

LAKEWATCH PLANTATION COMMUNITY SEWER SYSTEM PHASE 1 FRANKLIN COUNTY, VIRGINIA

GENERAL NOTES:

1. ALL CONSTRUCTION DESIGN, METHODS AND MATERIALS MUST BE IN ACCORDANCE WITH ARTICLES VI AND VII, CHAPTER 22 OF THE FRANKLIN COUNTY CODE. THE CONTRACTOR OR DEVELOPER IS REQUIRED TO NOTIFY FRANKLIN COUNTY ENGINEERING DIVISION IN WRITING AT LEAST THREE (3) DAYS PRIOR TO ANY CONSTRUCTION, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
A. INSTALLATION OF APPROVED EROSION CONTROL DEVICES.
B. CLEARING AND GRUBBING.
C. SUBGRADE EXCAVATION.
D. PLACING OTHER CONCRETE.
E. PLACING GRAVEL BASE.
F. PLACING BITUMINOUS SURFACE.
G. INSTALLING WATER LINES.
H. INSTALLING FIRE HYDRANTS AND VALVES.
I. INSTALLING SERVICE LINES AND METER VALVES.
J. BACKFILLING AND COMPACTION.
2. UTILITY LINE CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS INCLUDED HEREIN AS WELL AS THOSE SET FORTH BY THE VIRGINIA DEPARTMENT OF HEALTH AND FRANKLIN COUNTY. THE CONTRACTOR SHALL OBTAIN THE LATEST EDITION OF SUCH STANDARDS AND HAVE THEM AVAILABLE TO THE PROJECT SITE AT ALL TIMES.

3. THE CONTRACTOR SHALL PROVIDE TEMPORARY FACILITIES SUCH AS PORTABLE TOILETS, TEMPORARY ELECTRICAL HOOK-UPS, AND WATER FACILITIES AS REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL CLOSELY EXAMINE THE SCOPE OF WORK REQUIRED HEREIN AND PROVIDE ANY AND ALL TEMPORARY FACILITIES AS MAY BE DEEMED NECESSARY.

4. THE CONTRACTOR SHALL PROVIDE PROJECT CLOSE-OUT SERVICES INCLUDING FINAL GRADING, FINAL SEEDING, FINAL PAVING, CLEAN-UP, AND RESTORATION OF EXISTING FACILITIES AND TERRAIN TO A CONDITION SIMILAR TO THE START OF WORK.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PROVIDING FINAL TESTING OF THE WASTEWATER UTILITIES IN CONFORMANCE WITH APPLICABLE TESTING AND INSPECTION GUIDELINES.

6. FINAL INSPECTION SHALL BE PROVIDED BY AN ENGINEER LICENSED IN THE STATE OF VIRGINIA OR BY A PUBLIC AGENT WHO RETAINS THE RESPONSIBILITY TO MONITOR CONSTRUCTION AND OVERSEE INSPECTIONS.

7. THE CONTRACTOR SHALL PROVIDE THREE COPIES OF SHOP DRAWINGS FOR THE EQUIPMENT AND MATERIAL SLATED FOR INSTALLATION. THE SHOP DRAWINGS SHALL BE REVIEWED BY THE CONSULTING ENGINEER AND RETURNED AS APPROVED, APPROVED AS NOTED, OR REJECTED. THE CONTRACTOR MAY PRESENT EQUIPMENT AND MATERIAL ALTERNATES TO THE CONSULTING ENGINEERING FOR APPROVAL PRIOR TO USE DURING CONSTRUCTION.

8. THE CONTRACTOR SHALL CONTACT MISS UTILITY AND HAVE THE EXISTING UNDERGROUND UTILITIES LOCATED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

9. THE CONTRACTOR SHALL MAINTAIN ACCURATE DIMENSIONAL RECORDS OF UTILITY LINE INSTALLATION. A CLEAN AND LEGIBLE COPY OF THESE "AS-BUILT" DOCUMENTS SHALL BE PROVIDED TO THE CONSULTING ENGINEER, THE OWNER, AND THE FRANKLIN COUNTY ENGINEER.

10. CONSTRUCTION STAKEOUT OF THE PROPOSED SANITARY SEWER LINES SHALL BE PERFORMED BY AN ENGINEER OR SURVEYOR LICENSED TO PERFORM SUCH WORK IN THE STATE OF VIRGINIA. CONSTRUCTION STAKEOUT SHALL CONSIST OF ACCURATE HORIZONTAL & VERTICAL POSITIONING WITH APPROPRIATE CONSTRUCTION OFFSETS CLEARLY MARKED AND LABELED AS SUCH.

11. MEASURES TO CONTROL EROSION AND SILTATION MUST BE PROVIDED PRIOR TO PLAN APPROVAL. PLAN APPROVAL IN NO WAY RELIEVES THE DEVELOPER OR CONTRACTOR OF THE RESPONSIBILITIES CONTAINED IN EROSION AND SILTATION CONTROL POLICIES.

12. FIELD CONSTRUCTION SHALL HONOR PROPOSED DRAINAGE DIVIDES AS SHOWN ON PLANS.

13. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AT THE JOB SITE.

14. ALL SPRINGS SHALL BE CAPPED AND PIPED TO THE NEAREST STORM SEWER OR NATURAL WATER-COURSE. THE PIPE SHALL BE MINIMUM OF 6" DIAMETER AND CONFORM TO VDOT STANDARD SB-1.

15. CONSTRUCTION DEBRIS SHALL BE CONTAINED IN ACCORDANCE WITH THE VIRGINIA LITTER CONTROL ACT. NO LESS THAN ONE LITTER RECEPTACLE SHALL BE PROVIDED ON-SITE.

16. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING MUD FROM TRUCKS AND/OR OTHER EQUIPMENT PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE STREETS ARE IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.

17. THE DEVELOPER AND/OR CONTRACTOR SHALL SUPPLY ALL UTILITY COMPANIES WITH COPIES OF APPROVED PLANS, ADVISING THEN THAT ALL GRADING AND INSTALLATION SHALL CONFORM TO APPROVED PLANS.

18. CONTRACTORS SHALL NOTIFY UTILITIES OF PROPOSED CONSTRUCTION AT LEAST TWO, BUT NOT MORE THAN TEN WORKING DAYS IN ADVANCE. AREA PUBLIC UTILITIES MAY BE NOTIFIED THROUGH MISS UTILITY AT (800) 552-7001.

19. GRADE STAKES SHALL BE SET FOR ALL WATERLINE LOCATIONS.

20. LOCATION OF UNDERGROUND UTILITIES IS BASED ON FIELD SURVEYS, AS SHOWN BY AVAILABLE RECORDS, AND AS LOCATED BY THE UTILITY LOCATOR SERVICE. CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.

21. THE SITE WORK AND LANDSCAPING CONTRACTOR(S) SHALL COMPLY WITH LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES, BOTH ON AND OFF THE SITE. REFER TO THE VIRGINIA UNIFORM CODING SYSTEM CONTAINED IN THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION, FOR DETAILS AND SPECIFICATIONS OF EROSION CONTROL ITEMS SHOWN ON THESE PLANS.

22. ALL TRAFFIC CONTROL MUST BE IN ACCORDANCE WITH 2003 VIRGINIA WORK AREA PROTECTION MANUAL.

ADDITIONAL NOTES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROCURING NECESSARY CONSTRUCTION PERMITS INCLUDING BUT NOT LIMITED TO LAND DISTURBING, VDOT ENTRANCE, BUILDING PERMITS, AND CERTIFICATES TO CONSTRUCT. SHOULD ANY PUBLIC AGENCY REQUIRE A CONSTRUCTION BOND PRIOR TO THE ISSUANCE OF A PERMIT, THE CONTRACTOR SHALL DULY NOTIFY THE OWNER SO THAT BOTH PARTIES CAN DETERMINE PROPER RESPONSIBILITY FOR BOND PROCUREMENT AND PAYMENT.

PRIOR TO SUBMITTAL OF THE CONSTRUCTION BID, THE CONTRACTOR SHALL REVIEW THE EXISTING SITE UTILITIES AND IDENTIFY POTENTIAL CONSTRUCTION CONFLICTS. SHOULD ANY UTILITY REQUIRE RELOCATION, THE CONTRACTOR SHALL NOTIFY THE CONSULTING ENGINEER SO THAT APPROPRIATE PLAN ADJUSTMENTS CAN BE MADE.

WORK IN AND NEAR THE PUBLIC RIGHT-OF-WAY SHALL ADHERE TO THE STANDARDS AND PRACTICES OF THE VIRGINIA WORK AREA PROTECTION MANUAL, LATEST EDITION.

SOURCE OF MAPPING AND ROADWAY DESIGN PROVIDED BY PHIL NESTER, L.S., ROCKY MOUNT, VIRGINIA. ACS DESIGN ASSUMES NO DESIGN RESPONSIBILITY FOR THE ROADWAY PLAN & PROFILES INDICATED HEREIN. PLEASE REFER TO ROADWAY PLANS PREPARED FOR LAKEWATCH L.L.C., BY PHIL NESTER.

UPON COMMENCING CONSTRUCTION, THE COUNTY SHALL BE PROVIDED ADEQUATE NOTICE TO MONITOR CONSTRUCTION. COUNTY PERSONNEL OR ITS DESIGNEE SHALL HAVE ACCESS TO THE SITE AT ALL TIMES DURING CONSTRUCTION.

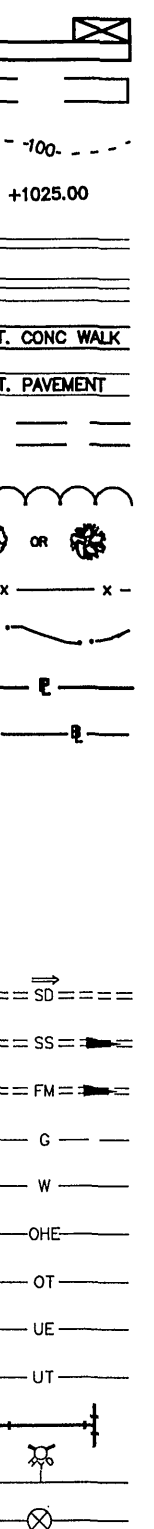
DEVELOPER SHALL PROVIDE NOTICE TO COUNTY PRIOR TO ANY TESTING. COPIES OF ALL TEST REPORTS SHALL BE SUBMITTED TO THE COUNTY FOR RECORD. COUNTY PERSONNEL WILL NOT BE RESPONSIBLE FOR PERFORMING ANY TESTING OR PROVIDING ANY MATERIALS FOR TESTING. COUNTY WILL NOT BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH TESTING.

ABBREVIATIONS

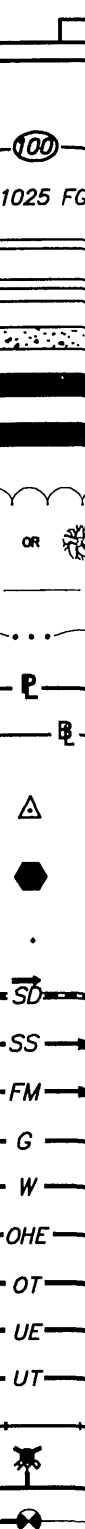
ABAN ABANDON, ABANDONED
ABUT ABUTMENT
ADJ ADJACENT
AGGR AGGREGATE
ALUM ALUMINUM
ANCH ANCHOR
APPROX APPROXIMATE
BDRM BEDROOM
BT BITUMINOUS
BJ BELL JOINT
BL BASE LINE
BEG BEGIN, BEGINNING
BLDG BUILDING
BM BENCH MARK
BSP BLACK STEEL PIPE
BV BUTTERFLY VALVE
BVEZ BEGIN VERTICAL CURVE ELEVATION
BVCS BEGIN VERTICAL CURVE STATION
C & G CURB AND GUTTER
CI CAST IRON
CL CENTER LINE
CLG CEILING
CLO CLOSET
CONST CONSTRUCTION
CMP CORRUGATED METAL PIPE
CMU CONCRETE MASONRY UNITS
CND CONDUIT
CO CLEANOUT
COL COLUMN
COMB COMBINATION
CONC CONCRETE (PORTLAND CEMENT)
CONC CONNECT, CONNECTION
CONTR CONTRACTOR
CONV CONVEYOR
COR CORNER
CPT CARPET
CR STONE
CTR CENTER
CULV CULVERT
D DEPTH OR DEGREE OF CURVE, DRYER
DE DRAINAGE EASEMENT
DI DRAIN INLET
DIAM DIAMETER
DIM DIMENSION
DISC DISCONNECT
DNH DROP MANHOLE
DN DOWN
DR DINING ROOM
DET DETAIL
DW, D/W DRIVEWAY, DISHWASHER
DWL DWELLING
DWG DRAWING
EACH EACH
EASL EASTBOUND LANE
EL ELEV
ELEC ELECTRICAL
ENGR ENGINEER
ENR ENR
EOL END OF LINE
EQ EQUIPMENT
EQPT EQUIPMENT
EVEZ END VERTICAL CURVE ELEVATION
EVSZ END VERTICAL CURVE STATION
EW EACH WAY, ENDWALL
EXT EXISTING
EXT EXTERIOR
FES FINISH END SECTION
FF FINISH FLOOR
FFE FINISHED FLOOR ELEVATION
FIG FIGURE
FINISH FINISH
FL FLOOR
FLEX FLEXIBLE
FLG FLANGE
FT FOOT
FTG FOOTING
FUT FUTURE
GA GAUGE
GAL GALLON
GALV GALVANIZED
GAR GARAGE
GR GROUND
GR GRAVEL
GOVT GOVERNMENT
GPM GALLONS PER MINUTE
GRG GRATING
GV GYPSUM WOOD BOARD
GWB GUTTER AND TAC
HCP HANDICAPPED
HLL HOLLOW METAL
HORIZ HORIZONTAL
HPT HIGH POINT
HPT HOUSE
HYD HYDRANT
ID INSIDE DIAMETER
IN INCH
INSL INSULATION
INVS INVERT
IP IRON PIN (FOUND OR SET NOTED)
KIT KITCHEN
L LENGTH, LONG
LF LINEAL FOOT
LG LONG
LP LIGHT POLE
LR LONG RADIUS, LIVING ROOM
LT LEFT
MAS MASONRY
MATL MATERIAL
MAX MAXIMUM
MB MAIL BOX
MBL MINIMUM BUILDING LINE

MECH, MR MECHANICAL
REF MANUFACTURER
MH MANHOLE
MIN MINIMUM
MECH MECHANICAL JOINT
MON MONUMENT
MTL METAL
NAIL AND CAP
NIC NOT IN CONTRACT
NO NUMBER
NPW NON-POTABLE WATER
NTS NOT TO SCALE
OC ON CENTERS
OD OUTSIDE DIAMETER
OHE OVERHEAD ELECTRIC
OPG OPENING
OSB ORIENTED STRAND BOARD
PMT PAVEMENT
PC POINT OF CURVE
PCC POINT OF COMPOUND CURVE
PER PERIMETER
PERF PERFORATED
PERP PERPENDICULAR
PHNG PRE-HUNG
PI POINT OF INTERSECTION
PL PLATE, PROPERTY LINE
PLST PLASTER
PLYWOOD PLYWOOD
POINT ON LINE
POINT OF TANGENCY
POINT ON TANGENT
POINT OF REVERSE CURVE
POUNDS PER SQUARE INCH
POINT OF TANGENT
POLYVINYL CHLORIDE
POINT OF VERTICAL INTERSECTION
PUBLIC UTILITY EASEMENT
RADIUS, RISER
RAD RADIUS
RCP REINFORCED CONCRETE PIPE
RD ROAD
RDGR REDUCER
REFINCE REINFORCE, REINFORCEMENT
REF REFERENCE, REFRIGERATOR
RELOCATED
REQD REQUIRED
REQD ROOM
REV REVISION
RM ROOM
RTE ROUTE
RIGHT RIGHT
RUB RUBBER
R/W RIGHT OF WAY
S SANITARY
SANITARY SEWER
SD SIDEWALK
SD STORM DRAIN
SE SLOPE EASEMENT
SECT SECTION
SERV SERVICE
SH SHEET
SIMILAR
SPEC SPECIFICATION
SPECIFICATIONS
SQ SQUARE
SS STAINLESS STEEL
STR STREET
STD STANDARD
STL STEEL
STRUCT STRUCTURAL
SUR SURVEY
T & B TOP AND BOTTOM
TELE TELEPHONE
TEMP TEMPORARY
THK THICK
TRYD TREATED
TV TELEVISION
TOP OF WALL
TYP TYPICAL
UE UNDERGROUND ELECTRIC
UNDERGROUND
UT UNDERGROUND TELEPHONE
UL UNDERWRITER LABORATORY
UNLESS OTHERWISE NOTED
UNITED STATES COAST AND GEODETIC SURVEY
VALVE, VENT
V. VAL
VAR VARIABLE
VC VERTICAL CURVE
VERT VERTICAL
VESCR VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS
VINYL
VOL VOLUME
VODOT VIRGINIA DEPARTMENT OF TRANSPORTATION
V.S.D. VERTICAL SIGHT DISTANCE
W.B.L. WESTBOUND LANE
WIDE FLANGE, WIDE, WASTE, WATER, WASHER
WITH
WH WATER HEATER
WL WATER LINE
W/O WITHOUT
WS WATER SURFACE
WATERIGHT, WEIGHT
WEST VIRGINIA DEPARTMENT OF HIGHWAYS
ALGEBRAIC DIFFERENCE
AD

EXISTING



NEW

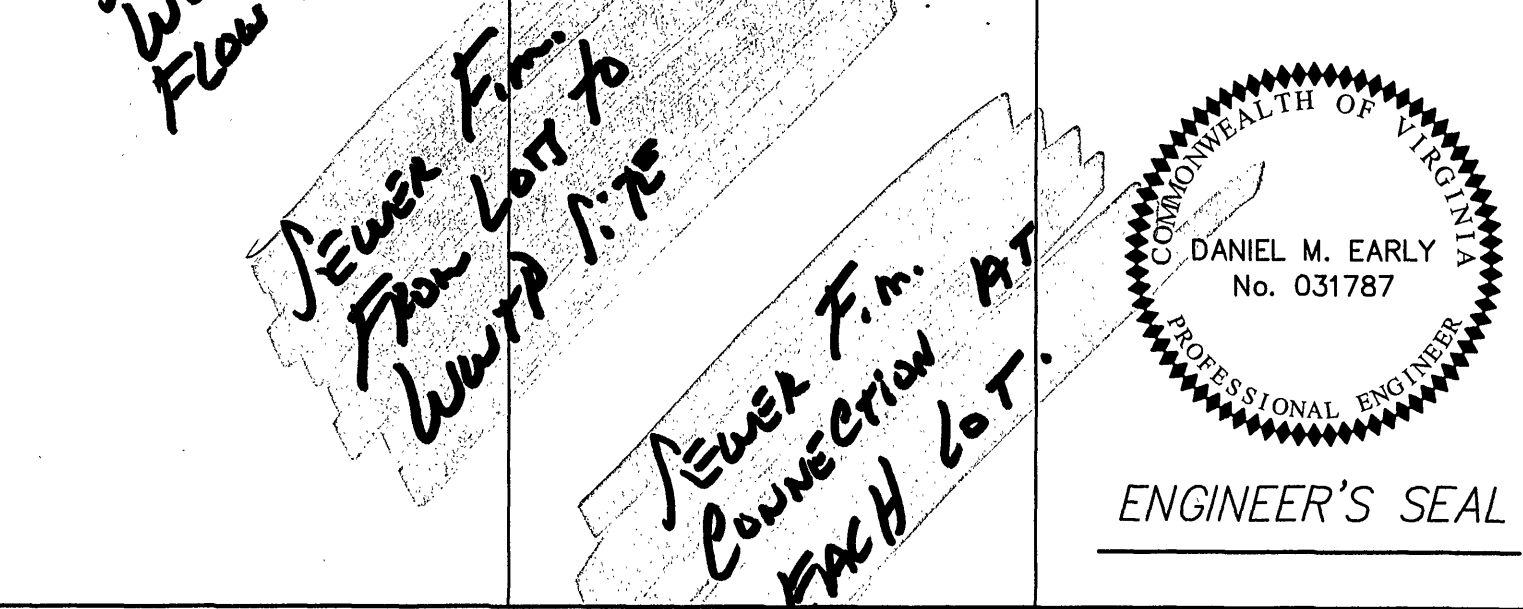
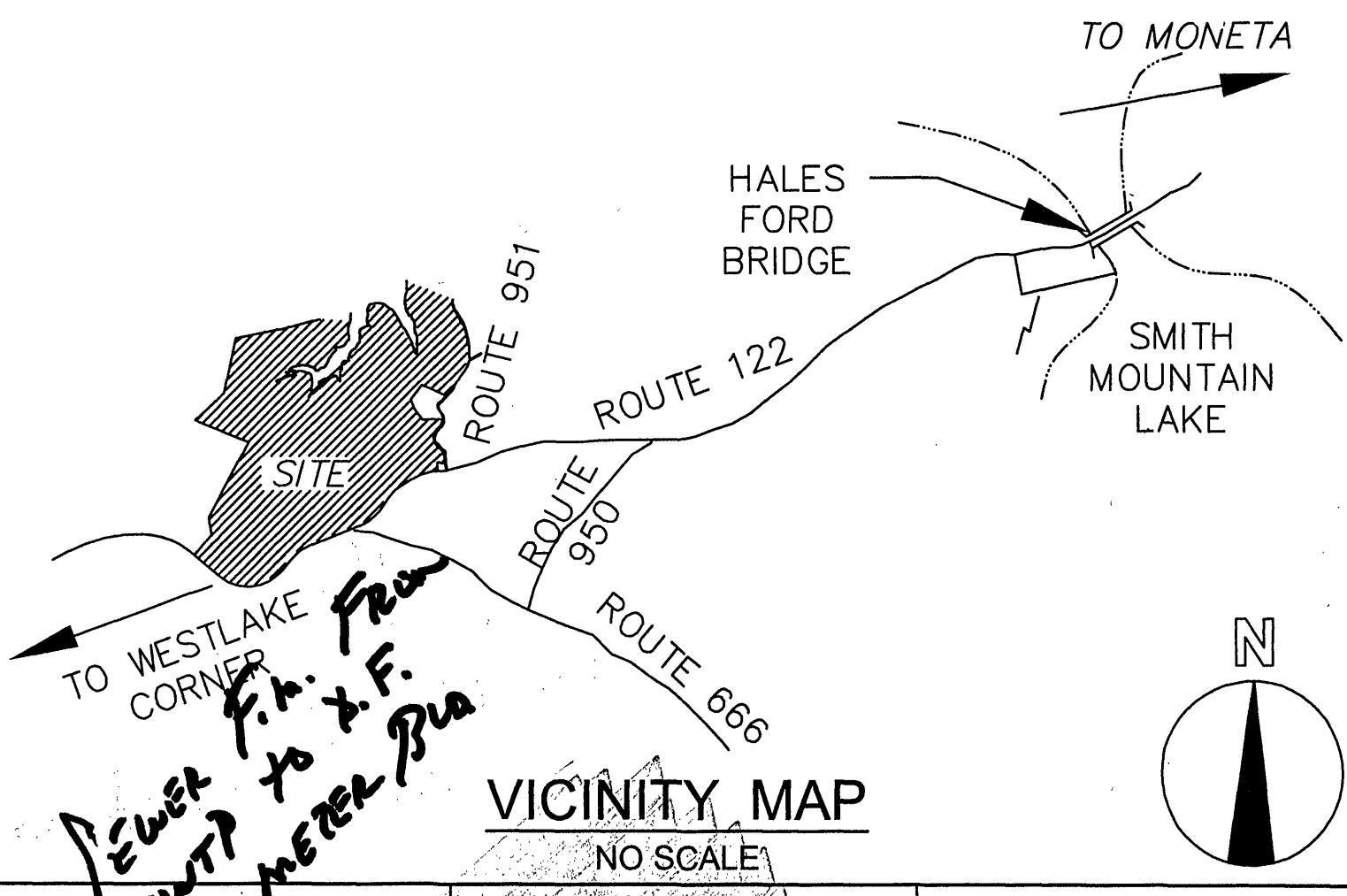


DESCRIPTION

BUILDING WITH PORCH OR STOOP
FOUNDATION ONLY
CONTOUR, CONTOUR WITH ELEVATION
SPOT ELEVATION
CONCRETE CURB
CONCRETE CURB & GUTTER
CONCRETE WALK OR SLAB
PAVEMENT
UNPAVED OR GRAVEL ROAD
TREE LINE
TREE OR SHRUB
FENCE (EXISTING OR PROPOSED NOTED)
CENTERLINE CREEK, SWALE, DITCH
PROPERTY LINE
CENTERLINE OR BASELINE
FIELD SURVEY TRAVERSE POINT
GEOLOGIC BORE HOLE
BENCH MARK (EXISTING OR SET NOTED)
STORM DRAIN
SANITARY SEWER
FORCE MAIN
GAS MAIN OR SERVICE LINE
WATER MAIN OR SERVICE LINE
OVERHEAD ELECTRICAL LINE
OVERHEAD TELEPHONE LINE
UNDERGROUND ELECTRICAL LINE
UNDERGROUND TELEPHONE LINE
PIPE FITTINGS
FIRE HYDRANT
GATE VALVE

SHEET INDEX

- TITLE SHEET
C1.0 PROJECT SCHEMATIC & SHEET INDEX
C1.1 FORCE MAIN FM-100, FM-300 PLAN & PROFILES
C1.2 FORCE MAIN FM-100, FM-100A, FM-300 PLAN & PROFILES
C1.3 FORCE MAIN FM-100, FM-300 PLAN & PROFILES
C1.4 FORCE MAIN FM-100, FM-300 PLAN & PROFILES
C1.5 FORCE MAIN FM-200 PLAN & PROFILES
C1.6 FORCE MAIN FM-200 PLAN & PROFILES
C1.7 FORCE MAIN FM-200 PLAN & PROFILES
C1.8 WWTP & FM-300 METER BUILDING SITE PLANS
C1.9 MASS DRAINFIELD PLAN
C1.10 WWTP GENERAL CONFIGURATION
C1.11 BIO-WHEEL EQUIPMENT PLAN
C1.11A TRIPLE BIO-WHEEL & EFFLUENT TANK LAYOUT PLAN
C1.12 BIO-WHEEL EQUIPMENT SCHEDULE & WWTP NOTES
C1.13 BIO-WHEEL DETAILS
C1.14 BIO-WHEEL DETAILS
C1.15 BIO-WHEEL DETAILS
C1.16 BIO-WHEEL DETAILS
C1.17 BIO-WHEEL DETAILS
C1.18 - C1.18A EFFLUENT STORAGE TANK
C1.19 LAB BUILDING PLAN & ELEVATIONS
C1.20 EFFLUENT METER BUILDING ELEVATION & TYP. SECTION
C1.21 EFFLUENT METER BUILDING FLOOR PLAN & SPEC'S
C1.22 WWTP SCHEMATIC WIRING DIAGRAM
C1.22A WWTP ELECTRICAL FLOW DIAGRAM & NOTES
C1.23 STANDARD DETAILS
C1.24 SANITARY SEWER DETAILS
C1.25 SANITARY SEWER DETAILS
C1.26 E-ONE® DETAILS
C1.27 EROSION CONTROL NARRATIVE AND DETAILS
C1.28 EROSION CONTROL DETAILS



2203 Peters Creek Road, NW
Roanoke, Virginia 24017
Phone: 540 562 2345
Fax: 540 562 2344
Email: aacsroanoke@aol.com
WWW.ACSDESIGNLLC.COM

OWNER: EDWARD C. PARK III
LAKEWATCH, L.L.C.
6720 THIRLANE RD., NW
ROANOKE, VIRGINIA 24019
PHONE: (540) 537-5603

DEVELOPER: SAME AS OWNER

LOCATION: SITUATED ON
ROUTE 122 @ RT. 951
FRANKLIN COUNTY, VIRGINIA

TAX PARCEL ID NO: 15-37, 15-39 THRU 15-42
LEGAL REFERENCE:

LAKEWATCH PLANTATION
COMMUNITY SEWER SYSTEM
PHASE 1
PROJ. NO.: 05076
SET NO. 3
DATE: JAN. 26, 2006

REVISIONS			
No.	Date	Remarks	By
1	12/20/05	CORRECTIONS PER FRANKLIN COUNTY PLANNING & UTILITIES COMMENTS	CEK
2	01/11/06	CORRECTIONS PER VDH COMMENTS	CEK
3	01/26/06	CORRECTIONS PER VDH COMMENTS	CEK

RESPONSIBLE LAND DISTURBER CERTIFICATION

PRINTED NAME _____
SIGNATURE _____
COMPANY NAME _____ CONTACT ADDRESS _____ PHONE NUMBER _____
RESPONSIBLE LAND DISTURBER CERTIFICATION # _____

OWNER / DEVELOPER CERTIFICATION

THE OWNER / DEVELOPER CERTIFIES THAT THEY UNDERSTAND THE SITE DESIGN REQUIREMENTS IMPOSED BY THE SITE DEVELOPMENT PLANS AND APPLICABLE COUNTY CODES, AS SHOWN HEREON, AND AGREES TO COMPLY WITH THESE PLANS DURING CONSTRUCTION, UNLESS MODIFICATIONS TO PLANS ARE APPROVED BY _____ COUNTY.
OWNER REPRESENTATIVE _____

STATE OF VIRGINIA

OF _____
I, _____, A NOTARY PUBLIC IN AND FOR THE AFORESAID COUNTY AND STATE DO HEREBY CERTIFY THAT _____ WHOSE NAME IS SIGNED TO THE FOREGOING _____
WRITING DATED _____
HAS PERSONALLY APPEARED BEFORE ME IN MY AFORESAID COUNTY AND STATE AND ACKNOWLEDGED THE SAME ON _____
MY COMMISSION EXPIRES _____
NOTARY PUBLIC