

# **Appendix E**

## **Development Plan**

GENERAL NOTES

LAND USE DEVELOPMENT DATA

PARCEL ID NUMBER: 06655-002-017  
PRESENT ZONING: COMMERCIAL (OF)  
LAND USE: OFFICE (O)  
PROJECT DESCRIPTION: 30 BED ADDITION TO AN EXISTING SKILLED NURSING FACILITY.  
EXISTING BEDS: 62  
PROPOSED BEDS: 30

WATER  
POTABLE WATER WILL BE PROVIDED BY GAINESVILLE REGIONAL UTILITIES.

SEWER  
WASTEWATER WILL BE PROVIDED BY GAINESVILLE REGIONAL UTILITIES.

REFUSE COLLECTION  
EXISTING ON-SITE DUMPSTERS.

FEMA DESIGNATION  
THE REAL PROPERTY SHOWN HEREON LIES WITHIN ZONES "X" (SHADED), "X" (UNSHADED) AND "AE" AS DESIGNATED ON THE FLOOD INSURANCE RATE MAP NUMBERS 12001C02930 & 12001C02940; COMMUNITY NUMBER: 125107; PANELS: 02030 & 02040; EFFECTIVE DATE: 06/18/04. SAID MAP DESCRIBES ZONE "X" (SHADED) AS BEING "AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD." ZONE "X" (UNSHADED) AS BEING "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN," AND ZONE "AE" AS BEING "SPECIAL FLOOD HAZARD AREAS (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD, BASE FLOOD ELEVATIONS DETERMINED."

ROADWAYS, DRAINAGE, AND COMMON AREAS  
ALL ROADWAYS, DRAINAGE AND COMMON AREAS SHALL BE PRIVATELY OWNED AND MAINTAINED.

EASEMENTS  
ALL KNOWN EASEMENTS ARE DESIGNATED ON THE PLANS.

TREE LOCATION  
TREE LOCATIONS ARE NOTED ON THE PLANS.

LOCAL BENCHMARK  
BEARINGS AS SHOWN HEREON WERE PROJECTED FROM A BEARING OF N 00°04'44" W THE EAST BOUNDARY LINE OF THE PROPERTY SHOWN HEREON.

VERTICAL DATUM  
ELEVATIONS SHOWN HEREON WERE BASED ON AN ELEVATION OF 124.54 FEET (NAVD 1988 DATUM) ON FLORIDA DEPARTMENT OF TRANSPORTATION BENCHMARK STATION 175.73 B15. LOCATION AND ELEVATION ARE PER NATIONAL GEODETIC SURVEY DATA SHEET FOR PID AR0381.

LOCAL BENCHMARK  
BEARINGS AS SHOWN HEREON WERE PROJECTED FROM A BEARING OF N 00°04'44" W THE EAST BOUNDARY LINE OF THE PROPERTY SHOWN HEREON.

SIGNAGE  
SIGNAGE AND MARKINGS, WITH THE EXCEPTION OF SIGNS DIRECTING AND GUIDING TRAFFIC AND PARKING WILL BE PERMITTED SEPARATELY FROM THE DEVELOPMENT PLAN.

ADDITIONAL NOTES

1. THE SITE IS NOT IN THE HISTORICAL PRESERVATION DISTRICT.
2. THE SITE IS NOT EFFECTED BY WETLAND REGULATIONS.
3. THE SITE IS NOT LOCATED IN A NATURAL PARK OR GREENWAY DISTRICT.
4. THE SITE IS LOCATED IN A GATEWAY DISTRICT.
5. THE SITE IS NOT LOCATED WITHIN THE WETLANDS PROTECTION DISTRICT.
6. THE SITE IS LOCATED WITHIN THE CENTRAL CORRIDORS OVERLAY DISTRICT. ANY EXISTING NON-CONFORMING USES OF THE SITE MAY CONTINUE AS PROVIDED IN THE CITY OF GAINESVILLE LDC SECTION 30-23 AND SECTION 30-34E. ALL PROPOSED DEVELOPMENT COMPLIES WITH THE CENTRAL CORRIDORS OVERLAY DISTRICT STANDARDS.
7. THE DEVELOPMENT SHALL COMPLY WITH THE FLORIDA FIRE PREVENTION CODE, GAINESVILLE FIRE PROTECTION CODE SECTION 10-5(c) & (b).
8. FIRE HYDRANTS AND STABILIZED SURFACES SHALL BE IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES ON SITE. GAINESVILLE FIRE PREVENTION & PROTECTION CODE SECTION 10-9 (NFPA 1-18.4.3).
9. THIS DEVELOPMENT IS LOCATED IN ZONE "B" OF THE TRANSPORTATION MOBILITY PROGRAM AREA AND MUST MEET ALL RELEVANT TRANSPORTATION MOBILITY ELEMENT POLICY 10.1.4 AND 10.1.8 CRITERIA.
10. IN-BUILDING PUBLIC SAFETY RADIO ENHANCEMENT SYSTEMS SHALL BE PROVIDED IN ALL BUILDINGS WHERE MINIMUM RADIO SIGNAL STRENGTH FOR FIRE DEPARTMENT COMMUNICATIONS IS NOT ACHIEVED AT A LEVEL DETERMINED BY THE AHA. IT IS HIGHLY RECOMMENDED THAT DEVELOPERS EVALUATE AND ADDRESS THE POTENTIAL NEED FOR LRP RULES IN THE EARLY STAGES OF PROJECT PLANNING. FOR ADDITIONAL SPECIFIC REQUIREMENTS PERTAINING TO SIGNAL STRENGTH, COVERAGE, MAINTENANCE AND TESTING REFER TO NFPA 72-14.4.12 AND 24.5.2. GAINESVILLE FIRE PREVENTION & PROTECTION CODE SECTION 10-9 (NFPA 1-11.10).
11. THE OWNER OR THE OWNER'S AUTHORIZED AGENT SHALL DEVELOP A FIRE SAFETY PROGRAM TO ADDRESS ALL ESSENTIAL FIRE AND LIFE SAFETY REQUIREMENTS FOR THE DURATION OF DEMOLITION, ALTERATION AND CONSTRUCTION. AS SPECIFIED IN THE FLORIDA FIRE PREVENTION CODE, INCLUDING NFPA 241, THE FIRE SAFETY PROGRAM SHALL INCLUDE AN EMERGENCY RESPONSE PLAN, AS WELL AS IDENTIFYING FIRE PREVENTION PRECAUTIONS, SITE AND BUILDING EMERGENCY ACCESS ROUTES, TEMPORARY AND PERMANENT WATER SUPPLIES, BUILDING EGRESS ROUTES, GOOD HOUSEKEEPING PRACTICES, AND FIRE PROTECTION SYSTEM INSTALLATION AND MAINTENANCE. GAINESVILLE FIRE PREVENTION & PROTECTION CODE SECTION 10-9 (NFPA 1-16).
12. THE DEVELOPMENT IS LOCATED WITHIN ZONE B OF THE TRANSPORTATION MOBILITY PROGRAM AREA AND WILL SATISFY THE TWO TRANSPORTATION ELEMENT POLICY ZONE B 10.1.6 CRITERIA BY PAYMENT TO THE PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION.
13. THE DEVELOPMENT WILL COMPLY WITH THE CITY'S GENERAL PERFORMANCE STANDARDS IN SECTION 30-34E.

AGENCY CONTACT LISTING

ELECTRIC  
GAINESVILLE REGIONAL UTILITY  
PO BOX 147117 STATION A105  
GAINESVILLE, FL 32614-7118  
YUSEF YARIV  
(352) 393-1542

SEWER  
GAINESVILLE REGIONAL UTILITY  
PO BOX 147117 STATION A105  
GAINESVILLE, FL 32614-7118  
MICHAEL CHAPPELL  
(352) 393-1623

CABLE  
COX CABLE - ALACHUA  
3405 MCCLURE DR  
PENSACOLA, FL 32514  
LARRY TAYLOR  
(850) 857-4559

STORMWATER  
ST. JOHN'S RIVER WATER  
MANAGEMENT DISTRICT  
4040 RBD STREET  
PALATKA, FL 32177  
(386) 329-4500

GAS  
GAINESVILLE REGIONAL UTILITY  
PO BOX 147117 STATION A105  
GAINESVILLE, FL 32614-7118  
PHILIP LANCASTER  
(352) 393-8078

TELEPHONE  
AT&T DISTRIBUTION  
1120 S ROGERS CR  
BOCA RATON, FL 33487  
DINO FARRUGIO  
(561) 967-0240

CITY OF GAINESVILLE  
PUBLIC WORKS DEPARTMENT  
403 NW 39TH AVE  
GAINESVILLE, FL 32609  
JAMES ROBERTS  
(352) 393-8153

PROJECT OWNER AND CONSULTANTS

OWNER/DEVELOPER:  
FLORIDA CONVALESCENT CENTERS, INC.  
2013 MAIN STREET, SUITE 300  
SARASOTA, FL 34237  
(941) 952-8411

SURVEYOR:  
EDA ENGINEERS-SURVEYORS-PLANNERS, INC.  
2404 NW 23RD STREET  
GAINESVILLE, FLORIDA 32608  
(352) 373-35401

CIVIL ENGINEERING CONSULTANT:  
KIMLEY-HORN AND ASSOCIATES, INC.  
1823 SE FORT KING STREET, SUITE 200  
OCALA, FLORIDA 34471  
(352) 438-3000

# PALM GARDEN OF GAINESVILLE

## SITE PLAN FOR FLORIDA CONVALESCENT CENTERS, INC.

### CITY OF GAINESVILLE, FLORIDA

#### SECTION 04, TOWNSHIP 10 SOUTH, RANGE 19 EAST

APRIL 2016

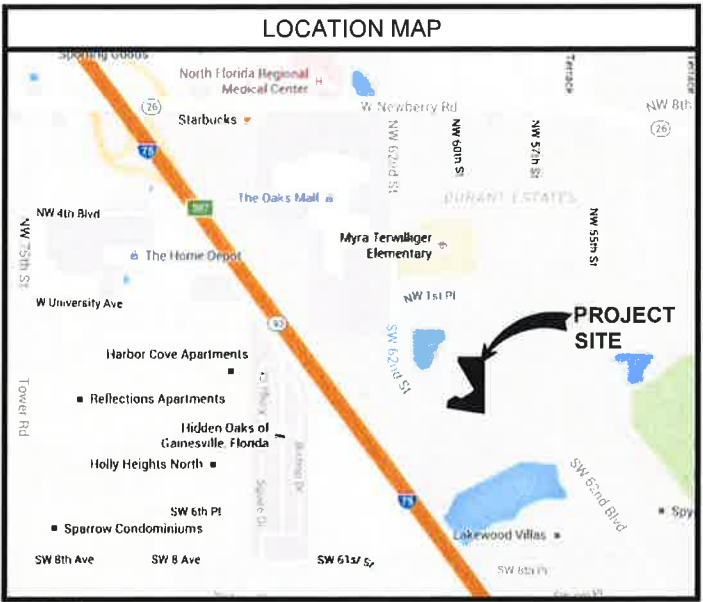


Table 1: Buildout Trip Generation

Land Use	Intensity	Daily Trips	AM Peak Hour of Adjacent Street			PM Peak Hour of Adjacent Street			
			Total	In	Out	Total	In	Out	
Existing Development									
Assisted Living Facility	100 Beds 2,000,000	305	9	6	3	14	6	8	
EXISTING NET NEW EXTERNAL TRIPS →			305	9	6	3	14	6	8
Proposed Development									
Assisted Living Facility	80 Beds 1,600,000	245	13	8	5	20	9	11	
PROPOSED NET NEW EXTERNAL TRIPS →			245	13	8	5	20	9	11
NET INCREASE IN EXTERNAL TRIPS (PROPOSED MINUS EXISTING)			80	4	2	2	6	3	3
NET INCREASE IN EXTERNAL TRIPS (PROPOSED MINUS EXISTING) AT 25% REDUCTION PER TMPA 10.2.5			60						

Notes:  
1. This table was developed using the following data from ITE: Trip Generation, 8th Edition.  
2. The project site is within 1/4 mile of the State Road, so no parking is required. The 0.25% probability of rain will not be used for the site. The site is not a parking lot.  
3. The site is not a parking lot.  
4. The site is not a parking lot.  
5. The site is not a parking lot.  
6. The site is not a parking lot.  
7. The site is not a parking lot.  
8. The site is not a parking lot.  
9. The site is not a parking lot.  
10. The site is not a parking lot.

STORMWATER DATA

TOTAL IMPERVIOUS AREA	5.21 AC
TOTAL SEMI-IMPERVIOUS AREA	0.00 AC
DRA-01	
LOWEST DISCHARGE ELEVATION	82.0 AC
RETENTION VOLUME AT LOWEST DISCHARGE ELEVATION	2.13 AC-FT
RETENTION AREA AT LOWEST DISCHARGE ELEVATION	0.52 AC

PARKING DATA

HOSPITALS, CONVALESCENT AND NURSING HOMES AND PERSONAL CARE FACILITIES	REQUIRED	EXISTING
VEHICLE	1 PER 3 BEDS, OR 92/3 = 31 SPACES	120 SPACES / 5 ACCESSIBLE
BICYCLE	5% OF REQUIRED VEHICLE PARKING OR 31 x 5% = 2 SPACES	6 SPACES
MOTORCYCLE	1 SPACE PER 40 VEHICLES OR 1 SPACE	2 SPACES

SITE DATA

	ALLOWED	PROVIDED
MINIMUM YARD SETBACK		
FRONT	25 FT	257± FT
SIDE	25 FT	36± FT
REAR	25 FT	33± FT
MAXIMUM BUILDING HEIGHT	NONE	28± FT
NUMBER OF BUILDING STORIES	N/A	1
REQUIRED VEHICULAR BUFFER	SEE ATTACHED LANDSCAPE PLANS	

LOT COVERAGE DATA

	EXISTING	PROPOSED
IMPERVIOUS BUILDING AREA	46,268 SF	63,549 SF
IMPERVIOUS PAVEMENT AREA	137,650 SF	163,350 SF
PERVIOUS OPEN SPACE	121,876 SF	72,892 SF
TOTAL PROJECT AREA	7.02 AC (100%)	7.02 AC (100%)



DRAWING INDEX

- C001 - COVER SHEET
- C002 - GENERAL NOTES
- C003 - EXISTING CONDITIONS DRAINAGE MAP
- C004 - PROPOSED CONDITIONS DRAINAGE MAP
- C005 - SITE PLAN
- C006 - SITE PLAN
- C007 - PAVING GRADING AND DRAINAGE PLAN
- C008 - PAVING GRADING AND DRAINAGE PLAN
- C009 - UTILITY PLAN
- C010 - DEMOLITION PLAN
- C011 - CIVIL DETAILS
- C012 - EROSION CONTROL PLAN
- C013 - EROSION CONTROL NOTES
- C014 - EROSION CONTROL DETAILS

- TM-100 - OVERALL TREE MITIGATION PLAN
- TM-101 - TREE MITIGATION PLAN
- TM-150 - TREE MITIGATION NOTES AND DETAILS

- LS-200 - OVERALL LANDSCAPE PLAN
- LS-201 - LANDSCAPE PLAN
- LS-250 - LANDSCAPE DETAILS
- LS-251 - LANDSCAPE NOTES

**Kimley»Horn**

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1823 SE FORT KING STREET, SUITE 200, OCALA, FL 34471  
PHONE: 352-438-3000  
WWW.KIMLEY-HORN.COM CA 0000695

LICENSED PROFESSIONAL  
RICHARD V. BUSCH, PE  
FLORIDA LICENSE NUMBER  
58568

## COVER SHEET

PALM GARDEN OF GAINESVILLE  
PREPARED FOR  
FLORIDA CONVALESCENT  
CENTERS, INC.  
CITY OF GAINESVILLE, FLORIDA

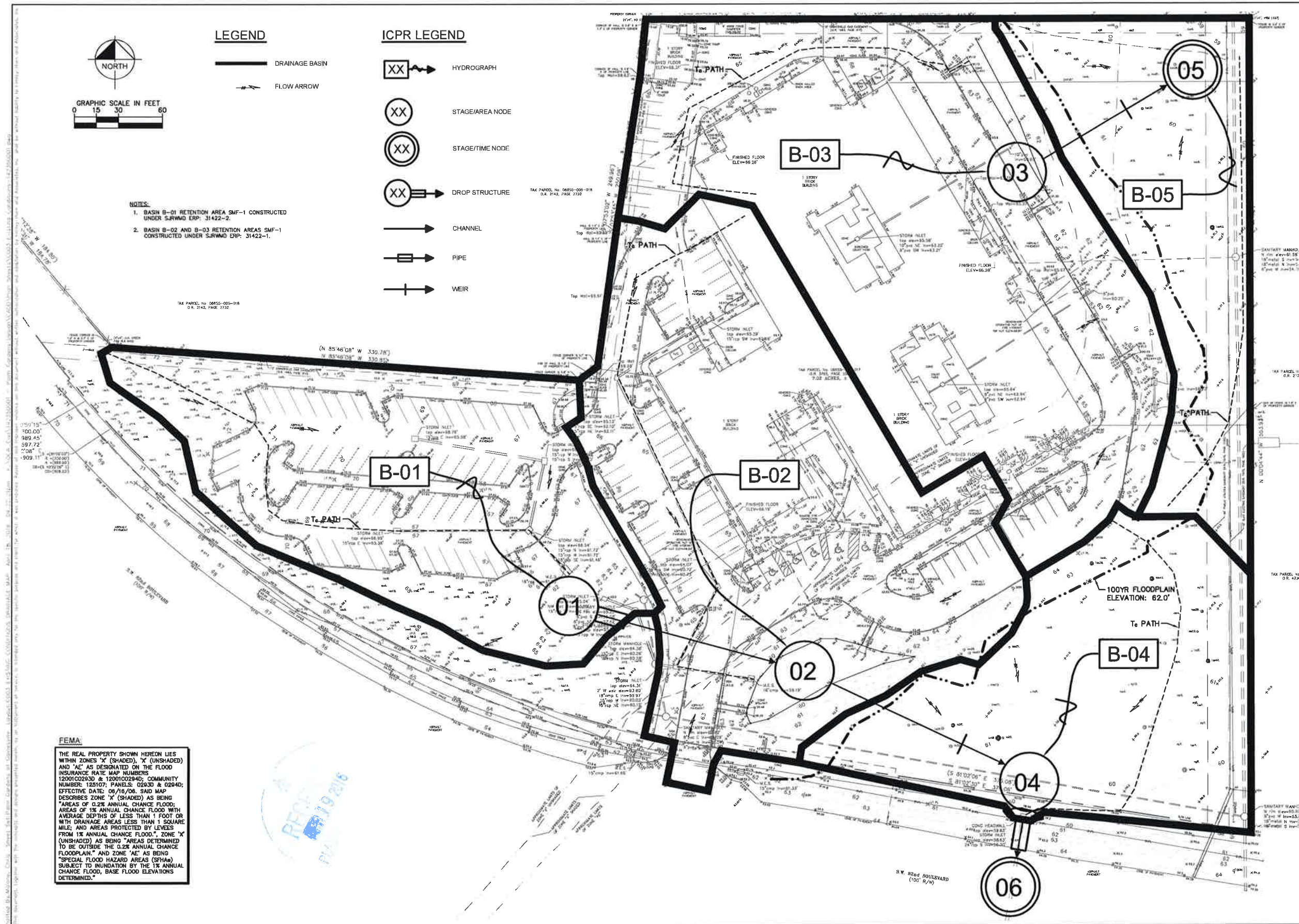
SHEET NUMBER  
C001

DB-16-37 SPA  
Palm Garden of Gainesville  
227 SW 62nd Blvd









**FEMA**  
THE REAL PROPERTY SHOWN HEREON LIES WITHIN ZONES "X" (SHADED), "X" (UNSHADED) AND "AE" AS DESIGNATED ON THE FLOOD INSURANCE RATE MAP NUMBERS 12001C02830 & 12001C02840; COMMUNITY NUMBER: 125107; PANELS: 02830 & 02840; EFFECTIVE DATE: 06/16/08. SAID MAP DESCRIBES ZONE "X" (SHADED) AS BEING "AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD." ZONE "X" (UNSHADED) AS BEING "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN." AND ZONE "AE" AS BEING "SPECIAL FLOOD HAZARD AREAS (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD, BASE FLOOD ELEVATIONS DETERMINED."

**LEGEND**

- DRAINAGE BASIN
- FLOW ARROW

**ICPR LEGEND**

- XX → HYDROGRAPH
- XX STAGE/AREA NODE
- XX STAGE/TIME NODE
- XX → DROP STRUCTURE
- CHANNEL
- PIPE
- WEIR

- NOTES:**
1. BASIN B-01 RETENTION AREA SMF-1 CONSTRUCTED UNDER SJRWMD ERP: 31422-2.
  2. BASIN B-02 AND B-03 RETENTION AREAS SMF-1 CONSTRUCTED UNDER SJRWMD ERP: 31422-1.

TAX PARCEL No. 0655-005-018  
O.R. 2142, PAGE 7732

TAX PARCEL No. 0655-005-018  
O.R. 2142, PAGE 7732

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O.R. 2142, PAGE 7732

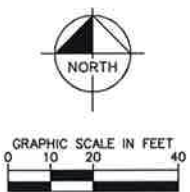
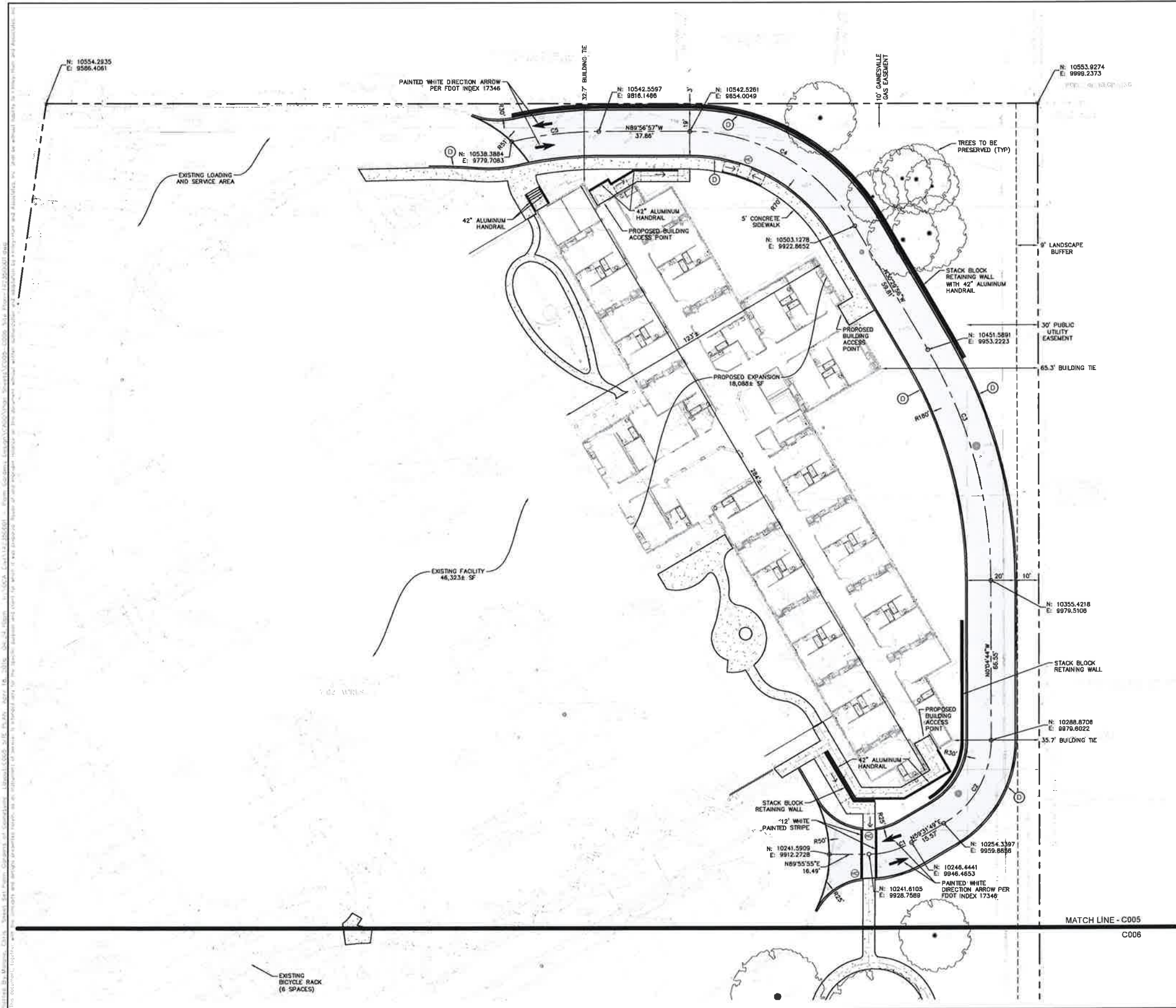
TAX PARCEL No. 0655-005-018  
O.R. 2142, PAGE 7732

<b>Kimley»Horn</b> © 2016 KIMLEY-HORN AND ASSOCIATES, INC. 1823 SE FORT KING STREET, SUITE 200, OCALA, FL 34471 PHONE: 352-438-3000 WWW.KIMLEY-HORN.COM CA 0000699	
LICENSING PROFESSIONAL RICHARD V. BUSCH, PE FLORIDA LICENSE NUMBER 58568	
KHA PROJECT 142350001	DATE APRIL 2016
SCALE AS SHOWN	DESIGNED BY KHA
DRAWN BY CPM	CHECKED BY RVB
EXISTING CONDITIONS DRAINAGE MAP	
PALM GARDEN OF GAINESVILLE PREPARED FOR FLORIDA CONVALESCENT CENTERS, INC. CITY OF GAINESVILLE, FLORIDA	
SHEET NUMBER C003	
PERMIT SET - NOT FOR CONSTRUCTION 03-01-16 CPM	









**RAMP NOTE**  
INSTALL DROP CURB AT ALL SIDEWALK CROSSINGS NOTED ON THESE PLANS WITH (D) DESIGNATION.  
REFER TO F.D.O.T. INDEX 304 FOR CURB RAMP CONSTRUCTION.

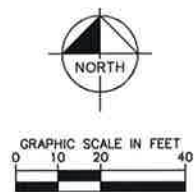
**HANDRAIL NOTE**  
REFER TO ARCHITECTURAL PLANS FOR ALUMINUM HANDRAIL DETAILS.

**PAVEMENT LEGEND**  
[Pattern] - ASPHALT PAVEMENT (SEE SHEET C011)  
[Pattern] - CONCRETE SIDEWALK (SEE SHEET C011)

**CURB LEGEND**  
(D) - 6" TYPE 'D' CURB (SEE SHEET C011)  
(HC) - ADA ACCESSIBLE RAMP



<b>PALM GARDEN OF GAINESVILLE</b> PREPARED FOR <b>FLORIDA CONVALESCENT CENTERS, INC.</b> CITY OF GAINESVILLE FLORIDA	<b>SITE PLAN</b>		LICENSED PROFESSIONAL RICHARD V. BUSCH, PE FLORIDA LICENSE NUMBER 58568 DATE: _____	<b>Kimley»Horn</b> © 2016 KIMLEY-HORN AND ASSOCIATES, INC. 1823 SE FORT KING STREET, SUITE 200, OCALA, FL 34471 PHONE: 352-438-3000 WWW.KIMLEY-HORN.COM CA 0000696
	KHA PROJECT 142350001	DATE APRIL 2016	SCALE AS SHOWN	
	DESIGNED BY KHA	DRAWN BY CPM	CHECKED BY RVB	
SHEET NUMBER <b>C005</b>		PERMIT SET - NOT FOR CONSTRUCTION 03-01-15 CPM		



(D) - 8" TYPE 'D' CURB (SEE SHEET C011)  
(HC) - ADA ACCESSIBLE RAMP

15
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CALL 2 WORKING DAYS  
BEFORE YOU DIG

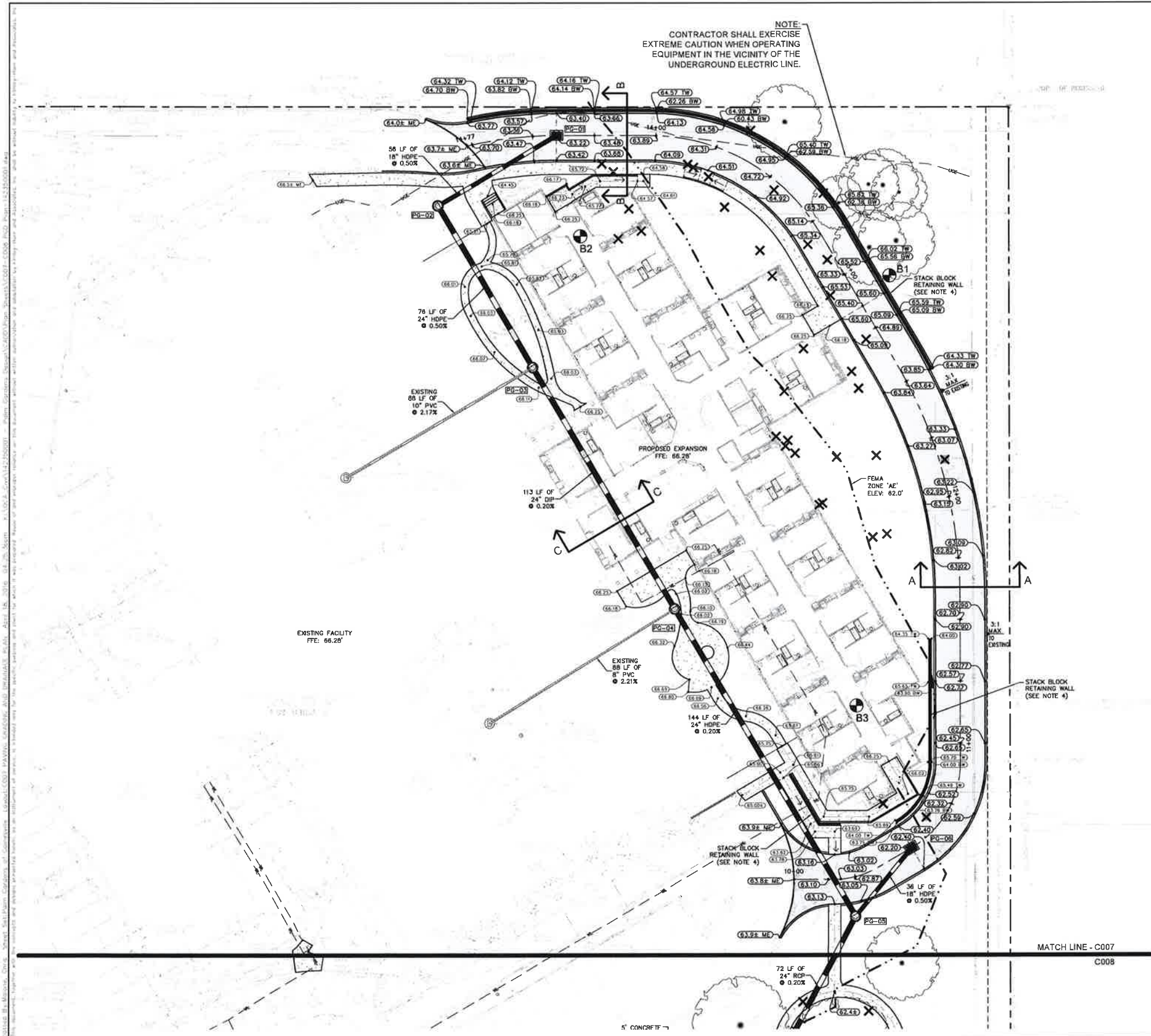
IT'S THE LAW!  
DIAL 811

**811**

Know what's below.  
Call before you dig.

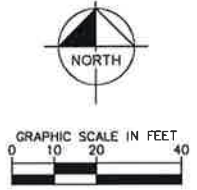
SUNSHINE STATE ONE CALL OF FLORIDA, INC.



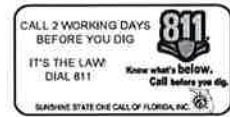


NOTE:  
CONTRACTOR SHALL EXERCISE  
EXTREME CAUTION WHEN OPERATING  
EQUIPMENT IN THE VICINITY OF THE  
UNDERGROUND ELECTRIC LINE.

- NOTES:
1. ALL GRADES ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
  2. ALL SIDEWALK CONSTRUCTION SHALL HAVE A MAXIMUM CROSS SLOPE OF 1.75%.
  3. STORM PIPE MATERIALS SHALL BE AS NOTED UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER. PVC STORM DRAINS SHALL BE SDR-35.
  4. STACK BLOCK RETAINING WALLS SHALL BE KEYSTONE STACKED BLOCK STRUCTURAL RETAINING WALL AS MANUFACTURED BY CONTECH, INC. OR APPROVED EQUAL. SIGNED AND SEALED ENGINEERING DRAWINGS ARE REQUIRED TO BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO ORDERING ANY MATERIALS.
  5. REMOVAL OF ALL CONSTRUCTION DEBRIS, LIMESTONE, EXCESS OF BUILDERS SAND, CONCRETE AND MORTAR DEBRIS, EXISTING WEEDS AND GRASSES, AND ALL FOREIGN MATERIALS IN THE PLANTING BED AND SOD AREAS SHALL BE REMOVED AND 36" OF CLEAN FLORIDA FILL OF PH 5.5-6.5 SHALL BE INSTALLED PRIOR TO ANY INSTALLATION OF PLANTS AND TREES.



- LEGEND
- - SELECT TREES TO BE PRESERVED
  - ✕ - TREES TO BE REMOVED
  - 62.17 - PROPOSED SPOT ELEVATION (ALL POINTS ARE LOCATED AT EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED)
  - PG-07 - STORM DRAINAGE STRUCTURE LABEL
  - - PROPOSED DRAINAGE INLET
  - - PROPOSED STORMWATER MANHOLE
  - - EXISTING STORM PIPE
  - - PROPOSED STORM PIPE
  - - EXISTING CONTOURS
  - 62.8 - PROPOSED CONTOURS
  - - PROPOSED FLOW DIRECTION ARROWS
  - ⊙ - SOIL BORING LOCATION



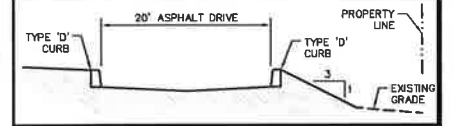
STORM STRUCTURE TABLE

PG-01 TYPE "Y" INLET PER FDOT INDEX 232 N=10542.5597, E=9816.1466 GRATE: 63.22 INV IN: 59.22 (SW 18")	PG-02 STORM MANHOLE PER FDOT INDEX 200, 201 WITH "USF 3125" RING AND "5640" GRATE N=10541.1735, E=9787.9618 GRATE: 64.27 INV IN: 58.84 (NE 18") INV OUT: 58.94 (SE 24")	PG-03 STORM MANHOLE PER FDOT INDEX 200, 201 WITH "USF 3125" RING AND "5640" GRATE N=10446.8135, E=9806.4660 GRATE: 65.72 INV IN: 58.56 (NW 24") INV IN: 61.30 (SW 10") INV OUT: 57.66 (SE 24")
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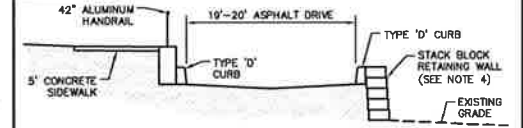
STORM STRUCTURE TABLE

PG-04 STORM MANHOLE PER FDOT INDEX 200, 201 WITH "USF 3125" RING AND "5640" GRATE N=10351.0845, E=9864.0391 GRATE: 65.76 INV IN: 57.43 (NW 24") INV IN: 60.89 (SW 8") INV OUT: 57.43 (SE 24")	PG-05 STORM MANHOLE PER FDOT INDEX 200, 201 WITH "USF 3125" RING AND "5640" GRATE N=10226.6775, E=9937.3285 GRATE: 63.28 INV IN: 57.14 (NW 24") INV IN: 57.14 (NE 18") INV OUT: 57.14 (SW 24")	PG-06 TYPE "Y" INLET PER FDOT INDEX 232 N=10254.3397, E=9959.8856 GRATE: 62.20 INV OUT: 57.32 (SW 18")
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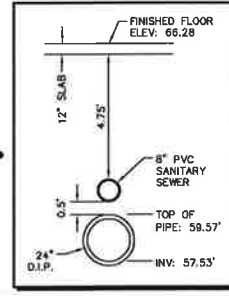
SECTION 'A-A'



SECTION 'B-B'



SECTION 'C-C'



FEMA:  
THE REAL PROPERTY SHOWN HEREON LIES WITHIN ZONES 'X' (SHADED), 'X' (UNSHADED) AND 'AE' AS DESIGNATED ON THE FLOOD INSURANCE RATE MAP NUMBERS 12001C02830 & 12001C02840; COMMUNITY NUMBER: 125107; PANELS: 02830 & 02840; EFFECTIVE DATE: 06/16/06. SAID MAP DESCRIBES ZONE 'X' (SHADED) AS BEING "AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD"; ZONE 'X' (UNSHADED) AS BEING "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN;" AND ZONE 'AE' AS BEING "SPECIAL FLOOD HAZARD AREAS (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. BASE FLOOD ELEVATIONS DETERMINED."

**Kimley»Horn**  
© 2016 KIMLEY-HORN AND ASSOCIATES, INC.  
1823 SE FORT KING STREET, SUITE 200, OCALA, FL 34471  
PHONE: 352-438-3000  
WWW.KIMLEY-HORN.COM CA 0000696

LICENSED PROFESSIONAL	RICHARD V. BUSCH, PE
DESIGNED BY	KHA
DRAWN BY	CPM
CHECKED BY	RVB

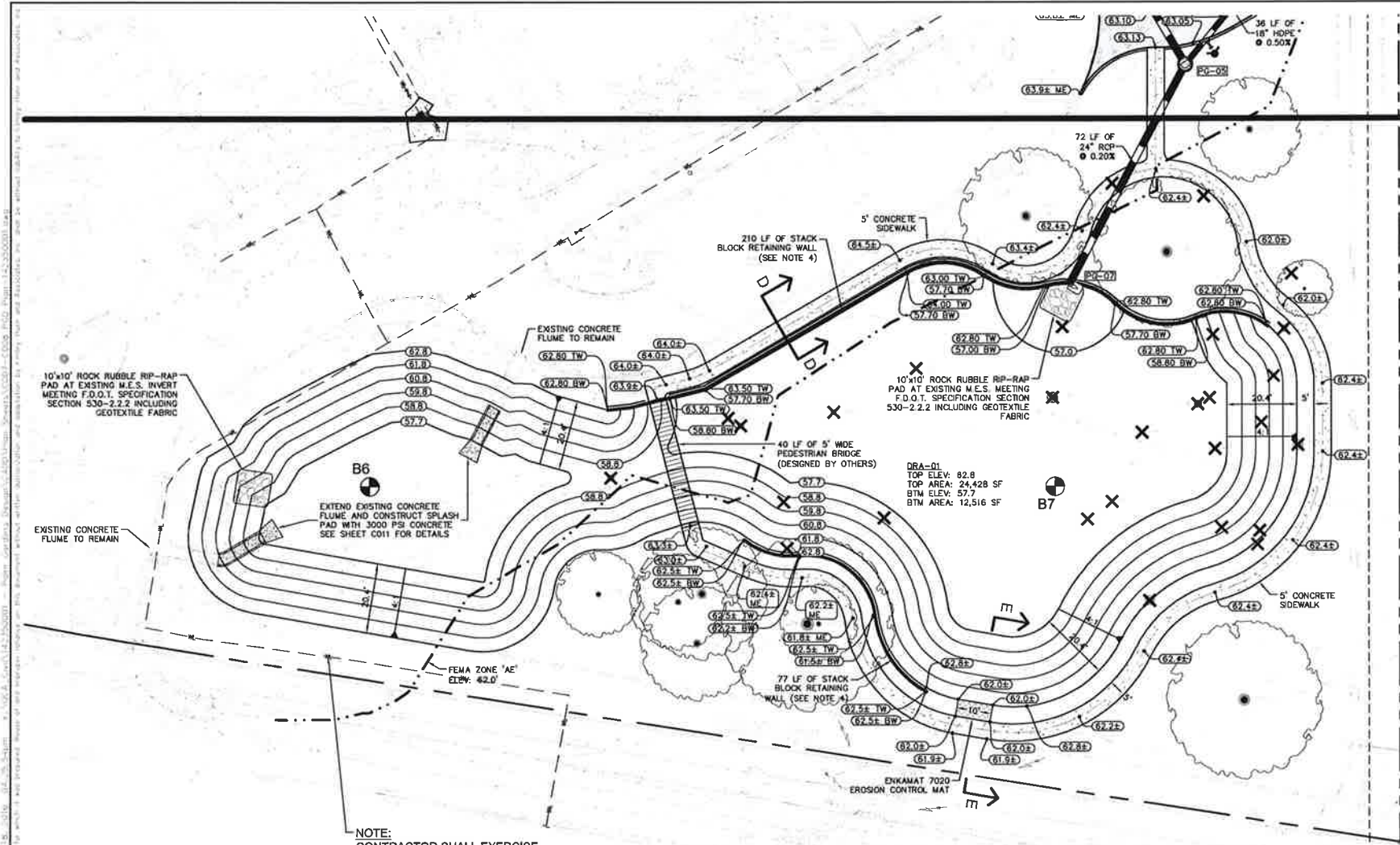
PAVING GRADING  
AND DRAINAGE  
PLAN

PALM GARDEN  
OF GAINESVILLE  
PREPARED FOR  
FLORIDA CONVALESCENT  
CENTERS, INC.  
CITY OF GAINESVILLE, FLORIDA

SHEET NUMBER  
**C007**

APR 13 2016





- NOTES:
1. ALL GRADES ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
  2. ALL SIDEWALK CONSTRUCTION SHALL HAVE A MAXIMUM CROSS SLOPE OF 1.75%.
  3. STORM PIPE MATERIALS SHALL BE AS NOTED UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER. PVC STORM DRAINS SHALL BE SDR-35.
  4. STACK BLOCK RETAINING WALLS SHALL BE KEYSTONE STACKED BLOCK STRUCTURAL RETAINING WALL AS MANUFACTURED BY CONTECH, INC. OR APPROVED EQUAL. SIGNED AND SEALED ENGINEERING DRAWINGS ARE REQUIRED TO BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO ORDERING ANY MATERIALS.
  5. REMOVAL OF ALL CONSTRUCTION DEBRIS, LIMESTONE, EXCESS OF BUILDERS SAND, CONCRETE AND MORTAR DEBRIS, EXISTING WEEDS AND GRASSES, AND ALL FOREIGN MATERIALS IN THE PLANTING BED AND 500 AREAS SHALL BE REMOVED AND 36\"/>

- LEGEND
- SELECT TREES TO BE PRESERVED
  - TREES TO BE REMOVED
  - PROPOSED SPOT ELEVATION (ALL POINTS ARE LOCATED AT EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED)
  - STORM DRAINAGE STRUCTURE LABEL
  - PROPOSED DRAINAGE INLET
  - PROPOSED STORMWATER MANHOLE
  - EXISTING STORM PIPE
  - PROPOSED STORM PIPE
  - EXISTING CONTOURS
  - PROPOSED CONTOURS
  - PROPOSED FLOW DIRECTION ARROWS
  - SOIL BORING LOCATION

STORM STRUCTURE TABLE

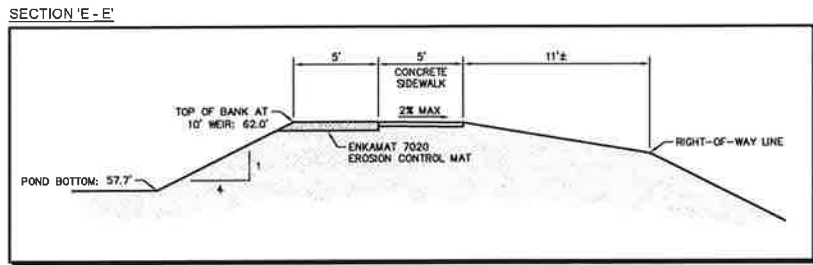
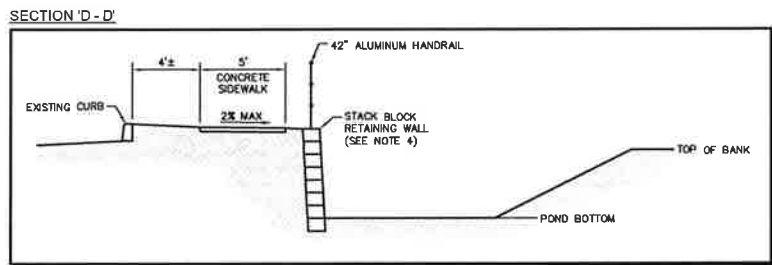
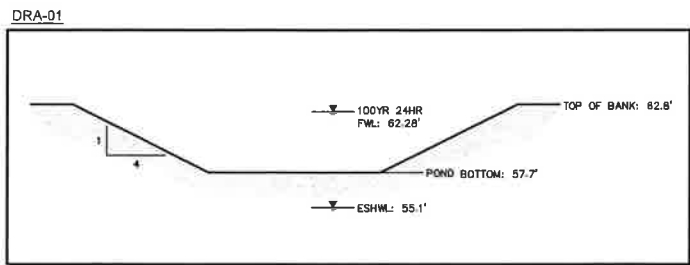
PG-05
STORM MANHOLE PER FDOT INDEX 200, 201
WITH "USF" 3125' RING AND "5640" GRATE
N=10226.6775, E=9937.3285
GRATE: 63.28
INV IN: 57.14 (NW 24°)
INV IN: 57.14 (NE 18°)
INV OUT: 57.14 (SW 24°)

PG-07
FLUSH ENDWALL IN STACK BLOCK WALL (BY OTHERS)
N=10167.6816, E=9903.3823
FL INV: 57.00 (NE 24°)

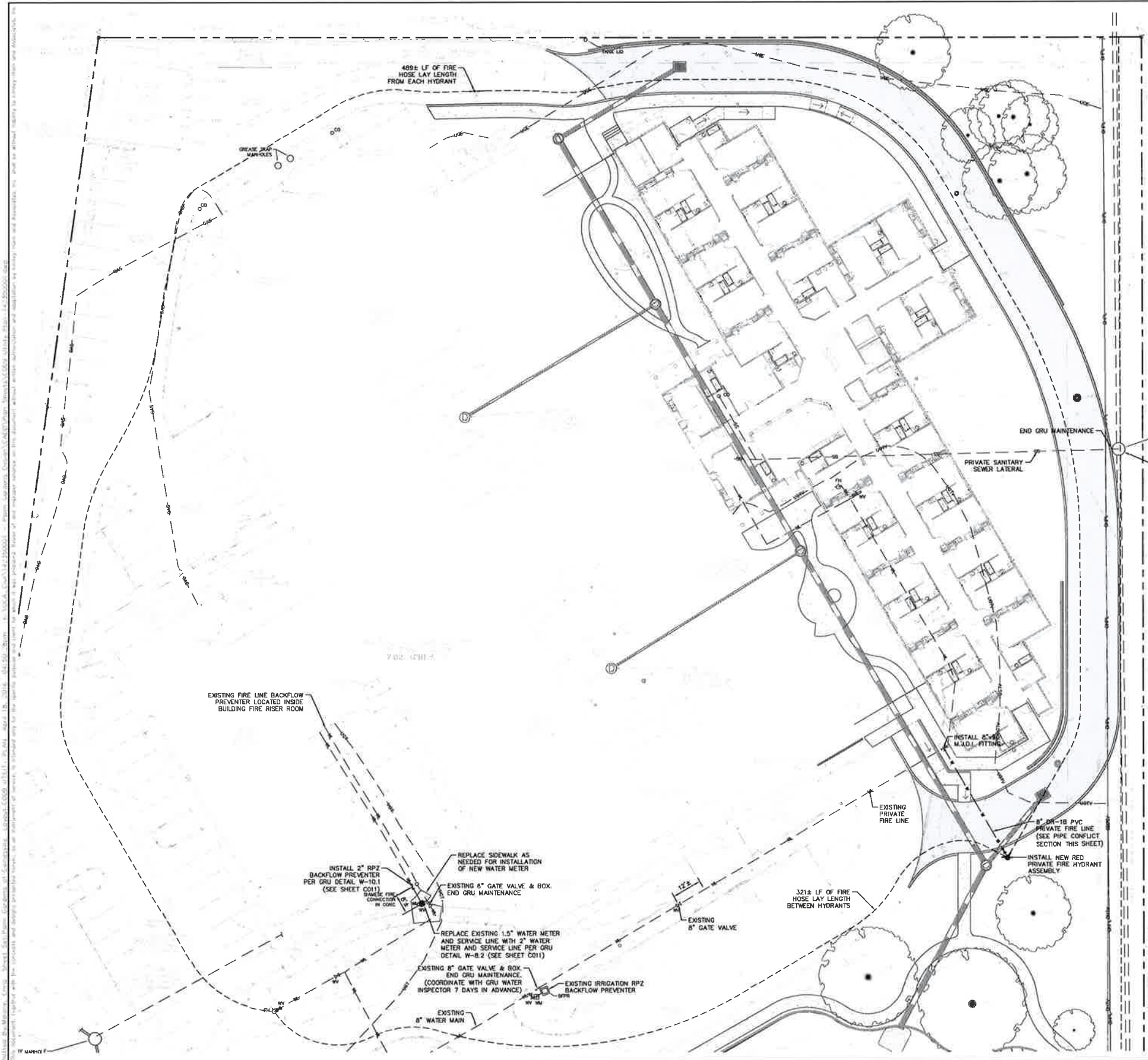
FEMA:

THE REAL PROPERTY SHOWN HEREON LIES WITHIN ZONES "X" (SHADED), "X" (UNSHADED) AND "AE" AS DESIGNATED ON THE FLOOD INSURANCE RATE MAP NUMBERS 1200102293D & 1200102294D; COMMUNITY NUMBERS: 123107; PANELS: 0293D & 0294D; EFFECTIVE DATE: 08/16/08. SAID MAP DESCRIBES ZONE "X" (SHADED) AS BEING "AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD." ZONE "X" (UNSHADED) AS BEING "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN," AND ZONE "AE" AS BEING "SPECIAL FLOOD HAZARD AREAS (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD, BASE FLOOD ELEVATIONS DETERMINED."

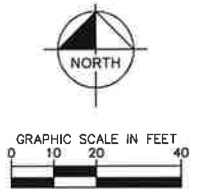


KIMLEY-HORN	
© 2016 KIMLEY-HORN AND ASSOCIATES, INC. 1823 SE FORT KING STREET, SUITE 200, OCALA, FL 34471 PHONE: 352-438-3000 WWW.KIMLEY-HORN.COM CA 0000696	
PAVING GRADING AND DRAINAGE PLAN	
PALM GARDEN OF GAINESVILLE PREPARED FOR FLORIDA CONVALESCENT CENTERS, INC. CITY OF GAINESVILLE FLORIDA	
SHEET NUMBER C008	

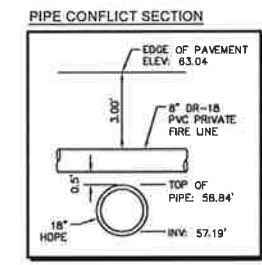




END OF PROPERTY



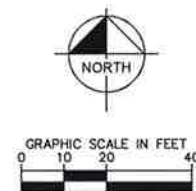
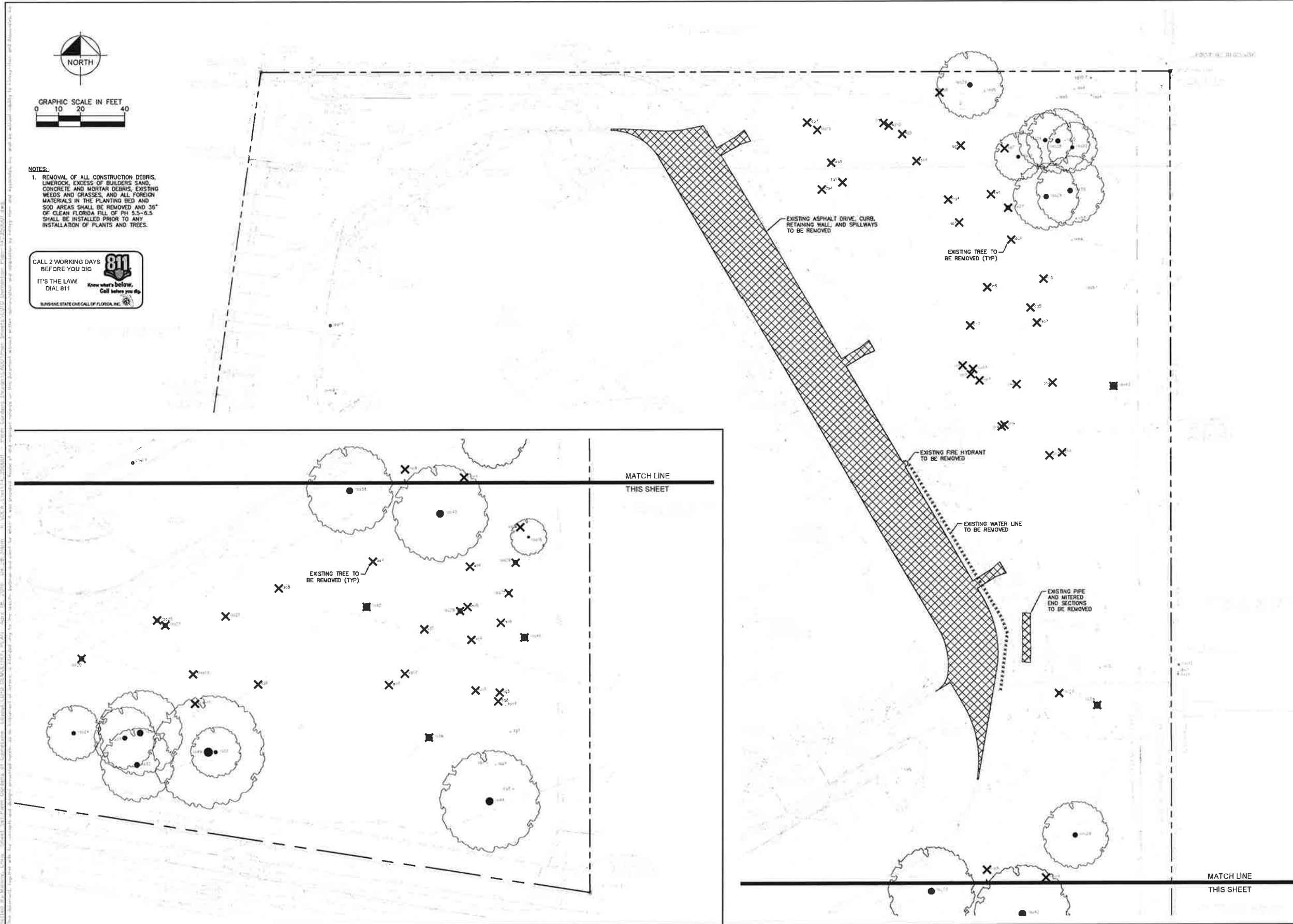
- GAINESVILLE REGIONAL UTILITIES (GRU) STANDARD NOTES:**
1. PROVIDE A STATEMENT IDENTIFYING ANY ASSOCIATED UTILITY PERMITS THAT ARE REQUIRED BY CITY, COUNTY, FDOT, FDEP, OR OTHER AGENCY.
  2. THE UTILITY PLAN AND PLAT SHOWS ALL PUBLIC UTILITY EASEMENTS (PUE'S) IN A METES AND BOUNDS FORMAT. UPON GRU'S APPROVAL OF PLANS FOR DEVELOPMENTS NOT BEING PLATTED, OWNER MAY CHOOSE TO GRANT THE METES AND BOUNDS EASEMENTS AS SHOWN, OR A BLANKET EASEMENT OVER THE ENTIRE PROPERTY, PROVIDED FACILITIES ARE INSTALLED WITHIN THE PRESCRIBED DISTANCES AS SHOWN ON THE UTILITY PLANS AND IN ACCORDANCE WITH THE UTILITY SEPARATION REQUIREMENTS TABLE IN APPENDIX C OF THE GRU W/WW/RCW DESIGN STANDARDS.
  3. ALL CONSTRUCTION MATERIALS AND METHODS FOR POTABLE WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS SHALL BE IN CONFORMANCE WITH GRU'S MOST RECENT POTABLE WATER, WASTEWATER, & RECLAIMED WATER SYSTEM DESIGN STANDARDS, AND APPROVED MATERIALS MANUAL.
  4. POTABLE WATER AND WASTEWATER MAINS SHALL MAINTAIN A MINIMUM 10 FEET HORIZONTAL AND 1.5 FOOT VERTICAL SEPARATION.
  5. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FOR POTABLE WATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS, AND 15 FEET FOR GRAVITY WASTEWATER MAINS SHALL BE PROVIDED AND MAINTAINED FROM, BUILDINGS, TRANSFORMERS, AND ALL PERMANENT STRUCTURES. SERVICE LATERALS REQUIRE 5 FEET LESS CLEARANCE FOR EACH OF THE UTILITIES; NOTE THAT WATER SERVICE LATERALS SHALL BE INSTALLED WITHIN 3' SLEEVES. SEPARATION TO TREES IS REDUCED TO 7'5" FOR PRESSURIZED MAINS AND SERVICES AND 10' (MINIMUM) FOR GRAVITY MAINS AND SERVICES. (SEE APPENDIX C OF GRU'S DESIGN STANDARDS AND CONSTRUCTION DETAILS FOR POTABLE WATER, WASTEWATER, AND RECLAIMED WATER - HORIZONTAL SEPARATION DISTANCES FOR PARALLEL AND PERPENDICULAR CLEARANCE FROM OTHER OBJECTS TABLE.)



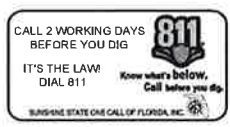
APR 19 2016  
FLA

<b>PALM GARDEN OF GAINESVILLE</b> PREPARED FOR <b>FLORIDA CONVALESCENT CENTERS, INC.</b> CITY OF GAINESVILLE FLORIDA		<b>UTILITY PLAN</b>		<b>Kimley»Horn</b> © 2016 KIMLEY-HORN AND ASSOCIATES, INC. 1823 SE FORT KING STREET, SUITE 200, OCALA, FL 34471 PHONE: 352-438-3000 WWW.KIMLEY-HORN.COM CA 00000696	
SHEET NUMBER <b>C009</b>		DESIGNED BY: KHA DRAWN BY: CPM CHECKED BY: RVB		LISCENSED PROFESSIONAL RICHARD V. BUSCH, PE FLORIDA LICENSE NUMBER 58568	
DATE: APRIL 2016 SCALE: AS SHOWN		KHA PROJECT 142350001		PERMIT SET - NOT FOR CONSTRUCTION 03-01-16 CPM	





NOTES:  
1. REMOVAL OF ALL CONSTRUCTION DEBRIS, LUMBER, EXCESS OF BUILDERS SAND, CONCRETE AND MORTAR DEBRIS, EXISTING WEEDS AND GRASSES, AND ALL FOREIGN MATERIALS IN THE PLANTING BED AND SOD AREAS SHALL BE REMOVED AND 36" OF CLEAN FLORIDA FILL OF PH 5.5-6.5 SHALL BE INSTALLED PRIOR TO ANY INSTALLATION OF PLANTS AND TREES.



SHEET NUMBER C010		PALM GARDEN OF GAINESVILLE PREPARED FOR FLORIDA CONVALESCENT CENTERS, INC. CITY OF GAINESVILLE FLORIDA		DEMOLITION PLAN		KHA PROJECT 142350001 DATE APRIL 2016 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY CPM CHECKED BY RVB		LICENSED PROFESSIONAL RICHARD V. BUSCH, PE FLORIDA LICENSE NUMBER 58568		Kimley»Horn © 2016 KIMLEY-HORN AND ASSOCIATES, INC. 1833 SE FORT KING STREET, SUITE 200, OCALA, FL 34471 PHONE: 352-438-3000 WWW.KIMLEY-HORN.COM CA 00000886		PERMIT SET - NOT FOR CONSTRUCTION 03-01-16 CPM		REVISIONS		DATE		BY	
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NOTE: THESE TABLES ARE FOR PVC PIPE ONLY; SEE W-2.8 OR W-2.9 FOR DIP

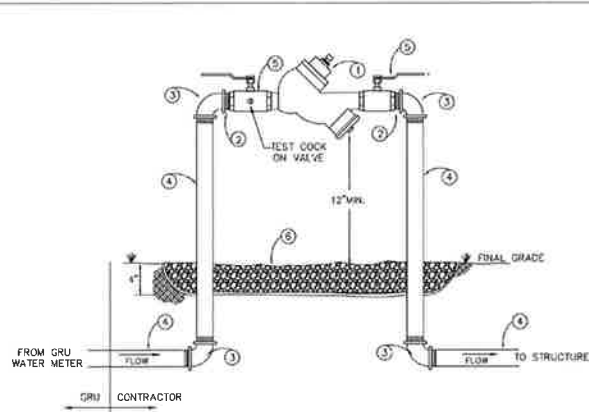
RESTRAIN "A" (LF)										
FITTING	4"	6"	8"	12"	16"	20"	24"	30"	36"	
11W BEND	4	6	7	8	11	12	14	16	18	
22W BEND	7	10	12	15	20	23	27	31	35	
45/OFFSET	14	19	24	33	41	47	54	63	71	
90° BEND	33	45	57	78	97	114	130	150	169	
DEAD END	57	78	101	140	176	211	243	285	326	

RESTRAIN (LF)		
FITTING SIZE	TEE "A"	REDUCER "B"
4x4	28	*
6x4	14	A1
6x6	50	*
8x4	A.T.	73
8x6	38	A3
8x8	73	*
12x4	A.T.	121
12x6	15	102
12x8	50	75
12x12	110	*
16x8	A.T.	146
16x8	26	129
16x12	85	75
16x16	146	*
20x8	A.T.	189
20x8	11	175
20x12	69	133
20x16	125	74
20x20	180	*
24x8	A.T.	225
24x8	A.T.	213
24x12	50	180
24x16	104	133
24x20	157	73
24x24	213	*

RESTRAIN (LF)		
FITTING SIZE	TEE "A"	REDUCER "B"
30x6	A.T.	272
30x8	A.T.	283
30x12	27	238
30x16	77	201
30x20	126	156
30x24	179	101
30x30	254	*
36x6	A.T.	315
36x8	A.T.	307
36x12	10	287
36x16	54	259
36x20	100	223
36x24	148	179
36x30	217	100
36x36	292	*

A.T.=RESTRAINT REQUIRED AT TEE ONLY.  
\*NOT APPLICABLERevision Date:  
10/27/2014Gainesville Regional Utilities  
Potable Water Construction Details  
PVC RESTRAINED JOINT STANDARD FOR  
FOR BENDS, PLUGS, CAPS, TEES AND REDUCERS

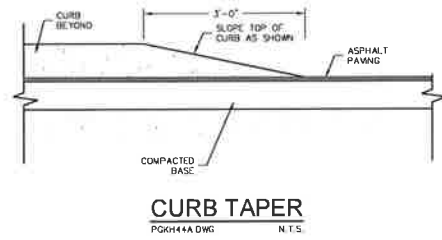
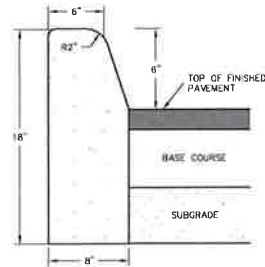
W-2.8.1



MATERIALS	
ITEM	DESCRIPTION
1	3/4", 1", 1-1/4", 1-1/2", 2" REDUCED PRESSURE ZONE BACKFLOW PREVENTER
2	3/4", 1", 1-1/4", 1-1/2", 2" BRASS NIPPLE
3	3/4", 1", 1-1/4", 1-1/2", 2" GALVANIZED 90 DEG ELBOW
4	3/4", 1", 1-1/4", 1-1/2", 2" GALVANIZED PIPE
5	3/4", 1", 1-1/4", 1-1/2", 2" 1/4 TURN BRASS BALL VALVE
6	GRAVEL BED (NO. 57 STONE)

Revision Date:  
2/20/08Gainesville Regional Utilities  
Potable Water Construction Details  
REDUCED PRESSURE ZONE BACKFLOW PREVENTER  
SINGLE SERVICE: 3/4", 1", 1-1/4", 1-1/2", 2"

W-10.1

CURB TAPER  
PG0414A.DWG  
N.T.S.

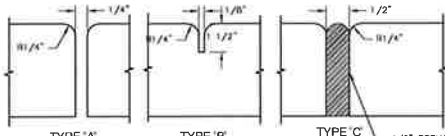
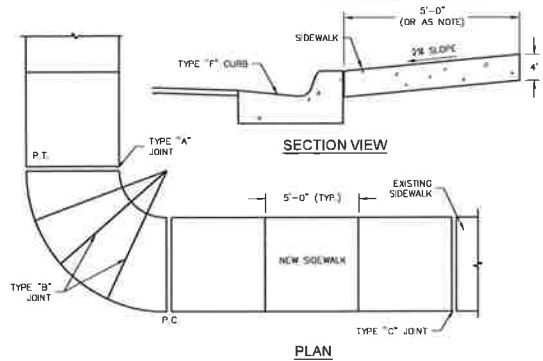
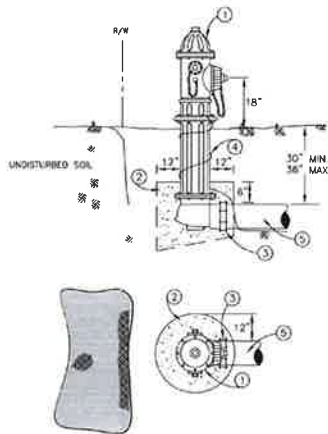
ALL CONCRETE SHALL BE 3,000 PSI

TYPE "D" CURB  
PG0427A.DWG  
N.T.S.

TABLE OF SIDEWALK THICKNESS - "T"	
LOCATION	"T"
RESIDENTIAL AREAS AT DRIVEWAYS AND OTHER AREAS	4"

NOTE:  
CONCRETE TO BE 3,000 P.S.I. AT 28 DAYS

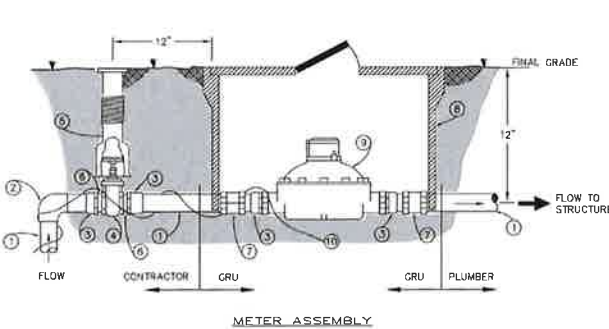
TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
"A"	P.C. AND P.T. OF CURVES
"B"	5'-0" CENTER TO CENTER ON SIDEWALKS (NOT LESS THAN 4' AND NOT GREATER THAN 100')
"C"	WHERE SIDEWALK ADJUTS CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES. JUNCTION OF EXISTING AND NEW SIDEWALKS AT INTERVALS NOT GREATER THAN 100'.

SIDEWALK JOINTS  
SIDEWALK CONSTRUCTION  
PG0434A.DWG  
N.T.S.

MATERIALS	
ITEM	DESCRIPTION
1	FIRE HYDRANT
2	GRAVEL DRAIN BED (NO. 57 STONE)
3	EBAA MEGALUG RESTRAINT
4	TRACER WIRE, COPPER, BLUE INSULATED, #10 AWG
5	PIPE, D.I.

NOTE:  
1. RESTRAIN MINIMUM 58' OF PIPERevision Date:  
2/20/08Gainesville Regional Utilities  
Potable Water Construction Details  
FIRE HYDRANT - DEAD END MAIN

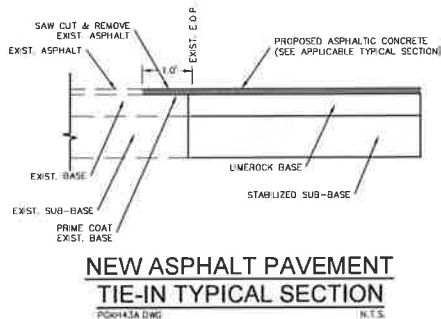
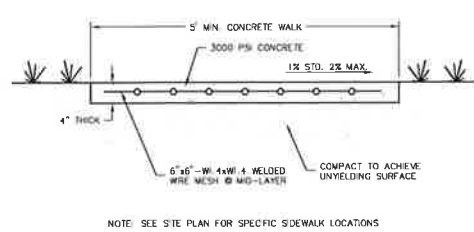
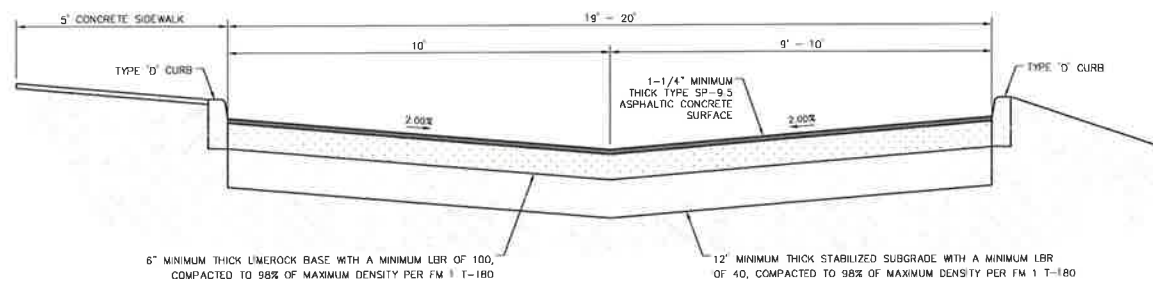
W-5.0



MATERIALS	
ITEM	DESCRIPTION
1	2" SCH 40 PVC PIPE
2	2" SCH 40 PVC 90 DEG ELBOW
3	2" SCH 40 PVC FEMALE ADAPTER, OR 2" x 1-1/2" REDUCER
4	1-1/2", 2" BRASS GATE VALVE
5	VALVE BOX, C.I.
6	BRASS NIPPLE
7	2" SCH 40 PVC COUPLING, COMPRESSION
8	METER BOX, PRECAST CONC.
9	1-1/2", 2" WATER METER
10	TRACER WIRE, COPPER, BLUE INSULATED, #10 AWG

NOTE:  
1. GAINESVILLE REGIONAL UTILITIES WILL INSTALL WATER METER ASSEMBLY  
INCLUDING THE WATER METER BOX.Revision Date:  
2/20/08Gainesville Regional Utilities  
Potable Water Construction Details  
WATER METER ASSEMBLY: 1 1/2" & 2" & 3"

W-8.2

NEW ASPHALT PAVEMENT  
TIE-IN TYPICAL SECTION  
PG0433A.DWG  
N.T.S.TYPICAL SIDEWALK SECTION  
PG0439A.DWG  
N.T.S.NOTE:  
CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL  
SUCH AS CLAY AND ROOTS PER AGENCY REQUIREMENTS.

TYPICAL ROAD SECTION

Kimley»Horn

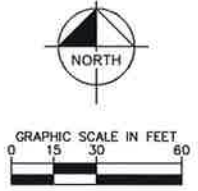
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1823 SE FORT KING STREET, SUITE 200, OCALA, FL 34471  
PHONE: 352-438-3000  
WWW.KIMLEY-HORN.COM CA 00000896LICENSED PROFESSIONAL  
RICHARD V. BUSCH, PE  
FLORIDA LICENSE NUMBER  
58568KHA PROJECT  
142350001  
DATE  
APRIL 2016  
SCALE  
AS SHOWN  
DESIGNED BY  
KHA  
DRAWN BY  
CPM  
CHECKED BY  
RVB

CIVIL DETAILS

PALM GARDEN  
OF GAINESVILLE  
PREPARED FOR  
FLORIDA CONVALESCENT  
CENTERS, INC.  
CITY OF GAINESVILLE FLORIDASHEET NUMBER  
C011



NOTED BY: GAINESVILLE, FLORIDA. SHEET: 0012. PREPARED FOR: FLORIDA CONVALESCENT CENTERS, INC. PROJECT: 142350001. DATE: APRIL 2016. SCALE: AS SHOWN. DESIGNED BY: KHA. DRAWN BY: CFM. CHECKED BY: RVB. DATE: APRIL 2016. THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGN PRESENTED HEREIN, IS AN INSTRUMENT OF SERVICE. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY REUSE OR MODIFICATION OF THIS DOCUMENT WITHOUT THE WRITTEN AUTHORIZATION OF KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.



COORDINATE EROSION CONTROL WITH THE MASS GRADING OPERATION AND ELIMINATE REDUNDANT MEASURES, OR IMPLEMENT ADDITIONAL MEASURES, AS NEEDED TO REMAIN IN FULL COMPLIANCE WITH THE N.P.D.E.S. PERMIT.

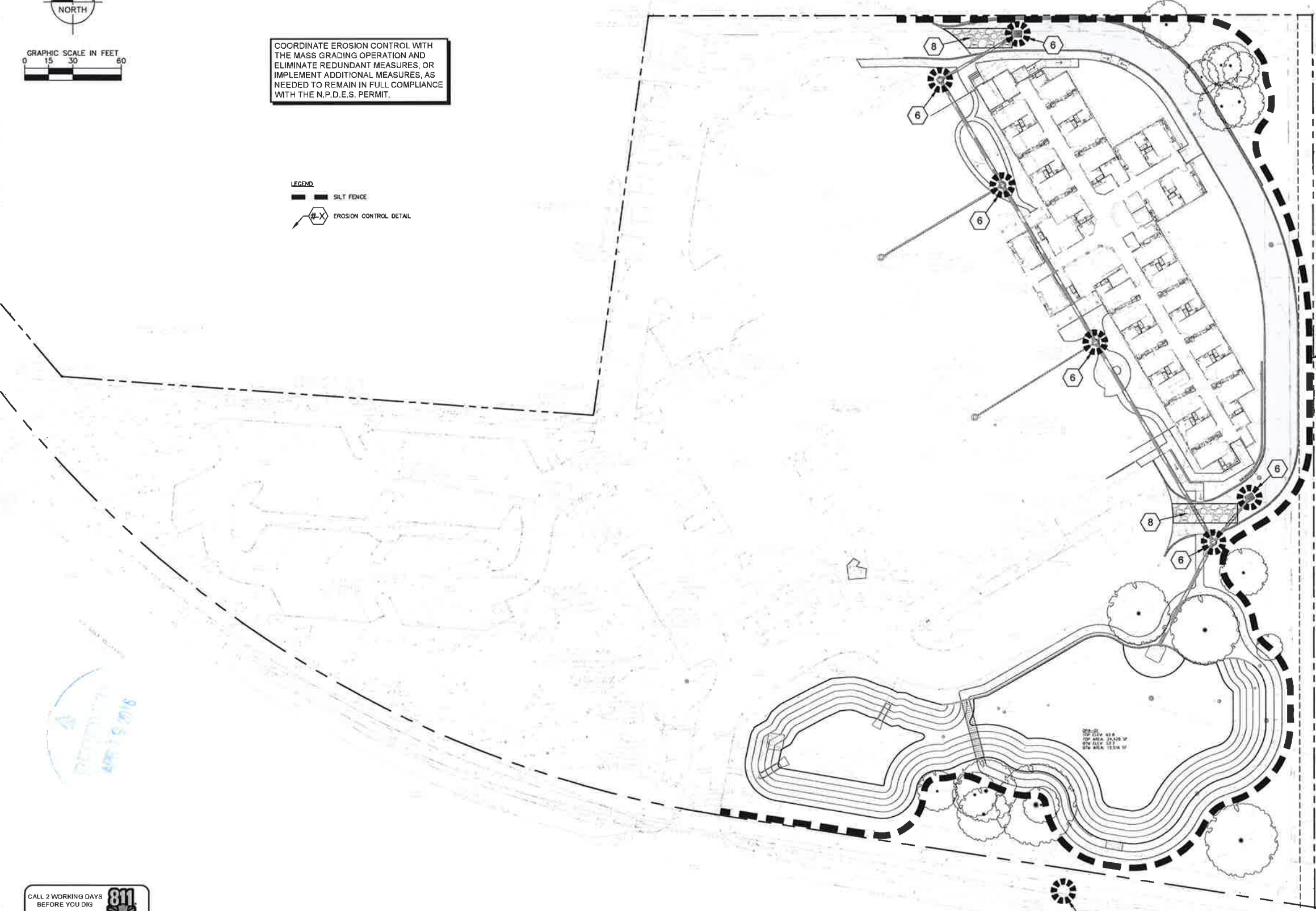
- LEGEND
- SILT FENCE
  - EROSION CONTROL DETAIL

CALL 2 WORKING DAYS BEFORE YOU DIG

IT'S THE LAW DIAL 811

Know what's below. Call before you dig.

FLORIDA STATE ONE CALL OF FLORIDA, INC.





SETTLING FACILITIES, PERIMETER CONTROLS, AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RE-STABILIZED.

CONTROL PRACTICES SHALL PRESERVE EXISTING VEGETATION WHERE ATTAINABLE AND DISTURBED AREAS SHALL BE RE-VEGETATED AS SOON AS PRACTICAL AFTER GRADING OR CONSTRUCTION.

DENUDED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN FOURTEEN DAYS IF THEY ARE TO REMAIN DORMANT FOR MORE THAN FORTY-FIVE DAYS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN FOURTEEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE, AND SHALL ALSO BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN FORTY-FIVE DAYS.

SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE INTERCEPTED BY SEDIMENT BARRIERS.

SEDIMENT BARRIERS SUCH AS SEDIMENT FENCE OR DIVERSIONS TO SETTLING FACILITIES SHALL PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED BY SHEET FLOW.

ALL STORM SEWER INLETS WHICH ACCEPT WATER RUNOFF FROM THE DEVELOPMENT AREA SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL NOT ENTER THE STORM SYSTEM WITHOUT FIRST BEING PONDED AND FILTERED.

TEMPORARY EROSION CONTROL FEATURES SHALL BE ACCEPTABLY MAINTAINED AND SHALL BE REMOVED OR REPLACED WHEN DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS.

ALL SOIL STOCKPILES SHALL BE PROTECTED FROM EROSION BY PERIMETER CONTROL DEVICES SUCH AS STRAW BALE DIKES OR FILTER FABRIC FENCES. AND THESE PERIMETER CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.

PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED WHICH, IN THE OPINION OF THE ENGINEER, PROVIDES ADEQUATE COVER AND IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE ADVERSE WEATHER CONDITIONS.

MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES OR PUBLIC ROADS WHERE RUNOFF IS NOT CHECKED.

1. DIVERSION SWALE AND STRUCTURAL PROTECTION - INSPECT EVERY 7 DAYS OR AFTER EACH RAINSTORM PRODUCING RUNOFF. REPAIR AS REQUIRED.
2. INLET PROTECTION - INSPECT FOR SEDIMENT ACCUMULATION AFTER EACH RAINFALL AND DAILY DURING CONTINUED RAINFALL. REPAIR OR REPLACE WHEN WATER FLOW IS RESTRICTED BY SEDIMENT.
3. VEGETATIVE PLANTING - INSPECT AFTER SPROUTING OCCURS AND REPLANT BARE AREAS. INSPECT ESTABLISHED COVER EVERY 15 DAYS FOR DAMAGE; REPLANT AS REQUIRED. MAINTAIN ESTABLISHED COVER AT MAXIMUM 6" HEIGHT IRRIGATE AS REQUIRED DURING DRY PERIODS TO MAINTAIN LIVE VEGETATION.

1. INSTALL SEDIMENT CONTROL MEASURES
2. PERFORM DEMOLITION ACTIVITIES.
3. STABILIZE SITE WITH TEMPORARY VEGETATION AS NEEDED.
4. PERFORM IRRIGATION AND UNDERGROUND UTILITY CONSTRUCTION ACTIVITIES.
5. CONSTRUCT NEW TRAILS AND INSTALL LANDSCAPING.
6. PERFORM FINAL GRADING.
7. INSTALL PERMANENT VEGETATION.
8. PERFORM CONTINUING MAINTENANCE THROUGHOUT ALL CONSTRUCTION OPERATIONS.

BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.

THE REMAINING STEPS FOR INSTALLING A STRAW BALE BARRIER FOR SHEET FLOW APPLICATIONS APPLY HERE, WITH THE FOLLOWING ADDITION. THE STRAW BALES SHALL BE INSTALLED SUCH THAT UNDERCUTTING BENEATH THE BALES IS MINIMIZED BY THE USE OF ROCK CHECK DAMS PLACED ADJACENT TO THE STRAW BALES.

THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE TO ASSURE THAT SEDIMENT-LADEN RUNOFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER BUT NOT AROUND IT.

STRAW BALES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.

NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDDED.

THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

1. THE HEIGHT OF A SEDIMENT FENCE SHALL NOT EXCEED 36-INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED.
3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1-INCH LONG, THE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8-INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
7. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSURE POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED IN SUCH A CASE. THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.
8. THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
9. SEDIMENT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

SEDIMENT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SHOULD THE FABRIC ON A SEDIMENT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SEDIMENT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEED.

THIS PLAN AND NARRATIVE REPRESENTS THE MINIMUM AMOUNT OF EROSION AND SEDIMENT CONTROL MEASURES, IN THE OPINION OF THE ENGINEER, THAT MAY BE NECESSARY UNDER FAVORABLE WEATHER CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL MEASURES OR PRACTICES THAT MAY BE NECESSARY TO CONTROL EROSION, TURBID DISCHARGE, FUGITIVE PARTICULATES, ETC. TO FULLY COMPLY WITH ALL GOVERNMENTAL RULES AND/OR PERMIT REQUIREMENTS.

PLAN DESIGNER: KIMLEY-HORN AND ASSOCIATES INC.  
1823 SE FORT KING STREET, SUITE 200  
OCALA, FLORIDA 34471  
PHONE: (352) 438-3000

OWNER/  
DEVELOPER: FLORIDA CONVALESCENT CENTERS, INC.  
2033 MAIN STREET, SUITE 300  
SARASOTA, FL 34237  
(941)952-9411

ADJACENT NORTH: OFFICE  
AREAS: SOUTH: SW 62ND BOULEVARD  
EAST: SINGLE FAMILY / CONSERVATION  
WEST: SW 62ND BOULEVARD

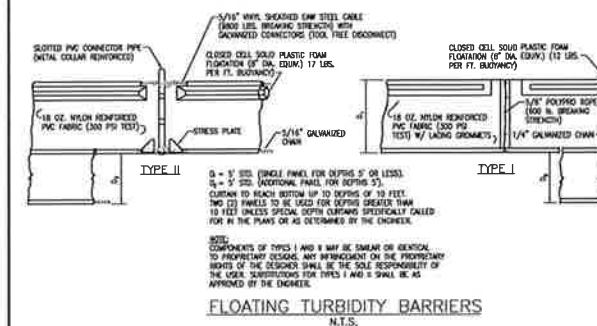
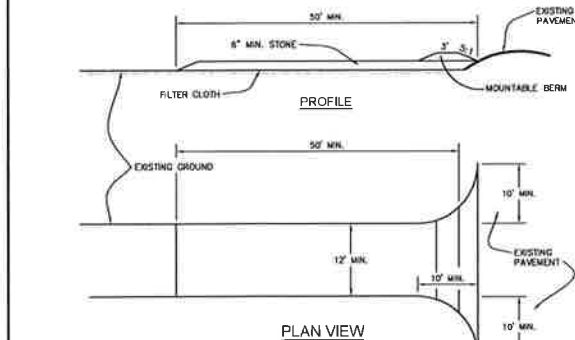
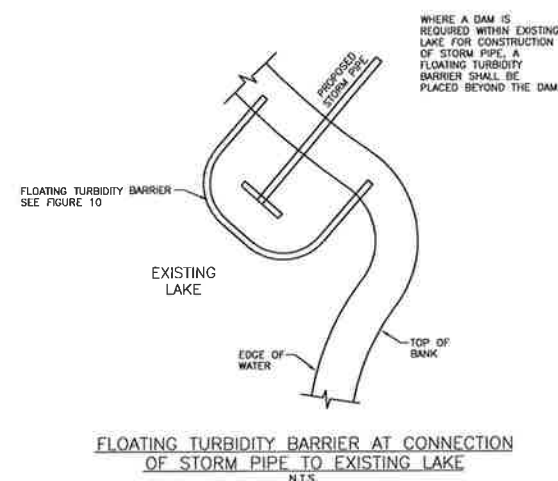
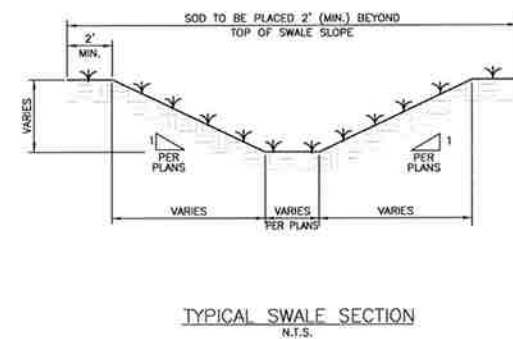
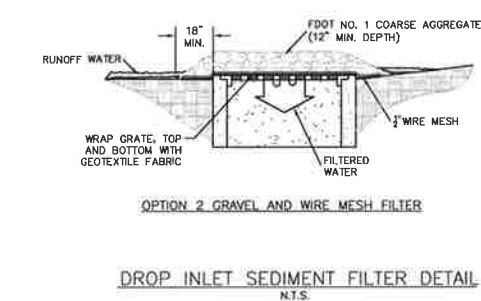
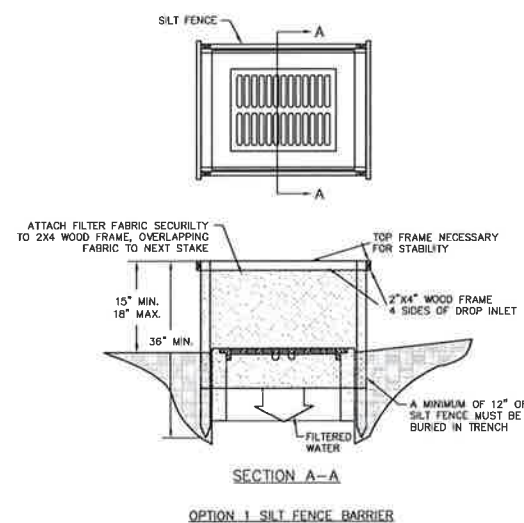
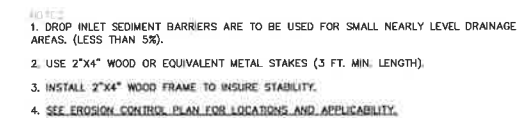
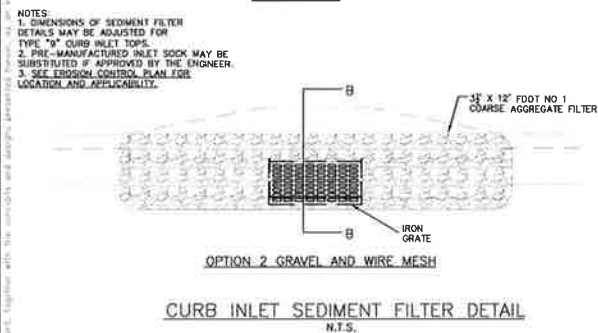
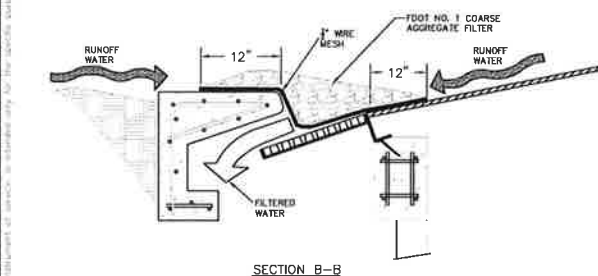
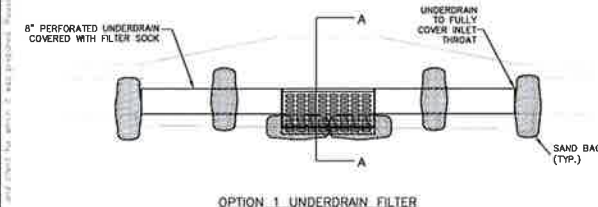
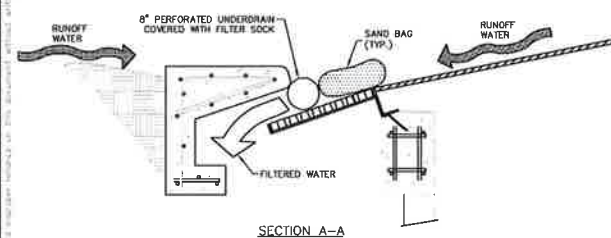
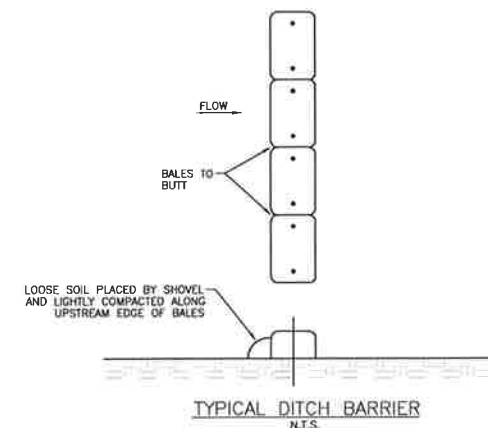
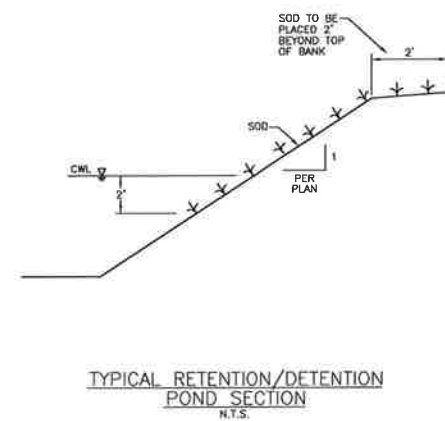
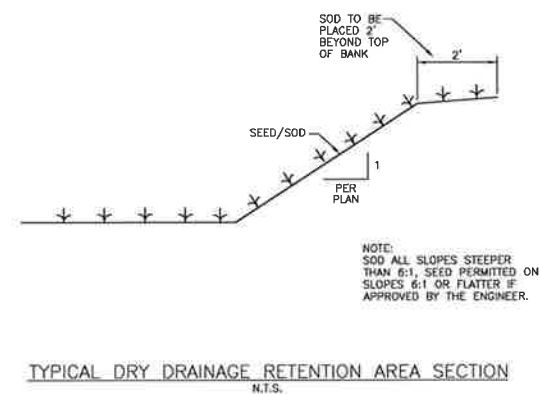
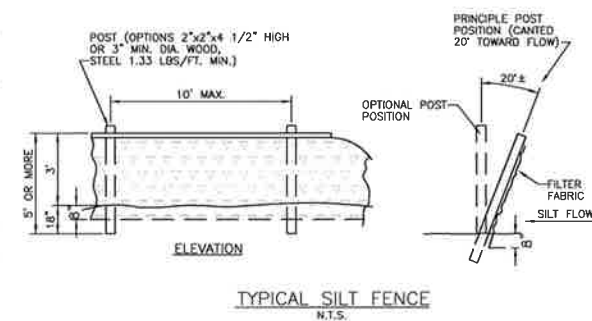
EROSION CONTROL MEASURE: EROSION AND SITE RUNOFF WILL BE CONTROLLED BY OF SEDIMENT FENCE AND STABILIZED VEGETATION WHEN NEEDED.

SITE CONTACT: ROB GREENE  
FLORIDA CONVALESCENT CENTERS, INC.  
2033 MAIN STREET, SUITE 300  
SARASOTA, FL 34237  
(941) 952-9411

THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PROGRAM IS REGULATED THROUGH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). IF YOUR CONSTRUCTION ACTIVITY MEETS THE FOLLOWING CRITERIA:

1. CONTRIBUTES STORM WATER DISCHARGE TO SURFACE WATERS OF THE STATE OR INTO A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4); AND/OR
2. DISTURBS ONE OR MORE ACRES OF LAND INCLUDING LESS THAN ONE ACRE IF ACTIVITY IS PART OF A LARGE COMMON PLAN OF DEVELOPMENT OR SALE THAT WILL MEET OR EXCEED A ONE ACRE THRESHOLD. DISTURBANCE INCLUDES CLEARING, GRADING AND EXCAVATING. THEN YOU WILL BE REQUIRED TO SUBMIT A NOTICE OF INTENT (NOI) AND PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP).  
FOR MORE INFORMATION PLEASE VISIT FDEP'S WEBSITE AT [WWW.DEP.STATE.FL.US/WATER/STORMWATER/MPDES](http://WWW.DEP.STATE.FL.US/WATER/STORMWATER/MPDES).






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DIAL 811

**811**

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ILLINOIS STATE ONE CALL OF ILLINOIS, INC.

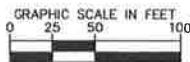
SHEET NUMBER <b>C014</b>	PALM GARDEN OF GAINESVILLE PREPARED FOR FLORIDA CONVALESCENT CENTERS, INC. CITY OF GAINESVILLE, FLORIDA	EROSION CONTROL DETAILS	KHA PROJECT 142350001	LICENSED PROFESSIONAL	 © 2016 KIMLEY-HORN AND ASSOCIATES, INC. 1823 SE FORT KING STREET, SUITE 200, OCALA, FL 34471 PHONE: 352-438-3000 WWW.KIMLEY-HORN.COM CA 00000666	03-01-15 CPM			
			DATE APRIL 2016	RICHARD V. BUSCH, PE			<div>FLORIDA LICENSE NUMBER 58568</div> <div>CHECKED BY DIV DATE</div> <div>REVISIONS DATE</div>		
			SCALE AS SHOWN	DESIGNED BY KHA				PERMIT SET - NOT FOR CONSTRUCTION	
			DRAWN BY CPM						No



Plotted By: Durr, Matt; Shown: All Palm Gardens - Gainesville, TM-100; Date: 11/13/2016; File: 161000; Project: 161000; Title: Overall Tree Mitigation Plan; Notes: This drawing is for informational purposes only. It is not to be used for construction or other purposes without the written approval of the designer. The designer is not responsible for any errors or omissions in this drawing. The user of this drawing is responsible for verifying the accuracy of the information provided.

#### LEGEND

-  TREE TO REMAIN
-  TREE TO BE REMOVED
-  PALM TO REMAIN
-  TREE PROTECTION FENCE



#### TREE APPRAISED VALUE CALCULATIONS FOR LIVE OAKS 20" +

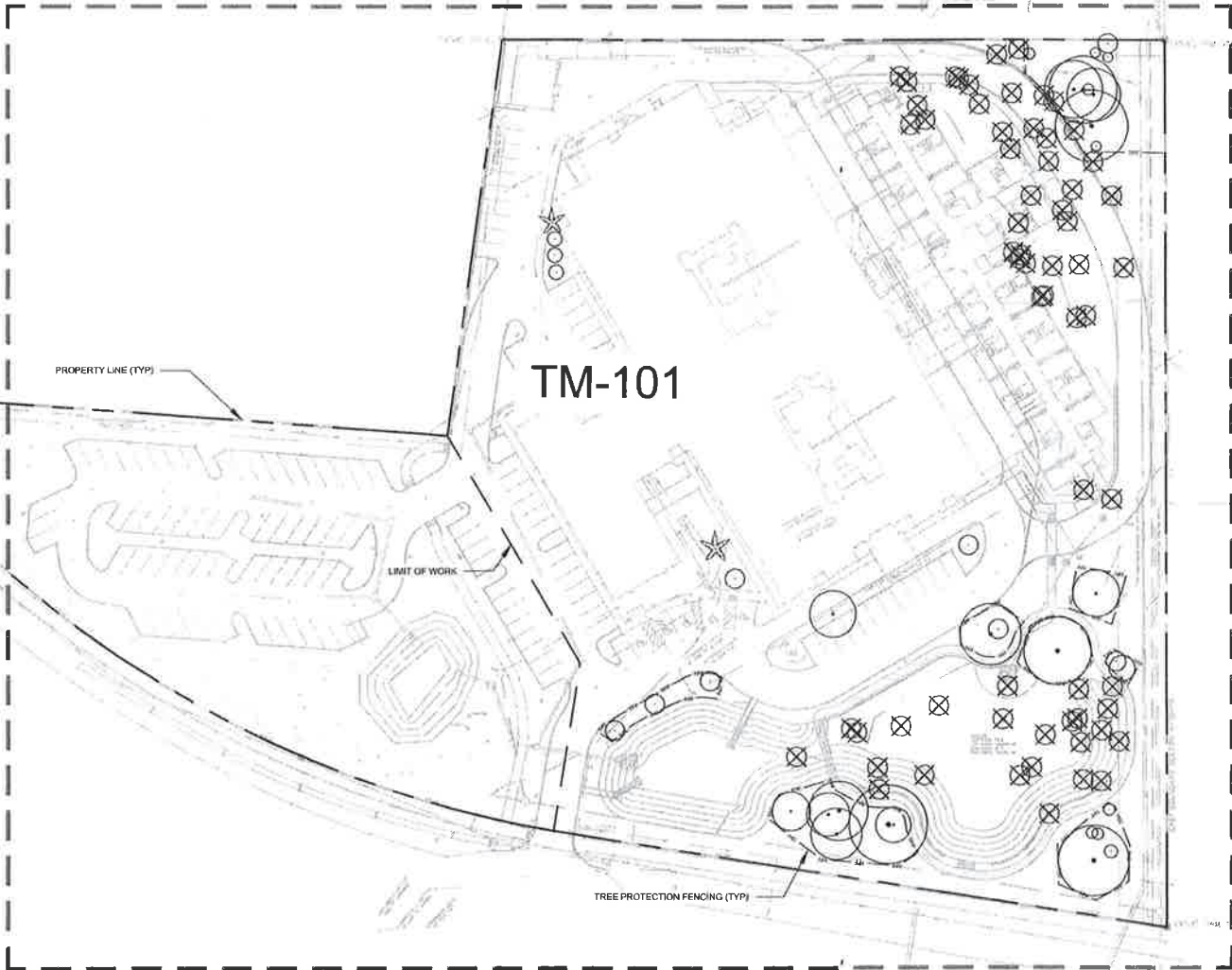
TREE NUMBER	SPECIES	SIZE (DBH)	TRUNK AREA	SQUARE INCH VALUE	TREE APPRAISED VALUE
14	Live Oak	27	572.265	\$22,890.60	\$12,589.83
32	Live Oak	43	1451.465	\$58,058.60	\$31,932.23
33	Live Oak	38	1133.54	\$45,341.60	\$24,937.88
38	Live Oak	21	346.185	\$13,847.40	\$7,616.07
56	Live Oak	42	1384.74	\$55,389.60	\$30,464.28
60	Live Oak	21	346.185	\$13,847.40	\$7,616.07
70	Live Oak	29	660.185	\$26,407.40	\$14,524.07
					<b>\$129,680.43</b>

NOTE: MITIGATION FEE/PAYMENT IS DUE AT THE TIME OF THE DEVELOPMENT ORDER OR AT THE TIME A SITE WORK PERMIT IS PROVIDED FOR THE DEVELOPMENT.

#### TREE REPLACEMENT CALCULATIONS

Tree Type	Total DBH Removed	Total Trees Removed	Total Trees Required	Total Inches Required
Protected Tree	575	56	112	224
			Total Trees Provided	Total Inches Provided
			87	224

NOTE: TREE REPLACEMENT MET THROUGH UPSIZING PROPOSED TREES.



#### TREE OBSERVATION

TREE #	Species	Common Name	DBH	Status
1	Quercus laurifolia	Laurel Oak	7	REMOVE
2	Quercus virginiana	Live Oak	15	REMOVE
3	Quercus laurifolia	Laurel Oak	5	REMOVE
4	Liquidambar styraciflua	Sweetgum	17	REMOVE
5	Quercus laurifolia	Laurel Oak	4	REMOVE
6	Liquidambar styraciflua	Sweetgum	4	REMOVE
7	Liquidambar styraciflua	Sweetgum	10	REMOVE
8	Liquidambar styraciflua	Sweetgum	5	REMOVE
9	Liquidambar styraciflua	Sweetgum	5	REMOVE
10	Liquidambar styraciflua	Sweetgum	7	REMOVE
11	Quercus laurifolia	Laurel Oak	4	REMOVE
12	Magnolia grandiflora	Southern Magnolia	4	REMOVE
13	Celtis laevigata	Sugarberry	5	REMOVE
14	Quercus virginiana	Live Oak	27	REMOVE
15	Celtis laevigata	Sugarberry	5	REMOVE
16	Quercus laurifolia	Laurel Oak	4	REMOVE
17	Prunus serotina	Black cherry	5	REMOVE
18	Prunus serotina	Black cherry	5	REMOVE
19	Prunus serotina	Black cherry	7	REMOVE
20	Quercus laurifolia	Laurel Oak	5	REMOVE
21	Quercus laurifolia	Laurel Oak	7	REMOVE
22	Prunus serotina	Black cherry	5	REMOVE
23	Quercus laurifolia	Laurel Oak	17	REMOVE
24	Quercus laurifolia	Laurel Oak	11	REMOVE
25	Quercus laurifolia	Laurel Oak	7	REMOVE
26	Prunus serotina	Black cherry	4	REMOVE
27	Prunus serotina	Black cherry	4	REMOVE
28	Prunus serotina	Black cherry	9	REMOVE
29	Prunus serotina	Black cherry	9	REMOVE
30	Prunus serotina	Black cherry	9	REMOVE
31	Prunus serotina	Black cherry	4	REMOVE
32	Quercus virginiana	Live Oak	43	REMOVE
33	Quercus virginiana	Live Oak	38	REMOVE
34	Quercus laurifolia	Laurel Oak	23	REMOVE
35	Quercus laurifolia	Laurel Oak	29	REMOVE
36	Quercus laurifolia	Laurel Oak	25	REMOVE
37	Quercus laurifolia	Laurel Oak	27	REMOVE
38	Quercus virginiana	Live Oak	21	REMOVE
39	Unidentified	Unidentified	13	REMOVE
40	Unidentified	Unidentified	11	REMOVE
41	Liquidambar styraciflua	Sweetgum	6	REMOVE
42	Quercus laurifolia	Laurel Oak	7	REMOVE
43	Liquidambar styraciflua	Sweetgum	12	REMOVE
44	Quercus laurifolia	Laurel Oak	5	REMOVE
45	Liquidambar styraciflua	Sweetgum	8	REMOVE
46	Quercus laurifolia	Laurel Oak	40	REMOVE
47	Quercus laurifolia	Laurel Oak	6	REMOVE
48	Quercus laurifolia	Laurel Oak	4	REMOVE
49	Liquidambar styraciflua	Sweetgum	5	REMOVE
50	Quercus laurifolia	Laurel Oak	29	REMOVE
51	Quercus laurifolia	Laurel Oak	5	REMOVE
52	Quercus laurifolia	Laurel Oak	22	REMOVE
53	Quercus laurifolia	Laurel Oak	29	REMOVE
54	Quercus laurifolia	Laurel Oak	4	REMOVE
55	Quercus laurifolia	Laurel Oak	4	REMOVE
56	Quercus virginiana	Live Oak	42	REMOVE
57	Quercus laurifolia	Laurel Oak	8	REMOVE
58	Quercus virginiana	Live Oak	38	REMOVE
59	Quercus laurifolia	Laurel Oak	29	REMOVE
60	Quercus virginiana	Live Oak	21	REMOVE
61	Liquidambar styraciflua	Sweetgum	6	REMOVE
62	Quercus laurifolia	Laurel Oak	5	REMAIN
63	Liquidambar styraciflua	Sweetgum	8	REMAIN
64	Quercus laurifolia	Laurel Oak	4	REMAIN
65	Quercus laurifolia	Laurel Oak	4	REMAIN
66	Quercus laurifolia	Laurel Oak	24	REMAIN
67	Quercus virginiana	Live Oak	28	REMAIN
68	Quercus virginiana	Live Oak	5	REMAIN
69	Quercus virginiana	Live Oak	22	REMAIN
70	Quercus virginiana	Live Oak	29	REMOVE
71	Quercus virginiana	Live Oak	30	REMAIN
72	Prunus serotina	Black cherry	4	REMAIN
73	Quercus laurifolia	Laurel Oak	4	REMOVE
74	Quercus laurifolia	Laurel Oak	5	REMOVE
75	Ilex opaca	American holly	5	REMAIN
76	Prunus serotina	Black cherry	19	REMAIN
77	Acer rubrum	Red maple	4	REMAIN
78	Acer rubrum	Red maple	4	REMAIN
79	Acer rubrum	Red maple	4	REMAIN
80	Lagerstroemia indica	Grape myrtle	5	REMAIN
81	Sabal palmetto	Sabal palm	15	REMAIN
82	Quercus virginiana	Live Oak	29	REMAIN
83	Quercus laurifolia	Laurel Oak	5	REMAIN
84	Quercus virginiana	Live Oak	38	REMAIN
85	Quercus virginiana	Live Oak	42	REMAIN
86	Liquidambar styraciflua	Sweetgum	10	REMAIN
87	Quercus laurifolia	Laurel Oak	16	REMAIN
88	Liquidambar styraciflua	Sweetgum	7	REMAIN
89	Liquidambar styraciflua	Sweetgum	7	REMAIN
90	Quercus laurifolia	Laurel Oak	7	REMAIN
91	Liquidambar styraciflua	Sweetgum	9	REMAIN
92	Quercus virginiana	Live Oak	44	REMAIN
93	Quercus virginiana	Live Oak	22	REMAIN
94	Quercus virginiana	Live Oak	49	REMAIN
95	Quercus virginiana	Live Oak	37	REMAIN
96	Quercus virginiana	Live Oak	32	REMAIN
97	Quercus virginiana	Live Oak	27	REMAIN
98	Quercus laurifolia	Laurel Oak	24	REMAIN
99	Lagerstroemia indica	Grape myrtle	9	REMAIN
100	Lagerstroemia indica	Grape myrtle	9	REMAIN
101	Lagerstroemia indica	Grape myrtle	9	REMAIN
102	Sabal palmetto	Sabal palm	17	REMAIN

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

PALM GARDEN OF GAINESVILLE  
PREPARED FOR  
FLORIDA CONVALESCENT CENTERS, INC.

SHEET NUMBER  
TM-100

OVERALL TREE  
MITIGATION PLAN

KHA PROJECT  
142350001  
DATE  
APRIL 2016  
SCALE  
AS SHOWN  
DESIGNED BY  
KHA  
DRAWN BY  
MED  
CHECKED BY  
COC  
DATE  
4/13/2016



**Kimley-Horn**  
© 2016 KIMLEY-HORN AND ASSOCIATES, INC.  
1823 S.E. FORT KING STREET, SUITE 200, OCALA, FL 34471  
PHONE: 352-438-3000  
WWW.KIMLEY-HORN.COM CA 0000896

REVISIONS  
No.  
DATE  
BY











Part 16 - Planting and Landscaping - 200 - April 13, 2016 09:57:26am K:\1644\_160\16020001 - palm gardens - 1644\_160\16020001.dwg - jacob.kimley@kimley-horn.com

PROPERTY LINE (TYP)

LIMIT OF WORK (TYP)

LS-201

## PLANT SCHEDULE

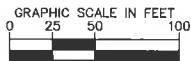
TREES								SHRUBS							
CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT	SPED	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE	
AF	5	ACER RUBRUM 'SUMMER RED'	SUMMER RED MAPLE	0.6 B	3" CAL MIN	10' HT MIN	4' MIN	CJ	72	CLEVERA JAPONICA	SAXAKI	7 GAL	36" OC	30" HT MIN	
BR	3	BETULA NIGRA	RIVER BIRCH	0.6 B	3" CAL MIN	10' HT MIN	4' MIN	LD	42	LIRIOPE MUSCARI 'BIG BLUE'	LILYTURF	1 GAL	18" OC	12" HT MIN	
CC	8	CERCIS CANADENSIS	EASTERN REDBUD	0.6 B	2" CAL GA	9' HT MIN	5' MIN	MC	222	MUELENBERGIA CAPILLARIS	PINK MUHLY	3 GAL	36" OC	24" FULL	
CV	15	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE	0.6 B	2" CAL GA	8' HT MIN	4' MIN	SR	75	SERENOA REPENS	SAW PALMETTO	7 GAL	48" OC	24" FULL	
IE	8	ILEX X ATTENUATA 'EAGLESTON'	EAGLESTON HOLLY	0.6 B	2" CAL GA	8' HT MIN	4' MIN	VO	188	VIBURNUM ODORATISSIMUM	SWEET VIBURNUM	7 GAL	48" OC	30" HT MIN	
LN	10	LAGERSTROEMIA X 'NATCHEZ'	GRAPE MYRTLE	0.6 B	3" CAL MIN	9' HT MIN	5' MIN	ZF	118	ZAMIA FLORIDANA	COONTIE	7 GAL	36" OC	18" FULL	
MG	4	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	0.6 B	3" CAL MIN	10' HT MIN	6' MIN								
ML	1	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	DWARF SOUTHERN MAGNOLIA	0.6 B	2" CAL MIN	8' HT MIN	22" MIN	AA	261	ANNUALS	ANNUALS	1 GAL	12" FULL	12" o.c.	
QF	5	QUERCUS FALCATA	SOUTHERN RED OAK	0.6 B	3" CAL MIN	10' HT MIN	6' MIN	RA	103	RHODODENDRON 'FORMOSA LAVENDER'	FORMOSA AZALEA	7 GAL	24" FULL	38" o.c.	
QV	7	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	0.6 B	3" CAL MIN	10' HT MIN	8' MIN								
SS	12	SABAL PALMETTO	CABBAGE PALMETTO	FG	HEAVY	10' - 18' CT VARIES									
TD	15	TAXODIUM DISTICHUM	DALD CYPRESS	0.6 B	3" CAL MIN	10' HT MIN	6' MIN								
UA	5	ULMUS ALATA	WINGED ELM	0.6 B	2" CAL MIN	10' HT MIN	4' MIN								

### NOTES:

1. 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.
2. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO FIELD ADJUST ALL PLANT MATERIAL.
3. ALL QUANTITIES PROVIDED FOR CONVENIENCE ONLY. CONTRACTOR SHALL CONFIRM ALL QUANTITIES PER PLAN PRIOR TO BIDDING AND CONSTRUCTION.
4. MULCH ALL DISTURBED AREAS WITH A THREE (3) INCH MINIMUM LAYER OF PINE BARK MULCH.
5. ALL PLANT MATERIAL SHALL BE GUARANTEED ONE YEAR AFTER ACCEPTANCE BY OWNER.
6. LANDSCAPE CONTRACTOR SHALL CALL PLANNING SERVICES AT (352) 393-4188 TO SCHEDULE AN ON-SITE MEETING PRIOR TO PURCHASING ANY PLANT MATERIAL.
7. ALL TREES IN SOD TO BE IN A (4) FOOT MINIMUM MULCHED RING AROUND THE NEWLY PLANTED TREES.
8. ALL TREES PLANTED IN SOD TO HAVE (6) INCH PLASTIC PROTECTOR AROUND TRUNK BASE TO PROTECT FROM MOWING DAMAGE.
9. TREES SHALL BE PLANTED SO THAT THE TRUNK FLAME IS EXPOSED AND TOPMOST ROOT IN THE ROOTBALL ORIGINATING FROM THE TRUNK IS AT SOIL SURFACE OR WITHIN THE TOP INCH OF SOIL ON THE ROOTBALL.
10. THE CITY SHALL REQUIRE THE ROOTBALL/CONTAINER SIZE OF THE TREE, WHICH TAKES PRECEDENCE OVER THE CALIPER SIZE OF THE TREE.
11. REMOVAL OF ALL CONSTRUCTION DEBRIS, LIMESTONE, EXCESS OF BUILDER'S SAND, CONCRETE AND MORTAR DEBRIS, EXISTING WEEDS AND GRASSES, AND ALL FOREIGN MATERIALS IN THE PLANTING BED AND SOD AREAS SHALL BE REMOVED AND 36" OF CLEAN FLORIDA FILL OF PH 5.5-6.5 SHALL BE INSTALLED PRIOR TO ANY INSTALLATION OF PLANTS OR TREES.
12. CALL PLANNING SERVICES AT (352) 393-4188 TO SCHEDULE A BARRICADE INSPECTION BEFORE CLEARING AND GRUBBING WORK COMMENCES.
13. TREES SHALL BE LOCATED A MINIMUM OF 7.5' AWAY FROM ANY UTILITY LINE, EXISTING OR PROPOSED.

### IRRIGATION NOTES:

1. AUTOMATIC IRRIGATION SYSTEM IS REQUIRED FOR THIS DEVELOPMENT. PROVIDE BUBBLERS AT EACH TREE TO BE INSTALLED PER NOT #5 BELOW.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY IRRIGATION OF ALL SOD AREAS THROUGH ESTABLISHMENT.
3. CONTRACTOR TO MODIFY / ADJUST EXISTING IRRIGATION SYSTEM OR INSTALL NEW SYSTEM COMPONENTS AS NECESSARY TO PROVIDE 100% HEAD TO HEAD COVERAGE OF ALL NEW PLANT MATERIAL AND MAINTAIN CURRENT IRRIGATION COVERAGE OF EXISTING MATERIAL TO REMAIN.
4. 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 GPM EMITTERS, 18" O.C. WITH 18" LINE SPACING AT A MINIMUM.
5. ALL TREES AND PALMS SHALL BE IRRIGATED WITH FLOOD BUBBLERS LOCATED ON 5' MINIMUM LENGTH FLEXIBLE PIPING FOR PLACEMENT AT EACH TREE. CANNOPY TREES SHALL RECEIVE TWO (2) 0.50 GPM FLOOD BUBBLERS PER TREE AND UNDERSTORY TREES / PALMS SHALL RECEIVE TWO (2) 0.25 GPM FLOOD BUBBLERS PER TREE.
6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL IRRIGATION COMPONENTS AND PROPOSED ZONE(S) INFORMATION TO OWNER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.



## LANDSCAPE CALCULATIONS

### STORMWATER LANDSCAPING PER SECTION 30.253.2.A.1

1 SHADE TREE / 35 LF OF BASIN PERIMETER  
REQUIRED: 642 LF / 35 = 23 TREES  
PROVIDED: 29 TREES (4 EXISTING)

### PERIMETER LANDSCAPING PER SECTION 30.252.1.E

SOUTH BUFFER: 370 LF, 8' WID TH  
REQUIRED: 8 SHADE TREES, 8 UNDERSTORY TREES, 75 SHRUBS  
PROVIDED: 8 SHADE TREES (5 EXISTING), 8 UNDERSTORY TREES, 75 SHRUBS

EAST BUFFER: 554 LF, 8' WID TH  
REQUIRED: 11 SHADE TREES, 11 UNDERSTORY TREES, 110 SHRUBS  
PROVIDED: EXISTING TREE BUFFER, 110 SHRUBS

### INTERIOR LANDSCAPING PER SECTION 30.252.2

1 TREE / LANDSCAPE ISLAND PROVIDED

### STREET LANDSCAPING PER SECTION 30.253

1 HIGH QUALITY SHADE TREE AT 30' - 50' O.C. PROVIDED

### PLANT SIZE SPECIFICATIONS PER SECTION 30.256.A.2

SHADE TREE: MINIMUM 7' HEIGHT, 2" CALIPER  
75% OF TREES SHALL BE NATIVE SPECIES

**Kimley»Horn**

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1823 S.E. FORT KING STREET, SUITE 200, OCALA, FL 34471  
PHONE: 352-438-3000  
WWW.KIMLEY-HORN.COM CA 0000699



KHA PROJECT  
142350001  
DATE  
APRIL 2016  
SCALE  
AS SHOWN  
DESIGNED BY  
KHA  
DRAWN BY  
MDD  
CHECKED BY  
COC  
DATE  
4/19/2016

## OVERALL LANDSCAPE PLAN

PALM GARDEN OF  
GAINESVILLE  
PREPARED FOR  
FLORIDA CONVALESCENT  
CENTERS, INC.  
GAINESVILLE, FLORIDA

SHEET NUMBER

LS-200

CALL 2 WORKING DAYS  
BEFORE YOU DIG

IT'S THE LAW!

DIAL 811



FLORIDA STATE ONE CALL OF FLORIDA, INC.















# SOLID STATE BOLLARDS

## BRA SERIES-LED

### SPECIFICATIONS

#### BOLLARD

Durable corrosion resistant extruded and cast aluminum construction. 1/4" wall thickness.

#### LED POWER ARRAY™

Three-dimensional array consisting of 6 individual LED tubes for the BDA8 model and 4 individual LED tubes for the BDA6 model, which are fastened to a retaining plate equally spaced to provide 360° of even illumination output. Each LED tube consists of a circuit board populated with a multiple of LED's which is fastened to a radial aluminum heat sink. A white polycarbonate lens and end caps protect each LED tube's internal components and provides diffusion to prevent shadowing and striations.

**INTERNAL LOUVER (IL)** - A specular louver stack conceals the inner LED Power Array Module and provides uplight and glare control through the external clear polycarbonate lens.

**CAST LOUVER (CL)** - External cast aluminum louver stack protects the internal LED Power Array Module and provides uplight and glare control. An internal clear polycarbonate lens is integrated with the LED Power Array Module.

**OPAL LENS (WP)** - Exterior white polycarbonate lens protects the internal LED Power Array Module and provides a uniform white glow.

#### RADIAL LED MODULE

LED'S are mounted to a circular heatsink in a radial array. The radial LED module is concealed in the cap of the bollard. LED's are not directly visible from angles above 90°.

**PARABOLIC REFLECTOR (TR)** - A specular Parabolic Reflector reflects a portion of the distribution from the radial LED module and provides a uniform wide angle throw through the outer clear polycarbonate lens.

#### LED EMITTERS

High Output LED's are driven at 350mA for nominal 1 Watt output each. 70CRI Minimum. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

#### LED DRIVER

UL and CUL recognized Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for (347-480VAC). Driver is mechanically fastened to a retaining bracket. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimmable and High-Low Driver options available.

#### FINISH

Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.

PROJECT NAME: \_\_\_\_\_

FIXTURE TYPE: \_\_\_\_\_

SB1: BRA6-IL-24LED-NW

SB2: BRA6-IL-24LED-NW-HS180

V2:



**BRA**

BRA8 SHOWN WITH -TR OPTICS

PATENT PENDING



BOLLARD	A	B	C	D
<b>BRA8</b>	42" 1067mm	8" 203mm	6" 152mm	8" 203mm
<b>BRA6</b>	42" 1067mm	6" 152mm	4" 102mm	6" 152mm



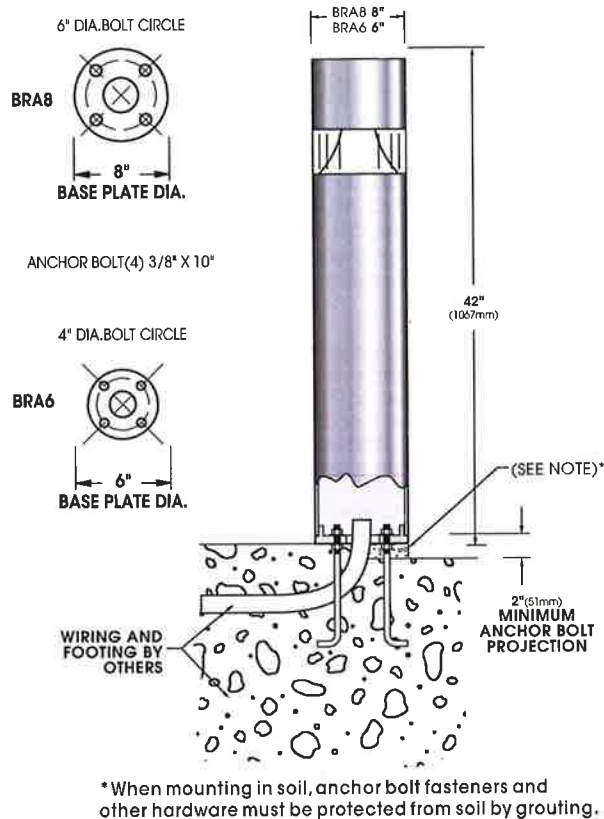
2015239



# BRA SERIES-LED

## SPECIFICATIONS

### INSTALLATION



### OPTICS

INTERNAL LOUVER  
SUPPLIED WITH  
CLEAR  
POLYCARBONATE  
LENS



IL

CAST LOUVER



CL

OPAL  
POLYCARBONATE

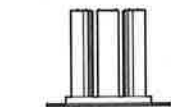


WA

PARABOLIC  
REFLECTOR



TR



VPA - Vertical Array  
BRA8 Available in:  
36 LED Max

BRA6 Available in:  
24 LED Max



RADIAL LED Module  
BRA8 Available in:  
18 LED Module

BRA6 Available in:  
12 LED Module

Spec/Order Example: BRA6-TR/12LED120WW/RAL-8019-T/HLSW

## ORDERING INFORMATION

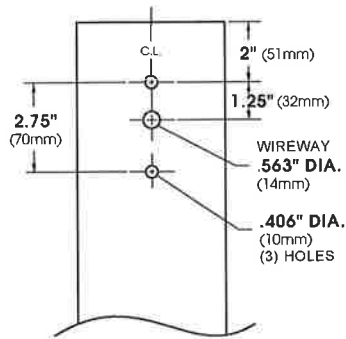
BOLLARD	OPTICS	# of LED's	COLOR	VOLTAGE	MOUNTING	FINISH	OPTIONS
BOLLARD	OPTICS	LED			MOUNTING	FINISH	OPTIONS
<input type="checkbox"/> BRA8-LED  <input type="checkbox"/> BRA6-LED	VERTICAL POWER ARRAY	# of LEDs	COLOR		<input type="checkbox"/> GROUND INSTALLATION . . . . . (STANDARD)  <input type="checkbox"/> WALL MOUNT WM . . . . .	STANDARD TEXTURED FINISH	<input type="checkbox"/> DIMMABLE DRIVER (0-10V PROVIDED) . . . . . DIM  <input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NONINTEGRATED MOTION SENSOR . . . . . HLSW  <input type="checkbox"/> INTERNAL HOUSE SIDE SHIELD . . . HS  <input type="checkbox"/> DUPLEX RECEPTACLE . . . . . DUP  <input type="checkbox"/> GROUND FAULT RECEPTACLE . . . . . GFI  <input type="checkbox"/> 10KV SURGE PROTECTOR . . . . . 10SP  <input type="checkbox"/> 20KV SURGE PROTECTOR (277V & 480V Only) . . . . . 20SP
	<input type="checkbox"/> INTERNAL LOUVER . . . . . IL	<input type="checkbox"/> 36LED <sup>1</sup> (42 Watts)	<input type="checkbox"/> NW (4000K) Standard			<input type="checkbox"/> BLACK RAL-9005-T	
	<input type="checkbox"/> CAST LOUVER . . . . . CL	<input type="checkbox"/> 24LED (28 Watts)	<input type="checkbox"/> CW (5000K)			<input type="checkbox"/> WHITE RAL-9003-T	
	<input type="checkbox"/> OPAL POLYCARBONATE . . . . . WP*		<input type="checkbox"/> WW (3000K)	OTHER LED COLORS AVAILABLE CONSULT FACTORY		<input type="checkbox"/> GREY RAL-7004-T	
	RADIAL LED MODULE		VOLTAGE		SB2 ONLY	<input type="checkbox"/> DARK BRONZE RAL-8019-T	<input type="checkbox"/> SB2 ONLY
	<input type="checkbox"/> PARABOLIC REFLECTOR . . . . . TR	<input type="checkbox"/> 18LED <sup>1</sup> (21 Watts)	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480			<input type="checkbox"/> GREEN RAL-6005-T	
		<input type="checkbox"/> 12LED <sup>2</sup> (15 Watts)				FOR SMOOTH FINISH REPLACE SUFFIX "T" WITH SUFFIX "S" (EXAMPLE: RAL-9500-S)	
		NOTES: 1 - AVAILABLE IN BRA8 ONLY. 2 - AVAILABLE IN BRA6 ONLY.				SEE USALTG.COM FOR ADDITIONAL COLORS	OPTIONAL HEIGHTS:  <input type="checkbox"/> 30"  <input type="checkbox"/> 36"
	*WP OPTICS USE OPAL POLYCARBONATE LENS						



# LUM SERIES - PLED

## SPECIFICATIONS

### POLE DRILLING TEMPLATE

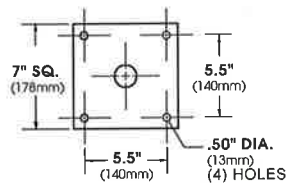


### WALL MOUNT



EXTRUDED ALUMINUM ARM AND CAST ALUMINUM WALL BRACKET ASSEMBLY PROVIDED WITH BUILT IN GASKETED WIRE ACCESS FOR FIXTURE/SUPPLY WIRE CONNECTION.

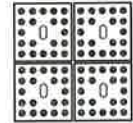
### WALL PLATE



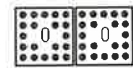
### PLED™ MODULES



**LUM PLED**  
E.P.A. = 1.12  
Available in:  
80 & 40 LED Array



80 LED Array



40 LED Array

No. of LEDs	Drive Current	System Watts	HID Equivalent
40	350mA	45	70 - 100
	525mA	66	100 - 150
	700mA	91	175
	1050mA	142	200 - 250
80	350mA	92	150 - 175
	525mA	136	200 - 250
	700mA	184	400

Spec/Order Example: LUM-LED/PLED-V-SQ/80LED-700mA/NW/277/1/RAL9005

## SPEC / ORDERING INFORMATION

MODEL	OPTICS	LED		MOUNTING	FINISH	OPTIONS	
PLED™ DISTRIBUTION		No. LEDs	DRIVE CURRENT	COLOR TEMP-CCT	ARM MOUNT	STANDARD TEXTURED FINISH	
<input type="checkbox"/> LUM LED	<input type="checkbox"/> TYPE II PLED-II .....	<input type="checkbox"/> 80LED¹	<input type="checkbox"/> 1050mA	<input type="checkbox"/> NW (4000K)* *STANDARD	<input type="checkbox"/> 1-.....	<input type="checkbox"/> BLACK RAL-9005-T	<input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NONINTEGRATED MOTION SENSOR ..... HLSW
	<input type="checkbox"/> TYPE II FRONT ROW PLED-II-FR .....	<input type="checkbox"/> 40LED	<input type="checkbox"/> 700mA	<input type="checkbox"/> CW (5000K)	<input type="checkbox"/> 2-180 .....	<input type="checkbox"/> WHITE RAL-9003-T	<input type="checkbox"/> INTERNAL HOUSE SIDE SHIELD ... HS-PLED
	<input type="checkbox"/> TYPE II MEDIAN ILLUMINATOR PLED-II-ML .....		<input type="checkbox"/> 525mA	<input type="checkbox"/> WW (3000K)	<input type="checkbox"/> 2-90 .....	<input type="checkbox"/> GREY RAL-7004-T	<input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) .. PC+V
	<input type="checkbox"/> TYPE III PLED-III .....		<input type="checkbox"/> 350mA	OTHER LED COLORS AVAILABLE CONSULT FACTORY	<input type="checkbox"/> 3-120 .....	<input type="checkbox"/> DARK BRONZE RAL-8019-T	<input type="checkbox"/> TWIST LOCK PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) .. TPC+V
	<input type="checkbox"/> TYPE IV PLED-IV .....				<input type="checkbox"/> 3-90 .....	<input type="checkbox"/> GREEN RAL-6005-T	<input type="checkbox"/> TWIST LOCK RECEPTACLE ONLY ... TPR
	<input type="checkbox"/> TYPE IV PLED-IV-FT .....				<input type="checkbox"/> 4-90 .....		<input type="checkbox"/> SINGLE FUSE (120V, 277V) ..... SF
	<input type="checkbox"/> TYPE V NARROW PLED-VSQ-N .....				<input type="checkbox"/> NKLE27.....		<input type="checkbox"/> DOUBLE FUSE (208V, 240V, 480V) .... DF
	<input type="checkbox"/> TYPE V PLED-V-SQ-M .....				<input type="checkbox"/> NKLE23.....		
	<input type="checkbox"/> TYPE V PLED-V-SQ-W .....				<input type="checkbox"/> UNIVERSAL POLE ADAPTOR ..... UPA		
					<b>WALL MOUNT</b>		
					<input type="checkbox"/> WM .....		
						FOR SMOOTH FINISH REPLACE SUFFIX "T" WITH SUFFIX "S" (EXAMPLE: RAL-9005-S)	
						SEE USALTG.COM FOR ADDITIONAL COLORS	



# LUM SERIES - PLED

## LAMP/ELECTRICAL GUIDE

LED COUNT	SOURCE TYPE	SOURCE	INITIAL LUMENS - 4000K	INITIAL LUMENS - 3000K	INITIAL LUMENS - 5000K	L70 GREATER THAN (HR)	STARTING TEMP.	SYSTEM WATTS	VOLTS	MAX INPUT AMPS
40	LED	40 PLED* Optical Module - 350mA	5,077 - 5,464	4,445 - 4,784	5,199 - 5,595	60,000+	-20°F	45	120 277	0.38 0.17
40	LED	40 PLED* Optical Module - 525mA	6,977 - 7,507	6,108 - 6,573	7,144 - 7,687	60,000+	-20°F	66	120 277	0.58 0.25
40	LED	40 PLED* Optical Module - 700mA	8,425 - 9,067	7,376 - 7,938	8,627 - 9,285	60,000+	-20°F	91	120 277	0.76 0.33
40	LED	40 PLED* Optical Module - 1050mA	10,956 - 11,792	9,592 - 10,324	11,219 - 12,075	60,000+	-20°F	142	120 277	1.19 0.52
80	LED	80 PLED* Optical Module - 350mA	10,153 - 10,926	8,889 - 9,566	10,397 - 11,188	60,000+	-20°F	92	120 277	0.77 0.34
80	LED	80 PLED* Optical Module - 525mA	13,952 - 15,015	12,215 - 13,146	14,287 - 15,376	60,000+	-20°F	136	120 277	1.14 0.50
80	LED	80 PLED* Optical Module - 700mA	16,851 - 18,139	14,752 - 15,877	17,254 - 18,570	60,000+	-20°F	184	120 277	1.54 0.67

### NOTES:

1. Max Input Amps is the highest of starting, operating, or open circuit currents
2. Lumen values for LED Modules vary according to the distribution type
3. System Watts includes the source watts and all driver components.
4. Fuse value should be sufficient to protect all wiring components. For electronic driver and LED component protection, use 10KV - 20KV surge suppressors.
5. L70(9K) - TM-21 6x rule applied

**WARNING:** All fixtures must be installed in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.



# SOLID STATE AREA LIGHTING

## COLONIAL SERIES-LED

### SPECIFICATIONS

#### HOUSING

Durable, corrosion resistant, heavy cast low copper aluminum assembly (A356 alloy, <0.2% copper). Minimum wall thickness is .188". Traditional styling of the housing provided with cast aluminum housing top hinges for easy access. All hardware is stainless steel.

#### ✓LED® OPTICAL MODULE (Dark Sky Compliant-Full Cutoff)

Low copper A356 alloy (<0.2% copper) cast aluminum housing. Integrated clear tempered 3/16" glass lens sealed with a continuous silicone gasket protects emitters (LED's) and emitter Reflector-Prism optics, and seals the module from water intrusion and environmental contaminants. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Each emitter is optically controlled by a Reflector-Prism injection molded from H12 acrylic (3 types per module; one from 0° - 50°; one from 50° - 65°; one from 65° - 72°). Each Reflector-Prism has indexing pins for aiming and is secured to an optical plate made of matte black anodized aluminum. The optical plate locates every Reflector-Prism over an emitter. Reflector-Prisms are secured to the optical plate with a UV curing adhesive. The Reflector-Prisms are arrayed to produce IES Type II, III, IV, and V-SQ distributions. The entire ✓LED® Optical Module is field rotatable in 90° increments. Both module and drivers are factory wired using water resistant, insulated cord. Lens, module and drivers are field replaceable.

#### LED EMITTERS

High Output LED's are driven at 350mA for nominal 1 Watt output each or 525mA (COL21 and COL18 only) for nominal 1.5 Watt output each. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

#### LED DRIVER

UL and CUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for 347-480VAC. Driver is mechanically fastened to a retaining bracket. Main power quick disconnect provided. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimming and High-Low Driver options available.

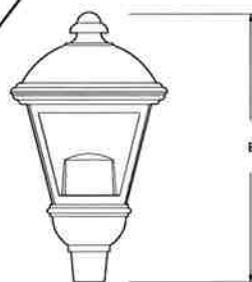
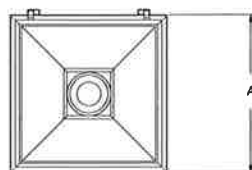
#### FINISH

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Texture finish is standard.

PROJECT NAME: Palm Garden - Gainesville

FIXTURE TYPE: SP1

COL18-LED-V-SQ-64LED-PT-DB-10SP



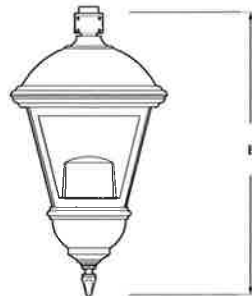
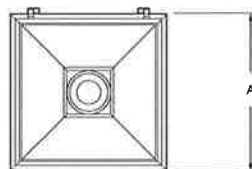
COL



PATENT PENDING

Filter supplied to fit over 2 7/8" X 3" (73mm X 76mm) lenson.

FIXTURE	A	B
COL21-LED	21" 533mm	35" 889mm
COL18-LED	18" 457mm	31" 787mm
COL12-LED	12" 305mm	22" 559mm



COL-PM-LED



PATENT PENDING

FIXTURE	A	B
COL21-PM-LED	21" 533mm	36" 914mm
COL18-PM-LED	18" 457mm	32.5" 826mm
COL12-PM-LED	12" 305mm	24" 610mm



2013352

Sun Valley Lighting

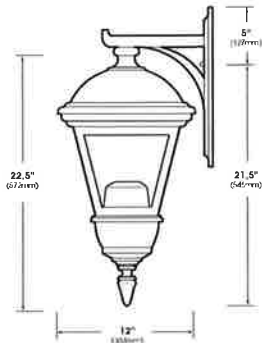
660 West Avenue O, Palmdale, CA 93551  
Phone (661) 233-2000 Fax (661) 233-2001  
www.sunvalley.com

SUN VALLEY  
LIGHTING

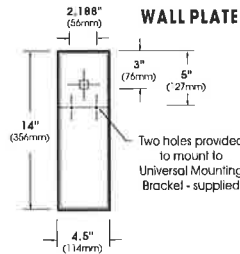
# COLONIAL SERIES - LED

## SPECIFICATIONS

### WALL MOUNT



(COL12-WM shown)



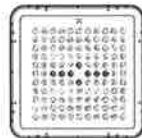
ARM BRACKET EXTRUDED AND CAST ALUMINUM CONSTRUCTION.

### VLED® MODULES



**COL21-LED**  
COL21 E.P.A.= 2.03  
COL21-PM E.P.A.= 1.93

Available in:  
120, 100, 80, & 64  
LED Module

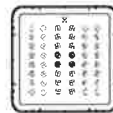


120 LED Module



**COL18-LED**  
COL18 E.P.A.= 1.60  
COL18-PM E.P.A.= 1.55

Available in:  
64 & 48 LED Module

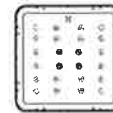


64 LED Module



**COL12-LED**  
COL12 E.P.A.= 0.90  
COL12-PM E.P.A.= 0.81

Available in:  
24 LED Module



24 LED Module

### MAX INPUT WATTAGE

# OF LED's	DRIVE CURRENT 350mA	525mA
120	130W	192W
100	110W	164W
80	85W	126W
64	69W	103W
48	55W	76W
24	26W	-

Spec/Order Example: COL21 / VLED-VSQ / 120LED CW / 3-90 / RAL7004 / DF

## SPEC / ORDERING INFORMATION

LUMINAIRE	OPTICS	# of LED's	DRIVE CURRENT	COLOR TEMP - CCT	MOUNTING	FINISH	OPTIONS
LUMINAIRE	OPTICS	LED	MOUNTING	FINISH	OPTIONS		
<div><input type="checkbox"/> COL21-LED</div> <div><input type="checkbox"/> COL21-PM-LED</div> <div><input type="checkbox"/> COL18-LED</div> <div><input type="checkbox"/> COL18-PM-LED</div>	<div><input type="checkbox"/> TYPE - II VLED - II</div> <div><input type="checkbox"/> TYPE - III VLED - III</div> <div><input type="checkbox"/> TYPE - IV VLED - IV</div> <div><input type="checkbox"/> TYPE - V-SQ VLED - VSQ</div> <div><input type="checkbox"/> TYPE - ASYMMETRIC VLED - ASY</div> <div><input type="checkbox"/> TYPE - SYMMETRIC VLED - SYM</div>	<div><div>COL21</div><div><input type="checkbox"/> 120LED (132 Watts)</div><div><input type="checkbox"/> 100LED (110 Watts)</div><div><input type="checkbox"/> 80LED (89 Watts)</div><div><input type="checkbox"/> 64LED (72 Watts)</div></div> <div><div>COL18</div><div><input type="checkbox"/> 64LED (72 Watts)</div><div><input type="checkbox"/> 48LED (53 Watts)</div></div> <div><div>COL12</div><div><input type="checkbox"/> 24LED<sup>1</sup> (26 Watts)</div></div> <div>NOTES: 1 - 350mA ONLY</div>	<div><div><input type="checkbox"/> 350mA</div><div><input type="checkbox"/> 525mA</div></div> <div><div><input type="checkbox"/> NW (4000K)*</div><div>* STANDARD</div><div><input type="checkbox"/> CW (5000K)</div><div><input type="checkbox"/> WW (3000K)</div></div> <div>OTHER LED COLORS AVAILABLE CONSULT FACTORY</div> <div>VOLTAGE</div> <div><div><input type="checkbox"/> 120</div><div><input type="checkbox"/> 208</div><div><input type="checkbox"/> 240</div><div><input type="checkbox"/> 277</div><div><input type="checkbox"/> 347</div><div><input type="checkbox"/> 480</div></div>	<div><div><input type="checkbox"/> 1</div><div><input type="checkbox"/> 2-180</div><div><input type="checkbox"/> 2-90</div><div><input type="checkbox"/> 3-90</div><div><input type="checkbox"/> 3-120</div><div><input type="checkbox"/> 4-90</div></div> <div><div>WALL MOUNT</div><div>Refer to Sun Valley Lighting binder or website section - Arms/Wall Brackets</div><div><input type="checkbox"/> WM</div><div>POST TOP</div><div><input type="checkbox"/> PT</div></div>	<div><div><input type="checkbox"/> BLACK RAL-9005-T</div><div><input type="checkbox"/> WHITE RAL-9003-T</div><div><input type="checkbox"/> GREY RAL-7004-T</div><div><input type="checkbox"/> DARK BRONZE RAL-8019-T</div><div><input type="checkbox"/> GREEN RAL-6005-T</div></div> <div>FOR SMOOTH FINISH REMOVE SUFFIX "T" (EXAMPLE: RAL-9500)</div> <div>SEE US.ATLG.COM FOR ADDITIONAL COLORS</div>	<div><div><input type="checkbox"/> INTERNAL HOUSE SIDE SHIELD</div><div><input type="checkbox"/> DIMMABLE DRIVER(S) (0-10V)</div><div><input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NON-INTEGRATED MOTION SENSOR</div><div><input type="checkbox"/> 10KV SURGE PROTECTOR</div><div><input type="checkbox"/> 20KV SURGE PROTECTOR (277V &amp; 480V Only)</div><div><input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V)</div><div><input type="checkbox"/> TWIST LOCK PHOTOCELL +VOLTAGE</div><div><input type="checkbox"/> TWIST LOCK PHOTOCELL RECEPTACLE ONLY</div><div><input type="checkbox"/> DOUBLE FUSE (208V, 240V)</div></div> <div><div>HS</div><div>DIM</div><div>HLSW</div><div>10SP</div><div>20SP</div><div>PC+V</div><div>TPC+V (COL21 &amp; COL18 Only)</div><div>TPR (COL21 &amp; COL18 Only)</div><div>DF</div></div>	



# SOLID STATE AREA LIGHTING

## COLONIAL-WA SERIES-LED

### SPECIFICATIONS

#### LUMINAIRE

Four piece opal white acrylic lenses provided with heavy cast low copper aluminum corrosion resistant (A356 alloy, <0.2% copper) traditionally styled housing and top. Minimum wall thickness is .188". Top hinges for easy access. Silicone gasket between housing and hood. All hardware is stainless steel.

#### LED POWER ARRAY™

Three-dimensional array of individual LED Tubes fastened to a retaining plate. Each LED Tube consists of circuit board populated with a multiple of LED's and is mechanically fastened to a radial aluminum heat sink. An acrylic Lens and end cap protects each LED Tube's internal components.

**VERTICAL POWER ARRAY™:** LED Tubes are aligned vertically and equally arranged radially to produce an even raw light distribution that simulates standard light sources. Produces a minimal glare, symmetric diffuse light distribution. Used in conjunction with an opal smooth acrylic diffusing lens.

#### LED EMITTERS

High Output LED's are driven at 350mA for nominal 1 Watt output each. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

#### LED DRIVER

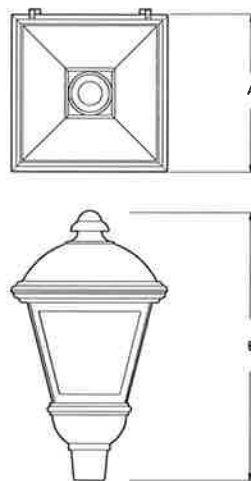
UL and CUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for 347-480VAC. Driver is mechanically fastened to a retaining bracket. Main power quick disconnect provided. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimming and High-Low Driver options available.

#### FINISH

Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.

PROJECT NAME: \_\_\_\_\_

FIXTURE TYPE: \_\_\_\_\_

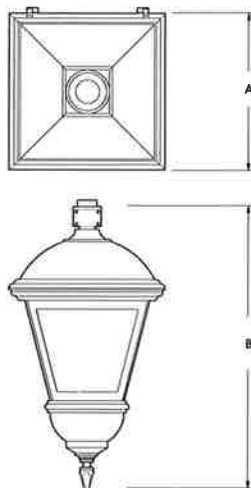


**COL-WA-LED**

PATENT PENDING

Filter supplied to fit over 2 1/4" X 3" (73mm X 76mm) lenson.

FIXTURE	A	B
COL21-WA-LED	21" 533mm	35" 889mm
COL18-WA-LED	18" 457mm	31" 787mm
COL12-WA-LED	12" 305mm	22" 559mm



**COL-WA-PM-LED**

PATENT PENDING

FIXTURE	A	B
COL21-PM-WA-LED	21" 533mm	36" 914mm
COL18-PM-WA-LED	18" 457mm	32.5" 826mm
COL12-PM-WA-LED	12" 305mm	24" 610mm



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Sun Valley Lighting

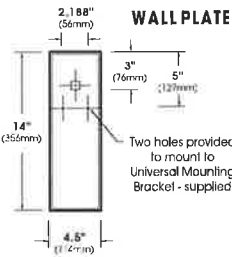
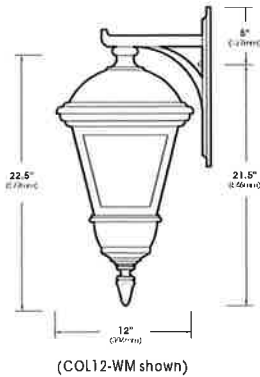
660 West Avenue O, Palmdale, CA 93551  
Phone (661) 233-2000 Fax (661) 233-2001  
www.usallg.com

**SUN VALLEY**  
LIGHTING

# COLONIAL-WA SERIES - LED

## SPECIFICATIONS

### WALL MOUNT



ARM BRACKET EXTRUDED AND CAST ALUMINUM CONSTRUCTION.

### LED POWER ARRAY™ MODULES



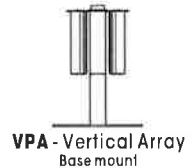
**COL21-WA-LED**  
COL21 E.P.A.= 3.02  
COL21-PM E.P.A.= 2.93  
ANGLED POWER ARRAY  
80 LED Max.



**COL18-WA-LED**  
COL18 E.P.A.= 2.35  
COL18-PM E.P.A.= 2.30  
ANGLED POWER ARRAY  
64 LED Max.



**COL12-WA-LED**  
COL12 E.P.A.= 1.12  
COL12-PM E.P.A.= 1.13  
VERTICAL ARRAY  
24 LED Max.



Spec/Order Example: COL12-WA/VP-V/64LED NW/2-180/RAL8019/TPR

## SPEC / ORDERING INFORMATION

LUMINAIRE	OPTICS	# of LED's	COLOR	VOLTAGE	MOUNTING	FINISH	OPTIONS
LUMINAIRE	OPTICS	LED	MOUNTING	FINISH	OPTIONS		
<input type="checkbox"/> COL21-WA-LED <input type="checkbox"/> COL21-PM-WA-LED  <input type="checkbox"/> COL18-WA-LED <input type="checkbox"/> COL18-PM-WA-LED  <input type="checkbox"/> COL12-WA-LED <input type="checkbox"/> COL12-PM-WA-LED	<input type="checkbox"/> Type - ASYMMETRIC VPA-SYM	<b>COL21-WA</b> <input type="checkbox"/> 80LED (89 Watts) <input type="checkbox"/> 64LED (69 Watts) <input type="checkbox"/> 48LED (55 Watts) <input type="checkbox"/> 36LED (40 Watts)  <b>COL18-WA</b> <input type="checkbox"/> 64LED (69 Watts) <input type="checkbox"/> 48LED (53 Watts) <input type="checkbox"/> 36LED (40 Watts)  <b>COL12-WA</b> <input type="checkbox"/> 24LED (26 Watts) <input type="checkbox"/> 12LED (14 Watts)	<input type="checkbox"/> NW (4000K)* *STANDARD <input type="checkbox"/> CW (5000K) <input type="checkbox"/> WW (3000K) OTHER LED COLORS AVAILABLE CONSULT FACTORY	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480	<b>ARM MOUNT</b> <input type="checkbox"/> 1 ..... <input type="checkbox"/> 2-180 ..... <input type="checkbox"/> 2-90 ..... <input type="checkbox"/> 3-90 ..... <input type="checkbox"/> 3-120 ..... <input type="checkbox"/> 4-90 .....  <b>WALL MOUNT</b> Refer to Sun Valley Lighting binder or website section - Arms/Wall Brackets <input type="checkbox"/> WM .....  <b>POST TOP</b> <input type="checkbox"/> PT .....	<b>STANDARD TEXTURED FINISH</b> <input type="checkbox"/> BLACK RAL-9005-T <input type="checkbox"/> WHITE RAL-9003-T <input type="checkbox"/> GREY RAL-7004-T <input type="checkbox"/> DARK BRONZE RAL-8019-T <input type="checkbox"/> GREEN RAL-6005-T  FOR SMOOTH FINISH REMOVE SUFFIX "T" (EXAMPLE: RAL-9500)  SEE USALITG.COM FOR ADDITIONAL COLORS	<input type="checkbox"/> HOUSE SIDE SHIELD... HS <input type="checkbox"/> DIMMABLE DRIVER(S) (0-10V)... DIM <input type="checkbox"/> HIGH/LOW DIMMING FOR HARDWIRED SWITCHING OR NON-INTEGRATED MOTION SENSOR... HLSW <input type="checkbox"/> 10KV SURGE PROTECTOR... 10SP <input type="checkbox"/> 20KV SURGE PROTECTOR (277V & 480V Only)... 20SP <input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V)... PC+V <input type="checkbox"/> TWIST LOCK PHOTOCELL +VOLTAGE... TPC+V (COL21 & COL18 Only) <input type="checkbox"/> TWIST LOCK PHOTOCELL RECEPTACLE ONLY... TPR <input type="checkbox"/> SINGLE FUSE (120V, 277V)... SF <input type="checkbox"/> DOUBLE FUSE (208V, 240V)... DF <input type="checkbox"/> OPAL POLYCARBONATE DIFFUSER... WP



# SOLID STATE AREA LIGHTING

## COLONIAL-CPA SERIES-LED

### SPECIFICATIONS

#### LUMINAIRE

Four piece clear patterned acrylic lenses provided with heavy cast corrosion resistant low copper aluminum (A356 alloy, <0.2% copper) traditionally styled housing and top. Minimum wall thickness is .188". Top hinges for easy access. Silicone gasket between housing and hood. All hardware is stainless steel.

#### LED POWER ARRAY™

Three-dimensional array of individual LED Tubes fastened to a retaining plate. Each LED Tube consists of circuit board populated with a multiple of LED's and is mechanically fastened to a radial aluminum heat sink. An acrylic Lens and end cap protects each LED Tube's internal components.

**ANGLED POWER ARRAY™:** Micro-Reflectors mounted around each LED control the raw light output. LED Tubes are uniquely aimed horizontally and vertically and arrayed to produce highly efficient IES Distribution Types II, III, IV and V. Used in conjunction with a clear patterned acrylic lens.

**VERTICAL POWER ARRAY™ WITH GLASS REFRACTOR:** LED Tubes are aligned vertically and equally arranged radially to produce an even raw light distribution that simulates standard light sources. Array is secured within a 6" Prismatic Glass Refractor which provides the optical control. Used in conjunction with clear smooth or clear patterned lenses.

**VERTICAL POWER ARRAY™:** LED Tubes are aligned vertically and equally arranged radially to produce an even raw light distribution that simulates standard light sources. Produces a minimal glare, symmetric diffuse light distribution. Used in conjunction with a clear patterned acrylic.

#### LED EMITTERS

High Output LED's are driven at 350mA for nominal 1 Watt output each. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

#### LED DRIVER

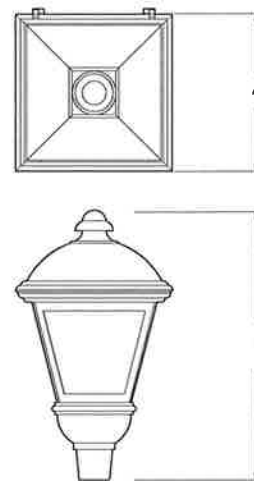
UL and CUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for 347-480VAC. Driver is mechanically fastened to a retaining bracket. Main power quick disconnect provided. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimming and High-Low Driver options available.

#### FINISH

Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.

PROJECT NAME: \_\_\_\_\_

FIXTURE TYPE: \_\_\_\_\_

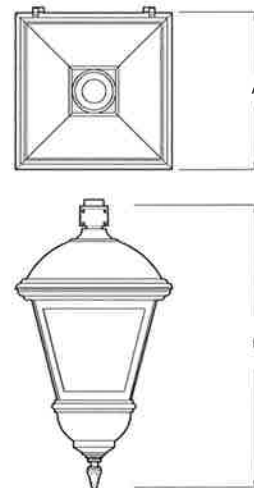


**COL-CPA-LED**

PATENT PENDING

Filter supplied to fit over 2 7/8" X 3" (73mm X 76mm) fennon.

FIXTURE	A	B
COL21-CPA-LED	21" 533mm	35" 889mm
COL18-CPA-LED	18" 457mm	31" 787mm
COL12-CPA-LED	12" 305mm	22" 559mm



**COL-PM-CPA-LED**

PATENT PENDING

FIXTURE	A	B
COL21-PM-CPA-LED	21" 533mm	36" 914mm
COL18-PM-CPA-LED	18" 457mm	32.5" 826mm
COL12-PM-CPA-LED	12" 305mm	24" 610mm

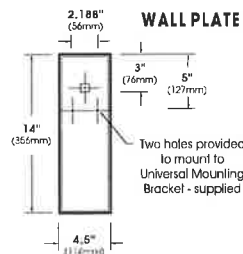
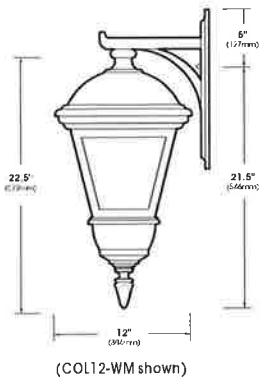


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# COLONIAL-CPA SERIES - LED

## SPECIFICATIONS

### WALL MOUNT



ARM BRACKET EXTRUDED AND CAST ALUMINUM CONSTRUCTION.

### LED POWER ARRAY™ MODULES



**COL21-CPA-LED**  
COL21 E.P.A.= 3.02  
COL21-PME.P.A.= 2.93

**ANGLED POWER ARRAY**  
80 LED Max.

**GLASS REFRACTOR w/  
VERTICAL ARRAY**  
36 LED Max.



**COL18-CPA-LED**  
COL18 E.P.A.= 2.35  
COL18-PME.P.A.= 2.30

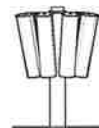
**ANGLED POWER ARRAY**  
48 LED Max.

**GLASS REFRACTOR w/  
VERTICAL ARRAY**  
36 LED Max.



**COL12-CPA-LED**  
COL12 E.P.A.= 1.12  
COL12-PME.P.A.= 1.13

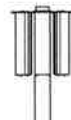
**VERTICAL ARRAY**  
Available in:  
6 Array 24 LED Max.



**APA - Angled Array**  
Base mount  
(COL21 and COL18 only)



**GRV - Glass Refractor  
w/ Vertical Array**  
Base mount  
(COL21 and COL18 only)



**VPA - Vertical Array**  
Base mount  
(COL12 only)

Spec/Order Example: COL21-CPA/GRV-III/180 LED CW/3-120/RAL8009/SF

## SPEC / ORDERING INFORMATION

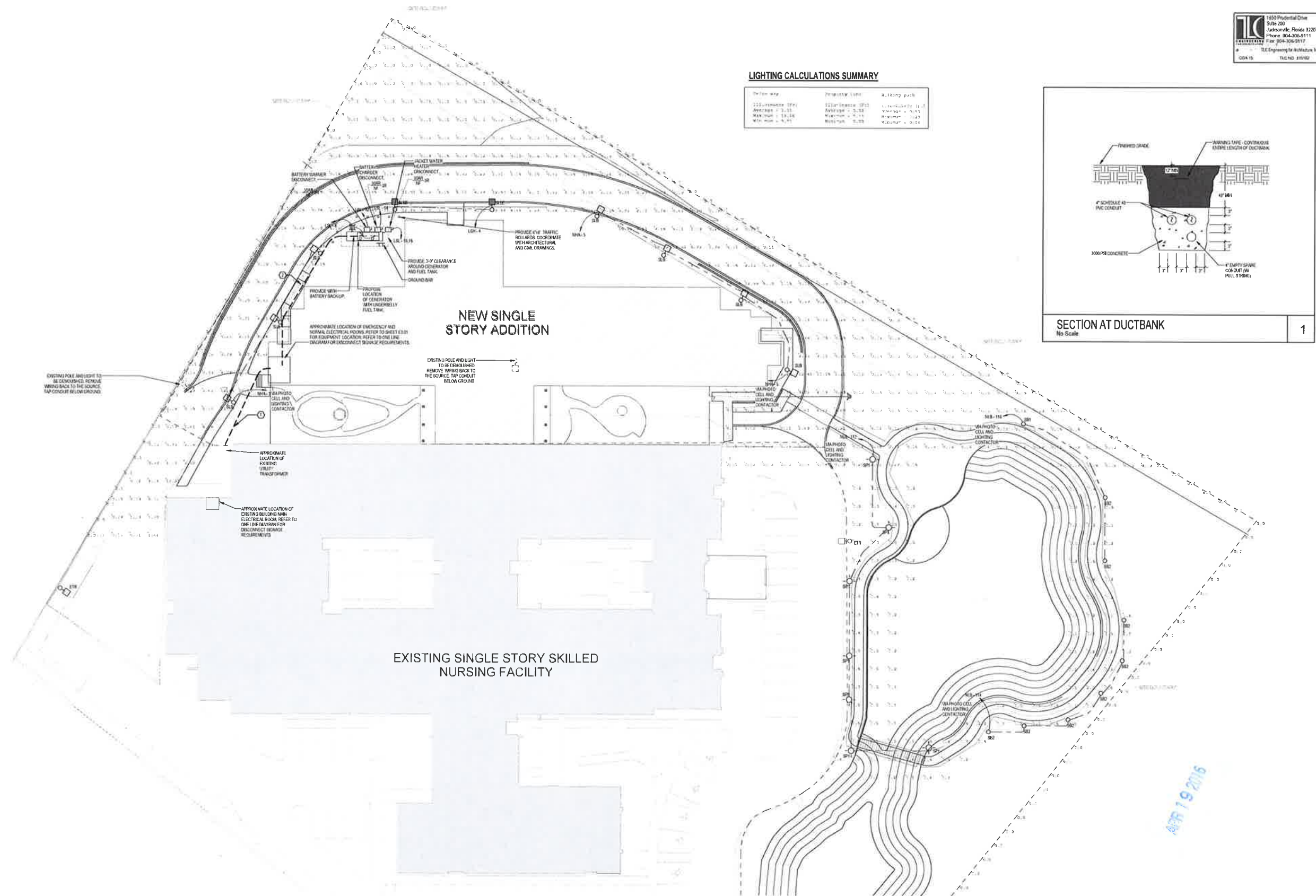
LUMINAIRE	OPTICS	# of LED's	COLOR	VOLTAGE	MOUNTING	FINISH	OPTIONS
LUMINAIRE	OPTICS	LED			MOUNTING	FINISH	OPTIONS
<input type="checkbox"/> COL21-CPA-LED <input type="checkbox"/> COL21-PM-CPA-LED  <input type="checkbox"/> COL18-CPA-LED <input type="checkbox"/> COL18-PM-CPA-LED	<b>ANGLED POWER ARRAY</b>  <input type="checkbox"/> TYPE - II APA - II ..... <input type="checkbox"/> TYPE - III APA - III ..... <input type="checkbox"/> TYPE - IV APA - IV ..... <input type="checkbox"/> TYPE - V APA - V .....  <b>GLASS REFRACTOR</b>  <input type="checkbox"/> TYPE - III GRV - III ..... <input type="checkbox"/> TYPE - V GRV - V .....  <b>VERTICAL POWER ARRAY</b>  <input type="checkbox"/> TYPE - SYMMETRIC VPA-SYM* .....  <small>*NOTE: For Asymmetric distribution, use VPA-SYM with house side shield option.</small>	<b>COL21-CPA</b> <input type="checkbox"/> 80LED <sup>1</sup> (89 Watts) <input type="checkbox"/> 60LED <sup>1</sup> (67 Watts) <input type="checkbox"/> 40LED <sup>1</sup> (45 Watts) <input type="checkbox"/> 36LED <sup>2</sup> (40 Watts) <input type="checkbox"/> 24LED <sup>2</sup> (26 Watts)  <b>COL18-CPA</b> <input type="checkbox"/> 48LED <sup>1</sup> (53 Watts) <input type="checkbox"/> 36LED <sup>2</sup> (40 Watts) <input type="checkbox"/> 32LED <sup>1</sup> (35 Watts) <input type="checkbox"/> 24LED <sup>2</sup> (26 Watts)  <b>COL12-CPA</b> <input type="checkbox"/> 24LED (26 Watts) <input type="checkbox"/> 12LED (14 Watts)	<b>COLOR TEMP - CCT</b> <input type="checkbox"/> NW (4000K)* *STANDARD <input type="checkbox"/> CW (5000K) <input type="checkbox"/> WW (3000K)  OTHER LED COLORS AVAILABLE CONSULT FACTORY  <b>NOTES:</b> 1 - ANGLED POWER ARRAY ONLY 2 - GLASS REFRACTOR ONLY	<b>VOLTAGE</b> <input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480	<b>ARM MOUNT</b>  <input type="checkbox"/> 1 .....  <input type="checkbox"/> 2-180 .....  <input type="checkbox"/> 2-90 .....  <input type="checkbox"/> 3-90 .....  <input type="checkbox"/> 3-120 .....  <input type="checkbox"/> 4-90 .....  <b>WALL MOUNT</b> Refer to Sun Valley Lighting binder or website section - Arms/Wall Brackets  <input type="checkbox"/> WM .....  <b>POST TOP</b>  <input type="checkbox"/> PT .....	<b>STANDARD TEXTURED FINISH</b>  <input type="checkbox"/> BLACK RAL-9005-T  <input type="checkbox"/> WHITE RAL-9003-T  <input type="checkbox"/> GREY RAL-7004-T  <input type="checkbox"/> DARK BRONZE RAL-8019-T  <input type="checkbox"/> GREEN RAL-6005-T  FOR SMOOTH FINISH REMOVE SUFFIX "T" (EXAMPLE: RAL-9500)  SEE USALTG.COM FOR ADDITIONAL COLORS	<input type="checkbox"/> HOUSE SIDE SHIELD... HS <input type="checkbox"/> DIMMABLE DRIVER(S) (0-10V)... DIM <input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NON-INTEGRATED MOTION SENSOR... HLSW <input type="checkbox"/> 10KV SURGE PROTECTOR... 10SP <input type="checkbox"/> 20KV SURGE PROTECTOR (277V & 480V Only)... 20SP <input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V)... PC+V <input type="checkbox"/> TWIST LOCK PHOTOCELL +VOLTAGE... TPC+V (COL21 & COL18 Only) <input type="checkbox"/> TWIST LOCK PHOTOCELL RECEPTACLE ONLY... TPR (COL21 & COL18 Only) <input type="checkbox"/> SINGLE FUSE (120V, 277V)... SF <input type="checkbox"/> DOUBLE FUSE (208V, 240V)... DF <input type="checkbox"/> CLEAR SMOOTH POLYCARBONATE DIFFUSER... CP

Sun Valley Lighting

660 West Avenue O, Palmdale, CA 93551  
Phone (661) 233-2000 Fax (661) 233-2001  
www.usaltg.com

**SUN VALLEY**  
LIGHTING





## SITE PLAN - ELECTRICAL

SITE LIGHTING FIXTURE SCHEDULE									
#	DESCRIPTION	MANUFACTURER	MODEL	VOLTAGE	REQUIRED LAMPS		VA	COMMENT	
SB1	ROLLAND 6" ROUND X 42" HIGH FULL CUT OFF	US ARCHITECTURAL LIGHTING	BRM-6-24LED-150-120	120 V	TYPE	LAMP QUANTITY			
SB2	ROLLAND 6" ROUND X 42" HIGH WITH INTERNAL HOUSE SHIELD AND FULL CUT OFF	US ARCHITECTURAL LIGHTING	BRM-6-24LED-HW-120-HS100	120 V	LED	1	30 VA		
SL1	SUN SINGLE LEAD EXTENSION SITE LIGHTING FIXTURE, POLE MOUNTED WITH TYPE 3 LAMP-ING COVERAGE, FULL CUT OFF	US ARCHITECTURAL LIGHTING	LUM-LED-FILED-80-300-500-177-FR-BSH1	277 V	LED	PROVIDED WITH FIXTURE	82 VA		PROVIDE 10-10 POLE BASIS OF DESIGN LYTE POLES MODEL#P1-4011-10
SL2	SUN SINGLE LEAD EXTENSION SITE LIGHTING FIXTURE, POLE MOUNTED WITH TYPE 3 LAMP-ING COVERAGE, FULL CUT OFF	US ARCHITECTURAL LIGHTING	LUM-LED-FILED-80-300-500-177-FR-BSH1	277 V	LED	PROVIDED WITH FIXTURE	82 VA		PROVIDE 10-10 POLE BASIS OF DESIGN LYTE POLES MODEL#P1-4011-10
SP1	DECORATIVE NIGHT POLE SINGLE LEAD FULL CUT OFF	Sun Valley Lighting	YCD-14LED-150-04-PXPT-DB-1000	120 V	LED	1	72 VA		PROVIDE 10-10 DECORATIVE POLE BASIS OF DESIGN PUP COMPOSITE MODELS DB PL 10 SR G1 10

GENERAL SITE NOTES:

1. ELECTRICAL SERVICE AND INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, APPLICABLE STATE AND LOCAL CODES AND LOCAL UTILITY COMPANY REQUIREMENTS.
2. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE ELECTRICAL SERVICE WITH THE UTILITY COMPANY PRIOR TO BID. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS AND REQUIREMENTS OF TRANSFORMERS, POLES, TOWERS, AND OTHER UTILITY STRUCTURES. CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS FROM THE UTILITY COMPANY PRIOR TO COMMENCEMENT OF WORK. UTILITIES SHOWN ON DRAWING ARE TO BE USED AS GUIDELINE ONLY AND MAY NOT NECESSARILY BE APPROVED FINAL APPROVALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. CONTRACTORS SHALL COORDINATE ALL CONDUIT ROUTINGS WITH OTHER TRADES PRIOR TO BEGINNING WORK TO DETERMINE ROUTING THAT WILL NOT INTERFERE WITH OTHER TRADES.

### SITE KEY NOTES

- ① PROPOSED ROUTING OF TRANSFORMER SECONDARY FEED TO MOP-8  
ROUTE 4F BELOW GRADE. COORDINATE ROUTING WITH STRUCTURAL SUPPORTS  
AND ALL UTILITIES PRIOR TO ROUGH-IN. REFER TO ONE LINE DIAGRAM FOR  
QUANTITIES OF CONDUITS. REF. TO GRU ENERGY DELIVERY SERVICE GUIDE  
APPENDICES FOR ADDITIONAL REQUIREMENTS  
<https://www.gru.com/shield390/Default.aspx>
- ② PROPOSE ROUTING OF GENERATOR FEED TO EMERGENCY WAREWAY.  
ROUTE 3F BELOW GRADE. COORDINATE ROUTING WITH STRUCTURAL SUPPORTS AND  
ALL UTILITIES PRIOR TO ROUGH-IN







PROPOSED BUILDING  
ACCESS POINT (EAST FACE)