

GENERAL NOTES:

- TOPOGRAPHICAL AND BOUNDARY DATA PERFORMED BY TAYLOR LAND CONSULTANTS, PLLC. BENCHMARK IS AN IRON PIPE LOCATED AT THE NORTHEAST CORNER OF THE PROPERTY WITH COORDINATES N 742,284.725, E 2,030,635.021. CONTRACTOR IS RESPONSIBLE FOR HIS OWN HORIZONTAL AND VERTICAL CONTROL DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE DEVELOPMENT BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES.
- ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
- ALL STRUCTURAL FILL MATERIAL SHALL BE FREE OF ALL STICKS, ROCKS, AND CLUMPS OF MUD.
- UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN AN APPROVED SOLID WASTE LANDFILL.
- LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE FIELD VERIFIED. CONTACT THE NC ONE CALL CENTER AT LEAST 48 HOURS PRIOR TO DIGGING @ 1.800.632.4949. TAYLOR LAND CONSULTANTS, PLLC HAS ONLY LOCATED THE UTILITIES THAT ARE ABOVE GROUND AT THE TIME OF FIELD SURVEY. UNDERGROUND LINES SHOWN HEREON ARE APPROXIMATE OR AS REPORTED BY VARIOUS RESPONSIBLE PARTIES. THE SURVEYOR DOES NOT GUARANTEE THAT ANY UNDERGROUND STRUCTURES SUCH AS UTILITIES, TANKS AND PIPES ARE LOCATED HEREON.
- ALL PIPE LENGTHS ARE HORIZONTAL DISTANCES MEASURED CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND SHOULD BE CONSIDERED APPROXIMATE.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, AND FEDERAL, STATE & LOCAL STANDARDS. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF CARY SPECIFICATIONS AND STANDARDS. A COPY OF TOWN SPECIFICATIONS CAN BE OBTAINED FROM THE TOWN OF CARY.
- ALL WORK WITHIN NCDOT RIGHT-OF-WAY SHALL MEET THE SPECIFICATIONS AND STANDARDS OF NCDOT. ALL CONSTRUCTION AND MATERIALS SHALL MEET NCDOT STANDARDS, LATEST EDITION.
- ALL CONCRETE PIPE IS TO BE ASTM C-76, CLASS III (UNLESS OTHERWISE NOTED) WITH RAM-NEK.
- THIS PROPERTY IS NOT LOCATED IN A FLOOD HAZARD ZONE PER FEMA MAP: 3720073500J DATED 05/02/06.
- ALL LOT DIMENSIONS SHOWN ARE APPROXIMATE. CONSULT THE BOUNDARY SURVEY FOR ACTUAL DEVELOPMENT BOUNDARY INFORMATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT RIGHT-OF-WAY. ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
- PRIOR TO PLACING C&G STONE BASE, THE CONTRACTOR SHOULD NOTIFY THE TOWN ENGINEER TO INSPECT THE PROOF ROLL OF THE SUBGRADE. ANY STONE PLACED WITHOUT PRIOR APPROVAL WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBJECT TO RE-CONSTRUCTION IF SUBGRADE DOES NOT MEET TOWN STANDARDS & SPECIFICATIONS.
- DESIGN/FIELD CONDITIONS QUITE EASILY MAY VARY FROM THAT REPRESENTED IN THE INITIAL SOILS REPORT AND/OR TOPOGRAPHICAL REPORT. ISOLATED AREAS MAY SHOW UP WEAK AND ADVERSE SOILS OR GROUNDWATER CONDITIONS MAY BE DISCOVERED THAT WERE NOT REVEALED DURING THE INITIAL SOILS INVESTIGATION. THEREFORE, THE OWNER/CLIENT IS TO BE AWARE THAT CURRY ENGINEERING GROUP, PLLC WILL NOT AND CANNOT BE HELD RESPONSIBLE FOR ANY FAILURES TO EITHER A STREET OR PARKING LOT PAVEMENT DESIGN UNLESS WE CAN BE FULLY AND TOTALLY INVOLVED IN THE CONSTRUCTION PROCESS WHICH MAY INCLUDE, BUT MAY NOT NECESSARILY BE LIMITED TO, TESTING SUBGRADE AND BASE DENSITY, ENGAGING THE DESIGN ENGINEER FOR THE EVALUATION OF THE SUBGRADE AND FOR THE OBSERVATION OF PROOF ROLLING SUBGRADE AND BASE AT VARIOUS STEPS OF CONSTRUCTION, OPPORTUNITY FOR THE DESIGN ENGINEER TO CALL IN A SOILS ENGINEER FOR CONSULTATION AND ADVICE, ETC. - STEPS WHICH TAKEN ALTOGETHER WITH THE INITIAL DESIGN SHOWN ON THE PLANS, CONSTITUTE THE COMPLETE DESIGN OF THE ROAD, STREET OF PARKING AREA (PRIVATE OR PUBLIC). THE DESIGN ENGINEER MUST BE GIVEN THE FULL LATITUDE AND OPPORTUNITY TO COMPLETE THE DESIGN BY FULLY PARTICIPATING IN THE CONSTRUCTION PROCESS. PLAN DESIGN IS A SMALL PORTION OF THE DESIGN AND CANNOT BE SEPARATED FROM THE CONSTRUCTION PROCESS IF THE OWNERS/CLIENTS DESIRE IS TO HAVE THE DESIGN ENGINEER STAND BEHIND THE COMPLETED DESIGNED PROJECT.
- ALL UTILITY SERVICES (POWER, TELEPHONE, CABLE, ETC.) ARE PROPOSED TO BE UNDERGROUND. DO NOT SEED OR MULCH DISTURBED AREAS UNTIL ALL UNDERGROUND UTILITIES HAVE BEEN INSTALLED. THE CONTRACTOR SHALL COORDINATE WITH THE PRIVATE UTILITY SERVICE COMPANIES FOR ANY REQUIRED CONDUITS OR POINT OF CONTACT CONDITIONS.
- THE BUILDING SETBACK LINES SHOWN ON THIS PLAN ARE FOR THE ENGINEER'S USE IN ESTABLISHING MINIMUM LOT FRONTAGES AT THE SETBACK LINE AND FOR RESERVING SUFFICIENT BUILDING AREA. BUILDING CONTRACTORS ARE TO VERIFY LOT LINE SETBACKS BEFORE SETTING FORMS OR DIGGING FOOTINGS.
- REGULATORY SIGNS, STOPS SIGNS AND STREET NAME SIGNS SHALL BE MANUFACTURED FROM HIGH INTENSITY REFLECTIVE MATERIALS.
- ALL EXCESS TOPSOIL AND UNCLASSIFIED EXCAVATION IS TO BE HAULED OFF-SITE, UNLESS OTHERWISE DIRECTED BY THE OWNER TO AN APPROVED NCDENR LOCATION.
- ALL DEVELOPMENT CONSTRUCTION MUST BE INSPECTED BY THE PROJECT ENGINEER OR OWNER AT THE FOLLOWING STAGES:
 - COMPLETION OF GRADING SUBGRADE PRIOR TO PLACING STONE BASE.
 - COMPLETION OF STONE PLACEMENT PRIOR TO PAVING.
 - FINAL INSPECTION WHEN ALL WORK IS COMPLETE.
 ALL PUBLIC UTILITIES THAT REQUIRE AN ENGINEERING CERTIFICATION MUST BE INSPECTED BY A PROFESSIONAL ENGINEER ON A PERIODIC BASIS. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER WHEN INSTALLING UTILITIES FOR PERIODIC INSPECTIONS. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AT THE TIME OF PRESSURE TESTING AND WATER LINE DISINFECTION. THE CONTRACTOR SHALL SUPPLY THE PROJECT ENGINEER PRESSURE TEST RESULTS.
- THE SURVEYOR DID NOT VISIBLY SEE ANY CEMETERIES IN ANY OPEN AREAS UNLESS OTHERWISE NOTED.
- THIS PROPERTY DOES NOT DEPICT ENCUMBRANCES THAT ARE FOUND DURING A THOROUGH TITLE SEARCH.
- THE CONTRACTOR SHALL NOT POUR ANY CONCRETE BEFORE FORMS ARE INSPECTED BY THE PROJECT ENGINEER AND/OR OWNER AND HAS APPROVAL FROM TOWN OF CARY INSPECTIONS. ANY CONCRETE THAT HAS NOT BEEN APPROVED BY THE ENGINEER AND/OR OWNER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD CONDITIONS WHEN POSSIBLE, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF THE CLEARANCES ARE LESS THAN SPECIFIED ON THE PLANS OR 12 INCHES, WHICH EVER IS LESS, CONTACT THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- THE CONTRACTOR SHALL INCLUDE IN HIS CONTRACT PRICE THE REMOVAL AND DISPOSAL OF ANY EXCESS TOPSOIL HE DETERMINES IS NOT REQUIRED TO PERFORM THE FINAL GRADING AND LANDSCAPING OPERATION.
- THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE DAILY RECORD KEEPING OF THE AS-BUILT CONDITION OF ALL OF THE UNDERGROUND UTILITIES, CONSTRUCTION STAKEOUT ASSOCIATED WITH THE PROJECT. PREPARATION OF THE NECESSARY/REQUIRED AS-BUILT PLANS TO BE SUBMITTED TO TOWN OF CARY AND WAKE COUNTY AND ALL OTHER INFORMATION REQUIRED IN CONNECTION WITH RELEASE OF BONDS.
- THE CONTRACTOR SHALL INCLUDE IN THE PRICE, ANY AND ALL COSTS ASSOCIATED WITH PROVIDING A PROFESSIONAL ENGINEER ON-SITE IF REQUIRED, DURING THE CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITIES, UNDERGROUND UTILITIES, ETC. AS REQUIRED FOR AS-BUILT CERTIFICATION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL REQUIRED/NECESSARY SHEETING, SHORING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THE DRAWINGS. WAKE COUNTY, TOWN OF CARY & CURRY ENGINEERING ACCEPT NO RESPONSIBILITY FOR THE DESIGN TO INSTALL SAID ITEMS.
- TESTING BY CONTRACTOR: CONTRACTOR SHALL EMPLOY AT HIS EXPENSE AN OUTSIDE INDEPENDENT SOIL TESTING SERVICE (APPROVED BY THE ARCHITECT) TO PERFORM SOIL TESTING AND INSPECTION SERVICE FOR QUALITY CONTROL TESTING DURING EARTHWORK OPERATIONS. COPIES OF RESULTS OF TESTS SHALL BE SUBMITTED BY THE TESTING SERVICE DIRECTLY TO THE CONTRACTOR, THE ARCHITECT, AND THE STRUCTURAL ENGINEER. -THE TESTING SERVICE WILL CLASSIFY PROPOSED ON-SITE AND BORROW SOILS TO VERIFY THAT SOILS COMPLY WITH SPECIFIED REQUIREMENTS AND TO PERFORM REQUIRED FIELD AND LABORATORY TESTING. (MINIMUM REQUIRED SOIL BEARING CAPACITY IS NOTED ON THE STRUCTURAL DRAWINGS). --IN PAVED AND BUILDING SLAB AREAS, THE TESTING SERVICE SHALL MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 2000 SQUARE FEET OF FILL IN EACH COMPACTED FILL LAYER. IF A TEST SHOULD FAIL TO MEET REQUIRED DENSITY, THE CONTRACTOR SHALL RE-COMPACT THAT LAYER. THE SOIL TESTING SERVICE SHALL PERFORM ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE TO SHOW THAT THE FAILED LAYER HAS REACHED THE REQUIRED COMPACTION. --IN FOUNDATION WALL AREAS, THE TESTING SERVICE SHALL MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 100 FEET OR LESS OF WALL LENGTH OF FILL IN EACH COMPACTED FILL LAYER, WITH NO LESS THAN TWO TESTS ALONG A WALL FACE. IF A TEST SHOULD FAIL TO MEET REQUIRED DENSITY, THE CONTRACTOR SHALL RE-COMPACT THAT LAYER. THE SOIL TESTING SERVICE SHALL PERFORM ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE TO SHOW THAT THE FAILED LAYER HAS REACHED THE REQUIRED COMPACTION.
- COMPACTION: COMPACT EACH LAYER OF BACKFILL AND FILL SOIL MATERIALS AND THE TOP 12" OF SUBGRADE IN CUT AREAS TO 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D1557 FOR STRUCTURES, SLABS, AND PAVEMENTS AND 95% OF MAXIMUM DENSITY FOR LAWNS OR UNPAVED AREAS. MAX LIFT THICKNESS FOR FILL AREAS IS 8 INCHES.
- COPIES OF ALL PERMITS AND APPROVED PLANS MUST BE KEPT ON-SITE IN A PERMIT BOX THAT IS CONSPICUOUSLY LOCATED AND EASILY ACCESSIBLE DURING CONSTRUCTION. THIS INCLUDES APPROVED CONSTRUCTION PLANS, APPROVED EROSION CONTROL PLANS, ENCROACHMENT AGREEMENTS, DRIVEWAY PERMITS, WATER/SEWER PERMITS, ETC.
- ALL RIGHT OF WAYS SHALL BE PUBLIC.
- THE FIRE PROTECTION WATER SUPPLY SYSTEM, INCLUDING FIRE HYDRANTS, SHALL BE INSTALLED AND BE IN AT LEAST THE FUNCTIONAL STATUS PRIOR TO PLACING COMBUSTIBLE MATERIALS ON THE PROJECT SITE. IF PHASED CONSTRUCTION IS PLANNED, COORDINATED INSTALLATION OF THE FIRE PROTECTION WATER SYSTEM IS PERMITTED. COORDINATION OF THE WATER SYSTEM WILL BE DONE THROUGH THE WATER RESOURCES DEPARTMENT. FUNCTIONAL STATUS WOULD INCLUDE MEETING ALL STANDARDS SET FORTH IN SECTION 06060 TESTING AND INSPECTIONS."

ABBREVIATIONS:

IDENTIFIER	DESCRIPTION	IDENTIFIER	DESCRIPTION
&	AND	MAX	MAXIMUM
Ø	CENTERLINE	MH	MANHOLE
∅	DIAMETER OR ROUND PROPERTY LINE	MIN	MINIMUM
ABC	AGGREGATE BASE	--N--	
ASPH	ASPHALT	N	NORTH, NORTHING
AVE	AVENUE	NCDENR	NORTH CAROLINA DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES
BLVD	BOULEVARD	NCDOT	NORTH CAROLINA DEPT. OF TRANSP.
BLDG	BUILDING	NTS	NOT TO SCALE
BW	BOTTOM OF WALL		
--C--		OH	OVERHEAD
CB	CATCH BASIN	--P--	
CI	CURB INLET	R	RADIUS
CIP	CAST IRON PIPE	RCP	REINFORCED CONCRETE PIPE
CLS	CLASS	R.O.W.	RIGHT OF WAY
CJ	CONTROL JOINT	RPDA	REDUCED PRESSURE DETECTOR ASSEMBLY
CO	CLEANOUT	RPZ	REDUCED PRESSURE ZONE
CONC	CONCRETE	--S--	
--D--		S	SOUTH
DI	DROP INLET	SD	STORM DRAIN
DIA	DIAMETER	SDE	SIGHT DISTANCE EASEMENT
DIP	DUCTILE IRON PIPE	SSMH	SANITARY SEWER MANHOLE
DOM.	DOMESTIC	SS	SANITARY SEWER
DR	DRIVE	STA	STATION
--E--		STD	STANDARD
(XX)	EXISTING ELEVATION	ST.STL	STAINLESS STEEL
E	EAST, EASTING	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
EL	ELEVATION	--T--	
EJ	EXPANSION JOINT	TB	TOP OF BARRIER
EX	EXISTING	TC	TOP OF CURB
EVAP	EVAPORATIVE	TD	TEMPORARY DIVERSION
FDC	FIRE DEPARTMENT CONNECTION	TH	TEST HEADER
FEV	FUEL EFFICIENT VEHICLE	TOC	TOP OF CURB
FES	FLARED END SECTION	TOP	TOP OF PIPE
FFE	FINISHED FLOOR ELEVATION	TP	TOP OF PAD
FG	FINISHED GRADE	TYP	TYPICAL
FH	FIRE HYDRANT	TW	TOP OF WALL
FL	FLOW LINE	--U--	
FT	FOOT OR FEET	UG	UNDERGROUND
--G--		--V--	
G	GAS	VEG	VEGETATED
GALV	GALVANIZED	VERT	VERTICAL
GB	GRADE BREAK	--W--	
GE	GENERAL ELECTRIC	W	WEST
GR	GRADE	W	WITH
HDPE	HIGH DENSITY POLYETHYLENE	W/O	WITHOUT
HORIZ	HORIZONTAL	--Y--	
HOV	HIGH OCCUPANCY VEHICLE	YI	YARD INLET
HP	HIGH POINT		
--I--			
I&W	IN ACCORDANCE WITH		
I.H.	INTERSTATE HIGHWAY		
INV	INVERT		
--L--			
LEN	LENGTH		
LEV	LOW EMISSION VEHICLE		
LF	LINEAR FEET		
LP	LOW POINT		

ALL SYMBOLS & ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS DRAWING PACKAGE.

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DATE: 08/09/2018 10:42:43 AM

NO.	DATE	BY	DESCRIPTION
1	07/20/17		TOWN OF CARY COMMENTS
2	10/02/2017		TOWN OF CARY COMMENTS
3	09/28/2018		TOWN OF CARY COMMENTS
4	08/09/2018		TOWN OF CARY COMMENTS
5	08/09/2018		TOWN OF CARY COMMENTS
6	08/09/2018		TOWN OF CARY COMMENTS
7	07/20/2018		TOWN OF CARY COMMENTS

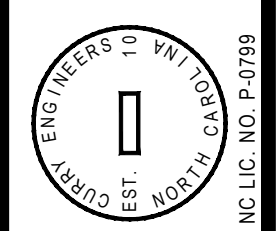
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FILE NO: 2016-094
SCALE: 1"=10'-0"
SHEET SIZE: 24"X36"

WELLFIELD DEVELOPMENT PLAN (#17-DP-0905)
CONSTRUCTION NOTES

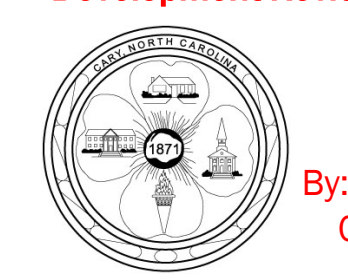


Know what's below. Call before you dig.

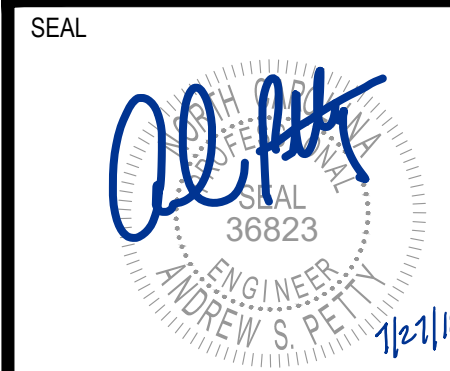
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**APPROVED by the Town of Cary
Development Review Committee**



By: Kevin A. Hales
08/09/2018



TOWN OF CARY SIGNATURE SET

Curry
ENGINEERING
C-01