

Revisions:
VA FORM 08 - 6231

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NORRIS DESIGN

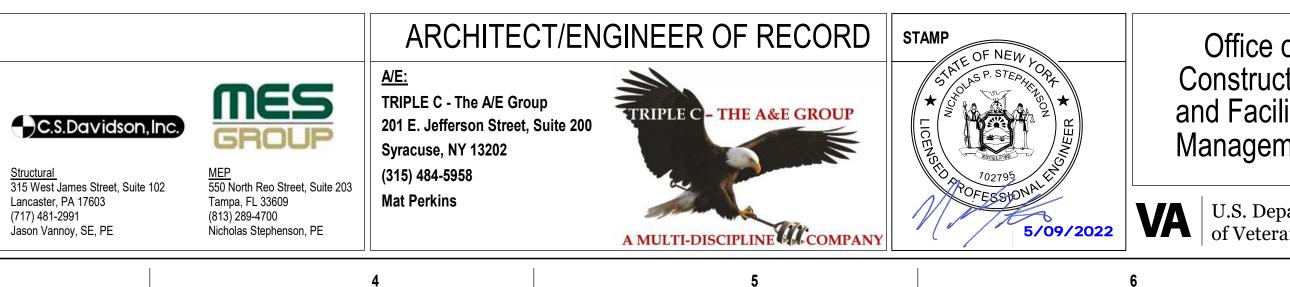
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Date:



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Т	TECTION SPRINKLER SYSTEM DESIGN CRITERIA							
E	REMOTE AREA	MAXIMUM COVERAGE AREA PER SPRINKLER	MAXIMUM SPACING	WATER SUPPLY DURATION	OUTSIDE HOSE ALLOWANCE	TEMPERATURE CLASSIFICATION	SPRINKLER TYPE	NOTES
	FT ²	FT ²	FT.	MINUTES	GPM			
	1,500	225	15	30	100	ORDINARY	SEMI-RECESSED PENDENT, QUICK RESPONSE, FACTORY MUTUAL APPROVED, UL LISTED	1
	1,500	130	15	60-90	250	ORDINARY	SEMI-RECESSED PENDENT OR UPRIGHT, QUICK RESPONSE, FACTORY MUTUAL APPROVED, UL LISTED	1
	1,500	130	15	60-90	250	INTERMEDIATE	QUICK RESPONSE UPRIGHT, FACTORY MUTUAL APPROVED, UL LISTED	1
	1,500	130	15	60-90	250	ORDINARY	PENDENT OR UPRIGHT, QUICK RESPONSE, FACTORY MUTUAL APPROVED, UL LISTED	1

1. WATER DEMAND REQUIREMENTS ARE FOR HYDRAULIC CALCULATION METHOD. IF OTHER METHOD IS USED ADJUST VALUES ACCORDING TO NFPA 13 REQUIREMENTS.

WATER FLOW TEST DATA

		PSI
	1190	GPM
	50	PSI
	10/24/2020	
DCATION:		
TION:	Hydrant #15	

DELEGATED DESIGN REQUIREMENTS THESE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS REPRESENT THE OVERALL SCOPE, DESIGN INTENT, AND COVERAGE AREA FOR THE FIRE PROTECTION SYSTEM WITHIN THE PROJECT SCOPE. DELEGATED ENGINEER IS RESPONSIBLE FOR DESIGNING A FIRE PROTECTION SYSTEM FOR THE ENTIRE BUILDING, PERMITTED AND APPROVED PER NFPA AND BY THE AUTHORITY HAVING JURISDICTION. B. DELEGATED ENGINEER SHALL PROVIDE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS TO THE ENGINEER OF RECORD AND AUTHORITY HAVING JURISDICTION, INCLUDING THE FOLLOWING AS APPLICABLE, BUT NOT LIMITED TO: a. SPRINKLER SYSTEM DRAWINGS, INCLUDING SPRINKLER SYSTEM LAYOUT, NODE IDENTIFICATION AND NODE SPOT ELEVATIONS. b. HYDRAULIC CALCULATIONS AND PIPE SIZES. SIZE PIPING TO PROVIDE AN EXCESS RESIDUAL PRESSURE OF 10 PSI AT THE HYDRAULICALLY MOST DEMANDING POINT AT SYSTEM DESIGN FLOW.

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- c. SPRINKLER SYSTEM DESIGN, CALCULATIONS, DETAILED WORKSHEETS, WATER SUPPLY CURVE, AND SPRINKLER SYSTEM DEMAND CURVE.
- d. SPRINKLER HEAD PRODUCT DATA SHEETS WITH SPECIFIC SYSTEM COMPONENTS IDENTIFIED.
- e. ADDITIONAL SPRINKLER SYSTEM SPECIFICATIONS AS REQUIRED FOR COMPLIANCE WITH NFPA 13, CHAPTER 8 PLANS AND CALCULATIONS, PRIOR TO AUTOMATIC SPRINKLER SYSTEMS INSTALLATION. f. ALL NECESSARY COMPONENTS, SYSTEMS MATERIALS, ASSEMBLIES,
- EQUIPMENT, AND SUPPORT SYSTEMS REQUIRED. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATION OF
- RISERS, CROSS MAINS, BRANCH LINES, AND SPRINKLER HEADS WITH ALL OTHER TRADE SYSTEMS TO AVOID CONFLICTS AND MAINTAIN ARCHITECTURAL ELEMENTS OF THE BUILDING.
- D. COORDINATE SPRINKLER HEAD TYPES AND LOCATIONS WITH ARCHITECTURAL FINISHES AND OTHER CEILING MOUNTED DEVICES.

FIRE SPRINKLER LEGEND

•	PENDENT SPRINKLER					
×	UPRIGHT SPRINKLER					
\bigtriangledown	SIDEWALL SPRINKLER					

EXISTING ABOVE FINISHED FLOOR BELOW FINISHED FLOOR EXISTING INTERNATIONAL BUILDING CODE INVERT ELEVATION NORMALLY CLOSED

NORMALLY OPEN

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	FIRE P	ROTEC		OTES			
INDICATE TEMPORA ARE REM NEW DRC INDICATE	D ON THE CONTR ARY UPRIGHT SPP OVED FOR CONS DPS TO NEW PEN D EXISTING FIRE	ACT DRAWING RINKLER HEADS TRUCTION AND DENT SPRINKLE PROTECTION S	S FOR THIS PF 3 TO PROTECT 9 UNTIL NEW C ER ARE INSTAL SYSTEMS AND	T OF CONSTRUCTION AS ROJECT. PROVIDE SPACES WHERE CEILINGS EILINGS ARE INSTALLED AND LED. UNLESS OTHERWISE EQUIPMENT ARE TO REMAIN.			
THESE DO THE FIRE RESPONS PER NFPA CALCULA TO COMP	DCUMENTS REPR SPRINKLER SYST SIBLE FOR PROVII A AND BY THE AU TIONS, SHOP DR/ LETE THE INSTAL	ESENT THE DE IEM WITHIN THI DING A COMPLE THORITY HAVIN AWINGS, AND A LATION AND CO	SIGN INTENT A E PROJECT SC ETE FIRE SPRII IG JURISDICTIONA NY ADDITIONA	AND COVERAGE AREA FOR COPE. THE CONTRACTOR IS NKLER SYSTEM APPROVED ON. PROVIDE HYDRAULIC AL EQUIPMENT NECESSARY THE SPECIFICATIONS AND ALL			
ALL FIRE AND 101, 2018, AND CONFLICT	APPLICABLE CODES AND CRITERIA. ALL FIRE PROTECTION WORK SHALL MEET ALL THE REQUIREMENTS OF NFPA 13, 14, AND 101, VA FIRE PROTECTION DESIGN MANUAL, INTERNATIONAL BUILDING CODE 2018, AND APPLICABLE OSHA AND EPA REGULATIONS AND GUIDELINES. WHERE CONFLICTS BETWEEN CODE AND CONSTRUCTION DOCUMENTS OCCUR, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.						
 THE CONTRACTOR SHALL SUBMIT A SEPARATE PERMIT APPLICATION AND PLANS FOR REVIEW ACCORDING TO NFPA 1 (2018 EDITION), SECTION 1.14. A CONTRACTOR'S MATERIAL AND TEST CERTIFICATE SHALL BE COMPLETED IN ACCORDANCE WITH NFPA 13 AND FORWARDED TO THE OWNER'S 							
ALL MATE A THORO	UGH AND WORK	MANLIKE MANNI	ER. THE WOR	THE WORK SHALL BE DONE IN K, MATERIALS AND TEST REMENTS OF NFPA 13,			
CONTRAC SITE. CLA BECAUSE	CTOR HAS FAMILI. IMS MADE SUBSE	ARIZED THEMSI EQUENT TO THE S ENCOUNTERE	ELVES WITH T E PROPOSAL F ED WILL NOT B	ED AS EVIDENCE THAT THE HE PLANS AND BUILDING OR MATERIALS AND LABOR E RECOGNIZED IF THEY ON BEEN MADE.			
CEILINGS ASSEMBL TO MAINT FOR LOC/	, AND FLOOR ASS LES WITH FIREST AIN THE ASSEME ATIONS OF SMOK FOR FIRE PROTE	SEMBLIES. SEA OP MATERIAL II SLY RATING. RE E AND/OR FIRE	L ALL PENETR N ACCORDANC FER TO ARCH RATED WALLS	ED WALLS, PARTITIONS, ATIONS THROUGH RATED CE WITH UL REQUIREMENTS ITECTURAL DOCUMENTS S; REFER TO PENETRATION S THROUGH RATED			
REQUIRE WHO HAV	MENTS OF NFPA	13. SPRINKLER FACILITIES AND	S SHALL BE IN EXPERIENCE	HALL CONFORM TO THE ISTALLED BY PERSONNEL IN SUCH WORK AND WHO			
CROSS M SYSTEMS	AINS, BRANCH LI TO AVOID CONF CONTRACTOR T	NES, AND SPRI	NKLER HEADS	IE LOCATION OF RISERS, WITH ALL OTHER TRADE ECTURAL ELEMENTS OF THE DRAWING TO COR PRIOR TO			
. ALL BRAN				DRDING TO NFPA 13. E 1" MINIMUM, UNLESS			
OBSTRUC . COORDIN FINISHES	CTION REQUIREM	ENTS. HEAD TYPES AN NG, DUCTS, PIP		GS, SPACING, AND S WITH ARCHITECTURAL EILING MOUNTED DEVICES,			
AND STRU 5. LIGHT FIX SPRINKLE	UCTURAL COMPC	DNENTS. C DIFFUSERS T. IONAL COST AN	AKE PRECEDE ID AS NECESS	ENCE. ADD ADDITIONAL ARY TO MEET COVERAGE			
. INSTALL S	SPRINKLERS IN TH	HE CENTER OF	CEILING TILES	WHEN POSSIBLE. PROVIDE OW FIELD ADJUSTMENT.			
AFTER EC	QUIPMENT AND D ERS, IF NECESSAI	UCTWORK ARE	INSTALLED. F	ATION OF SPRINKLERS PROVIDE ADDITIONAL COVERAGE IN ACCORDANCE			
SUBJECT ELECTRIC	TO MECHANICAL	DAMAGE; INCL RWELL LANDIN	UDING IN MEC GS, ELEVATOR	S WHERE SPRINKLERS ARE CHANICAL ROOMS, R SHAFTS, AND ON ALL			
FITTINGS	CONFORMING TO	D ASTM A53. MI	NIMUM SIZE IS	ACK STEEL PIPE AND S ONE (1") INCH. SCHEDULE 10 D THINWALL PIPE.			
of an ap Piping. F	PROVED TYPE AN	ND IN SUFFICIEN	NT NUMBER TO	AND OTHER ACCESSORIES O PROPERLY SUPPORT ALL DUGHT U-TYPE APPROVED			
	PECIFICALLY PRO			SE IN ALL AREAS EXCEPT TH VA GUIDELINES AND NFPA			
WHERE E PROVIDE	XCESSIVE TEMPE	ERATURES ARE	ANTICIPATED	Y DEGREE RATING EXCEPT . IN THESE LOCATIONS IN ACCORDANCE WITH NFPA HAZARD AREAS.			
BOTTOM	OF THE SPRINKL	ER DEFLECTOF	R AND THE TOP	ARANCE BETWEEN THE P OF STORAGE, FILES, ETC.			
	L EXPOSED FIRE		ING RED.				
				AND MUST BE EXCERCISED			
	IN THE ORDER	PRESENTED) F TERNATE REFE	OR A DETAILE	D DESCRIPTION OF EACH SHEET ON GI000 NEL (EAST LEG).			
ı							
	AWING IN			OTECTION			
00 01 01A	FIRE PROTECTIO FIRE PROTECTIO FIRE SPRINKLER	N SITE PLAN N OVERALL FLC FLOOR PLAN - L	OOR PLAN - LE\ _EVEL 1 - AREA	A A			
02 01A	FIRE SPRINKLER FIRE SPRINKLER FIRE PROTECTIO FIRE PROTECTIO	OVERALL FLOO N HAZARD PLAN	R PLAN - PENT N - LEVEL 1 - AF	THOUSE REA A			
Project T NEV	^{itle} V COMM	UNITY L	.IVING	Project Number 620-334			
NEV CEN		UNITY L	.IVING	620-334 Building Number CLC			
NEV CEN	V COMM ITER any Post Road, M			620-334 Building Number			

e of iction cilities	Drawing Title FIRE PROTECTION LEGENDS & NOTES	ISSUED FOR CONSTRUCTION	Project Title NEW COMMUNIT CENTER		
ement	Approved:		Location 2094 Albany Post Road, Montrose, N		
epartment erans Affairs		FULLY SPRINKLERED	Issue Date 05/09/2022	Checked CJF/NPS	
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ABBREVIATIONS



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