

ADDENDUM NO. 2

PROJECT NAME: SAFD Warehouse Fire Protection Systems

DATE: 9/13/13

This addendum should be included in and be considered part of the plans and specifications for the name of the project. The contractor shall be required to sign an acknowledgement of the receipt of this addendum and submit with their bid.

CIMS PROJECT NO.: 20-01050

PLAN SHEET FS1.1

- Revise Keyed Note No. 2 to read as follows:
“Remove fire sprinkler piping in its entirety, including associated sprinkler heads and pipe hangers/supports. Piping shall be owner salvage. Contractor shall lay removed piping outside of the building within the fenced parking lot, supported off grade, in a neat orderly manner.”
- On Detail No. 2, add provisions for new sprinkler piping to facilitate removal of upright heads to pendant heads in the future when the mezzanine is converted to a sleeping dorm area with a lay-in ceiling.

PLAN SHEET M1.1

- Delete this sheet in its entirety and replace with attached sheet M1.1R.

PLAN SHEET E1.1

- Revise power circuitry to suspended gas-fired heaters on Detail No. 1. Refer to attached sheet E1.1.

Note: Addenda Acknowledgement Form for Addendum 2 is attached herein. This form must be signed and submitted with the bid package.

RECEIPT OF ADDENDUM NUMBER(S) 2 IS HEREBY ACKNOWLEDGED FOR PLANS AND

SPECIFICATIONS FOR CONSTRUCTION OF SAFD WAREHOUSE FIRE PROTECTION SYSTEMS – 20-01050

FOR WHICH BIDS WILL BE OPENED ON TUESDAY, SEPTEMBER 24, 2013 AT 2:00 P.M.

THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH THE BID PACKAGE.

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

Signature

Print Name/Title

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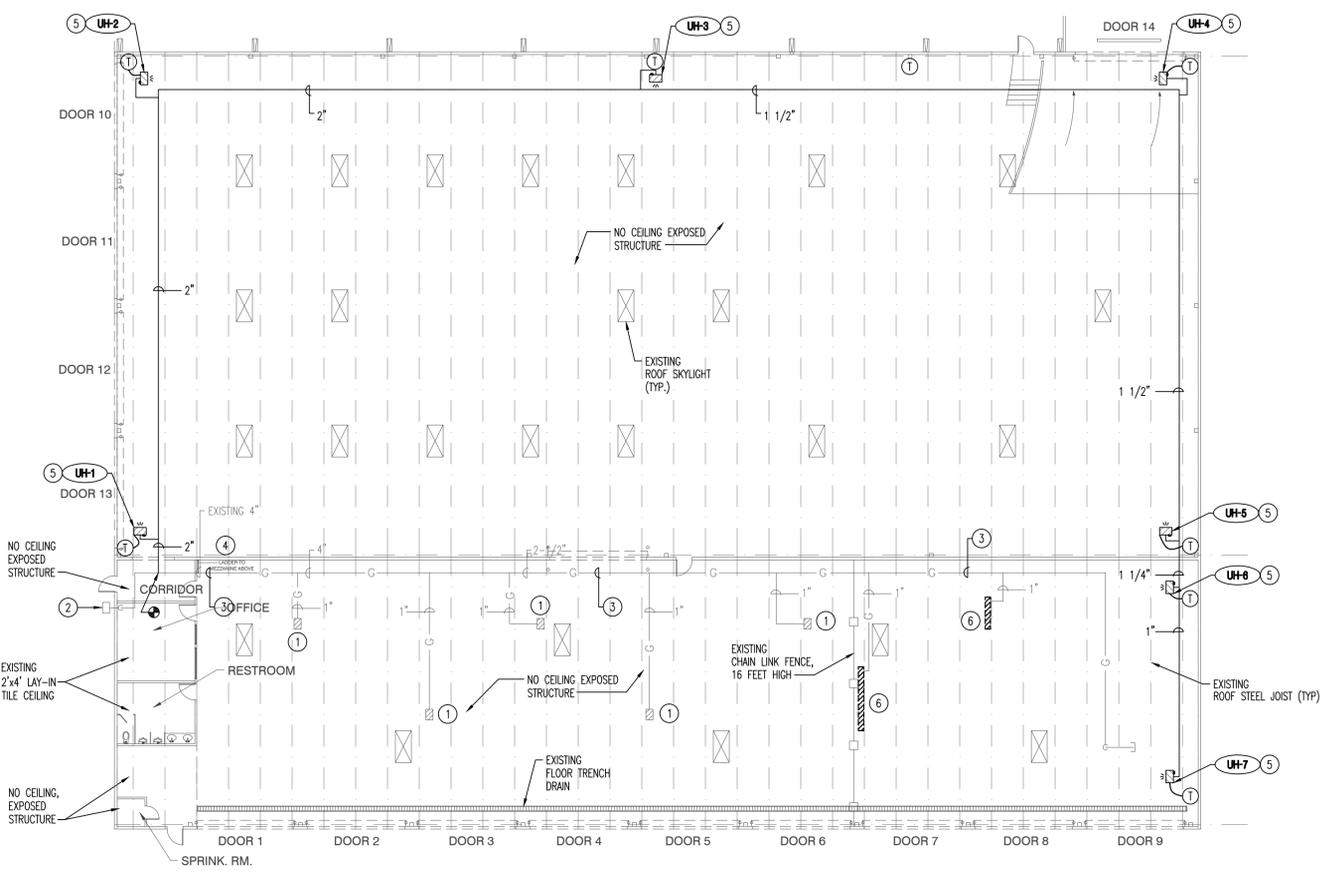
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 PROJECT # 1298

City of San Antonio
SAFD Warehouse
Fire Protection Systems
 500 Burnet, San Antonio, TX

MECHANICAL PLAN - NEW WORK, GAS PIPING DIAGRAM AND SCHEDULES

PROJECT: 1298
 DRAWN: AAI
 CHECKED: DTA
 DATE: 06-24-2013

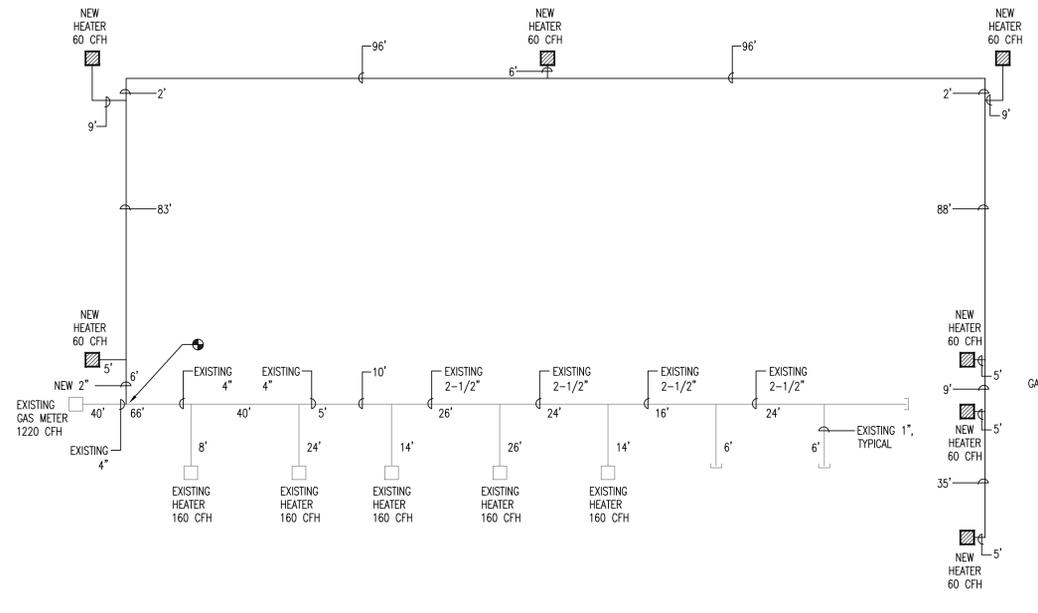
SHEET
M1.1R



PLAN NORTH
MECHANICAL PLAN - NEW WORK
 SCALE: 1/16" = 1'-0"

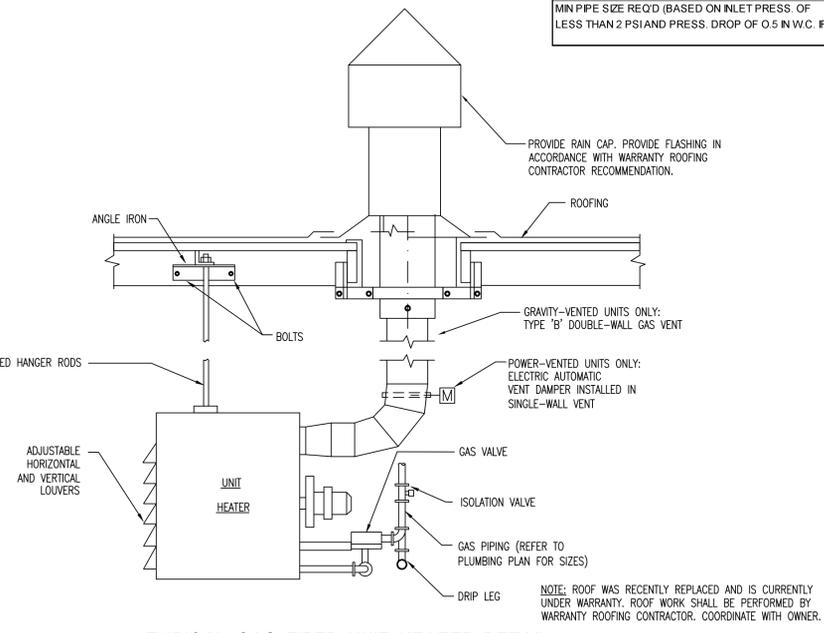
KEYED NOTES: (APPLIES TO THIS SHEET)

- EXISTING SUSPENDED RADIANT HEATER TO REMAIN.
- EXISTING GAS METER ASSEMBLY TO REMAIN.
- EXISTING GAS PIPING TO REMAIN.
- NEW GAS PIPING.
- NEW GAS UNIT HEATER, 1" GAS CONNECTION.
- EXISTING SUSPENDED RADIANT HEATER TO BE REMOVED. REMOVED ASSOCIATED CONTROLS AND CAP GAS PIPING.



2 GAS PIPING DIAGRAM
 NO SCALE

GAS PIPING SIZE SCHEDULE	
TOTAL GAS DEMAND	1220 CFH
TOTAL LENGTH FROM METER TO FURTHEST HEATER	462 FT
MIN PIPE SIZE REQ'D (BASED ON INLET PRESS. OF LESS THAN 2 PSID AND PRESS. DROP OF 0.5 IN W.C. IFCG 2012, TABLE 4.02.4 (2))	3"
(EXISTING PIPE SIZE IS 4", EXISTING PIPE SIZE IS SUFFICIENT)	



3 TYPICAL GAS FIRED UNIT HEATER DETAIL
 NO SCALE

UNIT HEATER SCHEDULE	
MARK	UH-1, 2, 3, 4, 5, 6, 7
SERVES	VEHICLE STORAGE AREA
TYPE	GAS FIRED UNIT HEATER
FUEL TYPE	NATURAL GAS
INPUT (BTU/HR)	60,000
TYPE DISCHARGE	FAN
MIN/MAX GAS INLET PRESSURE (IN W.C.)	5/14
WEIGHT (LBS)	100
VOL/TPH	120/1
MOTOR (HP)	1/12
MANUFACTURER	RE-VERBER-RAY
MODEL	UH-60
NOTES	1-6

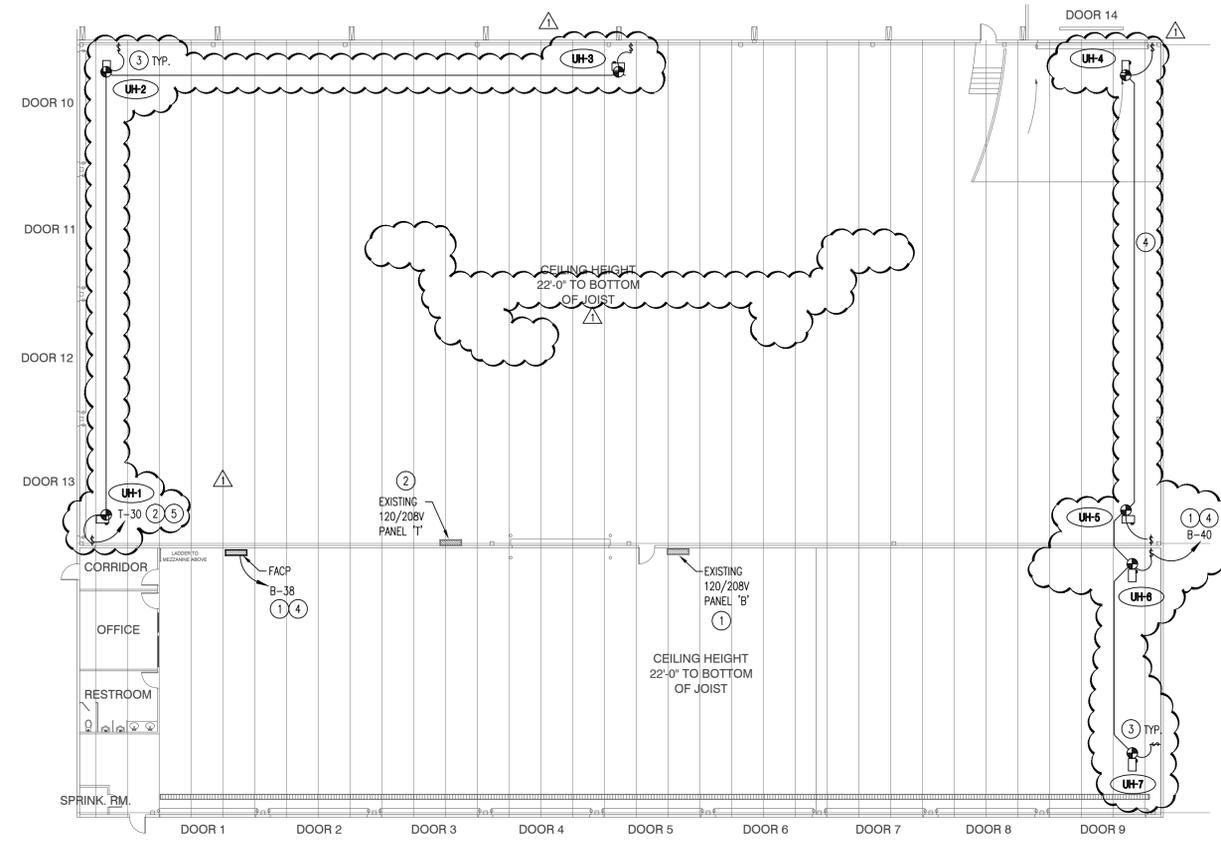
- NOTES:
- MOUNT AT BOTTOM OF EXISTING ROOF JOISTS (APPROX. 22'-0" A.F.F.)
 - PROVIDE HONEYWELL THERMOSTAT.
 - PROVIDE 24V CONTROLS AND CONTROLS STEP-DOWN TRANSFORMER.
 - PROVIDE REQUIRED CLEARANCES FROM COMBUSTIBLES.
 - PROVIDE 4" CONCENTRIC VENT KIT EQUAL TO A CVK-4.
 - DIRECT SPARK IGNITION.

GENERAL POWER NOTES: (APPLIES TO ALL ELECTRICAL SHEETS)

- ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND AUTHORITIES HAVING JURISDICTION.
- ALL WALL MOUNTED RECEPTACLES TO BE LOCATED 18" A.F.F. TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.
- SINGLE HOME RUNS ARE SHOWN FOR CIRCUIT IDENTIFICATION ONLY. CONTRACTOR MAY GROUP A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN RACEWAY, UNLESS NOTED OTHERWISE. TYPICAL FOR ALL ELECTRICAL FLOOR PLANS.
- MULTI-WIRED (SHARED NEUTRAL) BRANCH CIRCUITS SHALL NOT BE INSTALLED. ALL 120- & 277- VOLT BRANCH CIRCUITS SHALL HAVE A DEDICATED INDIVIDUAL NEUTRAL CONDUCTOR.
- PROVIDE U.L. LISTED FIRE STOP SYSTEMS AT ALL PENETRATIONS THROUGH WALLS.
- ALL SWITCHES AND RECEPTACLES SHALL BE U.L. LISTED AND SHALL BE SPECIFICATION GRADE.
- ALL FEEDER AND BRANCH CIRCUIT WIRING SHALL BE COPPER.
- ALL JUNCTION BOX COVERS WILL BE MARKED USING "SHARPIE" OR "MARKSALOT" INDICATING THE PANEL AND CIRCUIT #'S CONTAINED WITHIN THE JUNCTION BOX.
- ALL SWITCH AND RECEPTACLE COVER PLATES WILL BE MARKED TO INDICATE PANEL AND CIRCUIT #'S USING APPROVED LABEL MAKER.
- IN ALL CASES VOLTAGE DROP TO LAST OUTLET MUST NOT EXCEED 3%.
- FLEXIBLE METAL CONDUIT (FMC) CAN BE USED ONLY FOR FINAL CONNECTIONS TO LIGHT FIXTURES. RUNS LONGER THAN 6' WILL NOT BE ALLOWED.
- LIQUIDTIGHT FLEXIBLE CONDUIT (LFMC) SHALL BE USED FOR CONNECTIONS TO EQUIPMENT AND MOTORS.
- ALL DATA CONDUITS, SLEEVES AND STUBS SHALL BE TERMINATED WITH PLASTIC BUSHINGS.
- COORDINATE LOCATION OF ALL DISCONNECT SWITCHES TO ENSURE THAT ALL NEC MINIMUM WORKING CLEARANCES ARE MAINTAINED.



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 PROJECT # 1298



PLAN NORTH
1 POWER FLOOR PLAN
 SCALE: 1/16" = 1'-0"

KEYED NOTES: (APPLIES TO THIS SHEETS)

- FURNISH & INSTALL 20A, 120V, 1-POLE SQUARE D CIRCUIT BREAKER IN EXISTING PANELBOARD 'B' FOR FIRE ALARM CONTROL PANEL 120V CIRCUIT AND 20A, 120V, 1-POLE CIRCUIT BREAKER FOR GAS FIRED HEATER POWER (TOTAL LOAD = 1,056 VA) UPDATE PANELBOARD SCHEDULE TO INDICATE 'FACP' AND HEATERS AND FURNISH & INSTALL CIRCUIT BREAKER 'LOCK-ON' DEVICE FOR FACP CIRCUIT. ELECTRICAL CONTRACTOR TO MAKE CERTAIN NOT TO EXCEED PANEL BOARD'S 80% MAXIMUM AMPACITY.
- FURNISH & INSTALL 30A, 120V, 1-POLE CIRCUIT BREAKER IN EXISTING PANELBOARD 'T' FOR GAS FIRED HEATER POWER (TOTAL LOAD = 2,640 VA). UPDATE PANELBOARD SCHEDULE. ELECTRICAL CONTRACTOR TO MAKE CERTAIN NOT TO EXCEED PANEL BOARD'S 80% MAXIMUM AMPACITY.
- FURNISH & INSTALL 20A, 120V TOGGLE SWITCH AT HEATER LOCATION FOR SAFETY DISCONNECT.
- 20A, 120V CIRCUIT SHALL BE (2) #12 AWG CU & #12 GROUND IN 3/4" TYPE EMT CONDUIT.
- UNIT HEATER, 120V CIRCUITS SHALL BE (2) #10 AWG CU & #10 GROUND IN 3/4" TYPE EMT CONDUIT.

EXISTING PANEL T

PROJECT: SAFD WAREHOUSE ENCLOSURE NEMA 1 CODES: 0=RCPT 1=EQPT 2=LTG 3=A/C 4=HTG 5=LGST MTR 6=SUBPANEL
 PROJECT #: 1298 VOLTAGE: 208/120V, 3Ph., 4W BREAKER MTG.
 LOCATION: NORTH BAY BUSSING: 100A ACCESSORIES: GND BUS
 MOUNTING: SURFACE MAINS: 100A MLO INTERRUPT RATING: 10,000 AIC

CODE	BRKR	CIRCUIT USE	CKT	LOAD	A	LOAD	CKT	CIRCUIT USE	BRKR	CODE		
20/2		EXISTING	1		A	2		EXISTING	20/2			
			3		B	4						
20/2		EXISTING	5		C	6		EXISTING	20/2			
			7		A	8						
20/2		EXISTING	9		B	10		EXISTING	20/2			
			11		C	12						
60/2		EXISTING	13		A	14		EXISTING	20/1			
			15		B	16		EXISTING	20/2			
20/3		EXISTING	17		C	18						
			19		A	20		EXISTING	20/2			
			21		B	22						
20/2		EXISTING	23		C	24		EXISTING	20/1			
			25		A	26		EXISTING	20/2			
20/2		EXISTING	27		B	28						
			29		C	30						
		SUBPNL VA	LTG VA	RCPT VA	EQPT VA	HVAC VA	MTR VA	1,440	30	UNIT HEATERS - NORTH BAY (NOTE 1)	20/1	4
PHASE A	-	-	-	-	-	-	-	-	-	-	-	-
PHASE B	-	-	-	-	-	-	-	-	-	-	-	-
PHASE C	-	-	-	-	-	-	-	1,440	12	1,440	12	
TOTAL	-	-	-	-	-	-	-	1,440	N/A	1,440	N/A	

NOTES:
 1. FURNISH & INSTALL CIRCUIT BREAKER IN EXISTING SPACE FOR UNIT HEATERS. PROVIDE CIRCUIT BREAKER TO MATCH EXISTING
 BOLD TEXT IN SCHEDULE INDICATES CHANGES

EXISTING PANEL B

PROJECT: SAFD WAREHOUSE ENCLOSURE NEMA 1 CODES: 0=RCPT 1=EQPT 2=LTG 3=A/C 4=HTG 5=LGST MTR 6=SUBPANEL
 PROJECT #: 1298 VOLTAGE: 208/120V, 3Ph., 4W BREAKER MTG.
 LOCATION: SOUTH BAY BUSSING: 225A ACCESSORIES: GND BUS
 MOUNTING: SURFACE MAINS: 225A MLO INTERRUPT RATING: 10,000 AIC

CODE	BRKR	CIRCUIT USE	CKT	LOAD	A	LOAD	CKT	CIRCUIT USE	BRKR	CODE		
20/3		EXISTING	1		A	2		EXISTING	90/3			
			3		B	4						
			5		C	6						
20/3		EXISTING	7		A	8		EXISTING	20/2			
			9		B	10						
			11		C	12		EXISTING	20/2			
50/3		EXISTING	13		A	14		EXISTING	50/2			
			15		B	16		EXISTING	50/2			
			17		C	18						
50/3		EXISTING	19		A	20		EXISTING	20/1			
			21		B	22		EXISTING	30/1			
			23		C	24		EXISTING	20/1			
50/3		EXISTING	25		A	26		EXISTING	20/1			
			27		B	28		EXISTING	100/3			
			29		C	30						
50/3		EXISTING	31		A	32						
			33		B	34		EXISTING	20/1			
			35		C	36		EXISTING	20/1			
100/3		EXISTING	37		A	250		38	FACP (NOTE 1.2)	20/1	1	
			39		B	1,920		40	UNIT HEATERS - SOUTH BAY (NOTE 1)	20/1	4	
			41		C	42						
		SUBPNL VA	LTG VA	RCPT VA	EQPT VA	HVAC VA	MTR VA	250	CONN VA	2	250	2
PHASE A	-	-	-	-	-	-	-	250	-	-	250	2
PHASE B	-	-	-	-	-	-	-	1,920	-	16	1,920	16
PHASE C	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	2,170	N/A	2,170	N/A	

NOTES:
 1. FURNISH & INSTALL CIRCUIT BREAKER IN EXISTING SPACE. PROVIDE CIRCUIT BREAKER TO MATCH EXISTING PANELBOARD.
 2. PROVIDE CIRCUIT BREAKER 'LOCK-ON' DEVICE FOR FIRE ALARM CONTROL PANEL CIRCUIT BREAKER.
 BOLD TEXT IN SCHEDULE INDICATES CHANGES

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