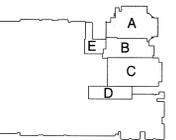




GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



KEY PLAN

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9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
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Phone 317.580.5777 Fax 317.580.5778

PROJECT 06-612
DATE 03/19/07
COORDINATED BY MEW
DRAWN BY MEW
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8-17-10 AS-BUILT - GREINER BROTHERS INC.

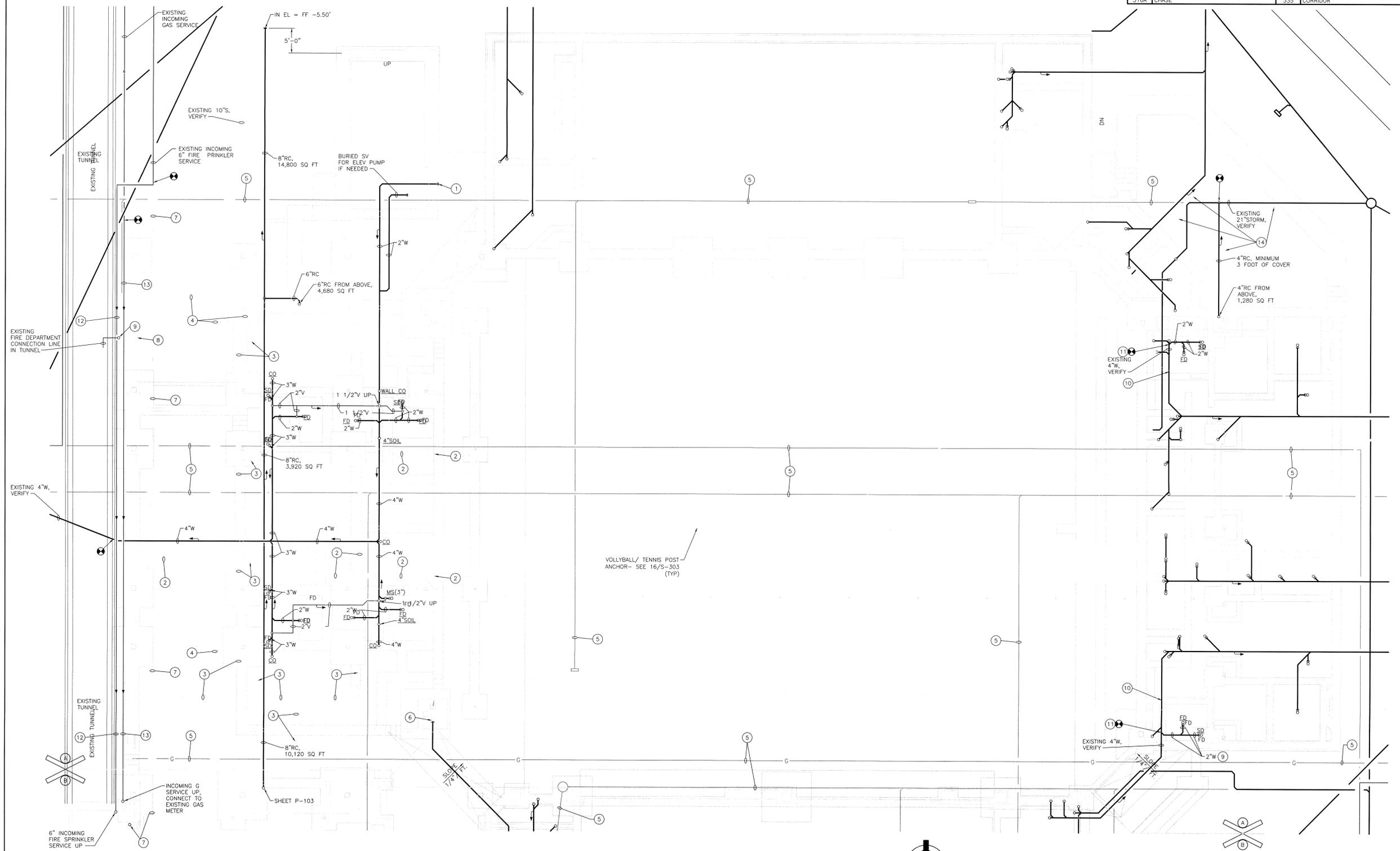
DRAWING UNIT "A"
PLUMBING FOUNDATION PLAN
PROJECT LAWRENCE CENTRAL HIGH SCHOOL

GIBRALTAR DESIGN SHEET
A P-101

ROOM NAME SCHEDULE		ROOM NAME SCHEDULE	
NO	NAME	NO	NAME
1	STAIR	317	OFFICE
2	STAIR	317A	TOILET
3	STAIR	317B	SHOWER
301	ATHLETIC DIRECTOR	318	WOMEN
302	CORRIDOR	319	MEN
303	CUSTODIAN & SOUND	320	VESTIBULE
304	GIRLS LOCKERS	320A	ALCOVE
304A	TOILET	321	STORAGE
304B	SHOWER	321A	NET AREA
304C	DRYING	322	WRESTLING
305	OFFICE	322A	STORAGE
306	CORRIDOR	323	STORAGE
307	GYMNASIUM	324	STORAGE
308	LOBBY	325	ELEVATOR
309	OFFICE	325A	ELEVATOR EQUIPMENT
309A	TOILET	326	LOBBY
309B	SHOWER	326A	VESTIBULE
310	MUD ROOM	327	OFFICE
311	PE LOCKER	328	BOYS LOCKER
311A	TOILET	328A	TOILET
311B	SHOWER	328B	SHOWER
311C	DRY	328C	DRYING
312	CUST	329	OFFICIALS
313	CORRIDOR	329A	TOILET
314	CUST	329B	SHOWER
315	PE LOCKER	330	ASSISTANT ATHLETIC DIRECTOR
315A	TOILET	331	RECEPTION
315B	SHOWER	332	STORAGE
315C	DRY	333	WAITING
316	MUD ROOM	334	VESTIBULE
316A	CHASE	335	CORRIDOR

- PLAN NOTES:**
- STUB AND CAP 2"W INTO ELEVATOR SHAFT FOR EMERGENCY SUMP PUMP CONNECTION.
 - REMOVE EXISTING W PIPE.
 - REMOVE EXISTING CONDENSATE PIPE.
 - REMOVE EXISTING STORM PIPE.
 - PREVIOUSLY ABANDONED OR REMOVED PIPE, VERIFY, REMOVE ANY PART THAT INTERFERES WITH NEW CONSTRUCTION.
 - REMOVE EXISTING RC FROM ABOVE AND CAP/PLUG BELOW FLOOR.
 - REMOVE EXISTING F PIPE, VERIFY LOCATION.
 - REMOVE EXISTING 4" F PIPE UP.
 - WHERE NEW PIPING IS RUN BELOW FINISHED FLOOR INSTALL PER DETAIL.
 - REMOVE EXISTING FLOOR DRAIN AND SHOWER DRAIN AND ASSOCIATED PIPING COMPLETE. CAP TERMINATED SANITARY BRANCHES.
 - CONNECT NEW 2" SANITARY PIPING TO EXISTING AT THIS POINT.
 - 6" INCOMING FIRE SPRINKLER SERVICE.
 - RELOCATE/REPLACE EXISTING INCOMING GAS SERVICE, VERIFY LOCATION OF EXISTING SERVICE.
 - VERIFY LOCATION OF UTILITIES IN THIS AREA FOR INSTALLATION OF CHILLER FOUNDATION, PROTECT PIPE AND LOCATE CHILLER FOUNDATION TO AVOID PIPE DAMAGE.

- GENERAL NOTES:**
- SEE SHEET P-001 FOR PLUMBING LEGEND, GENERAL NOTES AND SCHEDULES.
 - SEE SHEET P-501 FOR PLUMBING DETAILS.
 - SEE SHEET P-701 FOR PLUMBING DIAGRAMS AND ISOMETRICS.
 - PIPE SHOWN BUT NOT NOTED IS EXISTING AND SHALL REMAIN IN SERVICE.



UNIT "A" PLUMBING FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



GREINER BROTHERS INC.
PROJECT RECORD DOCUMENT
DATE: 8-17-10

Thu, 8/26/2010 10:11 am
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GENERAL NOTES:

- SEE SHEET P-001 FOR PLUMBING LEGEND, GENERAL NOTES AND SCHEDULES.
- SEE SHEET P-501 FOR PLUMBING DETAILS.
- SEE SHEET P-701 FOR PLUMBING DIAGRAMS AND ISOMETRICS.
- PIPING SHOWN BUT NOT NOTED IS EXISTING AND SHALL REMAIN IN SERVICE.

PLAN NOTES:

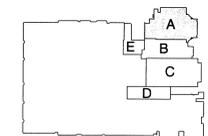
- 1/2"TW DROP TO P-10, TYPICAL SIX (6).
- 1/2"HW AND 1/2"CW DROP.
- 4"W DOWN AND 3"V RISE.
- 2"HW AND 2 1/2"CW DROP, 2"TW RISE, THERMOSTATIC MIXING VALVE #A1 AND RECESSED WALL CABINET, DO NOT SET WALL CABINET AS TO INTERFERE WITH GRAB BAR.
- 2"HW AND 2 1/2"CW DROP, 2"TW RISE, THERMOSTATIC MIXING VALVE #A2 AND RECESSED WALL CABINET, DO NOT SET WALL CABINET AS TO INTERFERE WITH GRAB BAR.
- RECONDITION EXISTING DF/SPRINKLER, PROVIDE NEW BUBBLER, SPRAYER, DRAIN STRAINER, SUPPLY STOP, P-TRAP, ETC. AND THOROUGHLY CLEAN FIXTURE CABINET.
- PROVIDE NEW CARRIER, ADJUST W, V, CW AND HW AS REQUIRED AND CONNECT TO NEW FIXTURE COMPLETE, TYPICAL WHERE REQUIRED.
- 8"RC FROM RD/OFD ABOVE.
- EXISTING 3/4"CW UP AND 2"W DOWN, VERIFY, CAP AND ABANDON 3/4"CW DROP.
- EXISTING FD AND 2"W, VERIFY.
- ELECTRONIC FLUSH VALVE LOCATION, BID AS AN ALTERNATE.
- DISCONNECT, REMOVE AND REPLACE EXISTING SC.
- ELECTRONIC FLUSH VALVE LOCATION FOR BOTH TOILET ROOMS, BID AS AN ALTERNATE.
- MOUNT BACKFLOW PREVENTER ABOVE SINK RIM AND RUN FUNNEL DRAIN TO SINK.
- RELOCATE/REINSTALL EXISTING LAVS AT THIS LOCATION COMPLETE, SEE PD101 PLAN NOTE 15 FOR EXISTING LAVS TO BE RELOCATED TO THIS LOCATION.

ROOM NAME SCHEDULE		ROOM NAME SCHEDULE	
NO	NAME	NO	NAME
1	STAIR	317	OFFICE
2	STAIR	317A	TOILET
3	STAIR	317B	SHOWER
301	ATHLETIC DIRECTOR	318	WOMEN
302	CORRIDOR	319	MEN
303	CUSTODIAN & SOUND	320	VESTIBULE
304	GIRLS LOCKERS	320A	ALCOVE
304A	TOILET	321	STORAGE
304B	SHOWER	321A	WET AREA
304C	DRYING	322	WRESTLING
305	OFFICE	322A	STORAGE
306	CORRIDOR	323	STORAGE
307	GYMNASIUM	324	STORAGE
308	LOBBY	325	ELEVATOR
309	OFFICE	325A	ELEVATOR EQUIPMENT
309A	TOILET	326	LOBBY
309B	SHOWER	326A	VESTIBULE
310	MUD ROOM	327	OFFICE
311	PE LOCKER	328	BOYS LOCKER
311A	TOILET	328A	TOILET
311B	SHOWER	328B	SHOWER
311C	DRY	328C	DRYING
312	CUST	329	OFFICIALS
313	CORRIDOR	329A	TOILET
314	CUST	329B	SHOWER
315	PE LOCKER	330	ASSISTANT ATHLETIC DIRECTOR
315A	TOILET	331	RECEPTION
315B	SHOWER	332	STORAGE
315C	DRY	333	WAITING
316	MUD ROOM	334	VESTIBULE
316A	CHASE	335	CORRIDOR



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PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP

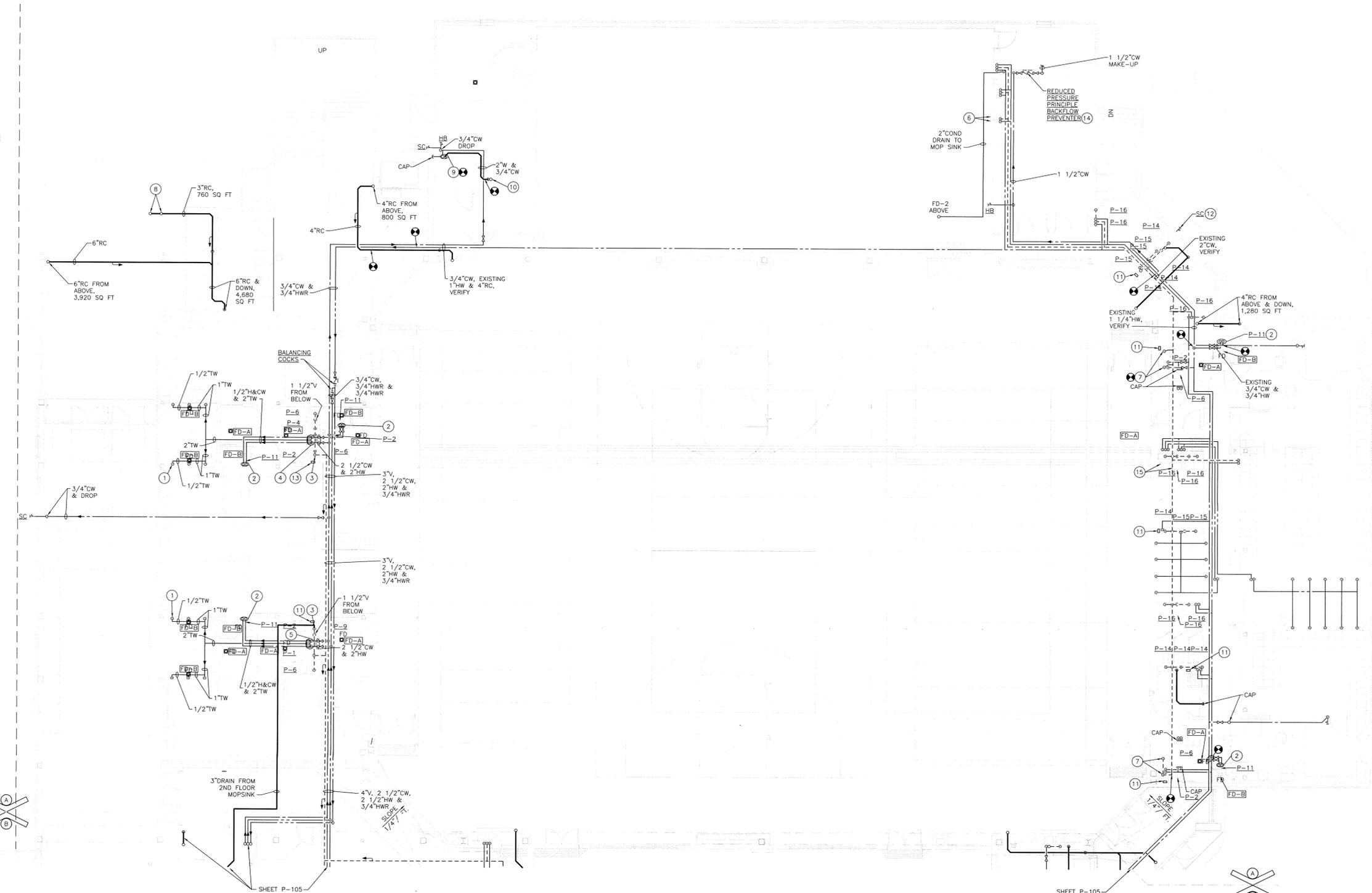


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PROJECT 06-612
DATE 03/19/07
COORDINATED BY MEW
DRAWN BY MEW
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MARK DATE ISSUED FOR
8-17-10 AS-BUILT - GREINER BROTHERS INC.

DRAWING UNIT "A" PLUMBING FIRST FLOOR PLAN
PROJECT LAWRENCE CENTRAL HIGH SCHOOL

GIBRALTAR DESIGN SHEET
A P-102



UNIT "A" PLUMBING FIRST FLOOR PLAN

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



GREINER BROTHERS INC.
PROJECT RECORD DOCUMENT
DATE: 8-17-10

Thu, 8/16/2010 10:30 am
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ROOM NAME SCHEDULE	
NO	NAME
2	STAIR
3	STAIR
323	ELEVATOR
394	BALCONY
395	MECHANICAL
396	MECHANICAL
397	BALCONY
397A	ALCOVE

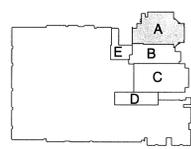
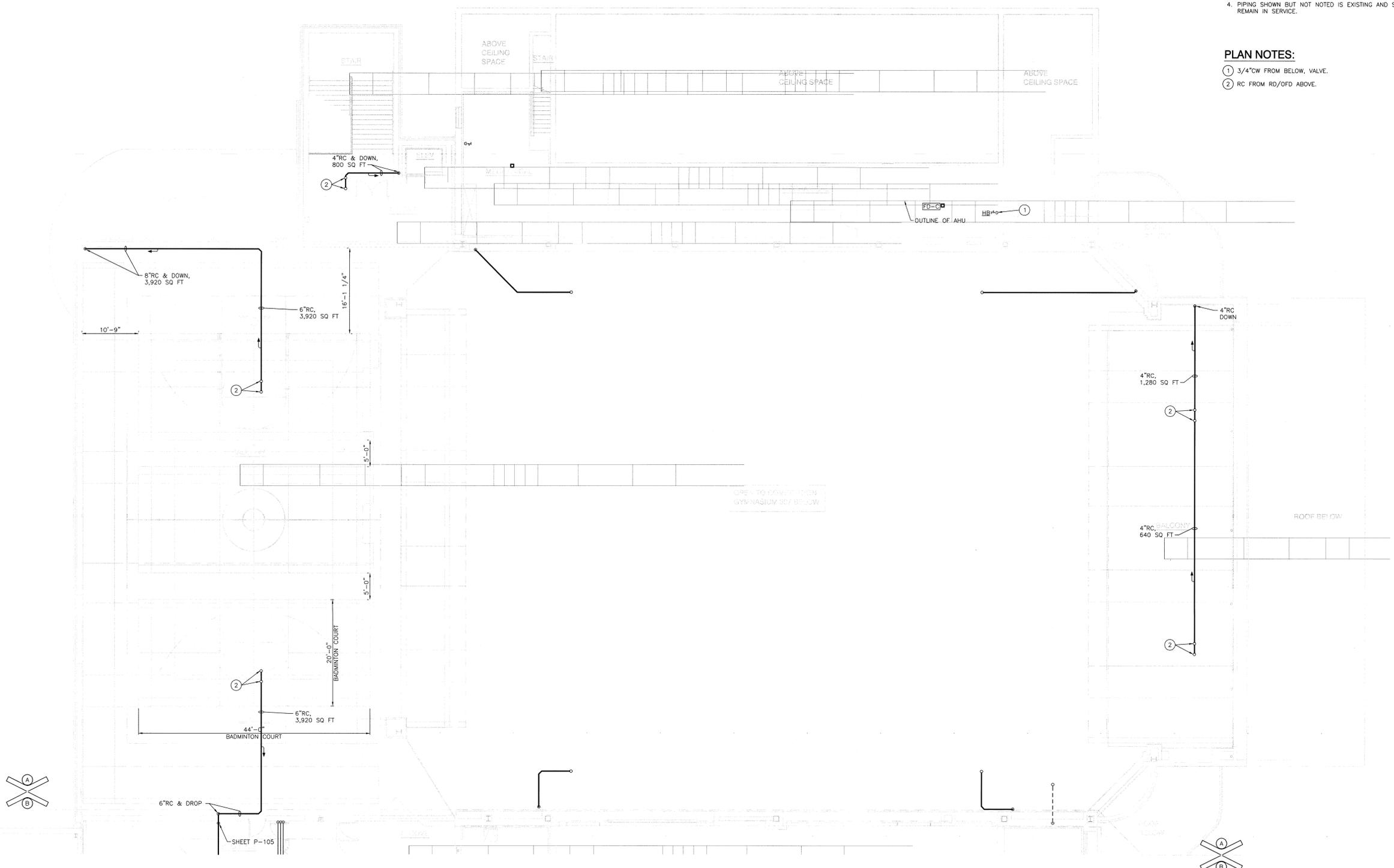


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PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP

- GENERAL NOTES:**
- SEE SHEET P-001 FOR PLUMBING LEGEND, GENERAL NOTES AND SCHEDULES.
 - SEE SHEET P-501 FOR PLUMBING DETAILS.
 - SEE SHEET P-701 FOR PLUMBING DIAGRAMS AND ISOMETRICS.
 - PIPING SHOWN BUT NOT NOTED IS EXISTING AND SHALL REMAIN IN SERVICE.

- PLAN NOTES:**
- 3/4" CW FROM BELOW, VALVE.
 - RC FROM RD/OFD ABOVE.



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PROJECT: 06-612
DATE: 03/19/07
COORDINATED BY: MBW
DRAWN BY: MBW
CHECKED BY: CAC

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REVISIONS

MARK	DATE	ISSUED FOR
8-17-10	AS-BUILT	GREINER BROTHERS INC.

DRAWING
UNIT "A"
PLUMBING
SECOND FLOOR
PLAN
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

© GIBALTAR DESIGN SHEET
A P-103

UNIT "A" PLUMBING SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



GREINER BROTHERS INC.
PROJECT RECORD DOCUMENT
DATE: 8-17-10

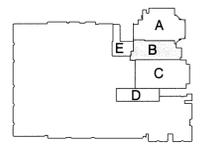
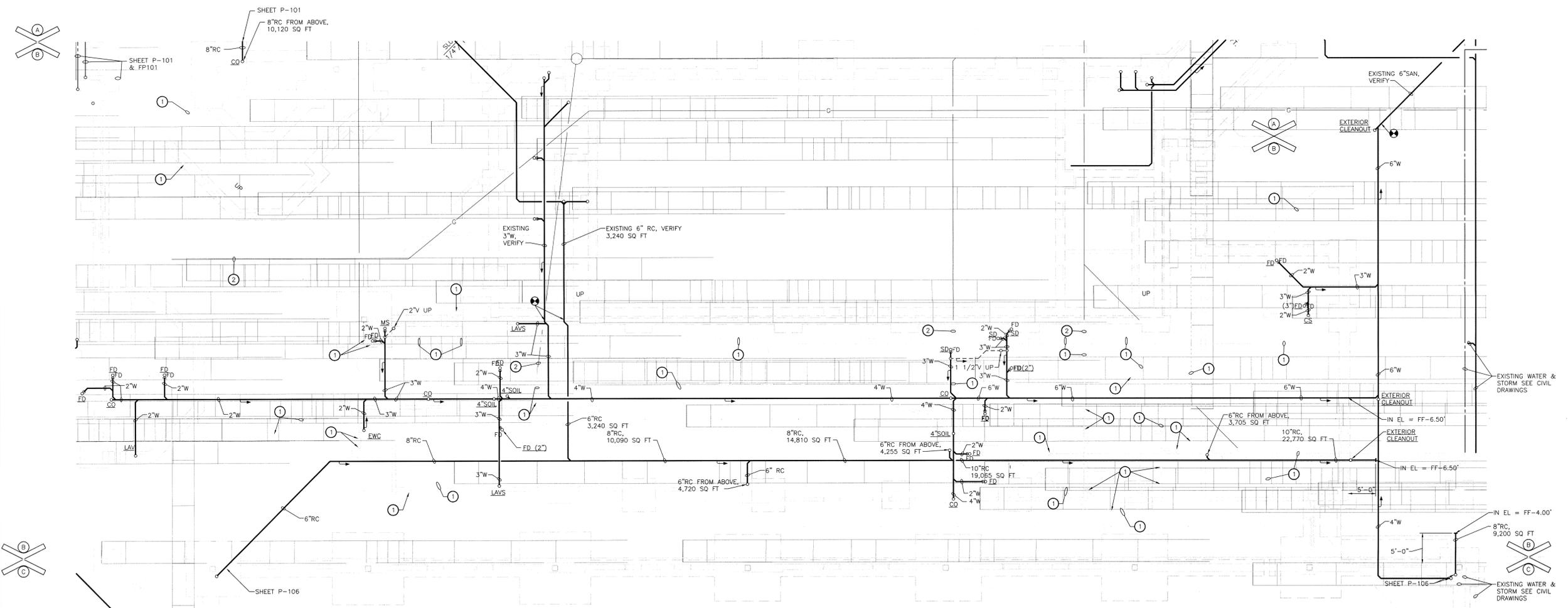
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ROOM NAME SCHEDULE	
NO	NAME
4	STAIR
5	STAIR
6	STAIR
336	STORAGE
337	CORRIDOR
338	CONCESSION
338A	PREPARATION
339	CORRIDOR
340	LOBBY
341	CUSTODIAN
342	STORAGE
343	STORAGE
344	ELECTRICAL
344A	ELECTRICAL
345	CUST
346	MEN
347	WOMEN
348	CORRIDOR
349	CLASSROOM
349A	STORAGE
350	CARDIO
351	OFFICE
351A	TOILET
351B	SHOWER
352	LOCKER ROOM
352A	TOILET
352B	SHOWER
353	WEIGHTS
354	ALCOVE
355	COACHES
355A	ELECTRICAL
356	OFFICE
357	CORRIDOR
358	CORRIDOR
359	TRAINER
359A	WHIRLPOOL
359B	STORAGE
360	OFFICE
361	VESTIBULE
376	STORAGE



PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
 RENOVATIONS, ADDITIONS AND RELATED WORK
 MSD OF LAWRENCE TOWNSHIP

- GENERAL NOTES:**
- SEE SHEET P-001 FOR PLUMBING LEGEND, GENERAL NOTES AND SCHEDULES.
 - SEE SHEET P-501 FOR PLUMBING DETAILS.
 - SEE SHEET P-701 FOR PLUMBING DIAGRAMS AND ISOMETRICS.
 - PIPING SHOWN BUT NOT NOTED ARE EXISTING AND SHOULD REMAIN IN SERVICE.
- PLAN NOTES:**
- REMOVE EXISTING PIPE, RISER, CB, ETC. WHERE SHOWN.
 - PREVIOUSLY ABANDONED OR REMOVED PIPE, VERIFY, REMOVE ANY PORTION THAT INTERFERES WITH NEW CONSTRUCTION.



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PROJECT 06-612
 DATE 03/19/07
 COORDINATED BY MEW
 DRAWN BY MEW
 CHECKED BY CAC

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UNIT "B" PLUMBING FOUNDATION PLAN
 SCALE: 1/8" = 1'-0"



GRENER BROTHERS INC.
 PROJECT RECORD DOCUMENT
 DATE: 8-17-10

GIBRALTAR DESIGN SHEET
B P-104

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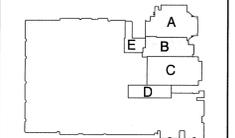
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PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP

ROOM NAME SCHEDULE	
NO	NAME
4	STAIR
5	STAIR
6	STAIR
336	STORAGE
337	CORRIDOR
338	CONCESSION
338A	PREPARATION
339	CORRIDOR
340	LOBBY
341	CUSTODIAN
342	STORAGE
343	STORAGE
344	ELECTRICAL
344A	ELECTRICAL
345	CUST
346	MEN
347	WOMEN
348	CORRIDOR
349	CLASSROOM
349A	STORAGE
350	CARDIO
351	OFFICE
351A	TOILET
351B	SHOWER
352	LOCKER ROOM
352A	TOILET
352B	SHOWER
353	WEIGHTS
354	ALCOVE
355	COACHES
355A	ELECTRICAL
356	OFFICE
357	CORRIDOR
358	CORRIDOR
359	TRAINER
359A	WHIRLPOOL
359B	STORAGE
360	OFFICE
361	VESTIBULE
376	STORAGE
376	STORAGE
376B	ALCOVE
378	STORAGE
399	MECHANICAL
400	MECHANICAL

- GENERAL NOTES:**
- SEE SHEET P-001 FOR PLUMBING LEGEND, GENERAL NOTES AND SCHEDULES.
 - SEE SHEET P-501 FOR PLUMBING DETAILS.
 - SEE SHEET P-701 FOR PLUMBING DIAGRAMS AND ISOMETRICS.
 - PIPING SHOWN BUT NOT NOTED IS EXISTING AND SHALL REMAIN IN SERVICE.

- PLAN NOTES:**
- ADJUST W, V, AND CW AS REQUIRED AND RAISE EWC'S AS REQUIRED TO ACCOMMODATE NEW FLOOR HEIGHT, 1 5/8" FIELD VERIFY.
 - 3/4"HW AND 3/4"CW DROP, 2"W DOWN, 1 1/2"V UP AND 3" THRU ROOF.
 - RC FROM RD/OFD ABOVE.
 - 1/2"TW DROP TO P-10, 1/2"CW AND 1/2"CW DROP TO P-11.
 - 1/2"TW DROP TO EACH P-10 (TYPICAL OF 5).
 - 2"V FROM BELOW.
 - 1 1/2"HW, 1 1/2"CW DROP TO 2"TW RISE FROM THERMOSTATIC MIXING VALVE. THERMOSTATIC MIXING VALVE SHALL BE EQUAL TO LAWLER #66-25, UNIT#3006, 13 GPM AT 10PSI DROP, PROVIDE RECESSED WALL CABINET AND PROVIDE INLET BALL VALVES IN CABINET.
 - 1 1/2"HW, 2 1/2"CW DROP, 4"W DOWN, 4"V UP THRU ROOF.
 - EXTEND 1/2"HW AND 1/2"CW FROM CHASE TO SHOWER.
 - 3/4"CW FROM BELOW. PROVIDE SERVICE VALVE AND HB.
 - 3/4"CW DROP, 2"W DOWN, 2"V RISER.
 - 1/2"HW AND 1/2"CW DROP, 1 1/2"V FROM BELOW.
 - 3/4"HW AND 3/4"CW DROP, 3"W DOWN AND 2"V RISER. EXTEND TO ALL LAVS.
 - 4"W DOWN, 4"V UP AND THRU ROOF.
 - CAP EXISTING CW AT 24" A.F.F. AND PROVIDE HB.
 - FLUSH VALVE TRANSFORMER LOCATION, BID AS AN ALTERNATE.
 - 2 1/2"CW DROP VALVE AND HEADER IN CHASES WITH WATER HAMMER ARRESTOR.
 - 1/2"HW AND 1/2"CW DROP, 2"W DOWN AND 1 1/2"V RISE.
 - PLACE SIGNAGE ON FIXTURE AND PLACE FIXTURE OUT OF SERVICE UNTIL UNDERGROUND UTILITIES IN UNIT "B" ARE COMPLETE. AFTER UTILITIES IN UNIT "B" ARE INSTALLED AND OPERATIONAL PLACE FIXTURE BACK INTO SERVICE.



KEY PLAN
GIBRALTAR DESIGN

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PROJECT
06-012
DATE
03/19/07
COORDINATED BY
MBW
DRAWN BY
MBW
CHECKED BY
CAC

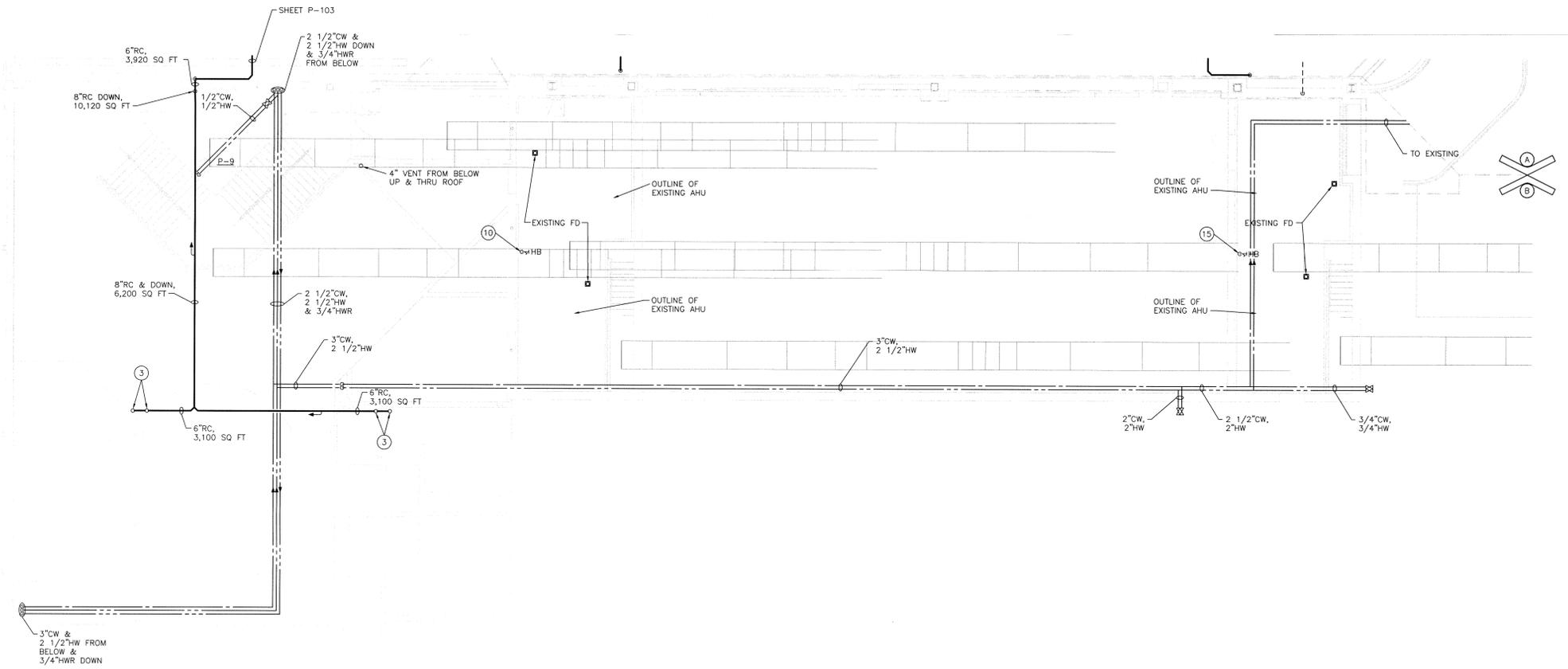
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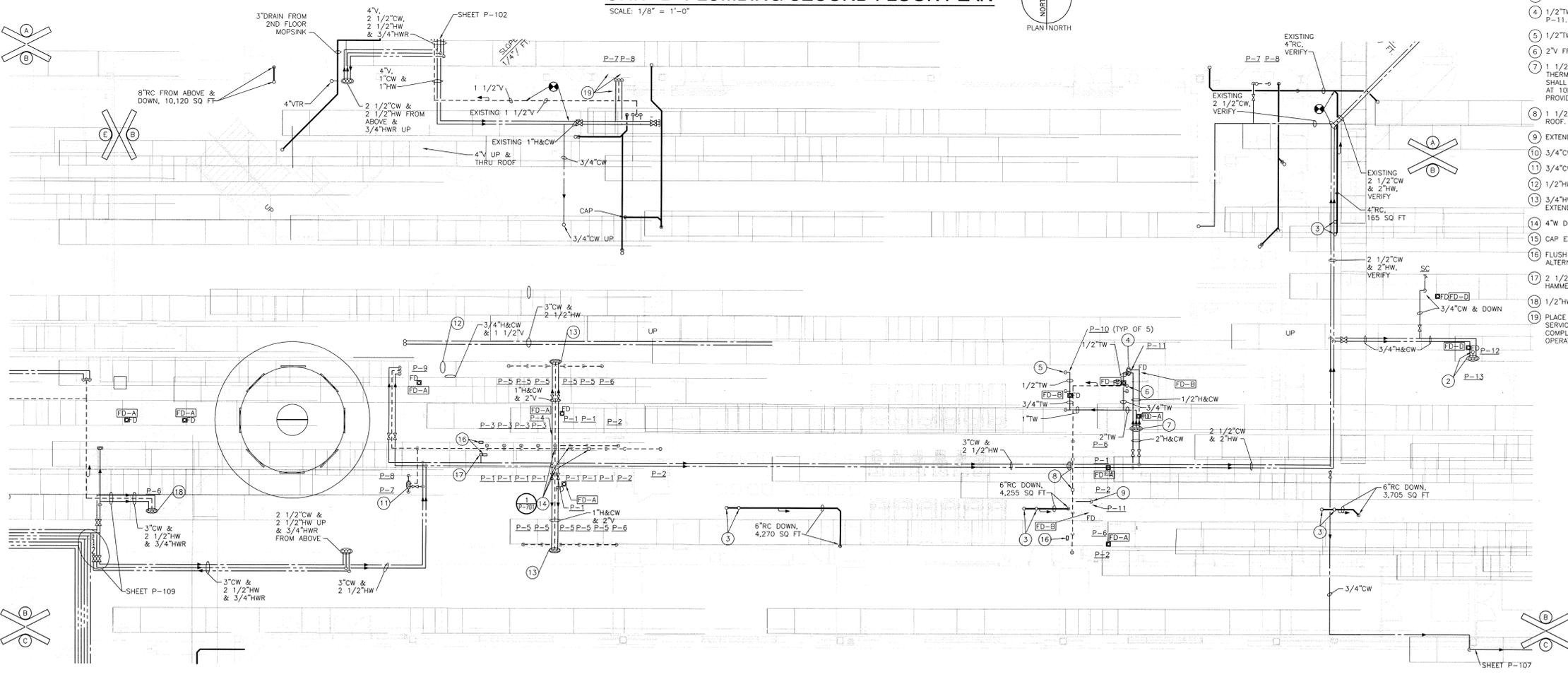
DRAWING
UNIT "B" PLUMBING FIRST FLOOR AND SECOND FLOOR PLAN
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

GREINER BROTHERS INC.
PROJECT RECORD DOCUMENT
DATE: 8-17-10

GIBRALTAR DESIGN SHEET
B P-105



UNIT "B" PLUMBING SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



UNIT "B" PLUMBING FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



Thu, 8/26/2010 10:48 am
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ROOM NAME SCHEDULE

NO	NAME
362	STORAGE
363	MULTI-PURPOSE GYMNASIUM
364	CORRIDOR

GENERAL NOTES:

- SEE SHEET P-001 FOR PLUMBING LEGEND, GENERAL NOTES AND SCHEDULES.
- SEE SHEET P-501 FOR PLUMBING DETAILS.
- SEE SHEET P-701 FOR PLUMBING DIAGRAMS AND ISOMETRICS.
- PIPING SHOWN BUT NOT NOTED IS EXISTING AND SHALL REMAIN IN SERVICE.
- SEE CIVIL SITE UTILITY DRAWINGS FOR CONTINUATION.

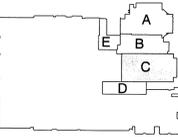
PLAN NOTES:

- REMOVE EXISTING PIPE AND RISERS COMPLETE.
- SEE CIVIL SITE UTILITY DRAWINGS.



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LAWRENCE CENTRAL HIGH SCHOOL
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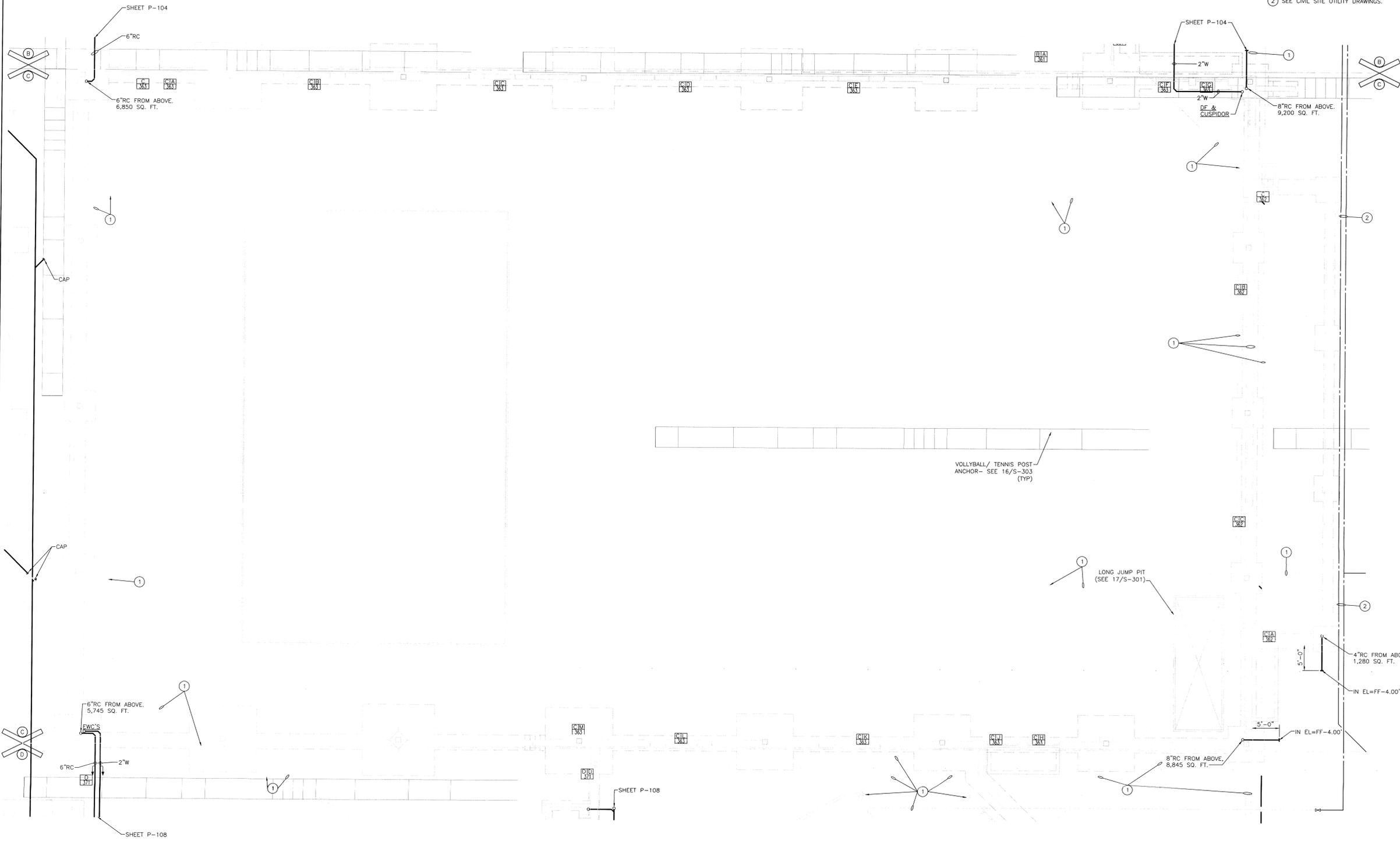
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06-612
DATE
03/19/07
COORDINATED BY
MEW
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MEW
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REVISIONS
MARK DATE ISSUED FOR
8-17-10 AS-BUILT - GREINER BROTHERS INC.

DRAWING
UNIT "C"
PLUMBING FOUNDATION PLAN
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

© GIBRALTAR DESIGN SHEET
C P-106



UNIT "C" PLUMBING FOUNDATION PLAN

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



GREINER BROTHERS INC.
PROJECT RECORD DOCUMENT
DATE: 8-17-10

Thu, 8/26/2010 10:51 am
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ROOM NAME SCHEDULE	
NO	NAME
362	STORAGE
363	MULTI-PURPOSE GYMNASIUM
364	CORRIDOR



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DESIGN
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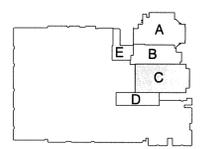
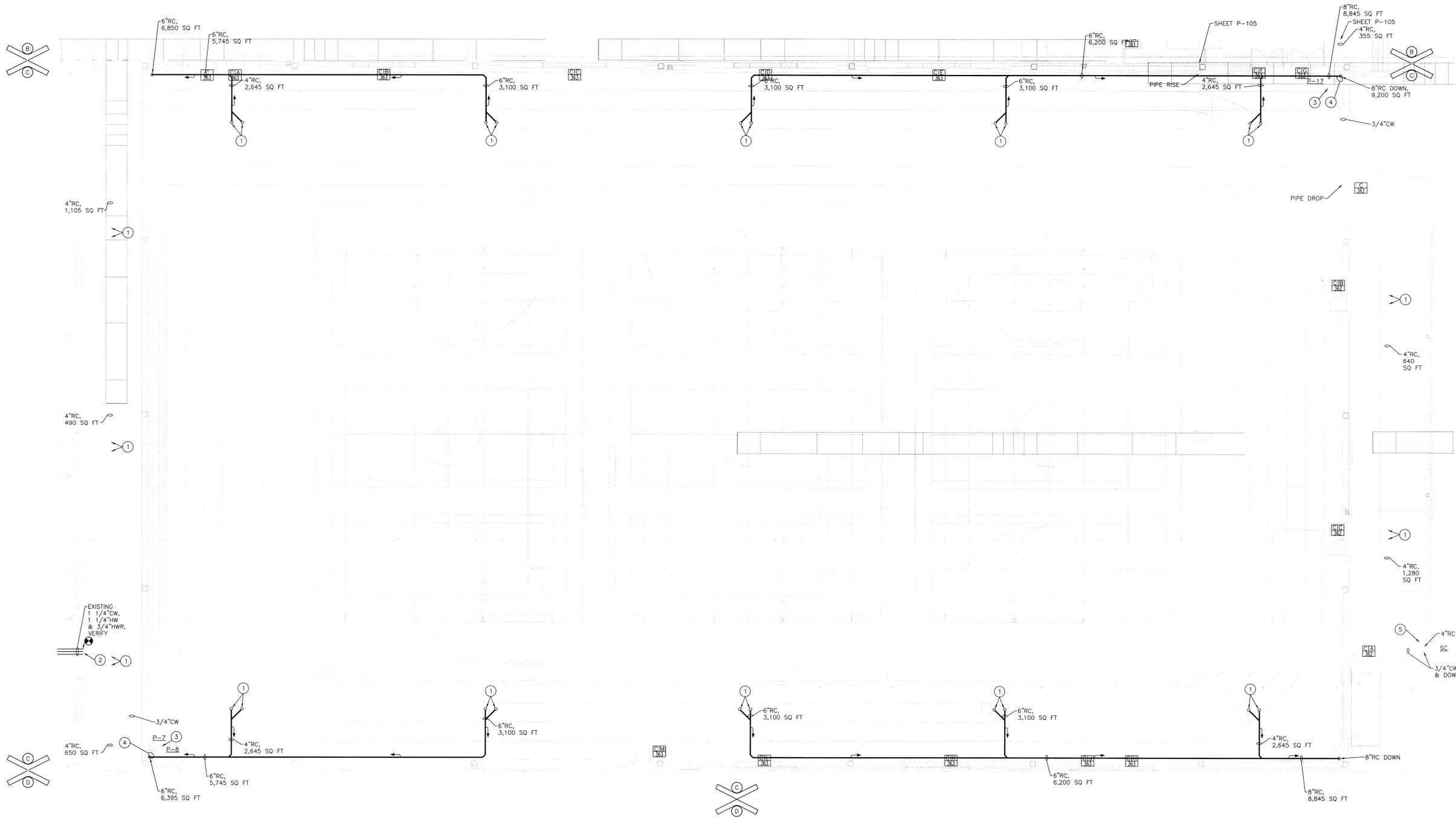
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP

GENERAL NOTES:

- SEE SHEET P-001 FOR PLUMBING LEGEND, GENERAL NOTES AND SCHEDULES.
- SEE SHEET P-501 FOR PLUMBING DETAILS.
- SEE SHEET P-701 FOR PLUMBING DIAGRAMS AND ISOMETRICS.

PLAN NOTES:

- RC FROM RD/OFD ABOVE.
- PROVIDE 3/4"HWR AND CONNECT EXISTING HW TO EXISTING HWR.
- 1 1/2"V UP AND 3" THRU ROOF.
- 1/2"CW DROP, 2"W DOWN AND 1 1/2"V RISE.
- WOODFORD MODEL B26 CHROME PLATED BOX HYDRANT AT 12" AFF.



KEY PLAN

GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
Homepage: www.GibraltarDesign.com
Email: info@GibraltarDesign.com
Phone: 317.580.5777 - Fax: 317.580.5778

PROJECT: 06-612
DATE: 03/19/07
COORDINATED BY: MBW
DRAWN BY: MBW
CHECKED BY: CAC

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MARK	DATE	ISSUED FOR
8-17-10	AS-BUILT	GREINER BROTHERS INC.

DRAWING
**UNIT "C"
PLUMBING
FIRST FLOOR
PLAN**
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

GIBRALTAR DESIGN SHEET
C P-107

UNIT "C" PLUMBING FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



GREINER BROTHERS INC.
PROJECT RECORD DOCUMENT
DATE: 8-17-10

Thu, 8/26/2010 10:35 am
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GENERAL NOTES:

- SEE SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL MECHANICAL NOTES.
- SEE SHEETS M-501 AND M-502 FOR MECHANICAL DETAILS.
- SEE SHEETS M-601 AND M-602 FOR MECHANICAL EQUIPMENT SCHEDULES.
- SEE SHEETS M-801 AND M-802 FOR MECHANICAL TEMPERATURE CONTROL DIAGRAMS.
- SEE SHEETS MD101 THROUGH MD106 FOR DEMOLITION DRAWINGS.

PLAN NOTES:

- 24"x12" EXHAUST GRILLE, 310 CFM.
- 6"x6" EXHAUST GRILLE, 60 CFM.
- 6"x6" EXHAUST GRILLE, 75 CFM.
- 24"x12" EXHAUST GRILLE, 240 CFM.
- 6"x6" EXHAUST GRILLE, 110 CFM.
- 24"x12" EXHAUST GRILLE, 290 CFM.
- 16"x10" EXHAUST DUCT UP. SEE SHEET M-102 FOR CONTINUATION.
- 20"x14" EXHAUST DUCT UP. SEE SHEET M-102 FOR CONTINUATION.
- 24"x12" RETURN AIR GRILL IN CEILING AND OPEN TO RETURN AIR PLENUM.
- 24"x24" RETURN AIR GRILL IN CEILING AND OPEN TO RETURN AIR PLENUM.
- SEE SHEET M-401 FOR CONTINUATION.
- 24"x12" TRANSFER AIR GRILLE. CONNECT TO 16"x8" (LINED) TRANSFER AIR ELBOW AND DUCT. STUB DUCT THRU WALL ABOVE FINISHED CEILING AS INDICATED.
- 12"x8" (LINED) TRANSFER AIR DUCT UP THRU WALL ABOVE CEILING.
- 2"S&R, 2 1/2"CH&CHR UP. SEE SHEET M-401 FOR CONTINUATION.
- 12"x8" SIDEWALL HEAVY DUTY TRANSFER AIR GRILLE. INSTALL GRILLE AT APPROXIMATELY 10'-6" ABOVE FINISHED FLOOR (GRILLE ON STORAGE 323 WALL). CONNECT SHEETMETAL SLEEVE TO GRILLE AND EXTEND THRU WALL TO ABOVE FINISHED CEILING OF WRESTLING 322.
- 12"x8" SIDEWALL HEAVY DUTY TRANSFER AIR GRILLE. INSTALL GRILLE AT APPROXIMATELY 10'-6" ABOVE FINISHED FLOOR (GRILLE ON STORAGE 324 WALL). CONNECT SHEETMETAL SLEEVE TO GRILLE AND EXTEND THRU WALL TO ABOVE FINISHED CEILING OF WRESTLING 322.
- 24"x24" EXHAUST DUCT UP THRU ROOF TO EXHAUST FAN EF-A1.
- 24"x12" EXHAUST GRILLE, 370 CFM.
- 24"x12" EXHAUST GRILLE, 310 CFM.
- 12"x6" EXHAUST GRILLE, 175 CFM.
- 24"x12" EXHAUST GRILLE, 500 CFM.
- STACK 24"x14" (ABOVE) AND 18"x8" (BELOW) EXHAUST DUCTS.
- 12"x12" EXHAUST DUCT UP THRU ROOF TO EXHAUST FAN EF-A2.
- O.A. INTAKE LOUVER BY THE G.C.
- 2 1/2"S&R, 8"CH&CHR SEE SHEET M-103 FOR CONTINUATION.
- TEMPERATURE CONTROL PANEL (AHU-A2).
- VARIABLE FREQUENCY DRIVE (AHU-A2).
- 1 1/2"S&R TO HEATING COIL AND RE-HEAT COIL.

SI.15

AD.04

SI.27

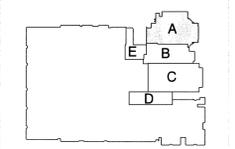
SI.15

ROOM NAME SCHEDULE		ROOM NAME SCHEDULE	
NO	NAME	NO	NAME
1	STAIR	317	OFFICE
2	STAIR	317A	TOILET
3	STAIR	317B	SHOWER
301	ATHLETIC DIRECTOR	318	WOMEN
302	CORRIDOR	319	MEN
303	CUSTODIAN & SOUND	320	VESTIBULE
304	GIRLS LOCKERS	320A	ALCOVE
304A	TOILET	321	STORAGE
304B	SHOWER	321A	WET AREA
304C	DRYING	322	WRESTLING
305	OFFICE	322A	STORAGE
306	CORRIDOR	323	STORAGE
307	GYMNASIUM	324	STORAGE
308	LOBBY	325	ELEVATOR
309	OFFICE	325A	ELEVATOR EQUIPMENT
309A	TOILET	326	LOBBY
309B	SHOWER	326A	VESTIBULE
310	MUD ROOM	327	OFFICE
311	PE LOCKER	328	BOYS LOCKER
311A	TOILET	328A	TOILET
311B	SHOWER	328B	SHOWER
311C	DRY	328C	DRYING
312	CUST	329	OFFICIALS
313	CORRIDOR	329A	TOILET
314	CUST	329B	SHOWER
315	PE LOCKER	330	ASSISTANT ATHLETIC DIRECTOR
315A	TOILET	331	RECEPTION
315B	SHOWER	332	STORAGE
315C	DRY	333	WAITING
316	MUD ROOM	334	VESTIBULE
316A	CHASE	335	CORRIDOR



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PROJECT
LAWRENCE
CENTRAL
HIGH
SCHOOL
RENOVATIONS, ADDITIONS
AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



KEY PLAN
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PROJECT
06-612
DATE
03/19/07
COORDINATED BY
RWN
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WAB
CHECKED BY
CAC

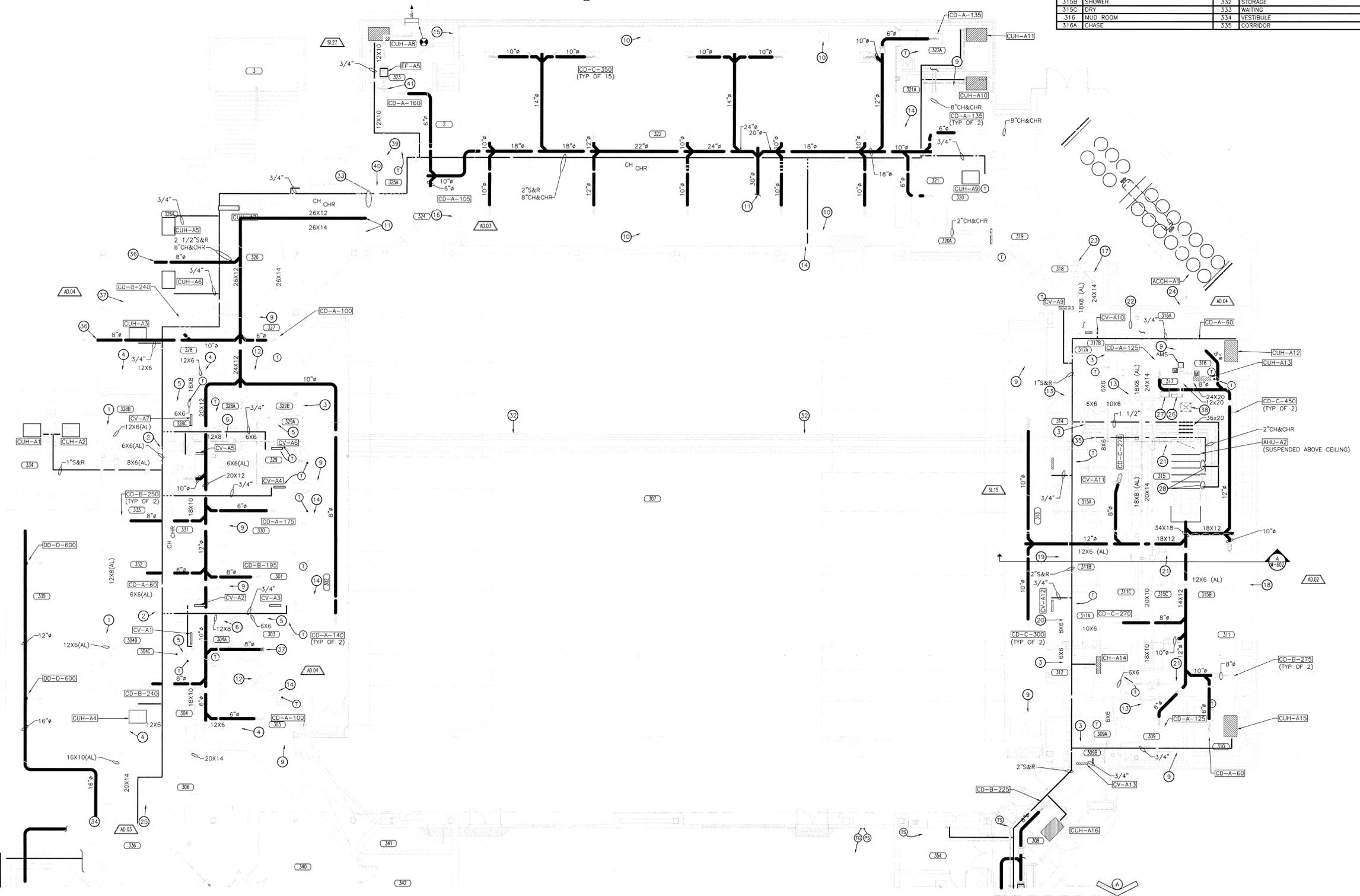
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REVISIONS
MARK DATE ISSUED FOR
AD.03 4/06/07 ADDENDUM #3
SI.27 07/15/08 SUPP. INSTR. #27
8-17-10 AS-BUILT - GREINER BROTHERS INC.

DRAWING
UNIT "A" MECHANICAL
FIRST FLOOR PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

GIBRALTAR DESIGN SHEET
A M-101



UNIT "A" MECHANICAL FIRST FLOOR PLAN

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



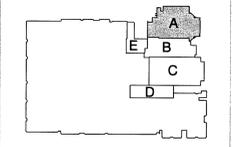
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ROOM NAME SCHEDULE	
NO	NAME
2	STAIR
3	STAIR
325	ELEVATOR
384	BALCONY
385	MECHANICAL
396	MECHANICAL
397	BALCONY
397A	ALCOVE



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PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



KEY PLAN
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PROJECT: 06-612
DATE: 03/19/07
COORDINATED BY: EWIN
DRAWN BY: WAB
CHECKED BY: CAC

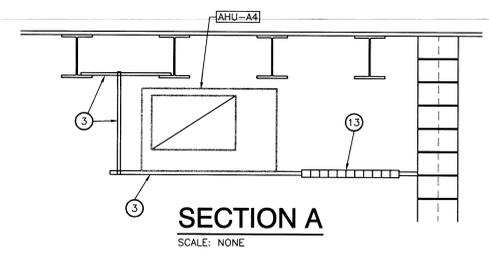
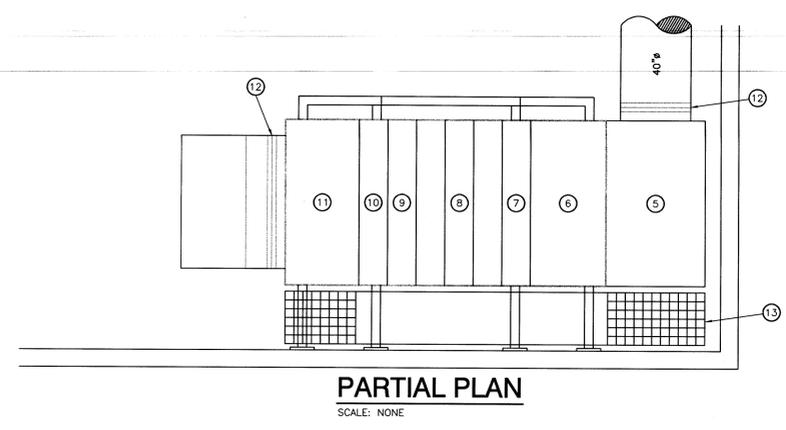
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DRAWING
UNIT "A" MECHANICAL SECOND FLOOR PLAN

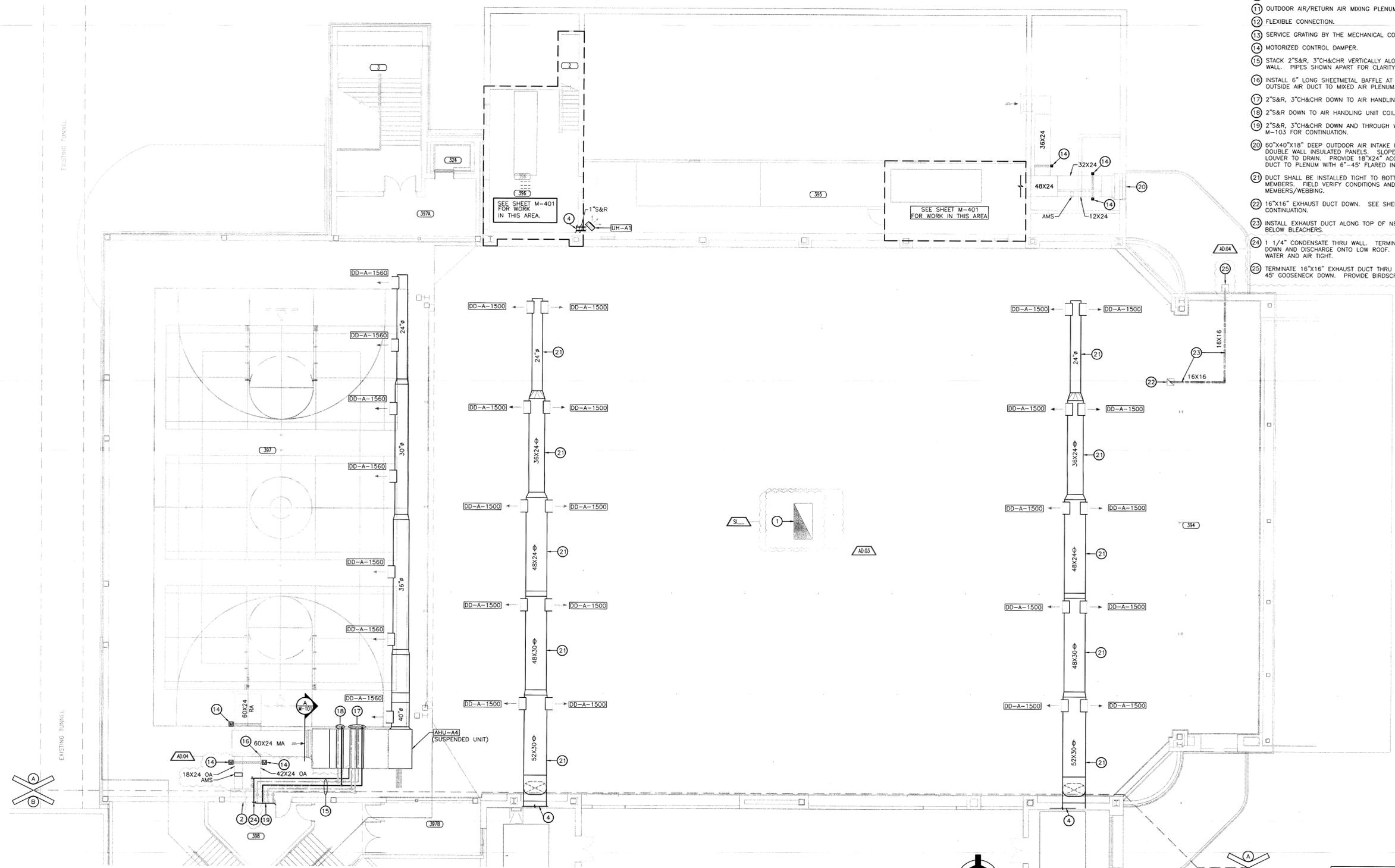
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

©GIBRALTAR DESIGN SHEET
A M-102



- GENERAL NOTES:**
- SEE SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL MECHANICAL NOTES.
 - SEE SHEETS M-501 AND M-502 FOR MECHANICAL DETAILS.
 - SEE SHEETS M-601 AND M-602 FOR MECHANICAL EQUIPMENT SCHEDULES.
 - SEE SHEETS M-801 AND M-802 FOR MECHANICAL TEMPERATURE CONTROL DIAGRAMS.
 - SEE SHEETS MD101 THROUGH MD106 FOR DEMOLITION DRAWINGS.

- PLAN NOTES:**
- 42"x83" RELIEF OPENING UP TO EXISTING LOUVER PENTHOUSE ON ROOF. SEE GYM RELIEF DETAIL (THIS SHEET) FOR DETAILS.
 - 78"x52"x18" DEEP OUTDOOR AIR INTAKE PLENUM WITH 1" DOUBLE WALL INSULATED PANELS. SLOPE BOTTOM 6" TOWARD LOUVER TO DRAIN. PROVIDE 18"x24" ACCESS DOOR. CONNECT DUCT TO PLENUM WITH 6"-45' FLARED INLET.
 - MECHANICAL CONTRACTOR TO PROVIDE STRUCTURAL SUPPORTS AS REQUIRED TO SUSPEND AIR HANDLING UNIT FROM BUILDING ROOF STRUCTURE ABOVE.
 - SEE SHEET M-401 FOR CONTINUATION.
 - SHEET METAL SUPPLY PLENUM.
 - FAN SECTION.
 - PREHEAT COIL.
 - COOLING COIL.
 - PREHEAT COIL.
 - CARTRIDGE FILTER SECTION.
 - OUTDOOR AIR/RETURN AIR MIXING PLENUM.
 - FLEXIBLE CONNECTION.
 - SERVICE GRATING BY THE MECHANICAL CONTRACTOR.
 - MOTORIZED CONTROL DAMPER.
 - STACK 2"S&R, 3"CH&CHR VERTICALLY ALONG INTERIOR FACE OF WALL. PIPES SHOWN APART FOR CLARITY.
 - INSTALL 6" LONG SHEETMETAL BAFFLE AT CONNECTION OF OUTSIDE AIR DUCT TO MIXED AIR PLENUM.
 - 2"S&R, 3"CH&CHR DOWN TO AIR HANDLING UNIT COIL.
 - 2"S&R DOWN TO AIR HANDLING UNIT COIL.
 - 2"S&R, 3"CH&CHR DOWN AND THROUGH WALL. SEE SHEET M-103 FOR CONTINUATION.
 - 60"x40"x18" DEEP OUTDOOR AIR INTAKE PLENUM WITH 1" DOUBLE WALL INSULATED PANELS. SLOPE BOTTOM 6" TOWARD LOUVER TO DRAIN. PROVIDE 18"x24" ACCESS DOOR. CONNECT DUCT TO PLENUM WITH 6"-45' FLARED INLET.
 - DUCT SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS. FIELD VERIFY CONDITIONS AND STRUCTURAL MEMBERS/WEBBING.
 - 16"x16" EXHAUST DUCT DOWN. SEE SHEET M-101 FOR CONTINUATION.
 - INSTALL EXHAUST DUCT ALONG TOP OF NEW STRUCTURAL SLAB, BELOW BLEACHERS.
 - 1 1/4" CONDENSATE THRU WALL. TERMINATE WITH A 90° ELBOW DOWN AND DISCHARGE ONTO LOW ROOF. SEAL PENETRATIONS WATER AND AIR TIGHT.
 - TERMINATE 16"x16" EXHAUST DUCT THRU EXTERIOR WALL WITH 45° GOOSENECK DOWN. PROVIDE BIRDSCREEN OVER OPENING.



GREINER BROTHERS INC.
PROJECT RECORD DOCUMENT
DATE: 8-17-10

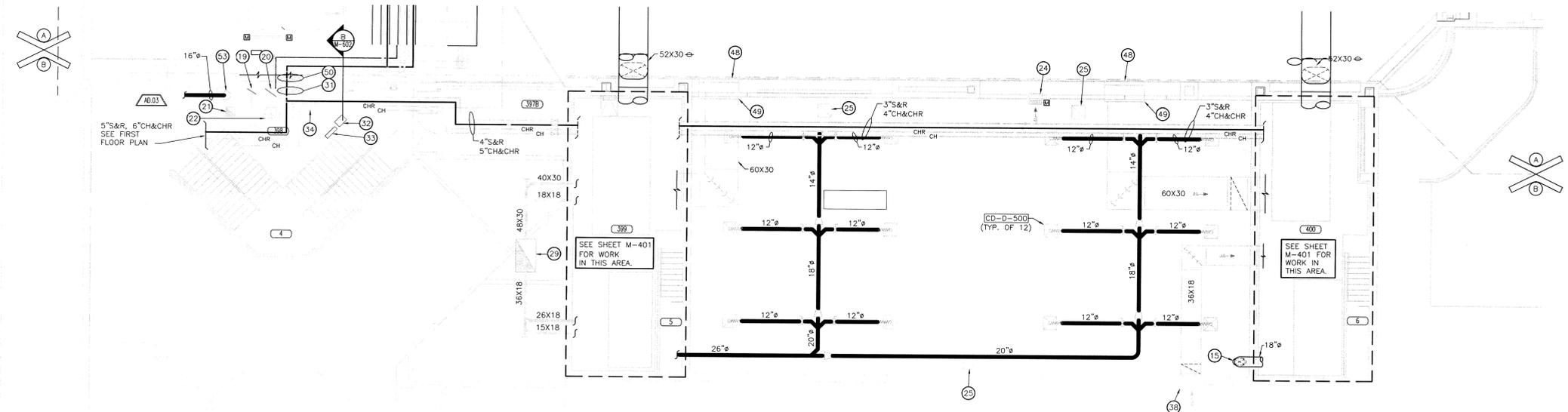
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DESIGN
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PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP

ROOM NAME SCHEDULE	
NO	NAME
4	STAIR
5	STAIR
6	STAIR
336	STORAGE
337	CORRIDOR
338	CONCESSION
338A	PREPARATION
339	CORRIDOR
340	LOBBY
341	CUSTODIAN
342	STORAGE
343	STORAGE
344	ELECTRICAL
344A	ELECTRICAL
345	CUST
346	MEN
347	WOMEN
348	CORRIDOR
349	CLASSROOM
349A	STORAGE
350	CARDIO
351	OFFICE
351A	TOILET
351B	SHOWER
352	LOCKER ROOM
352A	TOILET
352B	SHOWER
353	WEIGHTS
354	ALCOVE
355	COACHES
355A	ELECTRICAL
356	OFFICE
357	CORRIDOR
358	CORRIDOR
359	TRAINER
359A	WHIRLPOOL
359B	STORAGE
360	OFFICE
361	VESTIBULE
376	STORAGE
397B	ALCOVE
398	STORAGE
399	MECHANICAL
400	MECHANICAL



UNIT "B" MECHANICAL SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

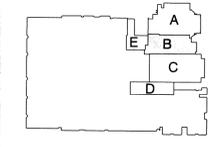


GENERAL NOTES:

- SEE SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL MECHANICAL NOTES.
- SEE SHEETS M-501 AND M-502 FOR MECHANICAL DETAILS.
- SEE SHEETS M-601 AND M-602 FOR MECHANICAL EQUIPMENT SCHEDULES.
- SEE SHEETS M-801 AND M-802 FOR MECHANICAL TEMPERATURE CONTROL DIAGRAMS.
- SEE SHEETS MD011 THROUGH MD106 FOR DEMOLITION DRAWINGS.

PLAN NOTES:

- 6"x6" EXHAUST GRILLE, 115 CFM.
- 24"x12" EXHAUST GRILLE, 435 CFM.
- 18"x18" EXHAUST DUCT UP THRU ROOF TO EF-B1.
- 24"x12" EXHAUST GRILLE, 250 CFM.
- 12"x6" EXHAUST GRILLE, 100 CFM.
- 24"x12" EXHAUST GRILLE, 190 CFM.
- 18"x18" EXHAUST DUCT UP THRU ROOF TO EF-B3.
- 6"x6" EXHAUST GRILLE, 75 CFM.
- 6"x6" EXHAUST GRILLE, 50 CFM.
- 24"x12" EXHAUST GRILLE, 300 CFM.
- 24"x12" EXHAUST GRILLE, 385 CFM.
- 12"x6" EXHAUST GRILLE, 150 CFM.
- 12"x12" EXHAUST DUCT UP THRU ROOF TO EF-B4.
- 12"x12" EXHAUST DUCT UP THRU ROOF TO EF-B2.
- 24"x12" SUPPLY DUCT UP. SEE SECOND FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
- 14"x12" SUPPLY DUCT UP. SEE SECOND FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
- 16"x10" EXHAUST DUCT UP.
- 20"x14" EXHAUST DUCT UP.
- 16"x10" EXHAUST DUCT DOWN.
- 20"x14" EXHAUST DUCT DOWN.
- 16"x16" EXHAUST DUCT UP THRU ROOF TO EF-A4.
- 20"x20" EXHAUST DUCT UP THRU ROOF TO EF-A3.
- 36"x20" OUTDOOR AIR INTAKE PLENUM UP THRU ROOF TO INTAKE GRAVITY VENTILATOR ON ROOF.
- 24"x24" RELIEF GRILLE IN WALL AND 24"x24" DUCT TO MOTORIZED RELIEF DAMPER, INSTALL GRILLE AND DUCT AT 16'-0" ABOVE FINISHED FLOOR.
- 24"x24" EGGRATE RETURN AIR GRILLE IN LAY-IN CEILING AND OPEN TO CEILING PLENUM.
- 24"x12" TRANSFER AIR DUCT THRU WALL, SEE DETAIL.
- EXISTING CABINET HEATER, PROVIDE NEW PIPING.
- EXISTING CONVECTOR, PROVIDE NEW PIPING.
- 60"x36" DUCT UP TO 60"x36"x48" HIGH OUTDOOR AIR INTAKE PENTHOUSE ON ROOF.
- 2 1/2" S&R, 8" CH&CHR UP, SEE SECOND FLOOR PLAN THIS SHEET.
- 2 1/2" S&R, 8" CH&CHR DOWN, SEE FIRST FLOOR PLAN THIS SHEET.
- VARIABLE FREQUENCY DRIVE, AHU-A5.
- TEMPERATURE CONTROL PANEL, AHU-A5.
- PROVIDE SHUT-OFF VALVES IN PIPING MAINS AT THIS LOCATION.
- 24"x12" EGGRATE RETURN AIR GRILLE IN LAY-IN CEILING AND OPEN TO CEILING PLENUM.
- CONNECT NEW 6" S&R TO EXISTING 10" MAINS AT THIS LOCATION.
- 12"x12" TRANSFER AIR DUCT THRU WALL, SEE DETAIL.
- PROVIDE 6" LONG, 45° FLARED RETURN AIR INLET.
- 12"x10" EXHAUST GRILLE, 300 CFM.
- 12"x12" EXHAUST GRILLE, 500 CFM.
- 16"x16" EXHAUST DUCT UP THRU ROOF TO EF-B5.
- 2" CONDENSATE DRAIN DOWN, TERMINATE 6" ABOVE MOP SINK BASIN.
- VARIABLE FREQUENCY DRIVE, AHU-B5.
- TEMPERATURE CONTROL PANEL, AHU-B5.
- SERVICE GRATING BY THE MECHANICAL CONTRACTOR.
- 1 1/2" CH&CHR, SEE SHEET M-106 FOR CONTINUATION.
- EXISTING PIPING TO REMAIN.
- 6'-4" X 5'-4" X 2'-6" DEEP RETURN AIR PLENUM.
- 2" S&R, 3" CH&CHR UP. SEE SHEET M-102 FOR CONTINUATION.
- SEE SHEET M-101 FOR CONTINUATION.
- 16" SUPPLY UP. SEE SECOND FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
- 16" SUPPLY DOWN. SEE FIRST FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
- 10" SUPPLY DUCT DOWN TO CONCESSION AREA.
- TEMPORARY BYPASS VALVE.



KEY PLAN

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Indianapolis, IN 46260
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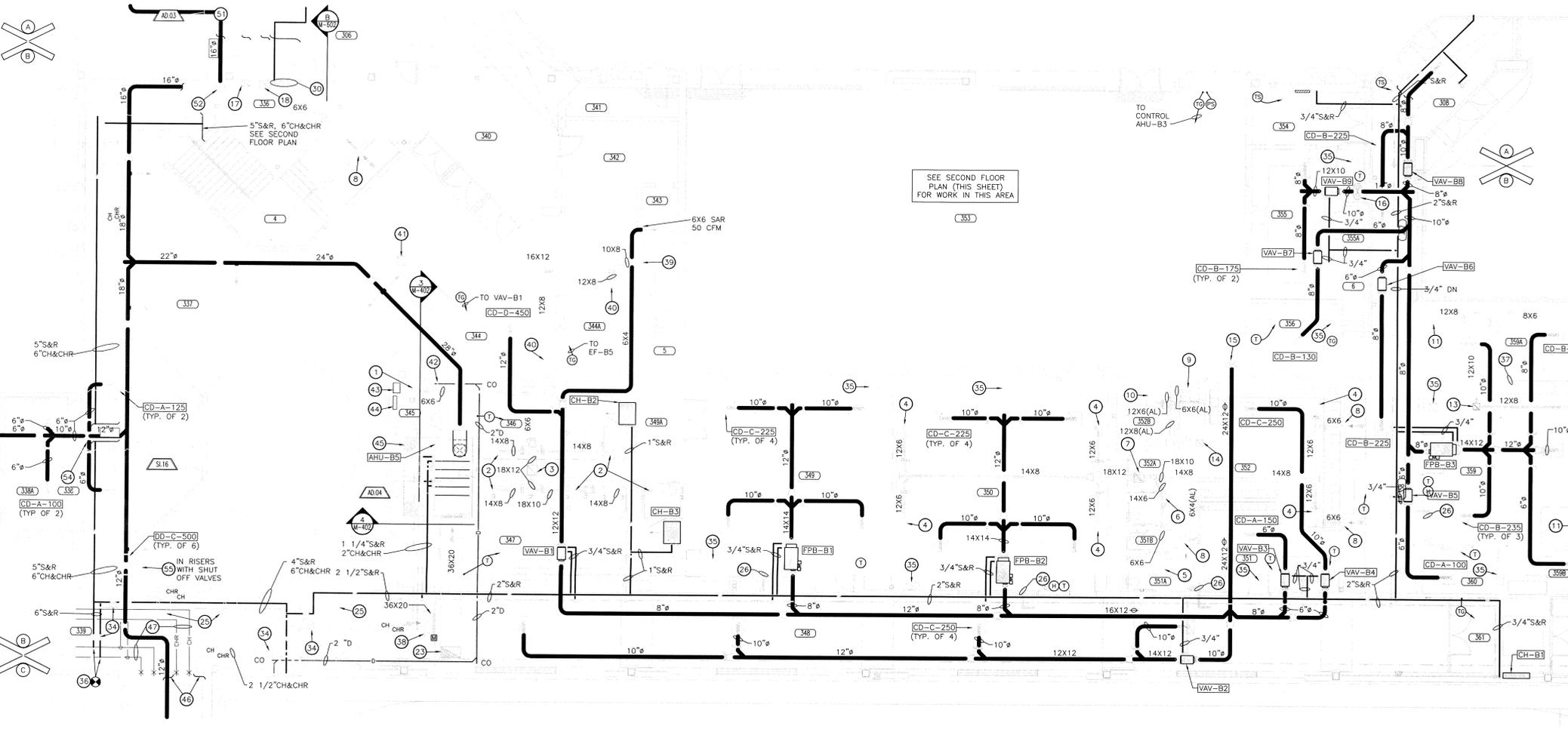
PROJECT: 06-612
DATE: 03/19/07
COORDINATED BY: RWN
DRAWN BY: WAB
CHECKED BY: CAC

REVISIONS:

MARK	DATE	ISSUED FOR
AD.03	04/06/07	ADDENDUM #3
AD.04	04/12/07	ADDENDUM #4
8-17-10	AS-BUILT	- GREINER BROTHERS INC.

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DRAWING: UNIT "B" MECHANICAL FIRST AND SECOND FLOOR PLANS
PROJECT: LAWRENCE CENTRAL HIGH SCHOOL
SHEET: B M-103



UNIT "B" MECHANICAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



GREINER BROTHERS INC.
PROJECT RECORD DOCUMENT
DATE: 8-17-10

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AD.04
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GENERAL NOTES:

1. SEE SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL MECHANICAL NOTES.
2. SEE SHEETS M-501 AND M-502 FOR MECHANICAL DETAILS.
3. SEE SHEETS M-601 AND M-602 FOR MECHANICAL EQUIPMENT SCHEDULES.
4. SEE SHEETS M-801 AND M-802 FOR MECHANICAL TEMPERATURE CONTROL DIAGRAM.
5. SEE SHEETS MD101 THROUGH MD106 FOR DEMOLITION DRAWINGS.

PLAN NOTES:

- ① 54"x54" RETURN AIR GRILLE, INSTALL IN RETURN AIR DUCT AT 6" ABOVE BOTTOM OF DUCTWORK.
- ② 70"x24" RETURN AIR DUCT FROM 12'-0" ABOVE FLOOR UP TO AIR HANDLING UNIT ABOVE, SEE SHEET M-105 FOR CONTINUATION.
- ③ 2"S&R UP. SEE SHEET M-104 FOR CONTINUATION.
- ④ 70"x24" RETURN AIR DUCT FROM 14'-0" ABOVE FLOOR UP TO AIR HANDLING UNIT ABOVE, SEE SHEET M-105 FOR CONTINUATION.
- ⑤ 4"S&R, 5"CH&CHR, 2'D UP. SEE SHEET M-105 FOR CONTINUATION.
- ⑥ SEE SHEET M-103 FOR CONTINUATION.

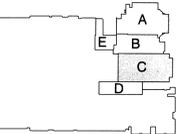
ROOM NAME SCHEDULE

NO	NAME
362	STORAGE
363	MULTI-PURPOSE GYMNASIUM
364	CORRIDOR



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DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
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DATE: 03/19/07
COORDINATED BY: RWV
DRAWN BY: WAB
CHECKED BY: CAC

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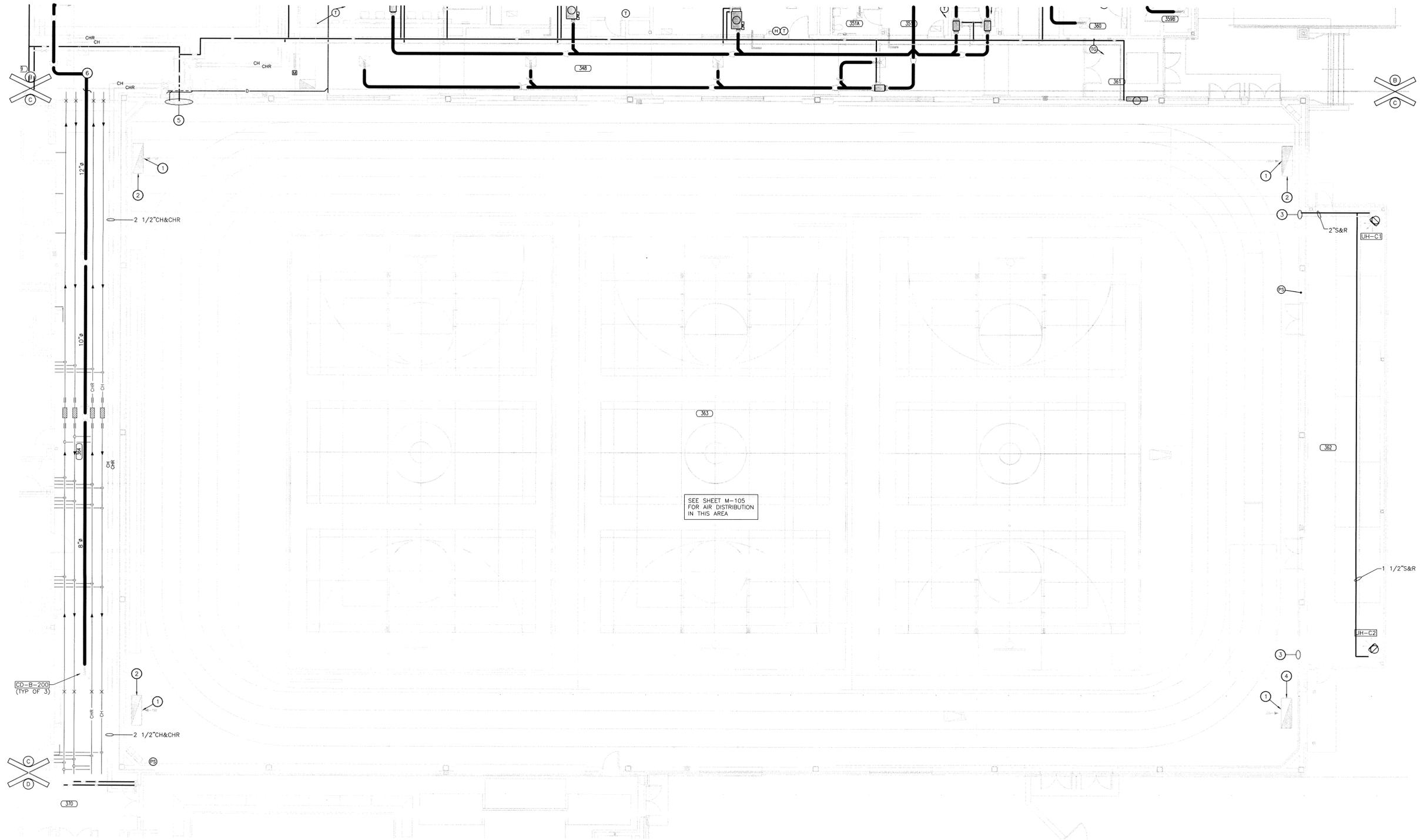
REVISIONS

MARK	DATE	ISSUED FOR
8-17-10	AS-BUILT	GRENER BROTHERS INC.

DRAWING
UNIT "C" MECHANICAL FIRST FLOOR PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

© GIBRALTAR DESIGN SHEET
C M-104



UNIT "C" MECHANICAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



GREINER BROTHERS INC.
PROJECT RECORD DOCUMENT
DATE: 8-17-10

GENERAL NOTES:

- SEE SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL MECHANICAL NOTES.
- SEE SHEETS M-501 AND M-502 FOR MECHANICAL DETAILS.
- SEE SHEETS M-601 AND M-602 FOR MECHANICAL EQUIPMENT CONTROL DIAGRAMS.
- SEE SHEETS M-801 AND M-802 FOR MECHANICAL TEMPERATURE CONTROL DIAGRAMS.
- SEE SHEETS MD101 THROUGH MD106 FOR DEMOLITION DRAWINGS.
- ALL DUCT IN MULTI-PURPOSE GYM (363) SHALL BE 1" DOUBLE WALL INTERNALLY INSULATED DUCT AND FITTINGS WITH EXTERIOR PAINT GRIP SURFACE.

PLAN NOTES:

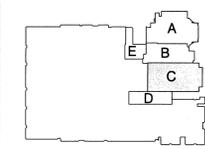
- 70"x24" RETURN AIR DUCT DOWN. SEE SHEET M-104 FOR CONTINUATION.
- 2"S&R DOWN. SEE SHEET M-104 FOR CONTINUATION.
- 4"S&R, 5"CH&CHR, 2"D DOWN. SEE SHEET M-104 FOR CONTINUATION.
- INSTALL CONDENSATE DRAIN BELOW CATWALK.
- AHU TEMPERATURE CONTROL PANEL (48" ABOVE CATWALK).
- AHU VARIABLE FREQUENCY DRIVE (48" ABOVE CATWALK).
- COORDINATE LOCATION AND SUPPORT OF DUCTWORK THRU TRUSS WEBBING WITH TRUSS MANUFACTURER.
- SUSPEND AIR HANDLING UNIT FROM STRUCTURAL ROOF FRAMING. PROVIDE ALL STRUCTURAL SUPPORTS, SUSPENSION ANGLES, RODS, VIBRATION ISOLATORS, ETC. AS REQUIRED TO SUPPORT UNITS FROM ROOF FRAMING. LOCATE SUSPENSION RODS TO AVOID CONFLICT WITH AHU ACCESS DOORS.
- 48"x48" DUCT WITH 48"x48" MOTORIZED RELIEF AIR DAMPER, UP TO GRAVITY RELIEF AIR VENTILATOR ON ROOF. MOTORIZED DAMPER SHALL BE CONTROLLED BY BUILDING PRESSURE SENSOR LOCATED IN FIELDHOUSE BELOW.

ROOM NAME SCHEDULE	
NO	NAME
363	MULTI-PURPOSE GYMNASIUM



GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



KEY PLAN

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Email: info@GibraltarDesign.com
Phone: 317.560.5777 Fax: 317.560.5778

PROJECT: 06-612
DATE: 03/19/07
COORDINATED BY: RWN
DRAWN BY: WAB
CHECKED BY: CAC

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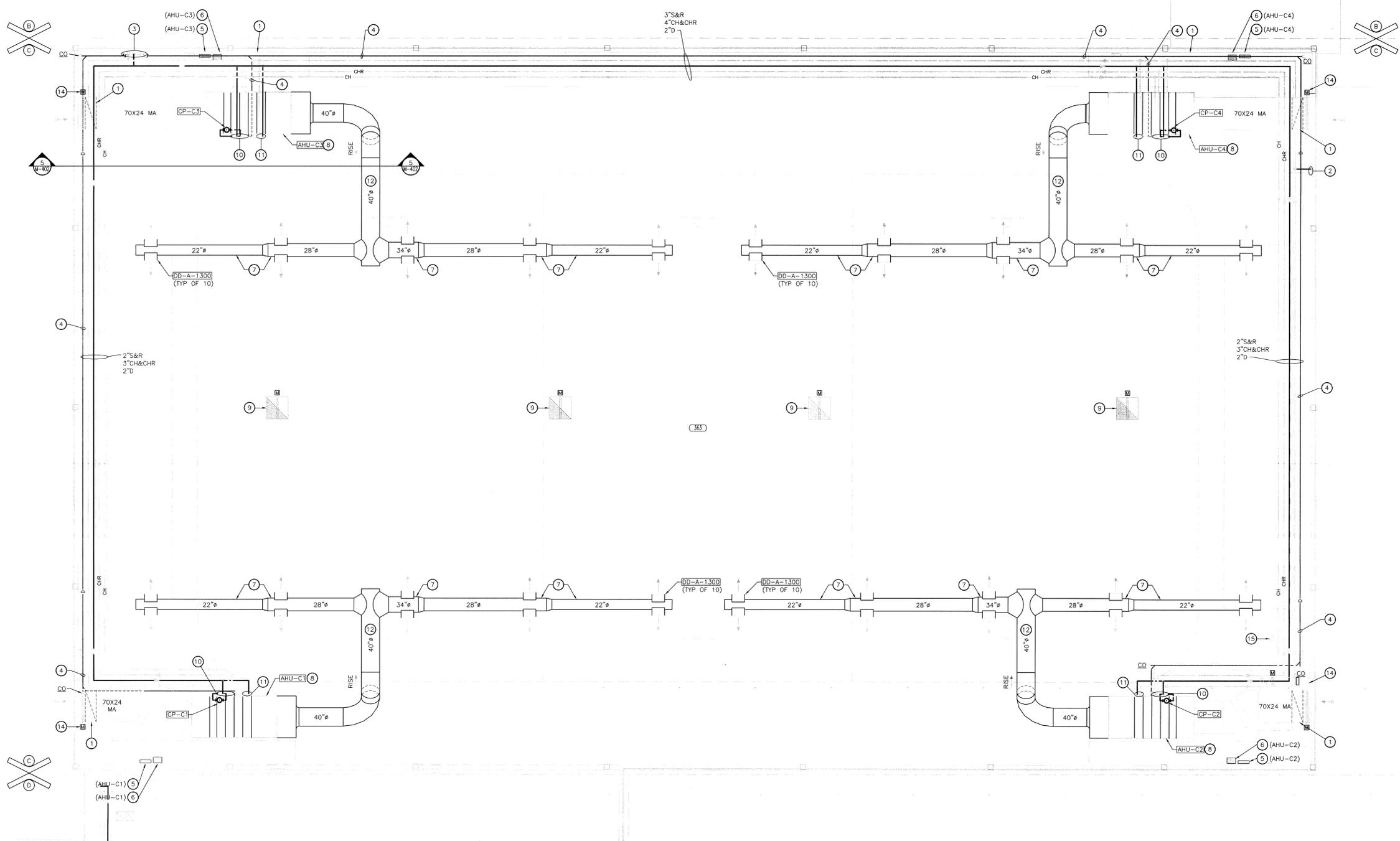
REVISIONS		
MARK	DATE	ISSUED FOR
8-17-10		AS-BUILT - GREINER BROTHERS INC.

DRAWING
UNIT "C" MECHANICAL SECOND FLOOR PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

GIBRALTAR DESIGN SHEET
C M-105

GREINER BROTHERS INC.
PROJECT RECORD DOCUMENT
DATE: 8-17-10



UNIT "C" MECHANICAL SECOND FLOOR PLAN

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



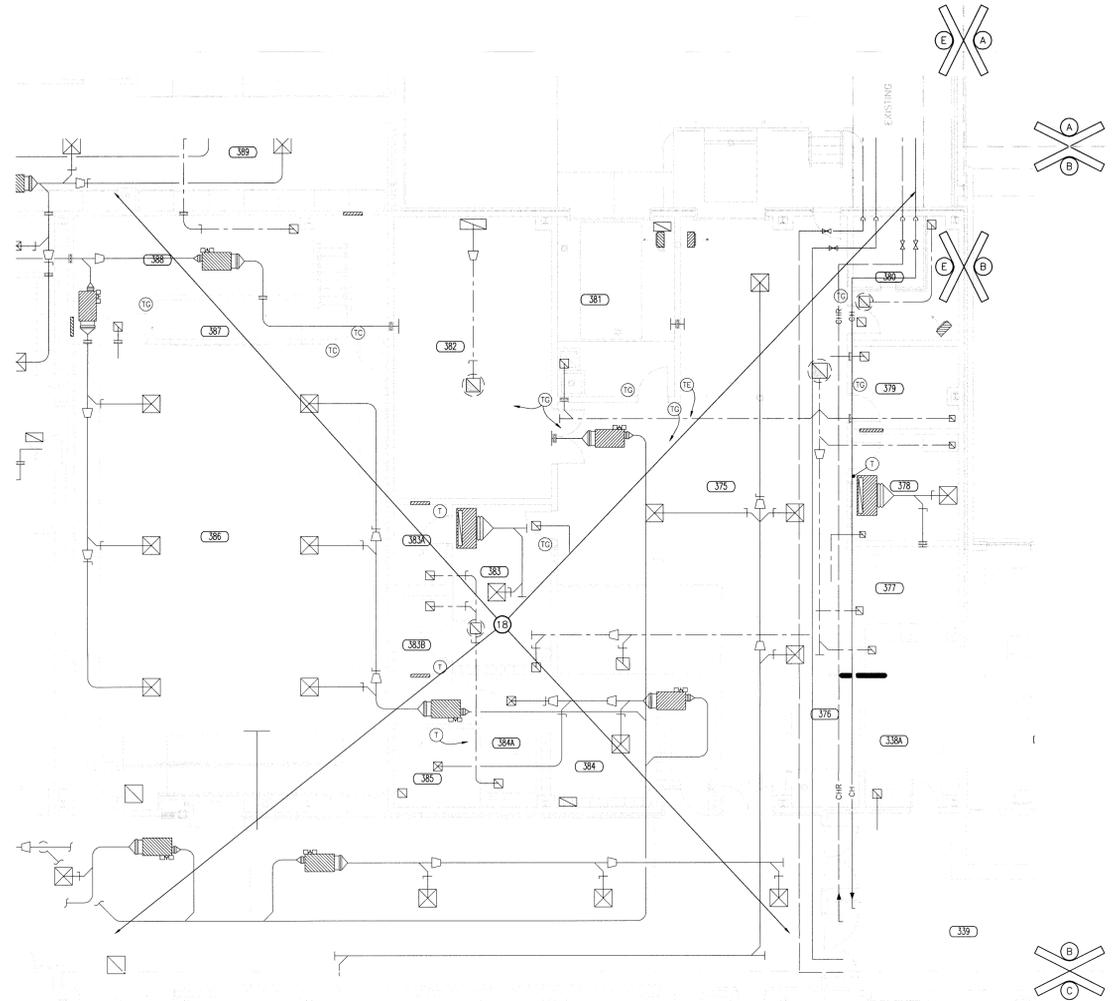
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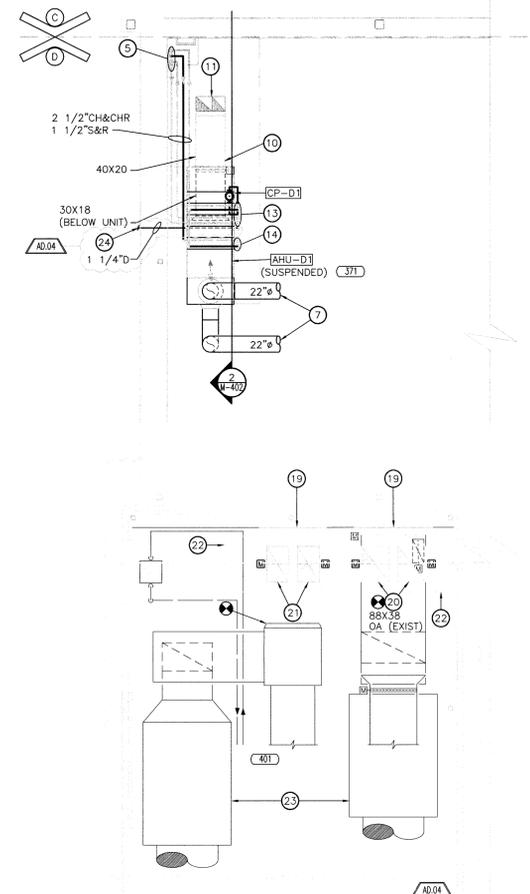
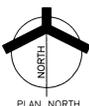
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PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP

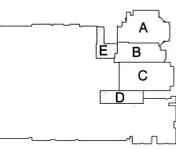
ROOM NAME SCHEDULE	
NO	NAME
365	CORRIDOR
366	CLASSROOM
367	CLASSROOM
368	CLASSROOM
369	CORRIDOR
370	CORRIDOR
371	GYMNASTICS
371A	STORAGE
375	RECEIVING
376	STORAGE
377	TELECOM
378	OFFICE
379	STORAGE
380	SPRINKLER
381	COMPACTOR
382	ELECTRICAL
383	LOUNGE
383A	TOILET
383B	TOILET
384	LOUNGE
384A	TOILET
385	OFFICE
386	REHEARSAL
387	PLATIFORM
388	STORAGE
389	UNIFORM
390	UNIFORM
391	PERCUSSION
392	LARGE INSTRUMENT
393	ENSEMBLE
401	MECHANICAL



UNIT "E" MECHANICAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



UNIT "D" MECHANICAL SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN

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PROJECT: 06-612
DATE: 03/19/07
COORDINATED BY: RWN
DRAWN BY: WAB
CHECKED BY: CAC

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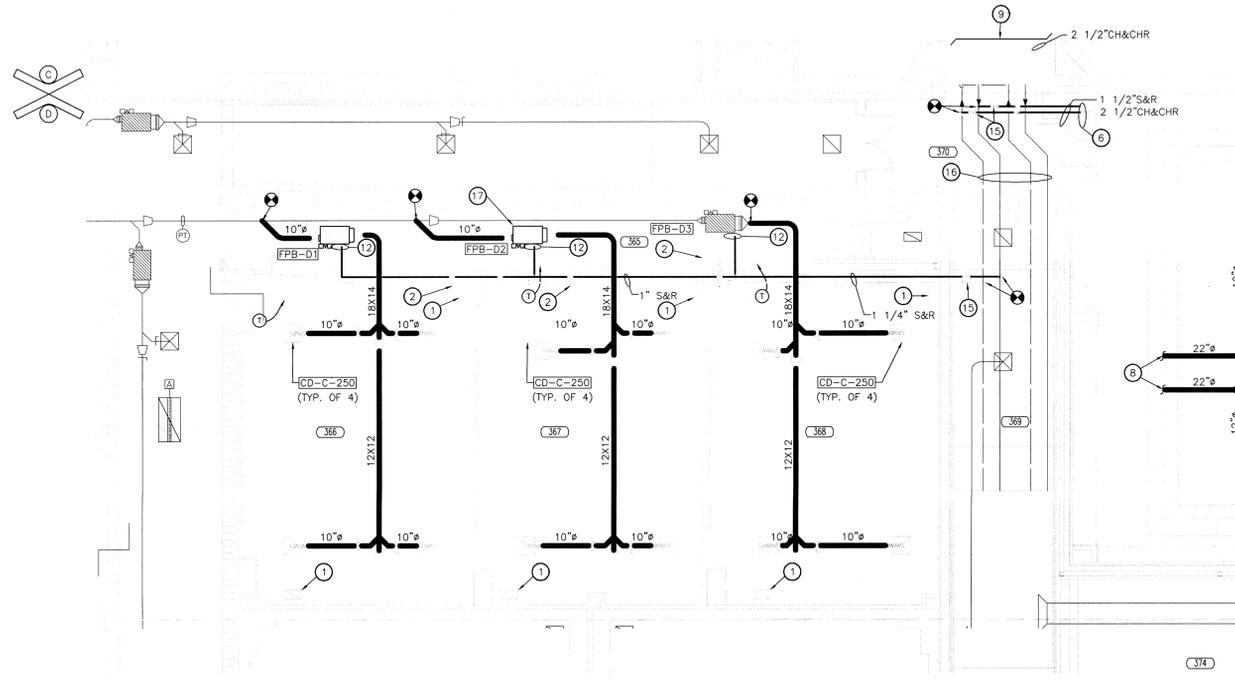
REVISIONS
MARK DATE ISSUED FOR
AD.04 4/12/07 ADDENDUM #4
8-17-10 AS-BUILT - GREINER BROTHERS INC.

DRAWING: UNITS "D" AND "E" MECHANICAL FIRST AND SECOND FLOOR PLANS
PROJECT: LAWRENCE CENTRAL HIGH SCHOOL

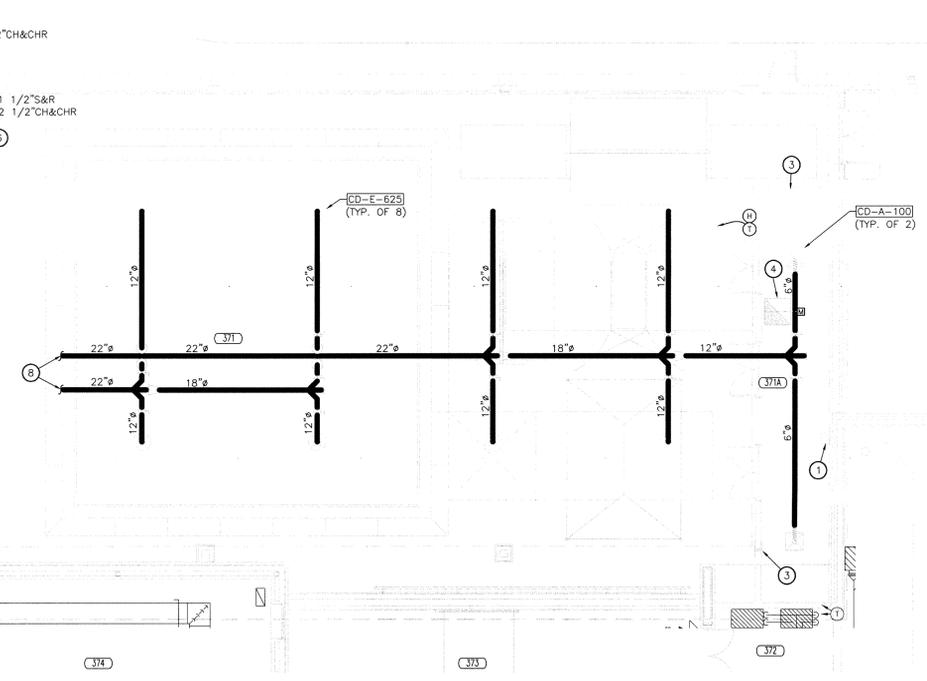
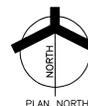
GIBRALTAR DESIGN SHEET
D, E M-106

- GENERAL NOTES:**
- SEE SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL MECHANICAL NOTES.
 - SEE SHEETS M-501 AND M-502 FOR MECHANICAL DETAILS.
 - SEE SHEETS M-601 AND M-602 FOR MECHANICAL EQUIPMENT SCHEDULES.
 - SEE SHEETS M-801 AND M-802 FOR MECHANICAL TEMPERATURE CONTROL DIAGRAMS.
 - SEE SHEETS MD101 THROUGH MD106 FOR DEMOLITION DRAWINGS.

- PLAN NOTES:**
- 24"x12" RETURN AIR GRILLE IN CEILING AND OPEN TO RETURN AIR FLENUM.
 - 24"x16" (LINED) TRANSFER AIR DUCT THRU WALL ABOVE CEILING.
 - 24"x16" (LINED) TRANSFER AIR DUCT. INSTALL BOTTOM OF DUCT NO LESS THAN 10'-0" A.F.F. TERMINATE WITH 24"x16" SIDEWALL RETURN AIR GRILLE ON EACH SIDE.
 - 36"x36" RELIEF AIR DUCT UP TO RELIEF VENT ON ROOF. INSTALL A MOTORIZED DAMPER IN RELIEF DUCT AS INDICATED. DAMPER SHALL BE CONTROLLED BY A STATIC PRESSURE SENSOR IN GYMNASIUMS 370. SEE TYPICAL RELIEF VENT DETAIL.
 - 1 1/2"S&R AND 2 1/2"CH&CHR DOWN. SEE FIRST FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
 - 2 1/2"S&R AND 2 1/2"CH&CHR UP. SEE FIRST FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
 - SEE FIRST FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
 - SEE SECOND FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
 - SEE SHEET M-104 FOR CONTINUATION.
 - AIR MEASURING STATION.
 - 40"x20" OUTDOOR INTAKE DUCT UP THRU ROOF TO GRAVITY INTAKE HOOD.
 - 3/4"S&R PIPING DROP TO AIR TERMINAL UNIT.
 - 1 1/2"S&R, 2 1/2"CH&CHR DOWN TO AIR HANDLING UNIT COIL.
 - 1 1/2"S&R DOWN TO AIR HANDLING UNIT COIL.
 - INSTALL SHUT-OFF VALVES AT THIS LOCATION.
 - EXISTING PIPING MAINS TO REMAIN.
 - RELOCATED EXISTING FAN POWERED VAV TERMINAL.
 - NO WORK REQUIRED IN THIS AREA.
 - COVER HOLE IN EXISTING SHEETMETAL FLENUM WITH 1" DOUBLE WALL INSULATED PANEL.
 - CAP END OF EXISTING 88"x38" OA DUCT. CONNECT NEW 88"x48" OA DUCT TO TOP OF EXISTING 88"x38" OA DUCT AND EXTEND UP THRU ROOF TO LOUVERED PENTHOUSE. DIVIDE NEW 88"x48" DUCT TO ACCOMMODATE EXISTING STRUCTURAL (FIELD VERIFY). INSTALL NEW TEMPERATURE CONTROL DAMPERS IN EACH DIVIDED SECTIONS OF DUCT.
 - 72"x48" OA DUCT UP THRU ROOF TO LOUVERED PENTHOUSE. DIVIDE NEW 72"x48" DUCT TO ACCOMMODATE EXISTING STRUCTURAL (FIELD VERIFY). INSTALL NEW TEMPERATURE CONTROL DAMPERS IN EACH DIVIDED SECTIONS OF DUCT.
 - NEW LOUVERED PENTHOUSE ON ROOF. SEE SHEET MR101 FOR INFORMATION.
 - EXISTING AIR HANDLING UNIT.
 - 1 1/4" CONDENSATE THRU WALL. TERMINATE WITH 90° ELBOW DOWN AND DISCHARGE ONTO LOW ROOF. SEAL PENETRATIONS WATER AND AIR TIGHT.

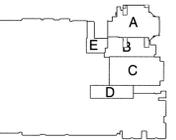


UNIT "D" MECHANICAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



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GREINER BROTHERS INC.
PROJECT RECORD DOCUMENT
DATE: 8-17-10



KEY PLAN

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PROJECT
06-612
DATE
03/19/07
COORDINATED BY
RWN
DRAWN BY
WAB
CHECKED BY
CAC

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REVISIONS
MARK DATE ISSUED FOR
AD.03 04/06/07 ADDENDUM #3
8-17-10 AS-BUILT - GREINER BROTHERS INC.

DRAWING
**MECHANICAL ROOMS
322A, 396, 399 & 400
ENLARGED PLANS
AND SECTIONS**

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

GENERAL NOTES:

- SEE SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL MECHANICAL NOTES.
- SEE SHEET M-501 AND M-502 FOR MECHANICAL DETAILS.
- SEE SHEET M-601 AND M-602 FOR MECHANICAL EQUIPMENT SCHEDULES.
- SEE SHEET M-801 AND M-802 FOR MECHANICAL TEMPERATURE CONTROL DIAGRAMS.

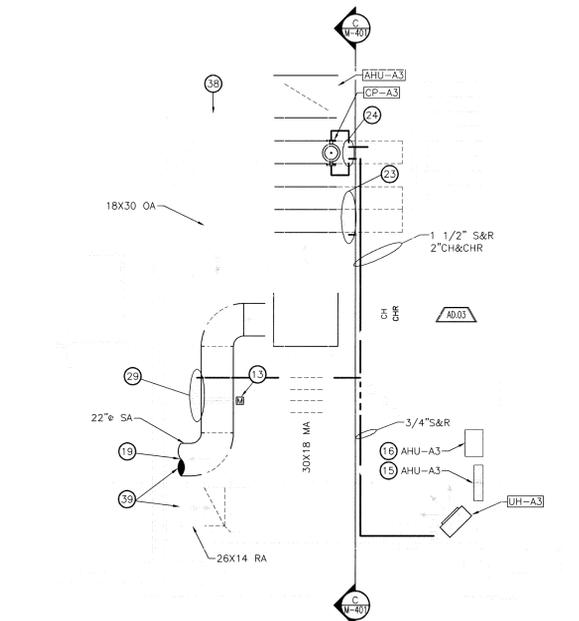
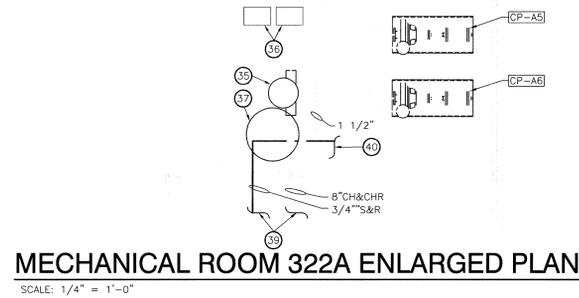
PLAN NOTES:

- FLEXIBLE DUCT CONNECTION.
- FAN SECTION WITH ACCESS DOOR AND INTERNAL VIBRATION ISOLATION MOTOR AND FAN ASSEMBLY.
- COOLING COIL SECTION.
- HEATING COIL SECTION.
- ANGLED FILTER/MIXING SECTION WITH ACCESS DOOR.
- TRAPPED CONDENSATE DRAIN, TERMINATE OVER NEAREST FLOOR DRAIN.
- 4" CONCRETE HOUSEKEEPING PAD BY G.C.
- MIXED AIR PLENUM (SIZE TO MATCH FILTER/MIXING BOX SECTION OPENING DIMENSIONS).
- FLAT FILTER SECTION WITH ACCESS DOOR AND 4"-65% FILTERS.
- BLANK SECTION WITH ACCESS DOORS.
- SUPPLY AIR DISCHARGE PLENUM SECTION WITH ACCESS DOOR INTERIOR PLENUM WALL SHALL BE PERFORATED. PROVIDE GRATE OVER FLOOR OPENINGS. (FIELD CUT DUCT CONNECTIONS)
- 8" BASE RAIL, PROVIDE BY THE AIR HANDLING UNIT MANUFACTURER.
- MOTORIZED CONTROL DAMPER.
- REHEAT COIL SECTION.
- TEMPERATURE CONTROL PANEL.
- VARIABLE FREQUENCY DRIVE.
- AIR FLOW MEASURING STATION.
- CONNECT SUPPLY AIR DUCT TO AIR HANDLING UNIT WITH A BELLMOUTH FITTING.
- PROVIDE SHUT-OFF VALVES IN RISER PIPES.
- EXISTING OUTDOOR AIR INTAKE LOUVER TO REMAIN.
- 10'-0" X 6'-8" X 1'-6" DEEP OUTDOOR AIR INTAKE PLENUM. CONSTRUCT PLENUM WITH 1" DOUBLE WALL INSULATED PANELS. SLOPE BOTTOM 6" TOWARD LOUVER TO DRAIN. PROVIDE 18"x24" HIGH ACCESS DOOR. CONNECT DUCT TO PLENUM WITH 6"-45° FLARED INLET.

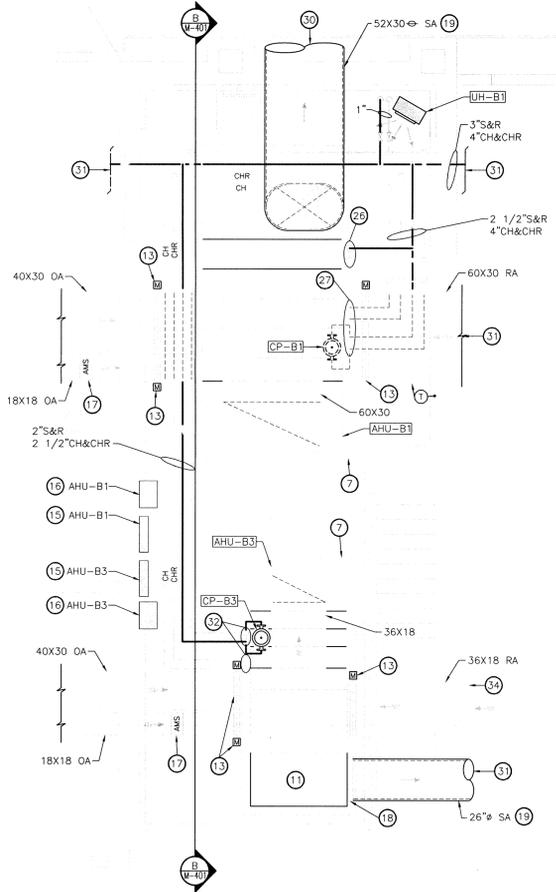
- 1 1/2"S&R, 2"CH&CHR DOWN TO AHU-A3.
- 1 1/2"S&R DOWN TO AHU-A3.
- 2 1/2"S&R, 4"CH&CHR DOWN TO AHU-B1.
- 2"S&R DOWN TO AHU-B1.
- 2 1/2"S&R, 4"CH&CHR DOWN TO AHU-B2.
- 2"S&R DOWN TO AHU-B2.
- 1 1/2"S&R, 2"CH&CHR DOWN THRU FLOOR. SEE SHEET M-101 FOR CONTINUATION.
- SEE SHEET M-102 FOR CONTINUATION.
- SEE SHEET M-103 FOR CONTINUATION.
- 2"S&R, 2 1/2"CH&CHR DOWN TO AHU-B3.
- 54"x30" OUTSIDE AIR DUCT UP THRU ROOF TO INTAKE VENTILATOR.
- PROVIDE 6" LONG, 45° FLARED RETURN AIR INLET FITTING.
- CHILLED WATER SYSTEM AIR SEPARATOR.
- VARIABLE FREQUENCY DRIVE FOR CIRCULATING PUMPS.
- CHILLED WATER SYSTEM EXPANSION TANK.

- 4'-0" X 3'-4" X 3'-6" DEEP OUTDOOR AIR INTAKE PLENUM. CONSTRUCT PLENUM WITH 1" DOUBLE WALL INSULATED PANELS. SLOPE BOTTOM 6" TOWARD LOUVER TO DRAIN. PROVIDE 18"x24" HIGH ACCESS DOOR. CONNECT DUCT TO PLENUM WITH 6"-45° FLARED INLET.
- SEE SHEET M-101 FOR CONTINUATION.
- 3/4"S&R TO CUH-A11. SEE SHEET M-101 FOR CONTINUATION.

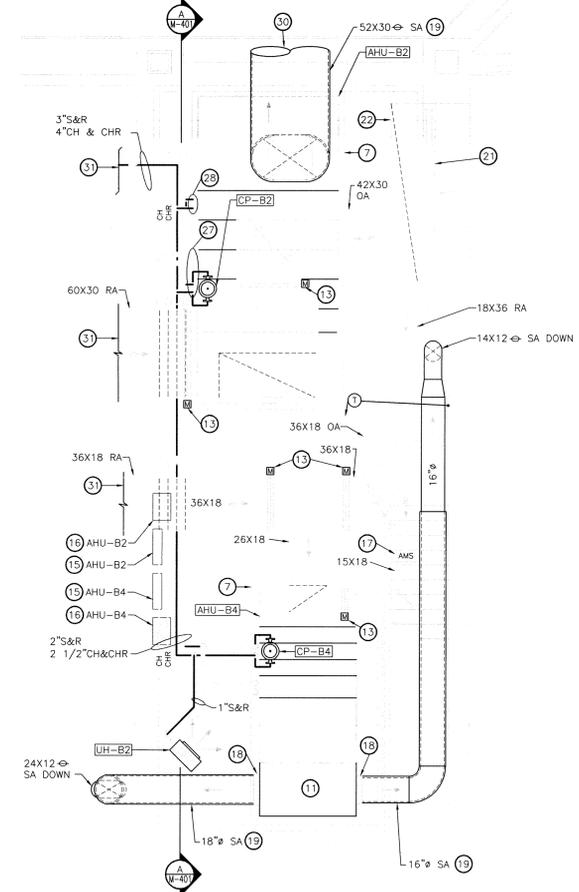
GREINER BROTHERS INC.
PROJECT RECORD DOCUMENT
DATE: 8-17-10



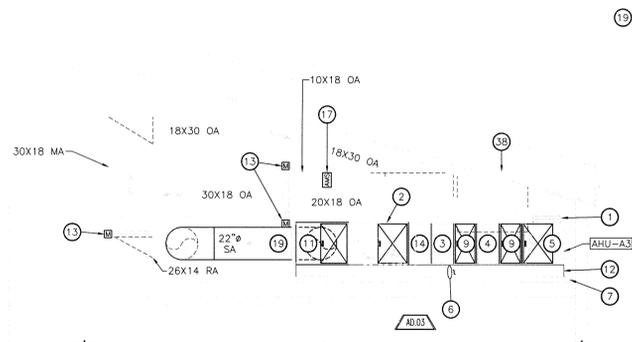
MECHANICAL ROOM 396 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



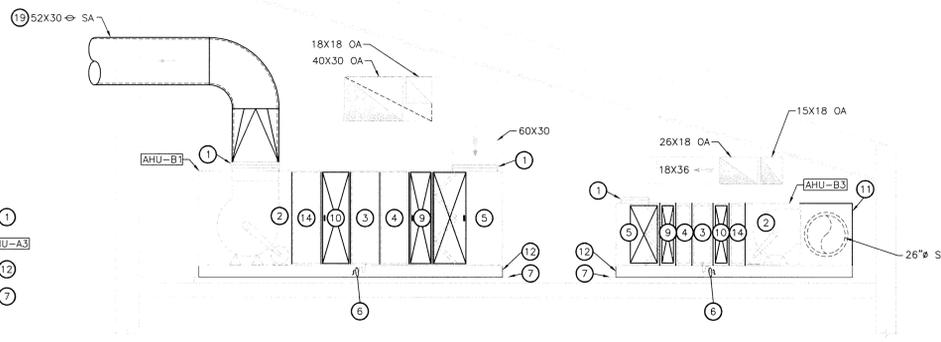
MECHANICAL ROOM 399 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



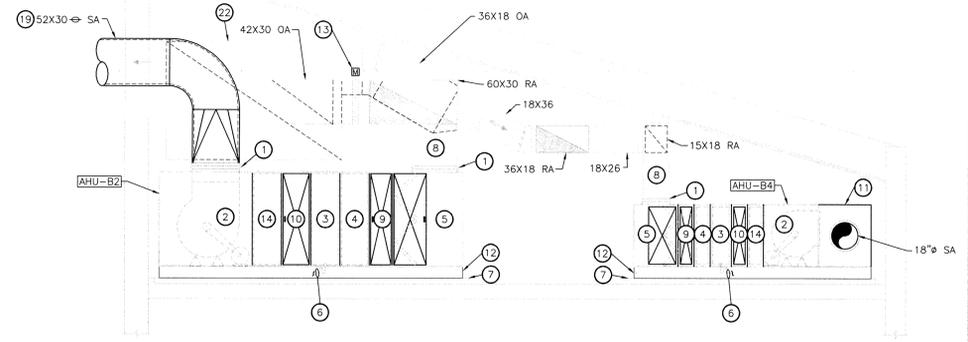
MECHANICAL ROOM 400 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



AIR HANDLING UNIT SECTION
SCALE: 1/4" = 1'-0"



AIR HANDLING UNIT SECTION
SCALE: 1/4" = 1'-0"



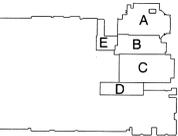
AIR HANDLING UNIT SECTION
SCALE: 1/4" = 1'-0"





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DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



KEY PLAN

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PROJECT: 06-612
DATE: 03/19/07
COORDINATED BY: RWN
DRAWN BY: WAB
CHECKED BY: CAC

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REVISIONS

MARK	DATE	ISSUED FOR
B-17-10	AS-BUILT	GRENER BROTHERS INC.

DRAWING:
MECHANICAL ROOM 395 ENLARGED PLAN AND MECHANICAL SECTIONS AND DIAGRAMS
PROJECT:
LAWRENCE CENTRAL HIGH SCHOOL

GIBRALTAR DESIGN SHEET

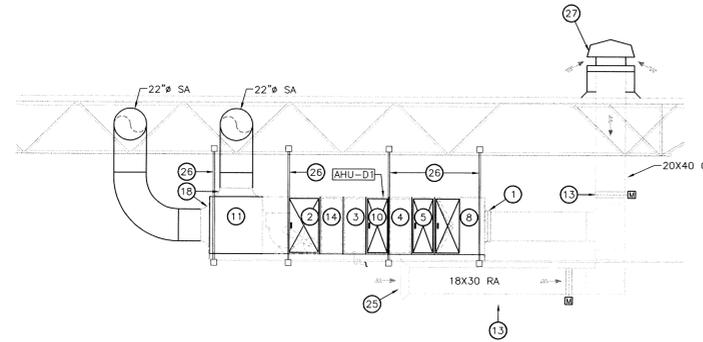
M-402

GENERAL NOTES:

- SEE SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL MECHANICAL NOTES.
- SEE SHEET M-501 AND M-502 FOR MECHANICAL DETAILS.
- SEE SHEET M-601 AND M-602 FOR MECHANICAL EQUIPMENT SCHEDULES.
- SEE SHEET M-801 AND M-802 FOR MECHANICAL TEMPERATURE CONTROL DIAGRAMS.

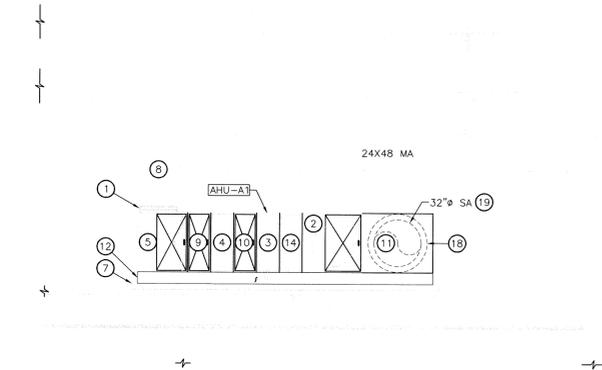
PLAN NOTES:

- FLEXIBLE DUCT CONNECTION.
- FAN SECTION WITH ACCESS DOOR AND INTERNAL VIBRATION ISOLATION MOTOR AND FAN ASSEMBLY.
- COOLING COIL SECTION.
- HEATING COIL SECTION.
- ANGLED FILTER/MIXING SECTION WITH ACCESS DOOR.
- TRAPPED CONDENSATE DRAIN, TERMINATE OVER NEAREST FLOOR DRAIN.
- 4" CONCRETE HOUSEKEEPING PAD BY G.C.
- MIXED AIR PLENUM (SIZE TO MATCH FILTER/MIXING BOX SECTION OPENING DIMENSIONS).
- FLAT FILTER SECTION WITH ACCESS DOOR AND 4"-65% FILTERS.
- BLANK SECTION WITH ACCESS DOORS.
- 36" DEEP FIELD FABRICATED DISCHARGE AIR PLENUM SECTION (PLENUM HEIGHT AND WIDTH SHALL MATCH AIR HANDLING UNIT DIMENSIONS, FIELD VERIFY). CONSTRUCTED OF 2" THICK DOUBLE WALL INSULATED PANEL. INNER WALL SHALL BE PERFORATED PANEL. CONNECT SUPPLY DUCT(S) TO PLENUM WALL WITH BELLMOUTH FITTING.
- 8" BASE RAIL, PROVIDE BY THE AIR HANDLING UNIT MANUFACTURER.
- MOTORIZED CONTROL DAMPER.
- REHEAT COIL SECTION.
- TEMPERATURE CONTROL PANEL.
- VARIABLE FREQUENCY DRIVE.
- AIR FLOW MEASURING STATION.
- CONNECT SUPPLY AIR DUCT TO AIR HANDLING UNIT WITH A BELLMOUTH FITTING.
- PROVIDE DOUBLE WALL INTERNALLY INSULATED DUCT AND FITTINGS WITH PERFORATED INNER LINER (SOUND CONTROL) FOR A DISTANCE OF 15'-0" DOWNSTREAM OF THE AIR HANDLING UNIT DISCHARGE.
- PROVIDE SHUT-OFF VALVES IN RISER PIPES.
- 1 1/2" S&R, 2 1/2" CH&CHR DOWN TO AHU-A1.
- 1 1/2" S&R DOWN TO AHU-A1.
- 2" S&R, 2 1/2" CH&CHR DOWN THRU FLOOR, SEE SHEET M-101 FOR CONTINUATION.
- 54"x30" OUTSIDE AIR DUCT UP THRU ROOF TO INTAKE VENTILATOR.
- PROVIDE 6" LONG, 45" FLARED RETURN AIR INLET FITTING.
- MECHANICAL CONTRACTOR TO PROVIDE STRUCTURAL SUPPORTS AS REQUIRED TO SUSPEND AIR HANDLING UNIT FROM BUILDING ROOF STRUCTURE ABOVE.
- 50"x32" GRAVITY INTAKE VENTILATOR (42"x24" THROAT). SIMILAR TO GREENHECK GRI MODEL. INCLUDE BIRDSCREEN.
- SERVICE GRATING BY THE MECHANICAL CONTRACTOR.
- GRAVITY INTAKE VENTILATOR, SIMILAR TO GREENHECK GRI MODEL. INCLUDE BIRDSCREEN.



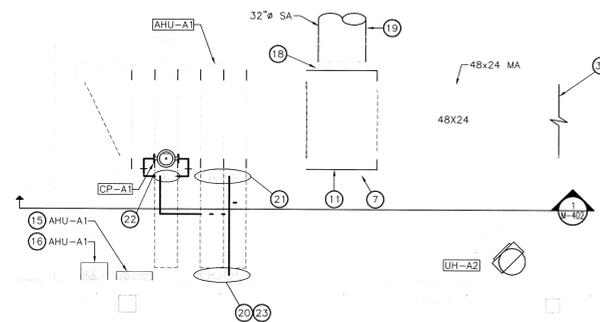
AIR HANDLING UNIT SECTION 2

SCALE: 1/4" = 1'-0"



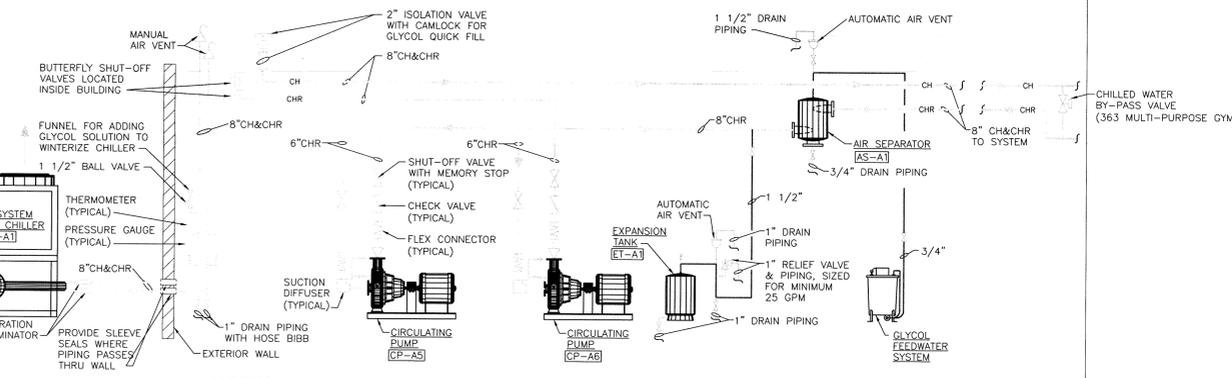
AIR HANDLING UNIT SECTION 3

SCALE: 1/4" = 1'-0"



MECHANICAL ROOM 395 ENLARGED PLAN

SCALE: 1/4" = 1'-0"



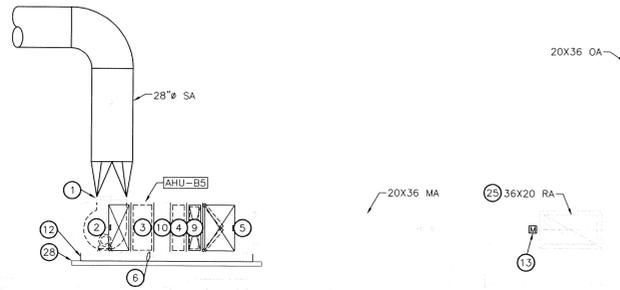
NOTES:

- TERMINATE ALL DRAIN PIPING AND RELIEF PIPING OVER NEAREST FLOOR DRAIN.
- ALL FLOOR MOUNTED EQUIPMENT (BASE MOUNTED PUMPS, EXPANSION TANK, ETC.) SHALL HAVE A 4" HIGH HOUSEKEEPING PAD. SEE ENLARGED PLAN THIS SHEET.
- INSTALL HEAT TAPE ON ALL EXTERIOR CHILLED WATER PIPING.

CHILLED WATER SYSTEM PIPING DIAGRAM

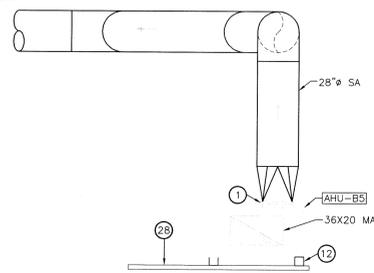
NOT TO SCALE

(GLYCOL FEEDWATER SYSTEM)



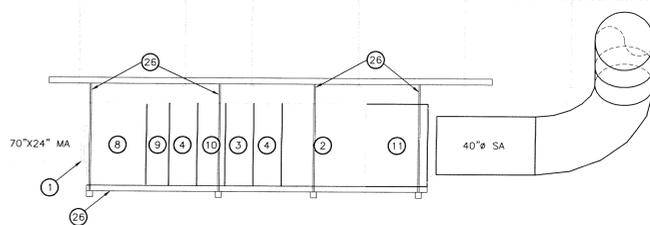
AIR HANDLING UNIT SECTION 355

SCALE: 1/4" = 1'-0"



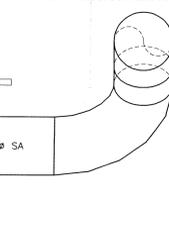
AIR HANDLING UNIT SECTION 356

SCALE: 1/4" = 1'-0"



AIR HANDLING UNIT SECTION 357

SCALE: 1/4" = 1'-0"



AIR HANDLING UNIT SECTION 358

SCALE: 1/4" = 1'-0"