

**From:** [Sartori, Aline](#)  
**To:** [Ingrid Allen](#)  
**Subject:** RE: PB-1426 Proposed Minor Alterations - Request for NMR Letter  
**Date:** Tuesday, October 8, 2024 1:02:45 PM  
**Attachments:** [image004.png](#)  
[image008.png](#)  
[image009.png](#)

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Ingrid,

Thank you for sending me the sheet.

These modifications will not affect the validity of the permit.

Thanks,



**Aline Sartori**  
Office of Resilience and Coastal Protection  
Coastal Construction Control Line Program  
Environmental Specialist III  
[Aline.Sartori@FloridaDEP.gov](mailto:Aline.Sartori@FloridaDEP.gov)  
Office: 850-245-7531

---

**From:** Ingrid Allen <[iallen@highlandbeach.us](mailto:iallen@highlandbeach.us)>  
**Sent:** Tuesday, October 8, 2024 12:17 PM  
**To:** Sartori, Aline <[Aline.Sartori@FloridaDEP.gov](mailto:Aline.Sartori@FloridaDEP.gov)>  
**Subject:** RE: PB-1426 Proposed Minor Alterations - Request for NMR Letter

**EXTERNAL MESSAGE**

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Aline:

See attached newly proposed sheet IR-1 submitted to Town. As you can see, certain irrigation previously approved by FDEP that extends eastward of the dune area has now been removed. I just want to make sure that these modifications do not change the validity of FDEP's permit.

Thank you.



Sincerely,  
**Ingrid Allen**  
Town Planner

*Town of Highland Beach*  
3614 S. Ocean Boulevard  
Highland Beach FL 33487  
(561) 278-4540 Office (option 3)  
(561) 278-2606 Fax  
[www.highlandbeach.us](http://www.highlandbeach.us)

**PLEASE NOTE:** Florida has a very broad public records law. Most written communications to or from the Town of Highland Beach officials and employees regarding public business are public records available to the public and media upon request. Your e-mail communications may be subject to public disclosure. Under Florida law, e-mail addresses are public records. If you do not want your e-mail address released in response to a public records request, do not send electronic mail to this entity. Instead, contact this office by phone or in writing. The views expressed in this message may not necessarily reflect those of the Town of Highland Beach.

---

**From:** Sartori, Aline <Aline.Sartori@FloridaDEP.gov>  
**Sent:** Tuesday, October 8, 2024 11:27 AM  
**To:** Ingrid Allen <iallen@highlandbeach.us>  
**Subject:** RE: PB-1426 Proposed Minor Alterations - Request for NMR Letter

Good morning, Ingrid,

Could you please send me the new proposed sheet IR-1 submitted to the Town that includes the changes to the irrigation in the dune vegetation?

Thank you.

Best regards,



**Aline Sartori**  
Office of Resilience and Coastal Protection  
Coastal Construction Control Line Program  
Environmental Specialist III  
[Aline.Sartori@FloridaDEP.gov](mailto:Aline.Sartori@FloridaDEP.gov)  
Office: 850-245-7531

---

**From:** CCCL <[CCCL@dep.state.fl.us](mailto:CCCL@dep.state.fl.us)>  
**Sent:** Monday, October 7, 2024 1:30 PM  
**To:** Sartori, Aline <[Aline.Sartori@FloridaDEP.gov](mailto:Aline.Sartori@FloridaDEP.gov)>  
**Subject:** FW: PB-1426 Proposed Minor Alterations - Request for NMR Letter



**Derek Reed**  
Administrative Assistant I  
Office of Resilience and Coastal Protection  
Florida Dept. of Environmental Protection  
2600 Blair Stone Road MS #235  
Tallahassee, FL 32399-2400  
Office: (850)245-7567  
Email: [Derek.Reed@FloridaDEP.gov](mailto:Derek.Reed@FloridaDEP.gov)

---

**From:** Bonanno, Nathan <[Nathan.Bonanno@FloridaDEP.gov](mailto:Nathan.Bonanno@FloridaDEP.gov)>

**Sent:** Monday, October 7, 2024 1:27 PM  
**To:** Ingrid Allen <[iallen@highlandbeach.us](mailto:iallen@highlandbeach.us)>  
**Cc:** CCCL <[CCCL@dep.state.fl.us](mailto:CCCL@dep.state.fl.us)>  
**Subject:** RE: PB-1426 Proposed Minor Alterations - Request for NMR Letter

Good afternoon Ingrid,

I am no longer in the CCCL Program, so I am not the correct person to contact for this request.

I have tagged the CCCL inbox so that they can redirect this chain to the appropriate person to handle this request.

Feel free to reach out if you have any questions.

Thanks!



**Nathan Bonanno, M.S., E.I.**  
Florida Department of Environmental Protection  
Office of Resilience and Coastal Protection  
Coastal Engineering & Geology  
Engineering Specialist III  
[Nathan.bonanno@floridadep.gov](mailto:Nathan.bonanno@floridadep.gov)  
Office: 850-245-7623

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**From:** Ingrid Allen <[iallen@highlandbeach.us](mailto:iallen@highlandbeach.us)>  
**Sent:** Monday, October 7, 2024 1:10 PM  
**To:** Bonanno, Nathan <[Nathan.Bonanno@FloridaDEP.gov](mailto:Nathan.Bonanno@FloridaDEP.gov)>  
**Subject:** FW: PB-1426 Proposed Minor Alterations - Request for NMR Letter

**EXTERNAL MESSAGE**

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Nathan:

Regarding my email below, I forgot to attach the Landscape Plan previously approved by FDEP (see attached).



Sincerely,  
**Ingrid Allen**  
Town Planner

*Town of Highland Beach*  
3614 S. Ocean Boulevard  
Highland Beach FL 33487  
(561) 278-4540 Office (option 3)  
(561) 278-2606 Fax  
[www.highlandbeach.us](http://www.highlandbeach.us)

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**From:** Ingrid Allen  
**Sent:** Monday, October 7, 2024 12:57 PM  
**To:** Bonanno, Nathan <[nathan.bonanno@floridadep.gov](mailto:nathan.bonanno@floridadep.gov)>  
**Subject:** FW: PB-1426 Proposed Minor Alterations - Request for NMR Letter

Nathan:

Hoping you can assist regarding above-referenced permit. The applicant's Irrigation plan sheet IR-1 (see attached "Landscape Plan") which FDEP previously approved is now being revised by the Applicant. The newly proposed sheet IR-1 submitted to the Town (see attached) has changed whereby certain irrigation in the dune vegetation has now been removed. Kindly advise if this removal affects the validity of the permit.

Thank you.



Sincerely,  
**Ingrid Allen**  
Town Planner

*Town of Highland Beach*  
3614 S. Ocean Boulevard  
Highland Beach FL 33487  
(561) 278-4540 Office (option 3)  
(561) 278-2606 Fax  
[www.highlandbeach.us](http://www.highlandbeach.us)

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**From:** Mark Hunley <[mark@charettearch.com](mailto:mark@charettearch.com)>  
**Sent:** Thursday, October 3, 2024 9:51 AM  
**To:** Ingrid Allen <[iallen@highlandbeach.us](mailto:iallen@highlandbeach.us)>  
**Subject:** FW: PB-1426 Proposed Minor Alterations - Request for NMR Letter

Email chain below.

Thank you,

MARK HUNLEY  
ARCHITECT/PARTNER  
CHARETTE INTERNATIONAL ARCHITECTURE

954-809-9802  
[MARK@CHARETTEARCH.COM](mailto:MARK@CHARETTEARCH.COM)

551 NW 77<sup>th</sup> St Suite 107  
Boca Raton, FL 33487

*Thank you for using email, it is the best way for us to accurately interpret, respond, share and archive client comments and information.*

---

**From:** Mark Powell <[mpowell@coastal-engineers.com](mailto:mpowell@coastal-engineers.com)>  
**Sent:** Friday, March 29, 2024 11:59 AM  
**To:** Mark Hunley <[mark@charettearch.com](mailto:mark@charettearch.com)>  
**Subject:** FW: PB-1426 Proposed Minor Alterations - Request for NMR Letter

Mark,

The request for DEP approval was just sent in. We should receive a response within 30 days.

Have a great weekend. Thanks,

Mark A. Powell, P.E.



Isiminger & Stubbs Engineering, Inc.  
Registry Number: 8114  
649 US Highway 1, Suite 9  
North Palm Beach, FL 33408  
561-881-0003  
e-mail: [mpowell@coastal-engineers.com](mailto:mpowell@coastal-engineers.com)  
[www.coastal-engineers.com](http://www.coastal-engineers.com)

Attention:

This email and any files transmitted with it from Isiminger & Stubbs Engineering, Inc., are preliminary unless signed and sealed and are confidential and intended solely for use by the individual or entity to whom they are addressed. If you have received this email in error, please immediately notify the sender.

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**From:** Mark Powell  
**Sent:** Friday, March 29, 2024 11:52 AM  
**To:** CCCL <[cccl@dep.state.fl.us](mailto:cccl@dep.state.fl.us)>  
**Cc:** Jackson, Celora A. <[Celora.A.Jackson@FloridaDEP.gov](mailto:Celora.A.Jackson@FloridaDEP.gov)>  
**Subject:** PB-1426 Proposed Minor Alterations - Request for NMR Letter

Good morning Celora,

As a follow up to the referenced project, the owner has decided to make minor changes to the permitted residence as shown in the attached digitally signed and sealed architectural plans. Specifically, the revised house is slightly smaller in the shore-perpendicular dimension and has been relocated landward resulting in a reduction in the seaward dimension (measured perpendicular to the 1997 CCC) of approximately 9 ft compared to the previous DEP-approved plans. Due to these changes, there is less excavation required (339 cy vs 347 cy) seaward of the CCCL as shown in the attached digitally signed and sealed grading plan. Additionally, the landscape plans (attached) have been modified to show the revised house location. Finally, no changes to the approved exterior lighting plans are currently proposed. In summary, we believe the proposed modifications are minor and reduce any potential impacts to the dune and beach system. If acceptable, please approve the attached plans and issue a "No Permit Modification Required" (NMR) letter at your earliest convenience.

Please feel free to contact me if you have any questions.

Mark A. Powell, P.E.



Isiminger & Stubbs Engineering, Inc.

Registry Number: 8114

649 US Highway 1, Suite 9

North Palm Beach, FL 33408

561-881-0003

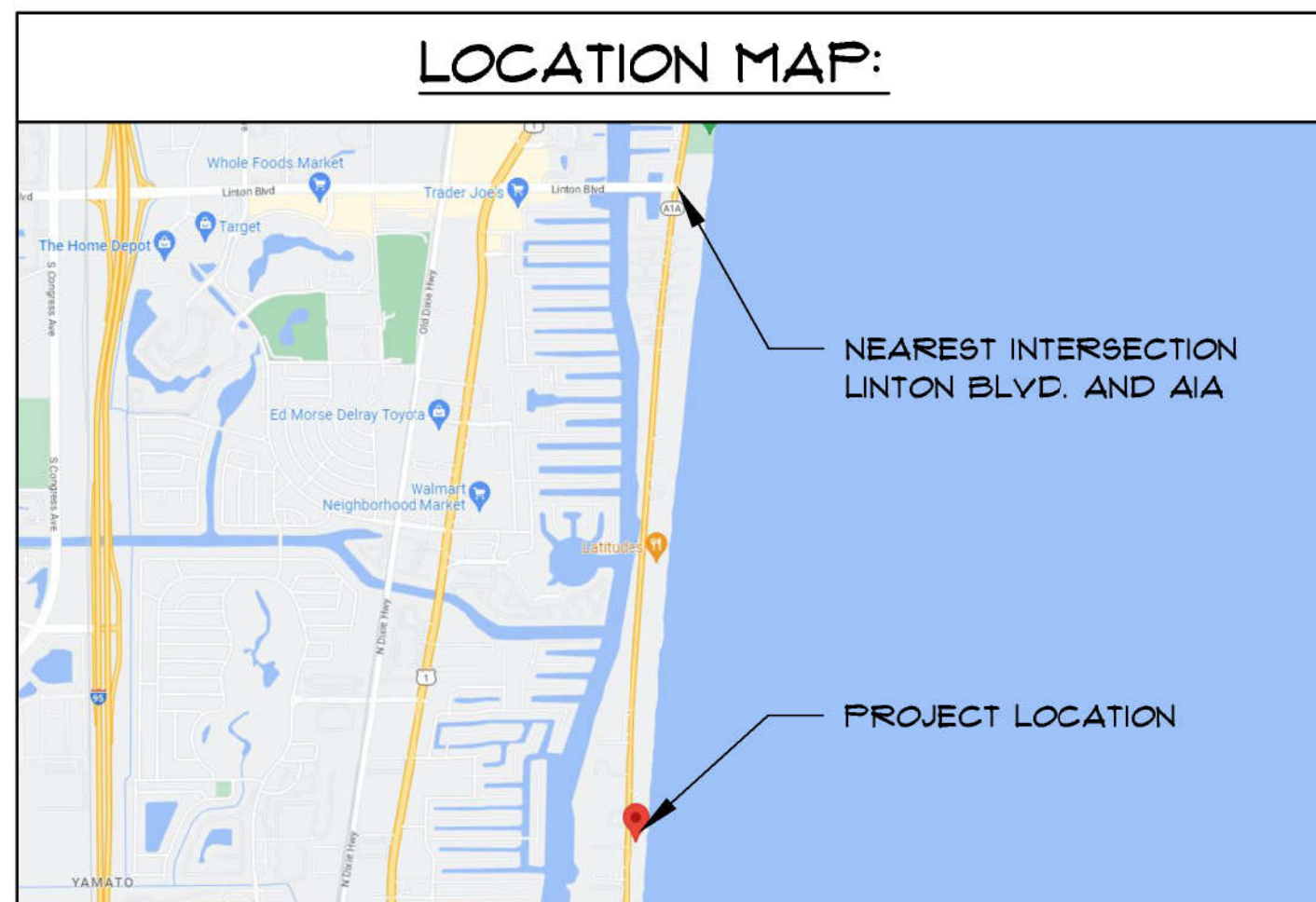
e-mail: [mpowell@coastal-engineers.com](mailto:mpowell@coastal-engineers.com)

[www.coastal-engineers.com](http://www.coastal-engineers.com)

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**FDOT ROADWAY INFORMATION**

-STATE ROAD A1A (SOUTH OCEAN BLVD.)	-SIGHT DISTANCE DESIGN CRITERIA
-ROADWAY ID: 9306000	-DESIGN SPEED 35 MPH
-35 MPH DESIGN SPEED	-PASSENGER VEHICLE
	-D: 390
	-DL: 215
	-DR: 115

**DESIGN PROFESSIONALS**

<b>LANDSCAPE ARCHITECT</b> MICHAEL FLAUGH LA 3744 SE OCEAN BLVD. STUART FL, 34996	<b>IRRIGATION DESIGNER</b> ROY TVEITE RT IRRIGATION DESIGN P.O. BOX 650622 VERO BEACH FL, 32965
--------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

**LOCAL OFFICIAL**

**HIGHLAND BEACH  
TOWN PLANNER**  
INGRID ALLEN  
3614 SOUTH OCEAN BLVD.  
HIGHLAND BEACH, FL 33487

**TABLE OF CONTENTS:**

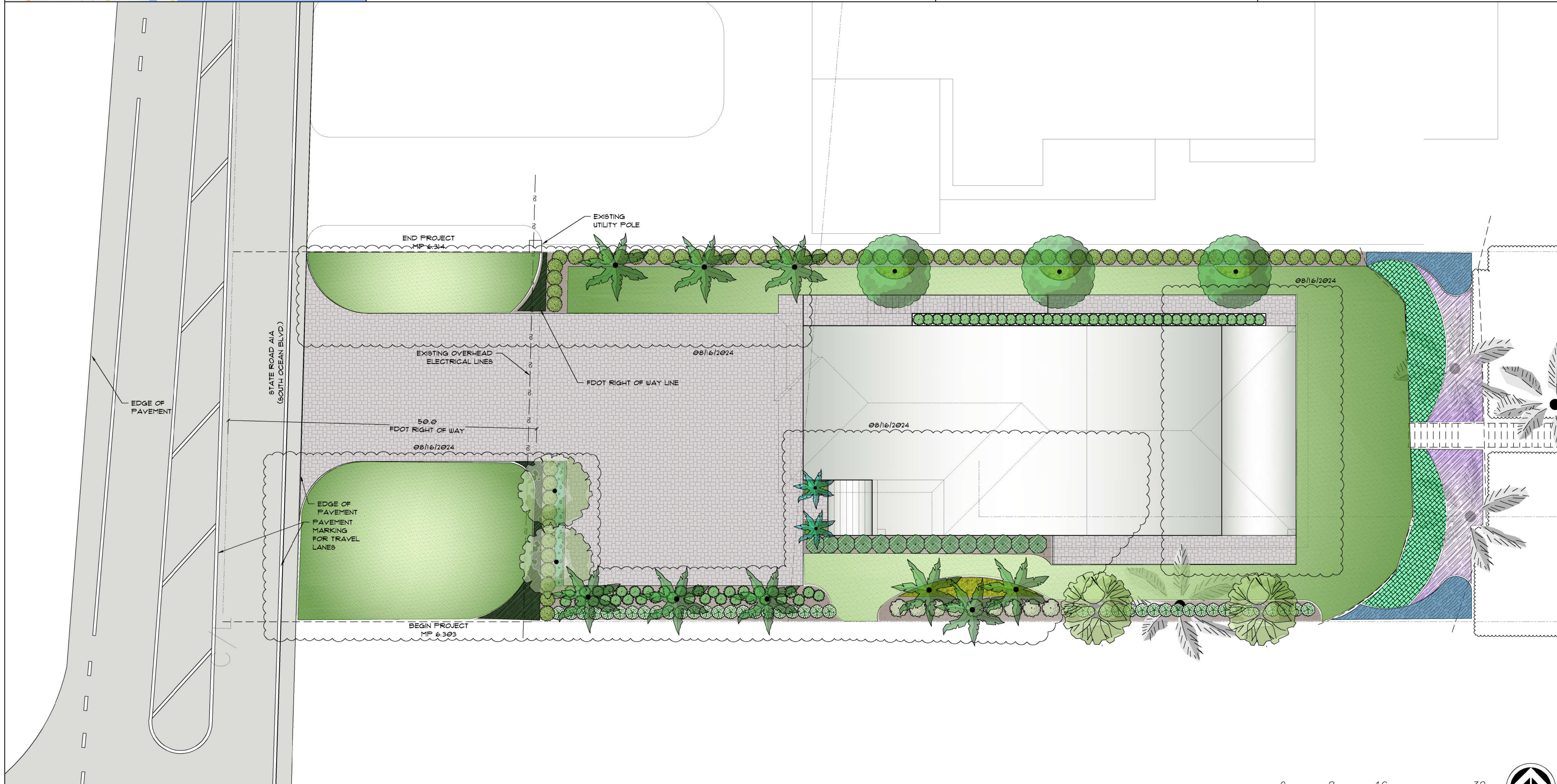
T1 - TITLE SHEET
L1 - SITEWORK PLAN
L2 - PLANTING PLAN
L3 - PLANT SCHEDULE / PLANT PICTURES
L4 - PLANTING DETAILS AND SPECIFICATIONS

IR-1 IRRIGATION PLAN
IR-2 IRRIGATION DETAILS
IR-3 IRRIGATION DETAILS

Michael Flaugh  
LANDSCAPE ARCHITECT

FL Reg. #L-0001726  
772.419.0024  
Stuart  
Houzz.com/profile/Michael-Flaugh www.MichaelFlaugh.com



Sheet  
T1  
Title Sheet

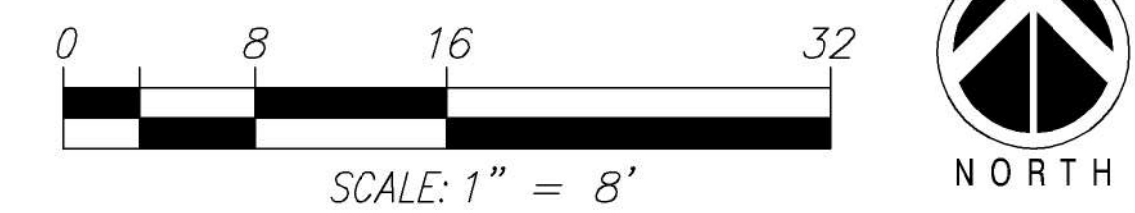
**Landscape Plan  
NEW RESIDENCE**  
3521 S Ocean Blvd., Highland Beach, FL 33487

Please note: This plan is a professional interpretation of existing and proposed site elements based on multiple sources of information. These sources may include property surveys, architectural plans, photographs, photographs and site plans. At times, these supporting documents are inaccurate or approximate or approximations to the design during installation are necessary. It is the contractor's responsibility to verify all measurements and quantities prior to commencing work.

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BEFORE YOU DIG

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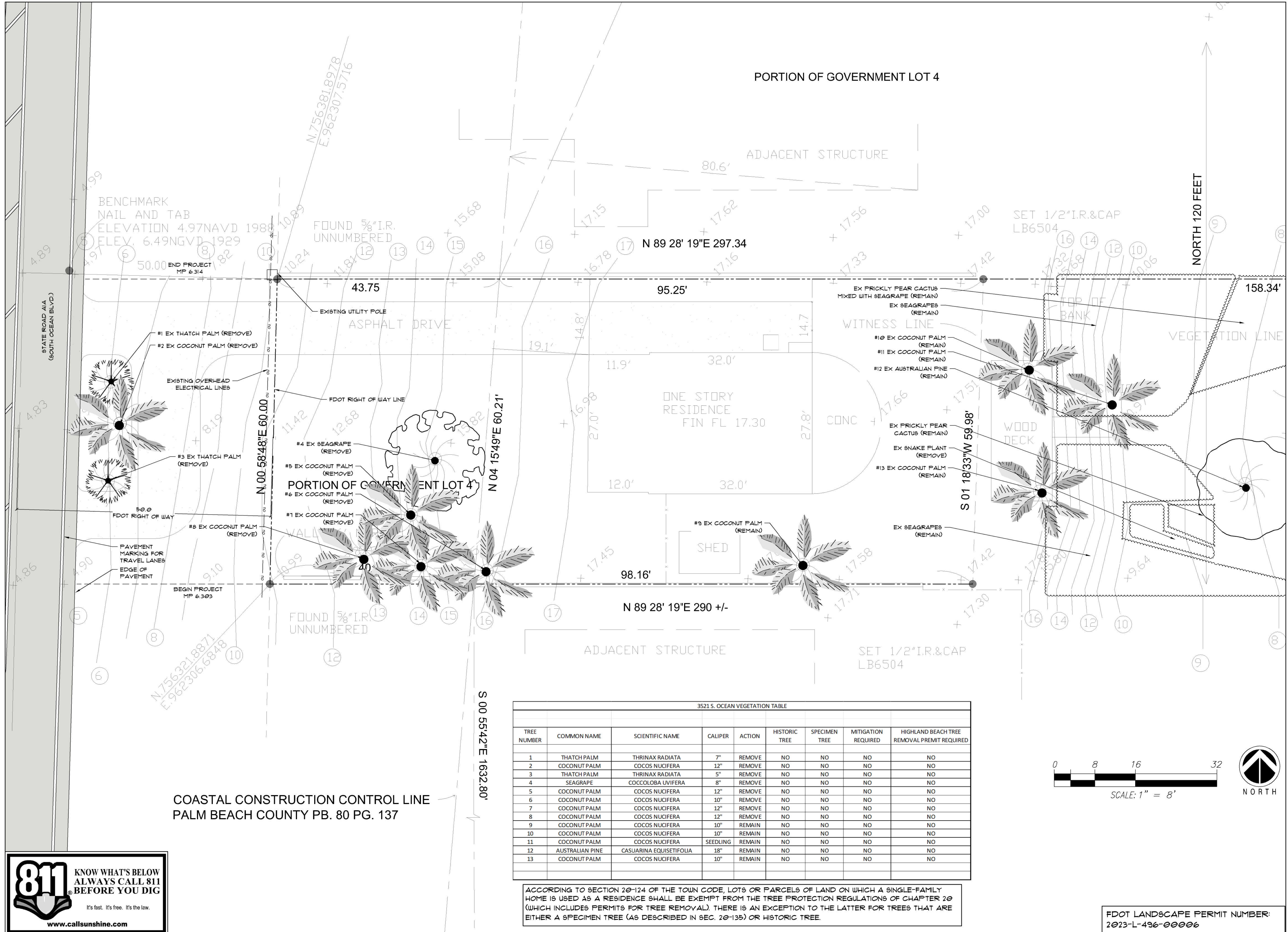
FDOT LANDSCAPE PERMIT NUMBER:  
2023-L-496-00006

Date: 07/27/2021  
Design by: MF,PA  
Reviewed by: MF  
Scale: 1"=8'  
Revised: 08/17/2021  
08/24/2023, 07/26/2024, 07/07/2024,  
08/14/2024

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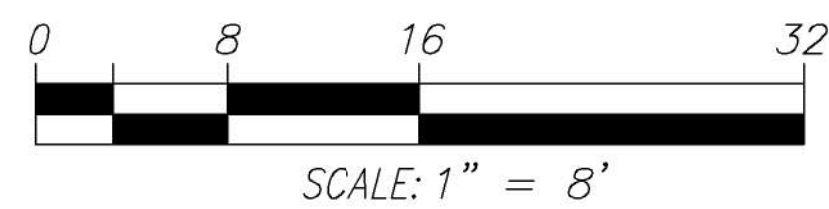
Date: 07/27/2021  
Design by: MF,PA  
Reviewed by: MF  
Scale: 1"=8'  
Revised: 08/17/2021  
09/08/2023, 07/26/2024, 07/09/2024,  
08/14/2024



3521 S. OCEAN VEGETATION TABLE

TREE NUMBER	COMMON NAME	SCIENTIFIC NAME	CALIPER	ACTION	HISTORIC TREE	SPECIMEN TREE	MITIGATION REQUIRED	HIGHLAND BEACH TREE REMOVAL PERMIT REQUIRED
1	THATCH PALM	THRINAX RADIATA	7"	REMOVE	NO	NO	NO	NO
2	COCONUT PALM	COCOS NUCIFERA	12"	REMOVE	NO	NO	NO	NO
3	THATCH PALM	THRINAX RADIATA	5"	REMOVE	NO	NO	NO	NO
4	SEAGRAPE	COCCOLOBA UVIFERA	8"	REMOVE	NO	NO	NO	NO
5	COCONUT PALM	COCOS NUCIFERA	12"	REMOVE	NO	NO	NO	NO
6	COCONUT PALM	COCOS NUCIFERA	10"	REMOVE	NO	NO	NO	NO
7	COCONUT PALM	COCOS NUCIFERA	12"	REMOVE	NO	NO	NO	NO
8	COCONUT PALM	COCOS NUCIFERA	12"	REMOVE	NO	NO	NO	NO
9	COCONUT PALM	COCOS NUCIFERA	10"	REMAIN	NO	NO	NO	NO
10	COCONUT PALM	COCOS NUCIFERA	10"	REMAIN	NO	NO	NO	NO
11	COCONUT PALM	COCOS NUCIFERA	SEEDLING	REMAIN	NO	NO	NO	NO
12	AUSTRALIAN PINE	CASUARINA EQUISETIFOLIA	18"	REMAIN	NO	NO	NO	NO
13	COCONUT PALM	COCOS NUCIFERA	10"	REMAIN	NO	NO	NO	NO

ACCORDING TO SECTION 20-124 OF THE TOWN CODE, LOTS OR PARCELS OF LAND ON WHICH A SINGLE-FAMILY HOME IS USED AS A RESIDENCE SHALL BE EXEMPT FROM THE TREE PROTECTION REGULATIONS OF CHAPTER 20 (WHICH INCLUDES PERMITS FOR TREE REMOVAL). THERE IS AN EXCEPTION TO THE LATTER FOR TREES THAT ARE EITHER A SPECIMEN TREE (AS DESCRIBED IN SEC. 20-135) OR HISTORIC TREE.



FDOT LANDSCAPE PERMIT NUMBER:  
2023-L-496-00006

COASTAL CONSTRUCTION CONTROL LINE  
PALM BEACH COUNTY PB. 80 PG. 137

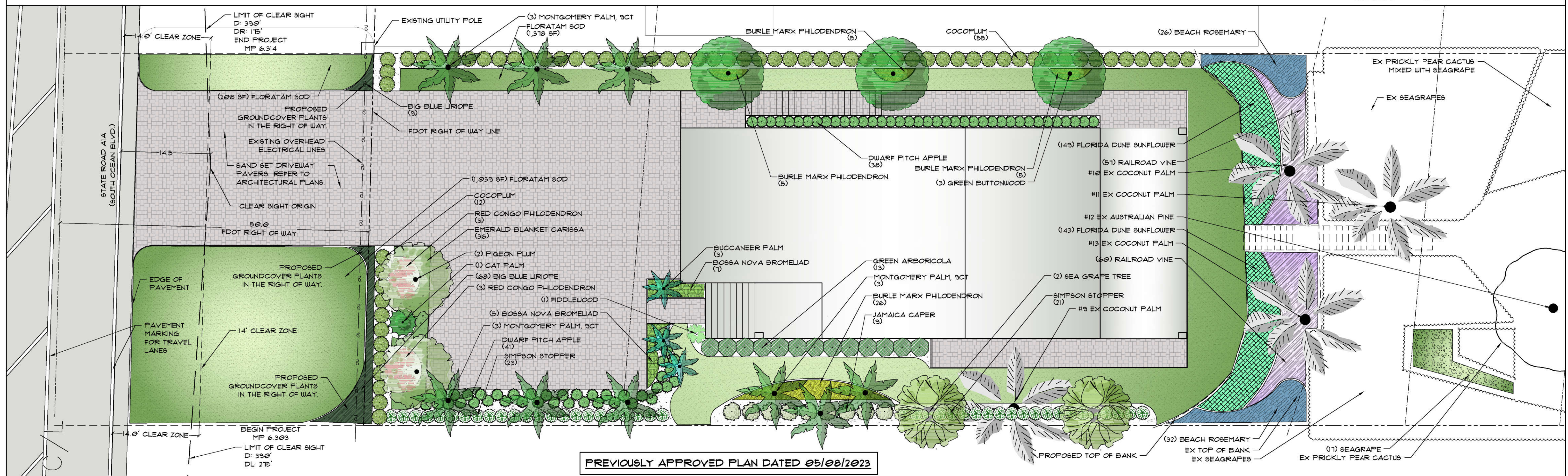
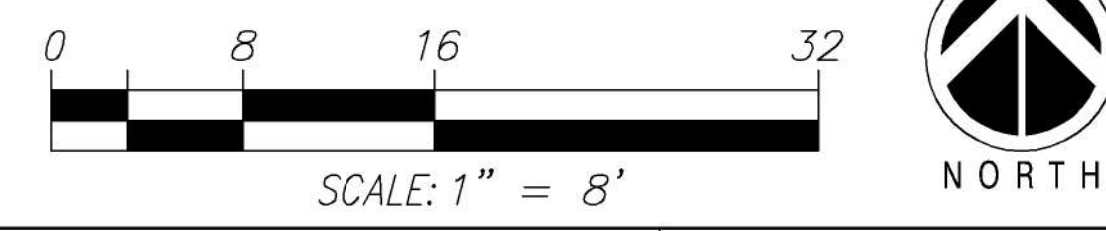


**FDOT GENERAL NOTES**

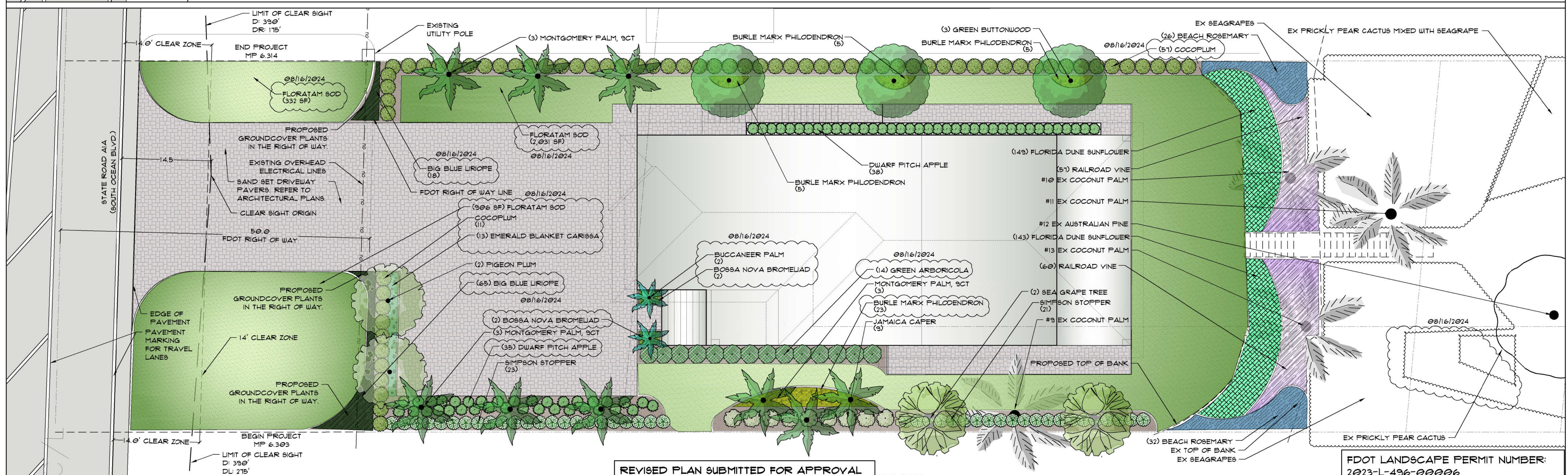
- GOVERNING STANDARD PLANS:  
Florida Department of Transportation, FY 2022-23 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs) are available at the following website: <https://www.fdot.gov/design/standardplans>
- GOVERNING STANDARD SPECIFICATIONS:  
Florida Department of Transportation, July 2022 Standard Specifications for Road and Bridge Construction at the following website: <https://www.fdot.gov/programmanagement/implemented/specbooks>
- Contractor shall repair all damage done to FDOT property during demolition, relocation &/or installation activities at his sole expense.
- Any plant material substitution within or impacting the FDOT Right of Way whether requested by the Contractor, Owner, Landscape Architect or other will need to get approval from the FDOT District Landscape Architect.
- Architectural Pavers installation for sidewalks, medians, driveways, or roadways within the FDOT right of way shall comply with current FDOT Standard Specification 526.  
Online Reference: [https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/implemented/specbooks/fy-2023-24/fy2023-24book.pdf?sfvrsn=6b69416d\\_6](https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/implemented/specbooks/fy-2023-24/fy2023-24book.pdf?sfvrsn=6b69416d_6)
- 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 FDOT Palm Beach Operations Center or stockpiled in those areas as directed by the Department, including asphalt millings.

**FDOT PLANTING NOTES**

- 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. Online Reference: [ssm580000wd-722-17922.pdf \(windows.net\)](https://www.fdot.gov/design/standardplans/2023/idx/580-001.pdf)
- For the portion of landscape plant material that will be installed within the FDOT Right of Way refer to the FDOT Standard Plans Index 580-001 Landscape Installation.  
Online Reference: <https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/design/standardplans/2023/idx/580-001.pdf>
- Sodded areas will be in accordance with Standard Plans Index 570-010 and Standard Specifications Sections 162, 570, 981, 982, 983, 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.



PREVIOUSLY APPROVED PLAN DATED 05/08/2023



REVISED PLAN SUBMITTED FOR APPROVAL 08/16/2024

FDOT LANDSCAPE PERMIT NUMBER:  
2023-L-496-00006

Sheet  
L2  
Landscape Plan

Landscape Plan  
**NEW RESIDENCE**  
3521 S Ocean Blvd., Highland Beach, FL 33487



Date: 07/27/2021  
Design by: MF/PA  
Reviewed by: MF  
Scale: 1"=8'  
Revised: 06/17/2023, 08/17/2023, 09/08/2023, 02/26/2024, 07/07/2024, 08/16/2024

Please note: This plan is a professional interpretation of existing and proposed site elements based on multiple sources of information. These sources may include: property surveys, architectural plans, site observations, photographs and site plans. At times, these supporting documents are inaccurate or approximate at best and are subject to change. It is the contractor's responsibility to verify all measurements and quantities prior to commencing work.

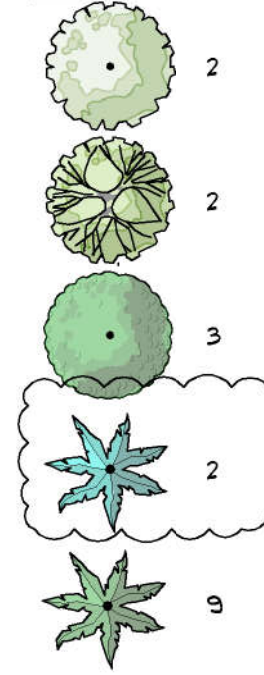
Michael Flaugh  
LANDSCAPE ARCHITECT  
FL Reg. #A-0001726  
772.419.0024  
Hourz.com/for/Michael-Flaugh www.MikeFlaugh.com

**PLANT SCHEDULE**

**SYMBOL QTY**

PREVIOUSLY APPROVED QUANTITIES FROM PLAN DATED 05/08/2023

**TREES**

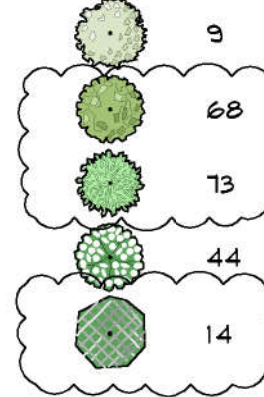


2  
2  
3  
3  
9

BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	NOTES	CODE
COCCOLOBA DIVERSIFOLIA	PIGEON PLUM	B & B	3" CAL	14' OA HT.	NATIVE	DROUGHT TOLERANT
COCCOLOBA UVIFERA	SEA GRAPE TREE	B & B	3" CAL	14' OA HT.	NATIVE	DROUGHT TOLERANT
CONOCARPUS ERECTUS 'GREEN'	GREEN BUTTONWOOD	45 GAL	3" CAL	14' OA HT.	NATIVE	DROUGHT TOLERANT
PSEUDOPHOENIX SARGENTII NATIVE	BUCCANEER PALM	B & B		14' OA HT.	NATIVE	DROUGHT TOLERANT
VEITCHIA MONTGOMERYANA	MONTGOMERY PALM, 9CT	B & B	FL FANCY	9' CT, 14' OA HT.	NON NATIVE	

**SYMBOL QTY**

**SHRUBS**

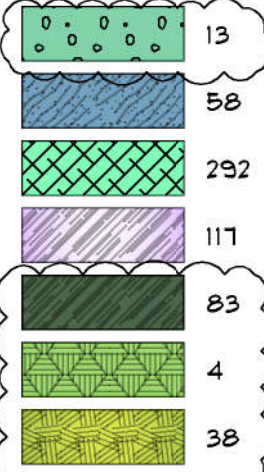


9  
68  
73  
44  
14

BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE	NOTES	CODE
CAPPARIS CYNOPHALLOPHORA	JAMAICA CAPER	1 GAL	A6 SHOWN	3 - 4' HT., FULL	NATIVE	DROUGHT TOLERANT
CHRYSOBALANUS (CACO 'RED-TIP')	COCOPLUM	1 GAL	A6 SHOWN	36" HT., FULL	NATIVE	DROUGHT TOLERANT
CLUBIA ROSEA 'NANA'	DWARF PITCH APPLE	3 GAL	A6 SHOWN	14" X12"	NON NATIVE	DROUGHT TOLERANT
MYRTICANTHES FRAGRANS	SIMPSON STOPPER	1 GAL	A6 SHOWN	36" HT., FULL	NATIVE	DROUGHT TOLERANT
SCHIEFFERA ARBORICOLA	GREEN ARBORICOLA	25 GAL	A6 SHOWN	4' HT., FULL	NON NATIVE	DROUGHT TOLERANT

**SYMBOL QTY**

**GROUND COVERS**



13  
58  
292  
111  
83  
4  
38

BOTANICAL NAME	COMMON NAME	CONT	INSTALL	SPECS	NOTES	CODE
CARISSA MACROCARPA 'EMERALD BLANKET'	EMERALD BLANKET CARISSA	1 GAL	18" O.C.	6" X8"	NON-NATIVE	DROUGHT TOLERANT
CONRADINA CANESCENS	BEACH ROSEMARY	1 GAL	18" O.C.		NATIVE	DROUGHT TOLERANT
HELIANTHUS DEBILIS	FLORIDA DUNE SUNFLOWER	1 GAL	12" OC	4" X8"	NATIVE	DROUGHT TOLERANT
IPOMOEA PES-CAPRAE	RAILROAD VINE	1 GAL	18" O.C.	FULL	NATIVE	DROUGHT TOLERANT
LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LIRIOPE	1 GAL	12" OC	6" X8"	NON-NATIVE	
NEOREGELIA 'BOSSA NOVA'	BOSSA NOVA BROMELIAD	1 GAL	24" O.C.	SUN GROWN, 12" X12"	NON-NATIVE	
PHILODENDRON X 'BURLE MARX'	BURLE MARX PHILODENDRON	1 GAL			NON-NATIVE	

**OTHER**



3,269 SF 2,625 SF

BOTANICAL NAME	COMMON NAME	CONT	INSTALL	SPECS	NOTES	CODE
STENOTAPHRUM SECUNDATUM 'FLORATAM'	FLORATAM SOD	SOD	TIGHTLY FITTED, STAGGERED JOINTS			



PIGEON PLUM



SEAGRAPE



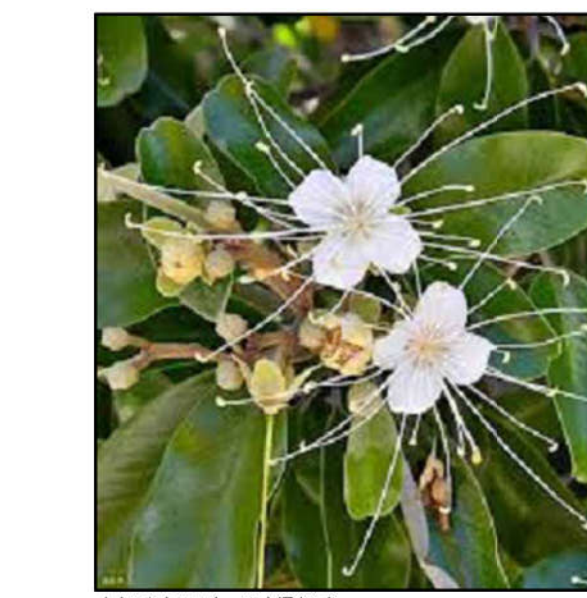
GREEN BUTTONWOOD TREE



BUCCANEER PALM



MONTGOMERY PALM



JAMAICA CAPER



RED TIP COCOPLUM



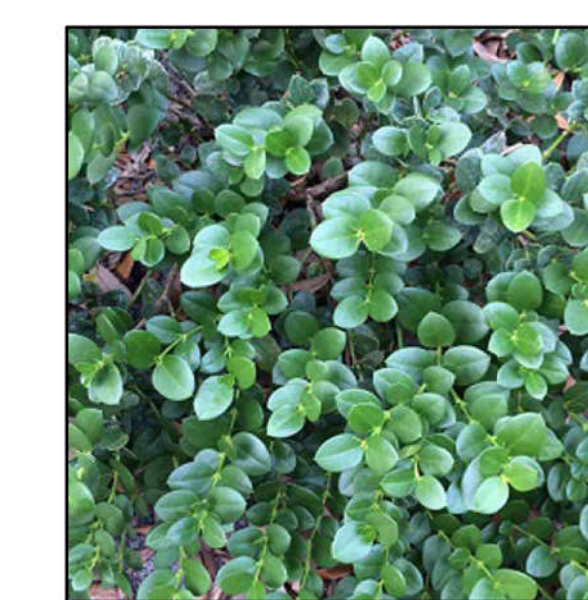
DWARF CLUBIA



SIMPSON STOPPER



ARBORICOLA



CARISSA EMERALD BLANKET



BEACH ROSEMARY



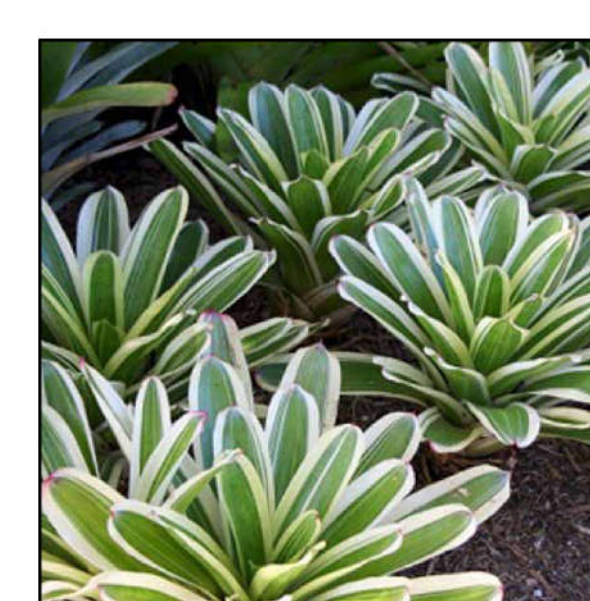
FLORIDA DUNE SUNFLOWER



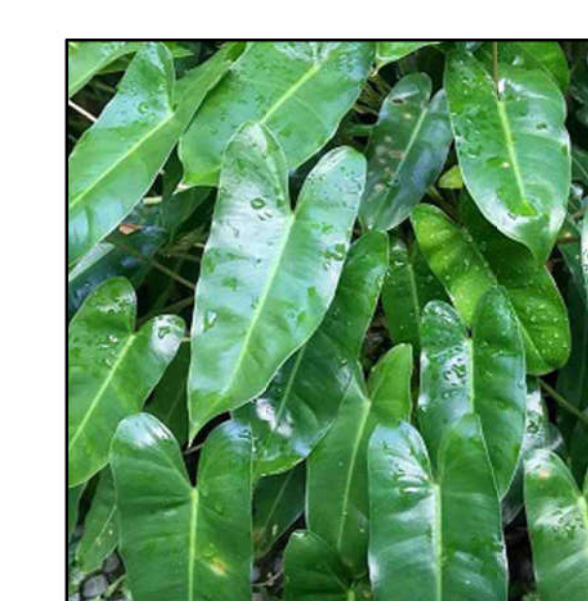
RAILROAD VINE



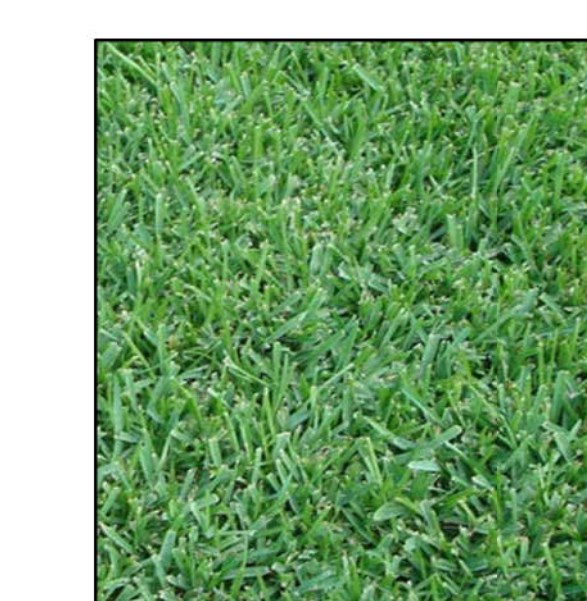
BIG BLUE LIRIOPE



BOSSA NOVA BROMELIAD



BURLE MARX PHILODENDRON



ST AUGUSTINE FLORATAM SOD

PLANT MATERIAL THAT WAS PREVIOUSLY APPROVED BUT IS NO LONGER INCORPORATED IN THE DESIGN  
 1 CAT PALM (CHAMAEDOREA CATARACTARUM) 1 GALLON  
 1 FIDDLEWOOD (CITHAREXYLUM FRUITICOSUM) 1 GALLON  
 6 PHILODENDRON "ROJO CONGO" (RED CONGO PHILODENDRON) 3 GALLON  
 11 PROPOSED SEAGRAPE SHRUBS HAVE BEEN REMOVED FROM THE EXISTING DUNE.  
 08/16/2024

GENERAL NOTE:  
 ALL PLANTS ARE TO BE A MINIMUM GRADE OF FLORIDA #1

**REFERENCE NOTES SCHEDULE**

SYMBOL	PLANTING ACCESSORIES DESCRIPTION	QTY	PREVIOUSLY APPROVED QUANTITIES FROM PLAN DATED 05/08/2023	DEPTH/HEIGHT	INSTALLATION	PATTERN
	MULCH	10.36 CY	11.99 CY	3"	FINISHED GRADE EVEN WITH ADJACENT SOD/HARDSCAPES	BLACK, SHREADED, HARDWOOD, NON-CYPRESS
	SOIL	14.73 CY	16.9 CY	4"	TILLED IN	1:1 SCREENED COMPOST AND SCREENED TOPSOIL

08/16/2024

NATIVE / DROUGHT TOLERANT PLANT TABLE		
PLANT TYPE	TOTAL PLANTS PROVIDED	NATIVE / DROUGHT TOLERANT
TREES / PALMS	18	10 (55%)
SHRUBS	208	208 (100%)
GROUND COVERS	605	400 (66%)

PREVIOUSLY APPROVED PLANT TABLE

NATIVE / DROUGHT TOLERANT PLANT TABLE		
PLANT TYPE	TOTAL PLANTS PROVIDED	NATIVE / DROUGHT TOLERANT
TREES / PALMS	19	10 (53%)
SHRUBS	220	213 (97%)
GROUND COVERS	650	520 (80%)

Please note: This plan is a professional interpretation of existing and proposed site elements based on multiple sources of information. These sources may include property surveys, architectural plans, geographic data, photographs, photographs and site plans. At times, these supporting documents are inaccurate or approximate and the contractor is responsible to verify all measurements and quantities prior to commencing work.

**LANDSCAPE INSTALLATION NOTES:**

1. THE LANDSCAPE CONTRACTOR SHALL DESIGNATE AN ENGLISH SPEAKING, SKILLED CREW FOREMAN FOR THE PROJECT, WHO WILL BE AVAILABLE AND ACCESSIBLE FOR THE DURATION OF THE LANDSCAPE INSTALLATION.
2. ALL SPECIFICATIONS MUST BE SATISFIED. IF THERE IS A PROBLEM LOCATING A MATERIAL WITH GIVEN SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT BY EMAIL PRIOR TO INSTALLATION. AT THE DISCRETION OF THE LANDSCAPE ARCHITECT, A SUBSTITUTION MAY BE MADE.
3. LANDSCAPE CONTRACTOR IS RESPONSIBLE TO REVIEW AND RECONCILE PLAN WITH LANDSCAPE MATERIALS LIST, AND ANALYZE SITE CONDITIONS AND ACCESS PRIOR TO SUBMITTING A PROPOSAL.
4. LANDSCAPE CONTRACTOR MUST PROVIDE EVIDENCE OF WORKMAN'S COMPENSATION AND LIABILITY INSURANCE IN PROPOSAL PACKAGE.
5. THE LANDSCAPE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE LAWS, CODES AND ORDINANCES.
6. ALL PLANT MATERIAL FURNISHED BY THE LANDSCAPE CONTRACTOR SHALL BE FLORIDA #1 OR BETTER (GRADES AND STANDARDS FOR NURSERY PLANTS, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, LATEST EDITION), UNLESS OTHERWISE NOTED ON THE LANDSCAPE MATERIALS LIST. AS MANY SPECIES TOLERATE BOTH SUNNY AND SHADY GROWING CONDITIONS, THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PLANT MATERIAL GROWN IN SIMILAR CONDITIONS TO THE SITE.

7. THE LANDSCAPE CONTRACTOR SHALL COMPLETE ALL WORK ACCORDING TO THE FLORIDA GREEN INDUSTRIES BEST MANAGEMENT PRACTICES.
8. THE LANDSCAPE CONTRACTOR MUST SPECIFY START AND COMPLETION DATES, IF AWARDED THE PROJECT.

9. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK.
10. ALL PLANTING AREAS SHALL BE PREPARED BY REMOVING ALL DEBRIS, INCLUDING ASPHALT, CONCRETE, OR SIMILAR MATERIALS NOT SUITED FOR LANDSCAPE PLANTING.

11. PLANTING SOIL SHALL BE CLEAN OF ROCKS, STICKS, ROOTS AND WEEDS, AND SHALL BE WELL-DRAINING.
12. ALL LANDSCAPED AREAS SHALL BE FINISH GRADED SUCH THAT FINISHED ELEVATION WILL BE FLUSH AND LEVEL WITH SURROUNDING PAVED SURFACES. THE FINISHED GRADE AFTER PLANTING AND MULCHING SHALL NOT IMPEDE THE FLOW OF DRAINAGE INTO LANDSCAPED AREAS AND TO PREVENT THE BACKWASH OF MULCH AND DEBRIS INTO PAVED AREAS.

13. ALL PLANTING BEDS MUST DRAIN SUFFICIENTLY PRIOR TO PLANTING. IF EXISTING SOIL IS NOT ADEQUATE FOR ESTABLISHMENT OF PLANT MATERIALS DUE TO POOR DRAINAGE OR CHEMICAL PROPERTIES, SOIL AMENDMENTS SHALL BE ADDED PRIOR TO PLANTING.

14. PLANTS SHALL NOT BE PLACED TOO CLOSE TO ONE ANOTHER OR ANY HARDSCAPES. SEE LANDSCAPE MATERIALS LIST AND PLANTING DETAILS FOR SPACING AND PLACEMENT OF ALL PLANTS. A MULCH STRIP SHALL BE LEFT BETWEEN THE PLANTINGS AND WALLS, EDGE OF SOD, DRIVEWAY OR WALKWAYS. ALL PLANTS SHALL BE PLACED OUTSIDE THE EAVES OF THE ROOF, UNLESS OTHERWISE INDICATED ON THE LANDSCAPE PLAN.

15. ALL PLANTS TO BE RELOCATED SHALL BE PROPERLY ROOT PRUNED 6 TO 10 WEEKS PRIOR TO RELOCATION.

16. ALL NEW LANDSCAPE PLANTS SHALL BE PLANTED SLIGHTLY HIGHER THAN THE EXISTING GRADE LEAVING TOP OF THE ROOT BALL EXPOSED.

17. ALL PLANT MATERIALS SHALL BE THOROUGHLY WATERED IN AT THE TIME OF PLANTING.

18. 3" LAYER OF ORGANIC MULCH SHALL BE LAID IN ALL LANDSCAPE BEDS. NO MULCH SHALL BE LAID NEAR TREE TRUNKS. NO MULCH SHALL BE LAID ON TOP OF CITRUS TREE ROOT BALLS.

19. NEWLY PLANTED TREES SHALL BE STAKED ONLY IF THE ROOT BALL MOVES IN THE WIND OR THE TREES ARE LOCATED IN AN AREA OF WINDY CONDITIONS. ALL PALMS SHALL BE STAKED. ALL WOOD BRACES AND BRACE FRAMES SHALL BE STAINED DARK BROWN. NO NAILS SHALL BE DRIVEN INTO ANY PALM OR TREE.

20. PLANTING PLAN TAKES PRECEDENCE OVER PLANT LIST.

21. THE LANDSCAPE BID SHALL INCLUDE IRRIGATION ON A SEPARATE CONTRACT, EXPRESSED AS A LINE-ITEM PROPOSAL.

22. ALL LANDSCAPE AREAS SHALL BE IRRIGATED WITH FULLY AUTOMATIC IRRIGATION SYSTEM. THE IRRIGATION CONTRACTOR SHALL PROVIDE 100% COVERAGE IN ALL IRRIGATED PLANTING AREAS. THE IRRIGATION SYSTEM SHALL BE DESIGNED ACCORDING TO ACCEPTED IRRIGATION STANDARDS USING WATER CONSERVATION PRINCIPLES WITH LOW-VOLUME IRRIGATION SYSTEM. THE SYSTEM SHALL ACCOMMODATE EASY ADJUSTMENTS FOR SEASONAL IRRIGATION NEED CHANGES OR LOCAL WATERING RESTRICTIONS.

23. ALL SOD AND SHRUB AREAS SHALL BE IRRIGATED ON SEPARATE ZONES, WHENEVER POSSIBLE. PLANTING AREAS WITH DIFFERENT WATERING NEEDS SHALL BE PLACED ON SEPARATE ZONES.

24. ALL SHRUB AND GROUND COVER AREAS SHALL BE IRRIGATED WITH DRIP LINE OR MIST HEADS; TREES AND PALMS SHALL HAVE BUBBLERS. ALL HEADS IN A GIVEN ZONE MUST HAVE THE SAME PRECIPITATION RATE.

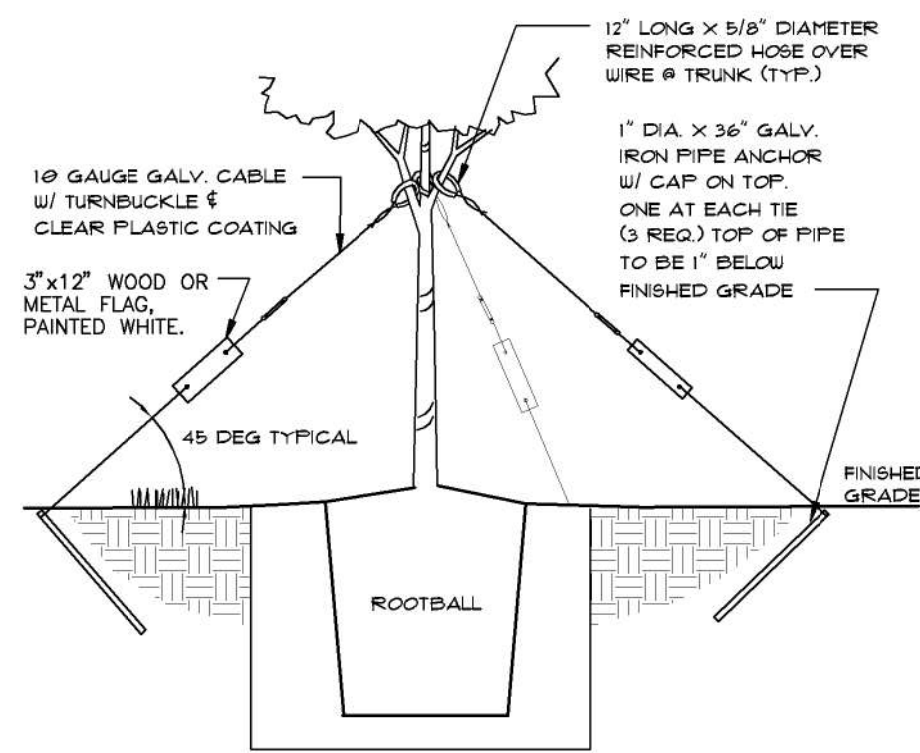
25. SPRAY HEADS SHALL BE PLACED AND ADJUSTED TO MINIMIZE OVER-SPRAY ON PAVED AREAS, ROADWAYS AND CURBING. NO OVER-SPRAY ON BUILDINGS IS ACCEPTABLE.

26. THE CONTRACTOR(S) SHALL KEEP ALL WORK AREAS NEAT AND TIDY ON A DAILY BASIS. AT COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL REMOVE FROM THE PROPERTY ALL TEMPORARY STRUCTURES AND GARBAGE AT HIS/HER OWN EXPENSE.

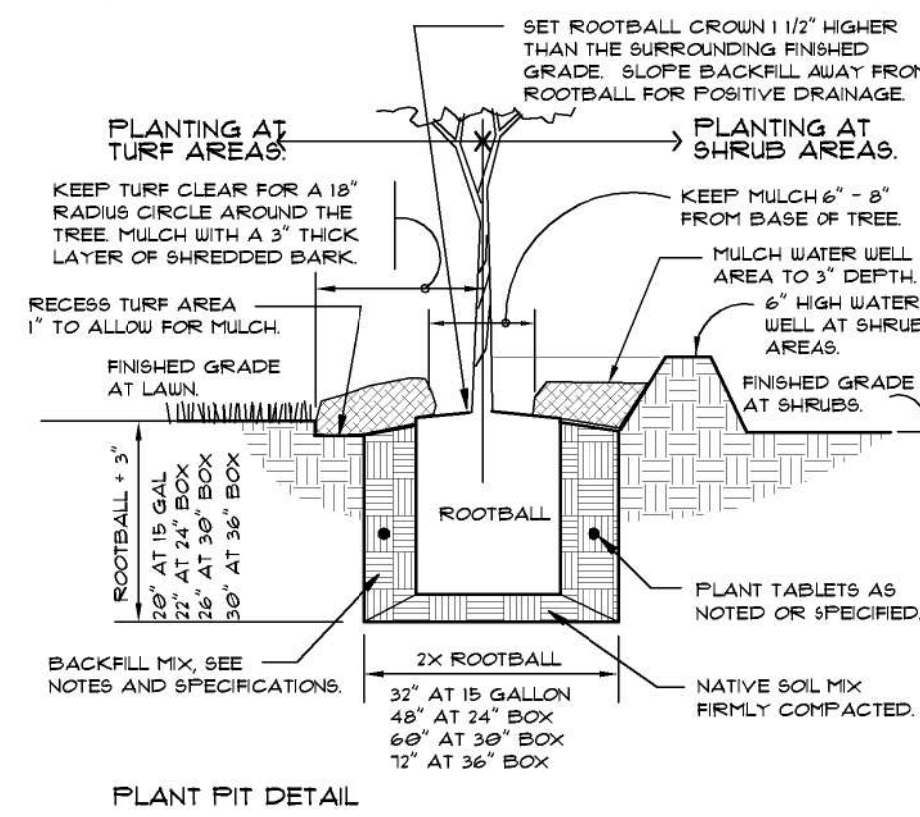
27. THE CONTRACTOR(S) SHALL KEEP ALL PLANTS WATERED, FERTILIZED, MULCHED, PRUNED, STAKED AND GUYED AS NECESSARY TO ASSURE SPECIFIED MINIMUM GRADE OF FLORIDA #1 THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION PERIOD. PLANTING BEDS SHALL BE KEPT FREE OF LITTER AND UNDESIRABLE VEGETATION. THE CONTRACTOR(S) IS RESPONSIBLE FOR KEEPING ALL THE PLANT MATERIAL HEALTHY, VIGOROUS, AND UNDAMAGED THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION PERIOD.

28. THE FINAL PAYMENT IS MADE UPON COMPLETION OF PROJECT AND EXECUTION OF LIEN RELEASE AFFIDAVIT.

29. ALL SHRUBS AND GROUND COVERS SHALL BE WARRANTIED FOR 90 DAYS; ALL TREES AND PALMS SHALL BE WARRANTIED FOR 1 YEAR FROM THE DATE OF FINAL ACCEPTANCE AND PAYMENT.



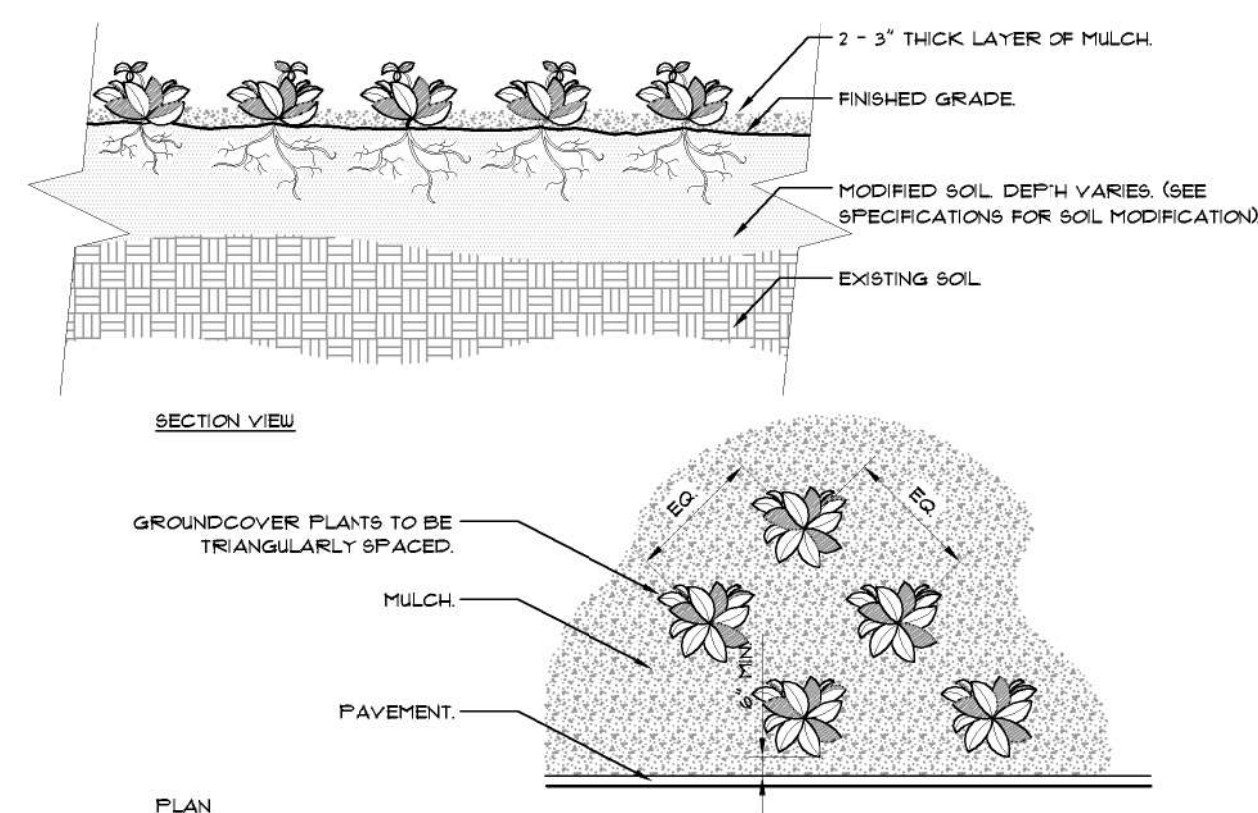
STAKING DETAIL



PLANT PIT DETAIL

**1 TREE GUY WIRE PLANTING**

NOT TO SCALE FX-PL-FX-TREE-11



NOTES:  
 1- SEE PLANTING LEGEND FOR GROUNDCOVER SPECIES, SIZE, AND SPACING DIMENSION.  
 2- SHALL ROOT 12\"/>

**4 GROUND COVER**

NOT TO SCALE FX-PL-FX-GROU-01

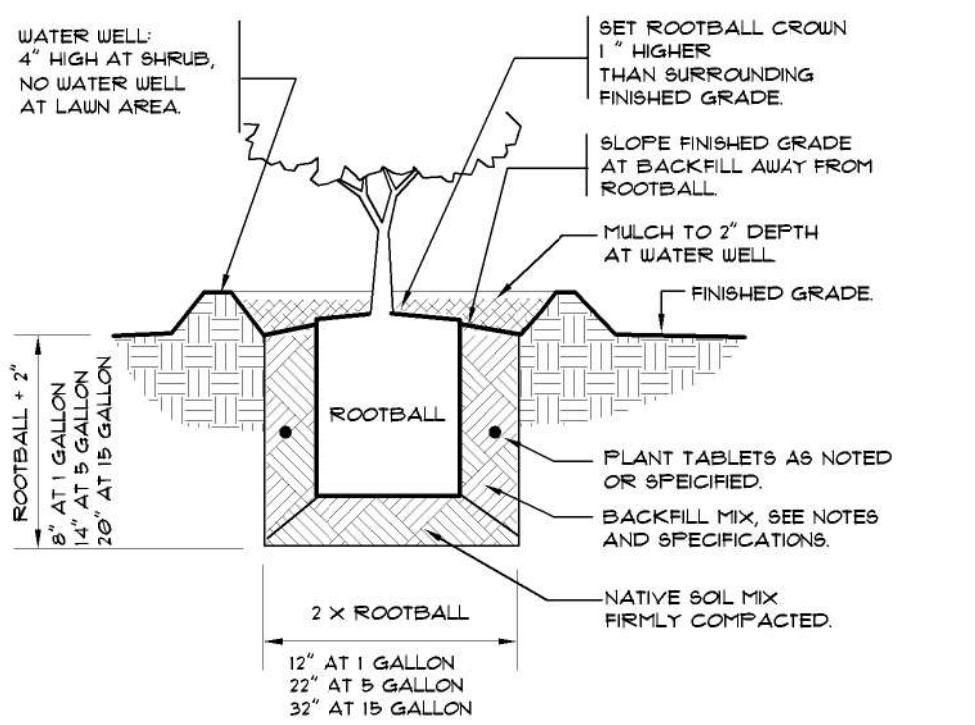
NOTE:  
 1. ALLOW 3 MONTHS FOR THE ROOT-PRUNING PROCESS OF A LARGE TREE BEFORE RELOCATING IT.  
 2. IF THE RELOCATION IS SCHEDULED DURING DRY OR ACTIVE GROWING SEASON, THE TREE SHALL BE WATERED DAILY DURING THE ROOT PRUNING PROCESS.  
 3. THE TIME OF THE RELOCATION SHALL BE 90 DAYS AFTER THE START OF THE ROOT PRUNING PROCESS. THEN, THE ROOT BALL SHALL BE CUT BEYOND THE ROOT PRUNING CUT TO INCLUDE ALL NEW FEEDER ROOTS.  
 4. AFTER RELOCATION, THE TREE SHALL BE THOROUGHLY WATERED DAILY FOR THE FIRST TWO WEEKS, AND THREE TIMES PER WEEK FOR THE FOLLOWING TWO MONTHS.

**5 TREE RELOCATION**

NOT TO SCALE

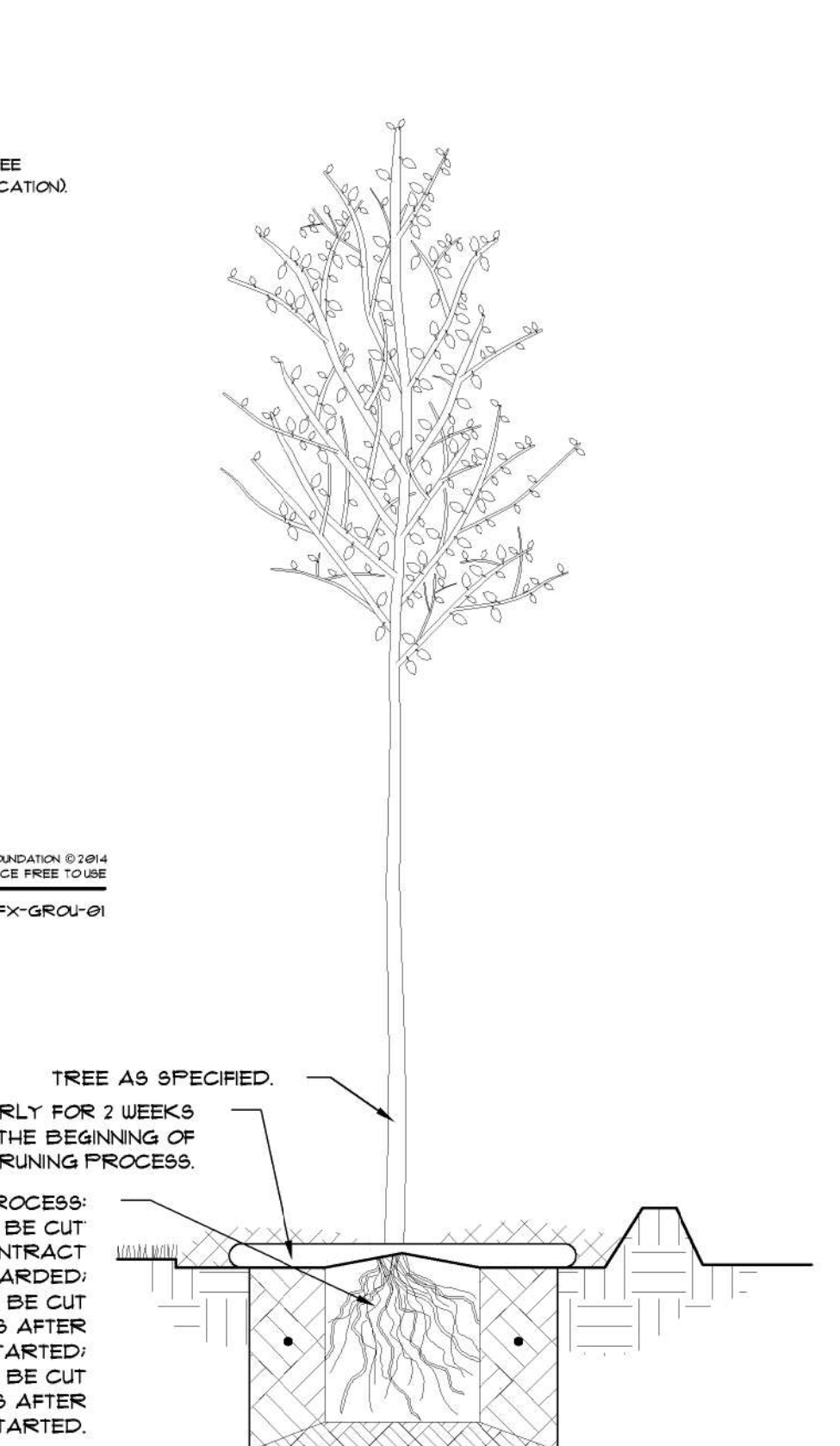
**2 PALM TREE PLANTING**

NOT TO SCALE FX-PL-FX-TREE-15



**3 SHRUB PLANTING**

NOT TO SCALE FX-PL-FX-SHRUB-01



**LANDSCAPE MAINTENANCE GUIDELINES:**

1. LAWN CARE:
  - 1.1. MAINTAIN ST. AUGUSTINE LAWN AT 3" HEIGHT. LEAVE LAWN CLIPPINGS ON THE LAWN.
  - 1.2. FERTILIZE IN FEBRUARY, MAY AND OCTOBER. APPLY PRE-EMERGENT WEED KILLER IN EARLY SPRING AND FALL.
  - 1.3. PRACTICE INTEGRATED PEST MANAGEMENT TO IDENTIFY AND TREAT INSECT STRESS, WEED AND FUNGAL PROBLEMS, INSPECT AND CONTROL INSECT DAMAGE ON LAWNS DURING SUMMER MONTHS. FOLLOW LABEL DIRECTIONS FOR ANY INSECTICIDE, HERBICIDE OR FUNGICIDE APPLICATION. REFER TO GROWERS GUIDELINES FOR DETAILED INSTRUCTIONS.
  - 1.4. 100% OF THE SOD AREAS SHALL BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM. INSPECT THE IRRIGATION SYSTEM FOR BREAKS AND HEAD ALIGNMENT ROUTINELY.

2. MULCH:
  - 2.1. ALL LANDSCAPE BEDS SHALL BE MULCHED TWICE A YEAR.
  - 2.2. APPLY 3" LAYER OF MFC CERTIFIED, SHREDDED EUCALYPTUS OR RECYCLED HARDWOOD MULCH.

3. FERTILIZING:
  - 3.1. FERTILIZE WITH A GOOD QUALITY ORGANIC FERTILIZER THREE TIMES A YEAR PER LABEL INSTRUCTIONS STARTING IN MID TO LATE FEBRUARY.
  - 3.2. YELLOWING LEAVES ARE OFTEN A SIGN OF NUTRITIONAL DEFICIENCY.
  - 3.3. DO NOT APPLY FERTILIZER BETWEEN JUNE 1 AND SEPTEMBER 30. COMPOST SHALL BE USED IN LIEU OF FERTILIZER DURING THE RAINY SEASON, AS NEEDED.
  - 3.4. MAINTAIN A FERTILIZER FREE ZONE ALONG THE RIVER TO PREVENT RUN-OFF.

4. PEST AND DISEASES:
  - 4.1. SCOUT FOR PESTS AND DISEASES REGULARLY. ONLY 1% OF ALL INSECTS ARE HARMFUL TO PLANTS.
  - 4.2. USE INTEGRATED PEST MANAGEMENT PRACTICES. USE PREVENTATIVE CHEMICAL APPLICATIONS ONLY, WHEN DETERMINED NECESSARY BY A PEST MANAGEMENT PROFESSIONAL.
  - 4.3. CHEMICAL PEST CONTROL SHALL BE USED ONLY WHEN THE DAMAGE IS EXPECTED TO BE SIGNIFICANT.

5. WEEDS:
  - 5.1. WEED CONTROL SHALL BE PREVENTATIVE.
  - 5.2. HERBICIDE APPLICATIONS MUST BE DONE BY A LICENSED PEST-CONTROL PROFESSIONAL.

6. IRRIGATION:
  - 6.1. PROGRAM THE IRRIGATION SYSTEM TO RUN IN THE EARLY MORNING.
  - 6.2. NEW PLANTINGS SHOULD BE WATERED DAILY FOR THE FIRST TWO WEEKS, AFTER WHICH THREE TIMES PER WEEK FOR THE FOLLOWING TWO MONTHS.
  - 6.3. NEW TREES SHALL BE WATERED AT LEAST ONCE A WEEK FOR THE FOLLOWING YEAR AND SHRUBS FOR THE FOLLOWING 6 MONTHS FOR PROPER ESTABLISHMENT.
  - 6.4. TREES SHOULD RECEIVE 2 - 3 GALLONS OF WATER PER INCH OF TRUNK DIAMETER AT EACH WATERING.
  - 6.5. AT EACH WATERING, APPLY 1" WATER TO ESTABLISHED PLANTING BED.
  - 6.6. THE AUTOMATIC IRRIGATION SYSTEM SHALL BE INSPECTED ONCE A MONTH FOR LEAKS, BRAKES AND MISALIGNED HEADS.
  - 6.7. INCREASE WATERING FREQUENCY DURING TIMES OF HEAVY WINDS AND DROUGHT, TYPICALLY IN THE SPRING. PLEASE NOTE THAT A RAIN SENSOR WILL NOT DETECT THE DRYING EFFECTS OF HEAVY WINDS.
  - 6.8. REDUCE WATERING FREQUENCY DURING COOL WINTER AND RAINY SUMMER MONTHS. WATER ONLY AS NEEDED AS HEAVY RAINS AND IRRIGATION WILL INCREASE WEEDS. THE IRRIGATION SYSTEM MAY BE TURNED OFF DURING MONTHS OF HEAVY RAIN. A RAIN SENSOR MAY BE USED TO OVERRIDE THE SYSTEM DURING THE RAINY SEASON.

7. PRUNING:
  - 7.1. ALL PRUNING AND TRIMMING TOOLS SHALL BE CLEANED AFTER EACH USE TO PREVENT SPREADING OF DISEASES.
  - 7.2. REMOVE DEAD FRONDS, DEAD WOOD AND CROSSING BRANCHES ON LARGE SHRUBS, PALMS AND TREES ANY TIME OF THE YEAR.
  - 7.3. FLOWERING SHRUBS: LATE SUMMER AND FALL FLOWERING SHRUBS, AS WELL AS CONIFERS SHALL BE PRUNED ONCE A YEAR IN MARCH. SPRING BLOOMING SHRUBS SHALL BE PRUNED ONCE A YEAR, AFTER THEIR BLOOMS FADE IN LATE SPRING.
  - 7.4. SHADE TREES SHALL BE STRUCTURALLY PRUNED ONCE A YEAR IN SPRING BY A CERTIFIED ARBORIST.
  - 7.5. SHRUBS SHALL BE MAINTAINED FOLLOWING THEIR NATURAL FORM WITH ROUNDED TOP AND WIDER BASE. SMALL-LEAVED (LESS THAN 1" LENGTH) SHRUBS MAY BE SHEARED WITH POWERED HEDGE TRIMMERS. ALL SHRUBS SHALL BE TRIMMED ONE TO THREE TIMES A YEAR TO MAINTAIN DESIRED HEIGHT. ALL OVERGROWN SHRUBS SHALL BE CUT BACK IN MAY AND IN SEPTEMBER.
  - 7.6. HEDGES SHALL BE PRUNED REGULARLY FROM THE BEGINNING FOR PROPER ESTABLISHMENT. ALL HEDGES MUST BE MAINTAINED WITH NARROWER TOP THAN THE BOTTOM FOR SUNLIGHT TO REACH THE LOWER HALF OF THE PLANT.
  - 7.7. ORNAMENTAL GRASSES MAY BE CUT BACK ONCE A YEAR IN SUMMER TO REMOVE BROWN LEAVES. CUTTING MAY BE COMPLETED IN FOUR WEEK INTERVALS SO NOT TO HAVE ALL THE ORNAMENTAL GRASSES RECOVERING AT THE SAME TIME.

8. DIVIDING PLANTS:
  - 8.1. BROMELIADS: WHEN THE MOTHER PLANT TURNS BROWN, CAREFULLY PULL UP THE BROMELIAD CLUMP. CUT THE PUPS APART WITH A SHARP KNIFE OR PRUNERS PRESERVING AS MANY OF THE ROOTS AS POSSIBLE. DISCARD THE DYING MOTHER PLANT AND PLANT THE PUPS. THE DEAD MOTHER PLANT MAY ALSO BE TWISTED OFF AT THE BASE, WITHOUT REMOVING THE CLUMP FROM THE GROUND.
  - 8.2. HERBACEOUS PERENNIALS: THE CLUMPS MAY BE DIVIDED EVERY TWO TO THREE YEARS IN LATE SPRING OR SUMMER. DIG THE ROOT BALL OUT OF THE GROUND AND CAREFULLY DIVIDE THE CLUMP INTO 2-4 SMALLER SECTIONS.

9. RELOCATING PLANT MATERIAL:
  - 9.1. THE BEST TIME TO RELOCATE PLANTS IN THE GARDEN IS FEBRUARY THROUGH APRIL.
  - 9.2. THE PLANT SHALL BE PROPERLY ROOT-PRUNED BETWEEN 6 AND 10 WEEKS BEFORE RELOCATION.
  - 9.3. AT THE TIME OF THE RELOCATION, THE ROOT BALL SHALL BE CUT BEYOND THE ROOT PRUNING CUT TO INCLUDE ALL NEW FEEDER ROOTS.
  - 9.4. WATER RELOCATED PLANTS DAILY FOR THE FIRST TWO WEEKS, AFTER WHICH THREE TIMES PER WEEK FOR THE FOLLOWING TWO MONTHS.

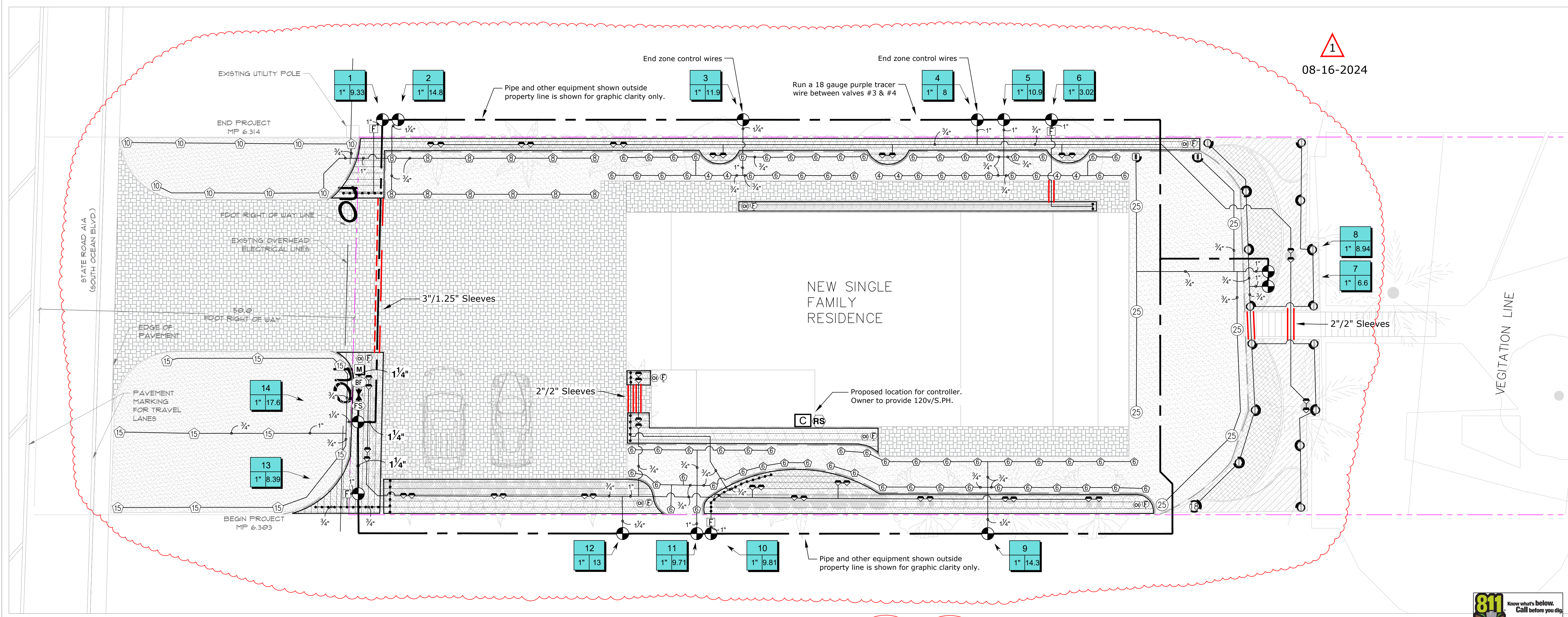
10. MAINTAINING SOIL PH:
  - 10.1. SANDY SOILS ARE NATURALLY ALKALINE, BUT MOST PLANT MATERIALS PREFER SOILS IN NEUTRAL OR ACIDIC RANGE TO THRIVE.
  - 10.2. ADDING ORGANIC MATTER REGULARLY WILL MAINTAIN A HEALTHY PH LEVEL FOR ALL PLANTS.
  - 10.3. COMPOST WILL DECREASE THE SOIL PH THROUGH THE DECOMPOSITION PROCESS.
  - 10.4. ACIDIC ORGANIC MATTER, SUCH AS PINE NEEDLES AND ACID PEAT WILL REDUCE THE PH TEMPORARILY.
  - 10.5. GRANULAR SULFUR SHOULD ONLY BE USED AS THE LAST RESORT TO LOWER SOIL PH.

11. CONTAINER PLANTS:
  - 11.1. ONLY USE POTTING SOIL OR POTTING MIX IN CONTAINERS.
  - 11.2. WATER THOROUGHLY. CONTAINER PLANTS NEED MORE WATER THAN THE PLANTS IN THE GROUND. DURING SUMMER MONTHS, HERBS IN CONTAINERS WILL NEED WATERING ONCE DAILY.

12. COLD PROTECTION:
  - 12.1. WATER COLD SENSITIVE PLANTS THOROUGHLY 12 HOURS BEFORE THE FORECASTED COLD FRONT.
  - 12.2. COVER THE PLANTS AT DUSK WITH BLANKETS OR BREATHABLE COVERS. REMOVE THE COVERS AFTER DAWN.

FDOT LANDSCAPE PERMIT NUMBER:  
 2023-L-496-00006





1  
 08-16-2024



3  
 08-16-2024

2  
 08-16-2024

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯	Hunter PROS-06-CV Adj Series Turf Spray, 6in. Pop-Up. With Drain Check Valve.
⑭ ADU 14 F	Hunter PROS-06-CV, Rain Bird R-VAN14 Turf Rotary, 8ft.-14ft. 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/PROS-06 and check valve.
⑬ SST RST	Hunter PROS-12-CV, Rain Bird R-VAN-STRIP Shrub Rotary, 5ft.x15ft. (LCS and RCS), 5ft.x30ft. (SST) Hand Adjustable Multi-Stream Rotary w/ PROS-12 pop-up with check valve, on a Sch-40 riser.
⑭ ADU 14 F	Hunter PROS-12-CV, Rain Bird R-VAN14 Shrub Rotary, 8ft.-14ft. 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/ PROS-12 pop-up with check valve, on a Sch-40 riser.
⑮ ADU 18 F	Hunter PROS-12-CV, Rain Bird R-VAN18 1812-SAM-P45 Shrub Rotary, 13ft.-18ft. 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/ PROS-12 pop-up with check valve, on a Sch-40 riser.
25 50 10 20	Hunter PCB 10 Flood Bubbler, 1/2" FIPT.
25	Hunter PGP-04-MPR 25 Turf Rotor, 4" Pop-Up. Adjustable to Full Circle. MPR Nozzle.
F	Netafim TL050MFV-1 Automatic flush valve, 1/2" male pipe thread.
DI	Rain Bird OPERIND Drip System Operation Indicator, stem rises 6" for clear visibility when drip system is charged to a minimum of 20psi. Includes 16" of 1/4" distribution tubing with connection fitting pre-installed.
[Hatched Area]	Area to Receive Dripline Hunter HDL-09-12-CV HDL-09-12-CV: Hunter Dripline w/ 0.9 GPH emitters at 12" O.C. 2,036 I.F. Check valve, dark brown tubing w/ black striping. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.
[Valve Symbol]	Hunter PGV-101A 1" Plastic Electric Remote Control Valve, Angle Configuration, With Flow Control.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
[Slip Socket Symbol]	Landscape Products Inc. CWV Slip Socket Slip Socket Plastic Ball Valve. Quarter-turn shutoff designed for irrigation, cold water applications. Same size as mainline.
[Valve Symbol]	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
[Zurn Symbol]	Proposed Zurn 720A 1.25" Pressure Vacuum Breaker to be provided, installed and certified by others.
[HCC Symbol]	Hunter HCC-2400-PL 24 Station Outdoor Wi-Fi enabled, w/ (2) ICM-800 modules, touchscreen, Plastic Cabinet.
[RS Symbol]	Hunter WR-CLIK Rain Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted.
[FS Symbol]	Creative Sensor Technology FSI-T-SP3 Series 1in. PVC tee type flow sensor w/socket ends, custom mounting tee and ultra-lightweight impeller enhances low flow measurement. 2 wire digital output compatible w/all irrigation controllers.
[Filter Symbol]	Hunter HY-100 1" MPT x MPT threaded inlet and outlet filter with 150 mesh stainless steel screen
[Water Meter Symbol]	Proposed Water Meter Owner to Provide a (1") potable water meter with a minimum size PE service line of 1.25 inches.
[Lateral Line Symbol]	Irrigation Lateral Line: PVC Schedule 40 Sch-40 solvent weld bell end PVC pipe. ASTM D2266. Use only Weld-on Medium body 721 Blue glue with P-70 purple primer. Apply solvent weld glue per manufactures instructions. See specifications and details for additional installation instructions.
[Mainline Symbol]	Irrigation Mainline: PVC Schedule 40 Sch-40 solvent weld bell end PVC pipe. Use only Weld-on Medium body 721 Blue glue with P-70 purple primer. Apply solvent weld glue per manufactures instructions. See specifications and details for additional additional instructions.
[Sleeve Symbol]	Pipe Sleeve: PVC Schedule 40 Sleeving sizes 1.5-inch thru 4-inch shall be Sch-40 pipe, Sleeving 6-inch and larger shall be Class 200 pipe. See details and specifications for additional installation instructions.

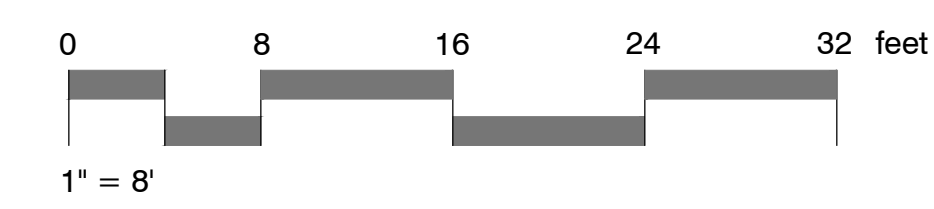
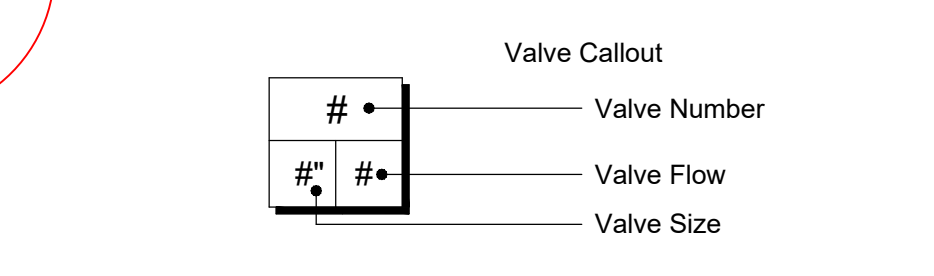
WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	SUN	MON	TUE	WED	THU	FRI	SAT	IN./WEEK	GAL./WEEK	GAL./DAY
1	Hunter PGV-101A	Area for Dripline	2.76 in/h		10 min		10 min		10 min	1.25	261	87.1	
2	Hunter PGV-101A	Turf Spray	2.33 in/h		12 min		12 min		12 min	1.3	503	168	
3	Hunter PGV-101A	Turf Spray	6.31 in/h		5 min		5 min		5 min	1.3	155	51.5	
4	Hunter PGV-101A	Bubbler	2.73 in/h		7 min		7 min		7 min	0.9	220	73.3	
5	Hunter PGV-101A	Turf Spray	6.21 in/h		5 min		5 min		5 min	1.3	141	47.0	
6	Hunter PGV-101A	Area for Dripline	3.44 in/h		8 min		8 min		8 min	1.25	66.3	22.1	
7	Hunter PGV-101A	Shrub Rotary	0.97 in/h		27 min		27 min		27 min	1.3	634	211	
8	Hunter PGV-101A	Turf Rotor	0.98 in/h		27 min		27 min		27 min	1.3	715	238	
9	Hunter PGV-101A	Turf Spray	4.3 in/h		7 min		7 min		7 min	1.3	272	90.7	
10	Hunter PGV-101A	Area for Dripline	2.78 in/h		10 min		10 min		10 min	1.25	275	91.6	
11	Hunter PGV-101A	Turf Spray	4.67 in/h		6 min		6 min		6 min	1.3	165	55.0	
12	Hunter PGV-101A	Bubbler	2.65 in/h		7 min		7 min		7 min	0.9	273	91	
13	Hunter PGV-101A	Area for Dripline	2.12 in/h		12 min		12 min		12 min	1.25	302	101	
14	Hunter PGV-101A	Turf Spray	1.9 in/h		14 min		14 min		14 min	1.3	738	246	
TOTALS:					157		157		157	1.3	4,720	1,573	

Note: Run times are base on SFWMD 10 year average rain fall, peak usage in July. Contractor / owner must adjust run time to current weather condition..

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	Hunter PGV-101A	1"	Area for Dripline	9.33	26.5	33.4	1.44 in/h
2	Hunter PGV-101A	1"	Turf Spray	14.79	26.6	33.6	2.33 in/h
3	Hunter PGV-101A	1"	Turf Spray	11.9	26.4	33.8	6.31 in/h
4	Hunter PGV-101A	1"	Bubbler	11	33.6	41.0	n/a
5	Hunter PGV-101A	1"	Turf Spray	10.86	26.4	33.9	6.21 in/h
6	Hunter PGV-101A	1"	Area for Dripline	3.02	26.2	33.7	1.44 in/h
7	Hunter PGV-101A	1"	Shrub Rotary	7.83	31.6	39.3	0.97 in/h
8	Hunter PGV-101A	1"	Turf Rotor	8.94	31.5	39.2	0.98 in/h
9	Hunter PGV-101A	1"	Turf Spray	14.32	26.5	33.9	4.3 in/h
10	Hunter PGV-101A	1"	Area for Dripline	9.81	26.6	33.8	1.44 in/h
11	Hunter PGV-101A	1"	Turf Spray	9.71	26.3	33.5	4.67 in/h
12	Hunter PGV-101A	1"	Bubbler	13	32.4	39.5	n/a
13	Hunter PGV-101A	1"	Area for Dripline	8.39	26.3	32.7	1.44 in/h
14	Hunter PGV-101A	1"	Turf Spray	17.57	27.2	33.3	1.9 in/h



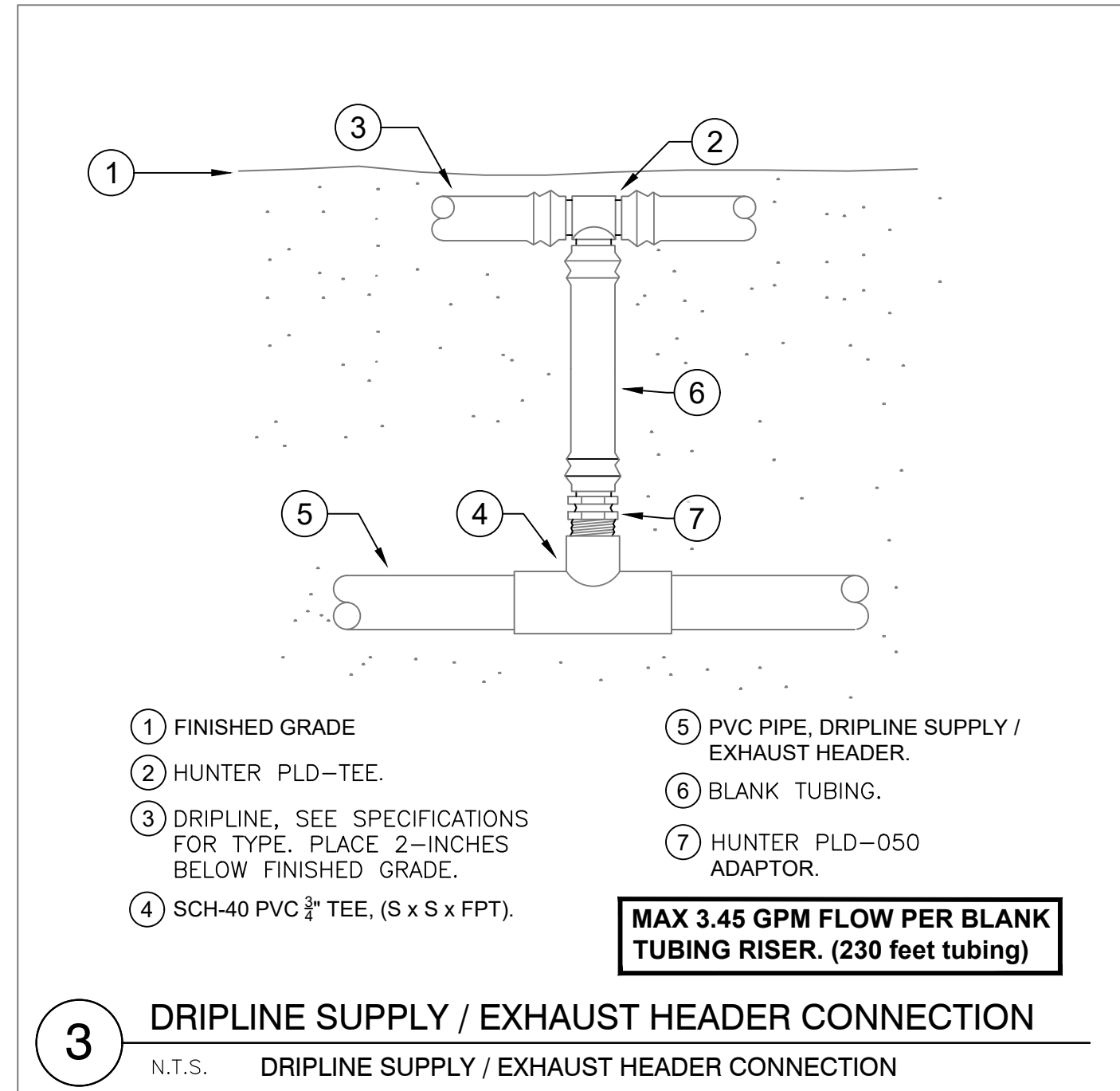
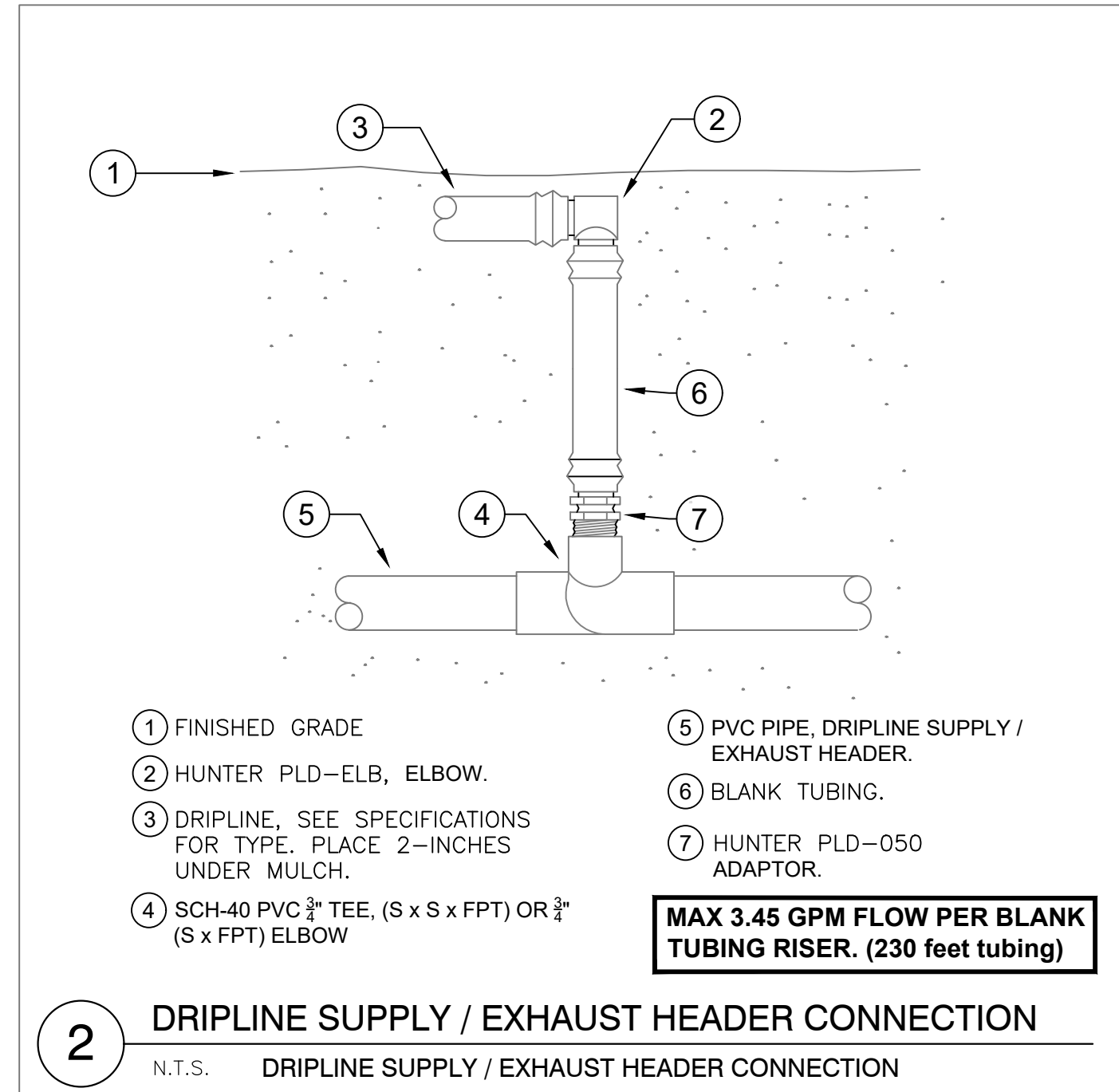
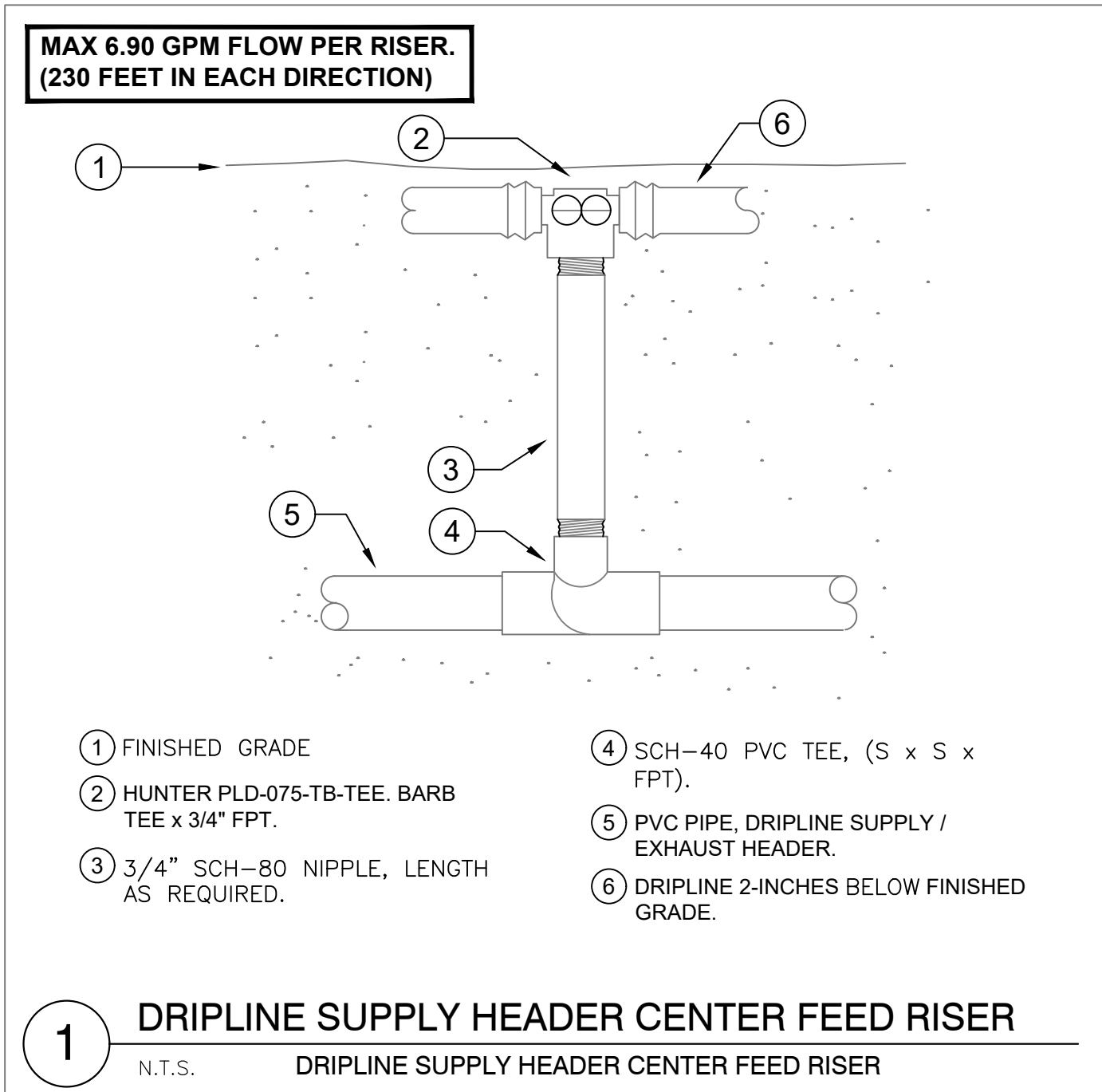
FDOT LANDSCAPE PERMIT NUMBER:  
 2023-L-496-00006

IRRIGATION PLAN

New Residence  
 3521 S. Ocean Blvd  
 Highland Beach, FL., 33487



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 of 3



**DRIPLINE SPECIFICATIONS:**

- DRIPLINE; HUNTER HDL-CV-GOP, ROW SPACING 12-INCHES. DRIPLINE LAY-OUT IS BASED ON 30 PSI. IF PRESSURE BY SOLENOID VALVE IS HIGHER THAN 50 PSI, INSTALL A AS-50 ON SOLENOID VALVE.
- INSTALL DRIPLINE SYSTEM IN THE FOLLOWING ORDER: A). WITH ALL MAINLINE AND IT'S ASSOCIATE EQUIPMENT COMPLETELY INSTALLED, FLUSH MAINLINE TILL FREE AND CLEAR OF DEBRIS. B). INSTALL ALL LATERALS TO THE VARIOUS DRIPLINE GRIDS, AND SUPPLY HEADERS WITH RISERS EXTENDED ABOVE GROUND. CENTER FEED RISERS, TEMPORARY EXTEND NIPPLES WITH PIPE AND COUPLINGS (DO NOT GLUE). FLUSH TILL FREE AND CLEAR OF DEBRIS, TEMPORARY CAP NIPPLES, SEAL BLANK TUBING (RISERS) WITH TAPE. C). INSTALL EXHAUST HEADERS - RISERS - FLUSH POINTS. D). INSTALL DRIPLINE, STAPLE TUBING PER DETAIL #5, CONNECT DRIP TUBING TO SUPPLY HEADER RISERS. FLUSH TILL FREE AND CLEAR OF DEBRIS. E). CONNECT DRIPLINE GRID TO EXHAUST HEADER RISERS, FLUSH SYSTEM USING "FLUSH VALVE". PVC DISCHARGE AND EXHAUST HEADERS MUST BE BURIED WITH MINIMUM 6" COVER. MULCH IS NOT CONSIDERED AS COVERAGE.
- INSTALL OPERATION INDICATORS "OI" WITHIN 12-INCHES OF FLUSH POD, ONE AT END OF EACH DRIPLINE. SEE DETAIL #6. ACTIVATE DRIPLINE, ENSURE ALL OPERATION INDICATORS ARE FULLY EXTENDED, ADJUST STREAM SPRAY TO WHERE IT CAN EASILY BE SEEN BY MAINTENANCE PERSON.
- PRESSURE TEST WITH OWNERS REPRESENTATIVE PRESENT; PER ZONE, TEMPORARY INSTALL (2) PRESSURE GAUGES (LIQUID FILLED PRESSURE GAUGES) ON (2) FLUSH POINTS, (1) ON LARGEST GRID "FLUSH POINT" AND THE OTHER ON FARTHEST GRID "FLUSH POINT". ACTIVATE ZONE, AFTER FLOW HAS STABILIZED, VERIFY ALL ZONE OPERATION INDICATORS ARE FULLY EXTENDED, CHECK PRESSURE ON BOTH GAUGES, PRESSURE MUST BE 20 PSI OR HIGHER TO PASS TEST. IF TEST FAILS, CONTRACTOR TO LOCATE AND CORRECT PROBLEM AND RETEST. IT IS IN THE CONTRACTORS BEST INTEREST TO PERFORM HIS OWN TEST BEFORE HE CALLS OWNERS REPRESENTATIVE PRESENTS TO AVOID RE-INSPECTION FEE'S.
- PRESSURE TEST RESULTS SHALL BE NOTED AS-BUILD DRAWING BY THE "FLUSH VALVE" WHERE TESTS WERE TAKEN. ALL "FLUSH VALVE" LOCATIONS SHALL BE INCLUDED IN AS-BUILD DRAWINGS.

Scale: 1" = 8'

Design Date: 03-28-2022

Drawn By: RT

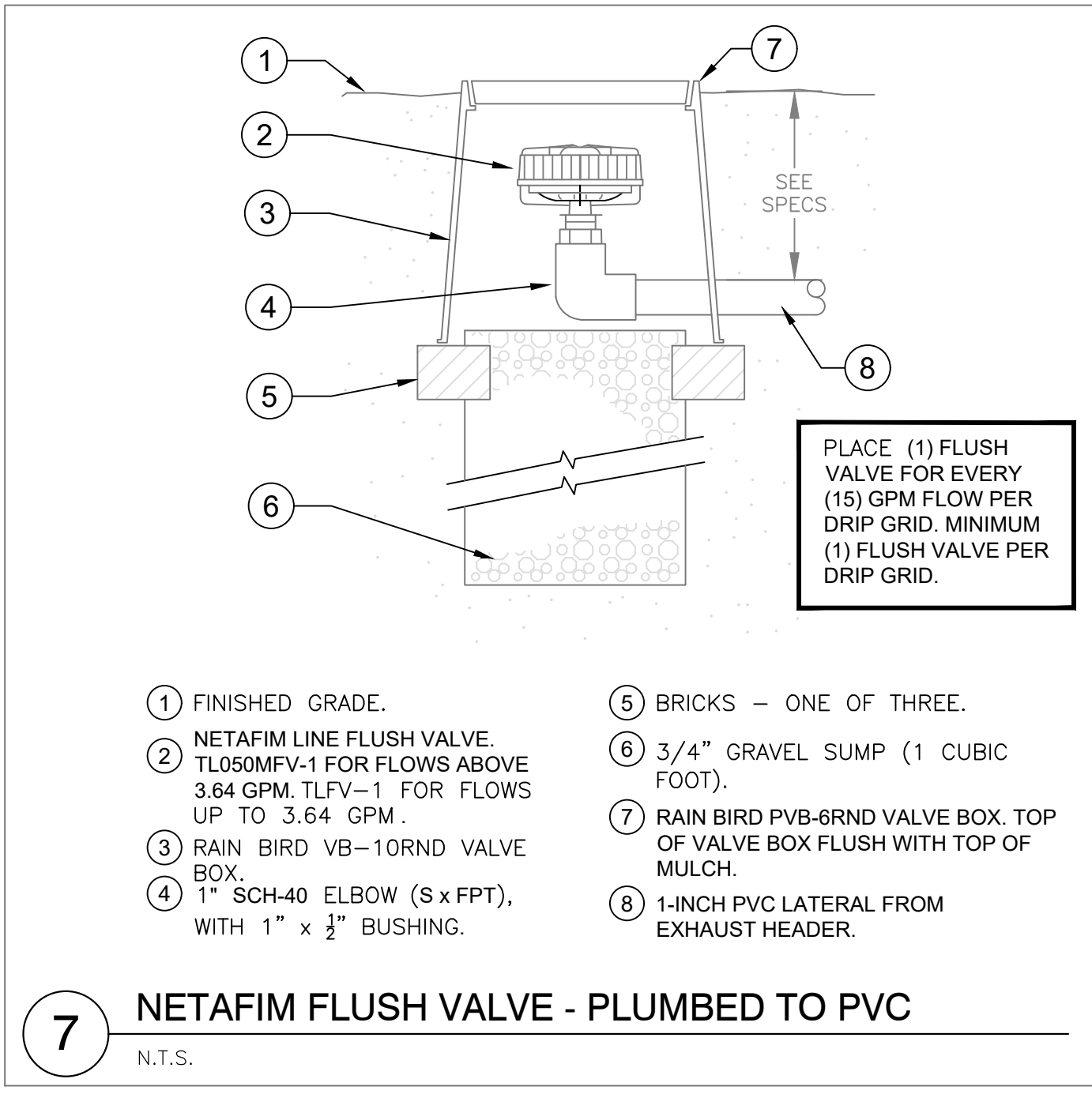
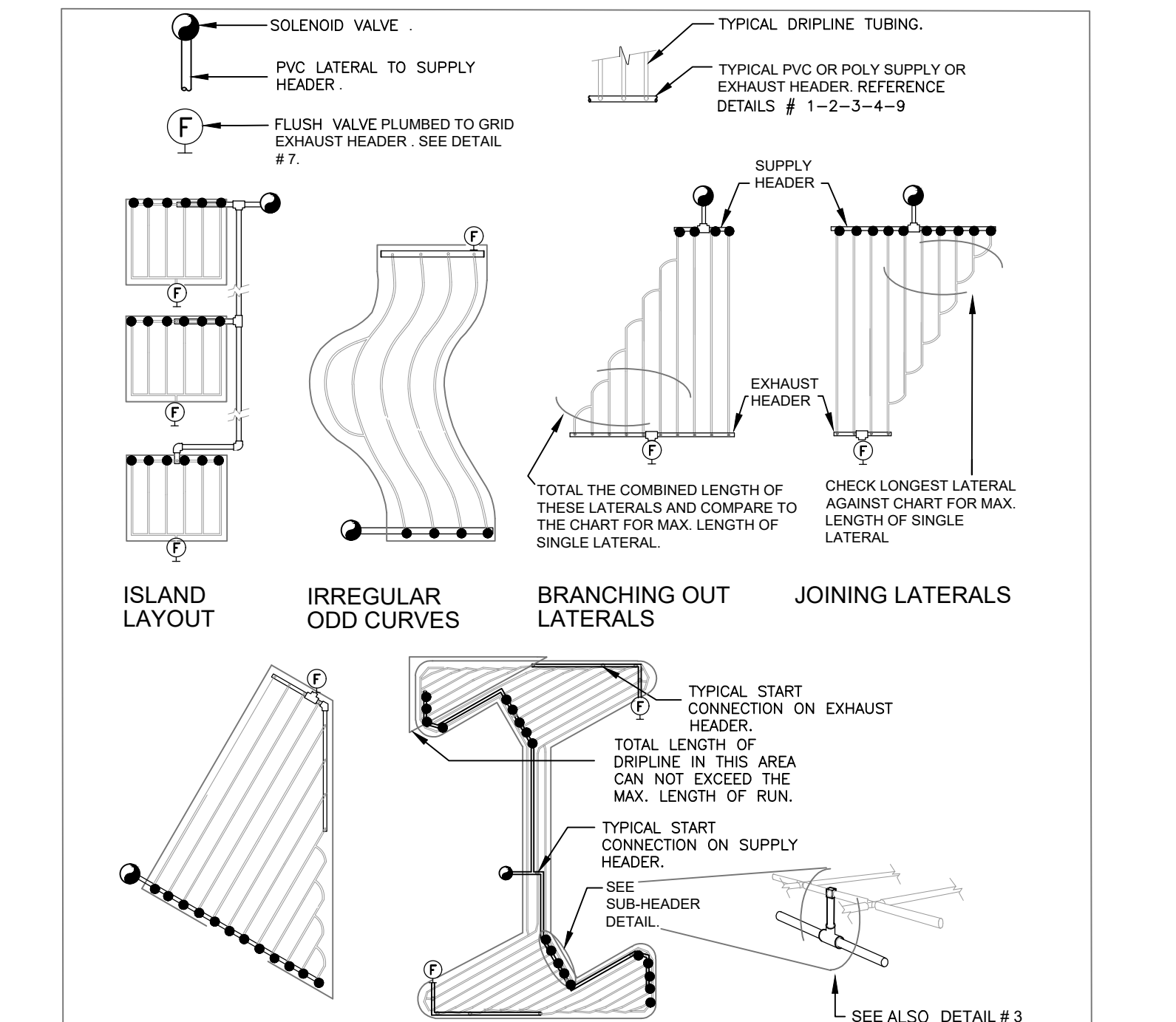
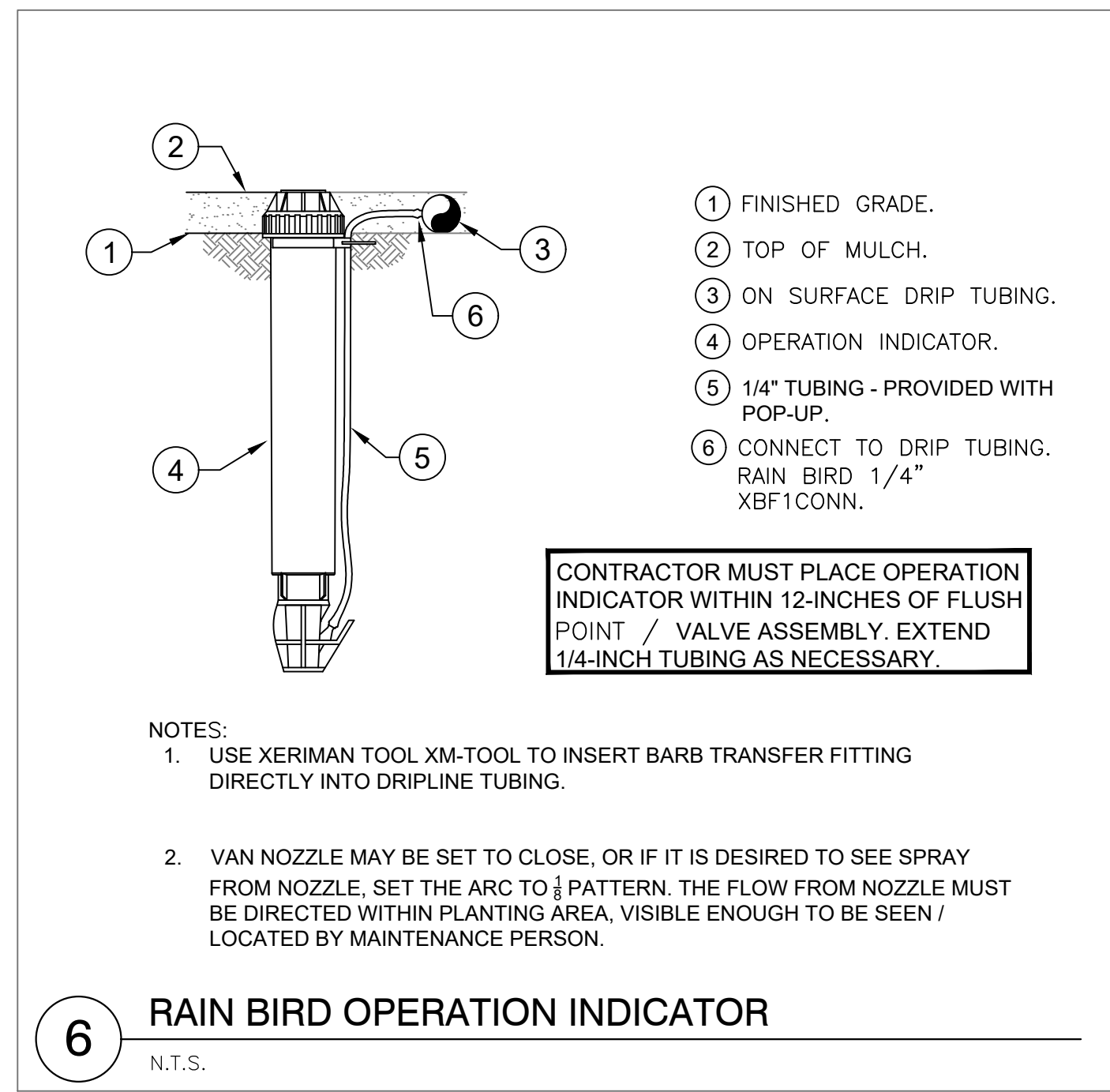
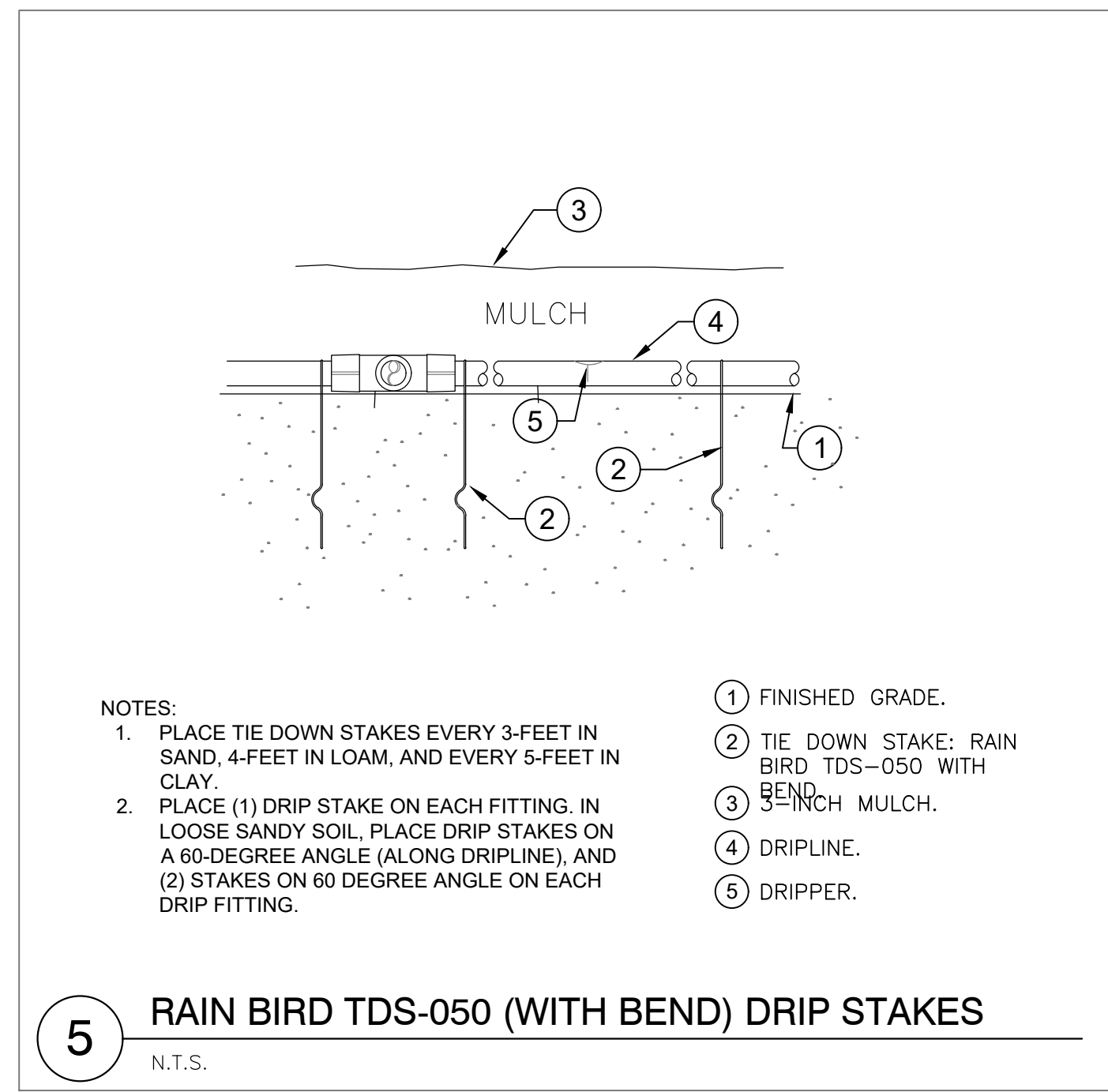
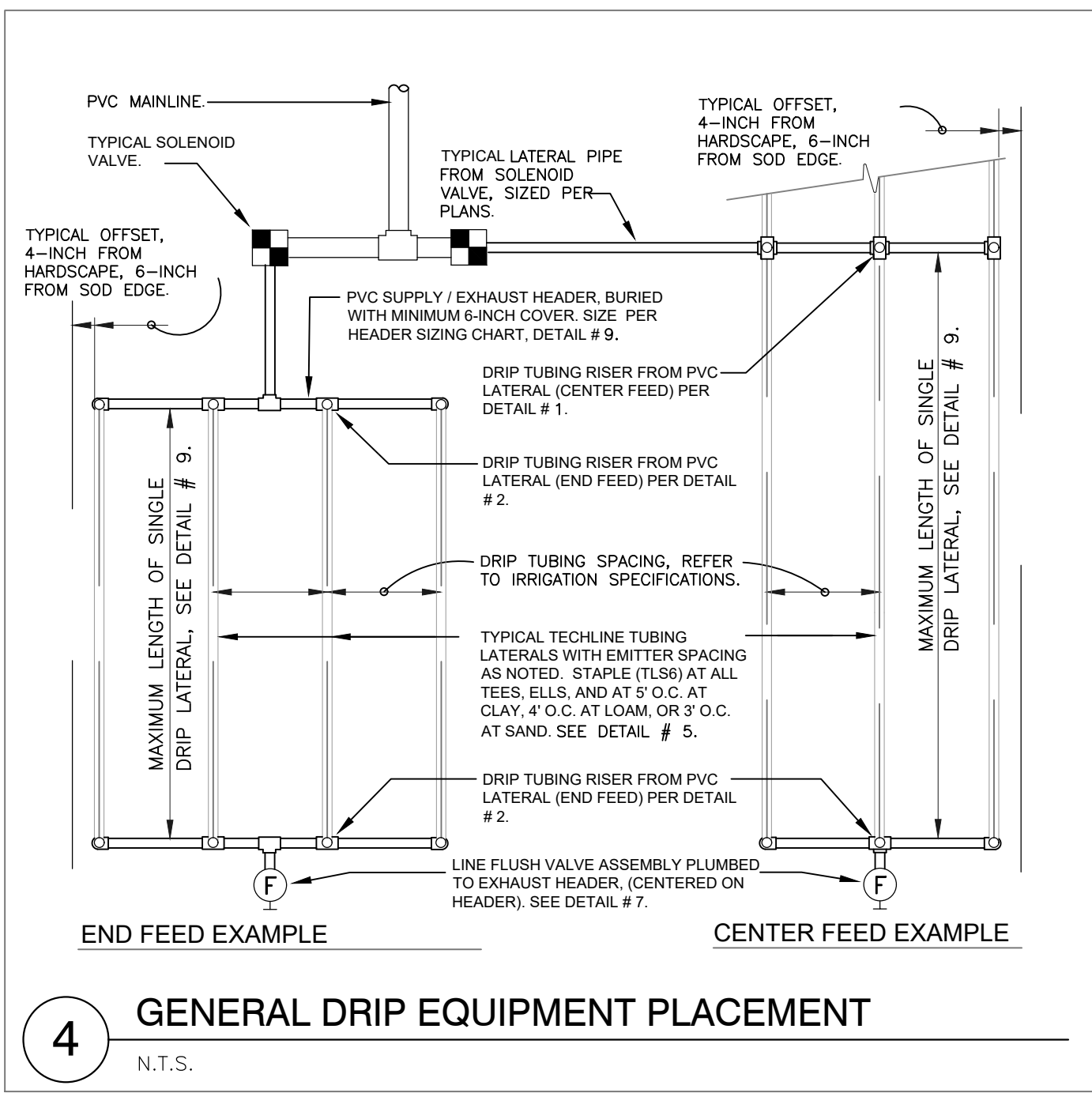
Last Date: 08-16-2024

Modified:

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6	

Revisions:

IRRIGATION  
DRIPLINE DETAILS



**HDL-COP DRIPLINE GENERAL GUIDELINES FOR WATERING TIME**

	TURF			SHRUB & GROUND COVER		
	CLAY	LOAM	SANDY	CLAY	LOAM	SANDY
DRIPLINE FLOW (GPH)	0.40	0.60	0.90	0.40	0.60	0.90
DRIPLINE INTERVAL	24"	12"	12"	24"	18"	12"
LATERAL (ROW) SPACING	18"-24"	12"	9"-12"	18"-24"	18"-24"	12"-18"
APPLICATION RATE (IN/HR)	.22-.17	.96	1.93-1.44	.22-.17	.43-.32	1.44-.96
TIME TO APPLY 1/4"	68-88	16	8-10	68-88	35-47	10-16

**8 HUNTER HDL-COP DRIPLINE TABLE - 1**  
N.T.S.

**HUNTER HDL-COP MAXIMUM LENGTH OF SINGLE LATERAL (FEET)**

DRIPLINE SPACING	12"			18"			24"		
	0.4	0.6	0.9	0.4	0.6	0.9	0.4	0.6	0.9
15	285	236	164	404	333	233	423	292	
20	339	280	192	475	395	273	501	348	
30	411	339	236	582	482	333	610	419	
40	463	385	267	657	545	376	688	479	

**HUNTER HDL-COP FLOW PER 100 FEET**

DRIPLINE SPACING	GPM	0.4 GPH DRIPPER	0.6 GPH DRIPPER	0.9 GPH DRIPPER
12"	40.00	0.67	60.00	1.00
18"	26.67	0.44	40.00	0.67
24"	20.00	0.33	30.00	0.50

**SUPPLY AND EXHAUST HEADER SIZING CHART (UNLESS NOTED ON PLANS)**

STEP 1: ADD LENGTH OF ALL TECHLINE LATERAL TUBING CONNECTED TO THE HEADER.  
STEP 2: DIVIDE THIS TOTAL LENGTH BY 100 TO INDICATE THE LENGTH IN UNITS OF 100.  
STEP 3: LOCATE THE GPM THAT APPLIES FOR EACH UNIT OF 100 FEET LENGTH ON THE CHART "TECHLINE FLOW PER 100 FEET". MULTIPLY THIS GPM NUMBER TIMES THE UNITS OF 100 FEET FOR THE TOTAL GPM AT THIS HEADER.  
STEP 4: SIZE THE HEADER WITH THE FOLLOWING:  
1 TO 6 GPM: 3/4" HEADER.  
6 TO 10 GPM: 1" HEADER.  
10 TO 20 GPM: 1 1/4" HEADER.  
20 TO 30 GPM: 1 1/2" HEADER.

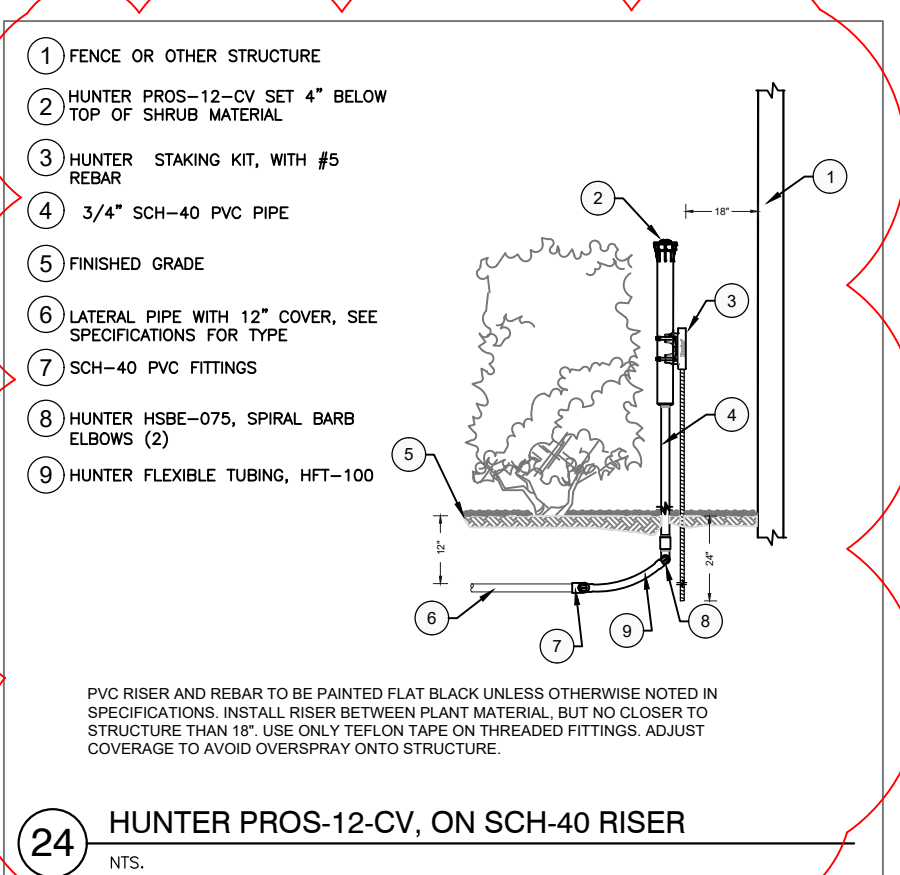
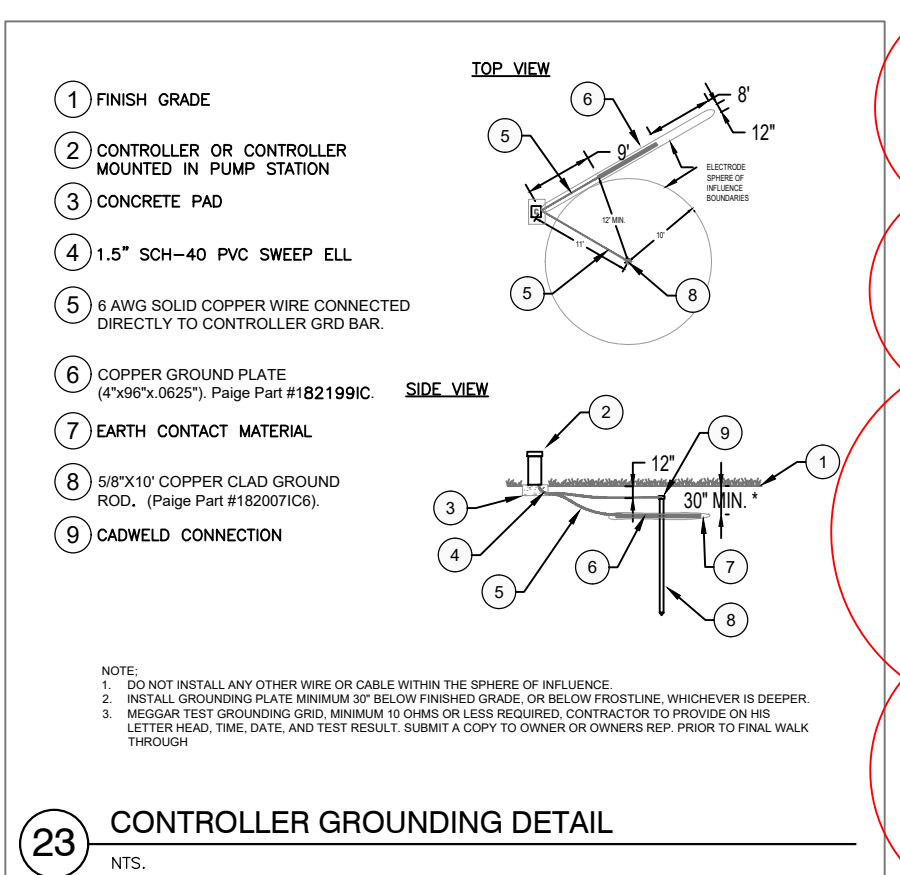
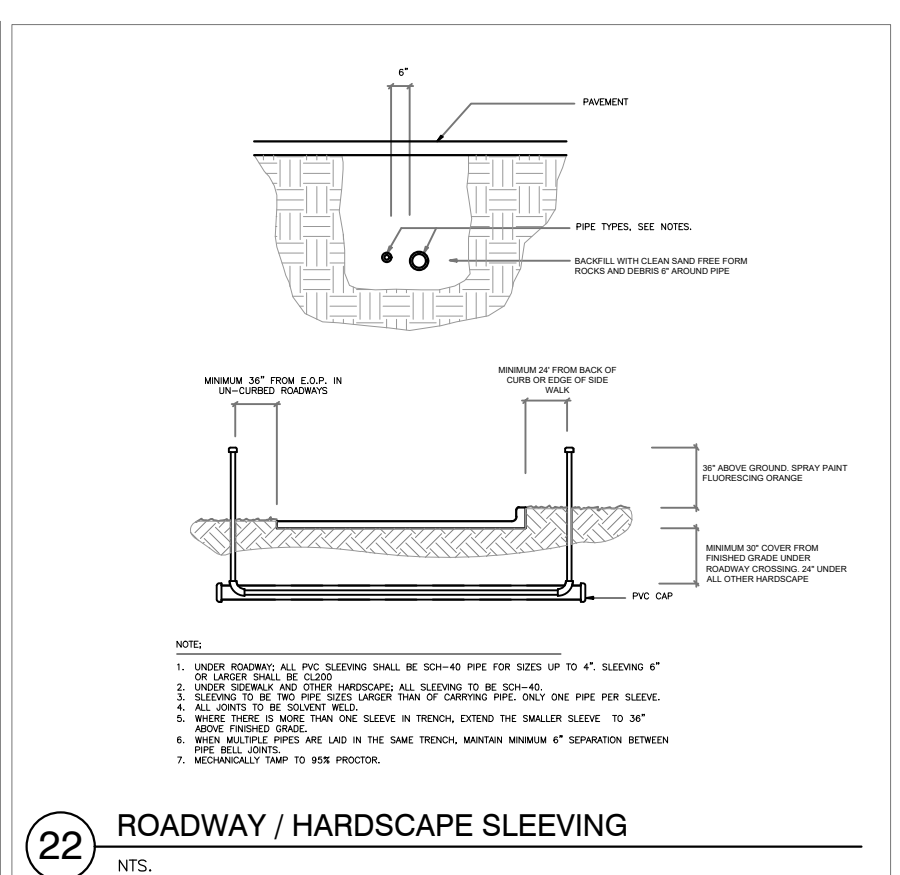
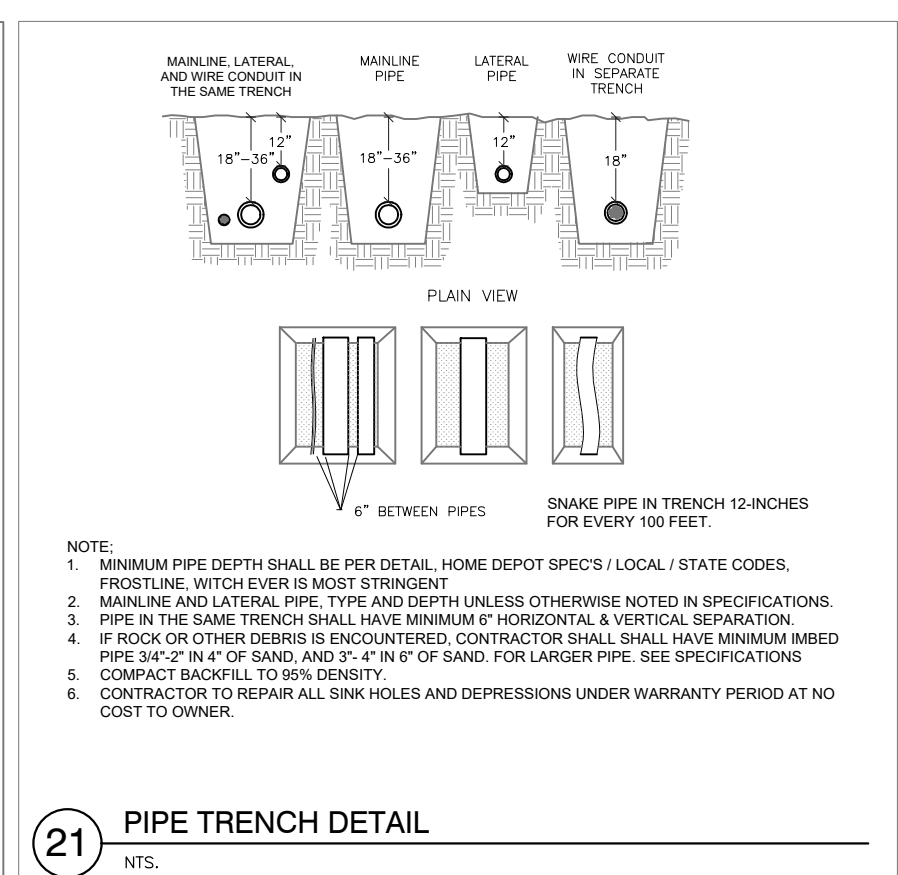
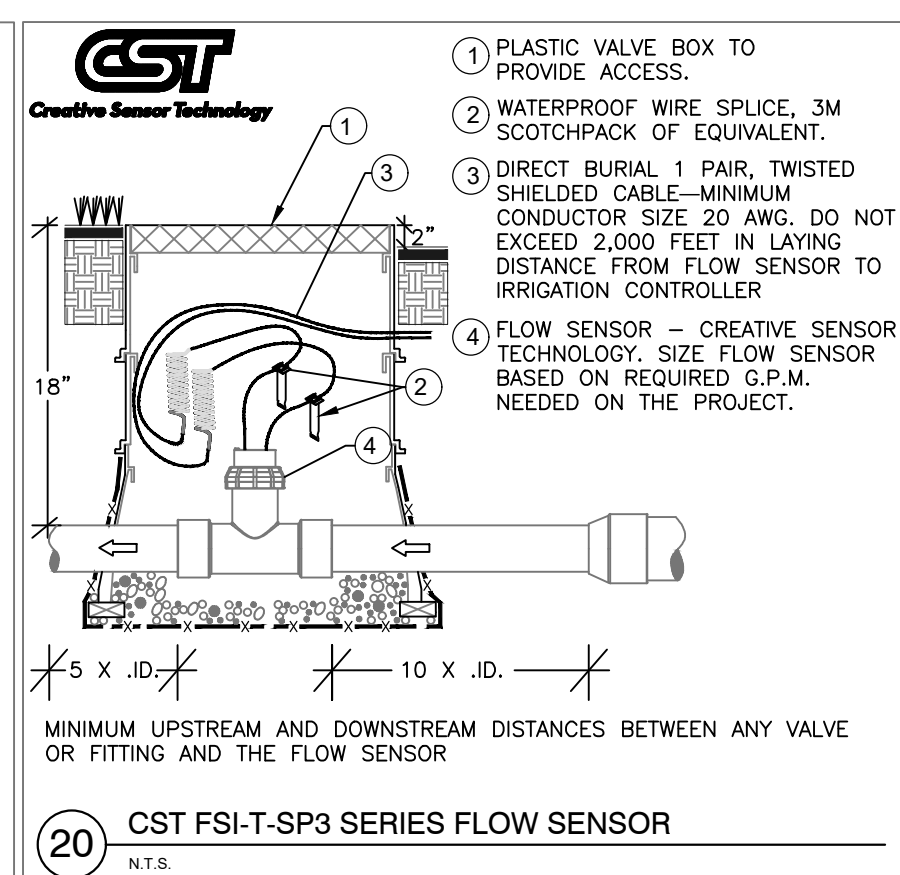
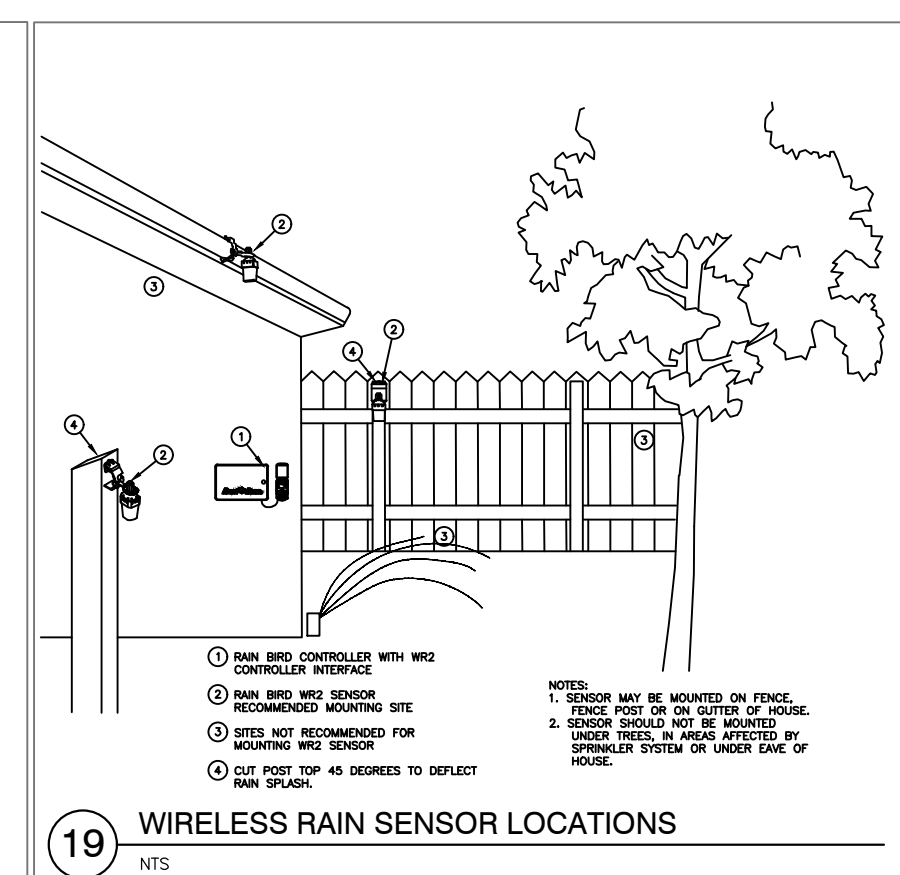
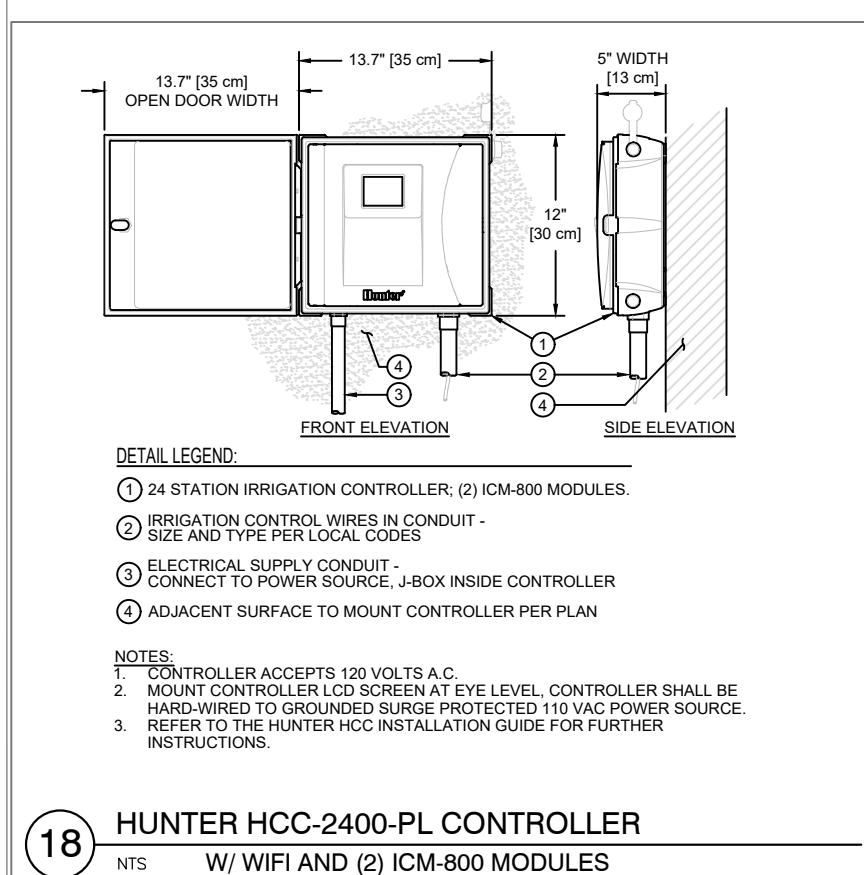
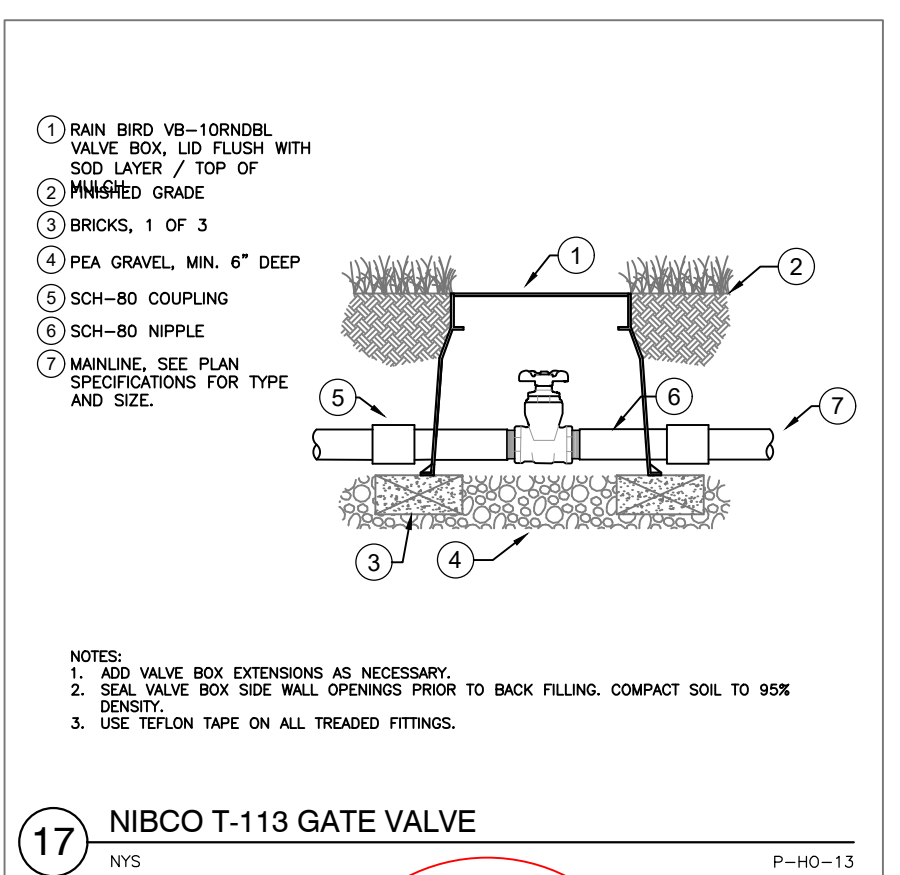
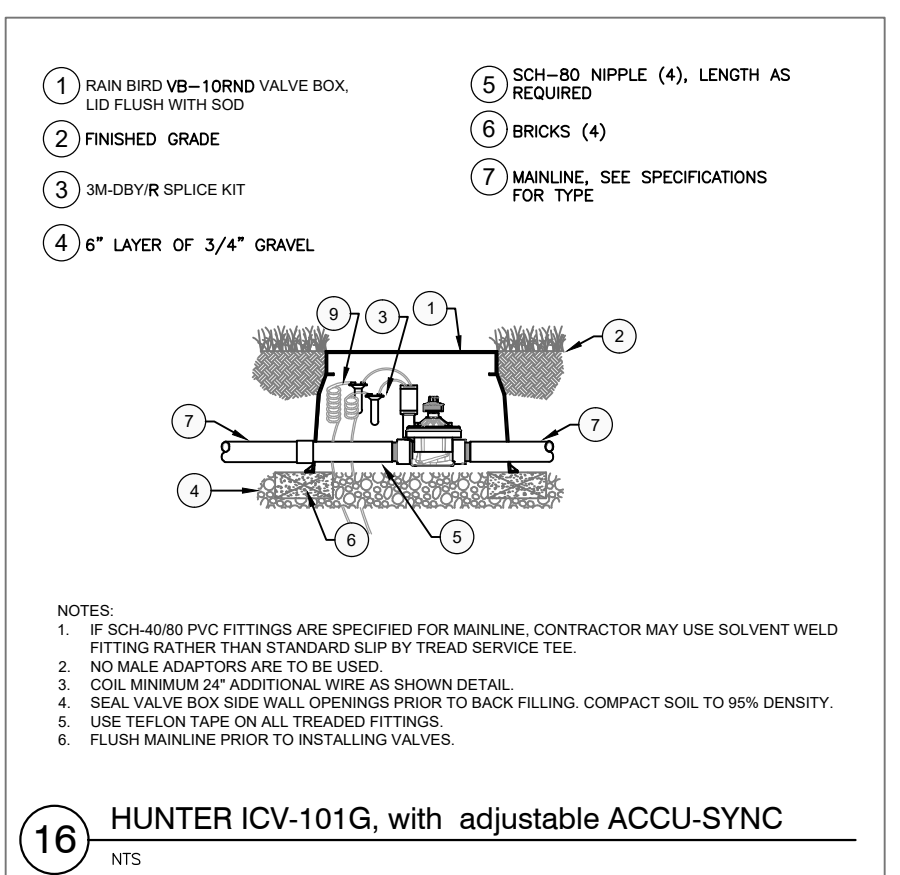
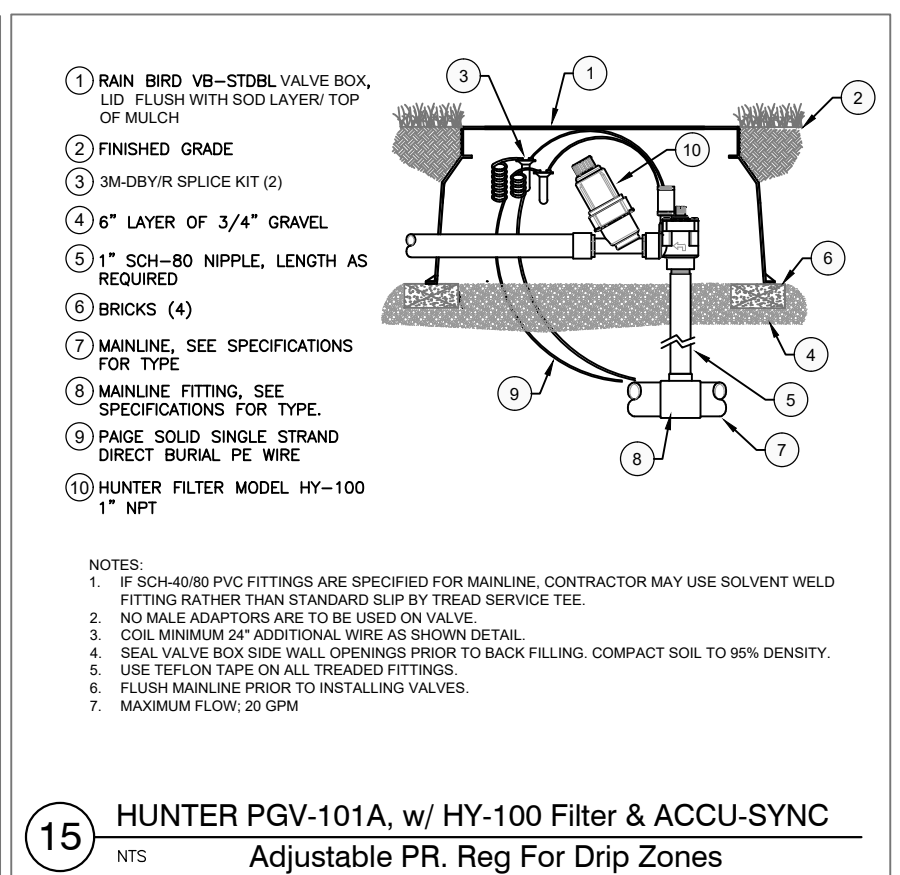
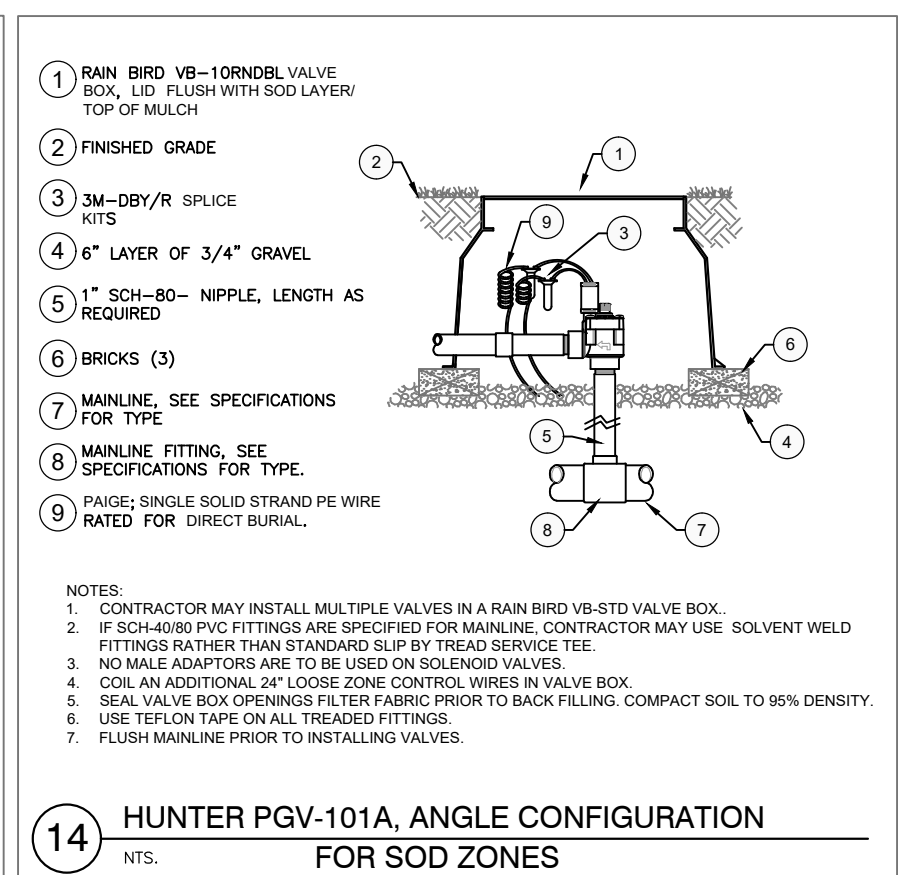
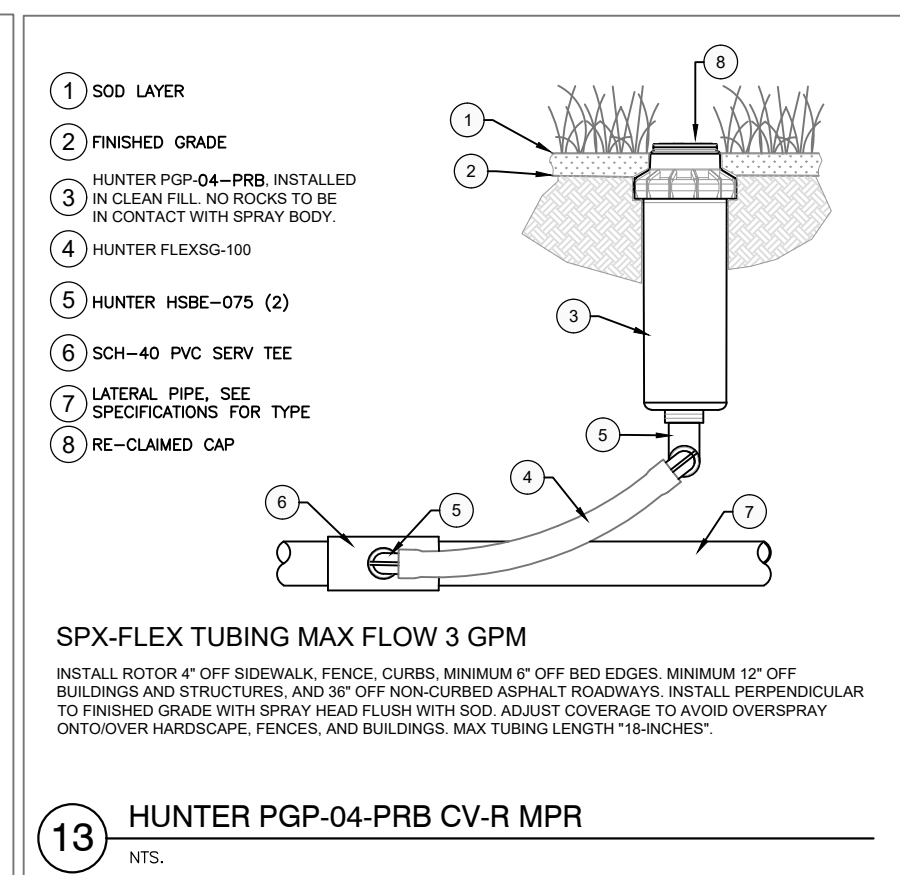
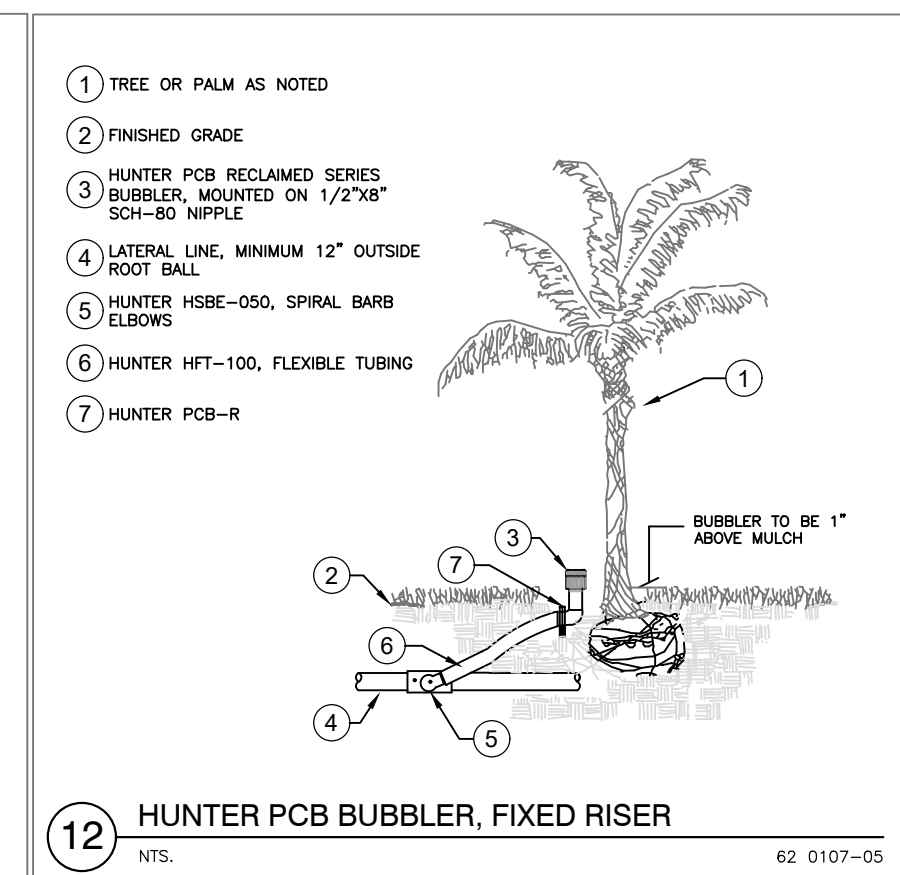
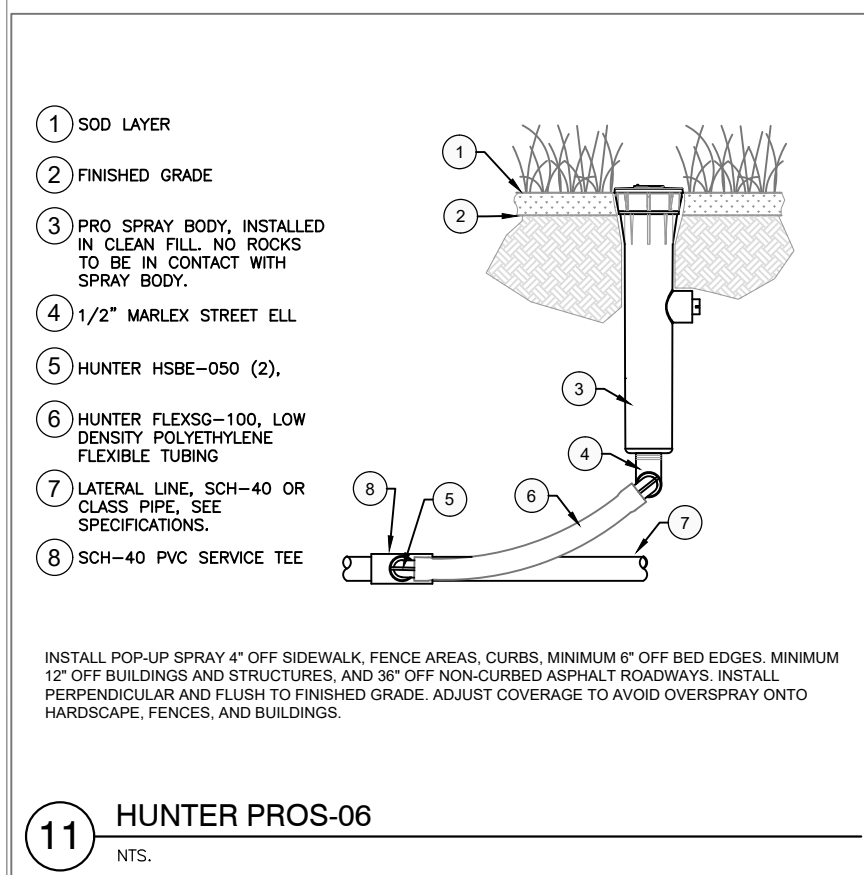
**9 HUNTER HDL-COP DRIPLINE TABLE - 2**  
N.T.S.

New Residence  
3521 S. Ocean Blvd  
Highland Beach, FL, 33487



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of 3

FDOT LANDSCAPE PERMIT NUMBER:  
2023-L-496-00006



**DELTA 1 (IRRIGATION MODIFIED)**  
**SPRAY HEADS, DRIP LINE, and BUBBLERS**

TURF HEADS ON THE NORTH SIDE OF DRIVEWAY WERE MODIFIED TO ACCOMMODATE A LARGER TURF AREA.

TURF SPRAY HEADS ON EAST SIDE OF THE HOUSE WERE MODIFIED TO ACCOMMODATE A LARGER TURF AREA.

TURF SPRAYS HEADS WERE MODIFIED ON THE SOUTH SIDE OF MAIN ENTRANCE TO THE HOUSE TO ACCOMMODATE THE NEW LANDSCAPE LAYOUT.

TURF SPRAY HEADS WERE MODIFIED ON THE SOUTH SIDE OF DRIVEWAY TO THE HOUSE TO ACCOMMODATE A SMALLER TURF AREA.

DRIPLINE LAYOUT WAS MODIFIED ON THE WEST SIDE OF THE PARKING AREA OF ACCOMMODATE THE REDUCED PLANTING AREA.

DRIPLINE LAYOUT WAS MODIFIED ON THE SOUTH SIDE OF THE MAIN ENTRANCE OF THE HOUSE TO ACCOMMODATE THE NEW LANDSCAPE LAYOUT.

ONE BUBBLER WAS REMOVED FROM THE PLANTING AREA TO THE WEST OF THE PARKING.

ALL IRRIGATION COMPONENTS HAVE BEEN REMOVED FROM THE EXISTING DUNE AREA.

**VALVES**

THE VALVES ALONG THE NORTH PROPERTY LINE HAVE BEEN RECONFIGURED TO ACCOMMODATE THE REVISED LANDSCAPE DESIGN. THE ORIGINAL PALM AND NEW BOTH HAVE 6 VALVES ALONG THIS PROPERTY LINE BUT THE SPACING HAS BEEN MODIFIED.

THE ORIGINAL PLAN HAD ONE VALVE ON THE EAST SIDE OF THE HOUSE AND THE NEW PLAN HAS ONE ON THE EAST SIDE OF THE HOUSE.

THE ORIGINAL PLAN HAD 10 VALVES ALONG THE SOUTH PROPERTY LINE. THE NEW PLAN HAS 4 VALVES ALONG THE SOUTH PROPERTY LINE TO ACCOMMODATE THE MODIFIED LANDSCAPE LAYOUT.

THE ORIGINAL PLAN HAD 1 VALVE WEST OF THE PARKING AREA AND THE NEW PLAN HAS 2 VALVES TO ACCOMMODATE THE NEW LANDSCAPE LAYOUT.

**DELTA 2 (VALVE SCHEDULE MODIFICATIONS)**  
 THE ORIGINAL PLAN HAD A TOTAL OF 18 VALVES AND THE NEW PLAN HAS A TOTAL OF 14 VALVES.

**DELTA 3 (WATERING SCHEDULE MODIFICATIONS)**  
 THE ORIGINAL PLAN HAD A TOTAL OF 18 VALVES IN THE WATERING SCHEDULE WITH A TOTAL GALLON PER DAY OF 1,554. THE NEW PLAN HAS A TOTAL 14 VALVES WITH A TOTAL GALLON PER DAY OF 1,573.

**DELTA 4 (DETAIL)**

DETAIL #4 was added to show the installation contractor how to install the irrigation rotary heads in the dune area (zone #7).

**NOTES:**

- CONTRACTOR MUST VISIT SITE PRIOR TO SUBMITTING HIS BID TO GET A VISUAL PICTURE OF THE COMPLEXITY, TREE / PALM LOCATIONS AND STRUCTURAL OBSTRUCTIONS THAT HE WILL NEED TO TAKE IN CONSIDERATION. THIS WILL ALSO REQUIRE WORKING WITH LANDSCAPE CONTRACTOR FOR PALM / TREE LOCATION AND OBTAINING INFORMATION ON THE WIDTH AND DEPTH OF ROOT BALLS AND OWNER FOR LOCATION OF NEW AND EXISTING UTILITIES.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE INSTALLATION OF THIS IRRIGATION SYSTEM IS INSTALLED ACCORDING TO FLORIDA STATE PLUMBING CODE APPENDIX "F", LOCAL CODES ITS AMENDMENTS, AND PER ALL MANUFACTURERS INSTALLATION RECOMMENDATIONS / REQUIREMENTS. WORK SHALL BE SECURED FOR PUBLIC HAZARDS ACCORDING TO O.S.H.A. REGULATIONS. A COPY OF CURRENT LOCATING TICKET SHALL BE ON SITE DURING WORK. NEW ON SITE UTILITIES, POOL PIPING AND SO ON; CONTRACTOR MUST WORK OWNER FOR THE LOCATION OF THESE UTILITIES PRIOR TO COMMENCING WORK.
- IRRIGATION PLANS; PIPE LAY-OUT AND ZONE VALVE EQUIPMENT SHOWS THE INTENDED ROUTING, CONTRACTOR MUST NEGOTIATE THE PIPE ROUTING THROUGH ALL THE OBSTRUCTION IN THE FIELD IN THE MOST EFFICIENT MANNER. VERIFY THAT ALL CORE DRILL LOCATIONS ARE NOT IN FRONT OF A FUTURE PALM/TREE ROOT BALL.
- PRIOR TO COMMENCING WORK, CONTRACTOR MUST VERIFY MINIMUM FLOW & PRESSURE OF; 18.5 GPM @ 45 PSI. HE/SHE MUST PERFORM A FIVE DAY PRESSURE TEST (MONDAY THRU. FRIDAY) USING DIGITAL RECORDER MOUNTED IN THE BACKFLOW TEST COCK (UP STREAM OF CHECK VALVE). IF PRESSURE IS SHOWN BELOW DESIGN MINIMUMS AT ANY GIVEN TIMES DURING NORMAL IRRIGATION HOURS, HE/SHE MUST SEND TEST RESULTS IN PDF FORMAT TO OWNER & LANDSCAPE ARCHITECT FOR REVIEW AND WAIT FOR INSTRUCTIONS ON HOW TO PROCEED.
- RAIN SENSOR; HUNTER WR-CLIK. MOUNT IN A LOCATION THAT HAS A MINIMUM OF A 12-FOOT RADIUS CLEAR OF VERTICAL OBSTRUCTIONS AS WELL AS OUT OF AIRFLOW FROM A/C UNITS.
- PIPING; ALL LATERAL, MAINLINE AND SLEEVE PIPING IN SHALL BE SCH-40, BURIED WITH MINIMUM COVERAGE AS SHOWN IN DETAIL #21 & #22. KEEP ALL PIPES MINIMUM 18-INCHES OFF VERTICAL STRUCTURES. ALL PIPE FITTINGS SHALL BE SCH-40. ALL WIRE CONDUIT SHALL BE SCH-40 USING SWEEP ELBOWS IN ALL DIRECTIONAL TURNS. ABOVE GROUND PIPING SHALL BE SECURED TO WALL OR ELECTRICAL RACK ("C" CHANNEL) EVERY 3-FEET.
- CONTROLLER; HUNTER HCC-800-PL w/ (2) ICM-800 MODULES - 24 STATION CONTROLLER, WIFI, FLOW SENSING WALL MOUNT CONTROLLER, SET CONTROLLER DISPLAY MINIMUM 5-FOET ABOVE FINISHED GRADE. OBTAIN OWNERS APPROVAL FOR PROPOSED CONTROLLER LOCATION AND LOCATION OF RAIN SENSOR. CONTRACTOR TO INSTALL (2) CONTROLLER GROUNDING PLATES RATHER THAN A ROD AND PLATE AS SHOWN ON DETAIL #23 INSTEAD OF COORDINATE WITH OWNER FOR POWER TO CONTROLLER.
- FLOW SENSOR; CST FSI-T-SP3 SERIES (1"). INSTALL PER DETAIL #20, COMMUNICATION WIRE- USE PAIGE 2-PAIR 18 GAUGE SHIELDED CABLE WITH DRAIN WIRE (P7171D-A-Rev 7).GROUND DRAIN-WIRE IN CONTROLLER BUSS BAR. RUN CABLE IN IN A CONDUIT THAN ZONE CONTROL WIRES.
- WIRES; ALL ABOVE AND BELOW GROUND WIRES SHALL BE INCASED IN A SCH-40 CONDUIT. ALL WIRE CONDUIT DIRECTIONAL CHANGES SHALL COMPLETED USING SWEEP ELBOWS. ALL MAINLINE SLEEVING SHALL HAVE A 1.25-INCH SCH-40 WIRE CONDUIT. ZONE CONTROL WIRES SHALL BE; 18 GAUGE SINGLE SOLID STRAND RATE FOR DIRECT BURIAL. HOT WIRES TO BE 18 GAUGE YELLOW, COMMON WIRES 18 GAUGE WHITE AND BLUE 18 GAUGE SPARE WIRES (MINIMUM TWO IN EACH DIRECTION). ALL SPICES TO BE PERFORMED IN VALVE BOXES USING 3M-DBY OR HUNTER "DBRY100" SPLICE KITS. LOOP ALL WIRES INTO ALL ZONE VALVE BOXES LEAVING ADDITIONAL 30-INCHES LOOSE WIRE COILED UP AND PLACED TO THE SIDE IN VALVE BOX. CONTRACTOR TO ADD ADDITIONAL SPLICE BOXES AS NEEDED.
- ZONE VALVES; ALL DRIP ZONE VALVES SHALL HAVE A 1-INCH FILTER AND ACCU-SYNC ADJUSTABLE PRESSURE REGULATOR, SEE DETAIL #15, ALL OTHER ZONES PER DETAILS #14 & 16. ZONE VALVES SHOWN OUTSIDE PROPERTY IS FOR GRAPHIC CLARITY, TO BE PLACED WITHIN PROPERTY - OUT OF VIEW IN MULCH BEDS WHENEVER POSSIBLE.
- POP-UP HEADS; INSTALL PER DETAILS #11 / #13 / #24, PLACED AS SHOWN PER PLANS. ADJUST LOCATION FOR CURRENT CONDITIONS TO MAXIMIZE COVERAGE. USE RADIUS REDUCTION SCREW ON NOZZLE AND OR ADJUST HEAD AS NEEDED (HEAD SPACING SHALL BE THE SAME AS RADIUS OF THROW).
- FINAL WALK THROUGH; PROVIDE OWNER WITH AN ASBULT DRAWING SHOWING LOCATION OF ALL EQUIPMENT, SLEEVING ENDS (BOTH ENDS), CORE DRILL LOCATION WITH MINIMUM TWO POINTS REFERENCE FROM FIXED STRUCTURES. PROVIDE "OWNERS MANUALS FOR ALL EQUIPMENT. IF WIFI LINK IS NOT AVAILABLE, ACTIVATE ALL ZONES FROM CONTROLLER - TEST RAIN SENSOR SHUT-OFF ON RANDOM ZONES. CONTRACTOR TO ASSIST OWNER IN LINKING CONTROLLER AND PHONE OR COMPUTER TO ONLINE HYDRAWISE SOFTWARE. PROVIDE OWNER WITH A (1) YEAR WARRANTEE FOR ALL MATERIAL AND LABOR.

FDOT LANDSCAPE PERMIT NUMBER:  
 2023-L-496-00006

Scale: 1" = 8'

Design Date: 03-28-2022

Drawn By: RT

Last Date: 08-16-2024

Revisions:

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IRRIGATION DRIP DETAILS

**New Residence**  
 3521 S. Ocean Blvd  
 Highland Beach, FL., 33487

NORTH

REGISTERED LANDSCAPE ARCHITECT  
 STATE OF FLORIDA  
 No. 12345  
 J. B. Smith

IR-3  
 of 3

Project # 2022-0328\_HB