

# Venezia

## Landscape Architecture

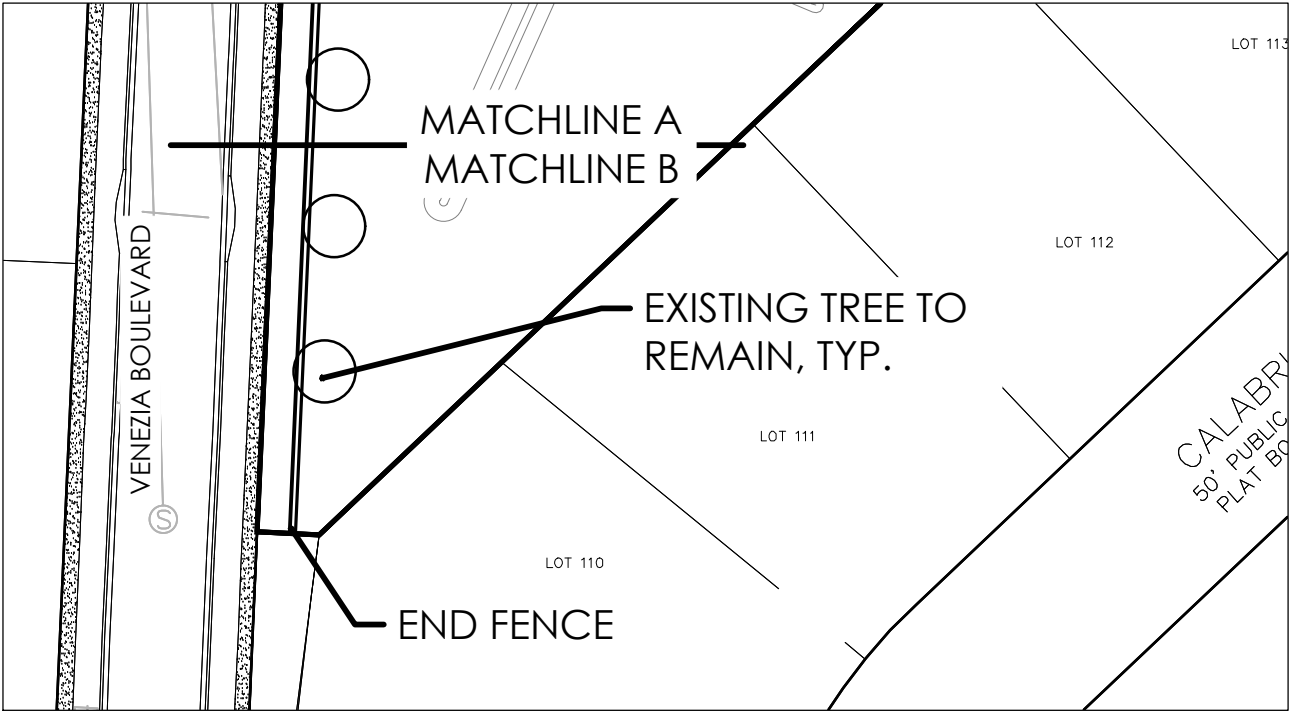
D.R. Horton  
Howey-in-the-Hills, Florida

### OVERALL LAYOUT PLAN

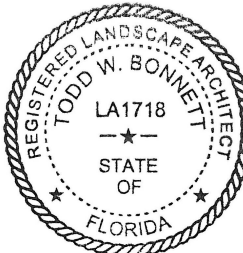
Town Comments 01-19-2022

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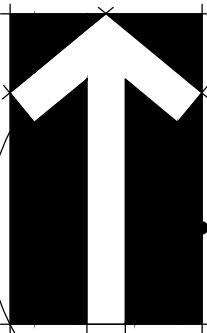
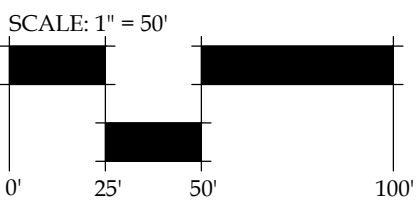
L200



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# L201B

# L201A

STREET LIGHT, TYP. SEE  
DETAIL 5/L302. FINAL  
LAYOUT TO BE PROVIDED  
BY DUKE ENERGY

FENCE, SEE DETAIL 4/L302. TO BE  
LOCATED ADJACENT TO TOP OF  
WALL. REFER TO CIVIL PLANS FOR  
WALL LOCATION.

MESSINA PLACE  
50' PUBLIC RIGHT-OF-WAY  
VARIABLE ASPHALT PAVED ROAD  
PLAT BOOK 65, PAGE 92

MATCHLINE A  
MATCHLINE B

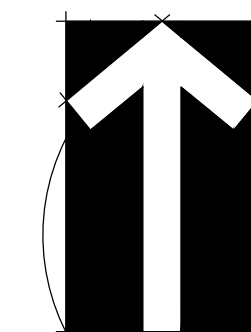
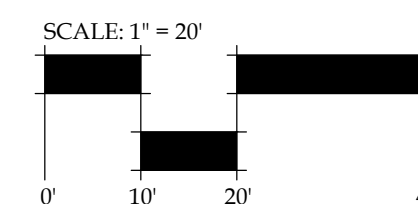
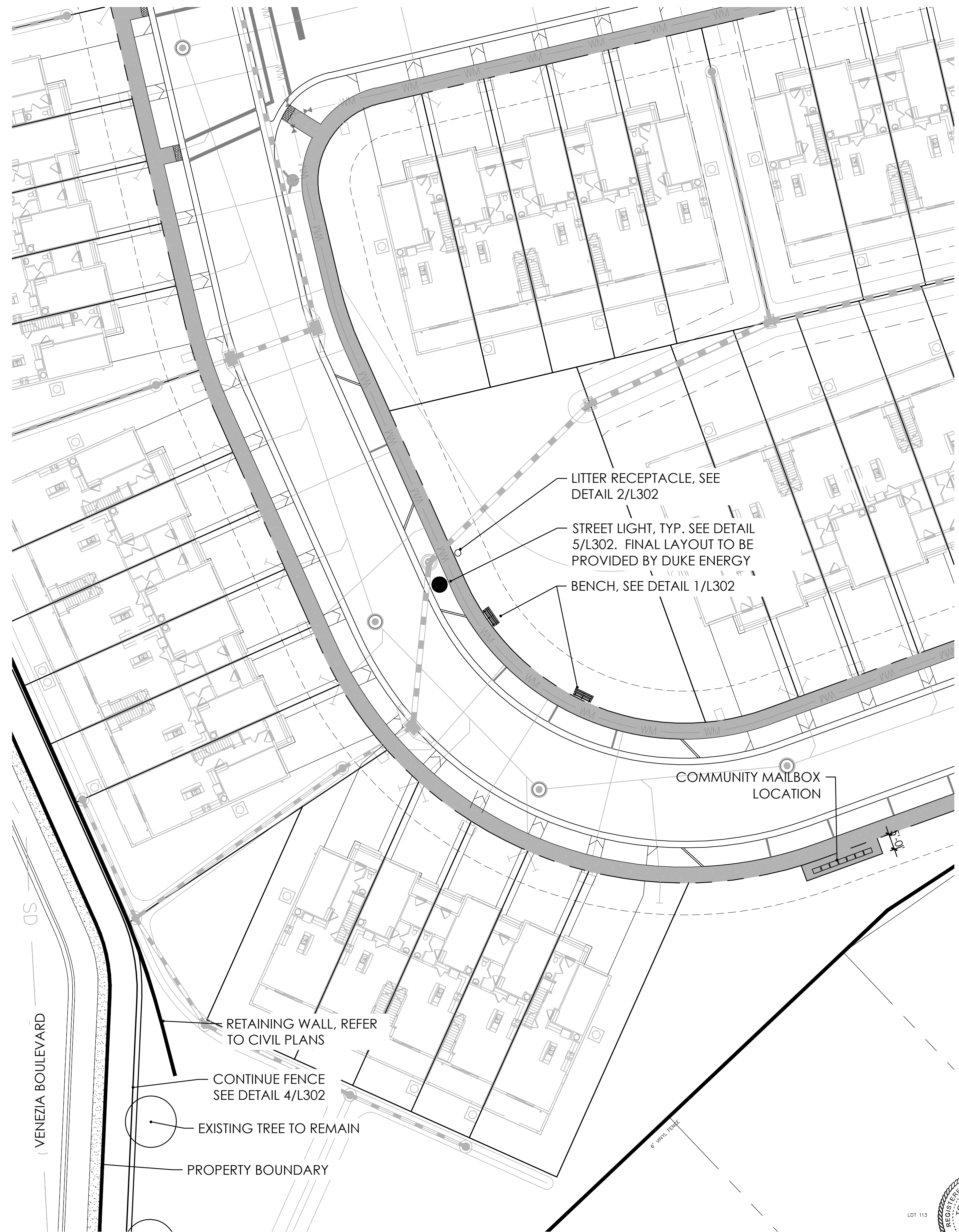
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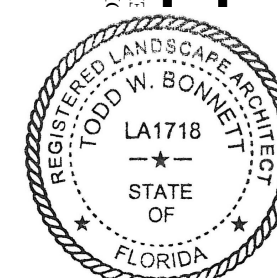
A  
L201



B  
L201



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**Venezia**  
**Landscape Architecture**  
**D.R. Horton**  
**Howey-in-the-Hills, Florida**  
**LAYOUT PLAN**

DATE: JANUARY 19, 2022  
DRAWN BY: JFB/LAE  
CHECKED BY: TWB  
JOB NUMBER: 2021.182

FILE NAME: 2021.182\_DRIH-VENEZIA\_THIS\_182ASE

REVISIONS:  
Town Comments 01-19-2022

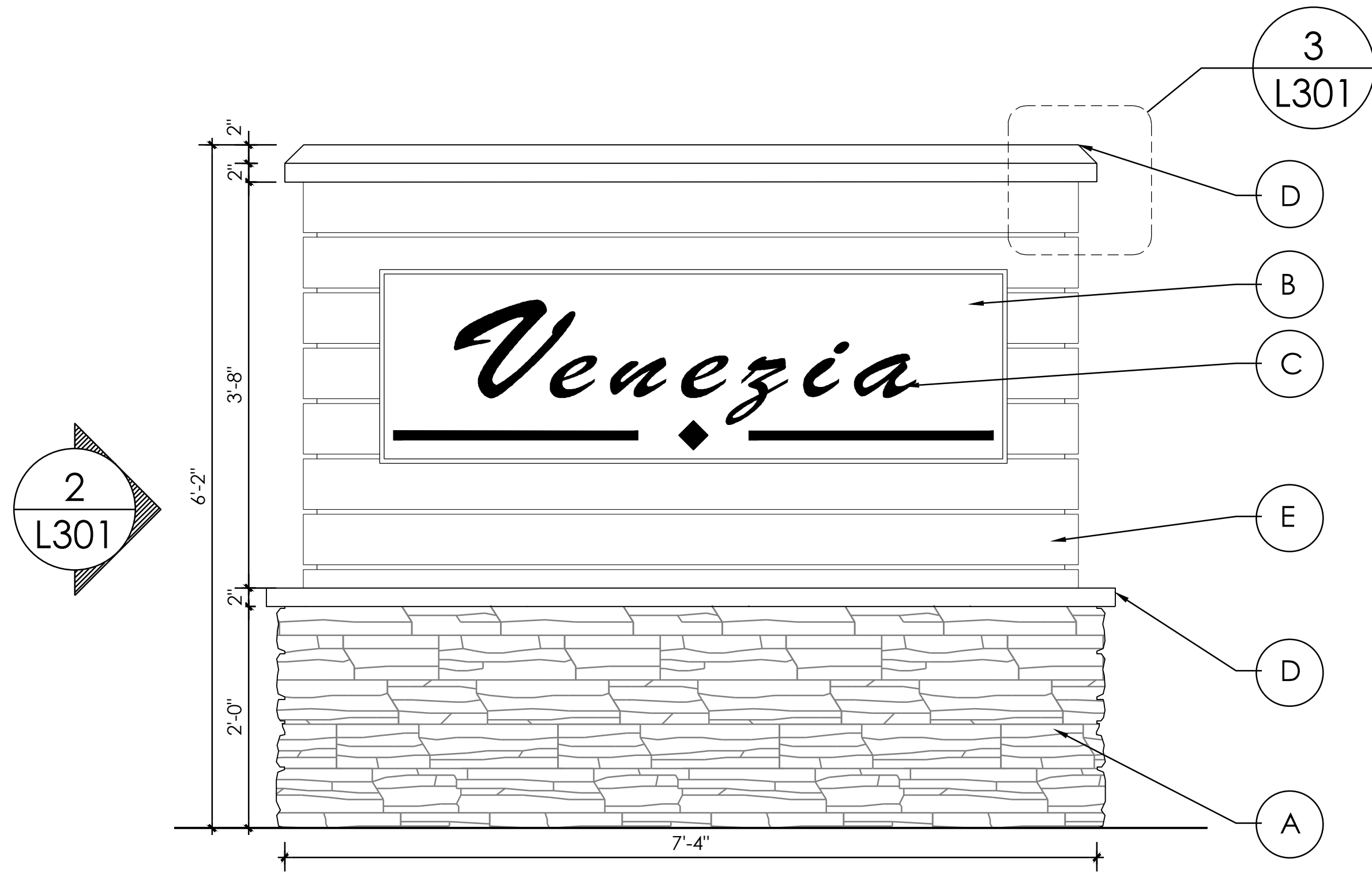
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L201



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landscape architecture  
community planning  
FL LC 26000341  
400 South Orlando Ave, Suite 201  
Maitland, FL 32751  
407.622.1588 voice

D:\ANNE PROJECTS\17-2022-0048-FW  
2021-182-DRH-VENEZIA\DESIGN\2021-182-DRH-VENEZIA THE\_HSRBASE.DWG

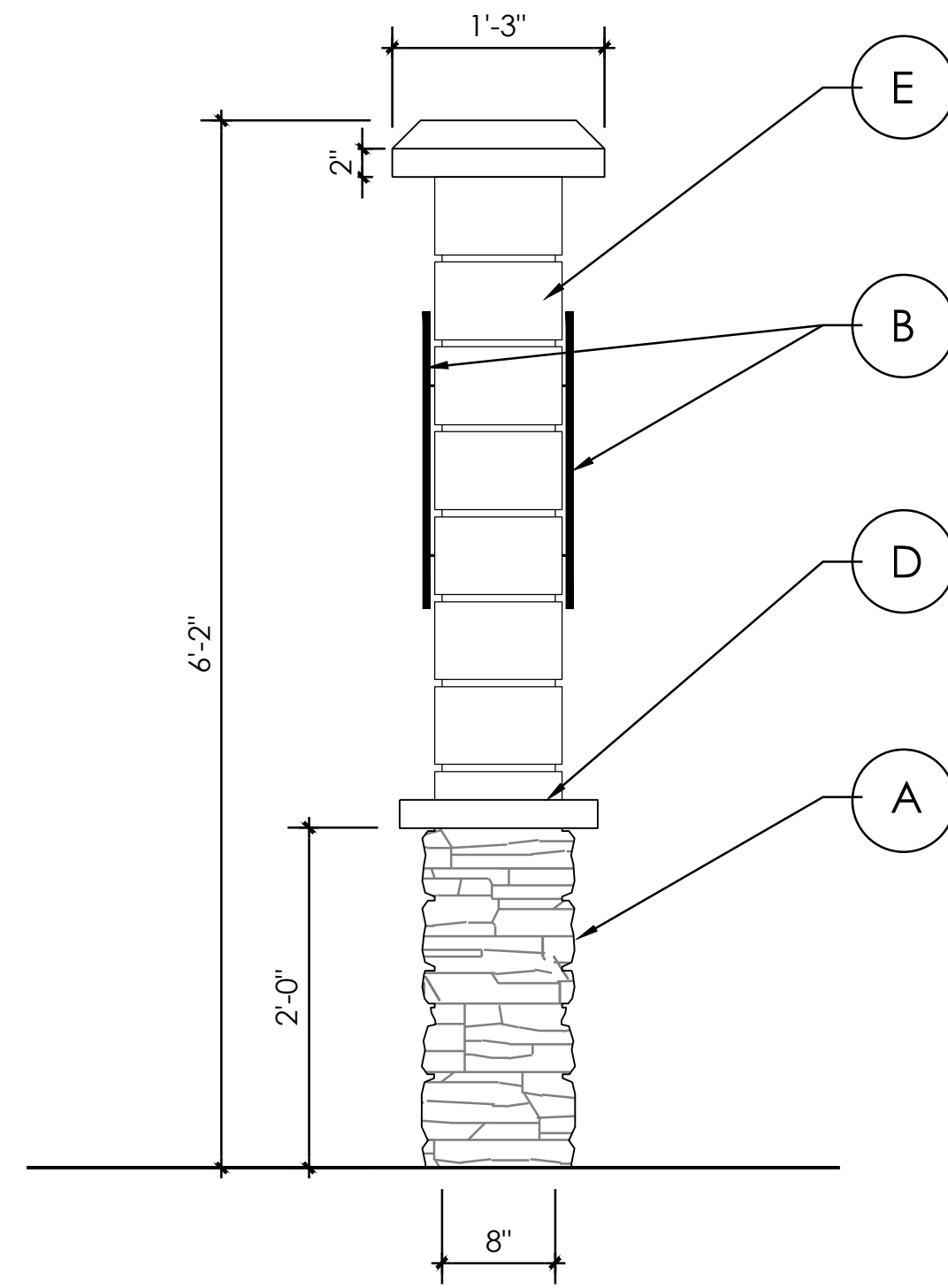


1  
L301 COMMUNITY SIGN FRONT ELEVATION  
SCALE: 1" = 1'-0"

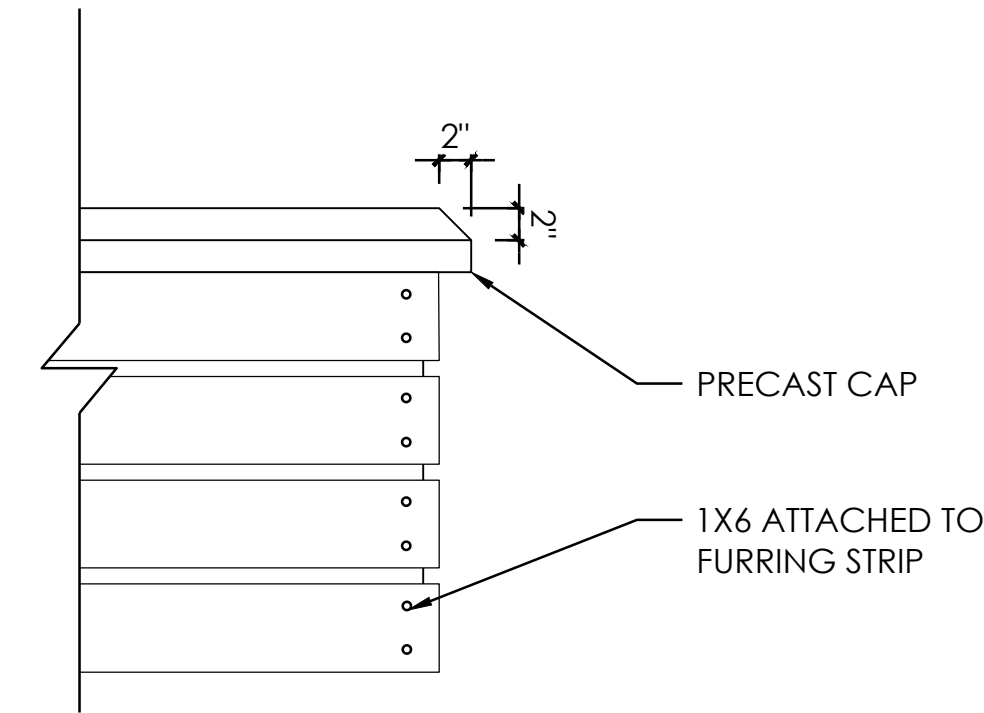
#### MATERIAL SCHEDULE

- A STONE VENEER  
J&N STONE: LAYTITE  
COLOR: IRON  
SOURCE: WWW.JNSTONEVENEER.COM
- B SIGN FACE  
1/4" THICK ALUMINUM PANEL POWDER COATED  
COLOR: RAL 7010
- C COMMUNITY NAME IN SIGN  
8"-10" HT., 1/4" THICK ALUMINUM LETTERS  
PINNED 1/8" OFF SIGN PANEL  
COLOR: RAL 9010
- D PRECAST CAP  
COLOR: SW 7003 TOQUE WHITE
- E 1X6 WOOD SLATS:  
COLOR: SW 9090 CARAIBE

- NOTES:
- FINAL NAME TO BE PROVIDE AT TIME OF PERMIT APPLICATION.
  - FINAL COLORS TO BE APPROVED BY OWNER AND SUBMITTED WITH CONSTRUCTION PERMIT PLANS.



2  
L301 COMMUNITY SIGN SIDE ELEVATION  
SCALE: 1" = 1'-0"



3  
L301 COMMUNITY COLUMN FRONT ELEVATION  
SCALE: 1" = 1'-0"

NOTE: HARDSCAPE DESIGN PLANS PROVIDED TO DEMONSTRATE DESIGN INTENT ONLY AND ARE NOT VALID FOR CONSTRUCTION WITHOUT FINAL STRUCTURAL & REINFORCEMENT DESIGN.



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Venezia  
Landscape Architecture  
D.R. Horton  
Howey-in-the-Hills, Florida  
HARDSCAPE DESIGN PLAN

DATE: JANUARY 19, 2022

DRAWN BY: JFB/LAE

CHECKED BY: TWB

JOB NUMBER: 2021.182

FILE NAME:  
2021.182\_DRH-VENEZIA THE\_HSRBASE

REVISIONS:  
Town Comments 01-19-2022

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Bonnett  
Date:  
2022.01.19  
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L301



- 4 foot length
- Thermoplastic finish
- 1-1/2" thick cast aluminum frame
- All stainless steel hardware
- Portable and/or surface mount
- Bench only, or Bench with a 4" Add-On option



\*OR OWNER APPROVED EQUAL

1	BENCH	
1302		N.T.S.

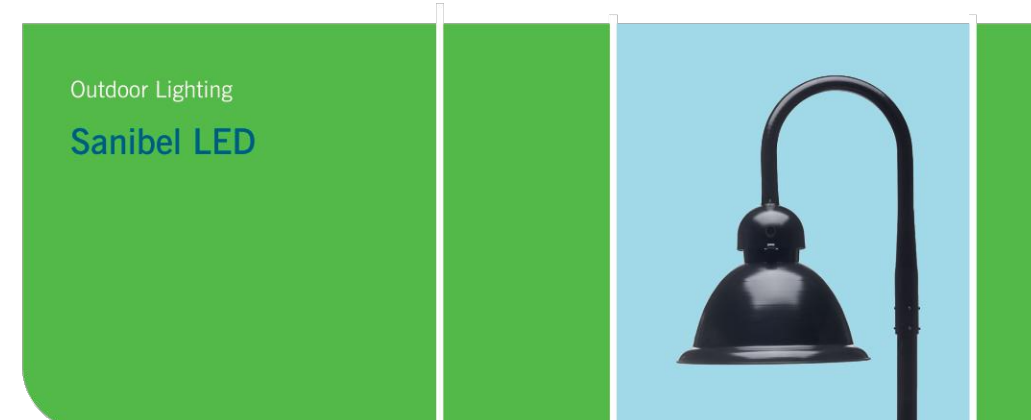


Our ribbed steel trash receptacle offers durability and style. The slatted wave design adds a subtle and simple interest point available in a variety of colors!

- 32 gallon capacity
- 3/4 #9 expanded metal inside ribbed steel with rolled edges
- Dimensions: 25" H x 2' W x 2' D

\*OR OWNER APPROVED EQUAL

2	TRASH RECEPTACLE	
1302		N.T.S.



The beauty of the stylish Sanibel LED is its remarkable versatility. Its sleek simplicity with a gently curved bracket that helps cast light downward, is at home virtually anywhere — from more formal traditional neighborhoods to beachfront communities and other casual locales.

LED (light-emitting diode)	50, 150 watts
Mounting heights	12", 17, 25, 30'
Color	Black
Pole	Sanibel pole Promenade
Applications	Neighborhoods Parks Pathways/walkways* Shopping centers Streets

\*LIGHT FIXTURE SHALL MEET TOWN OF HOWEY IN THE HILL'S  
REQUIRMENTS OR TOWN/OWNER APPROVED EQUAL



5 STREET LIGHT  
1302 N.T.S.

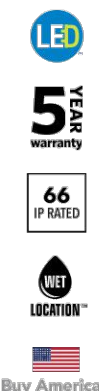


CATALOG NUMBER	
NOTES	
TYPE	



## HIGHLIGHTS

- The Palm Series accent lights are suitable for a variety of mounting applications including ground, wall, tree, sign and architectural accents
- Suitable for wet locations
- Integral driver for 120V
- Dimmable using standard TRIAC (forward-phase or leading-edge) and ELV (reverse phase or trailing-edge) dimmer for 120V and dimmable using standard MLV dimmer and magnetic transformer for 12V
- Tapered-sure lock
- Available in 80CRI and 90CRI
- 1,600lm



	15DEG	20DEG	25DEG	30DEG	35DEG	40DEG	45DEG	50DEG	55DEG
Delivered Lumens	1,514	1,433	1,466	1450	1515	1491	1440	1450	1465
Watts	18	18	18	18	18	18	18	18	18
LPW	84	80	81	81	84	83	80	81	81
Peak Candela	12,941	6,031	6,156	3986	3441	2761	2208	1681	1495

Note: Information based on 4000K @ P1, 80CRI, 120 Volt with C1 cpo and FLC lens

© 2014-2021 Acuity Brands Lighting, Inc. • One Lithonia Way Conyers GA 30012  
Phone: 800-705-SERV (7378) • [www.hydrel.com](http://www.hydrel.com)

PALM\_LED | Rev. 09/08/2020  
Page 1 of 1

\*OR OWNER APPROVED EQUAL

3	UPLIGHT	
1302		N.T.S.

3/4" PICKETS 4" O.C. (TYP.)  
WITH 2" SQ. ALUMINUM FENCE  
POSTS 8'-0" O.C. (TYP.)

(2) 1" HORIZONTAL  
MEMBERS 4" O.C. TOP

4'-0"

2" SQ. ALUMINUM  
GATE POST

ALUMINUM FENCE,  
COLOR: BLACK  
POWDER COAT

8'-0"

FINISH  
GRADE

4 ALUMINUM RAIL FENCE

**Venezia**  
**Landscape Architecture**  
**D.R. Horton**  
Howey-in-the-Hills, Florida  
**HARDSCAPE DESIGN PLAN**

DATE: JANUARY 19, 2022  
DRAWN BY: JFB/LAE  
CHECKED BY: TWB  
JOB NUMBER: 2021.182

FILE NAME:  
2021.182.D8H-VENEZIA.THS.HS.BASE

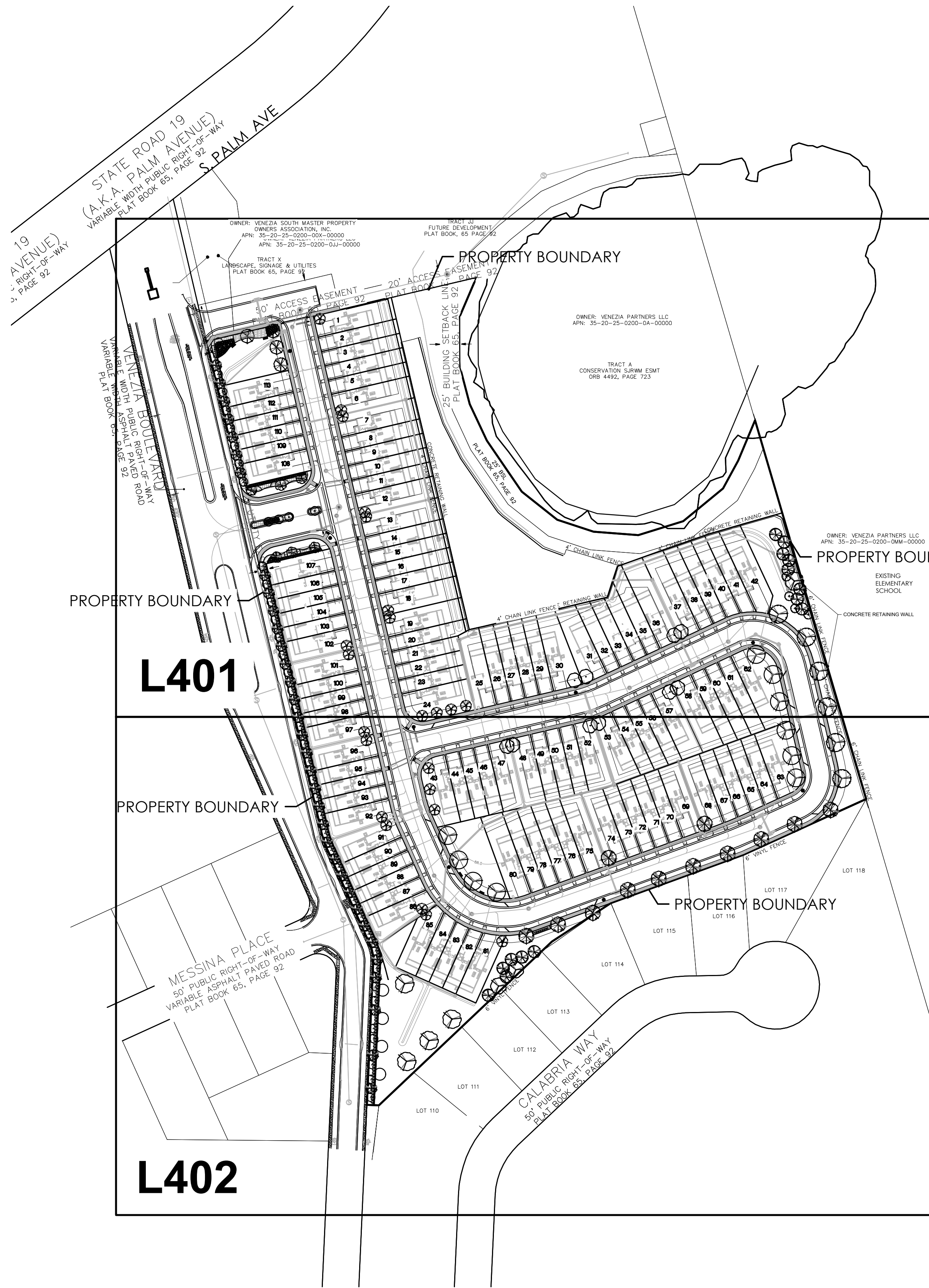
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2 Town Comments 01-19-2022

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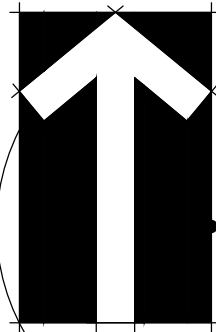
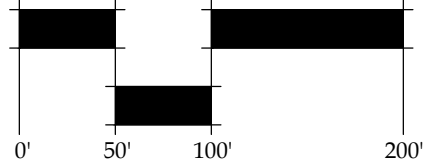
L302

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SCALE: 1" = 100'



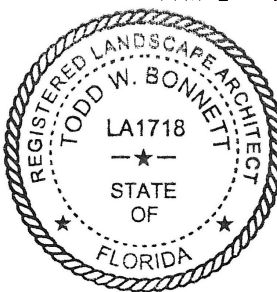
**NOTE:**

THE LANDSCAPE PROVIDED FOLLOWS THE WATERWISE FLORIDA LANDSCAPES AND IS COMPLIANT WITH THE FLORIDA WATER STAR PROGRAM PER SEC. 7.04.01 STANDARDS.

**Sec. 7.02.01 Residential buffers**

Total Linear Feet		Hundreds of Linear Feet	Quantity	Plant Type	Total Plants Required	Total Plants Provided
<b>North of entrance</b>						
226.58	Divide by .50 =	4.5	2	Canopy Tree =	9	9
			2	Ornamental =	9	9
			10	Shrubs =	45	45
<b>South of entrance</b>						
784.70	Divide by .50 =	15.7	2	Canopy Tree =	31	28
				Existing Trees		3
			2	Ornamental =	31	31
			10	Shrubs =	157	190

The shrubs shall be at least 30" in height at time of planting



**Venezia**  
**Landscape Architecture**  
**D.R. Horton**  
Howey-in-the-Hills, Florida  
**OVERALL LANDSCAPE PLAN**

DATE: OCTOBER 22, 2021  
DRAWN BY: JFB/LAE  
CHECKED BY: TWB  
JOB NUMBER: 2021.182  
FILE NAME: 2021.182.DRI1-VENEZIA THS\_158ASE

REVISIONS:  
1 Base update 12-10-2021  
2 Town Comments 01-19-2022

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**L400**



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Venezia  
Landscape Architecture  
D.R. Horton  
Howey-in-the-Hills, Florida  
LANDSCAPE PIAN

DATE: OCTOBER 22, 2021

RAWN BY: JFB/LAE

CHECKED BY: TWE

DB NUMBER: 2021.182

FILE NAME:  
2021.182\_DRH-VENEZIA THS\_LSBASE

REVISIONS:

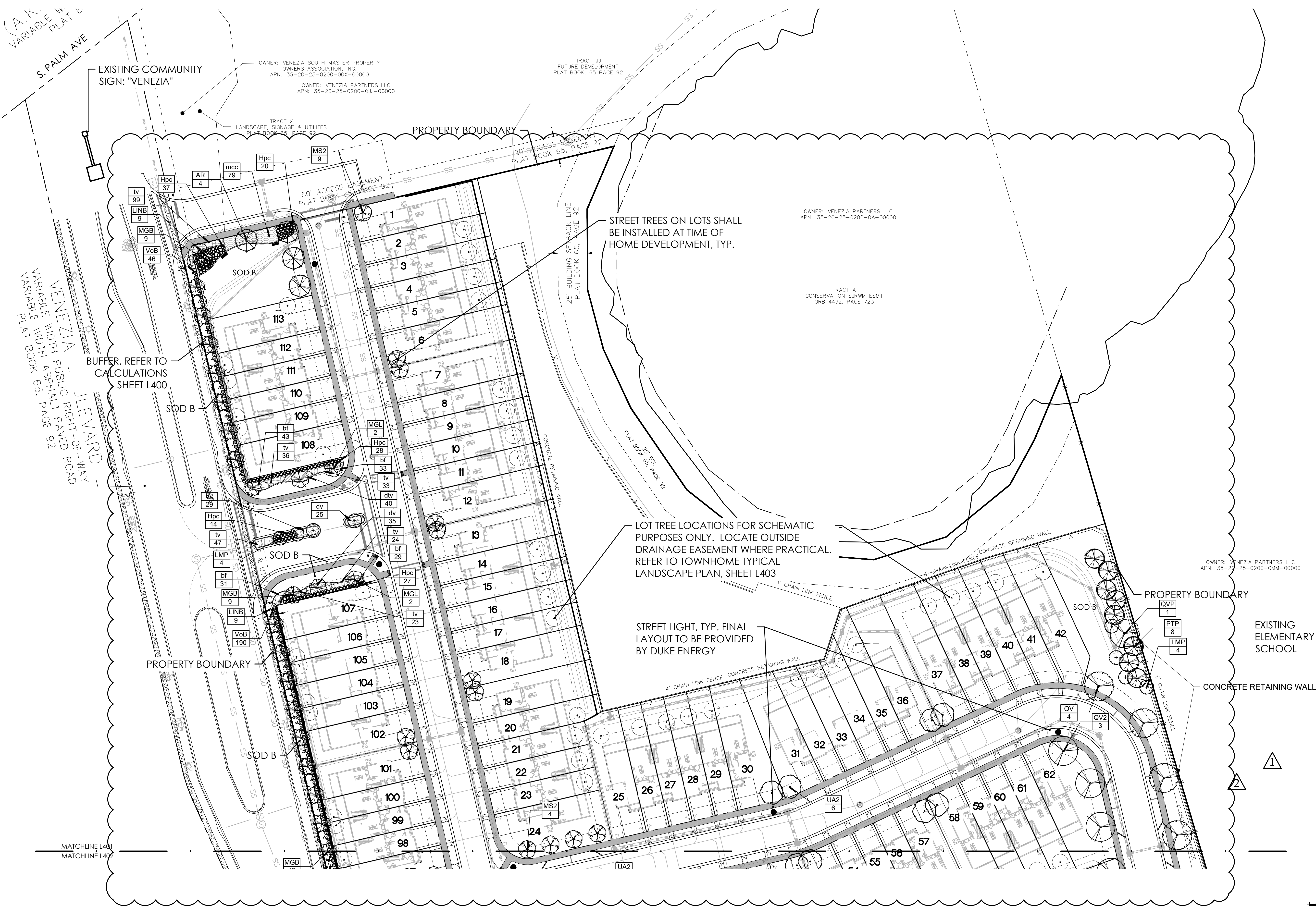
Base update 12-10-202

Town Comments 01-19-2024

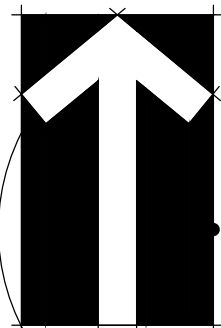
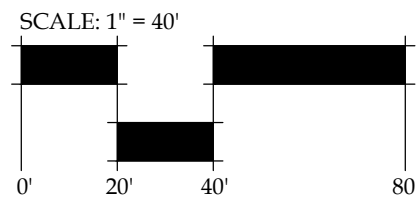
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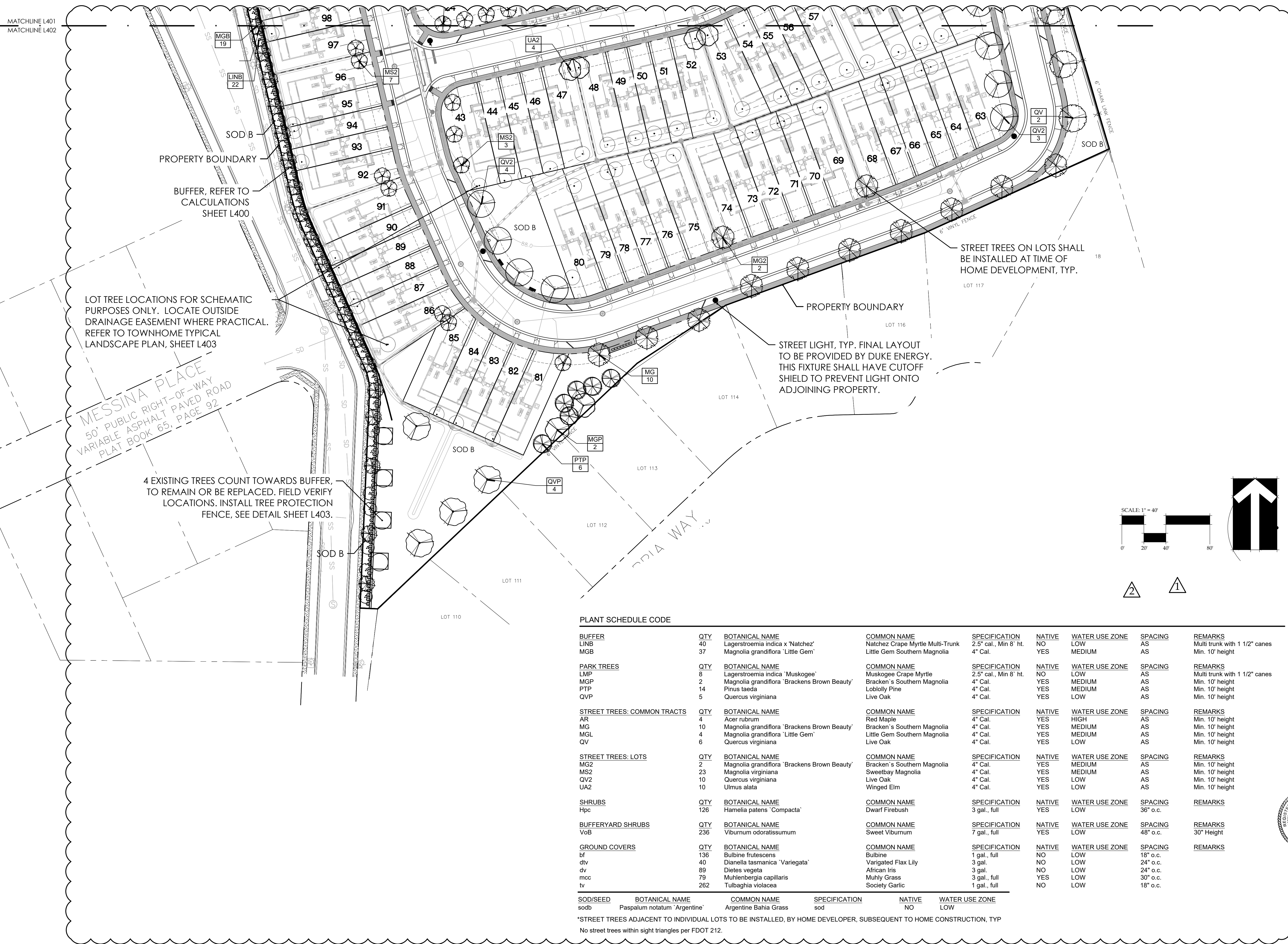
L401



\* REFER TO SHEET L402 FOR PLANT SCHEDULE



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Venezia  
Landscape Architecture  
D.R. Horton  
Howey-in-the-Hills, Florida  
LANDSCAPE PLAN

DATE: OCTOBER 22, 2021

DRAWN BY: JFB/LAE

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JOB NUMBER: 2021.182

FILE NAME:  
2021.182\_DRIH-VENEZIA.TDS\_L400.DWG

REVISIONS:  
1 Base update 12-10-2021  
2 Town Comments 01-19-2022

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2022.01.19  
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L402

GENERAL REQUIREMENTS

The Landscape Contractor shall be responsible for all materials and all work as called for on the landscape plans. The list of plant quantities accompanying the plans shall be used as guide only. If a discrepancy occurs between the plans and the plant list, the plans shall control.

The Landscape Contractor shall warranty all trees for a period of one (1) year and shrubs and ground covers for a period of six (6) months from the time of final acceptance by Owner and Landscape Architect.

The Landscape Contractor shall be wholly responsible for the stability and plumb condition of all trees and shall be legally liable for any damage caused by the instability of any plant material. Staking of trees and palms, if required, shall be done utilizing a method agreed upon by the Landscape Architect.

The Landscape Contractor shall research plans and contact appropriate agencies to determine the location of any utilities and obstructions prior to commencing work. Any utilities or unanticipated obstructions shall be reported to Landscape Architect or Owner immediately.

All plant material and sodded areas shall have an automatic underground irrigation system providing 100% coverage.

Positive drainage shall be maintained away from all structures on the site.

PLANT SPECIFICATIONS

All nursery stock plant material shall be Florida #1 or better in accordance with Grades and Standards for Nursery Plants Parts I & II, latest edition as published by the Florida Department of Agriculture and Consumer Services- Division of Plant Industry.

All plant material shall be planted, fertilized and mulched as per the plant details and planting specifications noted on the plans.

All container grown material shall be healthy, vigorous, well rooted plants, and established in the container in which they are delivered to the site. The plants shall have tops which are good quality and in a healthy growing condition. Established container grown plant material shall be grown in that container sufficiently long enough for the new fibrous roots to have developed enabling the root mass to retain it's shape when removed the container. Plants which have become root bound in the container are unacceptable.

All plant material that is not container grown shall be freshly dug, sound, healthy, vigorous, well branched, and free of disease and insect eggs and larvae, and shall have adequate root systems. Where any requirements are omitted from the plant list, the plants furnished shall be normal for the variety. Plants may be pruned prior to delivery only upon the approval of the Landscape Architect.

FERTILIZER

Two fertilizers shall be used on all types of plantings, except palms. Granular fertilizer shall be uniform in composition, dry and free flowing. This fertilizer shall be delivered to the site in the original unopened bags bearing the manufacturer's statement of analysis. Granular fertilizer shall be a controlled release variety meeting the following requirements: sixteen percent (16%) nitrogen, four percent (4%) phosphorus, eight percent (8%) potassium, plus iron. tablet fertilizer ("Agriform" or approved equal) in 21 gram size shall meet the following requirements: twenty percent (20%) nitrogen, ten percent (10%) phosphorus, five percent (5%) potassium.

Application Rates:

Plant size	16-4-8	"Agriform" tablet (21 grams)
1 gallon	1/4 lb.	1 tablet
3 gallon	1/3 lb.	2 tablets
7-15 gallon	1/2 lb.	4 tablets
1" - 6" caliper	2 lbs. per 1" caliper	2 tablets per 1" caliper
6" + caliper	3 lbs. per 1" caliper	2 tablets per 1" caliper

Sodded areas shall receive an application of the granular fertilizer (16-4-8) at a rate of 1/2 lb. of Nitrogen per 1,000 square feet of sod area.

"Palm Special" fertilizer shall be applied to all palms at installation at a rate of 1 1/2 lbs. per 100 square feet of canopy area. Palm fertilizer shall be a controlled release variety containing chelated micro nutrients and a ratio of N-P-K-Mg of 2:1:3:1.

SOIL

Planting soil for use in preparing the backfill material for planting pits shall be added a rate of fifty percent (50%) planting soil to fifty percent (50%) existing soil. This soil mix shall be used in all plant pits except Sabal Palms which shall be backfilled with clean sand. Planting soil shall be a fertile, friable natural topsoil of loamy character. It shall contain forty (40) to fifty (50) percent decomposed organic matter and be free of heavy clay, stones larger than 1" in diameter, noxious weeds and plants, sod, partially disintegrated debris, insects or any other undesirable material, plants or seeds that would be toxic or harmful to plant growth.

MULCH

All plant beds and tree watering basins shall be top dressed with three inches (3') of pine bark mini-nuggets mulch.

SOD

Refer to Landscape Plan for limits of sod.

All areas disturbed by construction (including material staging, equipment storage, temporary facilities, site access, construction staff parking, etc.) beyond the minimum limits of sod as shown on the Landscape Plan shall be sodded as needed.

All lawn areas to receive sod shall be disked four (4) to six (6) inches and graded to establish a level finished grade ensuring positive drainage from all structures. All debris shall be removed from the site.

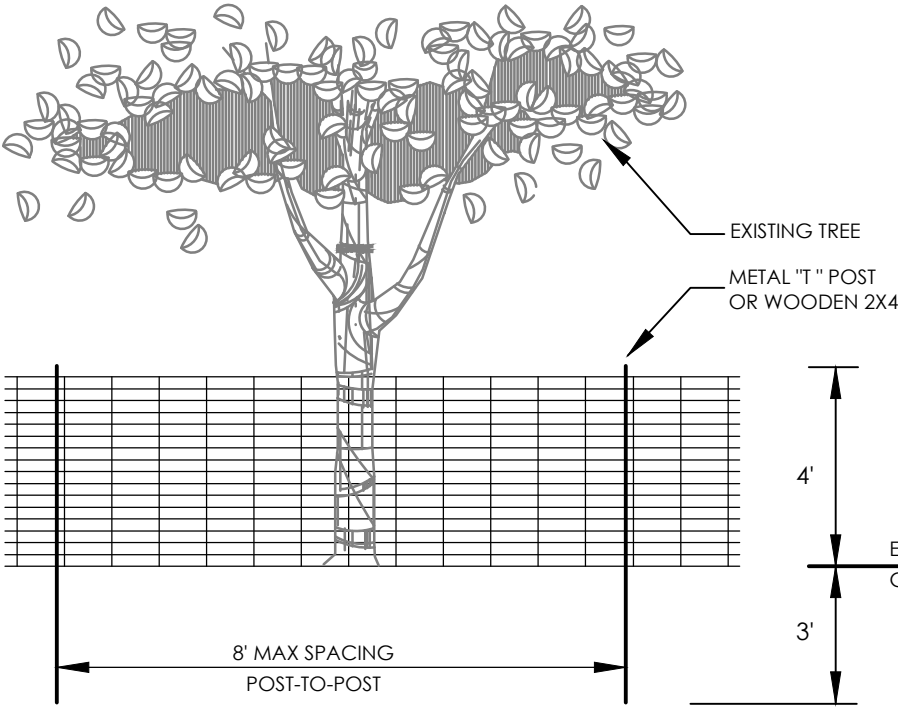
Sod shall be free of weeds and pests. It shall be laid evenly with tight fitting joints and rolled. The sod shall contain moist soil which does not fall apart or tear when lifted.

See plant list for specific sod species and locations.

See 'Fertilizer' for requirements of all sodded areas.

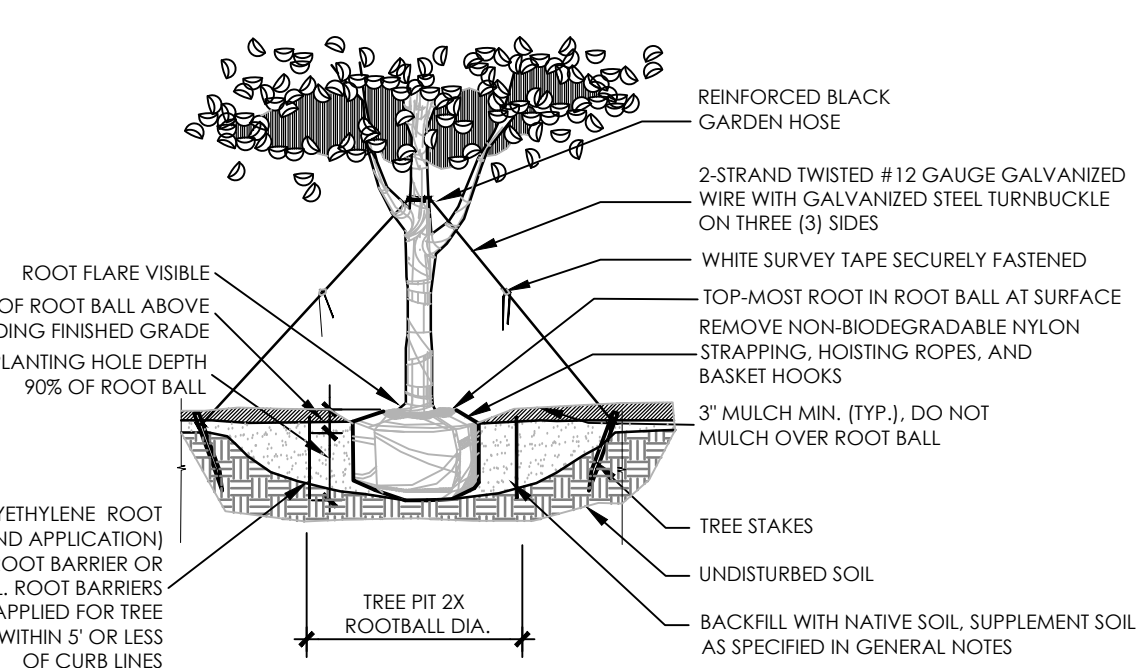
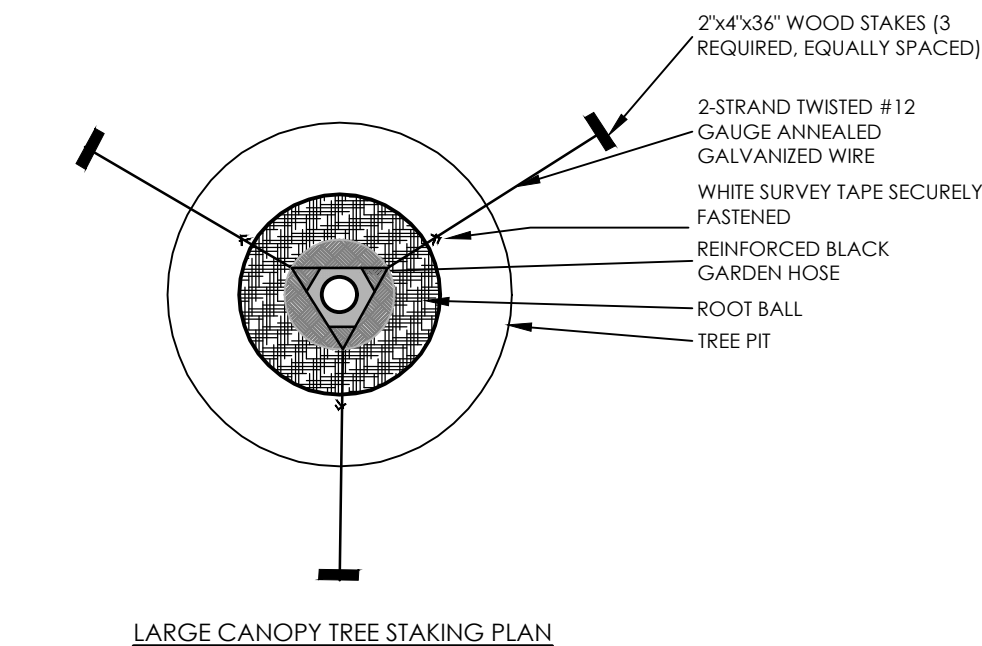
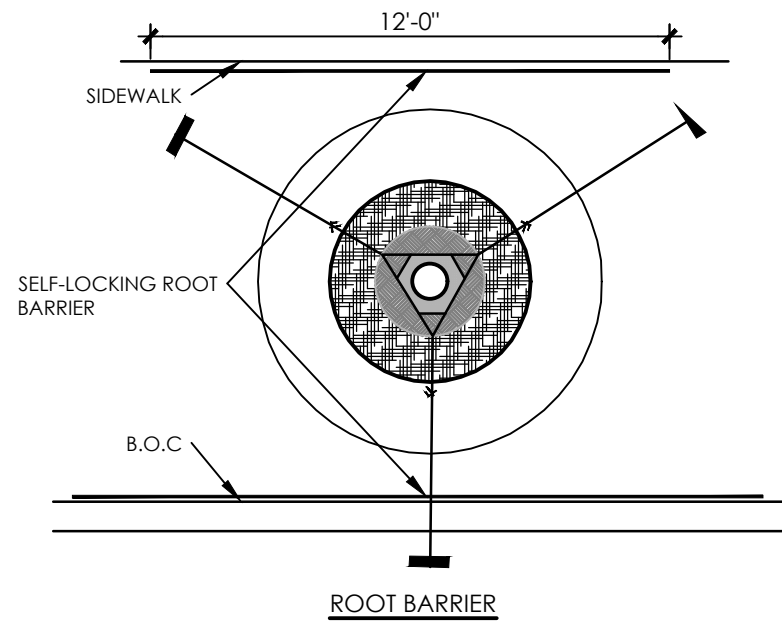
PLANT SCHEDULE TOWNHOME

TREES TO BE SELECTED FROM TABLE 7.10 APPROVED TREE AND PLANT LIST: UNDERSTORY TREES CATEGORY								
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE	SPACING	REMARKS
Vow	17	Viburnum obovatum	Walter's Viburnum	3 gal., 18" o.a.	YES	LOW	36" o.c.	
Vo	26	Viburnum odoratissimum	Sweet Viburnum	3 gal., 18" o.a.	YES	LOW	36" o.c.	
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE	SPACING	REMARKS
jc	52	Juniperus conferta	Shore Juniper	1 gal., full	NO	LOW		
lmb	21	Liriope muscari 'Big Blue'	Big Blue Lilyturf	1 gal., 12"-15" spd., full pot	NO	LOW	18" o.c.	18" o.c.
SOD/SEED	BOTANICAL NAME		COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE		
sodb	Paspalum notatum 'Argentine'		Argentine Bahia Grass	sod	NO	LOW		

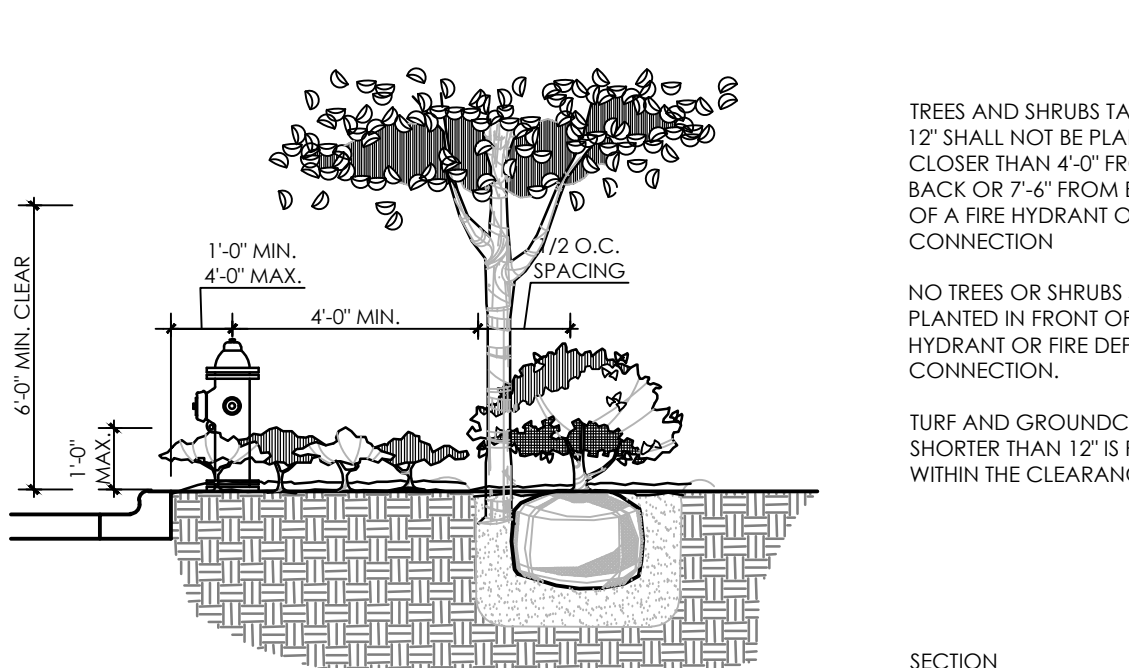
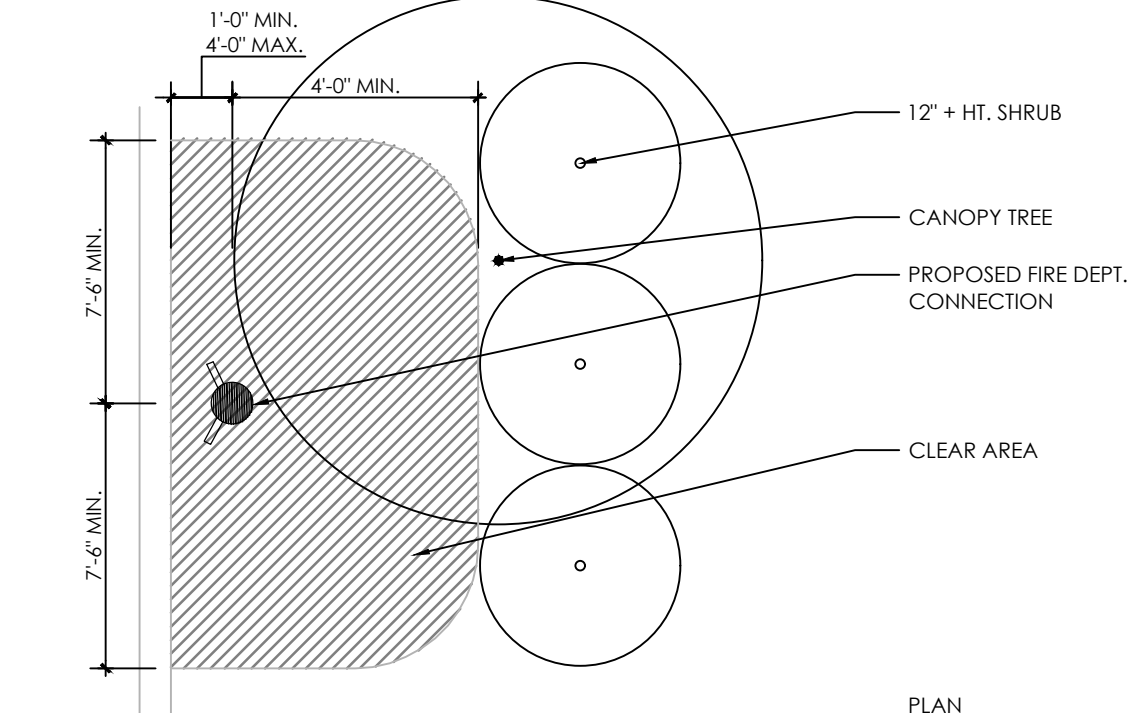


1. PLACE CONTINUOUS RUN OF FENCE MATERIAL ON BOTH SIDES OF IMMEDIATE WORK ZONE AS SHOWN ON THE PLANS. DO NOT ATTACH FENCE MATERIAL TO TREES.
2. TREE PROTECTION FENCING FABRIC TO BE PLACED AT THE DRIP LINE OF THE TREES THAT ARE TO BE PROTECTED.
3. TREE PROTECTION FENCE: HIGH DENSITY POLYETHYLENE FENCING WITH 3.5" X 1.5" OPENINGS. COLOR: ORANGE.

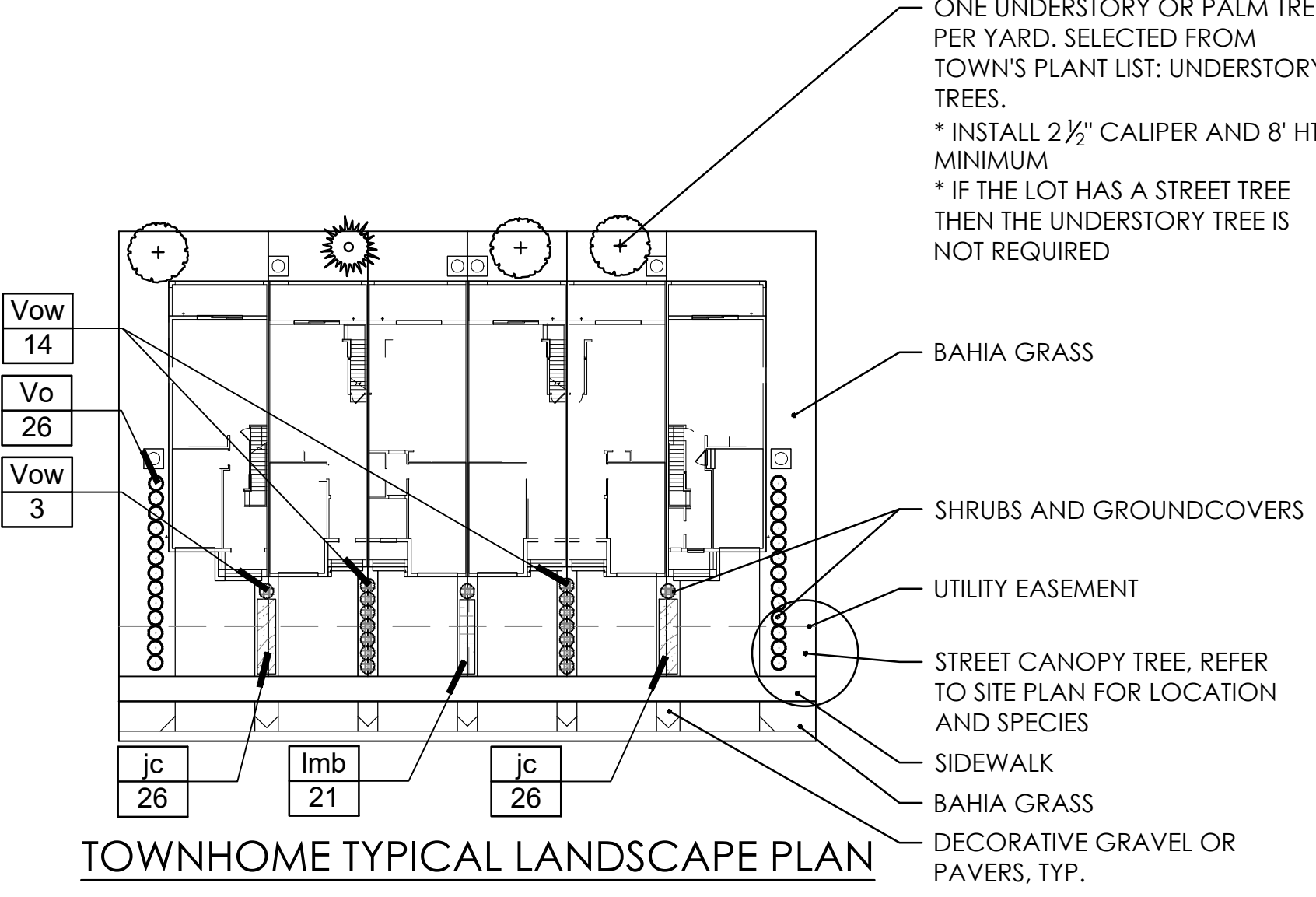
TREE PROTECTION DETAIL  
N.T.S.



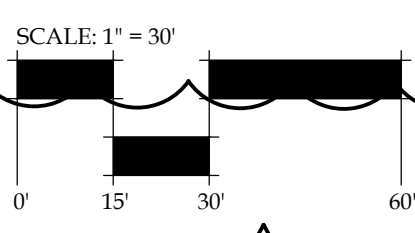
LARGE CANOPY TREE STAKING PLAN  
N.T.S.



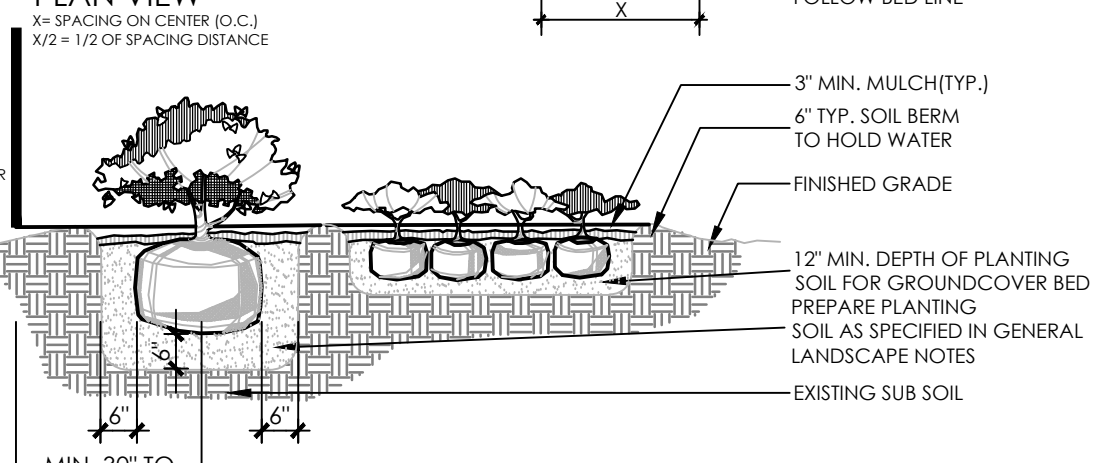
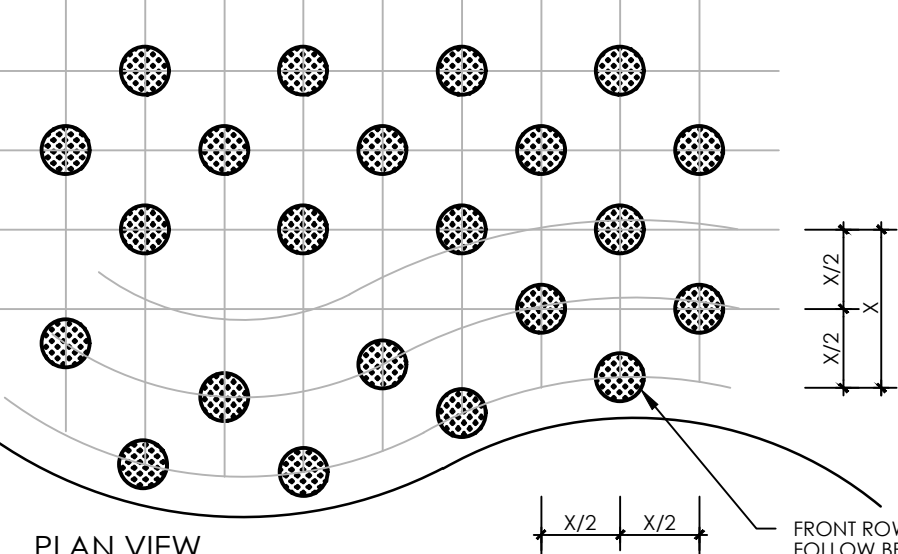
TYPICAL PLANTING AT FIRE HYDRANT  
N.T.S.



TOWNHOME TYPICAL LANDSCAPE PLAN



NOTE: TREE SUPPORT MATERIALS SHALL BE REMOVED FROM EACH TREE ONCE IT IS ESTABLISHED. THIS IS USUALLY DONE AFTER 6 MONTHS FOR SHADE TREES AND 1 YEAR FOR PALM TREES.



SHRUB AND GROUNDCOVER PLANTING DETAIL  
N.T.S.



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Venezia  
Landscape Architecture  
D.R. Horton  
Howey-in-the-Hills, Florida  
LANDSCAPE DETAILS & NOTES

DATE: OCTOBER 22, 2021

DRAWN BY: JFB/LAE

CHECKED BY: TWB

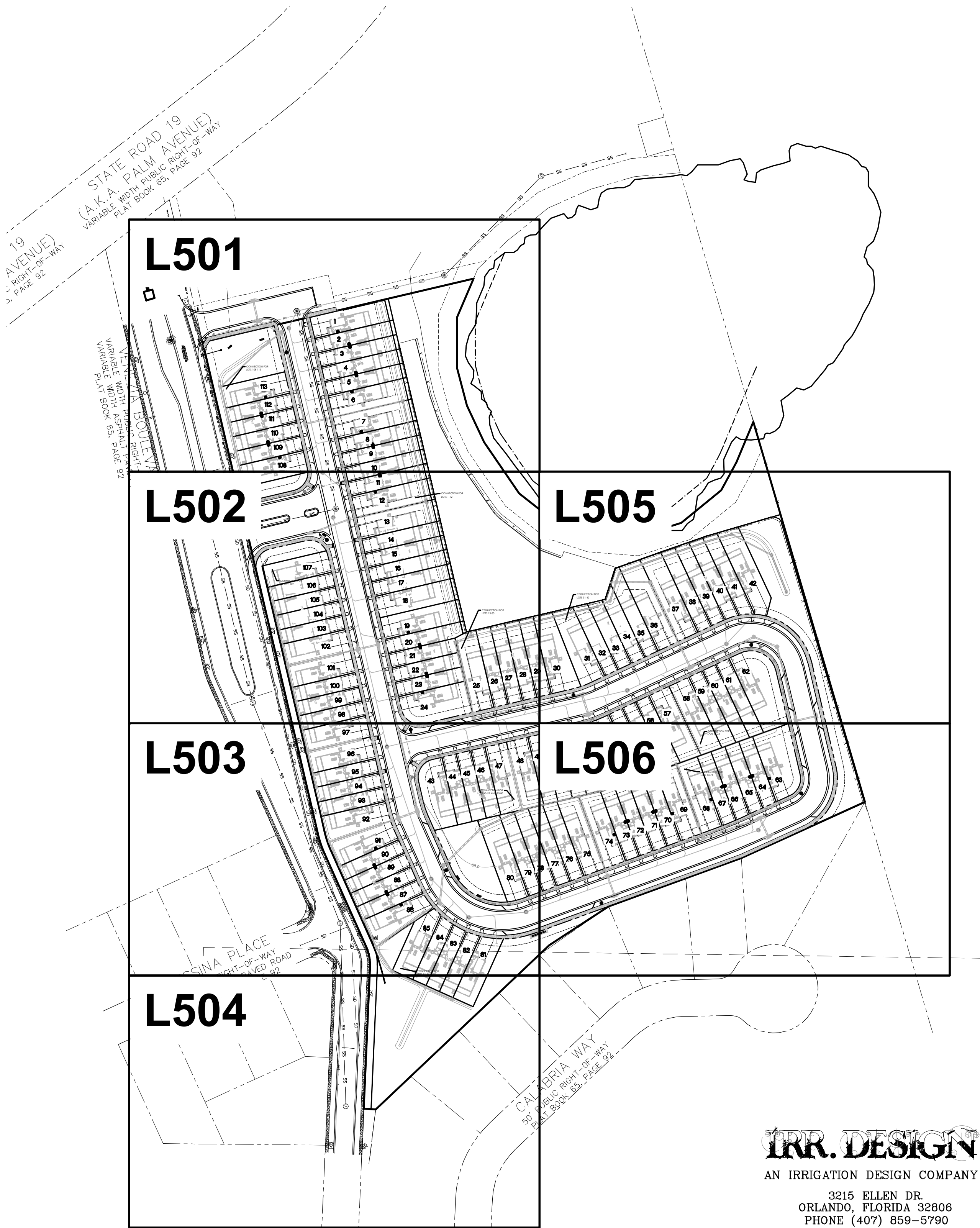
JOB NUMBER: 2021.182

FILE NAME:  
2021.182\_DRH-VENEZIA THIS IS RASE

REVISIONS:  
Base update 12-10-2021  
Town Comments 01-19-2022

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by Todd W  
Bonnett  
Date:  
2022.01.19  
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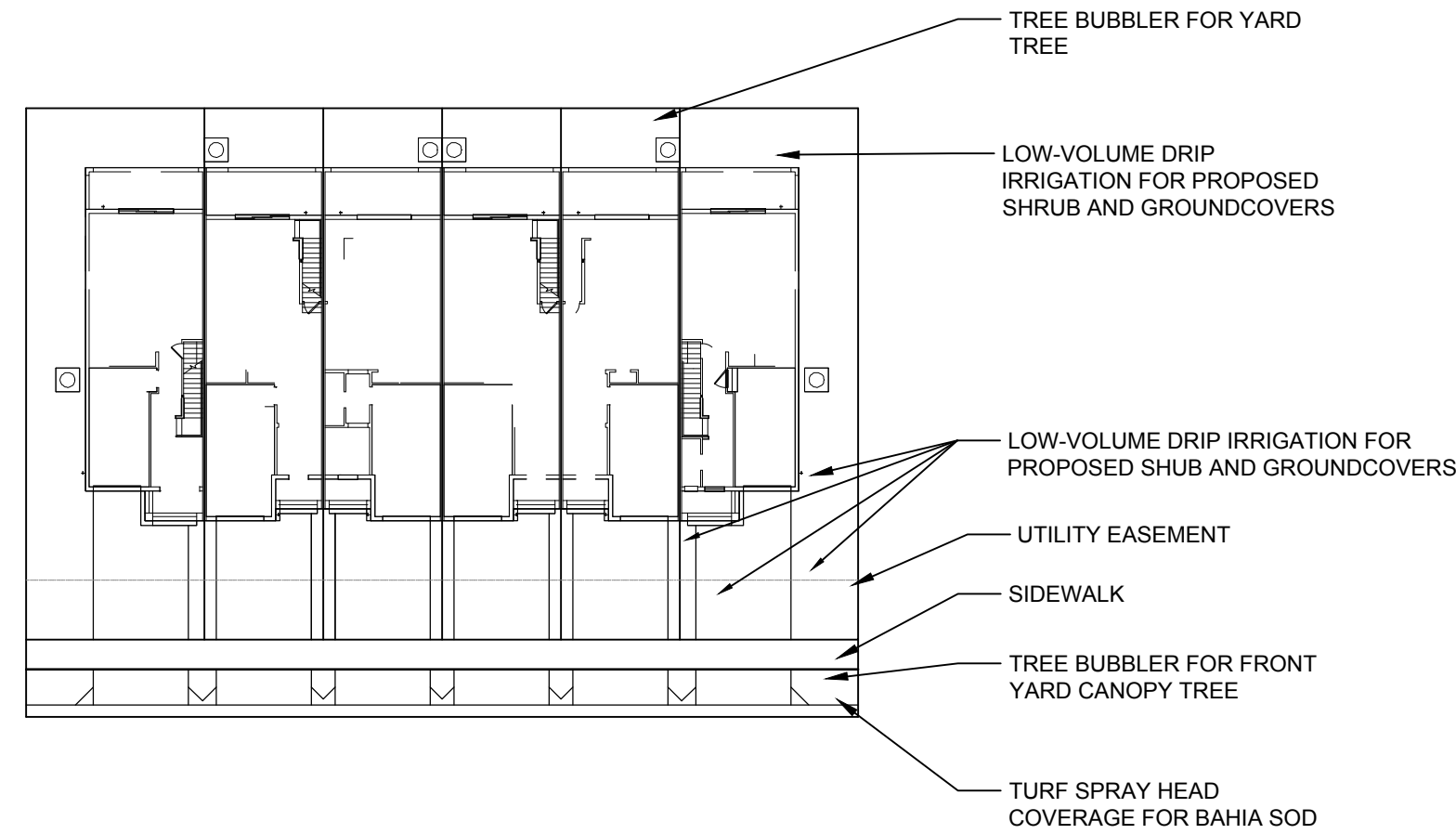
**IRR. DESIGN**  
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#### NOTES

- THIS SPRINKLER SYSTEM USES RECLAIMED WATER. THE IRRIGATION CONTRACTOR WILL INSTALL ALL SPRINKLER EQUIPMENT WITH PURPLE CAPS, TAGS, VALVE BOX LIDS, ETC. THE CONTRACTOR WILL POST "RECLAIMED WATER" SIGNAGE PER LOCAL CODES.
- CONTRACTOR TO INSTALL RECLAIM IRRIGATION WATER NOTICE POC SIGNAGE, PER LAKE COUNTY SPECIFICATIONS.



TOWNHOME TYPICAL IRRIGATION PLAN

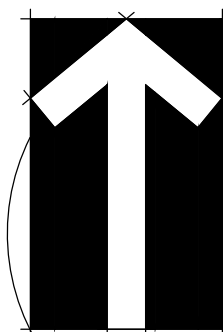
#### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird PESBR 1", 1-1/2", and 2" Durable Chlorine-Resistant Valves for Reclaimed Water Applications. With Scrubber Mechanism Technology, and Purple Flow Control Handle.	9
	Niloco T-113-K Class 125 bronze gate shut off valve with cross handle, same size as mainline pipe diameter at valve location. Size Range - 1/4" - 3"	14
	Hunter ICV-G-FS-R 3" 1", 1-1/2", 2", and 3" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use. With Filter Sentry Factory Installed Option, and Reclaimed Water ID, Purple Handle.	1
	Hunter A2C-75D-PP 75-Station Decoder controller on a Plastic Pedestal.	1
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).	9
	Hunter ICD-200 2-Station Decoder with Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).	2
	Hunter ICD-SEN 2-input sensor decoder with surge suppression and ground wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).	1
	Hunter Solar-Sync-Sen Solar, rain freeze sensor with outdoor interface, connects to Hunter X-Core and ACC Controllers, install as noted. Includes gutter mount bracket. Wired. Module not included.	1
	Hunter HFS-300 Flow Sensor for use with ACC controller, 3" Schedule 40 Sensor Body, 24 VAC, 2 amp.	1
	Cap for future use Cap at the mainline or lateral line for future use. The pressure and flow provided to that location are indicated next to the cap symbol.	10
	Water Meter 2" Reclaimed water meter requires 72 GPM @ 65 PSI. Irrigation contractor shall be responsible to verify the sources ability to service the systems requirements at site before starting construction.	1
	Irrigation Lateral Line: PVC Class 200 SDR 21-NP Only lateral transition pipe sizes 1" and above are indicated on the plan, with all others being 3/4" in size. Install 12" below final grade.	5,990 l.f.
	Irrigation Mainline: PVC Class 200 SDR 21-NP Pipe sizes 3" inch or smaller shall have bell and socket joints. Pipe sizes larger than 3" inch shall have snap connections w/ rubber gasket joints, thrust blocked. Install 18" below grade.	2,715 l.f.
	Pipe Sleeve: PVC Class 200 SDR 21 Sizes shall be twice the diameter of the pipe or wire bundle carried. Place below all paving, hardscape etc. and as directed by the Owners representative.	212.2 l.f.
	Pipe Sleeve: PVC Schedule 40 Sizes shall be twice the diameter of the pipe or wire bundle carried. Place below all paving, hardscape etc. and as directed by the Owners representative.	407.4 l.f.
	Valve Callout Valve Number Valve Flow Valve Size	

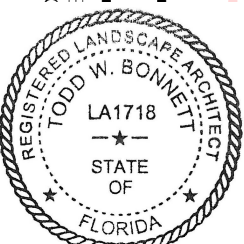
#### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	RADIUS
	Rain Bird RD-06-P30-F-NP-U HE-VAN Series Turf Spray, 6.0" Pop-Up, with 30 psi in-stem pressure regulation, Flow-Shield Technology, and Non-Potable Cover (purple cap). 1/2" NPT female threaded inlet.	156	30	
	Hunter AFB 10 Adjustable Flow Bubbler, 1/2" FIPT, stainless steel screw adjustment.	272	20	
	Rain Bird 5006-NP-PC-FC-MPR Turf Rotor, 6" Pop-Up, Plastic Riser, Matched Precipitation Rotor (MPR nozzle). Arc and Radius as per Symbol. 25 ft=red, 30 ft=green, 35ft=beige. With Non-Potable Purple Cover.	18	35	30'
	Rain Bird 5006-NP-PC-FC-MPR Turf Rotor, 6" Pop-Up, Plastic Riser, Matched Precipitation Rotor (MPR nozzle). Arc and Radius as per Symbol. 25 ft=red, 30 ft=green, 35ft=beige. With Non-Potable Purple Cover.	3	35	34'
	Rain Bird XCZ-150-LCDR High Flow Control Zone Kit, for Large Commercial Drip Zones. 1-1/2" PESB-R Scrubber Globe Valve with single 1-1/2" Pressure Regulating (40psi) Quick-Check Basket Filters. Flow range: 15-62gpm.	3		
	Rain Bird MDCFPCAP Dripline Flush Valve purple cap in compression fitting coupler. For non-potable water use.	6		
	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.	3		
	Area to Receive Dripline Rain Bird XFD-09-12-NP XFD On-Surface Pressure Compensating Landscape Dripline. 0.5 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. UV Resistant. Specify XF insert fittings.	5,022 s.f.		

SCALE: 1" = 100'



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L500

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Landscape Architecture  
D.R. Horton  
Howey-in-the-Hills, Florida  
OVERALL IRRIGATION PLAN

DATE: December 10, 2021  
DRAWN BY: JM  
CHECKED BY: TWB  
JOB NUMBER: 2021.182

FILE NAME: 2021.182\_DRH-VENEZIA T18\_IRRISET

REVISIONS:  
Irrigation 12-10-2021  
Town Comments 1-19-2022

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community planning  
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#### NOTES

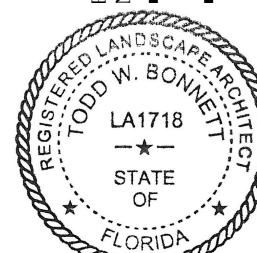
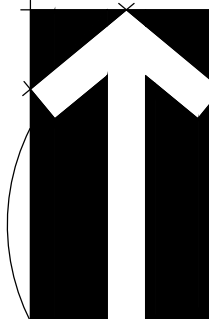
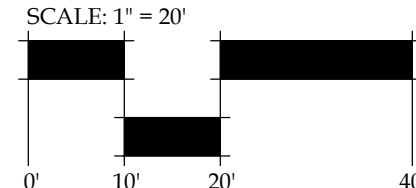
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2. CONTRACTOR TO INSTALL RECLAIM IRRIGATION WATER NOTICE POC SIGNAGE, PER LAKE COUNTY SPECIFICATIONS.

1" IRRIGATION RECLAIMED WATER METER. SYSTEM REQUIRES 72 GPM @ 65 PSI. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE SOURCE'S ABILITY TO SERVICE THE SYSTEM'S REQUIREMENTS AT SITE BEFORE STARTING CONSTRUCTION. COORDINATE WITH CIVIL DRAWINGS AND AT SITE TO DETERMINE ACTUAL METER LOCATION.

DUE TO LACK OF SPACE ON PLANS THE MAINLINE IS SHOWN FOR GRAPHICAL PURPOSES ONLY OUTSIDE OF THE PROJECT'S BOUNDARIES. THE CONTRACTOR WILL INSTALL ALL PIPING AND EQUIPMENT INSIDE THE PROJECT'S LANDSCAPED AREAS AND SLEEVE ALL OTHER MAINLINE, SPRINKLER LOCATIONS ARE TO SCALE. PIPING LOCATIONS ARE DIAGRAMATIC.



NOTE: LANDSCAPING INDIVIDUAL RESIDENCES AND IRRIGATION SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH HOWEY-IN-THE-HILLS LDC (7.06.01) AND (7.08.01)



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L501

**Venezia**  
Landscape Architecture  
D.R. Horton  
Howey-in-the-Hills, Florida  
IRRIGATION PLAN



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DATE: December 10, 2021  
DRAWN BY: JM  
CHECKED BY: TWB  
JOB NUMBER: 2021.182  
FILE NAME: 2021.182\_DRI1-VENEZIA T1S\_IRRASEL  
REVISIONS:  
1. Irrigation 12-10-2021  
2. Town Comments 1-19-2022

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Venezia  
Landscape Architecture  
D.R. Horton  
Howey-in-the-Hills, Florida  
IRRIGATION PLAN

DATE: December 10, 2021

DRAWN BY: JM

CHECKED BY: TWB

JOB NUMBER: 2021.182

FILE NAME:  
2021.182\_DRH-VENEZIA THIS\_IRRBASE

REVISIONS:

1. Irrigation 12-10-2021

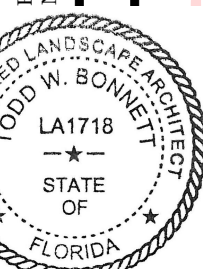
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MATCHLINE L502

MATCHLINE L502  
MATCHLINE L503

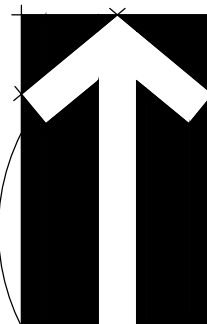
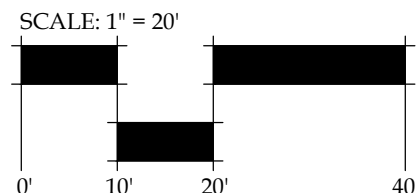
NOTES

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- CONTRACTOR TO INSTALL RECLAIM IRRIGATION WATER NOTICE POOL SIGNAGE, PER LAKE COUNTY SPECIFICATIONS.

DUE TO LACK OF SPACE ON PLANS THE MAINLINE IS SHOWN FOR GRAPHICAL PURPOSES ONLY OUTSIDE OF THE PROJECTS BOUNDARIES. THE CONTRACTOR WILL INSTALL ALL PIPING AND EQUIPMENT INSIDE THE PROJECTS LANDSCAPED AREAS AND SLEEVE ALL OTHER MAINLINE. SPRINKLER LOCATIONS ARE TO SCALE. PIPING LOCATIONS ARE DIAGRAMATIC.



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MATCHLINE L502  
MATCHLINE L503

#### NOTES

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2. CONTRACTOR TO INSTALL RECLAIM IRRIGATION WATER NOTICE POC SIGNAGE, PER LAKE COUNTY SPECIFICATIONS.

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APPROXIMATE IRRIGATION CONTROLLER AND SENSOR LOCATION. OWNERS REPRESENTATIVE SHALL PINPOINT EXACT LOCATION AT SITE. IRRIGATION CONTRACTOR SHALL HARDWIRE 120 VAC POWER TO CONTROLLER. RAIN SENSOR DEVICE IS TO BE MOUNTED WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN THE PATH OF SPRINKLER SPRAY.

MESSINA PLACE  
50' PUBLIC RIGHT-OF-WAY  
VARIABLE ASPHALT PAVED ROAD  
PLAT BOOK 65, PAGE 92

MATCHLINE L503  
MATCHLINE L504

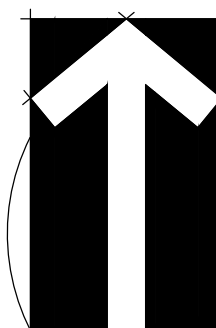
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SCALE: 1" = 20'  
0' 10' 20' 40'



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Landscape Architecture  
D.R. Horton  
Howey-in-the-Hills, Florida  
IRRIGATION PLAN

DATE: December 10, 2021  
DRAWN BY: JM  
CHECKED BY: TWB  
JOB NUMBER: 2021.182

FILE NAME:  
2021.182\_DRI-VENEZIA T181\_IRRASEL

REVISIONS:  
Irrigation 12-10-2021  
Town Comments 1-19-2022

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L503

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WHATSOEVER WITHOUT FIRST OBTAIN

MESSINA PLACE  
50' PUBLIC RIGHT-OF-WAY  
VARIABLE ASPHALT PAVED ROAD  
PLAT BOOK 65, PAGE 92

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2. CONTRACTOR TO INSTALL RECLAIM IRRIGATION WATER NOTICE POC SIGNAGE, PER LAKE COUNTY SPECIFICATIONS.

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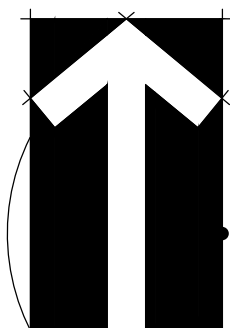
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Jason McElroy  
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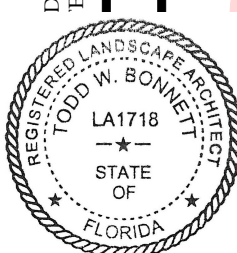
SCALE: 1" = 20'



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**L504**



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Landscape Architecture  
D.R. Horton  
Howey-in-the-Hills, Florida  
IRRIGATION PLAN

DRAWING BY: JAMES H. HORTON, 1/19/2021 10:45:29 PM  
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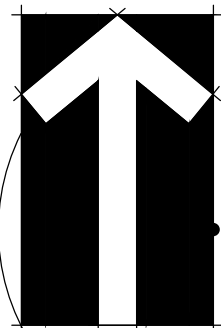
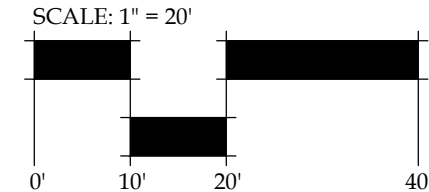
CONNECTION FOR LOTS 31-42

MATCHLINE L505  
MATCHLINE L506

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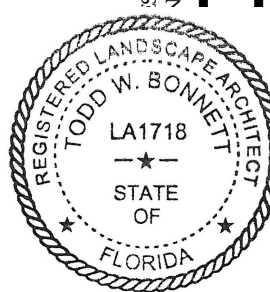


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#### NOTES

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DATE: December 10, 2021  
DRAWN BY: JM  
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JOB NUMBER: 2021.182  
FILE NAME: 2021.182\_DRIH-VENEZIA THIS\_IRRASE  
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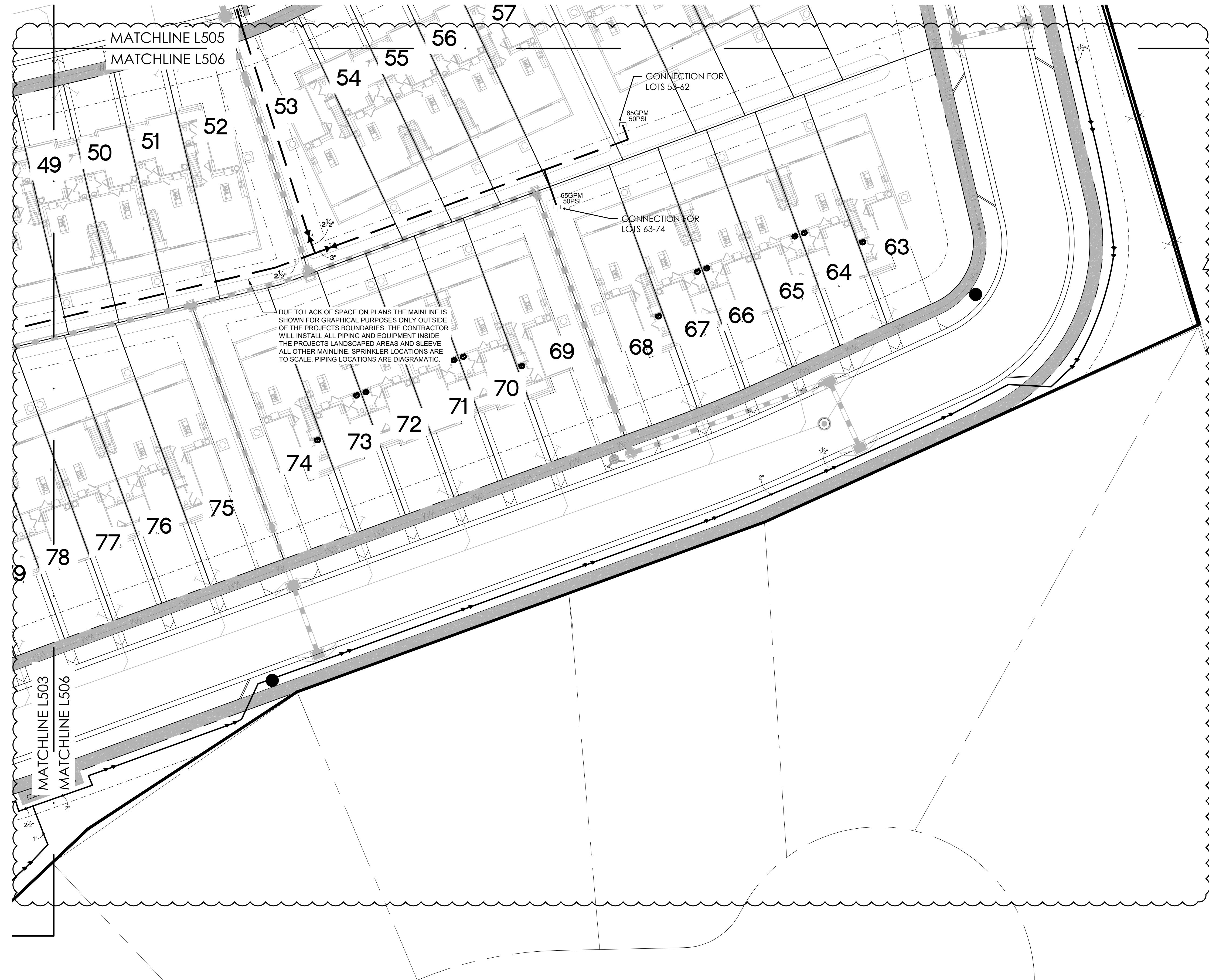
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**Venezia**  
Landscape Architecture  
D.R. Horton  
Howey-in-the-Hills, Florida  
IRRIGATION PLAN

**Bd g**  
BONNETT design group, llc  
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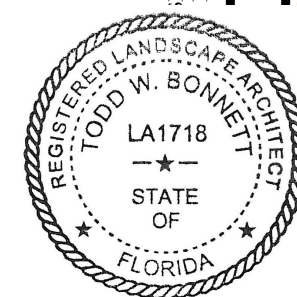
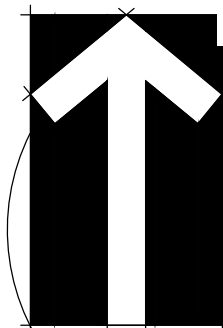
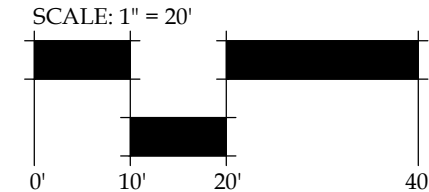


- NOTES
1. THIS SPRINKLER SYSTEM USES RECLAIMED WATER. THE IRRIGATION CONTRACTOR WILL INSTALL ALL SPRINKLER EQUIPMENT WITH PURPLE CAPS, TAGS, VALVE BOX LIDS, ETC. THE CONTRACTOR WILL POST "RECLAIMED WATER" SIGNAGE PER LOCAL CODES
  2. CONTRACTOR TO INSTALL RECLAIM IRRIGATION WATER NOTICE POC SIGNAGE, PER CITY OF PALM COAST DETAILS.

THE DESIGN PROFESSIONAL DOES NOT ACCEPT ANY/ALL RESPONSIBILITY AND/OR LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS. SPECIFICATIONS AND DESIGN INTENT THEY CONVEY OR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONALS GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.



NOTE: LANDSCAPING INDIVIDUAL RESIDENCES AND IRRIGATION SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH HOWEY-IN-THE-HILLS LDC (7.06.01) AND (7.08.01)



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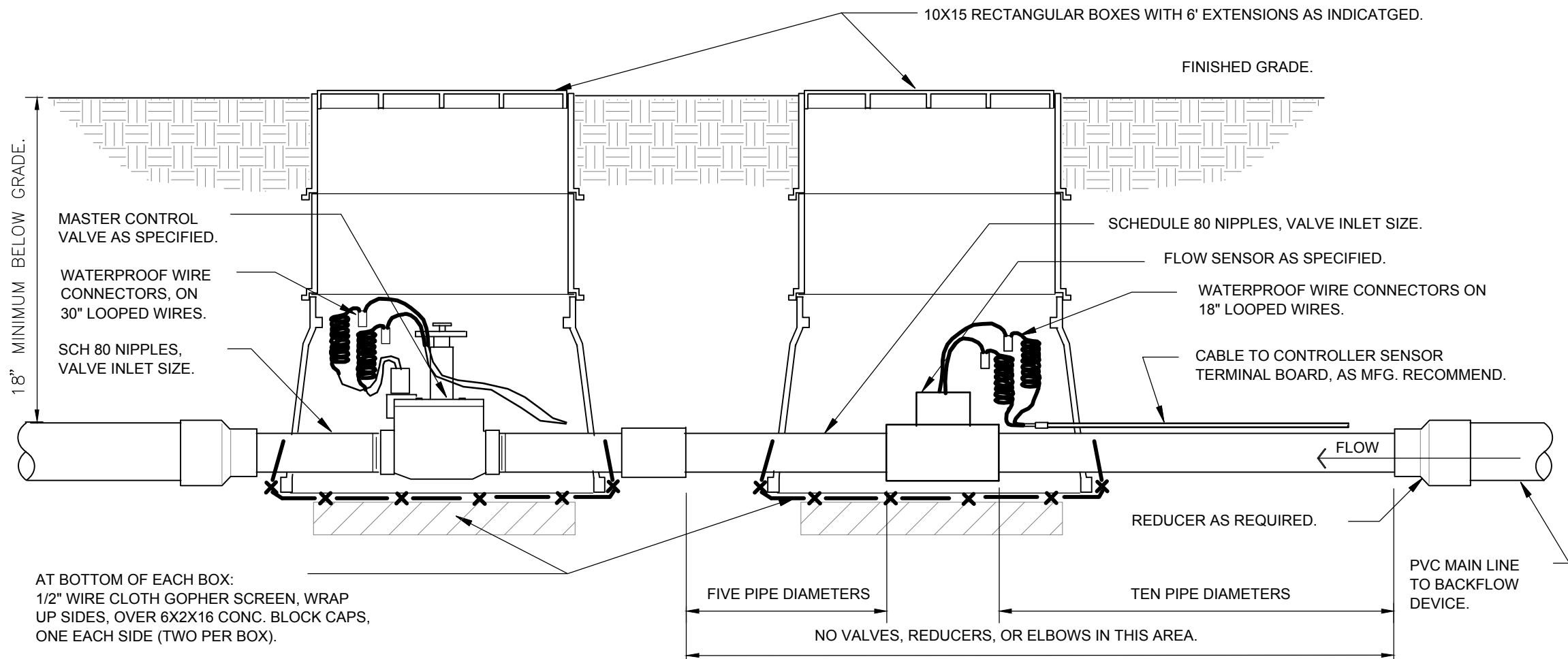
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Landscape Architecture  
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IRRIGATION PLAN

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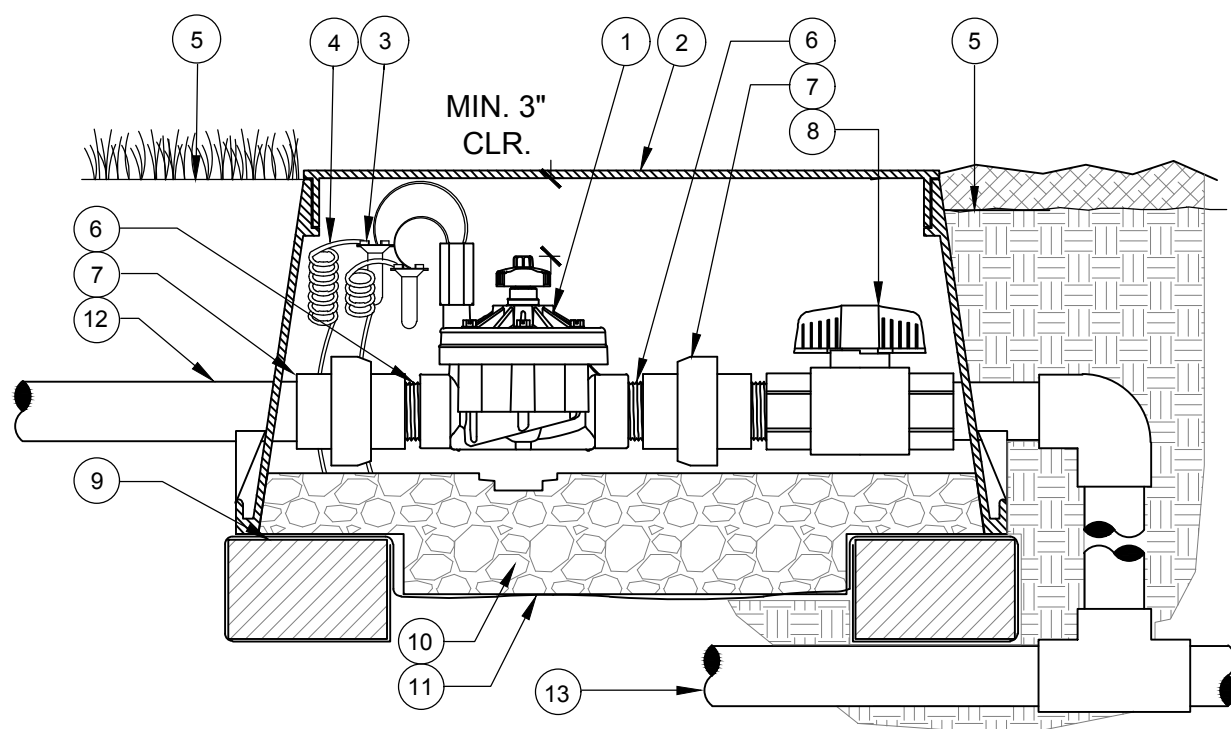
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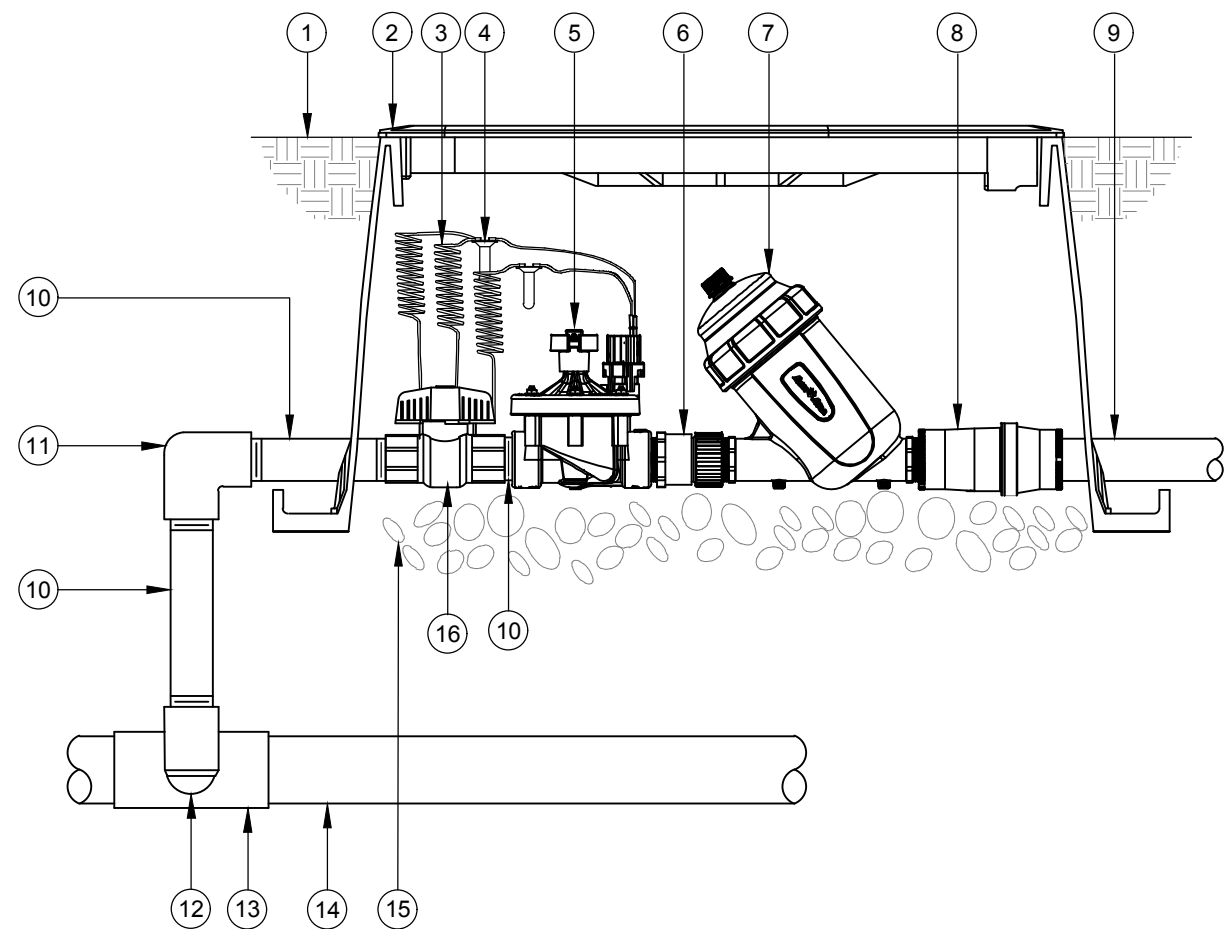
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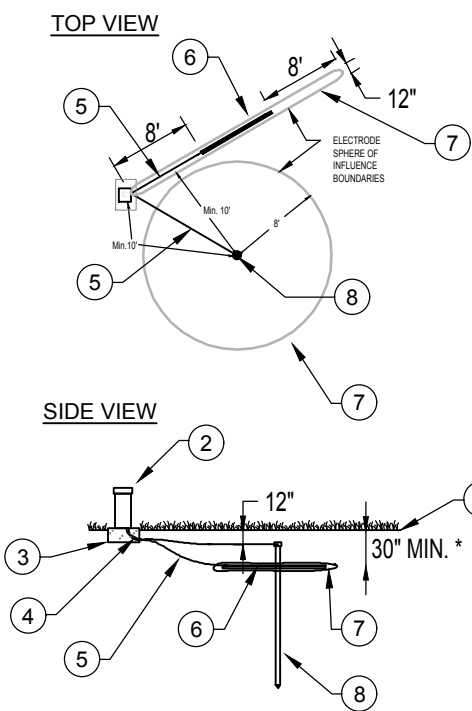
MASTER VALVE / FLOW SENSOR ASSEMBLY



ELECTRIC REMOTE CONTROL VALVE

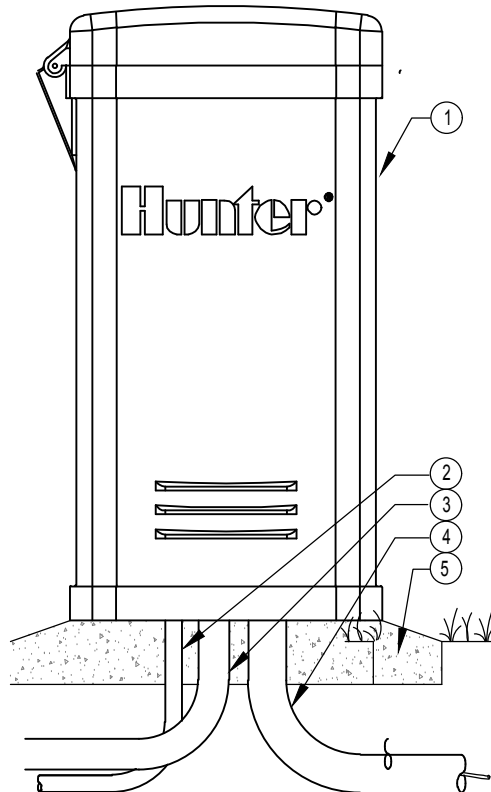


RAIN BIRD XCZ-150-LCDCR 1.5" COMMERCIAL CONTROL ZONE KIT IN JUMBO VALVE BOX



- NOTE:
- DO NOT INSTALL ANY OTHER WIRE OR CABLE WITHIN THE SPHERE OF INFLUENCE.
  - INSTALL GROUNDING PLATE MINIMUM 30" BELOW FINISHED GRADE, OR BELOW FROSTLINE, WHICHEVER IS DEEPER.
  - MEGGAR TEST GROUNDING GRID, MINIMUM 10 OHMS OR LESS REQUIRED, CONTRACTOR TO PROVIDE ON HIS LETTER HEAD, TIME, DATE, AND TEST RESULT. SUBMIT A COPY TO OWNER OR OWNERS REP. PRIOR TO FINAL WALK THROUGH

CONTROLLER GROUNDING DETAIL



ACC - PLASTIC PEDESTAL

## GENERAL IRRIGATION NOTES

- ALL MAINLINES TO HAVE A MINIMUM OF 18" OF COVER (CLASS 200 PVC PIPE).
- ALL LATERAL AND SUB-MAIN PIPE TO HAVE A MINIMUM OF 12" OF COVER (CLASS 200 PVC PIPE).
- NO ROCKS, BOULDER, OR OTHER EXTRANEIOUS MATERIALS TO BE USED IN BACKFILLING OF TRENCH.
- ALL PIPE TO BE INSTALLED AS PER MANUFACTURERS' SPECIFICATIONS.
- ALL THREADED JOINTS TO BE COATED WITH TEFLON TAPE OR LIQUID TEFLON.
- ALL LINES TO BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF SPRINKLER HEADS.
- SPRINKLER AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS.
- ALL ELECTRICAL JOINTS TO BE MADE USING WATERPROOF CONNECTIONS AS SHOWN ON DETAILS.
- ALL EQUIPMENT NOT SPECIFIED IN THE LEGEND SHALL BE DETERMINED AND FURNISHED BY THE CONTRACTOR.
- NO ELECTRICAL CONNECTIONS SHALL BE MADE IN THE FIELD EXCEPT AT A VALVE CONTROL BOX OR ANOTHER VALVE BOX SPECIFICALLY FOR CONNECTIONS.
- ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET MUST BE REFERRED TO THE IRRIGATION CONSULTANT BY THE CONTRACTOR FOR CLARIFICATION BEFORE PRECEDING WITH THE WORK.
- ALL 24 VOLT WIRE SHALL BE #12 UF/UL FOR COMMON WIRE, AND #14 UF/UL FOR CONTROL WIRES, DIRECT BURIAL, SOLID COPPER.
- CONTRACTOR TO BE RESPONSIBLE FOR PROPER COVERAGE OF AREAS TO BE WATERED. I.e ADJUST HEADS WITH INSUFFICIENT COVERAGE DUE TO BLOCKAGE BY EXISTING OR PROPOSED SITE FEATURES.
- CONTRACTOR TO REFER TO LANDSCAPE PLAN TO KEEP SPRINKLER EQUIPMENT AND ACCESSORY MATERIAL FROM INTERFERING WITH PROPER PLANTING. I.e VERIFY ROOT BALL SIZE FOR PLANTING.
- CONTRACTOR SHALL PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN A VALVE BOX (WRAP AROUND 3/4" PIPE 12 TIMES).
- SPRINKLERS IN LOW-LYING AREAS SHALL HAVE CHECK VALVES.
- ALL SPRINKLERS TO BE MOUNTED ON FLEX PIPE - REFER TO DETAILS.
- INSTALL DRIP LINE TUBING AND NON-PRESSURE LATERAL LEAD LINE PIPING IN LANDSCAPE AREAS AND ADJACENT TO SELECTED PLANT MATERIAL AS SHOWN IN DETAILS.
- CONTRACTOR SHALL UTILIZE VALVE I.D. TAGS ON ALL REMOTE CONTROL VALVES.
- 24 VOLT WIRE SHALL BE COLOR CODE: COMMON-WHITE, CONTROL-RED.
- CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDED GROUNDING EQUIPMENT FOR POWER SUPPLY AND VALVE OUTPUT WITH (2) 5/8" COPPER CLAD GROUND RODS.
- CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDATION ON FAULT GROUND AND LIGHTNING PROTECTION.
- CONTROLLER GROUNDING MUST BE PER ASIC REQUIREMENTS.
- ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR TO OWNER:
  - A. TWO WRENCHES FOR DISASSEMBLING AND ADJUSTING EACH TYPE OF SPRINKLER HEAD AND VALVE SUPPLIED.
  - B. TWO KEYS FOR EACH OF THE AUTOMATIC CONTROLLERS.
  - C. TWO QUICK COUPLER KEYS WITH MATCHING HOSE SWIVELS.
- SYSTEM IS DIAGRAMMATIC TO IMPROVE CLARITY. ALL MAINLINE PIPING, ELECTRIC VALVES AND WIRING ARE TO BE INSTALLED IN LANDSCAPE AREAS AND REFERENCE THE LANDSCAPE PLAN PRIOR TO THE INSTALLATION OF PIPING TO AVOID CONTACT WITH PLANT MATERIALS EXISTING OR NEW.
- CONTRACTOR TO ADD EXTENSION RISERS TO POP-UP HEADS WHEN NEEDED TO PROVIDE PROPER COVERAGE.
- CONTRACTOR SHALL INSTALL SPRINKLER EQUIPMENT 18" FROM FOUNDATIONS, ALSO INSTALL SPRINKLERS 4" FROM CURBS OR WALKS.
- PRIOR TO BID IRRIGATION CONTRACTOR SHALL VERIFY RIGHT-OF-WAY AND BACKFLOW REQUIREMENTS NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS. CONTRACTOR SHALL NOTIFY CONSULTANT OF ANY CHANGES FROM PLANS OR SPECIFICATIONS.
- IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER AND LANDSCAPE ARCHITECT WITH A REPRODUCIBLE AS-BUILT DRAWING OF THE INSTALLED IRRIGATION SYSTEM IN A PDF FILE FORMAT BEFORE FINAL ACCEPTANCE. PROVIDE CROSS-MEASURED LOCATIONS OF ALL VALVE LOCATIONS, CONTROLLER, WATER SOURCE, WIRE SPLICES, SLEEVE LOCATIONS, ETC.
- A 1-YEAR WARRANTY PERIOD SHALL BE PROVIDED FOR SYSTEM AFTER SUBSTANTIAL COMPLETION IS ACCEPTED. START UP AND ADJUSTING OF SYSTEM IN SPRING TIME SHALL BE INCLUDED IN WARRANTY.
- PRIOR TO BID, CONTRACTOR SHALL VERIFY THAT ALL MATERIAL, INSTALLATION PARAMETERS AND OPERATIONS CONFORM TO ALL APPLICABLE CODES AND ORDINANCES NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS. CONTRACTOR SHALL NOTIFY IRRIGATION CONSULTANT/DESIGNER OF ANY CHANGES REQUIRED DUE TO CURRENT CODE OR ORDINANCE DISCREPANCIES. IF CONTRACTOR DOES NOT COMPLY TO THIS NOTIFICATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY INSTALLATION CHANGE AND REDESIGN COSTS FOR NON-COMPLIANCE.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR MUST COMPLETE TWO PRESSURE TESTS OF THE IRRIGATION SYSTEM MAINLINE (BOTH TO SHOW NO DROP IN PRESSURE DURING DURATION OF THE TEST):
  - A. 2-HOUR PRESSURE TEST AT 1.5 TIMES THE SYSTEM STATIC PRESSURE
  - B. 24-HOUR PRESSURE TEST AT THE SYSTEM STATIC PRESSURE
- IRRIGATION INSTALLATION CONTRACTOR SHALL PROVIDE THE OWNER WITH A COLOR-CODED ZONE DIAGRAM PLAN, 8-1/2"x11" LAMINATED SHEET(S) WITH AN ELECTRONIC FILE COPY TO IDENTIFY CONTROLLER STATION TO THE CONTROL VALVE NUMBER FOR EACH CONTROLLER. THE LAMINATED CHART IS TO BE LOCATED IN AN ADHESIVE POULCH ATTACHED TO THE INSIDE OF CONTROLLER(S).
- THE CONTROLLER(S) SHALL SCHEDULE PROGRAM "A" TO A REGULAR RUN-TIME SETTINGS FOR AFTER THE ESTABLISHMENT PERIOD OF THE PLANT MATERIAL. PROGRAM "B" SHALL BE USED DURING THE ESTABLISHMENT PERIOD AND TURNED OFF AFTER THE 30-60 DAYS OF PLANT INSTALLATION.
- THE IRRIGATION CONTRACTOR WILL READ ALL SPECIFICATIONS AND REVIEW ALL DETAILS AND EXAMINE THESE PLANS CAREFULLY PRIOR TO BIDDING THIS PROJECT. FAILURE TO READ THIS INFORMATION IS NOT AN ACCEPTABLE REASON IF THE JOB IS UNDERBID.
- THE PLAN MAY NOT INCLUDE ALL MATERIALS. THIS DOESN'T RELIEVE THE CONTRACTOR FROM BEING RESPONSIBLE TO PROVIDE A COMPLETE SYSTEM IN PERFECT WORKING ORDER.

## IRRIGATION SYSTEM PERFORMANCE NOTES

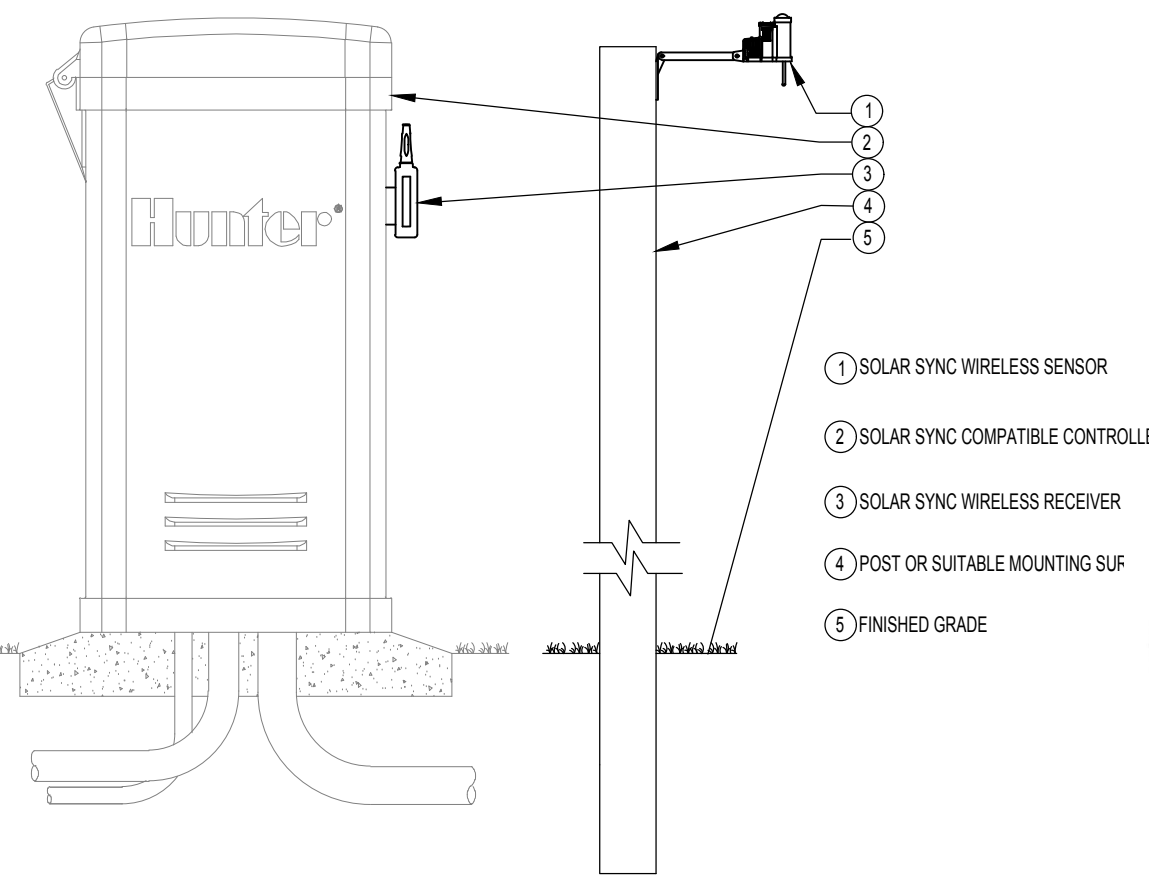
- IRRIGATION SYSTEM IS DESIGNED TO OPERATE OFF A RECLAIMED WATER METER PROVIDING A MINIMUM FLOW OF 72 GPM AND A MINIMUM PRESSURE OF 65 PSI.  
CONTRACTOR MUST CONTACT THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION IF THE AVAILABLE FLOW AND PRESSURE DEVIATES MORE THAN 5% OR WILL AFFECT THE PERFORMANCE OF THE SYSTEM.  
MINIMUM PRESSURE REQUIREMENTS - 65 PSI AT THE POINT OF CONNECTION  
A. 35 PSI AT THE BASE OF THE POP-UP ROTATORATOR HEADS  
B. 30 PSI AT THE BASE OF THE POP-UP SPRAY HEADS
- HEAD LAYOUT IS BASED ON BASE INFORMATION PROVIDED. HEADS SHALL BE ADJUSTED TO ACCOMMODATE FIELD VARIATIONS WHILE MAINTAINING 100% COVERAGE AND MINIMIZING OVER-SPRAY ONTO PAVED AREAS AND BUILDINGS.
- PIPE SHALL NOT BE USED FOR LATERAL PIPING

## DRIP TUBING NOTES

- INSTALL DRIP TUBING AT GRADE AND COVER WITH MULCH. TYPICAL SPACING FOR DRIP TUBING IS 12" TO 18" ON CENTER. SPACING TO BE DETERMINED BY PLANT LAYOUT. REFER TO LANDSCAPE PLAN. ANCHOR TUBING EVERY 10' WITH 12" LONG PLASTIC TUBING STAKES. INSTALL FLUSH VALVE ASSEMBLIES AT ALL TUBING 'DEAD ENDS'. INSTALL AIR/VACUUM RELIEF VALVES AT 'HIGH POINTS' OF EVERY SECTION.
- GRID LAYOUT SHALL BE USED ON THIS PROJECT. USE CENTER GRID LAYOUT WHERE POSSIBLE.
- WHEN SLEEVING DRIPLINE, USE BLANK DRIPLINE IN SLEEVE. SLEEVE SHALL BE 2X DRIPLINE DIAMETER. NO EMITTER DRIPLINE SHALL BE PLACED IN SLEEVE.
- THE LENGTH OF ANY DRIPLINE LATERAL SHALL NOT BE LONGER THAN:
  - a) @ 15 PSI = 155 FEET
  - b) @ 20 PSI = 169 FEET
  - c) @ 30 PSI = 230 FEET
  - d) @ 40 PSI = 255 FEETLATERAL DISTANCE DOUBLED WHEN CENTER FEED LAYOUT USED (SEE CENTER FEED LAYOUT DETAIL).
- MANUAL FLUSH VALVE SHALL BE USED & PLACED WITH A 6" X 6" SUMP. VALVES SHALL BE OPENED EVERY WATERING DAY FOR 2 WEEKS AND THEN A MINIMUM OF 2 TIMES A YEAR TO CLEAR DRIP LINE OF DEBRIS.
- AIR/VACUUM RELIEF SHALL BE INSTALLED WHEN THE CHANGE IN SLOPE OCCURS 3% OR GREATER.
- STAPLES SHALL BE USED AT 5' O.C. AND 2 STAPLES 'X'ED OVER EACH OTHER WITH ANY CHANGE IN DIRECTION, ELBOWS, OR CROSSES.
- SUPPLY, EXHAUST HEADERS AND DRIPLINE SHALL BE PLACED 2"-4" FROM PLANTS AND PAVEMENT EDGES.
- BLANK DRIPLINE SHALL BE USED FOR ALL SUPPLY AND EXHAUST HEADERS, UNLESS OTHERWISE NOTED ON PLANS.
- PRIOR TO COVERING DRIPLINE, DRIPLINE CIRCUIT WILL BE PRESSURIZED AND TESTED FOR PROPER OPERATION.
- DRIP LINE LATERALS SHALL BE LAID IN THE LONGEST RUN, WHETHER IT BE THE WIDTH OR LENGTH OF THE ZONE.

## RECLAIMED WATER NOTES

- ALL PIPE SHALL BE PURPLE WATER TYPE.
- ALL MAINLINE SHALL HAVE MAGNETIC MARKER TAPE PLACED IN THE TRENCH 6" ABOVE THE PIPE.
- ALL SPRINKLER HEADS SHALL HAVE PURPLE RECLAIMED IDENTIFICATION.
- ALL MANUAL AND ELECTRIC VALVES SHALL HAVE TAGS TO INDICATE RECLAIMED WATER.
- ALL VALVE BOXES SHALL HAVE PURPLE LIDS TO INDICATE THE PRESENCE OF RE-USE WATER.
- ALL CROSSINGS OF IRRIGATION PIPING AND POTABLE WATER LINES SHALL HAVE THE VERTICAL CLEARANCE VISUALLY VERIFIED AND THE VERIFICATION MUST BE SHOWN ON THE AS-BUILT DRAWING BY DOCUMENTING THE VERTICAL MEASUREMENTS SEPARATING THE PIPES.
- THE VERTICAL SEPARATION BETWEEN THE POTABLE AND RECLAIMED WATER LINES SHALL BE A MINIMUM OF 18". THIS SEPARATION SHALL BE VERIFIED AND DOCUMENTED IN A SET OF AS-BUILT'S DRAWINGS AS PER SPECIFICATIONS. THE HORIZONTAL SEPARATION SHALL BE 5' CENTER TO CENTER AND 3' OUTSIDE TO OUTSIDE IF VERTICAL MINIMUM OF 18" IS NOT MET. REFER TO THE SPECIFIC CODE IF THESE SEPARATIONS CANNOT BE MET.



SOLAR SYNC WIRELESS WITH PEDESTAL CONTROLLER

# Venezia

## Landscape Architecture

D.R. Horton  
Howey-in-the-Hills, Florida

### IRRIGATION DETAILS & NOTES



BONNETT design group, llc  
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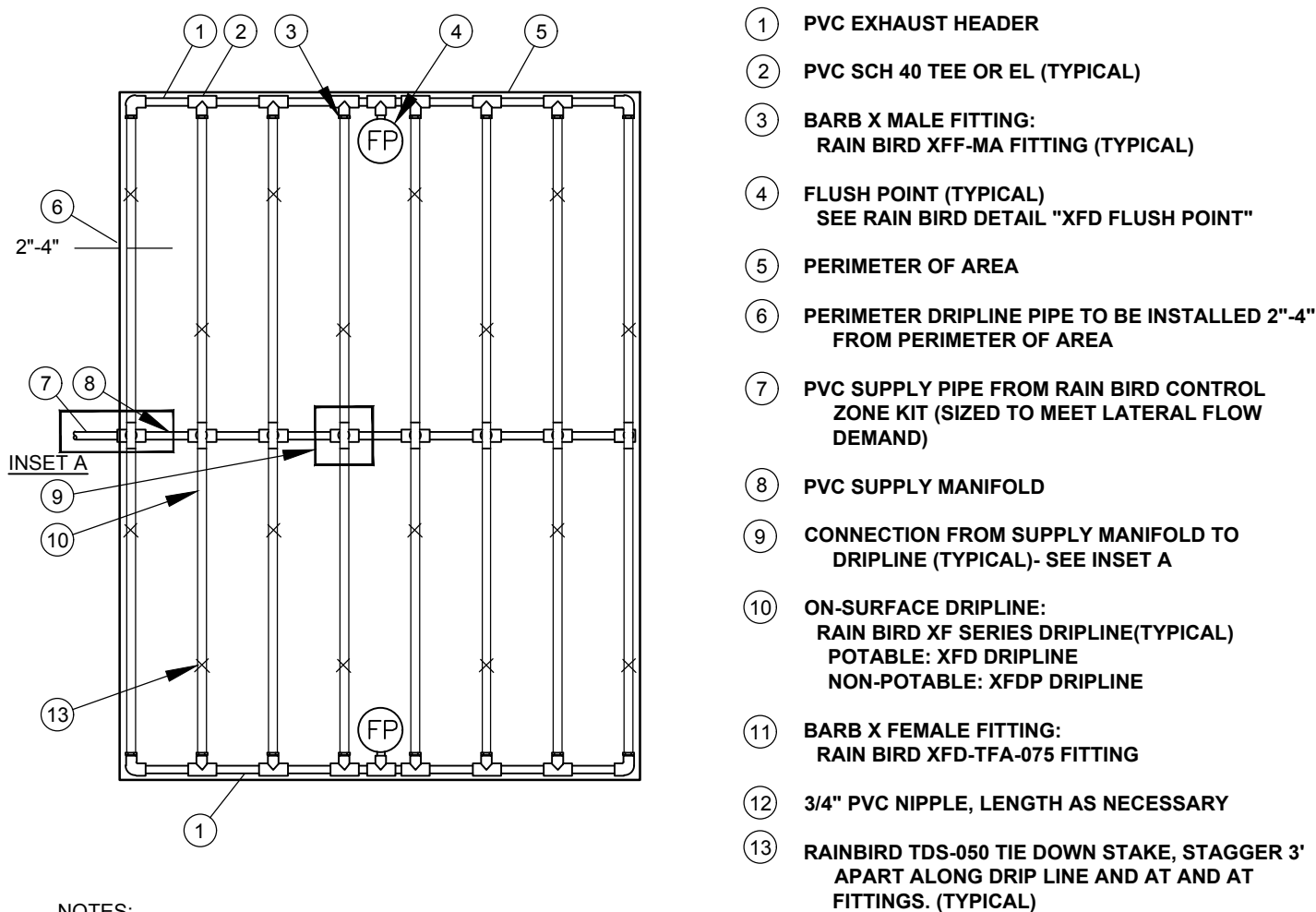
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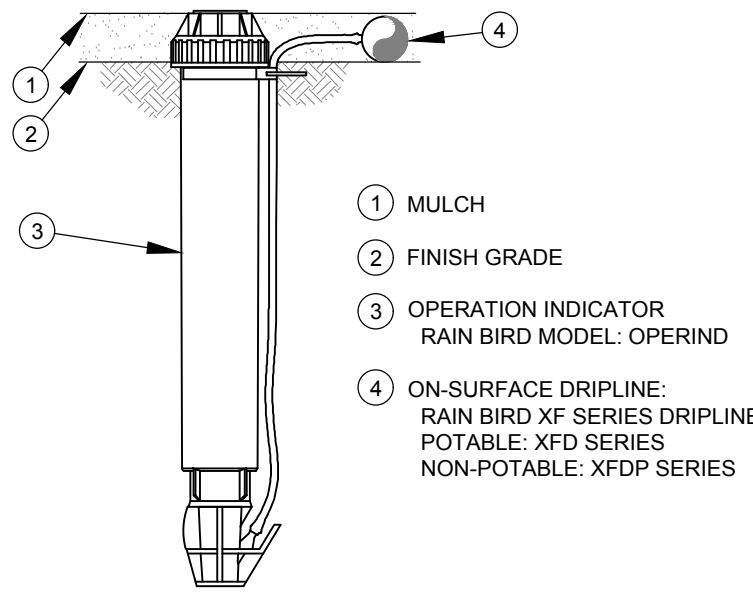
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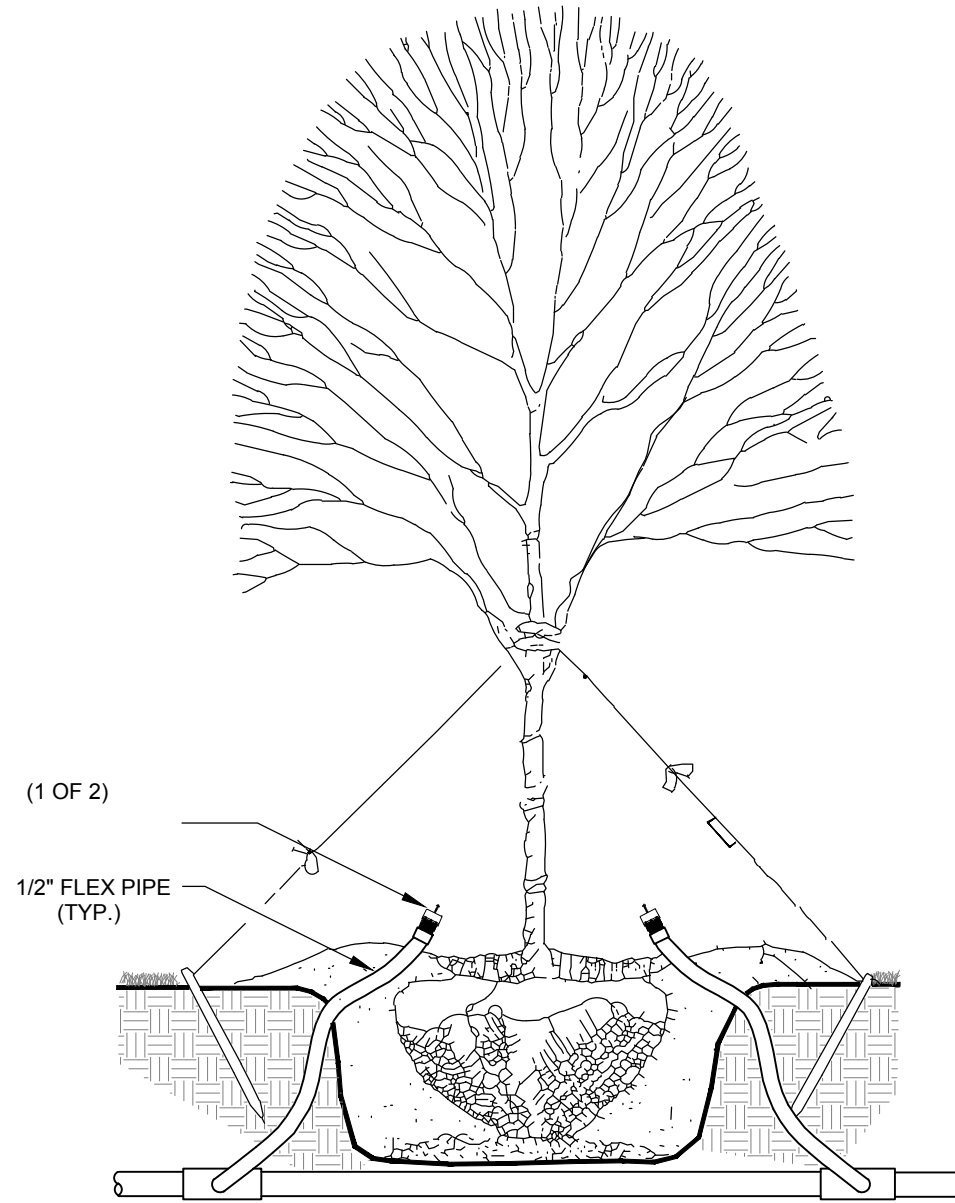
- NOTES:
- DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION.
  - LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE
  - WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

#### XFD ON-SURFACE DRIPLINE - CENTER FEED LAYOUT



- NOTE:
- INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.
  - VAN NOZZLE MAY BE SET TO CLOSED, OR IF IT IS DESIRED TO SEE SPRAY FROM THE NOZZLE, SET THE ARC TO ¼ PATTERN.

#### ON-SURFACE DRIPLINE OPERATIONAL INDICATOR



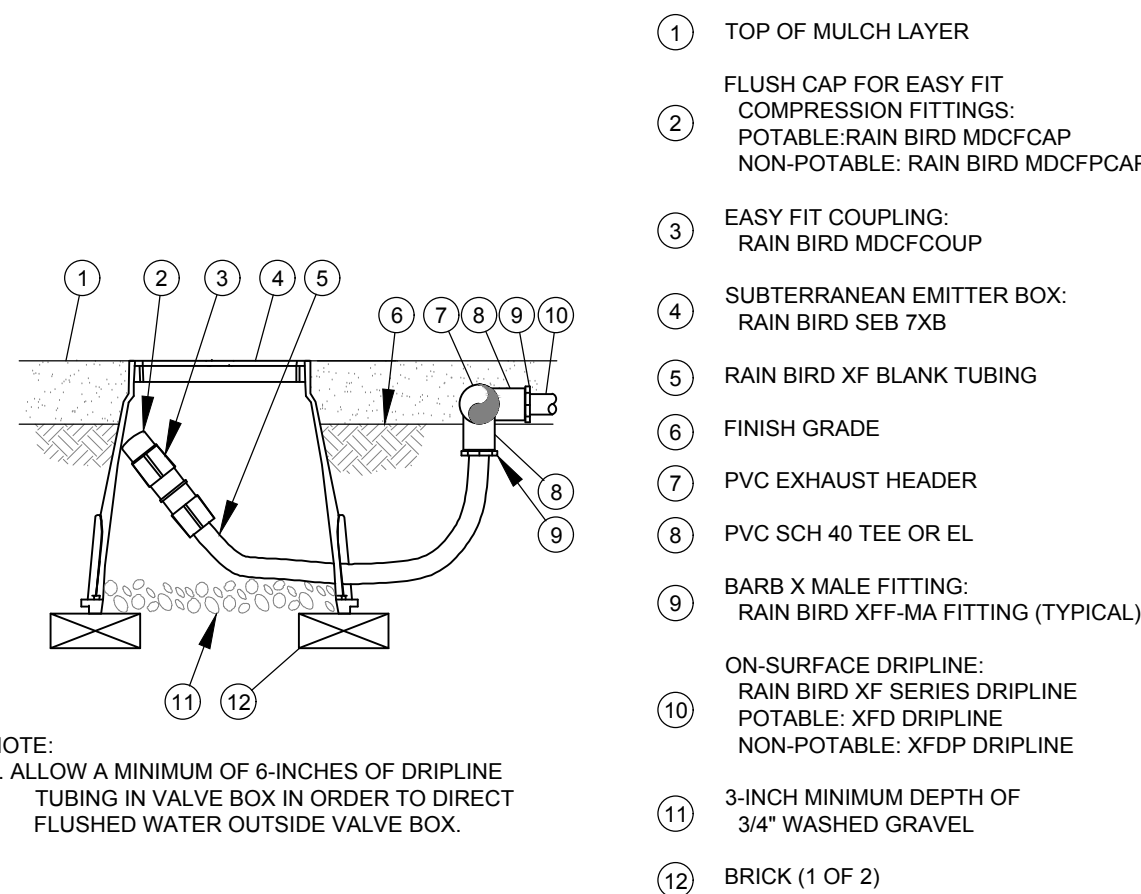
IRRIGATION CONTRACTOR IS TO  
AVOID ANY CONTACT WITH THE  
ROOT BALL OF THE TREE

#### TREE BUBBLER DETAIL

#### TREE IRRIGATION AFTER PLANTING DURING ESTABLISHMENT

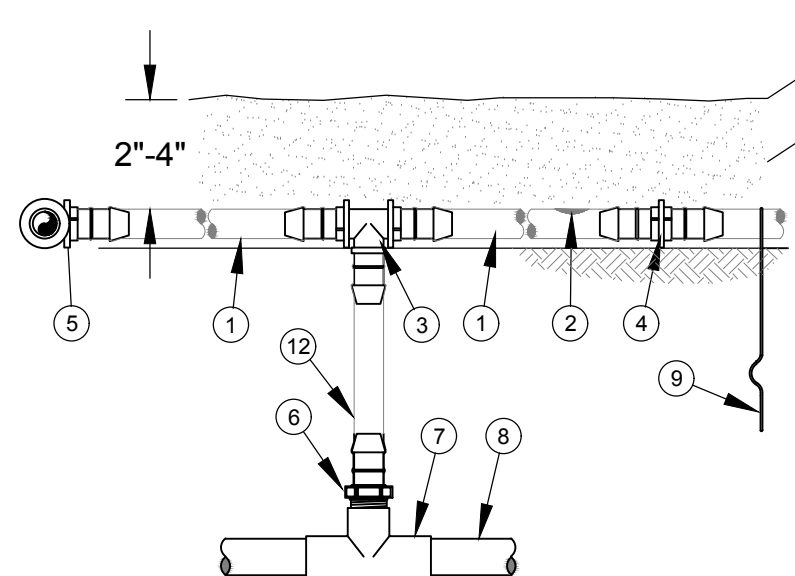
SIZE OF NURSERY STOCK	IRRIGATION SCHEDULE FOR VITALITY
LESS THAN 2" CALIPER	DAILY FOR TWO WEEKS, EVERY OTHER DAY FOR TWO MONTHS, WEEKLY UNTIL ESTABLISHED
2"-4" CALIPER	DAILY FOR ONE MONTH, EVERY OTHER DAY FOR THREE MONTHS, WEEKLY UNTIL ESTABLISHED
GREATER THAN 4" CALIPER	DAILY FOR SIX WEEKS, EVERY OTHER DAY FOR FIVE MONTHS, WEEKLY UNTIL ESTABLISHED

- AT EACH IRRIGATION, APPLY TWO TO THREE GALLONS PER INCH TRUNK CALIPER AT THE ROOT BALL SURFACE. APPLY IT IN A MANNER SO ALL WATER SOAKS THE ENTIRE ROOT BALL. DO NOT WATER IF THE ROOT BALL IS WET/SATURATED ON THE IRRIGATION DAY
- DELETE DAILY IRRIGATION WHEN PLANTING IN WINTER. ESTABLISHMENT TAKES THREE (HARDINESS ZONE 10-11) TO FOUR (HARDINESS ZONE 8-9) MONTHS PER INCH TRUNK CALIPER. NEVER APPLY IRRIGATION IF THE SOIL IS SATURATED.



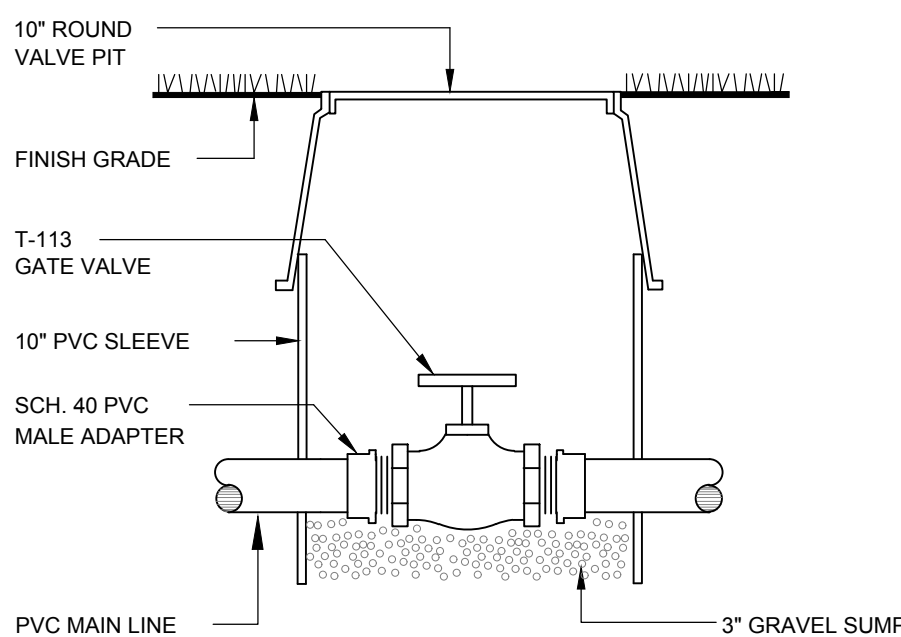
- NOTE:
- ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

#### XFD ON-SURFACE DRIPLINE FLUSH POINT

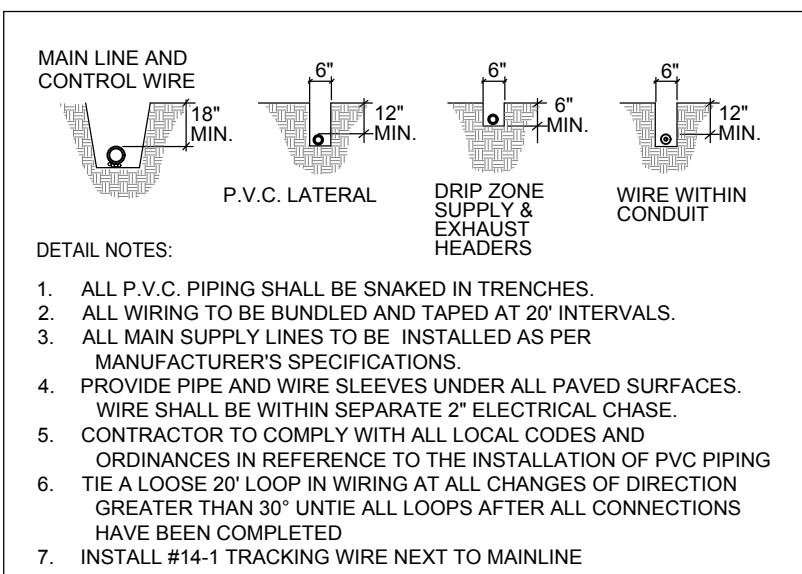


- NOTES:
- PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
  - AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

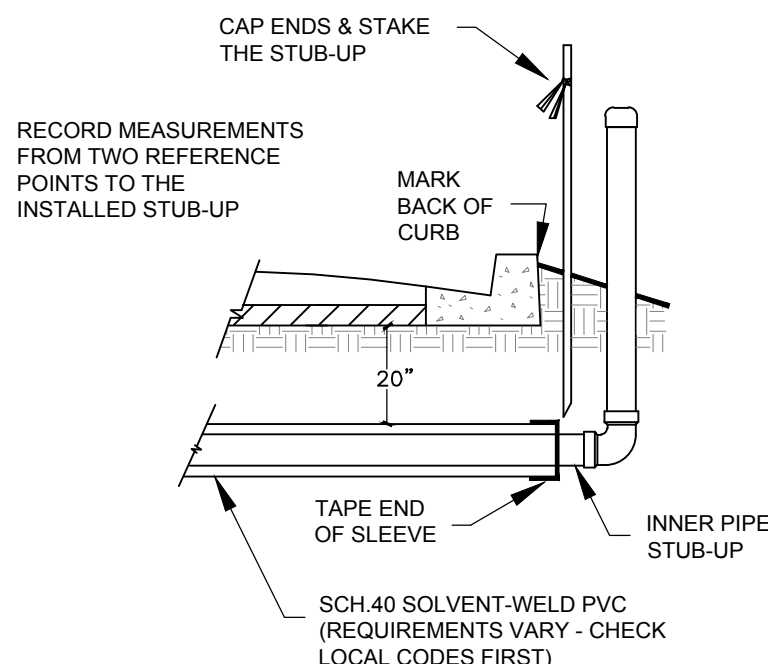
#### XFD ON-SURFACE DRIPLINE RISER ASSEMBLY



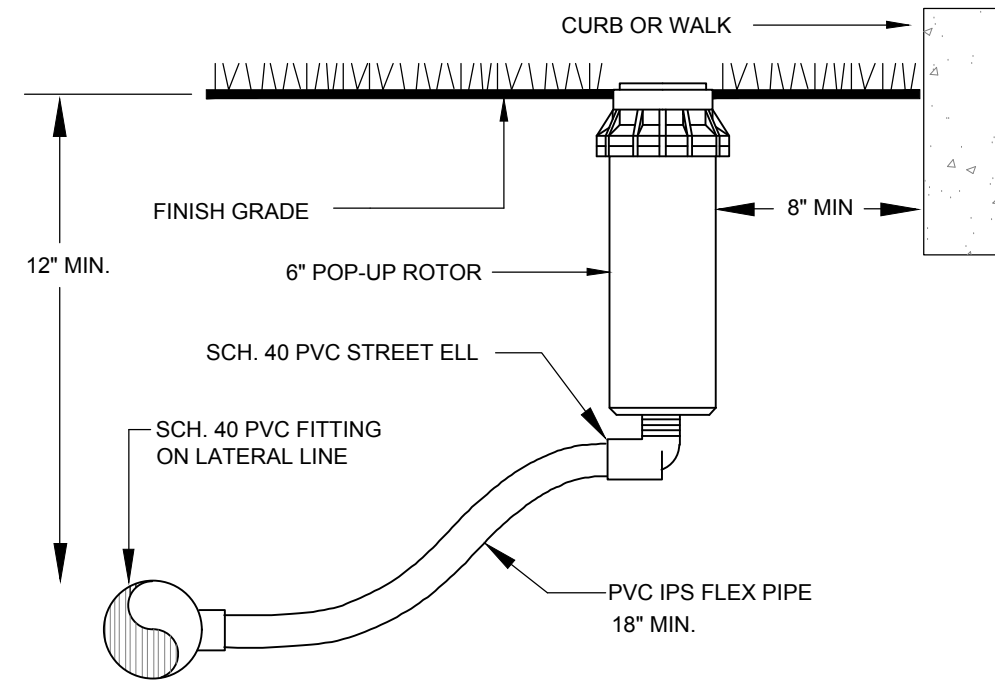
#### ISOLATION GATE VALVE



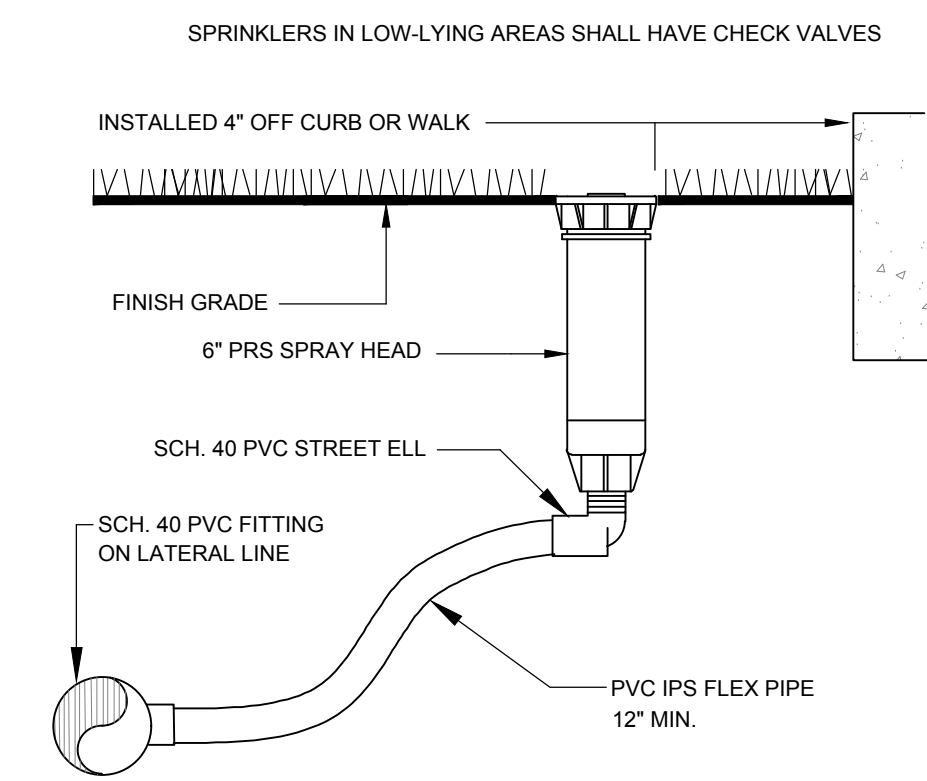
#### TRENCHING DETAIL



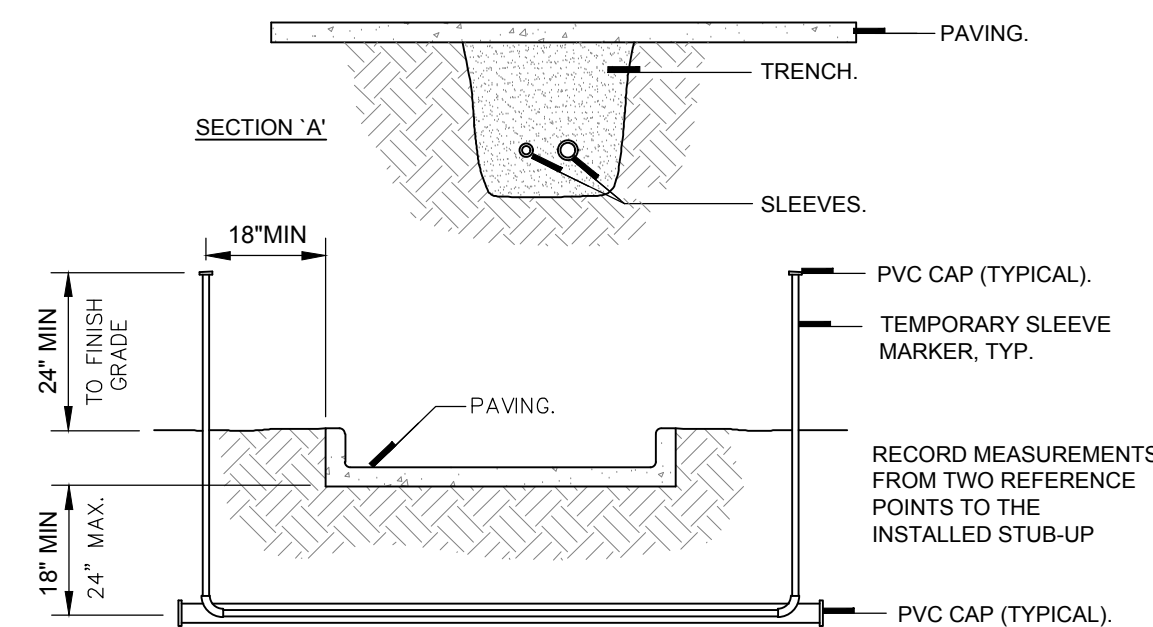
#### ROUGH IN SLEEVING DETAIL



#### TURF ROTOR HEAD



#### 6" POP-UP SPRAY HEAD DETAIL



- NOTES
- IRRIGATION SLEEVES SHALL BE CLASS 200 PIPE FOR 4" AND LARGER AND SCHEDULE 40 PVC FOR 3" AND SMALLER.
  - ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
  - WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND THE SMALLER SLEEVE TO 24-INCHES MINIMUM ABOVE FINISH GRADE AND MARK ALL SLEEVE LOCATIONS. REMOVE EXTENSION WHEN SLEEVE IS UTILIZED.
  - MECHANICALLY TAMP TO 95% PROCTOR.
  - SLEEVE SHALL BE TWO (2) TIMES DIAMETER OF NOMINAL SIZE OF PIPE WITHIN SLEEVE.

#### IRRIGATION SLEEVE DETAIL



# Venezia

## Landscape Architecture

D.R. Horton  
Howey-in-the-Hills, Florida

### IRRIGATION DETAILS & NOTES

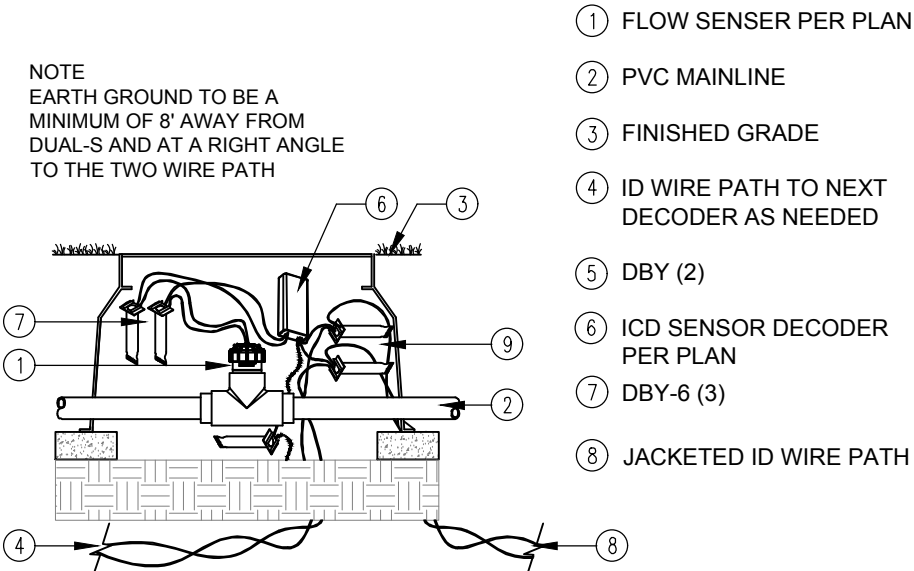
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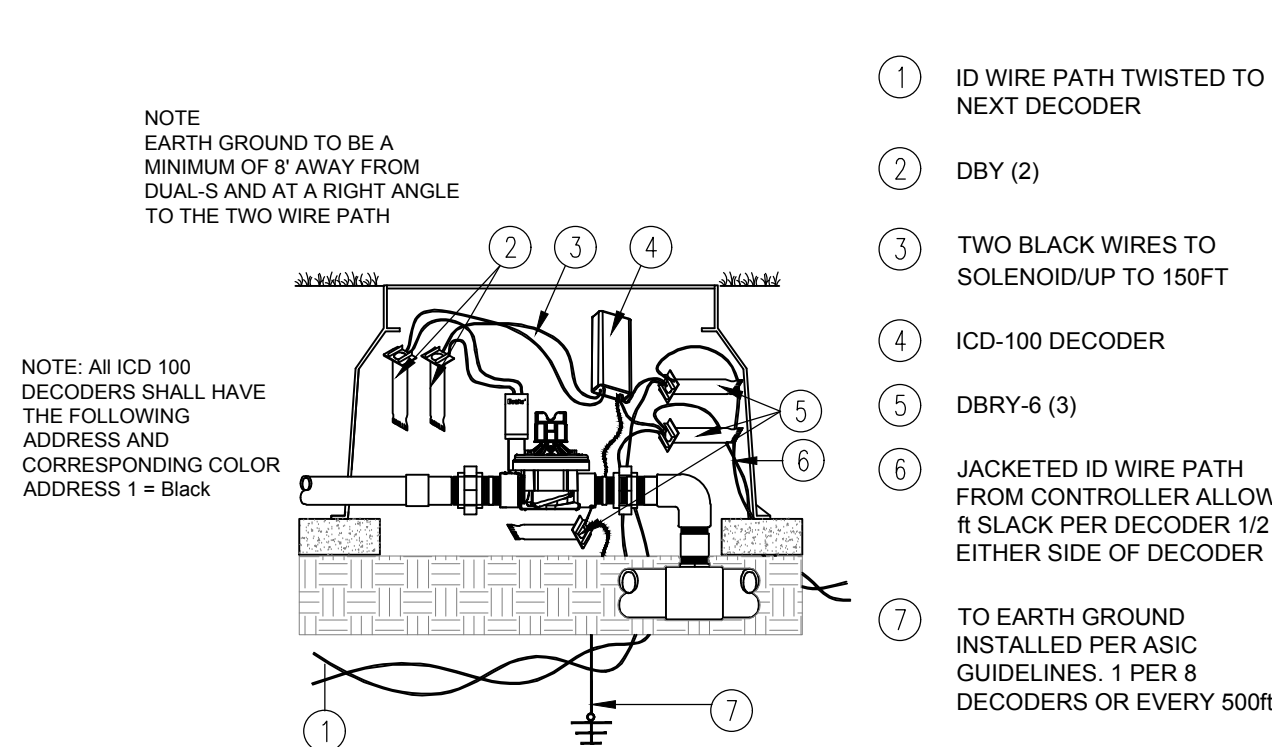
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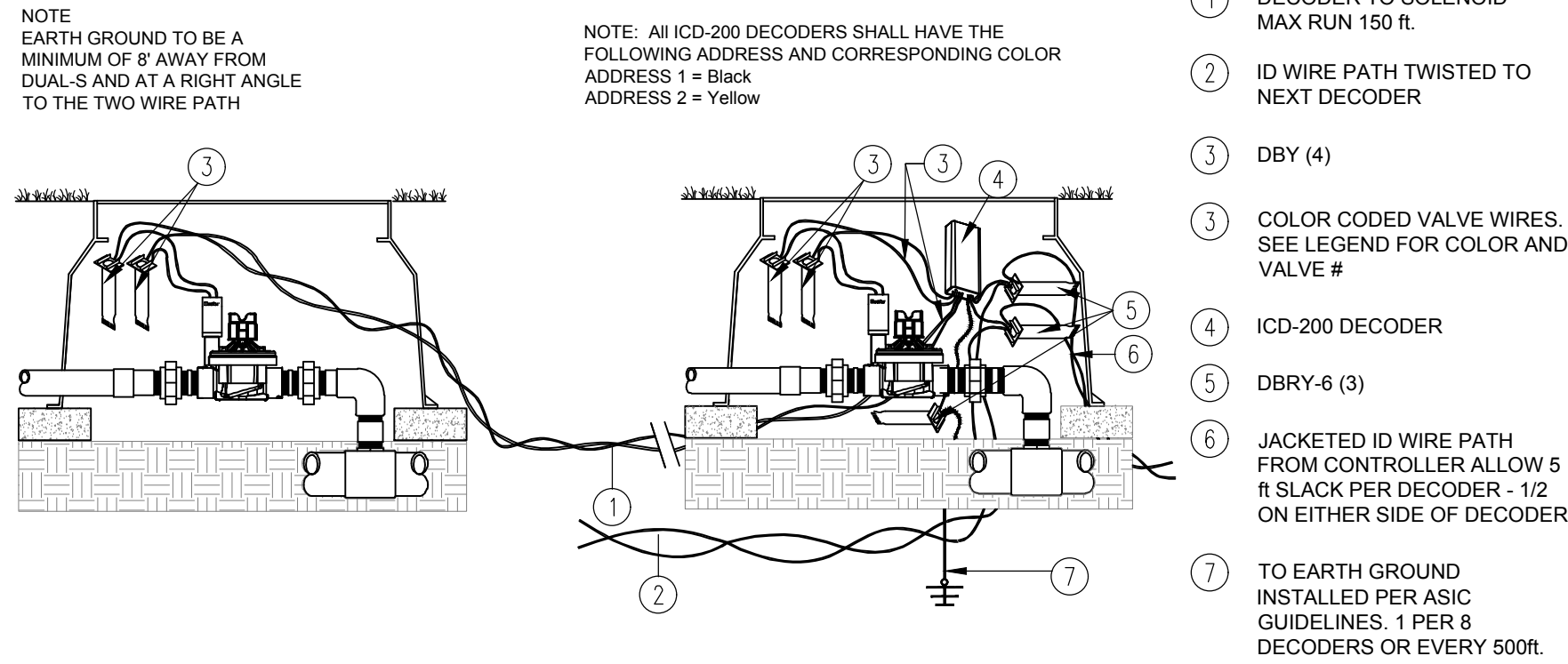
THE DESIGN PROFESSIONAL DOES NOT ACCEPT ANY/ALL RESPONSIBILITY AND/OR LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT. THEY CONVEY OR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONALS GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.



ICD SENSOR DECODER



ICD-100 DECODER



ICD-200 DECODER

TWO-WIRE DECODER CONTROL SYSTEM NOTES

1. THE DECODERS MAY BE LABELED AND PROGRAMMED AT THE CONTROLLER PRIOR TO INSTALLATION.
2. DO NOT CREATE DUPLICATE STATION ADDRESSES FOR DECODERS.
3. A ICD-SEN SENSOR DECODER SHALL BE USED TO ACCEPT INPUTS FROM SENSORS. EACH ICD-SEN ALSO HAS 2 COLOR-CODED LOOPS CALLED "PORTS".
4. HFS FLOW SENSORS CAN ONLY BE CONNECTED TO "PORT A" OF THE ICD-SEN.
5. THE TWO WIRE CABLE SHALL BE A SOLID-CORE, COLOR-CODED, TWISTED-PAIR CABLE.
6. GROUND ONE DECODER AT THE END OF THE WIRE PATH AND ONE DECODER GROUNDED EVERY 500' OR 8TH DECODER WHICHEVER IS SHORTER.
7. BOTH THE CONTROLLER AND DECODER ARE TO BE GROUNDED TO GROUND RODS OR PLATES WITH LESS THAN 10 OHMS RESISTANCE.
8. ALL TWO-WIRE SYSTEM COMPONENTS ARE TO BE INSTALLED PER THE HUNTER ACC/ACC DECODER SPECIFICATIONS.
9. ALL CONNECTIONS AND SPLICES IN THE TWO-WIRE PATH MUST BE MADE WITH DBRY-6 OR EQUAL WATERPROOF CONNECTORS.
10. ALL T-SPLICES MUST BE MADE IN VALVE BOXES WITH DBRY-6 OR EQUAL WATERPROOF CONNECTIONS.
11. INSTALL THE GROUNDING WIRE AND EARTH GROUND HARDWARE AT RIGHT ANGLES TO THE RUN OF THE TWO-WIRE PATH.
12. FROM THE DECODER OUTPUTS TO INDIVIDUAL SOLENOIDS, USE STANDARD IRRIGATION WIRE SIZED FOR THE LENGTH OF THE RUN.
13. WIRING FROM THE DECODER TO THE SOLENOID SHOULD NOT EXCEED 150 FT.
14. WHEN DOUBLING SOLENOIDS ON A DECODER OUTPUT, WIRE THE SOLENOIDS IN PARALLEL RATHER THAN IN SERIES.
15. TWO-WIRE DECODER CABLE SHALL BE INSTALLED WITHIN A 1" CONDUIT UTILIZING SWEEPS INSTEAD OF 90'S.

PLAN NOTES: HUNTER ACC2 DECODER CONTROLLER

DECODERS: The controller shall interface to Hunter ICD decoders capable of controlling 1, 2, 4 or 6 valves per unit (ICD-100, ICD200, ICD400 and ICD-600). Provide an ICD-SEN sensor decoder for the flow sensors and Clik sensors. Maximum distance from decoder output to solenoid under normal conditions is 150 ft. Integrated surge protection shall eliminate the need for extra surge protection devices.

WIRE: The Hunter ACC2 Decoder Controller requires twisted wire meeting their specification on all paths of the ACC2 Decoder Controller (Hunter IDWIRE, Paige Electric P7354D or equal). IDWIRE1 (14 AWG) is recommended for wire path length up to 10,000 ft and IDWIRE2 (12 AWG) for wire path length up to 15,000 ft. The controller allows up to 3 two-wire paths per output module. The jacket colors shall be such to facilitate the identification of various wire path zones. Looping a two-wire path from one output to another (back to the controller) is not recommended. Provide an additional 36-inch of loose wire (measured from top of valve box), rolled up to the side in all splice boxes and valve boxes. All connections and splices in the red/blue two-wire path must be made with DBRY-6 or equal waterproof connectors and installed in a valve box. IT IS ESSENTIAL THAT ALL CONNECTIONS BE ABSOLUTELY WATERTIGHT WITH NO LEAKAGE TO GROUND NOR SHORTING BETWEEN CONDUCTORS.

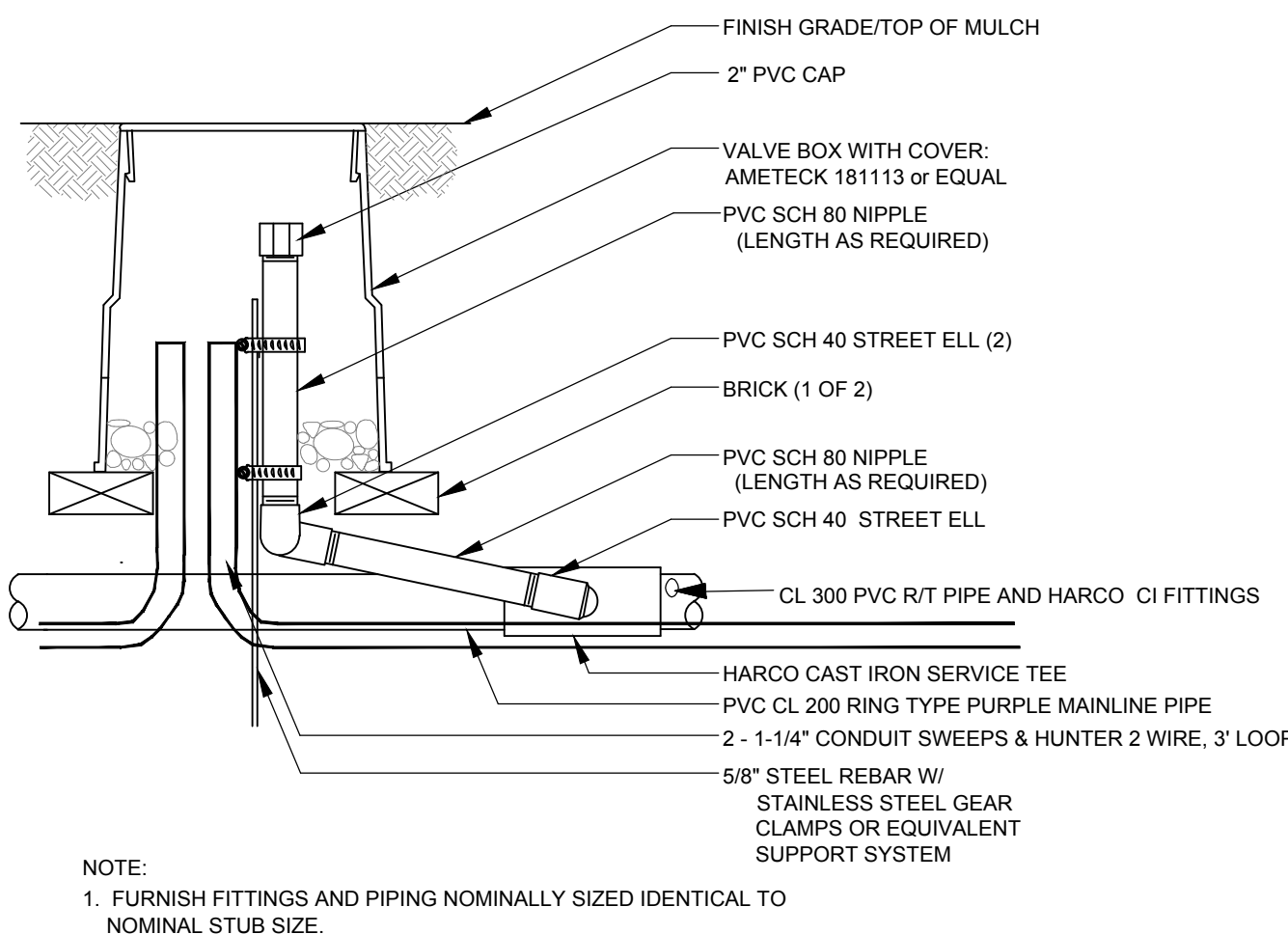
GROUNDING: All grounding and installation of equipment specified, shall be installed in strict compliance with the Manufacturer's recommendations and in accordance with Local, State and Federal requirements. Both the controller and the decoders shall be grounded to ground rods or plates with less than 10 Ohms resistance. At a minimum, earth ground should be connected at the first decoder, every 12th valve/decoder, or 1,000 ft of wire run (whichever is shorter) and at the last valve/decoder in any wire run. The solid copper grounding plate shall have a pre-welded #6 AWG insulated green-yellow wire, and Power Set Earth Contact Material. The ground plates are to be installed to a minimum depth of 30". Keep electronic equipment, underground wires, and cables outside of the sphere of influence. Ground plates shall be made of a copper alloy intended for grounding applications and have minimum dimensions as follows:

a. For grounding controllers - 4" x 8" x 0.0625" solid copper grounding plate, a 25-foot continuous length of 6 AWG, green insulated, with extruded yellow stripe, solid bare copper wire welded to the plate (Paige Electric 162199C) and two 50lb bags of Power Set Earth Contact Material.

b. For grounding decoders - 4" x 3" x 0.0625" solid copper grounding plate, a 15-foot continuous length of 10 AWG, green insulated, with extruded yellow stripe, solid bare copper wire is welded to the plate (Paige Electric 182201C) and one 50lb bag of Power Set Earth Contact Material.

When using ground rods, provide 5/8" diameter x 8' long copper clad steel ground rods with 15' pre-welded #6 AWG insulated green-yellow wire (Paige Electric part # 1820007IC6). The rods are to be driven into the ground in a vertical position or an oblique angle not to exceed 45 degrees at a location 10 feet from the electronic equipment, the ground plate, or the wires and cables connected to said equipment. The grounding rods shall be covered by a valve box. Install all grounding circuit components in straight lines. Reference the Grounding Details and/or Paige Electric Wiring Guide <https://www.paigewire.com>

LIGHTNING ARRESTOR: Protect the controller from surges coming from the 120 or 240 Vac wires by installing Paige Electric 250090LED lightning arrestor. This arrestor incorporates a visible green LED to indicate that the unit is ready to fire in case of a power or lightning surge. Reference Paige Electric Wiring Guide <https://www.paigewire.com>



3" STUB FOR FUTURE CONNECTION

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	HEADS	PIPE 1"	PIPE 1 1/4"	PIPE 1 1/2"	PIPE 2"	PIPE 2 1/2"	DESIGN PSI	VALVE LOSS	PSI	PSI @ POC	PRECIP
1	Rain Bird PESBR	1-1/2"	Turf Rotor	25.83	10	254.5	21.1				35	3.27	40.29	46.89	0.61 in/h
2	Rain Bird XCZ-150-LCDR	1-1/2"	Area for Dripline	24.65	1,643 l.f.	95.4	15.1				20	4.79	26.75	33.4	1.44 in/h
3	Rain Bird PESBR	1-1/2"	Bubbler	30.00	60	493.6	84.7	34.0	10.5		20	3.1	24.96	32.24	2.1 in/h
4	Rain Bird PESBR	1-1/2"	Turf Spray	29.14	44	390.5		7.6			30	3.13	35.23	42.57	0.99 in/h
5	Rain Bird XCZ-150-LCDR	1-1/2"	Area for Dripline	27.83	1,855 l.f.	234.3	47.6	4.7			20	5.13	26.96	35.5	1.44 in/h
6	Rain Bird PESBR	1-1/2"	Turf Spray	38.08	54	386.2	91.8		7.6		30	2.45	35.34	43.92	0.96 in/h
7	Rain Bird PESBR	1-1/2"	Bubbler	34.00	68	321.9	121.4	18.7	10.6		20	2.78	24.77	33.54	2.1 in/h
8	Rain Bird XCZ-150-LCDR	1-1/2"	Area for Dripline	22.86	1,524 l.f.	539.4	45.6		14.5		20	4.26	26.77	36.17	1.44 in/h
9	Rain Bird PESBR	1-1/2"	Turf Spray	34.24	58	424.0	32.4		7.3		30	2.76	35.59	45.59	0.92 in/h
10	Rain Bird PESBR	1-1/2"	Bubbler	31.00	62	473.1	97.9		10.5		20	3.02	24.53	34.73	2.08 in/h
11	Rain Bird PESBR	1-1/2"	Bubbler	41.00	82	558.7	152.0	251.9	340.8	48.8	20	2.28	27.91	38.76	2.12 in/h
12	Rain Bird PESBR	1-1/2"	Turf Rotor	31.31	11	314.3	25.0	4.2			35	3	39.12	50.22	0.57 in/h

WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	IN./WEEK	MIN./WEEK	GAL./WEEK
1	Rain Bird PESBR	Turf Rotor	0.61 in/h	1	98	2,531
2	Rain Bird XCZ-150-LCDR	Area for Dripline	1.44 in/h	1	42	1,035
3	Rain Bird PESBR	Bubbler	2.1 in/h	1	29	870
4	Rain Bird PESBR	Turf Spray	0.99 in/h	1	61	1,778
5	Rain Bird XCZ-150-LCDR	Area for Dripline	1.44 in/h	1	42	1,169
6	Rain Bird PESBR	Turf Spray	0.96 in/h	1	63	2,399
7	Rain Bird PESBR	Bubbler	2.1 in/h	1	29	986
8	Rain Bird XCZ-150-LCDR	Area for Dripline	1.44 in/h	1	42	960.1
9	Rain Bird PESBR	Turf Spray	0.92 in/h	1	66	2,260
10	Rain Bird PESBR	Bubbler	2.08 in/h	1	29	899
11	Rain Bird PESBR	Bubbler	2.12 in/h	1	29	1,189
12	Rain Bird PESBR	Turf Rotor	0.57 in/h	1	105	3,288

- WATER APPLICATION(S) TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND/OR WATER MANAGEMENT DISTRICT RULES & REGULATIONS.
- WATERING SCHEDULE IS BASED ON A ONE (1) DAY APPLICATION TO PROVIDE A ONE (1) ACRE INCH VOLUME OF WATER PER WEEK.
- DURATION OF WATERING TIMES SHALL BE ADJUSTED FOR MULTIPLE WATERING DAYS, IF ALLOWED. (I.E. ONE-HALF OF THE RECOMMENDED TIME IS REQUIRED FOR A TWO (2) DAY PER WEEK SCHEDULE.
- WATERING SCHEDULE IS PROVIDED FOR PURPOSES OF ASCERTAINING WATER VOLUME REQUIREMENTS FROM AVAILABLE WATER SOURCE ONLY AND SHALL NOT CONSTRUCTED AS PRESCRIPTION FOR WATERING APPLICATION FOR SPECIFIC TREES, SHRUBS, GROUND COVERS OR SOD. FINAL WATER APPLICATION AS NEEDED FOR PLANTS, TREES, AND SOD SHALL BE RESPONSIBILITY OF THE OWNER.



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IRRIGATION DETAILS & NOTES

DATE: December 10, 2021

DRAWN BY: JM

CHECKED BY: TWB

JOB NUMBER: 2021.182

FILE NAME:  
2021.182.DRI1- VENEZIA TDS\_IRRI

REVISIONS:

1. Irrigation 12-10-2021

2. Town Comments 1-19-2022

Digitally signed

by Todd W

Bonnett

Date:

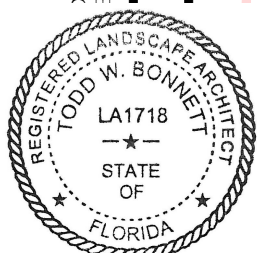
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