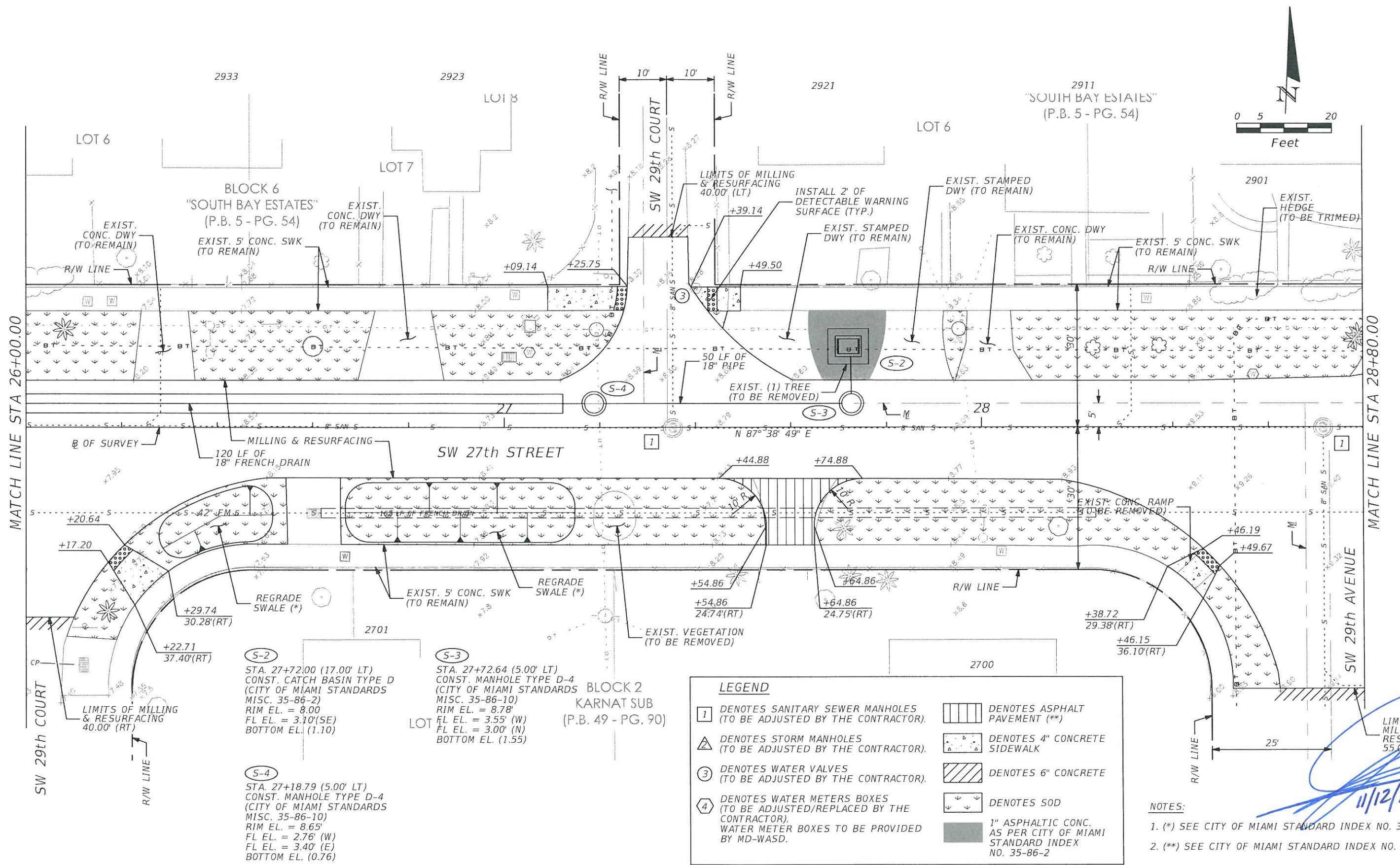


CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 444 S.W. 2ND AVENUE, 8TH FLOOR
 MIAMI, FLORIDA 33130
 (305) 416-1213 FAX (305) 416-1253

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
SW 27th St ROADWAY IMPROVEMENT	B-50204

ROADWAY PLAN

SHEET NO.
12



MATCH LINE STA 26+00.00

MATCH LINE STA 28+80.00

(S-2)
 STA. 27+72.00 (17.00' LT)
 CONST. CATCH BASIN TYPE D
 (CITY OF MIAMI STANDARDS
 MISC. 35-86-2)
 RIM EL. = 8.00
 FL EL. = 3.10'(SE)
 BOTTOM EL. (1.10)

(S-3)
 STA. 27+72.64 (5.00' LT)
 CONST. MANHOLE TYPE D-4
 (CITY OF MIAMI STANDARDS
 MISC. 35-86-10)
 RIM EL. = 8.78'
 FL EL. = 3.55' (W)
 FL EL. = 3.00' (N)
 BOTTOM EL. (1.55)

(S-4)
 STA. 27+18.79 (5.00' LT)
 CONST. MANHOLE TYPE D-4
 (CITY OF MIAMI STANDARDS
 MISC. 35-86-10)
 RIM EL. = 8.65'
 FL EL. = 2.76' (W)
 FL EL. = 3.40' (E)
 BOTTOM EL. (0.76)

LEGEND	
1	DENOTES SANITARY SEWER MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR).
2	DENOTES STORM MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR).
3	DENOTES WATER VALVES (TO BE ADJUSTED BY THE CONTRACTOR).
4	DENOTES WATER METERS BOXES (TO BE ADJUSTED/REPLACED BY THE CONTRACTOR). WATER METER BOXES TO BE PROVIDED BY MD-WASD.
	DENOTES ASPHALT PAVEMENT (**)
	DENOTES 4" CONCRETE SIDEWALK
	DENOTES 6" CONCRETE
	DENOTES SOD
	1" ASPHALTIC CONC. AS PER CITY OF MIAMI STANDARD INDEX NO. 35-86-2

NOTES:
 1. (*) SEE CITY OF MIAMI STANDARD INDEX NO. 35-86-45.
 2. (**) SEE CITY OF MIAMI STANDARD INDEX NO. 35-85-40.

11/12/15

REVISIONS		
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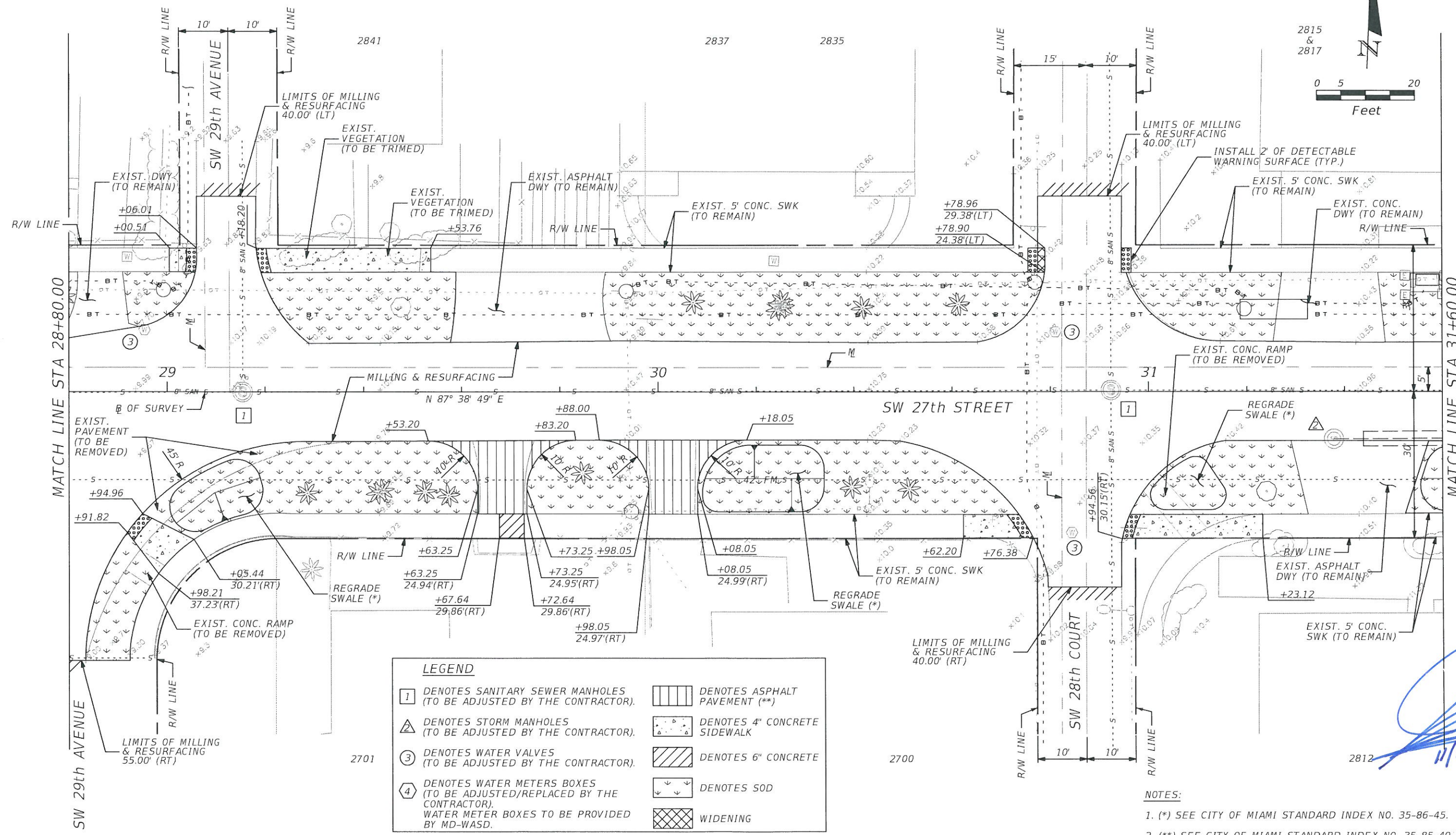
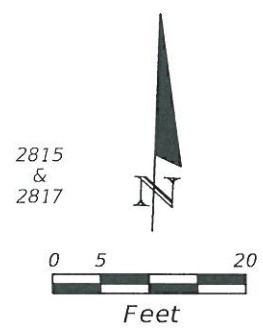


CITY OF MIAMI
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 MIAMI, FLORIDA 33130
 (305) 416-1213 FAX (305) 416-1253

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
SW 27th St ROADWAY IMPROVEMENT	B-50204

ROADWAY PLAN

SHEET NO.
 13



LEGEND


1	DENOTES SANITARY SEWER MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR).	[Hatched Box]	DENOTES ASPHALT PAVEMENT (**)
2	DENOTES STORM MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR).	[Dotted Box]	DENOTES 4" CONCRETE SIDEWALK
3	DENOTES WATER VALVES (TO BE ADJUSTED BY THE CONTRACTOR).	[Diagonal Lines Box]	DENOTES 6" CONCRETE
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		[Cross-hatched Box]	WIDENING

- NOTES:**
- (*) SEE CITY OF MIAMI STANDARD INDEX NO. 35-86-45.
 - (**) SEE CITY OF MIAMI STANDARD INDEX NO. 35-85-40.

[Handwritten Signature]
11/12/15

REVISIONS	
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Engineers • Planners
6861 S.W. 196 AVENUE, SUITE 302
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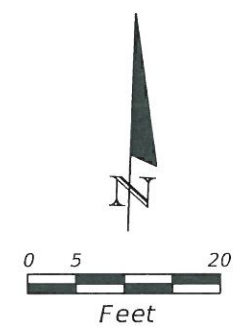
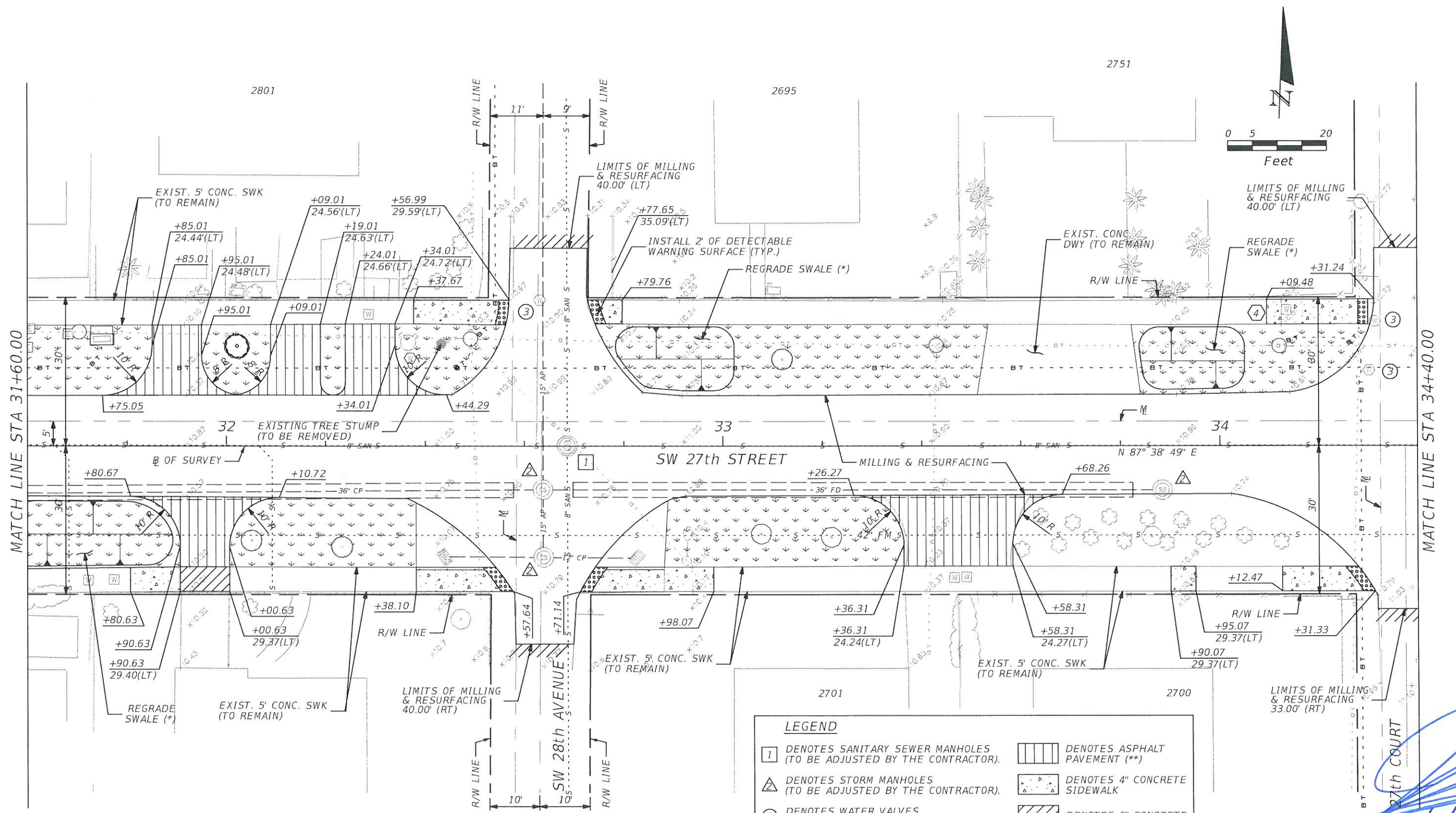


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MIAMI, FLORIDA 33130
(305) 416-1213 FAX (305) 416-1253

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
SW 27th St ROADWAY IMPROVEMENT	B-50204

ROADWAY PLAN

SHEET NO.
14



MATCH LINE STA 31+60.00

MATCH LINE STA 34+40.00

- NOTES:**
- (*) SEE CITY OF MIAMI STANDARD INDEX NO. 35-86-45.
 - (**) SEE CITY OF MIAMI STANDARD INDEX NO. 35-85-40.

LEGEND	
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[Dotted Box]	DENOTES 4" CONCRETE SIDEWALK
[Diagonal Lines Box]	DENOTES 6" CONCRETE
[Downward Arrow Box]	DENOTES SOD
[Circle with Dot]	PROPOSED TREE

11/12/16

REVISIONS	
DATE	DESCRIPTION

R.J. Behar & Company, Inc.
 Engineers • Planners
 6861 S.W. 198 AVENUE, SUITE 302
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 JAVIER RODRIGUEZ, P.E. LICENSE NO. 48264
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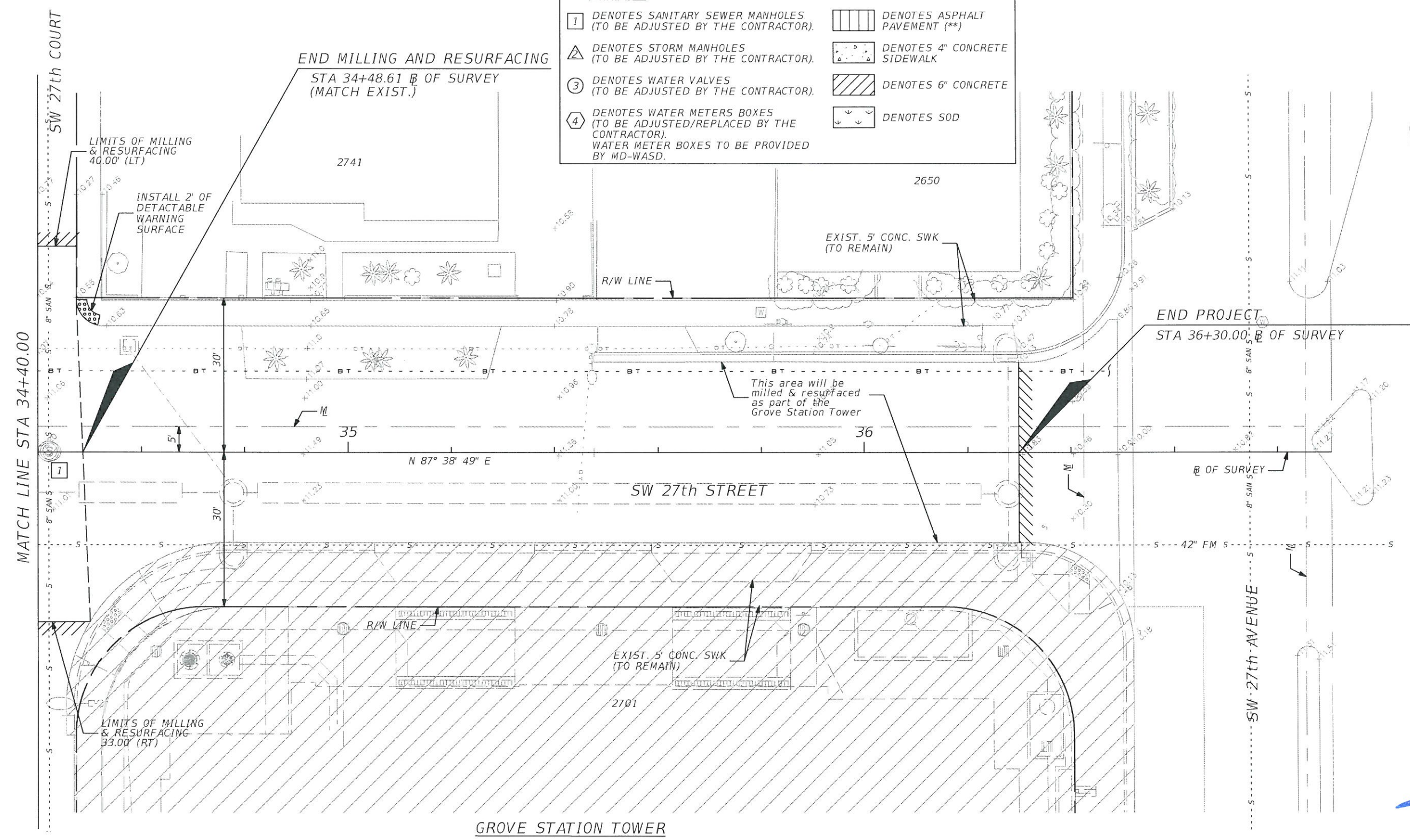
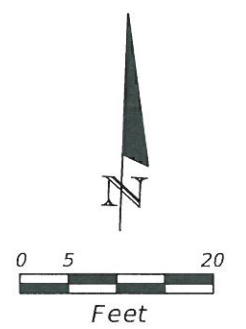
CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
SW 27th St ROADWAY IMPROVEMENT	B-50204

ROADWAY PLAN

SHEET NO.
15

LEGEND

① DENOTES SANITARY SEWER MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR).	DENOTES ASPHALT PAVEMENT (**)
⚠ DENOTES STORM MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR).	DENOTES 4" CONCRETE SIDEWALK
③ DENOTES WATER VALVES (TO BE ADJUSTED BY THE CONTRACTOR).	DENOTES 6" CONCRETE
④ DENOTES WATER METERS BOXES (TO BE ADJUSTED/REPLACED BY THE CONTRACTOR). WATER METER BOXES TO BE PROVIDED BY MD-WASD.	DENOTES SOD



[Handwritten Signature]
11/12/15

- NOTES:**
- (*) SEE CITY OF MIAMI STANDARD INDEX NO. 35-86-45.
 - (**) SEE CITY OF MIAMI STANDARD INDEX NO. 35-85-40.

REVISIONS	
DATE	DESCRIPTION

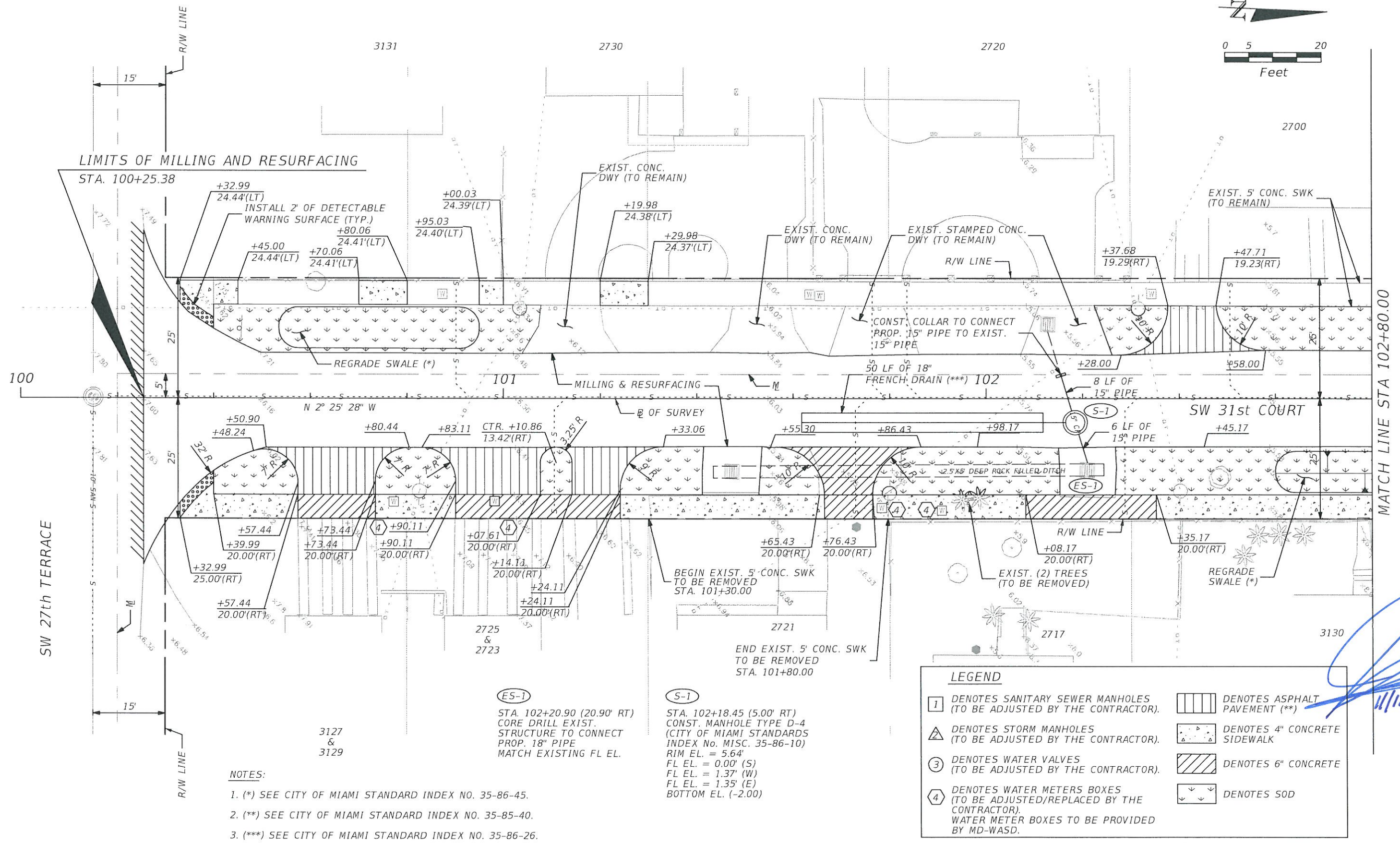
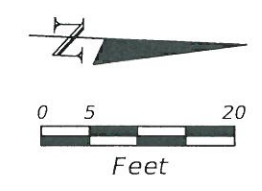
R.J. Behar & Company, Inc.
Engineers • Planners
6861 S.W. 196 AVENUE, SUITE 302
PEMBROKE PINES, FL 33332
JAVIER RODRIGUEZ, P.E. LICENSE NO. 48264
CERTIFICATE OF AUTHORIZATION NO. 00008365

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.
SW 27th St ROADWAY IMPROVEMENT	B-50204

ROADWAY PLAN

SHEET NO.
16



- NOTES:**
- (*) SEE CITY OF MIAMI STANDARD INDEX NO. 35-86-45.
 - (**) SEE CITY OF MIAMI STANDARD INDEX NO. 35-85-40.
 - (***) SEE CITY OF MIAMI STANDARD INDEX NO. 35-86-26.

ES-1
 STA. 102+20.90 (20.90' RT)
 CORE DRILL EXIST.
 STRUCTURE TO CONNECT
 PROP. 18" PIPE
 MATCH EXISTING FL EL.

S-1
 STA. 102+18.45 (5.00' RT)
 CONST. MANHOLE TYPE D-4
 (CITY OF MIAMI STANDARDS
 INDEX No. MISC. 35-86-10)
 RIM EL. = 5.64'
 FL EL. = 0.00' (S)
 FL EL. = 1.37' (W)
 FL EL. = 1.35' (E)
 BOTTOM EL. (-2.00')

LEGEND

DENOTES SANITARY SEWER MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR).	DENOTES ASPHALT PAVEMENT (**)
DENOTES STORM MANHOLES (TO BE ADJUSTED BY THE CONTRACTOR).	DENOTES 4" CONCRETE SIDEWALK
DENOTES WATER VALVES (TO BE ADJUSTED BY THE CONTRACTOR).	DENOTES 6" CONCRETE
DENOTES WATER METERS BOXES (TO BE ADJUSTED/REPLACED BY THE CONTRACTOR). WATER METER BOXES TO BE PROVIDED BY MD-WASD.	DENOTES SOD

[Handwritten signature]
 11/12/15

REVISIONS	
DATE	DESCRIPTION

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 MIAMI, FLORIDA 33130
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CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 PROJECT NAME: SW 27th St ROADWAY IMPROVEMENT
 PROJECT No.: B-50204

ROADWAY PLAN
 SHEET NO. 17

TRAFFIC CONTROL PLANS:

1. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE CURRENT EDITION OF THE FLORIDA DOT DESIGN STANDARDS (600 SERIES), THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS MINIMUM CRITERIA.
2. NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE. DETOUR OR MOT PHASE CHANGE SHALL BE SUBMITTED WITH THE REQUIRED LANE CLOSURE FORM, SKETCHES, CALCULATIONS, AND OTHER DATA TO THE ENGINEER.
3. AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
4. 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 THE AREA.
5. LANE CLOSURES SHALL OCCUR ONLY DURING NON-PEAK HOURS ON NON-EVENT DAYS/NIGHTS/WEEKENDS. NON-PEAK HOURS ARE: 9:00 AM TO 3:30 PM WEEKDAYS AND WEEKENDS.
6. TRAFFIC CONTROL PLANS FOR ALL PHASES ARE DESIGNED FOR NON-PEAK HOURS ONLY. THE CONTRACTOR SHALL KEEP ALL EXISTING LANES OPEN DURING PEAK HOURS IN THESE PHASES.
7. AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
8. CONTRACTOR SHALL REMOVE, RELOCATE OR COVER ANY EXISTING OR PROPOSED SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS TO THE ORIGINAL POSITION. COST OF TEMPORARILY REMOVING, RELOCATING, COVERING AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE ENGINEER. COST FOR REMOVING THE WATER SHALL BE INCLUDED PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
10. COST OF REMOVAL OF WORK ZONE PAVEMENT MARKINGS (INCLUDING PAINT, REMOVAL TAPE AND MARKERS), REGARDLESS OF METHOD, TO BE INCLUDED IN THE RELATED PAVEMENT MARKING/MARKERS PAY ITEMS. COST OF REMOVAL OF PAVEMENT MARKINGS AND MARKERS, EXISTING PRIOR TO CONSTRUCTION, TO BE INCLUDED IN MAINTENANCE OF TRAFFIC, PAY ITEM 102-1. USE OF BLACK PAINT TO COVER EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS IS PROHIBITED. GRIDDING OR MILLING SHALL ONLY BE PERMITTED IN NON-TRAFFIC AREAS.
11. TEMPORARY LANE TRANSITIONS, SHIFTS, AND CROSSEOVERS SHALL HAVE SOLID LANE AND EDGE LINES FOR THE LENGTH OF THE TRANSITION, SHIFT OR CROSSEOVER. IN ADDITION, SOLID LANE AND EDGE LINES SHALL EXTEND 100 FT ON TANGENT BEYOND EACH END OF THE TRANSITION, SHIFT, OR CROSSEOVER. EXCEPTION SHALL BE THROUGH INTERSECTIONS WHERE 2 FT TO 4 FT SKIP LINES WILL BE PLACED.
12. ALL TEMPORARY STRIPES AND MARKINGS SHALL BE PAINT ONLY, UNLESS OTHERWISE SPECIFIED ON THE PLANS OR APPROVED BY THE ENGINEER.
13. CONTRACTOR TO MAINTAIN LEFT TURNS AT THE INTERSECTIONS WITH STORAGE FOR TWO VEHICLES.
14. FOR DROP OFFS, THE CONTRACTOR'S ATTENTION IS DIRECTED TO STANDARD INDEX NO. 600, SHEET 10 OF 13. THE CONTRACTOR SHALL USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS.
15. CONTRACTOR SHALL PREPARE AND SUBMIT AN ACCEPTABLE TCP PLAN FOR THE PROJECT. THE TCP PLAN SHALL BE SUBMITTED TO THE CITY OF MIAMI'S PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL.

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PEDESTRIANS, BICYCLES, AND WHEELCHAIRS:

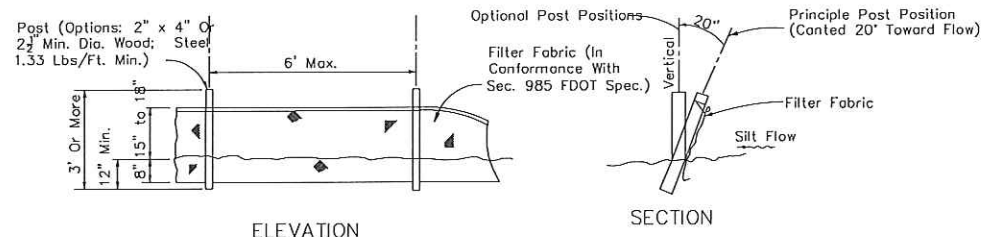
16. AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF GREATER THAN 6 IN. ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH THE SAID PATHS OR PROTECTED WITH TEMPORARY FENCE, CONCRETE BARRIER WALL OR APPROVED HANRAIL. COST SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
17. CONSTRUCTION ACTIVITIES THAT INVOLVES SIDEWALKS ON BOTH SIDES OF THE STREET ARE NOT ALLOWED UNLESS APPROVED BY THE ENGINEER.
18. MAINTAIN PEDESTRIAN ACCESS TO BUS STOP LOCATIONS IN PROJECT AREA. IF BUS STOP MUST BE RELOCATED DUE TO CONSTRUCTION ACTIVITIES, PLEASE CONTACT MR. BOB PEARSALL, MDT (786) 469-5163 (RPEAR@MIAMIDADE.ORG).

REVISIONS			R.J. Behar & Company, Inc. Engineers • Planners 6881 S.W. 196 AVENUE, SUITE 302 PEMBROKE PINES, FL 33332 JAVIER RODRIGUEZ, P.E. LICENSE NO. 48264 CERTIFICATE OF AUTHORIZATION NO. 00008365	 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		TEMPORARY TRAFFIC CONTROL NOTES	SHEET NO. 18
DATE	BY	DESCRIPTION			PROJECT NAME	PROJECT No.		
					SW 27th St ROADWAY IMPROVEMENT	B-50204		

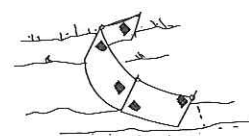
SWPPP – DETAILS

SWPPP INDEX:

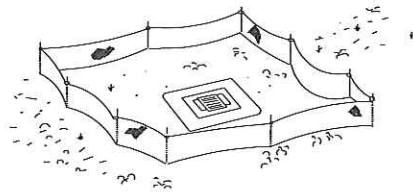
- SWPPP-DETAILS – PAGE 1
- SWPPP-NARRATIVE – PAGE 2



SILT FENCE DETAIL
N.T.S.



Type III Silt Fence

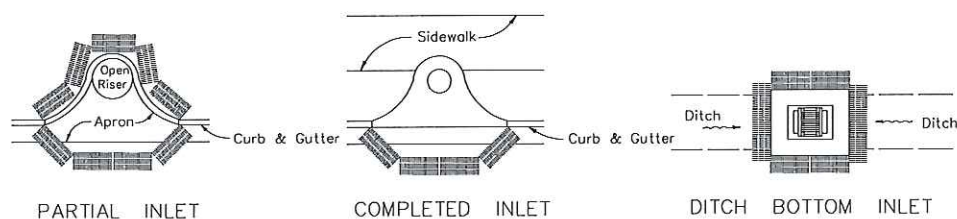


Type III Silt Fence Protection Around Ditch Bottom Inlets.

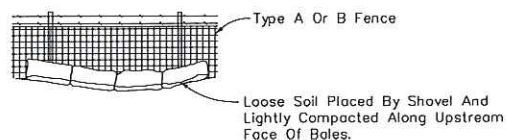
Notes:

1. Spacing for Type III Fence to be in accordance with the Florida Erosion and Sediment Control Manual
2. 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
N.T.S.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
N.T.S.



BALES BACKED BY FENCE
N.T.S.

NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS

1. Type I and II Synthetic Barrier should be in accordance with the Florida Erosion and Sediment Control Manual.
2. Bales shall be anchored with 2-1" x 2" (or 1" dia.) x 4' wood stakes. Stakes of other material or shape providing equivalent strength may be used if approved by the Engineer. Stakes other than wood shall be removed upon completion of the project.
3. Rails and posts shall be 2" x 4" wood. Other materials providing equivalent strength may be used if approved by the Engineer.
4. Adjacent bales shall be butted firmly together.
5. Where used in conjunction with silt fence, bales shall be placed on the upstream side of the fence.

STORM WATER POLLUTION PREVENTION PRACTICES:
(FOR PROJECTS OF 0.5 ACRE OR MORE – CITY ORDINANCE No. 13081)

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 and City Ordinance 13081.
 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 and City Ordinance 13081.
- * NPDES – NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM Authorized by NPDES permit FLS 000002.
BMP – Best Management Practice.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) CHECKLIST

- A. SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS:
 1. CLEAR & GRUBBING
 2. INSTALL DRAINAGE STRUCTURES AND REGRADE SWALES
 3. STABILIZATION
 4. BASE PREPARATION
 5. ASPHALT APPLICATION
 6. PLACEMENT OF ROCK BAGS AROUND INLETS
 7. PLACEMENT OF ROCK BAGS AROUND MANHOLES
 8. APPLICATION OF FRICTION COURSE A.C.
 9. INSTALLATION OF STREET SIGNING
 10. PAVEMENT MARKING
 11. REMOVE ROCK BAGS
 12. CLEAN ALL CONSTRUCTION DEBRIS FROM CONSTRUCTION SITE
- B. 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/

NOTES:

Total Acreage of Disturbed Soil 1.28 AC
PW NPDES Permit No. _____
Date Issued: _____

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11/12/15

REVISIONS			R.J. Behar & Company, Inc. Engineers • Planners 6861 S.W. 196 AVENUE, SUITE 302 PEMBROKE PINES, FL 33332 JAVIER RODRIGUEZ, P.E. LICENSE NO. 48264 CERTIFICATE OF AUTHORIZATION NO. 00008365	 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		SWPPP NOTES AND DETAILS	SHEET NO. 19
DATE	BY	DESCRIPTION			PROJECT NAME	PROJECT No.		
					SW 27th St ROADWAY IMPROVEMENT	B-50204		

1. PROJECT/SITE DESCRIPTION

a. CONSTRUCTION ACTIVITY:

PROPOSED ROADWAY AND DRAINAGE IMPROVEMENTS CONSIST OF MILLING, RESURFACING, CONSTRUCTION OF DRIVEWAYS, REGRADING SWALES, MINOR DRAINAGE IMPROVEMENTS, DAMAGED SIDEWALK REPLACEMENT, SODDING, STRIPING, SIGNAGE, ADA RAMPS.

PROJECT LIMITS:

SW 27th Street from SW 27th Avenue to SW 32nd Avenue and SW 31st Court from SW 27th Terrace to SW 27th Street

PROJECT DESCRIPTION:

THE CITY OF MIAMI IS PROPOSING IMPROVEMENTS ALONG SW 27th ST FROM SW 27th AVE TO SW 32nd AVE AND SW 31st CT FROM SW 27th TERR TO SW 27th ST. THESE IMPROVEMENTS CONSIST OF MILLING, RESURFACING, CONSTRUCTION OF DRIVEWAYS, REGRADING SWALES, MINOR DRAINAGE IMPROVEMENTS, DAMAGED SIDEWALK REPLACEMENT, SODDING, STRIPING, SIGNAGE, ADA RAMPS.

b. MAJOR SOIL DISTURBING ACTIVITIES:

- CLEARING & GRUBBING
 - REGULAR EXCAVATION
 - GRADING SLOPES
 - REMOVAL OF EXISTING PAVEMENT
 - DRAINAGE – STRUCTURE CONSTRUCTION
 - EARTHWORK ASSOCIATED WITH DRAINAGE TRENCH EXCAVATION, SUBGRADE, BASE, PAVEMENT AND SIDEWALK CONSTRUCTION
 - ROADWAY CONSTRUCTION
- FOR A DETAILED SEQUENCE OF CONSTRUCTION REFER TO THE TRAFFIC CONTROL PLANS.

c. TOTAL PROJECT AREA:

B-50204 – 3.86 AC

TOTAL AREA TO BE DISTURBED:

B-50204 – 1.28 AC

d. (1) RUNOFF COEFFICIENTS BEFORE, DURING, AND AFTER CONSTRUCTION:

CN BEFORE = 0.82
CN DURING = 0.80
CN AFTER = 0.82

(2) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:

SEE ROADWAY SOIL SURVEY SHEET IN THE ROADWAY SET OF PLANS

(3) ESTIMATES OF SIZE OF DRAINAGE AREA FOR EACH OUTFALL:

THE PROPOSED SYSTEM IS NOT CONNECTED TO ANY OUTFALLS, IT IS A SELF-CONTAINED SYSTEM.

e. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS :

SEE DRAINAGE MAPS AND DRAINAGE STRUCTURE SHEETS IN THIS SET OF PLANS
OUTFALL STRUCTURE LOCATIONS: THE PROPOSED SYSTEM IS NOT CONNECTED TO ANY OUTFALLS, IT IS A SELF-CONTAINED SYSTEM.

f. (1) NAME OF RECEIVING WATERS:

NONE

(2) WETLAND AREA:

THERE ARE NO WETLANDS AREA ON THE PROJECT SITE.

2. CONTROLS

NARRATIVE – SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS:

PRIOR TO THE START OF CLEARING AND GRUBBING OPERATIONS, SILT FENCE, WIND SCREEN AND SYNTHETIC BALES SHALL BE INSTALLED AS SHOWN ON THE PLANS FOR EACH PHASE OF CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. THE SILT FENCE, SHALL REMAIN IN PLACE UNTIL THE CONSTRUCTION IS COMPLETED OR AS DIRECTED BY THE ENGINEER. TEMPORARY SODDING, PERMANENT SODDING, ETC SHALL BE PLACED IN DISTURBED SOILS. ALL DISCHARGE FROM DEWATERING PUMPS WILL BE DIRECTED TO THE INTERCHANGE INFIELD AREAS. REFER TO SWPPP PAGE 1 FOR ADDITIONAL INFORMATION.

a. EROSION AND SEDIMENT CONTROLS:

(1) STABILIZATION PRACTICES:

- ___ TEMPORARY SODDING
- ___ TEMPORARY GRASSING
- ___ PERMANENT PLANTING, SODDING, OR SEEDING
- ___ TEMPORARY MULCHING
- ___ ARTIFICIAL COVERING
- ___ BUFFER ZONES
- ___ PRESERVATION OF NATURAL RESOURCES
- ___ OTHER : THE CONTRACTOR IS TO MAINTAIN THE EXISTING VEGETATION WHEREVER POSSIBLE AND PERFORM DAILY DUST CONTROL.

(1) STRUCTURAL PRACTICES:

- SAND BAGGING
- SILT FENCES
- ___ WIND SCREEN
- ___ SYNTHETIC BALES
- ___ BERMS
- ___ DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES
- ___ PIPE SLOPE DRAINS
- ___ FLUMES
- ___ ROCK BEDDING AT CONSTRUCTION EXIT
- ___ TIMBER BEDDING AT CONSTRUCTION EXIT
- ___ DITCH LINER
- ___ SEDIMENT TRAPS
- ___ SEDIMENT BASINS
- ___ STORM INLET SEDIMENT TRAP
- ___ STONE OUTLET STRUCTURES
- ___ CURBS AND GUTTERS
- ___ STORM SEWERS
- ___ VELOCITY CONTROL DEVICES
- ___ TURBIDITY BARRIER
- ___ RIP RAP
- ___ OTHER :

b. DESCRIPTION OF STORM WATER MANAGEMENT:

THE WATER QUALITY NECESSARY FOR THE PROJECT WILL BE PROVIDED BY 100 LF OF 18" FD AND EXISTING 200 LF OF COVERED DITCH AND 500 LF OF FD.

c. OTHER CONTROLS

(1) WASTE DISPOSAL:

ANY CONSTRUCTION DEBRIS GENERATED AS A RESULT OF THIS PROJECT WILL BE DISPOSED OF OFF-SITE AT AN APPROPRIATE WASTE DISPOSAL FACILITY

a.) CONCRETE WASH OUT LOCATIONS WILL BE PROVIDED IN AREAS WHERE THE DISPOSAL MATERIALS WILL BE CONTAINED SO AS TO PREVENT DISCHARGE OUTSIDE OF THE PROJECT LIMITS AND INTO THE WATERWAYS.

b.) NEW DRAINAGE STRUCTURES WILL BE PROTECTED WITH SYNTHETIC BALES AND/OR FILTER FABRIC.

c.) STAGING AREAS WILL BE LOCATED WITHIN THE PROJECT WORK ZONE UNLESS REQUESTED OTHERWISE FOR APPROVAL.

d.) LITTER WILL BE DEPOSITED IN APPROPRIATE LOCATIONS. A DUMPSTER MAY BE PROVIDED AT THE SITE DEPENDING ON THE AMOUNT OF LITTER GENERATED.

e.) LOADED TRUCKS WILL BE COVERED WITH TARPS

f.) SWEEPERS AND/OR WATER TRUCKS WILL BE PROVIDED TO REDUCE DUST DAILY.

g.) SOIL PREVENTION TRACKING WILL BE INSTALLED AS PER THE SWPPP AND/OR AS DIRECTED BY CITY INSPECTOR.

(2) OFFSITE VEHICLE TRACKING:

- ___ HAUL ROADS DAMPENED FOR DUST CONTROL
- ___ LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
- ___ EXCESS DIRT ON ROAD REMOVED DAILY
- ___ STABILIZED CONSTRUCTION ENTRANCE
- ___ WATER TRUCK SCHEDULING
- ___ STREET SWEEPING (DAILY)
- ___ OTHER :

(3) SANITARY WASTE:

(4) FERTILIZERS, PESTICIDES AND TREES:

NO FERTILIZERS OR PESTICIDES WILL BE USED AT THE SITE. PROTECT ALL TREES WITHIN PROJECT LIMITS AS PER FDOT INDEX No. 544.

(5) TOXIC SUBSTANCES:

TOXIC SUBSTANCES WILL NOT BE STORED AT THE SITE.

(6) NON-STORM WATER DISCHARGE (INCLUDING SPILL REPORTING):

NO NON-STORMWATER DISCHARGES ARE ANTICIPATED AT THIS TIME. CONTAMINATED SOIL OR GROUNDWATER ENCOUNTERED SHALL BE REPORTED IMMEDIATELY TO THE CITY PERSONNEL IN ACCORDANCE WITH PW BULLETIN No. 25. IF DEWATERING IS IMPLEMENTED, THE WATER WILL BE DEPOSITED IN A CONTROLLED AREA ON-SITE TO PREVENT OFF-SITE DISCHARGE OR AS APPROVED BY PERMIT.

(7) EROSION CONTROL DEVICES

LOCATIONS AND TYPES OF ALL EROSION CONTROL DEVICES SHALL BE INSTALLED AS DIRECTED BY PLAN AND/OR BY THE CITY OF MIAMI. CONTRACTOR SHALL IMPLEMENT THE SWPPP AS PER THE CONTRACT PLANS AND MAY BE REVISED BASED ON ACTUAL FIELD CONDITIONS AT THE TIME WORK IS BEING PERFORMED. FIELD MODIFICATIONS WILL BE APPROVED BY THE CITY OF MIAMI. MONITORING SHALL BE PERFORMED ON A WEEKLY BASIS AND AFTER A 1/2" STORM EVENT WITH ROUTINE MAINTENANCE AND REPLACEMENT OF ANY DEVICES AS REQUIRED. CONTAINMENT OR REMOVAL OF POLLUTANTS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND CITY OF MIAMI REGULATIONS AND/OR FDOT STANDARD SPECIFICATIONS. THE RESPONSIBLE PERSONS FOR MONITORING AND MAINTAINING THE EROSION CONTROL DEVICES SHALL BE:

CONTRACTOR: _____ TELEPHONE: _____

REMARKS:

IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE CITY OF MIAMI PROJECT MANAGER.

d. APPROVED STATE, LOCAL PLANS, OR STORM WATER PERMITS: (CHECK ALL THAT APPLY)

- 1. NPDES PERMIT (1.0 ACRE OR MORE)
- 2. NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) FOR PROJECTS DISTURBING MORE THAN 1 ACRE.
- 3. DADE COUNTY DEPARTMENT ON ENVIRONMENTAL RESOURCE MANAGEMENT (DERM) CLASS II-STORMWATER MANAGEMENT PERMIT AND DEWATERING PERMIT
- 4. ENVIRONMENTAL RESOURCES (ERP) PERMIT FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)
- 5. U.S. ARMY CORP OF ENGINEERS DREDGE AND FILL PERMIT.
- 6. SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) RIGHT-OF-WAY USE PERMIT.
- 7. PUBLIC WORKS EXCAVATION PERMIT
- 8. POLICE
- 9. TREE PERMIT
- 10. CITY DEWATERING PERMIT

3. MAINTENANCE:

- ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
- BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD OF THE HEIGHT OF THE FENCE.
- PROTECT ALL INLETS SURROUNDING CONSTRUCTION SITE.
- STREET SWEEPING AND DUST PREVENTION MUST BE IMPLEMENTED DAILY.

4. INSPECTION:

- a. QUALIFIED PERSONNEL FROM THE CITY AND CONTRACTOR SHALL INSPECT THE FOLLOWING ITEMS DAILY THROUGHOUT THE CONSTRUCTION PERIOD.
- b. PREPARATION OF THE CONTRACTOR'S WEEKLY REPORT OF INSPECTION, MAINTENANCE AND REPAIRS FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE PAY ITEMS. WHERE SITES HAVE BEEN FINALLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED WEEKLY.
 - POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES
 - POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM SEWER SYSTEMS
 - DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED
 - AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION
 - STRUCTURAL CONTROLS
 - STORMWATER MANAGEMENT SYSTEMS
 - LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE
 - STREET SWEEPING AND DUST CONTROL
- c. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. IF REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF THE REPORT
- d. REMOVE EXCESS DIRT FROM ALL ROADS ADJACENT TO PROJECT AREA ON A DAILY BASIS.
- e. SEDIMENT FOUND IN DRAINAGE INSPECTION WILL REQUIRE DRAINAGE SYSTEM CLEANING BY CONTRACTOR.

[Handwritten Signature]
11/12/15

REVISIONS	
DATE	DESCRIPTION

R.J. Behar & Company, Inc.
Engineers • Planners
6861 S.W. 196 AVENUE, SUITE 302
PEMBROKE PINES, FL 33332
JAVIER RODRIGUEZ, P.E. LICENSE NO. 48264
CERTIFICATE OF AUTHORIZATION NO. 00008365



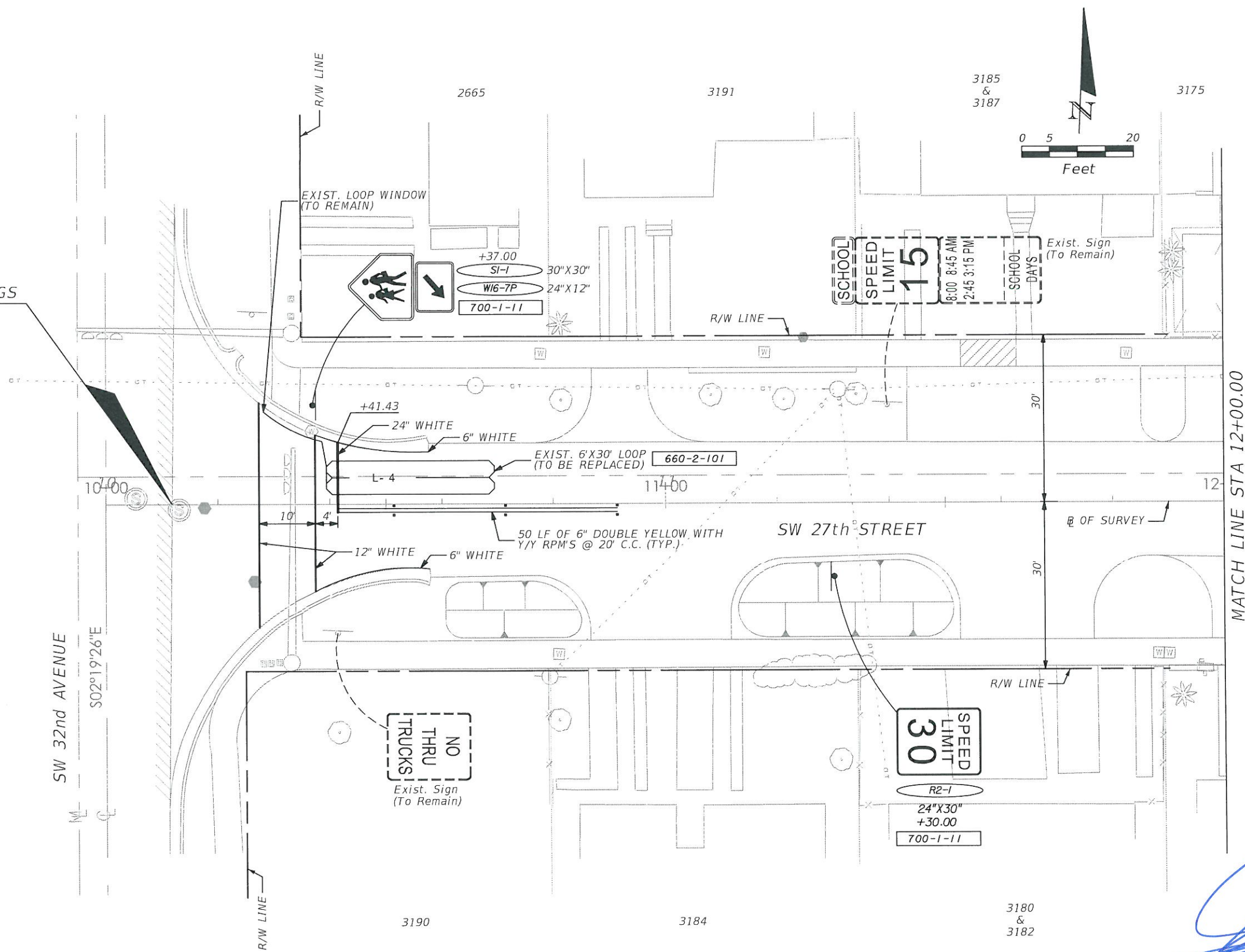
CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
444 S.W. 2ND AVENUE, 8TH FLOOR
MIAMI, FLORIDA 33130
(305) 416-1213 FAX (305) 416-1253

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
SW 27th St ROADWAY IMPROVEMENT	B-50204

SWPPP NOTES AND DETAILS	

SHEET NO.
20


BEGIN SIGNING & PAVEMENT MARKINGS
 STA 10+12.00
 (MATCH EXIST.)



[Handwritten Signature]
 11/12/15

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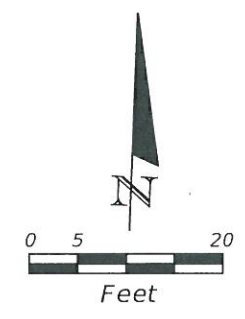
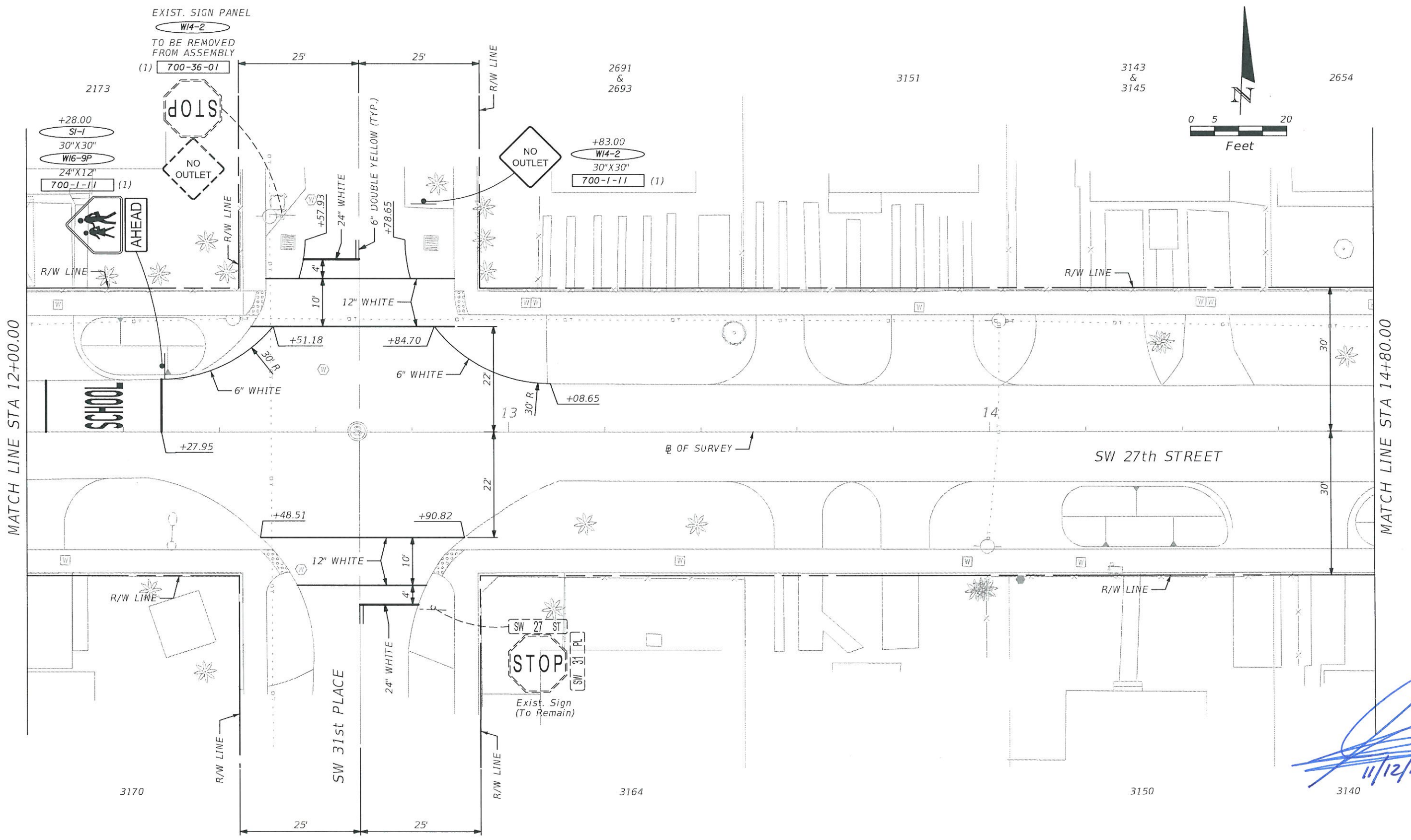


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CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
SW 27th St ROADWAY IMPROVEMENT	B-50204

SIGNING & PAVEMENT MARKINGS

SHEET NO.
 S-1




MATCH LINE STA 12+00.00

MATCH LINE STA 14+80.00

[Handwritten Signature]
11/12/15

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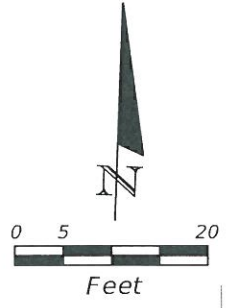
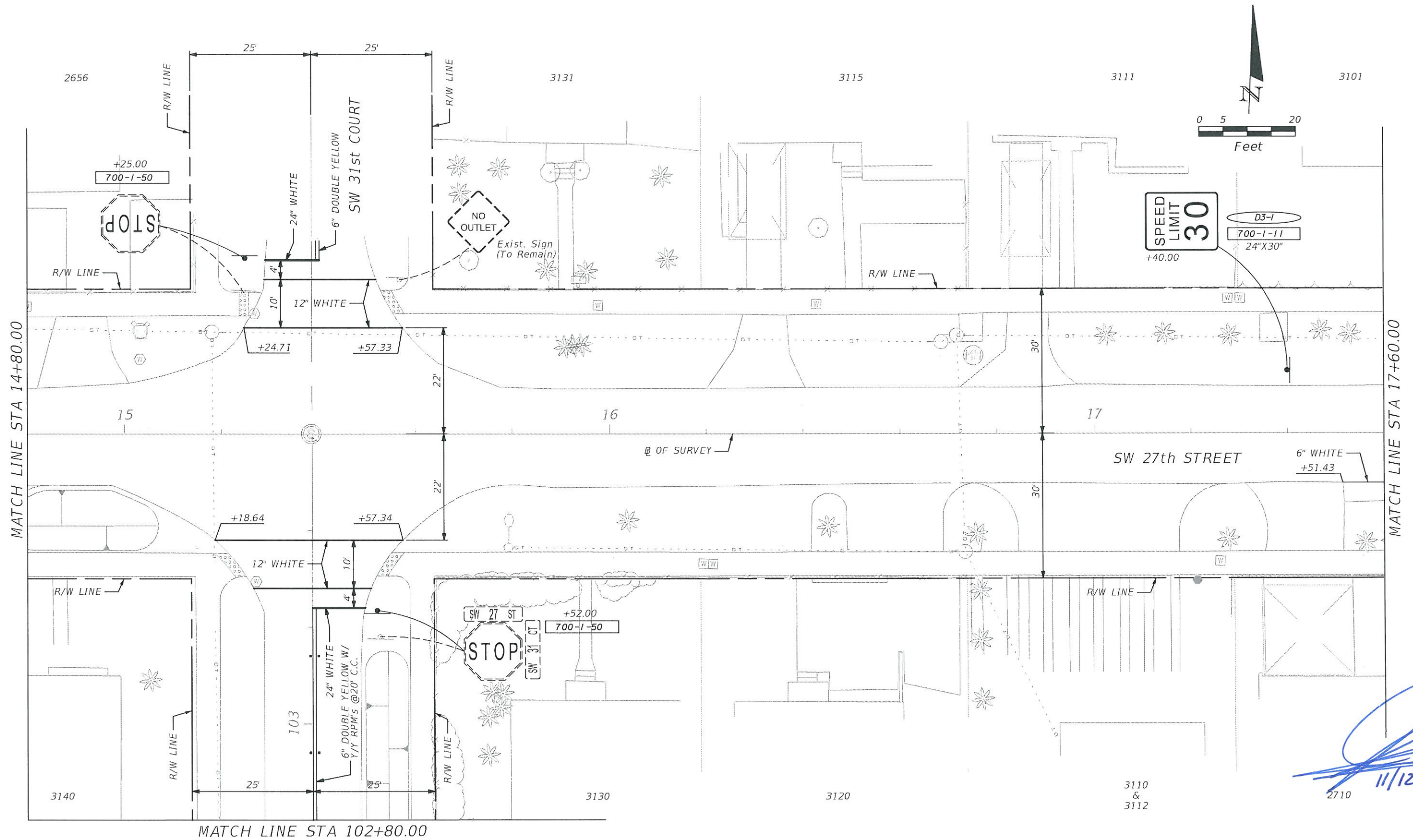


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PROJECT NAME	PROJECT No.
SW 27th St ROADWAY IMPROVEMENT	B-50204

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S-2



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11/12/16

REVISIONS	
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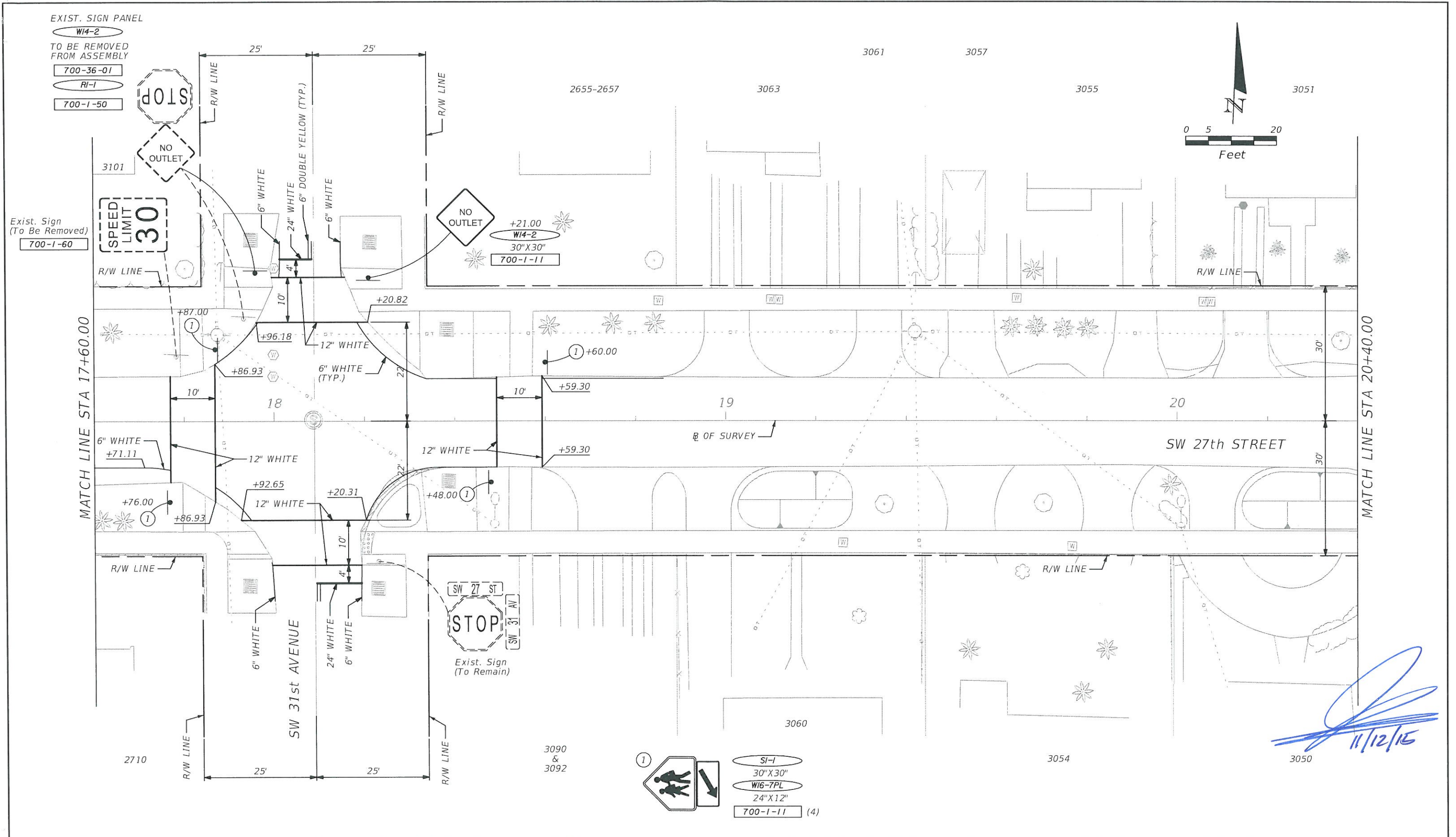


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CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
SW 27th St ROADWAY IMPROVEMENT	B-50204

SIGNING & PAVEMENT MARKINGS

SHEET NO.
S-3



EXIST. SIGN PANEL
 W14-2
 TO BE REMOVED FROM ASSEMBLY
 700-36-01
 R1-1
 700-1-50

Exist. Sign (To Be Removed)
 700-1-60

NO OUTLET
 +21.00
 W14-2
 30" X 30"
 700-1-11


SW 27 ST
 STOP
 SW 31 AV
 Exist. Sign (To Remain)

SI-1
 30" X 30"
 W16-7PL
 24" X 12"
 700-1-11 (4)

[Signature]
 11/12/15

REVISIONS		
DATE	BY	DESCRIPTION

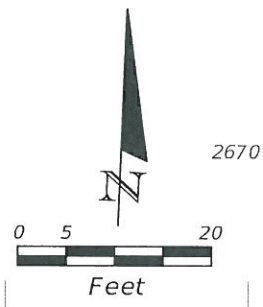
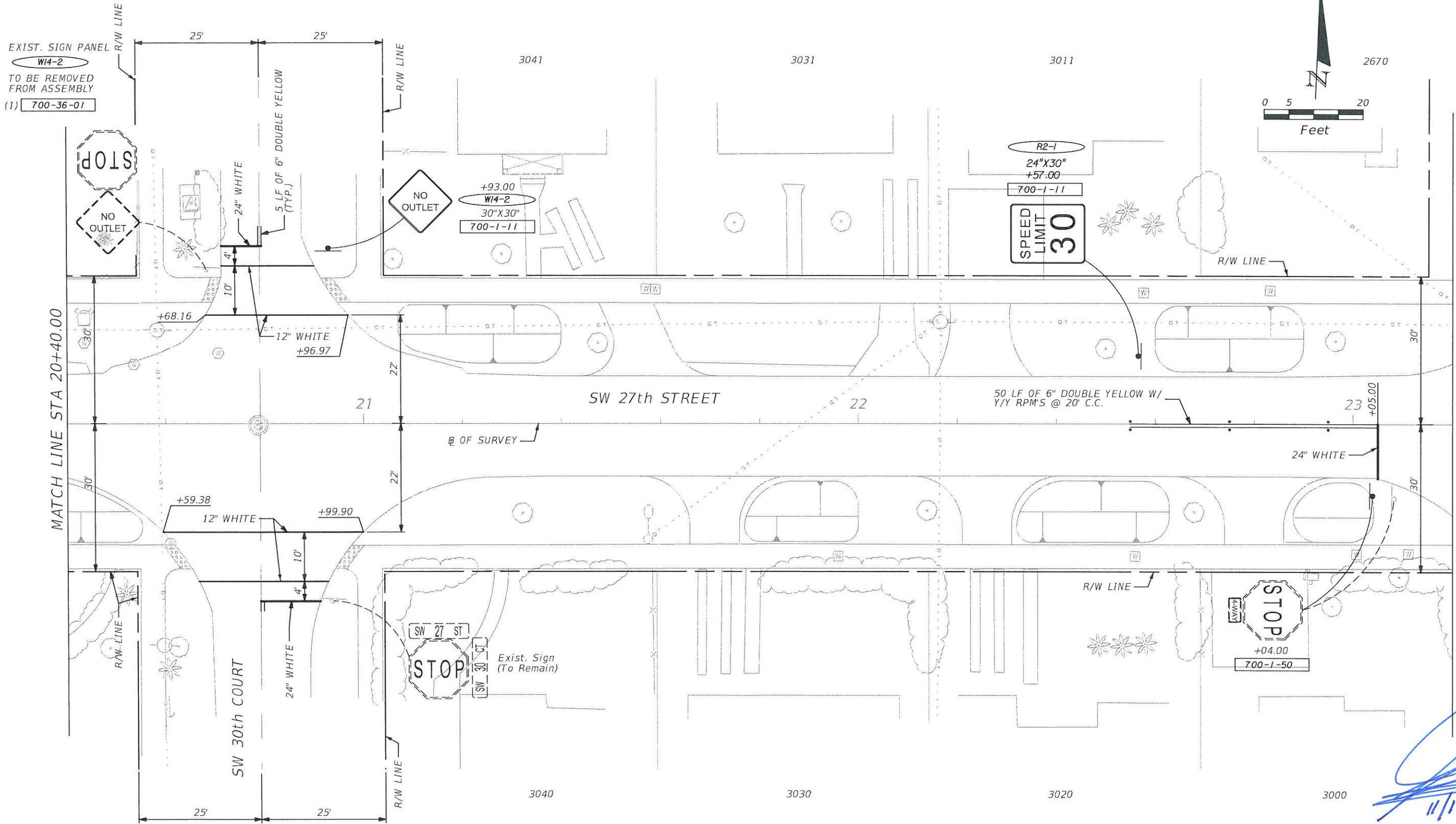
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 PROJECT NAME: SW 27th St ROADWAY IMPROVEMENT
 PROJECT No.: B-50204

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 S-4



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11/12/15

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JAVIER RODRIGUEZ, P.E. LICENSE NO. 48264
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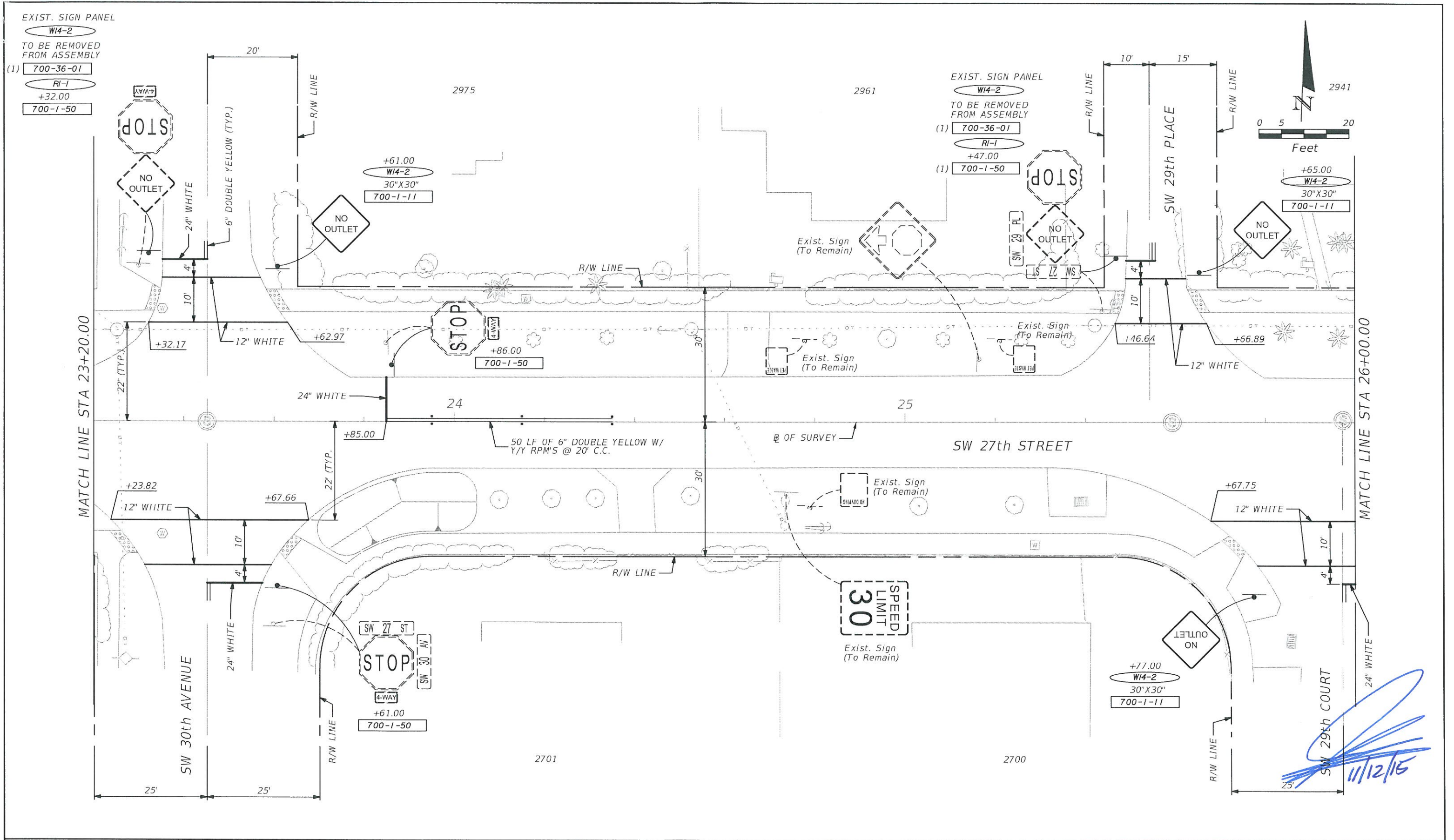


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CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
SW 27th St ROADWAY IMPROVEMENT	B-50204

SIGNING & PAVEMENT MARKINGS

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S-5



REVISIONS	
DATE	DESCRIPTION

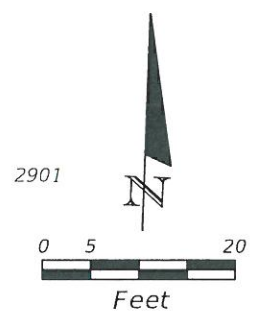
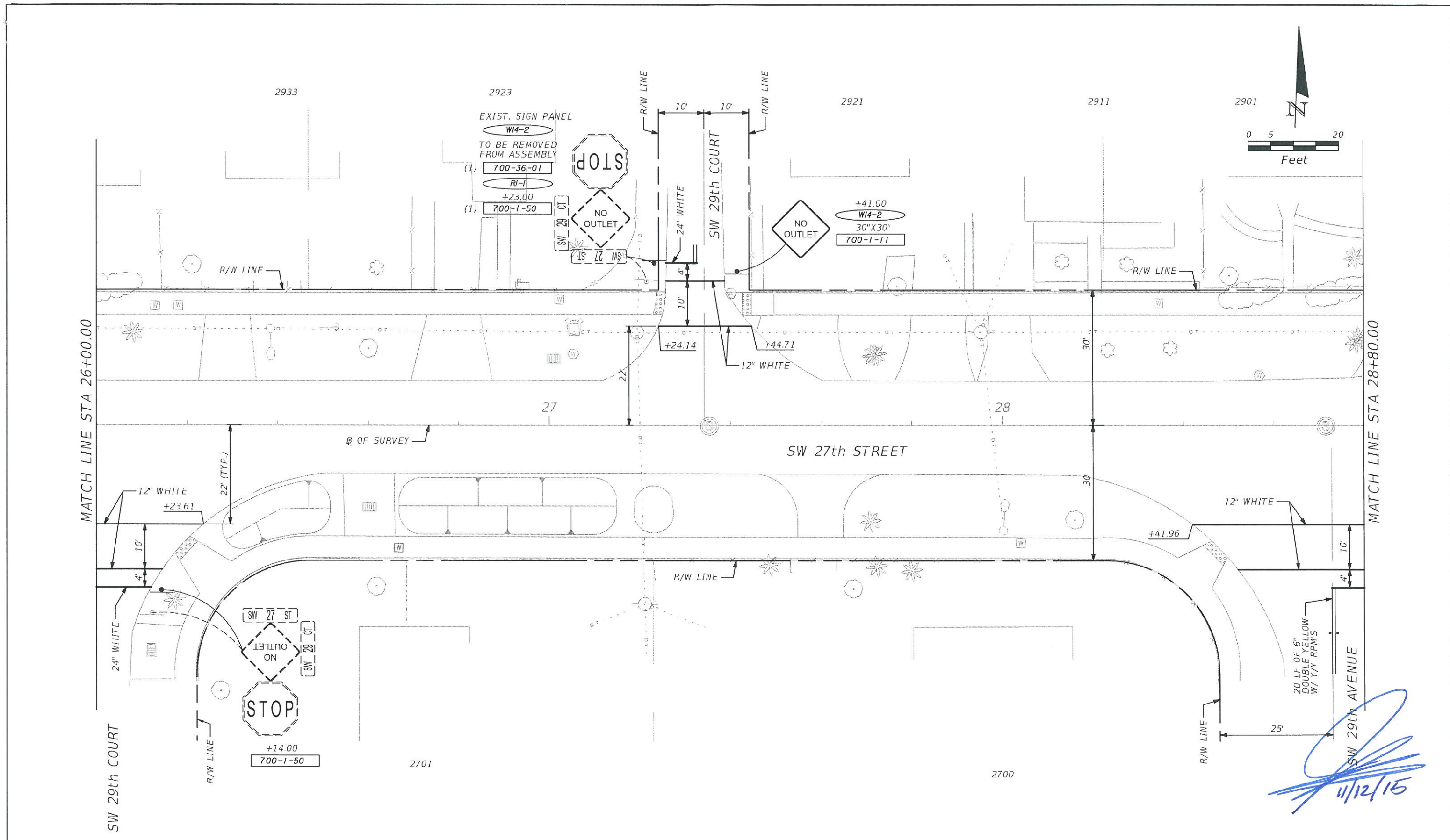
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CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
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SW 27th St ROADWAY IMPROVEMENT	B-50204

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S-6



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REVISIONS	
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CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
PROJECT NAME: SW 27th St ROADWAY IMPROVEMENT
PROJECT No.: B-50204

SIGNING & PAVEMENT MARKINGS

SHEET NO.
S-7

EXIST. SIGN PANEL

W14-2

TO BE REMOVED FROM ASSEMBLY

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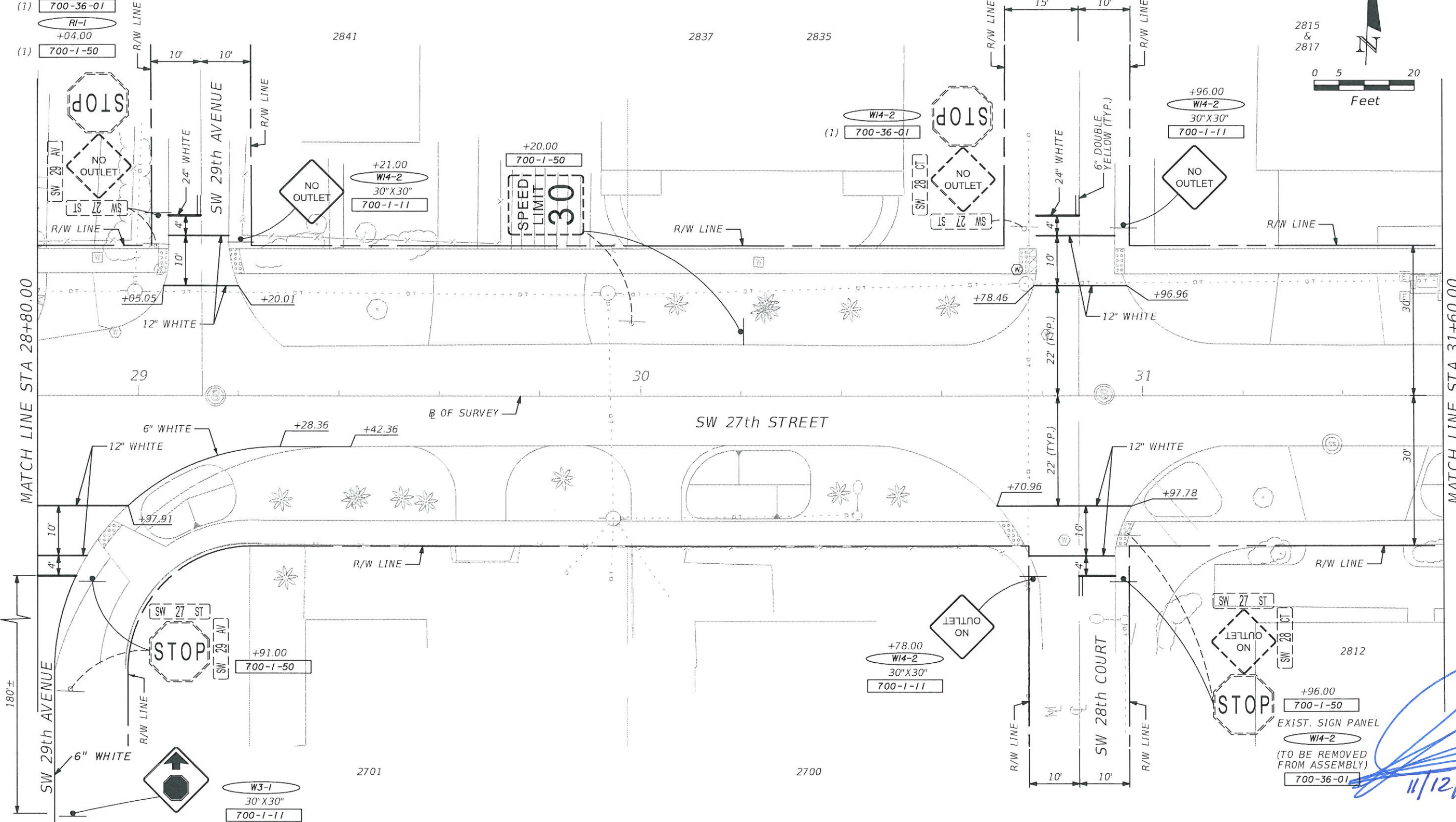
RI-1
+04.00

(1) 700-1-50

2815 & 2817

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Feet



EXIST. SIGN PANEL
W14-2
(TO BE REMOVED FROM ASSEMBLY)
700-36-01

11/12/16

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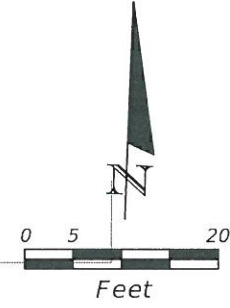
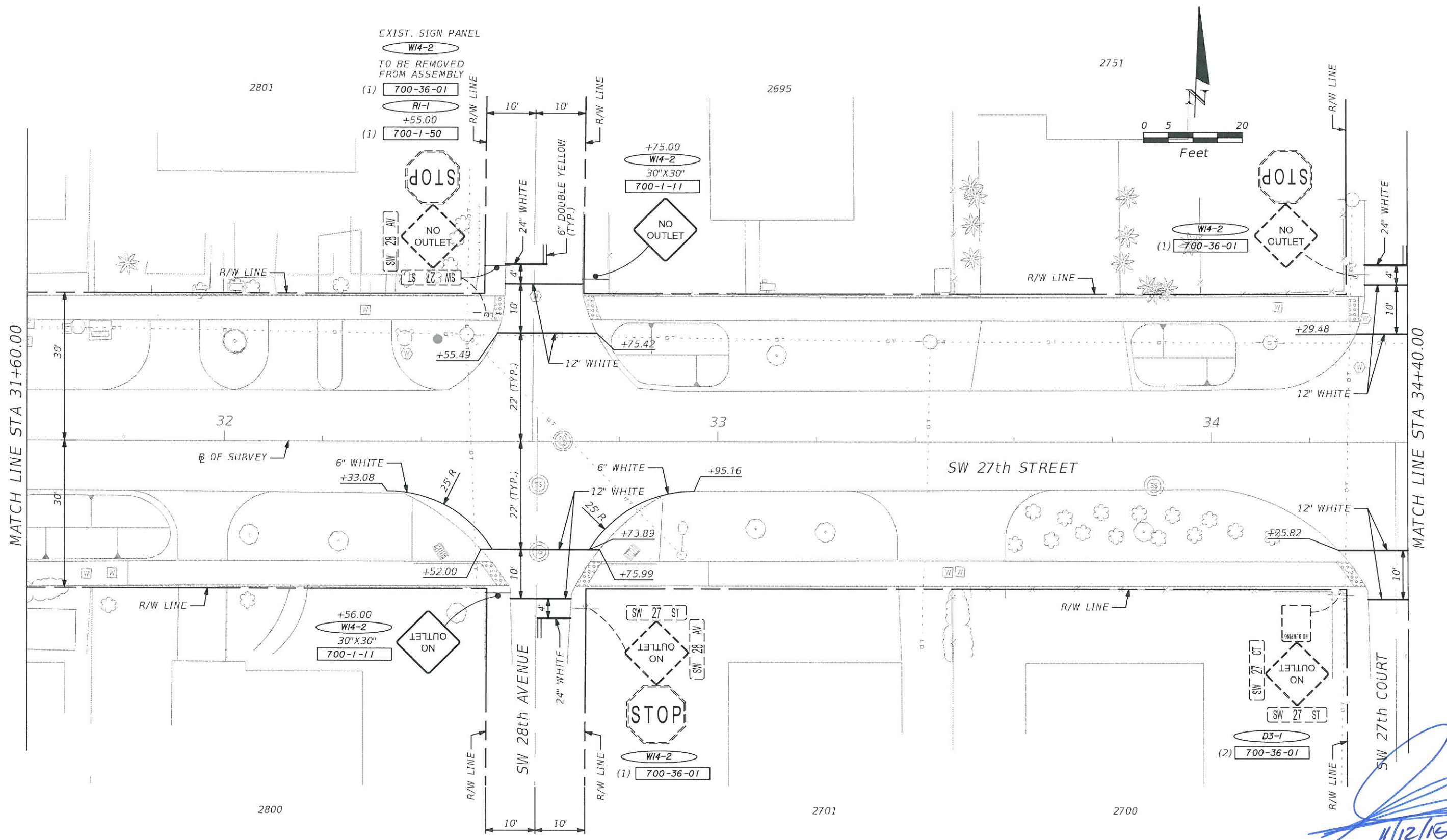


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S-8



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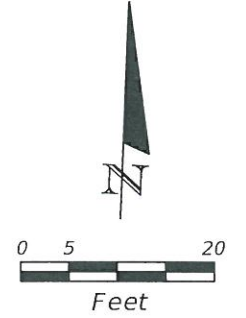
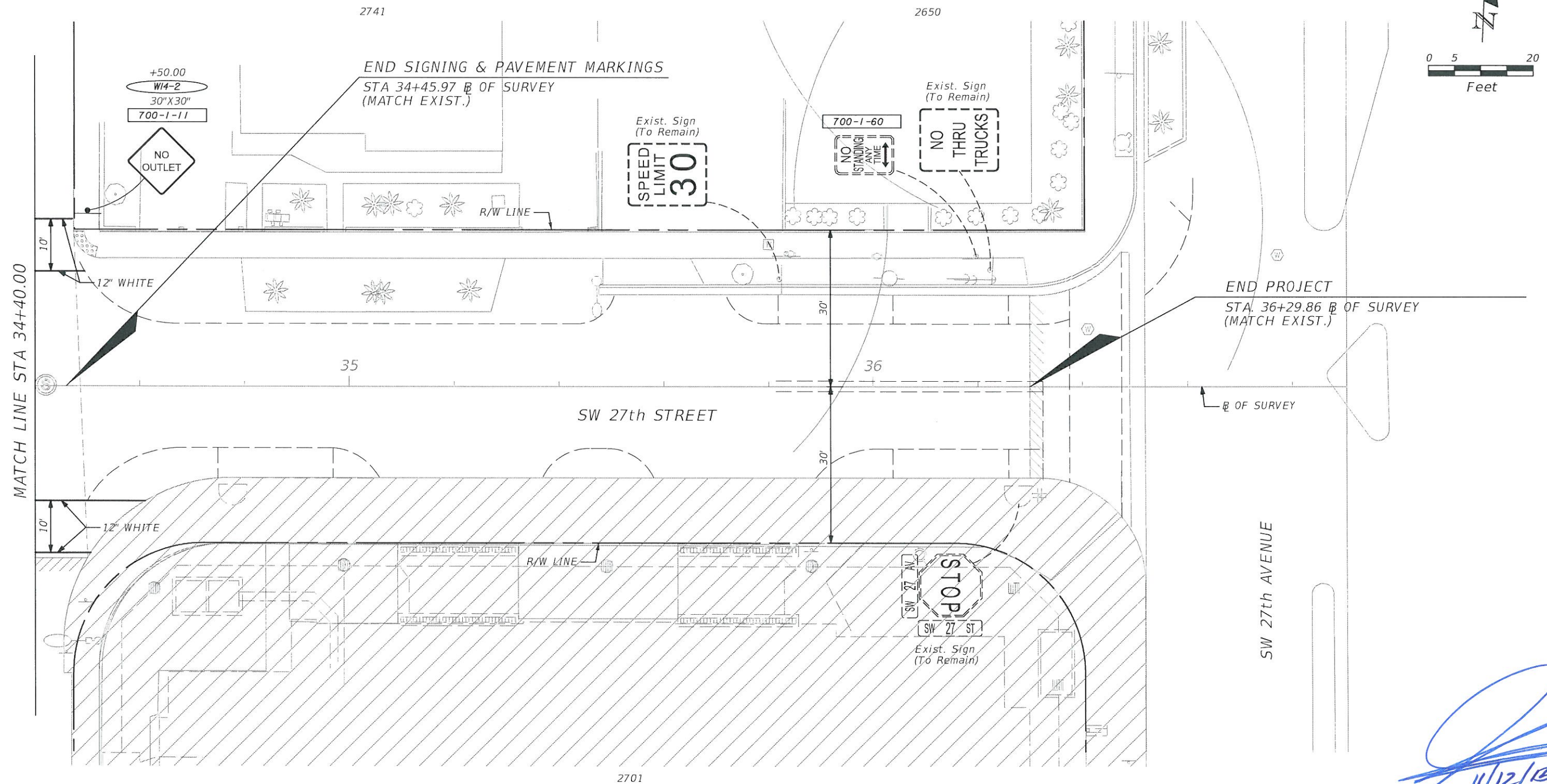


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PROJECT No.: B-50204

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S-9



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DATE	DESCRIPTION

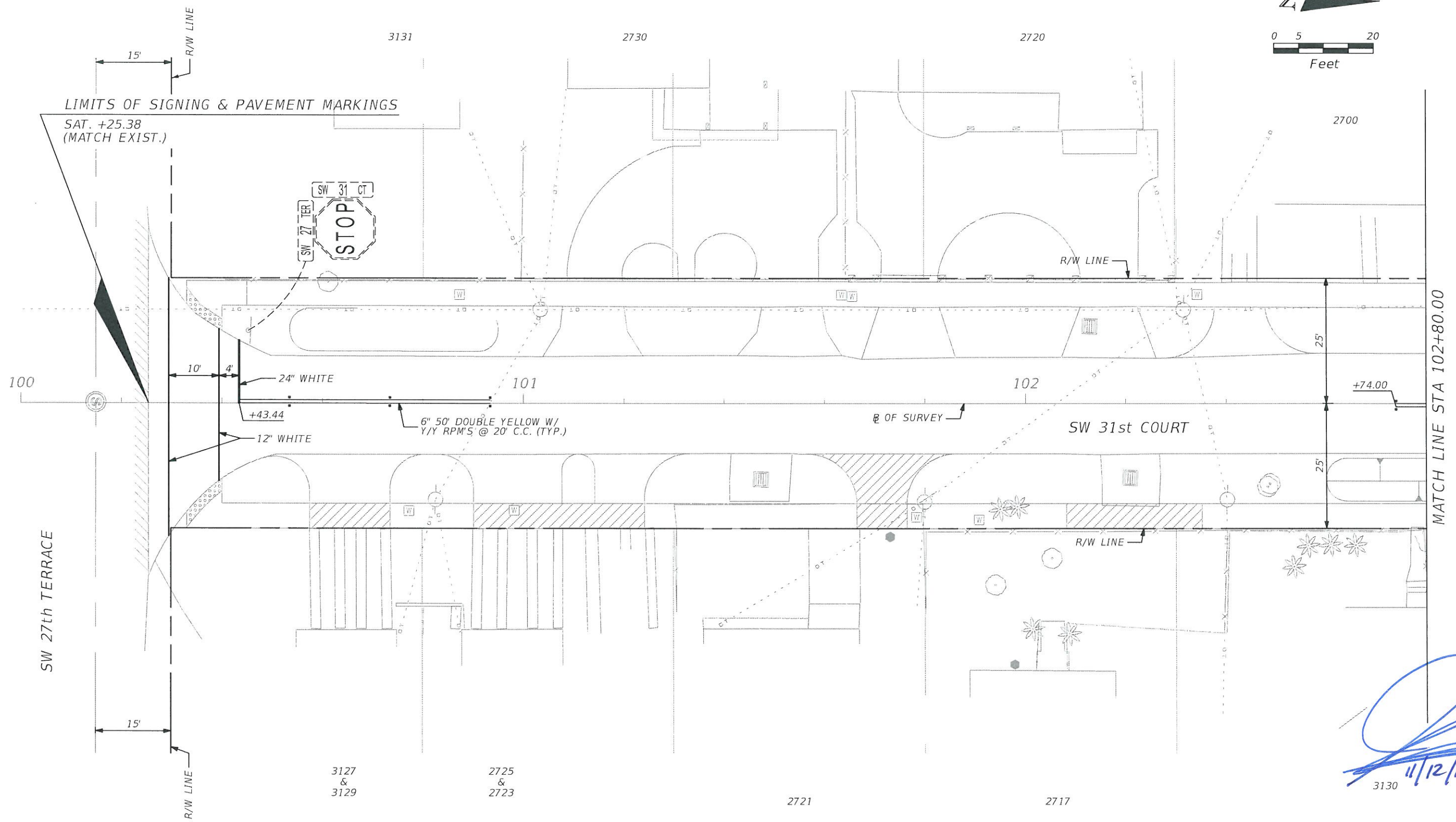
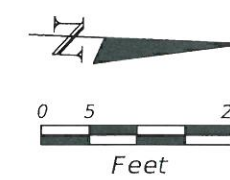
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PROJECT NAME	PROJECT No.
SW 27th St ROADWAY IMPROVEMENT	B-50204

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S-10



[Handwritten Signature]
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3130

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CITY OF MIAMI
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S-11