SITE / CONSTRUCTION PLAN AND STORMWATER MANAGEMENT PLAN

CONSULTANTS

CIVIL ENGINEER
HUNTER P. BROWN, PE
19409 POWERLINE ROAD
DADE CITY, FL 33523
(352) 585-2950
EMAIL: HP_BROWN@YAHOO.COM

URVEY SERVICES:
DAVRIS, INC.
5830 NEBRASKA AVE.
NEW PORT RICHEY, FL 34652
PHONE: (727) 232-3800
EMAIL: TW@DAVRISINC.COM

UTILITY SUPPLIERS

CITY OF LAKE CITY UTILITIES 692 SW ST. MARGARETS STRE LAKE CITY, FL 32025 (386) 752-2031

"THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE CURRENT VERSION OF THE "MANUAL UNIFORM MINIMUM STANDARDS FOR HIGHWAYS, STATE OF FLORIDA" AND ARE IN COMPLIANCE WITH THE STANDARDS THEREIN EXCEPT AS NOTED ON THE PLANS. ANY DEVIATIONS NOTED ON THE PLANS SUBSTANTIALLY COMPLY WITH THE INTENT OF THE STANDARDS."

AGENCY APPROVALS

PERMIT TYPE | DATE SUBM. | DATE APP. | PERMIT NO. | EXP. DATE

FOR

ROUNTREE - MOORE KIA SERVICE DEPARTMENT ADDITION

COLUMBIA PIN: 36-33-16-02609-000 ADDRESS: 2528 W. US HWY 90 LAKE CITY, FL 32055

DEVELOPER/OWNER:

LAKE CITY K AUTOMOTIVE MGMT LLC

1101 E FLETCHER AVE.

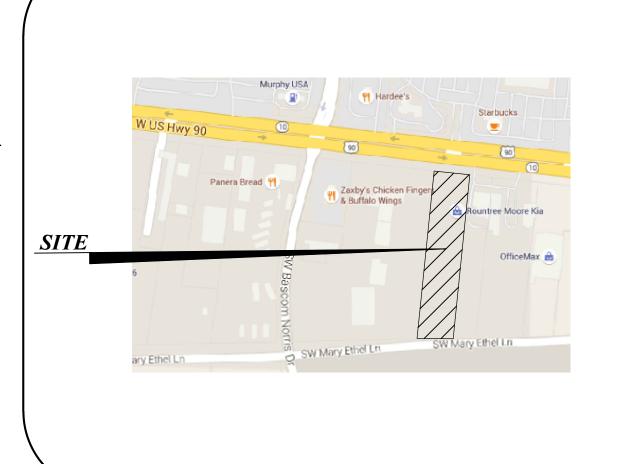
TAMPA, FLORIDA 33612

PREPARED BY: HUNTER P. BROWN, PE

19409 POWERLINE ROAD
DADE CITY, FL 33523
PH: (352) 585-2950
PE NO. 74664
HP_BROWN@YAHOO.COM

PROJECT NUMBER: 22001 DATE: AUGUST 2022

LOCATION MAP



SHEET INDEX

C0.0 COVER SHEET

.0 GENERAL NOTES & DETAILS

22.0 DEMO PLAN 3.0 SITE PLAN

C4.0 GRADING & DRAINAGE PLAN

C5.0 UTILITY PLAN

PROJECT NUMBER: 2

REVISIONS

Designed By: H.P.B. | Drawn By: H.P.B.

DATE | REV. BY | REV. NO. | REVISION

PROFESSIONAL ENGINEER FLORIDA REGISTRATION NO. 74664

ENGINEER: HUNTER P. BROWN, P.E.

- THE FOLLOWING ARE INCORPORATED HEREIN BY REFERENCE:
- 1. CITY OF LAKE CITY, FLORIDA
- 2. FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" 2011
- 3. FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" 2022
- 4. FLORIDA DEPARTMENT OF TRANSPORTATION "ROADWAY AND TRAFFIC DESIGN STANDARDS" 2017-18
- 5. FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)" 2009

GENERAL CONSTRUCTION NOTES

- ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES. STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK, PRIOR TO
- THE CONTRACTOR SHALL CHECK THE PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.
- THE CONTRACTOR IS CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES, WHETHER OR NOT SHOWN, ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ACTUAL FIELD LOCATIONS FROM THE RESPECTIVE UTILITY COMPANY 48 HOURS BEFORE BEGINNING WORK. SUNSHINE STATE ONE CALL ----- 1-800-432-4770
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.
- 6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY
- 7. EARTHWORK CONSTRUCTION:

INSTRUCTION.

- A. ALL EARTHWORK CONSTRUCTION SHALL BE PAID FOR BY LUMP SUM.
- ALL FILL SUITABLE FOR CONSTRUCTION EITHER REQUIRED OR IN EXCESS TO THE PROJECT SHALL BE REMOVED BY THE CONTRACTOR.
- 8. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE OWNER'S ENGINEER, SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS WHICH ARE FOR THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSI ALL SHOP DRAWINGS ARE TO BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL
- 9. AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATE AGENCIES AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS, THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE AND OTHER INFORMATION AS REQUIRED ANY WORK PERFORMED PRIOR TO NOTIFYING THE ENGINEER, OR WITHOUT AGENCY INSPECTOR PRESENT MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE
- 10. BACKFILL MATERIAL SHALL BE SOLIDLY TAMPED AROUND PIPES IN 6" LAYERS UP TO A LEVEL OF AT EAST ONE FOOT ABOVE THE TOP OF THE PIPE. IN AREAS TO BE PAVED, BACKFILL SHALL BE COMPACTED TO 100% MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.T.O. T-99.
- 11. SITE WORK CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF AT LEAST 3,000 P.S.I. IN 28 DAYS, UNLESS OTHERWISE NOTED.
- 12. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS UNLESS SPECIFICALLY EXEMPTED BY THE PLANS ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION IS TO BE
- 13. ALL DISTURBED AREAS ARE TO BE SODDED TO FDOT STANDARDS UNLESS OTHERWISE NOTED. ALL SODDED AREAS SHALL BE MAINTAINED UNTIL A SATISFACTORY STAND OF GRASS, ACCEPTABLE TO THE REGULATORY AGENCY AND ENGINEER OF RECORD. ANY WASHOUTS, REGRADING, RESEEDING AND GRASSING WORK, AND OTHER EROSION WORK REQUIRED, WILL BE PERFORMED BY THE CONTRACTOR, UNTIL THE SYSTEM IS ACCEPTED FOR MAINTENANCE BY THE REGULATORY AGENCY AND ENGINEER OF
- ALL SODDING SHALL INCLUDE WATERING AND FERTILIZATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE AREAS UNTIL THE PROJECT IS COMPLETED AND ACCEPTED BY REGULATORY AGENCIES, THE ENGINEER OF RECORD, AND THE OWNER.
- 15. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLANS AND PERMITS AT THE CONSTRUCTION SITE
- 16. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT ALL TIMES TO CONTROL FUGITIVE DUST FROM THE CONSTRUCTION SITE. THE CONTRACTOR IS ADVISED THAT THE USE OF A WATER TRUCK OR TRAILER MAY BE REQUIRED FOR THE PURPOSE OF KEEPING THE SOIL MOIST TO CONTROL FUGITIVE DUST.
- 17. IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF HISTORIC RESOURCES, INCLUDING BUT NOT LIMITED TO ABORIGINAL OR HISTORIC POTTERY, PREHISTORIC STONE TOOLS, BONE OR SHELL TOOLS, HISTORIC TRASH PITS, OR HISTORIC BUILDING FOUNDATIONS, ARE DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND THE FLORIDA DEPARTMENT OF HISTORICAL RESOURCES (STATE HISTORIC PRESERVATION OFFICER) AND THE LOCAL GOVERNING CITY AND/OR COUNTY DEPARTMENT SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE RESOURCES FOUND ON SITE.
- 18. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED BY THE CONTRACTOR. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY O.S.H.A. IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
- 19. ALL REQUIRED TEST REPORTS SHALL BE SUPPLIED BY CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER OF RECORD. THE TESTING COMPANY SHALL SUPPLY THE ENGINEER WITH A COPY OF ALL COMPACTION TESTS AND ASPHALT TESTING RESULTS. THE TESTING COMPANY SHALL CERTIFY TO THE ENGINEER OF RECORD, IN WRITING THAT ALL TESTING REQUIREMENTS REQUIRED B' THE LOCAL REGULATORY AGENCY AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.), FOR THE IMPROVEMENTS AS REQUIRED BY THE ENGINEERING CONSTRUCTION DRAWINGS, HAVE BEEN
- 20. IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE OR FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES IS DISCOVERED, APPLICABLE AGENCIES SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE. ALL WORK IN THE AFFECTED AREA SHALL COME TO AN IMMEDIATE STOP UNTIL ALL PERTINENT PERMITS HAVE BEEN OBTAINED. AGENCY WRITTEN AUTHORIZATION TO COMMENCE ACTIVITIES HAS BEEN GIVEN, OR UNLESS COMPLIANCE WITH STATE AND FEDERAL GUIDELINES CAN BE DEMONSTRATED.

PAVING, GRADING & DRAINAGE NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPE AND
- THE CONTRACTOR(S) PERFORMING TRENCH EXCAVATION ON THIS CONTRACT, IN EXCESS OF FIVE (5) FEET IN DEPTH, SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S (OSHA) TRENCH EXCAVATION SAFETY STANDARDS, 29 CODE OF FEDERAL REGULATIONS (C.F.R.), SECTION 1926.650, SUBPART P, INCLUDING ALL SUBSEQUENT REVISIONS OR UPDATES TO THESE STANDARDS AS ADOPTED BY THE DEPARTMENT
- IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS OF TREES SHOWN TO BE SAVED. THE CONTRACTOR IS TO COORDINATE WITH OWNER'S ENGINEER PRIOR TO ANY ELEVATION
- THE CONTRACTOR IS TO PROVIDE A 1/2" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER, AT ABUTMENT
- ALL PAVEMENT MARKINGS SHALL BE MADE WITH THERMOPLASTIC, EXCEPT PARKING STALL DELINEATIONS, WHICH MAY BE TRAFFIC RATED PAINT. PARKING STALL DELINEATION SHALL BE 6" MIN. WIDTH.
- ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (A.S.T.M. C-76) UNLESS OTHERWISE P.V.C. STORM PIPE, 12" AND SMALLER SHALL CONFORM TO A.W.W.A. C-900, CLASS 150 STANDARDS UNLESS
- PIPE LENGTHS SHOWN ARE APPROXIMATE AND TO THE CENTER OF DRAINAGE STRUCTURES. PIPE LENGTHS SHOWN, WHERE MITERED END SECTION OF PIPE, SHALL BE INCLUDED IN THE UNIT COST OF THE MITERED END.
- ALL DIMENSIONS SHOWN WHERE CURB IS APPLICABLE ARE TO THE EDGE OF PAVEMENT.
- ALL DRAINAGE STRUCTURE GRATES AND COVERS WITHIN TRAFFIC AREAS SHALL BE TRAFFIC RATED FOR H-20
- WHEN CONSTRUCTION IS COMPLETED, THE RETENTION/DETENTION AREAS WILL BE RESHAPED, CLEANED OF SILT,
- MUD AND DEBRIS AND SODDED AND / OR SEED / MULCH IN ACCORDANCE TO THE PLANS. SOD SHALL BE STAKED AS NECESSARY TO PREVENT DISPLACEMENT.
- THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR. THE RECORD DRAWINGS SHALL SHOW FINAL GRADES, INVERTS AND LOCATIONS OF ALL STORMWATER FACILITIES INCLUDING THE STORMWATER POND, DRAINAGE STRUCTURES, BERMS & SWALES. CONTRACTOR SHALL PROVIDE TEN COPIES OF THE CERTIFIED RECORD DRAWINGS TO THE ENGINEER FOR THE PURPOSE OF CERTIFYING THE STORMWATER MANAGEMENT SYSTEM.
- ALL DRAINAGE PIPE SHALL BE CUT FLUSH WITH THE INTERIOR WALLS OF EACH DRAINAGE STRUCTURE AND GROUTED TO A SMOOTH FINISH.

PAVING, GRADING & DRAINAGE TESTING & INSPECTION REQUIREMENTS

- THE STORM DRAINAGE PIPING AND FILTRATION SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. THE CONTRACTOR IS TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE AN
- THE CONTRACTOR SHALL MAINTAIN THE STORM DRAINAGE SYSTEMS UNTIL FINAL ACCEPTANCE OF THE PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE APPLICABLE TESTING WITH THE TESTING COMPANY. UPON COMPLETION OF THE WORK, THE TESTING COMPANY MUST SUBMIT CERTIFICATIONS TO THE OWNER'S ENGINEER STATING THAT TESTING REQUIREMENTS HAVE

CLEARING AND GRUBBING NOTES

- 1. CLEARING AND GRUBBING FOR PURPOSES OF THE PROJECT DESCRIBED HEREIN SHALL BE IN ACCORDANCE WITH SECTION 110 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." 2022
- 2. ALL VEGETATION, STRUCTURES, MATERIALS DEBRIS AND FILL UNSUITABLE FOR CONSTRUCTION AND OF NO SALVAGE VALUE TO THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE

NO TIME WILL EXISTING BASE MATERIAL BE INCORPORATED WITHIN THE NEW BASE

- 3. EXISTING PAVEMENT SHALL BE REMOVED AND DISPOSED OF BY CONTRACTOR AT THEIR EXPENSE. THE CONTRACTOR MAY (AT HIS OPTION) USE EXISTING LIMEROCK BASE MATERIAL AS A STABILIZING ADDITIVE TO THE SUBBASE. AT
- 4. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN ON THE CONSTRUCTION PLANS SHALL BE PROTECTED IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY'S TREE ORDINANCE AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREES SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER.
- 5. ALL DELETERIOUS SUBSTANCE MATERIAL, (I.E. MUCK, PEAT, BURIED DEBRIS), IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS, OR AS DIRECTED BY THE OWNER'S ENGINEER OR OWNER'S SOIL TESTING COMPANY.
 DELETERIOUS MATERIAL IS TO BE REMOVED FROM THE SITE OR AS OTHERWISE DIRECTED BY THE OWNER. XCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE
- 6. THE CONTRACTOR SHALL CLEAR AND GRUB, ONLY THOSE PORTIONS OF THE SITE, AS NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SODDED FOLLOWING CONSTRUCTION.
- 7. THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A SITE DESIGNATED BY THE OWNER UNLESS OTHERWISE DIRECTED BY THE OWNER.
- 8. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- 9. THE CONTRACTOR IS TO OBTAIN ALL NECESSARY PERMITS FOR REMOVING ANY EXISTING STRUCTURES
- 10. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING A VISUAL INSPECTION OF THE SITE AND WILL BE RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL UNDERGROUND AND ABOVE GROUND STRUCTURES THAT WILL NOT BE INCORPORATED WITH THE NEW FACILITIES. SHOULD ANY DISCREPANCIES EXIST WITH THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING THE OWNER AND REQUESTING A CLARIFICATION OF THE PLANS
- 11. NO ON-SITE BURNING SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE LOCAL FIRE MARSHALL.

EROSION CONTROL NOTES

- 1. DURING CONSTRUCTION, ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
- 2. ALL EROSION AND SILTATION CONTROL METHODS SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
- CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS AND EXISTING WETLANDS. IN ADDITION, THE CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON THE GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.

DEWATERING PLAN / NOTES

THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING GUIDELINES WHEN CONSTRUCTION ACTIVITIES REQUIRE DEWATERING

- 1. DEWATERING ACTIVITIES SHALL BE CONTAINED WITHIN THE PROJECT AREA AND SHALL BE IN CONFORMANCE WITH THE LATEST NPDES CRITERIA..
- 2. THE PROPOSED DRAINAGE RETENTION AREAS CAN BE USED AS TEMPORARY SETTLING AREAS FOR DEWATERING ACTIVITIES. THE PROPOSED DRAINAGE RETENTION AREA(S) SHALL BE CONSTRUCTED TO A SUFFICIENT SIZE AND DEPTH TO RECEIVE WATER FROM DEWATERING ACTIVITIES. IF AT ANY TIME STAGING OF WATER WITHIN THE RETENTION AREA APPROACHES 6-INCHES OF THE PROPOSED POND TOP-OF-BANK,
- DEWATERING ACTIVITIES SHALL STOP UNTIL THE RETENTION VOLUME HAS RECOVERED. 3. SHEET PILE WALLS, SLURRY WALLS, OR OTHER MEANS OF LIMITING THE EXTENT OF THE WATER TABLE DRAWDOWN, BEYOND THE PROJECT AREA, SHALL BE IMPLEMENTED.
- 4. WATER DISCHARGE FROM SETTLING AREAS SHALL BE CLEAN AND FREE OF ANY SILT. SILT BARRIERS (I.E. SILT FENCE, HAY BALES, ROCK BAGS OR ANY COMBINATION NECESSARY TO REMOVE SEDIMENTS PRIOR TO DISCHARGE) SHALL BE INSTALLED AND MAINTAINED UNTIL ALL DEWATERING ACTIVITIES ARE COMPLETE.
- 5. AT NO TIME SHALL DISCHARGE FROM THE DEWATERING ACTIVITIES BE DIRECTED IN A MANNER THAT WOULD IMPACT AN EXISTING WETLAND, LAKE OR RIVER.
- 6. DEWATERING ACTIVITIES SHALL BE LIMITED TO TIME PERIODS THAT CONSTRUCTION ACTIVITIES REQUIRED DEWATERING. ALL IMPLEMENTED DEWATERING INFRASTRUCTURE, EQUIPMENT, ETC. SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.

TRAFFIC CONTROL NOTES:

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SET UP AND MAINTAIN TRAFFIC CONTROL FOR THE DURATION OF THE WORK WITHIN ANY PRIVATE, COUNTY OR STATE RIGHT OF WAY IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX SERIES NO. 600. THE CONTRACTOR'S PROPOSED PLAN FOR IMPLEMENTATION FOR TRAFFIC CONTROL MUST BE APPROVED IN ADVANCE OF CONSTRUCTION BY THE TRAFFIC OPERATIONS MANAGER. THE COST OF THE TRAFFIC CONTROL PLAN SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL ITEMS INCLUDED
- 2. AREAS REQUIRING MAINTENANCE OF TRAFFIC INCLUDE THE FOLLOWING: W. US HWY 90 & SW MARY ETHEL LANE.
- TRAFFIC CONTROL PHASING: A. PLACE ADVANCED WARNING SIGNS PER APPLICABLE FDOT STANDARD PLANS 102-600
- B. LANE CLOSURES SHALL NOT BE PERMITTED DURING THE HOURS OF 6:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM. LANE CLOSURES WITHIN ANY SCHOOL ZONE OR WITHIN 500 FEET OF ANY SCHOOL ZONE SHALL NOT BE PERMITTED FROM ONE (1 HOUR BEFORE TO ONE (1) HOUR AFTER THE STARTING AND ENDING TIMES FOR SCHOOL. ALL LANE CLOSURES SHALL BE PROPERLY SIGNED, CONED, OR BARRICADED IN ACCORDANCE WITH FDOT STANDARDS. VARIABLE MESSAGE SIGNS SHALL BE USED TO ADVISE MOTORISTS OF THE LANE CLOSURES. THE CONTRACTOR SHALL NOTIFY ALL EMERGENCY, LAW ENFORCEMENT, AND RESCUE AGENCIES OPERATING IN THE VICINITY OF THE PROJECT TWENTY-FOUR (24) HOURS IN ADVANCE OF THE PROPOSED LAND CLOSURES OR RESTRICTIONS. THE CONTRACTOR SHALL, AT THE DIRECTION OF T COUNTY'S PROJECT MANAGER, OPEN ANY TEMPORARY LANE CLOSURE CAUSING EXTENDED TRAFFIC CONGESTION, UNTIL TRAFFIC HAS RETURNED TO AN ACCEPTABLE FLOW AS JUDGED BY THE COUNTY'S PROJECT MANAGER.
- C. THE CONTRACTOR SHALL PROVIDE TWO (2) UNIFORMED, OFF-DUTY, LAW ENFORCEMENT OFFICERS FOR TRAFFIC CONTROL: DURING NIGHT OPERATIONS, AND WITHIN 600 FEET OF A SIGNALIZED INTERSECTION AND AS DIRECTED BY THE COUNTY DECLEMENT
- D. GENERAL MAINTENANCE OF TRAFFIC PROVISIONS

 THE CONTRACTOR SHALL EXERCISE CAUTION WHILE RELOCATING EXISTING SIGNS OR INSTALLING NEW SIGNS TO PREVENT UNNECESSARY DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE COUNTY'S PROJECT MANAGER. SIGNS WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE. - THE CONTRACTOR SHALL MAINTAIN AT LEAST TWO (2) LANES OF TRAFFIC THROUGHOUT THE DURATION OF THE PROJECT. - THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND COUNTY, NO ROAD OR STREET INTERSECTING THE PROJECT SHALL BE BLOCKED OR UNDUCK RESTRICTED.

 NO STREET CLOSING SHALL BE MADE WITHOUT THE COUNTY'S WRITTEN APPROVAL. THE CONTRACTOR SHALL NOTIFY THE FIRE DEPARTMENT, POLICE DEPARTMENT, FLORIDA HIGHWAY PATROL, COUNTY TRAFFIC OPERATIONS DIVISION AND COUNTY EMERGENCY MANAGEMENT DIVISION BEFORE AND AFTER THE - TEMPORARY MARKINGS SHALL BE INSTALLED IMMEDIATELY WHEN REQUIRED. STREET OR PORTION THEREOF.

TEMPORARY REFLECTORIZED PAVEMENT MARKERS (RPM) SHALL BE INSTALLED

WITH ALL TEMPORARY LANE LINES.

- MAINTENANCE OF TRAFFIC SHALL INCLUDE ALL TEMPORARY PAVEMENT MARKINGS REQUIRED PRIOR TO INSTALLATION OF PERMANENT PAVEMENT MARKINGS.

GENERAL UTILITY NOTES

- 1. NO CONNECTION TO THE EXISTING UTILITY LINES SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE LOCAL GOVERNING UTILITY
- 2. ALL AREAS DISTURBED BY THIS CONSTRUCTION SHALL BE SODDED WITH BAHIA AND / OR MATCH EXISTING GRASS TYPE. ALL UTILITY LINES SHALL HAVE AN "EARLY WARNING" PROTECTION TAPE INSTALLED CONTINUOUSLY ALONG THE PIPE ALIGNMENT IN THE CASE OF GRAVITY SEWERS, THE TAPE SHALL BE SECURED TO EACH MANHOLE. THE PROTECTION TAPE SHALL BE
- INSTALLED DURING BACK FILLING 12" BELOW FINAL GRADE DIRECTLY OVER THE PIPE. THE TAPE SHALL HAVE A METALLIC DETECTABLE STRIP SANDWICHED BETWEEN 2 LAYERS OF POLYETHYLENE, 2" WIDE STRIPPING WITH A THICKNESS OF 5.5 MILS.
- (BLUE TAPE) FOR WATER LINES, THE TAPE SHALL BE CONTINUOUSLY MARKED "CAUTION WATER LINE BELOW". (GREEN TAPE) FOR FORCE MAINS, THE TAPE SHALL BE CONTINUOUSLY MARKED "CAUTION, SEWAGE FORCE MAIN BELOW". (GREEN TAPE) FOR SANITARY SEWER LINES, THE TAPE SHALL BE CONTINUOUSLY MARKED "CAUTION, SEWER MAIN BELOW".

. (PURPLE TAPE) FOR RECLAIMED WATER LINES, THE TAPE SHALL BE CONTINUOUSLY MARKED "CAUTION RECLAIMED WATER LINE BELOW"

- 3. THE CONTRACTOR IS CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES, WHEN SHOWN, ARE APPROXIMATE, IT SHALL BE TH RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ACTUAL FIELD LOCATIONS FROM THE RESPECTIVE UTILITY COMPANY 48 HOURS BEFORE BEGINNING ANY WORK. SUNSHINE STATE CALL - 1-800-432-4770
- 4. ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DOCUMENTS REFERENCED HEREIN. ANY METHODS, PROCEDURE, STANDARDS, EQUIPMENT, OR MATERIALS WHICH ARE NOT COVERED OR SPECIFIED BY THE APPLICABLE PROVISIONS OF THE GOVERNING MUNICIPALITY WATER/SEWER STANDARDS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND F.D.O.T. UTILITIES SPECIFICATIONS, THE MOST STRINGENT SHALL APPLY. 5. ALL UTILITIES WILL BE INSTALLED UNDERGROUND.

WATER/SEWER CLEARANCE REQUIREMENTS:

- SANITARY SEWERS. STORM SEWERS AND STRUCTURES. RECLAIMED WATER MAINS. OR FORCE MAINS CROSSING WATER MAINS SHALL E LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 12 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF TH LOWER PIPE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS AND WATER JOINTS WILL BE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10 FEET BETWEEN ANY TWO JOINTS. WHERE THE MINIMUM 12 INCH SEPARATION CANNOT BE MAINTAINED, ONE OF THE FOLLOWING METHODS OF PROTECTION SHALL BE UTILIZED:
 - I. THE PROPOSED PIPE SHALL BE CONSTRUCTED OF PRESSURE RATED PVC PIPE, (MEETING THE AWWA C-900 OR C-905 SPECIFICATION) AND SHALL BE PRESSURE TESTED AT 150 PSI TO ASSURE TIGHTNESS PRIOR TO BACKFILLING.
 - II. EITHER THE WATER MAIN OR THE OTHER PIPE SHALL BE ENCASED IN A WATERTIGHT CARRIER PIPE. THE CARRIER PIPE SHALL BE OF MATERIALS APPROVED BY THE F.D.E.P. FOR USE IN WATER MAIN CONSTRUCTION.
 - III. USE WELDED, FUSED OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR OTHER PIPELINE. IV. USE OF PIPE OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E. HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE)
 - V. UNDERGROUND WATER MAINS SHALL BE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET, AND PREFERABLY TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED

VI. UNDERGROUND WATER MAINS SHALL BE A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET, AND PREFERABLY TEN

OR PRESSURE—TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62–610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY—TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

(10) FEET. BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY

- VII. UNDERGROUND WATER MAINS SHALL BE A HORIZONTAL DISTANCE OF AT LEAST TEN (10) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.
- VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS. WASTEWATER OR STORMWATER FORCE MAINS AND RECLAIMED WATER PIPELINES. UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLY TWELVE (12) INCHES, ABOVE OR AT LEAST TWELVE (12) INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE.
 - II. UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE—TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
 - III. AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYP ANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

HORIZONTAL SEPARATION BETWEEN PARALLEL LINES:

ACCORDANCE WITH ANSI/AWWA C104/A21.4.

SANITARY SEWERS, STORM SEWERS AND STRUCTURES, RECLAIMED WATER MAINS, OR FORCE MAINS SHALL BE INSTALLED AT LE FFFT FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS

- I. THE PROPOSED PIPE SHALL BE CONSTRUCTED OF PRESSURE RATED PVC PIPE, (MEETING THE AWWA C-900 OR C-905 SPECIFICATION) AND SHALL BE PRESSURE TESTED AT 150 PSI TO ASSURE TIGHTNESS PRIOR TO BACK FILLING. II. EITHER THE WATER MAIN OR THE OTHER PIPE SHALL BE ENCASED IN A WATERTIGHT CARRIER PIPE. THE CARRIER PIPE SHALL BE OF MATERIALS APPROVED BY THE F.D.E.P. FOR USE IN WATER MAIN CONSTRUCTION.
- III. USE WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR OTHER PIPELINE. IV. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E. HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE)

C. SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MAINS:

- NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE A. WATER MAIN SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART O A STORM SEWER MANHOLE OR INLET STRUCTURE. WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THIS REQUIREMENT THE WATER MAIN SHALL BE CONSTRUCTED WITH A CONFLICT MANHOLE AS FOLLOWS: I. EACH WATER MAIN PASSING THROUGH A CONFLICT MANHOLE SHALL HAVE A FLEXIBLE, WATERTIGHT JOINT ON EACH SIDE OF THE MANHOLE TO ACCOMMODATE DIFFERENTIAL SETTLING BETWEEN THE MAIN AND THE MANHOLE. II. WITHIN EACH CONFLICT MANHOLE, THE WATER MAIN PASSING THROUGH THE MANHOLE SHALL BE INSTALLED IN A
- WATERTIGHT CASING PIPE HAVING HIGH IMPACT STRENGTH (I.E., HAVING IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE). III. EACH CONFLICT MANHOLE SHALL HAVE AN ACCESS OPENING, AND SHALL BE SIZED, TO ALLOW FOR EASY CLEANING OF

V. GRATINGS SHALL BE INSTALLED AT ALL STORM SEWER INLETS UPSTREAM OF EACH CONFLICT MANHOLE TO PREVENT LARGE

OBJECTS FROM ENTERING THE MANHOLE NOTE: WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATIONS AS STIPULATED ABOVE, THE F.D.E.P. MAY ALLOW DEVIATION ON A CASE-BY-CASE BASIS IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. APPROVAL FOR THE DEVIATION MUST BE OBTAINED FROM THE PROJECT ENGINEER AND THE F.D.E.P. PRIOR TO CONSTRUCTION.

WATER SYSTEM NOTES

- 1. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER BASED ON FINAL GRADING.
- 2. ALL WATER SYSTEM WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS 3. ALL DUCTILE IRON PIPE SHALL BE CLASS 50 IN ACCORDANCE WITH ANSI/AWWA C150/A21.50 AND PIPE SHALL RECEIVE EXTERIOR BITUMINOUS COATING AND SHALL BE CEMENT MORTAR LINED, STANDARD THICKNESS, IN
- 4. ALL FITTINGS LARGER THAN 3" SHALL BE DUCTILE IRON IN ACCORDANCE WITH A.W.W.A. C-110 WITH A PRESSURE RATING OF 350 P.S.I. JOINTS SHALL BE MECHANICAL JOINTS IN ACCORDANCE WITH AWWA C-111. FITTINGS SHALL BE CEMENT MORTAR LINED AND COATED IN ACCORDANCE WITH AWWA C-104.
- 5. ALL PVC POTABLE WATER MAINS 4" THROUGH 12" SHALL BE AWWA C-900 (CLASS 150), DR 18 PVC, AND 14" THROUGH 24" AWWA C-905 (CLASS 165), DR-25 PVC; WITH AWWA APPROVED DUCTILE IRON MECHANICAL JOINT FITTINGS. THE PIPE SHALL BE SOLID BLUE WITH WHITE OR BLACK LETTERING. 6. ALL PVC FIRE MAINS 4" THROUGH 12" SHALL BE AWWA C-900 (CLASS 200), DR 14 PVC WITH AWWA APPROVED DUCTILE IRON MECHANICAL JOINT FITTINGS. THE PIPE SHALL BE SOLID BLUE WITH WHITE OR BLACK LETTERING.
- 8. ALL GATE VALVES 3" OR LARGER SHALL BE RESILIENT SEAT OR RESILIENT WEDGE MEETING THE REQUIREMENTS OF

7. ALL PVC PIPE AND FITTINGS 3" AND SMALLER SHALL BE SCHEDULE 40 P.V.C. WITH SOLVENT WELDED SLEEVE TYPE

9. ALL FIRE HYDRANTS SHALL MEET THE REQUIREMENTS OF AWWA C502 AND SHALL BE APPROVED BY THE LOCAL UTILITY AND FIRE MARSHAL.

10. THE CONTRACTOR IS TO INSTALL TEMPORARY BLOW-OFFS AT THE END OF WATER SERVICE LATERALS TO ASSURE

ADEQUATE FLUSHING AND DISINFECTION. 11. MATERIALS AND CONSTRUCTION METHODS FOR WATER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY CODES, PLANS, AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF, AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL POTABLE WATER SERVICE MAIN EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE LOCAL REGULATORY AGENCY.

WATER SYSTEM TESTING AND INSPECTION REQUIREMENTS

- 1. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. PRESSURE TESTS TO BE IN ACCORDANCE WITH WATER DEPARTMENT SPECIFICATIONS. CONTRACTOR TO NOTIFY OWNER'S ENGINEER AND WATER DEPARTMENT INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS.
- 2. CONTRACTOR TO PERFORM CHLORINATION. BACTERIOLOGICAL SAMPLING SHALL BE BY THE LOCAL PUBLIC HEALTH UNIT AND/OR LOCAL UTILITY. CONTRACTOR SHALL OBTAIN CLEARANCE OF DOMESTIC WATER SYSTEM. COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO
- CONDUCTED ON ALL NEWLY-INSTALLED WATER DISTRIBUTION SYSTEM PRESSURE PIPES AND APPURTENANCES. THESE TESTS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF A.W.W.A.

3. A HYDROSTATIC TEST CONSISTING OF PRESSURE TEST AND LEAKAGE TEST SHALL BE

4. ALL SAMPLING IS TO BE PERFORMED BY THE CONTRACTOR AND SUBMITTED TO A DHS 5. ALL NEWLY-INSTALLED WATER DISTRIBUTION SYSTEMS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651 — DISINFECTING WATER MAINS.

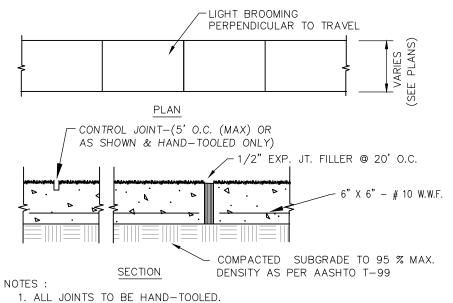
SANITARY SEWER NOTES

- 1. ALL SANITARY SEWER MAINS & LATERAL SHALL HAVE A MINIMUM OF 36" OF COVER BASED ON
- 2. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW WORK TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING CONNECTION POINT AND NOTIFY OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
- 3. ALL PVC GRAVITY SEWER MAINS AND SERVICE LATERALS SHALL CONFORM TO ASTM-D-3034, SDR35; FOR DEPTHS OF 0-12 FEET, SDR26 FOR DEPTHS OF 12-18 FEET AND DUCTILE IRON FOR DEPTHS BELOW 18 FEET. (SEE NOTE 7 BELOW) WITH PVC SLIP JOINT FITTING IN ACCORDANCE WITH ASTM SPECIFICATIONS SECTION D2321 AND SHALL BE SOLID GREEN PIPE WITH WHITE LETTERS. PIPES INSTALLED AT DEPTHS OF LESS THAN 4' SHALL BE AWWA C-900 (CLASS 100), DR-25 PVC OR C-905 (CLASS 165), PVC DR-25.
- 4. ALL DUCTILE IRON PIPE SHALL BE CLASS 50 IN ACCORDANCE WITH ANSI/AWWA C150/A21.50 AND PIPE SHALL RECEIVE EXTERIOR BITUMINOUS COATING AND SHALL BE CEMENT MORTAR LINED, STANDARD THICKNESS, IN ACCORDANCE WITH ANSI/AWWA C104/A21.4.
- 5. ALL FITTINGS LARGER THAN 3" SHALL BE DUCTILE IRON IN ACCORDANCE WITH AWWA C-110 WITH A PRESSURE RATING OF 350 P.S.I. JOINTS SHALL BE MECHANICAL JOINTS IN ACCORDANCE WITH AWWA C-111. FITTINGS SHALL BE CEMENT MORTAR LINED AND COATED IN ACCORDANCE WITH AWWA C-104.
- 6. ALL PVC FORCE MAINS 4" THROUGH 12" SHALL BE AWWA C-900 (CLASS 100), DR-25 PVC AND 14" THROUGH 24" SHALL BE AWWA C-905 (CLASS 125), DR-25; WITH AWWA APPROVED DUCTILE IRON MECHANICAL JOINT FITTINGS. THE PIPE SHALL BE SOLID GREEN WITH WHITE OR
- 7. ALL PVC PIPE AND FITTINGS 3" AND SMALLER SHALL BE SCHEDULE 40 PVC WITH SOLVENT
- 8. ALL GATE VALVES 3" OR LARGER SHALL BE RESILIENT SEAT OR RESILIENT WEDGE MEETING THE REQUIREMENTS OF AWWA C509
- 9. ALL SANITARY SEWER COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADING. 10. PIPE LENGTHS SHOWN ARE APPROXIMATE AND SHOWN TO THE EDGE OF THE MANHOLES
- 11. MATERIALS AND CONSTRUCTION METHODS FOR SEWER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY CODES, PLANS, AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF, AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL SANITARY SEWER SERVICE MAIN EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE LOCAL REGULATORY AGENCY.

SANITARY SEWER TESTING & INSPECTION REQUIREMENTS ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE

- . CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATION AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR
- 3. ALL FORCE MAINS SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.

APPROVAL. COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S



- NOTES
- 2. CONCRETE SHALL BE 3,000 PSI, 4" THICK (MIN).
- 3. A MAXIMUM CROSS SLOPE OF 2%. 4. CONTROL JOINTS 5' O.C. MAX. (OR AS SHOWN) AND HAND-TOOLED

5. EXPANSION JOINTS 20' O.C. MAX. (1/2" WIDE

EXPANSION JOINT MATERIAL W/ 1/4" REVEAL

CONCRETE SIDEWALK DETAIL

1 1/2" (SP 9.5)— ASPHALTIC CONCRETÉ BASE COURSE, └6" LIMEROCK FDOT CERTIFIED COMPACTED TO 98% MAX. DENSITY PER AASHTO T-180

6" CONCRETE (4000 PSI) 12" COMPACTED SUBGRADE TO 98% MAX DENSITY PER AASHTO T-180 CONCRETE PAVEMENT DETAIL

PROPOSED 12"

COMPACTED SUBGRADE

N.T.S.

PAVEMENT COURSE

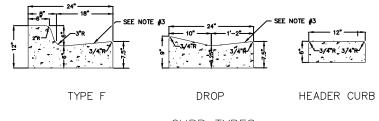
6"X6" #10 W.W.F

PROPOSED 6'

COURSE

CONCRETE PAVEMENT

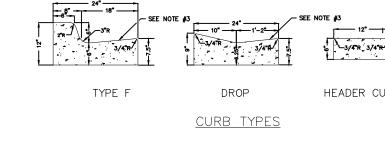
JQUQUQUQUQUQUQUQU



- SEE F.D.O.T. INDEX NO. 300 FOR ADDITIONAL DETAILS
- 4. FOR CURB, GUTTER, AND CURB & GUTTER PROVIDE # 4 CONTRACTION JOINTS AT 10' CENTERS (MAX.). CONTRACTION JOINTS ADJACENT TO CONCRETE PAVEMENT ON TANGENTS AND FLAT CURVES ARE TO MATCH THE PAVEMENT JOINTS, WITH INTERMEDIATE JOINTS NOT TO EXCEED 10' CENTERS. CURB. GUTTER AND CURB &
- 5. A 1/2" EXPANSION JOINT IS REQUIRED BETWEEN CONCRETE PAVEMENT AND CURBS

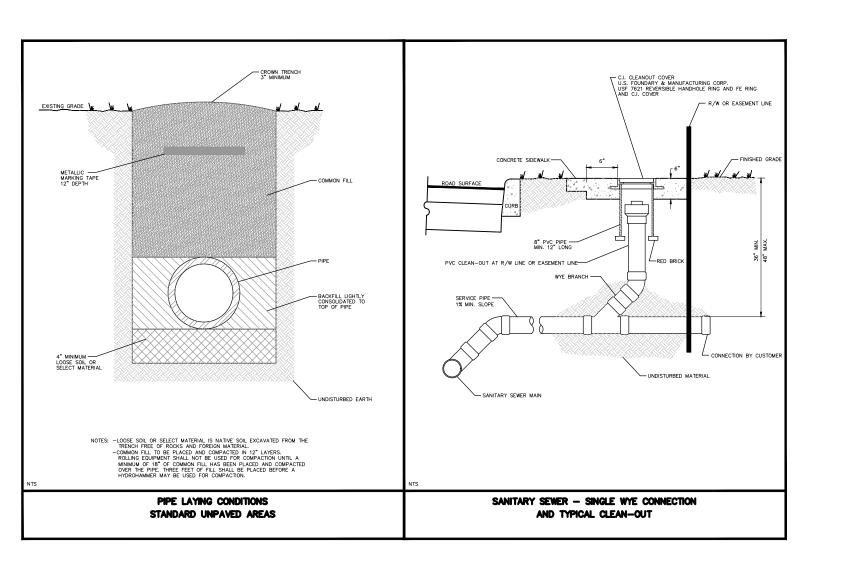
9" STABILIZED SUBGRADE-(LBR 40)-AND COMPACTED TO 98% MAX. DENSITY PER AASHTO T-180 TYPICAL ASPHALT PAVEMENT STRUCTURE N.T.S.

TYPE B PERFORMED JOINT FILLER TYPE D PERFORMED JOINT FILLER TYPE B



- 2. THE PAVEMENT SURFACE ON LOW PAVEMENT EDGE IS TO BE 1/4" ABOVE THE LIP OF THE GUTTER. THE PAVEMENT SURFACE ON THE HIGH PAVEMENT EDGE IS TO BE
- 3. GUTTER SLOPES WHEN USED ON THE HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON THE PLANS.
- TER EXPANSION JOINTS SHALL BE LOCATED IN ACCORDANCE WITH SECTION 520 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 6. ENDS OF TYPE "D" CURBS SHALL TRANSITION FROM FULL TO ZERO HEIGHTS IN 3'.

CURB AND GUTTER DETAILS



____ $\overline{}$ ¥,

 \sim

 $\mathbb{K} \circlearrowleft \mathsf{X}$

 $\square \square$

M

 \square

ISSUE DATE

GENERAL NOTES & DETAILS

DRAWN BY: HPB JOB No.: 22001

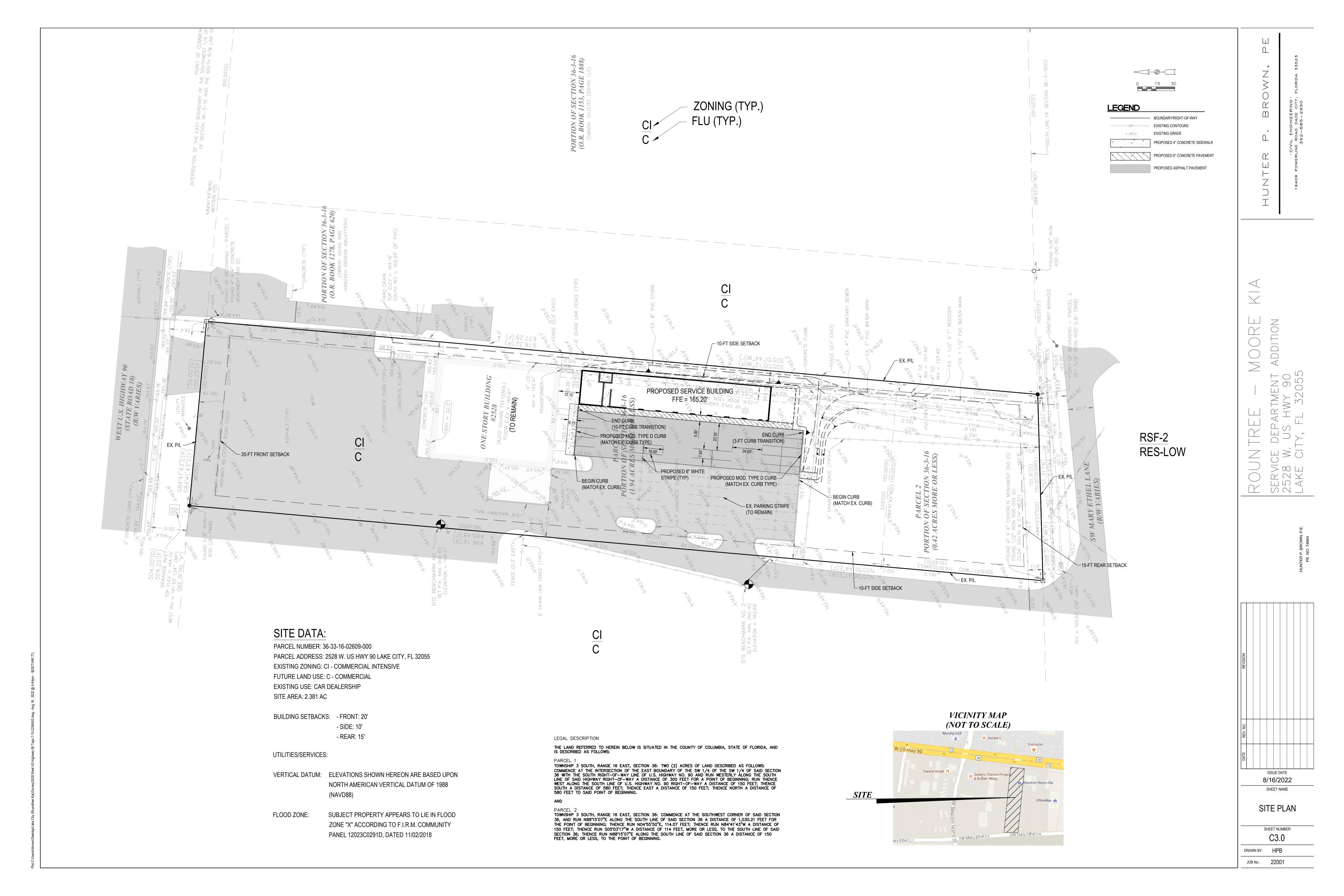
8/16/2022 SHEET NAME

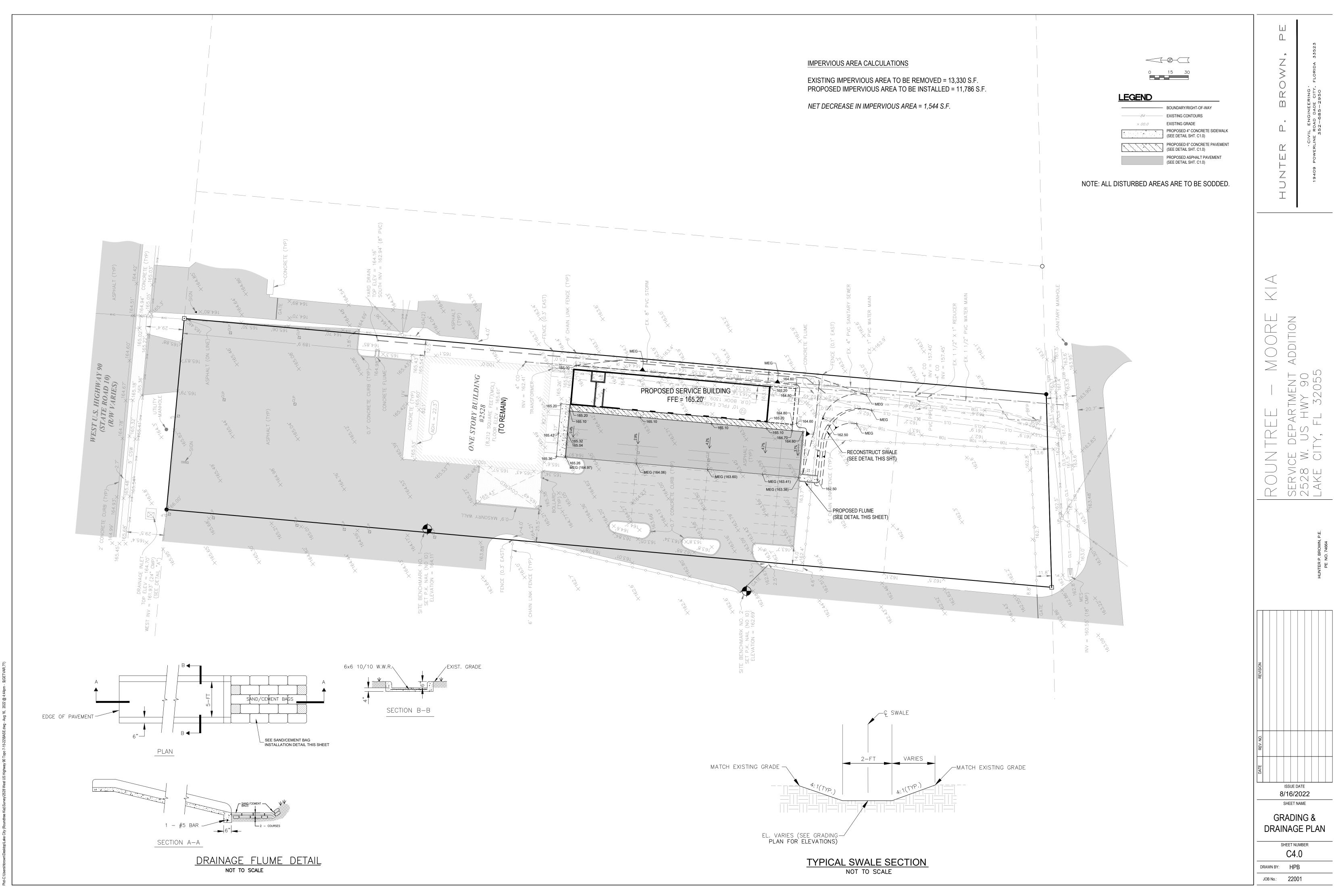
SHEET NUMBER

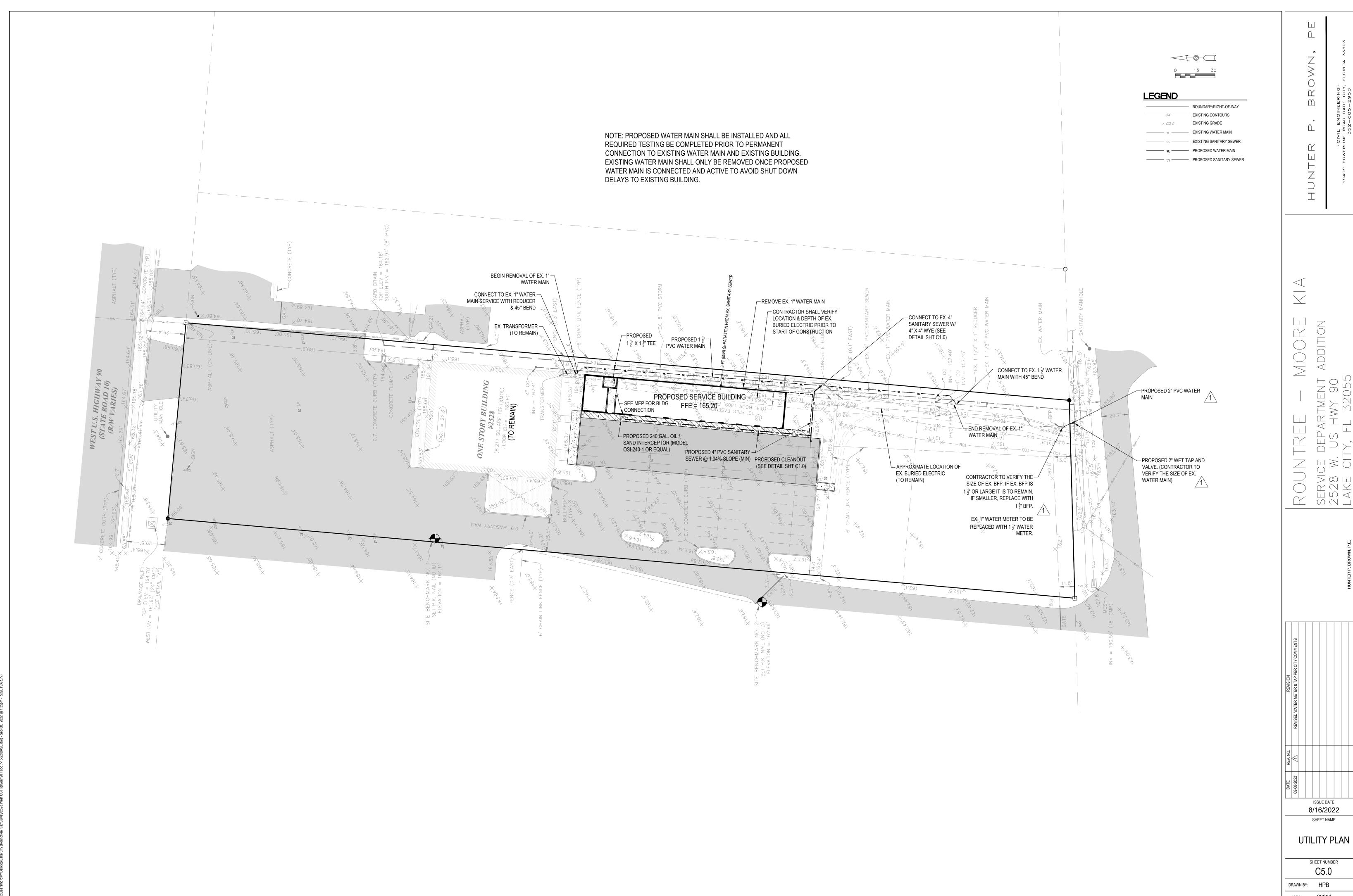


8/16/2022

DRAWN BY: HPB







SER / SER /

8/16/2022

DRAWN BY: HPB JOB No.: 22001