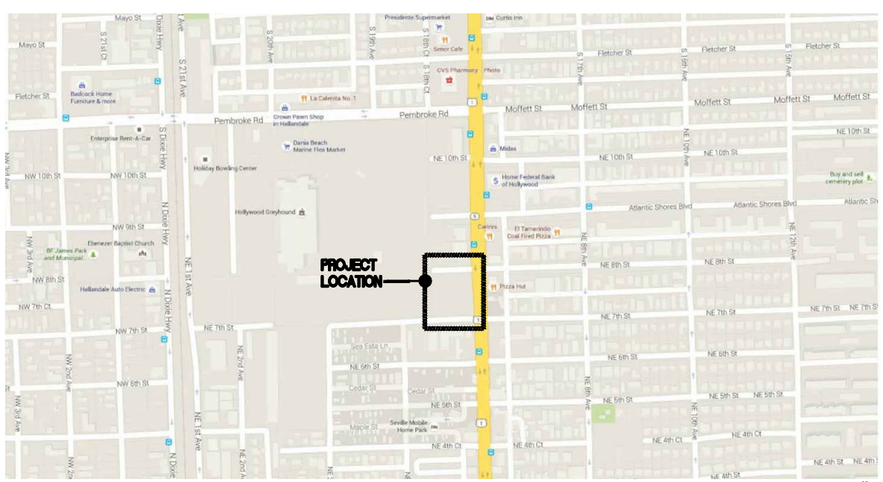
VILLAGE AT ATLANTIC SHORES II

NE. 7TH STREET AND N. FEDERAL HIGHWAY
HALLANDALE BEACH, FL.



LOCATION MAP
N.T.S.

ARCHITECT

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LANDSCAPE ARCHITECT

BARRANCO, RLA INC.

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FORT LAUDERDALE, FL 33316
PH:954-667-7814

CIVIL ENGINEER

FLYNN ENGINEERING SERVICES

241 COMMERCIAL BLVD
LAUDERDALE BY THE SEA, FL.33308
PH:954-522-1004 FAX:954-522-7630

TRAFFIC ENGINEER

KIMLEY-HORN

1920 WEKIVA WAY, SUITE 200.
WEST PALM BEACH, FL 33411
PH: 561-845-0665

DRAWING INDEX

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VILLAGE AT ATLANTIC SHORES II
N.E. 7TH STREET AND N. FEDERAL HIGHWAY
HALLANDALE BEACH, FLORIDA
CLIENT: ATLANTIC VILLAGE 2, LLC

REV	DATE	DESCRIPTION
1	06/15/17	DRC COMMENTS / REVISIONS
2	09/18/17	DRC COMMENTS / REVISIONS

DESIGN DELIVERABLE: **DRC SUBMITTAL**
ISSUE DATE: **03-16-17**

PROJECT NUMBER: **1338-160231**
DRAWN BY: JS
CHECKED BY: JS

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SHEET TITLE:
COVER SHEET

SHEET NUMBER:
T-001

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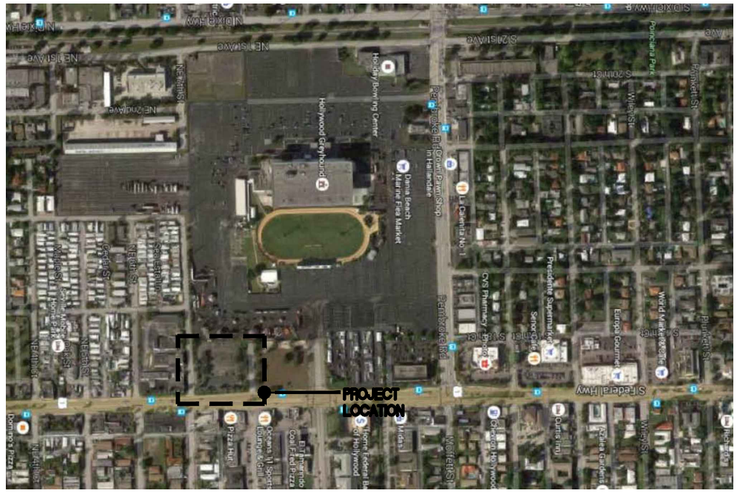
LOCATION MAP



SITE INFORMATION:

CURRENT ZONING: RAC CORRIDOR SUBDISTRICT
PROPOSED USE: RETAIL / OFFICE / RESTAURANT

UTILITIES:
ELECTRIC - FP & L
WATER AND SEWER - CITY OF HALLANDALE BEACH

SITE CALCULATIONS

TOTAL SITE AREA :	(1.69 ACRES)	73,942 SQ. FT.	
TOTAL LANDSCAPE AREA :		12,054 SQ. FT.	16.30 %
TOTAL IMPERVIOUS AREA :		61,888 SQ. FT.	83.70 %

LANDSCAPE AREA:

TOTAL PROVIDED:	12,054 SQ. FT.	16.30 %
CIVIC SPACE LANDSCAPE AREA:	530 SQ. FT.	0.72 %
SITE LANDSCAPE AREA:	11,524 SQ. FT.	15.58 %

IMPERVIOUS AREA:

TOTAL PROVIDED:	61,888 SQ. FT.	83.70 %
5' R.O.W. DEDICATION AREA:	1,261 SQ. FT.	1.70 %
BLDG. FOOTPRINT/ COVER WALK AREA:	19,568 SQ. FT.	26.47 %
WALKS:	5,746 SQ. FT.	7.77 %
CIVIC OPEN SPACE:	3,174 SQ. FT.	4.29 %
VEHICULAR USE AREA (V. U. A.):	32,139 SQ. FT.	43.47 %

LEGAL DESCRIPTION

PARCEL B:

PARCEL 1:

ALL OF TRACT C OF FEDERALTRACTS ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 18, AT PAGE 10 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, LESS THE FOLLOWING DESCRIBED PARCEL:

ALL THAT PART OF TRACT C OF FEDERAL TRACTS, WHICH LIES EAST OF THE FOLLOWING DESCRIBED LINE:

COMMENCE AT THE SOUTHEAST CORNER OF SAID TRACT C THENCE RUN WESTERLY ALONG THE SOUTH LINE OF SAID TRACT C A DISTANCE OF 15.61 FEET TO A POINT OF CURVE AND THE POINT OF BEGINNING; THENCE RUN EASTERLY AND NORTHERLY ALONG SAID CURVE WHICH IS CONCAVE TO THE NORTHWEST, HAVING A RADIUS OF 15 FEET THROUGH A CENTRAL ANGLE OF 92°16'32" AN ARC DISTANCE OF 24.16 FEET TO THE END OF SAID CURVE; THENCE RUN NORTH 04°20'23" WEST A DISTANCE OF 253.70 FEET TO A POINT OF CURVE, SAID CURVE BEING CONCAVE TO THE SOUTHWEST; THENCE RUN NORTHERLY AND WESTERLY ALONG SAID CURVE HAVING A RADIUS OF 15 FEET THROUGH A CENTRAL ANGLE OF 87°51'13" AN ARC DISTANCE OF 23.00 FEET TO THE END OF SAID CURVE AND THE END OF THE HEREIN DESCRIBED LINE; THENCE RUN EASTERLY ALONG THE NORTH LINE OF SAID TRACT C A DISTANCE OF 27.13 FEET TO THE NORTHEAST CORNER OF SAID TRACT C ALL AS SHOWN ON THE RIGHT OF WAY MAP SECTION 86010-2510, STATE ROAD NO. 5.

ALSO LESS THAT PORTION THEREOF CONVEYED TO CITY OF HALLANDALE IN QUIT CLAIM DEED RECORDED JANUARY 29, 1981 IN OFFICIAL RECORDS BOOK 9385, PAGE 65, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

THE EAST 10 FEET OF TRACT C OF THE PLAT OF FEDERAL TRACTS, AS RECORDED IN PLAT BOOK 18, PAGE 10, PUBLIC RECORDS OF BROWARD COUNTY, TOGETHER WITH:

THAT PORTION OF SAID TRACT C LYING EXTERNAL TO AN ARC OF A CURVE WHICH IS CONCAVE TO THE SOUTHWEST, HAVING A RADIUS OF 20.00', TANGENT TO THE NORTH LINE OF SAID TRACT C AND TANGENT TO A LINE THEN (10.0') FEET WEST OF AND PARALLEL WITH THE EAST LINE OF SAID TRACT C, TOGETHER WITH:

THAT PORTION OF SAID TRACT C LYING EXTERNAL TO AN ARC OF A CURVE WHICH IS CONCAVE TO THE NORTHWEST, HAVING A RADIUS OF 20.00', TANGENT TO THE SOUTH LINE OF SAID TRACT C AND TANGENT TO A LINE THEN (10.0') FEET WEST OF AND PARALLEL WITH THE EAST LINE OF SAID TRACT C, LESS ALL PREVIOUSLY DEEDED OR DEDICATED RIGHT OF WAY.

PARCEL 2:

THAT PORTION OF N.E. 7TH STREET VACATING ORDER: ORDINANCE NO. 1988-10, DESCRIBED FOR TRACT C, OF FEDERAL TRACTS, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 18, PAGE 10 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

THE NORTH HALF OF THAT PORTION OF NE 7TH STREET (BEING 25 FOOT HALF RIGHT OF WAY) IN THE CITY OF HALLANDALE, BROWARD COUNTY, FLORIDA, LYING SOUTHERLY OF AND BEING ADJACENT TO THE SOUTHERLY BOUNDARY LINE OF THE AFORESTATED TRACT C BOUNDED ON THE WEST BY THE SOUTHERLY EXTENSION OF THE WESTERLY BOUNDARY LINE OF THE AFORESAID TRACT C TO THE CENTER LINE OF NE 7TH STREET AND BOUNDED ON THE EAST BY THE WEST RIGHT OF WAY LINE OF FEDERAL HIGHWAY (U.S. 1) SAID LAND BEING A PARCEL 256.35 LINEAR FEET BY 25 FEET IN WIDTH:
MORE PARTICULARLY DESCRIBED AS FOLLOWS:
THE POINT OF COMMENCEMENT (POC) BEING THE INTERSECTION OF THE EAST RIGHT OF WAY LINE OF NE 4TH AVENUE AND THE SOUTH RIGHT OF WAY LINE OF NE 7TH STREET (BLOCK CORNER); THENCE RUN NORTH 00°11'30" W FOR A DISTANCE OF 25 FEET TO THE INTERSECTION OF THE CENTER LINE OF NE 7TH STREET; THENCE RUN N 89°33'37" E ALONG THE CENTERLINE OF NE 7TH STREET FOR A DISTANCE 164.31 FEET TO THE POINT OF BEGINNING: THENCE CONTINUE ALONG THE SAME COURSE FOR A DISTANCE OF 256.47 FEET TO A POINT; THENCE RUN N00°26'23" W FOR A DISTANCE OF 25 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE TO THE NORTHWEST AND HAVING A RADIUS OF 15.00 FEET; THENCE RUN S 89°33'37" WEST ALONG THE SOUTHERLY BOUNDARY LINE OF THE AFORESTATED TRACT C, WHICH IS ALSO THE NORTHERLY RIGHT OF WAY LINE OF THE AFORESTATED NE 7TH STREET, FOR A DISTANCE OF 256.24 FEET TO A POINT; THENCE RUN S00°05'07" W FOR A DISTANCE OF 25.00 FEET TO THE POINT OF BEGINNING OF THIS PARCEL OF LAND.

RAC CORRIDOR / DESIGN SUBDISTRICT REQUIREMENTS TABLE 32-195(a)

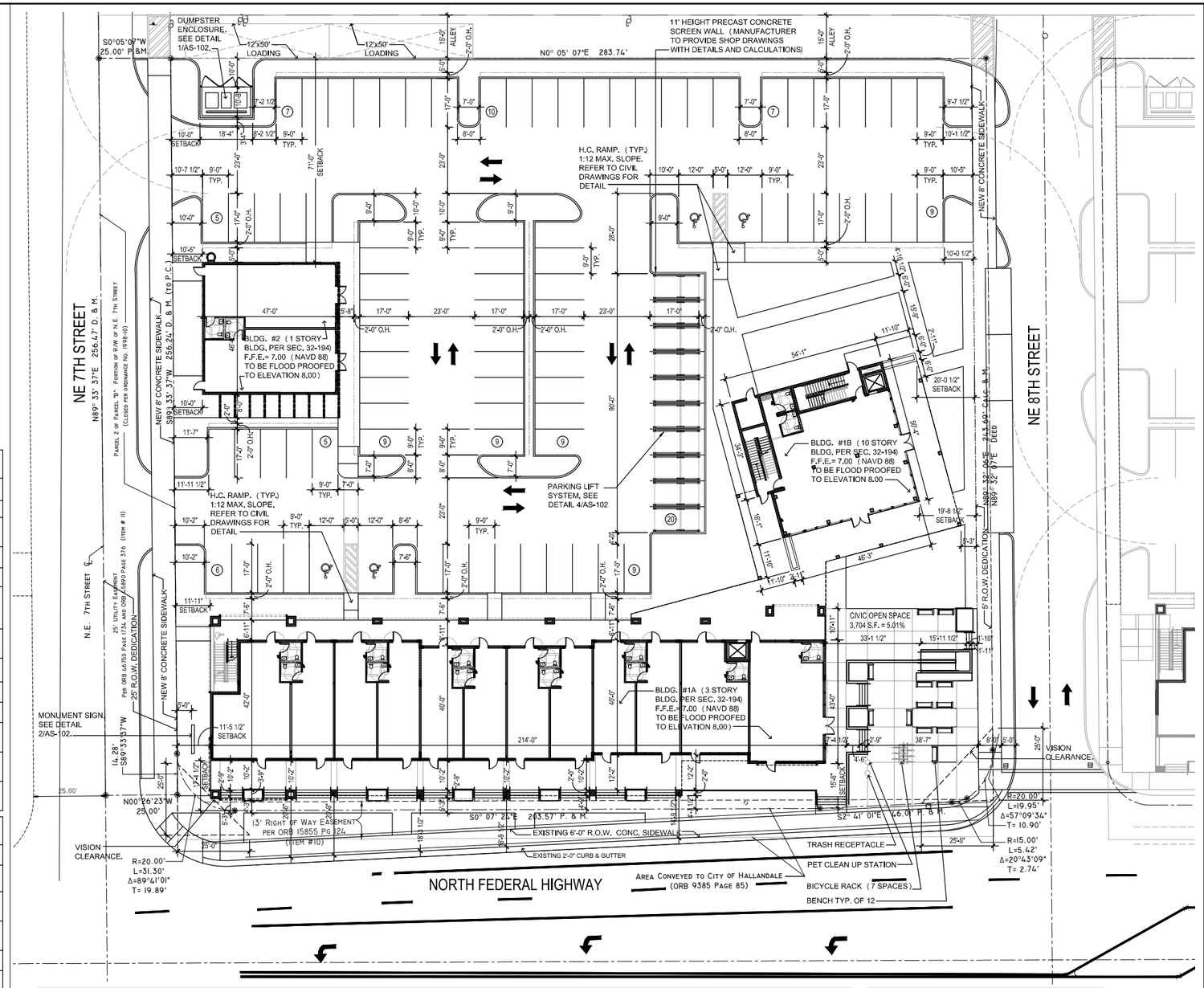
	REQUIRED	PROVIDED
LOT WIDTH	50' MIN.	283'-10"
LOT AREA	5,000 S.F. MIN./ 100,000 S.F. MAX.	73,942 S.F.
LOT COVERAGE	95% MAX.	83.70%
LANDSCAPE AREA	5% MIN.	16.30%
FEDERAL HWY. SETBACK	15' MIN. / 20' MAX.	16'-6"
PRIMARY STREET SETBACK	10' MIN. / 15' MAX.	N/A
SECONDARY STREET SETBACK	10' MIN.	10'-0"
INTERIOR SIDE SETBACK	0' MIN.	N/A
REAR SETBACK	10' MIN.	71'-0"
BUILDING FRONTAGE ON PRIMARY STREETS	75% MIN. / 100% MAX.	FEDERAL HWY. = 75.40%
MIN. HEIGHT PRIMARY STREETS	2 STORIES, OR 1 STORY 20 FT. HIGH	2 STORIES
CIVIC OPEN SPACE SITES 40,000 S.F. OR MORE	5%	3,704 S.F. = 5.01%

DIMENSIONAL REQUIREMENTS FOR STOREFRONTS TABLE 32-201 (f)

	REQUIRED	PROVIDED
BUILDING SETBACK	VARIES BY SUBDISTRICT	SEE ABOVE TABLE 32-195(a)
STOREFRONT WIDTH	70% MIN. / 100% MAX.	FEDERAL HWY. = 75.40%
STOREFRONT BASE	1' MIN. / 3' MAX.	1'-0"
GLAZING HEIGHT	8' MIN.	12'-4"
GLAZING AREA	70% MIN. / 100% MAX.	FEDERAL HWY. = 96.26%
AWNING PROJECTION	3' MIN. / 2' FROM CURB MAX.	N/A
PEDESTRIAN BLADE SIGN PROJECTION	4' MAX.	N/A

DIMENSIONAL REQUIREMENTS FOR ARCADE/ COLONNADES TABLE 32-201 (g)

	REQUIRED	PROVIDED
BUILDING SETBACK	VARIES BY SUBDISTRICT	SEE ABOVE TABLE 32-195(a)
ARCADE/ COLONNADE DEPTH	10' MIN. / 20' MAX.	FEDERAL HWY. = 10'-2"
ARCADE/ COLONNADE HEIGHT	12' MIN.	14'-4"
COLUMN/ PILLAR TO FACE OF CURB	2' MIN. / 4' MAX.	VARIES. SEE SITE PLAN MIN. 6' (REQUIRED FDOT R.O.W. SIDEWALK)
ARCADE/ COLONNADE SETBACK ENCROACHMENT	VARIES BY STREET	N/A
PEDESTRIAN BLADE SIGN PROJECTION	4' MAX.	N/A



BUILDING DATA

BUILDING / STORY	BUILDING USE	GROSS BUILDING AREA (INCLUDES EXT. WALLS)	EXTERIOR COMMON AREA	AREA FOR PARKING CALCULATIONS	PARKING RATIO	PARKING REQUIRED	PARKING PROVIDED	ADA PARKING REQUIRED	ADA PARKING PROVIDED
BLDG #1 A&B / GROUND FLOOR	OFF/RET/ REST	11,412 S.F.		11,412 S.F. (GFA)	1/300 S.F	38.04 SPACES	FBC ACCESS. TABLE 208.2		
BLDG. #1 A&B / SECOND FLOOR	OFF/RET/ REST	13,514 S.F.	4,033 S.F.	13,514 S.F. (GFA)	1/300 S.F	45.04 SPACES			
BLDG. #1B / THIRD FLOOR	OFFICE	2,649 S.F.		1,985 S.F. (NFA)	1/300 S.F	6.62 SPACES			
BLDG. #1B / FOURTH FLOOR	OFFICE	2,649 S.F.		1,985 S.F. (NFA)	1/300 S.F	6.62 SPACES			
BLDG. #1B / FIFTH FLOOR	OFFICE	2,649 S.F.		1,985 S.F. (NFA)	1/300 S.F	6.62 SPACES			
BLDG. #1B / SIXTH FLOOR	OFFICE	2,649 S.F.		1,985 S.F. (NFA)	1/300 S.F	6.62 SPACES			
BLDG. #2 / GROUND FLOOR	OFF/RET/ REST	2,162 S.F.		2,162 S.F. (GFA)	1/300 S.F	7.20 SPACES		FBC ACCESS. TABLE 208.2	
TOTAL		37,684 S.F.	4,033 S.F.	35,028 S.F.		117 SPACES	(*) 105 SPACES (INCLUSIVE OF 10 LIFTS)	4 SPACES	4 SPACES

NOTE:

(.) REQUEST FOR REDUCTION OF 12 SPACES PER SEC. 32-455(c)(1), EQUAL OR LESS THAN 10% OF TOTAL REQUIRED PARKING.

(*) CITY ADMINISTRATION APPROVAL OF 10 PARKING LIFTS WITHIN SURFACE PARKING AREA. SAID PARKING LIFTS SHALL BE ENCLOSED OR SCREENED ON THREE SIDES.

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VILLAGE AT ATLANTIC SHORES II

N.E. 7TH STREET AND N. FEDERAL HIGHWAY
HALLANDALE BEACH, FLORIDA

CLIENT: ATLANTIC VILLAGE 2, LLC

REV	DATE	DESCRIPTION
1	06/15/17	DRC COMMENTS / REVISIONS
2	09/18/17	DRC COMMENTS / REVISIONS

DESIGN DELIVERABLE: DRC SUBMITTAL
ISSUE DATE: 03-16-17

PROJECT NUMBER: 1338-160231
DRAWN BY: JS
CHECKED BY: JS

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SHEET TITLE:
ARCHITECTURAL SITE PLAN

SHEET NUMBER:
AS-101

SITE INFORMATION / LOCATION MAP / CODE REQUIREMENTS

ARCHITECTURAL SITE PLAN
SCALE: 1" = 20'

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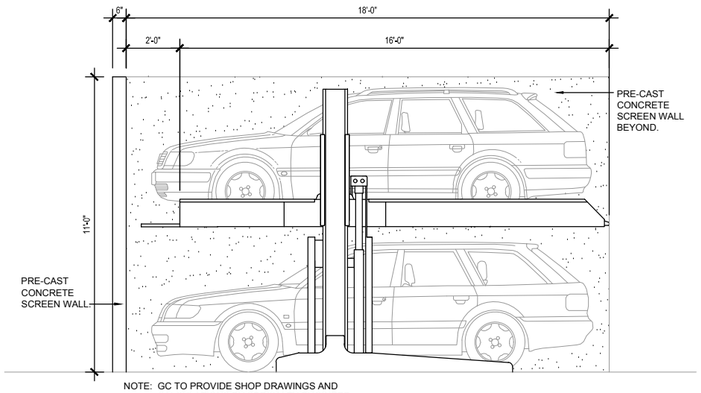
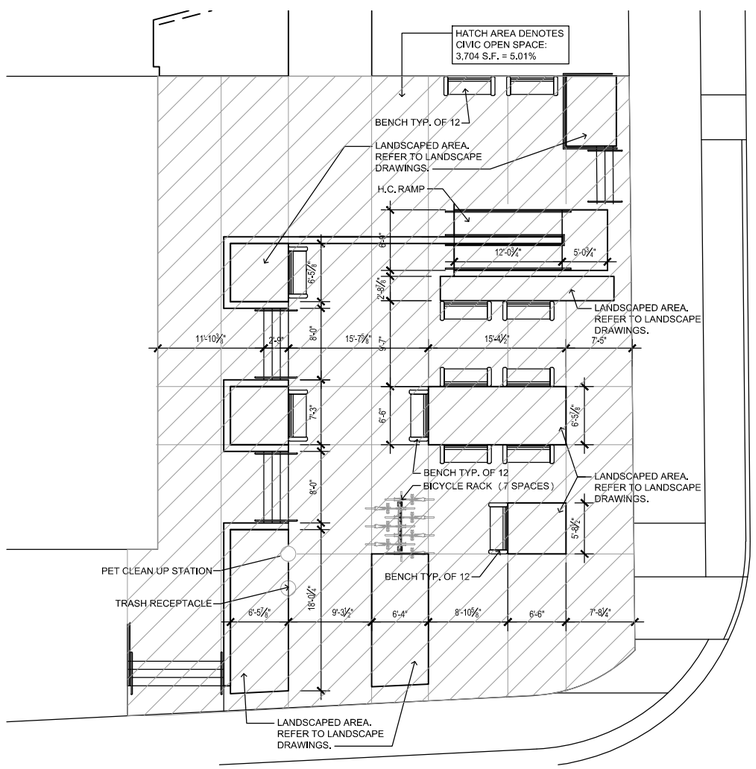


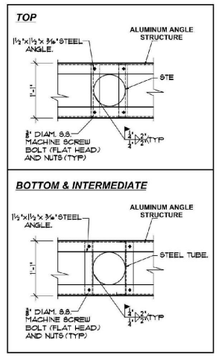
NOTE: GC TO PROVIDE SHOP DRAWINGS AND CALCULATIONS BY SPECIALTY ENGINEER

PARKING LIFT/ SCREEN WALL DETAIL
SCALE: 3/8" = 1'-0"



ENLARGED CIVIC SPACE FLOOR PLAN
SCALE: 1/8"=1'-0"

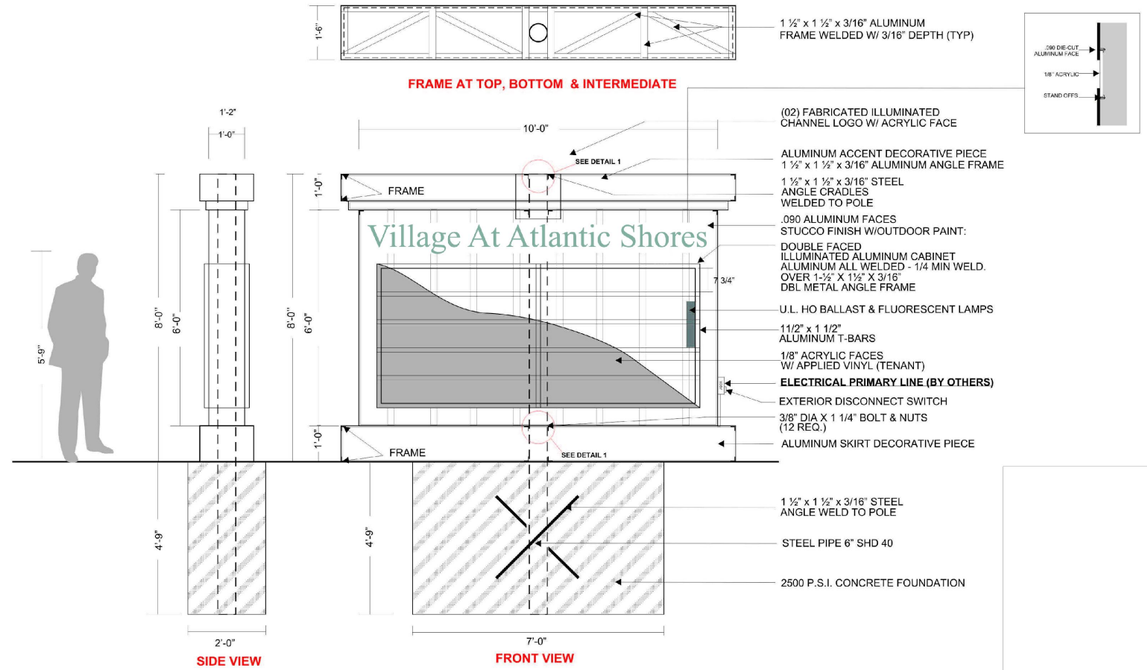
DETAIL 1



STRUCTURAL NOTES

ALUMINUM TUBES & SHAPES TO BE ALLOY T 6061-T6 OR SIMILAR ALUMINUM PLATES AND SHAPES TO BE ALLOY 5052H32

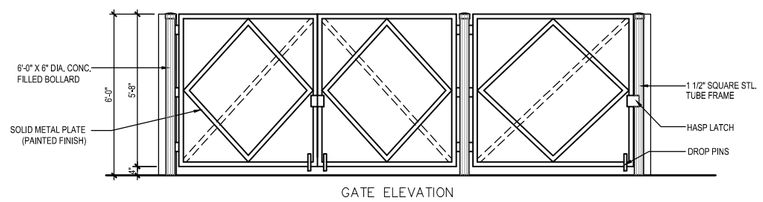
PER FBC 2218.3 AND/OR 2003.8.1.4 WELDING IN THE SHOP OR FIELD MAY BE DONE ONLY BY AWS CERTIFIED WELDERS.



AREA OF SIGN: 6'-0" (H) X 10'-0" (W) = 60 S.F.
MONUMENT SIGN - MAX. HEIGHT: 8'-0" (H)

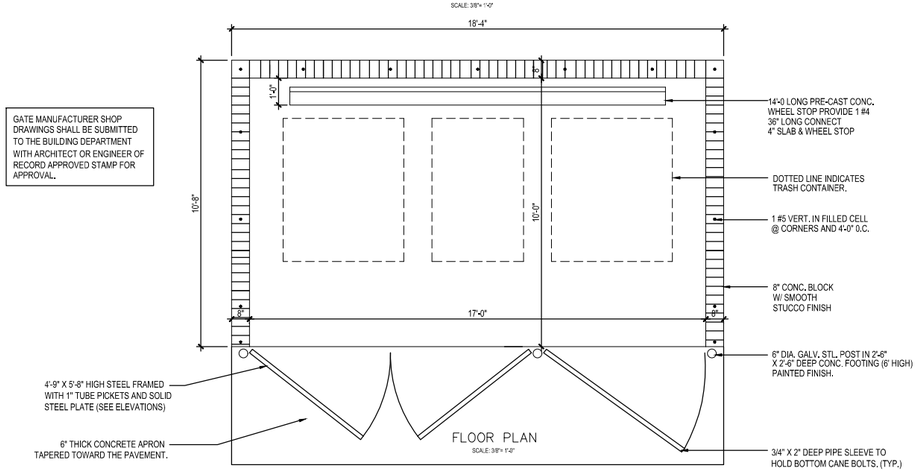
NOTE: CONTRACTOR SHALL SUBMIT MONUMENT SIGN UNDER SEPARATE PERMIT WITH RE□UIRED SHOP DRAWINGS WITH ARCHITECT'S OR ENGINEER'S OF RECORD APPROVED STAMP TO THE BUILDING DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION

MONUMENT SIGN DETAIL
SCALE: 1/2" = 1'-0"

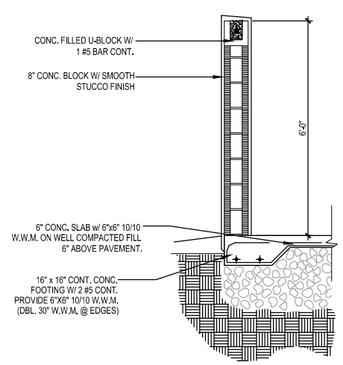


GATE ELEVATION
SCALE: 3/8"= 1'-0"

GATE MANUFACTURER SHOP DRAWINGS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT WITH ARCHITECT OR ENGINEER OF RECORD APPROVED STAMP FOR APPROVAL.



FLOOR PLAN
SCALE: 3/8"= 1'-0"



SECTION
SCALE: 1/2" = 1'-0"

DUMPSTER DETAIL
SCALE: AS NOTED

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DRAWN BY: **JS**
CHECKED BY: **JS / MS**

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SHEET TITLE:
MONUMENT SIGN / DUMPSTER DETAILS

SHEET NUMBER:
AS-102

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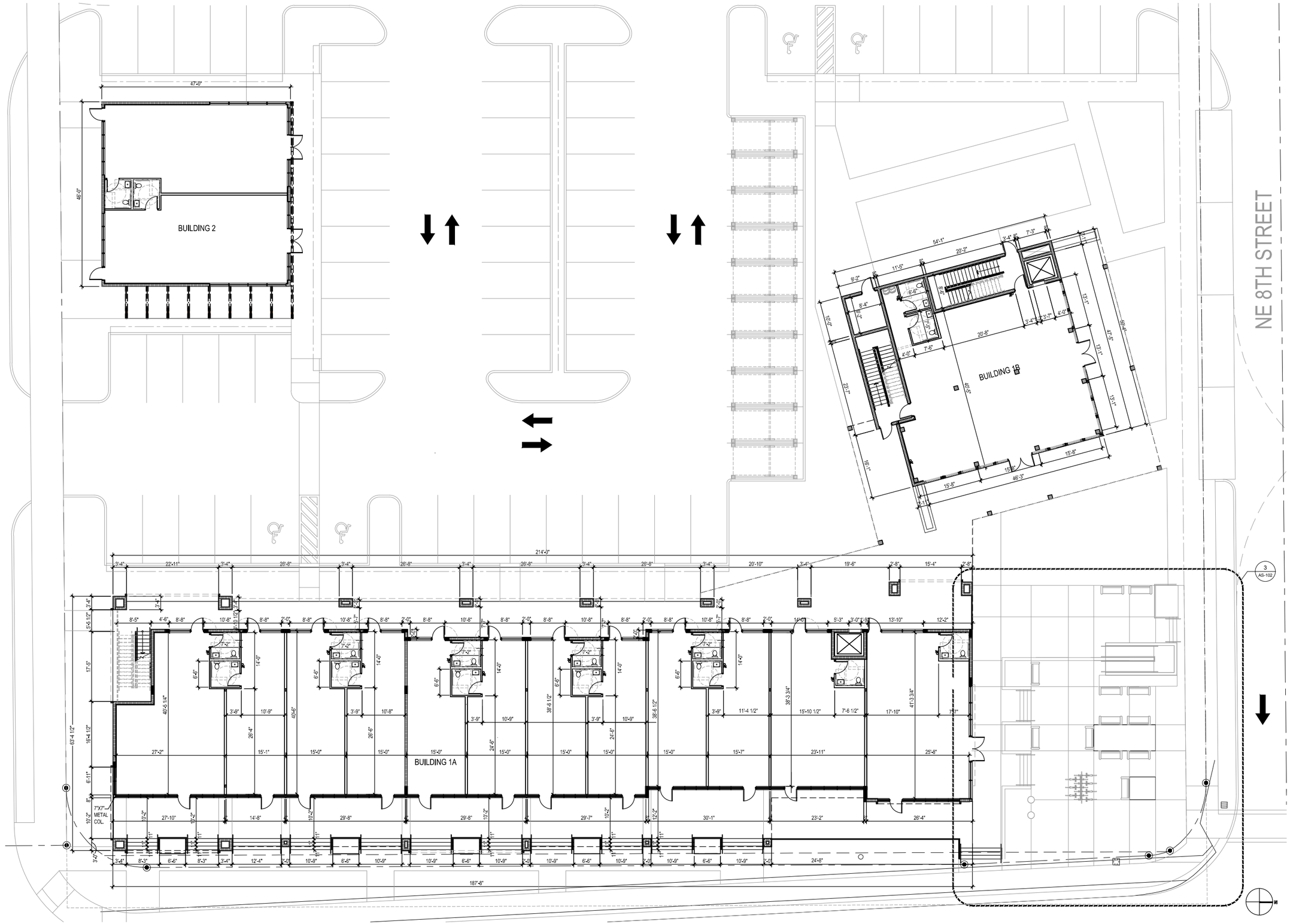

FIRST FLOOR PLAN
SCALE: 3/32"=1'-0"

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CHECKED BY: **JS**

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SHEET TITLE:
FIRST FLOOR PLAN

SHEET NUMBER:
A-101

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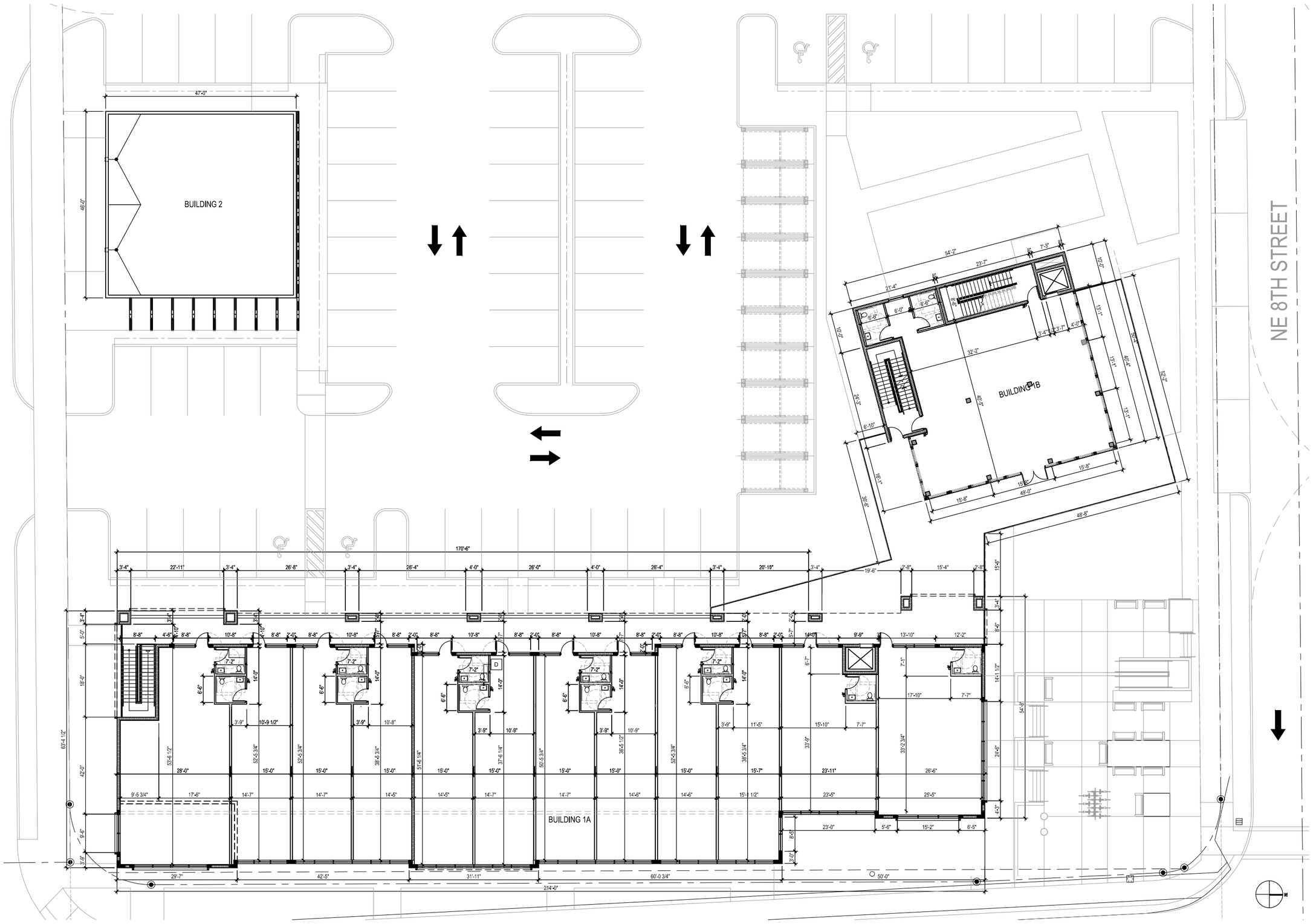

SECOND FLOOR PLAN
SCALE: 3/32"=1'-0"

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SHEET TITLE:
SECOND FLOOR PLAN

SHEET NUMBER:
A-102

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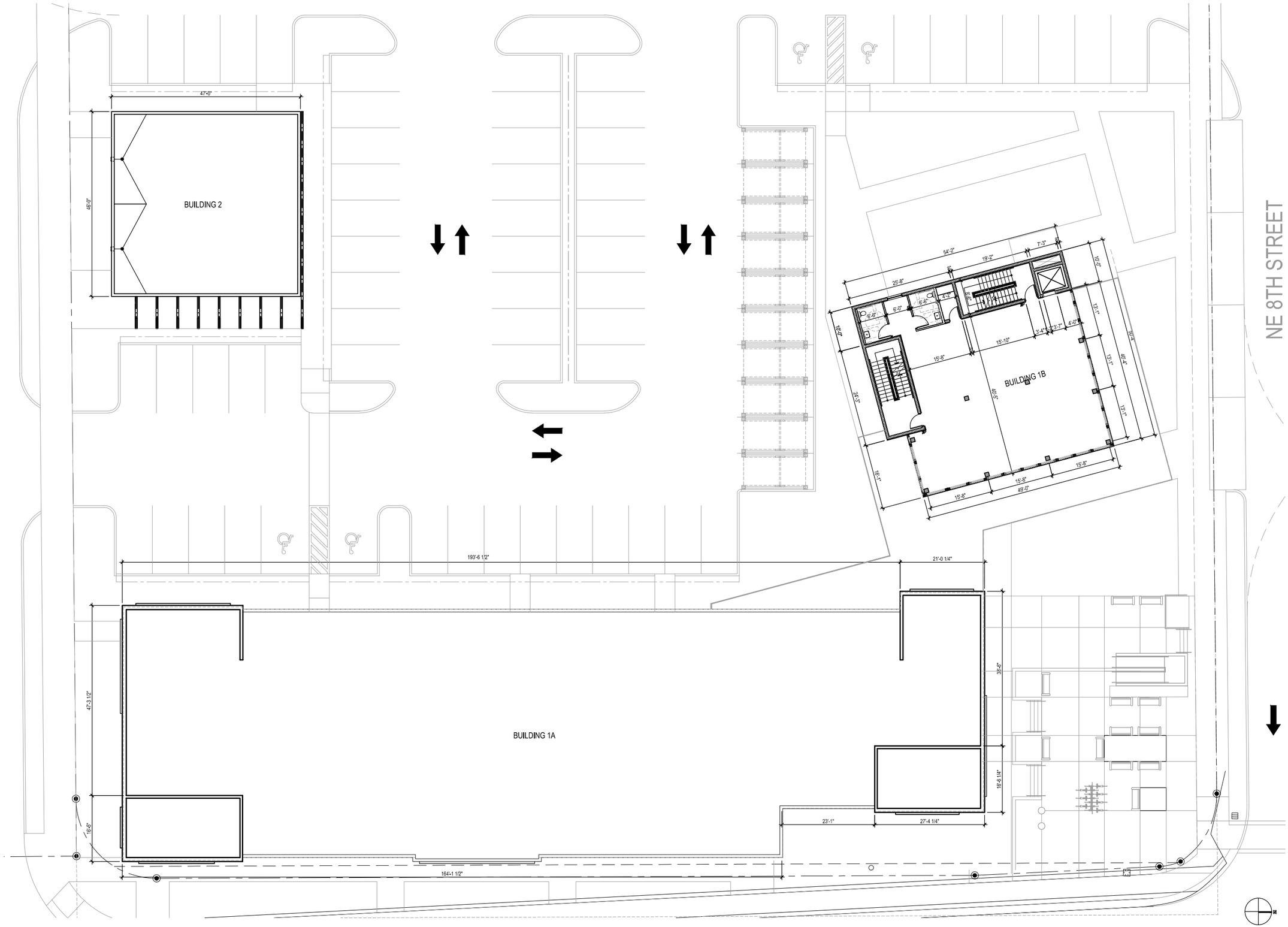

THIRD TO SIXTH FLOOR PLAN
SCALE: 3/32"=1'-0"

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CHECKED BY: JS

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SHEET TITLE:
THIRD TO SIXTH FLOOR PLAN

SHEET NUMBER:
A-103

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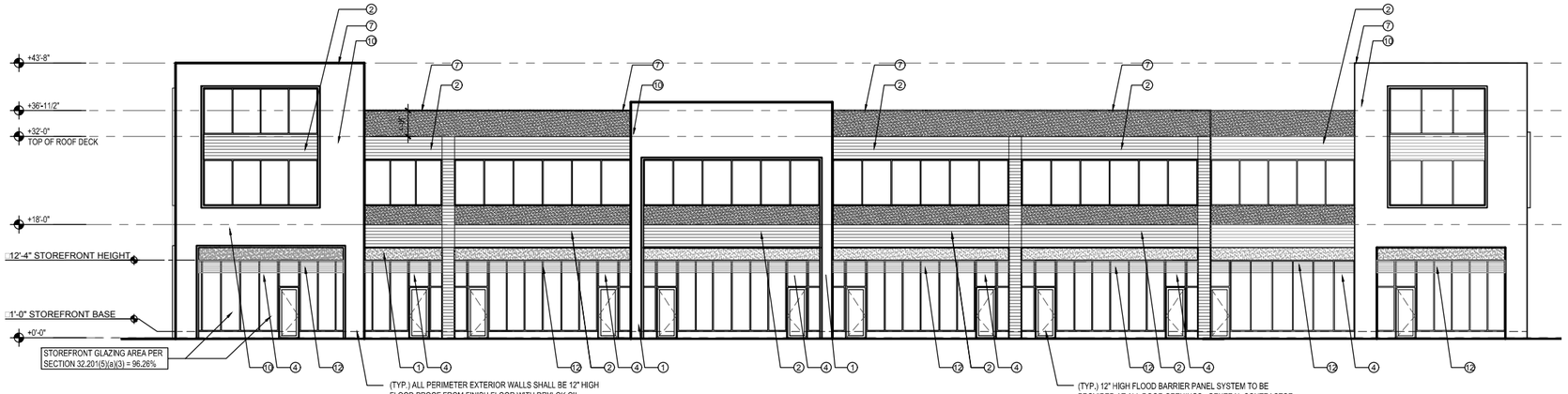
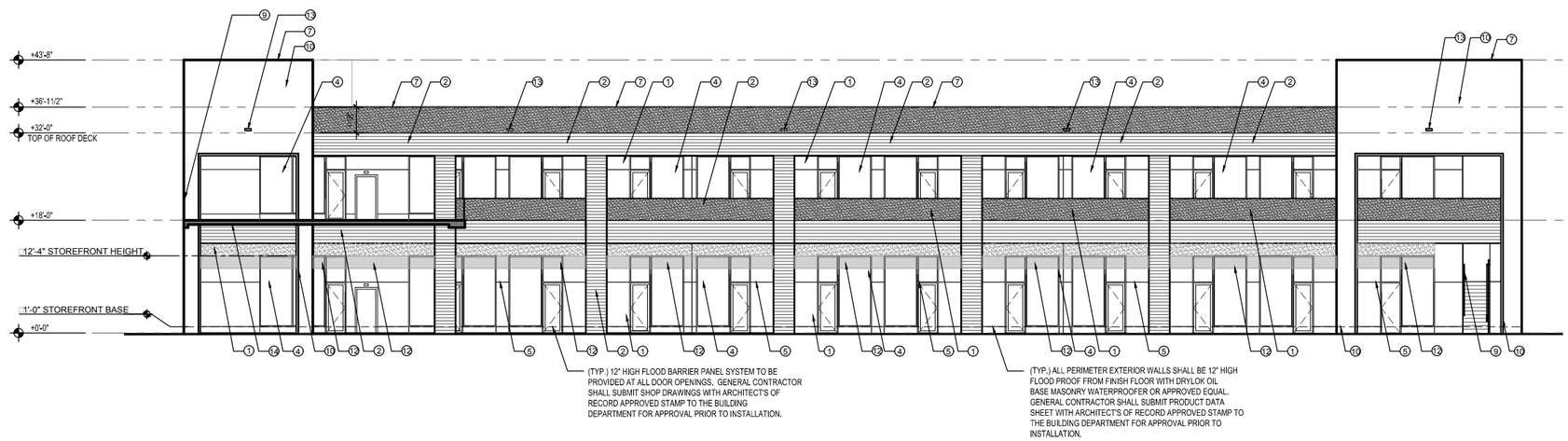
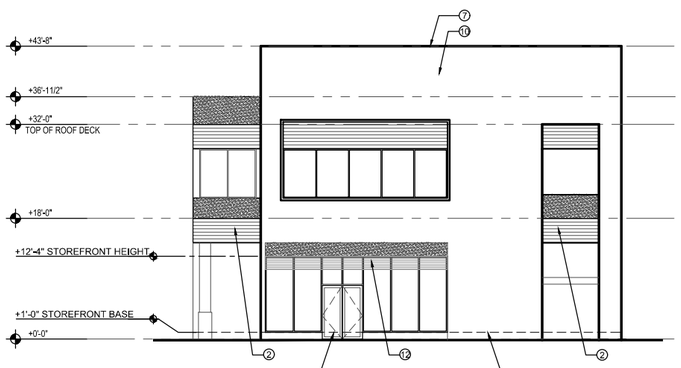


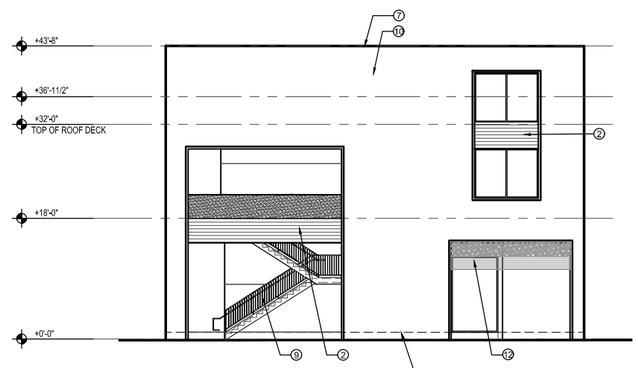
EAST (NORTH FEDERAL HIGHWAY) ELEVATION - BUILDING 1A
SCALE: 3/32"=1'-0"



WEST ELEVATION - BUILDING 1A
SCALE: 3/32"=1'-0"



NORTH (NE 8TH STREET) ELEVATION - BUILDING 1A
SCALE: 3/32"=1'-0"



SOUTH (NE 7TH STREET) ELEVATION - BUILDING 1A
SCALE: 3/32"=1'-0"

1. SIMULATED STUCCO FINISH
2. SIMULATED WOOD
3. BALCONY
4. STOREFRONT GLASS
5. TYPICAL STUCCO CONTROL JOINT
6. WALL MOUNTED EXTERIOR LIGHT FIXTURE (REFER TO ELECTRICAL DRAWINGS
7. METAL CAP, MIN. PARAPET HEIGHT SHALL BE 42" FROM TOP OF ROOF ELEVATION
8. CONCRETE PAINT FINISH
9. RAILING
10. SIMULATED SMOOTH STONE STUCCO FINISH
11. ALUMINUM PANEL
12. ALUMINUM GRILLE
13. ROOF SCUPPER
14. CONCRETE SLAB

LEGEND

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VILLAGE AT ATLANTIC SHORES II

N.E. 7TH STREET AND N. FEDERAL HIGHWAY
HALLANDALE BEACH, FLORIDA

CLIENT: ATLANTIC VILLAGE 2, LLC

REV	DATE	DESCRIPTION
1	06/13/17	DRC COMMENTS / REVISIONS
2	09/18/17	DRC COMMENTS / REVISIONS

DESIGN DELIVERABLE: **DRC SUBMITTAL**
ISSUE DATE: **03-16-17**

PROJECT NUMBER: **1338-160231**
DRAWN BY: FC
CHECKED BY: JS

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SHEET TITLE:
ELEVATIONS - BUILDING 1A

SHEET NUMBER:
A-201

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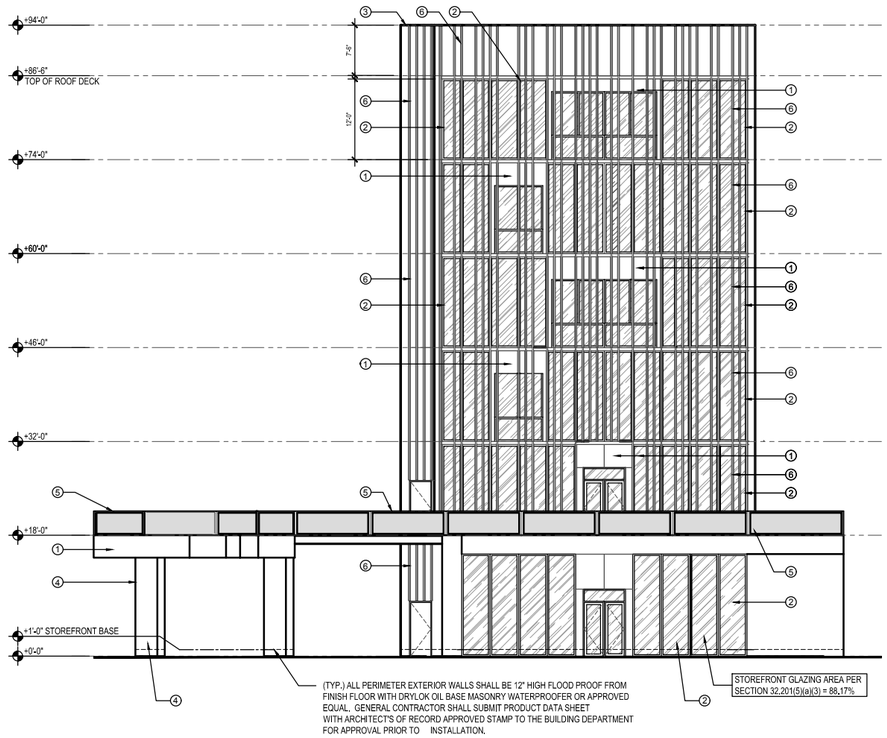
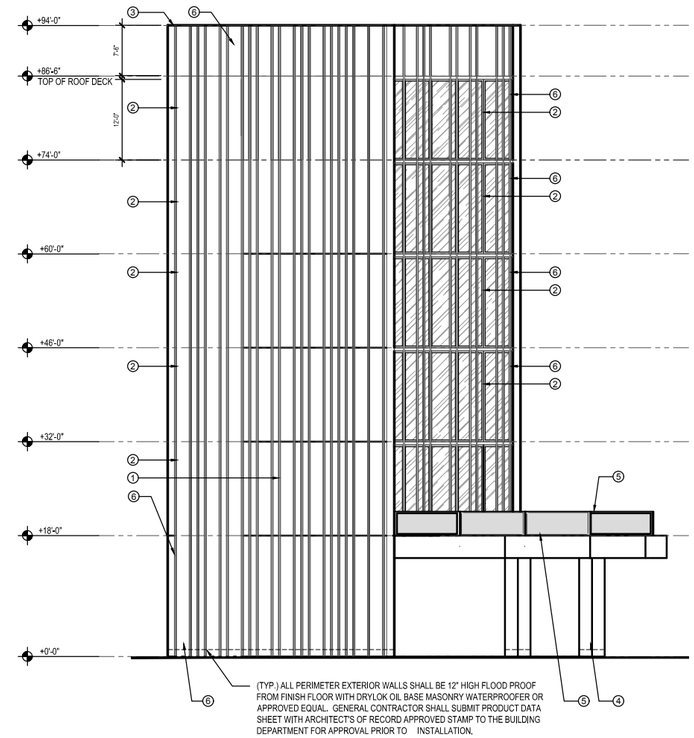
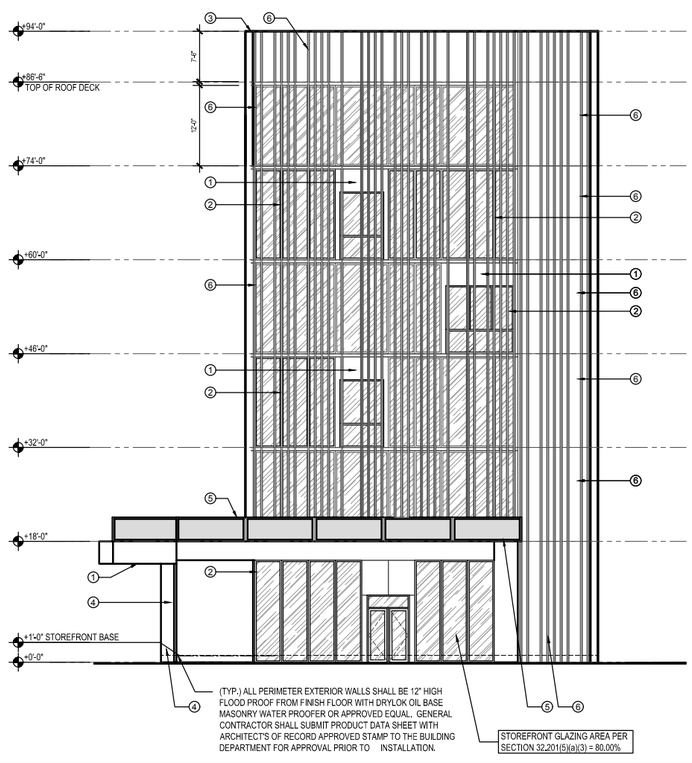


EAST ELEVATION (NORTH FEDERAL HIGHWAY) - BUILDING 1B
SCALE: 3/32"=1'-0"



SOUTH ELEVATION - BUILDING 1B
SCALE: 3/32"=1'-0"



NORTH ELEVATION (8TH STREET) - BUILDING 1B
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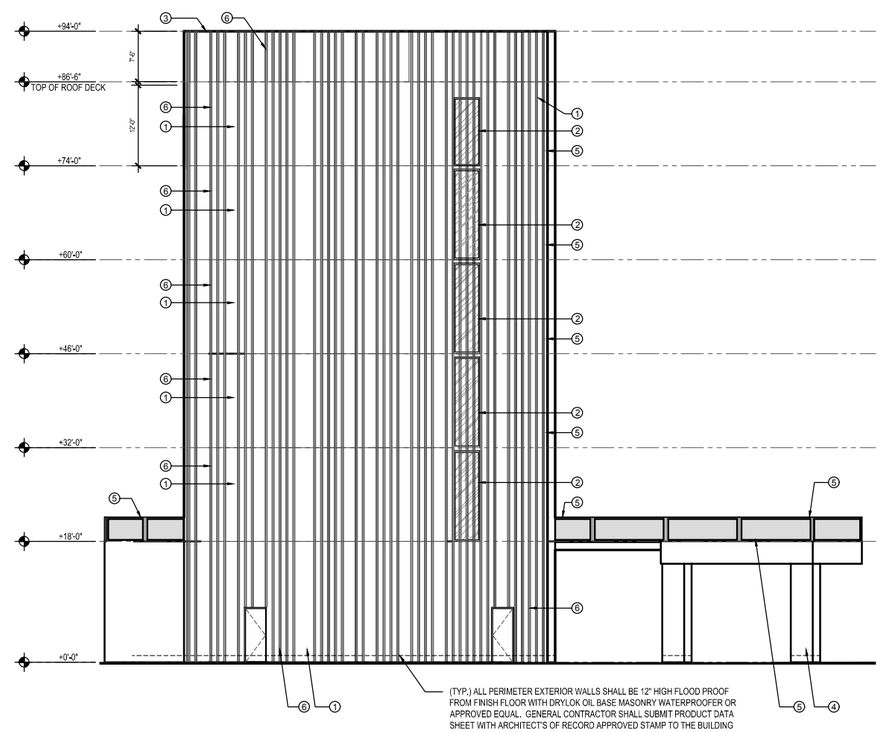

WEST ELEVATION - BUILDING 1B
SCALE: 3/32"=1'-0"

1. SIMULATED STUCCO FINISH
2. WINDOW WALL GLAZING SYSTEM
3. METAL CAP. MIN. PARAPET HEIGHT TO BE 42" FROM TOP OF ROOF ELEVATION.
4. CONCRETE PAINT FINISH
5. RAILING
6. DECORATIVE ALUMINUM FINS

LEGEND

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VILLAGE AT ATLANTIC SHORES II

N.E. 7TH STREET AND N. FEDERAL HIGHWAY
HALLANDALE BEACH, FLORIDA

CLIENT: ATLANTIC VILLAGE 2, LLC

REV	DATE	DESCRIPTION
1	06/15/17	DRC COMMENTS / REVISIONS
2	09/18/17	DRC COMMENTS / REVISIONS

DESIGN DELIVERABLE: **DRC SUBMITTAL**
ISSUE DATE: **03-16-17**

PROJECT NUMBER: **1338-160231**
DRAWN BY: FC
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SHEET TITLE:
ELEVATIONS BUILDING 1B

SHEET NUMBER:
A-202

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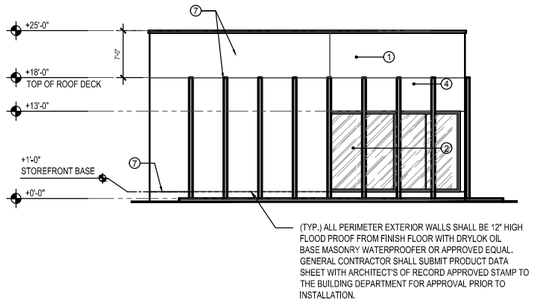
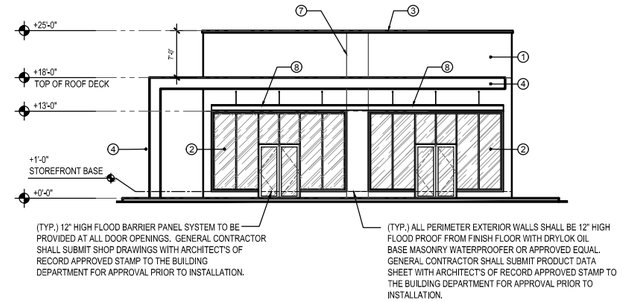
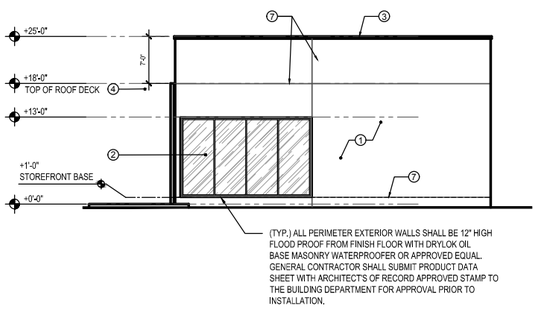


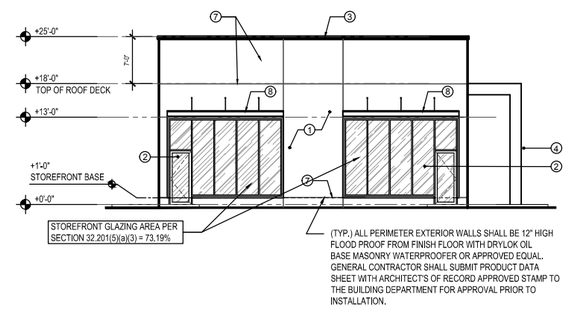
EAST ELEVATION - BUILDING 2
SCALE: 3/32"=1'-0"



NORTH ELEVATION - BUILDING 2
SCALE: 3/32"=1'-0"



WEST ELEVATION - BUILDING 2
SCALE: 3/32"=1'-0"



SOUTH ELEVATION - BUILDING 2
SCALE: 3/32"=1'-0"

1. SIMULATED STUCCO FINISH
2. STOREFRONT GLASS
3. METAL CAP. MIN PARAPET HEIGHT SHALL BE 42" FROM TOP OF ROOF ELEVATION
4. NOT USED
5. RAILING
6. DECORATIVE METAL PANELS
7. TYPICAL STUCCO CONTROL JOINT
8. WALL SUPPORTED ALUMINUM CANOPY MIN. 3'-0" PROJECTION

LEGEND

NOT USED

NOT USED

NOT USED

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AR 0011698
SEAL

LICENSE NO. AA26001863

VILLAGE AT ATLANTIC SHORES II

N.E. 7TH STREET AND N. FEDERAL HIGHWAY
HALLANDALE BEACH, FLORIDA

CLIENT: ATLANTIC VILLAGE 2, LLC

REV	DATE	DESCRIPTION
1	06/13/17	DRC COMMENTS / REVISIONS
2	09/18/17	DRC COMMENTS / REVISIONS

DESIGN DELIVERABLE: **DRC SUBMITTAL**
ISSUE DATE: **03-16-17**

PROJECT NUMBER: **1338-160231**
DRAWN BY: FC
CHECKED BY: JS

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SHEET TITLE:
ELEVATIONS - BUILDING 2

SHEET NUMBER:
A-203

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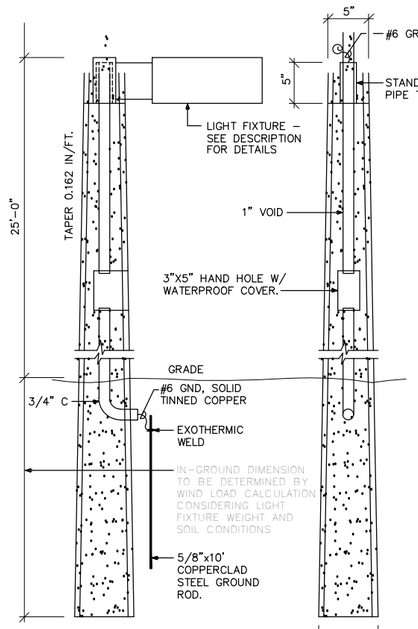
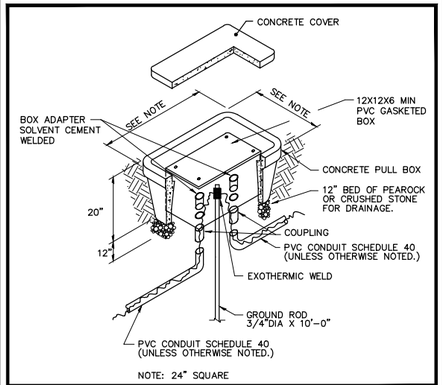


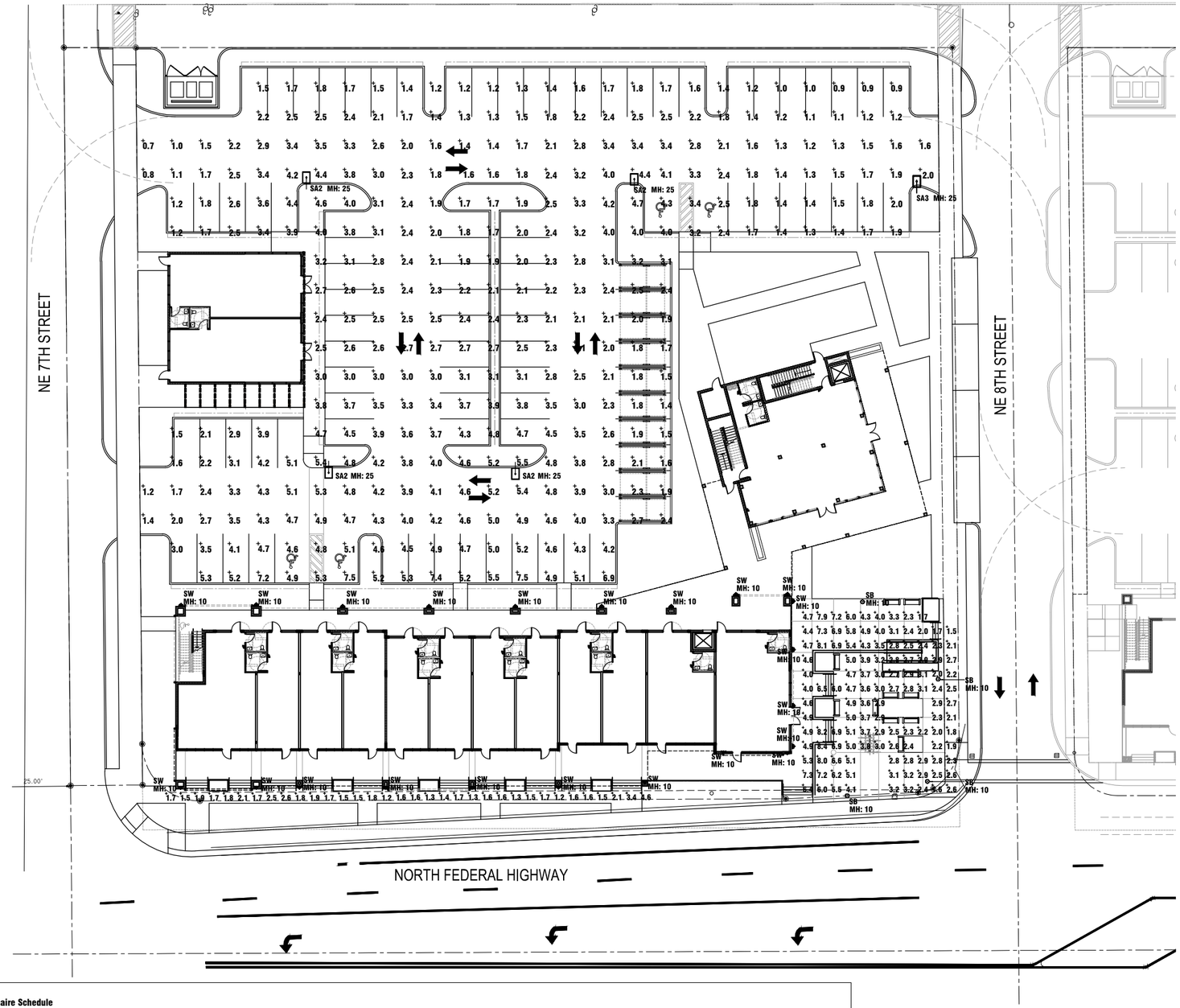
NOTE:
POLE SUPPLIER SHALL CERTIFY THAT POLE AND FIXTURE MEETS 145 MPH WIND LOAD CRITERIA AS REQUIRED BY FLORIDA BUILDING CODE 2010 AND ASCE 7-98 AND SHALL PROVIDE SIGNED & SEALED CALCULATIONS BY A REGISTERED FLORIDA ENGINEER.

TYPE 'SA' CONCRETE POLE DETAIL
NOT TO SCALE



NOTE: 24" SQUARE

TYPICAL HANDHOLE DETAIL
NOT TO SCALE



Luminaire Schedule

Project: VILLAGE AT ATLANTIC SHORES HALLANDALE BEACH, FL - SITE - PHASE II --- 3 - 21 - 2017

Symbol	Qty	Label	Description	MOUNTING	Lumens/Lamp	LLF	Lum. Watts	Total Watts
	4	SA2	VISIONAIRE VLX-1-T5W-160LC-7-4K-UNV	POLE:25' - 0" AFG	N.A.	0.810	336	1344
	1	SA3	VISIONAIRE VLX-1-T5W-64LC-7-4K-UNV	POLE:25' - 0" AFG	N.A.	0.810	139	139
	4	SB	LUMINIS ECLIPSE C120-100W	POLE:10' - 0" AFF	N.A.	0.810	100	400
	22	SW	LUMINAIRE SPC846-100W 4000K OP	WALL:10' - 0" AFF COF	N.A.	7.047	100	2200

Calculation Summary

Project: VILLAGE AT ATLANTIC SHORES HALLANDALE BEACH, FL - SITE - PHASE II --- 3 - 21 - 2017

Label	Avg	Max	Min	Avg/Min	Max/Min
CIVIC PLAZA	3.92	8.4	1.5	2.61	5.60
PARKING	2.89	7.5	0.7	4.13	10.71
SIDEWALK	1.81	4.6	1.2	1.51	3.83

PHOTOMETRIC SITE PLAN
SCALE: 1" = 20'

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VILLAGE AT ATLANTIC SHORES II

N.E. 7TH STREET AND N. FEDERAL HIGHWAY
HALLANDALE BEACH, FLORIDA

CLIENT: ATLANTIC VILLAGE 2, LLC

REV	DATE	DESCRIPTION
1	06/15/17	DRC COMMENTS / REVISIONS
2	09/18/17	DRC COMMENTS / REVISIONS

DESIGN DELIVERABLE: DRC SUBMITTAL
ISSUE DATE: 03-16-17

PROJECT NUMBER: 1338-160231
DRAWN BY: JS
CHECKED BY: JS

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SHEET TITLE:
PHOTOMETRIC SITE PLAN

SHEET NUMBER:
PH-101

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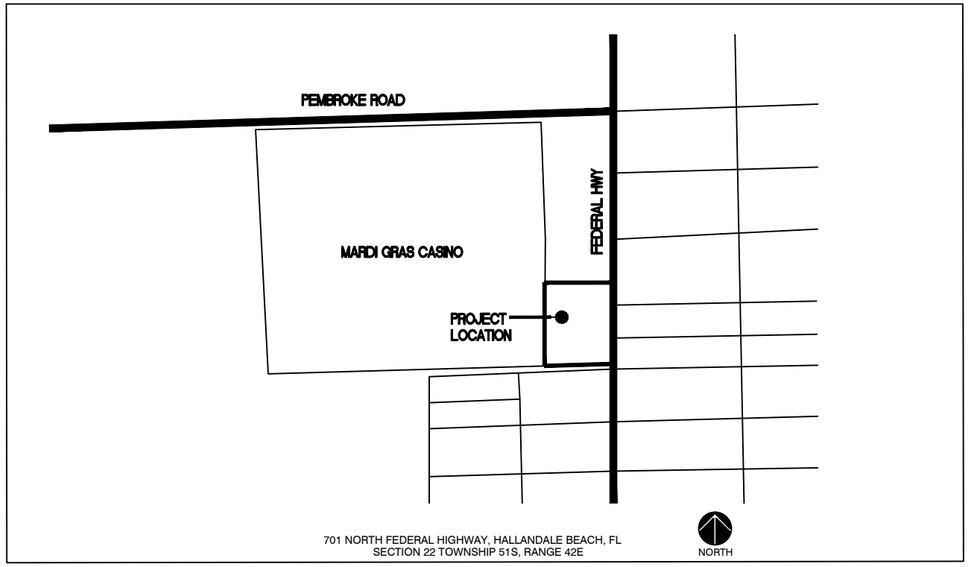
VILLAGE AT ATLANTIC SHORES II

HALLANDALE BEACH, FLORIDA



LOCATION MAP

NTS

FDOT NOTES:

DRIVEWAY PERMIT NUMBER 2017-A-491-____
STATE ROAD 5
SECTION NUMBER 86010
MILE POST 1.34

INDEX:

	COVERSHEET
C1	SIGNING AND MARKING PLAN
C2	PAVING, GRADING, AND DRAINAGE PLAN
C3	WATER AND SEWER PLAN
C4	PAVING, GRADING, AND DRAINAGE DETAILS
C5	WATER AND SEWER DETAILS
C6	GENERAL NOTES & SPECIFICATIONS

GOVERNING DESIGN STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED FY 2017-18 AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2017.

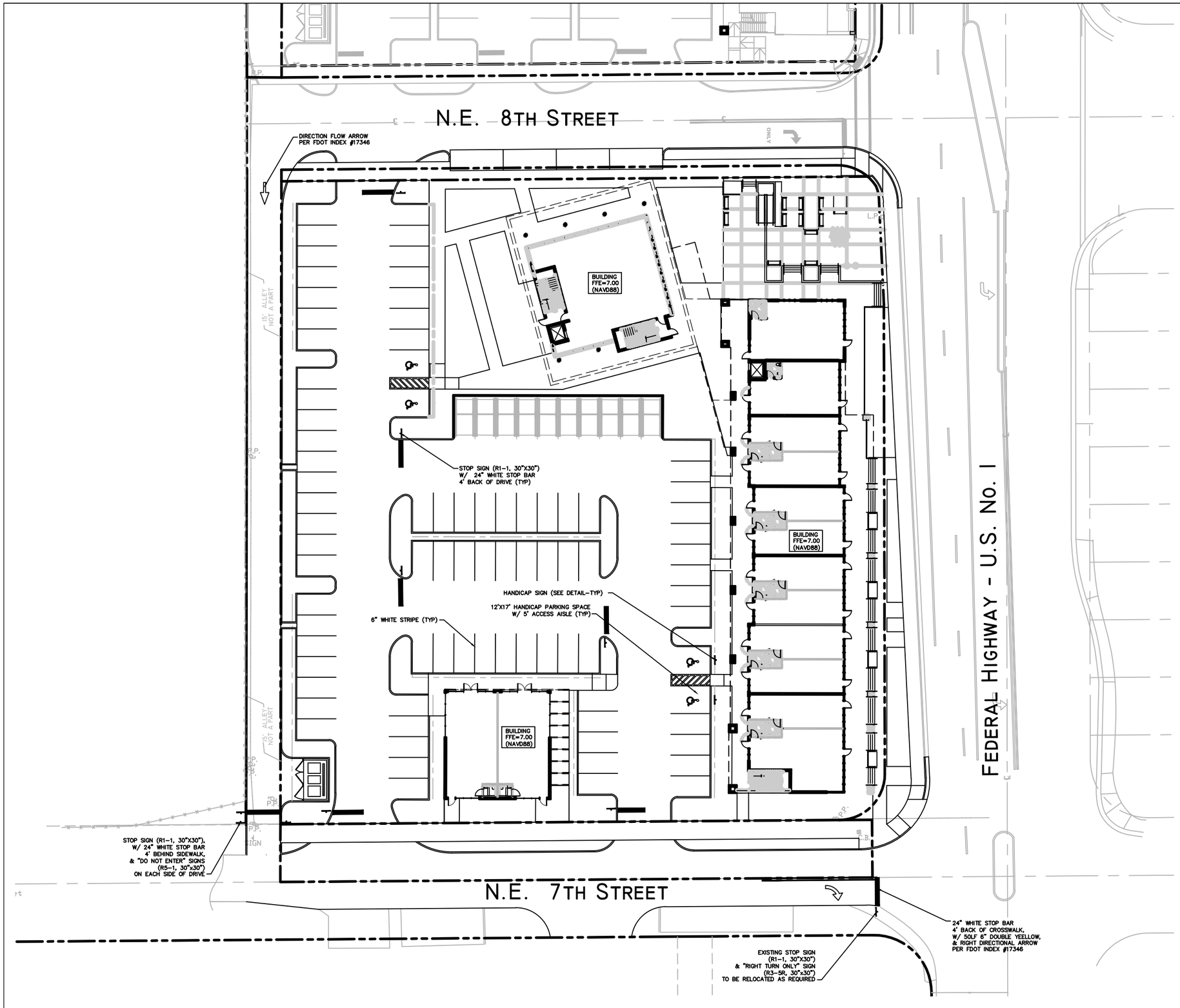
FOR DESIGN STANDARDS CLICK ON "DESIGN STANDARDS" AT THE FOLLOWING WEBSITE:
http://www.dot.state.fl.us/rddesign

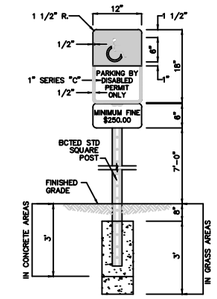
FLYNN ENGINEERING SERVICES, P.A.
CIVIL ENGINEERS

241 COMMERCIAL BLVD.
LAUDERDALE-BY-THE-SEA, FL 33308
EB# 6578

PHONE:(954) 522-1004
FAX: (954) 522-7630
www.flynnengineering.com

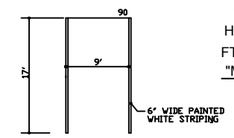
Job No.	15-1273.03
Plot Date	09/19/17
Drawn by	DRS
Proj. Engr.	DRS
Appr. by	DRS





NOTES:
1) SIGN MUST BE POSTED AND THE BOTTOM OF THE SIGN MUST BE AT LEAST 7'-0" ABOVE FINISHED GRADE.
2) LOCATE SIGN @ CENTERLINE AND HEAD OF EACH HANDICAP STALL WHERE APPLICABLE.
3) SIGNS IN CONCRETE AREAS ARE TO BE EMBEDDED FOR A DEPTH OF 3'

HANDICAPPED PARKING SIGN
FTP-25 W/ SUPPLEMENTAL 12"x6" "MINIMUM FINE □250.00" SIGN
N.T.S.



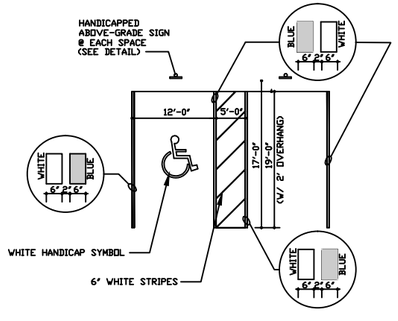
TYPICAL PARKING LAYOUT
N.T.S.

LEGEND:

- (0.00) PROPOSED ELEVATION
- 7.35 EXISTING ELEVATION
- PROPOSED CATCH BASIN
- PROPOSED PLUG
- TEE
- WATER METER
- DOUBLE DETECTOR CHECK W/ WAFER CHECK VALVE ON DOWNSTREAM SIDE
- REDUCED PRESSURE BACKFLOW PREVENTOR
- DIRECTIONAL FLOW ARROW AND GRAVITY SEWER
- PROPOSED MANHOLE
- W WATER MAIN
- FM SANITARY FORCE MAIN
- VALVE
- FIRE HYDRANT
- SIAMESE CONNECTION
- CLEANOUT
- EDGE OF PROPOSED PAVEMENT (ASPHALT)
- DIRECTION OF SURFACE DRAINAGE
- SAMPLE POINT
- W EXIST. WATER MAIN
- EXIST. UTILITY LINE TO BE REMOVED

PAVEMENT MARKING & SIGNAGE NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, EXCEPT FOR PARKING STALL STRIPING.
2. R1-1 SIGNS SHALL BE HIGH INTENSITY DIAMOND GRADE.
3. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD).
4. BLUE RPM'S REQUIRED IN THE CENTER OF THE NEAREST DRIVE ISLE ADJACENT TO FIRE HYDRANTS.
5. SIGNS SHALL BE MOUNTED ON BCTED STANDARD SQUARE POSTS.



TYPICAL HANDICAP PARKING LAYOUT
N.T.S.

NORTH

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www.flynnengineering.com
EB# 6578

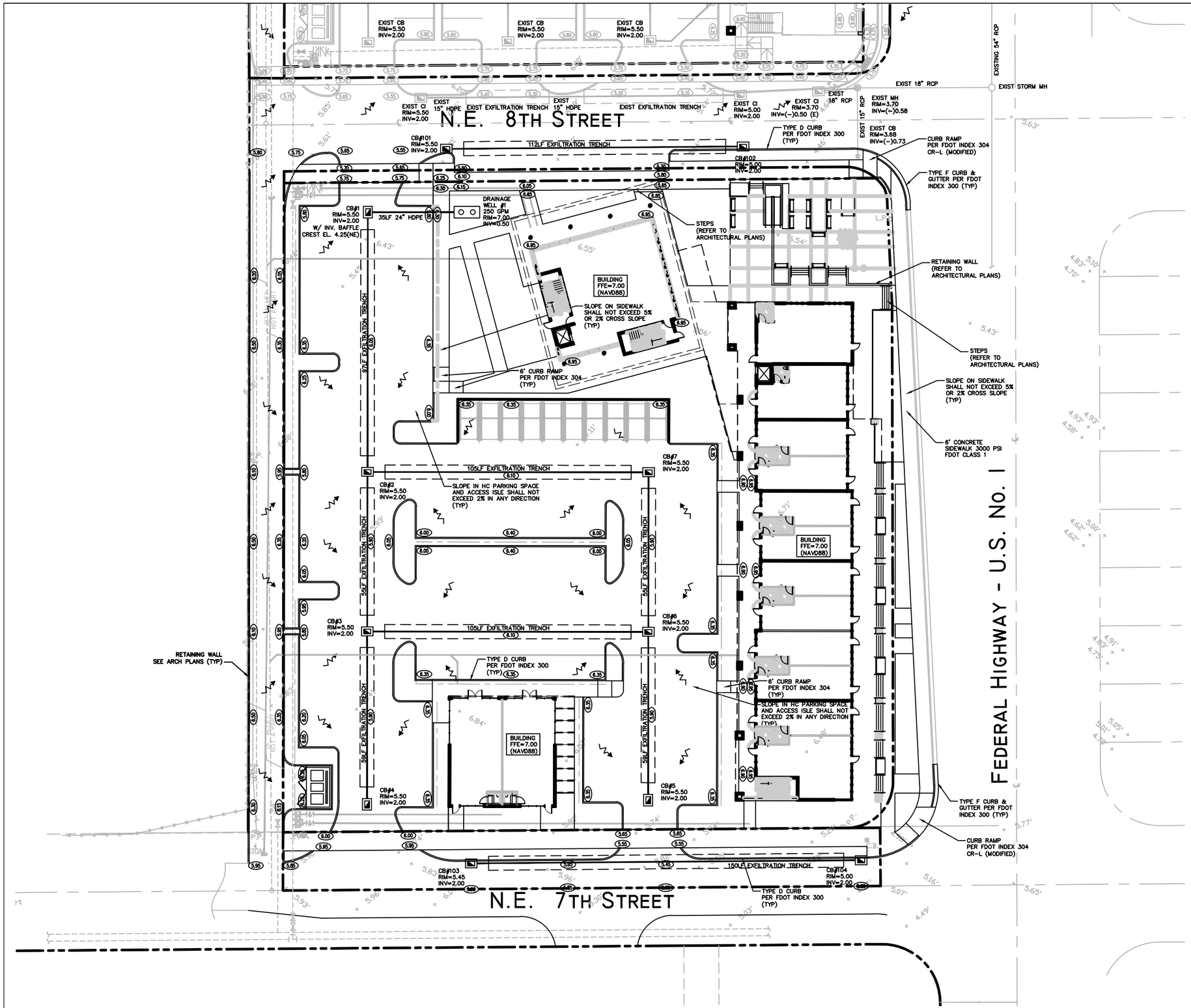
Sheet Title
SIGNAGE AND MARKING PLAN

Job Title
VILLAGE AT ATLANTIC SHORES II
701 NORTH FEDERAL HIGHWAY
CITY OF HALLANDALE BEACH, BROWARD COUNTY, FLORIDA 33009

Phase:
DRC
PLANS

Revisions

Scale: 1"=20.0'	Date 03/22/17
Job No. 15-1273.03	Plot Date 09/19/17
Drawn by DRS	Sheet No. C1
Proj. Engr. DRS	
Appr. by DRS	1 of 6



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811
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

VERTICAL DATUM CONVERSION

GRADING SHOWN UTILIZES N.A.V.D. 88

N.G.V.D. 29

1.5

N.A.V.D. 88

N.A.V.D. 88 = N.G.V.D. 29 - 1.5'
N.G.V.D. 29 = N.A.V.D. 88 + 1.5'

NPDES

ALL PROJECTS THAT WILL RESULT IN THE DISTURBANCE OF 1 OR MORE ACRES OF LAND CONTRACTORS ARE REQUIRED TO SUBMIT A STORM WATER NOTICE OF INTENT (DEP FORM 62-621.300(4)(b)) 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, NPDES STORMWATER PROGRAM, 2600 BLAIR STONE ROAD MAIL STATION 2510, TALLAHASSEE, FL 32399-2400. ADDITIONAL DETAILS ARE AVAILABLE AT WWW.DEP.STATE.FL.US/WATER/STORMWATER/NPDES

LEGEND:

- (0.00) PROPOSED ELEVATION
- 7.35 EXISTING ELEVATION
- PROPOSED CATCH BASIN
- PROPOSED PLUG
- TEE
- WATER METER
- DOUBLE DETECTOR CHECK W/ WAFER CHECK VALVE ON DOWNSTREAM SIDE
- REDUCED PRESSURE BACKFLOW PREVENTOR
- DIRECTIONAL FLOW ARROW AND GRAVITY SEWER
- PROPOSED MANHOLE
- -W- WATER MAIN
- -FM- SANITARY FORCE MAIN
- VALVE
- FIRE HYDRANT
- SIAMESE CONNECTION
- CLEANOUT
- EDGE OF PROPOSED PAVEMENT (ASPHALT)
- DIRECTION OF SURFACE DRAINAGE
- SAMPLE POINT
- -W- EXIST. WATER MAIN
- XXX EXIST. UTILITY LINE TO BE REMOVED

PAVING AND DRAINAGE NOTES:

1. ALL STORM DRAINAGE LINE FROM THE BLDG SHALL BE LAID @ 1.0% MINIMUM SLOPE UNLESS NOTED OTHERWISE ON PLANS.

2. CLEANOUTS ON STORM DRAINAGE LINES ARE TO BE ADJUSTED TO BE FLUSH W/FINISHED GRADE.

3. CONTRACTOR SHALL PROVIDE FITTINGS (WYES, TEE, REDUCERS, ETC.) AS REQUIRED TO FURNISH A COMPLETE WORKING SYSTEM BASED ON THE LAYOUT SHOWN ON THESE PLANS.

4. LANDSCAPED AREAS SHALL BE GRADED TO DRAIN TO THE CATCH BASIN INLETS. FIELD ADJUST GRADING AS REQUIRED.

5. SITE UTILITY CONTRACTOR SHALL COORDINATE WITH THE BUILDING PLUMBING CONTRACTOR FOR EXACT LOCATION OF CONNECTION POINTS BETWEEN THE BUILDING AND SITE WATER, SEWER AND DRAINAGE LINES (VERTICALLY AND HORIZONTALLY).

6. RECTANGULAR CATCH BASIN AND YARD DRAIN GRATES SHALL BE INSTALLED SUCH THAT THE LONG AXIS OF GRATE PARALLELS THE CLOSEST ADJACENT WALK, BLDG.,DRIVE WAY, PROPERTY LINE, OR ROADWAY.

7. COORDINATE LOCATION IN FIELD OF ALL CATCH BASINS & YARD DRAINS WITH LANDSCAPE CONTRACTOR TO AVOID CONFLICTS

8. CENTERLINE OF YARD DRAINS @ BASE OF DOWN SPOUTS MUST ALIGN WITH CENTERLINE OF DOWN SPOUT PRIOR TO FINAL ACCEPTANCE BY OWNER. REFERENCE ARCH. PLANS FOR EXACT LOCATION OF DOWN SPOUTS.

9. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER & LANDSCAPE ARCHITECT TO FIELD ADJUST GRADING & UNDERGROUND PIPING AS REQUIRED TO PRESERVE EXISTING TREES TO REMAIN.

10. CATCH BASINS LOCATED IN SWALES IN PARKING LOT SHALL BE CENTERED IN SWALE. UNLESS NOTED OTHERWISE.

11. EXISTING BROKEN SIDEWALKS ADJACENT TO THIS SITE TO BE REPAIRED.

12. SIDEWALK CONNECTIONS TO THE FDOT RIGHT-OF-WAY OF FEDERAL HIGHWAY (SR 5). REQUIRES A CONSTRUCTION JOINT AT THE ULTIMATE RIGHT-OF-WAY LINE AT EACH CONNECTION.

13. THIS PROPERTY LIES IN BOTH FLOOD ZONE AE, ELEV. = 7 NAVD & FLOOD ZONE X ON FIRM PANEL 12011C0732H, DATED 08/18/14.

BROWARD COUNTY 100 YR. FLOOD CONTOUR = ELEV. 5.00 NAVD.

BROWARD COUNTY 10 YR. FLOOD CONTOUR = ELEV. 3.50 NAVD.

AVERAGE WET SEASON WATER LEVEL = ELEV. 1.50 NAVD.

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Sheet Title
CONCEPTUAL PAVING AND DRAINAGE PLAN

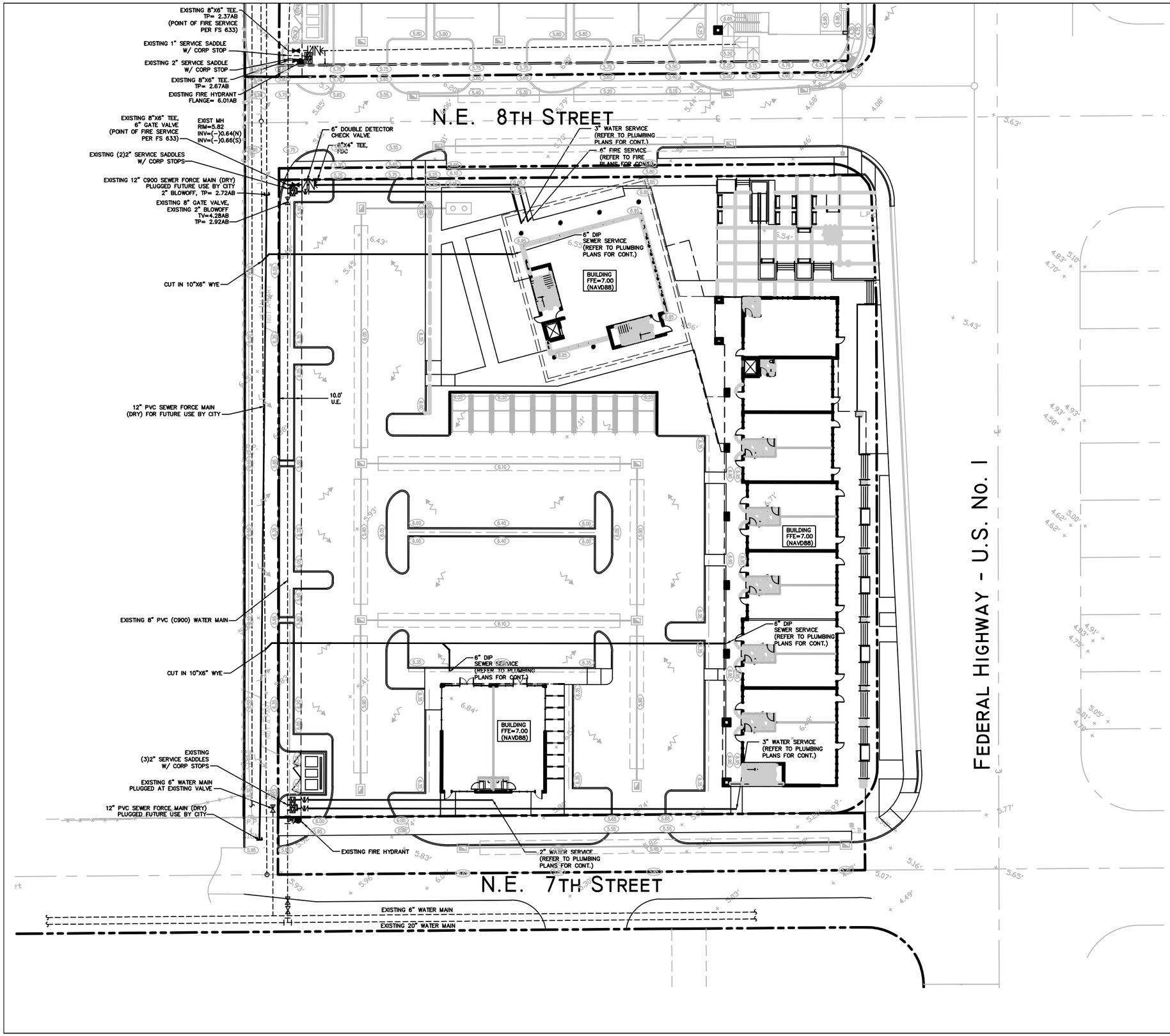
Job Title
VILLAGE AT ATLANTIC SHORES II

701 NORTH FEDERAL HIGHWAY
CITY OF HALLANDALE BEACH, BROWARD COUNTY, FLORIDA 33009

Phase:
DRC
PLANS

Revisions

Scale: 1"=20.0'	Date 03/22/17
Job No. 15-1273.03	Plot Date 09/19/17
Drawn by DRS	Sheet No. C2
Proj. Engr. DRS	
Appr. by DRS	2 of 6



WATER NOTES:

1. CONTRACTOR SHALL PROVIDE FITTINGS (WYES, TEE, REDUCERS, ETC.) AS REQUIRED TO FURNISH A COMPLETE WORKING SYSTEM BASED ON THE LAYOUT SHOWN ON THESE PLANS.

2. WATER AND SEWER MAINS MINIMUM DEPTH OF COVER TO BE: 30" FOR DIP AND 36" FOR PVC MAINS.

3. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE CITY UTILITY DEPT. ANY WATER MAIN CONNECTIONS. UTILITY CONNECTIONS AND SCHEDULE MUST BE APPROVED BY THE CITY PRIOR TO IMPLEMENTATION. THE CONTRACTOR IS REQUIRED TO PAY FOR ALL COSTS ASSOCIATED WITH THIS WORK REGARDLESS OF WHETHER OR NOT THE UTILITY OR THE CONTRACTOR PERFORMS THE WORK.

4. W.M./S.S. MAINS TO BE LOCATED 5' CLEAR OF ALL OBSTRUCTIONS, POLES, BOXES, CULVERTS, ETC. W.M./S.S. MAINS MUST BE LOCATED 5' FROM TREES. F.H.'S MUST HAVE A 7.5' CLEAR RADIUS.

5. PRESSURE TESTING AND CERTIFICATION SHALL FOLLOW THE BROWARD COUNTY HEALTH DEPARTMENT STANDARDS.

6. ALL UNDERGROUND UTILITIES TO BE REMOVED SHALL BE CAPPED OFF AT THE POINT NEAREST TO THE UTILITIES OR DRAINAGE LINES THAT WILL REMAIN IN SERVICE. NOTIFY THE ENGINEER OF RECORD BEFORE REMOVING ANY UTILITIES THAT ARE CURRENTLY IN SERVICE. THE CONTRACTOR SHALL NOT REMOVE ANY UTILITY SERVICE TO ANY EXISTING BUILDING THAT WILL REMAIN AND SHALL DIG UP AND COMPLETELY REMOVE AND/OR ABANDON ANY UTILITY SERVICE THAT IS NO LONGER REQUIRED. THE CONTRACTOR SHALL INFORM AND CONSULT THE ENGINEER OF RECORD PRIOR TO REMOVING ANY LINES.

7. CONTRACTOR SHALL VERIFY EXISTING WATER/SEWER MAIN LOCATION AND ELEVATION AND NOTIFY THE ENGINEER OF ANY DIFFERENCE FROM THE DESIGN PRIOR TO CONSTRUCTION AND/OR EXCAVATION.

LEGEND:

- (0.00) PROPOSED ELEVATION
- 7.35' EXISTING ELEVATION
- PROPOSED CATCH BASIN
- PROPOSED PLUG
- TEE
- WATER METER
- DOUBLE DETECTOR CHECK W/ WAFER CHECK VALVE ON DOWNSTREAM SIDE
- REDUCED PRESSURE BACKFLOW PREVENTOR
- DIRECTIONAL FLOW ARROW AND GRAVITY SEWER
- PROPOSED MANHOLE
- W WATER MAIN
- FM SANITARY FORCE MAIN
- VALVE
- FIRE HYDRANT
- SIAMESE CONNECTION
- CLEANOUT
- EDGE OF PROPOSED PAVEMENT (ASPHALT)
- DIRECTION OF SURFACE DRAINAGE
- SAMPLE POINT
- W EXIST. WATER MAIN
- EXIST. UTILITY LINE TO BE REMOVED

VERTICAL DATUM CONVERSION

GRADING SHOWN UTILIZES N.A.V.D. 88

N.G.V.D. 29

1.5

N.A.V.D. 88

N.A.V.D. 88 = N.G.V.D. 29 - 1.5'
N.G.V.D. 29 = N.A.V.D. 88 + 1.5'

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WATER AND SEWER FLOW:

1. NO CURRENT EXISTING WATER AND SEWER FLOW FROM THE SITE.

2. PROPOSED WATER AND SEWER FLOW FROM THE SITE:
   8,524 SF RESTAURANT w/ 250 SEATS @ 40 GPD/SEAT = 10,000 GPD
   18,264 SF COMMERCIAL @ 0.1 GPD/SF = 1,826.4 GPD
   10,596 SF OFFICE w/ .15 GPD/SF = 1,589.4 GPD
   IRRIGATION @ 450 GPD
   TOTAL PROPOSED FLOW = 13,895.8 GPD

4. PEAK WATER DEMAND FOR THE SITE:
   13,895.8 GPD X 2.5 PEAK FACTOR = 34,739.5 GPD

5. PEAK SEWER FLOW FROM THE SITE:
   13,445.8 GPD X 3.0 PEAK FACTOR = 40,337.4 GPD

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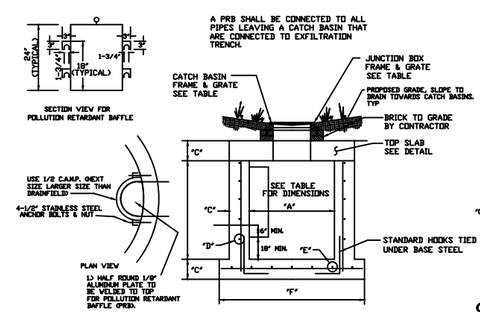
SUMMARY OF DRAINAGE STRUCTURES

STRUCTURE #	TYPE	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	U.S.F. # OR EQUAL FRAME	U.S.F. # OR EQUAL GRATE
CB# 2-7	"J"	4'-0" @	8'	8'	#4 @ 12" CCEW	#4 @ 12" CCEW	6'-4" @	5'-4" @	#4 @ 6" CCEW	4155	6209 CAST IRON
CB#	"C"	24"	37"							4155	6209 CAST IRON
MH#	"J"	5'-0" @	8'	8'	#5 @ 12" CCEW	#5 @ 12" CCEW	7'-4" @	6'-4" @	#5 @ 8" CCEW	420	TYPE "C"
CB# 1	"D"	6'-0"	8'	8'	#5 @ 6" CCEW	#5 @ 6" CCEW	8'-4" @	7'-4" @	#5 @ 6" CCEW	4615	6210 CAST IRON
CI#101-104	"J"	4'-0" @	8'	8'	#4 @ 12" CCEW	#4 @ 12" CCEW	6'-4" @	5'-4" @	#4 @ 6" CCEW	5115	6220 CAST IRON

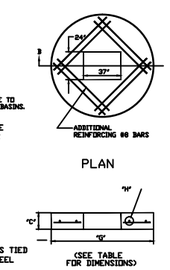
NOTE: ALL DRAINAGE STRUCTURES SHALL HAVE A 2' SUMP



NOTE:
ALL CATCH BASINS LEADING TO EXFILTRATION TRENCH SHALL HAVE POLLUTION RETARDANT BAFFLE (PRB).

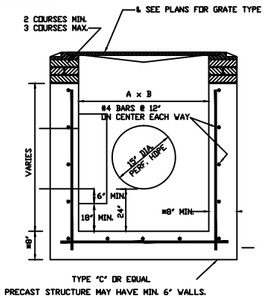
MANHOLE/CATCH BASIN TYPE "J"

N.T.S.



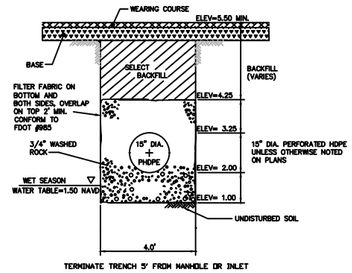
CATCH BASIN TOP SLAB

N.T.S.



CATCH BASIN DETAIL TYPE "C"

N.T.S.



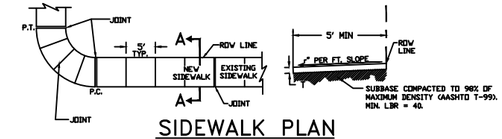
EXFILTRATION TRENCH DETAIL

N.T.S.

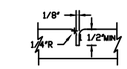
	SPACING OF REQUIRED ROADWAY, PARKING AREA AND UTILITY TRENCH TESTS							
	F.B.V.		DENSITY		L.B.R.		THICKNESS	
	MAX. SPACING		MAX. SPACING		MAX. SPACING		MAX. SPACING	
	LIN. FEET	SQ. FEET	LIN. FEET	SQ. FEET	LIN. FEET	SQ. FEET	LIN. FEET	SQ. FEET
COMPACTED OR STABILIZED SUBGRADE.	200	10,000	200	10,000	200	10,000	200	10,000
LIMEROCK BASE	—	—	200	10,000	—	—	200	10,000
ASPHALT	—	—	—	—	—	—	PER. INSP.	PER. INSP.
UTILITY TRENCH	—	—	200	—	—	—	—	—

ALL TESTING SHALL BE TAKEN IN A STAGGED SAMPLING PATTERN FROM A POINT 12" INSIDE THE LEFT EDGE OF THE ITEM TESTED TO THE CENTER, TO A POINT 12" INSIDE THE RIGHT EDGE.

COMPACTION TEST SCHEDULE



SIDEWALK PLAN



JOINT DETAIL

CONCRETE PAVEMENT & SIDEWALK JOINTS

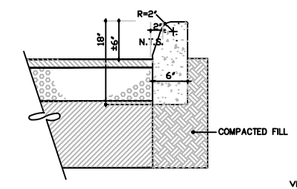
TABLE OF SIDEWALK JOINTS	
	LOCATION
	P.C. AND P.T. CURVES, JUNCTION OF EXISTING AND NEW SIDEWALKS.
	5'-0" CENTER TO CENTER ON SIDEWALKS.
	15' CENTER TO CENTER MAX. FOR CONCRETE PAVEMENT UNLESS OTHERWISE INDICATED.

1. PROVIDE 1/8" CONTRACTION JOINTS AT 5' C.C. WITH A MINIMUM DEPTH 1 1/2", EDGED WITH A 1/4" RADIUS DEEP WITHIN THE FOLLOWING TIME PERIODS: JOINTS AT NOT MORE THAN 30' INTERVALS - WITHIN 12 HOURS AFTER FINISHING. REMAINING JOINTS WITHIN 96 HOURS AFTER FINISHING.
2. PROVIDE 6" THICK CONCRETE FOR ALL SIDEWALKS.
3. NO REINFORCEMENTS SHALL BE USED IN THE SIDEWALKS.
4. CONCRETE TO BE 3,000 PSI IN 28 DAYS.
5. CURE ALL CONCRETE WITH CLEAN SAND, PLASTIC MEMBRANE OR OTHER APPROVED METHOD.
6. CONCRETE PAVEMENT FOUNDATION SHALL BE COMPACTED TO A FIRM, EVEN SURFACE, TRUE TO GRADE AND CROSS SECTION, AND SHALL BE MOIST AT THE TIME CONCRETE IS PLACED
7. ALL CONSTRUCTION SHALL CONFORM TO LOCAL CONSTRUCTION CODES AND STANDARDS

NOTE:
CONCRETE TO BE CLASS-1 3000 P.S.I.

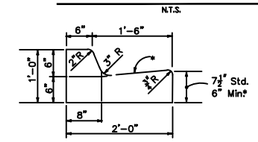
CONCRETE PAVEMENT & SIDEWALK DETAIL

NTS



TYPE "D" CURB DETAIL

N.T.S.



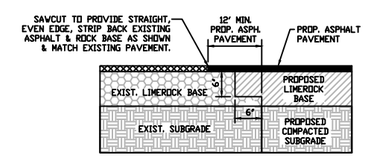
TYPE F

*When used on high side of roadways, the cross slope of the gutter shall match the cross slope of the adjacent pavement. The thickness of the lip shall be 6", unless otherwise shown on plans.

CURB PAD : 4" LIMEROCK BASE COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180). LIMEROCK BASE TO CONFORM WITH THE REQUIREMENTS OF F.D.O.T. SPECIFICATION SECTIONS 200 & 911. MINIMUM L.B.R. = 100

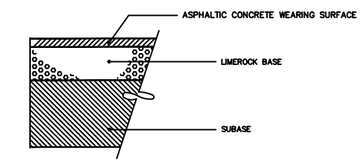
CONCRETE TYPE "F" CURB AND GUTTER

N.T.S.



F.D.O.T. PAVEMENT CONNECTION DETAIL

N.T.S.



ASPHALTIC CONCRETE VEHICULAR SURFACE COURSE : 1.5" ASPHALTIC CONCRETE WEARING SURFACE, F.D.O.T. TYPE S. SURFACE COURSE SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS SECTIONS 330 & 331 TO BE PLACED IN TWO 3/4" LIFTS OF S-III.

PRIME & TACK COAT : PRIME & TACK COAT FOR THE LIMEROCK BASE COURSE SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS SECTION 300.
APPLICATION RATES - PRIME COAT-0.25 GALLONS PER SQ. YD.
TACK COAT-0.08 GALLONS PER SQ. YD.

BASE : 6" LIMEROCK BASE COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180). MINIMUM L.B.R. = 100

SUBBASE : 12" SUBBASE COMPACTED TO 95% OF MAXIMUM DENSITY (AASHTO T-180). MINIMUM L.B.R. = 40

PAVEMENT DETAIL (TO BE USED ON-SITE)

N.T.S.

ASPHALTIC CONCRETE VEHICULAR SURFACE COURSE : 1.5" ASPHALTIC CONCRETE WEARING SURFACE, F.D.O.T. TYPE S. SURFACE COURSE SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS SECTIONS 330 & 331 TO BE PLACED IN TWO 3/4" LIFTS OF S-III.

PRIME & TACK COAT : PRIME & TACK COAT FOR THE LIMEROCK BASE COURSE SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS SECTION 300.
APPLICATION RATES - PRIME COAT-0.25 GALLONS PER SQ. YD.
TACK COAT-0.08 GALLONS PER SQ. YD.

BASE : 8" LIMEROCK BASE COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180). MINIMUM L.B.R. = 100

SUBBASE : 12" SUBBASE COMPACTED TO 95% OF MAXIMUM DENSITY (AASHTO T-180). MINIMUM L.B.R. = 40

PAVEMENT DETAIL (TO BE USED IN CITY R/W)

N.T.S.

ASPHALT FRICTION COURSE : 1.5" ASPHALT FRICTION COURSE, F.D.O.T. TYPE FC-12.5. FRICTION COURSE SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS SECTIONS 330 & 334

ASPHALT STRUCTURE COURSE : 1.5" ASPHALT STRUCTURE COURSE, F.D.O.T. TYPE SP-12.5. SURFACE COURSE SHALL CONFORM TO THE REQUIREMENTS OF .D.O.T. STANDARD SPECIFICATIONS SECTIONS 330 & 334

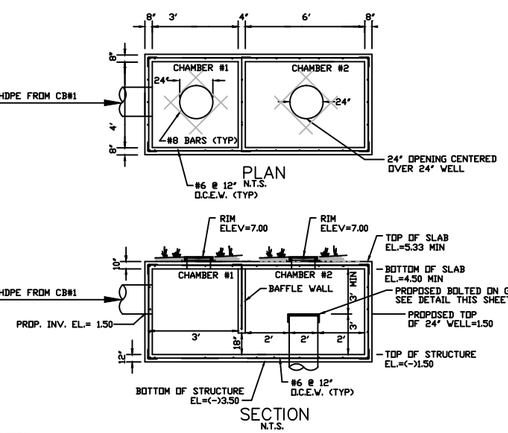
PRIME & TACK COAT : PRIME & TACK COAT FOR THE LIMEROCK BASE COURSE SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS SECTION 300.
APPLICATION RATES - PRIME COAT-0.25 GALLONS PER SQ. YD.
TACK COAT-0.08 GALLONS PER SQ. YD.

BASE : 12" LIMEROCK BASE COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180). MINIMUM L.B.R. = 100
TO BE PLACED IN TWO SEPARATE (2) 6" LIFTS
BASE TO CONFORM TO THE REQUIREMENTS OF F.D.O.T. SPECIFICATION SECTION 200.

SUBBASE : 12" SUBBASE COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180). MINIMUM L.B.R. = 40
SUBGRADE TO CONFORM TO THE REQUIREMENTS OF F.D.O.T. SPECIFICATION SECTION 160.

FDOT PAVEMENT DETAIL (TO BE USED IN FDOT R/W)

N.T.S.

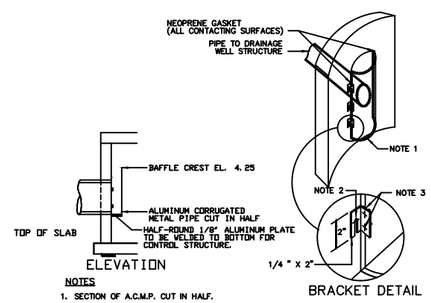


NOTES

1. TOP SLAB REINFORCEMENT TO BE #7 BARS @ 6" O.C.E.W. WITH ADDITIONAL #8 BARS AROUND OPENINGS.
2. PLACEMENT OF RING AND COVER ACCESSING EACH CHAMBER SHALL BE AS SHOWN ABOVE. EACH CHAMBER SHALL HAVE U.S.F. RING AND COVER #360
3. TOP SLAB OPENINGS SHALL BE AS REQUIRED BASED UPON INSTALLATION OF RING AND COVER.

CONTROL STRUCTURE AND DRAINAGE WELL #1 CAGE DETAIL

N.T.S.

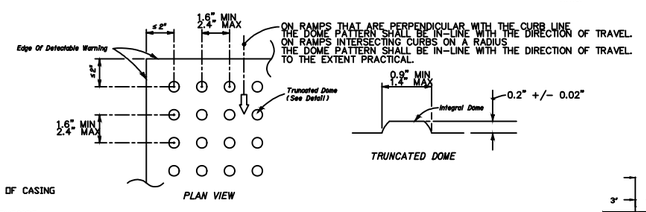


NOTES

1. SECTION OF A.C.M.P. CUT IN HALF.
2. 1/2" STAINLESS STEEL ANCHOR BOLTS & NUTS
3. WELD OR 2-1/4" THRU BOLTS.
4. BOTTOM OF BAFFLE TO BE MOUNTED AT INVERT OF PIPE.

INVERTED BAFFLE DETAIL IN STRUCTURES PRIOR TO DRAINAGE WELLS (CB#1)

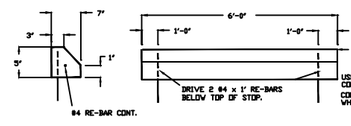
N.T.S.



BASE TO BASE SPACING SHALL BE 0.65" MINIMUM SPACING BETWEEN DOMES.

CURB RAMP DETECTABLE WARNING

NOTE: FOR PUBLIC CURB RAMP DETAILS REFERENCE F.D.O.T. INDEX NO. 0304, SHEETS 6 TO 6, 2010 INTERIM DESIGN STANDARDS REVISED 01-01-11.

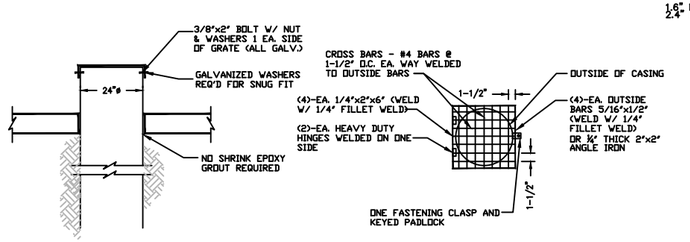


WHEEL STOP DETAIL

N.T.S.

DRAINAGE WELL NOTES:

1. DRAINAGE WELLS SHALL HAVE A MIN. COMBINED CAPACITY OF 250 GPM PER FOOT OF AVAILABLE HEAD.
2. WELL DRILLER SHALL OBTAIN AN FDEP PERMIT AND PROVIDE BCELBPD AND THE ENGINEER WITH CERTIFICATION OF CONSTRUCTION COMPLETTION & REPORT AS REQUIRED BY PERMIT
3. GRATE TO BE HOT DIP GALVANIZED AFTER FABRICATION. COST OF GRATE AND NECESSARY MATERIALS AND LABOR TO BE INCLUDED W/ COST OF CASING.
4. THE CERTIFIED WELL DRILLER SHALL DEVELOP THE WELL TO A DEPTH WHERE THE WATER CONTAINS A MIN. OF 10,000 PPM OF TOTAL DISSOLVED SOLIDS AND 1,500 PPM CHLORIDES.
5. CONTRACTOR SHALL PROVIDE A BASE BID FOR THE EXPECTED WELL DEPTH , PROVIDED BY WELL DRILLER, WITH AN ADD/ DEDUCT FOR EVERY FOOT ABOVE OR BELOW THE BASE BID. THE FINAL WELL DEPTH SHALL BE WITHIN 25% OF THE BASE BID.



DRAINAGE WELL GRATE DETAIL

N.T.S.

ELEVATIONS SHOWN ON THIS PLAN ARE IN NAVD 88 DATUM

Sep 19, 2017 - 12:01pm

Drawing name: F:\2015 Jobs\15-1273.03 Atlantic Shores Phase 2\15-1273.03 PGDD.dwg

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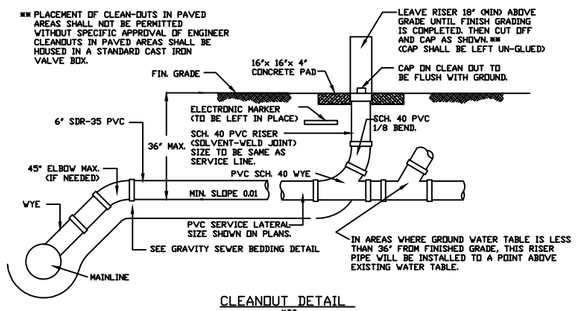
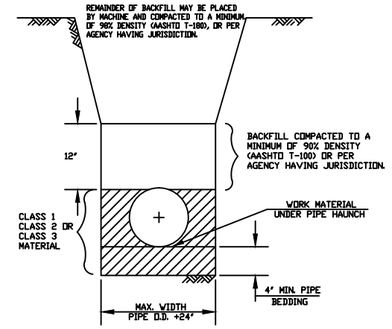
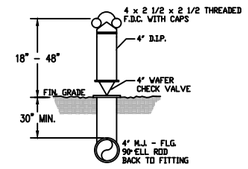


CLEANOUT DETAIL
N.T.S.



NOTE:
BLACK STEEL PIPE, SCHEDULE 80, COATED WITH BITUMASTIC AT LEAST 30" BELOW & 6" ABOVE FINISH GRADE. A STEEL DRIVE SHOE IS REQUIRED WITH A 6' LEAD BELOW IT.



FIRE DEPT. CONNECTION DETAIL
N.T.S.

NOTE:
CLASS 1 MATERIAL - ANGULAR GRADED STONE SUCH AS CORAL, CRUSHED STONE, OR CRUSHED SHELLS OR BEDDING ROCK (100% PASSING 1" SIEVE)

CLASS 2 MATERIAL - COURSE SAND AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF -" WITH SMALL PERCENTAGE OF FINES COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR DENSITY.

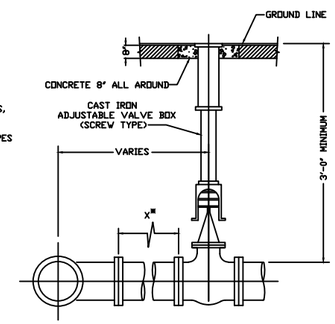
CLASS 3 MATERIAL - FINE SAND AND CLAYEY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES, COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR DENSITY. INCLUDED IN CLASS 3 ARE EXISTING SOIL TYPES CLASSIFIED AS SELECT BACKFILL.

IF CLASS 1 MATERIAL IS USED FOR BEDDING, IT MUST BE USED FOR THE ENTIRE EMBEDMENT.

A DRY TRENCH SHALL BE MAINTAINED WHEN USING CLASS 2 AND CLASS 3 MATERIAL

TRENCH SECTION
N.T.S.

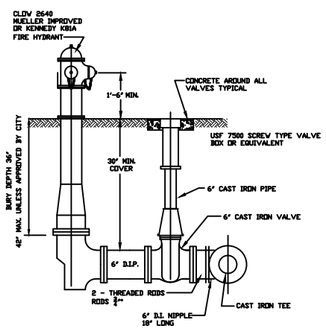
PAVEMENT RESTORATION TO BE IN ACCORDANCE WITH FDOT STANDARD INDEX 307 FOR FLEXIBLE PAVEMENT CUT.



USE TIE RODS, RESTRAINED OR HARNESSED JOINTS WHERE "X" IS LESS THAN 16'-0"

* NOTE:
1. CONCRETE COLLAR IS NOT REQUIRED WHEN VALVE IS LOCATED WITHIN NEW PAVEMENT.

TYPICAL VALVE SETTING
NTS



USE SAME VALVE BOX DETAIL FOR GATE VALVES.
ALL HYDRANTS MUST BE TRAFFIC RATED, WITH BREAK AWAY BARREL.

TYPICAL FIRE HYDRANT ASSEMBLY
NTS

* NOTE:
BACK-FLOW PREVENTION ASSEMBLIES LARGER THAN 2" DIAMETER SHALL BE SUPPORTED BY PIPE SUPPORTS EMBEDDED IN A CONCRETE PAD. CONCRETE PAD WILL BE SIZED TO COVER THE GROUND AREA BETWEEN THE RISERS, FOUR (4) INCHES FROM EACH RISER, AND SIX (6) INCHES BEYOND THE VERTICAL LINE OF THE ASSEMBLY ITSELF.

PIPE SUPPORTS WILL BE MADE TO CRADLE THE VALVE ON EACH SIDE OF THE CHECK VALVES, WITHOUT INTERFERING WITH THE INSERTION OR REMOVAL OF THE BOLTS ON THE FLANGE.

A. REDUCED PRESSURE PRINCIPLE OR DETECTOR DOUBLE-CHECK VALVE OR DOUBLE-CHECK VALVE ASSEMBLY, WITH OS & Y VALVES AS PROVIDED BY MANUFACTURER.

B. RISER SHALL BE COPPER PIPE, TYPE K- HARD TEMPER, OR BLACK IRON, OF APPROPRIATE SIZE.

C. IF DISSIMILAR METALS ARE USED, THE PIPING WILL BE JOINED TO THE ASSEMBLY WITH A DIELECTRIC COUPLING OR FLANGE TO PREVENT ELECTROLYSIS.

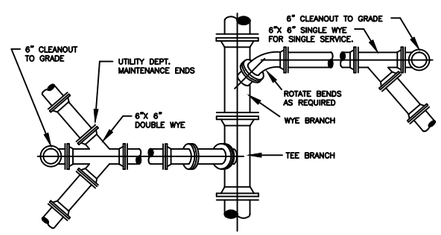
D. RISER SHALL BE JOINED TO THE WATER LINE ON THE HORIZONTAL RUN. IF DISSIMILAR METALS ARE INVOLVED, A DIELECTRIC COUPLING WILL BE USED TO PREVENT ELECTROLYSIS.

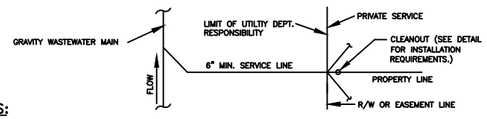
E. METER ASSEMBLY ON THE DETECTOR DOUBLE CHECK VALVE ASSEMBLY ONLY.

F. CHAIN AND LOCK OS & Y VALVES IN OPEN POSITION.

G. PAINT ALL ABOVE GROUND PIPING AND BACKFLOW PREVENTORS WITH APPROVED PAINT. SUBMIT PAINT SAMPLES TO ARCHITECT FOR APPROVAL.

DOUBLE CHECK DETECTOR ASSEMBLY AND DOUBLE CHECK BACKFLOW PREVENTER
NTS 2-1/2" AND ABOVE

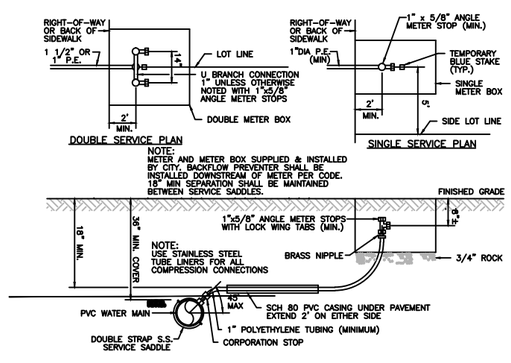




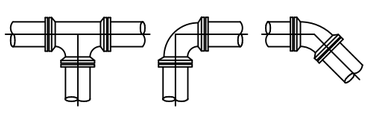
NOTES:

1. SERVICE LATERALS SHALL TERMINATE AT PROPERTY LINE AT A DEPTH OF 3 FEET.
2. CLEANOUT IS TO BE INSTALLED PER DEPARTMENT STANDARDS PRIOR TO WATER METER INSTALLATION. AN INSPECTION OF CONNECTION INTO THE DEPARTMENTS LATERAL IS REQUIRED PRIOR TO WATER METER RELEASE.
3. WASTEWATER MAIN WYE BRANCH TO MATCH MAIN PIPE MATERIAL.
4. NO 90° BENDS SHALL BE USED FOR WASTEWATER SERVICE AND CLEANOUT INSTALLATION.
5. CLEANOUTS DESIGNATING THE END OF THE DEPARTMENT'S MAINTENANCE RESPONSIBILITY SHALL BE LOCATED WITHIN AN UTILITY EASEMENT OR RIGHT-OF WAY DEDICATED FOR UTILITIES.
6. THE DEVELOPER/PROPERTY OWNER OR ASSIGNEE SHALL BE RESPONSIBLE FOR CLEANOUT INSTALLATION PRIOR TO WATER METER INSTALLATION AS SPECIFIED BY THE DEPARTMENT.

TYPICAL WASTEWATER SERVICE CONNECTION
N.T.S.



TYPICAL SINGLE & DOUBLE SERVICE CONNECTION

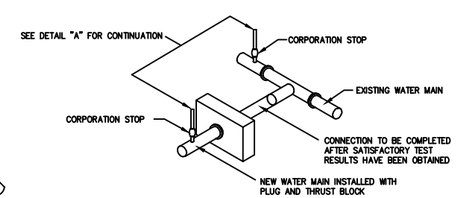


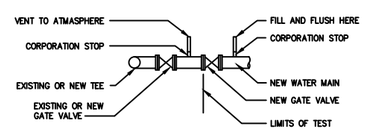
TEE & WYE 90° BEND 45° & 22 1/2° BEND

RESTRAINED PIPE LENGTH (LINEAL FEET)					
PIPE SIZE	TEE & WYE	90°BEND	45°BEND	22 1/2°BEND	11 1/4°BEND
6"	27	27	16	9	5
8"	34	34	20	11	6
10"	41	41	24	14	7
12"	48	48	28	16	8
14"	55	55	32	18	10
16"	62	62	35	20	11
18"	69	69	39	22	12
20"	75	75	42	24	13
24"	87	87	49	27	14
30"	104	104	57	31	17
36"	120	120	65	35	19
42"	134	134	72	39	21
48"	147	147	79	42	22
54"	160	160	85	45	24

NOTE:
THE FIGURES IN THIS TABLE ARE BASED ON 150 PSI TEST PRESSURE WITH 2.5 FEET OF COVER AND 2000 POUNDS PER SQUARE FOOT SOIL BEARING AGAINST UNDISTURBED TRENCH. A 20% SAFETY FACTOR HAS BEEN ADDED.

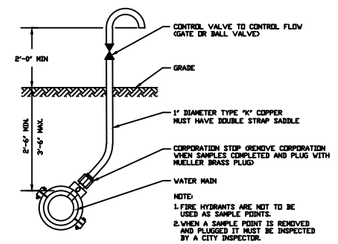
RESTRAINED JOINT DETAIL
NTS





NOTES:
1. REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON EXISTING MAIN AFTER FILLING AND FLUSHING OF NEW MAIN.
2. DO NOT REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON NEW MAIN UNTIL ALL TESTING HAS BEEN COMPLETED.

FILLING & FLUSHING CONNECTION
NTS



NOTE:
1. FIRE HYDRANTS ARE NOT TO BE USED AS SAMPLE POINTS.
2. WHEN A SAMPLE POINT IS REMOVED AND PLUGGED IT MUST BE INSPECTED BY A CITY INSPECTOR.

SAMPLING POINT DETAIL

Sep 19, 2017 - 12:04pm

Drawing name: F:\2015 Jobs\15-1273.03 Atlantic Shores Phase 2\15-1273.03 WSD.dwg

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Sheet Title
WATER AND SEWER DETAILS

Job Title
VILLAGE AT ATLANTIC SHORES II
701 NORTH FEDERAL HIGHWAY
CITY OF HALLANDALE BEACH, BROWARD COUNTY, FLORIDA 33009

Phase:
DRC
PLANS

Revisions

Scale: NTS	Date 03/22/17
Job No. 15-1273.03	Plot Date 09/19/17
Drawn by DRS	Sheet No. C5
Proj. Engr. DRS	
Appr. by DRS	5 of 6

I. GENERAL NOTES

A. APPLICABLE CODES

1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY, COUNTY AND STATE.
2. CONSTRUCTION SAFETY - ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OSHA), AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.
3. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH CHAPTER 90-96 OF THE LAWS OF FLORIDA (THE TRENCH SAFETY ACT) AND OSHA STANDARD 29 C.F.R. SECTION 1926.650 SUBPART P. THE CONTRACTOR SHALL SUBMIT WITH HIS CONTRACT A COMPLETED, SIGNED, AND NOTARIZED COPY OF THE TRENCH SAFETY ACT COMPLIANCE STATEMENT. THE CONTRACTOR SHALL ALSO SUBMIT A SEPARATE COST ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY CODES.
4. NO CONSTRUCTION MAY COMMENCE UNTIL THE APPROPRIATE PERMITS HAVE BEEN OBTAINED FROM ALL LOCAL, STATE AND FEDERAL AGENCIES.

B. PRECONSTRUCTION RESPONSIBILITIES

1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE ENGINEER AND HIMSELF.
2. THE CONTRACTOR SHALL OBTAIN AN SUNSHUNE STATE ONE CALL OF FLORIDA CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO PRIOR TO BEGINNING ANY EXCAVATION.
3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH HE FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. HE IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.
5. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

C. INSPECTIONS

1. THE OWNER, ENGINEER, AND LOCAL PERMITTING AGENCIES MAY MAKE INSPECTIONS OF THE WORK AT ANY TIME. THE CONTRACTOR SHALL COOPERATE FULLY WITH ALL INSPECTIONS.

D. SHOP DRAWINGS

1. THE CONTRACTOR SHALL SUBMIT (5) FIVE SETS OF SHOP DRAWINGS FOR APPROVAL TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION FOR ALL MATERIALS USED ON THE PROJECT. APPROVED SHOP DRAWINGS FROM THE ENGINEER SHALL THEN BE SUBMITTED BY THE CONTRACTOR TO THE COUNTY OR CITY FOR THEIR APPROVAL. NO CONSTRUCTION SHALL COMMENCE UNTIL THE APPROVED SHOP DRAWINGS HAVE BEEN OBTAINED BY THE CONTRACTOR FROM THE ENGINEER, CITY, AND/OR COUNTY.
2. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOG LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.

E. TEMPORARY FACILITIES

1. TEMPORARY UTILITIES - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO HIS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.
2. TRAFFIC REGULATION - MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MUTCD AND THE FDOT STRANDARD SPECIFICATIONS.
3. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC. NO HOLES SHALL BE LEFT OPEN OVERNIGHT.

F. PROJECT SITE

1. DURING CONSTRUCTION THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.
2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THIS END, THE CONTRACTOR SHALL DO AS REQUIRED ALL NECESSARY HIGHWAY OR DRIVEWAY, WALK, AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.

G. PROJECT RECORD DOCUMENTS

1. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED. INFORMATION RELATIVE TO MANHOLES, VALVES, SERVICES, FITTINGS, LENGTH OF PIPE, INVERT ELEVATIONS, FINISHED GRADE ELEVATIONS AND THE LIKE, SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR. TOP ELEVATIONS @ 100' O.C.
2. PRIOR TO THE PLACEMENT OF ANY ASPHALT OR CONCRETE PAVEMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD 'AS-BUILT' PLANS SHOWING LIMEROCK BASE GRADES, ALL DRAINAGE, WATER, AND SEWER IMPROVEMENTS. PAVING OPERATIONS SHALL NOT COMMENCE UNTIL THE ENGINEER HAS REVIEWED THE 'AS-BUILTS' AND THE ENGINEER HAS APPROVED PAVING TO COMMENCE.
3. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR SUBGRADE SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING LIMEROCK BASE MATERIAL.
4. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING ASPHALT.
5. ALL 'AS-BUILT' INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER AND ANY APPLICABLE REVIEWING AGENCY THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
6. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD FIVE COMPLETE SETS OF 'AS-BUILT' CONSTRUCTION DRAWINGS (PRINTS) AND ONE MYLAR ORIGINAL. THESE DRAWINGS SHALL BE MARKED TO SHOW 'AS-BUILT' CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED BY THE CONTRACTOR.
7. ALL 'AS-BUILT' INFORMATION ON ELEVATIONS OF PAVING, DRAINAGE, WATER, AND SEWER SHALL BE CERTIFIED BY A REGISTERED LAND SURVEYOR.
8. ALL AS-BUILT INFORMATION MUST BE PROVIDED IN AUTOCAD® RELEASE 2000 OR LATER FORMAT.

H. EARTHWORK

1. NONE OF THE EXISTING MATERIAL IS TO BE INCORPORATED IN THE LIMEROCK BASE.
2. ALL SUBGRADE UNDER PAVED AREAS SHALL HAVE A MINIMUM LBR VALUE OF 40 AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
3. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
4. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL WITHIN WORK LIMITS AND SWALE AREAS SHALL BE REMOVED.

I. PAVING

1. TESTING - REQUIRED, ASPHALT AND LIMEROCK TESTS SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER OR THE LOCAL GOVERNMENT AGENCY.

J. GENERAL UTILITY NOTES

1. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES AND TOPOGRAPHY HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT GUARANTEED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION (VERTICAL & HORIZONTAL) OF ANY EXISTING UTILITIES AND TOPOGRAPHY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL UTILITIES, BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OR DISCREPANCIES OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS OF CONSTRUCTION DRAWINGS SHALL BE RESOLVED BY THE ENGINEER PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES IF APPLICABLE.
   FLORIDA POWER AND LIGHT COMPANYSOUTHERN BELL-
   LOCAL GAS COMPANY-
   LOCAL WATER AND SEWER UTILITY COMPANY(S)-
   LOCAL CABLE TELEVISION COMPANY(S)-
   LOCAL CITY ENGINEERING DEPARTMENT-
   FLORIDA DEPARTMENT OF TRANSPORTATION-
   SUNSHINE STATE ONE CALL OF FLORIDA-
   (1-800-432-4770)
   FOR STREET EXCAVATION OR CLOSING:
   TRAFFIC SARGEANT-
   FIRE DISPATCH-
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF EXISTING PAVEMENT, PIPES, CONDUITS, CABLES, ETC., AND LANDSCAPED AREAS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS AND/OR THOSE OF HIS SUBCONTRACTORS, AND SHALL RESTORE THEM PROMPTLY. THIS REPAIR SHALL BE DONE AT NO EXPENSE TO THE OWNER OF THE DAMAGED UTILITY OR PROPERTY.
4. COORDINATE CONSTRUCTION SCHEDULING FOR CONNECTION TO THE EXISTING WATER AND SEWER LINES WITH THE CITY UTILITY DEPARTMENT.
5. ALL PAVEMENT RESTORATION TO BE MADE IN ACCORDANCE WITH THE CITY, COUNTY OR STATE OF FLORIDA D.O.T. STANDARD SPECIFICATIONS, WHERE APPLICABLE.
6. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL SUPPLY THE ENGINEER OF RECORD WITH THE CERTIFICATION THAT ALL CONSTRUCTION AND MATERIALS MEET OR EXCEEDS THE DESIGN AND HAS BEEN INSTALLED PER THE DRAWINGS AND/OR AS-BUILT DRAWINGS.
7. THE CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER CONTRACTORS IN THE AREA AND ANY OTHER UNDERGROUND CONDUIT REQUIRED FOR FP&L, SOUTHERN BELL, IRRIGATION SYSTEM, ETC., PRIOR TO BEGINNING SUBGRADE. THE CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING UTILITIES WITH APPLICABLE UTILITY COMPANIES.
8. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN OVERNIGHT WITHOUT WRITTEN PERMISSION OF THE CITY OR OWNER.
9. THE CONTRACTOR MUST NOTIFY FLYNN ENGINEERING SERVICES, P.A. PRIOR TO STARTING EACH PHASE OF ANY UNDERGROUND UTILITY WORK OR PAVING AND GRADING OPERATIONS SO THAT THE PROPER INSPECTIONS MAY BE SCHEDULED.

K. SURVEY INFORMATION

1. SURVEY DATA - ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. SURVEY INFORMATION BASED ON SURVEY BY BELLO & BELLO LAND SURVEYING CORPORATION DATED 04/19/15 (SURVEY NUMBER 15120-B).

II. CONSTRUCTION SPECIFICATIONS

A. GENERAL

1. IT IS THE INTENT OF THESE SPECIFICATIONS TO DESCRIBE THE MINIMUM ACCEPTABLE TECHNICAL REQUIREMENTS FOR THE MATERIALS AND WORKMANSHIP FOR CONSTRUCTION OF SITE IMPROVEMENTS FOR THIS PROJECT. SUCH IMPROVEMENTS SHALL GENERALLY INCLUDE, BUT NOT TO BE LIMITED TO, CLEARING, GRADING, PAVING, REMOVAL OF EXISTING PAVEMENT, AND STORM DRAINAGE.
2. IT IS THE INTENT THAT THE FLORIDA DEPARTMENT OF TRANSPORTATION 'STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION: DATED 2007 TOGETHER WITH 'SUPPLEMENTAL SPECIFICATIONS TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION' BE USED WHERE APPLICABLE FOR THE VARIOUS WORK, AND THAT WHERE SUCH WORDING THEREIN REFERS TO THE STATE OF FLORIDA AND ITS DEPARTMENT OF TRANSPORTATION AND PERSONNEL, SUCH WORDING IS INTENDED TO BE REPLACED WITH THE WORDING WHICH WOULD PROVIDE PROPER TERMINOLOGY; THEREBY MAKING SUCH 'STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION' AS THE 'STANDARD SPECIFICATIONS' FOR THIS PROJECT. IF WITHIN A PARTICULAR SECTION, ANOTHER SECTION, ARTICLE OR PARAGRAPH IS REFERRED TO, IT SHALL BE PART OF THE STANDARD SPECIFICATIONS ALSO. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL AND STATE LAWS, REGULATIONS AND BUILDING CODES WHICH HAVE JURISDICTION IN THE AREA.
3. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT AND PERFORM ALL OPERATIONS REQUIRED TO COMPLETE THE CONSTRUCTION OF A PAVING, DRAINAGE, WATER AND SEWER SYSTEM AS SHOWN ON THE PLANS, SPECIFIED HEREIN, OR BOTH. IT IS THE INTENT TO PROVIDE A COMPLETE AND OPERATING FACILITY IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE CONSTRUCTION DRAWINGS. THE MATERIAL AND EQUIPMENT SHOWN OR SPECIFIED SHALL NOT BE TAKEN TO EXCLUDE ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.
4. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE PLANS AND CONSTRUCTION SPECIFICATIONS AND THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY THE UNIT OF GOVERNMENT WHICH HAS JURISDICTION AND RESPONSIBILITY FOR THE CONSTRUCTION. WHERE CONFLICTS OR OMISSIONS EXIST, THE JURISDICTIONAL GOVERNMENT ENGINEERING DEPARTMENT'S STANDARDS SHALL GOVERN. SUBSTITUTIONS AND DEVIATIONS FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
5. GUARANTEE - ALL MATERIALS AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT, SHALL BE GUARANTEED FOR A PERIOD OF (1) ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE THEREOF, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE GUARANTEED EQUIPMENT OR MATERIALS, DURING THE GUARANTEE PERIOD, THE AFFECTED PART OR MATERIALS SHALL BE REPLACED PROMPTLY WITH NEW PARTS OR MATERIALS BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER. IN THE EVENT THE CONTRACTOR FAILS TO MAKE NECESSARY REPLACEMENT OR REPAIRS WITHIN (7) SEVEN DAYS AFTER NOTIFICATION BY THE OWNER, THE OWNER MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR.

B. EARTHWORK

1. ALL AREAS WITHIN THE LIMITS OF WORK SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH AND ALL OTHER OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND TO A DEPTH OF 1'. ITEMS DESIGNATED TO REMAIN OR TO BE RELOCATED OR TO BE ADJUSTED SHALL BE SO DESIGNATED ON THE DRAWINGS. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 110 OF THE STANDARD SPECIFICATIONS.
2. FILL MATERIAL SHALL BE CLASSIFIED AS A-1, A-3, OR A-2-4 IN ACCORDANCE WITH AASHTO M--145 AND SHALL BE FREE FROM VEGETATION AND ORGANIC MATERIAL. NOT MORE THAN 10% BY WEIGHT OF FILL MATERIAL SHALL PASS THE NO. 200 SIEVE.
3. ALL MATERIAL OF CONSTRUCTION SHALL BE SUBJECT TO INSPECTION AND TESTING TO ESTABLISH CONFORMANCE WITH THE SPECIFICATIONS AND SUITABLY FOR THE USES INTENDED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO THE TIME HE WILL BE READY FOR AN INSPECTION OR TEST. THE CONTRACTOR SHALL FOLLOW CITY AND COUNTY INSPECTION PROCEDURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PHASE OF WORK DEPENDENT ON AN INSPECTION OR TEST OF AN EARLIER PHASE OF WORK, PRIOR TO THAT TEST OR INSPECTION PASSING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER. TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND LIMEROCK, UTILITIES, EXCAVATION, ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, ETC.
4. WHEN ENCOUNTERED, MUCK SHALL BE COMPLETELY REMOVED FROM THE CENTER LINE (10) TEN FEET BEYOND THE EDGE OF PAVEMENT EACH SIDE. ALL SUCH MATERIAL SHALL BE REPLACED BY APPROVED GRANULAR FILL, COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180).
5. WHEN ENCOUNTERED WITHIN DRAINAGE SWALES, HARDPAN OR MUCK SHALL BE REMOVED FOR A WIDTH OF (5) FIVE FEET AT THE INVERT AND REPLACED WITH GRANULAR MATERIALS.
6. ALL UNDERGROUND UTILITIES AND DRAINAGE INSTALLATIONS SHALL BE IN PLACE PRIOR TO SUBGRADE COMPACTION AND PAVEMENT CONSTRUCTION.
7. GROUND ADJACENT TO ROADWAY/PAVEMENT HAVING RUNOFF SHALL BE GRADED (2) TWO INCHES LOWER THAN THE EDGE OF PAVEMENT TO ALLOW FOR THE PLACEMENT OF SOD.
8. SITE GRADING ELEVATIONS SHALL BE WITHIN 0.1' OF THE REQUIRED ELEVATION AND ALL AREAS SHALL BE GRADED TO DRAIN WITHOUT PONDING.
9. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION, FILL, EMBANKMENT AND GRADING TO ACHIEVE THE PROPOSED PLAN GRADES INCLUDING TYPICAL ROAD SECTIONS, SIDE SLOPES AND CANAL SECTIONS. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 120 OF THE STANDARD SPECIFICATIONS. IF FILL MATERIAL IS REQUIRED IN EXCESS OF THAT GENERATED BY THE EXCAVATION, THE CONTRACTOR SHALL SUPPLY THIS MATERIAL AS REQUIRED FROM OFF-SITE.

C. DRAINAGE

1. INLETS - ALL INLETS SHALL BE THE TYPE DESIGNATED ON THE PLANS, AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FLORIDA D.O.T. SPECIFICATIONS, 2007, SECTION 425. ALL INLETS AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEMS BY WAY OF TEMPORARY PLUGS AND PLYWOOD OR PLASTIC COVERS OVER THE INLETS. THE ENTIRE DRAINAGE SYSTEM SHALL BE CLEANED OF ALL DEBRIS PRIOR TO FINAL ACCEPTANCE.
2. PIPE SPECIFICATIONS: THE MATERIAL TYPE IS SHOWN ON THE DRAWINGS BY ONE OF THE FOLLOWING DESIGNATIONS:
   RCP = REINFORCED CONCRETE PIPE, ASTM DESIGNATION C--76, TABLE III, F.D.O.T., SECTION 941.
   CMP = CORRUGATED METAL (ALUMINUM) PIPE, ASTM DESIGNATION M-196.
   CMP (SMOOTH LINED) = CORRUGATED METAL ALUMINUM PIPE, (SMOOTH LINED) ASTM DESIGNATION M-196.
   SCP = SLOTTED CONCRETE PIPE, F.D.O.T. SECTIONS 941 AND 942.
   PVC = POLYVINYL CHLORIDE PIPE.
   PCMP = PERFORATED CMP, F.D.O.T. SECTION 945
3. PIPE BACKFILL - REQUIREMENTS FOR PIPE BACKFILL CROSSING ROADS OR PARKING AREAS SHALL BE AS DEFINED IN THE FLORIDA D.O.T. SPECIFICATIONS, 2007, SECTION 125-8. PIPELINE BACKFILL SHALL BE PLACED IN 6 INCH LIFTS AND COMPACTED TO 100% OF THE STANDARD PROCTOR (AASHTO T--99 SPECIFICATIONS).
4. LOCATION OF DRAINAGE STRUCTURES SHALL GOVERN, AND PIPE LENGTH MAY HAVE TO BE ADJUSTED TO ACCOMPLISH CONSTRUCTION AS SHOWN ON THESE PLANS.
5. PLASTIC FILTER FABRIC SHALL BE MIRAFI, TYPAR OR EQUAL CONFORMING TO SECTION 985 OF THE F.D.O.T. STANDARD SPECIFICATIONS.
6. ALL DRAINAGE LINES SHALL BE LAMPED PRIOR TO FINAL ACCEPTANCE.

D. PAVING

1. WHERE NEW ASPHALT MEETS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE. PRIOR TO REMOVING CURB OR GUTTER, THE ADJACENT ASPHALT SHALL BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE.
2. INTERNAL ASPHALT PAVING CONSTRUCTED ON EXISTING SANDY SOILS SHALL BE CONSTRUCTED WITH A 12" SUBGRADE, COMPACTED TO A MINIMUM DENSITY OF 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99. THE COMPACTED SUBGRADE SHALL BE CONSTRUCTED IN THE LIMITS SHOWN ON THE PLANS. ALL SUBGRADE SHALL HAVE AN LBR OF 40 UNLESS OTHERWISE NOTED.
3. ASPHALTIC CONCRETE SURFACE COURSE SHALL BE CONSTRUCTED TO THE LIMITS SHOWN ON THE PLANS. THE SURFACE COURSE SHALL CONSIST OF THE THICKNESS AND TYPE ASPHALTIC CONCRETE AS SPECIFIED IN THE PLANS. ALL ASPHALTIC CONCRETE SHALL BE IN ACCORDANCE WITH SECTIONS 320, 330, 331, 332, 333, 335, 337 AND 339 OF THE STANDARD SPECIFICATIONS.
4. LIMEROCK BASE SHALL BE PREPARED, COMPACTED AND GRADED AND SHALL BE IN ACCORDANCE WITH SECTION 200 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION 'STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 EDITION'. ALL LIMEROCK SHALL BE COMPACTED TO 98% PER AASHTO T-180 AND HAVE NOT LESS THAN 70% OF CARBONATES OF CALCIUM AND MAGNESIUM UNLESS OTHERWISE DESIGNATED. ALL LIMEROCK SHALL BE PRIMED. THE ENGINEER SHALL INSPECT THE COMPLETED BASE COURSE AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES AND CLEAN THE BASE COURSE PRIOR TO THE PLACEMENT OF THE PRIME COAT. A TACK COAT WILL ALSO BE REQUIRED IF THE ENGINEER FINDS THAT THE PRIMED BASE HAS BECOME EXCESSIVELY DIRTY OR THE PRIME COAT HAS CURED TO THE EXTENT OF LOSING BOUNDING EFFECT PRIOR TO PLACEMENT OF THE ASPHALTIC CONCRETE SURFACE COURSE. THE PRIME AND TACK COATS SHALL BE IN ACCORDANCE WITH SECTION 300 OF THE STANDARD SPECIFICATIONS.
5. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO EQUAL LIFTS.
6. ASPHALT EDGES THAT ARE NOT CURBED SHALL BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE TO THE DIMENSIONS SHOWN ON THE HORIZONTAL CONTROL PLAN.

E. CONSTRUCTION

1. CONCRETE SIDEWALK SHALL BE 4" THICK ON COMPACTED SUBGRADE, WITH 1/2" EXPANSION JOINTS PLACED AT A MAXIMUM OF 75'. CRACK CONTROL JOINTS SHALL BE 5' ON CENTER. THE BACK OF SIDEWALK ELEVATION SHALL BE 3" HIGHER THAN THE EDGE OF PAVEMENT, UNLESS OTHERWISE SPECIFIED BY LOCAL CODES, OR SHOWN ON THE DRAWINGS. ALL CONCRETE SIDEWALKS THAT CROSS DRIVEWAYS SHALL BE 6" THICK AND HAVE A MINIMUM OF 3000 P.S.I. CONCRETE.
2. CONCRETE CURB SHALL BE CONSTRUCTED TO THE LIMITS SHOWN ON THE PLANS. THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS AND SHALL BE IN ACCORDANCE WITH SECTION 345 OF THE STANDARD SPECIFICATIONS.

F. SIGNAGE AND PAVEMENT MARKINGS

1. THE ROADS AND PARKING AREAS SHALL BE STRIPED IN ACCORDANCE WITH THE PLANS. NO STRIPE SHALL BE LESS THAN THE SPECIFIED WIDTH NOR SHALL IT EXCEED THE SPECIFIED WIDTH BY MORE THAN 1/2 INCH. STRIPING SHALL BE IN ACCORDANCE WITH SECTIONS 710 AND 971 OF THE STANDARD SPECIFICATIONS. ALL STRIPPING WITHIN THE PUBLIC RIGHT-OF-WAY AND AT DRIVEWAY ACCESS POINTS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
2. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN ADEQUATE TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS FOR THE PURPOSE OF PROTECTING THE TRAVELING PUBLIC, HIS WORKMEN AND THE WORK AREA IN GENERAL. SUCH TRAFFIC CONTROL SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT PERIOD, INCLUDING ANY TEMPORARY SUSPENSIONS OF THE WORK. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH SECTION 102 OF THE STANDARD SPECIFICATIONS AND THE STATE OF FLORIDA, MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS.
3. ALL PAVEMENT MARKINGS ON-SITE SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
4. ALL SIGNING AND MARKINGS SHALL CONFORM TO MUTCD AND BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS (LATEST EDITION).

G. SEWER SYSTEM NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LOCAL UTILITY DEPARTMENT MINIMUM STANDARDS AND APPLICABLE CODES.
2. THE CONTRACTOR SHALL FIELD VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF EXISTING SEWER LINES, MANHOLES, AND STUBOUTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE FIELD INFORMATION DIFFERS FROM THAT SHOWN ON THE PLANS.
3. ALL GRAVITY SEWER PIPE 4" & LARGER SHALL BE POLYVINYL CHLORIDE (PVC) ASTM 3034, SDR 35 FOR THE ON-SITE SANITARY AWWA C-900 PVC OFF-SITE SHALL BE USED IN THE CITY R.O.W.
4. MINIMUM SLOPE SHALL BE 0.4% FOR 8" PIPE AND 1% FOR 6" SERVICE LATERALS.
5. DUCTILE IRON SEWER PIPE FOR GRAVITY MAINS SHALL BE CLASS 350 POLYLINED WITH A MINIMUM OF 30" OF COVER.
6. PVC LINES ENTERING OR LEAVING MANHOLES SHALL HAVE A NEOPREME BOOT WITH STAINLESS STEEL ACCESSORIES.
7. CONNECTIONS TO EXISTING MAINS SHALL BE MADE UNDER THE DIRECTION OF THE CITY UTILITY DEPARTMENT.
8. CLEANOUTS SHALL BE INSTALLED AT ALL SEWER SERVICES EXCEEDING 75' IN LENGTH (EVERY 75') WITH A CLEANOUT AT THE PROPERTY LINE, EASEMENT LINE, OR 5' FROM A BUILDING. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE BUILDING CLEANOUT (5' FROM THE BUILDING) AND ELEVATION OF THE END OF THE SEWER SERVICE WITH THE BUILDING PLUMBING CONTRACTOR.
9. LIMITS OF INFILTRATION OR EXFILTRATION OR LEAKAGE FOR THE ENTIRE SYSTEM, INCLUDING SERVICE LINES, SHALL NOT EXCEED A RATE OF 0.1 GALLONS PER FOOT PER 24 HOURS FOR ALL SIZES OF PIPE THROUGHOUT THE SYSTEM. THE ALLOWABLE LIMITS OF INFILTRATION OR EXFILTRATION OF MANHOLES SHALL NOT EXCEED A RATE OF 4 GALLONS PER MANHOLE PER 24 HOURS.
10. ALL SEWER MAINS AND SERVICES, UP TO AND INCLUDING THE END OF THE SERVICE, SHALL BE CONSTRUCTED WITHIN A MINIMUM OF A 15' UTILITY EASEMENT, UNLESS OTHERWISE SHOWN.
11. THE ENTIRE SYSTEM SHALL BE CLEANED PRIOR TO LAMPING OF THE LINES. 12" SANITARY SEWER MUST BE TELEVISED @ CONTRACTORS EXPENSE. ALL DEFICIENTCIES OBSERVED ON THE VIDEO TAPES SHALL BE CORRECTED PRIOR TO CITY CERTIFICATION TO ANY AGENCY.
12. PROVIDE ORANGE RPM @ CENTERLINE OF ROAD OF NEAREST DRIVING LANE FOR MANHOLES LOCATED IN GREEN AREAS.
13. FORCE MAIN TESTING
   A. ALL PIPE SHALL BE TESTED UNDER A CONSTANT PRESSURE OF 150 PSI FOR A MINIMUM TEST PERIOD OF 2 HOURS AND SHALL NOT EXCEED THE LEAKAGE REQUIREMENTS AS PER ANSI/AWWA SPECIFICATIONS OF C-600-05 LEAKAGE FORMULA:

   $L = \frac{SDP^{0.5}}{148,000}$

   L = ALLOWABLE LEAKAGE IN GALLONS PER HOUR.
   S = TOTAL LENGTH OF PIPE TESTED, FEET. (2000 MAX. PER TEST)
   D = DIAMETER OF THE PIPE TESTED, INCHES.
   P = AVERAGE TEST PRESSURE, PSI.
   THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF THE CITY AND THE ENGINEER OF RECORD. PRESSURE DROP OF MORE THAN 5 PSI IS NOT ALLOWED. REPUMPING OF MAIN IS NOT ALLOWED. MAXIMUM LENGTH OF TEST PIPE SECTION SHALL BE 2,000 FEET.

H. WATER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LOCAL UTILITY DEPARTMENT MINIMUM STANDARDS AND APPLICABLE CODES.
2. ALL POTABLE WATER PIPE 4" AND LARGER SHALL BE POLYVINYL CHLORIDE (PVC) PRESSURE PIPE CONFORMING TO AWWA C-900-97 PVC-1120, SDR-18 OR DUCTILE IRON CONFORMING TO THE REQUIREMENTS OF ANSI/AWWA C-151/A21.51--02 AND LINED AND COATED PER ANSI/AWWA C-104/A21.4-03. 4" DIP SHALL DE CLASS 350, 6" AND 8" DIP SHALL BE CLASS 350, AND 10" DIP SHALL BE CLASS 350. MINIMUM DEPTH OF COVER IS 36" FOR PVC AND 30" FOR DIP. ALL PIPE TO HAVE 150 PSI MINIMUM PRESSURE RATING. FITTINGS 4" AND LARGER SHALL BE DUCTILE IRON MEETING ANSI/AWWA C-110/A21.10-03. FITTINGS MUST BE CEMENT LINED AND SEAL COATED PER C-104/A21.4-03 PRESSURE RATING OF ALL FITTINGS SHALL BE 350 PSI. ALL WATER MAIN PIPES WITHIN THE CITIES RIGHT-OF-WAY OR EASEMENT SHALL BE DUCTILE IRON PIPE CLASS 350. ALL FIRE MAINS SHALL BE DIP OR PVC C-900 (SDR-14) AND PRESSURE TESTED @ 200 PSI FOR 2 HRS.
3. ALL WATER PIPE SMALLER THAN 4 INCHES SHALL BE PVC MINIMUM SCHEDULE 80 WITH A MINIMUM WORKING PRESSURE OF 160 PSI. FITTINGS FOR PIPE SMALLER THAN 4" SHALL BE MINIMUM SCHEDULE 80. SOLVENT WELD SOCKET TYPE ASTM D-2464 OR MINIMUM SCHEDULE 80 THREADED TYPE ASTM D-2464.
4. THERE SHALL BE NO CONNECTION TO AN EXISTING WATER MAIN UNTIL PRESSURE AND BACTERIOLOGICAL TESTS HAVE BEEN RUN AND THE SYSTEM ACCEPTED BY THE CITY AND THE COUNTY HEALTH DEPARTMENT.
5. ALL CONNECTIONS TO EXISTING MAINS SHALL BE MADE UNDER THE DIRECTION OF THE CITY UTILITY DEPARTMENT.
6. WATER METERS 2" OR SMALLER SHALL BE INSTALLED BY THE CITY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY UTILITY DEPARTMENT AND PROVIDE THE PROPER FITTINGS NECESSARY TO INSTALL THE METERS. ALL COSTS ASSOCIATED WITH THE METER INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. GATE VALVES, 4" OR LARGER, SHALL MEET AWWA C-509-01 STANDARD. BUTTERFLY VALVES, 16" OR LARGER, SHALL MEET AWWA C-504-00, CLASS 150B STANDARDS.
8. FIRE HYDRANTS SHALL BE TRAFFIC BREAK AWAY TYPE CONFORMING TO AWWA C-502-94 STANDARDS. FIRE HYDRANTS SHALL BE MUELLER MODEL A-423 OR CLOW MEDALLION 2546-5B
9. ALL TRENCHING, PIPE LAYING, BACKFILLING, PRESSURE TESTING, AND DISINFECTING MUST COMPLY WITH AWWA C-600-99 AND C-651-99 STANDARDS.
10. DEFLECT WATER MAINS AS NECESSARY TO AVOID ANY CONFLICTS WITH OTHER UTILITIES. ALLOWABLE DEFLECTION SHALL NOT EXCEED AWWA STANDARDS.
11. THE CONTRACTOR SHALL COORDINATE THE LOCATION AND ELEVATION OF THE ENDS OF THE WATER SERVICES WITH THE BUILDING PLUMBING CONTRACTOR.
12. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING WATER MAINS AND PROPOSED CONNECTION POINTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE FIELD INFORMATION DIFFERS FROM THAT SHOWN ON THE PLANS.
13. ALL WATER MAINS TO BE FLUSHED VIA POLY PIG.
14. THE CONTRACTOR MUST ARRANGE AND PAY FOR ANY TEMPORARY WATER REQUIRED FOR CONSTRUCTION, CLEANING, TESTING, ETC...

18. TESTING
   A. ALL PIPE SHALL BE TESTED UNDER A CONSTANT PRESSURE OF 150 PSI (200 PSI FOR FIRE MAIN) FOR A MINIMUM TEST PERIOD OF 2 HOURS AND SHALL NOT EXCEED THE LEAKAGE REQUIREMENTS AS PER ANSI/AWWA SPECIFICATIONS OF C-600-05 LEAKAGE FORMULA:

   $L = \frac{SDP^{0.5}}{148,000}$

   L = ALLOWABLE LEAKAGE IN GALLONS PER HOUR.
   S = TOTAL LENGTH OF PIPE TESTED, FEET. (2000 MAX. PER TEST)
   D = DIAMETER OF THE PIPE TESTED, INCHES.
   P = AVERAGE TEST PRESSURE, PSI.
   THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF THE CITY AND THE ENGINEER OF RECORD. PRESSURE DROP OF MORE THAN 5 PSI IS NOT ALLOWED. REPUMPING OF MAIN IS NOT ALLOWED. MAXIMUM LENGTH OF TEST PIPE SECTION SHALL BE 2,000 FEET.
   B. DISINFECTION OF ALL WATER LINES SHALL COMPLY WITH ANSI/AWWA C-651-05. BACTERIOLOGICAL SAMPLING POINTS ARE SHOWN ON THE WATER AND SEWER PLAN A CHLORINE RESIDUAL OF .3 TO 1.5 PPM SHALL BE MAINTAINED. ALL STERILIZATION SHALL BE AT THE FULL EXPENSE OF THE CONTRACTOR. BACTERIOLOGICAL SAMPLES MUST BE APPROVED BY THE COUNTY PUBLIC HEALTH UNIT AND THE CITY PRIOR TO OPERATION OF THE SYSTEM.
16. ALL PVC PIPE SHALL BE INSTALLED WITH METALLIC LOCATOR TAPE 18" ABOVE THE TOP OF PIPE.
17. BACK FLOW PREVENTORS MUST BE APPROVED BY THE CITY AS TO TYPE AND LOCATION PRIOR TO INSTALLATION.
18. 'ALL WATER MAIN PIPE, INCLUDING FITTINGS, INSTALLED ON OR AFTER AUGUST 28, 2003, EXCEPT PIPE INSTALLED UNDER A CONSTRUCTION PERMIT FOR WHICH HEALTH DEPARTMENT RECEIVED A COMPLETE APPLICATION BEFORE AUGUST 28, 2003, SHALL BE COLOR CODED OR MARKED USING BLUE AS A PREDOMINANT COLOR TO DIFFERENTIATE DRINKING WATER FROM RECLAIMED OR OTHER WATER. UNDERGROUND PLASTIC PIPE SHALL BE SOLIDWALL BLUE PIPE, SHALL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE BLUE STRIPES APPLIED TO WALL PIPE. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPES WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE AT DRINKING WATER TREATMENT PLANTS SHALL BE COLOR CODED AND LABELED IN ACCORDANCE WITH SUBSECTION 62-555.320(10), F.A.C., AND ALL OTHER ABOVEGROUND PIPE SHALL BE PAINTED BLUE OR SHALL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.' SUBSECTION 62-555.320(10), F.A.C. READS AS FOLLOWS: 'COLOR CODING OF PIPES AT DRINKING WATER TREATMENT PLANTS: ALL NEW OR ALTERED, ABOVEGROUND PIPING AT DRINKING WATER TREATMENT PLANTS SHALL BE COLOR CODED AND LABELED AS RECOMMENDED IN SECTION 2.14 OF RECOMMENDED STANDARDS FOR WATER WORKS AS INCORPORATED INTO RULE 62-555.330, F.A.C. IN ADDITION, ALL UNDERGROUND WATER MAIN PIPE THAT IS INSTALLED AT DRINKING WATER TREATMENT PLANTS ON OR AFTER AUGUST 28, 2003, AND THAT IS CONVEYING FINISHED DRINKING WATER SHALL BE COLOR CODED AS REQUIRED UNDER SUBPARAGRAPH 62-555.320(21)(B)3., F.A.C., THIS SUBSECTION DOES NOT APPLY TO DRINKING WATER TREATMENT PLANT PIPING INSTALLED OR ALTERED UNDER A CONSTRUCTION PERMIT FOR WHICH THE DEPARTMENT RECEIVED A COMPLETE APPLICATION BEFORE AUGUST 28, 2003.'

III. SPECIFIC SITE NOTES

A. GENERAL

1. 'CITY' IN THESE NOTES REFERS TO THE CITY OF HALLANDALE BEACH.
2. 'COUNTY' IN THESE NOTES REFERS TO BROWARD COUNTY.
3. 'STATE' IN THESE NOTES REFERS TO THE STATE OF FLORIDA.

IIII. INTENT OF DRAWINGS & SPECIFACTIONS

1. INTENT OF SPECIFICATIONS AND DRAWINGS IS TO COVER AN INSTALLATION COMPLETE IN EVERY ASPECT. IT IS NOT INTENDED TO GIVE EVERY DETAIL ON DRAWINGS AND SPECIFICATIONS. OWNER WILL NOT BE RESPONSIBLE FOR ABSENCE OF ANY DETAIL WHICH CONTRACTOR MAY REQUIRE, NOR FOR ANY SPECIAL CONSTRUCTION WHICH MAY BE FOUND NECESSARY AS WORK PROGRESSES. IF AN ITEM IS EITHER INDICATED OR SPECIFIED, IT SHALL BE CONSIDERED SUFFICIENT FOR INCLUSION OF SAID ITEM IN CONTRACT. CONTRACTOR SHALL FURNISH AND INSTALL MATERIALS AND EQUIPMENT USUALLY FURNISHED WITH SUCH SYSTEMS, AND AS NEEDED TO COMPLETE AN OPERATING INSTALLATION, WHETHER MENTIONED OR NOT, WHICH ARE CUSTOMARY TO ITS TRADE.
2. INCIDENTAL ACCESSORIES NOT USUALLY SHOWN OR SPECIFIED BUT WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND OPERATION SHALL BE INCLUDED IN WORK WITHOUT ADDITIONAL COST TO THE OWNER, THE SAME AS IF HERIN SPECIFIED.
3. ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON BUT MENTIONED IN THE SPECIFICAIONS, OR VICE-VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE FURNISHED, DELIVERED, AND INSTALLED BY THE CONTRACTOR, WITHOUT ADDITIONAL COST TO THE OWNER.
4. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INDICATED (DO NOT SCALE THE DRAWINGS). CONSULT THE ENGINEER FOR EXACT LOCATIONS OF ITEMS WHICH ARE NOT DEFINITELY LOCATED ON THE DRAWINGS.
5. ENGINEER'S INTERPRETATION OF DRAWINGS AND SPECIFICATIONS SHALL BE FINAL AND BINDING UPON CONTRACTOR.
6. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID, AND THOROUGHLY INVESTIGATE AND VERIFY ALL CONDITIONS UNDER SHICH WORK SHALL BE PERFORMED.
7. IF A DISCREPANCY OCCURS BETWEEN A DETAIL, PLAN OR SPECIFICAITONS, THE MOST RESTRICTIVE DETAIL TAKES PRECEDENCE & SHALL BE IMPLEMENTED IN THE CONSTRUCTED PROJECT.

BROWARD COUNTY TRAFFIC ENGINEERING COMMUNICATION NOTES:

ALL PARTIES SHALL BE AWARE THAT DIRECTIONAL BORES, UTILITY CONNECTIONS, THE PLACEMENT OF MOT AND ADVANCE SIGNAGE MAY, BY THEIR PLACEMENT, DAMAGE/DESTROY THE COMMUNICATIONS CABLE/CONDUIT LOCATED INSIDE/OUTSIDE THE PROJECT AREA. ADDITIONALLY, CURB/GUTTER/SIDEWALK REMOVAL/PLACEMENT, RELOCATION OF TREES, LANDSCAPING ACTIVITIES AND IRRIGATION ACTIVITIES ARE POTENTIAL CAUSES FOR DAMAGE TO BCTED'S COMMUNICATIONS CABLE/CONDUIT. ALL PARTIES SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN PROXIMITY TO THE COMMUNICATIONS CABLE/CONDUIT. ANY WORK, INCIDENTAL TO THE PROJECT WHICH DAMAGES OR IMPACTS THE COMMUNICATIONS CABLE/CONDUIT SHALL BE SUBJECT TO THE TERMS AND CONDITIONS AS SPECIFIED WITHIN THE PLAN SET UNDER "COMMUNICATION NOTES" AND BCTED'S "STANDARDS AND SPECIFICATIONS – COMMUNICATION INFRASTRUCTURE" DOCUMENT.

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

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

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

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

PROCEDURE FOR NOTIFICATION OF COMMUNICATION DISRUPTION:

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

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

F.D.O.T. NOTES:

1. THE LOCAL MEDIA SHALL BE CONTACTED A WEEK PRIOR TO ANY LANE CLOSURES ON THE STATE ROAD SYSTEM AS IT WILL OCCUR DURING PEAK HOURS OR OVER THE SPAN OF MORE THAN ONE DAY. CONTACT BARBARA KELLEHER, FDOT PUBLIC INFORMATION OFFICE AT 954–777–4090 FOR GUIDANCE ON WHO TO CONTACT. PROVIDE COPY OF THE PRESS RELEASE TO:

   FLORIDA DEPARTMENT OF TRANSPORTATION
   PUBLIC INFORMATION OFFICE
   3400 WEST COMMERCIAL BLVD.
   FORT LAUDERDALE, FLORIDA 33309
2. ALL MATERIALS AND CONSTRUCTION WITHIN THE FDOT RIGHT–OF–WAY SHALL CONFORM TO THE FDOT DESIGN STANDARDS (FY 2016–17 EDITION).
3. THE APPLICANT'S ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION SHALL INSURE THAT THE MAINTENANCE OF TRAFFIC PLAN (MOT) FOR THE PROJECT IS IN ACCORDANCE WITH THE APPLICABLE FDOT 600 SERIES INDEX NUMBER (INDEX NO. 613) AND THESE DOCUMENTS: THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. DEPARTMENT OF TRANSPORTATION, FHWA).
4. AT THE END OF EACH WORK PERIOD, ANY DROP–OFF IN THE AREA ADJACENT TO THE TRAVEL WAY OF THE STATE ROAD SHALL BE BACKFILLED IN ACCORDANCE WITH STANDARD INDEX 600 OR SHALL BE OTHERWISE PROTECTED WITH TEMPORARY BARRIER WALL AT THE CONTRACTOR'S EXPENSE.
5. IF THE PERMITTED WORK IS ON A ROADWAY THAT HAS BEEN SELECTED AS A HURRICANE OR DISASTER EVACUATION ROUTE, THE APPLICANT, AT THE PRE–CONSTRUCTION CONFERENCE IS REQUIRED TO PRESENT, AS PART OF THE WORK PLAN, AN EMERGENCY FUNCTIONAL RESTORATION PLAN TO ADDRESS EVENTUALITIES SUCH AS HURRICANES.
6. THE CONTRACTOR MUST CALL THE APPROPRIATE COUNTY TRAFFIC ENGINEERING DIVISION, HAVING JURISDICTION OVER THE PROJECT AT LEAST 48 HOURS, BEFORE ANY EXCAVATION WITHIN THE FDOT RIGHT–OF–WAY TO DETERMINE THE LOCATION OF THE EXISTING TRAFFIC SIGNAL INTERCONNECT CABLE.
7. THE LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. RELOCATION OF UTILITIES SHALL BE COORDINATED WITH UTILITY COMPANIES AFTER IDENTIFICATION OF CONFLICT BY CONTRACTOR. CONTRACTOR WILL NOTIFY ENGINEER IN ADVANCE BEFORE ANY RELOCATION.
8. BEFORE PERMIT APPROVAL AND CONSTRUCTION OF THIS PROJECT, THE APPLICANT MUST CONTACT THE FLORIDA DEPARTMENT OF TRANSPORTATION LOCAL MAINTENANCE OFFICE TO SCHEDULE A PRE–CONSTRUCTION MEETING. THE TELEPHONE NUMBER IS 954–776–4300 OR 1–800–300–8236.
9. THE APPLICANT AT THE EARLIEST CONVENIENT TIME SHALL NOTIFY IN WRITING ALL RIGHT–OF–WAY USERS AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
10. ALL MOT LANE CLOSURE SIGNS SHALL BE COVERED WHEN LANES ARE NOT CLOSED. NO LANES ARE TO BE CLOSED EXCEPT AT TIMES PRESCRIBED BY THE DEPARTMENT..
11. LIMEROCK BASE SHALL BE A MINIMUM OF 12" AND COMPACTED IN 6" LIFTS TO 98% MAXIMUM DENSITY ACCORDING TO AASHTO–T180. CONSTRUCTION TO CONFORM TO SECTION 200. BASE TO BE PRIMED AFTER COMPACTION.
12. STABILIZED SUBGRADE – MINIMUM 12" THICK AND COMPACTED TO 98% MAXIMUM DENSITY ACCORDING TO AASHTO–180. MATERIAL TO HAVE MINIMUM L.B.R. OF 40 AND CONFORM TO SECTION 160.
13. REMOVE ALL MUCK, OVERBURDEN, AND ROOT MATERIAL TO THE RIGHT–OF–WAY LINE, AND BACKFILL TO THE REQUIRED SUBGRADE WITH CLEAN, GRANULAR MATERIAL IN MAXIMUM 6" LIFTS COMPACTED TO 100% OF MAXIMUM DESNITY IN ACCORDANCE WITH AASHTO T99–C SPECIFICATIONS, AND EACH LIFT TESTED BEFORE PLACING NEXT LIFT.
14. ALL CURB CUT RAMPS MUST FACE IN THE DIRECTION OF PEDESTRIAN TRAVEL.
15. FLAGGERS MUST BE PRESENT DURING THE INGRESS AND EGRESS OF CONSTRUCTION VEHICLES TO AND FROM THE PROJECT SITE. WARNING SIGNS MUST BE ERECTED ADVISING MOTORISTS OF TRUCKS ENTERING THE HIGHWAY.

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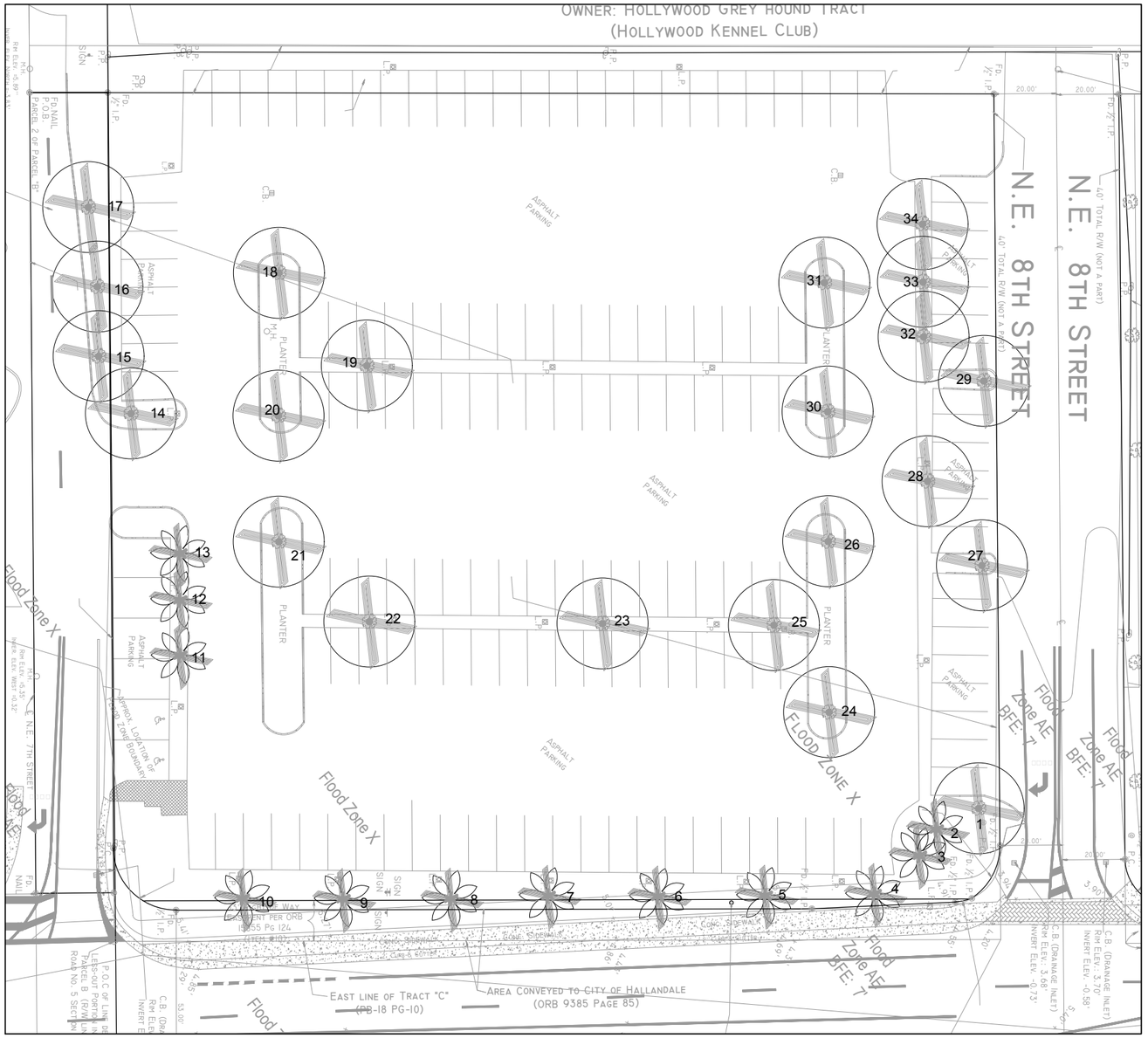
Sheet Title: GENERAL NOTES & SPECIFICATIONS

Job Title: VILLAGE AT ATLANTIC SHORES II
701 NORTH FEDERAL HIGHWAY
CITY OF HALLANDALE BEACH, BROWARD COUNTY, FLORIDA 33009

Phase: DRC PLANS

Revisions

Scale: NTS	Date 03/23/17
Job No. 15–1273.03	Plot Date 09/19/17
Drawn by DRS	Sheet No. C6
Proj. Engr. DRS	
Appr. by DRS	6 of 6



MITIGATION NOTE:
MITIGATION TOTAL CALIPER = 252"
TOTAL CALIPER PROVIDED = 203"

REMAINDER REPLACEMENT CALIPER 49" TO BE PAID INTO THE TREE FUND.

1

#	Name	*Botanical*	Caliper "	Size	Condition	Reason for Removal
1	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
2	Queen Palm	*Cocos plumosa*	8	12'ct	Poor	Proposed Site conflict
3	Queen Palm	*Cocos plumosa*	8	15 ct	Poor	Proposed Site conflict
4	Royal Palm	*Roystonea regia*	18	6' CT	Poor	Proposed Site conflict
5	Royal Palm	*Roystonea regia*	18	15' CT	Good	Proposed Site conflict
6	Royal Palm	*Roystonea regia*	18	20' CT	Good	Proposed Site conflict
7	Royal Palm	*Roystonea regia*	18	21 CT	Good	Proposed Site conflict
8	Royal Palm	*Roystonea regia*	18	25 CT	Good	Proposed Site conflict
9	Royal Palm	*Roystonea regia*	18	8' CT	Poor	Proposed Site conflict
10	Royal Palm	*Roystonea regia*	18	20' CT	Good	Proposed Site conflict
11	Sabal Palm	*Sabal palmetoo*	10	6' CT	Good	Overhead lines
12	Sabal Palm	*Sabal palmetoo*	10	6' CT	Good	Overhead lines
13	Sabal Palm	*Sabal palmetoo*	10	6' CT	Good	Overhead lines
14	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
15	Unknown	*DEAD*			DEAD	DEAD
16	Unknown	*DEAD*			DEAD	DEAD
17	Unknown	*DEAD*			DEAD	DEAD
18	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
19	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
20	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
21	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
22	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
23	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
24	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
25	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
26	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
27	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
28	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
29	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
30	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
31	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
32	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
33	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict
34	Live Oak	*Quercus viriginia*	14	20' x 20'	Good	Proposed Site conflict

3 **EXISTING TREE PLAN**

NORTH

0 20 40 60 feet
SCALE: 1" = 20'

1 **EXISTING TREE INVENTORY**

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VILLAGE AT ATLANTIC SHORES II

N.E. 7TH STREET AND N. FEDERAL HIGHWAY
HALLANDALE BEACH, FLORIDA

CLIENT: ATLANTIC VILLAGE 2, LLC

REV	DATE	DESCRIPTION
1	5/19/2017	CITY COMMENTS

DESIGN DELIVERABLE: **DRC SUBMITTAL**
ISSUE DATE: **03-16-17**

PROJECT NUMBER: **1338-160231**
DRAWN BY: NB
CHECKED BY: NB

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SHEET TITLE:
TREE DISPOSITION PLAN PLAN

SHEET NUMBER:
L-100

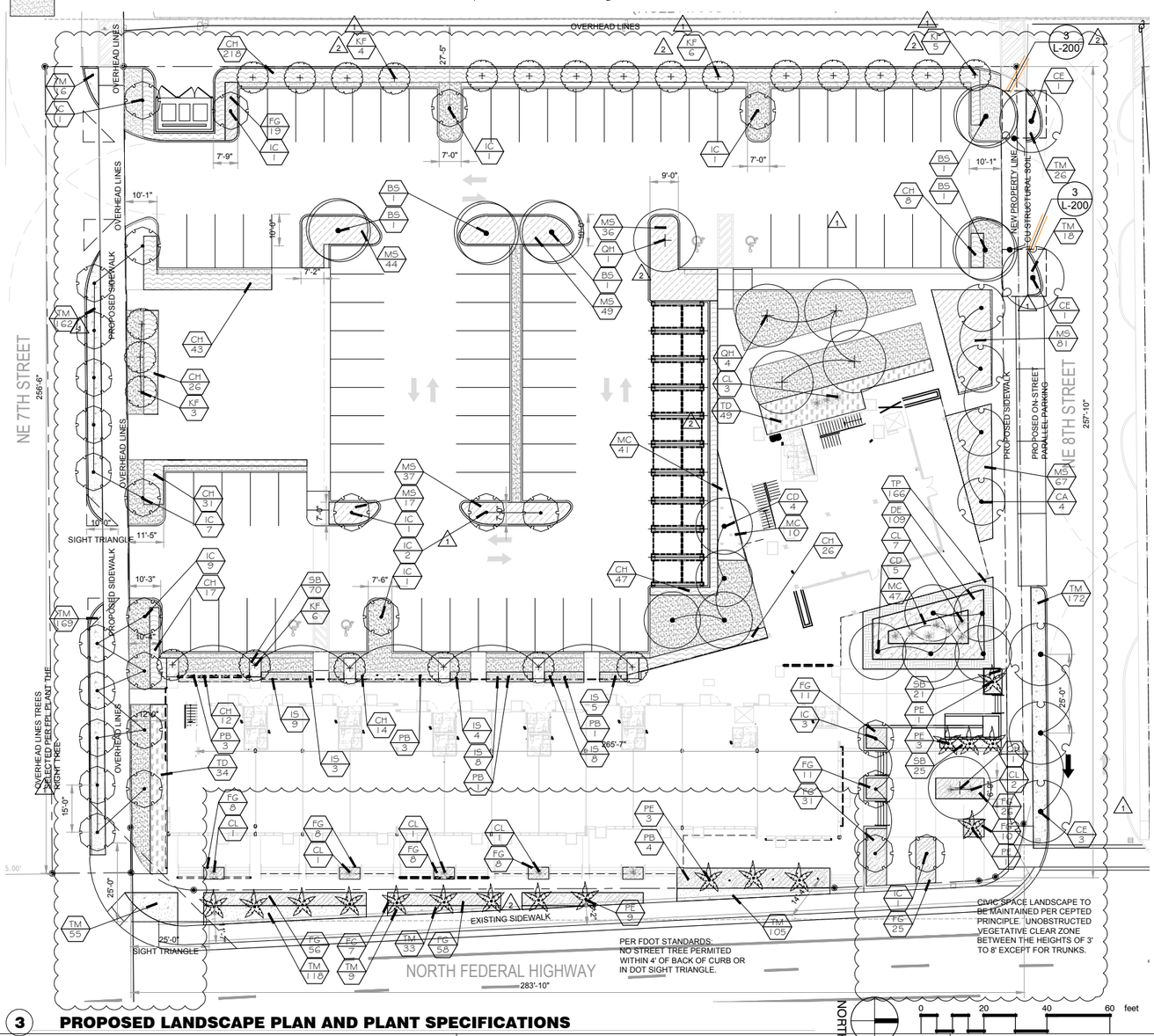
PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT	CALIPER	PLANTED SIZE	MATURE SIZE	DROUGHT	NATIVE
BS	5	Bursera simaruba / Gumbo Limbo	FG	4"Cal	15' STD	60' X 40'	HIGH	NATIVE
CA	4	Clusia rosea / Autograph Tree	FG	3"Cal	15' STD	25' X 15'	HIGH	NATIVE
CD	4	Coccoloba diversifolia / Pigeon Plum	FG	3"Cal	15' STD	40' x 20'	HIGH	NATIVE
CE	5	Conocarpus erectus / Green Buttonwood	FG	3"Cal	15' STD	40' x 35'	HIGH	NATIVE
IC	28	Ilex cassine / Dahoon Holly	FG	3"Cal	15' STD	20' X 15'	HIGH	NATIVE
KF	24	Krugiodendron ferreum / Black Ironwood	FG	3"Cal	15' STD	25' X 15'	HIGH	NATIVE
PE	17	Ptychosperma elegans / Alexander Palm	FG		20' OA	20' x 10'	HIGH	FDOT FRIENDLY
QH	6	Quercus virginiana / Live Oak	FG	3"Cal	15' STD	STD	HIGH	NATIVE

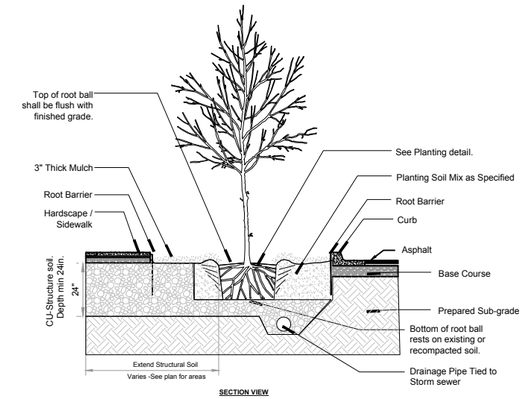
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	CONT	SIZE	NOTE	MATURE	DROUGHT	NATIVE
CL	17	Crinum asiaticum / Crinum lily	T gal	GREEN	36"	6' x 6'	MED	FL FRIENDLY
PB	12	Plumeria pudica 'Bridal Bouquet' / Frangipani	10 gal	8' OA	FULL	15' x 15'	HIGH	FL FRIENDLY

SHRUB AREAS	QTY	BOTANICAL NAME / COMMON NAME	CONT	CONT. HGT X W	NOTE	MATURE HGT X W	DROUGHT	NATIVE	SPACING
CH	442	Chrysobalanus icaco 'Horizontalis' / Cocoplum	3 gal	24"x24"	FULL	20' x 20'	MED	NATIVE	30" o.c.
DE	109	Duranta erecta 'Gold Mound' / Duranta	3gal	16"x16"	FULL	Maintained 30"	HIGH	NATIVE	24" o.c.
FG	386	Ficus microcarpa 'Green Island' / Green Island Ficus	3 gal	14"x14"	FULL	Maintained 36" or less	HIGH	FL-FRIENDLY	24" o.c.
IS	37	Ilex vomitoria 'Stokes Dwarf' / Dwarf Ilex	3 gal	18" x 18" FULL	ROUND BUSH	Maintained Rounded	HIGH	NATIVE	30" o.c.
MS	356	Microsorum scolopendrum / Wart Fern	3gal	18" x 18" FULL	FULL	3' x 3'	MED	FL-FRIENDLY	30" o.c.
MC	88	Muhlenbergia capillaris / Pink Muhly	3 gal	12" x 12"	FULL	2-4' H	HIGH	NATIVE	24" o.c.
SB	116	Spartina bakeri / Sand Cord Grass	1 gal	12" x 12"	FULL	24 x 24"	HIGH	NATIVE	18" o.c.
TM	853	Trachelospermum asiaticum 'Minima' / Minima Jasmine	1 gal	12" x 12"	FULL	Maintained < 18"	HIGH	FL-FRIENDLY	18" o.c.
TP	166	Tradescantia pallida / Purple Queen Spiderwort	1 gal	8" x 8"	FULL	12" Height	HIGH	FL-FRIENDLY	18" o.c.
TD	83	Tripsacum dactyloides nana / Dwarf Fakahatchee	3 gal	24"x24"	FULL	3' x 3'	HIGH	NATIVE	36" o.c.

GROUND COVERS	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT	HGT X W	NOTE	MATURE	DROUGHT	NATIVE	SPACING
CU STRUCTURAL SOIL	APPROX 500 SF 24" DEPTH(1000 cubic feet) For Root Growth for Street trees. SEE DETAIL 3 SHEET L-200									
	MM	24 sf	MULCH M Melaleuca / MULCH-Melaleuca	None	2-3" depth					
	SOD	4,810 sf	Stenotaphrum secundatum / St. Augustine Grass	flat						



3 **PROPOSED LANDSCAPE PLAN AND PLANT SPECIFICATIONS**



SECTION VIEW

3 STRUCTURAL SOIL W DRAIN PIPE

3/8" = 1'-0"

GENERAL LANDSCAPE NOTES:

- ROOT BARRIER SHALL BE USED IN ALL LANDSCAPE ISLANDS AND ALONG ALL PUBLIC SIDEWALKS WITH TREES. TEN LINEAR FEET PER TREE.
- ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER AS PER FLORIDA DEPARTMENT OF AGRICULTURE GRADES AND STANDARDS, -CURRENT EDITION
- TREES, PALMS, SHRUBS, GUARANTEED FOR ONE (1) YEAR
- APPLY 3" OF MELALEUCA MULCH (ARSENIC FREE) AROUND PLANTS PER FLORIDA FRIENDLY LANDSCAPING STANDARDS.
- CONTRACTOR PLANT SIZE IS THE MINIMUM ACCEPTABLE SIZE. IF PLANT AVAILABILITY IS LOW, ASSUME TO SIZE UP NOT DOWN.
- TREES ALONG SIDEWALKS SHALL REQUIRE 6' CLEAR TRUNK
- IRRIGATION PLANS SHALL BE SUBMITTED AT PERMITTING. IRRIGATION SHALL HAVE 100% COVERAGE, 100% OVERLAP AND WITH NO OVER-SPRAY ON SIDEWALKS. RAIN SENSOR SHALL BE PROVIDED.
- IF A DISCREPANCY OCCURS IN DRAWING QUANTITIES, LABEL, PLANT NAME, THE PLAN TAKES PRECEDENTS. CONTRACTOR TO MAKE OWNER/OWNER REPRESENTATIVE AND LANDSCAPE ARCHITECT AWARE OF ANY DISCREPANCY IN DRAWINGS.

2 **GENERAL NOTES**

Landscape Area Requirements		
Site	73,942	sqft
RAC Corridor SubDistrict	REQUIRED	PROVIDED
5% LANDSCAPE	3,697	12,296
1 TREE PER 1500 SQFT required	50	89.5
All trees 15' height min 3" cal		81
Palms 2:1		(17 Palms) 8.5 credit
Street trees	REQUIRED	PROVIDED
US 1	N/A FDOT	6 (palms 2:1)
8th Street 257'	10	10
7th Street 256.5'	10	10
TREE DIVERSITY 21-50 TREES	4	8
Drought tolerant trees	50%	100%
Native trees	50%	91%
Turf max 70%	8,607	4,916
hedge- drought	30%	100%
Mitigation Caliper replacement	252	203
Tree Fund	50" caliper	

1 **SITE CALCULATIONS**

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VILLAGE AT ATLANTIC SHORES II

N.E. 7TH STREET AND N. FEDERAL HIGHWAY
HALLANDALE BEACH, FLORIDA

CLIENT: ATLANTIC VILLAGE 2, LLC

REV	DATE	DESCRIPTION
1	7/18/2017	DRC COMMENTS
2	9/18/2017	CITY COMMENTS

DESIGN DELIVERABLE: **DRC SUBMITTAL**
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SHEET TITLE:
PROPOSED LANDSCAPE PLAN

SHEET NUMBER:
L-200