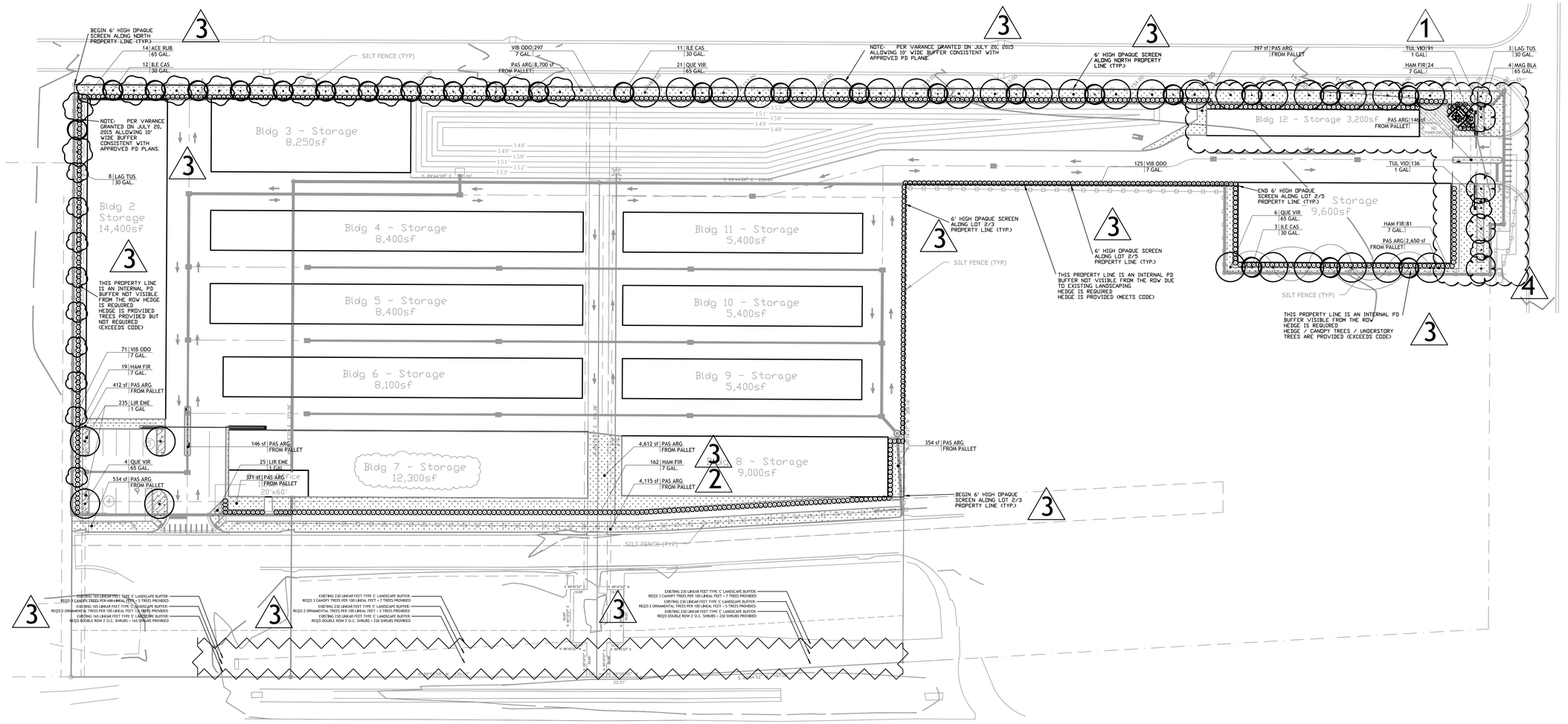

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Rocker Family Trust

Rockers Lockers

Lots 3, 4, 5
Green Valley Commons
Groveland, Florida

Site Plans

Sheet Title:

Landscape Plan

Date: October 12, 2015

Revisions:

No.:	Date:
1	January 26, 2015
2	March 7, 2016
3	June 15, 2016
4	July 15, 2016

Seal

James R Magley
State of Florida Lic. No.:LA 0001300

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Sheet Number

L1

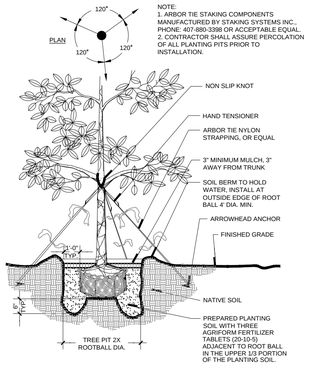
TYPICAL LANDSCAPE NOTES:

1. ALL TREE CALIPER SIZES NOTED ARE MINIMUM. INCREASE SIZE OR ANY OTHER SPECIFICATIONS AS REQUIRED, PROVIDING MINIMUM PLANT SIZE AND SPECIFICATIONS.
2. ALL CONTAINER SIZES NOTED ARE MINIMUM. INCREASE SIZE OF POT AS REQUIRED, PROVIDING MINIMUM PLANT SIZE AND SPECIFICATIONS. ALL HEIGHT AND SPREAD SPECIFICATIONS ARE MINIMUM.
3. SHRUB AND GROUNDCOVER BED QUANTITIES ARE INDICATED FOR EACH PLANT BED. ALL PLANT QUANTITIES FOR PROPOSALS SHALL BE DERIVED SOLELY FROM DRAWINGS AND SPECIFICATIONS.
4. SHRUB AND GROUND COVER SPACING IS INDICATED ON THE PLANT LIST AND SHALL APPLY FOR ALL "MASS PLANTING" BEDS.
5. OWNERS REPRESENTATIVE MUST TAG AN EXAMPLE OF EACH PALM SPECIES ACCORDING TO THE SPECIFICATIONS IN THE PLANT LIST.
6. SEE PLANT LIST DETAILS AND SPECIFICATIONS FOR FURTHER PLANTING INFORMATION.
7. LOCATION OF ALL UTILITIES AND BASE INFORMATION IS APPROXIMATE. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES AND OBSTRUCTIONS AND COORDINATE WITH OWNER'S REPRESENTATIVE PRIOR TO INITIATING INSTALLATION WORK. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY DAMAGE COMMITTED TO EXISTING ELEMENTS ABOVE OR BELOW GROUND TO ITS ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
8. CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
9. CONTRACTOR SHALL FIELD STAKE THE LOCATION OF ALL PLANT MATERIAL PRIOR TO INITIATING INSTALLATION FOR THE REVIEW AND APPROVAL OF THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE. THE LOCATION OF ALL PLANT MATERIAL IS SUBJECT TO FIELD CHANGE.
10. LANDSCAPE CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE IRRIGATION CONTRACTOR AND ALL OTHER TRADES.
11. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAND WATERING AS REQUIRED UNTIL PLANT MATERIALS ARE WELL ESTABLISHED, TO SUPPLEMENT IRRIGATION WATERING AND RAINFALL.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING IN ALL LANDSCAPE AREAS WHERE THE EXISTING OR PROPOSED IRRIGATION IS FOR WHATEVER REASON NOT OPERATING OR NOT OPERATING CORRECTLY.
13. CONTRACTOR SHALL CLEAN THE WORK AREAS AT THE END OF EACH WORKING DAY. RUBBISH AND DEBRIS SHALL BE COLLECTED AND DEPOSITED AS DIRECTED DAILY. ALL MATERIALS, PRODUCTS, AND EQUIPMENT SHALL BE STORED IN AN ORGANIZED FASHION AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
14. ALL PLANT MATERIAL SHALL BE IN FULL AND STRICT ACCORDANCE WITH FLORIDA NO. 1 GRADE, ACCORDING TO THE "GRADES AND STANDARDS FOR NURSERY PLANTS" PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, CURRENT EDITION.
15. CONTRACTOR SHALL REMOVE EXISTING SOD AND/OR VEGETATION IN ALL AREAS TO BE PLANTED WITH SHRUB/GROUNDCOVERS AND/OR ALL AREAS TO BE MULCHED.
16. CONTRACTOR SHALL REPLACE SOD IN ALL AREAS WHERE EXISTING VEGETATION IS REMOVED OR RELOCATED, WHERE EXISTING LAWN AREAS ARE DAMAGED BY HIS WORK, AND WHERE NEW VEGETATION IS INSTALLED (UNLESS OTHERWISE NOTED ON PLANS) WITH SAME GRASS SPECIES TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH GRADING ALL SUCH AREAS TO BLEND BOTH ELEVATIONS AND SOD INTO EXISTING SURROUNDING LAWN AREAS.
17. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS. PRIOR TO COMMENCEMENT OF THE LANDSCAPING WORK. FOR EVERY BLOCK SECTION OF STREET THE CONTRACTOR SHALL PROVIDE COMPLETE SOIL TESTS FOR AT LEAST THREE AREAS UNDISTURBED BY PREVIOUS WORK AND TWO AREAS DISTURBED AND/OR REFILLED. SEE SPECIFICATIONS FOR ADDITIONAL TESTING REQUIREMENTS.
18. THE CONTRACTOR SHALL PROVIDE UNIT PRICES AS REQUESTED WHICH INCLUDE THE TOTAL COST OF THE WORK INCLUDING BUT NOT LIMITED TO ANY AND ALL COSTS FOR EQUIPMENT, MATERIAL, PRODUCTS, OVERHEAD, PROFIT, GUARANTEES, LABOR, INSTALLATION, ETC. TO PROVIDE A COMPLETE JOB AS OUTLINED ON THE DRAWINGS. THE OWNER SHALL HAVE THE OPTION TO ADD OR DEDUCT FROM THE LUMP SUM BID CONTRACT AMOUNT, BASED ON THE QUOTED UNIT PRICES FOR ANY OR THE ITEMS LISTED IN THE "PLANT LIST".
19. CONTRACTOR SHALL PROTECT EXISTING VEGETATION TO REMAIN BY MEANS APPROVED BY THE OWNER/OWNER'S REPRESENTATIVE AND AS DETAILED IN THE DRAWINGS.
20. CONTRACTOR SHALL CLEAN, PRUNE, AND SHAPE EDGES OF EXISTING VEGETATION AS DIRECTED BY OWNER'S REPRESENTATIVE. CREATE SMOOTH BED LINES AROUND EXISTING VEGETATION.
21. CONTRACTOR AND EMPLOYEE VEHICLE PARKING SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE. SHUTTLING OF EMPLOYEES TO THE PROJECT AREAS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL NOT DISRUPT OR CONFLICT IN ANY WAY WITH EXISTING TRAFFIC.
22. CONSTRUCTION ACCESS SHALL BE INDICATED BY THE OWNER. COORDINATION OF HEAVY EQUIPMENT AND MATERIALS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATION OF WORK WITH OTHER TRADES AND THE OWNER OR OWNER'S REPRESENTATIVE.
23. THE CONTRACTOR SHALL TAKE WHATEVER MEANS THAT MAY BE NECESSARY TO FULLY UNDERSTAND ALL THE ACCESS ROUTES AND CONSTRUCTION SCHEDULES IN ORDER TO PROVIDE A COMPLETE AND FINISHED PROJECT ON SCHEDULE.
24. PINE STRAW MULCH OR APPROVED EQUAL SHALL BE USED (CYPRESS MULCH NOT ALLOWED).

PLANT SCHEDULE

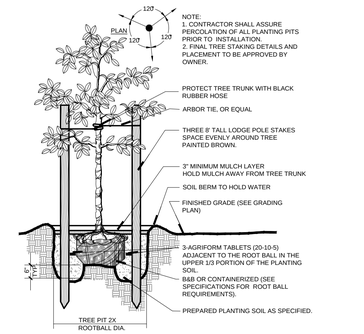
TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT.	CAL	SPECIFICATION	WATER USAGE	NATIVE		REMARKS
ACE RUB	14	ACER RUBRUM	RED MAPLE	65 GAL.	4" CAL	12` H MIN. X 5` S MIN.	MEDIUM	YES		SINGLE, STRAIGHT TRUNK, FULL
ILE CAS	26	ILEX CASSINE	DAHOON HOLLY	30 GAL.	2.5" CAL MIN	8` H X 4` S MIN	MEDIUM	YES		SINGLE, STRAIGHT TRUNK, FULL
LAG TUS	12	LAGERSTROEMIA X `TUSCARORA`	CORAL PINK CRAPE MYRTLE	30 GAL.	4 X 1" CAL MIN.	8` H X 4` S MIN	LOW-MEDIUM	NO		MULTI-TRUNK, FULL
MAG BLA	4	MAGNOLIA GRANDIFLORA `D.D. BLANCHARD` TM	SOUTHERN MAGNOLIA	65 GAL.	4" CAL	12` H MIN. X 5` S MIN.	LOW-MEDIUM	YES		SINGLE, STRAIGHT TRUNK, FULL
QUE VIR	31	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	65 GAL.	4" CAL	12` H MIN. X 5` S MIN.	LOW-MEDIUM	YES		SINGLE, STRAIGHT TRUNK, FULL
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT.	-	SPECIFICATION	WATER USAGE	NATIVE		REMARKS
HAM FIR	287	HAMELIA PATENS	FIRE BUSH	7 GAL.		36" H MIN. X 24" S	LOW-MEDIUM	YES		FULL
VIB ODO	494	VIBURNUM ODORATISSIMUM	SWEET VIBURNUM	7 GAL.		36" H MIN. X 24" S	LOW	NO		FULL
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT.	-	SPECIFICATION	WATER USAGE	NATIVE	SPACING	REMARKS
LIR EME	260	LIRIOPE MUSCARI `EMERALD GODDESS`	LIRIOPE	1 GAL		12" H X 12" S	MEDIUM	NO	18" o.c.	FULL
TUL VIO	227	TULBAGHIA VIOLACEA	SOCIETY GARLIC	1 GAL		12" H X 12" S	LOW	NO	18" o.c.	FULL
SOD/SEED	QTY	BOTANICAL NAME	COMMON NAME	CONT.	-	SPECIFICATION	WATER USAGE	NATIVE	SPACING	REMARKS
PAS ARG	22,437 SF	PASPALUM NOTATUM `ARGENTINE`	BAHIA GRASS	FROM PALLET		SOD	N/A	NO		CLEAN AND WEED FREE

1 LANDSCAPE SCHEDULE



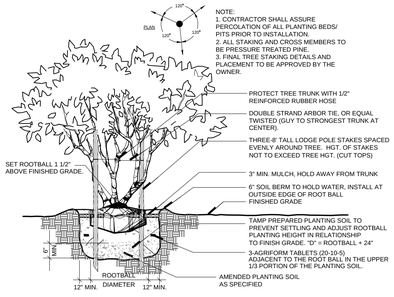
2 LARGE TREE PLANTING DETAIL

Scale: N.T.S.



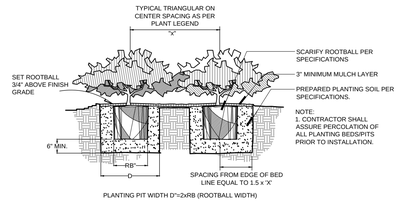
3 SMALL TREE PLANTING DETAIL

Scale: N.T.S.



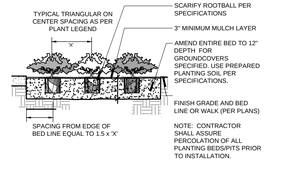
4 MULTI-TRUNK TREE PLANTING DETAIL

Scale: N.T.S.



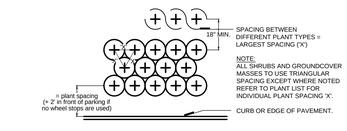
5 SHRUB PLANTING DETAIL

Scale: N.T.S.



6 GROUNDCOVER PLANTING DETAIL

Scale: N.T.S.



7 PLANT SPACING DETAIL

Scale: N.T.S.

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ROCKER FAMILY TRUST

ROCKERS LOCKERS

LOTS 3, 4, 5
GREEN VALLEY COMMONS
GROVELAND, FLORIDA

SITE PLANS

Sheet Title:

LANDSCAPE NOTES & DETAILS

Date: October 12, 2015

Revisions:

No.:	Date:
1	January 26, 2015
2	March 7, 2016
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Seal

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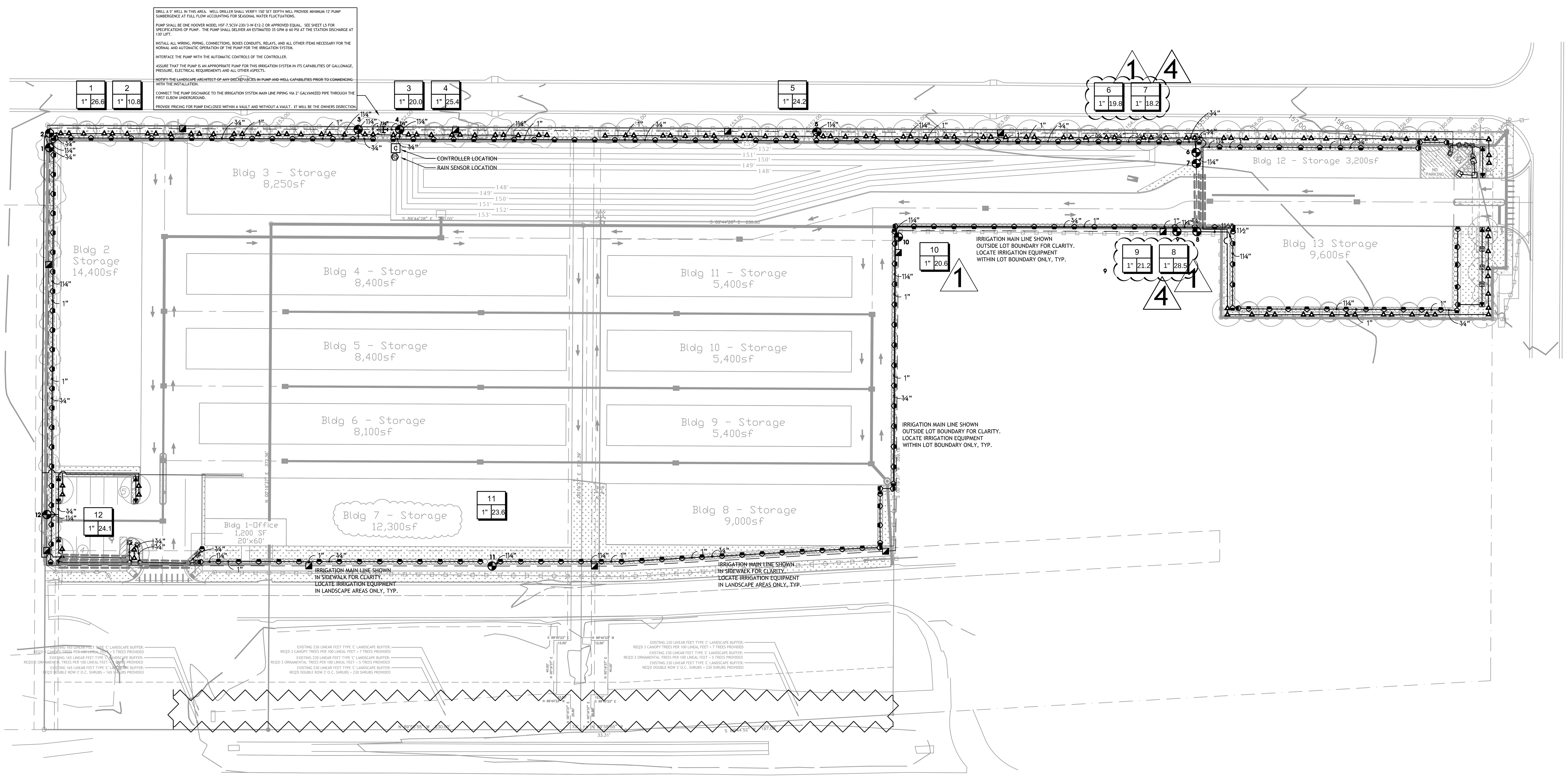
Sheet Number

L2


DRILL A 5" WELL IN THIS AREA. WELL DRILLER SHALL VERIFY 150' SET DEPTH WILL PROVIDE MINIMUM 12' PUMP SUMBERGENCE AT FULL FLOW ACCOUNTING FOR SEASONAL WATER FLUCTUATIONS.
PUMP SHALL BE ONE HOOVER MODEL HSF-7.5CSV-230/3-W-E12-Z OR APPROVED EQUAL. SEE SHEET L5 FOR SPECIFICATIONS OF PUMP. THE PUMP SHALL DELIVER AN ESTIMATED 35 GPM @ 60 PSI AT THE STATION DISCHARGE AT 130' LIFT.
INSTALL ALL WIRING, PIPING, CONNECTIONS, BOXES CONDUITS, RELAYS, AND ALL OTHER ITEMS NECESSARY FOR THE NORMAL AND AUTOMATIC OPERATION OF THE PUMP FOR THE IRRIGATION SYSTEM.
INTERFACE THE PUMP WITH THE AUTOMATIC CONTROLS OF THE CONTROLLER.
ASSURE THAT THE PUMP IS AN APPROPRIATE PUMP FOR THIS IRRIGATION SYSTEM IN ITS CAPABILITIES OF GALLONAGE, PRESSURE, ELECTRICAL REQUIREMENTS AND ALL OTHER ASPECTS.
NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PUMP AND WELL CAPABILITIES PRIOR TO COMMENCING WITH THE INSTALLATION.
CONNECT THE PUMP DISCHARGE TO THE IRRIGATION SYSTEM MAIN LINE PIPING VIA 2" GALVANIZED PIPE THROUGH THE FIRST ELBOW UNDERGROUND.
PROVIDE PRICING FOR PUMP ENCLOSED WITHIN A VAULT AND WITHOUT A VAULT. IT WILL BE THE OWNERS DISRECTION.
CONTROLLER LOCATION
RAIN SENSOR LOCATION
Bldg 1-Office 1,200 SF 20'x60'
Bldg 2 Storage 14,400sf
Bldg 3 - Storage 8,250sf
Bldg 4 - Storage 8,400sf
Bldg 5 - Storage 8,400sf
Bldg 6 - Storage 8,100sf
Bldg 7 - Storage 12,300sf
Bldg 8 - Storage 9,000sf
Bldg 9 - Storage 5,400sf
Bldg 10 - Storage 5,400sf
Bldg 11 - Storage 5,400sf
Bldg 12 - Storage 3,200sf
Bldg 13 Storage 9,600sf
IRRIGATION MAIN LINE SHOWN OUTSIDE LOT BOUNDARY FOR CLARITY. LOCATE IRRIGATION EQUIPMENT WITHIN LOT BOUNDARY ONLY, TYP.
IRRIGATION MAIN LINE SHOWN IN SIDEWALK FOR CLARITY. LOCATE IRRIGATION EQUIPMENT IN LANDSCAPE AREAS ONLY, TYP.
1 1" 26.6
2 1" 10.8
3 1" 20.0
4 1" 25.4
5 1" 24.2
6 1" 19.8
7 1" 18.2
8 1" 28.5
9 1" 21.2
10 1" 20.6
11 1" 23.6
12 1" 24.1

N

0 20 40 80

1 Inch = 40 Ft

This plan may have been reduced in size. Verify before scaling dimensions

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Rocker Family Trust

Rockers Lockers

Lots 3, 4, 5
Green Valley Commons
Groveland, Florida

Site Plans

Sheet Title:

Irrigation Plan

Date: October 12, 2015

Revisions:

No.:	Date:
1	January 26, 2015
4	July 15, 2016

Seal

James R Magley
State of Florida Lic. No.:LA 0001300

Sheet Number

L3

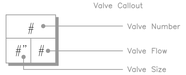
TYPICAL IRRIGATION NOTES:

1. UNLESS OTHERWISE NOTED, THE LIMITS OF CONSTRUCTION ARE AS INDICATED ON DRAWINGS.
2. ANY TREES TO REMAIN WITHIN LIMIT OF WORK SHALL BE VERIFIED IN THE FIELD AND PROTECTED FROM DAMAGES.
3. ALL PROJECT BASE INFORMATION PROVIDED BY THE OWNER.
4. REFER TO ENGINEERING DRAWINGS FOR ALL UTILITY LOCATIONS, AND VERIFY IN THE FIELD PRIOR TO COMMENCING WORK. REFER TO ENGINEERING DRAWINGS FOR FINAL GRADING AND SPOT ELEVATIONS. VERIFY IN THE FIELD PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR, PRIOR TO BEGINNING ANY UNDERGROUND EXCAVATION, DIGGING, OR BORING MUST FIRST OBTAIN ALL REQUIRED PERMITS. WORK IS NOT AUTHORIZED PRIOR TO THE ISSUANCE OF PERMIT(S). THE CONTRACTOR SHALL COMPLY WITH FL 77-153 REGARDING NOTIFICATIONS OF EXISTING GAS AND OIL PIPELINE COMPANY OWNERS. EVIDENCE OF SUCH NOTICE SHALL BE FURNISHED TO THE OWNER PRIOR TO EXCAVATING. THE CONTRACTOR SHALL COORDINATE FULLY WITH THE OWNER FOR ALL EXCAVATION PERMITS AND NOTIFICATIONS NECESSARY PRIOR TO INITIATING ALL WORK.
6. VERIFY GALLONAGE AND PRESSURE AVAILABILITY AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT BEFORE COMMENCING WITH THE INSTALLATION.
7. POP-UP SPRINKLER HEADS AND LATERALS SHALL BE INSTALLED 6" FROM EDGE OF PAVEMENT OR WALKS AND FLUSH WITH FINISH GRADE.
8. THE LOCATION OF ALL CONTROLLERS SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO FULLY COORDINATE THE INSTALLATION, LOCATION, AND CONNECTION OF THE POWER SOURCE AND SERVICE WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO FULLY COORDINATE THE INSTALLATION, LOCATION, AND CONNECTION OF THE TELEPHONE COMMUNICATION WIRE AND SERVICE WITH THE OWNER'S REPRESENTATIVE AND THE COMMUNICATIONS PROVIDER PRIOR TO INSTALLATION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO FULLY COORDINATE AND INTEGRATE THE OPERATION SCHEDULE OF THE IRRIGATION CONTROL SYSTEM PER THE OWNER'S REPRESENTATIVE'S DIRECTION AND APPROVAL.
12. FIELD ALTERATIONS MADE IN THE IRRIGATION CONTRACT DRAWINGS MUST BE IN THE BEST INTEREST OF THE PLANT MATERIAL, SOD AND LANDSCAPE IRRIGATION SYSTEM. CHANGES MADE BY THE IRRIGATION CONTRACTOR SHALL BE APPROVED BY THE OWNER/LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
13. NO MATERIAL SUBSTITUTIONS ARE ALLOWED. ANY ALTERATION DEEMED BY THE OWNERS REPRESENTATIVE NOT IN CONFORMANCE WITH THE ABOVE CRITERIA SHALL BE REMOVED AND REPLACED AT THE IRRIGATION CONTRACTOR'S EXPENSE. IF QUESTIONS ARISE AS TO THE BEST WAY TO COMPLETE A FIELD ALTERATION, CONTACT THE OWNER'S REPRESENTAIVE FOR APPROVAL.
14. THE LOCATION OF ALL PLANT MATERIAL SHALL BE FIELD STAKED BY THE LANDSCAPE CONTRACTOR FOR APPROVAL BY THE OWNERS REPRESENTATIVE OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF THE IRRIGATION SYSTEM.
15. RISER-MOUNTED SPRAY HEADS SHALL BE UTILIZED AS REQUIRED:
    a. IN PLANTING BEDS ADJACENT TO BUILDING OR STRUCTURES ONLY.
    b. TO BE INSTALLED 6" ABOVE PLANT HEIGHT AT TIME OF PLANTING.
    c. RISER TO BE OF SCHEDULE 40 PVC AND PAINTED GREEN.
    d. INSTALLED 12" FROM EDGE OF BUILDING WALL.
17. HIGH POP-UP SPRAYS SHALL BE UTILIZED AS REQUIRED:
    a. IN PLANTING BEDS WHERE SPRAY HEAD IS IN LOW PLANTING OR GROUNDCOVER (MATURE PLANT HEIGHT IS 1" - 18").
    b. IN PARKING ISLANDS CONTAINING GROUNDCOVER PLANTING.
    c. WHERE IT IS ADVANTAGEOUS TO CONCEAL SPRINKLER HEADS DUE TO HIGH PEDESTRIAN TRAFFIC, VISIBILITY, VANDALISM AND MAINTENANCE, INSTALL SPRAY HIGH POP-UP RISER SO THAT HIGH POP-UPS SPRING ABOVE PLANT MATERIAL.
18. CHANGES IN HEAD PLACEMENT OR A SPRAY SUBSTITUTION SHOULD ALWAYS TAKE INTO CONSIDERATION:
    a. WHAT IS BEST FOR THE GROWTH AND MAINTENANCE OF THE SOD AND PLANT MATERIAL.
    b. MAINTAINING A CONSTANT AND EVEN WATER DISTRIBUTION AND PRECIPITATION RATE (I.E., NEVER PUT ROTORS AND SPRAYS IN SAME ZONE)
19. INSTALL ALL CONNECTED PIPING SHOWN BETWEEN DIFFERENT PIPE SIZES LABELS AS THE LARGER OF THE TWO SIZES OF PIPE.
20. INSTALL ALL PIPING TO INDIVIDUAL SPRAY HEADS AND BUBBLERS AS 3/4"
21. EACH TYPE OF ZONE IS TO BE PIPED SEPARATELY. DO NOT INTERCONNECT DIFFERENT TYPES OF ZONES (I.E., ROTORS AND SPRAYS).
22. ANY IRRIGATION ITEMS NORMALLY INSTALLED IN LANDSCAPE AREAS THAT ARE SHOWN OUTSIDE OF LANDSCAPE AREAS OR OUTSIDE OF PROPERTY LINES ARE SHOWN AS SUCH FOR GRAPHIC CLARITY ONLY. INSTALL THESE ITEMS INSIDE OF PROPERTY LINES AND IN LANDSCAPE AREAS.
23. PROVIDE PROOF TO THE LANDSCAPE ARCHITECT THAT ALL AVAILABLE MAINTENANCE MANUALS FOR EACH OF THE PRODUCTS INCLUDED IN THIS INSTALLATION HAVE BEEN PROVIDED TO THE OWNER OR OWNER'S REPRESENTATIVE.
24. VALVES ARE SHOWN OUTSIDE OF PLANT BEDS FOR GRAPHIC CLARITY. INSTALL ALL VALVES AND VALVE BOXES IN LAWN AREAS, NOT PLANTING BEDS.
25. THE CONTRACTORS ARE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CODES, INCLUDING THOSE REGARDING SEPARATION DISTANCE MINIMUMS FOR POTABLE WATER VERSUS EFFLUENT WATER AND SHALL INSTALL THE SYSTEM IN ACCORDANCE WITH THOSE CODES.
26. INSTALL 12" POP-UP SPRAY HEADS AT FINISHED GRADE IN ALL GROUNDCOVER AREAS.
27. INSTALL ALL SPRAYHEADS IN SHRUB BEDS ON RISERS ALONG BUILDING SIDEWALLS.
28. SPACE ALL SPRAY HEADS AT A MAXIMUM OF 55% OF THEIR EFFECTIVE COVERAGE DIAMETER OR CLOSER WHERE SHOWN AS SUCH ON THE PLANS.
29. ALL BAHIA SOD WILL NOT BE IRRIGATED, UNLESS SHOWN OTHERWISE. CONTRACTOR WILL BE RESPONSIBLE FOR HAND WATERING UNTIL IT IS WELL ENOUGH ESTABLISHED TO SURVIVE THROUGH THE WARRANTY PERIOD.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	ARC	GPM	RADIUS
	RAIN BIRD 1800-PA-8S-PRS 15 STRIP SERIES SHRUB SPRAY ON FIXED RISER WITH THE PA-8S-PRS PRESSURE REGULATING SHRUB ADAPTER. USE WITH 1/2" MPT THREADED RISERS.	23	EST	0.61	4'x15'
	RAIN BIRD 1800-PA-8S-PRS 15 STRIP SERIES SHRUB SPRAY ON FIXED RISER WITH THE PA-8S-PRS PRESSURE REGULATING SHRUB ADAPTER. USE WITH 1/2" MPT THREADED RISERS.	168	SST	1.21	4'x30'
	RAIN BIRD 1812-SAM-PRS 15 STRIP SERIES SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	3	CST	1.21	4'x30'
	RAIN BIRD 1812-SAM-PRS 15 STRIP SERIES SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	10	EST	0.61	4'x15'
	RAIN BIRD 1812-SAM-PRS 8 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	4	90	0.26	8'
	RAIN BIRD 1812-SAM-PRS 10 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	4	90	0.39	10'
	RAIN BIRD 1812-SAM-PRS 12 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	3	90	0.65	12'
	RAIN BIRD 1812-SAM-PRS HE-VAN SERIES SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	5	ADJ		8'
	RAIN BIRD 1800-1400 FLOOD FIXED FLOW RATE (0.25-2.0GPM), FULL CIRCLE BUBBLER, 1/2" FIPT.	122	360	0.25	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
	RAIN BIRD PESB-PRS-D 1" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATING MODULE, AND SCRUBBER TECHNOLOGY FOR RELIABLE PERFORMANCE IN DIRTY WATER IRRIGATION APPLICATIONS.	12			
	RAIN BIRD 33-DLRC 3/4" 3/4" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, DOUBLE TRACK KEY LUG, AND 2-PIECE BODY.	11			
C	RAIN BIRD ESP8LXMEF WITH (02) ESPLXMSM4 16 STATION COMMERCIAL CONTROLLER. MOUNTED ON A PLASTIC WALL MOUNT. FLOW SENSING AND WATER MANAGEMENT CAPABILITIES.	1			
RS	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.	1			
P.O.C.	IRRIGATION WELL	1			
	IRRIGATION LATERAL LINE: PVC CLASS 160 SDR 26 3/4" PVC CLASS 315 FOR 1/2" PIPE, PVC CLASS 200 FOR 3/4" PIPE, PVC CLASS 160 SDR 26 FOR 1" AND ABOVE.	3,509 L.F.			
	IRRIGATION LATERAL LINE: PVC CLASS 160 SDR 26 1" PVC CLASS 315 FOR 1/2" PIPE, PVC CLASS 200 FOR 3/4" PIPE, PVC CLASS 160 SDR 26 FOR 1" AND ABOVE.	779.6 L.F.			
	IRRIGATION LATERAL LINE: PVC CLASS 160 SDR 26 1 1/4" PVC CLASS 315 FOR 1/2" PIPE, PVC CLASS 200 FOR 3/4" PIPE, PVC CLASS 160 SDR 26 FOR 1" AND ABOVE.	787.7 L.F.			
	IRRIGATION LATERAL LINE: PVC CLASS 160 SDR 26 1 1/2" PVC CLASS 315 FOR 1/2" PIPE, PVC CLASS 200 FOR 3/4" PIPE, PVC CLASS 160 SDR 26 FOR 1" AND ABOVE.	33.0 L.F.			
	IRRIGATION MAINLINE: PVC SCHEDULE 40 1 1/2" PVC SCHEDULE 40 IRRIGATION PIPE.	2,320 L.F.			
	PIPE SLEEVE: BLU-LOCK AND 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.	294.9 L.F.			

Valve Callout



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	PSI	PSI @ POC	GPM	PRECIP
1	RAIN BIRD PESB-PRS-D	1"	SHRUB SPRAY	40.28	44.48	26.63	2.01 in/h
2	RAIN BIRD PESB-PRS-D	1"	BUBBLER	38.75	39.51	10.75	7.66 in/h
3	RAIN BIRD PESB-PRS-D	1"	SHRUB SPRAY	38.77	38.99	19.97	1.87 in/h
4	RAIN BIRD PESB-PRS-D	1"	SHRUB SPRAY	39.85	39.85	25.41	1.84 in/h
5	RAIN BIRD PESB-PRS-D	1"	SHRUB SPRAY	39.67	40.53	24.20	1.84 in/h
6	RAIN BIRD PESB-PRS-D	1"	BUBBLER	40.41	42.09	19.75	11.42 in/h
7	RAIN BIRD PESB-PRS-D	1"	SHRUB SPRAY	39.04	40.51	18.22	1.52 in/h
8	RAIN BIRD PESB-PRS-D	1"	SHRUB SPRAY	39.90	43.67	28.47	1.83 in/h
9	RAIN BIRD PESB-PRS-D	1"	SHRUB SPRAY	38.42	40.67	21.19	1.88 in/h
10	RAIN BIRD PESB-PRS-D	1"	SHRUB SPRAY	39.10	42.16	20.60	1.94 in/h
11	RAIN BIRD PESB-PRS-D	1"	SHRUB SPRAY	39.60	45.44	23.60	1.88 in/h
12	RAIN BIRD PESB-PRS-D	1"	SHRUB SPRAY	40.25	45.73	24.08	1.62 in/h

CRITICAL ANALYSIS

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P.O.C. NUMBER: 01	
Water Source Information:	IRRIGATION WELL
FLOW AVAILABLE	
Custom Max Flow:	30.00 gpm
Flow Available:	30.00 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	50.00 psi
Pressure Available:	50.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	25.28 gpm
Flow Available at POC:	30.00 gpm
Residual Flow Available:	4.72 gpm
Pressure Req. at Critical Station:	39.90 psi
Loss for Fittings:	0.74 psi
Loss for Main Line:	7.38 psi
Loss for POC to Valve Elevation:	0.00 psi
Loss for Backflow:	0.00 psi
Critical Station Pressure at POC:	48.02 psi
Pressure Available:	50.00 psi
Residual Pressure Available:	1.98 psi

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ROCKER FAMILY TRUST

ROCKERS LOCKERS

LOTS 3, 4, 5
GREEN VALLEY COMMONS
GROVELAND, FLORIDA

SITE PLANS

Sheet Title:

IRRIGATION NOTES

Date: October 12, 2015

Revisions:

No.:	Date:
1	January 26, 2015
4	July 15, 2016

Seal

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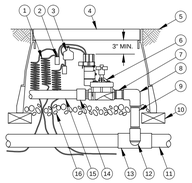


1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATER PROOF CONNECTION (1 OF 2)
3. ID TAG
4. VALVE BOX WITH COVER: 12-INCH SIZE (USE NP COVER ON RE-USE)
5. FINISH GRADE/TOP OF MULCH
6. REMOTE CONTROL VALVE: RAIN BIRD PES-B-PRS-B
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

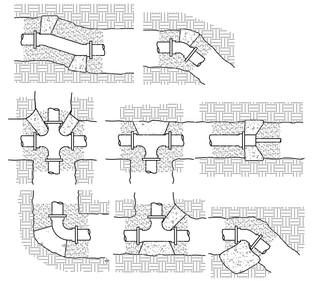
1 REMOTE CONTROL VALVE

Scale: N.T.S.

NOTE: ALL PIPE TRENCHING SHALL CONFORM TO THE CITY OF GROVELAND MANUAL OF STANDARDS, APPENDIX A, GENERAL DETAILS.

2 TYPICAL TRENCHING DETAIL

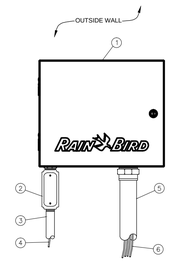
Scale: N.T.S.



THRUST BLOCKS ARE TO BE CONSTRUCTED WITH 3,000 PSI CONCRETE AT 48 HRS. STEEL REINFORCING RODS WILL BE REQ'D IF SURROUNDING SOIL HAS A BEARING VALUE OF LESS THAN 2,000 PSF. THRUST BLOCKS REQUIRED AT ALL FITTINGS AND DIRECTION CHANGES ON MAIN LINES. THRUST BLOCK LOCATIONS SHALL BE NOTED ON AS-BUILT DRAWINGS.

3 TYPICAL THRUST BLOCK DETAIL

Scale: N.T.S.



1. IRRIGATION CONTROLLER: RAIN BIRD ESP-LXME CONTROLLER IN LXMM METAL CABINET WITH OUTSIDE WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
2. JUNCTION BOX
3. 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
4. POWER SUPPLY WIRE
5. 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES
6. WIRES TO REMOTE CONTROL VALVES

NOTES:
1. ESP-LXME CONTROLLER IS AVAILABLE IN 8- OR 12-STATION BASE MODELS. ADDITIONAL MODULES IN 4-, 8- AND 12-STATION VERSIONS MAY BE ADDED TO BRING THE CONTROLLER UP TO 48 STATIONS MAXIMUM.
2. 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.
3. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
4. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

4 ESP-LXME CONTROLLER IN METAL CABINET

Scale: N.T.S.

RAIN BIRD MODEL 33DRC (USE NP COVER ON RE-USE)

1. FINISH GRADE/TOP OF MULCH
2. QUICK-COUPLING VALVE: RAIN BIRD MODEL 5NP
3. VALVE BOX WITH COVER: VB-10RNDP
4. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
5. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
6. BRICK (1 OF 2)
7. PVC SCH 40 STREET ELL
8. PVC SCH 40 TEE OR ELL
9. PVC MAINLINE PIPE
10. PVC SCH 40 ELL
11. 2" x 2" REDWOOD STAKE W/ STAINLESS STEEL GEAR CLAMPS OR EQUIVALENT SUPPORT SYSTEM

NOTE:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

5 QUICK COUPLER VALVE

Scale: N.T.S.

1. EXTERIOR WALL (SEE NOTE)
2. MODEL RSD-BEx
3. RUN LEAD WIRES TO CONTROLLER

NOTE:
MOUNT SENSOR ON SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN PATH OF SPRINKLER SPRAY.

6 WALL MOUNTED RAIN SENSOR

Scale: N.T.S.

7 GATE VALVE

Scale: N.T.S.

(USE NP COVER ON RE-USE)

8 SHRUB NOZZLE ON FIXED RISER

Scale: N.T.S.

1. PRESSURE COMPENSATING FULL-CIRCLE BUBBLER: RAIN BIRD 1400
2. PLASTIC ADAPTER: RAIN BIRD MODEL PA-80
3. PLANT MATERIAL
4. FINISH GRADE/TOP OF MULCH
5. POP-UP SPRAY SPRINKLER: RAIN BIRD 1804
6. 1/2-INCH MALE NPT x .490-INCH BARB ELBOW: RAIN BIRD MODEL SBE-050
7. SWING PIPE, 12-INCH LENGTH: RAIN BIRD MODEL SP-100
8. PVC LATERAL PIPE
9. PVC SCH 40 TEE OR ELL

9 TYPICAL BUBBLER DETAIL

Scale: N.T.S.

(USE NP COVER ON RE-USE)

1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1800
3. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
4. PVC SCH 40 ELL
5. PVC SCH 40 STREET ELL
6. PVC SCH 40 TEE OR ELL
7. PVC LATERAL PIPE

10 TYPICAL POP-UP SPRAY HEAD DETAIL

Scale: N.T.S.

NOTE: DISCHARGE PIPES & HEADER TO IRRIGATION MAIN SHALL BE SCHED 40 GALVANIZED STEEL PIPE WITH GALV. ROLL GROOVE FITTINGS. PUMP DROP PIPE SHALL BE HDPE HEAT FUSED. SET PUMP 150' ON 2" PIPE. INSTALL MOTOR CABLE SPLICE BETWEEN MOTOR AND CONTROL PANEL IN NEMA 4X JUNCTION BOX ADJACENT TO WELL IN ACCORDANCE WITH ELECTRICAL CODES.

WELL DRILLER SHALL NOTIFY THE PUMP SYSTEM MANUFACTURER IN WRITING WITHIN 24 HOURS OF DEVELOPING THE WELL IF THE WELL PUMPING LEVEL IS GREATER THAN 126' BELOW FINISHED GRADE AFTER 8 HOURS OF CONTINUOUS PUMPING AT 150% OF THE DESIGN FLOW BELOW.

PROVIDE MINIMUM OF 4' CLEARANCE ON ALL SIDES OF PUMP SYSTEM

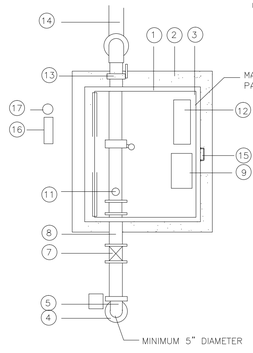
* OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"

X PRESSURE CONTROL VALVE

X IRRIGATION CONTROLLER RAIN BIRD ESPLXME 16 STATIONS, AND RAIN SENSOR ON METAL LATCHING BRACKET.

X PRESSURE TANKS FOR PRESSURE DEMAND SYSTEM

SAFETY FEATURES:
CLOCK START:
-TRANSIENT SURGE
-LOSS OF PRIME
-NO FLOW



1. 4' X 4' FIBERGLASS REINFORCED ENCLOSURE FOREST GREEN GELCOAT FINISH
2. REINFORCED CONCRETE PAD (4" THICK)
3. 4' X 4' ALUMINUM SKID
4. WELL SEAL
5. WELL, JUNCTION BOX & DISCHARGE PIPE
6. SUBMERSIBLE PUMP MOTOR ASSEMBLY 7.5 HP (NOT SHOWN)
7. CHECK VALVE
8. GALV. STEEL DISCHARGE
9. VARIABLE FREQUENCY DRIVE
10. N/A
11. PRESSURE TRANSDUCER
12. CONTROL PANEL ASSEMBLY UL LISTED MAINTAIN 42" CLEARANCE
13. DISCHARGE VALVE
14. IRRIGATION MAIN
15. LOCKABLE HANDLE
16. IRRIGATION CONTROLLER
17. RAIN SENSOR ON METAL LATCHING BRACKET

PLAN VIEW NTS

PUMP PERFORMANCE
35 GPM @ 290 TDH, 60 PSI

ELECTRIC SERVICE TO BE, IN ORDER OF PREFERENCE:
460V 3-PHASE, 230V CLOSED-DELTA 3-PHASE, 208 WYE 3-PHASE, 230 1-PHASE, 208V 1-PHASE, 230 OPEN-DELTA 3-PHASE.

11 SUBMERSIBLE PUMP SYSTEM DETAIL

Scale: N.T.S.

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