



0 40 80
SCALE: 1" = 40'

CITY OF KNOXVILLE
CONTROL MONUMENT
NUMBER 1091
N 593118.024
E 255283.555
ELEV 966.92

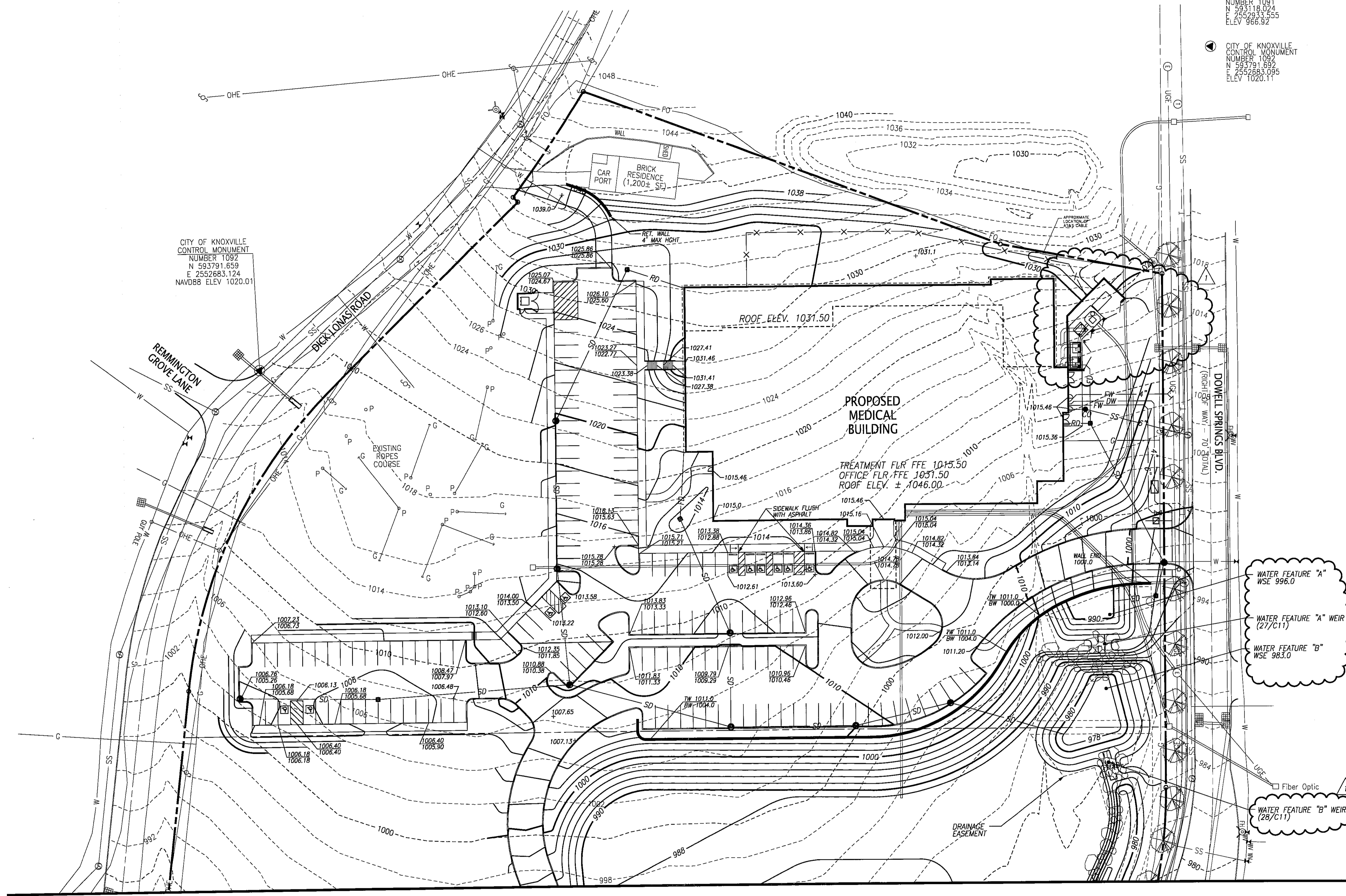
CITY OF KNOXVILLE
CONTROL MONUMENT
NUMBER 1092
N 593191.692
E 255283.095
ELEV 1020.11

GRADING NOTES:

- UNLESS NOTED OTHERWISE, THE PROPOSED GRADES SHOWN ON THESE DRAWINGS ARE FINISHED GRADE, EXISTING AND PROPOSED CONTOURS ARE SHOWN AT 2-FT. INTERVALS.
- THE ACCURACY OF THE GRADES IS DEPENDANT ON THE DATA PROVIDED BY THE OWNER OR OWNER'S REPRESENTATIVE. FIELD VERIFY AS NECESSARY PRIOR TO CONSTRUCTION.
- THE SITE SHALL BE CLEARED AND GRUBBED WITHIN THE LIMITS OF EXCAVATION. COMPLETELY DISPOSE OF ALL MATERIALS RESULTING FROM CLEARING AND GRUBBING OFF-SITE. BURNING SHALL NOT BE PERMITTED UNLESS PRIOR APPROVAL IS OBTAINED BY THE LOCAL FIRE DEPARTMENT. THE CONTRACTOR MUST OBTAIN A PERMIT AND MEET ALL OF THE REQUIREMENTS AS SPECIFIED BY THE FIRE DEPARTMENT.
- ALL TREES STUMPS, BOULDERS, AND OTHER OBSTRUCTIONS SHALL BE REMOVED TO A DEPTH OF 2 FT BELOW THE SUBGRADE. ROCK SHALL BE SCARIFIED TO DEPTH OF 1 FT BELOW SUBGRADE.
- STRIP TOPSOIL FULL DEPTH (6-IN. MIN.) AND TEMPORARILY STOCKPILE EXCAVATED MATERIALS. INSTALL SILT FENCE OR OTHER APPROPRIATE EROSION CONTROL STRUCTURES ON THE DOWN HILL SIDE OF THE STOCKPILE.
- PROOF ROLL ALL AREAS TO RECEIVE FILL. PROOF ROLL WHILE GEOTECHNICAL ENGINEER IS PRESENT WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK OR OTHER PNEUMATIC-TIRED CONSTRUCTION EQUIPMENT OF SIMILAR WEIGHT USING A CRISS-CROSS PATTERN (4 PASSES MIN.) AREAS FAILING THE PROOF ROLLING SHALL BE UNDERCUT AND BACKFILLED USING AN ENGINEERED FILL OR STABILIZED BY A METHOD APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER.
- AREAS THAT EXHIBIT WEAK SOIL OR OTHERWISE UNSUITABLE CONDITIONS SHALL BE UNDERCUT TO A FIRM LEVEL OF SOIL FOLLOWED BY BACKFILLING THE UNDERCUT AREAS USING AN ENGINEERED FILL. TDOT NO. 57, OR TDOT NO. 67 STONE.
- FILL MATERIAL SHALL BE SATISFACTORY MATERIAL FREE FROM ROOTS AND OTHER ORGANIC MATERIAL, FROZEN MATERIAL, AND TRASH. FILL MATERIAL SHALL ALSO BE FREE OF STONE OR OTHER MATERIAL LARGER THAN 6 IN. AND LARGER THAN 4 IN. IN THE TOP 6 IN. OF AN EMBANKMENT.
- UNSATISFACTORY SOILS INCLUDE MATERIALS THAT ARE TOO WET OR TOO SOFT, EXPANSIVE SOILS (PLASTICITY INDEX GREATER THAN 35), SOILS WITH A STANDARD PROCTOR MAXIMUM DRY DENSITY LESS THAN 90 PCF AND SOILS CLASSIFIED AS PT. OH, AND OL. LEGALLY DISPOSE OF UNSATISFACTORY SOILS OFF-SITE.
- FILL MATERIAL SHALL BE PLACED IN LOOSE, HORIZONTAL LIFTS NOT EXCEEDING 8 IN. THICKNESS. COMPACT EACH LAYER TO AT LEAST 98% MAXIMUM DRY DENSITY. MAINTAIN THE MOISTURE CONTENT TO WITHIN +/- 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
- A 6 IN. (MIN.) LAYER OF TOPSOIL SHALL BE PLACED OVER THE AREAS TO BE SEEDED AND TO THE FINISH GRADE ELEVATIONS AS SHOWN ON THE DRAWINGS.
- DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS OR POND ON-SITE. PROVIDE NECESSARY MEASURES TO KEEP THE SITE FREE-DRAINING.
- NO SLOPE SHALL EXCEED 3:1 UNLESS PROPER EROSION CONTROL MEASURES ARE IMPLEMENTED.
- PROTECT AND MAINTAIN SUBGRADES UNTIL PLACEMENT OF THE FINAL SURFACE IS ACHIEVED.
- CONTRACTOR IS RESPONSIBLE TO ASSURE THAT THE FINISHED GRADES CONFORM WITH THE DETENTION POND DESIGN PARAMETERS AS IDENTIFIED ABOVE. ONCE GRADING IS COMPLETE AND PRIOR TO FINAL SEEDING, SUBMIT AN AS-BUILT SURVEY FOR THE OWNER'S REVIEW.
- SLOPE BOTTOM OF POND @ 2.0% (MIN.).
- VERIFY GRADES WHEREVER NECESSARY TO BRING THE PROPOSED LINES, ELEVATIONS, SLOPES, AND CROSS-SECTIONS OF THE GRADING WORK TO WITHIN THE FOLLOWING TOLERANCES ABOVE OR BELOW THAT AS SHOWN ON THE PLANS: SUBGRADE 0.1', UNPAVED AREAS 0.1', SIDEWALKS 0.10', PAVEMENTS 0.04', AND BUILDINGS 0.04'.
- SLOPES GREATER THAN 4:1 SLOPE AT A HEIGHT GREATER THAN 6' SHALL BE TESTED BY THE PROJECT GEOTECHNICAL ENGINEER TO CONFIRM STABILITY.

LEGEND:

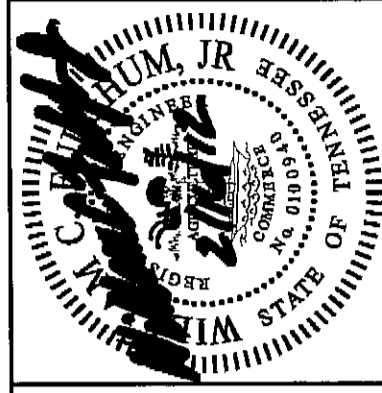
- PROPERTY LINE
- ⊙ EXISTING SANITARY SEWER MANHOLE
- ⊙ EXISTING LIGHT POLE
- SS EXISTING SANITARY SEWER LINE
- OHE EXISTING OVERHEAD ELECTRIC LINE
- UGE EXISTING UNDERGROUND ELECTRIC LINE
- G EXISTING GAS LINE
- W EXISTING WATER LINE
- 30" RCP EXISTING STORM SEWER
- (1/C2) DETAIL REF. (DETAIL NO./SHT. NO.)
- TYP. TYPICAL
- EXISTING STORM STRUCTURE
- EXISTING UTILITY POLE
- SD PROPOSED STORM SEWER
- RD PROPOSED ROOF DRAIN
- PROPOSED STORM STRUCTURE
- 1010 PROPOSED CONTOUR
- 1010 EXISTING CONTOUR



MATCH LINE - SHEET C4

FULGHUM
MACINDOE
& ASSOCIATES, INC.

10330 HARDIN VALLEY ROAD
SUITE 201
KNOXVILLE, TN 37932
OFFICE: 865.690.6419
FAX: 865.690.6448
www.fulghummacindoe.com

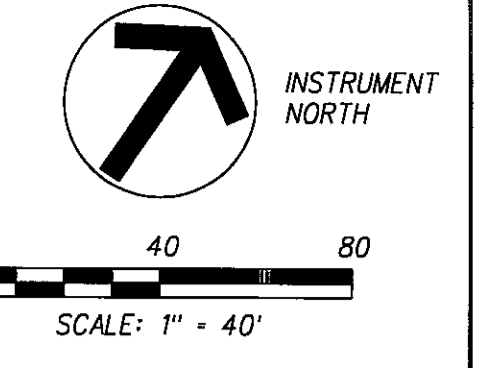


THE PROTON
THERAPY CENTER
1445 DOWELL SPRINGS BLVD
KNOXVILLE, TENNESSEE 37909

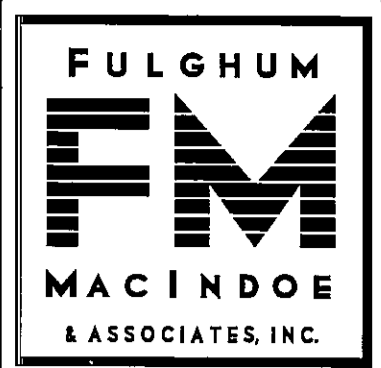
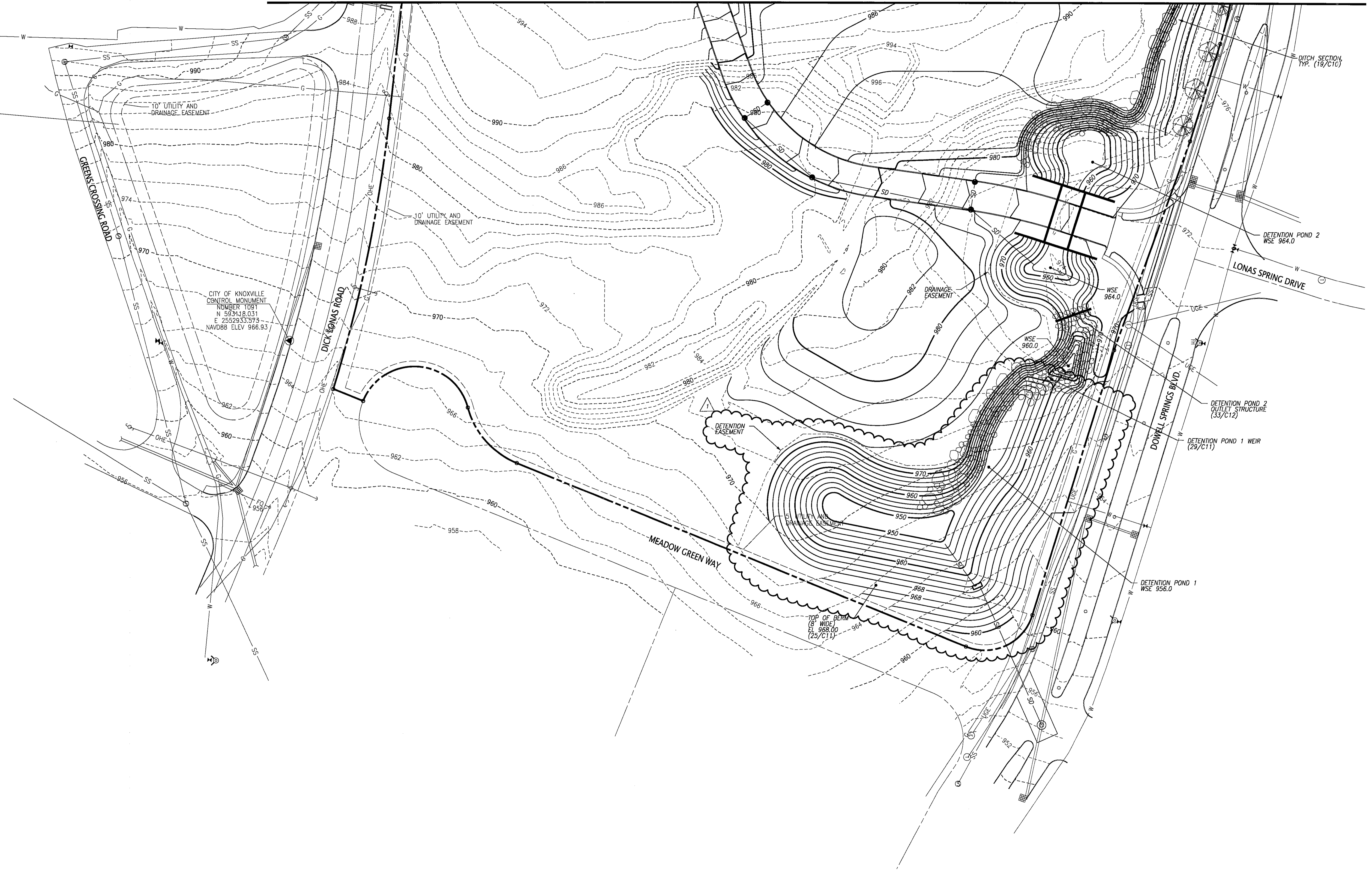
PROVISION HEALTH PARTNERS
1450 DOWELL SPRINGS BLVD, SUITE 250
KNOXVILLE, TN 37909
CONTACT: PETE CARPENTER
TELEPHONE NO.: 865.321.4523
EMAIL: PETE.CARPENTER@PROVISIONHP.COM

SITE GRADING PLAN

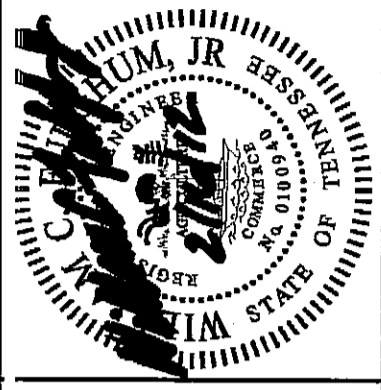
PROJ. MGR.	DESIGNED BY	DRAWN BY	DATE
MCF	WJS	RLP	2/16/12
			7/6/12
			No.
			Date
			Revision/Issue
Project	Sheet		
415.001.3	C3		
Date	Scale		
1/6/12	1"=40'		



MATCH LINE - SHEET C3



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SITE GRADING PLAN

Project	415.001.3
Date	1/6/12
Scale	1"=40'
Sheet	C4
Revision/Issue	No. / Date
WCF	
JIS	
WCF	REVISED PER COX COMMENTS ISSUED FOR CONSTRUCTION
JIS	02/16/12
WCF	
JIS	1/6/12
WCF	
JIS	
WCF	
JIS	

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