

SECTION: 86020000  
STATE ROAD: 5  
COUNTY: Broward  
PERMIT: 2023-L-491-00019

**AMENDMENT NUMBER THIRTY (30) TO  
FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT FOUR (4)  
INCLUSIVE LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT**

This is **Amendment Number Thirty (30)** to the Agreement dated December 5, 2007, made and entered into this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_ , by and between the **FLORIDA DEPARTMENT OF TRANSPORTATION**, a component agency of the State of Florida, hereinafter called the “**DEPARTMENT**”, and the **CITY OF POMPANO BEACH**, a municipal corporation of the State of Florida, hereinafter called the “**AGENCY**”.

**WHEREAS**, the parties entered into the Inclusive Landscape Maintenance Memorandum of Agreement dated December 5, 2007 (Original Agreement) for the purpose of the AGENCY maintaining the landscape improvements on various State Road(s) including **State Road 5 (North Federal Highway)**; and

**WHEREAS**, the DEPARTMENT and the AGENCY have agreed to amend the Original Agreement for the purpose of adding additional landscape improvements (Additional Improvements) on **State Road 5 (North Federal Highway)** in accordance with the Original Agreement; and

**NOW THEREFORE**, for and in consideration of mutual benefits that flow each to the other, the parties covenant and agree as follows:

1. Pursuant to paragraph 1, page 1 of Amendment Number Six (6) to the Original Agreement, dated August 9, 2013, the DEPARTMENT will allow an Adjacent Property Owner to construct additional landscape improvements or to modify an improvement located as indicated in **Exhibit “A”**, on State Road 5 (North Federal Highway) from M.P. 8.938 to M.P. 9.029, in accordance with the plans attached as **Exhibit “B”**.
2. The AGENCY shall agree to maintain the Additional Improvements (including irrigation and silva cells) according to Exhibit “F” Maintenance Plan of the Original Agreement, Amendment #21, and as follows:

**TREE CELL STRUCTURES**

Underground tree cells shall be maintained in such a manner as to prolong the life of the structure and prevent potential safety hazards. If the structures fail or become damaged, they shall be replaced with the same type and specification as the approved plan.

**PART II. SPECIFIC PROJECT SITE MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS:**

- A. The project consists of 6 canopy trees and sod within the right of way.
- B. Canopy Trees are intended to be maintained at 28' height and 20' spread with an 8' clear trunk minimum.
- C. Remove suckering growth from base and clear trunk areas for single trunked trees on a monthly basis.
- D. Evaluate plant material on a monthly basis for pests, diseases, drought stress or general decline. If required, follow the integrated pest management program established by the Agency to ensure healthy plants.
- E. Inspect the irrigation system performance on a monthly basis to ensure the system is providing 100% coverage, does not have sections of low pressure, heads and valves are clean and clear of debris and any damaged irrigation components (i.e., spray nozzles, spray heads, valve boxes, etc.) are repaired or replaced.

Except as modified by this Amendment, all terms and conditions of the original AGREEMENT shall remain in full force and effect.

**LIST OF EXHIBITS**

- Exhibit A – Landscape Improvements Maintenance Boundaries
- Exhibit B – Landscape Improvement Plan

In Witness whereof, the parties hereto have executed this Amendment effective the day and year first above written.

**CITY OF POMPANO BEACH**

See City Signature Page Attached

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Chairperson/Mayor/Manager

Attest: \_\_\_\_\_ (SEAL)  
Clerk

Legal Review: \_\_\_\_\_

**STATE OF FLORIDA**  
**DEPARTMENT OF TRANSPORTATION**

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Transportation Development Director

Attest: \_\_\_\_\_  
Executive Secretary

Legal Review: \_\_\_\_\_  
Office of the General Counsel

**“CITY”:**

**CITY OF POMPANO BEACH**

By: \_\_\_\_\_  
REX HARDIN, MAYOR

By: \_\_\_\_\_  
GREGORY P. HARRISON, CITY MANAGER

Attest:

Date: \_\_\_\_\_

\_\_\_\_\_  
KERVIN ALFRED  
CITY CLERK

(SEAL)

Approved As To Form:

\_\_\_\_\_  
MARK E. BERMAN  
CITY ATTORNEY

**SECTION: 86020000**  
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**EXHIBIT A**

**LANDSCAPE IMPROVEMENTS MAINTENANCE BOUNDARIES**

**I. LANDSCAPE MAINTENANCE LIMITS FOR AMENDMENT #30:**

State Road 5 (N. Federal Highway) from M.P. 8.938 to M.P. 9.029 (NE 4th St.)

See Attached Map\*

**II. INCLUSIVE AGREEMENT LIMITS FOR STATE ROAD 5 (US-1), PER ORIGINAL AGREEMENT AND AS AMENDED APRIL 9, 2021, WITH AMENDMENT #21:**

State Road 5 (US-1) from M.P. 7.262 (South of McNab Road) to M.P. 11.025

\*All limits of the Original Agreement and Amendments shall apply.

BEGIN PROJECT  
8.938

NORTH FEDERAL HIGHWAY

END PROJECT  
9.029

Right of way

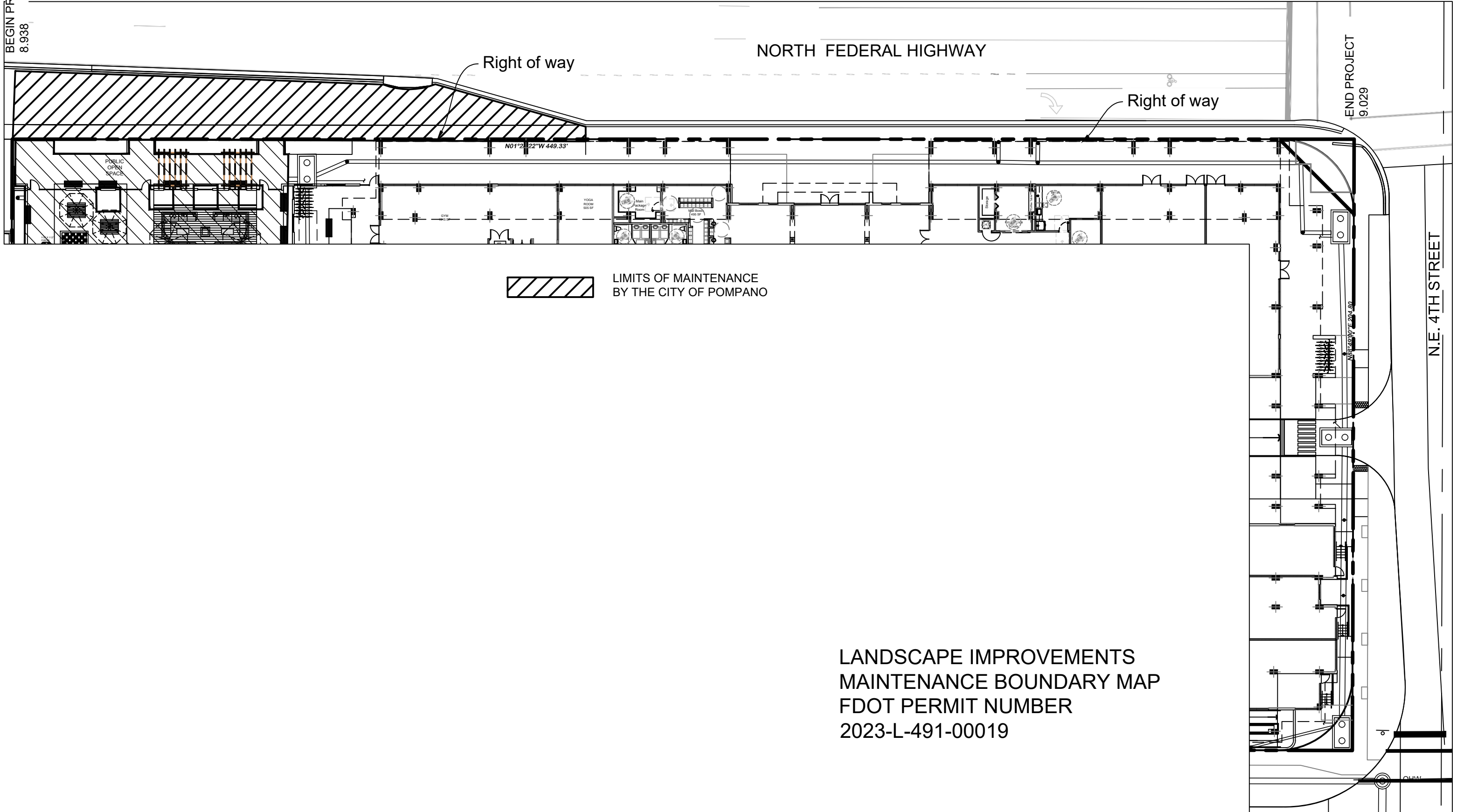
Right of way



LIMITS OF MAINTENANCE  
BY THE CITY OF POMPANO

LANDSCAPE IMPROVEMENTS  
MAINTENANCE BOUNDARY MAP  
FDOT PERMIT NUMBER  
2023-L-491-00019

N.E. 4TH STREET



**SECTION: 86020000**  
**STATE ROAD: 5**  
**COUNTY: Broward**  
**PERMIT: 2023-L-491-00019**

**EXHIBIT B**

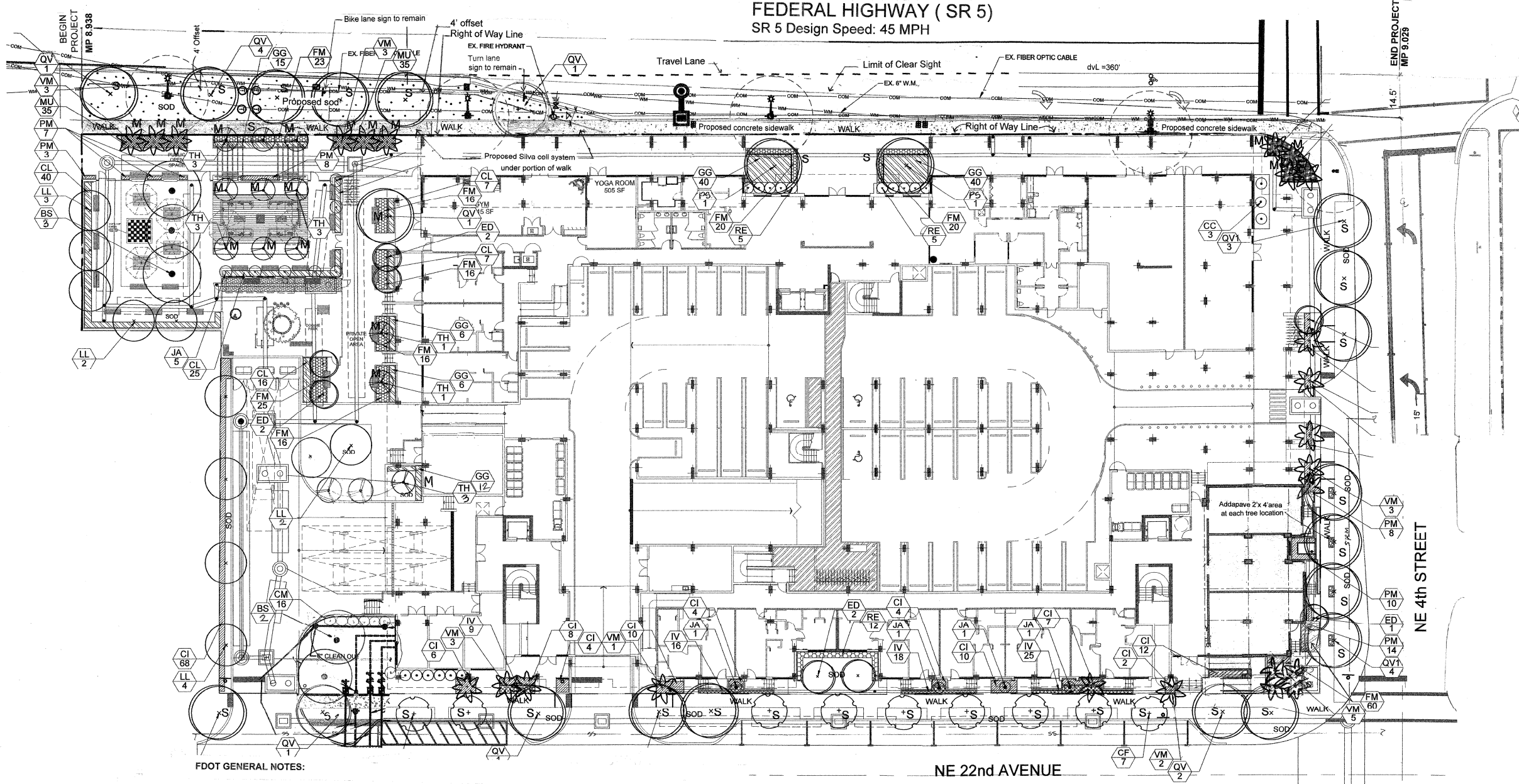
**LANDSCAPE IMPROVEMENT PLANS**

The AGENCY agrees to install the landscape improvements in accordance with the plans and specifications attached hereto and incorporated herein.

Please see attached plans prepared by: Kimberly Moyer Landscape Architecture  
and  
Kenneth DiDonato Consulting Engineer

Date: February 2024

FEDERAL HIGHWAY ( SR 5 )  
SR 5 Design Speed: 45 MPH



**FDOT GENERAL NOTES:**

1. GOVERNING STANDARD PLANS  
Florida Department of Transportation, FY 2023-24 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs) are available at the following website: <https://www.fdot.gov/design/standardplans>
2. GOVERNING STANDARD SPECIFICATIONS:  
Florida Department of Transportation, FY2023-24 Standard Specifications for Road and Bridge Construction at the following website: <https://www.fdot.gov/programmanagement/implemented/specbooks>
3. Contractor shall repair all damage done to FDOT property during demolition, relocation and/ or installation activities at his sole expense.
4. Any plant material substitution within or impacting the FDOT Right of Way whether requested by Contractor, Owner, Landscape Architect or other will need to obtain approval from the FDOT District Landscape Architect.
5. Ownership of all suitable excavated materials, as determined by the Department, shall remain in the Department until a final acceptance of the permitted project is fulfilled. Excavated materials shall be hauled by the Permittee, at their cost & expense from the site to the Broward Operations Center or stockpiled in those areas as directed by the Department, including asphalt millings.

**Plant List**

Sym	Qty	Botanical Name	Common Name	Size	Native
QV	6	Quercus virginiana	Live Oak	24' Ht. x 13' Spr., 9" cal. 8.5' CT	Yes
VM	6	Veitchia montgomeryana	Montgomery Palm	8.5' CT	No
TH	3	Tabebuia heterophylla	Pink Tabebuia	14' Ht., 8.5' CT	No

Note: Trees shall be maintained with an 8.5' vertical clearance off of sidewalk and a 14.5' vertical clearance off of roadway.

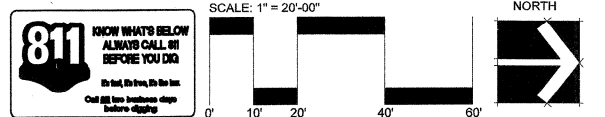
**NOTE: All landscape installation details shall meet or exceed Index 580-001.**

**FDOT PLANTING NOTES:**

1. For the portion of landscape plant material that will be installed within the FDOT Right of Way, landscape installation shall comply with current applicable FDOT Maintenance Specification 580. On line reference: [ssm580000wd-722-117992.pdf \(windows.net\)](https://www.fdot.com/online/580-001.pdf)
2. For the portion of landscape material that will be installed within the FDOT Right of Way refer to the FDOT Standard Plans Index 580-001 Landscape Installation. On line reference: <https://dotwww.blob.core.windows.net/sitefinity/docs/default-source/design/standardplans/2023/idx/580-001.pdf>
3. Cypress mulch is not permitted on FDOT right of way. Mulch permitted to be used are hardwood mulch (containing no cypress products), recycled mulch or approved equal certified by the Mulch and Soil Council (MSC). Submit proof of certification to the FDOT District Operations Permit Landscape Inspector upon inspection.
4. Sodded areas will be in accordance with Standard Plans Index 570-010 and Standard Specification Sections 570,981,982,983 and 987 of the Department's latest edition of Governing Design Standards and Standard Specifications. All disturbed areas will be sodded within one (1) week of installation of said permitted work.

FDOT LANDSCAPE PERMIT  
NUMBER 2023-L-491-00019

**LANDSCAPE PLAN**



PROJECT No.:	REV. #	DATE
DESIGNED BY: K.M. DRAWN BY: K.M. CHECKED BY: K.M. ISSUE DATE: 11-12-2021 DRAWING SCALE: AS SHOWN	1	01-07-2022 PLANTING AND SITE PLAN REV.
	2	03-16-2022 PLANTING AND SITE PLAN REV.
	3	03-25-2022 PLANTING AND SITE PLAN REV.
	4	04-21-2022 PLANTING AND SITE PLAN REV.
	5	07-14-2022 PLANTING AND SITE PLAN REV.
	6	10-14-2022 PLANTING AND SITE PLAN REV.
	7	03-02-2023 PLANTING AND SITE PLAN REV.
	8	3/24/2023
	9	6/7/2023
	10	2/19/2024

**208 NORTH FEDERAL HWY**  
POMPANO BEACH, FL. 33062



Kimberly Moyer, RLA  
Landscape Architecture  
(954) 592-3695  
Lic. No. #LA0000952

Kimberly Moyer  
Digitally signed by Kimberly Moyer  
Date: 2024.02.19 14:57:02 -05'00'

**GROUND LEVEL LANDSCAPE PLAN**

SHEET No: **L-1**



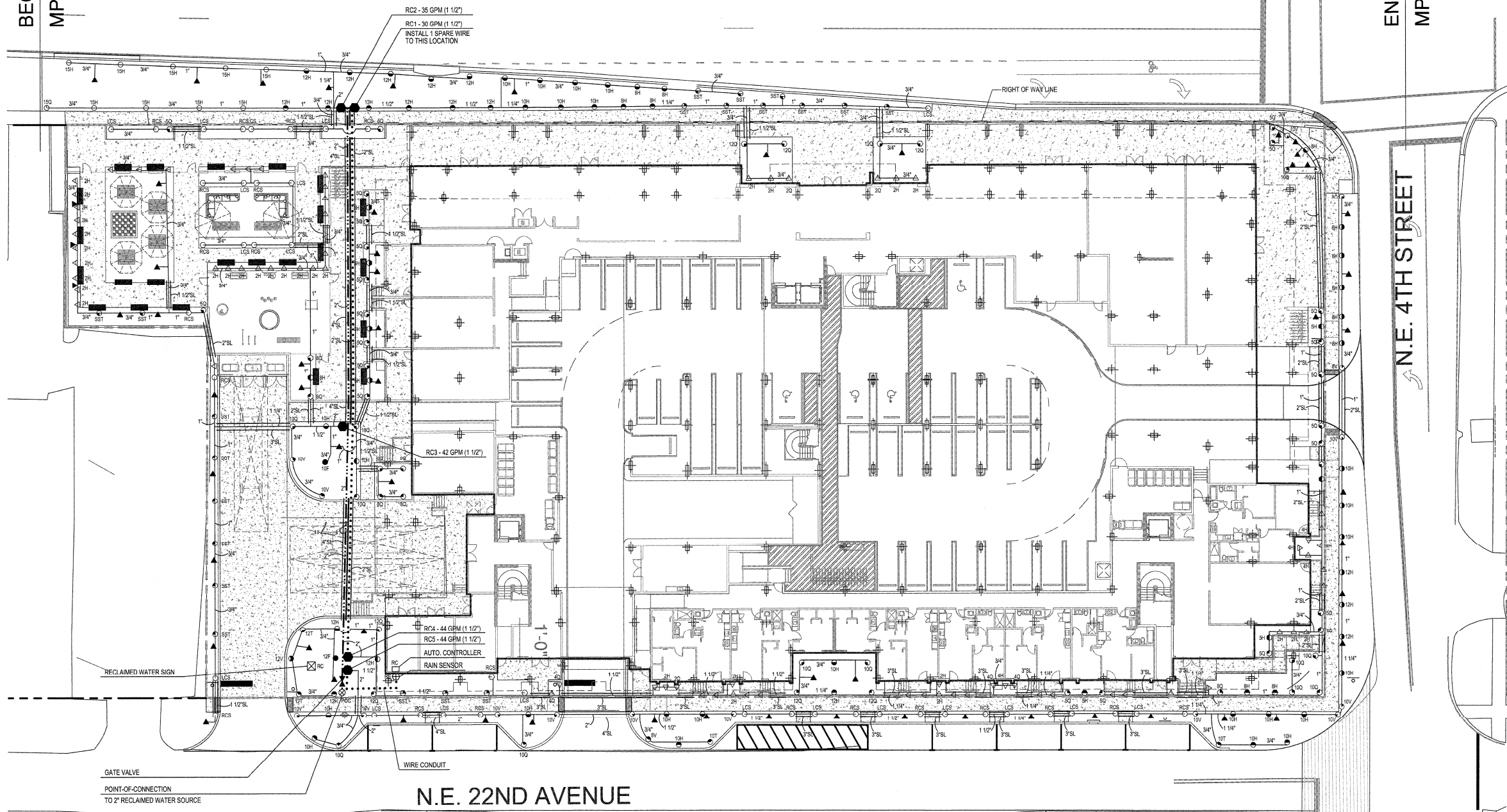
NORTH FEDERAL HIGHWAY

S.R. NO. 5 (US-1)

90' PUBLIC RIGHT-OF-WAY PER FDOT  
PUBLIC RIGHT-OF-WAY MAP SECTION 86020-2524  
SHEET 7 OF 9  
FORTH AVENUE (P)  
(60' PUBLIC RIGHT-OF-WAY)

BEGIN PROJECT  
MP 8.938

END PROJECT  
MP 9.029



GATE VALVE  
POINT-OF-CONNECTION  
TO 2\"/>

NOTE  
ALL IRRIGATION EQUIPMENT (INCLUDING PIPING, HEADS, RISERS, AND VALVE BOXES)  
INSTALLED AS PART OF THE RECLAIMED WATER IRRIGATION SYSTEM SHALL BE  
PURPLE IN COLOR. WARNING SIGNAGE SHALL BE POSTED FOR THE RECLAIMED WATER.  
SEE LOCATION NOTED ON PLAN.

- FDOT IRRIGATION NOTES**
1. The Irrigation system shall use the lowest quality water available which adequately and safely meets the water needs of the system. Storm water, reclaim water or grey water irrigation shall be used whenever possible.
  2. The FDOT requires 24 hour emergency access to water source.
  3. Contractor shall provide the FDOT District Operations Manager with a set of As Built Irrigation plans.

N.E. 22ND AVENUE

N.E. 4TH STREET

FDOT LANDSCAPE PERMIT  
NUMBER 2023-L-491-00019

GROUND FLOOR  
SCALE: 1/16"= 1'-0"

Kenneth DiDonato, P.E.  
CONSULTING ENGINEER  
GOLF COURSE & COMMERCIAL IRRIGATION DESIGN  
2210 HOLLYWOOD BLVD., HOLLYWOOD, FLORIDA 33020  
(954) 923-2555

PROJECT TITLE : 208 NORTH FEDERAL HWY  
POMPANO BEACH, FLORIDA  
IRRIGATION PLAN

SEAL  
Ken DiDonato  
Kenneth DiDonato  
P.E. Lic. #20892

PROJECT NO. 2021-83  
DRAWN BY KMD  
DESIGNED BY KMD  
SCALE: 1/16"= 1'-0"  
DATE : NOVEMBER 2022  
DWG. NO. IR-1  
SHT. NO. of  
REVISIONS :  
4/5/2023  
2/16/2024

CFILE:

LEGEND (GROUND FLOOR - RECLAIMED WATER SYSTEM)

SYMBOL MODEL NO. DESCRIPTION \* EST. QUANTITY

▲ 1402 RAIN BIRD FLOOD BUBBLER 61

▲ PAB5-NP-5CST-B RAIN BIRD STREAM BUBBLER 27

▲ PAB5-NP-SQ-HLFR RAIN BIRD SPRAY BUBBLER 07

▲ PAB5-NP-SQ-HLFR RAIN BIRD SPRAY BUBBLER 38

○ 1806-NP-5Q RAIN BIRD 6" POP-UP SPRAY 01

○ 1806-NP-8V RAIN BIRD 6" POP-UP SPRAY 02

○ 1806-NP-8Q RAIN BIRD 6" POP-UP SPRAY 05

○ 1806-NP-8H RAIN BIRD 6" POP-UP SPRAY 09

○ 1806-NP-10V RAIN BIRD 6" POP-UP SPRAY 11

○ 1806-NP-10Q RAIN BIRD 6" POP-UP SPRAY 07

○ 1806-NP-10T RAIN BIRD 6" POP-UP SPRAY 02

○ 1806-NP-10H RAIN BIRD 6" POP-UP SPRAY 22

○ 1806-NP-10F RAIN BIRD 6" POP-UP SPRAY 01

○ 1806-NP-12Q RAIN BIRD 6" POP-UP SPRAY 04

○ 1806-NP-12T RAIN BIRD 6" POP-UP SPRAY 02

○ 1806-NP-12H RAIN BIRD 6" POP-UP SPRAY 19

○ 1806-NP-12F RAIN BIRD 6" POP-UP SPRAY 01

○ 1806-NP-15RCS RAIN BIRD 6" POP-UP SPRAY 12

○ 1806-NP-15LCS RAIN BIRD 6" POP-UP SPRAY 11

○ 1806-NP-15SST RAIN BIRD 6" POP-UP SPRAY 17

○ 1806-NP-15Q RAIN BIRD 6" POP-UP SPRAY 01

○ 1806-NP-15H RAIN BIRD 6" POP-UP SPRAY 09

○ 1812-NP-5Q RAIN BIRD 12" POP-UP SPRAY 21

○ 1812-NP-5H RAIN BIRD 12" POP-UP SPRAY 10

○ 1812-NP-8Q RAIN BIRD 12" POP-UP SPRAY 01

○ 1812-NP-8H RAIN BIRD 12" POP-UP SPRAY 04

○ 1812-NP-10V RAIN BIRD 12" POP-UP SPRAY 02

○ 1812-NP-10Q RAIN BIRD 12" POP-UP SPRAY 05

○ 1812-NP-12Q RAIN BIRD 12" POP-UP SPRAY 04

○ 1812-NP-15RCS RAIN BIRD 12" POP-UP SPRAY 09

○ 1812-NP-15LCS RAIN BIRD 12" POP-UP SPRAY 09

○ 1812-NP-15SST RAIN BIRD 12" POP-UP SPRAY 03

● 150-PESBR RAIN BIRD 1 1/2" SOLENOID VALVE 05

□ ESP-BLXME RAIN BIRD AUTO. CONTROLLER 01

⊗ RSD-BEX RAIN BIRD RAIN SENSOR 01

NOT SHOWN PAIGE THHN WIRE

#12 AWG COMMON 200 LF

#14 AWG CONTROL 800 LF

NOT SHOWN SCH 40 GALVANIZED STEEL AS REQUIRED

SCH 40 PVC

MAIN LINE 200 LF

LATERALS AS REQUIRED

SLEEVES AS REQUIRED

SPRINKLER RISERS AS REQUIRED

PVC FITTINGS AS REQUIRED

WIRE CONDUIT 200 LF

GATE VALVE 01

COLOR CODED VALVE BOX 06

GROUNDING LOCATION 01

POINT-OF-CONNECTION 01

RECLAIMED WATER SIGN 01

NOTES: ABOVE QUANTITIES ARE FOR COMPARISON ONLY. CONTRACTOR SHALL VERIFY PRIOR TO SUBMITTING BID. ALL EQUIPMENT IN THIS SYSTEM SHALL BE COLOR CODED TO INDICATE THAT RECLAIMED WATER IS BEING USED.

ZONE SUMMARY CHART

STA VALVE SPRINKLER VALVE WATER RUN WEEKLY

NO.	TYPE	SIZE	DEMAND	*TIME	USAGE
1	RC1	SPRAY	1 1/2"	30 GPM	40 MIN/WK 1,200 GAL/WK
2	RC2	SPRAY	1 1/2"	35 GPM	40 MIN/WK 1,400 GAL/WK
3	RC3	SPRAY	1 1/2"	42 GPM	40 MIN/WK 1,680 GAL/WK
4	RC4	SPRAY	1 1/2"	44 GPM	40 MIN/WK 1,760 GAL/WK
5	RCS	SPRAY	1 1/2"	44 GPM	40 MIN/WK 1,760 GAL/WK
6-8	SPARE				

200 MIN/WK 7,800 GAL/WK

\*APPROXIMATE RUN TIME TO APPLY 1.0 IN/WK.

LEGEND (SIXTH FLOOR - CITY WATER SYSTEM)

SYMBOL MODEL NO. DESCRIPTION \* EST. QUANTITY

▲ 1404 RAIN BIRD FLOOD BUBBLER 08

▲ PAB5-SQ-QTR RAIN BIRD SPRAY BUBBLER 21

▲ PAB5-SQ-HLFR RAIN BIRD SPRAY BUBBLER 180

○ 1812-8V RAIN BIRD 12" POP-UP SPRAY 03

○ 1812-8Q RAIN BIRD 12" POP-UP SPRAY 05

○ 1812-8H RAIN BIRD 12" POP-UP SPRAY 02

○ 1812-8H RAIN BIRD 12" POP-UP SPRAY 33

● 150 PEB RAIN BIRD 1 1/2" SOLENOID VALVE 02

NOT SHOWN ESP-4ME RAIN BIRD AUTO. CONTROLLER 01

⊗ RSD-BEX RAIN BIRD RAIN SENSOR 01

NOT SHOWN #14 AWG PAIGE THHN WIRE AS REQUIRED

SCH 40 PVC AS REQUIRED

MAIN LINE

LATERALS

PIPE HUNG FROM SLAB

SPRINKLER RISERS

PIPE RISERS

WIRE CONDUIT RISER

PVC FITTINGS

SCH 40 PVC

GATE TYPE 01

BALL TYPE 12

VALVE BOX 15

GROUNDING LOCATION 01

NOT SHOWN BACKFLOW PREVENTER BY OTHERS

NOT SHOWN WATER SOURCE BY OTHERS

NOTE: ABOVE QUANTITIES ARE FOR COMPARISON ONLY. CONTRACTOR SHALL VERIFY PRIOR TO SUBMITTING BID.

ZONE SUMMARY CHART

STA VALVE SPRINKLER VALVE WATER RUN WEEKLY

NO.	TYPE	SIZE	DEMAND	*TIME	USAGE
1	CWB1	SPRAY	1 1/2"	28 GPM	40 MIN/WK 1,520 GAL/WK
2	CWB2	SPRAY	1 1/2"	28 GPM	40 MIN/WK 1,120 GAL/WK
3-4	SPARE				

80 MIN/WK 2,640 GAL/WK

\*APPROXIMATE RUN TIME TO APPLY 1.0 IN/WK.

IRRIGATION NOTES & SPECIFICATIONS

AUTOMATIC IRRIGATION SYSTEM WATER DEMAND ZONE REFER TO PLAN CITY WATER/RECLAIMED WATER PRESSURE REQUIRED 50 PSI

GENERAL

IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, CONTRACT SPECIFICATIONS, AND APPENDIX "F" OF THE FLORIDA BUILDING CODE.

IRRIGATION DESIGN BASED ON KIM MOYER 'LANDSCAPE PLANS' DATED OCTOBER 2022. CONTRACTOR SHALL REFER TO THIS PLAN TO COORDINATE SPRINKLER LOCATIONS AND PIPE ROUTING WITH NEW AND EXISTING PLANT LOCATIONS.

THIS IRRIGATION PLAN SHALL BE USED AS A GUIDE ONLY. CONTRACTOR SHALL INSTALL IRRIGATION TO MATCH ON SITE CONDITIONS AND TO OVERCOME THE INHERENT INACCURACIES THAT RESULT WHEN DESIGNING FROM BASE PLANS SCALED AT 1" = 16'.

THIS IRRIGATION HAS BEEN DESIGNED AS A TYPICAL BLOCK VALVE TYPE USING RAIN BIRD SPRINKLERS, IN-LINE VALVES AND CONTROL SYSTEM. WATER CONSERVATION EQUIPMENT SHALL BE INSTALLED.

THIS SITE SHALL BE IRRIGATED WITH 2 INDEPENDENT SYSTEMS. ALL LANDSCAPING LOCATED ON LEVEL SIX SHALL BE IRRIGATED WITH CITY WATER. ALL LANDSCAPING LOCATED AT THE SITE LEVEL SHALL BE IRRIGATED WITH RECLAIMED WATER. THE LOCATION OF THE POINT-OF-CONNECTION TO EACH WATER SOURCE SHALL BE VERIFIED ON SITE.

THE WATER SOURCE FOR THE CITY WATER SYSTEM SHALL BE PROVIDED BY OTHERS, AND SHALL BE LOCATED IN THE POOL PUMP ROOM ON THE FIFTH LEVEL.

BACKFLOW PREVENTION SHALL BE INSTALLED TO MEET LOCAL CODE REQUIREMENTS FOR CROSS CONNECTION CONTROL. BACKFLOW PREVENTION IN THE SYSTEM FOR THE SIXTH LEVEL SHALL BE INSTALLED BY OTHERS.

TO ENSURE PROPER OPERATION, PRESSURE REQUIRED, SOURCE SIZES, VALVE SIZE, ZONE CAPACITY, SPRINKLER SPACINGS, PIPE AND WIRE SIZES, INSTALLATION NOTES AND DETAILS, AND SPECIFICATIONS SHALL BE FOLLOWED AS SHOWN.

ALL EQUIPMENT INSTALLED IN THE RECLAIMED SYSTEM SHALL BE COLOR CODED PURPLE.

PIPING

PIPE ROUTING IS SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS.

PIPE SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND PIPE MANUFACTURER'S INSTRUCTIONS.

PIPE ROUTED UNDER HARDSCAPED AREAS SHALL BE SLEEVED IN SCH 40 PVC. EACH SLEEVE SHALL BE: (1) BURIED TO A MINIMUM DEPTH OF 18", (2) TWO PIPE SIZES LARGER THAN CARRIER PIPE, AND (3) EXTENDED 3' BEYOND HARDSCAPED AREA ON EACH END. CONTRACTOR SHALL VERIFY THE SIZE, DEPTH AND LOCATION OF ALL EXISTING SLEEVES.

PIPE AND FITTINGS INSTALLED ABOVE GRADE FOR BACKFLOW PREVENTION SHALL BE SCH 40 GALVANIZED STEEL. ALL OTHER PIPE AND FITTINGS SHALL BE SCH 40 TYPE 1120 PVC.

PIPE SIZED TO LIMIT FLOW VELOCITIES TO 5 FEET/SECOND AND TO LIMIT FRICTION LOSS IN THE PIPING NETWORK.

PIPE SHALL BE INSTALLED AT SUFFICIENT DEPTH BELOW GROUND TO PROTECT IT FROM HAZARD SUCH AS VEHICULAR TRAFFIC OR ROUTINE OCCURRENCES WHICH OCCUR IN THE NORMAL USE AND MAINTENANCE OF THE PROPERTY. DEPTHS OF COVER SHALL MEET OR EXCEED SCS CODE 430-DD. REFER TO THE APPLICABLE DETAIL FOR ADDITIONAL INFORMATION.

BACKFILL SHALL BE OF SUITABLE MATERIAL, FREE OF ROCKS, STONES, AND OTHER DEBRIS THAT WOULD DAMAGE IRRIGATION SYSTEM COMPONENTS.

BACKFLOW PREVENTION SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL CODES AND SHALL BE LOCATED TO BE CONCEALED FROM VIEW.

GATE AND BALL VALVES SHALL BE INSTALLED FOR ISOLATION. EACH VALVE SHALL BE INSTALLED PER BOX TO PROMOTE DRAINAGE.

ALL PIPE AND VALVE BOXES INSTALLED IN THE RECLAIMED WATER SYSTEM SHALL BE COLOR CODED PANTONE PURPLE.

PIPE HUNG FROM SLAB SHALL BE SCH 40 PVC WHICH SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE MECHANICAL SPECIFICATIONS. THE ROUTING OF HUNG PIPE SHALL BE VERIFIED ON SITE. CONTRACTOR SHALL VERIFY THAT INSTALLING SCH 40 PVC IS TO LOCAL CODES.

ALL PIPE RISERS THROUGH THE SLAB SHALL BE SCH 40 PVC WHICH SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE MECHANICAL SPECIFICATIONS. THE LOCATION OF EACH PENETRATION SHALL BE VERIFIED ON SITE AND ALL PENETRATIONS SHALL BE MADE WATERPROOF.

SPRINKLERS

SPRINKLER LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR LANDSCAPING, FENCES, SITE LIGHTING, PREVAILING WIND, MOUNDING, ETC., TO ENSURE PROPER COVERAGE WITH MINIMAL UNDESIRABLE OVERTHROW. A PRIME OBJECTIVE SHALL BE TO ELIMINATE OVERTHROW ONTO PAVEMENT, SIDEWALKS, AND BUILDINGS.

SPRAY HEADS SHALL BE RAIN BIRD 1800 SERIES. SIX INCH POP-UP TYPE SHALL BE INSTALLED IN AREAS LANDSCAPED WITH SOD AND MULCH. 12" POP-UP TYPE SHALL BE INSTALLED IN AREAS LANDSCAPED WITH GROUND COVER AND LOW SHRUBS. SHRUB HEADS SHALL BE INSTALLED IN AREAS LANDSCAPED WITH TALL SHRUBS, AND BUBBLERS SHALL BE INSTALLED IN NARROW LANDSCAPED AREAS.

POP-UP TYPE LOCATED IN SOD, MULCH, AND GROUND COVERS SHALL BE INSTALLED ON FLEXIBLE SWING JOINTS CONSISTING OF THICKWALLED POLY PIPE AND 1/2" INSFR FT RIGIDS.

POP-UP TYPE LOCATED IN SHRUBS SHALL BE INSTALLED ON 1/2" SCH 40 PVC RISERS TO A HEIGHT SO SPRINKLERS ARE CONCEALED FROM VIEW EXCEPT DURING USE.

SHRUBS TYPE AND BUBBLERS SHALL BE INSTALLED ON 1/2" SCH 40 PVC RISERS. SHRUB HEADS SHALL BE INSTALLED A STANDARD HEIGHT OF 6" ABOVE PLANTS AND SHALL BE INSTALLED WITHIN PLANTS TO BE CONCEALED FROM VIEW. BUBBLERS SHALL BE INSTALLED AT THE BASE OF PLANTS FOR LOW LEVEL WATERING. RISERS SHALL BE PAINTED FLAT BLACK TO BE LESS VISIBLE.

EACH SPRAY HEADS SHALL BE EQUIPPED WITH THE APPROPRIATE SPRAY NOZZLE AS INDICATED ON THE PLAN.

ADJUSTMENT FEATURES OF SPRINKLERS SPECIFIED SHALL BE UTILIZED TO ENSURE PROPER COVERAGE WITH MINIMAL UNDESIRABLE OVERTHROW. LOW ANGLE HEAD SPRAYS AND ADJUSTABLE ARC NOZZLES SHALL BE USED TO MINIMIZE OVERTHROW.

SPRINKLERS LOCATED ADJACENT TO HARDSCAPED AREAS SHALL BE INSTALLED AWAY FROM HARDSCAPED AREAS TO MINIMIZE OVERTHROW AND THE CHANCE OF DAMAGE BY VEHICLES, PEDESTRIANS, AND LAWN MAINTENANCE PERSONNEL. AS A GENERAL RULE, 6" POP-UP SPRAY HEADS SHALL BE INSTALLED IN 4", SHRUB HEADS SHALL BE INSTALLED IN 12".

ALL SPRINKLERS INSTALLED IN THE RECLAIMED WATER SYSTEM SHALL BE COLOR CODED PURPLE.

CONTROL SYSTEM

A RAIN BIRD ESP SERIES 24 VAC ELECTRIC CONTROL SYSTEM SHALL BE INSTALLED. FOR THE SITE SYSTEM, ONE 8 STATION CONTROLLER SHALL ACTIVATE 5 IN-LINE VALVES, FOR THE CITY WATER SYSTEM, ONE 4 STATION CONTROLLER SHALL ACTIVATE 2 IN-LINE VALVES. A RAIN SENSOR SHALL BE INSTALLED PER SYSTEM TO CONSERVE WATER.

CONTROLLERS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS. PROPER GROUNDING EQUIPMENT SHALL BE PROVIDED.

CONTROLLER LOCATIONS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE. A 110 VAC ELECTRIC SOURCE IS REQUIRED.

CONTROL LINES FROM AUTOMATIC CONTROLLERS TO IN-LINE AUTOMATIC VALVES SHALL BE #14 AWG THIN TYPE WHICH SHALL BE:

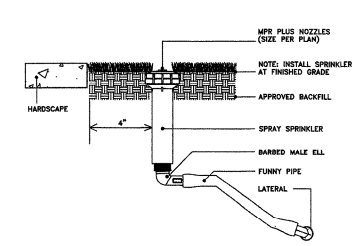
- (1) INSTALLED IN ACCORDANCE WITH LOCAL CODES, (2) INSTALLED IN SCH 40 PVC WIRE CONDUIT, (3) BURIED TO A MINIMUM DEPTH OF 15", (4) COLORED CODED TO FACILITATE TROUBLESHOOTING, AND (5) SPLICED MOSTLY AT VALVE LOCATIONS. SPLICES SHALL BE MADE WATERPROOF USING APPROVED METHODS. SPARE WIRES SHALL BE ROUTED FROM EACH CONTROLLER IN ALL DIRECTIONS TO THE FARTHEST VALVES CONTROLLED.

AUTOMATIC VALVE LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS. EACH VALVE SHALL BE INSTALLED IN A VALVE BOX. A MINIMUM OF ONE CUBIC FOOT OF GRAVEL SHALL BE PROVIDED PER BOX TO PROMOTE DRAINAGE. VALVE BOXES INSTALLED IN THE RECLAIMED WATER SYSTEM SHALL BE COLOR CODED.

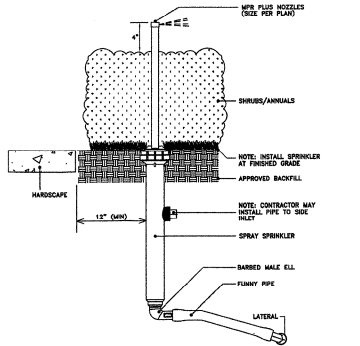
WATER CONSERVATION EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

TIMING AND PRECIPITATION

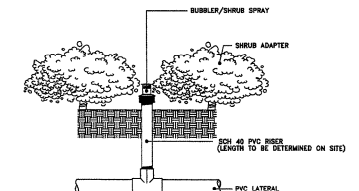
TIMING OF STATION SHALL BE SET IN THE FIELD TO MATCH LOCAL REQUIREMENTS, REFER TO ZONE SUMMARY CHART FOR RECOMMENDED RUN TIMES TO APPLY 1.0 INCHES/WEK.



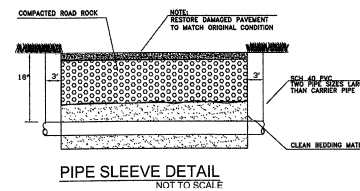
SPRINKLER DETAIL (NTS) POP-UP SPRAY ON POLY PIPE SWING JOINT LOCATED IN SOD OR MULCH



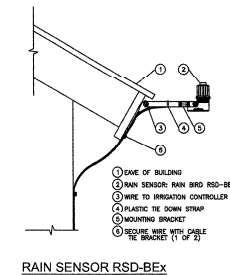
SPRINKLER DETAIL (NTS) 12" POP-UP SPRAY ON POLY PIPE SWING JOINT LOCATED IN PLANTS MAINTAINED TO A MAXIMUM HEIGHT OF 6"



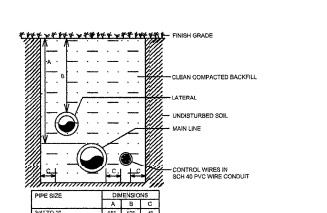
SPRINKLER DETAIL (NTS) BUBBLER/SHRUB SPRAY INSTALLED AT THE BASE OF PLANTS FOR LOW LEVEL WATERING



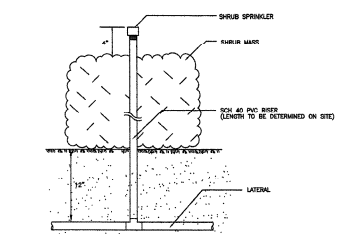
PIPE SLEEVE DETAIL NOT TO SCALE



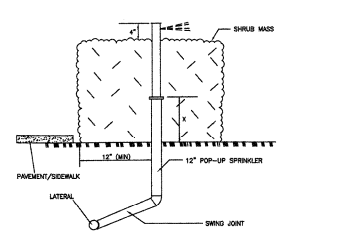
RAIN SENSOR RSD-BEX NOT TO SCALE



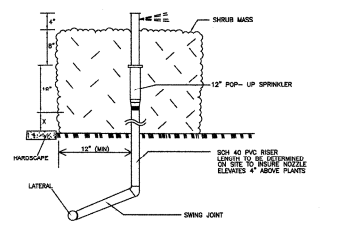
TRENCHING DETAIL (NTS) NON-Traffic AREAS



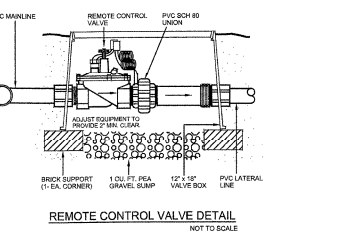
SPRINKLER DETAIL (NTS) SHRUB SPRAY ON RISER AT INTERIOR LOCATION IN PLANT MASS



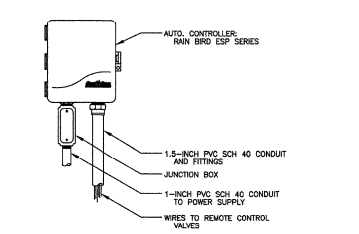
SPRINKLER DETAIL (NTS) 12" POP-UP INSTALLED ON PVC SWING JOINT LOCATED IN PLANT MASS MAINTAINED TO A MAXIMUM HEIGHT OF 18"



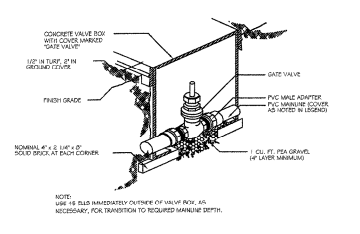
SPRINKLER DETAIL (NTS) 12" POP-UP ON PVC SWING JOINT WITH RISER LOCATED IN PLANT MASS MAINTAINED TO A MINIMUM HEIGHT OF 24"



REMOTE CONTROL VALVE DETAIL NOT TO SCALE



ESP AUTOMATIC CONTROLLER NOT TO SCALE



GATE VALVE DETAIL NOT TO SCALE

FDOT LANDSCAPE PERMIT NUMBER 2023-L-491-00019

PROJECT TITLE : 208 NORTH FEDERAL HWY  
POMPAHO BEACH, FLORIDA  
IRRIGATION LEGEND, NOTES, AND INSTALLATION DETAILS

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SEAL

PROJECT NO. 2021-83  
DRAWN BY KMD  
DESIGNED BY KMD  
SCALE: N.T.S  
DATE: NOVEMBER 2022  
DWG. NO. IR-3  
SHT. NO. of  
REVISIONS : 4/5/2023  
2/16/2024

FILE: