

CODE ANALYSIS

OCCUPANCY GROUP: A, B, I-2
 SPRINKLERED: YES
 SQUARE FOOTAGE: 18,130
 NUMBER OF STORIES: 1
 SYSTEM TYPE: ADDRESSABLE

EDITION OF CODES:
 2011 VA DESIGN MANUAL
 2009 IBC/IFC
 2007 NFPA 70
 2010 NFPA 72
 2009 NFPA 90
 2009 NFPA 101

- FIRE ALARM CONTROL PANEL
- FIRE ALARM EVACUATION PANEL
- FIRE ALARM POWER SUPPLY
- FIRE ALARM REMOTE ANNUCIATOR
- EVACUATION REMOTE MICROPHONE
- SMOKE DETECTOR (PHOTOELECTRIC)
- HEAT DETECTOR 135° TEMP
- PULL STATION
- DUCT DETECTOR
- REMOTE TEST/RESET STATION
- ADDRESSABLE RELAY MODULE
- ADDRESSABLE INPUT MODULE
- ADDRESSABLE OUTPUT MODULE
- KITCHEN HOOD
- WATERFLOW SWITCH
- VALVE WITH TAMPER SWITCH
- DOOR HOLDER
- (NUMBER INDICATES WATTAGE SPEAKER WITH STROBE (LISTED FOR LOW FREQUENCY USE))
- (NUMBER INDICATES WATTAGE SPEAKER WITH STROBE (NUMBER INDICATES CANDELA))
- STROBE (NUMBER INDICATES CANDELA)
- HORN WITH STROBE (NUMBER INDICATES CANDELA)
- END OF LINE RESISTOR
- FIRE DEPARTMENT CONNECTION

LEGEND
 NFPA 170 2012

SHOWS CEILING HEIGHT

BID NOTE:
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KEY NOTES

1. SPEAKER/STROBES SHALL BE PROVIDED IN COMMON AREAS.
2. LOW FREQUENCY LISTED SPEAKERS SHALL BE PROVIDED IN SLEEPING ROOMS.
3. AUDIO EVACUATION SYSTEM SHALL BE LISTED FOR LOW FREQUENCY OPERATION.
4. 520 HZ TONE TEMPORAL THREE PATTERN SHALL BE UTILIZED.



FIRE ALARM PLAN
 PLAN NORTH 1/8" = 1'-0"

No.	Description	Date
0	35% NOT FOR CONST.	07.07.16
1	65% NOT FOR CONST.	08.18.16

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**VISN 19: ROCKY MOUNTAIN NETWORK
 EASTERN COLORADO
 HEALTHCARE SYSTEM**

Drawing Title:
**FIRST FLOOR FIRE
 ALARM PLAN**

Scale:
1/8" = 1'-0"

Approved:

Project Title:
**VA PTSD TREATMENT
 FACILITY - AURORA**

Building Number:
 00

Location:
 N Wheeling St. & E 19th Pl.
 Aurora, CO 80011

Date:
12/07/2016

Project No.:
 2000.01

Drawing No.:
FA-1

REV
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Sheet Of

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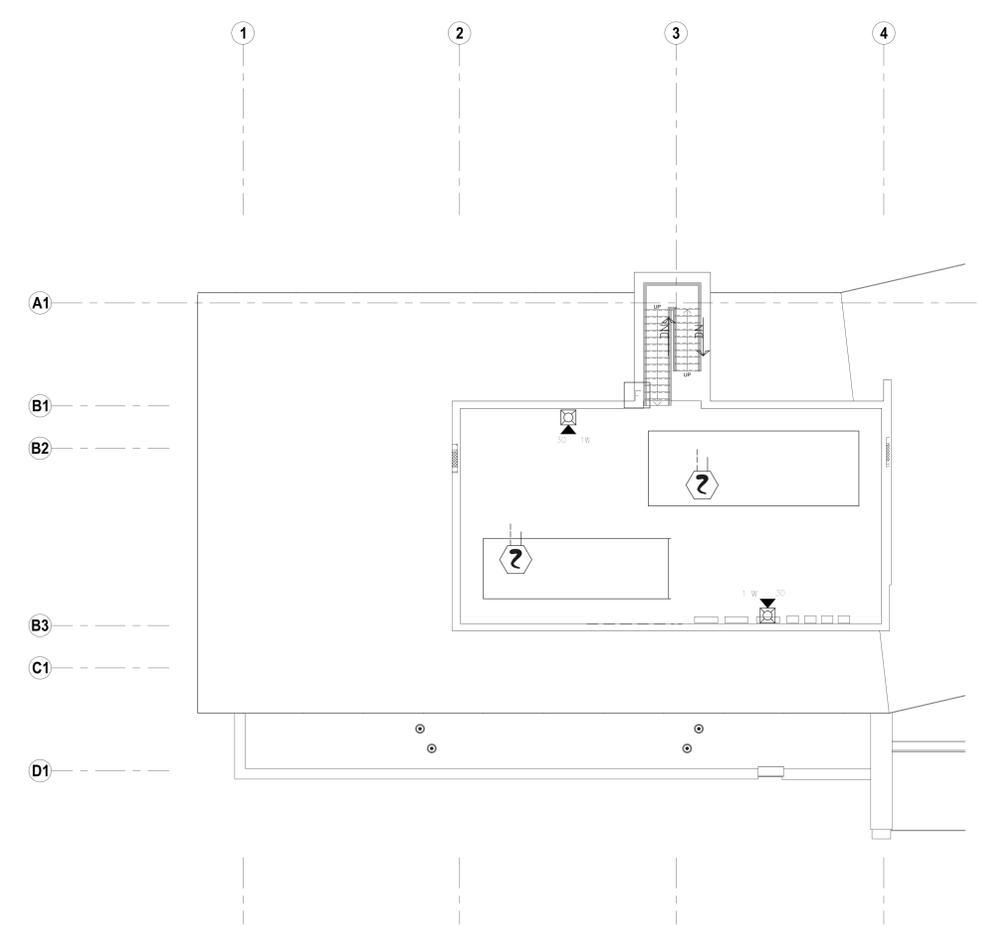
three eighths inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 one half inch = one foot
 three quarters inch = one foot
 one inch = one foot
 one and one eighth inches = one foot
 one and one quarter inches = one foot
 one and one half inches = one foot
 one and three quarters inches = one foot
 two inches = one foot
 two and one eighth inches = one foot
 two and one quarter inches = one foot
 two and one half inches = one foot
 two and three quarters inches = one foot
 three inches = one foot
 three and one eighth inches = one foot
 three and one quarter inches = one foot
 three and one half inches = one foot
 three and three quarters inches = one foot
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 nine and three quarters inches = one foot
 ten inches = one foot
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 ten and one quarter inches = one foot
 ten and one half inches = one foot
 ten and three quarters inches = one foot
 eleven inches = one foot
 eleven and one eighth inches = one foot
 eleven and one quarter inches = one foot
 eleven and one half inches = one foot
 eleven and three quarters inches = one foot
 twelve inches = one foot

-  FIRE ALARM CONTROL PANEL
-  FIRE ALARM EVACUATION PANEL
-  FIRE ALARM POWER SUPPLY
-  FIRE ALARM REMOTE ANNUNCIATOR
-  EVACUATION REMOTE MICROPHONE
-  SMOKE DETECTOR (PHOTOELECTRIC)
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-  ADDRESSABLE OUTPUT MODULE
-  KITCHEN HOOD
-  WATERFLOW SWITCH
-  VALVE WITH TAMPER SWITCH
-  DOOR HOLDER
-  ^{1/400} (NUMBER INDICATES WATTAGE) SPEAKER WITH STROBE (LISTED FOR LOW FREQUENCY USE)
-  ^{1/40} (NUMBER INDICATES WATTAGE) SPEAKER WITH STROBE (NUMBER INDICATES CANDELA)
-  STROBE (NUMBER INDICATES CANDELA)
-  ^{1/75} (NUMBER INDICATES WATTAGE) HORN WITH STROBE (NUMBER INDICATES CANDELA)
-  END OF LINE RESISTOR
-  FIRE DEPARTMENT CONNECTION

LEGEND
 NFPA 70: 2012

 SHOWS CEILING HEIGHT

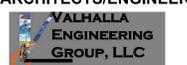
UPPER MECH ROOM FIRE ALARM PLAN
 PLAN NORTH 1/8" = 1'-0"



	Control Panel	Annunciation	Notification	Safety Control	
1	X	X	X	X	1 Manual Pull Station
2	X	X	X	X	2 Area Smoke Detector
3	X	X	X	X	3 Duct Smoke Detector
4	X	X	X	X	4 Water Flow Switch
5	X	X	X	X	5 Sprinkler Tamper Switch
6	X	X	X	X	6 Ground Fault
7	X	X	X	X	7 Open Circuit
8	X	X	X	X	8 Notification Appliance Short Circuit
9	X	X	X	X	9 Low Battery
10	X	X	X	X	10 AC Power Failure (1 Hour Delay)
11	X	X	X	X	11 Telephone Line Fault
12	X	X	X	X	12 Silence Feature of FACP

 SEQUENCE OF OPERATIONS

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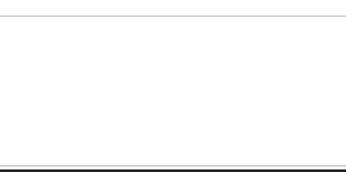
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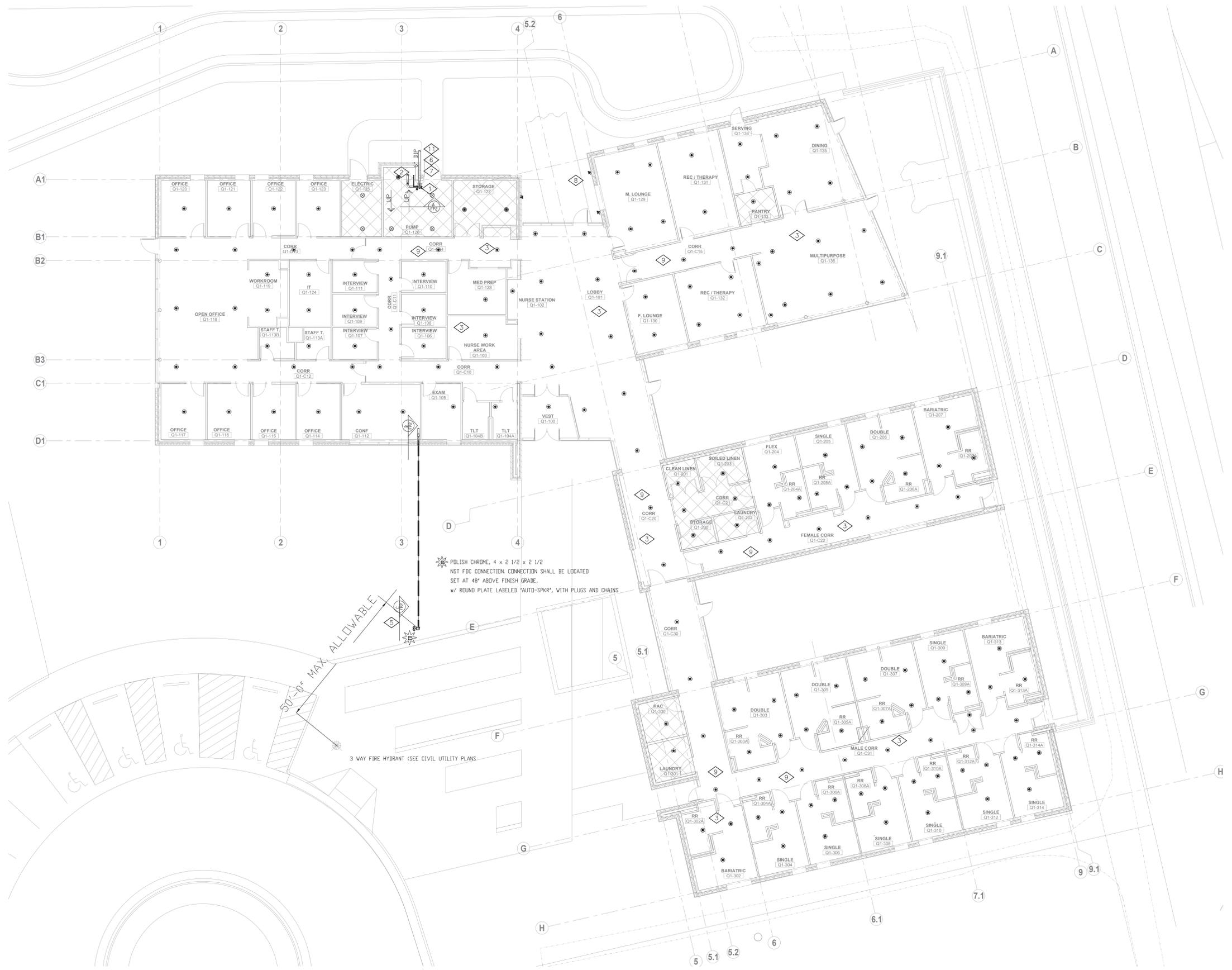

**VISN 19: ROCKY MOUNTAIN NETWORK
 EASTERN COLORADO
 HEALTHCARE SYSTEM**

Drawing Title:
**PENTHOUSE FIRE
 ALARM PLAN**
 Scale: **1/8" = 1'-0"**
 Approved:

Project Title:
**VA PTSD TREATMENT
 FACILITY - AURORA**
 Building Number: 00
 Location: N Wheeling St. & E 19th Pl.
 Aurora, CO 80011

Date: **12/07/2016**
 Project No.: **2000.01**
 Drawing No.: **FA-2**
 REV **0**
 Sheet **0** of





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KEY NOTES

1. LOCATION OF FIRE SPRINKLER RISER / BACKFLOW PREVENTER
2. LOCATION OF FULL FORWARD FLOW TEST CONNECTION FOR BFP
3. SPRINKLER PIPING SHALL BE CONCEALED EXCEPT IN AREAS OF EXPOSED STRUCTURE
4. PROVISIONS SHALL BE MADE FOR DRAINING SPRINKLER SYSTEM PIPE PER NFPA 13 REQUIREMENTS.
5. SIDEWALK FIRE DEPARTMENT CONNECTION, UNDERGROUND PIPE AND FITTINGS (BY OTHERS) PER VA REQUIREMENTS THE FDC SHALL BE LOCATED WITHIN 50' OF A FIRE HYDRANT.
6. AWARDED FIRE PROTECTION CONTRACTOR SHALL OBTAIN A CURRENT FLOW TEST MODEL FROM THE AURORA WATER DEPARTMENT.
7. WATER PRESSURE SHALL BE REDUCED BY 10% FROM ORIGINAL FLOW TEST / MODEL PER STATE OF COLORADO REQUIREMENTS.
8. DRY HORIZONTAL SIDEWALL SPRINKLERS PROTECTING COVERED PATIO AREA.
9. FIRE SPRINKLER SYSTEMS SHALL BE DESIGNED SUCH THAT FIRE SPRINKLER ZONE(S) SHALL MATCH SMOKE ZONES. REFER TO SHEET LS101
10. 2ND LEVEL MECH MEZZANINE WILL BE ON THE SAME SMOKE ZONE AS THE PUMP ROOM
11. REFER TO CIVIL UTILITY PLAN FOR LOCATIONS OF UNDERGROUND WATER MAINS, AND SITE FIRE HYDRANTS.

INDICATES AREA OF ORDINARY HAZARD 2 OCCUPANCY

INDICATES AREA OF LIGHT HAZARD OCCUPANCY

FIRE PROTECTION PLAN
 PLAN NORTH 1/8" = 1'-0"

SYMBOL	DESCRIPTION	FINISH	TYPE	SIZE	SPRINKLER	SPRINKLER	SPRINKLER	SPRINKLER	SPRINKLER
○	DOWN-RECESSED OR PEND MTL LINK	WHITE	1/2"	5.6	1/2"	1/2"			
○	OR UPRIGHT MTL LINK	BRASS	200	5.6	1/2"	1/2"			
○	OR DRY HSW	BRASS	212	5.6	1/2"	1/2"			
○	INSTITUTIONAL OR PENDENT	WHITE	155	5.6	1/2"	1/2"			

No.	Description	Date
0	35% NOT FOR CONST.	07.07.16
1	65% NOT FOR CONST.	08.18.16
2	95% NOT FOR CONST.	09.02.16

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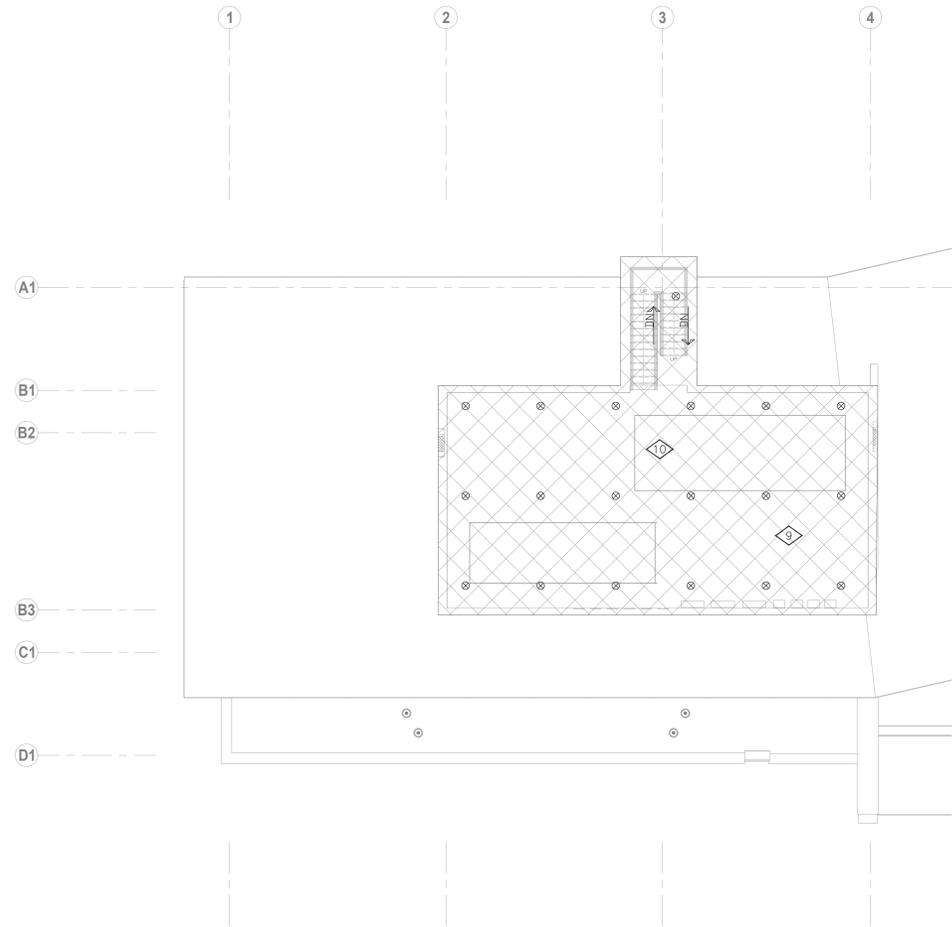
**VISN 19: ROCKY MOUNTAIN NETWORK
 EASTERN COLORADO
 HEALTHCARE SYSTEM**

FOR CONSTRUCTION
 Drawing Title:
**FIRST FLOOR FIRE
 PROTECTION PLAN**
 Scale: **1/8" = 1'-0"**
 Approved:

Project Title:
**VA PTSD TREATMENT
 FACILITY - AURORA**
 Building Number: **00**
 Location: **N Wheeling St. & E 19th Pl
 Aurora, CO 80011**

Date: **12/07/2016**
 Project No.: **164-051**
 Drawing No.: **FP-1**
 Sheet **1** of **1**





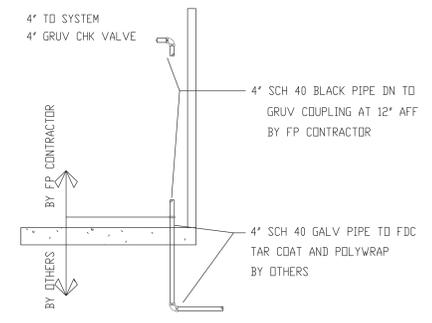
UPPER MECH ROOM FIRE PROTECTION PLAN
 PLAN NORTH 1/8" = 1'-0"

- INDICATES AREA OF ORDINARY HAZARD 2 OCCUPANCY
- INDICATES AREA OF LIGHT HAZARD OCCUPANCY

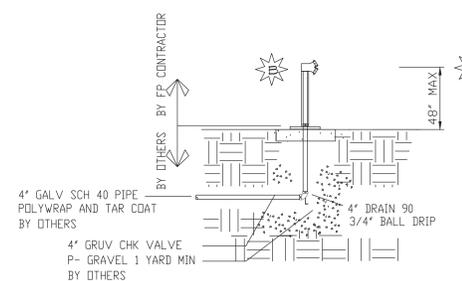
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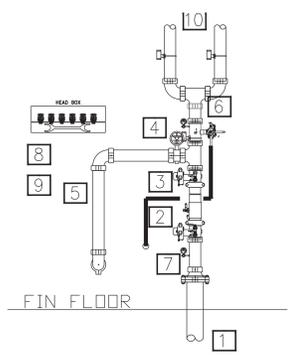


(B) INTERIOR FDC PIPING DETAIL
 NOT TO SCALE



(C) SIDEWALK FIRE DEPT CONNECTION DETAIL
 NOT TO SCALE

POLISH CHROME, 4 x 2 1/2 x 2 1/2
 NST FDC CONNECTION. CONNECTION SHALL BE LOCATED SET AT 48" ABOVE FINISH GRADE,
 w/ ROUND PLATE LABELED "AUTO-SPKR", WITH PLUGS AND CHAINS



- 1 6" FP UNDERGROUND LEAD IN
- 2 AMES 200 COLT DBL CHK ASSY w/ GRUV BUTTERFLY VALVES
- 3 GRUV TEE FOR BFP FULL FORWARD FLOW TEST CONNECTION
- 4 GRUV BUTTERFLY VA w BUILT IN TAMPER SW (NORM CLOSED)
- 5 PIPE DOWN AND OUT WALL TO A GRUV CAP
- 6 READY RISER w/ 175# RELIEF VALVE.
- ROUTE 2" MAIN DRAIN DOWN AND OUT WALL TO 2" GALV 45° ELL
- 7 300# WATER GAUGE (CITY SIDE)
- 8 12 HEAD SPARE CABINET w/ WRENCHES
- 9 METALLIC HYDRAULIC PLACARDS PER NFPA REQUIREMENTS PERMANENTLY AFFIXED TO WALL
- 10 SEPARATION FOR 2 SMOKE ZONES, INSTALL FLOW SW. FOR EACH ZONE

(A) FP RISER DETAIL
 NOT TO SCALE

SYM	TEST NAME	FINISH	TEMP	TK	INPT	DRIP	SPG.	INDELS	ESCU
●	SEMI-RECESSED OR PEND MTL LINK	WHITE	155	5.6	1/2"	1/2"			
○	DR UPRIGHT MTL LINK	BRASS	200	5.6	1/2"	1/2"			
◐	DR DRY HSW	BRASS	210	5.6	1/2"	1/2"			
●	INSTITUTIONAL DR PENDENT	WHITE	155	5.6	1/2"	1/2"			

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Project Title:
**VISN 19: ROCKY MOUNTAIN NETWORK
 EASTERN COLORADO
 HEALTHCARE SYSTEM**



Project Title:
**VA PTSD TREATMENT
 FACILITY - AURORA**

Drawing Title:
**SECOND FLOOR FIRE
 PROTECTION PLAN**

Date: 12/07/2016
 Project No.: 164-051
 Building Number: 00
 Checked by: KLM
 Drawn by: JLD
 Location: N Wheeling St. & E 19th Pl
 Aurora, CO 80011

Scale: 1/8" = 1'-0"
 Approved:
 Drawing No.: FP-2
 REV 0
 Sheet Of

