

PAVING, GRADING & DRAINAGE

1. UPPER 1" ROADWAY SURFACED SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 1557. DENSITY TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO PLACING THE LIMEROCK. PROVIDE ONE TEST FOR EVERY 4000 SQUARE FEET OF AREA TO BE PAVED.
2. LIMEROCK SHALL MEET THE REQUIREMENTS OF BROWARD COUNTY.
3. LIMEROCK BASE SHALL BE COMPACTED IN TWO FOUR INCH LIFTS TO 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 1557. CONTRACTOR SHALL SUBMIT DENSITY TEST RESULTS PRIOR TO ASPHALT PLACEMENT. PROVIDE ONE TEST FOR EVERY 4000 SQUARE FEET OF AREA TO BE PAVED.
4. TYPE 5-1 ASPHALT SURFACE COURSE SHALL MEET THE REQUIREMENTS OF SECTION 532 OF THE 1982 D.O.T. STANDARD SPECIFICATIONS.
5. CORRUGATED METAL PIPE SHALL MEET THE REQUIREMENTS FOR SECTION 943 OF THE 1982 D.O.T. STANDARD SPECIFICATIONS.
6. ALL CONCRETE SHALL DEVELOP A MINIMUM OF 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNDERGROUND UTILITIES WHETHER SHOWN OR NOT ON PLANS. CONTRACTOR SHALL CALL THE UTILITY LOC. TOLL FREE NUMBER (1-800-432-4770) AND NOTIFY ALL UTILITIES INVOLVED PRIOR TO CONSTRUCTION. ANY ADDITIONAL UTILITIES FOUND SHALL BE SHOWN ON RECORD DRAWINGS.
8. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF ANY KIND THAT WILL COME UNDER THE PAVEMENT OR WITHIN 10 FEET OF ITS EDGES SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE BASE.
9. BROWARD COUNTY REGULATIONS SHALL GOVERN CONSTRUCTION. WHERE APPLICABLE, CURRENT STATE STANDARDS SHALL BE IN FORCE.
10. ALL ELEVATIONS REFER TO H.O.S. DURING N.E.L.: N.G.V.D.
11. IF MUCK IS ENCOUNTERED, IT MUST BE COMPLETELY REMOVED FROM THE LIMITS OF THE R/W, AND FILL WITHIN AND DEPTH OF ALL DRAINFIELDS.
12. MINIMUM FLOOR ELEVATION SHALL BE +27.14 H.O.S.
13. PRIME COAT SHALL BE APPLIED AT A MINIMUM RATE OF 0.25 GAL./SQ. YARD USING AN RC-70, RC-70 GRADE MATERIAL.
14. BEFORE CONSTRUCTION OF THE LIMEROCK BASE MAY COMMENCE, IT WILL BE NECESSARY FOR A LITERATURE AND GIVE ANALYSIS OF THE STOCK PILES FROM WHICH THE LIMEROCK IS TO BE SHELLED. ANALYSIS RESULTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD.
15. ALL LOCATIONS WHERE UNDERGROUND UTILITIES HAVE BEEN BACKFILLED UNDER PAVEMENT, DENSITY TESTS OF THE COMPLETED BACKFILL MATERIAL WILL BE REQUIRED PRIOR TO BASE COURSE INSTALLATION. A COPY OF THE TESTS SHALL BE SENT TO THE ENGINEER OF RECORD. TEST SHALL COMPLE AT THE TOP OF CONDUIT, EVERY 12 INCHES TO BOTTOM OF BASE. BACKFILL SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D 1557. TEST TO BE SHELLED AT 200 FEET INTERVALS.
16. A PRE-CONSTRUCTION MEETING WILL BE REQUIRED TO PLAN TESTING, AND DISCUSS IN GENERAL ALL REQUIREMENTS RELATED TO CONSTRUCTION. THE CONTRACTOR SHALL PREPARE ANY JOB RELATED QUESTIONS FOR THIS MEETING.
17. RECORD INFORMATION CERTIFIED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA SHALL BE SUBMITTED TO THE ENGINEER OF RECORD IN THE FORM OF A SERIA PRIOR TO FINAL ACCEPTANCE OF THE SYSTEM. RECORD INFORMATION TO BE PAID FOR BY THE CONTRACTOR.
18. SHOP DRAWINGS OF ALL MATERIAL BEING USED SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO INSTALLATION.
19. "AS-BUILT" DRAWINGS OF TOP OF ROAD ELEVATIONS SHALL BE SUBMITTED TO THIS ENGINEER PRIOR TO ASPHALT PLACEMENT.
20. THE CONTRACTOR SHALL PROVIDE CORE SAMPLES, ANALYZED BY AN INDEPENDANT TESTING LABORATORY, TO VERIFY ASPHALT AND LIMEROCK THICKNESS. LOCATION OF THE SAMPLES ARE AT THE OPTION OF THE ENGINEER OF RECORD. A MINIMUM OF 4 SAMPLES ARE TO BE PROVIDED.

FIELD OBSERVATIONS - PAVING, GRADING & DRAINAGE

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD 48 HOURS IN ADVANCE TO OBSERVE THE FOLLOWING:
 1. DRAINFIELD INSTALLATIONS PRIOR TO BACKFILL.
 2. DRAINAGE TRENCHES PRIOR TO BACKFILL.
 3. PIPE JOINTS PRIOR TO BACKFILL.
 4. INLETS PRIOR TO BACKFILL.
 5. CONFLICTS WITH OTHER UNDERGROUND UTILITIES PRIOR TO BACKFILL.
 6. COMPACTED SUBGRADE.
 7. COMPACTED BASE COURSE.
 8. PRIME COAT PRIOR TO ASPHALT.
 9. FINISHED ASPHALT.
 10. ALL CONCRETE FORM WORK PRIOR TO POURING CONCRETE.
 11. FINAL OBSERVATION AT JOB COMPLETION.

RECORD INFORMATION - PAVING, GRADING, AND DRAINAGE

- THE FOLLOWING RECORD INFORMATION SHALL BE PROVIDED BY THE CONTRACTOR AND PREPARED BY A REGISTERED LAND SURVEYOR:
1. "AS-BUILT" RIM ELEVATIONS OF ALL DRAINAGE STRUCTURES.
 2. "AS-BUILT" INVERT ELEVATIONS OF ALL DRAINAGE PIPE, AT STRUCTURES AND OUT-FALL CONNECTIONS.
 3. TOP OF RAFFLE WALL AND INVERT OF WEIRS AND/OR ORIFICES IN OVERFLOW MANHOLES.
 4. ELEVATION TOP AND BOTTOM OF ENDWALLS, CONCRETE OR RIP-RAP.
 5. "AS-BUILT" ELEVATION TOP OF ROAD.
 6. "AS-BUILT" ELEVATION OF TOP OF BANK, WATERS EDGE, TOE OF SLOPE, AND BOTTOM OF INTERCOASTAL WATERWAY. SIDE SLOPES TO BE INCLUDED.

SEWER COLLECTION SYSTEM

1. ALL SANITARY SEWER LINES SHALL BE POLYVINYL CHLORIDE PIPE, SDR 35 IN CONFORMANCE WITH ASTM D 2689. MANHOLE AND SHALL BE INSTALLED IN CONFORMANCE WITH A.S.T.M. D 1557.
2. ALL SANITARY SEWER LINES SHALL BE 60" DIA. IRON PIPE IN CONFORMANCE WITH A.S.T.M. D 2689. MANHOLE AND SHALL BE INSTALLED IN CONFORMANCE WITH A.S.T.M. D 1557.
3. THE FOLLOWING TESTS SHALL BE CONDUCTED PRIOR TO CONSTRUCTION OF THE BASE IN PAVED LOCATIONS:
 1. DURING CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO HAVE A REGISTERED LAND SURVEYOR REVIEW AND RECORDED RECORD DRAWINGS OF ALL INSTALLATIONS AND UPON COMPLETION, SAID DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD. RECORD DRAWINGS TO BE PAID FOR BY THE CONTRACTOR.
 2. ALL INSTALLATIONS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE STANDARDS OF BROWARD COUNTY UTILITIES.
 3. CONTRACTOR SHALL PROTECT ALL PERMANENT REFERENCE MONUMENTS AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID DISTURBING SURVEY MARKERS DURING CONSTRUCTION.
 4. ALL UNSUITABLE MATERIAL SUCH AS ROCK, PAVE AND DEBRIS SHALL BE REMOVED FROM THE LIMITS OF CONSTRUCTION.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE PLANS. CONTRACTOR SHALL CALL THE UTILITY LOC. TOLL FREE NUMBER (1-800-432-4770) AND NOTIFY ALL UTILITIES INVOLVED PRIOR TO CONSTRUCTION. ANY ADDITIONAL UTILITIES LOCATED SHALL BE SHOWN ON RECORD DRAWINGS.
 6. A PRE-CONSTRUCTION MEETING SHALL BE REQUIRED BY THE CONTRACTOR PRIOR TO ANY WORK. THIS ENGINEER AND BROWARD COUNTY UTILITIES REPRESENTATIVE PRESENT.
 7. ALL SEWER LINES SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
 8. SANITARY SEWER SERVICES WILL BE PROVIDED BY BROWARD COUNTY UTILITIES.
 9. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER OF RECORD IN BROWARD COUNTY PRIOR TO INSTALLATION OR FABRICATION.
 10. SEWER PIPING SHALL BE Laid AT LEAST 10 FEET HORIZONTALLY FROM EXISTING OR PROPOSED WATER MAINS.
 11. A VERTICAL DISTANCE OF AT LEAST 18 INCHES SHOULD BE MAINTAINED WHEN A SEWER PIPE CROSSES UNDER A WATER MAIN. IF THIS IS NOT POSSIBLE, THE SEWER PIPE MUST BE ENCASED IN CONCRETE WITH A MINIMUM THICKNESS OF 4" FOR A DISTANCE OF 20 FEET CENTER TO CENTER OF CROSSING OR THE SEWER MUST BE OF WATER MAIN QUALITY WITH EQUAL LENGTHS OF PIPE CENTERING ON THE POINT OF CROSSING.
 12. IF A CROSSING WHERE THE WATER MAIN IS ABOVE A WATER MAIN IS UNAVOIDABLE, THE ABOVE MENTIONED PRECAUTIONS SHALL BE OBSERVED REGARDLESS OF THE DISTANCE OF VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER PIPING.

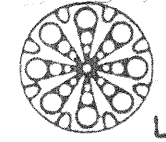
FIELD OBSERVATIONS - SEWER

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD 48 HOURS IN ADVANCE TO OBSERVE THE FOLLOWING:
 1. SEWER MANHOLE PRIOR TO BACKFILL.
 2. PIPE JOINTS PRIOR TO BACKFILL.
 3. SEWER LATERALS PRIOR TO BACKFILL.
 4. CONNECTIONS TO EXISTING SEWER LINES, GRAVITY OR FORCE.
 5. CONFLICTS WITH OTHER UNDERGROUND UTILITIES PRIOR TO BACKFILL.
 6. MANHOLES PRIOR TO BACKFILL.
 7. MANHOLE INVERTS, CLEAN OUTS.
 8. SEWER LATERALS PRIOR TO BACKFILL.
 9. FINAL OBSERVATION AT JOB COMPLETION.

RECORD INFORMATION - SEWER

- THE FOLLOWING RECORD INFORMATION SHALL BE PROVIDED BY THE CONTRACTOR AND PREPARED BY A REGISTERED LAND SURVEYOR:
1. "AS-BUILT" LOCATION OF EACH MANHOLE.
 2. LINEAR FOOTAGE OF ALL INSTALLED SEWER MAINS AND LATERALS.
 3. "AS-BUILT" INVERT ELEVATIONS OF EACH MANHOLE.
 4. "AS-BUILT" RIM ELEVATIONS OF EACH MANHOLE.
 5. "AS-BUILT" SEWER SLOPE.
 6. TYPES OF MATERIALS INSTALLED, BRAND AND SERVICES.
 7. LOCATIONS OF, AND LEGAL DESCRIPTION FOR ALL UTILITY EASEMENTS.
 8. "AS-BUILT" SKETCHES OF ALL CROSSINGS, INCLUDING, BUT NOT LIMITED TO, WATER MAIN CROSSINGS SEWER MAIN AND SEWER MAIN CROSSINGS SEWER DRAINAGE PIPES.

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