







PLANT SCHEDULE

<u>SYMBOL</u>	<u>CODE</u>	<u>QTY</u>	<u>COMMON NAME</u>	<u>BOTANICAL NAME</u>	<u>CONT</u>	<u>CAL</u>	<u>SIZE</u>	<u>DROUGHT TOLERANT</u>
<u>CANOPY TREE</u>								
	AF	6	FLORIDA FLAME RED MAPLE STRAIGHT, SINGLE LEADER, FL#1, FULL	ACER RUBRUM 'FLORIDA FLAME'	FG	3.5" CAL MIN	15' HT., 6" SPR.	YES
	MG	7	SOUTHERN MAGNOLIA STRAIGHT, SINGLE LEADER, FL#1, FULL	MAGNOLIA GRANDIFLORA	FG	3.5" CAL MIN	15' HT., 6" SPR.	YES
	QV	3	LIVE OAK STRAIGHT, SINGLE LEADER, FL #1, FULL	QUERCUS VIRGINIANA	FG	3.5" CAL MIN	15' HT., 6" SPR.	YES






UNDERSTORY TREE

	ED	9	JAPANESE BLUEBERRY TREE STRAIGHT, SINGLE LEADER, 4' C.T., FL. #1	ELAEOCARPUS DECIPiens	FG	3.5" CAL MIN	12' HT., 4' SPR.	YES
	IE	13	EAGLESTON HOLLY STRAIGHT, SINGLE LEADER, FL. #1.	ILEX X ATTENUATA 'EAGLESTON' FULL	FG	2" CAL MIN	8' HT., 4' SPR.	YES
	LM	20	JAVENDER CRAPE MYRTLE STRIGHT, SINGLE LEADER, FULL, FL. #1	LAGERSTROEMIA X 'MUSKOGEE'	FG	2" CAL MIN	8' HT., 4' SPR. MIN	YES

SYMBOL

SHRUBS								
	ID	63	DWARF BURFORD HOLLY FULL	ILEX CORNUTA 'DWARF BURFORD'	-	24" HT	36" OC	YES
	LP	72	PURPLE LOROPETALUM 'RUBRUM' FULL	LOROPETALUM CHINENSE	-	24" HT	36" OC	YES
	MFC	194	COMPACT SIMPSON'S STOPPER FULL TO BASE	MYRCIANTHES FRAGRANS 'COMPACTA'	-	30" FULL	30" OC	YES
	PM	481	PODOCARPUS FULL	PODOCARPUS MACROPHYLLUS	-	36" HT	30" OC	NO
	RA	32	WHITE INDIAN HAWTHORN FULL	RHAPHIOLEPIS INDICA 'ALBA'	-	24" HT	30" OC	YES
	ST	70	TRINETTE VARIEGATED SCHEFFLERA FULL	SCHEFFLERA ARBORICOLA 'TRINETTE'	-	24" FULL	30" OC	YES
	VO	41	DWARF WALTER'S VIBURNUM FULL	VIBURNUM OBOVATUM 'DENSEA'	-	30" HT	36" OC	YES

➤ GROUND COVERS

	AA	157	AFRICAN LILY FULL	AGAPANTHUS AFRICANUS	-	18" FULL	18" OC	YES
	BH	465	STALKED BULBINE FULL	BULBINE FRUTESCENS 'HALLMARK'	-	12" FULL	18" OC	YES
	JB	339	BLUE PACIFIC JUNIPER FULL	JUNIPERUS CONFERTA 'BLUE PACIFIC'	-	12" FULL	18" OC	HIGH
	LB	728	BIG BLUE LILYTURF FULL	LIRIOPE MUSCARI 'BIG BLUE'	-	12" FULL	18" OC	NO
	TA	961	MINIMA JASMINE FULL	TRACHELOSPERMUM ASIATICUM 'MINIMA'	-	12" SPRD MIN	18" OC	YES

→ SOD

	SA	10,913 SF	FLORATAM ST. AUGUSTINE SOD ROLLED TIGHT, 100% DISEASE, WEED, INSECT, AND DEBRIS FREE	-	.	NO
	<u>MISC</u>	<u>QTY</u>	BOTANICAL / COMMON NAME SPECIFICATIONS			

<u>MISC.</u>	<u>QTY.</u>	<u>DESCRIPTION/COMMON NAME</u>	<u>SPECIFICATIONS</u>
MULCH	TBD	EUCALYPTUS MULCH	3" DEPTH MINIMUM, SHREDDED, FREE OF WEEDS/INVASIVE PLANT MATERIAL

NOTE: HEDGE PLANTINGS AND SHRUBS SHALL BE A MINIMUM OF TWO (2) FEET IN HEIGHT IMMEDIATELY UPON PLANTING AND REACH AN AVERAGE HEIGHT OF THIRTY (30) INCHES WITHIN ONE (1) YEAR AFTER PLANTING. MAXIMUM PLANT SPACING SHALL BE THIRTY (30) INCHES ON CENTER, AS MEASURED ALONG THE PERIMETER BOUNDARY OF THE BUFFER.

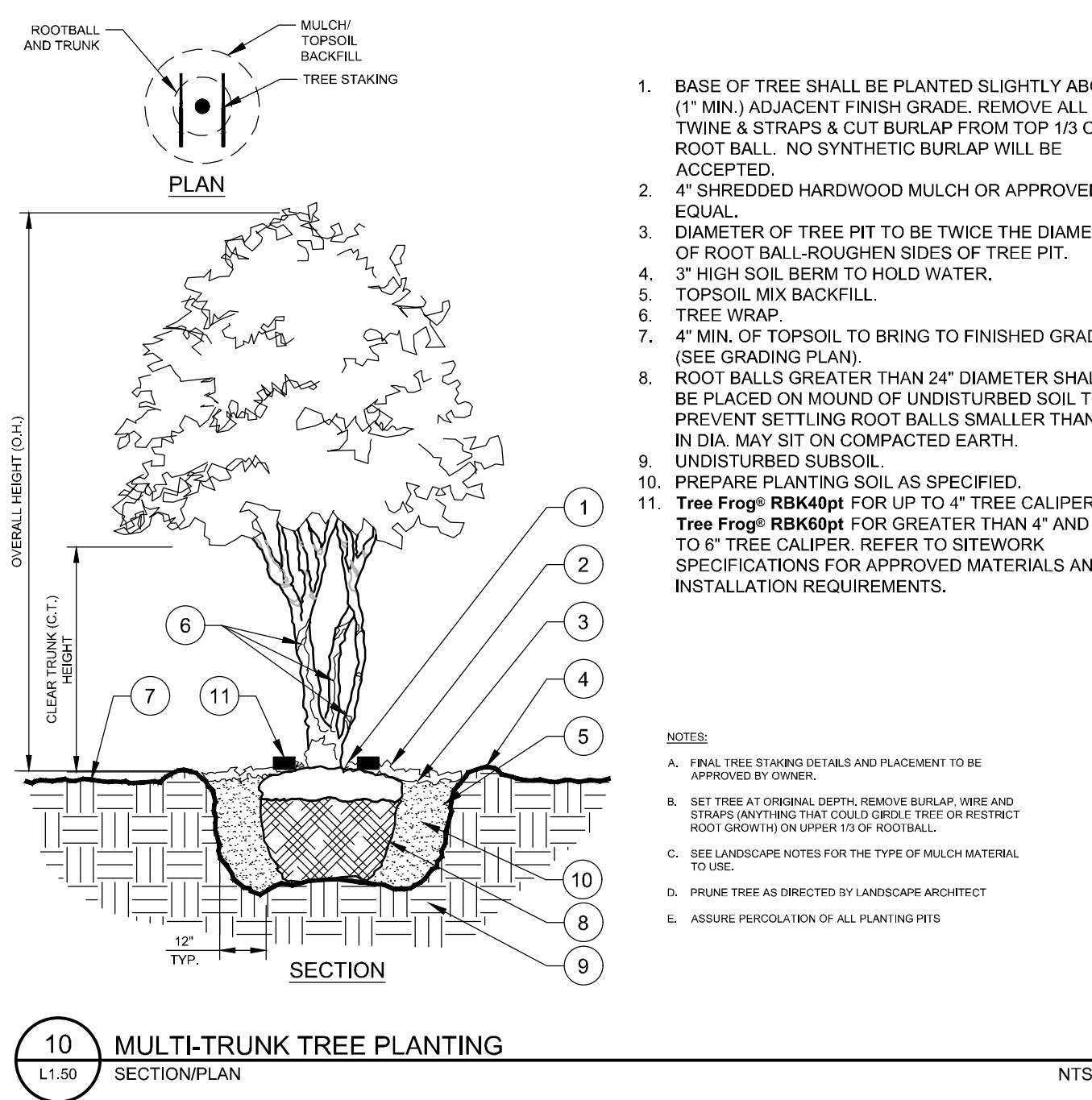
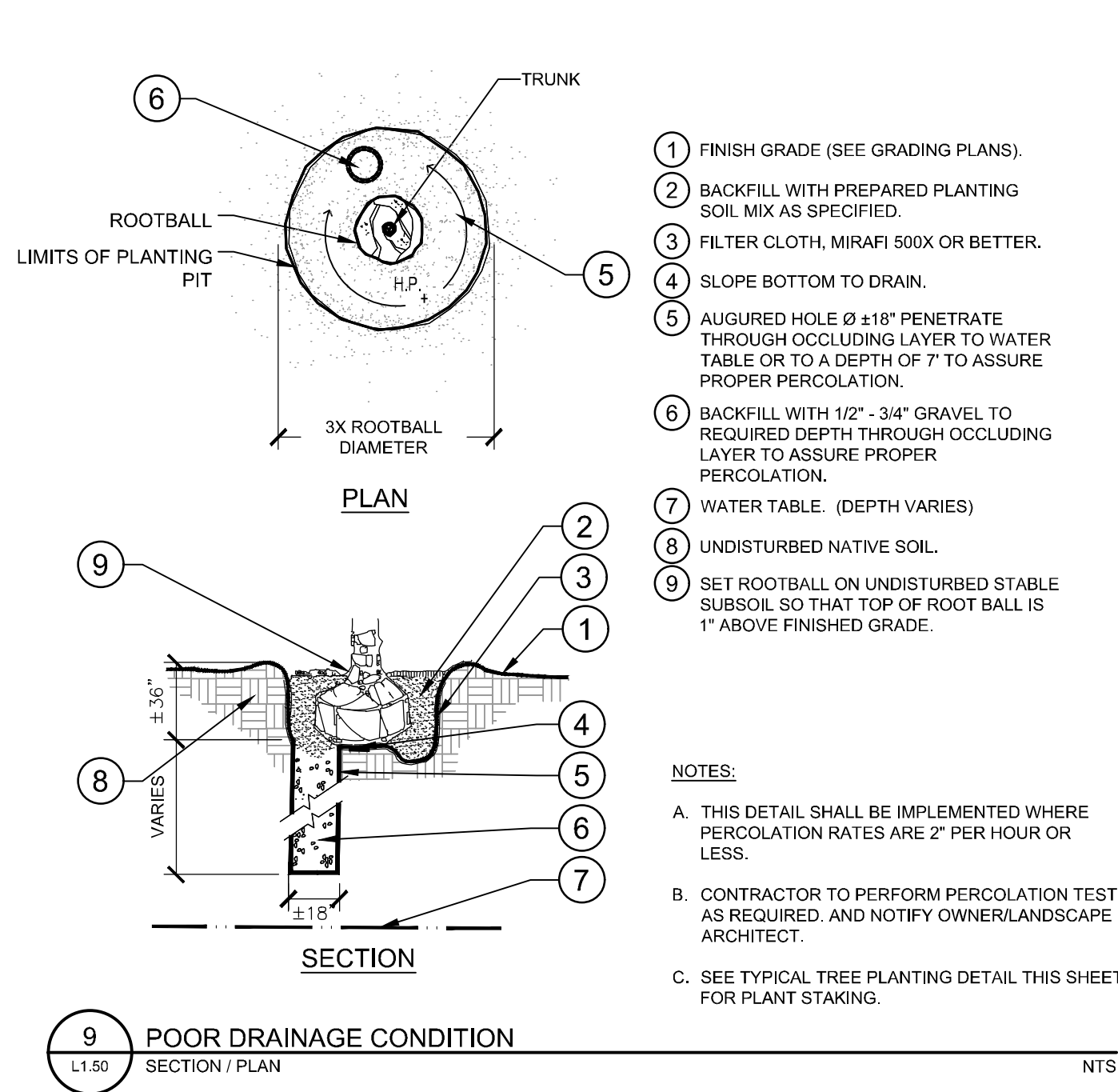
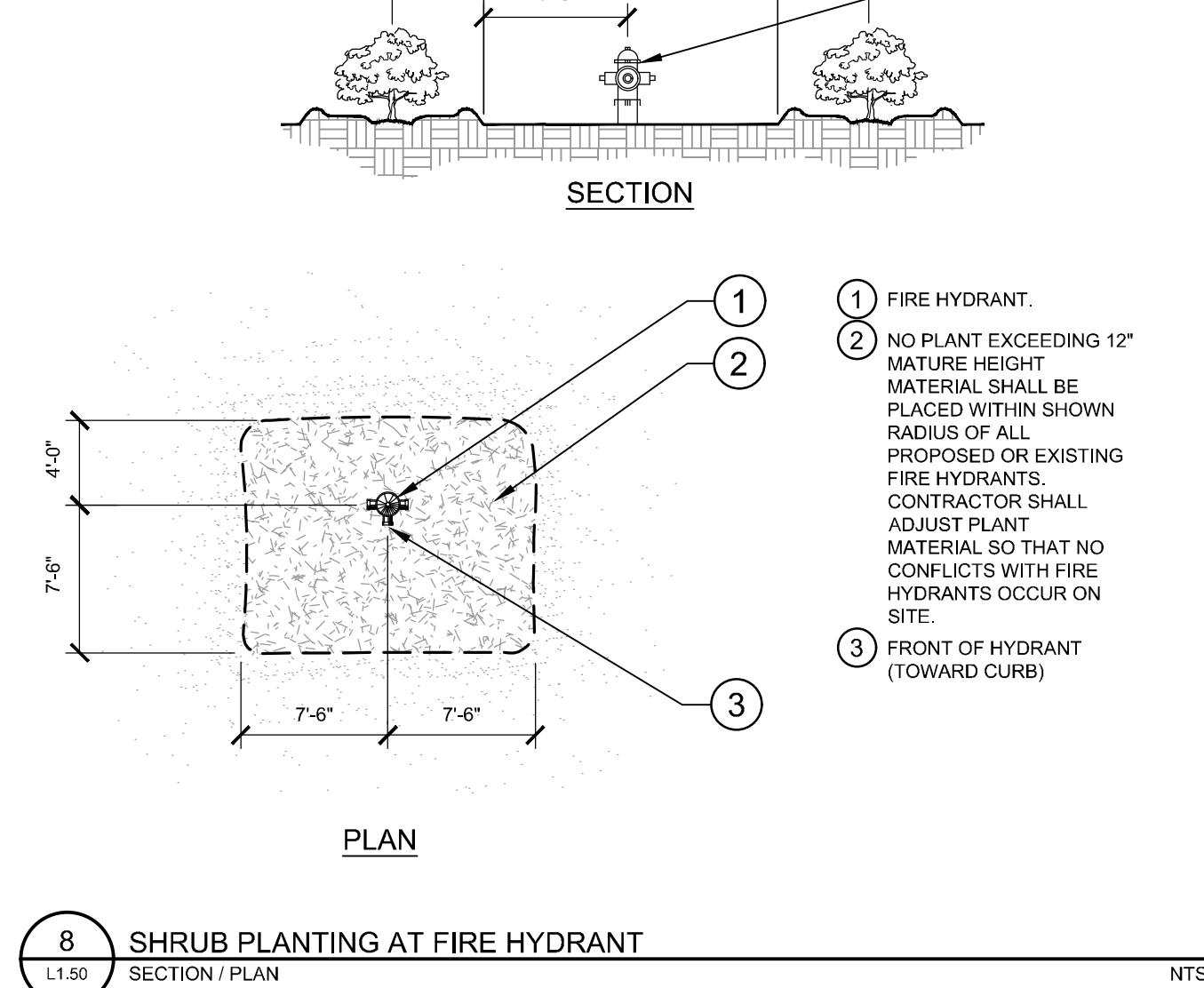
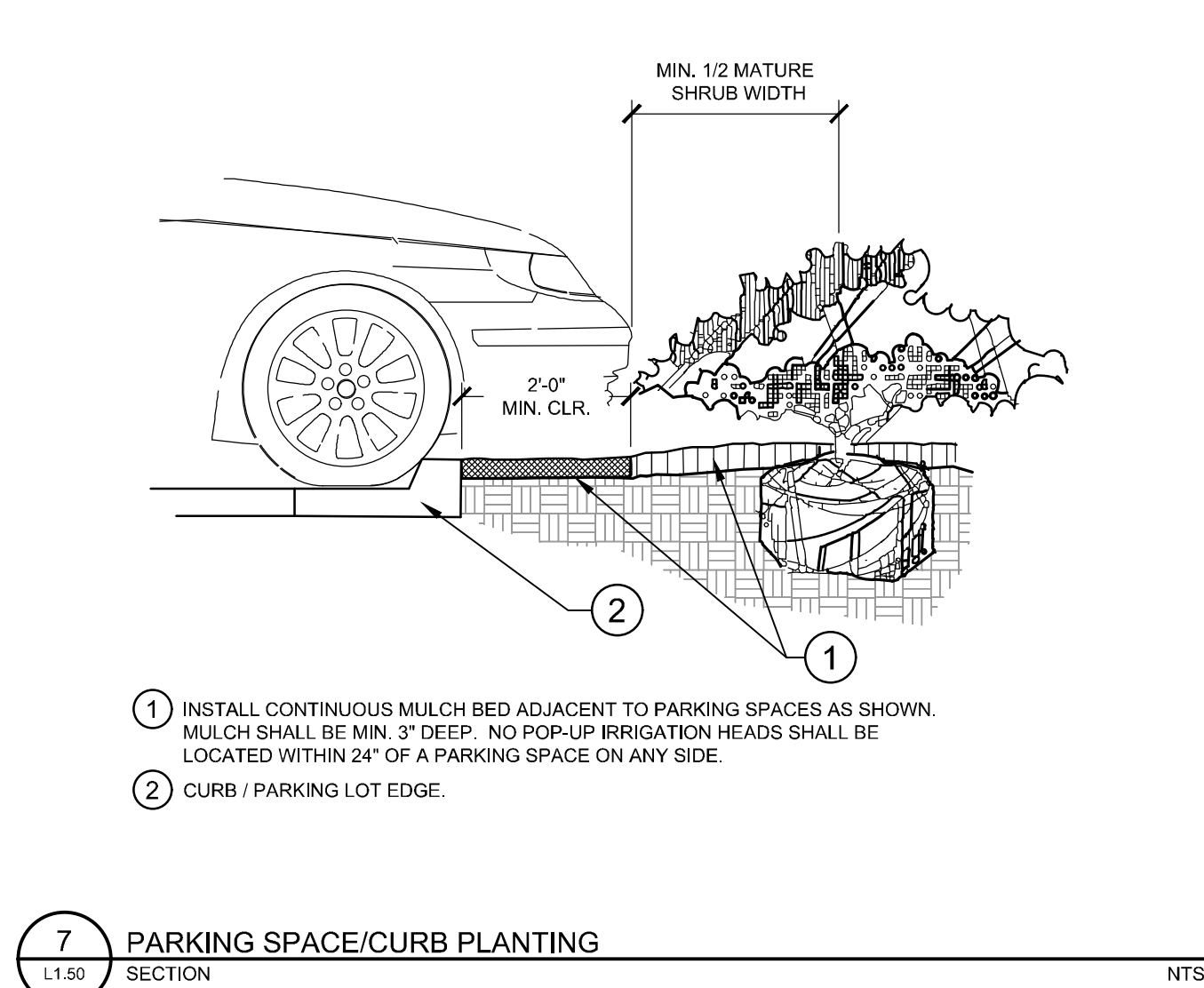
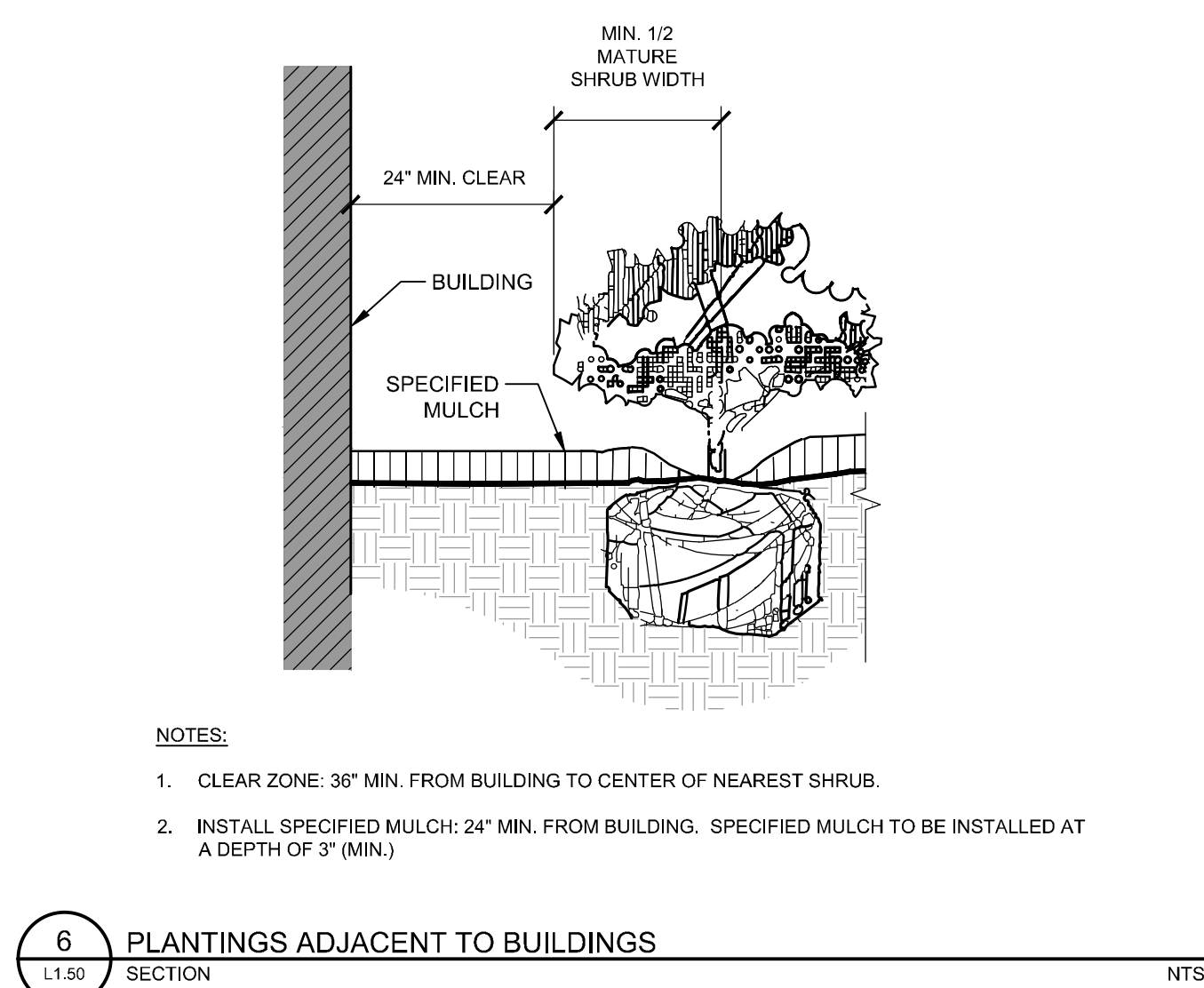
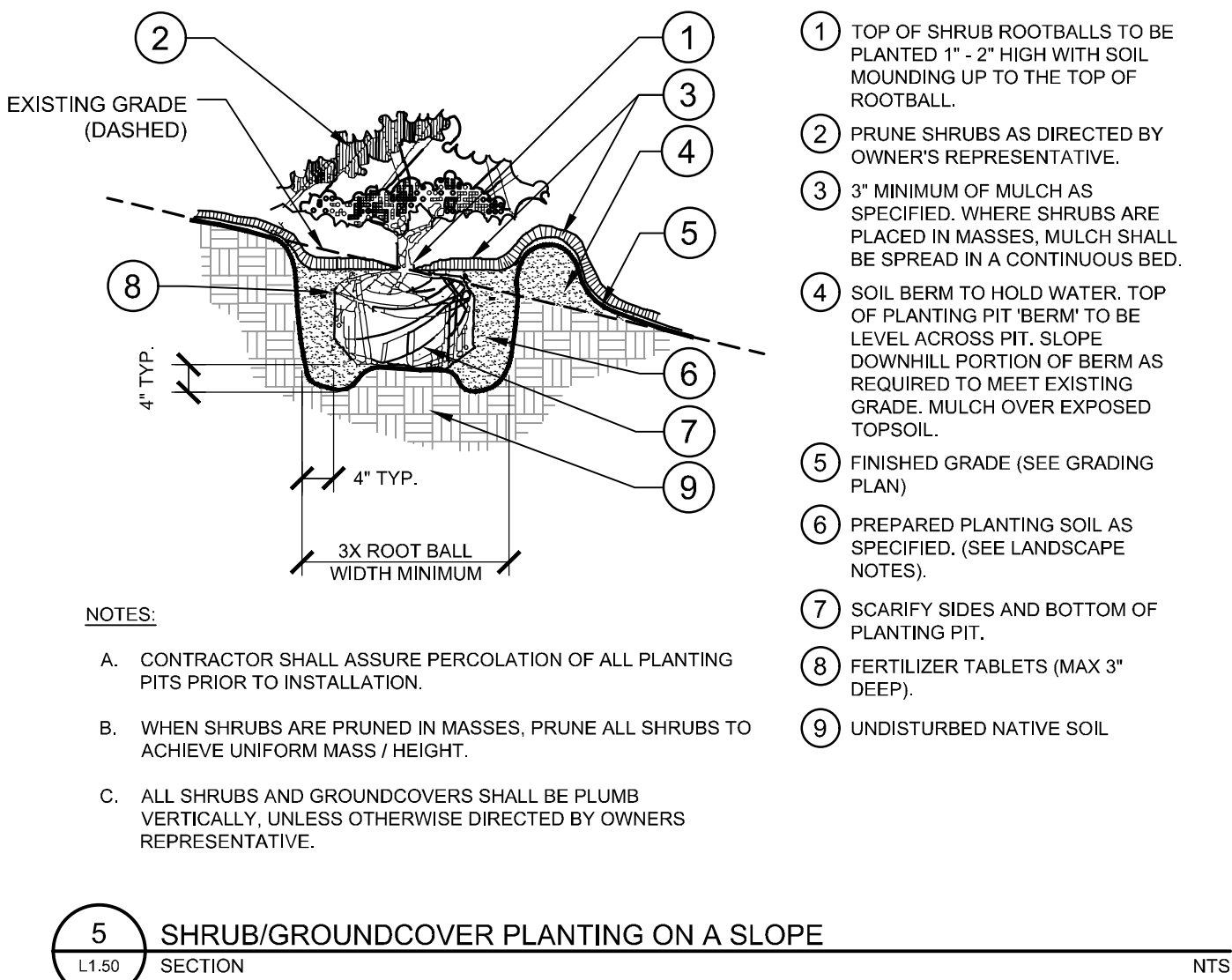
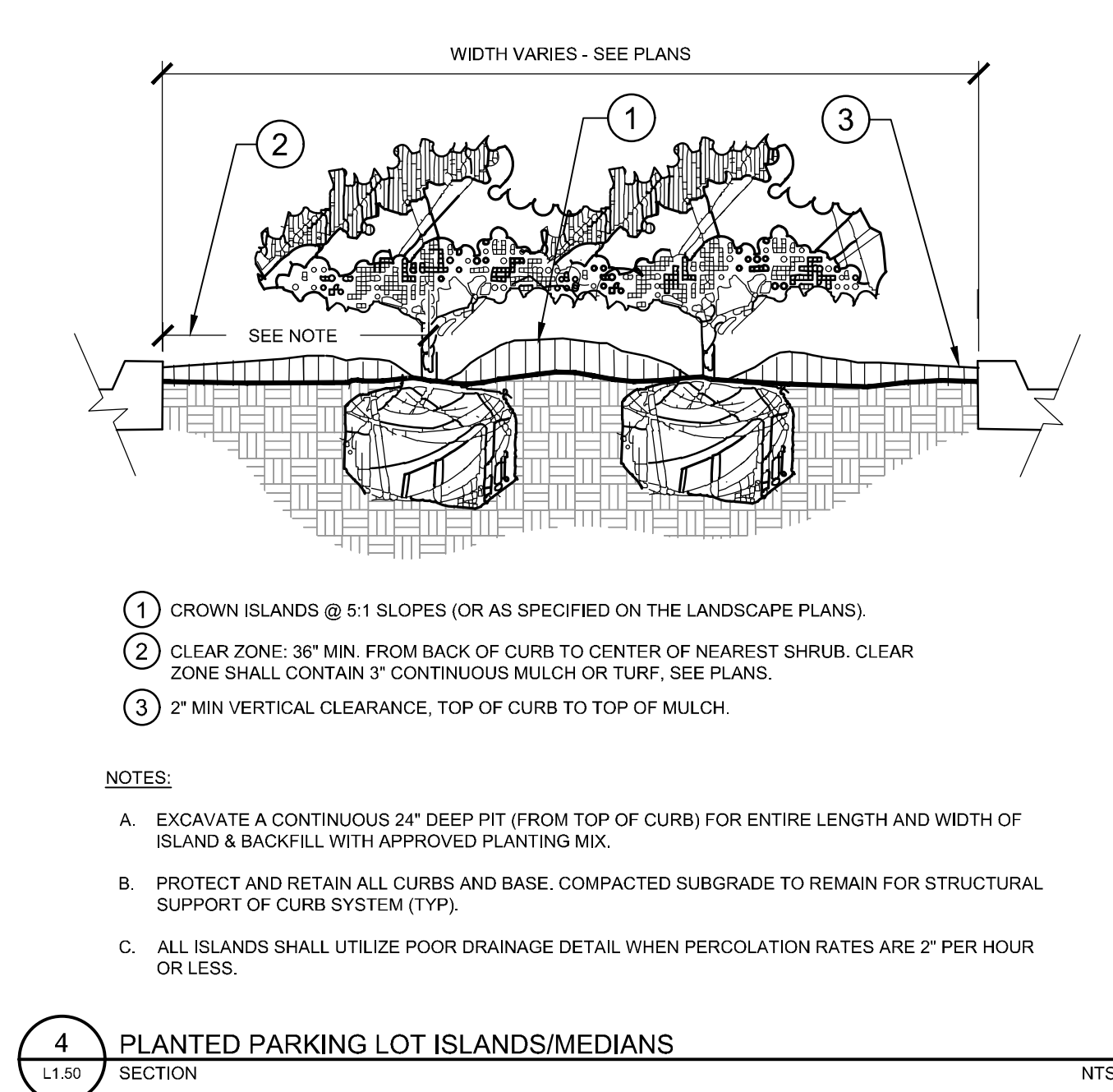
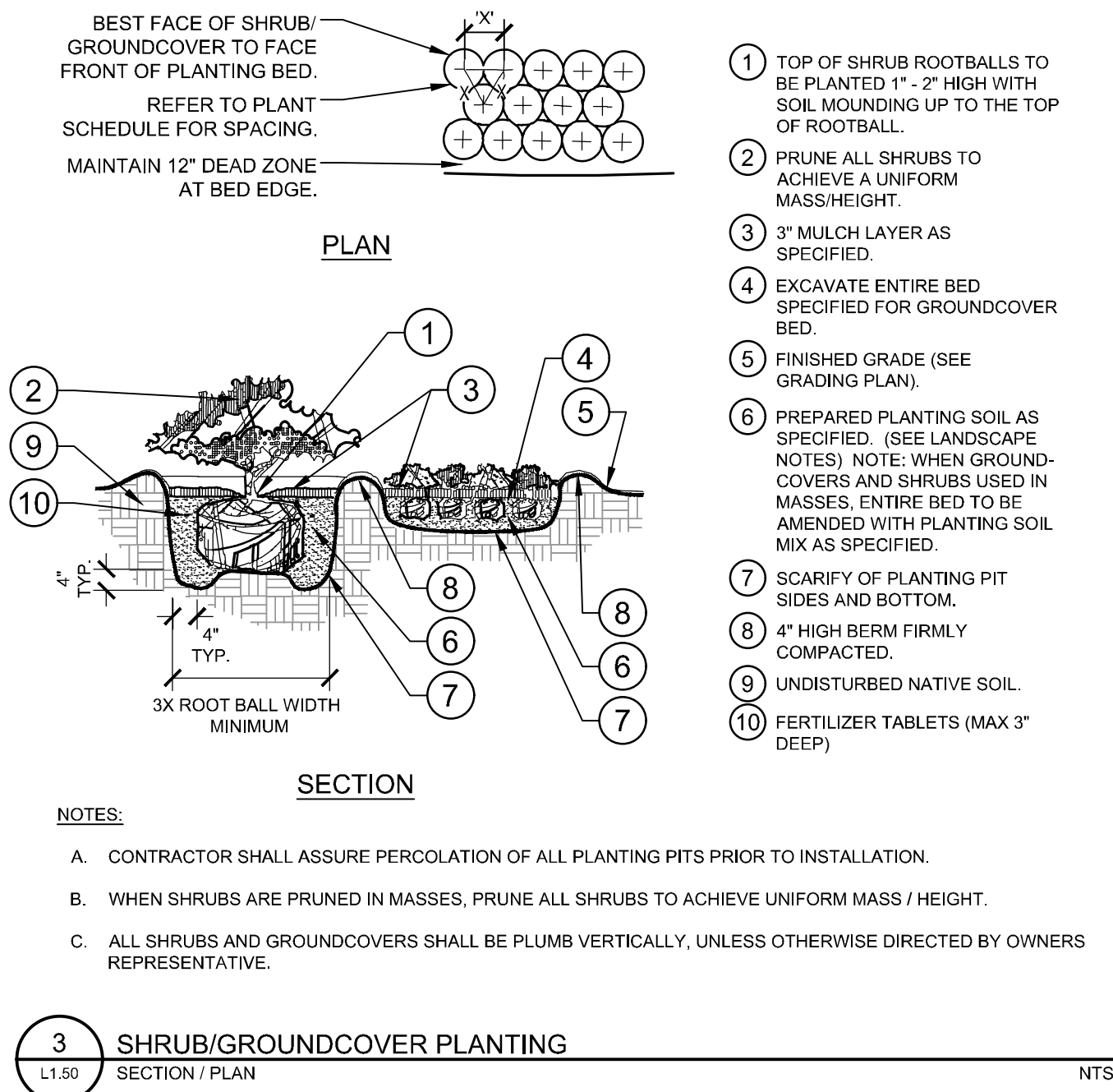
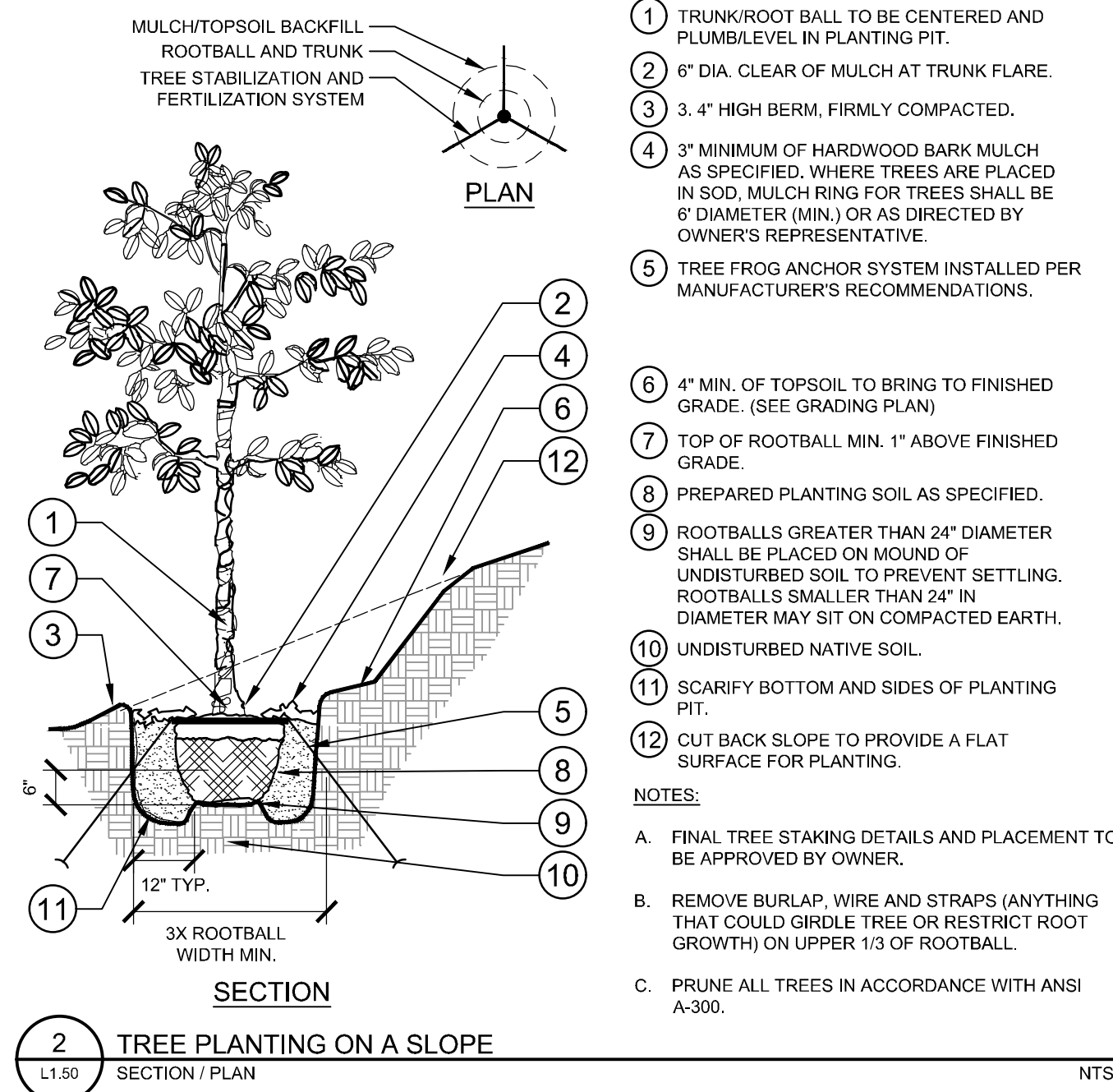
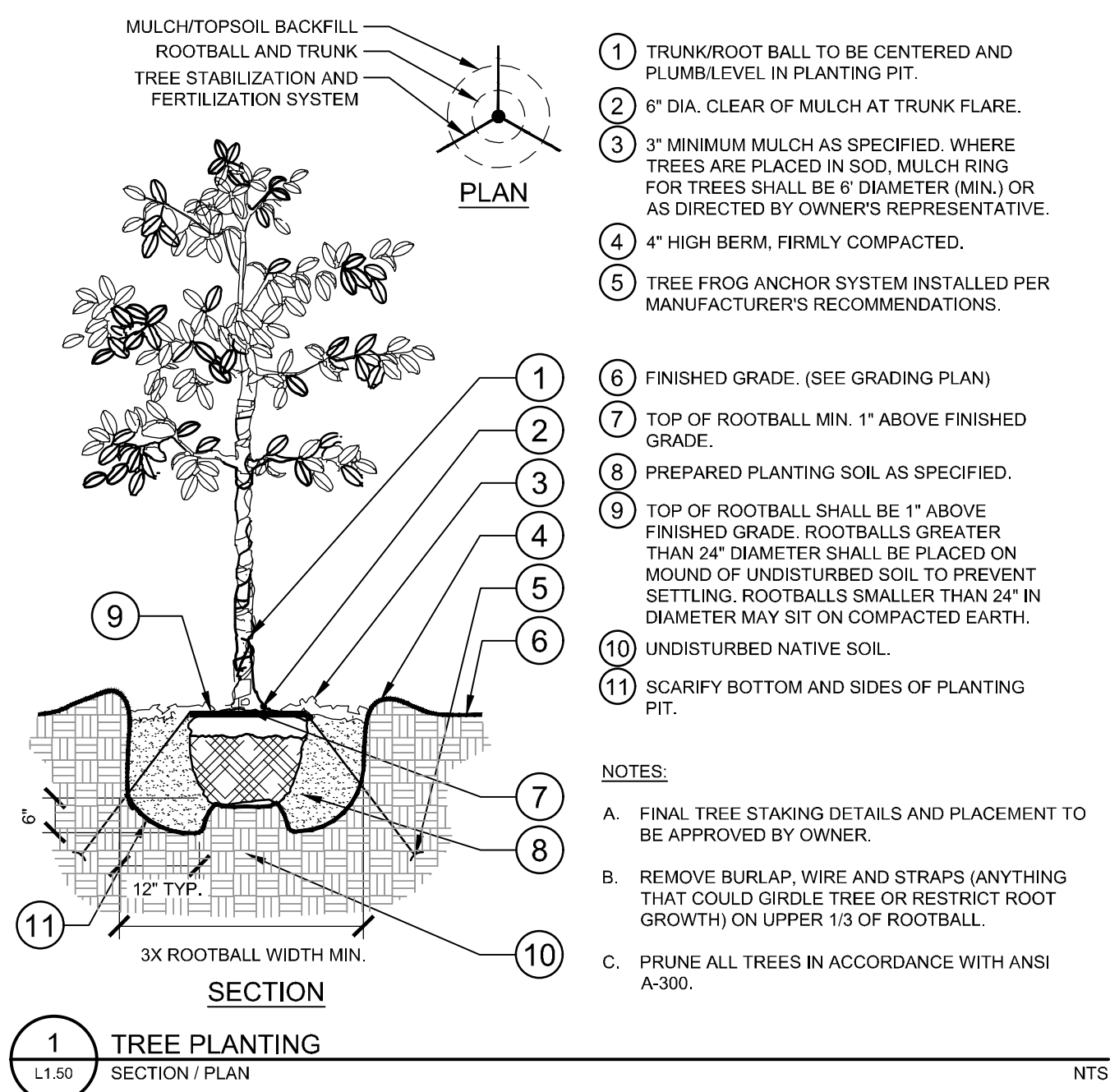
LANDSCAPE NOTES:

1. ALL LANDSCAPE MATERIAL TO BE FLORIDA GRADE #1 OR BETTER QUALITY
2. ALL LANDSCAPED AREAS ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL.
3. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.
4. ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
5. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
6. ALL PLANTING AREAS SHALL BE COMPLETELY MULCHED AS SPECIFIED.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATION OF UTILITY LINES AND ADJACENT TO THE WORK AREA 2) TO PROTECT OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD 3) TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING TO MAINTAIN HEALTHY PLANT CONDITIONS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN FOR THE WARRANTY PERIOD.
11. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
12. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR WARRANTY PERIOD. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS DURING THE NORMAL PLANTING SEASON.
13. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
14. ALL LANDSCAPING SHALL BE INSTALLED ACCORDING TO SOUND NURSERY PRACTICES AND SHALL BE SUBJECT TO THE REVIEW AND APPROVAL GIVEN IN "GRADE AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II," STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
15. ALL INVASIVE / EXOTIC SPECIES AND PROHIBITED TREE SPECIES SHALL BE REMOVED FROM SITE, INCLUDING ROOT TILLS TO THE EXTENT POSSIBLE WITH NO DAMAGE TO ADJACENT EXISTING TREES.
16. ALL LANDSCAPE AREAS WILL BE PROVIDED WITH PERMANENT AUTOMATIC IRRIGATION SYSTEM.
17. TREE SUPPORT MATERIALS ARE TO BE REMOVED FROM EACH TREE ONCE IS ESTABLISHED" (AS APPROVED BY THE LANDSCAPE ARCHITECT).
18. ALL PLANT SPECIFICATIONS IN THE PLANT SCHEDULE SHALL BE CONSIDERED THE MINIMUM ALLOWABLE SPECIFICATIONS. CONTRACTOR SHALL FURNISH PLANT MATERIALS AND UPSIZE AS NECESSARY TO MEET THE MOST STRINGENT SPECIFICATION.

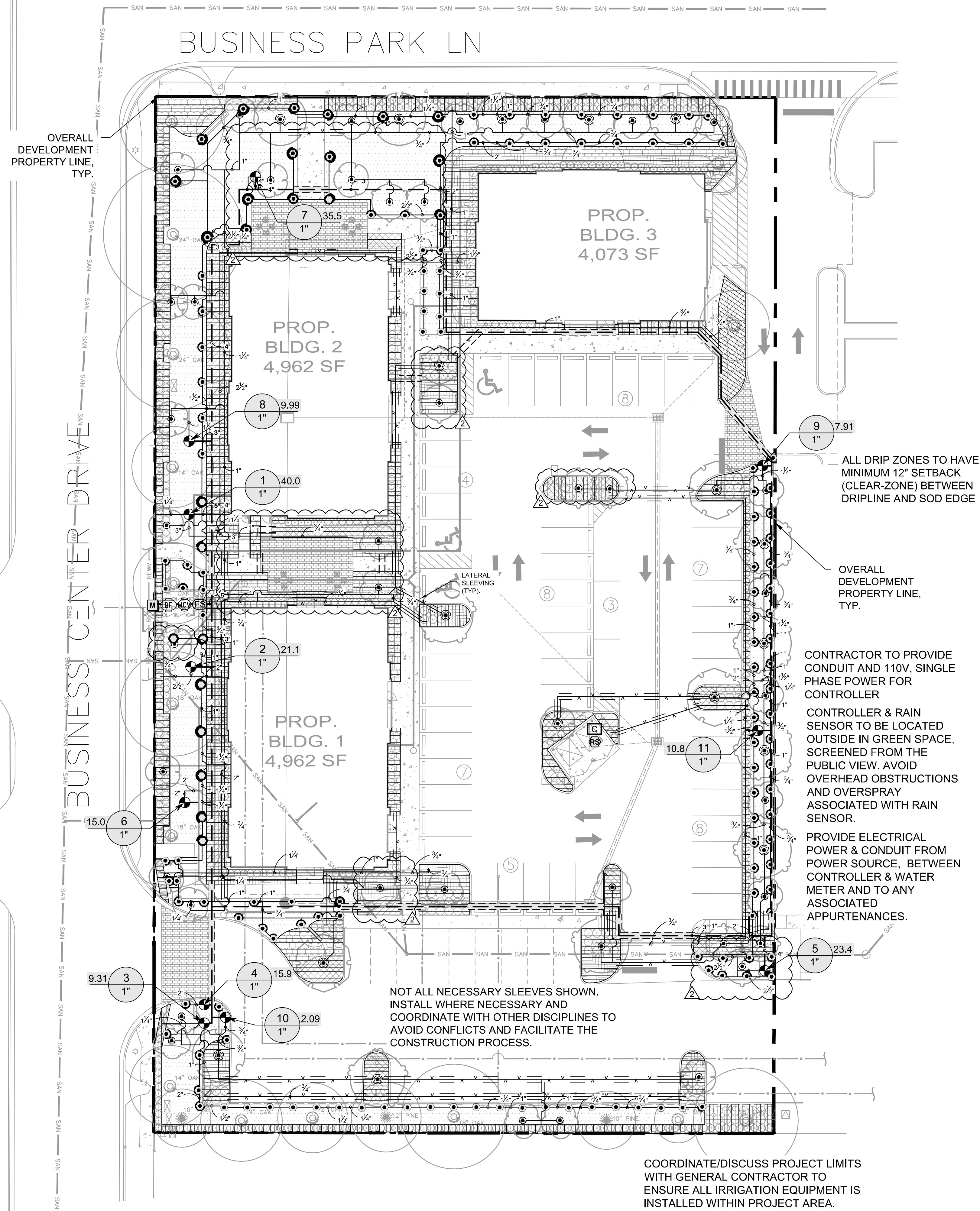
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







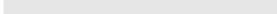


KHA PROJECT 249659000		DATE 12/10/2024	SCALE AS SHOWN	DESIGNED BY JTD	DRAWN BY JTD	CHECKED BY GSW	DATE 5/8/2025
LAKIMLEY»Horn		© 2023 KIMLEY-HORN AND ASSOCIATES, INC. 200 S. ORANGE AVENUE, SUITE 600, ORLANDO, FL 32801 PHONE: 407-898-1511 WWW.KIMLEY-HORN.COM		CITY COMMENTS 03/06/25 JTD		CITY COMMENTS 04/22/25 JTD	
LANDSCAPE DETAILS		FLORIDA		LAKE MARY		SHEET NUMBER L1.50	
LAKE MARY OFFICE BUILDINGS		REVISIONS		DATE		BY	



IRRIGATION SCHEDULE

<u>SYMBOL</u>	<u>MANUFACTURER/MODEL/DESCRIPTION</u>	<u>QTY</u>	<u>PISI</u>
	RAIN BIRD R-VAN14 RD-06-S-P45-F-NP TURY ROTARY, 18FT.-14FT., 45-270 DEGREES AND 360 DEGREES, HAND ADJUSTABLE MULTI-STREAM ROTARY W/IRD1800 TURF SPRAY BODY ON 6IN. POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR, FLOW SHIELD TECH. 1/2IN. NPT FEMALE THREADED INLET, W/ NON-POTABLE PURPLE CAP.	130	30
	RAIN BIRD R-VAN18 RD-06-S-P45-F-NP TURY ROTARY, 13FT.-18FT., 45-270 DEGREES AND 360 DEGREES, HAND ADJUSTABLE MULTI-STREAM ROTARY W/IRD1800 TURF SPRAY BODY ON 6IN. POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR, FLOW SHIELD TECH. 1/2IN. NPT FEMALE THREADED INLET, W/ NON-POTABLE PURPLE CAP.	10	30
	RAIN BIRD R-VAN24 RD-06-S-P45-F-NP TURY ROTARY, 17FT.-24FT., 45-270 DEGREES AND 360 DEGREES, HAND ADJUSTABLE MULTI-STREAM ROTARY W/IRD1800 TURF SPRAY BODY ON 6IN. POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR, FLOW SHIELD TECH. 1/2IN. NPT FEMALE THREADED INLET, W/ NON-POTABLE PURPLE CAP.	16	30
<u>SYMBOL</u>	<u>MANUFACTURER/MODEL/DESCRIPTION</u>	<u>QTY</u>	
	RAIN BIRD XDPDE-09-12 DRIP RING	17	
	RAIN BIRD XDPDE-09-12 DRIP RING (ORNAMENTAL)	41	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD PESBR-PRS-D 1IN, 1-1/2IN, AND 2IN, DURABLE CHLORINE-RESISTANT VALVES FOR RECLAIMED WATER APPLICATIONS, WITH SCRUBBER MECHANISM TECHNOLOGY, PURPLE FLOW CONTROL HANDLE, AND PRESSURE REGULATOR MODULE.	11
	RAIN BIRD PESBR-PRS-D 1" 1", 1-1/2", 2" DURABLE CHLORINE-RESISTANT VALVES FOR RECLAIMED WATER APPLICATIONS, WITH SCRUBBER MECHANISM TECHNOLOGY, PURPLE FLOW CONTROL HANDLE, AND PRESSURE REGULATOR MODULE.	1
	FEBCO 825Y 3/4" REDUCED PRESSURE BACKFLOW PREVENTER	1
	RAIN BIRD ESP-2WIRE (120VAC) 50 STATION 2-WIRE, INDOOR/ OUTDOOR CONTROLLER W/ DECODER AUTO ADDRESS: FOR RESIDENTIAL OR LIGHT COMMERCIAL USE. LINK WIRE MODULE AND FLOW SENSOR READY. USE WITH 2W-1 SINGLE STATION DECODERS AND STANDARD DIRECT BURIAL WIRE.	1
	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.	1
	RAIN BIRD FS-200-P 2" FLOW SENSOR FOR USE WITH RAIN BIRD MAXICOM, SITECONTROL, AND ESP-LXDC CENTRAL CONTROL SYSTEMS. PLASTIC (PVC) MODEL SUGGESTED OPERATING RANGE OF 10.0 GPM TO 200 GPM. SENSORS SHOULD BE SIZED FOR FLOW RATHER THAN PIPE SIZE.	1
	WATER METER 1-1/2" RECLAIMED	1
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	4,666 LF
	IRRIGATION MAINLINE: PVC SCHEDULE 40	1,012 LF
	PIPE SLEEVE: PVC CLASS 200 TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVE MATERIAL. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.	833.3 LF
	PIPE SLEEVE: PVC SCHEDULE 40 - LATERALS	39.2 LF
	PIPE SLEEVE: PVC SCHEDULE 40 - MAINLINE	207.9 LF

Valve Callout

Valve Number

Valve Flow

Valve Size

THIS IRRIGATION PLAN IS DESIGNED TO THE FOLLOWING STATS: 65 PSI AND 120 GPM. IF THE WATER PRESSURE DOES NOT MEET THESE DESIGN SPECIFICATIONS A BOOSTER PUMP WILL BE REQUIRED AT A COST TO THE CONTRACTOR. CONTRACTOR TO VERIFY AVAILABLE WATER PRESSURE AND CONTACT THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION IF A SYSTEM HAS +/- 5 PSI THAN DESIGN PRESSURE.

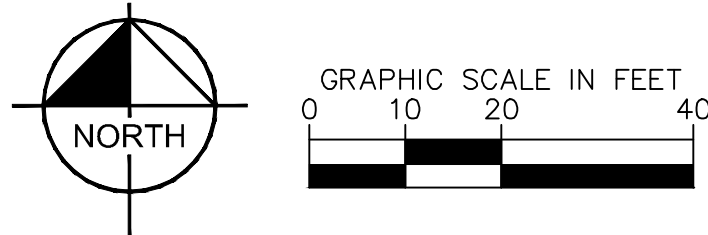
NOTE: IF SOURCE TO BE RECLAIMED (NON-POTABLE) ALL EQUIPMENT TO BE INDICATED AS SUCH AND PURPLE IN COLOR. FOLLOW ALL LOCAL JURISDICTION STANDARDS FOR RECLAIMED IRRIGATION SYSTEMS.

FLOW TOTALS	
Area for Dripline:	81.6
Drip Ring:	21.7
Turf Rotary:	89.9
Total:	193.2 GPM

FLOW AVAILABLE	
Area for Dripline:	75 GPM
Drip Ring:	2 Valves
Turf Rotary:	1 Valves
Total:	2 Valves
	5 Valves

IRRIGATION NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, ETC. PRIOR TO BEGINNING WORK.
2. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANS OR SPECIFICATIONS PRIOR TO BEGINNING OR CONTINUING WORK.
3. THE CONTRACTOR SHALL MAKE NO SUBSTITUTIONS, DELETIONS, OR ADDITIONS TO THIS PLAN WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT.
4. ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS.
5. THIS PLAN IS SCHEMATIC AND DUE TO THE NATURE OF CONSTRUCTION SLIGHT FIELD MODIFICATIONS MAY BE NECESSARY TO IMPLEMENT PLAN.
6. CONTRACTOR TO VERIFY ACTUAL AVAILABLE WATER PRESSURE BEFORE BEGINNING INSTALLATION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF AVAILABLE WATER PRESSURE WILL NOT ALLOW SYSTEM MODIFICATION TO BE POSSIBLE.
7. IRRIGATION SYSTEMS CONNECTED TO POTABLE WATER SUPPLY, SHALL HAVE A BACKFLOW PREVENTER INSTALLED.
8. WHERE APPLICABLE IRRIGATION HEADS ARE TO BE ADJUSTED FOR COMPLETE COVERAGE WITH MINIMUM OVER SPRAY BEYOND LANDSCAPE AREAS.
9. EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITHIN THE CRITICAL ROOT ZONE OF ANY TREE.
10. ALL IRRIGATION SLEEVING TO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVES.
11. IRRIGATION CONTRACTOR SHALL REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH OWNER'S REPRESENTATIVE.
12. ALL PLANT MATERIAL IN TREE HOLDING AREAS SHALL BE MANUALLY WATERED/IRRIGATED TO KEEP MOIST UNTIL PLANTED.
13. CONTRACTOR TO PROVIDE PERMANENT BENCH-MARKS ON ALL CURB LINES AT RELATED SLEEVE LOCATIONS (TYP).
14. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED TO MINIMIZE ROOT DISTURBANCE IN EXISTING TREES.
15. IRRIGATION SPRAYS AND ROTORS ARE NOT COMBINED ON THE SAME CONTROL VALVE CIRCUIT - LANDSCAPE BEDS AND TURF ON SEPARATE CIRCUITS.
16. MATCH PRECIPITATION RATES WITH ANY HEADS THAT ARE REPLACED.

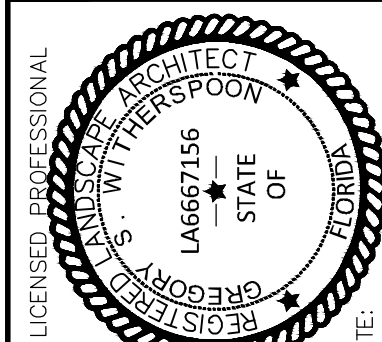


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KHA PROJECT 249659000	DATE 12/10/2024	SCALE AS SHOWN	DESIGNED BY JTD	DRAWN BY JTD	CHECKED BY GSW
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OVERALL IRRIGATION PLAN






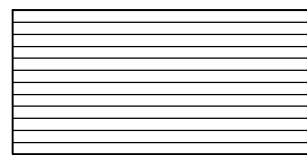







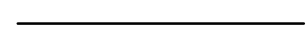

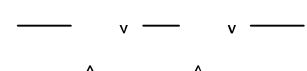
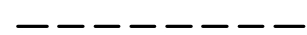

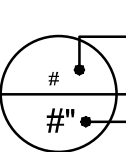
LAKE MARY OFFICE BUILDINGS

LAKE MARY
FLORIDA

SHEET NUMBER
L2.00

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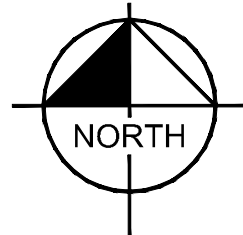
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
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SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	RAIN BIRD XFDEP-09-12 DRIP RING	17	
	RAIN BIRD XFDEP-09-12 DRIP RING (ORNAMENTAL)	41	
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFD-04-12-NP XFD ON-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE, 0.4 GPM EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN, UV RESISTANT. SPECIFY XF INSERT FITTINGS.	12,179 LF	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	RAIN BIRD PESBR-PRS-D 1IN., 1-1/2IN., AND 2IN., DURABLE CHLORINE-RESISTANT VALVES FOR RECLAIMED WATER APPLICATIONS, WITH SCRUBBER MECHANISM TECHNOLOGY, PURPLE FLOW CONTROL HANDLE, AND PRESSURE REGULATOR MODULE.	11	
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	FERCO 825V 3/4" REDUCED PRESSURE BACKFLOW PREVENTER	1	
	RAIN BIRD ESP-2WIRE (120VAC) 50 STATION 2-WIRE, INDOOR/ OUTDOOR CONTROLLER W/ DECODER AUTO-ADDRESS, FOR RESIDENTIAL OR LIGHT COMMERCIAL USE, LNK WIFI MODULE AND FLOW SENSOR READY, USE WITH 2W-1 SINGLE STATION DECODERS AND STANDARD DIRECT BURIAL WIRE.	1	
	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.	1	
	RAIN BIRD FS-200-P 2" FLOW SENSOR FOR USE WITH RAIN BIRD MAXICOM, SITECONTROL, AND ESP-LXD CENTRAL CONTROL SYSTEMS. PLASTIC (PVC) MODEL, SUGGESTED OPERATING RANGE OF 10.0 GPM TO 200.0 GPM. SENSORS SHOULD BE SIZED FOR FLOW RATHER THAN PIPE SIZE.	1	
	WATER METER 1-1/2" RECLAIMED	1	
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	4,666 LF	
	IRRIGATION MAINLINE: PVC SCHEDULE 40	1,012 LF	
	PIPE SLEEVE: PVC CLASS 200 TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.	833.3 LF	
	PIPE SLEEVE: PVC SCHEDULE 40 - LATERALS	39.2 LF	
	PIPE SLEEVE: PVC SCHEDULE 40 - MAINLINE	207.9 LF	
	Valve Callout Valve Number Valve Flow Valve Size		
FLOW TOTALS Area for Dripline: 81.6 Drip Ring: 21.7 Turf Rotary: 89.9 Total: 193.2 GPM			
FLOW AVAILABLE Area for Dripline: 75 GPM 2 Valves Drip Ring: 1 Valves Turf Rotary: 2 Valves Total: 5 Valves			

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	RAIN BIRD PESBR-PRS-D	1"	AREA FOR DRIPLINE	39.97	479.5	21.0	39.3	0.64 in/h
2	RAIN BIRD PESBR-PRS-D	1"	AREA FOR DRIPLINE	21.08	426.2	14.0	28.1	0.64 in/h
3	RAIN BIRD PESBR-PRS-D	1"	AREA FOR DRIPLINE	9.31	379.4	12.7	25.2	0.64 in/h
4	RAIN BIRD PESBR-PRS-D	1"	TURF ROTARY	15.88	373.1	33.3	46.7	0.51 in/h
5	RAIN BIRD PESBR-PRS-D	1"	TURF ROTARY	23.44	148.1	34.6	49.3	1.41 in/h
6	RAIN BIRD PESBR-PRS-D	1"	TURF ROTARY	15.01	381.6	33.0	46.3	0.64 in/h
7	RAIN BIRD PESBR-PRS-D	1"	TURF ROTARY	35.55	415.7	39.3	57	0.53 in/h
8	RAIN BIRD PESBR-PRS-D	1"	DRIP RING	9.99	504.7	13.3	25.8	0.85 in/h
9	RAIN BIRD PESBR-PRS-D	1"	DRIP RING	7.91	157.2	12.6	25.2	0.86 in/h
10	RAIN BIRD PESBR-PRS-D	1"	DRIP RING	2.09	379.4	12.3	23.4	0.81 in/h
11	RAIN BIRD PESBR-PRS-D Common Wire	1"	AREA FOR DRIPLINE	10.83	62.8	13.0	25.7	0.64 in/h
					1,012			

CRITICAL ANALYSIS

Generated:	2025-05-08 14:28
P.O.C. NUMBER: 01	RECLAIMED
Water Source Information:	
FLOW AVAILABLE	1-1/2"
Water Meter Size:	75 GPM
Flow Available:	
PRESSURE AVAILABLE	65 PSI
Static Pressure at POC:	1.00 ft
Elevation Change:	3"
Service Line Size:	3"
Length of Service Line:	5 ft
Pressure Available:	65 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	39.97 GPM
Flow Available at POC:	75 GPM
Residual Flow Available:	35.03 GPM
Critical Station:	7
Design Pressure:	30 PSI
Friction Loss:	1.11 PSI
Fittings Loss:	0.11 PSI
Elevation Loss:	0 PSI
Loss through Valve:	8.04 PSI
Pressure Req. at Critical Station:	39.3 PSI
Loss for Fittings:	0.01 PSI
Loss for Main Line:	0.05 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	15 PSI
Loss for Water Meter:	2.68 PSI
Critical Station Pressure at POC:	57.0 PSI
Pressure Available:	65 PSI
Residual Pressure Available:	6.0 PSI



LAKE MARY OFFICE BUILDINGS

BUILDINGS

FLORIDA

LAKE MARY

SHEET NUMBER

L2.01

IRRIGATION SCHEDULES

KHA PROJECT

249659000

DATE

12/10/2024

SCALE

AS SHOWN

DESIGNED BY

JTD

DRAWN BY

JTD

CHECKED BY

GSW

DATE

5/8/2025

LICENSED PROFESSIONAL

ARCHITECT

REGISTERED

FLORIDA

LA6667156

STATE OF

FLORIDA

REGISTERED

ARCHITECT

W. J. HENRISON

Kimley»Horn

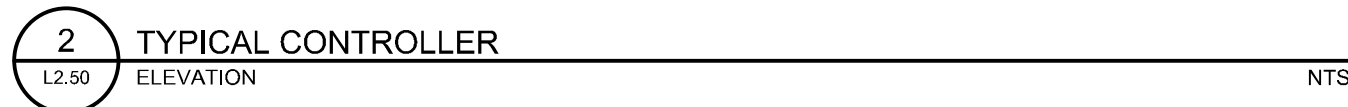
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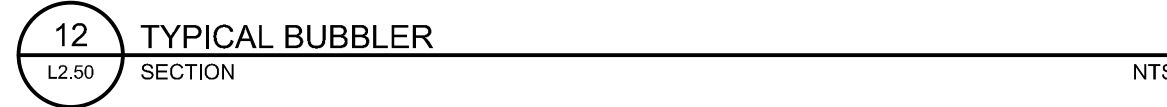
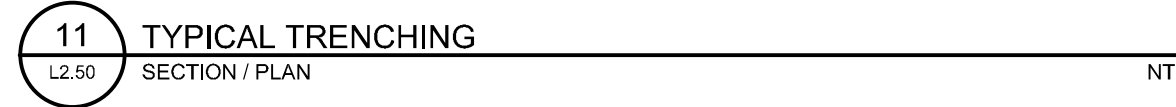
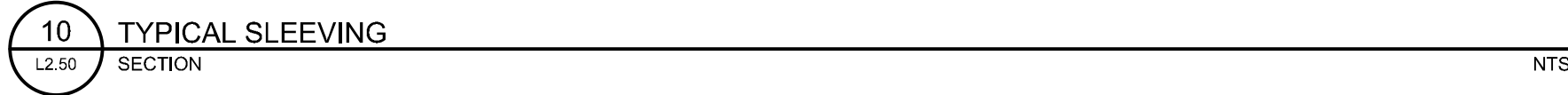
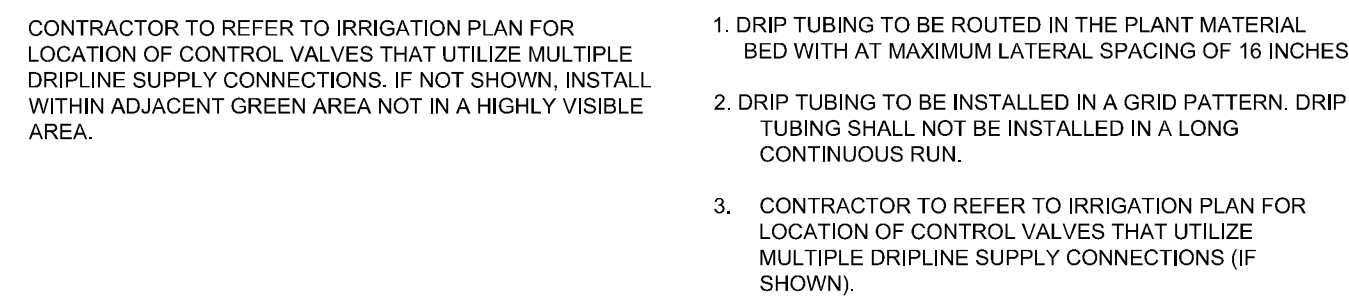
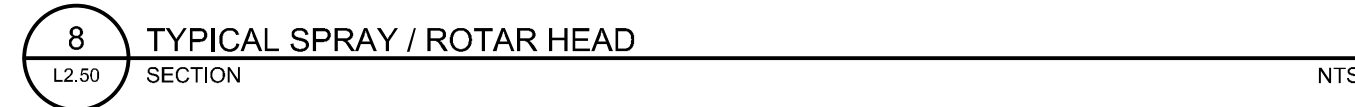
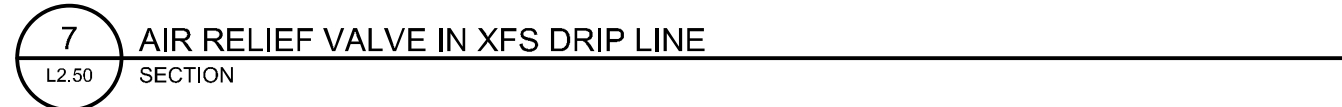
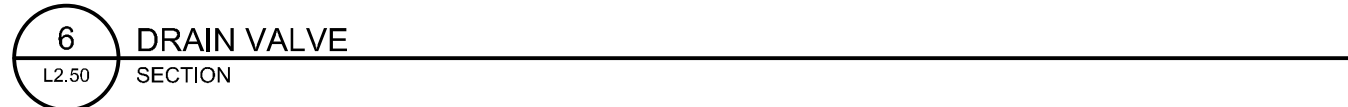
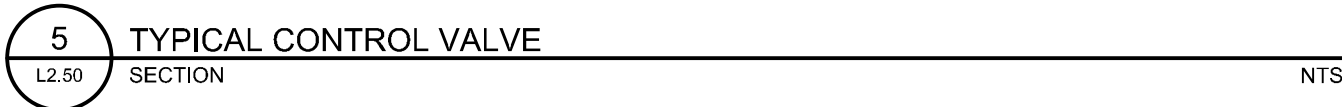
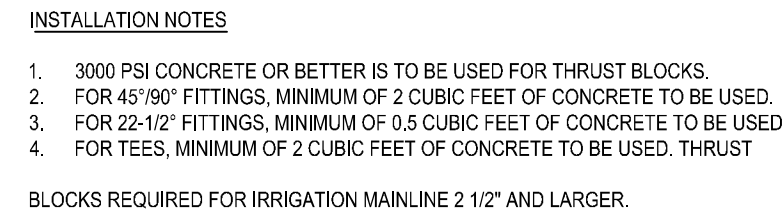
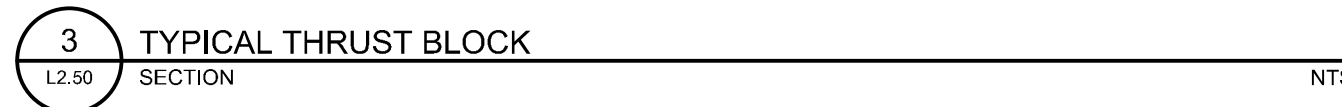
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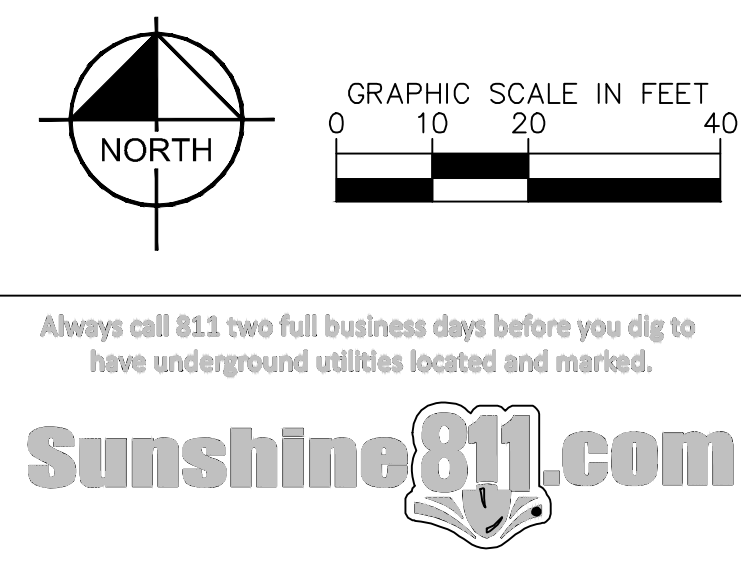
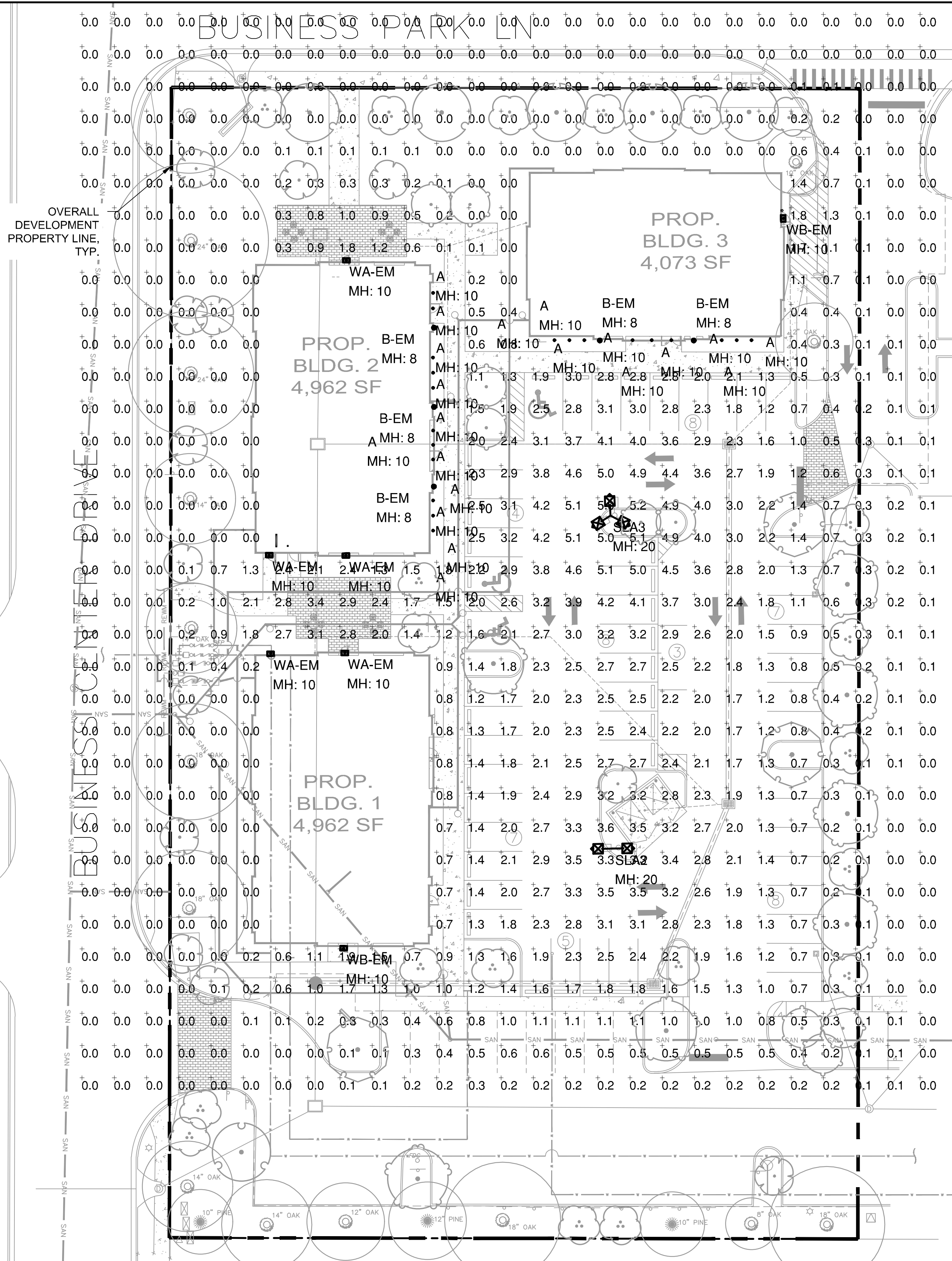
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REGISTRY No. 35106



- NOTES:
1. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
 2. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
 3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.





Landreth Lighting Luminaire Schedule									
Symbol	Manufacturer	Qty	Label	Arrangement	Description	LLF	BUG Rating	Arranged Watts	Arranged Lumens
	KLK	20	A	Single	XL50F00-40K-350-FLD-CLR-.25	1.000	B1-U0-G0	4.8	463
	LUMUX LIGHTING	5	B-EM	Single	U0410-20-19W-WHITE-40K-120-277V-UPLIGHT AND DOWNLIGHT- INTEGRAL BATTERY PACK	1.000	B1-U0-G0	18.4	1026
	Lithonia Lighting	1	SLA2	Back-Back	DSX0 LED P5 40K 70CRI T5M MVOLT NLTAIR2 PIRHN FINISH TBD: MOUNTED 20' AFG ON ROUND TAPERED ALUMINUM POLE	1.000	B4-U0-G2	180.24	25246
	Lithonia Lighting	1	SLA3	3 @ 120 Degrees	DSX0 LED P5 40K 70CRI T5M MVOLT NLTAIR2 PIRHN FINISH TBD: MOUNTED 20' AFG ON ROUND TAPERED ALUMINUM POLE	1.000	B4-U0-G2	270.36	37869
	Lithonia Lighting	5	WA-EM	Single	WDGE2 LED P1 40K 70CRI TFTM SRM E10WH NLTAIR2 PIR FINISH TBD	1.000	B0-U0-G1	11.166	1405
	Lithonia Lighting	2	WB-EM	Single	WDGE2 LED P1 40K 70CRI T2M SRM E10WH NLTAIR2 PIR FINISH TBD	1.000	B0-U0-G1	11.166	1427

Landreth Lighting Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking Lot	Illuminance	Fc	2.50	5.2	0.7	3.57	7.43

