

FILE: R:\Projects\1942 Higgins Boca West\CCAD\Plans\1942-C9-1-GENERAL NOTES.dwg, Wednesday, February 12, 2020 5:15:48 PM  
THIS LINE SHOULD MEASURE ONE HALF INCH ON A HALF SCALE PRINT.  
PLOTTED DATE: 1/15/2021 6:44:44 PM

GENERAL NOTES:

- 1) STANDARDS - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (STANDARD SPECIFICATIONS) AND FDOT "DESIGN STANDARD INDEX," (DESIGN STANDARDS), LATEST EDITIONS.
- 2) WORKMANSHIP - ALL WORK SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY, STATE AND/OR FEDERAL REGULATIONS AND CODES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES REQUIRED PRIOR TO INITIATING WORK.
- 3) PERMITS - CONTRACTOR SHALL ADHERE TO THE TERMS AND CONDITIONS FOR PALM BEACH COUNTY, LAKE WORTH DRAINAGE DISTRICT, SOUTH FLORIDA WATER MANAGEMENT DISTRICT BOCA RATON UTILITY SERVICES AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SITE ENGINEERING AND DRIVEWAY PERMIT FOR THIS PROJECT.
- 4) THE INFORMATION SHOWN ON THESE PLANS AND SPECIFICATION ARE PART OF THE STANDARD CONSTRUCTION DOCUMENTS . ALL INFORMATION BETWEEN THESE ENGINEERING PLANS, THE ARCHITECTURAL PLANS ARE COMPLIMENTARY. ANY CONFLICTS BETWEEN ANY OF THE STANDARD CONSTRUCTION DOCUMENTS AND THE ENGINEERING PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER..
- 5) SURVEY - EXISTING INFORMATION HAS BEEN TAKEN FROM TOPOGRAPHIC SURVEY BY DAVID & GERCHAR SURVEYORS AND MAPPERS, DATED OCTOBER 25, 2018. ELEVATIONS SHOWN ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD 88). THE LOCATION AND SIZE OF ALL EXISTING UTILITIES AND TOPOGRAPHY HAVE BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT GUARANTEED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, ELEVATION, SIZE AND MATERIAL OF ANY EXISTING UTILITIES, FACILITIES AND TOPOGRAPHY PRIOR TO CONSTRUCTION.
- 6) SHOP DRAWINGS - SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISED OR UNACCEPTABLE MATERIAL INSTALLED OR ORDERED WITHOUT AN APPROVED SHOP DRAWING. CONTRACTOR SHALL ALLOW 30 DAYS FOR THE APPROVAL FOR SHOP DRAWINGS BY THE ENGINEER AND THE APPROPRIATE AGENCIES.
- FIELD LOCATIONS - PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE CHAPTERS 556 FOR THE PROTECTION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL (811 OR 1-800-432-4770) FOR FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES 48 HOURS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL VERIFY ALL UTILITIES, BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS, ELEVATIONS, MATERIALS, AND DIMENSIONS AS SHOWN PRIOR TO THE START OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER. REQUESTS FOR ADDITIONAL COSTS DUE TO VARYING CONDITIONS OF EXISTING UTILITIES SHALL NOT BE CONSIDERED WITHOUT THE INFORMATION OF THE CHANGED CONDITIONS BEING PROVIDED TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- 7) OBSERVING THE WORK - THE PROGRESS AND QUALITY OF THE WORK SHALL BE OBSERVED BY THE ENGINEER OR ENGINEER'S APPOINTED EMPLOYEE. NO OBSERVER IS AUTHORIZED TO CHANGE ANY PROVISIONS OF THE SPECIFICATIONS WITHOUT WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD, NOR SHALL NEITHER THE PRESENCE NOR THE ABSENCE OF AN OBSERVER RELIEVE THE CONTRACTOR FROM ANY REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF 24 HOURS NOTICE PRIOR TO REQUIRED INSPECTIONS, AND SHALL SUPPLY ALL EQUIPMENT NECESSARY TO PROPERLY TEST AND INSPECT THE WORK.
- 8) CHANGES - ALL CHANGES SHALL BE APPROVED IN WRITING, PRIOR TO PERFORMING THE WORK, BY THE OWNER, ENGINEER, & RESPECTIVE JURISDICTIONAL AGENCIES.
- 9) EROSION AND SEDIMENT CONTROL - CONTRACTOR SHALL ACKNOWLEDGE COVERAGE UNDER THE NPDES PERMIT AND RECEIPT OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), AND ADHERE TO ALL CONDITIONS AND INSPECTION REQUIREMENTS. EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE PERMITS OBTAINED FOR THIS PROJECT, AT A MINIMUM, PRIOR TO ANY CONSTRUCTION ACTIVITIES OR DE-WATERING OPERATIONS. ADDITIONALLY, CONTRACTOR SHALL UTILIZE ADDITIONAL CONSTRUCTION METHODS AND DEVICES WHERE NECESSARY IN ORDER TO COMPLY WITH STATE AND LOCAL WATER QUALITY AND EROSION CONTROL STANDARDS. COSTS OF PROVIDING AND MAINTAINING SUCH METHODS SHALL BE INCLUDED IN THE BID PRICE.
- 10) CLEARING AND GRUBBING - CLEARING AND GRUBBING SHALL BE PERFORMED WITHIN THE LIMITS OF THE PROJECT WORK IN ACCORDANCE WITH SECTION 110, FDOT STANDARD SPECIFICATIONS. ALL EXISTING UTILITIES AND STRUCTURES ARE TO REMAIN UNLESS NOTED OTHERWISE. TREES NOT IDENTIFIED TO BE REMOVED SHALL BE LEFT STANDING AND PROTECTED, BUT TRIMMED AS NECESSARY TO GIVE A MINIMUM CLEAR HEIGHT SUFFICIENT TO ACCOMPLISH THE PROJECT WORK. IF UNSUITABLE SOILS, SUCH AS MUCK, PEAT, GUMBO OR OTHER PLASTIC CLAYS ARE ENCOUNTERED, THEY SHALL BE REMOVED WITHIN THE PAVEMENT AREAS ONE FOOT BELOW THE SUBGRADE. ALL MATERIALS OF NO SALVAGE VALUE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS, REGULATIONS OR ORDINANCES.
- 11) MEASUREMENT - ALL PIPE LENGTHS SHOWN ON THESE DRAWINGS ARE SCALED DISTANCES. STORM SEWER PIPE LENGTHS ARE BASED ON MEASUREMENT FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. CONTRACTOR SHALL CONFIRM ALL MEASUREMENTS IN THE FIELD AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCY WITH THE DRAWINGS PRIOR TO PERFORMING THE WORK.
- 12) DRAINAGE IMPROVEMENTS - DRAINAGE IMPROVEMENTS SHALL BE CONSTRUCTED AT THE LOCATION, LINES, GRADES, AND ELEVATIONS, FOR THE SIZE AND TYPE DRAINAGE STRUCTURES AND WATER MANAGEMENT FACILITIES AS SHOWN ON THE PLANS AND DETAILS. ADDITIONALLY;
- a) MATERIALS AND CONSTRUCTION METHODS FOR PIPE CULVERTS SHALL BE IN ACCORDANCE WITH SECTION 430, FDOT STANDARD SPECIFICATIONS, FOR THE TYPE OF PIPE SPECIFIED.
- b) WHERE CONNECTIONS TO AN EXISTING DRINAGE SYSTEM ARE PROPOSED, EXISTING DRAINAGE STRUCTURES AND LINES SHALL BE CLEANED OF ALL SILT AND OTHER DEBRIS PRIOR TO CONNECTIONS BEING MADE.
- c) CONFLICTS BETWEEN POTABLE WATER, SANITARY SEWER AND STORM DRAINAGE CONDUITS SHALL BE RESOLVED IN ACCORDANCE WITH THE FDEP STANDARD STATEMENT FOR THE RESOLUTION OF CONFLICTS CONTAINED ON THESE PLANS.
- d) CULVERTS AND STRUCTURES SHALL BE INSTALLED IN A DRY TRENCH UNLESS SPECIFICALLY STATED IN THE PLANS. NO JOINTS SHALL BE COVERED, NOR A STRUCTURE BACKFILLED UNTIL OBSERVED BY THE ENGINEER. DE-WATERING ACTIVITIES SHALL CONTINUE UNTIL BACKFILLING IS COMPLETE. THE ENGINEER MAY APPROVE INSTALLATION UNDER WET CONDITIONS IF CIRCUMSTANCES WARRANT. PIPE SHALL BE FULLY SUPPORTED ALONG ITS ENTIRE LENGTH. SHARP OR ROCKY MATERIAL ENCOUNTERED IN THE BASE SHALL BE REPLACED WITH PROPER BEDDING.
- e) ALL PIPE JOINTS INCLUDING THE FIRST JOINT OF PIPE ENTERING OR LEAVING A MANHOLE OR INLET SHALL BE WRAPPED WITH FILTER FABRIC PER FDOT SPECIFICATIONS.
- f) EXCAVATION, BACKFILL AND COMPACTION OF TRENCHING FOR CULVERT AND/OR WATER CONTROL STRUCTURE INSTALLATION UNDER THIS SECTION SHALL BE IN ACCORDANCE WITH SECTIONS 120 & 125, FDOT STANDARD SPECIFICATIONS. BACKFILL AND COMPACTION SHALL BE CONDUCTED UNDER "DRY" CONDITIONS. THE PIPE SHALL BE LAID IN THE TRENCH ON FIRM, UNYIELDING, AND AS NECESSARY, RE-COMPACTED SOIL. SELECT GRAVEL BEDDING MAY BE REQUIRED IF CONDITIONS WARRANT. DENSITY TESTS SHALL BE REQUIRED DURING BACKFILL OPERATIONS.

- g) DENSITY TESTING - PIPE RUNS LOCATED UNDER VEHICULAR ACCESS AREAS OR STRUCTURES SHALL BE COMPACTED TO A DENSITY OF AT LEAST 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99. PIPE RUNS INSTALLED IN LOCATIONS WHERE NO VEHICULAR TRAFFIC WILL PASS OVER THE PIPE SHALL BE COMPACTED TO A DENSITY APPROXIMATELY EQUAL TO THE SURROUNDING UNDISTURBED SOILS. QUESTIONS REGARDING THE COMPACTION REQUIREMENTS AT A SPECIFIC LOCATION SHALL BE DIRECTED TO THE ENGINEER FOR WRITTEN CLARIFICATION. ACCEPTANCE OF THE DENSITY TESTING FOR BACKFILL OPERATIONS SHALL BE BASED ON SECTIONS 125-9 & 125-10, FDOT STANDARD SPECIFICATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH AN INDEPENDENT TESTING LABORATORY APPROVED BY THE ENGINEER, THE TESTING AND RE-TESTING NECESSARY TO ASSURE THAT THE WORK HAS BEEN PERFORMED IN STRICT COMPLIANCE WITH THESE SPECIFICATIONS.
- h) DRAINAGE LAMPING - ALL DRAINAGE SYSTEMS SHALL BE PUMPED DOWN BELOW ONE-THIRD OF THE DIAMETER OF THE PIPE (FROM THE INVERT) AND LAMPED AS OBSERVED BY THE ENGINEER DURING THE FINAL DRAINAGE INSPECTION. FINAL TEST RESULTS SHALL BE SIGNED AND SUBMITTED TO THE ENGINEER.
- 14) SAWCUT - CONTRACTOR TO PROVIDE A STRAIGHT SAWCUT EDGE ON ALL EXISTING PAVEMENT AREAS THAT ARE ADJACENT TO PROPOSED OR REPLACEMENT PAVING.
- 15) SUBGRADE - SUBGRADE SHALL BE STABILIZED AND TESTED IN ACCORDANCE WITH SECTION 160, FDOT STANDARD SPECIFICATIONS FOR A LOAD BEARING RATION (LBR) OF 40.
- 16) BASE COURSE - CONSTRUCTION OPTIONAL BASE COURSE IN ACCORDANCE WITH SECTION 285, FDOT STANDARD SPECIFICATIONS AND APPLICABLE SECTIONS COVERING THE PARTICULAR BASE TO BE CONSTRUCTED.
- 17) SURFACE COURSE - SURFACE COURSE SHALL INCLUDE A TYPE SP-12.5 CLASS C SUPERPAVE MIX IN ACCORDANCE WITH SECTION 334, FDOT STANDARD SPECIFICATIONS; A FC-12.5 FRICTION COURSE IN ACCORDANCE WITH SECTION 337, FDOT STANDARD SPECIFICATIONS WITH AN ASPHALT BINDER MEETING THE REQUIREMENTS OF SECTION 338, FDOT STANDARD SPECIFICATIONS.
- 18) GRADES - GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED. CONTRACTOR TO LOWER THE GROUND BELOW THE FINISHED GRADE PRIOR TO THE PLACEMENT OF SOD TO ALLOW FOR THE THICKNESS OF SOD AND TO PROVIDE FOR POSITIVE DRAINAGE.
- 19) FINAL GRADING - THE CONTRACTOR SHALL FINISH GRADE ALL AREAS DISTURBED DURING THE EXECUTION OF THE PROJECT WORK TO OBTAIN THE LINES AND GRADES SHOWN ON THE PLANS AND TO PREPARE THOSE AREAS TO RECEIVE GRASSING WITHOUT ADDITIONAL WORK. UNLESS OTHERWISE SHOWN ON THE PLANS, SLOPES IN ALL AREAS OF FILL OR EXCAVATION SHALL BE GRADED TO A MAXIMUM SLOPE OF 4:1 (HORIZONTAL TO VERTICAL) TO MEET DESIGN GRADE OR NATURAL GROUND, WHICHEVER IS APPLICABLE. ALL AREAS SHALL BE GRADED TO DRAIN. ALL GRADES SHOWN IN THE LANDSCAPE AREAS AROUND THE BUILDING PERIMETER REFER TO TOP OF SOD.
- 20) SOD - ALL AREAS DISTURBED DURING THE PROSECUTION OF THE PROJECT WORK SHALL BE FINISH GRADED, AND STABILIZED WITHIN TWO (2) WEEKS OF THE COMPLETION OF THE EARTHWORK ACTIVITY. ALL AREAS WITHIN, AND ADJACENT TO THE PUBLIC RIGHT-OF-WAYS WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE SEEDED, FERTILIZED & MULCHED IN ACCORDANCE WITH FDOT SPECIFICATIONS, SECTION 570. ALL AREAS WITHIN THE PROJECT WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE SODDED PER THE APPROVED LANDSCAPE PLANS. EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL GRASSING IS ESTABLISHED AND ACCEPTED. ALL AREAS TO BE GRADED TO PROVIDE FOR POSITIVE DRAINAGE.
- 20) IRRIGATION - CONTRACTOR TO PROTECT AND/OR REPAIR ANY DAMAGES TO THE EXISTING SPRINKLER SYSTEM OR LANDSCAPING IN THE VICINITY OF THE PROJECT.
- 22) TRAFFIC CONTROL - TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE CURRENT EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS (600 SERIES) AND THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 23) CONCRETE - ALL CONCRETE SHALL DEVELOP 3,000 PSI (MINIMUM) 28 DAY COMPRESSIVE STRENGTH OR GREATER WHERE NOTED ON THE PLANS. CLASS I CONCRETE SHALL CONFORM TO FDOT SPECIFICATIONS, LATEST EDITION.
- 24) RECORD DRAWINGS - THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS OF THE COMPLETED WORK IN DUPLICATE. THESE DRAWINGS SHALL BE LEGIBLE AND OF A QUALITY WHICH WILL PERMIT PHOTOGRAPHIC REPRODUCTION. THE DRAWINGS SHALL BE UPDATED CONCURRENTLY WITH THE COMPLETION OF AN ITEM OF WORK OR A SIGNIFICANT PORTION OR PHASE THEREOF. THE DRAWINGS SHALL BE MADE AVAILABLE TO THE ENGINEER FOR HIS REVIEW AND INSPECTION UPON REQUEST. CONTRACTOR SHALL PROVIDE THE ASBUILT GRADES FOR ALL CONSTRUCTION AND SHALL BE COLLECTED BY A FLORIDA LICENSES SURVEYOR AND SAID SURVEYOR SHALL PROVIDE A FINAL PLAN SIGNED AND SEALED.
- a) IN ADDITION TO INFORMATION REGARDING ANY DEVIATION FROM THE APPROVED PLANS, THE DRAWINGS SHALL SHOW, BY REFERENCE TO COMPLETED, VISIBLE IMPROVEMENTS, OR OTHER PERMANENT REFERENCE POINTS, THE LOCATION OF ALL UNDERGROUND OR SUBMERGED PROJECT IMPROVEMENTS, AND ANY ABOVE GROUND IMPROVEMENTS IF THE "AS-BUILT" LOCATIONS VARY FROM THE APPROVED PLANS. THE CONTRACTOR MAY PREPARE THE RECORD DRAWINGS BY RED-LINING OR HIGH-LIGHTING AN APPROVED SET OF PLANS. HOWEVER, INFORMATION PERTAINING TO TOPOGRAPHIC INFORMATION REQUIRED BELOW SHALL BE PREPARED, SIGNED, & SEALED BY A FLORIDA REGISTERED LAND SURVEYOR. AT MINIMUM, COPIES OF THE REDUCED SURVEY FIELD NOTES SHALL BE PROVIDED TO THE ENGINEER ALONG WITH THE RECORD DRAWINGS.
- b) AS APPLICABLE, THE DRAWINGS SHALL INCLUDE, BUT NOT BE LIMITED TO, INFORMATION ON:
- ii) FIELD GRADES: ELEVATIONS OF SITE GRADES INCLUDING PAVING, SIDEWALKS, SWALES, DRIVEWAY, ETC. TO VERIFY THAT MINIMUM AND MAXIMUM SLOPES AND GRADES HAVE BEEN PROVIDED.
- iii) STRUCTURES AND DRAINAGE CONDUITS: ELEVATIONS AND WIDTHS OF PERTINENT POINTS OF STRUCTURES, UPSTREAM AND DOWNSTREAM INVERTS OF ALL STRUCTURES AND CULVERTS, TOPS OF ENDWALLS, AND/OR RISERS, WEIR AND BLEEDER DIMENSIONS AND ELEVATIONS, AND (AS NECESSARY) ALL INFORMATION REQUIRED TO OPERATE THE CONSTRUCTED IMPROVEMENTS.
- iii) BENCHMARK: THE LOCATION, ELEVATION (NGVD), AND DESCRIPTION OF A PERMANENT BENCHMARK CREATED IN THE VICINITY OF THE PROJECT WORK.
- 25) TRAFFIC CONTROL - TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE CURRENT EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS (600 SERIES) AND THE LATEST EDITION OF THE MANUAL ON UNIFORM CONTROL DEVICES (MUTCD).

Always call 811 two full business days before you dig



REV. NO.	DATE	DESCRIPTION

SITE II  
BOCA WEST RECREATIONAL PUD  
FLORIDA  
GENERAL NOTES

LAT 26°22'31.03"N  
LON 80° 9'27.71"W  
BOCA RATON

PROJ. NO.: 1942  
DRAWN BY: RC  
SHEET:

C9.1

3450 Northlake Boulevard - Suite 200  
Palm Beach Gardens, Florida 33403  
Phone: (561) 630-6700  
Toll - Free: (877) 630-6777  
Fax: (561) 625-2770  
FL Certificate of Authorization: 6173  
NC Certificate of Authorization: C-2761

JTR  
Jonathan T. Rickerts, Inc.  
CORPORATE OFFICE • 3450 Northlake Boulevard, Suite 200  
Palm Beach Gardens, FL 33403

SEAL

FL P.E. No. 38789  
JONATHAN T. RICKERTS