DHHS

ON-SITE WASTEWATER SECTION

Sheet 1 of 2
PROPERTY ID #: 4753-66-0782
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Venture Properties VII LLC/Dollar General APPLICATION DATE 12-22-15
ADDRESS: 126 Executive Dr, Suite 200 Wilkesboro 28697 DATE EVALUATED: 1-20-16
PROPOSED FACILITY: Retail 8 Employee PROPOSED DESIGN FLOW (.1949): 200 gpd PROPERTY SIZE: 2.56ac
LOCATION OF SITE: 2046 Salisbury Hwy Statesville PROPERTY RECORDED: YES
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
B 1	LSS 8%	0-6	B SCL WFSBK	FrSS SPSEXP		48"	-	-	PS .25 to 24" .3 > 24"
		6-24	RCWFSBK/ABK	FrSPSEXP	few YB				
		24-32	RCLWFSBK	FrSSSPSEXP	com mica				
		32-48	RCLWFSBK	FrSSSPSEXP	com SAP				
B 2	LSS 10%	0-6	BCLWFSBK	FrSSSPSEXP	few	48"	-	-	PS .25 to 43"
		6-48	RCWFABK	FrSPSEXP	few/com YB Chr 2 7½"				
B 3	LSS 10%	0-4	BSCL Gr	FrSSSPSEXP					PS .225-.2 to 36"
		4-36	RCWFABK/SBK	FrSPSEXP	com YB, few	2.5Y 7/4			
		36-40	RCWFSBK	FrSPSEXP	few Chr 2, com YB		-	-	
		40-48	RCWFSBK	FrSSSPSEXP	com Mn, few YB	48"			
B 4	LSS 10%	0-6	BCLWFSBK	FrSSSPSEXP					PS .225-.2 to 42"
		6-23	RCWFSBK	FrSPSEXP	wet, few YB	48"	-		
		23-30	RCWFABK	FrSPSEXP	com YB				
		30-42	RCWFSBK	FrSSSPSEXP	few YB				
		42-48	RCLWFSBK	FrSSSPSEXP	com Chr 2	few Mn			

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Gravity 25%	Gravity 25%
Site LTAR	0.25	0.2

OTHER FACTORS (.1946): None
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: ALP
OTHER(S) PRESENT: None

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 4753-66-0721
DATE OF EVALUATION: 1-20-16
COUNTY: Iredell

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B5	CSS 6%	0-11	B SCL Gr	FrSSSPSExP					
		11-30	RC WFSBk	FrSSPSExP	few YB	48"	—	—	PS .25
		30-36	RC WFASBk	FrSSPSExP	few YB				
		38-48	RC WFSBk	FrSSPSExP	few YB				
B6	CSS 10%	0-10	B SCL/cl Gr	FrSSSPSExP		48"	—	—	PS .25
		10-23	YR C LWFSBk	FrSSPSExP					
		23-32	YR C LWFSBk	FrSSPSExP	com Ma, few YB				
		32-48	RC LWFSBk	FrSSSPSExP	few YB				

COMMENTS:

GENERAL:

T-1	TITLE SHEET
BS-1	BUILDING SUMMARY
BS-2	BUILDING SUMMARY

CIVIL:

	UNDER SEPARATE COVER

FIXTURE:

F-1	FIXTURE PLAN, VENDOR LIST & CHECKOUT COUNTER DETAI

ARCHITECTURAL:

A-1	FLOOR PLAN
A-2	EXTERIOR ELEVATIONS & FINISH SCHEDULE
A-3A	BUILDING & WALL SECTIONS
A-3B	SECTIONS & DETAILS
A-4	ROOM SCHEDULE & INTERIOR PAINT SCHEME
A-5	DOOR SCHEDULE & DETAILS
A-6	ENLARGED PLAN & DETAILS
A-7	SIGN DETAILS
A-8	REFLECTED CEILING PLAN
A-9	RETROPLATE WORK ORDER & DETAILS

STRUCTURAL:

S-1	FOUNDATION PLAN
S-2	SECTIONS & DETAILS
S-3	GENERAL STRUCTURAL NOTES & FLOOR SPECIFICATIONS

ELECTRICAL:

E-1	POWER PLAN
E-1.1	ENLARGED OFFICE POWER PLAN & DETAILS
E-2	LIGHTING PLAN
E-3.1	POWER POLE DETAILS
E-3.2	POWER POLE DETAILS
E-3.3	CCTV DETAILS
E-4	MISCELLANEOUS DETAILS
E-5	ELECTRICAL PANEL CRITERIA
EMS-1	SENSOR LOCATION PLAN
EMS-2	CPU TERMINAL DIAGRAM
ES-1	ELECTRICAL SITE PLAN

MECHANICAL:

M-1	HVAC LAYOUT & SCHEDULE
M-2	HVAC CURB DETAILS

PLUMBING:

P-1	PLUMBING PLANS & SCHEDULE
P-2	PLUMBING DETAILS & RISER DIAGRAMS

MARK S. SALOMONE — REGISTERED ARCHITECT — 10439 — 10/05/15
ARCHITECT

NORTH CAROLINA PROFESSIONAL ENGINEER — SEAL 38138 — 10/05/15
STRUCTURAL ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER — SEAL 036407 — 10/05/15
ELECTRICAL ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER — SEAL 038385 — 10/05/15
MECHANICAL ENGINEER

DOLLAR GENERAL®

70'-0 x 130'-0"
2015 FRONT ENTRY WITH RIGHT REAR DELIVERY
OPTION "D" 9,100 S.F.
STORE # 16534

APPROVED — DOLLAR GENERAL CONSTRUCTION MANAGER

REVISIONS			
REVISION	DATE	DESCRIPTION	SHEETS
1	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

GENERAL NOTES:

1. BUILDING MUST COMPLY WITH ALL BUILDING (FEDERAL, STATE AND LOCAL), FIRE, ADA AND APPLICABLE HEALTH DEPARTMENT CODES.
2. NO TAPERED COLUMNS ALLOWED.
3. MAINTAIN CLEAR FLOOR SPACE AS DIMENSIONED ON SHEET A-1
4. BUILDING MUST COMPLY WITH NCBC FIRE RETARDANT TREATED WOOD FOR ASTM RATING, LABELING, AND FLAME SPREAD INDEX.

THE FOLLOWING SHOP DRAWINGS ARE REQUIRED BEFORE START OF CONSTRUCTION:

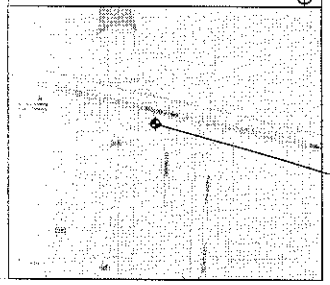
1.) CONCRETE MIXES - ALL LOCATIONS AND STRENGTHS
2.) REINFORCEING STEEL (REBAR) SHOP DRAWING
3.) PRE-ENGINEERED METAL BUILDING - THIS SHOP DRAWING MUST BE SIGNED AND STAMPED BY THE METAL BUILDING ENGINEER BEFORE SUBMITTAL.

GENERAL CONTRACTOR SHALL REVIEW, STAMP AND SIGN ALL SHOP DRAWINGS BEFORE SUBMITTAL TO ARCHITECT OF RECORD (SHOP DRAWINGS NOT SIGNED BY THE CONTRACTOR WILL NOT BE REVIEWED). CONTRACTOR SHALL ALLOW 5 BUSINESS DAYS FOR SHOP DRAWING REVIEW AND WILL BE RESPONSIBLE FOR ANY DELAY IN CONSTRUCTION SCHEDULE DUE TO FAILURE TO SUBMIT SHOP DRAWINGS IN ADEQUATE TIME FRAME.

SQUARE FOOTAGE LEGEND

TOTAL SQUARE FOOTAGE	9,100 S.F.
TOTAL LEASABLE AREA	9,026 S.F.
OVERALL BUILDING DIMENSIONS	70'-0" X 130'-0"
SALES FLOOR DIMENSIONS	68'-0" X 104'-0"
SALES AREA	7,343 S.F.
RECEIVING AREA	1,010 S.F.
BREAK ROOM & OFFICE AREA	142 S.F.
TOILET ROOMS & HALLWAY AREA	244 S.F.
TOTAL NET AREA (BLDG AREA PER BLDG CODE)	8,739 S.F.

LOCATION MAP



CODE INFORMATION

GOVERNING CODES:
2012 NORTH CAROLINA BUILDING CODE, 2012 NORTH CAROLINA FIRE CODE, 2012 NORTH CAROLINA PLUMBING CODE, 2012 NORTH CAROLINA MECHANICAL CODE, 2012 NORTH CAROLINA FUEL GAS CODE, 2012 NORTH CAROLINA ENERGY CONSERVATION CODE, 2011 NORTH CAROLINA ELECTRICAL CODE

PROJECT LOCATION:
U.S. HWY. 70 AND DELLWOOD DR.
STATESVILLE, NC 28677

PROJECT DESCRIPTION: NEW CONSTRUCTION OF RETAIL BUILDING

BUILDING DATA:
BUILDING AREA (SQ. FT.): 9,100 SQ. FT. GROSS
BUILDING HEIGHT: 1 STORY
OCCUPANCY TYPE: NON-SEPARATED MIXED USE, MERCANTILE (GROUP M) MODERATE-HAZARD STORAGE (GROUP S-1)

CONSTRUCTION TYPE: TYPE II B - UNPROTECTED (NON-COMBUSTIBLE CONSTRUCTION)

ALLOWABLE AREA (SQ. FT.): GROUP M = 12,500 GROSS

OCCUPANT LOAD:
PUBLIC AREAS (NET) = 7,443 SQ. FT. ÷ 142 OFFICE / BREAKROOM SQ. FT. ÷ 144 TOILETS SQ. FT. = 7,729 SQ. FT.
STORAGE AREA (NET) = 1,010 SQ. FT.
MISC (NET) = 361 SQ. FT.
(7,729/30=258) + (1,010/300=4) = 262 OCCUPANTS TOTAL

FIRE REQUIREMENTS:
NO RATED BUILDING ELEMENTS REQUIRED PER NCBC
SUPPRESSION - NONE PROVIDED

NUMBER OF EXITS PROVIDED: 3 (2 IN SALES AREA, 1 IN STORAGE AREA)
NUMBER OF EXITS REQUIRED: 2 (255 OCCUPANTS X 0.2" PER PERSON = 51"). EXIT WIDTH PROVIDED: 96"
PER A.D.A. REQUIREMENTS - EACH EXIT TO BE 36" WIDE WITH 32" (CLEAR WIDTH) OR GREATER
EXIT ACCESS - MAXIMUM TRAVEL DISTANCE = 200'-0"

EXIT SIGNAGE: EXIT SIGNAGE TO COMPLY WITH NCBC.
EGRESS LIGHTING: EGRESS LIGHTING TO COMPLY WITH NCBC.

INTERIOR FINISHES: EXITWAYS AND EXPOSED INSULATION TO HAVE A CLASS "A" FLAME SPREAD CLASSIFICATION (MIN.)
OTHER ROOMS TO HAVE A CLASS "C" FLAME SPREAD CLASSIFICATION (MIN.)
CLASS A = 0-25 FLAME SPREAD INDEX; 0-450 SMOKE DEVELOPED INDEX
CLASS B = 26-75 FLAME SPREAD INDEX; 0-450 SMOKE DEVELOPED INDEX
CLASS C = 76-200 FLAME SPREAD INDEX; 0-450 SMOKE DEVELOPED INDEX

INSULATION IN CONCEALED SPACES: INSULATION TO HAVE A CLASS "A" FLAME SPREAD CLASSIFICATION

GPD Engineering and Architecture Professional Corporation - 82715

DOLLAR GENERAL

REV | DATE | DESCRIPTION

DOLLAR GENERAL
U.S. HWY. 70 AND DELLWOOD DR.
STATESVILLE, NC 28677

TITLE SHEET

ISSUED FOR:	
PERMIT	10.02.15
BID	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
MAR	CDL

JOB NO. 2015192.10

T-1

Drawing Name: O:\2015\2015192.10 Statesville Hwy 70_MOD\arg\dwg\00_T1_TITLE SHEET.DWG
October 8, 2015 - arcstaker

North Carolina Department of Environment and Natural Resources
Division of Environmental Health

Beverly Eaves Perdue
Governor

Terry L. Pierce
Director

Dee Freeman
Secretary

Memorandum

To: NC Environmental Health Specialists

From: Ted Lyon, On-Site Water Protection Section Chief

Subject: Design Flow Reduction for Dollar General Stores

Date: July 30, 2010

Based on separate sets of data provided for more than ten stores in the past for flow reductions for Dollar General Stores, a proposed design daily flow of 200 gpd may be used. This design flow can only be used with the following conditions:

1. Tanks must be sized on the un-reduced design flow (120 gpd/1,000 square feet of retail space area).
2. Use of low-flow fixtures such as spring-loaded or automatically activated faucets with flow rates of one gallon per minute or less, low-flow urinals which use 0.5 gallons per flush or less, and low-flow toilets which use 1.6 gallons per flush or less. Cut sheets of the fixtures must be provided.
3. A floor plan of the building must be provided. The retail sales floor area must be less than 8,000 square feet.
4. If a pump system is used, a Section approved flow equalization control panel must be used. The flow equalization control panel limits the amount of effluent discharged to the drainfield when the lag float is triggered and only one timed dose is delivered. Non-flow equalization control panels are programmed to discharge all effluent in the pump tank to the drainfield when the lag float is triggered.
5. The control panel should be set up to limit the daily dose to the drainfield to be no more than the maximum design daily flow of 200 gpd.
6. The tenants are prohibited from disposing into the wastewater system any chemical cleaners or any other compound which may be harmful to the bacteria in the wastewater system, including but not limited to quaternary ammonia compounds.
7. The tenants are prohibited from disposing of any food waste (solid or liquid) into the system.
8. The improvement permit, authorization to construct, and operation permit issued must be specify a Dollar General store. Any change to a facility designated as a Dollar General store would require a re-evaluation of the design flow and the system design, and revised permits would have to be issued.

On-site Water Protection Section – Ted Lyon, Chief
1642 Mail Service Center, Raleigh, North Carolina 27699-1642
Phone: 919-733-2895 \ FAX: 919-715-3227 \ Internet: www.deh.enr.state.nc.us/osww_new/new1/index.htm

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9. This flow reduction applies only to the design flow from a Dollar General store. The improvement permit, authorization to construct, and operation permit issued must indicate that the permit is for a Dollar General store or in the case of multiple stores, which specific store will be a Dollar General.
10. We recommend the installation of a water meter for the Dollar General.