CITY OF WILDWOOD
GATEWAY MONUMENT SIGN

ISSUED FOR CONSTRUCTION
FOR
CITY OF WILDWOOD

WILDWOOD
FLORIDA

CITY OF WILDWOOD, FLORIDA

TRAILWINDS DEVELOPMENT

MAY, 2021

GENERAL NOTES

PRESENT ZONING: CMU

TOTAL PROPERTY BOUNDARY: 2.60 ACRES

TOTAL LIMITS OF WORK: 0.21 ACRES

LAND USE: CMU

WATER:
POTABLE WATER WILL BE PROVIDED BY CITY OF WILDWOOD UTILITIES DEPARTMENT.

FEMA DESIGNATION:
THIS PROJECT DOES NOT LIE WITHIN A FEMA FLOOD ZONE.

IRRIGATION:
IRRIGATION WILL BE VIA THE POTABLE WATER SYSTEM. SEE IRRIGATION PLANS FOR POINT OF CONNECTION.

LOCAL BENCHMARK:
BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83), WITH 2011 ADJUSTMENT AS DERIVED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION VIRTUAL REFERENCE STATION NETWORK.

PROJECT CONSULTANTS

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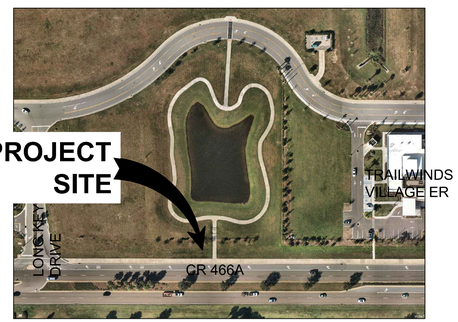
1058 PALM COVE DR.
ORLANDO, FL 32835
(321) 246-4041

NORTH

SCALE:
NTS

LOCATION MAP



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L1.00 - LANDSCAPE PLAN
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No.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL

DATE: 03/30/2021

KHA PROJECT 142173000

DATE 04/23/2021

SCALE AS SHOWN

DESIGNED BY JJZ

DRAWN BY JJZ

CHECKED BY KHA

COVER SHEET

CITY OF WILDWOOD
GATEWAY
MONUMENT SIGN

CITY OF WILDWOOD FLORIDA

SHEET NUMBER
L0.10

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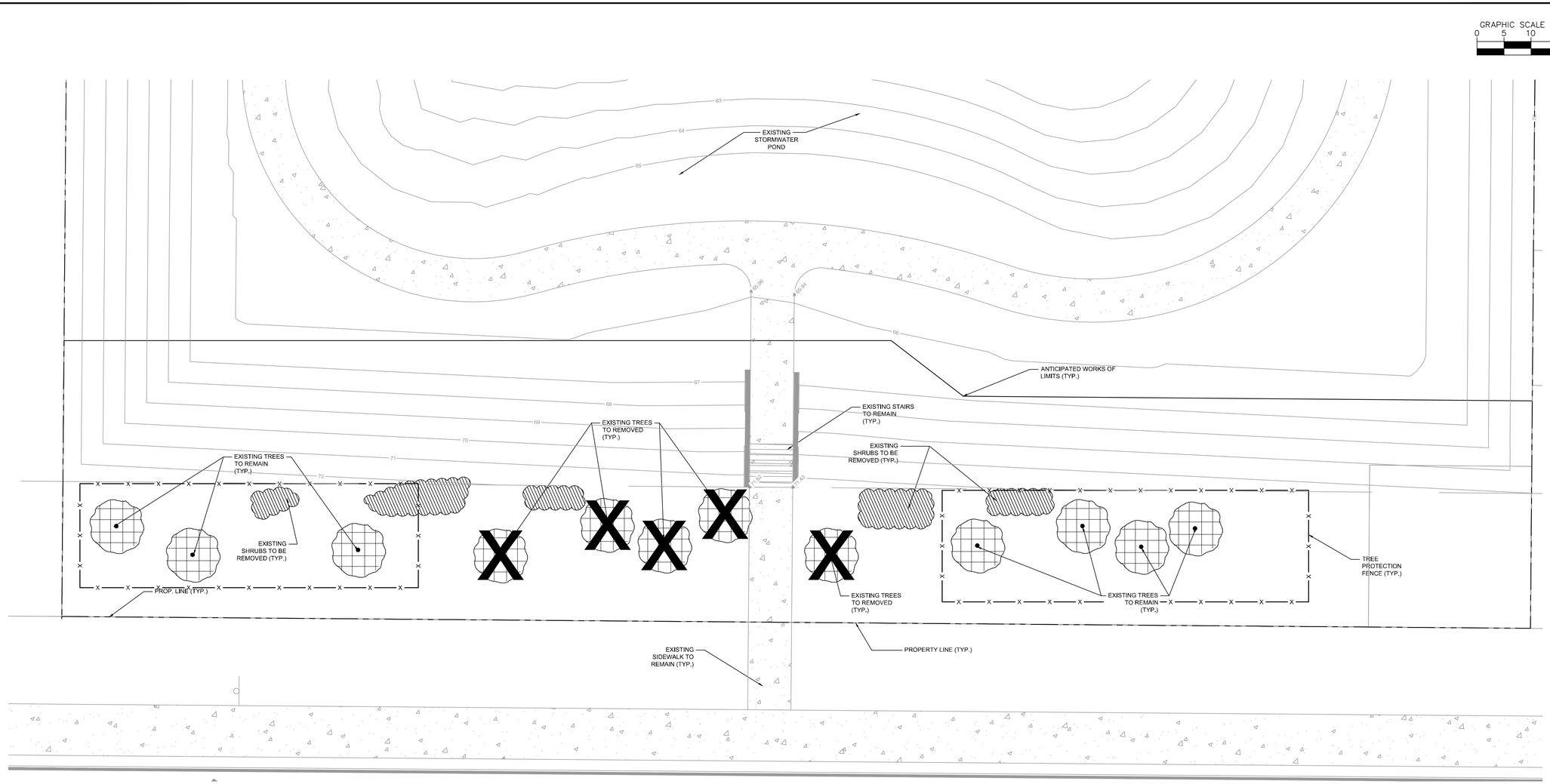
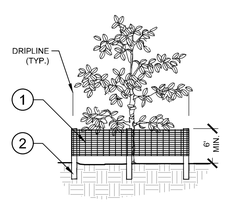


LEGEND

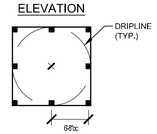
(5) EXISTING TREES TO BE REMOVED

(7) EXISTING TREES TO REMAIN

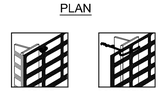
TREE PROTECTION FENCE + DETAIL



ELEVATION



PLAN



1. 6'H "PERIMETER PLUS" CONSTRUCTION FENCE BY CONWED PLASTICS OR OWNER'S REPRESENTATIVE APPROVED EQUAL. SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO INSTALLATION.
2. 8' TALL METAL "T" POSTS OR 2" x 2" X 8' PRESSURE TREATED WOOD POSTS WITH 24" BURIAL BELOW GRADE.

INSTALLATION NOTES:

A. POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL BE IN PLACE. FLEXIBLE FIBERGLASS ROD POSTS ARE RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND CROWD CONTROL INSTALLATIONS. METAL "T" POSTS OR TREATED WOOD POSTS ARE TYPICALLY USED FOR CONSTRUCTION AND OTHER APPLICATIONS.

B. POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/3 OF THE HEIGHT OF THE POST. FOR EXAMPLE, A 6' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.

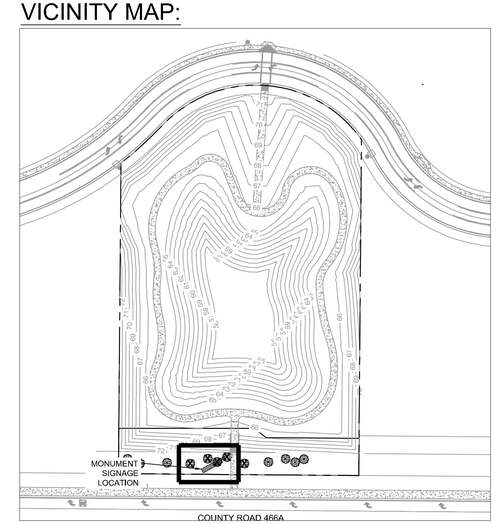
C. SPACE POSTS EVERY 6' (MIN.) TO 8' (MAX.).

D. SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONWED PLASTICS). WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS.

NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE. WIRE MAY DAMAGE FENCE OVER TIME.

10 / L1.50 TREE PROTECTION FENCING
ELEVATION / PLAN
NTS

VICINITY MAP:



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LICENSED PROFESSIONAL
DATE: 03/30/2021

KHA PROJECT 142173000
DATE 11/2/2020
SCALE AS SHOWN
DESIGNED BY JJZ
DRAWN BY JJZ
CHECKED BY KHA

LANDSCAPE DEMOLITION PLAN

CITY OF WILDWOOD GATEWAY MONUMENT SIGN
CITY OF WILDWOOD FLORIDA

SHEET NUMBER
L0.50

Plotted By:Zheng, Jim Sheet Set:Trailwinds Village Monument Signage Layout:L0.50 June 22, 2021 03:35:44pm K:\ORL_LA\ORALA\142173000 Trailwinds Village Monument Sign\CAD\CONST\PlanSheets\L0.50 - Demo Plan.dwg
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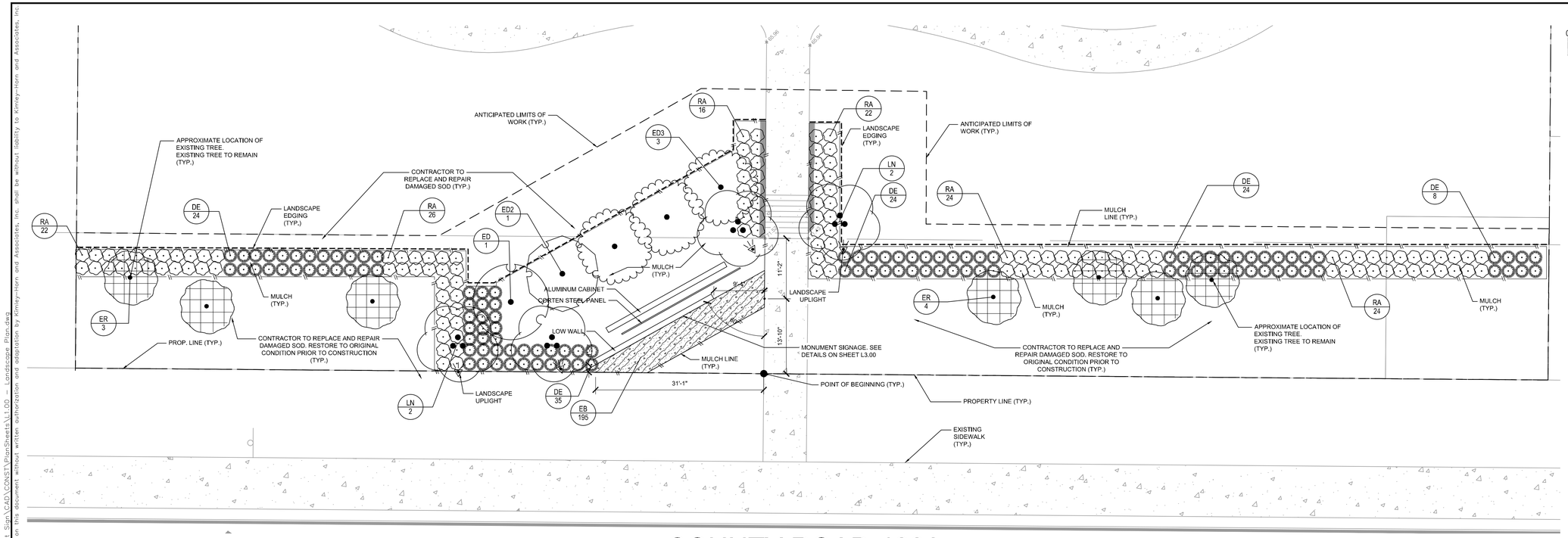


COUNTY ROAD 466A

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
	ED	1	ELAEOCARPUS DECIPIENS TM STRAIGHT, STANDARD, FULL TO BASE, FL #1, ROOTBALL MIN. 44" DIAM.	JAPANESE BLUEBERRY TREE	FG	3.5" CAL MIN	10' HT., 4' SPR.
	ED2	1	ELAEOCARPUS DECIPIENS TM STRAIGHT, STANDARD, FULL TO BASE, FL #1, ROOTBALL MIN. 44" DIAM.	JAPANESE BLUEBERRY TREE	FG	3.5" CAL MIN	12' HT., 4' SPR.
	ED3	3	ELAEOCARPUS DECIPIENS TM STRAIGHT, STANDARD, FULL TO BASE, FL #1, ROOTBALL MIN. 44" DIAM.	JAPANESE BLUEBERRY TREE	FG	3.5" CAL MIN	14' HT MIN, 6' SPR
	ER	7	EXISTING TREES TO REMAIN PROTECT IN PLACE. CONTRACTOR LIABLE FOR DAMAGE	EXISTING TREES TO REMAIN	FG	-	-
	LN	4	LAGERSTROEMIA X 'TUSKEGEE' MULTI-TRUNK, 5-TRUNK MIN, FULL, FL #1	RED CRAPE MYRTLE	FG	5" CAL. TOT.	14' HT., 6' SPR.
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE
	DE	115	DURANTA ERECTA 'GOLD MOUND' FULL	GOLD MOUND DEWDROPS	3 GAL	30" OC	18" FULL
	RA	134	RHAPHIOLEPIS INDICA 'ALBA' FULL	WHITE INDIAN HAWTHORN	3 GAL	30" OC	18" FULL
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING
	EB	195	EVOLVULUS NUTTALLIANUS 'BLUE DAZE' FULL	SHAGGY DWARF MORNING GLORY	1 GAL	12" FULL	12" OC

MISC.	QTY	BOTANICAL/COMMON NAME	SPECIFICATIONS
MULCH	TBD	CYPRESS MULCH 'DESIGNER BROWN'	3" DEPTH MINIMUM, LAID TIGHT, SHREDDED, FREE OF WEEDS/INVASIVE PLANT MATERIAL
SOD	TBD	MATCH EXISTING	
LANDSCAPE EDGING	304'	STEEL EDGING	SURE-LOC STEEL EDGING. COLOR TO BE BLACK. $\frac{3}{16}$" X 4" X 16"

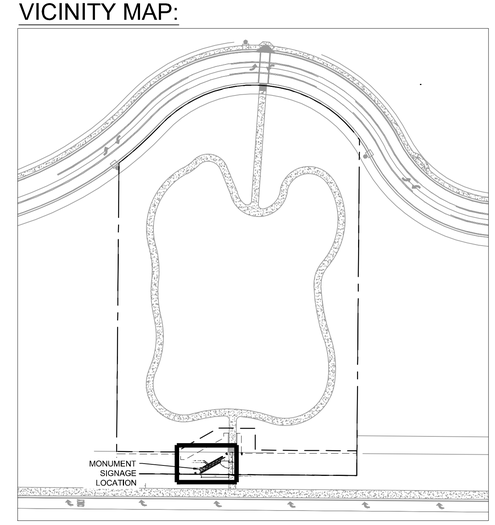
LANDSCAPE NOTES:

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

LIGHTING SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	LANDSCAPE UPLIGHT MODEL #ASPEN A P1 80CRI 40K 120 35DEG FLC KM PM60A C1 BL	4	SEE ELECTRICAL PLANS

VICINITY MAP:



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LICENSED PROFESSIONAL

FLORIDA LICENSE NUMBER

DATE: 03/30/2021

KHA PROJECT 142173000

DATE 11/2/2020

SCALE AS SHOWN

DESIGNED BY JJZ

DRAWN BY JJZ

CHECKED BY KHA

LANDSCAPE PLAN

CITY OF WILDWOOD GATEWAY MONUMENT SIGN

CITY OF WILDWOOD FLORIDA

SHEET NUMBER

L1.00

Plotted By:Zheng, Jim, Sheet Set:Trailwinds Village Monument Signage, Layout:LANDSCAPE PLAN June 22, 2021 03:35:57pm K:\ORL_LA\OCALA\142173000 Trailwinds Village Monument Sign\CAD\CONST\PlanSheets\L1.00 - Landscape Plan.dwg
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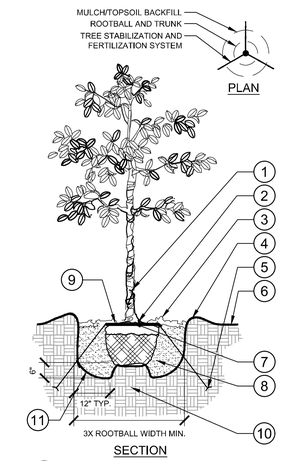


1. TRUNK/ROOT BALL TO BE CENTERED AND PLUMB/LEVEL IN PLANTING PIT.
2. 6" DIA. CLEAR OF MULCH AT TRUNK FLARE.
3. 3" MINIMUM MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES SHALL BE 6' DIAMETER (MIN.) OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
4. 4" HIGH BERM, FIRMLY COMPACTED.
5. TREE FROG ANCHOR SYSTEM INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. FINISHED GRADE. (SEE GRADING PLAN)
7. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE.
8. PREPARED PLANTING SOIL AS SPECIFIED.
9. TOP OF ROOTBALL SHALL BE 1" ABOVE FINISHED GRADE. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING. ROOTBALLS SMALLER THAN 24" IN DIAMETER MAY SIT ON COMPACTED EARTH.
10. UNDISTURBED NATIVE SOIL.
11. SCARIFY BOTTOM AND SIDES OF PLANTING PIT.

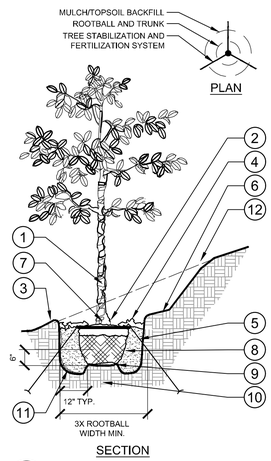
NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.

C. PRUNE ALL TREES IN ACCORDANCE WITH ANSI A-300.

1 TREE PLANTING
L1.50 SECTION / PLAN — NTS



1. TRUNK/ROOT BALL TO BE CENTERED AND PLUMB/LEVEL IN PLANTING PIT.
2. 6" DIA. CLEAR OF MULCH AT TRUNK FLARE.
3. 3. 4" HIGH BERM, FIRMLY COMPACTED.
4. 3" MINIMUM OF HARDWOOD BARK MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES SHALL BE 6' DIAMETER (MIN.) OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
5. TREE FROG ANCHOR SYSTEM INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. 4" MIN. OF TOPSOIL TO BRING TO FINISHED GRADE. (SEE GRADING PLAN)
7. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE.
8. PREPARED PLANTING SOIL AS SPECIFIED.
9. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING. ROOTBALLS SMALLER THAN 24" IN DIAMETER MAY SIT ON COMPACTED EARTH.
10. UNDISTURBED NATIVE SOIL.
11. SCARIFY BOTTOM AND SIDES OF PLANTING PIT.
12. CUT BACK SLOPE TO PROVIDE A FLAT SURFACE FOR PLANTING.

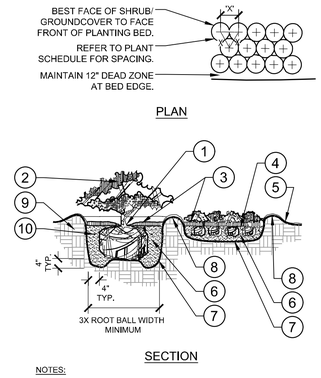
NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.

C. PRUNE ALL TREES IN ACCORDANCE WITH ANSI A-300.

2 TREE PLANTING ON A SLOPE
L1.50 SECTION / PLAN — NTS



1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" - 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASS/HEIGHT.
3. 3" MULCH LAYER AS SPECIFIED.
4. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
5. FINISHED GRADE (SEE GRADING PLAN).
6. PREPARED PLANTING SOIL AS SPECIFIED. (SEE LANDSCAPE NOTES). NOTE: WHEN GROUND-COVERS AND SHRUBS USED IN MASSES, ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
7. SCARIFY OF PLANTING PIT SIDES AND BOTTOM.
8. 4" HIGH BERM FIRMLY COMPACTED.
9. UNDISTURBED NATIVE SOIL.
10. FERTILIZER TABLETS (MAX 3" DEEP)

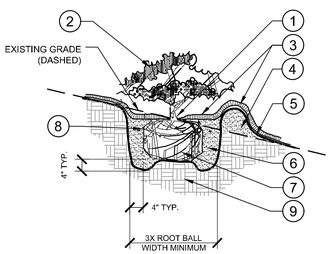
NOTES:

A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

B. WHEN SHRUBS ARE PRUNED IN MASSES, PRUNE ALL SHRUBS TO ACHIEVE UNIFORM MASS / HEIGHT.

C. ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNERS REPRESENTATIVE.

3 SHRUB/GROUNDCOVER PLANTING
L1.50 SECTION / PLAN — NTS



1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" - 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. PRUNE SHRUBS AS DIRECTED BY OWNER'S REPRESENTATIVE.
3. 3" MINIMUM OF MULCH AS SPECIFIED. WHERE SHRUBS ARE PLACED IN MASSES, MULCH SHALL BE SPREAD IN A CONTINUOUS BED.
4. SOIL BERM TO HOLD WATER. TOP OF PLANTING PIT 'BERM' TO BE LEVEL ACROSS PIT. SLOPE DOWNHILL PORTION OF BERM AS REQUIRED TO MEET EXISTING GRADE. MULCH OVER EXPOSED TOPSOIL.
5. FINISHED GRADE (SEE GRADING PLAN)
6. PREPARED PLANTING SOIL AS SPECIFIED. (SEE LANDSCAPE NOTES).
7. SCARIFY SIDES AND BOTTOM OF PLANTING PIT.
8. FERTILIZER TABLETS (MAX 3" DEEP).
9. UNDISTURBED NATIVE SOIL

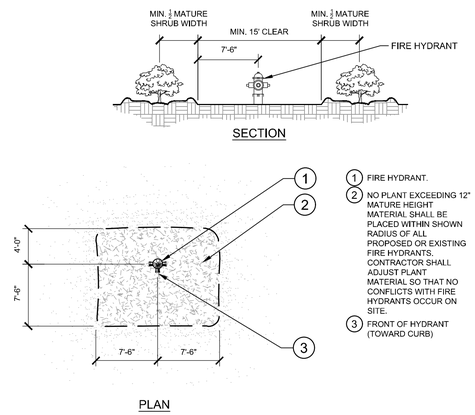
NOTES:

A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

B. WHEN SHRUBS ARE PRUNED IN MASSES, PRUNE ALL SHRUBS TO ACHIEVE UNIFORM MASS / HEIGHT.

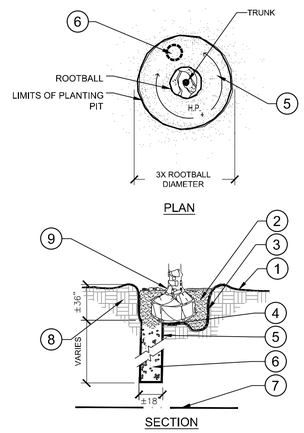
C. ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNERS REPRESENTATIVE.

4 SHRUB/GROUNDCOVER PLANTING ON A SLOPE
L1.50 SECTION — NTS



1. FIRE HYDRANT.
2. NO PLANT EXCEEDING 12" MATURE HEIGHT MATERIAL SHALL BE PLACED WITHIN SHOWN RADIUS OF ALL PROPOSED OR EXISTING FIRE HYDRANTS. CONTRACTOR SHALL ADJUST PLANT MATERIAL SO THAT NO CONFLICTS WITH FIRE HYDRANTS OCCUR ON SITE.
3. FRONT OF HYDRANT (TOWARD CURB)

5 SHRUB PLANTING AT FIRE HYDRANT
L1.50 SECTION / PLAN — NTS



1. FINISH GRADE (SEE GRADING PLANS).
2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
3. FILTER CLOTH, MIRAFI 500X OR BETTER.
4. SLOPE BOTTOM TO DRAIN.
5. AUGURED HOLE Ø ±18" PENETRATE THROUGH OCCLUDING LAYER TO WATER TABLE OR TO A DEPTH OF 7' TO ASSURE PROPER PERCOLATION.
6. BACKFILL WITH 1/2" - 3/4" GRAVEL TO REQUIRED DEPTH THROUGH OCCLUDING LAYER TO ASSURE PROPER PERCOLATION.
7. WATER TABLE. (DEPTH VARIES)
8. UNDISTURBED NATIVE SOIL.
9. SET ROOTBALL ON UNDISTURBED STABLE SUBSOIL SO THAT TOP OF ROOT BALL IS 1" ABOVE FINISHED GRADE.

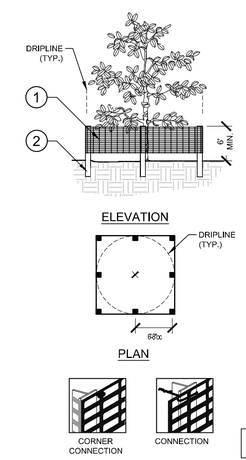
NOTES:

A. THIS DETAIL SHALL BE IMPLEMENTED WHERE PERCOLATION RATES ARE 2" PER HOUR OR LESS.

B. CONTRACTOR TO PERFORM PERCOLATION TEST AS REQUIRED. AND NOTIFY OWNER/LANDSCAPE ARCHITECT.

C. SEE TYPICAL TREE PLANTING DETAIL THIS SHEET FOR PLANT STAKING.

6 POOR DRAINAGE CONDITION
L1.50 SECTION / PLAN — NTS



1. 6'H "PERIMETER PLUS" CONSTRUCTION FENCE BY CONWED PLASTICS OR OWNER'S REPRESENTATIVE APPROVED EQUAL. SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO INSTALLATION.
2. 8' TALL METAL "T" POSTS OR 2" x 2" X 8' PRESSURE TREATED WOOD POSTS WITH 24" BURIAL BELOW GRADE.

INSTALLATION NOTES:

A. POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL BE IN PLACE. FLEXIBLE FIBERGLASS ROD POSTS ARE RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND CROWD CONTROL INSTALLATIONS. METAL "T" POSTS OR TREATED WOOD POSTS ARE TYPICALLY USED FOR CONSTRUCTION AND OTHER APPLICATIONS.

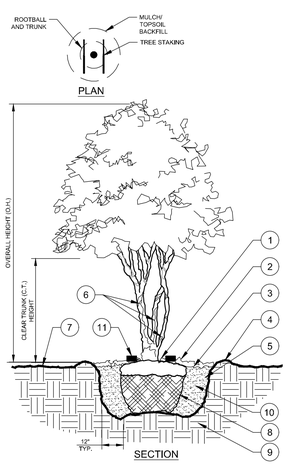
B. POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/3 OF THE HEIGHT OF THE POST. FOR EXAMPLE, A 6' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.

C. SPACE POSTS EVERY 6' (MIN.) TO 8' (MAX.).

D. SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONWED PLASTICS). WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS.

NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE. WIRE MAY DAMAGE FENCE OVER TIME.

7 TREE PROTECTION FENCING
L1.50 ELEVATION / PLAN — NTS



1. BASE OF TREE SHALL BE PLANTED SLIGHTLY ABOVE (1" MIN.) ADJACENT FINISH GRADE. REMOVE ALL TWINE & STRAPS & CUT BURLAP FROM TOP 1/3 OF ROOT BALL. NO SYNTHETIC BURLAP WILL BE ACCEPTED.
2. 4" SHREDDED HARDWOOD MULCH OR APPROVED EQUAL.
3. DIAMETER OF TREE PIT TO BE TWICE THE DIAMETER OF ROOT BALL-ROUGHEN SIDES OF TREE PIT.
4. 3" HIGH SOIL BERM TO HOLD WATER.
5. TOPSOIL MIX BACKFILL.
6. TREE WRAP.
7. 4" MIN. OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
8. ROOT BALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING ROOT BALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.
9. UNDISTURBED SUBSOIL.
10. PREPARE PLANTING SOIL AS SPECIFIED.
11. **Tree Frog® RBK40pt** FOR UP TO 4" TREE CALIPER OR **Tree Frog® RBK60pt** FOR GREATER THAN 4" AND UP TO 6" TREE CALIPER. REFER TO SITEWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS.

NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

B. SET TREE AT ORIGINAL DEPTH. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.

C. SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.

D. PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT

E. ASSURE PERCOLATION OF ALL PLANTING PITS

8 MULTI-TRUNK TREE PLANTING
L1.50 SECTION/PLAN — NTS

No.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL
DATE: 6/22/2021

KHA PROJECT 142173000	
DATE	11/2/2020
SCALE	AS SHOWN
DESIGNED BY	JJZ
DRAWN BY	JJZ
CHECKED BY	KHA

LANDSCAPE DETAILS

CITY OF WILDWOOD GATEWAY MONUMENT SIGN

CITY OF WILDWOOD FLORIDA

SHEET NUMBER
L1.50

Plotted By:Zheng, Jim Sheet Set:Trailwinds Village Monument Signage Layout:L1.50 June 22, 2021 03:36:04pm K:\ORL_LA\OCALA\142173000 Trailwinds Village Monument Sign\CAD\CONST\PlanSheets\L1.50 - Landscape Details.dwg
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GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS SPECIFIED HEREIN.

2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

1. ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED AND DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY BMP DEVICES ACCORDING TO ALL REGULATORY AGENCY'S STANDARDS THROUGH THE DURATION OF ALL CONSTRUCTION ACTIVITIES.

3. THE CONTRACTOR SHALL SUBMIT A DETAILED PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN UNLESS THE WORK REQUIRES NOTHING MORE THAN A DIRECT APPLICATION OF FDOT DESIGN STANDARDS, INDEX 600. IF A DIRECT APPLICATION OF INDEX 600 IS PROPOSED, THE CONTRACTOR SHALL SUBMIT IN WRITING A STATEMENT INDICATING THE STANDARD INDEX AND PAGE NUMBER NO LESS THAN 10 BUSINESS DAYS PRIOR TO START OF CONSTRUCTION. WHEN A DIRECT APPLICATION OF FDOT STANDARD INDEX 600 IS NOT ACCEPTABLE A PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY A FLORIDA PROFESSIONAL ENGINEER WHO HAS SUCCESSFULLY COMPLETED ADVANCED TRAINING IN MAINTENANCE OF TRAFFIC, AS DEFINED BY FDOT FOR APPROVAL BY THE COUNTY ENGINEER'S REPRESENTATIVE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNER OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR; REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA; LOCATING ALL UNDERGROUND FACILITIES DURING CONSTRUCTION; THE SAFETY AND PROTECTION THEREOF; REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

C. PROTECTION OF EXISTING PLANT MATERIALS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC... THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED ON SITE. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF THREE HUNDRED DOLLARS ($300) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

2. SEE TREE MITIGATION PLAN AND NOTES, IF APPLICABLE.

D. MATERIALS

1. GENERAL

MATERIAL SAMPLES LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON SITE OR AS DETERMINED BY THE OWNER. UPON APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL	SAMPLE SIZE
MULCH	ONE (1) CUBIC FOOT
TOPSOIL MIX	ONE (1) CUBIC FOOT
PLANTS	ONE (1) OF EACH VARIETY (OR TAGGED IN NURSERY)

2. PLANT MATERIALS

a. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE.

b. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

c. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY. SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

1. CONTRACTOR SHALL TEST EXISTING SOIL AND AMEND AS NECESSARY IN ACCORDANCE WITH THE GUIDELINES BELOW:

2. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE PART SAND, AS DESCRIBED BELOW. CONTRACTOR TO SUBMIT SAMPLES AND PH TESTING RESULTS OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

a. TOPSOIL FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND HAVE A PH BETWEEN 5.5 AND 7.0.

b. SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND.

2. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE - AT WHICH POINT THE CONTRACTOR SHALL CONTACT OWNER'S REPRESENTATIVE TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.

F. WATER

1. WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC.... IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

* WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.

* FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

H. MULCH

1. MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF THREE (3) INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). MULCH SHALL BE "FLORIMULCH," EUCALYPTUS MULCH, OR SIMILAR SUSTAINABLY HARVESTED MULCH UNLESS SPECIFIED OTHERWISE.

2. PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT (6' MINIMUM) PLANTED UNDER THIS CONTRACT.

I. DIGGING AND HANDLING

1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO THE SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.

2. BALLED AND BURLAPPED (B&B), AND FIELD GROWN (FG) PLANTS SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS SHALL NOT BE HANDLED BY STEMS.

3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING TRANSPORTATION AND PRIOR TO PLANTING.

4. PROTECTION OF PALMS: ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL.

5. EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB-BASES.

J. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.

2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG ENOUGH FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.

3. ROOT BOUND PLANTS ARE NOT ACCEPTABLE AND WILL BE REJECTED.

4. RPG= "ROOTS PLUS GROWER" CONTAINER PRODUCTS SHALL BE USED WHERE SPECIFIED.

K. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

L. NATIVE STOCK

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.

N. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.

3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES, IF APPLICABLE.

O. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER DAILY. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.

2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811) TO LOCATE UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36" OR TO NATIVE SOIL. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE POOR DRAINAGE CONDITION PLANTING DETAIL.

4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS SPECIFIED HEREIN. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.

5. COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE, PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ONSITE SHALL NOT REMAIN UNPLANTED OR APPROPRIATELY HEALED IN FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.

6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.

7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACK FILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.

8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.

9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.

10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACK FILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).

11. AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.

12. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET, ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE. ALL BURLAP, ROPE, WIRES, BASKETS, ETC.., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.

13. TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY CERTIFIED ARBORIST, IN ACCORDANCE WITH ANSI A-300.

14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. MATERIALS INSTALLED SHALL MEET MINIMUM SPECIMEN REQUIREMENTS OR QUANTITIES SHOW ON PLANS, WHICHEVER IS GREATER. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. MIX TOP 4" THE PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

15. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE PROJECT LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.

16. ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

P. LAWN SODDING

1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.

2. ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS BY MEANS OF A SOD CUTTER TO A DEPTH OF THREE (3) INCHES, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.

3. PREPARE LOOSE BED FOUR (4) INCHES DEEP. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.

4. SODDING

a. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.

b. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.

c. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.

5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.

6. LAWN MAINTENANCE

a. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).

b. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

Q. CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

S. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

T. WARRANTY

1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED (INCLUDING SOD) BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

2. ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED AT NO ADDITIONAL COST TO THE OWNER.

3. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE, THE CONTRACTOR SHOULD VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

1 / L1.51 TYPICAL LANDSCAPE SPECIFICATIONS (FLORIDA)

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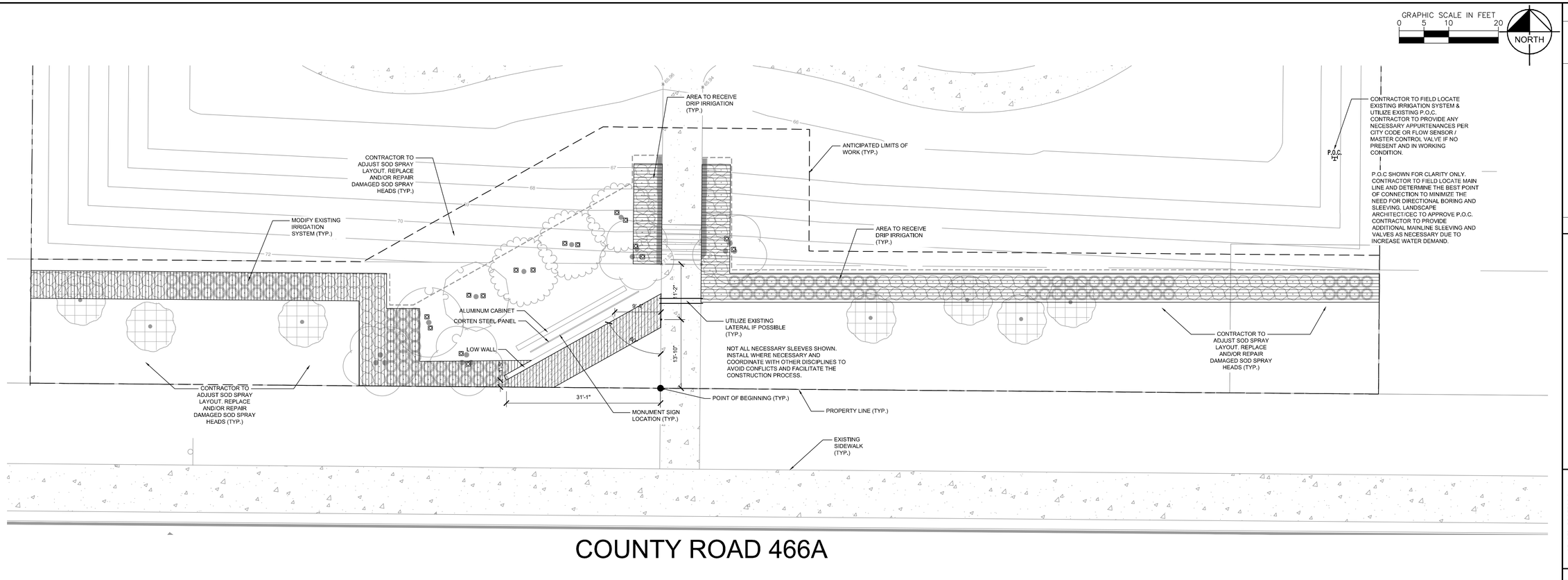
LICENSED PROFESSIONAL
DATE: 6/22/2021

KHA PROJECT 142173000
DATE 11/2/2020
SCALE AS SHOWN
DESIGNED BY JJZ
DRAWN BY JJZ
CHECKED BY KHA

LANDSCAPE SPECIFICATIONS

CITY OF WILDWOOD GATEWAY MONUMENT SIGN
CITY OF WILDWOOD FLORIDA

SHEET NUMBER
L1.51



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
1401 1402 1404 1408	RAIN BIRD 1804-SAM-PRS-1400 FLOOD FLOOD BUBBLER 4.0" POPUP WITH CHECK VALVE AND PRESSURE REGULATOR.	16	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFD-09-12 XFD ON-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.9 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART. WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. SPECIFY XF INSERT FITTINGS.	1,917 L.F.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
P.O.C. "1"	POINT OF CONNECTION. CONTRACTOR TO LOCATE IN FIELD.	1
	PIPE SLEEVE: PVC SCHEDULE 40	8,7 L.F.

FLOW TOTALS
Area for Dripline: 28.3
Bubbler: 8.0
Total: 36.3 GPM

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

IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL NECESSARY MODIFICATIONS REQUIRED TO MEET THE SCHEMATIC INTENT OF THESE PLANS PRIOR TO SUBMITTING PROPOSAL. THESE PLANS OUTLINE THE OVERALL LAYOUT THE SYSTEM AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ZONE THE SYSTEM ACCORDINGLY BASED ON FLOW AND PRESSURE AVAILABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE FOLLOWING BUT NOT LIMITED TO AVAILABLE FLOW, AVAILABLE PRESSURE, CONNECTION ASSEMBLY, CAPACITY OF THE SYSTEM.

CONTRACTOR TO FIELD LOCATE EXISTING IRRIGATION EQUIPMENT(CONTROLLER, PUMP, ETC.). CONTRACTOR TO TURN ON IRRIGATION SYSTEM AND EVALUATE PERFORMANCE. MODIFICATION TO THE SYSTEM SHALL BE MADE BY THE GENERAL CONTRACTOR. CONTRACTOR RESPONSIBLE FOR PROVIDING THE PROPER WATER TO ALL NEW VEGETATION CONDUCIVE FOR ESTABLISHING/ MAINTAINING THE HEALTH AND VIGOR OF ALL PLANT MATERIAL. COORDINATE ANY REPAIRS/MODIFICATIONS WITH ALL ASSOCIATED PARTIES INVOLVED. CONTRACTOR RESPONSIBLE FOR ENSURING ALL NEW/EXISTING PLANT MATERIAL TO BE PROPERLY IRRIGATED.

CONTRACTOR TO AVOID INTERFERENCE WITH **ALL** UNDERGROUND UTILITIES (EXISTING AND PROPOSED). CONTRACTOR TO COORDINATE WITH OTHER DISCIPLINES FOR LOCATION OF **ALL** EXISTING AND PROPOSED UTILITIES.

CONTRACTOR RESPONSIBLE FOR EVALUATING EXISTING IRRIGATION SYSTEM AND PROVIDING ALL NECESSARY EQUIPMENT (DRIP LINE, HEADS, VALVES, ETC. TO PROVIDED FULL, 100%, HEAD-TO-HEAD COVERAGE TO ALL PROPOSED AND MODIFIED LANDSCAPE AREAS.

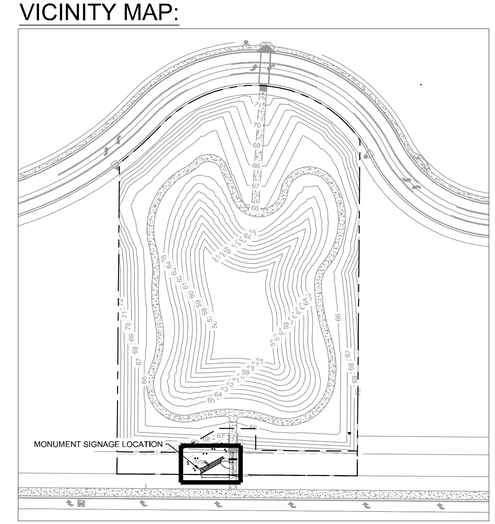
CONTRACTOR RESPONSIBLE FOR EVALUATING/ CONNECTING TO EXISTING SYSTEM AND ZONING (POTENTIALLY ADDING NEW VALVES) AS NECESSARY. FIELD LOCATE ALL EQUIPMENT NEEDED FOR IRRIGATION MODIFICATION/EXPANSION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE P.O.C FOR INCLUSION INTO THE SYSTEM (INCLUDES ALL NECESSARY BORING, TRENCHING, ETC.)

COORDINATE/DISCUSS PROJECT LIMITS WITH GENERAL CONTRACTOR TO ENSURE ALL IRRIGATION EQUIPMENT IS INSTALLED WITHIN PROJECT AREA.

IRRIGATION NOTES

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

VICINITY MAP:



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LICENSED PROFESSIONAL

DATE: 03/30/2021

KHA PROJECT 142173000
DATE 11/2/2020
SCALE AS SHOWN
DESIGNED BY JJZ
DRAWN BY JJZ
CHECKED BY KHA

IRRIGATION PLAN

CITY OF WILDWOOD GATEWAY MONUMENT SIGN

CITY OF WILDWOOD FLORIDA

SHEET NUMBER
L2.00

Plotted By:Zheng, Jim Sheet Set:Trailwinds Village Monument Signage Layout:IRRIGATION PLAN June 22, 2021 03:36:29pm K:\ORL_LA\OCALA\142173000 Trailwinds Village Monument Sign\CAD\CONST\PlanSheets\L2.00 - Irrigation Plan.dwg
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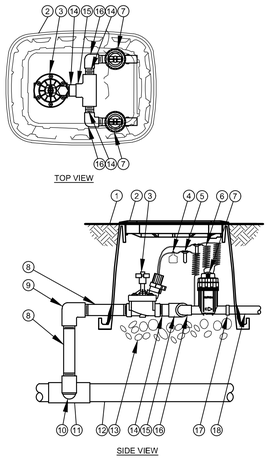
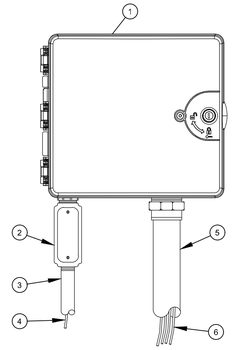


1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER:
3. REMOTE CONTROL VALVE:
4. ID TAG
5. WATERPROOF CONNECTION:
6. 30-INCH LINEAR LENGTH OF WIRE, COILED
7. PRESSURE REGULATING QUICK CHECK BASKET FILTER:
8. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
9. PVC SCH 40 ELL
10. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
11. PVC SCH 40 TEE OR ELL
12. MAINLINE PIPE
13. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
14. PVC SCH 80 NIPPLE, CLOSE
15. PVC SCH 40 TEE
16. PVC SCH 40 ELL
17. PVC SCH 40 FEMALE ADAPTOR
18. LATERAL PIPE

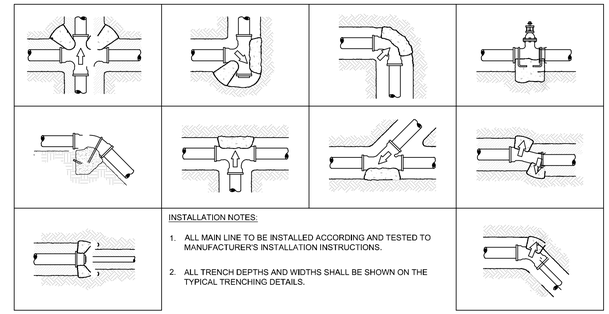
1 COMMERCIAL CONTROL DRIP ZONE VALVE KIT
L2.50 SECTION / PLAN — NTS



1. IRRIGATION CONTROLLER: CONTROLLER (OWNER TO SPECIFY WALL MOUNT OR STAINLESS STEEL PEDESTAL MOUNT). INSTALL 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

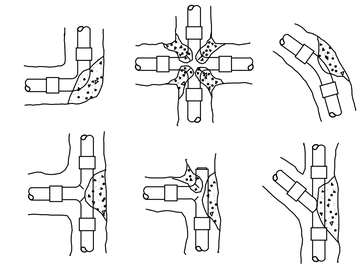
NOTES:
1. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
2. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT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

2 TYPICAL CONTROLLER
L2.50 ELEVATION — NTS



INSTALLATION NOTES:
1. ALL MAIN LINE TO BE INSTALLED ACCORDING AND TESTED TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. ALL TRENCH DEPTHS AND WIDTHS SHALL BE SHOWN ON THE TYPICAL TRENCHING DETAILS.

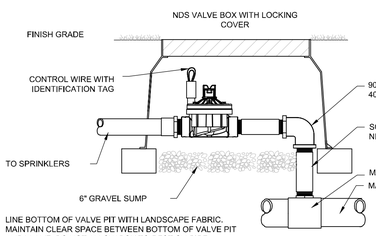
3 TYPICAL THRUST BLOCK
L2.50 SECTION — NTS



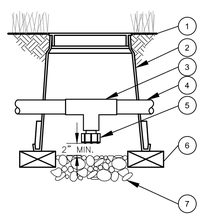
INSTALLATION NOTES
1. 3000 PSI CONCRETE OR BETTER IS TO BE USED FOR THRUST BLOCKS.
2. FOR 45°/90° FITTINGS, MINIMUM OF 2 CUBIC FEET OF CONCRETE TO BE USED.
3. FOR 22-1/2° FITTINGS, MINIMUM OF 0.5 CUBIC FEET OF CONCRETE TO BE USED.
4. FOR TEES, MINIMUM OF 2 CUBIC FEET OF CONCRETE TO BE USED, THRUST

BLOCKS REQUIRED FOR IRRIGATION MAINLINE ≥ 1 1/2" AND LARGER.

4 THRUST BLOCK REINFORCEMENT
L2.50 SECTION — NTS

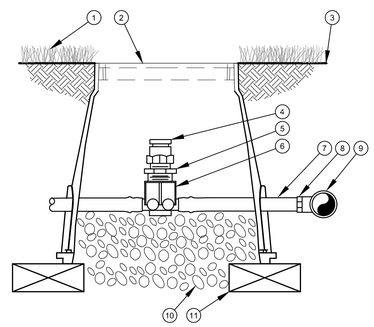


5 TYPICAL CONTROL VALVE
L2.50 SECTION — NTS



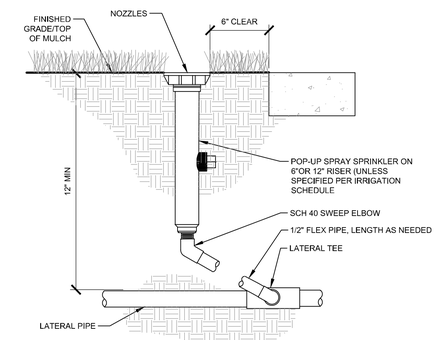
1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER:
3. PVC SCH 40 TEE
4. PVC LATERAL PIPE
5. FILTERED DRAIN VALVE:
6. BRICK (1 OF 2)
7. 6-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

6 DRAIN VALVE
L2.50 SECTION — NTS

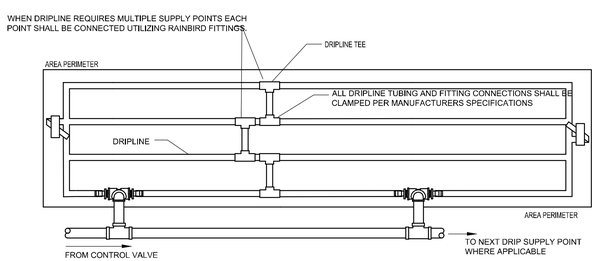


1. TURF GRASS
2. VALVE BOX LID
3. FINISH GRADE
4. ½" AIR RELIEF VALVE: TO BE INSTALLED AT HIGH POINTS IN DRIP ZONE
5. ½" X ¾" PVC REDUCER BUSHING
6. BARB X FEMALE THREAD CONNECTOR:
7. ½" BLANK DRIPLINE TUBING:
8. BARB X MALE THREAD CONNECTOR:
9. PVC TEE CONNECTED TO PVC HEADER PIPE
10. 3" MINIMUM DEPTH OF ¾" WASHED GRAVEL
11. BRICK (1 OF 2)

7 AIR RELIEF VALVE IN XFS DRIP LINE
L2.50 SECTION — NTS



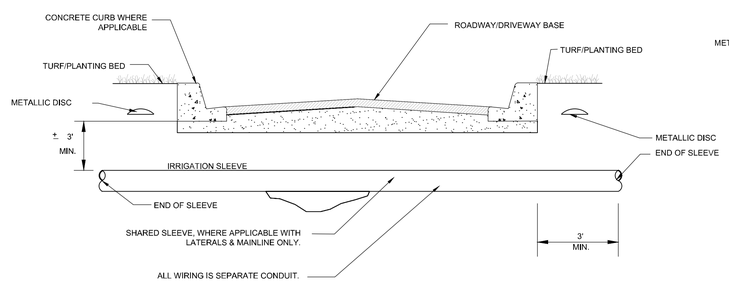
8 TYPICAL SPRAY / ROTAR HEAD
L2.50 SECTION — NTS



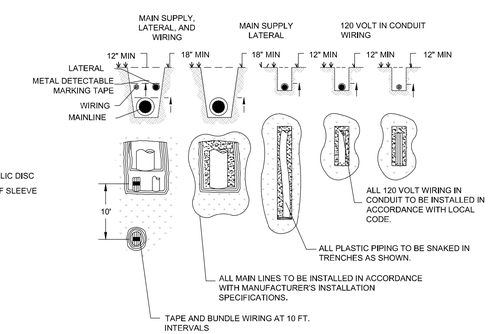
CONTRACTOR TO REFER TO IRRIGATION PLAN FOR LOCATION OF CONTROL VALVES THAT UTILIZE MULTIPLE DRIPLINE SUPPLY CONNECTIONS. IF NOT SHOWN, INSTALL WITHIN ADJACENT GREEN AREA NOT IN A HIGHLY VISIBLE AREA.

NOTE:
1. DRIP TUBING TO BE ROUTED IN THE PLANT MATERIAL BED WITH AT MAXIMUM LATERAL SPACING OF 16 INCHES.
2. DRIP TUBING TO BE INSTALLED IN A GRID PATTERN. DRIP TUBING SHALL NOT BE INSTALLED IN A LONG CONTINUOUS RUN.
3. CONTRACTOR TO REFER TO IRRIGATION PLAN FOR LOCATION OF CONTROL VALVES THAT UTILIZE MULTIPLE DRIPLINE SUPPLY CONNECTIONS (IF SHOWN).

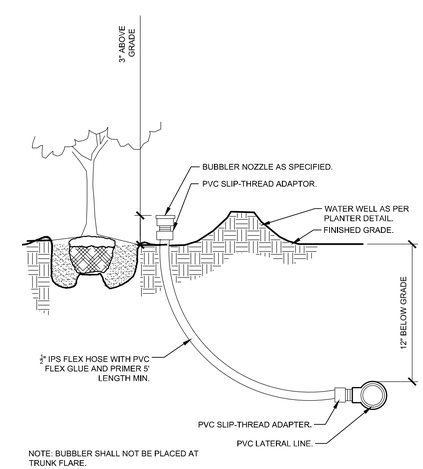
9 TYPICAL DRIP LINE
L2.50 PLAN — NTS



10 TYPICAL SLEEVING
L2.50 SECTION — NTS



11 TYPICAL TRENCHING
L2.50 SECTION / PLAN — NTS



NOTE: BUBBLER SHALL NOT BE PLACED AT TRUNK FLARE.

12 TYPICAL BUBBLER
L2.50 SECTION — NTS

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LICENSED PROFESSIONAL
DATE: 6/22/2021

KHA PROJECT 142173000
DATE 11/2/2020
SCALE AS SHOWN
DESIGNED BY JJZ
DRAWN BY JJZ
CHECKED BY KHA

IRRIGATION DETAILS

CITY OF WILDWOOD GATEWAY MONUMENT SIGN
CITY OF WILDWOOD FLORIDA

SHEET NUMBER
L2.50

Plotted By:Zheng, Jim Sheet Set:Trailwinds Village Monument Signage Layout:L2.50 June 22, 2021 03:36:41pm K:\ORL_LA\OCALA\142173000 Trailwinds Village Monument Sign\CAD\CONST\PlanSheets\L2.50 - Irrigation Details.dwg
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IRRIGATION SYSTEM NOTES:

1. SET SPRAY HEADS 6" AND ROTORS 12" IN FROM BACK OF CURB OR 24" IF PAVEMENT HAS NO CURB.
2. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL NECESSARY MODIFICATIONS REQUIRED TO MEET THE SCHEMATIC INTENT OF THESE PLANS PRIOR TO SUBMITTING PROPOSAL. THESE PLANS OUTLINE THE OVERALL LAYOUT THE SYSTEM AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ZONE THE SYSTEM ACCORDINGLY BASED ON FLOW AND PRESSURE AVAILABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE FOLLOWING BUT NOT LIMITED TO AVAILABLE FLOW, AVAILABLE PRESSURE, CONNECTION ASSEMBLY, CAPACITY OF THE SYSTEM.
3. CONTRACTOR TO PROVIDE NEW AUTOMATIC CONTROLLER FOR PROPOSED SYSTEM (NO BATTERY OPERATED CONTROLLERS ALLOWED). COORDINATE LOCATION WITH OWNER.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AUTOMATIC RAIN SENSOR. COORDINATE LOCATION W/ OWNER.
5. IRRIGATION SHALL NOT BE COMBINED ON A SINGLE ZONE AND SHALL BE ZONED ACCORDING TO IRRIGATION TYPE, PRECIPITATION RATE, AND THE SYSTEM'S AVAILABLE WATER / PRESSURE. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO OWNER FOR REVIEW PRIOR TO INSTALLATION.
6. VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THESE PLANS-CONTRACTOR SHALL FIELD VERIFY.
7. CONTRACTOR TO FIELD VERIFY ALL POINT OF CONNECTION SOURCE INFORMATION INCLUDING PSI AND GPM PRIOR TO CONSTRUCTION.
8. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON-SITE.
9. CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN FOR PLANTER BED AND TREE LOCATIONS TO ENSURE ALL PLANT MATERIAL IS COVERED BY 100% HEAD-TO-HEAD IRRIGATION.
10. CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT.
11. PRODUCTS SHALL BE AS SPECIFIED OR APPROVED EQUAL.

PRE-APPROVED MANUFACTURERS:
1. TORO
2. HUNTER
3. RAINBIRD

12. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE, COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR. WORK IN THE R.O.W. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE JURISDICTION.
13. LOCATE ALL IRRIGATION LINES WITHIN LANDSCAPED AREAS WHENEVER POSSIBLE. ALL LINES UNDER PAVEMENT MUST BE SLEEVED WITHIN SCH. 40 PVC 2x SIZE OF PIPE AND FREE OF STONES/DEBRIS. ALL VALVES SHALL BE LOCATED WITHIN LANDSCAPED AREAS.
14. MAINLINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE.
15. THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR SLEEVING AND DIRECTIONAL BORES.
16. ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR WHETHER INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS. THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF THE SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION ON THE "AS-BUILT" DRAWINGS. ALL SLEEVES ON PLAN FOR WALL PENETRATIONS AND UNDER SIDEWALKS SHALL BE SIZED TWO PIPE SIZES GREATER THAN THE PIPE IT CARRIES.
17. ALL PRESSURIZED MAINLINES AND LATERALS UNDER PAVEMENT SHALL BE WITHIN SCH. 40 PVC SLEEVES. WHERE ELECTRIC OR HYDRAULIC VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT.
18. NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT BLACK LETTERS TO CORRESPOND TO AUTOMATIC AND GATE VALVE DESIGNATIONS. ALL HOSE BIBB VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "HB", LETTER OUTSIDE OF TIME CLOCK CABINETS TO CORRESPOND WITH IRRIGATION CLOCK PROGRAM DESIGNATION.
19. THE IRRIGATION CONTRACTOR SHALL INSTALL A COLOR CODED METAL DETECTABLE MARKING TAPE WHICH CLEARLY NOTES: "CAUTION: IRRIGATION LINE BURIED BELOW." THE TAPE SHALL BE INSTALLED THE FULL LENGTH OF THE IRRIGATION MAINLINE.
20. ELECTRIC SERVICE TO THE CONTROLLER SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
21. ALL 24 VAC WIRING FROM DECODER TO VALVE SHALL BE OF DIRECT BURIAL COPPER WIRE. MAXIMUM LENGTH OF WIRE FROM DECODER TO VALVE SHALL NOT EXCEED 400 FEET. AS FOLLOWS:
    CONTROL WIRES - #14
    COMMON WIRES - #14
22. ALL VALVES, SPLICES WITHIN CONTROL LINES, AND QUICK COUPLERS SHALL BE LOCATED WITHIN NDS VALVE BOXES AS FOLLOWS:
    -RECTANGULAR 12"X17" HEAVY DUTY BOX. (PURPLE COVER FOR REUSE TO BE PROVIDED WHERE APPROPRIATE).
23. ALL IRRIGATION HEADS/DRIP TUBING SHALL BE LOCATED ONE (1) FOOT FROM BACK OF CURB WHEN NEXT TO A ROADWAY. (THIS SHALL NOT INCLUDE PARKING AREAS OR DRIVE AISLES).
24. HEADS, LATERALS, EMITTERS, AND VALVES ARE NOT SHOWN, BUT ARE NECESSARY FOR A FULLY FUNCTIONING IRRIGATION SYSTEM.
25. LOCATE ALL VALVES IN PLANTING BEDS WITH A MINIMUM OF 3'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAINLINE TO SECTION LATERAL SHALL BE ONE (1) PIPE SIZE LARGER THAN VALVE SIZE. WHERE MAINLINES RUN PARALLEL TO PAVEMENT OR CURBING, THE MAINLINE SHALL BE OFFSET 2'-0" FROM THE EDGE OF PAVEMENT OR CURB.
26. IRRIGATION ZONES SHALL BE SEPARATED FOR HIGH AND LOW WATER USE REQUIREMENTS AND OPERATED ON DIFFERENT WATERING CYCLES. BUBBLERS, DRIPLINE, AND SPRAY HEADS SHALL BE SEPARATED ON DIFFERENT VALVES. AT NO TIME SHALL MULTIPLE IRRIGATION HEAD TYPES BE LOCATED ON THE SAME VALVE.
27. ALL DRIP ZONES SHALL BE INSTALLED WITH A FLUSH VALVE AND AIR RELIEF VALVE. IN THE EVENT THAT A DRIP ZONE HAS MORE THAN ONE HIGH OR LOW POINT, MORE THAN ONE AIR RELIEF VALVE OR FLUSH VALVE WILL BE REQUIRED FOR THAT ZONE. DRIPLINE SHALL PROVIDE 0.9 GPH EMITTERS, 12" O.C. WITH 12" LINE SPACING AT A MINIMUM.
28. ALL WIRING FOR CONNECTION OF THE VALVES TO THE CONTROLLER SHALL FOLLOW MANUFACTURERS SPECIFICATIONS. IF REQUIRED, ALL WIRING FOR A TWO WIRE PATH SHALL BE WITH RED/BLUE TWISTED PAIR 14 AWG. ELECTRIC CONTROL LINES FROM THE DECODER TO THE SOLENOID VALVES SHALL BE TWISTED PAIR 18 AWG. ALL DECODERS SHALL BE GROUNDED EVERY 1,000 L.F. OR EVERY 10 DEVICES. ALL WIRE SHALL BE FURNISHED IN MINIMUM 2,500' REELS AND SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE IN VALVE BOXES OR CONTROLLERS ONLY. IRRIGATION SYSTEM CONTROL SHALL BE TWO WIRE PATH. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S REQUIREMENTS FOR THIS INSTALLATION. TWO WIRE SYSTEM SHALL HAVE 2-WAY COMMUNICATIONS FIELD PROGRAMMABILITY, STATION SPECIFICATIONS AND INTEGRATED SURGE PROTECTION.
29. ALL CONTROL WIRE SHALL BE INSTALLED IN A 1 $\frac{1}{2}$" ELECTRICAL CONDUIT.
30. SMALLEST DIAMETER LATERAL PIPE SHALL BE 3/4".
31. IRRIGATION SYSTEM SHALL BE CAPABLE OF SUPPLYING AN AVERAGE OF 1.05" OF WATER PER WEEK WITHIN WATERING RESTRICTIONS AS APPLICABLE.
32. IRRIGATION SYSTEM SHALL NOT BE INSTALLED THROUGH EXISTING, OR PRESERVED PLANT COMMUNITIES. DO NOT TRENCH THROUGH EXISTING ROOT SYSTEMS OF ANY VEGETATION INTENDED TO BE PRESERVED.
33. CONTRACTOR TO MINIMIZE IRRIGATION OVERTHROW TO IMPERVIOUS AND NATURAL AREAS THROUGH FIELD ADJUSTMENTS TO INDIVIDUAL HEADS.
34. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THE CONDITION DENOTED ON THE LANDSCAPE PLAN.
35. IRRIGATION PIPING INSTALLED UNDER ROADS AND SIDEWALKS SHALL BE IN SCHEDULE 40 PVC SLEEVING AT 2X THE PIPE SIZE. ALL SLEEVING SHALL BE FREE OF STONES AND DEBRIS.
36. IRRIGATION SOURCE TO BE EITHER WELL, POTABLE, OR NON-POTABLE WATER. IRRIGATION CONTRACTOR TO VERIFY SOURCE PRIOR TO DESIGN.
37. POINT OF CONNECTION TO BE DETERMINED BY OWNER. IRRIGATION SYSTEM CONNECTIONS TO THE LOCAL JURISDICTION SERVICE SHALL COMPLY WITH ALL APPLICABLE CODES.
38. IRRIGATION CONNECTION MAY REQUIRE BACKFLOW PREVENTION, VERIFY WITH LOCAL JURISDICTION.
39. IRRIGATION SYSTEM SHALL COMPLY WITH THE LOCAL JURISDICTION LAND DEVELOPMENT CODE.

1 / L2.51 TYPICAL SCHEMATIC IRRIGATION NOTES

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LICENSED PROFESSIONAL

DATE: 6/22/2021

KHA PROJECT 142173000
DATE 11/2/2020
SCALE AS SHOWN
DESIGNED BY JJZ
DRAWN BY JJZ
CHECKED BY KHA

IRRIGATION NOTES

CITY OF WILDWOOD GATEWAY MONUMENT SIGN

CITY OF WILDWOOD FLORIDA

SHEET NUMBER
L2.51

Plotted By:Zheng, Jim Sheet Set:Trailwinds Village Monument Signage Layout:L2.51 June 22, 2021 03:36:44pm K:\ORL_LA\OCALA\142173000 Trailwinds Village Monument Sign\CAD\CONST\PlanSheets\L2.50 - Irrigation Details.dwg
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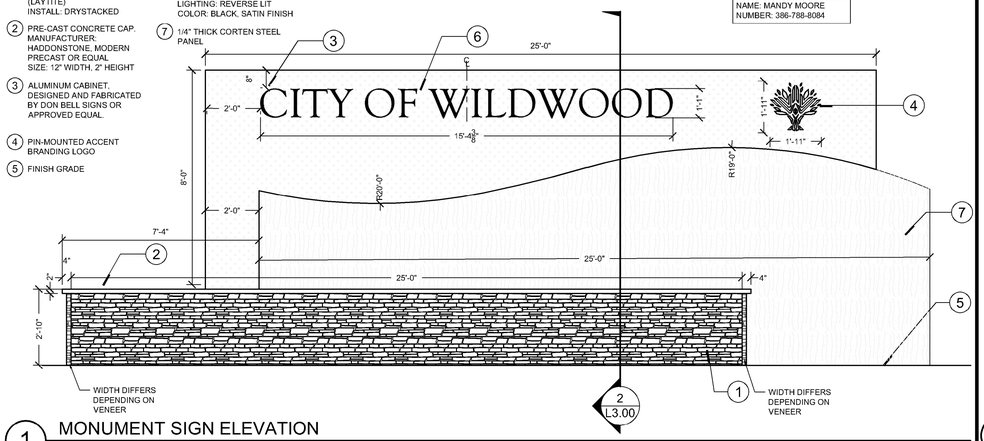
1. FLAGSTONE VENEER. MANUFACTURER: J & N STONE PRODUCT: TIMBERCREEK (LAYTITE) INSTALL: DRYSTACKED
2. PRE-CAST CONCRETE CAP. MANUFACTURER: HADDONSTONE, MODERN PRECAST OR EQUAL SIZE: 12" WIDTH, 2" HEIGHT
3. ALUMINUM CABINET, DESIGNED AND FABRICATED BY DON BELL SIGNS OR APPROVED EQUAL.
4. PIN-MOUNTED ACCENT BRANDING LOGO
5. FINISH GRADE
6. PAINTED CHANNEL LETTERS. FONT: GOUDY OLD STYLE - BOLD LIGHTING: REVERSE LIT COLOR: BLACK, SATIN FINISH
7. 1/4" THICK CORTEN STEEL PANEL

NOTE:
FOR TURNKEY SIGN -
CONTACT: DON BELL SIGNS
NAME: MANDY MOORE
NUMBER: 386-788-8084



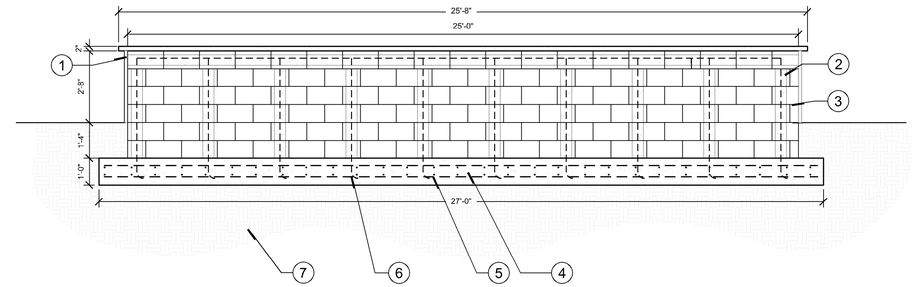
1 MONUMENT SIGN ELEVATION

3/8" = 1'-0"

1. FLAGSTONE VENEER. MANUFACTURER: J & N STONE PRODUCT: TIMBERCREEK (LAYTITE) INSTALL: DRYSTACKED
2. 8" CMU LAID IN RUNNING BOND (TYP), GROUT CMU SOLID AND REINFORCE WITH (1) #5 BAR @ 32" O.C., LAP ALL SPLICES 30" MIN.
3. STANDARD 9 GUAGE GALVANIZED SINGLE WYTHE LADDER TYPE HORIZONTAL JOINT REINFORCEMENT @ 16" O.C. VERTICALLY
4. CAST IN PLACE 4,000 PSI CONCRETE FOOTING. CONDUCT FOUNDATION EXCAVATION EVALUATION TO CONFIRM SUITABILITY FOR MAXIMUM ALLOWABLE BEARING PRESSURE OF 2,000 PSF
5. #5 BARS @ 12" O/C E.W. TOP AND BOTTOM
6. STD ACI HOOK (TYP)
7. COMPACTED SUBGRADE PREPARED PER STRUCTURAL NOTES

TIMBERCREEK STONE BY J&N STONE

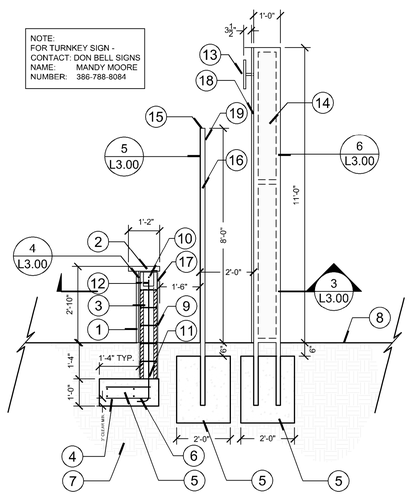
NOTE:
FOR TURNKEY SIGN -
CONTACT: DON BELL SIGNS
NAME: MANDY MOORE
NUMBER: 386-788-8084



4 FLAGSTONE WALL ELEVATION

3/8" = 1'-0"

NOTE:
FOR TURNKEY SIGN -
CONTACT: DON BELL SIGNS
NAME: MANDY MOORE
NUMBER: 386-788-8084

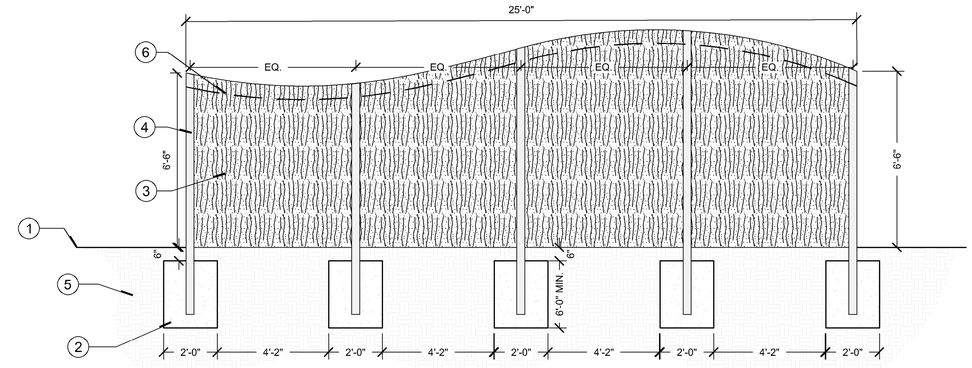


1. FLAGSTONE VENEER. MANUFACTURER: J & N STONE PRODUCT: TIMBERCREEK INSTALL: DRYSTACKED
2. PRE-CAST CONCRETE CAP. MANUFACTURER: HADDONSTONE, MODERN PRECAST OR EQUAL SIZE: 12" WIDTH, 2" HEIGHT
3. 8" CMU LAID IN RUNNING BOND (TYP), GROUT CMU SOLID AND REINFORCE WITH (1) #5 BAR @ 32" O.C., LAP ALL SPLICES 30" MIN.
4. #5 BARS @ 12" O/C E.W. TOP AND BOTTOM
5. CAST IN PLACE 4,000 PSI CONCRETE FOOTING. CONDUCT FOUNDATION EXCAVATION EVALUATION TO CONFIRM SUITABILITY FOR MAXIMUM ALLOWABLE BEARING PRESSURE OF 2,000 PSF
6. STD ACI HOOK (TYP)
7. COMPACTED SUB GRADE PREPARED PER STRUCTURAL NOTES
8. FINISH GRADE.
9. STANDARD 9 GUAGE GALVANIZED SINGLE WYTHE LADDER TYPE HORIZONTAL JOINT REINFORCEMENT @ 16" O.C. VERTICALLY
10. HORIZONTAL #5 BARS WITHIN U-BLOCK CMU BOND BEAM
11. PLACE FIRST COURSE IN FULL MORTAR BED
12. EXTEND VERTICAL REINENFORCEMENT INTO BOND BEAM (TYP.)
13. PIN-MOUNTED LETTERING. SEE LETTER ENLARGEMENT
14. ALUMINUM CABINET. DESIGN & FABRICATED BY OTHERS.
15. 1/4" THICK CORTEN STEEL PANEL BY OTHERS, WELDED TO STEEL POST
16. 2" X 2" STEEL POST BY OTHERS. COLOR TO BE CORTEN STEEL.
17. BACK OF WALL TO BE PAINTED. PAINT MANUFACTURER: SHERWIN WILLIAMS COLOR: LAZY GRAY SW 6254
18. CONCRETE STUCCO VENEER. COLOR TO BE: WHITE SNOW SW9541 TEXTURE: SMOOTH
19. LIGHTING BEHIND CORTEN STEEL TO CREATE AMBIANT/GLOW LIGHT

2 MONUMENT SIGN - SECTION

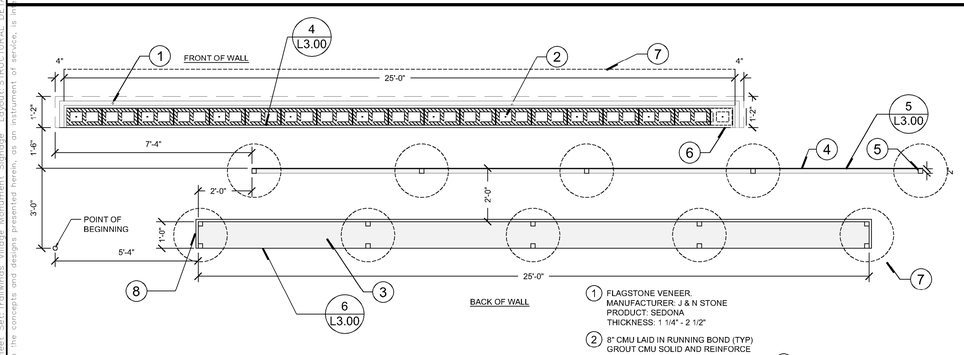
3/8" = 1'-0"

1. FINISH GRADE
2. CAST IN PLACE 4,000 PSI CONCRETE FOOTING. CONDUCT FOUNDATION EXCAVATION EVALUATION TO CONFIRM SUITABILITY FOR MAXIMUM ALLOWABLE BEARING PRESSURE OF 2,000 PSF
3. CORTEN STEEL WALL
4. STEEL POST BY OTHERS
5. COMPACTED SUB GRADE PER STRUCTURAL NOTES
6. LIGHTING BEHIND CORTEN STEEL TO CREATE AN AMBIAN GLOW LIGHT



5 CORTEN STEEL WALL ELEVATION

3/8" = 1'-0"

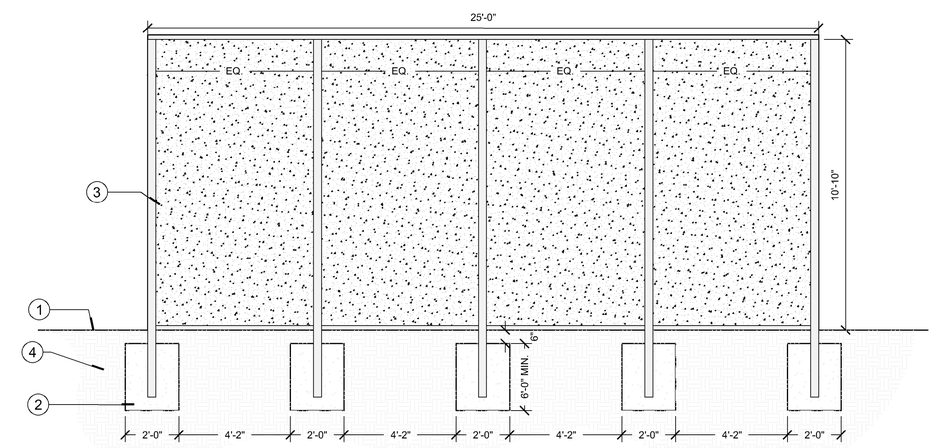


1. FLAGSTONE VENEER. MANUFACTURER: J & N STONE PRODUCT: SEDONA THICKNESS: 1 1/4" - 2 1/2"
2. 8" CMU LAID IN RUNNING BOND (TYP) GROUT CMU SOLID AND REINFORCE WITH ONE (1) #5 BAR @ 32" O.C. LAP ALL SPLICES 30" MINIMUM.
3. ALUMINUM CABINET. DESIGN & FABRICATED BY OTHERS.
4. 1/4" THICK CORTEN STEEL PANEL BY OTHERS
5. 2" X 2" STEEL POST BY OTHERS
6. EXTENT OF VENEER
7. FOUNDATION LIMITS SHOWN AS REFERENCE
8. CONCRETE STUCCO VENEER. COLOR: WHITE SNOW SW9541 TEXTURE: SMOOTH

3 MONUMENT SIGN LAYOUT PLAN

3/8" = 1'-0"

1. FINISH GRADE
2. CAST IN PLACE 4,000 PSI CONCRETE FOOTING. CONDUCT FOUNDATION EXCAVATION EVALUATION TO CONFIRM SUITABILITY FOR MAXIMUM ALLOWABLE BEARING PRESSURE OF 2,000 PSF
3. ALUMINUM CABINET. DESIGN & FABRICATED BY OTHERS
4. COMPACTED SUB GRADE PER STRUCTURAL NOTES



6 ALUMINUM CABINET ELEVATION

3/8" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER
LUKE ALEXANDER CLARK
LICENSE No 84000
STATE OF FLORIDA
DATE: 11/2/2020

KHA PROJECT	142173000
DATE	11/2/2020
SCALE	AS SHOWN
DESIGNED BY	JJZ
DRAWN BY	JJZ
CHECKED BY	KHA

STRUCTURAL DETAILS

CITY OF WILDWOOD GATEWAY MONUMENT SIGN

CITY OF WILDWOOD FLORIDA

SHEET NUMBER
L3.00

Plotted By: Zheng, Jun Sheet Set: Trailwinds Village Monument Signage Layout: STRUCTURAL DETAILS May 11, 2021 05:32:55pm K:\ORL_LA\OCALA\142173000 Trailwinds Village Monument Sign\CAD\CIVIL\PlanSheets\L3.00 - Hardscape Details.dwg
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STRUCTURAL NOTES

1. GENERAL:

(A) PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE. PROTECT THE WORK, ADJACENT PROPERTY, AND THE PUBLIC. CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLECT.

(B) THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY AND CONSTRUCTION PROCEDURES.

(C) PRIOR TO CONSTRUCTION, FIELD VERIFY ALL DIMENSIONS IN THE DRAWINGS AND DETAILS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.

(D) REFER TO THE ENGINEER FOR INSTRUCTION FOR ANY DIMENSION NOT GIVEN ON DRAWINGS. SCALING OF DRAWINGS SHALL NOT BE USED TO OBTAIN OR VERIFY ANY DIMENSION SHOWN ON THE DRAWINGS.

(E) CONTRACTOR IS RESPONSIBLE FOR HIRING GEOTECHNICAL CONSULTANT FOR CONSTRUCTION TESTING AND APPROVAL OF FILL AND COMPACTION.

(F) CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING FOR FOUNDATION CONSTRUCTION, IF REQUIRED.

2. CONCRETE:

(A) ALL CONCRETE MATERIALS, PLACING AND HANDLING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318 AND ACI 301.

(B) ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI (UNLESS OTHERWISE NOTED).

(C) PROVIDE 3" CONCRETE COVER OVER REINFORCING BARS EXCEPT AS OTHERWISE NOTED.

(D) FORM TIES AND REINFORCING BAR SUPPORTS SHALL BE OF NON-CORROSIVE MATERIAL INCLUDING, BUT NOT LIMITED TO, FIBERGLASS, PLASTIC, AND/OR CONCRETE BLOCK.

(E) CONCRETE FINISHES: FORMED SURFACE-SMOOTH FORM FINISH PER ACI 301.

(F) ALL GROUT SHALL BE NON-SHRINK, NON-METALLIC.

(G) CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS:
1. APPLY A LIQUID MEMBRANE CHEMICAL CURING COMPOUND IN ACCORDANCE WITH ASTM C-309.
2. WET CURE IN ACCORDANCE WITH ACI 301.

(H) ALL CONCRETE CONSTRUCTION SHALL BE DONE IN THE DRY.

(I) CONCRETE SHALL BE IN ACCORDANCE WITH ASTM C94:
1. TYPE II PORTLAND CEMENT - ASTM C150
2. AGGREGATES (3/4" MAX.) - ASTM C33
3. USE OF CALCIUM CHLORIDE IS NOT PERMITTED
4. AIR ENTRAINING (4% MAX.) - ASTM C260
5. WATER REDUCING - ASTM C494
6. FLY ASH (MAX 20% BY WEIGHT), TYPE F - ASTM C618
7. WATER - CLEAN AND POTABLE
8. MAXIMUM WATER CEMENT RATIO FOR 4,000 PSI, 28-DAY COMPRESSIVE STRENGTH = 0.45

(J) REQUIRED SLUMP: 2" TO 4"

(K) CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF ALL FORMWORK AND SHORING. DESIGN SHALL BE PERFORMED BY A LICENSED FLORIDA PROFESSIONAL ENGINEER.

(L) A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING CONCRETE TESTS:
1. CYLINDER STRENGTH TESTS - ASTM C39. ONE SET OF FIVE CYLINDERS FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF PLACED. TEST ONE AT 3 DAYS, ONE AT 7 DAYS, TWO AT 28 DAYS, AND HOLD ONE.
2. SLUMP TESTS - ASTM C143

(M) ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, ENGINEER, AND CONTRACTOR.

(N) CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME

(O) ALL CONCRETE SHALL BE CONSOLIDATED IN PLACE USING INTERNAL VIBRATORS

(P) SUBMITTALS:
1. SUBMIT PROPOSED CONCRETE MIX DESIGN PRIOR TO CONSTRUCTION
2. SUBMIT DETAILED SHOP DRAWINGS OF REINFORCING BARS SHOWING NUMBER, SIZE, AND LOCATION. INCLUDE BAR LISTS AND BEND DIAGRAMS.

3. CONCRETE MASONRY UNITS:

(A) MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1 /ASCI 6 /TMS 602)," PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, DETROIT, MICHIGAN, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE PLANS AND CONTRACT DOCUMENTS.

(B) ALL CONCRETE MASONRY UNITS SHALL BR HOLLOW LOAD BEARING UNITS IN ACCORDANCE WITH A.S.T.M C-90, TYPE II, NORMAL WEIGHT, fm'=1500 PSI

(C) INSTALLATION, ALIGNMENT, STORAGE AND HANDLING SHALL COMPLY WITH ACI 530 BUILDING REQUIREMENTS FOR MASONRY STRUCTURES, LATEST EDITION.

(D) MASONRY UNIT SIZES SHALL BE AS INDICATED ON THE PLANS, AND SHALL BE FREE FROM CHIPS AND CRACKS ON ALL EXPOSED SURFACES.

(E) REINFORCE MASONRY UNIT CORES AND CAVITIES WITH REINFORCEMENT BARS AND GROUT AS INDICATED IN THE PLANS. MORTAR SHALL BE CURED FOR A MINIMUM OF 24 HOURS BEFORE FILLING CELLS WITH GROUT. VERTICAL REINFORCEMENT SHALL BE MAINTAINED IN POSITION AT TOP AND BOTTOM OF CELLS.

(F) MASONRY UNIT SURFACE IN CONTACT WITH GROUT SHALL BE WETTED JUST PRIOR TO GROUT PLACEMENT. MATERIALS AND SURROUNDING AIR TEMPERATURE SHALL BE MAINTAINED TO A MINIMUM 50°F PRIOR TO, DURING AND FOR AT LEAST 48 HOURS AFTER COMPLETION OF MASONRY WORK.

(G) CONCRETE MASONRY UNITS SHALL BE LAID IN RUNNING BOND.

(H) BUTTERING CORNERS OF JOINTS OR EXCESSIVE FURROWING OF MORTAR JOINTS IS NOT PERMITTED.

(I) DO NOT SHIFT OR TAP MASONRY UNITS AFTER MORTAR HAS ACHIEVED INITIAL SET. WHERE ADJUSTMENT MUST BE MADE, REMOVE AND REPLACE MORTAR.

(J) ENSURE THAT ALL BRACING OF MASONRY DURING CONSTRUCTION SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION EXCEEDING 8 FEET TALL.

(K) ALL WALL CORNERS AND INTERSECTIONS SHALL HAVE (1) CELL GROUTED AND REINFORCED WITH (1) #5 VERTICAL UNLESS OTHERWISE NOTED.

(L) GROUT AND REINFORCE WITH (1)#5 VERTICAL (1) CELL EACH SIDE OF ALL WALL OPENINGS UNLESS OTHERWISE NOTED.

(M) FULLY GROUT ALL MASONRY BELOW FINISHED GRADE

4. MORTAR AND GROUT:

(A) MORTAR FOR UNIT MASONRY SHALL BE TYPE S MASONRY CEMENT IN ACCORDANCE WITH A.S.T.M. C-270. MORTAR INGREDIENTS SHALL BE THOROUGHLY MIXED IN QUANTITIES NEEDED FOR IMMEDIATE USE. IF WATER IS LOST BY EVAPORATION, RETEMPERING SHALL OCCUR WITHIN 1-1/2 HOURS OF MIXING. DO NOT RETEMPER MORTAR AFTER 1-1/2 HOURS OF MIXING.

(B) GROUT FOR ALL MASONRY SHALL BE IN ACCORDANCE WITH A.S.T.M. C-476.

(C) GROUT FILL FOR MASONRY SHALL HAVE A 28-DAY STRENGTH OF 4000 PSI, WITH AN 10-11 INCH SLUMP.

(D) WHEN GROUT PLACEMENT IS STOPPED FOR MORE THAN ONE (1) HOUR. CONTRACTOR SHALL TERMINATE GROUT 1-1/2 INCHES BELOW TOP OF UPPER MASONRY UNIT TO FORM A POSITIVE KEY FOR SUBSEQUENT GROUT PLACEMENT.

(E) CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF EACH CELL TO BE GROUTED. MASONRY CELLS AND CAVITIES SHALL BE CLEANED WITH HIGH PRESSURE WATER SPRAY. OPENINGS SHALL BE SEALED WITH MASONRY UNITS AFTER CLEANED CELLS ARE INSPECTED.

(F) GROUT SHALL BE PUMPED, AND THE WATER CONTENT IN THE GROUT SHALL BE MAINTAINED TO THE INTENDED SLUMP WITHOUT AGGREGATE SEPARATION.

5. REINFORCEMENT:

(A) REINFORCING STEEL SHALL BE A.S.T.M. A-615 WITH SUPPLEMENT, GRADE 60: MINIMUM WORKING STRESS - 24,000 PSI.

(B) ALL REINFORCING SHALL BE UNCOATED (BLACK).

(C) ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING BARS ARE TO CENTERLINE BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.

(D) ACI STANDARD HOOKS SHALL BE USED UNLESS OTHERWISE NOTED.

(E) ALL LAP SPLICE LENGTHS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318 AND CRSI STANDARD PRACTICES FOR CLASS 'B' SPLICES, EXCEPT AS OTHERWISE NOTED.

6. FOUNDATIONS:

(A) NOTIFY THE ENGINEER IMMEDIATELY OF ANY EXISTING FOUNDATION CONDITIONS OR DETAILS THAT ARE IN CONFLICT WITH THOSE INDICATED AND SHOWN IN THE DRAWINGS.

(B) ALL FILL SHOULD CONSIST OF CLEAN SAND WITH LESS THAN 5% PASSING THE NO. 200 SIEVE AND BE FREE OF RUBBLE, ORGANICS, CLAY, DEBRIS, AND OTHER UNSUITABLE MATERIAL.

(C) FOUNDATION DESIGN IS BASED ON THE FOLLOWING:
- SHALLOW SPREAD FOOTINGS ARE DESIGNED BASED ON AN ALLOWABLE BEARING PRESSURE OF 2,000 PSF. THE GEOTECHNICAL ENGINEER EMPLOYED BY THE OWNER IS TO VERIFY SOIL BEARING PRESSURE IN THE FIELD.

(D) STRUCTURAL FILL SHOULD BE PLACED IN LOOSE LIFTS NOT EXCEEDING 12 INCHES IN THICKNESS AND SHOULD BE COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557). GENERALLY, THE MOISTURE CONTENT OF THE FILL MATERIALS SHOULD BE MAINTAINED WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT.

(E) THE TOP 18" BELOW THE FOUNDATIONS AND EXTENDING A MINIMUM 2'-0" BEYOND THE EDGE OF THE FOUNDATION ON ALL SIDES SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557). VERIFY FIELD DENSITY (ASTM D-1557) WITH AT LEAST ONE TEST PER 2,000 SQ. FT. PER FOOT OF SOIL.

7. DESIGN CRITERIA:

(A) WIND SPEED DATA:
- ULTIMATE DESIGN WIND SPEED = 123 MPH
- RISK CATEGORY " I "
- EXPOSURE " C "

(B) CODES:
- 2020 FLORIDA BUILDING CODE
- ASCE 7-16
- ACI 318-14
- ACI 530-13

No.	REVISIONS	DATE	BY

Kimley»Horn
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WWW.KIMLEY-HORN.COM CA 00000696

LICENSED PROFESSIONAL ENGINEER
BLAKE ALEXANDER CLARK
LICENSE
No 84000
STATE OF FLORIDA

KHA PROJECT	142173000
DATE	11/2/2020
SCALE	AS SHOWN
DESIGNED BY	JJZ
DRAWN BY	JJZ
CHECKED BY	KHA

DATE:

STRUCTURAL NOTES

CITY OF WILDWOOD
GATEWAY
MONUMENT SIGN

CITY OF WILDWOOD FLORIDA

SHEET NUMBER
L3.01

Plotted By: Zhang, Jun Sheet Set: Trailwinds Village Monument Signage Layout: STRUCTURAL NOTES May 11, 2021 05:06:35pm K:\ORL_LA\OCALA\142173000 Trailwinds Village Monument Signage\CAD\CONST\PlanSheets\L3.00 - Hardscape Details.dwg
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GENERAL NOTES AND SPECIFICATIONS

GENERAL NOTES

1. THE ELECTRICAL WORK IS SUBJECT TO ALL OF THE CLIENT'S TERMS, CONDITIONS AND SPECIFICATION, INCLUDING WORKMANSHIP. GENERAL WORK PRACTICE FOR ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NECA 1 "STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION" (ANSI).
2. IT IS THE INTENT OF THESE ELECTRICAL DRAWINGS TO CALL FOR FINISHED WORK; TESTED, AND READY FOR OPERATION. FOR THE ELECTRICAL WORK, "PROVIDE" IS AN ALL-INCLUSIVE TERM REQUIRING CONTRACTOR TO PROCURE, FABRICATE, FURNISH, INSTALL, MOUNT, WIRE, CONNECT AND SUPPLY ALL MATERIAL AND LABOR NECESSARY TO COMPLETE THE WORK TO THE ACCEPTANCE OF THE OWNER AND THE AUTHORITY HAVING JURISDICTION (AHJ).
3. UNLESS OTHERWISE NOTED, ALL CONDUITS SHALL HAVE A MINIMUM OF THIRTY-SIX (36) INCHES OF COVER.
4. CONTRACTOR MUST HAVE ALL REQUIRED PERMITS IN-HAND BEFORE BEGINNING ANY CONSTRUCTION.
5. UNDER NO CIRCUMSTANCES SHALL THE ACTIVITIES OF THE CONTRACTOR OR ANY SUBCONTRACTORS CAUSE ANY INTERRUPTIONS TO THE SERVICE OPERATION OF EXISTING UTILITIES WITHOUT WRITTEN AUTHORIZATION FROM THE UTILITY OWNER AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL NOTIFY ALL UTILITIES INVOLVED AND MAKE THE NECESSARY ARRANGEMENTS FOR THE RELOCATION OF THESE UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL ENSURE THAT THE UTILITY OWNERS AND THE AHJ REPRESENTATIVE ARE NOTIFIED OF ANY TEMPORARY DISRUPTION OF SERVICE AT LEAST ONE WEEK IN ADVANCE.
6. AS REQUIRED, AND AT LEAST 14 DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL, VERIFY ALL EXISTING PUBLIC AND PRIVATE UTILITY LOCATIONS IN THREE DIMENSIONS ALONG PROJECT CORRIDOR. THE CONTRACTOR SHALL UTILIZE MANUAL OR NONDESTRUCTIVE (E.G., VACUUM EXCAVATION) METHODS TO PHYSICALLY EXPOSE UTILITIES FOR MEASUREMENT AND DATA RECORDING. ACCURACIES SHALL BE TO ONE HALF (0.5) INCH VERTICAL AND TO APPLICABLE HORIZONTAL SURVEY AND MAPPING ACCURACY. EXCAVATE TEST HOLES EXPOSING THE UTILITY TO BE MEASURED IN SUCH A MANNER THAT PROTECTS THE INTEGRITY OF THE UTILITY TO BE MEASURED. COMPLY WITH APPLICABLE UTILITY DAMAGE PREVENTION LAWS, PERMITS, AND SPECIFICATIONS AND COORDINATE WITH UTILITY AND OTHER INSPECTORS, AS REQUIRED. DETERMINE (A) THE HORIZONTAL AND VERTICAL LOCATION OF THE TOP AND/OR BOTTOM OF THE UTILITY; (B) THE ELEVATION OF THE EXISTING GRADE OVER THE UTILITY AT A TEST HOLE; (C) THE OUTSIDE DIAMETER OF THE UTILITY AND CONFIGURATION OF NON-ENCASED, MULTI-CONDUIT SYSTEMS; (D) THE UTILITY STRUCTURE MATERIAL COMPOSITION, WHEN REASONABLY ASCERTAINABLE; (E) THE BENCHMARKS AND/OR PROJECT SURVEY DATA USED TO DETERMINE ELEVATIONS; (F) THE PAVING THICKNESS AND TYPE, WHERE APPLICABLE; (G) THE GENERAL SOIL TYPE AND SITE CONDITIONS; AND (H) SUCH OTHER PERTINENT INFORMATION AS IS REASONABLY ASCERTAINABLE FROM EACH TEST HOLE SITE. IF THERE IS A POTENTIAL CONFLICT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. ANY DAMAGE TO UTILITIES, STRUCTURES AND/OR SERVICES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN A MANNER APPROVED BY AND COORDINATED WITH THE UTILITY OWNER.
7. CHAPTER 17-153 OF THE FLORIDA STATUTES REQUIRES THAT THE COMPANY PERFORMING THE EXCAVATION WORK SHALL NOTIFY ALL GAS UTILITIES A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO EXCAVATING. DRAWINGS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS (IF ANY ARE PRESENT), AND DO NOT SHOW SERVICE LINES. THE ONLY SAFE AND PROPER WAY TO LOCATE EITHER MAINS OR SERVICE LINES IS BY AN ON-SITE INSPECTION BY GAS SYSTEM PERSONNEL. THEREFORE, THE COMPANY PERFORMING THE EXCAVATION WORK IS INSTRUCTED TO TELEPHONE SUNSHINE ONE CALL AT 1-800-432-4770 AT LEAST THREE (3) WORKING DAYS BEFORE DIGGING IN THE CONSTRUCTION NO MACHINE EXCAVATION SHALL BE PERFORMED WITHIN FIVE (5) FEET OF A GAS MAIN WITHOUT THE UTILITY OWNERS PRESENCE.
8. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION EXISTING BEFORE COMMENCING CONSTRUCTION WORK.
9. EXCAVATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE OSHA TRENCH SAFETY ACT. THE DISPOSAL OF EXCESS/UNSUITABLE EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY/PROPERTY OF THE CONTRACTOR.
10. WHEN USING SCALED DATA CONSIDER THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE DURING REPRODUCTION.
11. ANY CONDUIT LENGTHS SHOWN ON PLANS ARE APPROXIMATE. ACTUAL LENGTHS ARE TO BE DETERMINED DURING CONSTRUCTION BY THE CONTRACTOR.
12. SUPPORT & PROTECT ALL EXISTING UTILITIES. CONTRACTOR SHALL CONTACT UTILITY OWNERS FOR LOCATION OF ALL EXISTING FACILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY OWNERS AND BE RESPONSIBLE FOR PROVIDING TEMPORARY SUPPORT FOR UTILITY POLES, GUY WIRES, AND ALL OTHER UTILITIES FACILITIES.
13. BENCHMARK LOCATIONS AND ELEVATION ARE SHOWN IN THE PLANS AS REPRESENTED BY SURVEYOR AT THE TIME OF THE SURVEY. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT THE TIME OF CONSTRUCTION AND INSTALL HIS OWN TEMPORARY BENCHMARKS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE AHJ FIELD REPRESENTATIVE.
14. CONTRACTOR SHALL MAINTAIN PEDESTRIAN SIDEWALKS ACCESS THROUGHOUT DURATION OF PROJECT.
15. THE LOCATION OF THE EXISTING UTILITIES, GAS, POWER, WATER, SEWER, PHONE AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING UNDERGROUND UTILITIES, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IF IT IS REQUESTED UTILITY COMPANIES MOVE THEIR PARTICULAR UTILITIES, ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
16. THE COORDINATES AND ELEVATIONS SHOWN HEREIN ARE BASED ON THE INFORMATION PROVIDED TO CABRAL ENGINEERING INC BY THE PRIME CONSULTANT.

CALL 2 WORKING DAYS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

GENERAL ELECTRICAL REQUIREMENTS

1. THE COMPLETE ELECTRICAL INSTALLATION SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE FOLLOWING CODES & STANDARDS:

   1.1. NFPA 70 NATIONAL ELECTRICAL CODE 2017 ED.

2. 'FURNISH AND INSTALL' AND 'PROVIDE' ARE EQUIVALENT TERMS WHICH INDICATE MATERIAL AND/OR EQUIPMENT SUPPLIED AND INSTALLED BY THIS CONTRACTOR.
   2.1. FURNISHED' DENOTES MATERIAL OR EQUIPMENT SUPPLIED BUT NOT INSTALLED BY THIS CONTRACTOR.
   2.2. 'INSTALLED' DENOTES THE SETTING IN POSITION OR CONNECTION OF MATERIAL OR EQUIPMENT BY THIS CONTRACTOR BUT SUPPLIED BY OTHERS.
3. IT IS THE REQUIREMENT OF THESE CONTRACT DOCUMENTS TO HAVE THE CONTRACTOR PROVIDE SYSTEMS AND COMPONENTS THAT ARE FULLY COMPLETE AND OPERATIONAL AND FULLY SUITABLE FOR THE INTENDED USE.
4. ELECTRICAL SYSTEMS SHALL BE INSTALLED AS A COMPLETE INSTALLATION. INCIDENTAL DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION SHALL BE INCLUDED IN THE WORK OF THIS CONTRACTOR.
5. PREBID SURVEY. CONTRACTOR SHALL SURVEY THE JOBSITE PRIOR TO SUBMITTING THEIR BID TO DETERMINE THE FOLLOWING:
   5.1. AREAS REQUIRING DEMOLITION, TEMPORARY POWER, RELOCATING, ETC. WHICH ARE INADVERTENTLY NOT SHOWN ON THE DRAWINGS.
   5.2. PROBLEMS WITH WORK SEQUENCE.
   5.3. ANY UNUSAL CONDITIONS NOT SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE ENGINEER PRIOR TO BIDDING.
6. ACCEPTABLE MANUFACTURERS: THE LISTING OF A MANUFACTURER AS "ACCEPTABLE" UNDER ANY DIVISION 26 REQUIREMENTS DOES NOT IMPLY AUTOMATIC APPROVAL. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ANY SUBMITTALS MADE ARE FOR PRODUCTS THAT MEET OR EXCEED THE SPECIFICATIONS INCLUDED HERE.
7. SUBMIT SHOP DRAWINGS TO ENGINEER FOR ALL ELECTRICAL ITEMS. THE SHOP DRAWINGS SHALL BE SUBMITTED COMPLETE FOR ALL ELECTRICAL ITEMS.
8. INCOMPLETE SUBMITTALS WILL BE RETURNED WITHOUT BEING REVIEWED OR THE CONTRACTOR SHALL AGREE TO PAY THE ELECTRICAL ENGINEER DIRECTLY AT AN HOURLY RATE OF $135.00 TO REVIEW SUBSEQUENT SUBMITTALS. SHOP DRAWING RE-SUBMITTALS DUE TO REJECTIONS FOR NOT SUBMITTING THE SPECIFIED ITEMS ARE ALSO SUBJECT TO THE HOURLY REVIEW FEE.
9. DIVISION 26 SUB-CONTRACTOR SHALL REVIEW SHOP DRAWINGS AND VERIFY EQUIPMENT VOLTAGE, PHASE AND AMPS PRIOR TO ROUGH-IN OF ALL EQUIPMENT.
10. ALL EQUIPMENT, DEVICES, ETC. FURNISHED BY ELECTRICAL CONTRACTOR SHALL BE U.L. LISTED (OR EQUIVALENT NATIONAL TESTING AGENCY) FOR IT'S INTENDED PURPOSE. INFORM OWNER THAT ALL OWNER FURNISHED EQUIPMENT, DEVICES, ETC. MUST ALSO HAVE A U.L. LISTING (OR EQUIVALENT LISTING).
11. ALL ELECTRICAL COMPONENTS (CONDUIT, WIRE, FITTINGS, SUPPORTS, CIRCUIT BREAKERS, LAMPS, ETC.) PROVIDED AND INSTALLED IN THIS PROJECT SHALL BE BRAND NEW. RE-USE OF EXISTING COMPONENTS WILL NOT BE APPROVED.
12. UTILITY COORDINATION: CONTRACTOR SHALL SUBMIT A COMPLETE SET OF CONSTRUCTION DOCUMENTS TO UTILITY COMPANY IMMEDIATELY AFTER RECEIVING NOTICE TO PROCEED OR PRIOR TO ANY SITE OR BUILDING ROUGH-IN. COORDINATE EASEMENT LOCATIONS BETWEEN OWNER AND UTILITY COMPANY. VERIFY WITH UTILITY COMPANY: PROPOSED VOLTAGE, PHASE, OLE/PAD-MOUNT TRANSFORMER LOCATIONS, METERING, UTILITY PRIMARY ROUTING AND CONDUIT REQUIREMENTS, ETC.

WIRES, CABLES AND CONNECTORS

1. ALL CONDUCTORS SHALL BE COPPER WITH 600V 75°C WITH THHN/THWN-2 INSULATION FOR USE WITHIN BUILDING CONFINES. WHERE INSTALLED BEYOND THE BUILDING CONFINES, SUCH AS IN UNDERGROUND FEEDER BANKS OR CIRCUITRY TO SITE LUMINARIES IT SHALL BE COPPER WITH 600V, 75°C, XHHW-2 INSULATION.
2. USE SOLID CONDUCTOR, SINGLE CONDUCTOR, NO. 10 AWG MINIMUM FOR GENERAL USE WIRING.
3. USE STRANDED CONDUCTOR, SINGLE CONDUCTOR NO. 8 AWG AND LARGER, FOR MOTORS AND OTHER INSTALLATIONS WHERE VIBRATION IS GENERATED.
4. COLOR-CODING SHALL IDENTIFY THE SAME PHASE THROUGHOUT THE SYSTEM, FROM SERVICE SWITCH OR TRANSFORMER THROUGH ALL BRANCH CIRCUITRY. ALL WIRING SHALL BE COLOR-CODED AS FOLLOWS:

120/208/240 VOLT	480/277 VOLT
PHASE A-BLACK	PHASE A-BROWN
PHASE B-RED	PHASE B-ORANGE
PHASE C-BLUE	PHASE C-YELLOW
NEUTRAL-WHITE	NEUTRAL-WHITE TRACER OR GRAY

5. A STANDARD 500V MEGGER INSULATION TEST SHALL BE MADE AND RECORDED FOR ALL FEEDER CIRCUITS. PROVIDE A COPY OF TEST RESULTS TO ENGINEER FOR REVIEW.
6. PROVIDE LUGS FOR FEEDER SIZES INDICATED ON DRAWINGS OR AS REQUIRED.
7. ALL CIRCUIT WIRING SHALL BE SIZED FOR 3% MAXIMUM VOLTAGE DROP.

ELECTRICAL DEMOLITION AND ALTERATIONS

1. ANY EXISTING CIRCUITS OR EQUIPMENT NOT SHOWN ON DRAWINGS AND WHICH ARE LOGICALLY EXPECTED TO BE CONTINUED IN SERVICE SHALL BE RECONNECTED IN AN APPROVED MANNER.
2. WIRING TO ELECTRICAL EQUIPMENT BEING DISCONNECTED SHALL BE REMOVED BACK TO THEIR OVERCURRENT DEVICE OR BACK TO NEAREST ACTIVE JUNCTION BOX.
3. CONTRACTOR SHALL PROVIDE SUPPORT FOR EXISTING CONDUIT IN REMODELED AREA THAT IS TO REMAIN AND IS NOT PROPERLY SUPPORTED IN ACCORDANCE WITH N.E.C. REQUIREMENTS.
4. EXCEPT FOR CONDUIT, CONDUCTORS AND MISCELLANEOUS HARDWARE, ALL ELECTRICAL EQUIPMENT SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STORED OR DISPOSED OF AS DIRECTED BY OWNER.

CONDUIT & RACEWAYS

1. CONTRACTOR SHALL SELECT A CABLE TYPE THAT MEETS ALL NEC AND AHJ REQUIREMENTS FOR THE FACILITY TYPE AND INSTALLATION ENVIRONMENT.
2. MINIMUM SIZE CONDUIT SHALL BE 1/2". DOES NOT APPLY TO MC CABLE.
3. ALL BURIED CONDUIT, AND SUBSEQUENT WIRING INSTALLATIONS SHALL BE COMPLETED IN A MANNER THAT MEETS THE REQUIREMENTS OF THE AHJ, UTILITY, AND ALL APPLICABLE CODES.
4. CONDUIT SHALL BE MC CABLE, ELECTRICAL METALLIC TUBING, OR RIGID GALVANIZED STEEL CONDUIT. SCHEDULE 40 PVC CONDUIT IS ALLOWED FOR CONDUITS IN/UNDER THE SLAB AND UNDERGROUND.
5. ALL CONDUIT SHALL BE CONCEALED. CONDUIT SHALL BE EMT IN INTERIOR AREAS, AND RIGID GALVANIZED STEEL CONDUIT, OR PVC IN EXTERIOR AREAS.
6. COORDINATE ROUTING (LOCATION) OF CONDUIT WITH HVAC DUCTWORK, PLUMBING PIPING AND SPRINKLER PIPING.
7. SECURE CONDUIT IN PLACE WITH CORROSION-PROOF ALLOY STRAPS AT SPACING AS REQUIRED BY N.E.C. CONDUIT SHALL BE SECURED TO BUILDING STRUCTURE.
8. INSTALL FLEXIBLE STEEL CONDUIT NOT OVER 3' LONG TO MOTORS, TRANSFORMERS AND EQUIPMENT SUBJECT TO VIBRATION.
9. INSTALL LIQUID-TIGHT FLEXIBLE CONDUIT NOT OVER 3' LONG WHERE SUBJECT TO MOISTURE, DIRT OR FUMES.
10. TYPE MC CABLE SHALL BE OF THE INTERLOCKING JACKET TYPE. CABLE SHALL BE SUPPORTED AT NOT MORE THAN SIX-FOOT INTERVALS, AND ALL FITTINGS SHALL BE IDENTIFIED FOR USE WITH SAID CABLE. MC CABLE SHALL NOT BE USED FOR SERVICE ENTRANCE OR IN EXPOSED AREAS. MC CABLE MAY BE USED ABOVE DROP CEILINGS AND IN INTERIOR PARTITIONS.
11. CONTRACTOR SHALL MINIMIZE FLOOR SLAB PENETRATIONS.
12. ALL CONDUIT RUNS SHALL BE DESIGNED TO PRESENT A NEAT AND ORDERLY APPEARANCE,RUNNING LINES PARALLEL WITH BUILDING STRUCTURE OR WALLS.
13. ROOFTOP UNITS AND EXHAUST FANS ARE TO BE WIRED THROUGH THE ROOF CURBS OR UTILIZE FACTORY-FABRICATED ROOF PIPING CURBS. PITCH POCKETS ARE NOT ALLOWED.
14. ROMEX CABLE IS NOT PERMITTED.
15. CONDUIT SHALL BE ROUTED PERPENDICULAR THROUGH RATED WALLS. PROVIDE PROPER SLEEVES AND FIRE SAFING/SEALANTS.
16. PROVIDE UL APPROVED FIRE SEALS FOR ALL FIRE RATED WALL AND FLOOR PENETRATIONS.

CONDUIT FITTINGS

1. COMPRESSION TYPE STEEL OR STEEL SETSCREW TYPE SHALL BE UTILIZED.
2. PROVIDE PROPER EXPANSION FITTINGS WHEN CROSSING BUILDING EXPANSION LINES.

ELECTRICAL IDENTIFICATION

1. PROVIDE CABLE/CONDUCTOR IDENTIFICATION BANDS.
2. PROVIDE ENGRAVED PLASTIC LAMINATE SIGNS, WHITE LETTERING ON A BLACK BACKGROUND, FOR EACH UNIT OF THE FOLLOWING CATEGORIES OF ELECTRICAL WORK: SWITCHBOARDS, MOTOR STARTERS, TRANSFORMERS, PANELBOARDS, DISCONNECTS, AND JUNCTION BOXES. NAME PLATES SHALL IDENTIFY PANEL DESIGNATION (NAME), VOLTAGE, PHASE AND WIRE CONFIGURATION.
3. UNDERGROUND CABLE/CONDUIT IDENTIFICATION PLASTIC LINE MARKERS SHALL BE PROVIDED THE CONTINUOUS TRENCH LENGTH.

GROUNDING

1. ALL GROUNDING MUST MEET NEC AND AHJ REQUIREMENTS.
2. PROVIDE INSULATED GROUND CONDUCTORS IN ALL CONDUITS.
3. PROVIDE GROUNDING BUSHINGS FOR FEEDER CONDUITS.
4. TRANSFORMERS SHALL BE GROUNDED TO BUILDING STEEL WITH EXOTHERMIC CONNECTIONS.
5. SERVICE GROUND RESISTANCE SHALL BE MEASURED WITHOUT DEPENDING ON WATER PIPING SYSTEM & SHALL BE 25Ω OR LESS, IF GREATER THAN 25Ω, DRIVE ADDITIONAL GROUND RODS TO OBTAIN REQUIRED RESISTANCE.
6. GROUND METAL LIGHTING POLES AS REQUIRED BY N.E.C.

ABBREVIATIONS

A	AMPERE
AF	AMPERE FRAME
AFC	AVAILABLE FAULT CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLER UNIT (HVAC)
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AT	AMPERE TRIP
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT OR CONDUCTOR
CB	CIRCUIT BREAKER
CLG	CEILING
CO	CONDUIT ONLY
CPT	CONTROL POWER TRANSFORMER
CU	CONDENSING UNIT (HVAC), COPPER
DS	DISCONNECT (SAFETY) SWITCH
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EL	EMERGENCY LIGHT (UNSWITCHED)
ELE	ELECTRICAL, ELECTRIC
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
ETR	EXISTING TO REMAIN
EWH	ELECTRIC WATER HEATER
EX	EXISTING
FBC	FLORIDA BUILDING CODE
FDS	FUSED DISCONNECT (SAFETY) SWITCH
FLOUR	FLUORESCENT
FMC	FLEXIBLE METAL CONDUIT
FMT	FLEXIBLE METAL TUBING
GND	GROUND (ELECTRICAL)
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GWH	GAS WATER HEATER
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE LIGHT
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM LIGHT
HZ	HERTZ (ELECTRICAL)
ICAN	INCANDESCENT LIGHT
ICCB	INSOLATED CASE CIRCUIT BREAKER
IGND	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
LTG	LIGHT, LIGHTING
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MH	METAL HALIDE LIGHT, MAN HOLE
MLO	MAIN LUGS ONLY
N, NEUT	NEUTRAL (ELECTRICAL)
NEC	NATIONAL ELECTRICAL CODE)
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSN.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT (UNSWITCHED)
P	POLE
PB	PULL BOX
PCB	POWER CIRCUIT BREAKER
PH	PHASE (ELECTRICAL)
PNL	PANEL
PNLB	PANELBOARD
PVC	PLASTIC CONDUIT
PWR	POWER (ELECTRICAL)
RCPT	RECEPTACLE
RMC	RIGID METAL CONDUIT
RNC	RIGID NONMETALLIC CONDUIT
RTU	ROOF TOP UNIT (HVAC)
SCA	SHORT CIRCUIT AMPS
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SH	SHIELDED
SW	SWITCH
SWBD	SWITCHBOARD
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
V, VAC	VOLT, VOLT AC
W	WATT
WP	WEATHERPROOF
XFMR	POWER TRANSFORMER

ELECTRICAL LEGEND

A-1,3,5	UNLESS OTHERWISE NOTED, HOME RUN TO PANEL. WIRING HOME RUN: LETTER INDICATES PANEL; NUMBER IS BRANCH CIRCUIT(S)
	GROUNDING CONDUCTOR.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT 18" AFF UON.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT 42" AFF OR ABOVE COUNTER.
	DUPLEX RECEPTACLE, NEMA 5-20R, SPLIT WIRE, MOUNT 42" AFF UON.
	DUPLEX RECEPTACLE, NEMA 5-20R, FLUSH CEILING MOUNT UON.
	QUAD RECEPTACLE, 2 OF NEMA 5-20R, MOUNT 18" AFF UON.
	QUAD RECEPTACLE, 2 OF NEMA 5-20R, MOUNT 42" AFF OR ABOVE COUNTER.
	SPECIAL PURPOSE RECEPTACLE.
IG	INDICATED ISOLATED GROUND ON ANY RECEPTACLE
WP	WEATHERPROOF DUPLEX RECEPTACLE.
GFI	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT 18" AFF UON. (GROUND FAULT CIRCUIT INTERRUPTED)
GFI	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT 42" AFF OR ABOVE COUNTER. (GROUND FAULT CIRCUIT INTERRUPTED)
	JUNCTION BOX.
	ELECTRICAL PANEL
	COMMUNICATIONS OUTLET BOX FOR OWNER FURNISHED VOICE AND/OR DATA. STUB 1" C. TO CEILING CAVITY AND TERMINATE WITH PLASTIC BUSHINGS. C=MOUNTED 6" ABOVE COUNTER OR BACKSPLASH, W=WALL MOUNTED AT +54" AFF.
TV	CABLE TV OUTLET BOX FOR OWNER FURNISHED CABLE TV SYSTEM. STUB 3/4" C. TO CEILING CAVITY AND TERMINATE WITH PLASTIC BUSHINGS UON.
S	SPEAKER
	3/4" PLYWOOD TELEPHONE BACKBOARD.
	FLOORBOX-3 GANG/3 COMPARTMENT, 1 GANG FOR POWER AND 2 GANGS FOR COMMUNICATIONS UON. FLOORBOXES MAY BE STAMPED STEEL IF NOT IN DIRECT CONTACT WITH THE EARTH. PROVIDE LAYER OF CONCRETE IF REQUIRED. OTHERWISE, IF IN DIRECT CONTACT WITH EARTH, PROVIDE CAST IRON FLOORBOXES.
F	ELECTRICAL FAN
SD	SMOKE DETECTOR (NOT PART OF FIRE ALARM SYSTEM)
	REMOTE SHUNT TRIP DEVICE IN "BREAK GLASS" WEATHERPROOF BOX
X / X	FUSED SAFETY (DISCONNECT) SWITCH TOP NUMBER = FUSE RATING, BOTTOM NUMBER = DISCONNECT RATING USE ALL RK-1 FUSES.
X	SAFETY (DISCONNECT) SWITCH, NON-FUSED NUMBER = DISCONNECT RATING
CB	ENCLOSED CIRCUIT BREAKER.
M	UTILITY METER SOCKET PER REQUIREMENTS.
$	WALL SWITCH, SINGLE POLE, 125/277VAC, 20A, MOUNT 48" AFF UON.
$3	WALL SWITCH, THREE WAY, 125/277VAC, 20A, MOUNT 48" AFF UON.
$D	WALL SWITCH, DIMMER, 125/277VAC, 1500W, MOUNT 48" AFF UON.
$L	WALL SWITCH FOR LOW VOLTAGE SWITCHING SYSTEM, MOUNT 48" AFF UON.
$M	MANUAL MOTOR STARTER, 125/277VAC, 20A, MOUNT 48" AFF UON.
$OC	WALL SWITCH OCCUPANCY SENSOR SWITCH. MOUNT AT 48" AFF UON.
OS	OCCUPANCY SENSOR.
LC	LIGHTING CONTACTOR.
	POST-MOUNTED ELECTRICAL SERVICE INSTALLATION. CONTRACTOR TO MEET ALL UTILITY , NEC, AND AHJ REQUIREMENTS.

Francisco Cabral, State of Florida, Professional Engineer, License No. 87110.

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(321) 246 - 4041 C.A. No. 33227

CEI PROJECT 21.20
DATE 5/7/2021
SCALE AS SHOWN
DESIGNED BY FC
DRAWN BY US
CHECKED BY FC

ELECTRICAL SPECIFICATIONS, LEGENDS AND ABBREVIATIONS

TRAILWINDS VILLAGE MONUMNET SIGNAGE

CITY OF WILDWOOD — FLORIDA

SHEET NUMBER
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File Name & Location: G:\Shared drives\X-ISP-CABRAL\Projects\ACTIVE DESIGN PROJECTS\SITE PROJECTS\KH PROJECTS\20210422 Wildwood Monument Sign\E0.00 ELECTRICAL SPECIFICATIONS, LEGENDS AND ABBREVIATIONS.dwg Layout: E0.01 Printed: Fri, 07 May 2021 - 11:13
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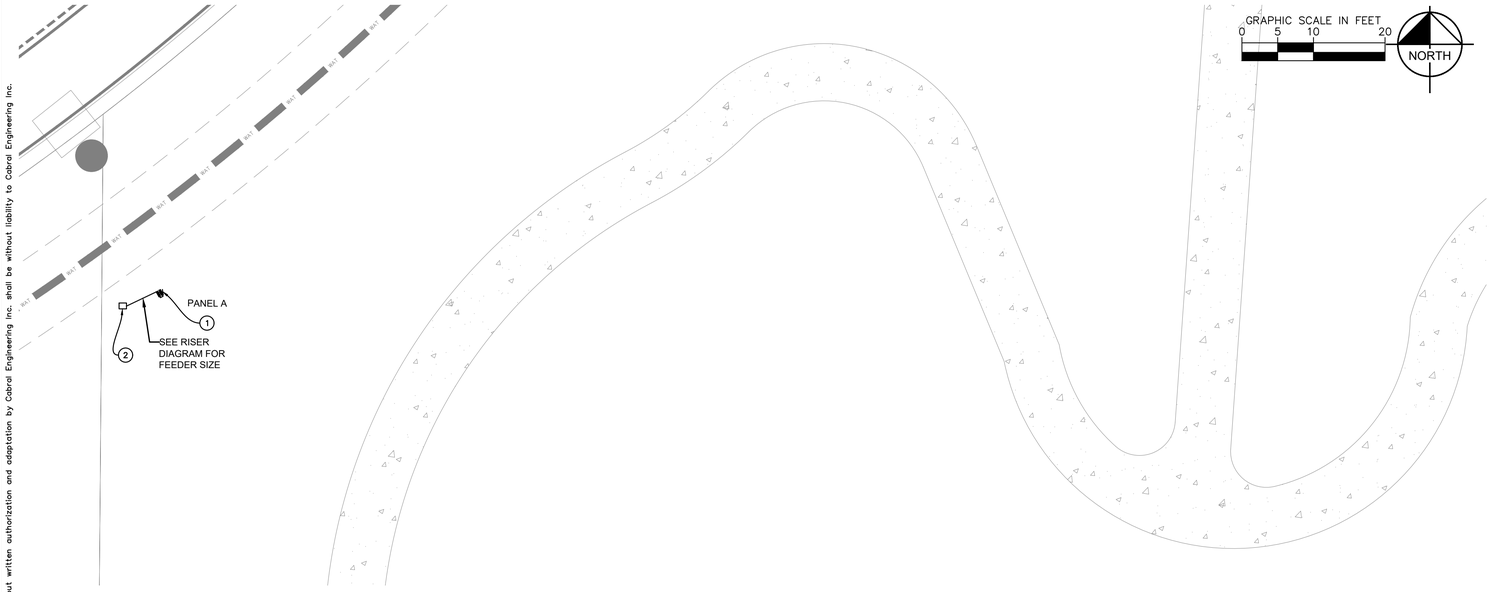
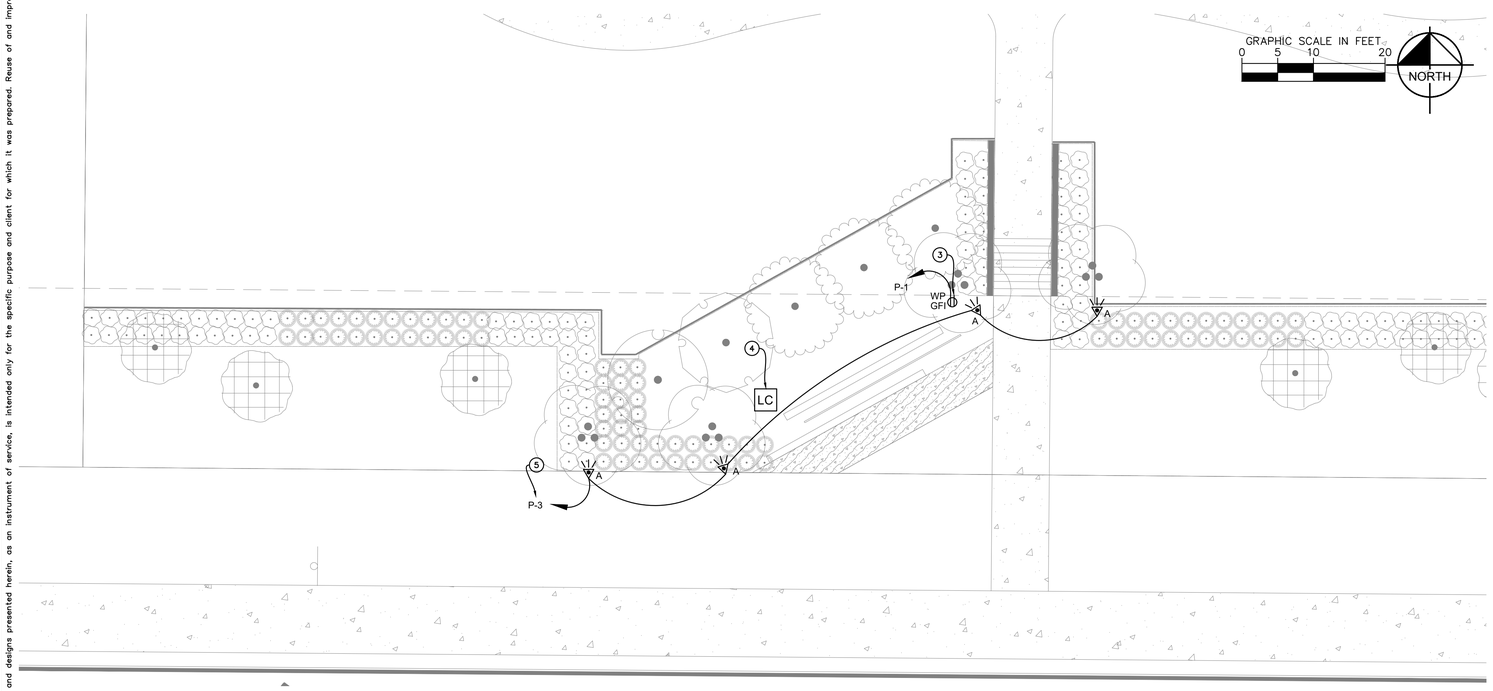


1 ELECTRICAL SERVICE PANEL LOCATION



2 MONUMENT SIGNAGE LOCATION

GENERAL NOTES

1. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY. FIELD VERIFY THE ACTUAL CONDITIONS AND COMPOSITION OF THE EXISTING UTILITIES PRIOR TO COMMENCING WORK.
2. COORDINATE THE FINAL ROUTING OF NEW UNDERGROUND UTILITIES WITH EXISTING UTILITIES AS WELL AS NEW PROPOSED UTILITIES PROVIDED AS PART OF THIS PACKAGE.
3. DO NOT ROUTE NEW UTILITIES DIRECTLY BELOW THE ROOT BALLS OF PROPOSED TREES. COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH PROPOSED LANDSCAPING.
4. CABLE AND CONDUIT LENGTHS MAY NOT BE ACCURATE AS THEY ARE LINEAR REPRESENTATIONS AND DO NOT TAKE INTO ACCOUNT TERRAIN VARIATIONS OR FIELD CONDITIONS. CONTRACTOR SHALL CONDUCT ITS OWN FIELD SURVEY BEFORE PRICING, PROCUREMENT AND INSTALLATION.
5. REFER TO SHEET E8.01 FOR LIGHT FIXTURE CUTSHEETS.
6. CONTRACTOR SHALL COORDINATE ALL SERVICE REQUIREMENTS AND TRANSFORMER LOCATIONS WITH UTILITY COMPANY. AND SHALL PROVIDE A COMPLETE INSTALLATION THAT MEETS THOSE REQUIREMENTS AS WELL AS ALL APPLICABLE CODES MANDATED BY THE AHJ.

KEYED NOTES (X)

1. POST-MOUNTED ELECTRICAL SERVICE. CONTRACTOR SHALL MEET ALL NEC, AHJ, AND UTILITY REQUIREMENTS. SEE E801 FOR FEEDER SIZING AND PANEL RATINGS.
2. EXISTING SECONDARY CONNECTION BOX. CONTACT SECO POWER AT 352-793-3801 FOR CONNECTION REQUIREMENTS.
3. INSTALL IN OUTDOOR POWER PEDESTAL PER SPECIFICATION SHOWN ON #3/E801.
4. POST-MOUNTED OR WALL-MOUNTED LIGHTING CONTROLLER. COORDINATE EXACT LOCATION AND INSTALLATION WITH OWNER AND/OR LANDSCAPE ARCHITECT. SEE #5/E8.01
5. WIRE LIGHTING CIRCUIT VIA LIGHTING CONTROLLER.

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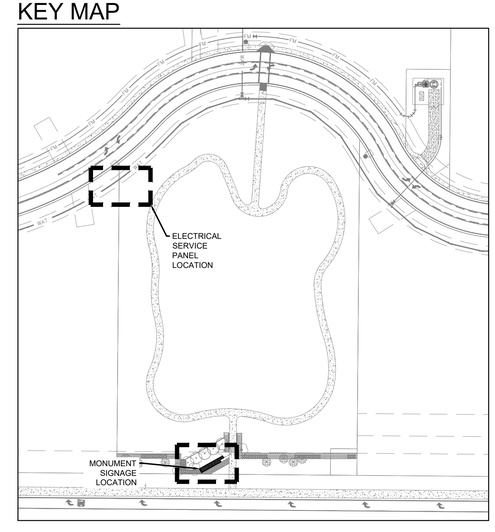
KEY MAP



LIGHTING FIXTURE SCHEDULE

TYPE	QTY	MANUFACTURER	MODEL SERIES / STYLE	LAMP TYPE	VOLTS	FIXTURE INPUT WATTS	REMARKS/CONFIGURATION
A	4	HYDREL	ASPEN LED	LED	120	11	ASPEN A 1-P1-80CRI-40K-120-35DEG-FLC-KM-PM60A-C1-BL

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SITE POWER PLAN

TRAILWINDS VILLAGE MONUMNET SIGNAGE
CITY OF WILDWOOD FLORIDA

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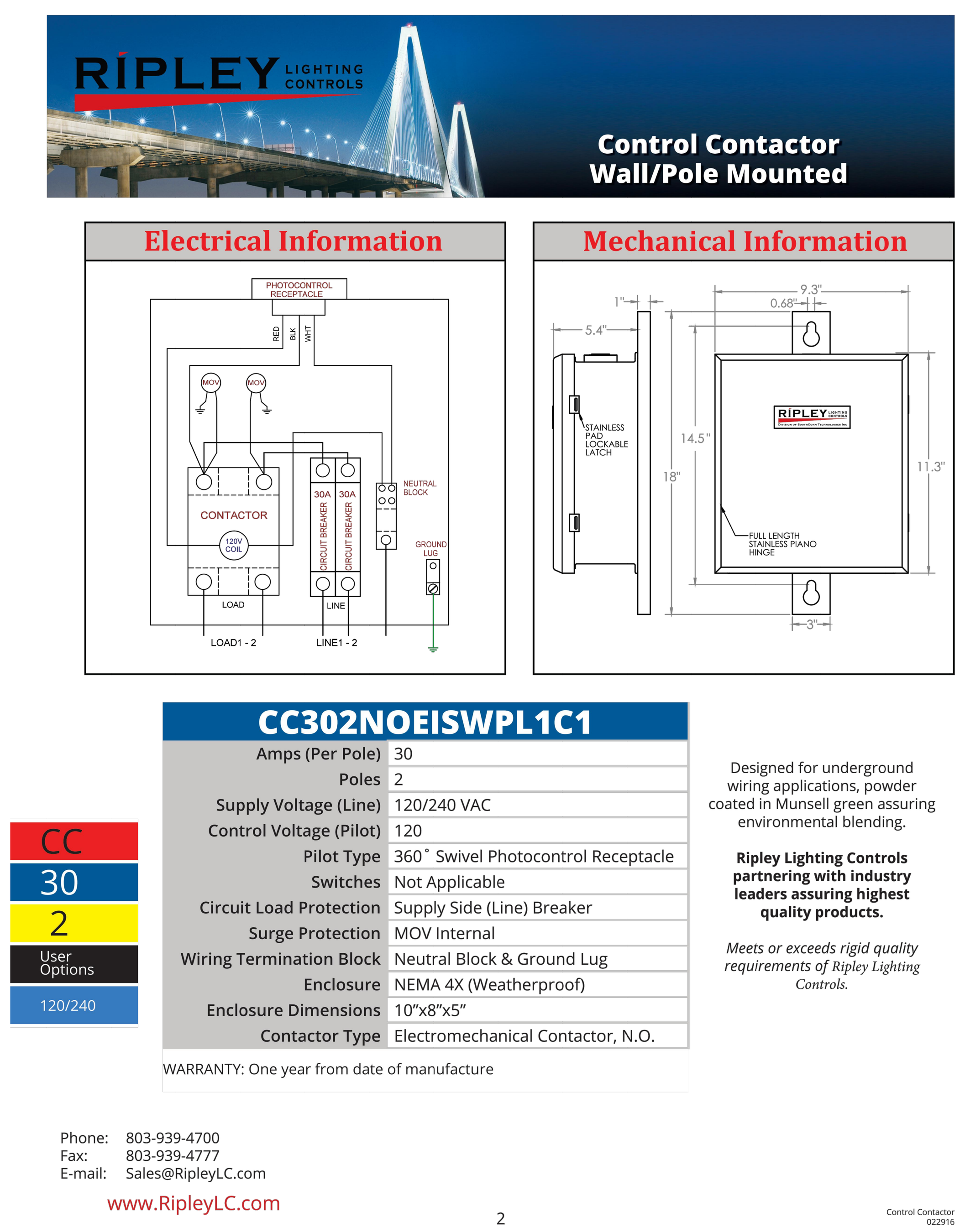
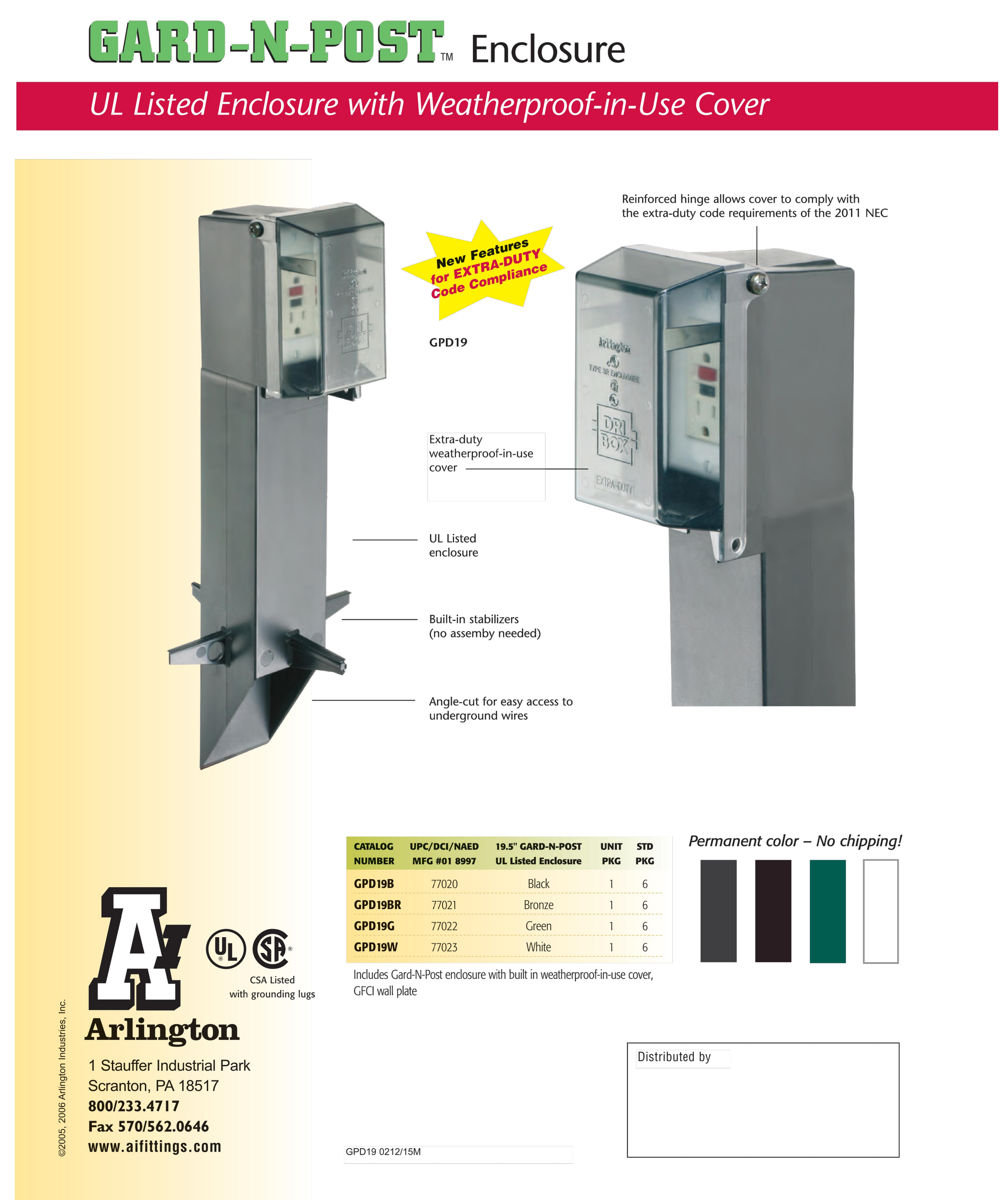
4
E8.01
FIXTURE A
N.T.S.



5
E8.01
LANDSCAPE LIGHTING CONTROLLER - PROCURE WITH PHOTOCELL
N.T.S.



3
E8.01
OUTDOOR POWER PEDESTAL ENCLOSURE
N.T.S.

UPDATED: 5/7/2021 10:04 am ISSUED FOR: CONSTRUCTION	PANEL A																		
LOCATION: SITE VOLTAGE: 120/240V TRIM: SURFACE								MAIN: 30A MLO SYSTEM: 1Ø, 3W BUS RATING 60A						CONN. LOAD: .4 KVA FEED: BOTTOM GROUND BUS: YES COPPER					
CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	GND	NEUT	PHASE	COND	LOAD SERVED	CKT
1	POWER PEDESTAL	1/2"	#12	#12	#12	20/1	R	180 / 180			R	20/1	#12	#12	#12	1/2"	SVCE REC	2
3	MONUMENT LIGHTING	1/2"	#12	#12	#12	20/1	L		44 / –		–	–	–	–	–	–	"	4
5	"	–	–	–	–	–	–	– / –			–	–	–	–	–	–	"	6
	INTERRUPT RATING: 10,000 A							360	44		FROM: UTILITY TRANSFORMER							

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	44	1.25	55
RECEPTS TO 10 KVA	360	1.0	360
RECEPTS REMAINING	0	0.5	0
SPACE HEATING	0	0.0	0
AIR CONDITIONING	0	1.0	0

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	0	1.0	0
LARGEST MOTOR	0	0.25	0
WATER HEATING	0	1.0	0
KITCHEN EQUIP.	0	1.0	0

REMAINING CONTINUOUS LOADS	0	1.25	0	
REMAINING NON-CONTINUOUS LOADS	0	1.0	0	
DEMAND LOADS	0	1.0	0	
TOTAL CONNECTED LOAD	.4	KVA	1.7	AMPS
MIN. FEEDER/PANEL CAP.	.4	KVA	1.7	AMPS
OVERALL DEMAND FACTOR	1.03			

VOLTAGE DROP CALCULATION

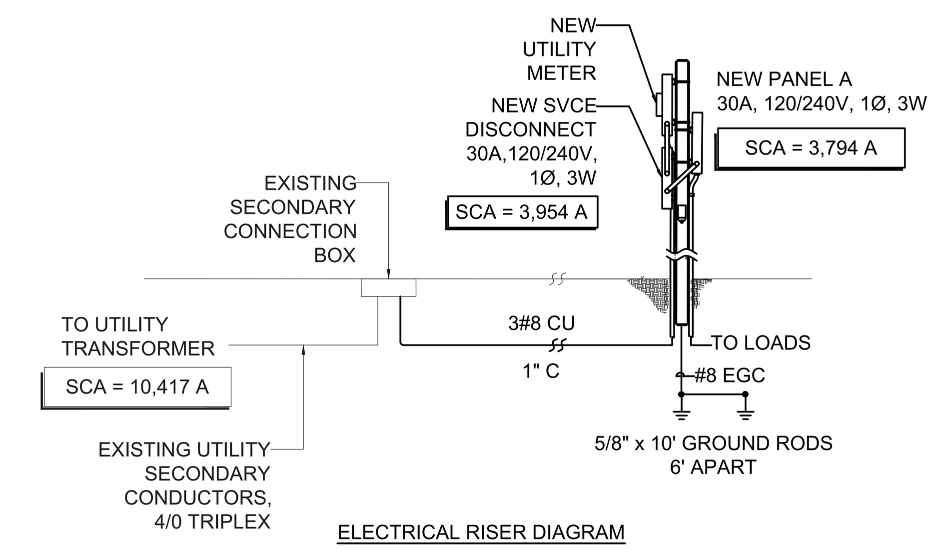
FROM	TO	CONDUCTOR SIZE	LENGTH (FT)	LOAD (AMPS)	VOLTAGE (V)	PHASE	% DROP
TRANSFORMER	SECONDARY BOX	#4/0	100	30	240	1	0.18%
SECONDARY BOX	SVCE DISCONNECT	#8 CU	20	30	240	1	1.81%
SVCE DISCONNECT	PANEL A	#8 CU	2	30	240	1	0.04%

VOLTAGE DROP NOTES

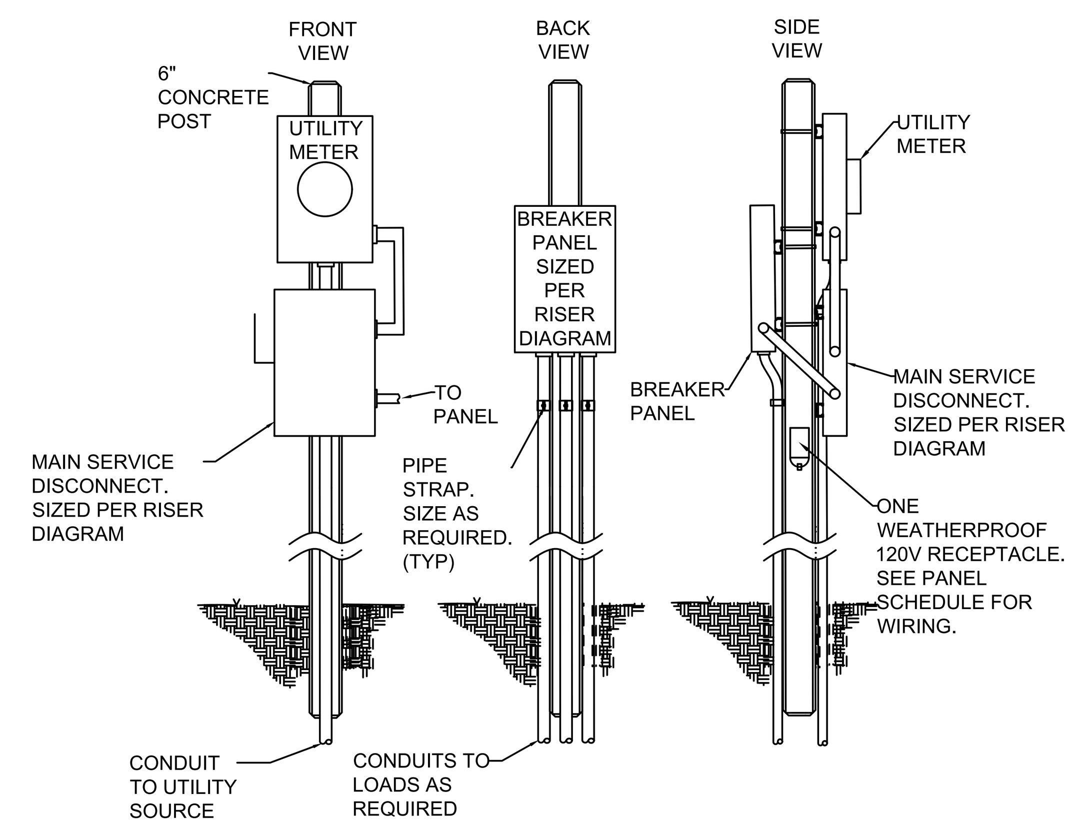
1. CONTRACTOR SHALL NOT USE DISTANCES USED FOR CALCULATING VOLTAGE DROP TO ESTIMATE PRICING (TAKEOFFS). CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL DISTANCES AND VOLTAGE DROP VERIFICATION IF THE ACTUAL DISTANCE IS GREATER THAN SHOWN.
2. OWNER/ENGINEER IS NOT RESPONSIBLE IF CONTRACTOR DOES NOT PROVIDE SUFFICIENT CONDUIT AND CONDUCTOR LENGTHS.

SHORT CIRCUIT NOTES NOTES

1. CONTRACTOR SHALL REPORT TO ENGINEER IF FINAL LENGTHS ARE SIGNIFICANTLY SHORTER THAN THE FOOTAGE SHOWN ON DRAWINGS AS THIS CHANGE MAY AFFECT THE SHORT CIRCUIT RATING OF DOWNSTREAM EQUIPMENT.
2. SCA REPRESENTS THE MINIMUM REQUIRED SHORT-CIRCUIT RATING FOR EQUIPMENT.



ELECTRICAL RISER DIAGRAM



DETAIL NOTES:

1. CONTRACTOR SHALL VERIFY C.T. REQUIREMENTS BY UTILITY COMPANY AND MEET ALL APPLICABLE N.E.C. SERVICE-ENTRANCE REQUIREMENTS.
2. METER BASE AND DISCONNECT SHALL BE FROM UTILITY-APPROVED LIST.

2
E8.01
ELECTRICAL SERVICE PANEL INSTALLATION DETAIL
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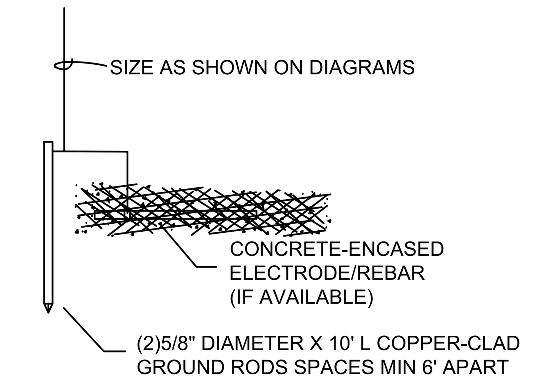

1
E8.01
GROUNDING DETAIL
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ELECTRICAL SCHEDULES, DIAGRAMS AND DETAILS

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