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Tomas P. Regalado

Chairman / D5 Commissioner

Keon Hardemon

Vice Chairman / D2 Commissioner

Ken Russell

D1 Commissioner

Wifredo (Willy) Gort

D3 Commissioner

Frank Carollo

D4 Commissioner

Francis Suarez

City Manager

Daniel J. Alfonso

CITY OF MIAMI

CAPITAL IMPROVEMENTS PROGRAM

JEOVANNY RODRIGUEZ, P.E., DIRECTOR

PROJECT No. B-30836

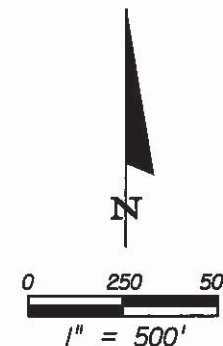
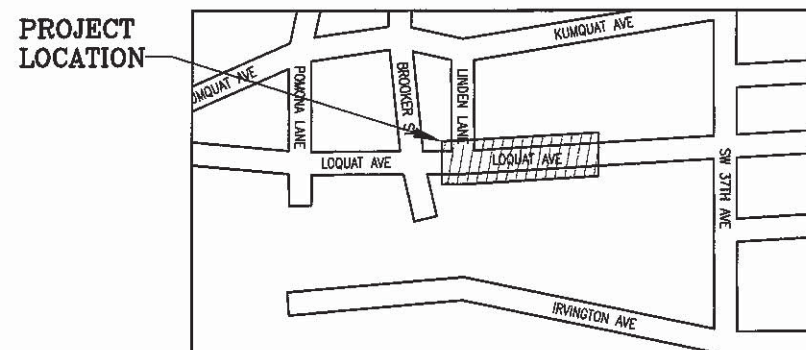
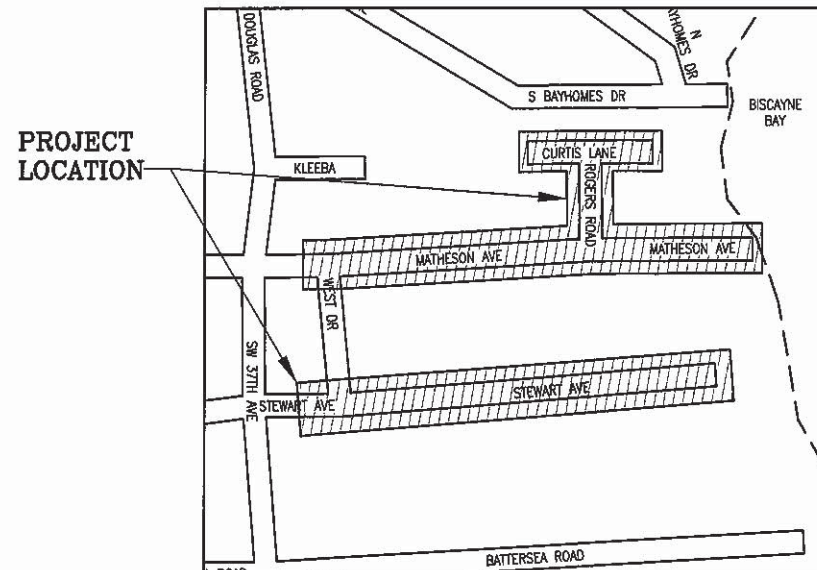
ENTRADA NEIGHBORHOOD

DRAINAGE IMPROVEMENTS



INDEX OF SHEETS

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SURVEY	



SHOP DRAWINGS
TO BE SUBMITTED TO:
WADDIE RUIZ, P.E.
A.D.A. ENGINEERING, INC.
8550 NW 33rd Street, Suite 202
Doral, Florida 33122
(305) 551-4608

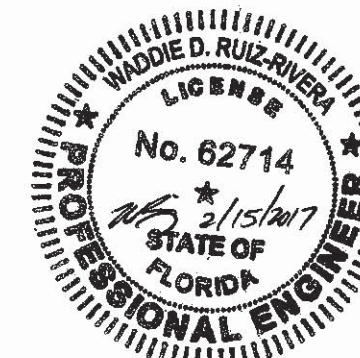
PLANS PREPARED BY:



A.D.A. ENGINEERING, INC.
8550 N.W. 33rd Street • Suite 202
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www.adaeng.net • EB # 00003212
WADDIE RUIZ, P.E.
P.E. License No. 62714

ADA PROJECT NUMBER C036-0813-04

APPROVED
APPROVAL PERTAINS TO GENERAL DESIGN
FEATURES ONLY AND DOES NOT COVER
A COMPLETE CHECK OF DIMENSIONS
OR QUANTITIES
BY: *Waddie Ruiz*
DATE: 3/11/17



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

ROADWAY PLANS
ENGINEER OF RECORD: WADDIE RUIZ, P.E.

P.E. NO.: 62714

CITY OF MIAMI PROJECT MANAGER: JOHN DE PAZOS

CITY OF MIAMI CONSTRUCTION MANAGER: _____



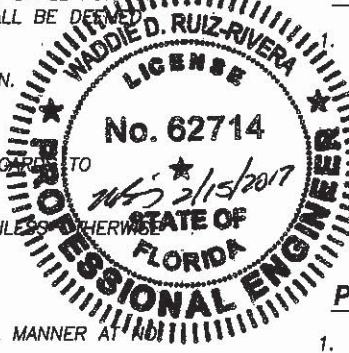
GOVERNING STANDARDS AND SPECIFICATIONS:
- FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2016,
AND STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2015,
AS AMENDED BY CONTRACT DOCUMENTS.
- CITY OF MIAMI ENGINEERING STANDARDS FOR
DESIGN AND CONSTRUCTION DATED DECEMBER 2010.

SHEET
NO.

1

GENERAL NOTES:

- 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.
- 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. CONSTRUCTION DETAILS SHALL BE IN ACCORDANCE WITH STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS DATED 2016, AND THE CITY OF MIAMI ENGINEERING STANDARDS DATED 2010.
- 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.
- CONTRACTOR WILL SECURE WORK SITE TO PROTECT THE PUBLIC HEALTH AND WELFARE.
- 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 AND SHALL SECURE AND PAY FOR ALL PERMITS FOR THE WORK NECESSARY TO COMPLETE THIS PROJECT. COST FOR PERMITS TO BE INCLUDED IN MOBILIZATION PAY ITEM.
- CONTRACTOR TO REPAIR ALL DAMAGES INCURRED AS A RESULT OF CONSTRUCTION ACTIVITIES SUCH AS BUT NOT LIMITED TO SIDEWALK, PAVEMENT, LANDSCAPING, FENCING, IRRIGATION, ETC. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR THIS WORK.
- CONTRACTOR SHALL CONTROL/REMOVE DUST WITH A STREET SWEEPER USING WATER OR OTHER EQUIPMENT CAPABLE OF CONTROLLING DUST.
- ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED BY THE 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 SURVEYORS. PRIOR TO BEGINNING WORK AT THE 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 THE ENGINEER A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING. COST OF THIS WORK SHALL BE DEEMED INCIDENTAL TO THE TOTAL PROJECT COST.
- THE CONTRACTOR SHALL NOTIFY THE CITY IN WRITING AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A PROPER STAGING AND MATERIALS STORAGE AREA.
- 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.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE CITY.
- THE CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR EQUIPMENT.
- THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATED MATERIAL AND DEBRIS TO AN APPROVED SITE IN A LEGAL MANNER AT ADDITIONAL COST TO THE PROJECT.
- STOCKPILING OF MATERIAL IN ROADWAY IS NOT ALLOWED.
- 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 ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY OF ANY CONFLICT ARISING DURING CONSTRUCTION FOR ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.
- ALL CONSTRUCTION LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXISTING MANHOLE TOPS, CATCH BASIN GRATES, VALVE BOX TOPS, AND WATER METER BOXES WITHIN THE PROJECT AREA SHALL BE MODIFIED TO MATCH FINISHED GRADE BY THE CONTRACTOR. PLANS MAY NOT SHOW ALL LOCATIONS NECESSARY FOR ADJUSTMENTS. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL NECESSARY UTILITY TOPS TO BE ADJUSTED.
- CONTRACTOR TO RESTORE ALL SODDED AREAS OF THE PROJECT WHICH ARE DISTURBED DUE TO CONSTRUCTION ACTIVITIES.
- 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.
- 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.
- VERTICAL CONTROL ELEMENT OF SURVEY WAS DERIVED FROM THE CITY OF MIAMI VERTICAL DATUM.



ENVIRONMENTAL NOTES:

- DUE TO THE LIMITED SCOPE OF WORK, NO IMPACTS TO EXISTING HISTORICAL AND CULTURAL RESOURCES ARE EXPECTED AS A RESULT OF THE PROPOSED ACTION.
- ANY MATERIAL TO BE STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES.
- NO STAGING OR OTHER ACTIVITIES FOR THIS PROJECT SHOULD OCCUR WITHIN THE DRIPLINE OF EXISTING TREES.
- PREVENT DAMAGING TREES AND PLANTERS WITHIN OR IMMEDIATELY ADJACENT TO THE PROJECT'S RIGHT-OF-WAY.
- 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.
- TREE PROTECTION SHOULD BE INSTALLED AROUND TREES THAT REMAIN LOCATED ADJACENT TO CONSTRUCTION ACTIVITIES.
- 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 TRIMMING, REMOVAL/RELOCATION.
- THE CONTRACTOR SHALL KEEP NEW AND EXISTING INLETS CLEAN OF CONSTRUCTION MATERIALS AND DEBRIS. INLETS LOCATED NEAR CONSTRUCTION ACTIVITIES SHALL BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES.

APPLICABLE CODES:

- 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.
- 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:

- 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.
- THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL OF FLORIDA, INC. CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. CONTACT 811, WWW.CALLSUNSHINE.COM
- CONTRACTOR SHALL SUBMIT TO THE CITY ENGINEER A STORM WATER POLLUTION PREVENTION PLAN ACCORDING TO THE LATEST 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:

- 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.
- UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER ON 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.
- 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.
- AS-BUILTS SHALL UTILIZE THE CITY OF MIAMI VERTICAL DATUM.

UTILITIES:

- LOCATION AND SIZE OF UTILITIES ARE PROVIDED ON PLANS BASED ON BEST AVAILABLE INFORMATION PROVIDED. VERTICAL DEPTH WAS ASSUMED TO HAVE 3 FEET OF COVER, CONTRACTOR SHOULD FIELD VERIFY WHERE CONFLICTS ARE IDENTIFIED.
- TWO FULL BUSINESS DAYS PRIOR TO DIGGING, THE CONTRACTOR SHALL CALL "SUNSHINE STATE ONE CALL" AT 811 TO REQUEST UTILITY LOCATIONS BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES.
- 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.
- 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.
- 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 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.

REVISIONS

DATE	BY	DESCRIPTION

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 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.
ENTRADA NEIGHBORHOOD DRAINAGE IMPROVEMENTS	B-30836

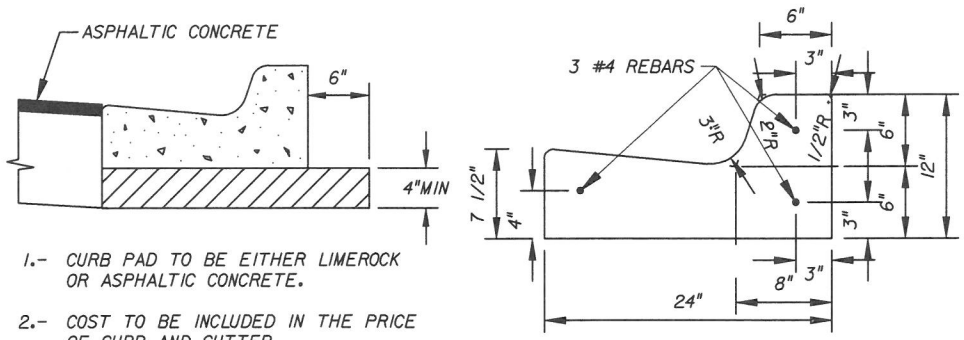
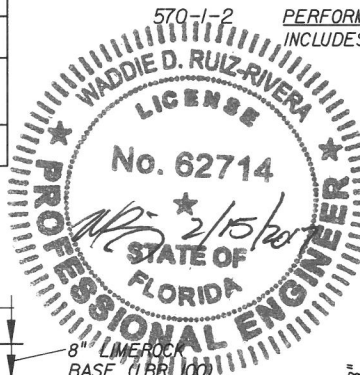
GENERAL NOTES

SHEET NO.
2

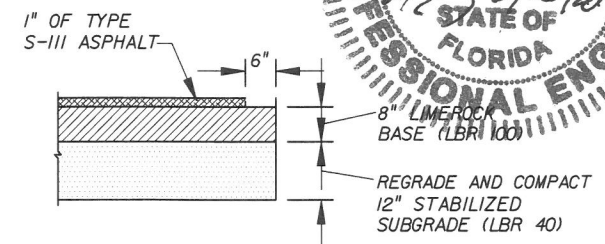
ITEM NO.	DESCRIPTION OF PAY ITEMS	UNITS	GRAND TOTAL
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC (ESTIMATED 120 CONST. DAYS)	LS	1
104-18	INLET PROTECTION SYSTEM	EA	22
110-1-1	CLEARING AND GRUBBING	LS	1
160-4	TYPE B STABILIZATION	SY	340
285-706	OPTIONAL BASE (BASE GROUP 06) (8" LIMEROCK)	SY	340
327-70-1	MILLING EXISTING ASPHALT PAVEMENT, 1" AVG DEPTH	SY	8800
331-2	TYPE S-III ASPHALTIC CONCRETE (AS PER CITY OF MIAMI)	TN	510
425-1-561	INLETS, DITCH BOTTOM, TYPE D-1, $\leq 10'$	EA	1
425-1-561	INLETS, DITCH BOTTOM, TYPE D-3, $\leq 10'$	EA	3
425-1-561	INLETS, DITCH BOTTOM, TYPE D-4, $\leq 10'$	EA	4
425-1-561	INLETS, DITCH BOTTOM, TYPE D-6, $\leq 10'$	EA	1
425-2-101	MANHOLE, CITY OF MIAMI TYPE "A", $\leq 10'$ (35-86-8)	EA	3
425-4	INLET (ADJUST)	EA	6
425-5	MANHOLE (ADJUST)	EA	4
425-6	VALVE BOX (ADJUST)	EA	4
430-94-1	DESILTING PIPE	LF	1520
	DESILTING STRUCTURE	EA	18
430-175-118	18" DIAMETER WATER TIGHT HP PIPE, ANY DEPTH CUT	LF	185
430-200	12" INLINE CHECK VALVE	EA	1
430-200	18" INLINE CHECK VALVE	EA	1
430-200	30" INLINE CHECK VALVE	EA	1
443-70-4	24" FRENCH DRAIN	LF	140
520-1-10	CONCRETE CURB & GUTTER (TYPE F) (35-85-22)	LF	190
520-2-4	CONCRETE CURB TYPE D (35-85-22)	LF	240
520-3	MOUNTABLE CURB & GUTTER (35-85-22) (MATCH EXISTING)	LF	980
570-1-2	PERFORMANCE TURF, SOD	SY	340
660-2-101	LOOP ASSEMBLY	EA	1
ITEM NO.	SIGNING & PAVEMENT MARKING ITEMS	UNITS	GRAND TOTAL
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	22

PAY ITEM NOTES

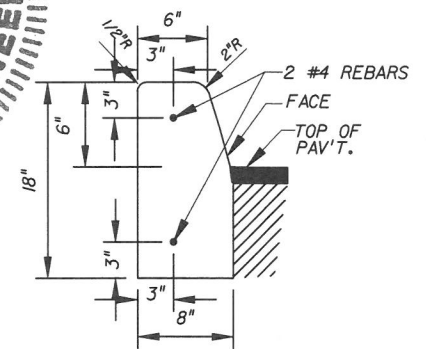
- 101-1 MOBILIZATION:**
UNDER THIS PAY ITEM, THE CONTRACTOR SHALL INCLUDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES; DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN TRACKING OF SEDIMENTS AND GENERATING DUST; WATER TRUCK FOR DUST CONTROL; REMOVING EXCESS DIRT FROM ROADS DAILY; USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS; AND REPLACING EROSION CONTROL ITEMS AS NEEDED OR WHEN DIRECTED BY THE ENGINEER. CONTRACTOR SHALL ALSO ABIDE BY CITY OF MIAMI DEPARTMENT OF PUBLIC WORKS BULLETIN NO. 25 "DISCHARGE OF EXCAVATION WASTE WATER, EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES".
- 102-1 MAINTENANCE OF TRAFFIC:**
THIS ITEM INCLUDES THE COST OF TEMPORARY PAINTED PAVEMENT MARKINGS.
- 110-1-1 CLEARING & GRUBBING:**
INCLUDES REMOVAL AND DISPOSAL OF ALL EXISTING DRAINAGE STRUCTURES AND PIPES AS INDICATED ON PLANS. INCLUDES REMOVAL OF EXISTING PAVEMENT, EXISTING SIDEWALK, AND EXISTING BASE AS INDICATED ON PLANS.
- 331-2 TYPE S ASPHALTIC CONCRETE:**
THIS ITEM INCLUDES THE COST OF SAW CUTTING TO TIE INTO EXISTING PAVEMENT.
- 425-1-* INLETS AND MANHOLES:**
425-2-* INCLUDES THE COST FOR BASE AND STABILIZATION/ FLOWABLE FILL FOR PAVEMENT RESTORATION DUE TO THE PLACEMENT OF PROPOSED DRAINAGE STRUCTURES AND PROPOSED CURB AND/OR GUTTER. INCLUDES THE COST OF CORE AND DRILL IN PLACE EXISTING DRAINAGE STRUCTURE, PAVER DRIVEWAY RESTORATION, AND ALL INCIDENTAL WORK NECESSARY TO CONNECT EXISTING AND PROPOSED DRAINAGE PIPES. CONTRACTOR SHALL VERIFY ALL EXISTING PIPE INVERT ELEVATIONS PRIOR TO THE FABRICATION OF PROPOSED DRAINAGE STRUCTURES. WHERE A BAFFLE OR SKIMMER IS USED IN A CATCH BASIN OR A MANHOLE, THE COST SHALL BE INCLUDED WITH THE RESPECTIVE DRAINAGE STRUCTURE.
- 425-4 ADJUST VALVE BOXES, INLET & UTILITY MANHOLES:**
425-5 QUANTITIES MAY BE INCREASED, DECREASED OR OMITTED AS DIRECTED BY THE ENGINEER. ONLY ONE PAYMENT SHALL BE MADE PER MANHOLE / VALVE BOX / INLET. PRICE AND PAYMENT FOR EACH UNIT INCLUDES COST OF ALL ADJUSTMENTS REGARDLESS TO THE NUMBER OF ADJUSTMENTS REQUIRED FOR THE PROPER CONSTRUCTION OF THE PROJECT.
425-6
- 430-175-118 WATER TIGHT HP PIPE CULVERT:**
THE UNIT PRICE SHALL INCLUDE THE COST OF PIPE, FITTINGS, BEDDING, WATER TIGHT JOINT SEALANT AND/OR OTHER APPLICABLE MATERIAL PER STANDARD DETAIL 35-88-7, AND THE COST FOR TRENCH EXCAVATION, BACKFILL, COMPACTION AND TEMPORARY ASPHALT. THE UNIT PRICE SHALL ALSO INCLUDE THE COST FOR DISPOSAL OF SURPLUS EXCAVATED MATERIALS.
- 443-70-4 FRENCH DRAIN:**
THE UNIT PRICE SHALL INCLUDE THE COST OF PIPE, FITTINGS, COARSE AGGREGATE AND FILTER FABRIC IN PLACE, AND THE COST FOR TRENCH EXCAVATION, STABILIZED SUBGRADE, BACKFILL AND COMPACTION. THE UNIT PRICE SHALL ALSO INCLUDE THE COST FOR DISPOSAL OF SURPLUS EXCAVATED MATERIALS. WHEN THE PIPE IS LOCATED WITHIN THE PAVEMENT AREA THE UNIT PRICE INCLUDES THE TEMPORARY ASPHALT FOR THE TRENCH BACKFILL. INCLUDES BACKFILL AND FULL PAVEMENT RESTORATION.
- 520-1-10 CONCRETE CURB & GUTTER:**
INCLUDES THE COST OF ALL ASSOCIATED CLEARING AND GRUBBING, SAW CUTTING, REMOVAL OF EXISTING CURB AND GUTTER, EXCAVATION AND EMBANKMENT. ALSO INCLUDES ALL COST ASSOCIATED WITH THE CONSTRUCTION OF CURB PAD. INCLUDES 100 LF CONTINGENCY FOR TYPE 'F' CURB AND GUTTER FOR THE EXTENSION TO THE NEAREST JOINT (NO REMAINING SECTION OF CURB AND GUTTER TO BE LESS THAN 5' IN LENGTH). QUANTITIES ARE NOT PLAN QUANTITY AND MAY BE INCREASED, DECREASED OR OMITTED AS DIRECTED BY THE ENGINEER.
- 570-1-2 PERFORMANCE TURF, SOD:**
INCLUDES WATERING AND MAINTENANCE, INCLUDING MOWING, THROUGH FINAL COMPLETION AND ACCEPTANCE. SODDING SHALL MATCH EXISTING TURF.



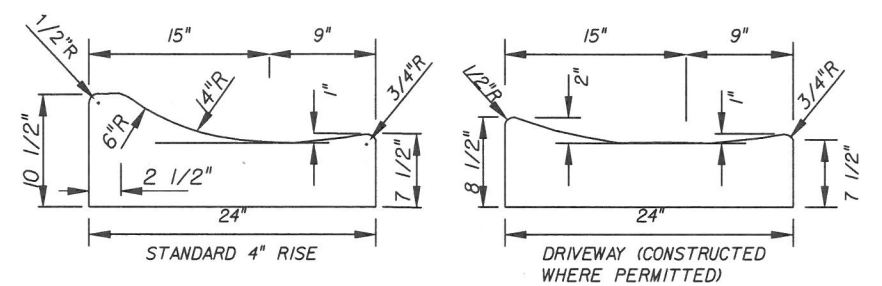
TYPE "F" CURB PAD DETAIL
N.T.S.



RECONSTRUCTION DETAIL
N.T.S.



TYPE "D" CURB DETAIL
N.T.S.



MOUNTABLE CURB & GUTTER DETAIL
N.T.S.

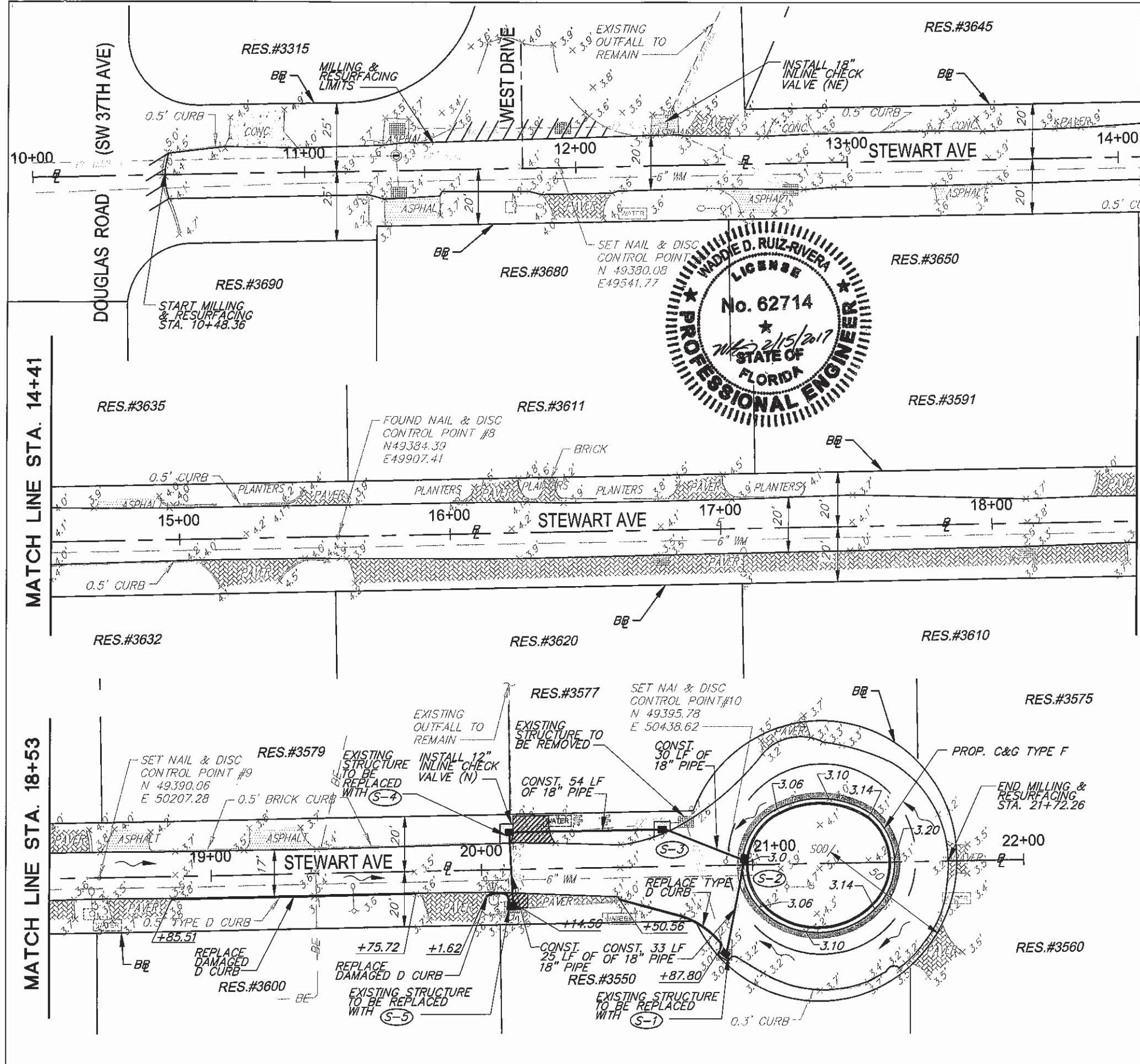
REVISIONS		
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CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
ENTRADA NEIGHBORHOOD DRAINAGE IMPROVEMENTS	B-30836

SUMMARY OF PAY ITEMS & PAY ITEM NOTES	
SHEET NO.	3



(S-1)
TYPE D-4 INLET
EOP. EL. 2.53'
INV. EL. -3.8' (NE)
B.O.S. EL. -5.8'
STA. 20+90.73,
30.98' RT

(S-3)
TYPE D-4 INLET
EOP. EL. 2.71'
INV. EL. -4.0' (SE)
INV. EL. -4.0' (W)
B.O.S. EL. -6.0'
STA. 20+66.67,
12.37' LT

(S-2)
TYPE D-4 INLET
EOP. EL. 3.0'
INV. EL. -3.8' (SW)
INV. EL. -3.9' (NW)
B.O.S. EL. -5.9'
STA. 20+95.74,
0.77' RT

(S-4)
TYPE D-4 INLET
EOP. EL. 2.77'
INV. EL. -4.10' (S)
INV. EL. -4.10' (E)
B.O.S. EL. -6.10'
STA. 20+10.20,
12.39' LT
UTILIZE USF 6646 H

(S-5)
TYPE D-3 INLET
EOP. EL. 2.78'
INV. EL. -3.8' (N)
B.O.S. EL. -5.8'
STA. 20+11.43,
12.23' RT

LEGEND

	PROPOSED CURB & GUTTER STATIONS		EXISTING CONCRETE DRIVEWAY
	PROPOSED ELEVATION (EOP)		MILLING AND RESURFACING LIMITS
	FLOW ARROW		PROPOSED ASPHALT APRON
	EXISTING ELEVATION		RECONSTRUCTION AREA
	MILLING AND RESURFACING 1"		PAVER DRIVEWAY RESTORATION
	EXISTING GRAVEL DRIVEWAY		PROPOSED ASPHALT DRIVEWAY
	EXISTING PAVER DRIVEWAY		REPLACE MOUNTABLE CURB & GUTTER MISC 35-85-22 (MATCH EXISTING)
			PROPOSED TYPE F CURB & GUTTER
			REPLACE TYPE D CURB

- NOTES:**
- ALL VALVES AND MANHOLES TO BE FLUSH WITH NEW PAVEMENT. CONTRACTOR TO ADJUST ACCORDINGLY.
 - DAMAGED AREAS TO BE RESTORED TO EXISTING CONDITION.
 - UTILITY INFORMATION SHOWN IS BASED ON BEST AVAILABLE INFORMATION.
 - ALL DRAINAGE SYSTEMS (NEW AND EXIST.) MUST BE CLEANED/DILTED PRIOR TO FINAL PW ACCEPTANCE. EXISTING INLETS AND PIPES ARE TO BE DESILTED/JETTED.
 - TRENCH RESTORATION AS PER CITY OF MIAMI DETAIL 35-88-7.
 - EXISTING PAVEMENT MARKINGS AFFECTED BY ROADWAY IMPROVEMENTS SHALL BE REPLACED.
- WATERTIGHT DRAINAGE SYSTEMS SHALL BE TESTED AS FOLLOWS:**
- PRIOR TO TESTING FOR LEAKAGE, THE TRENCH SHALL BE COMPLETELY BACKFILLED AND COMPACTED PROPERLY. TEST SHALL BE PERFORMED JUST PRIOR TO FINAL PAVING OVER TRENCH.
 - A LAMPING TEST SHALL BE PERFORMED TO ASSURE THAT THERE IS NO INFILTRATION INTO DRAINAGE SYSTEM. VISIBLE LEAKS INTO THE SYSTEM SHALL BE CORRECTED REGARDLESS OF THE AMOUNT OF LEAKAGE.
 - LAMPING TEST SHALL BE PERFORMED DURING HIGH TIDE, OR WHEN THE WATER TABLE IS 2 FEET OR MORE ABOVE THE TOP OF THE PIPE AT THE UPPER END OF THE PIPE LINE SECTION TO BE TESTED.
 - AN EXFILTRATION TEST SHALL BE PERFORMED DURING LOW TIDE BY FILLING THE MANHOLE AND LINE WITH CLEAN WATER. THE FILLED LINES SHALL BE ALLOWED TO STAND UNTIL THE SYSTEM HAS REACHED ITS MAXIMUM ABSORPTION, BUT NOT LESS THAN 4 HOURS. AFTER ABSORPTION, THE HEAD SHALL BE RE-ESTABLISHED. THE ALLOWABLE LIMITS OF EXFILTRATION FOR THE ENTIRE SYSTEM, OR ANY PORTION THEREOF, SHALL NOT EXCEED A RATE OF 500 GALLONS PER INCH OF INSIDE PIPE DIAMETER PER MILE OF PIPE PER 24 HOURS. WHEN LEAKAGE EXCEEDS THE MAXIMUM AMOUNT SPECIFIED, SATISFACTORY CORRECTION SHALL BE MADE AND SYSTEM RETESTED. CORRECTION AND RETESTING SHALL BE MADE AT CONTRACTOR'S EXPENSE.
 - MANHOLE EXFILTRATION LEAKAGE SHALL NOT EXCEED 4 GALLONS PER DAY PER MANHOLE TESTED.
 - THE COST OF ALL MATERIAL AND LABOR REQUIRED FOR TESTING SHALL BE BORNE BY THE CONTRACTOR.
 - THE ENGINEER OF RECORD OR HIS DESIGNEE SHALL BE PRESENT DURING TESTING.
 - TEST RESULTS SHALL BE CERTIFIED AS ACCURATE BY THE ENGINEER OF RECORD PRIOR TO FINAL ACCEPTANCE.
 - THE CONTRACTOR OR ENGINEER OF RECORD SHALL NOTIFY THE CITY OF MIAMI PUBLIC WORKS RIGHT-OF-WAY CONSTRUCTION SECTION OF THE TESTING TIME AND DATE AT LEAST THREE (3) BUSINESS DAYS IN ADVANCE.
- * DRAINAGE STRUCTURES AND PIPE MATERIALS SHALL BE WATERTIGHT. PROVIDE RAMNEK WATERTIGHT JOINT SEALANT OR AN APPROVED EQUAL FOR ALL STRUCTURES. PIPE MATERIAL SHALL BE HP PIPE BY ADS OR AN APPROVED EQUAL.

REVISIONS		
DATE	BY	DESCRIPTION

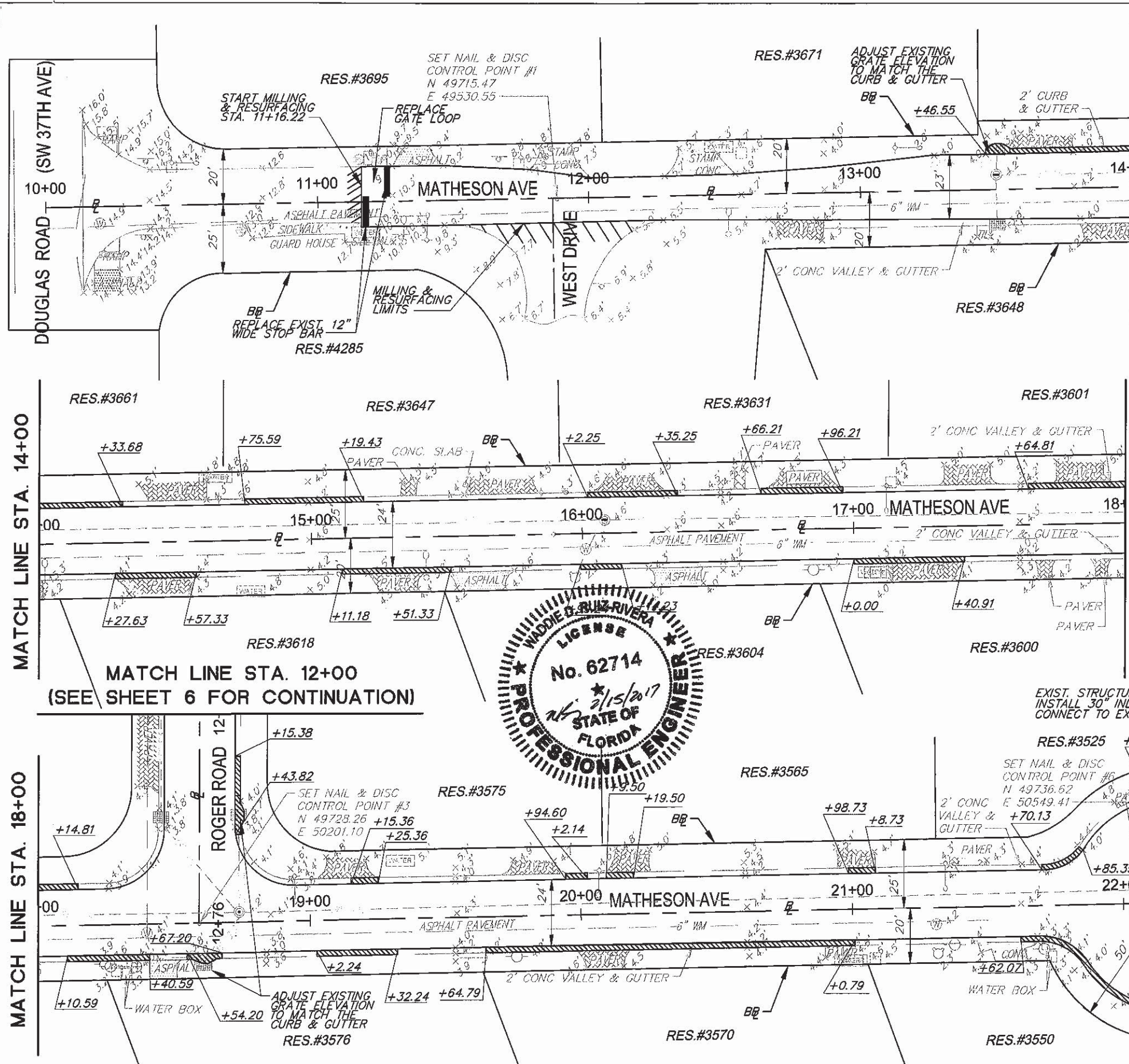
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CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
PROJECT NAME: ENTRADA NEIGHBORHOOD DRAINAGE IMPROVEMENTS
PROJECT No.: B-30836

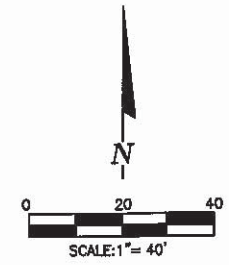
DRAINAGE PLAN

SHEET NO. 4



LEGEND

- PROPOSED CURB & GUTTER STATIONS
- PROPOSED ELEVATION (EOP)
- FLOW ARROW
- EXISTING ELEVATION
- PROPOSED ASPHALT APRON
- MILLING AND RESURFACING 1"
- EXISTING GRAVEL DRIVEWAY
- EXISTING PAVER DRIVEWAY
- EXISTING CONCRETE DRIVEWAY
- MILLING AND RESURFACING LIMITS
- PROPOSED ASPHALT DRIVEWAY
- REPLACE MOUNTABLE CURB & GUTTER MISC 35-85-22 (MATCH EXISTING)
- PROPOSED TYPE F CURB & GUTTER
- REPLACE TYPE D CURB



NOTES:

1. ALL VALVES AND MANHOLES TO BE FLUSH WITH NEW PAVEMENT. CONTRACTOR TO ADJUST ACCORDINGLY.
2. DAMAGED AREAS TO BE RESTORED TO EXISTING CONDITION.
3. UTILITY INFORMATION SHOWN IS BASED ON BEST AVAILABLE INFORMATION.
4. ALL DRAINAGE SYSTEMS (NEW AND EXIST.) MUST BE CLEANED/DISILTED PRIOR TO FINAL PW ACCEPTANCE. EXISTING INLETS AND PIPES ARE TO BE DESILTED/JETTED.
5. TRENCH RESTORATION AS PER CITY OF MIAMI DETAIL 35-88-7.
6. EXISTING PAVEMENT MARKINGS AFFECTED BY ROADWAY IMPROVEMENTS SHALL BE REPLACED.

WATERTIGHT DRAINAGE SYSTEMS SHALL BE TESTED AS FOLLOWS:

1. PRIOR TO TESTING FOR LEAKAGE, THE TRENCH SHALL BE COMPLETELY BACKFILLED AND COMPACTED PROPERLY. TEST SHALL BE PERFORMED JUST PRIOR TO FINAL PAVING OVER TRENCH.
2. A LAMPING TEST SHALL BE PERFORMED TO ASSURE THAT THERE IS NO INFILTRATION INTO DRAINAGE SYSTEM. VISIBLE LEAKS INTO THE SYSTEM SHALL BE CORRECTED REGARDLESS OF THE AMOUNT OF LEAKAGE.
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5. MANHOLE EXFILTRATION LEAKAGE SHALL NOT EXCEED 4 GALLONS PER DAY PER MANHOLE TESTED.
6. THE COST OF ALL MATERIAL AND LABOR REQUIRED FOR TESTING SHALL BE BORNE BY THE CONTRACTOR.
7. THE ENGINEER OF RECORD OR HIS DESIGNEE SHALL BE PRESENT DURING TESTING.
8. TEST RESULTS SHALL BE CERTIFIED AS ACCURATE BY THE ENGINEER OF RECORD PRIOR TO FINAL ACCEPTANCE.
9. THE CONTRACTOR OR ENGINEER OF RECORD SHALL NOTIFY THE CITY OF MIAMI PUBLIC WORKS RIGHT-OF-WAY CONSTRUCTION SECTION OF THE TESTING TIME AND DATE AT LEAST THREE (3) BUSINESS DAYS IN ADVANCE.

* DRAINAGE STRUCTURES AND PIPE MATERIALS SHALL BE WATERTIGHT. PROVIDE RAMNEK WATERTIGHT JOINT SEALANT OR AN APPROVED EQUAL FOR ALL STRUCTURES. PIPE MATERIAL SHALL BE HP PIPE BY ADS OR AN APPROVED EQUAL.

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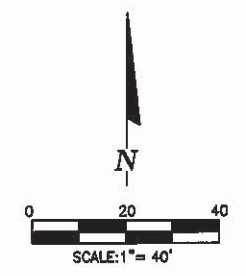
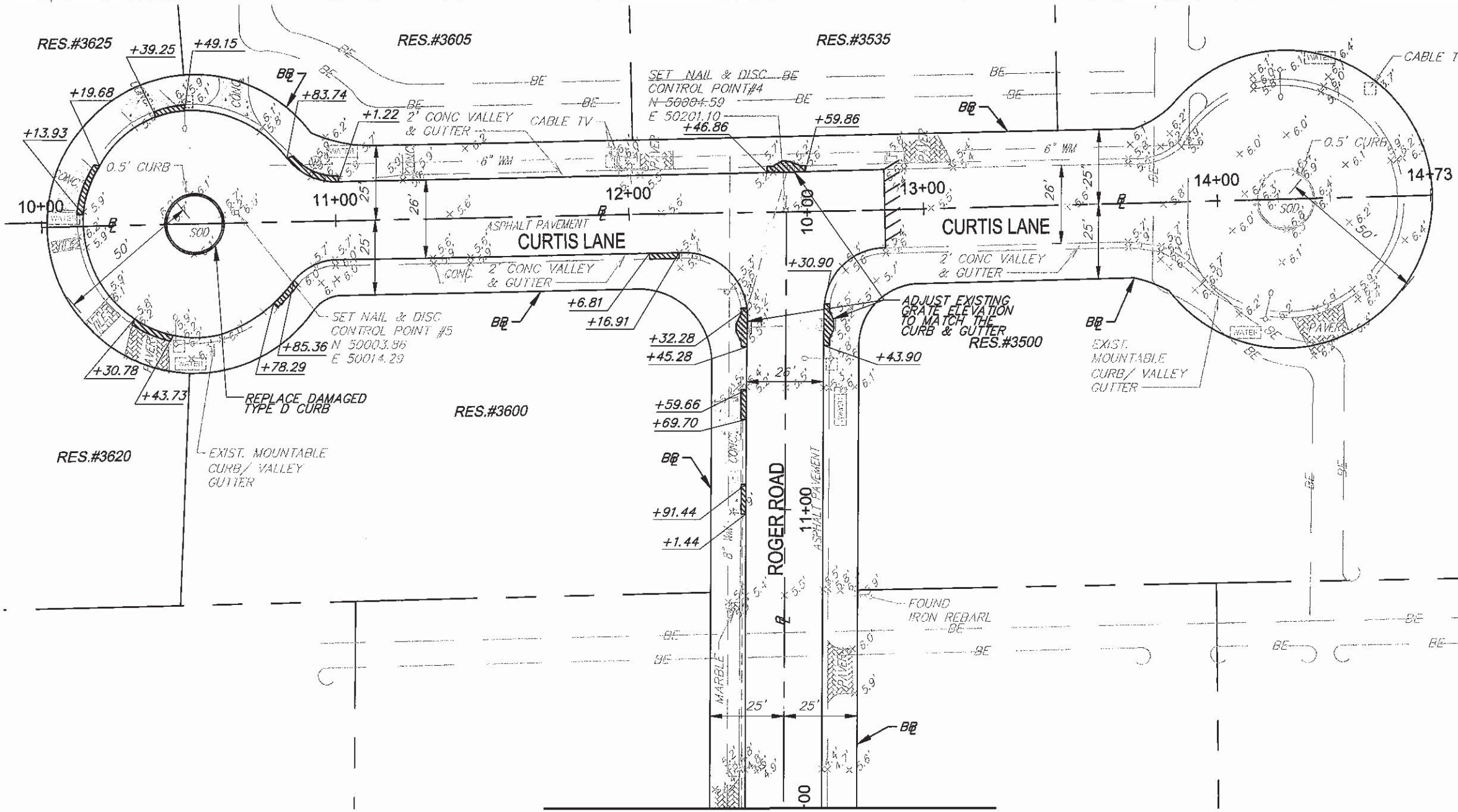
CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME: ENTRADA NEIGHBORHOOD DRAINAGE IMPROVEMENTS

PROJECT No.: B-30836

DRAINAGE PLAN

SHEET NO. 5



- NOTES:**
1. ALL VALVES AND MANHOLES TO BE FLUSH WITH NEW PAVEMENT. CONTRACTOR TO ADJUST ACCORDINGLY.
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MATCH LINE STA. 12+00
(SEE SHEET 5 FOR CONTINUATION)

LEGEND

- +55.39
PROPOSED CURB & GUTTER STATIONS
- X.XX'
PROPOSED ELEVATION (EOP)
- FLOW ARROW
- EXISTING ELEVATION
- MILLING AND RESURFACING 1"
- EXISTING GRAVEL DRIVEWAY
- EXISTING PAVER DRIVEWAY
- EXISTING CONCRETE DRIVEWAY

- MILLING AND RESURFACING LIMITS
- PROPOSED ASPHALT APRON
- RECONSTRUCTION AREA
- PAVER DRIVEWAY RESTORATION
- PROPOSED ASPHALT DRIVEWAY
- REPLACE MOUNTABLE CURB & GUTTER MISC 35-85-22 (MATCH EXISTING)
- PROPOSED TYPE F CURB & GUTTER
- REPLACE TYPE D CURB



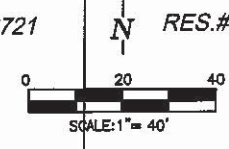
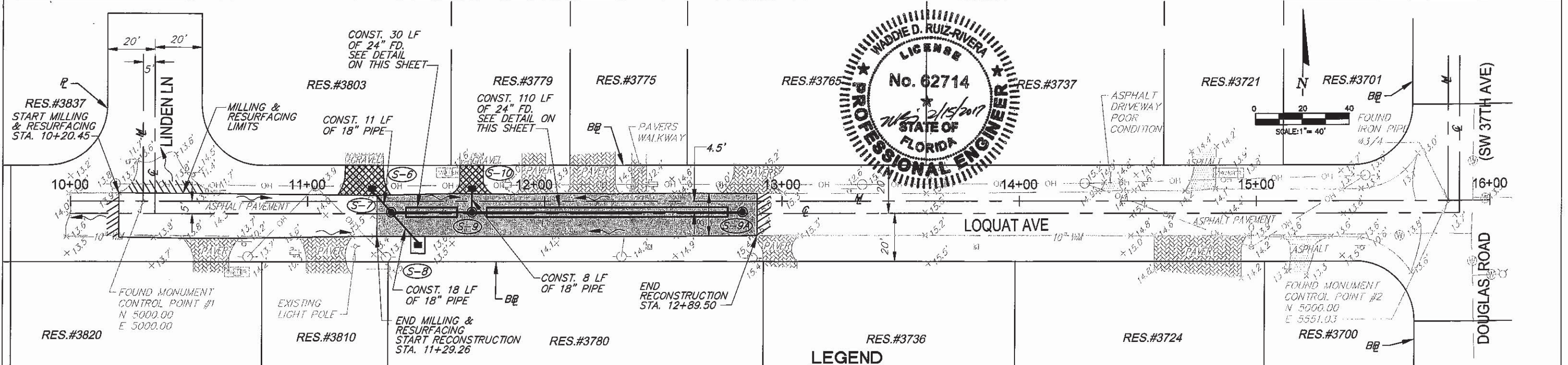
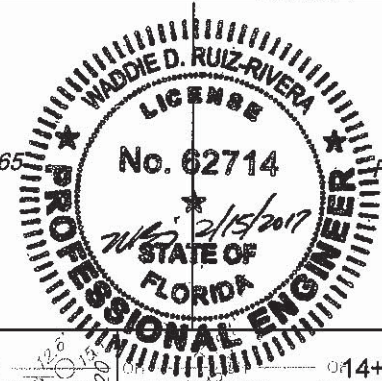
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CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
PROJECT NAME: ENTRADA NEIGHBORHOOD DRAINAGE IMPROVEMENTS
PROJECT No.: B-30836

DRAINAGE PLAN
SHEET NO. 6



- S-6**
TYPE D-3 INLET
GRATE EL. 13.55
INV. EL. 7.47 (S)
B.O.S. EL. 5.47
STA 11+27.30, 5.4' LT
- S-7**
TYPE A MANHOLE
WITH TYPE II BAFFLE (W)
RIM EL. 13.72
INV. EL. 7.37 (N)
INV. EL. 6.42 (S)
INV. EL. 8.47 (W)
B.O.S. EL. 4.42
STA 11+34.50, 4.5' RT
- S-8**
TYPE D-3 INLET
GRATE EL. 13.17
INV. EL. 6.52 (N)
B.O.S. EL. 4.52
STA 11+46.75, 20' RT
- S-9**
TYPE A MANHOLE
WITH TYPE II
BAFFLE (E & W)
RIM EL. 14.14
INV. EL. 7.34 (N)
INV. EL. 8.47 (E)
INV. EL. 8.47 (W)
B.O.S. EL. 4.47
STA 11+69.40, 4.5' RT
- S-10**
TYPE D-1 INLET
GRATE EL. 12.00
INV. EL. 7.44 (S)
B.O.S. EL. 5.44
STA 11+69.40, 5.4' LT
- S-9A**
TYPE A MANHOLE
RIM EL. 15.07
INV. EL. 8.47 (W)
B.O.S. EL. 6.47
STA 12+82.50, 4.5' RT

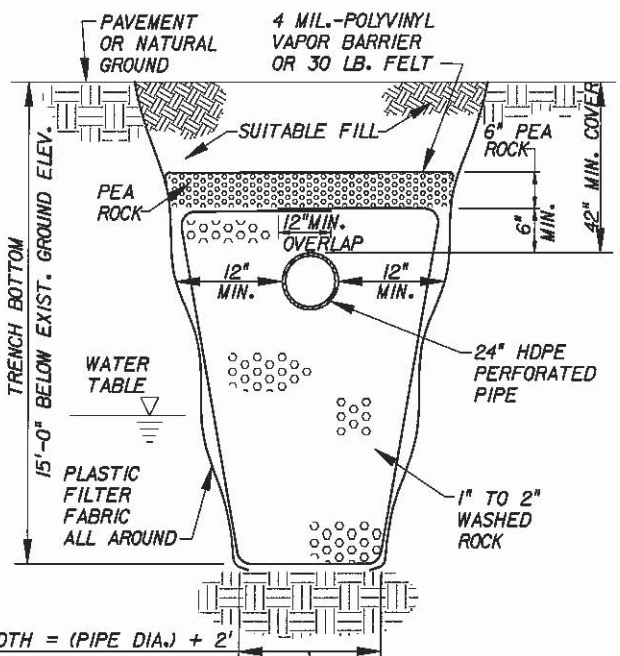
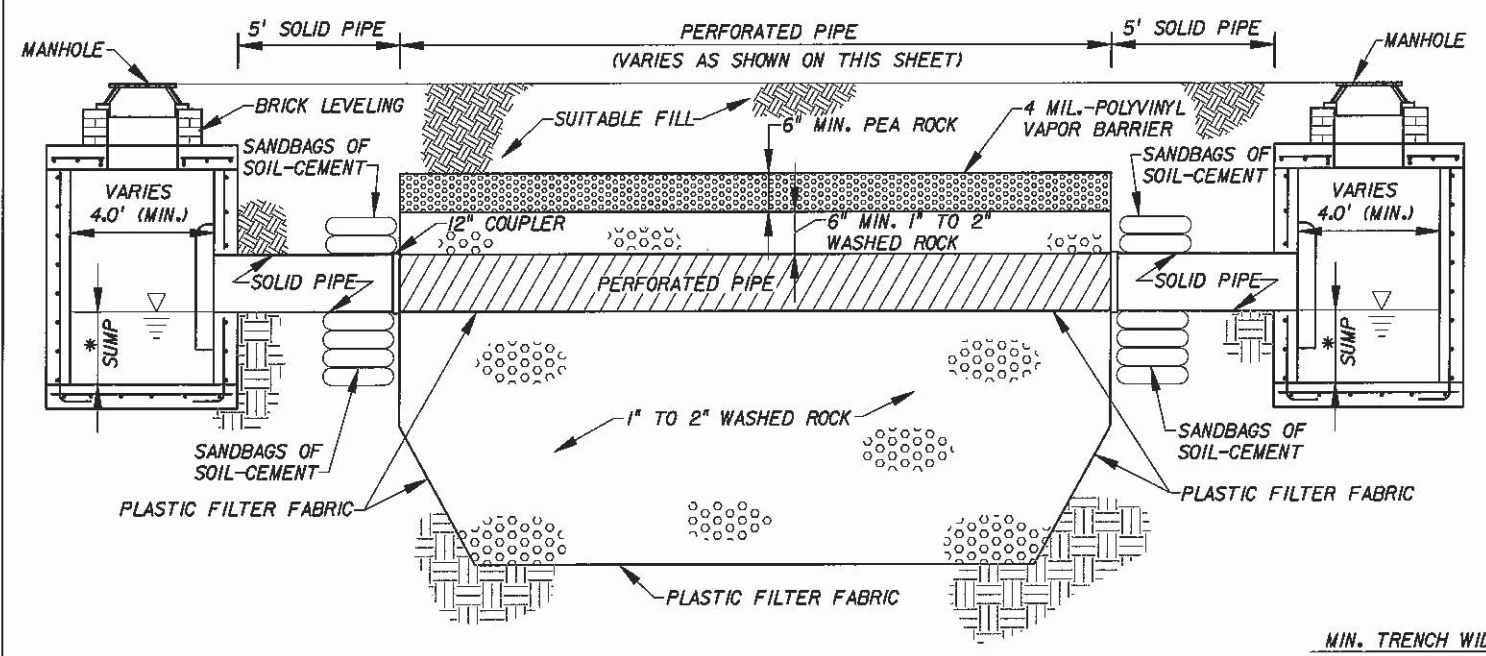
- LEGEND**
- +55.39 PROPOSED CURB & GUTTER STATIONS
 - X.XX' PROPOSED ELEVATION (EOP)
 - FLOW ARROW
 - EXISTING ELEVATION
 - MILLING AND RESURFACING 1"
 - ▨ EXISTING GRAVEL DRIVEWAY
 - ▩ EXISTING PAVER DRIVEWAY
 - ▭ EXISTING CONCRETE DRIVEWAY
 - ▮ MILLING AND RESURFACING LIMIT
 - ▯ PROPOSED ASPHALT APRON
 - ▧ RECONSTRUCTION AREA
 - ▨ PAVER DRIVEWAY RESTORATION
 - ▩ PROPOSED ASPHALT DRIVEWAY
 - ▮ REPLACE MOUNTABLE CURB & G MISC 35-85-22 (MATCH EXISTII)
 - ▯ PROPOSED TYPE F CURB & GU
 - ▧ REPLACE TYPE D CURB

NOTES:

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EXFILTRATION TRENCH DETAIL
N.T.S.

MIN. TRENCH WIDTH = (PIPE DIA.) + 2'

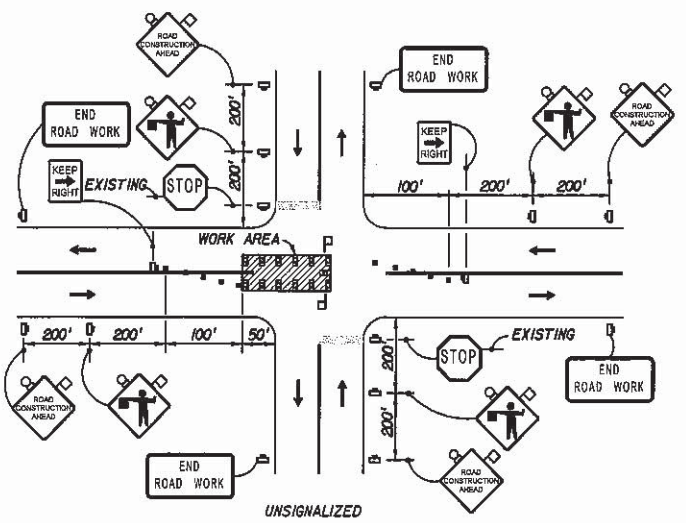
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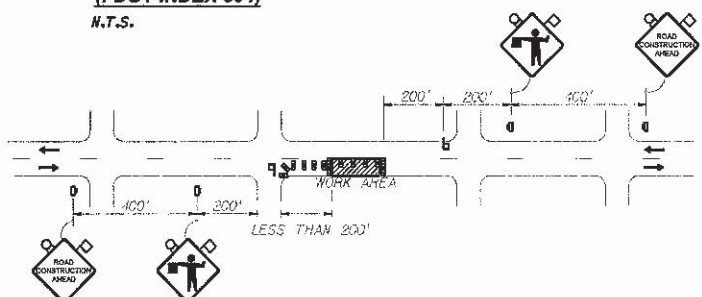
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DRAINAGE PLAN
SHEET NO. 7



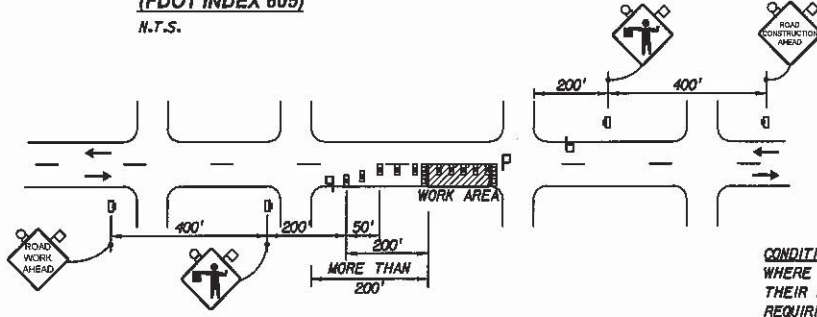
TWO-LANE TWO-WAY, WORK NEAR INTERSECTION
(FDOT INDEX 604)

N.T.S.



TWO-LANE TWO-WAY, WORK NEAR INTERSECTION
(FDOT INDEX 605)

N.T.S.



TWO-LANE TWO-WAY, WORK NEAR INTERSECTION
(FDOT INDEX 605)

N.T.S.

- SYMBOLS**
- WORK AREA
 - SIGN WITH 18" X 18" (MIN.) ORANGE FLAG AND TYPE B LIGHT
 - TYPE I OR TYPE II BARRICADE OR VERTICAL PANEL OR DRUM (WITH STEADY BURNING LIGHT AT NIGHT ONLY)
 - TYPE I OR TYPE II BARRICADE OR VERTICAL PANEL OR DRUM (WITH FLASHING LIGHT AT NIGHT ONLY)
 - WORK ZONE SIGN
 - FLAGGER
 - ADVANCE WARNING ARROW PANEL
 - LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
 - TYPE III BARRICADE

CONDITIONS:
WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH ON THE PAVEMENT REQUIRING THE CLOSURE OF A PORTION OF ONE OR MORE TRAFFIC LANES IN AN INTERSECTION.

CONDITIONS:
WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH ON THE PAVEMENT REQUIRING THE CLOSURE OF ONE TRAFFIC LANE, FOR WORK AREAS LESS THAN 200' DOWNSTREAM FROM AN INTERSECTION FOR A PERIOD OF MORE THAN 60 MINUTES.

CONDITIONS:
WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH ON THE PAVEMENT REQUIRING THE CLOSURE OF ONE TRAFFIC LANE, FOR WORK AREAS 200' OR MORE DOWNSTREAM FROM AN INTERSECTION FOR A PERIOD OF MORE THAN 60 MINUTES.

TRAFFIC CONTROL PLANS (TCP):

1. TRAFFIC CONTROLS 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 THAT AREA.
5. LANE CLOSURE SHALL OCCUR ONLY DURING NON-PEAK HOURS ON NON-EVENT DAYS/NIGHTS/WEEKENDS. NON-PEAK HOURS 9:00 AM TO 3:30PM 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 THEIR 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 IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
10. COST OF REMOVAL OF WORK ZONE PAVEMENT MARKINGS (INCLUDING PAINT, REMOVABLE 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. GRINDING OR MILLING SHALL ONLY BE PERMITTED IN NON-TRAFFIC AREAS.
11. TEMPORARY LANE TRANSITIONS, SHIFTS, AND CROSSOVERS SHALL HAVE SOLID LANE AND EDGE LINES FOR THE LENGTH OF THE TRANSITION, SHIFT OR CROSSOVER. IN ADDITION, SOLID LANE AND EDGE LINES SHALL EXTEND 100 FT ON TANGENT BEYOND EACH END OF THE TRANSITION, SHIFT, OR CROSSOVER. 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. ARROWS ON THE TCP DENOTE THE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS UNLESS SPECIFICALLY NOTED.
14. 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 INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
15. CONTRACTOR TO MAINTAIN LEFT TURNS AT THE INTERSECTIONS WITH STORAGE FOR TWO VEHICLES.
16. 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.
17. 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.

SIGNALS:

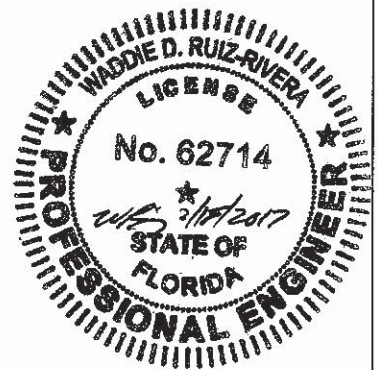
1. CONTRACTOR SHALL NOTIFY MIAMI-DADE COUNTY SIGNS AND SIGNALS DIVISION LOCATED AT 7100 N.W. 36TH STREET, MIAMI, FLORIDA 33166 AND PHONE NO. (305) 592-3470, 48 HOURS PRIOR TO ANY MODIFICATION OF AN EXISTING TRAFFIC SIGNAL SYSTEM. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE MAINTENANCE OF THE EXISTING OR TEMPORARY TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS. COST OF RELOCATING TRAFFIC SIGNAL HEADS, PROVIDING AND REMOVING TEMPORARY POLES, SIGNAL HEADS, LOOPS ETC., AND MAINTAINING THE EXISTING OR TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
2. THE CONTRACTOR SHALL MAINTAIN ONLINE COMMUNICATION OF EXISTING OR TEMPORARY SIGNALIZATION VIA INTERCONNECT OF PHONE LINE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY LINES AND CONNECTIONS IF NECESSARY. COST OF MAINTAINING COMMUNICATION, INCLUDING TEMPORARY LINES AND CONNECTIONS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

INTERSECTIONS:

1. INTERSECTIONS SHALL BE RECONSTRUCTED WORKING ON A CONTINUOUS DAILY BASIS UNTIL COMPLETE AND UNTIL THE STRUCTURAL COURSE IS PLACED.
2. W.O.T. TRANSITIONS AND TEMPORARY INTERSECTION CROSSOVERS WHERE CONSTRUCTION HAS CAUSED GRADE DIFFERENCES BETWEEN THE EXISTING AND NEW ROADWAYS SHALL BE CONSTRUCTED USING A 1:20 TYPE SP ASPHALT CONCRETE SLOPE TO ACCOMMODATE VEHICULAR TRAFFIC FROM ANY DIRECTION. ALL MATERIAL AND WORK, INCLUDING ITS REMOVAL, SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

PEDESTRIANS, BICYCLES, AND WHEELCHAIRS:

1. 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 HANDRAIL. COST SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
2. CONSTRUCTION ACTIVITIES THAT INVOLVES SIDEWALKS ON BOTH SIDES OF THE STREET ARE NOT ALLOWED UNLESS APPROVED BY THE ENGINEER.
3. MAINTAIN PEDESTRIAN ACCESS TO BUS STOP LOCATIONS IN PROJECT AREA. IF BUS STOP MUST BE RELOCATED, PLEASE CONTACT MRS. JUDY EMERSON MDTA AT (786) 469-5073.
4. CONTRACTOR SHALL REFER TO STANDARD INDEX NO. 660 FOR PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS.



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

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
ENTRADA NEIGHBORHOOD DRAINAGE IMPROVEMENTS	B-30836

TRAFFIC CONTROL NOTES AND DETAILS

SHEET NO.	8
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SWPPP - NARRATIVE

1. PROJECT/SITE DESCRIPTION

a. CONSTRUCTION ACTIVITY:

THE IMPROVEMENTS INCLUDE INSTALLATION OF FRENCH DRAINAGE, PIPING, DRAINAGE STRUCTURES, PAVEMENT MARKINGS, MILLING & RESURFACING, CURB AND GUTTER.

PROJECT LIMITS:

CURTIS LANE, ROGERS ROAD, MATHESON AVENUE AND STEWART AVENUE EAST OF SW 37TH AVENUE, LOQUAT AVENUE EAST OF LINDEN LANE.

PROJECT DESCRIPTION:

THE PROJECT CONSISTS OF DRAINAGE IMPROVEMENTS SUCH AS INSTALLATION OF FRENCH DRAINAGE, PIPING, AND DRAINAGE STRUCTURES.

b. MAJOR SOIL DISTURBING ACTIVITIES:

- CLEARING & GRUBBING
- REGULAR EXCAVATION
- REMOVAL OF EXISTING PAVEMENT
- DRAINAGE STRUCTURE INSTALLATION
- TRENCH EXCAVATION

c. TOTAL PROJECT AREA:

1.92 ACRES

TOTAL AREA TO BE DISTURBED:

0.05 ACRES

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

BEFORE 0.98
DURING 0.95
AFTER 0.98

(2) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:

N/A

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

N/A

e. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS :

N/A

f. (1) NAME OF RECEIVING WATERS:

N/A

(2) WETLAND AREA:

N/A

2. CONTROLS

NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS: PRIOR TO THE START OF CLEARING AND GRUBBING OPERATIONS, INLET PROTECTION SHALL BE PROVIDED TO THE EXISTING STRUCTURES. IN ADDITION, INLET PROTECTION WILL BE PROVIDED TO THE NEW STRUCTURES AFTER INSTALLATION.

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 OR AS SPECIFIED IN THE DRAWINGS AND PERFORM DAILY DUST CONTROL.

(2) 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 PROPOSED IMPROVEMENTS PROVIDE 140 LF OF FRENCH DRAIN, DRAINAGE INLETS, MANHOLES AND PIPING AND CHECK VALVE.

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:

N/A

(4) FERTILIZERS, PESTICIDES AND TREES:

NO FERTILIZERS OR PESTICIDES WILL BE USED AT THE SITE.

(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 CONTRACT PLANS. HOWEVER, IT 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 PROJECT ENGINEER AT 305-551-4608

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

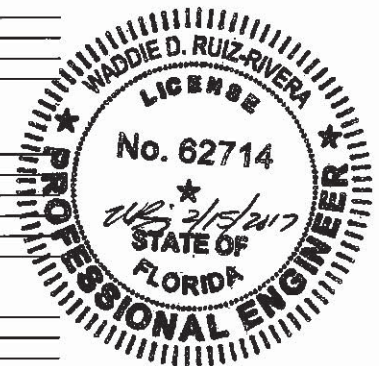
- 1. NPDES PERMIT (0.5 ACRE OR MORE)
- 2. NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) FOR PROJECTS DISTURBING MORE THAN 1 ACRE.
- 3. DADE COUNTY PERMITTING, ENVIRONMENT AND REGULATORY AFFAIRS (RER) CLASS II-STORMWATER MANAGEMENT PERMIT AND DEWATERING PERMIT.
- 4. ENVIRONMENTAL RESOURCES (ERP) PERMIT FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)
- 5. U.S. ARMY CORPS 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.



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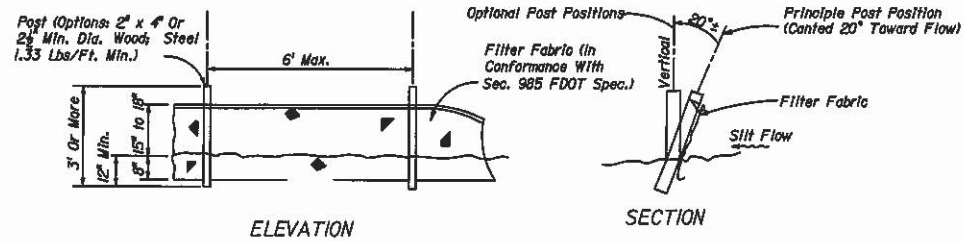
CITY OF MIAMI
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CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
ENTRADA NEIGHBORHOOD DRAINAGE IMPROVEMENTS	B-30836

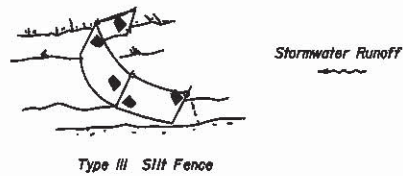
**STORMWATER POLLUTION
PREVENTION NOTES**

SHEET NO.
9

SWPPP - DETAILS

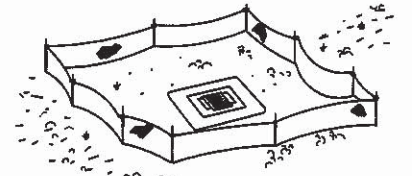


SILT FENCE DETAIL
N.T.S.



Notes

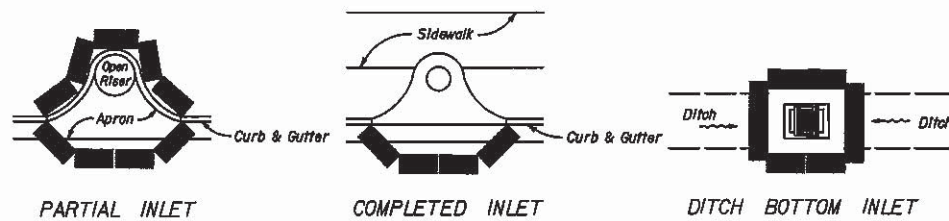
1. Spacing for Type III Fence to be in accordance with Chart 1, Sheet 1 of 3 and ditch installations at drainage structures Sheet 2 of 3 per 2010 FDOT Design Standards Index 102



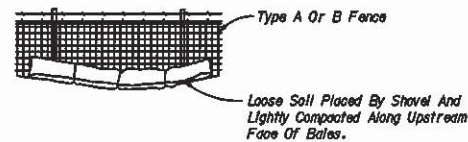
Type III Silt Fence Protection Around Ditch Bottom Inlets.

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 spaced in accordance with Chart 1, sheet 1 per Index 102 of the 2010 FDOT Design Standards.
2. Bales shall be anchored with 2" 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.

NOTES:

Total Acreage of Disturbed Soil 0.05 AC

PW NPDES Permit No. N/A

Date Issued: N/A

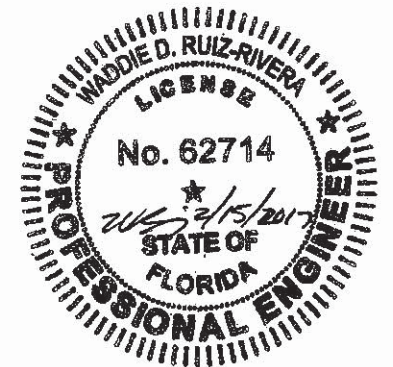
**STORM WATER POLLUTION PREVENTION PRACTICES:
(FOR PROJECTS OF 0.5 ACRE OR MORE - CITY ORDINANCE No. 13081)**

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. 35-89-8.
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 WATER MAIN
 3. INSTALL DRAINAGE STRUCTURES AND PIPES
 4. TRENCH RESTORATION/STABILIZATION/BASE PREPARATION/ASPHALT APPLICATION
 5. FILTER FABRIC TO THE GRATE AT INLETS
 6. MILLING & RESURFACING
 7. INSTALLATION OF STREET SIGNING
 8. PAVEMENT MARKING
 9. CLEAN ALL CONSTRUCTION DEBRIS FROM CONSTRUCTION SITE
 10. REMOVE FILTER FABRIC FROM INLET STRUCTURES
- 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. REPORT NON-STORM WATER DISCHARGE (INCLUDING SPILL) (305) 416-1200.
 5. VISIT www.dep.state.fl.us/water/stormwater/npdes/



REVISIONS		
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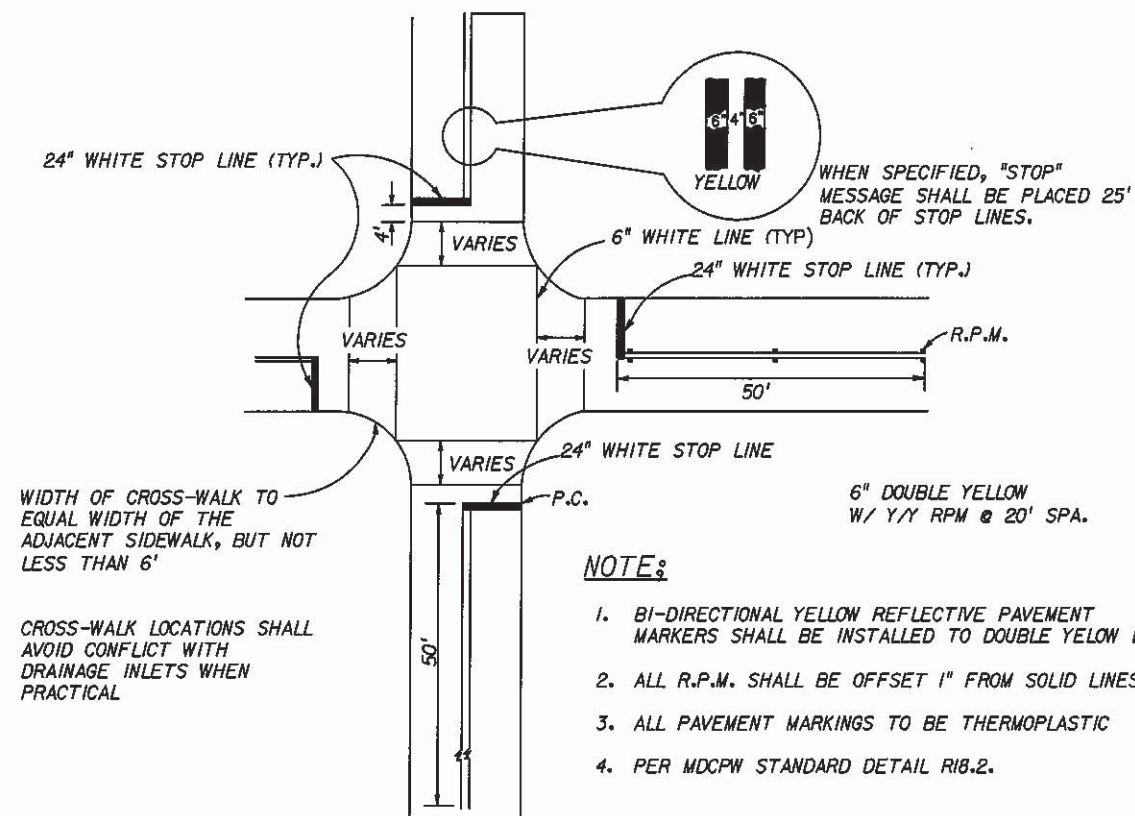
CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
PROJECT NAME: **ENTRADA NEIGHBORHOOD DRAINAGE IMPROVEMENTS**
PROJECT No.: **B-30836**

SWPPP NOTES AND DETAILS

SHEET NO.
10

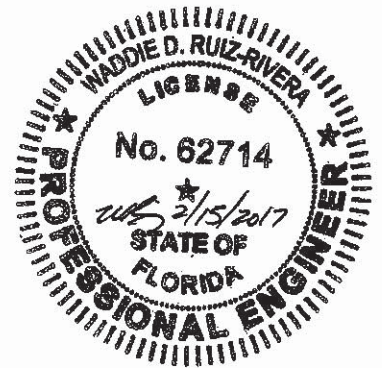
SIGNING & PAVMENT MARKING NOTES:

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 FOR STREET AND HIGHWAYS, AND THE 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 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.



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CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM

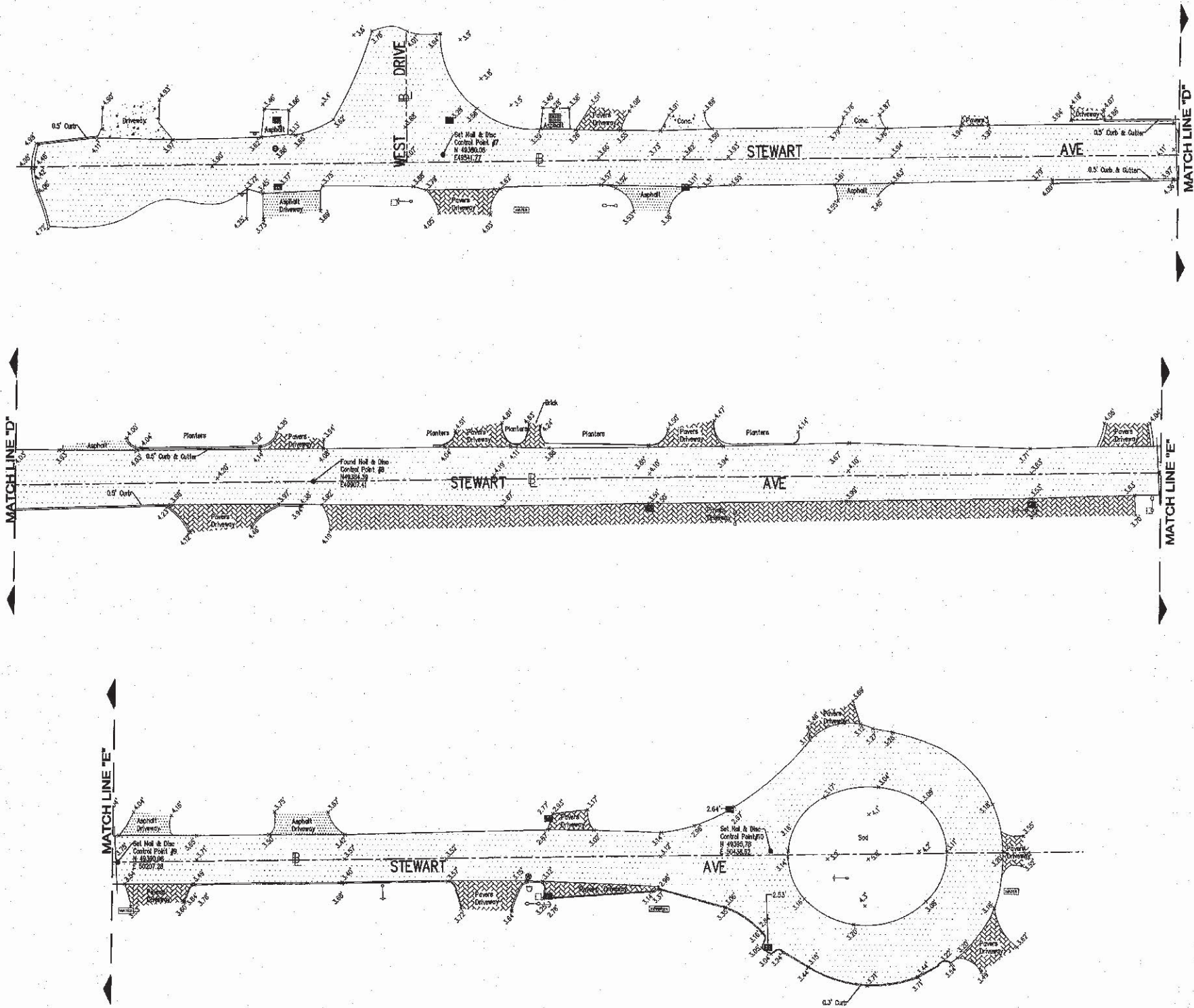
PROJECT NAME	PROJECT No.
ENTRADA NEIGHBORHOOD DRAINAGE IMPROVEMENTS	B-30836

PAVEMENT MARKING NOTES & DETAILS

SHEET NO.

S-1

SPECIFIC PURPOSE SURVEY



- ABBREVIATIONS**
- PK : Parker Kelon
 - IP : Iron Pipe
 - PL : Planter
 - PCP : Permanent Control Point
 - OBS : Concrete Block Structure
 - Fnd. : Found
 - NAP : Not a Part
 - ORB : Official Record Book
 - PG : Page
 - M : Monument Line
 - C : Center Line
 - B : Base Line

- SYMBOL LEGEND**
- Fire Hydrant
 - Water Valve
 - Catch Basin
 - Single Support Sign
 - Wire Pullbox
 - Manhole Drainage
 - Water Meter
 - Concrete Light Pole
 - Guard Post
 - Manhole Sanitary
 - Concrete Pole
 - Guy Anchor
 - Water Valve
 - Concrete Lamp



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 SURVEYORS & MAPPERS
 Miami, Florida, 33133
 305-860-3870 (FAX)
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ENTRADA NEIGHBORHOOD
ERB-C036-0813-04-TWO 01

No.	Date	Appr'd.	Job No.	Description

Sheet: 3 OF 4
 J.N. 57871-A
 Sk. No. _____
M-2623

SPECIFIC PURPOSE SURVEY

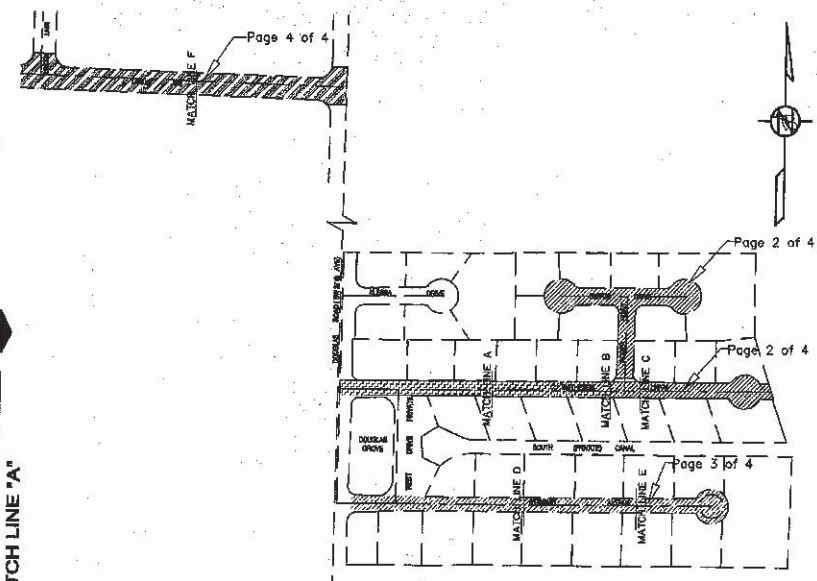


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 2434 SW 28th Lane
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 F.B. Cert. No. 13761

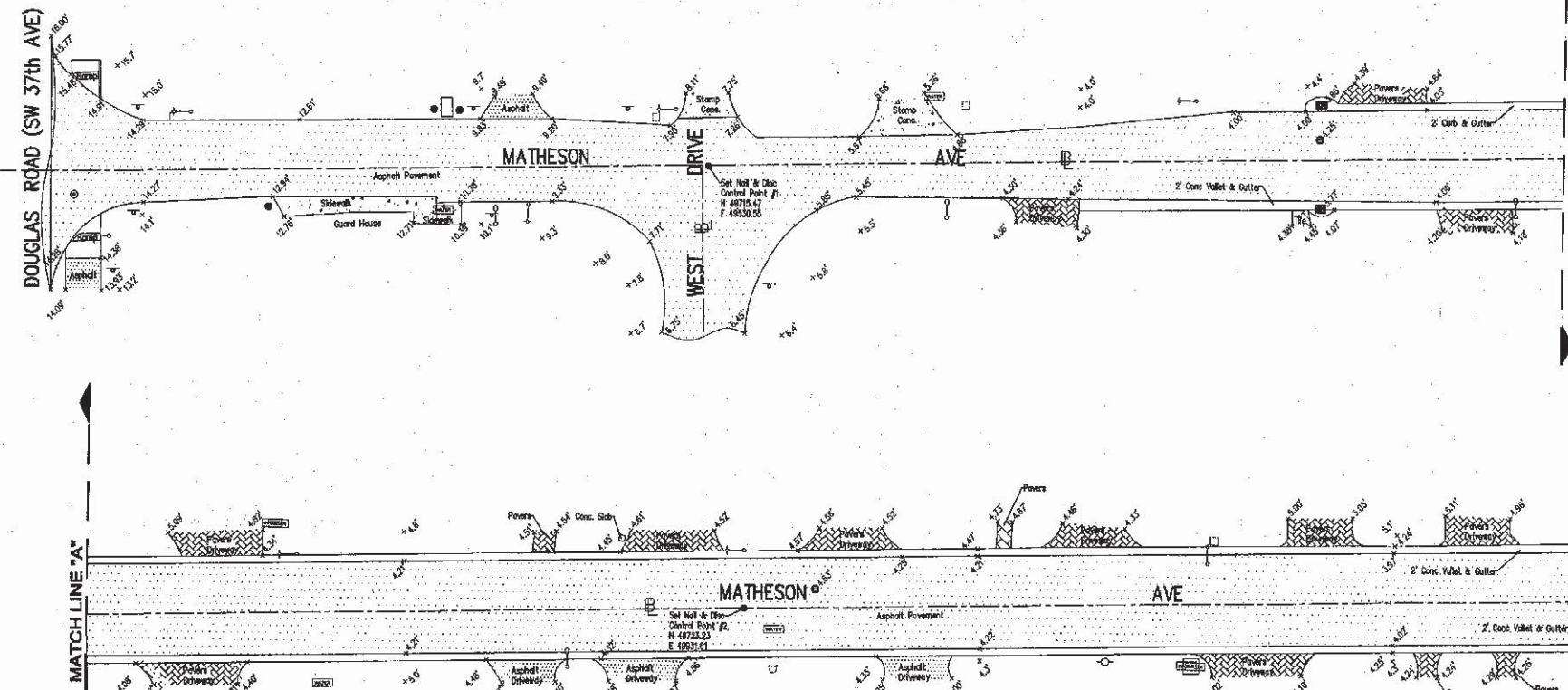
CITY OF MIAMI
ENTRADA NEIGHBORHOOD
ERB-C036-0813-04-TWO 01

No.	Date	App'd.	Job No.	Description

Sheet: 1 of 4
 J.N. 57871-A
 S.C. No.
M-2623



LOCATION MAP
 Not to Scale
 A Portion of the SW 1/4 of Section 28, Township 51S,
 Range 41 E Miami Dade County, Florida



- ABBREVIATIONS**
- PK : Parker Kalon
 - IP : Iron Pipe
 - PI : Planter
 - PCP : Permanent Control Point
 - CBS : Concrete Block Structure
 - Fnd. : Found
 - NAP : Not a Part
 - ORB : Official Record Book
 - PG : Page
 - M : Monument Line
 - C : Center Line
 - B : Base Line

- SYMBOL LEGEND**
- Fire Hydrant
 - Water Valve
 - Catch Basin
 - Single Support Sign
 - Wire Pullbox
 - Manhole Drainage
 - Water Meter
 - Concrete Light Pole
 - Guard Post
 - Manhole Sanitary
 - Concrete Pole
 - Guy Anchor
 - Water Valve
 - Concrete Lamp

POINT No.	N	E
1	49715.47'	49530.55'
2	49723.23'	49931.61'
3	49728.28'	50201.10'
4	50004.59'	50201.10'
5	50003.88'	50014.29'
6	49736.82'	50549.41'
7	49380.08'	49541.77'
8	49384.39'	49907.41'
9	49380.08'	50207.28'
10	49395.78'	50436.62'
11	5000.00'	5000.00'
12	5000.00'	5551.03'

SURVEYOR'S NOTES:

THIS IS NOT A BOUNDARY SURVEY. The scope of this SPECIFIC PURPOSE SURVEY is to show the topographic location of the improvements within the limits of the asphalt pavement along Matheson Avenue, Steward Avenue, Curtis Drive, Roger Road and the end portions of West Drive with its intersection on the north with Matheson Avenue and on the south with Steward Avenue, and also along Local Avenue, from its intersection on the west with Linder Lane and on the east with SW 37th Avenue; all this lands lying in the SW 1/4 of SECTION 28, TOWNSHIP 54 SOUTH, RANGE 41 EAST, in MIAMI-DADE COUNTY, FLORIDA.

The Bearings and Horizontal coordinates as shown herein were derived using the TopNET GNSS Network, a Network Real Time Kinematic (NRTK) service. The Network broadcasts in NAD 83 and NAVD 83 datums with stated horizontal accuracies to 0.04 and vertical accuracies to 0.07. Horizontal coordinates are based on the State Plane Coordinate system, Florida East Zone. Bearings are based on a meridian, where the alignment between Control Point # 11 and Control Point # 12, located along Local Avenue, as shown on this Specific Purpose Survey, bears Due East. Said Meridian defined by Control Point # 11 and Control Point # 12 that match the location of the City of Miami Monument Line along Local Avenue between Linder Lane and SW 37th Avenue as shown on the City of Miami Public Works Department Municipal Atlas Sheet No. 47R, as they were recovered on the field. Also Base line location as shown for other streets and/or avenues were determined using the best fit alignment between recovered points along the apparent street center line. All distances as shown are based on the US Survey foot.

Elevations are referred to the National Geodetic Vertical Datum, 1929 (NGVD). Elevations are based on Miami-Dade County Benchmark HERNDON, the same being a US C&G Brass Disc in concrete wall, located 245 feet East of the centerline of SW 37th Avenue and 54 feet East of the centerline of West Drive, elevation 4.26 feet (NGVD 1929), and Benchmark G-51, the same being a PK Nail and aluminum weather in concrete sidewalk located at 57 feet SE of the centerline of Main Hwy and 54 feet East of the centerline of SW 37th Avenue, elevation 15.17 feet (NGVD 1929).

The accuracy obtained for all horizontal control measurements and office calculations of closed geometric figures, meets or exceeds the Minimum Technical Standards as set forth by the Florida Board of Professional Surveyors and Mappers as contained in Chapter 6J-17.051 of 1 foot in 7,500 feet for Suburban Areas. The elevations as shown are based on a closure of 1 foot in 7,500 feet for Suburban Areas. The elevations as shown are based on a closure between the two benchmarks noted above, and meets or exceeds the Minimum Technical Standards as set forth by the Florida Board of Professional Surveyors and Mappers as contained in Chapter 6J-17.051(a)(b)15. a. of a closure in feet plus or minus 0.05 feet times the square root of the distance in miles.

This SKETCH OF SPECIFIC PURPOSE SURVEY is based on: (i) recovered monumentation and (ii) the underlying Plat of ENTRADA recorded in Plat Book 5, at Page 64, (iii) the underlying Plat of KLEBBA BAY ESTATES recorded in Plat Book 95, at Page 20, (iv) the underlying Plat of DOUGLAS GROVE recorded in Plat Book 111, at Page 46, (v) the underlying Plat of NORTH ESTATES recorded in Plat Book 148, at Page 27, (vi) the underlying Plat of POWAMA DOUGLAS recorded in Plat Book 18, at Page 75, (vii) the underlying Plat of IRVINGTOWN recorded in Plat Book 7, at Page 66, and (viii) the City of Miami Public Works Department Municipal Atlas Sheet No. 48L and 47R. Although the information depicted on said map was prepared from the best available information, City of Miami assumes no responsibility for any error or omission.

Any notorious evidence of occupation and/or use of the lands by adjoining properties for Right-of-Way, Egress or Egress are shown on this survey drawings. However, this survey does not intend to reflect any recorded instruments or Right-of-Way other than as shown on the underlying record plat or as stated in the legal description or as noted in the recorded documents provided to the Surveyor. The Surveyor did not recover the Right of Way location as per client request.

Except Local Avenue, the subject streets lies within four different flood areas. Said streets, lies within a Special Flood Hazard Area (SFHA) as defined by the Federal Emergency Management Agency, The National Flood Insurance Rate Map for Dade County, Florida, and incorporated Areas Map No. 12085C458L and Map Number 12085C0478L, for the Community No. 120850 (City of Miami), bearing an effective and revised date of September 11, 2009, and delineates that portion of the herein described lands lying within the SFHA to be situated within Zone "VE", base flood elevation 15, 13 and 12 feet as moving inland from the waterways, and that portion of the intersection between Douglas Road and Matheson Avenue which lies within Zone X, an area to be outside of the 0.2% annual chance floodplain. Local Avenue, does not lie within a Special Flood Hazard Area (SFHA) as shown on the National Flood Insurance Programs, Flood Insurance Rate Map for Miami-Dade County, Florida and incorporated Areas Map No. 12085C0457L, Community No. 120650 (City of Miami), bearing a revised date of September 11, 2009. Said map delineates the herein described land to be situated within Zone X, lying within an area of 0.2% annual chance flood.

This sketch shown herein in its graphic form is the record depiction of the surveyed lands described herein and will in no circumstances be supplanted in authority by any other graphic or digital format of this Topographic Survey. This map is intended to be displayed at a scale of 1"=20' or smaller.

SURVEYOR'S CERTIFICATION:

To: ADA ENGINEERING, INC.

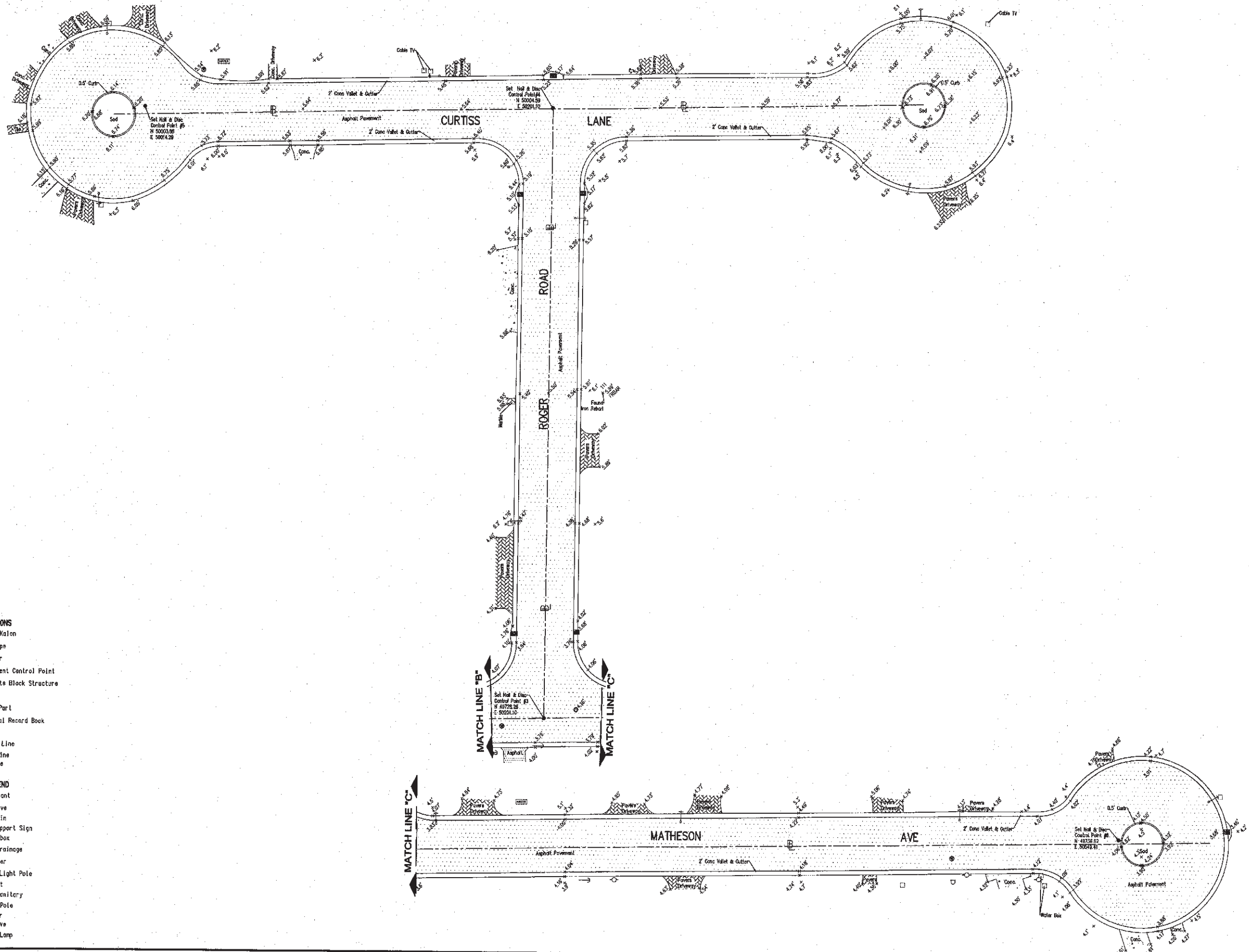
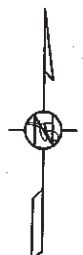
This is to certify to the herein named firm and/or persons, that in my professional opinion, this SPECIFIC PURPOSE SURVEY is true and correct based on our field Survey dated May 13, 2015. I further certify that this map or plat meets the Minimum Technical Standard Requirements, adopted by the Board of Professional Surveyors and Mappers, pursuant to Chapter 47.027 Florida Statutes, as set forth in Chapter 6J-17, Florida Administrative Code under Sections 6J-17.051 and 6J-17.052 and is a "SPECIFIC PURPOSE SURVEY" as defined in Section 6J-17.050(10)(g) for the purposes detailed herein.

E.R. BROWNELL & ASSOCIATES, INC.

Thomas Brownell
 Executive Vice President
 Professional Land Surveyor #2291
 State of Florida

The survey map and notes and/or report or the copies thereof are not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper. Addition or deletion to survey maps or reports by other than the signing party or parties is prohibited without written consent of the signing party or parties.

SPECIFIC PURPOSE SURVEY



- ABBREVIATIONS**
- PK : Parker Kalon
 - IP : Iron Pipe
 - PL : Planter
 - PCP : Permanent Control Point
 - CBS : Concrete Block Structure
 - Fnd. : Found
 - NAP : Not a Part
 - ORB : Official Record Book
 - PG : Page
 - M : Monument Line
 - CL : Center Line
 - BL : Base Line

- SYMBOL LEGEND**
- Fire Hydrant
 - Water Valve
 - Catch Basin
 - Single Support Sign
 - Wire Pullbox
 - Manhole Drainage
 - Water Meter
 - Concrete Light Pole
 - Guard Post
 - Manhole Sanitary
 - Concrete Pole
 - Guy Anchor
 - Water Valve
 - Concrete Lamp



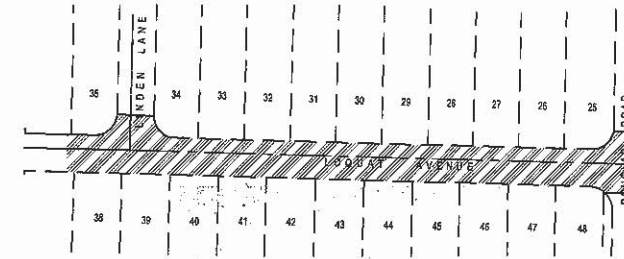
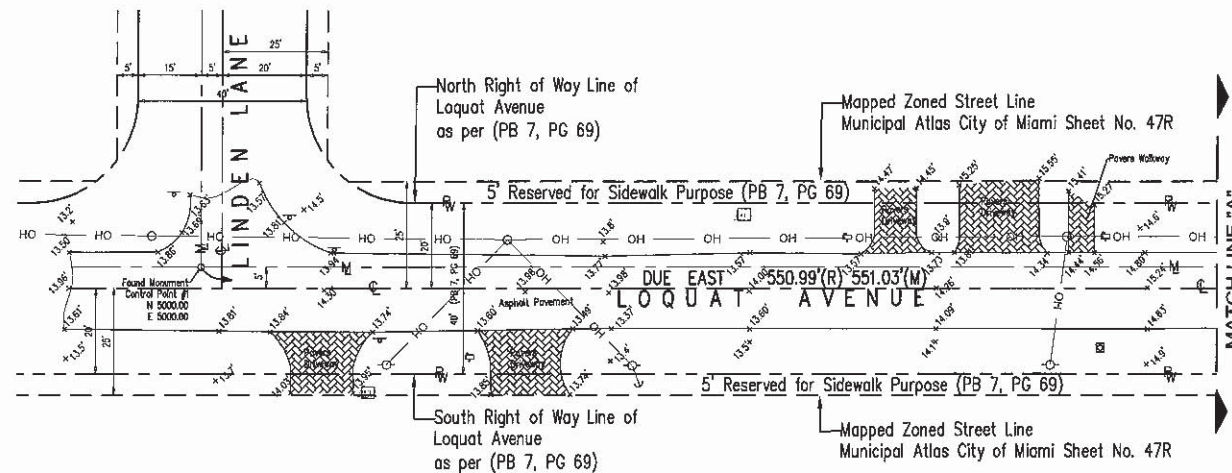
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ENTRADA NEIGHBORHOOD
ERB-C086-0813-04-TWO 01

No.	Date	App'd. Job No. Description

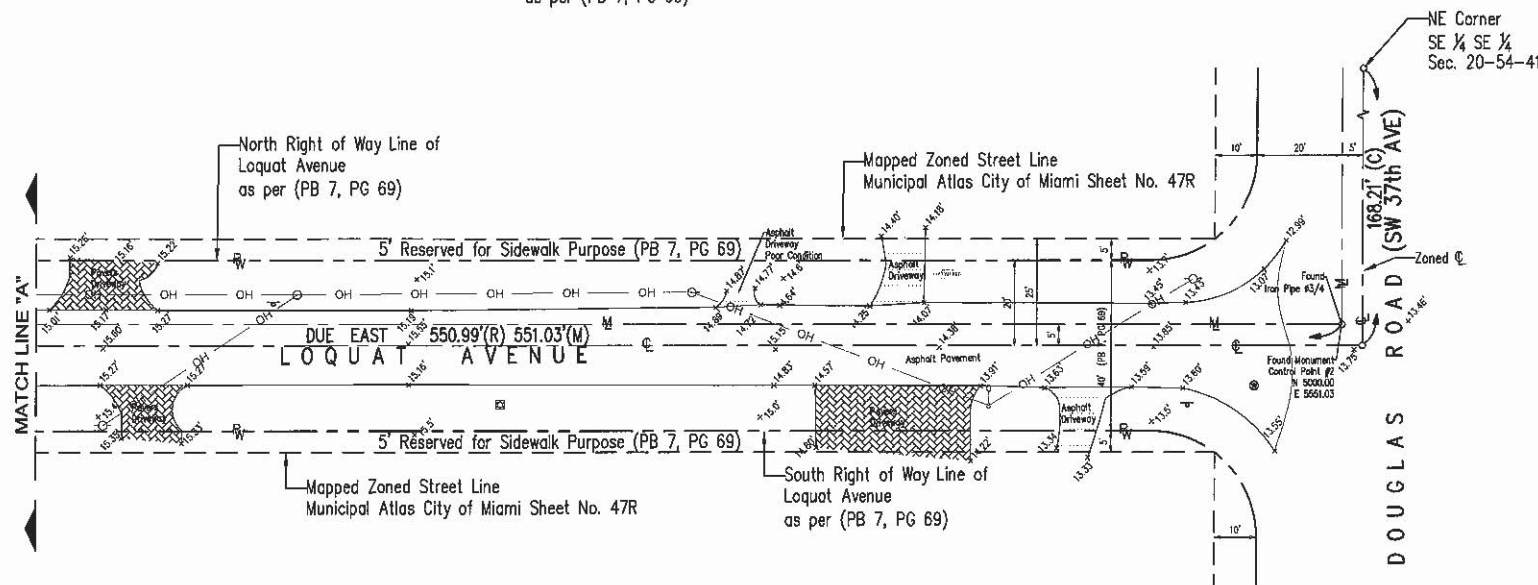
Sheet: 2 OF 4
 J.N. : 57871-A
 Sk. No. _____
M-2623

SPECIFIC PURPOSE SURVEY



LOCATION MAP

Not to Scale
A Portion of the SE 1/4 of Section 20, Township 54S,
Range 41 E Miami Dade County, Florida



SURVEYOR'S NOTES:

Bearings are based on an assumed meridian, where the alignment between Control Point # 1 and Control Point # 2, located along Loquat Avenue, as shown on this Specific Purpose, bears Due East. Base line used (Control Point #1 - Control Point # 2) match the location of the City of Miami Monument Line along Loquat Avenue Between Linden Lane and SW 37th Avenue as shown on the City of Miami Public Works Department Municipal Atlas Sheet No.47R and recover on the field. All distances as shown are based on the US Survey foot.

THIS IS NOT A BOUNDARY SURVEY. The scope of this SPECIFIC PURPOSE SURVEY is to show the topographic location of the improvements within the limits of the asphalt pavement along Loquat Avenue, from its intersection on the west with Linden Avenue and on the east with SW 37th Avenue, all the lands lying in the SW 1/4 of SECTION 20, TOWNSHIP 54 SOUTH, RANGE 41 EAST, in MIAMI-DADE COUNTY, FLORIDA.

Elevations are referred to the National Geodetic Vertical Datum, 1929 (NGVD). Elevations are based on Miami-Dade County Benchmark HERNDON, the same being a US C&G Brass Disc in concrete wall, located 215 feet East of the Centerline of SW 37th Avenue and 54 feet East of the centerline of West Drive, elevation 4.28 feet (NGVD 1929), and Benchmark G-51, the same being a PK Nail and aluminum washer in concrete sidewalk located at 37 feet SE of the centerline of Miami Hwy and 54 feet East of the centerline of SW 37th Avenue, elevation 19.17 feet (NGVD 1929).

The accuracy obtained for all horizontal control measurements and office calculations of closed geometric figures, meets or exceeds the Standards of Practice as set forth by the Florida Board of Professional Surveyors and Mappers as contained in Chapter 5J-17.051 of 1 foot in 7,500 feet for Suburban Areas. The elevations as shown are based on a closure between the two benchmarks noted above, and meets or exceeds the Standards of Practice as set forth by the Florida Board of Professional Surveyors and Mappers as contained in Chapter 5J-17.051(3)(D)15.a, of a closure in feet of plus or minus 0.05 feet times the square root of the distance in miles.

This SKETCH OF SPECIFIC PURPOSE SURVEY is based on: (i) recovered monumentation (ii) the underlying Plat of DOUGLAS CIRCLE recorded in Plat Book 7, at Page 69, and (iii) the City of Miami Public Works Department Municipal Atlas Sheet No.47R. Although the information depicted on said Map was prepared from the best available information, City of Miami assumes no responsibility for any errors or omissions.

Any notorious evidence of occupation and/or use of the lands by adjoining properties for Right-of-Way, ingress or egress are shown on this survey drawing. However, this survey does not purport to reflect any recorded instruments or Right-of-Way other than as shown on the underlying record plat or as stated in the legal description or as noted in the recorded documents provided to the Surveyor. There is no roadway dedication statement on the face of the said plat of DOUGLAS CIRCLE recorded in Plat Book 7, at Page 69. Noting, however, as evidenced by a note placed on the face of said plat that hereby reserved and set aside the five (5) feet from the front of all lots for sidewalk purposes. In addition there is also a note on the face of said plat of DOUGLAS CIRCLE made by the Board of County Commissioners of Dade County, Florida under Resolution No. 4463, recorded in Official Records Book 1884 at Page 501 accepted dedications or offers to dedicate roadways shown on plat. Said resolution did not locate or define the accepted dedications. The roadways shown on the aforementioned plat are an indication of the intent to dedicate roadways per the City of Miami Public Works Department Municipal Atlas Sheets. The Right of Way locations supported by the information obtained from the Public Works Department have not been abstracted nor is the information warranted by the City of Miami. Baseline was provided with traverse points along the project as per client request as shown on the Control Point Table attached.

The Subject Property does not lie within a Special Flood Hazard Area (SFHA) as shown on the National Flood Insurance Programs, Flood Insurance Rate Map for Miami-Dade County, Florida and Incorporated Areas Map No. 12160C0451, Community No. 120550 (City of Miami), bearing a revised date of September 11, 2009. Said map delineates the herein described land to be situated within Zone X, lying within an area determined to be outside the 0.2% annual chance floodplain.

This sketch shown hereon in its graphic form is the record depiction of the surveyed lands described herein and will in no circumstances be supplanted in authority by any other graphic or digital format of this Topographic Survey. This map is intended to be displayed at a scale of 1"=20' or smaller.

SURVEYOR'S CERTIFICATION:

To: ADA ENGINEERING, INC.

This is to certify to the herein named firm and/or persons, that in my professional opinion, this SPECIFIC PURPOSE SURVEY is true and correct based on our field Survey dated May 13, 2015. I further certify that this map or plat meets the Standards of Practice, adopted by the Board of Professional Surveyors and Mappers, pursuant to Chapter 472.027 Florida Statutes, as set forth in Chapter 5J-17, Florida Administrative Code, under Sections 5J-17.051 and 5J-17.052 and is a "SPECIFIC PURPOSE SURVEY" as defined in Section 5J-17.05(10)(i) for the purposes detailed herein.

E.R. BROWNELL & ASSOCIATES, INC.

Thomas Brownell
Executive Vice President
Professional Land Surveyor #2891
State of Florida

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CONTROL POINT TABLE		
POINT No.	N	E
1	5000.00'	5000.00'
2	5000.00'	5551.03'

SYMBOL LEGEND

- ☐ Fire Hydrant
- ⊕ Meter Valve
- ⊕ Catch Basin
- ⊕ Single Support Sign
- ⊕ Wire Pullbox
- ⊕ Manhole Drainage
- ⊕ Water Meter
- ⊕ Concrete Light Pole
- ⊕ Guard Post
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- ⊕ Concrete Pole
- ⊕ Guy Anchor
- ⊕ Water Valve
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ABBREVIATIONS

- PK : Parker Kalon
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Certification No.: LB76

LOQUAT AVENUE
ERB-C036-0813-04-TWO 01

No.	Date	App'd.	Job No.	Description

Sheet: 1 of 1
J.N. 57871-A
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