

MIAMI-DADE WATER AND SEWER DEPARTMENT

UTILITY PIPELINE ENGINEERING & CONSTRUCTION DIVISION

3071 S.W. 38th AVENUE MIAMI, FLORIDA 33146-1520

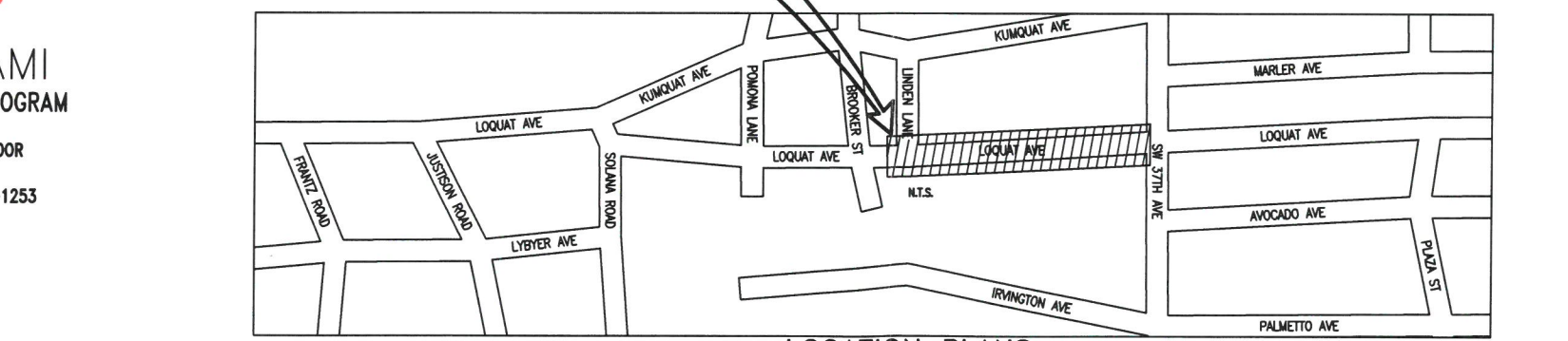
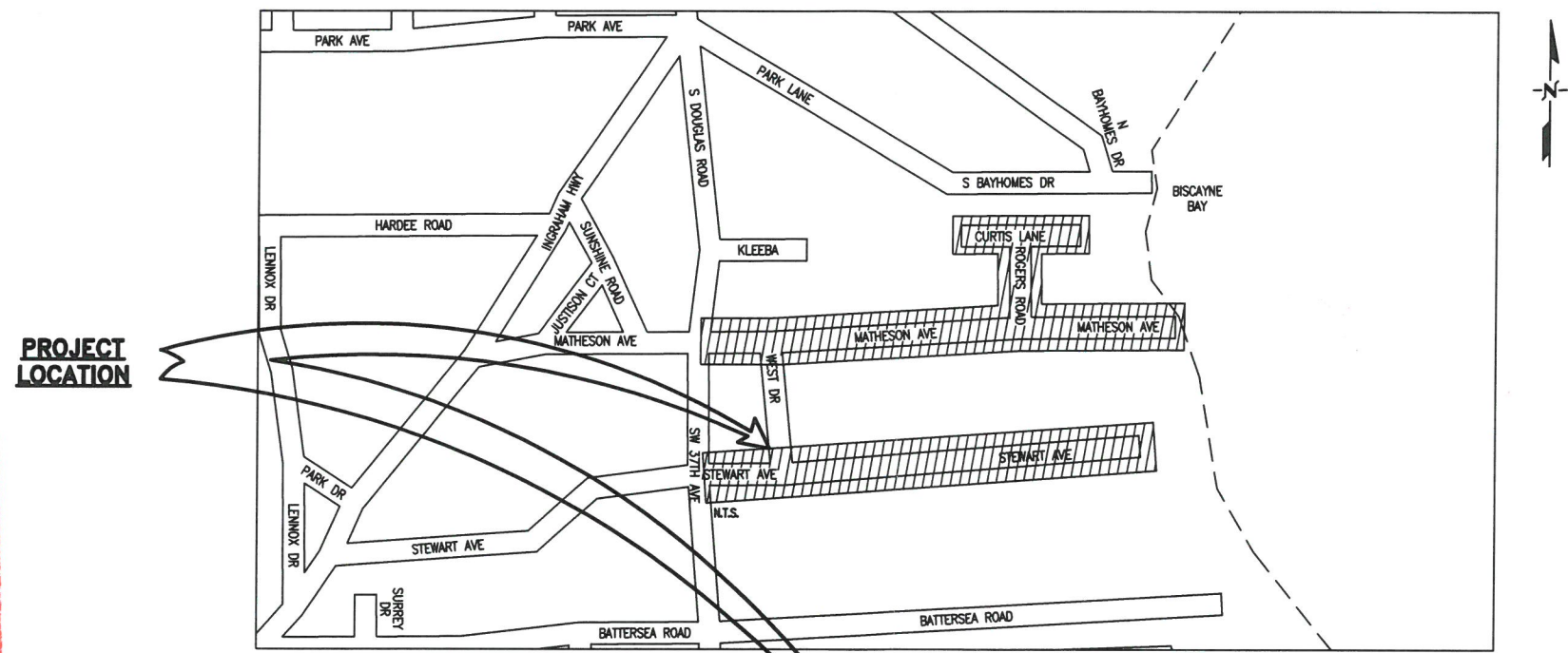
FURNISH & INSTALL 8-INCH D.I. WATER MAIN WITHIN ENTRADA NEIGHBORHOOD (MATHESON AVE. EAST OF SW 37th AVE. INCL. ROGERS RD. & CURTIS LN; AND STEWART AVE. EAST OF SW 37th AVE.) AND LOQUAT AVE. FROM S.W. 37th AVE. TO LINDEN LN. (LINDEN AVE.)

PCTS No. 14590, ER No. W017003

CITY OF MIAMI J.P.A. No. B30836

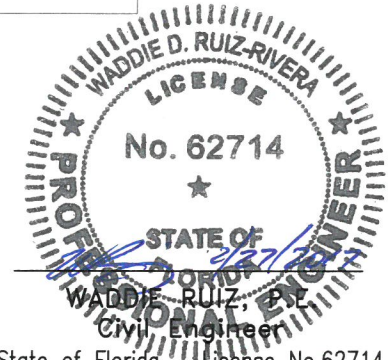
MIAMI-DADE WATER AND SEWER DEPARTMENT
 Date: 3-1-17 Contract No.: W017003
 APPROVED
 APPROVED SUBJECT TO NOTATIONS AND CORRECTIONS AS INDICATED.
 DISAPPROVED, REVISE AS INDICATED BY NOTATIONS AND CORRECTIONS, AND RESUBMIT.
 Checking of shop drawing submittals is limited to general design and general arrangements only. It is not intended to be a verification of the items, or total material required. Approval shall not relieve the Engineer of the responsibility for details of design, construction, proper fitting, capacity performance, etc.
 CHECKED: J.D. REVIEWED: *JB.*

APPROVED BY
 Miami-Dade County
 Department of Regulatory and Economic Resources
 Environmental Plan Review
 Water Mains Only
 DATE: 03-15-2017
 2017-WAT-EXT-00058
 For the Director: *F. Cuellegan*
 Note: This Approval is not intended to cover structural design



SHEET INDEX

P-1	COVER
P-2	GENERAL NOTES
P-3	GENERAL PLAN
P-4	GENERAL PLAN
P-5	TOPOGRAPHIC SURVEY
P-6	TOPOGRAPHIC SURVEY
P-7	TOPOGRAPHIC SURVEY
P-8	PLAN AND PROFILE
P-9	PLAN AND PROFILE
P-10	PLAN AND PROFILE
P-11	PLAN AND PROFILE
P-12	PLAN AND PROFILE
P-13	PLAN AND PROFILE
P-14	PLAN AND PROFILE
P-15	PLAN AND PROFILE
P-16	PLAN AND PROFILE
P-17	PLAN AND PROFILE



State of Florida - License No. 62714
 8550 NW 33rd St #202 Doral, FL
 A.D.A Engineering Inc, (305) 551-4608
 Date: 2/27/2017



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

LOCATION PLANS
 CITY OF MIAMI
 A PORTION OF SEC. 28 - TWP. 54 S. - RGE. 41 E.
 A PORTION OF SEC. 20 - TWP. 54 S. - RGE. 41 E.
 N.T.S.

CITY OF MIAMI PROJECT MANAGER: JOHN DE PAZOS

MIAMI-DADE COUNTY WASD PROJECT MANAGER: JOSE A. DIAZ

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DWG. HISTORY	DATE	BY	DESCRIPTION	BY
REVIEW 100%	2/27/2017	W.R.		
REVIEW 90%	11/22/2016	W.R.		
REVIEW 60%	9/23/2016	W.R.	APPROVED BY V.F.C.	APPROVED BY C.B.
REVIEW 30%	7/13/2016	W.R.	SR. PROG. MGR.	ENG. REVIEW
			DATE: 2/27/2017	SHEET P-1 OF 17
			FILE NAME: P-1.DWG	DWG. No. W-21636-B

GENERAL NOTES

- THE FOLLOWING UTILITY COMPANIES SHOULD BE NOTIFIED 48 HOURS IN ADVANCE OF EXCAVATION IN AREA:
 - FLORIDA POWER & LIGHT-DATE
 - COMCAST CABLE
 - AT&T/ DISTRIBUTION
 - DADE COUNTY PUBLIC WORKS AND TRAFFIC
 - MIAMI-DADE WATER & SEWER
- ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM, 1929 ADJUST.
- VALVES AT INTERSECTIONS, BRANCH MAINS OR STUB OUTS SHALL BE RESTRAINED TO THE ADJACENT FITTING UNLESS OTHERWISE NOTED.
- CUTTING AND PLUGGING OF EXISTING MAINS SHALL BE ACCOMPLISHED BY MECHANICALLY RESTRAINING THE PLUG OR CAP. SUFFICIENT LENGTH OF PIPE SHALL BE PROVIDED TO INSURE THE STABILITY OF THE INSTALLATION.
- STATIONING SHOWN IS ALONG THE BASELINE OF SURVEY. GRADING SHOWN IS ALONG THE PROPOSED PIPE ALIGNMENT.
- EXACT LOCATIONS OF SERVICES TO BE DETERMINED IN THE FIELD.
- FOR REQUIREMENTS FOR MECHANICAL THRUST RESTRAINT, SEE STANDARD DETAIL GS 2.0
- THERE MAY BE OTHER EXISTING UTILITIES IN THE AREA WHICH ARE NOT SHOWN ON THE PLANS, DUE TO FAILURE OF THESE UTILITIES TO RESPOND TO OUR REQUEST FOR INFORMATION.
- IF EVIDENCE OF POTENTIAL CONTAMINATION IS DETECTED DURING EXCAVATION, STOP EXCAVATION WORK AND NOTIFY WASH HAZARDOUS MATERIALS MANAGEMENT SECTION AT (786) 552-8400 AND THE CONSTRUCTION CONTRACTS MANAGEMENT DIVISION AT (786) 268-5191. EVIDENCE OF POTENTIAL CONTAMINATION MAY INCLUDE ANY OF THE FOLLOWING: 1. ODOR 2. SOLID WASTE DEBRIS 3. SHEEN ON THE GROUNDWATER 4. STAINED OR SATURATED SOIL (SOIL THAT CONTAINS PRODUCT THAT DRAINS WHEN IT IS HANDLED OR CREATES STREAKS ON EXCAVATION TOOLS) OR 5. FREE FLOATING PRODUCT ON THE GROUNDWATER (OIL, DIESEL, GASOLINE, ETC.). MATERIAL THAT HAS ODOR, IS STAINED OR IS SATURATED MUST BE SEGREGATED ON AN IMPERMEABLE SURFACE FOR APPROPRIATE FUTURE DISPOSAL.
- ALL PIPE AND FITTINGS INSTALLED UNDER THIS PROJECT MUST BE COLOR CODED WITH BLUE PAINT AS STATED IN THE FLORIDA ADMINISTRATIVE CODE, SUBPARAGRAPH 62-555.320(21)(B)3 AND AS REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. IF PAINT IS APPLIED DURING INSTALLATION OF THE PIPE, THE PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ON THE TOP OF THE PIPE. FOR PIPES WITH AN INTERNAL DIAMETER OF 24-INCHES OR GREATER, PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.
- USE CAUTION WHEN EXCAVATING AROUND UTILITIES PER SPECIFICATION SECTION 6.00.3
- PAVEMENT RESTORATION TO BE DONE IN ACCORDANCE WITH CITY OF MIAMI PUBLIC WORKS DEPARTMENT REQUIREMENTS UNLESS OTHERWISE NOTED.
- THE ENGINEER-OF-RECORD IS IN RESPONSIBLE CHARGE FOR THE DESIGN PART OF THIS PROJECT ONLY. THE DEPARTMENT, THROUGH THE CONSTRUCTION CONTRACTS MANAGEMENT DIVISION, WILL ASSIGN A FLORIDA LICENSED PROFESSIONAL ENGINEER TO TAKE RESPONSIBLE CHARGE OF INSPECTING THE CONSTRUCTION OF THIS PROJECT AND TO DETERMINE, IN GENERAL, IF THE CONSTRUCTION PROCEEDS IN COMPLIANCE WITH THE CONSTRUCTION PERMITS AND TO SUBMIT COMPLETE RECORD DRAWINGS AND CERTIFICATION OF CONSTRUCTION COMPLETION TO THE PERMITTING AGENCIES, AND TO OBTAIN WRITTEN APPROVAL OR CLEARANCE BEFORE PLACING THE MAINS IN SERVICE.
- LOCATION OF EXISTING FACILITIES AS SHOWN ON CONSTRUCTION DRAWINGS ARE FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY OF THE FACILITIES SHOWN OR NOT SHOWN. CONTRACTOR IS TO FIELD VERIFY THE ELEVATION, TYPE OF PIPE AND LOCATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION. IF AN EXISTING FACILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION UPON EXCAVATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER/ENGINEER-OF-RECORD THROUGH THE ASSIGNED MDWASD CONSTRUCTION PROJECT MANAGER SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE SAID CONFLICT. CONTRACTOR TO NOTIFY SUNSHINE STATE ONE CALL OF FLORIDA, INC. BY CALLING 811 AT LEAST 48 HOURS PRIOR TO EXCAVATING.
- MILLING AND RESURFACING PAVEMENT RESTORATION WILL BE AS SHOWN ON PLANS.
- IN AREAS WHERE POLLUTED GROUND WATER WILL OR MAY BE DRAWN INTO THE DEWATERING SYSTEM AND THE MDWASD HAS GRANTED PERMISSION TO INSTALL THE SYSTEM COMPONENTS VIA THE "ALTERNATE METHOD OF CONSTRUCTION", I.E. IN THE WET, AND THE CONTRACTOR ELECTS TO PERFORM DEWATERING AS PART OF THE WORK, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROVIDE RELATED PROFESSIONAL SERVICES, PREPARE APPLICATION DOCUMENTS, SUBMIT AND OBTAIN ANY AND ALL REQUIRED DEWATERING/CONTAMINATION PERMIT APPROVALS (INCLUDING ANY ANCILLARY PERMITS THAT MAY BE REQUIRED, I.E. FROM R.E.R. WATER CONTROL OR POLLUTION CONTROL) PRIOR TO COMMENCING THE WORK AND AT NO ADDITIONAL CONTRACT TIME OR COST TO THE DEPARTMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES CONTAINED WITHIN THE CONTRACT SPECIFICATIONS OR AS REQUIRED BY THE MUNICIPALITY OR ANY OTHER REGULATORY AUTHORITY. THE CONTRACTOR SHALL ALSO PROVIDE ANY ADDITIONAL EROSION CONTROL MEASURES (E.G. HYDROSEEDING MULCHING OF STRAW, SAND BAGGING, DIVERSION DITCHES, ETC) DICTATED BY FIELD CONDITIONS TO PREVENT EROSION OR THE INTRUSION OF DIRT, MUD, OR DEBRIS INTO EXISTING PUBLIC STREETS, WATERWAYS, OR ONTO ADJACENT PROPERTIES DURING ANY PHASE OF CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NPDES GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PERMIT (GCP) AND A NOTICE OF INTENT (NOI) TO USE SAID GENERIC PERMIT AS PROVIDED IN SUBSECTION 62-621.300(4), F.A.C. PURSUANT TO THE STATE'S FEDERALLY APPROVED NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORMWATER REGULATORY PROGRAM (NPDES). THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROVIDE RELATED PROFESSIONAL SERVICES, PREPARE APPLICATION DOCUMENTS AND OBTAIN ALL REQUIRED APPROVALS PRIOR TO COMMENCEMENT OF THE WORK AND AT NO ADDITIONAL CONTRACT TIME OR COST TO THE DEPARTMENT.
- PROJECT SPECIFICATIONS SHALL CONFORM TO THE MD-WASD DESIGN AND CONSTRUCTION STANDARD SPECIFICATIONS AND DETAILS.
- LOCATION AND SIZE OF EXISTING WATER METER FOR EACH PROPERTY TO BE DETERMINED PRIOR TO INSTALLATION OF PROPOSED WATER SERVICE.

THE FOLLOWING ARE REQUIREMENTS PER DEPARTMENT OF HEALTH

WATER MAIN HORIZONTAL SEPARATIONS

SEPARATIONS SHALL BE MEASURED OUTSIDE EDGE TO OUTSIDE EDGE.

BETWEEN WATER MAINS AND, STORM SEWERS, STORMWATER FORCE MAINS, OR RECLAIMED WATER LINES, SHALL BE 3 FT. MINIMUM.

BETWEEN WATER MAINS AND VACUUM TYPE SEWER PREFERABLY 10 FT. AND AT LEAST 3 FT. MINIMUM.

GRAVITY OR PRESSURE SANITARY SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER PREFERABLY 10 FT. AND AT LEAST 6 FT.*

*GRAVITY SEWER ONLY MAY BE REDUCED TO 3 FT. WHERE BOTTOM OF WATER MAIN IS AT LEAST 6 INCHES ABOVE TOP OF SEWER.

10 FT. TO ANY PART OF ON-SITE SEWER TREATMENT OR DISPOSAL SYSTEM.

WATER MAIN VERTICAL SEPARATIONS

SEPARATIONS BETWEEN WATER MAINS AND GRAVITY SEWER, VACUUM TYPE SEWER OR STORM SEWERS, TO BE PREFERABLY 12 INCHES OR AT LEAST 6 INCHES ABOVE OR AT LEAST 12 INCHES BELOW*.

PRESSURE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR RECLAIMED WATER, AT LEAST 12 INCHES ABOVE OR BELOW.*

* CENTER 1-FULL LENGTH OF WATER MAIN PIPE AT CROSSINGS; ALTERNATIVELY ARRANGE PIPES SO JOINTS ARE AT LEAST 3 FEET FROM JOINTS IN VACUUM, STORM OR STORM FORCE MAINS, AT LEAST 6 FEET FROM JOINTS IN GRAVITY OR PRESSURE SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER.

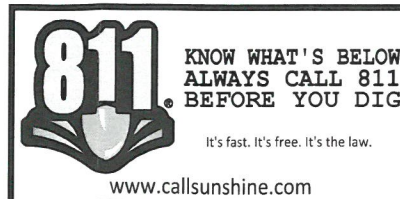
NOTE: IN ALL CASES, INCLUDING EXCEPTIONS, REFER TO F.A.C. 62-555.314

MIAMI-DADE WATER AND SEWER DEPARTMENT DESIGN AND CONSTRUCTION STANDARD DETAILS

FOR	SEE DETAIL	SHEET
TYPICAL TIE-ROD DETAILS	GS 1.0	1 OF 1
REINFORCED CONC. SLAB FOR GROUND COVER LESS THAN 2.5'	GS 1.2	1 OF 1
WATER AND GRAVITY SEWER MAIN CROSSINGS	GS 1.5	1 OF 1
TAPPING SLEEVE AND VALVE INSTALLATION	GS 1.8	1 OF 1
TYPICAL TRENCH BACKFILL FOR D.I. WATER AND FORCE MAINS	GS 1.9	1 OF 1
TYPICAL GATE VALVE (SMALLER THAN 16")	WS 1.0	1 OF 1
AIR RELEASE VALVE	WS 1.60	1 OF 1
TYPICAL FLUSHING VALVE OUTLET	WS 1.61	1 OF 1
SINGLE METER BOX INSTALLATION	WS 2.10	1, 2 & 3 OF 3
No. 2 C.I. VALVE BOX AND LID	WS 3.10	1 OF 1
No. 3 C.I. VALVE BOX AND LID	WS 3.11	1 & 2 OF 2
TYPICAL CONNECTION TO EXIST. MAIN	WS 4.12	2 OF 2
TYPICAL FIRE HYDRANT INSTALLATION WITH GUARD POSTS	WS 4.50	1 OF 2
PAVEMENT RESTORATION TYPE M	A 4.0	1 OF 1
POLYETHYLENE ENCASUREMENT FOR DUCTILE IRON PIPE	A 9.0	1 OF 1
ABBREVIATIONS FOR DEPARTMENT'S PROJECTS	A 10.0	1, 2 & 3 OF 3

NOTES:

- THE ABOVE LIST SHALL NOT BE CONSIDERED AS NECESSARILY COMPLETE, NOR SHALL THE STANDARD DETAILS WHICH MAY BE INCLUDED ELSEWHERE HEREIN BE CONSIDERED AS FORMING A COMPLETE LISTING OF ALL STANDARD DETAILS WHICH MAY APPLY TO THIS PROJECT.
- ALL STANDARD DETAILS ARE INCORPORATED IN THE ABOVE LIST BY REFERENCE AND ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE MDWASD STANDARD DETAILS.



S.S.O.C.O.F. DESIGN TICKET No. 141608569
DATE: 05-20-2016

LEGEND

- W.M. --- Exist. Water Main
- S.S. --- Exist. Storm Sewer
- San. --- Exist. Sanitary Sewer
- F.M. --- Exist. Force Main
- G. --- Exist. Gas
- C --- Center line
- B --- Base line
- C & B --- Center line and Base line
- M --- Monument line
- S --- Section line
- R/W --- Right of way line
- P --- Property line
- TEL --- Exist. Telephone
- U/G --- Exist. Electric underground
- CATV --- Exist. Cable underground
- TRAF --- Exist. Traffic loop
- REQ'D --- Required
- O/S --- Offset
- D.I. --- Ductile Iron
- REST. J. --- Restrained Joint
- 3 --- Exist. Guy Wire
- Street Light Pole --- Exist. Street Light Pole
- Utility Conc. Pole --- Exist. Utility Conc. Pole
- Utility Pole --- Exist. Utility Pole
- Flood Light --- Exist. Flood Light
- Traffic Light Pole --- Exist. Traffic Light Pole
- Pedestrian Crossing Light --- Exist. Pedestrian Crossing Light
- Electric Box --- Exist. Electric Box
- Street Light Box --- Exist. Street Light Box
- Telephone Box --- Exist. Telephone Box
- Traffic Signal Box --- Exist. Traffic Signal Box
- Cable TV Box --- Exist. Cable TV Box
- C.B. --- Exist. C.B.
- Electric MH --- Exist. Electric MH
- Storm MH --- Exist. Storm MH
- Sanitary MH --- Exist. Sanitary MH
- Telephone MH --- Exist. Telephone MH
- Water MH --- Exist. Water MH
- Well --- Exist. Well
- Sprinkler --- Exist. Sprinkler
- Fire Hydrant --- Exist. Fire Hydrant
- Valve --- Exist. Valve
- Core Boring --- Core Boring
- Sign --- Exist. Sign
- Single Water Meter --- Exist. Single Water Meter
- Prop. Single Water Meter --- Prop. Single Water Meter
- Limits of milling and resurfacing by WASD Contract
- Limits of milling and resurfacing by City of Miami Contract
- Limits of trench and pavement restoration by City of Miami Contract



WATER & SEWER DEPARTMENT

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FURNISH & INSTALL 8-INCH D.I. WATER MAIN WITHIN ENTRADA NEIGHBORHOOD AND LOQUAT AVE. FROM S.W. 37th AVE. TO LINDEN LN. PCTS No. 14590, ER No. W017003 CITY OF MIAMI J.P.A. No. B30836

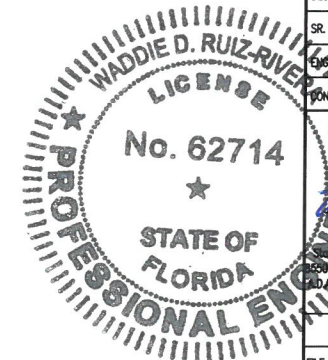
GENERAL NOTES

REVISIONS

No.	DESCRIPTION	DATE	BY

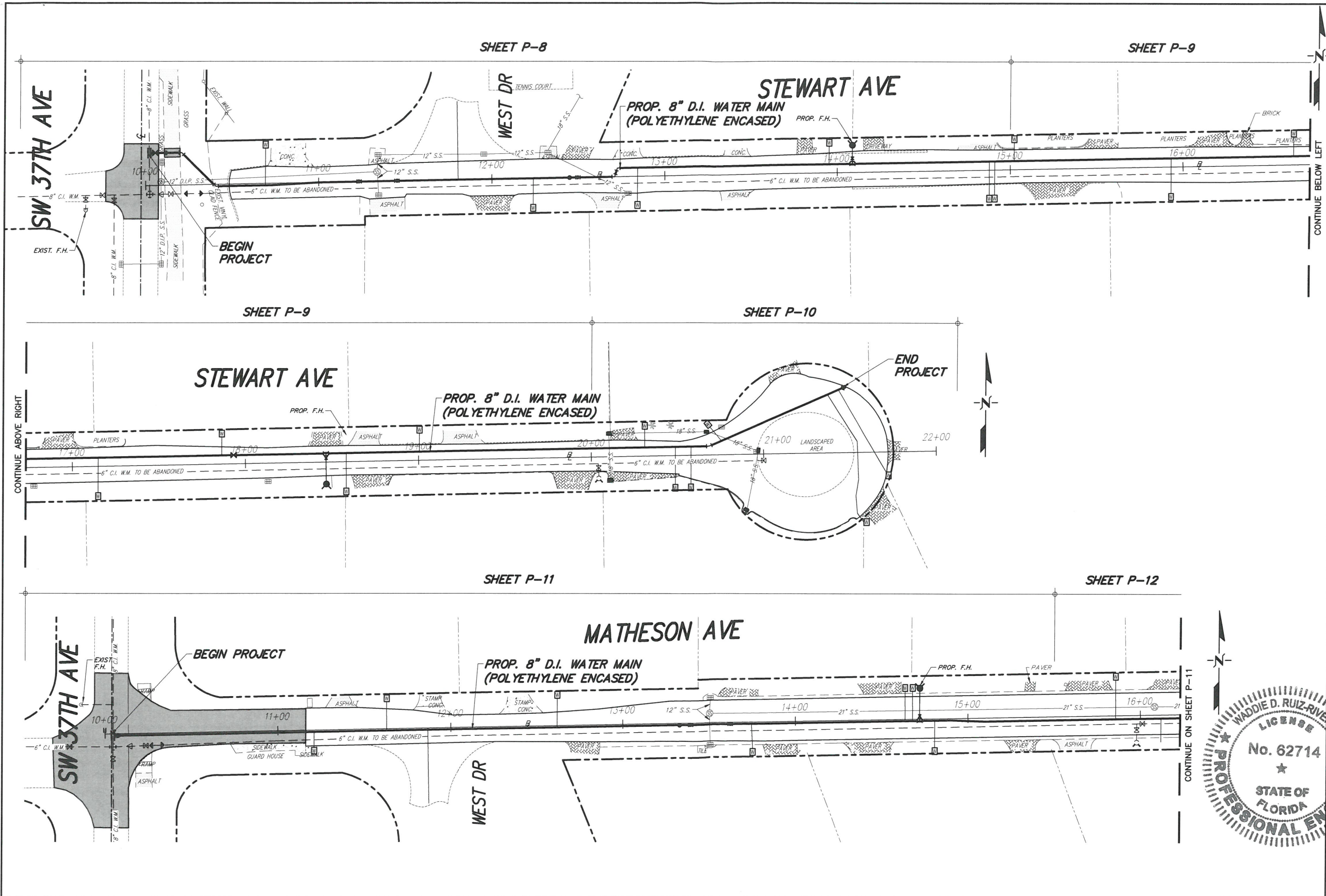
APPROVALS

DESIGNED: W.R.	DRAWN: D.W.
SR. PROG. MGR.: V.F.C.	
ENG. REVIEW: C.B.	
CONST. REVIEW: M.G.	



Waddie D. Ruiz, P.E.
Civil Engineer
Florida - License No. 62714
2500 NW 33rd St., #202 Doral, FL 33122
A.D.A. Engineering, Inc. (305) 551-1608
Date: _____

PROJECT No. : B-30836
FILE NAME: P-9-GNOTES.DWG
DATE: FEB. 27, 17 SCALE: HOR. 1"=40'
SHEET **P-2 OF 17**
DWG. No. **W-21637-B**



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WATER & SEWER DEPARTMENT
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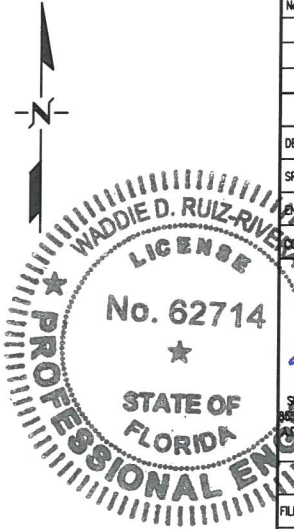
GENERAL PLAN
 FURNISH & INSTALL 8-INCH D.I. WATER MAIN WITHIN ENTRADA NEIGHBORHOOD AND LOQUAT AVE. FROM S.W. 37TH AVE. TO LINDEN LN. PCTS No. 14590, ER No. W017003 CITY OF MIAMI J.P.A. No. B30836

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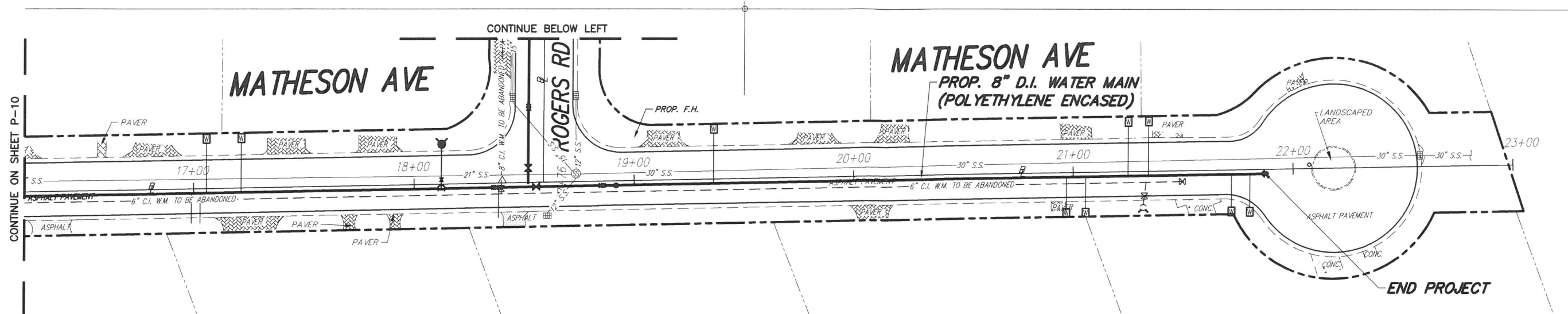
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SR. PROG. MGR.: V.F.C.	
ENG. REVIEW: C.B.	
CONST. REVIEW: M.G.	



PROJECT No. : B-30836
 FILE NAME: P-10-11-GNL PLANDWG
 DATE: FEB. 17, 2017 SCALE: HOR. 1"=50'
 SHEET **P-3 OF 17**
 DWG. No. **W-21638-B**

SHEET P-12

SHEET P-13



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GENERAL PLAN

REVISIONS

No.	DESCRIPTION	DATE	BY

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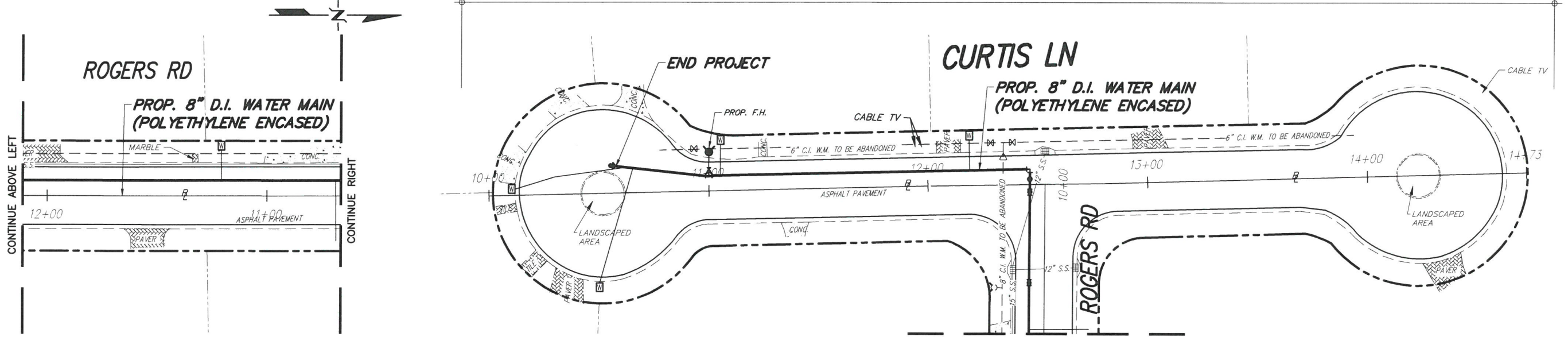
DESIGNED: W.R.	DRAWN: D.W.
SR. PROG. MGR.: V.F.C.	
ENG. REVIEW: C.B.	
CONST. REVIEW: M.G.	

WADDIE D. RUIZ
 LICENSE
 No. 62714
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

SHEET **P-4 OF 17**
 DWG. No. **W-21639-B**

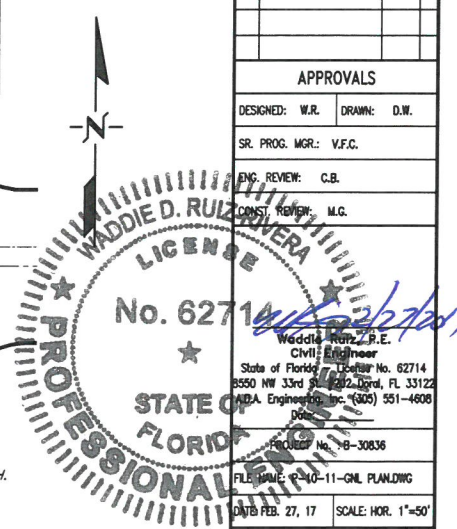
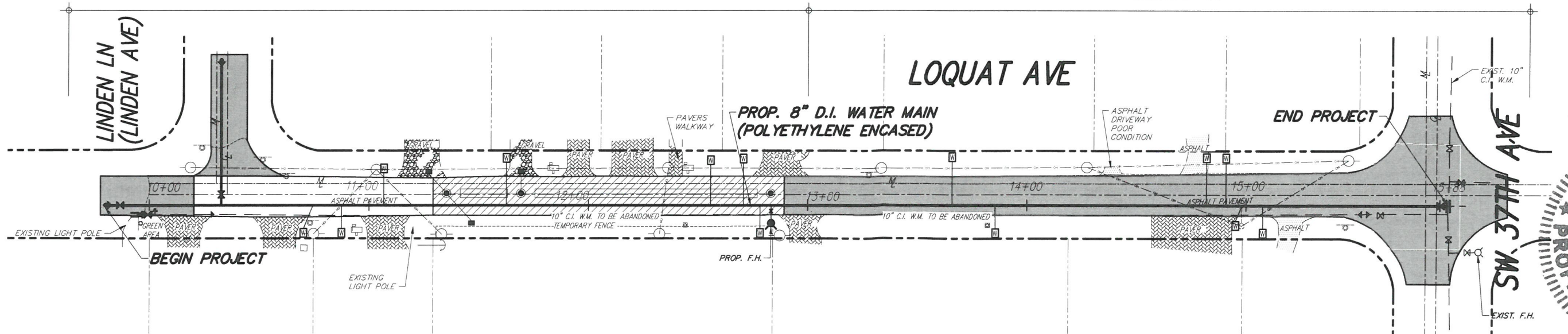
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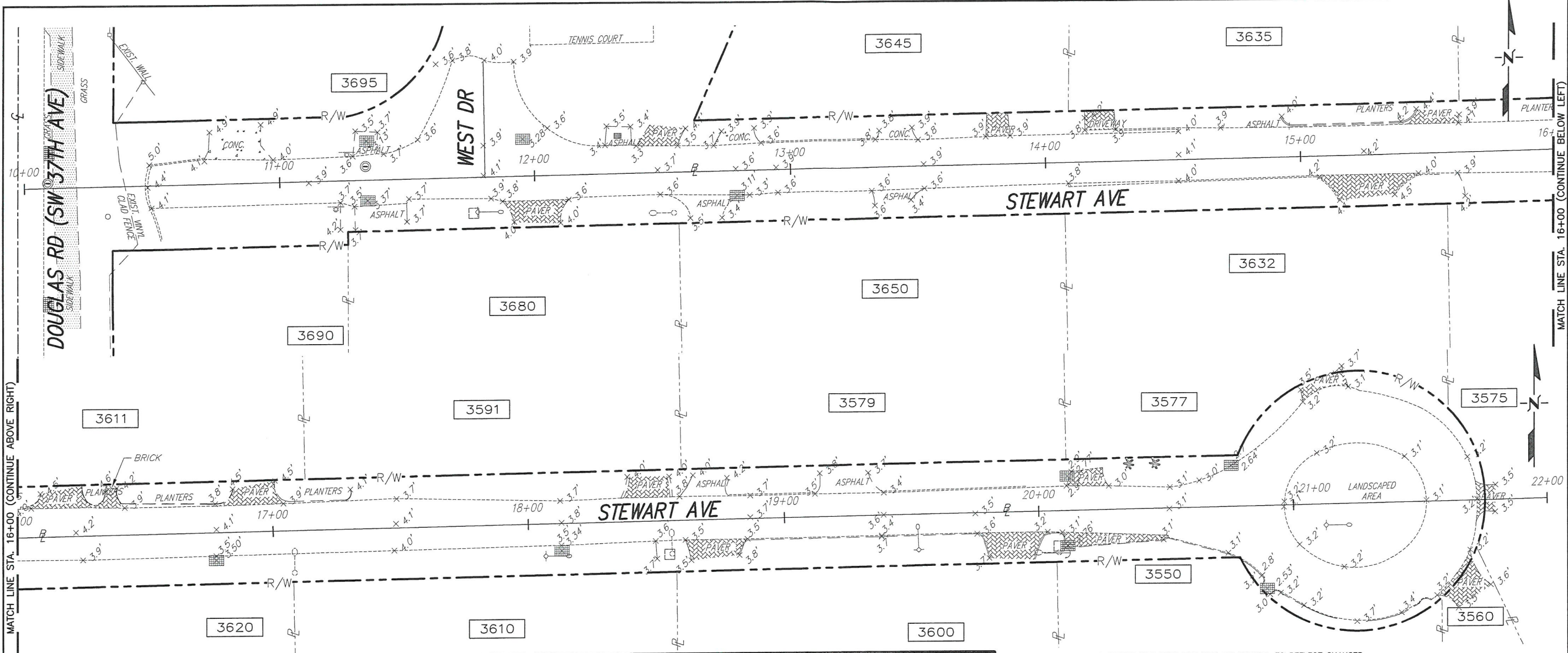
SHEET P-15



SHEET P-16

SHEET P-17





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ER Brownell & Associates, Inc.
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 PHONE: (305) 860-3866
 FAX: (305) 860-3870
 WWW.ERBROWNELL.COM

FURNISH & INSTALL 8-INCH D.I. WATER MAIN WITHIN ENTRADA NEIGHBORHOOD AND LOQUAT AVE. FROM S.W. 37th AVE. TO LINDEN LN. PCTS No. 14590, ER No. W017003 CITY OF MIAMI J.P.A. No. B308356 TOPOGRAPHIC SURVEY

MIAMI-DADE COUNTY PUBLIC WORKS DEPT. BENCHMARK USED

BENCH MARK	DESCRIPTION	ELEV.
HERNDON	US C&G BRASS DISC IN CONCRETE WALL - SW 37TH AVENUE - 125' EAST OF THE CENTERLINE - WEST DRIVE - 54' EAST OF THE CENTERLINE	4.26
G-51	PK NAIL AND ALUMINUM WASHER IN CONCRETE SIDEWALK - MAIN HWY - 37' SE OF THE CENTERLINE - SW 37TH AVENUE - 54' EAST OF THE CENTERLINE	18.17

ELEVATIONS AS SHOWN HEREON REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929).

SURVEYOR'S NOTES:

- BEARINGS ARE BASED ON AN ASSUMED MERIDIAN, WHERE THE ALIGNMENT BETWEEN CONTROL POINT #1 AND CONTROL POINT #2, LOCATED ALONG MATHESON AVENUE, AS SHOWN ON HIS SPECIFIC PURPOSE SURVEY, BEARS N88°53'27"E. BASE LINE LOCATION AS SHOWN 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.
- 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, STEWART 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 STEWART AVENUE, ALL THE LANDS LYING IN THE SW 1/4 OF SECTION 28, TOWNSHIP 54 SOUTH, RANGE 41 EAST, IN MIAMI-DADE COUNTY, FLORIDA.
- 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)(B)15.A, OF A CLOSURE IN FEET OF PLUS OR MINUS 0.05 FEET TIMES THE SQUARE ROOT OF THE DISTANCE IN MILES.

4. THIS SKETCH OF SPECIFIC PURPOSE SURVEY IS BASED ON: (I) RECOVERED MONUMENTATION, (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 KORTH ESTATES RECORDED IN PLAT BOOK 148, AT PAGE 27 AND (VI) THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT MUNICIPAL ATLAS SHEET NO. 48L. 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.

5. 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. BASELINE WAS PROVIDED WITH TRAVERSE POINTS ALONG THE PROJECT AS PER CLIENT REQUEST. THE SURVEYOR DID NOT RECOVER THE RIGHT OF WAY LOCATION.

6. THE SURVEYED STREETS LIES WITHIN FOUR DIFFERENT FLOOD AREAS. THE MOST OF THE SURVEYED AREA 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. 12086C459L AND MAP NUMBER 12086C0478L, FOR THE COMMUNITY NO. 120650 (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.

7. 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.

* THE SURVEY DATA AS SHOWN HAS BEEN UPDATED BY OTHERS, TO REFLECT CHANGES SUBSEQUENT TO THE SURVEY PREPARED BY ER BROWNELL & ASSOCIATES, INC. (ERB), UNDER SKETCH NO. M-2623, LAST REVISED ON 6/15/15 (UPDATE NOT FIELD VERIFIED BY ERB).

SURVEY LEGEND

DIV - DIVISION	PSM - PROFESSIONAL SURVEYOR & MAPPER	H.I. - HEIGHT OF INSTRUMENT
W.M. - WATER MAIN	N&D - NAIL & DISC	ELEV - ELEVATION
ST. - STREET	RCD - RECORD	TP - TURNING POINT
PL - PLACE	MEAS - MEASURE	COR - CORNER
CT. - COURT	D.H. - DRILL HOLE	ASPH - ASPHALT
AVE - AVENUE	SWK - SIDEWALK	DIA. - DIAMETER
NGVD - NATIONAL GEODETIC VERTICAL DATUM	P.C. - POINT OF CURVE	BK/SWK - BACK OF SIDEWALK
REF - REFERENCE	P.T. - POINT OF TANGENCY	EP - EDGE OF PAVEMENT
WP - WATER PRELIMINARY	G.W. Anch. - GUY WIRE ANCHOR	W.V. - WATER VALVE
P - PAGE	U.E. - UTILITY EASEMENT	P.I. - POINT OF INTERSECTION
PP - PAGES	SA - SANITARY SEWER	FIRE HYD. - FIRE HYDRANT
DATA PT. - DATA POINT	PL - PROPERTY LINE	W/METER - WATER METER
STA. - STATION	R/W - RIGHT OF WAY	UTIL - UTILITY
CL - CENTER LINE	R - RADIUS	TRAF. SIG. - TRAFFIC SIGNAL
SL - SECTION LINE	Δ - DELTA ANGLE	C&G - CURB AND GUTTER
M - MONUMENT LINE	L - ARC LENGTH	CONT'D. - CONTINUED
BL - BASE LINE	T - TANGENT	CH. LINK - CHAIN LINK
FD - FOUND	CONC. - CONCRETE	TELE - TELEPHONE
I.P. - IRON PIPE	DRV. - DRIVE	MH - MANHOLE
O/S - OFFSET	WASD - WATER & SEWER DEPARTMENT	EQUIP - EQUIPMENT
LT. - LEFT	RP - REFERENCE POINT	SPK - SPRINKLER
RT. - RIGHT	TBM - TEMPORARY BENCH MARK	S.S. - STORM SEWER

REVISIONS

No.	DESCRIPTION	DATE	BY

APPROVALS

DESIGNED: _____ DRAWN: LD.

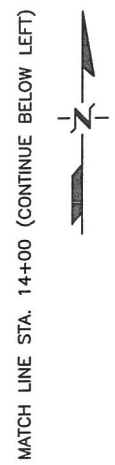
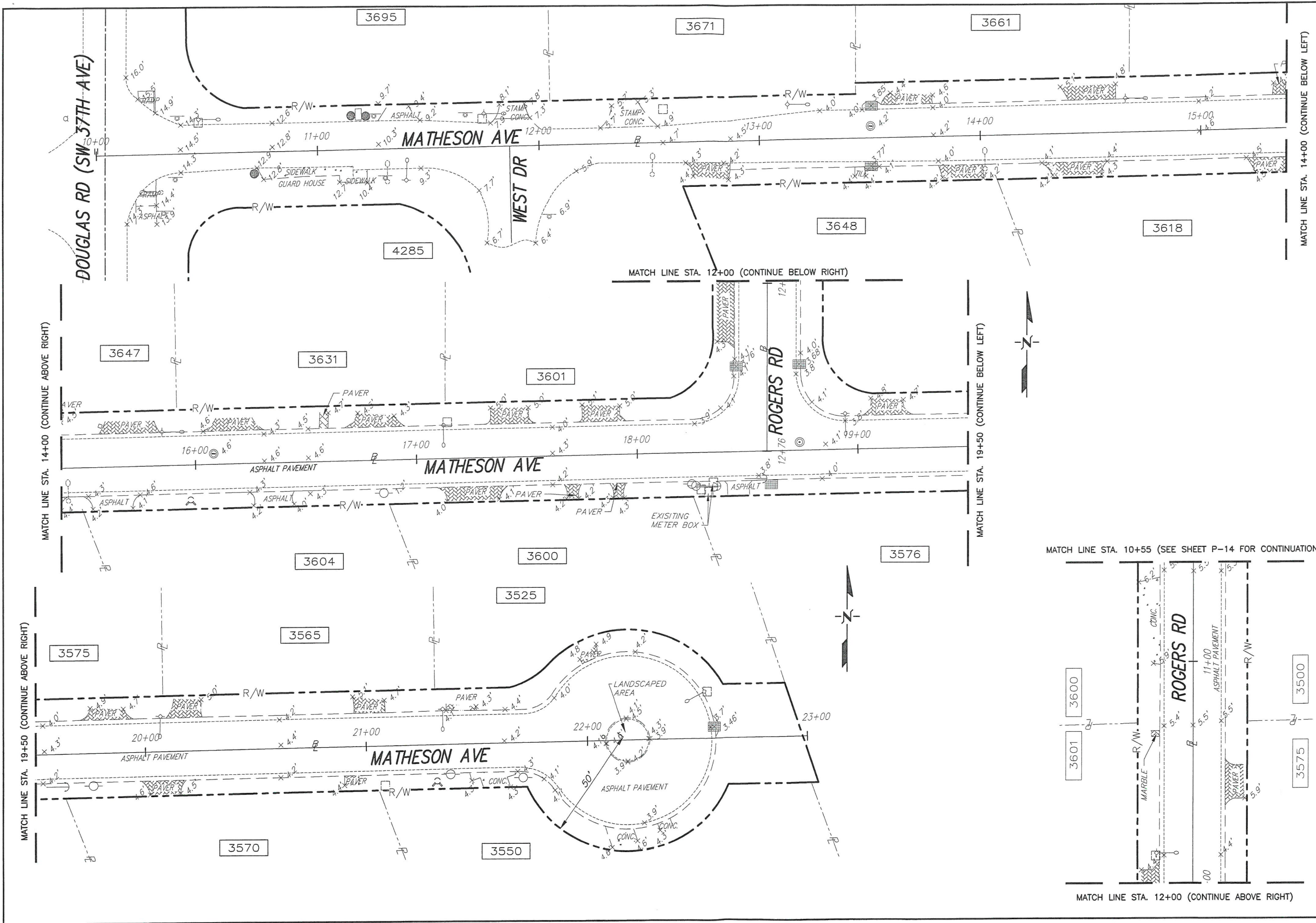
SR. PROC. MGR.: V.F.C.

ENG. REVIEW: C.B.

CONST. REVIEW: M.G.

Thomas Brownell
 THOMAS BROWNELL
 SURVEYOR AND MAPPER
 State of Florida - License No. 2891
 2434 SW 28th Lane, FL 33133
 E.R. Brownell & Associates, Inc.
 (305) 860-3866
 Date: 4/15/15
 PROJECT No.: B-308356

FILE NAME: P-12-14-SURVEY.DWG
 DATE: FEB. 23, 17 SCALE: HOR. 1"=40'
 SHEET **P-5 OF 17**
 DWG. No. **W-21640-B**



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 MIAMI, FL 33134-7109
 786-268-5310

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 WWW.ERBROWNELLCOM

FURNISH & INSTALL 8-INCH D.I. WATER MAIN WITHIN ENTRADA NEIGHBORHOOD AND LOQUAT AVE. FROM S.W. 37th AVE. TO LINDEN LN. PCTS No. 14590, ER No. W017003 CITY OF MIAMI J.P.A. No. B30836

TOPOGRAPHIC SURVEY

REVISIONS		
No.	DESCRIPTION	DATE BY

APPROVALS

DESIGNED: _____ DRAWN: L.D.
 SR. PROG. MGR.: V.F.C.
 ENG. REVIEW: C.B.
 CONST. REVIEW: M.G.

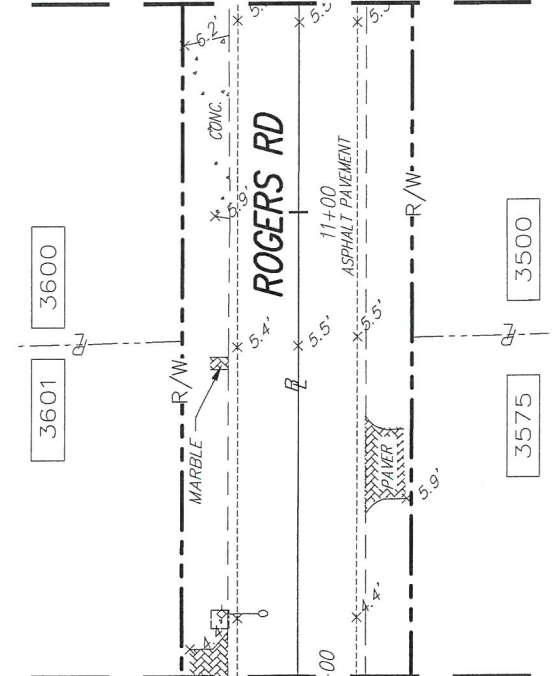
Thomas Brownell
THOMAS BROWNELL
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 State of Florida - License No. 2891
 2434 SW 28th Lane, FL 33133
 E.R. Brownell & Associates, Inc.
 (305) 860-8866
 Date: 2/15/17

PROJECT No.: B-30836

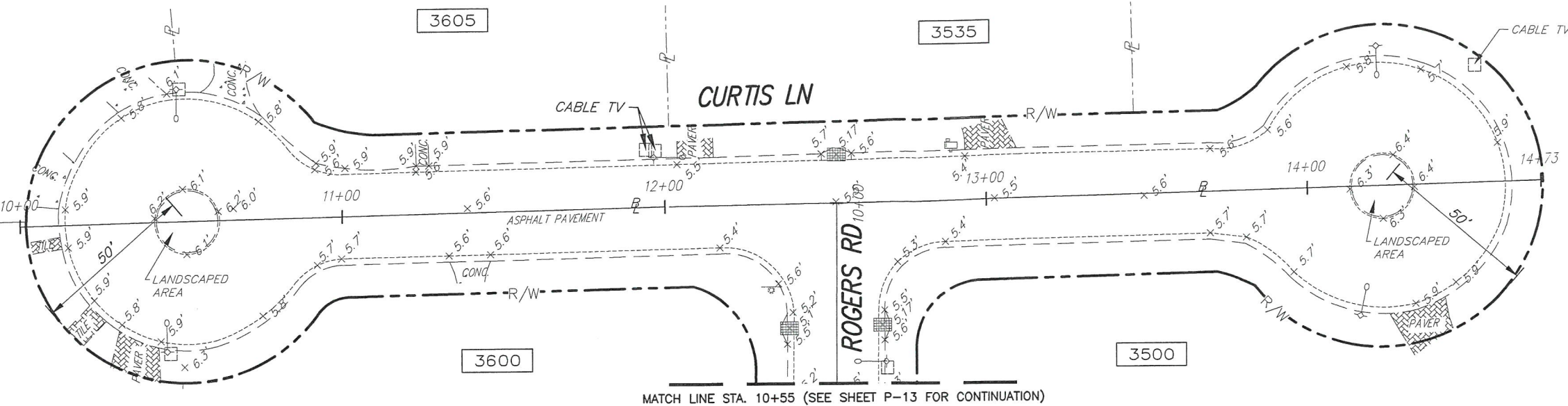
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SHEET **P-6 OF 17**
 DWG. No. **W-21641-B**

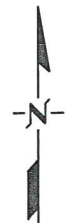
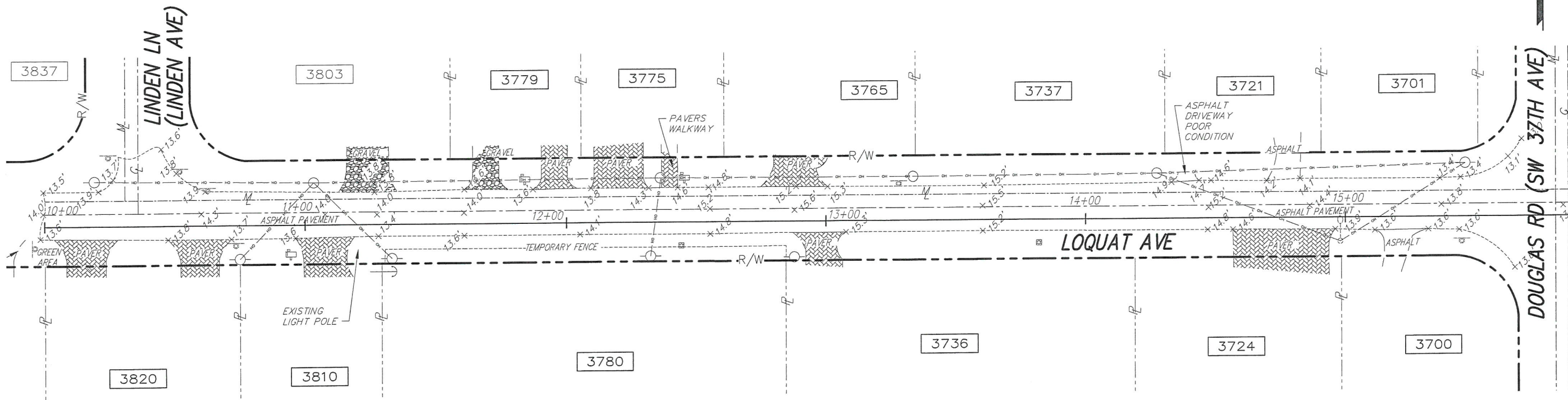
MATCH LINE STA. 10+55 (SEE SHEET P-14 FOR CONTINUATION)



MATCH LINE STA. 12+00 (CONTINUE ABOVE RIGHT)



MATCH LINE STA. 10+55 (SEE SHEET P-13 FOR CONTINUATION)



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REVISIONS			
No.	DESCRIPTION	DATE	BY

APPROVALS	
DESIGNED:	DRAWN: L.D.
SR. PROG. MGR.: V.F.C.	
ENG. REVIEW: C.B.	
CONST. REVIEW: M.G.	

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 THOMAS BROWNELL
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 (305) 860-3866
 Date: 2/15/17

PROJECT No. B-30836
 FILE NAME: P-12-14-SURVEY.DWG
 DATE: FEB. 23, 17 SCALE: HOR. 1"=40'
 SHEET **P-7 OF 17**
 DWG. No. **W-21642-B**



8550 N.W. 33RD STREET - SUITE 202
 DORAL, FLORIDA 33122
 PHONE (305) 551-4658
 FAX (305) 551-8977
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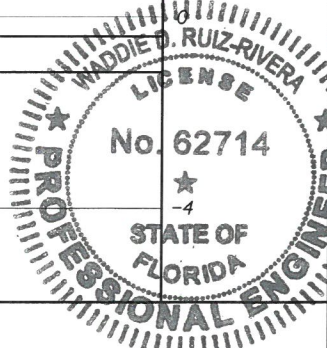
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REVISIONS

No.	DESCRIPTION	DATE	BY

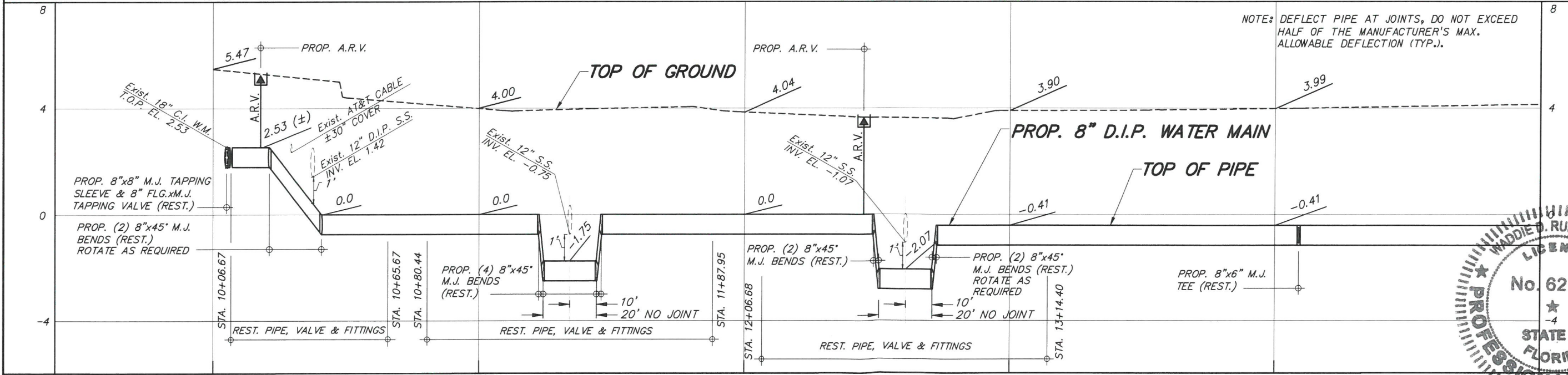
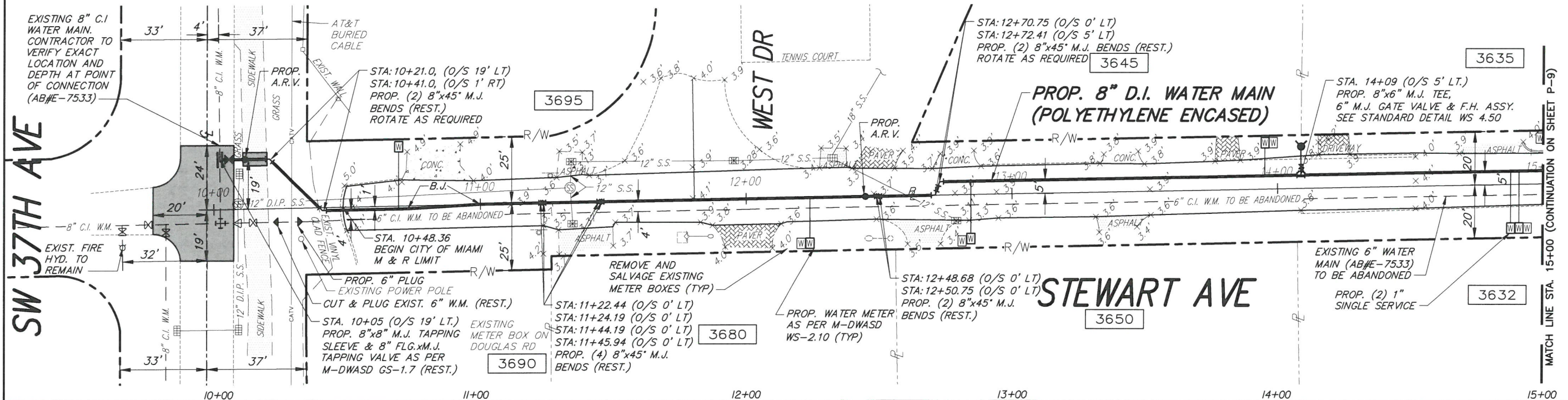
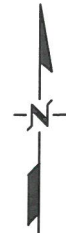
APPROVALS

DESIGNED: W.R.	DRAWN: D.W.
SR. PROG. MGR.: V.F.C.	
ENG. REVIEW: C.B.	
CONST. REVIEW: M.G.	



Waddie Ruiz, P.E.
 Civil Engineer
 License No. 62714
 8550 NW 33rd St., #202 Doral, FL 33122
 A.D.A. Engineering, Inc. (305) 551-4608
 Date: _____

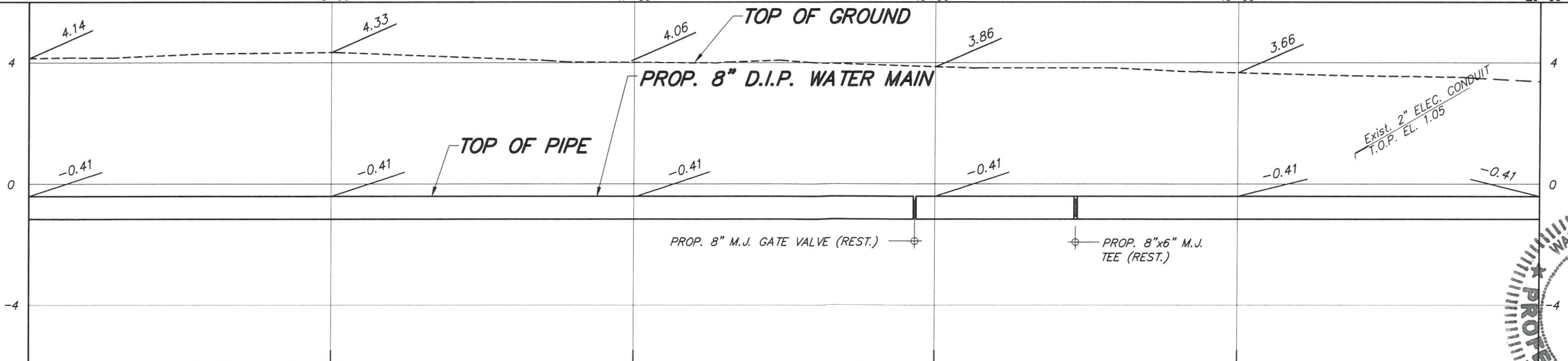
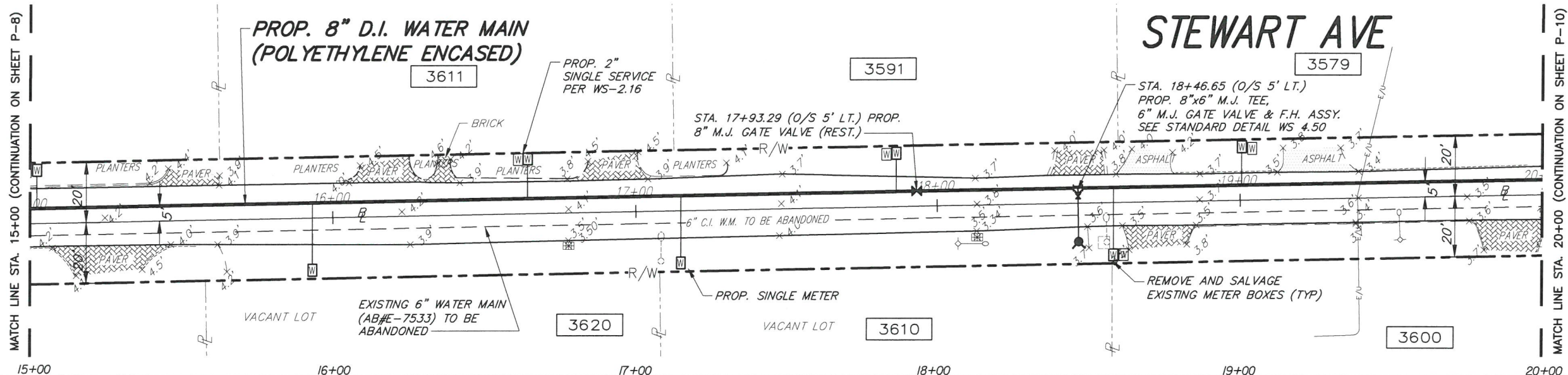
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 FILE NAME: P-15-24-PLPRF.DWG
 DATE: FEB. 27, 17 SCALE: HOR. 1"=40'
 VER. 1"=4'
 SHEET **P-8 OF 17**
 DWG. No. **W-21643-B**



SW 37TH AVE

STEWART AVE

MATCH LINE STA. 15+00 (CONTINUATION ON SHEET P-9)



FURNISH & INSTALL 8-INCH D.I. WATER MAIN WITHIN ENTRADA NEIGHBORHOOD AND LOQUAT AVE. FROM S.W. 37th AVE. TO LINDEN LN. PCTS No. 14590, ER No. W017003 CITY OF MIAMI J.P.A. No. B30836

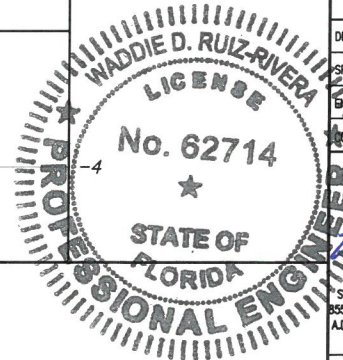
PLAN AND PROFILE

REVISIONS

No.	DESCRIPTION	DATE	BY

APPROVALS

DESIGNED: W.R.	DRAWN: D.W.
SR. PROG. MGR.: V.F.C.	
ENG. REVIEW: C.B.	
CONST. REVIEW: M.G.	



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 State of Florida - License No. 62714
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 A.D.A. Engineering, Inc. (305) 551-4608
 Date: _____

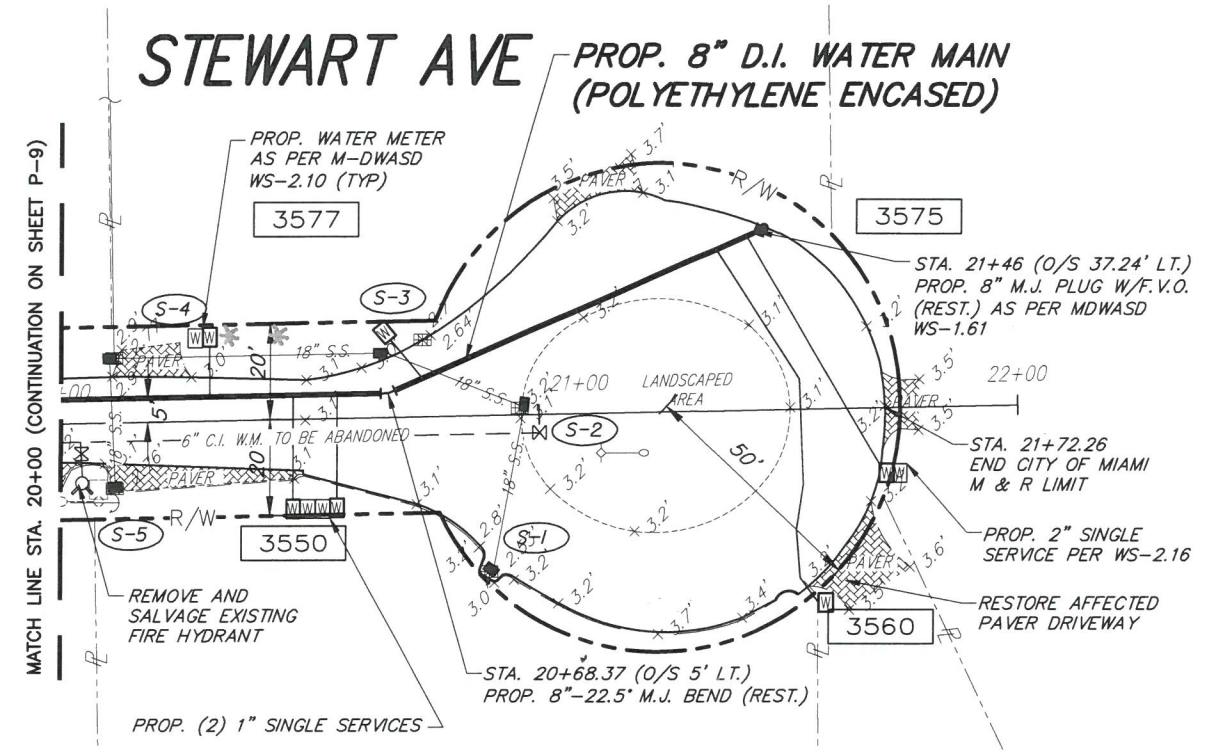
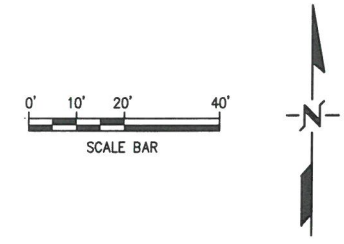
PROJECT No. : B-30836
 FILE NAME: P-15-24-PLPRF.DWG
 DATE: FEB. 27, 17 SCALE: HOR. 1"=40'
 VER. 1"=4'
 SHEET **P-9 OF 17**
 DWG. No. **W-21644-B**



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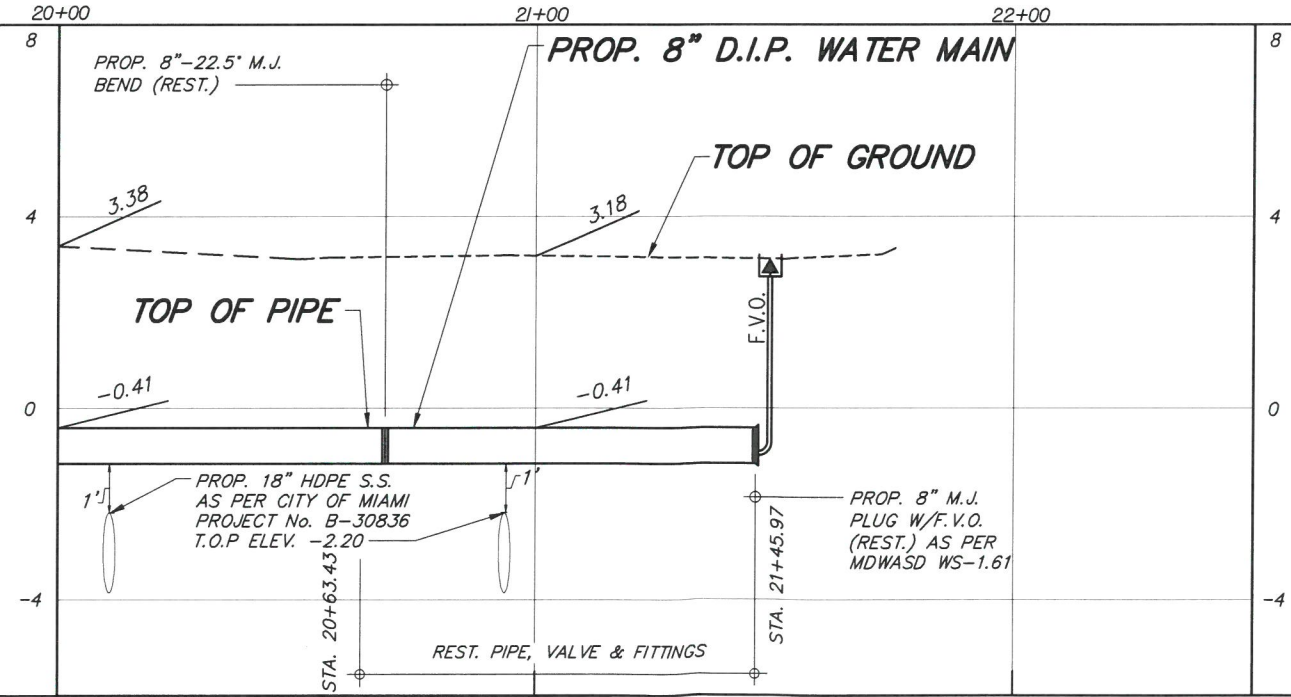
FURNISH & INSTALL 8-INCH D.I. WATER MAIN WITHIN ENTRADA NEIGHBORHOOD AND LOQUAT AVE. FROM S.W. 37th AVE. TO LINDEN LN. PCTS No. 14590, ER No. W017003 CITY OF MIAMI J.P.A. No. B30836

PLAN AND PROFILE



PROPOSE DRAINAGE STRUCTURES AS PER CITY OF MIAMI, PROJECT No. B-30836

- 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-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-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-4**
USF 6286 H
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
- S-5**
TYPE D-4 INLET
EOP. EL. 2.78'
INV. EL. -3.8' (N)
B.O.S. EL. -5.8'
STA. 20+11.43,
12.23' RT

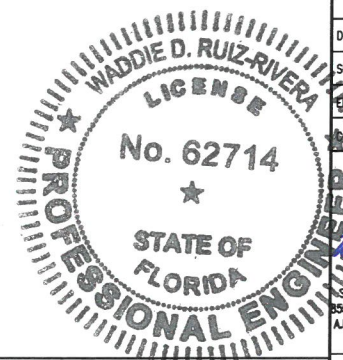


REVISIONS

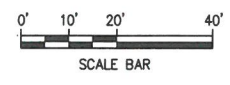
No.	DESCRIPTION	DATE	BY

APPROVALS

DESIGNED: W.R.	DRAWN: D.W.
SR. PROG. MGR: V.F.C.	
ENG. REVIEW: C.B.	
POST REVIEW: M.G.	



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A.D.A. Engineering, Inc. (305) 551-4608
Date: 2/27/2017



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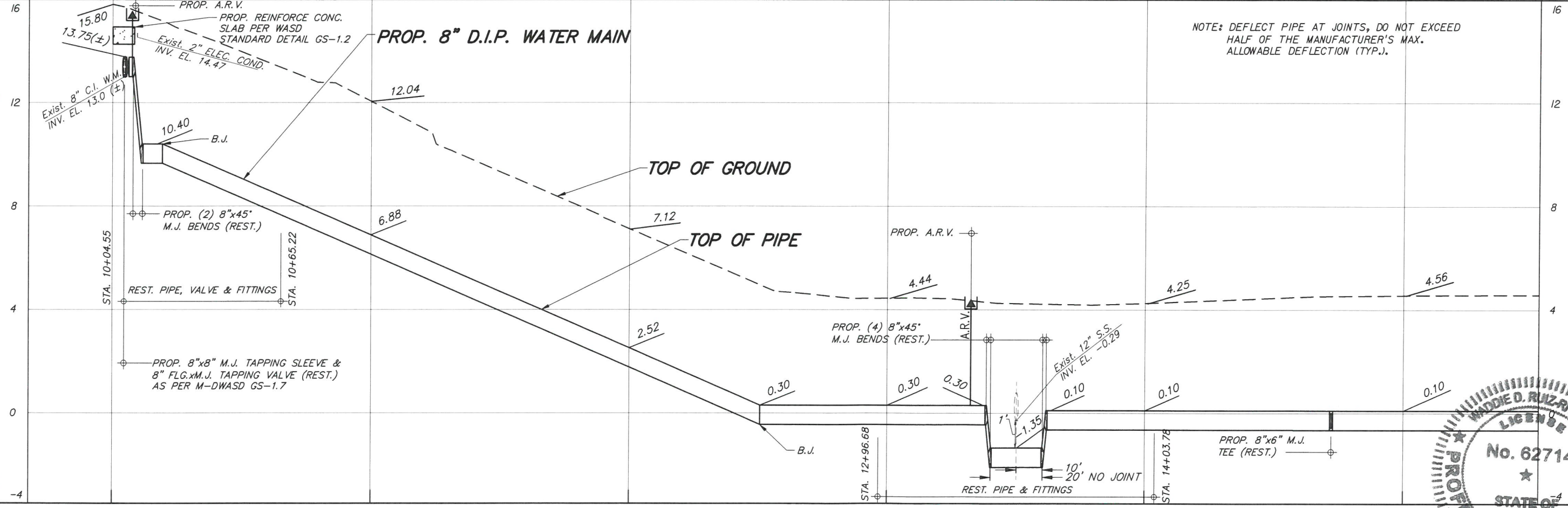
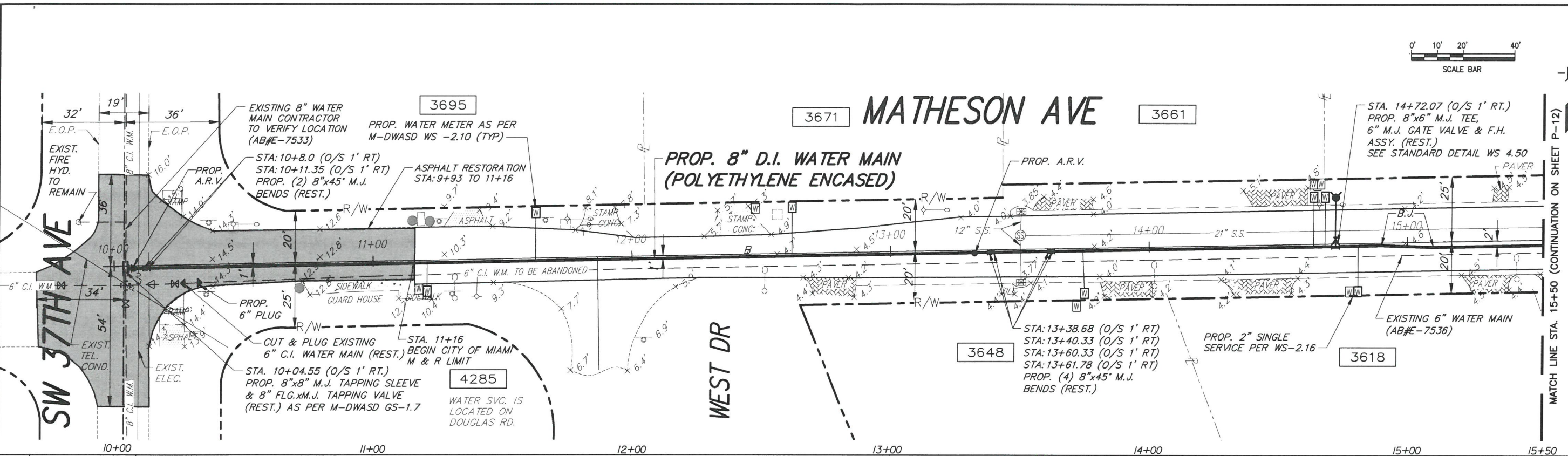
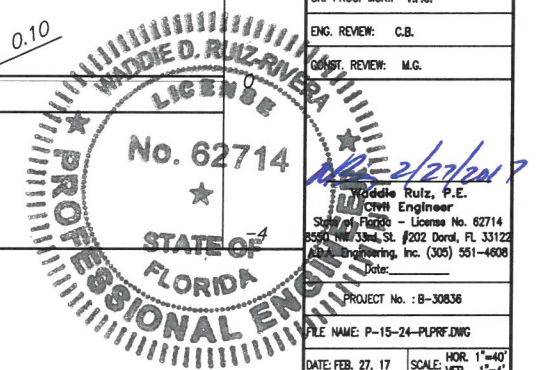
PLAN AND PROFILE

REVISIONS

No.	DESCRIPTION	DATE	BY

APPROVALS

DESIGNED: W.R.	DRAWN: D.W.
SR. PROG. MGR.: V.F.C.	
ENG. REVIEW: C.B.	
COST. REVIEW: M.G.	



PROJECT No. : B-30836
 FILE NAME: P-15-24-PLPRF.DWG
 DATE: FEB. 27, 17
 HOR. SCALE: 1"=40'
 VER. SCALE: 1"=4'
 SHEET **P-11** OF 17
 DWG. No. **W-21646-B**

**FURNISH & INSTALL 8-INCH D.I. WATER MAIN
 WITHIN ENTRADA NEIGHBORHOOD AND LOQUAT AVE.
 FROM S.W. 37th AVE. TO LINDEN LN.
 PCTS No. 14590, ER No. W017003
 CITY OF MIAMI J.P.A. No. B30836**

PLAN AND PROFILE

REVISIONS

No.	DESCRIPTION	DATE	BY

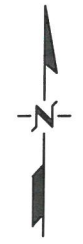
APPROVALS

DESIGNED: W.R.	DRAWN: D.W.
SR. PROG. MGR.: V.F.C.	
ENG. REVIEW: C.B.	
CONST. REVIEW: M.G.	

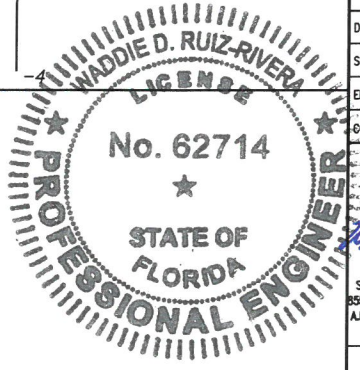
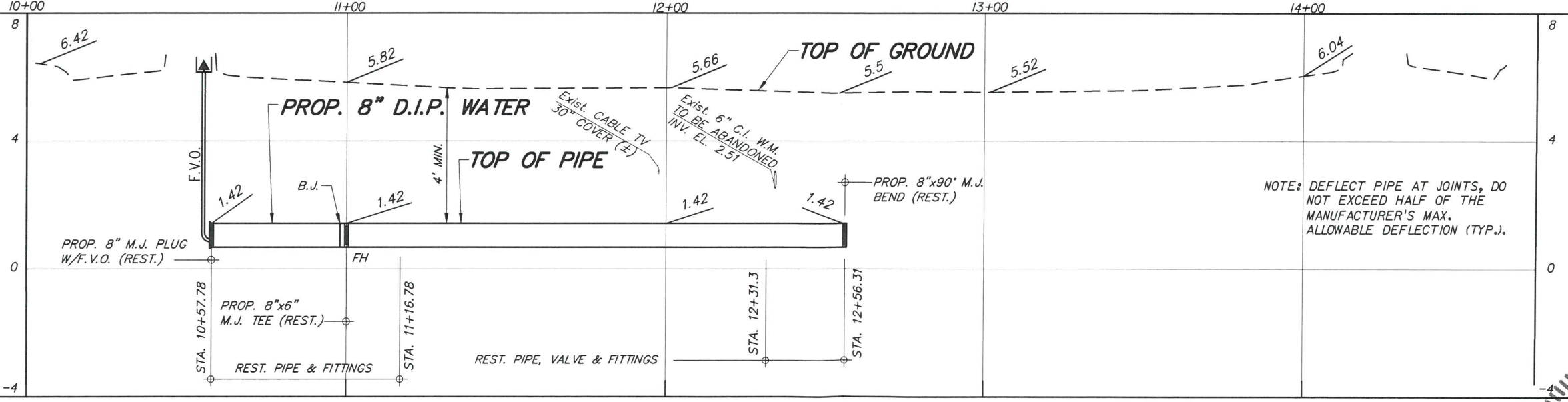
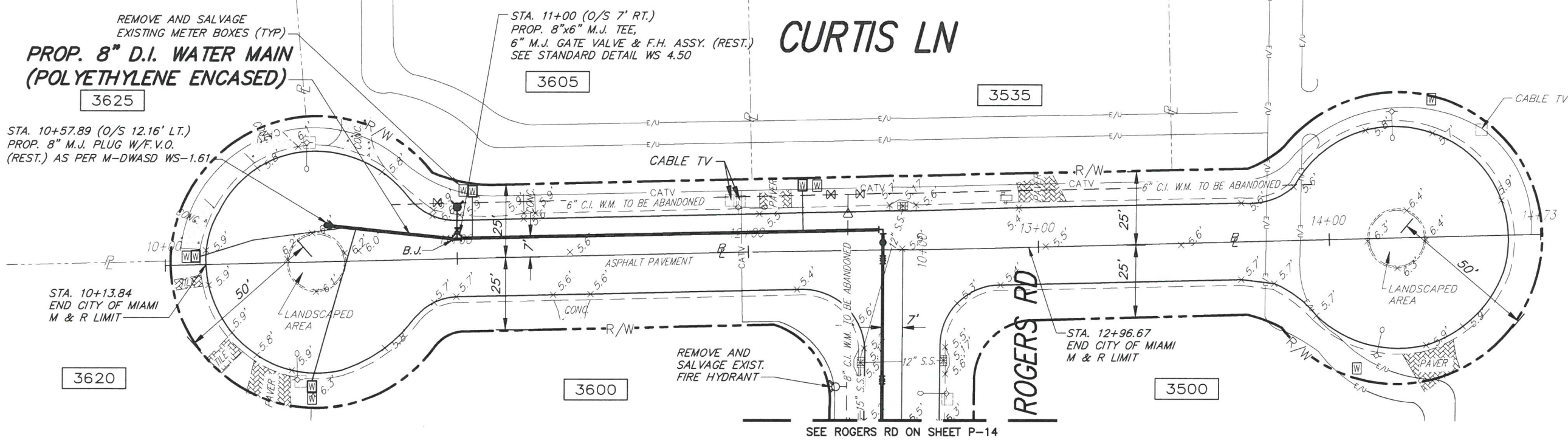
WADDIE D. RUIZ-RIVERA
 LICENSE
No. 62714
 STATE OF FLORIDA
PROFESSIONAL ENGINEER

Waddie Ruiz, P.E.
 Civil Engineer
 State of Florida - License No. 62714
 8550 NW 33rd St., #202 Doral, FL 33122
 A.D.A. Engineering, Inc. (305) 551-4608
 Date: 2/27/2017

PROJECT No.: B-30836
 FILE NAME: P-15-24-PLUPRF.DWG
 DATE: FEB. 27, 17
 SCALE: HOR. 1"=40'
 VER. 1"=4'
SHEET P-15 OF 17
 DWG. No. W-21650-B



CURTIS LN

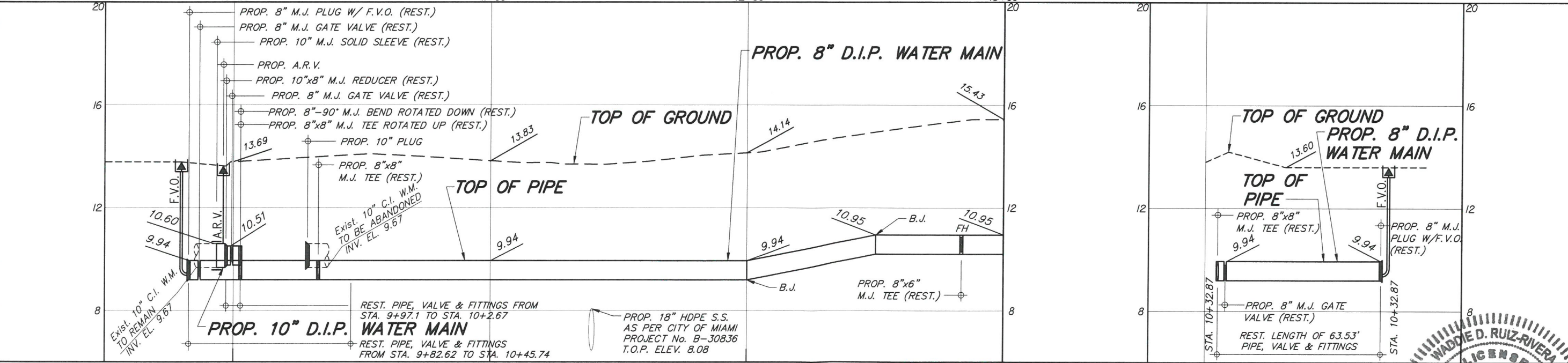
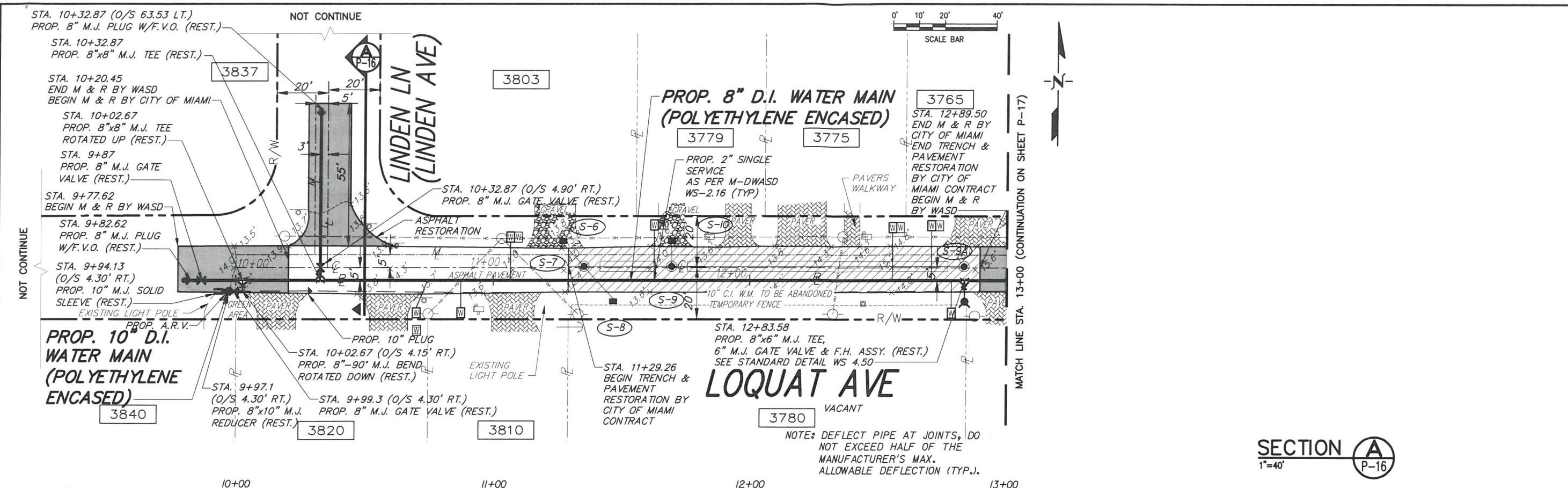
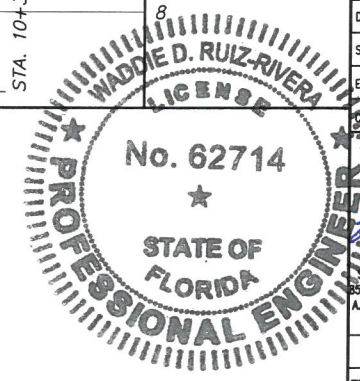


FURNISH & INSTALL 8-INCH D.I. WATER MAIN WITHIN ENTRADA NEIGHBORHOOD AND LOQUAT AVE. FROM S.W. 37th AVE. TO LINDEN LN. PCTS No. 14590, ER No. W0170033 CITY OF MIAMI J.P.A. No. B30836

PLAN AND PROFILE

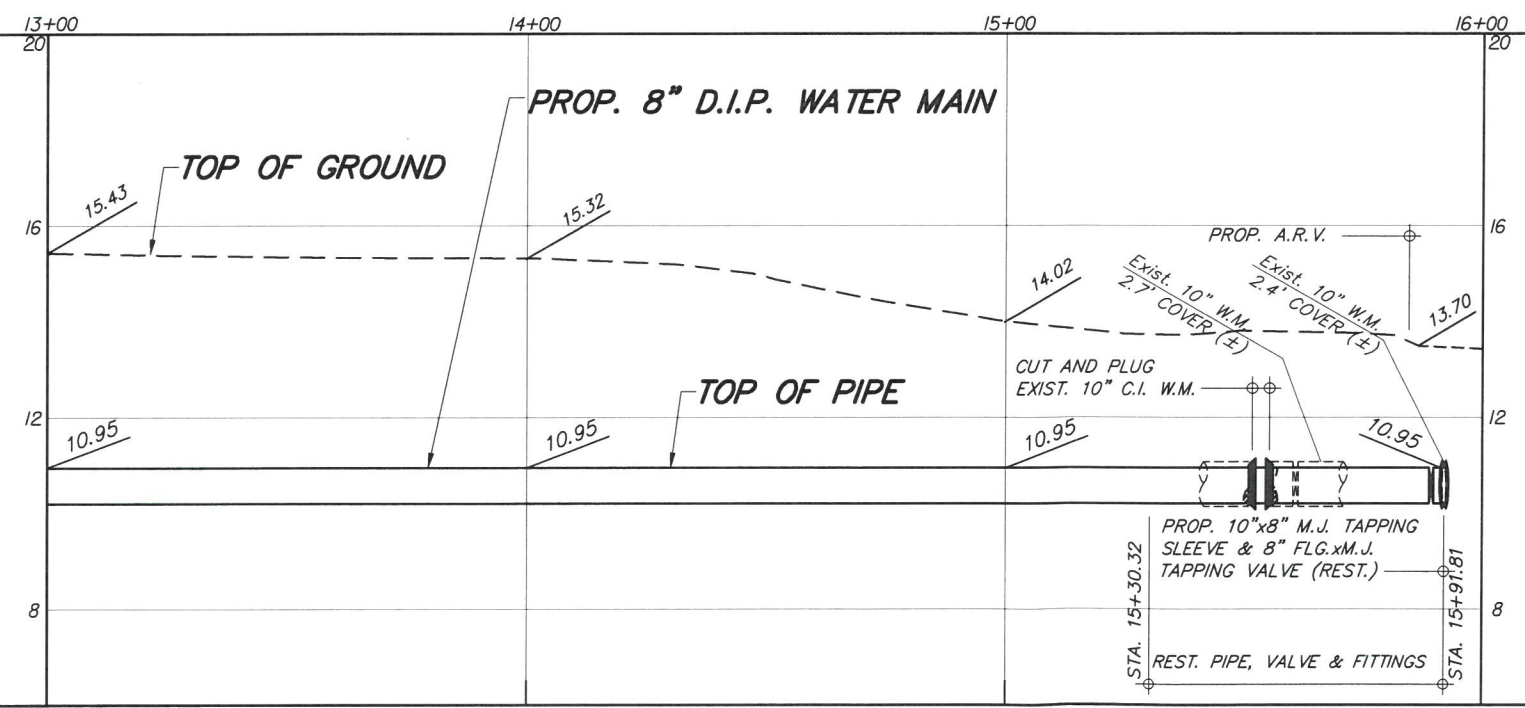
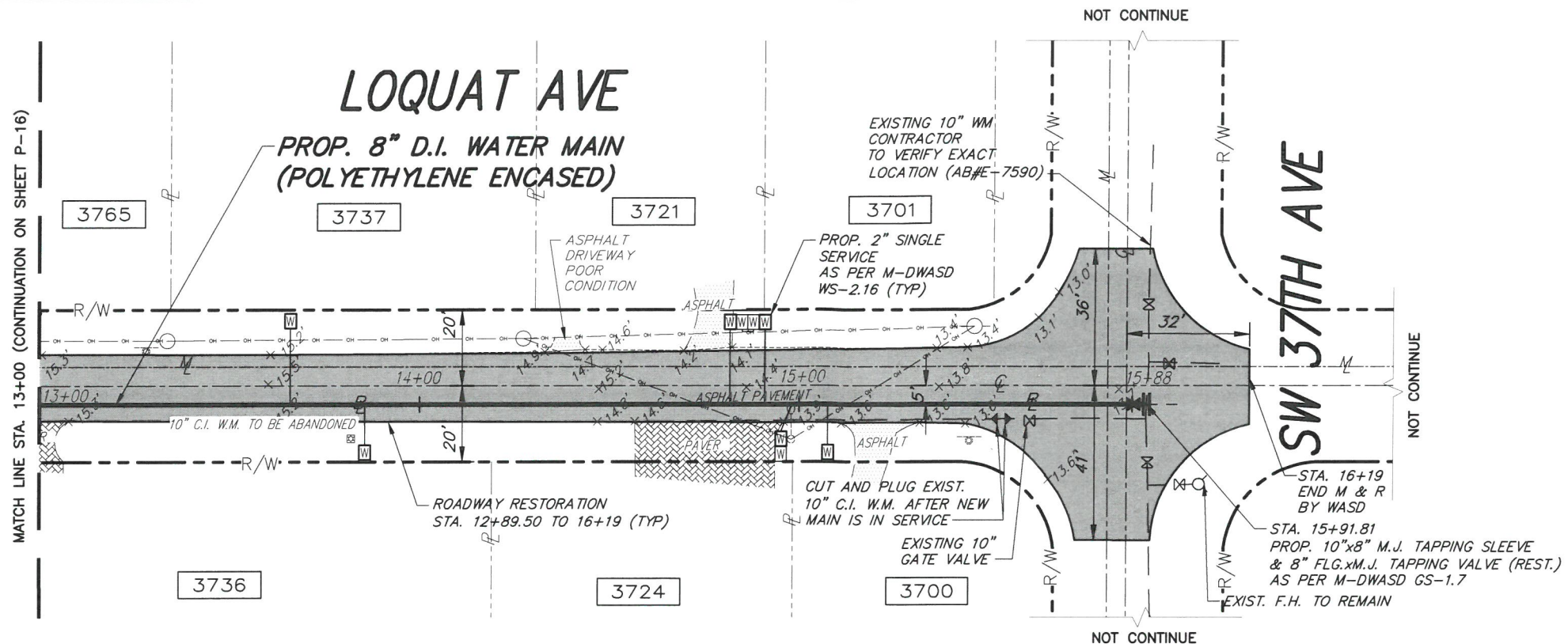
REVISIONS			
No.	DESCRIPTION	DATE	BY

APPROVALS	
DESIGNED: W.R.	DRAWN: D.W.
SR. PROG. MGR.: V.F.C.	
ENG. REVIEW: C.B.	
CONST. REVIEW: M.G.	



PROPOSE DRAINAGE STRUCTURES AS PER CITY OF MIAMI, PROJECT No. B-30836

- (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 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 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. 5.34 STA 11+69.40, 4.5' RT
- (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
- (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



NOTE: DEFLECT PIPE AT JOINTS, DO NOT EXCEED HALF OF THE MANUFACTURER'S MAX. ALLOWABLE DEFLECTION (TYP.).

MIAMI-DADE COUNTY
 Delivering Excellence Every Day
WATER & SEWER DEPARTMENT
 3071 SW 38TH AVENUE
 MIAMI, FL 33146-1520
 305-665-7471
 www.miamidade.gov/water
 UTILITY PIPELINE ENGINEERING & CONSTRUCTION DIVISION
 3575 S. LEJEUNE RD.
 MIAMI, FL 33134-7109
 786-268-5310

A.D.A.
 8550 N.W. 33RD STREET • SUITE 202
 DORAL, FLORIDA 33122
 PHONE (305) 551-4608
 FAX (305) 551-8977
 WWW.ADAENG.NET • EB # 00003212

FURNISH & INSTALL 8-INCH D.I. WATER MAIN WITHIN ENTRADA NEIGHBORHOOD AND LOQUAT AVE. FROM S.W. 37TH AVE. TO LINDEN LN. PCTS No. 14590, ER No. W017003 CITY OF MIAMI J.P.A. No. B30836

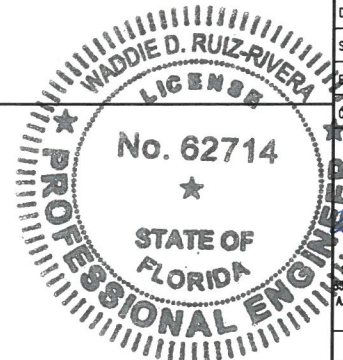
PLAN AND PROFILE

REVISIONS

No.	DESCRIPTION	DATE	BY

APPROVALS

DESIGNED: W.R.	DRAWN: D.W.
SR. PROG. MGR.: V.F.C.	
ENG. REVIEW: C.B.	
CONST. REVIEW: M.G.	



Waddie Ruiz, P.E.
 Civil Engineer
 State of Florida - License No. 62714
 8550 NW 33rd St. #202 Doral, FL 33122
 A.D.A. Engineering, Inc. (305) 551-4608
 Date: 2/27/2017

PROJECT No.: B-30836
 FILE NAME: P-15-24-PLPRF.DWG
 DATE: FEB. 27, 17 SCALE: HOR. 1"=40'
 VER. 1"=4'
 SHEET **P-17 OF 17**
 DWG. No. **W-21652-B**