DRC
PZ22-12000027
12/03/2025

Public Works Department
HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION
1 N. University Drive, Box B300, Plantation, Florida 33324-2038 • 954-577-4555 • FAX 954-357-5715

Christopher Collins, P.E.
URBN Design
666 NE 125th Street, Suite 247
North Miami, FL 33161

July 25, 2024

RE: Festival Marketplace-NW 27th Ave right turn lane with sanitary sewer & MH connection
Plan Approval
Highway Construction and Engineering Division Ref. #200617002

Dear Mr. Collins,

Attached please find two (2) sets of the above referenced plan approved by this office on July 25, 2024 for construction improvements on ***NW 27th Avenue*** right of way. This approval is based primarily upon the information contained within these plans and any supporting documentation which you may have submitted.

If applicable standards, regulations or laws change after plan approval, but prior to permit issuance, revised plans must be submitted for approval under the new requirements.

Prior to commencing construction of the roadway and related improvements shown on the approved plans, a licensed engineering contractor will need to obtain a permit from this office. Prior to the contractor coming in to obtain said permit, the Engineer of Record shall provide the contractor with a copy of this letter, one set of stamped approved plans and advise them to ensure that the following are either in his/her possession or are on file in the Broward County Highway Construction and Engineering Division:

- Three (3) sets of shop drawings, signed and sealed by the Engineer of Record and approved by the Broward County Highway Construction and Engineering Division,

Please schedule an appointment with Etienne Joachim (954-577-4571) to coordinate this permit issuance.

When the contractor arrives for their scheduled appointment, they will be required to complete a permit application, if they have not done so prior to coming in for the appointment. The contractor will be required to show their contractor's license, proof of insurance and they will be required to post any required security prior to the issuance of a permit for the work. Any security filed with Broward County must be in acceptable form to Broward County prior to issuance of the permit.

The security for the off-site improvements shown on this plan is $143,175.00 and will be secured with the Improvement Agreement associated with the amendment to non-vehicular access line (NVAL) processed by the Plat Section.

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Please be advised that prior to commencing construction of any improvements within the county jurisdiction right of way, a maintenance of traffic plan approved by the Broward County Traffic Engineering Division must be on file with the Broward County Highway Construction and Engineering Division.

With respect to the sanitary sewer main and MH construction shown on this plan, this is to advise that this office approved the above referenced plan for the installation of said improvements.

Please be advised that prior to commencing construction of any improvements within the county jurisdiction right of way, a maintenance of traffic plan approved by the Broward County Traffic Engineering Division must be on file with the Broward County Highway Construction and Engineering Division.

Prior to commencing construction of the utility improvements shown on the approved plans, a licensed engineering contractor will need to obtain a permit from this office. Prior to the contractor coming in to obtain said permit, the Engineer of Record shall provide the contractor with a copy of this letter and advise them to ensure that the following are on file in the Broward County Highway Construction and Engineering Division:

1) Three (3) sets of shop drawings, signed and sealed by the Engineer of Record, signed by the Utility Company and approved by the Broward County Highway Construction and Engineering Division; and

2) An estimate of the cost of the sanitary sewer work, signed and sealed by the Engineer of Record who is licensed in the State of Florida. **This estimate shall be based on the sanitary sewer work within the County road right of way only.** This estimate shall include all costs associated with the project (i.e. labor, material costs, mobilization, maintenance of traffic, testing, etc.). **A permit fee (3.84% of the cost estimate) for the sanitary sewer construction will be collected at the time of permit application;** and

3) Florida Dept of Environmental Protection approval (for water) and/or Broward County Environmental Protection & Growth Management Dept approval (for sanitary sewer), **as applicable**

Please schedule an appointment with Etienne Joachim (954-577-4571) to coordinate this permit issuance.

When the contractor arrives for their scheduled appointment, they will be required to complete a permit application, if they have not done so prior to coming in for the appointment. They will be required to show their contractor's license, proof of insurance and be prepared to pay a permit fee.

Prior to construction of any improvements within the County right of way, the contractor will need to contact our Field Operations Coordinator at (954) 577-4600 to set up a pre-construction meeting.

If permits for construction of the work as shown in these plans are not obtained within one year from the date of approval of said plans, the plan approval granted herein shall be null and void. If work has not commenced within 180 days after issuance of a permit, the permit is null and void unless other arrangements have been made with this office. Prior to commencing construction, the contractor shall give the Broward County Highway Construction and Engineering Division a minimum of forty-eight (48) hour notice. Prior to scheduling any required tests and/or inspections, the contractor shall give the Broward County Highway Construction and Engineering Division a minimum of twenty-four (24) hour notice.

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While the job is in progress, a set of plans for the project bearing the Broward County Highway Construction and Engineering Division approval stamp and a copy of the signed permit must be on the job site. No work shall occur unless the plans and permit are available at the work site.

Prior to final inspection, the Engineer shall furnish one set of certified record drawings signed and sealed by both the Professional Engineer and the Professional Land Surveyor, to the Broward County Highway Construction and Engineering Division. The drawings submitted must bear the certification of the Engineer that the installation conforms substantially to the design, has passed all required tests, and that the inspection of the installation during construction was conducted under the supervision of the Engineer or their representative. All location information and dimensions shall be certified by a professional land surveyor registered in the State of Florida. Additionally, all required reports and certifications must be received by the Broward County Highway Construction and Engineering Division prior to final inspection. Record drawings shall indicate the following:

- Size, material, location and elevation of all underground utilities encountered during construction.
- The record drawings shall also contain all rim elevations, invert elevations and structure numbers.

After all construction is completed and all certifications, record drawings and other required documents have been submitted to the Broward County Highway Construction and Engineering Division, and accepted, the permittee shall request a final inspection of the project. Following the final inspection, if everything is acceptable, the Broward County Highway Construction and Engineering Division will issue a notice of acceptance/approval, which will mark the commencement of the one-year warranty maintenance period.

Very truly yours,

Alex Perez

Alex Perez, P.E., Supervisor
Paving & Drainage Section

DRC

PZ22-12000027
10/01/2025

B.C.H.C.E.D. REF. NO. 200617002

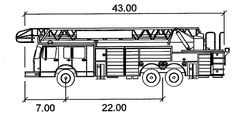
LEGEND

- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE HOSE LENGTH

NOTE

CONTRACTOR SHALL INSTALL "NO PARKING FIRE LANE BY ORDER OF POLICE AND FIRE" SIGNS EVERY 60' ALONG FIRE TRUCK PATH.

FIRE TRUCK LEGEND



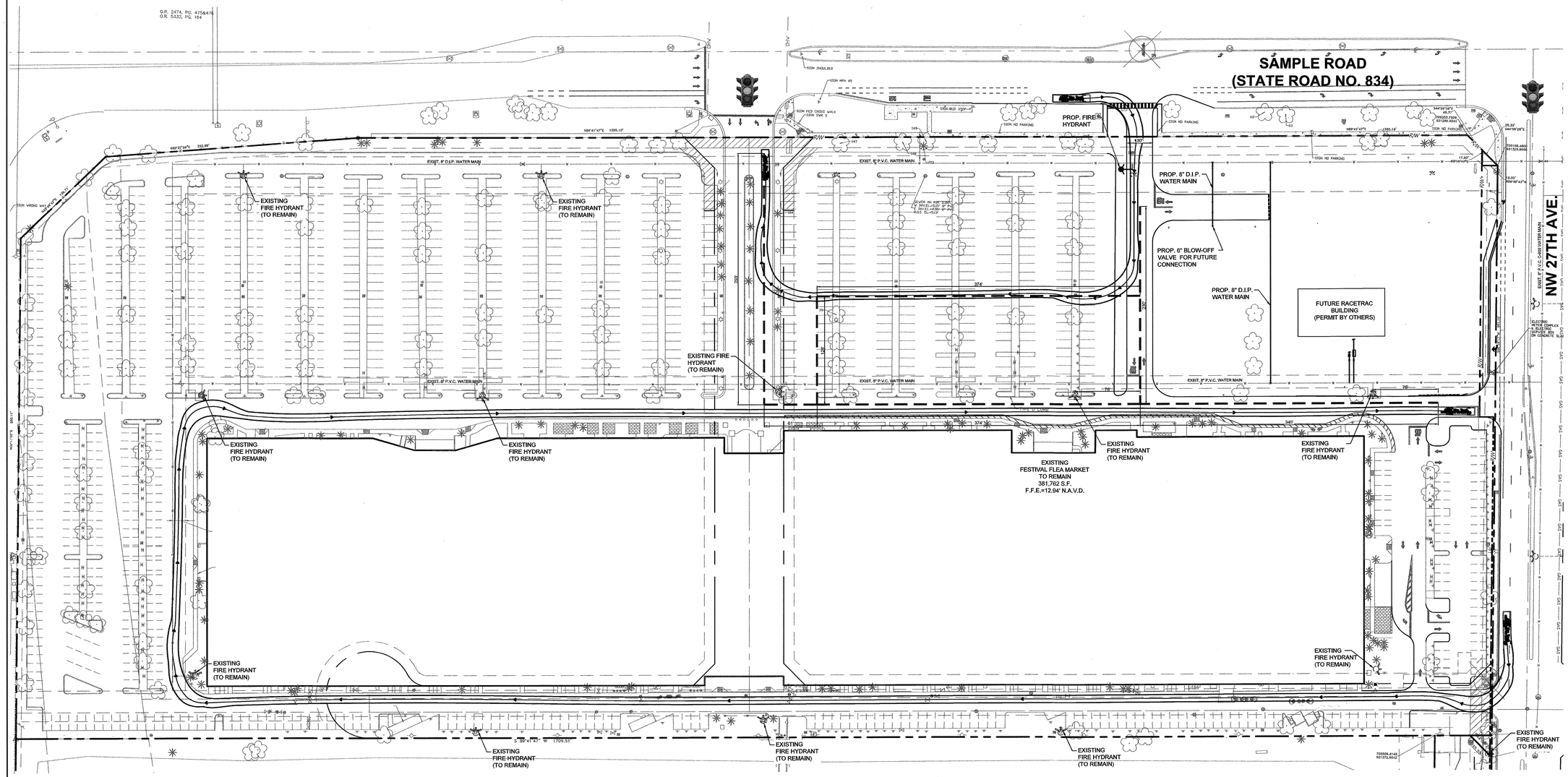
Aerial Fire Truck

	feet
Width	: 8.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 33.3

GRAPHIC SCALE

60 0 30 60 120

(IN FEET)
1 inch = 60 ft.



DRC
PZ22-12000027
12/03/2025

DESIGN

666 N.E. 125th STREET,
SUITE 247
NORTH MIAMI, FL 33161
Phone: 305.720.2079
C.O.A. 33221

CHRISTOPHER COLLINS, P.E.
REG# 73819
3/11/2024

This item has been digitally signed and sealed by Christopher P. Collins, P.E. on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronics copies.

Revision	Date
Comment	
Revision 5	Date
Comment	
Revision 4	Date
Comment	
Revision 3	Date
Comment	
Revision 2	Date
Comment	
Revision 1	Date
Comment	

Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	1" = 40'
Date:	05/25/2022
Job No.:	I002

© 2024

Plans for

FESTIVAL MARKETPLACE

2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

FIRE TRUCK ACCESS PLAN

Sheet No.

C-12.0

Sunshine811

Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.

Check positive response codes before you dig!

DRC
PZ22-12000027
10/01/2025

B.C.H.C.E.D. REF. NO. 200617002

DRC
PZ22-12000027
12/03/2025

URBN DESIGN

666 N.E. 125th STREET, SUITE 247
NORTH MIAMI, FL 33161
Phone: 305.720.2079
C.O.A. 33221

CHRISTOPHER PATRICK COLLINS, LICENSE No. 73819, STATE OF FLORIDA, PROFESSIONAL ENGINEER
CHRISTOPHER COLLINS, P.E. REG-# 73819
3/11/2024

This item has been digitally signed and sealed by Christopher P. Collins, P.E. on the date adjacent to the seal.

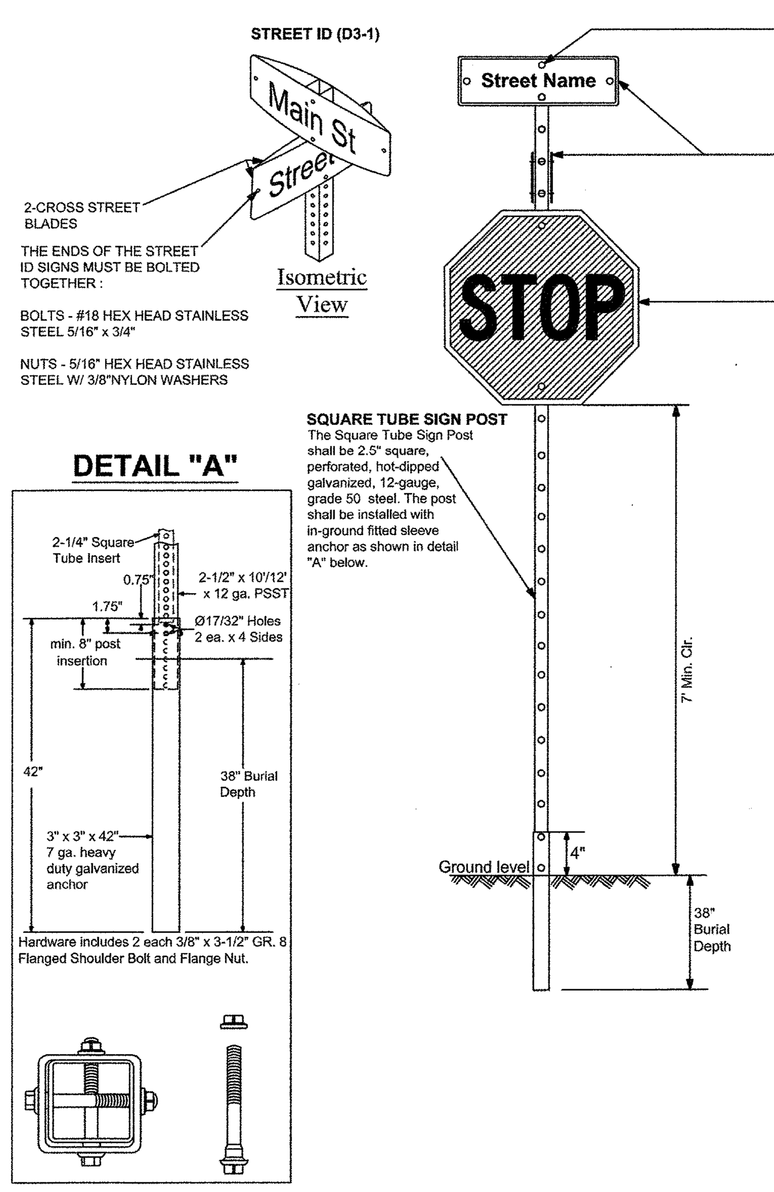
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronics copies.

STOP SIGN AND STREET IDENTIFICATION ASSEMBLY TYPICAL DETAILS

FOR SIGN ASSEMBLIES WITH MAXIMUM 8.75 SQUARE FOOT PANEL AREA

FOR SIGN ASSEMBLIES WITH GREATER THAN 8.75 SQUARE FOOT PANEL AREA WITH SUPPLEMENTAL SIGN

Typical Details



STREET ID (D3-1) MATERIALS:

LETTERS
WHITE TYPE XI SHEETING
LETTERING OF STREET NAME SIGNS SHALL BE COMPOSED OF A COMBINATION OF LOWERCASE LETTERS WITH INITIAL UPPERCASE LETTERS

BORDER
BORDER WIDTHS WILL VARY BASED ON LETTER HEIGHTS

LETTER HEIGHTS - BORDER WIDTHS
4 INCH LETTER = 0.375 INCH BORDER WIDTH
6 INCH LETTER = 0.500 INCH BORDER WIDTH
8 INCH LETTER = 0.750 INCH BORDER WIDTH

GREEN BACKGROUND
GREEN TRANSLUCENT INK SILK-SCREENED CLEAR-COATED OR ELECTRO-CUT (EC) FILM OR EQUIVALENT

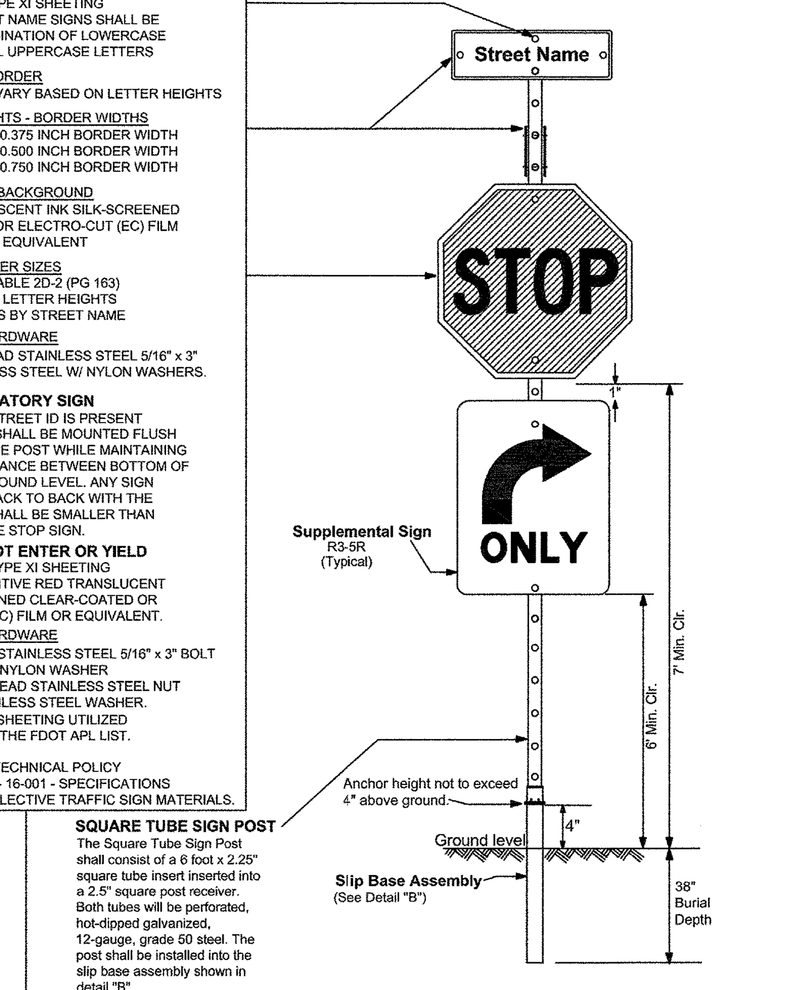
LETTER SIZES
SEE MUTCD TABLE 2D-2 (PG 163) FOR MINIMUM LETTER HEIGHTS
LENGTH VARIES BY STREET NAME

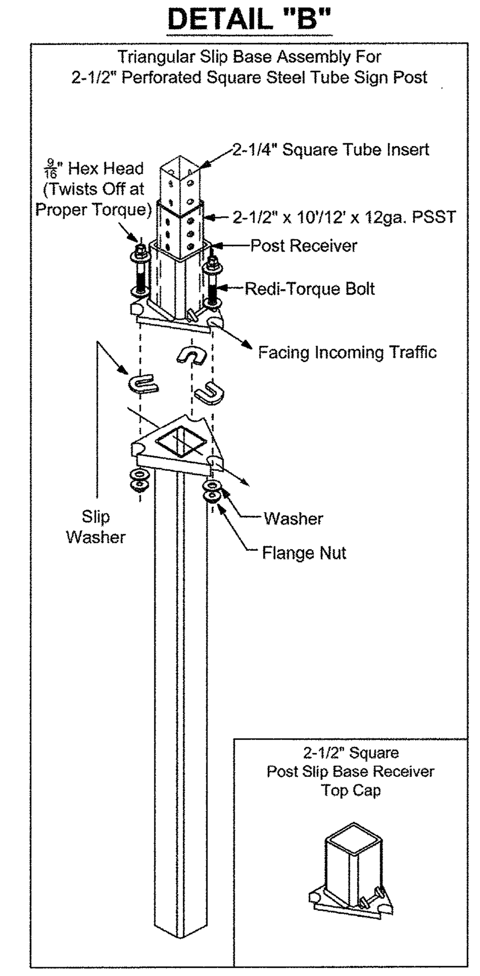
HARDWARE
BOLTS - #18 HEX HEAD STAINLESS STEEL 5/16" x 3"
NUTS - 5/16" STAINLESS STEEL W/ NYLON WASHERS.

REGULATORY SIGN
WHEN NO STREET ID IS PRESENT THE STOP SIGN SHALL BE MOUNTED FLUSH TO THE TOP OF THE POST WHILE MAINTAINING 7 FEET MIN. CLEARANCE BETWEEN BOTTOM OF SIGN AND GROUND LEVEL. ANY SIGN INSTALLED BACK TO BACK WITH THE STOP SIGN SHALL BE SMALLER THAN THE STOP SIGN.

STOP, DO NOT ENTER OR YIELD
WHITE TYPE XI SHEETING
PRESSURE-SENSITIVE RED TRANSLUCENT INK SILK-SCREENED CLEAR-COATED OR ELECTRO-CUT (EC) FILM OR EQUIVALENT.
HARDWARE
FRONT: #18 HEX HEAD STAINLESS STEEL 5/16" x 3" BOLT W/ 3/8" NYLON WASHER
BACK: 5/16" HEX HEAD STAINLESS STEEL NUT W/ 3/8" STAINLESS STEEL WASHER.

NOTES:
1. ALL TYPE XI SHEETING UTILIZED MUST BE ON THE FDOT APL LIST.
2. SEE BCTED TECHNICAL POLICY MEMO #TPM - 16-001 - SPECIFICATIONS FOR RETROFLECTIVE TRAFFIC SIGN MATERIALS.





Notes:

1. Dimensions and certain details for the parts used to assemble the slip base connections are intentionally not shown. Slip base connections are patented manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are only shown on this plan to illustrate how the parts are assembled. The complete assembly must be designed to withstand 150 mph Base Wind Speed per 2013 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th edition and interims.
2. For standard ground sign installation, see detail entitled " Ground Sign Assembly Details".

REVISIONS	
DATE	DESCRIPTION
02-28-2020	ADDED ISOMETRIC VIEW
02-05-2021	UPDATED POST BASE HEIGHT
06-22-2023	UPDATED SIGN POST NOTES

BROWARD COUNTY FLORIDA

PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION
DESIGN BY: CARMELO CARATOZZOLO, P.E. | SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR
CHECKED BY: CARMELO CARATOZZOLO, P.E.

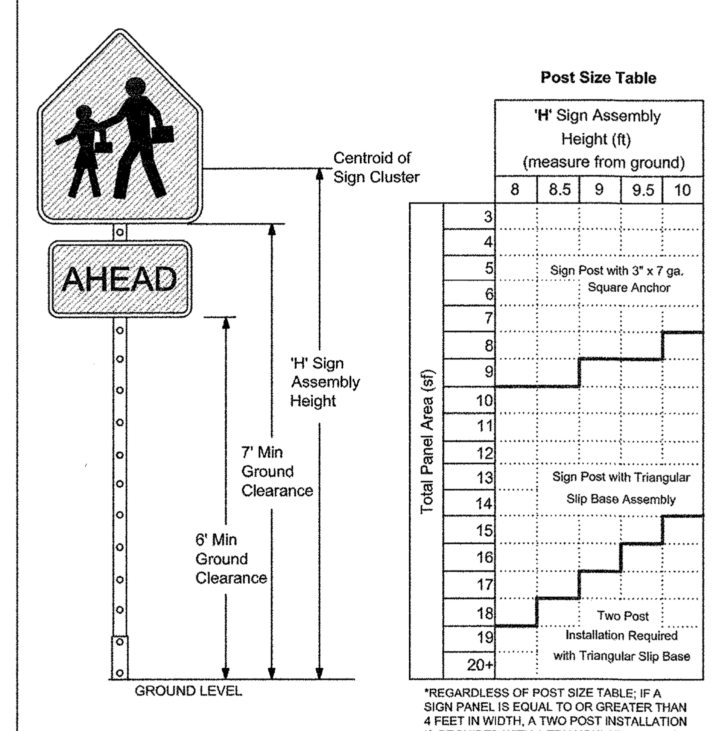
STOP SIGN AND STREET IDENTIFICATION ASSEMBLY TYPICAL DETAILS

SHEET NO. 1 OF 1

GROUND SIGN ASSEMBLY DETAILS

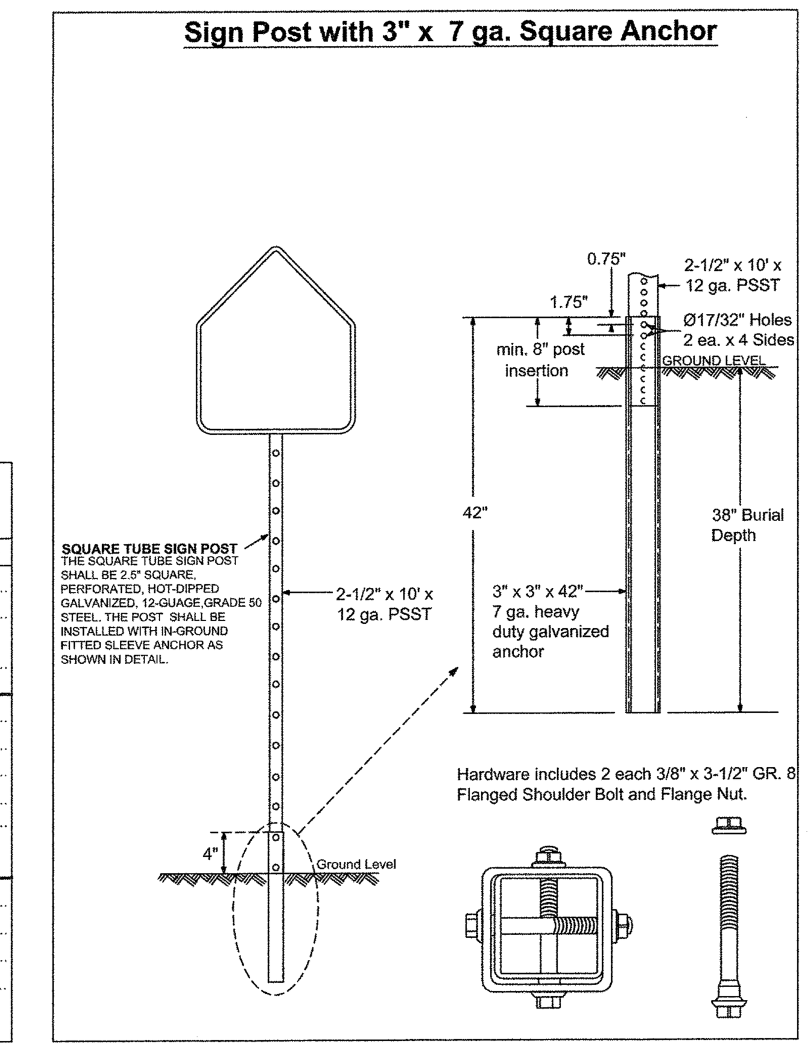
GUIDE TO USE THIS STANDARD:

1. Calculate the Total Panel Area and the centroid 'C' for an individual sign or a sign cluster.
2. Determine the height 'H' from the groundline for the individual sign or the cluster.
3. Consult the Post Size Table and find the intersection point.
4. Design the post and the foundation according to the required Post Size and Assembly Details.

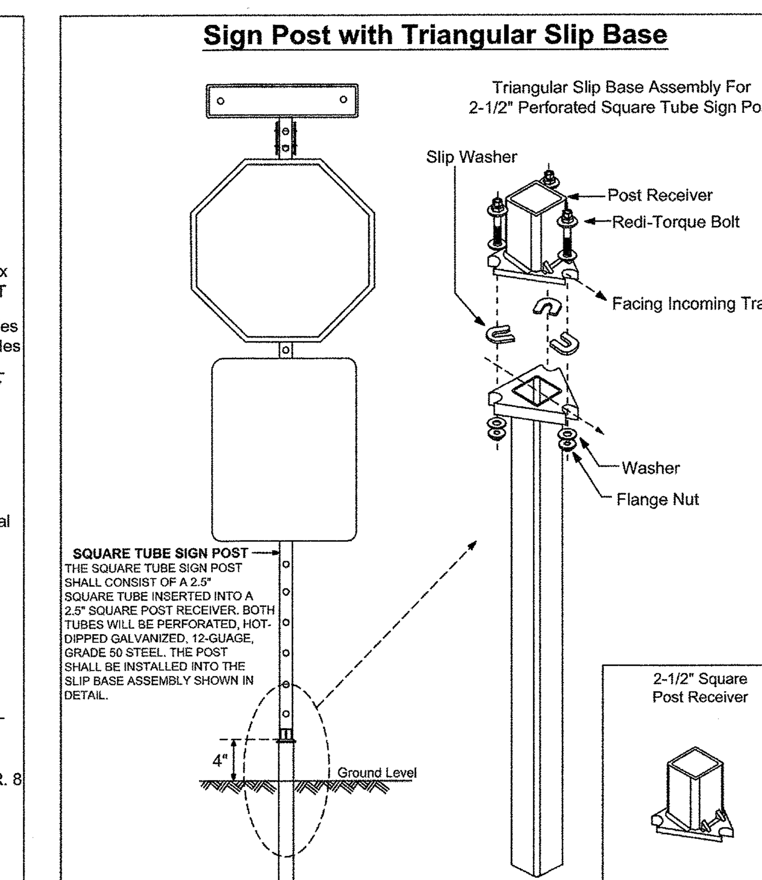


*REGARDLESS OF POST SIZE TABLE; IF A SIGN PANEL IS EQUAL TO OR GREATER THAN 4 FEET IN WIDTH, A TWO POST INSTALLATION IS REQUIRED WITH A TRIANGULAR SLIP BASE.

Sign Post with 3" x 7 ga. Square Anchor



Sign Post with Triangular Slip Base



Note: Dimensions and certain details for the parts used to assemble the slip base connections are intentionally not shown. Slip base connections are patented manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are only shown on this plan to illustrate how the parts are assembled. The complete assembly must be designed to withstand 150 mph Base Wind Speed per 2013 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th edition and interims.

REVISIONS	
DATE	DESCRIPTION
03-21-2017	UPDATED POST SIZE
11-24-2020	ADDED POST SIZE NOTE
02-05-2021	UPDATED POST BASE HEIGHT

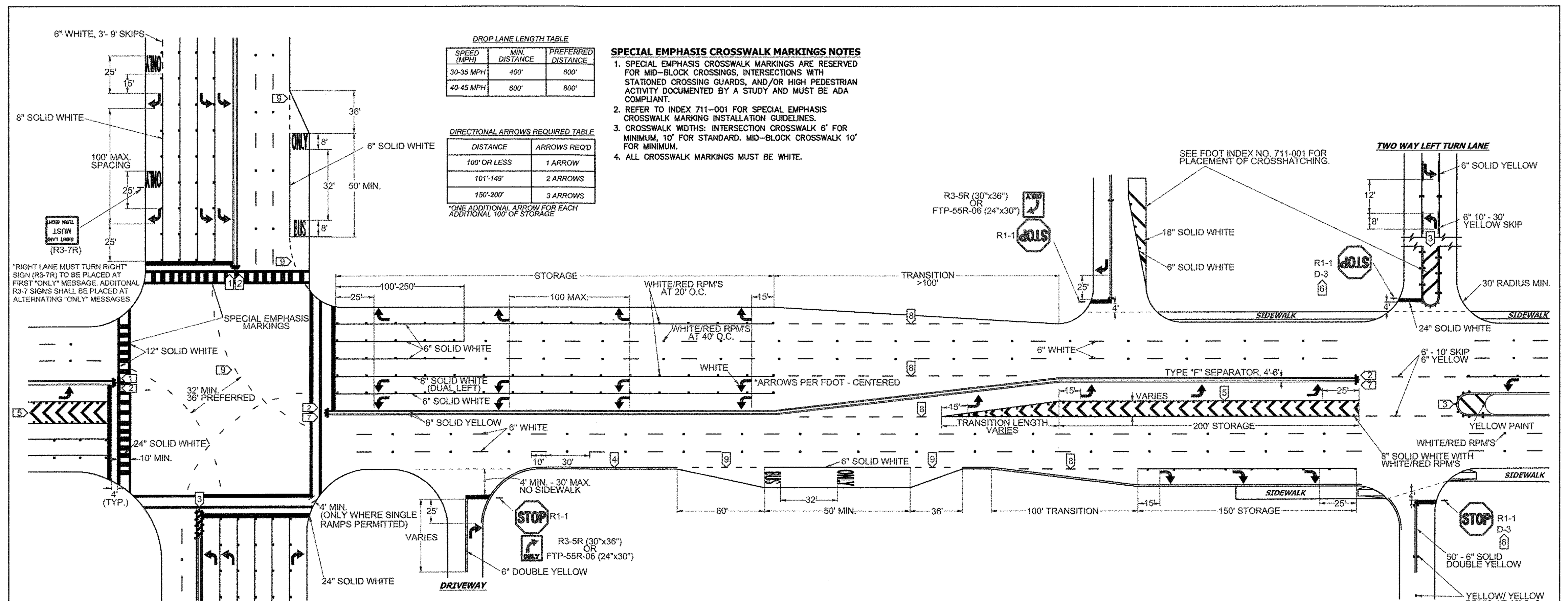
BROWARD COUNTY FLORIDA

PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION
DESIGN BY: YVES D'ANJOU, P.E. | SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR
CHECKED BY: ANDREW SEBO, P.E., PTOE

GROUND SIGN ASSEMBLY DETAILS

SHEET NO. 1 OF 1

PAVEMENT MARKINGS AND SIGNS DETAILS



DROP LANE LENGTH TABLE

SPEED (MPH)	MIN. DISTANCE	PREFERRED DISTANCE
30-35 MPH	400'	600'
40-45 MPH	600'	800'

DIRECTIONAL ARROWS REQUIRED TABLE

DISTANCE	ARROWS REQ'D
100' OR LESS	1 ARROW
101'-149'	2 ARROWS
150'-200'	3 ARROWS

*ONE ADDITIONAL ARROW FOR EACH ADDITIONAL 100' OF STORAGE

SPECIAL EMPHASIS CROSSWALK MARKINGS NOTES

1. SPECIAL EMPHASIS CROSSWALK MARKINGS ARE RESERVED FOR MID-BLOCK CROSSINGS, INTERSECTIONS WITH STATIONED CROSSING GUARDS, AND/OR HIGH PEDESTRIAN ACTIVITY DOCUMENTED BY A STUDY AND MUST BE ADA COMPLIANT.
2. REFER TO INDEX 711-001 FOR SPECIAL EMPHASIS CROSSWALK MARKING INSTALLATION GUIDELINES.
3. CROSSWALK WIDTHS: INTERSECTION CROSSWALK 6' FOR MINIMUM, 10' FOR STANDARD. MID-BLOCK CROSSWALK 10' FOR MINIMUM.
4. ALL CROSSWALK MARKINGS MUST BE WHITE.

NOTES

1. ALL PAVEMENT MARKINGS SHALL BE ALKYD BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED.
2. ALL PAVEMENT MARKINGS ON PAVER SYSTEMS SHALL BE 3M 380/381 SERIES TAPE OR EQUIVALENT AND APPLIED WITH P60 ADHESIVE AS PER MANUFACTURERS SPECIFICATIONS.
3. ALL PAVEMENT MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", BCTED STANDARDS, AND FDOT DESIGN STANDARDS.
4. SEE FDOT INDEX NO 706-001 FOR PLACEMENT OF RPM's (FOR BULLNOSE RPM TREATMENT, SEE LEGEND NO. 1)
5. RPM's SHALL BE CLASS "B" OR EQUIVALENT, APPLIED WITH EPOXY OR BITUMINOUS ADHESIVE.
6. FDOT APPROVED SEALER SHALL BE USED WHEN APPLYING MARKINGS ON CONCRETE.
7. FOR BIKE LANE DETAILS SEE FDOT INDEX NO. 711-002.
8. EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING OR SAND BLASTING.
9. ALL STOP LINES TO BE 4' BEHIND CROSSWALK OR SIDEWALK.
10. PAVEMENT MARKING REFLECTIVITY SHALL BE UNIFORM ACROSS THE ENTIRE STRIPE AND SHALL HAVE A MINIMUM REFLECTIVITY READING OF 250 MILLICANDELAS FOR WHITE AND 175 MILLICANDELAS FOR YELLOW.
11. ALL PRODUCTS MUST BE ON FDOT'S APPROVED PRODUCTS LIST (APL).
12. RPMS SHALL NOT BE INSTALLED ADJACENT TO BIKE LANES.
13. LONGITUDINAL CROSSWALK MARKINGS SHALL BE INSTALLED AT ALL CROSS STREETS ON COUNTY ROADS THAT ARE FOUR LANES OR GREATER.

LEGEND

1. **YELLOW/YELLOW RPM DETAILS** — DIRECTION OF TRAVEL; CENTERLINE; 1' OC, 1' MIN TO CROSSWALK; REFLECTIVE YELLOW
2. **MEDIAN NOSE PAINT DETAILS** — RAISED SEPARATOR; GRASS MEDIAN; POINT OF CURVE; REFLECTIVE YELLOW; RADIUS POINT; * DO NOT PAINT BRICK PAVERS
3. **PAINTED MEDIAN DETAILS** — DIRECTION OF TRAVEL; 6" SOLID DOUBLE YELLOW; 1' OC; YELLOW PAINT; 18" SOLID YELLOW; YELLOW/YELLOW RPM's
4. **EDGE LINE DETAILS** — 6" SOLID WHITE OR YELLOW; EDGE OF PAVEMENT; 2"
5. **CHEVRON DETAILS - CROSSWALK AREAS AND IN FRONT OF CURB RAMPS** — DIRECTION OF TRAVEL; WHITE/RED RPM's; 18" SOLID WHITE; 8" SOLID WHITE; (SEE FDOT INDEX NO. 17346 FOR SPACING OF CHEVRONS)
6. **STREET NAME BLADE DETAILS** — SEE BCTED STOP SIGN AND STREET IDENTIFICATION ASSEMBLY TYPICAL DETAILS.
7. **TYPE IV SEPARATOR DETIALS** — REFLECTIVE YELLOW PAINT; YELLOW/YELLOW RPM's; 2"; 6" - 12"; 6" SOLID YELLOW; TYPE "F" CURB AND GUTTER
8. **6'-10' SKIP DETAILS** — 6' - 10' SKIPS 6" WHITE SHALL BE USED FOR THE FOLLOWING CONDITIONS:
   - TRANSITIONS AT ALL LEFT AND RIGHT TURN LANES
9. **2'-4' SKIP DETAILS** — 2' - 4' SKIPS 6" WHITE SHALL BE USED FOR THE FOLLOWING CONDITIONS:
   - RADIUS GUIDE LINES BETWEEN DUAL LEFTS TURN MOVEMENT (90' RADIUS PREFERRED OR AS NOTED ON PLANS)
   - BUS BAY TRANSITIONS

STOP SIGN NOTE
WHERE SIDE ROADS INTERSECT A MULTI LANE STREET OR HIGHWAY THAT HAS A SPEED LIMIT OF 45 MPH OR HIGHER, THE MINIMUM SIZE OF THE STOP SIGNS FACING THE SIDE ROAD APPROACHES, EVEN IF THE SIDE ROAD ONLY HAS ONE APPROACH LANE, SHALL BE 36"X36".

WHERE SIDE ROADS INTERSECT A MULTI-LANE (INCLUDING TURN LANE) STREET OR HIGHWAY THAT HAS A SPEED LIMIT OF 40 MPH OR LOWER, THE MINIMUM SIZE OF THE STOP SIGN FACING THE SIDE ROAD APPROACHES SHALL BE 36"X36".

REVISIONS	
DATE	DESCRIPTION
11-24-2020	UPDATED NOTES
04-14-2021	UPDATED NOTES
05-06-2022	UPDATED NOTES

BROWARD COUNTY FLORIDA

PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION
DESIGN BY: CARMELO CARATOZZOLO, P.E. | SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR
CHECKED BY: CARMELO CARATOZZOLO, P.E.

PAVEMENT MARKINGS AND SIGNS DETAILS

SHEET NO. 1 OF 1

Revision	Date
6	
Comment	
5	
Comment	
4	
Comment	
3	
Comment	
2	
Comment	
1	
Comment	

Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	N.T.S.
Date:	05/25/2022
Job No.:	I002

© 2024

Plans for

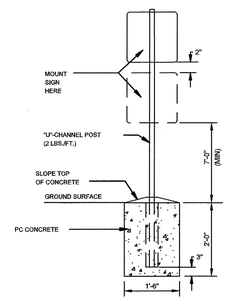
FESTIVAL MARKETPLACE
2900 W SAMPLE ROAD
POMPANO BEACH, FLORIDA

BROWARD COUNTY STANDARD DETAILS

Sheet No.
C-11.1

Sunshine 811
Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.
Check positive response codes before you dig!

DRC
PZ22-12000027
10/01/2025

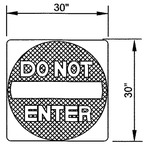


NOTE:
ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

STANDARD SIGN BASE

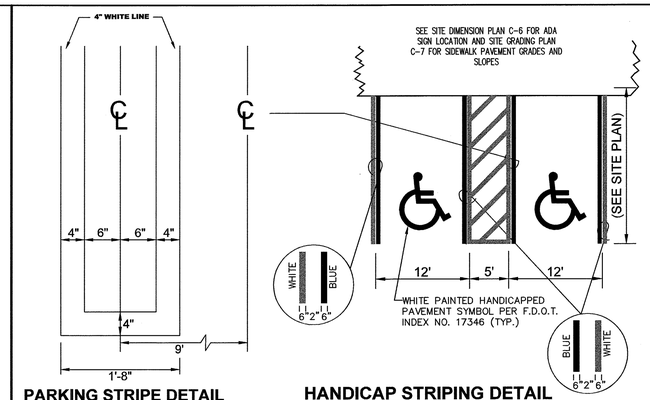
30" x 30" OR
24" X 24" (FOR ON SITE ONLY)
HIGH INTENSITY
R1-1

STOP SIGN



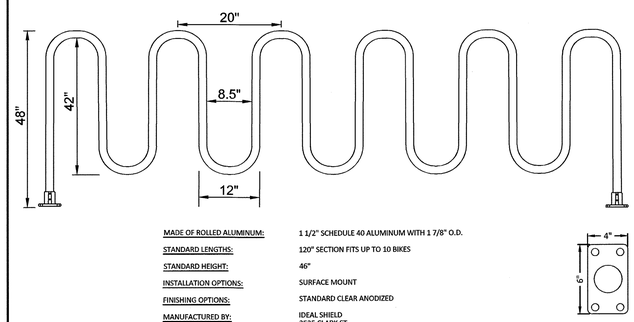
STANDARD RED AND WHITE SIGN
R5-1

"DO NOT ENTER" SIGN



PARKING STRIPE DETAIL
N.T.S.

HANDICAP STRIPING DETAIL
N.T.S.

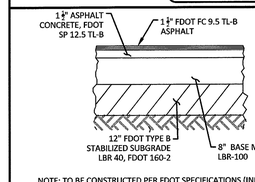


MADE OF ROLLED ALUMINUM:	1 1/2" SCHEDULE 40 ALUMINUM WITH 1 7/8" O.D.
STANDARD LENGTHS:	120" SECTION FITS UP TO 10 BIKES
STANDARD HEIGHT:	46"
INSTALLATION OPTIONS:	SURFACE MOUNT
FINISHING OPTIONS:	STANDARD CLEAR ANODIZED
MANUFACTURED BY:	IDEAL SHIELD 2525 CLARK ST DETROIT, MI 48209 PHONE: 1-866-825-8659

STANDARD (10) BICYCLE RACK DETAIL
N.T.S.

B.C.H.C.E.D. REF. NO. 200617002

NOTE:
ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST IMPLEMENTED EDITION OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS AND BROWARD COUNTY TRAFFIC ENGINEERING DIVISION CURRENT STANDARDS.



BASE:
1. FDOT SHELL ROCK, BANK RUN SHELL, LIMEROCK, CRUSHED CONCRETE OR CEMENT COQUINA BASE. LBR-100
2. BASE TO MEET LOCAL, FDOT, GEOTECHNICAL REPORT & FDOT SPECIFICATIONS

NOTE: TO BE CONSTRUCTED PER FDOT SPECIFICATIONS (INDEX 330-001)

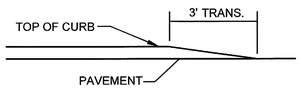
STANDARD DUTY ASPHALT PAVEMENT TYPICAL CROSS SECTION
N.T.S.

666 N.E. 125th STREET,
SUITE 247
NORTH MIAMI, FL 33161
Phone: 305.720.2079
C.O.A. 33221

CHRISTOPHER PATRICK COLLINS, P.E. LICENSE No. 73819 STATE OF FLORIDA PROFESSIONAL ENGINEER
CHRISTOPHER COLLINS, P.E. REG.# 73819
3/11/2024

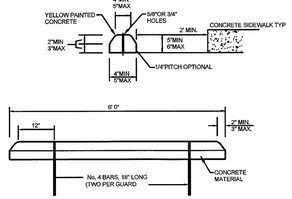
This item has been digitally signed and sealed by Christopher P. Collins, P.E. on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronics copies.



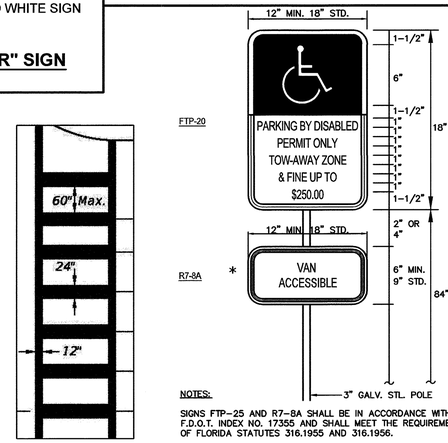
ELEVATION VIEW

3' HORIZONTAL CURB TRANSITION DETAIL
N.T.S.



WHEEL STOPS SHALL BE DEPARTMENT OF TRANSPORTATION CLASS "I" CONCRETE, WITH A COMPRESSIVE STRENGTH OF 3,000 PSI.

CONCRETE WHEEL STOP
N.T.S.

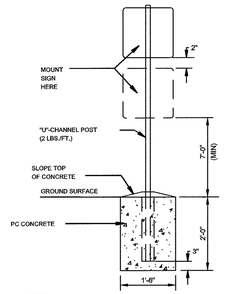


PER FDOT INDEX # 17346 (TYP)

CROSSWALK DETAIL
N.T.S.

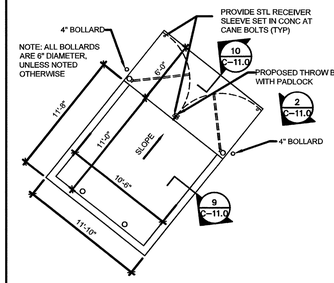
NOTES:
SIGNS FTP-25 AND R7-8A SHALL BE IN ACCORDANCE WITH F.D.O.T. INDEX NO. 17355 AND SHALL MEET THE REQUIREMENTS OF FLORIDA STATUTES 316.1955 AND 316.1956.
* SIGNS "$250.00 FINE" AND "R7-8A" PER LOCAL REQUIREMENTS.

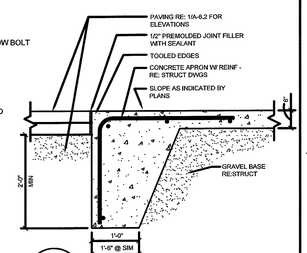
HANDICAP SIGN DETAIL
N.T.S.



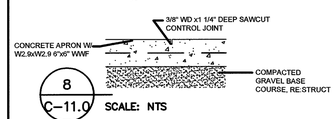
NOTE:
ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

STANDARD SIGN BASE
N.T.S.





10 C-11.0 SCALE: NTS



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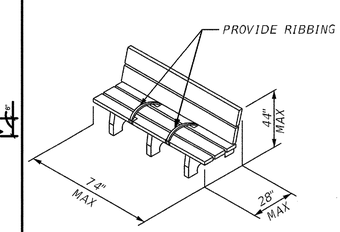


BENCH DETAIL
N.T.S.

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

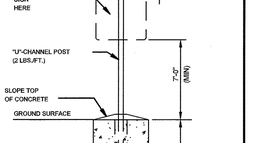
NOTICE
INSPECTION REQUIRED
24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A PERMIT FOR CONSTRUCTION MUST BE OBTAINED FROM THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION PRIOR TO COMMENCING CONSTRUCTION IN THE PUBLIC RIGHT OF WAY.

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

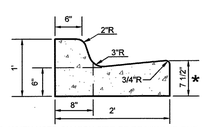
BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION
☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS
☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE
BY:_____DATE:_____
DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKING & SIGNS



GENERAL NOTES

1. FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT. EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURBS AND CONCRETE PAVEMENT ONLY.
2. THE CONCRETE FOR CURBS SHALL BE DEPARTMENT OF TRANSPORTATION CLASS "I" CONCRETE, AND HAVE A COMPRESSIVE STRENGTH OF 3000 PSI.
3. ALL CURBS SHALL HAVE CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'- 0" ON CENTERS FOR ALL CURBS.

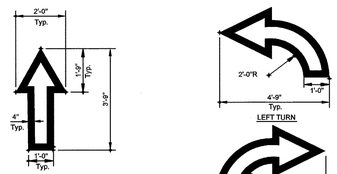
TYPE "D" CURB DETAIL
N.T.S.



* 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.

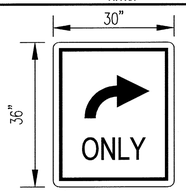
GENERAL NOTES:
1. THE CONCRETE FOR CURBS SHALL BE DEPARTMENT OF TRANSPORTATION CLASS "I" CONCRETE, AND HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI.
2. ALL CURBS SHALL HAVE CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'- 0" ON CENTERS FOR ALL CURBS.

STANDARD CONCRETE CURB & GUTTER
N.T.S.



NOTE: ALL TRAFFIC FLOW ARROWS TO BE REFLECTIVE YELLOW PAINT PER SPECS.

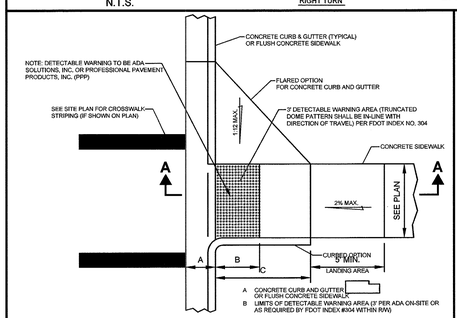
TRAFFIC FLOW ARROW
N.T.S.



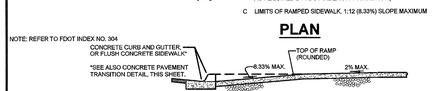
R3-5

BLACK LEGEND ON WHITE BACKGROUND

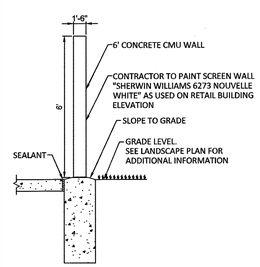
"RIGHT TURN ONLY" SIGN



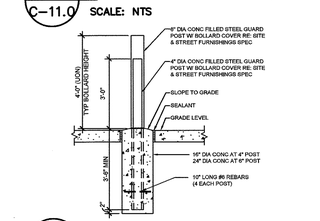
PLAN



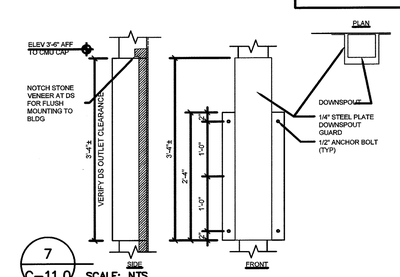
HANDICAP RAMP DETAIL SECTION A-A



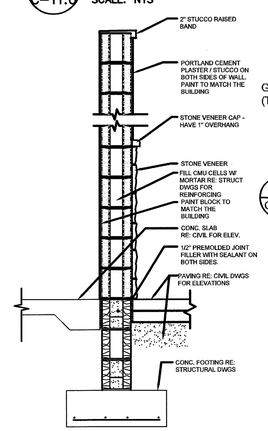
CONCRETE WALL DETAIL
N.T.S.



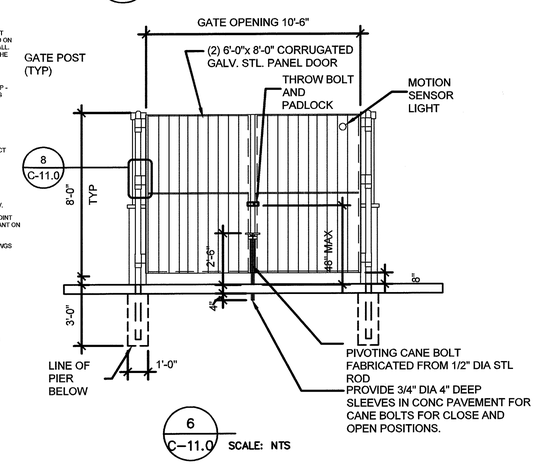
6 C-11.0 SCALE: NTS



7 C-11.0 SCALE: NTS

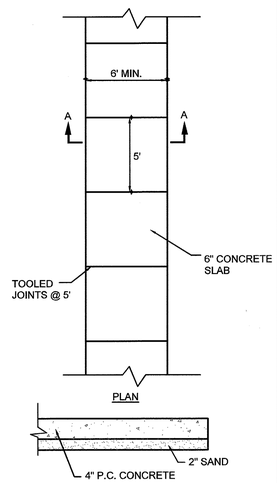


9 C-11.0 SCALE: NTS



6 C-11.0 SCALE: NTS

DUMPSTER ENCLOSURE DETAILS
N.T.S.



SECTION A-A
MINIMUM 3000 P.S.I. CONCRETE REQUIRED

NOTES:
1. 3/4"x4" PREMOLDED EXPANSION MATERIALS AROUND P.P. OR OTHER STRUCTURES IN WALK.
2. EXPANSION JOINTS MAXIMUM DISTANCE = 100', USED 3/4"x4" PREMOLDED EXPANSION MATERIAL.
3. CONTRACTION JOINTS MAXIMUM DISTANCE = 21', SAW CUT 2" DEEP AND FILL WITH HOT POURED SEALER.
4. SAW CUT JOINTS WITHIN 24 HOURS.

CONCRETE SIDEWALK DETAIL
N.T.S.

Sunshine811
Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.
Check positive response codes before you dig!

Revision 6	Date
Comment	
Revision 5	Date
Comment	
Revision 4	Date
Comment	
Revision 3	Date
Comment	
Revision 2	Date
Comment	
Revision 1	Date
Comment	
Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	N.T.S.
Date:	05/25/2022
Job No.:	I002

© 2024

Plans for

FESTIVAL MARKETPLACE
2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

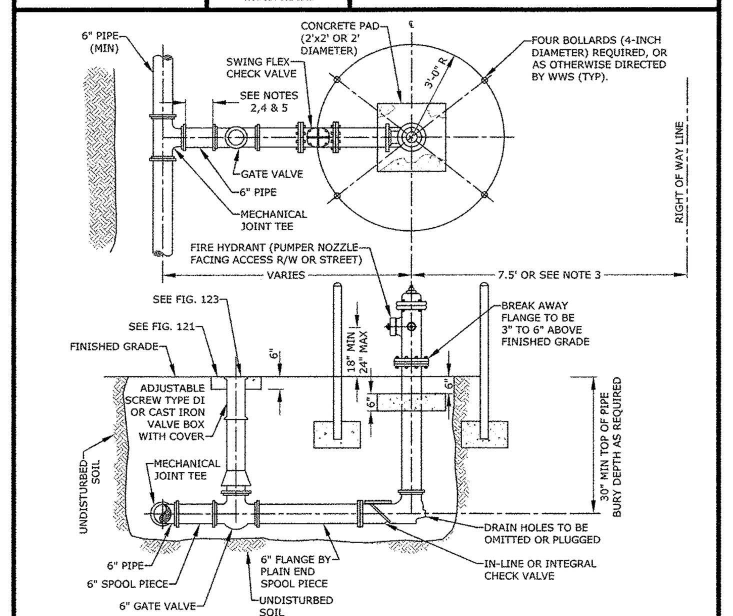
GENERAL DETAILS

Sheet No.
C-11.0

DRC
PZ22-12000027
12/03/2025
DRC
PZ22-12000027
10/01/2025

DRC
PZ22-12000027
12/03/2025

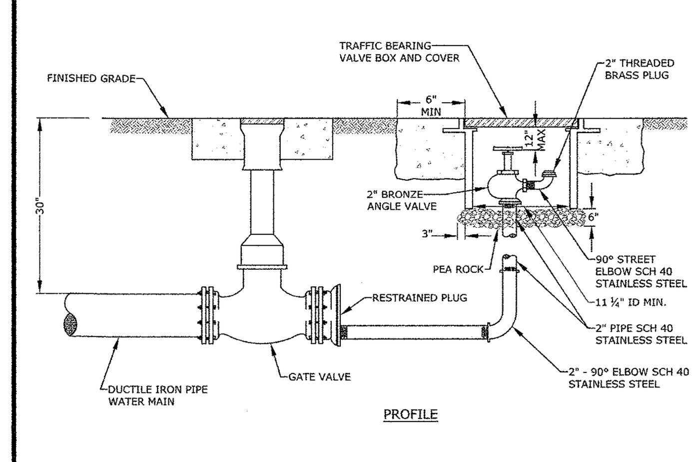
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — WATER & WASTEWATER SERVICES ENGINEERING DIVISION, 2555 WEST COPANS ROAD, POMPANO BEACH, FL 33069, PHONE NO. 954-831-0745, FAX: 954-831-0925 — STANDARD DETAIL



1. HYDRANT COATED WITH OSHA SAFETY YELLOW REFLECTIVE PAINT.
2. USE RESTRAINED JOINTS FOR THE ENTIRE ASSEMBLY SHOWN.
3. HYDRANT SET BACK SHALL CONFORM TO FDOT AND BCHCED REQUIREMENTS, WHERE APPLICABLE.
4. GATE VALVE IS NORMALLY LOCATED NEXT TO TEE.
5. IF DISTANCE FROM MAIN LINE TO FIRE HYDRANT IS GREATER THAN 20 FEET ANOTHER GATE VALVE WILL BE PROVIDED CLOSE TO THE HYDRANT. THIS SECOND VALVE SHALL BE INSTALLED WITHIN 5' OF THE FIRE HYDRANT. CHECK VALVE SHALL BE WITHIN 3' OF FIRE HYDRANT UNLESS CHECK VALVE INTEGRAL TO HYDRANT ASSEMBLY.
6. HYDRANT FEED PIPE MAY BE TAPPED FOR A SERVICE LINE UPSTREAM OF THE ISOLATION GATE VALVE.
7. A BLUE RAISED REFLECTIVE PAVEMENT MARKER SHALL BE PLACED AT THE CENTER LINE OF THE OUTSIDE ROADWAY LANE TO IDENTIFY THE FIRE HYDRANT LOCATION.

REVISED 7/7/2021	FIRE HYDRANT INSTALLATION	FIGURE 231

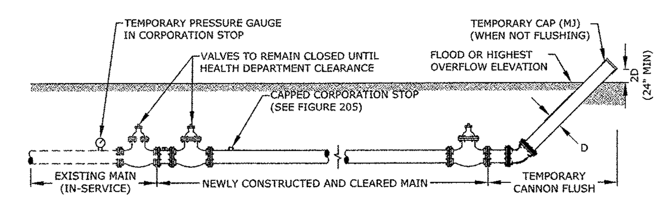
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL



1. 2" TAP IN BOTTOM OF PLUG.
2. USE RESTRAINED JOINT PIPE.
3. IN GRASS AREA USE CONCRETE COLLARS, 6" THICK.

REVISED 7/7/2021	MANUAL BLOW OFF	FIGURE 252

BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

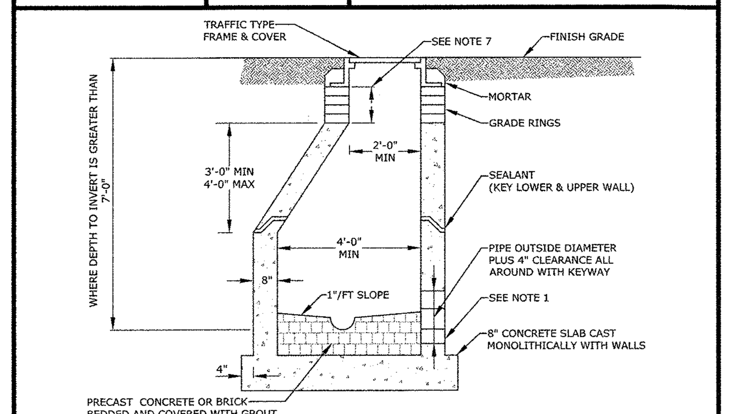


NOTES:

1. UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, ALL NEW WATER MAINS SHALL BE CANNON FLUSHED TO REMOVE DIRT AND ANY OTHER FOREIGN MATTER.
2. CANNON FLUSHING OF NEW WATER MAINS SHALL PROCEED ONLY AFTER HEALTH DEPARTMENT CLEARANCE IS RECEIVED.
3. CONTRACTOR IS CAUTIONED THAT GOVERNING AGENCIES OR UTILITIES MAY HAVE REGULATIONS LIMITING OR PROHIBITING DISCHARGE INTO SEWERS, SURFACE WATERS, CANALS, DITCHES AND OTHER CONVEYANCES/RETENTION AREAS. ALL COMPLIANCE WITH GOVERNING AGENCY REQUIREMENTS (INCLUDING PERMITTING, IF REQUIRED) IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. INSTALL A TEMPORARY 45° BEND AND ASSOCIATED TEMPORARY PIPING AS SHOWN TO DIRECT THE FLUSHING WATER AWAY FROM THE IMMEDIATE WORK AREA AND EXERCISE DUE CARE SO AS TO ENSURE THAT THE WATER USED IN FLUSHING DOES NOT CAUSE A NUISANCE OR INFLICT PROPERTY DAMAGE.
5. CONTRACTOR SHALL INSTALL A TEMPORARY PRESSURE GAUGE AT OR NEAR THE FILL AND FLUSH LOCATION. CONTRACTOR SHALL MONITOR AND MAINTAIN A MINIMUM PRESSURE OF 40 PSI AT ALL TIMES. THE FILL VALVE SHALL BE OPENED AND CLOSED SLOWLY TO AVOID RAPID PRESSURE CHANGES IN THE WATER SYSTEM.
6. BENDS AND PIPING SHALL BE THE SAME SIZE OR LARGER AS THE LINE BEING FLUSHED.
7. ALL PIPING SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH WWS STANDARDS.
8. FLUSHING LOCATIONS ARE TO BE PROPOSED BY CONTRACTOR AND APPROVED BY ENGINEER OF RECORD.
9. PRIOR TO THE ACTUAL LINE FLUSHING OPERATION THE CONTRACTOR SHALL SCHEDULE INTENDED WATER USE WITH WWS.
10. NO EXISTING VALVES SHALL BE OPERATED, EXCEPT BY AUTHORIZED WWS PERSONNEL.
11. FLUSHING SHALL NOT BE ACCOMPLISHED WITHOUT THE ACTUAL PRESENCE OF THE WWS INSPECTOR.
12. AFTER THE WATER MAIN UNDER CONSTRUCTION HAS BEEN SUCCESSFULLY FLUSHED, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY FACILITIES AND PROCEED WITH THE REMAINING CONSTRUCTION AS SPECIFIED. CLOSE CORPORATION STOPS AND PLUG/CAP WITH BRASS FITTINGS.

REVISED 7/7/2021	CANNON FLUSHING FOR NEWLY CONSTRUCTED WATER MAINS	FIGURE 255

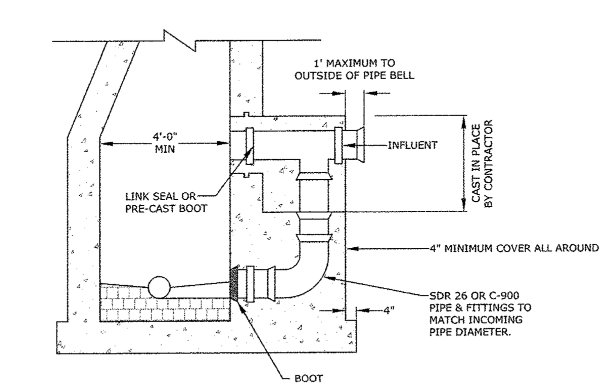
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL



1. MAINTENANCE ACCESS STRUCTURE ADAPTOR COUPLING NEOPRENE BOOT OR APPROVED EQUAL ARE REQUIRED FOR ALL PIPE MATERIAL OR AS APPROVED BY WWS.
2. MAINTENANCE ACCESS STRUCTURE WALLS TO BE SEAL COATED INSIDE AND OUTSIDE WITH 16 MIL. THICKNESS OF COAL TAR EPOXY. THE 1st COAT IS RED AND THE 2nd COAT IS BLACK.
3. LIFT HOLES ARE NOT ALLOWED.
4. ALL OPENINGS SHALL BE SEALED WITH WATERPROOF EXPANDING GROUT. SEE FIG. 322.
5. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MAINTENANCE ACCESS STRUCTURE TO DIRECT INFLUENT INTO FLOW STREAM.
6. ALL CONCRETE SHALL BE TYPE II CEMENT, MEETING LATEST ASTM REQUIREMENTS AND PROVIDED WITH LABORATORY CERTIFICATION ON PRECAST STRUCTURES.
7. THE CHIMNEY AREA SHALL BE MINIMUM OF 4" AND A MAXIMUM OF 12" IN HEIGHT. A MINIMUM OF 3 GRADE RINGS SHALL BE INSTALLED. SET IN 2 STRIPS OF BUTYL JOINT SEALANT STRIPS ON EACH SEALING FACE.
8. SET MAINTENANCE ACCESS STRUCTURE FRAME ON 2 STRIPS OF BUTYL JOINT SEALANT STRIPS PLUS A BED OF PORTLAND CEMENT AND SILICA SAND. APPLY MORTAR ON INSIDE AND OUTSIDE BUTYL JOINT SEALANT.
9. APPLY MORTAR COATING TO INSIDE AND OUTSIDE OF CHIMNEY. BRING MORTAR UP AND OVER FRAME. (SEE NOTE 10 BELOW.)
10. IF CONSHIELD ANTI-MICROBIAL AGENT IS USED IN THE CONCRETE OR MORTAR MIX, INTERIOR COATINGS MAY BE ELIMINATED.

REVISED 7/7/2021	PRECAST MAINTENANCE ACCESS STRUCTURE	312

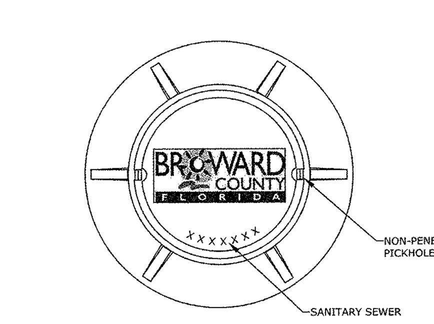
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL



1. THE MANUFACTURER'S PORTION OF THE CONCRETE ENCASEMENT FOR THE DROP CONNECTION SHALL BE POURED INTEGRALLY WITH BOTH THE MAINTENANCE ACCESS STRUCTURE SLAB AND WALL.
2. DROP CONNECTIONS SHALL BE REQUIRED WHENEVER AN INFLUENT SEWER IS LOCATED TWO (2) FEET OR MORE ABOVE THE MAIN INVERT CHANNEL.
3. ALL REQUIREMENTS FOR PRECAST MAINTENANCE ACCESS STRUCTURE WITHOUT DROP CONNECTIONS WILL ALSO APPLY TO PRECAST MAINTENANCE ACCESS STRUCTURE WITH DROP CONNECTIONS. SEE PRECAST MAINTENANCE ACCESS STRUCTURE STANDARD DETAIL FOR OTHER REQUIREMENTS.
4. ALL PIPE TO BE SAME DIAMETER AS INFLUENT SEWER MAIN.
5. APPLY MORTAR COATING TO INSIDE AND OUTSIDE OF CHIMNEY. BRING MORTAR UP AND OVER FRAME. (SEE NOTE 10. BELOW.)
6. IF CONSHIELD ANTI-MICROBIAL AGENT IS USED IN THE CONCRETE OR MORTAR MIX, INTERIOR COATINGS MAY BE ELIMINATED.

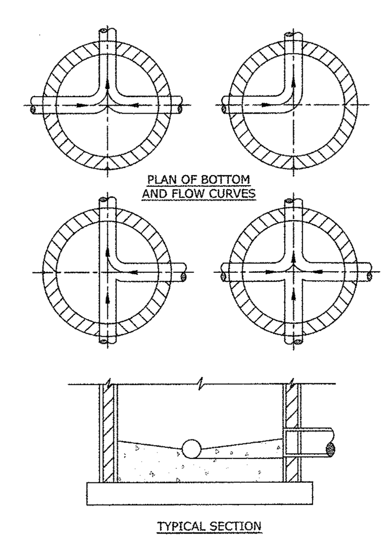
REVISED 7/7/2021	PRECAST MAINTENANCE ACCESS STRUCTURE DROP CONNECTION TYPE 1	FIGURE 313

BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL



REVISED 7/7/2021	GRAVITY SEWER MAINTENANCE ACCESS STRUCTURE COVER	FIGURE 315

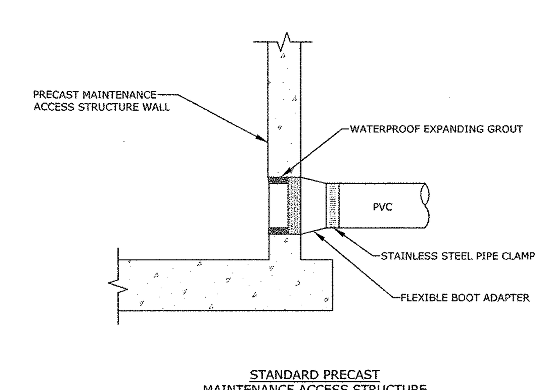
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL



1. PROVIDE SPILLWAY FOR SMOOTH FLOW BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS.
2. SLOPE MAINTENANCE ACCESS STRUCTURE SHELF 1"/FT FROM MAINTENANCE ACCESS STRUCTURE WALL TO CHANNEL.
3. INVERT CHANNEL TO BE CONSTRUCTED FOR SMOOTH FLOW WITH NO OBSTRUCTIONS.
4. CHANNEL SHALL BE PRECAST CONCRETE OR FILLED WITH BRICK COVERED WITH 1" OF MORTAR.

REVISED 7/7/2021	INVERT CHANNEL FLOW DIRECTIONS	FIGURE 318

BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

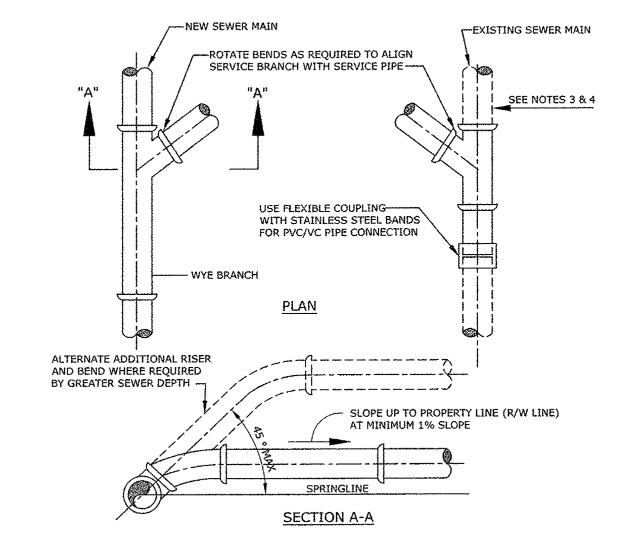


STANDARD PRECAST MAINTENANCE ACCESS STRUCTURE PIPE CONNECTION

WWS MAY APPROVE ALTERNATE WATER TIGHT CONNECTION.

REVISED 7/7/2021	MAINTENANCE ACCESS STRUCTURE CONNECTION DETAIL	FIGURE 322

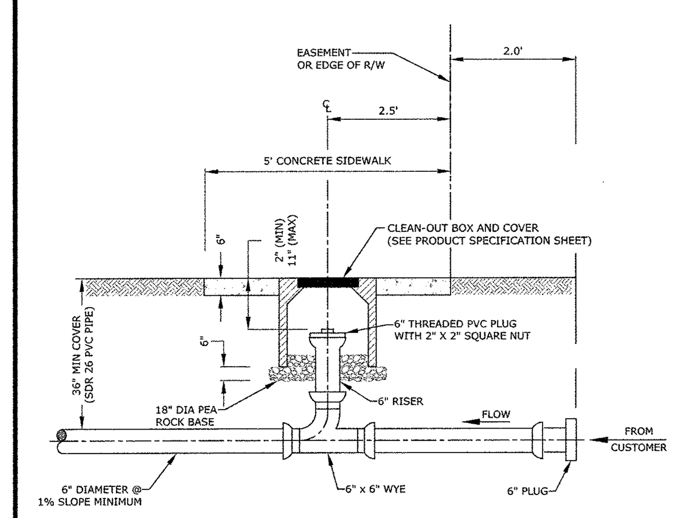
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL



1. SINGLE SERVICE CONNECTIONS SHALL USE 6" SDR 26 PVC PIPE AND FITTINGS.
2. SINGLE SERVICE CONNECTIONS BELOW 12' DEPTH SHALL BE C-900 PVC UNTIL LESS THAN 12 FOOT DEPTH.
2. USE RISER CONNECTIONS WHERE INVERT OF SEWER IS MORE THAN 7'-0" DEEP.
3. WHERE BELL OF WYE AND SPIGOT OF EXISTING MAIN ARE NOT COMPATIBLE, USE A SECOND FLEXIBLE COUPLING.
4. RIGID COUPLINGS MAY BE USED IN LIEU OF FLEXIBLE COUPLINGS.
5. MAINTAIN 36" MINIMUM COVER FROM TOP OF SERVICE TO FINISH GRADE; WHERE NOT TECHNICALLY FEASIBLE CONTACT WWS ENGINEERING.
6. PVC SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH MINIMUM STANDARDS OF THE UNI-BELL HANDBOOK OF PVC PIPE DESIGN AND CONSTRUCTION, LATEST EDITION.

REVISED 7/7/2021	WYE SEWER SERVICE CONNECTION	FIGURE 331

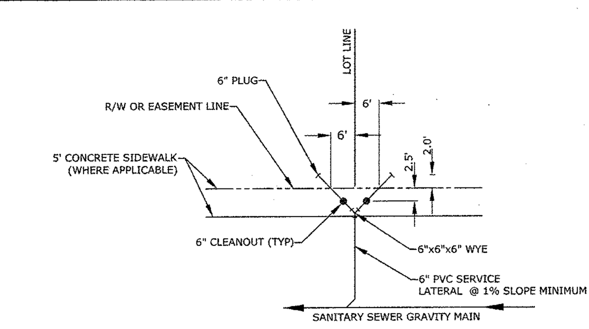
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL



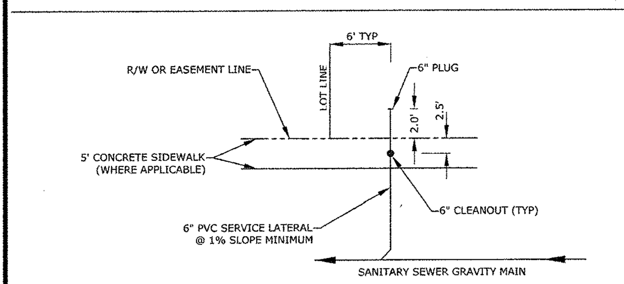
1. THE CLEAN OUT SHALL BE INSTALLED IN THE MIDDLE OF THE SIDEWALK. THIS DIMENSION WILL VARY DEPENDING UPON THE WIDTH OF THE SIDEWALK. 2.5' APPLIES TO 5' SIDEWALK WIDTH. IF SIDEWALKS DO NOT EXIST, THE CLEAN OUT SHALL BE INSTALLED 2.5' FROM THE RIGHT OF WAY LINE.
2. A NEW SECTION OF SIDEWALK SHALL BE POURED AROUND THE CLEAN-OUT BOX WHEN WORKING IN AN AREA WITH EXISTING SIDEWALKS.
3. IN GRASS AREA USE 24"x24" OR 24" DIAMETER CONCRETE COLLAR.

REVISED 7/7/2021	SEWER SERVICE CONNECTION AT PROPERTY LINE OR EASEMENT LINE PROFILE	FIGURE 341

BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL



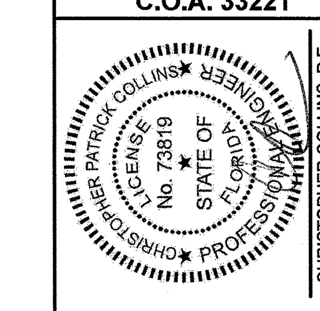
TYPICAL DOUBLE SERVICE LATERAL DETAIL
NTS



TYPICAL SINGLE SERVICE LATERAL DETAIL
NTS

REVISED 7/7/2021	SEWER SERVICE CONNECTION AT PROPERTY LINE OR EASEMENT LINE PLAN	FIGURE 342

URBN DESIGN
666 N.E. 125th STREET, SUITE 247
NORTH MIAMI, FL 33161
Phone: 305.720.2079
C.O.A. 33221



09/05/2023

This item has been digitally signed and sealed by Christopher P. Collins, P.E. on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronics copies.

Revision	Date	Comment
6		
5		
4		
3		
2	09/26/2022	WWS DESIGN REVIEW 09.19.2022
1	09/06/2022	WWS DESIGN REVIEW 08.22.2022

Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	N.T.S.
Date:	08/22/2022
Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE

2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

UTILITY DETAILS

Sheet No.
C-10.4

Sunshine 811
Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.
Check positive response codes before you dig!

DRC
PZ22-12000027
10/01/2025

DRC
PZ22-12000027
12/03/2025

BROWARD COUNTY PUBLIC WORKS DEPARTMENT | WATER & WASTEWATER SERVICES ENGINEERING DIVISION 2555 WEST COPANS ROAD POMPANO BEACH, FL 33069 PHONE NO. 954-831-0745 FAX: 954-831-0925 | STANDARD DETAIL

1. PRIOR TO BEGINNING ANY WORK, CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES THAT HAVE FACILITIES WITHIN THE PROJECT AREA.
2. THE ABOVE NOTICE SHALL APPEAR ON THE COVER SHEET OF ALL CONSTRUCTION PLANS SUBMITTED TO THE COUNTY.

REVISED 7/7/2021 | UTILITY LOCATES | FIGURE 101

BROWARD COUNTY PUBLIC WORKS DEPARTMENT | WATER & WASTEWATER SERVICES ENGINEERING DIVISION 2555 WEST COPANS ROAD POMPANO BEACH, FL 33069 PHONE NO. 954-831-0745 FAX: 954-831-0925 | STANDARD DETAIL

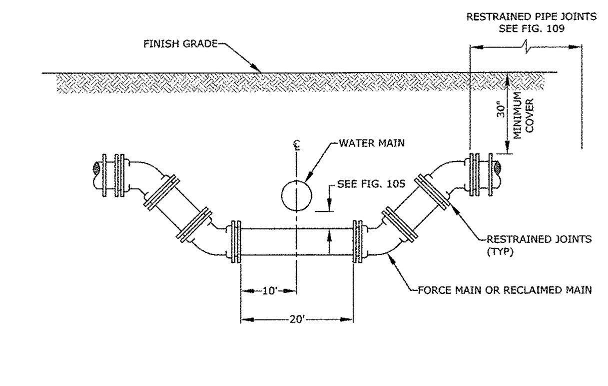
WATER MAIN SEPARATION IN ACCORDANCE WITH F.A.C. RULE 62-555.314

OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1) (4)	JOINT SPACING @ CROSSINGS (FULL JOINT CENTERED)
STORM SEWER, STORM WATER FORCE MAIN, RECLAIMED WATER (2)	Water Main; 3 ft. minimum	Water Main; 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum; Water Main
VACUUM SANITARY SEWER	Water Main; 10 ft. preferred; 3 ft. minimum	Water Main; 12 inches preferred; 6 inches min	Alternate 3 ft. minimum; Water Main
GRAVITY SANITARY SEWER,(3) SANITARY SEWER FORCE MAIN, RECLAIMED WATER	Water Main; 10 ft. preferred; 6 ft. minimum	Water Main; 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 6 ft. minimum; Water Main
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	10 ft. minimum	—	—

(1) WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
(2) RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
(3) 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
(4) 18" VERTICAL MINIMUM SEPARATION REQUIRED BY WWS, UNLESS OTHERWISE APPROVED.

REVISED 7/7/2021 | WATER MAIN SEPARATION | FIGURE 105

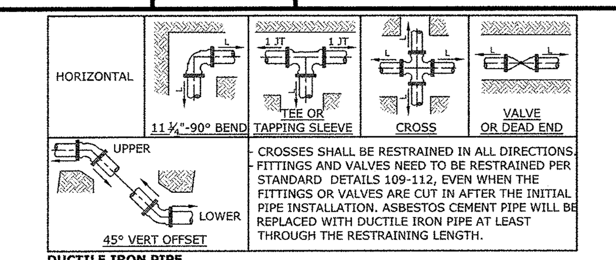
BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL



WHEREVER POSSIBLE DEFLECTION OF THE PIPE WILL BE USED TO AVOID EXISTING OBSTRUCTIONS. THIS CROSSING SHALL BE USED ONLY WHEN APPROVED BY WWS.

REVISED 7/7/2021 | SPECIAL UTILITY CROSSING | FIGURE 107

BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL



- CROSSES SHALL BE RESTRAINED IN ALL DIRECTIONS.
- FITTINGS AND VALVES NEED TO BE RESTRAINED PER STANDARD DETAILS 109-112, EVEN WHEN THE FITTINGS OR VALVES ARE CUT IN AFTER THE INITIAL PIPE INSTALLATION. ASBESTOS CEMENT PIPE WILL BE REPLACED WITH DUCTILE IRON PIPE AT LEAST THROUGH THE RESTRAINING LENGTH.

DUCTILE IRON PIPE

Diameter	HORIZONTAL, L (FEET) 11 ¼°	22 ½°	45°	90°	Tee or Cross	Valves and Dead End	45° VERTICAL OFFSET (FEET) UPPER	LOWER
4	1	2	4	10	7	20	9	4
6	2	3	6	14	15	28	12	5
8	2	4	8	17	23	37	16	7
10	2	5	9	21	30	44	19	8
12	3	5	10	24	38	52	22	9

PVC PIPE

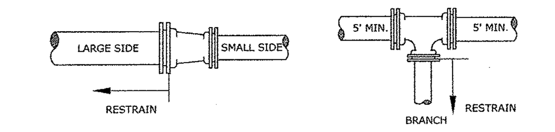
Diameter	HORIZONTAL, L (FEET) 11 ¼°	22 ½°	45°	90°	Tee or Cross	Valves and Dead End	45° VERTICAL OFFSET (FEET) UPPER	LOWER
4	2	3	5	12	11	32	14	5
6	2	4	7	16	23	45	19	6
8	3	5	9	21	37	59	25	8
10	3	5	11	25	48	71	30	9
12	3	6	12	29	61	83	35	11

THE NOTED REQUIREMENTS WERE CALCULATED IN ACCORDANCE WITH THRUST RESTRAINT CALCULATOR V7.2 BY EBAA IRON WITH THE FOLLOWING ASSUMPTIONS:
SOIL CONDITIONS: SW OR GW; NOMINAL SIZE EQUALS BRANCH SIZE; LENGTH ALONG RUN EQUALS 4 FEET
LAYING CONDITION: 4, SAND BEDDING, BACKFILL COMPACTED > 80%; VERTICAL LOW SIDE DEPTH EQUALS 3.5 FEET
MINIMUM COVER: 3.0 FT SAFETY FACTOR: 1.5 BARE PIPE (NO POLY WRAP)
IF FIELD CONDITIONS DIFFER FROM THE ABOVE, CONTRACTOR SHALL NOTIFY WWS.
FOR PIPE LARGER THAN INCLUDED IN THE ABOVE TABLES, ENGINEER OF RECORD SHALL SUBMIT CALCULATIONS FOR EACH JOINT REQUIRING RESTRAINT.

SINGLE FITTING RESTRAINED JOINT
150 PSI TEST PRESSURE

REVISED 7/7/2021 | RESTRAINED JOINT REQUIREMENTS SINGLE FITTING | FIGURE 109

BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL



STRAIGHT REDUCER (SMALL SIDE)

DUCTILE IRON PIPE

DIAMETER	6"	8"	10"	12"
4"	15'	27'	36'	45'
6"		16'	27'	38'
8"			15'	28'
10"				16'

PVC PIPE

	6"	8"	10"	12"
4"	24'	43'	58'	72'
6"		25'	44'	61'
8"			24'	44'
10"				25'

TEE REDUCER (BRANCH SIZE)

DUCTILE IRON PIPE

DIAMETER	6"	8"	10"	12"
4"	1'	1'	1'	1'
6"		6'	1'	1'
8"			15'	10'
10"				23'

PVC PIPE

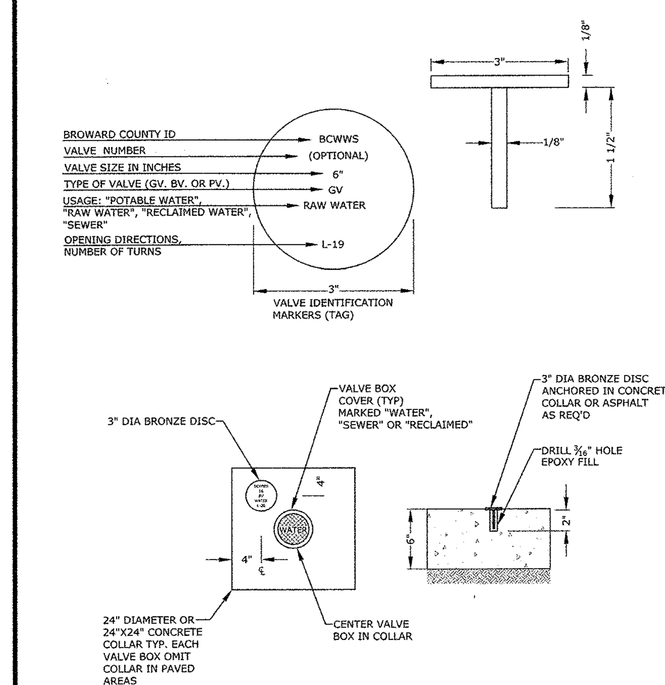
	6"	8"	10"	12"
4"	1'	1'	1'	1'
6"		16'	8'	1'
8"			31'	25'
10"				44'

THE NOTED REQUIREMENTS WERE CALCULATED IN ACCORDANCE WITH THRUST RESTRAINT CALCULATOR V7.2 BY EBAA IRON WITH THE FOLLOWING ASSUMPTIONS:
SOIL CONDITIONS: SW OR GW; LENGTH ALONG RUN EQUALS 4 FEET
LAYING CONDITION: 4, SAND BEDDING, BACKFILL COMPACTED > 80%
MINIMUM COVER: 3.0 FT;SAFETY FACTOR: 1.5;BARE PIPE (NO POLY WRAP)
IF FIELD CONDITIONS DIFFER FROM THE ABOVE, CONTRACTOR SHALL NOTIFY WWS.
FOR PIPE LARGER THAN INCLUDED IN THE ABOVE TABLES, ENGINEER OF RECORD SHALL SUBMIT CALCULATIONS FOR EACH JOINT REQUIRING RESTRAINT.

RESTRAINED REDUCING FITTING
150 PSI TEST PRESSURE

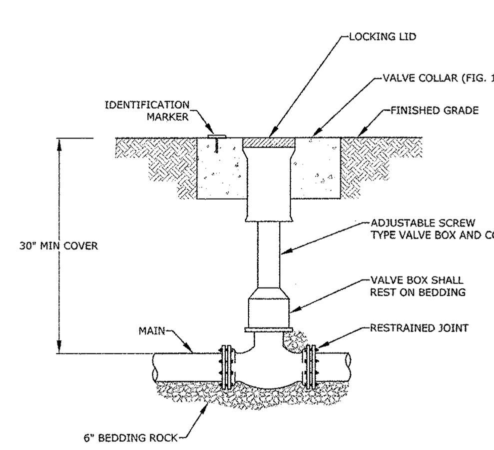
REVISED 7/7/2021 | RESTRAINED JOINT REQUIREMENTS REDUCING FITTINGS | FIGURE 112

BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL



REVISED 7/7/2021 | VALVE COLLAR AND IDENTIFICATION MARKER | FIGURE 121

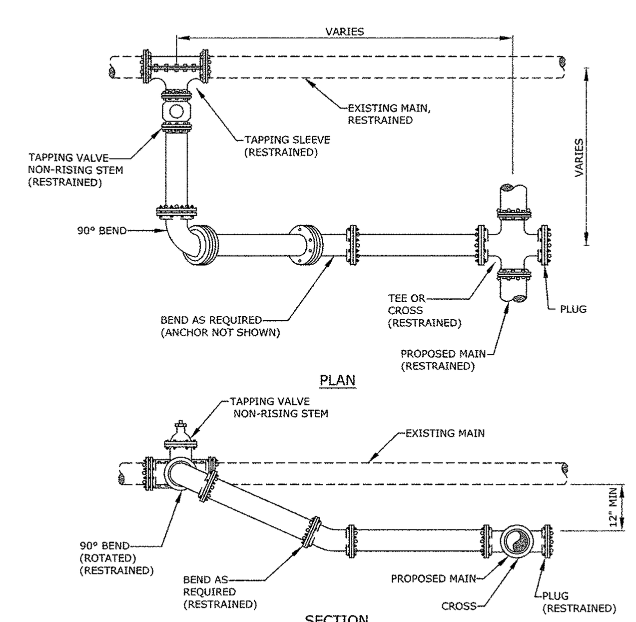
BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL



1. WHEN VALVE IS NOT LOCATED IN PAVEMENT, PLACE A WHITE REFLECTIVE RAISED PAVEMENT MARKER IN THE DRIVE LANE, ADJACENT TO THE VALVE.
2. OPERATOR EXTENSION SHAFT SHALL BE PROVIDED WHEN OPERATING NUT IS MORE THAN 24" BELOW TOP OF VALVE BOX.
3. PVC PIPE OR DUCTILE IRON PIPE IS NOT ACCEPTABLE FOR VALVE BOX RISER.

REVISED 7/7/2021 | VALVE BOX DETAIL | FIGURE 123

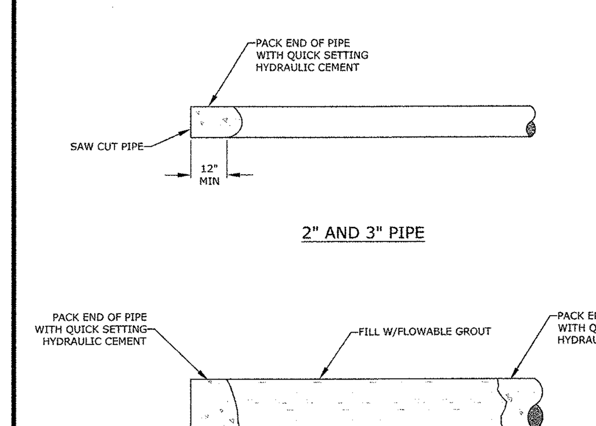
BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL



NOTES:
1. ALL JOINTS TO BE RESTRAINED BY APPROVED METHODS.
2. IF CONNECTION IS PRIOR TO FDEP CLEARANCE THEN A SECOND VALVE WITH VENT IS REQUIRED.

REVISED 7/7/2021 | TYPICAL CONNECTION TO EXISTING MAIN | FIGURE 131

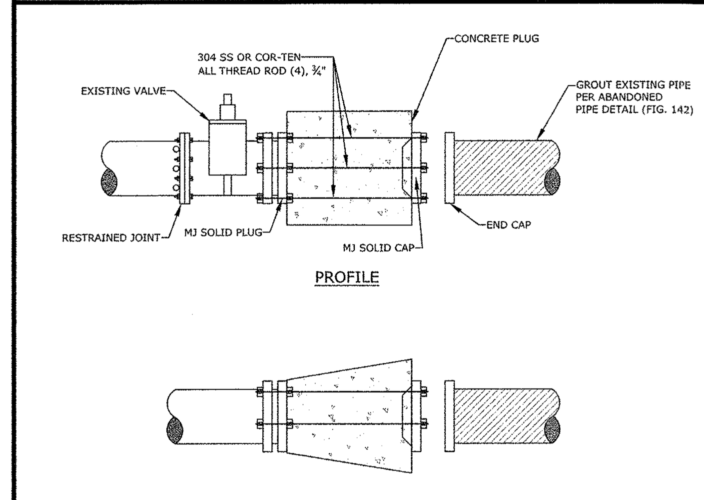
BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL



NOTES:
1. GROUT IN PLACE WITH QUICK SETTING HYDRAULIC CEMENT.
2. PUMP FLOWABLE GROUT FROM ONE END, OR INTERMEDIATE POINTS ALONG THE PIPELINE, UNTIL PIPE IS FILLED AS WITNESSED BY THE DISCHARGE.
3. 600 FEET MAX LENGTH FOR EACH ABANDONMENT.

REVISED 7/7/2021 | PIPE TO BE ABANDONED | FIGURE 142

BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL

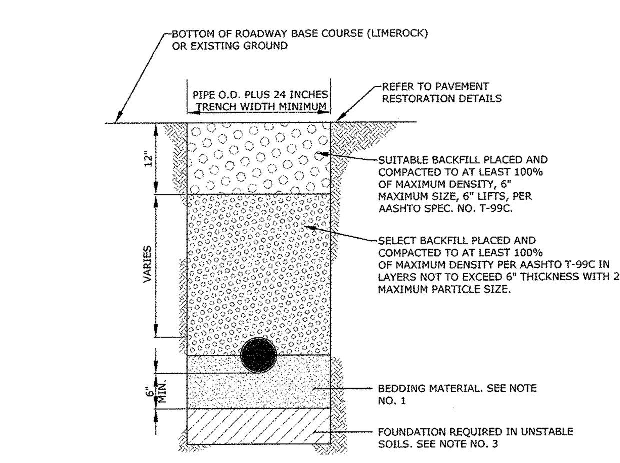


AT EXISTING VALVE OR FITTING

SEQUENCE OF CONSTRUCTION
1. RESTRAIN VALVE OR FITTING. CONTRACTOR TO PROVIDE TEMPORARY RESTRAINT AS REQUIRED. (REQUIRES LINE SHUT DOWN)
2. REMOVE EXISTING PIPE FOR NEW CONCRETE PLUG.
3. INSTALL PLUG INTO BELL OF VALVE OR FITTING AND CAP ON END OF EXISTING PIPE TO BE ABANDONED.
4. INSTALL ALL THREAD RODS (3/4" DIA., MIN) AND POUR CONCRETE PLUG.

REVISED 7/7/2021 | PIPE TO BE ABANDONED (LIVE LINE 4" AND LARGER) | FIGURE 143

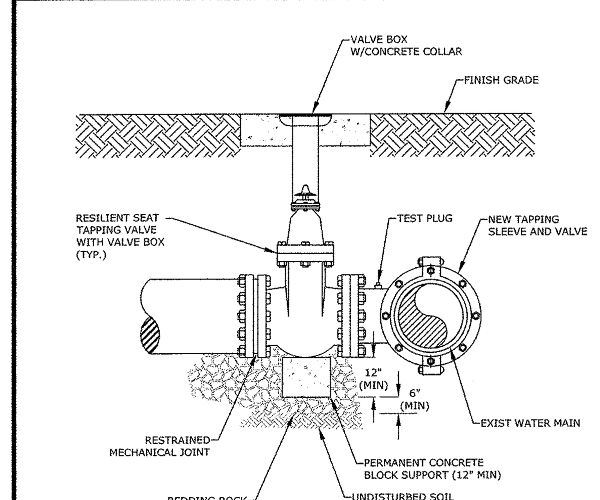
BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL



NOTES:
1. UNLESS OTHERWISE SPECIFIED, BEDDING MATERIAL SHALL CONSIST OF SELECT BACKFILL MATERIAL 2" MAXIMUM PARTICLE SIZE, COMPACTED TO AT LEAST 100% OF MAX. DENSITY, 6" LIFTS, PER AASHTO SPEC. NO. T-99C.
2. WHERE REQUIRED, SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.
3. WHERE UNSTABLE SOILS ARE ENCOUNTERED, INCLUDING PEAT, MUCK OR OTHER ORGANIC SOILS, ELASTIC SILT AND CLAYS, A FOUNDATION IS REQUIRED AS DETERMINED BY THE ENGINEER OF RECORD.

REVISED 7/7/2021 | TYPICAL TRENCH BACKFILL | FIGURE 180

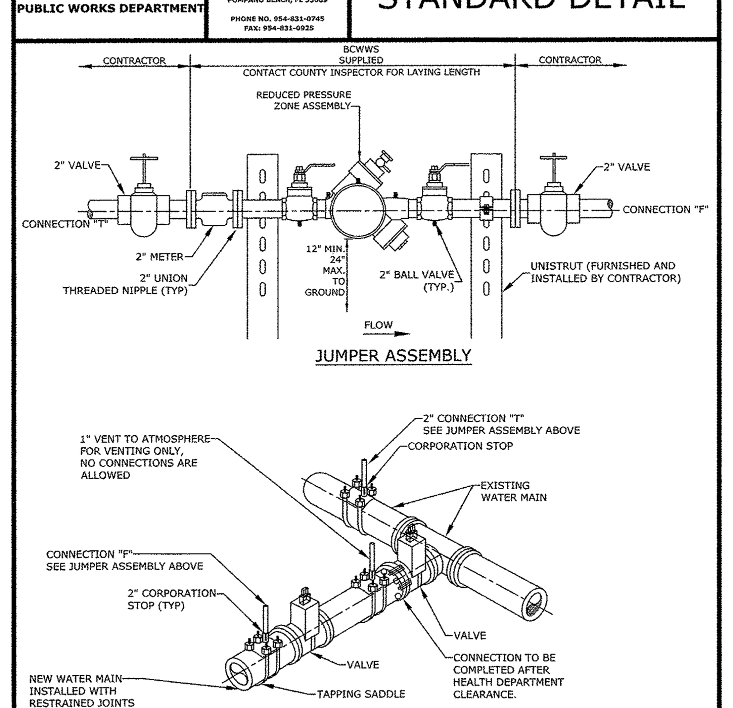
BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL



NOTES:
1. REFER TO WWS MINIMUM DESIGN AND CONSTRUCTION STANDARDS FOR MINIMUM REQUIREMENTS AND PRE-APPROVED MANUFACTURERS.
2. MAIN SHALL BE CLEANED BEFORE ATTACHING SLEEVE
3. SLEEVE AND VALVE SHALL BE PRESSURE TESTED BEFORE MAKING TAP. PRESSURE TEST AND TAP SHALL BE MADE IN PRESENCE OF AN AUTHORIZED COUNTY REPRESENTATIVE.
4. TAP SHALL BE MADE NO CLOSER THAN 18" FROM THE NEAREST JOINT.
5. CONCRETE BLOCK SHALL COMPLETELY SUPPORT TAPPING VALVE.
6. RESTRAINT JOINT REQUIREMENTS SHALL BE IN ACCORDANCE WITH WWS MINIMUM DESIGN AND CONSTRUCTION STANDARDS.

REVISED 7/7/2021 | TAPPING SLEEVE AND VALVE INSTALLATION | FIGURE 196

BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL



NOTES:
1. A BCWWS SUPPLIED FIRE HYDRANT BACKFLOW METER WITH RPZ MAY BE USED IN LIEU OF THE JUMPER ASSEMBLY.
2. SEE DETAIL 205B FOR ADDITIONAL REQUIREMENTS.

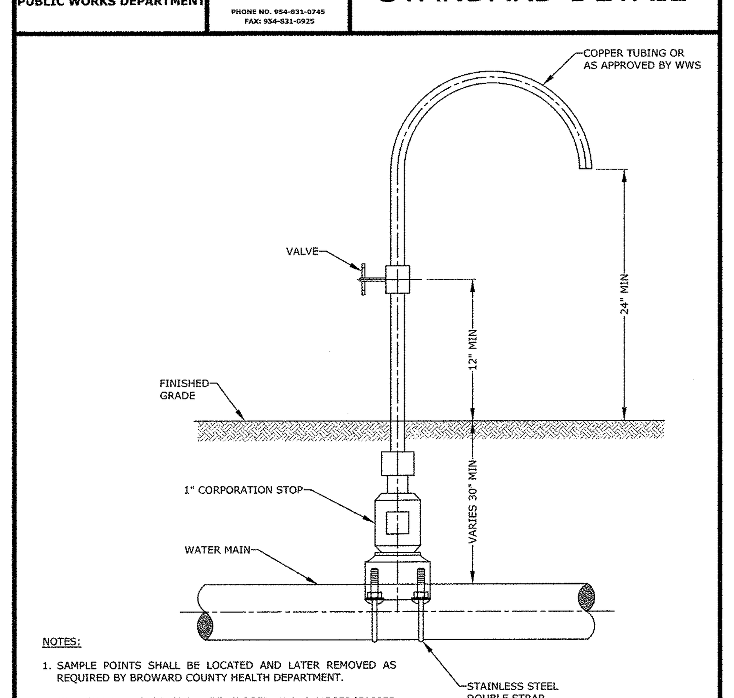
REVISED 7/7/2021 | FILLING AND FLUSHING JUMPER CONNECTION | FIGURE 205A

BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL

1. A FILLING AND FLUSHING JUMPER ASSEMBLY CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE BCWWS WATER MAINS AND NEW WATER MAINS. THE PROCEDURES ARE APPLICABLE WHEN CONNECTING TO AN EXISTING BCWWS WATER MAIN, WHETHER BY TAPPING TEE AND VALVE OR BY CONTINUATION OF A PLUGGED STUB OUT WITH AN EXISTING GATE VALVE.
2. THE CONTRACTOR SHALL CONTACT BCWWS REGARDING SCHEDULING OF REQUIRED INSPECTIONS RELATING TO THE CONNECTION. BCWWS INSPECTIONS ARE SPECIFICALLY REQUIRED FOR TIE-INS OR WET TAPS TO EXISTING WATER MAINS, JUMPER ASSEMBLY CONNECTION INSTALLATION, FLUSHING, PRESSURE TESTING, DISINFECTION, SAMPLING, PLUGGING OF SAMPLING POINTS AND PERMANENT CONNECTION OF THE NEW WATER MAIN. THE CONTRACTOR SHALL FOLLOW ALL PROCEDURES STRICTLY IN ACCORDANCE WITH BCWWS STANDARDS.
3. THE JUMPER ASSEMBLY (2" DIAMETER FLANGE TO FLANGE) WILL BE SUPPLIED BY BCWWS AND INSTALLED AND TESTED BY THE CONTRACTOR, IN COORDINATION WITH THE ENGINEER OF RECORD (EOR) AND BCWWS. OTHER MATERIALS AND INSTALLATION REQUIRED FOR THE CONNECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE UNDERGROUND FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT TYPE. ALL MATERIALS SHALL BE PER THE BCWWS APPROVED PRODUCT SPECIFICATION SHEETS. THE JUMPER SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL IT IS REMOVED. JUMPER ASSEMBLIES 3" AND LARGER SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR IN COORDINATION WITH BCWWS.
4. ALL NEW WATER MAINS SHALL BE FLUSHED, PRESSURE TESTED AND DISINFECTED. NEW MAINS SHALL NOT BE PLACED INTO SERVICE UNTIL THE BACTERIOLOGICAL TEST RESULTS ARE SATISFACTORY AND A WRITTEN APPROVAL HAS BEEN OBTAINED FROM BCWWS, AS WELL AS CERTIFICATION FROM THE FLORIDA DEPARTMENT OF HEALTH.
5. THE WATER MAINS SHALL BE PRESSURE TESTED AFTER FLUSHING AND PRIOR TO DISINFECTION. ALL VALVES SHALL REMAIN CLOSED DURING THE PRESSURE TEST AND WILL NOT BE OPENED UNTIL THE RESULTS OF PRESSURE TESTING AND BACTERIOLOGICAL TESTING ARE SATISFACTORY AND THE SYSTEM HAS BEEN ACCEPTED FOR OPERATION BY BCWWS, AND HAS RECEIVED CERTIFICATION FROM THE FLORIDA DEPARTMENT OF HEALTH.
6. DISINFECTION SHALL BE CONDUCTED IN ACCORDANCE WITH AWWA C651. A MINIMUM PRESSURE OF 25 PSI SHALL BE MAINTAINED IN THE NEW MAIN AFTER DISINFECTION AT ALL TIMES.
7. PERMANENT CONNECTION TO EXISTING MAINS BY OPENING OF MAIN VALVES SHALL NOT BE MADE PRIOR TO BACTERIOLOGICAL CLEARANCE AND UNTIL APPROVED BY BCWWS AND CERTIFIED BY THE FLORIDA DEPARTMENT OF HEALTH.
8. UPON BACTERIOLOGICAL CLEARANCE, THE SAMPLING POINTS SHALL BE REMOVED AND PLUGGED BY THE CONTRACTOR. THE CONTRACTOR SHALL MAKE THE PERMANENT CONNECTION IN THE PRESENCE OF A BCWWS INSPECTOR. THE PIPE AND FITTINGS FOR CONNECTION SHALL BE DISINFECTED BY SPRAYING AND SWABBING WITH CHLORINE. THE JUMPER ASSEMBLY (FLANGE TO FLANGE) WILL BE REMOVED BY THE CONTRACTOR IN COORDINATION WITH BCWWS. THE CONTRACTOR SHALL REMOVE THE REMAINDER OF THE JUMPER CONNECTION PIPING AND PLUG THE CORPORATION STOP VALVES.

REVISED 7/7/2021 | FILLING AND FLUSHING JUMPER CONNECTION | FIGURE 205B

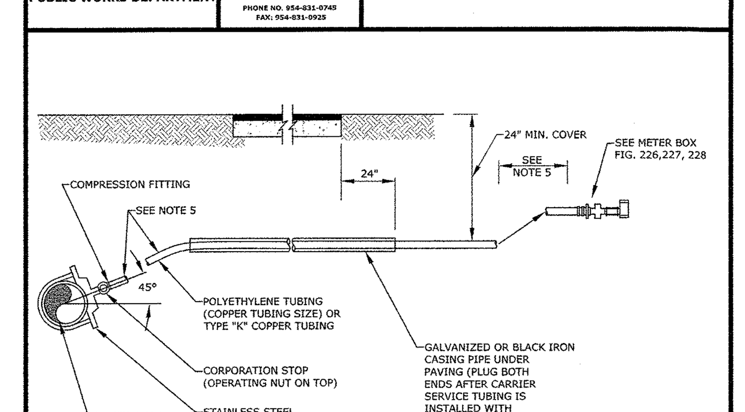
BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL



NOTES:
1. SAMPLE POINTS SHALL BE LOCATED AND LATER REMOVED AS REQUIRED BY BROWARD COUNTY HEALTH DEPARTMENT.
2. CORPORATION STOP SHALL BE CLOSED AND PLUGGED/CAPPED WITH A BRASS FITTING AFTER HEALTH DEPARTMENT CLEARANCE.
3. SAMPLING POINTS MAY BE PLACED AT THE ENDS OF WATER SERVICES BEFORE THE METERS AND ON BLOW OFFS FOR TERMINAL WATER MAINS, WHERE SERVICES AND BLOW OFFS ARE REQUIRED BY THE PLANS.

REVISED 7/7/2021 | SAMPLING POINT | FIGURE 206

BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL

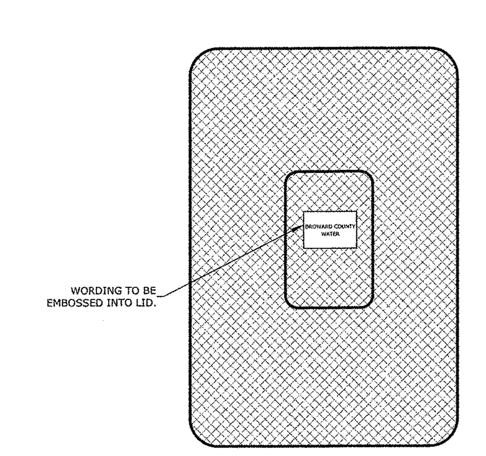


NOTES:
1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 18" ON CENTER. NO TAPS SHALL BE CLOSER THAN 18" TO A JOINT.
2. 1" SERVICE REQUIRE A 2" MINIMUM INSIDE DIAMETER CASING PIPE.
3. 2" SERVICE REQUIRE A 3" MINIMUM INSIDE DIAMETER CASING PIPE.
4. ALL CASING PIPE SHALL EXTEND A MINIMUM OF 2' BEYOND THE EDGE OF PAVED STREETS.
5. FOR 1" SERVICE LINES THE MINIMUM RADIUS SHALL BE 14". FOR 2" SERVICE LINES THE MINIMUM RADIUS SHALL BE 21".
6. ALL CASING PIPE ENDS SHALL BE FILED SMOOTH WITH NO BURRS AND SEALED WITH URETHANE FOAM.
7. THE POLYETHYLENE OR COPPER TUBING SHALL BE ONE CONTINUOUS PIECE FROM THE CORPORATION STOP TO THE CHECK VALVE. NO JOINTS WILL BE PERMITTED BETWEEN THESE POINTS.

THIS DETAIL APPLIES ONLY TO RESIDENTIAL ROADS WITH LESS THAN 70' R.O.W. (NO MEDIAN) OR WITHIN EASEMENTS

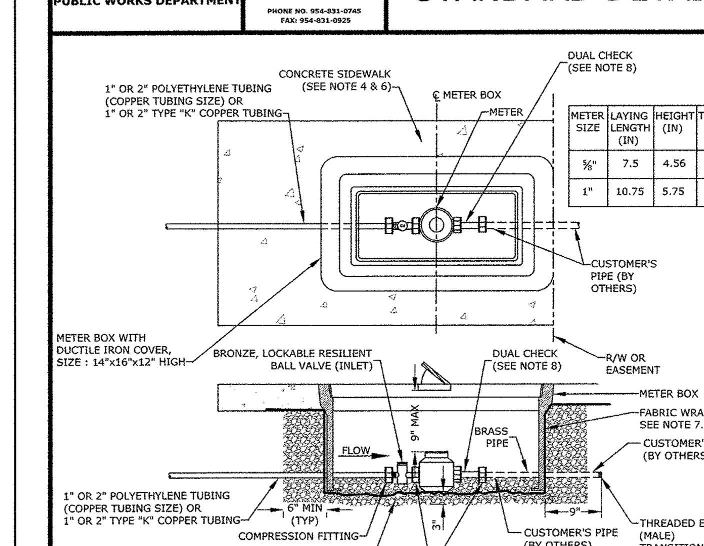
REVISED 7/7/2021 | TYPE 1 WATER SERVICE CONNECTION | FIGURE 221

BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL



REVISED 7/7/2021 | POTABLE WATER METER BOX COVER | FIGURE 225

BROWARD COUNTY PUBLIC WORKS DEPARTMENT | STANDARD DETAIL



METER SIZE	LAYING LENGTH (IN)	HEIGHT (IN)	TUBING SIZE (IN)
⅝"	7.5	4.56	1"
1"	10.75	5.75	2"

NOTES:
1. ALL STRUCTURES TO BE TRAFFIC BEARING TYPE.
2. CURVE IN SERVICE LINE SHALL BE AS CLOSE TO METER BOX AS PRACTICAL, WITH A MINIMUM RADIUS OF 14" FOR 1" TUBING AND 21" FOR 2" TUBING. ⅝" METERS SHALL HAVE A 1" SERVICE LINE, AND 1" METERS SHALL HAVE A 2" SERVICE LINE.
3. ALL METERS WILL BE SUPPLIED AND INSTALLED BY WWS. METER HAS IRON PIPE THREAD MALE CONNECTION ON EACH END.
4. WHEN SIDEWALKS ARE PRESENT, OR PLANNED FOR IN THE R/W, THE BACK EDGE OF THE METER BOX SHALL LINE UP WITH THE BACK EDGE OF THE SIDEWALK.
5. METER SHALL BE CENTERED IN BOX DIRECTLY UNDER THE ACCESS LID. BALL VALVE AND BOTH METER COUPLINGS SHALL BE VISIBLE IN THE METER BOX.
6. WHEN THERE ARE NO SIDEWALKS, CONSTRUCT 6" WIDE x 6" THICK CONCRETE COLLAR AT GRADE.
7. AT BOTH PIPE PENETRATIONS THROUGH THE FABRIC WRAP, THE FABRIC SHALL BE PULLED TIGHT AROUND THE PIPE AND SECURED WITH TWO GRADE 316 STAINLESS STEEL HOSE CLAMPS TO PROVIDE A TIGHT SEAL AROUND PIPE.
8. DUAL CHECK ON SINGLE FAMILY HOUSE METERS ONLY. ALL OTHER METERS TO HAVE DOWNSTREAM ABOVE-GROUND BACK FLOW PREVENTER.

REVISED 7/7/2021 | WATER METER INSTALLATION FOR ⅝" AND 1" METERS | FIGURE 226

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URBAN DESIGN
666 N.E. 125th STREET, SUITE 247
NORTH MIAMI, FL 33161
Phone: 305.720.2079
C.O.A. 33221

CHRISTOPHER PATRICK COLLINS LICENSE No. 73819 STATE OF FLORIDA PROFESSIONAL ENGINEER
CHRISTOPHER COLLINS, P.E. REG-# 73819
09/05/2023

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Revision	Date	Comment
6		
5		
4		
3		
2	09/26/2022	WWS DESIGN REVIEW 09.19.2022
1	09/06/2022	WWS DESIGN REVIEW 08.22.2022

Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	N.T.S.
Date:	08/22/2022
Job No.:	I002

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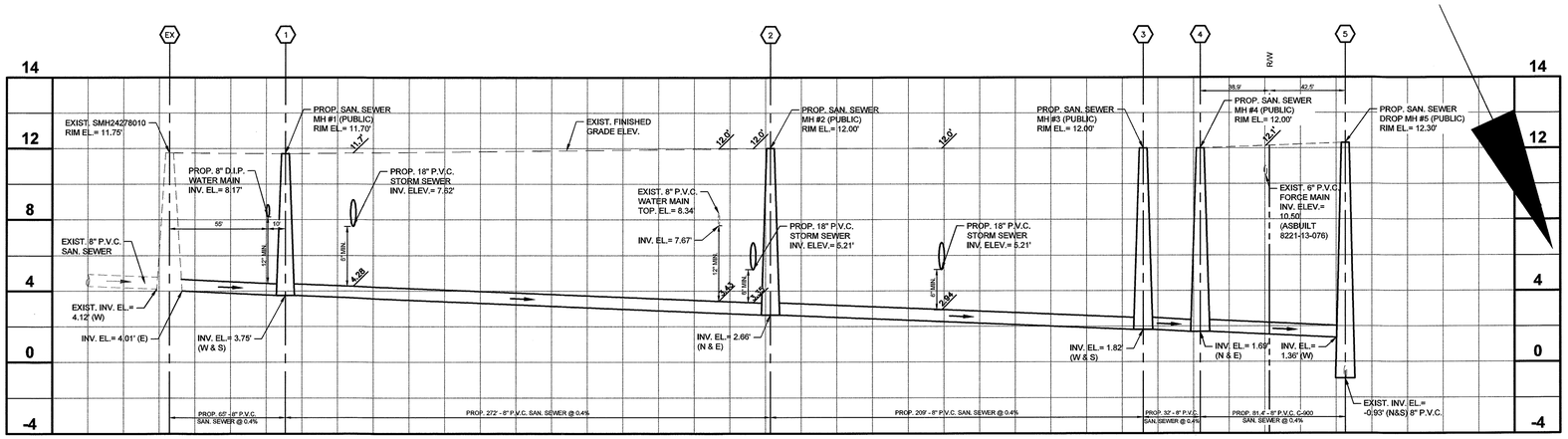
Plans for

FESTIVAL MARKETPLACE
2900 W SAMPLE ROAD
POMPANO BEACH, FLORIDA

UTILITY DETAILS

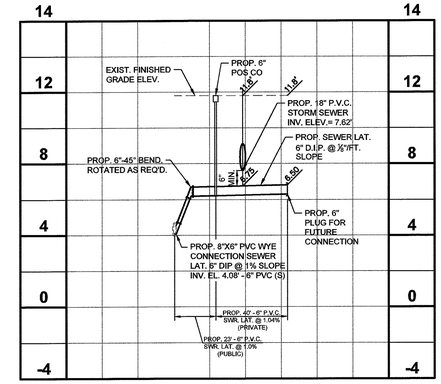
Sheet No.
C-10.3

DRC
PZ22-12000027
10/01/2025



PROP. 8" SAN. SEWER PROFILE
(REFER TO SHEET C-10.1)

HORIZONTAL: 1" = 40'
VERTICAL: 1" = 4'



PROP. 6" SEWER LAT. PROFILE
(REFER TO SHEET C-10.1)

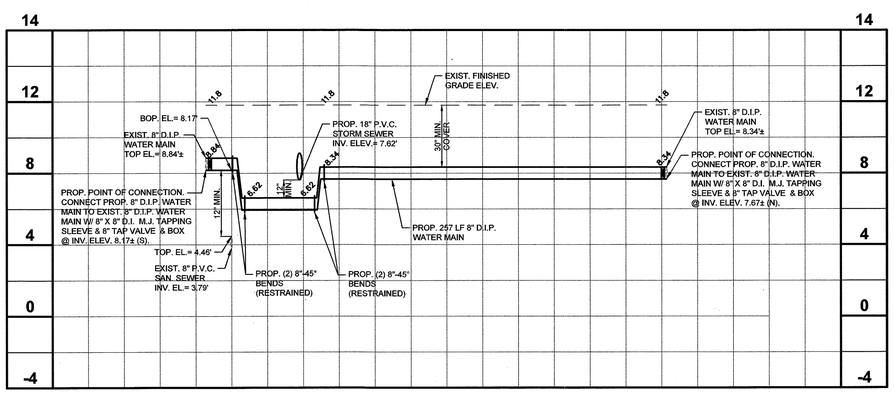
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 4'

NOTE

ELEVATIONS AS SHOWN WERE CONVERTED FROM THE NATIONAL GEOGETIC VERTICAL DATUM OF 1929 (NGVD 29) TO THE NORTH AMERICAN VERTICAL DATUM (NAVD 88) USING THE FOLLOWING CONVERSION: NGVD 29 VERTICAL DATUM (IN FEET) - 1.56' = NAVD 88 VERTICAL DATUM. THE CONVERSION FACTOR WAS OBTAINED FROM THE NATIONAL GEODETIC SURVEY WEBSITE ORTHOMETRIC HEIGHT CONVERSION PROGRAM USING THE LATITUDE AND LONGITUDE OF THE PROJECT LOCATION TO DETERMINE A CONVERSION FACTOR FOR THIS SPECIFIC LOCATION.

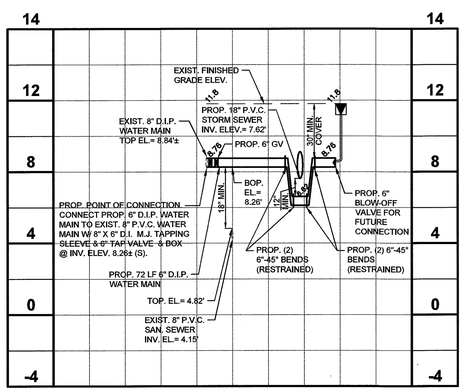
NOTE

THE MINIMUM COVER DEPTHS REQUIRED FOR PVC AND DIP SEWER MAINS ARE RESPECTIVELY 36 AND 30 INCHES.



PROP. 8" WATER MAIN PROFILE
(REFER TO SHEET C-10.1)

HORIZONTAL: 1" = 40'
VERTICAL: 1" = 4'



PROP. 6" WATER MAIN PROFILE
(REFER TO SHEET C-10.1)

HORIZONTAL: 1" = 40'
VERTICAL: 1" = 4'

DRC DESIGN
666 N.E. 125th STREET, SUITE 247
NORTH MIAMI, FL 33161
Phone: 305.720.2079
C.O.A. 33221

CHRISTOPHER PATRICK COLLINS LICENSE No. 73819 STATE OF Florida PROFESSIONAL ENGINEER
CHRISTOPHER P. COLLINS, P.E. REG.# 73819
09/05/2023

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Revision 6	Date
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Revision 5	Date
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Revision 4	Date
Comment	
Revision 3	Date
Comment	
Revision 2	Date 09/26/2022
Comment WWS DESIGN REVIEW 09.19.2022	
Revision 1	Date 09/06/2022
Comment WWS DESIGN REVIEW 08.22.2022	

Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	AS SHOWN
Date:	08/22/2022
Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE
2900 W SAMPLE ROAD
POMPANO BEACH, FLORIDA

WATER & SEWER PROFILES

Sheet No.
C-10.2

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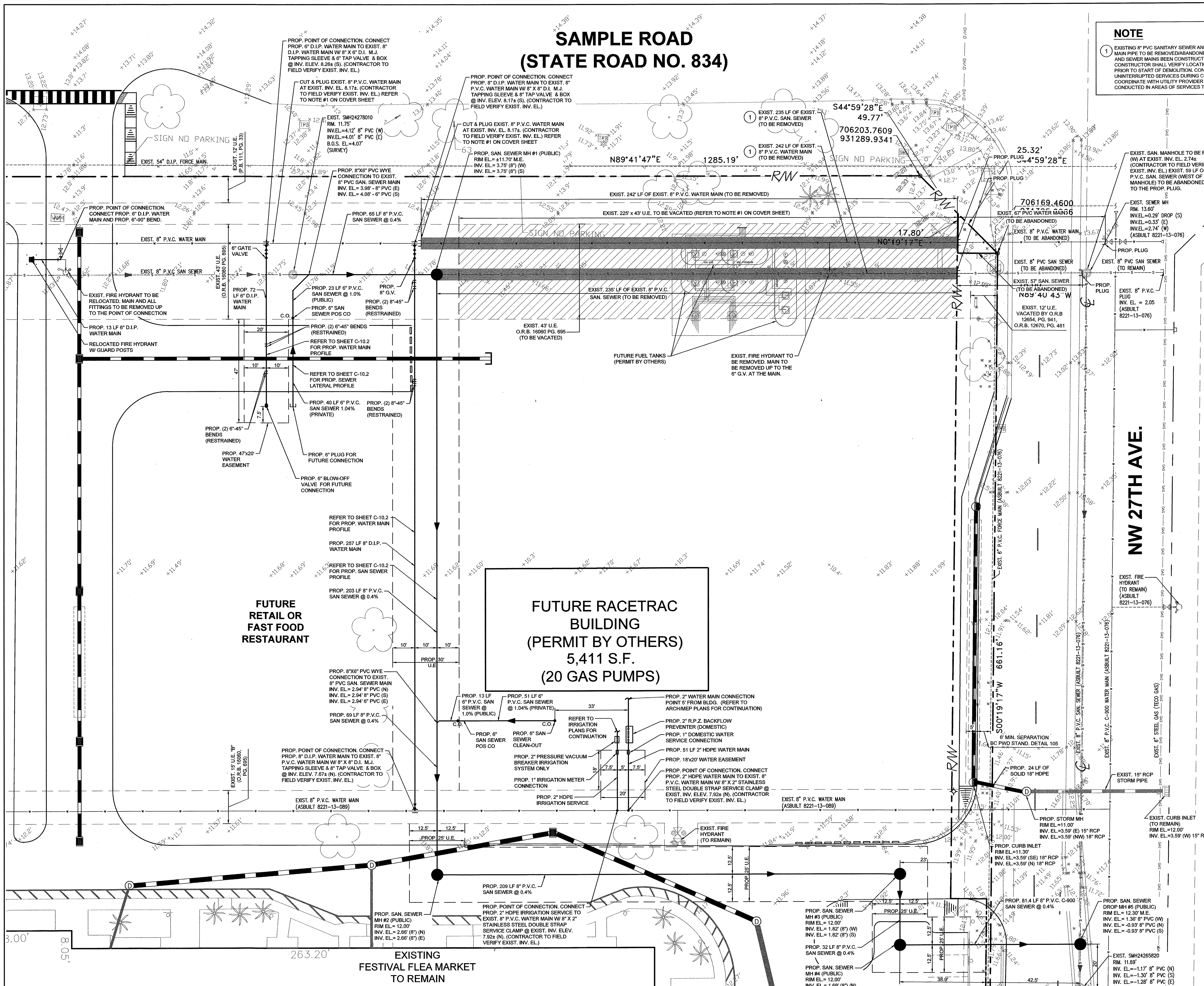
12/03/2025



NOTE

1. EXISTING 8" PVC SANITARY SEWER AND EXISTING 6" PVC WATER MAIN PIPE TO BE REMOVED/ABANDONED AFTER NEW WATER AND SEWER MAINS BEEN CONSTRUCTED AND CERTIFIED. CONSTRUCTOR SHALL VERIFY LOCATION OF EXISTING SERVICES PRIOR TO START OF DEMOLITION. CONTRACTOR SHALL MAINTAIN UNINTERRUPTED SERVICES DURING CONSTRUCTION AND COORDINATE WITH UTILITY PROVIDER WHEN WORK IS CONDUCTED IN AREAS OF SERVICES TO REMAIN.

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

SYMBOLOGY LEGEND

- EXISTING FORCE MAIN
- EXISTING WATER MAIN
- EXISTING SAN SEWER
- EXISTING SAN SEWER MANHOLE
- EXIST. GRADE ELEVATION
- PROP. STORM MANHOLE
- PROP. STORM INLET WITH EXFILTRATION TRENCH
- PROP. STORM SEWER PIPE
- PROP. SANITARY SEWER AND FLOW DIRECTION
- PROP. WATER MAIN
- PROP. BACKFLOW PREVENTER (DOMESTIC)
- PROP. PRESSURE VACUUM BREAKER IRRIGATION SYSTEM ONLY
- PROP. IRRIGATION METER CONNECTION
- PROP. DOMESTIC WATER SERVICE CONNECTION
- PROP. FIRE HYDRANT W/ CV, GV AND GUARD POSTS
- PROP. TAPPING SLEEVE & TAP VALVE & BOX
- PROP. PLUG
- PROP. BLOW-OFF VALVE
- PROP. 90° BEND
- PROP. TEE AND GV
- PROP. SAN. CLEANOUT
- PROP. SANITARY SEWER MANHOLE

HATCH LEGEND

- EXISTING 225' X 43' U.E. (O.R.B. 16060, PG. 695) TO BE VACATED. THE VACATION OF THIS EASEMENT CANNOT TAKE PLACE UNTIL THE PROPOSED WATER AND SEWER MAINS HAVE BEEN RELEASED FOR SERVICE.
- LIMITS OF EXISTING WATER MAIN AND SANITARY SEWER TO BE REMOVED.

NOTES

1. ALL CONSTRUCTION WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY WATER AND WASTEWATER SERVICES (BCWWS) STANDARDS AND SPECIFICATIONS.
2. ALL EXISTING MAINS BEING IMPACTED BY THIS PROJECT AND ALL PROPOSED WATER AND SEWER FORCE MAINS AND FITTINGS, TO BE RESTRAINED PER GS 2.0
3. 2.5 DEGREE MAXIMUM DEFLECTION, TYPICAL
4. CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATION OF EXISTING WATER, FORCE MAIN AND ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF WORK.
5. ALL REMOVED FIRE HYDRANTS MUST BE RETURNED TO BCWWS.

NOTE

ELEVATIONS AS SHOWN WERE CONVERTED FROM THE NATIONAL GEOGETIC VERTICAL DATUM OF 1929 (NGVD 29) TO THE NORTH AMERICAN VERTICAL DATUM (NAVD 88) USING THE FOLLOWING CONVERSION: NGVD 29 VERTICAL DATUM (IN FEET) - 1.56' = NAVD 88 VERTICAL DATUM. THE CONVERSION FACTOR WAS OBTAINED FROM THE NATIONAL GEODETIC SURVEY WEBSITE ORTHOMETRIC HEIGHT CONVERSION PROGRAM USING THE LATITUDE AND LONGITUDE OF THE PROJECT LOCATION TO DETERMINE A CONVERSION FACTOR FOR THIS SPECIFIC LOCATION.

NOTE

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12/03/2025

DESIGN

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NORTH MIAMI, FL 33161
Phone: 305.720.2079
C.O.A. 33221

CHRISTOPHER PATRICK COLLINS LICENSE No. 73819 STATE OF FLORIDA PROFESSIONAL ENGINEER
CHRISTOPHER COLLINS, P.E.
REG# 73819
09/05/2023

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Revision 6	Date
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Revision 5	Date
Comment	
Revision 4	Date
Comment	
Revision 3	Date
Comment	
Revision 2	Date 09/26/2022
Comment WWS DESIGN REVIEW 09.19.2022	
Revision 1	Date 09/06/2022
Comment WWS DESIGN REVIEW 08.22.2022	
Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	1" = 20'
Date:	08/22/2022
Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE

2900 W SAMPLE ROAD
POMPANO BEACH, FLORIDA

WATER AND SEWER PLAN

Sheet No.

C-10.1

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10/01/2025

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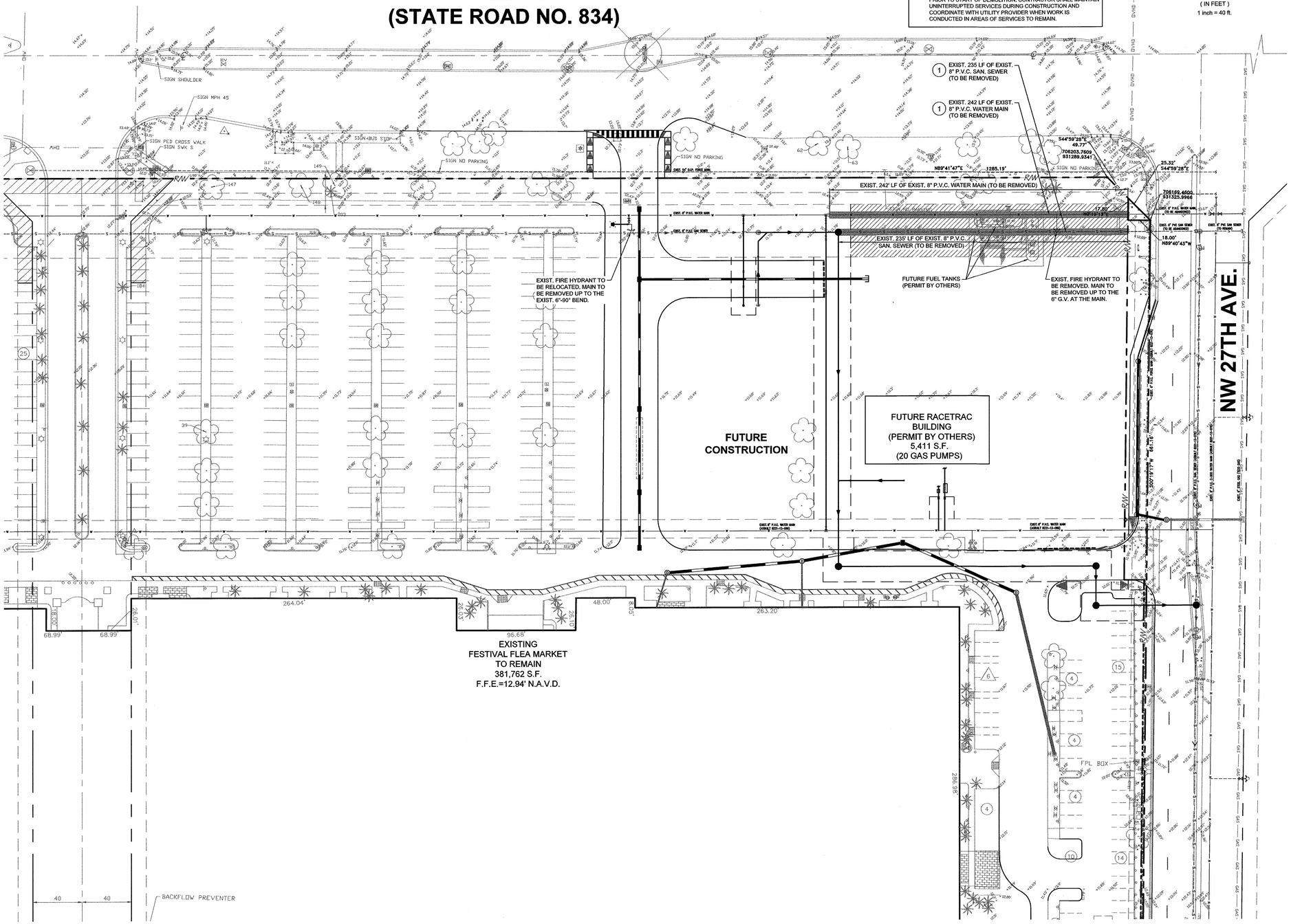
PZ22-12000027
12/03/2025
DESIGN



NOTE

1. EXISTING 6" PVC SANITARY SEWER AND EXISTING 6" PVC WATER MAIN PIPE TO BE REMOVED/ABANDONED AFTER NEW WATER AND SEWER MAINS BEEN CONSTRUCTED AND CERTIFIED. CONSTRUCTOR SHALL VERIFY LOCATION OF EXISTING SERVICES PRIOR TO START OF DEMOLITION. CONTRACTOR SHALL MAINTAIN UNINTERRUPTED SERVICES DURING CONSTRUCTION AND COORDINATE WITH UTILITY PROVIDER WHEN WORK IS CONDUCTED IN AREAS OF SERVICES TO REMAIN.

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

HATCH LEGEND

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LIMITS OF EXISTING WATER MAIN AND SANITARY SEWER TO BE REMOVED.

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CHRISTOPHER COLLINS P.E.
REC# 73819
09/05/2023

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Drawn by:	A.T.S.
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Scale:	1" = 40'
Date:	08/22/2022
Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE

2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

OVERALL WATER AND SEWER PLAN

Sheet No.

C-10.0

DRC
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10/01/2025

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12/03/2025

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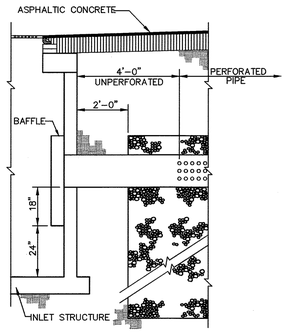
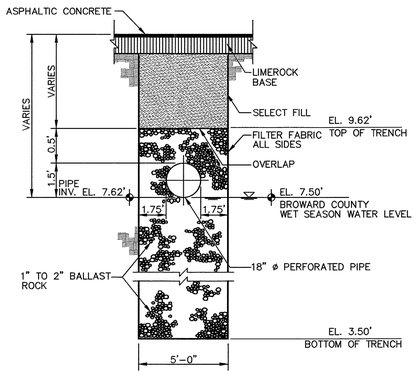


NOTES:

1. PROVIDE BAFFLE WHEREVER PIPE ENTERS FRENCH DRAIN.
2. BAFFLE SHALL BE AS SHOWN ON DETAIL IN THIS SHEET OR APPROVED EQUAL.
3. SUMP 2'-0" (TYP.) EXCEPT AT POLLUTION CONTROL STRUCTURES SUMP TO BE 3'-6".

EXFILTRATION TRENCH CONNECTION DETAIL

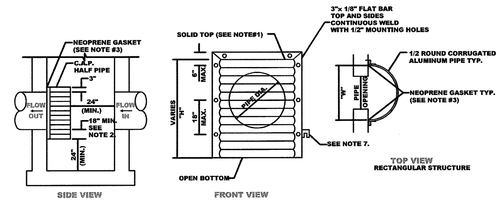
N.T.S.



NOTE: FILTER FABRIC PER FDOT INDEX NO. 199

18" EXFILTRATION TRENCH SECTION

N.T.S.



PIPE DIA.	W[1] (IN)	W[2] (IN)	T (GAUGE)	H (IN)
15"	21"	21"	16	VARIES
18"	24"	24"	16	VARIES
21"	30"	30"	16	VARIES
24"	30"	36"	16	VARIES
30"	36"	42"	14	VARIES
36"	42"	48"	14	VARIES
42"	48"	54"	14	VARIES
48"	54"	60"	14	VARIES
54"	60"	66"	14	VARIES

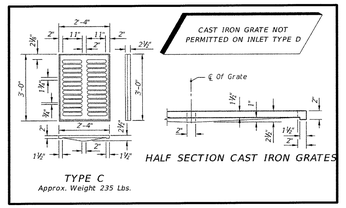
1. RECTANGULAR STRUCTURE
2. ROUND STRUCTURE

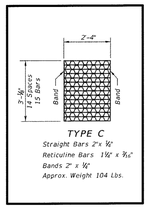
NOTES

1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP.
2. THE BOTTOM ELEVATION OF THE POLLUTION RETARDANT BAFFLE MUST BE AT LEAST 1.5'BELOW CONTROL ELEVATION.
3. NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1"X2") SHALL BE INSTALLED ON THE SIDES AND TOP ALL
4. POLLUTION RETARDANT BAFFLE TO BE FASTENED IN PLACE WITH ⅜"X4" STAINLESS STEEL "RED HEADS", OR APPROVED
5. ALL EXFILTRATION TRENCHES SHALL HAVE A POLLUTION RETARDANT BAFFLE AT EACH CONNECTION POINT TO A
6. SUPPORTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.

POLLUTION RETARDANT BAFFLE DETAIL

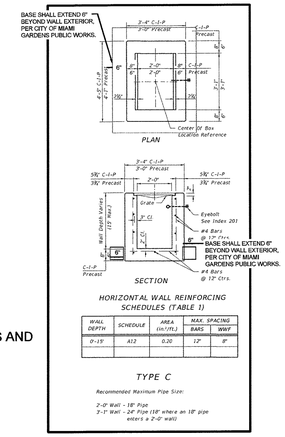
N.T.S.





NOTE:

SEE FDOT INDEX 232 FOR COMPLETE DETAIL, NOTES AND SPECIFICATIONS.



WALL DEPTH	SCHEDULE	AREA (in²/ft.)	MAX. SPACING BARS	MAX. SPACING WWF
0'-15'	A12	0.20	12"	8"

FDOT TYPE C INLET

N.T.S.

ELEVATIONS NOTE:

ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND ARE BASED ON THE BROWARD COUNTY BENCHMARK #260/2752C.

REFER TO BOUNDARY AND TOPOGRAPHIC SURVEY CONDUCTED BY MILLER LEGG.

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SUITE 247
NORTH MIAMI, FL 33161
Phone: 305.720.2079
C.O.A. 33221

CHRISTOPHER PATRICK COLLINS LICENSED PROFESSIONAL ENGINEER No. 73819 STATE OF FLORIDA
CHRISTOPHER COLLINS, P.E.
REG.# 73819
3/11/2024

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Comment	

Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	N.T.S.
Date:	05/25/2022
Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE

2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

GRADING & DRAINAGE DETAILS

Sheet No.

C-9.0

DRC
PZ22-12000027
10/01/2025

PROPOSED DRAINAGE SYMBOLS LEGEND

- (T.C.) / (E.P.) — TOP OF CURB, ELEV. EDGE OF PVMT. ELEV. OR GROUND ELEV.
- X% — PROP. FLOW DIRECTION AND SLOPE
- 137 — EXIST. GRADE ELEVATION
- PROP. STORM SEWER PIPE
- PROP. INLET WITH EXFILTRATION TRENCH
- PROPOSED GRADE BREAK
- PROPOSED LANDSCAPING

ADA NOTE:

CONSULTANT HAS IDENTIFIED AND USED THE CURRENT VERSION OF ALL LOCAL, STATE, AND FEDERAL ACCESSIBILITY GUIDELINES FOR SITE ACCESSIBILITY THE SITE HAS BEEN DESIGNED IN ACCORDANCE WITH, BUT NOT LIMITED TO, CITY, COUNTY, AND STATE ACCESSIBILITY CODES, AND THE 2010 AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN (2010 ADA STANDARDS), AS AMENDED.

ELEVATIONS NOTE:

ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND ARE BASED ON THE BROWARD COUNTY BENCHMARK #260/2752C.

REFER TO BOUNDARY AND TOPOGRAPHIC SURVEY CONDUCTED BY MILLER LEGG.

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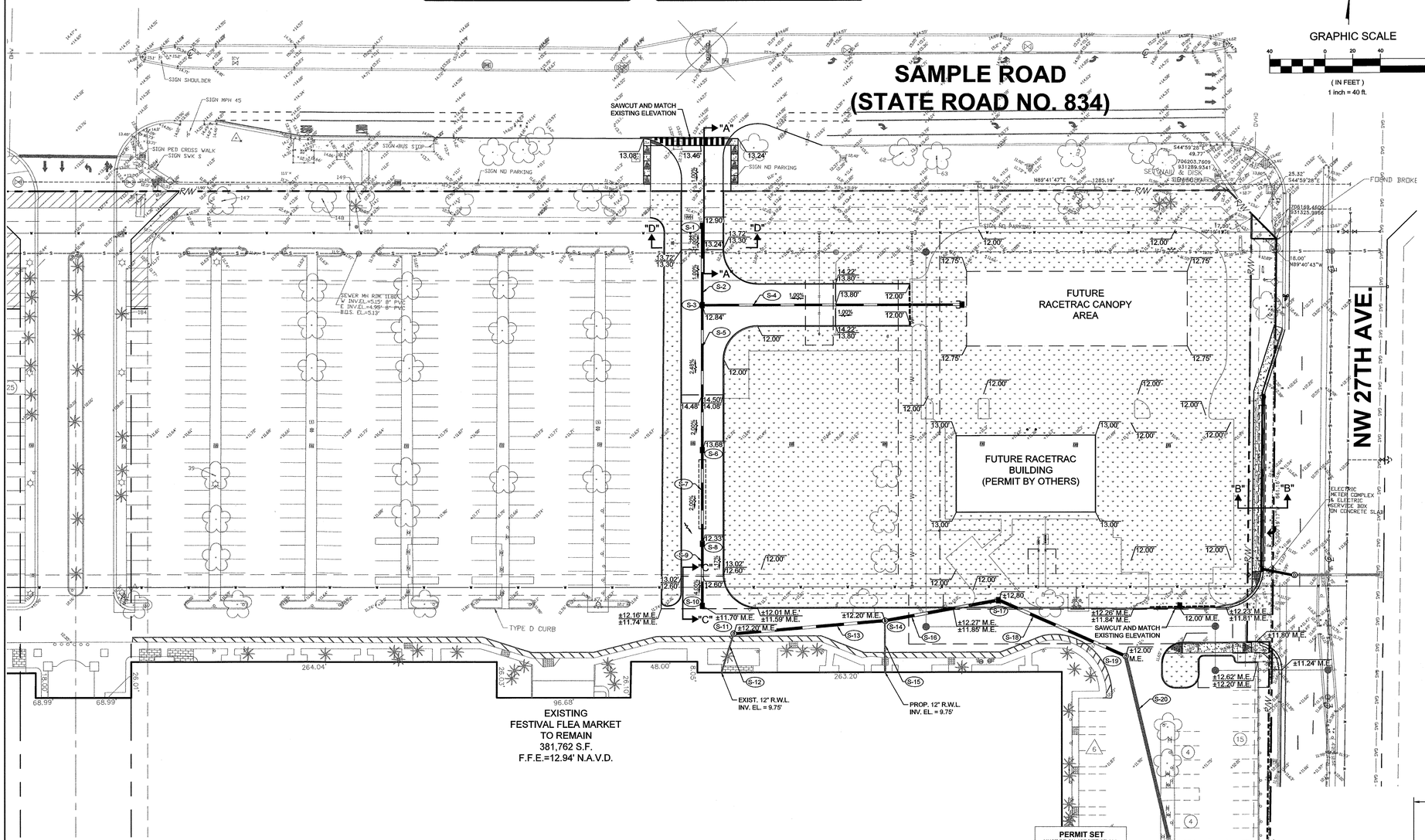
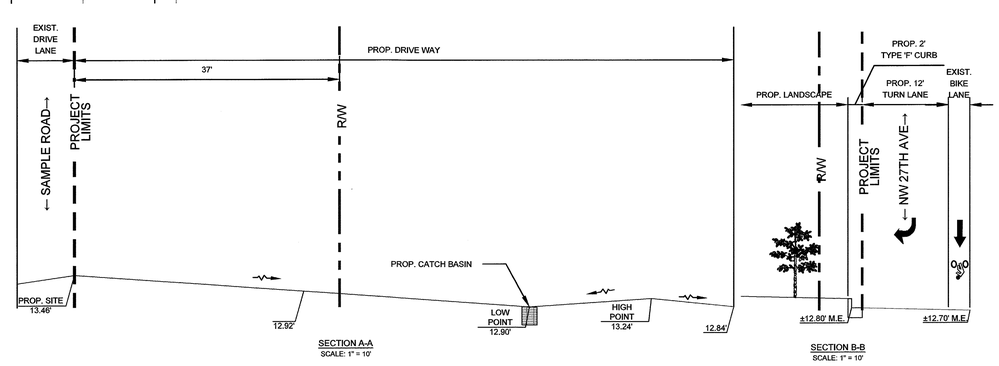


STRUCTURE TABLE

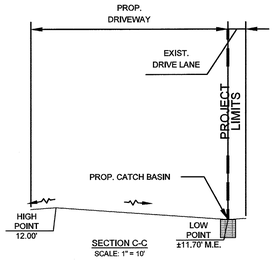
STRUCTURE NUMBER	STRUCTURE TYPE	RIM ELEVATION	INVERT ELEVATION
S-1	PROP. 48" CATCH BASIN AND TYPE "C" FRAME, AND GRATE PER FDOT STND PLANS 425-052	12.90	(18") 7.62 (S)
S-2	PROP. 53 LF OF SOLID 18" HDPE		
S-3	PROP. 48" CATCH BASIN AND TYPE "C" FRAME, AND GRATE PER FDOT STND PLANS 425-052	12.84	(18") 7.62 (N) (18") 7.62 (S) (18") 7.62 (E)
S-4	PROP. 185 LF OF SOLID 18" HDPE		
S-5	PROP. 102 LF OF SOLID 18" HDPE		
S-6	PROP. 48" CATCH BASIN AND TYPE "C" FRAME, AND GRATE PER FDOT STND PLANS 425-052	13.68	(18") 7.62 (N) (18") 7.62 (S) ** (18") 7.62 (W)
S-7	PROP. 50 LF OF 8" HDPE PERFORATED PIPE W/ EXFIL. TRENCH AND 15 LF OF SOLID 18" HDPE		
S-8	PROP. 48" CATCH BASIN AND TYPE "C" FRAME, AND GRATE PER FDOT STND PLANS 425-052	12.33	(18") 7.62 (N) ** (18") 7.62 (W) ** (18") 7.62 (S)
S-9	PROP. 41 LF OF SOLID 18" HDPE		
S-10	PROP. 48" CATCH BASIN AND TYPE "C" FRAME, AND GRATE PER FDOT STND PLANS 425-052	11.70 M.E.	(18") 7.62 (N)
S-11	PROP. 48" DRAINAGE MANHOLE PER FDOT STND PLANS	12.20 M.E.	(12") 9.43 (S) * (24") 6.64 (E) (24") 6.64 (W)
S-12	EXIST. 28 LF OF SOLID STORM PIPE @1.25%		
S-13	PROP. 106 LF OF SOLID 24" HDPE @0.56%		
S-14	PROP. 48" DRAINAGE MANHOLE PER FDOT STND PLANS	12.20 M.E.	(24") 6.05 (NE) (24") 6.05 (W) (12") 9.33 (S) *
S-15	EXIST. 26 LF OF SOLID 12" STORM PIPE @1.64%		
S-16	PROP. 79 LF OF SOLID 30" HDPE @0.56%		
S-17	PROP. 48" DRAINAGE MANHOLE PER FDOT STND PLANS	12.80	(24") 5.61 (SW) (24") 5.61 (SE)
S-18	PROP. 97 LF OF SOLID 30" HDPE @0.56%		
S-19	PROP. 48" DRAINAGE MANHOLE PER FDOT STND PLANS	12.00 M.E.	(24") 5.14 (NW) (30") 4.64 (SE)
S-20	EXIST. 133 LF OF SOLID 30" RCP @0.73%		

* CONNECT EXISTING ROOF DRAINAGE PIPE TO STRUCTURE. CONTRACTOR SHALL CONFIRM EXIST. INVERT ONSITE.
** BAFFLED INVERT



SECTION A-A
SCALE: 1" = 10'

SECTION B-B
SCALE: 1" = 10'



SECTION C-C
SCALE: 1" = 10'

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

NOTICE
INSPECTION REQUIRED
24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A PERMIT FOR CONSTRUCTION MUST BE OBTAINED FROM THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION PRIOR TO COMMENCING CONSTRUCTION IN THE PUBLIC RIGHT OF WAY.

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

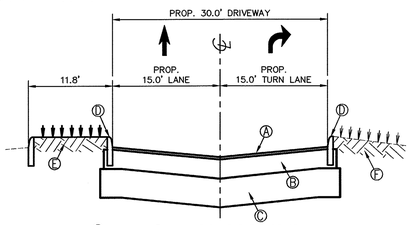
BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY:_____DATE:_____

DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKING & SIGNS



Ⓐ PROP. 3 " ASPHALT PAVEMENT SURFACE (SEE DETAIL, THIS SHEET)
Ⓑ PROP. 8" BASE COURSE (SEE DETAIL, THIS SHEET)
Ⓒ PROP. 12" STABILIZED SUBGRADE (SEE DETAIL, THIS SHEET)
Ⓓ PROP. TYPE "D" CURB
Ⓔ PROP. GRASS
Ⓕ EXIST. GRASS

PROPOSED NEW DRIVEWAY CROSS SECTION "D"-"D"
SCALE: HOR. 1" =10'
VERT. 1' = 4'

666 N.E. 125th STREET, SUITE 247
NORTH MIAMI, FL 33161
Phone: 305.720.2079
C.O.A. 33221

CHRISTOPHER P. COLLINS, P.E. REG.# 73819
STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 73819

4/26/2023

This item has been digitally signed and sealed by Christopher P. Collins, P.E. on the date adjacent to the seal.

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Revision	Date
Comment	
Revision	Date
Comment	
Revision	Date
Comment	
Revision	Date
Comment	
Revision 1	Date 04/19/2021
Comment ECC PRE-CON RFI #3 (04/18/2021)	

Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	1" = 40'
Date:	05/25/2022
Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE
2900 W SAMPLE ROAD
POMPANO BEACH, FLORIDA

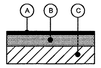
GRADING & DRAINAGE PLAN

Sheet No.
C-8.0

DRC
PZ22-12000027
12/03/2025
DRC
PZ22-12000027
10/01/2025

B.C.H.C.E.D. REF. NO. 200617002

DRC
PZ22-12000027
12/03/2025



(A) 1.5" FLORIDA DOT ASPHALT TYPE S-III, OR S-IIIR. PER CITY OF MIAMI GARDENS, ASPHALT SHALL BE PLACED IN TWO (2) LIFTS.

ALTERNATELY, FDOT ROAD AND BRIDGE DESIGN CRITERIA FOR A SUPER PAVE MIXTURE WITH AN EQUIVALENT TRAFFIC LEVEL DESIGN MIXTURE AS ABOVE WILL BE ACCEPTED.

(B) 8" CRUSHED LIMEROCK BASE COURSE HAVING A MINIMUM LBR OF 100 AND MINIMUM CARBON CALCIUM CONTENT 70%

COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY PER ASTM D-1557, PLACED IN (2) LIFTS, PER MG. PW.

(C) TYPE B OR C, 12" STABILIZED SUB-BASE FILLED WITH MINIMUM LBR OF 40 COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY PER ASTM D-1557.

LIGHT AND MEDIUM DUTY FLEXIBLE PAVEMENT

N.T.S.

(G) 6 INCHES OF REINFORCED CONCRETE, WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI.

(H) 12" CRUSHED LIMEROCK BASE COURSE HAVING A MINIMUM LBR OF 100 AND MINIMUM CARBON CALCIUM CONTENT 70%.

COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY PER ASTM D-1557, PLACED IN (2) LIFTS, PER MG. PW.

12" LIMEROCK BASE (HEAVYLOAD PAVEMENT) TO BE PLACED IN (2) 6" COMPACTED LIFTS

HEAVY LOADING (USE)

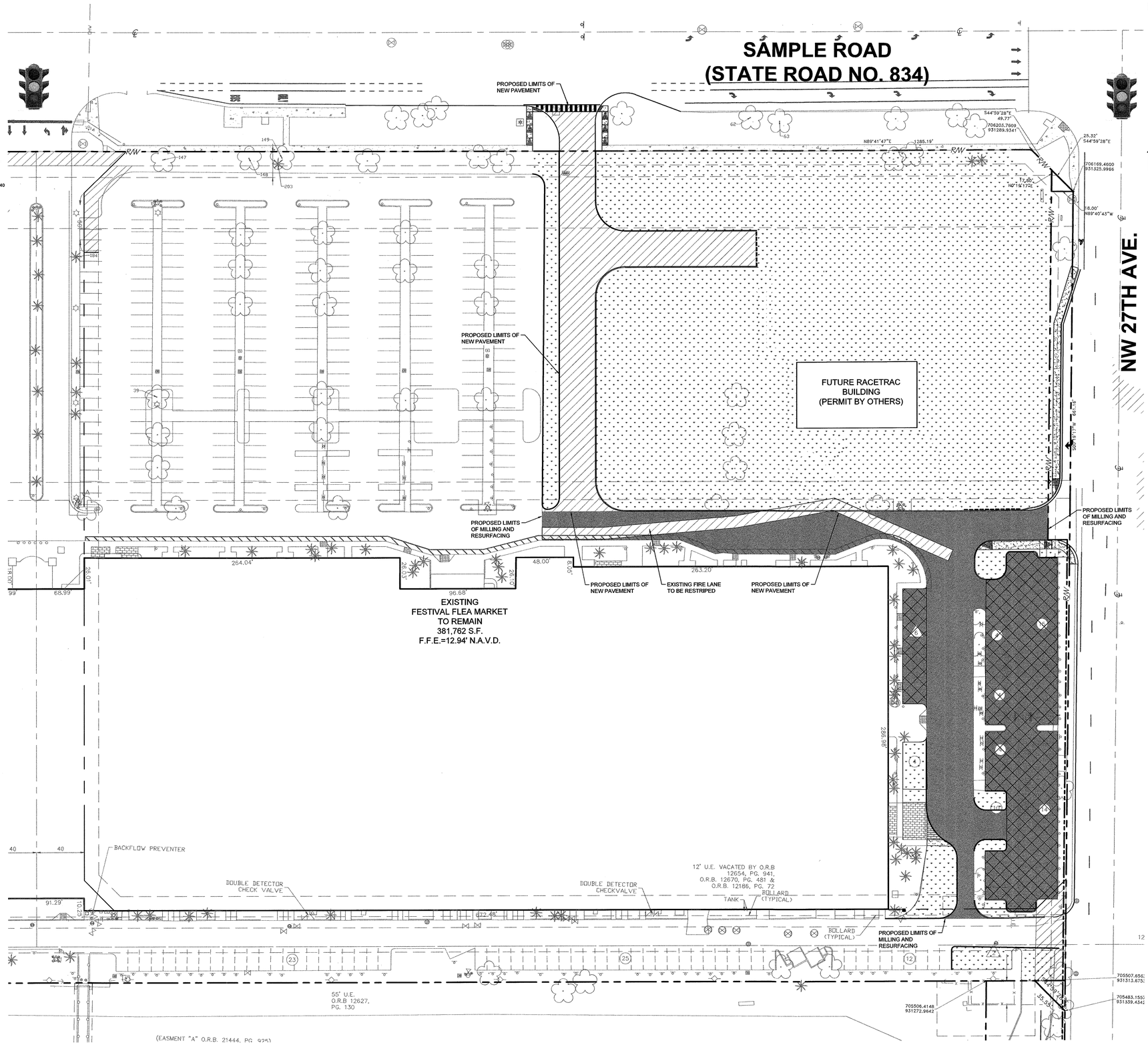
LOADING AREAS, DUMPSTER PADS
N.T.S.

NOTES:
1. BASE MATERIAL SHALL BE EXTENDED A MINIMUM OF 1 FOOT BEYOND THE BACK OF CURB AND SUB-BASE SHALL BE EXTENDED 1 FOOT MIN. BEYOND THE BASE.

NOTE:
SEE GEOTECHNICAL REPORT, (PREPARED BY EAST COAST TESTING AND ENGINEERING DATED JUNE 20, 2016.), FOR SITE PREPARATION AND DETAILED PAVEMENT SECTION REQUIREMENTS.

PAVING DETAILS

N.T.S.



GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

HATCH LEGEND

- PROPOSED CONCRETE SIDEWALK (SEE DETAIL SHEET C-11.0)
- PROPOSED LIMITS OF MILLING AND RESURFACING
- PROPOSED LANDSCAPING
- PROPOSED PAVERS
- PROPOSED RESTRIPING AREA
- PROPOSED NEW PAVEMENT (SEE PAVING DETAILS THIS SHEET)
- EXISTING FIRE LANE TO BE RESTRIPED

DESIGN
666 N.E. 125th STREET,
SUITE 247
NORTH MIAMI, FL 33161
Phone: 305.720.2079
C.O.A. 33221

CHRISTOPHER PATRICK COLLINS LICENSED No. 73819 STATE OF FLORIDA PROFESSIONAL ENGINEER
CHRISTOPHER P. COLLINS, P.E. REG# 73819
3/11/2024

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Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	1" = 40'
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Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE
2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

ON-SITE PAVEMENT PLAN

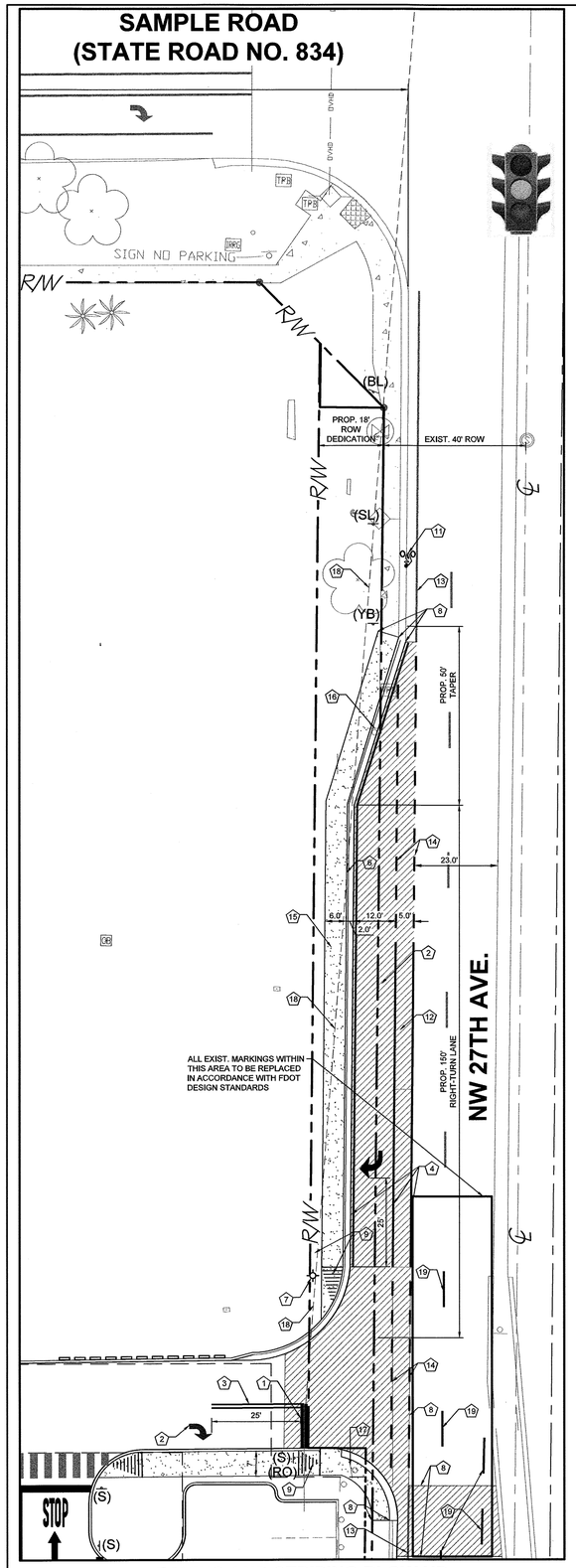
Sheet No.
C-7.5

Sunshine 811
Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.
Check positive response codes before you dig!

DRC
PZ22-12000027
10/01/2025

B.C.H.C.E.D. REF. NO. 200617002

DRC
PZ22-12000027
12/03/2025



PAVING AND STRIPING BLOW UP

SCALE: 1" = 20'

KEYNOTE LEGEND

1. PROP. STOP-BAR PER FDOT INDEX 711-001
2. PROP. WHITE DIRECTIONAL ARROWS PER FDOT INDEX 711-002
3. PROP. 25'-6" DOUBLE YELLOWS PER FDOT INDEX 711-001
4. PROP. 6" WHITE STRIPING PER FDOT INDEX 711-001
5. CROSSWALK STRIPING PER FDOT INDEX 711-001, 10 of 14
6. PROP. TYPE "F" CURB AND GUTTER IN ACCORDANCE WITH FDOT DESIGN STANDARDS 2020, AND FDOT INDEX 520-001
7. PROP. RELOCATED LIGHT POLE
8. MATCH EXISTING LINE AND GRADE
9. PROP. HANDICAP RAMP TYPE CR-G, PER FDOT 2020 INDEX 522-002, 4 OF 8
10. PROP. DETECTABLE WARNING PER FDOT INDEX 522-002, 6 OF 8, B
11. PROP. BICYCLE MARKING PER FDOT INDEX 711-002
12. PROP. 5' WIDE BICYCLE LANE
13. EXIST. 6" WHITE STRIPING
14. PROP. 6" WHITE 2'-4' SKIPS PER FDOT INDEX 711-001
15. PROP. 6" THICK CONCRETE SIDEWALK
16. EXIST. 40 MPH SPEED LIMIT SIGN (TO BE RELOCATED)
17. EXIST. STOP SIGN (TO BE RELOCATED)
18. SAFE SIGHT TRIANGLE TRIANGLE PER FDOT DESIGN MANUAL 2020 CHAPTER 212.11, EXHIBIT 212-6
19. EXIST. MARKINGS TO BE REPLACED IN ACCORDANCE WITH FDOT DESIGN STANDARDS

STRUCTURE TABLE

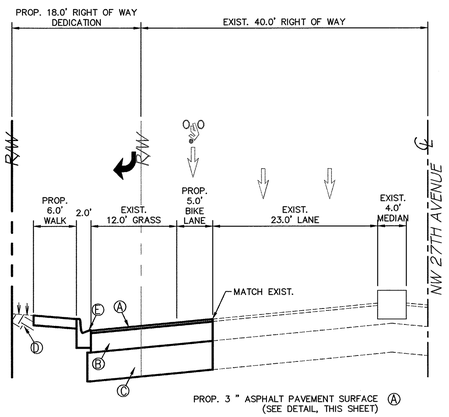
STRUCTURE NUMBER	STRUCTURE TYPE	RIM ELEVATION	INVERT ELEVATION
EX-1	EXISTING CATCH BASIN.	12.00	(15") 3.59 (W)
S-21	PROP. 48" DRAINAGE MANHOLE PER FDOT STND PLANS. CONTRACTOR TO CORE DRILL AND CONNECT PROP. 18" HDPE STORM PIPE	11.00 M.E.	(15") 3.59 (E) (18") 3.59 (NW)
S-22	PROP. 48" CATCH BASIN AND TYPE "C" FRAME, AND GRATE PER FDOT STND PLANS 425-052WITH TYPE II SKIMMER PER FDOT STND PLAN INDEXES 232 & 241	11.30	(18") 3.59 (SE) (18") 3.59 (N)
S-23	PROP. 48" CATCH BASIN AND TYPE "C" FRAME, AND GRATE PER FDOT STND PLANS 425-052WITH TYPE II SKIMMER PER FDOT STND PLAN INDEXES 232 & 241	12.30	(18") 3.59 (S)

SITE SYMBOLS /LEGEND

- (S) STOP SIGN, R1-1, 36"X36"
- (RO) RIGHT TURN ONLY, R3-5R, 30" X 36"
- (YB) YIELD TO BIKES, R4-4, 36" X 30"
- (SL) SPEED LIMIT 40 R2-4, 18" X 24"
- (BL) BIKE LANE R3-17
- PROPOSED SOLID DIRECTIONAL ARROW
- (E.P.) EDGE OF PVMT, ELEV, OR GROUND ELEV.
- PROP. FLOW DIRECTION
- +14.40' EXIST. GRADE ELEVATION

HATCH LEGEND

- PROPOSED CONCRETE SIDEWALK
- PROPOSED NEW PAVEMENT. CONTRACTOR SHALL MATCH EXISTING PAVEMENT PER FDOT STANDARDS SPECIFICATIONS



PROP. 3 " ASPHALT PAVEMENT SURFACE (A) (SEE DETAIL, THIS SHEET)

PROP. 12" BASE COURSE (B) (SEE DETAIL, THIS SHEET)

PROP. 12" STABILIZED SUBGRADE (C) (SEE DETAIL, THIS SHEET)

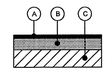
EXIST. SOLID SOD (D)

PROP. TYPE "F" CURB & GUTTER (E)

CONTRACTOR SHALL VERIFY PAVEMENT SPECIFICATION WITH BROWARD COUNTY INSPECTOR PRIOR TO CONSTRUCTION

NW 27TH AVENUE
PROPOSED TURN LANE CROSS SECTION "A"-"A"

SCALE: HOR. 1" =10'
VERT. 1' = 4'



(A) 3" OPTIONAL BASE GROUP 9 (OBG9), ASPHALT SHALL BE PLACED IN TWO (2) LIFTS: 2" OF SP-12.5 AND 1" OF SP-9.5.

(B) 12" CRUSHED LIMEROCK BASE COURSE HAVING A MINIMUM LBR OF 100 AND MINIMUM CARBON CALCIUM CONTENT 70%

COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY PER ASTM D-1557, PLACED IN (2) LIFTS, PER MG, PW.

(C) TYPE B OR C, 12" STABILIZED SUB-BASE FILLED WITH MINIMUM LBR OF 40 COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY PER ASTM D-1557.

FDOT PAVEMENT DETAIL

SCALE: N.T.S.

PAVEMENT NOTE:

ANY PAVEMENT MARKINGS DAMAGED DUE TO CONSTRUCTION WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

ELEVATIONS NOTE:

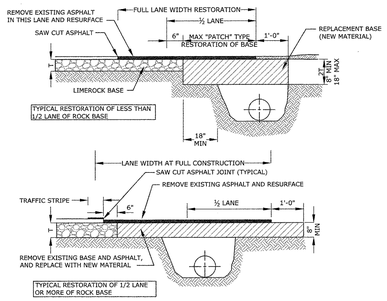
ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND ARE BASED ON THE BROWARD COUNTY BENCHMARK #2802752C.

REFER TO BOUNDARY AND TOPOGRAPHIC SURVEY CONDUCTED BY MILLER LEGG.

ADA NOTE:

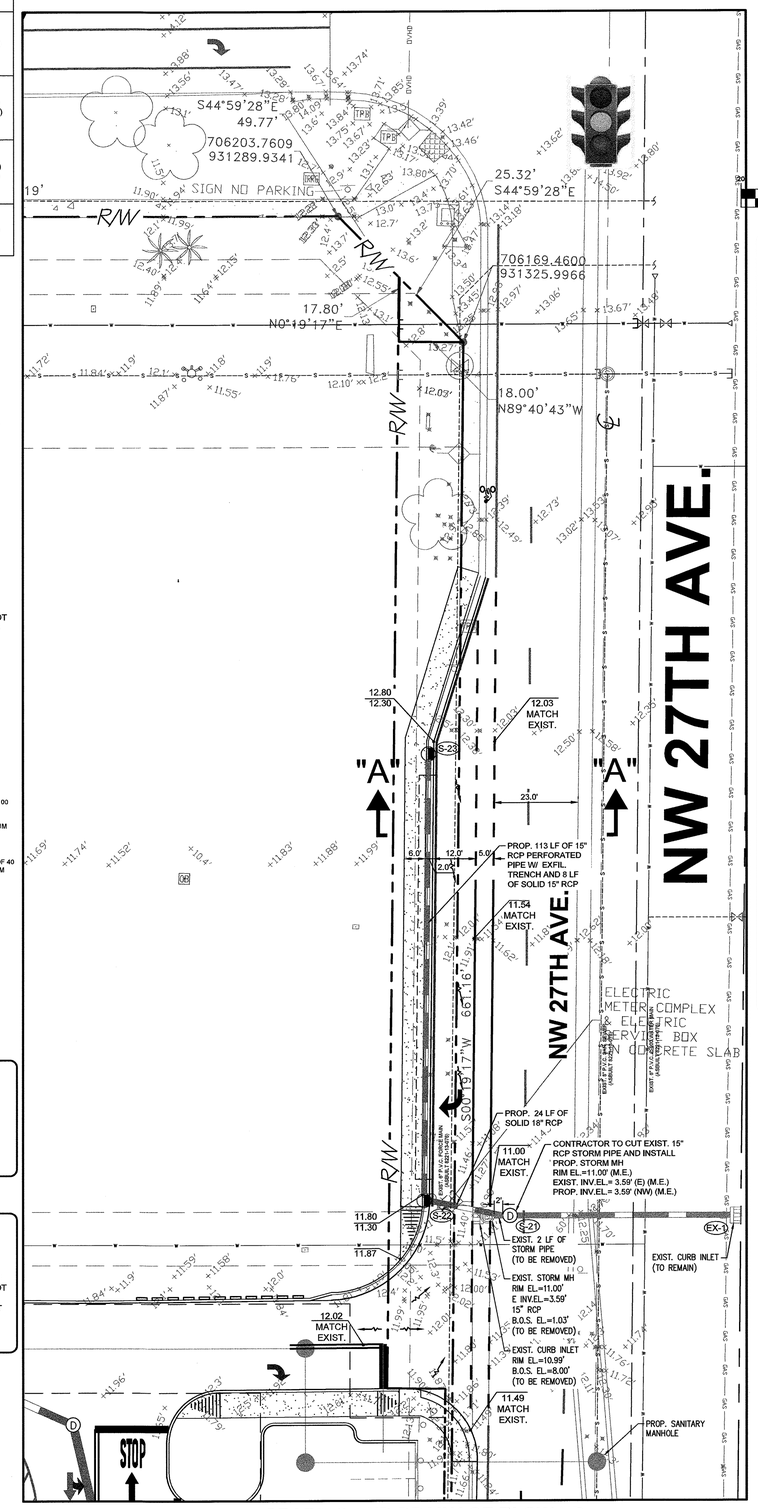
CONSULTANT HAS IDENTIFIED AND USED THE CURRENT VERSION OF ALL LOCAL, STATE, AND FEDERAL ACCESSIBILITY GUIDELINES FOR SITE ACCESSIBILITY THE SITE HAS BEEN DESIGNED IN ACCORDANCE WITH, BUT NOT LIMITED TO, CITY, COUNTY, AND STATE ACCESSIBILITY CODES, AND THE 2010 AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN (2010 ADA STANDARDS), AS AMENDED.

BROWARD COUNTY PUBLIC WORKS DEPARTMENT | WATER & WASTEWATER SERVICES ENGINEERING DIVISION 2555 W. COPANS ROAD POMPANO BEACH, FL 33069 PHONE NO. 954-831-0745 FAX: 954-831-0929 | STANDARD DETAIL



1. BASE MATERIAL SHALL HAVE A MINIMUM LBR OF 100 AND A MINIMUM CARBONATE CONTENT OF 70% (60% FOR LOCAL STREETS).
2. BASE SHALL BE PLACED IN 6" MAXIMUM THICKNESS LAYERS WITH EACH LAYER COMPACTED AS REQUIRED AND TESTED PRIOR TO THE PLACEMENT OF THE SUCCEEDING LAYERS.
3. SUBGRADE MATERIAL SHALL BE GRANULAR AND ANGULAR AND SHALL HAVE A MINIMUM LBR OF 40.
4. BACKFILL SHALL BE PLACED AND COMPACTED IN 6" LAYERS, BUT TESTING WILL BEGIN 12" ABOVE THE INSTALLED FACILITY.
5. ALL EDGES OF EXISTING ASPHALT PAVEMENT THAT ABUT RESURFACING SHALL BE SAW CUT IN STRAIGHT LINES PARALLEL TO OR PERPENDICULAR TO THE ROADWAY, PRIOR TO RESURFACING.
6. RESURFACING MATERIAL SHALL BE CONSISTENT WITH SURROUNDING SURFACE, AND SHALL BE APPLIED IN 2 LIFTS, A MINIMUM OF ½ INCH AND A MAXIMUM OF 2" IN THICKNESS.
7. TRAFFIC STRIPES SHALL NOT BE PLACED DIRECTLY ON TOP OF THE JOINT.
8. FOR STATE ROADS REFER TO FDOT SPECIFICATIONS AND REQUIREMENTS.

REPLACES FORMER DWG NO.19A	RESTORATION OF ROADWAY CUT FOR PARALLEL UTILITY INSTALLATION	FIGURE 182
REVISED 2/23/2011		



GRADING AND DRAINAGE BLOW UP

SCALE: 1" = 20'

GRAPHIC SCALE

0 10 20 40

(IN FEET)

BROWARD COUNTY NOTES:

THE FOLLOWING ITEMS ARE NOT REVIEWED OR ACCEPTED BY BROWARD COUNTY:

1. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECT'S DESIGN OR OPERATION. THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.

2. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW AND APPROVE, OR INSPECT AND ACCEPT THE FOLLOWING ITEMS FOR MAINTENANCE: PAVEMENT MARKINGS ON OR ADJACENT TO PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.

3. THE CITY ENGINEER IS RESPONSIBLE FOR THE REVIEW AND APPROVAL OF THE DESIGN AND OPERATION OF THE PROJECT, AND FOR THE INSPECTION AND ACCEPTANCE OF THE FOLLOWING ITEMS THAT WILL BE MAINTAINED BY THE CITY: PAVEMENT MARKINGS ON OR ADJACENT TO PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER BRICKS, PAVEMENT MARKINGS ON OR ADJACENT TO PAINTED ASPHALT, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK AND ASPHALT WORK.

4. ALL TRAFFIC CONTROL DEVICES MAINTAINED BY BROWARD COUNTY, THAT ARE REMOVED OR DAMAGED BY CONSTRUCTION, SHALL BE REPLACED BY CONTRACTOR USING CURRENT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS.

Sunshine811
Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.
Check positive response codes before you dig!

DESIGN
666 N.E. 125th STREET, SUITE 247
NORTH MIAMI, FL 33161
Phone: 305.720.2079
C.O.A. 33221

CHRISTOPHER PATRICK COLLINS, P.E. LICENSE No. 73819 STATE OF FLORIDA PROFESSIONAL ENGINEER
CHRISTOPHER P. COLLINS, P.E. REG# 73819
3/11/2024

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Revision 6	Date
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Revision 5	Date
Comment	
Revision 4	Date
Comment	
Revision 3	Date
Comment	
Revision 2	Date
Comment	
Revision 1	Date
Comment	

Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	1" = 20'
Date:	05/25/2022
Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE
2900 W SAMPLE ROAD
POMPANO BEACH, FLORIDA

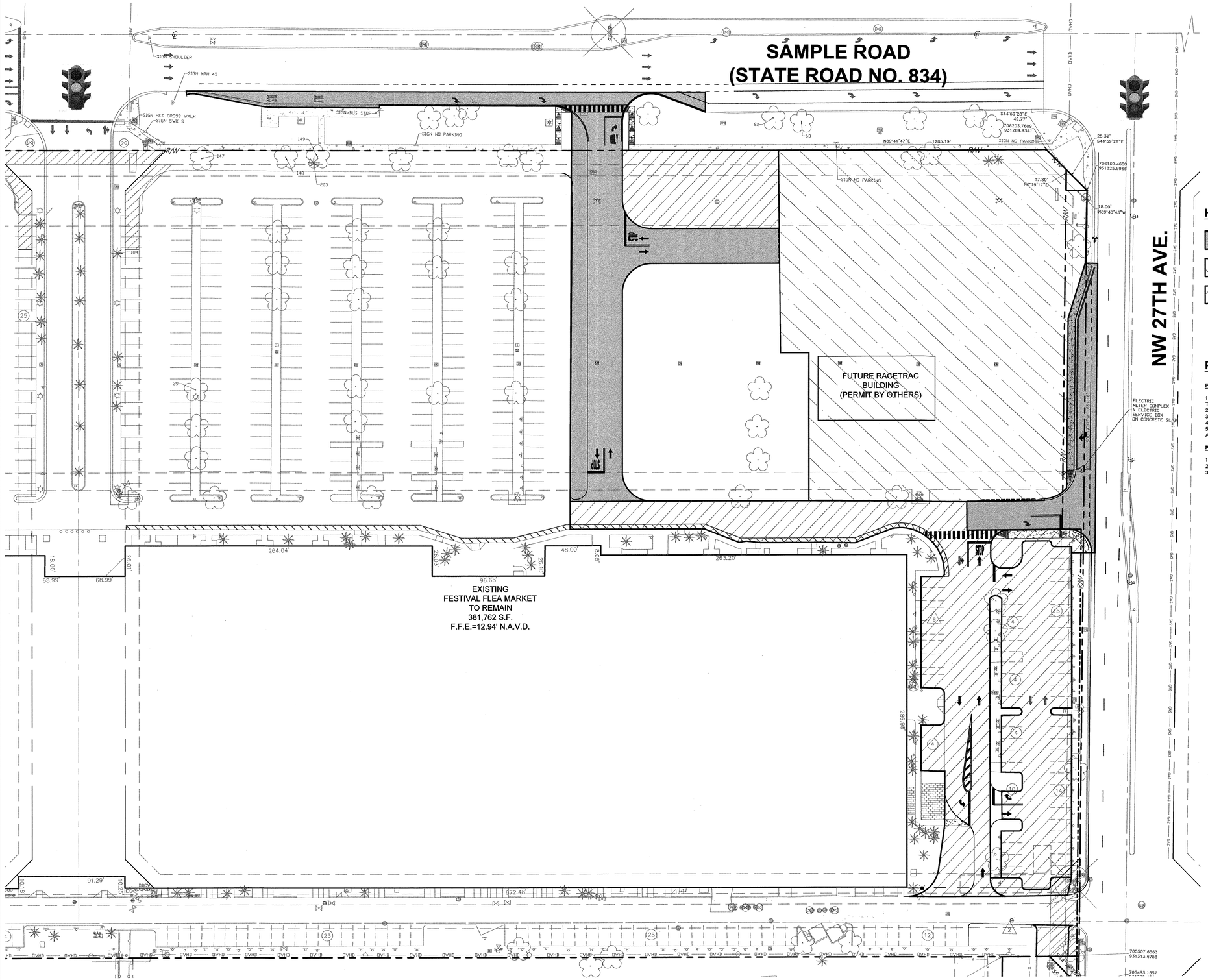
NW 27TH AVENUE TURNLANE BLOW UP PLAN

Sheet No.
C-7.4

DRC
PZ22-12000027
10/01/2025

B.C.H.C.E.D. REF. NO. 200617002

DRC
PZ22-12000027
12/03/2025



HATCH LEGEND

- PHASE 1
- PHASE 2
- PHASE 3

PHASING NOTES

PHASE 1

1. CONSTRUCTION OF ALL DEMOLITION, SITE WORK, ASPHALT, CURBING, STRIPING, ETC WITHIN THE HATCHED PHASE I AREA.
2. VERTICAL CONSTRUCTION OF THE PROPOSED 25,500 SF RETAIL/RESTAURANT BUILDING.
3. OFF-SITE CONSTRUCTION OF THE PROPOSED ENTRANCE ON SAMPLE ROAD.
4. INSTALLATION OF ALL PROPOSED LANDSCAPE/IRRIGATION WITHIN THE HATCHED PHASE I AREA.
5. CONSTRUCTION OF ALL WATER AND SEWER SERVICE MAINS, RELOCATION AND FIRE HYDRANTS, APPARATUSES FOR THE ENTIRE PROJECT (BOTH PHASE I AND PHASE II HATCHED AREAS)

PHASE 2

1. CONSTRUCTION OF ALL DEMOLITION WITHIN THE HATCHED PHASE 2 AREA.
2. OFF-SITE CONSTRUCTION OF THE PROPOSED TURN LANE ON NW 27TH AVENUE.
3. INSTALLATION OF ALL PROPOSED LANDSCAPE/IRRIGATION WITHIN THE HATCHED PHASE 2 AREA.

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C.O.A. 33221

CHRISTOPHER PATRICK COLLINS LICENSE No. 73819 STATE OF FLORIDA PROFESSIONAL ENGINEER
CHRISTOPHER COLLINS, P.E.
REG.# 73819
3/11/2024

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Drawn by:	A.T.S.
Checked by:	C.P.C.
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Scale:	1" = 40'
Date:	05/25/2022
Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE

2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

PHASING PLAN

Sheet No.

C-7.3

DRC
PZ22-12000027
10/01/2025

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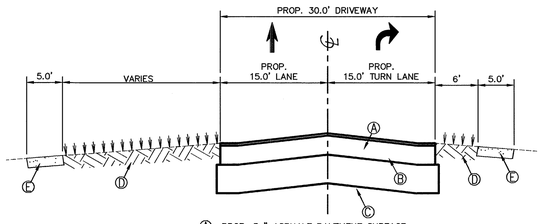
12/03/2025

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)



Ⓐ PROP. 3 " ASPHALT PAVEMENT SURFACE (SEE DETAIL, THIS SHEET)

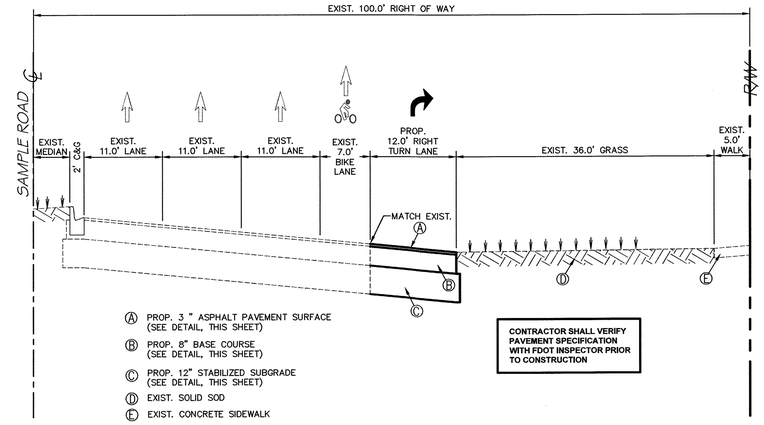
Ⓑ PROP. 8" BASE COURSE (SEE DETAIL, THIS SHEET)

Ⓒ PROP. 12" STABILIZED SUBGRADE (SEE DETAIL, THIS SHEET)

Ⓓ EXIST. GRASS

Ⓔ PROP. CONCRETE SIDEWALK

SAMPLE ROAD
PROPOSED NEW DRIVEWAY CROSS SECTION "B"-"B"
SCALE: HOR. 1" =10'
VERT. 1' = 4'



Ⓐ PROP. 3 " ASPHALT PAVEMENT SURFACE (SEE DETAIL, THIS SHEET)

Ⓑ PROP. 8" BASE COURSE (SEE DETAIL, THIS SHEET)

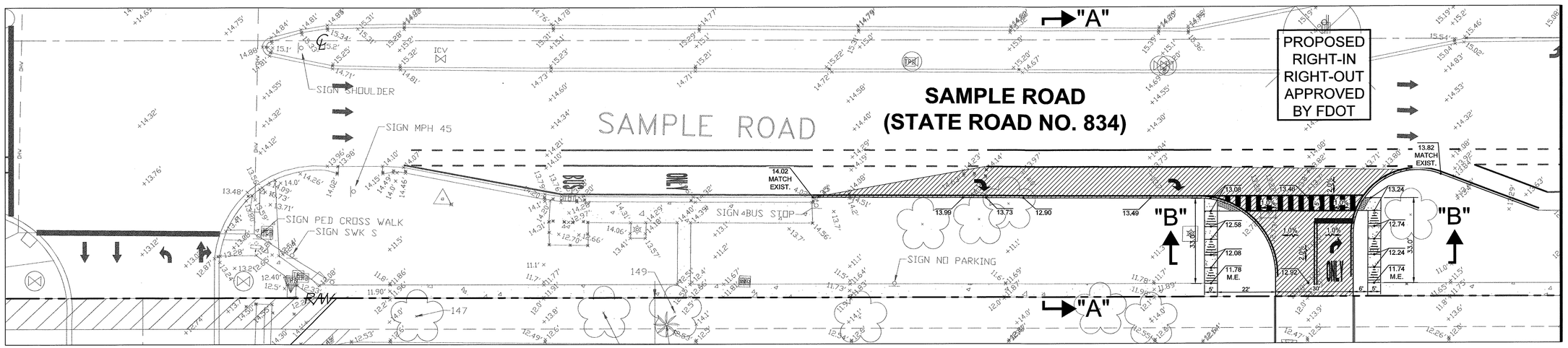
Ⓒ PROP. 12" STABILIZED SUBGRADE (SEE DETAIL, THIS SHEET)

Ⓓ EXIST. SOLID SOD

Ⓔ EXIST. CONCRETE SIDEWALK

CONTRACTOR SHALL VERIFY PAVEMENT SPECIFICATION WITH FDOT INSPECTOR PRIOR TO CONSTRUCTION

SAMPLE ROAD
PROPOSED NEW DRIVEWAY CROSS SECTION "A"-"A"
SCALE: HOR. 1" =10'
VERT. 1' = 4'



SITE SYMBOLS /LEGEND

(E.P.) EDGE OF PVMT. ELEV. OR GROUND ELEV.

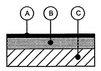
X% PROP. FLOW DIRECTION AND SLOPE

+14.40' EXIST. GRADE ELEVATION

HATCH LEGEND

EXISTING CONCRETE SIDEWALK

PROPOSED NEW PAVEMENT. CONTRACTOR SHALL MATCH EXISTING PAVEMENT PER FDOT STANDARDS SPECIFICATIONS



Ⓐ 3" OPTIONAL BASE GROUP 9 (OBG9). ASPHALT SHALL BE PLACED IN TWO (2) LIFTS: 2" OF SP-12.5 AND 1" OF SP-9.5.

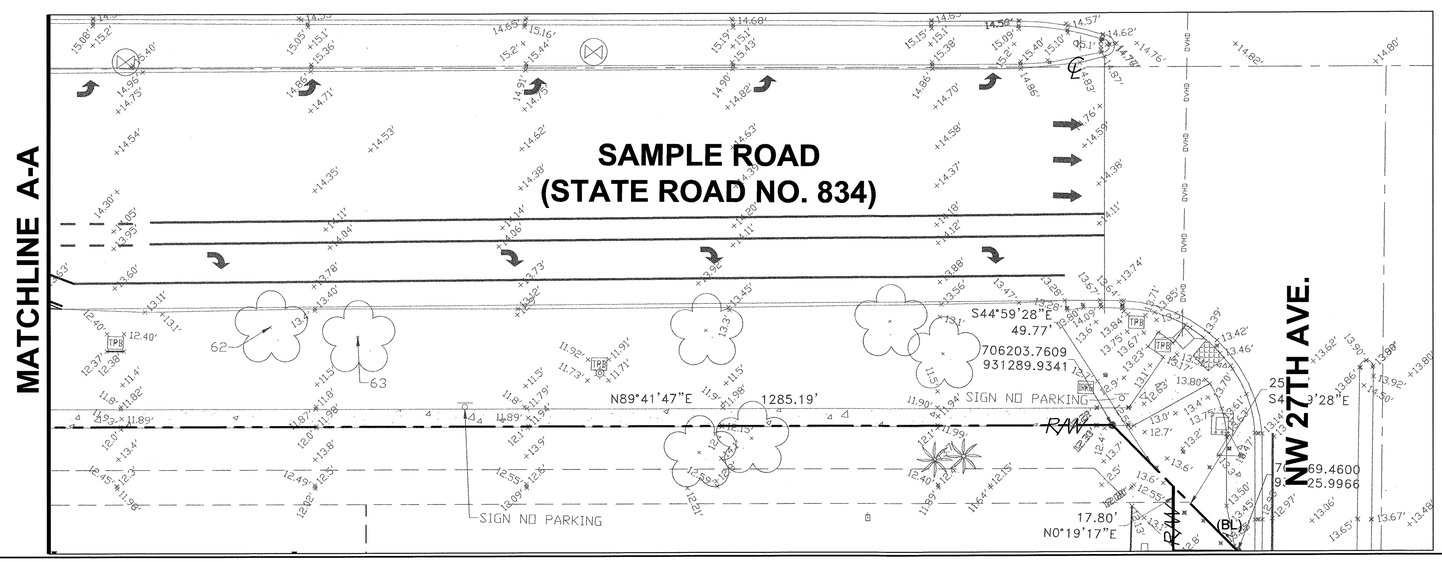
Ⓑ 8" CRUSHED LIMEROCK BASE COURSE HAVING A MINIMUM LBR OF 100 AND MINIMUM CARBON CALCIUM CONTENT 70%.

COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY PER ASTM D-1557, PLACED IN (2) LIFTS, PER MG, PW.

Ⓒ TYPE B OR C, 12" STABILIZED SUB-BASE FILLED WITH MINIMUM LBR OF 40 COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY PER ASTM D-1557.

FDOT PAVEMENT DETAIL

N.T.S.



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10/01/2025

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C.O.A. 33221

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CHRISTOPHER COLLINS, P.E.
REG.# 73819
3/11/2024

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Plans for

FESTIVAL MARKETPLACE

2900 W SAMPLE ROAD
POMPANO BEACH, FLORIDA

GRADING BLOW UP PLAN

Sheet No.

C-7.2

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12/03/2025

SITE SYMBOLS /LEGEND

- (S) STOP SIGN, R1-1, 36"X36"
- (RO) RIGHT TURN ONLY, R3-5R, 24" X 30"
- (OW) ONE-WAY, R6-1R, 36"X12"
- PROPOSED SOLID DIRECTIONAL ARROW

HATCH LEGEND

- PROPOSED CONCRETE SIDEWALK
- PROPOSED NEW PAVEMENT. CONTRACTOR SHALL MATCH EXISTING PAVEMENT PER FDOT STANDARDS SPECIFICATIONS

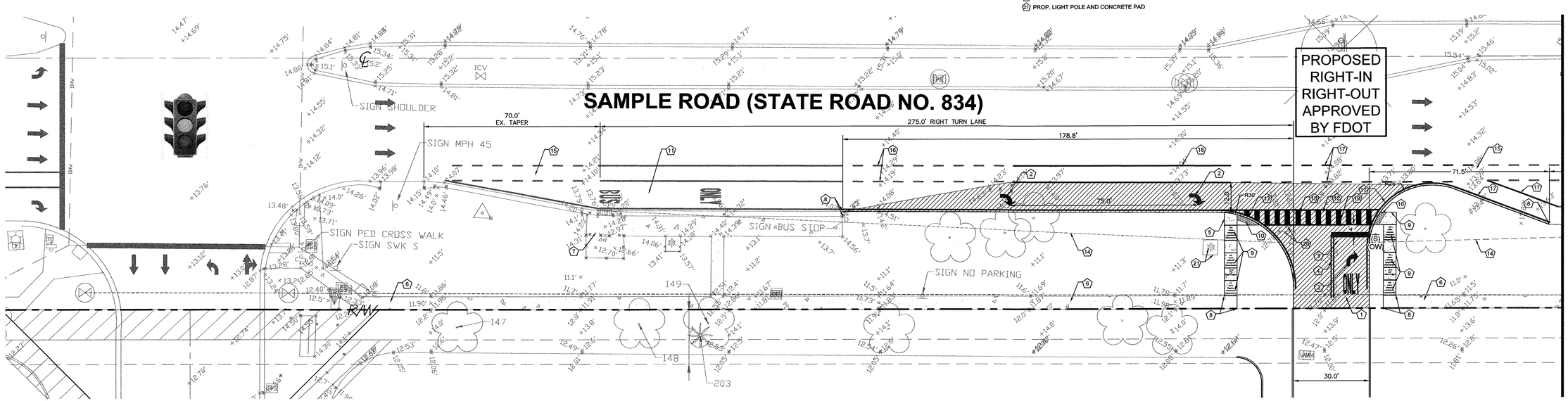
KEYNOTE LEGEND

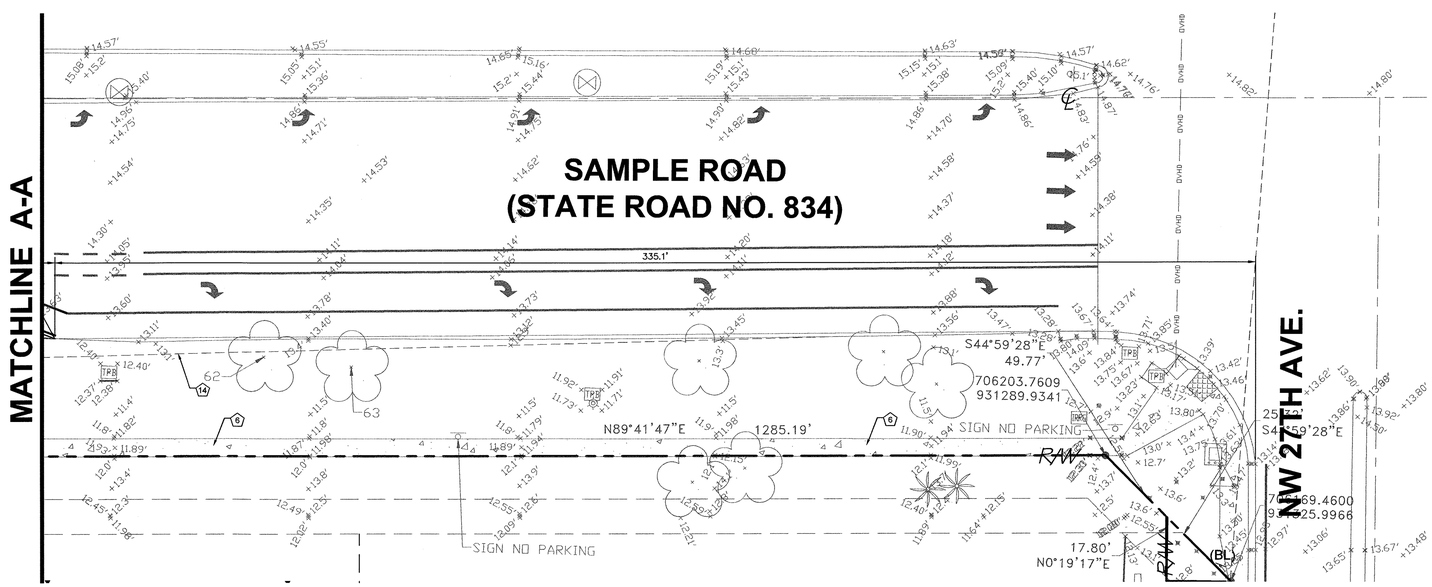
1. PROP. PAVEMENT MARKING PER FDOT 2022-23 INDEX 711-001
2. PROP. WHITE DIRECTIONAL TRAFFIC ARROWS PER FDOT 2022-23 INDEX 711-001
3. PROP. STOP-BAR PER FDOT 2022-23 INDEX 711-001
4. PROP. 6" DOUBLE YELLOW STRIPING PER FDOT 2022-23 INDEX 711-001
5. PROP. 6" THICK CONCRETE SIDEWALK
6. EXIST. 6" THICK CONCRETE SIDEWALK
7. EXIST. BUS STOP
8. MATCH EXISTING LINE AND GRADE
9. PROP. HANDICAP RAMP TYPE CR-G, PER FDOT 2022-23 INDEX 522-002, 4 OF 7
10. PROP. DETECTABLE WARNING PER FDOT 2022-23 INDEX 522-002, 6 OF 7
11. EXIST. "BUS ONLY" LANE
12. PROP. DRIVEWAY PER FDOT DESIGN MANUAL 2021 CHAPTER 214.1
13. PROP. MAINTENANCE OF TRAFFIC PER FDOT INDEX 102-613, 102-615, 102-660
14. PROP. SAFE SIGHT TRIANGLE TRIANGLE PER FDOT DESIGN MANUAL 2021 CHAPTER 212.11, EXHIBIT 212-6
15. EXIST. 6' WIDE BICYCLE LANE
16. EXIST. 2'-4" 6" WHITE SKIPS PER BROWARD COUNTY DETAIL (SEE SHEET C-11.1)
17. PROP. 2'-4" 6" WHITE SKIPS PER BROWARD COUNTY DETAIL (SEE SHEET C-11.1)
18. PROP. 6" WHITE SOLID STRIPPING
19. PROP. CROSSWALK STRIPING PER FDOT 2022-23 INDEX 711-001, 9 OF 13
20. EXIST. LIGHT POLE AND CONCRETE PAD (TO BE RELOCATED)
21. PROP. LIGHT POLE AND CONCRETE PAD

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)





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C.O.A. 33221

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CHRISTOPHER COLLINS, P.E. REG.# 73819

3/11/2024

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Plans for

FESTIVAL MARKETPLACE
2900 W SAMPLE ROAD
POMPANO BEACH, FLORIDA

DRIVEWAY BLOW UP PLAN

Sheet No.
C-7.1

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SITE SYMBOLS /LEGEND

- (S) STOP SIGN, R1-1, 36"X36"
- (DN) DO NOT ENTER (R5-1)
- (DE) DEAD END (W14-1)
- (YB) YIELD TO BIKES, R4-4, 36" X 30"
- (SL) SPEED LIMIT 40 R2-4, 18" X 24"
- (BL) BIKE LANE R3-17
- PROPOSED SOLID DIRECTIONAL ARROW

HATCH LEGEND

- PROPOSED CONCRETE SIDEWALK
- PROPOSED OFFSITE NEW PAVEMENT. CONTRACTOR SHALL MATCH EXISTING PAVEMENT PER POMPANO BEACH STANDARDS SPECIFICATIONS
- EXISTING 225' X 43' U.E. (O.R.B. 16060, PG. 695) TO BE VACATED

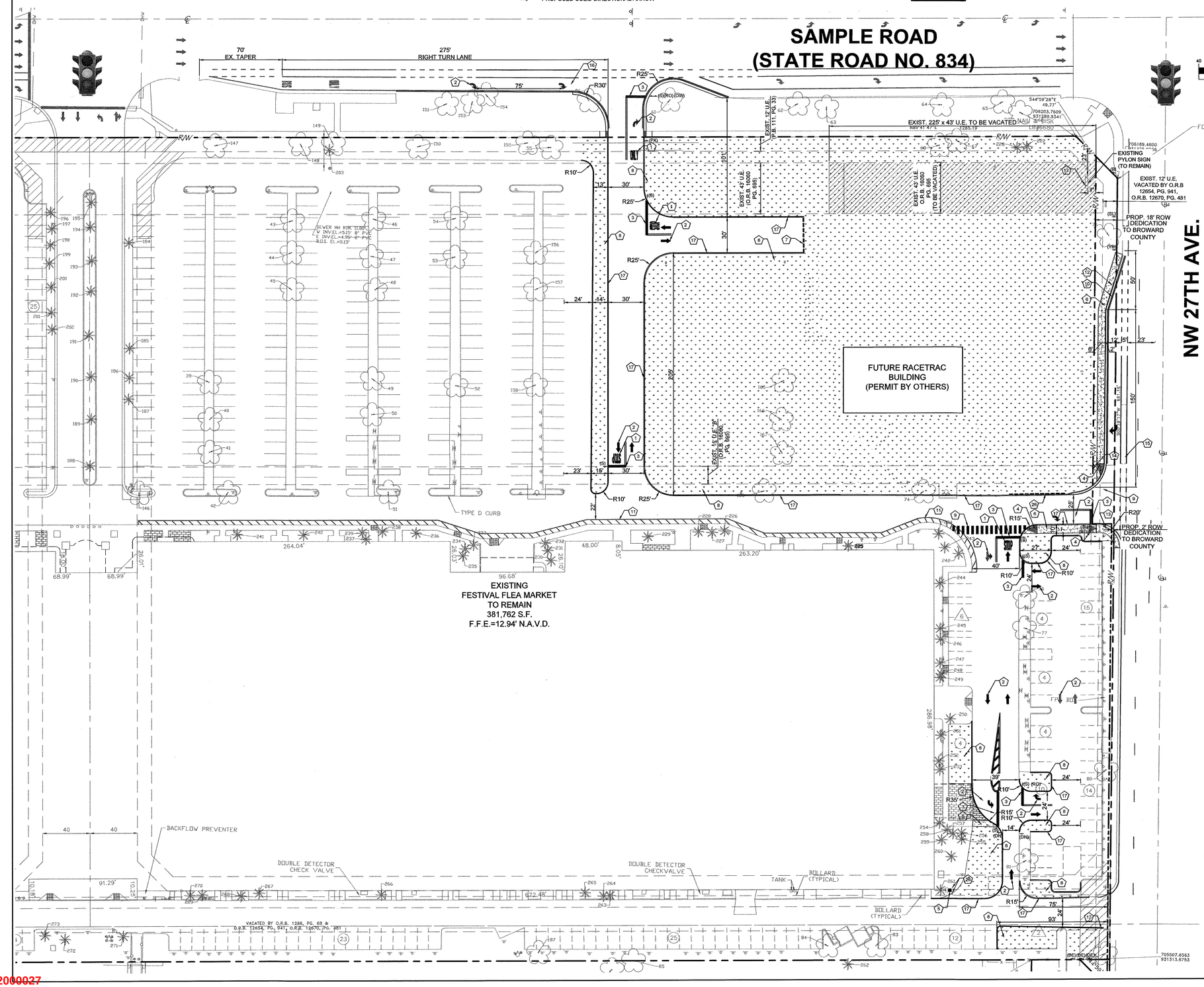
GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

KEYNOTE LEGEND

1. PROPOSED PAVEMENT MARKING (TYP.)
2. PROPOSED WHITE DIRECTIONAL TRAFFIC ARROWS
3. PROPOSED 24" STOP BAR
4. PROPOSED HANDICAP RAMP TYPE CR-G, PER FDOT 2020 INDEX 522-002, 4 OF 8
5. PROPOSED FIRE HYDRANT
6. PROPOSED 6" THICK CONCRETE SIDEWALK
7. PROPOSED TRAFFIC BARRICADES
8. PROPOSED LANDSCAPE
9. PROPOSED PEDESTRIAN CROSSWALK STRIPING
10. PROPOSED 213 LF OF TYPE "F" CURB AND GUTTER
11. EXISTING FIRE LANE STRIPING (TO REMAIN)
12. EXISTING 40 MPH SPEED LIMIT SIGN (TO BE RELOCATED)
13. EXISTING STOP SIGN (TO BE RELOCATED)
14. PROPOSED RELOCATED LIGHT POLE
15. PROPOSED GREEN PATTERNED PAVEMENT PER BROWARD COUNTY TRAFFIC ENGINEERING DIVISION CURRENT STANDARDS
16. SEE ADDITIONAL TURN LANE IMPROVEMENTS (SHEET 7.1)
17. PROPOSED 5.5" TYPE "D" CURB (SEE DETAIL SHEET 11.0)



GENERAL SITE NOTES

1. FOR LEGAL DESCRIPTION, BOUNDARY INFO., AND BENCHMARK INFO. SEE SITE SURVEY SHEETS.
2. PRIOR TO ANY CONSTRUCTION, CONTRACTOR SHALL FIELD STAKE ALL CENTERLINE GEOMETRY TO ENSURE PROPOSED DIMENSIONS FIT EXISTING CONDITIONS. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARISE.
3. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
4. CONTRACTOR SHALL MATCH PROPOSED CURB AND GUTTER, CONCRETE AND PAVEMENT TO EXISTING IN GRADE AND ALIGNMENT.
5. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS, SPECIFICATIONS AND GEOTECHNICAL REPORT. THE MORE STRINGENT CRITERIA SHALL APPLY.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE DONE TO ANY EXISTING ITEM DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO, OR BETTER THAN EXISTING CONDITIONS.
7. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL COUNTY REGULATIONS, CODES, AND O.S.H.A. STANDARDS.
8. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF PRECISE BUILDING DIMENSIONS AND EXACT BUILDING AND UTILITY ENTRANCE LOCATIONS.
9. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
10. ALL RADII FOR PARKING ISLAND ARE 3' AND/OR 10' UNLESS OTHERWISE NOTED.

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STATE OF FLORIDA
PROFESSIONAL ENGINEER
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Plans for

FESTIVAL MARKETPLACE

2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

SITE PLAN

Sheet No.

C-7.0

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10/01/2025

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PROJECT DATA

2900 W SAMPLE ROAD
POMPANO BEACH, FLORIDA

SITE DATA

FOLIO ID	4842.21.07.0010
PARCEL SIZE	1,180,423 S.F. = 27.10 AC
IMPACTED AREA	182,728 S.F. = 4.19 AC
EXISTING ZONING	B-3
EXISTING LAND USE	C (COMMERCIAL)

BUILDING DATA

EXISTING FLEA MARKET BLDG. AREA	182,728 SF

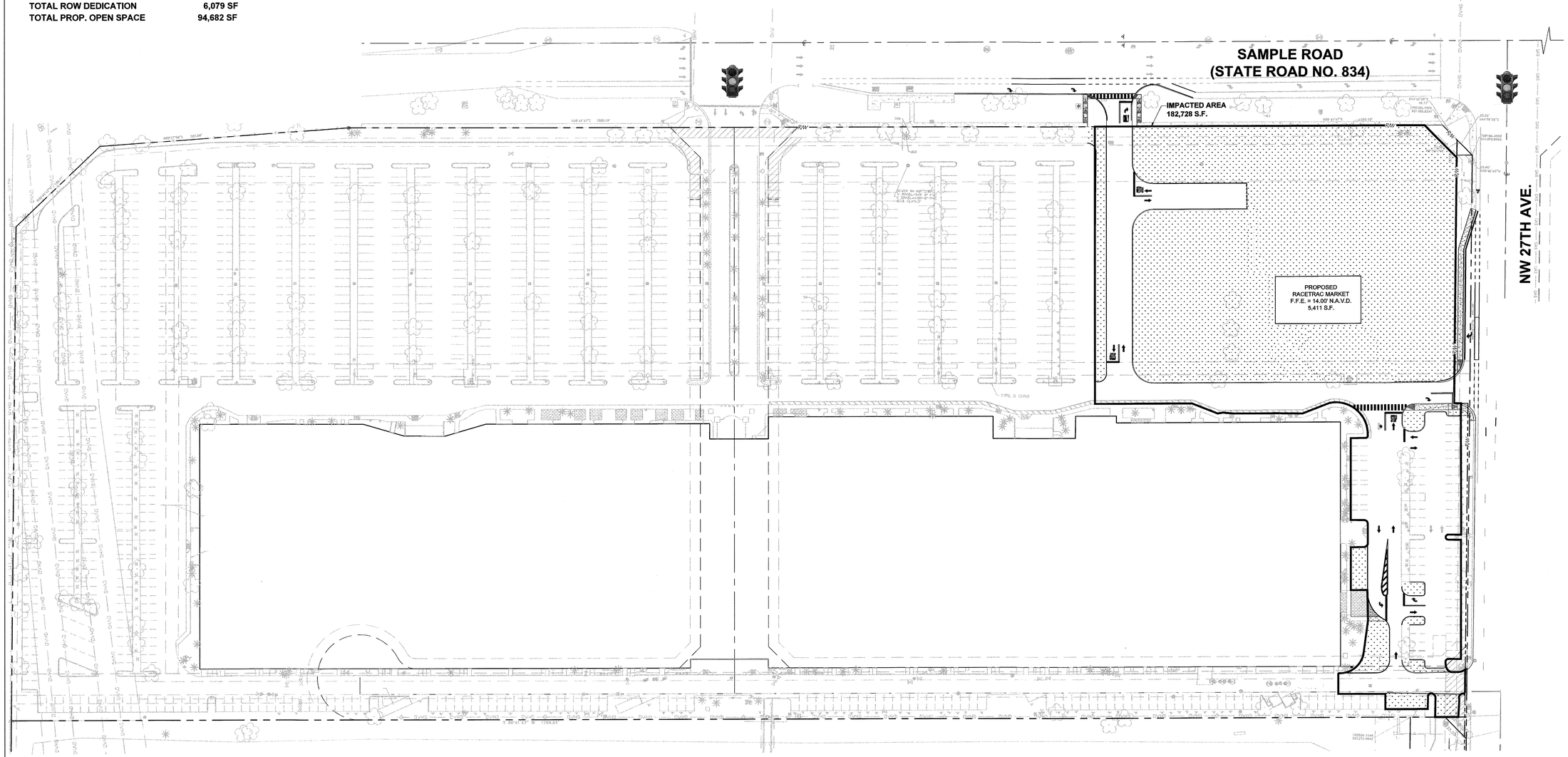
PARKING DATA

TOTAL EXISTING PARKING	974 SPACES

OPEN SPACE DATA

TOTAL PROP. SITE AREA	182,728 SF
TOTAL ROW DEDICATION	6,079 SF
TOTAL PROP. OPEN SPACE	94,682 SF

GRAPHIC SCALE
60 0 30 60 120
(IN FEET)
1 inch = 60 ft.



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Plans for

FESTIVAL MARKETPLACE

2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

MASTER SITE PLAN

Sheet No.
C-6.0

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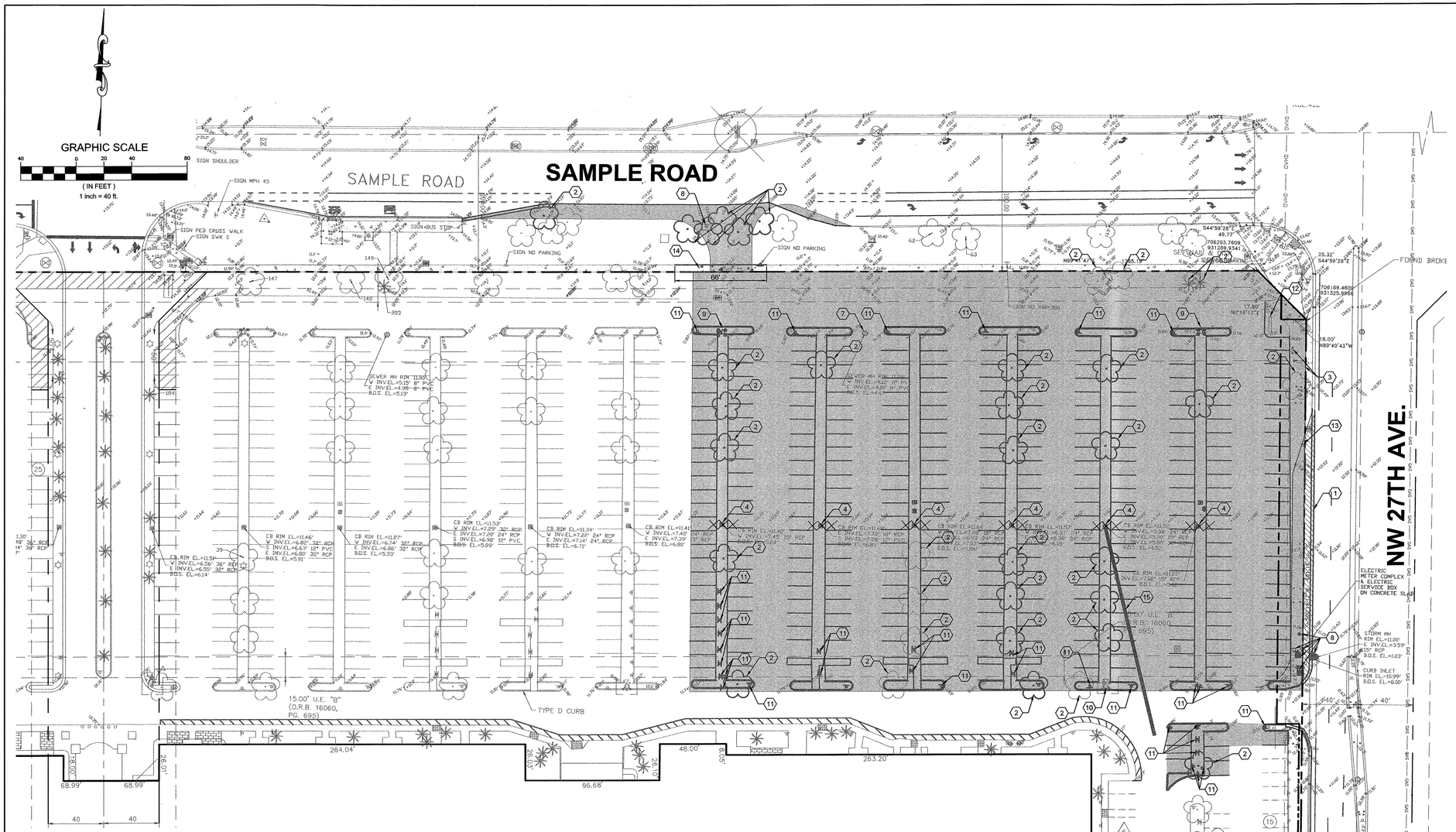
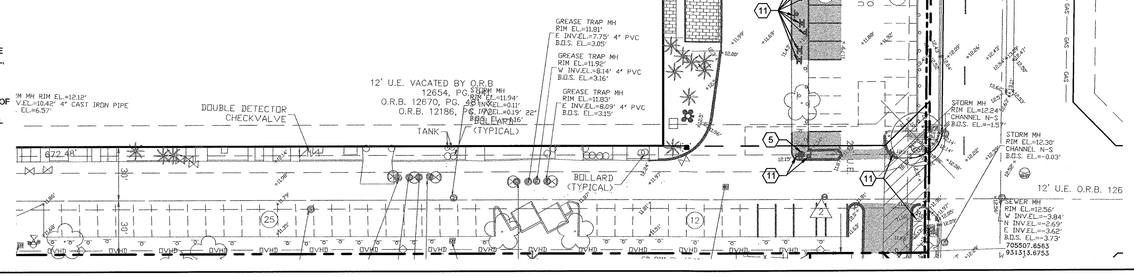


DEMOLITION NOTES

1. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, SUPERVISION, AND EQUIPMENT REQUIRED FOR THE ORDERLY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES, PAVEMENT AND UTILITIES AS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN.
2. DEMOLITION SHALL BE CONDUCTED AS SHOWN ON CONSTRUCTION DRAWINGS AND SHALL MEET APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS
3. THE CONTRACTOR SHALL COORDINATE DEMOLITION OF UTILITIES WITH UTILITY COMPANIES, GIVING THEM NOTICE OF DESTRUCTION AND REMOVAL OF SERVICE LINES AND CAPPING LINES WHEN NECESSARY.
4. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ON-SITE LOCATIONS OF EXISTING UTILITIES.
5. THE CONTRACTOR IS REQUIRED TO FAMILIARIZE HIMSELF WITH THE STRUCTURES TO BE DEMOLISHED. A BRIEF DESCRIPTION OF THE STRUCTURES IS INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY.
6. THE DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: PAVEMENTS, SIGNS, CURBS, UTILITIES, SIDEWALKS, TREES, BUILDING AND MISCELLANEOUS APPURTENANCES, UTILITY DEMOLITION INCLUDES ABOVE GROUND AND UNDERGROUND UTILITIES.
7. THE CONTRACTOR SHALL PRESERVE ANY BENCHMARKS LOCATED ON THE SITE.
8. PROVIDE ADEQUATE PROTECTION FOR PERSONS AND PROPERTY AT ALL TIMES. EXECUTE THE WORK IN A MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY AND PREVENT INTERFERENCE WITH THE USE OF AND ACCESS TO ADJACENT BUILDINGS. STREETS AND SIDEWALKS SHALL NOT BE BLOCKED BY DEBRIS AND EQUIPMENT.
9. WET DOWN DEBRIS DURING DEMOLITION AND LOADING OPERATIONS TO PREVENT THE SPREAD OF DUST.
10. CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINATE IS ENCOUNTERED DURING THE DEMOLITION/EXCAVATION PROCESS.
11. DISPOSAL:
    A. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL STRUCTURES, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDEROUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE FILL MATERIAL, DEPOSITED AND COMPACTED IN 12 INCH LIFTS.
    B. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING OF THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
12. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING BUILDINGS AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES AND THE CONSTRUCTION OF THE NEW DEVELOPMENT.
13. PERMITTING: IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY REQUIRED PERMITTING FOR DEMOLITION FROM RESPONSIBLE REGULATORY AGENCIES AND FULLY ACKNOWLEDGE AND COMPLY WITH ALL REQUIREMENTS PRIOR TO COMMENCING DEMOLITION WORK.
14. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED IN ORDER TO PERFORM THE CONTRACT WORK FOR THIS PROJECT. THE CONTRACTOR SHALL CONDUCT SITE VISITS AND SHALL EXAMINE ALL OF THE INFORMATION WITHIN THESE DOCUMENTS: ALL DISCREPANCIES AND/OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID SUBMITTAL.
15. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
16. THE SITE SHALL BE LEFT CLEAN AFTER DEMOLITION WORK AND BE READY FOR FILLING AND COMPACTION OPERATIONS (FILL SHALL BE COMPACTED 12 INCH LIFTS).
17. PAVEMENT REMOVAL:
    A. WHERE EXISTING PAVEMENT IS TO BE REMOVED, SAW-CUT THE SURFACING LEAVING A UNIFORM AND STRAIGHT EDGE WITH MINIMUM DISTURBANCE TO THE REMAINING ADJACENT SURFACING. IF CONSTRUCTION RESULTS IN RAVELING OF THE SAW-CUT SURFACE, RECUT BACK FROM THE RAVELED EDGE PRIOR TO RESTORATION.
    B. WHERE EXISTING PAVEMENT, CURB, CURB AND GUTTER, SIDEWALK, DRIVEWAY, OR VALLEY GUTTER IS REMOVED FOR THE PURPOSE OF CONSTRUCTING OR REMOVING BOX CULVERTS, PIPE, INLETS, MANHOLES, APPURTENANCES, FACILITIES OR STRUCTURES, SAID PAVEMENT, ETC., SHALL BE REPLACED AND RESTORED IN EQUAL OR BETTER CONDITION THAN THE ORIGINAL, CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS, SUPPLIES, AND OTHER EQUIPMENT AS REQUIRED.
18. THE REMOVED FILL MAY CONTAIN UNSTABLE MATERIAL SUCH AS LARGE PIECES OF CONCRETE, ASPHALT, WOOD, ORGANICS, METAL AND OTHER DELETERIOUS MATERIALS. THESE MATERIALS ARE NOT SUITABLE FOR USE AS ENGINEERED FILL WITH THE EXCEPTION OF CONCRETE AND ASPHALT, IF PROCESSED TO AN ACCEPTABLE SIZE. IF ENCOUNTERED, THESE MATERIALS MUST BE SEGREGATED FROM THE REUSABLE MATERIAL.

CONTRACTOR SHALL COORDINATE SEQUENCING OF REMOVAL WITH UTILITY COMPANIES PRIOR TO COMMENCEMENT OF DEMOLITION.

EXISTING
FESTIVAL FLEA MARKET
TO REMAIN
381,762 S.F.
F.F.E.=12.94' N.A.V.D.



KEYNOTE LEGEND

1. SAW-CUT AND REMOVE APPROXIMATELY 200 LF EXISTING SIDEWALK, AND FDOT TYPE F CURB, WITHIN RIGHT OF WAY
2. REFER TO LANDSCAPE PLANS FOR TREES TO BE REMOVED, RELOCATED OR TO REMAIN
3. EXISTING ELECTRIC PANEL AND POLE TO REMAIN
4. EXISTING STORMWATER MANAGEMENT SYSTEM: STRUCTURES, ROOF DRAINERS, PIPES, ETC. TO BE REMOVED. CONTRACTOR SHALL COORDINATE SEQUENCING OF REMOVAL WITH EROSION CONTROL PLANS PRIOR TO COMMENCEMENT. CAP ANY EXISTING DRAINAGE PIPES AT PROPERTY LINE
5. EXISTING LIGHT FIXTURE TO BE REMOVED
6. EXISTING LIGHT FIXTURE TO REMAIN
7. EXISTING SANITARY SEWER MANHOLE TO REMAIN
8. EXISTING UTILITIES TO BE RELOCATED, RELOCATION SHALL BE COORDINATED WITH FDOT, AND POMPANO BEACH PUBLIC WORKS DEPT. PRIOR TO DEMOLITION
9. EXISTING FIRE HYDRANT TO BE REMOVED AND/OR RELOCATED
10. EXISTING FIRE HYDRANT TO REMAIN
11. EXISTING SIGN TO BE REMOVED
12. EXISTING PYLON SIGN TO REMAIN
13. EXISTING 40 MPH SPEED LIMIT SIGN (TO BE RELOCATED)
14. EXISTING 66 LF OF CONCRETE SIDEWALK TO BE REMOVED
15. EXISTING 154 LF OF STORM PIPE TO BE REMOVED

GENERAL NOTES

1. CONTRACTOR SHALL REFER TO THE ENVIROMENTAL ASSESSMENT DONE FOR THE SITE PRIOR TO DEMOLITION.
2. REFER TO LANDSCAPE PLAN FOR TREE REMOVAL.
3. THE CONTRACTOR SHALL PREPARE THE SITE FOR FILLING AND COMPACTION OPERATIONS PER THE GEO-TECHNICAL REPORT.
4. PER THE BROWARD COUNTY PUBLIC WORKS DEPT.:
   - ALL BACKFILL SHALL BE DEPOSITED AND COMPACTED IN 12 INCH LIFTS.
   - UTILITIES TO BE ABANDON IN PLACE ARE REQUIRED TO BE CAPPED AND AND FILLED WITH FLOWA-BLE FILL, EXCAVATION TO BE BACKFILLED IN 12" COMPACTED LIFTS.
   - BACKFILLING OF UNDERGROUND REMOVALS (SUCH AS STORM DRAINAGE STRUCTURES/PIPE & UTILITY LINES) WILL REQUIRE BACKFILLING IN 12" COMPACTED LIFTS.

DEMOLITION LEGEND

PROPERTY LINE

LIMITS OF EXISTING ONSITE PAVEMENT, CURB AND SIDEWALK TO BE TO BE SAW CUT AND REMOVED DOWN TO NATURAL SOIL (UNLESS OTHERWISE NOTED)

LIMITS OF EXISTING OFFSITE PAVEMENT, CURB, SIDEWALK, UTILITIES AND STORM WATER TO BE DEMOLISHED (UNLESS OTHERWISE NOTED)

CONTRACTOR TO VERIFY ALL UNDERGROUND STORMWATER CONNECTIONS PRIOR TO START OF DEMOLITION. PIPES TO BE REMOVED TO THE LIMIT OF DISTURBANCE. PIPES TO REMAIN IN PLACE BEYOND LIMITS OF DISTURBANCE AND PLUGGED WITH FLOWABLE FILL TO PREVENT LEAKAGE

666 N.E. 125th STREET,
SUITE 247
NORTH MIAMI, FL 33161
Phone: 305.720.2079
C.O.A. 33221

CHRISTOPHER PATRICK COLLINS, P.E. REG# 73819 — LICENSED PROFESSIONAL ENGINEER — No. 73819 — STATE OF FLORIDA

3/11/2024

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Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	1" = 40'
Date:	05/25/2022
Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE

2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

DEMOLITION PLAN

Sheet No.

C-5.0

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10/01/2025

DRC
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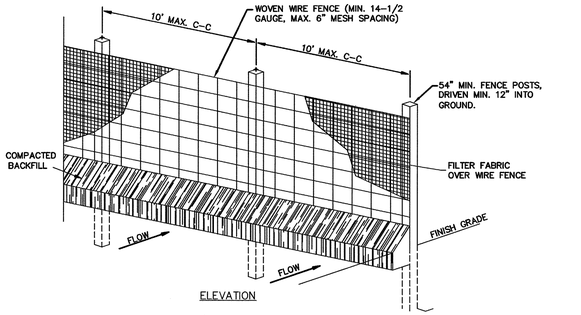
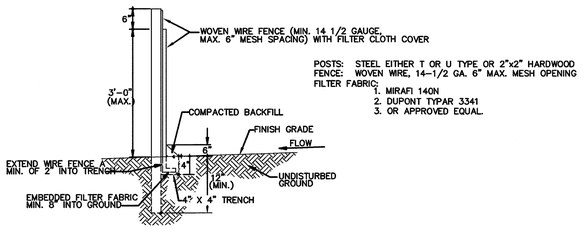
12/03/2025

B.C.H.C.E.D. REF. NO. 200617002



ELEVATION



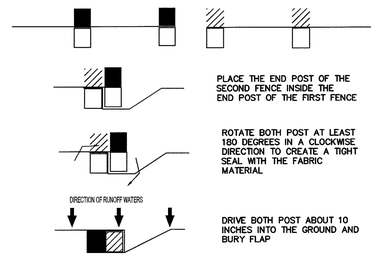
POSTS: STEEL EITHER T OR U TYPE OR 2"x2" HARDWOOD
FENCE: WOVEN WIRE, 14-1/2 GA. 6" MAX. MESH OPENING
FILTER FABRIC:
1. MIRAFI 140N
2. DUPONT TYPAR 3341
3. OR APPROVED EQUAL.

CROSS-SECTION

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN SEDIMENT ACCUMULATES TO HALF THE HEIGHT OF THE SILT FENCE.

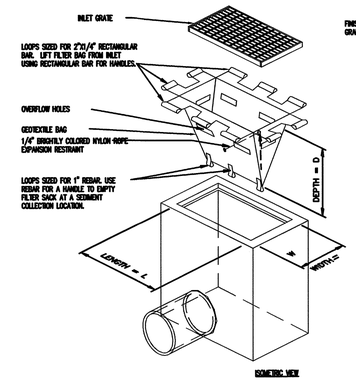
SEDIMENTATION/SILT FENCE WITH WIRE SUPPORT

N.T.S.

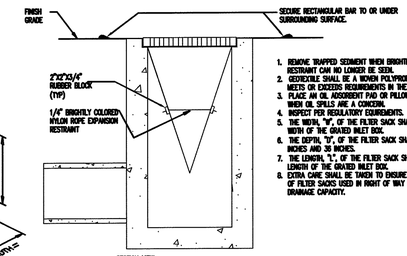


ATTACHING TWO SILT FENCES

N.T.S.



CAUTION: BAGGED INLET PROTECTION REQUIRES ADDITIONAL MAINTENANCE TO ENSURE THAT THE BMP FUNCTIONS PROPERLY AND DOES NOT CAUSE FLOODING.



1. REMOVE TRAPPED SEDIMENT WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.
2. GEOTEXTILE SHALL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
3. PLACE AN OIL ABSORBENT PAD OR PILLOW OVER INLET GRATE WHEN OIL SPILLS ARE A CONCERN.
4. INSPECT PER REGULATORY REQUIREMENTS.
5. THE WIDTH, "W", OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THE GRATED INLET BOX.
6. THE DEPTH, "D", OF THE FILTER SACK SHALL BE BETWEEN 18 INCHES AND 36 INCHES.
7. THE LENGTH, "L", OF THE FILTER SACK SHALL MATCH THE INSIDE LENGTH OF THE GRATED INLET BOX.
8. EXTRA CARE SHALL BE TAKEN TO ENSURE REGULAR MAINTENANCE OF FILTER SACKS USED IN RIGHT OF WAY TO ENSURE ADEQUATE DRAINAGE CAPACITY.

LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	200 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	30 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.05 SEC -1

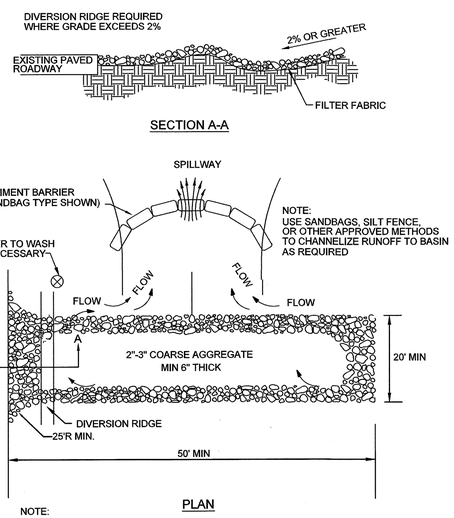
MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	30 %
PUNCTURE	ASTM D-4833	225 LBS
MULLEN BURST	ASTM D-3786	430 PSI
TRAPEZOID TEAR	ASTM D-4533	40 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

IP1

FILTER SACK GEOTEXTILE BAG INLET PROTECTION DETAIL

N.T.S.



PLAN

NOTE:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY CONSTRUCTION ACCESS DETAIL

N.T.S.

DRC
PZ22-12000027
10/01/2025

D E S I G N
666 N.E. 125th STREET,
SUITE 247
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Phone: 305.720.2079
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CHRISTOPHER PATRICK COLLINS LICENSE No. 73819 STATE OF FLORIDA PROFESSIONAL ENGINEER

CHRISTOPHER COLLINS, P.E.
REG.# 73819
3/11/2024

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Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE

2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

EROSION CONTROL DETAILS

Sheet No.

C-4.0

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DRC
PZ22-12000027
12/03/2025

NOTE:

CONTRACTOR IS REQUIRED TO INSPECT ALL EROSION CONTROL DEVICES DAILY AND AFTER EVERY STORM EVENT AND REPAIR AND/OR REPLACE AS NEEDED

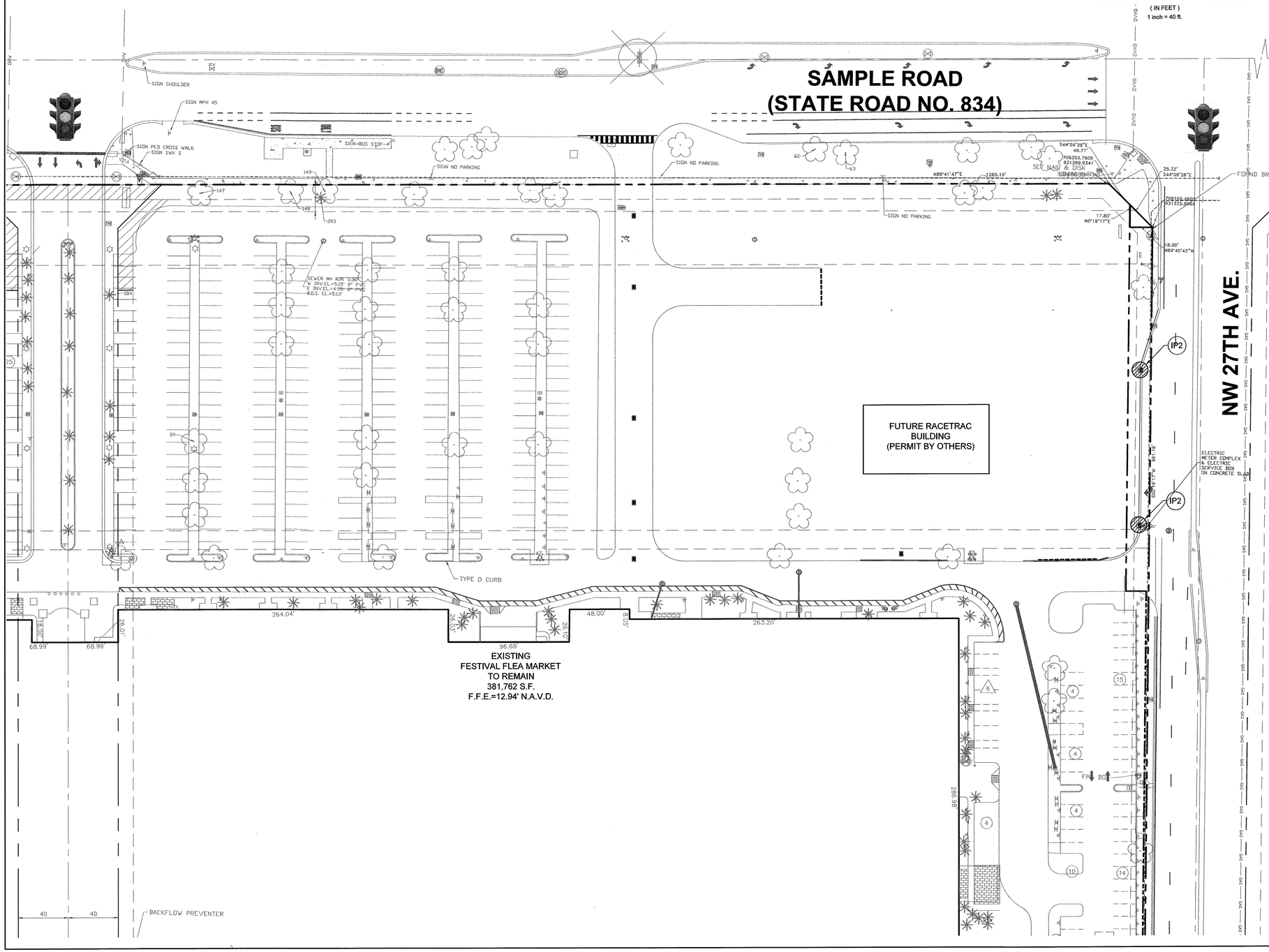
DRAINAGE SYMBOLS LEGEND

- PROPERTY LINE
- IP2 FILTER SACKS INLET PROTECTION
- PROPOSED INLET

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.



EROSION SEDIMENTATION CONTROL NOTES

MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO IMC PROPERTIES. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. THE EROSION CONTROL SYSTEM DESCRIBED WITHIN THE CONSTRUCTION DOCUMENTS SHOULD BE CONSIDERED TO REPRESENT THE MINIMUM ACCEPTABLE STANDARDS FOR THIS PROJECT. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDENT UPON THE STAGE OF CONSTRUCTION, THE SEVERITY OF THE RAINFALL EVENT AND/OR AS DEEMED NECESSARY AS A RESULT OF ON-SITE INSPECTIONS BY THE OWNER, THEIR REPRESENTATIVES OR THE JURISDICTIONAL AUTHORITIES. THESE ADDITIONAL MEASURES SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER. IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO ASSURE THAT THE STORM WATER DISCHARGE FROM THE SITE DOES NOT EXCEED THE TOLERANCES ESTABLISHED BY ANY OF THE JURISDICTIONAL AUTHORITIES. REFERENCE THE EROSION CONTROL PLAN AND DETAILS.

THIS PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, CHAPTER 17-25-FAC.

SITE

A. SITE CONDITIONS

1. SITE OPERATOR (CONTRACTOR) SHALL PREPARE A CONSTRUCTION SCHEDULE THAT INCLUDES THE DATE GRADING WILL BEGIN AND THE EXPECTED DATE OF STABILIZATION AND SHALL INCLUDE THE CONSTRUCTION SCHEDULE AS PART OF THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

B. SEQUENCE OF IMPLEMENTATION OF CONTROLS

1. INSTALLATION OF CONTROL MEASURES (CONSTRUCTION ENTRANCE, SILT FENCE, FILTER SACKS, GUTTER EEL) ETC.
2. DEMOLITION AND CLEARING, GRUBBING AND EXCAVATION.
3. CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE BUILDING, SITE DEVELOPMENT, AND INFRASTRUCTURE NECESSARY TO SERVE THE PROPOSED PROJECT.
4. FINAL STABILIZATION.

C. PHASING OF CONTROL MEASURES

1. PHASE 1- INITIAL PHASE
   THIS PHASE INCLUDES EROSION AND SEDIMENT CONTROL MEASURES REQUIRED BEFORE AND DURING DEMOLITION STAGE OF CONSTRUCTION.

   THIS PHASE INCLUDES
   - ESTABLISH STABILIZED CONSTRUCTION ENTRANCE.
   - INSTALLATION OF SILT FENCE.
   - INSTALL FILTER SACKS IN OFF-SITE INLET GRATES AND PLACE GUTTER EEL ON TOP OF GRATES.
   - INSTALL FILTER SACKS IN EXISTING ONSITE STORM INLETS DURING DEMOLITION.

2. PHASE 2- INTERMEDIATE PHASE
   THIS PHASE INCLUDES EROSION AND SEDIMENT CONTROL MEASURES REQUIRED DURING SITE GRADING FROM INITIAL GRADING THROUGH CURB AND GUTTER PHASE.

   THIS PHASE INCLUDES
   - INSTALLATION OF FILTER SACKS IN PROPOSED INLETS.
   - MAINTAIN ALL MEASURES IN PHASE 1

3. PHASE 3- FINAL PHASE
   THIS PHASE INCLUDES EROSION AND SEDIMENT CONTROL MEASURES REQUIRED DURING FINAL BUILDING CONSTRUCTION, PAVING, AND FINAL LANDSCAPE.

   THIS PHASE INCLUDES
   - REMOVAL OF GUTTER EELS FROM RIGHT OF VAY INLETS.
   - MAINTAIN REMAINING MEASURES FROM PHASES 1 AND 2.

CONTROLS

EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. THE EROSION CONTROL SYSTEM DESCRIBED WITHIN THE CONSTRUCTION DOCUMENTS SHOULD BE CONSIDERED TO REPRESENT THE MINIMUM ACCEPTABLE STANDARDS FOR THIS PROJECT. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDENT UPON THE STAGE OF CONSTRUCTION, THE SEVERITY OF THE RAINFALL EVENT AND/OR AS DEEMED NECESSARY AS A RESULT OF ON-SITE INSPECTIONS BY THE OWNER, THEIR REPRESENTATIVES, OR THE APPLICABLE JURISDICTIONAL AUTHORITIES. THESE ADDITIONAL MEASURES (IF NEEDED) SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER. IT IS NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BEST MANAGEMENT PRACTICES (BMPS). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN FDOT INDEXES #100 THROUGH #102 AND AS NECESSARY FOR EACH SPECIFIC APPLICATION. IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO ASSURE THAT THE STORMWATER DISCHARGE FROM THE SITE DOES NOT EXCEED THE TOLERANCES ESTABLISHED BY ANY OF THE APPLICABLE JURISDICTIONAL AUTHORITIES.

A. EROSION AND SEDIMENT CONTROLS

GENERAL EROSION CONTROL

A. CLEARING AND GRUBBING OPERATIONS SHALL BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND OFF-SITE SEDIMENTATION. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED PRIOR TO ANY CONSTRUCTION ACTIVITY.

B. EXCAVATED MATERIAL WILL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF, STOCKPILED MATERIAL SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES.

C. STABILIZATION MEASURES SHALL BE IMMEDIATELY INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS. CLEARED SITE DEVELOPMENT AREAS WHICH WILL REMAIN AT ROUGH GRADE FOR 7 DAYS OR MORE SHOULD BE STABILIZED IMMEDIATELY BY COVERING WITH ADEQUATE AMOUNTS OF HAY, OVER SEEDED AND PERIODICALLY WATERED SUFFICIENT TO STABILIZE THE TEMPORARY GROUNDCOVER, OR BY THE USE OF AN APPROPRIATE ALTERNATIVE BMP.

DESIGN
666 N.E. 125th STREET,
SUITE 247
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C.O.A. 33221

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Plans for

FESTIVAL MARKETPLACE

2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

EROSION CONTROL PLAN PHASE II OFFSITE

Sheet No.

C-3.2

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10/01/2025

B.C.H.C.E.D. REF. NO. 200617002

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NOTE:

CONTRACTOR IS REQUIRED TO INSPECT ALL EROSION CONTROL DEVICES DAILY AND AFTER EVERY STORM EVENT AND REPAIR AND/OR REPLACE AS NEEDED

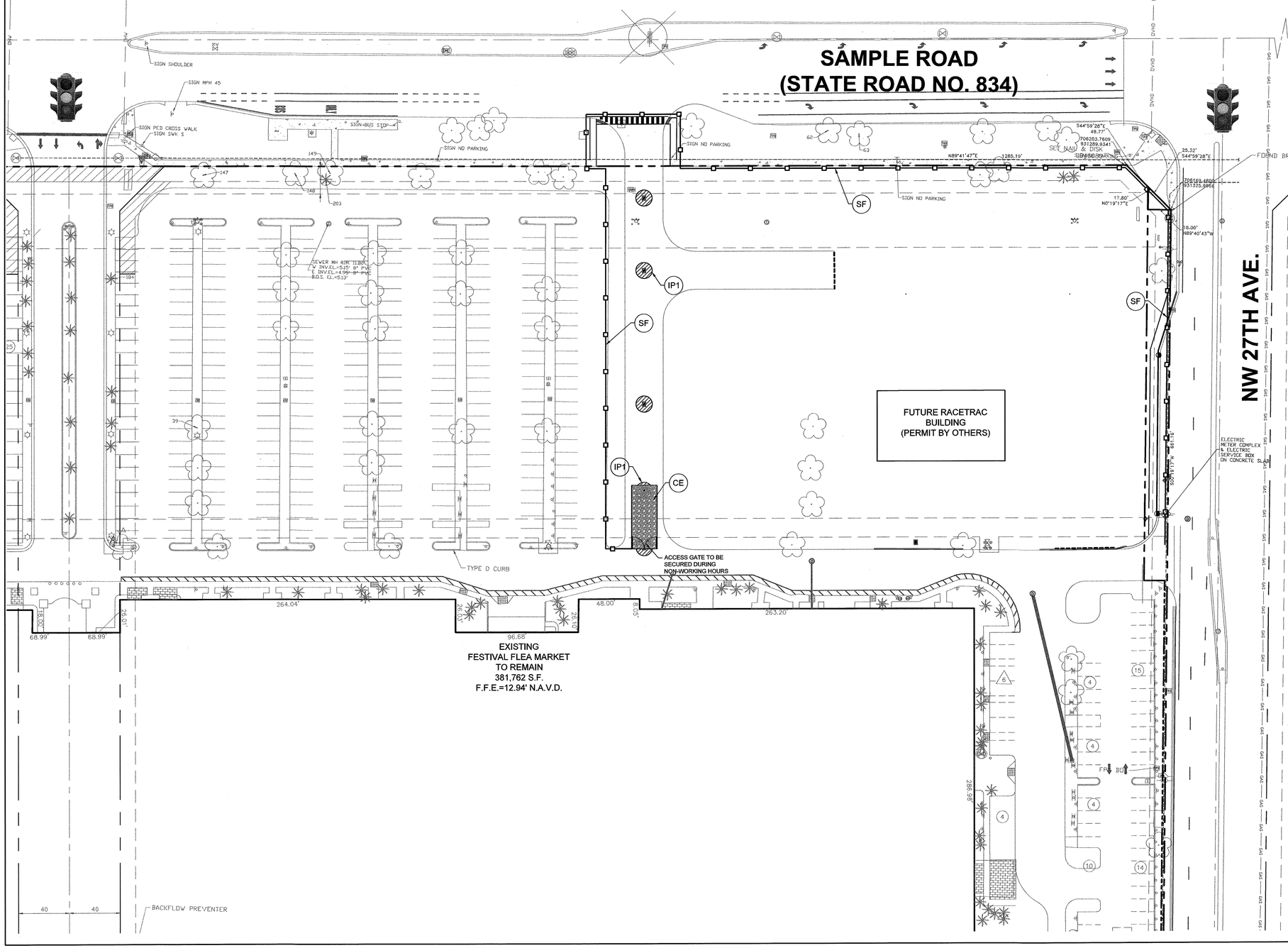
DRAINAGE SYMBOLS LEGEND

- PROPERTY LINE
- (CE) PROPOSED TEMPORARY CONSTRUCTION EXIT / ENTRANCE
- (SF) PROPOSED SILT FENCE
- (IP1) FILTER SACKS INLET PROTECTION
- PROPOSED INLET

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.



EROSION SEDIMENTATION CONTROL NOTES

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SITE

A. SITE CONDITIONS

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B. SEQUENCE OF IMPLEMENTATION OF CONTROLS

1. INSTALLATION OF CONTROL MEASURES (CONSTRUCTION ENTRANCE, SILT FENCE, FILTER SACKS, GUTTER EEL) ETC.
2. DEMOLITION AND CLEARING, GRUBBING AND EXCAVATION.
3. CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE BUILDING, SITE DEVELOPMENT, AND INFRASTRUCTURE NECESSARY TO SERVE THE PROPOSED PROJECT.
4. FINAL STABILIZATION.

C. PHASING OF CONTROL MEASURES

1. PHASE 1- INITIAL PHASE
   THIS PHASE INCLUDES EROSION AND SEDIMENT CONTROL MEASURES REQUIRED BEFORE AND DURING DEMOLITION STAGE OF CONSTRUCTION.

   THIS PHASE INCLUDES
   - ESTABLISH STABILIZED CONSTRUCTION ENTRANCE.
   - INSTALLATION OF SILT FENCE.
   - INSTALL FILTER SACKS IN OFF-SITE INLET GRATES AND PLACE GUTTER EEL ON TOP OF GRATES.
   - INSTALL FILTER SACKS IN EXISTING ONSITE STORM INLETS DURING DEMOLITION.

2. PHASE 2- INTERMEDIATE PHASE
   THIS PHASE INCLUDES EROSION AND SEDIMENT CONTROL MEASURES REQUIRED DURING SITE GRADING FROM INITIAL GRADING THROUGH CURB AND GUTTER PHASE.

   THIS PHASE INCLUDES
   - INSTALLATION OF FILTER SACKS IN PROPOSED INLETS.
   - MAINTAIN ALL MEASURES IN PHASE 1

3. PHASE 3- FINAL PHASE
   THIS PHASE INCLUDES EROSION AND SEDIMENT CONTROL MEASURES REQUIRED DURING FINAL BUILDING CONSTRUCTION, PAVING, AND FINAL LANDSCAPE.

   THIS PHASE INCLUDES
   - REMOVAL OF GUTTER EELS FROM RIGHT OF WAY INLETS.
   - MAINTAIN REMAINING MEASURES FROM PHASES 1 AND 2.

CONTROLS

EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. THE EROSION CONTROL SYSTEM DESCRIBED WITHIN THE CONSTRUCTION DOCUMENTS SHOULD BE CONSIDERED TO REPRESENT THE MINIMUM ACCEPTABLE STANDARDS FOR THIS PROJECT. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDENT UPON THE STAGE OF CONSTRUCTION, THE SEVERITY OF THE RAINFALL EVENT AND/OR AS DEEMED NECESSARY AS A RESULT OF ON-SITE INSPECTIONS BY THE OWNER, THEIR REPRESENTATIVES, OR THE APPLICABLE JURISDICTIONAL AUTHORITIES. THESE ADDITIONAL MEASURES (IF NEEDED) SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER. IT IS NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BEST MANAGEMENT PRACTICES (BMPS). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN FDOT INDEXES #100 THROUGH #102 AND AS NECESSARY FOR EACH SPECIFIC APPLICATION. IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO ASSURE THAT THE STORMWATER DISCHARGE FROM THE SITE DOES NOT EXCEED THE TOLERANCES ESTABLISHED BY ANY OF THE APPLICABLE JURISDICTIONAL AUTHORITIES.

A. EROSION AND SEDIMENT CONTROLS

GENERAL EROSION CONTROL

A. CLEARING AND GRUBBING OPERATIONS SHALL BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND OFF-SITE SEDIMENTATION. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED PRIOR TO ANY CONSTRUCTION ACTIVITY.

B. EXCAVATED MATERIAL WILL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF. STOCKPILED MATERIAL SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES.

C. STABILIZATION MEASURES SHALL BE IMMEDIATELY INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS. CLEARED SITE DEVELOPMENT AREAS WHICH WILL REMAIN AT ROUGH GRADE FOR 7 DAYS OR MORE SHOULD BE STABILIZED IMMEDIATELY BY COVERING WITH ADEQUATE AMOUNTS OF HAY, OVER SEEDED AND PERIODICALLY WATERED SUFFICIENT TO STABILIZE THE TEMPORARY GROUNDCOVER, OR BY THE USE OF AN APPROPRIATE ALTERNATIVE BMP.

DESIGN
666 N.E. 125th STREET,
SUITE 247
NORTH MIAMI, FL 33161
Phone: 305.720.2079
C.O.A. 33221

CHRISTOPHER PATRICK COLLINS LICENSE No. 73819 STATE OF FLORIDA PROFESSIONAL ENGINEER
CHRISTOPHER P. COLLINS, P.E.
REG# 73819
3/11/2024

This item has been digitally signed and sealed by Christopher P. Collins, P.E. on the date adjacent to the seal.

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Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	1" = 40'
Date:	05/25/2022
Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE

2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

EROSION CONTROL PLAN PHASE II

Sheet No.

C-3.1

Sunshine811
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Check positive response codes before you dig!

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10/01/2025

B.C.H.C.E.D. REF. NO. 200617002

DRC
PZ22-12000027
12/03/2025

NOTE:

CONTRACTOR IS REQUIRED TO INSPECT ALL EROSION CONTROL DEVICES DAILY AND AFTER EVERY STORM EVENT AND REPAIR AND/OR REPLACE AS NEEDED

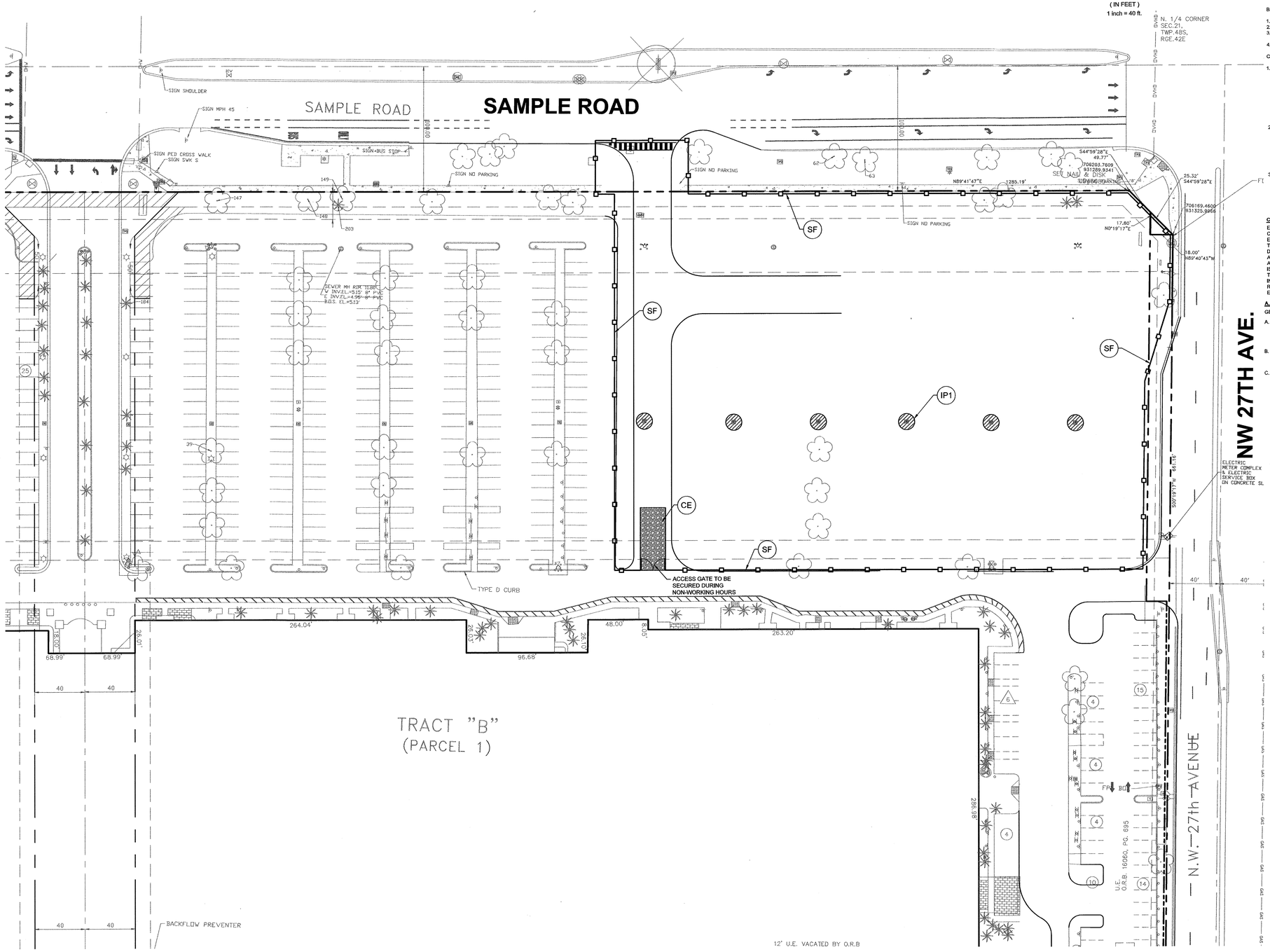
DRAINAGE SYMBOLS LEGEND

- PROPERTY LINE
- CE — PROPOSED TEMPORARY CONSTRUCTION EXIT / ENTRANCE
- SF — PROPOSED SILT FENCE
- IP1 — FILTER SACKS INLET PROTECTION
- EXISTING INLET

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.



EROSION SEDIMENTATION CONTROL NOTES

MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO IMC PROPERTIES. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. THE EROSION CONTROL SYSTEM DESCRIBED WITHIN THE CONSTRUCTION DOCUMENTS SHOULD BE CONSIDERED TO REPRESENT THE MINIMUM ACCEPTABLE STANDARDS FOR THIS PROJECT. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDENT UPON THE STAGE OF CONSTRUCTION, THE SEVERITY OF THE RAINFALL EVENT AND/OR AS DEEMED NECESSARY AS A RESULT OF ON-SITE INSPECTIONS BY THE OWNER, THEIR REPRESENTATIVES OR THE JURISDICTIONAL AUTHORITIES. THESE ADDITIONAL MEASURES SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER. IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO ASSURE THAT THE STORM WATER DISCHARGE FROM THE SITE DOES NOT EXCEED THE TOLERANCES ESTABLISHED BY ANY OF THE JURISDICTIONAL AUTHORITIES. REFERENCE THE EROSION CONTROL PLAN AND DETAILS.

THIS PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, CHAPTER 17-25-FAC.

SITE

A. SITE CONDITIONS

1. SITE OPERATOR (CONTRACTOR) SHALL PREPARE A CONSTRUCTION SCHEDULE THAT INCLUDES THE DATE GRADING WILL BEGIN AND THE EXPECTED DATE OF STABILIZATION AND SHALL INCLUDE THE CONSTRUCTION SCHEDULE AS PART OF THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

B. SEQUENCE OF IMPLEMENTATION OF CONTROLS

1. INSTALLATION OF CONTROL MEASURES (CONSTRUCTION ENTRANCE, SILT FENCE, FILTER SACKS, GUTTER EEL) ETC.
2. DEMOLITION AND CLEARING, GRUBBING AND EXCAVATION.
3. CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE BUILDING, SITE DEVELOPMENT, AND INFRASTRUCTURE NECESSARY TO SERVE THE PROPOSED PROJECT.
4. FINAL STABILIZATION.

C. PHASING OF CONTROL MEASURES

1. PHASE 1- INITIAL PHASE
   THIS PHASE INCLUDES EROSION AND SEDIMENT CONTROL MEASURES REQUIRED BEFORE AND DURING DEMOLITION STAGE OF CONSTRUCTION.

   THIS PHASE INCLUDES
   - ESTABLISH STABILIZED CONSTRUCTION ENTRANCE.
   - INSTALLATION OF SILT FENCE.
   - INSTALL FILTER SACKS IN OFF-SITE INLET GRATES AND PLACE GUTTER EEL ON TOP OF GRATES.
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C. STABILIZATION MEASURES SHALL BE IMMEDIATELY INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS. CLEARED SITE DEVELOPMENT AREAS WHICH WILL REMAIN AT ROUGH GRADE FOR 7 DAYS OR MORE SHOULD BE STABILIZED IMMEDIATELY BY COVERING WITH ADEQUATE AMOUNTS OF HAY, OVER SEEDED AND PERIODICALLY WATERED SUFFICIENT TO STABILIZE THE TEMPORARY GROUNDCOVER, OR BY THE USE OF AN APPROPRIATE ALTERNATIVE BMP.

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CHRISTOPHER PATRICK COLLINS ★ LICENSED ★ No. 73819 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

CHRISTOPHER P. COLLINS, P.E.
REG.# 73819

3/11/2024

This item has been digitally signed and sealed by Christopher P. Collins, P.E. on the date adjacent to the seal.

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Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	1" = 40'
Date:	05/25/2022
Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE

2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

EROSION CONTROL PLAN PHASE I

Sheet No.

C-3.0

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Check positive response codes before you dig!

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10/01/2025

DRC
PZ22-12000027
12/03/2025

B.C.H.C.E.D. REF. NO. 200617002

IX. WATER AND SEWER:

A. UTILITY SEPARATION REQUIREMENTS

1. THE HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER, STORM SEWER, WASTEWATER FORCE MAINS, STORMWATER FORCE MAINS, RECLAIMED WATER MAINS AND ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

a. THE OUTSIDE OF WATER MAINS SHALL BE A MINIMUM OF THREE FEET FROM THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, VACUUM TYPE SANITARY SEWER AND RECLAIMED WATER MAIN.

b. THE OUTSIDE OF WATER MAINS SHALL BE A MINIMUM OF SIX FEET FROM THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN THE OUTSIDE OF WATER MAINS AND THE OUTSIDE OF GRAVITY SANITARY SEWERS CAN BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

c. THE OUTSIDE OF WATER MAINS SHALL BE A MINIMUM OF TEN FEET FROM ALL PARTS OF ANY EXISTING OR PROPOSED ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES.

2. THE VERTICAL SEPARATION BETWEEN WATER MAINS AND SANITARY AND STORM SEWER, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER MAINS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

a. WHEREVER POSSIBLE, WATER MAINS SHALL CROSS OVER EXISTING OR PROPOSED GRAVITY SANITARY SEWER, VACUUM TYPE SANITARY SEWER, AND STORM SEWER, SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OUTSIDE OF THE SEWER. WHERE IT IS NOT POSSIBLE FOR THE WATER MAIN TO CROSS OVER EXISTING OR PROPOSED GRAVITY SANITARY SEWER, VACUUM TYPE SANITARY SEWER, AND STORM SEWER, THEN THE WATER MAIN CAN CROSS UNDER THESE TYPES OF PIPELINE SYSTEMS PROVIDED THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE PIPELINE. AT THE CROSSING, THE PROPOSED PIPE JOINTS SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM VACUUM TYPE SANITARY SEWER OR STORM SEWER JOINTS, AND AT LEAST SIX FEET FROM GRAVITY SANITARY SEWER JOINTS.

b. WHEREVER POSSIBLE, WATER MAINS SHALL CROSS OVER EXISTING OR PROPOSED RECLAIMED WATER MAINS, WASTEWATER FORCE MAINS AND STORMWATER FORCE MAINS. WHETHER THE WATER MAIN CROSSES OVER OR UNDER THESE TYPES OF PIPELINE SYSTEMS, THE OUTSIDE OF THE WATER MAIN SHALL BE AT LEAST 12 INCHES FROM THE OUTSIDE OF THE EXISTING OR PROPOSED RECLAIMED WATER MAIN, WASTEWATER FORCE MAIN AND STORMWATER FORCE MAIN. AT THE CROSSING, THE PROPOSED PIPE JOINTS SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM RECLAIMED WATER MAIN JOINTS AND STORMWATER FORCE MAIN JOINTS, AND AT LEAST SIX FEET FROM THE JOINTS OF WASTEWATER FORCE MAINS.

3. NO WATER MAIN SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE.

4. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SUCH THAT THE UNDERGROUND DRAIN (WEEP HOLE) IS AT LEAST:

a. THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER MAIN, OR VACUUM TYPE SANITARY SEWER.

b. SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN.

c. TEN FEET FROM ANY ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES.

5. THE FOLLOWING ARE ACCEPTABLE ALTERNATIVE CONSTRUCTION VARIANCES WHERE IT IS NOT POSSIBLE TO MEET THE SEPARATION REQUIREMENTS, AND ARE ONLY TO BE IMPLEMENTED UPON RECEIPT OF EXPRESSED WRITTEN CONSENT FROM THE ENGINEER. IMPLEMENTATION OF THESE MEASURES WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ENGINEER COULD RESULT IN THE REQUIREMENT THAT THE INSTALLED UNAPPROVED MEASURES BE REMOVED AND REPLACED AT NO COST.

a. WHERE A WATER MAIN IS LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND OR WHERE A WATER MAIN CROSSES ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE LESS THAN THE MINIMUM REQUIRED DISTANCE BETWEEN THE JOINTS IN THE OTHER PIPELINE:

- USE OF PRESSURE RATED PIPE CONFORMING TO AWWA STANDARDS FOR A GRAVITY OR VACUUM TYPE PIPELINE.
- USE OF WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER PIPELINE.
- USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER PIPE.

b. WHERE A WATER MAIN IS LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND OR WHERE A WATER MAIN CROSSES ANOTHER PIPELINE LESS THAN THE REQUIRED MINIMUM SEPARATION:

- USE OF PIPE OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (AT LEAST EQUAL TO 0.25 INCH THICK DUCTILE IRON PIPE), OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN AND FOR THE OTHER PIPELINE IF THE OTHER PIPELINE COVEYS WASTEWATER OR RECLAIMED WATER.

B. WATER AND RECLAIMED WATER DISTRIBUTION SYSTEMS

1. THE ENTITY THAT WILL OPERATE AND MAINTAIN THE WATER SYSTEMS SHOWN ON THESE PLANS IS BROWARD COUNTY WATER AND WASTEWATER ENGINEERING DIVISION. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF BROWARD COUNTY WATER AND WASTEWATER ENGINEERING DIVISION.

2. ALL WATER AND RECLAIMED MAIN PIPE SHALL BE EITHER DUCTILE IRON OR PVC, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

3. INSTALL ALL WATER AND RECLAIMED MAINS AT A MINIMUM 36 INCHES OF COVER.

4. BURIED DUCTILE IRON PIPE SHALL CONFORM WITH ANSI/AWWA C150/A21.50 AND C151/ A21.51, AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI. BURIED PIPE SHALL COMPLY WITH THE FOLLOWING PRESSURE CLASS (PC) DESIGNATIONS UNLESS OTHERWISE INDICATED ON THE DRAWINGS: A) 12" DIAMETER AND SMALLER =PC 350; B) 14" THROUGH 24" DIAMETER = PC 250; C) 30" THROUGH 64" DIAMETER = PC 200.

5. EXPOSED PIPE 4" AND LARGER SHALL BE DUCTILE IRON FLANGED AND SHALL CONFORM WITH AWWA/ANSI C115/A21.15, AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI. FLANGED PIPE SHALL COMPLY WITH THE FOLLOWING THICKNESS CLASS (TC) DESIGNATIONS UNLESS OTHERWISE INDICATED ON THE DRAWINGS: A) 4" DIAMETER = TC 54; B) 6" THROUGH 24" DIAMETER = TC 53

6. DUCTILE IRON PIPE AND FITTINGS WITHIN 10 FEET OF GAS MAINS SHALL HAVE AN 8-MIL POLYETHYLENE WRAP IN ACCORDANCE WITH ANSI/AWWA C105/A21.5.

7. PVC PIPE 4" - 12" SHALL CONFORM TO AWWA C900. PIPE 14" - 36" SHALL CONFORM TO AWWA C905. PIPE SHALL CONFORM TO ASTM D1784, TYPE I, GRADE I, 4000 PSI DESIGN STRESS, AND SHALL BE NATIONAL SANITATION FEDERATION (NSF) APPROVED. PIPE SHALL BE CLASS 150 (DR18) WITH MARKINGS ON EACH SECTION SHOWING CONFORMANCE TO THE ABOVE SPECIFICATIONS. JOINTS SHALL BE RUBBER GASKETED CONFORMING TO AWWA C900 OR C905 THE BELL SHALL BE INTEGRAL WITH THE PIPE AND OF EQUAL OR GREATER PRESSURE RATING. THE BELL OF PIPE AND FITTINGS USING PUSH-ON JOINTS SHALL HAVE AN INTEGRAL GROOVE TO RETAIN THE GASKET IN PLACE.

8. ALL FITTINGS SHALL BE MANUFACTURED OF DUCTILE IRON, CONFORMING TO ANSI/AWWA C110/A21.10 OR ANSI/AWWA C153/A21.53. ALL FULL BODY (C110/A21.10) FITTINGS SHALL BE PRESSURE RATED TO 250 PSI, MINIMUM. ALL COMPACT FITTINGS (C153/A21.53) SHALL BE PRESSURE RATED TO 350 PSI, MINIMUM.

9. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE LINED AND COATED. INTERIOR LINING SHALL BE STANDARD THICKNESS CEMENT MORTAR LINING PER ANSI/AWWA C104/A21.4. EXTERIOR COATING FOR BURIED PIPE AND FITTINGS SHALL BE A PETROLEUM ASPHALTIC COATING IN ACCORDANCE WITH ANSI/AWWA C110/A21.10. EXTERIOR COATING OF EXPOSED PIPE AND FITTINGS SHALL BE FACTORY APPLIED RUST INHIBITING EPOXY PRIMER, MINIMUM 3 MILS DRY FILM THICKNESS. AFTER INSTALLATION, EXTERIOR SURFACES SHALL BE PAINTED WITH TWO COATS TNEMEC SERIES 2 TNEME-GLOSS, GLIDDEN LIFE MASTER PRO HIGH PERFORMANCE ACRYLIC
A. 6900 SERIES, OR EQUAL, AT MINIMUM 4 MILS DRY FILM THICKNESS PER COAT. PAINT COLOR TO BE IN ACCORDANCE WITH LOCAL UTILITY REQUIREMENTS.

10. MECHANICAL AND PUSH ON JOINTS FOR DUCTILE IRON PIPE AND FITTINGS SHALL BE RUBBER GASKETED, CONFORMING TO ANSI/AWWA C111/A21.11. LUBRICANTS OTHER THAN THAT FURNISHED BY THE PIPE MANUFACTURER WITH THE PIPE SHALL NOT BE USED.

11. ALL FITTINGS SHALL BE RESTRAINED IN ACCORDANCE WITH DIPRA, "THRUST RESTRAINT DESIGNED FOR DUCTILE IRON PIPE". PIPE JOINTS SHALL BE RESTRAINED UPSTREAM AND DOWNSTREAM OF FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS OR THE TABLE SHOWN IN THE DRAWINGS, WHICHEVER IS GREATER. DUCTILE IRON RESTRAINED JOINTS SHALL BE AMERICAN FAST GRIP GASKET, FLEX-RING, FIELD FLEX RING, LOK-RING, US PIPE TR-FLEX, EBAA MEGALUG, OR EQUAL PVC PIPE JOINTS SHALL BE RESTRAINED USING MECHANICAL DEVICES, UNI-FLANGE BLOCK BUSTER SERIES 1350 OR ENGINEER APPROVED EQUAL.

12. ALL SERVICE PIPING (½" -3") SHALL BE POLYETHYLENE. SDR-PR PE PIPE SHALL BE MANUFACTURED FROM PE3408 AND SHALL CONFORM TO AWWA C901. ALL PIPE SHALL BE DR9, PRESSURE CLASS 200 PSI. PIPE AND FITTINGS SHALL BE NSF APPROVED FOR THE USAGE TO WHICH THEY ARE TO BE APPLIED. JOINTS IN SDR-PR PE PIPE SHALL BE BUTT HEAT FUSION OR SOCKET HEAT FUSION TYPE. FITTINGS SHALL BE MANUFACTURED OF THE SAME MATERIAL AS THE PIPE AND SHALL BE OF THE SAME SDR OR LESS. PROVIDE ADAPTERS AS REQUIRED TO JOIN PE PIPE TO PIPE, FITTINGS AND EQUIPMENT OF OTHER MATERIALS.

ALL SERVICE SADDLES SHALL CONSIST OF DUCTILE IRON BODIES IN ACCORDANCE WITH ASTM A536, WITH DOUBLE

14. ALL SERVICES SHALL INCLUDE THE FOLLOWING: CURB STOPS, UNIONS AS REQUIRED, CORPORATION STOPS. CONFORMANCE WITH AWWA C800 AND C901 IS REQUIRED. THE CONTRACTOR SHALL CUT "W" IN THE TOP CURB OF EACH WATER SERVICE AND A "V" AT ALL VALVE LOCATIONS. CUT W'S AND V'S SHALL BE HIGHLIGHTED WITH BLUE PAINT.

15. UNLESS OTHERWISE NOTED IN THE PLANS, THE UTILITY COMPANY SHALL PROVIDE AND INSTALL WATER METERS AND RECLAIMED WATER METERS. CONTRACTOR SHALL CONSTRUCT WATER SERVICE AND RECLAIMED WATER SERVICE TO THE CORPORATION STOP.

16. UNLESS OTHERWISE INDICATED OR SPECIFIED, ALL VALVES TWO INCHES AND SMALLER SHALL BE ALL BRASS OR BRONZE; VALVES OVER TWO INCHES SHALL BE IRON BODY, FULLY BRONZE OR BRONZE MOUNTED.

17. VALVES 4 INCHES AND LARGER SHALL BE LINED AND COATED. INTERIOR OF VALVES SHALL BE COATED WITH A RUST INHIBITING EPOXY PRIMER, FOLLOWED BY A COAL TAR EPOXY, TOTAL MINIMUM DRY FILM THICKNESS OF 16 MILS, APPLIED AT THE FACTORY. EXTERIOR COATING ON BURIED VALVES SHALL BE RUST INHIBITING EPOXY PRIMER, FOLLOWED BY A COAL TAR EPOXY, TOTAL MINIMUM DRY FILM THICKNESS OF 16 MILS, APPLIED AT THE FACTORY. EXTERIOR COATING OF EXPOSED VALVES SHALL BE FACTORY APPLIED RUST INHIBITING EPOXY PRIMER, MINIMUM 3 MILS DRY FILM THICKNESS. AFTER INSTALLATION, EXTERIOR SURFACES SHALL BE PAINTED WITH TWO COATS TNEMEC SERIES 2 TNEME-GLOSS, GLIDDEN LIFE MASTER PRO HIGH PERFORMANCE ACRYLIC NO. 6900 SERIES, OR EQUAL, AT 4 MILS MINIMUM DRY FILM THICKNESS PER COAT. PAINT COLOR TO BE IN ACCORDANCE WITH LOCAL UTILITY REQUIREMENTS.

18. ALL VALVES 12" AND SMALLER SHALL BE GATE VALVES UNLESS OTHERWISE INDICATED ON THE DRAWINGS. GATE VALVES 3 INCHES TO 12 INCHES SHALL CONFORM TO AWWA C509. THE VALVES SHALL BE IRON BODY, CAST IRON FULLY ENCAPSULATED MOLDED RUBBER WEDGE COMPLYING WITH ASTM D2000, NON-RISING STEM WITH O-RING SEALS. VALVES SHALL OPEN COUNTERCLOCKWISE.

19. TAPPING VALVES AND SLEEVES SHALL BE APPROVED AWWA TYPE OF THE SIZE REQUIRED. VALVES SHALL CONFORM TO THE REQUIREMENTS OF AWWA C509.

20. VALVES 14" AND LARGER SHALL BE BUTTERFLY VALVES. BUTTERFLY VALVES SHALL MEET OR EXCEED THE DESIGN STRENGTH, TESTING AND PERFORMANCE REQUIREMENTS OF AWWA C504, CLASS 150. VALVE BODY SHALL BE MECHANICAL JOINT END TYPE VALVE CONSTRUCTED OF CAST IRON OR DUCTILE IRON. DISC SHALL BE ONE PIECE CAST DESIGN WITH NO EXTERNAL RIBS TRANSVERSE TO FLOW. DISC SHALL BE CAST IRON OR DUCTILE IRON. THE RESILIENT SEAT SHALL MATE WITH A 304 OR 316 STAINLESS STEEL SURFACE.

21. VALVE SEATS SHALL BE MECHANICALLY RETAINED, AND MAY BE INSTALLED ON EITHER THE BODY OR DISC. O-RING SEATS ON VALVE DISCS ARE UNACCEPTABLE. SEATS FOR VALVES 14" DIAMETER AND LARGER SHALL BE FULLY FIELD REPLACEABLE WITHOUT THE USE OF SPECIAL TOOLS. OPERATORS OF THE ENCLOSED TRAVELING-NUT TYPE SHALL BE PROVIDED UNLESS OTHERWISE INDICATED.

22. ALL BURIED VALVES SHALL BE PROVIDED WITH ADJUSTABLE VALVE BOXES APPROXIMATELY 5 INCHES IN DIAMETER WITH A MINIMUM THICKNESS OF 3/16 INCH CAST EQUAL. BOXES SHALL BE OF SUFFICIENT LENGTH TO OPERATE ALL VALVES BURIED IN THE GROUND, CONSISTING OF BASE, CENTER SECTION, AND TOP SECTION WITH EQUAL. VALVE BOXES LOCATED IN UNPAVED AREAS SHALL BE SLIP TYPE DESIGN TO PERMIT MOVEMENT OF THE TOP SECTION WITHOUT TRANSMITTING FORCES ONTO THE VALVE BODY. VALVE BOXES CAST INTO CONCRETE OR ASPHALT SURFACING SHALL HAVE BRASS COVERS. ALL VALVE BOX COVERS SHALL BE INTERNALLY CHAINED TO VALVE BOXES WITH AN APPROXIMATELY 18 INCH GALVANIZED CHAIN. VALVE BOX COVERS SHALL BE CAST WITH THE INSCRIPTION "WATER" OR "RECLAIMED WATER".

23. PVC PIPE SHALL BE COLOR CODED BLUE (WATER MAINS) OR PURPLE (RECLAIMED WATER MAINS), STENCILED "WATER LINE" OR "RECLAIMED WATER LINE", AS APPLICABLE, (2" LETTERING ON TWO SIDES OF THE PIPE IN AT LEAST THREE AREAS PER PIPE SECTION).

24. INSTALL IDENTIFICATION TAPE ALONG ALL DUCTILE IRON PIPE AND PVC PIPE, MINIMUM THICKNESS 4 MILS, WIDTH 6 INCHES, LETTER SIZE 1 INCH. APPLY TAPE TO SURFACE OF PIPE, CONTINUOUSLY EXTENDING FROM JOINT TO JOINT. TAPE COLOR AND LETTERING SHALL BE BLACK PRINTING ON BLUE BACKGROUND (WATER MAINS), BLACK PRINTING ON PURPLE BACKGROUND (RECLAIMED WATER MAINS). PLACE TAPE AS FOLLOWS: 2" - 8" PIPE - CENTER ALONG TOP HALF OF PIPE; 10" - 18" PIPE - PLACE ALONG BOTH SIDES OF THE TOP HALF OF PIPE; 20" PIPE AND LARGER - PLACE ON BOTH SIDES OF TOP HALF OF PIPE WITH A THIRD STRIP CENTERED ALONG TOP HALF OF PIPE.

25. INSTALL WARNING TAPE ALONG ALL PIPELINES, PLACED 2 FEET ABOVE PIPE. TAPE SHALL BE 6-INCH WIDE VINYL CONTINUOUS TAPE. TAPE SHALL BE COLORED BLUE (WATER MAINS) OR PURPLE (RECLAIMED WATER MAINS) WITH BLACK LETTERING, CODED AND WORDED "CAUTION: WATER MAIN BURIED BELOW", OR "CAUTION: RECLAIMED WATER MAIN BURIED BELOW", APPLICABLE.

26. INSTALL LOCATING WIRE ALONG ALL PVC PIPELINES. WIRE SHALL BE COLOR-CODED 14 GAUGE CONTINUOUS INSULATED WIRE. COLOR CODING SHALL BE SIMILAR TO WARNING TAPE COLORS. INSTALL LOCATOR WIRE ALONG ALL PRESSURIZED PIPELINES 2" AND LARGER. LOOP WIRE INTO ALL VALVE BOXES. LOOPING TO OCCUR EVERY 500 FEET MINIMUM. WHERE THERE ARE NO VALVE BOXES TO ALLOW LOOPING, PROVIDE ACCESS BOXES PER CITY REQUIREMENTS. CHECK WIRE FOR ELECTRICAL CONTINUITY.

27. ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS OR APPROVED JOINT DEFLECTION. BENDING OF PIPE, EXCEPT COPPER AND POLYETHYLENE, IS PROHIBITED. JOINT DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION.

28. TEST PROCEDURES SHALL BE APPROVED BY THE ENGINEER. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER AND UTILITY. NOTIFY THE ENGINEER AND THE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY WORK IS TO BE INSPECTED OR TESTED.

29. PROVIDE ALL EQUIPMENT FOR TESTING. INCREMENTS ON GAGES USED FOR LOW PRESSURE AIR TESTING SHALL BE OF SCALED TO THE NEAREST 0.1 PSI. GAGES, PUMPS, AND HOSES SHALL BE IN GOOD WORKING ORDER WITH NO NOTICEABLE LEAKS.

30. ALL SERVICE LINES SHALL BE COMPLETED PRIOR TO TESTING, AND ARE SUBJECT TO THE SAME TESTING REQUIREMENTS AS THE MAIN LINE.

31. APPLY HYDROSTATIC TEST PRESSURE OF 150 PSI (WATER MAINS), 200 PSI (FIRE MAINS), OR 100 PSI (RECLAIMED WATER MAINS) FOR 10 MINUTES AND FOR SUCH ADDITIONAL PERIOD NECESSARY FOR THE ENGINEER TO COMPLETE THE INSPECTION OF THE LINE UNDER TEST. DO NOT EXCEED PIPE MANUFACTURER'S SUGGESTED TIME DURATION AT THE TEST PRESSURE. IF DEFECTS ARE NOTED, REPAIRS SHALL BE MADE AND THE TEST REPEATED UNTIL ALL PARTS OF THE LINE WITHSTAND THE TEST PRESSURE.

32. APPLY LEAKAGE TEST PRESSURE OF 150 PSI (WATER MAINS), 200 PSI (FIRE MAINS) OR 100 PSI (RECLAIMED WATER MAINS). MAINTAIN PRESSURE AT A MAXIMUM VARIATION OF 5% DURING THE ENTIRE LEAKAGE TEST. THE DURATION OF THE LEAKAGE TEST SHALL BE TWO HOURS MINIMUM, AND FOR SUCH ADDITIONAL TIME NECESSARY FOR THE ENGINEER TO COMPLETE INSPECTION OF THE SECTION OF LINE UNDER TEST. LEAKAGE MEASUREMENTS SHALL NOT BE STARTED UNTIL A CONSTANT TEST PRESSURE HAS BEEN ESTABLISHED. THE LINE LEAKAGE SHALL BE MEASURED BY MEANS OF A WATER METER INSTALLED ON THE SUPPLY SIDE OF THE PRESSURE PUMP.

33. NO LEAKAGE IS ALLOWED IN EXPOSED PIPING, BURIED PIPING WITH FLANGED, THREADED, OR WELDED JOINTS OR BURIED NON-POTABLE PIPING IN CONFLICT WITH POTABLE WATER LINES.

34. TESTED SECTIONS OF BURIED PIPING WITH SLIP-TYPE OR MECHANICAL JOINTS WILL NOT BE ACCEPTED IF IT HAS A LEAKAGE RATE IN EXCESS OF THAT RATE DETERMINED BY THE FORMULA L = SDP/133200 (AWWA C-600 DUCTILE IRON MAINS), OR L = NDP/7400 (AWWAC-605 - PVC MAIN); WHERE L = MAXIMUM PERMISSIBLE LEAKAGE RATE, IN GALLONS PER HOUR, THROUGHOUT THE ENTIRE LENGTH OF LINE BEING TESTED; S = LENGTH OF LINE TESTED (IN FEET); D = NOMINAL INTERNAL DIAMETER (IN INCHES) OF THE PIPE; N = NUMBER OF JOINTS ALONG LINE BEING TESTED; AND P = THE SQUARE ROOT OF THE ACTUAL PRESSURE IN PSIG ON ALL JOINTS IN THE TESTED PORTION OF THE LINE. THIS ACTUAL PRESSURE SHALL BE DETERMINED BY FINDING THE DIFFERENCE BETWEEN THE AVERAGE ELEVATION OF ALL TESTED PIPE JOINTS AND THE ELEVATION OF THE PRESSURE GAUGE AND ADDING THE DIFFERENCE IN ELEVATION HEAD TO THE AUTHORIZED TEST PRESSURE.

35. ALL APPARENT LEAKS DISCOVERED WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER SHALL BE LOCATED AND REPAIRED BY CONTRACTOR, REGARDLESS OF THE TOTAL LINE LEAKAGE RATE.

36. DISINFECT ALL POTABLE WATER LINES, FIRE LINES, VALVES, FITTINGS, HYDRANTS.

37. ALL DISINFECTION WORK SHALL BE ACCEPTABLE TO THE STATE HEALTH AUTHORITY. IF ANY REQUIREMENTS OF THIS SECTION ARE IN CONFLICT WITH REQUIREMENTS OF THE AUTHORITY FOR DISINFECTION, THOSE OF THE AUTHORITY SHALL GOVERN. THE WATER MAIN DISINFECTION AND BACTERIOLOGICAL SAMPLING AND METHODS OF DISINFECTION FOR ALL WATER CONTAINMENT DEVICES AND PIPING SYSTEMS SHALL CONFORM TO AWWA C651.

C. FIRE PROTECTION SYSTEMS

1. COMBUSTIBLE CONSTRUCTION CANNOT OCCUR UNTIL PROPER DOCUMENTATION HAS BEEN SUBMITTED TO THE LOCAL FIRE MARSHAL. DOCUMENTATION SHALL SHOW THAT HYDRANTS HAVE BEEN INSTALLED, TESTED, AND ARE IN PROPER WORKING ORDER.

2. INSTALL ALL FIRE LINE PIPING AT A MINIMUM 36 INCHES OF COVER.

3. ALL FIRE LINE PIPING FROM POINT OF SERVICE AS DEFINED BY FS 633.021(16) SHALL BE C900 DR 14. THE FIRE LINE SHALL BE PRESSURE TESTED TO 200 PSI FOR A MINIMUM OF TWO HOURS, TESTED IN ACCORDANCE WITH NFPA 24-9-2.

4. THE CONTRACTOR INSTALLING THE UNDERGROUND FIRE PROTECTION PIPING SHALL HOLD A CLASS I, II, OR LEVEL V CERTIFICATION AS ISSUED BY THE STATE OF FLORIDA, AS REQUIRED BY FS 633.021(5).

5. ALL FIRE PROTECTION SPRINKLER SYSTEMS INSTALLED SHALL COMPLY WITH NFPA 13, AND SHALL BE MONITORED BY A COMPANY LISTED AS A CENTRAL STATION.

6. HYDRANTS SHALL CONFORM TO AWWA C502 AND SHALL BE FURNISHED COMPLETE WITH WRENCH AND OTHER APPURTENANCES. MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH AWWA C502 AND TESTS LISTED THEREIN WILL BE REQUIRED.

7. ALL HYDRANTS SHALL BE OF BREAKABLE TYPE, WITH THE BREAKABLE SECTION LOCATED SLIGHTLY ABOVE THE FINISH GROUND LINE. HYDRANTS SHALL CONTAIN TWO-TWO AND A HALF INCH (2-1/2") HOSE CONNECTIONS AND ONE-FOUR AND A HALF INCH (4-1/2") STEAMER CONNECTIONS WITH NATIONAL STANDARD FIRE HOSE COUPLING SCREW THREADS, FIVE AND ONE QUARTER INCH (5-1/4") VALVE OPENING, SIX INCH (6") DIAMETER MECHANICAL JOINT INLET, ONE AND ONE-HALF INCH (1-1/2") PENTAGON OPERATING NUT. THE HYDRANTS SHALL OPEN COUNTERCLOCKWISE.

8. ALL HYDRANTS SHALL BE PAINTED IN AN APPROVED MANNER WITH THE PRIMER PAINT BEING KOPPER'S "GLAMORTEX" NO. 622 RUST PRIMER AND THE FINISH PAINT SHALL BE TWO COATS OF ENAMEL OR SPECIAL COATING TO COLOR AS REQUIRED BY THE LOCAL FIRE DEPARTMENT.

9. BLUE PAVEMENT REFLECTORS (CAT EYES) SHALL BE PLACED IN THE CENTERLINE OF THE DRIVING LANE DIRECTLY IN FRONT OF ALL FIRE HYDRANTS. THERE SHALL BE NO TREES, SHRUBS, OR LANDSCAPING PLANTED AROUND THE FIRE HYDRANTS OR IN AREAS DESIGNATED AS FIRE LANES.

10. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SUCH THAT THE UNDERGROUND DRAIN (WEEP HOLE) IS AT LEAST: THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER MAIN, OR VACUUM TYPE SANITARY SEWER; SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN; AND TEN FEET FROM ANY ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES.

11. THE CONTRACTOR SHALL PROVIDE A POST-CONSTRUCTION FIRE FLOW TEST WITNESSED AND APPROVED BY THE ENGINEER AND THE UTILITY. HYDRANTS SHALL DELIVER A MINIMUM OF 1250 GPM WITH A RESIDUAL PRESSURE OF 20 PSI.

D. SANITARY SEWER SYSTEMS

THE ENTITY THAT WILL OPERATE AND MAINTAIN THE SEWER SYSTEM SHOWN ON THESE PLANS IS BROWARD COUNTY WATER AND WASTEWATER ENGINEERING DIVISION. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF BROWARD COUNTY WATER AND WASTEWATER ENGINEERING DIVISION.

1. PVC SEWER PIPE SHALL BE TYPE PSM PVC PIPE CONFORMING TO ASTM D3034 AND SHALL BE SDR 35 FOR 4" THROUGH 15", AND ASTM F 679, WALL THICKNESS T-1, FOR PIPE 18" THROUGH 27".

2. INSTALL ALL SEWER MAINS AT A MINIMUM 36 INCHES OF COVER.

3. JOINTS SHALL MEET THE REQUIREMENTS OF ASTM D3212 USING RUBBER GASKETS CONFORMING TO ASTM F477.

4. FITTINGS SHALL CONFORM TO THE SAME REQUIREMENTS AS THE PIPE. PROVIDE ADAPTERS AS REQUIRED TO JOIN PVC PIPE TO PIPE, FITTINGS AND EQUIPMENT OF OTHER MATERIALS. SOLVENT CEMENT SHALL BE AS RECOMMENDED BY THE PIPE MANUFACTURER.

5. PVC SEWER PIPE SHALL BE COLOR CODED GREEN, STENCILED "SEWER LINE" (2" LETTERING ON TWO SIDES OF THE PIPE IN AT LEAST THREE AREAS PER PIPE SECTION).

6. INSTALL ADHESIVE IDENTIFICATION TAPE ALONG PIPELINE. TAPE SHALL BE MINIMUM THICKNESS 4 MILS, WIDTH 6 INCHES, LETTER SIZE 1 INCH. TAPE COLOR AND LETTERING SHALL BE "SEWER LINE", BLACK PRINTING ON GREEN BACKGROUND. PLACE TAPE AS FOLLOWS: 2" - 8" PIPE - CENTER ALONG TOP HALF OF PIPE; 10" - 18" PIPE - PLACE ALONG BOTH SIDES OF THE TOP HALF OF PIPE; 20" PIPE AND LARGER - PLACE ON BOTH SIDES OF TOP HALF OF PIPE WITH A THIRD STRIP CENTERED ALONG TOP HALF OF PIPE.

7. INSTALL WARNING TAPE ALONG ALL SEWER PIPELINES. TAPE SHALL BE 6-INCH WIDE VINYL CONTINUOUS TAPE, COLORED GREEN WITH BLACK LETTERING CODED AND WORDED "CAUTION: SEWER BURIED BELOW". INSTALL ALONG PIPELINE, 2 FEET ABOVE PIPE, MINIMUM OF 1 FOOT BELOW GRADE.

8. CONNECTIONS TO EXISTING SEWER SHALL BE CONDUCTED IN SUCH A MANNER THAT THE EXISTING SEWER REMAINS IN OPERATION. PROVIDE BY PASS PUMPING OF EXISTING FLOWS OR COLLECT AND LEGALLY DISPOSE OF EXISTING SEWER FLOW AS NEEDED TO ACCOMMODATE CONSTRUCTION WHILE KEEPING EXISTING SEWER IN SERVICE.

9. PRIOR TO INSPECTIONS AND TESTING, CLEAN ALL INSTALLED LINES AND MANHOLES. TEST PROCEDURES SHALL BE APPROVED BY THE ENGINEER. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER AND UTILITY. NOTIFY THE ENGINEER AND THE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY WORK IS TO BE INSPECTED OR TESTED.

10. PROVIDE ALL EQUIPMENT FOR TESTING. INCREMENTS ON GAGES USED FOR LOW PRESSURE AIR TESTING SHALL BE OF SCALED TO THE NEAREST 0.1 PSI. GAGES, PUMPS, AND HOSES SHALL BE IN GOOD WORKING ORDER WITH NO NOTICEABLE LEAKS.

11. ALL SERVICE LATERALS SHALL BE COMPLETED PRIOR TO TESTING, AND ARE SUBJECT TO THE SAME TESTING REQUIREMENTS AS THE MAIN LINE.

12. PROVIDE LIGHT SOURCE AND MIRRORS FOR LAMPING OF SEWER. ANY SEWER IN WHICH THE DIRECT LIGHT OF A LAMP CANNOT BE VIEWED IN EITHER DIRECTION, FULL CIRCLE, BETWEEN ADJACENT MANHOLES SHALL BE CONSIDERED UNSATISFACTORY, UNLESS THE LINE IS DESIGNED WITH HORIZONTAL DEFLECTIONS, AND SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT ADDITIONAL COMPENSATION.

13. CONDUCT LOW PRESSURE AIR TESTING (4.0 PSI INITIAL PRESSURE) OF INSTALLED SEWER PIPING IN ACCORDANCE WITH ASTM F1417. MAXIMUM ALLOWABLE LEAKAGE IS 0.0015 CUBIC FEET PER MINUTE PER SQUARE FOOT INTERNAL SURFACE AREA BEING TESTED. ALLOWABLE AIR PRESSURE DROP DURING THE TEST IS 0.5 PSIG. MINIMUM REQUIRED TEST TIME (DURATION) IS: A) 4" PIPE = 1 MIN 53 SEC; B) 6" PIPE = 2 MIN 50 SEC, OR 0.427 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER; C) 8" PIPE = 3 MIN 47 SEC, OR 0.760 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER; D) 10" PIPE = 4 MIN 43 SEC, OR 1.187 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER; E) 12" PIPE = 5 MIN 40 SEC, OR 1.709 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER.

14. CONDUCT LEAKAGE TESTING OF MANHOLES. PLUG INVERTS AND FILL MANHOLE WITH WATER. ALLOWABLE WATER DROP IN MANHOLE TO BE FIELD DETERMINED BY UTILITY AND ENGINEER. MINIMUM TEST DURATION IS 1 HOUR.

15. CONDUCT DEFLECTION TESTING OF PIPELINE AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. MAXIMUM ALLOWABLE PIPE DEFLECTION IS 5%. MEASURE DEFLECTION BY MANUALLY PULLING A MANDREL THROUGH THE PIPE. THE MINIMUM MANDREL OUTER DIAMETER SHALL BE IN ACCORDANCE WITH THE FOLLOWING: 6" SEWER = 5.45" MANDREL; 8" SEWER = 7.28" MANDREL; 10" SEWER = 9.08" MANDREL; 12" SEWER = 10.79" MANDREL; 15" SEWER = 13.20" MANDREL; 18" SEWER = 16.13" MANDREL; 21" SEWER = 19.00" MANDREL; 24" SEWER = 21.36" MANDREL; 27" SEWER = 24.06" MANDREL.

16. DEFLECTION TESTING IS CONSIDERED SATISFACTORY IF THE MANDREL CAN BE PULLED BY HAND THROUGH THE PIPE BEING TESTED. IF THE MANDREL CANNOT BE PULLED THROUGH THE PIPE, REPLACE OR CORRECT THE PIPE AND RETEST UNTIL TESTING IS SATISFACTORY. ANY PIPE REMOVED OR CORRECTED DUE TO FAILING DEFLECTION TESTING SHALL ALSO BE RE-TESTED FOR LEAKAGE.

E. PRECAST STRUCTURES AND APPURTENANCES

1. ALL MANHOLES SHALL BE PRECAST CONSTRUCTION. THE MINIMUM SIZE DIAMETER OF MANHOLES SHALL BE 48" FOR SEWER LINES 21" IN DIAMETER OR LESS. INTEGRALLY CAST STEPS WITHIN PRECAST STRUCTURES ARE NOT ALLOWED.

2. BASES SHALL BE ONE-PIECE PRECAST BASE SECTIONS CONSISTING OF INTEGRALLY CAST SLAB, BOTTOM RING SECTION AND CONCRETE FLOW CHANNELS. BASE SECTIONS SHALL HAVE INTEGRAL INVERTS WITH GASKETS TO MATCH THE PIPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL INVERT ANGLES. PROVIDE OUTLET STUBS WITH JOINTS TO MATCH THE PIPE.

3. RISERS SHALL BE PRECAST REINFORCED CONCRETE PER ASTM C478, MANUFACTURED USING SULFATE RESISTANT CEMENT (ASTM C150, TYPE II). RISERS SHALL BE 48-INCH DIAMETER UNLESS OTHERWISE INDICATED AND SHALL HAVE A MINIMUM WALL THICKNESS OF 5 INCHES.

4. GASKETS FOR SEATING PRECAST SECTIONS SHALL BE COLD ADHESIVE PREFORMED PLASTIC GASKETS CONFORMING TO FDOT SPECIFICATION 942-2, UNLESS OTHERWISE INDICATED.

5. UNLESS OTHERWISE INDICATED, CONE TOP SECTIONS SHALL BE PRECAST, ECCENTRIC TYPE WITH 24-INCH DIAMETER TOP OPENING CONFORMING TO ASTM C478. PROVIDE 8-INCH MINIMUM THICKNESS FLAT SLAB TOPS WITH ECCENTRIC 24 INCH DIAMETER OPENING, UNLESS OTHERWISE INDICATED.

6. PROVIDE A FLEXIBLE WATERTIGHT SEAL OF THE PIPE TO THE MANHOLE. CONNECTION OF CONCRETE PIPE TO THE MANHOLE SHALL BE MADE WITH NON-SHRINK METALLIC GROUT. CONNECTION OF DUCTILE IRON OR PVC PIPE TO THE MANHOLE SHALL PROVIDE A WATERTIGHT CONNECTION PER ASTM C923. WHERE CONNECTORS ARE USED, THEY SHALL BE INSTALLED IN THE MANHOLE WALL BY ACTIVATING THE EXPANDING MECHANISM IN STRICT ACCORDANCE WITH THE RECOMMENDATION OF THE CONNECTOR MANUFACTURER. THE USE OF ADHESIVES OR LUBRICANTS FOR INSTALLATION OF RUBBER CONNECTORS IS PROHIBITED.

7. FRAMES AND COVERS SHALL BE GREY IRON PER ASTM A48, CLASS 30B AND SHALL BE US FOUNDRY TYPE 227AS, TRAFFIC BEARING (AASHTO H-20 LOADING), UNLESS OTHERWISE NOTED IN THE DRAWINGS. CASTINGS SHALL BE SMOOTH, CLEAN, FREE FROM BLISTERS, BLOWHOLES, AND SHRINKAGE. RAISED LETTERING ON COVERS SHALL BE "STORM", "SEWER", OR AS DETAILED ON THE DRAWINGS.

8. PROVIDE CAST IRON INLETS, FRAMES, AND GRATES IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. ALL FRAMES AND INLET GRATES SHALL BE PRODUCTS OF U.S. FOUNDRY & MANUFACTURING CORPORATION, OR EQUAL.

9. ALL INLET GRATES SHALL BE SECURED BY CHAIN AND EYEBOLT TO THE TOP OF THE STRUCTURE.

10. MANHOLE COATINGS AND FINISHES SHALL BE:

D. SANITARY SEWER MANHOLE INTERIOR - BITUMINOUS EPOXY COATING, MINIMUM DRY FILM THICKNESS = 16 MILS.

E. INTERIOR OF MANHOLES WHICH RECEIVE FORCE MAIN DISCHARGE - INTEGRALLY ATTACHED INTERIOR LINER, FULL HEIGHT, FIBERGLASS LINER. LINER THICKNESS TO BE IN ACCORDANCE WITH THE DRAWINGS.

F. EXTERIOR - BITUMINOUS EPOXY COATING, MINIMUM DRY FILM THICKNESS = 16 MILS.

11. AS-BUILT INFORMATION SHALL INCLUDE ALL RIM, TOP AND INVERT ELEVATIONS FOR ALL PRECAST STRUCTURES.

X. SIGNS AND PAVEMENT MARKINGS:

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST IMPLEMENTED EDITION OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS AND BROWARD COUNTY TRAFFIC ENGINEERING DIVISION CURRENT STANDARDS. ALL MARKINGS SHALL CONFORM TO THE FOLLOWING: 6" EDGE LINES, 6" LANE LINES, 6" SINGLE CENTERLINES, AND 6" DOUBLE LINE PATTERNS, UNLESS OTHERWISE NOTED ON THE PLANS.

2. ALL R/W PAVEMENT MARKINGS SHALL CONFORM TO BROWARD COUNTY TRAFFIC ENGINEERING DEPARTMENT STANDARDS

3. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITH RAISED PAVEMENT MARKERS (TYPE 911 - 4" x 4"). RAISED PAVEMENT MARKERS ARE TO BE INSTALLED IN ACCORDANCE WITH THESE PLANS AND FDOT INDEX NO. 17352.

4. PARKING STALL PAVEMENT MARKINGS SHALL BE PAINTED. PAINT SHALL MEET THE REQUIREMENTS OF FDOT SPECIFICATION SECTION 971, NON-REFLECTIVE WHITE TRAFFIC PAINT.

5. ALL ROADWAY TRAFFIC SIGNS SHALL BE MANUFACTURED USING HIGH INTENSITY RETROREFLECTIVE MATERIALS. THE BACK OF ALL FINISHED PANELS SHALL BE STENCILED WITH THE DATE OF FABRICATION, THE FABRICATOR'S INITIALS, AND THE NAME OF THE SHEETING IN THREE-INCH LETTERS.

6. INTERNAL SITE TRAFFIC SIGNS ARE NOT REQUIRED TO BE RETROREFLECTIVE.

7. THE CONTRACTOR SHALL VERIFY THE REQUIRED LENGTH OF THE SIGN COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.

8. ALL PAVEMENT MARKINGS REQUIRE LAYOUT APPROVAL IN THE FIELD BY THE ENGINEER PRIOR TO INSTALLATION.

9. PRIOR TO FINAL PAVEMENT MARKING INSTALLATION, A TWO WEEK CURE TIME OF THE ASPHALT IS REQUIRED.

XI. AS-BUILT DRAWING REQUIREMENTS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF THE APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.

2. AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER THREE WEEKS PRIOR TO FINAL INSPECTION. ALL AS-BUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEALED AND DATED BY THE RESPONSIBLE PARTY.

3. AT THE COMPLETION OF THE WORK, DELIVER THE DRAWINGS DOCUMENTING AS-BUILT INFORMATION, MEASURED BY A LICENSED SURVEYOR, TO THE ENGINEER, IN GOOD CONDITION AND FREE FROM ANY EXTRANEOUS NOTATION. THE AS-BUILT INFORMATION IS TO INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

a. HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS FOR ALL UTILITY AND STORM STRUCTURES INCLUDING BUT NOT LIMITED TO MANHOLES, INLETS AND CLEANOUTS, INCLUDING STRUCTURE TOP AND INVERT ELEVATIONS.

b. DISTANCE ALONG PIPELINES BETWEEN STRUCTURES.

c. STORMWATER POND TOP OF BERM AND POND BOTTOM ELEVATIONS AND HORIZONTAL DIMENSIONS MEASURED AT A MINIMUM OF TEN LOCATIONS PER POND, AT LOCATIONS DESIGNATED BY THE ENGINEER. TOP OF POND HORIZONTAL DIMENSIONS ARE ALSO TO BE TIED TO PROPERTY CORNERS, EASEMENTS, AND RIGHTS-OF-WAY.

d. STORMWATER CONTROL STRUCTURE DIMENSIONS AND ELEVATIONS, INCLUDING ALL WEIRS, SLOTS, ORIFICES, GRATES, AND SKIMMERS.

e. STORMWATER CONVEYANCE SYSTEMS INCLUDING DIMENSIONS, ELEVATIONS, CONTOURS, AND CROSS SECTIONS.

f. HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS OF ALL UTILITY VALVES, FITTINGS, CONNECTION POINTS, ETC.

g. VERTICAL ELEVATIONS OF ALL PIPELINES AT CROSSINGS OF POTABLE WATER MAINS (WHETHER THE WATER MAIN IS EXISTING OR NEW) IN ORDER TO DOCUMENT THAT THE MINIMUM REQUIRED VERTICAL SEPARATION HAS BEEN MET.

h. UTILITY PIPELINE TIED HORIZONTALLY TO EDGE OF PAVEMENT AND RIGHT-OF-WAY LINES, LOCATED EVERY 200-FT PLUS ALL CHANGES IN HORIZONTAL OFFSET.

i. PAVEMENT WIDTH AND ELEVATIONS AT THE CENTERLINE AND EDGE OF PAVEMENT EVERY 200 FEET PLUS AT ALL CHANGES IN LONGITUDINAL SLOPE, CROSS SLOPE, INLET LOCATIONS, AND AT ALL DRIVEWAY AND STREET INTERSECTIONS. FOR PARKING LOTS, RECORD CENTERLINE AND EDGE OF PAVEMENT ELEVATIONS ALONG ALL DRIVE AISLES AND ISLANDS.

j. ALL PARKING AREAS AND SIDEWALK RAMPS DESIGNATED FOR HANDICAP ACCESS SHALL CONTAIN HORIZONTAL AND VERTICAL MEASUREMENTS IN ORDER TO VERIFY REQUIRED WIDTHS AND SLOPES HAVE BEEN MET.

k. HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION THAT DEVIATES FROM THE APPROVED ENGINEERING DRAWINGS.

l. WHERE THE PLANS CONTAIN SPECIFIC HORIZONTAL LOCATION DATA, SUCH AS STATION AND OFFSET, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL HORIZONTAL LOCATION.

m. WHERE THE PLANS CONTAIN SPECIFIC VERTICAL ELEVATION DATA, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL MEASURED VERTICAL ELEVATION.

XII. OBSERVATIONS AND TESTING:

1. THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PUMPING EQUIPMENT, WATER, WATER METERS, PRESSURE GAUGES, AND OTHER EQUIPMENT, MATERIAL AND FACILITIES REQUIRED FOR ALL HYDROSTATIC, LEAKAGE, AND PRESSURE TESTING. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND THE OWNER IN WRITTEN FORM, FORTY-EIGHT (48) HOURS IN ADVANCE OF PROPOSED TESTING. THE CONTRACTOR SHALL PERFORM SATISFACTORY PRE-TESTING PRIOR TO NOTIFICATION.

2. THE ENGINEER OF RECORD WILL REQUIRE THAT THE FOLLOWING TESTS BE PERFORMED WITH ACCEPTABLE RESULTS:

A. SANITARY SEWER COLLECTION SYSTEM:
- INFILTRATION/EXFILTRATION TEST UP TO THE CONNECTING MANHOLE
- LAMPING TEST FROM MANHOLE TO MANHOLE, INCLUDING CONNECTING MANHOLE (IF APPLICABLE)
- PRESSURE TEST AS REQUIRED BY DRER

B. SANITARY SEWER COLLECTION SYSTEM:
- EXFILTRATION TRENCH DEPTH
- LAMPING TEST FROM MANHOLE TO MANHOLE, INCLUDING CONNECTING MANHOLE (IF APPLICABLE)

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CHRISTOPHER PATRICK COLLINS, LICENSE No. 73819, STATE OF FLORIDA, PROFESSIONAL ENGINEER
CHRISTOPHER COLLINS, P.E.
REG-# 73819
3/11/2024

This item has been digitally signed and sealed by Christopher P. Collins, P.E. on the date adjacent to the seal.

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Revision 6	Date
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Revision 5	Date
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Revision 4	Date
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Revision 3	Date
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Revision 2	Date
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Revision 1	Date
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Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	N.T.S.
Date:	05/25/2022
Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE
2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

GENERAL NOTES

Sheet No.
C-2.1

DRC
PZ22-12000027
10/01/2025

DRC
PZ22-12000027
12/03/2025

B.C.H.C.E.D. REF. NO. 200617002

I. GENERAL PROVISIONS:

1. THE CONTRACTOR SHALL OBTAIN FROM THE OWNER COPIES OF ALL AVAILABLE REGULATORY AGENCY PERMITS AND LOCAL AGENCY PERMITS.

2. ALL WORK AND MATERIALS SHALL CONFORM TO CURRENT POMPANO BEACH PUBLIC WORKS DEPARTMENT, MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT (MDCPWD), MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (DRER), MIAMI-DADE COUNTY WATER AND SEWER DEPARTMENT, MIAMI-DADE COUNTY WATER AND SEWER DEPARTMENT (M-DWASD), FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS, FLORIDA DEPARTMENT OF HEALTH (FDOH), AND SPECIFICATIONS AS WELL AS ALL LOCAL, STATE, AND NATIONAL CODES AND REGULATORY REQUIREMENTS, AS APPLICABLE.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF FEDERAL OCCUPATIONAL SAFETY AND HEALH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.

4. ALL CONSTRUCTION PROJECTS 1 OR MORE ACRES IN SIZE THAT DISCHARGE TO OFFSITE AREAS ARE REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORMWATER DISCHARGE FROM SMALL AND LARGE CONSTRUCTION ACTIVITIES. IN ORDER TO MEET NPDES REQUIREMENTS, THE CONTRACTOR IS RESPONSIBLE FOR PREPARING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP), IMPLEMENTING, INSPECTING, MAINTAINING, AND REPORTING ON ALL ELEMENTS OF THE SWPPP, COMPLETING AND SUBMITTING THE REQUIRED NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) FORMS AS THE OPERATOR, AND PAYING ALL ASSOCIATED FEES. FOR PROJECTS LESS THAN 1 ACRE IN SIZE THAT ARE NOT REQUIRED TO COMPLY WITH THE NPDES GENERAL PERMIT, THE CONTRACTOR IS STILL RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO AND DURING CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

5. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY UNDERGROUND EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING, OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING THE PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

7. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL USE THE GEOMETRY PROVIDED ON THE CONSTRUCTION PLANS. BENCHMARK INFORMATION SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER OR OWNER'S SURVEYOR. ANY DISCREPANCIES BETWEEN FIELD MEASUREMENTS AND CONSTRUCTION PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

8. BASE SURVEY INFORMATION INCLUDING BUT NOT LIMITED TO ELEVATIONS, EASEMENTS, RIGHTS OF WAY, AND OTHER TOPOGRAPHIC INFORMATION SHOWN ON THE DRAWINGS HAVE BEEN PREPARED BY MILLER LEGG. URBN DESIGN ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION.

9. THIS SET OF PLANS MAY CONTAIN DRAWINGS PREPARED BY OTHER PROFESSIONALS, WHICH CONTAIN THE NAME, ADDRESS, AND LOGO OF THE PROFESSIONAL. URBN DESIGN IS NOT RESPONSIBLE FOR DRAWINGS PREPARED BY OTHER PROFESSIONALS.

10. THE CONTRACTOR SHALL SUBMIT COPIES OF SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION. PRIOR TO SUBMISSION, THE CONTRACTOR SHALL THOROUGHLY CHECK SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES FOR COMPLETENESS AND FOR COMPLIANCE WITH THE CONSTRUCTION PLANS AND SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND SHALL COORDINATE THE SHOP DRAWINGS WITH THE REQUIREMENTS FOR OTHER RELATED WORK. THE CONTRACTOR'S RESPONSIBILITY FOR ERRORS AND OMISSIONS IN SUBMITTALS IS NOT RELIEVED BY THE ENGINEER'S REVIEW OF SUBMITTALS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN WRITING AT THE TIME OF SUBMISSION, OF DEVIATIONS IN SUBMITTALS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

11. PROTECT BENCHMARKS, PROPERTY CORNERS, AND OTHER SURVEY MONUMENTS FROM DAMAGE OR DISPLACEMENT. IF MARKER NEEDS TO BE REMOVED IT SHALL BE REFERENCED BY LICENSED LAND SURVEYOR AND REPLACED, AS NECESSARY, BY SAME.

12. THE CONTRACTOR IS RESPONSIBLE FOR ALL QUALITY CONTROL TESTING. AS A MINIMUM, TESTING SHALL INCLUDE A) PIPING AND STRUCTURAL EXCAVATION, BEDDING AND BACKFILL MATERIALS AND DENSITY TESTS; B) DETERMINATION OF COMPACTIVE EFFORT NEEDED FOR COMPLIANCE WITH THE DENSITY REQUIREMENTS; C) PORTLAND CEMENT CONCRETE AND ASPHALT PAVING QUALITY CONTROL TESTING INCLUDING DESIGN MIX REVIEW, MATERIALS, FIELD SLUMP AND AIR CONTENT, AND FIELD AND LAB CURED STRENGTH SAMPLES AND TESTING.

13. IN ADDITION TO QUALITY CONTROL TESTING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED TESTING OR APPROVALS FOR ANY WORK (OR ANY PART THEREOF) IF LAWS OR REGULATIONS OF ANY PUBLIC BODY HAVING JURISDICTION SPECIFICALLY REQUIRE TESTING, INSPECTIONS OR APPROVAL. THE CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION THEREWITH AND SHALL FURNISH THE OWNER AND ENGINEER THE REQUIRED CERTIFICATES OF INSPECTION, TESTING OR APPROVAL.

14. ANY DESIGN OR TESTING LABORATORY UTILIZED BY THE CONTRACTOR SHALL BE AN INDEPENDENT LABORATORY ACCEPTABLE TO THE OWNER AND THE ENGINEER, APPROVED IN WRITING, AND COMPLYING WITH THE LATEST EDITION OF THE "RECOMMENDED REQUIREMENTS FOR INDEPENDENT LABORATORY QUALIFICATION", PUBLISHED BY THE AMERICAN COUNCIL OF INDEPENDENT LABORATORIES.

15. THE ENTIRE PROJECT SITE SHALL BE THOROUGHLY CLEANED AT THE COMPLETION OF THE WORK. CLEAN ALL INSTALLED PIPELINES, STRUCTURES, SIDEWALKS, PAVED AREAS, ACCUMULATED SILT IN PONDS, PLUS ALL ADJACENT AREAS AFFECTED BY CONSTRUCTION, AS DIRECTED BY THE OWNER OR JURISDICTIONAL AGENCY. EQUIPMENT TO CLEAN THESE SURFACES SHALL BE SUBJECT TO APPROVAL BY THE OWNER.

II. UTILITY PROVISIONS:

1. THE UTILITY DATA SHOWN ON THESE PLANS WAS LOCATED BY THE RESPECTIVE UTILITY, OR IS BASED ON UTILITY DRAWINGS, MAPS, OR FIELD RECONNAISSANCE.

6. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. AN APPROPRIATE LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GENERAL GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR WISHES TO NOTIFY.

7. A SINGLE POINT UTILITY IDENTIFICATION SERVICE HAS BEEN SET UP FOR EXISTING UTILITIES. THE CONTRACTOR IS TO CONTACT THE SUNSHINE STATE ONE CALL CENTER BY DIALING "811" AT LEAST TWO (2) AND NO MORE THAN FIVE (5) WORKING DAYS PRIOR TO THE SPECIFIC CONSTRUCTION ACTIVITY FOR FIELD LOCATION. NOTE THAT NOT ALL UTILITIES PARTICIPATE IN THIS PROGRAM. THE CONTRACTOR SHOULD CONTACT ALL NON-PARTICIPATING UTILITIES SEPARATELY FOR FIELD LOCATION OF THEIR FACILITIES AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. PER FLORIDA STATUTE 553.851, THE CONTRACTOR OR EXCAVATOR IS REQUIRED TO NOTIFY THE GAS COMPANY TWO (2) WORKING DAYS PRIOR TO STARTING EXCAVATION.

8. THE CONTRACTOR SHALL KEEP LOCATE TICKETS UP TO DATE AT ALL TIMES.

9. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER, AND THE ENGINEER OF RECORD.

10. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH EACH UTILITY AND ALL COSTS ASSOCIATED WITH THE PROTECTION OF EXISTING FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO ARRANGE FOR ANY REMOVAL, RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK, IF APPLICABLE.

11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN IN SERVICE ALL EXISTING PIPING ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE OWNER AND THE ENGINEER.

12. TYPICAL DETAILS AS SHOWN ARE TO ILLUSTRATE THE ENGINEER'S INTENT AND ARE NOT PRESENTED AS A SOLUTION TO ALL CONSTRUCTION PROBLEMS ENCOUNTERED IN THE FIELD. THE CONTRACTOR MAY ALTER THE METHOD OF CONSTRUCTION TO SUIT FIELD CONDITIONS, PROVIDING HE SUBMITS A PROPOSAL FOR AN ALTERNATE METHOD TO THE ENGINEER FOR APPROVAL AND USES MATERIALS AS DESIGNATED IN THE SPECIFICATIONS.

13. FOR EACH RESPECTIVE PIPELINE CONSTRUCTION REQUIRED, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, DEPTH, AND ALIGNMENT OF ALL EXISTING PIPES, CABLES, ETC. TO BE CROSSED OR CONNECTED TO. IF THE CONTRACTOR DEEMS NECESSARY (A) A CHANGE IN ALIGNMENT OR DEPTH, OR THE NEED FOR ADDITIONAL FITTINGS, BENDS, OR COUPLINGS, WHICH REPRESENT A DEPARTURE FROM THE CONTRACT DRAWING, OR (B) A NEED FOR RELOCATION OF EXISTING UTILITIES, THEN DETAILS OF SUCH DEPARTURES, RELOCATIONS, OR ADDITIONAL FITTINGS, INCLUDING CHANGES IN RELATED PORTIONS OF THE PROJECT AND THE REASONS THEREFORE, SHALL BE SUBMITTED WITH SHOP DRAWINGS. APPROVED DEPARTURES FOR THE CONTRACTOR'S CONVENIENCE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

III. SITE PREPARATION:

1. UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER, THE CONTRACTOR IS EXPECTED TO CONTAIN ALL CONSTRUCTION ACTIVITIES WITHIN THE PROPERTY, RIGHT-OF-WAY, AND EASEMENTS AS INDICATED ON THE DRAWINGS. AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER. ANY REPAIR OR RECONSTRUCTION OF DAMAGED AREAS IN SURROUNDING PROPERTIES SHALL BE REPAIRED BY THE CONTRACTOR ON AN IMMEDIATE BASIS. ALL COSTS FOR REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE PROVIDED.

2. STAKE OUT THE CONSTRUCTION, ESTABLISH LINES AND LEVELS, TEMPORARY BENCH MARKS, BATTER BOARDS, CENTERLINES, BASELINES, AND REFERENCE POINTS FOR THE WORK, AND VERIFY ALL DIMENSIONS RELATING TO INTERCONNECTION WITH EXISTING FEATURES. REPORT ANY INCONSISTENCIES IN THE PROPOSED GRADES, LINES AND LEVELS, DIMENSIONS AND LOCATIONS TO THE ENGINEER BEFORE COMMENCING WORK.

3. PROTECT ALL TREES AND SHRUBS LOCATED OUTSIDE THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, PARTICULARLY THOSE TREES AND SHRUBS LOCATED ADJACENT TO WORK AREAS.

4. WITHIN THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, THE INTENT IS TO ALLOW TREES AND SHRUBS TO REMAIN IN ACCORDANCE WITH THE FOLLOWING SCHEDULE: NEW ROADWAY CONSTRUCTION - TREES AND SHRUBS TO REMAIN WHERE LOCATED MORE THAN 15 FEET FROM THE BACK OF CURB, OR OUTSIDE THE LIMITS OF EXCAVATION OR FILL AREAS, WHICHEVER IS FURTHER. UTILITY PIPELINE CONSTRUCTION - TREES AND SHRUBS TO REMAIN OUTSIDE A 15 FOOT WIDE PATH, CENTERED ON THE PIPELINE.

5. TREES TO REMAIN IN THE CONSTRUCTION AREA SHALL BE BOXED, FENCED OR OTHERWISE PROTECTED IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. DO NOT PERMIT HEAVY EQUIPMENT OR STOCKPILES WITHIN BRANCH SPREAD

6. AREAS TO RECEIVE CLEARING AND GRUBBING SHALL INCLUDE ALL AREAS TO BE OCCUPIED BY THE PROPOSED IMPROVEMENTS, AREAS FOR FILL AND SITE GRADING, AND BORROW SITES. REMOVE TREES OUTSIDE OF THESE AREAS ONLY AS INDICATED ON THE DRAWINGS OR AS APPROVED IN WRITING BY THE ENGINEER.

7. CLEARING SHALL CONSIST OF REMOVING TREES AND BRUSH AND DISPOSAL OF OTHER MATERIALS THAT ENCROACH UPON OR OTHERWISE OBSTRUCT THE WORK.

8. EXERCISE EXTREME CARE DURING THE CLEARING AND GRUBBING OPERATIONS. DO NOT DAMAGE EXISTING STRUCTURES, PIPES OR UTILITIES.

9. GRUBBING SHALL CONSIST OF REMOVING AND DISPOSING OF STUMPS, ROOTS LARGER THAN 2" IN DIAMETER, AND MATTED ROOTS. REMOVE TO A DEPTH OF NOT LESS THAN 18" BELOW THE ORIGINAL SURFACE LEVEL OF THE GROUND.

10. ALL COMBUSTIBLE DEBRIS AND REFUSE FROM SITE PREPARATION OPERATIONS SHALL BE REMOVED TO LEGAL OFFSITE DISPOSAL AREAS.

IV. DEWATERING:

1. DESIGN AND PROVIDE DEWATERING SYSTEM USING ACCEPTED AND PROFESSIONAL METHODS CONSISTENT WITH CURRENT INDUSTRY PRACTICE. PROVIDE DEWATERING SYSTEM OF SUFFICIENT SIZE AND CAPACITY TO CONTROL GROUNDWATER IN A MANNER THAT PRESERVES STRENGTH OF FOUNDATION SOILS, DOES NOT CAUSE INSTABILITY OR RAVELING OF EXCAVATION SLOPES, AND DOES NOT RESULT IN DAMAGE TO EXISTING STRUCTURES. WHERE NECESSARY TO THESE PURPOSES, LOWER WATER LEVEL IN ADVANCE OF EXCAVATION, UTILIZING WELLS, WELLPOINTS, OR SIMILAR POSITIVE METHODS. MAINTAIN THE GROUNDWATER LEVEL TO A MINIMUM OF 2 FEET BELOW EXCAVATIONS. PROVIDE PIEZOMETERS IF DIRECTED BY THE ENGINEER TO DOCUMENT THE GROUNDWATER LEVEL IS BEING MAINTAINED.

2. CONTROL, BY ACCEPTABLE MEANS, ALL WATER REGARDLESS OF SOURCE AND BE FULLY RESPONSIBLE FOR DISPOSAL OF THE WATER. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY SUPPLEMENTAL MEASURES TO CONTROL SEEPAGE, GROUNDWATER, OR ARTESIAN HEAD.

3. OPEN PUMPING WITH SUMPS AND DITCHES SHALL BE ALLOWED, PROVIDED IT DOES NOT RESULT IN BOILS, LOSS OF FINES, SOFTENING OF THE GROUND, OR INSTABILITY OF SLOPES. SUMPS SHALL BE LOCATED OUTSIDE OF LOAD BEARING AREAS SO THE BEARING SURFACES WILL NOT BE DISTURBED. WATER CONTAINING SILT IN SUSPENSION SHALL NOT BE PUMPED INTO SEWER LINES OR ADJACENT STREAMS. DURING NORMAL PUMPING, AND UPON DEVELOPMENT OF WELL(S), LEVELS OF FINE SAND OR SILT IN THE DISCHARGE WATER SHALL NOT EXCEED 5 PPM.

4. IF DEWATERING EQUIPMENT NEEDED EXCEEDS ANY OF THE FOLLOWING: 1) 6" PUMP VOLUTE; 2) 100,000 GPD TOTAL 24 HOUR (1 DAY) DEWATERING, AND; 3) 1,000,000 GPD PUMP CAPACITY, THE CONTRACTOR SHALL BE REQUIRED TO PERMIT THE DEWATERING SYSTEM WITH THE WATER MANAGEMENT DISTRICT.

5. CONTINUOUSLY MAINTAIN EXCAVATIONS IN A DRY CONDITION WITH POSITIVE DEWATERING METHODS DURING PREPARATION OF SUBGRADE, INSTALLATION OF PIPE, AND CONSTRUCTION OF STRUCTURES UNTIL THE CRITICAL PERIOD OF CONSTRUCTION AND/OR BACKFILL IS COMPLETED TO PREVENT DAMAGE OF SUBGRADE SUPPORT, PIPING, STRUCTURE, SIDE SLOPES, OR ADJACENT FACILITIES FROM FLOTATION OR OTHER HYDROSTATIC PRESSURE IMBALANCE.

6. WHEN CONSTRUCTION IS COMPLETE, REMOVE ALL DEWATERING EQUIPMENT FROM THE SITE, INCLUDING WELLS AND RELATED TEMPORARY ELECTRICAL SERVICE.

V. EROSION AND SEDIMENT CONTROL:

1. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PROVIDED AND INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. SEDIMENT CONTROL CONSISTS OF SILT FENCING AND FLOATING TURBIDITY BARRIERS PER FDOT INDEX NO. 102 AND 103. EROSION CONTROL CONSISTS OF SEEDING AND MULCHING, SODDING, WETTING SURFACES, PLACEMENT OF COARSE AGGREGATE, TEMPORARY PAVING.

2. MAINTAIN TEMPORARY EROSION CONTROL SYSTEMS AS DIRECTED BY OWNER OR GOVERNING AUTHORITIES TO CONTROL EROSION AND SILTATION DURING LIFE OF CONTRACT. OWNER HAS AUTHORITY TO LIMIT SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING, EXCAVATION, TRENCHING, BORROW AND EMBANKMENT OPERATIONS. OWNER ALSO HAS AUTHORITY TO DIRECT CONTRACTOR TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

3. CONTRACTOR SHALL RESPOND TO EROSION AND SEDIMENT CONTROL MAINTENANCE REQUIREMENTS OR IMPLEMENT ADDITIONAL MEASURES TO CONTROL EROSION ORDERED BY OWNER OR GOVERNING AUTHORITIES WITHIN 48 HOURS OR SOONER IF REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

4. CONTRACTOR WILL BE REQUIRED TO INCORPORATE PERMANENT EROSION CONTROL FEATURES INTO PROJECT AT EARLIEST PRACTICAL TIME TO MINIMIZE NEED FOR TEMPORARY CONTROLS.

5. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS REPRESENT A MINIMUM REQUIREMENT. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NEEDED IN ORDER TO PREVENT THE TRANSFER OF SEDIMENT FROM THE PROJECT AREA AND PREVENT THE EROSION OF SURFACES DURING CONSTRUCTION, AS NEEDED TO PROTECT ADJACENT PROPERTIES AND WATER BODIES.

6. GRASS ALL DISTURBED AREAS WITHIN 7 DAYS OF INITIAL DISTURBANCE. TYPE OF GRASSING SHALL BE AS FOLLOWS: TEMPORARY GRASSING TO BE SODDING AT ALL DRAINAGE STRUCTURES, RETENTION AREAS, SWALES AND DITCHES, AND WHERE SLOPES ARE STEEPER THAN 5:1. TEMPORARY GRASSING CAN BE SEED AND MULCH AT ALL OTHER LOCATIONS UNLESS OTHERWISE INDICATED IN THE DRAWINGS OR SPECIFICATIONS.

7. INSPECT EVERY TWO WEEKS DURING CONSTRUCTION. REMOVE ANY SEDIMENT BUILD-UP. REPAIR AND REINSTALL ANY DAMAGED OR MISSING SEDIMENT CONTROL MEASURES. INSTALL ADDITIONAL MEASURES IF INSPECTION REVEALS ADDITIONAL SEDIMENTATION CONTROL IS NECESSARY.

8. AREAS TO BE PAVED SHALL BE TREATED WITH A BITUMINOUS PRIME COAT AND SANDED TO MINIMIZE EROSION, WHERE PAVING IS SCHEDULED TO OCCUR MORE THAN 48 HOURS AFTER INSTALLATION OF BASE COURSE. AREAS TO RECEIVE CONCRETE PAVING SHALL BE EITHER PROTECTED WITH A LAYER OF FDOT COARSE AGGREGATE MATERIAL OR SHALL BE PAVED WITHIN 48 HOURS OF INSTALLATION OF THE SUBGRADE. INSTALL FINAL SURFACE COURSES WITHIN 14 DAYS AFTER REMOVAL OF EXISTING PAVEMENT.

VI. TRAFFIC CONTROL:

1. **THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN PRIOR TO CONSTRUCTION. THE M.O.T. PLAN SHALL SHOW ALL PROPOSED TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, AND BARRICADES, AND SHALL DETAIL ALL PROPOSED CONSTRUCTION SEQUENCING. THE M.O.T. PLAN SHALL BE APPROVED BY THE ENGINEER, OWNER, AND ROADWAY JURISDICTIONAL AGENCY PRIOR TO CONSTRUCTION. ALL PROPOSED ROADWAY AND DRIVEWAY LANE CLOSURES SHALL BE RESTRICTED TO THE HOURS BETWEEN 9:00 A.M. AND 4:00 P.M. UNLESS OTHERWISE AUTHORIZED IN THE APPROVED M.O.T.**

2. **ALL CONSTRUCTION SIGNING AND MARKINGS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH FDOT INDEX NO. 600 AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE PLACEMENT OF THE SIGNING AND MARKINGS SHALL BE APPROVED IN THE FIELD BY THE ENGINEER PRIOR TO CONSTRUCTION.**

3. **INSPECT TRAFFIC CONTROL DEVICES ON A DAILY BASIS TO ENSURE PLACEMENT OF BARRICADES AND FUNCTION OF LIGHTS IS MAINTAINED THROUGHOUT CONSTRUCTION.**

4. **CONTACT PROPERTY OWNERS AFFECTED BY CONSTRUCTION. COORDINATE TEMPORARY DRIVEWAY CLOSURES AND SEQUENCING. MAINTAIN ACCESS FOR ALL PROPERTY OWNERS DURING CONSTRUCTION.**

5. **WET UNSTABILIZED AREAS AS NECESSARY TO CONTROL DUST.**

6. **ADJUST TRAFFIC CONTROL DEVICES AS REQUIRED UNDER EMERGENCY CONDITIONS.**

7. **THE CONTRACTOR IS EXPECTED TO COORDINATE ITS ACTIVITIES WITH OTHER CONTRACTORS WHO MAY BE WORKING IN THE IMMEDIATE VICINITY.**

8. **WHEN WORK OCCURS WITHIN 15-FT OF ACTIVE ROAD TRAVEL LANES BUT NO CLOSER THAN 2-FT FROM THE EDGE OF PAVEMENT, SIGNAGE AND WARNING DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH FDOT INDEX NO. 600 AND 602, FOR A 2-LANE ROADWAY AND PER INDEX # 612 FOR A 4 LANE HIGHWAY.**

9. **TYPE I OR TYPE II BARRICADES AT 20-FT CENTERS SHALL BE PLACED AND MAINTAINED ALONG THE EDGE OF THE ROAD WHEREVER DROP-OFFS OR OTHER HAZARDS EXIST AND TO BLOCK ENTRANCE INTO COMPLETED OR PARTIALLY COMPLETED PAVEMENTS UNTIL SUCH PAVEMENTS ARE OPEN TO PUBLIC USE.**

VII. STORM DRAINAGE:

A. EXCAVATION, TRENCHING, AND FILL

1. THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (FS 553.60-553.64). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.

2. ROUGH EXCAVATE AND GRADE ANY PROPOSED STORMWATER PONDS AT THE START OF SITE GRADING ACTIVITIES. DIRECT SITE RUNOFF TO THE PONDS TO MINIMIZE RUNOFF TO OFFSITE AREAS.

3. POND CONSTRUCTION SHALL RESULT IN THE FINISHED POND HAVING SIDE SLOPES AND DIMENSIONS THAT ARE IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT THESE REQUIREMENTS HAVE BEEN MET. IF THE CONSTRUCTED SIDE SLOPES ARE STEEPER THAN THE REQUIRED SIDE SLOPES, OR THE POND VOLUME IS NOT WITHIN THREE (3) PERCENT OF THE DESIGN VOLUME, THE CONTACTOR MAY BE REQUIRED TO MAKE CORRECTIONS TO THE POND AT NO ADDITIONAL COST TO THE OWNER.

4. FIELD DENSITY TESTING FREQUENCIES: A) ONE TEST FOR EACH 10,000 SQUARE FEET OR FRACTION THEREOF PER LIFT OF GENERAL BACKFILLING, MINIMUM 2 TESTS EACH LAYER; B) ONE TEST FOR EACH 100 SQUARE FEET OR FRACTION THEREOF OF BACKFILL AROUND AND UNDER STRUCTURES; C) ONE TEST FOR EACH 300 LINEAL FEET OR FRACTION THEREOF PER LIFT OF GENERAL BACKFILLING IN THE PIPELINE TRENCH; D) ONE TEST PER LIFT PER EACH CHANGE IN TYPE OF FILL; E) ONE TEST PER 1000 SQUARE FEET OF PAVEMENT SUBGRADE, MINIMUM OF 2 TESTS.

5. IT IS INTENDED THAT PREVIOUSLY EXCAVATED MATERIALS CONFORMING TO THE FOLLOWING REQUIREMENTS BE UTILIZED WHEREVER POSSIBLE.

   VI. ACCEPTABLE MATERIALS: AASHTO M145 CLASSIFICATION A-1, A-3, A-2-4, A-2-6; ASTM D2487 CLASSIFICATION GW, GP, GM, SM, SW, SP; UNLESS OTHERWISE DISAPPROVED WITHIN THE SOIL AND SUBSURFACE INVESTIGATION REPORTS. NO MORE THAN 12% OF ACCEPTABLE MATERIALS SHALL PASS THE NUMBER 200 SIEVE.

   VJ. UNACCEPTABLE MATERIALS: AASHTO M145 CLASSIFICATION A-2-5, A-2-7, A-4, A-5, A-6, A-7, A-8; ASTM D2487 CLASSIFICATION GC, SC, ML, MH, CL, CH, OL, OH, PT; UNLESS OTHERWISE APPROVED WITHIN THE SOIL AND SUBSURFACE INVESTIGATION REPORTS.

6. PROVIDE BARRIERS, WARNING LIGHTS AND OTHER PROTECTIVE DEVICES AT ALL EXCAVATIONS.

7. SIDEWALKS, ROADS, STREETS, AND PAVEMENTS SHALL NOT BE BLOCKED OR OBSTRUCTED BY EXCAVATED MATERIALS, EXCEPT AS AUTHORIZED BY THE ENGINEER, IN WHICH CASE ADEQUATE TEMPORARY PROVISIONS MUST BE MADE FOR SATISFACTORY TEMPORARY PASSAGE OF PEDESTRIANS, AND VEHICLES. MINIMIZE INCONVENIENCE TO PUBLIC TRAVEL OR TO TENANTS OCCUPYING ADJOINING PROPERTY.

8. FURNISH, INSTALL, AND MAINTAIN, WITHOUT ADDITIONAL COMPENSATION, SHEETING, BRACING, AND SHORING SUPPORT REQUIRED TO KEEP EXCAVATIONS WITHIN THE PROPERTY OR EASEMENTS PROVIDED, TO SUPPORT THE SIDES OF THE EXCAVATION, AND TO PREVENT ANY MOVEMENT WHICH MAY DAMAGE ADJACENT PAVEMENTS OR STRUCTURES, DAMAGE OR DELAY THE WORK, OR ENDANGER LIFE AND HEALTH. VOIDS OUTSIDE THE SUPPORTS SHALL BE IMMEDIATELY FILLED AND COMPACTED.

9. ALL EXCAVATIONS SHALL BE MADE BY OPEN CUT UNLESS OTHERWISE INDICATED. SLOPE SIDES OF TRENCHES IN ACCORDANCE WITH OSHA REQUIREMENTS AND THE RECOMMENDATIONS CONTAINED WITHIN THE PROJECT GEOTECHNICAL REPORT.

10. EXCAVATE TRENCHES TO DEPTH INDICATED OR REQUIRED FOR INDICATED FLOW LINES AND INVERT ELEVATIONS. OVER EXCAVATE TRENCHES A MINIMUM OF 2 FEET WHERE EXCAVATIONS OCCUR WITHIN UNSUITABLE SOILS, AND REPLACE OVER EXCAVATED MATERIAL WITH SUITABLE SOILS.

11. EXCEPT AS OTHERWISE INDICATED, EXCAVATE FOR PRESSURE PIPING SO TOP OF PIPING IS MINIMUM 3 FEET BELOW FINISHED GRADE.

12. TRENCH BOTTOMS AND THE BOTTOMS OF ALL STRUCTURES SHALL BE KEPT DRY, COMPACTED, AND STABLE TO A DEPTH TWO FEET BELOW THE BOTTOM OF THE TRENCH OR STRUCTURE.

13. ALL BEDDING, FILL, AND BACKFILL MATERIAL SHALL BE SUITABLE SOILS OR FLOWABLE FILL. WHERE TRENCH OR EXCAVATION IS WITHIN THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, FOUNDATIONS, OR SLABS, PLACE BACKFILL IN LAYERS OF 8 INCH LOOSE DEPTH. IN ALL OTHER AREAS, PLACE FILL AND BACKFILL IN LAYERS OF 12 INCH LOOSE DEPTH.

14. MINIMUM DENSITY REQUIREMENT (ASTM D1557 OR AASHTO T180): BACKFILL AND FILL UNDER AND WITHIN THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, SLABS, FOUNDATIONS = 98 PERCENT; BACKFILL AND FILL PLACED WITHIN PUBLIC ROAD RIGHT-OF-WAY AND UTILITY EASEMENTS = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED IN ALL OTHER AREAS = 90 PERCENT.

B. STORM SEWER SYSTEMS

1. **ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE INDICATED ON THE DRAWINGS. ROUND CONCRETE PIPE SHALL COMPLY WITH ASTM C76. ELLIPTICAL CONCRETE PIPE SHALL COMPLY WITH ASTM C507. PIPE JOINTS AND O-RING GASKETS SHALL COMPLY ASTM C443. MINIMUM COVER OVER THE PIPE, INCLUDING COVER OVER THE BELL OF THE PIPE WHERE APPLICABLE, SHALL BE 30 INCHES.**

2. **RCP PIPE SHALL NOT BE SHIPPED FROM MANUFACTURER UNTIL THE COMPRESSIVE STRENGTH OF THE PIPE HAS REACHED 4000 PSI AND A MINIMUM OF 5 DAYS HAVE PASSED SINCE THE MANUFACTURING OR REPAIR OF THE PIPE HAS BEEN COMPLETED.**

3. **CORRUGATED POLYETHYLENE (PE) PIPE AND FITTINGS SHALL BE HIGH DENSITY, IN ACCORDANCE WITH ASTM D3350, CELL CLASSIFICATION 324420C (4"-10") OR CELL CLASSIFICATION 335420C (12"-36"). PIPE 4"-10" SHALL COMPLY WITH AASHTO M252, TYPE S. PIPE 12"-36" SHALL COMPLY WITH AASHTO M294, TYPE S. BELL JOINTS FOR 4"-10" PIPE SHALL BE PUSH-ON SLEEVE. BELL JOINTS FOR 12"-36" PIPE SHALL BE INTEGRALLY FORMED ON PIPE. GASKETS SHALL BE INSTALLED BY PIPE MANUFACTURER AND SHALL COMPLY WITH ASTM D1056, GRADE 2A2. FITTINGS SHALL COMPLY WITH AASHTO M294.**

4. **UNDERDRAIN PIPE SHALL BE PERFORATED POLYVINYL CHLORIDE PIPE IN ACCORDANCE WITH ASTM F758. FILTER FABRIC UNDERDRAIN SOCK SHALL BE TYPE D-3 IN ACCORDANCE WITH FDOT INDEX NO. 199.**

5. **ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC. FILTER FABRIC SHALL BE IN ACCORDANCE WITH FDOT INDEX NO. 199, TYPE D-3, A.O.S. 70-100. INSTALL IN ACCORDANCE WITH FDOT INDEX NO. 280. PROVIDE MINIMUM 12" OVERLAP.**

6. **INSTALL POLYETHYLENE PIPE IN ACCORDANCE WITH ASTM D2321. BACKFILL AND COMPACT EVENLY ON EACH SIDE TO PREVENT DISPLACEMENT. MINIMUM COVER OVER POLYETHYLENE PIPE SHALL BE AS FOLLOWS: A) PIPE UNDER FLEXIBLE PAVEMENT, RIGID PAVEMENT, OR UNPAVED AREAS WHERE BEDDING IS SUITABLE SOILS AS DEFINED IN THE GENERAL NOTES: MINIMUM COVER SHALL BE 36 INCHES OR ONE PIPE DIAMETER, WHICHEVER IS GREATER; B) PIPE UNDER FLEXIBLE PAVEMENT, RIGID PAVEMENT, OR UNPAVED AREAS WHERE BEDDING IS MANUFACTURED AGGREGATES CLASS 1A OR 1B AS DEFINED IN ASTM D2321: MINIMUM COVER SHALL BE 30 INCHES OR ONE PIPE DIAMETER, WHICHEVER IS GREATER.**

7. **INSTALL UNDERDRAINS IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 440. INSTALL CLEANOUTS AS SHOWN ON THE DRAWINGS.**

8. **PRIOR TO INSPECTIONS AND TESTING, CLEAN ALL INSTALLED LINES AND STRUCTURES.**

9. **ALL STORM PIPE SHALL BE SUBJECTED TO LEAKAGE TESTING. WHEN THE GROUND WATER LEVEL IS ABOVE THE TOP OF THE PIPE, AN INFILTRATION TEST SHALL BE PERFORMED BY SEALING OFF A LENGTH OF PIPE AND MEASURING THE DEPTH OF FLOW OVER A MEASURING WEIR, OR BY PUMPING THE INFILTRATED WATER INTO CONTAINERS FOR MEASUREMENT. TESTS SHALL BE CONDUCTED FOR A MINIMUM OF FOUR HOURS. INFILTRATION LEAKAGE SHALL NOT EXCEED 150 GALLONS PER 24 HOURS, PER INCH DIAMETER, PER MILE OF PIPE. WHEN THE GROUND WATER LEVEL IS BELOW THE TOP OF THE PIPE, THE PIPE SHALL BE TESTED FOR LEAKAGE BY EXFILTRATION. EXFILTRATION LEAKAGE TEST SHALL CONSIST OF ISOLATING THE PARTICULAR SECTION, FILLING WITH WATER TO A POINT 4 FEET ABOVE THE TOP OF THE PIPE AT THE UPPER MANHOLE OR INLET, AND ALLOWING IT TO STAND NOT LESS THAN FOUR HOURS. THE SECTION SHALL THEN BE REFILLED WITH WATER UP TO THE ORIGINAL LEVEL AND AFTER TWO HOURS THE DROP IN WATER SURFACE SHALL BE MEASURED. THE COMPUTED LEAKAGE SHALL NOT EXCEED 150 GALLONS PER INCH DIAMETER, PER 24 HOURS, PER MILE OF PIPE.**

VIII. PAVING AND GRADING:

A. PAVING, SIDEWALKS, AND CURBING

1. **MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY AND PAVING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2014 EDITION.**

2. **ROADWAY PAVING, BASE, AND SUBGRADE THICKNESSES SHALL BE IN ACCORDANCE WITH DETAILS ON THESE DRAWINGS. MATERIAL STABILITY AND DENSITY REQUIREMENTS ARE AS FOLLOWS:**

   VIII. TYPE S ASPHALTIC CONCRETE: MINIMUM STABILITY 1500 LBS, COMPACTED TO A MINIMUM OF 95% OF THE MARSHALL DESIGN DENSITY. FOR OFFSITE PAVEMENT USE TYPE SP PAVEMENT PER THE FDOT STANDARDS AND SPECIFICATIONS.

   VIIJ. LIMEROCK BASE: MINIMUM LBR OF 100, PLACED IN 6" MAXIMUM LIFTS, COMPACTED TO A MINIMUM DENSITY OF 98% OF THE MODIFIED PROCTOR DRY DENSITY (AASTHO T-180). CONTRACTOR MAY SUBSTITUTE ASPHALT BASE COURSE TYPE 3 (MIN. STABILITY OF 1000 LBS) AT NO ADDITIONAL COST, PROVIDED STRUCTURAL NUMBER EQUALS OR EXCEEDS THAT OF THE SPECIFIED LIMEROCK BASE.

   VIIK. SUBGRADE: STABILIZE TO A MIN. LBR OF 40, COMPACT TO A MINIMUM DENSITY OF 98% OF THE MODIFIED PROCTOR DRY DENSITY (AASTHO T-180). CONTRACTOR MAY SUBSTITUTE LIMEROCK SUBGRADE (MIN. LBR OF 100) OR CONTROLLED LOW STRENGTH MATERIAL ("FLOWABLE FILL"), F'c (28 DAY) = 100-125 PSI AT NO ADDITIONAL COST, PROVIDED STRUCTURAL NUMBER EQUALS OR EXCEEDS THAT OF THE SPECIFIED SUBGRADE.

3. **SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREAS AS SHOWN ON THE CONSTRUCTION PLANS. THE SIDEWALK SHALL BE CONSTRUCTED OF 6" THICK CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI. JOINTS SHALL BE EITHER TOOLED OR SAW CUT AT A DISTANCE OF 10'. HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND SHALL BE IN ACCORDANCE WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION, LATEST EDITION.**

4. **CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. CONCRETE FOR CURBS SHALL BE FDOT CLASS "1" CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 2500 PSI. ALL CURBS SHALL HAVE SAW CUT CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SECTION 520 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.**

5. **FIELD COMPACTION DENSITY, STABILITY, AND THICKNESS TESTING FREQUENCIES OF SUB-BASE, BASE, AND ASPHALT SHALL BE TESTED ONCE EVERY 300 LINEAR FEET OF PAVING PER 24-FT WIDE STRIP, STAGGERED LEFT, CENTER AND RIGHT OF CENTERLINE. WHERE LESS THAN 300 LINEAR FEET OF SUB-BASE, BASE, AND ASPHALT IS PLACED IN ONE DAY, PROVIDE MIN. OF ONE TEST FOR EACH PER DAY'S CONSTRUCTION AT A LOCATION DESIGNATED BY THE ENGINEER. ASPHALT EXTRACTION GRADATION SHALL BE TESTED FROM GRAB SAMPLES COLLECTED ONCE EVERY 1800 SQUARE YARDS OF ASPHALT DELIVERED TO THE SITE (OR A MINIMUM OF ONCE PER DAY).**

B. PAVING TIMING REQUIREMENTS

1. **INSTALL SUBGRADE AND BASE COURSE MATERIALS WITHIN 48 HOURS OF THE REMOVAL/OPEN CUTTING OF EXISTING PAVEMENT CONSISTING OF STREETS, DRIVEWAYS, OR SIDEWALK. INSTALL FINAL SURFACE COURSES WITHIN 14 DAYS AFTER REMOVAL OF EXISTING PAVEMENT.**

2. **AREAS TO RECEIVE ASPHALT SHALL RECEIVE EROSION CONTROL MEASURES NO LATER THAN 48 HOURS AFTER ACCEPTANCE OF BASE COURSE. TEMPORARY EROSION CONTROL CONSISTS OF PLACEMENT OF A BITUMINOUS PRIME COAT AND SANDING THE SURFACE. PERMANENT EROSION CONTROL CONSISTS OF PLACEMENT OF THE STRUCTURAL COURSE.**

3. **AREAS TO RECEIVE CONCRETE PAVING SHALL BE EITHER PROTECTED WITH A LAYER OF FDOT COARSE AGGREGATE MATERIAL OR SHALL BE PAVED WITHIN 48 HOURS OF ACCEPTANCE OF THE SUBGRADE.**

C. GRADING

1. GRADING SHOWN ON THESE PLANS ARE PROVIDED TO THE CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL BE EXPECTED TO GRADE THE ENTIRE SITE TO PROVIDE POSITIVE DRAINAGE IN ALL AREAS THROUGHOUT THE SITE. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS TO ACCOMPLISH THE GRADING INTENT. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED.

2. ALL PAVING SURFACES IN INTERSECTIONS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY AND TO PROVIDE A SMOOTHLY TRANSITIONED DRIVING SURFACE FOR VEHICLES WITH NO SHARP BREAKS IN GRADE, AND NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES. THE STANDARD CROWN MAY HAVE TO BE CHANGED IN ORDER TO DRAIN POSITIVELY IN THE AREA OF INTERSECTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH THE ABOVE AND THE ENGINEER SHALL BE CONSULTED SO THAT HE MAY MAKE ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS OR GIVE SUPPLEMENTARY INSTRUCTIONS TO ACCOMPLISH THE INTENT OF THE PLANS.

3. UNIFORMLY SMOOTH GRADE THE SITE. DEPRESSIONS FROM SETTLEMENT SHALL BE FILLED AND COMPACTED. TOPS OF EMBANKMENTS AND BREAKS IN GRADE SHALL BE ROUNDED. FINISHED SURFACES SHALL BE REASONABLY SMOOTH, COMPACTED, FREE FROM IRREGULAR SURFACE CHANGES AND COMPARABLE TO THE SMOOTHNESS OBTAINED BY BLADE_GRADER OPERATIONS.

4. SLOPE GRADES TO DRAIN AWAY FROM STRUCTURES AT A MINIMUM OF ¼-INCH PER FOOT FOR 10 FEET. FINISHED SURFACES ADJACENT TO PAVED AREAS AND WITHIN 10 FEET OF STRUCTURES SHALL BE WITHIN 1 INCH OF THE PROPOSED GRADE. ALL OTHER AREAS SHALL BE WITHIN 3 INCHES OF THE PROPOSED GRADE.

5. NEWLY GRADED AREAS SHALL BE PROTECTED FROM TRAFFIC AND EROSION. ALL SETTLEMENT OR WASHING AWAY THAT MAY OCCUR FROM ANY CAUSE PRIOR TO SEEDING OR ACCEPTANCE SHALL BE REPAIRED AND GRADES RE_ESTABLISHED TO THE REQUIRED ELEVATIONS AND SLOPES AT NO ADDITIONAL COST TO THE OWNER.

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URBN
DESIGN
666 N.E. 125th STREET,
SUITE 247
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Phone: 305.720.2079
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CHRISTOPHER PATRICK COLLINS LICENSE No. 73819 STATE OF FLORIDA PROFESSIONAL ENGINEER
CHRISTOPHER COLLINS, P.E.
REG-# 73819
3/11/2024

This item has been digitally signed and sealed by Christopher P. Collins, P.E. on the date adjacent to the seal.

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Revision 6	Date
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Revision 5	Date
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Revision 4	Date
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Revision 3	Date
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Revision 2	Date
Comment	
Revision 1	Date
Comment	
Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	N.T.S.
Date:	05/25/2022
Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE
2900 W SAMPLE ROAD
POMPANO BEACH,
FLORIDA

GENERAL NOTES

Sheet No.
C-2.0

DRC
PZ22-12000027
10/01/2025

B.C.H.C.E.D. REF. NO. 200617002

DRC
PZ22-12000027
12/03/2025

CONSTRUCTION PLANS
FOR
FESTIVAL MARKETPLACE

2900 W SAMPLE ROAD
POMPANO BEACH, FLORIDA
SECTION 21, TOWNSHIP 48 SOUTH, RANGE 42 EAST
FOLIO ID # 4842.21.07.0010

OWNER/ DEVELOPER
FESTIVAL REAL ESTATE, LLC.
696 NE 125th Street
NORTH MIAMI, FLORIDA 33161

CIVIL ENGINEER/ LAND PLANNER
URBN DESIGN
696 N.E. 125TH STREET
NORTH MIAMI, FLORIDA 33161
(321) 217-6247
ATTN. CHRISTOPHER P. COLLINS, P.E.

SURVEYOR
MILLER LEGG
2005 VISTA PARKWAY, SUITE 100
WEST PALM BEACH, FL 33411
Office: (561) 689-1138
Fax: (561) 689-8108
ATTN. MARTIN P. ROSSI, PSM

ARCHITECT
A.J. COHEN & ASSOCIATES
7430 CARMELA WAY
DELRAY BEACH, FLORIDA 33446
(305) 299-7843
ATTN. ALVIN JAY COHEN, R.A.

TRAFFIC ENGINEER
WHITEHOUSE GROUP INC.
TAMPA, FLORIDA 33602
(813) 359-8770
ATTN. VICKY L. CASTRO P.E.

LANDSCAPE ARCHITECT
THOMAS ENGINEERING GROUP
6300 NW 31ST AVENUE
FORT LAUDERDALE, FL 33309
(954) 202-7000
ATTN: MICHAEL D. GROSSWIRTH, R.L.A.

ELECTRIC SERVICE
FLORIDA POWER & LIGHT
6195 N.W. 82nd AVENUE
MIAMI, FLORIDA 33166
(305) 599-4023
ATTN. CARLOS ECHEGOYEN

TELEPHONE SERVICE
AT&T
9001 S.W. 24TH STREET
MIAMI, FLORIDA 33165
(305) 222-8729
ATTN. REGINALD BARIL

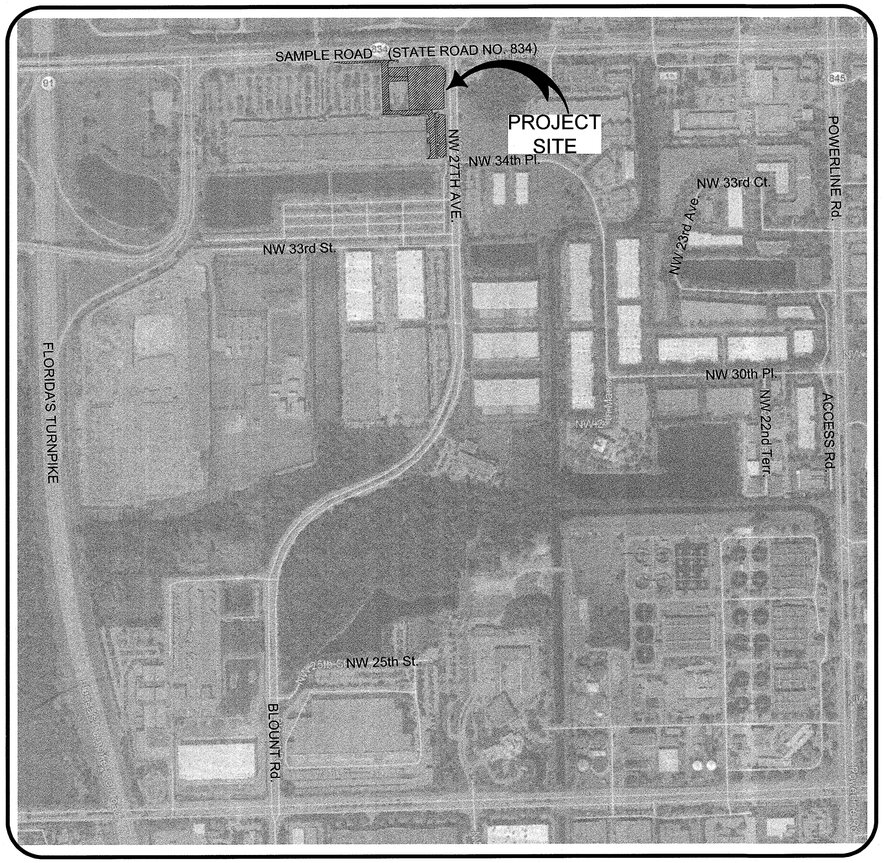
WATER & SEWER
BROWARD COUNTY WATER AND WASTEWATER ENGINEERING DIVISION
2555 WEST COPANS ROAD
POMPANO BEACH, FLORIDA 33369
(954) 831-0745

PERMITTING AGENCIES
BROWARD COUNTY PLANNING AND DEVELOPMENT MANAGEMENT DIVISION
1 N. UNIVERSITY DR.
PLANTATION, FLORIDA 33324
(954) 357-6634

BROWARD COUNTY ENVIRONMENTAL ENGINEERING AND PERMITTING
1 N. UNIVERSITY DR., SUITE 201
PLANTATION, FLORIDA 33324
(954) 519-1483

FLORIDA DEPARTMENT OF TRANSPORTATION
3400 WEST COMMERCIAL BOULEVARD
FORT LAUDERDALE, FLORIDA 33309
(954) 486-1400

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406
(561) 682-6979



BROWARD COUNTY, FLORIDA
SECTION 21, TOWNSHIP 48 SOUTH, RANGE 42 EAST

VICINITY MAP

SCALE: N.T.S.

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C-11.1	BROWARD COUNTY STANDARD DETAILS
C-12.0	FIRE TRUCK ACCESS PLAN

LEGAL DESCRIPTION

PARCEL 1: (FEE TITLE)

TRACTS A AND B, POMPANO INDUSTRIAL PARK THIRD ADDITION, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 111, PAGE 33, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, TOGETHER WITH ALL OF VACATED NORTHWEST 29TH AVENUE AND A PORTION OF VACATED NORTHWEST 34TH PLACE ADJOINING SAID TRACTS A AND B, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF SAID TRACT A; THENCE ALONG THE WEST BOUNDARY OF SAID TRACT A, NORTH 00 DEGREES 17' 02" EAST, 580.10 FEET; THENCE ALONG THE NORTHWEST BOUNDARY OF SAID TRACT A, NORTH 45 DEGREES 46' 47" EAST, 136.71 FEET; THENCE ALONG THE NORTH BOUNDARY OF SAID TRACT A, NORTH 85 DEGREES 27' 59" EAST, 292.89 FEET; THENCE CONTINUING ALONG SAID NORTH BOUNDARY, THE NORTH BOUNDARY OF NORTHWEST 29TH AVENUE VACATED BY ORDINANCE NO. 85-11 OF THE CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA, AND RECORDED IN OFFICIAL RECORDS BOOK 12186, PAGE 68, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, AND THE NORTH BOUNDARY OF SAID TRACT B, NORTH 89 DEGREES 41' 47" EAST, 1285.19 FEET; THENCE ALONG THE NORTHEAST BOUNDARY OF SAID TRACT B, SOUTH 44 DEGREES 59' 28" EAST, 49.77 FEET; THENCE ALONG THE EAST BOUNDARY OF SAID TRACT B AND THE EAST BOUNDARY OF NORTHWEST 34TH PLACE VACATED BY SAID ORDINANCE NO. 85-11 OF THE CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA, AND RECORDED IN OFFICIAL RECORDS BOOK 12186, PAGE 68, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, SOUTH 00 DEGREES 19' 17" WEST 661.16 FEET; THENCE SOUTH 89 DEGREES 41' 47" WEST, ALONG THE SOUTHERLY RIGHT-OF-WAY LINE OF SAID VACATED NORTHWEST 34TH PLACE, AND ALONG THE SOUTH BOUNDARY OF SAID TRACT A, 1709.50 FEET TO THE POINT OF BEGINNING.

URBN DESIGN
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NORTH MIAMI, FL 33161
Phone: 305.720.2079
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CHRISTOPHER PATRICK COLLINS LICENSE No. 73819 STATE OF FLORIDA PROFESSIONAL ENGINEER
CHRISTOPHER COLLINS, P.E. REG# 73819
3/11/2024

This item has been digitally signed and sealed by Christopher P. Collins, P.E. on the date adjacent to the seal.

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Designed by:	C.P.C.
Drawn by:	A.T.S.
Checked by:	C.P.C.
Approved by:	C.P.C.
Scale:	N.T.S.
Date:	05/25/2022
Job No.:	I002

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Plans for

FESTIVAL MARKETPLACE
2900 W SAMPLE ROAD
POMPANO BEACH, FLORIDA

COVER SHEET

Sheet No.
C-1.0

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

NOTICE
INSPECTION REQUIRED
24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A PERMIT FOR CONSTRUCTION MUST BE OBTAINED FROM THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION PRIOR TO COMMENCING CONSTRUCTION IN THE PUBLIC RIGHT OF WAY.

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS
☑ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE
BY: [signature] DATE: 7-25-24
DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKING & SIGNS

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10/01/2025