

SITE GRADING NOTES

FILL PLACED UNDER NEW BUILDINGS, CONCRETE PADS, FILL SLOPES OR PAVEMENT SHALL BE COMPACTED TO A MINIMUM OF 95% OF ASTM D698, STANDARD PROCTOR. FILL PLACED IN GRASS OR LANDSCAPED AREAS SHALL BE COMPACTED TO A MINIMUM OF 90% OF ASTM D-698, STANDARD PROCTOR.

OFF-SITE AREAS: THE CONTRACTOR HOLDING THE LAND DISTURBING PERMIT FOR THIS PROJECT IS REQUIRED TO PROVIDE TO THE ROANOKE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT THE LOCATION OF ALL OFF-SITE BORROW/FILL AREAS ASSOCIATED WITH THIS PROJECT. AN EROSION CONTROL PLAN MAY BE REQUIRED FOR THOSE AREAS.

ALL DENuded AREAS SHALL BE PERMANENTLY SEEDED WITHIN SEVEN (7) DAYS OF REACHING FINAL GRADE. TEMPORARY SEEDED SHALL BE APPLIED, WITHIN SEVEN (7) DAYS, TO DENuded AREAS NOT AT FINAL GRADE BUT THAT WILL REMAIN UNDISTURBED FOR MORE THAN 30 DAYS.

ANY SOIL STOCKPILED ON-SITE SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPS OR OTHER PROTECTIVE MEASURES.

PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL DENuded AREAS NOT OTHERWISE PERMANENTLY STABILIZED.

A MINIMUM OF 6" OF TOPSOIL SHALL BE PLACED IN ALL AREAS TO RECEIVE PERMANENT SEEDED.

GENERAL GRADING REQUIREMENTS

ALL FINISH GRADE CONTOURS AND SPOT ELEVATIONS SHOWN HEREIN ARE TO THE UPPER ELEVATION OF THE SPECIFIC ELEMENT. THE CONTRACTOR SHALL ACCOUNT FOR THE THICKNESS OF THE FINISH SURFACE (TOPSOIL, PAVEMENT, LANDSCAPE MULCH, ETC.) IN GRADING OF THE SITE.

ELECTRIC SERVICE NOTES

CONTRACTOR SHALL COORDINATE THE INSTALLATION OF REQUIRED ELECTRICAL SERVICE(S) TO THE PROPOSED BUILDING(S) WITH THE OWNER, BUILDING PLANS AND SITE PLANS.

TELEPHONE SERVICE NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING LOCATION OF ANY NEW TELEPHONE DROP(S) REQUIRED FOR THIS PROJECT, FINAL ROUTE OF NEW LINE(S) TO BUILDING AND LOCATION OF ENTRY AT NEW STRUCTURES WITH THE OWNER AND THE BUILDING PLANS.

GAS SERVICE NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ROANOKE GAS COMPANY THE LOCATION OF ANY NEW CONNECTION(S) TO EXISTING GAS MAINS. CONTRACTOR SHALL FURTHER BE RESPONSIBLE FOR COORDINATING WITH THE BUILDING PLANS THE LOCATION OF ANY NEW GAS SERVICES TO PROPOSED BUILDINGS AND FOR ROUTING SERVICE LINES TO THOSE LOCATIONS.

UTILITY NOTES

THE GENERAL CONTRACTOR SHALL CONTACT "MISS UTILITY" PRIOR TO BEGINNING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL COORDINATE ALL UTILITY CONSTRUCTION WITH THE GRADING, PAVING AND BUILDING CONTRACTORS AS REQUIRED TO MINIMIZE CONFLICTS.

ALL STORM DRAINAGE AND SANITARY SEWER WORK SHALL HAVE RIGHT-OF-WAY OVER ALL ELECTRICAL, WATERLINE, GAS AND TELEPHONE CONSTRUCTION.

CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF NEW WATER AND SEWER SERVICES TO THE PROPOSED BUILDINGS WITH THE BUILDING PLANS.

IN ORDER TO MINIMIZE RUNOFF OF SEDIMENT LADEN WATER FROM UTILITY EXCAVATION THE CONTRACTOR SHALL OBSERVE THE FOLLOWING:

- NO MORE THAN 500 FT OF TRENCH SHALL BE OPEN AT ONE TIME.
- EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.
- EFFLUENT OF DEWATERING SYSTEM MUST BE FILTERED.
- ALL BACKFILL SHALL BE PROPERLY COMPACTED TO 95% ASTM D-698, STD. PROCTOR.
- EXCAVATION AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY.

SEWER LATERAL NOTE

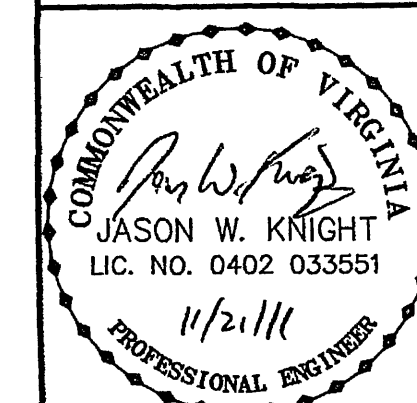
SANITARY SEWER CLEAN-OUTS (SSCO) SHOWN ARE FROM FIELD LOCATION BY CALDWELL WHITE ASSOCIATES. SANITARY SEWER LATERAL LOCATION IS ASSUMED BASED ON AVAILABLE INFORMATION. LINE SIZE IS UNKNOWN. CONTRACTOR SHALL VERIFY DEPTH OF EXISTING SEWER LATERAL AND IMMEDIATELY NOTIFY THE ENGINEER IF FIELD CONDITIONS DIFFER FROM THOSE INDICATED.

WATER SERVICE NOTES

- 1) EXISTING WATER SERVICE LATERAL LOCATION SHOWN IS FROM AVAILABLE RECORDS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING SERVICE LINE AND PROVIDING CONNECTION TO BUILDING EXPANSION IN LOCATION SHOWN.
- 2) CONTRACTOR SHALL CONTACT THE WESTERN VA. WATER AUTHORITY (540-537-3460) AT LEAST 14 DAYS IN ADVANCE OF PERFORMING WORK ASSOCIATED WITH INSTALLATION OF 6" TEE AND VALVE TO ALLOW FOR WVWA ISSUANCE OF SHUT-OFF NOTICES TO EXISTING CUSTOMERS SERVED VIA THE EX. MAIN. CONTRACTOR SHALL COORDINATE WORK SUCH THAT THE MAIN SHALL BE OUT OF SERVICE FOR THE MINIMUM POSSIBLE PERIOD OF TIME. DISINFECTION OF NEW WATERLINE SHALL BE IN STRICT ACCORDANCE WITH WVWA STANDARDS.
- 3) IN THE EVENT THAT THE WATER SERVICE LINES CANNOT BE PLACED OVER TOP OF THE EXISTING SANITARY SEWER LATERAL WITH A MINIMUM VERTICAL CLEARANCE OF 12", AND A MINIMUM BURY DEPTH OF 36", THE WATER SERVICE LINES SHALL BE SLEEVED FOR A MINIMUM OF 5' ON EACH SIDE OF SEWER LATERAL CENTERLINE IN ACCORDANCE WITH APPLICABLE PLUMBING CODES.
- 4) THE CONTRACTOR SHALL PROVIDE A SHOP DRAWING OF THE PROPOSED FIRE VAULT TO THE WESTERN VA. WATER AUTHORITY FOR THEIR APPROVAL. PROPOSED VAULT SHALL BE IN ACCORDANCE WITH WVWA STANDARDS.

KEYNOTES NEW FIRE & DOMESTIC SERVICE

- 1) INSTALL NEW 90° BEND AND BLOCKING (SEE SHEET C-7 FOR DETAIL). SEE WATER SERVICE NOTE 2 ABOVE.
- 2) PROVIDE AND INSTALL NEW 6" TEE, 6" VALVE, 6" D.I. PIPE & VALVE VAULT IN ACCORDANCE WITH WVWA STANDARDS. SEE WATER SERVICE NOTE 2 ABOVE.
- 3) PROVIDE AND INSTALL NEW FIRE HYDRANT ASSEMBLY IN ACCORDANCE WITH WESTERN VA. WATER AUTHORITY STANDARDS.
- 4) PROVIDE COMBINATION FIRE/DOMESTIC VAULT BY "CLEAR FLOW". INSTALL SUCH THAT WATERLINES HAVE MIN. 3' COVER AND SET TOP FLUSH WITH SURROUNDING GRADE. PROVIDE AND INSTALL NEW PRESSURE REDUCING VALVE IN ACCORDANCE WITH WESTERN VA. WATER AUTHORITY STANDARDS.
- 5) PROVIDE AND INSTALL NEW SIAMESE FIRE DEPARTMENT CONNECTION (F.D.C.) RISER.
- 6) PROVIDE AND INSTALL NEW DOMESTIC AND FIRE LINE(S) TO BUILDING AS INDICATED. NOTE: A PRESSURE REDUCING VALVE IS REQUIRED FOR THIS PROJECT. COORDINATE WITH THE PLUMBING PLANS FOR LOCATION OF EXISTING PRV, OR LOCATION OF NEW PRV TO BE INSTALLED INSIDE THE BUILDING.



SITE GRADING & UTILITY PLAN
SITE IMPROVEMENT PLANS
FOR
CHUCK E. CHEESE'S PIZZA
SITUATE 4059 ELECTRIC ROAD
CAVE SPRING MAGISTERIAL DISTRICT
COUNTY OF ROANOKE, VA.

CWA
CALDWELL WHITE ASSOCIATES
ENGINEERS / SURVEYORS / PLANNERS
4203 MELROSE AVENUE, N.W.
P.O. BOX 8860
ROANOKE, VIRGINIA 24017
(540) 366-3400
FAX: (540) 366-3702

Designed: JWK
Drawn: JWK
Checked: FBC
Date: OCT. 3, 2011
Rev: NOV. 21, 2011
Scale: 1"=10'
Tax Parcel: 87.02-01-51
N.B. No.: CH-1
W.O. No.: 11-0031

