## ENGINEERS NOTES

BALZER AND ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR ADEQUACY OF PLANS OR FOR INFORMATION ON PLANS UNTIL SUCH PLANS HAVE BEEN APPROVED BY THE REQUIRED PUBLIC AGENCIES.

ANY WORK COMMENCED ON A PROJECT PRIOR TO PLAN APPROVAL IS AT SOLE RISK OF THE DEVELOPER.

BALZER AND ASSOCIATES, INC. WILL NOT BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE PLANS OR WILL NOT BE RESPONSIBLE FOR ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR THEIR AGENTS OR EMPLOYEES, OR OF ANY OTHER PERSONS PERFORMING PORTIONS OF THE WORK.

SOURCE OF TOPOGRAPHIC MAPPING IS FIELD SURVEY PERFORMED BY BALZER AND ASSOCIATES, INC., DATED 2013 AND TOPOGRAPHIC INFORMATION PROVIDED BY LUMSDEN P.C. DATED 2001.

#### **LEGEND**

CONCRET  ASPHALT			(T.B.R.)
	LASSANIVAI		, ,
	ADJOINER PROPERTY LINE	——Т	PROP. TELEPHONE LINE
·	SITE PROPERTY LINE	G	PROP. GAS LINE
	CENTERLINE OF ROADS	P	PROP. UNDERGROUND POWER
ОНИ	EXIST. OVERHEAD CABLES -	8"W	PROP. WATERLINE
==8" $w==$	EXIST. WATER LINE	8"SS	PROP. SANITARY SEWER LINE
==8"ss==	EXIST. SANITARY SEWER		PROP. STORM SEWER LINE
= =18"rcp = =	EXIST. STORM SEWER	$\sim\sim$	PROP. TREELINE
~~~~	EXIST. TREELINE	<u> </u>	BENCHMARK
	EXIST. EDGE OF PAVEMENT	751.05	
_VVVV	WETLAND BOUNDARY	351.95 351.45	PROP. TOP & BOTTOM OF CURB
<i>348.55</i> ×	EXIST. SPOT ELEVATION	348	PROP. CONTOURS
<i>348</i>	EXIST. INTERMEDIATE CONTOURS	0	TYPICAL YARD HYDRANT
—— <i>345</i> — —	EXIST. INDEX CONTOURS	<del>-</del>	PROP. FIRE HYDRANT
$\circlearrowleft$	EXIST. POWER POLE	<del>-</del>	PROP. SIAMESE CONNECTION
ŧ	EXIST. TELEPHONE	×	PROP. YARD LIGHT
¤	EXIST. LIGHT POLE	•	PROP. GATE VALVE
	EXIST. FEATURES TO BE REMOVED	x	PROP. FENCE
x	EXIST. FENCE		FLOW ARROW
EX.	EXIST. FENCE	PROP.	PROPOSED

# **ABBREVIATIONS**

AHFH	ARROW HEAD TOP OF	EW	ENDWALL	SAN	SANITARY		
АПГП	FIRE HYDRANT	EXIST	EXISTING	SBL	SOUTH BOUND LANE		
APPROX	APPROXIMATE	FDN	FOUNDATION	SD	STORM DRAIN		
ASPH	ASPHALT	FF	FINISHED FLOOR	SECT	SECTION		
BC	BOTTOM OF CURB	FG	FINISH GRADE	SE	SLOPE EASEMENT		
BIT	BITUMINOUS	HOA	HOMEOWNERS ASSOCIATION	SS	SANITARY SEWER		
BLDG	BUILDING	HPT	HIGH POINT	SSE	SANITARY SEWER EASEMEI		
BLK	BLOCK	INTX	INTERSECTION	STA	STATION		
ВМ	BENCHMARK	INV	INVERT	STD	STANDARD		
BW	BOTTOM OF WALL	ΙP	IRON PIN	STO	STORAGE		
СВ	CINDER BLOCK	LT	LEFT	SYS	SIDE YARD SETBACK		
C&G	CURB & GUTTER	MH	MANHOLE	TBM	TEMPORARY BENCHMARK		
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	TBR	TO BE REMOVED		
CONC	CONCRETE	MBL	MINIMUM BUILDING LINE	TC	TOP OF CURB		
COR	CORNER	MON	MONUMENT	TEL	TELEPHONE		
DBL	DOUBLE	NBL	NORTH BOUND LANE	TRANS	TRANSFORMER		
DEFL	DEFLECTION	PROP	PROPOSED	TW	TOP OF WALL		
DI	DROP INLET	PUE	PUBLIC UTILITY EASEMENT	TYP	TYPICAL		
DIA	DIAMETER	PVMT	PAVEMENT	VDOT	VIRGINIA DEPARTMENT OF		
DE	DRAINAGE EASEMENT	R	RADIUS		TRANSPORTATION		
ELEC	ELECTRIC	RT	RIGHT	VERT	VERTICAL		
ELEV	ELEVATION	R.O.W.	RIGHT OF WAY	WBL	WEST BOUND LANE		
ENTR	ENTRANCE	REQD	REQUIRED	WVWA	WESTERN VIRGINIA		
EP	EDGE OF PAVEMENT	RR	RAILROAD		WATER AUTHORITY		

REAR YARD SETBACK

YARD



1530 & 1684 COURTLAND ROAD N.E. **ROANOKE, VIRGINIA 24019** 

## SHEET INDEX

CO1 CIVIL COVER SHEET CO2 EXISTING CONDITIONS & DEMOLITION PL CO3 EXISTING CONDITIONS & DEMOLITION PL CO4 MASTERPLAN CO5 LAYOUT & UTILITY PLAN A CO6 LAYOUT & UTILITY PLAN B CO7 COURTLAND ROAD LAYOUT PLAN - SEMBLE A CO9 GRADING PLAN A CO9 GRADING PLAN B C10 COURTLAND ROAD GRADING PLAN C11 UTILITY SCHEDULES C12 E.S.C. PLAN A - PHASE 1 C13 E.S.C. PLAN B - PHASE 1 C14 E.S.C. PLAN B - PHASE 1 C15 S.W.M. POND DETAILS A C15A S.W.M. POND DETAILS A C15B S.W.M. POND DETAILS C C16 E.S.C. DETAILS C17 E.S.C. NOTES C18 PROFILES A C19 PROFILES B - WATER AS- BOULT. C20 DETAILS A C21 DETAILS C C23 NOTES C24 LANDSCAPE PLAN A C25 LANDSCAPE PLAN B C26 W. VA. REGIONAL WATER DETAILS C27 W. VA. REGIONAL WATER DETAILS C28 EXTERIOR LIGHTING DETAILS	AN E
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#### WESTERN VIRGINIA WATER AUTHORITY NOTES

AVAILABILITY No.: 14-059

GENERAL NOTES: A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE WESTERN VIRGINIA WATER AUTHORITY TO BE HELD AT LEAST ONE (1) DAY PRIOR TO ANY CONSTRUCTION OF THE APPROVED WATER AND SANITARY SEWER FACILITIES.

A MINIMUM COVER OF THREE (3) FEET IS REQUIRED OVER PROPOSED LINES.

ALL SANITARY SEWER AND WATER CONNECTIONS TO EXISTING LINES SHALL BE COORDINATED WITH AND PERFORMED BY THE WESTERN VIRGINIA WATER AUTHORITY.

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING VALVE VAULTS, MANHOLES, ETC. AFTER PAVING AND ADJUSTING TO FINAL GRADE IF NECESSARY.

ALL EXISTING UTILITIES MAY NOT BE SHOWN OR MAY NOT BE SHOWN IN THE EXACT LOCATION. THE CONTRACTOR SHALL COMPLY WITH THE STATE WATER WORKS REGULATIONS, SECTION 12.05.03, WHERE LINES CROSS.

ALL TRENCHES IN EXISTING OR FUTURE HIGHWAY RIGHT-OF-WAYS SHALL BE COMPACTED ACCORDING TO CITY OF ROANOKE STANDARDS. LINES SHALL BE STAKED PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL REFER TO THE WESTERN VIRGINIA WATER AUTHORITY STANDARD WATER AND SEWER REGULATIONS FOR CONSTRUCTION DETAILS AND INSTALLATION METHODS AS REQUIRED TO COMPLETE THE PROPOSED UTILITY FACILITIES AS INDICATED BY THESE DRAWINGS. FIELD CORRECTIONS SHALL BE APPROVED BY THE WVWA ENGINEERING DIVISION PRIOR TO SUCH CONSTRUCTION.

THE CONTRACTOR SHALL PROVIDE THE WESTERN VIRGINIA WATER AUTHORITY WITH CORRECT AS-BUILT PLANS PRIOR TO SUBSTANTIAL COMPLETION OF ANY NEW PUBLIC EXTENSIONS.

WATER MAINS SHALL BE MINIMUM CLASS 350 DUCTILE IRON IN ACCORDANCE TO AWWA C151 OR DR-14 PVC IN ACCORDANCE WITH AWWA C-900.

WATER LATERALS FROM THE METER TO THE BUILDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.

THE CONSTRUCTION OF THE PROPOSED PUBLIC WATER MAIN AND ALL COMMERCIAL SERVICES SHALL BE IN COMPLIANCE WITH THE CURRENT WESTERN VIRGINIA WATER AUTHORITY REGULATIONS. REFER TO THESE REGULATIONS FOR COMPLETE DETAILS AND INSTALLATION METHODS.

COMMERCIAL SANITARY SEWER LATERAL SHALL BE MINIMUM 6" PIPE INSTALLED AT SLOPES AS SHOWN ON THE PLAN.

THE LATERALS AND REQUIRED FITTINGS LOCATED WITHIN A PUBLIC RIGHT-OF-WAY OR PUBLIC EASEMENT SHALL BE OF THE SAME TYPE OF MATERIAL AS THE MAINLINE SEWER PIPE.

THE CONSTRUCTION OF THE PROPOSED PUBLIC SEWER MAIN AND ALL COMMERCIAL SERVICES SHALL BE IN COMPLIANCE WITH THE CURRENT WESTERN VIRGINIA WATER AUTHORITY REGULATIONS. REFER TO THESE REGULATIONS FOR COMPLETE DETAILS AND INSTALLATION METHODS.

ALL SANITARY SEWER PIPING SHALL BE PVC (POLYVINYL CHLORIDE) MANUFACTURED IN ACCORDANCE WITH ASTM DESIGNATION 3034-77 (SDR 35) UNLESS OTHERWISE NOTED ON THE PLANS/PROFILES.

ALL MANHOLE FRAMES AND COVERS SHALL BE WATERTIGHT AND ALL COVERS SHALL BE BOLT-DOWN MANHOLE COVERS (SEE DETAIL S-05 AND S-06) WHERE APPLICABLE.

SITE INFORMATION

360 TOYOTA, L.L.C. ATTN: MR. DOUG PRIDGEN 3600 LONAS PARKWAY MIDLOTHIAN, VA 23112

PROPERTY OWNER: CITY OF ROANOKE

CONTRACT PURCHASER/DEVELOPER:

**EXISTING USE:** (CURRENTLY VACANT) PROPOSED USE: MOTOR VEHICLE SALES, SERVICE (NEW & USED), REPAIR & BODY SHOP CLS(c) - COMMERCIAL LARGE SITE WITH CONDITIONS **ZONING:** 

Phone: (804) 320-9058

ORDINANCE NUMBER (39763-091613) TAX PARCEL NO.S: 3070316 & 3070322

SITE AREA: 18.79 ACRES DISTURBED AREA: 17.1 ACRES

WATER/SEWER: PUBLIC BY WESTERN VIRGINIA WATER AUTHORITY

BUILDING AREA/NO. OF STORIES: TOTAL BUILDING S.F. ON-SITE - APPROX. 71.550 S.F. RETAIL: 14,762 OFFICE: 8,274

WAREHOUSE/SHOP: 48,514 MINIMUM PARKING REQUIRED: 1 SPACE PER 750 S.F. OF NET FLOOR AREA - AUTO SALES

> 11,072 S.F.(NET) = (15 SPACES REQ'D)1 SPACE PER 300 S.F. OF NET FLOOR AREA - OFFICE 6,206 S.F.(NET) = (21 SPACES REQ'D)1 SPACE PER 1.5 SERVICE BAYS - AUTO SERVICE

49 SERVICE BAYS = (33 SPACES REQ'D)

69 SPACES REQ'D x 1.4 MAX ALLOWABLE = 97 MAX ALLOWABLE (NOTE: MAX ALLOWABLE PARKING DOES NOT INCLUDE HC. PARKING)

574 PARKING SPACES TOTAL
83 SPACES SALES/SERVICE/EMPLOYEES (INDICATED W/A BOX-SHT.C05) PARKING PROVIDED

438 EXTERIOR VEHICLE DISPLAY SPACES 53 DAMAGED VEHICLES (SCREENED FROM VIEW)

LOADING SPACES REQUIRED/PROVIDED: 1 REQUIRED/1+PROVIDED **SETBACKS:** FRONT: O' MINIMUM / NO MAXIMUM SIDE:

**REAR:** MAX. FLOOR AREA RATIO ALLOWED/PROVIDED: 5.0/0.75

VIRGINIA WATER AUTHORITY.

COMPREHENSIVE SITE PLAN NUMBER:

CP130063

IMPERVIOUS SURFACE RATIO ALLOWED/PROVIDED: 80%/APPROX. 77% (DEVELOPMENT AREA)

60'/56'-4" TOP OF ROOF (63.5' TOP OF PARAPET) MAXIMUM BUILDING HEIGHT ALLOWED/PROPOSED:

## ZONING CONDITIONS

1. THE SOUTH, WEST, AND EAST SIDE OF THE PROPOSED BUILDING SHALL BE CLAD IN MATERIAL(S) OTHER THAN METAL BUILDING PANELS.

2. A MINIMUM OF ONE LARGE DECIDUOUS TREE PER 50 FEET WILL BE PLANTED ALONG COURTLAND AND ALONG THE PROPOSED ENTRANCE DRIVE. WITHIN THE CUSTOMER PARKING AREA A MINIMUM OF 1 LARGE DECIDUOUS TREE SHALL BE PLANTED IN EACH REQUIRED LANDSCAPE ISLAND.

3. AN ENTRY FEATURE WILL BE PROVIDED AT THE ENTRANCE ON COURTLAND AND SHALL CONSIST OF TREES, SHRUBS, AND/OR ARCHITECTURAL FEATURES.

4. CURB, GUTTER, SIDEWALK, AND STREET TREES SHALL BE PROVIDED ALONG APPROXIMATELY 165 LINEAR FEET OF

THE COURTLAND ROAD RIGHT OF WAY ON THE SOUTHEASTERN MOST PORTION OF THE SUBJECT PROPERTY. STANDARD CITY OF ROANOKE

# CONSTRUCTION PROCEDURE REQUIREMENTS

NOTICE TO ALL LANDOWNERS, DEVELOPERS, AND CONTRACTORS:
FAILURE TO COMPLY WITH THE CONSTRUCTION PROCEDURE REQUIREMENTS LISTED BELOW MAY RESULT IN THE COSTLY REMOVAL OF STRUCTURES, TIME DELAYS, OR THE ISSUANCE OF A STOP WORK ORDER!

RIGHT-OF-WAY EXCAVATION PERMIT: PRIOR TO THE COMMENCEMENT OF ANY DIGGING ALTERATION, OR CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY (STREETS, ALLEYS, PUBLIC EASEMENTS), A RIGHT-OF-WAY EXCAVATION PERMIT SHALL BE APPLIED FOR AND OBTAINED BY THE CONTRACTOR FROM THE CITY OF ROANOKE.

LAND DISTURBANCE PERMIT: AN APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR ANY BORROW/FILL SITES ASSOCIATED WITH THE PROJECT MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A LAND DISTURBANCE PERMIT

PLANS AND PERMITS: A COPY OF THE PLANS AS APPROVED BY THE CITY OF ROANOKE (SIGNED BY THE PROPER CITY OFFICIALS) AND ALL PERMITS ISSUED BY THE CITY SHALL BE MADE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES OF ONGOING CONSTRUCTION.

LOCATION OF UTILITIES: THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

CONSTRUCTION ENTRANCE: THE CONTRACTOR SHALL INSTALL AN ADEQUATE CONSTRUCTION ENTRANCE FOR ALL CONSTRUCTION RELATED EGRESS FROM THE SITE. SIZE AND COMPOSITION OF THE CONSTRUCTION ENTRANCE SHALL BE AS SHOWN ON THE PLANS.

STREETS TO REMAIN CLEAN: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT THE PUBLIC STREET ADJACENT TO THE CONSTRUCTION ENTRANCE REMAINS FREE OF MUD, DIRT, DUST, AND/OR ANY TYPE OF CONSTRUCTION MATERIALS OR LITTER AT ALL TIMES.

BARRICADES/DITCHES: THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL EXCAVATED DITCHES AND SHALL FURNISH AND ENSURE THAT ALL BARRICADES PROPER AND NECESSARY FOR THE SAFETY OF THE PUBLIC ARE IN PLACE.

<u>SEWER AND PAVEMENT REPLACEMENT:</u> CONSTRUCTION OF SANITARY SEWERS AND THE REPLACEMENT OF PAVEMENT SHALL BE IN ACCORDANCE WITH APPROVED STANDARDS AND SPECIFICATIONS OF THE CITY OF ROANOKE AND THE WESTERN

<u>APPROVED PLANS/CONSTRUCTION CHANGES:</u> ANY CHANGE OR VARIATION FROM CONSTRUCTION DESIGN AS SHOWN ON THE OFFICIALLY APPROVED PLANS SHALL BE APPROVED BY THE EROSION AND SEDIMENT CONTROL AGENT PRIOR TO SAID CHANGES OR VARIATION IN CONSTRUCTION BEING MADE.

FINAL ACCEPTANCE/CITY: THE OWNER OR DEVELOPER SHALL FURNISH THE CITY OF ROANOKE'S PLANNING BUILDING AND DEVELOPMENT DEPARTMENT WITH A FIELD SURVEYED FINAL CORRECT SET OF AS-BUILT PLANS OF THE NEWLY CONSTRUCTED STORM DRAIN AND/OR STORMWATER MANAGEMENT FACILITIES PRIOR TO FINAL ACCEPTANCE AND ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE CITY. AS-BUILT PLANS SHALL BE PROVIDED IN THE STATE PLANE VIRGINIA SOUTH COORDINATE SYSTEM, NAD 1983, FIPS 4502 FEET, US SURVEY FEET, DATUM NA 83, IN THE FORM OF 1 PAPER COPY AND 1 DIGITAL AUTOCAD FILE.

City of Roanoke Planning Building and Development

**DEVELOPMENT PLAN APPROVED** 

Agent, Planning Commiss Development Engineer Recourse

Zoning Administrator Any changes to this approved plan must be coordinated with the Agent to the Planning Commission and revisions approved prior to construction.

CITY OF ROANOKE APPROVAL BLOCK

19 20

REFLECTING TOMORROY

www.balzer.cc **New River Valley** 

Shenandoah Valley

RESIDENTIAL LAND DEVELOPMENT ENGINEERING SITE DEVELOPMENT ENGINEERING LAND USE PLANNING & ZONING LANDSCAPE ARCHITECTURE LAND SURVEYING ARCHITECTURE STRUCTURAL ENGINEERING

Balzer and Associates, Inc.

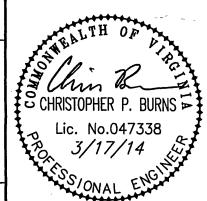
1208 Corporate Circle

TRANSPORTATION ENGINEERIN

ENVIRONMENTAL & SOIL SCIENCE WETLAND DELINEATIONS & STREAM EVALUATIONS

Roanoke, VA 24018 540-772-9580 FAX 540-772-8050

AS- BUILTS



3HE

DRAWN BY DESIGNED BY CHECKED BY 12/12/2013

SCALE **REVISIONS:** 2/10/2014

3/17/2014

SHEET NO.