

CONTRACTOR TO COORDINATE WITH THE WWA FOR EXISTING WATERLINE SIZE AND COORDINATE USE OF EXISTING INFRASTRUCTURE.

HERSHBERGER ROAD, N.W.
RTE 625, VARIABLE WIDTH

SPECIAL NOTE TO CONTRACTOR FOR WORK AROUND HERSHBERGER ROAD:
WORK ADJACENT TO HERSHBERGER ROAD WILL REQUIRE SOME TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL COORDINATE WORK WITH MARK JAMISON (853-5471). LANE CLOSURE OF A SINGLE LANE IS ANTICIPATED. THE WORK ADJACENT TO HERSHBERGER ROAD SHALL OCCUR BETWEEN THE HOURS OF 9AM AND 4PM DURING THE WEEK.

UTILITY NOTES:

1. WHILE CERTAIN UTILITIES ARE SHOWN, OTHER UNDERGROUND UTILITIES MAY BE ENCOUNTERED DURING CONSTRUCTION. PARKER DESIGN GROUP DOES NOT WARRANT LOCATION OR DEPTH OF ANY UTILITIES SHOWN. THE CONTRACTOR SHALL COORDINATE WITH "MISS UTILITY" PRIOR TO CONSTRUCTION AND ALL UTILITY DEPARTMENTS TO DETERMINE IF THE ENCOUNTERED UTILITY IS PUBLIC OR PRIVATE AND TAKE PROPER AND ADEQUATE METHODS TO PROTECT, IF NECESSARY.
2. WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE GOVERNING AUTHORITIES FOR UTILITY INSTALLATIONS. ALL NEW UTILITIES SHALL BE INSTALLED UNDERGROUND.
3. EACH NEW UTILITY CONNECTIONS MUST BE COORDINATED WITH THEIR RESPECTIVE UTILITY COMPANIES. THE PROPOSED WATER AND SEWER CONNECTIONS MUST BE COORDINATED WITH THE WESTERN VIRGINIA WATER AUTHORITY (WWA) PRIOR TO ANY CONNECTIONS.
4. CONTRACTOR SHALL COORDINATE AND PROVIDE A NEW SANITARY SEWER LATERAL CONNECTION TO EXISTING MANHOLE AS SHOWN. CONNECTION SHALL CONSIST OF CORING EXISTING MANHOLE & INSTALLING A FLEXIBLE BOOT.
5. AN EXISTING WATER METER IS PRESENT AT THE EXISTING ENTRANCE. THE CONTRACTOR SHALL COORDINATE CONNECTION OF METER AND WATER LATERAL WITH THE WWA. IF THE INFRASTRUCTURE WILL ACCOMMODATE A 3/4-INCH METER, THE CONTRACTOR SHALL INSTALL A NEW 3/4-INCH WATER METER AND A 1" DOMESTIC LINE OF SEAMLESS, TYPE K COPPER, MEETING THE REQUIREMENTS OF ASTM B88 OR AN APPROVED EQUIVALENT AS ALLOWED BY WWA. IF THE INFRASTRUCTURE WILL NOT ALLOW A 3/4-INCH METER, THE CONTRACTOR SHALL INSTALL A 5/8-INCH METER AND 1" DOMESTIC LINE. THE METER SHALL REMAIN IN THE CONCRETE SIDEWALK AS SHOWN ON THE PLANS. INSTALLATION OF THE DOMESTIC LINE SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS.
6. FROM THE EXISTING SANITARY SEWER CONNECTION POINT, THE CONTRACTOR SHALL INSTALL A 6" LATERAL SERVICE TO THE BUILDING AT A MINIMUM SLOPE OF 1%. THE LATERAL SHALL BE SCHEDULE 40 PVC OR AN APPROVED EQUIVALENT AS ALLOWED BY LOCALITY. A 12 GAUGE TRACER WIRE SHALL BE ATTACH TO THE NEW SANITARY SEWER LATERAL IN ACCORDANCE WITH DETAIL ON SHEET C06. CLEANOUTS IN TRAFFIC AREAS SHALL HAVE TRAFFIC BEARING COVERS AS SPECIFIED ON SHEET C09.
7. TELEPHONE, ELECTRICAL, CABLE & GAS UTILITY CONNECTIONS ARE REQUIRED. THE LOCATION OF UTILITIES MUST BE VERIFIED WITH ARCHITECTURAL PLANS. ONCE LOCATIONS LEAVING THE BUILDING HAVE BEEN FINALIZED, CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS WITH THEIR RESPECTIVE AUTHORITY.
8. ROOF DOWN SPOUT LOCATIONS ARE SHOWN ON THE ARCHITECTURAL PLAN IN THREE LOCATIONS. ALL DOWN SPOUTS MUST BE PIPED TO SOUTHWEST CORNER OF BUILDING & DISCHARGE TO PARKING LOT CURB. ROOF RUNOFF SHALL FLOW TO "VOLUME STORMFILTER" STRUCTURE.

DRAINAGE PIPE NOTES:

1. 12-INCH PIPE FROM "VOLUME STORMFILTER" TO INFILTRATION PIPES SHALL BE ALUMINIZED, TYPE II STEEL, 14 GAGE PIPE (ACMP), SMOOTH INTERIOR. BEDDING SHALL BE IN ACCORDANCE WITH VDOT DETAIL "PB-1" SHOWN IN DETAIL 107.01 WITH THE FOLLOWING NOTED SPECIFICATIONS:
 - A. CLASS I & CLASS II BEDDING SHALL BE #26 OR #68 CRUSHED STONE.
 - B. CONTRACTOR SHALL HAND COMPACT MATERIAL UNDER PIPE HAUNCHES.
 - C. "NORMAL EARTH FOUNDATION" DETAILS APPLY FOR THE PIPE BACKFILL, BOTH WITH "PIPE PROJECTING ABOVE GROUND LINE"
 - D. SOIL MATERIAL PLACED ABOVE STONED BACKFILL SHALL BE PLACED IN 8" MAXIMUM LIFTS AND COMPACTED TO 95% STANDARD PROCTOR.
2. ALL UNDERGROUND INFILTRATION PIPE SHALL BE ALUMINIZED, TYPE II STEEL, 14 GAGE PIPE, WITH PERFORATIONS (ACMP). SPECIAL ATTENTION IS DRAWN TO SOIL SPECIFICATIONS BELOW AND ABOVE PIPE, AS WELL AS STONE ENCASEMENT TO SUPPORT PIPE.
3. ACCESS PORTS FROM THE UNDERGROUND INFILTRATION PIPE SHALL BE AS FOLLOWS:
 - A. ACCESS PORTS "1", "4", AND "5" SHALL CONSIST OF 24" RISER, WITH 22" GRATE TOP AND CONCRETE COLLAR POURED AROUND RISER TO SUPPORT GRATE TOP. CONTRACTOR TO CAST GRATE FRAME IN CONCRETE COLLAR. SEE DETAIL ON ANOTHER SHEET.
 - B. ACCESS PORTS "3", AND "6" SHALL CONSIST OF 12" ACCESS PORT AS CONSTRUCTED BY THE MANUFACTURER WITH SOLID COVER.

- ⑥ 30" GRATE INLET ACCESS PORT TO VOLUME STORMFILTER
TOP = 199.50
BOX INV = 191.00
- ⑤ 30" FRAME & COVER ACCESS PORT TO VOLUME STORMFILTER
TOP = 200.00
BOX INV = 191.00
- ② PIPE JUNCTION:
12" ACMP INV = 190.00
36" ACMP INV = 188.00
36" ACMP INV = 188.00
- ⑤ - ② 8.8 LF, 12" ALUM, TYPE II STEEL, 14 GAGE @ 11.44% SLOPE
INV. OUT=191.00 (12")
INV. IN=190.00 (12")
- ① - ② 28.5 LF, 36" ALUM, TYPE II STEEL, 14 GAGE, @ 0.00% SLOPE
INV. OUT=188.00 (36")
INV. IN=188.00 (36")

- ① 24" GRATE INLET ACCESS PORT TO INFILTRATION PIPE
TOP = 192.50
36" ACMP INV = 188.00
- ④ 24" GRATE INLET ACCESS PORT TO INFILTRATION PIPE
TOP = 192.50
36" ACMP INV = 188.00
- ② - ④ 24.0 LF, 36" ACMP @ 0.00% SLOPE
36" INV. OUT=188.00
36" INV. IN=188.00
- ③ 12" FRAME & COVER ACCESS PORT TO INFILTRATION PIPE
TOP = 196.00
36" ACMP INV = 188.00
- ① - ③ 40.0 LF, 36" ACMP @ 0.00% SLOPE
36" INV. OUT=188.00
36" INV. IN=188.00

- EX-1 NEW 15" INV CUT IN EXISTING STRUCTURE
15" INV IN = 195.30
- EX-1 - ⑧ 35.0 LF, 15" RCP @ 1.27% SLOPE
15" INV. IN=195.75
36" INV. OUT=195.30
- ⑧ 48" Ø BASE WITH VDOT STD MH-1 TOP
TOP = 201.15
15" INV. IN=195.85
15" INV. OUT = 195.75
- ⑧ - ⑦ 64.7 LF, 15" RCP @ 1.00% SLOPE
15" INV. IN=196.50
36" INV. IN=195.85
- ⑦ 15" RCP INV OUT FROM VOLUME STORMFILTER
15" RCP INV OUT = 196.50

WATER NOTES:

THIS PROJECT REQUIRES THE INSTALLATION OF A WATER LATERAL TYING INTO THE EXISTING WATER MAIN. THE SITE REQUIRES ONE 3/4" METER & 1" WATER LINE.

THE CONTRACTOR SHALL CONTACT THE WESTERN VIRGINIA WATER AUTHORITY (WWA) AT 853-5700 AT LEAST THREE (3) DAYS PRIOR TO REQUIRING ACTUAL CONNECTIONS.

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

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING VALVE VAULTS AFTER PAVING AND ADJUSTMENT 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 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 VDOT STANDARDS.

LINES SHALL BE STAKED PRIOR TO CONSTRUCTION.

APPLICATION FOR UTILITIES TO SERVE DEVELOPMENT REFERENCE WWA.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE WWA WATER AND SEWER STANDARDS.

SEWER NOTES:

THIS PROJECT REQUIRES THE INSTALLATION OF A COMMERCIAL SANITARY SEWER LATERAL AND A SAMPLING MANHOLE.

THE CONTRACTOR SHALL CONTACT THE WESTERN VIRGINIA WATER AUTHORITY (WWA) AT 853-5700 AT LEAST THREE (3) DAYS PRIOR TO REQUIRING ACTUAL CONNECTIONS.

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

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

ALL SANITARY SEWER CONNECTIONS TO EXISTING LINES SHALL BE COORDINATED WITH THE WWA.

LATERALS FROM MANHOLES SHALL BE P.V.C. OR DUCTILE IRON OF SUFFICIENT LENGTH TO PROVIDE TWO (2) FEET OF BEARING ON NATURAL GROUND. THE TRANSITION FROM DUCTILE IRON TO CONCRETE PIPE SHALL BE MADE WITH AN ADAPTER IN THE RIGHT OF WAY.

ALL TRENCHES IN EXISTING OR FUTURE HIGHWAY RIGHT OF WAYS SHALL BE COMPACTED ACCORDING TO VDOT STANDARDS.

LINES SHALL BE STAKED PRIOR TO CONSTRUCTION.

ALL CONSTRUCTION AND FACILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE WWA DESIGN AND CONSTRUCTION STANDARDS AND DETAILS, FIRST EDITION, DATED JULY 2004.

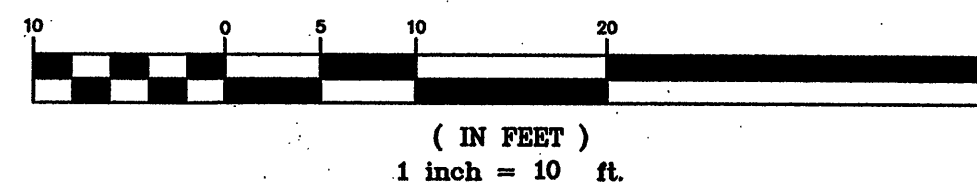
WWA AVAILABILITY #08-058:
DEVELOPER IS RESPONSIBLE FOR ALL WATER AND SEWER FEES TO THE WESTERN VIRGINIA WATER AUTHORITY, INCLUDING PAYMENT, DELIVERY, AND INSTALLATION. CONTACT WWA INSPECTOR AT 540-537-3243 PRIOR TO CONSTRUCTION FOR COORDINATION OF TAPS AND UTILITY SERVICE.

FIRE LANE NOTES:

AT TIME OF PLAN REVIEW, NO FIRE LANES ARE REQUIRED.

THE FIRE MARSHALL RESERVES THE RIGHT TO INSPECT THE TRAVEL PATH, ADJACENT TO THE BUILDING, ONCE THE BUILDING IS OPEN FOR OPERATION. SHOULD THE TRAVEL PATH BECOME BLOCKED WITH PARKED CARS, THE FIRE MARSHALL RESERVES THE RIGHT TO REQUIRE A FIRE LANE TO BE MARKED ADJACENT TO THE BUILDING.

GRAPHIC SCALE



**Comprehensive Site Plan for
Star City Developers, Inc.
Hershberger Station**
Hershberger Road, N.W.
City of Roanoke, Virginia

REVISIONS:

Address City of Roanoke Comments
PUB 4-3-08
Address City of Roanoke Comments
PUB 4-3-08

DESIGNED BY: MFW

DRAWN BY: MFW

CHECKED BY: PJB

SCALE: 1"=10'

DATE: 27 February 2008

SHEET TITLE:

Utility Plan

C04
04 OF 08
PROJECT NUMBER:
08-0022-02

As-Built 4.30.09 K. Winslow