

#13

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of drawings 13
Oversized Drawings

1723

68272-14

Map-4073

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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	5.36'

PROPOSED LAND USE SUMMARY

DESCRIPTION:	LOT 1		LOT 2		LOT 3		LOT 4		TOTALS		
	Area S.F.	Area AC.	Area S.F.	Area AC.	Area S.F.	Area AC.	Area S.F.	Area AC.	Area S.F.	Area AC.	%
BUILDING AREA	9,122sf	0.209 ac.	7,252sf	0.166 ac.	7,154sf	0.164 ac.	7,400sf	0.170 ac.	30,928sf	0.710ac.	15.77%
SIDEWALK AREA	1,392sf	0.032 ac.	1,487sf	0.034 ac.	1,371sf	0.031 ac.	2,227sf	0.149 ac.	6,477sf	0.149ac.	3.30%
PARKING AREA	38,289sf	0.879 ac.	20,813sf	0.478 ac.	20,827sf	0.478 ac.	18,223sf	0.418 ac.	98,152sf	2.253ac.	50.04%
TOTAL IMPERVIOUS AREA	48,803sf	1.120 ac.	29,552sf	0.678 ac.	29,746sf	0.674 ac.	27,850sf	0.639 ac.	135,557sf	3.112ac.	69.11%
GREEN SPACE	24,740sf	0.568 ac.	10,509sf	0.241 ac.	10,172sf	0.243 ac.	14,764sf	0.339 ac.	60,579sf	1.391ac.	30.89%
TOTAL LOT AREA	73,543sf	1.688 ac.	40,061sf	0.920 ac.	39,918sf	0.916 ac.	42,614sf	0.978 ac.	196,136sf	4.503 ac.	100.00%

PROJECT CHARACTERISTICS

PROPERTY AREAS.....LOT 1 1.69ac
 LOT 2 0.92ac
 LOT 3 0.92ac
 LOT 4 0.98ac
 TOTAL PROPERTY AREA.....4.50ac

BUILDING FLOOR AREA.....LOT 1 9,122 sf
 LOT 2 7,252 sf
 LOT 3 7,154 sf
 LOT 4 7,400 sf
 TOTAL BUILDING AREA.....31,078 sf

ZONING.....C-2/PUD

PROPOSED SERVICES:
 DRINKING WATER.....CITY OF CLERMONT
 SEWAGE DISPOSAL.....CITY OF CLERMONT
 ELECTRIC.....PROGRESS ENERGY
 NATURAL GAS.....LAKE APOPKA NATURAL GAS DISTRICT
 TELEPHONE.....EMBARC
 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:

LOT 1
 COMMERCIAL/RETAIL= 4,661 sf
 (1) Parking Space per 200 sf
 [4,666/200] = (24) Spaces Req'd.

RESTAURANT= 4,461 sf
 (1) Parking Space per 50 sf of Patron area
 [2,666/50] = (54) Spaces Req'd.
 (1) Parking Space per 2 employees
 [8 employees/2] = (4)
 (80) Total Spaces Required

REQUIRED HANDICAPPED SPACES
 (1) Space per 25 Regular Spaces = (4) Spaces Req'd

PARKING SPACES PROVIDED: (76) REGULAR (10'x20')
 (4) HANDICAPPED (12'x20')
 (80) Total Spaces Provided

LOT 2
 COMMERCIAL/RETAIL= 7,252 sf
 (1) Parking Space per 200 sf
 [7,252/200] = (36) Spaces Req'd.

REQUIRED HANDICAPPED SPACES
 (1) Space per 25 Regular Spaces = (3) Spaces Req'd

PARKING SPACES PROVIDED: (53) REGULAR (10'x20')
 (3) HANDICAPPED (12'x20')
 (56) Total Spaces Provided

LOT 3
 COMMERCIAL/RETAIL= 7,154 sf
 (1) Parking Space per 200 sf
 [7,154/200] = (36) Spaces Req'd.

REQUIRED HANDICAPPED SPACES
 (1) Space per 25 Regular Spaces = (3) Spaces Req'd

PARKING SPACES PROVIDED: (53) REGULAR (10'x20')
 (3) HANDICAPPED (12'x20')
 (56) Total Spaces Provided

LOT 4
 COMMERCIAL/RETAIL= 7,400 sf
 (1) Parking Space per 200 sf
 [7,400/200] = (37) Spaces Req'd.

REQUIRED HANDICAPPED SPACES
 (1) Space per 25 Regular Spaces = (2) Spaces Req'd

PARKING SPACES PROVIDED: (41) REGULAR (10'x20')
 (2) HANDICAPPED (12'x20')
 (43) Total Spaces Provided

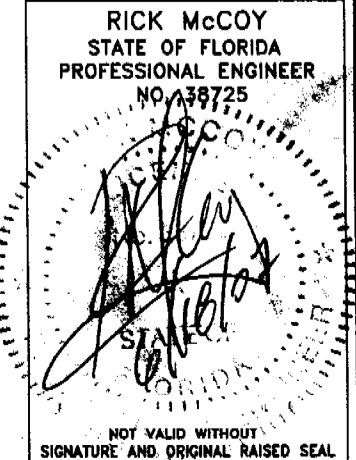
NOTES:
 1) STORMWATER ATTENUATION HAS BEEN ALLOWED FOR AND PREVIOUSLY PERMITTED AT AN OFF SITE WRA. LOCATED SOUTHWEST OF THE PROPOSED SITE. SURWMD Permit No. 4-069-68272-3, High School AAA, Condition no. 25.
 2) A PRE-CONSTRUCTION MEETING WITH THE CITY OF CLERMONT SHALL BE REQUIRED PRIOR TO THE COMMENCEMENT 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".
 4) NO SITE LIGHTING PROPOSED.

NOTE:
 1. DIMENSIONS ARE TO FACE OF CURB.

68272-14

PROPERTY DESCRIPTION
 LOTS 1-4 OF "HANCOCK TOWNE CENTRE" AS RECORDED IN PLAT BOOK 60, PAGES 86 & 87, LAKE COUNTY PUBLIC RECORDS CONTAINING 4.50± ACRES MORE OR LESS AND BEING SUBJECT TO RESTRICTIONS, RIGHTS-OF-WAY AND EASEMENTS OF RECORD.

RECEIVED
 JUN 19 2007
 PDS
 ALTAMONTE SVC. CTR



NO.	DATE	DESCRIPTION
1	03/20/07	Revised per City comments
2	5/29/07	Rev per SURWMD

Florida
Geotetic, LLC
 787 West Monroe Street
 Clermont, FL 34711
 (352) 394-9000
 Fax (352) 394-1305

McCoy & Associates
 ENGINEERS & LAND PLANNERS
 606 SOUTH MAIN AVE. MINNEOLA, FL 34715
 (352) 394-9756
 CNF-8374

MASTER SITE/GEOMETRY PLAN
Lots 1-4 - Hancock Towne Centre
 Sec. 28, Twp. 28S, Rge. 24E, City of Clermont, Lake County, FL
 OWNER/DEVELOPER
 Woodbury LLC
 14165 Popcorn Tree Court, Orlando, Florida, 32828

JOB NO.	06-014
DATE	February 2007
DES. BY:	RMc/ES
DWN. BY:	ES
CHKD BY:	RMc
APP'D BY:	RMc
SHEET	4 OF 14

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 CONVENIENCE OF THE CONTRACTOR. THE ENGINEER 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 DRAINAGE COSTS OF THE CONTRACT TO OPERATE AND MAINTAIN THE DRAINAGE SYSTEMS DURING THE WORK PERIOD.

THE UTILITIES ARE THE PROPERTY OF THE FOLLOWING:

Table with 3 columns: WATER, POWER, SOWER. Lists utility companies like CITY OF CLERMONT, PROGRESS ENERGY, SOWER ELECTRIC, etc.

Table with 3 columns: SENER, CABLE, GAS. Lists utility companies like CITY OF CLERMONT, TIME WARNER CABLE, AOPKA NATURAL GAS, etc.

Table with 2 columns: TELEPHONE, EMBARK. Lists phone companies like P.O. BOX 490048, LEESBURG, FL 34749-0048, etc.

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 SYSTEMS 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 SODED 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 DIMENSION 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 THEREOF.

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 LAID 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... 2) ALL MATERIALS EXCAVATED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STOCKPILED AT ON-SITE LOCATIONS AS SPECIFIED BY THE OWNER...

FILL MATERIAL

ALL MATERIALS SHALL CONTAIN NO MUCK, STUMPS, ROOTS, BRUSH, VEGETATIVE MATTER, RUBBISH OR OTHER MATERIAL THAT WILL NOT COMPACT INTO A SUITABLE AND ENDURING 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 TIMELY AND 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 DRAINING SURFACE FOR VEHICLES WITH NO SHARP BREAKS IN GRADE AND NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES. APPROACHES TO INTERSECTIONS AND ENTRANCE AND EXIT GRADATIONS TO INTERSECTIONS WILL HAVE TO BE STAGED 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 ONE 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-II OF VIRGIN ASPHALTIC CONCRETE SURFACE COURSE WITH A MINIMUM STRENGTH OF 1500 LBS. SUBGRADE PREPARATION AND PAVEMENT INSTALLATION SHALL CONFORM TO FOOT 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. HANDICAPPED 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 FOOT 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 WARNING 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 CONSTRUCTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FOOT 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 SWALES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING. ALL DISTURBED AREAS SHALL BE RAKED CLEAN OF ALL LIMESTOCK 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.

PIPE INSTALLATION

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 LOGO 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/A21.50 (LATEST EDITION). ALL DUCTILE IRON PIPE SHALL HAVE A STANDARD THICKNESS OF CEMENT MORTAR LINING AS SPECIFIED IN ANS/AWWA C104/A21.4 (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 DETAIL.

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 ANNA 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 ANNA 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 ANNA 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, APD 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. WATER BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE, AND SHALL BE MANUFACTURED BY MUELLER COMPANY, MODEL 10364, OR APPROVED EQUIV. VALVE BOX PADS 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 DETAIL.

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 BOXES 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 ANNA C901.88, MIN. 200 PSI. AND SHALL BE PHILLIPS DRISCO CTS 5100 (DR-9) ASTM D-2737, 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 B41-444W FOR 1" ONLY
- FORD BF43-777W FOR 1-1/2"
- FORD BF43-777W FOR 2"
METER BOX - SINGLE ONLY (NO DOUBLE METER BOXES ALLOWED). DEXOL WITH IRON READER DOOR WITH TOUCH READ LD. METER BOXES FOR 1-1/2" AND 2" SHALL BE COR 177-307 WITH TOUCH READ LD. METER BOXES IN TRAFFIC AREAS SHALL BE BROOKS 36 SERIES WITH TOUCH READ LD.
COMPOUND Y BRANCH - FORD Y44
JOINT RESTRAINT - MEGA LUG

INSTALL OR PROMOTE CITY WITH 1 1/2" BRASS BUSHING AT METER DISCHARGE CONNECTION. THE CONTRACTOR SHALL CUT A "W" IN THE CURB TOP AT EACH WATER SERVICE AND A "Y" AT ALL VALVE LOCATIONS. CUT "W" AND "Y" 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 ANNA 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 COMPACTION OF 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 50 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 10 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 THRUST BLOCKS TO BE USED.

ALL PLUGS, 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 IDENTIFICATION TAPE SHALL BE BURIED IN THE WATER MAIN TRENCH 18" DIRECTLY ABOVE THE WATER MAIN. 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(2)(b)(3), F.A.C., 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 ABOVE 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 ANNA STANDARD C651.86. PVC WATER MAINS SHALL BE INSTALLED; PRESSURE AND LEAK TESTED IN ACCORDANCE WITH ANNA C605 AND DUCTILE IRON WATER MAINS IN ACCORDANCE WITH ANNA C600, (62-555.320(2)(b) 1 AND 62-555.330, F.A.C.). ALL INSTALLATION, TESTING AND FIELD PROCEDURES MUST BE PROVIDED AND MUST CONFORM TO THE APPLICABLE ANNA 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 FDDP 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 FDEP CLEARANCE. REFER TO FDEP 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. ONE 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 DR33 PVC PIPE MEETING ASTM 3034, AND SHALL HAVE A MINIMUM COVER OF THREE (3) FEET.
2. WHERE REQUIRED, MANS SHALL BE CLASS 50 DUCTILE IRON PIPE (DIP) MEETING ANNA C150 AND C151. MANS SHALL BE 60 MIL EPOXY COATED WITH POLYETHYLENE WRAP CONFORMING TO ANNA 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 ELASTOMER GASKET JOINTS MANUFACTURED IN ACCORDANCE WITH ASTM D3212 AND ASTM F417. 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. RING AND COVER SHALL BE TRAFFIC BEARING H-20 CLASS 30 MEETING ASTM 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 TYPE 18" ABOVE THE CENTERLINE OF PIPE. DROP MANHOLE IF ANY 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".

FORCEMAINS

- 1. FORCEMAINS SHALL BE DR18 PVC PIPE CONFORMING TO ANNA C-900, OR 60 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 FORCEMAINS 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.
2. 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 ANNA 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 6" 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 FDEP 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 ANNA C651, 1992 EDITION, THE TAPPING SLEEVE AND THE EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR SWABBING PER SECTION II OF ANNA 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:

- A. THE TIE-IN VALVES SHALL BE OPERATED ONLY BY THE CITY AND PRESSURE TESTED IN THE PRESENCE OF THE CITY AND ENGINEER TO VERIFY WATER TIGHTNESS PRIOR TO TIE-IN. VALVES WHICH ARE NOT WATER-TIGHT SHALL BE REPLACED OR A NEW VALVE INSTALLED IMMEDIATELY ADJACENT TO THE LEAKING VALVE.
B. THE TEMPORARY JUMPER CONNECTION SHALL BE CONSTRUCTED AS DETAILED. THE JUMPER CONNECTION SHALL BE USED TO FILL THE NEW WATER MAIN, FOR PROVIDING WATER FOR BACTERIOLOGICAL SAMPLING OF THE NEW MAIN AS REQUIRED BY THE FDEP PERMIT AND FOR MAINTAINING CHLORINE RESIDUALS IN THE MAINS.
1. FLUSHING SHALL NOT BE ATTEMPTED DURING PEAK DEMAND HOURS OF THE EXISTING WATER MAIN.
2. ALL DOWNSTRAM VALVES IN THE NEW SYSTEM MUST BE OPEN PRIOR TO THE CITY OPENING THE TIE-IN VALVE.
3. PROVIDE FOR AND MONITOR THE PRESSURE AT THE TIE-IN POINT. THE PRESSURE IN THE EXISTING MAIN MUST NOT DROP BELOW 35 PSI.
4. TIE-IN VALVE SHALL BE OPENED BY THE CITY A FEW TURNS ONLY, ENSURING A PRESSURE DROP ACROSS THE VALVE IS ALWAYS GREATER THAN 10 PSI.
C. THE TIE-IN VALVE SHALL BE LOCKED CLOSED BY THE CITY UNTIL THE FLUSHING BEGINS.
D. THE TIE-IN VALVE SHALL BE OPENED ONLY BY THE CITY FOR FLUSHING OF THE NEW MAIN. THE PROCEDURE SHALL BE DONE BY THE CITY AND OBSERVED BY THE ENGINEER.
E. AFTER FLUSHING, THE TIE-IN VALVE SHALL BE CLOSED AND LOCKED IN THE CLOSE POSITION BY THE CITY.

FIRE HYDRANTS

FIRE HYDRANTS SHALL CONFORM TO THE LATEST EDITION OF ANSA 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 SIEMSE (FDC) FOR FIRE SPRINKLER OR STANDPIPE SYSTEMS MUST BE WITHIN 100 FEET OF A 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...

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...

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 THE PARKING OF VEHICLES...

FIRE LANE MARKINGS ON THE PAVEMENT MUST BE IN DOT YELLOW OR RED AND INCLUDE A CROSSHATCH 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 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 "FAILSAFE" LOCK BOXES WILL BE REQUIRED ON ALL COMMERCIAL BUILDINGS (NFPA 1, CHAPTER 3-6 AS ADAPTED IN THE FLORIDA FIRE PREVENTION CODE THROUGH FLORIDA ADMINISTRATIVE CODE...

LOCK BOXES SHALL CONTAIN KEYS TO THE BUILDING (INCLUDING ENTRANCE DOORS AND ALL ELECTRICAL AND MECHANICAL ROOMS) AND ANY SYSTEMS IN THE BUILDING...

APPLICATIONS FOR THE PURCHASE OF "KNOX BOX" OR "FAILSAFE" 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 ADAPTED 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

Table with 2 columns: Symbol/Line Style and Description. Includes symbols for property boundary, roadway centerline, existing roadway, storm drainage pipe, manhole, water main, etc.

ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes AC (ACRES), BW (BOTTOM OF WALL ELEVATION), N.T.S. (NOT-TO-SCALE), etc.

REVISIONS table with columns for NO, DATE, and DESCRIPTION.

McCOY & ASSOCIATES logo and contact information: ENGINEERS & LAND PLANNERS, 716 WEST MONTROSE ST., CLERMONT, FLORIDA 34711.

GENERAL NOTES & INDEX section with project address: Lots 1-4 - Hancock Towne Centre, Sec. 28, Twp. 22S, Rge 26E, City of Clermont, Lake County, FL.

68272-14 RECEIVED APR 18 2007 PDS ALTAMONTE SVC. CTR.

GENERAL NOTES LAST REVISED 08-01-06

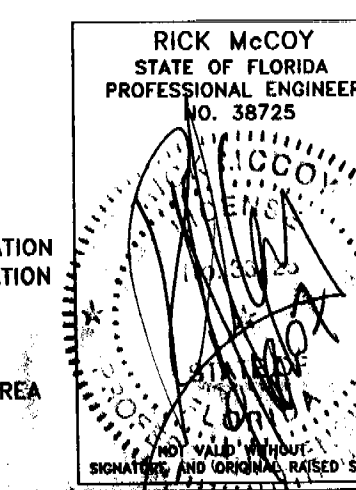
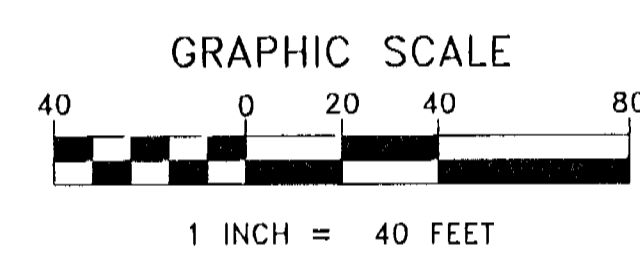
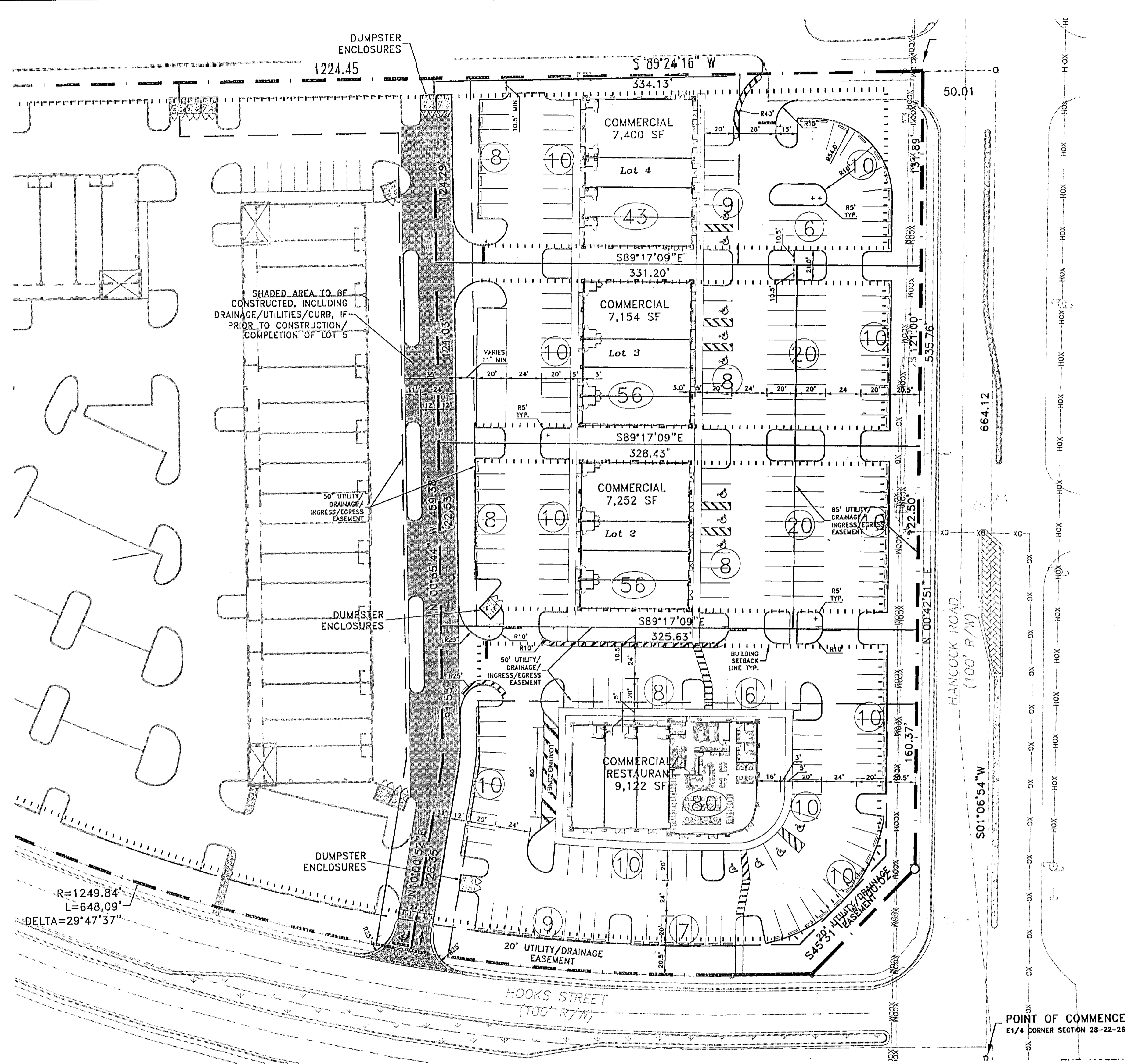


Table with project details: JOB NO. 06-012, DATE NOV 2006, DES. BY: RMC/ES, DWN. BY: ES, CHK'D BY: RMC, APP'D BY: RMC, SHEET 3 OF 14.

THE ENGINEER EXPRESSLY RESERVES THE EXCLUSIVE COMMON-LAW COPYRIGHT AND PROPERTY RIGHTS TO THESE DRAWINGS WHICH MAY NOT BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER, NOR ARE THEY TO BE ASSIGNED TO ANY PARTY WITHOUT THE ENGINEER'S WRITTEN CONSENT.

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PROJECT CHARACTERISTICS

PROPERTY AREAS.....	LOT 1 1.69ac	LOT 2 0.92ac	LOT 3 0.9200ac	LOT 4 0.98ac	4.50ac
TOTAL PROPERTY AREA.....					
BUILDING FLOOR AREA.....	LOT 1 9,122 sf	LOT 2 7,252 sf	LOT 3 7,548 sf	LOT 4 7,548 sf	31,076 sf
TOTAL BUILDING AREA.....					
ZONING.....	C-2/PUD				
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:					
LOT 1					
COMMERCIAL/RETAIL= 4,661 sf					
(1) Parking Space per 200 sf	[4,666/200] = (24) Spaces Req'd.				
RESTAURANT= 4,461 sf					
(1) Parking Space per 50 sf of Patron area	[2,666/50] = (54) Spaces Req'd.				
(1) Parking Space per 2 employees	[8 employees/2] = (4)				
(80) Total Spaces Required					
REQUIRED HANDICAPPED SPACES	(1) Space per 25 Regular Spaces = (4) Spaces Req'd				
PARKING SPACES PROVIDED:	(76) REGULAR (10'x20')				
	(4) HANDICAPPED (12'x20')				
	(80) Total Spaces Provided				
LOT 2					
COMMERCIAL/RETAIL= 7,252 sf					
(1) Parking Space per 200 sf	[7,252/200] = (36) Spaces Req'd.				
REQUIRED HANDICAPPED SPACES	(1) Space per 25 Regular Spaces = (3) Spaces Req'd				
PARKING SPACES PROVIDED:	(53) REGULAR (10'x20')				
	(3) HANDICAPPED (12'x20')				
	(56) Total Spaces Provided				
LOT 3					
COMMERCIAL/RETAIL= 7,154 sf					
(1) Parking Space per 200 sf	[7,154/200] = (36) Spaces Req'd.				
REQUIRED HANDICAPPED SPACES	(1) Space per 25 Regular Spaces = (3) Spaces Req'd				
PARKING SPACES PROVIDED:	(53) REGULAR (10'x20')				
	(3) HANDICAPPED (12'x20')				
	(56) Total Spaces Provided				
LOT 4					
COMMERCIAL/RETAIL= 7,400 sf					
(1) Parking Space per 200 sf	[7,400/200] = (37) Spaces Req'd.				
REQUIRED HANDICAPPED SPACES	(1) Space per 25 Regular Spaces = (2) Spaces Req'd				
PARKING SPACES PROVIDED:	(41) REGULAR (10'x20')				
	(2) HANDICAPPED (12'x20')				
	(43) 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".
- 4) NO SITE LIGHTING PROPOSED.

NOTE:

1. DIMENSIONS ARE TO FACE OF CURB.

PROPERTY DESCRIPTION

LOTS 1-4 OF "HANCOCK TOWNE CENTRE" AS RECORDED IN PLAT BOOK 60, PAGES 86 & 87, LAKE COUNTY PUBLIC RECORDS CONTAINING 4.50± ACRES MORE OR LESS AND BEING SUBJECT TO RESTRICTIONS, RIGHTS-OF-WAY AND EASEMENTS OF RECORD.

NO.	DATE	DESCRIPTION
1	03/20/07	Revised per City comments

Florida
Geodetic, LLC
737 West Montrose Street
Clermont, FL 34711
(352) 394-3000
Fax (352) 394-1805

ENGINEERS & LAND PLANNERS
73 WEST MONTROSE ST. CLERMONT, FLORIDA 34711
(352) 394-5756
CAP. 6574

MASTER SITE/GEOMETRY PLAN
Lots 1-4 - Hancock Towne Centre
Sec. 26, Twp. 26S, Rge. 26E, City of Clermont, Lake County, FL.
OWNER/DEVELOPER
Woody & Wanda's Land Development, LLC
11740 Osprey Pointe Boulevard, Clermont, FL, 34711

JOB NO. 06-014
DATE February 2007
DES. BY: RMC/ES
DWN. BY: ES
CHK'D BY: RMC
APP'D BY: RMC
SHEET 4 OF 14

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

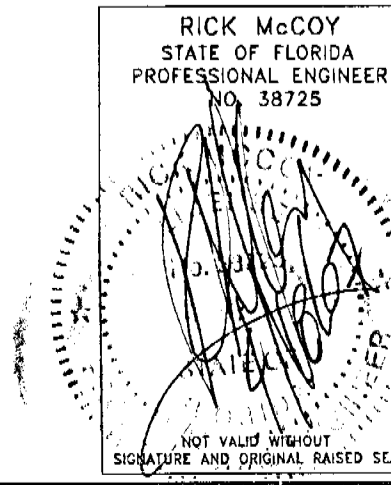
LINE TABLE

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	5.36'

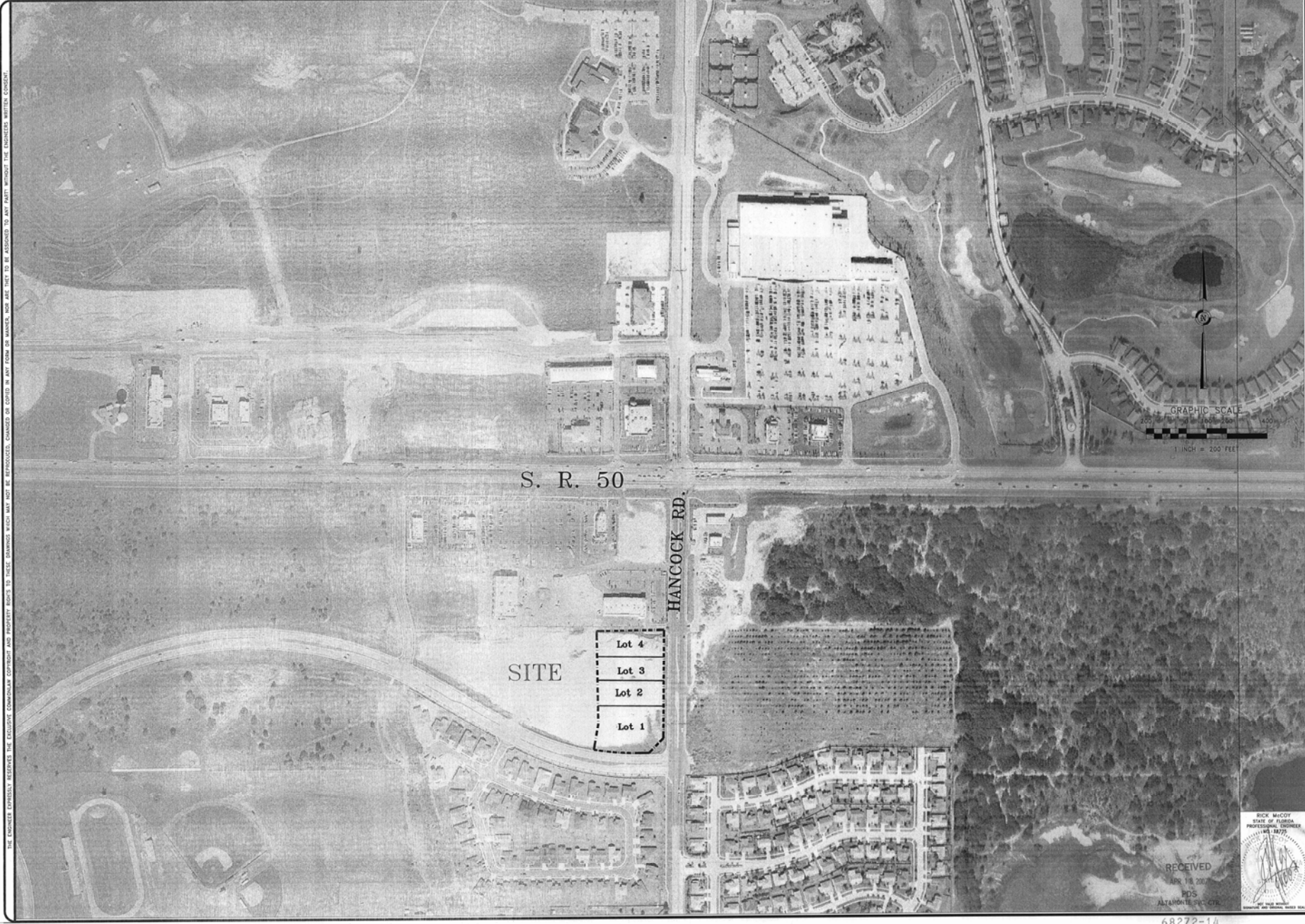
PROPOSED LAND USE SUMMARY

DESCRIPTION:	LOT 1		LOT 2		LOT 3		LOT 4		TOTALS		
	Area S.F.	Area AC.	Area S.F.	Area AC.	Area S.F.	Area AC.	Area S.F.	Area AC.	Area S.F.	Area AC.	%
BUILDING AREA	9,122sf	0.209 ac.	7,252sf	0.166 ac.	7,154sf	0.164 ac.	7,400sf	0.170 ac.	30,928sf	0.710ac.	15.77%
SIDEWALK AREA	1,392sf	0.032 ac.	1,487sf	0.034 ac.	1,371sf	0.031 ac.	2,227sf	0.149 ac.	6,477sf	0.149ac.	3.30%
PARKING AREA	38,289sf	0.879 ac.	20,813sf	0.478 ac.	20,827sf	0.478 ac.	18,223sf	0.418 ac.	98,152sf	2.253ac.	50.04%
TOTAL IMPERVIOUS AREA	48,803sf	1.120 ac.	29,552sf	0.678 ac.	29,746sf	0.674 ac.	27,850sf	0.639 ac.	135,957sf	3.112ac.	69.11%
GREEN SPACE	24,740sf	0.568 ac.	10,509sf	0.241 ac.	10,172sf	0.243 ac.	14,764sf	0.339 ac.	60,379sf	1.391ac.	30.89%
TOTAL LOT AREA	73,543sf	1.688 ac.	40,061sf	0.920 ac.	39,918sf	0.916 ac.	42,614sf	0.978 ac.	196,136sf	4.503 ac.	100.00%

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State BIM B-01 civil infrastructure 03 rev01.dwg, The Bar H B-01-01-01 BIM Template



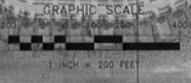
THE ENGINEER EXPLICITLY RESERVES THE EXCLUSIVE CONSULTING CONTRACT AND PROPERTY RIGHTS TO THESE DRAWINGS WHICH MAY NOT BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER, NOW OR IN THE FUTURE, WITHOUT THE ENGINEER'S WRITTEN CONSENT.

S. R. 50

HANCOCK RD.

SITE

- Lot 4
- Lot 3
- Lot 2
- Lot 1



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ALTAIR ENGINEERING, INC.



JOB NO. 06-012
DATE NOV. 2006
DES. BY: SMC/ES
DRA. BY: JG
CHK'D BY: SMC
APP'D BY: RMC
SHEET 5 OF 14

AERIAL OVERLAY

Lots 1-4 - Hancock Towne Centre
 Sec. 28; Twp. 22S; Rge. 20E; City of Clermont, Lake County, FL
 Woody & Wallace Land Development, LLC
 11740 Osprey Pointe Boulevard, Clermont, FL, 34711

MC & A
ENGINEERS & LAND PLANNERS
 700 WEST MONTROSE ST. CLEMONT, FLORIDA 34711
 TEL: (352) 344-0100 FAX: (352) 344-0100

Florida Geodetic, LLC
 700 West Montrose Street
 Clermont, FL 34711
 Tel: (352) 344-0100
 Fax: (352) 344-1500

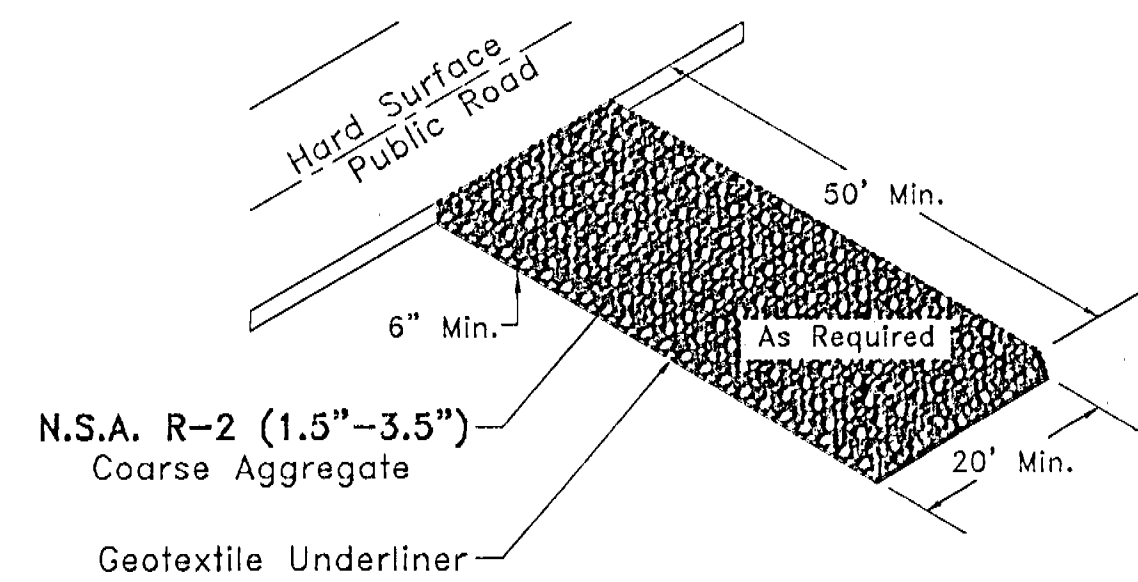
NO. DATE DESCRIPTION

NO.	DATE	DESCRIPTION
1	11/20/06	Final Aerial Overlay

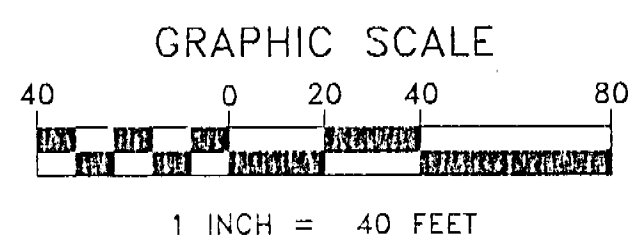
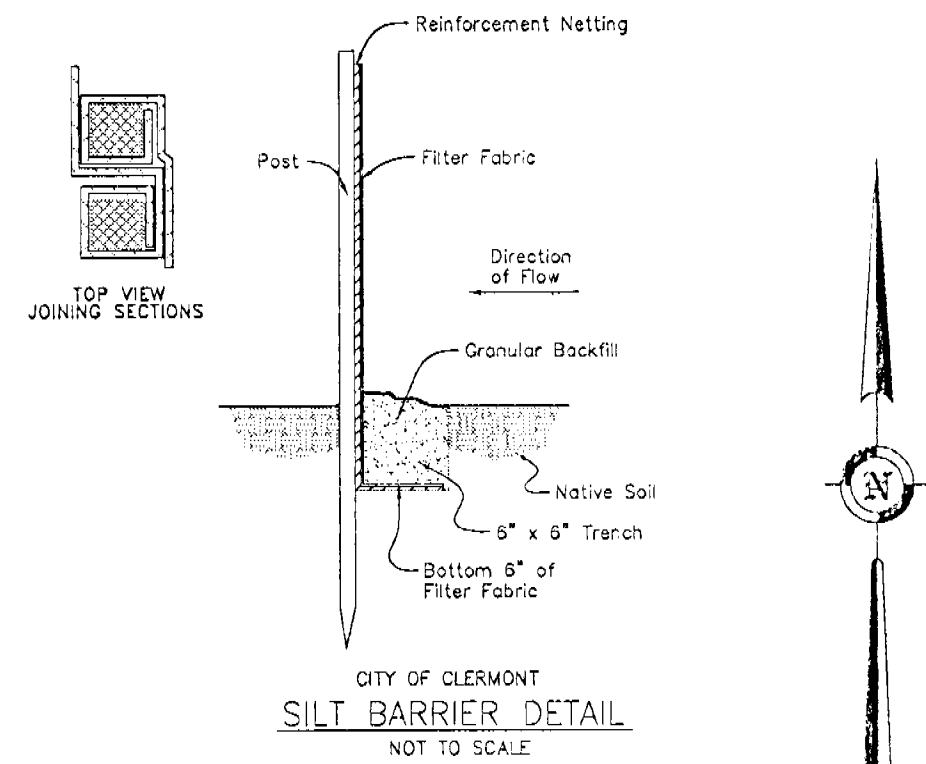
REVISIONS

CONSTRUCTION EXIT TEMPORARY

A STONE PAD AT SITE EXIT TO REMOVE MUD FROM TIRES

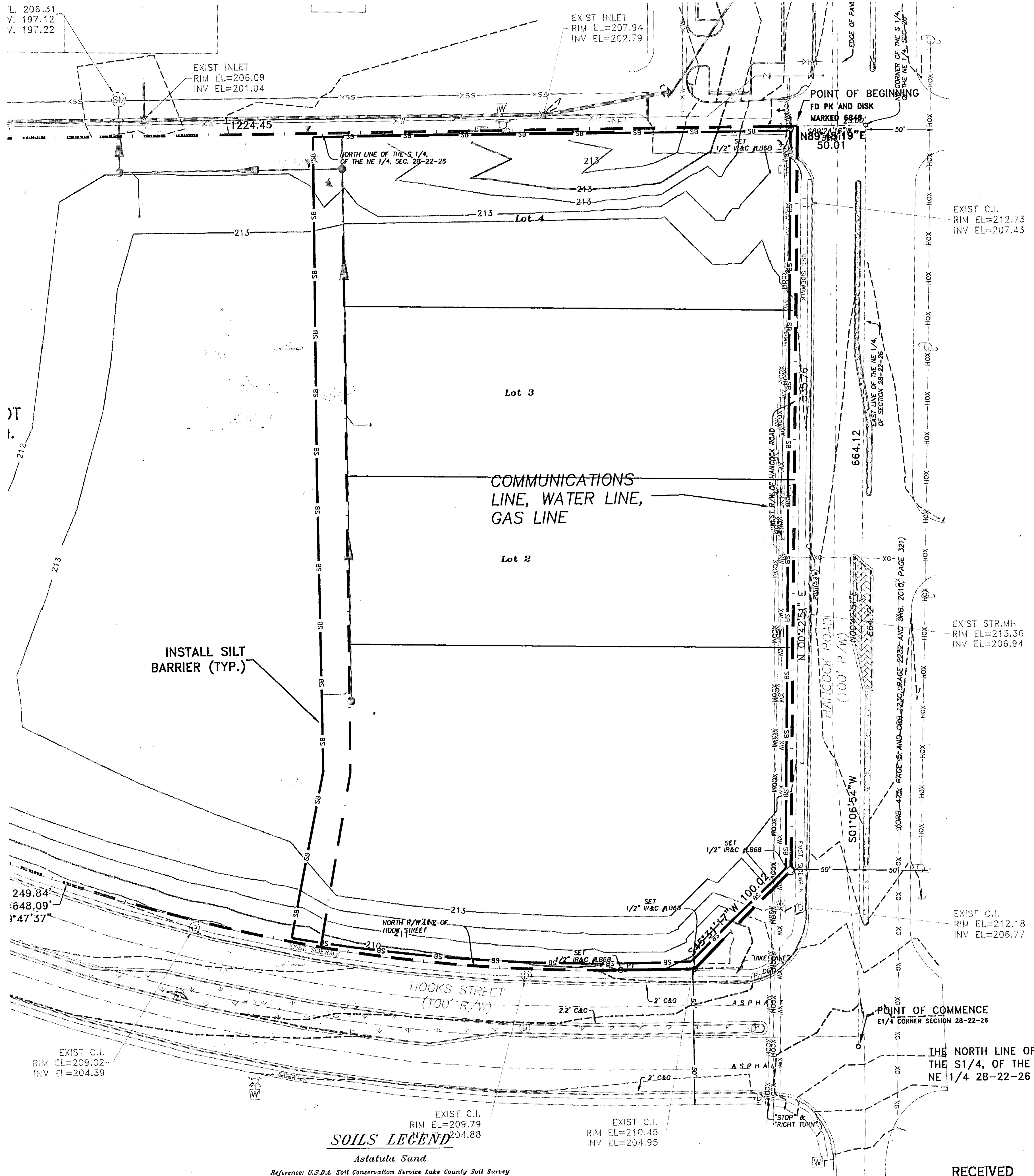


- IF NECESSARY, INCLUDE WASHING
- MAY REQUIRE PERIODIC TOP DRESSING WITH 2" STONE
- MAINTAIN IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC ROADS.
- USE #200 ROAD STABILIZATION FABRIC AS A BASE UNDER THE STONE.
- PAD WIDTH, AT A MINIMUM, SHOULD EQUAL FULL WIDTH OF ALL POINTS OF VEHICULAR EGRESS, BUT NOT LESS THAN 20' WIDE.



EROSION CONTROL PLAN:
THE CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE PLAN SHALL APPLY BEST MANAGEMENT PRACTICES DURING CONSTRUCTION TO MINIMIZE EROSION AND SEDIMENTATION AND TO PROPERLY MANAGE RUNOFF OF STORMWATER. THE CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO RESTRICT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF CONSTRUCTION. THESE CONDITIONS SHALL BE SATISFIED FOR THE ENTIRE CONSTRUCTION PERIOD.

- 1) ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENTATION AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.
- 2) PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF STORMWATER INLETS, SEDIMENT BASINS, SLOPE DRAINS, GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION.
- 3) THE PLAN SHALL APPLY AND BE IMPLEMENTED THROUGHOUT THE LIFE OF THE CONSTRUCTION.
- 4) WHEN PRACTICAL, THE RETENTION AREAS SHALL BE COMPLETED AND STABILIZED OR SODDED PRIOR TO ANY EXCAVATION.
- 5) CONTRACTOR SHALL PROVIDE SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION.
- 6) IN THE EVENT OF STORMWATER CONVEYANCE SYSTEM SEDIMENTATION DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL TAKE SUCH MEASURES AS REQUIRED TO MAINTAIN THE DIMENSIONS, ELEVATIONS, VOLUMES AND SOIL PERMEABILITY CHARACTERISTICS OF SAID SYSTEM.
- 7) NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT STORMWATER OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION SYSTEM.
- 8) AREAS OPENED BY CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED, AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. THE MINIMUM RATE OF SEEDING SHALL BE 30 LB. PER ACRE.
- 9) ANY SEDIMENT ACCUMULATIONS IN THE DRAINAGE SYSTEM SHALL BE REMOVED AND THE SYSTEM RESTORED TO DESIGN SPECIFICATIONS PRIOR TO THE COMPLETION AND FINAL APPROVAL OF THE PROJECT.
- 10) UPON COMPLETION OF CONSTRUCTION AND COMPLETED STABILIZATION OF POTENTIAL EROSION AREAS, THE CONTRACTOR SHALL REMOVE SEDIMENTATION CONTROL MEASURES AND CLEAN AND REPAIR ANY AREAS AFFECTED BY THE CONSTRUCTION ACTIVITIES.
- 11) TO CONTROL SURFACE AND AIR MOVEMENT OF DUST ON THE CONSTRUCTION SITE THE SITE SHALL BE SPRINKLED WITH WATER UNTIL SURFACE IS WET. REPEAT AS NEEDED.



SOILS LEGEND

Astatula Sand
Reference: U.S.D.A. Soil Conservation Service Lake County Soil Survey

NO.	DATE	DESCRIPTION
1	02/20/07	Revised per City comments

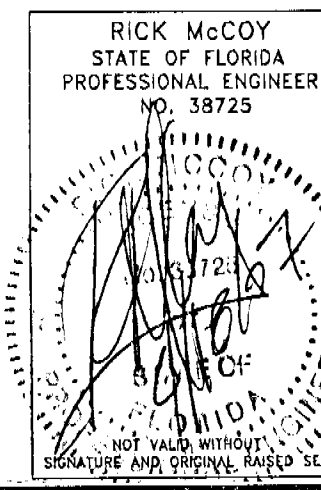
Florida Geotectic, LLC
737 West Montrose Street
Clermont, FL 34711
(352) 394-3000
Fax (352) 394-1305

McCOY & ASSOCIATES
ENGINEERS & LAND PLANNERS
713 WEST MONTROSE ST. CLERMONT, FLORIDA 34711
(352) 394-5756
Clermont, FL 34711
Fax (352) 394-5756
Clermont, FL 34711

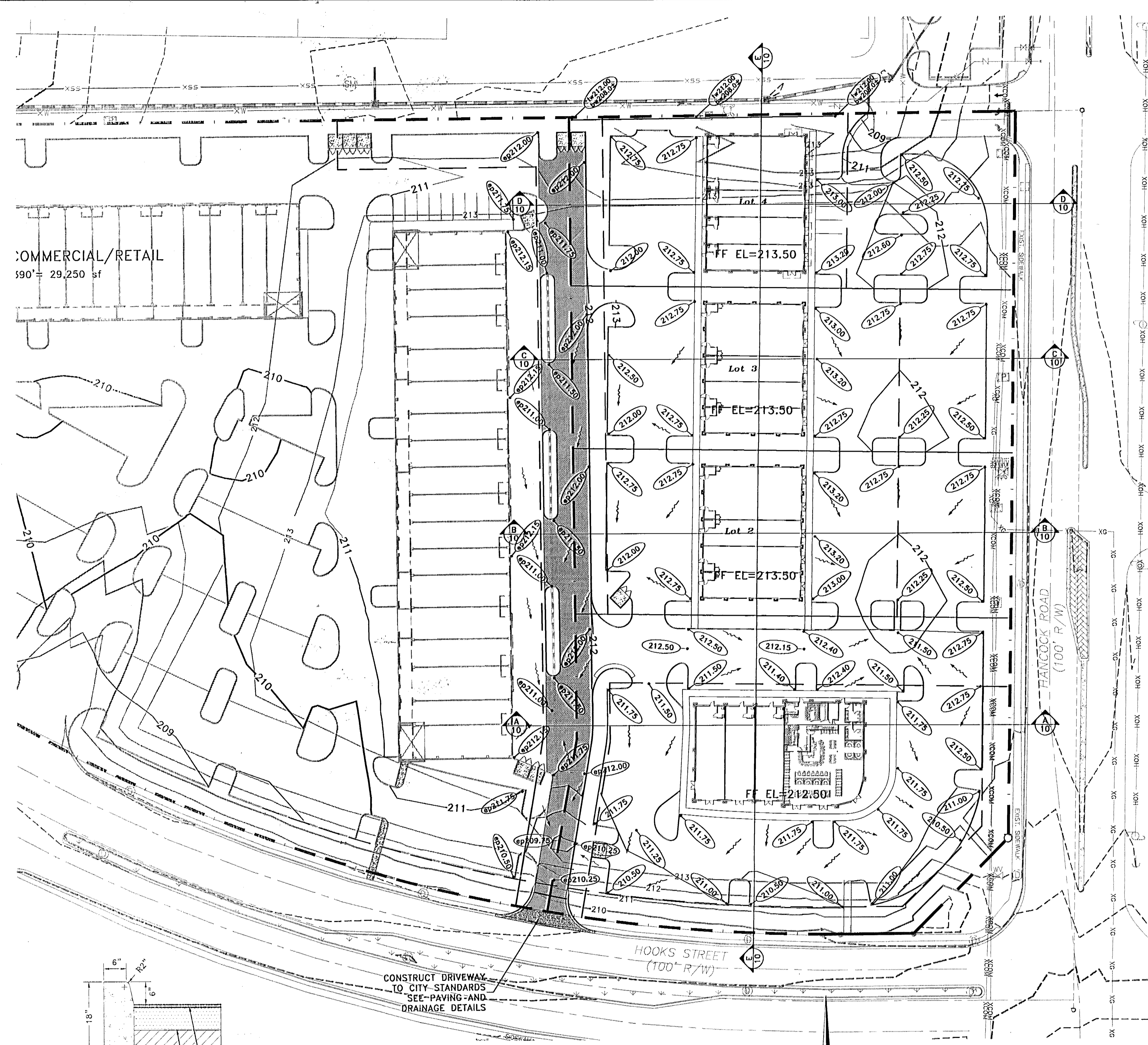
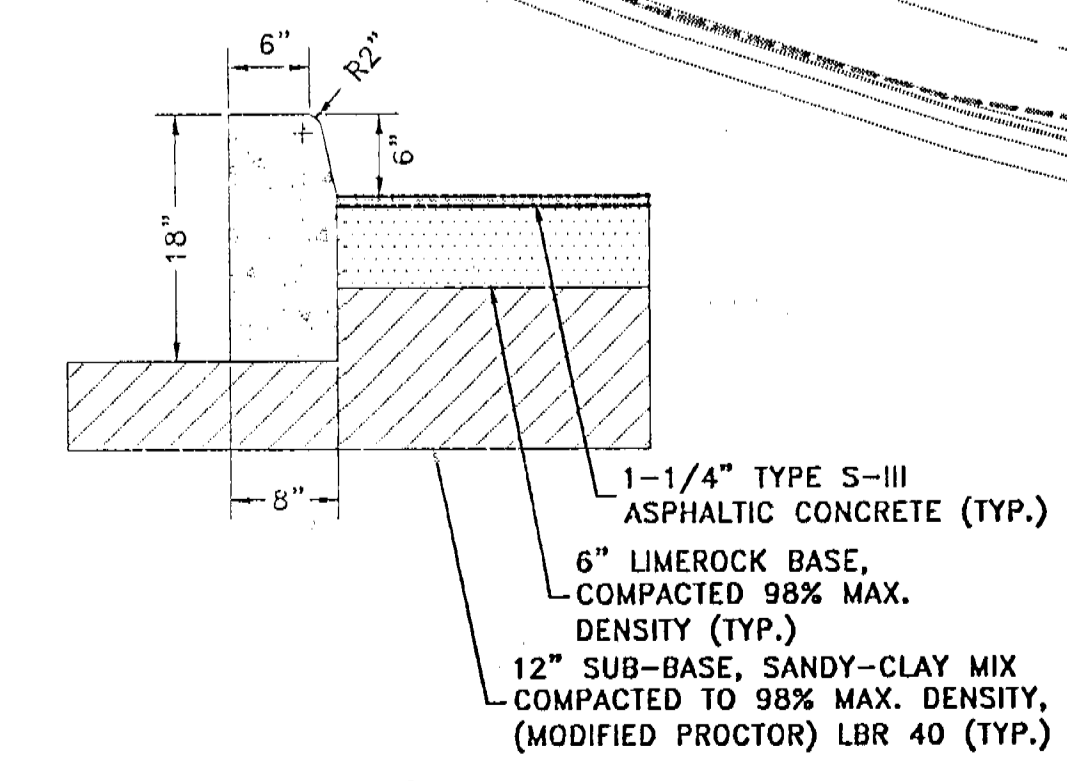
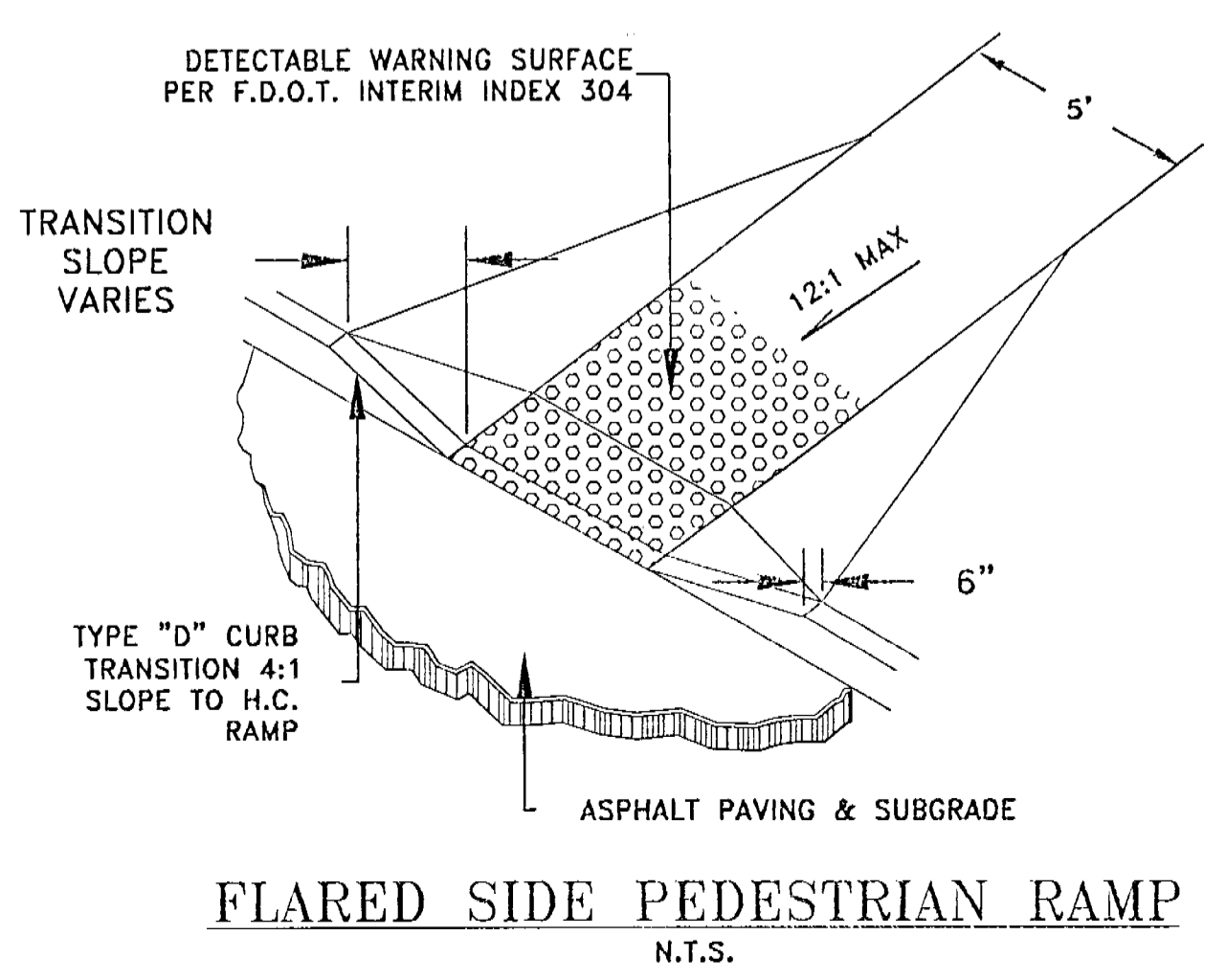
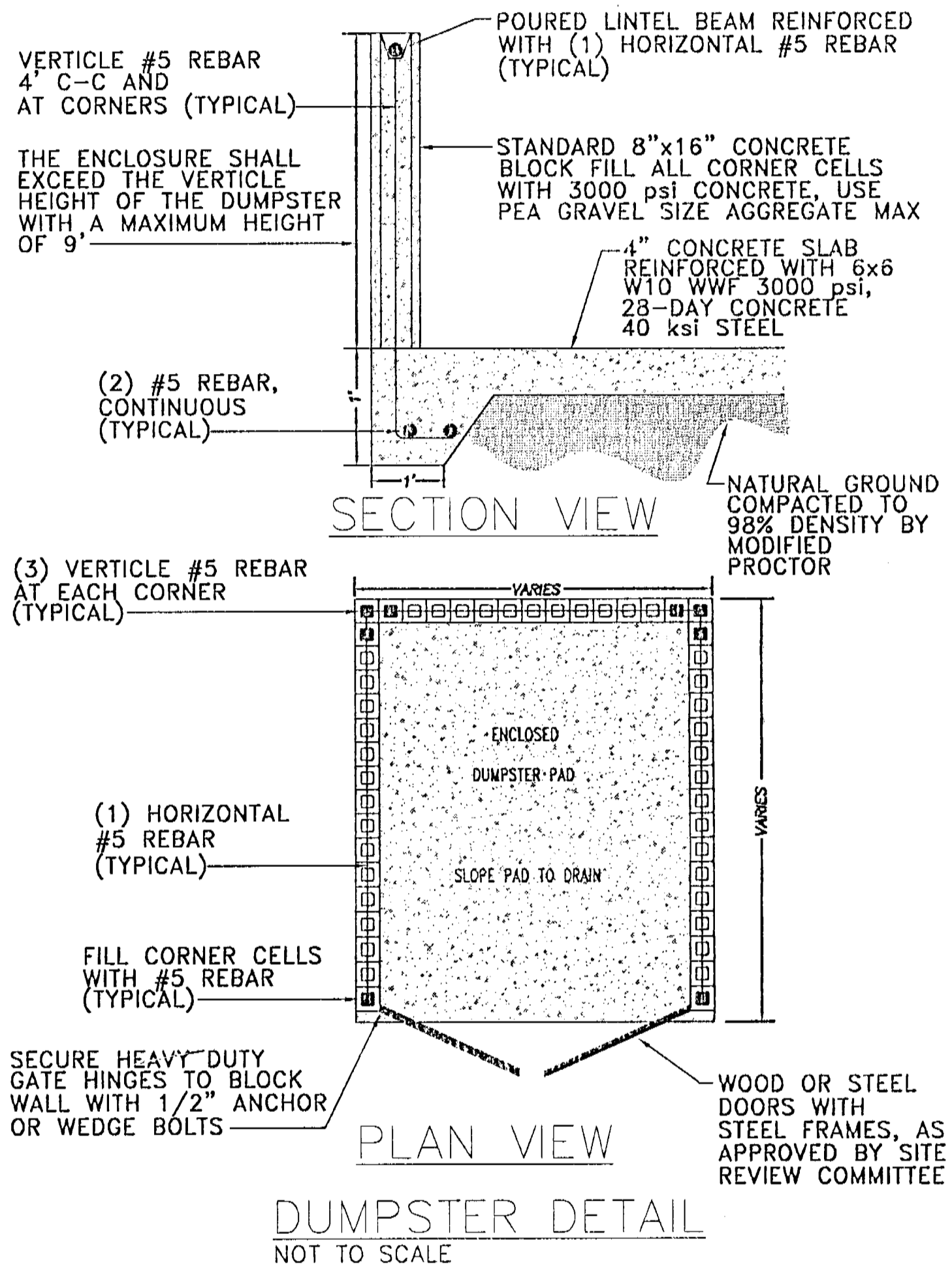
PRE-DEVELOPMENT SITE PLAN
Lots 1-4 - Hancock Towne Centre
Sec. 28, Twp. 28S, Rge. 28E, City of Clermont, Lake County, FL
CITY OF CLERMONT
Woody & Watkins Development, LLC
11740 Osprey Pointe Boulevard, Clermont, FL, 34711

JOB NO.	06-014
DATE	February 2007
DES. BY:	RMG/ES
DWN. BY:	ES
CHK'D BY:	RMG
APP'D BY:	RMG
SHEET	6 OF 14

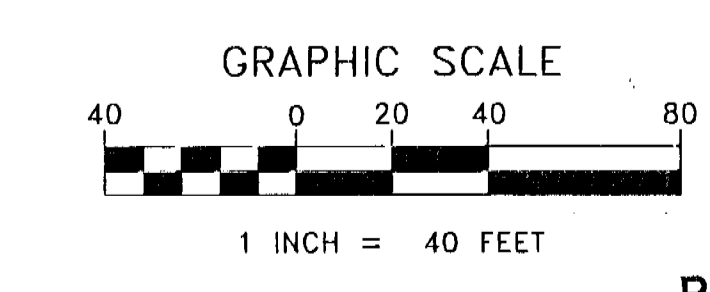
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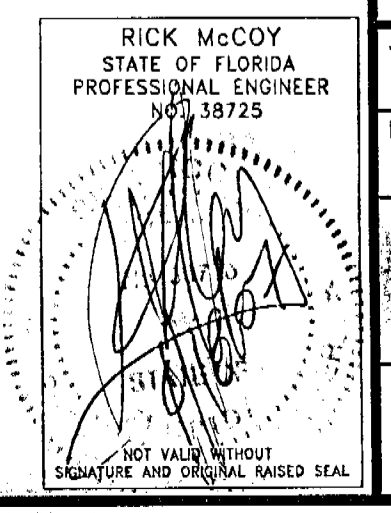
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Stormwater discharge permitted by
Lake County School Board. SJRWMD
Permit No. 4-069-68272-3, High
School AAA, Condition no. 25.



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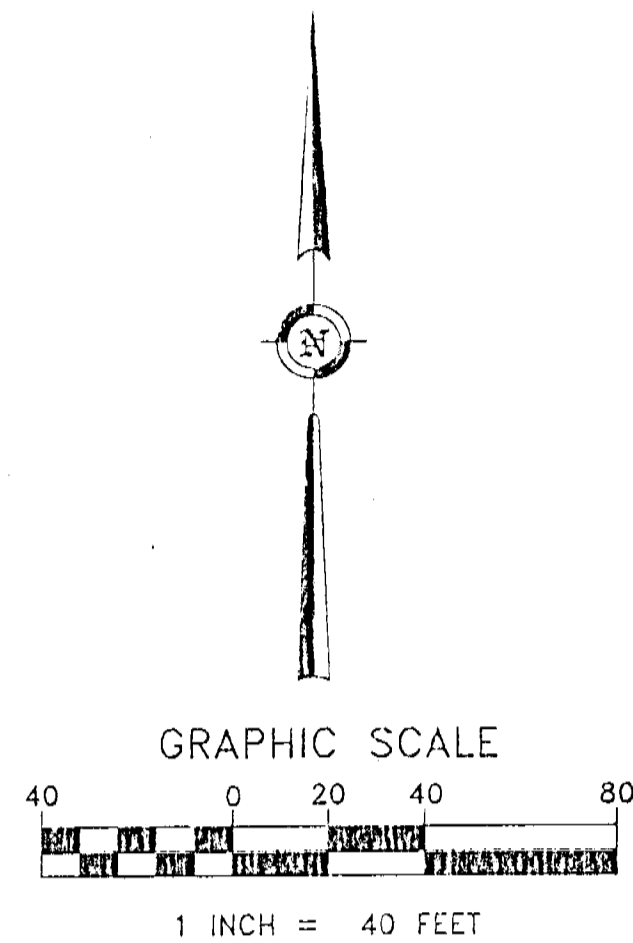


NO.	DATE	DESCRIPTION
1	03/20/07	Revised per City comments

Florida, LLC Geodetic, LLC 737 West Montrose Street Clermont, FL 34711 (852) 394-3000 Fax (352) 394-1305	
McCOY & ASSOCIATES ENGINEERS & LAND PLANNERS 713 WEST MONTROSE ST. CLERMONT, FLORIDA 34711 (852) 394-5756 FAX (852) 394-5756 CAR: 8374	
GRADING PLAN Lots 1-4 - 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	
JOB NO.	06-014
DATE	February 2007
DES. BY:	RMc/ES
DWN. BY:	ES
CHECK'D BY:	RMc
APP'D BY:	RMc
SHEET	7 OF 14

P:\Jobs 2000 20-014 civil 10-014 SP.dwg, Wed Apr 18 07:21:07 2007, Sampson

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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
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
S22	DBI 120	24"/RCP	204.08	95LF	0.49%	204.55	DBI 121	D	211.00
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%	204.61	CI 200	P5	212.00
S26	DBI 122	18"/RCP	206.50	46LF	1.63%	204.61	CI 201	P5	212.00
S27	DBI 121	18"/RCP	206.50	38LF	1.97%	203.90	CI 202	P5	212.00
S28	DBI 119	24"/RCP	202.95	30LF	0.50%	203.09	CI 203	P5	211.75
S29	CI 203	24"/RCP	203.09	87LF	0.50%	203.35	CI 204	P5	210.50
S30	CI 204	24"/RCP	203.35	108LF	0.50%	203.89	CI 205	P5	210.50
S31	CI 205	24"/RCP	203.89	164LF	0.50%	204.71	CI 206	P5	210.50
S32	CI 206	18"/RCP	205.21	146LF	0.50%	205.94	DBI 207	D	211.50
S33	DBI 207	18"/RCP	205.94	140LF	0.50%	206.64	DBI 208	D	212.25
S34	DBI 208	18"/RCP	206.64	166LF	0.50%	207.47	DBI 209	D	212.25



EXIST C.I.
RIM EL=212.73
INV EL=207.43

EXIST STR.MH
RIM EL=213.36
INV EL=206.94

EXIST C.I.
RIM EL=209.02
INV EL=204.39

EXIST C.I.
RIM EL=209.79
INV EL=204.88

EXIST C.I.
RIM EL=210.45
INV EL=204.95

EXIST C.I.
RIM EL=212.18
INV EL=206.77

NO.	DATE	DESCRIPTION
1	03/20/07	Revised per City comments

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

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

DRAINAGE PLAN
Lots 1-4 - 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

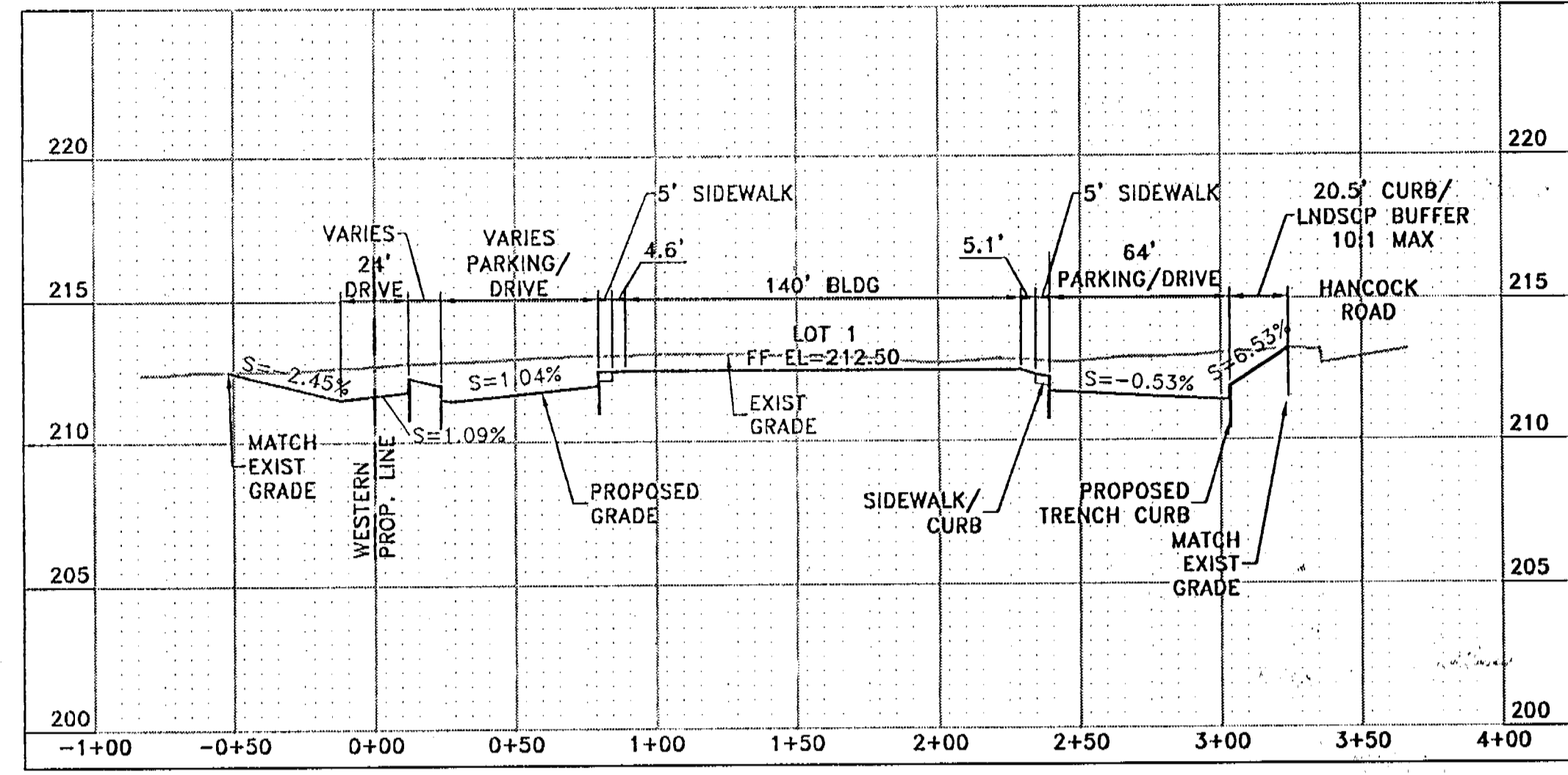
RICK McCOY
STATE OF FLORIDA
PROFESSIONAL ENGINEER
NO. 38725

JOB NO.	06-014
DATE	February 2007
DES. BY:	RMc/ES
DWN. BY:	ES
CHK'D BY:	RMc
APP'D BY:	RMc
SHEET	8 OF 14

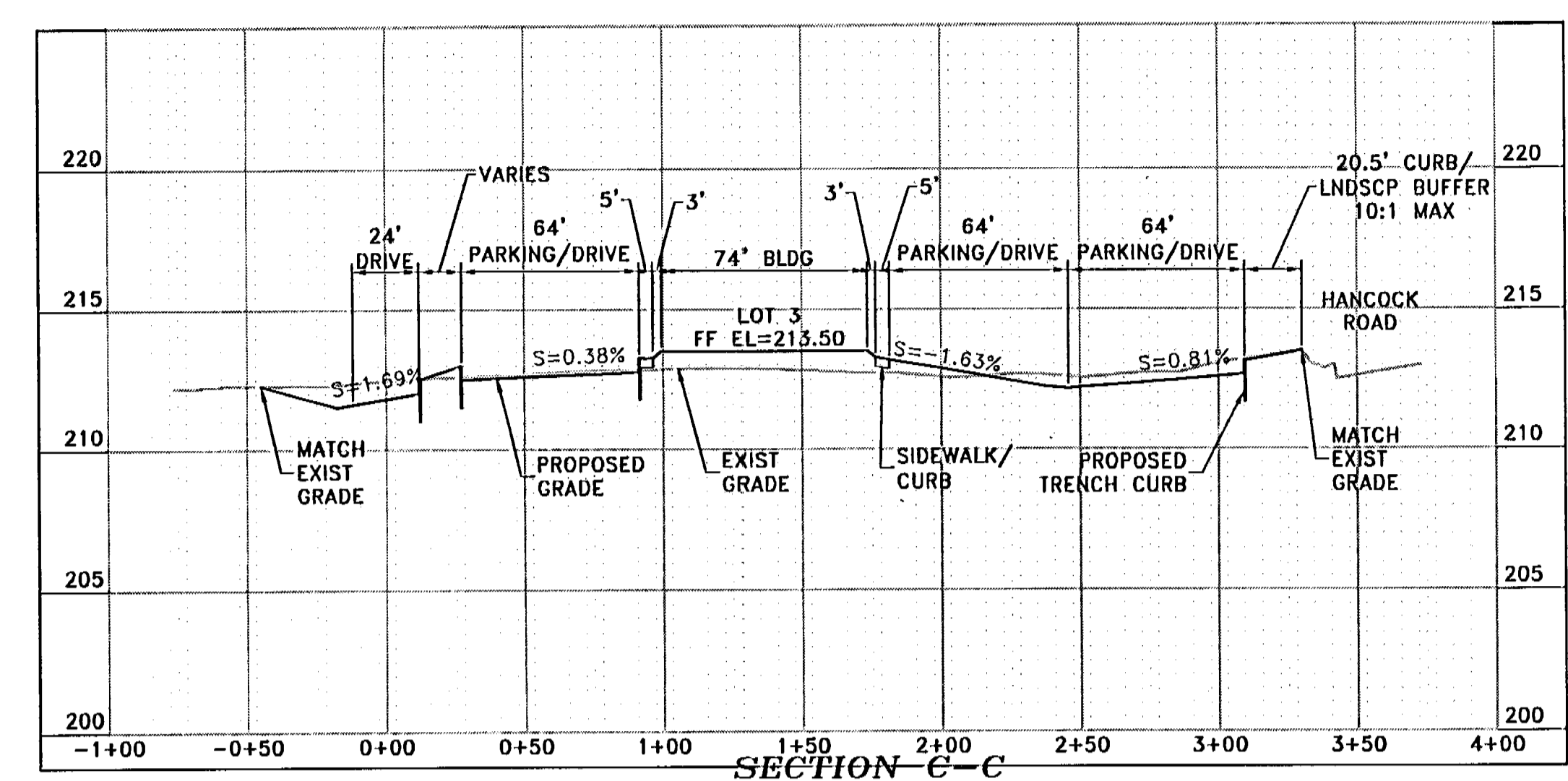
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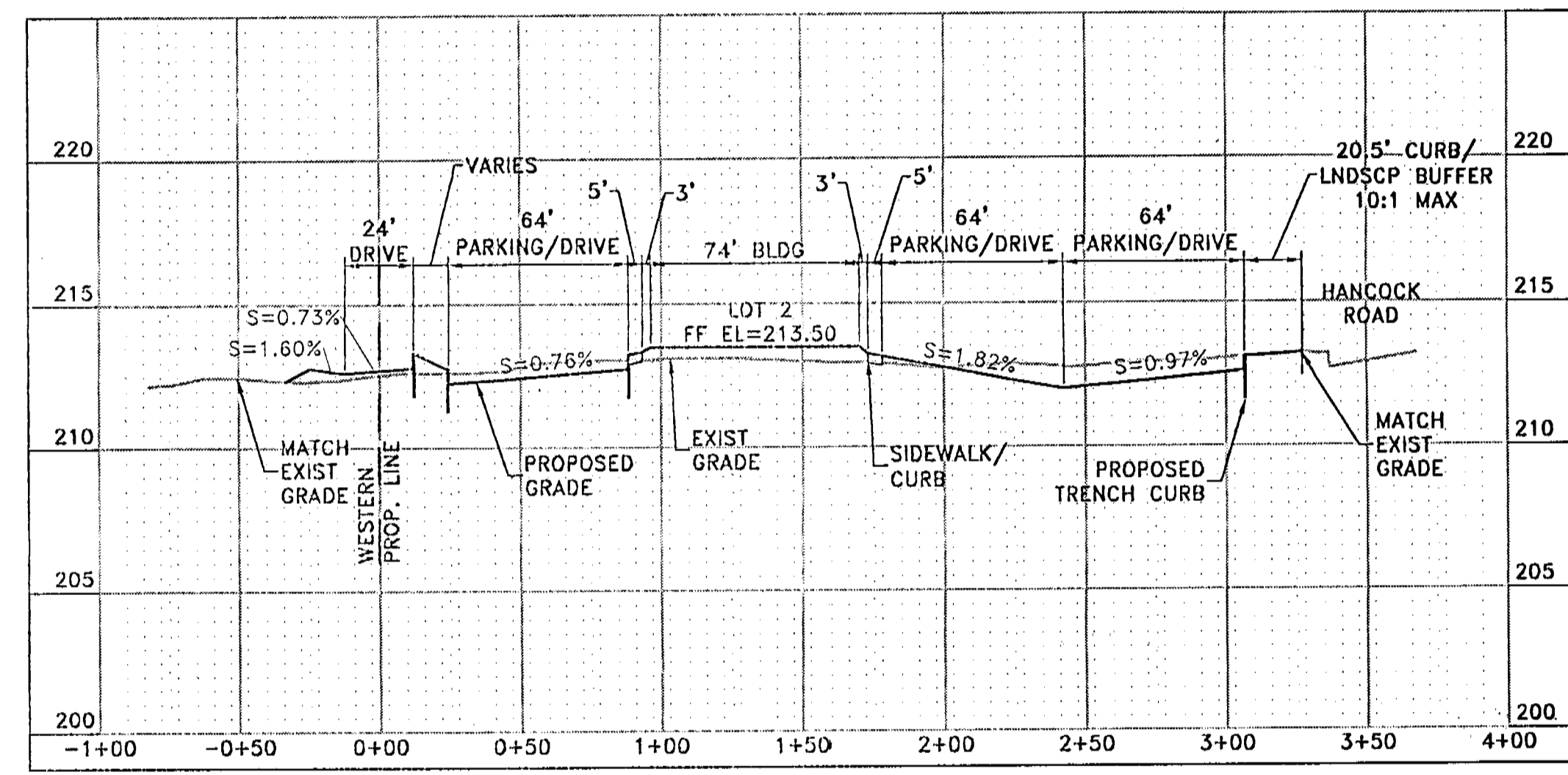
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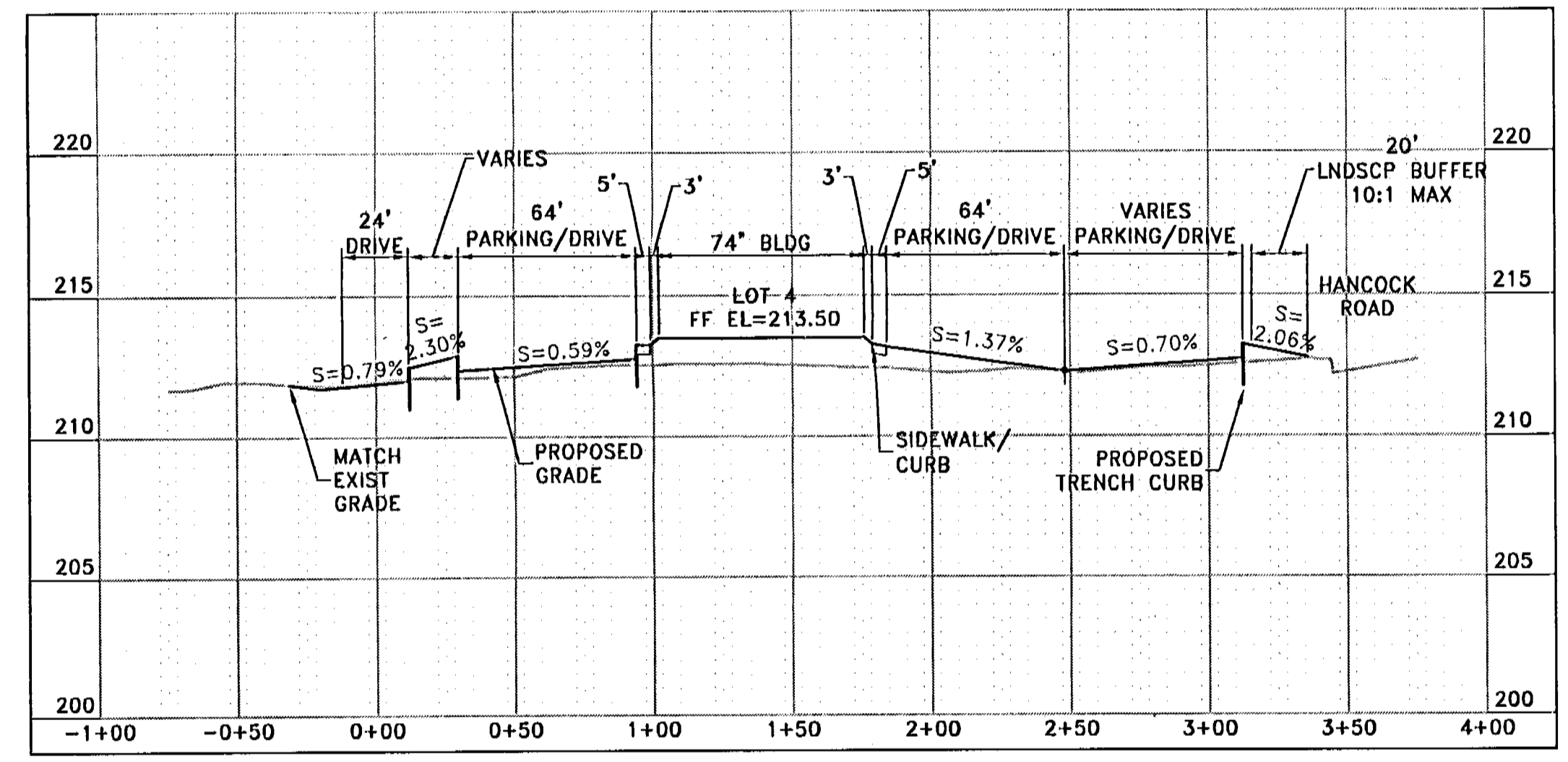
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V:1"= 5'



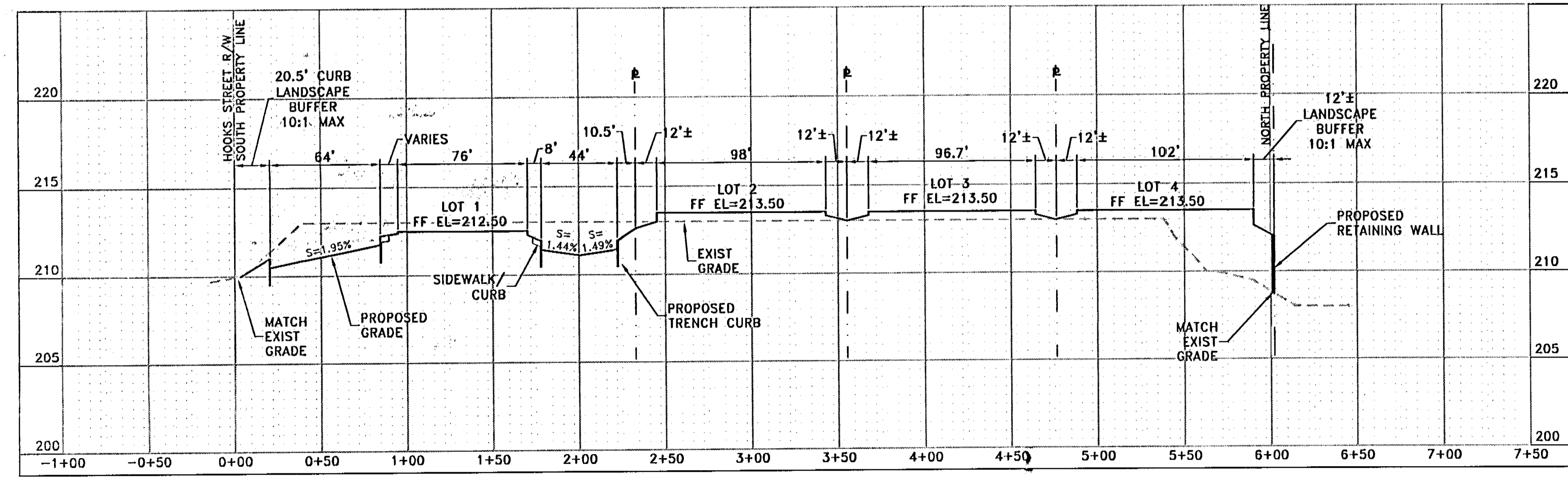
SECTION C-C
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V:1"= 5'



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



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



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

NO.	DATE	DESCRIPTION
1	03/20/07	Revised per City comments

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

McCOY & ASSOCIATES
ENGINEERS & LAND PLANNERS
713 WEST MONTROSE ST. CLERMONT, FLORIDA 34711
(852) 394-5756
FAX (852) 394-5758
CAP. 8374

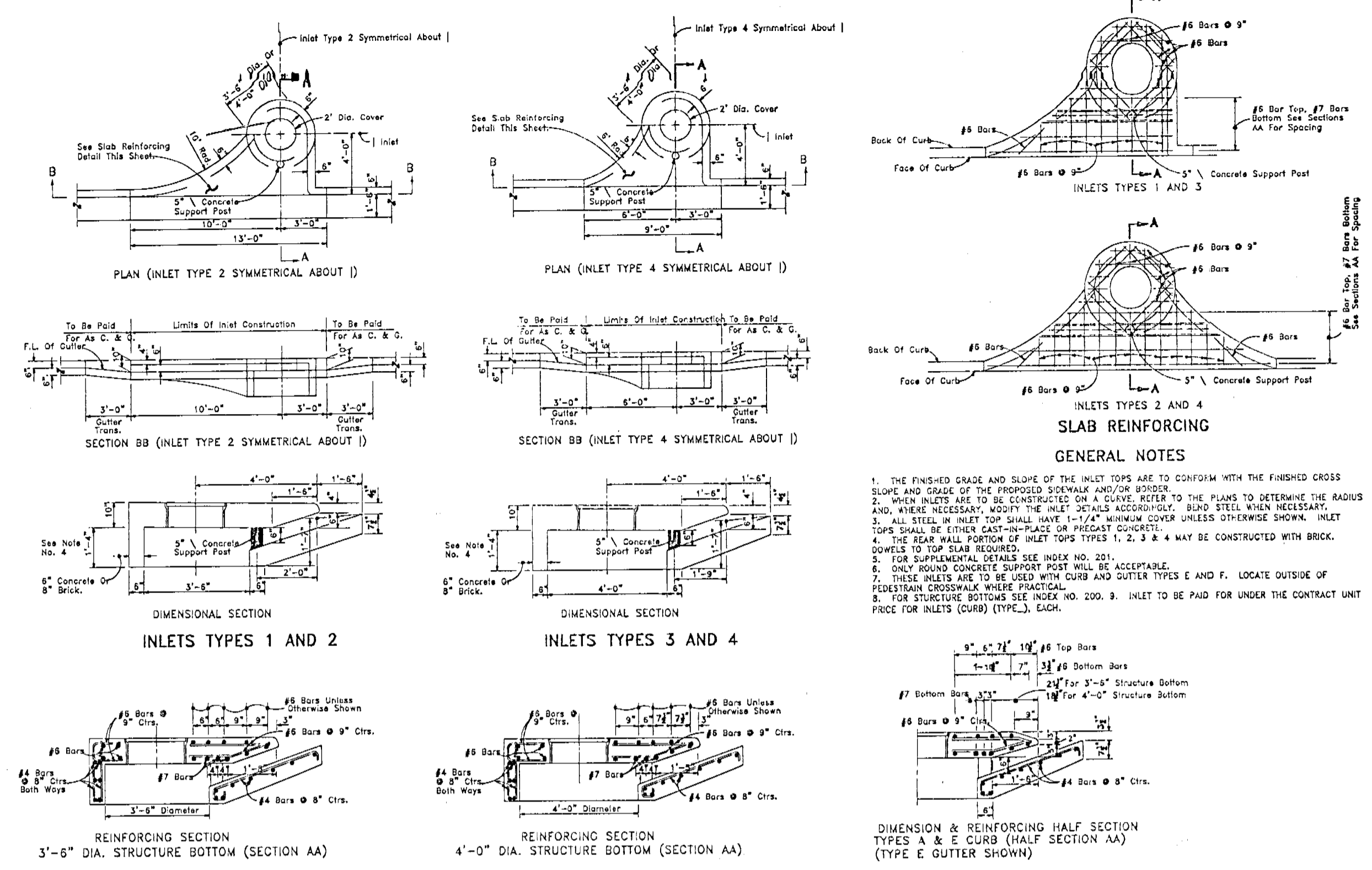
SITE CROSS SECTIONS
Lots 1-4 - Hancock Towne Centre
Sec. 28, Twp. 25S, Rge. 28E, City of Clermont, Lake County, FL
OWNER/DEVELOPER
Woody & Wallace Land Development, LLC
11740 Osprey Pointe Boulevard, Clermont, FL, 34711

RICK McCOY
STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 38735

JOB NO.	06-014
DATE	February 2007
DES. BY:	RMC/ES
DWN. BY:	ES
CHK'D BY:	RMC
APP'D BY:	RMC
SHEET	9 of 14

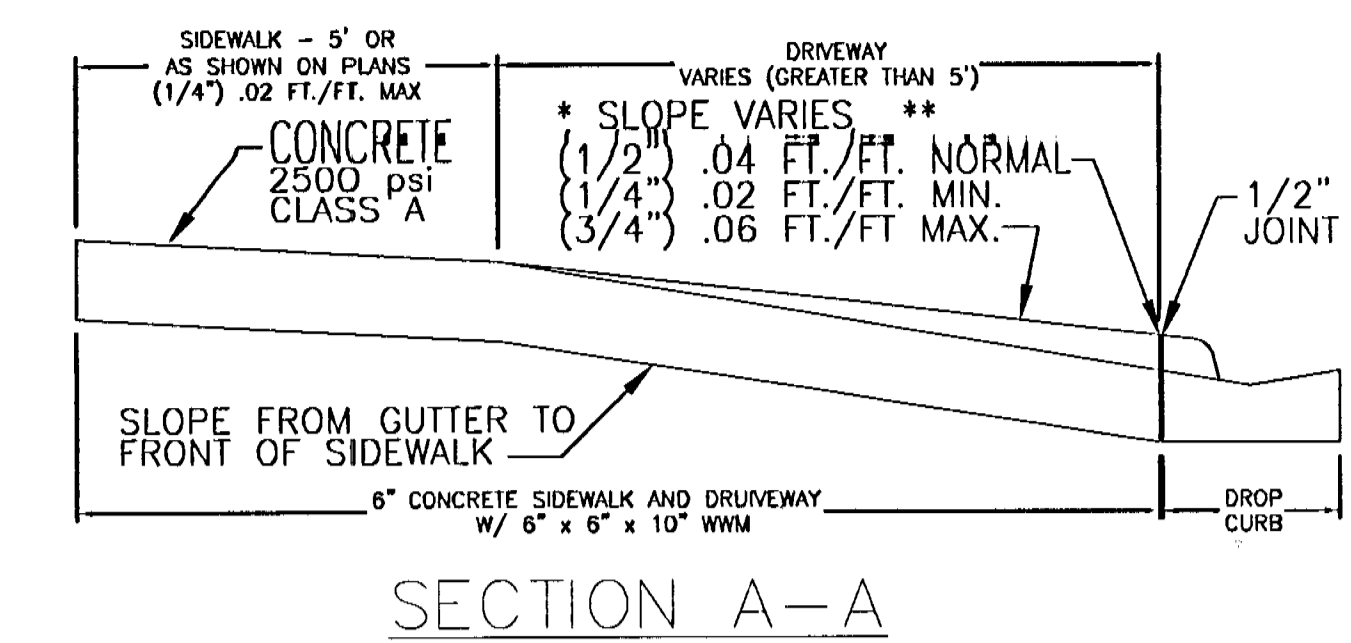
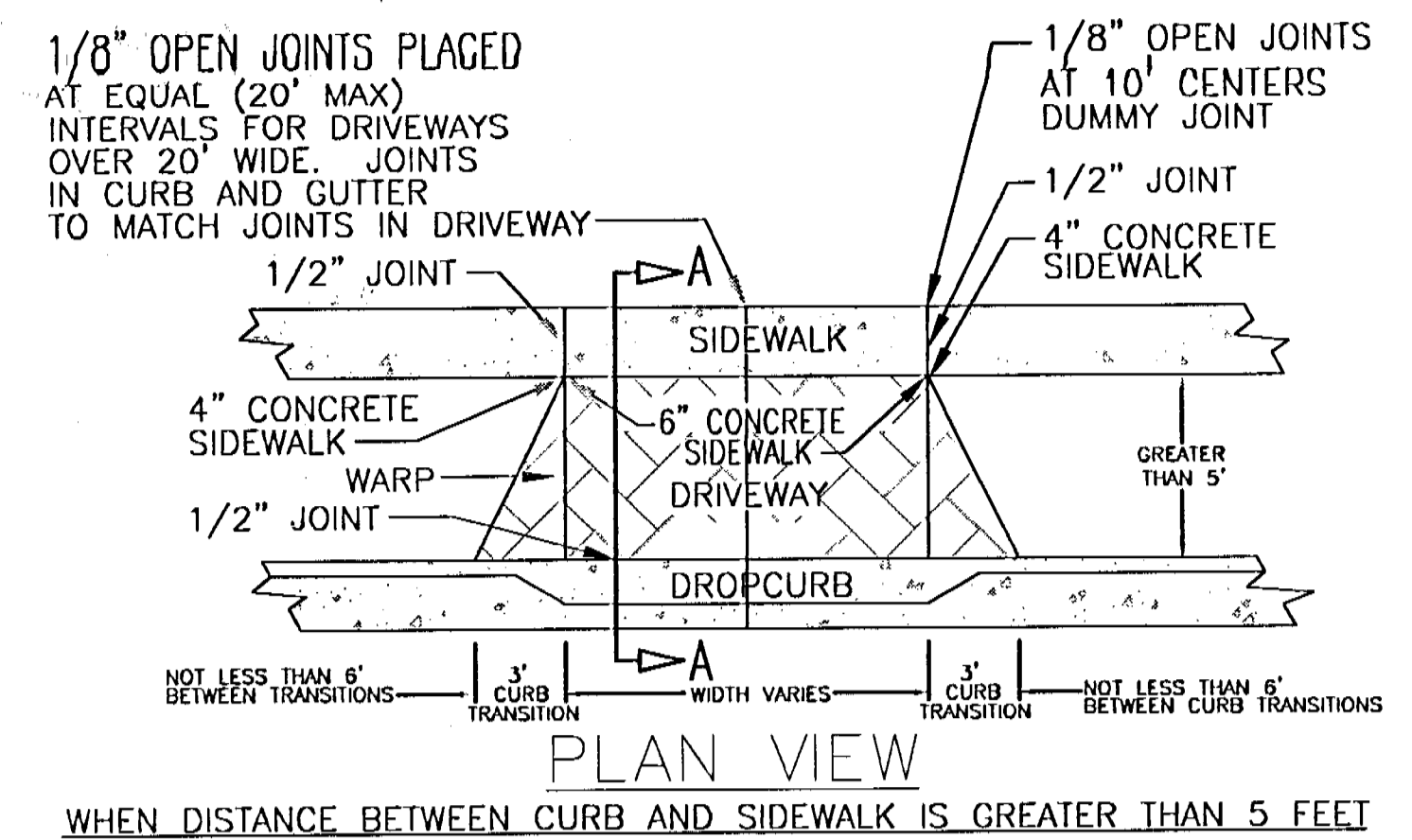
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CURB INLET TOPS

N.T.S.



* SLOPES CAN BE ADJUSTED WITHIN THE RANGES SHOWN TO IMPROVE TIES TO ADJACENT PROPERTY AND ARE TO BE TRANSITIONED TO AVOID DISTORTION TO INCREASE OR DECREASE SLOPE OF DRIVEWAY TO IMPROVE TIES TO SIDEWALK AND GUTTER GRADE. DRIVEWAYS AND SIDEWALKS THROUGH DRIVEWAYS SHALL REQUIRE 6" x 6" REINFORCEMENT WIRE.

CHECK AND VERIFY THESE ITEMS:

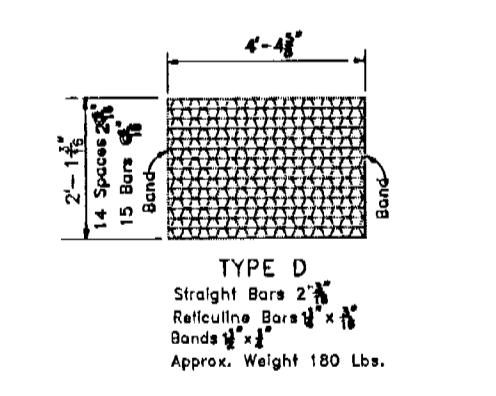
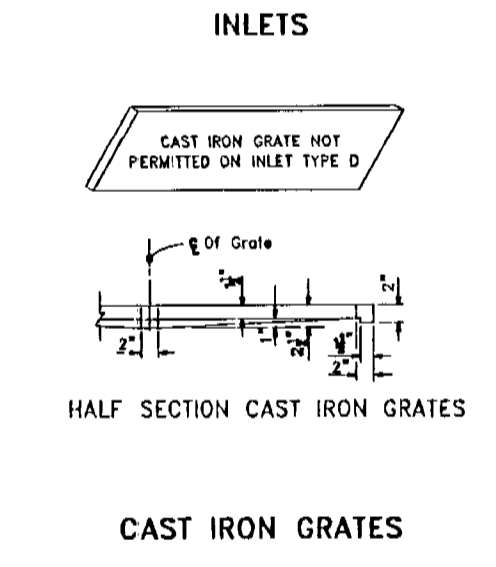
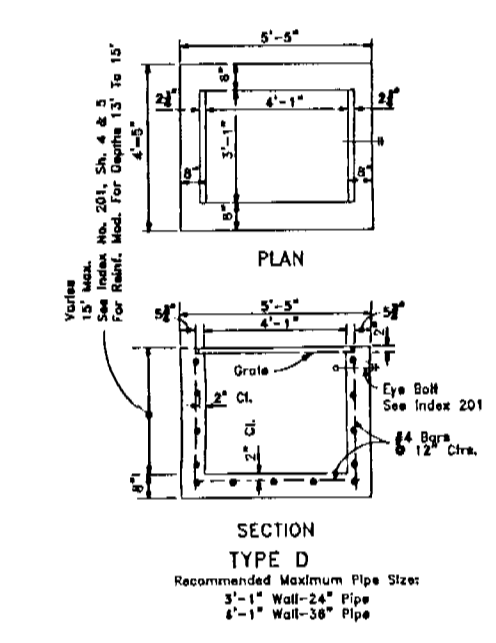
- 6" W/WIRE
- 3" TAPER CUT SQUARE
- 5" SIDEWALK TO R/W

* SLOPE VARIES **

- (1/2") .04 FT./FT. NORMAL
- (1/4") .02 FT./FT. MIN.
- (3/4") .06 FT./FT. MAX.

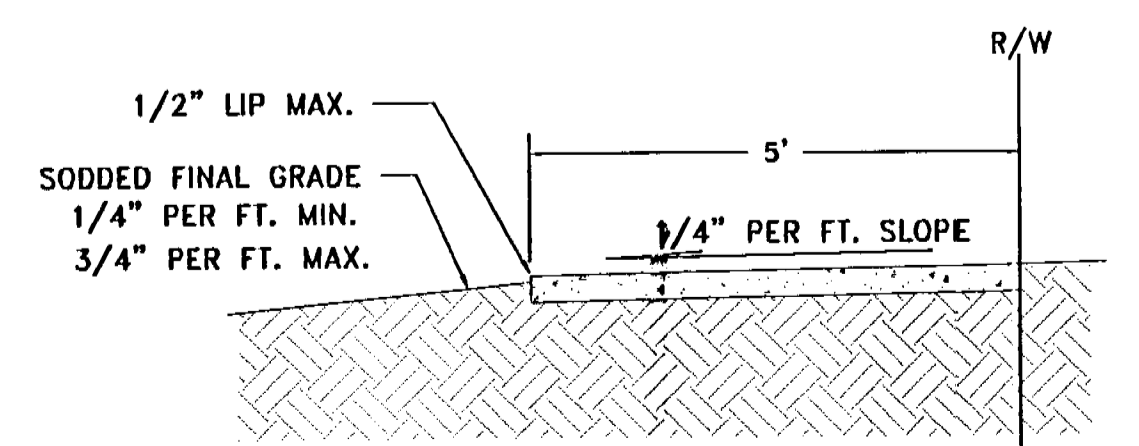
SIDEWALK AND PAVED DRIVEWAY CONSTRUCTION

NOT TO SCALE



DITCH BOTTOM INLETS

N.T.S.



TYPICAL CITY SIDEWALK DETAIL

N.T.S.

4" CONCRETE SIDEWALK
USE 3000 PSI CONCRETE
WITHOUT REINFORCEMENT
PROVIDE 3/4" SAWCUTS
AT 5' CENTERS, TYPICAL
(NO FIBERMESH)

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RICK MCCOY
STATE OF FLORIDA
PROFESSIONAL ENGINEER
NO. 38725

JOB NO. 06-012
DATE MAY 2006
DES. BY: RME/ES
OWN. BY: ES
CHK'D BY: RME
APP'D BY: RME
SHEET 12 OF 14

PAVING AND DRAINAGE DETAILS
Lots 1-4 - 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

McCOY & ASSOCIATES
ENGINEERS & LAND PLANNERS
713 WEST MONTROSE ST. CLERMONT, FLORIDA 34711
(952) 394-5756
FAX (952) 394-5756
CALIF. 8374

Florida Geodetic, LLC
737 West Montrose Street
Clermont, FL 34711
(352) 394-3000
Fax (352) 394-1805

NO.	DATE	DESCRIPTION

REVISIONS