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 DIAGRAMS.
5. SEE SHEETS MD101 THROUGH MD106 FOR DEMOLITION DRAWINGS.

PLAN NOTES:

(1) 24"X12" EXHAUST GRILLE, 310 CFM.
(2) 6"X6" EXHAUST GRILLE, 60 CFM.
(3) 6"X6" EXHAUST GRILLE, 75 CFM.
(4) 24"X12" EXHAUST GRILLE, 240 CFM.
(5) 6"X6" EXHAUST GRILLE, 110 CFM.
(6) 24"X12" EXHAUST GRILLE, 290 CFM.
(7) 16"X10" EXHAUST DUCT UP. SEE SHEET M-102 FOR CONTINUATION.
(8) 20"X14" EXHAUST DUCT UP. SEE SHEET M-102 FOR CONTINUATION
(9) 24"X12" RETURN AIR GRILL IN CEILING AND OPEN TO RETURN AIR PLENUM.
(10) 24"X24" RETURN AIR GRILL IN CEILING AND OPEN TO RETURN AIR PLENUM.
(11) SEE SHEET M-401 FOR CONTINUATION.
(12) 24"X12" TRANSFER AIR GRILLE. CONNECT TO 16"X8" (LINED) TRANSFER AIR ELBOW AND DUCT. STUB DUCT THRU WALL ABOVE FINISHED CEILING AS INDICATED.
(13) 12"X8" (LINED) TRANSFER AIR DUCT UP THRU WALL ABOVE CEILING.
(14) 2"S&R, 2 1/2"CH&CHR UP. SEE SHEET M-401 FOR CONTINUATION.
(15) 12"X8" SIDEWALL HEAVY DUTY TRANSFER AIR GRILLE. INSTALL GRILL 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.
(16) 12"X8" SIDEWALL HEAVY DUTY TRANSFER AND 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.
(17) 24"X24" EXHAUST DUCT UP THRU ROOF TO EXHAUST FAN EF-A1.
(18) 24"X12" EXHAUST GRILLE, 370 CFM.
(19) 24"X12" EXHAUST GRILLE, 310 CFM.
(20) 12"X6" EXHAUST GRILLE, 175 CFM.
(21) 24"X12" EXHAUST GRILLE, 500 CFM.
(22) STACK 24"X14" (ABOVE) AND 18"X8" (BELOW) EXHAUST DUCTS.
(23) 12"X12" EXHAUST DUCT UP THRU ROOF TO EXHAUST FAN EF-A2.
(24) O.A. INTAKE LOUVER BY THE G.C.
(25) 2 1/2"S&R, 8"CH&CHR SEE SHEET M-103 FOR CONTINUATION.
(26) TEMPERATURE CONTROL PANEL (AHU-A2).
(27) VARIABLE FREQUENCY DRIVE (AHU-A2).
(28) 1 1/2"S&R TO HEATING COIL AND RE-HEAT COIL.

SI.15
(29) NOT USED.
(30) NOT USED.
(31) NOT USED.
(32) EXISTING GYM UNDERFLOOR VENTILATION TRENCH.
(33) 1 1/2"S&R AND 2"CH&CHR UP. SEE SHEET M-401 FOR CONTINUATION.
(34) SEE SHEET M-103 FOR CONTINUATION.

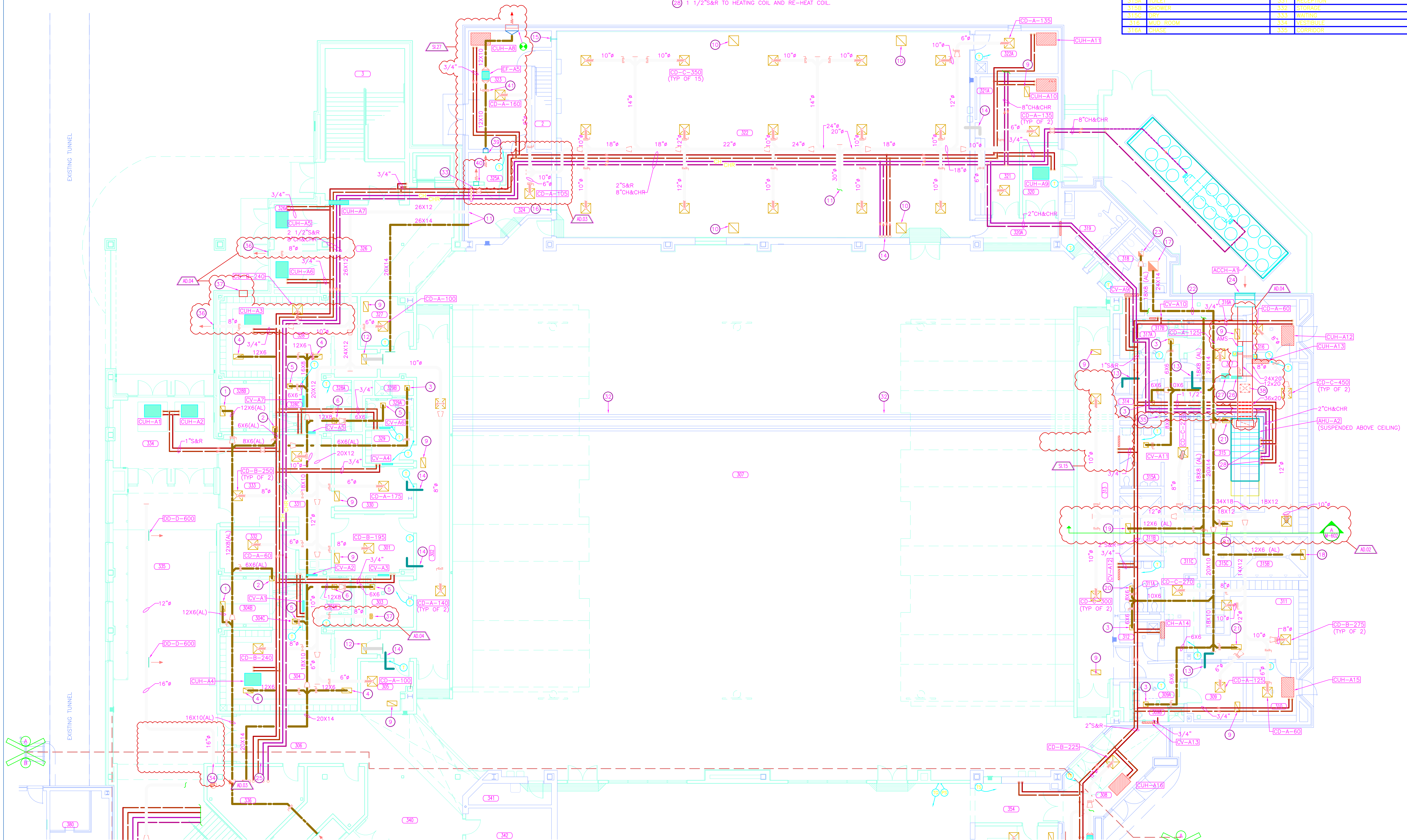
AD.03
(35) TERMINATE 1" CONDENSATE 6" ABOVE MOP SINK.

AD.04
(36) 10"X6" SUPPLY GRILLE, 200 CFM. GRILLE SHALL BE MOUNTED ABOVE CEILING AND DISCHARGE INTO CAVITY BELOW BALCONY.
(37) 20"X6" TRANSFER AIR GRILLE. GRILLE SHALL BE MOUNTED ABOVE CEILING AND TRANSFER AIR FROM CAVITY BELOW BALCONY.
(38) 24"X20" RA OPENING ON BOTTOMN OF DUCT WITH TEMPERATURE CONTROL DAMPER.

SI.27
(39) 12"X12" EXHAUST GRILLE WITH FIRE DAMPER, 650 CFM.
(40) 12"X12" TRANSFER AIR GRILLE ON EACH SIDE OF WALL. CONNECT WITH SHEETMETAL SLEEVE AND FIRE DAMPER.
(41) ADJUST VOLUME DAMPER, AS NEEDED, TO MAINTAIN A MINIMUM SYSTEM STATIC PRESSURE 0.625" WC.

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



UNIT "A" MECHANICAL FIRST FLOOR PLAN

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

PLAN NORTH

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

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
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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	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

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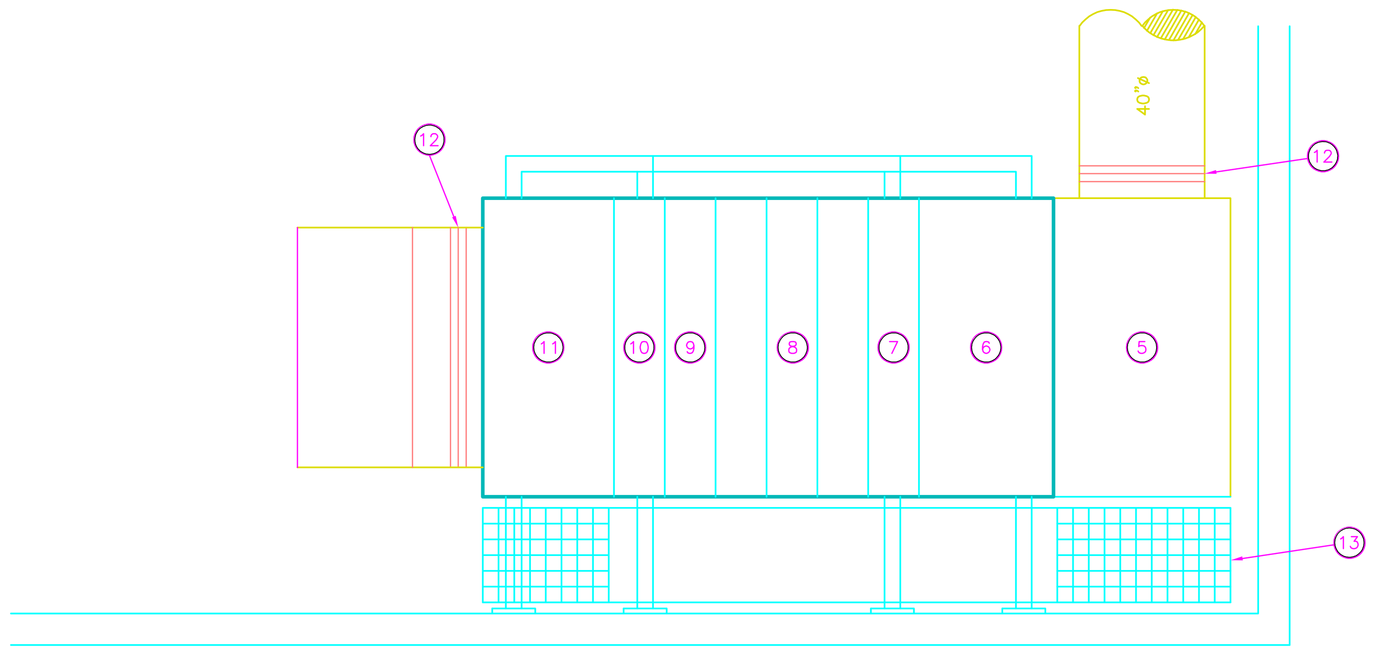
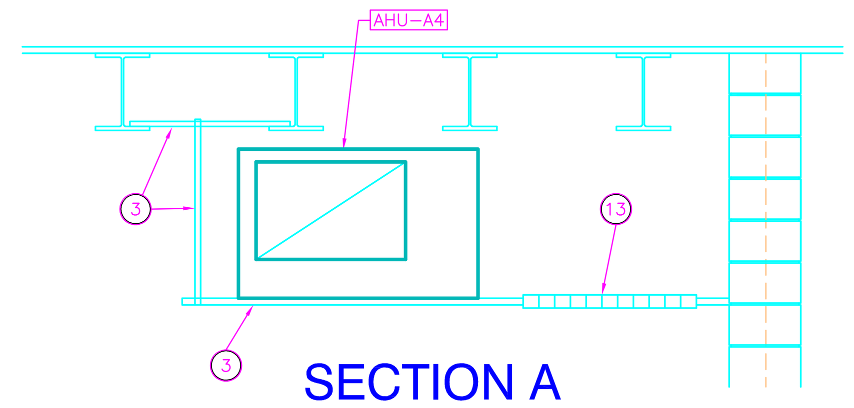
A

SHEET
M-101



PARTIAL PLAN

SCALE: NONE



SECTION A

SCALE: NONE

GENERAL NOTES:

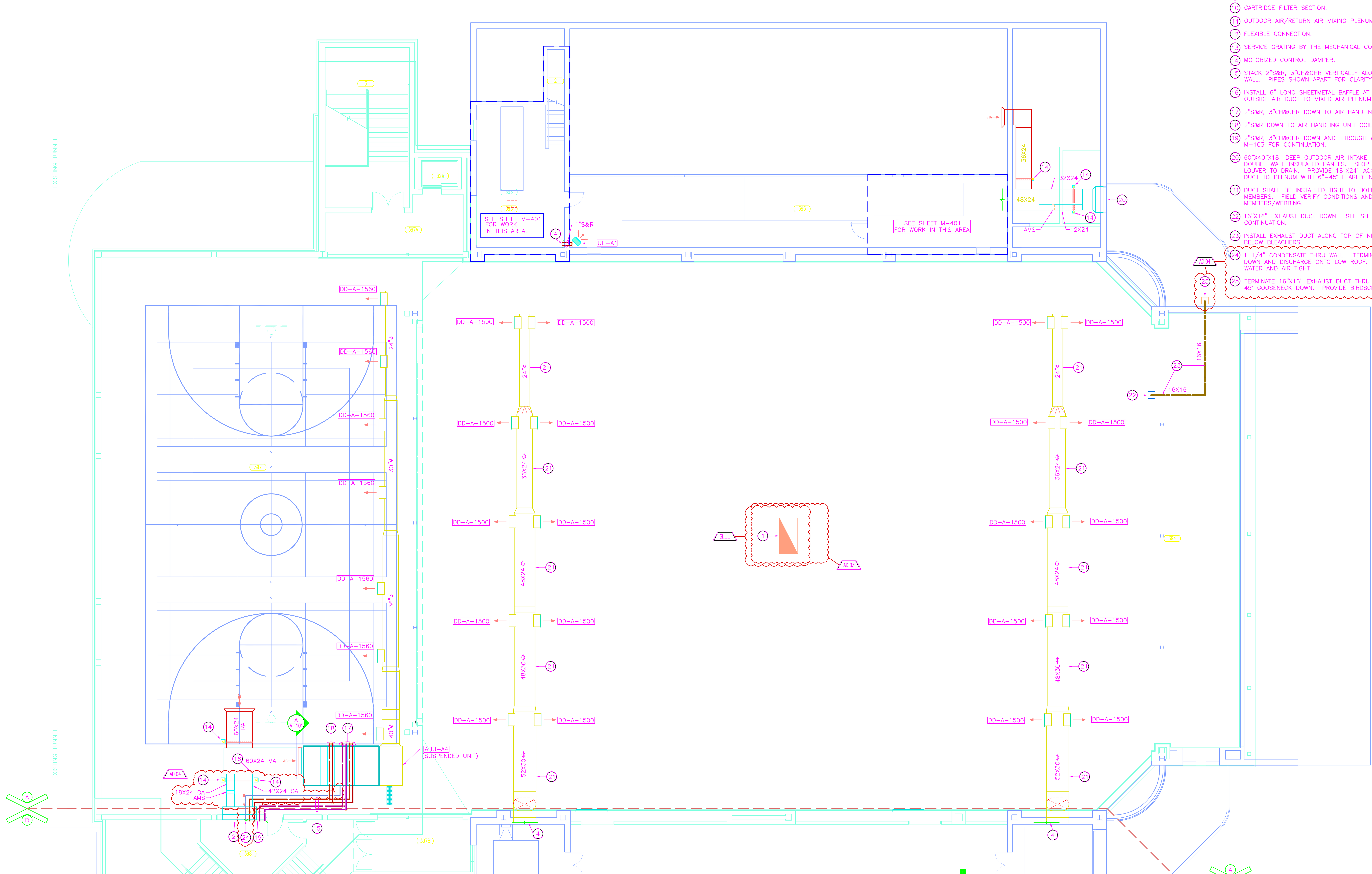
1. SEE SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL MECHANICAL NOTES.
2. SEE SHEETS M-501 AND M-502 FOR MECHANICAL DETAILS.
3. SEE SHEETS M-601 AND M-602 FOR MECHANICAL EQUIPMENT SCHEDULES.
4. SEE SHEETS M-801 AND M-802 FOR MECHANICAL TEMPERATURE CONTROL DIAGRAMS.
5. SEE SHEETS MD101 THROUGH MD106 FOR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

PLAN NOTES:

1. 42"X83" RELIEF OPENING UP TO EXISTING LOUVER PENTHOUSE ON ROOF. SEE GYM RELIEF DETAIL (THIS SHEET) FOR DETAILS.
2. 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.
3. MECHANICAL CONTRACTOR TO PROVIDE STRUCTURAL SUPPORTS AS REQUIRED TO SUSPEND AIR HANDLING UNIT FROM BUILDING ROOF STRUCTURE ABOVE.
4. SEE SHEET M-401 FOR CONTINUATION.
5. SHEET METAL SUPPLY PLENUM.
6. FAN SECTION.
7. PREHEAT COIL.
8. COOLING COIL.
9. PREHEAT COIL.
10. CARTRIDGE FILTER SECTION.
11. OUTDOOR AIR/RETURN AIR MIXING PLENUM.
12. FLEXIBLE CONNECTION.
13. SERVICE GRATING BY THE MECHANICAL CONTRACTOR.
14. MOTORIZED CONTROL DAMPER.
15. STACK 2"S&R, 3"CH&CHR VERTICALLY ALONG INTERIOR FACE OF WALL. PIPES SHOWN APART FOR CLARITY.
16. INSTALL 6" LONG SHEETMETAL BAFFLE AT CONNECTION OF OUTSIDE AIR DUCT TO MIXED AIR PLENUM.
17. 2"S&R, 3"CH&CHR DOWN TO AIR HANDLING UNIT COIL.
18. 2"S&R DOWN TO AIR HANDLING UNIT COIL.
19. 2"S&R, 3"CH&CHR DOWN AND THROUGH WALL. SEE SHEET M-103 FOR CONTINUATION.
20. 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.
21. DUCT SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS. FIELD VERIFY CONDITIONS AND STRUCTURAL MEMBERS/WEBBING.
22. 16"X16" EXHAUST DUCT DOWN. SEE SHEET M-101 FOR CONTINUATION.
23. INSTALL EXHAUST DUCT ALONG TOP OF NEW STRUCTURAL SLAB, BELOW BLEACHERS.
24. 1 1/4" CONDENSATE THRU WALL. TERMINATE WITH A 90° ELBOW DOWN AND DISCHARGE ONTO LOW ROOF. SEAL PENETRATIONS WATER AND AIR TIGHT.
25. TERMINATE 16"X16" EXHAUST DUCT THRU EXTERIOR WALL WITH 45° GOOSENECK DOWN. PROVIDE BIRDSCREEN OVER OPENING.

ROOM NAME SCHEDULE

NO	NAME
2	STAIR
3	STAIR
325	ELEVATOR
394	BALCONY
395	MECHANICAL
396	MECHANICAL
397	BALCONY
397A	ALCOVE



UNIT "A" MECHANICAL SECOND FLOOR PLAN

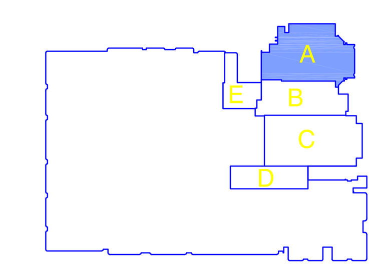
SCALE: 1/8" = 1'-0"

PLAN NORTH

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

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

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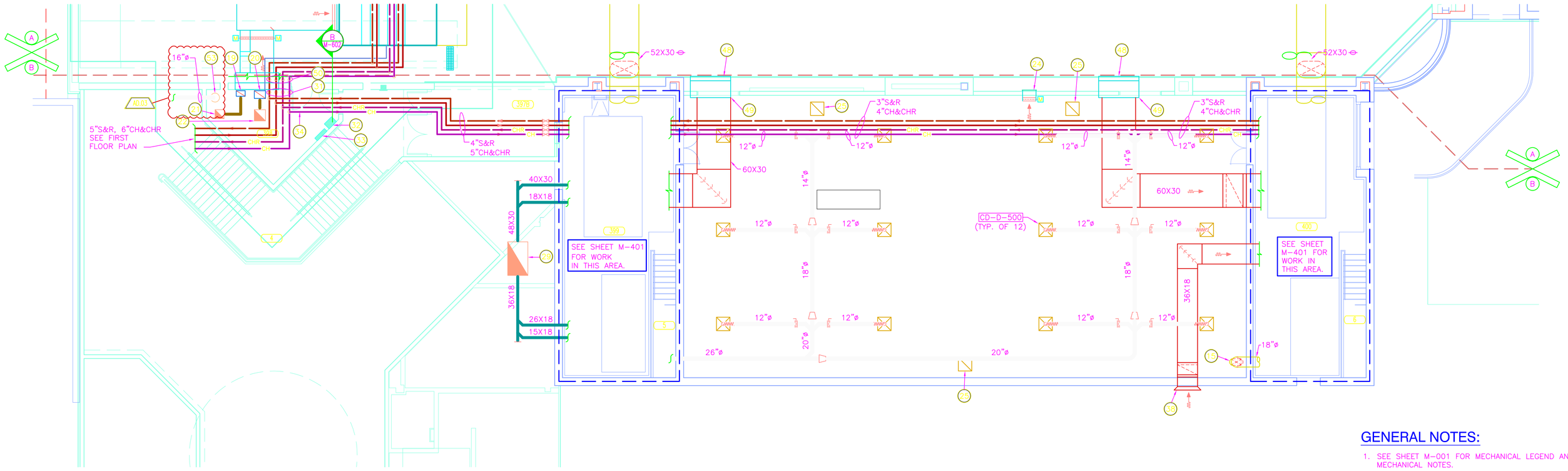
REVISIONS

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

UNIT "A" MECHANICAL SECOND FLOOR PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

DRAWING AREA: A
SHEET: M-102



UNIT "B" MECHANICAL SECOND FLOOR PLAN

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

GENERAL NOTES:

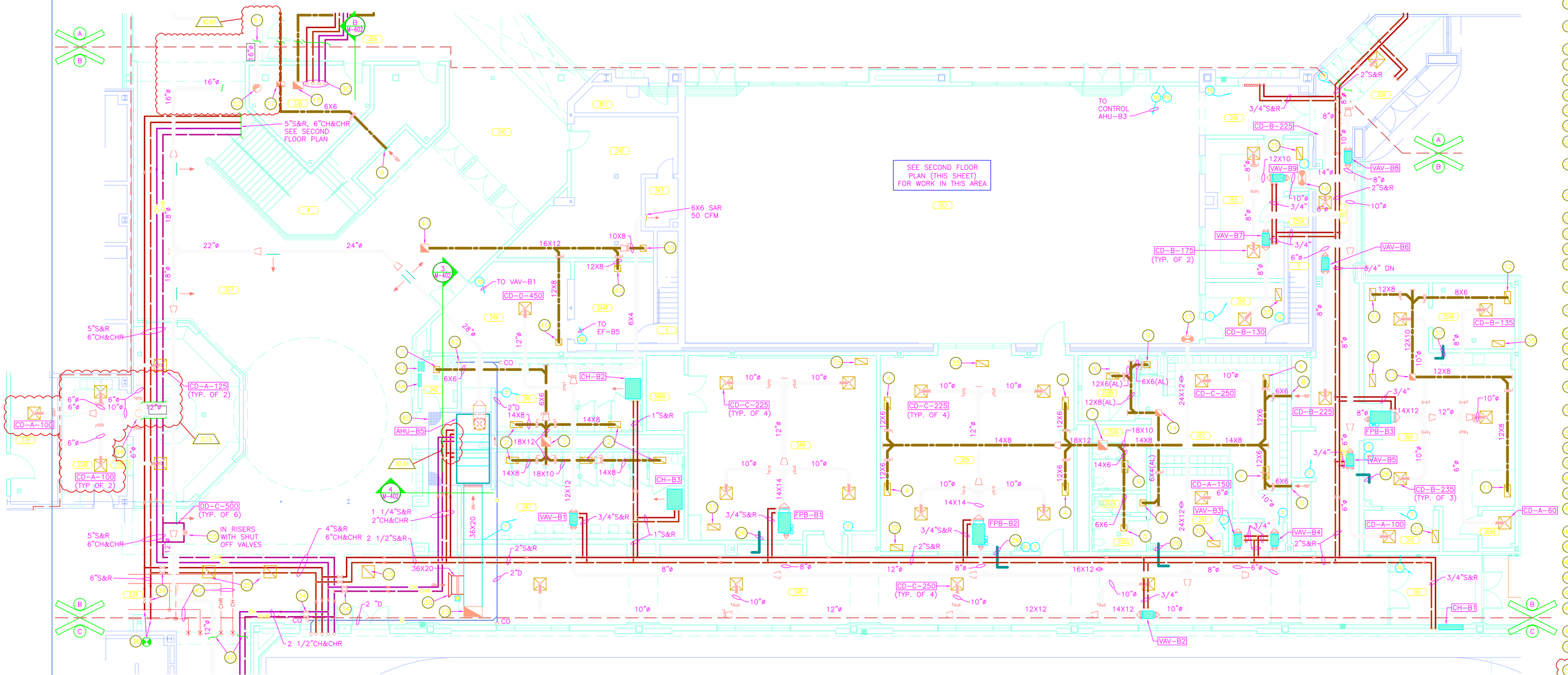
1. SEE SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL MECHANICAL NOTES.
2. SEE SHEETS M-501 AND M-502 FOR MECHANICAL DETAILS.
3. SEE SHEETS M-601 AND M-602 FOR MECHANICAL EQUIPMENT SCHEDULES.
4. SEE SHEETS M-801 AND M-802 FOR MECHANICAL TEMPERATURE CONTROL DIAGRAMS.
5. SEE SHEETS MD101 THROUGH MD106 FOR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

ROOM NAME SCHEDULE

NO.	NAME
4	STAIR
5	STAIR
6	STAIR
336	STORAGE
337	CORRIDOR
338	CONCESSION
338A	PREPARATION
339	CORRIDOR
340	CORRIDOR
341	CUSTODIAN
342	STORAGE
343	STORAGE
344	ELECTRICAL
344A	ELECTRICAL
345	CORRIDOR
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	CORRIDOR
355A	ELECTRICAL
356	OFFICE
357	CORRIDOR
358	CORRIDOR
359	TRAINER
359A	TOILET ROOM
359B	STORAGE
360	OFFICE
361	VESTIBULE
376	STORAGE
397B	ALCOVE
398	STORAGE
399	MECHANICAL
400	MECHANICAL

PLAN NOTES:

1. 6"X6" EXHAUST GRILLE, 115 CFM.
2. 24"X12" EXHAUST GRILLE, 435 CFM.
3. 18"X18" EXHAUST DUCT UP THRU ROOF TO EF-B1.
4. 24"X12" EXHAUST GRILLE, 250 CFM.
5. 12"X6" EXHAUST GRILLE, 100 CFM.
6. 24"X12" EXHAUST GRILLE, 190 CFM.
7. 18"X18" EXHAUST DUCT UP THRU ROOF TO EF-B3.
8. 6"X6" EXHAUST GRILLE, 75 CFM.
9. 6"X6" EXHAUST GRILLE, 50 CFM.
10. 24"X12" EXHAUST GRILLE, 300 CFM.
11. 24"X12" EXHAUST GRILLE, 385 CFM.
12. 12"X6" EXHAUST GRILLE, 150 CFM.
13. 12"X12" EXHAUST DUCT UP THRU ROOF TO EF-B4.
14. 12"X12" EXHAUST DUCT UP THRU ROOF TO EF-B2.
15. 24"X12"⊕ SUPPLY DUCT UP. SEE SECOND FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
16. 14"X12"⊕ SUPPLY DUCT UP. SEE SECOND FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
17. 16"X10" EXHAUST DUCT UP.
18. 20"X14" EXHAUST DUCT UP.
19. 16"X10" EXHAUST DUCT DOWN.
20. 20"X14" EXHAUST DUCT DOWN.
21. 16"X16" EXHAUST DUCT UP THRU ROOF TO EF-A4.
22. 20"X20" EXHAUST DUCT UP THRU ROOF TO EF-A3.
23. 36"X20" OUTDOOR AIR INTAKE PLENUM UP THRU ROOF TO INTAKE GRAVITY VENTILATOR ON ROOF.
24. 24"X24" RELIEF GRILLE IN WALL AND 24"X24" DUCT TO MOTORIZED RELIEF DAMPER. INSTALL GRILLE AND DUCT AT 16'-0" ABOVE FINISHED FLOOR.
25. 24"X24" EGGCRATE RETURN AIR GRILLE IN LAY-IN CEILING AND OPEN TO CEILING PLENUM.
26. 24"X12" TRANSFER AIR DUCT THRU WALL, SEE DETAIL.
27. EXISTING CABINET HEATER, PROVIDE NEW PIPING.
28. EXISTING CONVECTOR, PROVIDE NEW PIPING.
29. 60"X36" DUCT UP TO 60"X36"X48" HIGH OUTDOOR AIR INTAKE PENTHOUSE ON ROOF.
30. 2 1/2"S&R, 8"CH&CHR UP, SEE SECOND FLOOR PLAN THIS SHEET.
31. 2 1/2"S&R, 8"CH&CHR DOWN, SEE FIRST FLOOR PLAN THIS SHEET.
32. VARIABLE FREQUENCY DRIVE, AHU-A5.
33. TEMPERATURE CONTROL PANEL, AHU-A5.
34. PROVIDE SHUT-OFF VALVES IN PIPING MAINS AT THIS LOCATION.
35. 24"X12" EGGCRATE RETURN AIR GRILLE IN LAY-IN CEILING AND OPEN TO CEILING PLENUM.
36. CONNECT NEW 6"S&R TO EXISTING 10" MAINS AT THIS LOCATION.
37. 12"X12" TRANSFER AIR DUCT THRU WALL, SEE DETAIL.
38. PROVIDE 6" LONG, 45° FLARED RETURN AIR INLET.
39. 12"X10" EXHAUST GRILLE, 300 CFM.
40. 12"X12" EXHAUST GRILLE, 500 CFM.
41. 16"X16" EXHAUST DUCT UP THRU ROOF TO EF-B5.
42. 2" CONDENSATE DRAIN DOWN, TERMINATE 6" ABOVE MOP SINK BASIN.
43. VARIABLE FREQUENCY DRIVE, AHU-B5.
44. TEMPERATURE CONTROL PANEL, AHU-B5.
45. SERVICE GRATING BY THE MECHANICAL CONTRACTOR.
46. 2 1/2"CH&CHR, SEE SHEET M-106 FOR CONTINUATION.
47. EXISTING PIPING TO REMAIN.
48. 6'-4" X 5'-4" RETURN AIR GRILLE. SEE ARCHITECTURAL PLANS FOR DETIALS.
49. 6'-4 X 5'-4" X 2'-6" DEEP RETURN AIR PLENUM.
50. 2"S&R, 3"CH&CHR UP. SEE SHEET M-102 FOR CONTINUATION.
51. SEE SHEET M-101 FOR CONTINUATION.
52. 16"ø SUPPLY UP. SEE SECOND FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
53. 16"ø SUPPLY DOWN. SEE FIRST FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
54. 10"ø SUPPLY DUCT DOWN TO CONCESSION AREA.
55. TEMPORARY BYPASS VALVE.



UNIT "B" MECHANICAL FIRST FLOOR PLAN

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

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

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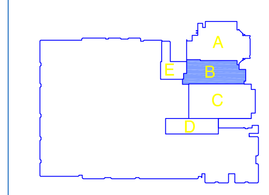
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



KEY PLAN

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

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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.

DRAWING
UNIT "B" MECHANICAL FIRST AND SECOND FLOOR PLANS

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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SHEET
B
M-103

Tue, 8/07/2018 - 4:44 pm
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GENERAL NOTES:

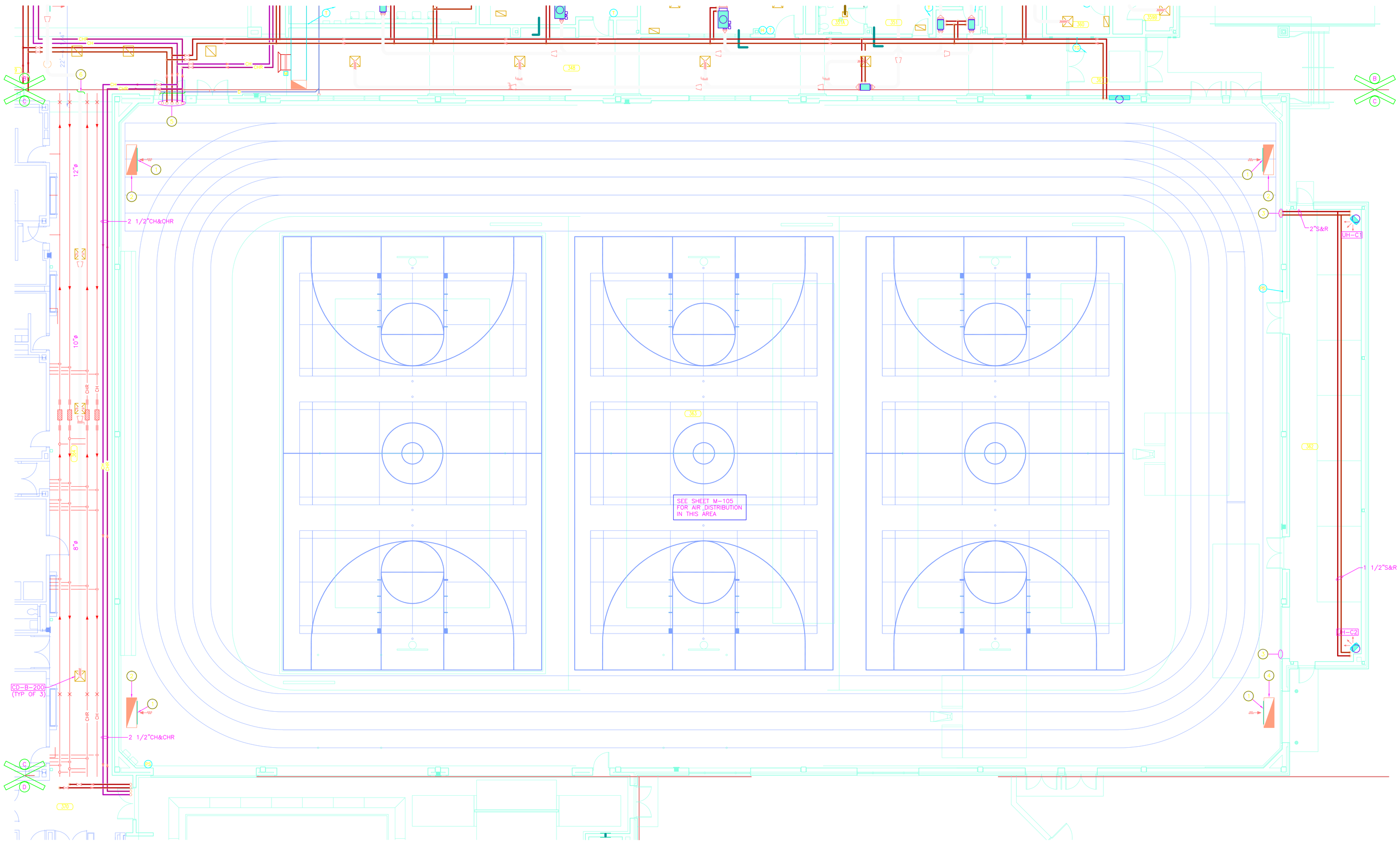
1. SEE SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL MECHANICAL NOTES.
2. SEE SHEETS M-501 AND M-502 FOR MECHANICAL DETAILS.
3. SEE SHEETS M-601 AND M-602 FOR MECHANICAL EQUIPMENT SCHEDULES.
4. SEE SHEETS M-801 AND M-802 FOR MECHANICAL TEMPERATURE CONTROL DIAGRAMS.
5. SEE SHEETS MD101 THROUGH MD106 FOR 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
367	STORAGE
363	MULTI-PURPOSE GYMNASIUM
364	CORRIDOR



UNIT "C" MECHANICAL FIRST FLOOR PLAN

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

NORTH
PLAN NORTH

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

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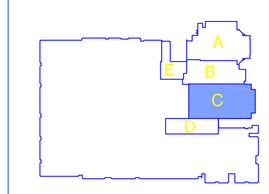
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



KEY PLAN

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PROJECT 06-612
DATE 03/19/07
COORDINATED BY RWN
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 FIRST FLOOR PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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SHEET
C
M-104

Tue, 8/07/2018 - 4:45 pm
M:\2018\2018-050.LCH\04-Design\4.1-Existing Drawings\Lawrence Central High School\2010 Project Record Document (CD)\GBI-2004-06-612M-104.dwg

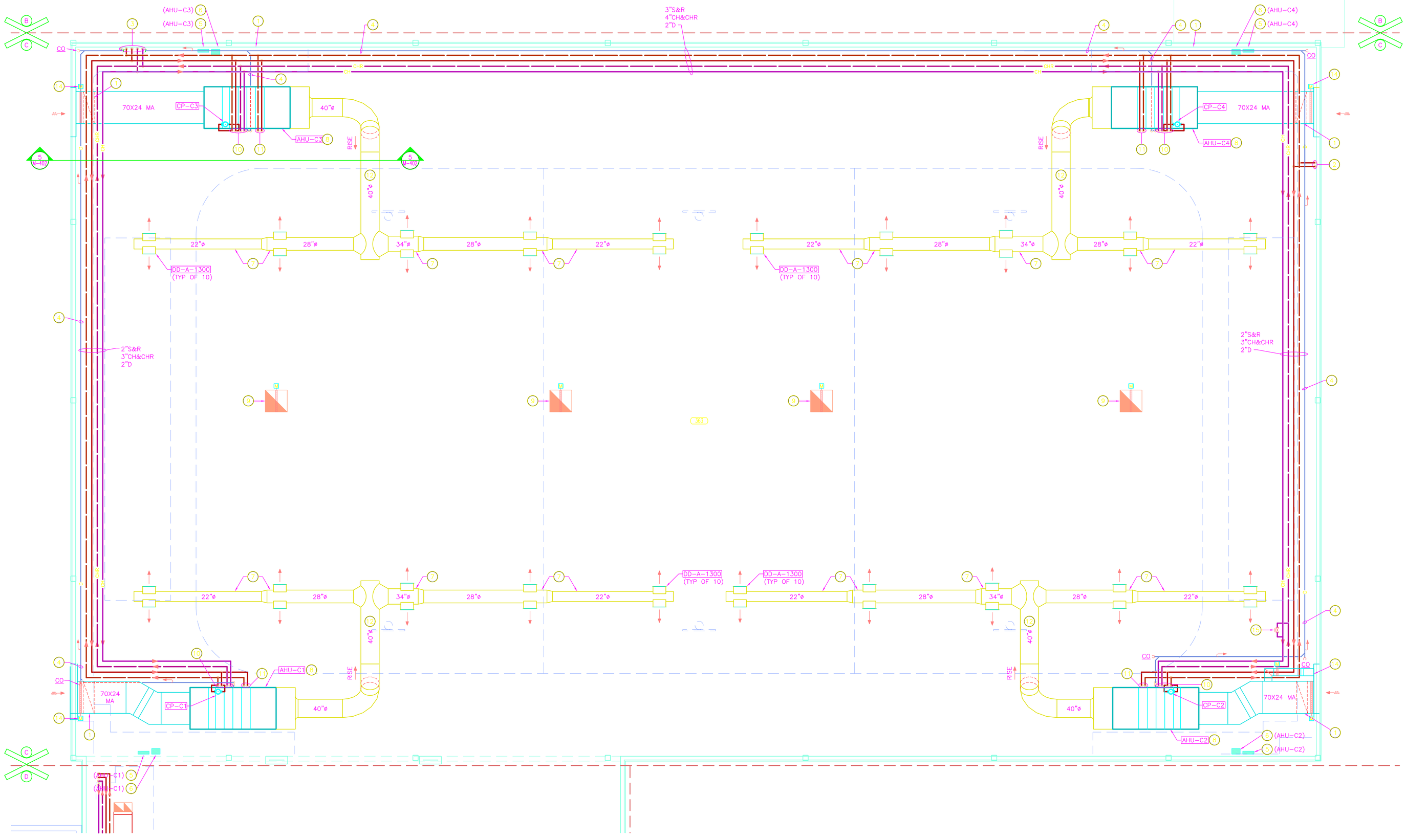
GENERAL NOTES:

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 DIAGRAMS.
5. SEE SHEETS MD101 THROUGH MD106 FOR DEMOLITION DRAWINGS.
6. ALL DUCT IN MULTI-PURPOSE GYM (363) SHALL BE 1" DOUBLE WALL INTERALLY INSULATED DUCT AND FITTINGS WITH EXTERIOR PAINT GRIP SURFACE.

PLAN NOTES:

1. 70"X24" RETURN AIR DUCT DOWN. SEE SHEET M-104 FOR CONTINUATION.
2. 2"S&R DOWN. SEE SHEET M-104 FOR CONTINUATION.
3. 4"S&R, 5"CH&CHR, 2"D DOWN. SEE SHEET M-104 FOR CONTINUATION.
4. INSTALL CONDENSATE DRAIN BELOW CATWALK.
5. AHU TEMPERATURE CONTROL PANEL (48" ABOVE CATWALK).
6. AHU VARIABLE FREQUENCY DRIVE (48" ABOVE CATWALK).
7. COORDINATE LOCATION AND SUPPORT OF DUCTWORK THRU TRUSS WEBBING WITH TRUSS MANUFACTURER.
8. 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.
9. 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.
10. 2" S&R, 3"CH&CHR DOWN TO AIR HANDLING UNIT COILS.
11. 2" S&R DOWN TO AIR HANDLING UNIT COIL.
12. DUCT SHALL BE INSTALLED UP BETWEEN STRUCTURAL MEMBERS. FIELD VERIFY CONDITIONS AND STRUCTURAL MEMBERS/WEBBING.
13. 4'-0" X 4'-0" X 1'-6" DEEP OUTDOOR INTAKE PLENUM. CONSTRUCT 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.
14. MOTORIZED CONTROL DAMPER.
15. 4" CHILLED WATER BYPASS LINE.

ROOM NAME SCHEDULE	
NO.	NAME
363	MULTI-PURPOSE/GYMNASIUM



UNIT "C" MECHANICAL SECOND FLOOR PLAN

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

NORTH
PLAN NORTH

GREINER BROTHERS INC.
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LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
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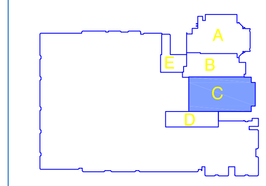

KEY PLAN

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DRAWING
UNIT "C" MECHANICAL SECOND FLOOR PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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SHEET
C
M-105

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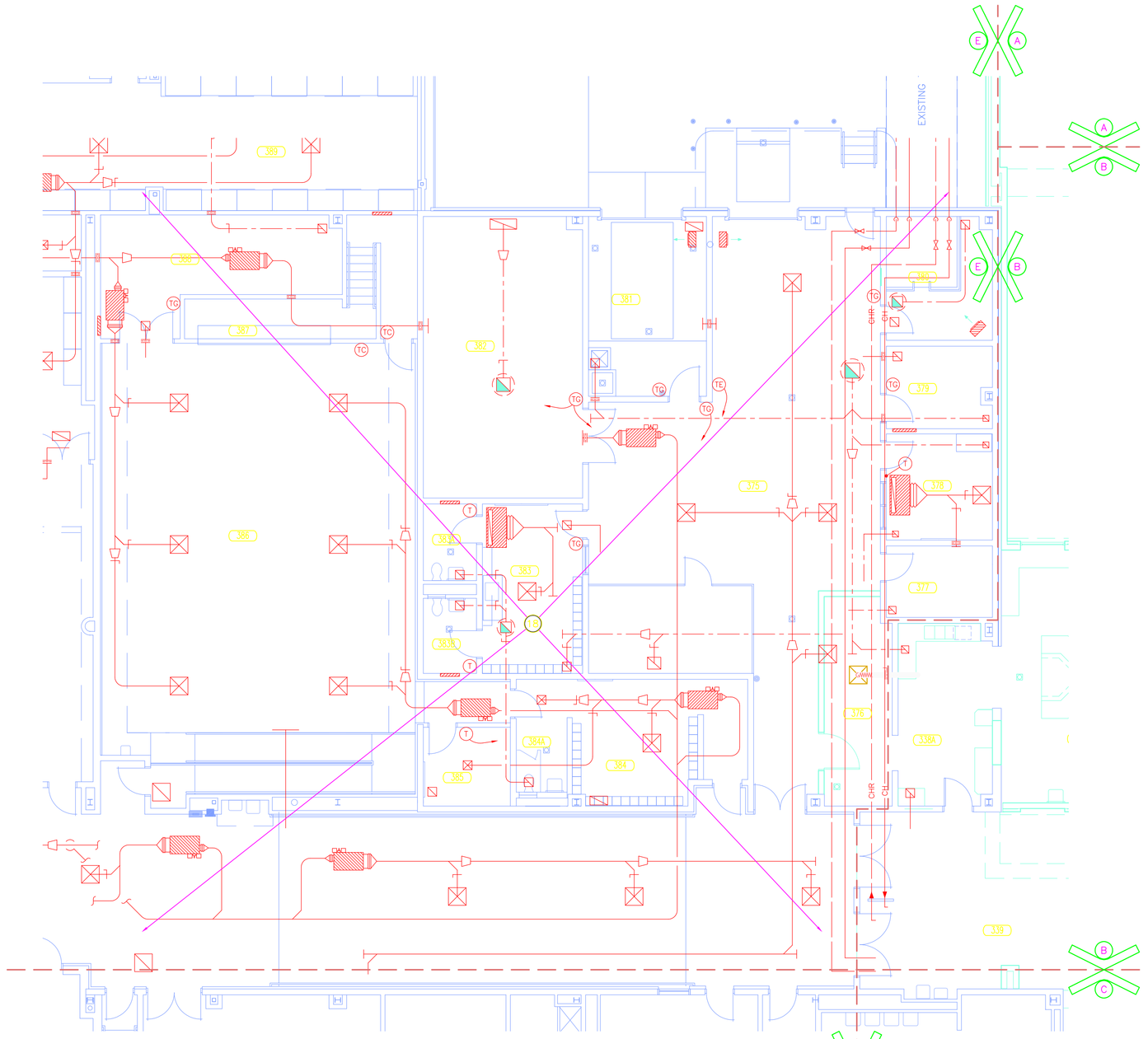
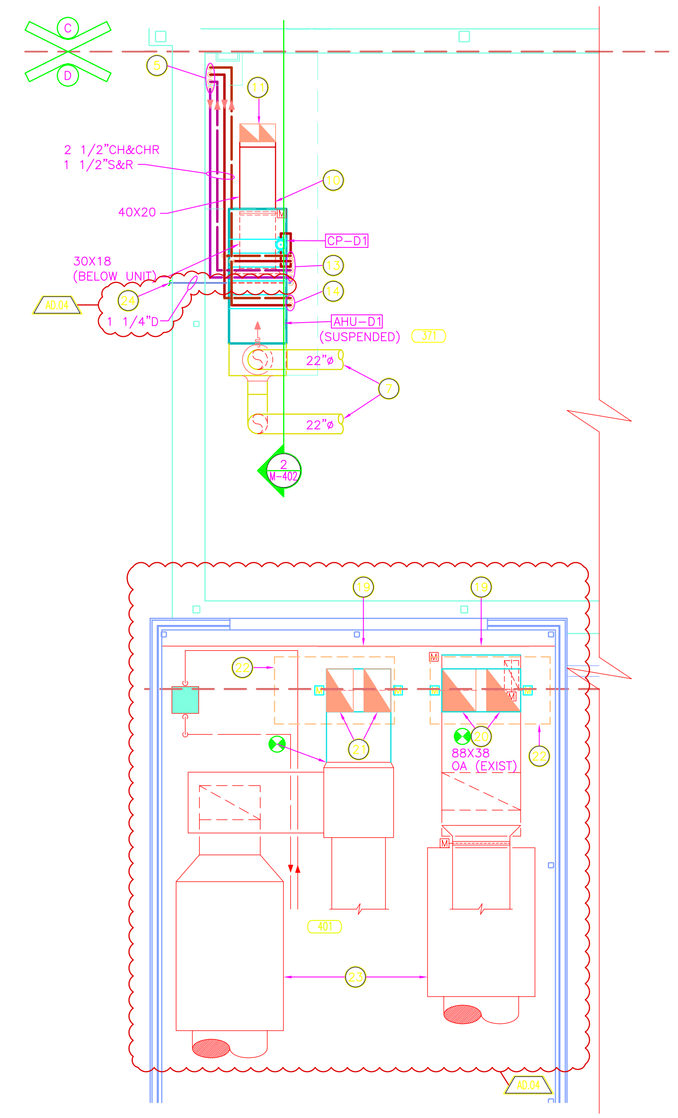


UNIT "E" MECHANICAL FIRST FLOOR PLAN

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

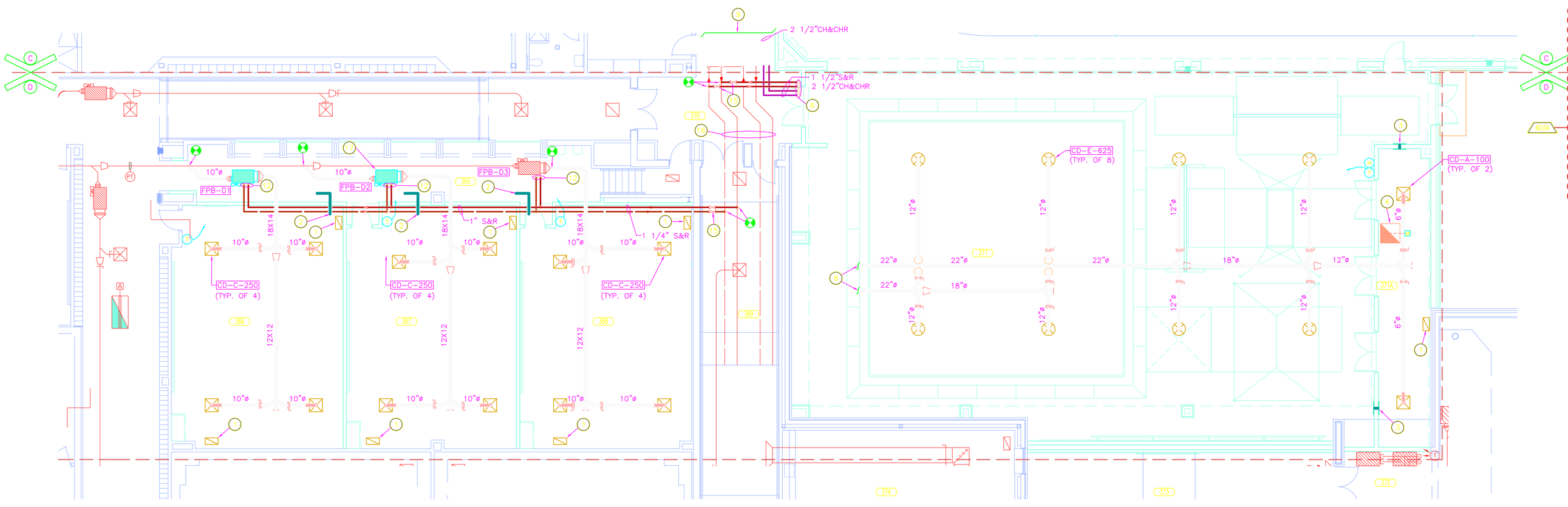
PLAN NORTH



UNIT "D" MECHANICAL SECOND FLOOR PLAN

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

PLAN NORTH



UNIT "D" MECHANICAL FIRST FLOOR PLAN

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

PLAN NORTH

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

ROOM NAME SCHEDULE

NO	NAME
365	CORRIDOR
366	CLASSROOM
367	CLASSROOM
368	CLASSROOM
369	CORRIDOR
370	CORRIDOR
371	GYMNASTICS
371A	STORAGE
375	RECORDING
376	STORAGE
377	TELECOM
378	OFFICE
379	STORAGE
380	SHOWOLER
381	COMPACTOR
382	ELECTRICAL
383	LOUNGE
383A	TOILET
383B	TOILET
384	LOUNGE
384A	TOILET
385	OFFICE
386	REHEARSAL
387	PLATFORM
388	STORAGE
389	UNIFORM
390	UNIFORM
391	PERCUSSION
392	LARGE INSTRUMENT
400	CHILLER
401	MECHANICAL

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 DIAGRAMS.
5. SEE SHEETS MD101 THROUGH MD106 FOR DEMOLITION DRAWINGS.

PLAN NOTES:

1. 24"X12" RETURN AIR GRILLE IN CEILING AND OPEN TO RETURN AIR PLENUM.
2. 24"X16" (LINED) TRANSFER AIR DUCT THRU WALL ABOVE CEILING.
3. 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.
4. 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 GYMNASTICS 370. SEE TYPICAL RELIEF VENT DETAIL.
5. 1 1/2"S&R AND 2 1/2"CH&CHR DOWN. SEE FIRST FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
6. 2 1/2"S&R AND 2 1/2"CH&CHR UP. SEE FIRST FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
7. SEE FIRST FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
8. SEE SECOND FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
9. SEE SHEET M-104 FOR CONTINUATION.
10. AIR MEASURING STATION.
11. 40"X20" OUTDOOR INTAKE DUCT UP THRU ROOF TO GRAVITY INTAKE HOOD.
12. 3/4"S&R PIPING DROP TO AIR TERMINAL UNIT.
13. 1 1/2"S&R, 2 1/2"CH&CHR DOWN TO AIR HANDLING UNIT COIL.
14. 1 1/2"S&R DOWN TO AIR HANDLING UNIT COIL.
15. INSTALL SHUT-OFF VALVES AT THIS LOCATION.
16. EXISTING PIPING MAINS TO REMAIN.
17. RELOCATED EXISTING FAN POWERED VAV TERMINAL.
18. NO WORK REQUIRED IN THIS AREA.
19. COVER HOLE IN EXISTING SHEETMETAL PLENUM WITH 1" DOUBLE WALL INSULATED PANEL.
20. 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.
21. 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.
22. NEW LOUVERED PENTHOUSE ON ROOF. SEE SHEET MR101 FOR INFORMATION.
23. EXISTING AIR HANDLING UNIT.
24. 1 1/4" CONDENSATE THRU WALL. TERMINATE WITH 90° ELBOW DOWN AND DISCHARGE ONTO LOW ROOF. SEAL PENETRATIONS WATER AND AIR TIGHT.

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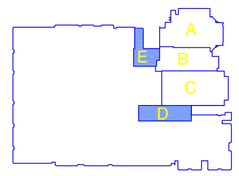
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

RENOVATIONS, ADDITIONS AND RELATED WORK

MSD OF LAWRENCE TOWNSHIP



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

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REVISIONS:

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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

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SHEET: D, E — M-106

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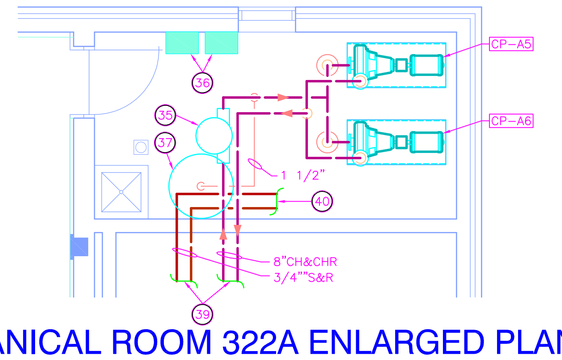
GENERAL NOTES:

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

PLAN NOTES:

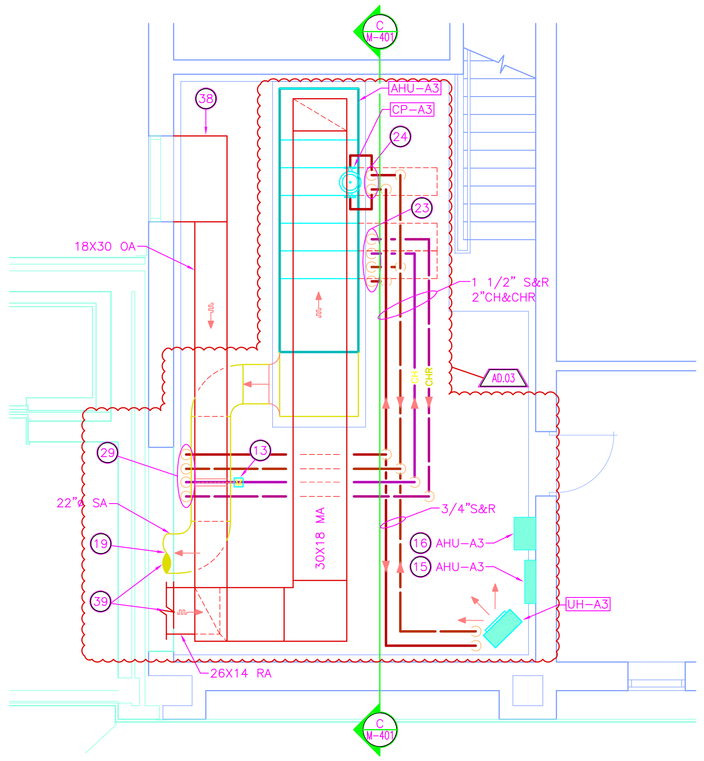
1. FLEXIBLE DUCT CONNECTION.
2. FAN SECTION WITH ACCESS DOOR AND INTERNAL VIBRATION ISOLATION MOTOR AND FAN ASSEMBLY.
3. COOLING COIL SECTION.
4. HEATING COIL SECTION.
5. ANGLED FILTER/MIXING SECTION WITH ACCESS DOOR.
6. TRAPPED CONDENSATE DRAIN, TERMINATE OVER NEAREST FLOOR DRAIN.
7. 4" CONCRETE HOUSEKEEPING PAD BY G.C.
8. MIXED AIR PLENUM (SIZE TO MATCH FILTER/MIXING BOX SECTION OPENING DIMENSIONS).
9. FLAT FILTER SECTION WITH ACCESS DOOR AND 4"-65% FILTERS.
10. BLANK SECTION WITH ACCESS DOORS.
11. SUPPLY AIR DISCHARGE PLENUM SECTION WITH ACCESS DOOR INTERIOR PLENUM WALL SHALL BE PERFORATED. PROVIDE GRATE OVER FLOOR OPENINGS. (FIELD CUT DUCT CONNECTIONS)
12. 8" BASE RAIL, PROVIDE BY THE AIR HANDLING UNIT MANUFACTURER.
13. MOTORIZED CONTROL DAMPER.
14. REHEAT COIL SECTION.
15. TEMPERATURE CONTROL PANEL.
16. VARIABLE FREQUENCY DRIVE.
17. AIR FLOW MEASURING STATION.
18. CONNECT SUPPLY AIR DUCT TO AIR HANDLING UNIT WITH A BELLMOUTH FITTING.
19. 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.
20. PROVIDE SHUT-OFF VALVES IN RISER PIPES.
21. EXISTING OUTDOOR AIR INTAKE LOUVER TO REMAIN.
22. 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.
23. 1 1/2"S&R, 2"CH&CHR DOWN TO AHU-A3.
24. 1 1/2"S&R DOWN TO AHU-A3.
25. 2 1/2"S&R, 4"CH&CHR DOWN TO AHU-B1.
26. 2"S&R DOWN TO AHU-B1.
27. 2 1/2"S&R, 4"CH&CHR DOWN TO AHU-B2.
28. 2"S&R DOWN TO AHU-B2.
29. 1 1/2"S&R, 2"CH&CHR DOWN THRU FLOOR, SEE SHEET M-101 FOR CONTINUATION.
30. SEE SHEET M-102 FOR CONTINUATION.
31. SEE SHEET M-103 FOR CONTINUATION.
32. 2"S&R, 2 1/2"CH&CHR DOWN TO AHU-B3.
33. 54"X30" OUTSIDE AIR DUCT UP THRU ROOF TO INTAKE VENTILATOR.
34. PROVIDE 6" LONG, 45° FLARED RETURN AIR INLET FITTING.
35. CHILLED WATER SYSTEM AIR SEPARATOR.
36. VARIABLE FREQUENCY DRIVE FOR CIRCULATING PUMPS.
37. CHILLED WATER SYSTEM EXPANSION TANK.
38. 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.
39. SEE SHEET M-101 FOR CONTINUATION.
40. 3/4"S&R TO CUH-A11. SEE SHEET M-101 FOR CONTINUATION.

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



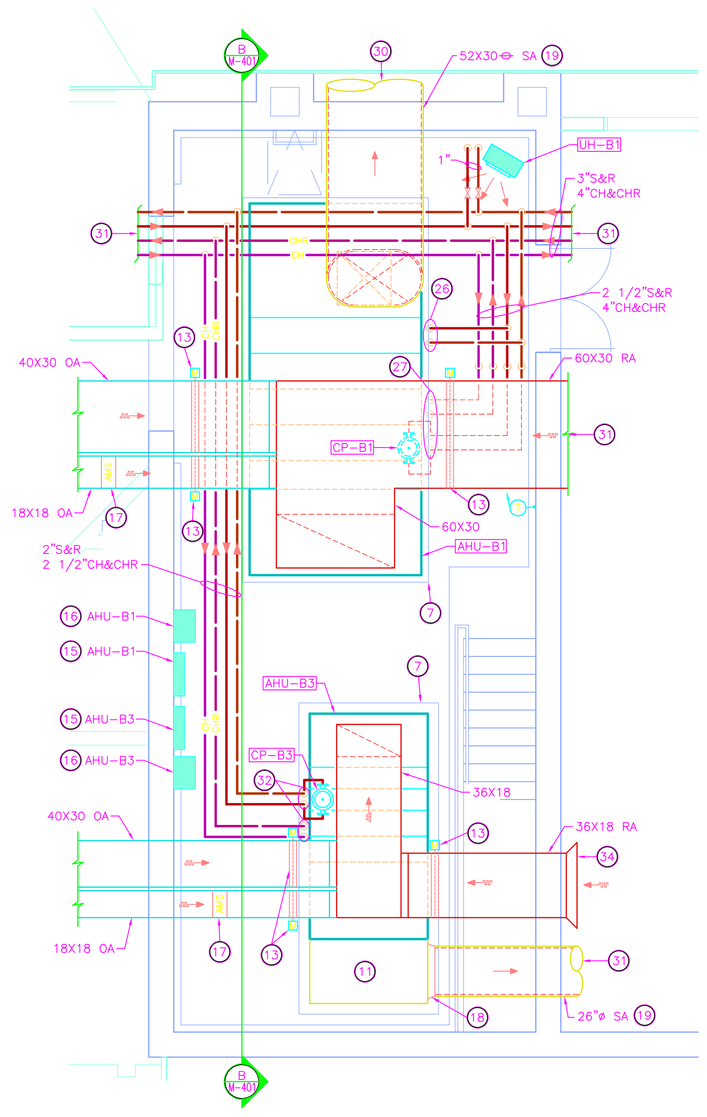
MECHANICAL ROOM 322A ENLARGED PLAN

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



MECHANICAL ROOM 396 ENLARGED PLAN

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



MECHANICAL ROOM 399 ENLARGED PLAN

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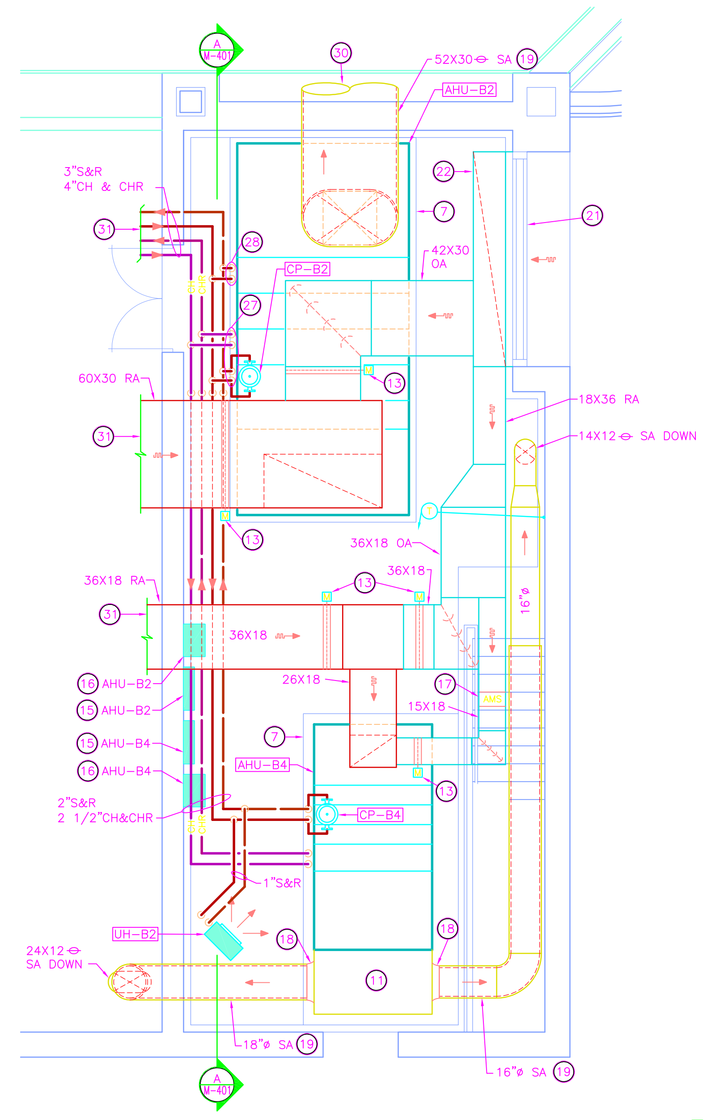
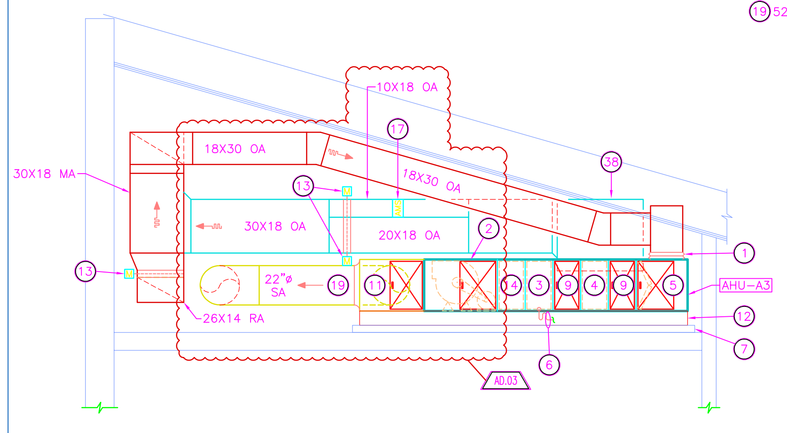


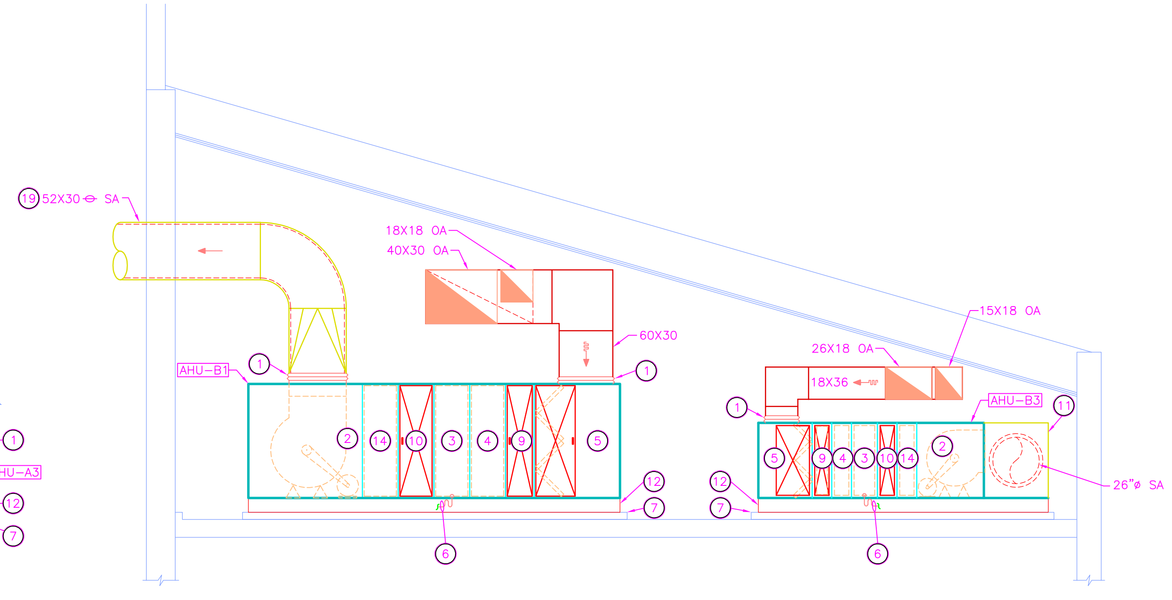
MECHANICAL ROOM 400 ENLARGED PLAN

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



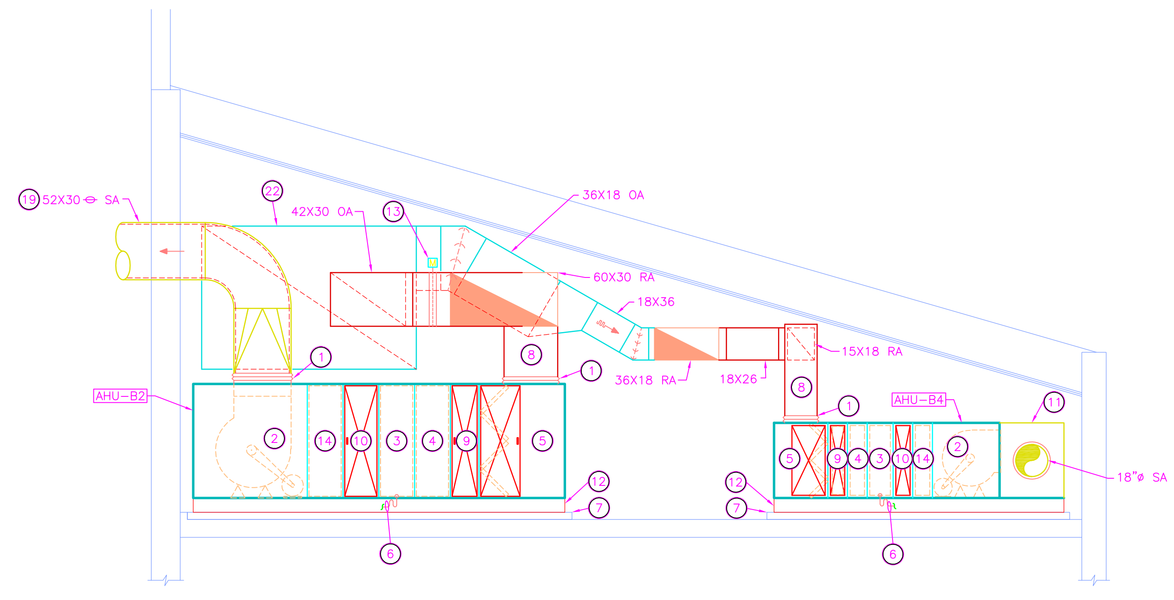
AIR HANDLING UNIT SECTION

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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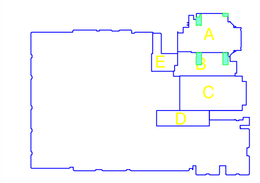

KEY PLAN

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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

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M-401

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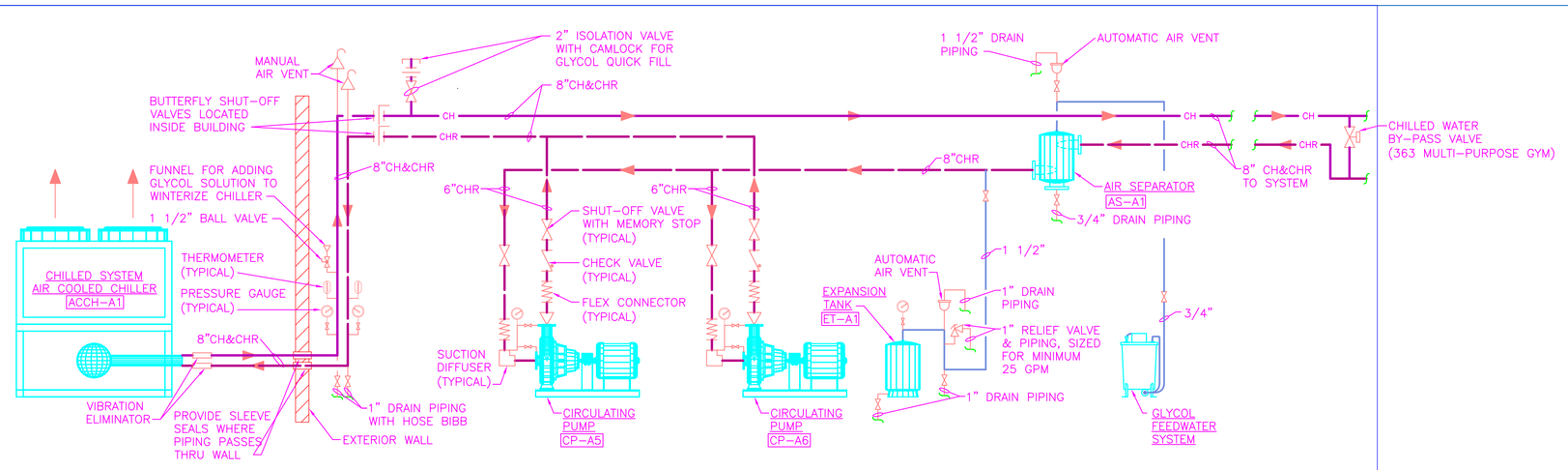
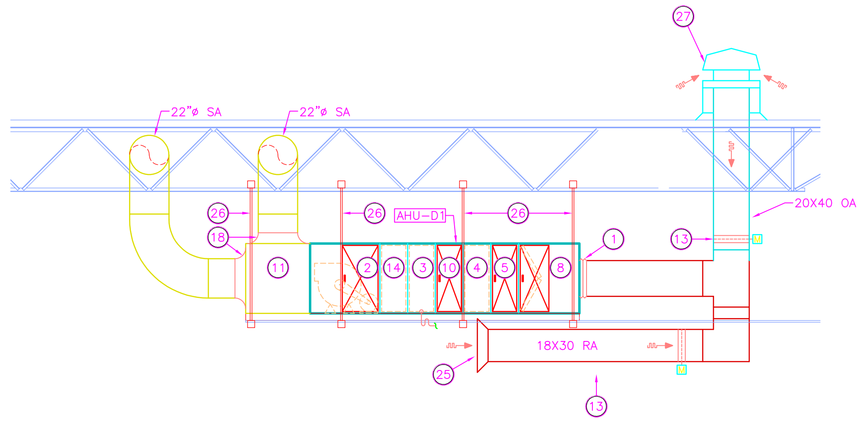


NOTES:

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

CHILLED WATER SYSTEM PIPING DIAGRAM

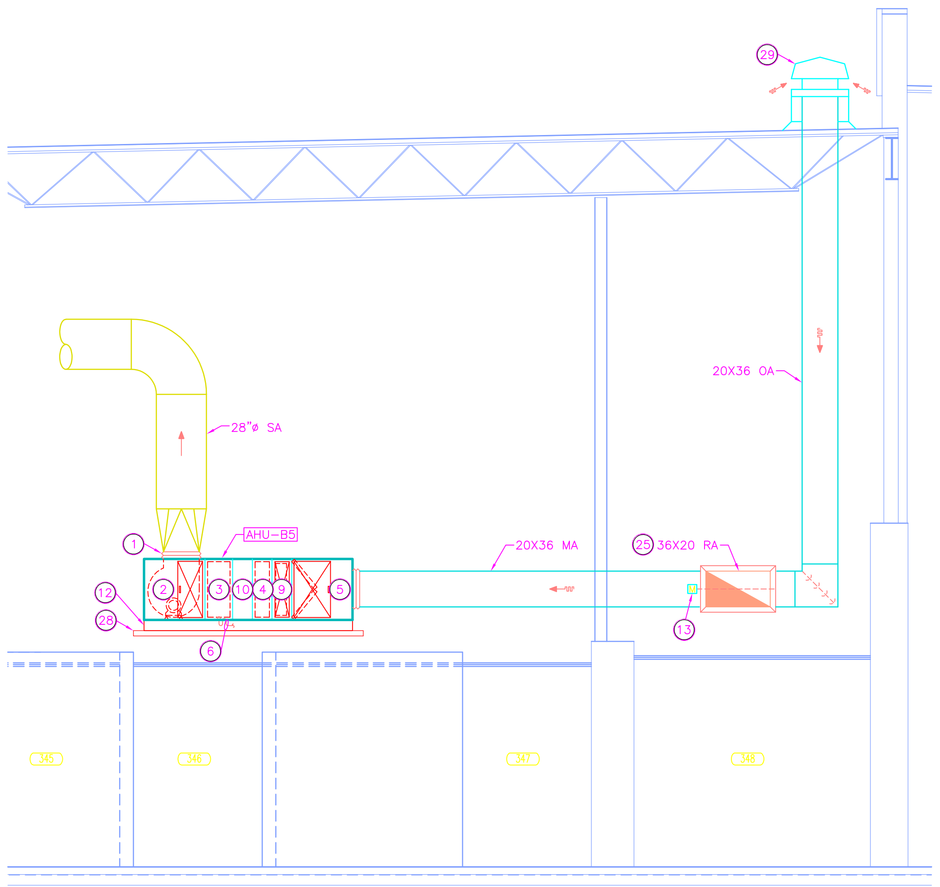
NOT TO SCALE (GLYCOL FEEDWATER SYTEM)



AIR HANDLING UNIT SECTION

1 M-402

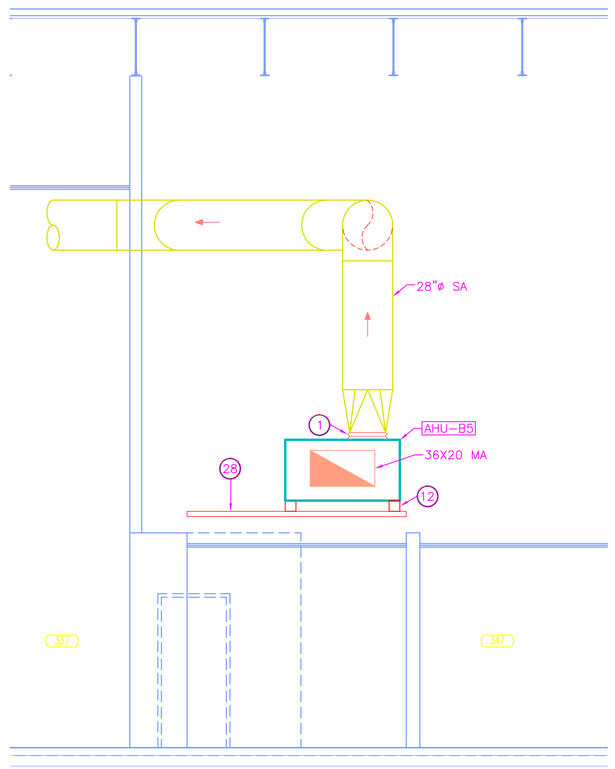
SCALE: 1/4" = 1'-0"



AIR HANDLING UNIT SECTION

3 M-402

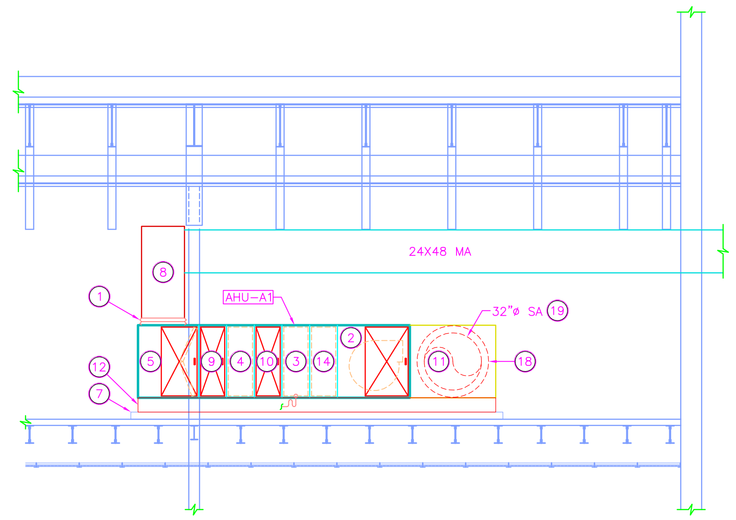
SCALE: 1/4" = 1'-0"



AIR HANDLING UNIT SECTION

4 M-402

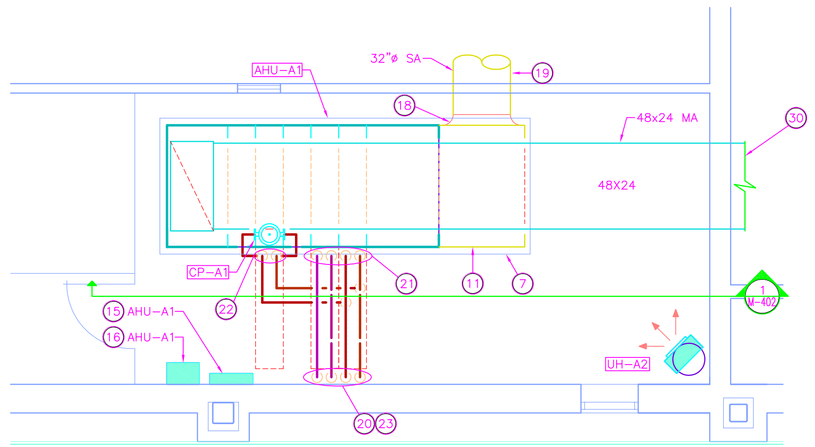
SCALE: 1/4" = 1'-0"



AIR HANDLING UNIT SECTION

2 M-402

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

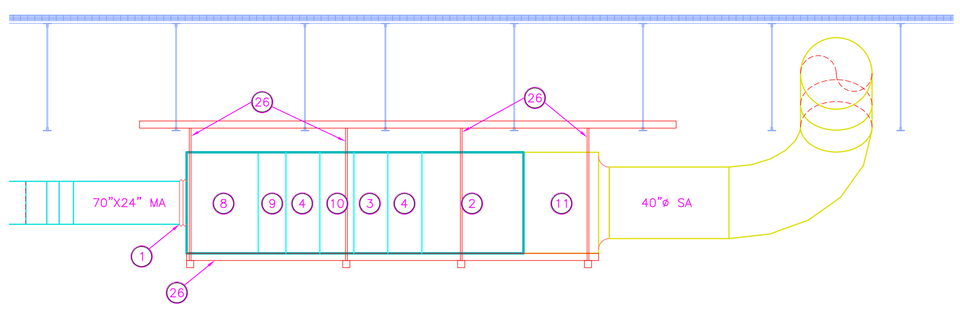


MECHANICAL ROOM 395 ENLARGED PLAN

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

NORTH

PLAN NORTH



AIR HANDLING UNIT SECTION

5 M-402

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

GENERAL NOTES:

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

PLAN NOTES:

1. FLEXIBLE DUCT CONNECTION.
2. FAN SECTION WITH ACCESS DOOR AND INTERNAL VIBRATION ISOLATION MOTOR AND FAN ASSEMBLY.
3. COOLING COIL SECTION.
4. HEATING COIL SECTION.
5. ANGLED FILTER/MIXING SECTION WITH ACCESS DOOR.
6. TRAPPED CONDENSATE DRAIN, TERMINATE OVER NEAREST FLOOR DRAIN.
7. 4" CONCRETE HOUSEKEEPING PAD BY G.C.
8. MIXED AIR PLENUM (SIZE TO MATCH FILTER/MIXING BOX SECTION OPENING DIMENSIONS).
9. FLAT FILTER SECTION WITH ACCESS DOOR AND 4"-65% FILTERS.
10. BLANK SECTION WITH ACCESS DOORS.
11. 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.
12. 8" BASE RAIL, PROVIDE BY THE AIR HANDLING UNIT MANUFACTURER.
13. MOTORIZED CONTROL DAMPER.
14. REHEAT COIL SECTION.
15. TEMPERATURE CONTROL PANEL.
16. VARIABLE FREQUENCY DRIVE.
17. AIR FLOW MEASURING STATION.
18. CONNECT SUPPLY AIR DUCT TO AIR HANDLING UNIT WITH A BELLMOUTH FITTING.
19. 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.
20. PROVIDE SHUT-OFF VALVES IN RISER PIPES.
21. 1 1/2"S&R, 2 1/2"CH&CHR DOWN TO AHU-A1.
22. 1 1/2"S&R DOWN TO AHU-A1.
23. 2"S&R, 2 1/2"CH&CHR DOWN THRU FLOOR, SEE SHEET M-101 FOR CONTINUATION.
24. 54"X30" OUTSIDE AIR DUCT UP THRU ROOF TO INTAKE VENTILATOR.
25. PROVIDE 6" LONG, 45° FLARED RETURN AIR INLET FITTING.
26. MECHANICAL CONTRACTOR TO PROVIDE STRUCTURAL SUPPORTS AS REQUIRED TO SUSPEND AIR HANDLING UNIT FROM BUILDING ROOF STRUCTURE ABOVE.
27. 50"X32" GRAVITY INTAKE VENTILATOR (42"X24" THROAT). SIMILAR TO GREENHECK GRI MODEL. INCLUDE BIRDSCREEN.
28. SERVICE GRATING BY THE MECHANICAL CONTRACTOR.
29. GRAVITY INTAKE VENTILATOR, SIMILAR TO GREENHECK GRI MODEL. INCLUDE BIRDSCREEN.

GREINER BROTHERS INC.
PROJECT RECORD DOCUMENT
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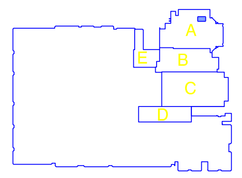
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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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DRAWING
MECHANICAL ROOM 395 ENLARGED PLAN AND MECHANICAL SECTIONS AND DIAGRAMS

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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SHEET
M-402

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GENERAL NOTES:

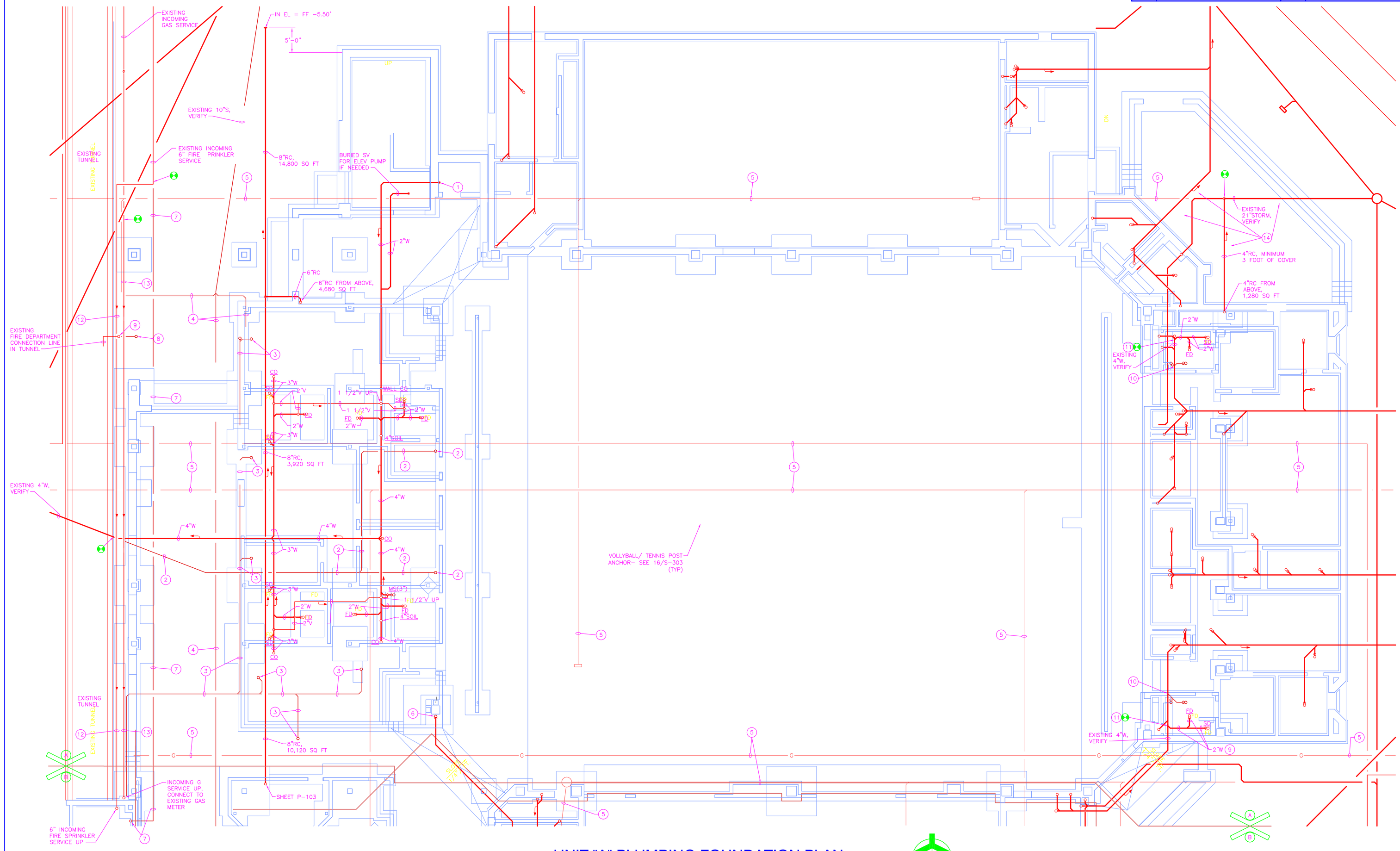
1. SEE SHEET P-001 FOR PLUMBING LEGEND, GENERAL NOTES AND SCHEDULES.
2. SEE SHEET P-501 FOR PLUMBING DETAILS.
3. SEE SHEET P-701 FOR PLUMBING DIAGRAMS AND ISOMETRICS.
4. PIPE SHOWN BUT NOT NOTED IS EXISTING AND SHALL REMAIN IN SERVICE.

PLAN NOTES:

1. STUB AND CAP 2"W INTO ELEVATOR SHAFT FOR EMERGENCY SUMP PUMP CONNECTION.
2. REMOVE EXISTING W PIPE.
3. REMOVE EXISTING CONDENSATE PIPE.
4. REMOVE EXISTING STORM PIPE.
5. PREVIOUSLY ABANDONED OR REMOVED PIPE, VERIFY, REMOVE ANY PART THAT INTERFERES WITH NEW CONSTRUCTION.
6. REMOVE EXISTING RC FROM ABOVE AND CAP/PLUG BELOW FLOOR.
7. REMOVE EXISTING F PIPE, VERIFY LOCATION.
8. REMOVE EXISTING 4" F PIPE UP.
9. WHERE NEW PIPING IS RUN BELOW FINISHED FLOOR INSTALL PER DETAIL. (6 / P-501)
10. REMOVE EXISTING FLOOR DRAIN AND SHOWER DRAIN AND ASSOCIATED PIPING COMPLETE. CAP TERMINATED SANITARY BRANCHES.
11. CONNECT NEW 2" SANITARY PIPING TO EXISTING AT THIS POINT.
12. 6" INCOMING FIRE SPRINKLER SERVICE.
13. RELOCATE/REPLACE EXISTING INCOMING GAS SERVICE, VERIFY LOCATION OF EXISTING SERVICE.
14. VERIFY LOCATION OF UTILITIES IN THIS AREA FOR INSTALLATION OF CHILLER FOUNDATION, PROTECT PIPE AND LOCATE CHILLER FOUNDATION TO AVOID PIPE DAMAGE.

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



UNIT "A" PLUMBING FOUNDATION PLAN

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

PLAN NORTH

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

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PROJECT
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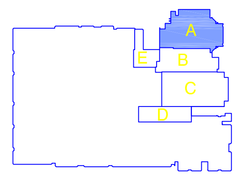
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



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PROJECT 06-612
DATE 03/19/07
COORDINATED BY MBW
DRAWN BY MBW
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DRAWING
UNIT "A" PLUMBING FOUNDATION PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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A P-101

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GENERAL NOTES:

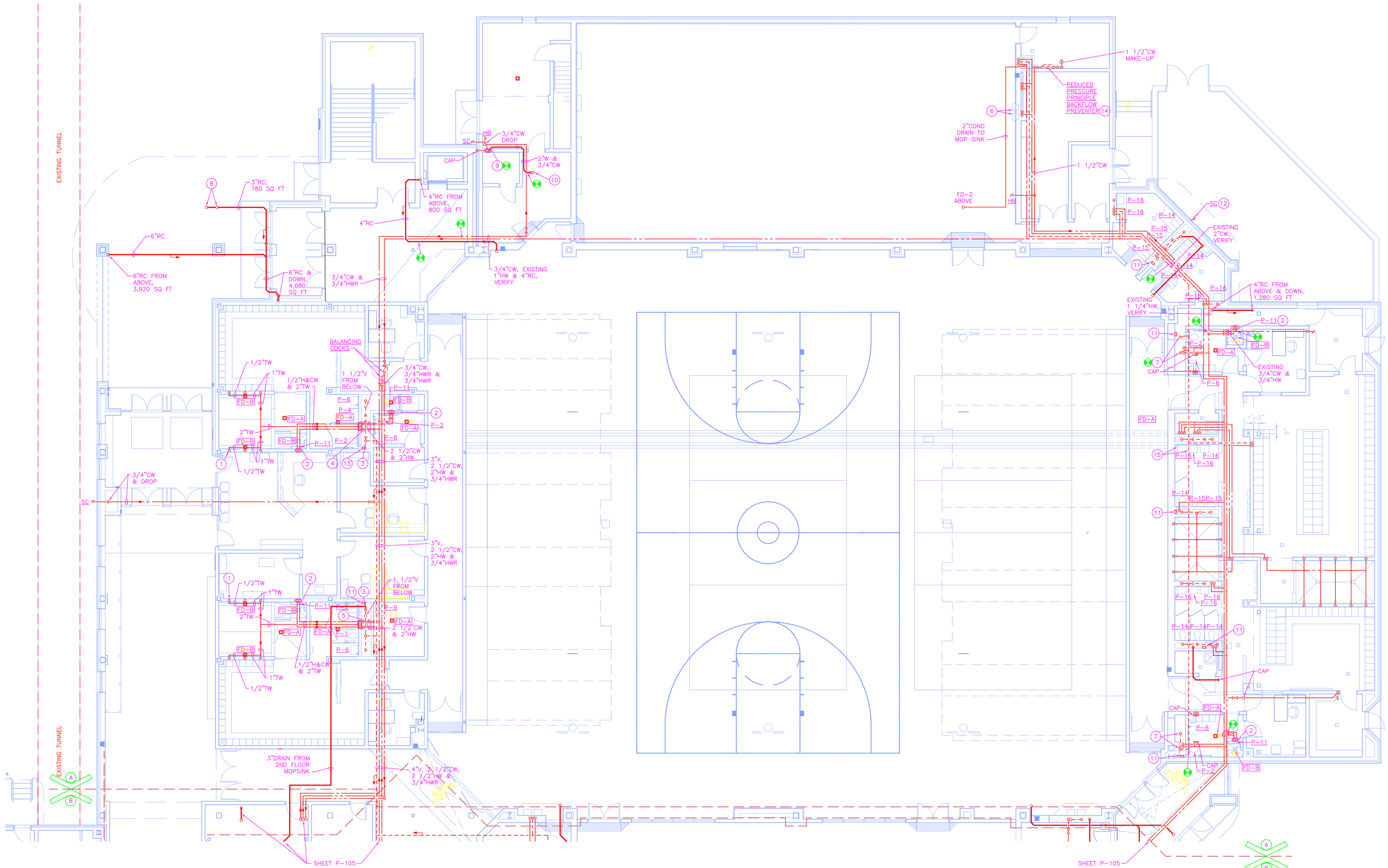
1. SEE SHEET P-001 FOR PLUMBING LEGEND, GENERAL NOTES AND SCHEDULES.
2. SEE SHEET P-501 FOR PLUMBING DETAILS.
3. SEE SHEET P-701 FOR PLUMBING DIAGRAMS AND ISOMETRICS.
4. PIPING SHOWN BUT NOT NOTED IS EXISTING AND SHALL REMAIN IN SERVICE.

PLAN NOTES:

1. 1/2"TW DROP TO P-10, TYPICAL SIX (6).
2. 1/2"HW AND 1/2"CW DROP.
3. 4"W DOWN AND 3"V RISE.
4. 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.
5. 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.
6. RECONDITION EXISTING DF/CUSPIDOR, PROVIDE NEW BUBBLER, SPRAYER, DRAIN STRAINER, SUPPLY STOP, P-TRAP, ETC. AND THROUGHLY CLEAN FIXTURE CABINET.
7. PROVIDE NEW CARRIER, ADJUST W, V, CW AND HW AS REQUIRED AND CONNECT TO NEW FIXRUE COMPLETE, TYPICAL WHERE REQUIRED.
8. 8"RC FROM RD/OFD ABOVE.
9. EXISTING 3/4"CW UP AND 2"W DOWN, VERIFY, CAP AND ABANDON 3/4"CW DROP.
10. EXISTING FD AND 2"W, VERIFY.
11. ELECTRONIC FLUSH VALVE LOCATION. BID AS AN ALTERNATE.
12. DISCONNECT, REMOVE AND REPLACE EXISTING SC.
13. ELECTRONIC FLUSH VALVE LOCATION FOR BOTH TOILET ROOMS. BID AS AN ALTERNATE.
14. MOUNT BACKFLOW PREVENTER ABOVE SINK RIM AND RUN FUNNEL DRAIN TO SINK.
15. 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

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



UNIT "A" PLUMBING FIRST FLOOR PLAN

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

PLAN NORTH

GREINER BROTHERS INC.
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DATE: 8-17-10

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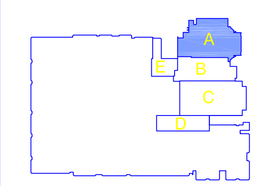

KEY PLAN

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PROJECT 06-612
DATE 03/19/07
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DRAWING
UNIT "A" PLUMBING FIRST FLOOR PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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A
P-102

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ROOM NAME SCHEDULE	
NO	NAME
2	STAIR
3	STAIR
325	ELEVATOR
394	BALCONY
395	MECHANICAL
396	MECHANICAL
397	BALCONY
397A	ALCOVE

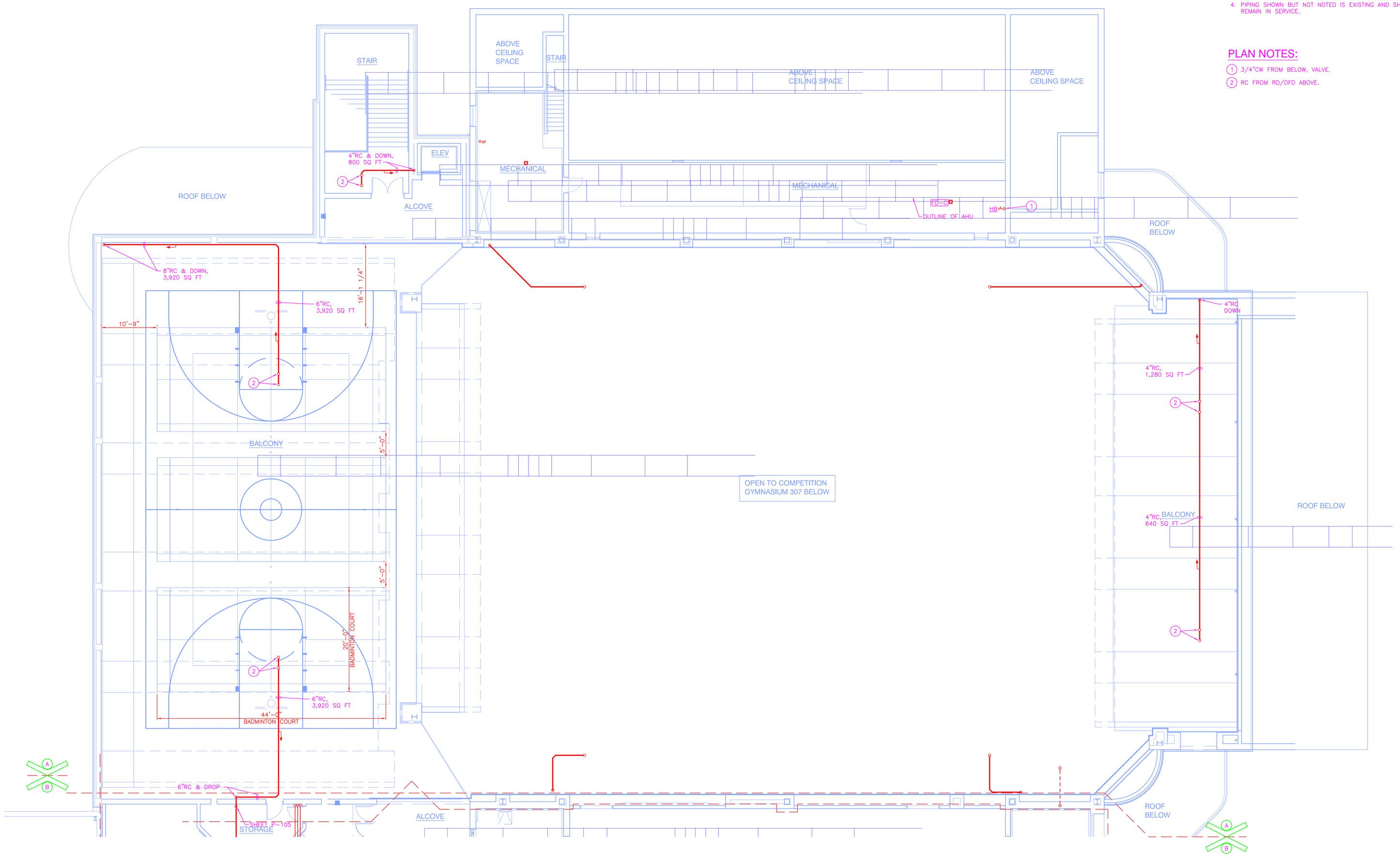
GENERAL NOTES:

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

PLAN NOTES:

(1) 3/4"CW FROM BELOW, VALVE.

(2) RC FROM RD/OFD ABOVE.



UNIT "A" PLUMBING SECOND FLOOR PLAN

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

PLAN NORTH

GREINER BROTHERS INC.
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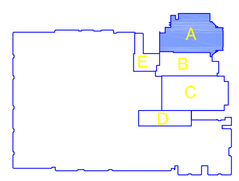
LAWRENCE CENTRAL HIGH SCHOOL

RENOVATIONS, ADDITIONS AND RELATED WORK

MSD OF LAWRENCE TOWNSHIP



KEY PLAN

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DRAWING
UNIT "A" PLUMBING SECOND FLOOR PLAN

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GENERAL NOTES:

1. SEE SHEET P-001 FOR PLUMBING LEGEND, GENERAL NOTES AND SCHEDULES.
2. SEE SHEET P-501 FOR PLUMBING DETAILS.
3. SEE SHEET P-701 FOR PLUMBING DIAGRAMS AND ISOMETRICS.
4. PIPING SHOWN BUT NOT NOTED ARE EXISTING AND SHOULD REMAIN IN SERVICE.

PLAN NOTES:

1. REMOVE EXISTING PIPE, RISER, CB, ETC. WHERE SHOWN.
2. PREVIOUSLY ABANDONED OR REMOVED PIPE, VERIFY, REMOVE ANY PORTION THAT INTERFERES WITH NEW CONSTRUCTION.

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
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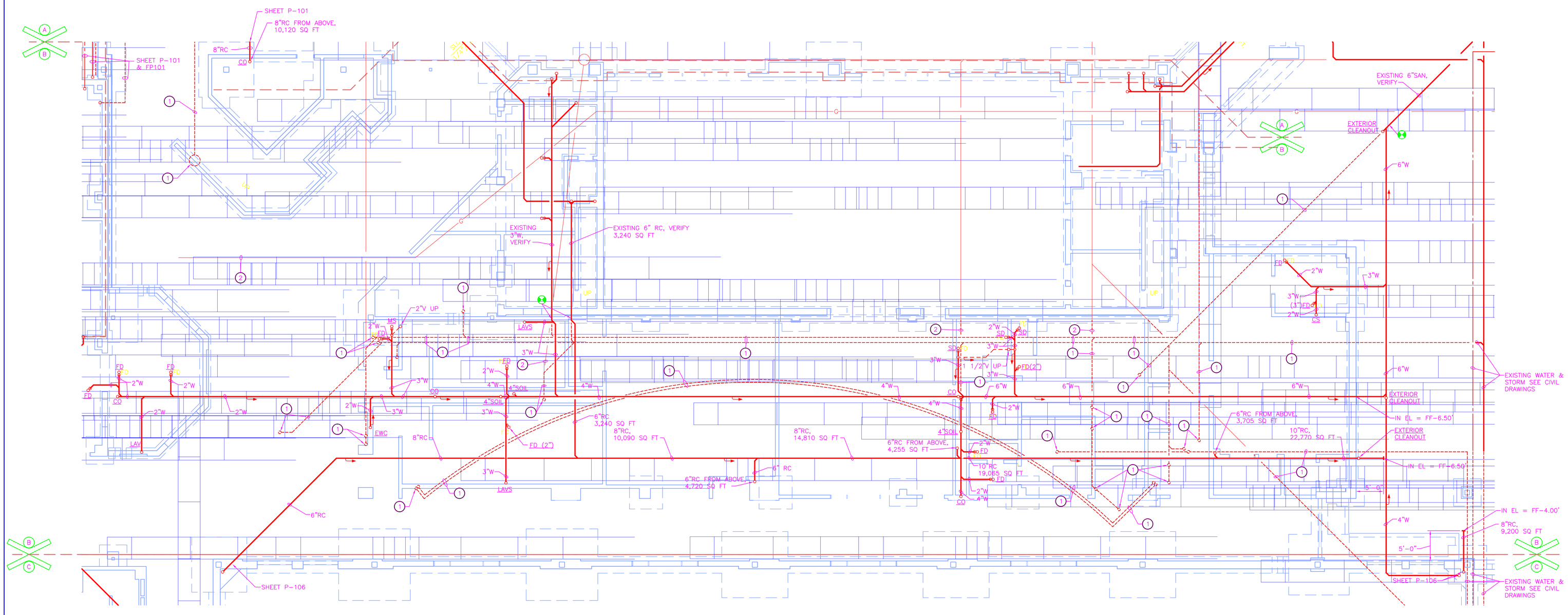
359	TRAINER
359A	WHIRLPOOL
359B	STORAGE
360	OFFICE
361	VESTIBULE
376	STORAGE



UNIT "B" PLUMBING FOUNDATION PLAN

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

NORTH
PLAN NORTH

GREINER BROTHERS INC.
PROJECT RECORD DOCUMENT
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PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

RENOVATIONS, ADDITIONS AND RELATED WORK

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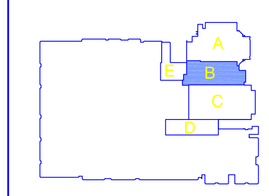

KEY PLAN

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DRAWING
UNIT "B"
PLUMBING
FOUNDATION
PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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SHEET
B
P-104

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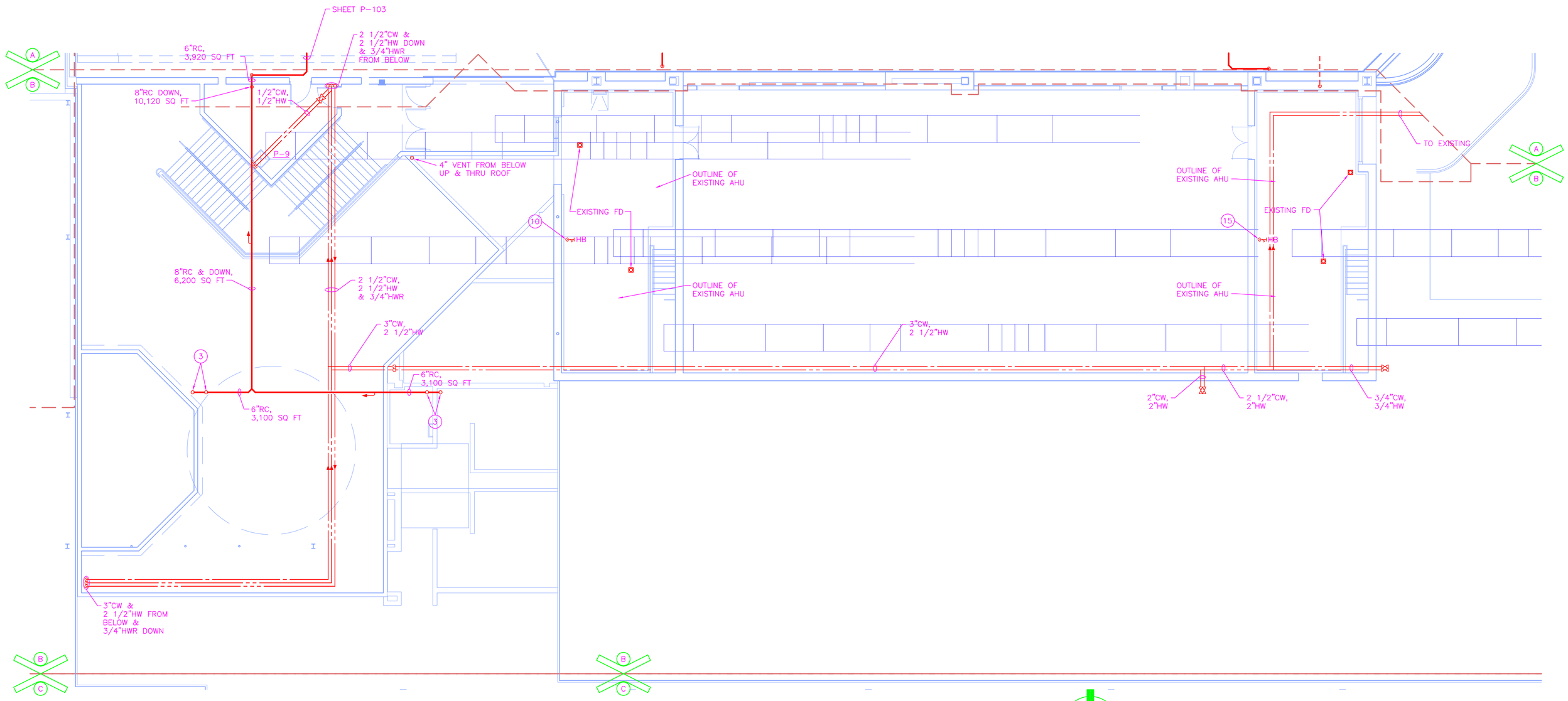
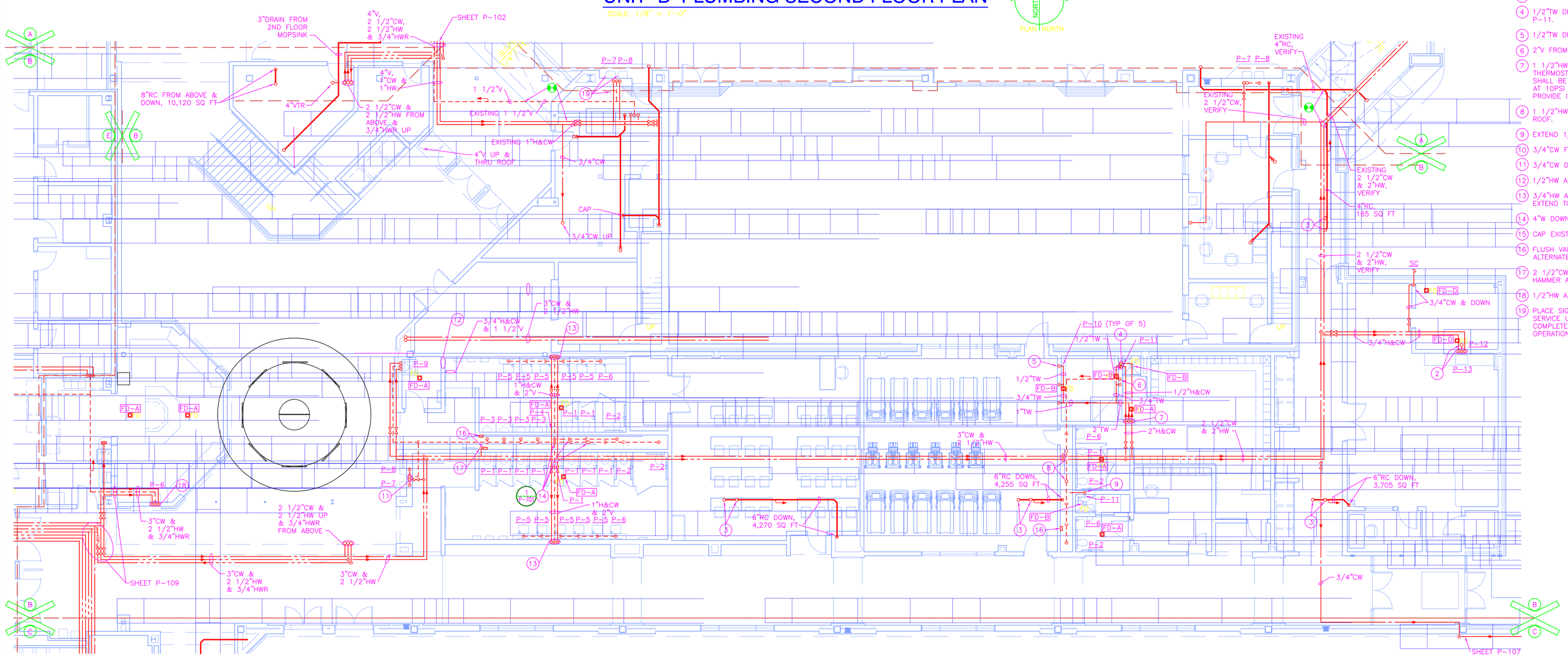


UNIT "B" PLUMBING SECOND FLOOR PLAN

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



UNIT "B" PLUMBING FIRST FLOOR PLAN

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

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

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
397B	ALCOVE
398	STORAGE
399	MECHANICAL
400	MECHANICAL

GENERAL NOTES:

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

PLAN NOTES:

1. ADJUST W, V, AND CW AS REQUIRED AND RAISE EWC'S AS REQUIRED TO ACOMMODATE NEW FLOOR HEIGHT. 1 5/8". FIELD VERIFY.
2. 3/4"HW AND 3/4"CW DROP, 2"W DOWN, 1 1/2"V UP AND 3" THRU ROOF.
3. RC FROM RD/OFD ABOVE.
4. 1/2"TW DROP TO P-10, 1/2"CW AND 1/2"CW DROP TO P-11.
5. 1/2"TW DROP TO EACH P-10 (TYPICAL OF 5).
6. 2"V FROM BELOW.
7. 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#83006, 13 GPM AT 10PSI DROP. PROVIDE RECESSED WALL CABINET AND PROVIDE INLET BALL VALVES IN CABINET.
8. 1 1/2"HW, 2 1/2"CW DROP, 4"W DOWN, 4"V UP THRU ROOF.
9. EXTEND 1/2"HW AND 1/2"CW FROM CHASE TO SHOWER.
10. 3/4"CW FROM BELOW. PROVIDE SERVICE VALVE AND HB.
11. 3/4"CW DROP, 2"W DOWN, 2"V RISER.
12. 1/2"HW AND 1/2"CW DROP, 1 1/2"V FROM BELOW.
13. 3/4"HW AND 3/4"CW DROP. 3"W DOWN AND 2"V RISER. EXTEND TO ALL LAVS.
14. 4"W DOWN, 4"V UP AND THRU ROOF.
15. CAP EXISTING CW AT 24" A.F.F. AND PROVIDE HB.
16. FLUSH VALVE TRANSFORMER LOCATION, BID AS AN ALTERNATE.
17. 2 1/2"CW DROP VALVE AND HEADER IN CHAES WITH WATER HAMMER ARRESTOR.
18. 1/2"HW AND 1/2"CW DROP, 2"W DOWN AND 1 1/2"V RISE.
19. 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.

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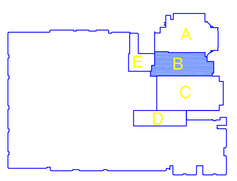
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



KEY PLAN

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PROJECT 06-612
DATE 03/19/07
COORDINATED BY MBW
DRAWN BY MBW
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DRAWING
UNIT "B" PLUMBING FIRST FLOOR AND SECOND FLOOR PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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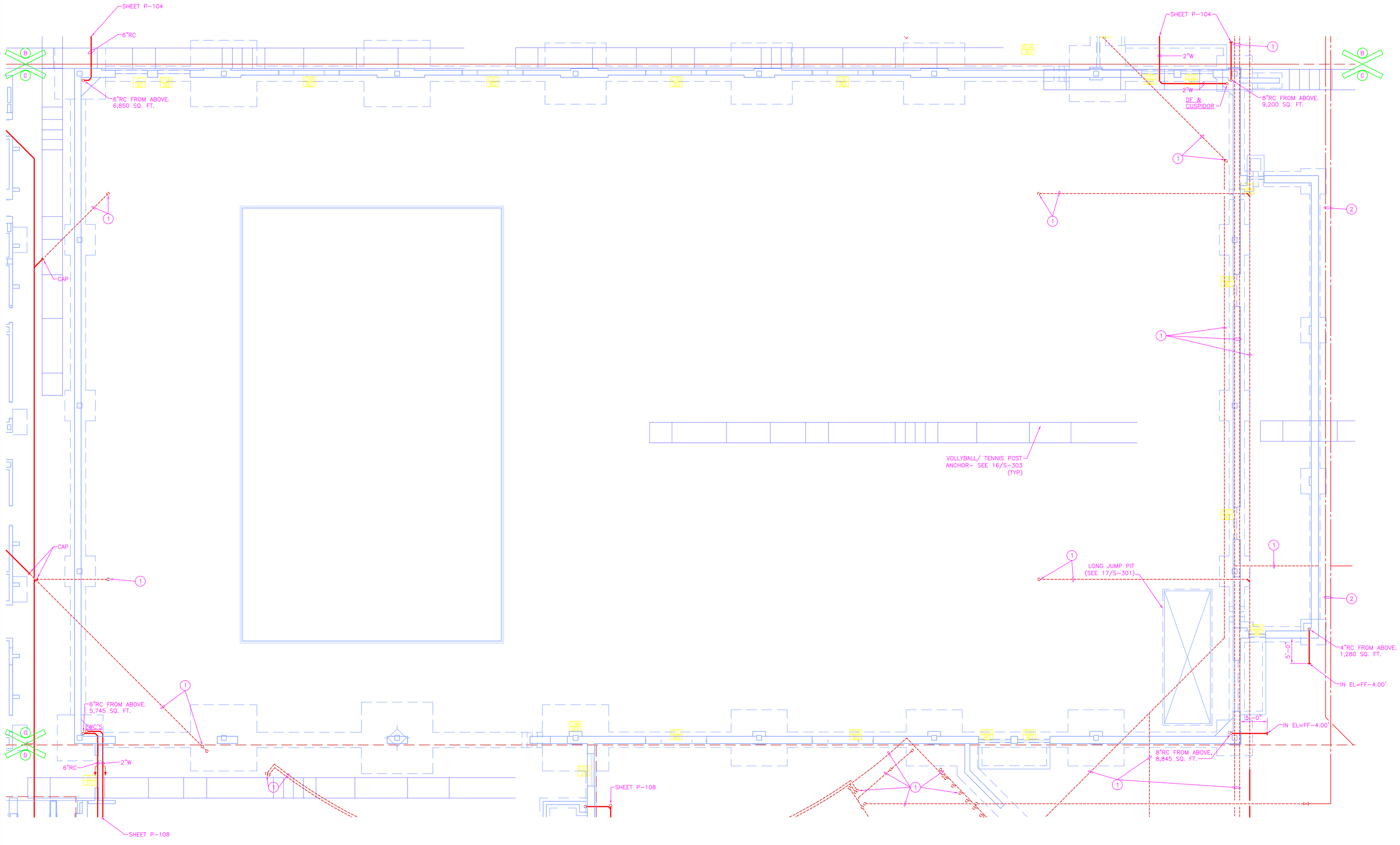
ROOM NAME SCHEDULE	
NO	NAME
362	STORAGE
363	MULTI-PURPOSE GYMNASIUM
364	CORRIDOR

GENERAL NOTES:

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

PLAN NOTES:

(1) REMOVE EXISTING PIPE AND RISERS COMPLETE.
(2) SEE CIVIL SITE UTILITY DRAWINGS.



UNIT "C" PLUMBING FOUNDATION PLAN

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

NORTH
PLAN NORTH

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

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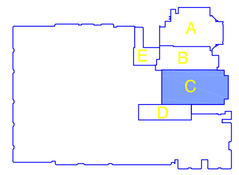
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



KEY PLAN

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DRAWING
UNIT "C" PLUMBING FOUNDATION PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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ROOM NAME SCHEDULE	
NO	NAME
362	STORAGE
363	MULTI-PURPOSE GYMNASIUM
364	CORRIDOR

GENERAL NOTES:

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

PLAN NOTES:

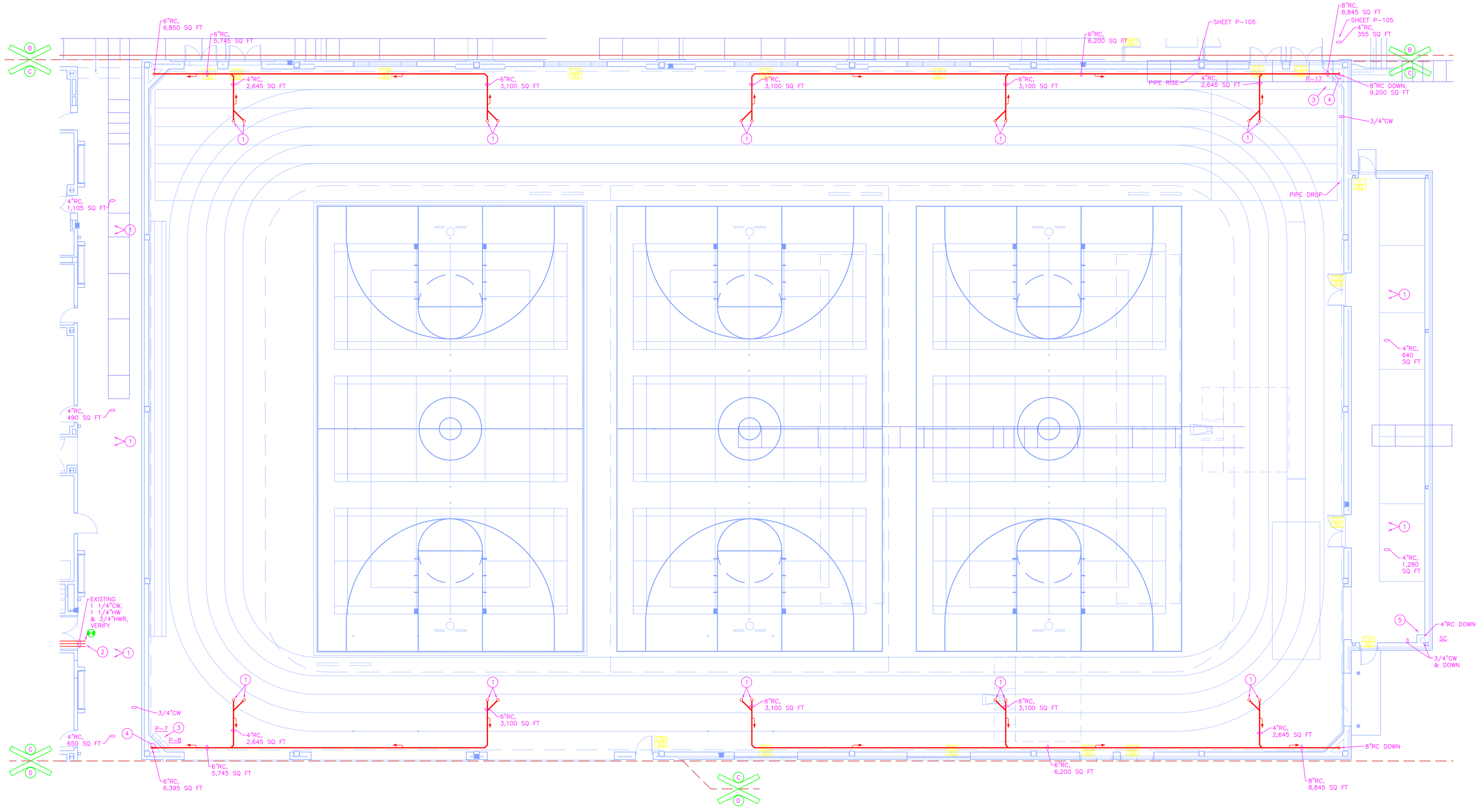
(1) RC FROM RD/OFD ABOVE.

(2) PROVIDE 3/4"HWR AND CONNECT EXISTING HW TO EXISTING HWR.

(3) 1 1/2"V UP AND 3" THRU ROOF.

(4) 1/2"CW DROP, 2"W DOWN AND 1 1/2"V RISE.

(5) WOODFORD MODEL B26 CHROME PLATED BOX HYDRANT AT 12"AFF.



UNIT "C" PLUMBING FIRST FLOOR PLAN

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

NORTH
PLAN NORTH

GREINER BROTHERS INC.
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DATE: 8-17-10

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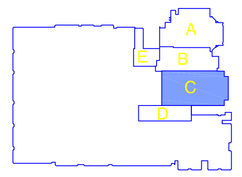
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

RENOVATIONS, ADDITIONS AND RELATED WORK

MSD OF LAWRENCE TOWNSHIP



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DRAWING
UNIT "C"
PLUMBING
FIRST FLOOR
PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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PLAN NOTES:

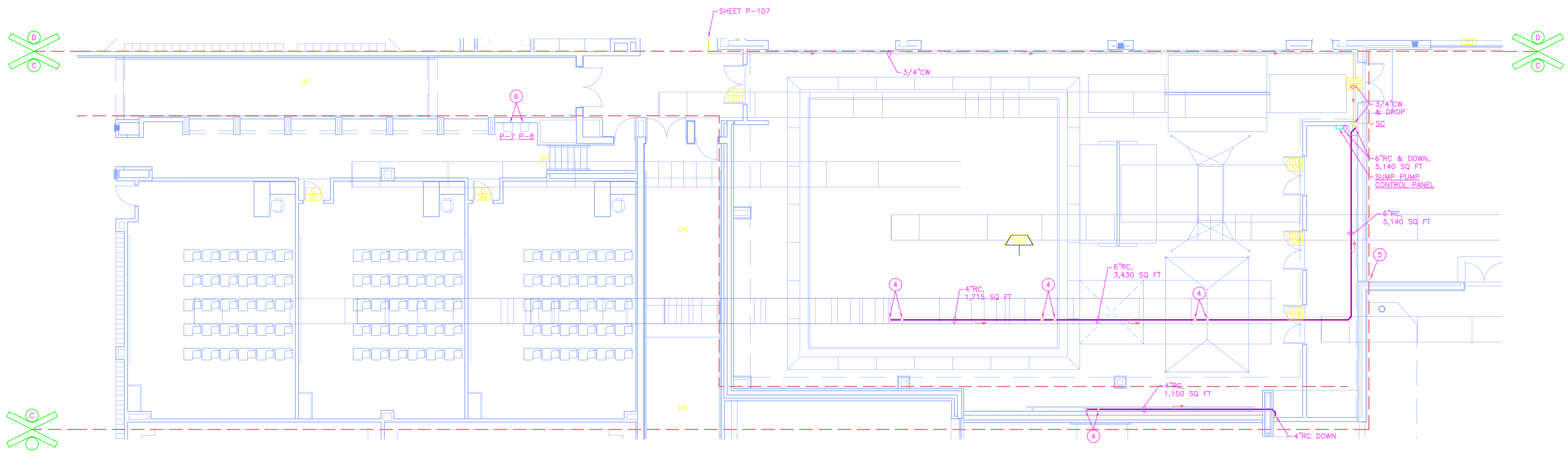
1. REMOVE EXISTING PIPE, RISER, CATCH BASIN/MAN HOLE COMPLETE.
2. REMOVE AND REPLACE EXISTING SANITARY W WITH CAST IRON W, REPLACE WITH SAME SIZE AS EXISTING. MATCH SLOPE AND ELEVATION.
3. 2" PUMP DISCHARGE WITH GATE VALVE AND CHECK VALVE.
4. RC FROM RD/OFD ABOVE.
5. CONNECT 4"RC TO DOWN SPOUT, SEE DETAIL 2/P-501
6. INSTALL EWC'S CONNECT TO EXISTING CW, W AND V ADJUSTING SERVICES AS REQUIRED.

GENERAL NOTES:

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

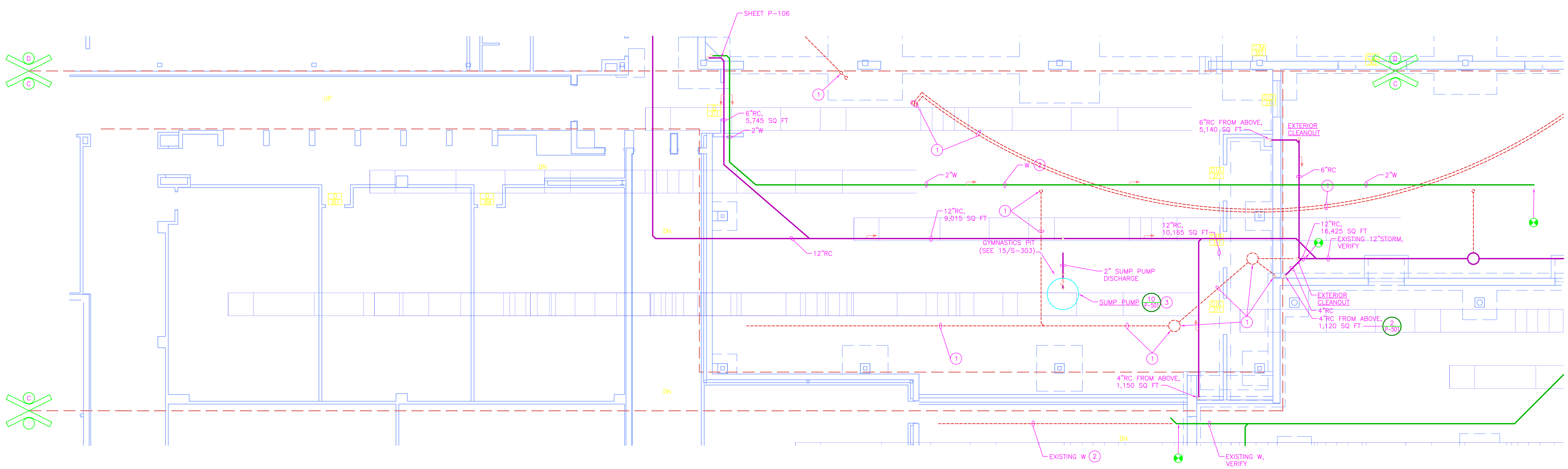
ROOM NAME SCHEDULE

NO	NAME
365	CORRIDOR
366	CLASSROOM
367	CLASSROOM
368	CLASSROOM
369	CORRIDOR
370	CORRIDOR
371	GYMNASTICS
371A	STORAGE



UNIT "D" PLUMBING FIRST FLOOR PLAN

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



UNIT "D" PLUMBING FOUNDATION FLOOR PLAN

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

GREINER BROTHERS INC.
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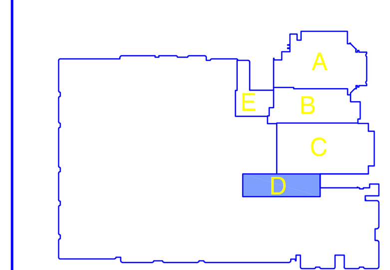
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



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DRAWING
UNIT "D" PLUMBING FOUNDATION & FIRST FLOOR PLANS

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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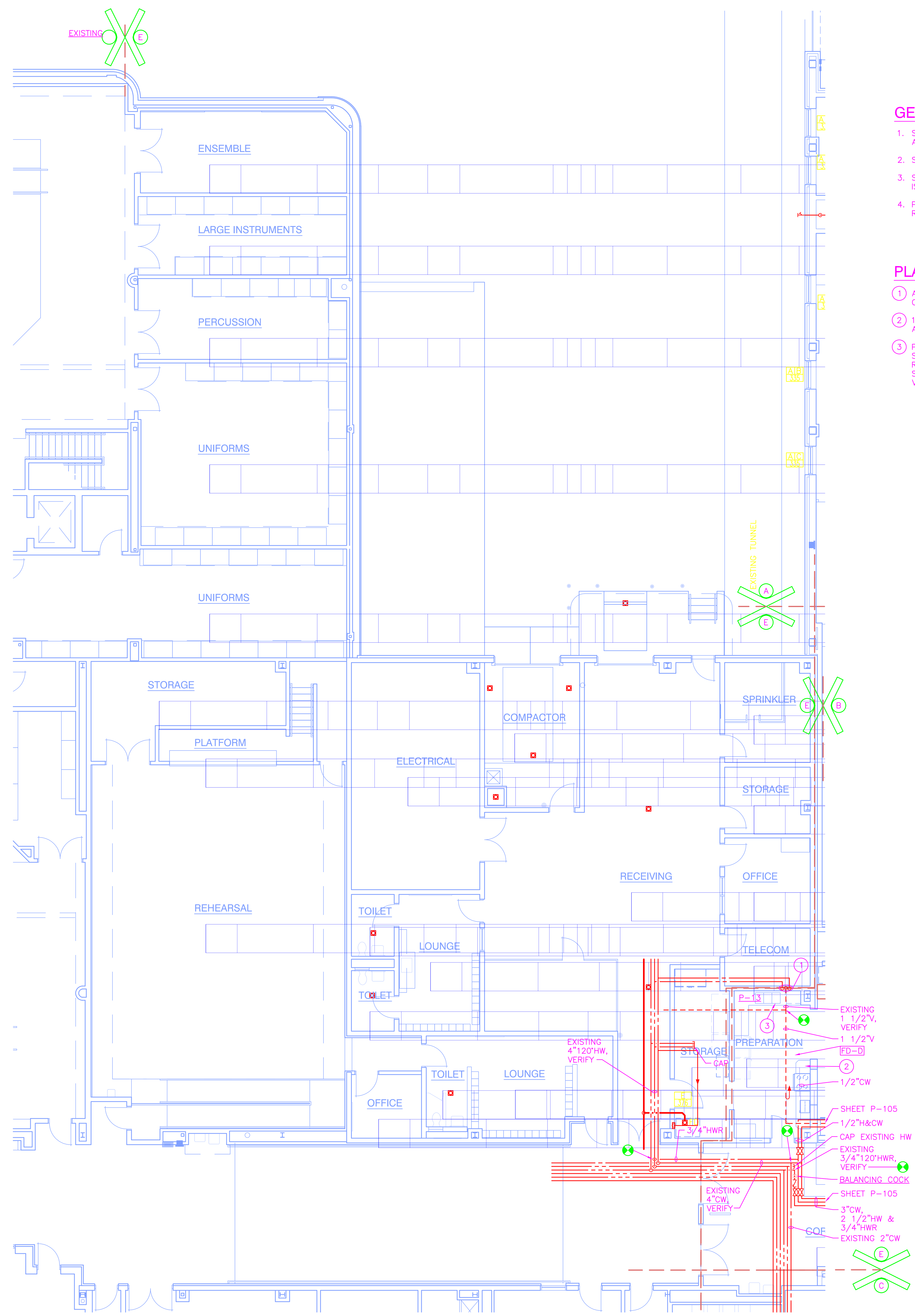

UNIT "E" PLUMBING FIRST FLOOR PLAN

NORTH

PLAN NORTH

ROOM NAME SCHEDULE

NO	NAME
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	PLATFORM
388	STORAGE
389	UNIFORM
390	UNIFORM
391	PERCUSSION
392	LARGE INSTRUMENT
393	ENSEMBLE

GENERAL NOTES:

1. SEE SHEET P-001 FOR PLUMBING LEGEND, GENERAL NOTES AND SCHEDULES.
2. SEE SHEET P-501 FOR PLUMBING DETAILS.
3. SEE SHEET P-701 FOR PLUMBING DIAGRAMS AND ISOMETRICS.
4. PIPE SHOWN BUT NOT NOTED IS EXISTING AND SHALL REMAIN.

PLAN NOTES:

(1) ADJUST EXISTING W, V, HW AND CW PIPE AS REQUIRED AND CONNECT TO CABINET SINK COMPLETE.

(2) 1/2"CW DROP, PROVIDE ICE MAKER HOOK-UP BOX AT 12" AFF.

(3) PROVIDE IN-SINK-ERATOR GARBAGE DISPOSAL STAINLESS STEEL MODEL#17, LOCK COVER/BATCH FEED, ALTERNATE REVERSING SWITCH, CORROSIONS PROTECTION SHIELD, SELF-SERVICE WRENCHETTE, ELECTRICAL DATA: 3/4HP, 120 V, SPLIT PHASE MOTOR.

GREINER BROTHERS INC.
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PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
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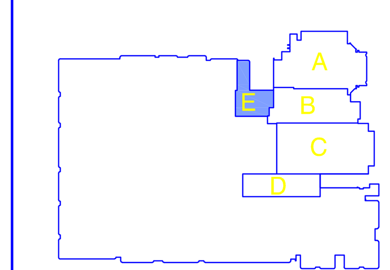

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DRAWING
UNIT "E" PLUMBING FIRST FLOOR PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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E

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P-109

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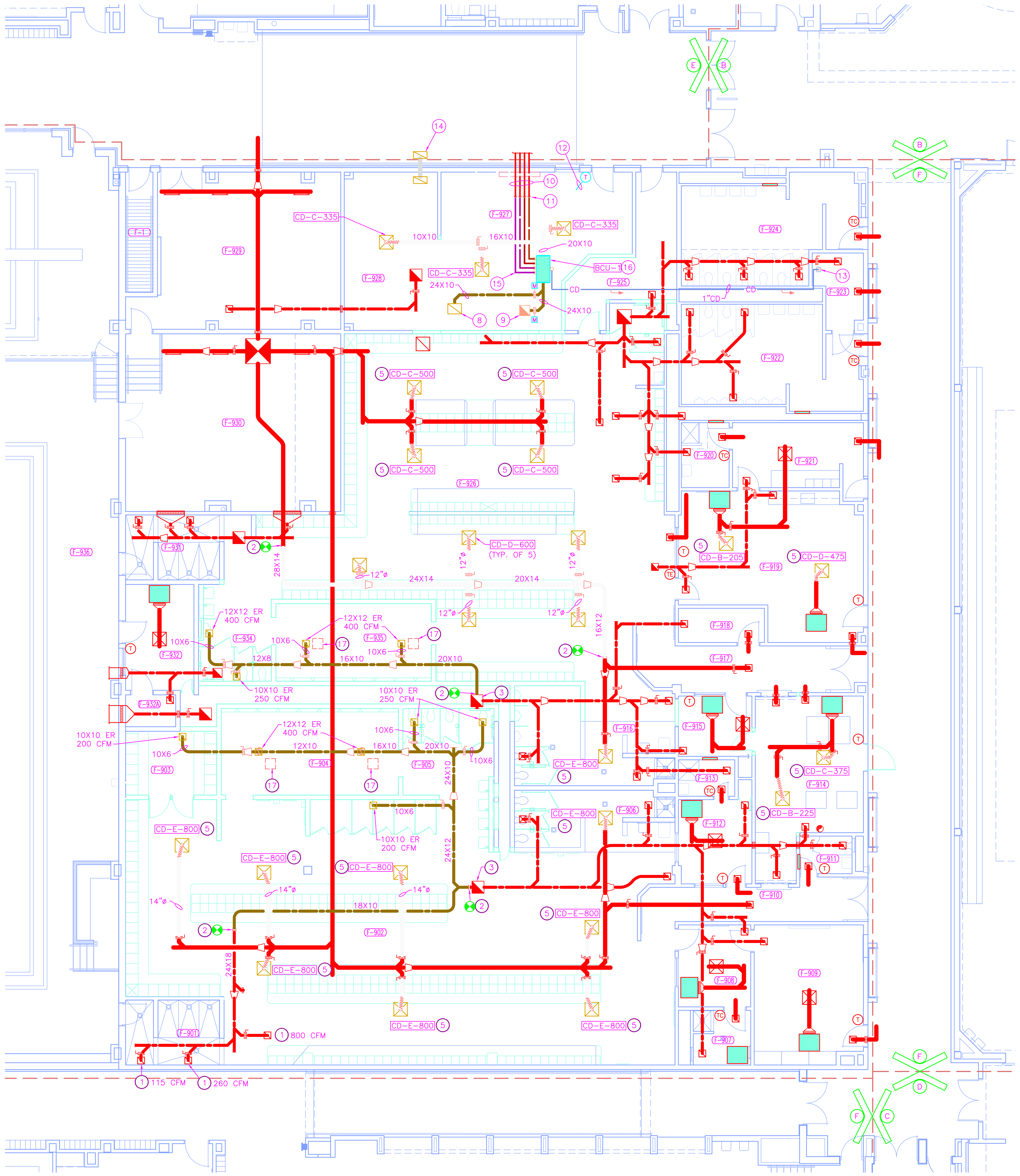

UNIT "F" MECHANICAL FIRST FLOOR PLAN

SCALE 1/8" = 1'-0"

ROOM SCHEDULE

NO	DESCRIPTION
F-1	STAIR
F-326	CORRIDOR
F-901	POOL SHOWER
F-902	GIRLS LOCKER ROOM
F-903	SWIM LOCKERS
F-904	GIRLS SHOWER/ DRY
F-905	TOILET
F-906	TOILET
F-907	TOILET
F-908	OFFICE
F-909	PE OFFICE
F-910	PASSAGE
F-911	TOILET
F-912	OFFICE
F-913	TOILET
F-914	LAUNDRY
F-915	OFFICE
F-916	TOILET
F-917	PASSAGE
F-918	STORAGE
F-919	PE OFFICE
F-920	TOILET
F-921	LOCKER
F-922	BOYS
F-923	JANITOR
F-924	GIRLS
F-925	PASSAGE
F-926	BOYS LOCKER ROOM
F-927	HOSPITALITY
F-928	KITCHEN
F-929	MECHANICAL
F-930	POOL EQUIPMENT ROOM
F-931	POOL SHOWER
F-932	OFFICE
F-932A	STORAGE
F-934	TOILET

PLAN NOTES:

1. RE-INSTALL EXHAUST REGISTER IN NEW LAY-IN CEILING AND REBALANCE TO AIR QUANTITY INDICATED.
2. CONNECT NEW EXHAUST DUCT TO EXISTING EXHAUST SYSTEM AT THIS POINT.
3. EXISTING EXHAUST FAN TO REMAIN.
4. CAP EXISTING EXHAUST DUCT AT THIS POINT.
5. PROVIDE AND INSTALL A NEW SUPPLY DIFFUSER AND FLEXIBLE DUCT. DIFFUSER TO BE INSTALLED IN LAY-IN CEILING.
6. CONNECT NEW 28"X14" SUPPLY DUCT TO EXISTING SUPPLY DUCT AT THIS POINT.
7. EXISTING SUPPLY DUCTWORK TO REMAIN.
8. 24"X18" RETURN AIR REGISTER 1000 CFM.
9. 18"X18" DUCT UP TO 18"ø OUTDOOR AIR INTAKE ON ROOF. PROVIDE NEW ROOF OPENING, ROOF CURB, PATCH AND REPAIR ROOF AS REQUIRED.
10. EXISTING S&R, CH&CHR PIPING TO REMAIN.
11. CONNECT NEW 1"CH&CHR, 1"S&R PIPING TO EXISTING AT THIS POINT.
12. PROVIDE NEW THERMOSTAT TO CONTROL BLOWER COIL UNIT.
13. TERMINATE 1"PVC CONDENSATE DRAIN LINE OVER FLOOR DRAIN IN JANITORS ROOM.
14. 24"X12" TRANSFER AIR GRILLE IN CEILING, EACH SIDE OF WALL AND A 24"X8" DUCT BETWEEN.
15. 1"CH&CHR, 1"S&R TO BLOWER COIL UNIT.
16. BLOWER COIL UNIT TO BE A TRANE MODEL NO. BCHB-30 HORIZONTAL DRAW THRU TYPE, 1000CFM, MINIMUM OUTDOOR AIR 200 CFM, EXT. STATIC PRESSURE 1.5" TOTAL COOLING CAPACITY 30.0MBH, 8.0GPM, TOTAL HEATING CAPACITY 40.0 MBH, 5.0 GPM, 3/4 HP FAN MOTOR, 115 VOLTS, 1 PHASE. UNIT TO HAVE 2" THROW AWAY FILTERS, FACTORY INSTALLED DISCONNECT SWITCH, PROVIDE COMPLETE ECONOMIZER CONTROLS.
17. ACCESS DOOR BY THE G.C.
18. ALL SHOWER DUCTWORK TO BE ALUMINUM CONSTRUCTION.

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

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WORK INDICATED ON THESE DRAWINGS IS TYPICALLY SPECIFIED IN THE SPECIFICATIONS FOR PROJECT NUMBER 06-612. REFERENCE THAT DOCUMENT FOR THE MAJORITY OF THE WORK. ADDITIONAL SPECIFICATION SECTIONS HAVE BEEN ADDED FOR WORK THAT IS NOT COVERED THEREIN. ALSO REFER TO THE CONSTRUCTION DOCUMENT DRAWINGS FOR PROJECT NUMBER 06-612 FOR GENERAL NOTES, GENERAL RENOVATION NOTES, SYMBOL SCHEDULES, AND EQUIPMENT SCHEDULES WHICH APPLY TO THE WORK INICATED ON THIS DRAWING.

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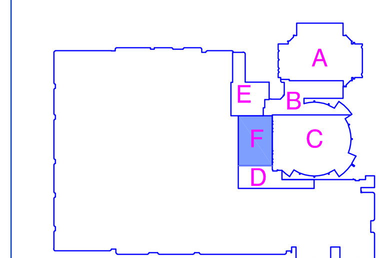
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
RENOVATION OF
EXISTING BOYS AND GIRLS P.E. LOCKER ROOMS AT LCHS AND RELATED WORK

LAWRENCE CENTRAL HIGH SCHOOL
MSD LAWRENCE TOWNSHIP
INDIANAPOLIS, INDIANA



KEY PLAN

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PROJECT 08-612
DATE 01-09-09
COORDINATED BY ####
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REVISIONS

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

DRAWING
UNIT "F" MECHANICAL FIRST FLOOR PLAN

PROJECT
RENOVATION OF EXISTING BOYS' & GIRLS' PE LOCKER ROOMS & RELATED AREAS

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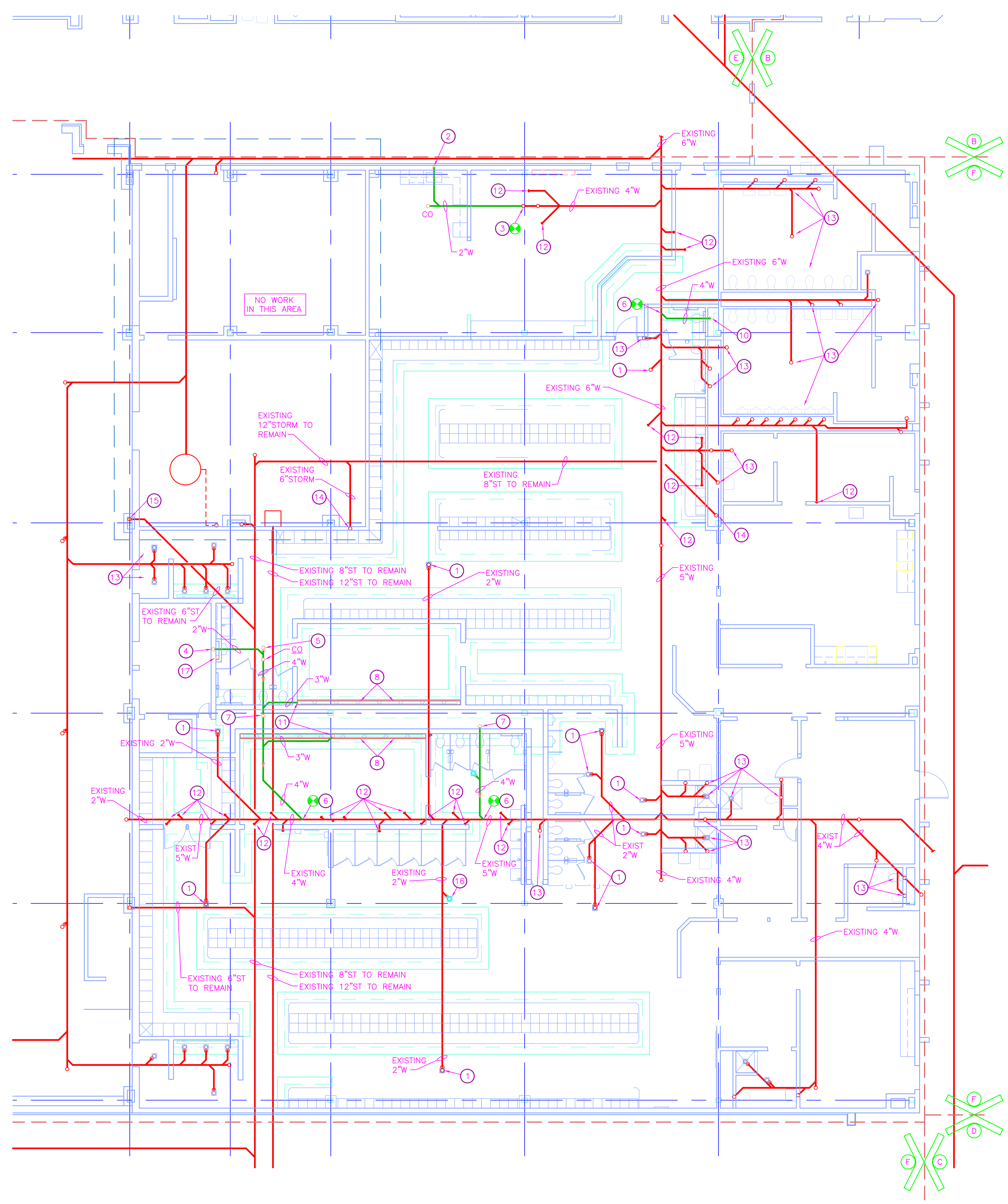
SHEET
M-101



UNIT "F" PLUMBING FOUNDATION PLAN

SCALE 1/8" = 1'-0"

NORTH

GENERAL PLUMBING NOTES:

1. SEE SHEET P-001 FOR GENERAL PLUMBING NOTES, LEGEND, SCHEDULES AND DETAILS.
2. PIPING SHOWN BUT NOT NOTED IS EXISTING AND SHALL REMAIN IN SERVICE.
3. PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY FLOOR/WALL CUTTING REQUIRED TO MODIFY AND/OR INSTALL PIPING AS SHOWN. PLUMBING CONTRACTOR IS ALSO RESPONSIBLE FOR ALL NECESSARY FLOOR/WALL REPAIR AFTER WORK IS COMPLETED. ALL FLOOR/WALL REPAIR MUST MATCH EXISTING AND BE FINISHED AND READY FOR NEW FLOOR/WALL FINISHES.

PLAN NOTES:

1. EXISTING FLOOR DRAIN TO REMAIN.
2. 2"W UP TO SERVE NEW SINK.
3. CONNECT NEW 2"W TO EXISTING 4"W AT THIS POINT.
4. NEW 2"W UP TO SERVE URINAL.
5. NEW 2"W UP TO SERVE FLOOR DRAIN.
6. CONNECT NEW 4"W TO EXISTING 4"W AT THIS POINT.
7. NEW 4"W UP IN CHASE TO SERVE WATER CLOSETS.
8. TRENCH TYPE SHOWER DRAIN.
9. NEW FLOOR DRAIN.
10. NEW 4"W UP TO SERVE WATER CLOSET.
11. 3"W CONNECTION TO TRENCH DRAIN.
12. CAPPED EXISTING WASTE. SEE PLUMBING DEMOLITION PLAN PD-101.
13. EXISTING WASTE LINES SERVING EXISTING FIXTURES TO REMAIN SHALL REMAIN IN SERVICE.
14. EXISTING 6" STORM DS TO REMAIN.
15. EXISTING 4" STORM DS TO REMAIN.
16. NEW FLOOR DRAIN. CONNECT TO EXISTING DRAIN LINE UNDERFLOOR.
17. 2"V UP.

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

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PROJECT
RENOVATION OF EXISTING BOYS' & GIRLS' PE LOCKER ROOMS & RELATED AREAS

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SHEET
P-101

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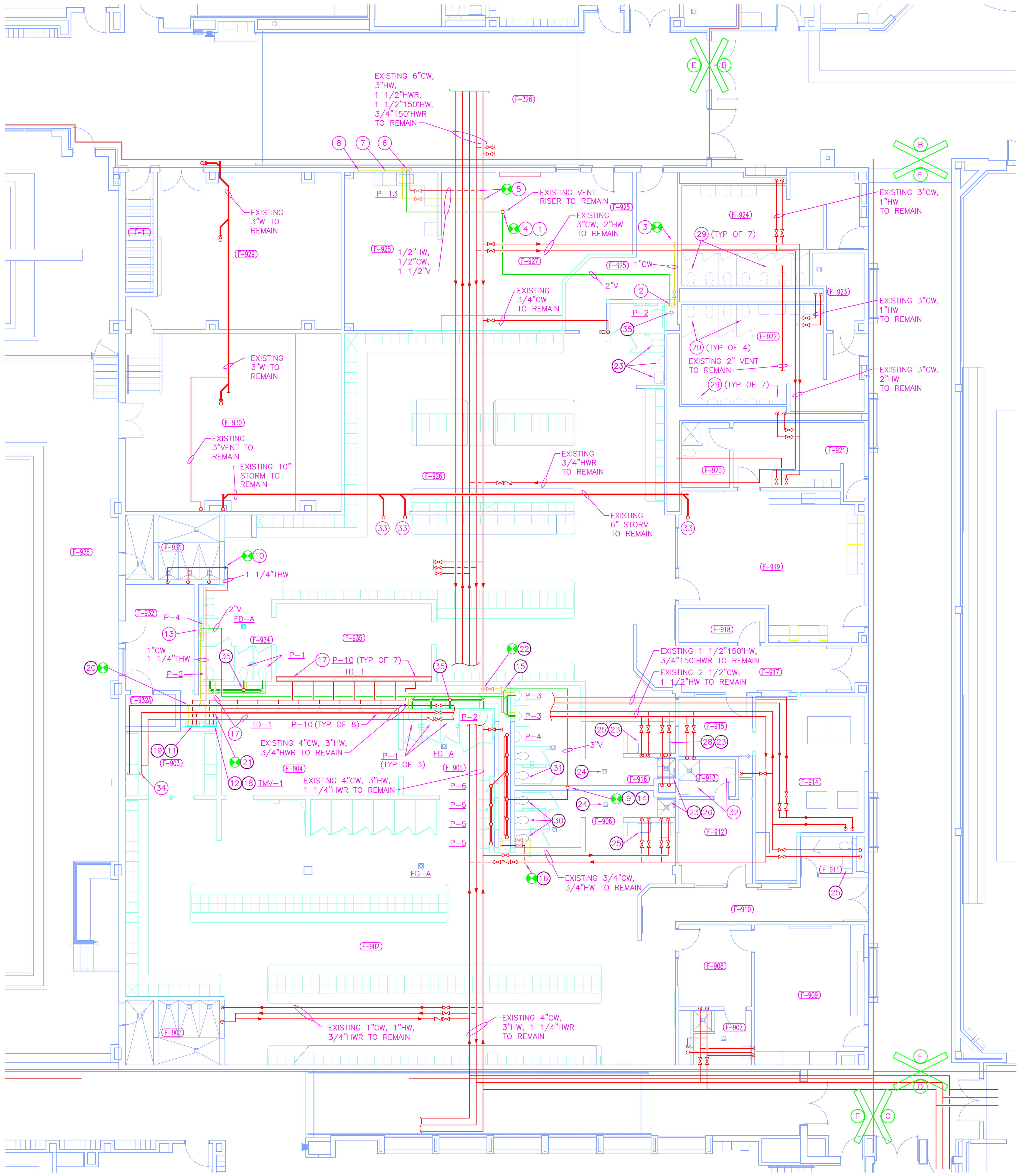

UNIT "F" PLUMBING FIRST FLOOR PLAN

SCALE 1/8" = 1'-0"

NORTH

ROOM SCHEDULE

NO	DESCRIPTION
F-1	STAIR
F-326	CORRIDOR
F-901	POOL SHOWER
F-902	GIRLS LOCKER ROOM
F-903	SWIM LOCKERS
F-904	GIRLS SHOWER/ DRY
F-905	TOILET
F-906	TOILET
F-907	TOILET
F-908	OFFICE
F-909	PE OFFICE
F-910	PASSAGE
F-911	TOILET
F-912	OFFICE
F-913	TOILET
F-914	LAUNDRY
F-915	OFFICE
F-916	TOILET
F-917	PASSAGE
F-918	STORAGE
F-919	PE OFFICE
F-920	TOILET
F-921	LOCKER
F-922	BOYS
F-923	JANITOR
F-924	GIRLS
F-925	PASSAGE
F-926	BOYS LOCKER ROOM
F-927	HOSPITALITY
F-928	KITCHEN
F-929	MECHANICAL
F-930	POOL EQUIPMENT ROOM
F-931	POOL SHOWER
F-932	OFFICE
F-932A	STORAGE
F-934	TOILET
F-935	BOYS SHOWER / DRY
F-936	SWIMMING POOL

GENERAL PLUMBING NOTES:

1. SEE SHEET P-001 FOR GENERAL PLUMBING NOTES, LEGEND, SCHEDULES AND DETAILS.
2. PIPING SHOWN BUT NOT NOTED IS EXISTING AND SHALL REMAIN IN SERVICE.
3. PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY FLOOR/WALL CUTTING REQUIRED TO MODIFY AND/OR INSTALL PIPING AS SHOWN. PLUMBING CONTRACTOR IS ALSO RESPONSIBLE FOR ALL NECESSARY FLOOR/WALL REPAIR AFTER WORK IS COMPLETED. ALL FLOOR/WALL REPAIR MUST MATCH EXISTING AND BE FINISHED AND READY FOR NEW FLOOR/WALL FINISHES.

GENERAL FIRE PROTECTION NOTES:

1. COORDINATE ANY NECESSARY MODIFICATIONS TO THE EXISTING FIRE PROTECTION PIPING, REROUTING OF MAINS AND / OR BRANCHES, RELOCATION OF HEADS, OR ADDITION OF NEW BRANCHES AND / OR HEADS WITH ARCHITECTURAL REFLECTED CEILING PLANS, ELECTRICAL LIGHTING PLANS AND EXISTING SPECIFICATIONS.
2. THE ORIGINAL JOB SPECIFICATION SHALL BE USED TO DETERMINE DESIGN PARAMETERS, QUALITY, AND REQUIREMENTS OF ANY MODIFICATIONS TO THE EXISTING FIRE PROTECTION SYSTEM. REFER TO SPECIFICATION SECTIONS: 15310, 15320, 15330.

PLAN NOTES:

(1) CONNECT NEW 2" VENT TO EXISTING VENT RISER AT THIS POINT.
(2) 1"CW, 2" VENT DOWN IN CHASE TO SERVE NEW WATER CLOSET. CONNECT 1"CW, 2"V, 4"W TO WATER CLOSET.
(3) CONNECT NEW 1"CW TO EXISTING 3"CW AT THIS POINT.
(4) CONNECT NEW 1 1/2" VENT TO EXISTING VENT RISER AT THIS POINT.
(5) CONNECT NEW 3/4"CW, 1/2"HW TO EXISTING 6"CW, 3"HW AT THIS POINT.
(6) 3/4"CW, 1/2"HW, 1 1/2"V DOWN IN WALL TO SERVE NEW KITCHEN SINK. CONNECT 1/2"CW, 1/2"HW, 1 1/2"V, 1 1/2"W TO SINK. SINK, TRIM AND ACCESSORIES BY OTHERS. ALL COMPONENTS INSTALLED BY PLUMBING CONTRACTOR.
(7) EXTEND 1/2"CW IN CASEWORK TO NEW ICE MAKER BOX SERVING REFRIGERATOR ICE MAKER. FINAL CONNECTIONS ALSO BY PLUMBING CONTRACTOR.
(8) EXTEND 1/2"CW, 1/2"HW IN CASEWORK TO DISHWASHER. CONNECT DISHWASHER DRAIN TO SINK DRAIN.
(9) EXISTING VENT THRU ROOF TO REMAIN.
(10) CONNECT NEW 1 1/4"THW FROM RELOCATED THERMOSTATIC MIXING VALVE TO EXISTING 1 1/4"THW SERVING EXISTING SHOWERS.
(11) RELOCATED THERMOSTATIC MIXING VALVE.
(12) NEW THERMOSTATIC MIXING VALVE SERVING NEW SHOWERS.
(13) 3/4"CW, 2"VENT DOWN TO SERVE NEW URINAL. CONNECT 3/4"CW, 2"V, 2"W TO URINAL.
(14) CONNECT NEW 3"VENT TO EXISTING 4" VENT THRU ROOF.
(15) DROP NEW 3" VENT IN CHASE TO SERVE WATER CLOSETS AND URINALS.
(16) DROP NEW 3/4"CW, 3/4"HW TO SERVE LAVATORIES. CONNECT 1/2"CW, 1/2"HW, 1 1/2"V, 1 1/2"W TO EACH LAVATORY. CONNECT TO EXISTING VENT AND WASTE IN EXISTING CHASE. REMOVE EXISTING CHASE WALL AS REQUIRED TO ACCESS EXISTING PIPING.
(17) RUN 2" TEMPERED HOT WATER IN CHASE TO SERVE SHOWERS. CONNECT 1/2"THW TO EACH SHOWER.
(18) DROP 1 1/4"CW, 1 1/4"HW TO MIXING VALVE. 2"THW HEADER FROM MIXING VALVE TO SERVE NEW SHOWERS.
(19) DROP 1"CW, 1"HW TO RELOCATED MIXING VALVE. 1 1/4"THW FROM MIXING VALVE OUT TO SERVE EXISTING SHOWERS. RECONNECT TO EXISTING 1 1/4" THW LINE. SEE PLAN NOTE 10.
(20) CONNECT NEW 1"CW, 1"HW SERVING RELOCATED MIXING VALVE TO EXISTING 4"CW, 3"HW AT THIS POINT.
(21) CONNECT NEW 1 1/4"CW, 1 1/4"HW SERVING NEW MIXING VALVE TO EXISTING 4"CW, 3"HW AT THIS POINT.
(22) CONNECT NEW 2"CW TO EXISTING 4"CW AT THIS POINT. RUN 2" HEADER IN CHASE TO SERVE WATER CLOSETS AND URINALS. CONNECT 1"CW, 2"VENT, 4"WASTE TO WC, CONNECT 3/4"CW, 2"VENT, 2"WASTE TO URINAL.
(23) EXISTING FIXTURE TO REMAIN.
(24) EXISTING FLOOR DRAIN TO REMAIN.
(25) REPLACE ESCUTCHOENS ON DRAIN AND WATER SUPPLIES. REPLACE AERATOR ON FAUCET SPOUT, SUPPLIES AND SUPPLY STOPS.
(26) REPLACE WALL HANGER FOR HANDHELD SHOWER.
(27) REPLACE GRATE ON EXISTING FLOOR DRAIN.
(28) REPLACE ESCUTCHOENS ON DRAIN AND WATER SUPPLIES. REPLACE FAUCET SPOUT, SUPPLIES AND SUPPLY STOPS.
(29) REPLACE EXISTING MANUAL FLUSH VALVE WITH ELECTRONIC TYPE FLUSH VALVE UNDER ALTERNATE BID. SEE FLUSH VALVE SPECIFICATION BELOW.
(30) REPAIR / REPLACE EXISTING TOILET SEAT AS REQUIRED. SEAT TO BE ANCHORED SECURLEY AND ALIGNED PROPERLY.
(31) REALIGN WATER CLOSET ON CARRIER AND AND REALIGN FLUSH VALVE TO WATER CLOSET AND SUPPLY.
(32) INSPECT EXISTING WATER CLOSET, LAVATORY AND SHOWER N THIS ROOM AND MAKE FIXTURES SERVICABLE. REPAIR / REPLACE CPMPONENTS AS NECESSARY TO MAKE OPERATIONAL.
(33) EXISTING STORM RISER UP TO REMAIN.
(34) CAPPED EXISTING COLD AND HOT WATER RANCHES.
(35) 4" WASTE DOWN.

ADDITIONAL EQUIPMENT (NOT IN SPECIFICATION):

TD-1 TRENCH TYPE SHOWER DRAINS TO BE POLYDRAIN. CHANNELS SHALL HAVE INTERLOCKING JOINTS AND HORIZONTAL ANCHORING RIBS FOR POSITIVE ENCASEMENT IN CONCRETE SLAB. SECTIONS SHALL BE PRESLOPED TO DRAIN OUTLETS AS SHOWN ON PLANS. GRATES SHALL BE PERFORATED, HEEL PROOF TYPE ON 18-8 STAINLESS STEEL. PROVIDE ALL NECESSARY HARDWARE FOR ANCHORING, INSTALLATION AND GRATE ATTACHMENT AS RECOMMENDED BY MANUFACTURER.

TMV-1 THERMOSTATIC MIXING VALVE TO BE LAWLER 804 MODEL NUMBER 86306 WITH LIQUID FILLED THERMAL MOTOR. VALVE TO BE BRONZE CONSTRUCTION WITH SLIDING PISTON AND STAINLESS STEEL SLEEVE LINER. UNIT SHALL INCLUDE UNION END STOP AND CHECK INLETS WITH REMOVABLE STAINLESS STEEL STRAINERS. VALVE SHALL CONTROL TEMPERATURE FROM A LOW FLOW OF 4 GPM. UNIT TO INCLUDE DIAL THERMOMETER, SHUT OFF VALVE AND UNION ON TEMPERED WATER OUTLET. UNIT SHALL ALSO BE COMPLETE WITH ALL NIPPLES, FITTINGS, ESCUTCHOENS, AND STAINLESS STEEL CABINET WITH PIPE OPENINGS THROUGH TOP OF CABINET.

ALTERNATE EQUIPMENT:(EXISTING RESTROOMS F-922 & F-924)

ELECTRONIC FLUSH VALVES:

BID AS ALTERNATE: RETRO TYPE ELECTRONIC FLUSH VALVES TO REPLACE MANUAL FLUSH VALVES IN EXISTING RESTROOMS F922 AND F924. PROVIDE SLOAN MODEL G2 OPTIMA ELECTRONIC FLUSH VALVES FOR WATER CLOSETS AND URINALS. NEW ELECTRONIC VALVES SHALL BE HANDS FREE, BATTERY OPERATED TYPE AND SHALL REPLACE EXISTING SLOAN MANUAL TYPE FLUSH VALVES. PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY PARTS, ACCESSORIES AND HARDWARE FOR A COMPLETE AND WORKING SYSTEM.

ALSO AS PART OF BID ALTERNATE, PROVIDE ELECTRONIC FLUSH VALVES ON ALL NEW WATER CLOSETS AND URINALS IN LOCKER ROOMS AS DESCRIBED IN ORIGINAL SPECIFICATION FOR EACH FIXTURE TYPE.

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

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MSD LAWRENCE TOWNSHIP
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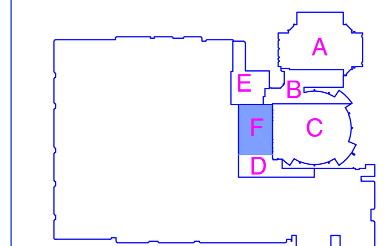

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DRAWING
UNIT "F" PLUMBING FIRST FLOOR PLAN

PROJECT
RENOVATION OF EXISTING BOYS' & GIRLS' PE LOCKER ROOMS & RELATED AREAS

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SHEET
P-102

GENERAL NOTES:

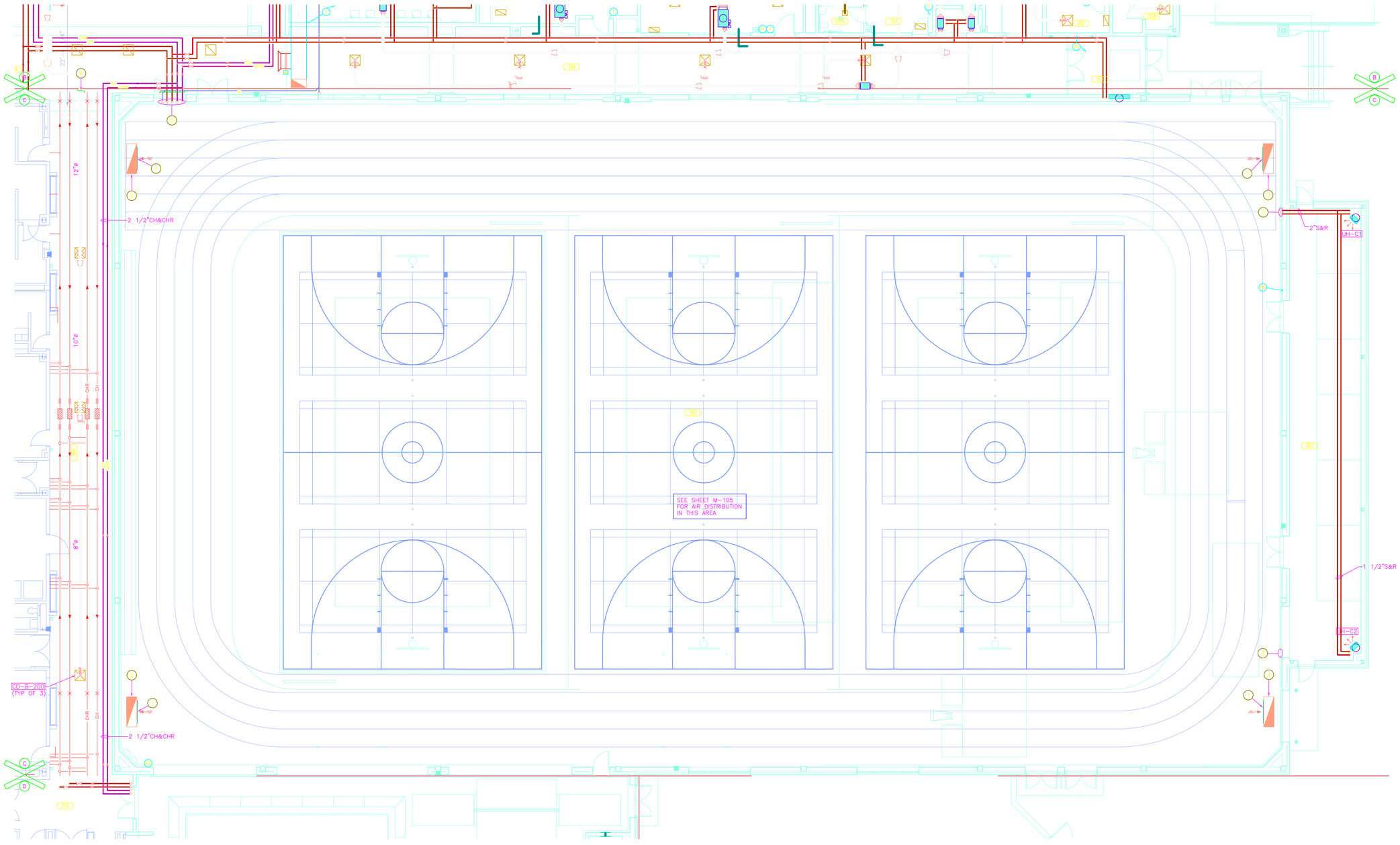
1. SEE SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL MECHANICAL NOTES.
2. SEE SHEETS M-501 AND M-502 FOR MECHANICAL DETAILS.
3. SEE SHEETS M-601 AND M-602 FOR MECHANICAL EQUIPMENT SCHEDULES.
4. SEE SHEETS M-801 AND M-802 FOR MECHANICAL TEMPERATURE CONTROL DIAGRAMS.
5. SEE SHEETS MD101 THROUGH MD106 FOR 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
367	STORAGE
363	MULTI-PURPOSE GYMNASIUM
364	CORRIDOR



UNIT "C" MECHANICAL FIRST FLOOR PLAN

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

NORTH
PLAN NORTH

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

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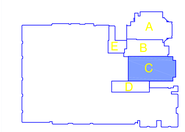
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



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

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DRAWING
UNIT "C" MECHANICAL FIRST FLOOR PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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SHEET
C
M-104

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GENERAL NOTES:

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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 DIAGRAMS.
5. SEE SHEETS MD101 THROUGH MD106 FOR DEMOLITION DRAWINGS.

PLAN NOTES:

(1) 24"X12" EXHAUST GRILLE, 310 CFM.
(2) 6"X6" EXHAUST GRILLE, 60 CFM.
(3) 6"X6" EXHAUST GRILLE, 75 CFM.
(4) 24"X12" EXHAUST GRILLE, 240 CFM.
(5) 6"X6" EXHAUST GRILLE, 110 CFM.
(6) 24"X12" EXHAUST GRILLE, 290 CFM.
(7) 16"X10" EXHAUST DUCT UP. SEE SHEET M-102 FOR CONTINUATION.
(8) 20"X14" EXHAUST DUCT UP. SEE SHEET M-102 FOR CONTINUATION
(9) 24"X12" RETURN AIR GRILL IN CEILING AND OPEN TO RETURN AIR PLENUM.
(10) 24"X24" RETURN AIR GRILL IN CEILING AND OPEN TO RETURN AIR PLENUM.
(11) SEE SHEET M-401 FOR CONTINUATION.
(12) 24"X12" TRANSFER AIR GRILLE. CONNECT TO 16"X8" (LINED) TRANSFER AIR ELBOW AND DUCT. STUB DUCT THRU WALL ABOVE FINISHED CEILING AS INDICATED.
(13) 12"X8" (LINED) TRANSFER AIR DUCT UP THRU WALL ABOVE CEILING.
(14) 2"S&R, 2 1/2"CH&CHR UP. SEE SHEET M-401 FOR CONTINUATION.
(15) 12"X8" SIDEWALL HEAVY DUTY TRANSFER AIR GRILLE. INSTALL GRILL 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.
(16) 12"X8" SIDEWALL HEAVY DUTY TRANSFER AND 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.
(17) 24"X24" EXHAUST DUCT UP THRU ROOF TO EXHAUST FAN EF-A1.
(18) 24"X12" EXHAUST GRILLE, 370 CFM.
(19) 24"X12" EXHAUST GRILLE, 310 CFM.
(20) 12"X6" EXHAUST GRILLE, 175 CFM.
(21) 24"X12" EXHAUST GRILLE, 500 CFM.
(22) STACK 24"X14" (ABOVE) AND 18"X8" (BELOW) EXHAUST DUCTS.
(23) 12"X12" EXHAUST DUCT UP THRU ROOF TO EXHAUST FAN EF-A2.
(24) O.A. INTAKE LOUVER BY THE G.C.
(25) 2 1/2"S&R, 8"CH&CHR SEE SHEET M-103 FOR CONTINUATION.
(26) TEMPERATURE CONTROL PANEL (AHU-A2).
(27) VARIABLE FREQUENCY DRIVE (AHU-A2).
(28) 1 1/2"S&R TO HEATING COIL AND RE-HEAT COIL.

SI.15

(29) NOT USED.
(30) NOT USED.
(31) NOT USED.
(32) EXISTING GYM UNDERFLOOR VENTILATION TRENCH.
(33) 1 1/2"S&R AND 2"CH&CHR UP. SEE SHEET M-401 FOR CONTINUATION.
(34) SEE SHEET M-103 FOR CONTINUATION.

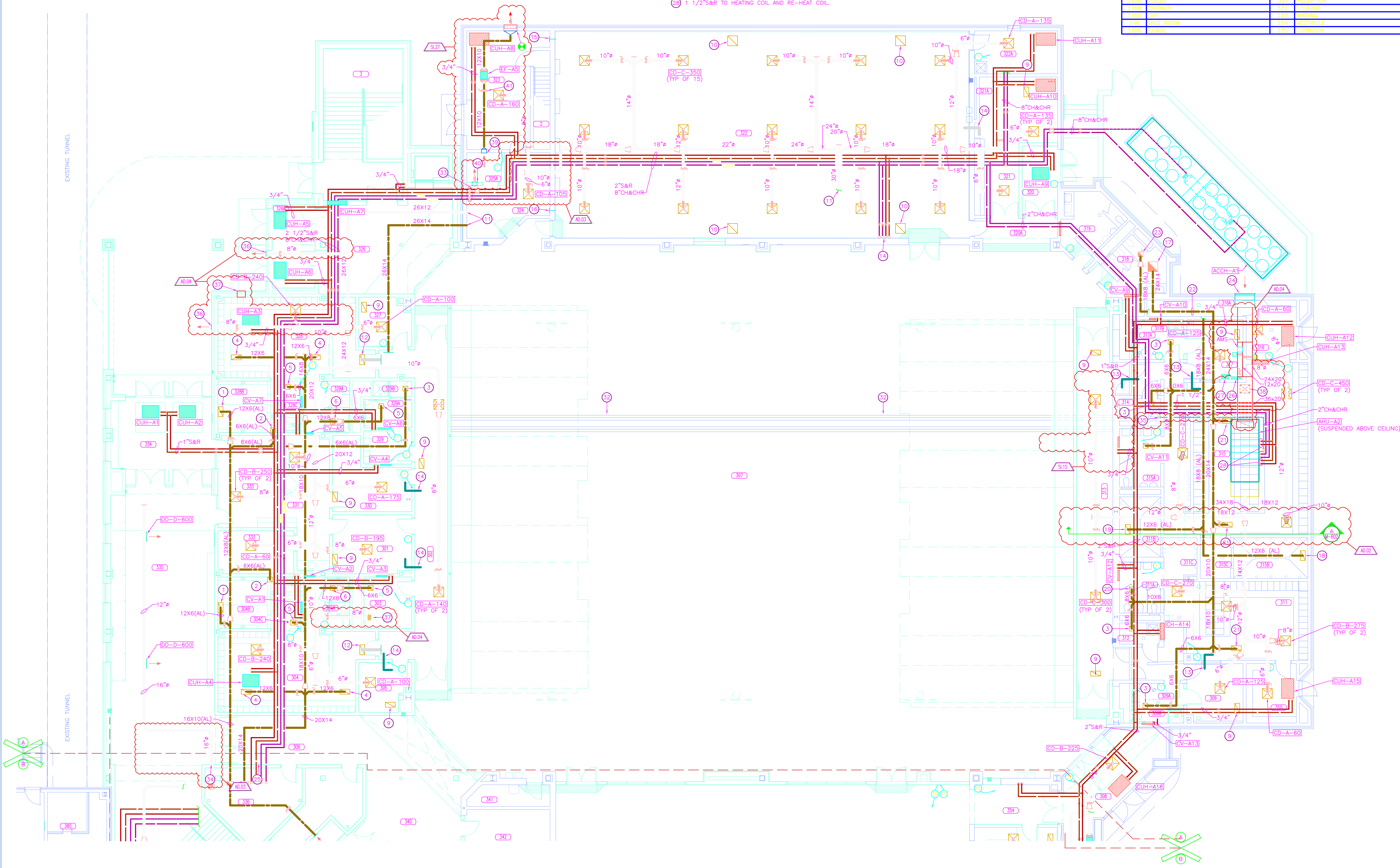
AD.03 AD.04

(35) TERMINATE 1" CONDENSATE 6" ABOVE MOP SINK.
(36) 10"X6" SUPPLY GRILLE, 200 CFM. GRILLE SHALL BE MOUNTED ABOVE CEILING AND DISCHARGE INTO CAVITY BELOW BALCONY.
(37) 20"X6" TRANSFER AIR GRILLE. GRILLE SHALL BE MOUNTED ABOVE CEILING AND TRANSFER AIR FROM CAVITY BELOW BALCONY.
(38) 24"X20" RA OPENING ON BOTTOMN OF DUCT WITH TEMPERATURE CONTROL DAMPER.

SI.27

(39) 12"X12" EXHAUST GRILLE WITH FIRE DAMPER, 650 CFM.
(40) 12"X12" TRANSFER AIR GRILLE ON EACH SIDE OF WALL. CONNECT WITH SHEETMETAL SLEEVE AND FIRE DAMPER.
(41) ADJUST VOLUME DAMPER, AS NEEDED, TO MAINTAIN A MINIMUM SYSTEM STATIC PRESSURE 0.625" WC.

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



UNIT "A" MECHANICAL FIRST FLOOR PLAN

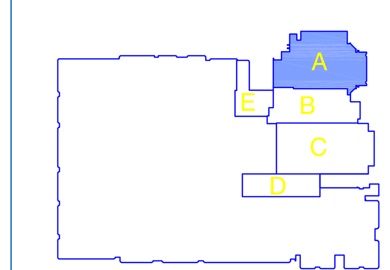
SCALE: 1/8" = 1'-0"

PLAN NORTH

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

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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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	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

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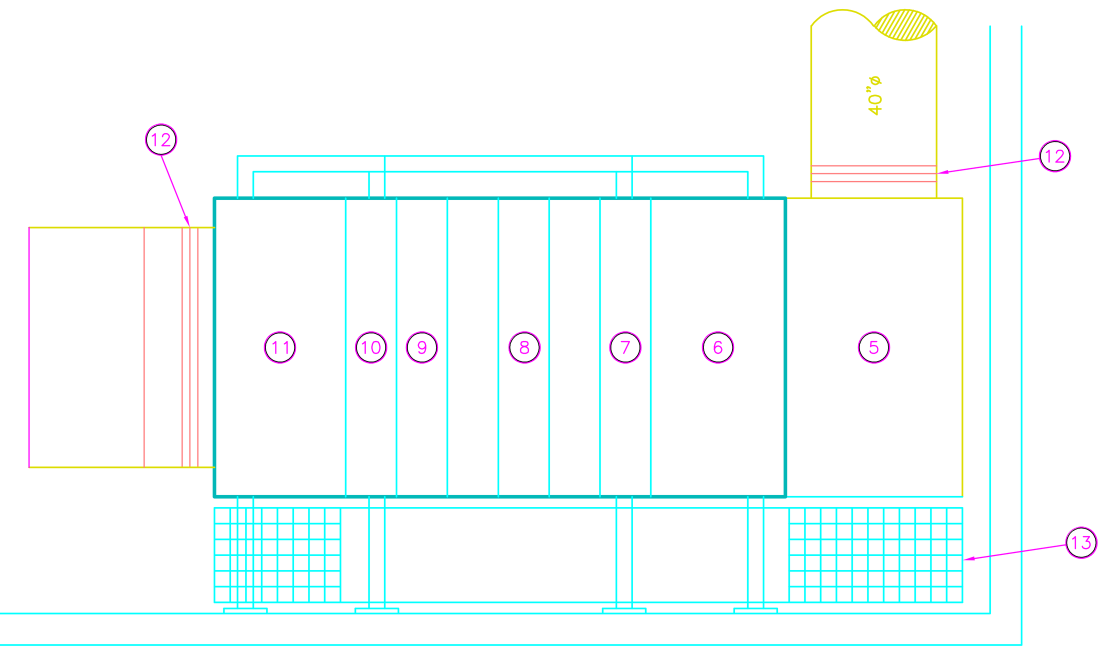
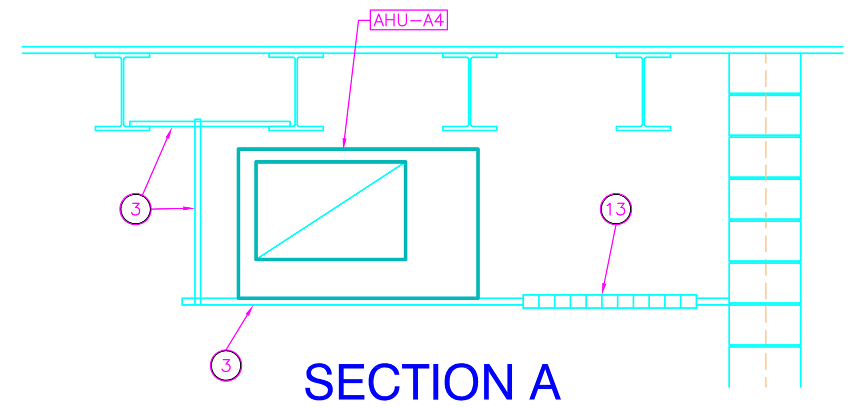
A

SHEET
M-101



PARTIAL PLAN

SCALE: NONE



SECTION A

SCALE: NONE

ROOM NAME SCHEDULE	
NO	NAME
2	STAIR
3	STAIR
325	ELEVATOR
394	BALCONY
395	MECHANICAL
396	MECHANICAL
397	BALCONY
397A	ALCOVE

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 DIAGRAMS.
5. SEE SHEETS MD101 THROUGH MD106 FOR DEMOLITION DRAWINGS.

PLAN NOTES:

SI.__

(1) 42"X83" RELIEF OPENING UP TO EXISTING LOUVER PENTHOUSE ON ROOF. SEE GYM RELIEF DETAIL (THIS SHEET) FOR DETAILS.

(2) 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.

(3) MECHANICAL CONTRACTOR TO PROVIDE STRUCTURAL SUPPORTS AS REQUIRED TO SUSPEND AIR HANDLING UNIT FROM BUILDING ROOF STRUCTURE ABOVE.

(4) SEE SHEET M-401 FOR CONTINUATION.

(5) SHEET METAL SUPPLY PLENUM.

(6) FAN SECTION.

(7) PREHEAT COIL.

(8) COOLING COIL.

(9) PREHEAT COIL.

(10) CARTRIDGE FILTER SECTION.

(11) OUTDOOR AIR/RETURN AIR MIXING PLENUM.

(12) FLEXIBLE CONNECTION.

(13) SERVICE GRATING BY THE MECHANICAL CONTRACTOR.

(14) MOTORIZED CONTROL DAMPER.

(15) STACK 2"S&R, 3"CH&CHR VERTICALLY ALONG INTERIOR FACE OF WALL. PIPES SHOWN APART FOR CLARITY.

(16) INSTALL 6" LONG SHEETMETAL BAFFLE AT CONNECTION OF OUTSIDE AIR DUCT TO MIXED AIR PLENUM.

(17) 2"S&R, 3"CH&CHR DOWN TO AIR HANDLING UNIT COIL.

(18) 2"S&R DOWN TO AIR HANDLING UNIT COIL.

(19) 2"S&R, 3"CH&CHR DOWN AND THROUGH WALL. SEE SHEET M-103 FOR CONTINUATION.

(20) 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.

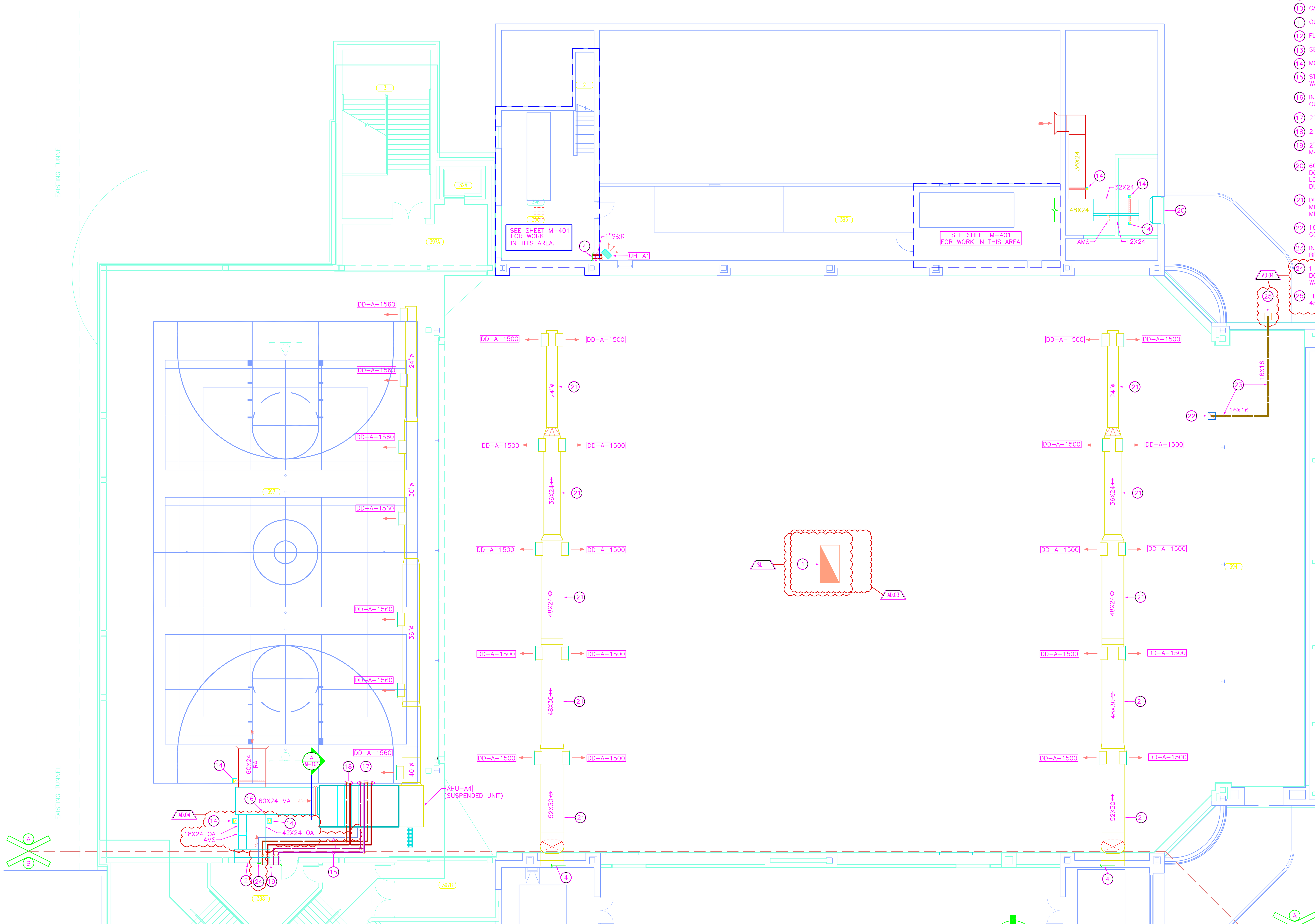
(21) DUCT SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS. FIELD VERIFY CONDITIONS AND STRUCTURAL MEMBERS/WEBBING.

(22) 16"X16" EXHAUST DUCT DOWN. SEE SHEET M-101 FOR CONTINUATION.

(23) INSTALL EXHAUST DUCT ALONG TOP OF NEW STRUCTURAL SLAB, BELOW BLEACHERS.

(24) 1 1/4" CONDENSATE THRU WALL. TERMINATE WITH A 90° ELBOW DOWN AND DISCHARGE ONTO LOW ROOF. SEAL PENETRATIONS WATER AND AIR TIGHT.

(25) TERMINATE 16"X16" EXHAUST DUCT THRU EXTERIOR WALL WITH 45° GOOSENECK DOWN. PROVIDE BIRDSCREEN OVER OPENING.



UNIT "A" MECHANICAL SECOND FLOOR PLAN

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

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

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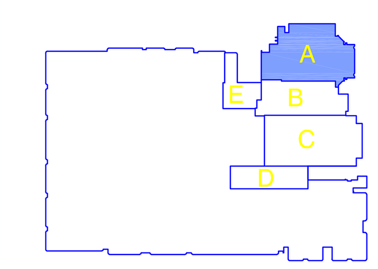
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



KEY PLAN

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PROJECT 06-612
DATE 03/19/07
COORDINATED BY RWN
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
UNIT "A" MECHANICAL SECOND FLOOR PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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A

SHEET M-102

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

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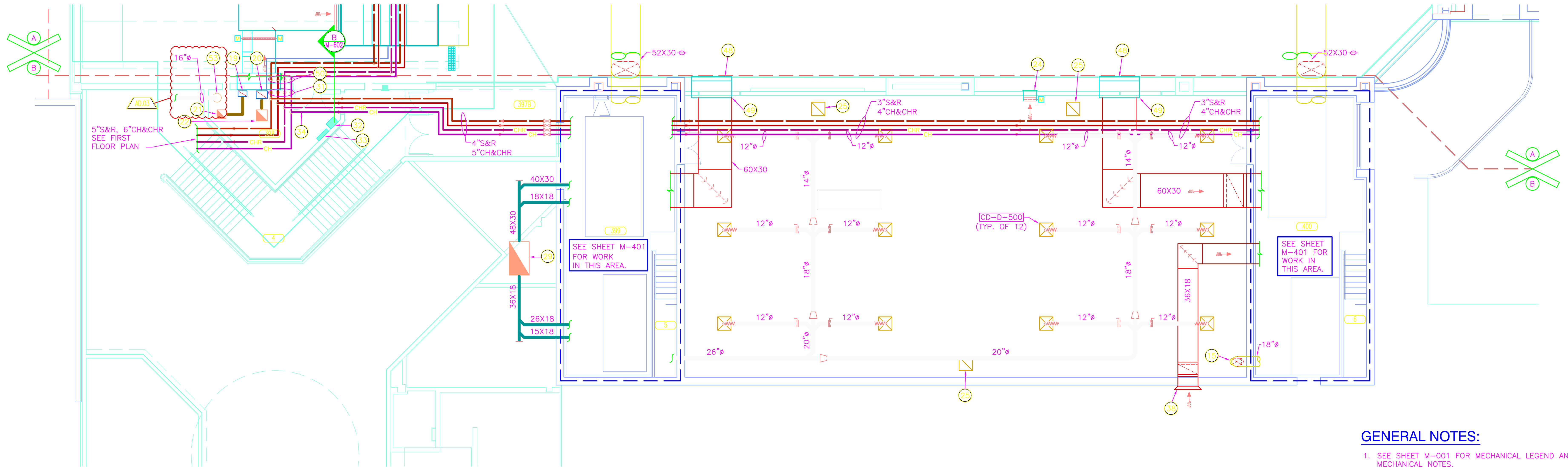
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP

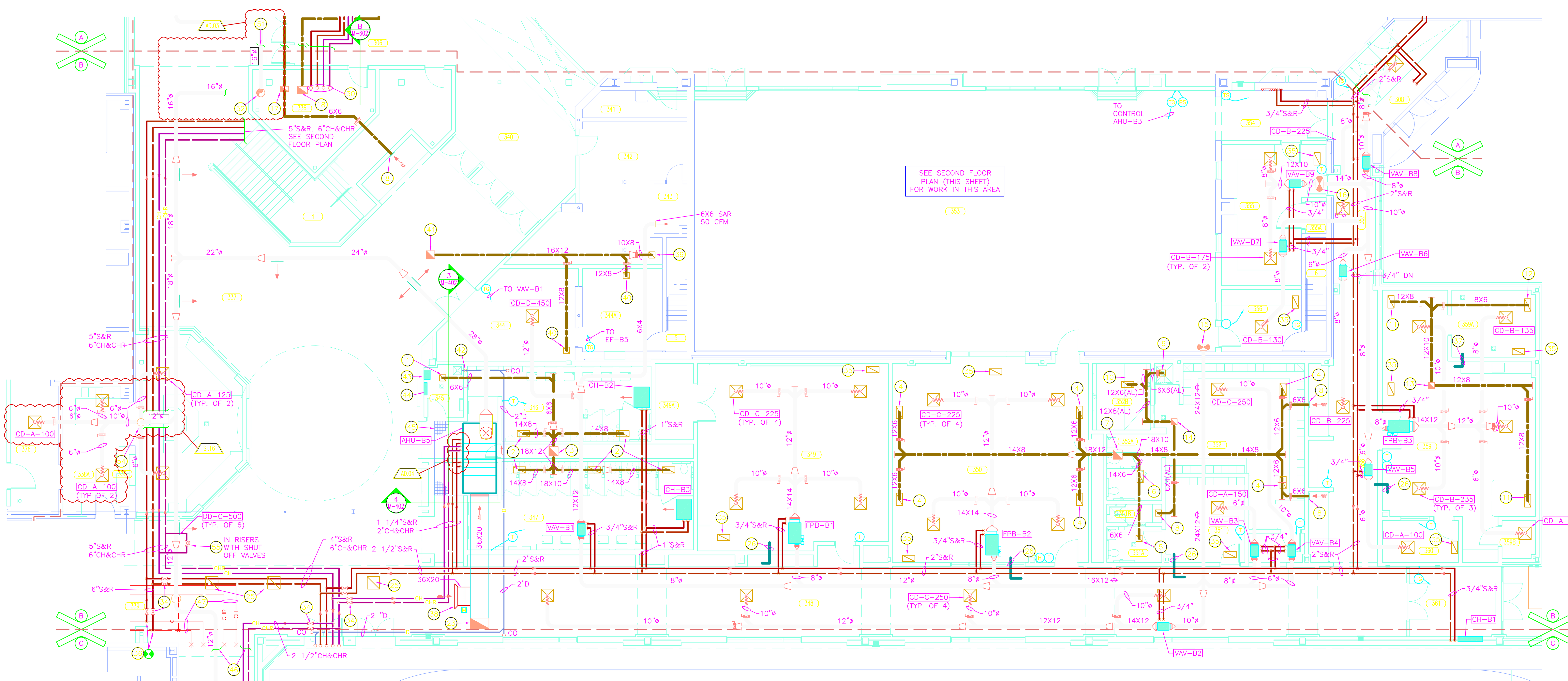


UNIT "B" MECHANICAL SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

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 DIAGRAMS.
5. SEE SHEETS MD101 THROUGH MD106 FOR DEMOLITION DRAWINGS.

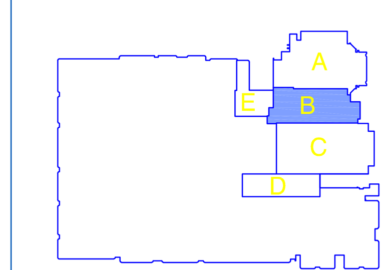
PLAN NOTES:
1. 6"X6" EXHAUST GRILLE, 115 CFM.
2. 24"X12" EXHAUST GRILLE, 435 CFM.
3. 18"X18" EXHAUST DUCT UP THRU ROOF TO EF-B1.
4. 24"X12" EXHAUST GRILLE, 250 CFM.
5. 12"X6" EXHAUST GRILLE, 100 CFM.
6. 24"X12" EXHAUST GRILLE, 190 CFM.
7. 18"X18" EXHAUST DUCT UP THRU ROOF TO EF-B3.
8. 6"X6" EXHAUST GRILLE, 75 CFM.
9. 6"X6" EXHAUST GRILLE, 50 CFM.
10. 24"X12" EXHAUST GRILLE, 300 CFM.
11. 24"X12" EXHAUST GRILLE, 385 CFM.
12. 12"X6" EXHAUST GRILLE, 150 CFM.
13. 12"X12" EXHAUST DUCT UP THRU ROOF TO EF-B4.
14. 12"X12" EXHAUST DUCT UP THRU ROOF TO EF-B2.
15. 24"X12"⊖ SUPPLY DUCT UP. SEE SECOND FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
16. 14"X12"⊖ SUPPLY DUCT UP. SEE SECOND FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
17. 16"X10" EXHAUST DUCT UP.
18. 20"X14" EXHAUST DUCT UP.
19. 16"X10" EXHAUST DUCT DOWN.
20. 20"X14" EXHAUST DUCT DOWN.
21. 16"X16" EXHAUST DUCT UP THRU ROOF TO EF-A4.
22. 20"X20" EXHAUST DUCT UP THRU ROOF TO EF-A3.
23. 36"X20" OUTDOOR AIR INTAKE PLENUM UP THRU ROOF TO INTAKE GRAVITY VENTILATOR ON ROOF.
24. 24"X24" RELIEF GRILLE IN WALL AND 24"X24" DUCT TO MOTORIZED RELIEF DAMPER. INSTALL GRILLE AND DUCT AT 16'-0" ABOVE FINISHED FLOOR.
25. 24"X24" EGGCRATE RETURN AIR GRILLE IN LAY-IN CEILING AND OPEN TO CEILING PLENUM.
26. 24"X12" TRANSFER AIR DUCT THRU WALL, SEE DETAIL.
27. EXISTING CABINET HEATER, PROVIDE NEW PIPING.
28. EXISTING CONVECTOR, PROVIDE NEW PIPING.
29. 60"X36" DUCT UP TO 60"X36"X48" HIGH OUTDOOR AIR INTAKE PENTHOUSE ON ROOF.
30. 2 1/2"S&R, 8"CH&CHR UP, SEE SECOND FLOOR PLAN THIS SHEET.
31. 2 1/2"S&R, 8"CH&CHR DOWN, SEE FIRST FLOOR PLAN THIS SHEET.
32. VARIABLE FREQUENCY DRIVE, AHU-A5.
33. TEMPERATURE CONTROL PANEL, AHU-A5.
34. PROVIDE SHUT-OFF VALVES IN PIPING MAINS AT THIS LOCATION.
35. 24"X12" EGGCRATE RETURN AIR GRILLE IN LAY-IN CEILING AND OPEN TO CEILING PLENUM.
36. CONNECT NEW 6"S&R TO EXISTING 10" MAINS AT THIS LOCATION.
37. 12"X12" TRANSFER AIR DUCT THRU WALL, SEE DETAIL.
38. PROVIDE 6" LONG, 45° FLARED RETURN AIR INLET.
39. 12"X10" EXHAUST GRILLE, 300 CFM.
40. 12"X12" EXHAUST GRILLE, 500 CFM.
41. 16"X16" EXHAUST DUCT UP THRU ROOF TO EF-B5.
42. 2" CONDENSATE DRAIN DOWN, TERMINATE 6" ABOVE MOP SINK BASIN.
43. VARIABLE FREQUENCY DRIVE, AHU-B5.
44. TEMPERATURE CONTROL PANEL, AHU-B5.
45. SERVICE GRATING BY THE MECHANICAL CONTRACTOR.
46. 2 1/2"CH&CHR, SEE SHEET M-106 FOR CONTINUATION.
47. EXISTING PIPING TO REMAIN.
48. 6'-4" X 5'-4" RETURN AIR GRILLE. SEE ARCHITECTURAL PLANS FOR DETIALS.
49. 6'-4 X 5'-4" X 2'-6" DEEP RETURN AIR PLENUM.
50. 2"S&R, 3"CH&CHR UP. SEE SHEET M-102 FOR CONTINUATION.
51. SEE SHEET M-101 FOR CONTINUATION.
52. 16"ø SUPPLY UP. SEE SECOND FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
53. 16"ø SUPPLY DOWN. SEE FIRST FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
54. 10"ø SUPPLY DUCT DOWN TO CONCESSION AREA.
55. TEMPORARY BYPASS VALVE.

AD.03
AD.04
SI.025



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

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



KEY PLAN

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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.

DRAWING
UNIT "B" MECHANICAL FIRST AND SECOND FLOOR PLANS

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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B

SHEET
M-103

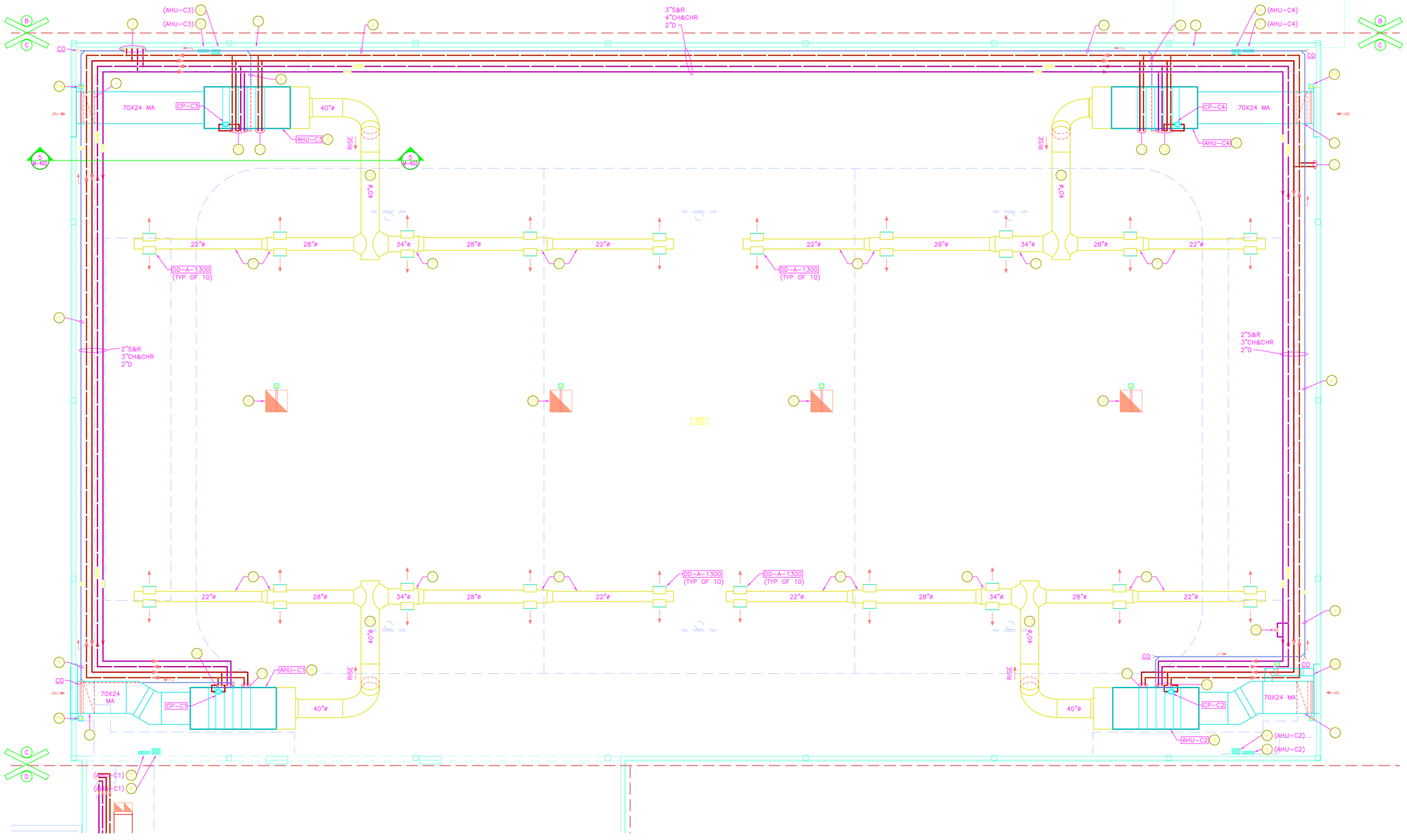
GENERAL NOTES:

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 DIAGRAMS.
5. SEE SHEETS MD101 THROUGH MD106 FOR DEMOLITION DRAWINGS.
6. ALL DUCT IN MULTI-PURPOSE GYM (363) SHALL BE 1" DOUBLE WALL INTERALLY INSULATED DUCT AND FITTINGS WITH EXTERIOR PAINT GRIP SURFACE.

PLAN NOTES:

1. 70"X24" RETURN AIR DUCT DOWN. SEE SHEET M-104 FOR CONTINUATION.
2. 2"S&R DOWN. SEE SHEET M-104 FOR CONTINUATION.
3. 4"S&R, 5"CH&CHR, 2"D DOWN. SEE SHEET M-104 FOR CONTINUATION.
4. INSTALL CONDENSATE DRAIN BELOW CATWALK.
5. AHU TEMPERATURE CONTROL PANEL (48" ABOVE CATWALK).
6. AHU VARIABLE FREQUENCY DRIVE (48" ABOVE CATWALK).
7. COORDINATE LOCATION AND SUPPORT OF DUCTWORK THRU TRUSS WEBBING WITH TRUSS MANUFACTURER.
8. 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.
9. 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.
10. 2" S&R, 3"CH&CHR DOWN TO AIR HANDLING UNIT COILS.
11. 2" S&R DOWN TO AIR HANDLING UNIT COIL.
12. DUCT SHALL BE INSTALLED UP BETWEEN STRUCTURAL MEMBERS. FIELD VERIFY CONDITIONS AND STRUCTURAL MEMBERS/WEBBING.
13. 4'-0" X 4'-0" X 1'-6" DEEP OUTDOOR INTAKE PLENUM. CONSTRUCT 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.
14. MOTORIZED CONTROL DAMPER.
15. 4" CHILLED WATER BYPASS LINE.

ROOM NAME SCHEDULE	
NO.	NAME
363	MULTI-PURPOSE/GYMNASIUM



UNIT "C" MECHANICAL SECOND FLOOR PLAN

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

NORTH
PLAN NORTH

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

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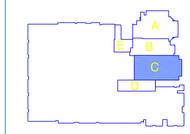
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



KEY PLAN

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PROJECT 06-612
DATE 03/19/07
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REVISIONS:

MARK	DATE	ISSUED FOR
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DRAWING
UNIT "C" MECHANICAL SECOND FLOOR PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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SHEET
C
M-105

Tue, 6/07/2016 - 4:46 pm
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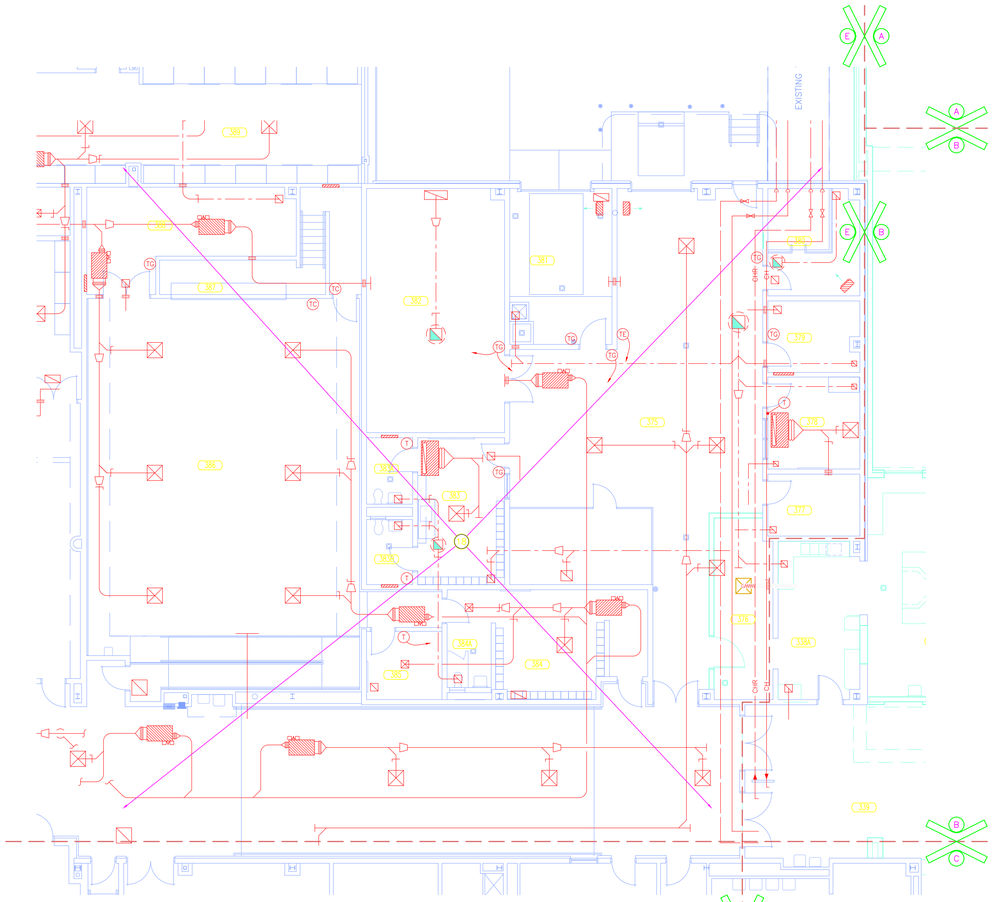
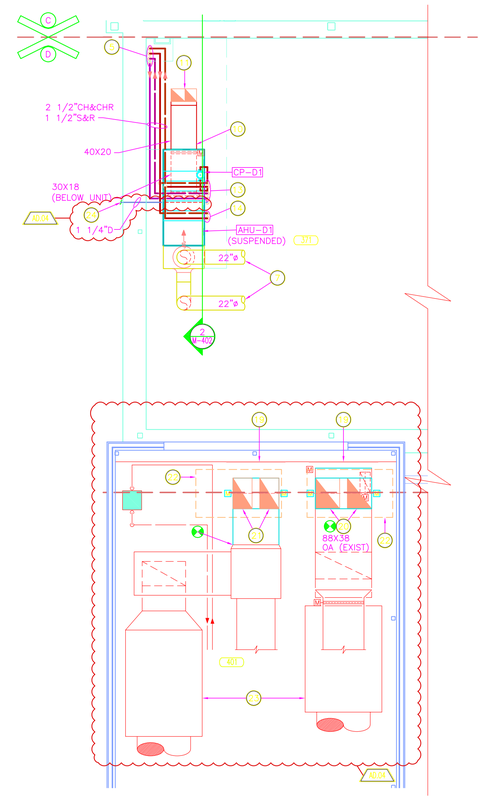


UNIT "E" MECHANICAL FIRST FLOOR PLAN

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

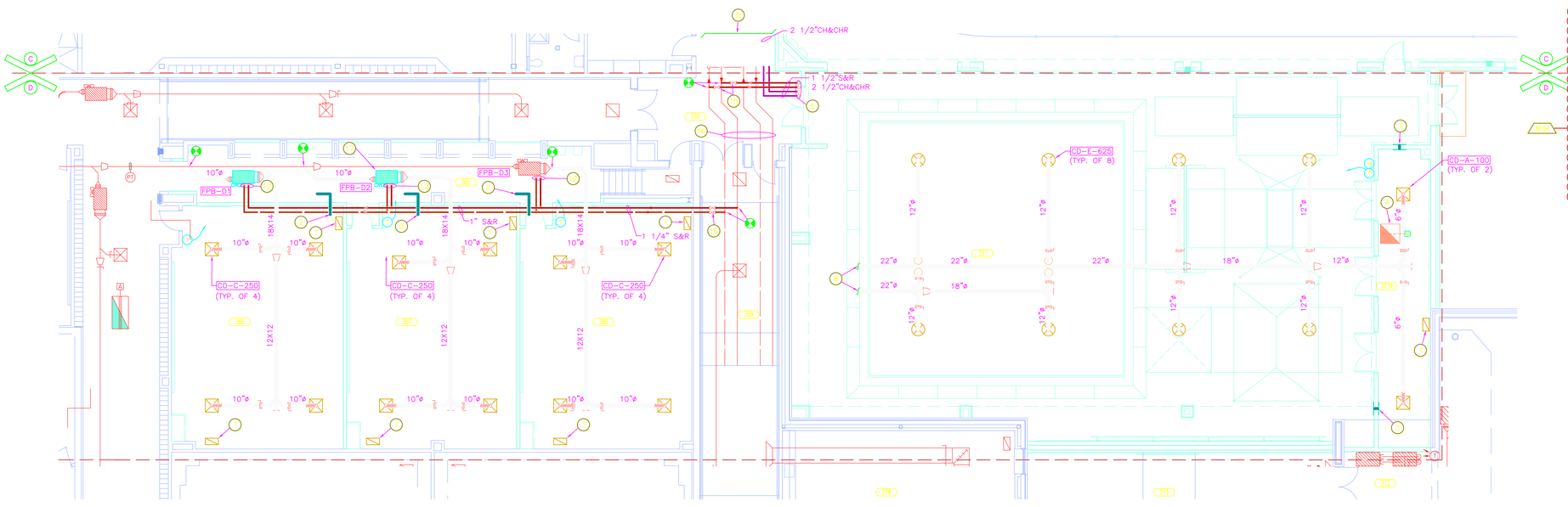
PLAN NORTH



UNIT "D" MECHANICAL SECOND FLOOR PLAN

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

PLAN NORTH



UNIT "D" MECHANICAL FIRST FLOOR PLAN

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

PLAN NORTH

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

ROOM NAME SCHEDULE

NO	NAME
365	CORRIDOR
366	CLASSROOM
367	CLASSROOM
368	CLASSROOM
369	CORRIDOR
370	CORRIDOR
371	GYMNASTICS
371A	STORAGE
375	RECORDING
376	STORAGE
377	TELECOM
378	OFFICE
379	STORAGE
380	SHOWERS
381	COMPACTOR
382	ELECTRICAL
383	LOUNGE
383A	TOILET
383B	TOILET
384	LOUNGE
384A	TOILET
385	OFFICE
386	REHEARSAL
387	PLATFORM
388	STORAGE
389	UNIFORM
390	UNIFORM
391	PERCUSSION
392	LARGE INSTRUMENT
400	CHILLER
401	MECHANICAL

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 DIAGRAMS.
5. SEE SHEETS MD101 THROUGH MD106 FOR DEMOLITION DRAWINGS.

PLAN NOTES:

1. 24"X12" RETURN AIR GRILLE IN CEILING AND OPEN TO RETURN AIR PLENUM.
2. 24"X16" (LINED) TRANSFER AIR DUCT THRU WALL ABOVE CEILING.
3. 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.
4. 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 GYMNASTICS 370. SEE TYPICAL RELIEF VENT DETAIL.
5. 1 1/2"S&R AND 2 1/2"CH&CHR DOWN. SEE FIRST FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
6. 2 1/2"S&R AND 2 1/2"CH&CHR UP. SEE FIRST FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
7. SEE FIRST FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
8. SEE SECOND FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
9. SEE SHEET M-104 FOR CONTINUATION.
10. AIR MEASURING STATION.
11. 40"X20" OUTDOOR INTAKE DUCT UP THRU ROOF TO GRAVITY INTAKE HOOD.
12. 3/4"S&R PIPING DROP TO AIR TERMINAL UNIT.
13. 1 1/2"S&R, 2 1/2"CH&CHR DOWN TO AIR HANDLING UNIT COIL.
14. 1 1/2"S&R DOWN TO AIR HANDLING UNIT COIL.
15. INSTALL SHUT-OFF VALVES AT THIS LOCATION.
16. EXISTING PIPING MAINS TO REMAIN.
17. RELOCATED EXISTING FAN POWERED VAV TERMINAL.
18. NO WORK REQUIRED IN THIS AREA.
19. COVER HOLE IN EXISTING SHEETMETAL PLENUM WITH 1" DOUBLE WALL INSULATED PANEL.
20. 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.
21. 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.
22. NEW LOUVERED PENTHOUSE ON ROOF. SEE SHEET MR101 FOR INFORMATION.
23. EXISTING AIR HANDLING UNIT.
24. 1 1/4" CONDENSATE THRU WALL. TERMINATE WITH 90° ELBOW DOWN AND DISCHARGE ONTO LOW ROOF. SEAL PENETRATIONS WATER AND AIR TIGHT.

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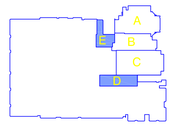
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



KEY PLAN

GIBRALTAR DESIGN
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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

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SHEET: D, E — M-106

Tue, 8/07/2018 - 4:46 pm
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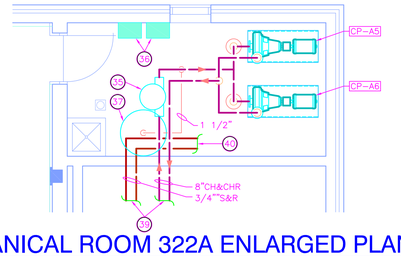
GENERAL NOTES:

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

PLAN NOTES:

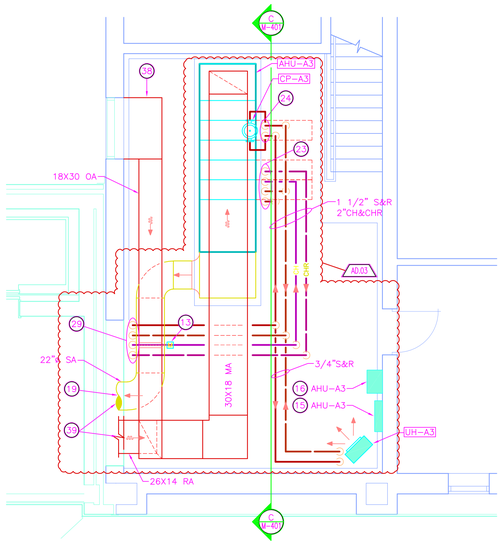
1. FLEXIBLE DUCT CONNECTION.
2. FAN SECTION WITH ACCESS DOOR AND INTERNAL VIBRATION ISOLATION MOTOR AND FAN ASSEMBLY.
3. COOLING COIL SECTION.
4. HEATING COIL SECTION.
5. ANGLED FILTER/MIXING SECTION WITH ACCESS DOOR.
6. TRAPPED CONDENSATE DRAIN, TERMINATE OVER NEAREST FLOOR DRAIN.
7. 4" CONCRETE HOUSEKEEPING PAD BY G.C.
8. MIXED AIR PLENUM (SIZE TO MATCH FILTER/MIXING BOX SECTION OPENING DIMENSIONS).
9. FLAT FILTER SECTION WITH ACCESS DOOR AND 4"-65% FILTERS.
10. BLANK SECTION WITH ACCESS DOORS.
11. SUPPLY AIR DISCHARGE PLENUM SECTION WITH ACCESS DOOR INTERIOR PLENUM WALL SHALL BE PERFORATED. PROVIDE GRATE OVER FLOOR OPENINGS. (FIELD CUT DUCT CONNECTIONS)
12. 8" BASE RAIL, PROVIDE BY THE AIR HANDLING UNIT MANUFACTURER.
13. MOTORIZED CONTROL DAMPER.
14. REHEAT COIL SECTION.
15. TEMPERATURE CONTROL PANEL.
16. VARIABLE FREQUENCY DRIVE.
17. AIR FLOW MEASURING STATION.
18. CONNECT SUPPLY AIR DUCT TO AIR HANDLING UNIT WITH A BELLMOUTH FITTING.
19. 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.
20. PROVIDE SHUT-OFF VALVES IN RISER PIPES.
21. EXISTING OUTDOOR AIR INTAKE LOUVER TO REMAIN.
22. 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.
23. 1 1/2"S&R, 2"CH&CHR DOWN TO AHU-A3.
24. 1 1/2"S&R DOWN TO AHU-A3.
25. 2 1/2"S&R, 4"CH&CHR DOWN TO AHU-B1.
26. 2"S&R DOWN TO AHU-B1.
27. 2 1/2"S&R, 4"CH&CHR DOWN TO AHU-B2.
28. 2"S&R DOWN TO AHU-B2.
29. 1 1/2"S&R, 2"CH&CHR DOWN THRU FLOOR, SEE SHEET M-101 FOR CONTINUATION.
30. SEE SHEET M-102 FOR CONTINUATION.
31. SEE SHEET M-103 FOR CONTINUATION.
32. 2"S&R, 2 1/2"CH&CHR DOWN TO AHU-B3.
33. 54"X30" OUTSIDE AIR DUCT UP THRU ROOF TO INTAKE VENTILATOR.
34. PROVIDE 6" LONG, 45° FLARED RETURN AIR INLET FITTING.
35. CHILLED WATER SYSTEM AIR SEPARATOR.
36. VARIABLE FREQUENCY DRIVE FOR CIRCULATING PUMPS.
37. CHILLED WATER SYSTEM EXPANSION TANK.
38. 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.
39. SEE SHEET M-101 FOR CONTINUATION.
40. 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 322A ENLARGED PLAN

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



MECHANICAL ROOM 396 ENLARGED PLAN

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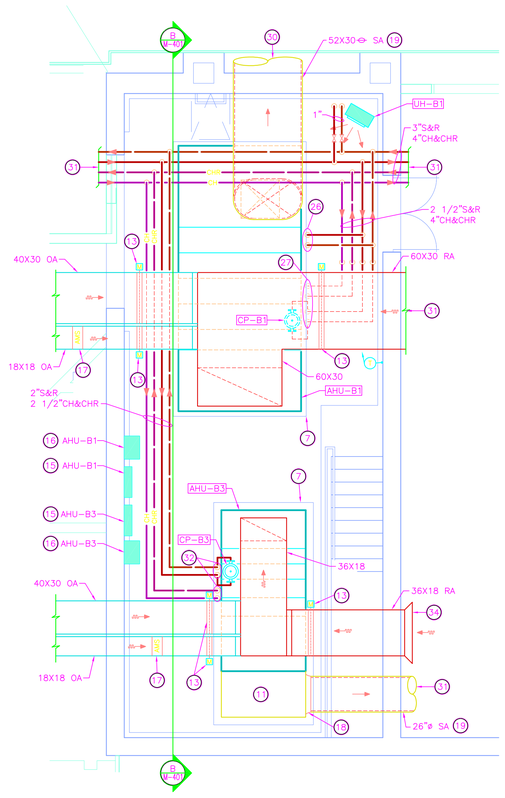

MECHANICAL ROOM 399 ENLARGED PLAN

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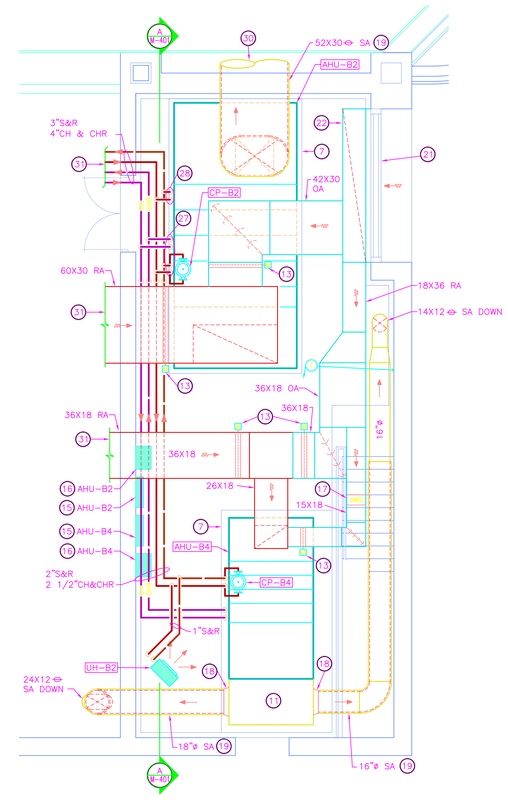
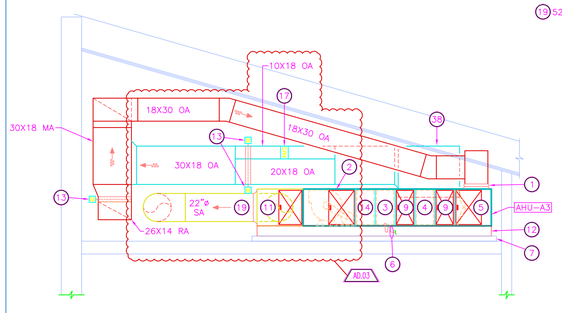


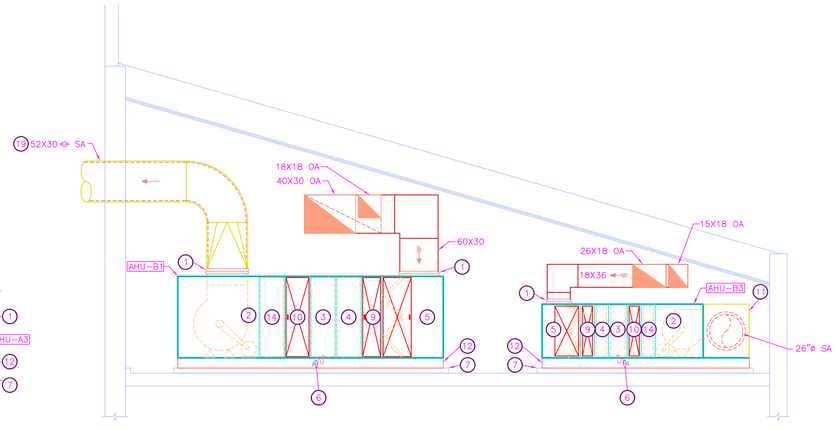
MECHANICAL ROOM 400 ENLARGED PLAN

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



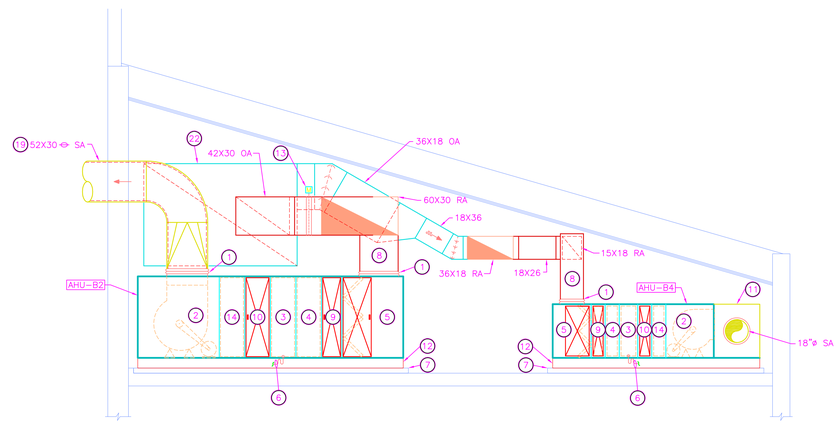
AIR HANDLING UNIT SECTION

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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PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
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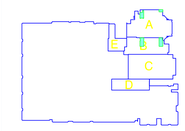

KEY PLAN

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Indianapolis, IN 46260
Homepage: www.GibraltarDesign.com
Email: info@GibraltarDesign.com
Phone 317.580.9777 Fax 317.580.5778

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
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

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SHEET
M-401

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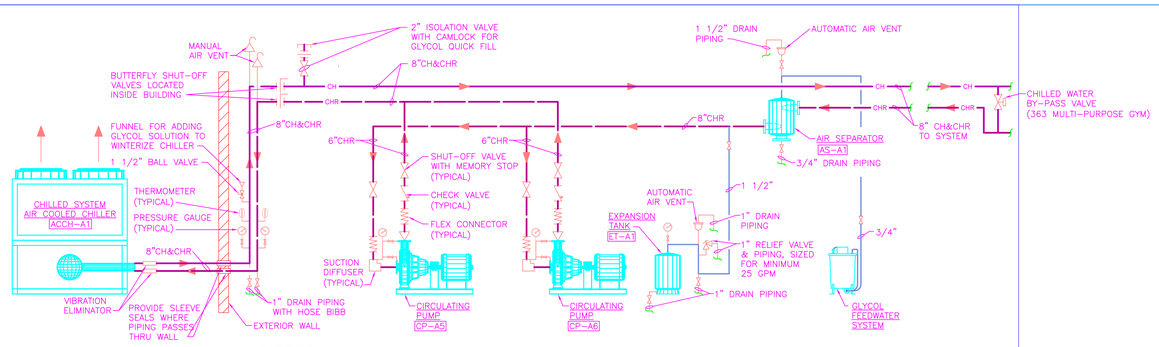
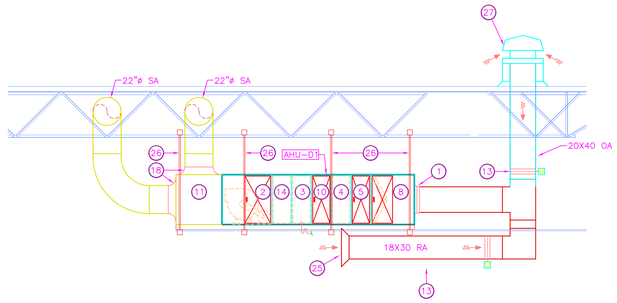


NOTES:

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

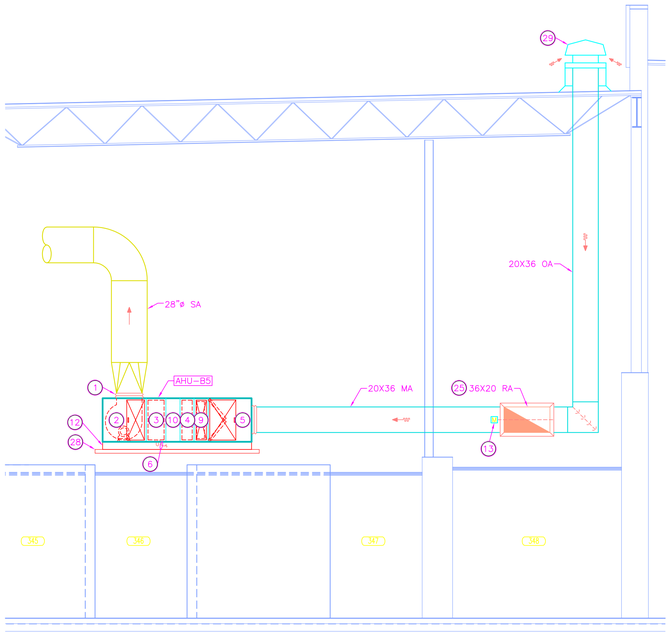
CHILLED WATER SYSTEM PIPING DIAGRAM

NOT TO SCALE (GLYCOL FEEDWATER SYTEM)



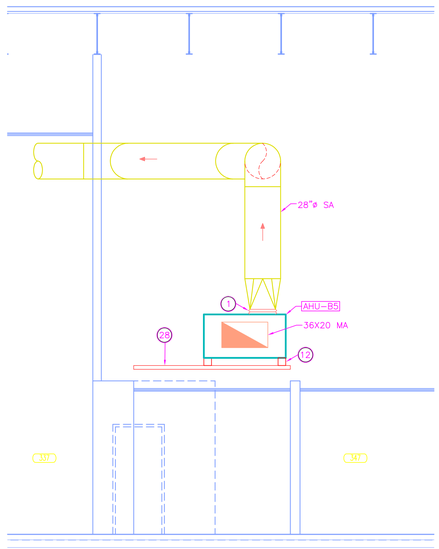
AIR HANDLING UNIT SECTION

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



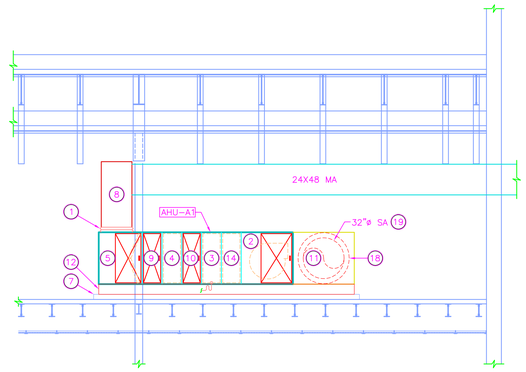
AIR HANDLING UNIT SECTION

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



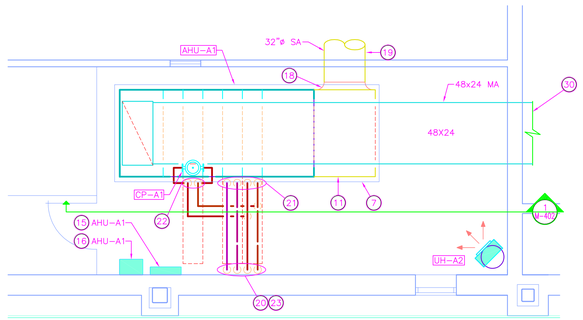
AIR HANDLING UNIT SECTION

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



AIR HANDLING UNIT SECTION

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

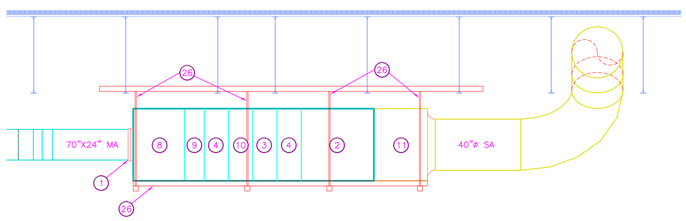


MECHANICAL ROOM 395 ENLARGED PLAN

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

NORTH

PLAN NORTH



AIR HANDLING UNIT SECTION

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

GENERAL NOTES:

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

PLAN NOTES:

1. FLEXIBLE DUCT CONNECTION.
2. FAN SECTION WITH ACCESS DOOR AND INTERNAL VIBRATION ISOLATION MOTOR AND FAN ASSEMBLY.
3. COOLING COIL SECTION.
4. HEATING COIL SECTION.
5. ANGLED FILTER/MIXING SECTION WITH ACCESS DOOR.
6. TRAPPED CONDENSATE DRAIN, TERMINATE OVER NEAREST FLOOR DRAIN.
7. 4" CONCRETE HOUSEKEEPING PAD BY G.C.
8. MIXED AIR PLENUM (SIZE TO MATCH FILTER/MIXING BOX SECTION OPENING DIMENSIONS).
9. FLAT FILTER SECTION WITH ACCESS DOOR AND 4"-65% FILTERS.
10. BLANK SECTION WITH ACCESS DOORS.
11. 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.
12. 8" BASE RAIL, PROVIDE BY THE AIR HANDLING UNIT MANUFACTURER.
13. MOTORIZED CONTROL DAMPER.
14. REHEAT COIL SECTION.
15. TEMPERATURE CONTROL PANEL.
16. VARIABLE FREQUENCY DRIVE.
17. AIR FLOW MEASURING STATION.
18. CONNECT SUPPLY AIR DUCT TO AIR HANDLING UNIT WITH A BELLMOUTH FITTING.
19. 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.
20. PROVIDE SHUT-OFF VALVES IN RISER PIPES.
21. 1 1/2"S&R, 2 1/2"CH&CHR DOWN TO AHU-A1.
22. 1 1/2"S&R DOWN TO AHU-A1.
23. 2"S&R, 2 1/2"CH&CHR DOWN THRU FLOOR, SEE SHEET M-101 FOR CONTINUATION.
24. 54"X30" OUTSIDE AIR DUCT UP THRU ROOF TO INTAKE VENTILATOR.
25. PROVIDE 6" LONG, 45° FLARED RETURN AIR INLET FITTING.
26. MECHANICAL CONTRACTOR TO PROVIDE STRUCTURAL SUPPORTS AS REQUIRED TO SUSPEND AIR HANDLING UNIT FROM BUILDING ROOF STRUCTURE ABOVE.
27. 50"X32" GRAVITY INTAKE VENTILATOR (42"X24" THROAT). SIMILAR TO GREENHECK GRI MODEL. INCLUDE BIRDSCREEN.
28. SERVICE GRATING BY THE MECHANICAL CONTRACTOR.
29. GRAVITY INTAKE VENTILATOR, SIMILAR TO GREENHECK GRI MODEL. INCLUDE BIRDSCREEN.

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

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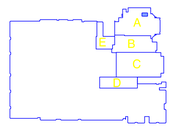
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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
DRAWN BY WAB
CHECKED BY CAC

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REVISIONS

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

DRAWING
MECHANICAL ROOM 395 ENLARGED PLAN AND MECHANICAL SECTIONS AND DIAGRAMS

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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M-402

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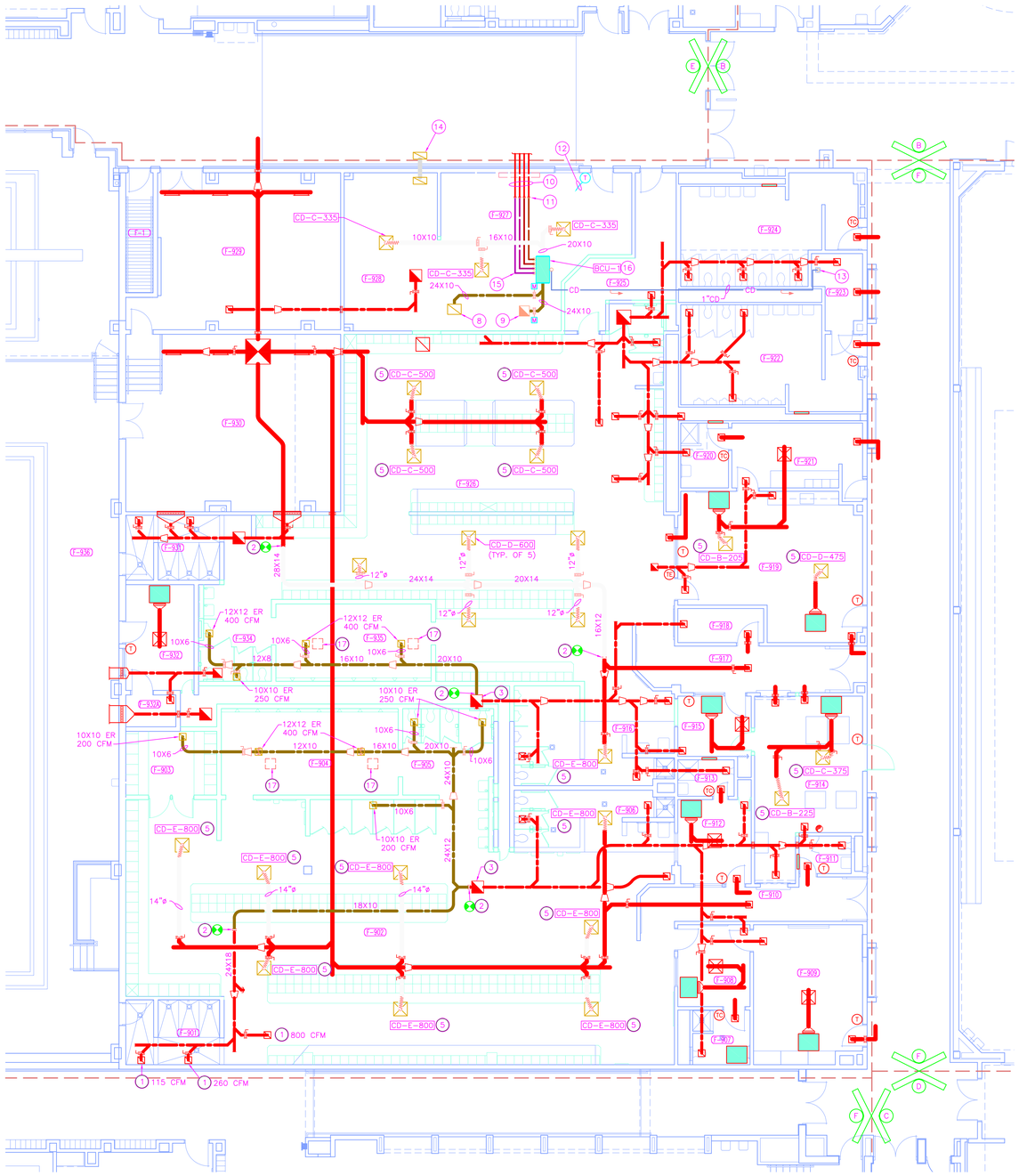
ROOM SCHEDULE	
NO.	DESCRIPTION
F-325	STAIR
F-326	CORRIDOR
F-901	POOL SHOWER
F-902	GIRLS' LOCKER ROOM
F-903	SWIM LOCKERS
F-904	GIRLS SHOWER / DRY
F-905	TOILET
F-906	TOILET
F-907	TOILET
F-908	OFFICE
F-909	PHYSICIAN
F-910	PASSAGE
F-911	TOILET
F-912	OFFICE
F-913	TOILET
F-914	LAUNDRY
F-915	OFFICE
F-916	TOILET
F-917	PASSAGE
F-918	STORAGE
F-919	PHYSICIAN
F-920	TOILET
F-921	LOCKER
F-922	BOYS
F-923	JANITOR
F-924	GIRLS
F-925	PASSAGE
F-926	BOYS' LOCKER ROOM
F-927	HOSPITALITY
F-928	KITCHEN
F-929	MECHANICAL
F-930	POOL EQUIPMENT ROOM
F-931	POOL SHOWER
F-932	OFFICE
F-932A	STORAGE
F-934	TOILET



PLAN NOTES:

1. RE-INSTALL EXHAUST REGISTER IN NEW LAY-IN CEILING AND REBALANCE TO AIR QUANTITY INDICATED.
2. CONNECT NEW EXHAUST DUCT TO EXISTING EXHAUST SYSTEM AT THIS POINT.
3. EXISTING EXHAUST FAN TO REMAIN.
4. CAP EXISTING EXHAUST DUCT AT THIS POINT.
5. PROVIDE AND INSTALL A NEW SUPPLY DIFFUSER AND FLEXIBLE DUCT. DIFFUSER TO BE INSTALLED IN LAY-IN CEILING.
6. CONNECT NEW 28"X14" SUPPLY DUCT TO EXISTING SUPPLY DUCT AT THIS POINT.
7. EXISTING SUPPLY DUCTWORK TO REMAIN.
8. 24"X18" RETURN AIR REGISTER 1000 CFM.
9. 18"X18" DUCT UP TO 18"ø OUTDOOR AIR INTAKE ON ROOF. PROVIDE NEW ROOF OPENING, ROOF CURB, PATCH AND REPAIR ROOF AS REQUIRED.
10. EXISTING S&R, CH&CHR PIPING TO REMAIN.
11. CONNECT NEW 1"CH&CHR, 1"S&R PIPING TO EXISTING AT THIS POINT.
12. PROVIDE NEW THERMOSTAT TO CONTROL BLOWER COIL UNIT.
13. TERMINATE 1"PVC CONDENSATE DRAIN LINE OVER FLOOR DRAIN IN JANITORS ROOM.
14. 24"X12" TRANSFER AIR GRILLE IN CEILING, EACH SIDE OF WALL AND A 24"X8" DUCT BETWEEN.
15. 1"CH&CHR, 1"S&R TO BLOWER COIL UNIT.
16. BLOWER COIL UNIT TO BE A TRANE MODEL NO. BCHB-30 HORIZONTAL DRAW THRU TYPE, 1000CFM, MINIMUM OUTDOOR AIR 200 CFM, EXT. STATIC PRESSURE 1.5" TOTAL COOLING CAPACITY 30.0MBH, 8.0GPM, TOTAL HEATING CAPACITY 40.0 MBH, 5.0 GPM, 3/4 HP FAN MOTOR, 115 VOLTS, 1 PHASE. UNIT TO HAVE 2" THROW AWAY FILTERS, FACTORY INSTALLED DISCONNECT SWITCH, PROVIDE COMPLETE ECONOMIZER CONTROLS.
17. ACCESS DOOR BY THE G.C.
18. ALL SHOWER DUCTWORK TO BE ALUMINUM CONSTRUCTION.

UNIT "F" MECHANICAL FIRST FLOOR PLAN

SCALE 1/8" = 1'-0"

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

GENERAL NOTE:

WORK INDICATED ON THESE DRAWINGS IS TYPICALLY SPECIFIED IN THE SPECIFICATIONS FOR PROJECT NUMBER 06-612. REFERENCE THAT DOCUMENT FOR THE MAJORITY OF THE WORK. ADDITIONAL SPECIFICATION SECTIONS HAVE BEEN ADDED FOR WORK THAT IS NOT COVERED THEREIN. ALSO REFER TO THE CONSTRUCTION DOCUMENT DRAWINGS FOR PROJECT NUMBER 06-612 FOR GENERAL NOTES, GENERAL RENOVATION NOTES, SYMBOL SCHEDULES, AND EQUIPMENT SCHEDULES WHICH APPLY TO THE WORK INICATED ON THIS DRAWING.

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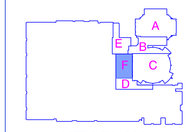
PROJECT
RENOVATION OF
EXISTING BOYS AND GIRLS P.E. LOCKER ROOMS AT LCHS AND RELATED WORK

LAWRENCE CENTRAL HIGH SCHOOL
MSD LAWRENCE TOWNSHIP
INDIANAPOLIS, INDIANA



KEY PLAN

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PROJECT
08-612
DATE
01-09-09
COORDINATED BY
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DRAWN BY
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CHECKED BY
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REVISIONS

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

DRAWING
UNIT "F" MECHANICAL FIRST FLOOR PLAN

PROJECT
RENOVATION OF EXISTING BOYS' & GIRLS' PE LOCKER ROOMS & RELATED AREAS

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DRAWINGS\LAWRENCE CENTRAL HIGH SCHOOL\2010
PROJECT RECORD DOCUMENT
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