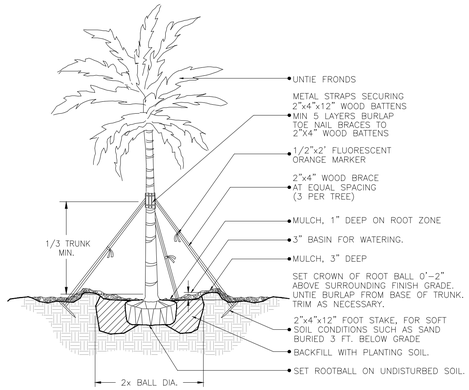
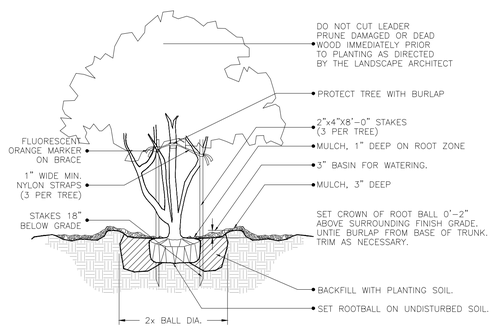


LARGE PALM PLANTING DETAIL

N.T.S.



MULTI- TRUNK AND SMALL TREE (2" cal. and under) PLANTING DETAIL

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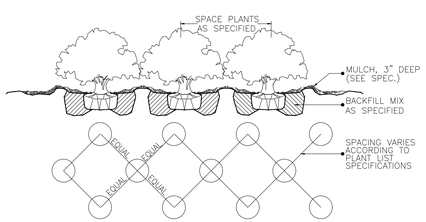
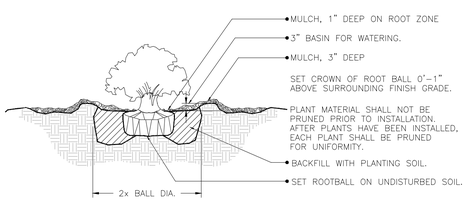


SHRUB / GROUNDCOVER SPACING / PLANTING DETAIL

N.T.S.



SHRUB PLANTING DETAIL

N.T.S.

LANDSCAPE NOTES

1. PLANT MATERIAL: ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER AS ESTABLISHED BY "GRADES AND STANDARDS FOR NURSERY PLANTS" OF THE STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.

2. ALL TREES, SHRUBS AND GROUNDCOVERS SHALL BE OF THE SIZES AS SPECIFIED IN THE PLANT LIST.

3. QUANTITIES LISTED ON THE THE PLANT LIST ARE FOR ESTIMATING PURPOSES. CONTRACTOR SHALL VERIFY ALL QUANTITIES. MULCH, TOPSOIL, FERTILIZER, ETC. SHALL BE INCLUDED IN THE UNIT COST OF THE PLANTS.

4. WHERE THERE IS A DISCREPANCY EITHER IN QUANTITIES, PLANT NAMES, SIZES OR SPECIFICATIONS BETWEEN THE PLAN OR PLANT LIST, THE PLAN TAKES PRECEDENCE.

5. ALL PLANTING BEDS AND WATER BASINS FOR TREES SHALL BE COVERED WITH A 3" MINIMUM DEPTH OF SHREDDED EUCALYPTUS OR FLORIMULCH GRADE 'B' OR BETTER.

6. THE PLANTING PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL EXISTING CODES AND APPLICABLE DEED RESTRICTIONS.

7. SOD: ALL AREAS NOT USED FOR BUILDINGS, VEHICULAR USE AREAS, WALKS OR PLANTING BEDS SHALL BE GRASSED. GRASSING SHALL EXTEND TO ANY ABUTTING STREET PAVEMENT EDGE AND TO THE MEAN WATERLINE OF ANY ABUTTING CANAL, LAKE OR WATERWAY.

8. PLANTING SOIL: ALL TREES AND SHRUBS SHALL BE PLANTED WITH A MINIMUM OF 12" TOPSOIL AROUND AND BENEATH THE ROOTBALL. MINIMUM TOPSOIL SHALL BE 6" FOR GROUNDCOVER AREAS AND 2" FOR SODDED GRASS AREAS.

9. PLANTING SOIL TO BE A WEED-FREE MIXTURE OF 50% SAND, 40% MUCK, AND 10% CANADIAN PEAT. ALL PLANT MATERIAL TO RECEIVE PLANTING SOIL AS PER DETAILS.

10. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL UTILITY LOCATIONS AND INSTALLING FACILITIES SO AS TO NOT CONFLICT. ALL DAMAGE TO EXISTING UTILITIES OR IMPROVEMENTS CAUSED BY CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.

11. CONTRACTOR TO NOTIFY "SUNSHINE" AT 1-800-638-4097 TWO FULL BUSINESS DAYS PRIOR TO DIGGING FOR UNDERGROUND UTILITY LOCATIONS.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FINAL GRADING OF ALL ASSOCIATED PLANTING AREAS.

13. AFTER FINAL GRADE, AREA TO BE RAKED TO 6" DEPTH AND ALL ROCK AND FOREIGN INORGANIC MATERIALS REMOVED AND DISPOSED OF PROPERLY OFF-SITE.

14. ALL PLANTING HOLES TO BE HAND DUG EXCEPT WHERE MACHINE DUG HOLES WILL NOT ADVERSELY AFFECT OR DAMAGE UTILITIES OR IMPROVEMENTS (SEE NOTE 8).

15. NO PLUNGING OF ANY TREE OR PALM WILL BE ACCEPTED. ALL PLANTS TO BE PLANTED AT THE NURSERY GRADE OR SLIGHTLY HIGHER.

16. CONTRACTOR SHALL STAKE & GUY ALL TREES AND PALMS AT TIME OF PLANTING AS PER THE APPROPRIATE DETAIL. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND/OR REPAIR OF ALL STAKING AND GUYING DURING WARRANTY PERIOD AND REMOVAL & DISPOSAL OF STAKING AFTER ESTABLISHMENT PERIOD.

17. FERTILIZER FOR GRASS AREAS SHALL BE NPK 16-4-8 @ 12.5 LBS/1000 S.F. OR 545 LBS/ACRE. NITROGEN 50% SLOW RELEASE FORM & FERTILIZER TO INCLUDE SECONDARY MICRONUTRIENTS.

18. SUBSTITUTIONS AND CHANGES: ALL SUBSTITUTIONS AND CHANGES SHALL BE APPROVED IN WRITING PRIOR TO INSTALLATION. ANY DISCREPANCIES BETWEEN PLANS, SITE AND SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT, THE OWNER AND GOVERNING MUNICIPALITY.

19. WATERING: ALL PLANT MATERIAL SHALL BE WATERED IN AT TIME OF PLANTING IN ACCORDANCE WITH STANDARD NURSERY PRACTICES. IN ADDITION, CONTRACTOR WILL CONTINUE WATERING OF PLANT MATERIAL UNTIL SUBSTANTIAL COMPLETION AND AS NEEDED THEREAFTER FOR A PERIOD OF 2 MONTHS.

20. ALL NEW PLANT MATERIAL SHALL BE GUARANTEED FOR 1 YEAR FROM TIME OF FINAL ACCEPTANCE OF PROJECT. ANY PLANT MATERIAL NOT IN A HEALTHY GROWING CONDITION WILL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER WITHIN 10 DAYS OF NOTIFICATION. FOR ALL REPLACEMENT PLANT MATERIAL, THE WARRANTY PERIOD SHALL BE EXTENDED AN ADDITIONAL 45 DAYS BEYOND THE ORIGINAL WARRANTY PERIOD. ALL TREES THAT LEAN OR ARE BLOWN OVER, CAUSED BY WINDS LESS THAN 75 MPH, WILL BE RE-SET AND BRACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

21. THE SUCCESSFUL BIDDER SHALL FURNISH TO THE OWNER A UNIT PRICE BREAKDOWN FOR ALL MATERIALS. THE OWNER MAY, AT ITS DISCRETION, ADD OR DELETE FROM THE MATERIALS UTILIZING THE UNIT PRICE BREAKDOWN SUBMITTED.

22. NO PLANT MATERIAL WILL BE ACCEPTED SHOWING EVIDENCE OF CABLE, CHAIN MARKS, EQUIPMENT SCARS, OR OTHERWISE DAMAGED.

23. PLANT MATERIAL WILL NOT BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN CRACKED, BROKEN OR OTHERWISE DAMAGED.

24. ROOT-PRUNE ALL TREES A MINIMUM OF (8) WEEKS PRIOR TO PLANTING.

25. ALL LANDSCAPED AREAS WILL BE IRRIGATED BY AN UNDERGROUND, AUTOMATIC, RUST-FREE IRRIGATION SYSTEM PROVIDING 100% COVERAGE AND 100% SPRAY OVERLAP. THE SYSTEM SHALL BE MAINTAINED IN GOOD WORKING ORDER AND DESIGNED TO MINIMIZE WATER ON IMPERVIOUS SERVICES AND NOT OVERSPRAY WALKWAYS. A RAIN SENSOR DEVICE SHALL BE INSTALLED TO OVERRIDE THE IRRIGATION CYCLE OF THE SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED.

26. ALL PLANT MATERIAL PLANTED WITHIN THE SIGHT DISTANCE TRIANGLE AREAS (SEE PLAN) SHALL PROVIDE UNOBSTRUCTED CROSS-VISIBILITY AT A HORIZONTAL LEVEL BETWEEN 30 INCHES AND 8 FEET ABOVE ADJACENT STREET GRADE.

27. NO CANOPY TREES SHALL BE PLANTED WITHIN 12 FEET OF A LIGHT POLE. NO PALM SPECIES SHALL BE PLANTED WITHIN 6 FEET OF A LIGHT POLE.

28. GROUND COVER PLANTINGS SHALL PROVIDE NOT LESS THAN 50 PERCENT COVERAGE IMMEDIATELY UPON PLANTING AND 100 PERCENT COVERAGE WITHIN 6 MONTHS AFTER PLANTING.

29. TREE PROTECTION BARRICADES SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AROUND EXISTING TREES THAT MAY BE IMPACTED BY THE PROPOSED CONSTRUCTION. PRIOR TO ANY CONSTRUCTION A TREE PROTECTION BARRICADE INSPECTION SHALL BE CONDUCTED BY THE LANDSCAPE ARCHITECT, OWNER OR GOVERNING MUNICIPALITY. REFER TO LANDSCAPE DETAIL FOR TREE PRESERVATION BARRICADE FENCING.

30. IN ALL PEDESTRIAN AREAS, ALL TREES AND PALMS SHALL BE MAINTAINED TO ALLOW FOR CLEAR PASSAGE AT AN 8 FOOT CLEAR TRUNK.

31. ALL LANDSCAPE MATERIAL SHALL BE SETBACK A MINIMUM OF 10' FROM ANY FIRE HYDRANT.

32. TREE SUPPORT MATERIALS ARE TO BE REMOVED FROM EACH TREE ONCE IT IS 'ESTABLISHED.' THIS IS TO BE DONE SIX MONTHS FOR SHADE TREES AND ONE YEAR FOR PALMS.

NO.	DATE	REVISIONS	DES.	DWN.

SPORT CAMP PROJECT

LANDSCAPE PLAN

8434 NW 56 STREET DORAL , FL 33166

SEAL

REGISTERED LANDSCAPE ARCHITECT
CASTO MIGUEL JUNCAL
LA 6667184
STATE OF FLORIDA

Casto Miguel Juncal
Registered Landscape Architect
LA6667184
20449 SW 93rd Ave.
Cutler Bay, Fl 33189
ph: 786-877-2034
JuncalDesignStudio@gmail.com

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DES.	DWN.	CHK.

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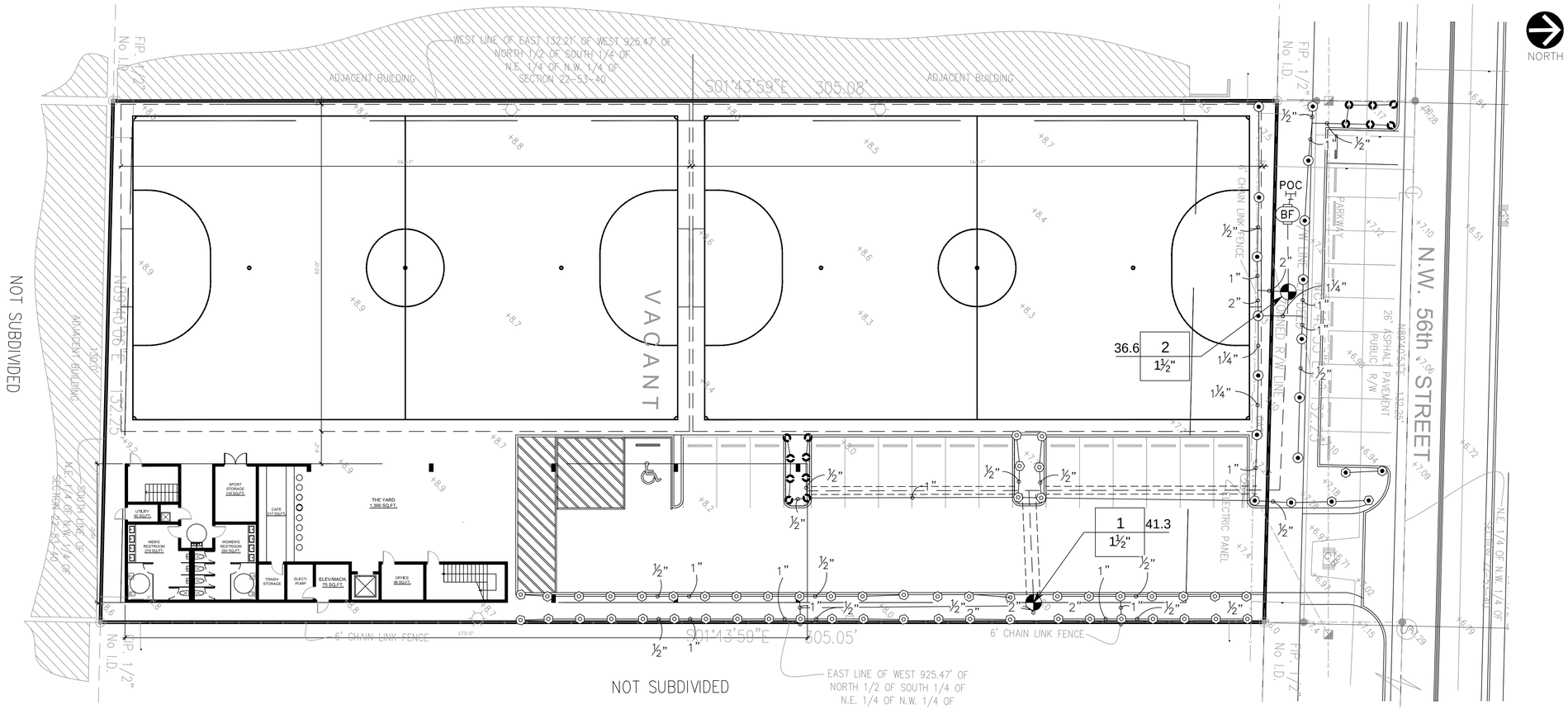
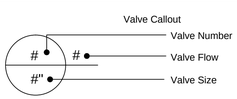
SHEET 2 OF 2



IRRIGATION_SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
4 6 8 10 12 15 17	HUNTER PROS-06 ADJUSTABLE ARC SHRUB SPRAY, 6" POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	80	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	HUNTER ICV-G 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	2	
BF	FEBCO 765 1-1/2" PRESSURE VACUUM BREAKER, BRASS WITH BALL VALVE SOV. INSTALL 12" ABOVE HIGHEST DOWNSTREAM OUTLET AND THE HIGHEST POINT IN THE DOWNSTREAM PIPING.	1	
POC	POINT OF CONNECTION 2" POTABLE WATER SOURCE	1	
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	650 LF	
	IRRIGATION MAINLINE: PVC SCHEDULE 40	190 LF	
	PIPE SLEEVE: PVC CLASS 200 SDR 21	137 LF	

Valve Callout



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM
1	HUNTER ICV-G	1-1/2"	SHRUB SPRAY	41.33
2	HUNTER ICV-G	1-1/2"	SHRUB SPRAY	36.63

NO.	DATE	REVISIONS	DES. DWN.

SPORT CAMP PROJECT

IRRIGATION PLAN

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CASTO MIGUEL JUNCAL
LA 6667184
STATE OF FLORIDA

Casto Miguel Juncal
Registered Landscape Architect
LA6667184
20449 SW 93rd Ave.
Cutler Bay, Fl 33189
ph: 786-877-2034
JuncalDesignStudio@gmail.com

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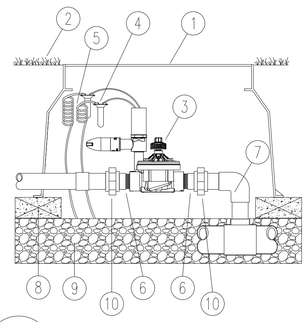
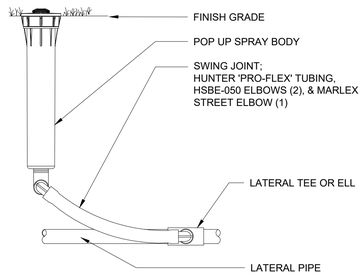
IRRIGATION DETAILS

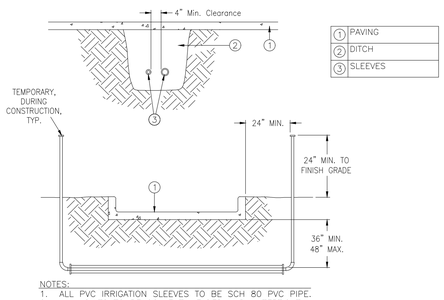


1. STANDARD VALVE BOX
2. FINISH GRADE
3. REMOTE CONTROL VALVE MODEL ICV-101G ACCU-SYNC-XX WITH FILTER SENTRY
4. WATERPROOF CONNECTORS (2)
5. 18-24" COILED WIRE
6. SCH 80 T.O.E. NIPPLE
7. MAIN LINE PIPE & FITTINGS
8. BRICK SUPPORTS (4)
9. 3/4" MINUS WASHED GRAVEL
10. PVC SLIP UNIONS

1 HUNTER ICV VALVE

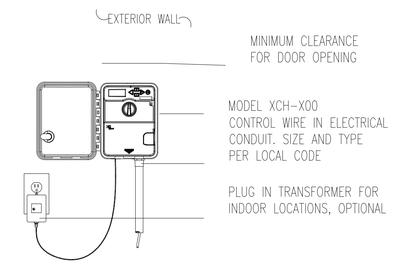


5 6" POP-UP SPRAY HEAD



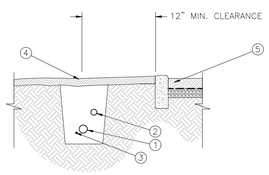
NOTES:
1. ALL PVC IRRIGATION SLEEVES TO BE SCH 80 PVC PIPE.
2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
3. MECHANICALLY TAMP TO 95% PROCTOR.

2 SLEEVING

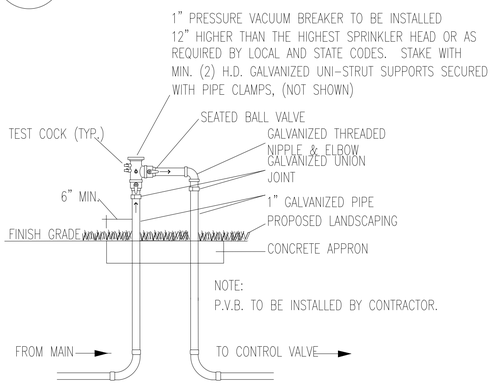


NOTE
SPECIFY 4, 6, 8, 10 OR 12 STATION MODEL CONTROLLER. MOUNT CONTROLLER WITH LCD SCREEN AT EYE LEVEL.

6 IRRIGATION CONTROLLER



3 MAINLINE AND LATERAL PIPE



NOTE:
P.V.B. TO BE INSTALLED BY CONTRACTOR.

4 BACKFLOW PREVENTER

IRRIGATION NOTES

1. CONTRACTOR TO VERIFY THE LOCATION OF WATER SOURCE
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING IRRIGATION SERVICE TO AREAS OUTSIDE OF THE CONSTRUCTION SITE THAT WOULD RESULT IN THE DISRUPTION OF SERVICE DURING CONSTRUCTION. THE CONTRACTOR WILL RESTORE/REPAIR ALL DAMAGED IRRIGATION LOCATED WITHIN THE CONSTRUCTION SITE OR ANY AREAS BEING USED BY THE CONTRACTOR, SUCH AS STAGING AREAS AND PARKING AREAS. IF ANY SOD/LANDSCAPING DIES INSIDE OR OUTSIDE THE CONSTRUCTION FENCE AS A RESULT OF IRRIGATION FAILURE DUE TO CONSTRUCTION, THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR RESTORING THE AREAS EXACTLY AS THEY WERE PREVIOUS TO CONSTRUCTION.
3. THE PROPOSED VALVES AND IRRIGATION HEADS ARE CONNECTED TO THE EXISTING IRRIGATION SYSTEM.
4. IRRIGATION SYSTEMS SHALL BE DESIGNED TO MEET THE NEEDS OF THE PLANTS IN THE LANDSCAPE.
5. THE CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, AND MATERIAL TO INSTALL A FULLY OPERATIONAL IRRIGATION SYSTEM.
6. ALL SPRINKLER HEADS SHALL BE INSTALLED WITH SWING .
7. IRRIGATION SLEEVES ARE REQUIRED UNDER HARDSCAPE AREAS SUCH AS PAVED AREAS, DRIVEWAYS, RETAINING WALLS, AND ALL OTHER HARD-WEARING MATERIALS SUCH AS STONE, CONCRETE SIDEWALKS, ROAD, ETC. ALL IRRIGATION SLEEVE PIPE SHALL BE SCHEDULE 40 PVC. SLEEVES SHALL BE 2 PIPE SIZES LARGER THAN THE RUNNING PIPE AND SHALL EXTEND 24" OUTWARD FROM EDGE OF ASPHALT/ROADWAY OR CONCRETESLAB. SLEEVES UNDER PAVED AREAS SHALL BE INSTALLED TO A MINIMUM DEPTH OF 24".
8. VALVES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND PIPE MANUFACTURER'S INSTRUCTIONS.
9. IRRIGATION MAIN PIPE SHALL BE SCHEDULE 40 PVC.
   LATERALS: CLASS 200
   SLEEVES: SCHEDULE 40
10. TOP OF VALVE BOXES AND SPRINKLER HEADS SHALL BE INSTALLED AT FINISH GRADE LEVEL.
11. MAINS SHALL BE @ 18" BELOW FINISH GRADE AND LATERALS BETWEEN 6" AND 12" (DEPENDING OF THE PIPE SIZE) BELOW FINISH GRADE.ALL IRRIGATION TRENCHES TO BE BACK FILLED WITH 100% SAND TO PREVENT PIPE RUPTURES.
12. ZONE CONTROLLING VALVES WILL BE ADJUSTED AND CONNECTED TO THE EXISTING CONTROLLER.
13. WHEN FEASIBLE, IRRIGATION SYSTEMS SHALL BE DESIGNED TO SEPARATELY SERVE TURF AND NON-TURF AREAS.
14. THE DESIGN SHALL CONSIDER SOIL, SLOPE, AND OTHER SITE CHARACTERISTICS IN ORDER TO MINIMIZE WATER WASTE, INCLUDING OVERSPRAY, WATERING OF IMPERVIOUS SURFACES AND OTHER NON-VEGETATED AREAS, AND OFF-SITE RUNOFF.
15. RAIN SWITCHES OR OTHER APPROVED DEVICES, SUCH AS SOIL MOISTURE SENSORS, TO PREVENT UNNECESSARY IRRIGATION SHALL BE INCORPORATED.
16. A RECOMMENDED SEASONAL OPERATING SCHEDULE AND AVERAGE PRECIPITATION RATES FOR EACH IRRIGATION ZONE FOR BOTH ESTABLISHMENT AND MAINTENANCE CONDITIONS SHALL BE PROVIDED.
17. SPRINKLER LOCATIONS SHALL BE COORDINATED WITH EXISTING AND PROPOSED PLANTING MATERIAL, SITE LIGHTING, UTILITIES, ETC. TO ENSURE PROPER COVERAGE WITH MINIMAL UNDESIRABLE OVERTHROW.
18. BEFORE ANY CONSTRUCTION START, A TEST OF THE IRRIGATION SYSTEM MUST BE CONDUCTED. THE CONTRACTOR, PROJECT MANAGER AND IRRIGATION TECHNICIAN MUST BE THERE TO SEE IF THERE ARE ANY INFRACTIONS THAT HAVE TO BE ADDRESSED.
19. TESTING FOR PRESSURE AND LEAKAGE SHALL BE ACCOMPLISHED UPON THE COMPLETION OF EACH SECTION OF ZONED PIPING. ALL RISERS SHALL BE INSTALLED PRIOR TO TESTING AND SHALL BE SUITABLE PLUGGED AND BLOCKED. THE CONTRACTOR SHALL ALLOW ALL SOLVENT-WELDED JOINTS TO CURE ACCORDING TO MANUFACTURER'S DIRECTION PRIOR TO PRESSURE TESTING. THE CONTRACTOR MAY NOT BACKFILL JOINTS BEFORE TESTING. IN THE EVENT OF AN UNSATISFACTORY TEST, THE CONTRACTOR WILL UNCOVER THE SECTIONS FOR LOCATION OF LEAKS AND MAKE THE REQUIRED REPAIRS.
20. ALL LINES SHALL BE FLUSHED AND ALL OUTLETS SHALL BE CAPPED AND PLUGGED BEFORE TESTING. PRESSURE TESTING (100 PSI FOR A MINIMUM OF ONE HOUR) SHALL BE CONDUCTED IN THE PRESENCE OF THE PROJECT MANAGER. TEST SHALL PASS WHEN THERE IS NO DETECTABLE CHANGE IN PRESSURE AT THE END OF ONE HOUR PERIOD. THE TESTING COST SHALL BE PAID FOR BY THE CONTRACTOR.
21. BACKFILL SHALL BE CAREFULLY PLACED TO AVOID PIPE DISLOCATION. BACKFILL MATERIAL SHALL BE FREE OF ROCKS, STUMPS, ROOTS, STONES, AND OTHER DEBRIS THAT COULD DAMAGE IRRIGATION SYSTEM COMPONENTS.
22. POP-UP ROTORS SHALL BE RAIN BIRD 5004 AND SPRAY HEADS SHALL BE RAIN BIRD 18006 SERIES. ROTORS FOR ATHLETIC FIELDS SHALL BE FALCON 6504 HIGH-SPEED #12 NOZZLE.
23. SIX INCH POP-UP SPRAYHEADS SHALL BE INSTALLED IN AREAS LANDSCAPED WITH SOD AND MULCH. TWELVE INCH POP-UP TYPE SPRAYHEADS SHALL BE INSTALLED IN AREAS LANDSCAPED WITH GROUNDCOVERS. BUBBLERS SHALL BE INSTALLED AT ROYAL PALMS AND LARGE TREES.
24. THE CONTRACTOR SHALL FULLY WARRANT THE IRRIGATION SYSTEM FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE. THE CONTRACTOR WILL RECEIVE A WRITTEN CONFIRMATION FROM THE LANDSCAPE ARCHITECT, AFTER ACCEPTANCE, WHICH WILL STATE THE DURATION OF WARRANTY PERIOD FROM BEGINNING TO END.

NO.	DATE	REVISIONS	DES.	DWN.

SPORT CAMP PROJECT

IRRIGATION NOTES AND DETAILS

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Casto Miguel Juncal
Registered Landscape Architect
LA6667184
20449 SW 93rd Ave.
Cutler Bay, Fl 33189
ph: 786-877-2034
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