SHEET:

OF FLORE CHRIS P. ZIMMERMAN, A.I.A.

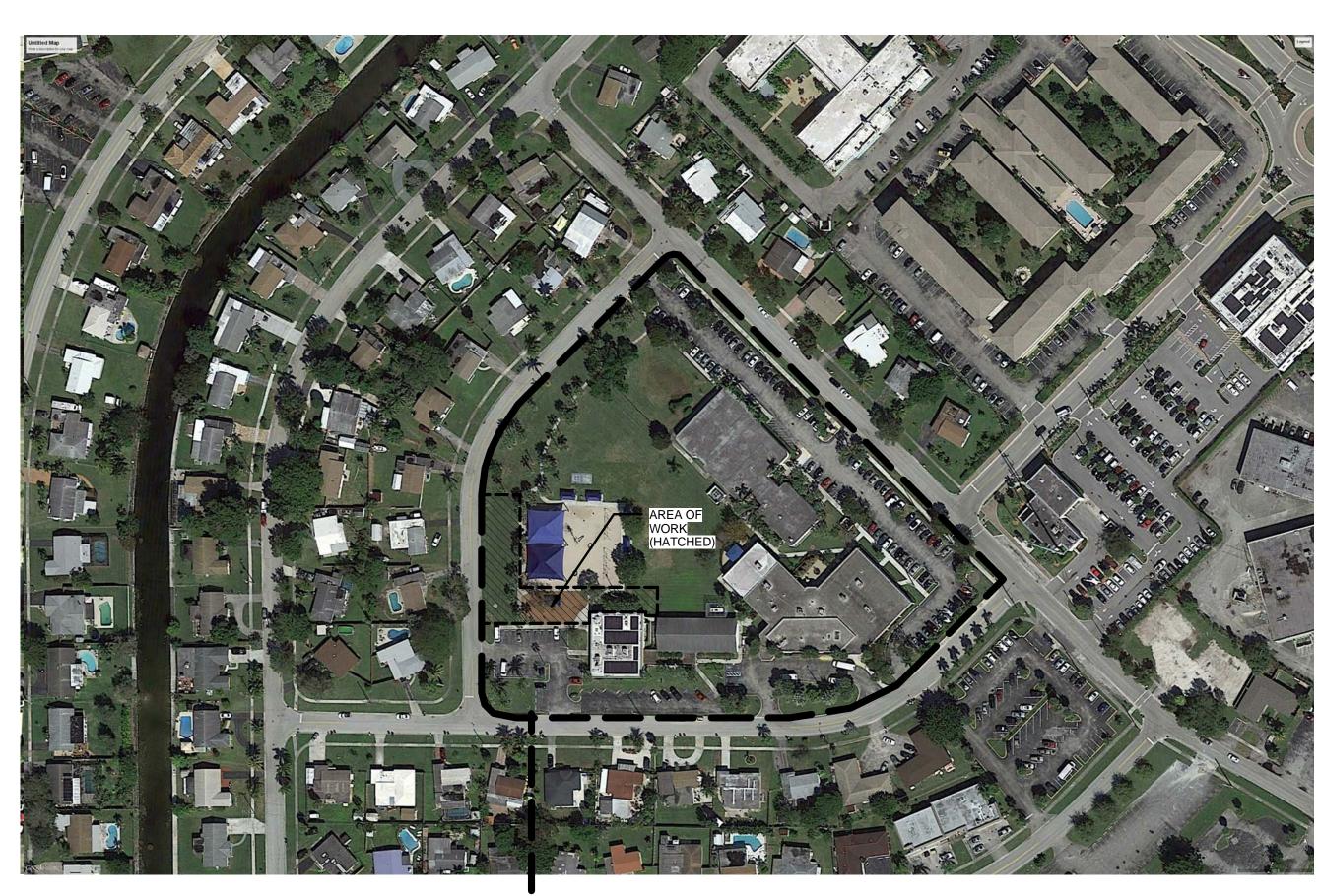
10,995 STATE OF FLORIDA

DATE: 08/28/17

COV

DAVID PARK

DRC SUBMITTAL 08/28/17



LOCATION MAP

-PROJECT SITE LOCATION

&ASSOCIATES 500 West Cypress Creek Road • Suite 630 Fort Lauderdale, FL • 33309 (954) 730-0707 **CERTIFICATES OF AUTHORIZATION**





Drawing Index

COV **COVER SHEET**

SUR SURVEY

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SITE ELECTRICAL

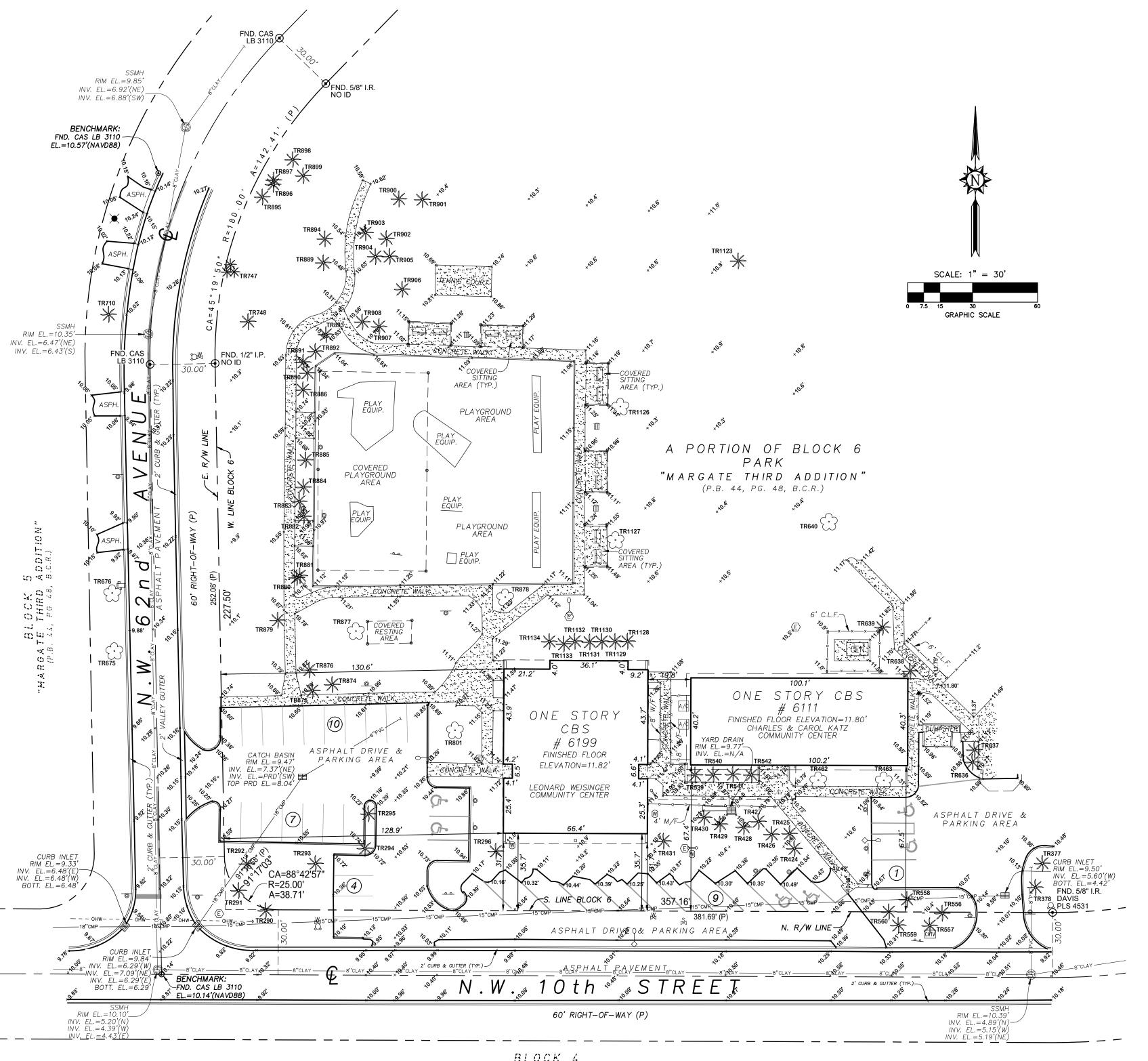
E-1.2 ELECTRICAL PHOTOMETRICS

ARCHITECTURAL

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SKETCH OF TOPOGRAPHIC AND SPECIFIC PURPOSE (TREE) SURVEY

| TREE # | COMMON NAME | TREE DIAMETER (IN INCHES) | COMMENTS |
|--------|----------------------------|------------------------------|----------|
| 290 | COCONUT PALM | 12 | |
| 291 | COCONUT PALM | 13 | |
| 292 | COCONUT PALM | 12 | |
| 293 | COCONUT PALM | 11 | |
| 294 | CABBAGE PALM | 9 | |
| 295 | CABBAGE PALM | 8 | |
| 296 | CABBAGE PALM | 13 | |
| 377 | CABBAGE PALM | 11 | |
| 378 | CABBAGE PALM | 12 | |
| 424 | CABBAGE PALM | 12 | |
| 425 | CABBAGE PALM | 10 | |
| 426 | CABBAGE PALM | 13 | |
| 427 | CABBAGE PALM | 13 | |
| 428 | CABBAGE PALM | 13 | |
| 429 | CABBAGE PALM | 11 | |
| 430 | CABBAGE PALM | 13 | |
| 431 | CABBAGE PALM | 12 | |
| 462 | UNKNOWN TREE | 5 | |
| 463 | UNKNOWN TREE | 5 | |
| 539 | PHOENIX ROEBELENII PALM | 3 | |
| 540 | PHOENIX ROEBELENII PALM | 3 | |
| 540 | PHOENIX ROEBELENII PALM | 3 | |
| | | 3 | |
| 542 | PHOENIX ROEBELENII PALM | | |
| 556 | CABBAGE PALM | 12 | |
| 557 | CABBAGE PALM | 12 | 1 |
| 558 | CABBAGE PALM | 13 | |
| 559 | CABBAGE PALM | 13 | |
| 560 | CABBAGE PALM | 13 | |
| 636 | CABBAGE PALM | 12 | |
| 637 | CABBAGE PALM | 13 | |
| 638 | CABBAGE PALM | 11 | |
| 639 | CABBAGE PALM | 11 | |
| 640 | OAK TREE | 15 | |
| 675 | MAHOGANY TREE | 24 | |
| 676 | MAHOGANY TREE | 16 | |
| 710 | ROYAL PALM | 14 | |
| 747 | PALM CLUSTER | N/A | |
| 748 | CABBAGE PALM | 12 | |
| 801 | OAK TREE | 8 | |
| 874 | CABBAGE PALM | 12 | |
| 875 | CABBAGE PALM | 12 | |
| 876 | CABBAGE PALM | 12 | |
| 877 | GUMBO LIMBO | 18 | |
| 878 | BOTTLE BRUSH | 24 | |
| 879 | CABBAGE PALM | 10 | |
| 880 | CABBAGE PALM | 12 | |
| 881 | CABBAGE PALM CABBAGE PALM | 12 | |
| | | | |
| 882 | CABBAGE PALM | 12 | |
| 883 | CABBAGE PALM | 9 | |
| 884 | CABBAGE PALM | 10 | |
| 885 | CABBAGE PALM | 10 | 1 |
| 886 | CABBAGE PALM | 10 | |
| 889 | CABBAGE PALM | 12 | |
| 890 | CABBAGE PALM | 12 | |
| 891 | CABBAGE PALM | 12 | |
| 892 | CABBAGE PALM | 10 | 1 |
| 893 | CABBAGE PALM | 15 | |
| 894 | CABBAGE PALM | 9 | |
| 895 | CABBAGE PALM | 10 | |
| 896 | CABBAGE PALM | 12 | |
| 897 | CABBAGE PALM | 8 | |
| 898 | CABBAGE PALM | 9 | |
| 899 | CABBAGE PALM | 11 | |
| 900 | CABBAGE PALM | 12 | |
| 901 | CABBAGE PALM | 14 | |
| 902 | CABBAGE PALM | 10 | |
| 903 | CABBAGE PALM | 10 | |
| | | | + |
| 904 | CABBAGE PALM | 10 | |
| 905 | CABBAGE PALM | 11 | - |
| 906 | CABBAGE PALM | 12 | |
| 907 | CABBAGE PALM | 10 | |
| 908 | CABBAGE PALM | 10 | |
| 1123 | QUEEN PALM | 10 | |
| 1126 | GUMBO LIMBO | 24 | |
| 1127 | GUMBO LIMBO | 30 | |
| 1128 | CABBAGE PALM | 9 | |
| 1129 | CABBAGE PALM | 11 | |
| 1130 | CABBAGE PALM | 12 | |
| 1131 | CABBAGE PALM | 11 | |
| · | | | - |
| 1132 | CABBAGE PALM | 11 | |



BLOCK 4 "MARGATE THIRD ADDITION" (P.B. 44, PG 48, B.C.R.)

ABBREVIATIONS:

 B.C.R:
 ...
 BROWARD COUNTY RECORDS

 P.B.
 ...
 PLAT BOOK

 O.R.B.
 ...
 DEED BOOK

 P.G:
 ...
 PAGE

 PLS
 ...
 PROFESSIONAL LAND SURVEYOR

 LB:
 ...
 LICENSED BUSINESS

 (P)
 ...
 PER PLAT

 (TYP.)
 ...
 TYPICAL

 INV.
 ...
 INVERT

 FI
 ...
 ELEVATION

CABBAGE PALM

CABBAGE PALM

ELEVATION FOUND FND. IRON PIPE IRON ROD STORM DRAINAGE MANHOLE SSMH. SANITARY SEWER MANHOLE BOTT. CORRUGATED METAL PIPE PVC. POLYVINYL CHLORIDE EQUIPMENT EQUIP. CHAIN LINK FENCE WOOD FENCE

BENCH . BOLLARD OR GUARD POST . CABLE TV VAULT . GENERATOR . DOUBLE SUPPORT SIGN . SIGN MAIL BOX METAL POST TRASH BIN CONCRETE LIGHT POLE FIRE HYDRANT WATER VALVE WATER METER WOODPOWER/LIGHT POLE . ELECTRIC WIRE PULL BOX +10.30' · · · · EXISTING SURFACE ELEVATION . NUMBER OF PARKING SPACES HANDICAP SPACE

AIR CONDITIONING UNIT

CURB INLET OR CATCH BASIN

SANITARY SEWER MANHOLE

BACKFLOW PREVENTER

. ANCHOR OR GUY WIRE

TREE LEGEND:

EXISTING PALM (REFER TO TREE TABLE)

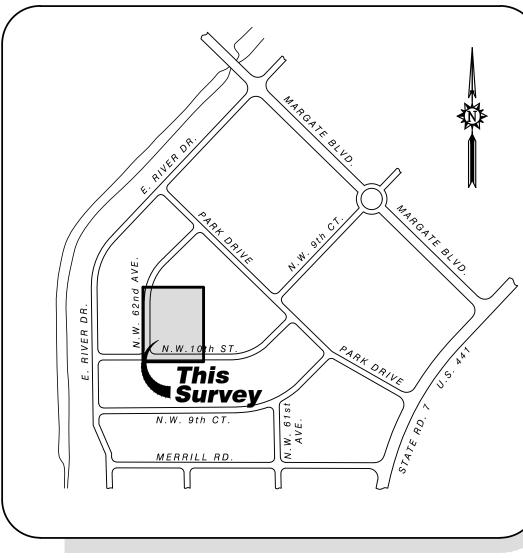
Comparison of the comparison

 THE PLAT OF "MARGATE THIRD ADDITION" RECORDED IN PLAT BOOK 44, PAGE 48 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

TREE SURVEY NOTES:

SURVEYOR'S REFERENCES:

- 1. THIS FIRM HAS IDENTIFIED THE VARIOUS TYPES OF TREES LOCATED ON THIS SITE BASED ON COMMON KNOWLEDGE OF TREE SPECIES. FOR POSITIVE IDENTIFICATION OF TREE SPECIES A QUALIFIED LANDSCAPE ARCHITECT OR BOTANIST SHOULD BE CONSULTED. TREES THREE (3") CALIPER INCHES OR LARGER, WHEN MEASURED AT BREAST HEIGHT, ARE SHOWN ON THE SURVEY DRAWING. HEDGES AND GROUND COVER ARE NOT SHOWN THE SURVEY DRAWING. EXOTIC TREES SUCH AS MELALEUCA, BRAZILIAN PEPPER, AND AUSTRALIAN PINE ARE NOT SHOWN ON THE SURVEY DRAWING.
- 2. EACH TREE LOCATED HAS BEEN TAGGED WITH A NUMBERED TAG THAT CORRESPONDS TO THE TREE LEGEND SHOWN HEREON.
- 3. CLUSTERS OF TREES ARE SHOWN GROUPED WITH AN APPROXIMATION OF THE TOTAL NUMBER OF TREES LOCATED WITHIN THE GROUP.
- 4. THE CANOPY DIAMETER AND SPREAD ARE NOT SHOWN HEREON, UNLESS INDICATED OTHERWISE.



Location Map

NOT TO SCALE

SURVEY NOTES

- THIS SKETCH OF TOPOGRAPHIC AND SPECIFIC PURPOSE (TREE) SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR SURVEYING ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J—17, FLORIDA ADMINISTRATIVE CODES, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.
- 2. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENS SURVEYOR AND MAPPER.
- 3. A SEARCH OF THE PUBLIC RECORDS FOR OWNERSHIP, EASEMENTS, RIGHTS—OF—WAY, OR OTHER MATTERS OF RECORD WAS NOT PERFORMED BY STONER & ASSOCIATES, INC. THERE MAY BE ADDITIONAL INFORMATION RECORDED IN THE PUBLIC RECORDS THAT IS NOT SHOWN HEREON. FOR FURTHER INFORMATION, CONTACT A QUALIFIED TITLE COMPANY OF CONSULT THE PUBLIC RECORDS OF BROWARD COUNTY. FLORIDA
- 4. THE ANGLES AND DISTANCES SHOWN HEREON ARE BASED ON THE PLAT OF "MARGATE THIRD ADDITION", RECORDED IN PLAT BOOK 44, AT PAGES 48, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
- 5. THE ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88),
- 6. CERTAIN FEATURES ARE REPRESENTED BY THE SYMBOLS REFLECTED IN THIS MAP. THE LEGEND OF FEATURES MAY HAVE BEEN ENLARGED FOR CLARITY AND MAY NOT REPRESENT THE ACTUAL SHAPE OR SIZE OF THE FEATURE. THE SYMBOLS
- 7. THIS SKETCH IS INTENDED TO BE DISPLAYED AT A HORIZONTAL SCALE OF 1 INCH = 30 FEET.
- 8. THE HORIZONTAL ACCURACY FOR WELL DEFINED IMPROVEMENTS DEPICTED ON THIS SKETCH IS ONE—TENTH $(0.1'\ \pm)$ OF FOOT, PLUS OR MINUS. THE VERTICAL (ELEVATIONS) ACCURACY FOR WELL DEFINED IMPROVEMENTS, FEATURES, AND SURFACES DEPICTED ON THIS SURVEY IS TWO—TENTHS $(0.2'\ \pm)$ OF A FOOT, PLUS OR MINUS.
- 9. HEDGES, GROUND COVER, AND OTHER LANDSCAPE FEATURES ARE NOT SHOWN HEREON, UNLESS OTHERWISE NOTED.
- 10. IRRIGATION FEATURES, SUCH AS SPRINKLERS, ARE NOT SHOWN HEREON.
- 11. FENCES AND WALL DIMENSIONS ARE APPROXIMATE. THE SURVEYOR DID NOT DETERMINE OWNERSHIP OF FENCES AND
- 12. SUBSURFACE FEATURES ARE NOT SHOWN HEREON. THIS SITE COULD HAVE UNDERGROUND INSTALLATIONS THAT ARE NOT SHOWN HEREON. BEFORE DESIGN, CONSTRUCTION, OR EXCAVATION CONTACT 811 AND/OR THE APPROPRIATE UTILITY COMPANIES FOR FIELD VERIFICATION OF UTILITIES.
- 13. THE EXTERIOR BUILDING DIMENSIONS SHOWN HEREON REPRESENT THE OVERALL SIZE OF THE BUILDING (FOOTPRINT). SUBSURFACE BUILDING FOOTINGS AND SUPPORTS WERE NOT LOCATED. CERTAIN ARCHITECTURAL FEATURES MAY NOT BE SHOWN ON THE SURVEY. ROOF OVERHANGS ARE NOT SHOWN UNLESS OTHERWISE NOTED. BUILDING DIMENSIONS AND BUILDING SETBACKS ARE SHOWN ROUNDED TO THE NEAREST ONE—TENTH (0.1') OF A FOOT. BEFORE DESIGN OF IMPROVEMENTS CRITICAL DIMENSIONS SHOWN BE CONFIRMED.
- 14. THE DIMENSIONS SHOWN HEREON ARE BASED UPON U.S. SURVEY FEET AND FRACTIONAL PARTS THEREOF.
- 15. AREA COMPUTATIONS, WHEN SHOWN IN ACRES, ARE ROUNDED TO THE NEAREST ONE—HUNDREDTH OF AN ACRE, AND WHEN SHOWN IN SQUARE FEET ARE ROUNDED TO THE NEAREST SQUARE FOOT. THE AREA FIGURES SHOWN HEREON SHOULD NOT BE UTILIZED AS THE BASIS OF PURCHASE PRICE FOR A REAL ESTATE CLOSING, WITHOUT PRIOR VERIFICATION OF THE AREA FIGURES, IN WRITING FROM THE SIGNING SURVEYOR.
- 16. THE SURVEYOR DID NOT INSPECT THIS PROPERTY FOR ENVIRONMENTAL HAZARDS.
- 17. THE SANITARY SEWER AND STORM DRAINAGE AS—BUILT DATA SHOWN HEREON WAS COLLECTED FOR ENGINEERING DESIGN PURPOSES ONLY. THE AS—BUILT DATA IS LIMITED TO STRUCTURE RIM AND PIPE INVERT ELEVATIONS ONLY. PIPE SIZES AND PIPE MATERIAL TYPES SHOULD BE CONFIRMED BEFORE DESIGN OF IMPROVEMENTS. THE SURVEYORS DID NOT PHYSICALLY ENTER THE STRUCTURES AND ALL OF THE MEASUREMENTS AND ELEVATIONS WERE COLLECTED (WITH THE LID OF THE STRUCTURE REMOVED) BY VISUAL OBSERVATIONS IN ACTIVE FACILITIES WITH WATER AND EFFLUVIUM PRESENT. THE CONNECTIONS BETWEEN STRUCTURES WERE VISUALLY INSPECTED OR VERIFIED AND THE CONDITION OF PIPING WAS NOT DETERMINED. CRITICAL ELEVATIONS AND DIMENSIONS SHOULD BE VERIFIED BEFORE DESIGN OF IMPROVEMENTS, WITH THE FACILITIES PUMPED DOWN AND PIPES CLEANED OUT. BEFORE ORDERING REPLACEMENT OR CONNECTING PIPES THE SIZE AND TYPE OF PIPES SHOULD BE CONFIRMED.
- 18. THE INFORMATION DEPICTED ON THIS SKETCH OF SURVEY REPRESENTS THE RESULTS OF A FIELD SURVEY ON THE DATE INDICATED ON THE BORDER OF THE DRAWING AND CAN ONLY BE CONSIDERED VALID FOR THIS DATE AND INDICATES THE GENERAL CONDITIONS EXISTING AT THE TIME OF THE FIELD SURVEY.
- 19. THIS SKETCH OF SURVEY CANNOT BE RELIED UPON BY PERSONS OR ENTITIES OTHER THAN THOSE PERSONS OR ENTITIES CERTIFIED TO HEREON. ADDITIONS OR DELETIONS TO THIS SURVEY AND/OR REPORTS BY PEOPLE OR PERSONS OTHER THAN THE SIGNING PARTIES ARE PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- 20. THE INFORMATION CONTAINED IN THIS DOCUMENT WAS PREPARED BY STONER & ASSOCIATES, INC. (S&A). S&A HAS TAKEN PRECAUTIONS TO ENSURE THE ACCURACY OF THIS DOCUMENT AND THE DATA REFLECTED HEREIN. S&A CANNOT NOT GUARANTEE THAT ALTERATIONS AND/OR MODIFICATIONS WILL NOT BE MADE TO THE DATA CONTAINED IN THIS DOCUMENT BY OTHERS AFTER IT LEAVES OUR POSSESSION. THIS DOCUMENT MUST BE COMPARED TO THE ORIGINAL HARD COPY (WHICH BEARS THE RAISED SURVEYOR'S CERTIFICATION SEAL) TO ENSURE THE ACCURACY OF THE INFORMATION CONTAINED HEREON AND TO FURTHER ENSURE THAT ALTERATIONS AND/OR MODIFICATIONS HAVE NOT BEEN MADE. S&A MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY OF THE INFORMATION CONTAINED IN THIS OR ANY DOCUMENT TRANSMITTED OR REVIEWED BY COMPUTER OR OTHER ELECTRONIC MEANS. CONTACT S&A FOR VERIFICATION OF ACCURACY.

CERTIFIED TO:

CPZ ARCHITECTS INC.

SURVEYOR'S CERTIFICATE:

THIS IS TO CERTIFY THAT THIS SKETCH OF TOPOGRAPHIC AND SPECIFIC PURPOSE (TREE) SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SKETCH MEETS THE STANDARDS OF PRACTICE, ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODES, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

DATE OF SIGNATURE: 6/20/17

RICHARD G. CRAWFORD, JR.
PROFESSIONAL SURVEYOR AND MAPPER NO. 5371
STATE OF FLORIDA
STONER AND ASSOCIATES, INC. L.B. 6633
rcrawford@stonersurveyors.com

REVISION
DATE

THE PROPERTY OF STONER & ASSOCIATES, INC. AND STONER & ASSOCIATES, INC. AND STAND OF STONER & ASSOCIATES, INC. AND STAND OF STONER & ASSOCIATES, INC. AND STONER & ASSOCIATES, INC. ASSOCIATES, INC. AND STONER & ASSOCIATES, INC. ASSOCIATES, INC. ASSOCIATES, INC.

& ASSOCIATES, Inc.
/EYORS - MAPPERS
ida Licensed Surveying
apping Business No. 6633
AVENUE, TOWN OF DAVIE, FLORIDA 333

PROJECT

17-8548

SHEET NO.

1 OF 1

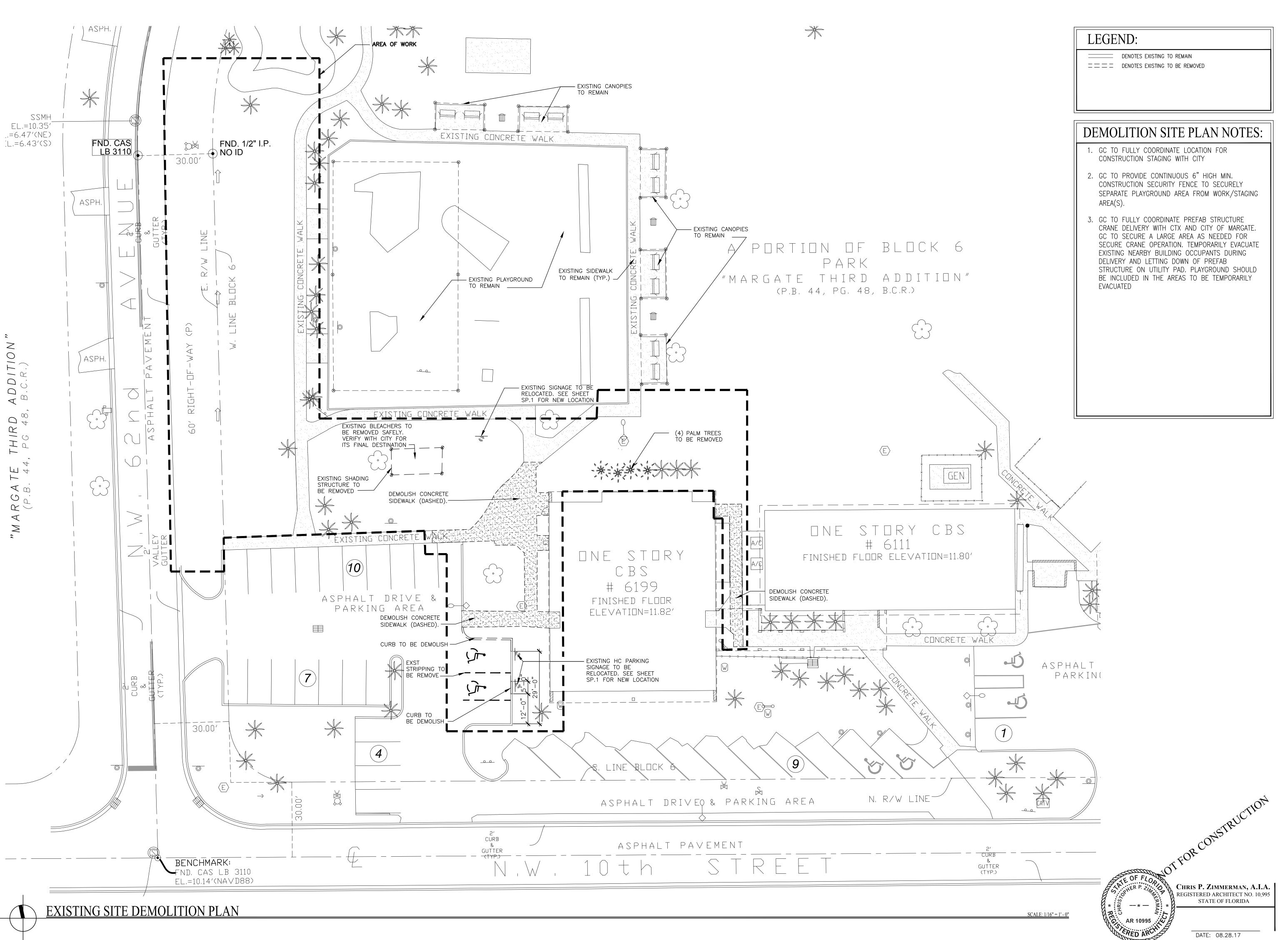
METAL FENCE

ARC DISTANCE

CRAIG A. SMITH

RADIUS

CENTRAL ANGLE



CONSULTANT:

ONSOLIANT

DRC SUBMITTAL 08-28-2017

6199 NW 10TH ST. ARGATE, FL. 33063

6199 N MARGA

Z ARCHITECTS, INC

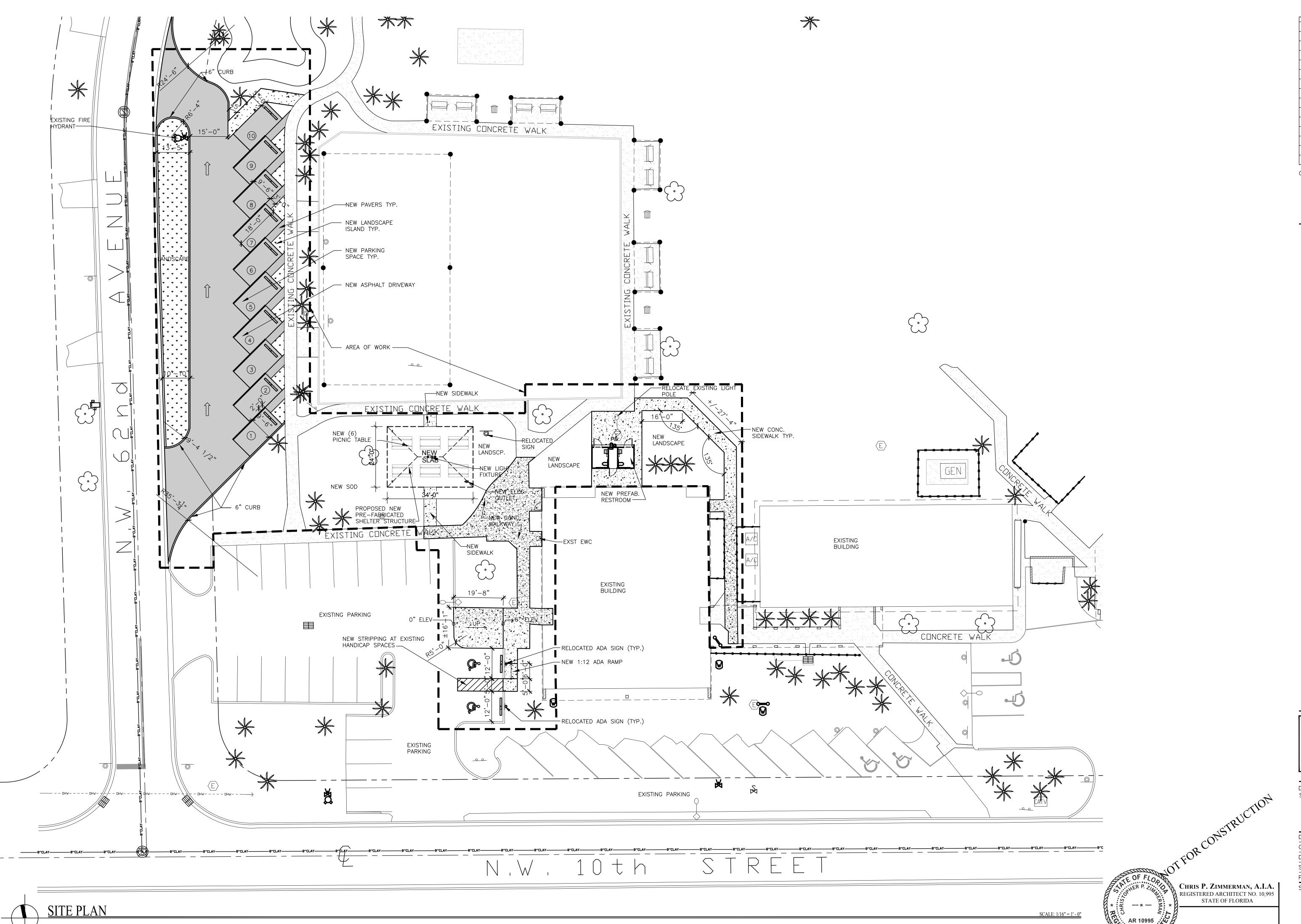
G_{z,z,z,z}

DRAWING TITLE: SITE PLAN

DRAWN
CHECKED CP
DATE 06.23.17
SCALE AS NOTED

PROJECT NO. 1559A SHEET:

D-1



NO. REVISION DATE

DRC SUBMITTAL 08-28-2017

CONSULTANT:

6199 NW 10TH ST. MARGATE, FL. 33063

RCHITECTS, INC.

4316 WEST BROWARD BOULEY PLANTATION, FLORIDA 33317 PHONE: (954) 792-8525 FAX: AA #26000685 WWW.CPZARCI

DRAWING TITLE: SITE PLAN

DRAWN

CHECKED CP

DATE 06.23.17

SCALE AS NOTED

PROJECT NO. 1559A

SP-1

DRAWN: Author
CHECKED: Checker
DATE: 08/28/17

DATE: 08/28/17 SCALE: PROJECT NO. 1559

CHRIS P. ZIMMERMAN, A.I.A.
REGISTERED ARCHITECT NO.
10,995
STATE OF FLORIDA

DATE: 08/28/17

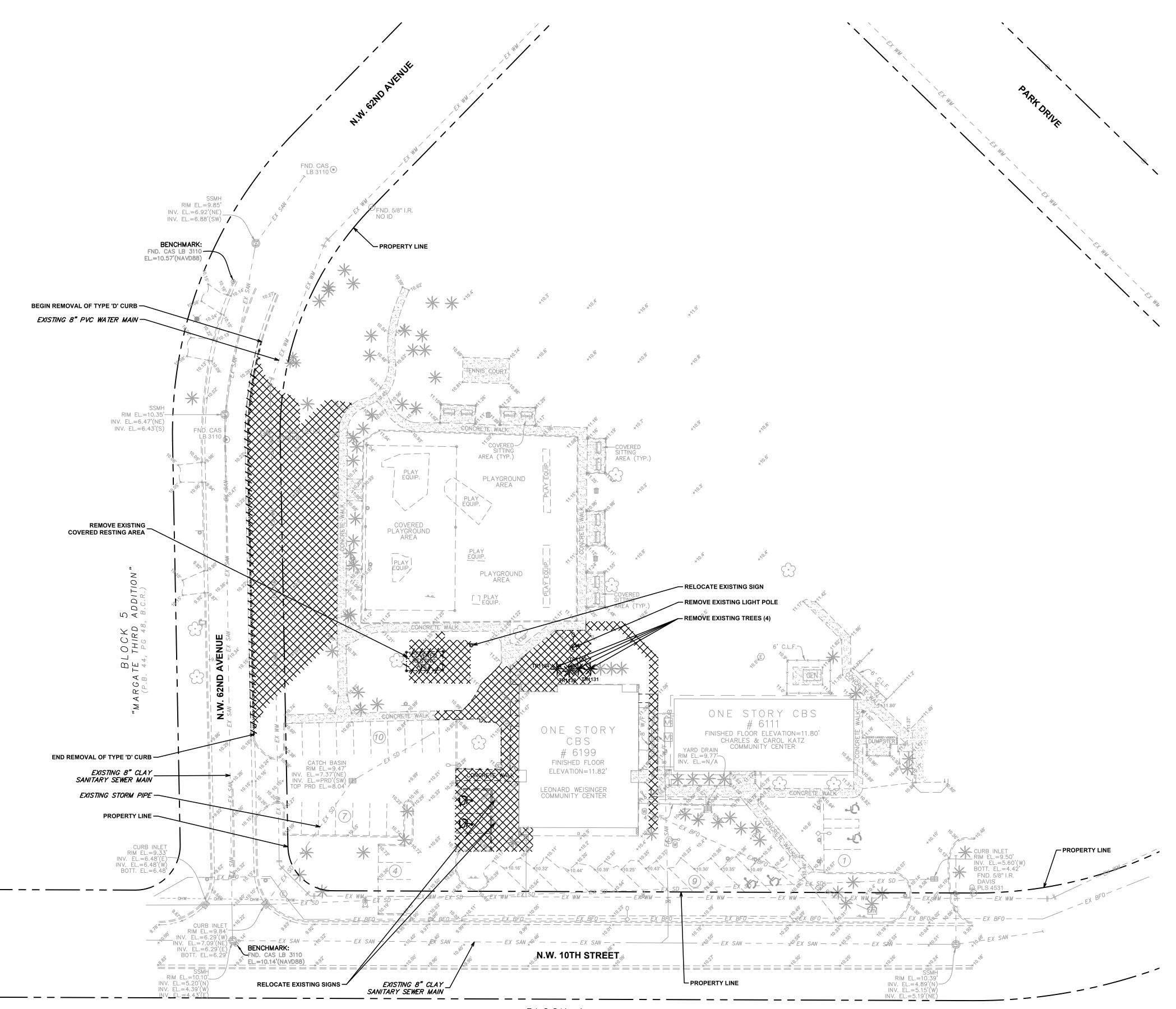
SP-2



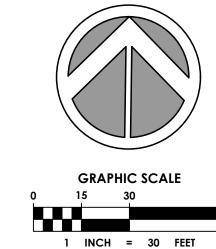
SITE RENDERING - VIEW 1



SITE RENDERING - VIEW 2



BLOCK 4
"MARGATE THIRD ADDITION"
(P.B. 44, PG 48, B.C.R.)



+/+/+/+/+/- REMOVE ITEM AS INDICATED ON PLAN

AREA TO BE CLEARED FOR IMPROVEMENTS

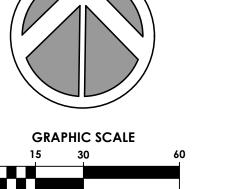
EXISTING CONDITIONS NOTES:

1. EXISTING CONDITIONS PRESENTED ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY STONER AND ASSOCIATES PERFORMED ON 6/20/17. ADDITIONAL INFORMATION WAS OBTAINED FROM AS-BUILTS AND RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES, G.I.S. INFORMATION AND FIELD VISITS.

- 2. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL **DATUM OF 1988 (NAVD 88).**
- 3. CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES NOT IMPACTED BY THIS PLAN.

DEMOLITION NOTES:

- 1. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.
- 2. BEFORE PROCEEDING WITH DEMOLITION OPERATIONS THE CONTRACTOR IS TO DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND DISPOSE OF CHEMICALS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER DANGEROUS MATERIALS.
- 3. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. 4. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT
- OCCUPIED OR IN-USE FACILITIES WITHOUT PERMISSION FROM OWNER, THE TRIBE AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS AS REQUIRED BY GOVERNING REGULATIONS. 5. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE
- AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA.
- 6. ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, BARRIERS, RAILINGS, ETC. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- 7. PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.
- 8. ADJACENT IMPROVEMENTS SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION.
- 9. FOR SELECTIVE DEMOLITION, USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING OR CHOPPING. TEMPORARILY COVER OPENINGS TO REMAIN
- 10. DEMOLISH CONCRETE IN SMALL SECTIONS. CUT CONCRETE AT JUNCTURES WITH CONSTRUCTION TO REMAIN, USING POWER-DRIVEN MASONRY SAW OR HAND TOOLS; DO NOT USE POWER-DRIVEN IMPACT
- TOOLS. 11. INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER; HOWEVER, THIS INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER, AND DEPTH OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ASSIST THE UTILITY COMPANIES, BY EVERY MEANS POSSIBLE, TO DETERMINE SAID LOCATIONS AND THE
- LOCATIONS OF RECENT ADDITIONS TO THE SYSTEMS NOT SHOWN. 12. REMOVAL, DEMOLITION, HAULING, AND DISPOSAL SHALL COMPLY WITH REGULATIONS BY F.D.E.P., E.P.A., AND ANY OTHER AUTHORITY HAVING
- JURISDICTION. 13. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 14. ALL EXISTING PATHWAY AND STREET LIGHTING WILL REMAIN IN PLACE AND REMAIN IN SERVICE DURING CONSTRUCTION OPERATIONS. CONTRACTOR SHALL USE CARE TO ENSURE EXISTING.



DRC SUBMITTAL 08-28-17

&ASSOCIATES



DRAWING TITLE:

EXISTING CONDITIONS AND DEMOLITION PLAN

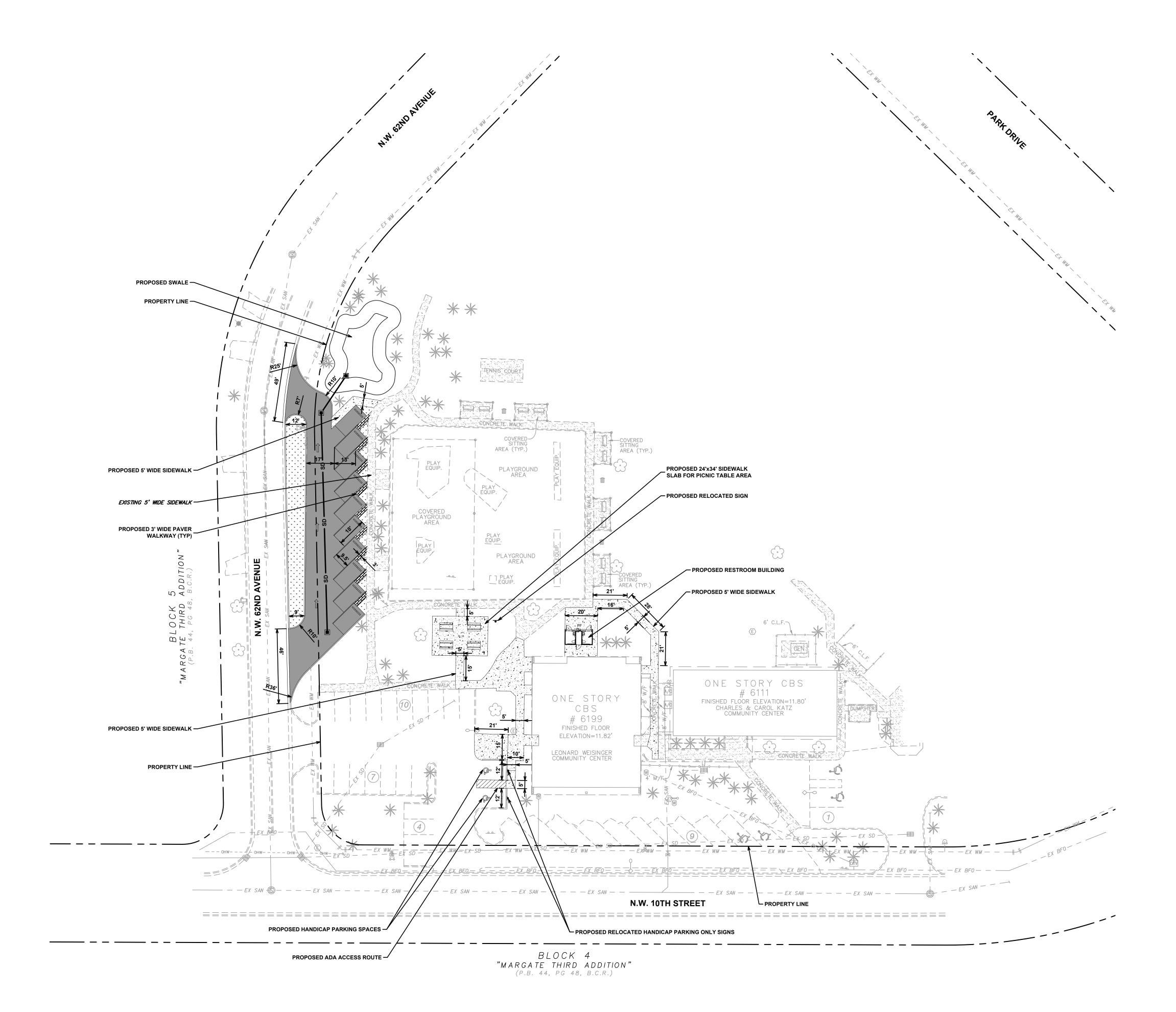
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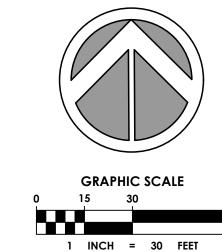
100% DRC SUBMITTAL

DATE: 06.23.17

ANDREW SAVAGE P.E.

LICENSE NO. 82408 STATE OF FLORIDA



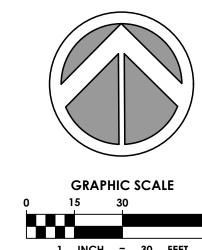


PROPOSED ASPHALT

PROPOSED CONCRETE SIDEWALK EXISTING CONCRETE SIDEWALK

GENERAL NOTES:

- 1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, WHETHER SHOWN OR NOT, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 2. THE HORIZONTAL AND VERTICAL LOCATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND ARE BASED ON FIELD OBSERVATION AND/OR AVAILABLE PLANS. THE EXACT LOCATION MAY VARY. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD.
- 3. ALL EXISTING MANHOLES, VALVES, ETC. ARE TO BE ADJUSTED TO MATCH PROPOSED ELEVATIONS. 4. ANY EXISTING ITEM DISTURBED DURING CONSTRUCTION IS TO BE
- RESTORED TO EQUAL OR BETTER QUALITY. 5. PAVEMENT AND DRIVEWAY RESTORATION ARE TO MATCH EXISTING
- GRADE UNLESS OTHERWISE NOTED. 6. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE
- NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY
- 7. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER
- 8. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY OF



DRC SUBMITTAL 08-28-17

&ASSOCIATES



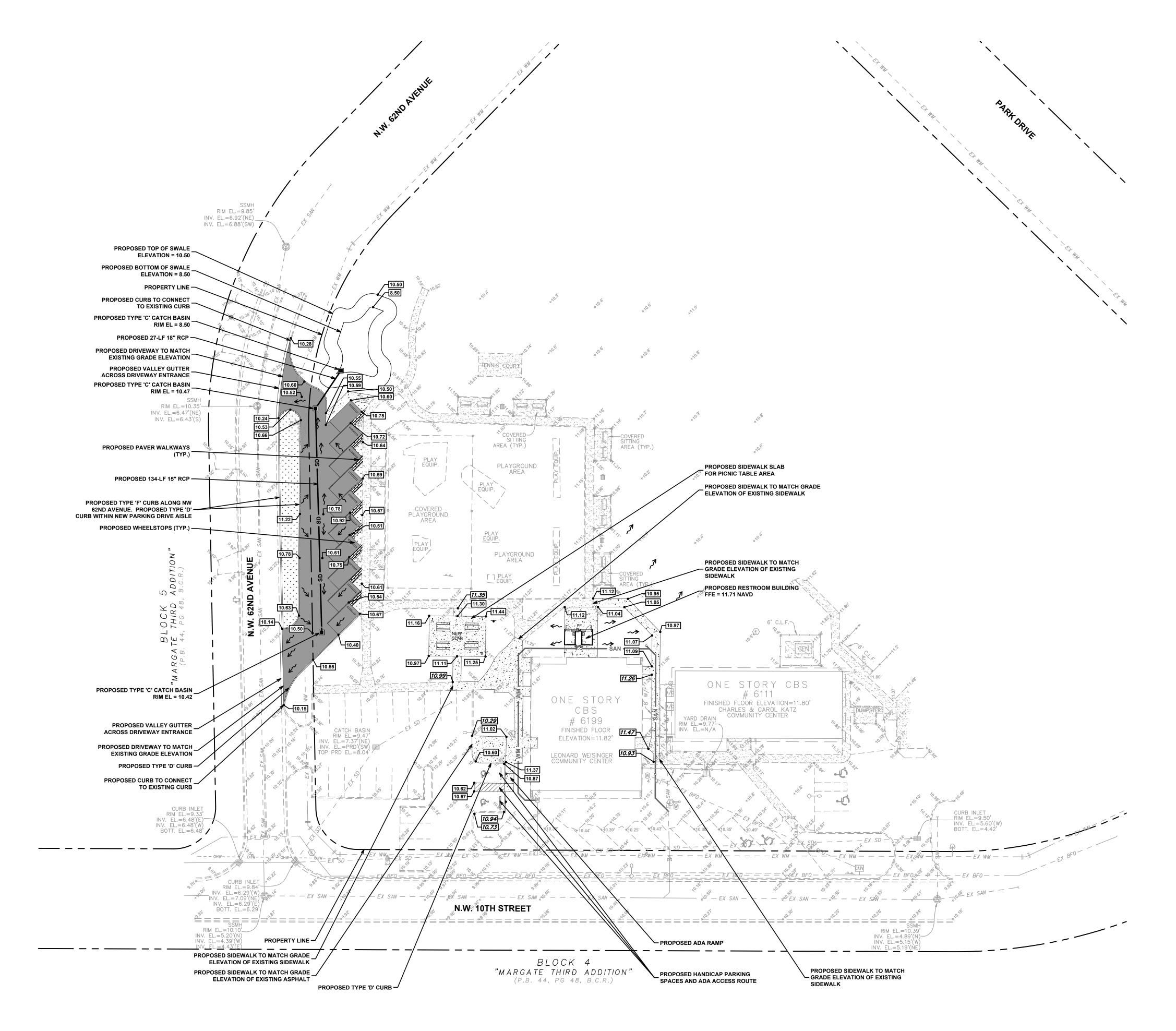
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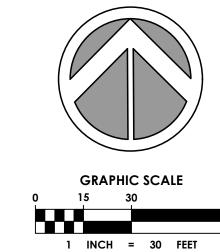
ENGINEERING SITE PLAN

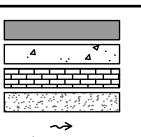
CHECKED DATE 06.23.17 SCALE AS NOTED PROJECT NO. 1559A SHEET:

ANDREW SAVAGE P.E.
LICENSE NO. 82408
STATE OF FLORIDA

DATE: 06.23.17







PROPOSED ASPHALT

PROPOSED CONCRETE SIDEWALK PROPOSED PAVER WALKWAY

EXISTING CONCRETE SIDEWALK

SURFACE FLOW DIRECTION

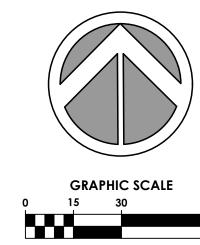
PROPOSED ELEVATION

EXISTING ELEVATION

DRIVEWAY RESTORATION, AND RESTORED ASPHALT PAVEMENT.

PAVING, GRADING AND DRAINAGE NOTES:

- 1. MINIMUM FINISHED FLOOR ELEVATION = 11.32' N.A.V.D. ACTUAL BUILDING ELEVATIONS WILL BE DESIGNED AND SUBMITTED FOR PERMITS PRIOR TO CONSTRUCTION.
- 2. ALL SIDEWALKS SHALL MEET ALL A.D.A. REQUIREMENTS (5% MAX. LONGITUDINAL SLOPE AND 2% MAX. TRANSVERSE SLOPE).
- 3. ALL INLETS SHALL BE TYPE 'C' AND MANHOLES SHALL BE TYPE 'P-7' 4'Ø, ALL H-20 RATED, UNLESS OTHERWISE NOTED ON PLAN.
- 4. CONCRETE PIPE FOR STORM SEWERS SHALL CONFORM TO ASTM L76-79, TABLE III, WALL B, OR LATEST REVISION. ALL PIPE SHALL HAVE MODIFIED TONGUE AND GROOVE JOINTS, AND HAVE RUBBER GASKETS, UNLESS OTHERWISE SPECIFIED.
- 5. BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1"
- 6. BACKFILL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- 7. BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- 8. DRAINAGE STRUCTURES AND LINES TO BE CLEANED PRIOR TO ENGINEER'S ACCEPTANCE. 9. CONTRACTOR TO PROVIDE DETAILED AS-BUILTS SURVEYS THAT CLEARLY DEFINE THE AREAS OF WORK COMPLETED UNDER THIS CONTRACT INCLUDING BUT NOT LIMITED TO ALL RIM ELEVATIONS (EXISTING AND PROPOSED STRUCTURES), ALL INVERTS, BOTTOM OF STRUCTURE, SUFFICIENT SWALE ELEVATIONS TO DEMONSTRATE THAT SWALES DRAIN TO INLETS, LOCATION OF EXFILTRATION TRENCH, LOCATION OF





&ASSOCIATES

DRC SUBMITTAL 08-28-17



DRAWING TITLE:

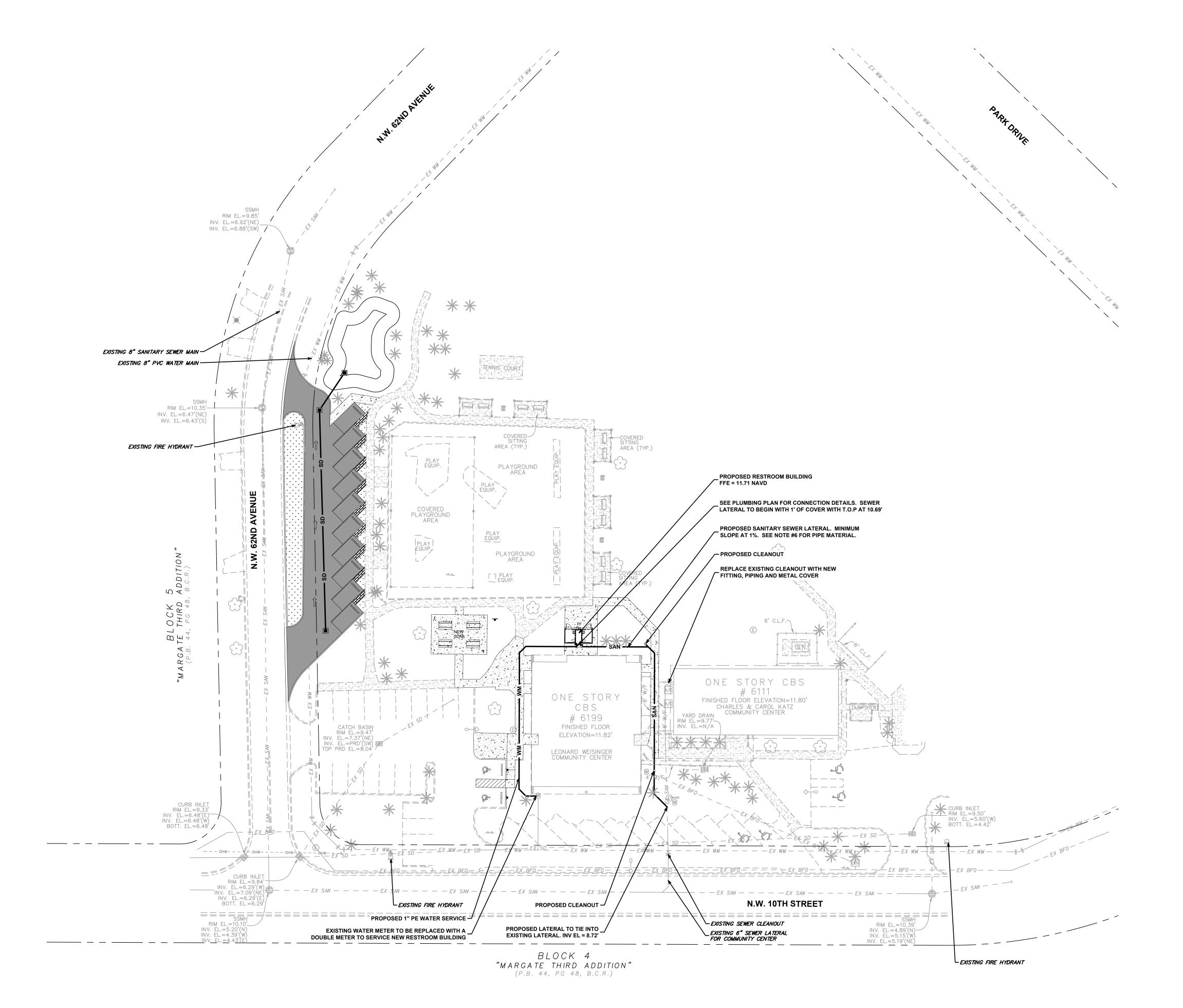
PAVING GRADING AND DRAINAGE PLAN

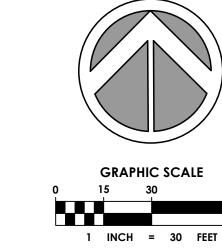
CHECKED DATE 06.23.17 SCALE AS NOTED PROJECT NO. 1559A ANDREW SAVAGE P.E. SHEET:

100% DRC SUBMITTAL

DATE: 06.23.17

LICENSE NO. 82408 STATE OF FLORIDA

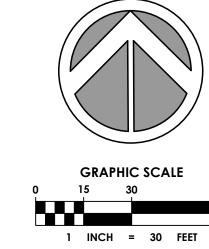




| WM | PROPOSED WATER MAIN | | | | | |
|-------------------|--|--|--|--|--|--|
| 8 | PROPOSED WATER METER AND SERVICE LATERAL | | | | | |
| | PROPOSED BACKFLOW PREVENTER | | | | | |
| SAN | PROPOSED SANITARY SEWER MAIN | | | | | |
| — — — EX WM — — — | EXISTING WATER MAIN | | | | | |
| EX SAN | EXISTING SANITARY SEWER MAIN | | | | | |

WATER AND SEWER NOTES:

- 1. CONTRACTOR SHALL PLAN ALL UTILITY CROSSINGS TO CONFIRM HORIZONTAL AND VERTICAL SEPARATIONS PRIOR TO CONSTRUCTION.
- 2. WATER & SEWER LINES SHALL BE LAID WITH A MINIMUM SIX (6) FOOT LATERAL SEPARATION FROM OBSTRUCTIONS (I.E. CULVERTS, STRUCTURES, ETC.) AND A MINIMUM TEN (10) FOOT CLEARANCE FROM TREES. FIRE HYDRANTS SHALL HAVE A 7.5' CLEAR
- SPECIFIED ON PLAN. 10' MINIMUM HORIZONTAL CLEARANCE IS REQUIRED BETWEEN
- 4. THE EXISTING WATER MAINS AND FIRE HYDRANTS THAT ARE TO BE REMOVED SHALL
- MAINS AND FIRE HYDRANTS ARE ACTIVATED.
- TOP OF PIPE ELEVATION, TOP OF ALL FITTINGS, ETC.





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RADIUS OF ANY OBSTRUCTIONS. 3. WATER MAIN SHALL CROSS OVER DRAINAGE & SEWER LINES UNLESS OTHERWISE

- WATER MAIN AND FORCE MAIN.
- REMAIN ACTIVE UNTIL A CLEARANCE LETTER HAS BEEN ISSUED AND THE NEW WATER
- 5. CONTRACTOR TO PROVIDE DETAILED AS-BUILTS SURVEYS THAT CLEARLY DEFINE THE AREAS OF WORK COMPLETED UNDER THIS CONTRACT INCLUDING BUT NOT LIMITED TO
- 6. PROPOSED 6" SEWER LATERAL WILL BE DUCTILE IRON WITH EPOXY LINING IF GROUND COVER IS LESS THAN 2 FEET, OTHERWISE THE SEWER LATERAL WILL BE SDR 26 PVC.



DRAWING TITLE:

UTILITY PLAN

CHECKED DATE 06.23.17 SCALE AS NOTED
PROJECT NO. 1559A SHEET:

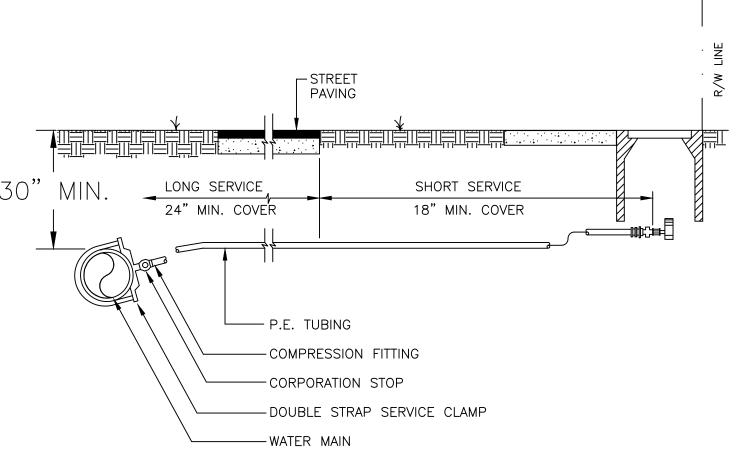
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DATE: 06.23.17

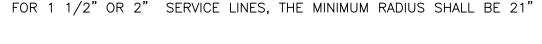
ANDREW SAVAGE P.E.
LICENSE NO. 82408
STATE OF FLORIDA

NOTES ON WATER - SEWER SEPARATION:

- 1. SANITARY SEWERS AND FORCE MAINS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS AND FORCE MAINS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.
- 2. WHERE SANITARY SEWERS OR FORCE MAINS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (D.I.P.) AT THE CROSSING. SUFFICIENT LENGTHS OF D.I.P. MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSING.
- 3. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED
- 4. WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 18 INCHES VERTICAL CLEARANCE, THE NEW PIPE SHALL BE ARRANGED TO MEET THE CROSSING REQUIREMENTS ABOVE.
- 5. A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
- 6. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE
- 7. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF D.I.P. AND THE SANITARY SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF D.I.P. WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).
- 8. ALL D.I.P. SHALL BE CLASS 50 OR HIGHER, ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE DESIGN.

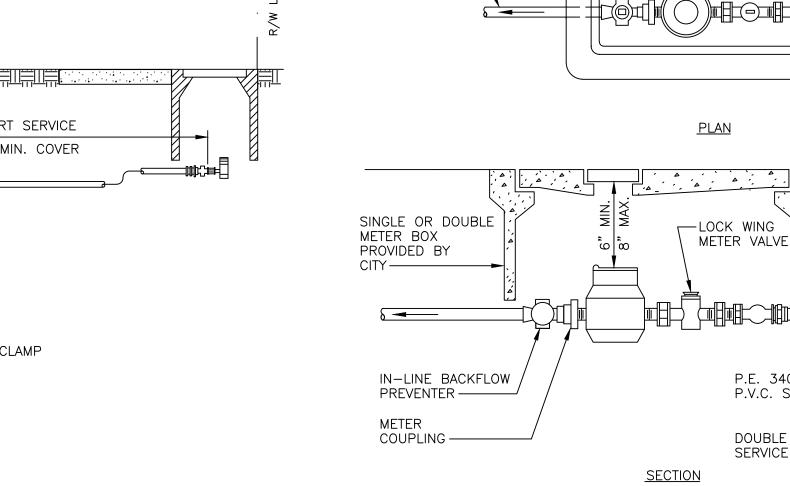


- 1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 18" ON CENTER.
- 2. ALL TAPS INTO WATER MAINS REQUIRE A SERVICE CLAMP.
- 3. SERVICE PIPE SHALL BE SAME SIZE AS THE WATER METER USED EXEPT THAT NO SERVICE PIPE SHALL BE SMALLER THAN 1".
- 4. APPROVED TYPE COPPER TUBING MAY BE USED IN PLACE OF PLASTIC.
- 5. FOR 1" SERVICE LINES, THE MINIMUM RADIUS SHALL BE 14"



WATER SERVICE CONNECTION

CITY OF MARGATE



CUSTOMER PIPE

(BY OTHERS)

NOTES:

- 1. LOCATE BOX 12" OUTSIDE OF STREET R/W LINE.
- 2. CITY RESPONSIBILITY ENDS AT CUSTOMER SIDE OF METER.
- 3. METERS UP TO 2" SHALL BE FURNISHED AND INSTALLED BY CITY. (ALL OTHER WORK BY CUSTOMER)

P.E. 3406 TUBING OR

P.V.C. SCH. 80 -

DOUBLE STRAP

SERVICE CLAMP

CORPORATION

-STOP

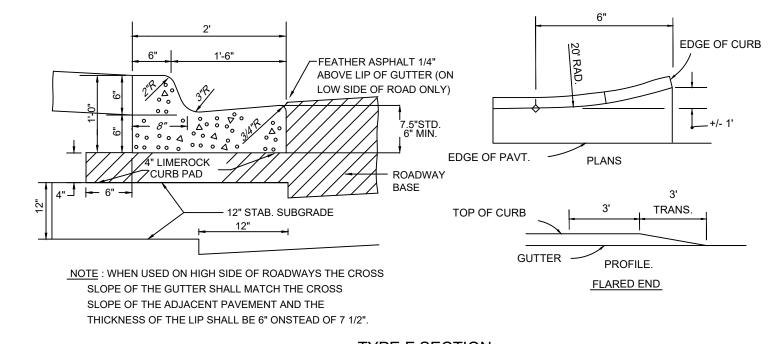
WATER

MAIN —

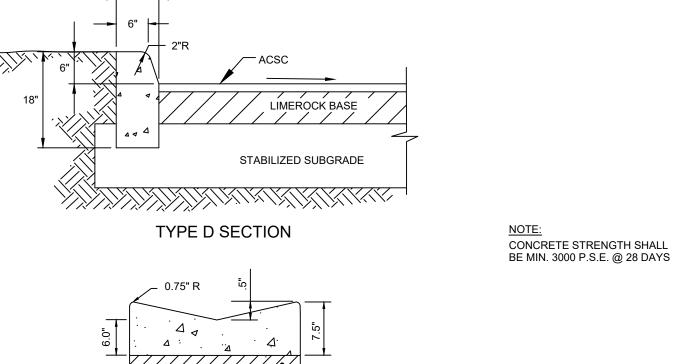
CITY OF MARGATE

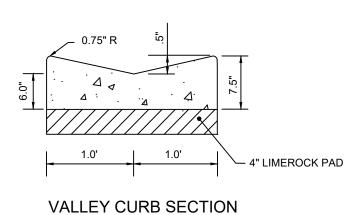
4. MINIMUM RADIUS OF TUBING CURVE SHALL BE 14".

DOUBLE METER BOX

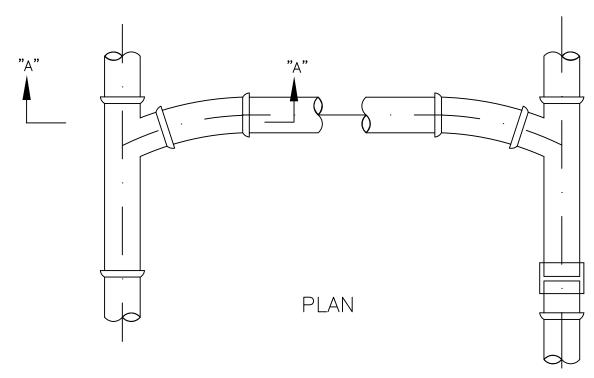


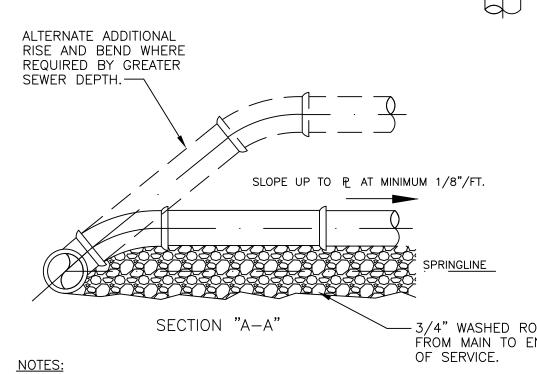
TYPE F SECTION



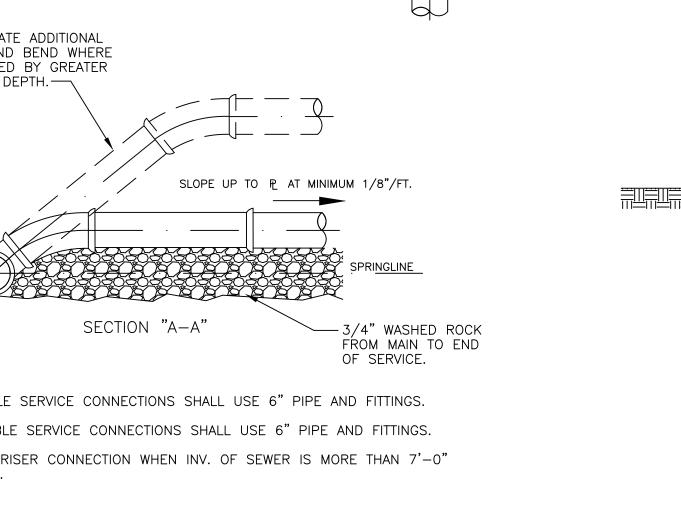




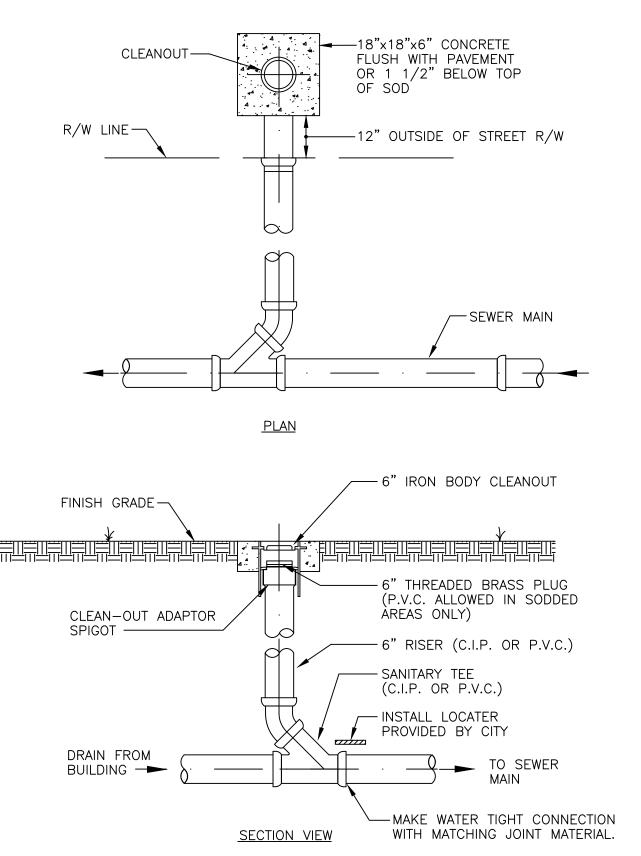




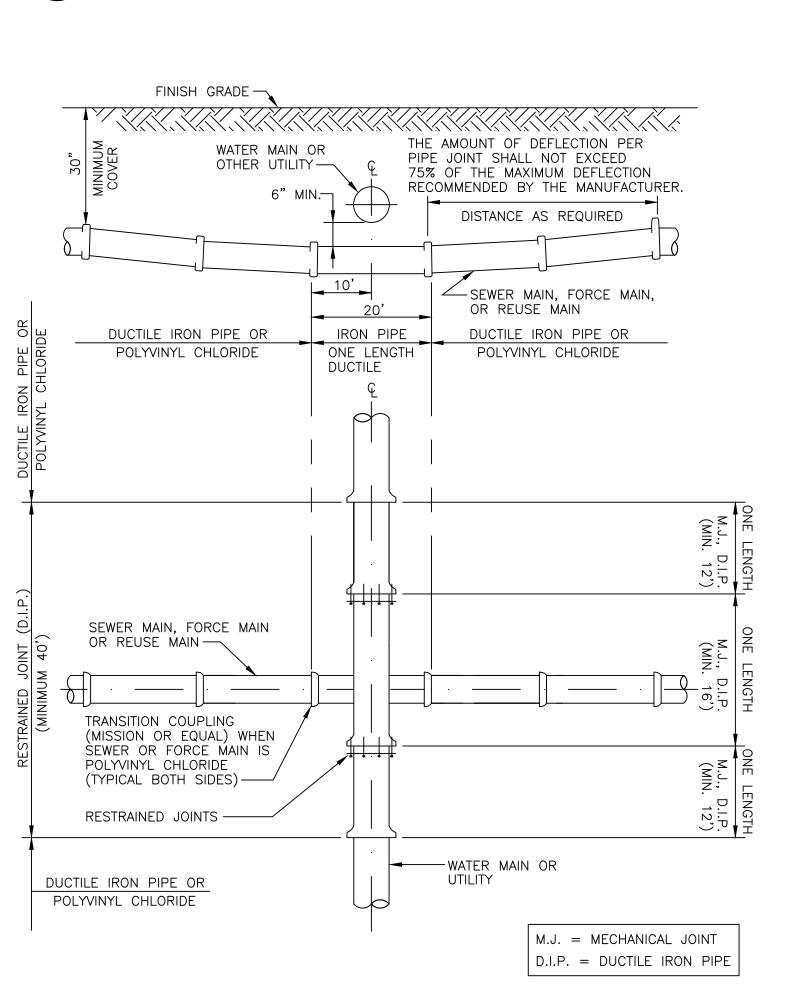
- 1. SINGLE SERVICE CONNECTIONS SHALL USE 6" PIPE AND FITTINGS. 2. DOUBLE SERVICE CONNECTIONS SHALL USE 6" PIPE AND FITTINGS.
- 3. USE RISER CONNECTION WHEN INV. OF SEWER IS MORE THAN 7'-0"



CITY OF MARGATE













DRC SUBMITTAL 08-28-17

CONSULTANT

&ASSOCIATES

VID

6199 NW MARGATE,

DRAWING TITLE: **CIVIL DETAILS** CHECKED

06.23.17 DATE SCALE AS NOTED PROJECT NO. 1559A SHEET:

100% DRC SUBMITTAL

DATE: 06.23.17

ANDREW SAVAGE P.E.

LICENSE NO. 82408 STATE OF FLORIDA

100% DRC SUBMITTAL

DATE: 06.23.17

DRAWN CHECKED DATE SCALE ANDREW SAVAGE P.E. SHEET: LICENSE NO. 82408 STATE OF FLORIDA

CIVIL DETAILS

DRAWING TITLE:

RCHITECTS

06.23.17 AS NOTED PROJECT NO. 1559A

── 2 HOLES FOR 3,000 PSI NO. 5 BARS 12" CONCRETE FROM EACH END -CONC. BASE 12" DIAM. NOTE: BARS TO BE DRIVEN 3/4 INCHES BELOW TOP OF WHEEL STOP AND GROUT FILLED FLUSH WITH TOP OF WHEEL STOP. STEEL FLANGED CHANNEL POST WITH BAKED GREEN ALKYD FINISH PER A.S.T.M.—A—123 WITHOUT ANCHOR PLATES. POST TO CONFORM WITH CURRENT FDOT STANDARDS FOR SINGLE

NO. 5 BARS 18" LONG (2) EMBEDDED IN PAVEMENT

WHEEL STOP

CITY OF MARGATE

SIGN *>//>//>//*

COLUMN GROUND SIGNS.

TYPE I CONCRETE, 3000 P.S.I. (MIN.)

CONC. BASE:

CITY OF MARGATE

PARKING BY DISABLED PERMIT ONLY 5 S.F. FTP-21-06 NOTE
PROVIDE PAVEMENT SYMBOL IN
ACCESSIBLE PARKING SPACES. THE FINE

\$250 MAX

FTP-22-06

ACCESSIBLE PARKING SIGN

SYMBOL SHALL BE WHITE IN COLOR.

RE: FDOT INDEX NO. 17346 & 17355

OTHER APPROVED METHOD TO ACHIEVE -MAINTAIN TRENCH WIDTH 98% COMPACTION -2'-0" ABOVE TOP OF - SEE NOTE -MAXIMUM WATER LEVEL ALLOWABLE DURING CONSTRUCTION 3/4" DIA. BEDDING ROCK 12" ABOVE TOP OF PIPE— -UNDESTURBED SOIL *T = 8" RESIDENTIAL ST. = 10" MAJOR ST. - 4 LANES PIPE (SIZE VARIES)-WIDTH = 12" MAJOR ST. - 6 LANES MIN. "W" = 24"3/4" BEDDING TO SPRINGLINE 4" MIN. BEDDING BENEATH 1. REPLACED BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE, BUT NO LESS THAN "T" SCHEDULE. 2. BASE MATERIAL SHALL BE PLACED IN TWO OR THREE LAYERS AND EACH LAYER THOROUGHLY ROLLED AND TAMPED TO MAXIMUM DENSITY (98%). 3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED. 4. MECHANICAL COMPACTION IS NOT ALLOWED BELOW THIS LEVEL. 5. NEW SURFACE MATERIALS WILL BE CONSISTANT WITH THE EXISTING SURFACE, AND SHALL HAVE LAPPED AND FEATHERED JOINTS.

6. PERMIT REQUIRED FROM ENGINEERING TO CUT PAVEMENT.

7. IF DITCH IS FILLED TEMPORARILY IT SHALL BE COVERED WITH A 2" ASPHALTIC CONC. PATCH UNTIL REPLACED WITH A PERMANENT PATCH.

DITCH WIDTH (W) + 48"

SURFACE REPLACEMENT

SURFACE JOINT

SURFACE -

MECHANICALLY SAWED-

6" MAX. LAYERS OR

-REPLACEMENT BASE

AS REQUIRED FINISH GRADE-WIDTH 6" MAX. LAYERS OR OTHER APPROVED SEE NOTE METHOD TO ACHIEVE '-0" ABOVE TOP OF 98% COMPACTION --- MAXIMUM WATER LEVEL ALLOWABLE DURING CONSTRUCTION 3/4" DIA. BEDDING ROCK 12" ABOVE TOP OF PIPE—

-MAINTAIN TRENCH WIDTH -UNDESTURBED SOIL

PIPE (SIZE VARIES)

1. WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED METHOD OF CONSTRUCTION.

TRENCH DETAIL (UNPAVED AREAS)

2. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD.

3. COMPACTION PERCENTAGES SHOWN REFER TO ASSHO T-180.

4. MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL.

- PROVIDE TRENCH SLOPE

MATERIALS FOR TRUNCATED DOMES.

NOTES

1. CONCRETE TO BE CLASS 1, 3000 P.S.I.

2. THE USE OF REINFORCEMENT IS NOT PERMITTED

DIRECTION \

OF TRAVEL

EDGE OF PAVEMENT-

1/2"R →

PREMOULDED -

JOINT FILLER

EXPANSION TYPE "A"

SUCH REMOVAL, IT SHALL BE REPAIRED IN ACCORDANCE WITH CHAPTER 25, SECTION 5-6 OF THE BROWARD COUNTY HIGHWAY CONSTRUCTION & ENGINEERING DIVISION MINIMUM STANDARDS.

TYPE "B"

SIDEWALK JOINTS

SIDEWALK SLOPES SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.

6. THE VERTICAL DEVIATION FOR A NEW MAINTENANCE ACCESS STRUCTURES COVER SHALL NOT BE MORE

4. RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS IN ACCORDANCE WITH FDOT INDEX 304.

5. THE VERTICAL DEVIATION FOR A NEW SIDEWALK SHALL NOT BE MORE THAN 1/2".

10. WHEN THE REMOVAL OF SIDEWALKS, CURBS OR GUTTERS IS NECESSARY FOR CONSTRUCTION, THEY SHALL STRAIGHT, CLEAN AND SMOOTH BY APPROPRIATE MEANS. IF THE ROAD PAVEMENT IS DAMAGED DURING

7. SUBGRADE MATERIAL SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY, PER AASHTO T-99.

8. STAMPED CONCRETE IS NOT ALLOWED IN LIEU OF TRUNCATED DOMES.

9. SEE HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION APPROVED PRODUCT LIST FOR ACCEPTABLE

BE REMOVED IN FULL SECTIONS OR A MINIMUM OF FIVE (5) FEET IN LENGTH, AND ALL BROKEN EDGES CUT

-TYPE "A" JOINT TYPE "A" JOINT

1-1/2"

NEW SIDEWALK SIDEWALK <u>PLAN</u> - TRUNCATED DOME FDOT INDEX 304 (TYP.) R/W LINE -DIRECTION OF TRAVEL 1/8" —

SECTION A-A

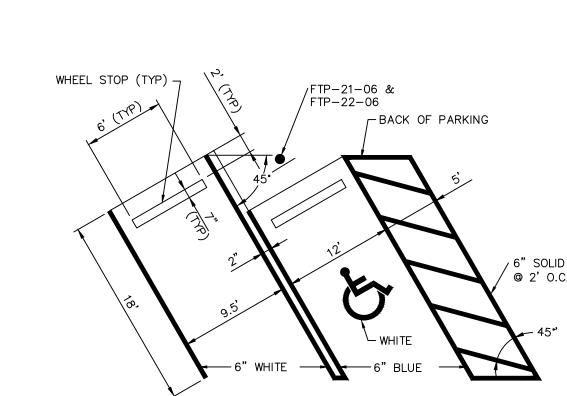
TABLE OF SIDEWALK JOINTS YPE LOCATION
"A" P.C.P.T. OF CURVES & WHERE

CONCRETE DRIVEWAY.

"B" 5'-0" CENTER TO CENTER ON

SIDEWALK ABUTS

SIDEWALKS.



TYPICAL

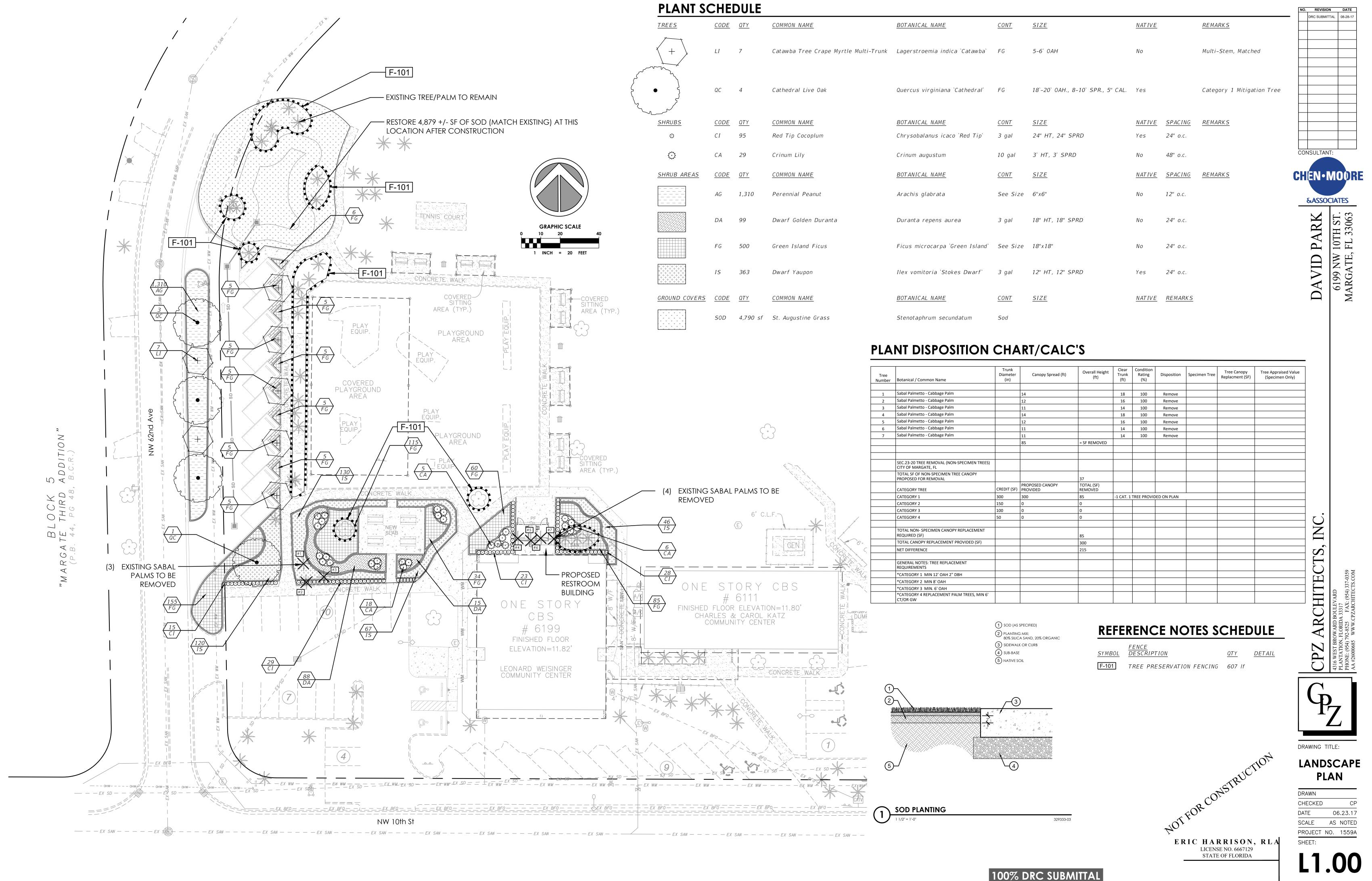
6" SOLID BLUE

ACCESSIBLE

&ASSOCIATES DAVID PARK 6199 NW MARGATE,

CONSULTANT

NO. REVISION DATE DRC SUBMITTAL 08-28-17



LANDSCAPE SPECIFICATIONS

- 1.1. WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:
- 1.1.1. THESE GENERAL NOTES, CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.
- 1.1.2. ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, ORDINANCES AND REGULATIONS. 1.2. IF SITE DISCREPANCIES ARE PRESENT, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE
- IMMEDIATELY. IF CONTRACTOR CONTINUES WORK WITHOUT THE PROPER NOTIFICATION, CONTRACTOR DOES SO AT HIS OWN RISK
- 1.3. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, SUPERVISION, AND EQUIPMENT REQUIRED FOR THE WORK AS SHOWN ON THE CONSTRUCTION DOCUMENTS DESCRIBED HEREIN. 1.4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUB-CONTRACTORS AS REQUIRED TO
- COMPLETE THE WORK OF THIS PROJECT. 1.5. CONTRACTOR SHALL VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER CONTRACTS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT OWNER'S REPRESENTATIVE FOR INSTRUCTIONS PRIOR TO COMMENCING WORK.
- 1.6. CONTRACTOR TO NOTIFY "SUNSHINE STATE ONE CALL OF FLORIDA, INC." AT 1-800-432-4770 TWO FULL BUSINESS DAYS PRIOR TO DIGGING FOR UNDERGROUND UTILITY LOCATIONS.
- 1.7. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL UTILITY LOCATIONS AND INSTALLING FACILITIES SO AS TO NOT CONFLICT. THE LOCATION OF EXISTING UTILITIES OR SITE FEATURES AS SHOWN ON THE PLANS MAY VARY IN RELATION TO ACTUAL EXISTING CONDITIONS. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT AND THE OWNER IN WRITING. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF THE CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE LANDSCAPE ARCHITECT AND THE OWNER.
- 1.8. CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, WATER, SANITARY SEWER, POWER, NATURAL GAS, TELEPHONE AND CABLE TV COMPANIES
- 1.9. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
- 1.10. PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE AND BY HAND, IF NECESSARY. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OF DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AND AT NO EXPENSE TO THE OWNER
- 1.11. THE SUCCESSFUL BIDDER SHALL FURNISH TO THE OWNER A UNIT PRICE BREAKDOWN FOR ALL MATERIALS. THE OWNER MAY, AT ITS DISCRETION, ADD OR DELETE FROM THE MATERIALS UTILIZING THE UNIT PRICE BREAKDOWN SUBMITTED.
- 1.12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL PERMIT CONDITIONS.

2. PRE-CONSTRUCTION RESPONSIBILITY

- 2.1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE LANDSCAPE ARCHITECT, ANY OTHER PERTINENT PARTIES AND HIMSELF.
- 2.2. CONTRACTOR SHALL PROVIDE TEMPORARY SANITARY FACILITIES ONSITE. LOCATION TO BE DETERMINED BY THE OWNER. JANITORIAL SERVICES SHALL BE PROVIDED BY CONTRACTOR THROUGHOUT THE DURATION OF
- 2.3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION
- 2.4. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS; THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT
- 2.5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS FOR THE FIELD LOCATIONS AND FOR ANY TREES PROPOSED FOR RELOCATION. THIS SHALL BE DONE IN A TIMELY MANNER TO MINIMIZE IMPACT ON CONSTRUCTION SCHEDULE. ANY DELAY CAUSED BY THE CONTRACTOR BY THE RELOCATION OF TREES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- 2.6. CONTRACTOR SHALL VERIFY LIMITS OF CONSTRUCTION AS NOTED ON THE PLANS. ANY WORK PERFORMED JTSIDE OF THE AGREED UPON LIMITS OF CONSTRUCTION SHALL BE DONE AT THE EXPENSE OF TH CONTRACTOR.

- 3.1. ITEMS SHALL REMAIN UNLESS OTHERWISE NOTED ON THE PLAN(S). REMOVE DESIGNATED ITEMS SHOWN ON THE PLAN TO THE FULL DEPTH OF THEIR CONSTRUCTION UNLESS OTHERWISE NOTED.
- 3.2. ALL HARDSCAPE DESIGNATED FOR REMOVAL SHALL BE SAW CUT, LEAVING UNIFORM EDGES TO THE GREATEST EXTENT POSSIBLE. MATERIAL EDGES TO REMAIN SHALL BE SHORED UP AND PROTECTED DURING CONSTRUCTION TO PRESERVE EDGE INTACT. REPAIRS TO DAMAGED EDGES SHALL BE REPAIRED BY
- 3.3. NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS NOTED ON THE PLANS OR APPROVED DURING THE SHOP DRAWING APPROVAL PROCESS.

CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

- 3.4. SALVAGE EXISTING MATERIALS AS INDICATED ON THE PLANS. SALVAGED MATERIALS SHALL BE HANDLED WITH CARE AND STORED ON-SITE OR AS DIRECTED BY OWNER. CLEAN ALL DEBRIS AND CONSTRUCTION MATERIAL FROM SALVAGED ITEMS; REUSE AS DIRECTED BY OWNER'S REPRESENTATIVE.
- 3.5. REMOVE DEMOLISHED MATERIALS FROM SITE AND DISPOSE OF AS REQUIRED BY LOCAL, STATE OR FEDERAL LAWS.
- 3.6. CONTRACTOR SHALL PROTECT ADJACENT WATER BODIES, COASTAL DUNE SYSTEMS AND PROPERTIES FROM
- DAMAGE BY SEDIMENTATION OR OTHER POTENTIAL CONSTRUCTION RELATED CAUSES.
- 3.7. ALL IRRIGATION IN DEMOLITION AREA TO BE CAPPED AND ADJUSTED AS NECESSARY TO ENSURE OVERALL SYSTEM IS NOT AFFECTED.

- 4.1. ALL TREES TO BE PRESERVED AS INDICATED ON THE TREE DISPOSITION PLAN SHALL BE PROTECTED BY A
- TREE PROTECTION BARRICADE, UNLESS OTHERWISE NOTED ON PLAN. 4.2. TREE PROTECTION BARRICADES SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AROUND THE DRIP LINE OF
- EXISTING TREES TO BE PRESERVED IN PLACE, AS SHOWN ON PLAN. PRESERVATION BARRICADES SHALL BE LEFT IN PLACE THROUGHOUT DURING ALL PHASES OF CONSTRUCTION. 4.3. PRIOR TO ANY CONSTRUCTION A TREE PROTECTION BARRICADE INSPECTION SHALL BE CONDUCTED BY THE LANDSCAPE ARCHITECT, OWNER OR GOVERNING MUNICIPALITY. REFER TO PLANS FOR TREE PRESERVATION
- BARRICADE FENCING DETAIL 4.4. IF EXCAVATION IN THE VICINITY OF A PROTECTED TREE IS REQUIRED, CONTRACTOR SHALL ROOT PRUNE TREES, UNDER THE SUPERVISION OF A CERTIFIED ARBORIST IN ACCORDANCE TO THE FOLLOWING
- CONDITIONS 4.4.1. ROOT PRUNE TREES A MINIMUM OF EIGHT (8) WEEKS PRIOR TO CONSTRUCTION. PRIOR TO ROOT PRUNING,
- THOROUGHLY WATER THE ROOT ZONE WITH AT LEAST 2 TO 3 INCHES OF WATER FOR 2 TO 3 DAYS PRIOR TO ROOT PRUNING. SEE BELOW FOR RELOCATION TIMELINE PROVIDE TEMPORARY IRRIGATION FOR EACH TREE THROUGHOUT THE DURATION OF CONSTRUCTION. 2. ROOT PRUNE TREES, SHOWN ON PLAN IN AREAS WHERE ROOTS WILL CONFLICT WITH CONSTRUCTION ACTIVITY. PRUNING OF ROOTS SHOULD BE DONE IN A MANNER TO PRESERVE THE GREATEST AMOUNT OF THE ROOT BASE AS POSSIBLE.
- 3. BACKFILL TRENCH WITH PLANTING SOIL. FERTILIZE WITHIN THE ROOT ZONE (SEE BELOW).
- 4.4.2. ROOT PRUNING SHALL BE ACCOMPLISHED BY DIGGING A TRENCH AROUND THE TREE IN AREAS WHERE PROPOSED SITE WORK WILL BE PERFORMED. TRENCHING SHALL BE AT A MINIMUM OF 24" DEEP. ROOT PRUNE ONLY WITH A MECHANICAL ROOT-PRUNING SAW OR A TRENCHER WITH A MAXIMUM TRENCH WIDTH
- 4.4.3. ALL EXPOSED ROOTS SHALL BE CUT OFF SMOOTHLY, WITH SHARP INSTRUMENTS. BACKFILL TRENCHES WITH SOIL CONSISTING OF 30% SILICA SAND AND 70% MUCK. WATER THOROUGHLY AFTER ROOT PRUNING. AND ONCE WEEKLY DURING THE ROOT REGENERATION PERIOD, WITH A SOLUBLE FERTILIZER THAT HAS A 20.20.20 ANALYSIS AT MANUFACTURER'S RECOMMENDED RATE.
- 4.5. THE CONTRACTOR SHALL FIELD STAKE THE LIMIT OF ROOT PRUNING. LIMITS OF ROOT PRUNING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ANY EXCAVATION. DO NOT ROOT PRUNE FOR IRRIGATION OR ELECTRICAL LINES WITHIN DRIP LINES OF EXISTING TREES. COORDINATE ALL TRENCHING REQUIRED FOR UTILITY WORK WITH THE LANDSCAPE PLANS.
- 4.6. ROOT PRUNING SHALL OCCUR IN ACCORDANCE WITH TREE RELOCATION NOTES AS NOTED ON PLANS.
- ALL TREES SHALL BE PLANTED WITH A MINIMUM OF 12" TOPSOIL AROUND AND BENEATH THE ROOTBALL. 5.2. ALL TREES SHALL BE PLANTED WITH A MINIMUM OF 6" TOPSOIL AROUND AND BENEATH THE ROOTBALL. 5.3 MINIMUM TOPSOIL SHALL BE 2" FOR SODDED GRASS AREAS
- 5.4. PLANTING SOIL MIX SHALL BE A WEED FREE MIX AS FOLLOWS 5.4.1. DICOT TREES & SHRUBS: 50% SAND, 40% MUCK & 10% PEAT
- 5.4.2. MONOCOT PALMS: 70% SAND & 30% MUCK 5.4.3. TURF: 80% SAND, 10% PEAT & 10% MUCK
- 6.1. THIS PLAN HAS BEEN DESIGNED TO MEET OR EXCEED ALL APPLICABLE CODES.

- 6.2. THE PLANTING PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL EXISTING CODES AND APPLICABLE DEED RESTRICTIONS.
- 6.3. PLANT MATERIAL: ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER AS ESTABLISHED BY "GRADES AND STANDARDS FOR NURSERY PLANTS" OF THE STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
- 6.4. ALL PLANT MATERIAL SHALL BE TRUE TO THE BOTANICAL NAME, GENUS, SPECIES AND/OR HYBRID 6.5. ALL TREES, SHRUBS AND GROUNDCOVERS SHALL BE OF THE SIZES (HEIGHT & SPREAD) AS SPECIFIED IN THE PLANT LIST. CONTAINER SIZE IS FOR REFERENCE PURPOSES ONLY. ALL PLANT MATERIAL SHALL MEET OR
- EXCEED THE MINIMUM SIZES AT INSTALLATION, AS SPECIFIED IN THE PLANT LIST 6.6. QUANTITIES LISTED ON THE PLANT LIST ARE FOR ESTIMATING PURPOSES, CONTRACTOR SHALL VERIFY ALL QUANTITIES. MULCH, TOPSOIL, FERTILIZER, ETC. SHALL BE INCLUDED IN THE UNIT COST OF THE PLANTS. WHERE THERE IS A DISCREPANCY EITHER IN QUANTITIES, PLANT NAMES, SIZES OR SPECIFICATIONS
- BETWEEN THE PLAN OR PLANT LIST, THE PLAN TAKES PRECEDENCE. 6.8. ALL SUBSTITUTIONS AND CHANGES SHALL BE APPROVED IN WRITING PRIOR TO INSTALLATION. ANY DISCREPANCIES BETWEEN PLANS, SITE AND SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE
- ATTENTION OF THE LANDSCAPE ARCHITECT, THE OWNER AND/OR GOVERNING MUNICIPALITY. 6.9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FINAL GRADING OF ALL ASSOCIATED PLANTING AREAS. 6.10. AFTER FINAL GRADE, LANDSCAPE AREAS ARE TO BE RAKED TO A DEPTH OF 6". ALL ROCK AND FOREIGN
- INORGANIC MATERIALS SHALL BE REMOVED AND DISPOSED OF PROPERLY OFF-SITE. 6.11. ALL PLANTING HOLES TO BE HAND DUG EXCEPT WHERE MACHINE DUG HOLES WILL NOT ADVERSELY AFFECT EXISTING TREES. DAMAGE UTILITIES OR OTHER IMPROVEMENTS.
- 6.12. ALL PLANTING BEDS IN OPEN AREAS AND AROUND BUILDING FOUNDATIONS SHALL BE EXCAVATED TO A DEPTH OF TWENTY-FOUR INCHES (24") AND BACK FILLED WITH SOIL MIX AS SPECIFIED IN SECTION 5.00. PLANTING BED SHALL BE FREE FROM ROCK, CONSTRUCTION DEBRIS OR OTHER EXTRANEOUS MATERIAL. 6.13. ALL PLANTING BEDS IN MEDIANS. HARDSCAPE AREAS OR AREAS ENCOMPASSED BY IMPERVIOUS MATERIAL SHALL BE EXCAVATED TO A DEPTH OF THIRTY-SIX INCHES (36") OR UNTIL NATIVE SOILS ENCOUNTERED TO
- ENSURE DRAINAGE. BACK FILL WITH SOIL MIX AS SPECIFIED IN SECTION 5.00. PLANTING BED SHALL BE FREE FROM ROCK, CONSTRUCTION DEBRIS OR OTHER EXTRANEOUS MATERIAL. 6.14. EXCAVATE PLANTING PITS TO A DEPTH SO THAT THE TRUNK FLARE AND FIRST ORDER LATERAL ROOT(S) WILL BE PLANTED AT FINISH GRADE OR SLIGHTLY HIGHER. ADVENTITIOUS ROOTS ARE NOT CONSIDERED FIRST
- 6.15. BURLAP, SYNTHETIC STRING, CORDS AND/OR LIFTING ROPES SHALL BE REMOVED FROM THE ROOTBALLS BEFORE ANY TREES ARE PLANTED. THE TOP 1/3RD OF BURLAP MUST BE REMOVED FROM HE TOP OF THE ROOTBALLS. THE TOP 1/3RD OF WIRE BASKETS SHALL BE COMPLETELY REMOVED AND THE BOTTOM 2/3RDS SHALL BE CUT BEFORE THE TREES ARE INSTALLED.
- 6.16. NO PLUNGING OF ANY TREE OR PALM WILL BE ACCEPTED. 6.17. NO PLANT MATERIAL WILL BE ACCEPTED SHOWING EVIDENCE OF CABLE, CHAIN MARKS, EQUIPMENT SCARS, OR OTHERWISE DAMAGED.
- 6.18. PLANT MATERIAL WILL NOT BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN CRACKED BROKEN OR OTHERWISE DAMAGED.
- 6.19. ALL TREES SPECIFIED AS FIELD GROWN OR B&B TREES SHALL BE ROOT-PRUNED AT THE NURSERY A MINIMUM OF (8) WEEKS PRIOR TO PLANTING
- 6.20. ALL PLANT MATERIAL PLANTED WITHIN THE SIGHT DISTANCE TRIANGLE AREAS SHALL BE MAINTAINED TO PROVIDE UNOBSTRUCTED CROSS-VISIBILITY AT A HORIZONTAL LEVEL BETWEEN 30 INCHES AND 8 FEET ABOVE ADJACENT STREET GRADE. 6.21. NO CANOPY TREES SHALL BE PLANTED WITHIN 12 FEET OF A LIGHT POLE. NO PALM SPECIES SHALL BE
- PLANTED WITHIN 6 FEET OF A LIGHT POLE. 6.22. GROUND COVER PLANTINGS SHALL PROVIDE NOT LESS THAN 50 PERCENT COVERAGE IMMEDIATELY UPON PLANTING AND 100 PERCENT COVERAGE WITHIN 6 MONTHS AFTER PLANTING
- 6.23. TREES AND PALMS SHALL BE MAINTAINED TO ALLOW FOR CLEAR PASSAGE 8' IN ALL PEDESTRIAN AREAS. 6.24. ALL LANDSCAPE MATERIAL SHALL BE SETBACK A MINIMUM OF 10' FROM ANY FIRE HYDRANT. 6.25. CONTRACTOR SHALL REMOVE ALL NURSERY STAKES, CONDUIT, FLAGGING AND NURSERY TAPE PRIOR TO
- 6.26. CONTRACTOR SHALL STAKE & GUY ALL TREES AND PALMS AT TIME OF PLANTING AS PER THE APPROPRIATE DETAIL CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND/OR REPAIR OF ALL STAKING AND GUYING DURING WARRANTY PERIOD AND REMOVAL & DISPOSAL OF STAKING AFTER ESTABLISHMENT/WARRANTY
- 6.27. TREES THAT CANNOT STAND WITHOUT THE SUPPORT OF STAKES AND/OR GUYS SHALL BE REJECTED. TURF GRASSES
- ALL AREAS NOT USED FOR BUILDINGS, VEHICULAR USE AREAS, WALKS OR PLANTING BEDS SHALL BE GRASSED. GRASSING SHALL EXTEND TO ANY ABUTTING STREET PAVEMENT EDGE AND TO THE MEAN WATERLINE OF ANY ABUTTING CANAL, LAKE OR WATERWAY. REFER TO PLANTING SCHEDULE FOR ESTIMATED QUANTITY AND SPECIES.
- MULCH & FERTILIZER ALL PLANTING BEDS AND WATER BASINS FOR TREES SHALL BE COVERED WITH A 3" MINIMUM DEPTH OF SHREDDED FLORI-MULCH, MELALEUCA OR EUCALYPTUS MULCH GRADE 'B' OR BETTER, UNLESS OTHERWISE SPECIFIED.
- INDIVIDUAL TREES PLANTED IN LAWN AREAS SHALL BE MULCHED WITH A MINIMUM 3' DIAMETER MULCH RING. MULCH SHALL NOT BE INSTALLED WITHIN 3" OF TREE TRUNKS.
- 8.4. FERTILIZER MIX AS FOLLOWS:
- DICOT TREES & SHRUBS: NPK 18-4-2, SLOW RELEASE W/ MICRONUTRIENTS MONOCOT PALMS: NPK 8-2-12, SLOW RELEASE W/ MICRONUTRIENTS
- TURF: NPK 16-4-8, SLOW RELEASE W/ MICRONUTRIENTS
- ALL LANDSCAPED AREAS WILL BE IRRIGATED BY AN UNDERGROUND, AUTOMATIC, RUST-FREE IRRIGATION SYSTEM PROVIDING 100% COVERAGE AND 50% SPRAY OVERLAP. THE SYSTEM SHALL BE MAINTAINED IN GOOD WORKING ORDER AND DESIGNED TO MINIMIZE WATER ON IMPERVIOUS SERVICES AND NOT OVERSPRAY WALKWAYS. A RAIN SENSOR DEVICE SHALL BE INSTALLED TO OVERRIDE THE IRRIGATION CYCLE OF THE SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED.
- 9.2. ALL PLANT MATERIAL SHALL BE WATERED IN AT TIME OF PLANTING IN ACCORDANCE WITH STANDARD NURSERY PRACTICES. IN ADDITION. CONTRACTOR WILL CONTINUE THE WATERING OF PLANT MATERIAL UNTIL SUBSTANTIAL COMPLETION AND THE LANDSCAPE IS TURNED OVER TO THE OWNER.
- DURING CONSTRUCTION THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH, THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.
- 10.2. THE CONTRACTOR SHALL RESTORE, REPLACE OR AS DIRECTED BY THE LANDSCAPE ARCHITECT, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY THE WORK OF THE CONTRACTOR, HIS EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUB-CONTRACTORS. THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT OF THE EXISTING ADJACENT AREAS. THE RESTORATION WORK SHALL BE AT THE CONTRACTOR'S EXPENSE. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
- 10.3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK. THESE AREAS SHALL BE KEPT IN A CLEAN AND NEAT CONDITION.
- 10.4. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED. 10.5. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT OF RECORD COMPLETE SETS OF "AS-BUILT" CONSTRUCTION DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS INCLUDING PRODUCT/EQUIPMENT AS SPECIFIED OR REVISED DURING THE SHOP DRAWING SUBMITTAL PROCESS. AS-BUILT DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR.
- ALL NEW PLANT MATERIAL SHALL BE GUARANTEED FOR 1 YEAR FROM TIME OF FINAL ACCEPTANCE OF PROJECT. ANY PLANT MATERIAL NOT IN A HEALTHY GROWING CONDITION WILL BE REPLACED IN KIND BY THE
- CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER WITHIN 10 DAYS OF NOTIFICATION. 11.2. FOR ALL REPLACEMENT PLANT MATERIAL, THE WARRANTY PERIOD SHALL BE EXTENDED AN ADDITIONAL 90 DAYS BEYOND THE ORIGINAL WARRANTY PERIOD. REPLACEMENT MATERIAL SHALL BE REPLACED IN KIND AS IT
- RELATES TO SPECIES. QUANTITY AND SIZE 11.3. ALL TREES THAT LEAN OR ARE BLOWN OVER, CAUSED BY WINDS LESS THAN 74 MPH AS DETERMINED BY THE NATIONAL HURRICANE CENTER, WILL BE RE-SET AND BRACED BY THE CONTRACTOR AT NO ADDITIONAL COST

WITH 6" CALIPER OR LESS.

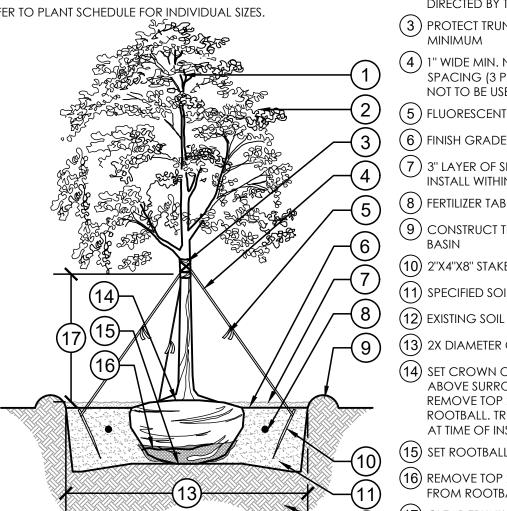
CALIPER MEASUREMENT IS 6" FROM TOP OF ROOT BALL FOR TREES (1) DO NOT PRUNE CENTRAL LEADER CALIPER MEASUREMENT IS 12" FROM TOP OF ROOT BALL FOR

LARGE TREE PLANTING: 2" CALIPER AND GREATER

SPACE PLANTINGS AS SPECIFIED

REFER TO PLANT SCHEDULE FOR INDIVIDUAL SIZES.

TREES WITH 6" CALIPER GREATER.



MULCH BED (TYP.)

ON CENTER SPACING (TYP.) -

REFER TO PLANT SCHEDULE

(2) PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING USING ACCEPTABLE NURSERY PRACTICES OR AS DIRECTED BY THE LANDSCAPE ARCHITECT

(3) PROTECT TRUNK WITH 3 LAYERS OF BURLAP 4) 1" WIDE MIN. NYLON STRAPPING AT EQUAL SPACING (3 PER TREE) GUY WIRES SHALL NOT TO BE USED

(5) FLUORESCENT MARKING FLAG (6) FINISH GRADE

(7) 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK

(8) FERTILIZER TABLET IF APPLICABLE (9) CONSTRUCT TEMPORARY 3" WATERING

(10) 2"X4"X8" STAKE: SET 2" BELOW FINISH GRADE (11) SPECIFIED SOIL MIX

(13) 2X DIAMETER OF THE ROOTBALL 14) SET CROWN OF ROOT BALL SLIGHTLY ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL. TRUNK TAPER SHALL BE VISIBLE

AT TIME OF INSTALLATION (15) SET ROOTBALL ON UNDISTURBED SOIL (16) REMOVE TOP 2/3 OF BURLAP/WIRE BASKET FROM ROOTBALL (17) CLEAR TRUNK: REFER TO PLANT SCHEDULE

329343-17

TREE PRESERVATION FENCING

NO ENTRY OR STORAGE

NO DRIP LINE

1/4" = 1'-0"

ENCROACHMENT

 $oxed{2}$ set crown of root slightly above

DIMENSION VARIES PER CRITICAL

PROTECTION ZONE

CRITICAL PROTECTION ZONE: THE AREA

SURROUNDING A TREE WITHIN A CIRCLE

DESCRIBED BY A RADIUS OF ONE FOOT FOR

54" ABOVE FINISHED GRADE. FOR GROUPS

*TREE PROTECTION BARRICADES SHALL BE

LOCATED TO PROTECT A MINIMUM OF 75%

ADJUST AS NECESSARY TO ACCOMMODATE

- SECURELY AFFIX FENCE TO STRINGER

WITH NAILS OR STAPLES (TYP.)

- 4' HT. BARRICADE FENCE OF

ORANGE "TENSOR" HIGH

- 2"X4" MIN. WOOD POST

- EXISTING UNDISTURBED SOIL

VISIBILITY MESH

2"X4" STRINGER/TOP RAIL

PROPOSED SITE IMPROVEMENTS; REFER TO

OF TREES, PLACE BARRICADES BETWEEN

TREES AND CONSTRUCTION ACTIVITY.

OF THE CRITICAL PROTECTION ZONE.

TREE DISPOSITION NOTES.

4' MINIMUM/

O.C. SPACING

✓ 8' MAXIMUM

- TREE DRIPLINE

EACH INCH OF THE TREE TRUNK DIAMETER AT

- (3) 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
- (4) CONSTRUCT TEMPORARY 3" WATERING
- (5) FINISH GRADE
- $(\,6\,)$ FERTILIZER TABLET IF APPLICABLE. (7) BACKFILL WITH SPECIFIED SOIL MIX
- (8) EXISTING SOIL
- (9) 2X DIAMETER OF THE ROOTBALL

SHRUB/GROUND COVER PLANTING & SPACING

(1) PLANT MATERIAL SHALL NOT BE PRUNED PRIOR TO INSTALLATION: AFTER PLANTS HAVE BEEN INSTALLED, EACH PLANT SHALL BE PRUNED FOR UNIFORMITY

329333-08

TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION

SURROUNDING FINISH GRADE: TRUNK

329333-08

TE

DRC SUBMITTAL 08-28-17

CONSULTAN

&ASSOCIATES



DRAWING TITLE:

DRAWN

DATE

SCALE

SHEET:

CHECKED

DETAILS

PROJECT NO. 1559A

06.23.17

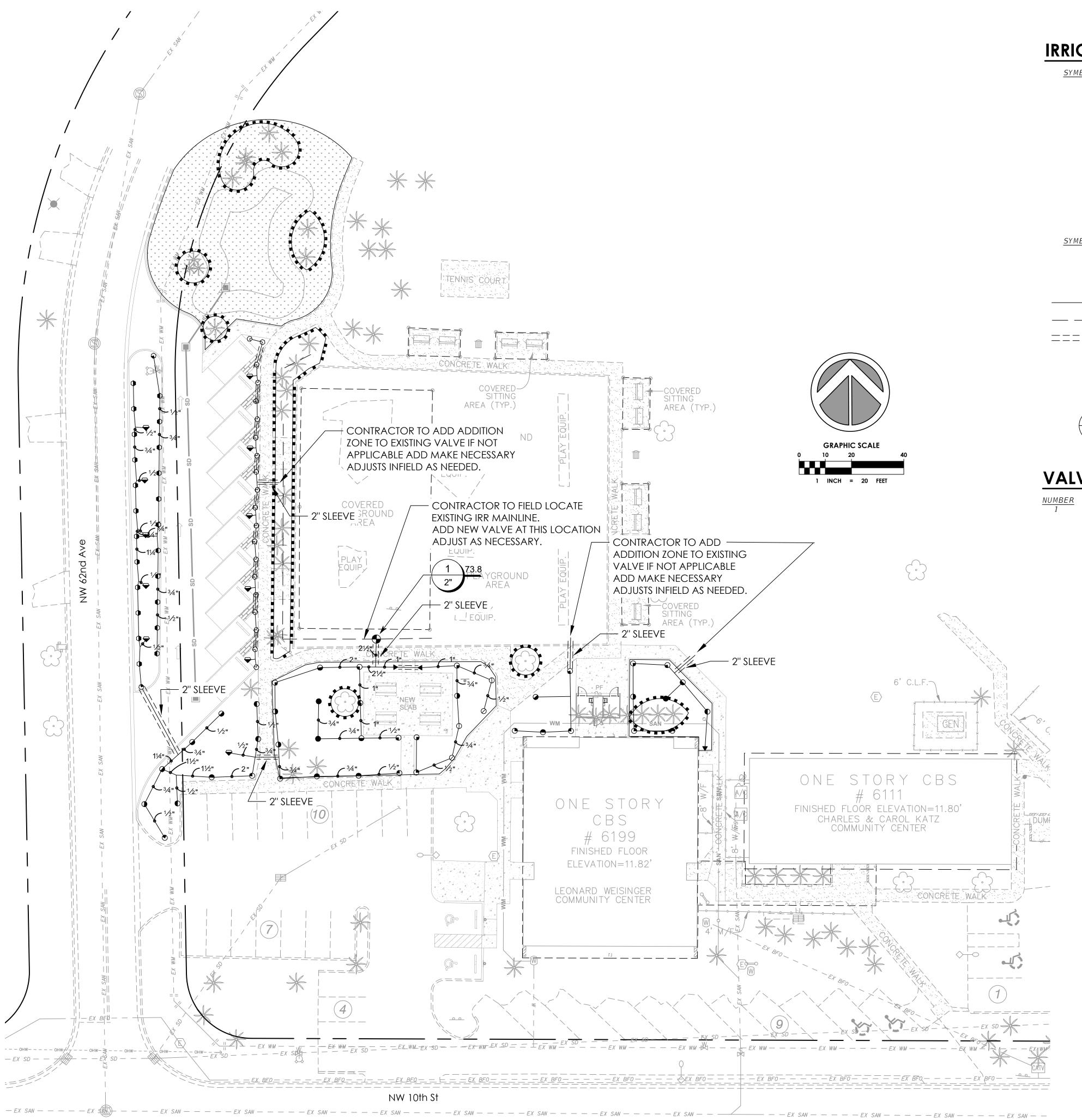
AS NOTED

ERIC HARRISON, RLA

LICENSE NO. 6667129 STATE OF FLORIDA

DATE: 08.28.17

100% DRC SUBMITTA



IRRIGATION SCHEDULE

| <u>SYMBOL</u> | MANUFACTURER/MODEL | QTY | <u>ARC</u> | <u> PSI</u> | <u>GPM</u> | RADIUS |
|---------------|--|------------|------------|-------------|------------|----------|
| ◄ | Rain Bird RD-06-S-NP-U 15 Strip Series | 3 | EST | 30 | 0.61 | 4' x 15' |
| ③ | Rain Bird RD-06-S-NP-U U8 Series | 20 | 90 | 30 | 0.26 | 8' |
| • | Rain Bird RD-06-S-NP-U U10 Series | 23 | 180 | 30 | 0.82 | 10' |
| • | Rain Bird RD-06-S-NP-U U10 Series | 2 | 90 | 30 | 0.41 | 10' |
| Φ | Rain Bird RD-06-S-NP-U U12 Series | 4 | 180 | 30 | 1.30 | 12' |
| • | Rain Bird RD-06-S-NP-U U15 Series | 3 | 360 | 30 | 3.70 | 15' |
| • | Rain Bird RD-06-S-NP-U U15 Series | 22 | 180 | 30 | 1.85 | 15' |
| • | Rain Bird RD-06-S-NP-U U15 Series | 16 | 90 | 30 | 0.92 | 15' |
| <u>SYMBOL</u> | MANUFACTURER/MODEL/DESCRIPTION | <u>QTY</u> | | | | |
| | Rain Bird PEB-NP-HAN 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Purple Handle for Non-Potable Water Use. | 1 | | | | |
| | Irrigation Lateral Line: PVC Class 200 SDR 21 | 1,131 l.f. | | | | |
| | Irrigation Mainline: PVC Class 160 SDR 26-NP | 150.3 l.f. | | | | |
| ====== | Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction. | 143.0 l.f. | | | | |

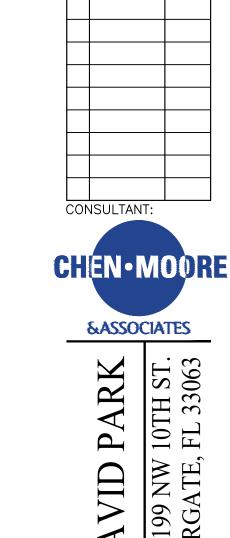
VALVE SCHEDULE

NUMBER MODEL SIZE TYPE GPM WIRE Turf Spray 73.80

Valve Callout ———Valve Number

ERIC HARRISON, RLA
LICENSE NO. 6667129
STATE OF FLORIDA

100% DRC SUBMITTAL



DRC SUBMITTAL 08-28-17

SZ ARCHITECTS, INC EST BROWARD BOULEVARD ATION, FLORIDA 33317

DRAWING TITLE:

IRRIGATION PLAN

DRAWN

CHECKED CP

DATE 06.23.17

SCALE AS NOTED

PROJECT NO. 1559A

12.00

- 1.1. THE SYSTEM HAS BEEN DESIGNED TO CONFORM WITH THE REQUIREMENTS OF ALL APPLICABLE CODES. SHOULD ANY CONFLICT EXIST, THE REQUIREMENTS OF THE CODES SHALL PREVAIL. IT IS THE RESPONSIBILITY OF THE OWNER/INSTALLATION CONTRACTOR TO INSURE THE ENTIRE SYSTEM IS INSTALLED ACCORDING TO ALL APPLICABLE LAWS, RULES, REGULATIONS AND CONVENTIONS. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS ACCORDING TO FEDERAL, STATE AND LOCAL LAWS.
- 1.2. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
- 1.3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
- 1.4. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND VERIFY PROPER CLEARANCE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR
- 1.5. THE CONTRACTOR MUST SUBMIT FOR APPROVAL, PRIOR TO INSTALLATION, COPIES OF THE MANUFACTURER'S CUT SHEETS/SPECIFICATIONS FOR ALL COMPONENTS TO BE USED IN THE IRRIGATION SYSTEM.
- 1.6. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED AS A CERTIFIED IRRIGATION CONTRACTOR BY THE IRRIGATION ASSOCIATION. THE CERTIFICATION 8. ELECTRICAL POWER SUPPLY
- 2.1. THE WORK SPECIFIED IN THIS SECTION CONSISTS OF FURNISHING ALL COMPONENTS NECESSARY FOR THE INSTALLATION, TESTING, AND DELIVERY OF A COMPLETE, FULLY FUNCTIONAL AUTOMATIC LANDSCAPE IRRIGATION SYSTEM THAT COMPLETELY COMPLIES WITH THE 100% IRRIGATION PLANS, SPECIFICATIONS, NOTES, DETAILS AND ALL APPLICABLE LAWS, REGULATIONS, CODES AND ORDINANCES. THIS WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE PROVIDING OF ALL REQUIRED MATERIAL (PIPE, VALVES, FITTINGS, CONTROLLERS, WIRE, PRIMER, GLUE, ETC.), LAYOUT, PROTECTION OF THE 9. VALVES, CLEANUP, MAINTENANCE, GUARANTEE AND AS-BUILT PLANS.
- 2.2. ALL IRRIGATED AREAS SHALL PROVIDE 100% HEAD-TO-HEAD COVERAGE FROM A FULLY AUTOMATIC IRRIGATION SYSTEM WITH A RAIN SENSOR AS SHOWN. THE RAIN SENSOR SHALL BE INSTALLED TO PREVENT ITS ACTIVATION BY ADJACENT HEADS. ALL WATERING PROCEDURES SHALL CONFORM TO LOCAL CODES, AS WELL AS THIS PROJECT'S REGIONAL WATER MANAGEMENT DISTRICT RESTRICTIONS AND REGULATIONS. ZONES ARE PRIORITIZED FIRST BY PUBLIC SAFETY AND THEN BY HYDRAULIC CONCERNS. THIS SEQUENCING WILL BE A MANDATORY PUNCH LIST ITEM. THESE PLANS HAVE BEEN DESIGNED TURF AND LANDSCAPE IRRIGATION SYSTEMS, FOURTH EDITION
- 2.3. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES 72 HOURS PRIOR TO COMMENCEMENT OF WORK
- 2.4. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTION, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS, OR DIFFERENCES, SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER' AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY 10. CONTROLLER GROUNDING
- 2.5. IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING SITE ITEMS DAMAGED BY THEIR WORK. IRRIGATION CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS
- 2.6. THE CONTRACTOR SHALL TAKE IMMEDIATE STEPS TO REPAIR, REPLACE, OR RESTORE ALL SERVICES TO ANY UTILITIES WHICH ARE DISRUPTED DUE TO THEIR OPERATIONS. ALL COSTS INVOLVED IN DISRUPTION OF SERVICE AND REPAIRS DUE TO NEGLIGENCE ON THE PART OF THE CONTRACTOR SHALL BE 11. VALVES THE CONTRACTOR'S RESPONSIBILITY.
- 3.1. THE CONTRACTOR SHALL PROVIDE FOR APPROVAL PRIOR TO INSTALLATION, MANUFACTURER'S PRODUCT DESCRIPTION SHEETS/SPECIFICATIONS FOR ALL 11.2. ADJUST THE FLOW CONTROL ON EACH RCV TO ENSURE SHUT OFF IN 10 SECONDS AFTER DEACTIVATION BY THE IRRIGATION CONTROLLER.
- MAJOR COMPONENTS OF THE IRRIGATION SYSTEM. MODEL NUMBERS SHALL BE HIGHLIGHTED OR CIRCLED 3.2. NO SUBSTITUTIONS OR DEVIATIONS FROM THE SPECIFIED BRANDS, MODELS, OR SIZES SHALL BE PERMITTED, EXCEPT WITH WRITTEN APPROVAL FROM 12. EQUIPMENT
- 3.3. ANY MAJOR DESIGN CHANGES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO CONSTRUCTION; CONTRACTOR 12.2. ALL POP-UP HEADS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO CONSTRUCTION; CONTRACTOR 12.2. PROCEEDS WITH CHANGES AT OWN RISK. DESIGN CHANGES, SUBSTITUTIONS, OR DEVIATIONS NOT APPROVED BY THE LANDSCAPE ARCHITECT OF RECORD WILL RESULT IN REJECTION AND REPLACEMENT OF MATERIALS AT NO ADDITIONAL COST TO THE OWNER.

4. POST CONSTRUCTION DOCUMENTATION

- 4.1.1. PROVIDE THE MANUFACTURERS' RECOMMENDED OPERATING INSTRUCTIONS FOR ALL MAJOR COMPONENTS INCORPORATED INTO THE IRRIGATION SYSTEM. PROVIDE SYSTEM OPERATION MANUALS, MAINTENANCE SCHEDULES, RECOMMENDED SCHEDULE OF OPERATION INCLUDED AVERAGE APPLICATION RATES
- 4.1.3. PROVIDE ALL REQUIRED TESTING AND INSPECTION CERTIFICATES TO THE OWNER OR OWNER'S REPRESENTATIVE 4.2. AS-BUILT DRAWINGS: PROVIDE RECORD DRAWINGS AND PLANS SHOWING ALL CHANGES IN THE DESIGN TO INDICATE THE ACTUAL INSTALLATION AND
- LOCATION OF ALL EQUIPMENT AND MATERIALS. THE FOLLOWING SPECIFIC ITEMS MUST BE INCLUDED
- 4.2.1. LOCATION AND SIZE OF MAINLINE PIPING, LATERAL PIPING, AND PIPE SLEEVING. 4.2.2. ISOLATION VALVES
- 4.2.3. REMOTE CONTROL VALVE LOCATIONS, SIZES, NUMBER, AND AREA OF COVERAGE SHOWN USING DIFFERENT COLORS. 4.2.4. SPLICE BOXES AND LOW VOLTAGE WIRING PATH.
- CONTROLLER AND RAIN SHUTOFF DEVICES
- 4.2.6. POINT OF CONNECTION INCLUDING THE TYPE OF WATER SOURCE, SIZE, FLOW RATE, AND OPERATING PRESSURE. 4.2.7. DATE AND SCALE.
- 4.2.8. CONTRACTOR'S NAME, ADDRESS, AND TELEPHONE NUMBER. 4.2.9. THE AS-BUILT DRAWINGS SHALL BE SIGNED BY A FLORIDA REGISTERED LANDSCAPE ARCHITECT OR PROFESSIONAL ENGINEER.
- 4.3. CONTRACTOR SHALL FURNISH FIVE EXTRA UNITS OF EACH TYPE OF POPUP SPRAY AND EMITTER THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS. INCLUDE TOOLS TO SERVICE THESE 5. FINAL ACCEPTANCE
- 5.1. FINAL ACCEPTANCE OF THE IRRIGATION SYSTEM WILL BE GIVEN AFTER THE FOLLOWING DOCUMENTS AND CONDITIONS HAVE BEEN COMPLETED AND
- APPROVED. FINAL PAYMENT WILL NOT BE RELEASED UNTIL THESE CONDITIONS ARE SATISFIED.
- 5.1.1. FINAL WALK-THRU AND CORRECTION OF ALL PUNCH LIST ITEMS. 5.1.2. COMPLETION AND ACCEPTANCE OF AS-BUILT RECORD DRAWINGS.
- 5.1.3. TURNOVER OF ALL REQUIRED PARTS AND TOOLS AS OUTLINED IN THE PROJECT SPECIFICATIONS.
- 6.1. FULLY WARRANT THE LANDSCAPE IRRIGATION SYSTEM FOR A PERIOD OF ONE (1) YEAR AFTER THE WRITTEN FINAL ACCEPTANCE.
- 6.2. DURING THE WARRANTY PERIOD, ENFORCE MANUFACTURER'S AND SUPPLIER'S WARRANTIES. MALFUNCTIONS, DEFICIENCIES, BREAKS, DAMAGES, DISREPAIR OR OTHER DISORDERS DUE TO MATERIALS, WORKMANSHIP, OR INSTALLATION BY THE CONTRACTOR AND HIS SUPPLIERS SHALL BE IMMEDIATELY AND
- 6.3. REPAIR DAMAGES PROMPTLY WHICH ARE CAUSED BY SYSTEM MALFUNCTION.

- 7.1. THE POC IS ASSUMED TO BE A MUNICIPAL SOURCE ON A SEPARATE WATER METER. CONTRACTOR TO VERIFY THAT THE POC SHALL BE CAPABLE OF SUPPLYING A MINIMUM OF 60 GPM AT 45 PSI. CONTRACTOR SHALL VERIFY THESE MINIMUM CONDITIONS CAN BE MET PRIOR TO BEGINNING IRRIGATION
- 7.2. IF THE CONDITIONS CAN NOT BE MET, THE CONTRACTOR MUST NOTIFY THE DESIGNER PRIOR TO PROCEEDING WITH THE WORK. IF THE CONTRACTOR DOES NOT DO SO, THE CONTRACTOR PROCEEDS AT THEIR OWN RISK AND BECOMES RESPONSIBLE FOR ANY FUTURE WORK REQUIRED TO MAKE THE SYSTEM

- 8.1. MAINLINE PIPE: PVC SCHEDULE 40, NON-GASKETED, SOLVENT WELD, WITH PVC SCHEDULE 40 FITTINGS.
- 8.2. LATERAL PIPE: PVC SCHEDULE 40, NON-GASKETED, SOLVENT WELD, WITH PVC SCHEDULE 40 FITTINGS.
- 8.3. THREADED PIPE: PVC SCHEDULE 80.
- 8.4. PIPE LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD. WHEN LAYING OUT MAINLINES PLACE A MAXIMUM OF 12" AWAY FROM EITHER THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR OTHER HARDSCAPE TO ALLOW FOR EASE IN LOCATING AND PROTECTION FROM PHYSICAL DAMAGE. INSTALL ALL LATERAL PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHENEVER POSSIBLE TO ALLOW SPACE FOR PLANT ROOT BALLS. ALWAYS INSTALL PIPING INSIDE PROJECT PROPERTY BOUNDARY.
- 8.5. PIPES SHALL ALWAYS BE PLACED IN PLANTING BEDS. IF IT IS NECESSARY TO HAVE PIPING UNDER HARDSCAPES, SUCH AS ROADS, WALKS, AND PATIOS, THE PIPES MUST BE SLEEVED USING SCH 40 PVC WITH THE SLEEVE DIAMETER BEING TWICE THE SIZE OF THE PIPE IT IS CARRYING WITH A MINIMUM SLEEVE SIZE OF 2".
- 8.6. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF SAID REJECTION.

8.7. CONTRACTOR TO ENSURE ALL MAINLINE PIPING IS PROPERLY RESTRAINED USING MECHANICAL JOINT FITTINGS, RESTRAINING COLLARS, THREADED RODS,

- THRUST BLOCKS, ETC., AS AND WHERE REQUIRED. CONTRACTOR SHALL REFER TO PIPE MANUFACTURER'S RECOMMENDED INSTALLATION PRACTICES FOR 8.8. PVC PIPE JOINT COMPOUND AND PRIMER: SLOW-DRYING, HEAVY DUTY CEMENT AND TINTED (PURPLE) PRIMER THAT IS COMPATIBLE WITH THE CEMENT.
- THE PVC CEMENT SHALL BE WELD-ON 2711 GREY AND THE PRIMER SHALL BE WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUALS.
- 8.9. MAIN LINE PIPE DEPTH MEASURED TO THE TOP OF PIPE SHALL BE 18" MINIMUM, 36" MINIMUM AT VEHICULAR CROSSINGS.
- 8.10. LATERAL LINE DEPTHS MEASURED TO TOP OF PIPE SHALL BE 12" MINIMUM, 30" MINIMUM AT VEHICULAR CROSSINGS.
- 9.1. LAY OUT IRRIGATION SYSTEM MAINLINES AND LATERAL LINES. MAKE THE NECESSARY ADJUSTMENTS AS REQUIRED TO TAKE INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMITATIONS PRIOR TO EXCAVATING TRENCHES.
- 9.2. STAKE ALL SPRINKLER HEAD LOCATIONS. ADJUST LOCATION AND MAKE THE NECESSARY MODIFICATIONS TO NOZZLE TYPES, ETC. REQUIRED TO INSURE

- 100% HEAD TO HEAD COVERAGE. REFER TO THE EDGE OF PAVEMENT DETAIL ON THE IRRIGATION DETAIL SHEET.
- 9.3. SPRAY HEADS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS AND 12" FROM UNCURBED ROADWAYS AND BUILDING FOUNDATIONS. ROTORS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS, 12" FROM BUILDING FOUNDATIONS, AND 36" FROM UNCURBED ROADWAYS. SHRUB HEADS SHALL BE INSTALLED ON 3/4" SCH 40 PVC RISERS. THE RISERS SHALL BE SET AT A MINIMUM OF 18" OFF SIDEWALKS, ROADWAY CURBING,
- BUILDING FOUNDATIONS, AND/OR ANY OTHER HARDSCAPED AREAS. SHRUB HEADS SHALL BE INSTALLED TO A STANDARD HEIGHT OF 4" BELOW MAINTAINED HEIGHT OF PLANTS AND SHALL BE INSTALLED WITHIN PLANTED MASSES TO BE LESS VISIBLE AND OFFER PROTECTION. PAINT ALL SHRUB RISERS WITH FLAT BLACK OR FOREST GREEN PAINT, UNLESS IRRIGATION SYSTEM WILL BE INSTALLED FROM A REUSE WATER SYSTEM WITH PURPLE PVC
- 9.5. LOCATE VALVES PRIOR TO EXCAVATION. INSURE THAT THEIR LOCATION PROVIDES FOR EASY ACCESS AND THAT THERE IS NO INTERFERENCE WITH PHYSICAL STRUCTURES, PLANTS, TREES, POLES, ETC. VALVE BOXES MUST BE PLACED A MINIMUM OF 12" AND A MAXIMUM OF 15" FROM THE EDGE OF PAVEMENT, CURBS, ETC., AND THE TOP OF THE BOX MUST BE 2" ABOVE FINISH GRADE. NO VALVE BOXES SHALL BE INSTALLED IN TURF AREAS WITHOUT APPROVAL BY THE IRRIGATION DESIGNER; ONLY IN SHRUB BEDS. NEVER INSTALL VALVE BOXES WITHIN A SPORTS FIELD OR DESIGNATED PLAY AREA.
- 8.1. ELECTRICAL SUPPLY FOR PUMP AND CONTROLLER SHALL TO BE PROVIDED BY THE IRRIGATION CONTRACTOR. CONTRACTOR TO COORDINATE WITH LOCAL UTILITIES FOR THE INSTALLATION OF AND CONNECTION TO AVAILABLE SITE POWER SUPPLY FOR REQUIRED ELECTRICAL COMPONENTS AS SET FORTH IN
- 8.2. ALL ELECTRICAL INSTALLATION TO COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ANY AND ALL OTHER APPLICABLE ELECTRICAL CODES, LAWS AND REGULATIONS. A LICENSED ELECTRICIAN SHALL PERFORM ALL ELECTRICAL HOOK-UPS.
- PUBLIC, EXCAVATION, ASSEMBLY, INSTALLATION, BACK FILLING, COMPACTING, REPAIR OF ROAD SURFACES, CONTROLLER AND LOW VOLTAGE FEEDS TO 9.1. IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE IRRIGATION CONTROLLER WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES.
 - ALL CONTROL WIRING SHALL BE PLACED IN PVC SCHEDULE 40 GRAY ELECTRICAL CONDUIT. AT TURNS IN DIRECTION UTILIZE JUNCTION BOXES. 9.3. TAPE AND BUNDLE CONTROL WIRES EVERY 10' AND RUN ADJACENT TO THE MAINLINE. AT ALL TURNS IN DIRECTION MAKE A 2' COIL OF WIRE. AT ALL 3M-DBY, DBR CONNECTORS
- TO SATISFY/EXCEED THE FLORIDA BUILDING CODE (FBC) APPENDIX F AND THE FLORIDA IRRIGATION SOCIETY STANDARDS AND SPECIFICATIONS FOR 9.4. NUMBER ALL WIRES USING AN ELECTRICAL BOOK OF NUMBERS ACCORDING TO THE PLANS. NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER.
 - 9.5. WIRE SIZED, NUMBERED AND COLORED AS FOLLOWS:
 - #14 WHITE FOR COMMON #14 SPARE BLACK COMMON
 - #14 RED FOR HOT WIRES

#14 SPARE YELLOW HOT WIRE

- 10.1. CONTRACTOR TO UTILIZE 4"X8'X5/8" COPPER GROUNDING PLATES, 5/8"X10' COPPER CLAD GROUNDING RODS, 'ONE STRIKE' CAD WELLS AT ALL CONNECTION POINTS, #6 BARE COPPER WIRE, AND EARTH CONTACT MATERIAL. INSTALL THESE AND OTHER REQUIRED COMPONENTS AS OUTLINED IN THE DETAIL. CONTRACTOR TO VERIFY THAT THE EARTH TO GROUND RESISTANCE DOES NOT EXCEED 10 OHMS. CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION ON A LICENSED ELECTRICAL CONTRACTORS LETTER HEAD SHOWING THE DATE OF THE TEST, CONTROLLER LOCATION, AND TEST RESULTS. EACH CONTROLLER SHALL BE SO GROUNDED AND TESTED.
- 11.1. SEQUENCE ALL VALVES SO THAT THE FARTHEST VALVE FROM THE P.O.C. OPERATES FIRST AND THE CLOSEST TO THE P.O.C. OPERATES LAST. THE
- CLOSEST VALVE TO THE P.O.C. SHOULD BE THE LAST VALVE IN THE PROGRAMMED SEQUENCE.
- 11.3. USING 3" HIGH NUMBER STENCILS, PAINT THE VALVE NUMBER IN WHITE ON THE LID OF EACH VALVE BOX.
- 12.1. BUBBLERS SHALL BE INSTALLED USING SCH 80 NIPPLES AND SHALL BE PLACED AT THE BASE OF TREES FOR LOW LEVEL WATERING.
- 12.3. ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS, AND IN ACCORDANCE WITH LOCAL AND STATE LAWS.

- 13.1. EXCAVATE STRAIGHT AND VERTICAL TRENCHES WITH SMOOTH, FLAT OR SLOPING BOTTOMS. TRENCH WIDTH AND DEPTH SHOULD BE SUFFICIENT TO ALLOW FOR THE PROPER VERTICAL AND HORIZONTAL SEPARATION BETWEEN PIPING AS SHOWN IN THE PIPE INSTALLATION DETAIL ON THE DETAIL
- 13.2. PROTECT EXISTING LANDSCAPED AREAS. REMOVE AND REPLANT ANY DAMAGED PLANT MATERIAL UPON JOB COMPLETION. THE REPLACEMENT MATERIAL SHALL BE THE SAME GENUS, SPECIES, AND SIZE OF THE MATERIAL IT IS REPLACING. THE FINAL DETERMINATION AS TO WHAT NEEDS TO BE REPLACED AND THE ACCEPTABILITY OF THE REPLACEMENT MATERIAL SHALL BE SOLELY DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 14.1. CUT ALL PIPE SQUARE AND DEBURR. CLEAN PIPE AND FITTINGS OF FOREIGN MATERIAL, THEN APPLY A SMALL AMOUNT OF PRIMER WHILE ENSURING THAT ANY EXCESS IS WIPED OFF IMMEDIATELY. PRIMER SHOULD NOT PUDDLE OR DRIP FROM PIPE OR FITTINGS. NEXT APPLY A THIN COAT OF PVC CEMENT. FIRST APPLY A THIN LAYER TO THE PIPE. THEN A THIN LAYER INSIDE THE FITTING, AND FINALLY ANOTHER VERY THIN LAYER ON THE PIPE. INSERT THE PIPE INTO THE FITTING. INSURE THAT THE PIPE IS INSERTED TO THE BOTTOM OF THE FITTING, THEN TURN THE PIPE A 1/4 TURN AND HOLD FOR 10 SECONDS. MAKE SURE THAT THE PIPE DOESN'T RECEDE FROM THE FITTING. IF THE PIPE ISN'T AT THE BOTTOM OF THE FITTING UPON COMPLETION, THE GLUE JOINT IS UNACCEPTABLE AND MUST BE DISCARDED.
- 14.2. PIPES MUST CURE A MINIMUM OF 30 MINUTES PRIOR TO HANDLING AND PLACING INTO TRENCHES. A LONGER CURING TIME MAY BE REQUIRED; REFER TO

THE MANUFACTURER'S SPECIFICATIONS. THE PIPE MUST CURE A MINIMUM OF 24 HOURS PRIOR TO FILLING WITH WATER.

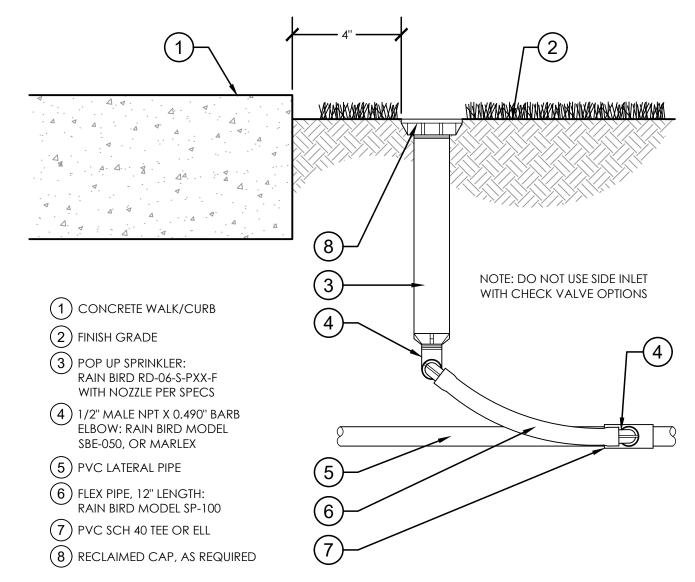
- 15.1. THE BACKFILL 6" BELOW AND 6" ABOVE ALL PIPING SHALL BE CLEAN SAND. ALL OTHER TRCNCH BACKFILL CAN BE NATIVE MATERIAL BUT SHALL NOT CONTAIN ANYTHING LARGER THAN 2" IN DIAMETER.
- 15.2. CONTRACTOR SHALL BACKFILL ALL PIPING, BOTH MAINLINE AND LATERALS, PRIOR TO PERFORMING ANY PRESSURE TESTS. THE PIPE SHALL BE BACKFILLED WITH THE EXCEPTION OF 2' ON EACH SIDE OF EVERY JOINT (BELL FITTINGS, 90'S, TEES, 45'S, ETC.). THESE JOINTS SHALL NOT BE BACKFILLED UNTIL ALL PIPING HAS SATISFACTORILY PASSED ITS APPROPRIATE PRESSURE TEST AS OUTLINED BELOW.

16.1. LEAKAGE TESTING

- 16.1.1. REMOVE ALL REMOTE CONTROL VALVES AND CAP USING A THREADED CAP. FILL MAINLINE WITH WATER AND PRESSURIZE THE SYSTEM TO 125 PSI. MONITOR THE SYSTEM PRESSURE AT TWO GAUGE LOCATIONS; THE GAUGE LOCATIONS MUST BE AT OPPOSITE ENDS OF THE MAINLINE. WITH THE SAME RESPECTIVE PRESSURES MONITOR THE GAUGES FOR TWO HOURS
- 16.1.2. PVC SOLVENT-WELD PIPE CONNECTIONS SHALL HAVE NO LEAKAGE. GASKETED PIPING SHALL LOSE NO MORE WATER THAN ALLOWED PER THE FLORIDA STATE BUILDING CODE, VOLUME II PLUMBING, PART VI, APPENDIX 'F'. REFER TO THIS SECTION FOR THE FORMULA TO BE USED TO CALCULATE THE MAXIMUM ALLOWABLE WATER LOSS DURING THE TESTING TIME.
- 16.1.3. REPAIR ALL LEAKS AND RETEST MAINLINE PIPING UNTIL THE TEST IS SUCCESSFUL. 16.1.4. LATERAL PIPE MUST BE FILLED AND VISUALLY CHECKED FOR LEAKS. ANY LEAKS DETECTED MUST BE REPAIRED. NO PRESSURE TEST OF THE LATERAL LINES IS REQUIRED.
- 16.2.1. PRIOR TO THE PLACEMENT OF HEADS, FLUSH ALL LINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS,
- WHICHEVER IS LONGER. 16.2.2. USE SCREENS IN HEADS AND ADJUST HEADS FOR PROPER COVERAGE AVOIDING EXCESS WATER ON WALLS, WALKS AND PAVING.
- 16.3. OPERATIONAL TESTING: 16.3.1. UPON COMPLETION OF BACKFILLING, FINISH GRADING AND CONTOURING, TEST THE ENTIRE SYSTEM FOR PROPER OPERATION, INCLUDING ELECTRICALLY ACTUATING THE REMOTE CONTROL VALVES. RUN EACH ZONE UNTIL WATER BEGINS TO PUDDLE OR RUN OFF. THIS WILL ALLOW DETERMINATION OF THE NUMBER OF IRRIGATION START TIMES NECESSARY TO MEET THE WEEKLY EVAPOTRANSPIRATION REQUIREMENTS OF THE PLANTING MATERIAL IN EACH
- ZONE. IN SANDY SOILS NO PUDDLING WILL OCCUR. IN THESE CASES, CALCULATE THE REQUIRED RUN TIMES. 16.3.2. ONCE THE MAINLINE AND LATERAL LINES HAVE PASSED THEIR RESPECTIVE TESTS AND THE SYSTEM IS COMPLETELY OPERATIONAL, A COVERAGE TEST AND DEMONSTRATION OF THE SYSTEM IS REQUIRED. THE IRRIGATION CONTRACTOR MUST DEMONSTRATE TO THE OWNER OR HIS/HER REPRESENTATIVE THAT PROPER COVERAGE IS OBTAINED AND THAT THE SYSTEM WORKS AUTOMATICALLY FROM THE CONTROLLER. THIS DEMONSTRATION REQUIRES THAT EACH ZONE BE TURNED ON IN THE PROPER SEQUENCE AS SHOWN ON THE PLANS FROM THE CONTROLLER. EACH ZONE WILL BE INSPECTED FOR PROPER COVERAGE AND FUNCTION. THE DETERMINATION OF PROPER COVERAGE AND FUNCTION WILL BE SOLELY DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.

IRRIGATION DETAILS

6" POP-UP SPRAY



(1) TREE OR PALM

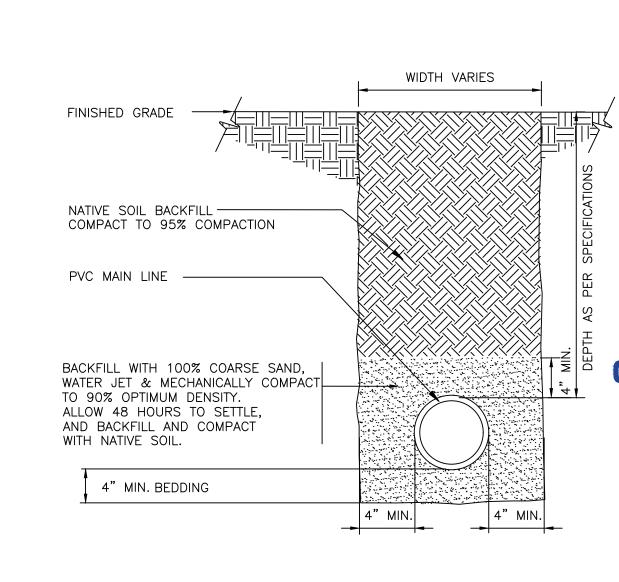
(3) BUBBLER AS SPECIFIED

PER PLANTING DETAILS

(2) ROOT BALL

(4) MULCH

(5) WATER WELL



328409.76-20

DRC SUBMITTAL 08-28-1

&ASSOCIATE:

(8) PVC LATERAL PIPE (LENGTH AS REQUIRED) (9) PLANTING SOIL (10) native soil

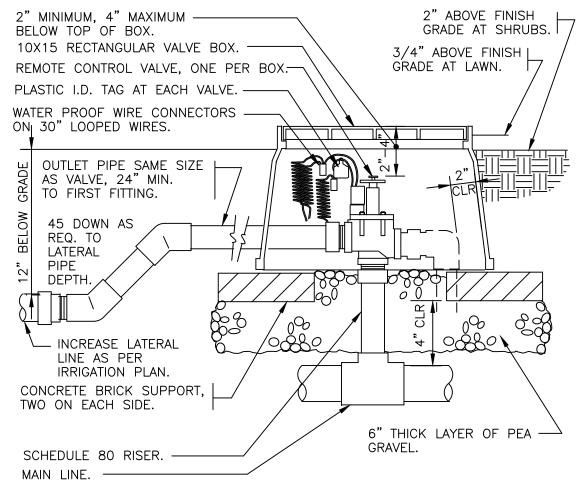
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(6) FLEX PIPE

(7) PVC TEE OR ELL WITH

MARLEX FITTING

TREE BUBBLER 328403.53-06

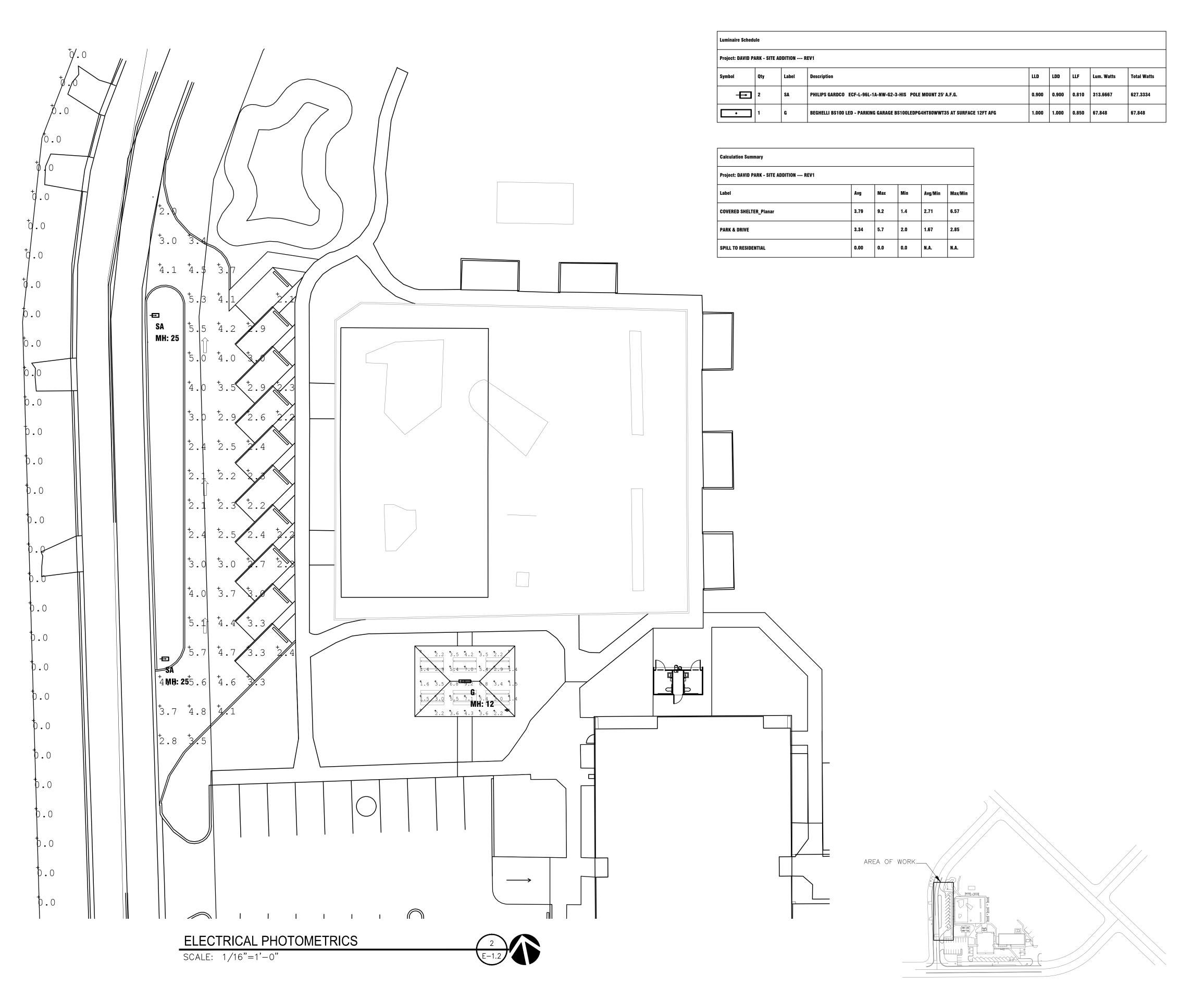


LICENSE NO. 6667129 STATE OF FLORIDA

ERIC HARRISON, RLA

IRRIGATION DRAWN CHECKED DATE 06.23.17 SCALE AS NOTED PROJECT NO. 1559A

DRAWING TITLE:



NO. REVISION DATE DRC SUBMITTAL 08.28.17

CONSULTANT:

OSBORN
ENGINEERING
1948 E. SUNRISE BLVD. SUIT 1 FORT LAUDERDALE, FL 33304
(954) 767-8886 www.osbom-eng.com

Project CAINE

a division of Osbom Engineering



ELECTRICAL PHOTOMETRICS

CHECKED DATE 08.28.17
SCALE AS NOTED
PROJECT NO. 1559A
SHEET:

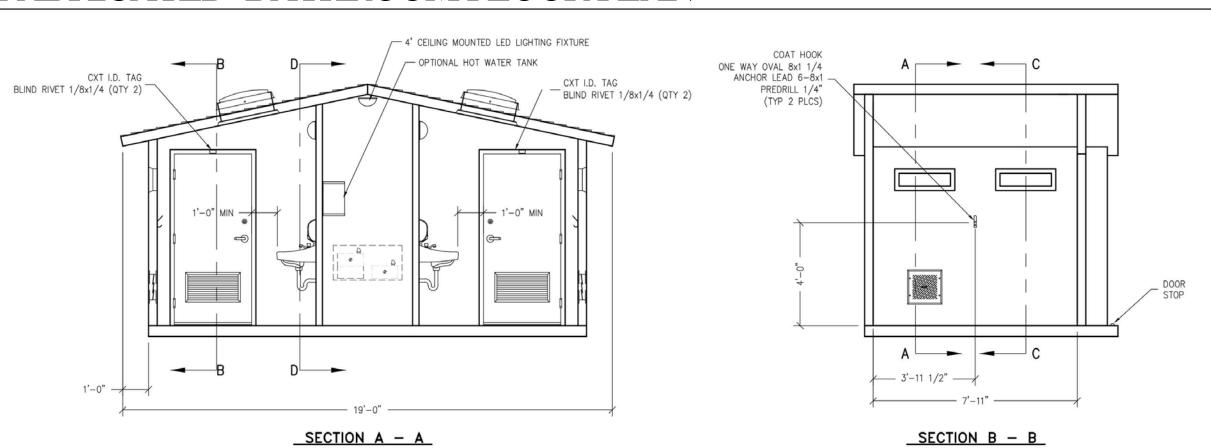
E-1.2

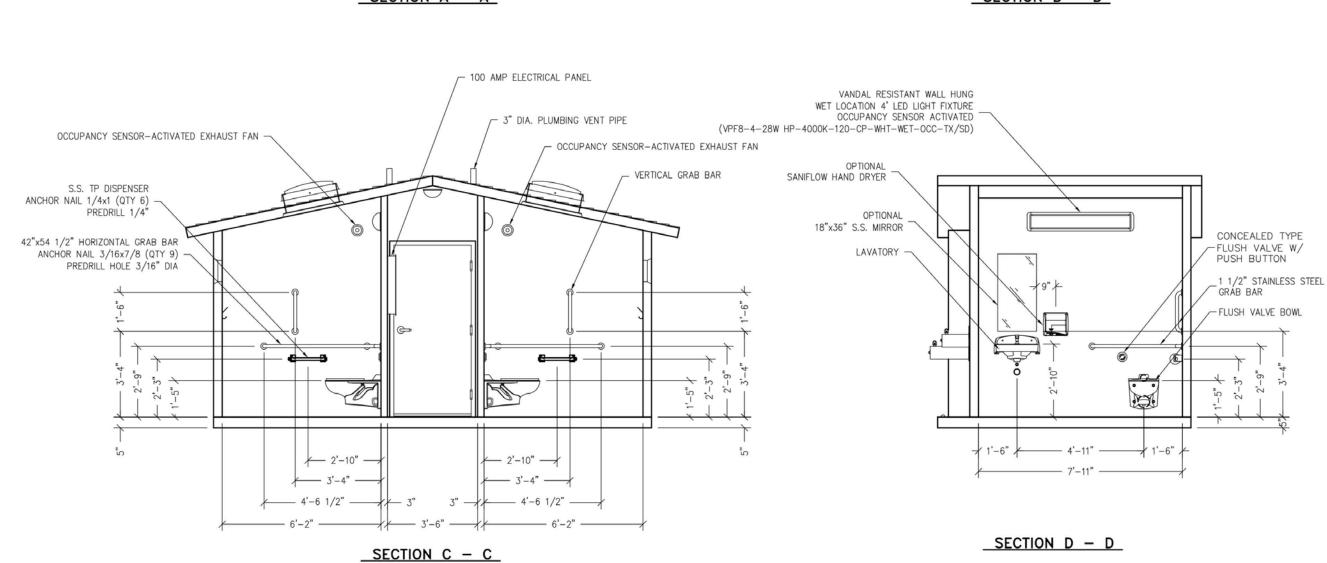
KEY PLAN

SCALE: N.T.S.





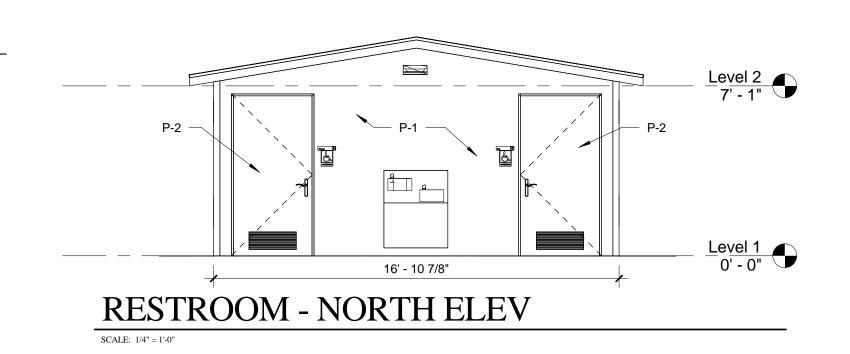


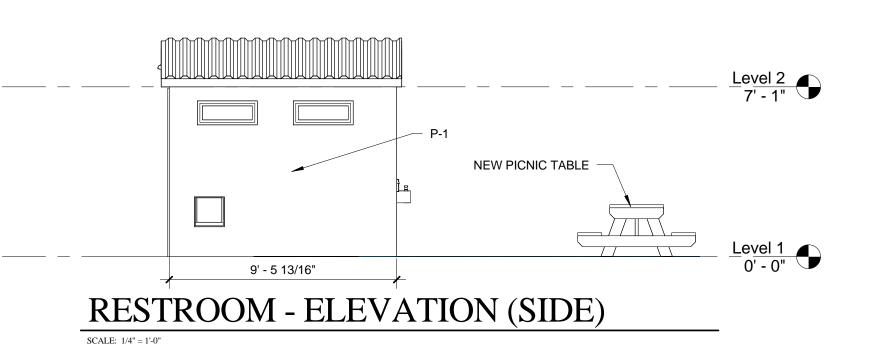


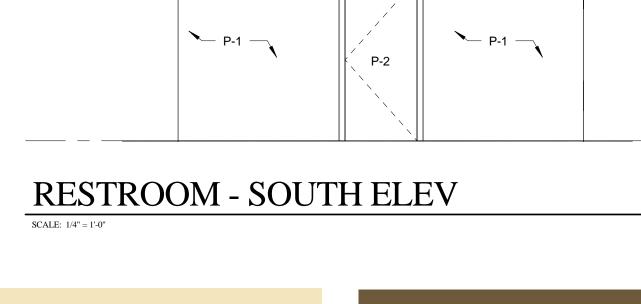


N.T.S

N.T.S









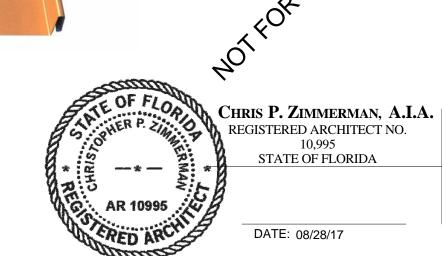




P-2 (DOORS): SHERWIN WILLIAMS SW6111 COCONUT HUSK



ENGLERT METAL ROOF. S1300 SERIES ROOF PANEL. COLOR: METALLIC COPPER MC-20

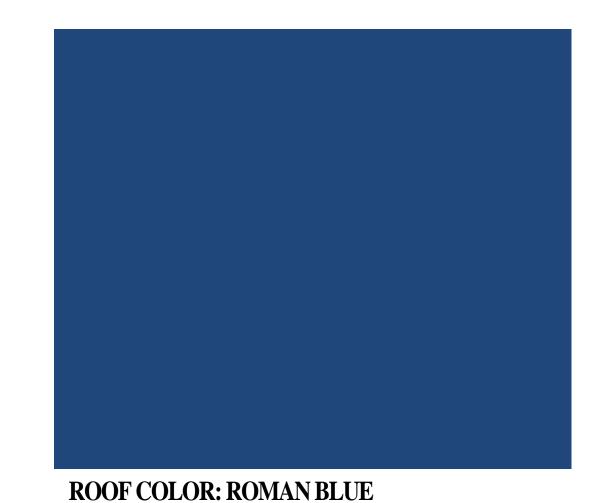


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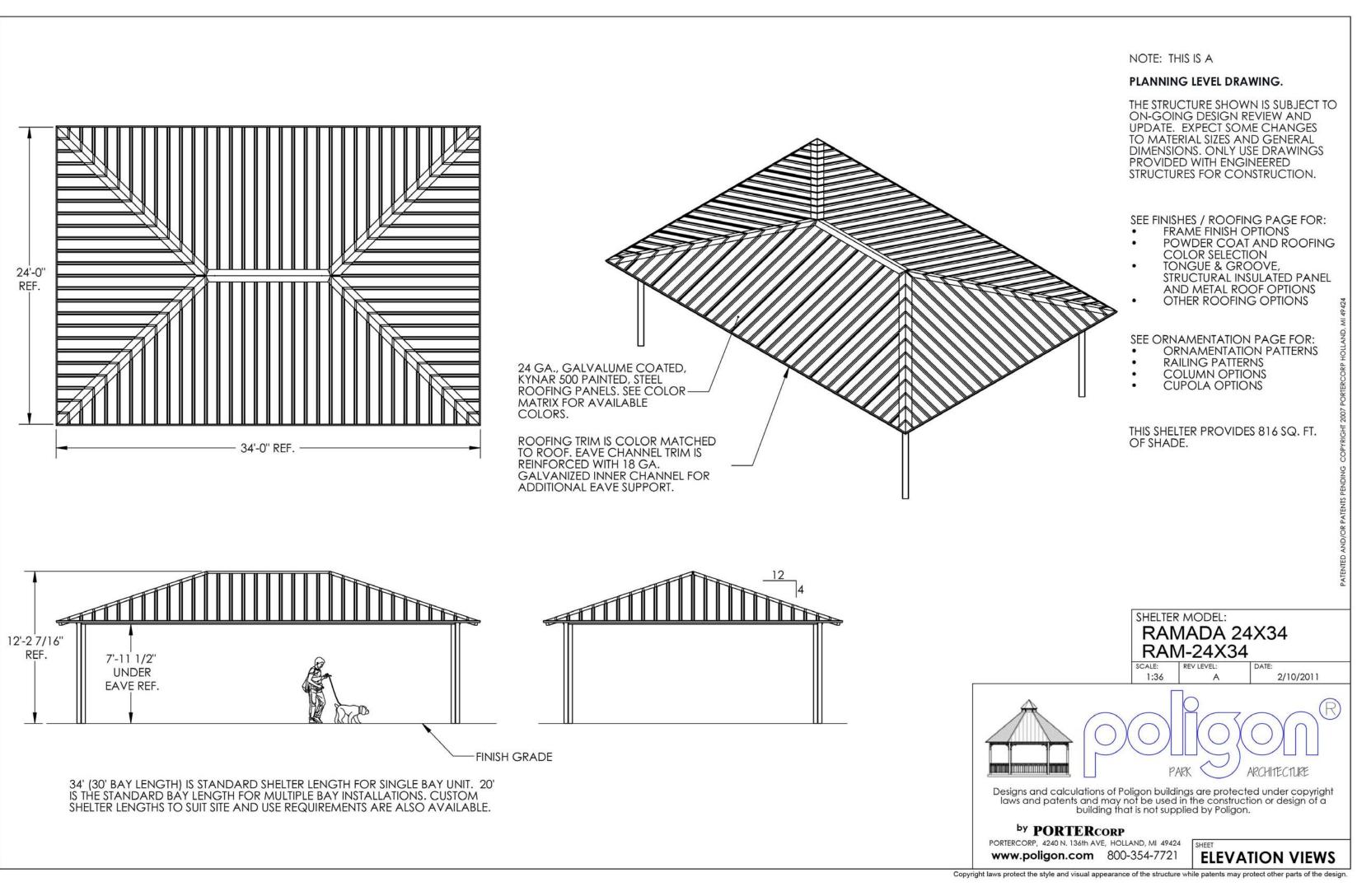
PRE-FABRICATED RESTROOM

DRAWN: Author CHECKED: Checker DATE: 08/28/17 SCALE: 1/4" = 1'-0" PROJECT NO. 1559A SHEET:

A-I



² PAVILION - ELEVATION A-2 SCALE: 1/4" = 1'-0"



TOP OF COLUMN
SEE SPECIFICATION
ON THIS SHEET TYP.

FINISH FLOOR 0' - 0"

DRAWING TITLE: **PAVILLION** STRUCTURE DRAWN: Author CHECKED: Checker DATE: 08/28/17 SCALE: As indicated PROJECT NO. 1559A CHRIS P. ZIMMERMAN, A.I.A. SHEET: REGISTERED ARCHITECT NO.

DATE: 08/28/17

ARCHITECTS,

DRC SUBMITTAL 08/28/17

CONSULTANT:

STATE OF FLORIDA