

Michael Kelley

10/07/2025

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APPROVED: Engineering

Date

Retta Jackson

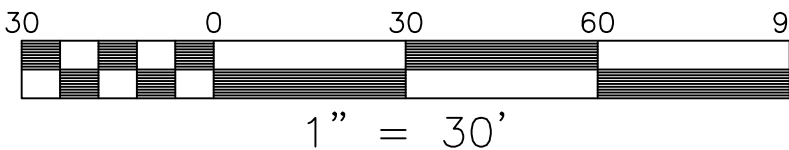
10/07/2025

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APPROVED: Planning

Date

TOC COVER AND NOTES REVISION 2022.08.03



1" = 30'

NOTE: UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH MINIMUM STANDARD 16. SEE SHEET C24.

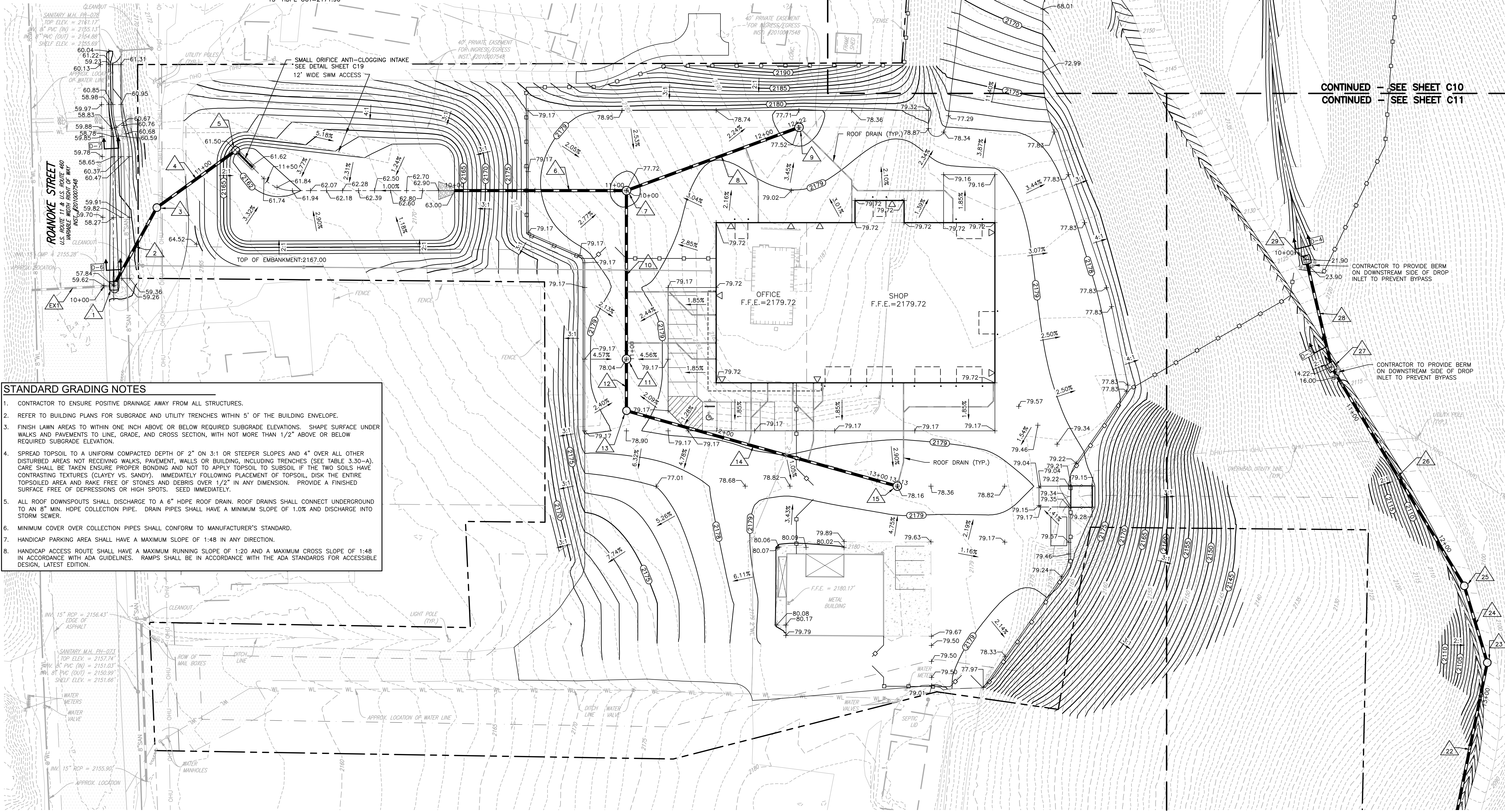
NOTE: LOCATIONS OF SMALL DIAMETER ROOF DRAINS HAVE BEEN APPROXIMATED. ACTUAL FIELD CONDITIONS (BUILDING PLUMBING INVERTS, FOOTING DEPTHS, CROSSINGS WITH DRY UTILITIES) MAY VARY. INSTALLATION SHALL BE CONSISTENT WITH THE ASSUMPTIONS OF THE APPROVED PLAN.

## STRUCTURE SCHEDULE

- 1 DI-5 W/IS-1  
TOP=2159.51 H=3.23'  
15" HDPE IN=2155.38  
15" CMP OUT=2155.28
- 2 48" MH-2 W/ST-1; IS-1  
TOP=2164.45 H=5.87'  
15" HDPE IN=2158.68  
15" HDPE OUT=2158.58
- 3 60.83 LF OF 15" TYPE S HDPE @ 2.00%  
INV. UPPER=2159.90 INV. LOWER=2158.68
- 4 48" DIA. RISER STRUCTURE  
OUTLET CONTROL FLOW STRUCTURE  
SEE DETAIL SHEET C19  
TOP=2164.25  
15" INV. OUT=2159.90
- 5 107.29 LF OF 15" TYPE S HDPE @ 6.79%  
INV. UPPER=2170.28 INV. LOWER=2163.00
- 6 DI-1 W/ST-1; NO IS-1  
TOP=2177.72 H=7.94' (INCLUDES 6" SUMP)  
15" HDPE IN=2170.38  
15" HDPE OUT=2170.28
- 7 114.73 LF OF 15" TYPE S HDPE @ 2.74%  
INV. UPPER=2173.52 INV. LOWER=2170.38
- 8 DI-1 W/ST-1; NO IS-1  
TOP=2177.52 H=4.50' (INCLUDES 6" SUMP)  
15" HDPE OUT=2173.52
- 9 105.25 LF OF 15" TYPE S HDPE @ 1.25%  
INV. UPPER=2171.80 INV. LOWER=2170.38
- 10 DI-1 W/ST-1; NO IS-1  
TOP=2178.04 H=6.84' (INCLUDES 6" SUMP)  
15" HDPE IN=2171.80  
15" HDPE OUT=2171.90

- 12 32.2 LF OF 15" TYPE S HDPE @ 1.57%  
INV. UPPER=2172.30 INV. LOWER=2171.80
- 13 48" MH-2 W/ST-1; IS-1  
TOP=2178.83 H=6.53'  
15" HDPE IN=2172.40  
15" HDPE OUT=2172.30
- 14 175.52 LF OF 15" TYPE S HDPE @ 1.00%  
INV. UPPER=2174.16 INV. LOWER=2172.40
- 15 DI-1 W/ST-1; NO IS-1  
TOP=2178.16 H=4.50' (INCLUDES 6" SUMP)  
15" HDPE OUT=2174.16
- 16 53.58 LF OF 24" ASTM C 443 CLASS III RCP @ 2.20%  
TOP=1988.50  
24" INV. OUT=1983.40
- 17 60" DIA. RISER STRUCTURE  
OUTLET CONTROL FLOW STRUCTURE  
SEE DETAIL SHEET C20  
TOP=1988.50  
24" INV. OUT=1983.40
- 18 73.14 LF OF 15" TYPE S HDPE @ 25.77%  
INV. UPPER=2048.78 INV. LOWER=2029.93
- 19 DI-5 W/ST-1; NO IS-1  
TOP=2052.78 H=5.50' (INCLUDES 18" SUMP)  
15" HDPE IN=2048.88  
15" HDPE OUT=2048.78
- 20 91.58 LF OF 15" TYPE S HDPE @ 34.46%  
INV. UPPER=2080.43 INV. LOWER=2048.88
- 21 DI-5 W/ST-1; NO IS-1  
TOP=2084.98 H=6.05' (INCLUDES 18" SUMP)  
15" HDPE IN=2080.53  
15" HDPE OUT=2080.43
- 22 110.51 LF OF 15" TYPE S HDPE @ 13.83%  
INV. UPPER=2095.82 INV. LOWER=2080.53

- 23 48" MH-2 W/ST-1; IS-1  
TOP=2100.72 H=4.89'  
15" HDPE IN=2095.92  
15" HDPE OUT=2095.82
- 24 50.04 LF OF 15" TYPE S HDPE @ 8.48%  
INV. UPPER=2100.16 INV. LOWER=2092.92
- 25 48" MH-2 W/ST-1; IS-1  
TOP=2105.25 H=5.09'  
15" HDPE IN=2100.26  
15" HDPE OUT=2100.16
- 26 159.86 LF OF 15" TYPE S HDPE @ 6.04%  
INV. UPPER=2109.93 INV. LOWER=2100.26
- 27 DI-5 W/ST-1; NO IS-1  
TOP=2114.89 H=5.46' (INCLUDES 6" SUMP)  
15" HDPE IN=2110.03  
15" HDPE OUT=2109.93
- 28 68.82 LF OF 15" TYPE S HDPE @ 10.04%  
INV. UPPER=2116.94 INV. LOWER=2110.03
- 29 DI-7 W/ST-1; NO IS-1; TYPE B GRATE  
TOP=2121.90 H=5.46' (INCLUDES 6" SUMP)  
15" HDPE OUT=2116.94
- 30 34.92 LF OF 15" TYPE S HDPE @ 6.39%  
INV. UPPER=2143.39 INV. LOWER=2141.15
- 31 DI-7 W/ST-1; NO IS-1; TYPE B GRATE  
TOP=2146.90 H=4.01' (INCLUDES 6" SUMP)  
15" HDPE IN=2143.39  
15" HDPE OUT=2143.39
- 32 48.79 LF OF 15" TYPE S HDPE @ 19.15%  
INV. UPPER=2152.83 INV. LOWER=2143.49
- 33 DI-7 W/ST-1; NO IS-1; TYPE B GRATE  
TOP=2158.89 H=6.56' (INCLUDES 6" SUMP)  
15" HDPE OUT=2152.83



## STANDARD GRADING NOTES

- CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- REFER TO BUILDING PLANS FOR SUBGRADE AND UTILITY TRENCHES WITHIN 5' OF THE BUILDING ENVELOPE.
- FINISH LAWN AREAS TO WITHIN ONE INCH ABOVE OR BELOW REQUIRED SUBGRADE ELEVATIONS. SHAPE SURFACE UNDER WALKS AND PAVEMENTS TO LINE, GRADE, AND CROSS SECTION, WITH NOT MORE THAN 1/2" ABOVE OR BELOW REQUIRED SUBGRADE ELEVATION.
- SPREAD TOPSOIL TO A UNIFORM COMPACTED DEPTH OF 2" ON 3:1 OR STEEPER SLOPES AND 4" OVER ALL OTHER DISTURBED AREAS NOT RECEIVING WALKS, PAVEMENT, WALLS OR BUILDING, INCLUDING TRENCHES (SEE TABLE 3.30-A). CARE SHALL BE TAKEN ENSURE PROPER BONDING AND NOT TO APPLY TOPSOIL TO SUBSOIL IF THE TWO SOILS HAVE CONTRASTING TEXTURES (CLAYEY VS. SANDY). IMMEDIATELY FOLLOWING PLACEMENT OF TOPSOIL, DISK THE ENTIRE TOPSOILED AREA AND RAKE FREE OF STONES AND DEBRIS OVER 1/2" IN ANY DIMENSION. PROVIDE A FINISHED SURFACE FREE OF DEPRESSIONS OR HIGH SPOTS. SEED IMMEDIATELY.
- ALL ROOF DOWNSPOUTS SHALL DISCHARGE TO A 6" HDPE ROOF DRAIN. ROOF DRAINS SHALL CONNECT UNDERGROUND TO AN 8" MIN. HDPE COLLECTION PIPE. DRAIN PIPES SHALL HAVE A MINIMUM SLOPE OF 1.0% AND DISCHARGE INTO STORM SEWER.
- MINIMUM COVER OVER COLLECTION PIPES SHALL CONFORM TO MANUFACTURER'S STANDARD.
- HANDICAP PARKING AREA SHALL HAVE A MAXIMUM SLOPE OF 1:48 IN ANY DIRECTION.
- HANDICAP ACCESS ROUTE SHALL HAVE A MAXIMUM RUNNING SLOPE OF 1:20 AND A MAXIMUM CROSS SLOPE OF 1:48 IN ACCORDANCE WITH ADA GUIDELINES. RAMPS SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION.

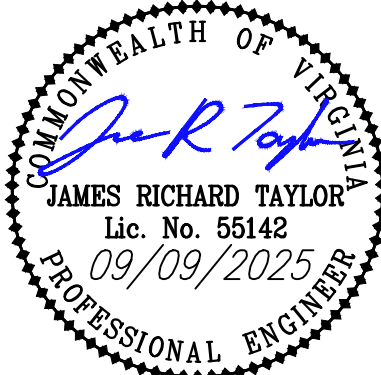


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J.C. MARTIN, INC. - NEW OFFICE

GRADING PLAN - AREA A

SHAWVILLE MAGISTERIAL DISTRICT, MONTGOMERY COUNTY  
TOWN OF CHRISTIANSBURG, VIRGINIA

DRAWN BY ACN  
DESIGNED BY ACN  
CHECKED BY JRT  
DATE 08/13/2024  
SCALE 1"=30'  
REVISIONS  
12/13/2024  
02/13/2025  
08/11/2025  
09/09/2025

**C9**  
PROJECT NO. 24230177.00