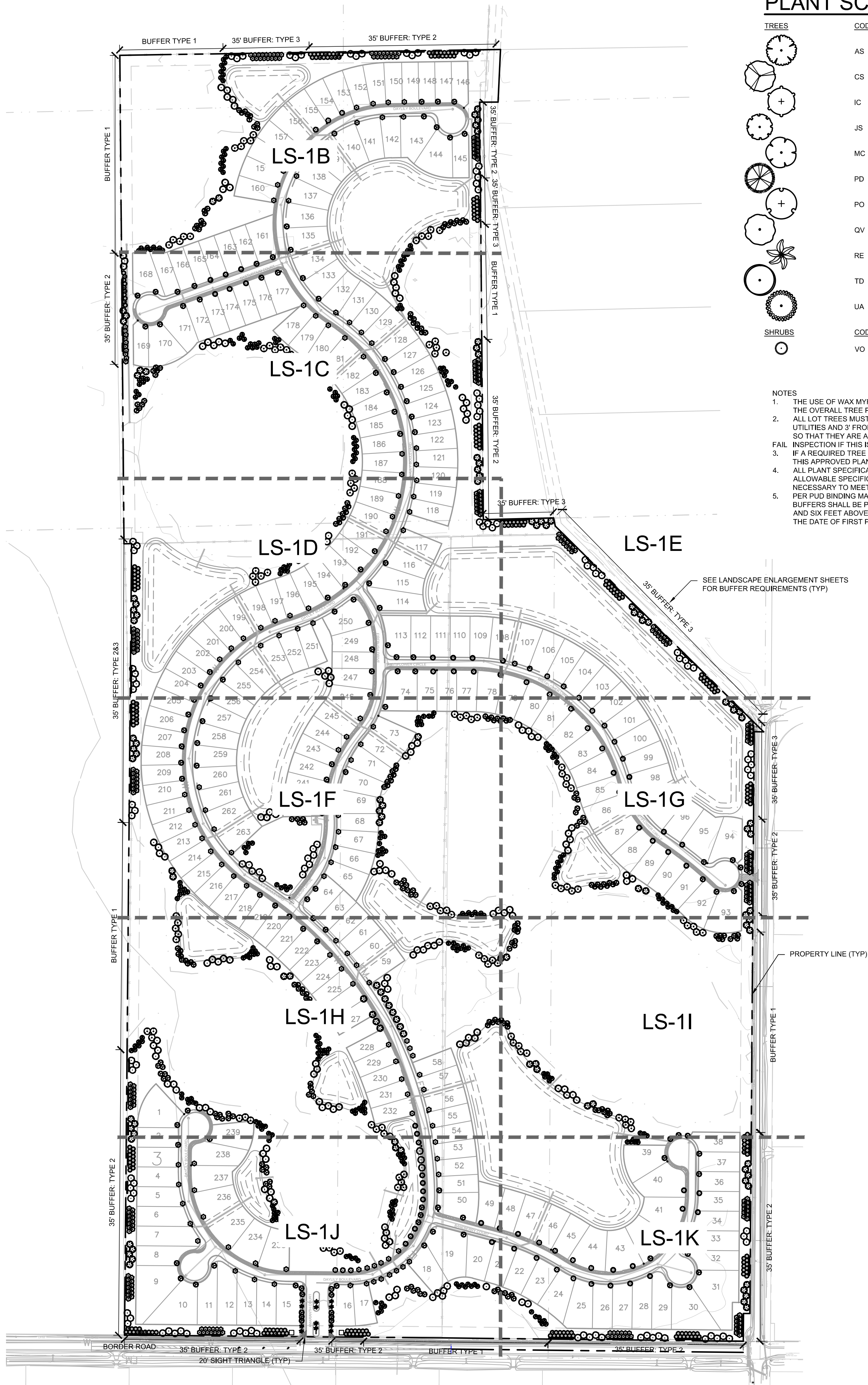


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PLANT SCHEDULE

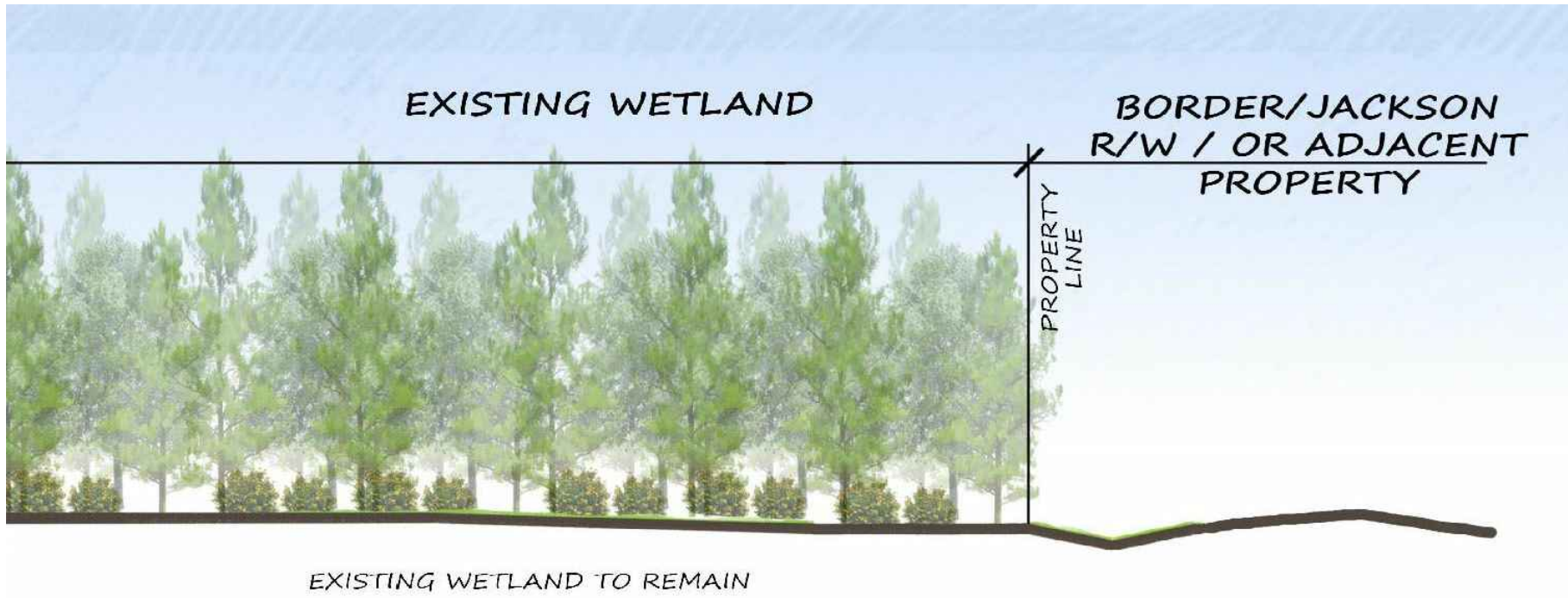
TREES				SHRUBS			
CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT	SPRD
AS	109	ACER RUBRUM 'SUMMER RED'	SUMMER RED RED MAPLE	FG	3" CAL MIN	10' HT MIN	4' MIN
CS	337	CONOCARPUS ERECTUS 'SERICEUS'	SILVER BUTTWOOD	FG	2" CAL OA	6' HT MIN	30" MIN
IC	374	ILEX CASSINE	DAHON HOLLY	FG	2" CAL MIN	6' HT MIN	22" MIN
JS	244	JUNIPERUS SILICICOLA	SOUTHERN RED CEDAR	FG	2" CAL MIN	6' HT MIN	22" MIN
MC	29	MYRICA CERIFERA	WAX MYRTLE	FG	2" CAL OA	6' HT MIN	30" MIN
PD	298	PINUS ELLIOTTI 'DENSE'	SLASH PINE	FG	3" CAL MIN	10' HT MIN	54" MIN
PO	106	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	FG	3" CAL MIN	10' HT MIN	54" MIN
QV	118	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	FG	3" CAL MIN	10' HT MIN	54" MIN
RE	17	ROYSTONIA ELATA	FLORIDA ROYAL PALM	FG	HEAVY	16' GW MATCHED	
TD	136	TAXODIUM DISTICHUM	BALD CYPRESS	FG	3" CAL MIN	10' HT MIN	28" MIN
UA	51	ULMUS ALATA	WINGED ELM	FG	3" CAL MIN	10' HT MIN	54" MIN
CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE	
VO	758	VIBURNUM OBOVATUM	WALTER'S VIBURNUM	3 GAL	36" OC	2' HT MIN.	

- NOTES
1. THE USE OF WAX MYRTLE AND CABBAGE PALM SPECIES MAY ONLY ACCOUNT FOR A TOTAL OF 25% OF THE OVERALL TREE PLANTING REQUIRED.
  2. ALL LOT TREES MUST BE LOCATED A MINIMUM OF 6' FROM ALL ABOVE OR BELOW GROUND UTILITIES AND 3' FROM ALL PROPERTY AND LOT LINES. LOT TREES MUST BE APPROPRIATELY SIZED SO THAT THEY ARE ABLE TO MATURE FREELY PER CITY OF VENICE CODE REQUIREMENTS. LOTS WILL FAIL INSPECTION IF THIS IS NOT FOLLOWED.
  3. IF A REQUIRED TREE IS REMOVED, IT SHALL BE REPLACED WITH A TREE SPECIES SELECTED FROM THIS APPROVED PLANT LIST.
  4. ALL PLANT SPECIFICATIONS IN THE PLANT SCHEDULE SHALL BE CONSIDERED THE MINIMUM ALLOWABLE SPECIFICATIONS. CONTRACTOR SHALL PROCURE PLANT MATERIALS AND UPSIZE AS NECESSARY TO MEET THE MOST STRINGENT SPECIFICATION.
  5. PER PUD BINDING MASTER PLAN, ALL BUFFERS ARE DESIGNED TO BE 80 PERCENT OPAQUE. BUFFERS SHALL BE PLANTED AND MAINTAINED TO BE 80 PERCENT OR MORE OPAQUE BETWEEN TWO AND SIX FEET ABOVE AVERAGE GROUND LEVEL WHEN VIEWED HORIZONTALLY WITH 12 MONTHS OF THE DATE OF FIRST PLANTING.

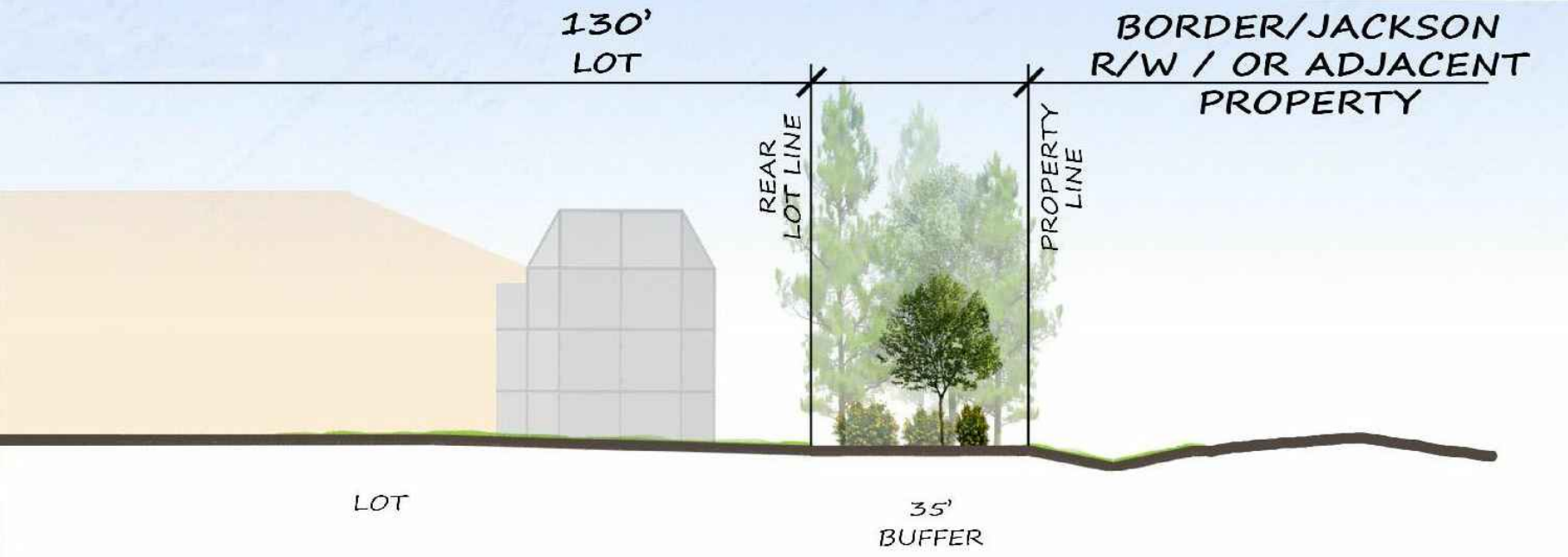
LANDSCAPE CALCULATIONS

	REQUIRED	PROVIDED
<b>BUFFER TYPE 1</b> ADJACENT TO EXISTING WETLAND - EXISTING VEGETATION TO BE PRESERVED/NO ADDITIONAL PLANTING REQUIRED PUD MASTER PLAN ORD. NO. 2015-15	SEE PLAN	SEE PLAN
<b>BUFFER TYPE 2 &amp; 3</b> ADJACENT TO LOTS AND RETENTION PONDS 35' WIDTH + 6' HT OPAQUE FENCE OR WALL (TBD) + 1 SHRUB PER 10 LF 1 CANOPY TREE OR EVERGREEN TREE / 25 LF NOTE: EXISTING NON-INVASIVE UNDERSTORY VEGETATION TO REMAIN. PUD MASTER PLAN ORD. NO. 2015-15	SEE PLAN CALLOUTS	SEE PLAN CALLOUTS
<b>LOT TREES WITHIN OR ADJACENT TO ROW</b> 1 TREE PER LOT WITHIN OR ADJACENT TO ROW PUD MASTER PLAN ORD. NO. 2015-15	SEE PLAN	SEE PLAN
<b>TREE REPLACEMENT</b> 1 TREE / 2000 SF OF PARCEL	6,519,114 SF (TOTAL SITE) - 1,963,208 SF (WETLANDS) = 4,555,906 SF / 2000 SF = 2,278 TREES	478 LOT TREES (BUILDER TO PROVIDE 2 PER LOT ON 239 LOTS) +1,800 TREES ACROSS SITE (INCLUDING BUFFERS AND STREET TREES) 2,278 TREES

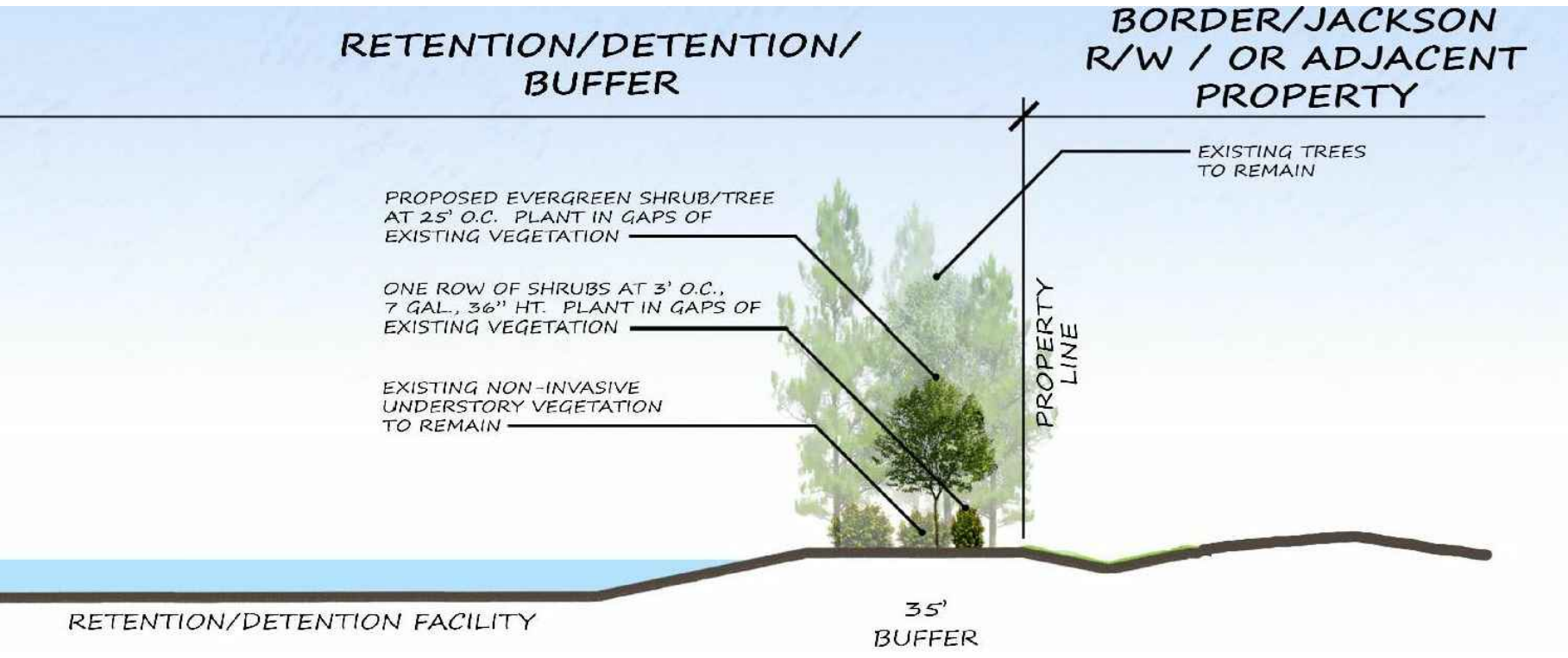
TYPICAL BUFFERS



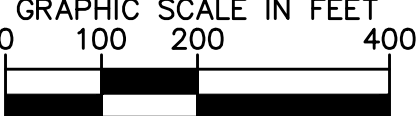
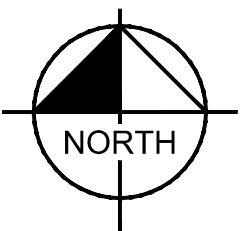
1 TYPE 1 - BUFFER ADJACENT TO EXISTING WETLAND NTS 048-141-53



2 TYPE 2 - BUFFER ADJACENT TO LOT NTS 048-141-54



3 TYPE 3 - BUFFER ADJACENT TO RETENTION/DETENTION NTS 048-141-55



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ARCHITECT  
D. CHIAFFAGLIONE  
LA6667207  
STATE OF FLORIDA  
REGISTERED PROFESSIONAL  
CHRIS O'BRIEN  
LA6667207  
STATE OF FLORIDA

KHA PROJECT 048119141  
DATE NOV 2017  
SCALE AS SHOWN  
DESIGNED BY PMH  
DRAWN BY JLL  
CHECKED BY TMS  
DATE 12/17/2017

OVERALL LANDSCAPE PLAN

WOODS AT VENICE  
PREPARED FOR  
BORDER ROAD INVESTMENTS, LLC  
CITY OF VENICE FLORIDA

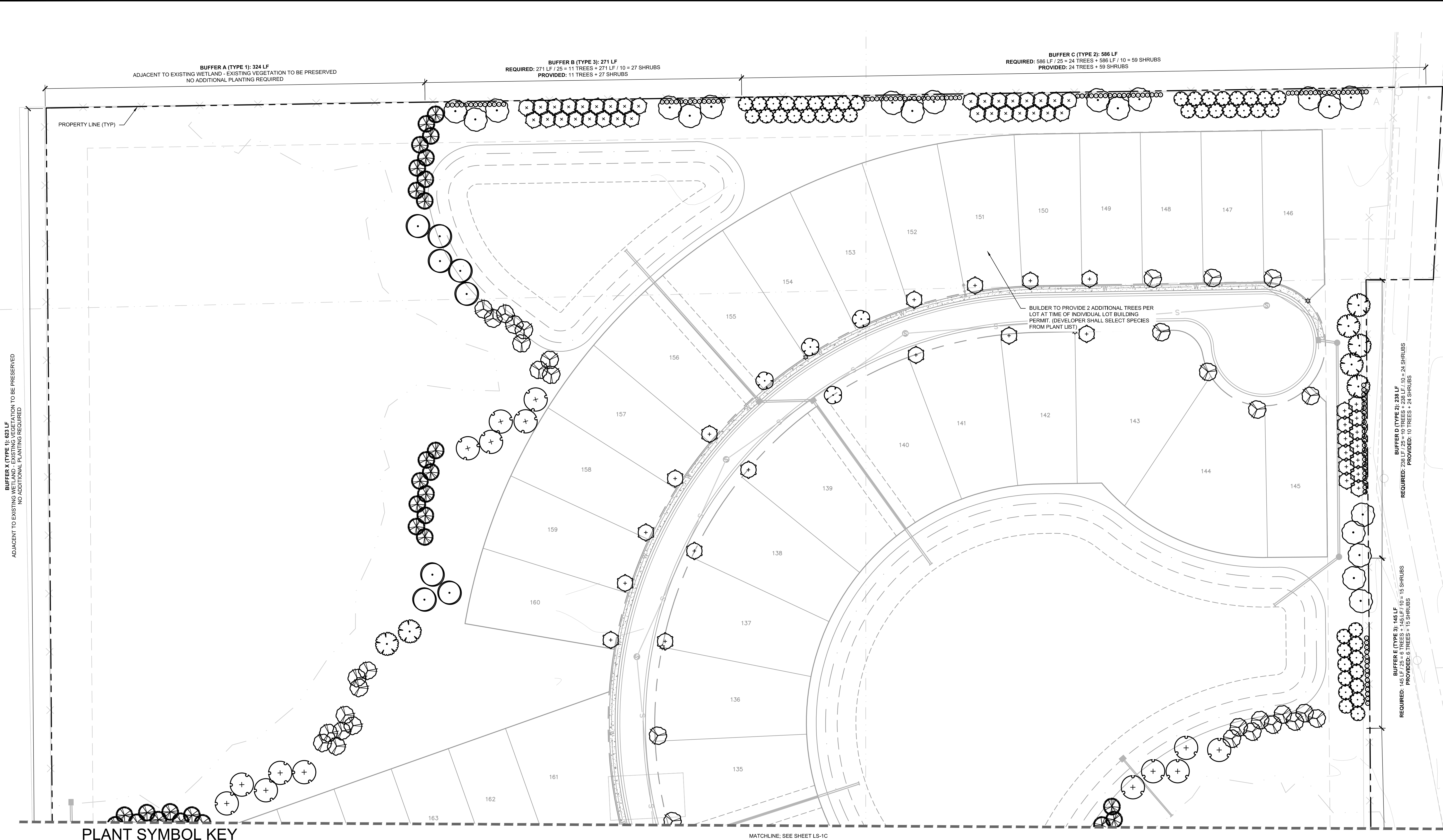
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REVISIONS  
No. DATE BY



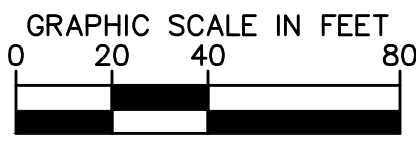
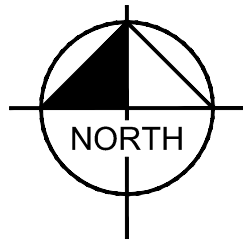
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PLANT SYMBOL KEY

TREES	CODE	COMMON NAME	SHRUBS	CODE	COMMON NAME
	AS	SUMMER RED RED MAPLE		VO	WALTER'S VIBURNUM
	CS	SILVER BUTTONWOOD			
	IC	DAHOON HOLLY			
	JS	SOUTHERN RED CEDAR			
	MC	WAX MYRTLE			
	PD	SLASH PINE			
	PO	AMERICAN SYCAMORE			
	QV	SOUTHERN LIVE OAK			
	RE	FLORIDA ROYAL PALM			
	TD	BALD CYPRESS			
	UA	WINGED ELM			



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PREPARED FOR  
**BORDER ROAD INVESTMENTS, LLC**  
CITY OF VENICE FLORIDA

**LANDSCAPE PLAN**

**LS-1B**

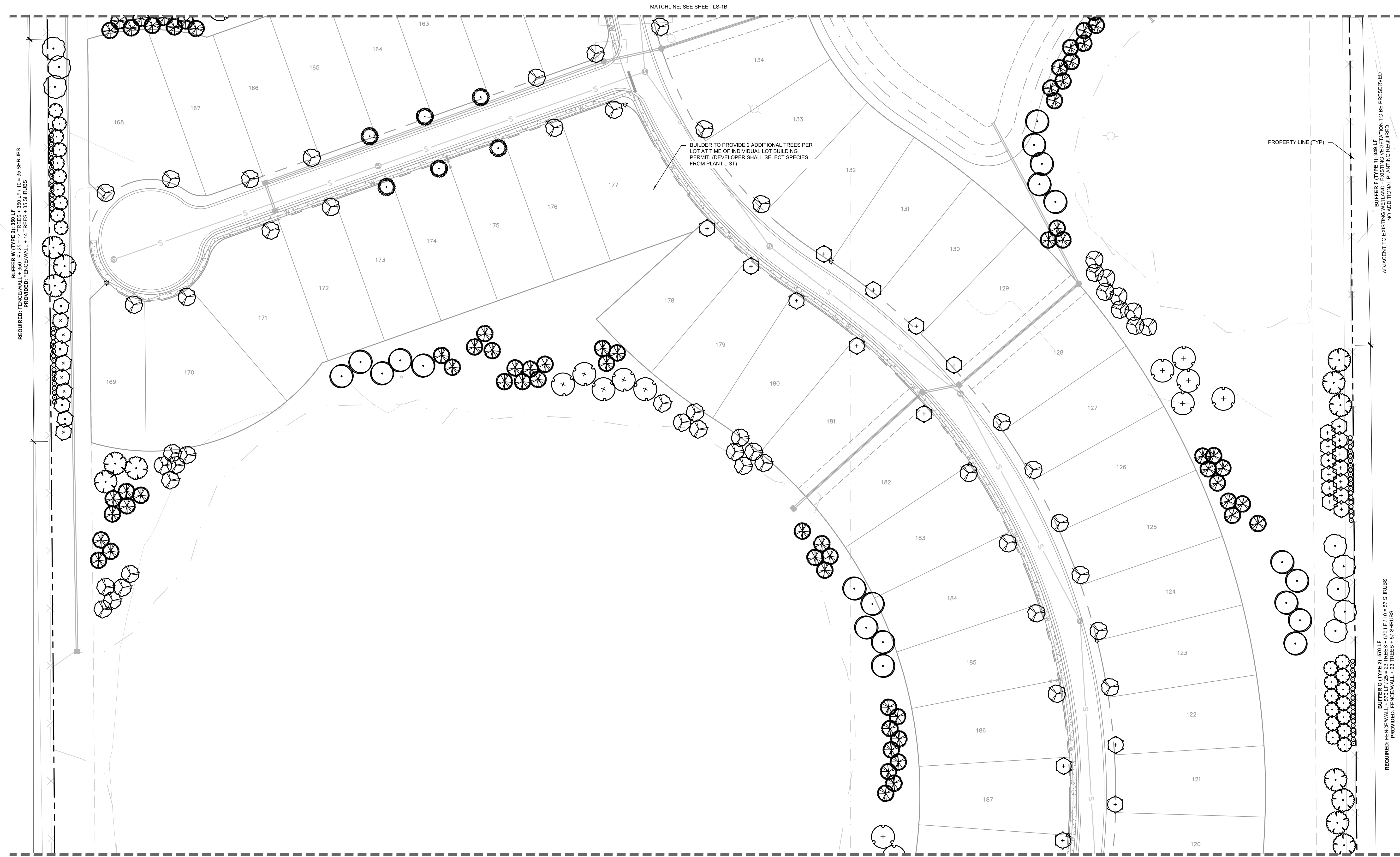
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**ARCHITECT**  
REGISTERED  
CHRISTOPHER D. CHIAFFALONE  
LA6667207  
STATE OF FLORIDA














KHA PROJECT 048119141  
DATE NOV 2017  
SCALE AS SHOWN  
DESIGNED BY PMH  
DRAWN BY JLL  
CHECKED BY TMS  
DATE 12/17/2017

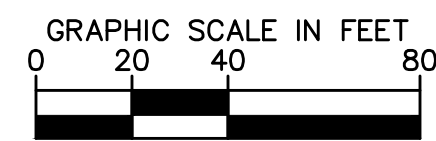
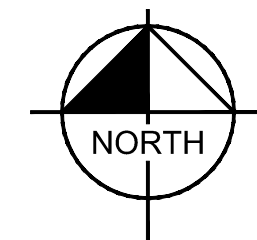
REVISIONS	No.	DATE	BY





## PLANT SYMBOL KEY

<u>TREES</u>	<u>CODE</u>	<u>COMMON NAME</u>	<u>TREES</u>	<u>CODE</u>	<u>COMMON NAME</u>
	AS	SUMMER RED RED MAPLE		RE	FLORIDA ROYAL PALM
	CS	SILVER BUTTONWOOD		TD	BALD CYPRESS
	IC	DAHOON HOLLY		UA	WINGED ELM
	JS	SOUTHERN RED CEDAR			
	MC	WAX MYRTLE	<u>SHRUBS</u>	<u>CODE</u>	<u>COMMON NAME</u>
	PD	SLASH PINE		VO	WALTER'S VIBURNUM
	PO	AMERICAN SYCAMORE			
	QV	SOUTHERN LIVE OAK			





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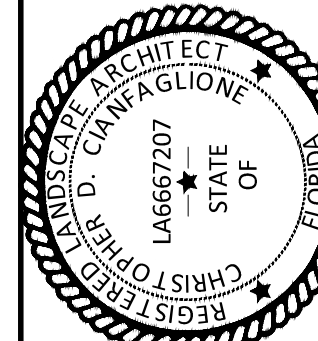
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**INVESTMENTS, LLC**

# LANDSCAPE PLAN

KHA PROJECT 048119141	DATE NOV 2017	SCALE AS SHOWN	DESIGNED BY PMH	DRAWN BY JLL	CHECKED BY TMS
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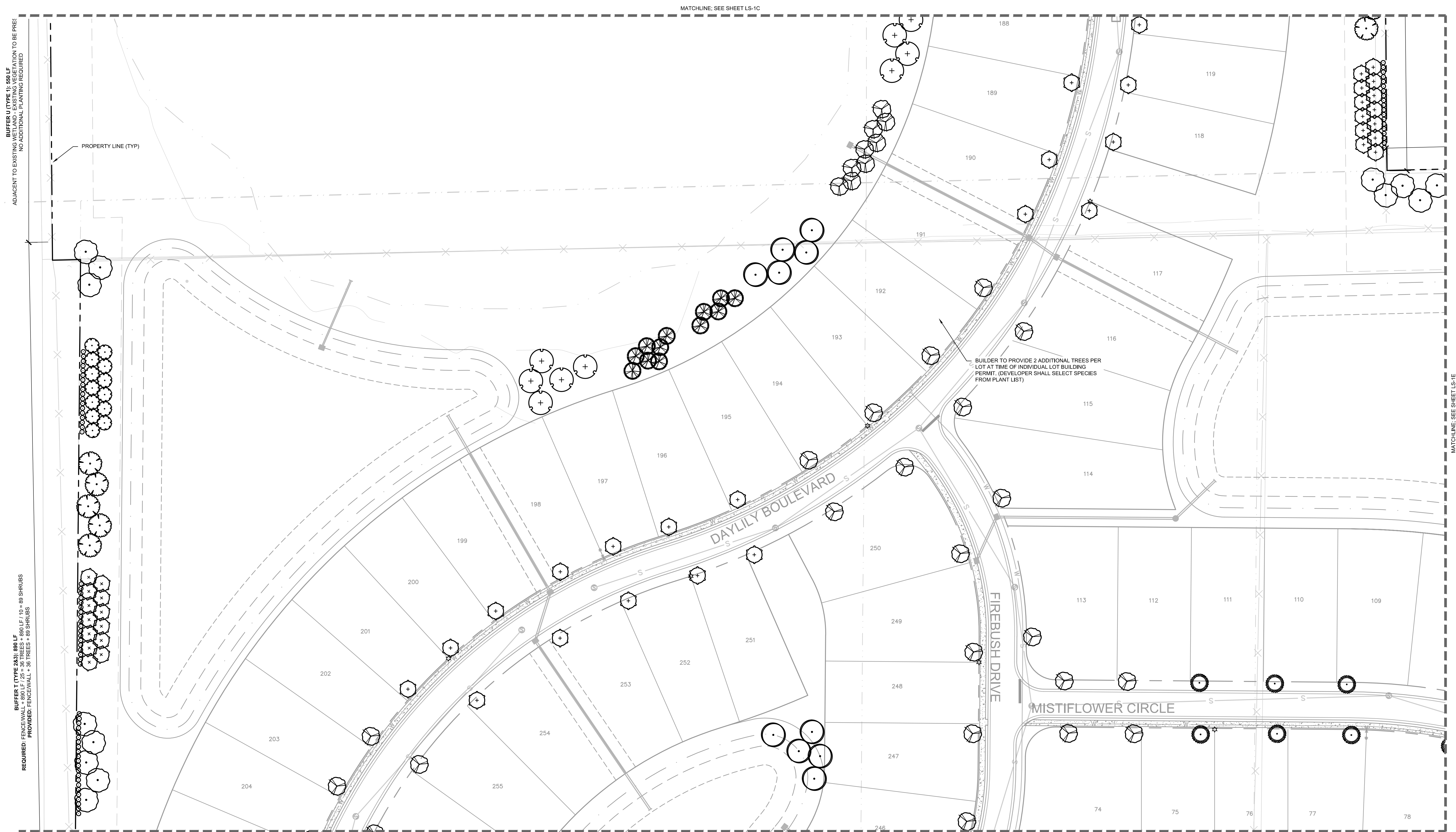


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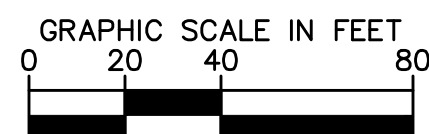
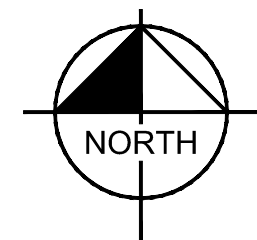
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## PLANT SYMBOL KEY

<u>TREES</u>	<u>CODE</u>	<u>COMMON NAME</u>	<u>TREES</u>	<u>CODE</u>	<u>COMMON NAME</u>
	AS	SUMMER RED RED MAPLE		UA	WINGED ELM
	CS	SILVER BUTTONWOOD	<u>SHRUBS</u>	<u>CODE</u>	<u>COMMON NAME</u>
	IC	DAHOOH HOLLY		VO	WALTER'S VIBURNUM
	JS	SOUTHERN RED CEDAR			
	MC	WAX MYRTLE			
	PD	SLASH PINE			
	PO	AMERICAN SYCAMORE			
	QV	SOUTHERN LIVE OAK			
	RE	FLORIDA ROYAL PALM			
	TD	BALD CYPRESS			



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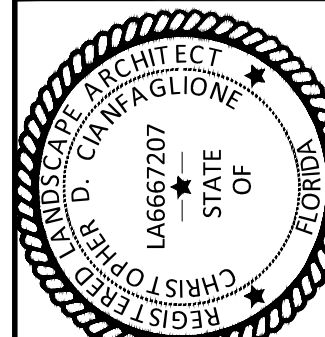


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**BORDER ROAD**  
**INVESTMENTS, LLC**

CITY OF VENICE  
FLORIDA

## LANDSCAPE PLAN

KHA PROJECT 048119141	DATE NOV 2017	SCALE AS SHOWN	DESIGNED BY PMH	DRAWN BY JLL	CHECKED BY TMS
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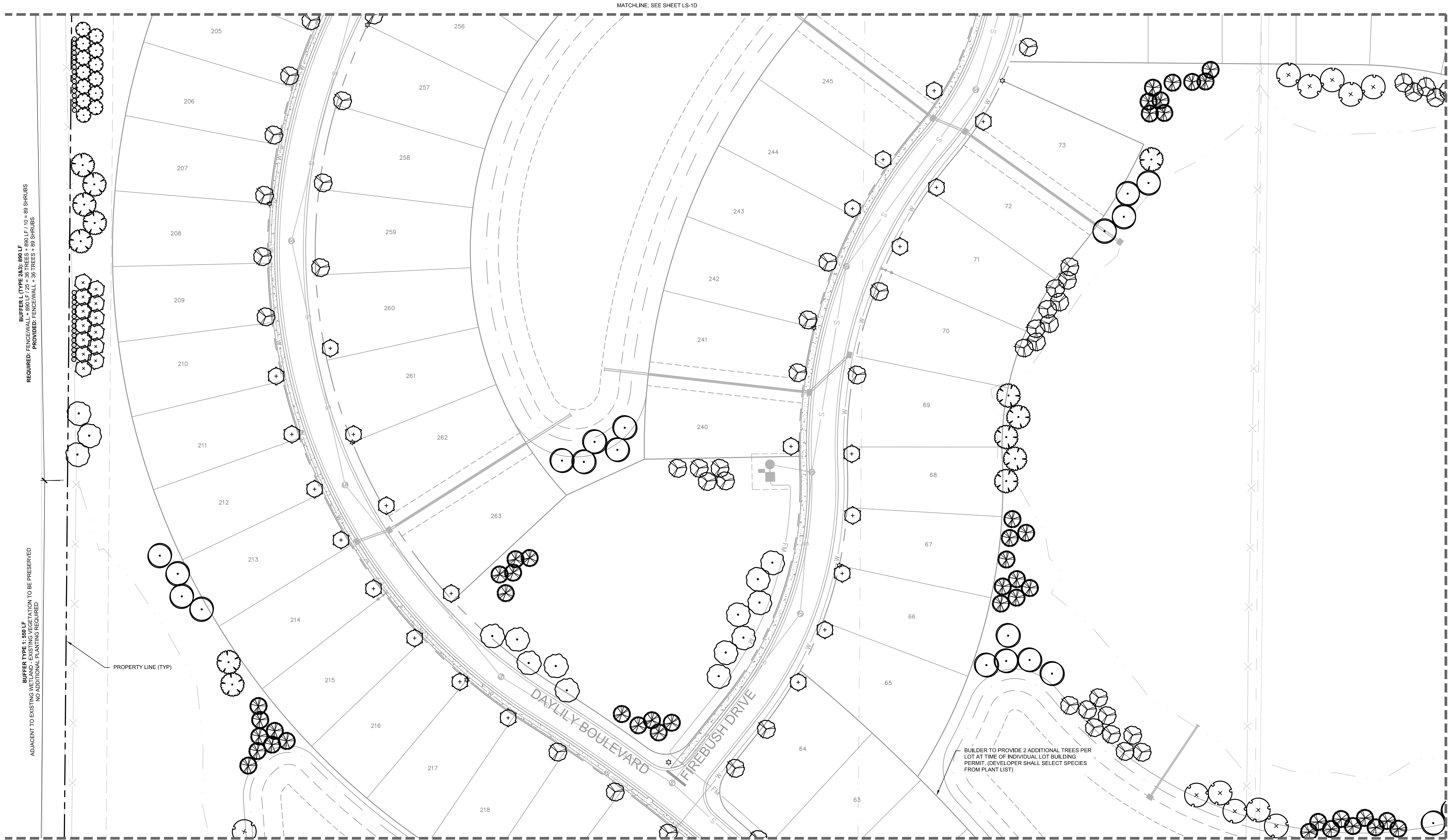






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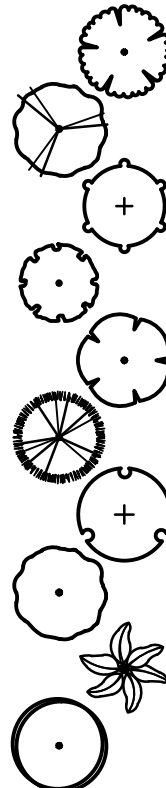


REQUIRED: FENCE WALL 10' HIGH  
PROVIDED: FENCE WALL 38' TREES 48' SHRUBS

ADJACENT TO EXISTING WETLAND - EXISTING VEGETATION TO BE PRESERVED  
NO ADDITIONAL PLANTING REQUIRED

PLANT SYMBOL KEY

TREES

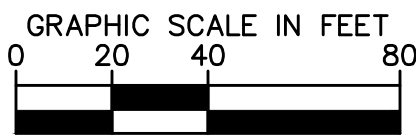
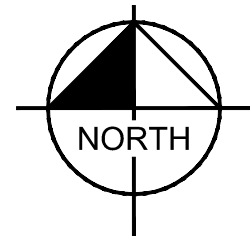


CODE	COMMON NAME
AS	SUMMER RED RED MAPLE
CS	SILVER BUTTONWOOD
IC	DAHOON HOLLY
JS	SOUTHERN RED CEDAR
MC	WAX MYRTLE
PD	SLASH PINE
PO	AMERICAN SYCAMORE
QV	SOUTHERN LIVE OAK
RE	FLORIDA ROYAL PALM
TD	BALD CYPRESS

SHRUBS



CODE	COMMON NAME
UA	WINGED ELM
VO	WALTER'S VIBURNUM



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INVESTMENTS, LLC

CITY OF VENICE FLORIDA

LANDSCAPE PLAN

KHA PROJECT 048119141	DATE NOV 2017
SCALE AS SHOWN	DESIGNED BY PMH
DRAWN BY JLL	CHECKED BY TMS
REGISTERED ARCHITECT LA6667207 STATE OF FLORIDA	DATE: 12/17/2017

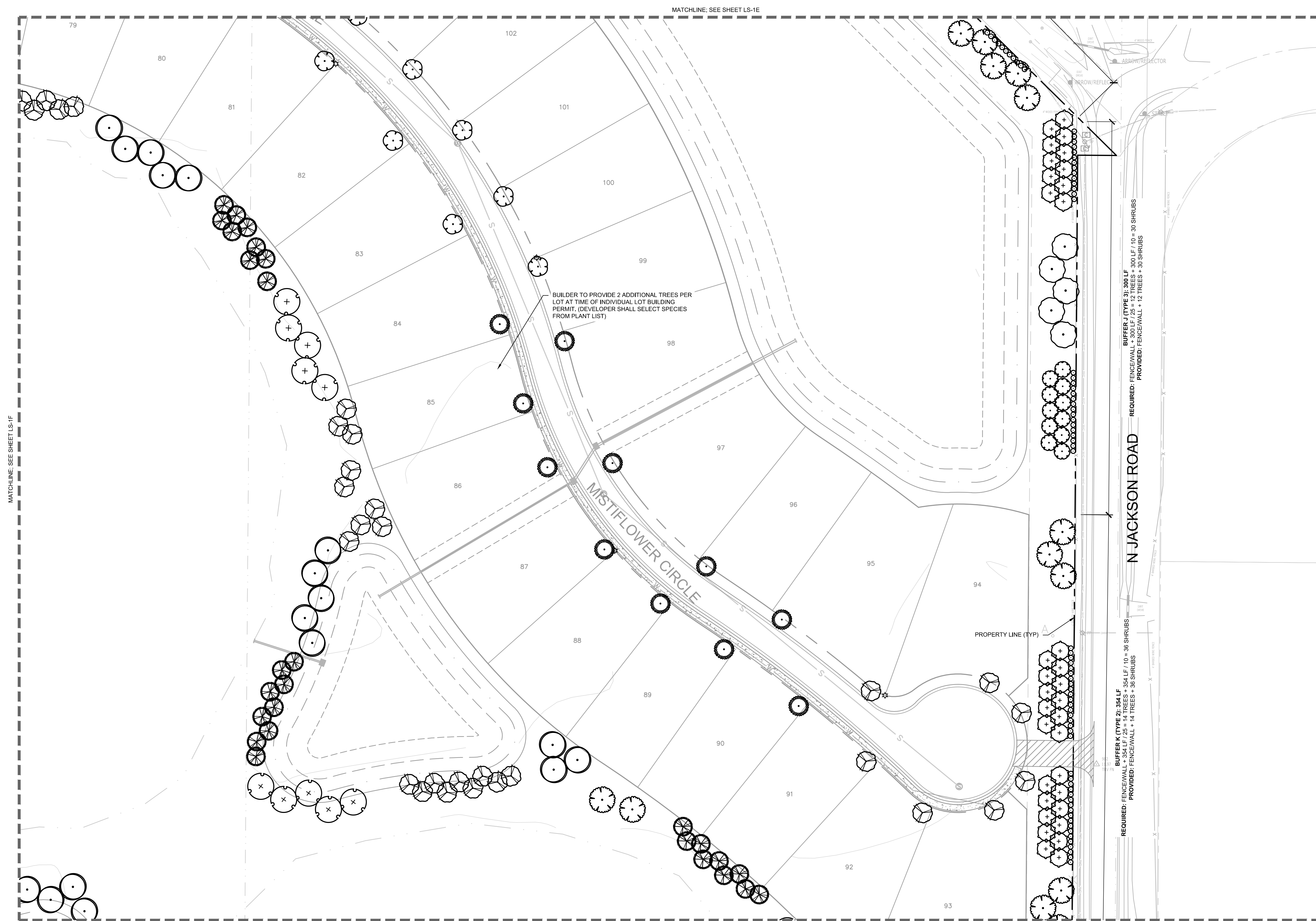


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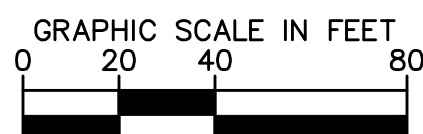
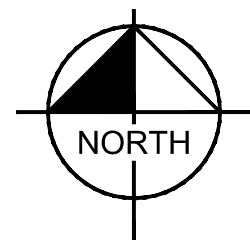
REVISIONS	No.	DATE	BY





## PLANT SYMBOL KEY

<u>TREES</u>	<u>CODE</u>	<u>COMMON NAME</u>	<u>TREES</u>	<u>CODE</u>	<u>COMMON NAME</u>
	AS	SUMMER RED RED MAPLE		UA	WINGED ELM
	CS	SILVER BUTTONWOOD		VO	WALTER'S VIBURNUM
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	JS	SOUTHERN RED CEDAR			
	MC	WAX MYRTLE			
	PD	SLASH PINE			
	PO	AMERICAN SYCAMORE			
	QV	SOUTHERN LIVE OAK			
	RE	FLORIDA ROYAL PALM			
	TD	BALD CYPRESS			

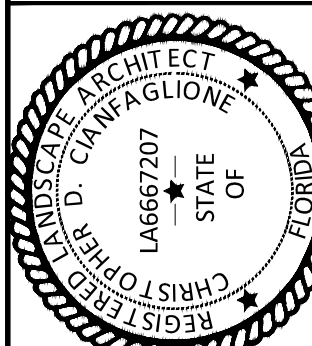


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# LANDSCAPE PLAN

**WOODS AT VENICE**  
PREPARED FOR  
**BORDER ROAD**  
**INVESTMENTS, LLC**

SHEET NUMBER  
**LS-1G**

No.	REVISIONS	DATE	BY
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REQUIRED FENCE WALL \* 893 LF / 25' = 35 TREES \* 893 LF / 10' = 90 SHRUBS  
PROVIDED FENCE WALL \* 35 TREES \* 90 SHRUBS

ADJACENT TO EXISTING LOT 1  
BUFFER S (TYPE 1) 550 LF  
ADJACENT TO EXISTING LOT 1  
NO ADDITIONAL LAND REQUIRED

### PLANT SYMBOL KEY

#### TREES

CODE	COMMON NAME
AS	SUMMER RED RED MAPLE
CS	SILVER BUTTWOOD
IC	DAHOON HOLLY
JS	SOUTHERN RED CEDAR
MC	WAX MYRTLE
PD	SLASH PINE
PO	AMERICAN SYCAMORE
QV	SOUTHERN LIVE OAK
RE	FLORIDA ROYAL PALM
TD	BALD CYPRESS

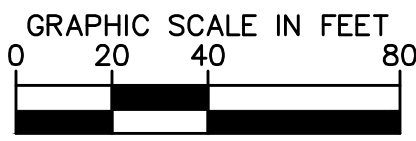
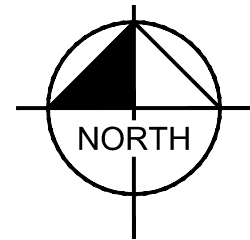
#### TREES



#### SHRUBS



CODE	COMMON NAME
UA	WINGED ELM
VO	WALTER'S VIBURNUM



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INVESTMENTS, LLC

CITY OF VENICE FLORIDA

## LANDSCAPE PLAN

KHA PROJECT  
048119141

DATE  
NOV 2017

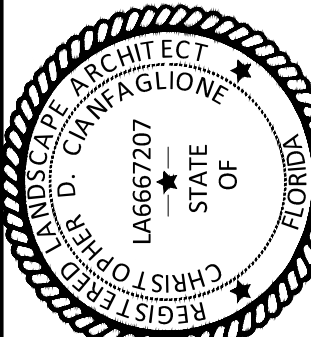
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DESIGNED BY PMH

DRAWN BY JLL

CHECKED BY TMS

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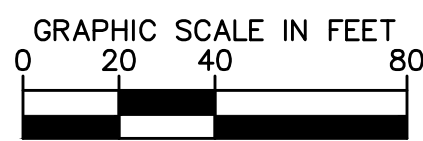
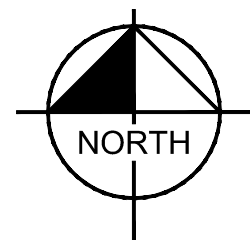
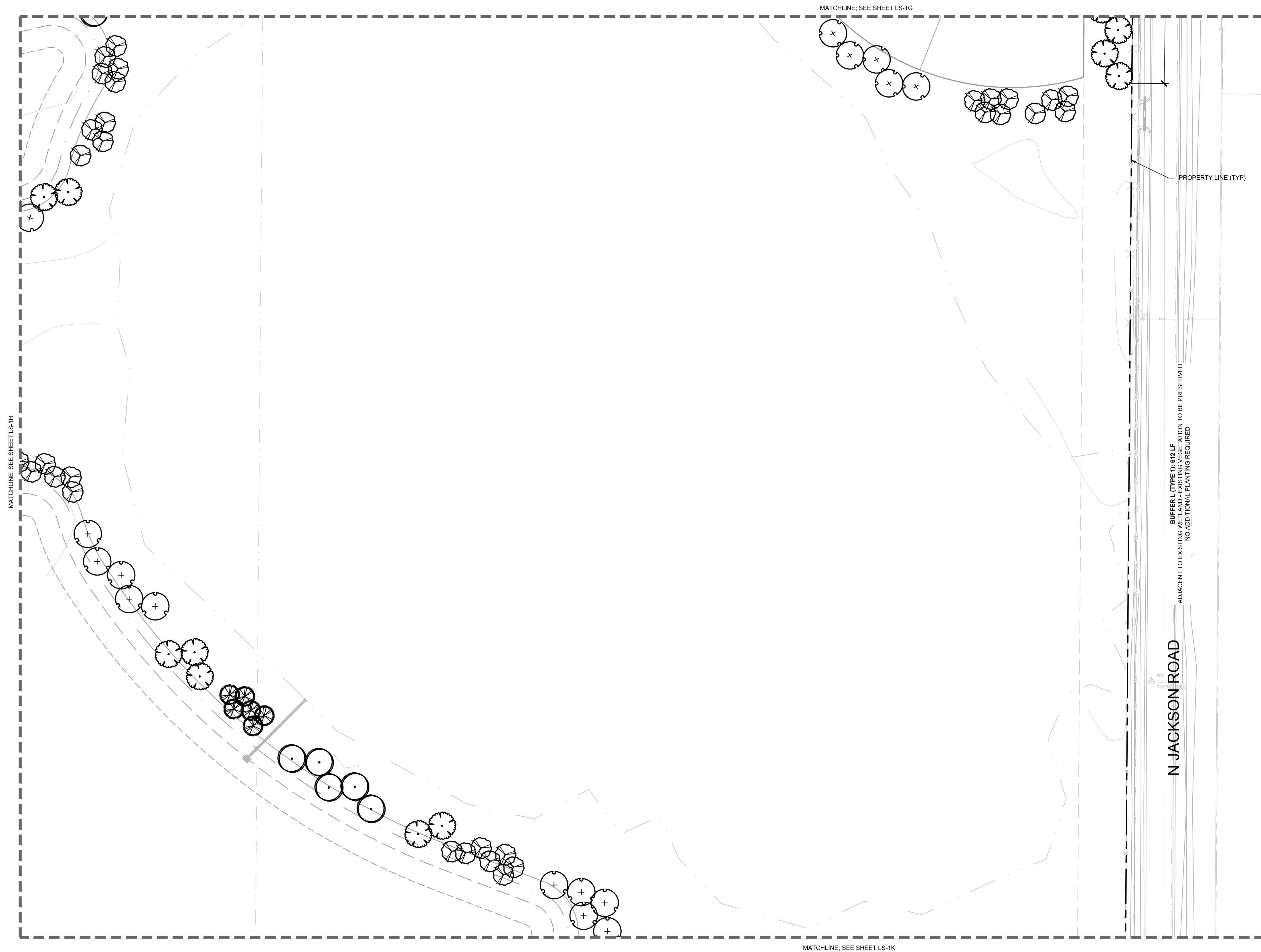


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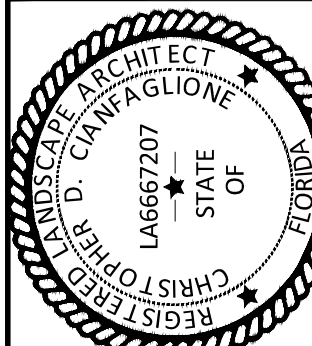
## PLANT SYMBOL KEY

TREES	CODE	COMMON NAME
	AS	SUMMER RED RED MAPLE
	CS	SILVER BUTTONWOOD
	IC	DAHOON HOLLY
	JS	SOUTHERN RED CEDAR
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	PD	SLASH PINE
	PO	AMERICAN SYCAMORE
	QV	SOUTHERN LIVE OAK
	RE	FLORIDA ROYAL PALM
	TD	BALD CYPRESS
	UA	WINGED ELM
SHRUBS	CODE	COMMON NAME
	VO	WALTER'S VIBURNUM

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**BORDER ROAD**  
**INVESTMENTS, LLC**  
CITY OF VENICE  
FLORIDA

LANDSCAPE PLAN

KHA PROJECT 048119141	DATE NOV 2017	SCALE AS SHOWN	DESIGNED BY PMH	DRAWN BY JLL	CHECKED BY TMS
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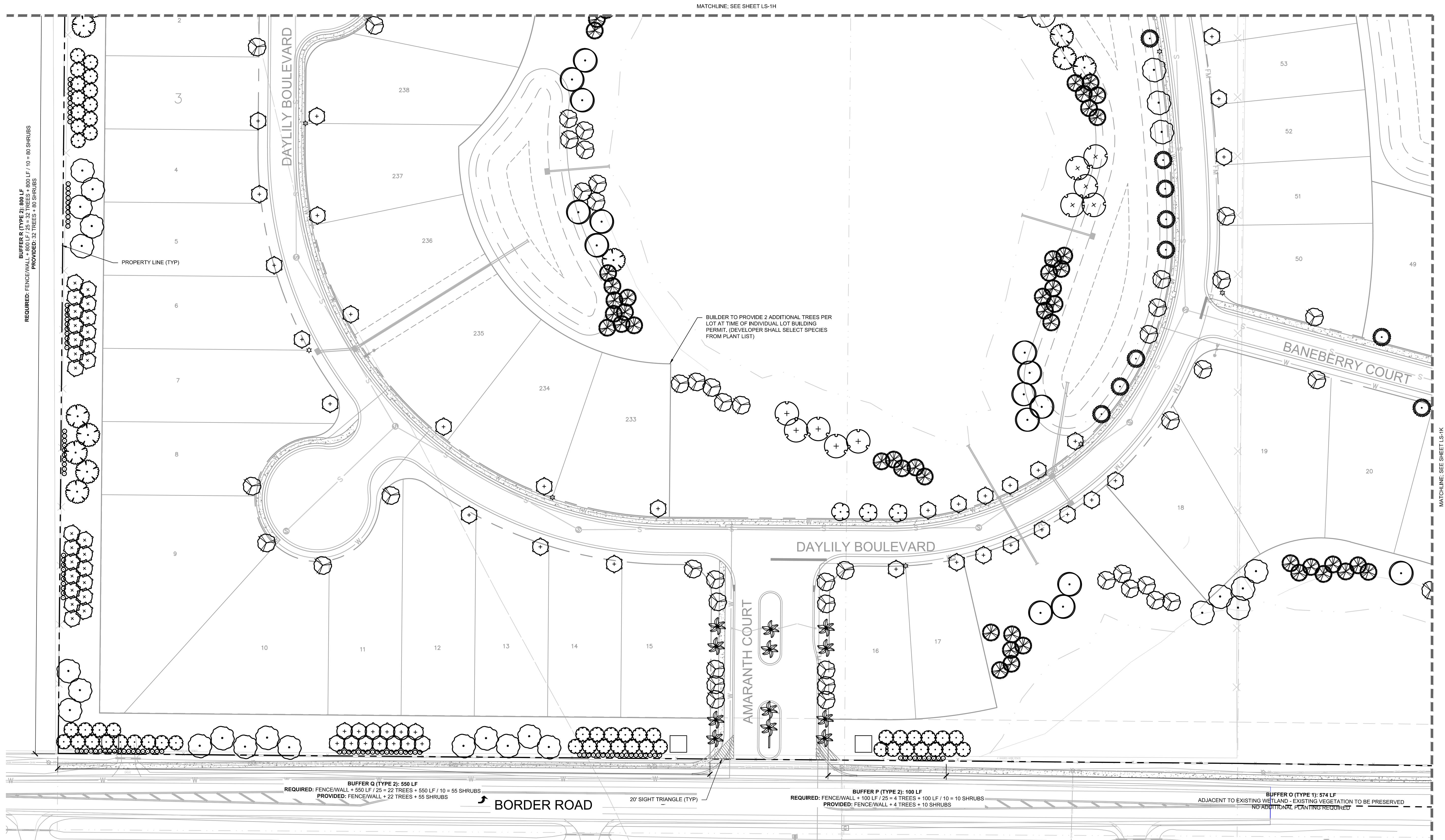
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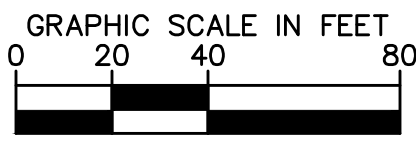
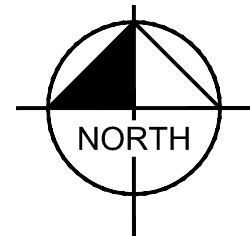
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### PLANT SYMBOL KEY

TREES		TREES	
CODE	COMMON NAME	CODE	COMMON NAME
AS	SUMMER RED RED MAPLE	UA	WINGED ELM
CS	SILVER BUTTWOOD	VO	WALTER'S VIBURNUM
IC	DAHOON HOLLY		
JS	SOUTHERN RED CEDAR		
MC	WAX MYRTLE		
PD	SLASH PINE		
PO	AMERICAN SYCAMORE		
QV	SOUTHERN LIVE OAK		
RE	FLORIDA ROYAL PALM		
TD	BALD CYPRESS		

SHRUBS	
CODE	COMMON NAME
UA	WINGED ELM
VO	WALTER'S VIBURNUM



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WOODS AT VENICE  
PREPARED FOR  
BORDER ROAD  
INVESTMENTS, LLC  
CITY OF VENICE  
FLORIDA

### LANDSCAPE PLAN

KHA PROJECT 048119141  
DATE NOV 2017  
SCALE AS SHOWN  
DESIGNED BY PMH  
DRAWN BY JLL  
CHECKED BY TMS  
DATE 12/17/2017

REGISTERED LANDSCAPE ARCHITECT  
LA6667207  
STATE OF FLORIDA  
CHRISTOPHER D. CHANAGLIONE

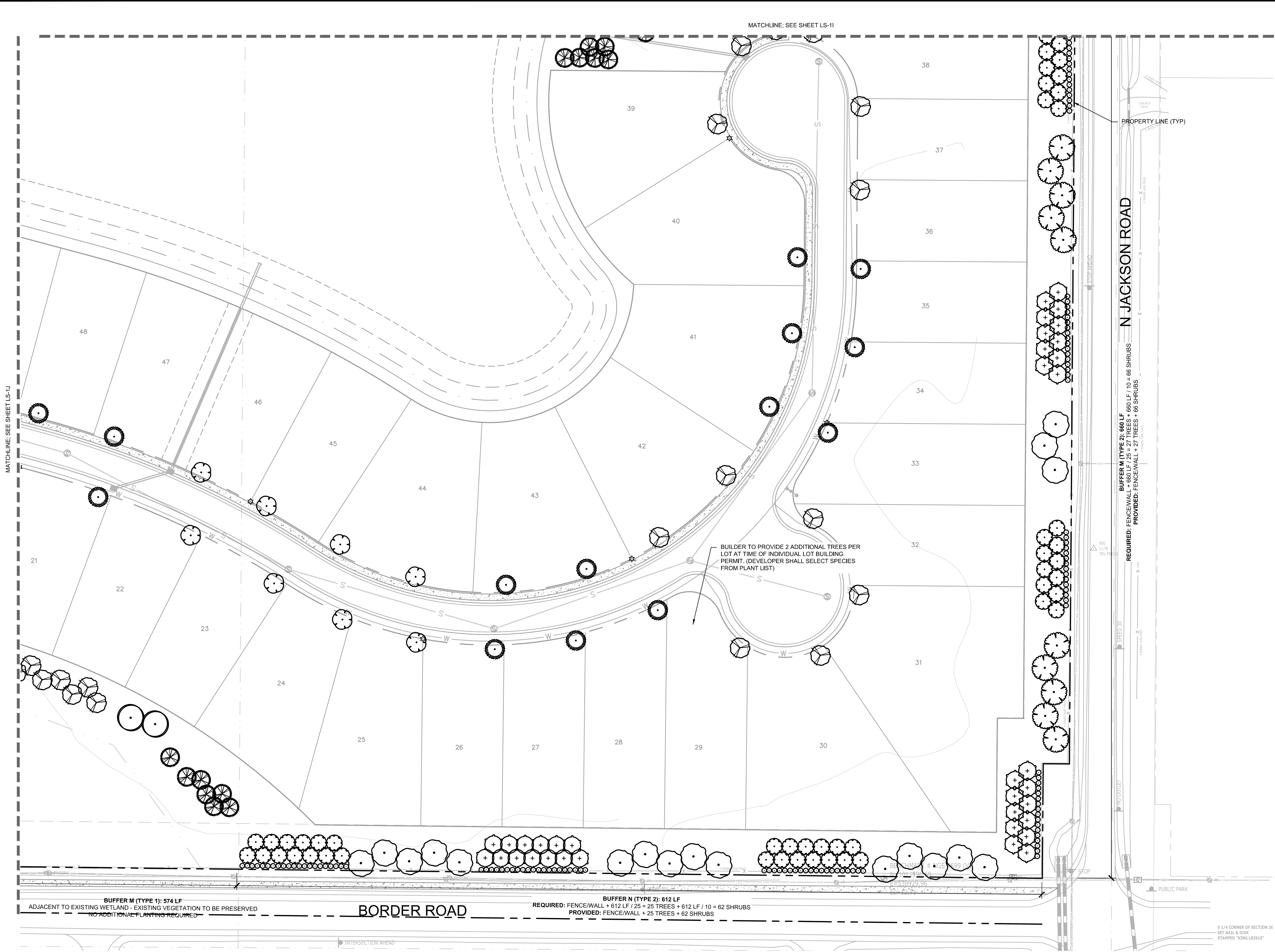
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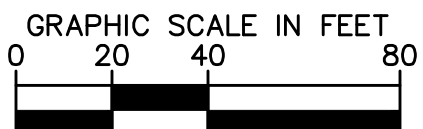
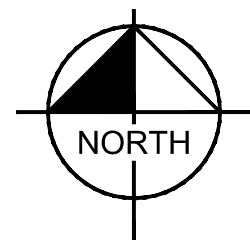


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## PLANT SYMBOL KEY

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	CS	SILVER BUTTONWOOD
	IC	DAHOON HOLLY
	JS	SOUTHERN RED CEDAR
	MC	WAX MYRTLE
	PD	SLASH PINE
	PO	AMERICAN SYCAMORE
	QV	SOUTHERN LIVE OAK
	RE	FLORIDA ROYAL PALM
	TD	BALD CYPRESS
	UA	WINGED ELM
	VO	WALTER'S VIBURNUM
SHRUBS	CODE	COMMON NAME



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SHEET NUMBER  
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CITY OF VENICE FLORIDA



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## LANDSCAPE PLAN

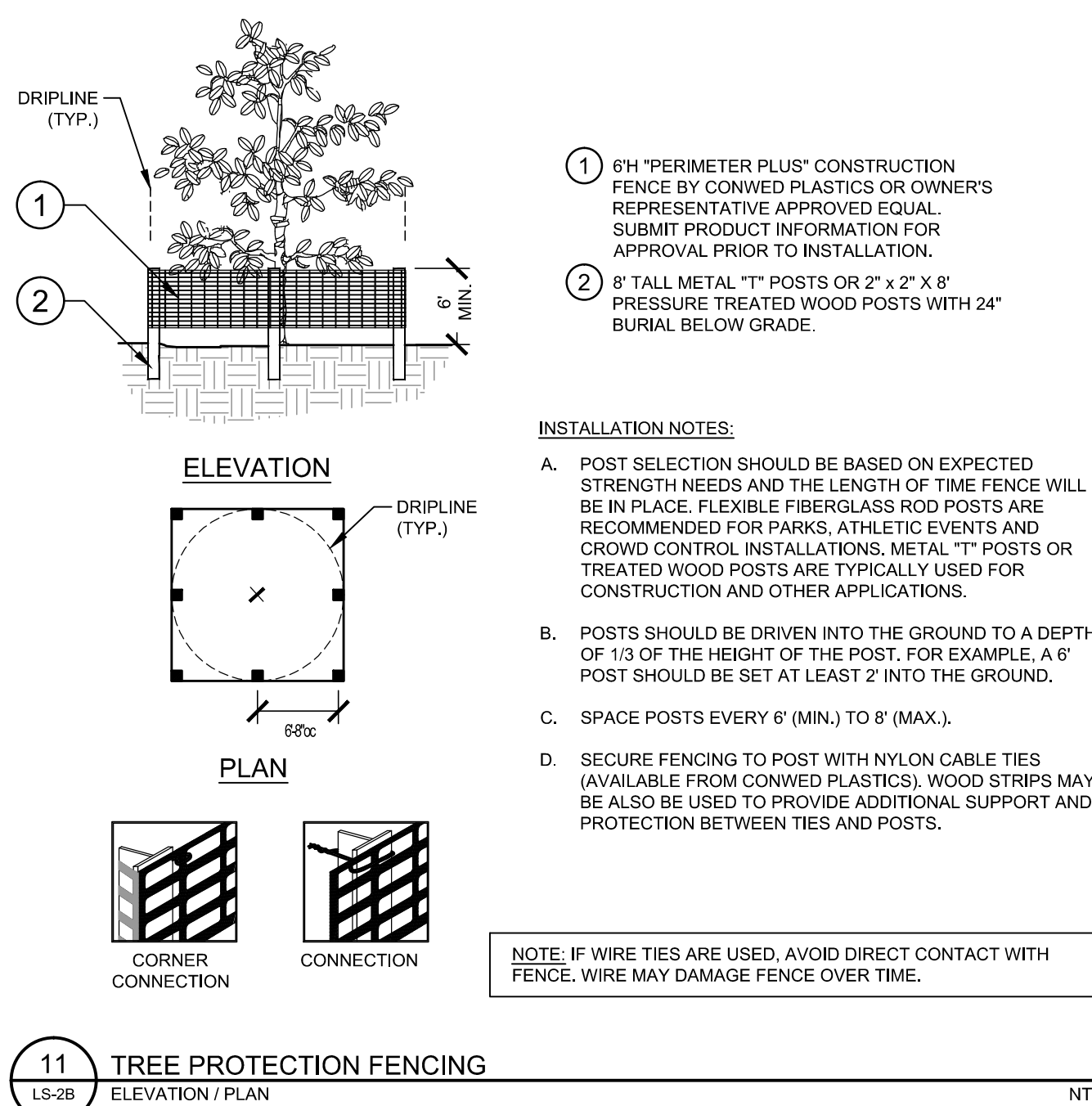
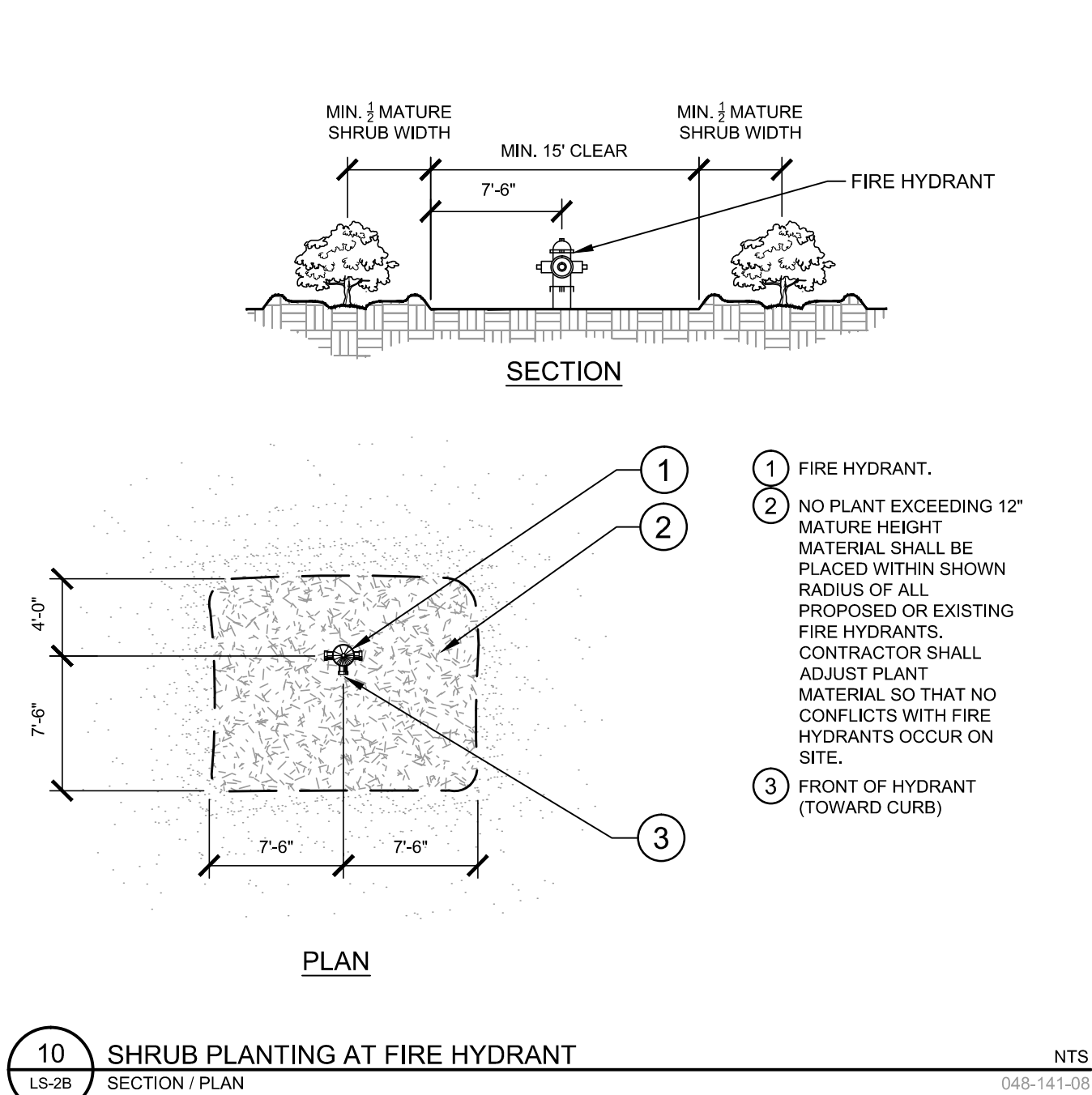
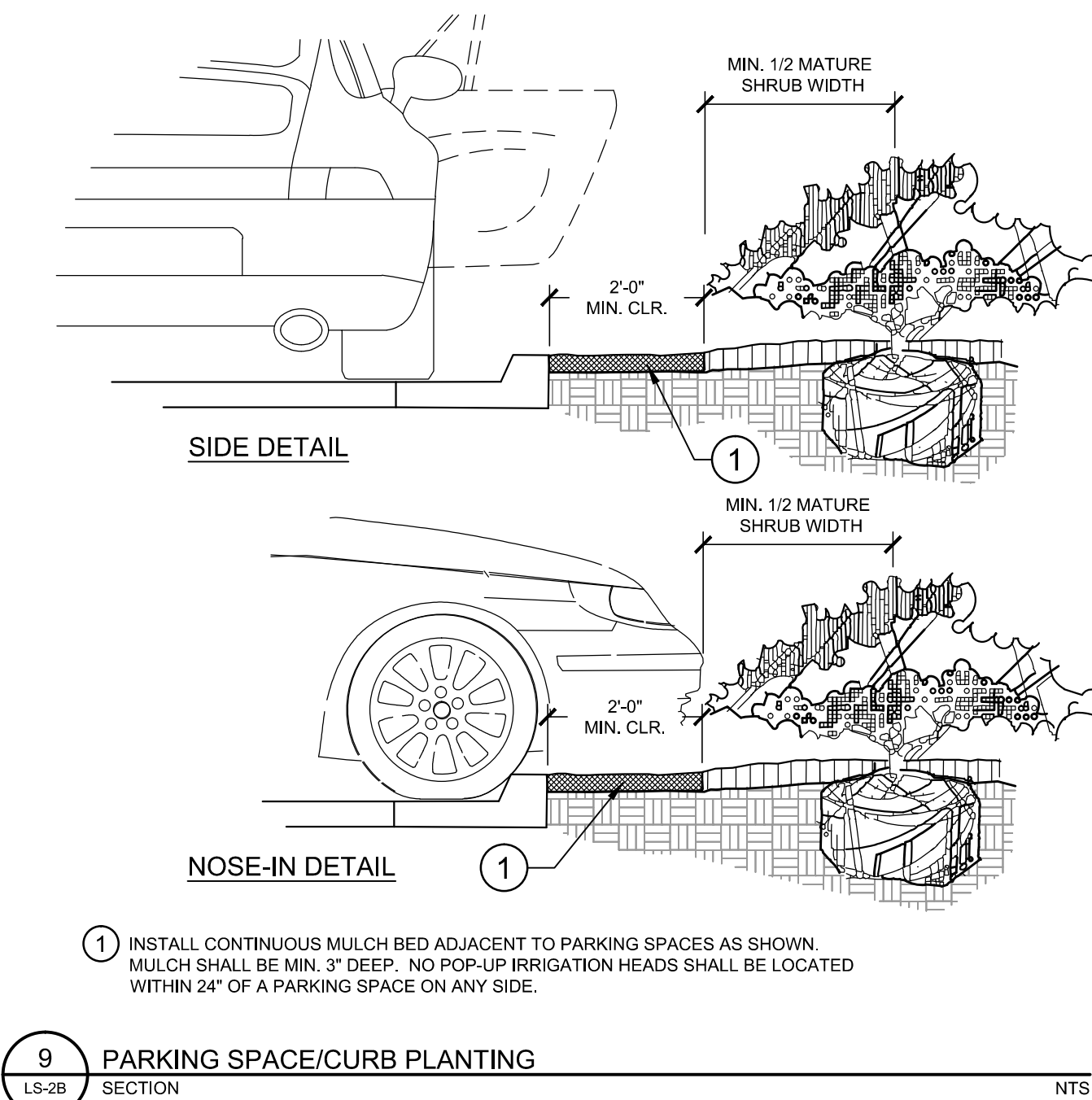
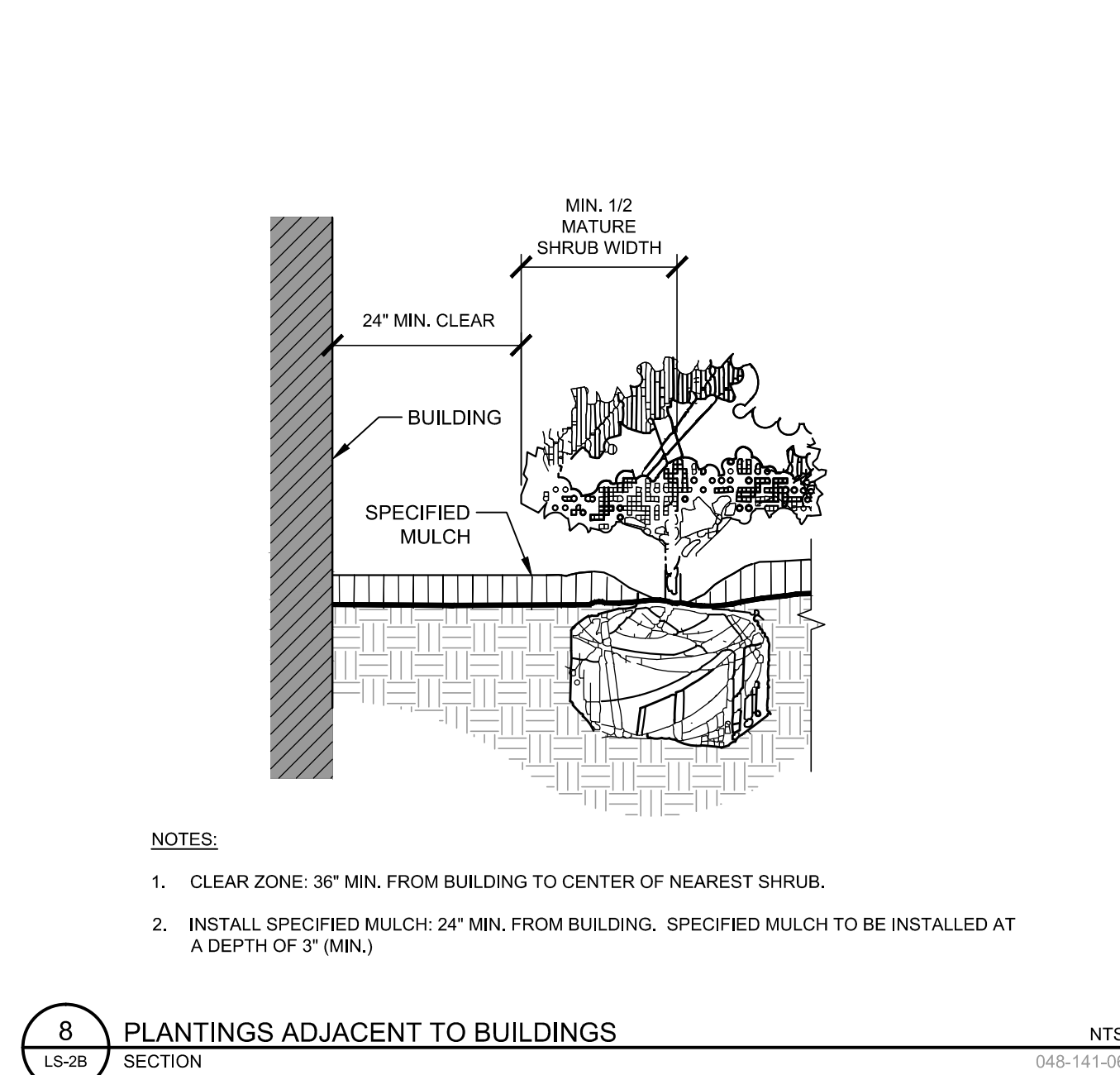
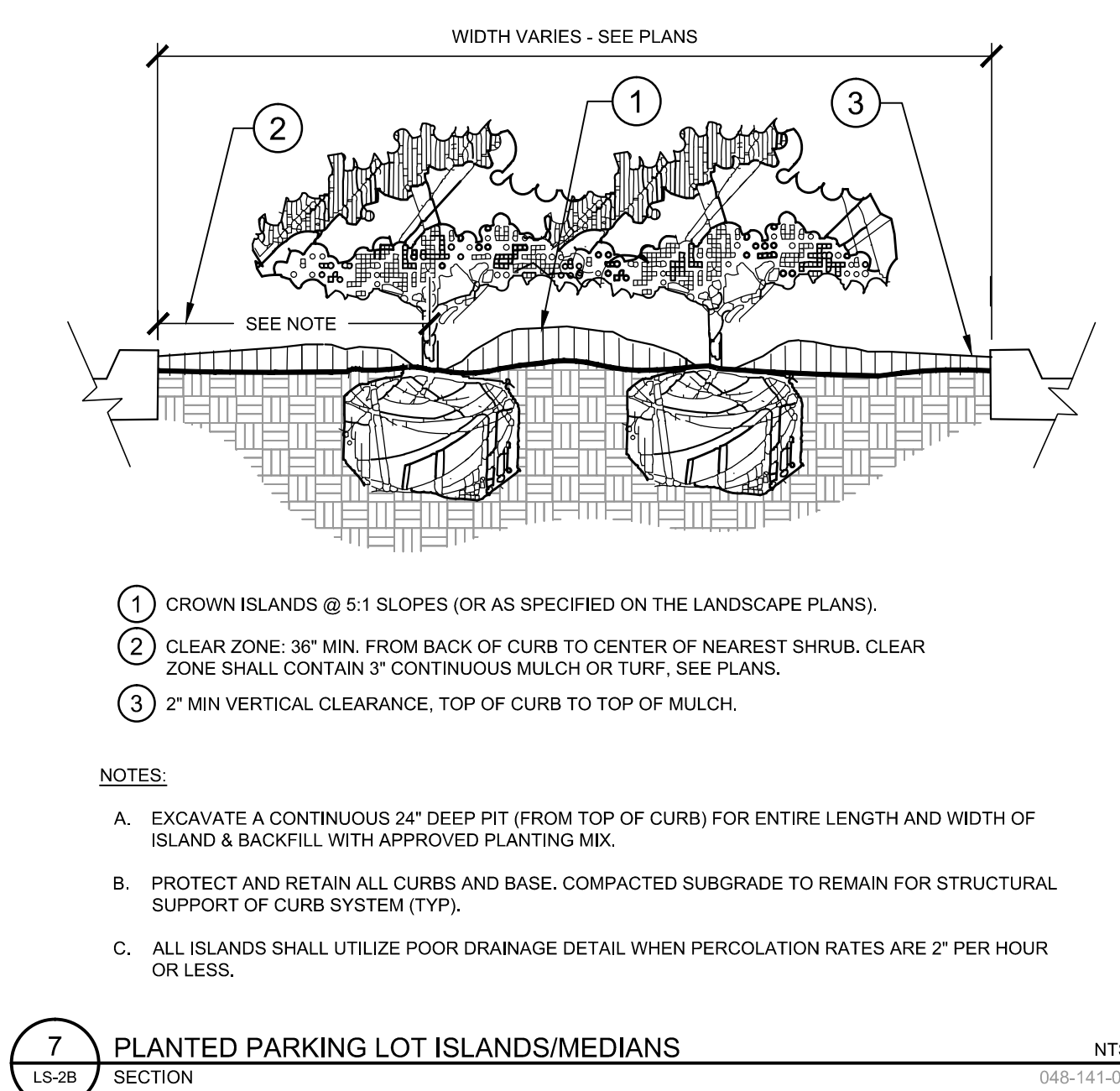
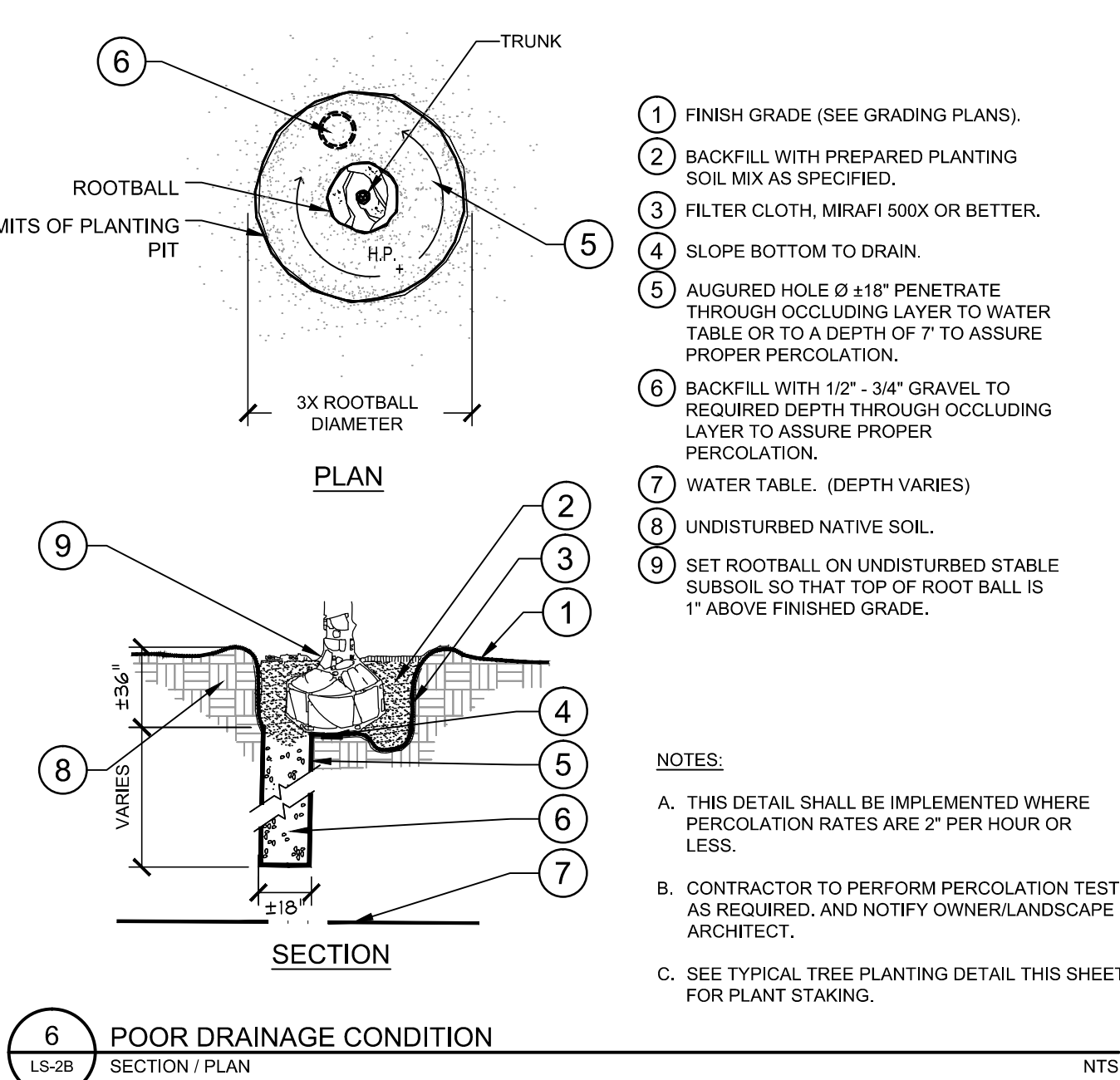
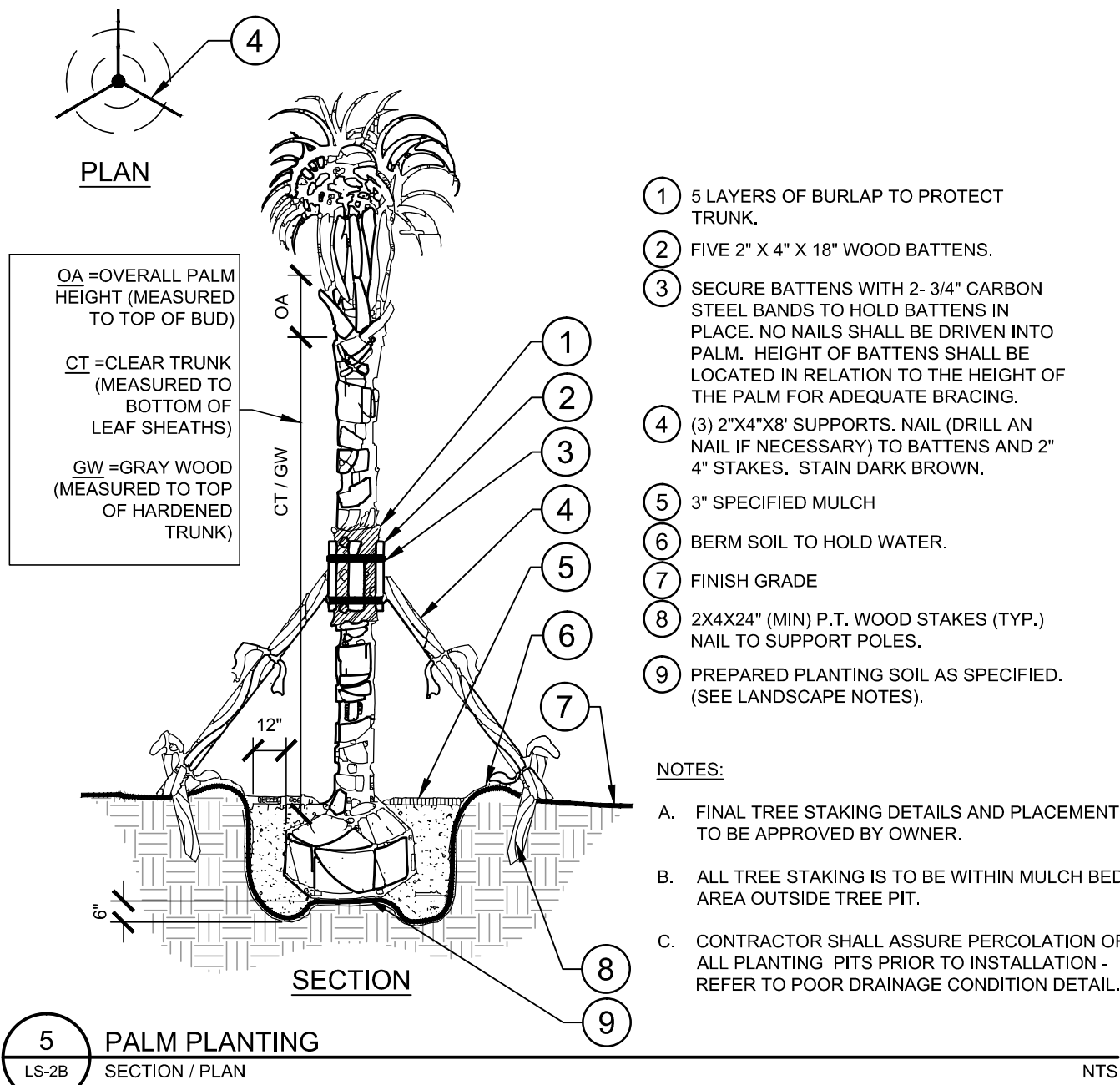
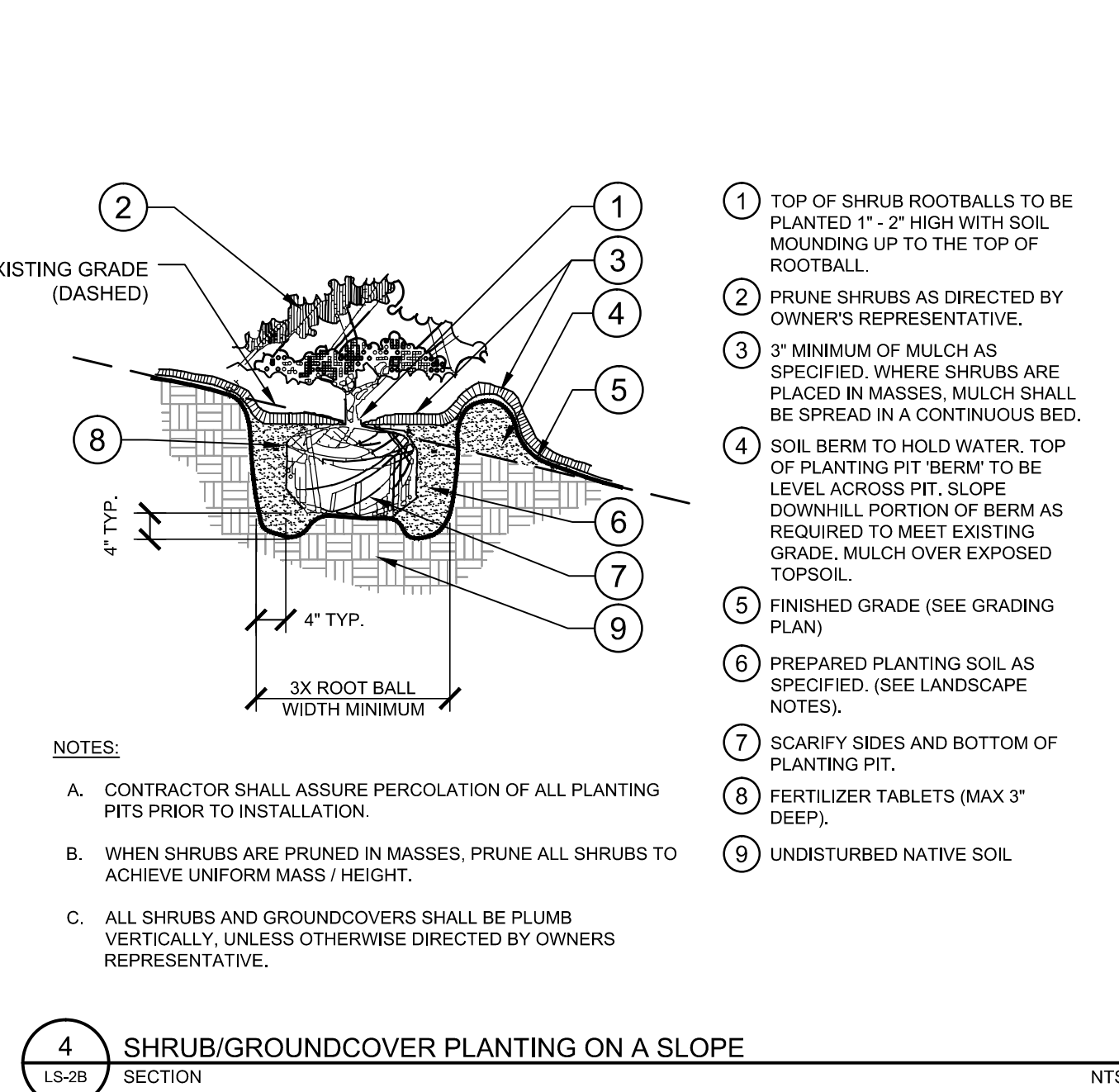
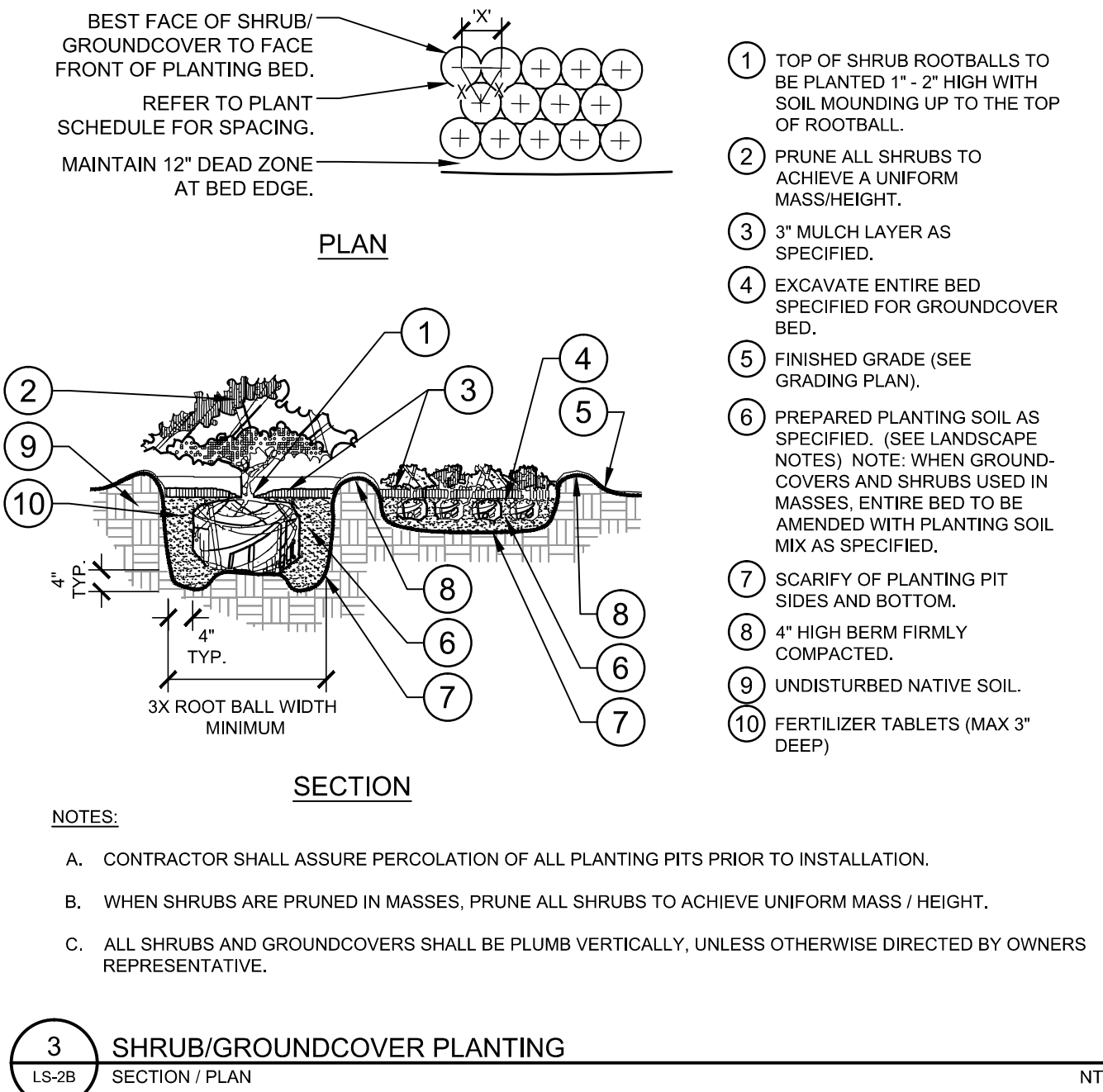
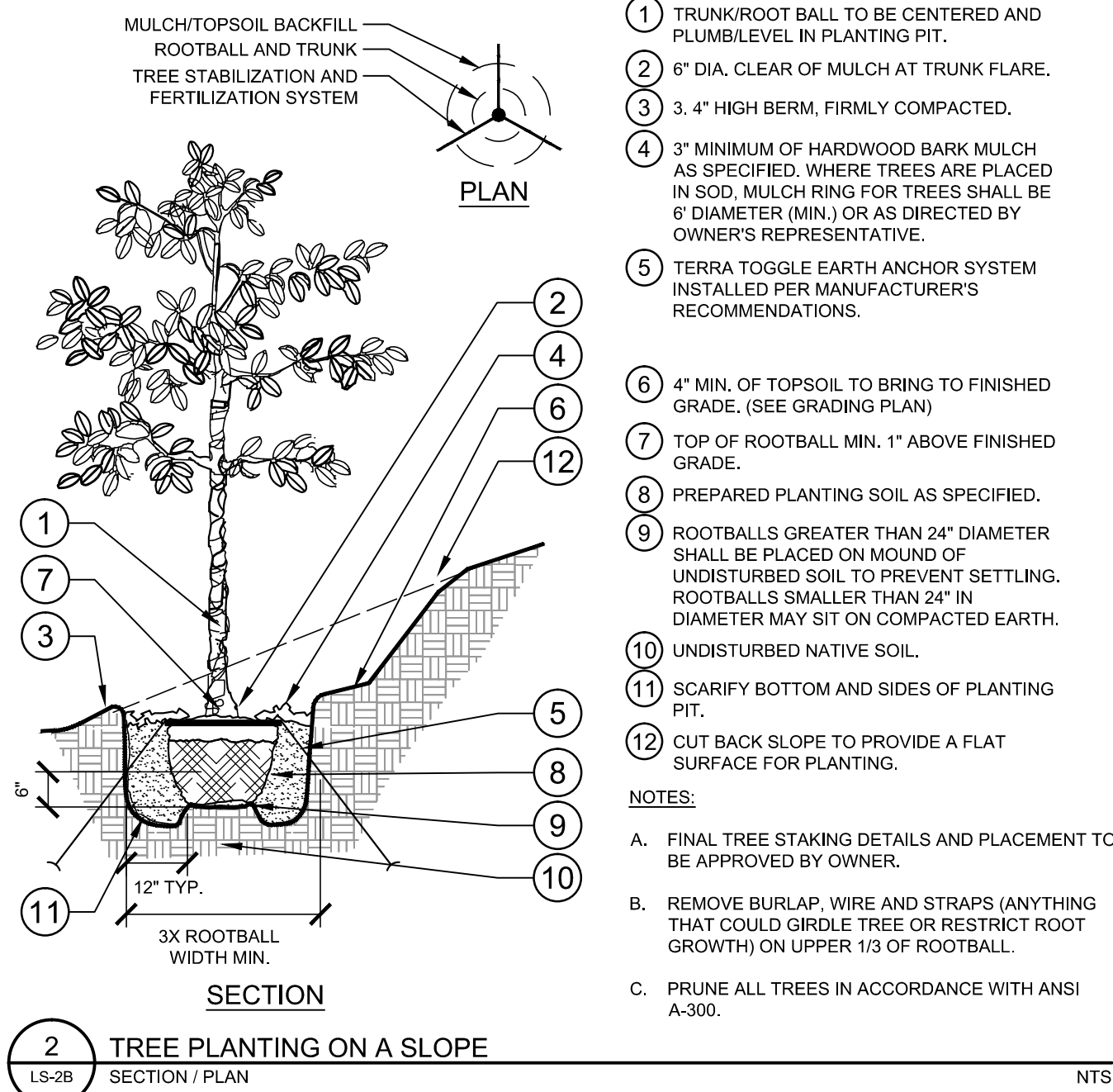
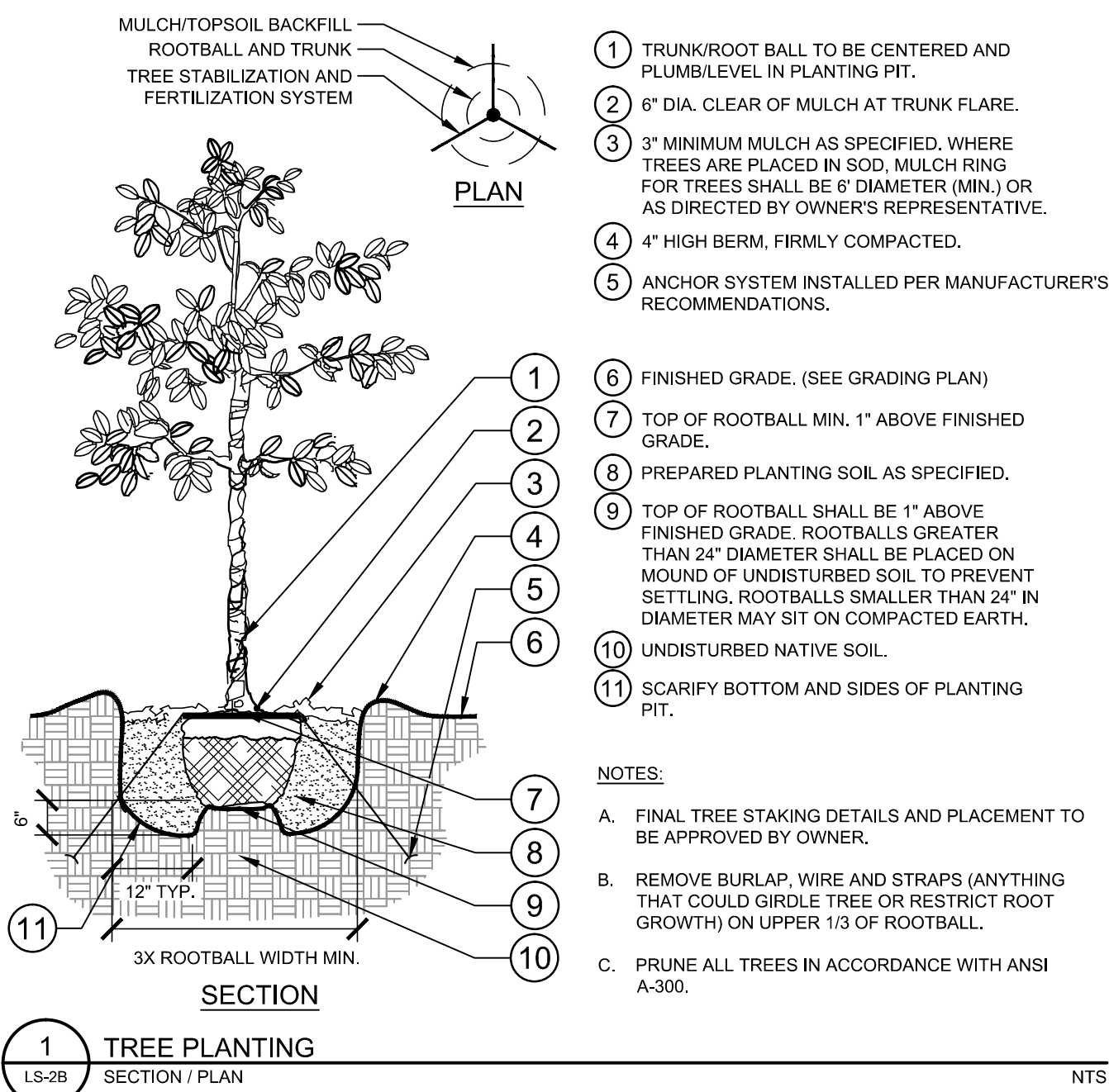
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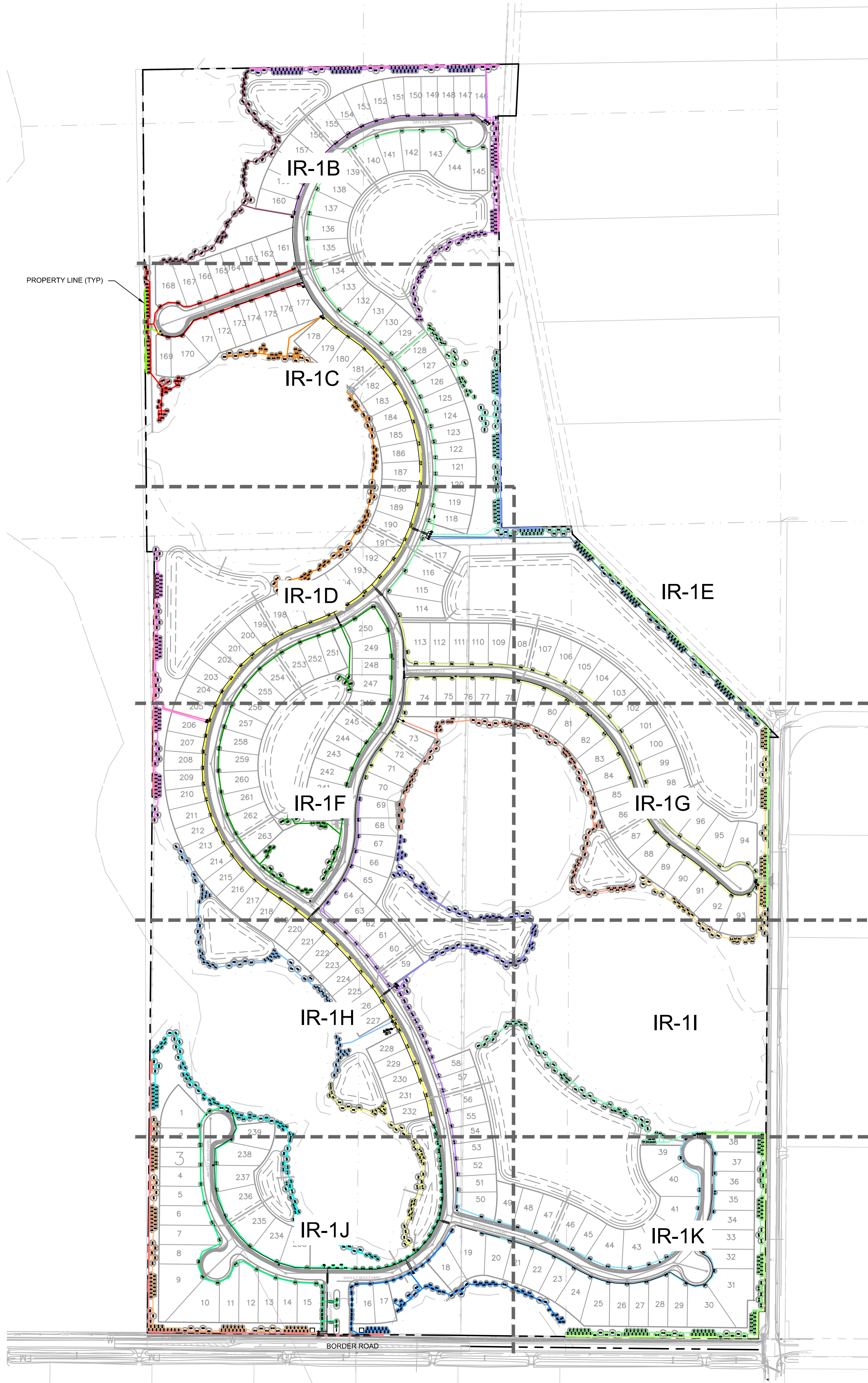


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ARCHITECT		ARCHITECT		ARCHITECT	
L6667207		L6667207		L6667207	
STATE OF		STATE OF		STATE OF	
FLORIDA		FLORIDA		FLORIDA	
KHA PROJECT 048119141		KHA PROJECT 048119141		KHA PROJECT 048119141	
DATE NOV 2017		DATE NOV 2017		DATE NOV 2017	
SCALE AS SHOWN		SCALE AS SHOWN		SCALE AS SHOWN	
DESIGNED BY PMH		DESIGNED BY PMH		DESIGNED BY PMH	
DRAWN BY JLL		DRAWN BY JLL		DRAWN BY JLL	
CHECKED BY TMS		CHECKED BY TMS		CHECKED BY TMS	
DATE: 12/17/2017		DATE: 12/17/2017		DATE: 12/17/2017	
CITY OF VENICE		CITY OF VENICE		CITY OF VENICE	
FLORIDA		FLORIDA		FLORIDA	
WOODS AT VENICE		WOODS AT VENICE		WOODS AT VENICE	
PREPARED FOR		PREPARED FOR		PREPARED FOR	
BORDER ROAD		BORDER ROAD		BORDER ROAD	
INVESTMENTS, LLC		INVESTMENTS, LLC		INVESTMENTS, LLC	
SHEET NUMBER		SHEET NUMBER		SHEET NUMBER	
LS-2B		LS-2B		LS-2B	



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## IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
▲ 1401 ▲ 1402 ▲ 1404 ▲ 1408	RAIN BIRD 1800-1400 FLOOD FIXED FLOW RATE (0.25-2.0GPM), FULL CIRCLE BUBBLER, 1/2" FIPT.	3,638	20
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
■	RAIN BIRD XCZ-150-PRB-COM HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES. 1-1/2" PRESS VALVE WITH TWO 1" PRESSURE REGULATING (ADPSI) QUICK-CHECK BASKET FILTERS. FLOW RANGE: 15-40GPM.	7	
F	RAIN BIRD MDCFCAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COUPLER.	7	
A	RAIN BIRD ARV050 1/2" AIR RELIEF VALVE, MADE OF QUALITY RUST-PROOF MATERIALS, WITH A 6.0" DRIP VALVE BOX (SEB 7XB EMITTER BOX). USE WITH INSTALLATION BELOW SOIL. THE VALVE WILL ALLOW AIR TO ESCAPE THE PIPELINE, THUS PREVENTING WATER HAMMER OR BLOCKAGE.	7	
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFCV-09-18 (18) XFCV ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 3.5 PSI CHECK VALVE, 0.9GPH EMITTERS AT 18.0" O.C. DRIPLINE LATERALS SPACED AT 18.0" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. GREAT FOR ELEVATION CHANGE.	11,817 S.F.	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
☼	RAIN BIRD PEB-PRS-D 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION, WITH PRESSURE REGULATOR MODULE.	25	
MY	RAIN BIRD PEB-PRS-D 2" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION, WITH PRESSURE REGULATOR MODULE.	1	
C	RAIN BIRD ESP8LXME-LXMM-LXMMPED WITH (01) ESPLXMSM4 20 STATION CAPABLE COMMERCIAL CONTROLLER, MOUNTED ON A POWDER-COATED METAL PEDESTAL.	1	
RS	WIRELESS RAIN SENSOR HYDROPOINT0042 (PROVIDED BY OWNER, INSTALLED BY CONTRACTOR)	1	
FS	RAIN BIRD FS-150-P 1-1/2" FLOW SENSOR. PLASTIC (PVC) MODEL. SUGGESTED OPERATING RANGE OF 5.0 GPM TO 100.0 GPM. SENSORS SHOULD BE SIZED FOR FLOW RATHER THAN PIPE SIZE.	1	
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	59,626 L.F.	
---	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21	11,287 L.F.	
---	PIPE SLEEVE: PVC SCHEDULE 40	527.9 L.F.	
Valve Callout	Valve Number		
#	Valve Flow		
#	Valve Size		

## VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	RAIN BIRD XCZ-150-PRB-COM	1-1/2"	AREA FOR DRIPLINE	16.35	26.16	32.39	0.69 in/h
2	RAIN BIRD PEB-PRS-D	2"	BUBBLER	67.00	27.81	46.73	1.16 in/h
3	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	37.50	27.23	35.11	1.31 in/h
4	RAIN BIRD XCZ-150-PRB-COM	1-1/2"	AREA FOR DRIPLINE	14.77	24.01	30.67	0.69 in/h
5	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	69.50	28.65	57.68	1.12 in/h
6	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	38.00	26.64	39.54	1.23 in/h
7	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	40.00	27.23	41.01	1.76 in/h
8	RAIN BIRD PEB-PRS-D	2"	BUBBLER	53.00	28.25	33.45	1.25 in/h
9	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	50.50	27.34	34.25	1.27 in/h
10	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	28.00	27.20	32.87	1.39 in/h
11	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	47.00	27.47	43.30	1.16 in/h
12	RAIN BIRD XCZ-150-PRB-COM	1-1/2"	AREA FOR DRIPLINE	9.62	22.64	28.28	0.69 in/h
13	RAIN BIRD PEB-PRS-D	2"	BUBBLER	66.50	28.08	47.20	1.22 in/h
14	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	54.00	27.74	53.82	1.16 in/h
15	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	51.00	27.53	51.72	1.74 in/h
16	RAIN BIRD XCZ-150-PRB-COM	1-1/2"	AREA FOR DRIPLINE	17.34	27.36	34.94	0.69 in/h
17	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	40.00	27.01	41.99	1.22 in/h
18	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	54.00	27.83	50.15	1.21 in/h
19	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	46.00	27.17	45.12	1.16 in/h
20	RAIN BIRD XCZ-150-PRB-COM	1-1/2"	AREA FOR DRIPLINE	8.64	22.73	28.78	0.69 in/h
21	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	47.00	27.33	55.59	1.06 in/h
22	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	52.50	27.25	60.77	1.18 in/h
23	RAIN BIRD XCZ-150-PRB-COM	1-1/2"	AREA FOR DRIPLINE	14.49	23.55	31.47	0.69 in/h
24	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	42.50	26.93	47.66	1.18 in/h
25	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	44.25	27.05	47.93	1.23 in/h
26	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	57.50	27.43	57.38	1.21 in/h
27	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	41.50	27.00	45.57	1.27 in/h
28	RAIN BIRD XCZ-150-PRB-COM	1-1/2"	AREA FOR DRIPLINE	3.88	20.65	29.69	0.69 in/h
29	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	52.00	27.70	48.40	1.42 in/h
30	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	52.50	27.51	39.99	1.34 in/h
31	RAIN BIRD PEB-PRS-D	2"	BUBBLER	66.50	28.45	52.99	1.14 in/h
32	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	48.50	27.47	38.04	1.13 in/h

## CRITICAL ANALYSIS

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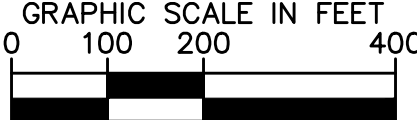
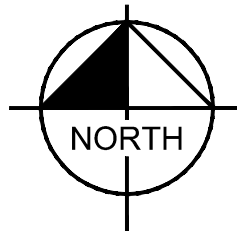
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Point of Connection Size: 4"  
Flow Available: 298.00 gpm

PRESSURE AVAILABLE  
Static Pressure at POC: 90.00 psi  
Pressure Available: 90.00 psi

DESIGN ANALYSIS  
Maximum Station Flow: 69.50 gpm  
Flow Available at POC: 298.00 gpm  
Residual Flow Available: 228.50 gpm

Critical Station: 22  
Design Pressure: 20.00 psi  
Friction Loss: 3.16 psi  
Fittings Loss: 0.32 psi  
Elevation Loss: 0.00 psi  
Loss through Valve: 3.78 psi  
Pressure Req. at Critical Station: 27.25 psi  
Loss for Fittings: 4.21 psi  
Loss for Main Line: 42.11 psi  
Loss for POC to Valve Elevation: 0.00 psi  
Loss for Backflow: 0.00 psi  
Loss for Master Valve: 4.77 psi  
Critical Station Pressure at POC: 78.34 psi  
Pressure Available: 90.00 psi  
Residual Pressure Available: 11.66 psi



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OVERALL IRRIGATION  
PLAN

FLORIDA  
CITY OF VENICE

WOODBOROUGH ARCHITECT  
LA6667207  
STATE OF  
FLORIDA  
REGISTERED PROFESSIONAL ARCHITECT

KHA PROJECT  
048119141  
DATE  
DEC 2017  
SCALE AS SHOWN  
DESIGNED BY PMH  
DRAWN BY JLL  
CHECKED BY TMS  
DATE: 12/17/2017

REVISIONS

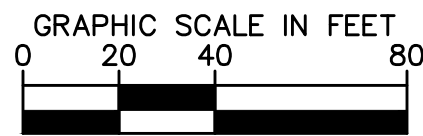
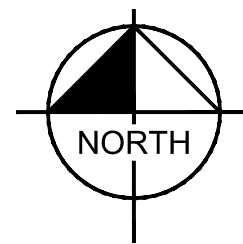
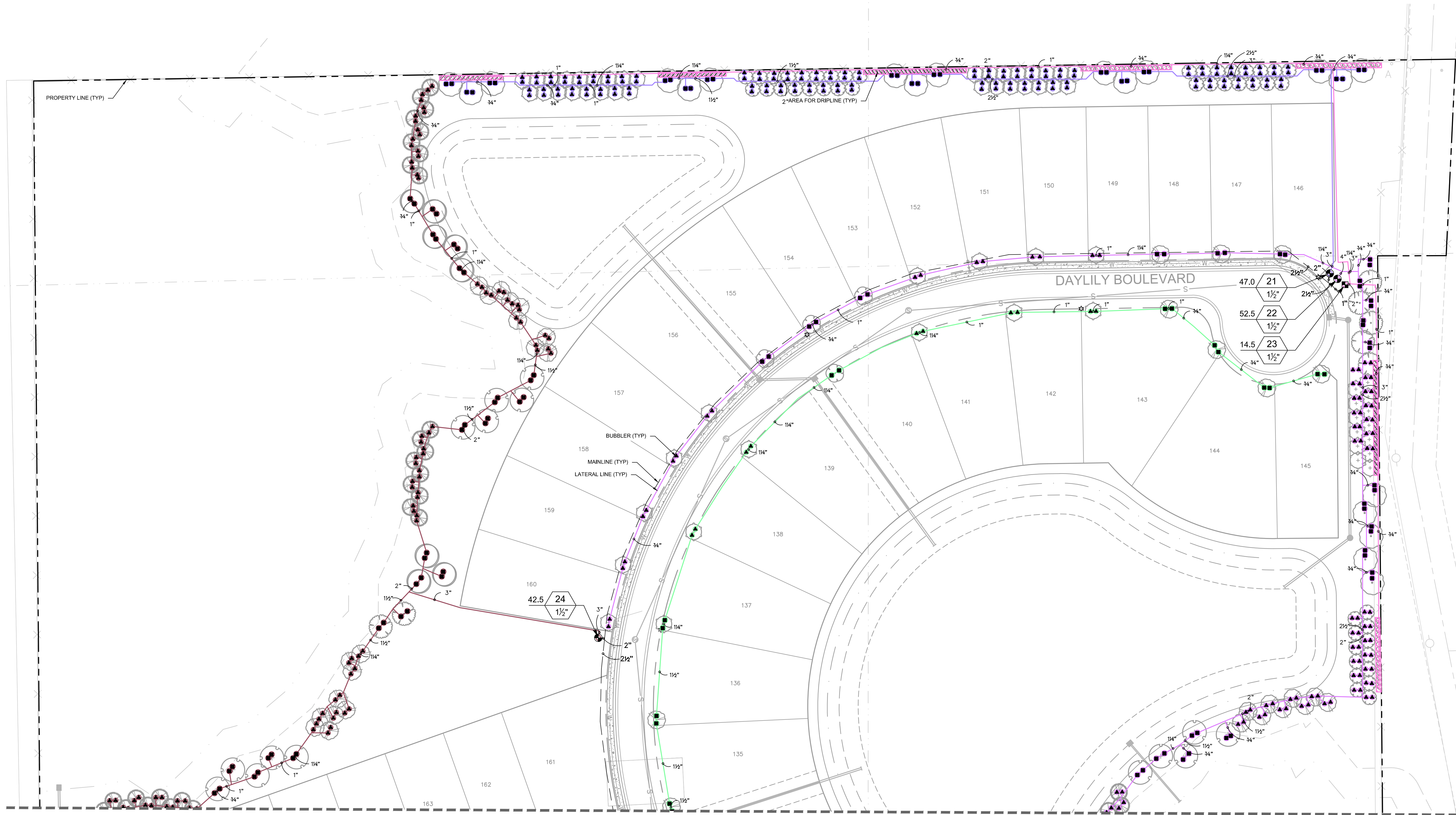
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CITY OF VENICE FLORIDA

SHEET NUMBER  
**IR-1B**

## IRRIGATION PLAN

KHA PROJECT	048119141
DATE	DEC 2017
SCALE	AS SHOWN
DESIGNED BY	PMH
DRAWN BY	JLL
CHECKED BY	TMS
DATE	12/17/2017



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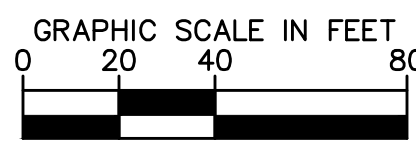
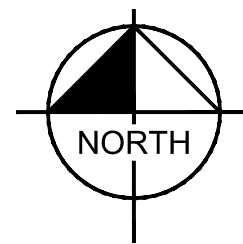
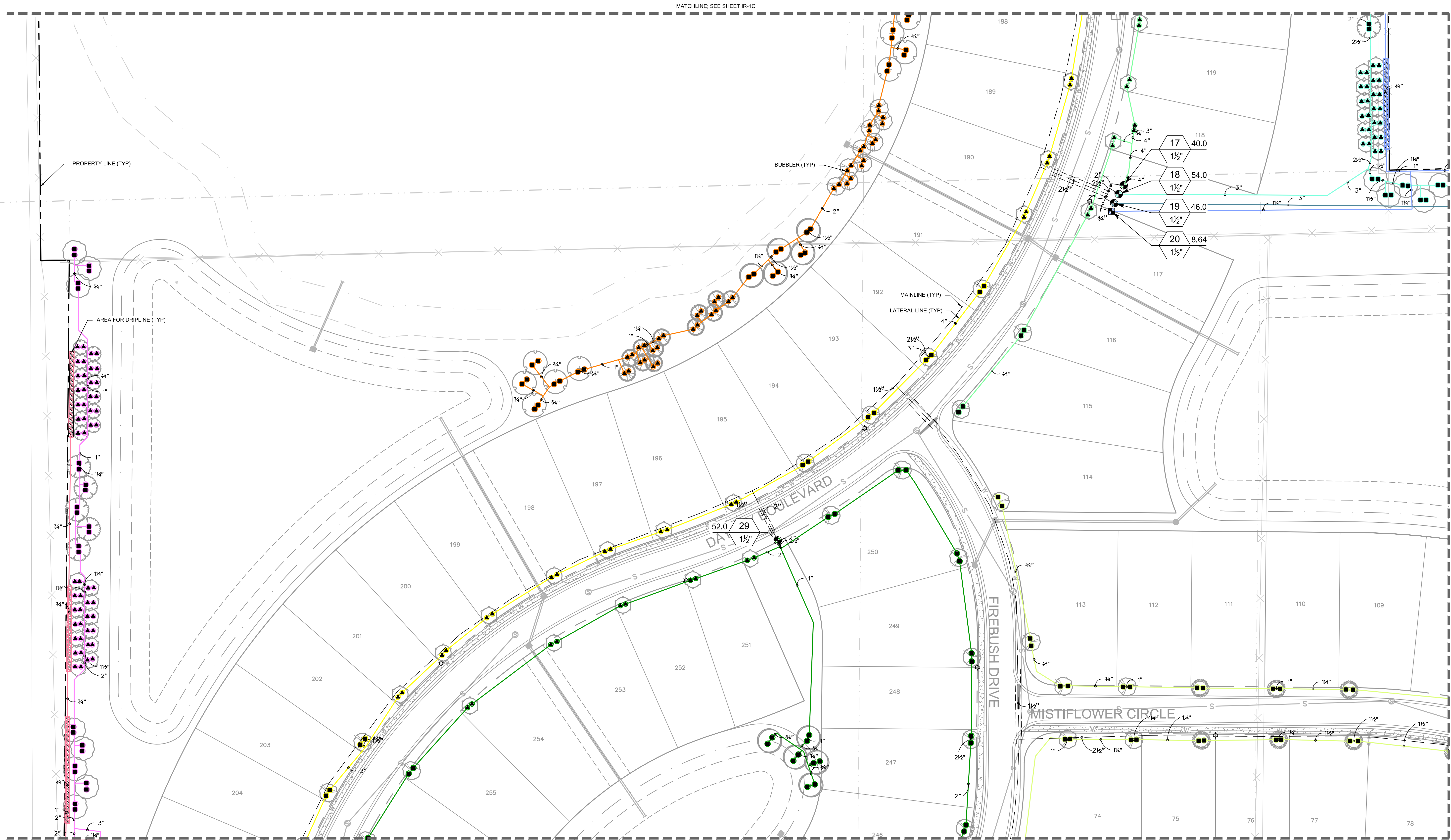
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SHEET NUMBER IR-1D		IR-1D	
KHA PROJECT 048119141		KHA PROJECT 048119141	
DATE DEC 2017		DATE DEC 2017	
SCALE AS SHOWN		SCALE AS SHOWN	
DESIGNED BY PMH		DESIGNED BY PMH	
DRAWN BY JUL		DRAWN BY JUL	
CHECKED BY TMS		CHECKED BY TMS	
DATE 12/17/2017		DATE 12/17/2017	
REVISIONS		REVISIONS	
No.		No.	
DATE		DATE	
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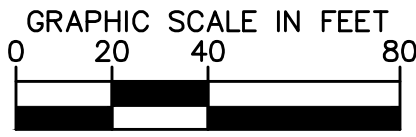
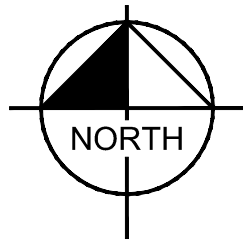
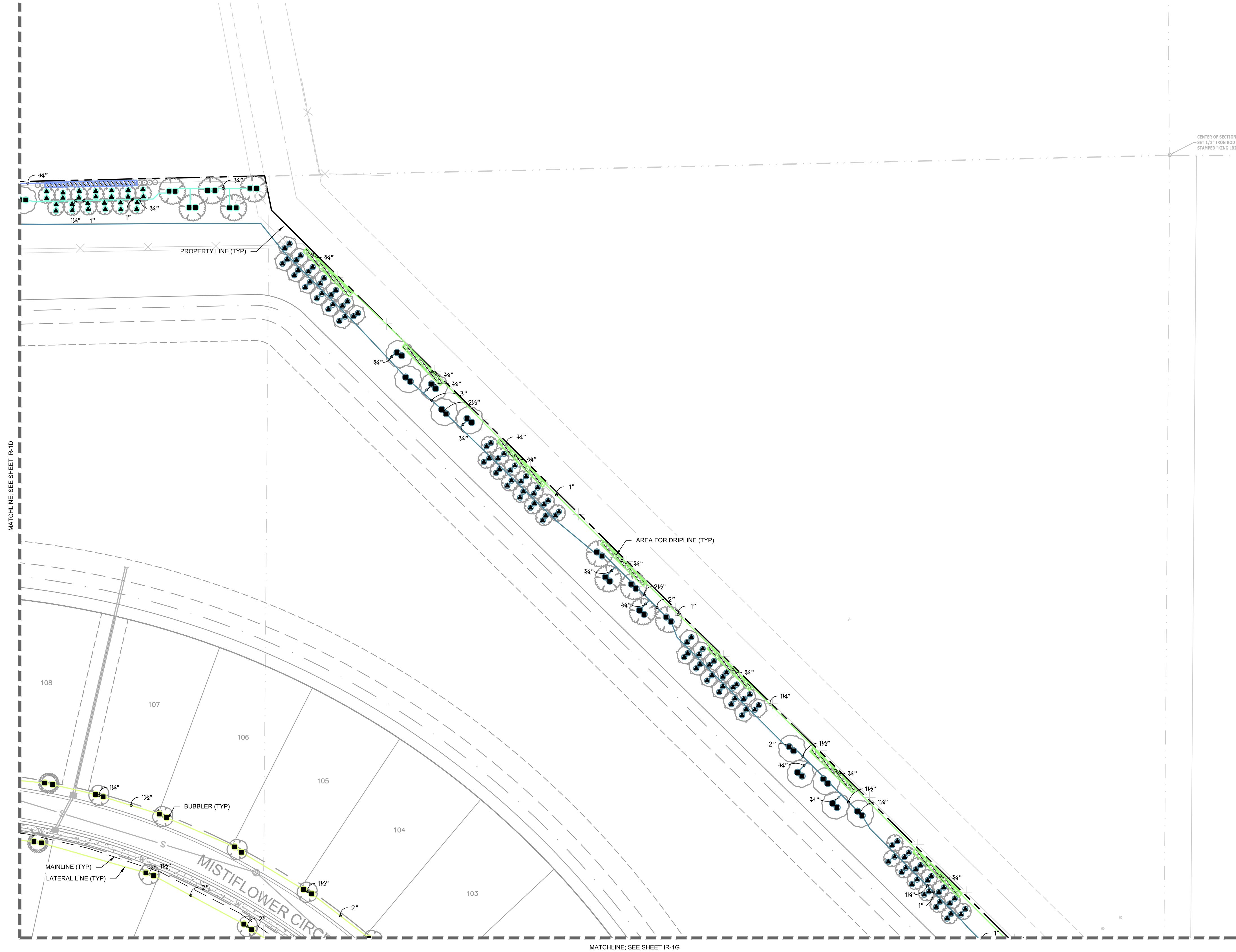
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SHEET NUMBER  
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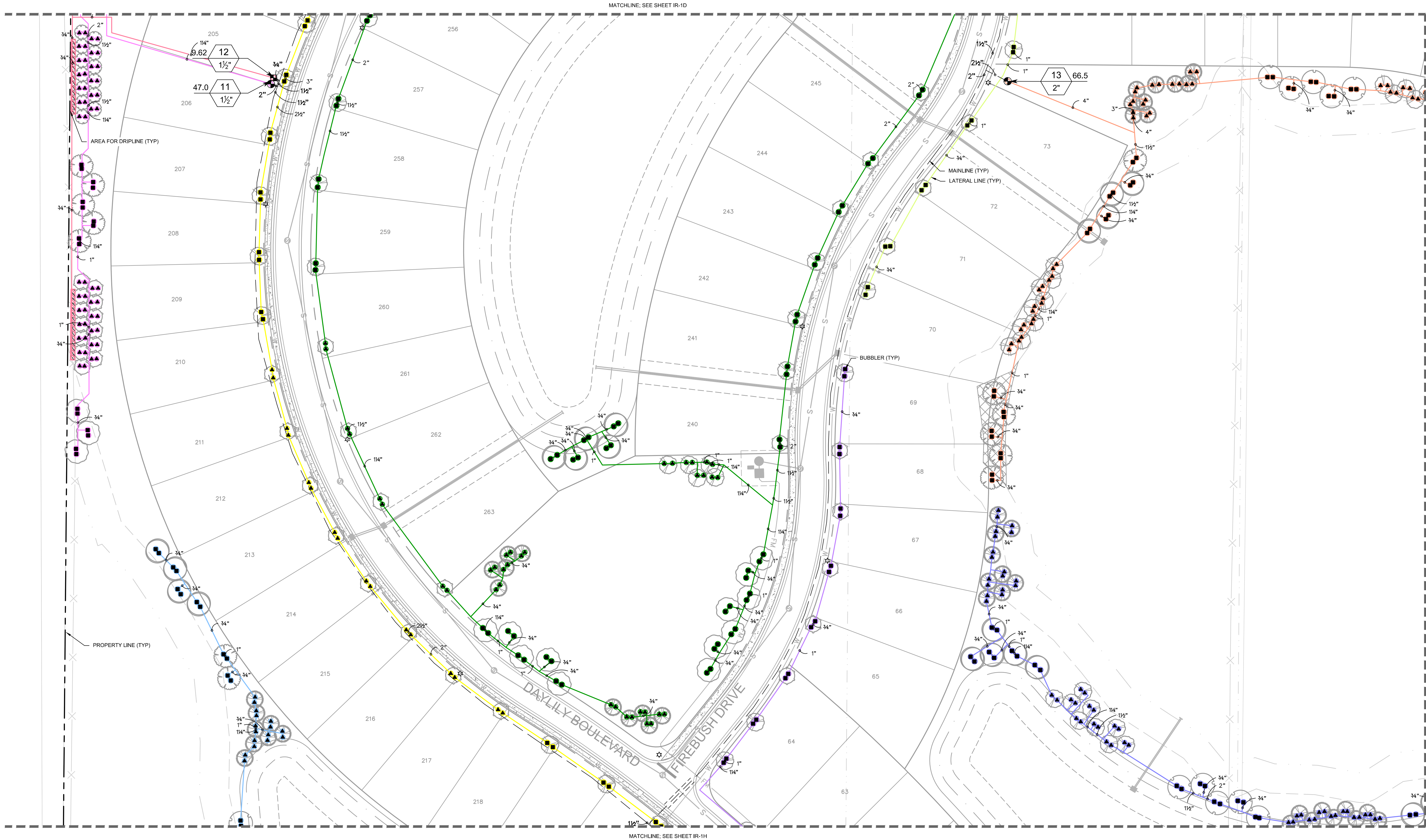
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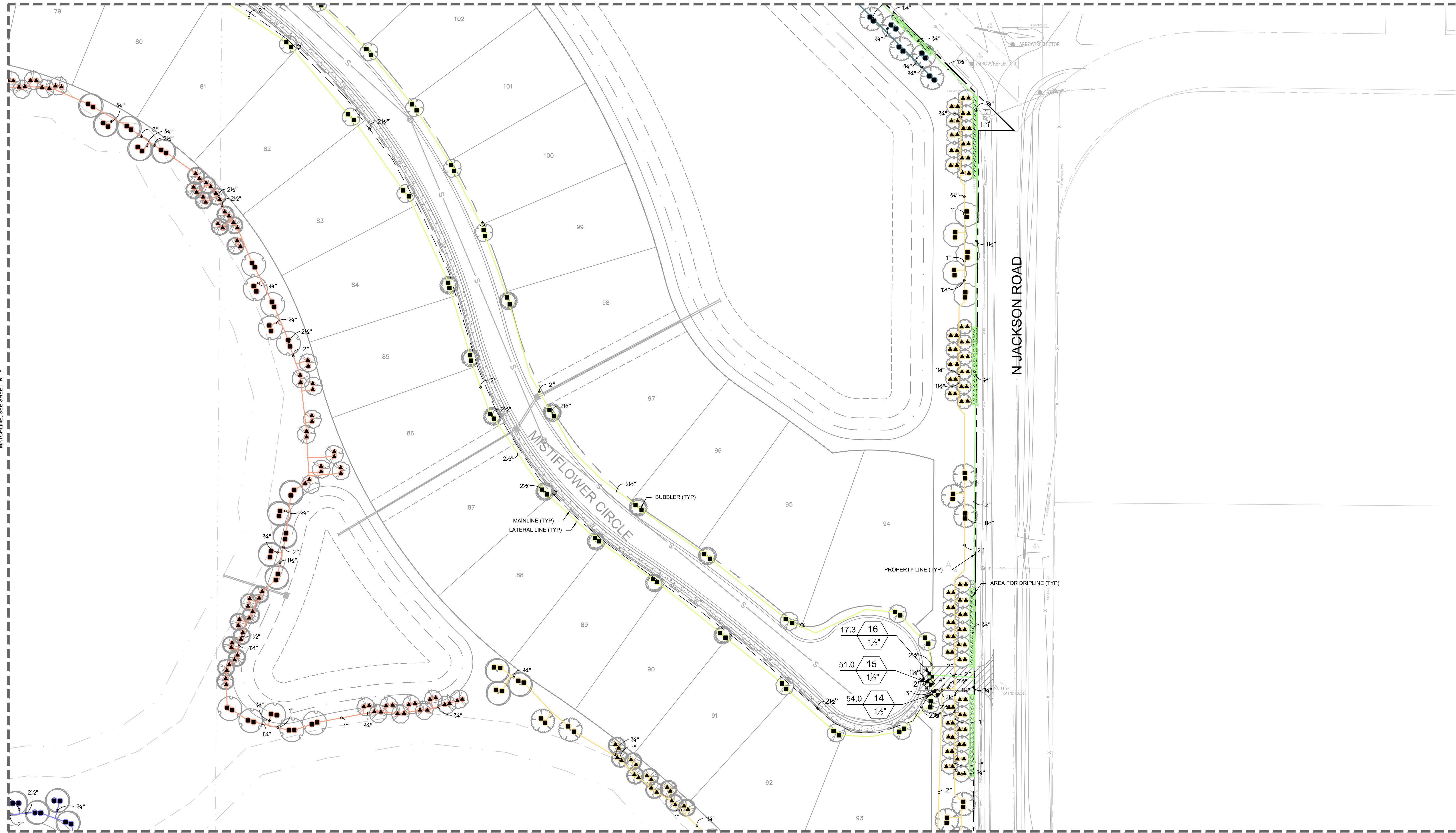
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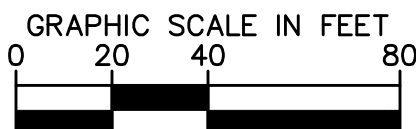
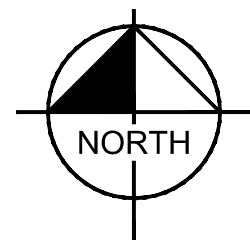


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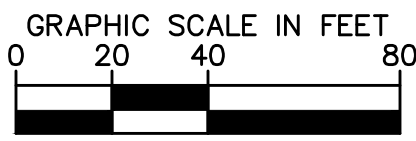
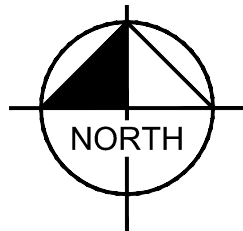
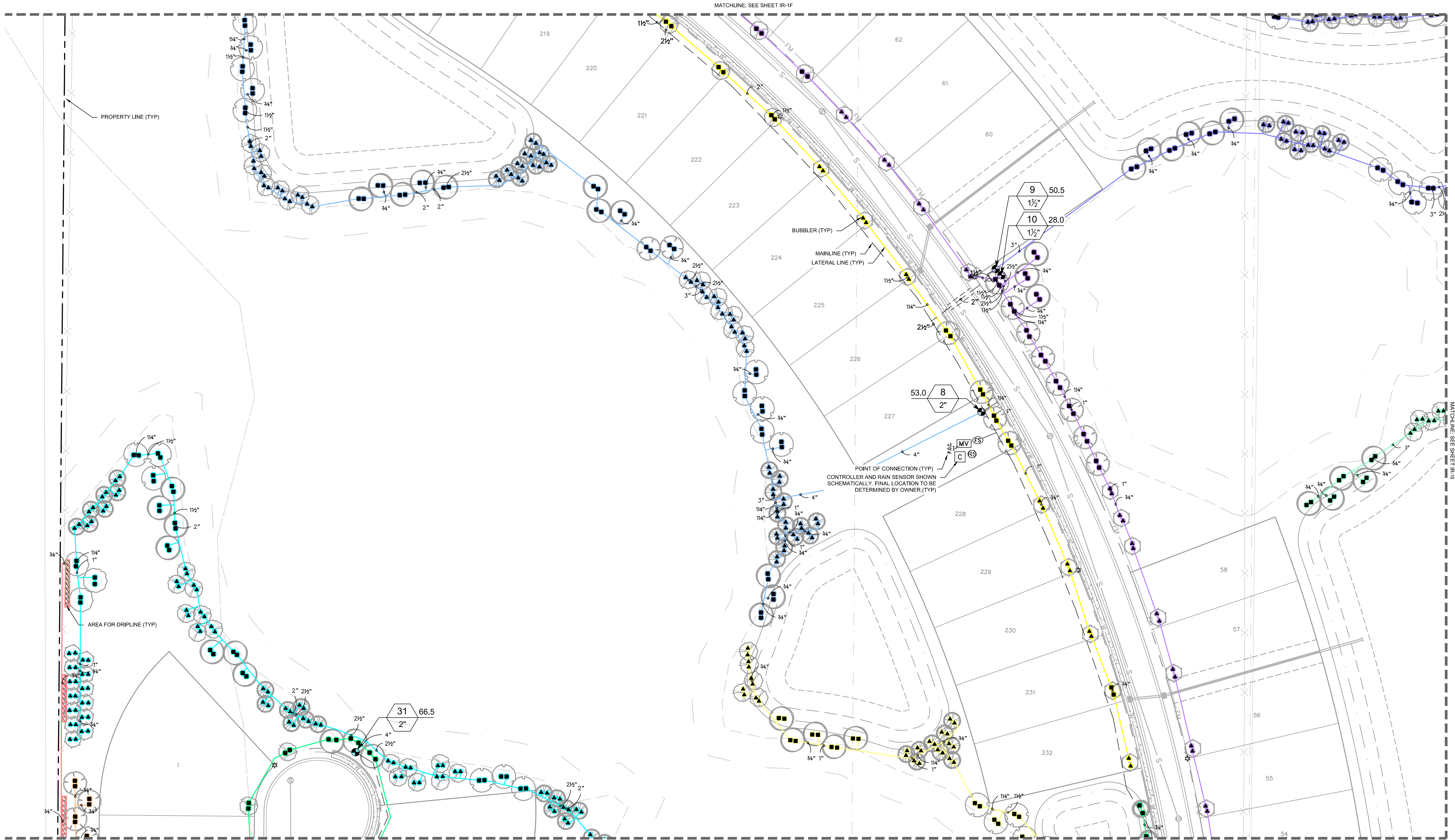
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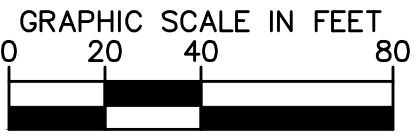
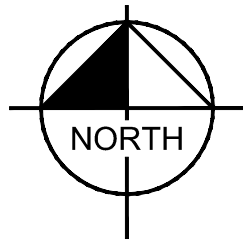
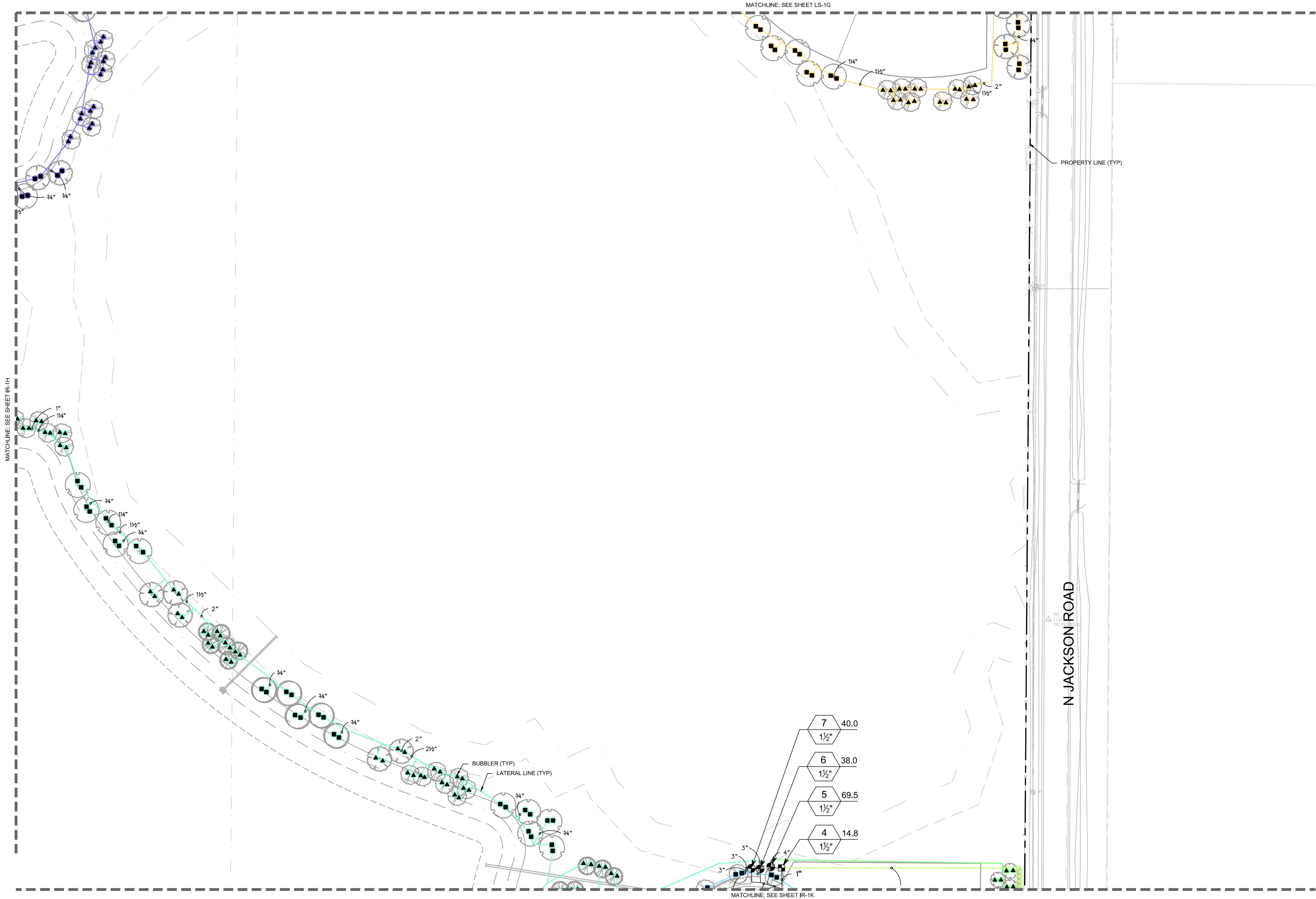
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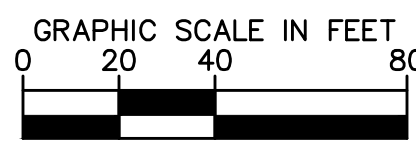
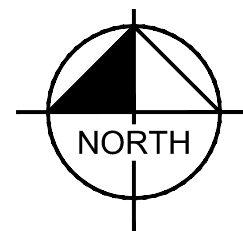
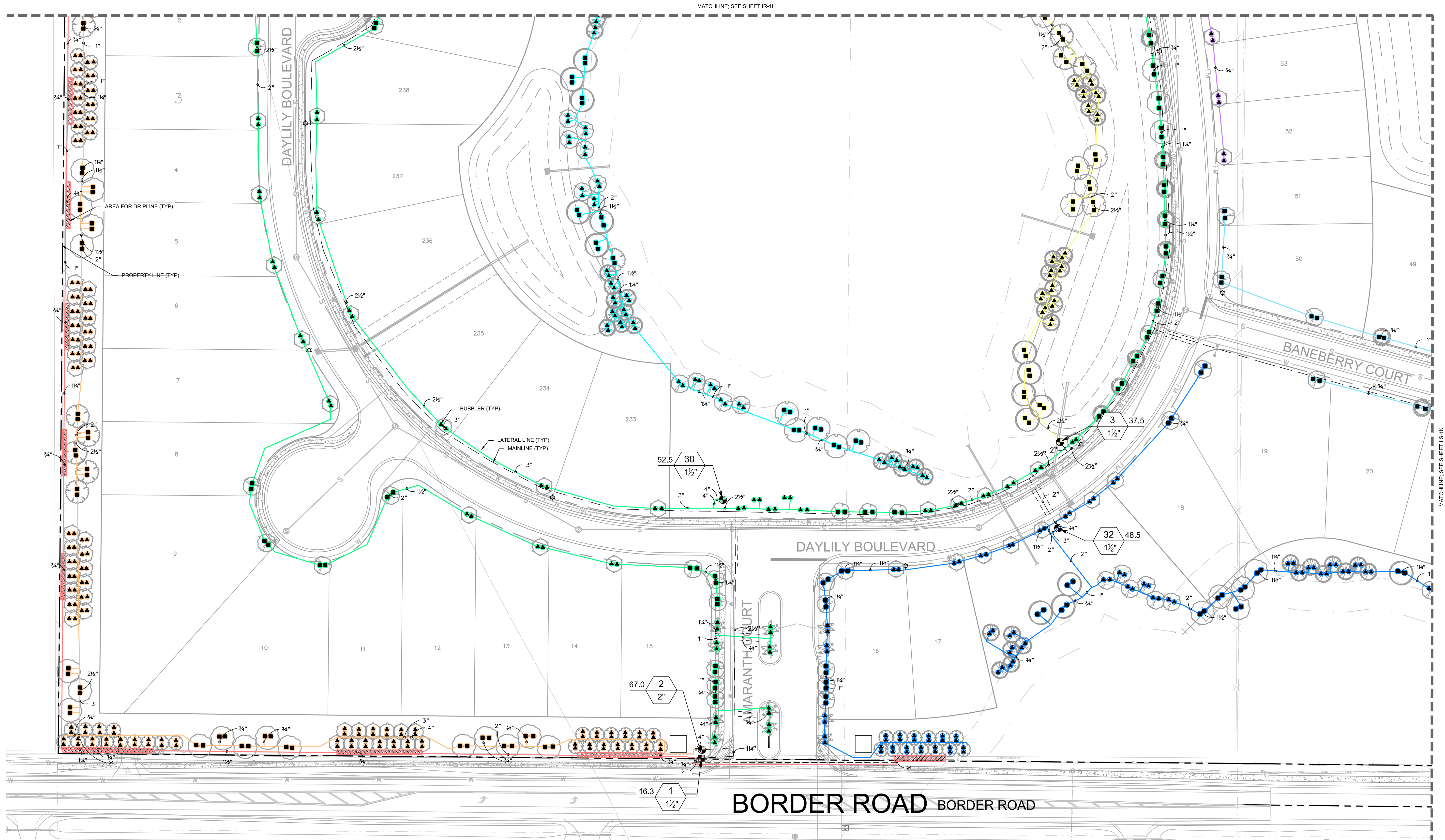
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REGISTERED ARCHITECT LA6667207 STATE OF FLORIDA	DATE: 12/17/2017

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## GENERAL IRRIGATION SPECIFICATIONS AND NOTES

1. THE SYSTEM SHALL BE DESIGNED TO PROVIDE 100% COVERAGE, ANY CHANGES MADE IN THE LAYOUT DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THESE STANDARDS.
2. VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM, ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THESE PLANS-CONTRACTOR SHALL FIELD VERIFY.
3. CONTRACTOR TO FIELD VERIFY ALL POINT OF CONNECTION SOURCE INFORMATION INCLUDING PSI AND GPM PRIOR TO CONSTRUCTION.
4. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON-SITE.
5. IRRIGATION DESIGN IS SCHEMATIC ONLY. FULL AND COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE OWNERS REPRESENTATIVE.
6. CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN FOR PLANTER BED AND TREE LOCATIONS TO ENSURE ALL PLANT MATERIAL IS COVERED BY 100% HEAD-TO-HEAD IRRIGATION.
7. CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT.
8. IRRIGATION CONTRACTOR TO PROVIDE POWER SUPPLY TO ELECTRIC CONTROLLERS.
9. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR, WORK IN THE R.O.W, SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE JURISDICTION.
10. IRRIGATION SYSTEM SHALL NOT BE INSTALLED THROUGH PRESERVED PLANT COMMUNITIES OR WITHIN WETLANDS OR THEIR ASSOCIATED BUFFERS.
11. LOCATE ALL IRRIGATION LINES WITHIN LANDSCAPED AREAS WHENEVER POSSIBLE. ALL LINES IN PAVEMENT MUST BE SLEEVED, ALL VALVES SHALL BE LOCATED WITHIN LANDSCAPED AREAS, AS SPECIFIED.
12. MAINLINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE.
13. CONTRACTOR TO COORDINATE LOCATION OF ALL METERS AND BACKFLOW ASSEMBLIES WITH PROJECT OWNER.
14. THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR SLEEVING AND DIRECTIONAL BORES.
15. ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR WHETHER INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS, THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF THE SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION ON THE "AS-BUILT" DRAWINGS. ALL SLEEVES ON PAVEMENT FOR WALL PENETRATIONS AND UNDER SIDEWALKS SHALL BE SIZED TWO PIPE SIZES GREATER THAN THE PIPE IT CARRIES.
16. ALL PRESSURIZED MAINLINES AND LATERALS UNDER PAVEMENT SHALL BE WITHIN SLEEVES AS NOTED, WHERE ELECTRIC OR HYDRAULIC VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT.
17. SLEEVES UNDER EXISTING PAVEMENT MUST BE DIRECTIONAL BORE, OPEN CUT IS NOT AN OPTION.
18. NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT BLACK LETTERS TO CORRESPOND TO AUTOMATIC AND GATE VALVE DESIGNATIONS. ALL HOSE BIBB VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "H", LETTER OUTSIDE OF TIME CLOCK CABINETS TO CORRESPOND WITH IRRIGATION CLOCK PROGRAM DESIGNATION.
19. THE IRRIGATION CONTRACTOR SHALL INSTALL A COLOR CODED METAL DETECTABLE MARKING TAPE WHICH CLEARLY NOTES: "CAUTION: IRRIGATION LINE BURIED BELOW," THE TAPE SHALL BE INSTALLED THE FULL LENGTH OF THE IRRIGATION MAINLINE.
20. ALL VALVES, SPLICES WITHIN CONTROL LINES, AND QUICK COUPLERS SHALL BE LOCATED WITHIN NDS VALVE BOXES AS FOLLOWS:
  - RECTANGULAR 12X17" HEAVY DUTY BOX, (PURPLE COVER FOR REUSE TO BE PROVIDED WHERE APPROPRIATE).
21. ALL UNSIZED PIPE SHALL BE 3/4" UNLESS OTHERWISE NOTED ON PLAN. SEE LATERAL PIPE SIZING REQUIREMENTS.
22. EACH TREE AND PALM (AS SHOWN ON THE PLANS) SHALL HAVE TWO (2) FLOOR BUBBLERS, SUCH HEADS SHALL BE ON MINIMUM 5'-0" LENGTH OF FLEXIBLE PIPE TO ALLOW ITS POSITIONING AT THE TREE. LOCATE BUBBLER ON THE UPHILL SIDE OF TREES ON ALL SLOPES.
23. ALL IRRIGATION HEADS/DRIP TUBING SHALL BE LOCATED ONE (1) FOOT FROM BACK OF CURB WHEN NEXT TO A ROADWAY. (THIS SHALL NOT INCLUDE PARKING AREAS OR DRIVE AISLES).
24. LOCATE ALL VALVES IN PLANTING BEDS WITH A MINIMUM OF 3' FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED, PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAINLINE TO SECTION LATERAL SHALL BE ONE (1) PIPE SIZE LARGER THAN VALVE SIZE, WHERE MAINLINES RUN PARALLEL TO PAVEMENT OR CURBING, THE MAINLINE SHALL BE OFFSET 2'-0" FROM THE EDGE OF PAVEMENT OR CURB.
25. IRRIGATION ZONES SHALL BE SEPARATED FOR HIGH AND LOW WATER USE REQUIREMENTS AND OPERATED ON DIFFERENT WATERING CYCLES. BUBBLERS, DRIPLINE, AND SPRAY HEADS SHALL BE SEPARATED ON DIFFERENT VALVES. AT NO TIME SHALL MULTIPLE IRRIGATION HEAD TYPES BE LOCATED ON THE SAME VALVE.
26. ALL DRIP ZONES SHALL BE INSTALLED WITH A FLUSH VALVE AND AIR RELIEF VALVE, IN THE EVENT THAT A DRIP ZONE HAS MORE THAN ONE HIGH OR LOW POINT, MORE THAN ONE AIR RELIEF VALVE OR FLUSH VALVE WILL BE REQUIRED FOR THAT ZONE. DRIPLINE SHALL PROVIDE 0.9 GPH EMITTERS, 18" O.C. WITH 18" LINE SPACINGS AT A MINIMUM.
27. IRRIGATION CONTRACTOR TO COORDINATE WITH OWNER FOR FINAL CONTROLLER AND RAIN SENSOR LOCATIONS, THE CONTROLLER SHALL BE PLACED IN A LOCKING CABINET APPROPRIATE FOR ITS LOCATION. (INDOOR VS. OUTDOOR USE)
28. LOCATE THE AUTOMATIC RAIN SENSOR SHUTOFF DEVICE IN AN AREA THAT IS UNOBSTRUCTED BY TREES, ROOF OVERHANGS, OR ANY OTHER OVERHEAD OBJECT, THE SENSOR SHALL NOT BE PLACED WITHIN THE SPRAY ZONE OF ANY SPRINKLER HEAD, INCLUDING OFF-SITE IRRIGATION. CONTRACTOR SHALL LOCATE SENSOR WITHIN CLOSE PROXIMITY TO THE IRRIGATION CONTROLLER.
29. CONTRACTOR SHALL PERFORM HYDRO-TESTING OF MAIN LINES.

## LATERAL PIPE SIZING REQUIREMENTS

FLOW RANGE	MINIMUM PIPE SIZE
1 TO 10 GPM	3/4"
11 TO 20 GPM	1"
21 TO 30 GPM	1-1/4"
31 TO 40 GPM	1-1/2"
41 TO 60 GPM	2"
51 TO 90 GPM	2-1/2"
91 TO 100 GPM	3"

PIPE SIZES ILLUSTRATED IN THE ABOVE CHART ARE MINIMUM ACCEPTABLE SIZES. CONTRACTOR SHALL FIELD SIZE ALL LATERAL PIPING TO KEEP ALL FRICTION LOSS VELOCITIES BELOW 5.0 FPS.

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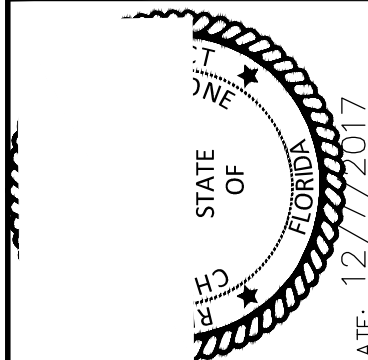
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# IRRIGATION NOTES



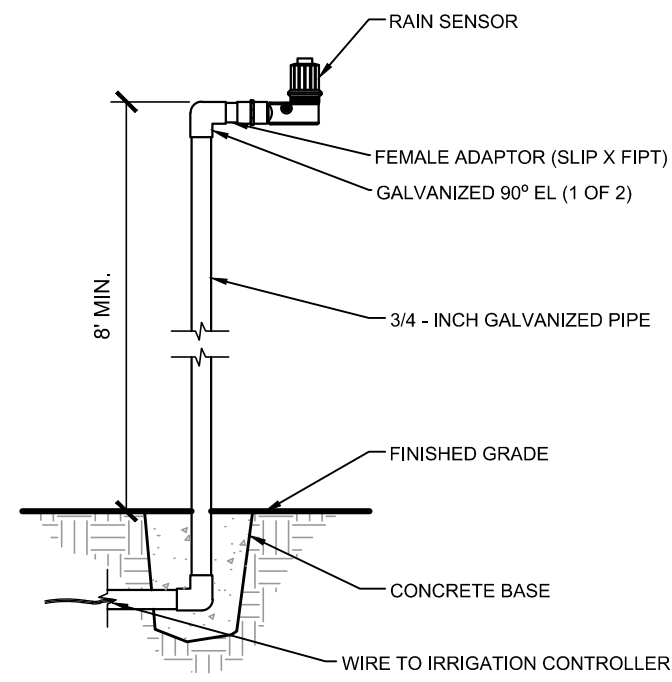
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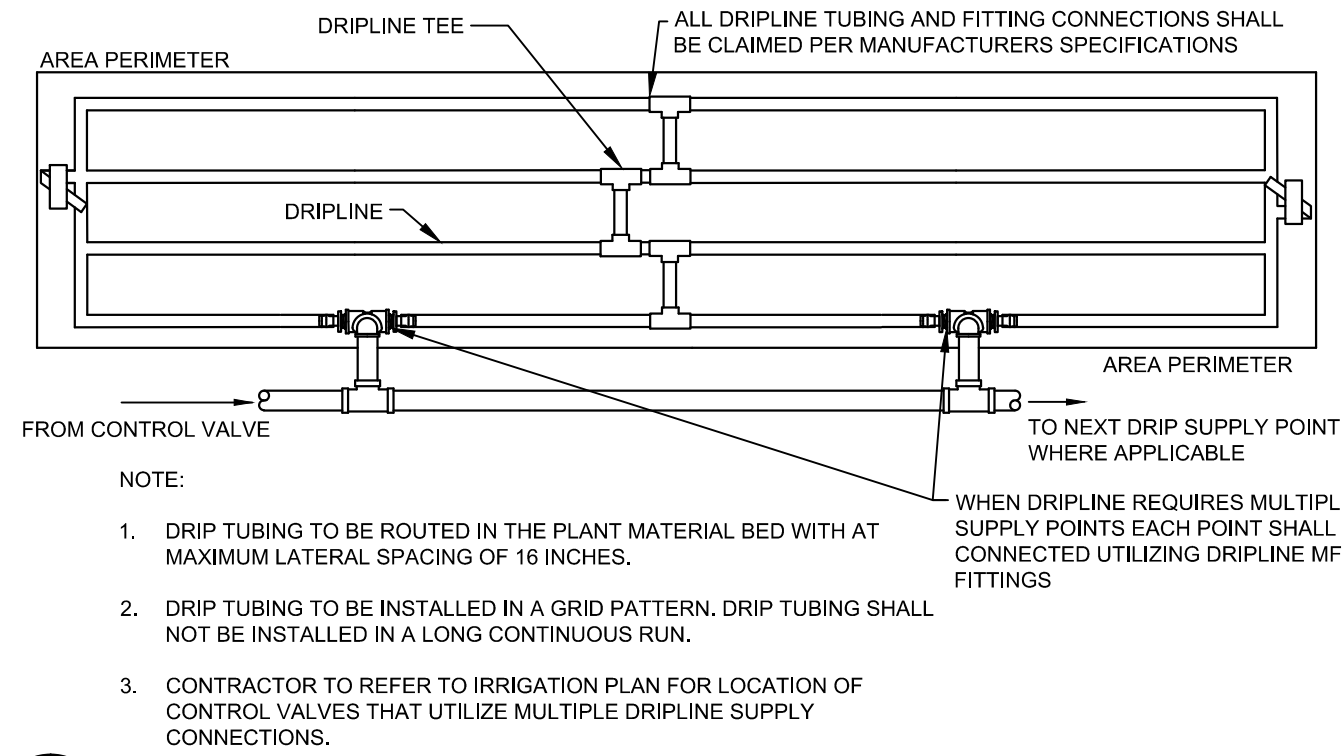
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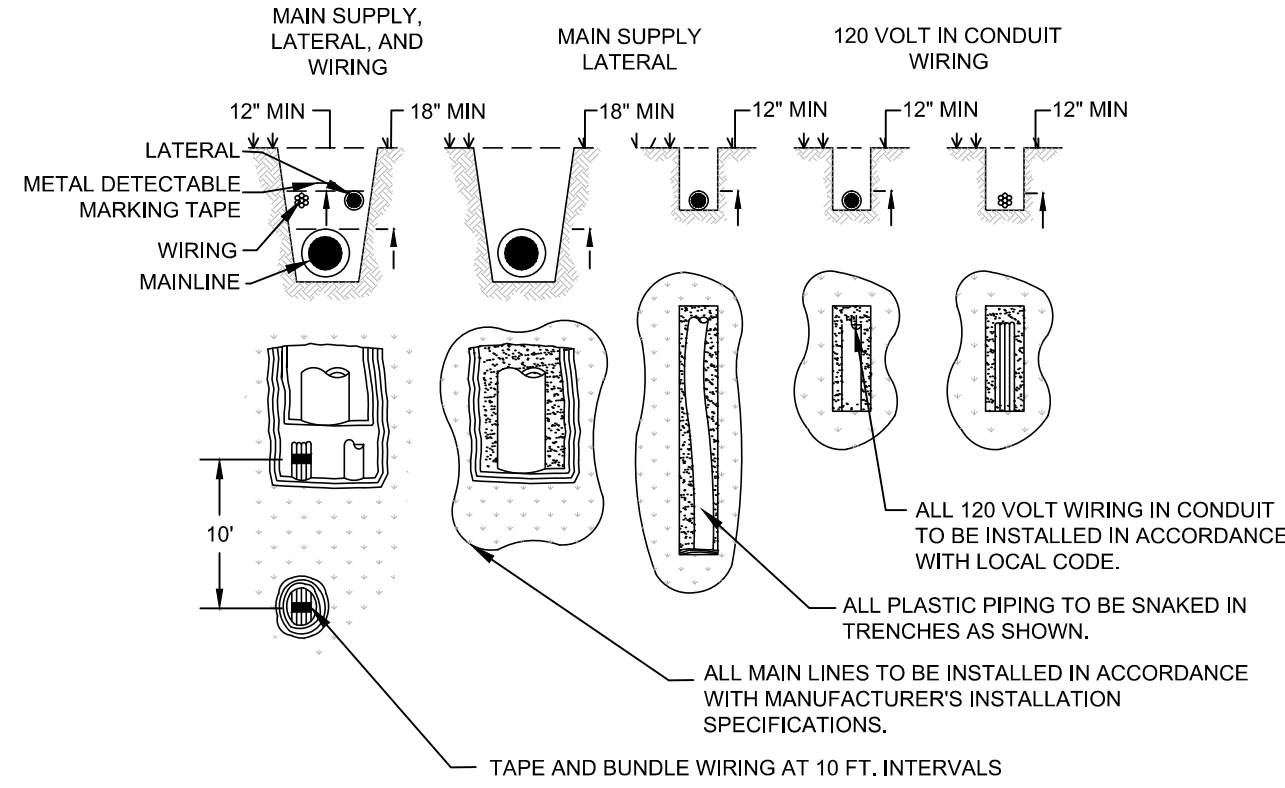
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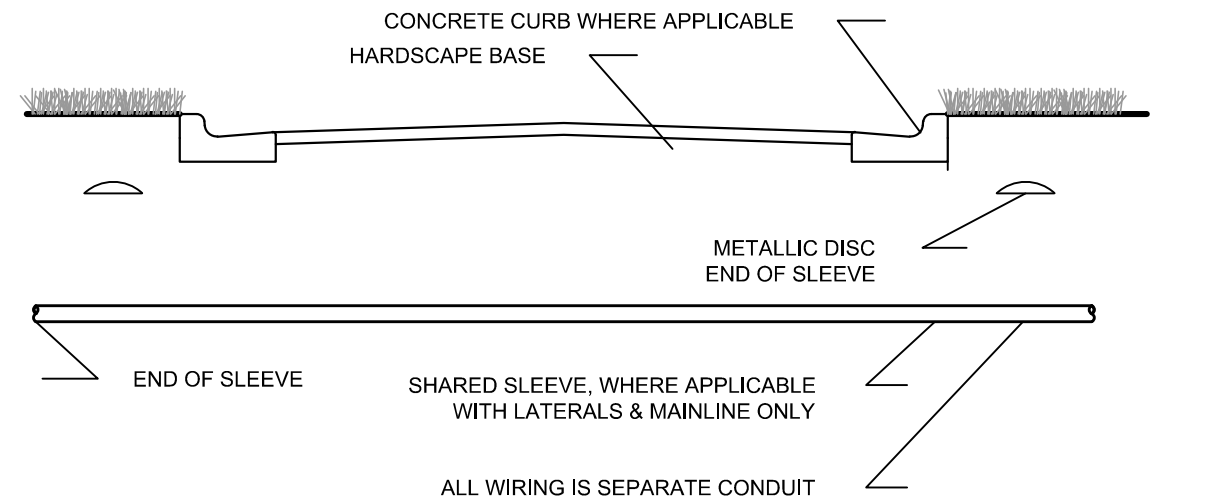
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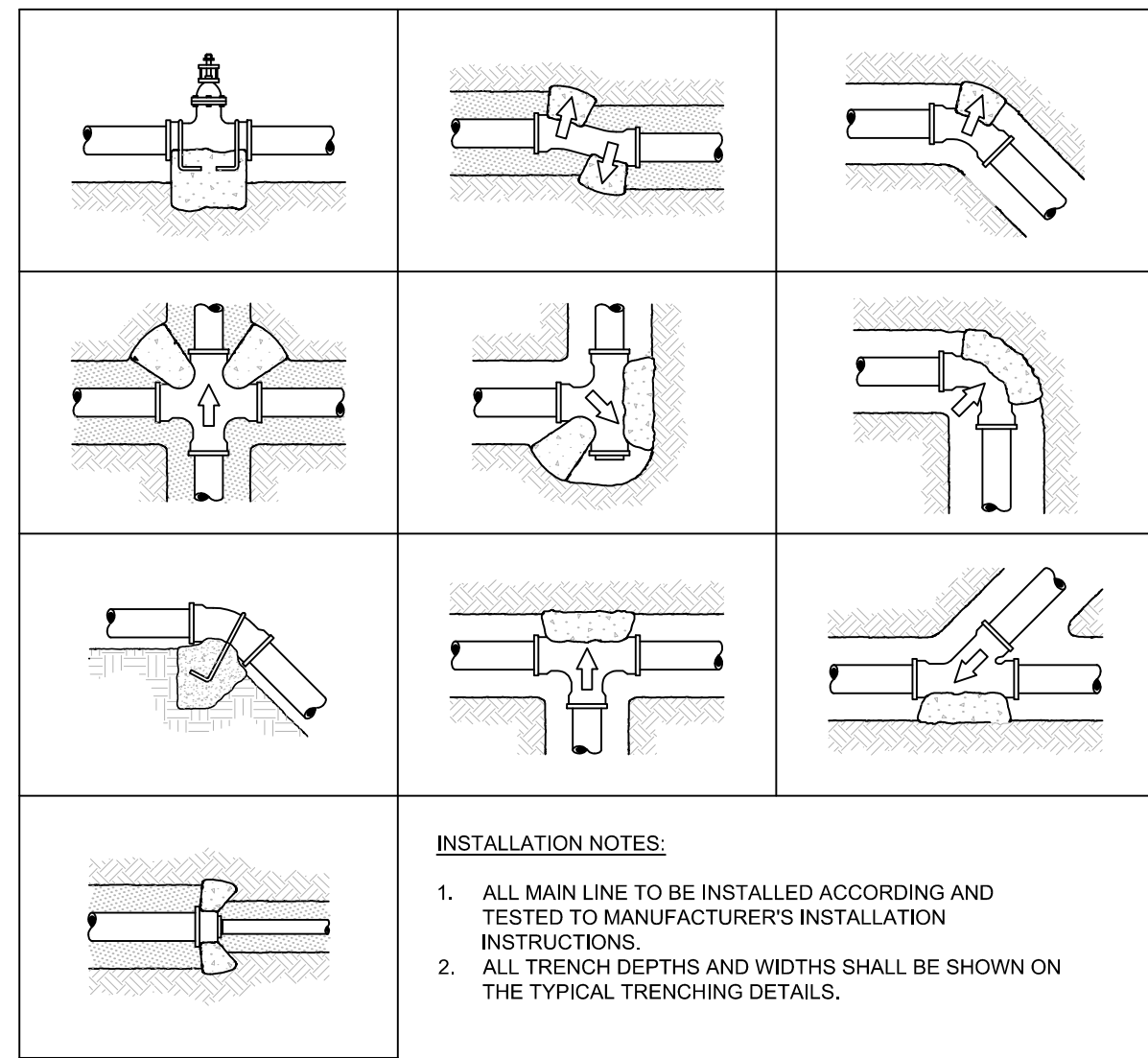
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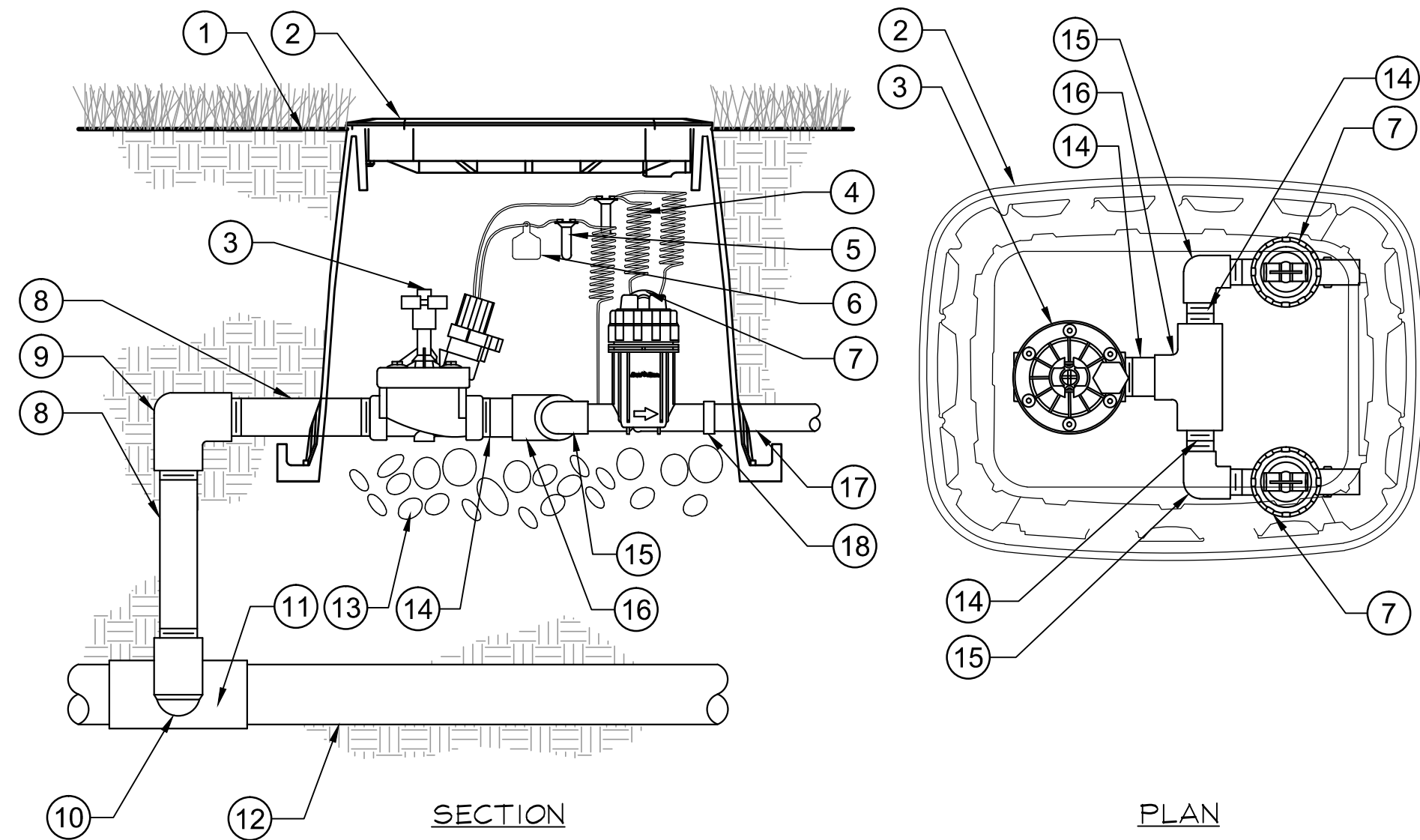
3 TYPICAL TRENCHING  
IR-2B SECTION NTS



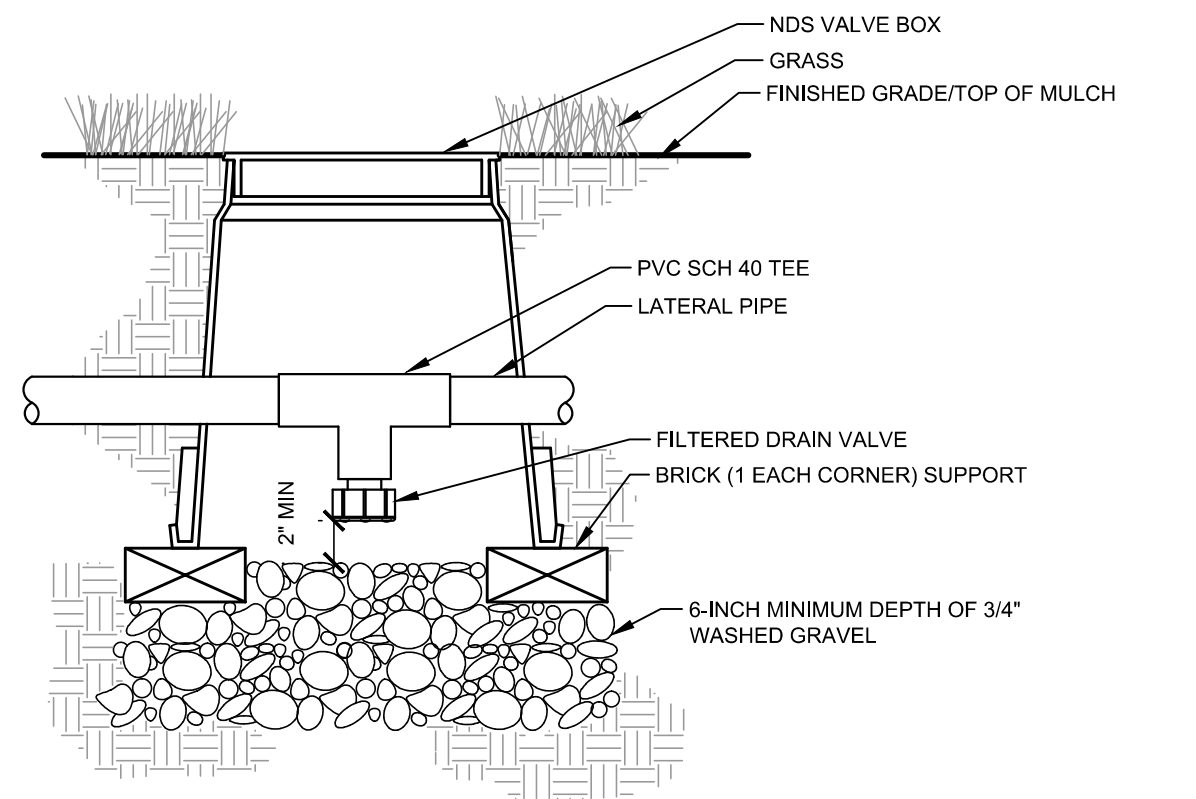
4 TYPICAL SLEEVING  
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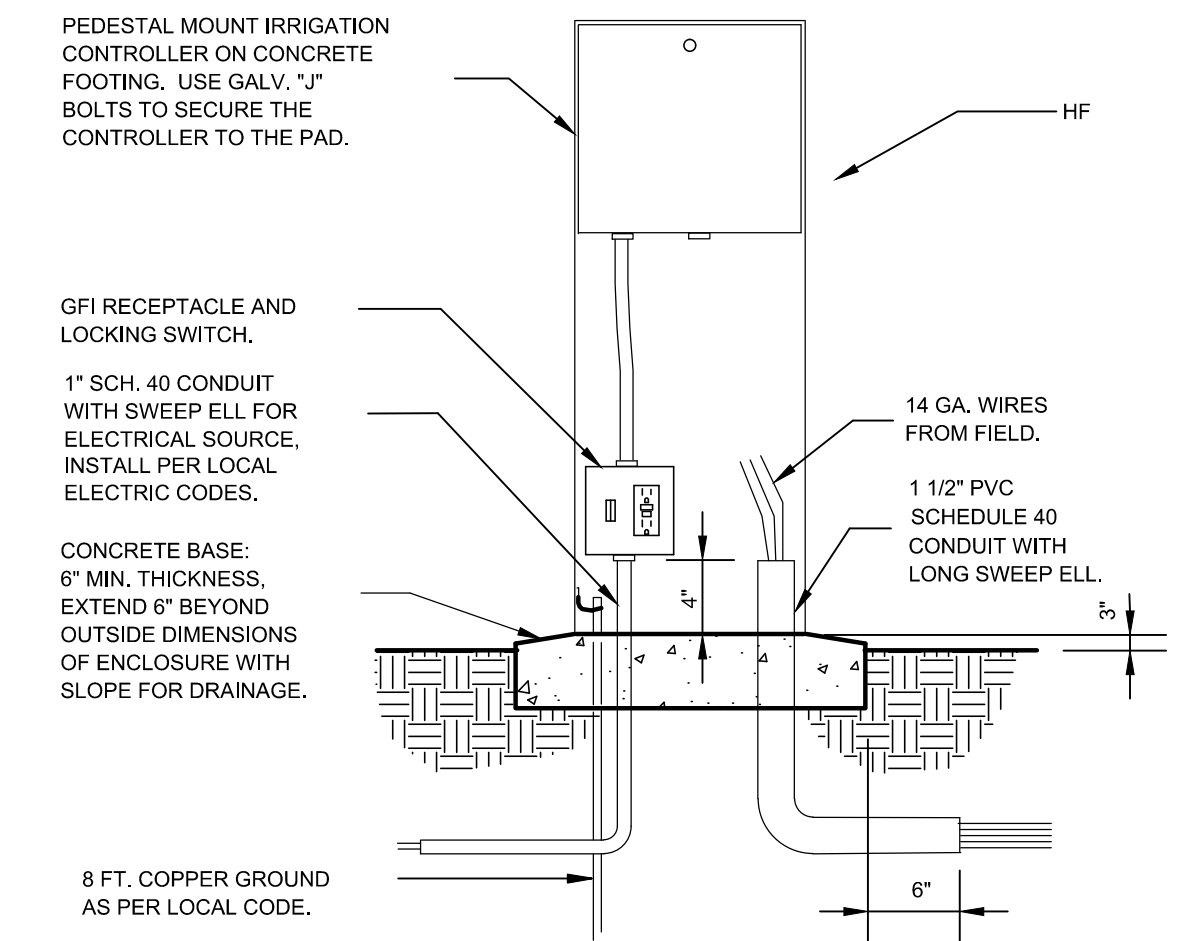
5 TYPICAL THRUST BLOCK  
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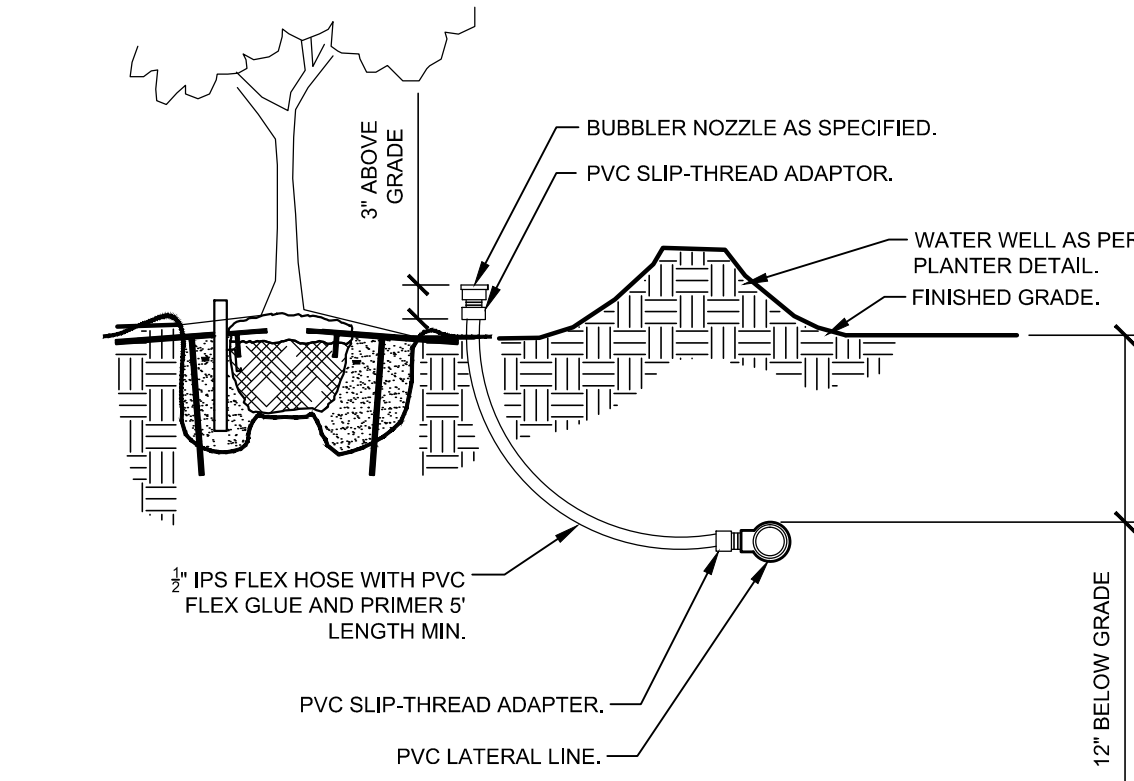
6 DRIP ZONE VALVE KIT  
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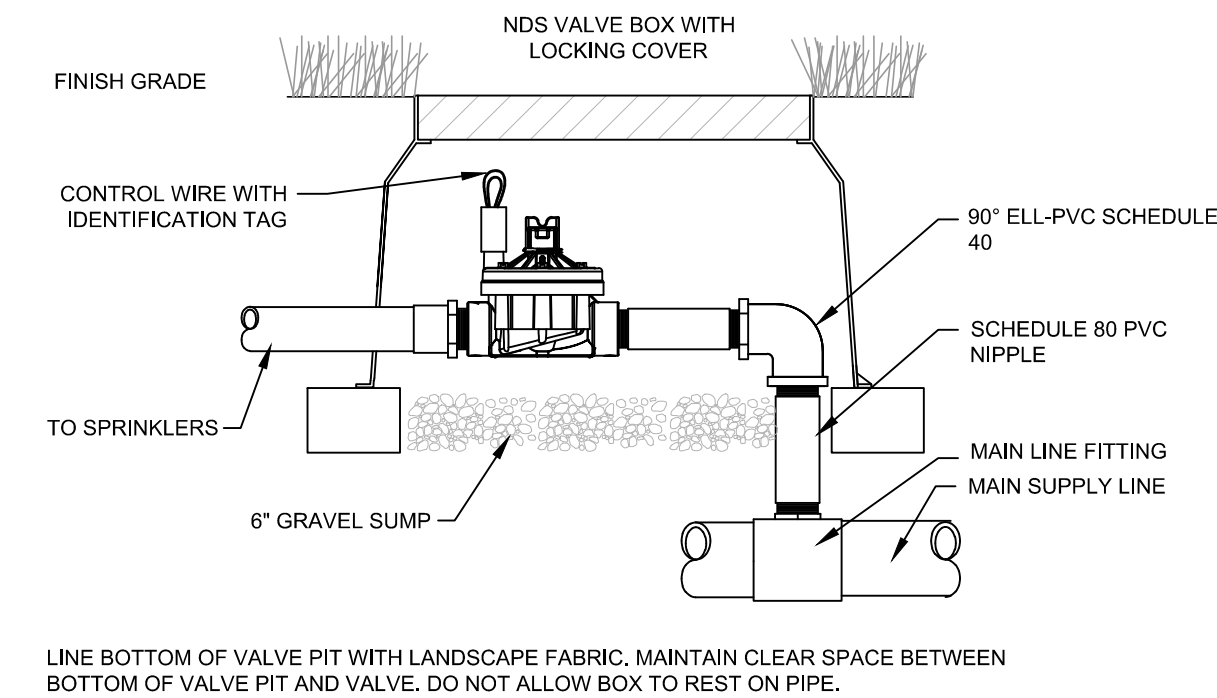
7 TYPICAL DRAIN VALVE  
IR-2B SECTION NTS



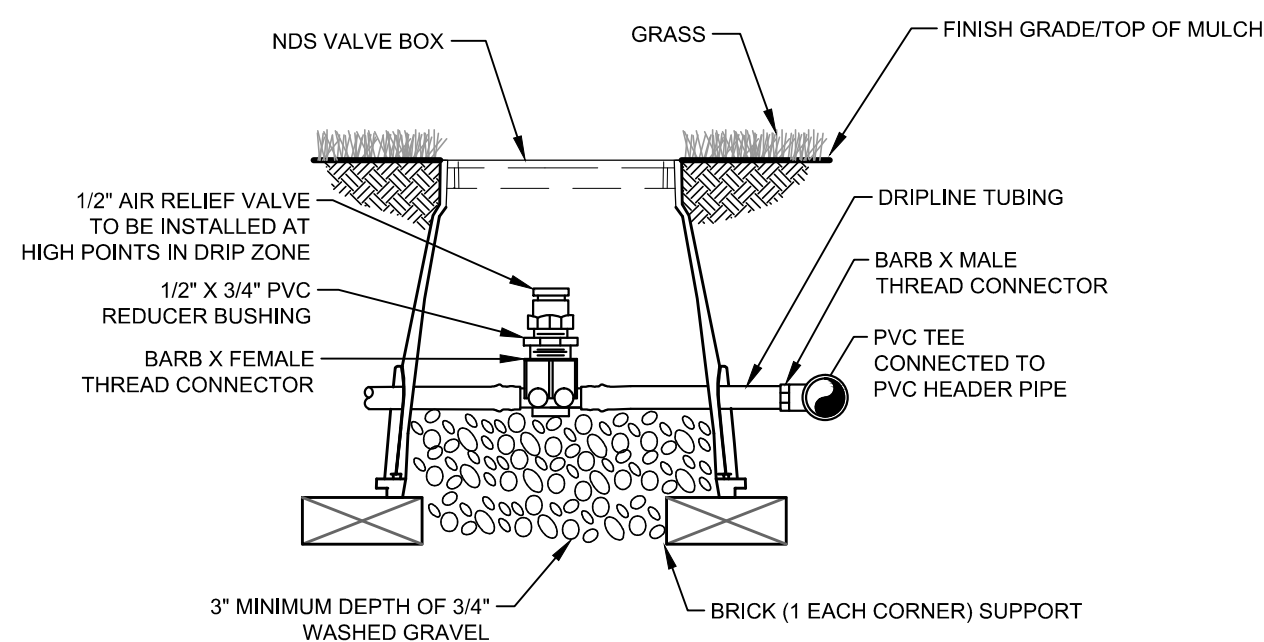
8 IRRIGATION CONTROLLER - PEDESTAL MOUNT  
IR-2B SECTION NTS



9 TYPICAL BUBBLER  
IR-2B SECTION NTS



10 TYPICAL CONTROL VALVE  
IR-2B SECTION NTS



11 AIR RELIEF VALVE IN DRIPLINE  
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**BORDER ROAD INVESTMENTS, LLC**  
CITY OF VENICE FLORIDA

**IRRIGATION DETAILS**

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