

EXISTING TREES TO REMAIN

<u>GENERAL NOTES</u> ALL ASPHALT, LIMEROCK, AND CONSTRUCTION DEBRIS TO BE REMOVED FROM PLANTING BEDS AND AREAS TO BE SODDED PRIOR TO LANDSCAPE INSTALLATION. PLANTING DEPTH OF SOIL IN SUCH AREAS SHOULD BE AT LEAST 3'. IF FILL MUST BE ADDED, IT MUST BE FLORIDA CLEAN DEEP FILL (FREE OF WEED SEEDS) WITH pH 5.5-6.5.

CANOPY TREES SHALL BE A MINIMUM OF EIGHT (8) FEET IN HEIGHT AND ORNAMENTAL OR UNDERSTORY TREES SHALL HAVE A MINIMUM CALIPER OF ONE AND A HALF (1.5) INCHES, UNLESS OTHERWISE SPECIFIED BY THE LANDSCAPE ARCHITECT.

ALL TREES TO BE PLANTED 1"-2" ABOVE FINISHED GRADE.

ALL LANDSCAPED AREAS TO BE MULCHED WITH 3" THICKNESS OF MULCH. PINE BARK MULCH SHALL BE USED IN ALL AREAS.

LEADER SHOOTS AND MAIN STRUCTURAL LIMBS OF TREES WILL NOT BE TOPPED OR PRUNED. TREES TO BE STAKED AS NEEDED, GUYLINES TO BE NON-SYNTHETIC BIODEGRADABLE MATERIAL.

OWNER SHALL BE RESPONSIBLE FOR (1) THE SURVIVAL OF THE LANDSCAPING ELEMENTS AND (2) REMOVAL OF ALL STAKING SYSTEMS WITHIN ONE YEAR. TREES WILL BE STAKED ONLY IF NECESSARY, AND IF STAKED, BIODEGRADABLE TWINE WILL BE USED.

40 TREES

40 TREES

6 TREES

149 TREES

. 189 TREES

\$15,733.64

223"

GRASSING
ALL DISTURBED AND UNPAVED AREAS TO BE GRASSED WITH NOXIOUS WEED AND ALL DISTURBED AND UNPAVED AREAS TO BE GRASSED WITH NOXIOUS WEED AND ALL DISTURBED AND MULICHED. SEE CIVIL SITE PLA TROPICAL SODA APPLE FREE SOD OR SEEDED AND MULCHED. SEE CIVIL SITE PLANS FOR ADDITIONAL RELATED INFORMATION.

PLANT MATERIAL

ALL PLANT MATERIAL TO BE FLORIDA NO.1 OR BETTER, GRADED IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS PUBLISHED BY THE STATE OF FLORIDA,

TREE MITIGATION
TREE MITIGATION FOR THE REGULATED TREES TO BE REMOVED SHALL BE PROVIDED ON A 1 FOR 1 BASIS. TREE MITIGATION FOR HERITAGE TREES TO BE REMOVED SHALL BE

10% OPEN SPACE REQUIREMENT

CITY OF ALACHUA LDR SECTION 6.7.3 (A) STATES THAT THE MINIMUM OPEN SPACE SET—ASIDE SHALL BE 10% OF THE DEVELOPMENT SITE. THIS REQUIREMENT IS MET BY THE CALCULATIONS FOR 30% LANDSCAPE, SHOWN ADJACENT, WHICH INCLUDE LANDSCAPED BUFFERS AND OTHER LANDSCAPED AREAS.

LANDSCAPE IRRIGATION TO BE PROVIDED BY AUTOMATIC IRRIGATION SYSTEM IN ACCORDANCE WITH CITY OF ALACHUA LDR SECTION 6.2.2(D)(6)(B)(VI). SEE SHEET L-303 NOTE: CALCULATIONS ON THIS SHEET INCLUDE EXISTING PHASE 1 PLANTINGS, POD A PLANTINGS, AND PROPOSED POD B PLANTINGS. THE ENTIRE SITE AREA IS 14.50 ACRES AND INCLUDES PHASE 1, POD A, POD B, AND POD C (FUTURE DEVELOPMENT). POD CALCULATIONS BUILD ON EACH OTHER AS PODS ARE CONSTRUCTED. SEE SHEET L-200 FOR POD A CALCULATIONS AND SEE SHEET L-400 FOR POD C CALCULATIONS.

PLANT SCHEDULE

<u>SHRUBS</u>

VOS

LEM

SOD

SOD/SEED

GROUND COVERS

13

387

<u>QTY</u>

BOTANICAL NAME

BETULA NIGRA 'DURA HEAT'

FRAXINUS PENNSYLVANICA

LIRIODENDRON TULIPIFERA

PODOCARPUS MACROPHYLLUS

TAXODIUM DISTICHUM

BUXUS MICROPHYLLA

ULMUS ALATA

BOTANICAL NAME

BOTANICAL NAME

QUERCUS VIRGINIANA 'CATHEDRAL'

ILEX CORNUTA 'DWARF BURFORDII'

VIBURNUM ODORATISSIMUM

RHAPHIOLEPIS INDICA 'ELEANOR TABOR'

LIRIOPE MUSCARI 'EMERALD GODDESS'

PASPALUM NOTATUM 'ARGENTINE'

VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'

LAGERSTROEMIA INDICA 'MUSKOGEE'

MAGNOLIA GRANDIFLORA 'BRACKEN'S BROWN BEAUTY'

COMMON NAME

GREEN ASH

TULIP TREE

PODOCARPUS

BALD CYPRESS

COMMON NAME

SWEET VIBURNUM

COMMON NAME

COMMON NAME

FULL LENGTH OF SOUTHERN PROPERTY BOUNDARY ALONG U.S. HWY. 441

BAHIA GRASS

ARTERIAL FRONTAGE BUFFER [Sec. 6.2.3(E)]

DESCRIPTION

U.S. HWY. 441

(873 LIN. FT.)

DESCRIPTION

PERIMETER

LANDSCAPE

PARKING AREA

INTERIOR PARKING

AREA LANDSCAPE

DESCRIPTION

(NORTH SIDE)

(SOUTH SIDE)

PRIMARY SIDE CANOPY TREES

REAR SIDE CANOPY TREES

EAST SIDE CANOPY TREES

WEST SIDE CANOPY TREES

SITE UNDERSTORY TREES

BUILDING FACADE (POD B)

ENTIRE SITE

(MIN. 30%)

30% LANDSCAPED AREA REQUIREMENT

Element, Objective 2.4, Policy 2.4.a

Per City of Alachua Comprehensive Plan Future Land Use

DWARF BURFORD HOLLY

EMERALD GODDESS LIRIOPE

LANDSCAPE REQUIREMENTS

3 UNDERSTORY TREES PER 100 LIN. FT.

44 CANOPY TREES REQUIRED

CONTINUOUS HEDGE REQUIRED

PARKING AREA LANDSCAPE REQUIREMENTS [Sec. 6.2.2(D)(2)(a) & (b)]

PARKING PERIMETER = 1,903 L.F.

4 CANOPY TREES PER 100 L.F.

2 UNDERSTORY/ORNAMENTAL

CONTINUOUS ROW OF SHRUBS

77 CANOPY TREES REQUIRED

CONTINUOUS ROW OF SHRUBS

PARKING AREA = 115,451 S.F.

10 SHRUBS REQUIRED PER

58 CANOPY TREES REQUIRED 578 SHRUBS REQUIRED

TREE REQUIREMENTS

= 29 TREES REQUIRED

= 29 TREES REQUIRED

= 29 TREES REQUIRED

3 TREES PER ACRE X 6.85 ACRES

2 TREES PER ACRE X 14.5 ACRES

2 TREES PER ACRE X 14.5 ACRES

2 TREES PER ACRE X 14.5 ACRES

6 UNDERSTORY TREES PER ACRE X 6.85

6 UNDERSTORY TREES PER ACRE X 14.5

ACRES (POD B + POD C) X 50% IN

ACRES (ENTIRE SITE) X 25% ON EAST

6 UNDERSTORY TREES PER ACRE X 14.5

ACRES (ENTIRE SITE) X 25% ON WEST SIDE = 22 TREES REQUIRED

4 CANOPY TREES PER 100 LIN. FT.

633,271 S.F.

317,261 S.F.

REQUIRED = 14 CANOPY TREES REQUIRED | ROW OF SHRUBS PROVIDED

FRONT = 21 TREES REQUIRED

SIDE = 22 TREES REQUIRED

349 LINEAR FEET

+ ROW OF SHRUBS

= 21 CANOPY TREES REQUIRED

ENTIRE SITE EXCEPT FOR PRIMARY SIDE CANOPY TREES AND SITE UNDERSTORY TREES FOR THE FRONT, WHICH ARE CALCULATED

CANOPY TREE REQUIRED

CANOPY TREE REQUIRED PER

38 UNDERSTORY TREES REQUIRED

EXISTING PARKING IN POD 1, POD A, AND PROPOSED POD B PARKING AREA

LANDSCAPE REQUIRED

PER 100 L.F.

2.000 S.F.

SITE LANDSCAPE CALCULATIONS [Sec. 6.2.2(D)(1)(c)]

UTILIZING COMBINED ACREAGE FOR PODS B & C

5 CANOPY TREES PER 100 LIN. FT. REQUIRED =

REQUIRED = 26 UNDERSTORY TREES REQUIRED

ELEANOR TABOR INDIAN HAWTHORN

MRS. SCHILLER'S DELIGHT VIBURNUM 24" HEIGHT, MIN.

WINGED ELM

BOXWOOD

CATHEDRAL LIVE OAK

DURA HEAT RIVER BIRCH

MUSKOGEE CRAPE MYRTLE

BRACKEN'S BROWN BEAUTY MAGNOLIA

<u>SIZE</u> 1]" CALIPER, MIN.

8' HEIGHT, MIN.

1½" CALIPER, MIN.

8' HEIGHT, MIN.

8' HEIGHT, MIN.

13" CALIPER, MIN.

8' HEIGHT, MIN.

8' HEIGHT, MIN.

8' HEIGHT, MIN.

24" HEIGHT, MIN.

LANDSCAPE PROVIDED

77 CANOPY TREES PROVIDED

58 CANOPY TREES PROVIDED

578 SHRUBS PROVIDED

38 UNDERSTORY TREES PROVIDED

CONTINUOUS ROW OF SHRUBS PROVIDED

TREES PROVIDED

21 CANOPY TREES PROVIDED

29 CANOPY TREES PROVIDED

29 CANOPY TREES PROVIDED

29 CANOPY TREES PROVIDED

FRONT SIDE
21 UNDERSTORY TREES PROVIDED

<u>EAST SIDE</u> 22 UNDERSTORY TREES PROVIDED

22 UNDERSTORY TREES PROVIDED

REFERENCE MAP

14 CANOPY TREES PROVIDED

WEED FREE AND SAND GROWN SOD

LANDSCAPE PROVIDED

26 UNDERSTORY TREES PROVIDED

44 CANOPY TREES PROVIDED

CONTINUOUS HEDGE PROVIDED

UNDERSTORY

CANOPY

CANOPY

CANOPY

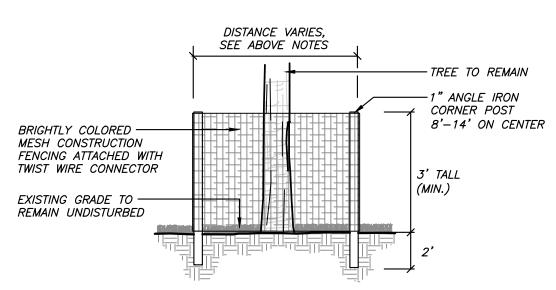
CANOPY

CANOPY

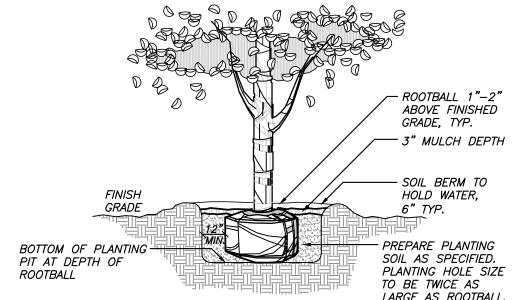
CANOPY

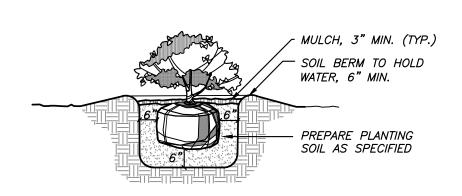
PERIMETER BUFFER LANDSCAPE REQUIREMENTS [Section 6.2.2(D)(3)] FULL LENGTH OF SITE, FROM U.S. HWY. 441 TO C.R. 2054

LOCATION	BUFFER LENGTH & TYPE	LANDSCAPE REQUIRED	LANDSCAPE PROVIDED
EASTERN PERIMETER	769 L.F. BUFFER TYPE 'C'	<u>OPTION 1</u> 1 CANOPY TREE / 30 LIN. FT. + EVERGREEN HEDGE	26 PROPOSED CANOPY TREES CONTINUOUS EVERGREEN HEDGE
WESTERN PERIMETER	793 L.F. BUFFER TYPE 'C'	<u>OPTION 1</u> 1 CANOPY TREE / 30 LIN. FT. + EVERGREEN HEDGE	27 PROPOSED CANOPY TREES CONTINUOUS EVERGREEN HEDGE









REQUIRED TREE MITIGATION

REGULATED TREE MITIGATION

TREES REQUIRED FOR MITIGATION

HERITAGE TREE MITIGATION

INCHES REQUIRED FOR MITIGATION

REPLACEMENT TREES REQUIRED ...

(AT INCH-FOR-INCH REPLACEMENT)..

TOTAL TREE MITIGATION PAYMENT

TOTAL REPLACEMENT TREES REQUIRED ..

TOTAL REPLACEMENT TREES PROPOSED
TOTAL MITIGATION DEFICIT.....

TOTAL MITIGATION PAYMENT REQUIRED

*ESTIMATED COST OF REPLACEMENT TREE, SEE ATTACHED "TREE

<u>NOTE:</u> A MITIGATION PAYMENT SHALL BE PROVIDED IN LIEU OF

ON-SITE REPLACEMENT TREES. FEES FOR TREE MITIGATION

SHALL BE PAID TO THE CITY PRIOR TO THE ISSUANCE OF ANY

BUILDING PERMIT FOR NEW CONSTRUCTION WITH AN APPROVED

ESTIMATED COST PER TREE*...

MITIGATION MEMO."

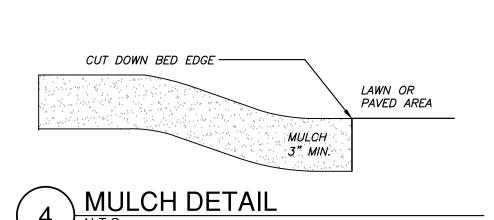
SITE PLAN.

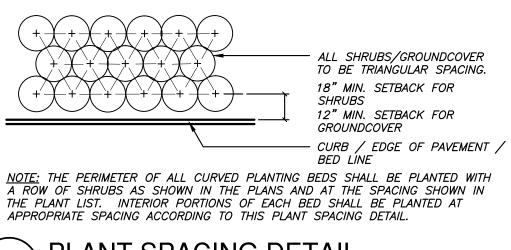
HERITAGE TREES REMOVED ...

REGULATED TREES REMOVED ...

(AT 1:1 REPLACEMENT)...

SHRUB PLANTING DETAIL





TOTAL SITE AREA... TOTAL PROPOSED LANDSCAPED AREA.. LANDSCAPED AREA % OF TOTAL SITE AREA...... 50.1% PLANT SPACING DETAIL

UNDERSTORY UNDERSTORY

<u>SPACING</u>

18" o.c.

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DATE

09/27/16

10/10/16

10/17/16

06/30/16

REVISIONS

NO.	DESCRIPTION	
	CITY OF ALACHUA REVIEW	
	CITY OF ALACHUA REVIEW	
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DATE	EISSUED:	
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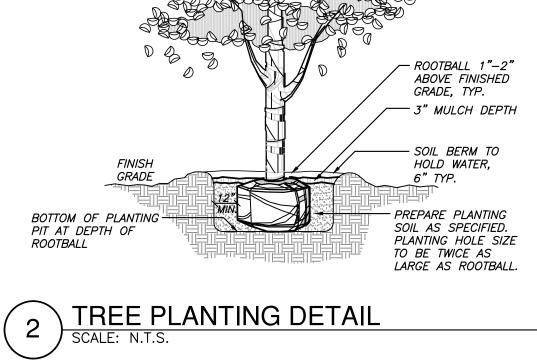
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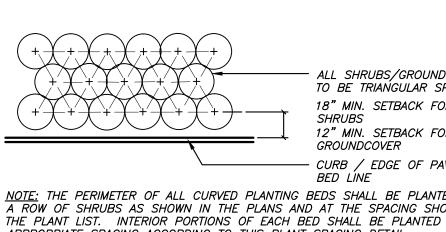
LANDSCAPE NOTES, DETAILS, & CALCULATIONS -POD B

SHEET NUMBER

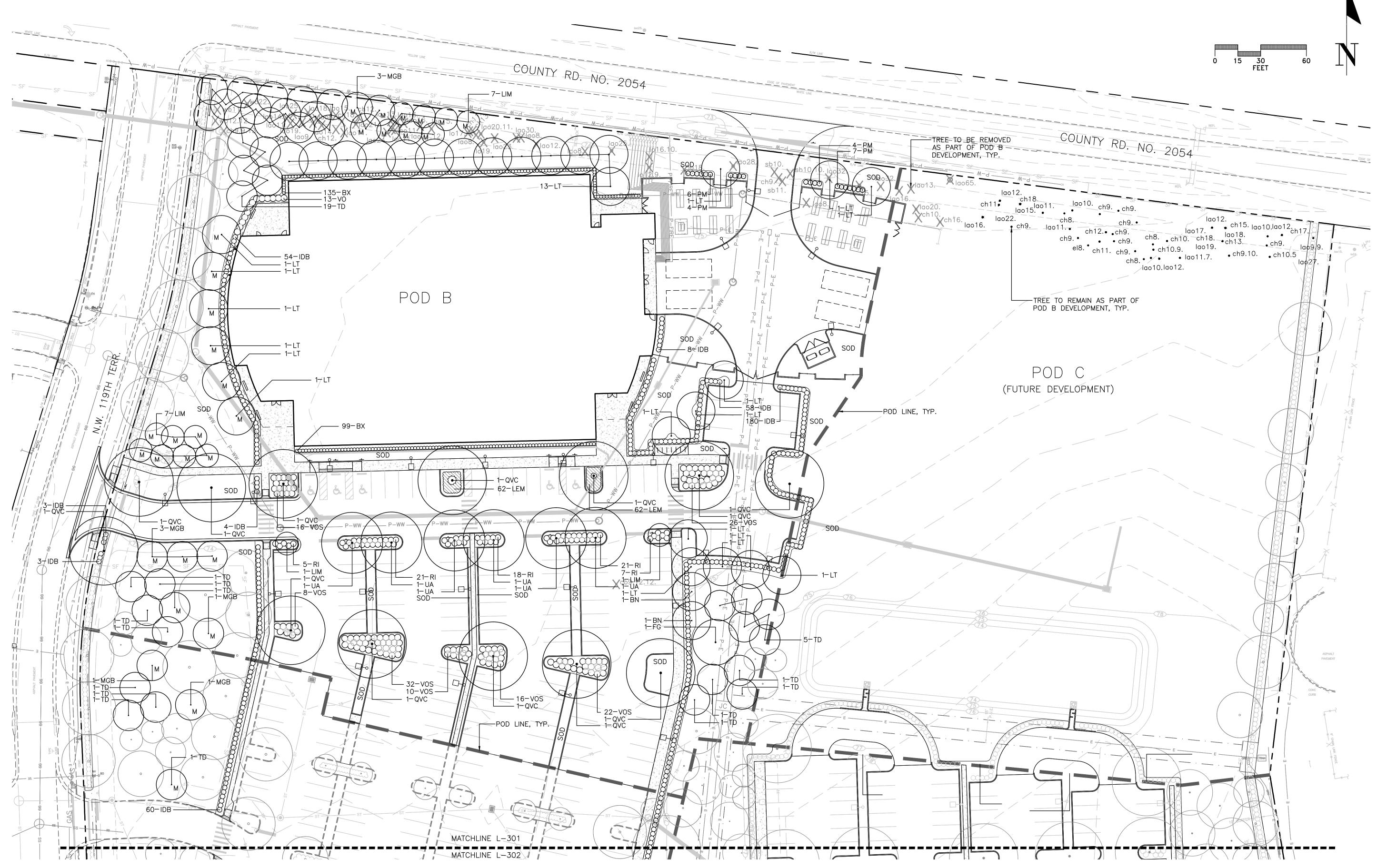
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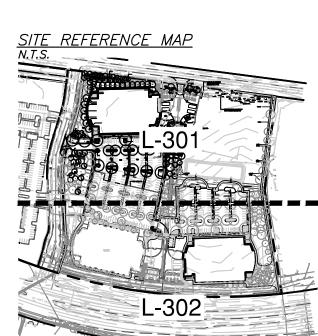
CITY **SUBMITTAL**





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	CITY OF ALACHUA REVIEW	10/17/16
DATE	EISSUED:	06/30/1
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 SCALE:
 1" = 30'-0"

 DRAWN BY:
 CMT

 REVIEWED BY:
 CEM

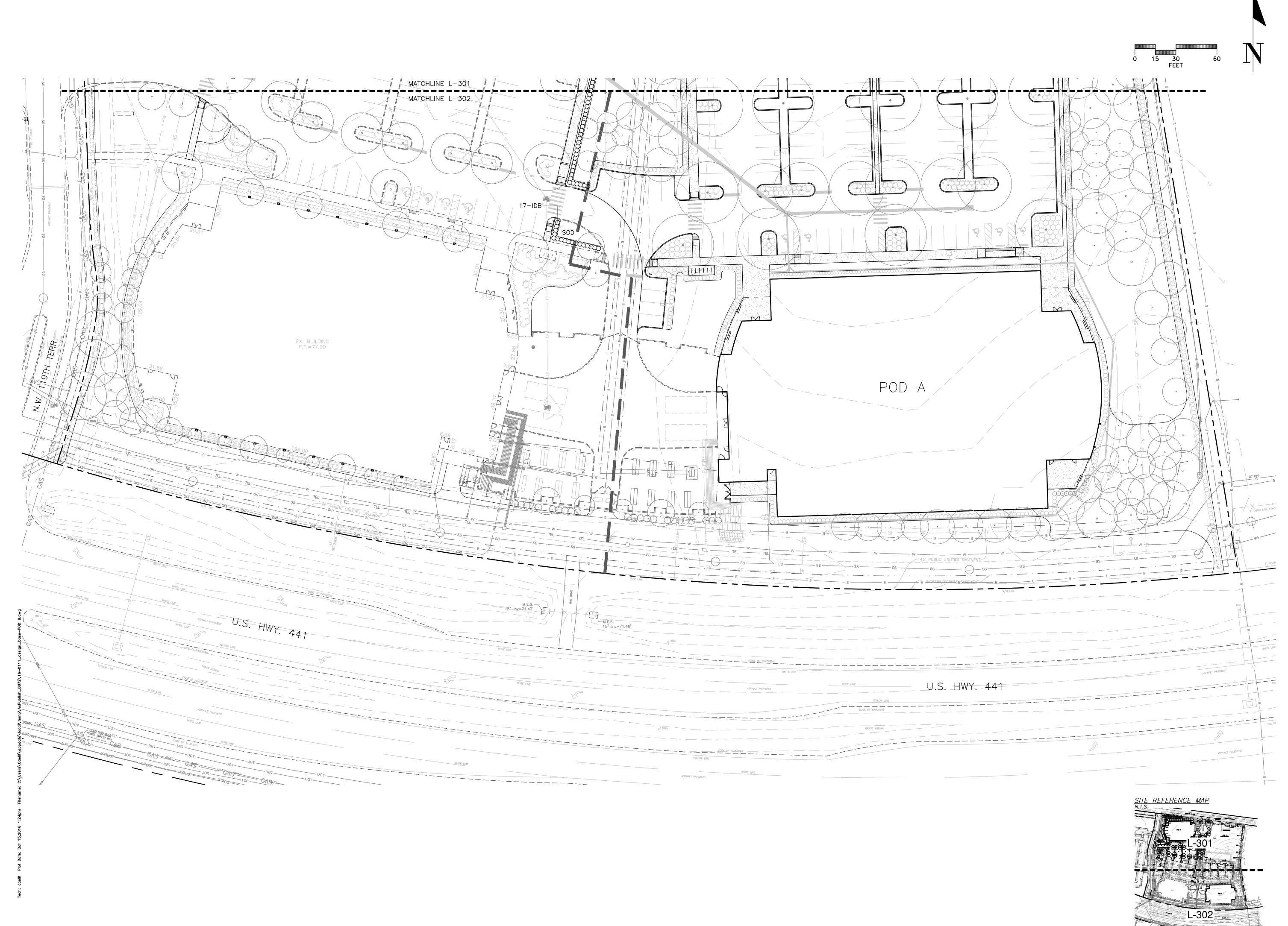
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LANDSCAPE PLAN
- POD B

SHEET NUMBER

L-301





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	CITY OF ALACHUA REVIEW	10/17/16
DATE	E ISSUED:	06/30

 SCALE:
 1" = 30'-0"

 DRAWN BY:
 CMT

 REVIEWED BY:
 CEM

CHW PROJECT NUMBER 16-0111

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LANDSCAPE PLAN - POD B

SHEET NUMBER

L-302

1.0 GENERAL

1.1 SUMMARY: Includes but not limited to:

A. Furnishing and installing sprinkler system as described in Contract Documents complete with accessories necessary for proper functioning.

1.2 SYSTEM DESCRIPTION:

A. Design Requirements:

1. Layout of Irrigation Heads: a. Location of heads shown on Drawings is approximate. Actual placement may vary slightly as is required to achieve full, even coverage without spraying onto buildings, sidewalks,

b. During layout, consult with Landscape Architect to verify proper placement and make recommendations, where revisions are advisable.

1.3 QUALITY ASSURANCE: A. Regulatory Requirements:

1. Work and materials shall be in accordance with latest rules and regulations, and other applicable state or local laws. Nothing in Contract Documents is to be construed to permit work not conforming to these codes. B. Pre-Installation Conference:

1. Meet with Owner and Landscape Architect to discuss and clarify all aspects of job requirements prior to commencing work of this Section.

C. System Adjustments:

1. Minor adjustments in system will be permitted to avoid existing fixed obstructions.

2. Mainline, laterals, and valves are shown for clarity purposes only. All irrigation equipment to be with landscape area. Mainline, laterals and valves to be installed as far away from existing and new specimen trees as possible.

D. 1. Documentation and submittal of actual water supply performance prior to commencing installation.

1.4 SUBMITTALS:

A. Record Drawings: 1. Prepare an accurate as-built drawing as installation proceeds to be submitted prior to final

inspection. Drawing shall include: a. Detail and dimension changes made during construction.

b. Significant details and dimensions not shown in original Bidding Documents. 2. Maintain, at job site, one copy of Contract Documents (as defined in General Conditions) and

relevant shop drawings. 3. Clearly mark each document "PROJECT RECORD COPY" and maintain in good condition for use of

the Landscape Architect and Owner. 4. As-built drawing shall be provided in PDF format.

delivered to the Landscape Architect.

5. Submit product literature for all sprinklers, valves, pipe, wire, wire connectors and controller. 6. Final payment for system will not be authorized until accurate and complete submittals are

B. Instruction Manual: 1. Provide instruction manual which lists complete instructions for system operation and

maintenance.

1.5 PRODUCT STORAGE:

A. During construction and storage, protect materials from damage and prolonged exposure to sunlight.

1.6 WARRANTY:

A. Standard one (1) year warranty stipulated in General Conditions shall include: Completed system including parts and labor.

2. Filling and repairing depressions and replacing plantings due to settlement of irrigation trenches for one (1) year following final acceptance. 3. System adjustment to supply proper coverage to areas to receive water.

1.7 MAINTENANCE:

A. Extra Materials: 1. In addition to installed system, furnish Owner with the following items at close-out:

> a. Two sprinkler head bodies of each size and type. b. Two nozzles for each size and type.

c. Two adjusting keys for each sprinkler head cover type.

2.0 PRODUCTS:

2.1 PIPE, PIPE FITTINGS, AND CONNECTIONS:

A. Pipe shall be continuously and permanently marked with Manufacturer's name, size, schedule, type,

and working pressure. B. Pipe:

1. Pressure Lines: as indicated on plans. Lateral Lines: as indicated on plans.

3. Risers: sch. 80 PVC, gray C. Fittings:

1. Schedule 40 PVC. D. Sleeving:

1. Schedule 40 PVC.

2.2 SPRINKLER HEADS: A. Conform to requirements shown on Drawings as to type, radius of throw, pressure, and discharge.

2.3 AUTOMATIC SPRINKLER SYSTEM:

A. Control valves shall be of size and type indicated on Drawings. B. Control wire shall be UL listed, color coded copper conductor direct burial size 14.

Use 3M-DBY waterproof wire connectors at splices and locate all splices within valve boxes. Use white or gray color for common wire and other colors for all other wire. Each common

wire may serve only one controller. C. Add two extra control wires from panel to valves for use if a wire fails and mark them in the control box as an extra wires. These wires shall be of a different color than the others.

2.4 VALVES:

A. Electric Valves: 1. Make and model shown on Drawings.

> B. Gate valves: 1. Bronze construction, angle type, 150 pound class, threaded connections, with cross-type

operating handle designed to receive operating key. C. Automatic Controller:

1. Make and model shown on Drawings. D. Backflow Preventor:

1. Make and model shown on Drawings.

2.5 VALVE ACCESSORIES:

A. Valve Boxes 1. Ametek or Brooks rectangular heavy duty valve box with locking lid or Landscape Architect approved equal.

2. Do not install more than one (1) valve in a single box.

3. Valve boxes shall be large enough for easy removal or maintenance of valves.

3.0 EXECUTION:

3.1 PREPARATION: A. Protection:

1. Work of others damaged by this Section during course of its work shall be replaced or repaired by original installer at this Section's expense

3.2 INSTALLATION: A. Trenching and Backfilling: 1. Over-excavate trenches by two (2") inches and bring back to indicated depth by filling with fine,

2. Cover pipe both top and sides with two (2") inches of material specified in paragraph above. In no case shall there be less than two (2") inches of rock-free soil or sand surrounding pipe.

B. Installation of Plastic Pipe: 1. Install plastic pipe in a manner to provide for expansion and contraction as recommended by

2. Unless otherwise indicated on Drawings, install main lines with a minimum cover of eighteen (18")

inches based on finish grade. Install lateral lines with a minimum cover of twelve (12") inches based on finish grade.

3. Install pipe and wires under driveways or parking areas in specified sleeves a minimum of twenty-four (24") inches below finish grade or as shown on Drawings.

4. Locate no sprinkler head closer than twelve (12") inches from building foundation. Heads immediately adjacent to mowing strips, walks or curbs shall be one (1") inch below top of mowing strip, walk or curb and have a minimum of one (12") inch clearance between head and

walk or curb. 5. Drawings show arrangement of piping. Should local conditions necessitate rearrangement, obtain approval of Landscape Architect prior to proceeding with work.

6. Cut plastic pipe square. Remove burrs at cut ends prior to installation so unobstructed flow will 7. Make solvent weld joints in the following manner:

a. Clean mating pipe and fitting with clean, dry cloth and apply one (1) coat of P-70 primer to

b. Apply uniform coat of 711 solvent to outside of pipe. c. Apply solvent to fitting in similar manner.

d. Reapply a light coat of solvent to pipe and quickly insert into fitting. e. Give pipe or fitting a quarter turn to insure even distribution of solvent and make sure pipe is inserted to full depth of fitting socket.

f. Hold in position for fifteen (15) seconds minimum or long enough to secure joint. g. Wipe off solvent appearing on outer shoulder of fitting.

h. Do not use an excessive amount of solvent thereby causing an obstruction to form on the inside of pipe.

i. Allow joints to set at least 24 hours before applying pressure to PVC pipe. 8. Tape threaded connection with teflon tape.

9. Install concrete thrust blocks wherever change of direction occurs a PVC main pressure lines unless otherwise detailed on Drawings.

C. Control Valves and Controller: 1. Install controller, control wires, and valves in accordance with Manufacturer's recommendations

and according to applicable electrical code. 2. Install valves in plastic boxes with reinforced heavy duty plastic covers. Locate valve box tops at

3. Install remote control valves in valve boxes positioned over valve so all parts of valve can be reached for service. Set cover of valve box even with finish grade.

4. Install all valve boxes over nine (9") inches of gravel for drainage. D. Sprinkler Heads:

1. Prior to the installation of sprinkler heads, open control valves and use full head of water to flush

2. Set sprinkler heads perpendicular to finish grade. 3. Set lawn sprinkler heads adjacent to existing walks, curbs, and other paved areas to grade.

E. Dripline: 1. Install 6" pop up spray and closed nozzle by drip zone control valves to be used as zone operation

2. Stake dripline every eight feet with 6" sod staple.

3.3 ADJUSTMENT AND CLEANING: A. Adjust heads to proper grade when turf is sufficiently established to allow walking on it without

appreciable harm. Such lowering or raising of of heads shall be part of the original contract with no additional charge to the Owner. B. Adjust sprinkler heads for proper distribution and trim to ensure spray does not fall on building. C. Adjust watering time of valves to provide proper amounts of water to all plants.

3.4 DEMONSTRATION:

A. After system is installed and approved, instruct Owners Representative in complete operation and

END OF SECTION



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GRADE; USE EXTENSION IF ZONE VALVE 1 CF. GRAVEL SUMP AND TAPE OPEN AREAS AS NECESSARY TO PREVENT SILTATION. - PIPING TO ZONE SCH. 80 NIPPLE TO FIRSTS FITTING

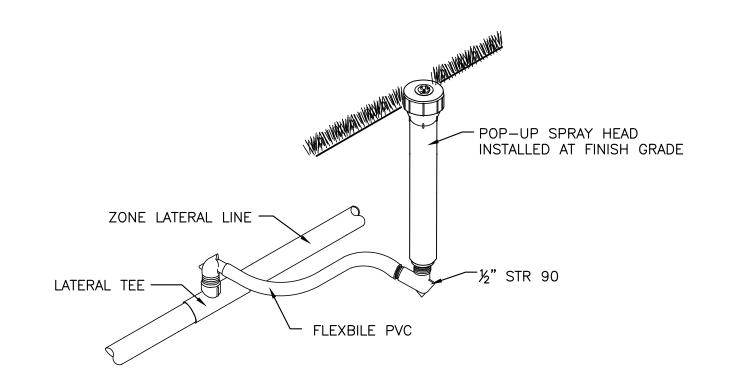
WIRING TO CONTROLLER;

VALVE BOX MOUNTED AT

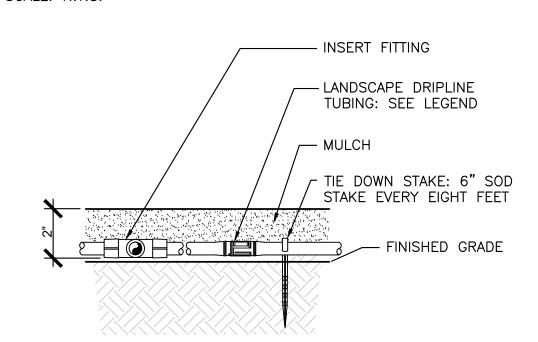
PROVIDE EXPANSION COILS

INSTALL TOP OF VALVE A MAXIMUM OF 15" FROM FINISHED GRADE.

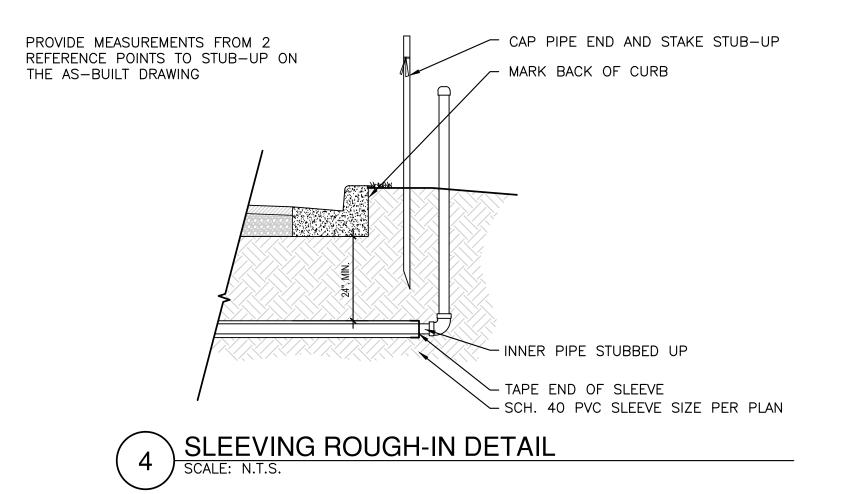
ZONE VALVE INSTALLATION DETAIL



SPRAY HEAD INSTALLATION DETAIL



DRIPLINE INSTALLATION DETAIL





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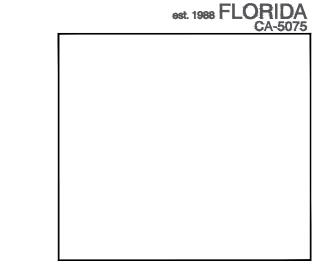


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REVISIONS

DATE DESCRIPTION CITY OF ALACHUA REVIEW 09/27/16 CITY OF ALACHUA REVIEW 10/10/16 CITY OF ALACHUA REVIEW DATE ISSUED: 06/30/16 SCALE: N/A **DRAWN BY:** CMT **REVIEWED BY:** CEM

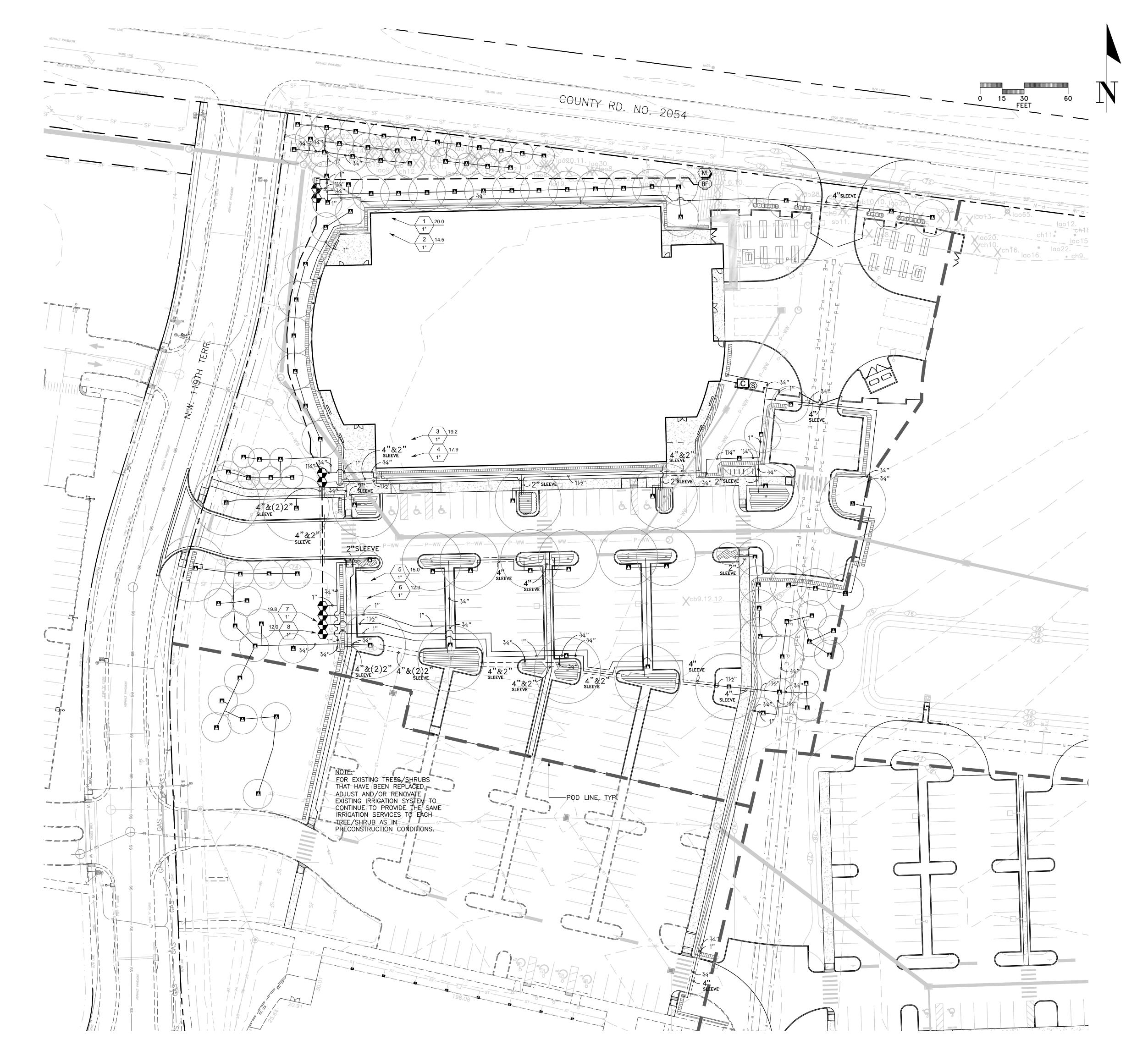
CHW PROJECT NUMBER

16-0111

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IRRIGATION DETAILS & SPECIFICATIONS -POD B

SHEET NUMBER





10748 Deerwood Park Blvd. South Jacksonville, Florida 32256-0597 904-256-2500 Fax 904-256-2503 www.rsandh.com FL Cert. Nos. AAC001886 * IB26000956 * 5620 * LCC000210 * GB238



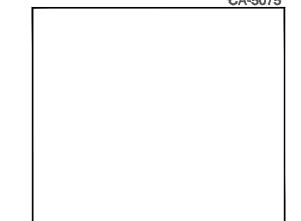


14193 NW 119TH TERRACE ALACHUA, FL 32615

CONSULTANTS



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REVISIONS

NO.	DESCRIPTION	DATE
	CITY OF ALACHUA REVIEW	09/27/16
	CITY OF ALACHUA REVIEW	10/10/16
	CITY OF ALACHUA REVIEW	10/17/16
DATE	E ISSUED:	06/30/1

 DATE ISSUED:
 06/30/16

 SCALE:
 1" = 30'-0"

 DRAWN BY:
 CMT

CHW PROJECT NUMBER

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IRRIGATION PLAN - POD B

SHEET NUMBER

L-304

NEW TREES TO BE ADDED

EXISTING TREES TO REMAIN

REQUIRED TREE MITIGATION

MITIGATION MEMO."

SITE PLAN.

<u> </u>	
REGULATED TREE MITIGATION	
REGULATED TREES REMOVED	16 TREES
TREES REQUIRED FOR MITIGATION (AT 1:1 REPLACEMENT)	16 TREES
HERITAGE TREE MITIGATION	
HERITAGE TREES REMOVED	1 TREES
INCHES REQUIRED FOR MITIGATION (AT INCH-FOR-INCH REPLACEMENT)	27"
REPLACEMENT TREES REQUIRED	18 TREES
TOTAL TREE MITIGATION PAYMENT	
TOTAL REPLACEMENT TREES REQUIRED TOTAL REPLACEMENT TREES PROPOSED TOTAL MITIGATION DEFICIT	14 TREES 20 TREES
ESTIMATED COST PER TREE* TOTAL MITIGATION PAYMENT REQUIRED	\$ 1,991.60
*ESTIMATED COST OF REPLACEMENT TREE, SEE ATT	ACHED "TRI

NOTE: A MITIGATION PAYMENT SHALL BE PROVIDED IN LIEU OF ON—SITE REPLACEMENT TREES. FEES FOR TREE MITIGATION

SHALL BE PAID TO THE CITY PRIOR TO THE ISSUANCE OF ANY

BUILDING PERMIT FOR NEW CONSTRUCTION WITH AN APPROVED

GENERAL NOTES
ALL ASPHALT, LIMEROCK, AND CONSTRUCTION DEBRIS TO BE REMOVED FROM PLANTING BEDS AND AREAS TO BE SODDED PRIOR TO LANDSCAPE INSTALLATION. PLANTING DEPTH OF SOIL IN SUCH AREAS SHOULD BE AT LEAST 3'. IF FILL MUST BE ADDED, IT MUST BE FLORIDA CLEAN DEEP FILL (FREE OF WEED SEEDS) SANDY LOAM WITH pH 5.5-6.5.

CANOPY TREES SHALL BE A MINIMUM OF EIGHT (8) FEET IN HEIGHT AND ORNAMENTAL OR UNDERSTORY TREES SHALL HAVE A MINIMUM CALIPER OF ONE AND A HALF (1.5) INCHES, UNLESS OTHERWISE SPECIFIED BY THE LANDSCAPE ARCHITECT.

ALL TREES TO BE PLANTED 1"-2" ABOVE FINISHED GRADE. ALL LANDSCAPED AREAS TO BE MULCHED WITH 3" THICKNESS OF MULCH. PINE BARK MULCH SHALL BE USED IN ALL AREAS. LEADER SHOOTS AND MAIN STRUCTURAL LIMBS OF TREES WILL NOT BE TOPPED OR PRUNED. TREES TO BE STAKED AS NEEDED, GUYLINES TO BE NON—SYNTHETIC BIODEGRADABLE MATERIAL.

OWNER SHALL BE RESPONSIBLE FOR (1) THE SURVIVAL OF THE LANDSCAPING ELEMENTS AND (2) REMOVAL OF ALL STAKING SYSTEMS WITHIN ONE YEAR. TREES WILL BE STAKED ONLY IF NECESSARY, AND IF STAKED, BIODEGRADABLE TWINE WILL BE USED.

GRASSING
ALL DISTURBED AND UNPAVED AREAS TO BE GRASSED WITH NOXIOUS WEED AND TROPICAL SODA APPLE FREE SOD OR SEEDED AND MULCHED. SEE CIVIL SITE PLANS FOR ADDITIONAL RELATED INFORMATION.

PLANT MATERIAL
ALL PLANT MATERIAL TO BE FLORIDA NO.1 OR BETTER, GRADED IN ACCORDANCE WITH
GRADES AND STANDARDS FOR NURSERY PLANTS PUBLISHED BY THE STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.

TREE MITIGATION
TREE MITIGATION FOR THE REGULATED TREES TO BE REMOVED SHALL BE PROVIDED ON
A 1 FOR 1 BASIS. TREE MITIGATION FOR HERITAGE TREES TO BE REMOVED SHALL BE
PROVIDED ON AN INCH—FOR—INCH BASIS.

10% OPEN SPACE REQUIREMENT CITY OF ALACHUA LDR SECTION 6.7.3 (A) STATES THAT THE MINIMUM OPEN SPACE SET—ASIDE SHALL BE 10% OF THE DEVELOPMENT SITE. THIS REQUIREMENT IS MET BY THE CALCULATIONS FOR 30% LANDSCAPE, SHOWN BELOW, WHICH INCLUDE LANDSCAPED BUFFERS AND OTHER LANDSCAPED AREAS.

<u>IRRIGATION</u>
LANDSCAPE IRRIGATION TO BE PROVIDED BY AUTOMATIC IRRIGATION SYSTEM IN ACCORDANCE WITH CITY OF ALACHUA LDR SECTION 6.2.2(D)(6)(B)(VI). SEE SHEETS L-403 THROUGH L-404 FOR POD C IRRIGATION PLANS. PLANT SCHEDULE

<u>TREES</u> FA	QTY 4	BOTANICAL NAME FRAXINUS AMERICANA	COMMON NAME WHITE ASH	<u>SIZE</u> 8'HEIGHT, MIN.	<u>TYPE</u> CANOPY
FG	4	FRAXINUS PENNSYLVANICA	GREEN ASH	8' HEIGHT, MIN.	CANOPY
LIM	6	LAGERSTROEMIA INDICA 'MUSKOGEE'	MUSKOGEE CRAPE MYRTLE	1 ½" CALIPER MIN.	UNDERSTORY
LT	12	LIRIODENDRON TULIPIFERA	TULIP TREE	8' HEIGHT, MIN.	CANOPY
MGB	5	MAGNOLIA GRANDIFLORA 'BRACKEN'S BROWN BEAUTY'	BRACKEN'S BROWN BEAUTY MAGNOLIA	8' HEIGHT, MIN.	CANOPY
QA	1	QUERCUS AUSTRINA	BLUFF OAK	8' HEIGHT, MIN.	CANOPY
QS	3	QUERCUS SHUMARDII	SHUMARD OAK	8' HEIGHT, MIN.	CANOPY
QVC	13	QUERCUS VIRGINIANA 'CATHEDRAL'	CATHEDRAL LIVE OAK	8' HEIGHT, MIN.	CANOPY
TD	14	TAXODIUM DISTICHUM	BALD CYPRESS	8' HEIGHT, MIN.	CANOPY
UA	6	ULMUS ALATA	WINGED ELM	8' HEIGHT, MIN.	CANOPY
<u>SHRUBS</u> BX	<u>QTY</u> 230	BOTANICAL NAME BUXUS MICROPHYLLA	COMMON NAME BOXWOOD	<u>SIZE</u> 24" HEIGHT, MIN.	
IDB	320	ILEX CORNUTA 'DWARF BURFORDII'	DWARF BURFORD HOLLY	24" HEIGHT, MIN.	
RI	116	RHAPHIOLEPIS INDICA 'ELEANOR TABOR'	ELEANOR TABOR INDIAN HAWTHORN	24" HEIGHT, MIN.	
VO	11	VIBURNUM ODORATISSIMUM	SWEET VIBURNUM	24" HEIGHT, MIN.	
VOS	73	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	MRS. SCHILLER'S DELIGHT VIBURNUM	24" HEIGHT, MIN.	
SOD/SEED SOD		BOTANICAL NAME PASPALUM NOTATUM 'ARGENTINE'	COMMON NAME BAHIA GRASS	<u>SIZE</u> WEED FREE AND SANI	O GROWN SOD

ARTERIAL FRONTAGE BUFFER [Sec. 6.2.3(E)] FULL LENGTH OF SOUTHERN PROPERTY BOUNDARY ALONG U.S. HWY. 441

DESCRIPTION	LANDSCAPE REQUIREMENTS	LANDSCAPE PROVIDED
U.S. HWY. 441 (873 LIN. FT.)	5 CANOPY TREES PER 100 LIN. FT. REQUIRED = 44 CANOPY TREES REQUIRED 3 UNDERSTORY TREES PER 100 LIN. FT. REQUIRED = 26 UNDERSTORY TREES REQUIRED CONTINUOUS HEDGE REQUIRED	44 CANOPY TREES PROVIDED 26 UNDERSTORY TREES PROVIDED CONTINUOUS HEDGE PROVIDED

PARKING AREA LANDSCAPE REQUIREMENTS [Sec. 6.2.2(D)(2)(a) & (b)] EXISTING PARKING IN POD 1, POD 2A, POD 2B, AND PROPOSED POD 2C PARKING AREA

DESCRIPTION	LANDSCAPE REQUIRED	LANDSCAPE PROVIDED
PARKING AREA PERIMETER LANDSCAPE	PARKING PERIMETER = 2,468 L.F. 4 CANOPY TREES PER 100 L.F. 2 UNDERSTORY/ORNAMENTAL PER 100 L.F. CONTINUOUS ROW OF SHRUBS 99 CANOPY TREES REQUIRED 50 UNDERSTORY TREES REQUIRED CONTINUOUS ROW OF SHRUBS	99 CANOPY TREES PROVIDED 50 UNDERSTORY TREES PROVIDED CONTINUOUS ROW OF SHRUBS PROVIDED
INTERIOR PARKING AREA LANDSCAPE	PARKING AREA = 152,020 S.F. 1 CANOPY TREE REQUIRED PER 2,000 S.F. 10 SHRUBS REQUIRED PER CANOPY TREE REQUIRED 76 CANOPY TREES REQUIRED 760 SHRUBS REQUIRED	76 CANOPY TREES PROVIDED 760 SHRUBS PROVIDED

SITE LANDSCAPE CALCULATIONS [Sec. 6.2.2(D)(1)(c)] ENTIRE SITE EXCEPT FOR PRIMARY SIDE CANOPY TREES AND SITE UNDERSTORY TREES FOR THE FRONT, WHICH ARE CALCULATED UTILIZING COMBINED ACREAGE FOR PODS B & C

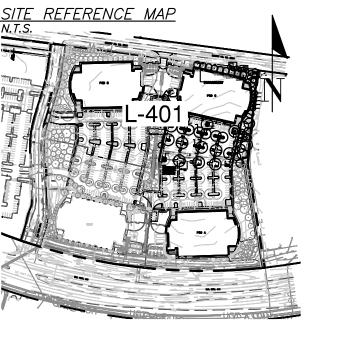
DESCRIPTION	TREE REQUIREMENTS	TREES PROVIDED
PRIMARY SIDE CANOPY TREES (NORTH SIDE)	3 TREES PER ACRE X 6.85 ACRES = 21 CANOPY TREES REQUIRED	21 CANOPY TREES PROVIDED
REAR SIDE CANOPY TREES (SOUTH SIDE)	2 TREES PER ACRE X 14.5 ACRES = 29 TREES REQUIRED	29 CANOPY TREES PROVIDED
EAST SIDE CANOPY TREES	2 TREES PER ACRE X 14.5 ACRES = 29 TREES REQUIRED	29 CANOPY TREES PROVIDED
WEST SIDE CANOPY TREES	2 TREES PER ACRE X 14.5 ACRES = 29 TREES REQUIRED	29 CANOPY TREES PROVIDED
SITE UNDERSTORY TREES	6 UNDERSTORY TREES PER ACRE X 6.85 ACRES (POD B + POD C) X 50% IN FRONT = 21 TREES REQUIRED 6 UNDERSTORY TREES PER ACRE X 14.5 ACRES (ENTIRE SITE) X 25% ON EAST SIDE = 22 TREES REQUIRED 6 UNDERSTORY TREES PER ACRE X 14.5 ACRES (ENTIRE SITE) X 25% ON WEST SIDE = 22 TREES REQUIRED	FRONT SIDE 21 UNDERSTORY TREES PROVIDED EAST SIDE 22 UNDERSTORY TREES PROVIDED WEST SIDE 22 UNDERSTORY TREES PROVIDED
BUILDING FACADE (POD C)	349 LINEAR FEET 4 CANOPY TREES PER 100 LIN. FT. REQUIRED = 14 CANOPY TREES REQUIRED + ROW OF SHRUBS	14 CANOPY TREES PROVIDED ROW OF SHRUBS PROVIDED

30% LANDSCAPED AREA REQUIREMENT Per City of Alachua Comprehensive Plan Future Land Use Element, Objective 2.4, Policy 2.4.a ENTIRE SITE

TOTAL SITE AREA.. 633,271 S.F. TOTAL PROPOSED LANDSCAPED AREA... 403,424 S.F. LANDSCAPED AREA % OF TOTAL SITE AREA..... (MIN. 30%)



KNOW WHAT'S **BELOW ALWAYS CALL 811** BEFORE YOU DIG It's fast, It's free, it's the law. Call 811 two business days before digging



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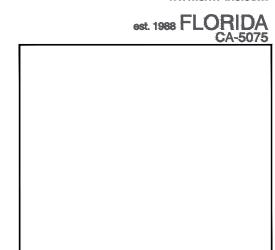




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SCAI	LE:	N/A
DRA	WN BY:	СМТ
REVI	EWED BY:	CEM

CHW PROJECT NUMBER

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LANDSCAPE NOTES, DETAILS, & CALCULATIONS -POD C

SHEET NUMBER

L-400

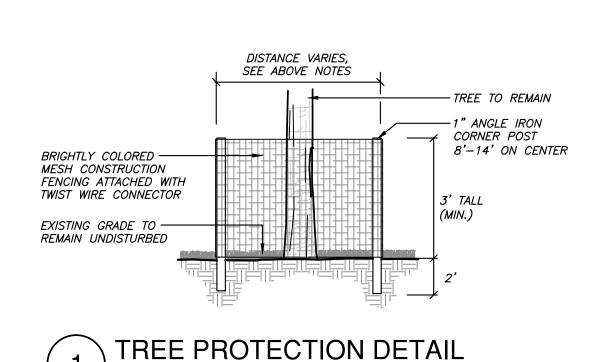
CITY

SUBMITTAL

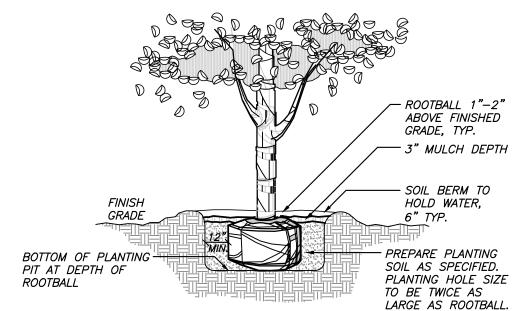
NOTE: CALCULATIONS ON THIS SHEET INCLUDE EXISTING PHASE 1 PLANTINGS, POD A PLANTINGS, POD B PLANTINGS, AND PROPOSED POD C PLÁNTINGS. THE ENTIRE SITE AREA IS 14.50 ACRES AND INCLUDES PHASE 1, POD A, POD B, AND POD C. POD CALCULATIONS BUILD ON EACH OTHER AS PODS ARE CONSTRUCTED. SEE SHEET L-200 FOR POD A CALCULATIONS AND SEE SHEET L-300 FOR POD B CALCULATIONS.

PERIMETER BUFFER LANDSCAPE REQUIREMENTS [Section 6.2.2(D)(3)] FULL LENGTH OF SITE, FROM U.S. HWY. 441 TO C.R. 2054

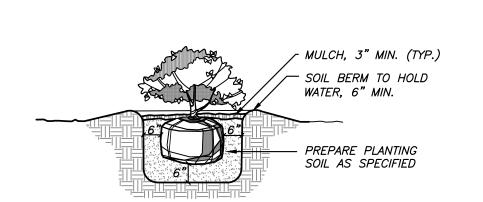
LOCATION	BUFFER LENGTH & TYPE	LANDSCAPE REQUIRED	LANDSCAPE PROVIDED
EASTERN PERIMETER	769 L.F. BUFFER TYPE 'C'	<u>OPTION 1</u> 1 CANOPY TREE / 30 LIN. FT. + EVERGREEN HEDGE	26 PROPOSED CANOPY TREES CONTINUOUS EVERGREEN HEDGE
WESTERN PERIMETER	793 L.F. BUFFER TYPE 'C'	<u>OPTION 1</u> 1 CANOPY TREE / 30 LIN. FT. + EVERGREEN HEDGE	27 PROPOSED CANOPY TREES CONTINUOUS EVERGREEN HEDGE

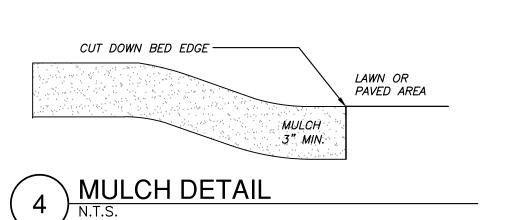


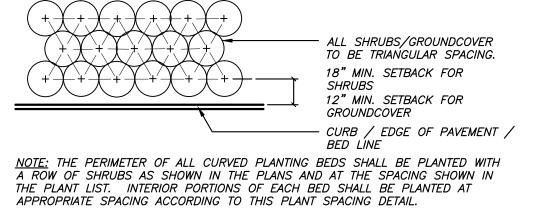
SCALE: N.T.S.



TREE PLANTING DETAIL





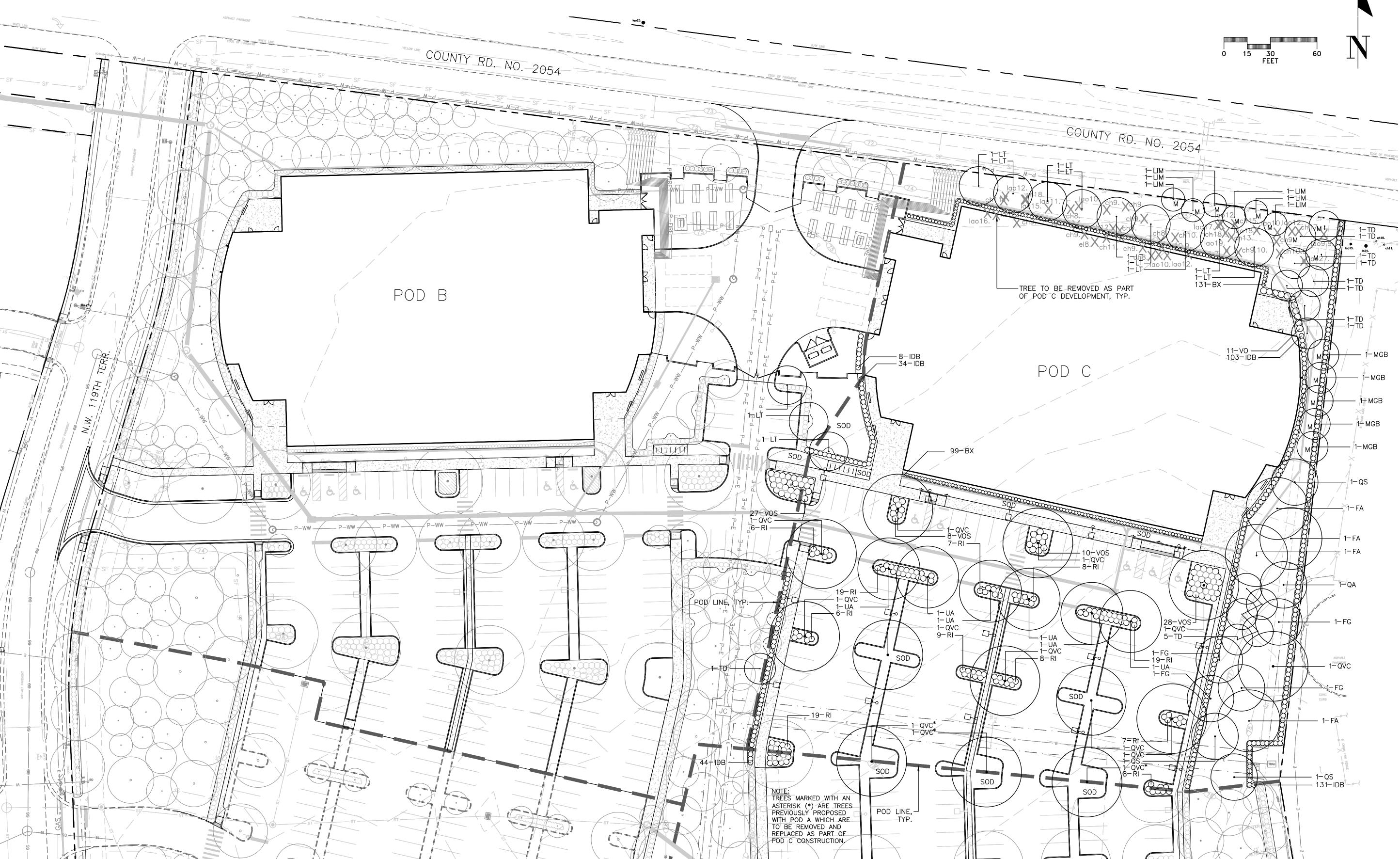


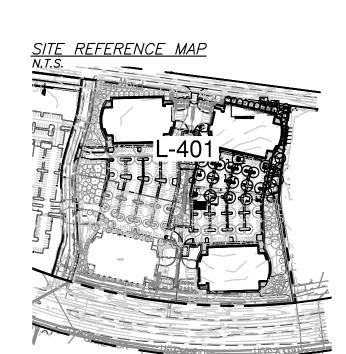
PLANT SPACING DETAIL

SHRUB PLANTING DETAIL

SCALE: N.T.S.









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SCALE:		1" = 30'-0		
DRAWN BY:		CM		

CHW PROJECT NUMBER

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LANDSCAPE PLAN

- POD C

SHEET NUMBER

L-401

Irrigation Mainline: PVC 1-1/2" Class 200 SDR 21

Extend sleeves 18 inches beyond edges of paving or construction.

Pipe Sleeve: PVC Schedule 40

1.0 GENERAL 1.1 SUMMARY: Includes but not limited to: A. Furnishing and installing sprinkler system as described in Contract Documents complete with accessories necessary for proper functioning. 1.2 SYSTEM DESCRIPTION: A. Design Requirements: 1. Layout of Irrigation Heads: a. Location of heads shown on Drawings is approximate. Actual placement may vary slightly as is required to achieve full, even coverage without spraying onto buildings, sidewalks, b. During layout, consult with Landscape Architect to verify proper placement and make recommendations, where revisions are advisable. 1.3 QUALITY ASSURANCE: A. Regulatory Requirements: 1. Work and materials shall be in accordance with latest rules and regulations, and other applicable state or local laws. Nothing in Contract Documents is to be construed to permit work not conforming to these codes. B. Pre-Installation Conference: 1. Meet with Owner and Landscape Architect to discuss and clarify all aspects of job requirements prior to commencing work of this Section. C. System Adjustments: 1. Minor adjustments in system will be permitted to avoid existing fixed obstructions. 2. Mainline, laterals, and valves are shown for clarity purposes only. All irrigation equipment to be with landscape area. Mainline, laterals and valves to be installed as far away from existing and new specimen trees as possible. D. 1. Documentation and submittal of actual water supply performance prior to commencing installation. 1.4 SUBMITTALS: A. Record Drawings: 1. Prepare an accurate as-built drawing as installation proceeds to be submitted prior to final inspection. Drawing shall include: a. Detail and dimension changes made during construction. b. Significant details and dimensions not shown in original Bidding Documents. 2. Maintain, at job site, one copy of Contract Documents (as defined in General Conditions) and relevant shop drawings. 3. Clearly mark each document "PROJECT RECORD COPY" and maintain in good condition for use of the Landscape Architect and Owner. 4. As-built drawing shall be provided in PDF format. 5. Submit product literature for all sprinklers, valves, pipe, wire, wire connectors and controller. 6. Final payment for system will not be authorized until accurate and complete submittals are delivered to the Landscape Architect. B. Instruction Manual: 1. Provide instruction manual which lists complete instructions for system operation and maintenance. 1.5 PRODUCT STORAGE: A. During construction and storage, protect materials from damage and prolonged exposure to sunlight. 1.6 WARRANTY: A. Standard one (1) year warranty stipulated in General Conditions shall include: Completed system including parts and labor. 2. Filling and repairing depressions and replacing plantings due to settlement of irrigation trenches for one (1) year following final acceptance. 3. System adjustment to supply proper coverage to areas to receive water. 1.7 MAINTENANCE: A. Extra Materials: 1. In addition to installed system, furnish Owner with the following items at close-out: a. Two sprinkler head bodies of each size and type. b. Two nozzles for each size and type. c. Two adjusting keys for each sprinkler head cover type. 2.0 PRODUCTS: 2.1 PIPE, PIPE FITTINGS, AND CONNECTIONS: A. Pipe shall be continuously and permanently marked with Manufacturer's name, size, schedule, type, and working pressure. B. Pipe: 1. Pressure Lines: as indicated on plans. Lateral Lines: as indicated on plans. 3. Risers: sch. 80 PVC, gray C. Fittings: 1. Schedule 40 PVC. D. Sleeving:

A. Conform to requirements shown on Drawings as to type, radius of throw, pressure, and discharge.

boxes. Use white or gray color for common wire and other colors for all other wire. Each common

1. Bronze construction, angle type, 150 pound class, threaded connections, with cross-type

C. Add two extra control wires from panel to valves for use if a wire fails and mark them in the control box as

B. Control wire shall be UL listed, color coded copper conductor direct burial size 14. Use 3M-DBY waterproof wire connectors at splices and locate all splices within valve

an extra wires. These wires shall be of a different color than the others.

A. Control valves shall be of size and type indicated on Drawings.

operating handle designed to receive operating key.

1. Schedule 40 PVC.

2.3 AUTOMATIC SPRINKLER SYSTEM:

wire may serve only one controller.

1. Make and model shown on Drawings.

1. Make and model shown on Drawings.

1. Make and model shown on Drawings.

2.2 SPRINKLER HEADS:

2.4 VALVES:

A. Electric Valves:

C. Automatic Controller:

D. Backflow Preventor:

B. Gate valves:

2.5 VALVE ACCESSORIES: A. Valve Boxes 1. Ametek or Brooks rectangular heavy duty valve box with locking lid or Landscape Architect approved equal. 2. Do not install more than one (1) valve in a single box. 3. Valve boxes shall be large enough for easy removal or maintenance of valves. 3.0 EXECUTION: 3.1 PREPARATION: A. Protection: 1. Work of others damaged by this Section during course of its work shall be replaced or repaired by original installer at this Section's expense. 3.2 INSTALLATION: A. Trenching and Backfilling: 1. Over-excavate trenches by two (2") inches and bring back to indicated depth by filling with fine, 2. Cover pipe both top and sides with two (2") inches of material specified in paragraph above. In no case shall there be less than two (2") inches of rock-free soil or sand surrounding pipe. B. Installation of Plastic Pipe: 1. Install plastic pipe in a manner to provide for expansion and contraction as recommended by 2. Unless otherwise indicated on Drawings, install main lines with a minimum cover of eighteen (18") inches based on finish grade. Install lateral lines with a minimum cover of twelve (12") inches based on finish grade. 3. Install pipe and wires under driveways or parking areas in specified sleeves a minimum of twenty-four (24") inches below finish grade or as shown on Drawings. 4. Locate no sprinkler head closer than twelve (12") inches from building foundation. Heads immediately adjacent to mowing strips, walks or curbs shall be one (1") inch below top of mowing strip, walk or curb and have a minimum of one (12") inch clearance between head and walk or curb. 5. Drawings show arrangement of piping. Should local conditions necessitate rearrangement, obtain approval of Landscape Architect prior to proceeding with work. 6. Cut plastic pipe square. Remove burrs at cut ends prior to installation so unobstructed flow will 7. Make solvent weld joints in the following manner: a. Clean mating pipe and fitting with clean, dry cloth and apply one (1) coat of P-70 primer to b. Apply uniform coat of 711 solvent to outside of pipe. c. Apply solvent to fitting in similar manner. d. Reapply a light coat of solvent to pipe and quickly insert into fitting. e. Give pipe or fitting a quarter turn to insure even distribution of solvent and make sure pipe is inserted to full depth of fitting socket. f. Hold in position for fifteen (15) seconds minimum or long enough to secure joint. g. Wipe off solvent appearing on outer shoulder of fitting. h. Do not use an excessive amount of solvent thereby causing an obstruction to form on the inside of pipe. i. Allow joints to set at least 24 hours before applying pressure to PVC pipe. 8. Tape threaded connection with teflon tape. 9. Install concrete thrust blocks wherever change of direction occurs a PVC main pressure lines unless otherwise detailed on Drawings. C. Control Valves and Controller: 1. Install controller, control wires, and valves in accordance with Manufacturer's recommendations and according to applicable electrical code. 2. Install valves in plastic boxes with reinforced heavy duty plastic covers. Locate valve box tops at 3. Install remote control valves in valve boxes positioned over valve so all parts of valve can be reached for service. Set cover of valve box even with finish grade. 4. Install all valve boxes over nine (9") inches of gravel for drainage. D. Sprinkler Heads: 1. Prior to the installation of sprinkler heads, open control valves and use full head of water to flush 2. Set sprinkler heads perpendicular to finish grade. 3. Set lawn sprinkler heads adjacent to existing walks, curbs, and other paved areas to grade. E. Dripline: 1. Install 6" pop up spray and closed nozzle by drip zone control valves to be used as zone operation

END OF SECTION

A. Adjust heads to proper grade when turf is sufficiently established to allow walking on it without

B. Adjust sprinkler heads for proper distribution and trim to ensure spray does not fall on building.

A. After system is installed and approved, instruct Owners Representative in complete operation and

C. Adjust watering time of valves to provide proper amounts of water to all plants.

appreciable harm. Such lowering or raising of of heads shall be part of the original contract with no

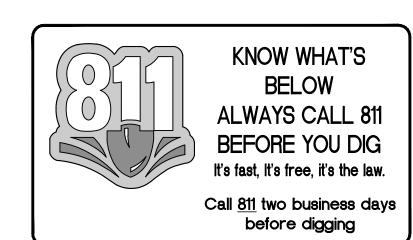
2. Stake dripline every eight feet with 6" sod staple.

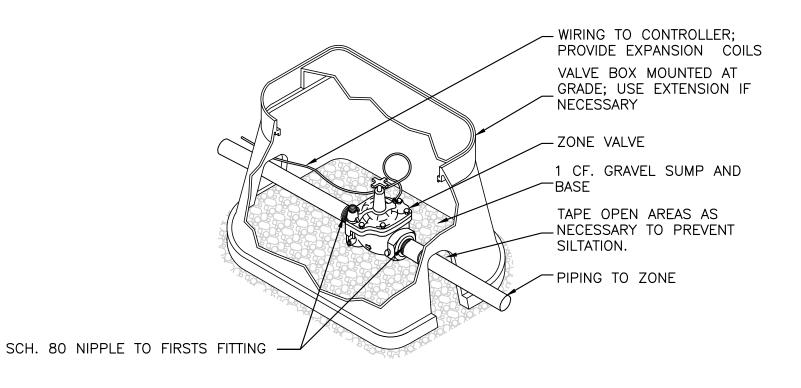
3.3 ADJUSTMENT AND CLEANING:

3.4 DEMONSTRATION:

maintenance.

additional charge to the Owner.

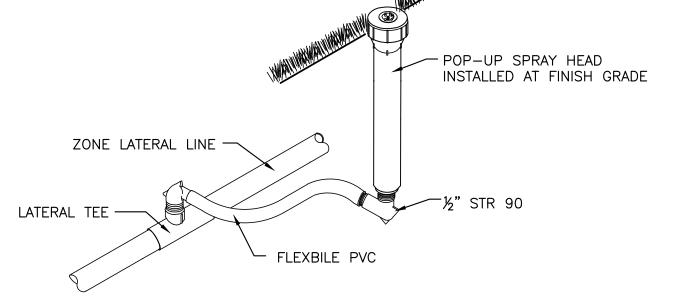


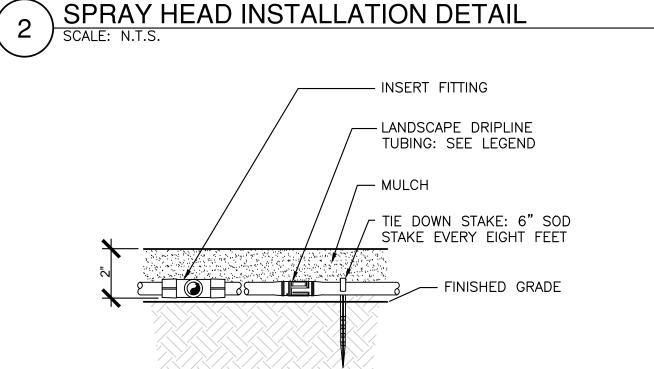


INSTALL TOP OF VALVE A MAXIMUM OF 15" FROM FINISHED GRADE.

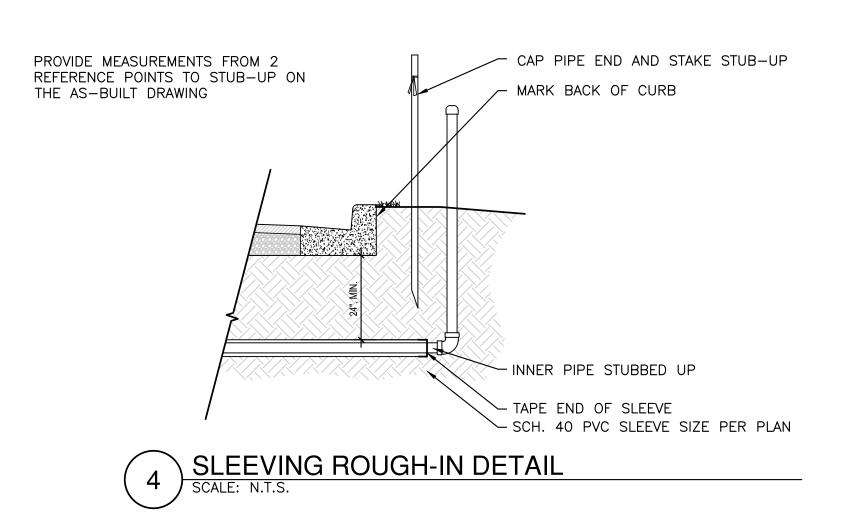


ZONE VALVE INSTALLATION DETAIL





DRIPLINE INSTALLATION DETAIL





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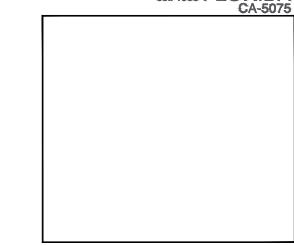


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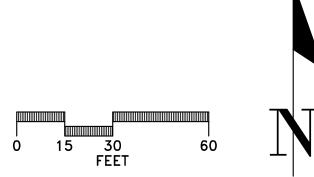
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SCALE:		N/A
DRAWN BY:		CM
REVIEWED BY:		CEN

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SHEET NUMBER





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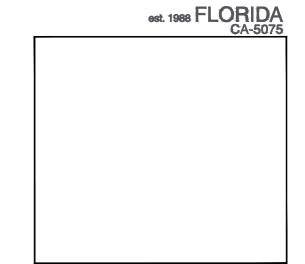


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CONSULTANTS



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REVISIONS

	1	1		
NO.	DESCRIPTION	DATE		
	CITY OF ALACHUA REVIEW	09/27/16		
	CITY OF ALACHUA REVIEW	10/10/16		
	CITY OF ALACHUA REVIEW	10/17/16		
DATE ISSUED:		06/30/1		

SCALE: 1" = 30'-0" **DRAWN BY: REVIEWED BY:**

CHW PROJECT NUMBER

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IRRIGATION PLAN - POD C

SHEET NUMBER

L-403

