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# Oversized Drawings

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Map-4073

# IMPROVEMENT PLANS FOR HANCOCK TOWNE CENTRE - LOT 5

Section 28; Township 22 S; Range 26 E; Lake County  
**CLERMONT, FLORIDA**  
NOVEMBER 2006

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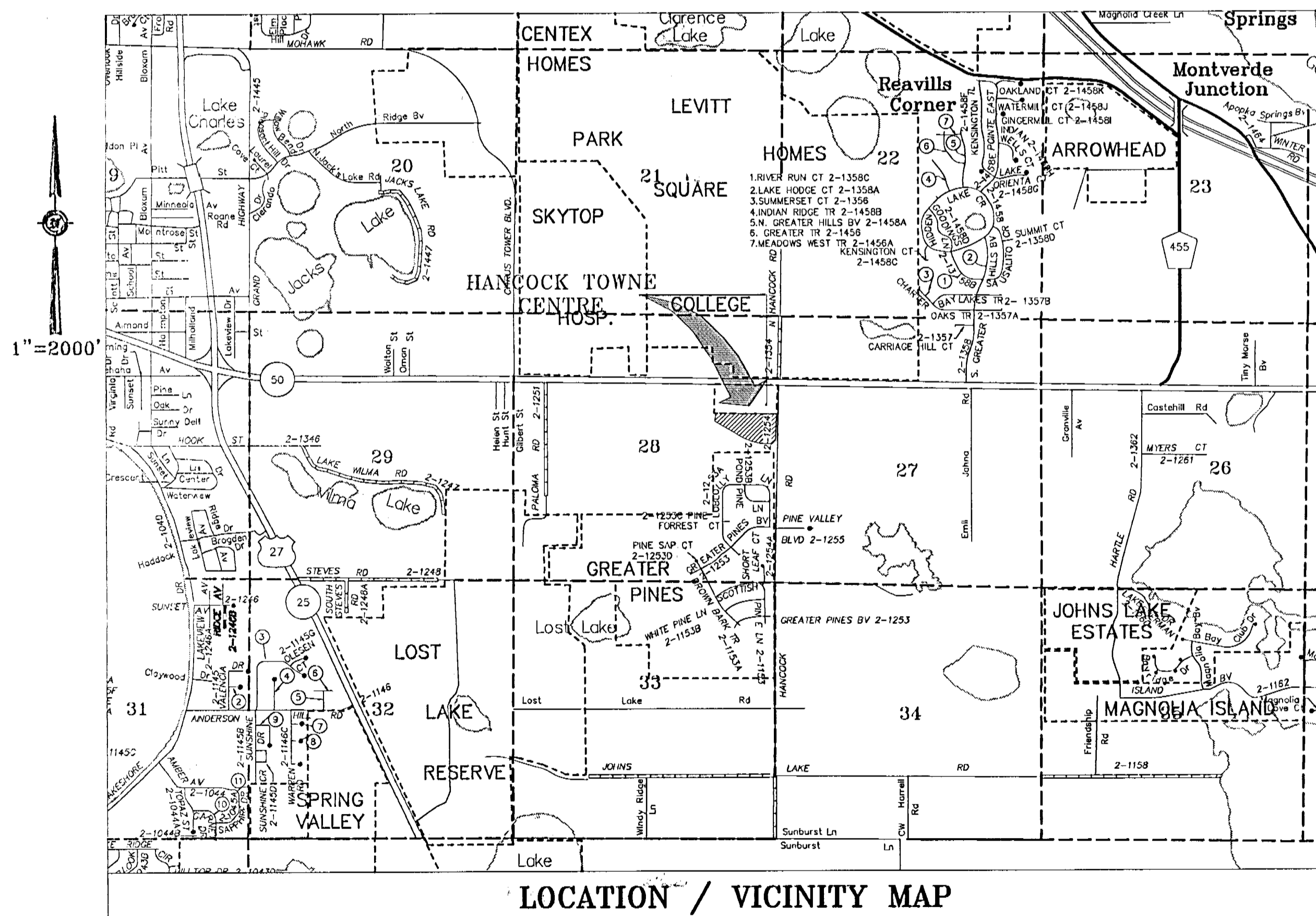
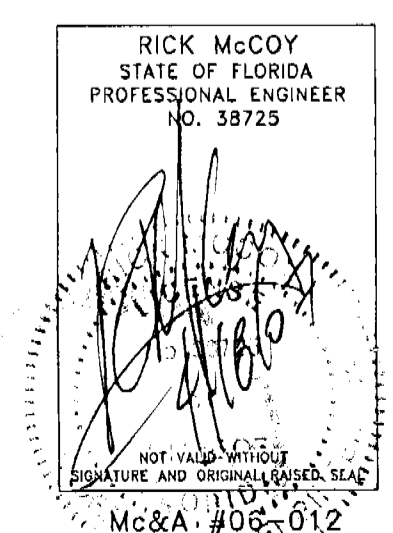


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NOTE: ALL PROJECT CONSTRUCTION SHALL CONFORM TO THE CURRENT CLERMONT STANDARDS AND SPECIFICATIONS.  
ALL CONSTRUCTION IN THE F.D.O.T. ROW SHALL CONFORM TO THE CURRENT EDITION AND UPDATES OF THE DESIGN STANDARDS MANUAL.

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GENERAL PROJECT DATA

FOR IDENTIFICATION OF CONTRACTUAL AGREEMENTS, THIS SET OF DRAWINGS IS DATED XXXXXX XX, XXXX, ANY REVISIONS THEREAFTER WILL BE NOTED AND DATED ON THE AFFECTED DRAWING(S).

THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN THE CONVEINENCE OF THE CONTRACTOR. THE CONTRACTOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS TO THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY. WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY, ALL UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANY AND THE CONTRACTOR SHALL COOPERATE WITH THEM DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED.

DRAINAGE SYSTEMS

THE CONTRACTOR SHALL PERFORM ALL WORK PERTAINING TO DRAINAGE INCLUDING EXCAVATION OF WRAS PRIOR TO THE COMMENCEMENT OF OTHER WORK INCLUDED IN THESE PLANS. THE DRAINAGE FACILITIES SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE COURSE OF THIS CONTRACT. THE CONTRACTOR SHALL INCLUDE FUNDS IN THE BIDDING COSTS OF THE CONTRACT TO OPERATE AND MAINTAIN THE DRAINAGE SYSTEMS DURING THE WORK PROCESS.

THE UTILITIES ARE THE PROPERTY OF THE FOLLOWING:

Table with 3 columns: WATER, POWER, and OTHER. Lists utility names, addresses, and phone numbers.

Table with 3 columns: CABLE, GAS, and OTHER. Lists utility names, addresses, and phone numbers.

Table with 2 columns: TELEPHONE and AT&T. Lists utility names and phone numbers.

AS-BUILTS

AS-BUILTS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER TWO WEEKS PRIOR TO FINAL INSPECTION. ALL AS-BUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEALED AND DATED BY THE RESPONSIBLE PARTY. SEE INDIVIDUAL SECTIONS (STORM, WATER SYSTEM, ETC.) FOR ADDITIONAL AS-BUILT REQUIREMENTS.

PERMITS AND PERMIT REQUIREMENTS

THE CONTRACTOR SHALL OBTAIN FROM THE OWNER COPIES OF ALL REGULATORY AND LOCAL AGENCY PERMITS. THE CONTRACTOR SHALL BE EXPECTED TO REVIEW AND ABIDE BY ALL THE REQUIREMENTS AND LIMITATIONS SET FORTH IN THE PERMITS. A COPY OF THE PERMIT SHALL BE KEPT ON THE JOB AT ALL TIMES.

LAYOUT AND CONTROL

UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL PROVIDE FOR THE LAYOUT OF ALL THE WORK TO BE CONSTRUCTED. BENCHMARK INFORMATION SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER OR OWNER'S SURVEYOR. ANY DISCREPANCIES BETWEEN FIELD MEASUREMENTS AND CONSTRUCTION PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

QUALITY CONTROL TESTING REQUIREMENTS

ALL TESTING RESULTS SHALL BE PROVIDED TO THE OWNER/OPERATOR, CITY OF CLERMONT, AND THE ENGINEER. TESTING REQUIREMENTS ARE TO BE IN ACCORDANCE WITH THE OWNER/OPERATOR'S SPECIFICATIONS AND REQUIREMENTS. ALL TEST RESULTS SHALL BE PROVIDED (PASSING AND FAILING) ON A REGULAR AND IMMEDIATE BASIS. CONTRACTOR SHALL PROVIDE TESTING SERVICES THROUGH A FLORIDA LICENSED GEOTECHNICAL ENGINEERING FIRM ACCEPTABLE TO THE OWNER AND THE ENGINEER. CONTRACTOR TO SUBMIT TESTING FIRM TO OWNER FOR APPROVAL PRIOR TO COMMENCING TESTING.

SHOP DRAWINGS

SHOP DRAWINGS AND CERTIFICATIONS FOR ALL STORM DRAINAGE, WATER SYSTEM, SEWER SYSTEM, AND PAVING SYSTEM MATERIALS AND STRUCTURES ARE REQUIRED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION.

EARTHWORK

EARTHWORK QUANTITIES

THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATIONS AND CALCULATIONS AS NECESSARY TO ASSURE HIMSELF OF EARTHWORK QUANTITIES. THERE IS NO IMPLICATION THAT EARTHWORK BALANCES, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPORT FILL NEEDED, OR FOR REMOVAL AND DISPOSAL OF EXCESS MATERIALS.

EROSION CONTROL

EROSION AND SILTATION CONTROL MEASURES ARE TO BE PROVIDED AND INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THESE MEASURES ARE TO BE INSPECTED BY THE CONTRACTOR ON A REGULAR BASIS AND ARE TO BE MAINTAINED OR REPAIRED ON AN IMMEDIATE BASIS AS REQUIRED. REFER TO WATER MANAGEMENT DISTRICT PERMIT FOR ADDITIONAL REQUIREMENTS FOR EROSION CONTROL AND SURFACE DRAINAGE. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED WITH SEED AND MULCH OR SOODED WITHIN 30 DAYS OF COMPLETION OF CONSTRUCTION.

WETLAND PROTECTION

THE LIMITS OF THE ON-SITE WETLANDS HAVE BEEN PROVIDED TO THE CONTRACTOR ON THE CONSTRUCTION PLANS OR ON PERMIT MATERIALS. THE WETLANDS ARE TO BE PROTECTED FROM DISTURBANCE AT ALL TIMES. CONTRACTOR SHALL PROVIDE EROSION, SILTATION, AND DIVERSION MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN A COPY OF EACH PERMIT RELATING TO WETLANDS AND WATER MANAGEMENT AND ADHERE TO ALL PROVISIONS AND CONDITIONS THERETO.

LIMITS OF DISTURBANCE

AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER. REPAIR OR RECONSTRUCTION OF DAMAGED AREAS ON SURROUNDING PROPERTIES SHALL BE PERFORMED BY THE CONTRACTOR ON AN IMMEDIATE BASIS. ALL COSTS FOR REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE PROVIDED. GRADING AND/OR CLEARING ON PROPERTIES OTHER THAN SHOWN ON THE APPROVED PLANS IS PROHIBITED.

TREE REMOVAL

THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER WHEN ALL WORK IS LAD OUT (SURVEY STAKED), SO THAT A DETERMINATION MAY BE MADE OF SPECIFIC TREES TO BE REMOVED. NO TREES ON THE CONSTRUCTION PLANS AS BEING SAVED SHALL BE REMOVED WITHOUT PERMISSION FROM THE OWNER, ENGINEER AND THE CITY OF CLERMONT.

CLEARING AND GRUBBING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING AND GRUBBING FOR SITE CONSTRUCTION INCLUDING CLEARING FOR PAVING, UTILITIES, DRAINAGE FACILITIES AND BUILDING CONSTRUCTION. ALL AREAS TO BE CLEARED SHALL BE FIELD STAKED AND REVIEWED BY THE OWNER AND ENGINEER PRIOR TO ANY CONSTRUCTION.

MATERIAL STORAGE/DEBRIS REMOVAL

- 1) NO COMBUSTIBLE BUILDING MATERIALS MAY BE ACCUMULATED ON THE SITE AND NO CONSTRUCTION WORK INVOLVING COMBUSTIBLE MATERIALS MAY BEGUN UNTIL INSTALLATION OF ALL REQUIRED WATER MAINS AND FIRE HYDRANTS HAVE BEEN COMPLETED. DEEP APPROVAL RECEIVED FOR THE WATER MAINS, AND THE HYDRANTS ARE IN OPERATION. CONSTRUCTION WORK INVOLVING NON-COMBUSTIBLE MATERIALS, SUCH AS CONCRETE, MASONRY AND STEEL MAY BEGUN PRIOR TO THE FIRE HYDRANTS BEING OPERATIONAL.
2) ALL MATERIALS EXCAVATED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STOCKPILED AT ON-SITE LOCATIONS AS SPECIFIED BY THE OWNER. MATERIALS SHALL BE STOCKPILED SEPARATELY AS TO USABLE (NONORGANIC) FILL, STOCKPILES AND ORGANIC (MUCK) STOCKPILES IF MUCK IS ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL UNSUITABLE FILL MATERIALS FROM THE SITE. ALL CLAY ENCOUNTERED SHALL BE EXCAVATED OUT AND REPLACED WITH CLEAN GRANULAR FILL MATERIALS.

FILL MATERIAL

ALL MATERIALS SHALL CONTAIN NO MUCK, STUMPS, ROOTS, BRUSH, VEGETATIVE MATTER, RUBBISH OR OTHER MATERIAL THAT WILL NOT COMPACT IN A SUITABLE AND DENSIFIED BACKFILL. FILL SHALL BE CLEAN, NON-ORGANIC, GRANULAR MATERIAL WITH NOT MORE THAN 10% PASSING THE NO. 200 SIEVE.

COMPACTION

FILL MATERIALS PLACED UNDER ROADWAYS SHALL BE COMPACTED TO AT LEAST 98% OF THE MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. ALL OTHER FILL AREAS ARE TO BE COMPACTED TO AT LEAST 95% MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. FILL MATERIALS SHALL BE PLACED AND COMPACTED IN A MAXIMUM OF 12" LIFTS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND OWNER WITH ALL (PASSING AND FAILING) TESTING RESULTS. RESULTS SHALL BE PROVIDED ON A DAILY AND AN REGULAR BASIS PRIOR TO CONTRACTOR'S PAY REQUEST SUBMITTAL FOR THE AFFECTED WORK.

PAVEMENT AND/OR ROAD AND RIGHT-OF-WAY WORK

OWNER/OPERATOR

THE ENTITY THAT WILL OWN, OPERATE AND MAINTAIN THE ROADWAYS SHOWN ON THESE PLANS IS FOOT LAKE COUNTY OR THE CITY OF CLERMONT. THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THAT ENTITY.

GENERAL DESIGN INTENT

ALL PAVING SURFACES IN INTERSECTIONS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY IN THE DIRECTION SHOWN BY THE FLOW ARROWS ON THE PLANS AND TO PROVIDE A SMOOTHLY TRANSITIONED DRIVING SURFACE FOR VEHICLES WITH NO SHARP BREAKS IN GRADE, AND NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES. APPROACHES TO INTERSECTIONS AND ENTRANCE AND EXIT GRADGES TO INTERSECTIONS WILL HAVE TO BE STAKED IN THE FIELD AT DIFFERENT GRADES THAN THE CENTERLINE GRADES TO ACCOMPLISH THE PURPOSES OUTLINED. IN ADDITION, THE STANDARD CROWN WILL HAVE TO BE CHANGED IN ORDER TO DRAIN POSITIVELY IN THE AREA OF INTERSECTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH THE ABOVE AND THE ENGINEER SHALL BE CONSULTED SO THAT HE MAY MAKE ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS OR GIVE SUPPLEMENTARY INSTRUCTION TO ACCOMPLISH THE INTENT OF THE PLANS.

MATERIALS/CONSTRUCTION SPECIFICATIONS

MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 1991, OR LATEST EDITION.

PAVEMENT SECTION REQUIREMENTS

CONSTRUCTION OF ROADWAYS SHALL BE 12" OF STABILIZED SUBBASE WITH A LIME/ROCK BEARING RATIO OF (LBR) 40 COMPACTED TO THE MODIFIED PROCTOR MAXIMUM DRY DENSITY OF 98% PER AASHTO T-180, 6" OF LIME/ROCK BASE COURSE, (LBR) 100, COMPACTED TO THE MODIFIED PROCTOR MAXIMUM DRY DENSITY OF 98% PER AASHTO T-180 AND 2" TYPE S-III OF VIRGIN ASPHALTIC CONCRETE SURFACE COURSE WITH A MINIMUM STABILITY OF 1500 LBS. SUBGRADE PREPARATION AND PAVEMENT INSTALLATION SHALL CONFORM TO FDOT STANDARDS AND SOILS REPORT RECOMMENDATIONS.

SIDEWALKS

SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREA AS SHOWN ON THE CONSTRUCTION PLANS. THE 5' SIDEWALK SHALL BE CONSTRUCTED OF 4 INCHES OF CONCRETE WITH A 28 DAY COMPRESSION STRENGTH OF 2500 PSI. JOINTS SHALL BE EITHER TOoled OR SAWCUT AT A DISTANCE OF 5' LENGTHS. HANDCAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND BE IN ACCORDANCE WITH STATE REGULATIONS FOR HANDICAP ACCESSIBILITY.

PAVEMENT MARKINGS/SIGNAGE

PAVEMENT MARKINGS AND SIGNAGE SHALL BE PROVIDED AS SHOWN ON THE CONSTRUCTION PLANS AND SHALL MEET THE REQUIREMENTS OF THE OWNER/OPERATOR. SIGNAGE SHALL BE IN CONFORMANCE WITH MUTCD (LATEST EDITION). A 48-HOUR PAVEMENT CURING TIME WILL BE PROVIDED PRIOR TO APPLICATION OF THE PAVEMENT MARKINGS. REFLECTIVE PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT INDEX NO. 17352.

TRAFFIC CONTROL

AN MOT PLAN SHALL BE SUBMITTED TO THE INSPECTOR PRIOR TO COMMENCEMENT OF WORK. A MINIMUM OF 2-WAY, ONE LANE TRAFFIC SHALL BE MAINTAINED IN THE WORK SITE AREA. ALL CONSTRUCTION WORKING SIGNAGE SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION AND BE MAINTAINED THROUGHOUT CONSTRUCTION. ACCESS SHALL BE CONTINUOUSLY MAINTAINED FOR ALL PROPERTY OWNERS SURROUNDING THE WORK SITE AREA. LIGHTED WARNING DEVICES ARE TO BE OPERATIONAL PRIOR TO DUSK EACH NIGHT DURING CONSTRUCTION.

CURBING

CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. CONCRETE FOR CURBS SHALL BE DEPARTMENT OF TRANSPORTATION CLASS "1" CONCRETE WITH A 28 DAY COMPRESSION STRENGTH OF 2500 PSI. ALL CURBS SHALL HAVE SAW CUT CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (1991) SECTION 520 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.

R/W RESTORATION

ALL AREAS WITHIN THE RIGHTS-OF-WAY SHALL BE FINISH GRADED WITH A SMOOTH TRANSITION INTO EXISTING GROUND. ALL SHALES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING. ALL DISTURBED AREAS SHALL BE BAKED CLEAN OF ALL LIMESTONE AND ROCKS AND SOODED AFTER FINAL GRADING IN ACCORDANCE WITH THE CONSTRUCTION PLANS PRIOR TO FINAL INSPECTION. ALL GRASSING (SEED OR SOO) SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE BY THE OWNER/OPERATOR.

SITE ACCESS

ALL ACCESS TO THE JOB SITE FOR CONSTRUCTION AND RELATED ACTIVITIES SHALL BE BY EXISTING STREETS AND ROADS, OR BY THE CONSTRUCTION EASEMENT AS APPROVED BY THE CITY OF CLERMONT.

POTABLE WATER/FIRE SYSTEMS

OWNER/OPERATOR

THE ENTITY THAT WILL OWN, OPERATE AND MAINTAIN THE WATER SYSTEM SHOWN ON THESE PLANS IS CITY OF CLERMONT. THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THAT ENTITY, UNLESS OTHERWISE INDICATED ON PLANS.

PIPE MATERIALS

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL INFRASTRUCTURE TO BE CONSTRUCTED. WATER SYSTEM SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AND SHALL MEET CITY SPECIFICATIONS.

POLYVINYL CHLORIDE PLASTIC PIPE (PVC) 4" THROUGH 12" SHALL BE MANUFACTURED IN ACCORDANCE WITH ANS/AWWA C900 (LATEST EDITION) AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI AND A DR (DIMENSION RATIO) OF 18. ALL PVC PIPE SHALL BEAR THE NSF 1000 FOR POTABLE WATER. JOINTS SHALL BE OF THE PUSH-ON TYPE AND COUPLINGS CONFORMING TO ASTM D3139, DR18 PIPE.

DUCTILE IRON PIPE (DIP) SHALL BE STANDARD PRESSURE CLASS 350 IN SIZES 4" THROUGH 12" AND CONFORM TO ANS/AWWA C150/A21.10 (LATEST EDITION). ALL DUCTILE IRON PIPE SHALL HAVE A STANDARD THICKNESS OF CEMENT MORTAR LINING AS SPECIFIED IN ANS/AWWA C150/A21.10 (LATEST EDITION). PIPE JOINTS SHALL BE OF THE PUSH-ON RUBBER GASKET TYPE CONFORMING TO ANS/AWWA C111/A21.11 (LATEST EDITION).

PIPE DETECTOR WITH LOCATOR WIRE SHALL BE INSTALLED ON ALL WATER MAINS PER DETAL.

PIPE SIZES GREATER THAN 12" IN BOTH PVC AND DUCTILE IRON SHALL BE SEPARATELY SPECIFIED ON THE PLANS, WITH THICKNESS CLASSES TO BE SHOWN BASED ON WORKING PRESSURES, PIPE DEPTH AND TRENCH CONDITIONS.

FITTINGS FOR DUCTILE IRON PIPE AND PVC C-900 PIPE SHALL BE DUCTILE IRON AND SHALL CONFORM TO ANS/AWWA C153/A21.10 (LATEST EDITION) AND SHALL BE CEMENT LINED IN CONFORMANCE WITH ANS/AWWA C104/A21.4 (LATEST EDITION).

POLYETHYLENE WRAP USED FOR CORROSION PREVENTION ON DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANS/ASTM D1248. THE MINIMUM NOMINAL THICKNESS SHALL BE 0.008 IN. (8 MILS). INSTALLATION OF POLY WRAP SHALL BE IN ACCORDANCE WITH AWWA C105.

TRANSMISSION MAIN SHALL BE DIP RATED FOR 250 PSI.

VALVES

GATE VALVES SHALL BE RESILIENT SEAT AND SHALL CONFORM TO ANS/AWWA C509.87 WITH HANDWHEEL OR WRENCH NUT, EXTENSION STEMS AND OTHER APPURTENANCES AS REQUIRED. MANUFACTURER'S CERTIFICATION OF THE VALVES COMPLIANCE WITH AWWA SPECIFICATION C509 AND TESTS LISTED THEREIN WILL BE REQUIRED. VALVES SHALL BE CLOW, DRESSER, KENNEDY, AMERICAN.

BUTTERFLY VALVES

BUTTERFLY VALVES SHALL MEET OR EXCEED THE DESIGN STRENGTH TESTING AND PERFORMANCE REQUIREMENTS OF AWWA C504, CLASS 150. VALVES SHALL BE DUCTILE IRON, RESILIENT SEAT, AND BE MANUFACTURED BY KENNEDY, MUELLER, MAH, AMERICAN. BUTTERFLY VALVES TO BE USED FOR SIZES GREATER THAN 12".

AIR RELEASE VALVES

AIR RELEASE VALVES SHALL BE PLACED AT HIGH POINTS OF THE TRANSMISSION MAIN TO PERMIT ESCAPE OF TRAPPED AIR. THE VALVE SIZE, LOCATION AND METHOD OF INSTALLATION SHALL BE INDICATED ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER. AIR RELEASE VALVES SHALL BE CRISP IN PRESSURE AIR VALVE TYPE 'N', APCO OR VALVE & PRIMER CORP.

VALVE BOXES

VALVE BOXES ON BURIED POTABLE WATER MAINS SHALL BE ADJUSTABLE, CAST IRON CONSTRUCTION, WITH MINIMUM INTERIOR DIAMETER OF 5" WITH COVERS CAST WITH THE INSCRIPTION IN LEGIBLE LETTERING ON TOP. VALVE BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE. VALVE BOXES SHALL BE MANUFACTURED BY MUELLER COMPANY, MODEL 1036A, OR APPROVED EQUAL. VALVE BOX PAUS SHALL BE 18"x18"x4" THICK CONCRETE WITH #4 REINFORCING BARS. PAD TO BE SET AT FINISHED GRADE WITH RECESSED DETECTOR WIRE CONDUIT PORT PER DETAL.

WATER SERVICES

UNLESS OTHERWISE NOTED IN THE PLANS, THE UTILITY COMPANY SHALL PROVIDE AND INSTALL WATER METERS. CONTRACTOR SHALL CONSTRUCT WATER SERVICE THROUGH THE CURB STOP AND SET WATER METERS TO FINISHED GRADE AS SHOWN ON THE WATER SYSTEM DETAIL SHEET.

POLYETHYLENE (PE) PRESSURE PIPE FOR WATER SERVICES 1/2" THROUGH 3" SHALL CONFORM TO AWWA C201.88, MIN. 200 PSI, AND SHALL BE PHILLIPS DRISCO CTS 5100 (DR-9) ASTM D-2373, 200 PSI.

ALL SERVICES SHALL INCLUDE THE FOLLOWING: LOCKING CURB STOPS, WYE BRANCHES, UNIONS AS REQUIRED, PE SERVICE PIPE AND CORPORATION STOPS. THE SERVICE SHALL BE COMPLETE THROUGH THE CURB STOP AS SHOWN ON THE DETAIL SHEET, AND SHALL BE OF THE TYPE REQUIRED FOR COMPATIBILITY WITH THE SERVICE LINES SPECIFIED, AND FITTINGS SHALL BE MANUFACTURED BY FORD.

MATERIALS AS REQUIRED BY THE CITY OF CLERMONT

SERVICE SADDLE - FORD F202

CORPORATION STOP - FORD FB1000

CURB STOP - FORD BF1-4448 FOR 1" ONLY

- FORD BF43-777W FOR 1-1/2"

- FORD BF43-777W FOR 2"

METER BOX - SINGLE ONLY (NO DOUBLE METER BOXES ALLOWED), DEKOL WITH IRON READER DOOR WITH TOUCH READ LID. METER BOXES FOR 1-1/2" AND 2" SHALL BE COR 17x20" WITH TOUCH READ LID. METER BOXES IN TRAFFIC AREAS SHALL BE BROOKS 36 SERIES WITH TOUCH READ LID.

COMPOUND Y BRANCH - FORD Y44

JOINT RESTRAINT - MEGA LUG

INSTALL OR PROVIDE CITY WITH 1" x 3/4" BRASS BUSHING AT METER DISCONNECT CONNECTION. THE CONTRACTOR SHALL CUT A "W" IN THE CURB TOP AT EACH WATER SERVICE AND 1/4" AT ALL VALVE LOCATIONS. CUT WS AND VS SHALL BE HIGHLIGHTED WITH BLUE PAINT. SEE WATER SYSTEM DETAILS FOR OTHER SERVICE LOCATION AND MARKING REQUIREMENTS.

PIPE INSTALLATION

PIPE INSTALLATION OF PVC WATER MAIN SHALL BE IN CONFORMANCE WITH ASTM D2774 (LATEST EDITION). INSTALLATION OF DUCTILE IRON PIPE WATER MAIN SHALL BE IN CONFORMANCE WITH AWWA C600.87.

COMPACTED BACKFILL SHALL BE TO 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 UNDER ALL PAVEMENTS WITH 12" MAXIMUM LIFT THICKNESS. OTHER COMPACTED BACKFILL SHALL BE TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 WITH 12" MAXIMUM LIFT THICKNESS. SEE PIPE TRENCHING DETAILS.

MINIMUM COVER OVER ALL PIPE SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE. SEE PLAN AND PROFILE SHEETS FOR REQUIRED DEPTH.

WATER MAINS ARE TO BE INSTALLED SO AS TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF 18" OR A MINIMUM HORIZONTAL CLEARANCE OF 10' FROM ALL OTHER UTILITIES.

IF THE MINIMUM CLEARANCE CAN NOT BE ACHIEVED, THEN DUCTILE IRON WATER MAIN SHALL BE SPECIFIED TO FEET EITHER SIDE OF THE CROSSING. HORIZONTAL AND VERTICAL MINIMUM SEPARATION DISTANCE REQUIREMENTS BETWEEN WATER MAIN AND ALL OTHER UTILITIES SHALL COMPLY WITH 62-555.314 (1), (2), (3) AND (4), FAC.

ALL WATER MAINS SHALL BE INSTALLED WITH RESTRAINED JOINT FITTINGS. NO CONCRETE THREAT BLOCKS TO BE USED.

ALL PLOWS, CAPS, TEES, BENDS, FIRE HYDRANTS, VALVES, ETC. SHALL BE PROVIDED WITH MEGALUG PIPE RESTRAINTS. FOR RESTRAINT CONSTRUCTION SPECIFICATIONS, REFER TO THE WATER SYSTEM DETAILS.

PIPE IDENTIFICATION

BLUE INDICATOR TAPE SHALL BE BURIED IN THE WATER MAIN TRENCH 18" DIRECTLY ABOVE THE WATER MAIN. A CONTINUOUS COPPER DETECTOR WIRE SHALL BE ATTACHED AS SHOWN ON THE WATER DETAIL SHEET.

ALL PIPE AND PIPE FITTINGS SHALL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUB-PARAGRAPH 62-555.320(21)(b)(3), FAC., USING BLUE AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE SHALL BE SOLID-WALL BLUE PIPE. SHALL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN OR SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIKE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE. FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVE GROUND PIPE SHALL BE PAINTED BLUE OR SHALL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.)

DISINFECTION AND TESTING

ALL PIPE SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651.85.

PVC WATER MAINS SHALL BE INSTALLED; PRESSURE AND LEAK TESTED IN ACCORDANCE WITH AWWA C605 AND DUCTILE IRON WATER MAINS IN ACCORDANCE WITH AWWA C600, [62-555.320(21)(b) 1 AND 62-555.330, FAC.]. ALL INSTALLATION, TESTING AND FIELD PROCEDURES MUST BE PROVIDED AND MUST CONFORM TO THE APPLICABLE AWWA STANDARDS.

THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PUMPING EQUIPMENT, WATER, WATER METERS, PRESSURE GAUGES AND OTHER EQUIPMENT, MATERIAL AND FACILITIES REQUIRED FOR ALL HYDROSTATIC AND LEAKAGE TESTING. CONTRACTOR SHALL CONTACT THE ENGINEER, OWNER/OPERATOR AND CITY IN WRITTEN FORM, FORTY EIGHT (48) HOURS IN ADVANCE OF PROPOSED TESTING. THE CONTRACTOR SHALL PERFORM SATISFACTORY PRETESTING PRIOR TO NOTIFICATION.

THE WATER SYSTEM SHALL BE SOAK TESTED 24 HOURS @150 PSI AND TESTED FOR LEAKAGE AT 150 PSI FOR TWO (2) HOURS, WITH ALLOWABLE LEAKAGE IN ACCORDANCE WITH ABOVE STANDARDS.

CONTRACTOR SHALL OBTAIN A COPY OF THE FDP WATER SYSTEM PERMIT AND PULL BACTERIOLOGICAL TEST SAMPLES FROM THE SAMPLE POINTS SPECIFIED IN THAT PERMIT. CONTINUITY TEST SHALL BE PERFORMED ON WIRE BY CONTRACTOR.

CONNECTIONS TO EXISTING WATER MAINS

PRIOR TO THE CONNECTION TO ANY EXISTING MAIN, THE PROPOSED WATER MAIN SHALL BE DISINFECTED, HAVE ENGINEER APPROVED PRESSURE TESTING AND HAVE FDP CLEARANCE. REFER TO FDP PERMIT FOR ANY ADDITIONAL REQUIREMENTS.

AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE VERTICAL AND HORIZONTAL "AS-BUILT" INFORMATION RELATIVE TO ALL CONSTRUCTED UTILITIES AND STRUCTURES. THREE SETS SHALL BE PROVIDED FOR REVIEW. ONCE APPROVED BY THE UTILITY, ONE REPRODUCIBLE SET SHALL BE PROVIDED.

AS-BUILT INFORMATION FOR THE WATER SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

- 1. LOCATION OF ALL VALVES, FITTINGS, HYDRANTS AND SERVICES - HORIZONTAL AND VERTICAL.
2. LOCATION OF THE WATER MAIN TIED WITH COORDINATES FOR THE SUBDIVISION.
3. CERTIFICATION AS TO THE SYSTEM MEETING THE MINIMUM COVER REQUIREMENTS.
4. HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION WHICH DEVIATES FROM THE APPROVED ENGINEERING PLANS.
5. UTILITY LOCATES ON SYSTEMS INSTALLED UNDER THIS CONTRACT SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER UNTIL AS-BUILT DRAWINGS ARE REVIEWED AND APPROVED BY THE UTILITY.

SANITARY SEWER NOTES

MAINS AND MANHOLES

- 1. ALL GRAVITY SANITARY SEWER MAINS SHALL BE CONSTRUCTED OF DR35 PVC PIPE MEETING ASTM 3034, AND SHALL HAVE A MINIMUM COVER OF THREE (3) FEET.
2. WHERE REQUIRED, MAINS SHALL BE CLASS 50 DUCTILE IRON PIPE (DIP) MEETING AWWA C150 AND C151. MAINS SHALL BE 60 MIL EPOXY COATED WITH POLYETHYLENE WRAP CONFORMING TO AWWA C105.
3. MAINS AND LATERALS WITH LESS THAN THREE (3) FEET OF COVER SHALL BE CLASS 50 DIP.
4. ALL PVC PIPE SHALL BEAR THE NSF-DW SEAL.
5. JOINTS SHALL BE INTEGRAL BELL, ELASTOMERIC GASKET JOINTS MANUFACTURED IN ACCORDANCE WITH ASTM D3212 AND ASTM F477. APPLICABLE UNI-BELL PLASTIC PIPE ASSOCIATION STANDARD IS UNI-B-7.
6. ALL SANITARY MANHOLES SHALL BE PRECAST CONCRETE WITH A MINIMUM WALL THICKNESS OF FIVE (5) INCHES FOR INSIDE DIAMETER OF FOUR (4) FEET.
7. MANHOLES SHALL MEET ASTM C-478. RINGS AND COVER SHALL BE TRAFFIC BEARING II-20 CLASS 30 MEETING ASIA A-48.
8. INTERIOR AND EXTERIOR WALLS OF ALL MANHOLES SHALL HAVE A MINIMUM OF TWO (2) 8 MIL COATS OF AN APPROVED PROTECTIVE COAL TAR EPOXY.
9. ALL MAINS NOT LOCATED UNDER PAVEMENT SHALL BE MARKED BY A THREE (3) INCH WIDE METALLIC LOCATOR PIPE 18" ABOVE THE CENTERLINE OF PIPE. DROP MANHOLE IF VERT DIFFERENCE IS GREATER THAN OR EQUAL TO TWO (2) FEET.

LATERALS

- 1. ALL SERVICE LATERALS AND FITTINGS SHALL BE A MINIMUM OF 6" IN DIAMETER.
2. ALL LATERALS SHALL TERMINATE WITH A 4" CLEAN-OUT AT THE PROPERTY LINE, AND AT A DEPTH TO FINAL GRADE OF 3 FEET. SEE DETAILS FOR LOCATION.
3. THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A 2"x2" ABOVE GRADE WOODEN STAKE OR APPROVED MARKER AND CURB MARKED WITH A 'S'.

FORCEMANS

- 1. FORCEMANS SHALL BE DR18 PVC PIPE CONFORMING TO AWWA C-900, OR 50 MIL EPOXY COATED CLASS 50 DIP. PVC PIPE SHALL HAVE INTEGRAL BELL PUSH ON TYPE JOINTS CONFORMING TO ASTM D3139.
2. ALL FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON WITH 250 PSI MINIMUM PRESSURE RATING. SUITABLE COUPLINGS COMPLYING WITH ASTM SPECIFICATIONS ARE REQUIRED FOR JOINING DISSIMILAR MATERIALS.
3. METALLIC MARKING TAPE SHALL BE PLACED OVER THE MAIN AT A MAXIMUM DEPTH OF TWO (2) FEET BELOW THE SURFACE AND TIED INTO ALL VALVE BOXES. TESTING FOR CONTINUITY WILL BE REQUIRED.
4. ALL MAINS SHALL HAVE A MINIMUM COVER OF THREE (3) FEET.
5. ALL CONNECTIONS TO EXISTING SEWER FORCEMANS SHALL BE ACCOMPLISHED WITH A WET TAP AND RESTRAINTS.
6. PROVIDE JOINT RESTRAINT AS SHOWN ON THE WATER DETAIL SHEET.
7. AIR RELEASE AND VACUUM VALVES MANUFACTURER SHALL BE APPROVED BY THE CITY.

TESTING

- 1. SEWAGE COLLECTION SYSTEM
A. ALL GRAVITY SEWER MAINS REQUIRE LOW PRESSURE AIR TESTING IN ACCORDANCE WITH THE LATEST UNI-BELL STANDARD FOR LOW PRESSURE AIR TESTS. AIR TESTS, AS A MINIMUM, SHALL CONFORM TO THE TEST PROCEDURES DESCRIBED IN ASTM SPECIFICATIONS, ASTM F1417 FOR PLASTIC PIPE.
B. ALL SEWER MAINS SHALL BE LAMPED BY A CITY REPRESENTATIVE.
C. ALL MANHOLES SHALL BE INSPECTED FOR INFILTRATION, ALIGNMENT, FLOW CHANNEL CONSTRUCTION AND COAL TAR EPOXY PAINT THROUGHOUT.
D. HYDRO-STATIC TESTS CONSISTING OF A HYDROSTATIC PRESSURE TEST AND HYDROSTATIC LEAKAGE TEST SHALL BE CONDUCTED ON ALL NEWLY INSTALLED SEWER FORCE MAIN SYSTEM PRESSURE PIPES AND APPURTENANCES IN ACCORDANCE WITH AWWA C600 OR M23 AS APPLICABLE. THE PRESSURE SHALL BE 100-PSI FOR TWO (2) HOURS.
E. DEFLECTION TESTS ARE REQUIRED FOR ALL FLEXIBLE PIPE. TESTS SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.

TEMPORARY JUMPER CONNECTION NOTES

A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS.

THE DETAIL PROVIDED IS TO BE USED FOR FILLING ANY NEW WATER MAIN OF ANY SIZE FROM EXISTING ACTIVE WATER MAINS AND FOR FLUSHING OF NEW MAINS UP TO 8" DIAMETER (2.5 FPS MINIMUM VELOCITY) AND FOR TAKING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FILLING, FLUSHING, TESTING AND DISINFECTING OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE HAS BEEN OBTAINED FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND OTHER PERTINENT AGENCIES HAS BEEN RECEIVED BY THE CITY OF CLERMONT. THIS JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM LEVEL OF DISINFECTION AND UNTIL THE FDP CLEARANCE LETTER IS OBTAINED AND THE LINES ARE PLACED INTO SERVICE.

ADEQUATE RESTRAINTS SHALL BE PROVIDED TEMPORARILY, AS REQUIRED.

PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, 1997 EDITION. THE TAPPING SLEEVE AND THE EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR SWABING PER SECTION II OF AWWA C651-92.

FLUSHING OF 10" DIAMETER AND LARGER WATER MAINS MAY BE DONE THROUGH THE TIE-IN VALVE UNDER CONTROLLED CONDITIONS BY THE CITY ONLY. THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:



FIRE HYDRANTS

FIRE HYDRANTS SHALL CONFORM TO THE LATEST EDITION OF AWMA C502.85 AND SHALL BE FURNISHED COMPLETE WITH WRENCH AND OTHER APPURTENANCES...

- 1. BLUE PAVEMENT REFLECTORS SHALL BE PLACED IN THE CENTERLINE OF THE DRIVING LANE CLOSEST TO AND DIRECTLY IN FRONT OF EACH FIRE HYDRANT.
2. A POST-CONSTRUCTION FIRE FLOW TEST SHALL BE CONDUCTED...

CONNECTIONS TO CITY WATER MAINS

ALL DOUBLE DETECTOR CHECK VALVE ASSEMBLIES (DDCV) INSTALLED TO ISOLATE A PRIVATE WATER MAIN SYSTEM SUPPLYING FIRE HYDRANTS FROM THE CITY'S POTABLE WATER SYSTEM SHALL HAVE TAMPER SWITCH DEVICES...

FIRE DEPARTMENT CONNECTIONS

ANY FIRE DEPARTMENT CONNECTION SIEMENS (FDC) FOR FIRE SPRINKLER OR STANDPIPE SYSTEMS MUST BE WITHIN 100 FEET OF FIRE HYDRANT...

DEDICATED FIRE MAINS

THE "POINT OF SERVICE" FOR ANY FIRE MAIN MUST BE CALLED OUT ON THE UTILITY SHEET OF THE SITE PLANS THIS IS THE POINT WHERE A WATER LINE BECOMES DEDICATED TO ONLY FIRE PROTECTION...

FIRE DEPARTMENT ACCESS

FIRE DEPARTMENT ACCESS ROADS SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH THE FLORIDA FIRE PREVENTION CODE AND RULES ESTABLISHED BY THE CITY OF CLERMONT FOR EVERY FACILITY, BUILDING, OR PORTION OF A BUILDING...

FIRE DEPARTMENT ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 20 FEET (6.1 m), AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13 FEET 6 INCHES (4.1m)...

THE REQUIRED WIDTH OF A FIRE DEPARTMENT ACCESS ROAD SHALL NOT BE OBSTRUCTED IN ANY MANNER, INCLUDING BY THE PARKING OF VEHICLES, MINIMUM REQUIRED WIDTHS AND CLEARANCES SHALL BE MAINTAINED AT ALL TIMES...

FIRE LANE MARKINGS ON THE PAVEMENT MUST BE IN DOT YELLOW OR RED AND INCLUDE A CROSS-HATCH AREA THAT EXTENDS A MINIMUM OF THREE FEET OUT FROM THE CURB...

A 20' x 20' CROSS-HATCH AREA MUST BE INDICATED ON THE PAVEMENT IN FRONT OF AND CENTERED ON ANY FIRE DEPARTMENT CONNECTIONS FOR FIRE SPRINKLER OR STANDPIPE SYSTEMS...

THE CURB MUST BE PAINTED DOT YELLOW OR RED, FOR A LENGTH OF 30 FEET CENTERED ON ANY FIRE HYDRANTS OR FIRE DEPARTMENT SIEMENS CONNECTIONS...

BUILDING MARKINGS

ADDRESS NUMERALS SHALL NOT BE LESS THAN THREE INCHES IN HEIGHT FOR RESIDENTIAL BUILDINGS, STRUCTURES, OR PORTIONS THEREOF...

COMMERCIAL BUILDINGS

"KNOX BOX" OR "FALSFAE" LOCK BOXES WILL BE REQUIRED ON ALL COMMERCIAL BUILDINGS (NFPA 1, CHAPTER 3-6 AS ADOPTED IN THE FLORIDA FIRE PREVENTION CODE THROUGH FLORIDA ADMINISTRATIVE CODE CHAPTER 6A-60.003...

LOCK BOXES SHALL CONTAIN KEYS TO THE BUILDING (INCLUDING ENTRANCE DOORS AND ALL ELECTRICAL AND MECHANICAL ROOMS) AND ANY SYSTEMS IN THE BUILDING (SUCH AS FIRE ALARM PANELS, FIRE ALARM PULL STATIONS, SMOKE DETECTOR RESET, SPRINKLER SYSTEMS, ELEVATORS, ETC.)...

APPLICATIONS FOR THE PURCHASE OF "KNOX BOX" OR "FALSFAE" EQUIPMENT ARE AVAILABLE FROM THE FIRE DEPARTMENT. EACH BOX TO BE INSTALLED WITHIN THE CITY OF CLERMONT WILL BE KEYPED TO ACCOMMODATE CLERMONT FIRE DEPARTMENT'S LOCK BOX KEY...

BUILDING MATERIALS

NFPA 241 (STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS) AS ADOPTED IN THE FLORIDA ADMINISTRATIVE CODE (RULES OF THE STATE FIRE MARSHAL) AND THE FLORIDA FIRE PREVENTION CODE...

EMERGENCY VEHICLE ACCESS CONTROL (EVAC) SYSTEM

THE CITY OF CLERMONT LAND DEVELOPMENT REGULATIONS, SECTION 110-192 (1), REQUIRES THAT ALL GATED COMMUNITIES IN THE CITY OF CLERMONT INSTALL THE "EVAC" (EMERGENCY VEHICLE ACCESS CONTROL) REMOTE GATE OPENING EQUIPMENT ON ALL ENTRY GATES...

NEEDED FIRE FLOW CALCULATIONS

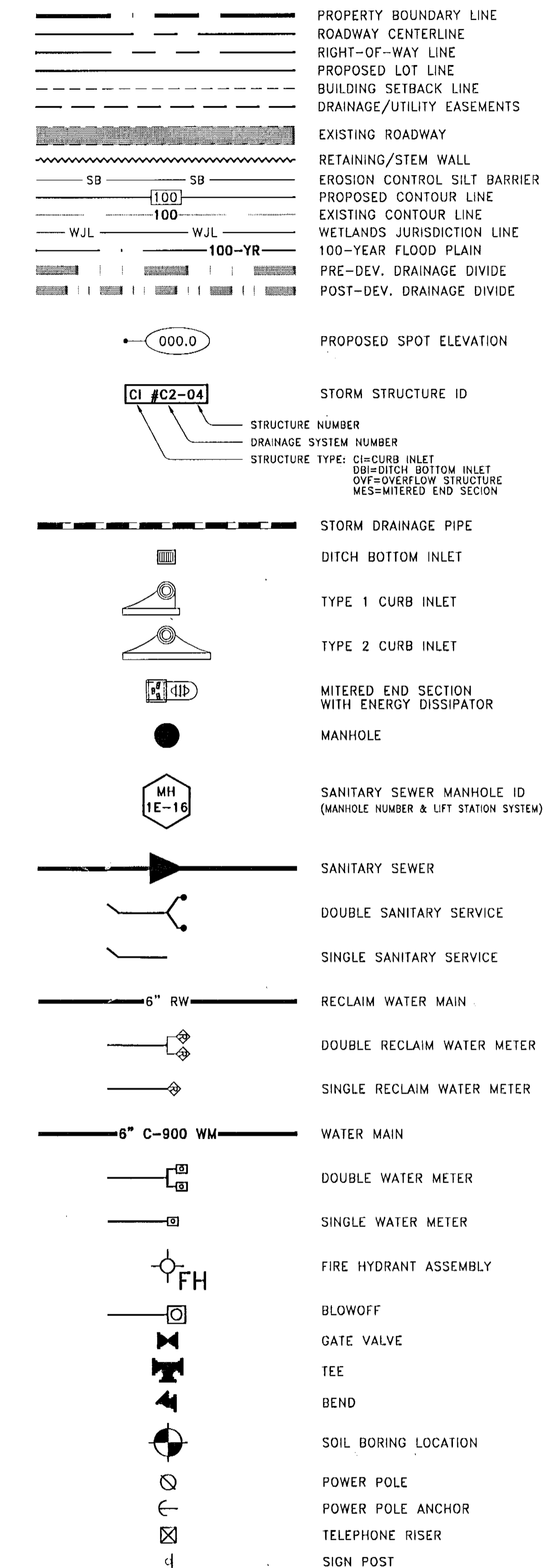
NEEDED FIRE FLOW CALCULATIONS FOR ALL BUILDINGS ON THE SITE BASED ON THE ISO FIRE SUPPRESSION RATING SCHEDULE GUIDE FOR NEEDED FIRE FLOW CALCULATIONS SHALL BE SHOWN ON THE SITE PLANS...

A NEEDED FIRE FLOW CALCULATION WORKSHEET IS AVAILABLE IN MS EXCEL FORMAT AT THE CITY OF CLERMONT WEB SITE: www.cityofclermont.com...

FINAL APPROVAL OF SITE PLANS

AFTER REVIEW OF THE SITE PLANS BY THE CITY OF CLERMONT SITE REVIEW COMMITTEE, THE SITE PLANS, AS APPROVED BY THE CITY, SHALL BE SUBMITTED TO LAKE COUNTY BUILDING DEPARTMENT FOR A FIRE AND LIFE SAFETY REVIEW...

PROJECT LEGEND



ABBREVIATIONS

Table with 2 columns: Abbreviation and Description. Includes AC (ACRES), BW (BOTTOM OF WALL ELEVATION), C (CENTERLINE), DIP (DUCTILE IRON PIPE), (E) (EAST), (S) (SOUTH), EXIST (EXISTING), FF (FINISH FLOOR ELEVATION), GV (GATE VALVE), LF (LINEAR FEET), MH (MANHOLE), (N) (NORTH), N.T.S. (NOT-TO-SCALE), PAD (PAD ELEVATION), PP (POWER POLE), R (RADIUS), R/W (RIGHT-OF-WAY), (S) (SOUTH), SF (SQUARE FEET), TC (TOP OF CURB ELEVATION), TW (TOP OF WALL ELEVATION), TP (TYPICAL), (W) (WEST), WM (WATER MAIN), WRA (WATER RETENTION AREA).

GENERAL NOTES LAST REVISED 08-01-06

8272-13 RECEIVED APR 18 2007 PDS ALAMONTE SVC. CTR.

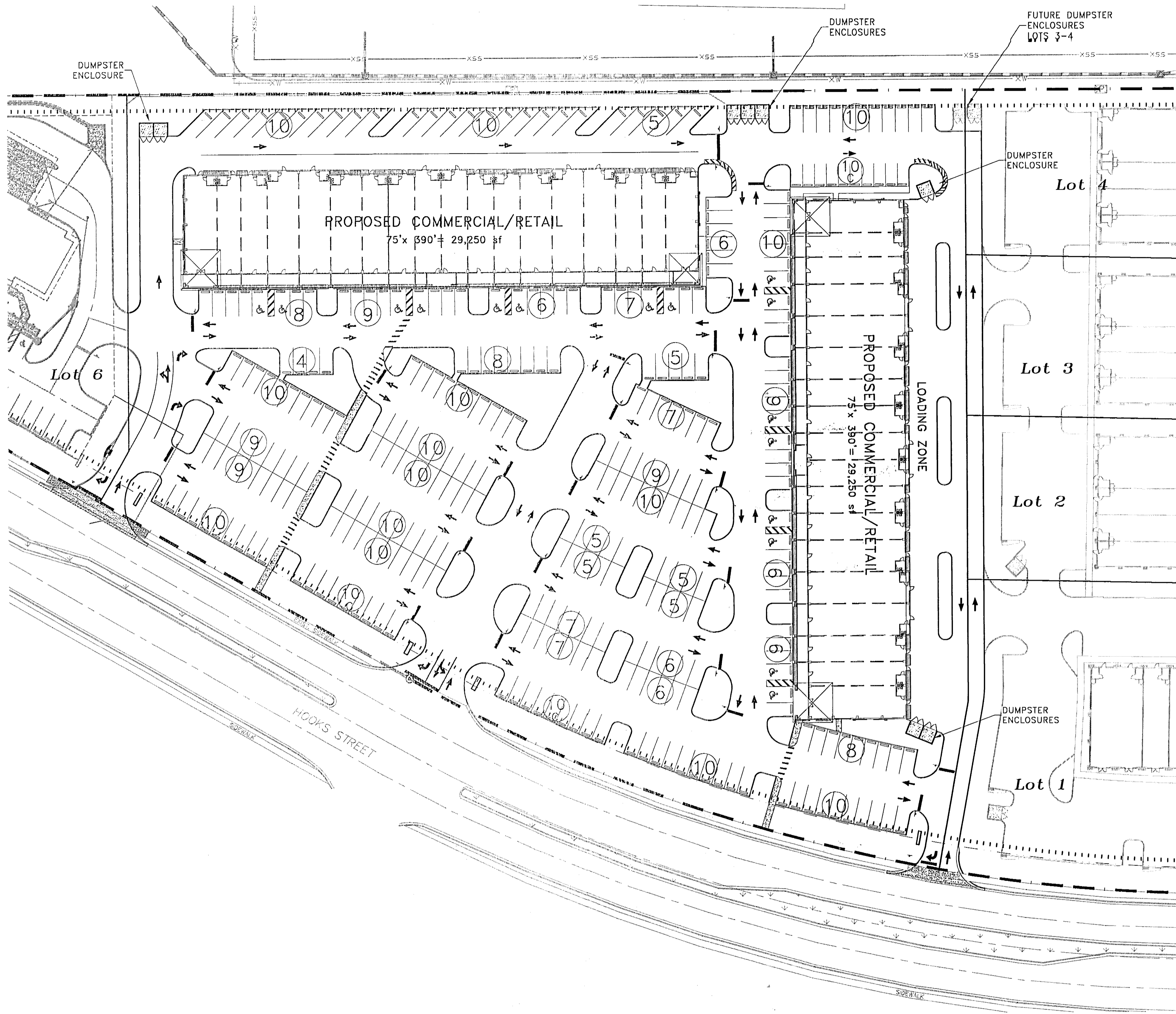
RICK MCCOY STATE OF FLORIDA PROFESSIONAL ENGINEER NO. 39725

GENERAL NOTES & INDEX Lot 5 - Hancock Towne Centre ENGINEERS & LAND PLANNERS 713 WEST MONTROSE ST. CLERMONT, FLORIDA 34711

Job No. 06-012 DATE NOV 2006 DES. BY: RMC/JES DWN. BY: JES CHK'D BY: RMC APP'D BY: RMC SHEET 3 OF 14



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**PROJECT CHARACTERISTICS**

TOTAL PROPERTY AREA .....6.98± Acres  
 ZONING.....CUP

PROPOSED SERVICES:  
 DRINKING WATER.....CITY OF CLERMONT  
 SEWAGE DISPOSAL.....CITY OF CLERMONT  
 ELECTRIC.....PROGRESS ENERGY  
 NATURAL GAS.....LAKE APOPKA NATURAL GAS DISTRICT  
 TELEPHONE.....EMBARQ  
 GARBAGE DISPOSAL.....PRIVATE CONTRACTOR  
 FIRE PROTECTION.....CITY OF CLERMONT  
 POLICE PROTECTION.....CITY OF CLERMONT

MINIMUM BUILDING SETBACK REQUIREMENTS:  
 FROM RIGHTS-OF-WAY.....25'  
 FROM REAR PROPERTY LINES.....12'  
 FROM SIDE PROPERTY LINES.....12'

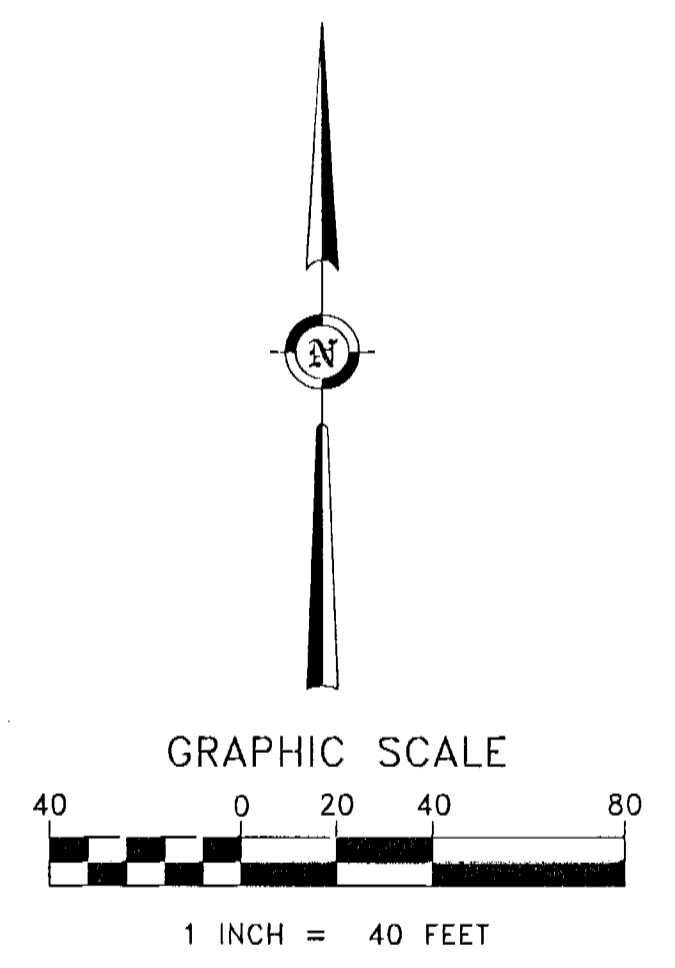
PARKING SPACES REQUIRED:  
 COMMERCIAL/RETAIL= 52,000 sf  
 (1) Parking Space per 200 sf  
 [52,000/200] = (267) Spaces Req'd.

RESTAURANT= 5,100 sf  
 (1) Parking Space per 50 sf of Patron area  
 Assume 2/3 Patron Area [3,400/50] = (68) Spaces Req'd.  
 (3) Parking Spaces for Staff  
 Assume 4 employees  
 1 space/4 employees (3) Total Spaces Required

REQUIRED HANDICAPPED SPACES  
 (1) Space per 25 Regular Spaces = (14) Spaces Req'd

PARKING SPACES PROVIDED: (292) REGULAR (10'x20')  
 (30) COMPACT (9'x20')  
 (16) HANDICAPPED (12'x20')  
 (338) Total Spaces Provided

- NOTES:  
 1) STORMWATER ATTENUATION HAS BEEN ALLOWED FOR AND PREVIOUSLY PERMITTED AT AN OFF SITE WRA, LOCATED SOUTHWEST OF THE PROPOSED SITE. SJRWMD Permit No. 4-069-68272-3, High School AAA, Condition no. 25.  
 2) A PRE-CONSTRUCTION MEETING WITH THE CITY OF CLERMONT SHALL BE REQUIRED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.  
 3) A SLAB SURVEY SHALL BE SUBMITTED TO THE CITY OF CLERMONT AFTER THE FORM BOARDS HAVE BEEN INSTALLED AND BEFORE THE CONCRETE HAS BEEN POURED TO INSURE THE SETBACKS AND BUILDING LOCATIONS CONFORM TO THE "LAND DEVELOPMENT REGULATIONS".



PROPOSED LAND USE SUMMARY			
DESCRIPTION:	AREA S.F.	AREA AC.	PERCENT
BUILDING AREA	58,500 sf	1.343 ac	19.25%
SIDEWALK AREA	3,480 sf	0.080 ac	1.15%
PARKING AREA	128,949sf	2.960 ac	45.42%
TOTAL IMPERVIOUS AREA	190,929sf	4.383 ac	65.82%
GREEN SPACE	112,983sf	2.594 ac	37.18%
TOTAL LOT AREA	303,912 sf	6.977 ac	100%

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APR 18 2007

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RICK MCCOY  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 NO. 38725

*[Signature]*

**MASTER SITE PLAN**

**Lot 5 - Hancock Towne Centre**  
 Sec. 28, Twp. 28S, Rge 28E, City of Clermont, Lake County, FL  
 OWNER/DEVELOPER  
 Woody & Wallace Land Development, LLC  
 11740 Osprey Pointe Boulevard, Clermont, FL 34711

**McCOY & ASSOCIATES**  
 ENGINEERS & LAND PLANNERS  
 713 WEST MONTROSE ST., CLERMONT, FLORIDA 34711  
 (352) 384-5756 FAX (352) 384-5758  
 CA#: 8374

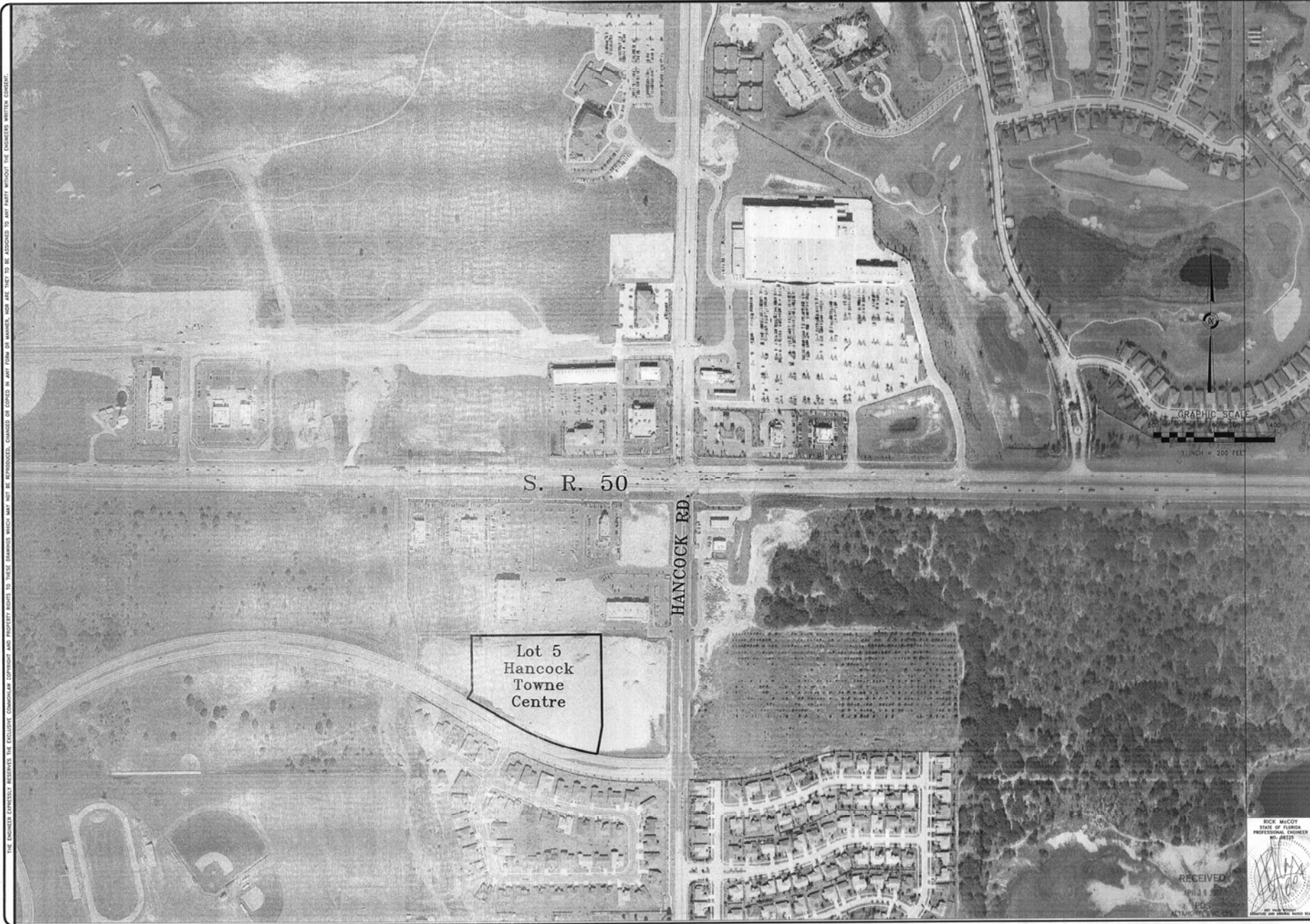
**Florida, LLC**  
 Geodetic, LLC  
 737 West Montrose Street  
 Clermont, FL 34711  
 (352) 394-3000  
 Fax (352) 394-1305

NO. DATE REV. BY CH. COMMENTS

NO.	DATE	REV.	BY	CH.	COMMENTS
1	03/12/07				

REVISIONS

JOB NO. 06-012  
 DATE NOV. 2006  
 DES. BY: RMc/ES  
 DWN. BY: ES  
 CHK'D BY: RMc  
 APP'D BY: RMc



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EDS  
METROPLANNING INC. 058



**AERIAL OVERLAY**  
**Lot 5 - Hancock Towne Centre**  
Sec. 28, Twp. 25, Rng. 25E, Clermont, Florida  
Woody & Wallace Land Development, LLC  
11740 Osprey Pointe Boulevard, Clermont, FL 34711

**Mc & A**  
**McCOY & ASSOCIATES**  
ENGINEERS & LAND PLANNERS  
735 WEST MONTROSE ST. CLERMONT, FLORIDA 34711  
CLERMONT, FLORIDA 34711  
TEL (852) 344-9756 FAX (852) 344-9758  
CIVIL 874

**Florida Geodetic, LLC**  
737 West Montrose Street  
Clermont, FL 34711  
(852) 344-9756  
Fax (852) 384-1305

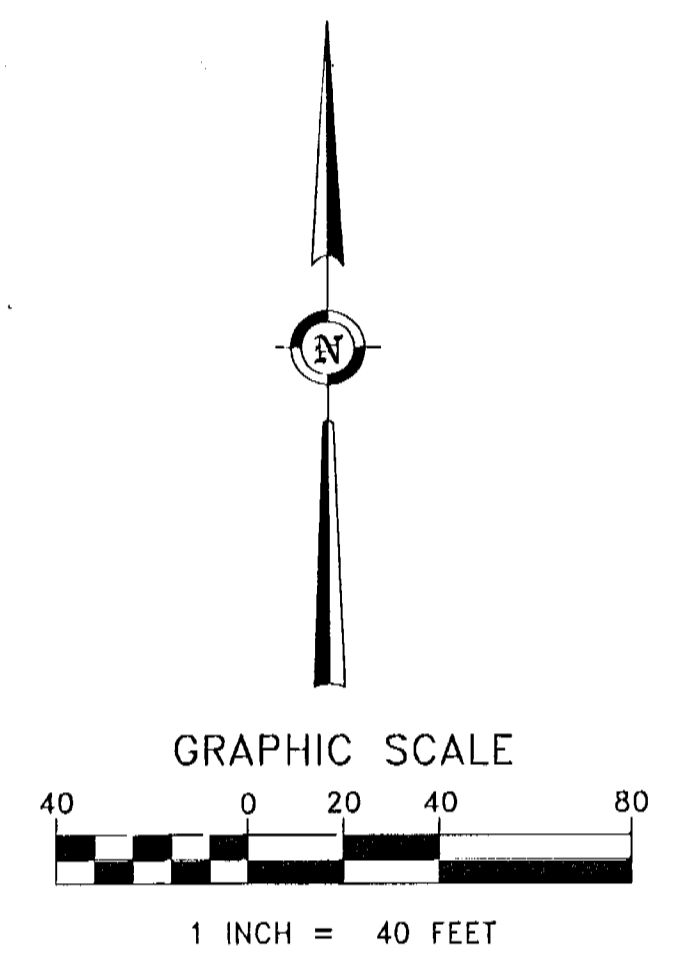
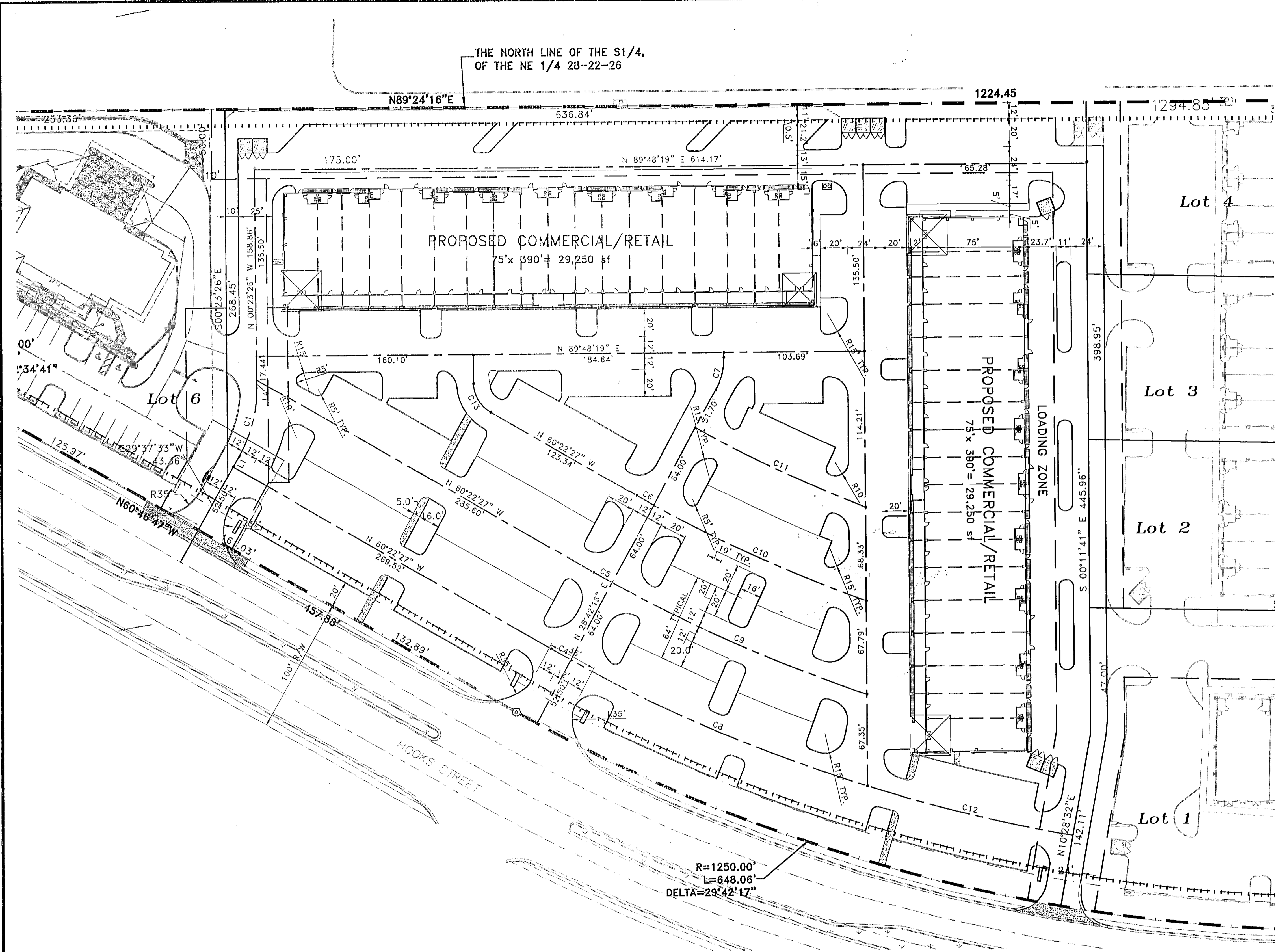
NO.	DATE	DESCRIPTION

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SHEET  
5 of 14



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NOTE:  
1. DIMENSIONS ARE TO FACE OF CURB.

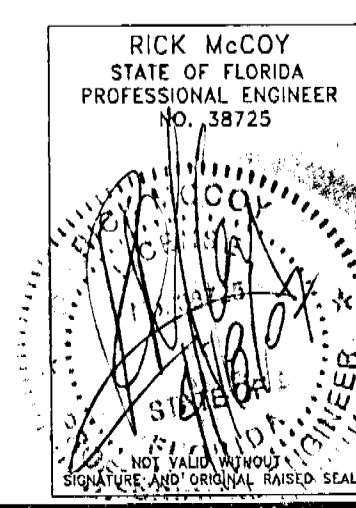
**CURVE DATA TABLE**

No.	RADIUS	ARC LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C1	100.00	52.49	30°04'17"	N 14°38'42" E	51.88
C4	1197.50	16.51	00°47'24"	N 60°46'01" W	16.51
C5	1133.50	15.48	00°46'58"	N 60°45'47" W	15.48
C6	1069.50	14.45	00°46'28"	N 60°45'31" W	14.45
C7	50.00	25.22	28°53'56"	N 14°15'17" E	24.95
C8	1197.50	237.86	11°22'55"	S 66°51'11" E	237.46
C9	1133.50	204.87	10°21'25"	S 66°19'58" E	204.59
C10	1069.50	171.74	09°12'07"	S 65°44'49" E	171.55
C11	1005.50	138.43	07°53'21"	S 65°04'52" E	138.32
C12	1197.50	155.80	07°27'20"	S 76°16'18" E	155.69
C13	25.00	26.26	60°10'46"	N 30°17'04" W	25.07

**LINE TABLE**

No.	DIRECTION	DISTANCE
L1	N 29°37'33" E	9.24'
L2	N 00°11'41" W	22.97'
L3	N 00°11'41" W	5.15'
L4	N 00°23'26" W	5.92'

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**GEOMETRY PLAN**

**Lot 5 - Hancock Towne Centre**  
Sec. 28; Twp. 22S; Rge. 26E, City of Clermont, Lake County, FL  
OWNER/DEVELOPER  
Woody & Wallace Land Development, LLC  
11740 Osprey Pointe Boulevard, Clermont, FL, 34711

**McCOY & ASSOCIATES**  
ENGINEERS & LAND PLANNERS  
713 WEST MONTROSE ST., CLERMONT, FLORIDA 34711  
(352) 394-5756 FAX (352) 394-5758  
CA#: 8374

**Florida Geodetic, LLC**  
787 West Montrose Street  
Clermont, FL 34711  
(352) 394-3000  
Fax (352) 394-1305

NO.	DATE	DESCRIPTION
1	03/12/07	Rev per City comments

REVISIONS

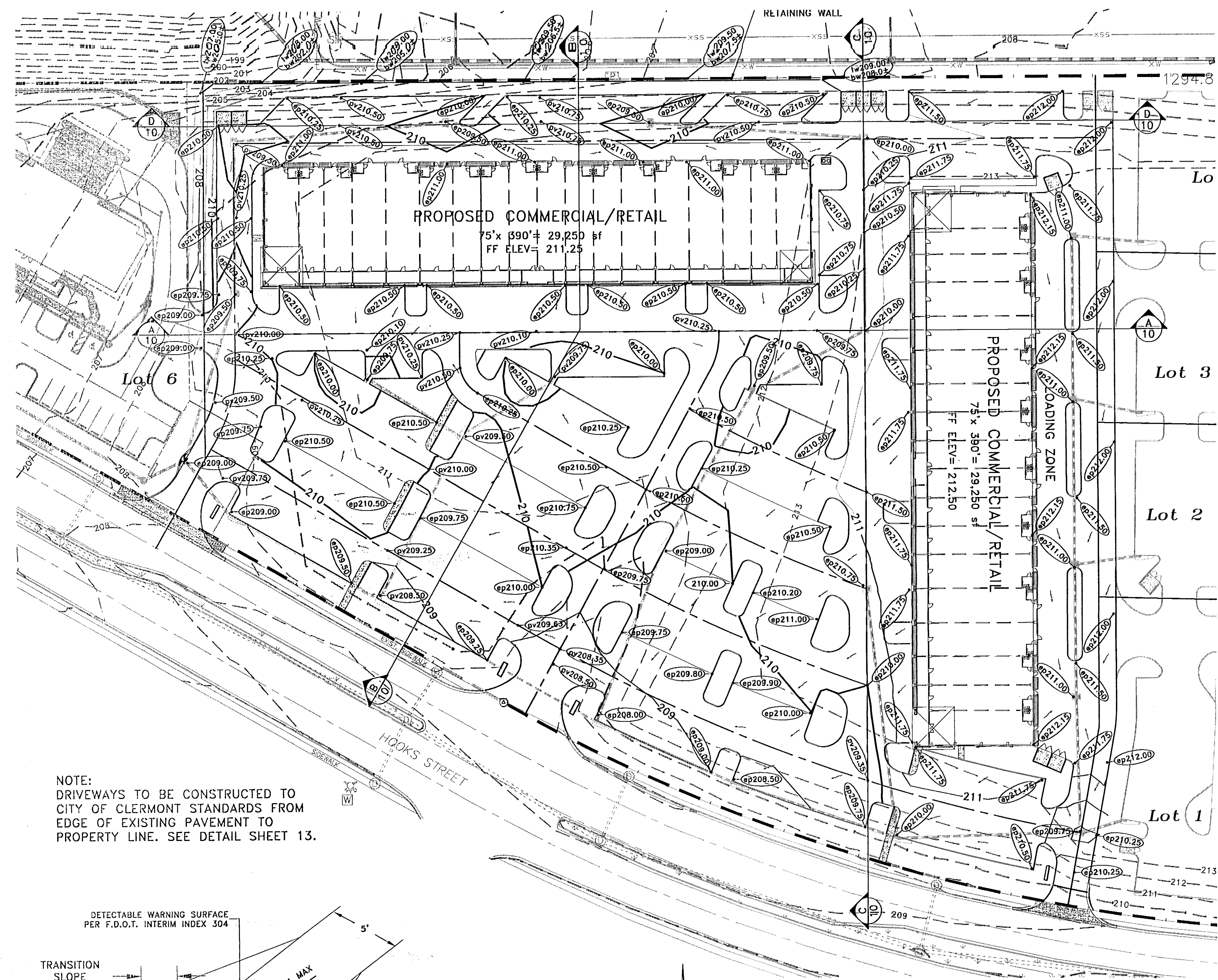
JOB NO.	06-012
DATE	NOV. 2006
DES. BY:	RMc/ES
DWN. BY:	ES
CHECK'D BY:	RMc
APP'D BY:	RMc
SHEET	6 OF 15



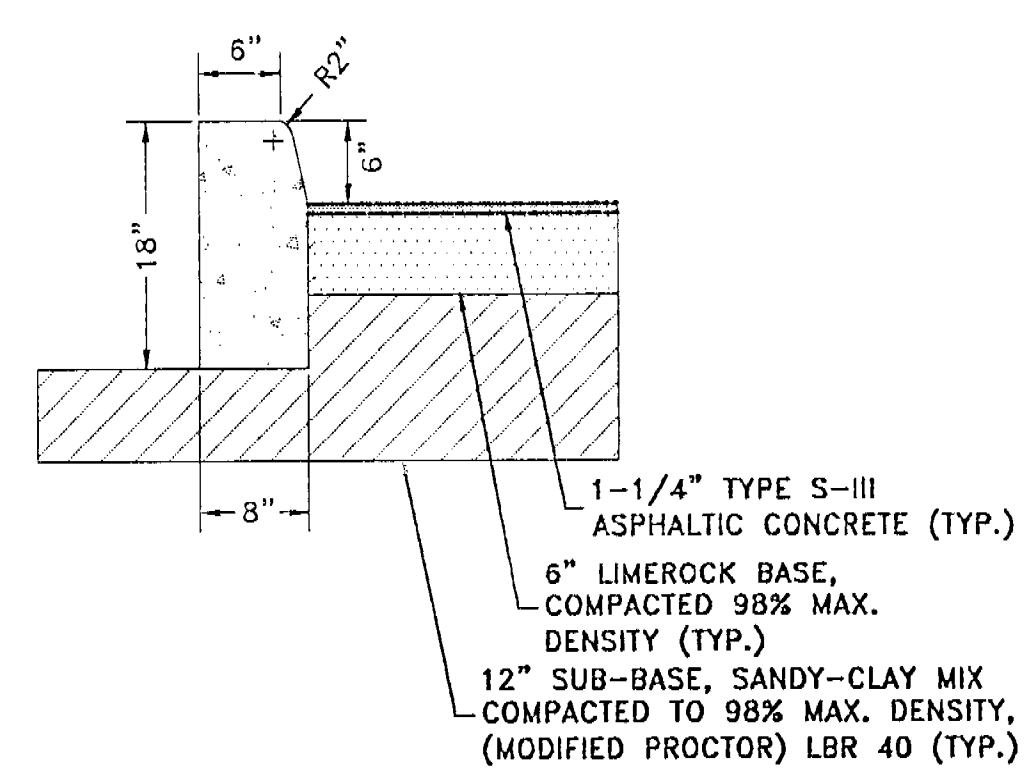




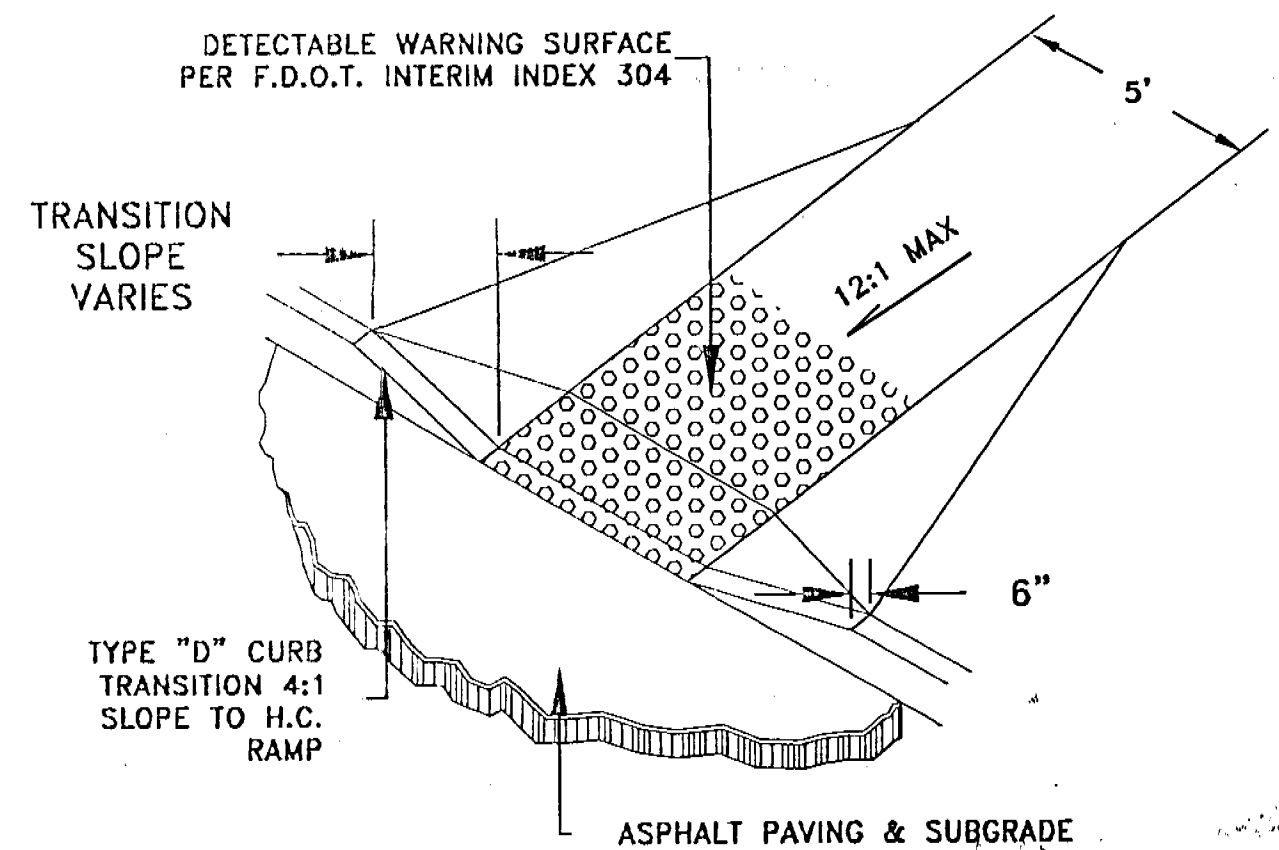
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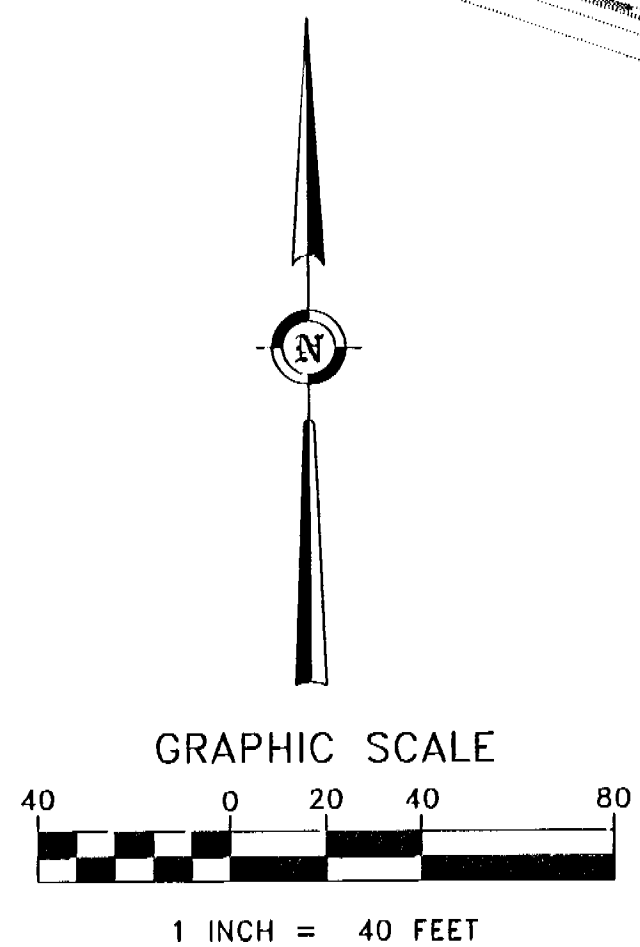
NOTE:  
DRIVEWAYS TO BE CONSTRUCTED TO CITY OF CLERMONT STANDARDS FROM EDGE OF EXISTING PAVEMENT TO PROPERTY LINE. SEE DETAIL SHEET 13.



**HEADER CURB/ASPHALT PAVING DETAIL**  
N.T.S.

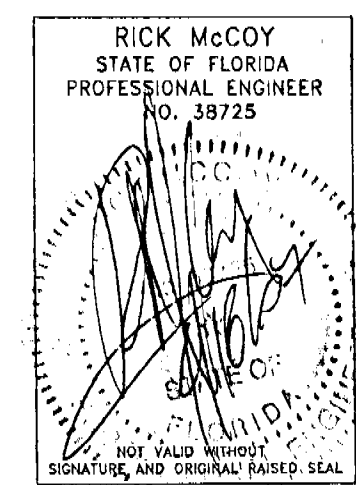


**FLARED SIDE PEDESTRIAN RAMP**  
N.T.S.



Stormwater discharge permitted by Lake County School Board. SJRWMD Permit No. 4-069-68272-3, High School AAA, Condition no. 25.

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<b>Florida Geodetic, LLC</b> 737 West Montrose Street Clermont, FL 34711 (352) 394-3000 Fax (352) 394-1305	
<b>MCCOY &amp; ASSOCIATES</b> ENGINEERS & LAND PLANNERS 713 WEST MONTROSE ST. CLERMONT, FLORIDA 34711 (352) 394-5756 FAX (352) 394-5758 CAP. 8874	
<b>Lot 5 - Hancock Towne Centre</b> Sec. 28; Twp. 28S; Rge. 23E, City of Clermont, Lake County, FL <b>OWNER/DEVELOPER</b> Woody & Wallace Land Development, LLC 11740 Osprey Pointe Boulevard, Clermont, FL 34711	
JOB NO. 06-012	DATE NOV. 2006
DES. BY: RMC/ES DWN. BY: ES CHK'D BY: RMC APP'D BY: RMC	SHEET 8 OF 15

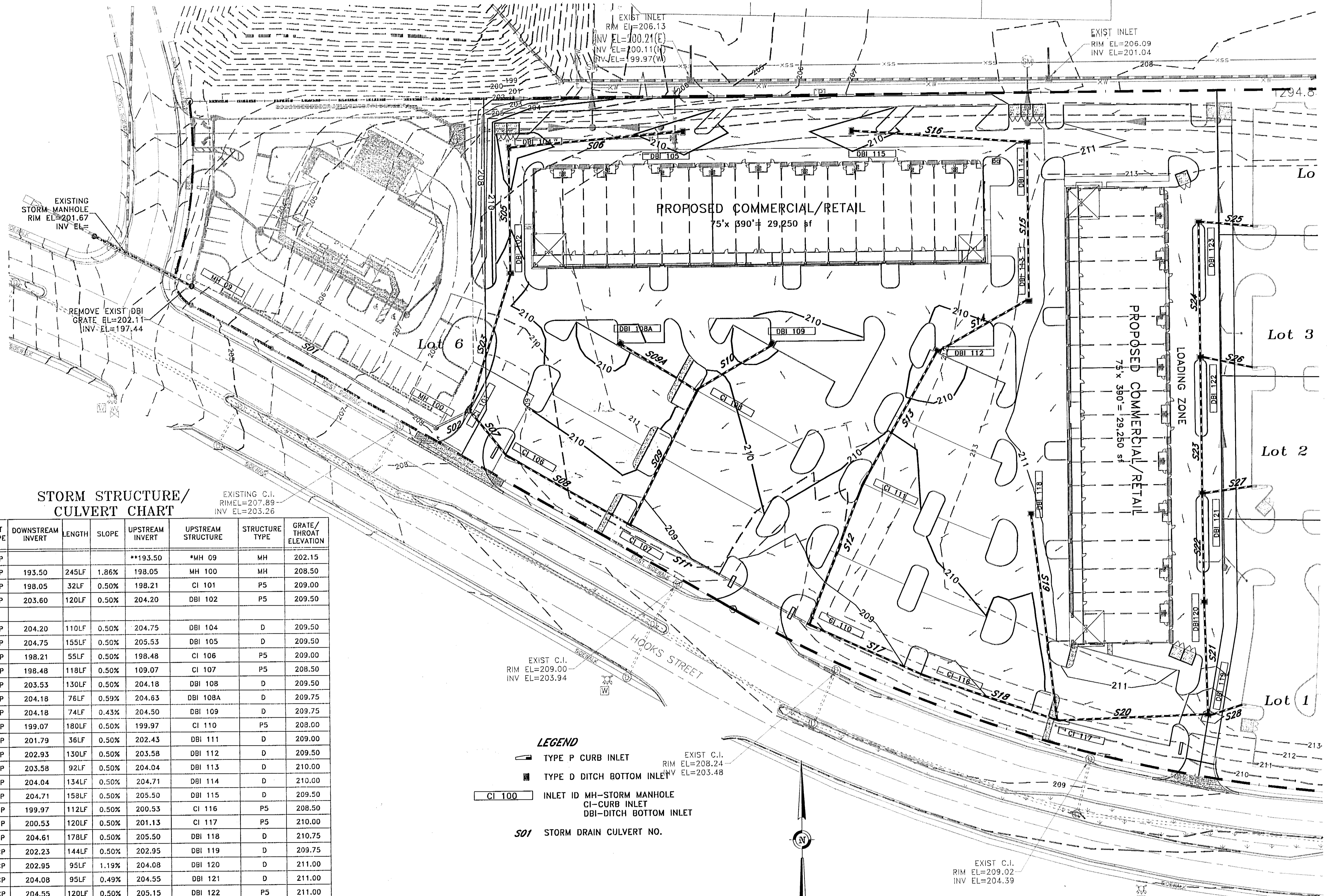
**GRADING PLAN**

NO.	DATE	REV.	DESCRIPTION
1	03/12/07	Rev.	per City comments

REVISIONS



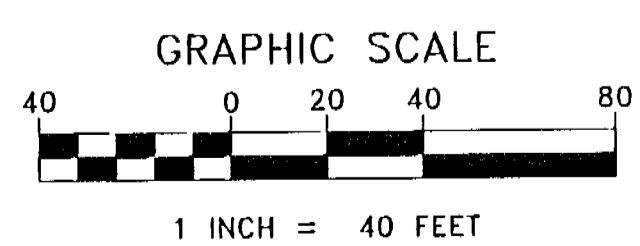
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**STORM STRUCTURE/  
CULVERT CHART**

LINE NO.	DOWNSTREAM STRUCTURE	CULVERT SIZE/TYPE	DOWNSTREAM INVERT	LENGTH	SLOPE	UPSTREAM INVERT	UPSTREAM STRUCTURE	STRUCTURE TYPE	GRATE/THROAT ELEVATION
N/A	FUTURE	36"/RCP				**193.50	*MH 09	MH	202.15
S01	*MH 09	36"/RCP	193.50	245LF	1.86%	198.05	MH 100	MH	208.50
S02	MH 100	36"/RCP	198.05	32LF	0.50%	198.21	CI 101	P5	209.00
S03	CI 101	18"/RCP	203.60	120LF	0.50%	204.20	DBI 102	P5	209.50
S04	N/A								
S05	DBI 102	18"/RCP	204.20	110LF	0.50%	204.75	DBI 104	D	209.50
S06	DBI 104	18"/RCP	204.75	155LF	0.50%	205.53	DBI 105	D	209.50
S07	CI 101	36"/RCP	198.21	55LF	0.50%	198.48	CI 106	P5	209.00
S08	CI 106	36"/RCP	198.48	118LF	0.50%	109.07	CI 107	P5	208.50
S09	CI 107	18"/RCP	203.53	130LF	0.50%	204.18	DBI 108	D	209.50
S09A	CI 108	18"/RCP	204.18	76LF	0.59%	204.63	DBI 108A	D	209.75
S10	DBI 108	18"/RCP	204.18	74LF	0.43%	204.50	DBI 109	D	209.75
S11	CI 107	36"/RCP	199.07	180LF	0.50%	199.97	CI 110	P5	208.00
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S18	CI 116	36"/RCP	200.53	120LF	0.50%	201.13	CI 117	P5	210.00
S19	CI 117	18"/RCP	204.61	178LF	0.50%	205.50	DBI 118	D	210.75
S20	CI 117	24"/RCP	202.23	144LF	0.50%	202.95	DBI 119	D	209.75
S21	DBI 119	24"/RCP	202.95	95LF	1.19%	204.08	DBI 120	D	211.00
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S23	DBI 121	24"/RCP	204.55	120LF	0.50%	205.15	DBI 122	P5	211.00
S24	DBI 122	24"/RCP	205.15	120LF	0.50%	205.75	DBI 123	D	211.00
S25	DBI 123	18"/RCP	206.50	48LF	0.50%	207.25	STUB-OUT	PLUG	N/A
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S27	DBI 121	18"/RCP	206.50	38LF	1.97%	207.25	STUB-OUT	PLUG	N/A
S28	DBI 119	24"/RCP	202.95	30LF	0.47%	203.09	STUB-OUT	PLUG	N/A

- LEGEND**
- TYPE P CURB INLET
  - TYPE D DITCH BOTTOM INLET
  - INLET ID MH-STORM MANHOLE  
CI-CURB INLET  
DBI-DITCH BOTTOM INLET
  - S01** STORM DRAIN CULVERT NO.



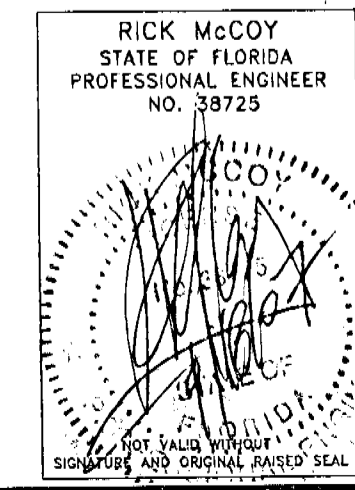
\* PROVIDE OPEN BOTTOM STRUCTURE. BOTTOM OF STRUCTURE TO BE MINIMUM 18" BELOW INVERT.  
 \*\* CONNECT TO EXISTING 24" CULVERT TO NW INVERT EL=197.44± (CONTRACTOR TO VERIFY GRADE). PROVIDE 36" HOLE AT INVERT SHOWN TO NW FOR FUTURE CONNECTION, PLUG HOLE.

NO.	DATE	DESCRIPTION
1	05/12/07	Rev per City comments

**Florida Geodetic, LLC**  
 737 West Montrose Street  
 Clermont, FL 34711  
 (352) 394-3000  
 Fax (352) 394-1305

**McCoy & Associates**  
 ENGINEERS & LAND PLANNERS  
 713 WEST MONTROSE ST., CLERMONT, FLORIDA 34711  
 (352) 394-5756 FAX (352) 394-5756  
 CA# 5874

**Lot 5 - Hancock Towne Centre**  
 Sec. 28; Twp. 22S; Rge. 28E, City of Clermont, Lake County, FL  
 OWNER/DEVELOPER  
 Woody & Wallace Land Development, LLC  
 11740 Osprey Pointe Boulevard, Clermont, FL 34711

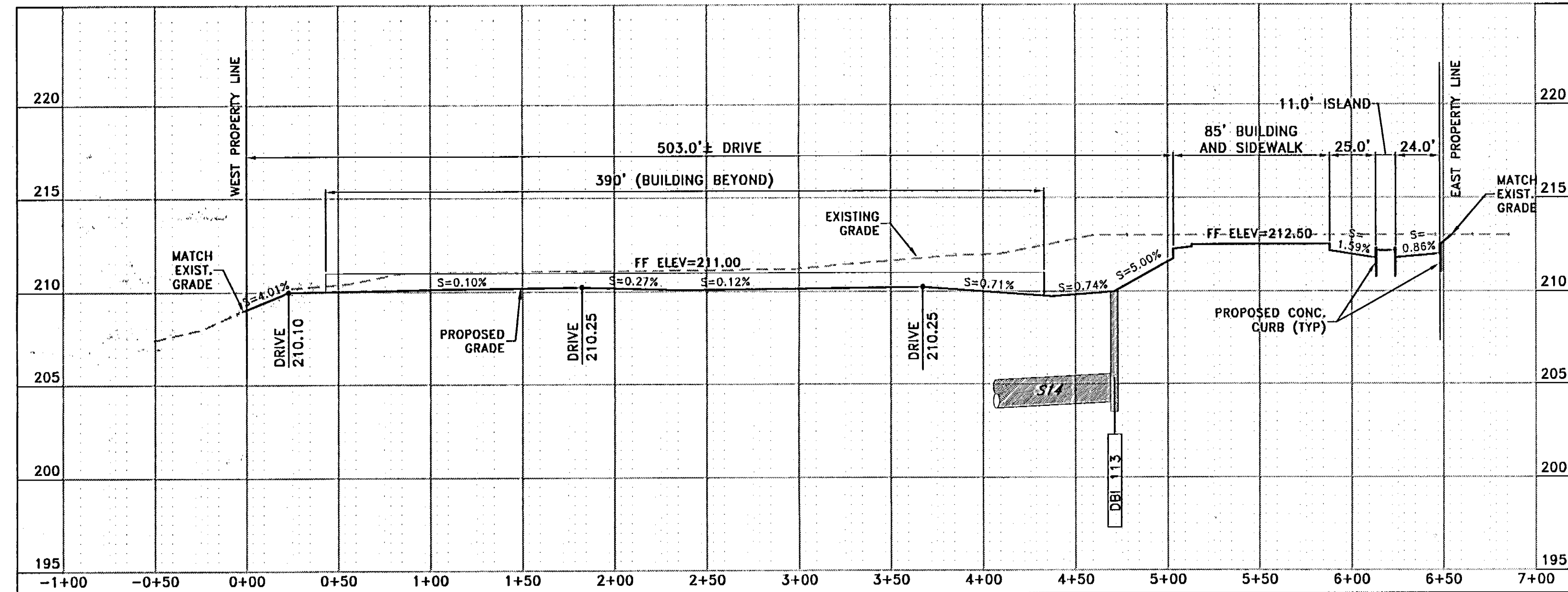


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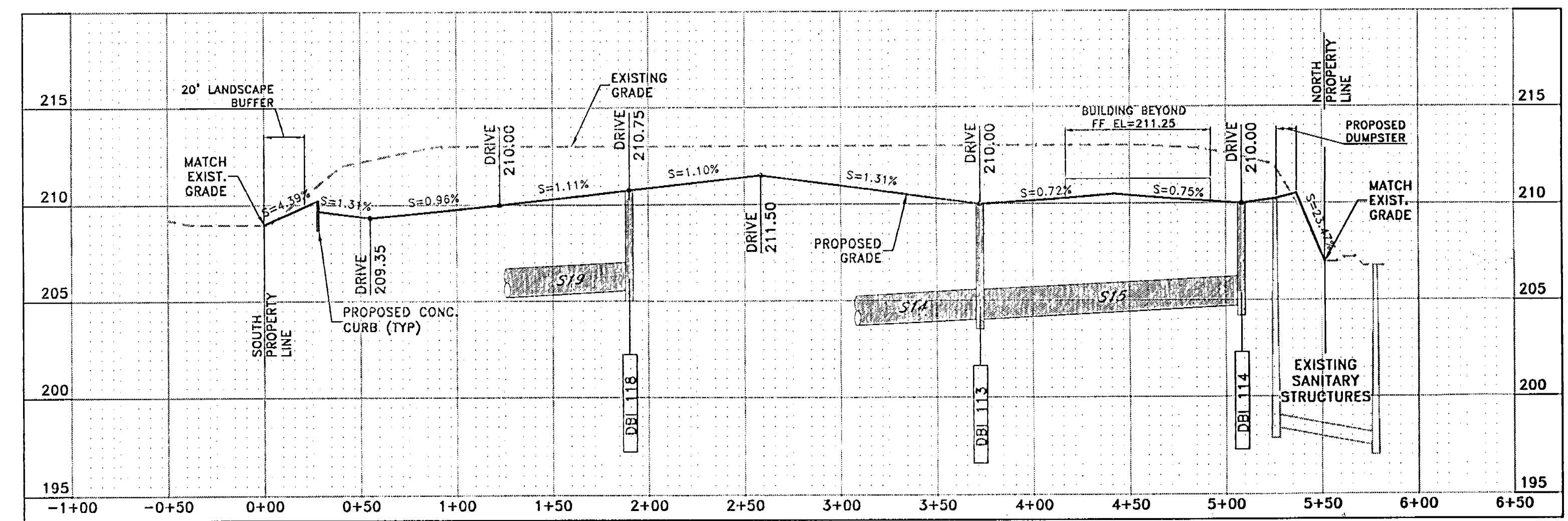
JOB NO.	06-012
DATE	MAY 2006
DES. BY:	RMC/ES
DWN. BY:	ES
CHK'D BY:	RMC
APP'D BY:	RMC
SHEET	9 OF 15



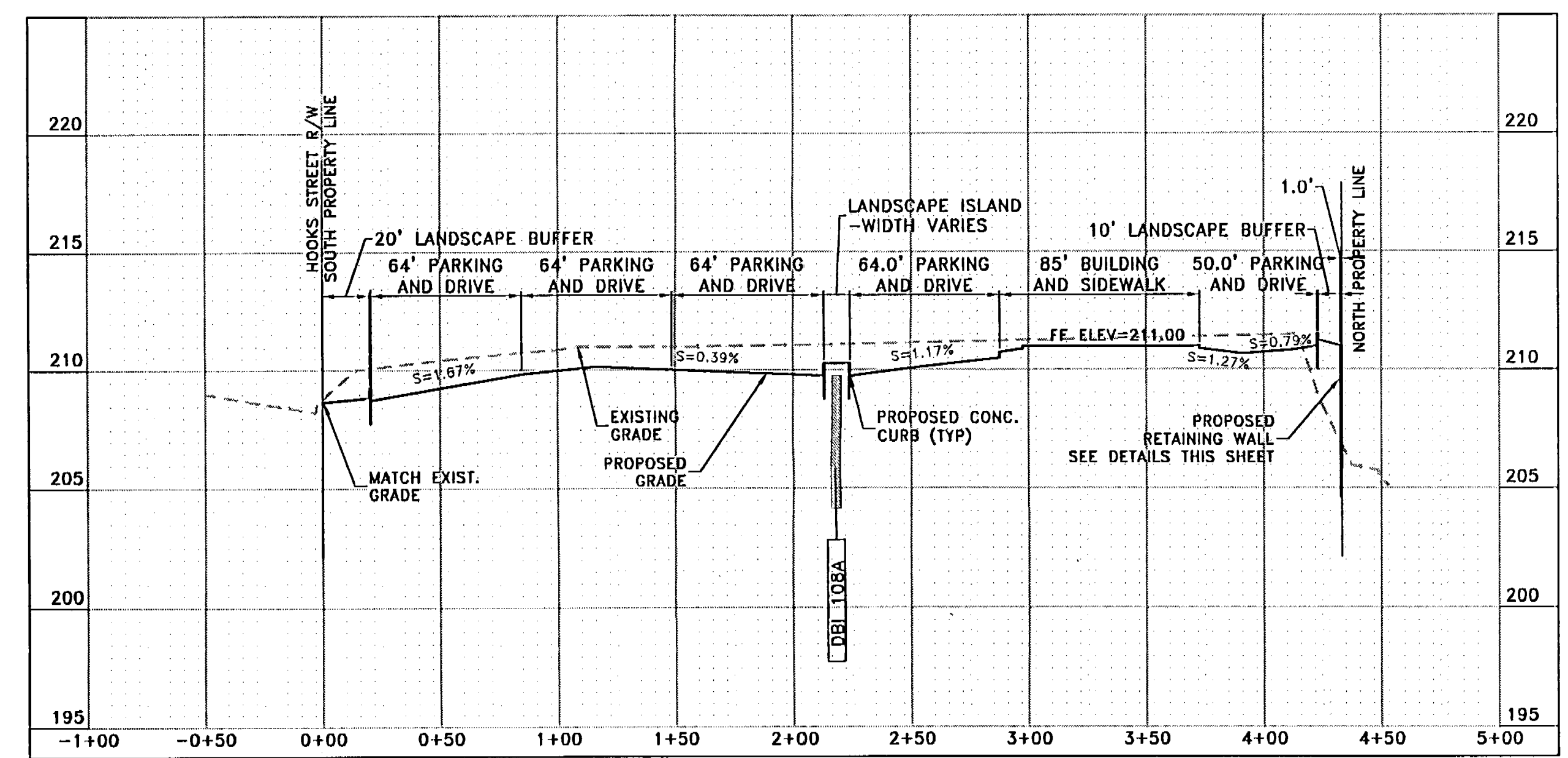
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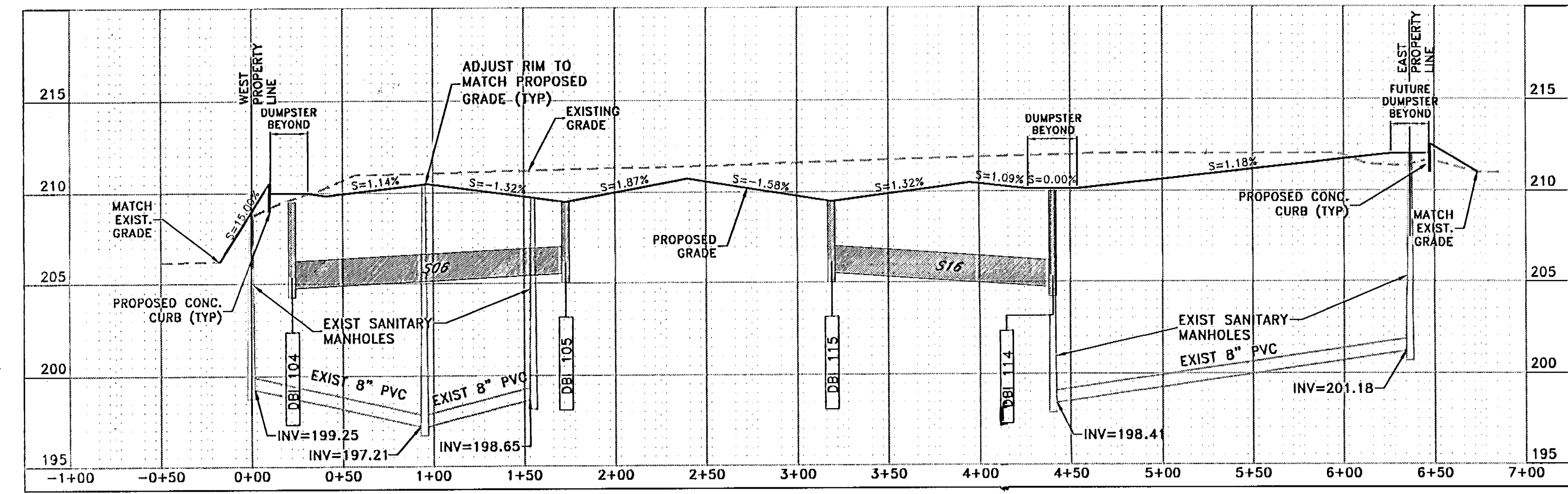
SECTION A-A  
Scale H:1"=50'  
V:1"= 5'



SECTION C-C  
Scale H:1"=50'  
V:1"= 5'



SECTION B-B  
Scale H:1"=50'  
V:1"= 5'



SECTION D-D  
Scale H:1"=50'  
V:1"= 5'

NO.	DATE	DESCRIPTION
1	03/12/07	Rev per City comments

Florida  
Geotetic, LLC  
737 West Montrose Street  
Clermont, FL 34711  
(352) 394-3000  
Fax (352) 394-1305

Mc  
&A  
ENGINEERS & LAND PLANNERS  
73 WEST MONTROSE ST. CLERMONT, FLORIDA 34711  
(352) 394-5756  
CAF# 8374

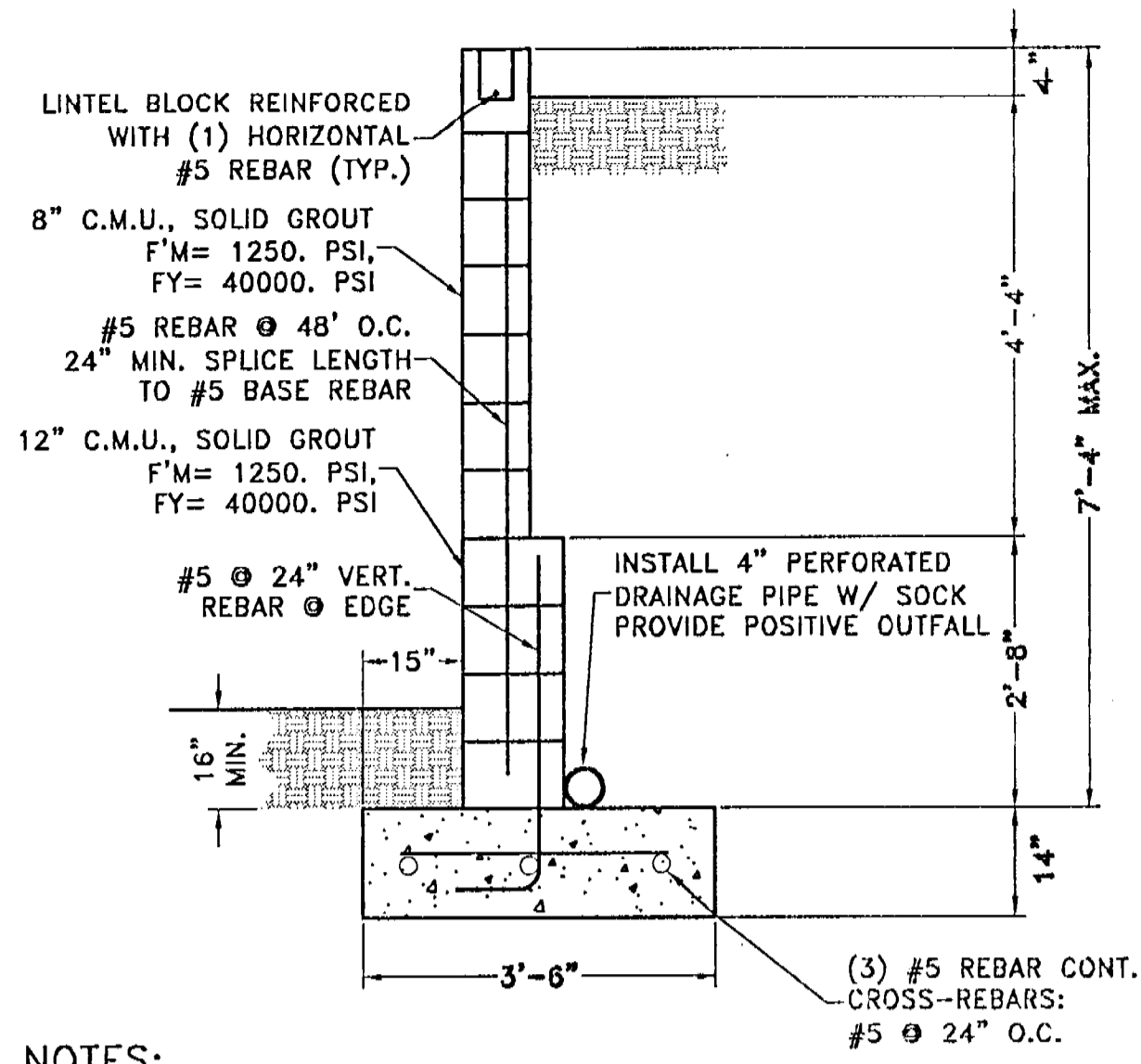
SITE CROSS SECTIONS  
Lot 5 - Hancock Towne Centre  
Sec. 28; Twp. 22S; Rge. 26E, City of Clermont, Lake County, FL  
OWNER/DEVELOPER  
Woody & Wallace Land Development, LLC  
11740 Osprey Pointe Boulevard, Clermont, FL, 34711

RICK McCOY  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
NO. 138725

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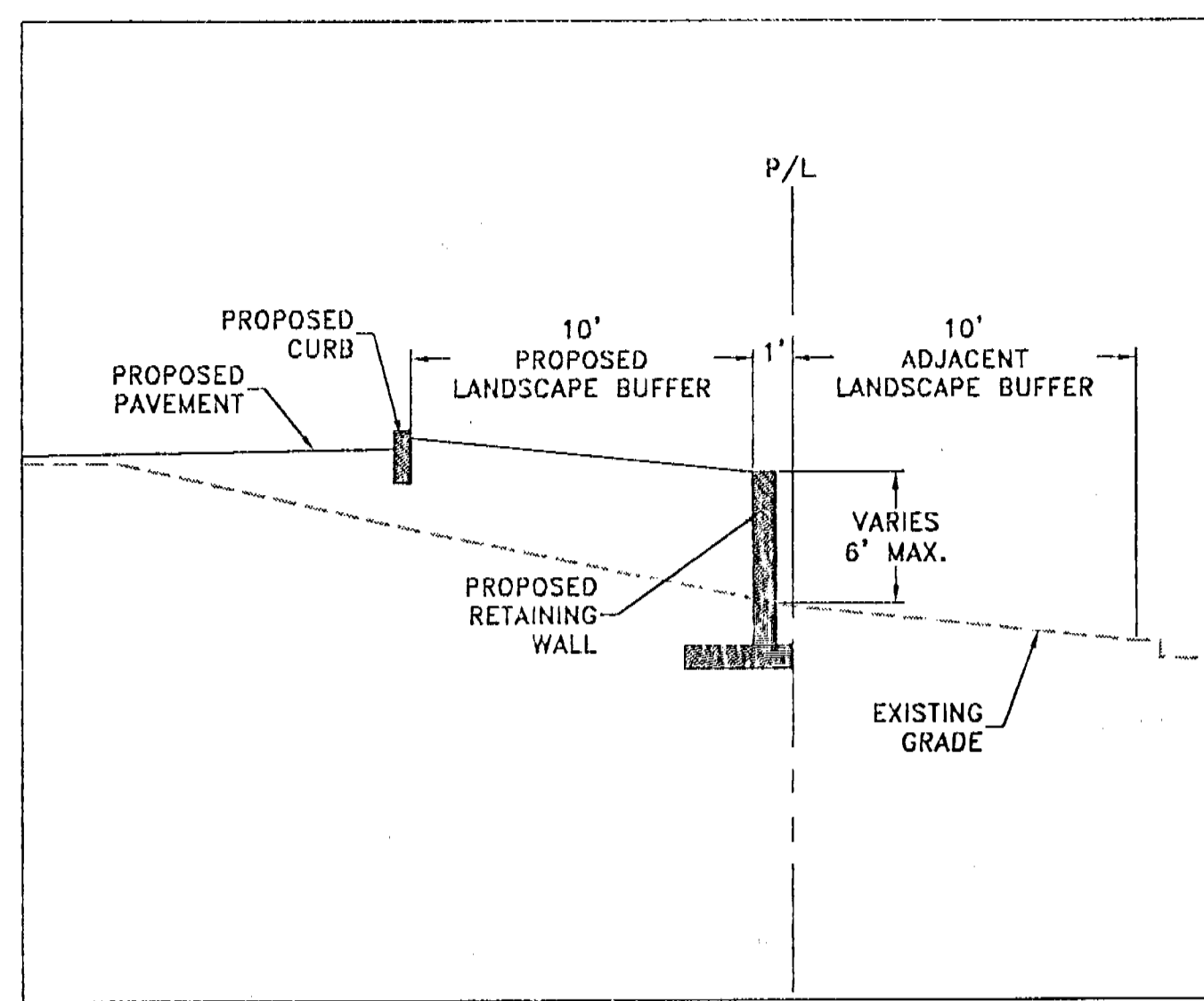
JOB NO.	04-006
DATE	NOV. 2006
DES. BY:	RMG/ES
OWN. BY:	ES
CHECK'D BY:	RMc
APP'D BY:	RMc
SHEET	11 OF 15

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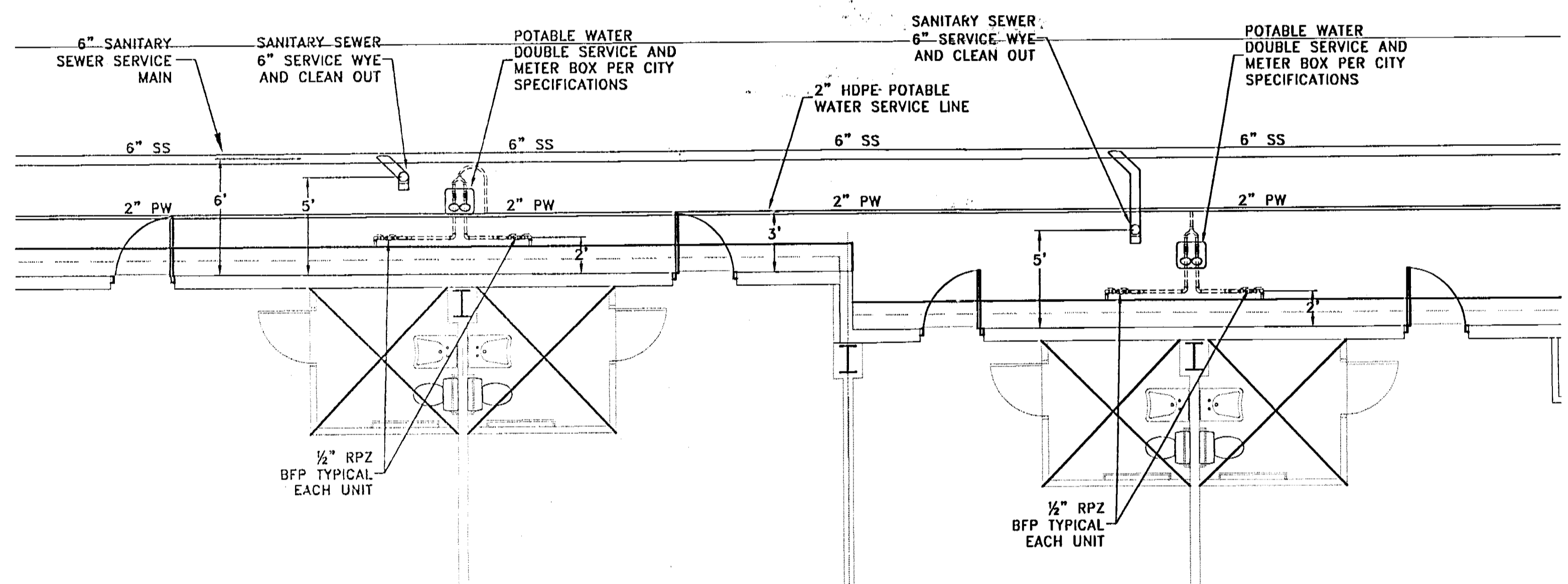


- NOTES:**
- 1) BACKFILL WITH 12" LIFTS OF CLEAN SAND FREE FROM TRASH AND DEBRIS. COMPACT TO 90% MAX. DENSITY.
  - 2) VERTICAL REBARS SHALL BE INSTALLED AGAINST THE INSIDE WALL OF THE CMU CLOSEST TO THE SIDE TO RECEIVE THE BACKFILL.
  - 3) USE STANDARD "C.M.U." CONCRETE BLOCKS. FILL ALL CELLS W/ 3000 PSI CONCRETE. USE "PEA GRAVEL" SIZE AGGREGATE MAX.
  - 4) FOOTER CONCRETE TO BE 2500 PSI @ 28 DAYS.
  - 5) A SEPARATE STRUCTURAL ANALYSIS, BUILDING PERMIT AND INSPECTIONS SHALL BE REQUIRED THROUGH THE CITY OF CLERMONT & LAKE COUNTY FOR THE RETAINING WALLS.

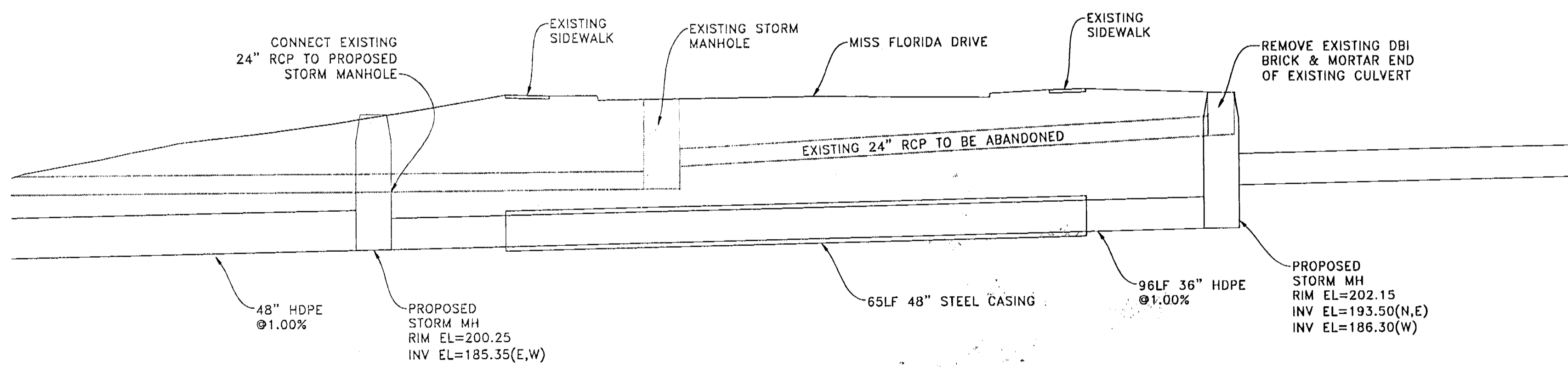
**6" RETAINING WALL DETAIL**  
N.T.S.



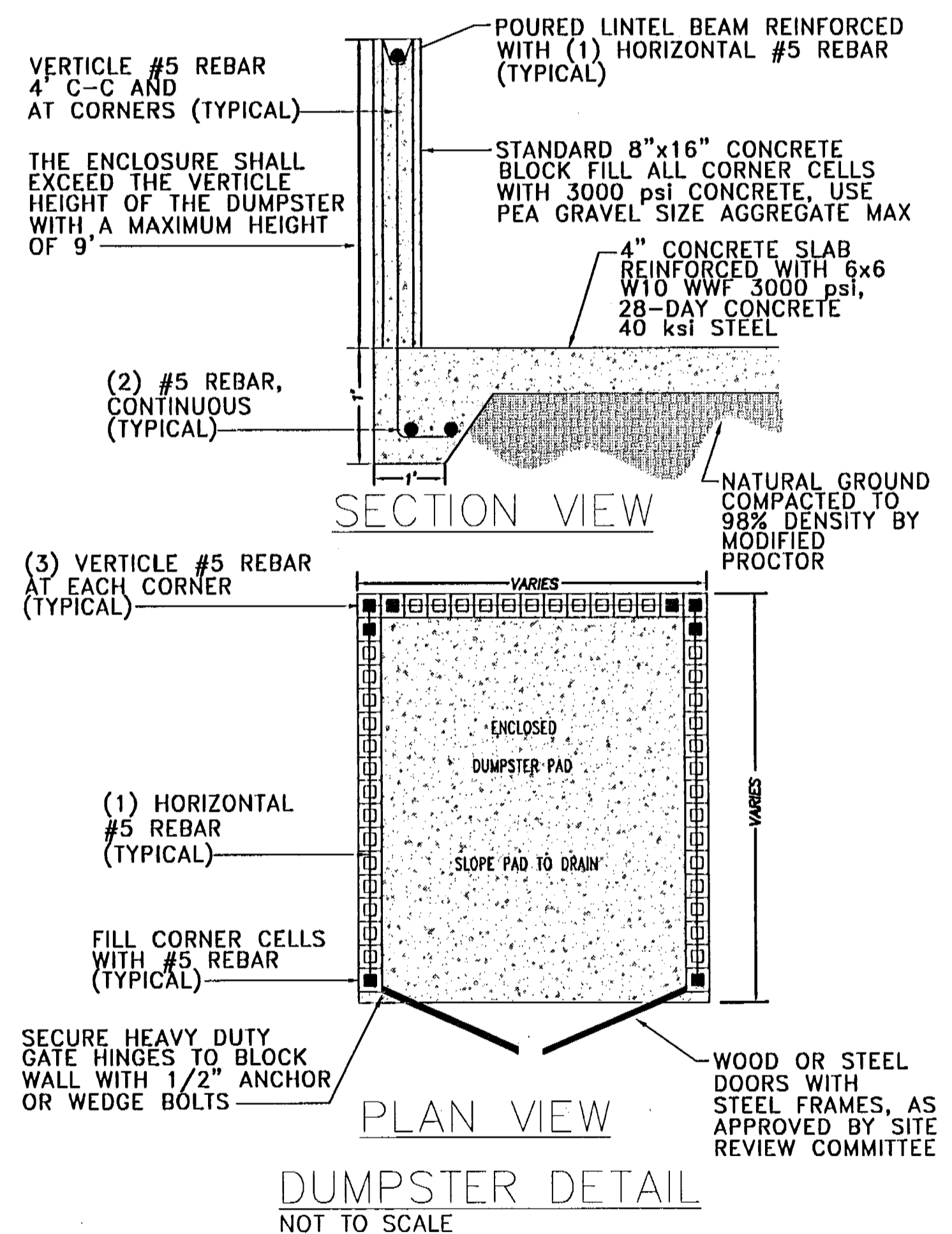
**LANDSCAPE BUFFER/RETAINING WALL DETAIL**  
N.T.S.



**TYPICAL UNIT WATER AND SEWER DETAIL**  
N.T.S.

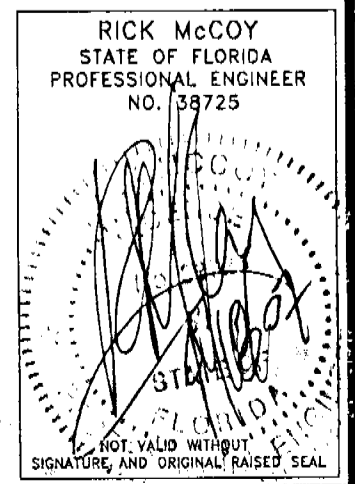


**PROPOSED BORE & JACK**  
**MISS FLORIDA AVENUE**  
Scale: 1"=10'



**DUMPSTER DETAIL**  
NOT TO SCALE

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JOB NO.	04-006
DATE	NOV. 2006
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OWN. BY:	ES
CHK'D BY:	RMC
APP'D BY:	RMC
SHEET	11A OF 15

NO.	DATE	DESCRIPTION
1	12/12/07	Rev per City Comments

**Florida**  
**Geotect, LLC**  
737 West Montrose Street  
Clermont, FL 34711  
(352) 394-9000  
Fax (352) 394-1305

**McCOY & ASSOCIATES**  
**ENGINEERS & LAND PLANNERS**  
13 WEST MONTROSE ST., CLERMONT, FLORIDA 34711  
(352) 394-9756  
CA# 8374

**Lot 5 - Hancock Towne Centre**  
Sec. 28, Twp. 22S, Rge 28E, City of Clermont, Lake County, FL  
**OWNER/DEVELOPER**  
Woody & Wallace Land Development, LLC  
11740 Osprey Pointe Boulevard, Clermont, FL, 34711

REVISIONS

12





# IMPROVEMENT PLANS FOR *HANCOCK TOWNE CENTRE - LOT 5*

Section 28; Township 22 S; Range 26 E; Lake County  
**CLERMONT, FLORIDA**

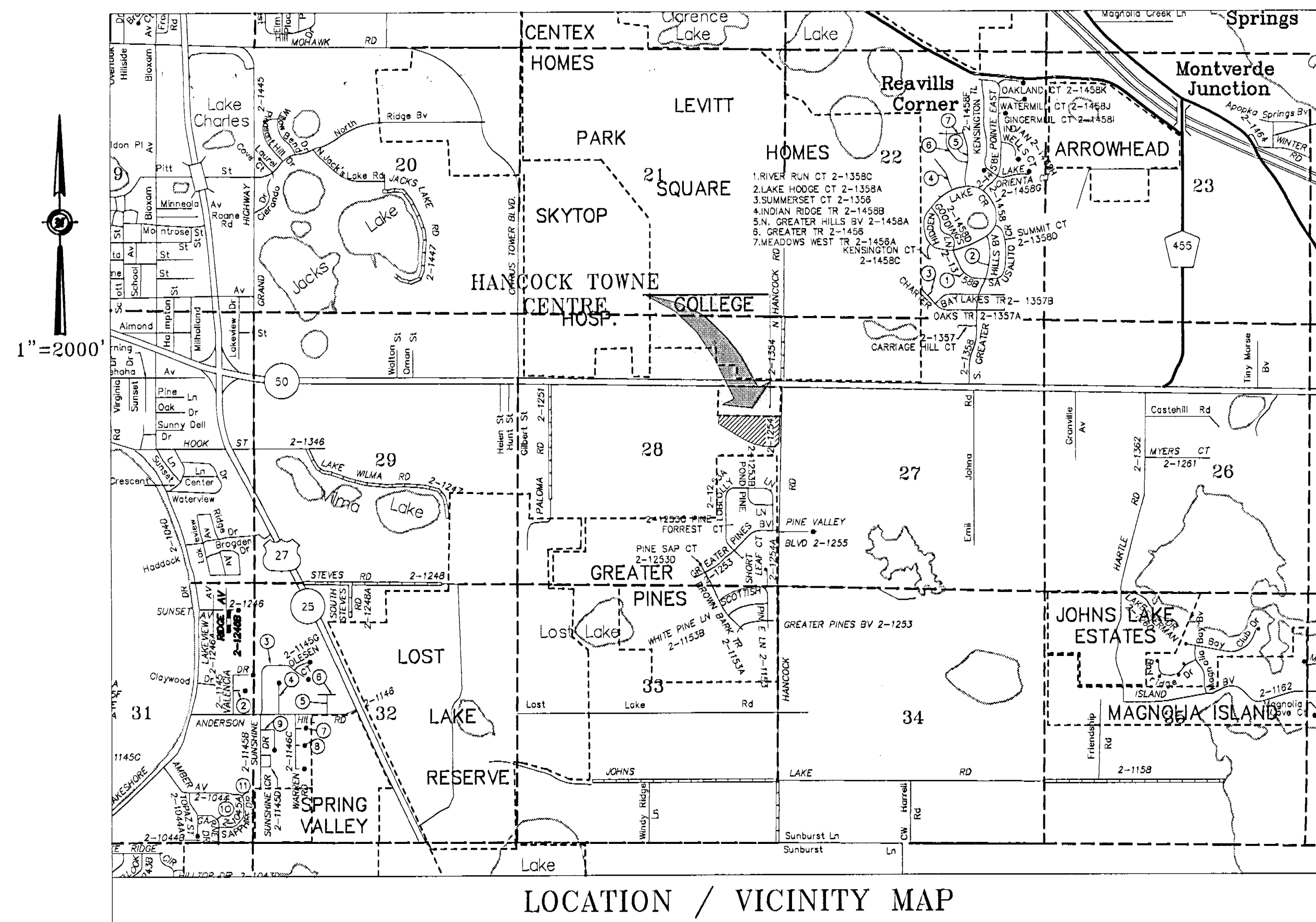
NOVEMBER 2006

**OWNER/DEVELOPER**  
WOODY & WALLACE LAND  
DEVELOPMENT, LLC.  
11740 OSPREY BOULEVARD  
CLERMONT, FLORIDA 34711  
(407) 592-6888

**PLANNERS/ENGINEERS**  
McCOY & ASSOCIATES  
606 SOUTH MAIN AVENUE  
MINNEOLA, FLORIDA 34715  
(352) 394-5756

**SURVEYOR**  
FLORIDA GEODETIC, LLC.  
737 WEST MONTROSE STREET  
CLERMONT, FLORIDA 34711  
(352) 394-3000

**LANDSCAPE**  
FLORIDA LANDSCAPE SERVICES, INC  
6386 BETH ROAD  
ORLANDO, FLORIDA 32824  
(407) 859-1033



**TABLE OF CONTENTS**

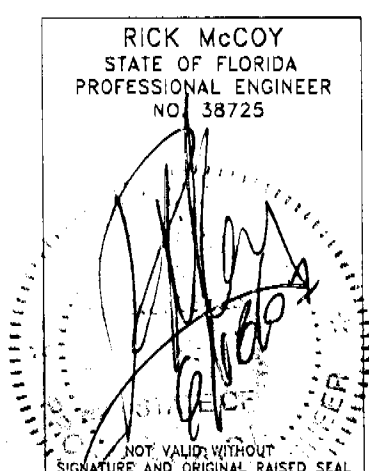
SHT. NO.	TITLE
1	COVER SHEET
2-3	GENERAL NOTES & INDEX SHEET
4	MASTER SITE PLAN
5	AERIAL OVERLAY
6	GEOMETRY PLAN
7	PRE-DEVELOPMENT PLAN
8	GRADING PLAN
9	DRAINAGE PLAN
10	OFFSITE DRAINAGE PLAN
11	UTILITY PLAN
12	CROSS SECTIONS
13	MISC. DETAILS
14	STRIPING/SIGNAGE PLAN
15	PAVING & DRAINAGE DETAILS
16	CLERMONT SANITARY DETAILS
17	CLERMONT WATER DETAILS

**ADDITIONAL DRAWINGS**

LA-1 - LA-2	LANDSCAPE PLANS
IR-1 - IR-2	IRRIGATION PLANS

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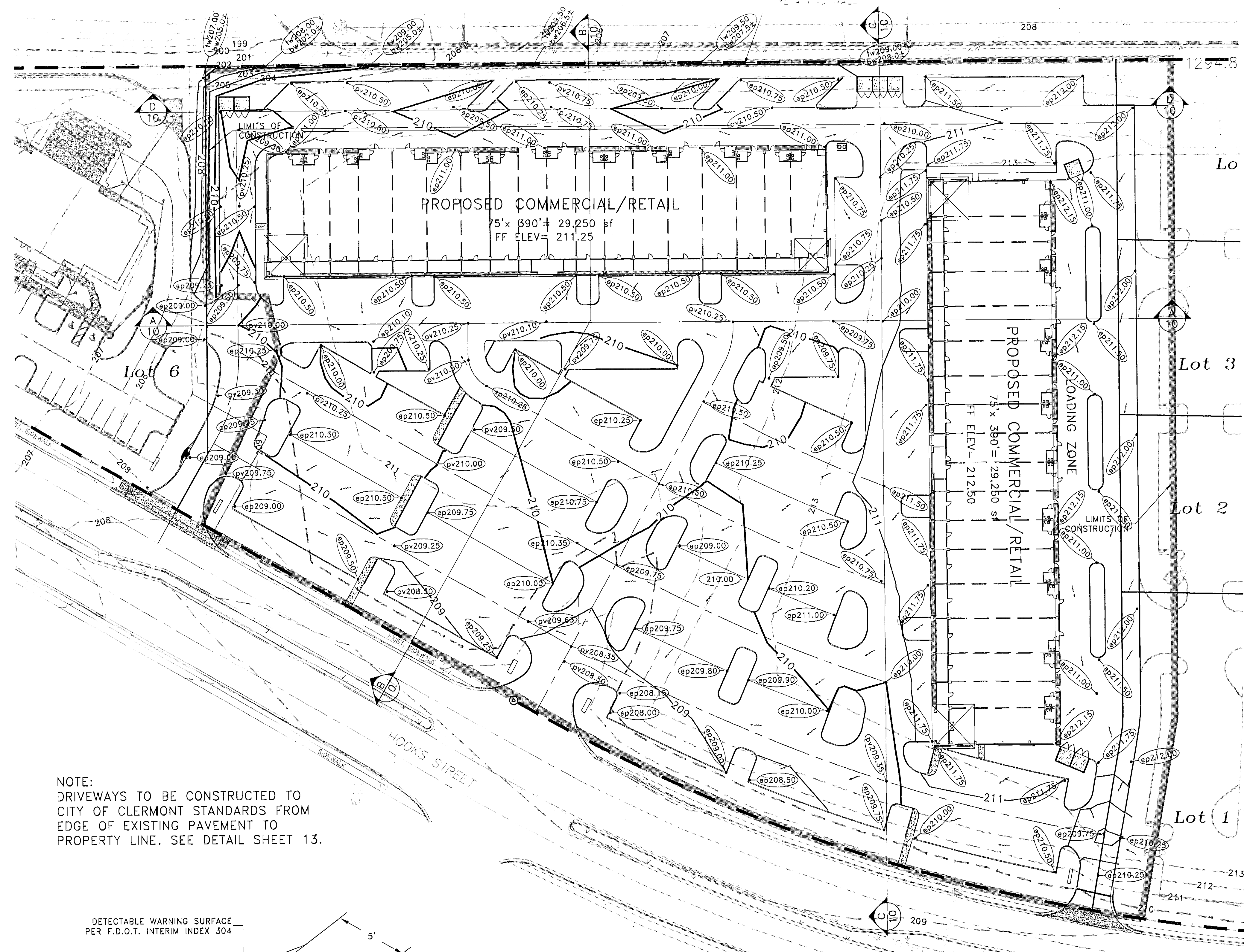


Mc&A #06-012

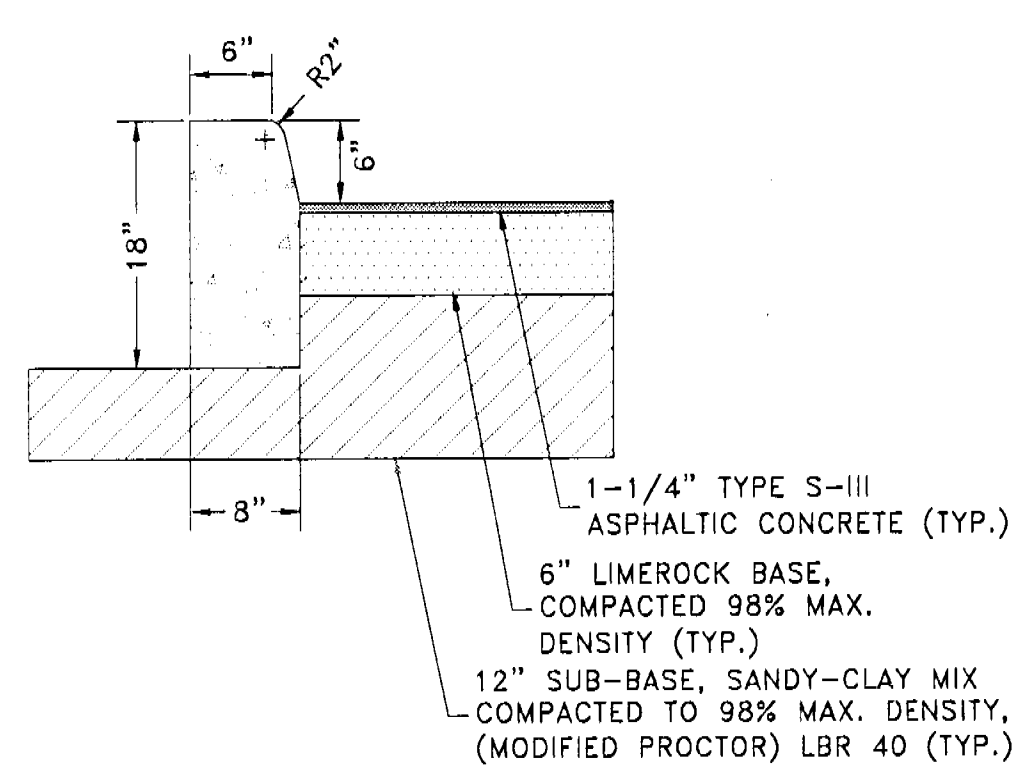
NOTE: ALL PROJECT CONSTRUCTION SHALL CONFORM TO THE CURRENT CLERMONT STANDARDS AND SPECIFICATIONS.  
ALL CONSTRUCTION IN THE F.D.O.T. ROW SHALL CONFORM TO THE CURRENT EDITION AND UPDATES OF THE DESIGN STANDARDS MANUAL.



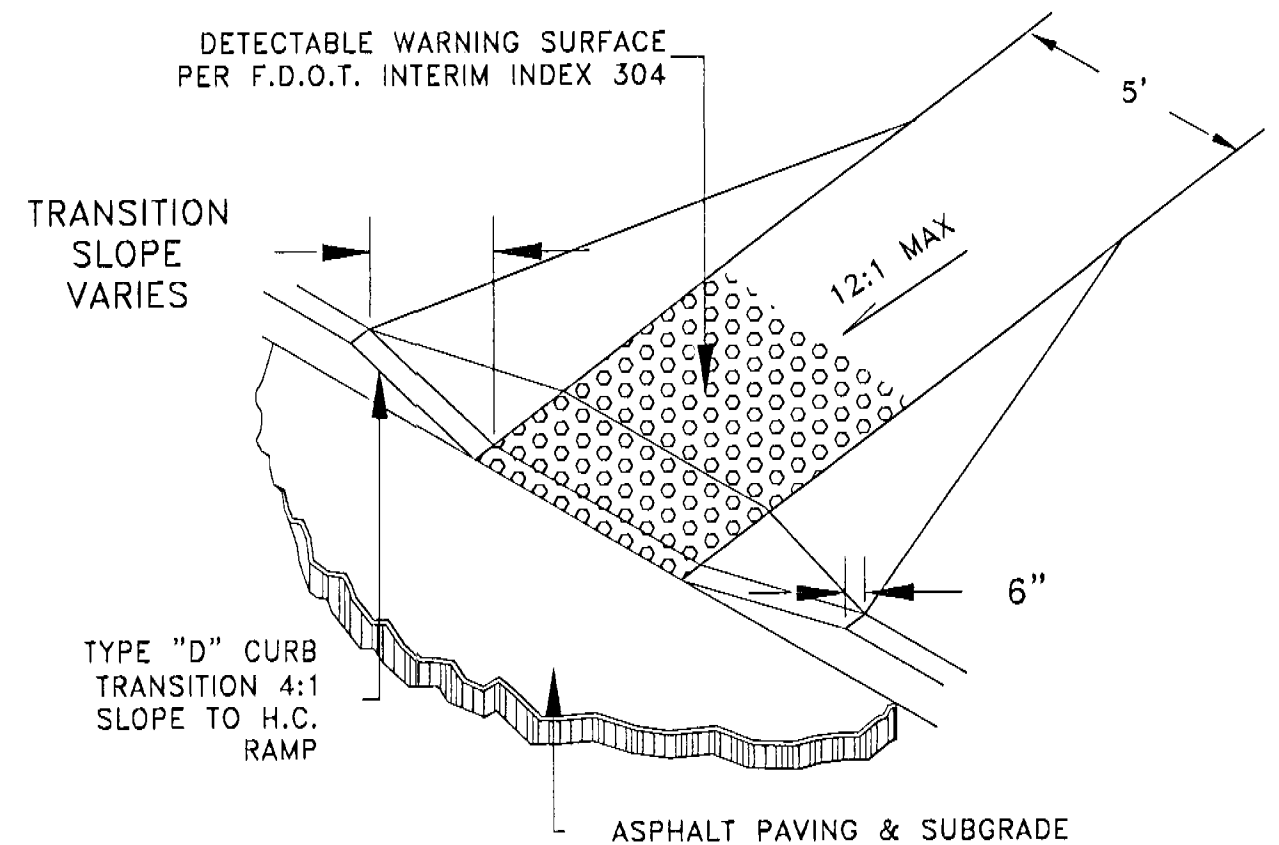
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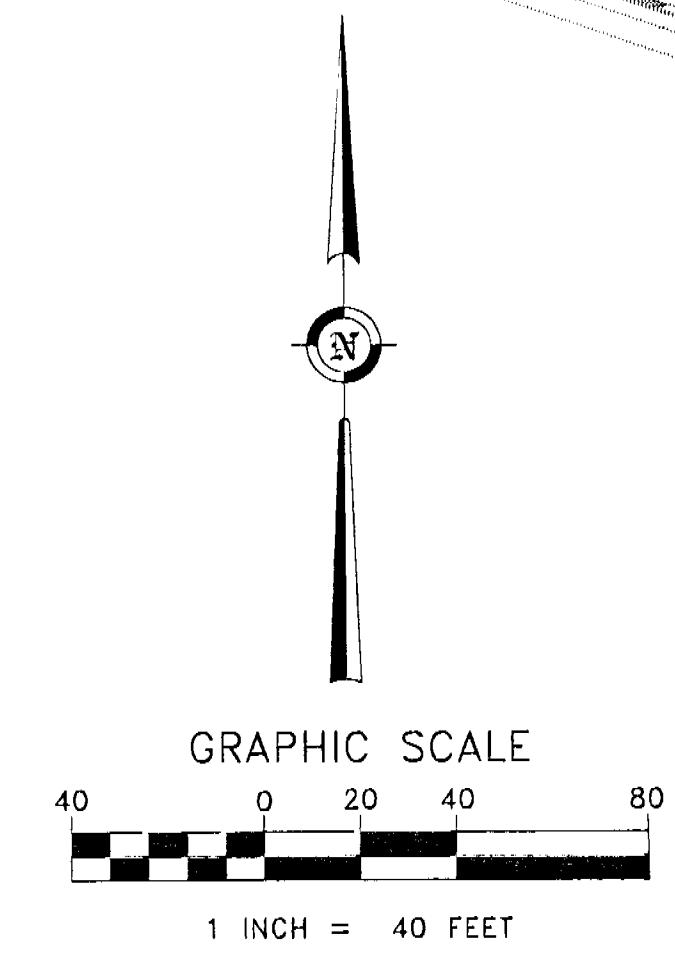
NOTE:  
DRIVEWAYS TO BE CONSTRUCTED TO CITY OF CLERMONT STANDARDS FROM EDGE OF EXISTING PAVEMENT TO PROPERTY LINE. SEE DETAIL SHEET 13.



**HEADER CURB/ASPHALT PAVING DETAIL**  
N.T.S.



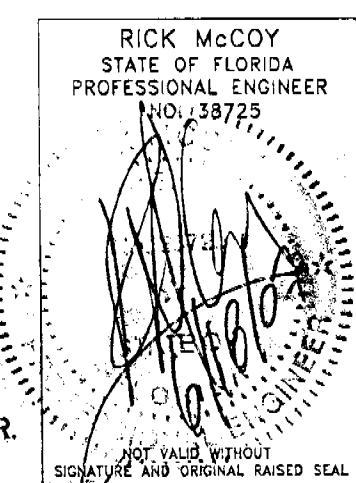
**FLARED SIDE PEDESTRIAN RAMP**  
N.T.S.



Stormwater discharge permitted by Lake County School Board. SJRWMD Permit No. 4-069-68272-3, High School AAA, Condition no. 25.

68272-13

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JOB NO.	06-012
DATE	NOV. 2006
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DWN. BY:	ES
CHK'D BY:	RMG
APP'D BY:	RMG
SHEET	8 OF 17

**GRADING PLAN**

**Lot 5 - Hancock Towne Centre**  
Sec. 28; Twp. 28S; Rge. 26E, City of Clermont, Lake County, FL  
OWNER/DEVELOPER  
Woody & Wallace Land Development, LLC  
11740 Casprey Pointe Boulevard, Clermont, FL, 34711

**MC & A**  
ENGINEERS & LAND PLANNERS  
606 SOUTH MAIN AVE. MINNEOLA, FL 34715  
(352) 394-5766 FAX (352) 394-5768 CA# 6874

Florida  
**Geodetic, LLC**  
737 West Monroe Street  
Clermont, FL 34711  
(352) 394-3000  
Fax (852) 394-1305

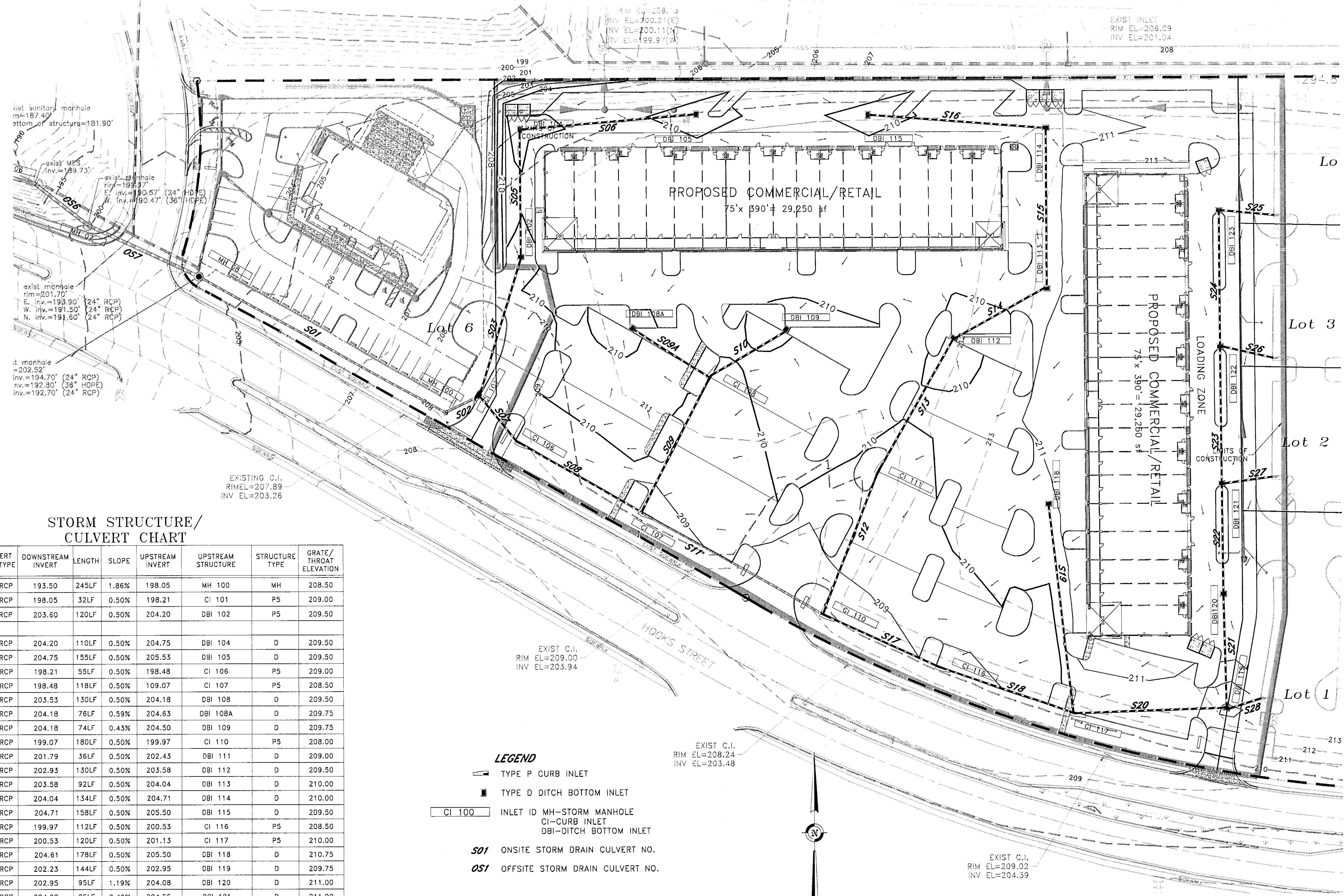
NO.	DATE	DESCRIPTION
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2	05/29/07	Rev per SJRWMD

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4



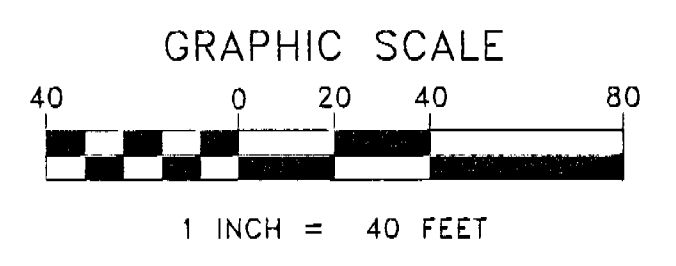
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**STORM STRUCTURE/  
CULVERT CHART**

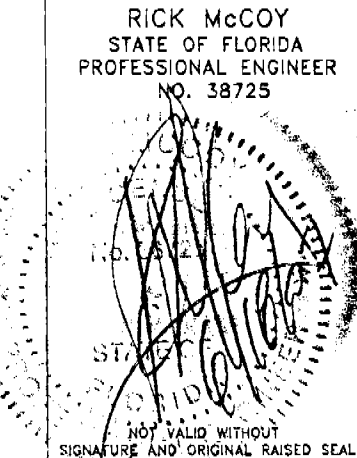
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- LEGEND**
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  - TYPE D DITCH BOTTOM INLET
  - INLET ID MH-STORM MANHOLE
  - CI-CURB INLET
  - DBI-DITCH BOTTOM INLET
  - S01** ONSITE STORM DRAIN CULVERT NO.
  - OS1** OFFSITE STORM DRAIN CULVERT NO.



**NOTES:**  
1. ALL ON AND OFF-SITE DRAINAGE INFRASTRUCTURE CONSTRUCTED TO SERVE THIS PROJECT IS TO BE PRIVATELY OWNED AND MAINTAINED.

68272-13  
**RECEIVED**  
JUN 19 2007  
PDS  
ALAMONTE SVC. CTR.



**JOB NO.** 06-012  
**DATE** MAY 2006  
**DES. BY:** RMc/ES  
**DWN. BY:** ES  
**CHK'D BY:** RMc  
**APP'D BY:** RMc  
**SHEET** 9 OF 17

**DRAINAGE PLAN**

**Lot 5 - Hancock Towne Centre**  
Sec. 28; Twp. 22S; Rge 28E, City of Clermont, Lake County, FL  
OWNER/DEVELOPER: Woody & Wallace Land Development, LLC  
11740 Osprey Pointe Boulevard, Clermont, FL 34711

**MC & A**  
ENGINEERS & LAND PLANNERS  
806 SOUTH MAIN AVE. MINNEOLA, FL 34715  
(352) 394-5766 FAX (352) 394-5768  
CA# 8374

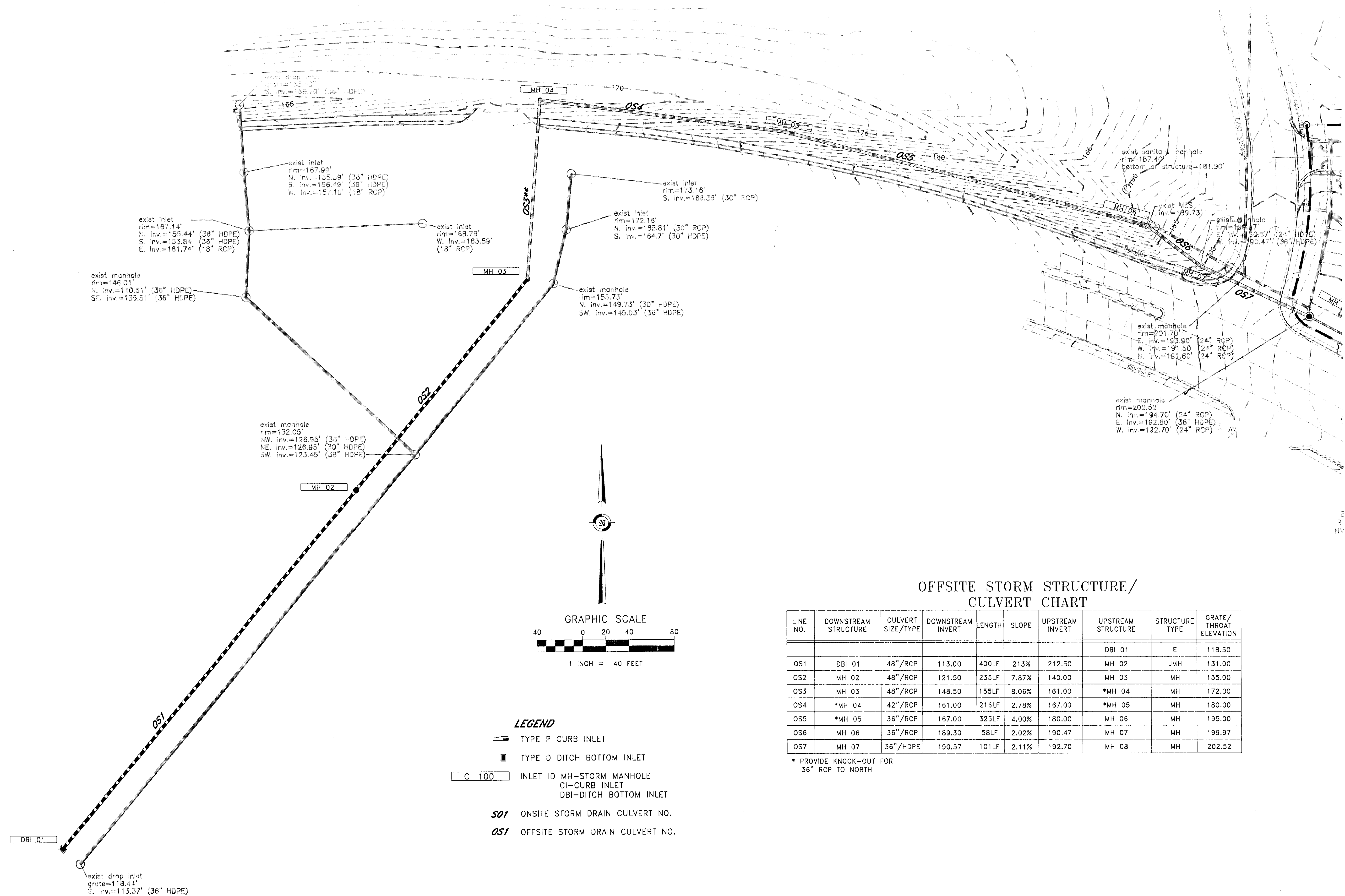
**Florida Geodetic, LLC**  
787 West Montrose Street  
Clermont, FL 34711  
(352) 394-8000  
Fax (352) 394-1305

**REVISIONS**

NO.	DATE	DESCRIPTION
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OFFSITE STORM STRUCTURE/  
CULVERT CHART

LINE NO.	DOWNSTREAM STRUCTURE	CULVERT SIZE/TYP	DOWNSTREAM INVERT	LENGTH	SLOPE	UPSTREAM INVERT	UPSTREAM STRUCTURE	STRUCTURE TYPE	GRATE/THROAT ELEVATION
							DBI 01	E	118.50
OS1	DBI 01	48"/RCP	113.00	400LF	213%	212.50	MH 02	JMH	131.00
OS2	MH 02	48"/RCP	121.50	235LF	7.87%	140.00	MH 03	MH	155.00
OS3	MH 03	48"/RCP	148.50	155LF	8.06%	161.00	*MH 04	MH	172.00
OS4	*MH 04	42"/RCP	161.00	216LF	2.78%	167.00	*MH 05	MH	180.00
OS5	*MH 05	36"/RCP	167.00	325LF	4.00%	180.00	MH 06	MH	195.00
OS6	MH 06	36"/RCP	189.30	58LF	2.02%	190.47	MH 07	MH	199.97
OS7	MH 07	36"/HDPE	190.57	101LF	2.11%	192.70	MH 08	MH	202.52

\* PROVIDE KNOCK-OUT FOR  
36" RCP TO NORTH

- LEGEND**
- TYPE P CURB INLET
  - TYPE D DITCH BOTTOM INLET
  - INLET ID MH-STORM MANHOLE  
CI-CURB INLET  
DBI-DITCH BOTTOM INLET
  - SO1** ONSITE STORM DRAIN CULVERT NO.
  - OS1** OFFSITE STORM DRAIN CULVERT NO.

NO. DATE DESCRIPTION

1 03/12/07 Rev per City comments

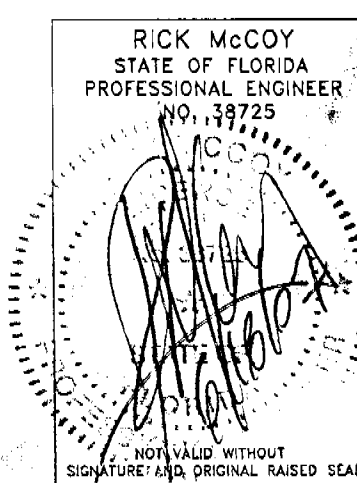
**Florida Geodetic, LLC**  
787 West Montrose Street  
Clermont, FL 34711  
(352) 394-3000  
Fax (352) 394-1305

**McCOY & ASSOCIATES**  
ENGINEERS & LAND PLANNERS  
608 SOUTH MAIN AVE. MINNEOLA, FL 34715  
(352) 394-5756 FAX (352) 394-5758  
CA#: 8374

**OFFSITE DRAINAGE PLAN**

**Lot 5 - Hancock Towne Centre**  
Sec. 28; Twp. 22S; Rge 28E, City of Clermont, Lake County, FL  
OWNER/DEVELOPER  
Woody & Wallace Land Development, LLC  
11740 Osprey Pointe Boulevard, Clermont, FL, 34711

68272-13  
**RECEIVED**  
JUN 19 2007  
PDS  
ALTAMONTE SVC. CTR.



JOB NO. 06-012  
DATE MAY 2006  
DES. BY: RMc/ES  
DWN. BY: ES  
CHK'D BY: RMc  
APP'D BY: RMc  
SHEET 10 OF 17