

INTRODUCED: April 8,

Expedited Consideration

A RESOLUTION No. 2024-R014

To support an economically mixed project to be located on the property known as 500 Maury Street pursuant to Va. Code § 36-55.30:2.

\_\_\_\_\_  
Patron – Ms. Robertson

\_\_\_\_\_  
Approved as to form and legality  
by the City Attorney  
\_\_\_\_\_

PUBLIC HEARING: APR 8 2024 AT 6 P.M.

WHEREAS, pursuant to section 36-55.30:2(B) of the Virginia Housing Development Authority Act (the “Act”), as set forth in sections 36-55.24 through 36-55.52 of the Code of Virginia (1950), as amended, the Virginia Housing Development Authority may provide financing for an economically mixed project that is not within a revitalization area if the governing bodies of localities determine, by resolution, that, with respect to any such project, (i) either (a) the ability to provide residential housing and supporting facilities that serve persons or families of lower or moderate income will be enhanced if a portion of the units therein are occupied or held available for occupancy by persons and families who are not of low and moderate income or (b) the surrounding area of such project is, or is expected in the future to be, inhabited predominantly by lower income persons and families and will benefit from an economic mix of residents in such

AYES: 8 NOES: 0 ABSTAIN: \_\_\_\_\_

ADOPTED: APRIL 8 2024 REJECTED: \_\_\_\_\_ STRICKEN: \_\_\_\_\_

project and (ii) private enterprise and investment are not reasonably expected, without assistance, to produce the construction or rehabilitation of decent, safe and sanitary housing and supporting facilities that will meet the needs of low and moderate income persons and families in such area and will induce other persons and families to live within such area and thereby create a desirable economic mix of residents in such area; and

WHEREAS, the Council believes that, with respect to the economically mixed project to be located on the property known as 500 Maury Street, which is not within a revitalization area, identified as Tax Parcel No. S000-0220/003 in the 2024 records of the City Assessor and as shown on the plan entitled “500 - 506 Maury Street, Mixed Used Development, City of Richmond, VA,” prepared by sekivolutions, dated November 11, 2022, and last revised October 18, 2023, a copy of which is attached to this resolution, (i) the ability to provide residential housing and supporting facilities that serve persons or families of lower or moderate income will be enhanced if a portion of the units therein are occupied or held available for occupancy by persons and families who are not of low and moderate income, and (ii) private enterprise and investment are not reasonably expected, without assistance, to produce the construction or rehabilitation of decent, safe and sanitary housing and supporting facilities that will meet the needs of low and moderate income persons and families in such area and will induce other persons and families to live within the surrounding area of such project and thereby create a desirable economic mix of residents in such area; and

WHEREAS, the Council believes that it is in the best interests of the citizens of the City of Richmond that the Council support the aforementioned project pursuant to section 36-55.30:2(B) of the Code of Virginia (1950), as amended;

NOW, THEREFORE,

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF RICHMOND:

That the Council hereby supports the economically mixed project to be located on the property known as 500 Maury Street, identified as Tax Parcel No. S000-0220/003 in the 2024 records of the City Assessor and as shown on the plan entitled “500 - 506 Maury Street, Mixed Used Development, City of Richmond, VA,” prepared by sekivsolutions, dated November 11, 2022, and last revised October 18, 2023, a copy of which is attached to this resolution, pursuant to section 36-55.30:2(B) of the Code of Virginia (1950), as amended.

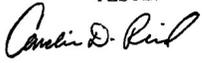
BE IT FURTHER RESOLVED:

That the Council hereby determines that, with respect to the aforementioned economically mixed project, the ability to provide residential housing and supporting facilities that serve persons or families of lower or moderate income will be enhanced if a portion of the units therein are occupied or held available for occupancy by persons and families who are not of low and moderate income.

BE IT FURTHER RESOLVED:

That the Council hereby determines that, with respect to the aforementioned economically mixed project, private enterprise and investment are not reasonably expected, without assistance, to produce the construction or rehabilitation of decent, safe and sanitary housing and supporting facilities that will meet the needs of low and moderate income persons and families in the surrounding area of such project and will induce other persons and families to live within such area and thereby create a desirable economic mix of residents in such area.

A TRUE COPY:  
TESTE:

  
City Clerk



# Richmond City Council

The Voice of the People

Richmond, Virginia

## Office of the Council Chief of Staff

### Ordinance/Resolution Request

**TO** Laura Drewry, City Attorney

**THROUGH** LaTasha Holmes, Council Chief of Staff

**FROM** Steven Taylor, Council Policy Analyst

**COPY** Ellen Robertson, 6th District Council Member  
Tabrica Rentz, Deputy City Attorney  
Adam Poser, Deputy Council Chief of Staff

**DATE** March 27, 2024

**PAGE/s** 2

**TITLE** Determination of City Council required by Section 36-55.30:2.B of the Code of Virginia of 1950, as amended, in order for the Virginia Housing to finance the economically mixed project.

This is a request for the drafting of an **Ordinance**  **Resolution**

**REQUESTING COUNCILMEMBER/PATRON**

Councilmember E. Robertson (by Request)

**SUGGESTED STANDING COMMITTEE**

Expedited

**ORDINANCE/RESOLUTION SUMMARY**

The patron requests that a resolution be drafted to show City Council’s desire to make the determination required by Section 36-55.30:2.B of the Code of Virginia of 1950, as amended, in order for the Virginia Housing to finance the economically mixed project at 500 Maury Street. Virginia Housing is authorized to fund projects that meet certain criteria. Specifically, if City Council finds that the ability to provide residential housing and supporting facilities that serve persons or families of lower or moderate income will be enhanced if a portion of the units in the Project are occupied or held available for occupancy by persons and families who are not of low and moderate income; and private enterprise and investment are not reasonably expected, without assistance, to produce the construction or rehabilitation of decent, safe and sanitary housing and supporting facilities that will meet the needs of low and moderate income persons and families in the surrounding area of the Project and will induce

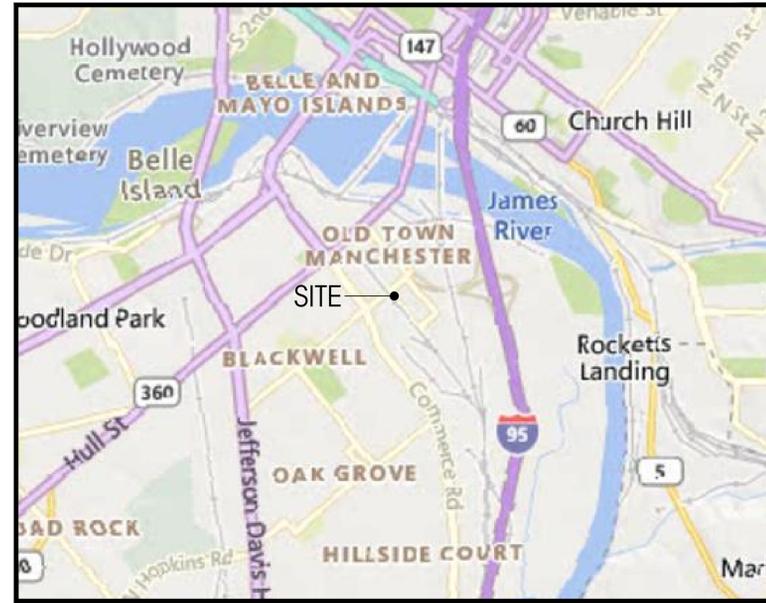


**GENERAL NOTES**

1. OWNER/DEVELOPER: THE 95 APTS, LLC  
409 E MAIN ST, SUITE 301  
RICHMOND, VA 23219  
ATTN: ADAM TILLER  
EMAIL: ATILLER@DODSONDEV.COM  
PHONE: 804.301.3184
2. ARCHITECT: WALTER PARKS ARCHITECTS  
313 N. ADAMS STREET  
RICHMOND, VA 23230  
ATTN: SEAN WHEELER  
EMAIL: SEAN@WPARKS.COM  
PHONE: 804.552.1612
3. ENGINEER: SEKIV SOLUTIONS  
14207 POND CHASE PLACE  
MIDLOTHIAN, VA 23113  
ATTN: KEITH STANLEY  
EMAIL: KSTANLEY@SEKIVSOLUTIONS.COM  
PHONE: 804.363.0394
4. PROPERTY ADDRESS: 506 MAURY STREET  
RICHMOND, VA 23224
5. PROPERTY ZONING: TOD-1 TRANSIT ORIENTED DEVELOPMENT
6. MAP REFERENCE NUMBER: S0000220003
7. PROJECT SUMMARY: THE PROJECT WILL CONSIST OF THE CONSTRUCTION OF A MIXED USE COMMERCIAL AND RESIDENTIAL BUILDING WITH GARAGE PARKING.
8. EXISTING USE: LIGHT INDUSTRIAL
9. PROPOSED USE: MIXED USES, SEE PROJECT SUMMARY ABOVE
10. PROJECT AREAS: SITE AREA - 0.62 ACRES - THE SITE IS IN A COMBINED SEWER AREA
11. BUILDINGS: 6-STORY BUILDING  
SQUARE FOOTAGE: ±142,974 SF GROSS AREA OF ALL FLOORS  
LEVEL 1 - COMMERCIAL AND PARKING  
LEVEL 2-6 RESIDENTIAL
12. PARKING: NONE REQUIRED PER RECENTLY ADOPTED CHANGE TO ZONING ORDINANCE  
  
SPACES PROVIDED = 69 SPACES PROVIDED  
  
BICYCLE PARKING  
41 LONG TERM SPACES IN BIKE PARKING ROOM ON GROUND FLOOR  
8 SHORT TERM SPACES ADJACENT TO LEASING OFFICE
13. ITE TRIP GENERATION MIXED USE APARTMENT BUILDING = 1,130 ADT

# PLAN OF DEVELOPMENT AND PERMIT DRAWINGS 500-506 MAURY STREET

CITY OF RICHMOND, VIRGINIA  
COUNCIL DISTRICT 6



VICINITY MAP  
SCALE: 1" = 2000'



Sheet List Table	
Sheet Number	Sheet Title
C-001	COVER SHEET
C-101	EXISTING CONDITIONS AND DEMOLITION PLAN
C-102	EROSION AND SEDIMENT CONTROL PLAN
C-103	LAYOUT AND UTILITY PLAN
C-501	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
C-502	UTILITY NOTES AND DETAILS
C-503	UTILITY NOTES AND DETAILS
C-701	EXISTING COMBINED SEWER RUNOFF MAP
C-702	PROPOSED SEWER RUNOFF MAP

**EROSION AND SEDIMENT CONTROL QUANTITIES**

1. CONSTRUCTION ENTRANCE - 1 EA
2. INLET PROTECTION - 3 EA
3. SILT FENCE - 612 LF
4. LIMITS OF CONSTRUCTION = 0.62 AC

**WATER QUANTITIES**

PUBLIC:

1. 8"X6" TEE - 1 EA
2. 6" DI WATERLINE - 32 LF
3. 6" DETECTOR CHECK
4. 6"X3" TEE - 1 EA
5. 3" GATE VALVE - 1 EA
6. 3" DI WATERLINE - 20 LF
7. 2" DOMESTIC WATER METER - 1 EA

PRIVATE:

1. 6" FIRE RPZ - 1 EA
2. 3" DOMESTIC RPZ - 1 EA
3. 6" DI FIRE LINE - 10 LF
4. 3" DI WATERLINE - 10 LF

**COMBINED SEWER NOTE**

THERE SHALL BE NO INCREASE IN THE TOTAL COMBINED SEWER OUTFLOW (10-YEAR STORM + SANITARY FLOW) FOLLOWING THE DEVELOPMENT COMPARED TO THE EXISTING COMBINED SEWER OUTFLOW. AT THE TIME OF CONSTRUCTION DRAWINGS/PERMIT SUBMITTAL, A DETENTION SYSTEM OR OTHER MEASURES TO REDUCE THE TOTAL FLOW MUST BE SHOWN TO ACHIEVE THIS REQUIREMENT. PERMITS WILL NOT BE ISSUED WITHOUT SHOWING COMPLIANCE.

**REQUIRED PERMITS**  
BUILDING PERMIT  
LAND DISTURBANCE PERMIT  
TRADE PERMITS  
WORK IN STREET PERMIT

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DATE : NOVEMBER 11, 2022

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2023-10-18	85% PERMIT PLANS

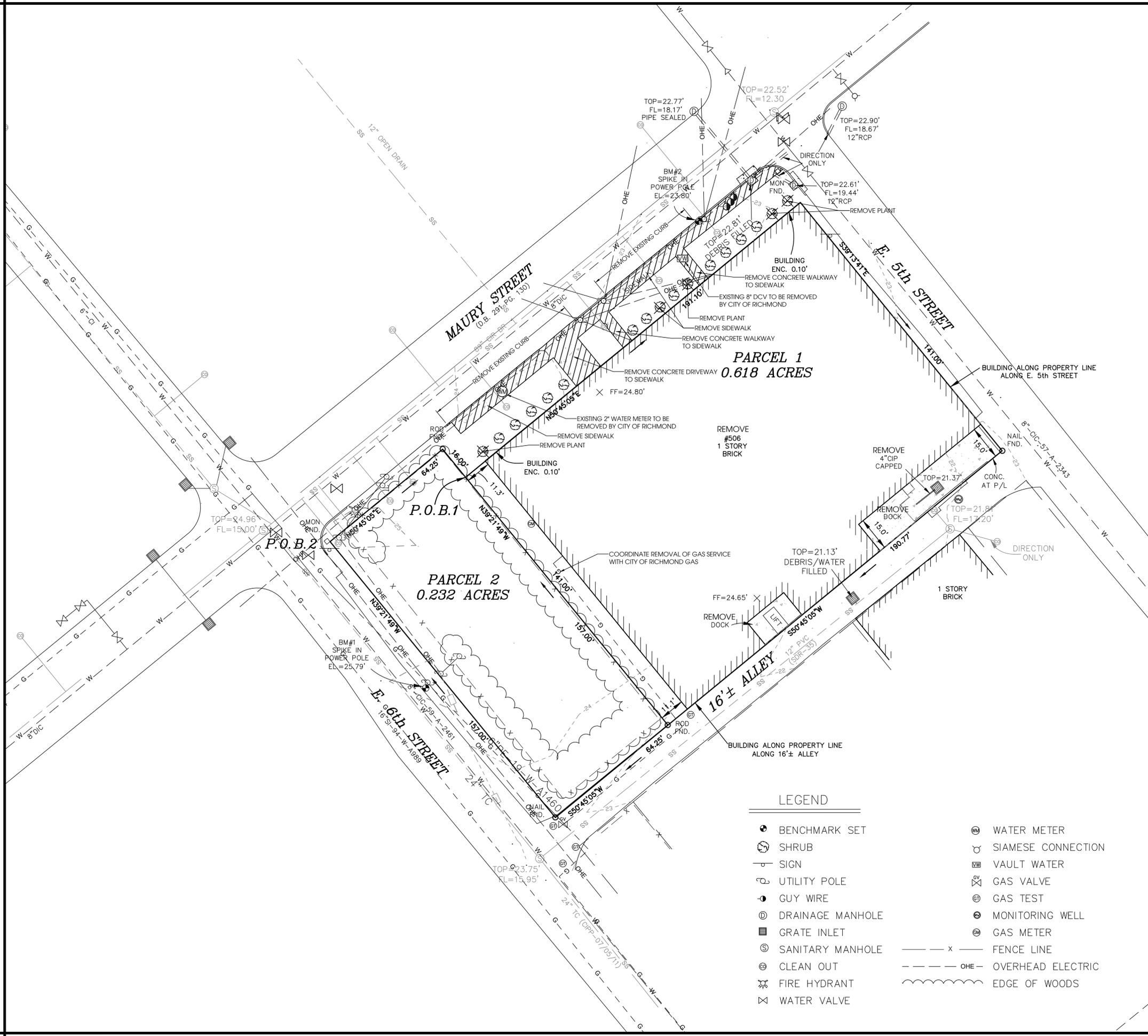
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PHONE: 804.301.3184

**500-506 MAURY STREET  
MIXED USED DEVELOPMENT**  
CITY OF RICHMOND, VA

**COVER SHEET**

SHEET NO.  
**C-001**

PROJECT NO. : 10631  
PROJECT MANAGER : KEITH STANLEY  
QUALITY ASSURANCE : STIG OWENS  
SCALE : AS SHOWN



**DEMOLITION NOTES:**

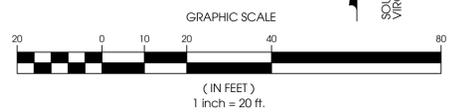
1. A PRE-CONSTRUCTION CONFERENCE IS MANDATORY BEFORE ANY WORK IS DONE AT THE SITE. ARRANGE A MEETING WITH THE CONTRACTOR, OWNER, ENGINEER AND THE CITY INSPECTOR (OR AUTHORIZED REPRESENTATIVE). THE OWNER MUST GIVE THE CITY INSPECTOR 48 HOURS NOTIFICATION TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING.
2. POST PERMITS ON SITE.
3. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND ALL UTILITY PROVIDERS INCLUDING BUT NOT LIMITED TO CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES (GAS, SEWER AND WATER), DOMINION ENERGY, AND CABLE, DATA, AND TELEPHONE PROVIDERS TO DISCONNECT ALL UTILITY SERVICES AT THE PROJECT SITE. ALL UTILITY DISCONNECTS ARE TO BE IN CONFORMANCE WITH CITY OF RICHMOND AND UTILITY PROVIDER STANDARDS.
4. BEGIN BUILDING DEMOLITION. DEMOLITION OF BUILDING SHALL INCLUDE THE REMOVAL OF ALL ABOVE GROUND APPURTENANCES, FOOTINGS AND FOUNDATIONS, AND BUILDING SLAB TO THE BASE STONE. THE CONTRACTOR SHALL NOT REMOVE BASE STONE SO AS TO AVOID CREATING LAND DISTURBANCE. ANY VOIDS LEFT FROM FOOTING AND FOUNDATION REMOVAL SHALL BE BACKFILLED WITH #57 STONE.
5. REMOVE ALL EXISTING SANITARY SEWER LATERALS UP TO EXISTING CLEANOUT (PRIVATE PORTION). BACKFILL ANY LATERAL TRENCHES WITH #57 STONE.
6. REMOVE ALL EXISTING WATER SERVICE LINES UP TO THE PROPERTY LINE. BACKFILL ANY WATER SERVICE LINES WITH #57 STONE. COORDINATE WITH CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES FOR REMOVAL OF METER BOX AND SERVICE IN RIGHT OF WAY.
7. DUST PRODUCING OPERATIONS SHALL BE WETTED DOWN TO THE EXTENT NECESSARY TO CONTROL THE DUST.
8. DEMOLITION SHALL INCLUDE COMPLETE BUILDING DEMOLITION INCLUDING BUT NOT LIMITED TO: FOOTINGS AND FOUNDATIONS, EXTERIOR IMPROVEMENTS SUCH AS SCREEN WALLS AND FENCING, STORAGE RACKS, DEBRIS, TRASH, AND CONSTRUCTION REMNANTS.
9. DEMOLITION SHALL INCLUDE THE REMOVAL OF ALL SITE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO CONCRETE PAVEMENT, ASPHALT PAVEMENT, WALKS, STAIRS, AND LOADING DOCKS. REMOVAL OF PAVEMENT ITEMS IS TO BE DOWN TO BASE STONE BUT NOT BELOW BASE STONE SO AS TO PREVENT LAND DISTURBANCE.
10. UNDERGROUND TANK IS TO BE EXCAVATED AND REMOVED IN ACCORDANCE WITH ALL APPLICABLE ENVIRONMENTAL STANDARDS AND BACKFILLED WITH #57 STONE.
11. THIS DEMOLITION PLAN IS AN ATTEMPT TO IDENTIFY ITEMS THAT ARE TO BE REMOVED BY THE CONTRACTOR BASED ON FIELD OBTAINED SURVEY INFORMATION AND SITE OBSERVATIONS. ITEMS THAT ARE NOT SPECIFICALLY IDENTIFIED ON THE PLAN BUT THAT EXIST ON THE SITE AND MUST BE REMOVED FOR FUTURE CONSTRUCTION ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE.
12. SITE IS TO BE LEFT CLEAN AND FREE OF CONSTRUCTION ACTIVITY OPERATIONS, VOIDS WHERE BUILDINGS WERE REMOVED ARE TO BE BACKFILLED WITH #57 STONE BY CONTRACTOR TO ESTABLISH A NON-EROSIVE GROUND COVER CONDITION.

**ADDITIONAL DEMOLITION NOTES FOR POD**

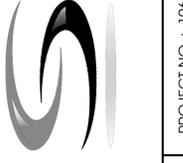
1. THE NOTES ABOVE ARE AS PROVIDED HEREIN AS REFERENCE AND SHOULD BE COMPLETED VIA THE DEMOLITION PERMIT. CONTRACTOR FOR BUILDING CONSTRUCTION MUST CONFIRM THE DEMOLITION AS NOTED ABOVE AND ON THIS PLAN HAS BEEN COMPLETED TO THEIR SATISFACTION SUCH THAT BUILDING CONSTRUCTION CAN COMMENCE. ANY ITEMS NOT DEMOLISHED SHALL BE IDENTIFIED TO THE OWNER IMMEDIATELY FOR THE COORDINATION OF THEIR REMOVAL.

**LEGEND**

- ⊕ BENCHMARK SET
- ⊙ SHRUB
- SIGN
- ⊕ UTILITY POLE
- GUY WIRE
- ⊕ DRAINAGE MANHOLE
- GRATE INLET
- ⊕ SANITARY MANHOLE
- ⊕ CLEAN OUT
- ⊕ FIRE HYDRANT
- ⊕ WATER VALVE
- ⊕ WATER METER
- ⊕ SIAMESE CONNECTION
- ⊕ VAULT WATER
- ⊕ GAS VALVE
- ⊕ GAS TEST
- ⊕ MONITORING WELL
- ⊕ GAS METER
- x — FENCE LINE
- OHE — OVERHEAD ELECTRIC
- ⊕ EDGE OF WOODS



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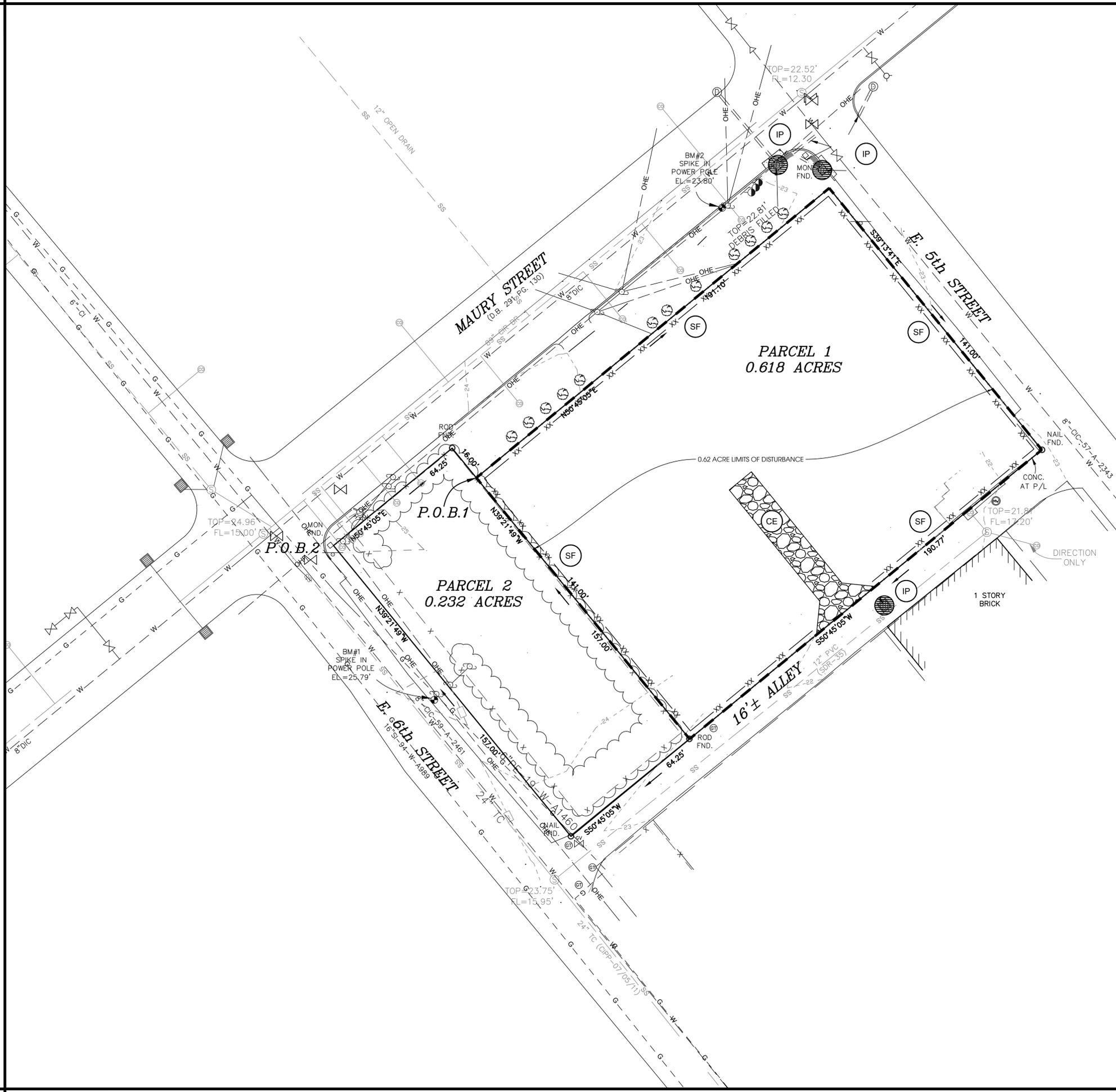
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**500-506 MAURY STREET  
MIXED USED  
DEVELOPMENT**  
CITY OF RICHMOND, VA

**EXISTING  
CONDITIONS AND  
DEMOLITION PLAN**

SHEET NO.  
**C-101**

SCALE : AS SHOWN PROJECT NO. : 10631 PROJECT MANAGER : KEITH STANLEY QUALITY ASSURANCE : STIG OWENS



**EROSION CONTROL LEGEND**

CE	CONSTRUCTION ENTRANCE		3.02
SF	SILT FENCE		3.05
IP	INLET PROTECTION		3.07

\* VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK SPECIFICATION NUMBER

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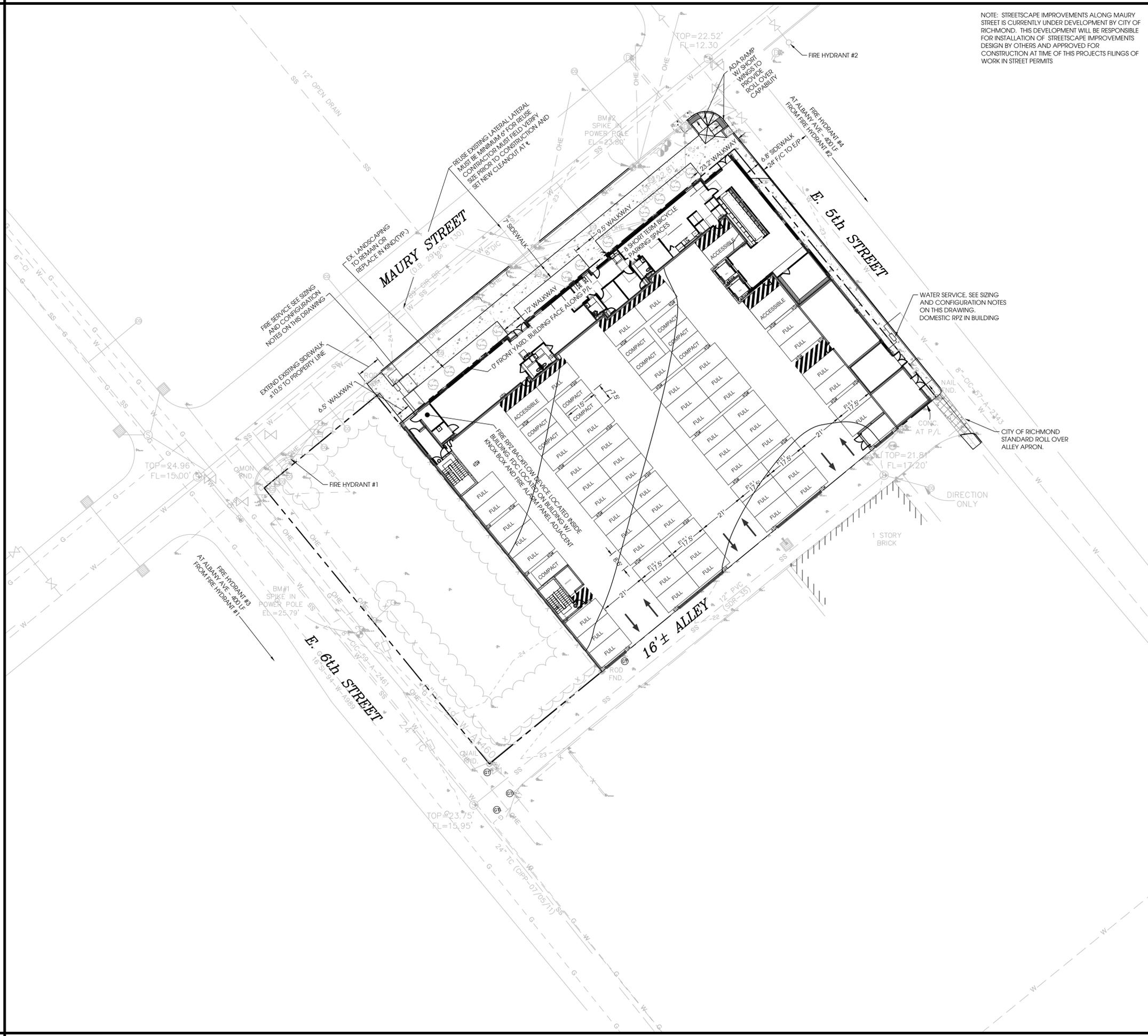
**EROSION AND  
 SEDIMENT  
 CONTROL PLAN**

SHEET NO.  
**C-102**

GRAPHIC SCALE  
  
 (IN FEET)  
 1 inch = 20 ft.

SOUTH ZONE (NAD83)  
 VIRGINIA STATE PLANE

SCALE : AS SHOWN  
 PROJECT NO. : 10631  
 PROJECT MANAGER : KEITH STANLEY  
 QUALITY ASSURANCE : STIG OWENS



NOTE: STREETScape IMPROVEMENTS ALONG MAURY STREET IS CURRENTLY UNDER DEVELOPMENT BY CITY OF RICHMOND. THIS DEVELOPMENT WILL BE RESPONSIBLE FOR INSTALLATION OF STREETScape IMPROVEMENTS DESIGN BY OTHERS AND APPROVED FOR CONSTRUCTION AT TIME OF THIS PROJECTS FILINGS OF WORK IN STREET PERMITS

### UTILITY NOTES AND MATERIAL SPECIFICATIONS

- GENERAL**
- CONTRACTOR MUST FIELD VERIFY THE ELEVATION AND LOCATION OF ALL EXISTING MANHOLES, GAS LINES, AND OTHER UTILITY LINES PRIOR TO CONSTRUCTION
  - SANITARY SEWER LATERAL AND MAIN EXTENSION IS TO BE INSTALLED BY THE CONTRACTOR. CONTRACTOR MUST APPLY FOR A WORK IN STREET PERMIT TO PERFORM INSTALLATION.
  - WATER AND FIRE SERVICE, INCLUDING ANY FIRE HYDRANTS, FROM THE MAIN UP TO AND INCLUDING THE METER BOX/DETECTOR VAULT IS TO BE INSTALLED BY THE CITY OF RICHMOND. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING SERVICE FROM THE METER BOX TO THE BUILDING AS SHOWN ON PLAN

- PUBLIC UTILITIES**
- ALL UTILITIES WITHIN PUBLIC RIGHT OF WAY ARE TO BE INSTALLED PER THE LATEST EDITION OF THE CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES AND DEPARTMENT OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS
  - THE CONTRACTOR MUST USE A MECHANICAL HOLE CUTTER WHEN TAPPING THE EXISTING SEWER MANHOLE AND THAT AN APPROVED SADDLE SHALL BE USED TO MAKE THE CONNECTION
  - SANITARY SEWER IN THE RIGHT OF WAY IS TO BE CONSTRUCTED OF EITHER CL51 DUCTILE IRON OR SDR-35 PVC
  - WATER MAIN INSTALLATIONS 3" AND LARGER ARE TO BE DUCTILE IRON OF THE THICKNESS CLASS PER THE BELOW TABLE:

PIPE SIZE	THICKNESS CLASS
3"	54
4"	53
6"	54
8"	54
12"+	51

- WATER SERVICES 2" AND UNDER ARE COPPER. BELOW GROUND TUBING IS TO BE TYPE K SOFT DRAWN COPPER, AND ABOVE GROUND TUBING IS TO BE TYPE L HARD DRAWN COPPER.

- PRIVATE UTILITIES (I.E. ON PRIVATE PROPERTY AND/OR BEHIND THE METER BOX)**
- ALL SEWER FITTINGS AND PIPING MUST COMPLY WITH THE 2015 VERSION OF THE INTERNATIONAL PLUMBING CODE
  - ALL PRIVATE SEWER PIPE IS TO BE SCHEDULE 40 PVC COMPLYING WITH ASTM STANDARD D-2665
  - ALL PRIVATE SEWER FITTINGS ARE TO BE PVC COMPLYING WITH ASTM STANDARD D-3034
  - ALL PRIVATE WATERLINE FITTINGS AND PIPING MUST COMPLY WITH 2015 VERSION OF THE INTERNATIONAL PLUMBING CODE
  - ALL PRIVATE WATERLINE PIPE IS TO BE SCHEDULE 40 PVC COMPLYING WITH ASTM STANDARD D-1785
  - ALL PRIVATE WATERLINE FITTINGS ARE TO BE PVC COMPLYING WITH ASTM STANDARD D-2464

**FIRE SERVICE CONFIGURATION NOTE**  
(TO BE INSTALLED BY THE CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES)

- 8"x6" TEE
- ±32 LF 6" DI PIPE
- 6" DETECTOR CHECK AND VAULT

**WATER SERVICE CONFIGURATION NOTE**  
(TO BE INSTALLED BY THE CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES)

- 8"x3" TEE
- ±20 LF 3" DI WATERLINE
- 2" WATER METER AND BOX

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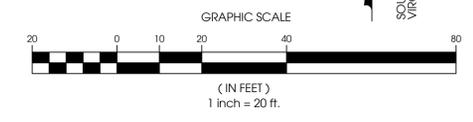
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**500-506 MAURY STREET**  
**MIXED USED DEVELOPMENT**  
CITY OF RICHMOND, VA

**GRADING, LAYOUT, AND UTILITY PLAN**

SHEET NO.  
**C-103**



PROJECT NO. : 10631  
PROJECT MANAGER : KEITH STANLEY  
SCALE : AS SHOWN  
QUALITY ASSURANCE : STIG OWENS

## EROSION AND SEDIMENT CONTROL NARRATIVE

### PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF INSTALLING AN APPROXIMATELY 27,000 SQUARE FOOT FOOTPRINT MIXED USE BUILDING WITH 163 DWELLING UNITS, RETAIL, OFFICE AND GARAGE PARKING. THE TOTAL DISTURBANCE AREA FOR THE PROJECT IS APPROXIMATELY 0.62 ACRES INCLUDING WORK IN THE RIGHT OF WAY AND WORK OFF-SITE. THE ENTIRE AREA IS WITHIN A COMBINED SEWER AREA.

### EXISTING SITE CONDITIONS

THE EXISTING SITE IS ZONED TOD-1 TRANSIT ORIENTED DEVELOPMENT. THE EXISTING SITE HAS A BUILDING LOCATED ON THE LOT THAT IS INDUSTRIAL MANUFACTURING. THE ENTIRE SITE IS IMPERVIOUS WITH THE BUILDING. THE SITE IS COLLECTED IN INLETS ON MAURY STREET, 5TH STREET, AND AN ALLEY LOCATED BEHIND THE BUILDING.

### ADJACENT AREAS

THE SITE IS AT THE INTERSECTION OF MAURY STREET AND 5TH STREET IN A COMPLETELY DEVELOPED AREA AND IS SURROUNDED BY OTHER INDUSTRIAL BUILDINGS OF VARIOUS SCALE AND INTENSITY.

### OFF-SITE AREAS

NO OFF-SITE AREAS ARE USED FOR THE PROJECT. THE SITE WILL USE PROPERTY OWNED BY THE DEVELOPER ACROSS THE ALLEY FOR ADDITIONAL PARKING AND AMENITIES.

### SOILS

ACCORDING TO THE WEB SOIL SURVEY BY NRCS, THE SITE IS ENTIRELY WITHIN THE URBAN LAND (SOIL UNIT 41) SOIL CLASSIFICATION. URBAN LAND IS GENERALLY LAND THAT HAS BEEN OR IS CURRENTLY IN AN INTENSELY DEVELOPED STATE WITH SIGNIFICANT IMPERVIOUS COVER. SINCE THERE HAS LIKELY BEEN SIGNIFICANT COMPACTION TO THE SOIL WE ASSUME THIS SOIL CLASSIFICATION RESULTS IN TYPE D SOILS.

### CRITICAL AREAS

THERE DO NOT APPEAR TO BE ANY CRITICAL MEASURES IN THE PROJECT LIMITS. THE SITE DISCHARGES TO A COMBINED SEWER SYSTEM SO NO INCREASE IN COMBINED STORM AND SANITARY FLOW WILL BE ALLOWED TO RUNOFF THE SITE.

### EROSION & SEDIMENT CONTROL MEASURES

SEE THE CONSTRUCTION SEQUENCE FOR SEQUENCE OF INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES:

- CONSTRUCTION ENTRANCE (3.02): STONE PAD WITH A FILTER FABRIC UNDERLIER USED TO REDUCE MUD TRANSPORTED TO PUBLIC ROADS
- SILT FENCE (3.05): TEMPORARY SEDIMENT BARRIER MADE OF SYNTHETIC FILTER FIBER USED TO FILTER SEDIMENT FROM RUNOFF AND REDUCE SHEET FLOW VELOCITY DURING CONSTRUCTION OPERATIONS
- INLET PROTECTION (3.07): A SEDIMENT FILTER OR EXCAVATED IMPOUNDING AREA AROUND A STORM DRAIN DROP INLET OR CURB INLET USED TO PREVENT SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA.

### PERMANENT STABILIZATION

THE EXISTING SITE IS CURRENTLY ENTIRELY IMPERVIOUS. WITH THE DEMOLITION OPERATION, THE BUILDINGS AND ASPHALT WILL BE REMOVED DOWN TO THE BASE STONE A NON-EROSIVE CONDITION. THROUGHOUT CONSTRUCTION THE STONE COVER WILL NEED TO BE MAINTAINED TO AVOID CREATING EROSION CONDITIONS AND THE NEED FOR TEMPORARY SEEDING.

### STORMWATER RUN-OFF CONSIDERATIONS

THE LAND DISTURBANCE AND INSTALLATION OF THE DEVELOPMENT WILL NOT CAUSE AN INCREASE IN THE STORMWATER RUNOFF AS THE EXISTING SITE IS ENTIRELY IMPERVIOUS.

### CALCULATIONS

AS THE LAND DISTURBANCE IS WITHIN THE COMBINED SEWER AREA OF THE CITY, NO SPECIFIC CALCULATIONS ARE REQUIRED WITH THE EXCEPTION OF CALCULATIONS TO SHOW THERE IS NO PEAK RUNOFF IN THE 10-YEAR STORM EVENT.

### MAINTENANCE

EROSION CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT BY THE CONTRACTOR. THEY WILL BE REPAIRED/REINSTALLED AS NECESSARY TO PREVENT ANY SILT OR MUD FROM LEAVING THE CONSTRUCTION AREA FOR THE DURATION OF CONSTRUCTION. INSPECTIONS OF THE EROSION AND SEDIMENT CONTROL MEASURES WILL BE PERFORMED BY THE CONTRACTOR ONCE EVERY FOUR (4) BUSINESS DAYS, OR ONCE EVERY (5) BUSINESS DAYS AND WITHIN 24 HOURS FOLLOWING A RAINFALL EVENT IN EXCESS OF 0.25 INCHES.

- CONSTRUCTION ENTRANCE (3.02)
  - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORK OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT.
  - ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY
  - THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.
- 3.07 STORM DRAIN INLET PROTECTION
  - THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
  - SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
  - STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

## VESCH GENERAL EROSION AND SEDIMENT CONTROL NOTES

- ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS 9VAC25-840.
- ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

## EROSION CONTROL SEQUENCE

### PHASE I

- THE OWNER AND/OR CONTRACTOR SHALL ARRANGE AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH THE EROSION CONTROL INSPECTOR FOR THE PURPOSE OF REVIEWING THE PLAN. THE MEETING SHALL BE ARRANGED BY CALLING THE INSPECTOR 5 DAYS PRIOR TO THE DESIRED MEETING.
- HOLD PRE-CONSTRUCTION MEETING. POST PERMIT.
- INSTALL INLET PROTECTION AND CONSTRUCTION ENTRANCE.
- NO STOCKPILE IS PROPOSED WITH THIS PLAN.
- CALL INSPECTOR TO APPROVE INITIAL WORK BEFORE PROCEEDING WITH NEXT PHASE.
- SINCE THE DEMOLITION WILL BE COMPLETED PRIOR TO ANY LAND DISTURBANCE, THE CONTRACTOR IS TO CONFIRM ALL EXISTING ELEMENTS NECESSARY FOR THE COMPLETION OF THE PROJECT HAVE BEEN REMOVED OR ABANDONED PER CITY OF RICHMOND REQUIREMENTS.
- CONTINUE CONSTRUCTION ONLY AFTER PERIMETER EROSION CONTROL MEASURES ARE INSTALLED

### NOTE:

NO EROSION CONTROL MEASURES ARE TO BE REMOVED WITHOUT PERMISSION FROM THE ENVIRONMENTAL INSPECTOR

## 19 MINIMUM STANDARDS

A VESCP MUST BE CONSISTENT WITH THE FOLLOWING CRITERIA, TECHNIQUES AND METHODS:

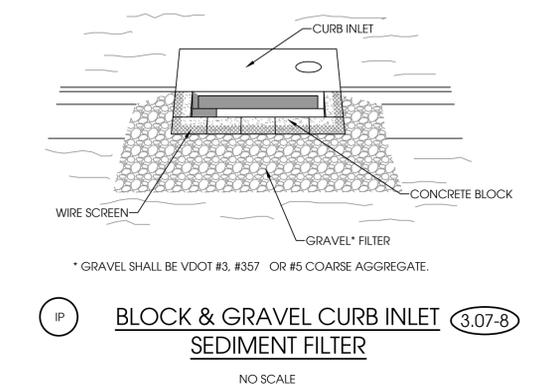
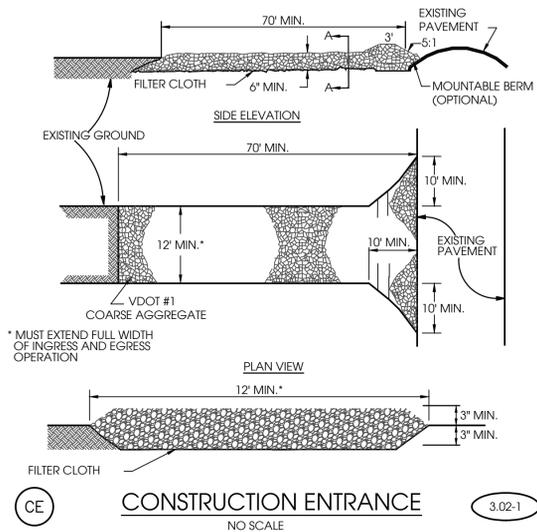
- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN, DORMANT (UNDISTURBED) FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
- SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
- STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.
  - THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.
  - SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A 25-YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.
- CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.
- CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
- WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
- ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
- WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.
- WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.
- ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.
- THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.
- UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
  - NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
  - EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
  - EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
  - MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
  - RESTALLATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THIS CHAPTER.
  - APPLICABLE SAFETY REQUIREMENTS SHALL BE COMPLIED WITH.
- WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE VESCP AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA. STREAM RESTORATION AND RELOCATION PROJECTS THAT INCORPORATE NATURAL CHANNEL DESIGN CONCEPTS ARE NOT MAN-MADE CHANNELS AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS:

## CITY OF RICHMOND STANDARD E&S NOTES

- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN, DORMANT (UNDISTURBED) FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- EXCESS EXCAVATION DISPOSED OF OFF THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
- EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP OF THE LAND DISTURBING ACTIVITY.
- EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED SO THAT THE SEDIMENT CARRYING RUNOFF FROM THE SITE WILL NOT ENTER STORM DRAINAGE FACILITIES.
- EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED UNTIL THE DISTURBED AREA IS STABILIZED.
- PROPERTIES ADJOINING THE SITE SHALL BE KEPT CLEAN OF MUD OR SILT CARRIED FROM THE SITE BY VEHICULAR TRAFFIC OR RUNOFF.
- THE DISPOSAL OF WASTE MATERIALS REMOVED FROM EROSION AND SEDIMENT CONTROL FACILITIES AND THE DISPOSAL OF THESE FACILITIES SHALL BE IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
- STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

## CHESAPEAKE BAY NARRATIVE

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF AN APPROXIMATELY 27,000 SQUARE FOOT APARTMENT BUILDING. ASSOCIATED SITE IMPROVEMENTS INCLUDE INSTALLING A SIDEWALK AND PUBLIC FIRE, WATER, AND SEWER. THE PROJECT IS WITHIN THE COMBINED SEWER AREA AND NOT WITHIN THE CHESAPEAKE BAY PROTECTION AREA. WE INTEND TO LIMIT THE LAND DISTURBANCE ON THE PROJECT TO ONLY THAT WHICH IS NECESSARY FOR THE IMPROVEMENTS BUT NO FORMAL CALCULATIONS ARE REQUIRED.



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TELEPHONE NO. 804.938.8864 | www.sekivolutions.com



DATE : NOVEMBER 11, 2022

### REVISION BLOCK

DATE	DESCRIPTION
2023-01-13	PER CITY COMMENTS
2023-05-08	PER CITY COMMENTS
2023-10-18	85% PERMIT PLANS

THE 95 APTS, LLC  
409 E MAIN ST, SUITE 301  
RICHMOND, VA 23219  
ATTN: ADAM TILLER  
EMAIL: ATILLER@DODSONDEV.COM  
PHONE: 804.301.3184

**500-506 MAURY STREET MIXED USED DEVELOPMENT**  
CITY OF RICHMOND, VA

**EROSION AND SEDIMENT CONTROL NOTES AND DETAILS**

SHEET NO.

**C-501**

PROJECT NO. : 106631  
PROJECT MANAGER : KEITH STANLEY  
QUALITY ASSURANCE : STIG OWENS  
SCALE : AS SHOWN



**ISO (Insurance Service Office) Method of Calculating NFF (Needed Fire Flow)**

Project Name: **506 Maury Street - Apartments**

Type of Construction: **Wood Frame Construction** (Class 1) (ISO Classification) (Class Factor) F = **1.5**  
 Ground Floor Area (SF): **27,000** # of Stories: **5** (Effective Area) Ai = **81000**  
 Total Floor Area = Ai (Effective Area)

Fire Area Considered  
 Construction Factor: Ci = 18 x (F) x -(Ai) (Rounded to Nearest 250 GPM) Ci = **7750**  
 (Worst Case) Occupancy Factor: OI = **0.85**

Type of Occupancy: **Apartment**  
 Occupancy Class: **C-2 Limited-combustible**

**Calculate Exposure (X) and Communication (P):**  
 (calculate for each side and enter into the chart at right)

Distance (FT) to the Exposure Building	Xi	Pi	Xi+Pi
0-10	0.00	0.00	0
1-100	0.00	0.00	0
Blank Wall	0.00	0.00	0
(Exposure Building Class)			
Calculated Xi(i) =			0
		Total Xi+Pi=	0

Description of protection: **Unprotected**

Communication Type: **Open -Fire-resistant, Noncombustible, or Slow-burning Communications**

Length: **0-10**  
 Calculated P(i) = **0**

$(X + P) = 1.0 + \sum Xi + \sum Pi$  where n= number of sides of subject building  
 [Maximum (X + P) = 1.75, use (X + P) = **1**]

**Needed Fire Flow:**

$NFF = (Ci) \times (O_i) \times (X + P)$  NFF = **6587.5**

Does Building Have Automatic Sprinklers? **Yes**

Reduction Factor : 50% x NFF = **50%**

Required Fire Flow Total = **3294**

Required Fire Flow - Rounded  
 If <2500 nearest 250  
 If >2500 nearest 500 **3,500 GPM**

Number of Hydrants Required: **4**

[Minimum based on IFC calculation @ 1750 gpm]  
 Additional hydrants may be required based on 350' max hose lay (commercial area) hose lay (commercial area)

Calculations of ISO Method Based on "Distribution System Requirements for Fire Protection"  
 American Water Works Association, AWWA Manual M31 (sections reprinted with permission - Insurance Services Office, Inc., Copyright 1989)

**CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES DEVELOPMENT SERVICES** Application for WATER, SANITARY, & STORM SEWER  
 Tel: 804-646-8544 Fax: 804-646-3438

Applicant's Signature \_\_\_\_\_ Date \_\_\_\_\_  
 DPU Engineer or AFSA Signature \_\_\_\_\_ Date \_\_\_\_\_  
 DPU Project Manager Signature \_\_\_\_\_ Date \_\_\_\_\_

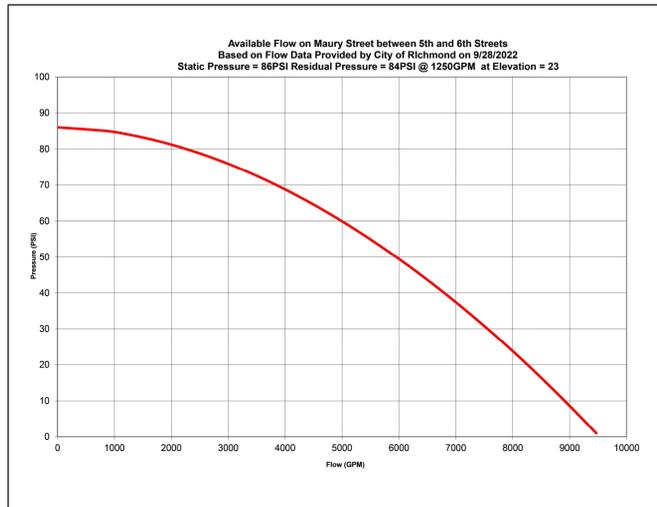
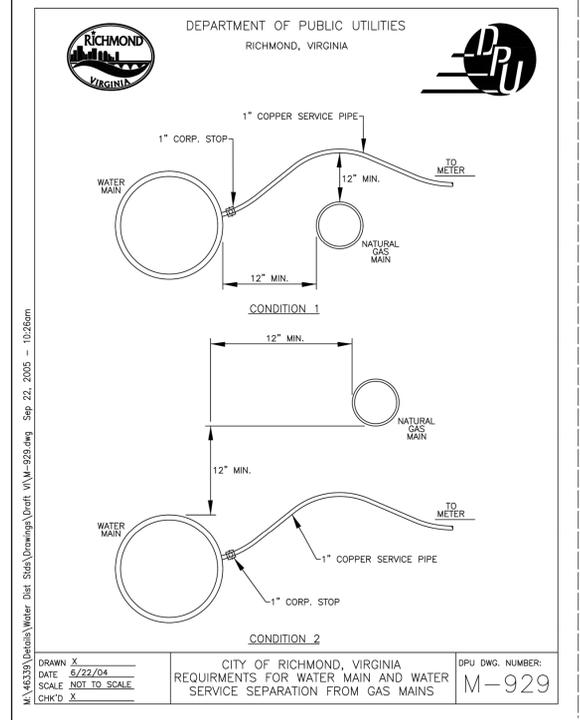
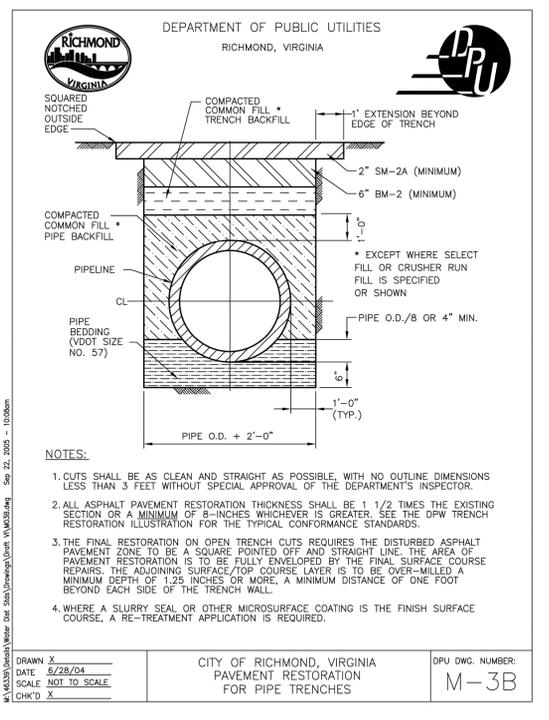
**City of Richmond DPU Fixture Values Meter Sizing**

Fixture	Fixture Value @ 35 PSI	No. of Fixtures (set to zero if none)	Fixture Value	COMMENTS
Bathtub	8	1	8	
Whirlpool	8	0	0	
Shower Head (shower only)	4	18	72	
Toilet-Flush Valve	35	0	0	
Toilet-Tank Type	3	185	555	
Wash Sink (set of faucets)	4	185	740	
Kitchen Sink- 1/2" Connection	3	183	489	
Kitchen Sink- 3/4" Connection	7	0	0	
Dishwasher- 1/2" Connection	5	183	815	
Dishwasher- 3/4" Connection	10	0	0	
Washing Machine- 1/2" Conn	5	183	815	
Washing Machine- 3/4" Conn	12	0	0	
Washing Machine- 1" Conn	25	0	0	
Hose Bib- 1/2" Conn	6	0	0	
Hose Bib- 5/8" Conn	9	0	0	
Hose Bib- 3/4" Conn	12	0	0	
Lawn Sprinkler (per head)	1	0	0	
Bedpan Washers	10	0	0	
Combination Sink & Tray	3	0	0	
Lavatory- 3/8" Connection	2	0	0	
Lavatory- 1/2" Connection	4	0	0	
Laundry Tray- 1/2" Connection	3	0	0	
Laundry Tray- 3/4" Connection	7	0	0	
Service Sink 1/2" Connection	3	0	0	
Service Sink 3/4" Connection	7	0	0	
Urinal - Pedestal Flush Valve	35	0	0	
Urinal - Wall Flush Valve	12	0	0	
Trough (2ft unit)	2	0	0	
<b>Fixture Value Total</b>			<b>4,790</b>	

Meter Size	Flow Range (GPM)	Minimum Flow	Maximum Flow
5/8"	100 - 250	100	250
1"	250 - 400	250	400
1 1/4"	400 - 650	400	650
2"	650 - 1000	650	1000

Meter Size based on Fixture Value Total **2**

NOTE: Other factors, such as distance/length of service or elevation, may make it necessary to utilize a larger meter than that which is indicated by this calculation



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PROJECT NO. : 10631  
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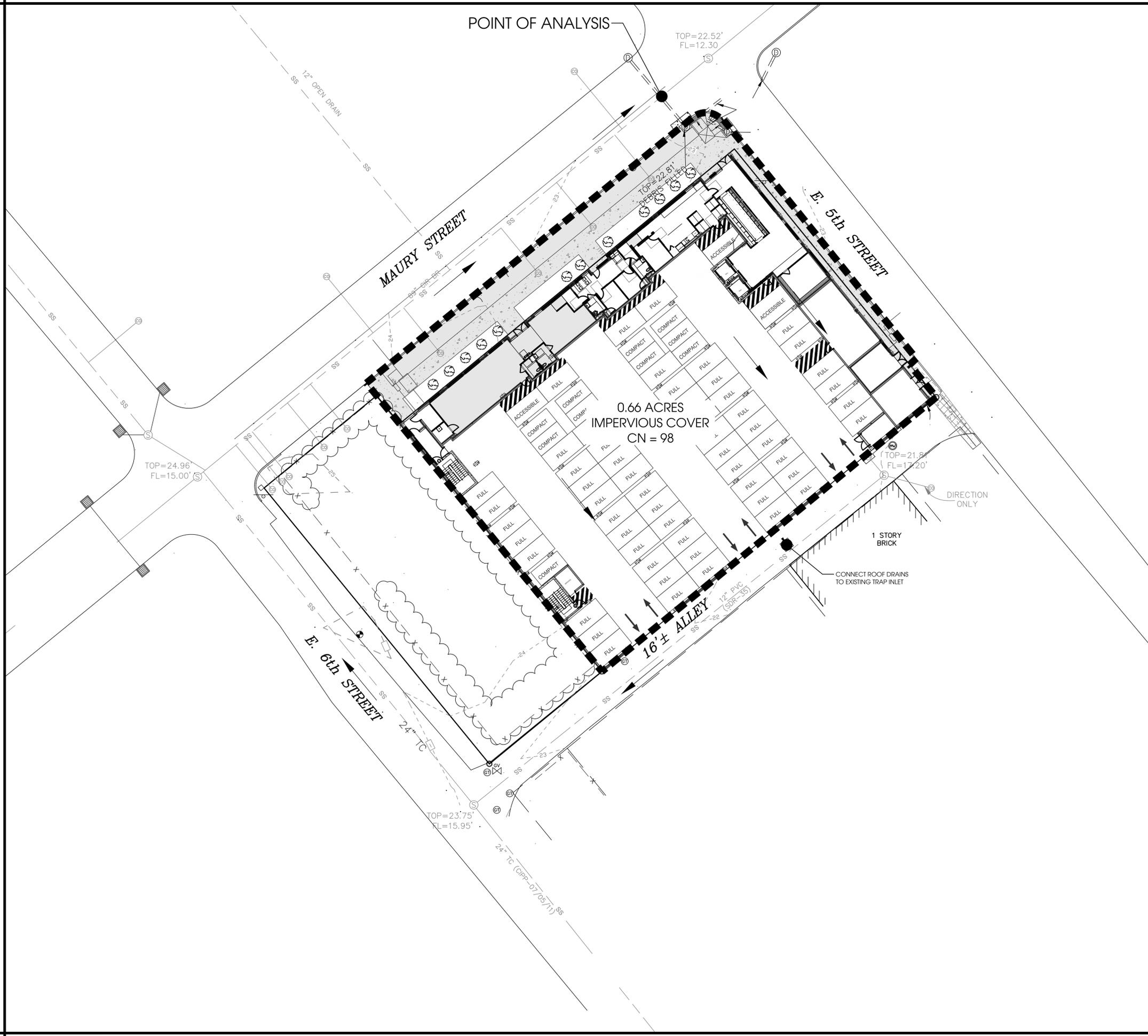
**500-506 MAURY STREET MIXED USED DEVELOPMENT**  
 CITY OF RICHMOND, VA

**UTILITY NOTES AND DETAILS**

QUALITY ASSURANCE : STIG OWENS





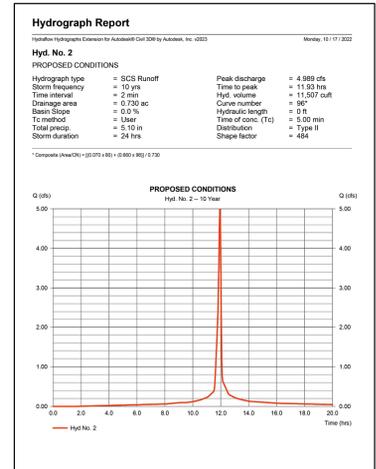


### PROPOSED COMBINED SEWER CALCULATIONS

**SEWER FLOW**  
 5,032 SF COMMERCIAL SPACE X 200GPD / 1000 SF = 1000 GPD  
 145 - 1 BEDROOM UNITS X 200 GPD = 29,000 GPD  
 18 - 2 BEDROOM UNITS X 300 GPD = 5,400 GPD  
 TOTAL SANITARY FLOW = 35,400 GPD = 0.05 CFS

**STORM FLOW**  
 10-YEAR OUTFLOW = 4.99 CFS (SEE HYDROGRAPH BELOW)

TOTAL FLOW = 5.04 CFS



### COMBINED SEWER NOTE

THERE SHALL BE NO INCREASE IN THE TOTAL COMBINED SEWER OUTFLOW (10-YEAR STORM + SANITARY FLOW) FOLLOWING THE DEVELOPMENT COMPARED TO THE EXISTING COMBINED SEWER OUTFLOW. AT THE TIME OF CONSTRUCTION DRAWINGS/PERMIT SUBMITTAL, A DETENTION SYSTEM OR OTHER MEASURES TO REDUCE THE TOTAL FLOW MUST BE SHOWN TO ACHIEVE THIS REQUIREMENT. PERMITS WILL NOT BE ISSUED WITHOUT SHOWING COMPLIANCE.

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**500-506 MAURY STREET  
 MIXED USED  
 DEVELOPMENT**  
 CITY OF RICHMOND, VA

**PROPOSED  
 COMBINED SEWER  
 RUNOFF MAP**

SHEET NO.

**C-702**

