

CADD VERSION

PLOT SCALE

PLOT DATE 8/21/2018 4:28:55 PM SAVE DATE

COMM NO.

DRAWING NO.

GRADING & STORM DRAINAGE GENERAL NOTES:

- HORIZONTAL (NAD 83/93) AND VERTICAL (NAVD88) CONTROL WAS ESTABLISHED BY STATIC GPS SURVEY COMPLETED ON JULY 21, 2015 BY MATTERN AND CRAIG, INC. (TIMOTHY W. CALDWELL, L.S.) USING ROANOKE CITY CONTROL NETWORK MONUMENT "PRESTON". BENCHMARK AND CONTROL POINTS SHOWN ON PLANS.
- 2. TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD SURVEY PERFORMED BY MATTERN & CRAIG, P.C. - DATED JULY 21, 2015. CONTOUR INTERVAL SHOWN IS ONE (1) FOOT.
- 3. THE PROJECT PROPERTY IS LOCATED IN FEMA DEFINED ZONE "UNSHADED X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON FLOOD INSURANCE RATE MAP PANEL 51161C0162G, EFFECTIVE DATE SEPTEMBER 28, 2007. THIS DETERMINATION IS BASED ON SAID MAP AND HAS NOT BEEN VERIFIED BY ACTUAL FIELD ELEVATIONS. THE PROJECT PROPERTY DOES NOT LIE WITHIN THE LIMITS OF A SPECIAL FLOOD HAZARD AREA AS DESIGNATED BY FEMA.
- 4. UNLESS DIRECTED OTHERWISE OR NOTED ON THE PLANS, THE BUILDING PAD SUBGRADE SHALL GRADED TO AN ELEVATION 8-INCHES BELOW THE PUBLISHED FINISHED FLOOR OR BASEMENT FLOOR ELEVATION. REFER TO ARCHITECTURAL AND STRUCTURAL FOUNDATION PLANS FOR ADDITIONAL INFORMATION REGARDING SLAB THICKNESS, STONE SUB-BASE, AND OTHER FOOTING EXCAVATIONS.
- 5. WHERE SHOWN CLEAN-OUTS FOR ROOF DRAIN SYSTEM SHALL BE SET IN 6" DIAMETER CAST IRON VALVE BOX (ITEM #NPN-CW-18 BY CAPITOL FOUNDRY OF VA, INC., OR APPROVED EQUAL) WITH TOP SET FLUSH WITH FINISHED PAVED GRADE OR GRASS SURFACE ELEVATION.
- 6. UPON COMPLETION OF THE STORM DRAINAGE SYSTEM, THE CONTRACTOR SHALL FURNISH TO THE OWNER WITH A FIELD SURVEYED FINAL CORRECT SET OF AS-BUILT PLANS OF THE NEWLY CONSTRUCTED STORM DRAIN AND/OR STORMWATER MANAGEMENT FACILITIES. 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.
- 7. UNLESS OTHERWISE NOTED, NEW AND EXISTING STORM DRAINAGE PIPES AND OPEN CHANNELS ON THE PROJECT SITE ARE PRIVATELY OWNED, OPERATED, AND MAINTAINED.
- 8. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE "UNDERGROUND UTILITY DAMAGE PREVENTION ACT" AND SHALL CONTACT THE VIRGINIA UTILITY PROTECTION SERVICE (MISS UTILITY OF VIRGINIA) BY CALLING 811 OR 1-800-552-7001 AT LEAST 72 HOURS PRIOR TO PERFORMING EXCAVATIONS.
- 9. THE WORK OF THE PROJECT INVOLVES LAND DISTURBANCES OF MORE THAN ONE (1) ACRE. THE CITY OF ROANOKE AND VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) SHALL REQUIRE THE WORK TO BE PERMITTED IN ACCORDANCE WITH THE PROVISIONS OF THE "GENERAL PERMIT FOR DISCHARGES OF STORMWATER FROM CONSTRUCTION ACTIVITIES - AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP)" AND THE VIRGINIA STORMWATER MANAGEMENT ACT. THE OWNER/DEVELOPER HAS APPLIED FOR COVERAGE UNDER THE "VSMP GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES (VAR10). " EVIDENCE OF COVERAGE UNDER THE "VSMP GENERAL PERMIT" MUST BE PROVIDED PRIOR TO BEGINNING ANY LAND DISTURBANCE ON THE PROPERTY. A COPY OF THE "VSMP GENERAL PERMIT" AND THE "STORMWATER POLLUTION PREVENTION PLAN (SWPPP)" MUST BE KEPT ON THE JOB SITE AT ALL TIMES AND THE "VSMP GENERAL PERMIT COVERAGE LETTER" MUST BE POSTED AT THE PROJECT SITE.

## GRADING / STORM DRAINAGE KEYNOTES:

- 1 NEW STORM DRAIN SYSTEM. REFER TO STORM DRAINAGE PROFILES SHOWN ON SHEET C5.2 FOR STRUCTURE AND STORM DRAINAGE LINE INFORMATION AND STORM DRAINAGE
- 2 STORM DRAIN ROOF LEADER (RD) AND COLLECTION LINE SHALL BE PVC SDR-35 (SIZE 6" SLOPING @ 1.0 % MINIMUM UNLESS OTHERWISE NOTED). SITE CONTRACTOR TO INSTALL ROOF LEADER COLLECTION LINES FROM STORM DRAIN MAIN / MANHOLE TO POINT SHOWN OR TO WITHIN 5-FEET OF BUILDING. BUILDING CONTRACTOR SHALL CONNECT DOWN SPOUT AND DEDICATED BUILDING STORM DRAIN LINES TO STORM DRAIN ROOF LEADER (RD). REFER TO ARCHITECTURAL PLAN FOR LOCATION OF DOWNSPOUTS AND REFER TO SHEET P1.1 FOR LOCATION OF BUILDING STORM DRAIN LINE.
- NEW SANITARY SEWER LINE AND WATER LINE SHOWN FOR INFORMATION AND COORDINATION PURPOSES ONLY. CONTRACTOR SHALL CONFIRM LOCATION & INVERT OF EXISTING AND NEW UTILITY LINES PRIOR TO INSTALLATION OF STORM DRAINAGE. REFER TO SHEET C4.1 FOR ADDITIONAL INFORMATION.
- BMP NO. 2 SEE "BMP SCHEDULE" ON THIS SHEET. REFER TO SHEET C5.1 FOR ENLARGED PLAN AND DETAILS AND SECTIONS.
- 5 NEW RETAINING WALL. REFER TO SHEET C6.2 FOR WALL ELEVATIONS, TYPICAL SECTION, AND DESIGN / CONSTRUCTION NOTES.
- 6 GRASS-LINED SWALE. DRAIN TO SD-26.

**LEGEND:** 

(SIZE DENOTED)

FOUNDATION DRAIN

SPOT ELEVATION

DOWN-SPOUT LOCATION

STORM STRUCTURE TAG

ROOF DRAIN COLLECTOR

(SIZE AND FLOW DIRECTION DENOTED)

(SEE SHEET C5.2 FOR PROFILE AND STRUCTURE DATA)

- ADJUST FRAME AND COVER OF EXISTING STORM DRAIN MH D2 TO NEW FINISHED GRADE. REFER TO PROFILE ON SHEET C4.2 FOR TOP ELEVATION.
- 8 BMP NO. 1 SEE "BMP SCHEDULE ON THIS SHEET. REFER TO SHEET C5.3 FOR DETAIL.
- 9 AREA DRAINS WITHIN PATIO AREA (AD-2 THRU AD-4) SHALL CONFORM TO 24" SQUARE
- AREA DRAIN (HDPE) WITH SLOTTED HEEL-PROOF DUCTILE IRON GRATE. ZURN INDUSTRIES MODEL Z887-24 CATCH BASIN OR EQUAL MEETS THIS PRODUCT SPECIFICATION.
- 10 AREA DRAIN WITHIN GRASSED AREA (AD-1) SHALL CONFORM TO 12" DIAMETER DRAIN BASIN WITH 12" DIAMETER DROP-IN DUCTILE IRON GRATE. HYLOPLAST "INLINE DRAIN WITH STANDARD GRATE" OR EQUAL MEETS THIS PRODUCT SPECIFICATION.

## aig

GENERAL NOTES

P WM. THOMAS AUSTIN Lic. No. 030907

M&C 3836 PROJECT TITLE

## **ROANOKE FIRE-EMS STATION #7**

BID SET

SFCS Inc. • 305 South Jefferson Street Roanoke, Virginia 24011.2003 540.344.6664 Fax 540.343.6925 www.sfcs.com

PROJECT DESIGNER	<u>:</u>			
PROJECT ARCHITECT	•			
PROJECT ENGINEER	:	WTA		
DRAWN BY	•	ARB		
CHECKED BY	•	WTA		
APPROVED BY	•	WTA		
NO.	REVISION DESCRIPTION		DAT	
$\Lambda$	Addendum	No.	4	3/22/19
<u>^</u>	Addendum	No.	5	7/11/19

**GRADING & STORM** DRAINAGE PLAN

FEBRUARY 20, 2019