

MECHANICAL LEGEND		
NAME	SYMBOL	ABBREVIATION
HEATING SYSTEM WATER SUPPLY		S
HEATING SYSTEM WATER RETURN		R
CHILLED WATER SUPPLY		CH
CHILLED WATER RETURN		CHR
CONDENSATE DRAIN		D
CONDENSER WATER SUPPLY		CO
CONDENSER WATER RETURN		COR
RELIEF VENT		V
REFRIGERANT LIQUID PIPING		RL
REFRIGERANT GAS SUCTION PIPING		RS
REFRIGERANT GAS DISCHARGE PIPING		RG
SHUT-OFF VALVE		
TRIPLE DUTY VALVE		
CHECK VALVE		
TEMPERATURE REGULATING VALVE		
BALANCING VALVE		
PRESSURE RELIEF VALVE		
PRESSURE REGULATING VALVE		
UNION		
PIPE ANCHOR		
PIPE GUIDE		
PIPING DROP WITH RESPECT TO FLOW		
PIPING RISE WITH RESPECT TO FLOW		
PIPE TEE OUT OF TOP		
PIPE TEE OUT OF BOTTOM		
PRESSURE GAUGE		
THERMOMETER		
STRAINER		
AUTOMATIC AIR VENT		
THERMOSTAT		
FLEXIBLE DUCT		
(SINGLE LINE) SUPPLY SHEET METAL DUCT		
(SINGLE LINE) RETURN SHEET METAL DUCT		
(SINGLE LINE) EXHAUST DUCT		
(SINGLE LINE) DUCT TRANSITION-SYMMETRIC REDUCTION		
(SINGLE LINE) DUCT DROP WITH RESPECT TO FLOW		
(SINGLE LINE) DUCT RISE WITH RESPECT TO FLOW		
DUCT SIZE (1ST FIGURE=WIDTH, 2ND FIGURE=DEPTH)		
ROUND DUCT SIZE		
DUCT DROP WITH RESPECT TO FLOW		
DUCT RISE WITH RESPECT TO FLOW		
DUCT SIZE (1ST FIGURE=WIDTH, 2ND FIGURE=DEPTH)		
ROUND DUCT SIZE		
FLAT-OVAL DUCT SIZE		
SUPPLY DUCT SECTION		
EXHAUST OR RETURN AIR DUCT SECTION		
SUPPLY RISER		
EXHAUST RISER		
RELIEF OR RETURN DECK OPENING		
MANUAL VOLUME DAMPER		VD
FIRE DAMPER		FD
BACKDRAFT DAMPER		BD
MOTORIZED DAMPER		MD
SMOKE DETECTOR		
EXHAUST REGISTER OR GRILLE		ER,EG
TRANSFER AIR GRILLE		TAG
RETURN AIR REGISTER OR GRILLE		RAR,RAG
SUPPLY AIR REGISTER OR GRILLE		SAR,SAG
CEILING DIFFUSER, TYPE & CFM		CD-A-
LINEAR DIFFUSER, TYPE & CFM		LD-A-
LINEAR BAR GRILLE, TYPE & CFM		LB-A-
DRUM DIFFUSER, TYPE AND CFM		DD-A-
EXHAUST FAN & SCHEDULE DESIGNATION		EF-
ROOF EXHAUST FAN		
ROOF INTAKE/RELIEF VENT		
CABINET HEATER & SCHEDULE DESIGNATION		CH-
CONVECTOR & SCHEDULE DESIGNATION		CV-
UNIT HEATER & SCHEDULE DESIGNATION		UH-
ELECTRIC BASEBOARD HEATER & SCHEDULE DESIGNATION		EB-
INFRARED HEATER & SCHEDULE DESIGNATION		IH-
AIR HANDLING UNIT & SCHEDULE DESIGNATION		AHU-
HEAT RECOVERY AHU & SCHEDULE DESIGNATION		HRI-
SPLIT AIR COOLED CONDENSING UNIT & SCHEDULE DESIGNATION		SACU-
AIR COOLED CONDENSING UNIT & SCHEDULE DESIGNATION		ACCU-
FAN COIL UNIT & SCHEDULE DESIGNATION		FCU-
CIRCULATING PUMP & SCHEDULE DESIGNATION		CP-
BOILER & SCHEDULE DESIGNATION		B-
WATER COOLED CHILLER & SCHEDULE DESIGNATION		WCCH-
COOLING TOWER & SCHEDULE DESIGNATION		CT-
DUCT HEATING COIL & SCHEDULE DESIGNATION		DHC-
VARIABLE AIR VOLUME BOX & SCHEDULE DESIGNATION		VAV-
FAN POWERED VAV BOX & SCHEDULE DESIGNATION		
AIR FLOW MEASUREMENT STATION		AMS
WATER FLOW CONTROL REGULATOR		
PRESSURE/TEMPERATURE TEST PORT		P/T
VARIABLE FREQUENCY DRIVE		VFD
SPACE PRESSURE SENSOR		
PRESSURE TRANSMITTER		
VENTILATING CONTRACTOR		VC
MECHANICAL CONTRACTOR		MC
ELECTRICAL CONTRACTOR		EC
TEMPERATURE CONTROL CONTRACTOR		TCC
DIFFERENTIAL PRESSURE TRANSMITTER		DPT
HUMIDITY SENSOR		
CARBON DIOXIDE SENSOR		

(NOT ALL SYMBOLS AND ABBREVIATIONS MAY APPLY FOR THIS PROJECT)

GENERAL MECHANICAL NOTES

(APPLY TO ALL MECHANICAL SHEETS)

- THIS CONTRACTOR IS RESPONSIBLE FOR ALL NEW WORK SHOWN ON THESE SHEETS UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL, STRUCTURAL AND ELECTRICAL SHEETS AND COORDINATE ALL WORK.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF CEILING DIFFUSERS, RETURN GRILLES, EXHAUST GRILLES, ETC. WITH RESPECT TO CEILING TYPE, CEILING GRID AND LIGHTING FIXTURES.
- ALL PIPING IN PIPE SPACES SHALL BE PLACED AS CLOSE TO WALLS AS POSSIBLE TO ALLOW MAXIMUM ACCESS.
- ALL DUCTWORK AND PIPING ABOVE CEILING SHALL BE PLACED TO AVOID LIGHTING FIXTURES, JOISTS, BEAMS, ETC.
- PROVIDE CEILING ACCESS PANELS FOR ACCESS TO VOLUME DAMPERS, FIRE DAMPERS, SHUT-OFF VALVES, CONTROL VALVES, DRAIN VALVES, EQUIPMENT, ETC. LOCATED ABOVE NON-ACCESSIBLE CEILINGS. COORDINATE ALL ACCESS PANELS WITH THE ARCHITECT.
- CONTRACTOR SHALL CORE DRILL HOLES THROUGH FLOORS, WALLS, DECKS, ETC. WHERE PASSAGE IS NOT AVAILABLE TO INSTALL NEW PIPING. PROVIDE PIPE SLEEVES AND PROPERLY SEAL ALL PIPE PENETRATIONS AS REQUIRED. REFER TO SPECIFICATIONS.
- ALL HEATING AND CHILLED WATER BRANCH PIPING SHOWN WITHOUT SIZE INDICATED, SHALL BE A MINIMUM OF 3/4".
- ARROWS ON ALL HEATING AND CHILLED WATER PIPING MAINS INDICATE DIRECTION OF FLOW. PITCH PIPING MAINS UP A MINIMUM OF 1" PER 50'-0" IN DIRECTION OF SUPPLY WATER FLOW.
- ALL FAN COIL UNIT CONDENSATE DRAINS ABOVE GRADE SHALL BE TYPE "L" HARD COPPER TUBING AND SHALL BE SIZED AS FOLLOWS: 1" DRAIN FOR ONE COIL, 1 1/4" DRAIN FOR TWO COILS, 1 1/2" DRAIN FOR THREE COILS, 2" DRAIN FOR FOUR OR MORE COILS. ALL BELOW GRADE DRAINS SHALL BE 2" EXTRA HEAVY CAST IRON SOIL PIPE AND SHALL SLOPE 1/8" PER 1'-0" UNLESS OTHERWISE NOTED.
- ALL AUTOMATIC TEMPERATURE REGULATING VALVES SHALL BE SIZED FOR 5 PSI MAXIMUM WATER PRESSURE DROP.
- VALVE ALL HEATING AND CHILLED WATER BRANCHES IN FAN AND MECHANICAL ROOMS. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL VALVES IN ALL PIPING AS REQUIRED TO FACILITATE OPERATION OF VARIOUS SYSTEMS DURING CONSTRUCTION.
- HEATING AND CHILLED WATER BRANCHES TO CONNECTORS, VAV RE-HEAT COILS AND FAN COIL UNITS SHALL BE 3/4" FOR UNITS UNDER 3 GPM AND 1" FOR UNITS OVER 3 GPM UNLESS OTHERWISE NOTED. 1" SIZE TO ALL CABINET HEATERS AND UNIT HEATERS UNLESS OTHERWISE NOTED.
- ALL THERMOSTATS SHALL BE APPROXIMATELY 4'-6" ABOVE FINISHED FLOOR AND LINED UP VERTICALLY WITH LIGHT SWITCHES UNLESS OTHERWISE NOTED OR DIRECTED BY ARCHITECT.
- ALL THERMOSTATS IN BOILER AND MECHANICAL ROOMS SHALL BE SET AT 60 DEGREES FAHRENHEIT.
- PAINT ALL AREAS ABOVE CEILING THAT ARE VISIBLE THROUGH CEILING RETURN AIR GRILLES A FLAT BLACK.
- INSTALL ALL FPB & VAV BOXES WITH BOTTOM OF BOXES A MAXIMUM OF 24" ABOVE CEILING. ALL FPB & VAV BOXES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS ABOVE LAY-IN CEILINGS, IN SUCH A MANNER THAT ALL ITEMS (FILTERS, CONTROLS, ELECTRICAL DEVICES, ETC.) REQUIRING SERVICING ARE ACCESSIBLE.
- DUCTWORK SIZES INDICATED ON DRAWINGS ARE TO BE FREE AREA DIMENSION AND SHALL BE INCREASED TO ACCOMMODATE ACOUSTICAL LINER WHERE REQUIRED.



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DESIGN

ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

**LAWRENCE
CENTRAL
HIGH
SCHOOL**

RENOVATIONS, ADDITIONS
AND RELATED WORK

MSD OF LAWRENCE TOWNSHIP

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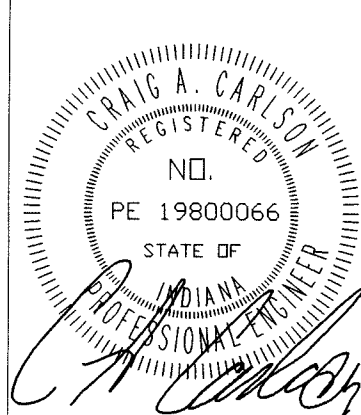
PROJECT
06-612

DATE
03/19/07

COORDINATED BY
RWN

DRAWN BY
WAB

CHECKED BY
CAC



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DRAWING
**MECHANICAL LEGEND
AND GENERAL NOTES**

PROJECT

LAWRENCE CENTRAL HIGH SCHOOL

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SHEET

M-001

PROJECT

LAWRENCE CENTRAL HIGH SCHOOL

RENOVATIONS, ADDITIONS
AND RELATED WORK

MSD OF LAWRENCE TOWNSHIP



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DRAWING
UNIT "A" MECHANICAL

**FIRST FLOOR
DEMOLITION PLAN**

DEMOLITION PLAN

PROJECT _____

LAWRENCE CENTRAL HIGH SCHOOL

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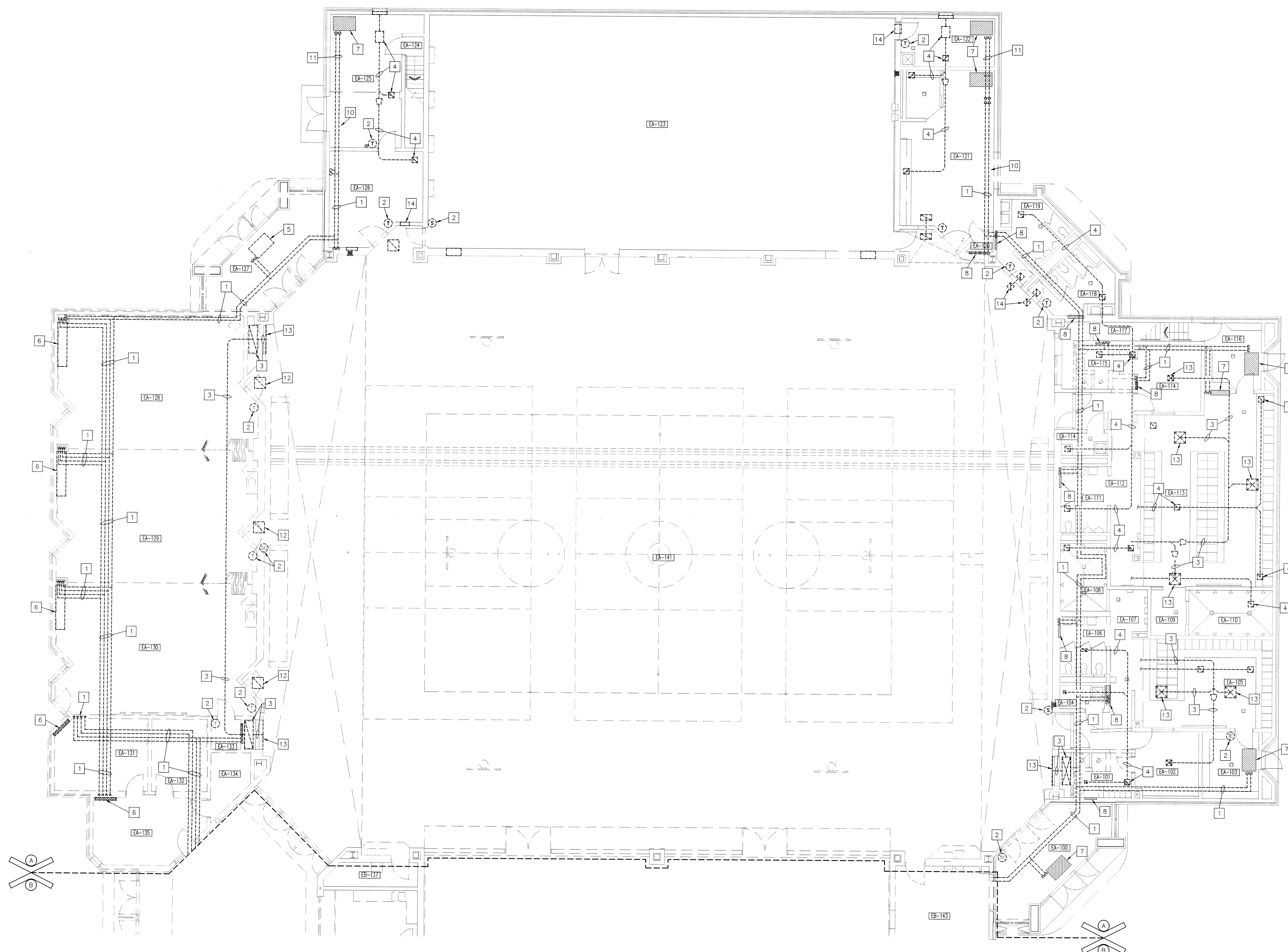
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GENERAL NOTES:

- | | |
|----|--|
| 1. | SEE SHEET M001 FOR MECHANICAL LEGEND AND GENERAL MECHANICAL NOTES. |
| 2. | IT IS THE GENERAL INTENT OF THIS DRAWING TO REQUIRE COMPLETE REMOVAL OF THE HVAC SYSTEM AS NOTED. |
| 3. | WHERE EXISTING PIPING IS REMOVED, REMOVE ALL ASSOCIATED APPENDAGES SUCH AS HANGERS, SUPPORTS, ETC. |
| 4. | WHERE MECHANICAL EQUIPMENT IS REMOVED, REMOVE ALL ACCESSORIES AND APPENDAGES SUCH AS SUPPORTS, CONCRETE BASES, TEMPERATURE CONTROLS, ETC. |
| 5. | PATCH ANY WALL OR ROOF OPENINGS (TO MATCH EXISTING CONDITIONS) WHICH REMAIN FROM DEMOLITION OF EQUIPMENT OR PIPING. EXISTING OPENINGS MAY BE REUSED FOR NEW PIPING WHERE POSSIBLE. |
| 6. | REMOVE ALL DEMOLITION DEBRIS FROM THE PREMISES AS FAST AS IT ACCUMULATES. (MINIMUM DAILY CLEAN-UP) |

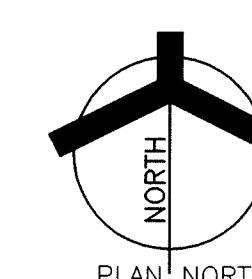
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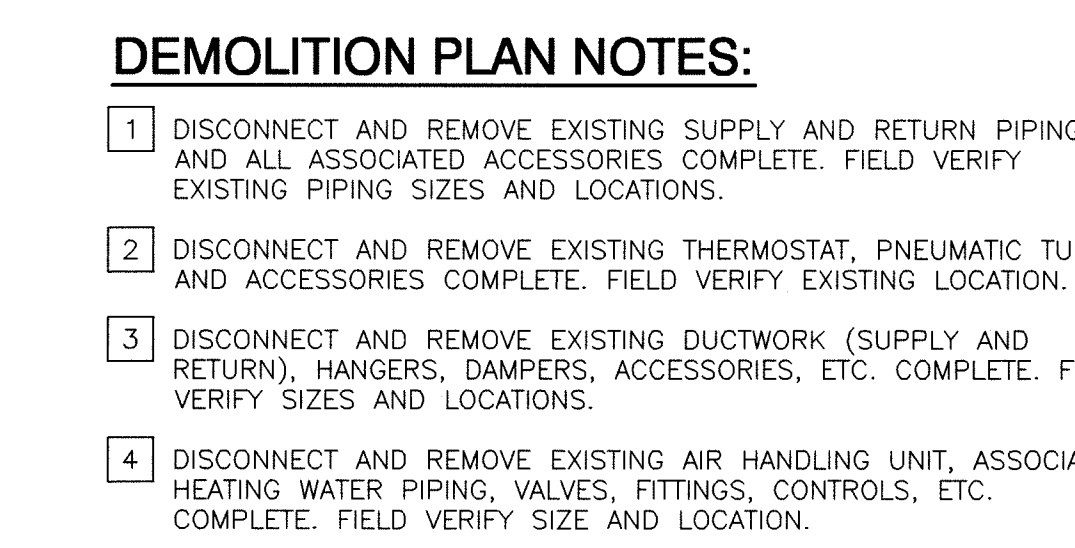
- 1 DISCONNECT AND REMOVE EXISTING SUPPLY AND RETURN PIPING AND ALL ASSOCIATED ACCESSORIES COMPLETE. FIELD VERIFY EXISTING PIPING SIZES AND LOCATIONS.
- 2 DISCONNECT AND REMOVE EXISTING THERMOSTAT, PNEUMATIC TUBING AND ACCESSORIES COMPLETE. FIELD VERIFY EXISTING LOCATION.
- 3 DISCONNECT AND REMOVE EXISTING DUCTWORK (SUPPLY AND RETURN), HANGERS, DAMPERS, ACCESSORIES, ETC. COMPLETE. FIELD VERIFY SIZES AND LOCATIONS.
- 4 DISCONNECT AND REMOVE EXISTING EXHAUST FAN, GRILLE, EXHAUST DUCTWORK, HANGERS, ACCESSORIES, ETC. COMPLETE. FIELD VERIFY EXISTING SIZES AND LOCATIONS.
- 5 DISCONNECT AND REMOVE EXISTING CABINET HEATER, ASSOCIATED HEATING WATER PIPING, VALVES, FITTINGS, CONTROLS, ETC. COMPLETE.
- 6 DISCONNECT AND REMOVE EXISTING UNIT VENTILATOR, ASSOCIATED HEATING WATER PIPING, VALVES, FITTINGS, CONTROLS, ETC. COMPLETE.
- 7 EXISTING CABINET HEATER TO REMAIN. CABINET HEATER TO RECEIVE NEW PIPING.
- 8 EXISTING CONVECTOR TO REMAIN. CONVECTOR TO RECEIVE NEW PIPING.
- 9 DISCONNECT AND REMOVE EXISTING CONVECTOR, ASSOCIATED HEATING WATER PIPING, VALVES, FITTINGS, CONTROLS, ETC. COMPLETE.
- 10 REMOVE EXISTING PIPING TO THIS LOCATION.
- 11 EXISTING PIPING TO REMAIN.
- 12 DISCONNECT AND REMOVE EXISTING RELIEF VENT, DUCTWORK, DAMPER, GRILLES, HANGERS, ACCESSORIES, ETC. COMPLETE. FIELD VERIFY EXISTING LOCATIONS.
- 13 DISCONNECT AND REMOVE EXISTING DIFFUSER, GRILLE/REGISTER COMPLETE. FIELD VERIFY SIZES AND LOCATIONS.
- 14 REMOVE EXISTING TRANSFER AIR DUCT AND GRILLES COMPLETE.

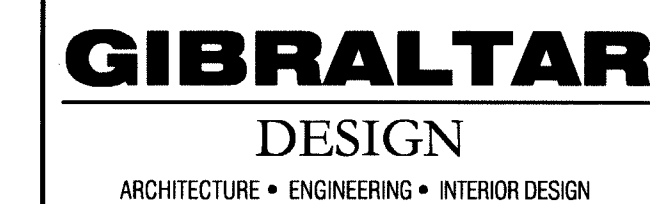


UNIT "A" MECHANICAL FIRST FLOOR DEMOLITION PLAN


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







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PROJECT 06-612	
DATE 03/19/07	
COORDINATED BY RWN	
DRAWN BY WAB	
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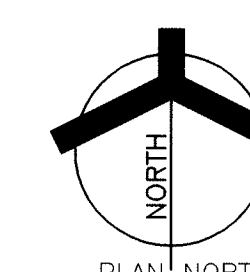
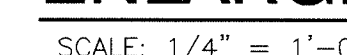
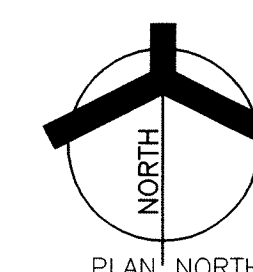
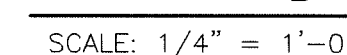
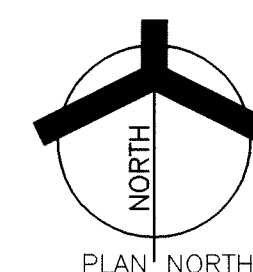
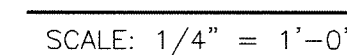
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PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

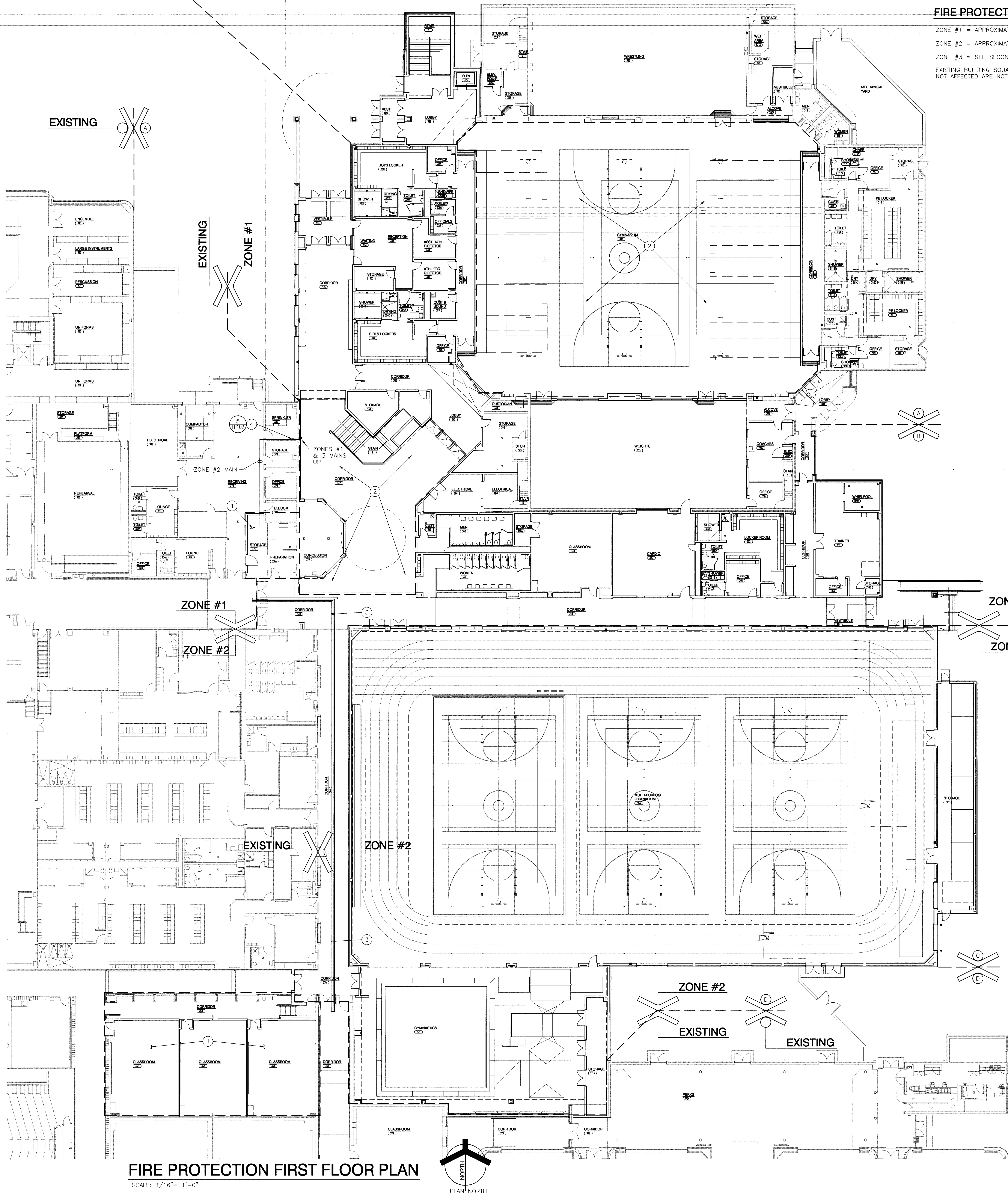
MD401

1. SEE SHEET M001 FOR MECHANICAL LEGEND AND GENERAL MECHANICAL NOTES.
2. IT IS THE GENERAL INTENT OF THIS DRAWING TO REQUIRE COMPLETE REMOVAL OF THE HVAC SYSTEM AS NOTED.
3. WHERE EXISTING PIPING IS REMOVED, REMOVE ALL ASSOCIATED APPENDAGES SUCH AS HANGERS, SUPPORTS, ETC.
4. WHERE MECHANICAL EQUIPMENT IS REMOVED, REMOVE ALL ACCESSORIES AND APPENDAGES SUCH AS SUPPORTS, CONCRETE BASES, TEMPERATURE CONTROLS, ETC.
5. PATCH ANY WALL OR ROOF OPENINGS (TO MATCH EXISTING CONDITIONS) WHICH REMAIN FROM DEMOLITION OF EQUIPMENT OR PIPING. PATCHING OPENINGS MAY BE REUSED FOR NEW PIPING WHERE POSSIBLE.
6. REMOVE ALL DEMOLITION DEBRIS FROM THE PREMISES AS FAST AS IT ACCUMULATES (MINIMUM DAILY CLEAN-UP).

- 1 DISCONNECT AND REMOVE EXISTING SUPPLY AND RETURN PIPING AND ALL ASSOCIATED ACCESSORIES COMPLETE. FIELD VERIFY EXISTING PIPING SIZES AND LOCATIONS.
- 2 DISCONNECT AND REMOVE EXISTING THERMOSTAT, PNEUMATIC TUBING AND ACCESSORIES COMPLETE. FIELD VERIFY EXISTING LOCATION.
- 3 DISCONNECT AND REMOVE EXISTING DUCTWORK (SUPPLY AND RETURN), HANGERS, DAMPERS, ACCESSORIES, ETC. COMPLETE. FIELD VERIFY SIZES AND LOCATIONS.
- 4 DISCONNECT AND REMOVE EXISTING EXHAUST FAN, GRILLE, EXHAUST DUCTWORK, HANGERS, ACCESSORIES, ETC. COMPLETE. FIELD VERIFY EXISTING SIZES AND LOCATIONS.
- 5 DISCONNECT AND REMOVE EXISTING UNIT HEATER, ASSOCIATED HEATING WATER PIPING, VALVES, FITTINGS, CONTROLS, ETC.
- 6 REMOVE EXISTING AIR HANDLING UNIT COMPLETE WITH ALL PIPING, DUCTWORK, SUPPORTS, CONTROLS, ELECTRICAL, ETC.
- 7 REMOVE EXISTING OUTDOOR AIR INTAKE LOUVER, PLENUM, DUCTWORK, ETC.
- 8 EXISTING CONCRETE PAD TO BE REMOVED BY THE G.C.
- 9 EXISTING TEMPERATURE CONTROLS TO BE REMOVED COMPLETELY.
- 10 EXISTING OUTDOOR AIR INTAKE LOUVER TO REMAIN. DISCONNECT AND REMOVE PLENUM, DUCTWORK, ETC.



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FIRE PROTECTION ZONES:

ZONE #1 = APPROXIMATELY 34,831 SQUARE FEET.
ZONE #2 = APPROXIMATELY 38,830 SQUARE FEET.
ZONE #3 = SEE SECOND FLOOR PLAN.
EXISTING BUILDING SQUARE FOOTAGES AND ZONES NOT AFFECTED ARE NOT NOTED.

GENERAL NOTES:

1. SEE SHEET FP102 FOR FIRE PROTECTION DETAILS.

PLAN NOTES:

1. REWORK EXISTING SPRINKLERS IN THIS AREA TO ACCOMMODATE NEW WALL LAYOUT.
2. SEE SECOND FLOOR PLAN, ZONE #3.
3. EXISTING SPRINKLER MAINS, PROTECT AND SUPPORT DURING DEMOLITION AND NEW CONSTRUCTION.
4. EXISTING SPRINKLER RISERS AND RELOCATED 6" INCOMING FIRE SPRINKLER SERVICE. SEE P-101 FOR NEW INCOMING 6" FIRE SPRINKLER SERVICE.

GENERAL FIRE PROTECTION NOTES

(APPLY TO ALL FIRE PROTECTION SHEETS)

1. ALL WORK SHOWN ON THE DRAWINGS IS NEW AND IS TO BE PROVIDED BY THE FIRE PROTECTION CONTRACTOR UNLESS OTHERWISE NOTED.
2. FIRE PROTECTION CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND SHALL MODIFY HIS WORK AS REQUIRED FOR ANY VARIATIONS OR DEVIATIONS IN EXISTING CONDITIONS FROM THOSE SHOWN ON THE DRAWINGS.
3. THIN DOTTED/DASHED LINES NOT NOTED OTHERWISE, INDICATE BULKHEADS, CANOPIES AND ROOF OVERHANG PROVIDED BY OTHER CONTRACTORS.
4. REFER TO LIFE SAFETY, CIVIL ARCHITECTURAL, STRUCTURAL, MECHANICAL PLUMBING AND ELECTRICAL DRAWINGS AND COORDINATE ALL WORK. ALL PIPING IS TO BE RUN CONCEALED ABOVE CEILINGS UNLESS INDICATED OTHERWISE. THE AMOUNT OF AVAILABLE SPACE ABOVE CEILINGS IS EXTREMELY LIMITED. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHER CONTRACTORS TO AVOID CONFLICTS. NO ALLOWANCE WILL BE MADE ON BEHALF OF THE FIRE PROTECTION CONTRACTOR FOR THE RESULTING OF PIPING IN THE FIELD REQUIRED TO ALLEVATE CONFLICTS WITH THE WORK OF OTHER CONTRACTORS.
5. ALL PIPING IN PIPE SPACES SHALL BE PLACED AS CLOSE TO WALLS AS POSSIBLE TO ALLOW MAXIMUM ACCESS.
6. ALL PIPING ABOVE CEILING SHALL BE PLACED TO AVOID LIGHTING FIXTURES, DUCTWORK, PIPING, DIFFUSERS, JOISTS, BEAMS, ETC.
7. PROVIDE CEILING ACCESS PANELS FOR ACCESS TO SHUT-OFF VALVES, CONTROL VALVES, DRAIN VALVES, EQUIPMENT, ETC. LOCATED ABOVE NON-ACCESSIBLE CEILINGS (INCLUDES ALL EXISTING ITEMS REQUIRING ACCESS WHERE NEW NON-ACCESSIBLE CEILINGS OCCUR). COORDINATE ALL ACCESS PANELS WITH THE ARCHITECT.
8. CONTRACTOR SHALL CORE DRILL HOLES THROUGH FLOORS, WALLS, DECKS, ETC. WHERE PASSAGE IS NOT AVAILABLE TO INSTALL NEW PIPING. PROVIDE PIPE SLEEVES AND PROPERLY SEAL ALL PIPE PENETRATIONS AS REQUIRED. REFER TO SPECIFICATIONS.
9. PROVIDE AND INSTALL AUTOMATIC SPRINKLER SYSTEMS IN ALL AREAS OF THE BUILDING.
10. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND LAYOUT OF ALL FIRE SPRINKLER SYSTEMS. THE FIRE SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY DESIGNED. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL WATER FLOW TEST DATA NECESSARY FOR SYSTEM DESIGN.
11. THE DESIGN AND INSTALLATION OF THE FIRE PROTECTION SYSTEMS SHALL CONFORM TO NATIONAL FIRE PROTECTION ASSOCIATION CODES, STANDARDS AND RECOMMENDED PRACTICES, ALL APPLICABLE STATE AND LOCAL FIRE PREVENTION/PROTECTION BUREAU'S STATUTES AND CODES, AND REQUIREMENTS OF OWNER'S INSURANCE UNDERWRITER. INCLUDE ALL PIPE AND FITTINGS, APPROVED WATERFLOW DETECTING ALARM DEVICES, PRESSURE GAUGES, SPRINKLER HEADS, INDICATING VALVES, FIRE DEPARTMENT CONNECTION, AND OTHER MATERIALS AND ACCESSORIES REQUIRED FOR A COMPLETE PROPERLY OPERATING INSTALLATION.
12. CONTRACTOR SHALL PROVIDE AND INSTALL VALVES IN ALL PIPING AS REQUIRED TO FACILITATE OPERATION OF THE VARIOUS SYSTEMS DURING CONSTRUCTION.
13. ALL ELECTRICAL AND MECHANICAL ROOMS SHALL BE SPRINKLED WITH AUTOMATIC SYSTEMS HAVING SPRINKLER HEADS WITH THE PROPER TEMPERATURE RATINGS.
14. INSTALL THE SPRINKLER ZONE INSPECTOR TEST DRAIN PIPING PARALLEL WITH THE FIRE SERVICE PIPING AND ROUTE TO OPEN SITE DRAINS OR THE BUILDING EXTERIOR AS REQUIRED.
15. PIPE ROUTING SHOWN IS PROVIDED AS A GUIDE. ACTUAL PIPE ROUTING SHALL BE BASED UPON THE HYDRAULIC SYSTEM DESIGN PROVIDED BY THE FIRE PROTECTION CONTRACTOR.
16. ZONES AND SQUARE FOOTAGES SHOWN ARE APPROXIMATE. THE FIRE PROTECTION CONTRACTOR SHALL VERIFY SQUARE FOOTAGES AND THE NUMBER OF ZONES REQUIRED.
17. AUTOMATIC FIRE SPRINKLER HEADS SHALL HAVE THE TEMPERATURE RATINGS REQUIRED FOR THE AREA TYPES IN WHICH THEY ARE INSTALLED.
18. THE FIRE PROTECTION CONTRACTOR SHALL CONSULT WITH THE LOCAL FIRE DEPARTMENT TO DETERMINE THE EXACT LOCATION, TYPE AND SIZE FIRE DEPARTMENT CONNECTION REQUIRED.
19. UPON DISCONNECTION OF ALL KNOWN EXISTING FIRE PROTECTION FEEDS THAT ARE TO BE ABANDONED, CONTRACTOR SHALL TEST THE EXISTING FIRE PROTECTION SYSTEM. AS PART OF THE SYSTEM VERIFY NO ADDITIONAL FEEDS TO THE EXISTING SYSTEM ARE PRESENT.

FIRE PROTECTION LEGEND

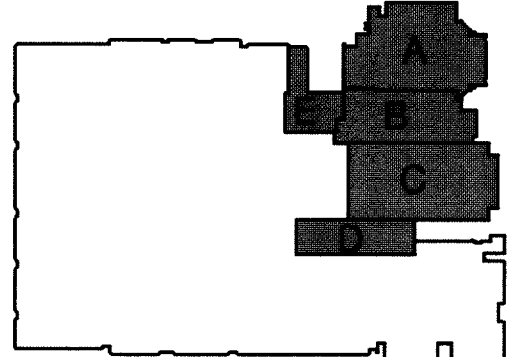
NAME	SYMBOL	ABBREVIATION
STORM DRAIN OR SEWER		S
SANITARY WASTE OR SEWER		W
PLUMBING VENTS		
FLOW IN DIRECTION OF ARROW		
PITCH DOWN IN DIRECTION OF ARROW		
SHUT-OFF VALVE		
CHECK VALVE		
BALANCING VALVE		
PRESSURE RELIEF VALVE		
PRESSURE REGULATING VALVE		
UNION		
PIPE ANCHOR		
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PIPING DROP WITH RESPECT TO FLOW		
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PIPE TEE OUT OF TOP		
PIPE TEE OUT OF BOTTOM		
PRESSURE GAUGE		
THERMOMETER		
STRAINER		
AUTOMATIC AIR VENT		
HOSE BIBB		HB
FLOOR DRAIN		FD
CLEAN OUT		CO
ELECTRIC WATER COOLER		EW
FIRE DEPARTMENT CONNECTION		FDC
AUTOMATIC SPRINKLER RISER		ASR
AUTOMATIC SPRINKLER PIPING		SP
FIRE PIPING		F
FIRE PROTECTION CONTRACTOR		FPC
GENERAL CONTRACTOR		GC
VENTILATING CONTRACTOR		VC
MECHANICAL CONTRACTOR		MC
ELECTRICAL CONTRACTOR		EC
TEMPERATURE CONTROL CONTRACTOR		TCC
INVERT		IN.
NORTH, SOUTH, EAST, WEST		N., S., E., W.
ELEVATION		EL.

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



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Phone: 317.580.5777 Fax: 317.580.5778

PROJECT
06-612

DATE
03/19/07

COORDINATED BY
MBW

DRAWN BY
MBW

CHECKED BY
CAC

PROFESSIONAL SEAL
CRAIG A. CARLSON
REGISTERED PROFESSIONAL ENGINEER
NO. 19800056
STATE OF INDIANA

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REVISIONS

MARK DATE ISSUED FOR

GENERAL NOTES:

1. SEE SHEET FP101 FOR FIRE PROTECTION LEGEND AND GENERAL NOTES.

PLAN NOTES:

- ① OPEN TO FLOOR BELOW, INCLUDE IN ZONE #3.
② OPEN TO FLOOR BELOW, INCLUDE IN ZONE#2.
③ OPEN CEILING SPACE.
④ INCLUDE IN ZONE #1 BELOW.

FIRE PROTECTION ZONES:

ZONE #1 = SEE SHEET FP101.
ZONE #2 = SEE SHEET FP101.
ZONE #3 = APPROXIMATELY 35,570 SQUARE FEET.



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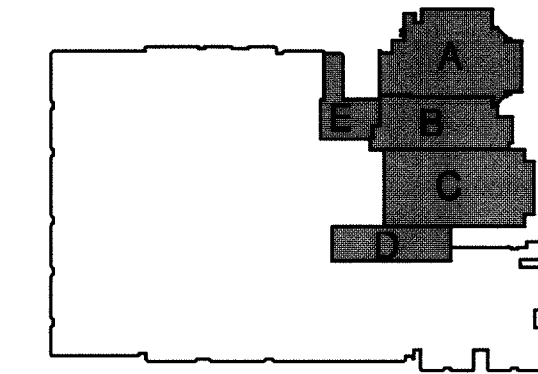
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PROJECT

**LAWRENCE
CENTRAL
HIGH
SCHOOL**

RENOVATIONS, ADDITIONS
AND RELATED WORK

MSD OF LAWRENCE TOWNSHIP



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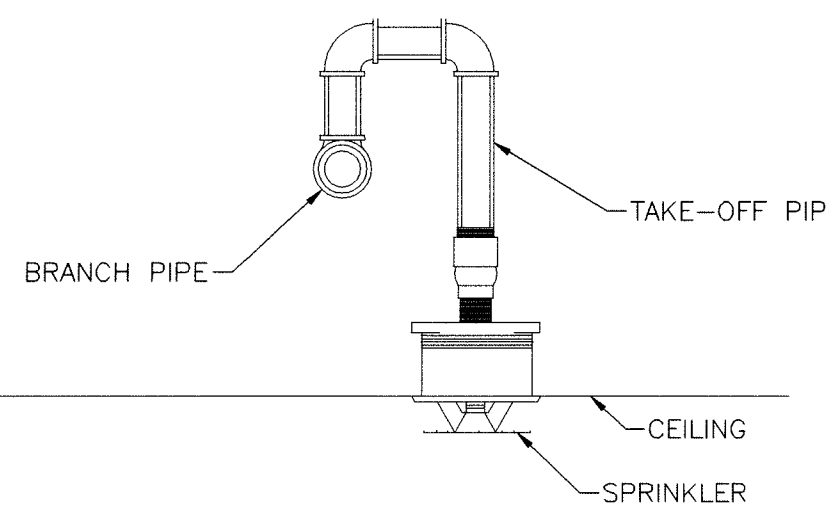
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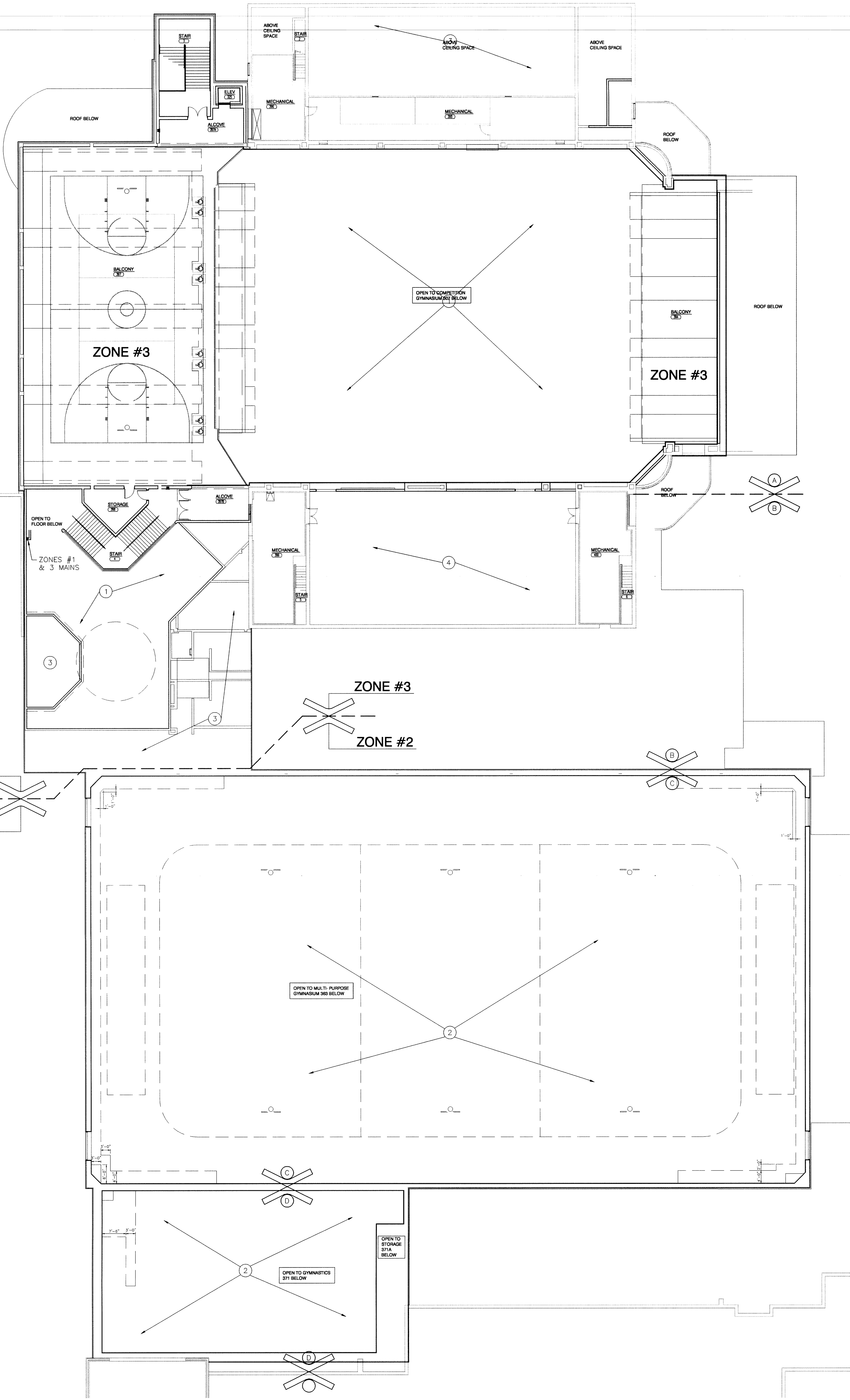
MARK DATE ISSUED FOR



**SPRINKLER BRANCH
TAKE-OFF PIPING**

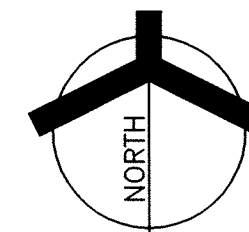
NOT TO SCALE

1
FP102



FIRE PROTECTION SECOND FLOOR PLAN

SCALE: 1/16" = 1'-0"

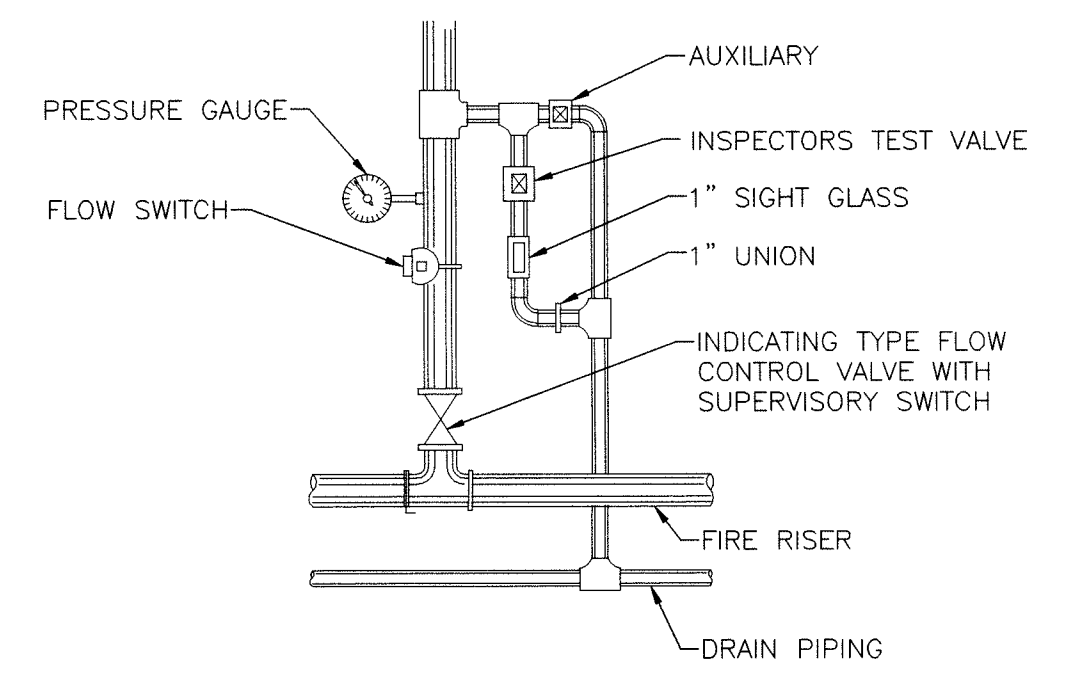


PLAN NORTH

**INCOMING FIRE SERVICE AND
SPRINKLER RISER DETAIL**

NOT TO SCALE

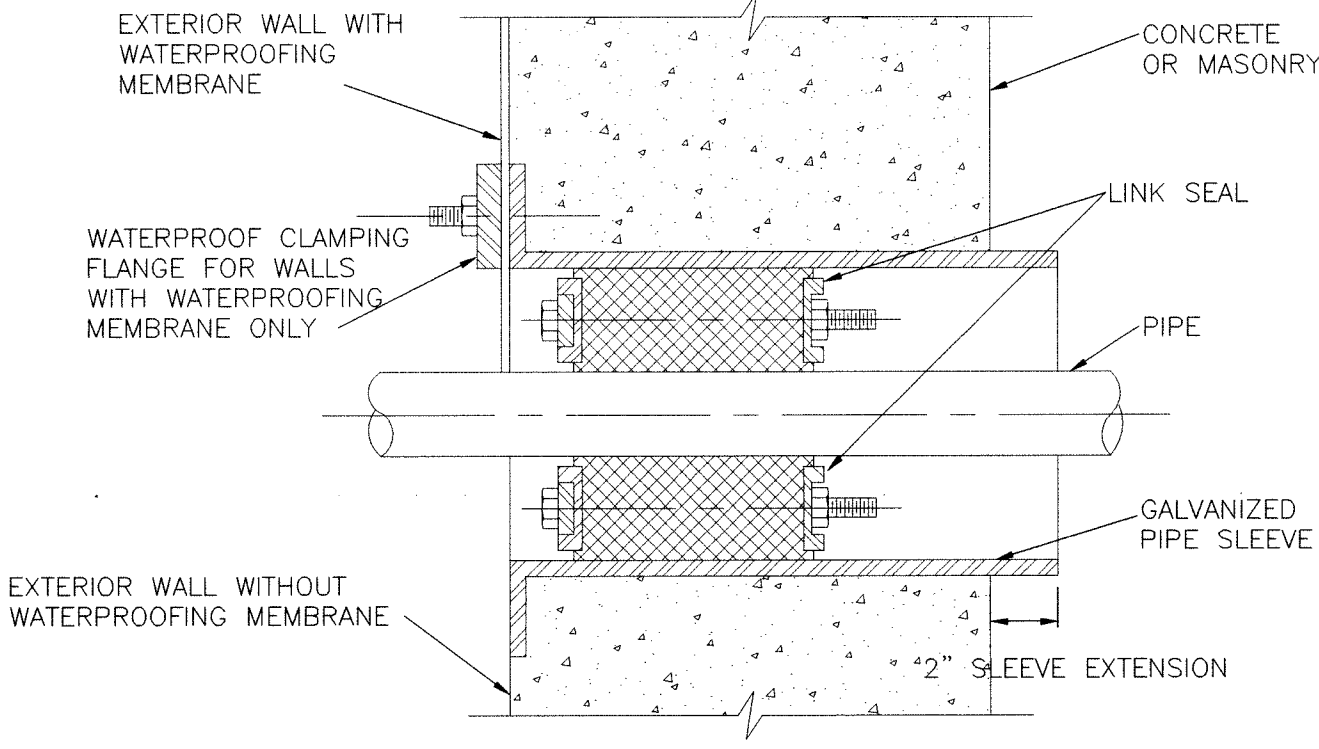
5
FP102



**FIRE PROTECTION RISER AND
DRAIN PIPING FOR INDIVIDUAL
ZONE DETAIL**

NOT TO SCALE

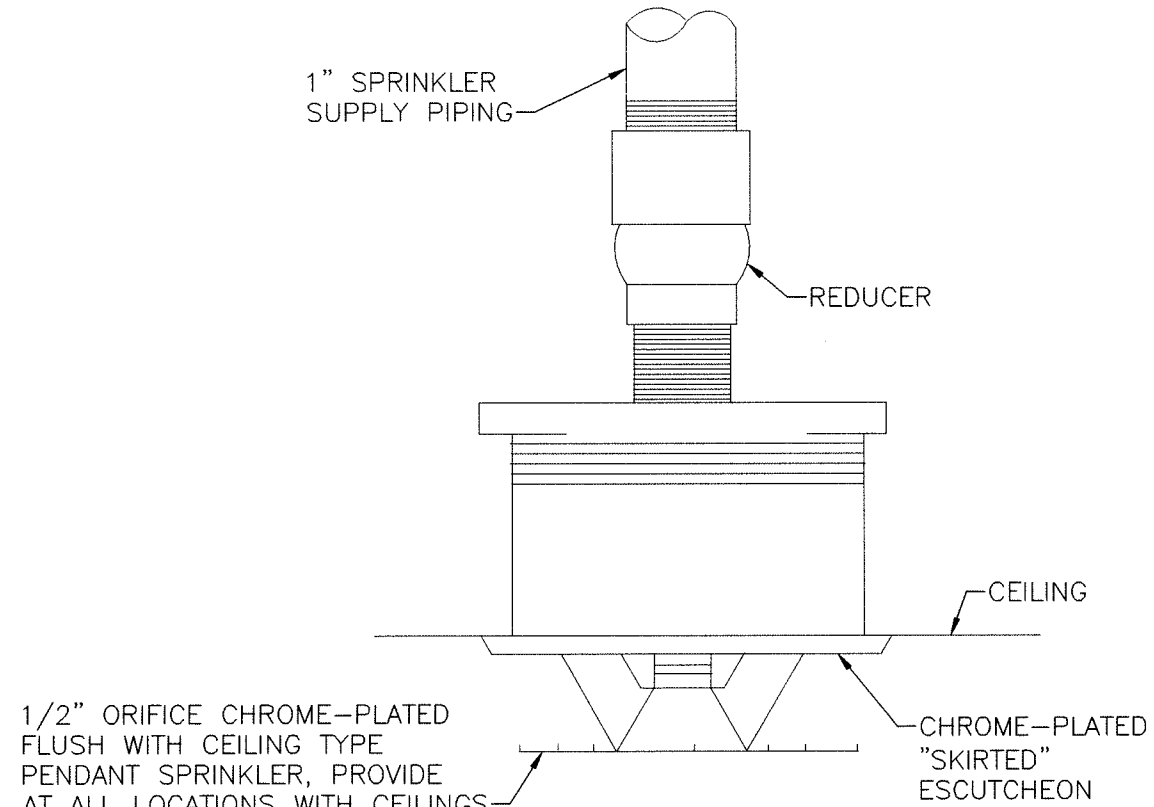
4
FP102



**PIPE SLEEVE THRU EXTERIOR WALL
OR FOUNDATION WALL DETAIL**

NOT TO SCALE

3
FP102



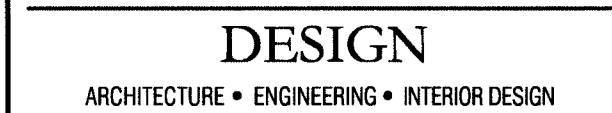
SPRINKLER HEAD DETAIL

NOT TO SCALE

2
FP102

NOTES:

1. ALL SPRINKLER TEMPERATURE RATINGS SHALL BE AS REQUIRED BY THE TYPE AREA IN WHICH THE SPRINKLER IS INSTALLED IN ACCORDANCE WITH NFPA 13.
2. ALL FIRE SPRINKLERS IN FINISHED AREAS WITH CEILINGS SHALL BE CHROME PLATED SEMI-RECESSED TYPE.
3. ALL FIRE SPRINKLERS IN UNFINISHED AREAS WITHOUT CEILINGS SHALL BE BRONZE UPRIGHT TYPE.



PROJECT

LAWRENCE CENTRAL HIGH SCHOOL

RENOVATIONS, ADDITIONS
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MSD OF LAWRENCE TOWNSHIP



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[illegible]

DRAWING
UNIT "C"
PLUMBING
FIRST FLOOR
DEMOLITION PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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C	PD103

GENERAL NOTES:

1. SEE SHEET P-001 FOR PLUMBING LEGEND, GENERAL NOTES AND SCHEDULES.

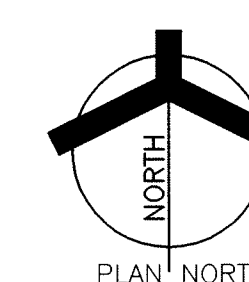
DEMOLITION PLAN NOTES:

(APPLY TO THIS SHEET ONLY)

- 1 DISCONNECT AND REMOVE EXISTING RD AND RC COMPLETE.
- 2 DISCONNECT AND REMOVE EXISTING WC, UR AND LAV COMPLETE INCLUDING CARRIER, REMOVE W, V, HW AND CW PIPE COMPLETE.
- 3 DISCONNECT AND REMOVE EXISTING SC/HB COMPLETE, REMOVE CW COMPLETE.
- 4 REMOVE W, V, HW AND CW PIPE COMPLETE.
- 5 REMOVE RC DOWN AS REQUIRED.
- 6 CAP EXISTING PIPE AND ABANDON.

UNIT "C" PLUMBING FIRST FLOOR DEMOLITION PLAN

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



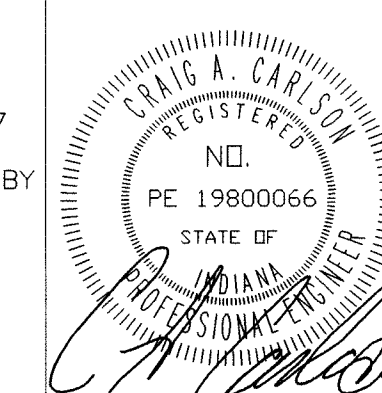


PROJECT
**LAWRENCE
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HIGH
SCHOOL**
RENOVATIONS, ADDITIONS
AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



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[illegible]

DRAWING
UNITS "D" AND "E"
PLUMBING
FIRST FLOOR
DEMOLITION PLANS

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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D, E	PD104

GENERAL NOTES:

1. SEE SHEET P-001 FOR PLUMBING LEGEND, GENERAL NOTES AND SCHEDULES.

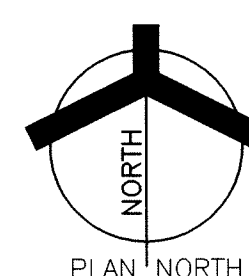
DEMOLITION PLAN NOTES:

(APPLY TO THIS SHEET ONLY)

- 1 DISCONNECT EXISTING CABINET SINK. PREPARE W, V, HW AND CW PIPE FOR CONNECTION TO NEW SINK. REMOVE 1 1/2"W TO CONNECTION TO 2".
- 2 REMOVE EXISTING PIPE AS SHOWN.
- 3 DISCONNECT AND REMOVE EXISTING EWC/DF COMPLETE. REMOVE W, V AND CW PIPE TO A POINT BELOW FLOOR, WALL, AND CEILING SURFACES OUT OF WAY OF NEW CONSTRUCTION. PLUG, CAP AND ABANDON IN PLACE.
- 4 DISCONNECT AND REMOVE EXISTING EWC/DF COMPLETE. PREPARE W, V AND CW PIPE FOR CONNECTION TO NEW EWC.



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



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



Tue, 3/10/2007 5:56 am
Y:\06-612 Lawrence Central H.S. Rmv-Add\Drawings\Plumbing\06-612p-P-101.dwg

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



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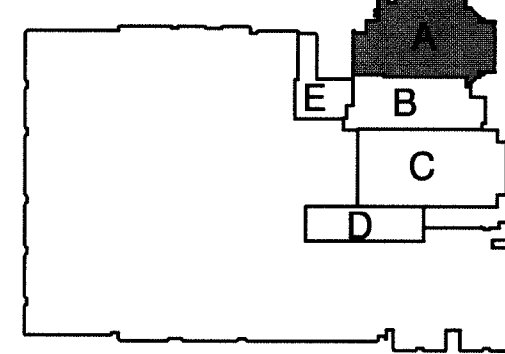
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PROJECT

**LAWRENCE
CENTRAL
HIGH
SCHOOL**

RENOVATIONS, ADDITIONS
AND RELATED WORK

MSD OF LAWRENCE TOWNSHIP



KEY PLAN

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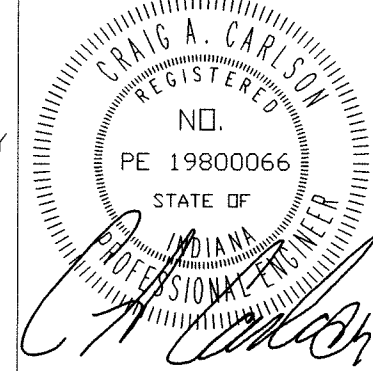
PROJECT
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03/19/07

COORDINATED BY
MBW

DRAWN BY
MBW

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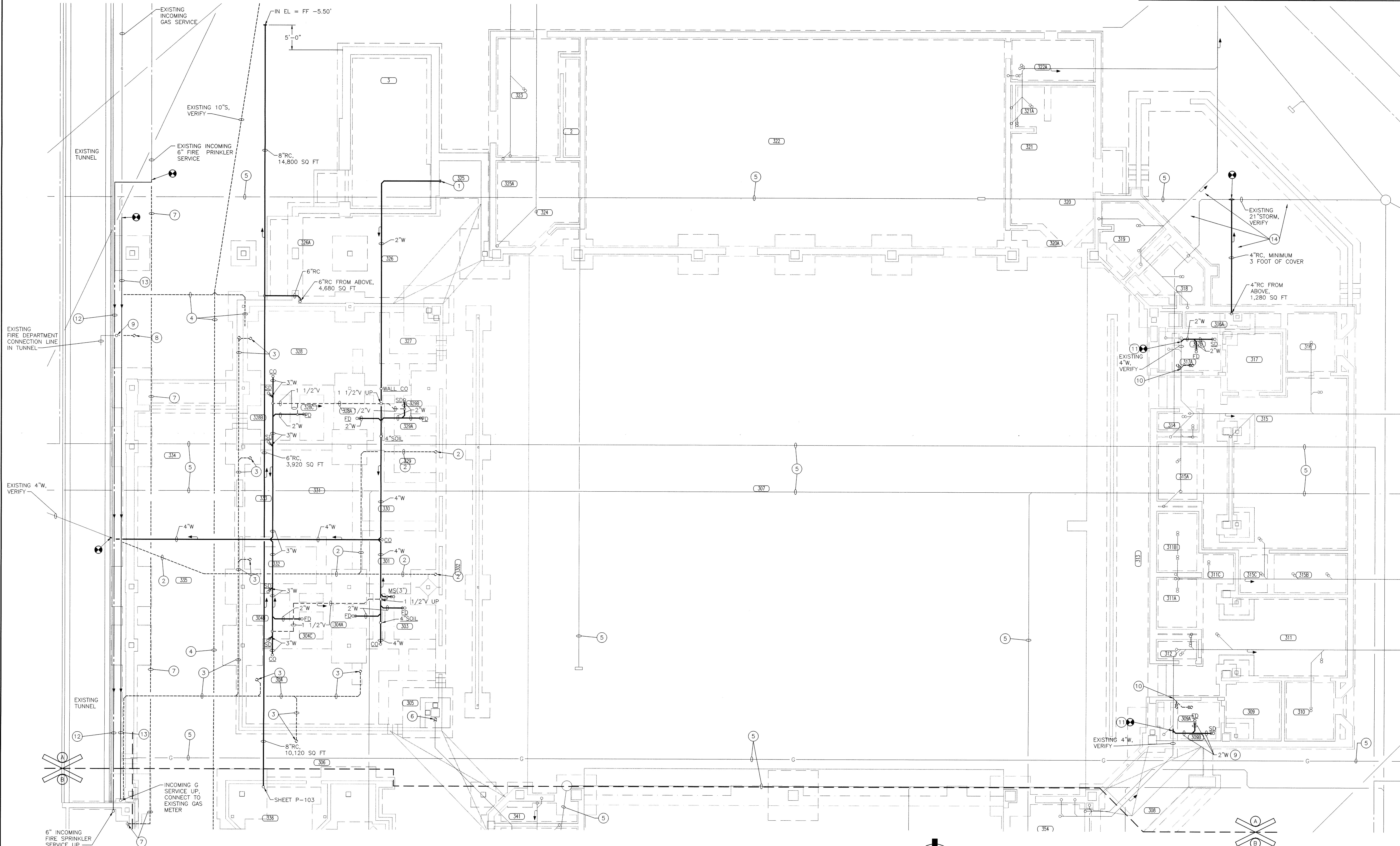
**DRAWING
UNIT "A"
PLUMBING
FOUNDATION
PLAN**

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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SHEET

A P-101



UNIT "A" PLUMBING FOUNDATION PLAN

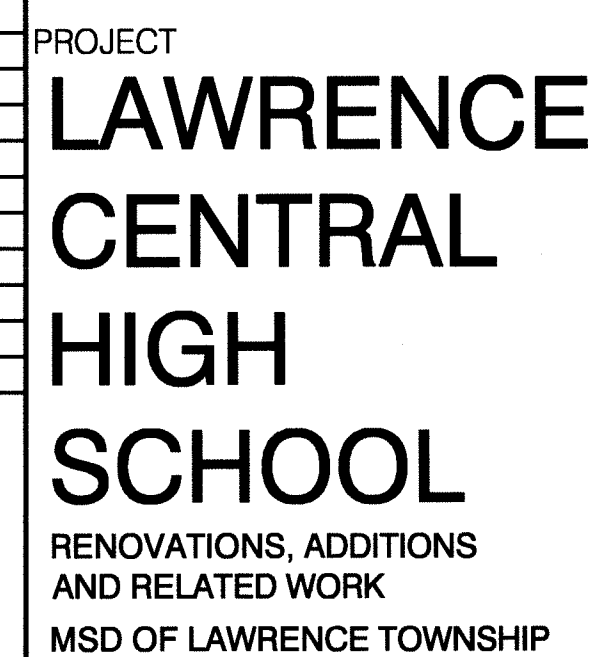
SCALE: 1/8" = 1'-0"



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.

- 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 W/C/SUP/DROP, PROVIDE NEW BUBBLES SPRAYER, DRAIN STRAINER, SUPPLY STOP, P-TRAP, ETC. AND THROUGLY CLEAN FIXTURE CABINET.
- 7) PROVIDE NEW CARRIER, ADJUST "W, V, CW AND HW AS REQUIRED AND CONNECT TO NEW FURFLEX COMPONENT, TYPICAL WHERE REQUIRED.
- 8) 8"RC FROM RD/OFD ABOVE.
- 9) EXISTING 3/4"CW UP AND 2" W DOWN, VERIFY, CAP AND ABANDON 5/4"CW DROP.
- 10) EXISTING FD AND 2" W, VERIFY.
- 11) EXISTING 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 FOUNTAIN DRAIN TO SINK.
- 15) RELOCATE/REINSTALL EXISTING LAINS AT THIS LOCATION COMPLETE. SEE PD011 PLAN NOTE 15 FOR EXISTING LAINS TO BE RELOCATED TO THIS LOCATION.

ROOM NAME SCHEDULE		ROOM NAME SCHEDULE	
NO	NAME	NO	NAME
1	STAIR	317	OFFICE
2	STAIR	317A	TOILET
3	STAIR	317B	SHOWER
301	ATHLETIC DIRECTOR	318	WOMEN
302	CORRIDOR	319	MEN
303	CUSTODIAN & SOUND	320	VESTIBULE
304	GIRLS LOCKERS	320A	ADVICE
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	315	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



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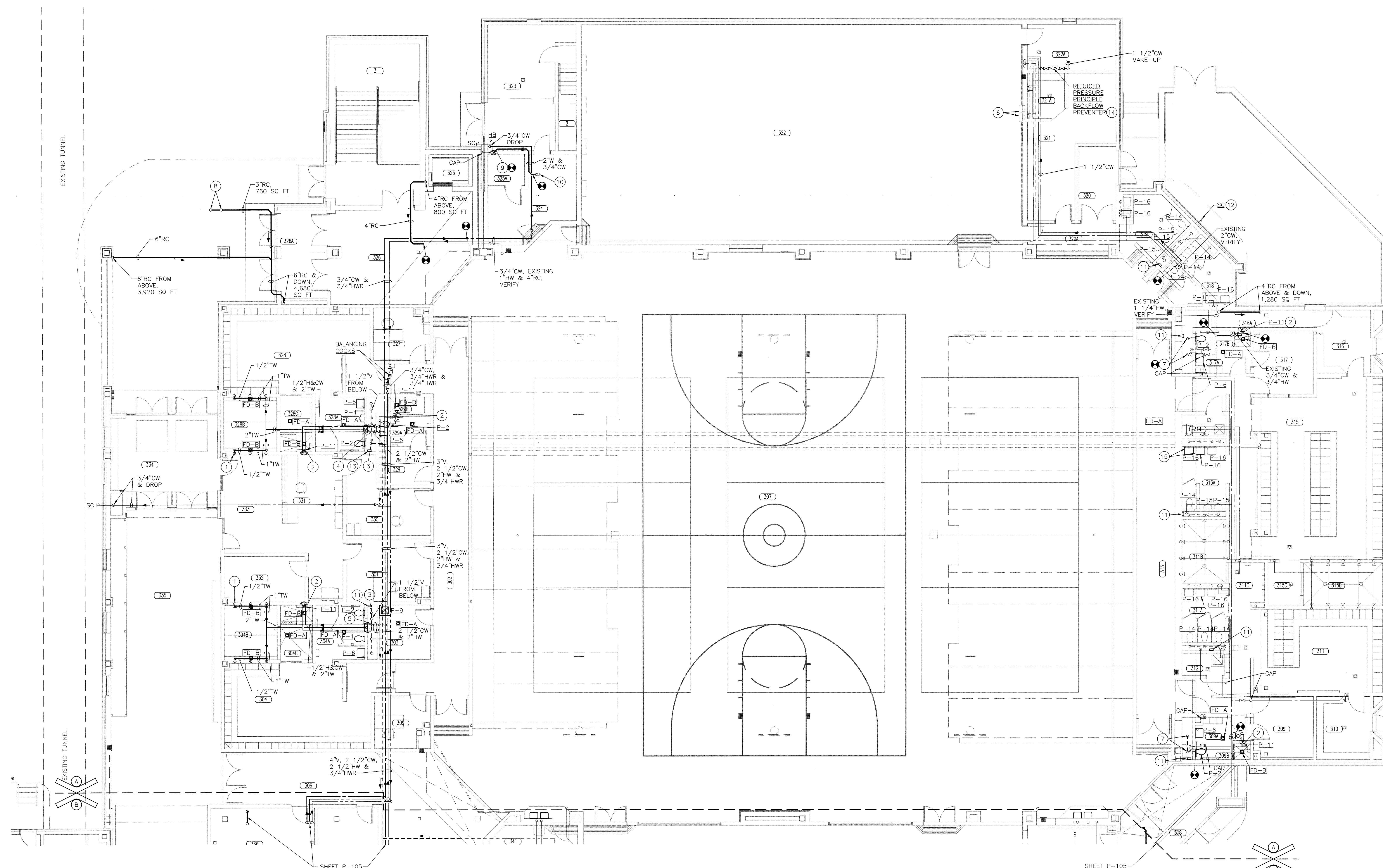
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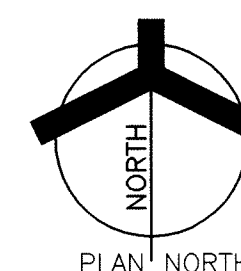
DRAWING
UNIT "A"
PLUMBING
FIRST FLOOR
PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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A P-102



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



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

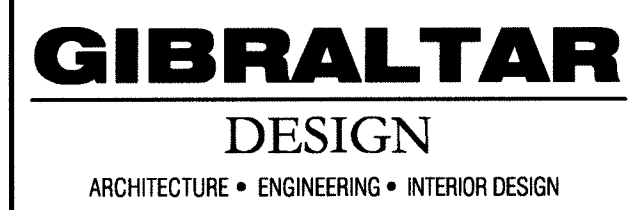


Diagram of a building layout with rooms A, B, C, D, and E. Room A is at the top right, B is below it, C is below B, D is below C, and E is to the left of B. A large open area is to the left of E.

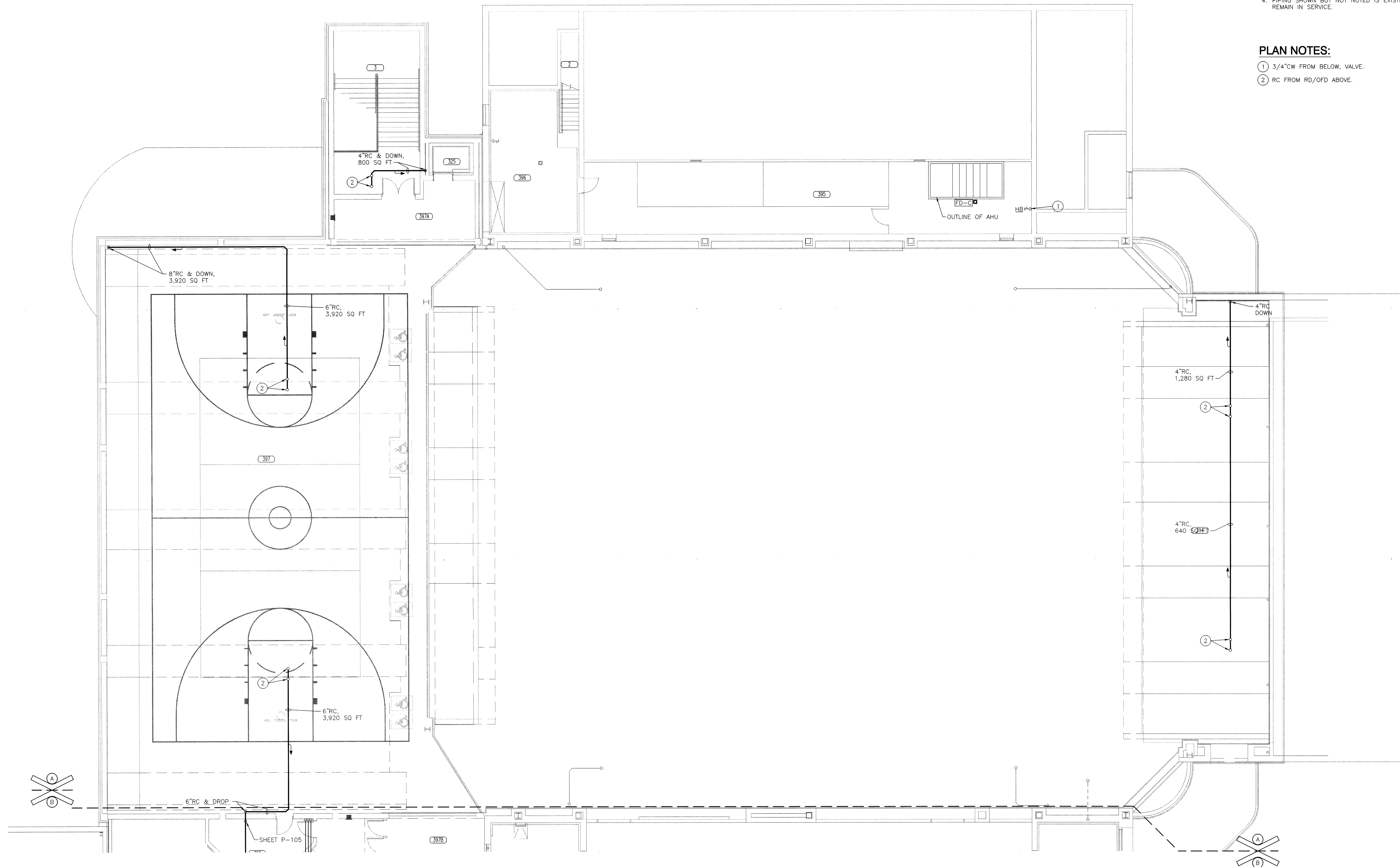
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PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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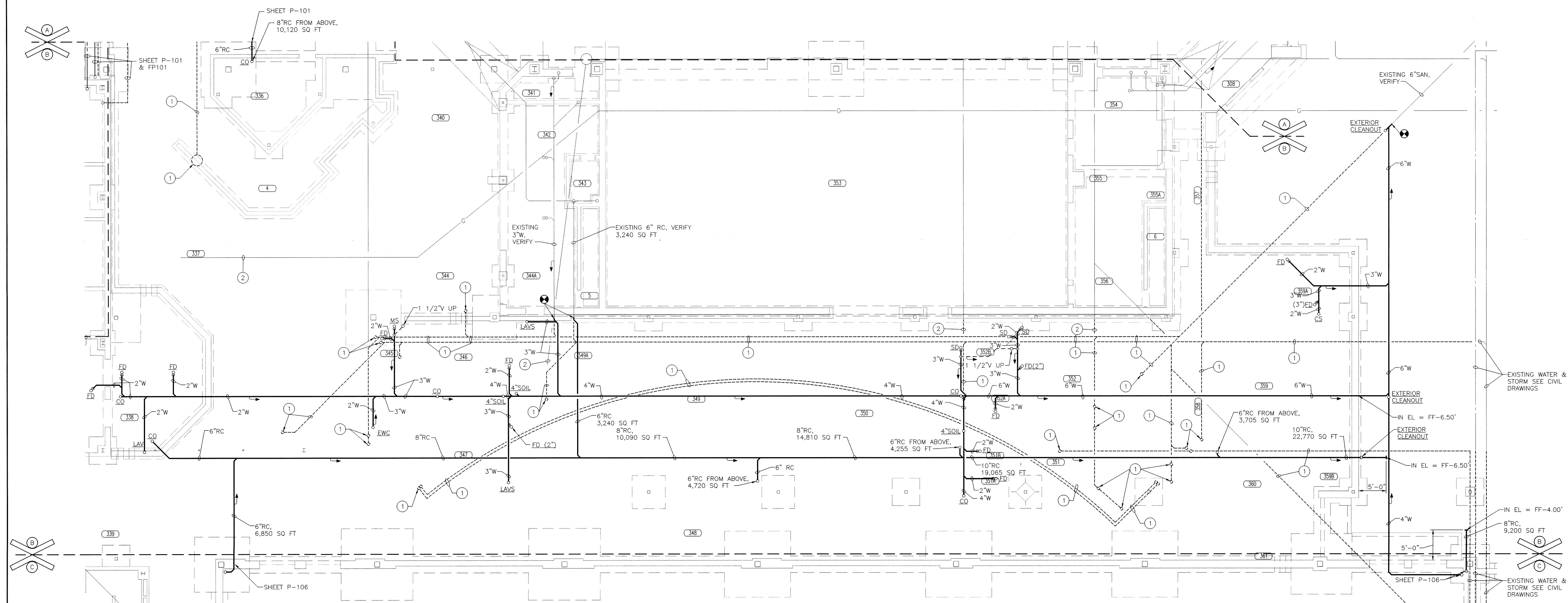
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DRAWING
UNIT "B"
PLUMBING
FOUNDATION
PLAN

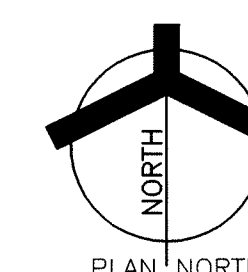
B P-104

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.

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

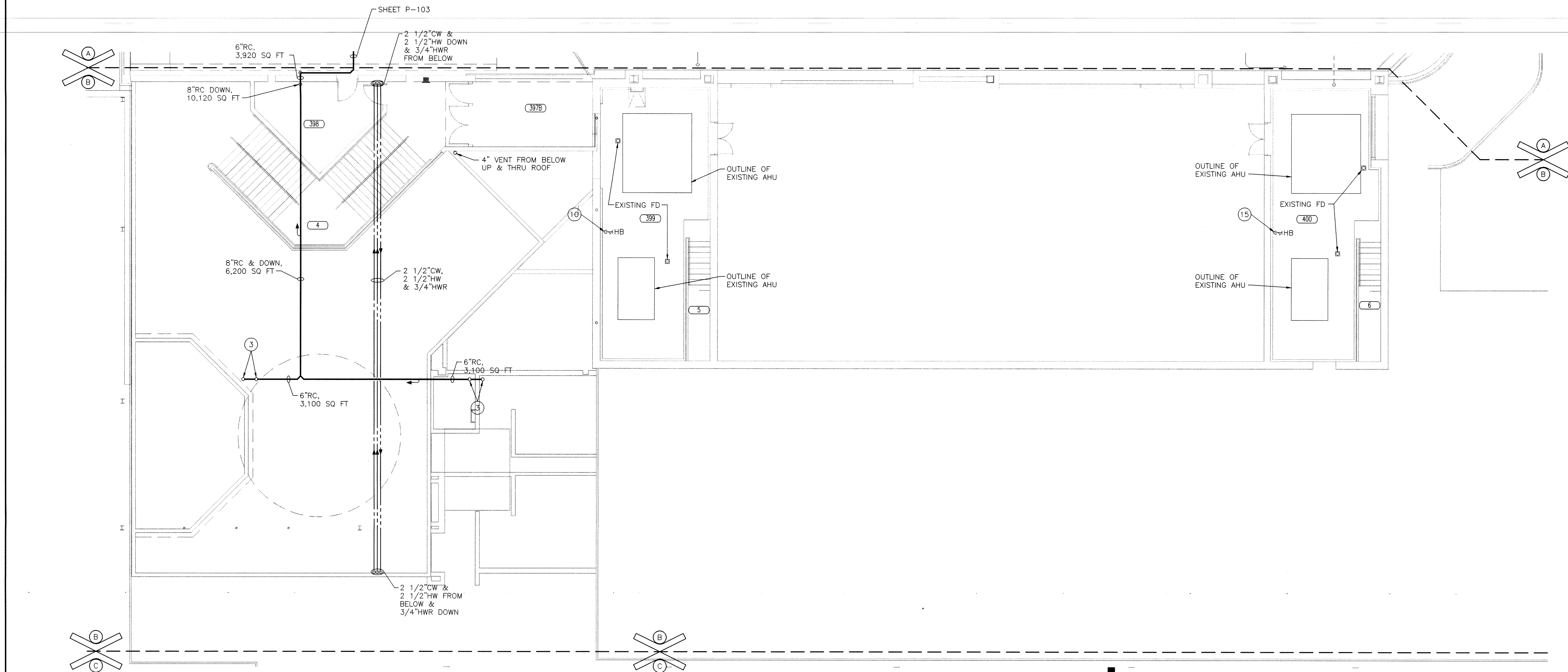


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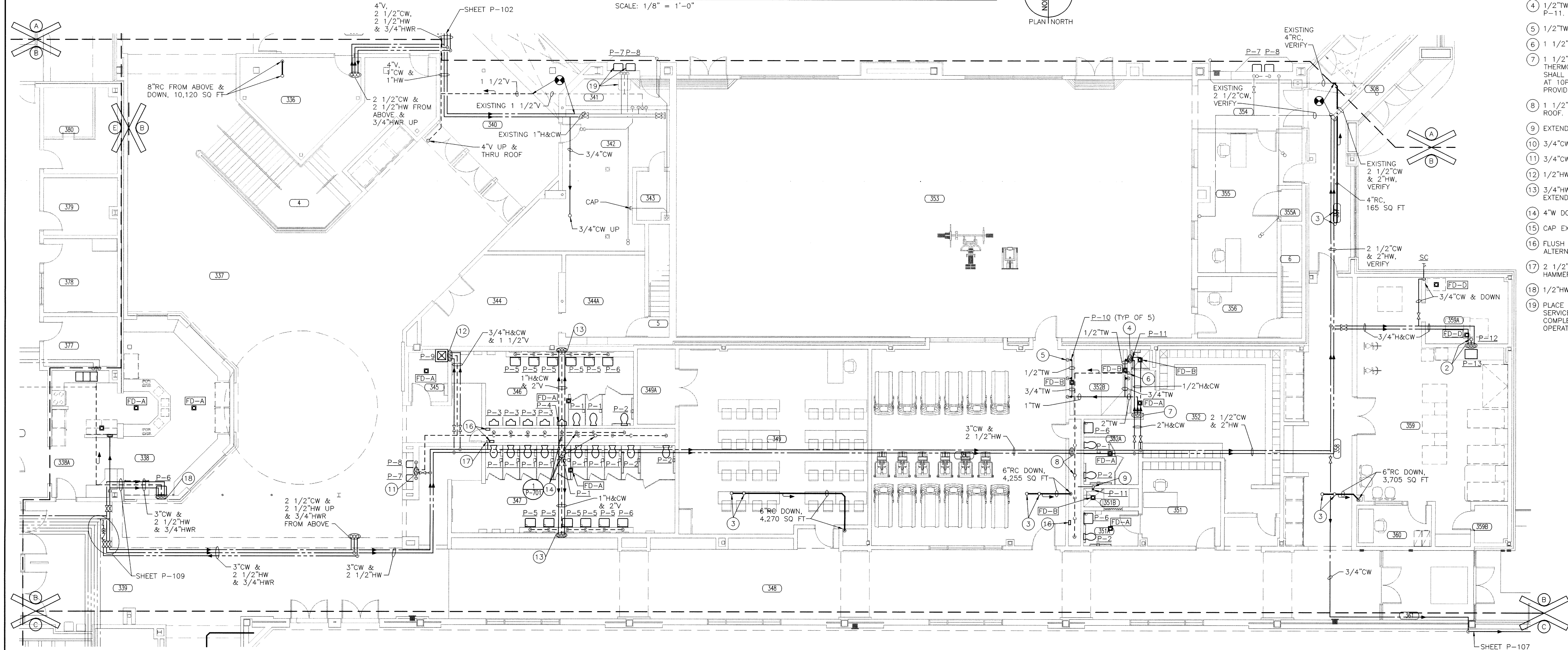
6" RC FROM ABOVE

Tue, 3/10/2007 6:09 am
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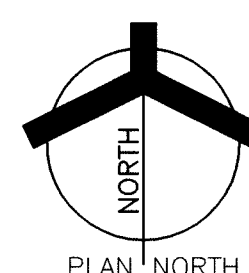
UNIT "B" PLUMBING SECOND FLOOR PLAN

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



UNIT "B" PLUMBING FIRST FLOOR PLAN

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



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
376A	ALCOVE
376B	STORAGE
376C	MECHANICAL
376D	MECHANICAL
376E	MECHANICAL
376F	MECHANICAL
376G	MECHANICAL
376H	MECHANICAL
376I	MECHANICAL
376J	MECHANICAL
376K	MECHANICAL
376L	MECHANICAL
376M	MECHANICAL
376N	MECHANICAL
376O	MECHANICAL
376P	MECHANICAL
376Q	MECHANICAL
376R	MECHANICAL
376S	MECHANICAL
376T	MECHANICAL
376U	MECHANICAL
376V	MECHANICAL
376W	MECHANICAL
376X	MECHANICAL
376Y	MECHANICAL
376Z	MECHANICAL

GENERAL NOTES:

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

PLAN NOTES:

- ADJUST W, V, AND CW AS REQUIRED AND RAISE EWC'S AS REQUIRED TO ACCOMMODATE NEW FLOOR HEIGHT. 1" 5/8" FIELD VERIFY.
- 3/4"HW AND 3/4"CW DROP, 2"W DOWN, 1 1/2"V UP AND 3" THRU ROOF.
- RC FROM RD/OFD ABOVE.
- 1/2"TW DROP TO P-10, 1/2"CW AND 1/2"TW DROP TO P-11.
- 1/2"TW DROP TO EACH P-10 (TYPICAL OF 5).
- 1 1/2"V FROM BELOW.
- 1 1/2"HW, 1 1/2"CW DROP TO, 2"TW RISE FROM THERMOSTATIC MIXING VALVE. THERMOSTATIC MIXING VALVE SHALL BE EQUAL TO LAWLOR #66-25, UNIT#83006, 13 GPM AT 10PSI DROP. PROVIDE RECESSED WALL CABINET AND PROVIDE INLET BALL VALVES IN CABINET.
- 1 1/2"HW, 2 1/2"CW DROP, 4"W DOWN, 4"V UP THRU ROOF.
- EXTEND 1/2"HW AND 1/2"CW FROM CHASE TO SHOWER.
- 3/4"CW FROM BELOW. PROVIDE SERVICE VALVE AND HB.
- 3/4"CW DROP, 2"W DOWN, 1 1/2"V RISER.
- 1/2"HW AND 1/2"CW DROP, 1 1/2"V FROM BELOW.
- 3/4"HW AND 3/4"CW DROP, 3"W DOWN AND 2"V RISER. EXTEND TO ALL LAVS.
- 4"W DOWN, 4"V UP AND THRU ROOF.
- CAP EXISTING CW AT 24" A.F.F. AND PROVIDE HB.
- FLUSH VALVE TRANSFORMER LOCATION, BID AS AN ALTERNATE.
- 2 1/2"TW DROP VALVE AND HEADER IN CHAES WITH WATER HAMMER ARRESTOR.
- 1/2"HW AND 1/2"CW DROP, 2"W DOWN AND 1 1/2"V RISE.
- PLACE SIGNAGE ON FIXTURE AND PLACE FIXTURE OUT OF SERVICE UNTIL UNDERGROUND UTILITIES IN UNIT "B" ARE COMPLETE, AFTER UTILITIES IN UNIT "B" ARE INSTALLED AND OPERATIONAL PLACE FIXTURE BACK INTO SERVICE.



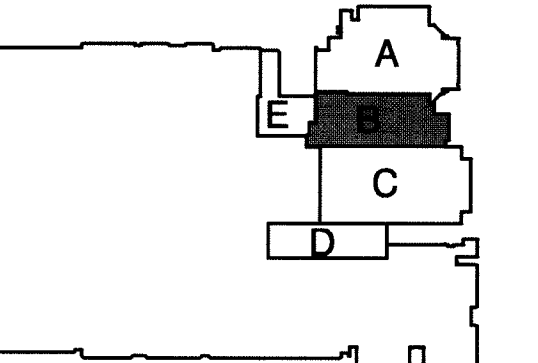
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ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

LAWRENCE CENTRAL HIGH SCHOOL

RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



KEY PLAN

GIBALTAR DESIGN

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E-mail: info@GibraltarDesign.com

Phone: 317.580.5777 Fax: 317.580.5778

PROJECT 06-612

DATE 03/19/07

COORDINATED BY MEW

DRAWN BY MEW

CHECKED BY CAC

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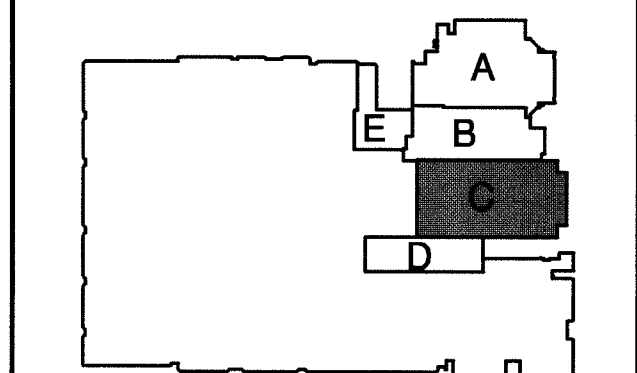
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MARK DATE ISSUED FOR

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.

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



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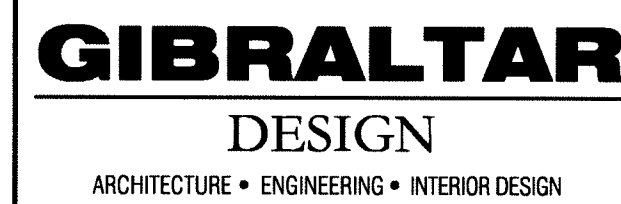
PROJECT 06-612	
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REVISIONS

DRAWING
UNIT "C"
PLUMBING
FOUNDATION
PLAN

<p> <input type="checkbox"/> APPLICABLE </p>	<p> <input type="checkbox"/> NOT APPLICABLE </p>

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DRAWING
UNIT "C"
PLUMBING
FIRST FLOOR
PLAN

© GIBRALTAR DESIGN	SHEET
C	P-107

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.

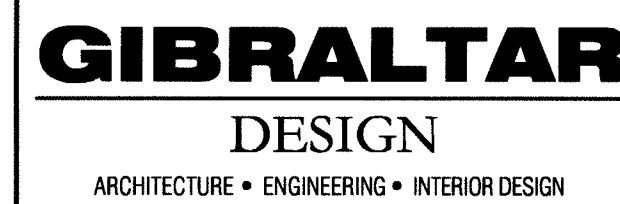
- ① RC FROM RD/OFD ABOVE.
- ② PROVIDE 3/4"HW R AND CONNECT EXISTING HW TO EXISTING HW R.
- ③ 1 1/2"V UP AND 3" THRU ROOF.
- ④ 1/2"CW DROP, 2"W DOWN AND 1 1/2"V RISE.
- ⑤ WOODFORD MODEL B26 CHROME PLATED BOX HYDRANT AT 12' AFF.



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



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



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PROJECT 06-612	
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DATE 03/18/07

CRAIG A. CARLSON
REGISTER

COORDINATED BY

MBW
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DRAWING
UNIT "D"
PLUMBING
FOUNDATION & FIRST FLOOR
PLANS

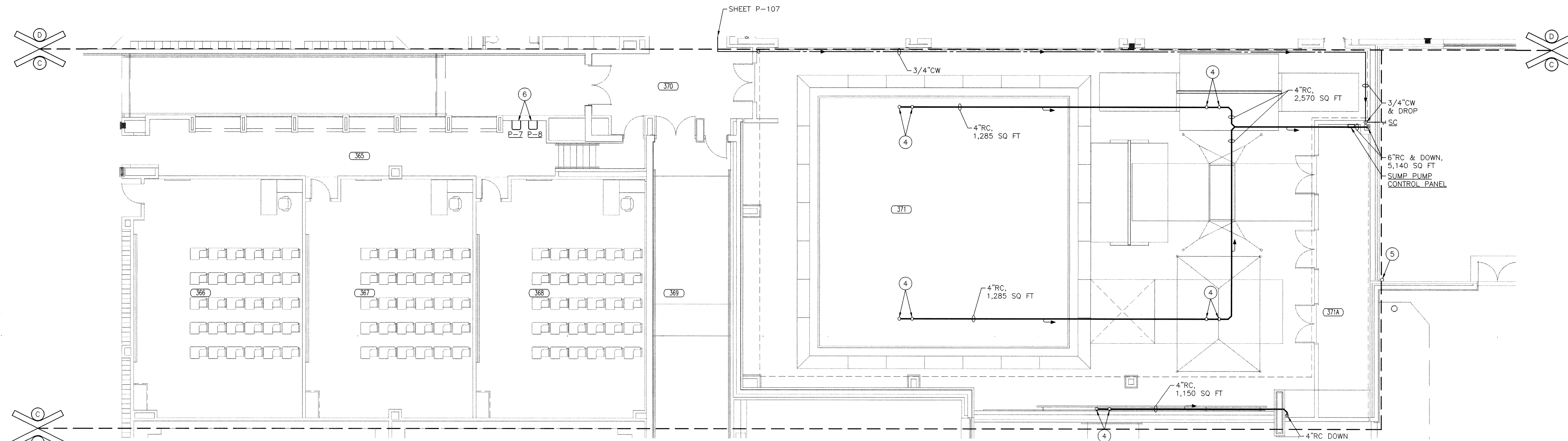
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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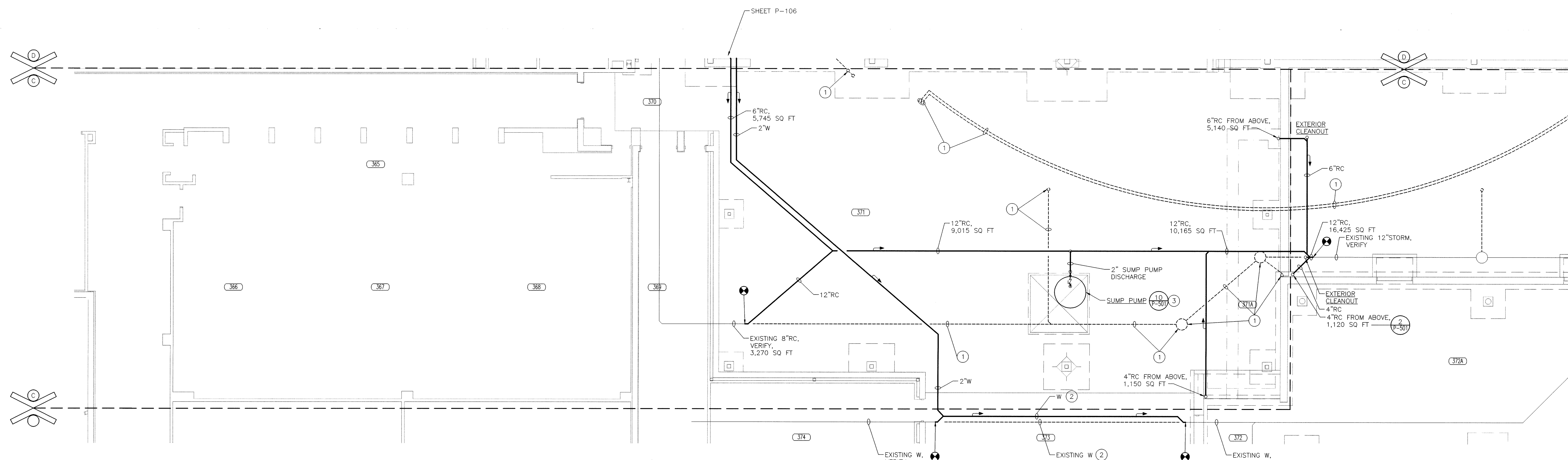
D	P-108
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- ① REMOVE EXISTING PIPE, RISER, CATCH BASIN/MAN HOLE COMPLETE.
- ② REMOVE AND REPLACE EXISTING SANITARY W WITH CAST IRON W, REPLACE WITH SAME SIZE AS EXISTING. MATCH SLOPE AND ELEVATION.
- ③ 2" PUMP DISCHARGE WITH GATE VALVE AND CHECK VALVE.
- ④ RC FROM RD/OFD ABOVE.
- ⑤ CONNECT 4"RC TO DOWN SPOUT, SEE DETAIL. 2
P-307
- ⑥ INSTALL EWC'S CONNECT TO EXISTING CW, W AND V ADJUSTING SERVICES AS REQUIRED.

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.



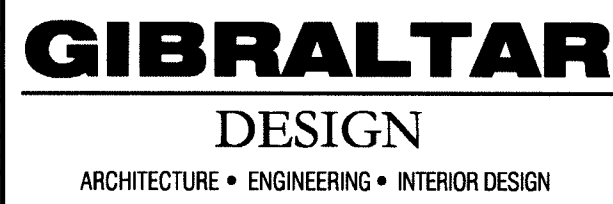
SCALE: 1/8" = 1'-0"



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



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



**RENOVATIONS, ADDITIONS
AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP**

- ### 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.

- ### 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.



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DATE
03/19/07

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MBW

DRAWN BY
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CAC

REGISTERED
NO.
PE 19800066
STATE OF
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PROFESSIONAL ENGINEER

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PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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E P-109



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

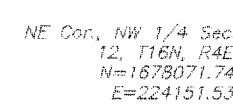




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<p>DRAWING PLUMBING DETAILS</p>	
<p>PROJECT LAWRENCE CENTRAL HIGH SCHOOL</p>	
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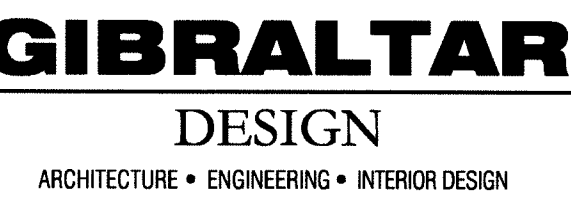


SCALE: 1" = 40'-0"



- TWO (2) WORKING DAYS BEFORE COME





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



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FJB

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DRAWING UNIT "A" ELECTRICAL

FIRST FLOOR DEMOLITION PLAN

PROJECT _____

LAWRENCE CENTRAL HIGH SCHOOL

GIBBART DESIGN	SHEET
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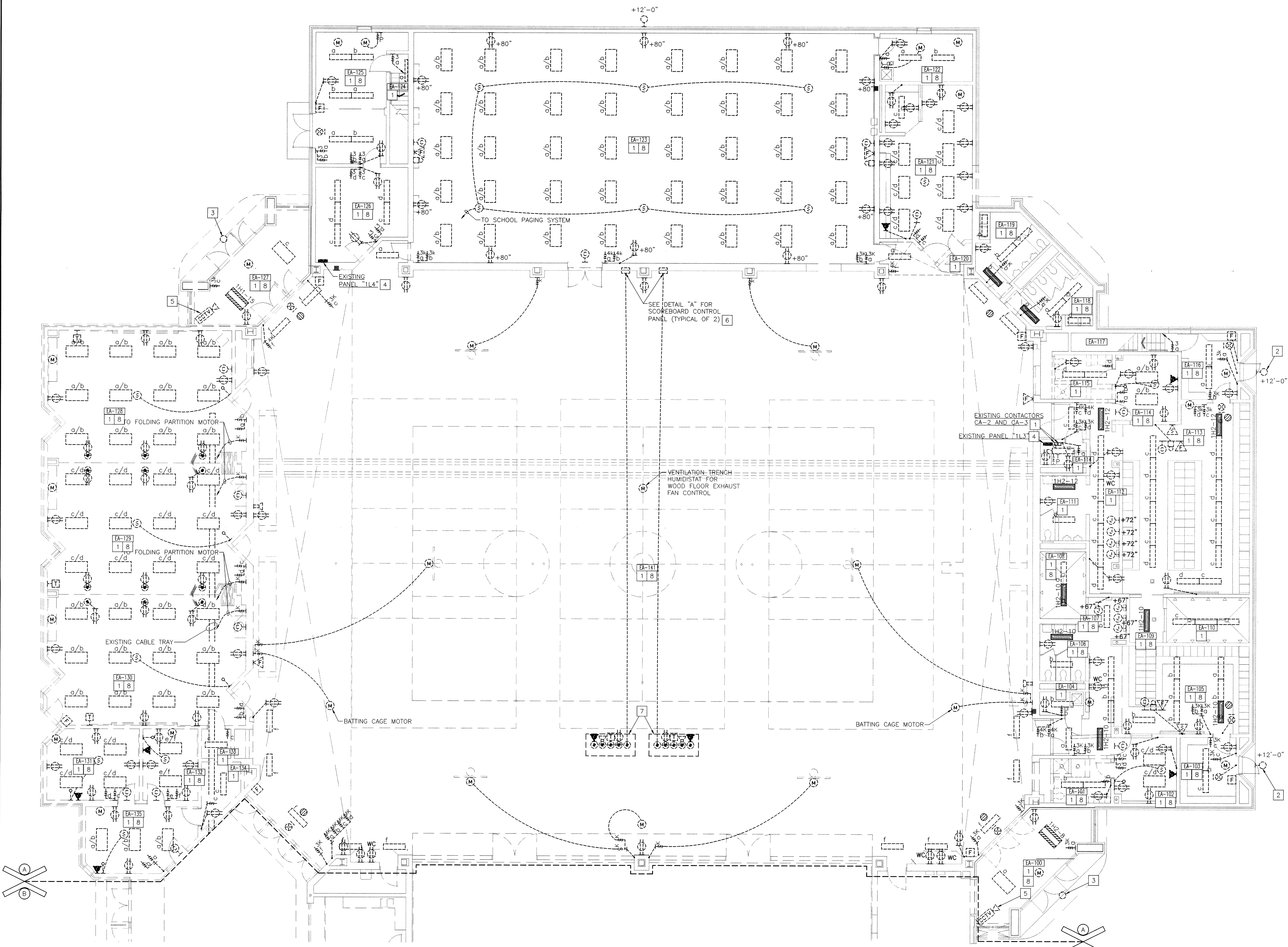
A ED101

A	LD101
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ELECTRICAL DEMOLITION PLAN NOTES

(THESE NOTES APPLY TO THIS SHEET ONLY)

- 1 REMOVE ALL OF THE EXISTING ELECTRICAL EQUIPMENT AND WIRING INCLUDING LIGHTING FIXTURES AND WIRING DEVICES IN THIS ROOM. AND REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
- 2 REMOVE EXISTING EXTERIOR LIGHTING FIXTURES AND ASSOCIATED CONDUIT AND WIRE BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
- 3 REMOVE EXISTING CANOPY LIGHTING FIXTURES AND ALL ASSOCIATED CONDUIT AND WIRE BACK TO THEIR SOURCE, UNLESS OTHERWISE NOTED.
- 4 REMOVE EXISTING PANEL AND ALL ASSOCIATED CONDUIT AND WIRE BACK TO THEIR SOURCE. INTERFERE EXISTING BRANCH CIRCUITS SERVING EXISTING DEVICES AND EQUIPMENT THAT REMAIN AND EXTEND THEM TO THE NEW PANELS AS INDICATED.
- 5 REMOVE EXISTING CCTV CAMERA AND TURN OVER TO THE OWNER.
- 6 GUT EXISTING SCOREBOARD CONTROL PANEL. REMOVE ALL ASSOCIATED CONDUITS NOT CONCEALED WITHIN FLOORS OR WALLS AND REMOVE ALL ASSOCIATED WIRING BACK TO THEIR SOURCE.
- 7 DISCONNECT EXISTING FLOOR BOX AND FLOOR BOX MOUNTED DEVICES. DISCONNECT AND REMOVE ASSOCIATED WIRING BACK TO THEIR SOURCE. REMOVE ALL CONDUIT NOT CONCEALED IN THE FLOOR OR WALLS BACK TO THEIR SOURCE. CAP ALL CONDUITS FLUSH WITH THE FLOOR.
- 8 DISCONNECT, REMOVE AND TURN OVER TO THE OWNER ALL EXISTING FIRE ALARM DEVICES (PULL STATIONS, DETECTORS, HORNS, STROBES ETC.).



UNIT "A" ELECTRICAL FIRST FLOOR DEMOLITION PLAN

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

NOTE: REMOVE ALL EXISTING LIGHTING FIXTURES, SWITCHES, SPEAKERS, FIRE ALARM DEVICES AND EQUIPMENT, ELECTRICAL DEVICES AND EQUIPMENT IN THIS UNIT AND ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE SOURCE UNLESS OTHERWISE NOTED.



DETAIL A
NOT TO SCALE

A ED101

A	LD101
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PROJECT
**LAWRENCE
CENTRAL
HIGH
SCHOOL**
RENOVATIONS, ADDITIONS
AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



1	EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
2	REMOVE ALL OF THE EXISTING ELECTRICAL EQUIPMENT AND DEVICES INCLUDING LIGHTING FIXTURES AND WIRING DEVICES, AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO THEIR SOURCE UNLESS OTHERWISE NOTED.
3	REMOVE EXISTING ELECTRICAL EQUIPMENT AND ALL ASSOCIATED CONDUITS AND WIRES BACK TO THE SOURCE UNLESS OTHERWISE NOTED.
4	REMOVE ALL OF THE EXISTING ELECTRICAL EQUIPMENT AND DEVICES INCLUDING LIGHTING FIXTURES AND WIRING DEVICES, AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO THEIR SOURCE UNLESS OTHERWISE NOTED.
5	REMOVE EXISTING CABLE TRAY. REMOVE ASSOCIATED CABLES BACK TO THE SOURCE.
6	RELOCATE EXISTING CABLE TRAY AND CABLES - SEE SHEET EP FOR NEW LOCATION.
7	REMOVE EXISTING CCTV CAMERA AND TURN OVER TO OWNER.
8	DISCONNECT, REMOVE AND TURN OVER TO THE OWNER ALL EXISTING FIRE ALARM DEVICES (PULL STATIONS, DETECTORS, HORNS, STROBE ETC.).

REMOVE ALL EXISTING CONDUIT AND WIRE SERVING ALL ELECTRICAL EQUIPMENT AND DEVICES, NOT LIMITED TO ELECTRICAL PANELS, LIGHTING FIXTURES, SWITCHES, RECEPTACLES, VOICE/VIDEO/DATA OUTLETS, FIRE ALARM EQUIPMENT AND DEVICES, SOUND SYSTEMS, ETC IN THE PORTION OF THE BUILDING FROM THIS LINE ALL THE WAY BACK TO THE SOURCE.

DISCONNECT ALL ELECTRICAL SERVICES TO THIS AREA OF THE BUILDING. CUT OFF ALL CONDUITS AND WIRE ALONG THIS LINE AND PREPARE FOR DEMOLITION BY MASS BUILDING CONTRACTOR. ENSURE THAT THERE ARE NO LIVE WIRES IN THIS PORTION OF THE BUILDING.

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



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



REMOVE ALL EXISTING CONDUIT AND WIRE SERVING ALL ELECTRICAL EQUIPMENT AND DEVICES, NOT LIMITED TO ELECTRICAL PANELS, LIGHTING FIXTURES, SWITCHES, RECEPTACLES, VOICE/VIDEO/DATA OUTLETS, FIRE ALARM EQUIPMENT AND DEVICES, SOUND SYSTEMS, ETC IN THE PORTION OF THE BUILDING FROM THIS LINE ALL THE WAY BACK TO THE SOURCE.

DISCONNECT ALL ELECTRICAL SERVICES TO THIS AREA OF THE BUILDING. CUT OFF ALL CONDUITS AND WIRE ALONG THIS LINE AND PREPARE FOR DEMOLITION BY MASS BUILDING CONTRACTOR. ENSURE THAT THERE ARE NO LIVE WIRES IN THIS PORTION OF THE BUILDING.

DRAWING
UNIT "B" ELECTRICAL
FIRST FLOOR AND SECOND
FLOOR DEMOLITION PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

GIBRALTAR DESIGN	SHEET
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B	ED103
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The diagram shows a cross-section of a cell. The Golgi apparatus is represented by a series of stacked, flattened sacs. The topmost sac is labeled 'A'. Below it is a smaller sac labeled 'B'. The middle sac is labeled 'C' and is shaded dark grey. Below 'C' is another small sac labeled 'D'. The bottommost sac is labeled 'E' and is shaded light grey. The entire Golgi apparatus is situated near the nucleus, which is a large, dark, spherical structure on the left side of the cell.

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MFJ	
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DRAWING
UNIT "C" ELECTRICAL
FIRST FLOOR
DEMOLITION PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

GIBRALTAR DESIGN	SHEET
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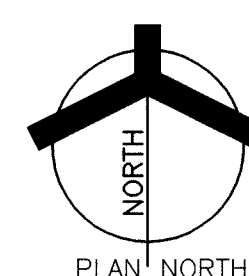
C	ED104
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- 1 EXISTING ELECTRICAL EQUIPMENT IN THIS ROOM SHALL REMAIN, UNLESS OTHERWISE NOTED.
- 2 EXISTING DISPLAY LIGHTING FIXTURES AND CONTROLS SHALL REMAIN.
- 3 REMOVE ALL EXISTING ELECTRICAL LIGHTING FIXTURES IN THIS ROOM AND ALL ASSOCIATED LIGHTING CONTROLS, CONDUIT AND WIRING. REPAIR POWER SOURCE UNLESS OTHERWISE NOTED.
- 4 REMOVE ALL OF THE EXISTING ELECTRICAL EQUIPMENT AND DEVICES, INCLUDING LIGHTING FIXTURES AND WIRING DEVICES, AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO THEIR SOURCE UNLESS OTHERWISE NOTED.
- 5 REMOVE EXISTING LIGHTING FIXTURES IN SUCH A MANNER AS TO KEEP ALL OTHER LIGHTING FIXTURES THAT REMAIN IN SERVICE. REMOVE ALL ASSOCIATED CONDUIT THAT IS NOT REQUIRED TO KEEP THE REMAINING LIGHTING FIXTURES IN SERVICE.
- 6 REMOVE, STORE AND REINSTALL EXISTING EXIT SIGN. SEE SHEET EL104 FOR NEW LOCATION.
- 7 SUPPORT ALL EXISTING CEILING MOUNTED EQUIPMENT AND DEVICES IN THIS ROOM TO ACCOMMODATE CEILING DEMOLITION AND THEN REINSTALL IN NEW CEILING.
- 8 SUPPORT ALL EXISTING CONDUIT AND WIRE LOCATED ABOVE THE CEILING IN THIS ROOM TO ACCOMMODATE THE EXISTING CEILING DEMOLITION AND INSTALLATION OF THE NEW CEILING.
- 9 DISCONNECT AND REMOVE EXISTING CCTV CAMERA AND TURN OVER TO OWNER.
- 10 DISCONNECT, REMOVE AND TURN OVER TO THE OWNER ALL EXISTING FIRE ALARM DEVICES (PULL STATIONS, DETECTORS, HORNS, STROBES, ETC.).

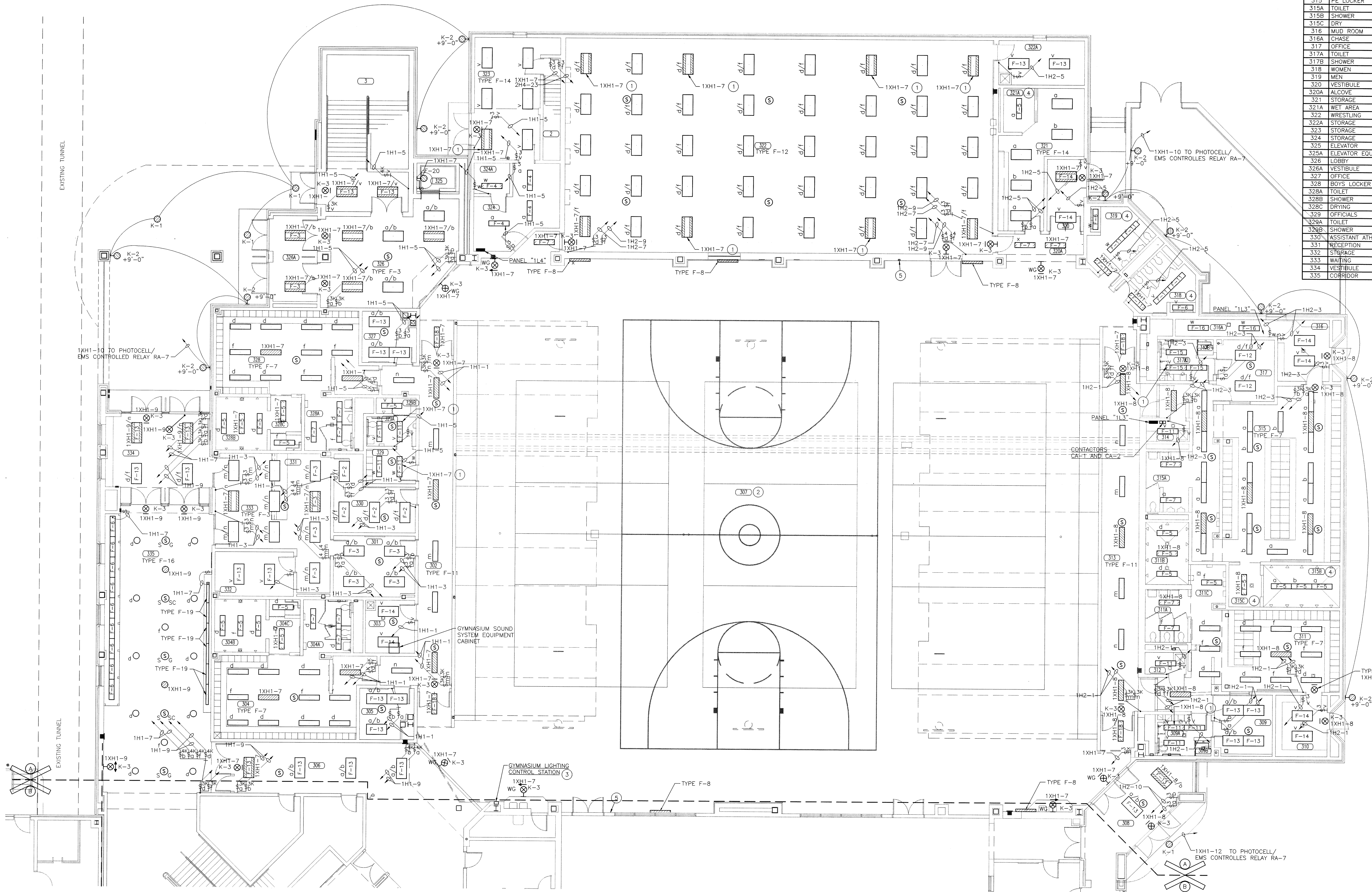
DISCONNECT ALL ELECTRICAL SERVICES TO THIS AREA OF THE BUILDING. CUT OFF ALL CONDUITS AND WIRE ALONG THIS LINE AND PREPARE FOR DEMOLITION BY MASS BUILDING CONTRACTOR. ENSURE THAT THERE ARE NO LIVE WIRES IN THIS PORTION OF THE BUILDING.

REMOVE ALL EXISTING CONDUIT AND WIRE SERVING ALL ELECTRICAL EQUIPMENT AND DEVICES, NOT LIMITED TO ELECTRICAL PANELS, LIGHTING FIXTURES, SWITCHES, RECEPTACLES, VOICE/VIDEO/DATA OUTLETS, FIRE ALARM EQUIPMENT AND DEVICES, SOUND SYSTEMS, ETC IN THE PORTION OF THE BUILDING FROM THIS LINE ALL THE WAY BACK TO THE SOURCE.

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



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

NOTE: CONNECT ALL EMERGENCY LIGHTING FIXTURES AND EXIT LIGHTS TO CIRCUITS INDICATED WITH 3/4" 2-#10 AND 1-#10 GRD



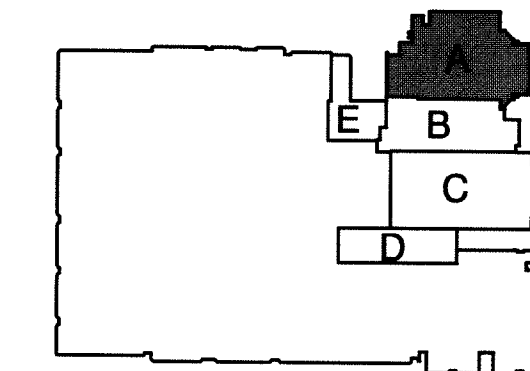
ELECTRICAL PLAN NOTES: (THESE NOTES APPLY TO THIS SHEET ONLY)

1. PROVIDE LIGHTING FIXTURE WITH EMERGENCY GENERATOR TRANSFER DEVICE (GTD). SEE DETAIL ON SHEET E-001.
2. SEE UNIT "A" ELECTRICAL SECOND FLOOR PLAN ON SHEET EL102 FOR OVERHEAD LIGHTING IN THIS ROOM.
3. GYMNASIUM LIGHTING CONTROL STATION. -SEE DETAIL ON SHEET E-602.
4. PROVIDE NEW LIGHTING FIXTURES IN EXISTING CEILING. CUT, PATCH AND PAINT EXISTING CEILING AS NECESSARY TO PROPERLY INSTALL NEW LIGHTING FIXTURE(S) IN THIS ROOM.
5. GYMNASIUM SOUND SYSTEM AUDIO INTERFACE INPUT PANEL. CONNECT TO GYMNASIUM SOUND SYSTEM. SEE SHEET E-704.

ROOM NAME SCHEDULE

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

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



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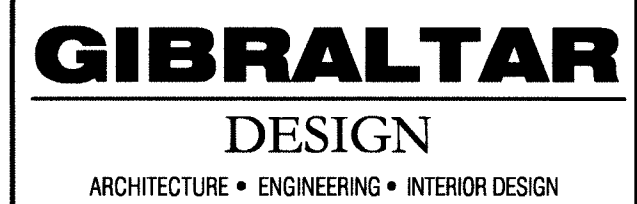
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DRAWING
**UNIT "A" ELECTRICAL
FIRST FLOOR
LIGHTING PLAN**

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

A EL101

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



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DRAWING
UNIT 11 ELECTRICAL

SECOND FLOOR LIGHTING PLAN

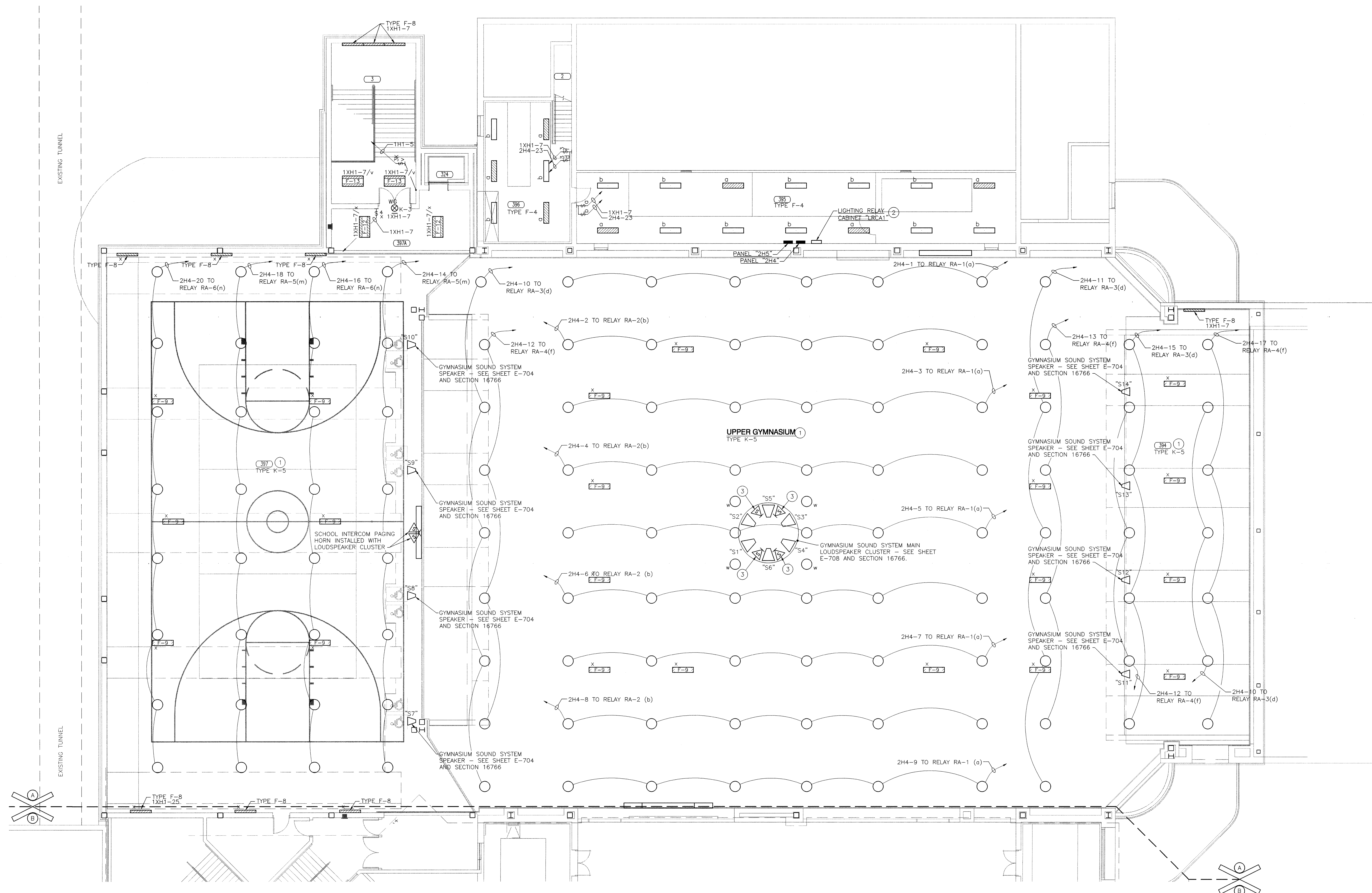
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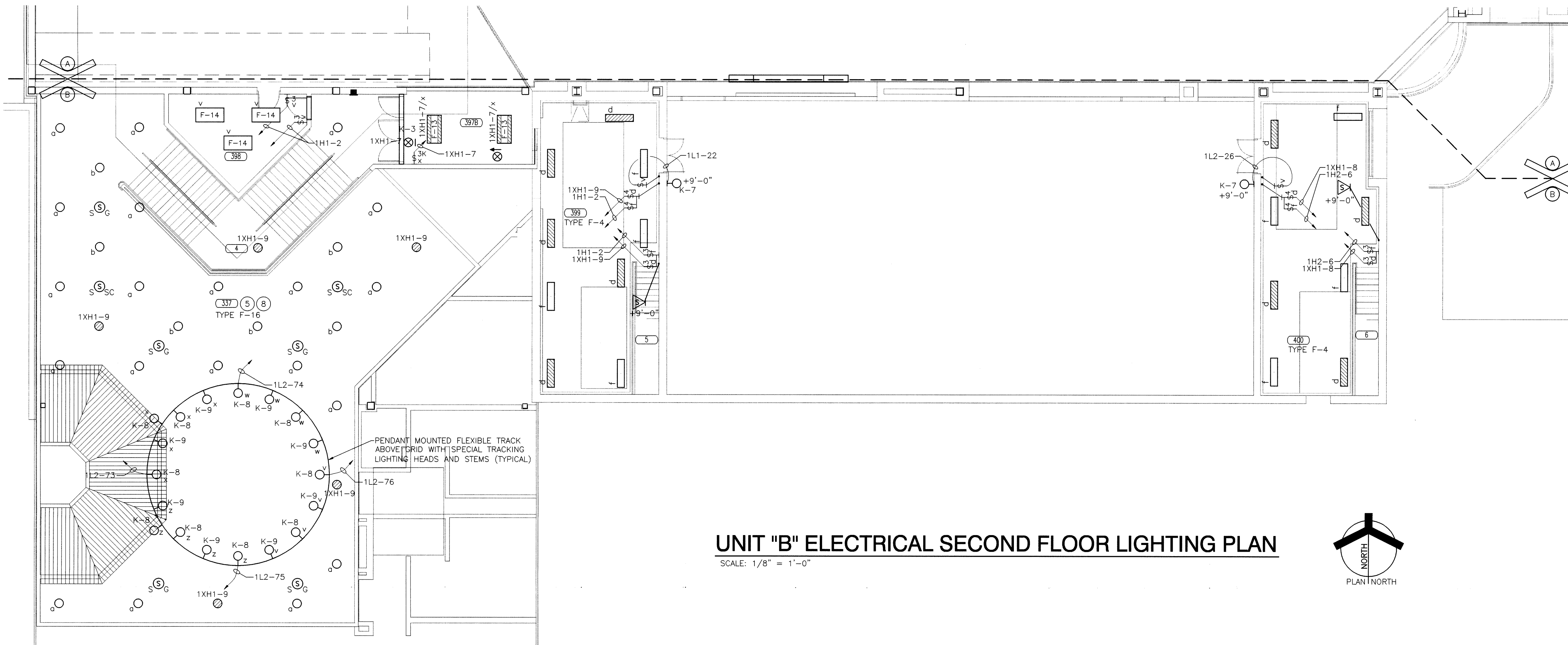
- ① LIGHTING FIXTURES IN THIS ROOM CONTROLLED BY GYMNASIUM LIGHTING CONTROL STATION. SEE UNIT "a" FIRST FLOOR LIGHTING PLAN FOR LOCATIONS.
- ② PROVIDE LIGHTING RELAYS RA-1 THRU RA-6 IN LIGHTING RELAY CABINET "LRCA1"
- ③ SCHOOL INTERCOMMUNICATION SYSTEM PAGING HORN INSTALLED ON BOTTOM CORD OF ROOF TRUSS. COORDINATE LOCATION WITH GYMNASIUM SOUND SYSTEM LOUDSPEAKER CLUSTER.



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

NOTE: CONNECT ALL EMERGENCY LIGHTING FIXTURES AND EXIT LIGHTS TO CIRCUITS INDICATED WITH 3/4" C 2-#10 AND 1-#10 GRD





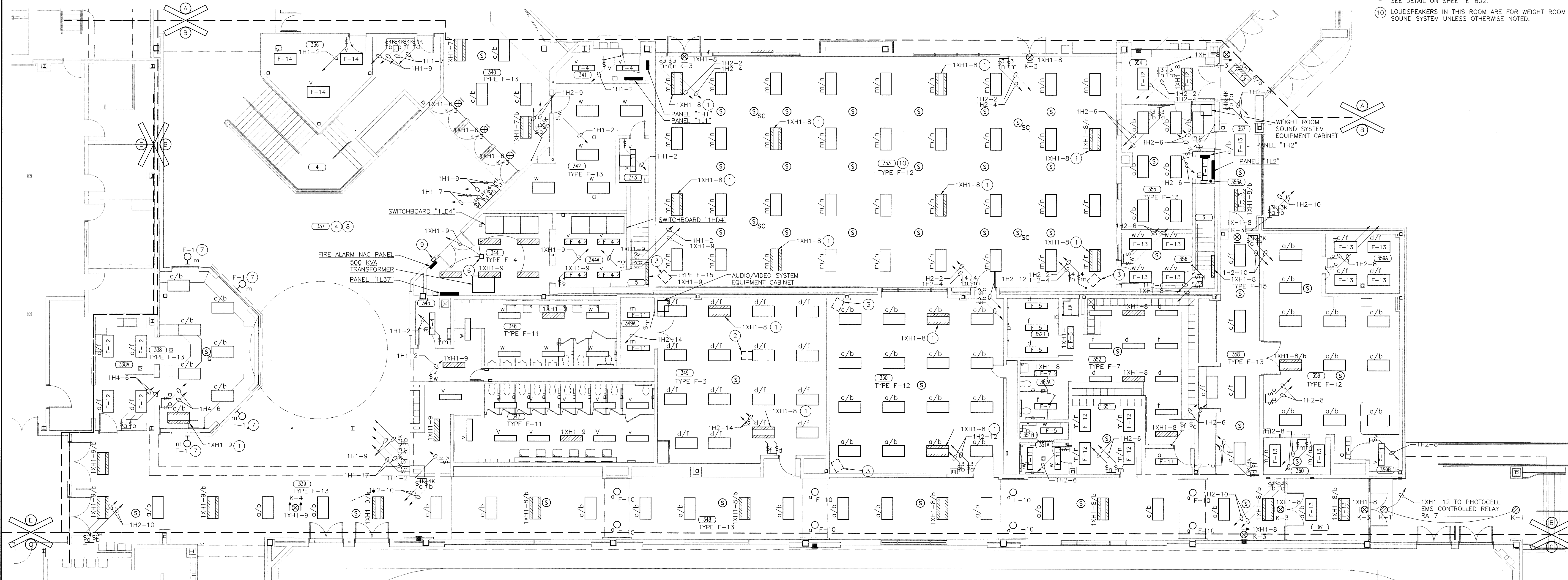
UNIT "B" ELECTRICAL SECOND FLOOR LIGHTING PLAN

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



ELECTRICAL PLAN NOTES:
(THESE NOTES APPLY TO THIS SHEET ONLY)

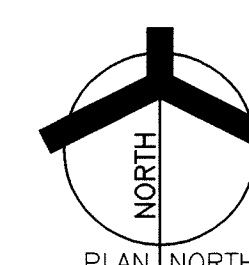
1. PROVIDE LIGHTING FIXTURE WITH EMERGENCY GENERATOR TRANSFER DEVICE (GTD). SEE DETAIL ON SHEET E-001.
2. LOCATION OF CEILING MOUNTED VIDEO PROJECTOR.
3. LOCATION OF TELEVISION MONITOR.
4. SEE UNIT "B" ELECTRICAL SECOND FLOOR LIGHTING PLAN ON THIS SHEET FOR OVERHEAD LIGHTING IN THIS ROOM.
5. SEE UNIT "B" ELECTRICAL FIRST FLOOR LIGHTING PLAN ON THIS SHEET FOR LIGHTING CONTROL IN THIS ROOM.
6. CEILING MOUNTED OCCUPANCY SENSOR - SEE SPECIFICATION SECTION 16950.
7. SEE INTERIOR ELEVATION ON SHEET AE703 FOR EXACT LOCATION.
8. TRACK LIGHTING AND WALL SCONCE LIGHTING CONTROLLED BY TRACK AND SCONCE LIGHTING CONTROL STATION - SEE DETAIL ON SHEET E-602.
9. TRACK AND SCONCE LIGHTING CONTROL STATION - SEE DETAIL ON SHEET E-602.
10. LOUSPEAKERS IN THIS ROOM ARE FOR WEIGHT ROOM SOUND SYSTEM UNLESS OTHERWISE NOTED.



UNIT "B" ELECTRICAL FIRST FLOOR LIGHTING PLAN

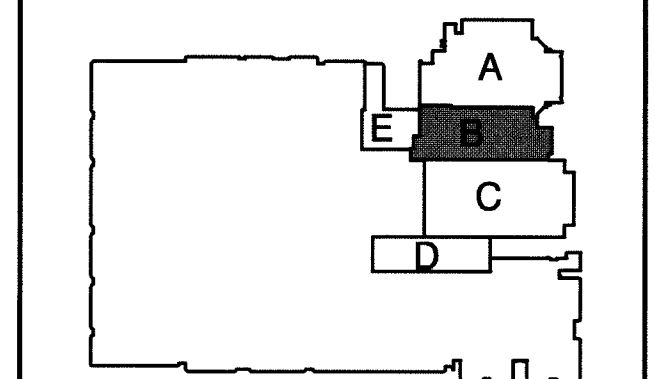
SCALE: 1/8" = 1'-0"

NOTE: CONNECT ALL EMERGENCY LIGHTING FIXTURES AND EXIT LIGHTS TO CIRCUITS INDICATED WITH 3/4" 2-#10 AND 1-#10 GRD



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

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
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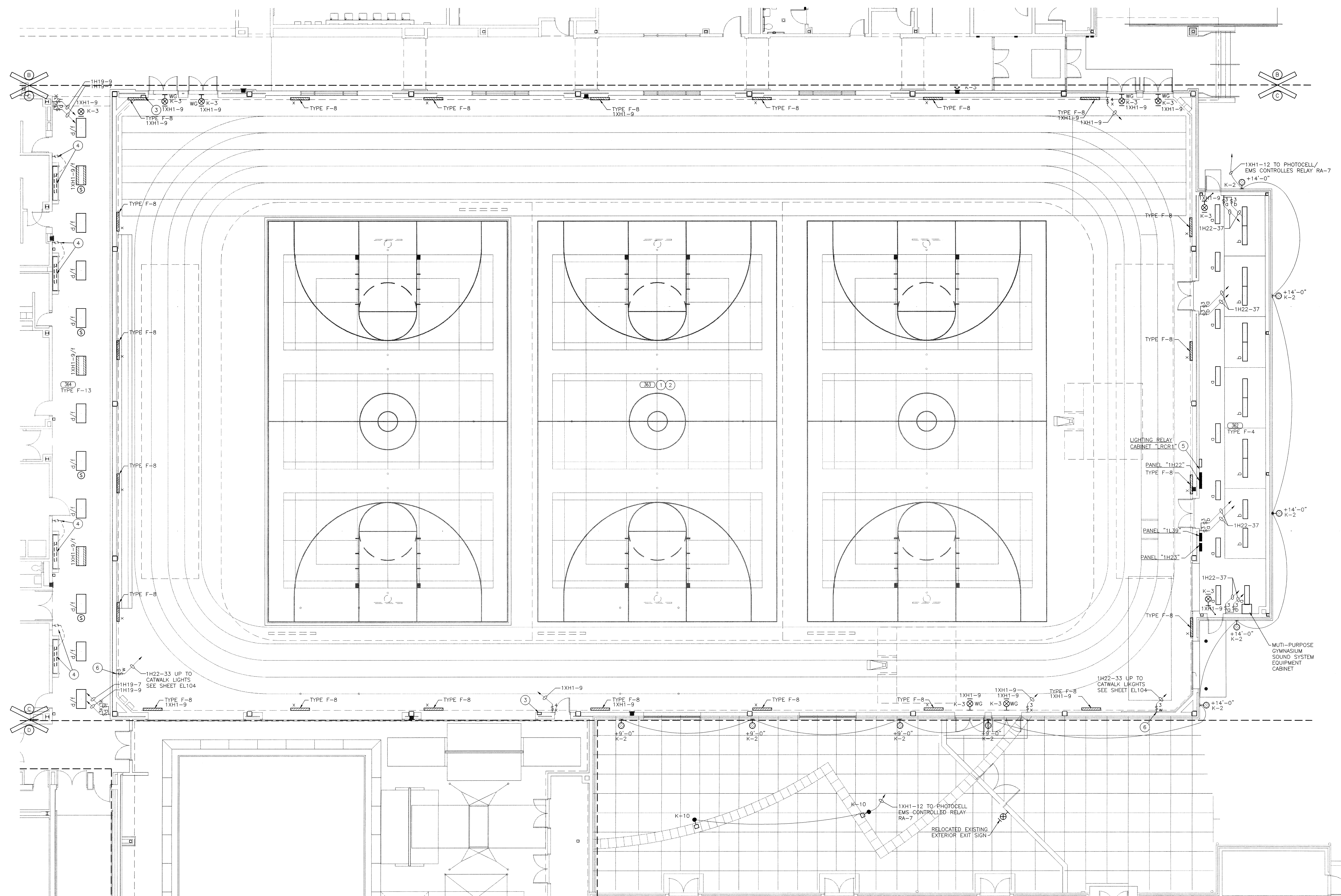
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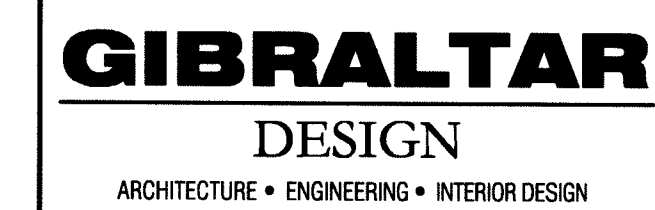
DRAWING
UNIT "B" ELECTRICAL FIRST AND SECOND FLOOR LIGHTING PLANS

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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B EL103



- ① LIGHTING FIXTURES IN THIS ROOM CONTROLLED BY GYMNASIUM LIGHTING CONTROL STATION. SEE UNIT "C" ELECTRICAL FIRST FLOOR LIGHTING PLAN FOR LOCATIONS.
- ② REMOTE BALLAST FOR TYPE K-6 LIGHTING FIXTURES MOUNTED BETWEEN THE STRUCTURAL STEEL AT +36'-0" ABOVE THE FINISHED FLOOR. VERIFY EXACT LOCATION WITH ARCHITECT.
- ③ GYMNASIUMS ROOM SOUND SYSTEM CABINET LOUDSPEAKER. MOUNT TO WALL HORIZONTALLY AT +20'-0" AND AIM DOWNWARD TO PROVIDE COVERAGE FOR PORTABLE BLEACHERS IN THIS AREA.



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Mark F. Jenkins

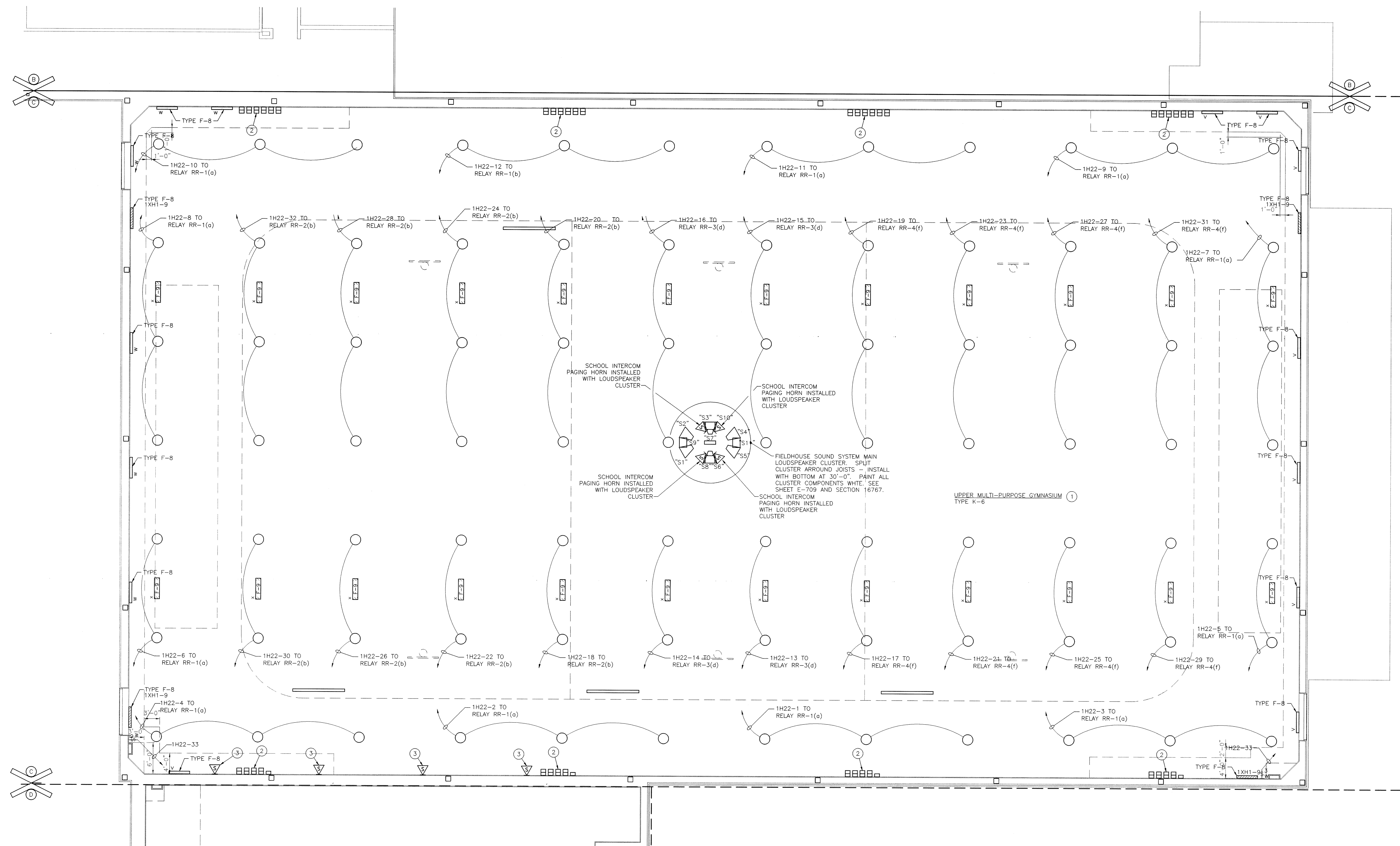
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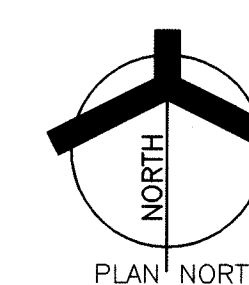
DRAWING
UNIT "C" ELECTRICAL
SECOND FLOOR
LIGHTING PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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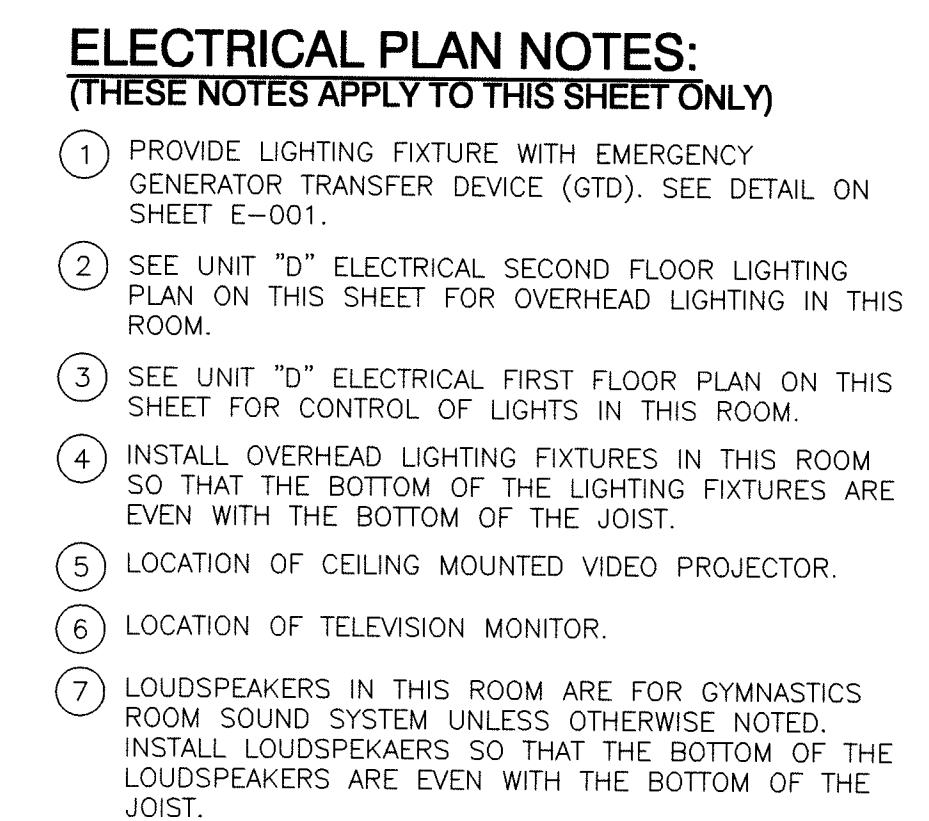
NOTE: CONNECT ALL EMERGENCY LIGHTING FIXTURES AND EXIT LIGHTS TO CIRCUITS INDICATED WITH 3/4" 2-#10 AND 1-#10 GRD





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

NOTE: CONNECT ALL EMERGENCY LIGHTING FIXTURES AND EXIT LIGHTS TO CIRCUITS INDICATED WITH 3/4" 2-#10 AND 1-#10 GRD

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DRAWING
UNIT "D" ELECTRICAL
FIRST FLOOR AND
SECOND FLOOR
LIGHTING PLANS

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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ELECTRICAL PLAN NOTES:
(THESE NOTES APPLY TO THIS SHEET ONLY)

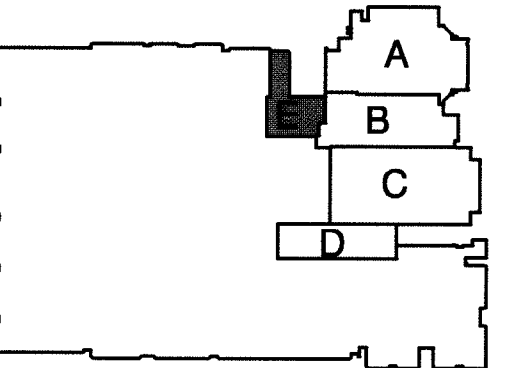
1. CONNECT NEW LIGHTING FIXTURES TO EXISTING CIRCUITS AND CONTROLS.

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



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



KEY PLAN

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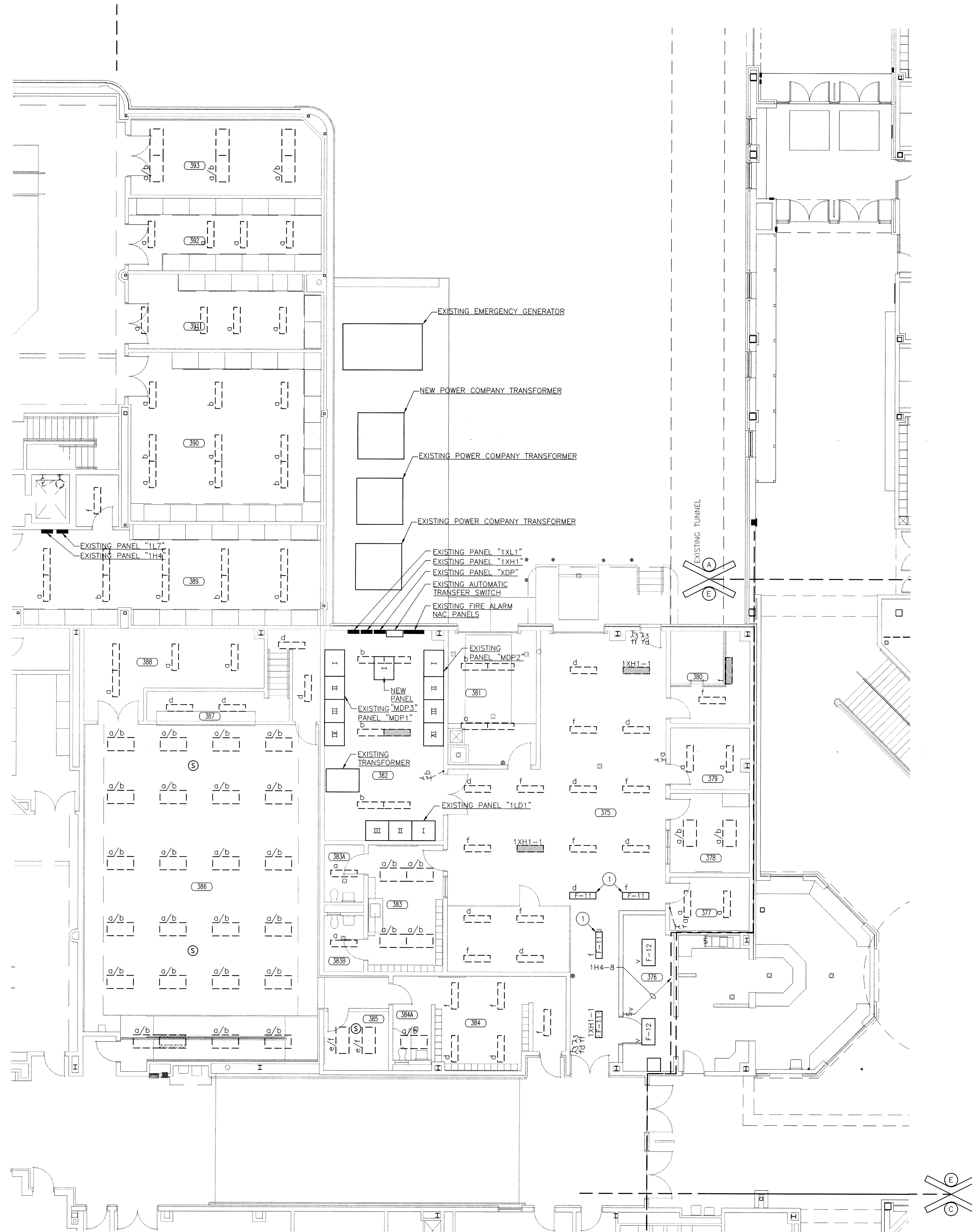
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DRAWING
UNIT "E" ELECTRICAL
FIRST FLOOR
LIGHTING PLAN

LAWRENCE CENTRAL HIGH SCHOOL

IBRALTAR DESIGN SHEET

E EL107



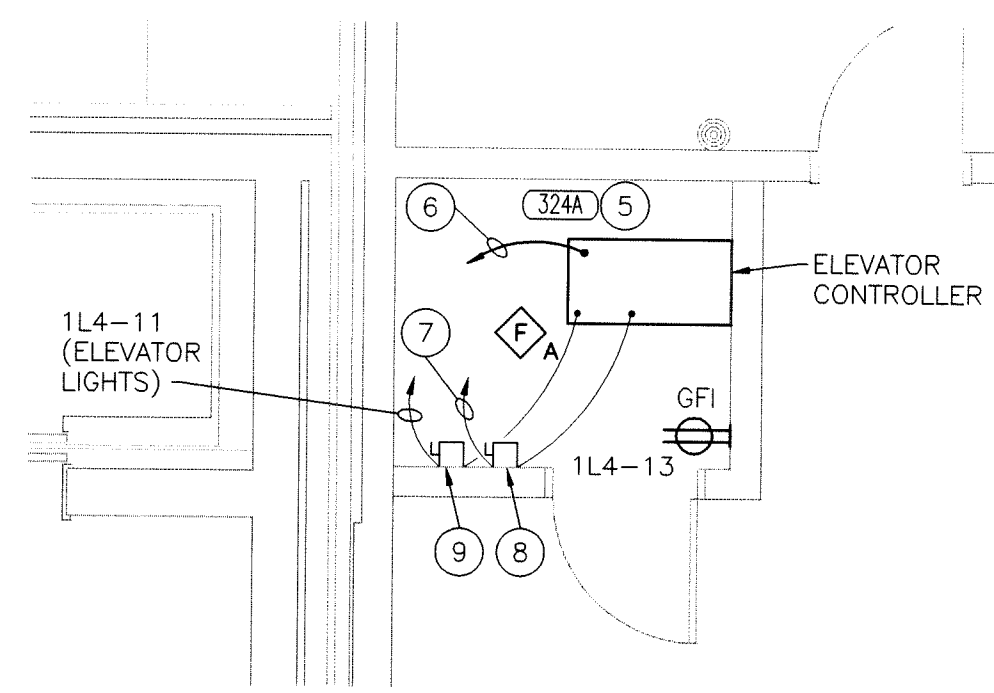
UNIT "E" ELECTRICAL FIRST FLOOR LIGHTING PLAN



Mon, 3/19/2007 - 5:56 pm
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AUXILIARY PLAN OF ELEVATOR EQUIPMENT

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



PLAN NOTES: (THESE NOTES APPLY TO THIS SHEET ONLY)

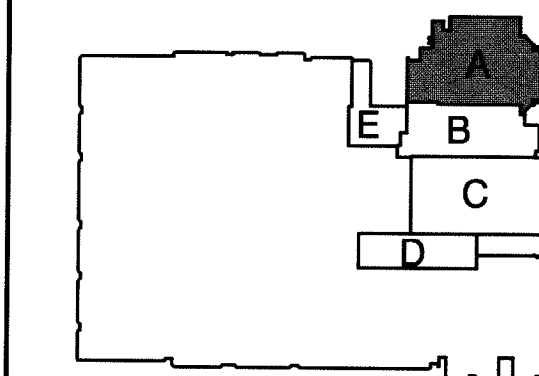
- 3/4" C, 2-#10 AND 1-#10 GRD.
- THE NEUTRAL WIRE FOR ALL RECEPTACLES IN THIS ROOM INCLUDING THE HOMERUN TO THE APPROPRIATE PANEL SHALL BE #10 AWG.
- 6" WIDE X 3" DEEP CABLE TRAY
- CONTROLLER FOR MOTORIZED BACKSTOP, PROVIDED BY BACKSTOP SUPPLIER, TO BE INSTALLED BY DIVISION 16. DIVISION 16 TO PROVIDE ALL CONTROL WIRING.
- VERIFY EQUIPMENT LAYOUT AND ELECTRICAL ROUGH-IN REQUIREMENTS WITH ELEVATOR MANUFACTURER.
- PROVIDE TELEPHONE CABLE FROM THE ELEVATOR CONTROLLER BACK TO THE IDF EQUIPMENT CABINET LOCATED IN ROOM 343.
- SEE POWER DISTRIBUTION DIAGRAM ON SHEET E-703.
- 3P-100 AMP FUSIBLE SAFETY SWITCH FUSED AT 100 AMPS. PROVIDE SAFETY SWITCH WITH AUX. CONTACTOR FOR BATTERY LOWERING.
- PROVIDE A 1P-20 AMP CIRCUIT BREAKER IN A NEMA 1 ENCLOSURE FOR THE ELEVATOR CAB LIGHTS. THE CIRCUIT BREAKER SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- DISCONNECT PROVIDED BY DIVISION 15.
- REINSTALL EXISTING CONTROLLER FOR MOTORIZED BATTING CAGE. DIVISION 16 TO PROVIDE ALL CONTROL WIRING.
- 12"x12"x6" NEMA-1 JUNCTION BOX. COORDINATE MOUNTING HEIGHT AND LOCATION WITH BLEACHER MANUFACTURER AND SECTION 12760.
- 3P, 30 AMP, 208 VOLT NON-FUSED DISCONNECT SWITCH IN A NEMA-1 ENCLOSURE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH BLEACHER MANUFACTURER AND SECTION 12760.
- REINSTALL EXISTING CONTROLLER FOR MOTORIZED PROJECTION SCREEN. DIVISION 16 TO PROVIDE ALL CONTROL WIRING.
- MOUNT DEVICE ON FACE OF BLEACHER'S THIRD ROW. COORDINATE WITH BLEACHER CONSTRUCTION. SEE TYPICAL BLEACHER WIRING DETAIL ON SHEET E-602.
- WALL MOUNTED 12"x12"x6" NEMA-1 JUNCTION BOX FOR CONNECTION TO DEVICES ON BLEACHER SKIRT. COORDINATE HEIGHT AND LOCATION WITH BLEACHER MANUFACTURER AND SECTION 12760.
- FLEXIBLE POWER CABLE, #12/3 TYPE "SJO" ATTACHED TO UNDERSIDE OF BLEACHER SEATING AND PROVIDED WITH BRIDALS AND SERVICE LOOPS TO ALLOW CABLE TO MOVE WITH THE BLEACHERS. CABLE TO ALLOW FULL MOVEMENT OF BLEACHERS FROM FULLY CLOSED TO FULLY OPEN WITHOUT BINDING.
- FLEXIBLE VOICE CABLE, SEE SECTION 16742, ATTACHED TO UNDERSIDE OF BLEACHER SEATING AND PROVIDED WITH BRIDALS AND SERVICE LOOPS TO ALLOW CABLE TO MOVE WITH THE BLEACHERS. CABLE TO ALLOW FULL MOVEMENT OF BLEACHERS FROM FULLY CLOSED TO FULLY OPEN WITHOUT BINDING.
- 1" C TO NEAREST CORRIDOR CABLE TRAY FOR VOICE/DATA CABLEING.
- GYMNASIUM SCOREBOARDS CONTROLS JUNCTION BOX. SEE GYMNASIUM 307 SCOREBOARD SYSTEM DIAGRAM ON SHEET E603 FOR CONDUIT AND CABLE REQUIREMENTS.
- MOUNT DISPLAY CASE RECEPTACLE AT +12" TO THE BOTTOM OF THE DEVICE FROM THE BOTTOM OF THE DISPLAY CASE.
- UNDER ALTERNATE BID PROVIDE A JUNCTION BOX WITH COVERPLATE FOR ELECTRONIC FLUSH VALVE TRANSFORMER. VERIFY ELECTRICAL ROUGH-IN REQUIREMENTS AND ROUGH-IN LOCATION WITH DIVISION 15.
- UNDER ALTERNATE BID PROVIDE A DUPLEX RECEPTACLE UNDER THE SINK FOR ELECTRONIC WATER VALVE TRANSFORMER. VERIFY ELECTRICAL ROUGH-IN REQUIREMENTS AND ROUGH-IN LOCATION WITH DIVISION 15.
- INSTALL RECEPTACLE AT +20" ABOVE THE ELEVATOR PIT FLOOR.
- SCOREBOARD TIME DISPLAY JUNCTION BOX. SEE GYMNASIUM 307 SCOREBOARD SYSTEM DIAGRAM ON SHEET E603 FOR CONDUIT AND CABLE REQUIREMENTS.
- VFD FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT.
- TEMPERATURE CONTROL PANEL FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT.
- IN THIS ROOM REUSE EXISTING OUTLET BOXES FOR NEW WIRING DEVICES.
- REUSE EXISTING OUTLET BOX FOR NEW WIRING DEVICE.
- GYMNASIUM SCOREBOARDS JUNCTION BOX (24"x24"x4"). SEE GYMNASIUM 307 SCOREBOARD DIAGRAM ON SHEET E603.
- SECURE THE FLOOR BOX TO THE EXISTING CONCRETE FLOOR LOCATED BELOW THE BASKETBALL WOOD FLOOR.
- INSTALL IN TOP REAR OF CABINET.
- PROVIDE 3/4" C FROM THE TYPE "C" FLOOR BOX TO THE POWER PANEL INDICATED. SEE GYMNASIUM 307 SCOREBOARD DIAGRAM ON SHEET E603 FOR CONDUIT AND CABLE REQUIREMENTS FOR THE TYPE "D" FLOOR BOX. PROVIDE 1" C FROM THE TYPE "D" FLOOR BOX TO THE TYPE "D" TELEVISION OUTLET LOCATED ABOVE THE EAST BLEACHERS. PROVIDE 1" C FROM THE TYPE "E" FLOOR BOX TO NEAREST CORRIDOR CABLE TRAY FOR VOICE/DATA/VIDEO CABLEING. PROVIDE 1" C FROM THE TYPE "E" FLOOR BOX TO ROOM SOUND SYSTEM MAIN EQUIPMENT FOR SOUND CABLEING. ALL CONDUITS ARE TO BE ROUTED ABOVE THE EXISTING CONCRETE SLAB AND BELOW THE BASKETBALL WOOD FLOOR.

ROOM NAME SCHEDULE

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

LAWRENCE CENTRAL HIGH SCHOOL

RENOVATIONS, ADDITIONS
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UNIT "A" ELECTRICAL
FIRST FLOOR
POWER PLAN

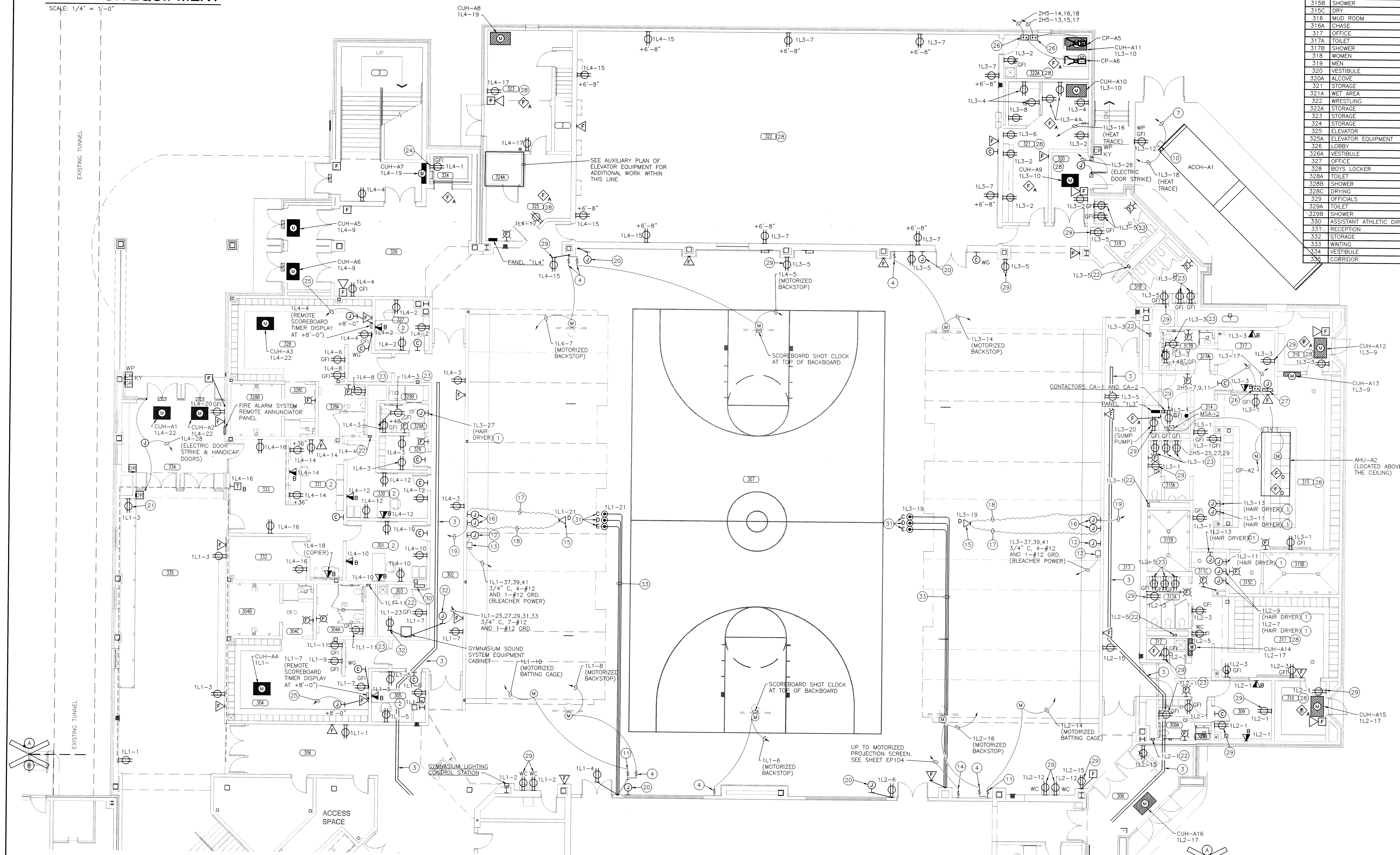
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

GIBRALTAR DESIGN SHEET

A EP101

UNIT "A" ELECTRICAL FIRST FLOOR POWER PLAN

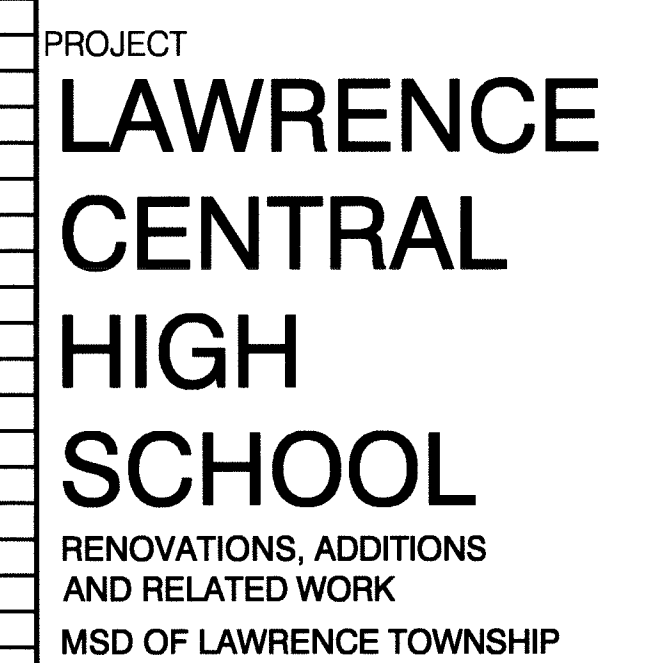
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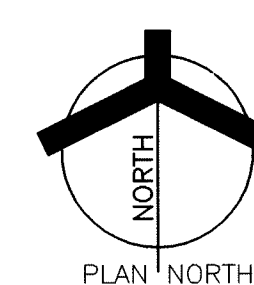
- 2 THE NEUTRAL WIRE FOR ALL RECEPTACLES IN THIS ROOM INCLUDING THE HOMERUN TO THE AC-TRANSFORMER PANEL SHALL BE #10 AWG.
- 3 12" WIDE X 3" DEEP CABLE TRAY
- 4 MOUNT DISPLAY CASE RECEPTACE AT +12" TO THE BOTTOM OF THE DEVICE FROM THE BOTTOM OF THE DISPLAY CASE.
- 5 UNDER ALTERNATE BID PROVIDE A JUNCTION BOX WITH COVERPLATE FOR ELECTRONIC FLUSH VALVE TRANSFORMER. VERIFY ELECTRICAL ROUGH-IN REQUIREMENTS AND ROUGH-IN LOCATION WITH DIVISION 15.
- 6 UNDER ALTERNATE BID PROVIDE A DUPLEX RECEPTACLE UNDER THE SINK FOR ELECTRONIC WATER VALVE TRANSFORMER. VERIFY ELECTRICAL REQUIREMENTS AND ROUGH-IN LOCATION WITH DIVISION 15.

- | | | | |
|----|---|----|---|
| 7 | SCOREBOARD TIME DISPLAY JUNCTION BOX. SEE GYMNASIUM 307 SCOREBOARD SYSTEM DIAGRAM ON SHEET E603 FOR CONDUIT AND CABLE REQUIREMENTS. | 13 | TVSS UNIT TO BE MOUNTED ON STRUCTURAL CHANNELS. |
| 8 | CEILING MOUNTED OUTLETS FOR CEILING MOUNTED VIDEO PROJECTOR SEE SPECIFICATION SECTION 167B3 | 14 | IN THIS ROOM REUSE EXISTING OUTLET BOXES FOR NEW WIRING DEVICES |
| 9 | CEILING MOUNTED OUTLETS FOR CEILING MOUNTED TELEVISION MONITOR SEE SPECIFICATION SECTION 167B3 | 15 | CONTROLLER FOR ROLLING DOOR, PROVIDED BY ROLLING DOOR SUPPLIER, TO BE INSTALLED BY DIVISION 16. DIVISION 16 TO PROVIDE ALL CONTROL WIRING. |
| 10 | INSTALL IN TOP REAR OF CABINET. | 16 | 3/4"x4"-0"WBx-0"TH COMMUNICATION PLYWOOD BACKBOARD FOR TELEVISION SYSTEM EQUIPMENT. PROVIDE 2" CONDUIT FROM TOP OF BACKBOARD TO CABLE TRAY IN CORRIDOR 348. |
| 11 | VFD FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT. | 17 | 6" WIDE X 3" DEEP CABLE TRAY |
| 12 | TEMPERATURE CONTROL PANEL FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT. | | |

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
377B	STORAGE
397	ALCOVE
398	STORAGE
399	MECHANICAL
400	MECHANICAL



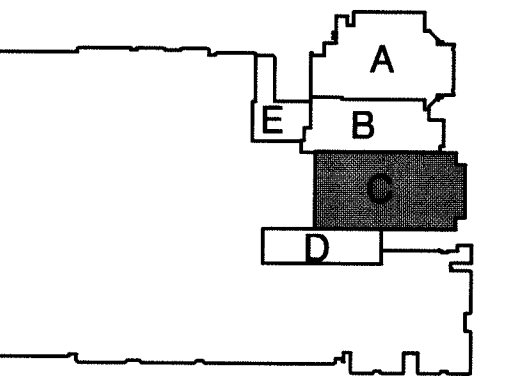
PLAN NORTH



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

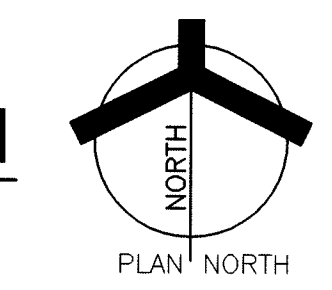


PROJECT
**LAWRENCE
CENTRAL
HIGH
SCHOOL**
RENOVATIONS, ADDITIONS
AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



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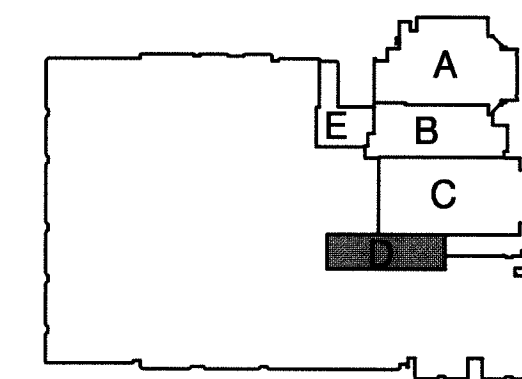


PROJECT


LAWRENCE CENTRAL HIGH SCHOOL

RENOVATIONS, ADDITIONS
AND RELATED WORK

MSD OF LAWRENCE TOWNSHIP



GIBRALTAR DESIGN

PROJECT 06-612	
DATE 03/19/07	
COORDINATED BY FJB	
DRAWN BY NAK	
CHECKED BY MFJ	

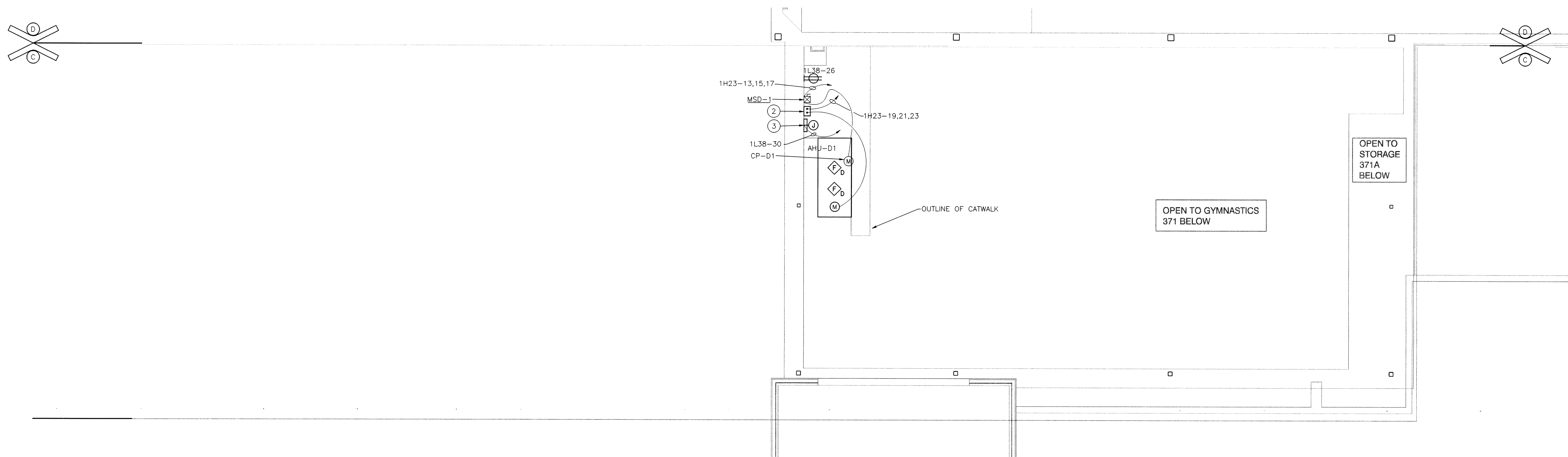
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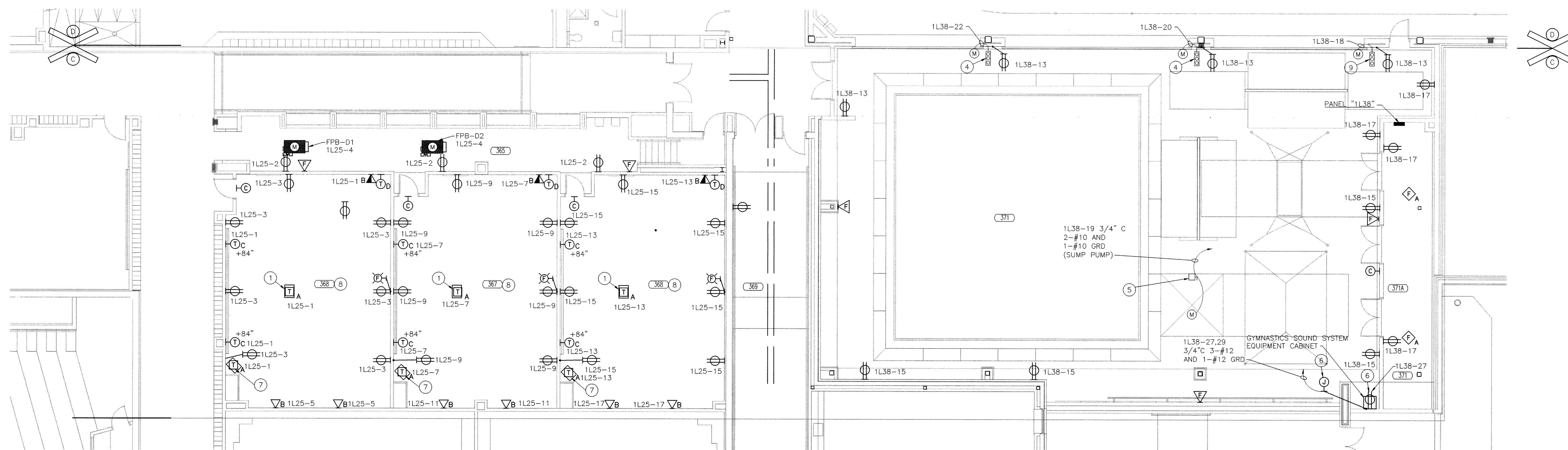
DRAWING UNIT "D" ELECTRICAL FIRST FLOOR AND SECOND FLOOR POWER PLANS
PROJECT LAWRENCE CENTRAL HIGH SCHOOL

© GIBRALTAR DESIGN	SHEET
D	EP106

1	CEILING MOUNTED OUTLETS FOR CEILING MOUNTED VIDEO PROJECTOR SEE SPECIFICATION SECTION 16783.	7	CEILING MOUNTED OUTLETS FOR CEILING MOUNTED TELEVISION MONITOR SEE SPECIFICATION SECTION 16783.
2	VFD FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 15 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT.	8	THE NEUTRAL WIRE FOR ALL RECEPTACLES IN THIS ROOM INCLUDING THE HOMERUN TO THE APPROPRIATE PANEL SHALL BE #10 AWG.
3	TEMPERATURE CONTROL PANEL FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT.		
4	OVERHEAD DOOR CONTROLLER PROVIDED BY OVERHEAD DOOR MANUFACTURER. DIVISION 16 SHALL INSTALL THE CONTROLLER AND PROVIDE ALL CONTROL WIRING.		
5	TOP OF DISCONNECT IS TO BE AT +72" ABOVE THE GYMNASIUM PIT FLOOR.		
6	INSTALL IN TOP REAR OF CABINET.		



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



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

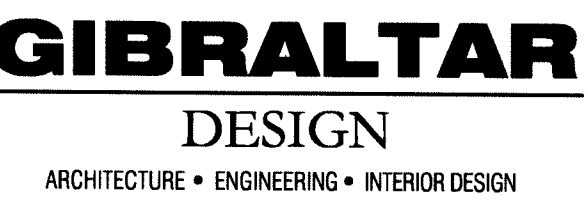
② DISCONNECT SWITCH IS TO BE LOCATED IN LOWER CABINET.

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



MSD OF LAWRENCE TOWNSHIP





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



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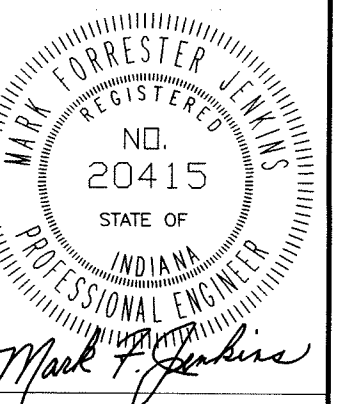
PROJECT
06-612

03/19/07

COORDINATED BY
CJB

AWN BY
JAK

CHECKED BY
MFJ



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EVIDENCES

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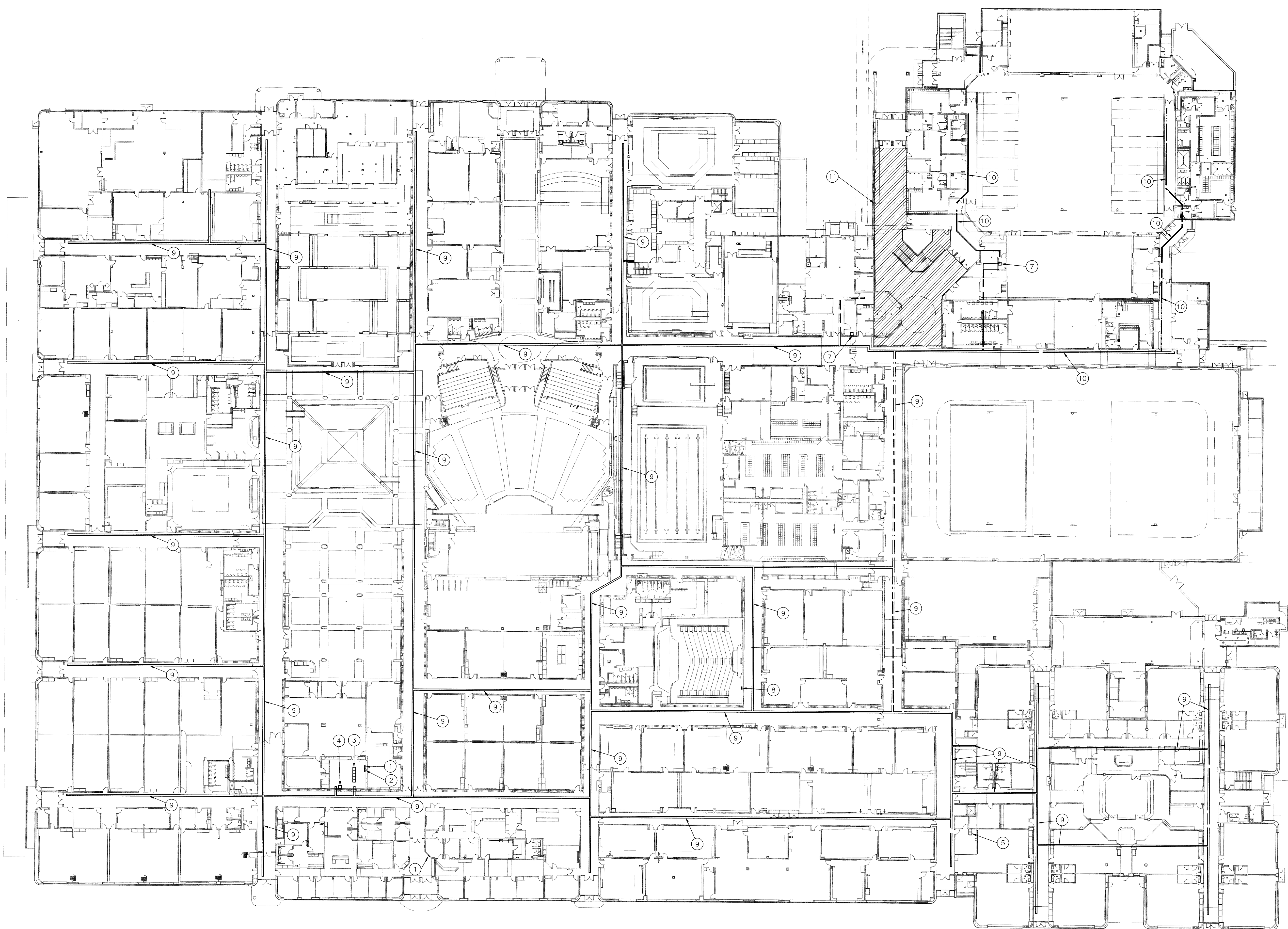
DRAWING
OVERALL ELECTRICAL
FIRST FLOOR
AUXILIARY PLAN

LAWRENCE CENTRAL HIGH SCHOOL

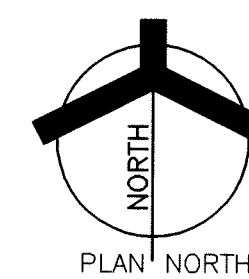
RALTAR DESIGN A-E	SHEET EP108
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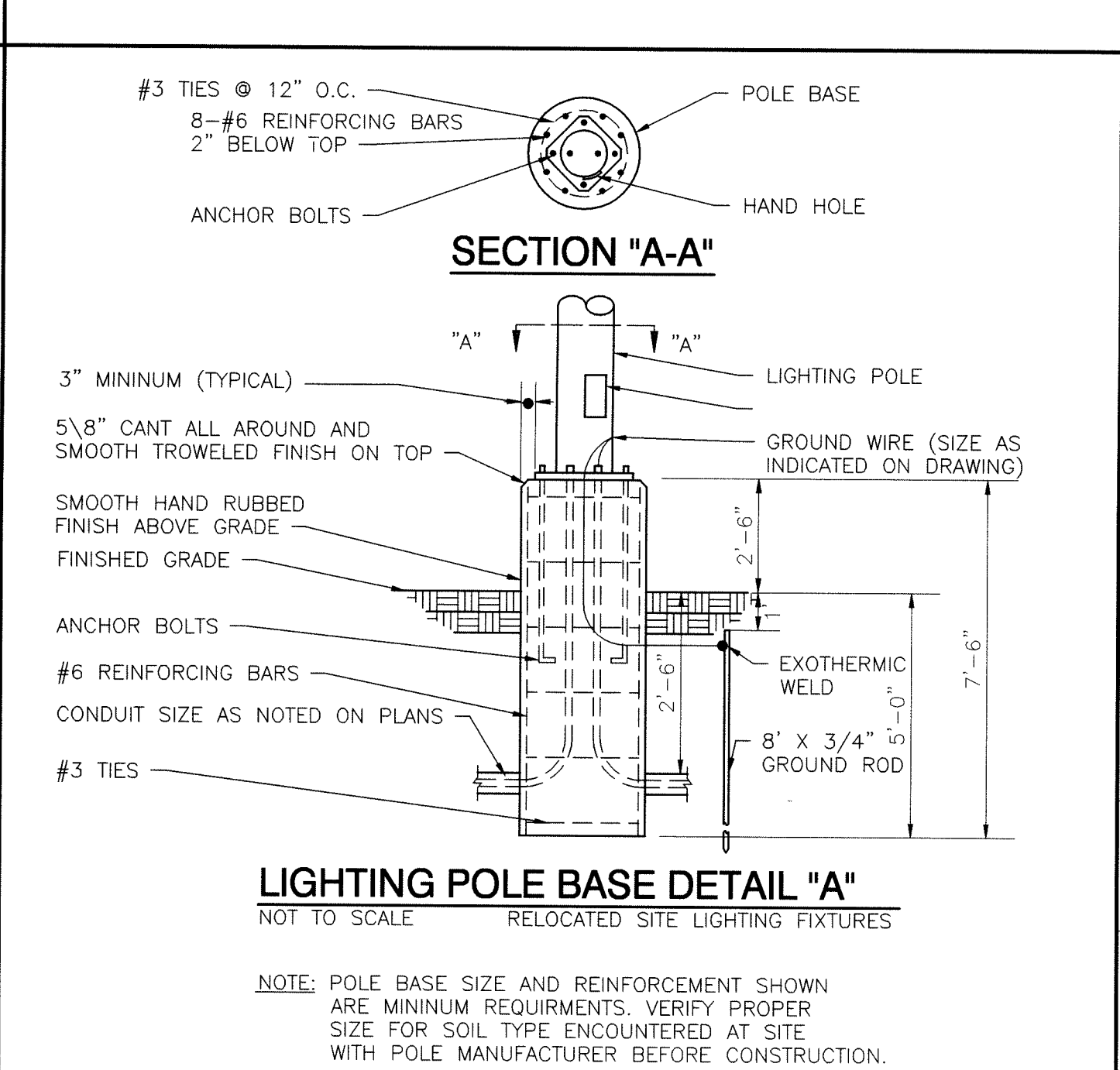
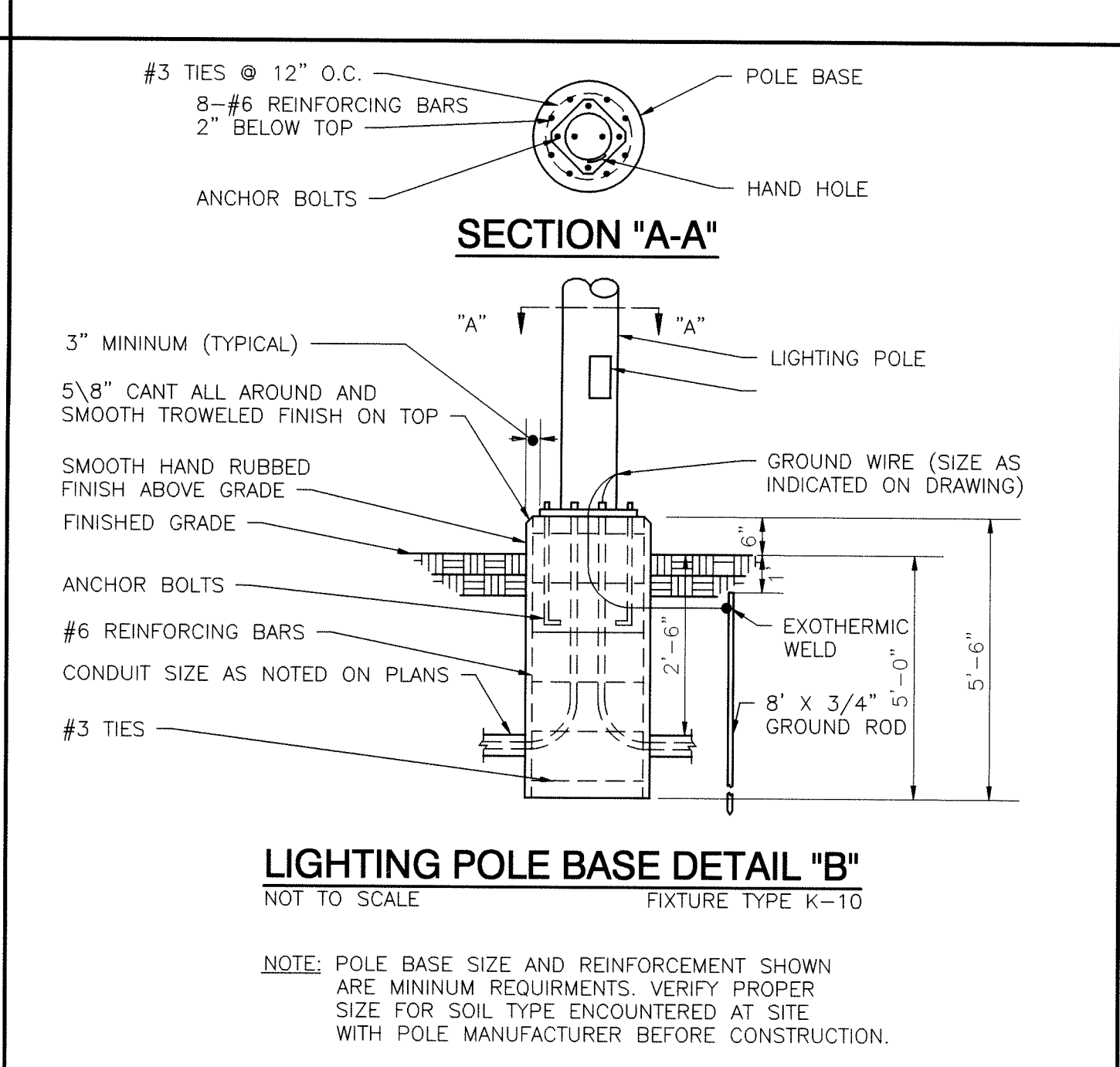
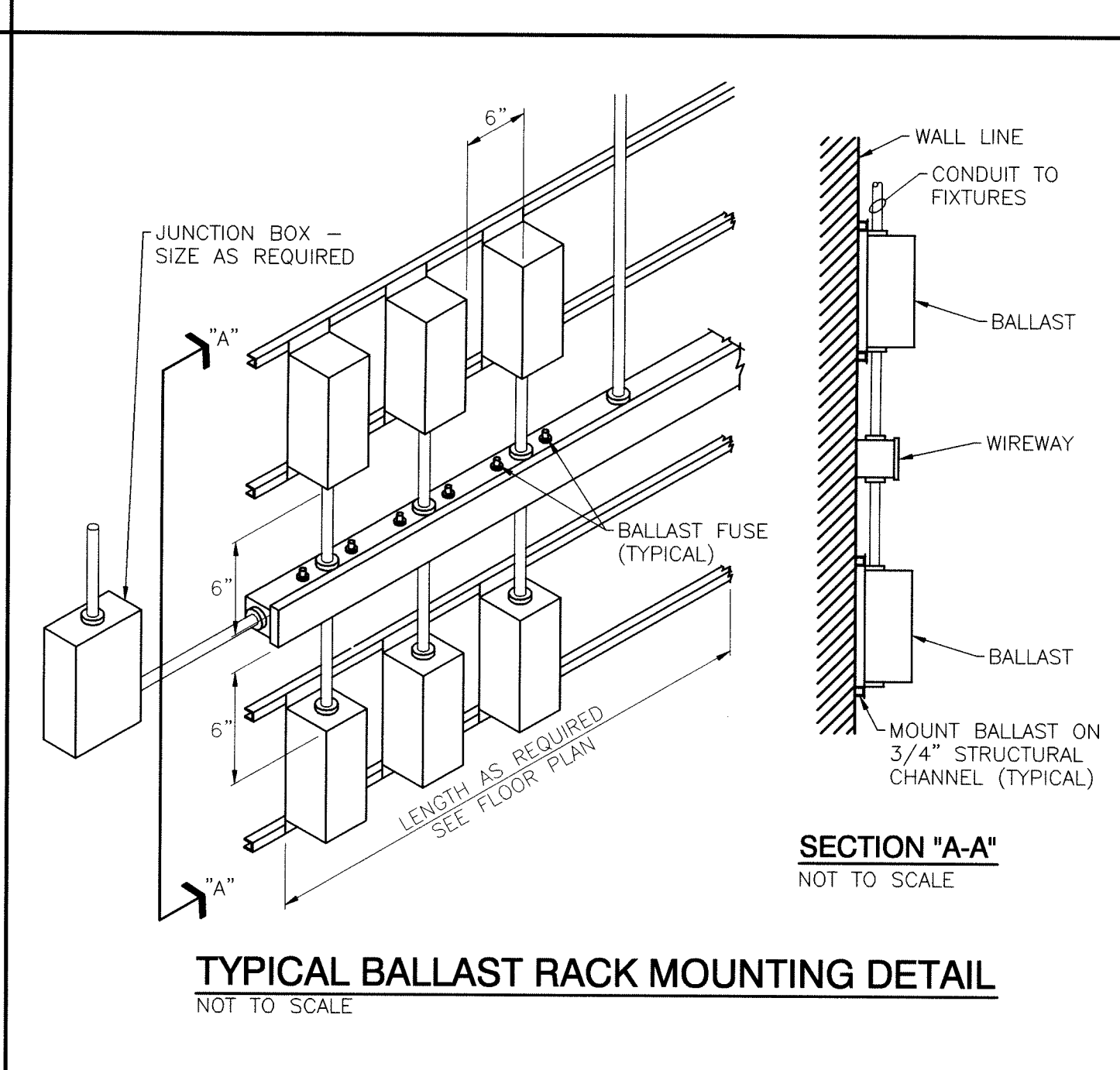
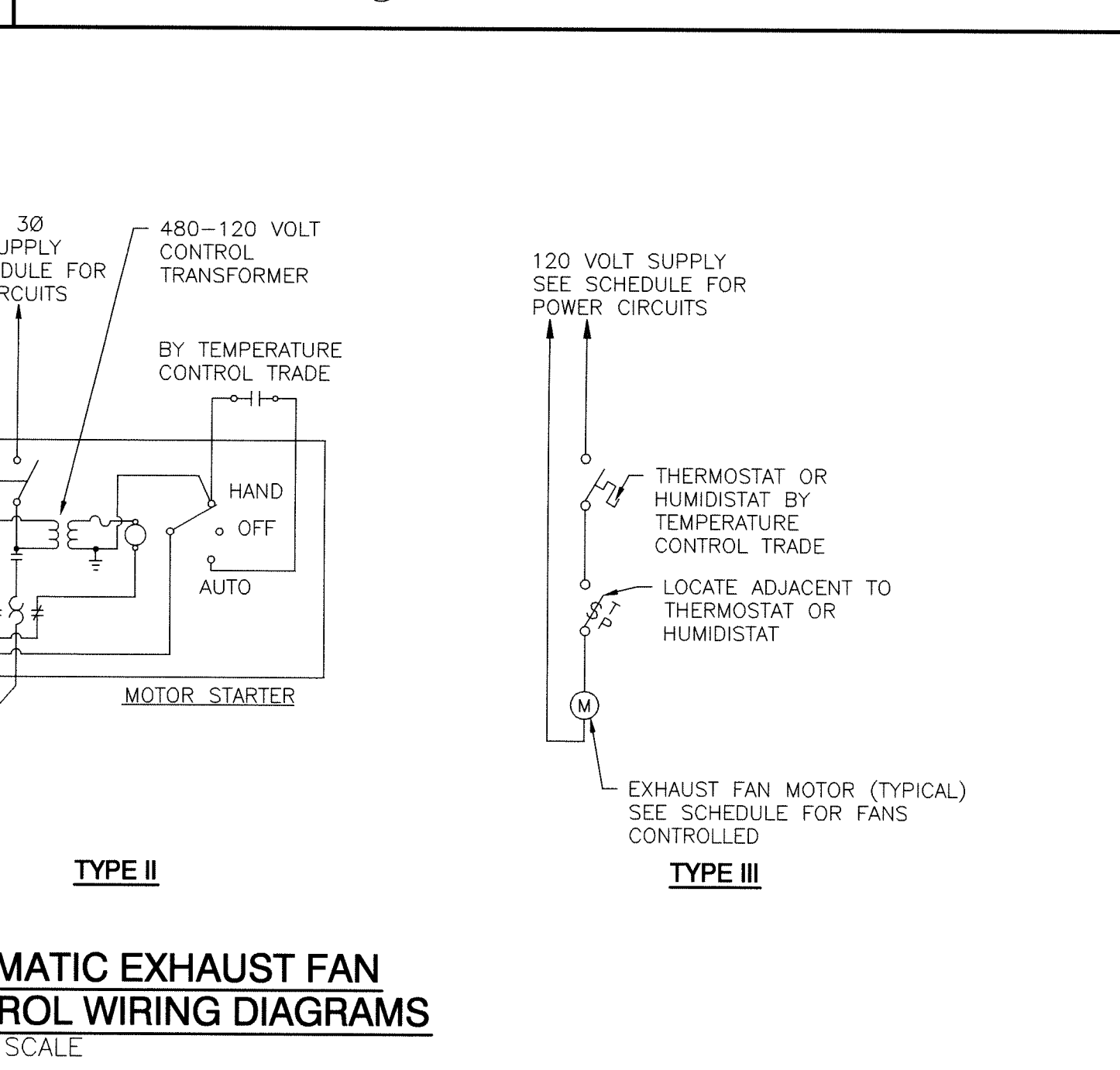
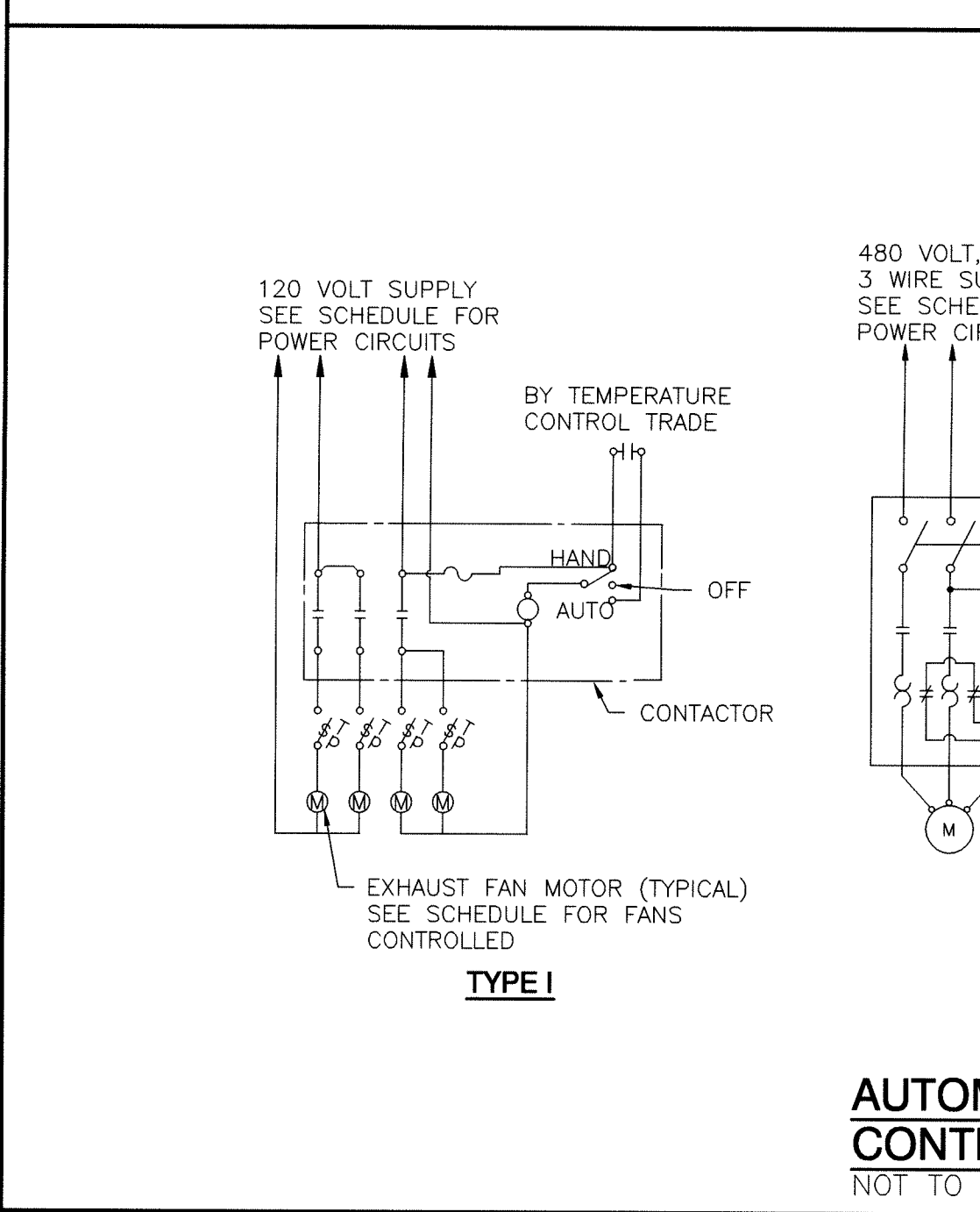
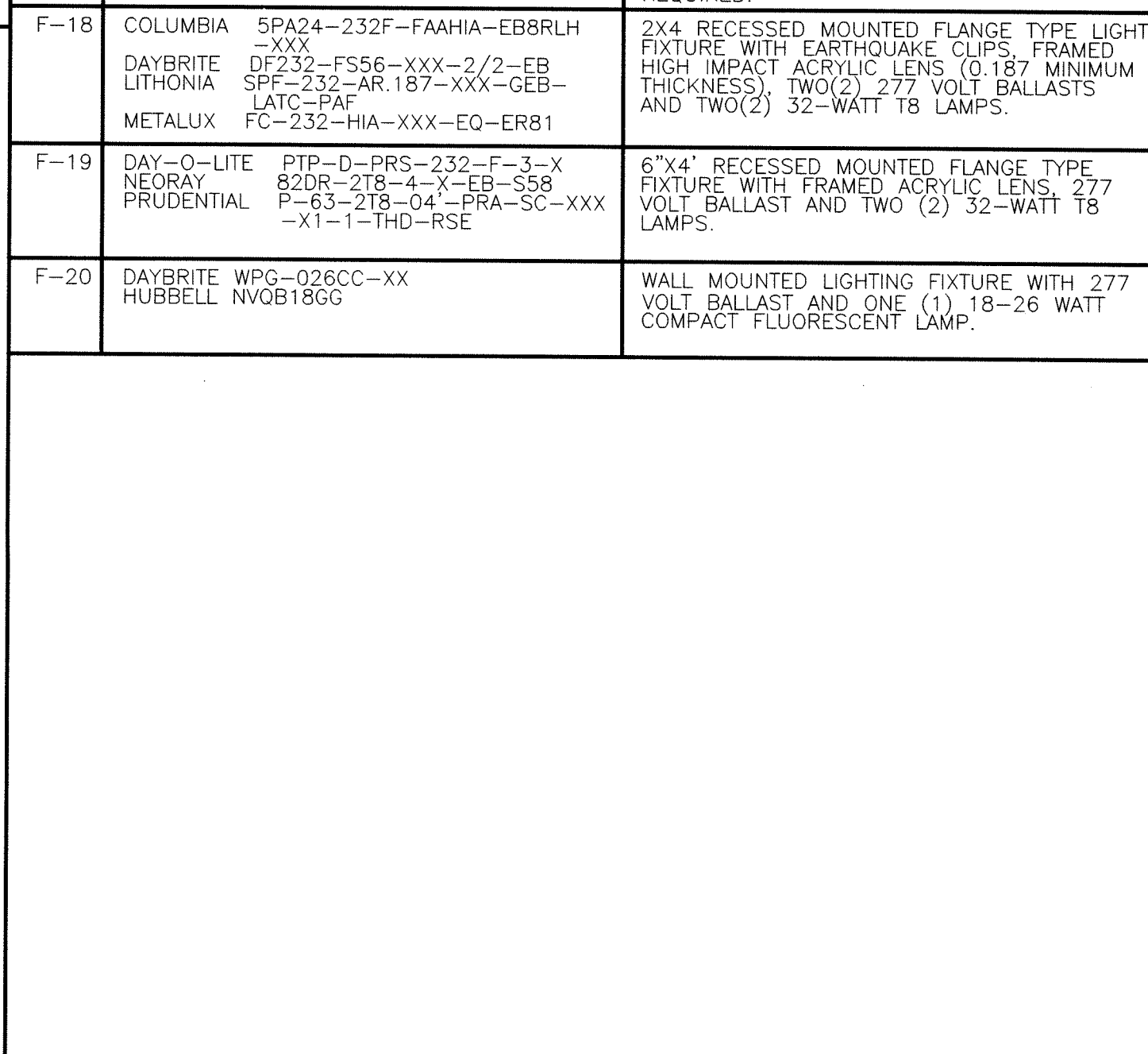
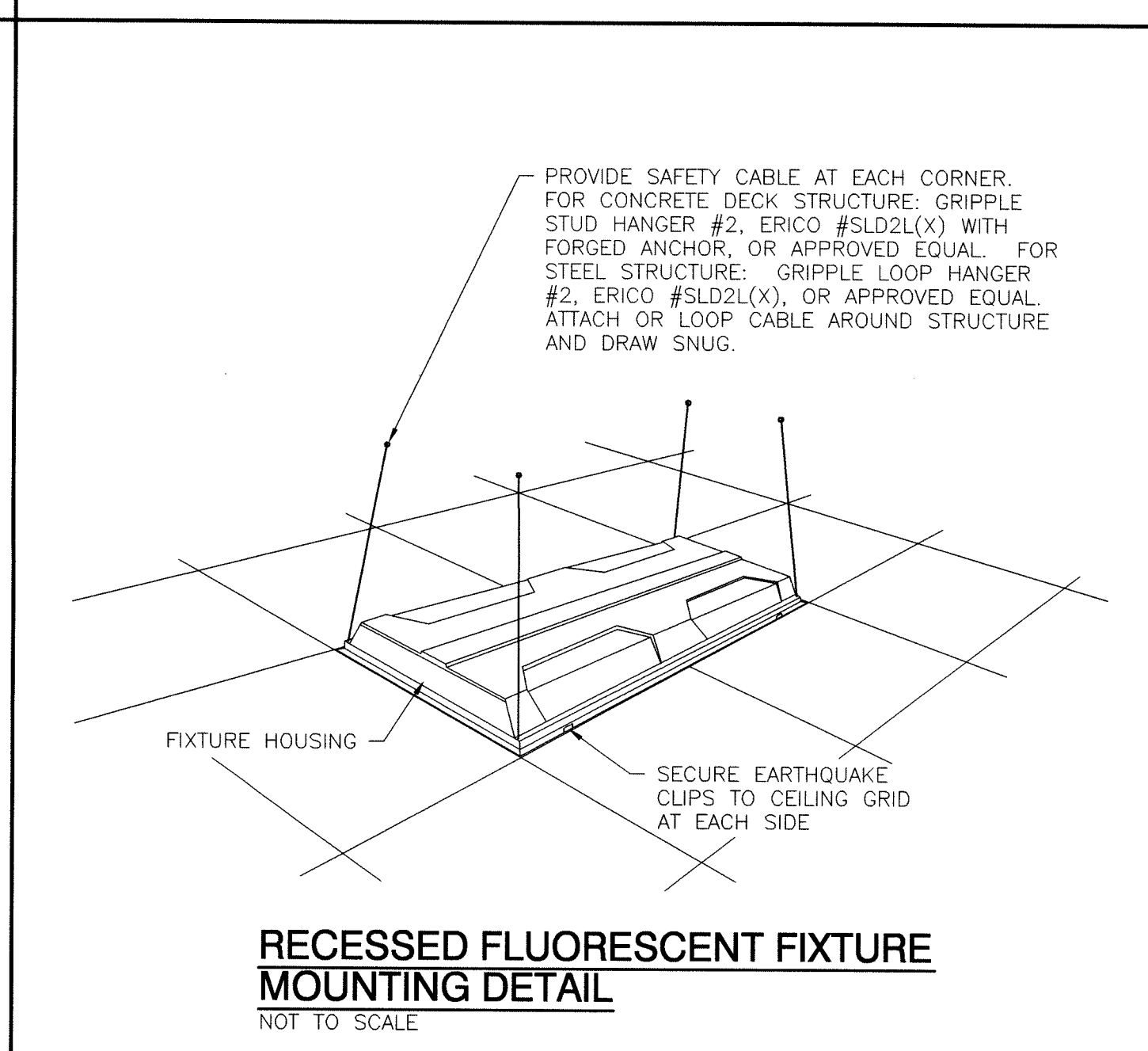
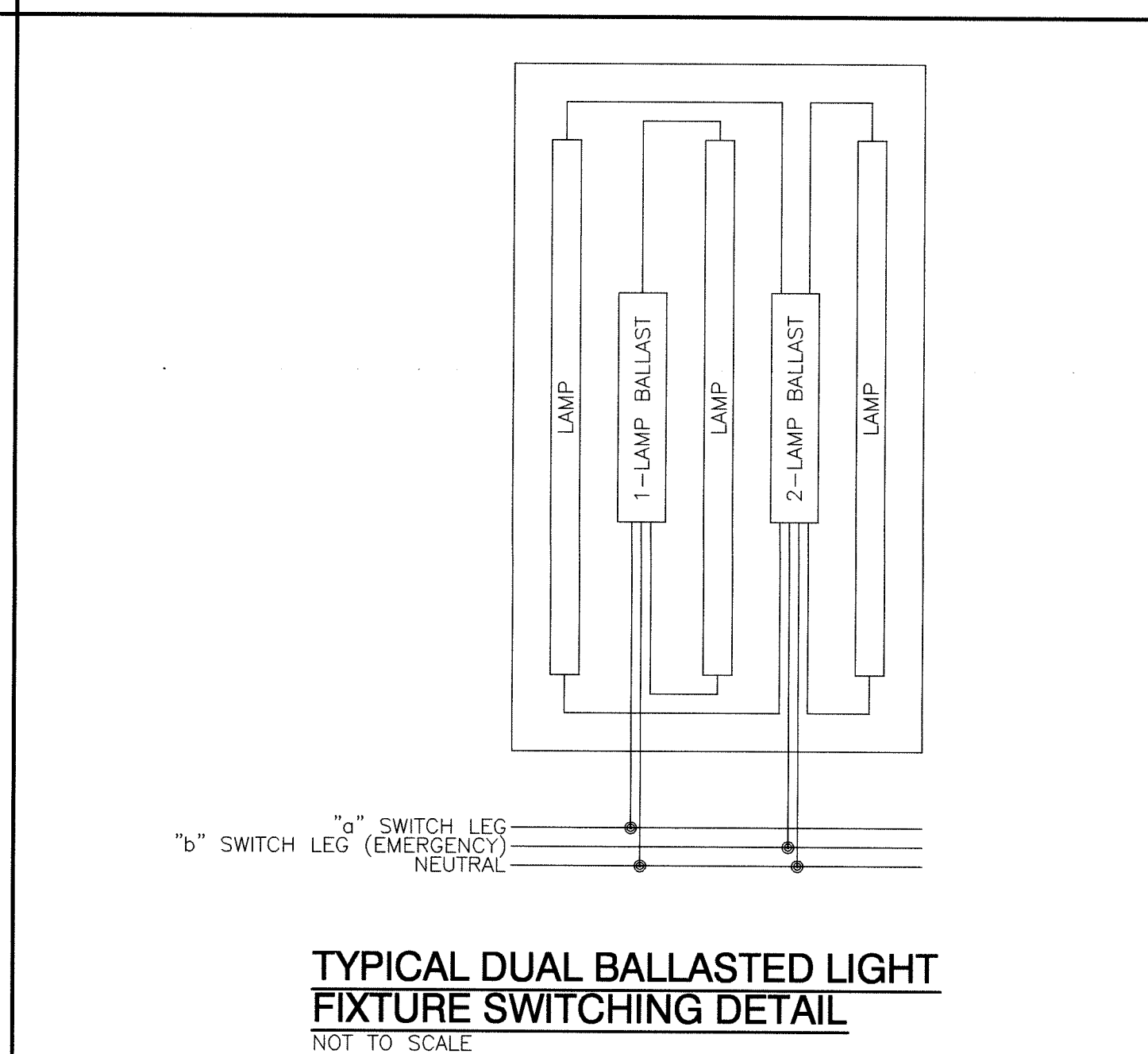
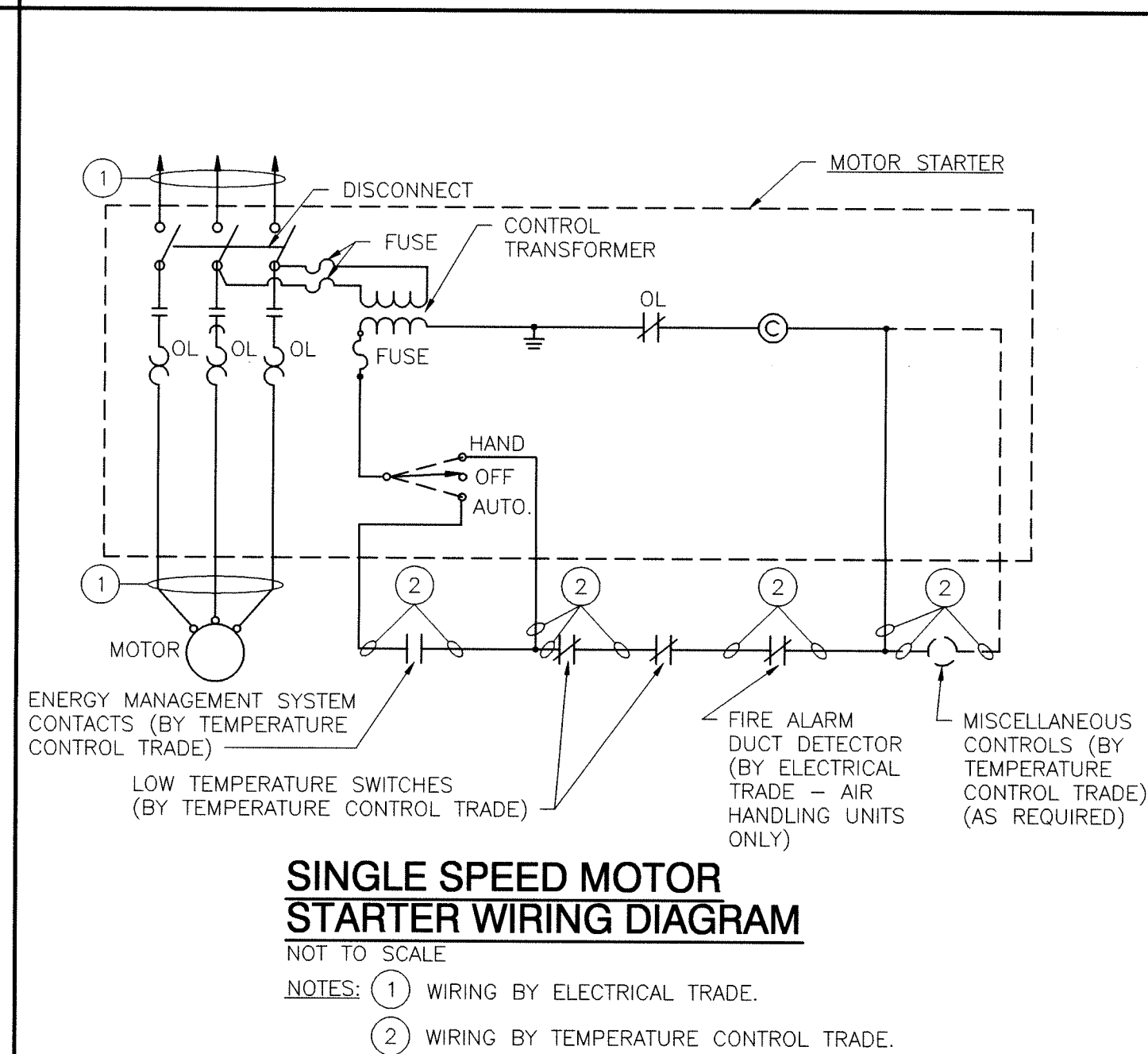
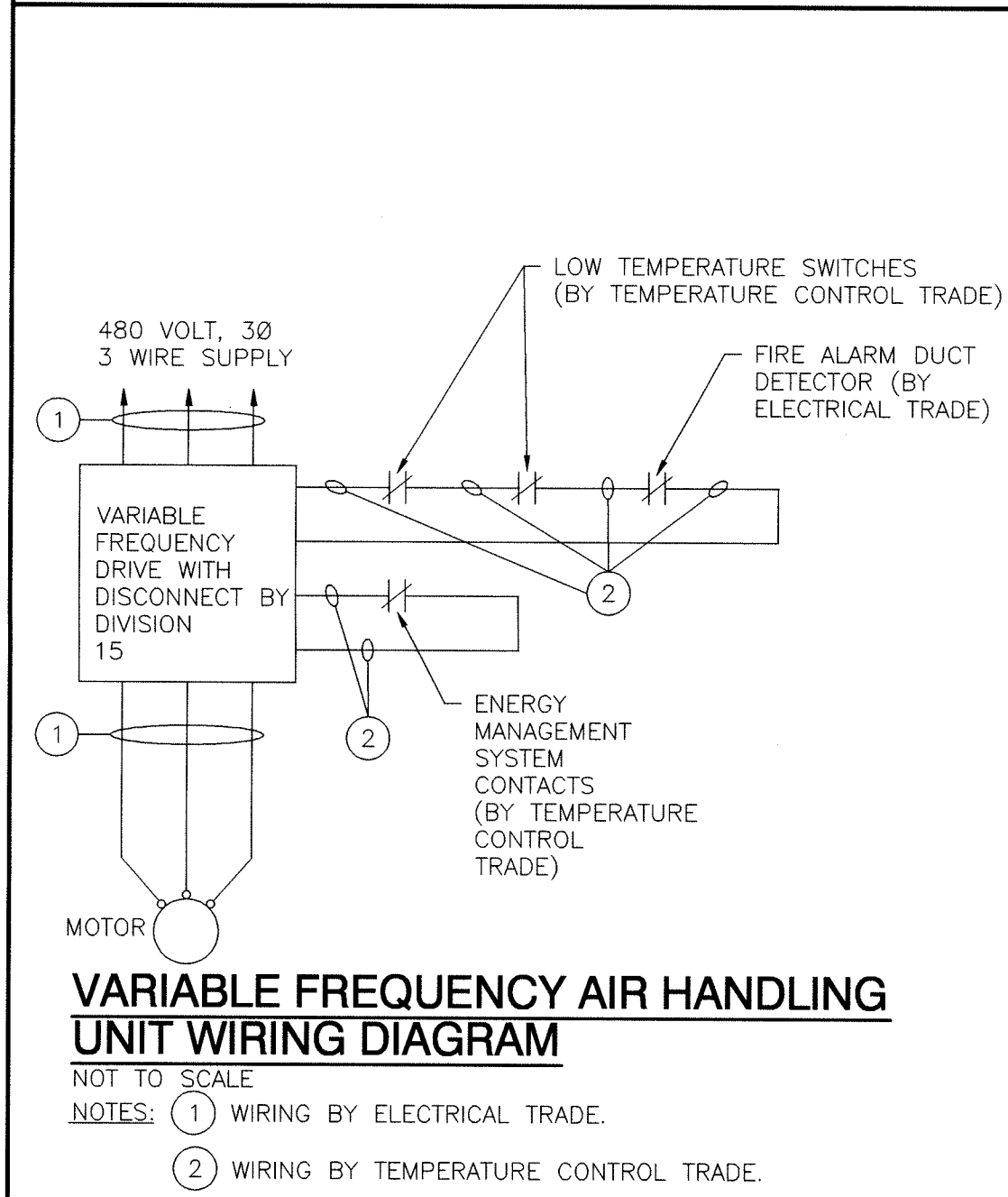
- PLAN NOTES:**
(THESE NOTES APPLY TO THIS SHEET ONLY)

- | | | | |
|----|---|----|---|
| 1 | NEW FIRE ALARM REMOTE ANNUNCIATOR PANEL. | 11 | FEEDEr CONDUITS ARE NOT TO BE ROUTED IN OR THROUGH THIS AREA. BRANCH CONDUITS NOT ASSOCIATED WITH THE ELECTRICAL DEVICES IN THIS AREA ARE NOT TO BE ROUTED IN OR THROUGH THIS AREA. FLEXIBLE CONDUIT OR RACEWAY IS NOT TO BE USED IN THIS AREA. THE BRANCH CONDUITS SERVING ELECTRICAL DEVICES IN THIS AREA ARE TO BE ROUTED UP TIGHT TO ROOF DECK OR TOP OF JOIST. EXPOSED CABLEING WITHOUT RACEWAY IS NOT PERMITTED IN THIS AREA. |
| 2 | EXISTING MAIN FIRE ALARM CONTROL PANEL. | | |
| 3 | EXISTING LAN DATA SYSTEM MDF EQUIPMENT CABINETS. | | |
| 4 | EXISTING SCHOOL PAGING SOUND SYSTEM MAIN EQUIPMENT CABINET. | | |
| 5 | EXISTING LAN DATA SYSTEM IDF-P EQUIPMENT CABINETS. | | |
| 6 | EXISTING LAN DATA SYSTEM IDF-N EQUIPMENT CABINET. | | |
| 7 | NEW LAN DATA SYSTEM IDF-S EQUIPMENT CABINET. | | |
| 8 | EXISTING PANEL "1L25". | | |
| 9 | EXISTING CABLE TRAY ABOVE CEILING. | | |
| 10 | NEW CABLE TRAY ABOVE CEILING. | | |



OVERALL ELECTRICAL FIRST FLOOR AUXILIARY PLAN
SCALE: 1/8" = 1'-0"





MOTOR STARTER SCHEDULE							
MARK	ITEM	NEMA SIZE	HP	ROOM NO.	CONTROL		SEE NOTES
					ENCL	REMOTE	
MSA-1	CIRCULATING PUMP CP-A1	0	3/4	373	SA	----	1,2,3,5,7,8
MSA-2	CIRCULATING PUMP CP-A2	0	3/4	314	SA	----	1,2,3,5,7,8
MSA-3	CIRCULATING PUMP CP-A3	0	1/2	374	SA	----	1,2,3,5,7,8
MSA-4	CIRCULATING PUMP CP-A4	0	3/4	376	SA	----	1,2,3,5,7,8
MSB-1	CIRCULATING PUMP CP-B1	0	1	377	SA	----	1,2,3,5,7,8
MSB-2	CIRCULATING PUMP CP-B2	0	1	378	SA	----	1,2,3,5,7,8
MSB-3	CIRCULATING PUMP CP-B3	0	3/4	377	SA	----	1,2,3,5,7,8
MSB-4	CIRCULATING PUMP CP-B4	0	3/4	378	SA	----	1,2,3,5,7,8
MSB-5	CIRCULATING PUMP CP-B5	0	3/4	345	SA	----	1,2,3,5,7,8
MSC-1	CIRCULATING PUMP CP-C1	0	1	363	SA	----	1,2,3,5,7,8
MSC-2	CIRCULATING PUMP CP-C2	0	1	363	SA	----	1,2,3,5,7,8
MSC-3	CIRCULATING PUMP CP-C3	0	1	363	SA	----	1,2,3,5,7,8
MSC-4	CIRCULATING PUMP CP-C4	0	1	363	SA	----	1,2,3,5,7,8
MSD-1	CIRCULATING PUMP CP-D1	0	3/4	370	SA	----	1,2,3,5,7,8

NOTES:

1. MOTOR STARTERS SHALL BE 3-POLE COMBINATION TYPE WITH NEMA 3 ENCLOSURE.
2. MOTOR STARTERS SHALL HAVE 480/120 VOLT CONTROL CIRCUIT TRANSFORMER WITH CONTROL CIRCUIT FUSES.
3. MOTOR STARTERS POG-HI-LO-OFF.
4. 120 VOLT MOMENTARY CONTACT PUSH BUTTON: P=ON-OFF; T=TEST BUTTON; T2=HI-LO-OFF.
5. 120 VOLT MAINTAINED CONTACT SELECTOR SWITCH: S=ON-OFF; S2=HI-LO-OFF; S2=HI-LO-OFF; S=ON-OFF; S=ON-OFF; S=ON-OFF.
6. PILOT LIGHTS SHALL BE FURNISHED WITH ALL REMOTE CONTROL UNITS.
7. MOTOR STARTERS SHALL HAVE SINGLE SPEED.
8. MOTOR STARTER SHALL HAVE ONE NORMALLY OPEN CONTACT.
9. PROVIDE WITH ENERGY SAVING MOTOR CONTROLLER.

INCANDESCENT/HID FIXTURE SCHEDULE		
TYPE	MANUFACTURER'S CATALOG NO.	DESCRIPTION
K-1	PORTFOLIO M7000ET-750-5500LI PRESCOLITE RH8062-175MHF-SF802L-OR	ROUND RECESSED MOUNTED DOWNLIGHT 1/2" DEEP W/4" RETECTOR, 277 VOLT BALLAST, EMERGENCY SOCKET WITH QUARTZ RESTRIKE ONE(1) 175-WATT METAL HALIDE BALLAST AND ONE(1) 100-WATT QUARTZ LAMP.
K-2	GARDCO 106-WT-175MH-XXX-SC LUMAR L-508-175-XXX-O-CBA SECURITY LIGHTING BW013-175 MH-XXX -CBA LITHONIA W5R-175M-OD-XXX-CBA	OUTDOOR WATERPROOF WALL MOUNT CUTOFF TYPE LIGHT FIXTURE DIE CAST HOUSING AND DOUBLE 277VOLT BALLAST AN ONE(1) 175-WATT METAL HALIDE LAMP AND ONE(1) DOWNLIGHT CUTOFF TYPE (COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT).
K-3	EMERGI-LITE LEDP-1R-XXX-EI DUAL-LITE SESR9N SURE-LITE OX812R LITHONIA LES-1R-120/277	277 VOLT SURFACE MOUNTED DIE CAST ALUMINUM EXIT SIGN WITH SINGLE RED FENCIL FACE (ANALYST INDICATED ON DRAWINGS) AND LED LAMPS.
K-4	EMERGI-LITE LEDP-2R-XXX-EI DUAL-LITE SESR9N SURE-LITE OX812R LITHONIA LES-2R-120/277	277 VOLT SURFACE MOUNTED DIE CAST ALUMINUM EXIT SIGN WITH DOUBBLE RED FENCIL FACE (ANALYST INDICATED ON DRAWINGS) AND LED LAMPS.
K-5	HOLOPHANE PRSL-400MH-27PD31 W21TSB-08214-5-5-POWER HOOK	PENDANT MOUNTED INDUSTRIAL METAL HALIDE LAMP WITH 277VOLT BALLAST AND PENDANT, WIRE GUARD, POWER HOOK AND 277VOLT ENCAPSULATED BALLAST AND ONE(1) 400 WATT METAL HALIDE LAMP.
K-6	SPI SFB-580S-277-WH- LAW K1E-175-1R-16"-TSWG-XXX LITE ENERGY LED P-25158-1000MH-XXX-W	PENDANT MOUNTED INDIRECT FIXTURE, SPUN ALUMINUM REFLECTOR, (1) ONE 100 WATT METAL HALIDE LAMP AND 277 VOLT ENCAPSULATED REMOTE BALLAST.
K-7	DAYBrite WLM-200INC-VSWLL-TP LITHONIA TWE001-175-XXX-SC	MOUNTED WATERPROOF-100WATT FLUORESCENT LIGHT

	LUMARK	INWL-200INC-LEXAN SHIELD-TP	
K-8	— — —		WHITE TRACK MOUNTED INCANDESCENT LIGHT FIXTURE WITH ONE(1) 150 WATT PAR 38 INCANDESCENT LAMP MEDIUM BASE QUARTZ FLOOD LAMP.
K-9	— — —		WHITE TRACK MOUNTED INCANDESCENT LIGHT FIXTURE WITH ONE(1) 150 WATT PAR 38 INCANDESCENT LAMP MEDIUM BASE QUARTZ FLOOD LAMP.
K-10	EMCO ERP-20-1-0H-250MM-VXX-SC LITHONIA KOR-250M-RSS-XX-CBA-RPF McGraw CS52153X-CBA		POLE TOP MOUNTED METAL HALIDE TYPE LIGHT FIXTURE WITH TYPE "L" LIGHT DISTRIBUTION ONE(1) 250 WATT METAL HALIDE LAMP MOUNTED ON A 6" ROUND TAPERED STEEL POLE (COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT)

EMERGENCY LIGHTING CIRCUIT

ROOM LIGHT SWITCH

NORMAL LIGHTING CIRCUIT

H
N

H
N

H
N

N.C.
N.O.
N.C.

H
N

TO LIGHT FIXTURE BALLAST

BODINE #GTD GENERATOR TRANSFER DEVICE - INSTALL DEVICE WITHIN BALLAST COMPARTMENT OF LIGHTING FIXTURE.

FLOUORESCENT FIXTURE SCHEDULE		
TYPE	MANUFACTURER'S CATALOG NO.	DESCRIPTION
F-1	CUSTOM SURFACE MOUNTED LIGHTING FIXTURE IN COMMONS AREA	INCLUDE ALL LABOR AND MATERIAL TO INSTALL CUSTOM WALL MOUNTED LIGHTING. FIXTURES IN ADDITION, PROVIDED \$1000.00 TO PURCHASE EACH CUSTOM PENDANT MOUNTED LIGHTING FIXTURE TO BE SELECTED BY THE ARCHITECT.
F-2	DAYBRITE LITHONIA METALLUX P424-430G-148-EBRBLH-XXX 2P30543Z-46S1-XXX-1/2-EB- GEB LATIC-PA-432-48-XXX-ER- 2EP30543Z-48S1-XXX-ER-EB2	2X4 RECESSED MOUNTED GRID TYPE LIGHT FIXTURE WITH EARTHQUAKE GUIDS, DEEP CELL PARABOLIC LOUVERS (18 CELLS-MINIMUM 3" DEEP), TWO (2) 277 VOLT BALLAST AND TWO (4) 32-WATT T8 LAMPS.
F-3	DAYBRITE LITHONIA METALLUX P424-201D36-EBRBLH-XXX 2P30533Z-32S1-XXX-1/2-EB- 2PM3-66-XXX-32-180D-XXX-GEB LATIC-PA-432-48-XXX-ER- 2EP30533Z-32S1-XXX-ER-EB2	2X4 RECESSED MOUNTED GRID TYPE LIGHT FIXTURE WITH EARTHQUAKE GUIDS, DEEP CELL PARABOLIC LOUVERS (18 CELLS-MINIMUM 3" DEEP), TWO (2) 277 VOLT BALLAST AND TWO (2) 32-WATT T8 LAMPS.
F-4	DAYBRITE LITHONIA METALLUX P414-232-EBRBLH-XXXGFW 2P30533Z-32S1-XXX-1/2-EB-173 AF10-232-XXX-EBR-XXGFW DIM-232-216-XXX-GER-ATC WG/DI-4FT-10	1'X4' CHAIN PENDANT MOUNTED INDUSTRIAL TYPE LIGHT FIXTURE WITH WIRE GUARD, TWO (2) VOLT BALLAST AND TWO (2) 32-WATT T8 LAMPS.
F-5	DAYBRITE LITHONIA LIT-1416-232-XXX-1/2-EB- GEB SRT-F-232-FW-AR187-XXX- GEB	1X4 RECESSED MOUNTED FLANGE TYPE LIGHT FIXTURE SEALED, GASKETED AND UL LABELED FOR WET LOCATION WITH WIRE GUARD, TWO (2) IMPACT ACRYLIC LENSES (0.187 MINIMUM THICKNESS), TWO (2) 277 VOLT BALLAST AND TWO (2) 32-WATT T8 LAMPS.
F-6	DAYBRITE LITHONIA LIT-1416-232-XXX-1/2-EB- GEB SRT-F-232-FW-AR187-XXX- GEB	1X4 RECESSED MOUNTED FLANGE TYPE LIGHT FIXTURE WITH EARTHQUAKE GUIDS, FRAMED HIGH IMPACT ACRYLIC LENSES (0.150 MINIMUM THICKNESS), TWO (2) 277 VOLT BALLAST AND TWO (2) 32-WATT T8 LAMPS.

	METALUX PAF C23C-219/156-XXX-EO-ER81	78 TALPS.
F-7	COLUMBIA 5P41A-1232-FA16A-EBRHL-XXX DAYRITE 1D632C-F556-XXX-1/2-EB- LATHA SPG-232-AR-187-XXX-GBE- LATHA METALUX 20C-232-FA16A-XXX-EO-ER81	1/4 RECESSED MOUNTED GRID TYPE LIGHT FIXTURE WITH EARTHQUAKE CLIPS, FRAMED ACRYLIC LENS (0.150 MINIMUM THICKNESS), 27V BALLAST AND TWO (2) 32-WATT T8 LAMPS.
F-8	ALCO C247A-78-ELB-XXX CD LIGHTING 4-23-23-XXX-EBH-18CP -15P KENALL WDU4-2-23-25B-1-XXX-4/4-2	4" WALL MOUNTED DOWN ONLY FLORESCENT LIGHT FIXTURE WITH STAINLESS STEEL BALLAST AND TWO (2) 32-WATT T8 BALLAST AND TWO (2) 32-WATT T8 LAMPS. MOUNT 9-0 4" WALL FINISHED
F-9	DAYRITE 15M232-AR-156-XXX-1/2-EB- LATHA M232-AR-F556-XXX-PAF-GBE10RS M232-FA16A-XXX-EO-ER81	1/4 PENDANT MOUNTED TYPE LIGHT FIXTURE WITH FRAMED HIGH IMPACT ACRYLIC LENS (0.1875" MINIMUM THICKNESS), 27V T8 BALLAST AND TWO (2) 32 WATT T8 LAMPS.
F-10	OMEGA 582HB260-TH262PDL-C- LATHA OMEGA AF2-2621-BAF-XXX PRESCOLITE CFR626BZ-57A26A-B24	RECESSED MOUNTED FLORESCENT TYPE LIGHT FIXTURE WITH 4" WALL FINISHED 27V BALLAST AND TWO (2) 4-PIN 26-WATT COMPACT FLORESCENT LAMPS.
F-11	COLUMBIA 5P41A-1232-FA16A-156-S- XXX DAYRITE 1D632C-F539-FA11-1/2-EB- LATHA SPG-232-AR-187-XXX-GBE- LATHA METALUX C23-219/156-XXX-EO-ER81	1/4 RECESSED MOUNTED GRID TYPE LIGHT FIXTURE WITH EARTHQUAKE CLIPS, FRAMED ACRYLIC LENS (0.150 MINIMUM THICKNESS), 27V BALLAST AND TWO (2) 32-WATT T8 LAMPS.
F-12	COLUMBIA 5P42A-432G-FA16A-156-S- XXX DAYRITE 1D632C-F539-FA11-1/2-EB- LATHA SPG-232-AR-187-XXX-GBE- LATHA METALUX 20C432-419/156-XXX-EO-EB82	2/4 RECESSED MOUNTED GRID TYPE LIGHT FIXTURE WITH EARTHQUAKE CLIPS, FRAMED ACRYLIC LENS (0.150 MINIMUM THICKNESS), TWO (2) 32W T8 BALLASTS AND FOUR (4) 32-WATT T8 LAMPS.
F-13	COLUMBIA 5P42A-432G-FA16A-156-S- XXX DAYRITE 1D632C-F539-FA11-1/2-EB- LATHA SPG-232-AR-187-XXX-GBE- LATHA METALUX 20C432-419/156-XXX-EO-EB82	2/4 RECESSED MOUNTED GRID TYPE LIGHT FIXTURE WITH EARTHQUAKE CLIPS, FRAMED ACRYLIC LENS (0.150 MINIMUM THICKNESS), TWO (2) 32 WATT BALLASTS AND THREE (3) 32-WATT T8 LAMPS.

F-14	METALUX C26C32-19/F156---XX-EB-ER82	5PA24-232G-FAA19-156-S- XX-EB-ER82 DAYRITE 25P2-232-A19---XX-EB-LATC- PAF METALUX 26C32-19/F156---XXX-EB-ER82	2X4 RECESSED MOUNTED GRID TYPE LIGHT FIXTURE WITH EARTHQUAKE SHOCK FRAME ACRYLIC LENS (0.150 MINIMUM THICKNESS), (1) 27V WALL BALLAST AND TWO (2) 32-WATT T8 LAMPS.
F-15	ALCO 2248-178-ELB-XXX METALUX VERSA-TECH VMB-5124-U/D-ELB-OC-XXX	4" WALL MOUNTED UP/DOWN FLUORESCENT LIGHT FIXTURE WITH 27V WALL BALLAST AND (2) 32-WATT T8 LAMPS. MOUNT 8'-0" ABOVE FINISH FLOOR.	
F-16	KIRLIN FSR12050-38-87	PENDANT MOUNTED CYLINDER TYPE FIXTURE WITH ONE (1) 27V WALL BALLAST, TWO (2) 57 WATT 4-PIN COMPACT FLUORESCENT LAMPS. FIXTURE FINISH TO BE BLACK ACRYLIC. PROVIDE PENDANT LENGTHS AS REQUIRED.	
F-17	KIRLIN FSR12051-38-87	PENDANT MOUNTED CYLINDER TYPE FIXTURE WITH ONE (1) 27V WALL BALLAST, THREE (3) 57 WATT 4-PIN COMPACT FLUORESCENT LAMPS. FIXTURE FINISH TO BE BLACK ACRYLIC. PROVIDE PENDANT LENGTHS AS REQUIRED.	
F-18	COLUMBIA 5PA24-232F-FAAHIA-EBBRLH XX-XX DAYRITE DF232-F566---XX2-/2-EB- ER82 LITHONIA P2-232-AR-178-XX-EB- LATC-PAF METALUX PC-232-19/F156---XXX-EO-ER81	2X4 RECESSED MOUNTED FLANGE TYPE LIGHT FIXTURE WITH EARTHQUAKE SHOCK FRAME HIGH IMPACT ACRYLIC LENS (0.187 MINIMUM THICKNESS), (1) 27V WALL BALLAST AND TWO(2) 32-WATT T8 LAMPS.	
F-19	DAY-O-LITE NORAY PRUDENTIAL	6"x4" RECESSED MOUNTED FLANGE TYPE FIXTURE WITH FRAMED ACRYLIC LENS, 27V WALL BALLAST AND TWO (2) 32-WATT T8 LAMPS.	
F-20	DAYRITE HUBBELL	WALL MOUNTED LIGHTING FIXTURE WITH 27V WALL BALLAST AND TWO (2) 18-26 WATT COMPACT FLUORESCENT LAMP.	

[illegible][illegible]



NOTES:	1. FURNISH NEMA 1 ENCLOSURE WITH HINGED COVER UNLESS OTHERWISE NOTED.
	2. ELECTRICALLY HEATED.
	3. MECHANICALLY HEATED.
	4. CONTACTS - NORMALLY OPEN.
	5. CONTACTS - NORMALLY CLOSED.
	6. PROVIDE HAND-ON-AUTOMATIC SELECTOR SWITCH IN RELAY ENCLOSURES WITH LOOP AND BRIDLE STRAP FROM MAIN COMPARTMENT TO HINGED COVER FOR SELECTOR SWITCH.
	7. PROVIDE ON-OFF SELECTOR SWITCH IN RELAY ENCLOSURE WITH LOOP AND BRIDLE STRAP FROM MAIN COMPARTMENT TO HINGED COVER FOR SELECTOR SWITCHES.
	8. 115 VOLT COIL.
	9. 277 VOLT COIL.
	10. MOTOR/RELAYS CONTROLLED.
	11. FURNISH FUSE PROTECTION FOR COIL CIRCUIT.
	12. ACCESSORY - TWO WIRE CONTROL.
	13. ALL RELAYS AND SELECTOR SWITCHES SHALL BE PREWIRED BY MANUFACTURER.
	14. PROVIDE RELAYS IN RELAY CABINET "LOCALLY".


- ① FLUSH MOUNTED FLOOR OUTLET BOX WITH FLANGED ACTIVATION KIT.
MOUNT FLUSH WITH FLOOR.
- ② DUPLEX POWER RECEPTACLE COMPARTMENT.
- ③ WIRING COMPARTMENT FOR FUTURE DATA.
- ④ ONE (1) 1" C RMC STUBBED TO NEAREST CABLE TRAY.



NOTE: 1. SEE THIS SHEET FOR FLOOR OUTLET DETAILS.

- ① FLUSH MOUNTED FLOOR OUTLET BOX WITH HEAVY DUTY CAST LID. MOUNT FLUSH WITH FLOOR. WIREMOLD #RFB191CTC9Y OR APPROVED EQUAL.
- ② PROVIDE DUPLEX POWER RECEPTACLE IN THIS COMPARTMENT.
- ③ BLANK OFF THIS COMPARTMENT.
- ④ POWER CIRCUIT CONDUIT AND WIRING.
- ⑤ ONE THIS SIDE, PROVIDE SCOREBOARD CONTROL CONNECTORS, TWO (2) DATA JACKS, AND ONE SOUND SYSTEM AUDIO INTERFACE PANEL. BLANK OFF REMAINING OPENINGS.
- ⑥ PROVIDE ONE 1" FROM SIX-GANG SIDE OF BOX TO ROOM SOUND SYSTEM MAIN EQUIPMENT FOR SOUND CABLING.
- ⑦ PROVIDE ONE 1" FROM SIX-GANG SIDE OF BOX TO NEAREST CORRIDOR CABLE TRAY FOR FUTURE DATA CABLING.
- ⑧ PROVIDE TWO 1" FROM SIX-GANG SIDE OF BOX FOR ROOM SCOREBOARD SYSTEM CABLES. SEE SYSTEM DETAILS FOR ADDITIONAL INFORMATION.
- ⑨ PROVIDE ONE 1" FROM SIX-GANG SIDE OF BOX FOR TELEVISION OUTLET CABLING (TYPE "B1" FLOOR BOX ONLY). SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.



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DATE 03/19/07	
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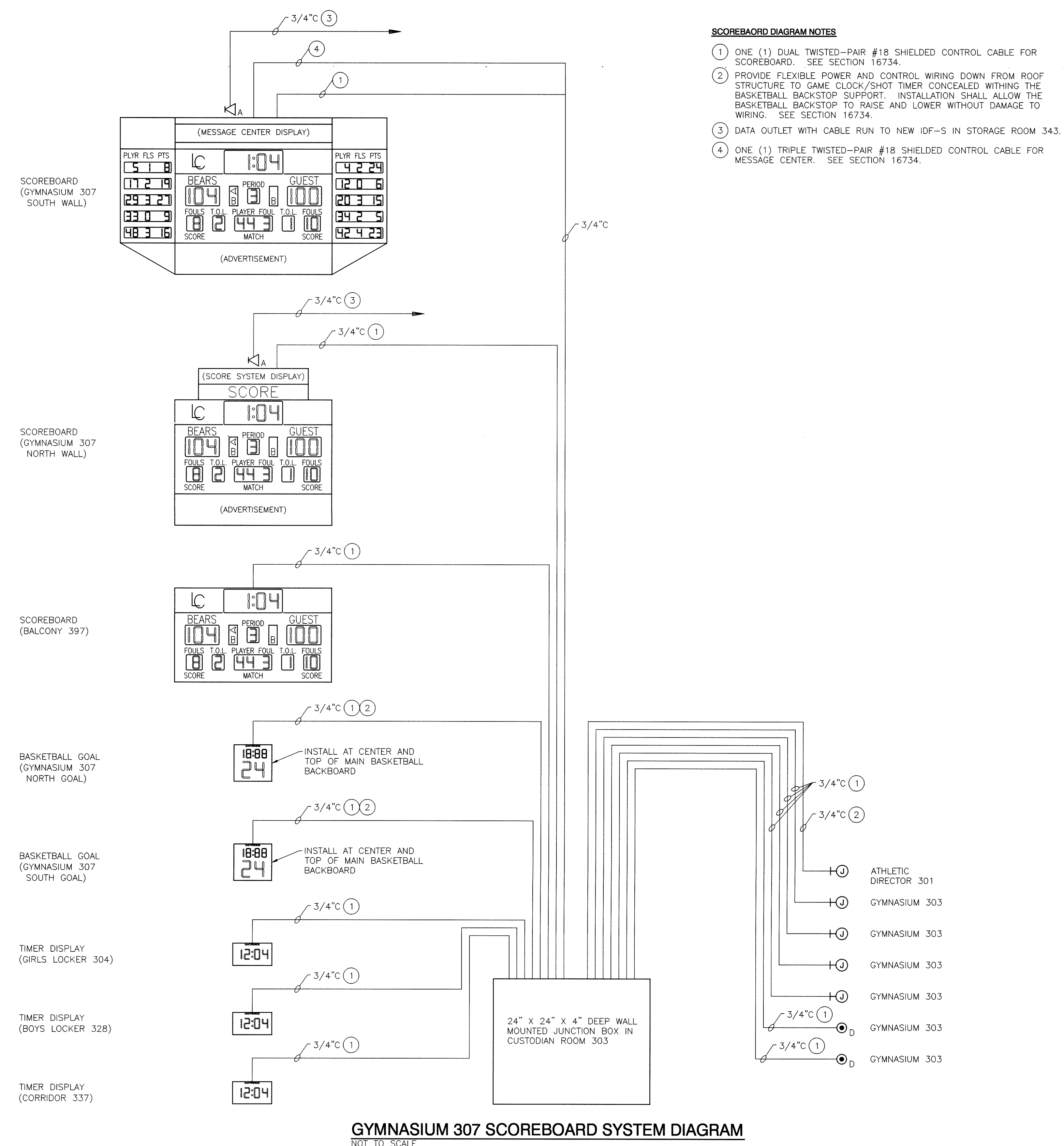
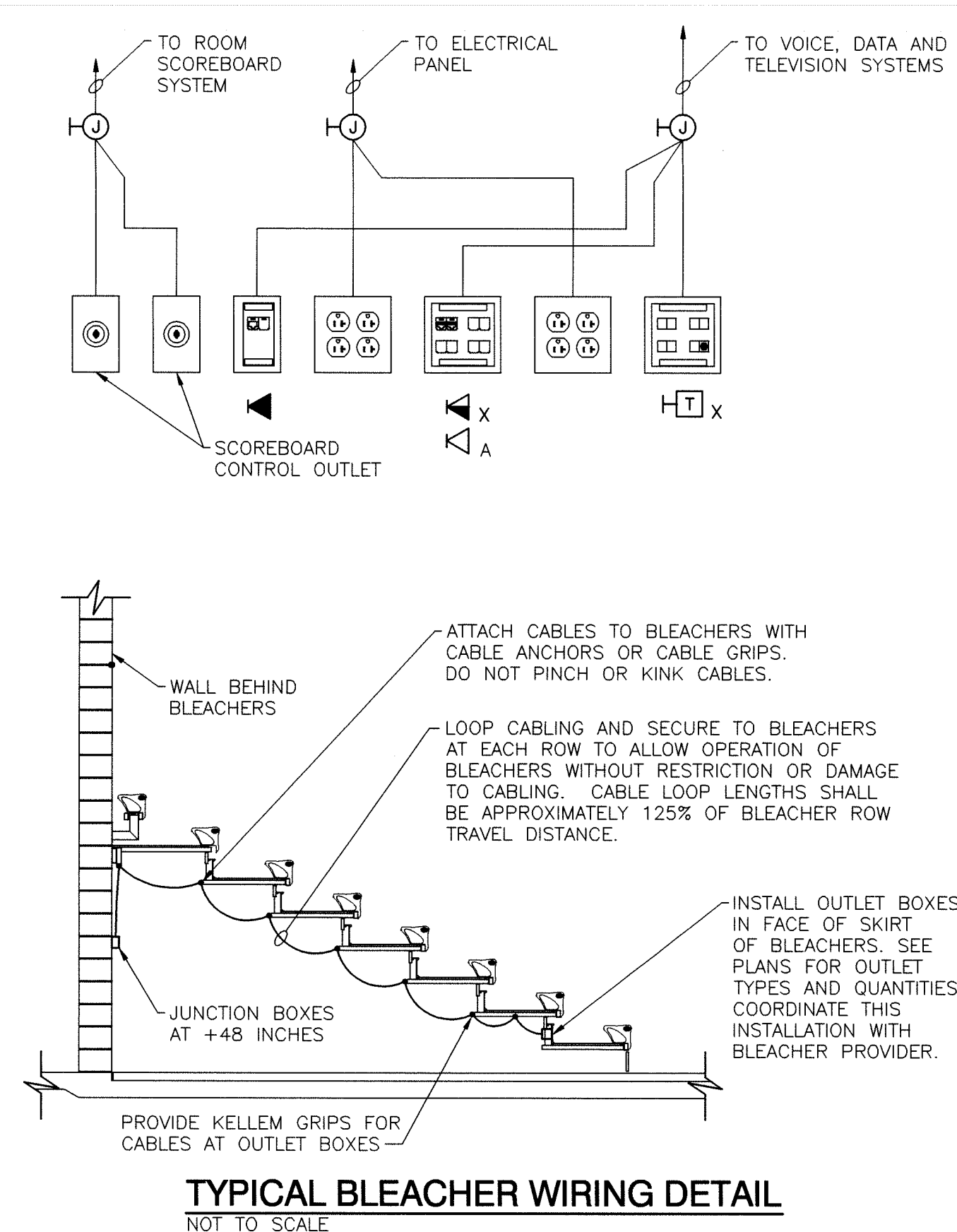
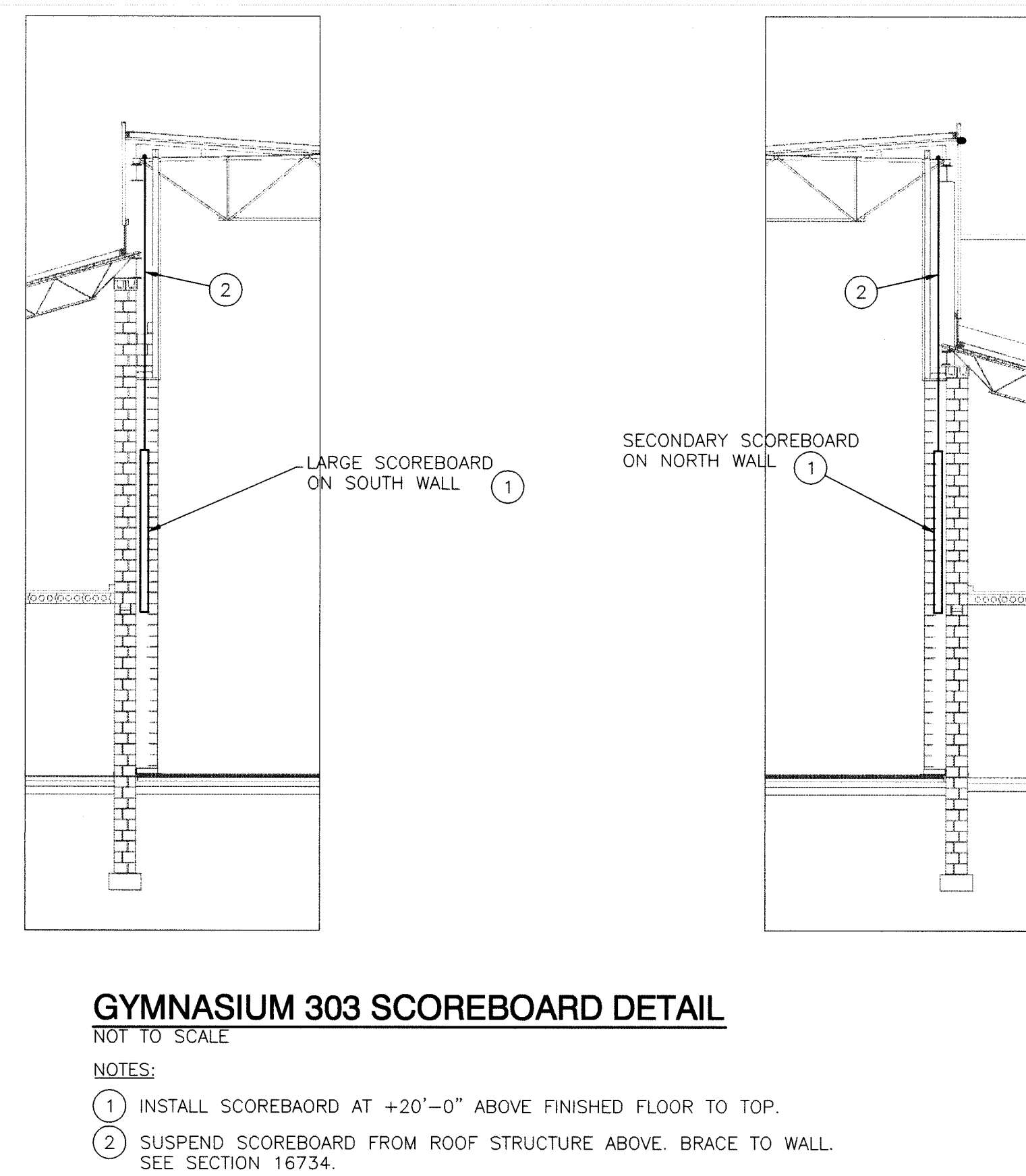
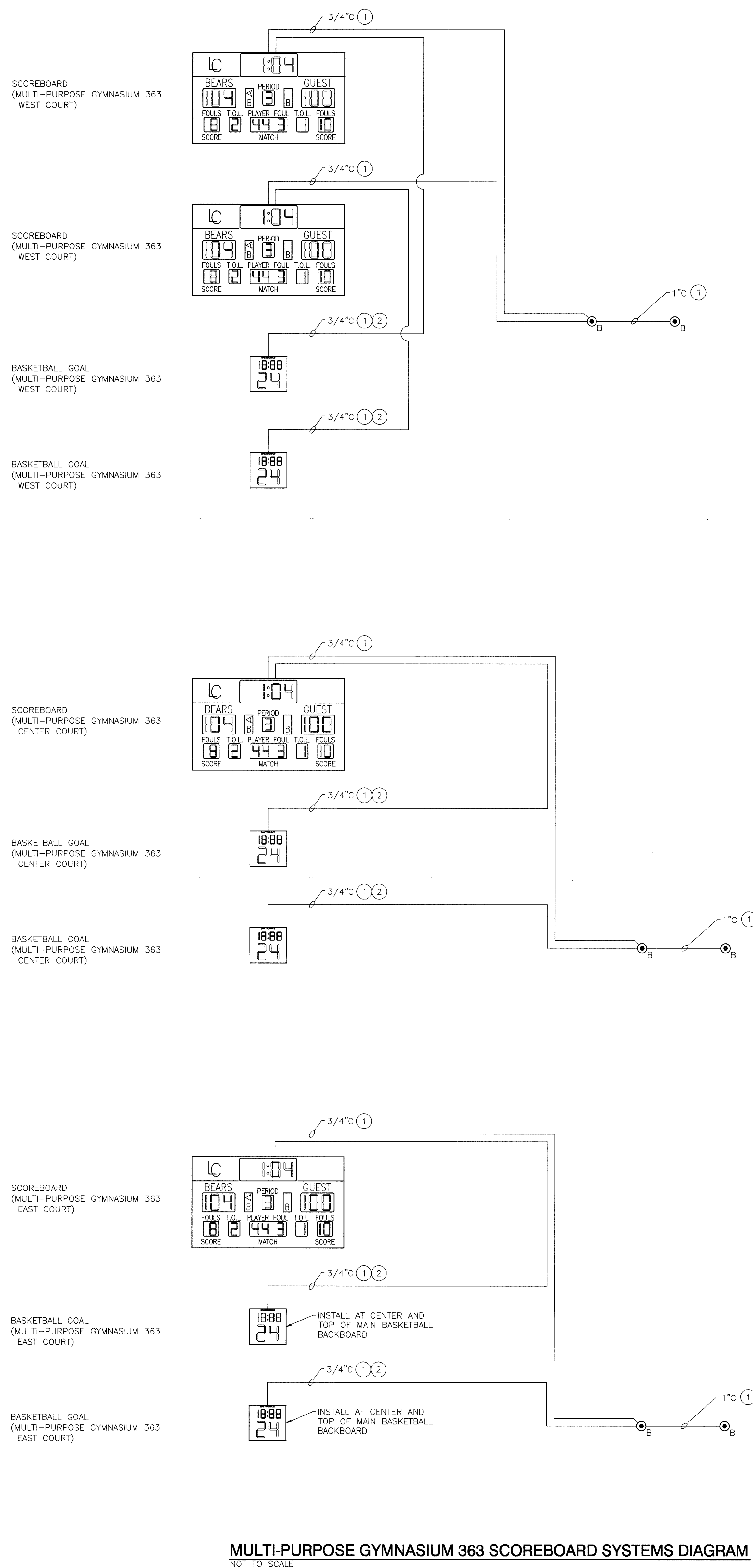
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[illegible]DRAWING
ELECTRICAL SCHEDULES
AND DETAILS

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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E-602



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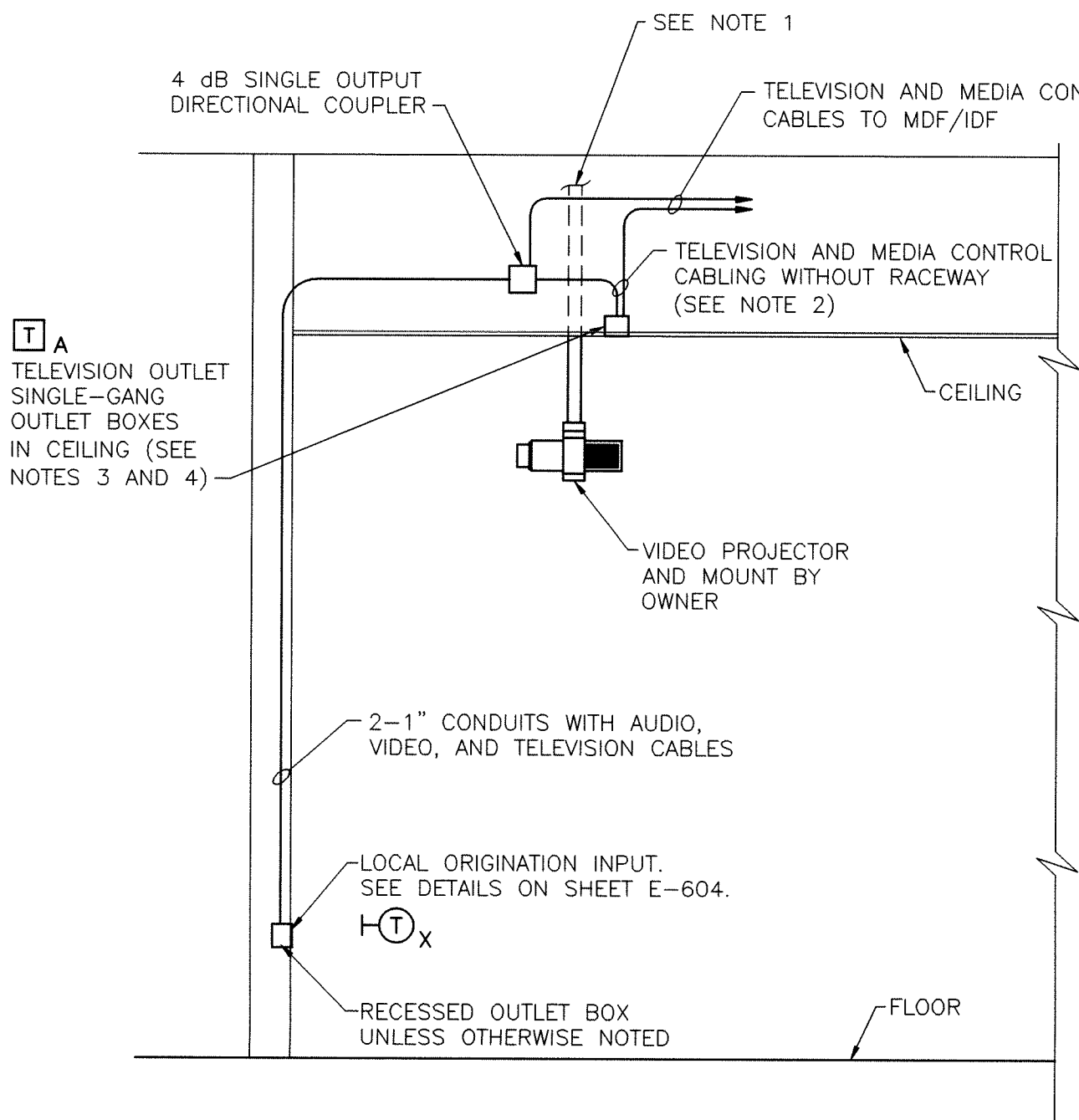
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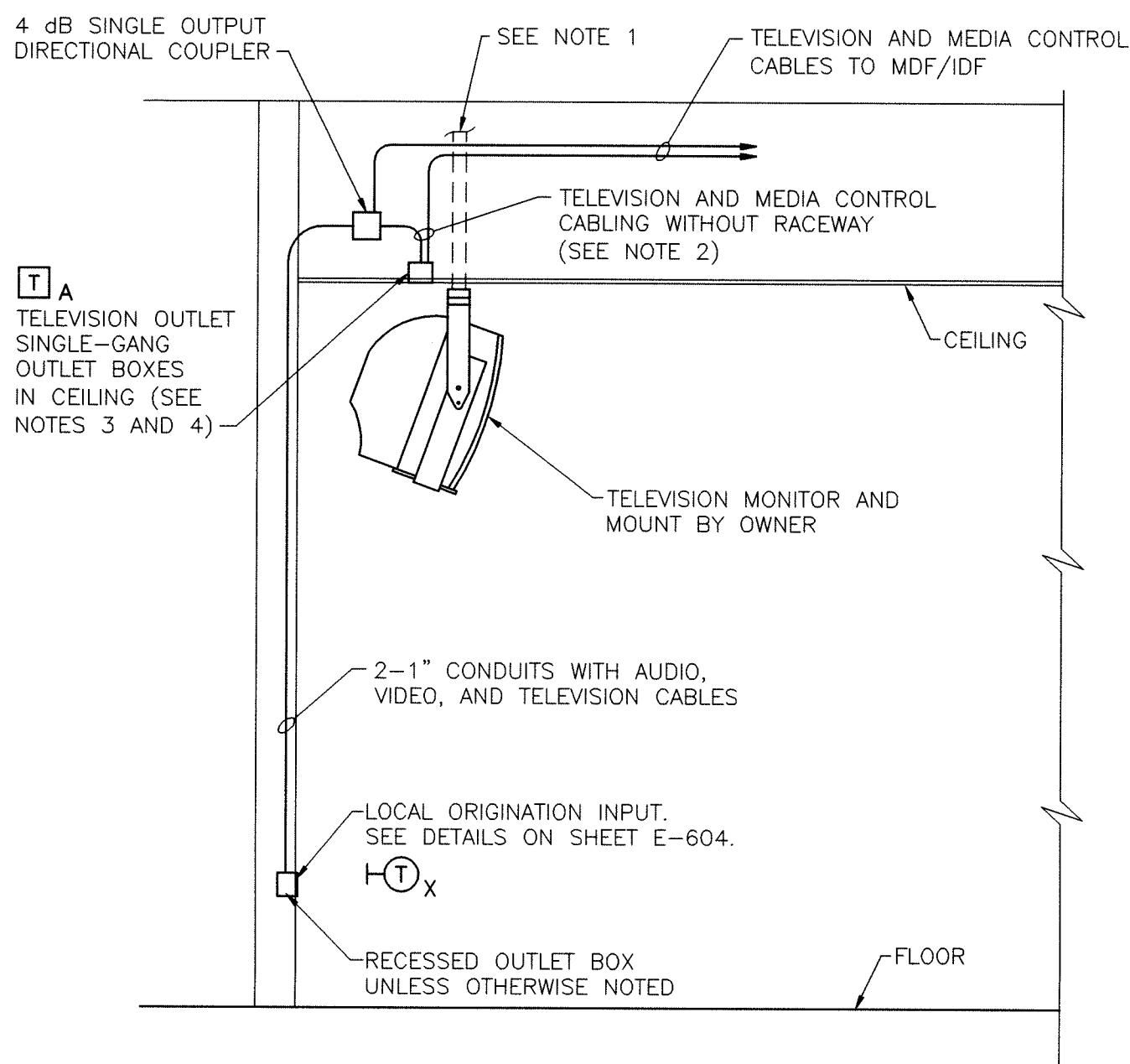
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Mon, 3/19/2007 - 6:47 pm
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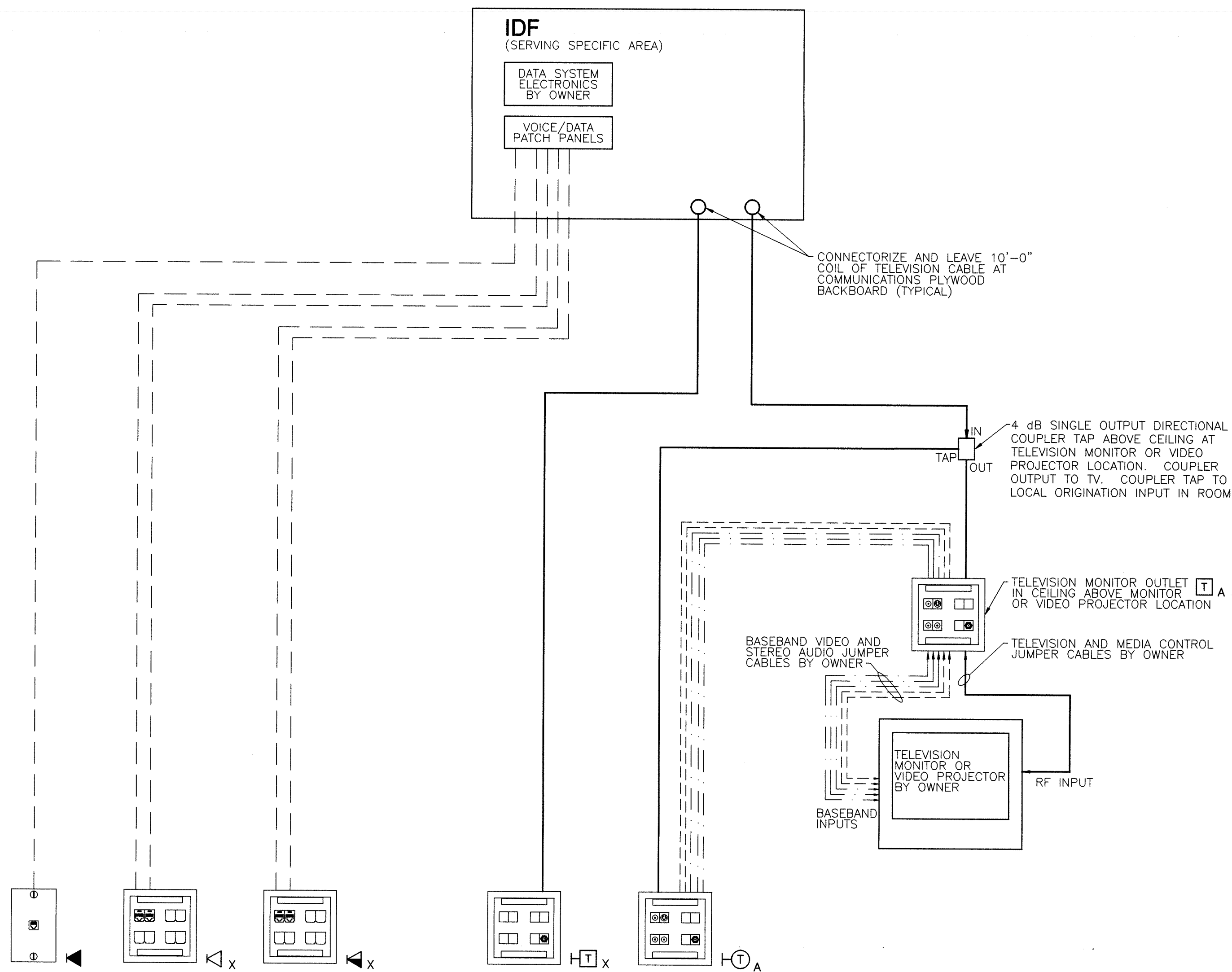
TYPICAL TELEVISION SYSTEM ROOM LAYOUT DETAIL
NOT TO SCALE

- NOTES:
1. STRUCTURAL PIPE SUPPORT MOUNTING FOR VIDEO PROJECTOR MOUNT. SUPPORT AND MOUNT BY OWNER.
 2. CONNECTORIZE TELEVISION AND MEDIA CONTROL CABLES AND LEAVE 10'-0" COILS OF CABLE ABOVE CEILING AT TELEVISION MONITOR LOCATION FOR OWNER USE.
 3. INSTALL TELEVISION OUTLET BOX FOR TELEVISION, VIDEO, AUDIO, AND MEDIA CONTROL CABLE IN CEILING WITH SPECIFIED TEE-SPAN BOX HANGER, AND ROUTE CABLE TO OUTLET BOX.
 4. INSTALL TELEVISION OUTLET POWER RECEPTACLE OUTLET BOX IN CEILING WITH SPECIFIED TEE-SPAN BOX HANGER. PROVIDE DUPLEX RECEPTACLE WITH COVERPLATE. CONNECT RECEPTACLE TO TELEVISION OUTLET RECEPTACLE CIRCUIT IN POWER JUNCTION BOX UTILIZING MC CABLE. MC CABLE SHALL BE PLENUM RATED WHERE REQUIRED BY CONDITIONS. JUNCTION BOX LOCATED ABOVE THE CEILING IN THIS ROOM UNLESS OTHERWISE INDICATED.



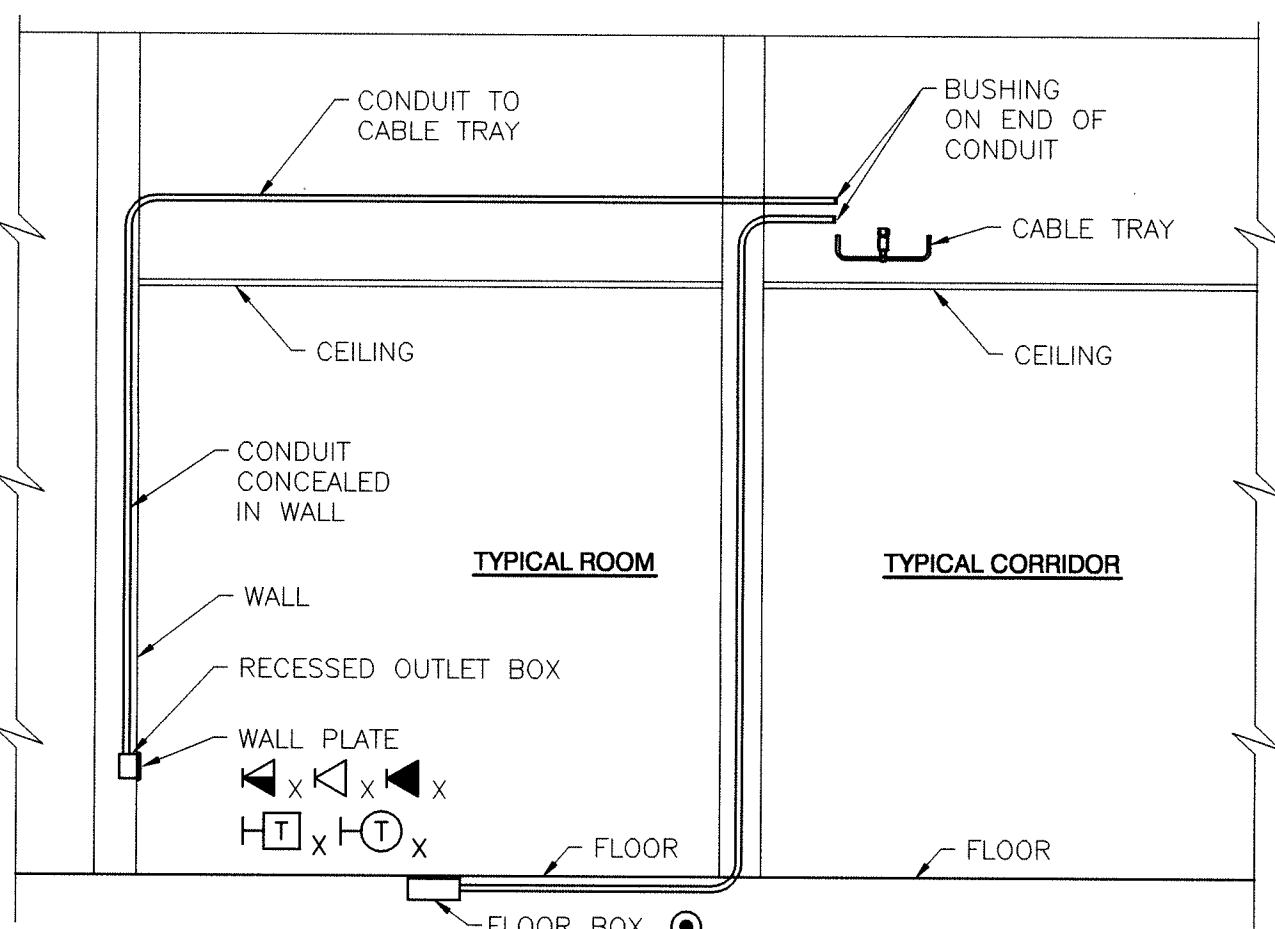
TYPICAL TELEVISION SYSTEM ROOM LAYOUT DETAIL
NOT TO SCALE

- NOTES:
1. STRUCTURAL PIPE SUPPORT MOUNTING FOR TELEVISION MONITOR MOUNT. SUPPORT AND MOUNT BY OWNER.
 2. CONNECTORIZE TELEVISION AND MEDIA CONTROL CABLES AND LEAVE 10'-0" COILS OF CABLE ABOVE CEILING AT TELEVISION MONITOR LOCATION FOR OWNER USE.
 3. INSTALL TELEVISION OUTLET BOX FOR TELEVISION, VIDEO, AUDIO, AND MEDIA CONTROL CABLE IN CEILING WITH SPECIFIED TEE-SPAN BOX HANGER, AND ROUTE CABLE TO OUTLET BOX.
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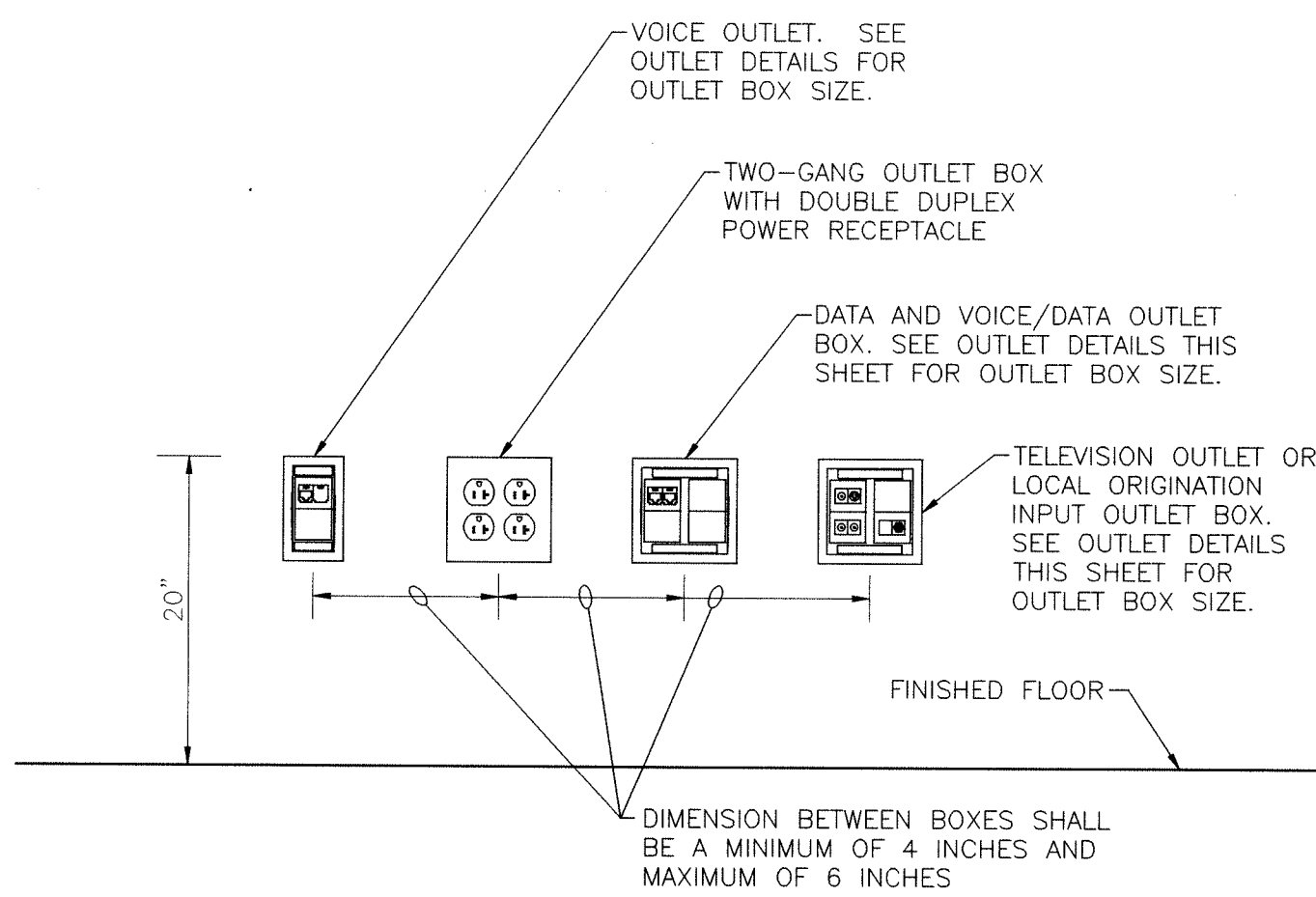
TYPICAL TECHNOLOGY SYSTEMS WIRING DIAGRAM
NOT TO SCALE

CABLE LEGEND	
---	RG-6 COAXIAL RF TELEVISION CABLE
---	BASEBAND VIDEO CABLES
---	AUDIO CABLE
---	CATEGORY 6 VOICE/DATA CABLE



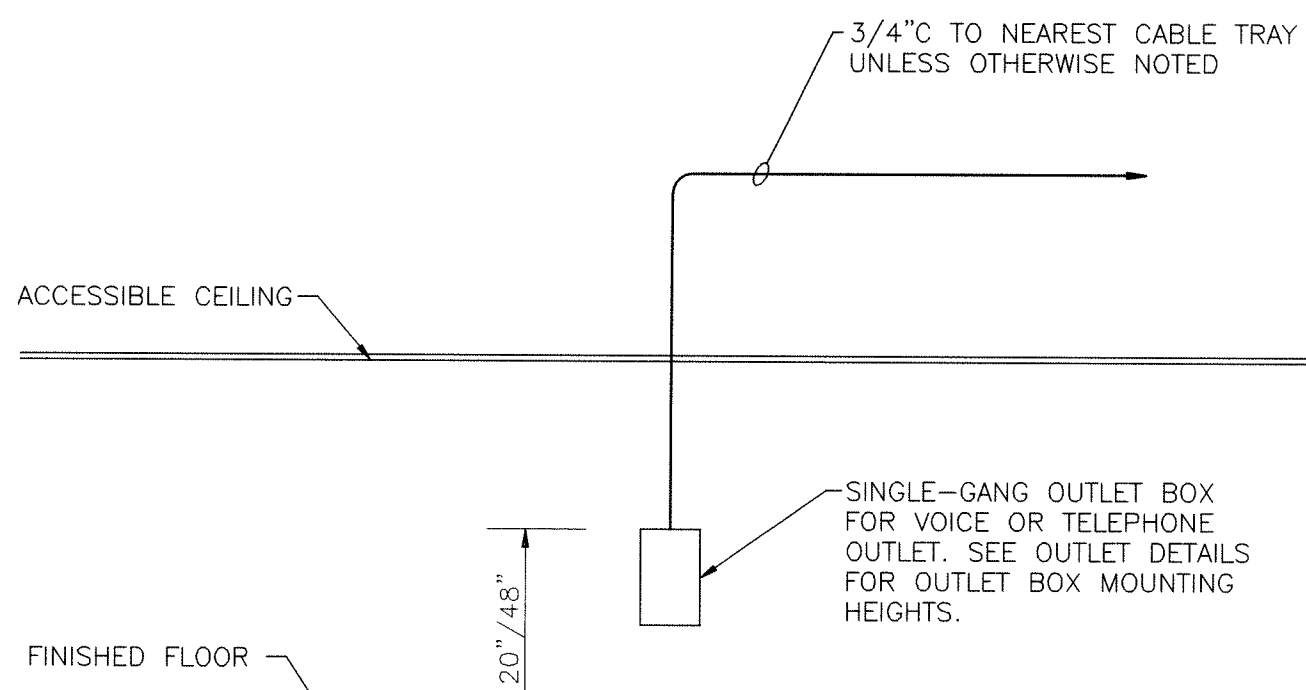
TYPICAL VOICE, DATA, AND TELEVISION OUTLET AND RACEWAY DETAIL
NOT TO SCALE

NOTE: VERIFY OUTLET MOUNTING HEIGHTS, LOCATIONS, AND WALL AND CEILING CONDITIONS.



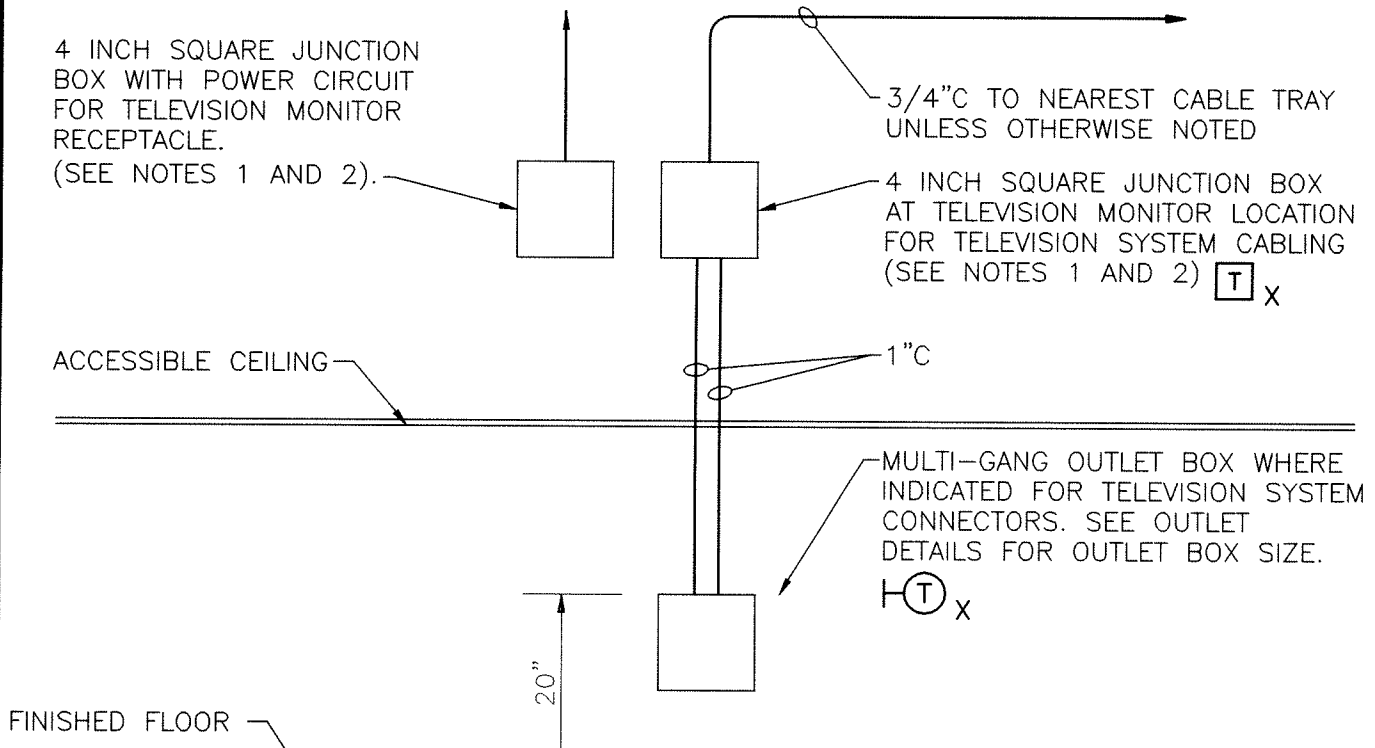
TYPICAL VOICE, DATA, VOICE/DATA, AND TELEVISION OUTLET ELEVATION
NOT TO SCALE

SYMBOLS= H-T x H-T x H-T x H-T x



TYPICAL ELEVATION FOR VOICE AND TELEPHONE OUTLETS
NOT TO SCALE

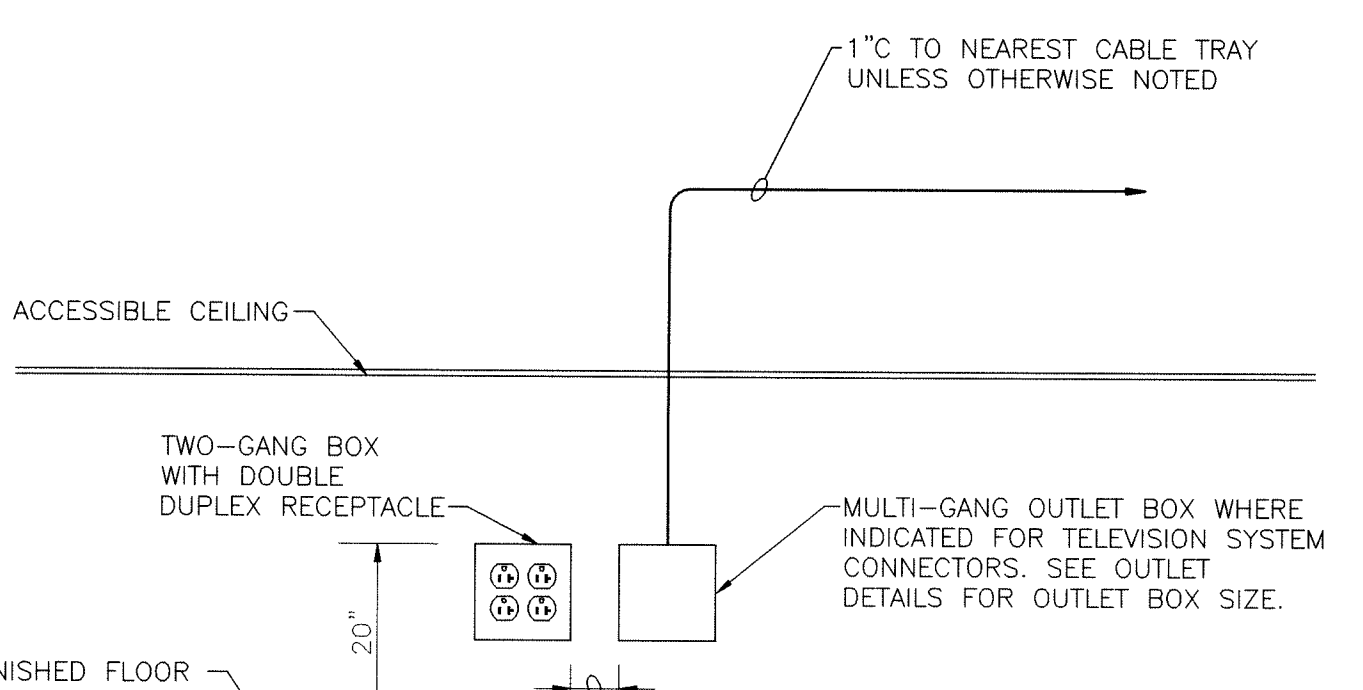
SYMBOL =



TYPICAL ELEVATION FOR TELEVISION OUTLET WITH LOCAL INPUT
NOT TO SCALE

SYMBOLS= H-T x H-T x

- NOTES:
1. JUNCTION BOX ABOVE THE CEILING ADJACENT TO THE TELEVISION MONITOR LOCATION OR NEAREST AVAILABLE ACCESSIBLE CEILING.
 2. WHERE ROOM CEILING IS OTHER THAN AN ACCESSIBLE TYPE CEILING (LAY-IN GRID, ETC.), VERIFY EXACT LOCATION OF THE CONDUITS AND JUNCTION BOXES ABOVE THE CEILING WITH ARCHITECT.



TYPICAL ELEVATION FOR WALL MOUNTED DATA, VOICE/DATA AND TELEVISION OUTLETS
NOT TO SCALE

SYMBOLS= H-T x H-T x H-T x



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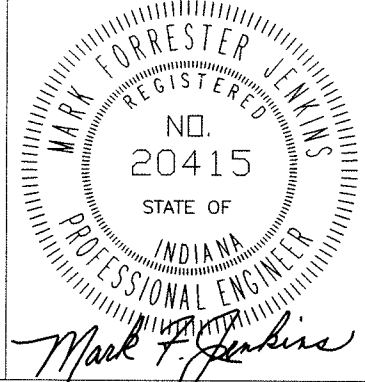
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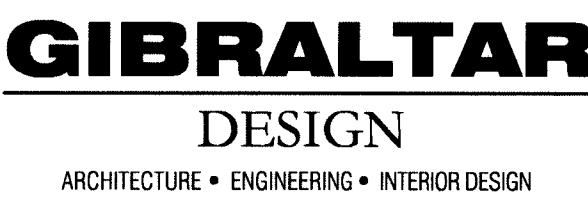
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LAWRENCE CENTRAL HIGH SCHOOL

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PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

LAWRENCE CENTRAL HIGH SCHOOL PANELBOARD SCHEDULE

MARK & TYPE

3-PH

TYPE NF

377/600V, 3 PH, 4W

225 AMP MAIN LUGS

MEMO 1

RESURFACE MOUNTED

REMARKS

BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS

CIRCUIT BREAKERS SHALL HAVE MINIMUM 18,000 AMP INTERRUPTING CAPACITY - TYPE EOB

DESCRIPTION	CHR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HAT	AC	FUTR	POLE	TRIP	CHR	DESCRIPTION
MAIN UNIT (7.5 HP)	1	3	20				2.10			1.05		2.10				
	3							3.05			3.05				3	15
	5							2.10			2.10					4
	5								3.05		3.05					8
AREA2 (5 HP)	7	3	15				2.10				2.10					
							5.82				5.82				3	40
	9							2.10			2.10					8
	11								2.10		5.82					10
									5.82		5.82					12
CP-A5 (7.5 HP)	13	3	20				3.05				3.05				3	20
	15							3.05			3.05					16
	17								3.05		3.05					18
CP-A1 (3/4 HP)	19	3	15				0.45				0.30				3	15
	21							0.45			0.45					20
	23							0.30			0.30					22
									0.45		0.45					24
CP-A2 (3/4 HP)	25	3	15				0.45				0.45				3	15
	27							0.45			0.45					26
	29							0.45			0.45					30
								0.45			0.45					32
SPACE	31	3													3	
	33															34
	35															36
SPACE	37	3													3	
	39															40
	41															42
TOTAL CONNECTED LOAD (KVA)							20.92	20.92	20.92		62.46					
TOTAL DEMAND LOAD (KVA)											82.45					

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MARK FORRESTER JENKINS
REGISTERED
NO. 20415
STATE OF INDIANA
PROFESSIONAL ENGINEER

Mark F. Jenkins

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MARK	DATE	ISSUED FOR

DRAWING PANEL SCHEDULES

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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DRAWING
PANEL SCHEDULES

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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LAWRENCE CENTRAL HIGH SCHOOL PANELBOARD SCHEDULE																																
MARK & TYPE				REMARKS																												
TLT - SECTION 1				BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS																												
TYPE NOOD				CIRCUIT BREAKERS SHALL HAVE MINIMUM 10,000 AMP INTERRUPTING CAPACITY - TYPE QOB																												
120/208V, 3 PH, 4W				TWO SECTION PANEL - BOTH SECTIONS SAME HEIGHT - SECTION 1 OF 2																												
225 AMP MAIN LUGS				PROVIDE PANEL WITH SEPARATE ISOLATED GROUND BUS																												
NEMA 1																																
SURFACE MOUNTED																																
DESCRIPTION	CR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CR	DESCRIPTION	CR	POLE	TRIP	LTS	REC	EQUIP	A	B	C	HEAT	A/C	FUTR	POLE	TRIP	CR	DESCRIPTION
300 326 340 342 343 RECEPT (5)	1	1	20		0.90	0.90										1	20	2	307 WC RECEPT (1)													
300 326 340 342 343 RECEPT (5)	1	1	20		0.90	0.90										1	20	2	307 WC RECEPT (1)													
300 326 340 342 343 RECEPT (5)	1	1	20		0.90	0.90										1	20	2	307 WC RECEPT (1)													
300 326 340 342 343 RECEPT (5)	1	1	20		0.90	0.90										1	20	2	307 WC RECEPT (1)													
300 326 340 342 343 RECEPT (5)	1	1	20		0.90	0.90										1	20	2	307 WC RECEPT (1)													
300 326 340 342 343 RECEPT (5)	1	1	20		0.90	0.90										1	20	2	307 WC RECEPT (1)													
300 326 340 342 343 RECEPT (5)	1	1	20		0.90	0.90										1	20	2	307 WC RECEPT (1)													
300 326 340 342 343 RECEPT (5)	1	1	20		0.90	0.90										1	20	2	307 WC RECEPT (1)													
300 326 340 342 343 RECEPT (5)	1	1	20		0.90	0.90										1	20	2	307 WC RECEPT (1)													
300 326 340 342 343 RECEPT (5)	1	1	20		0.90	0.90										1	20	2	307 WC RECEPT (1)													
300 326 340 342 343 RECEPT (5)	1	1	20		0.90	0.90										1	20	2	307 WC RECEPT (1)													
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300 326 340 342 343 RECEPT (5)	1	1	20		0.90	0.90										1	20	2	307 WC RECEPT (1)													
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PROJECT

LAWRENCE CENTRAL HIGH SCHOOL

RENOVATIONS, ADDITIONS
AND RELATED WORK

MSD OF LAWRENCE TOWNSHIP

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DATE 06-612

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MARK	DATE	ISSUED FOR
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DRAWING		

DEMOLITION POWER

DISTRIBUTION DIAGRAM

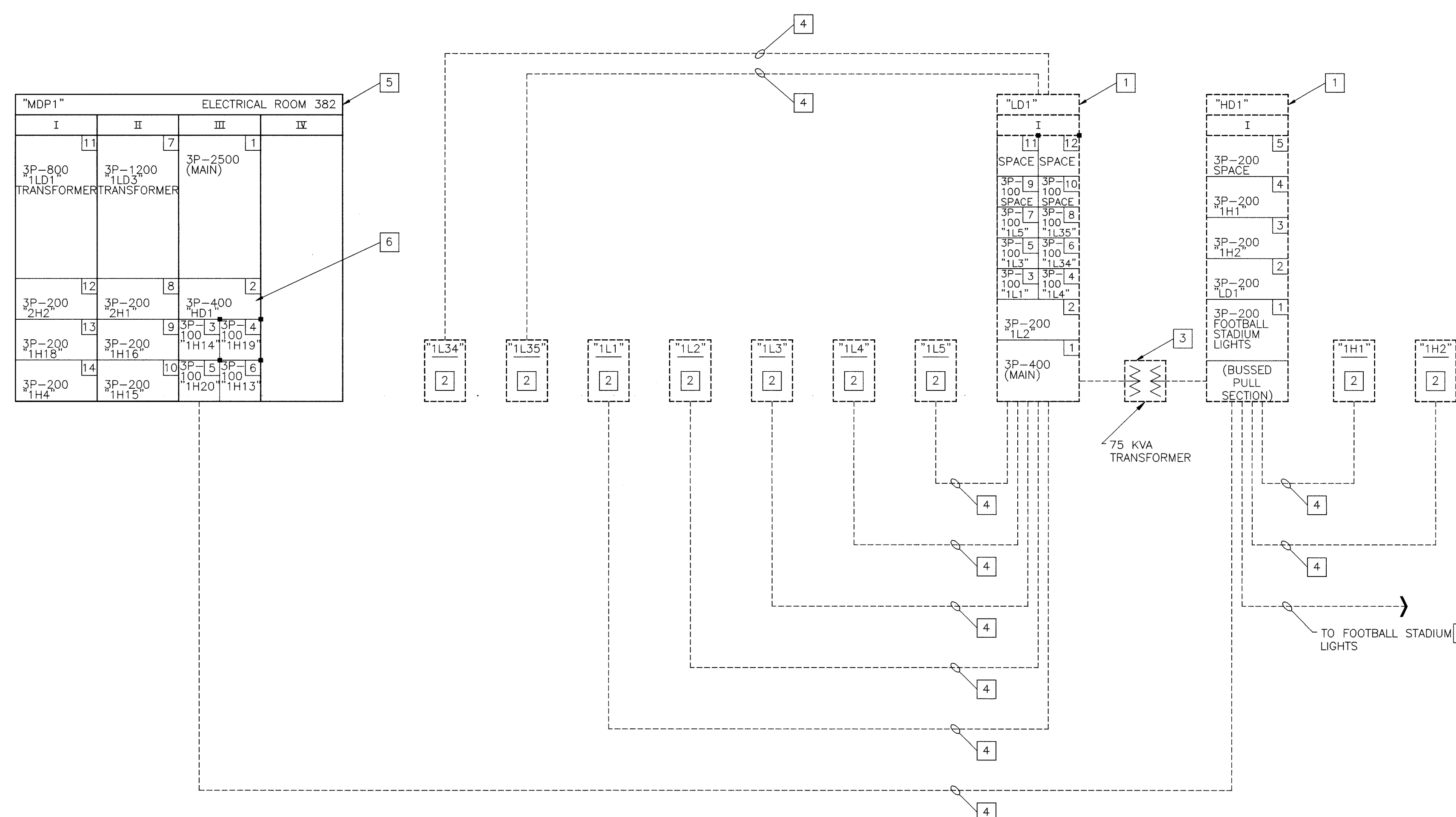
PROJECT

LAWRENCE CENTRAL HIGH SCHOOL

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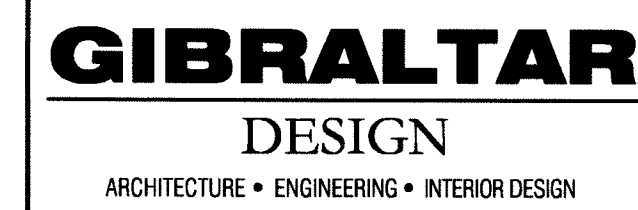
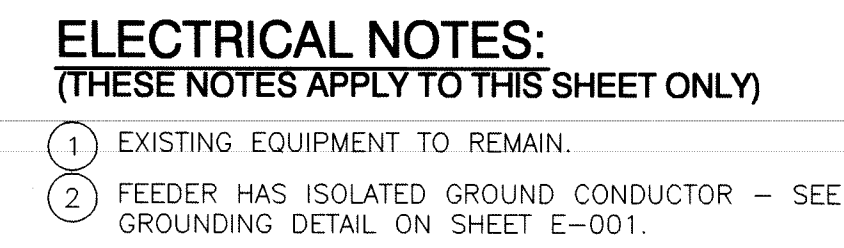


NOTES:

- | | |
|---|--|
| 1 | REMOVE EXISTING SWITCHBOARD COMPLETE. |
| 2 | REMOVE EXISTING PANELBOARD COMPLETE. |
| 3 | REMOVE EXISTING DRY TYPE TRANSFORMER COMPLETE. |
| 4 | REMOVE EXISTING FEEDER COMPLETE. |
| 5 | EXISTING SWITCHBOARD TO REMAIN. |
| 6 | RELABEL EXISTING SWITCH AS "SPARE" |
| 7 | EXISTING UNDERGROUND FEEDER APPEARS TO BE ABANDONED —
REMOVE TO PUMP BELLY LEVEL. NEW FOUNDATION AND
RANDOM REMAINING WIRE CONDUIT IN PLACE. |

DEMOLITION POWER DISTRIBUTION DIAGRAM

NOT TO SCALE



EXISTING EMERGENCY POWER DISTRIBUTION DIAGRAM



DRAWING NEW PARTIAL POWER DISTRIBUTION DIAGRAM - BASE BID COPPER CONDUCTORS
PROJECT LAWRENCE CENTRAL HIGH SCHOOL

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- ① FEEDER CONDUCTORS TO REMAIN COPPER AS INDICATED UNDER BASE BID - SEE SHEET E-702.
- ② FEEDER HAS ISOLATED GROUND CONDUCTOR - SEE GROUNDING DETAIL ON SHEET E-001.
- ③ FEEDER CONDUCTORS TO BE ALUMINUM UNDER ALTERNATE BID.



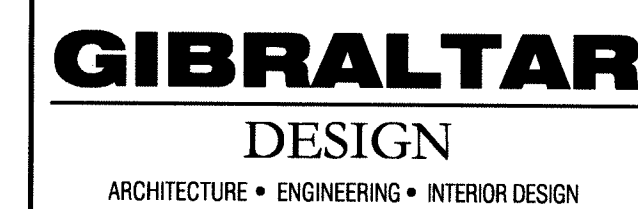
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DRAWING
NEW PARTIAL
POWER DISTRIBUTION
DIAGRAM - ALTERNATE BID
ALUMINUM CONDUCTORS

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03/19/07

COORDINATED BY
MFJ

DRAWN BY
NAK

CHECKED BY
MFJ

MARK FORRESTER JENKINS
REGISTERED
NO.
20415
STATE OF
INDIANA
PROFESSIONAL ENGINEER
INVESTIGATION

Mark F. Jenkins

REVISIONS		
MARK	DATE	ISSUED FOR

DRAWING
GYMNASIUM 307
SOUND REINFORCEMENT

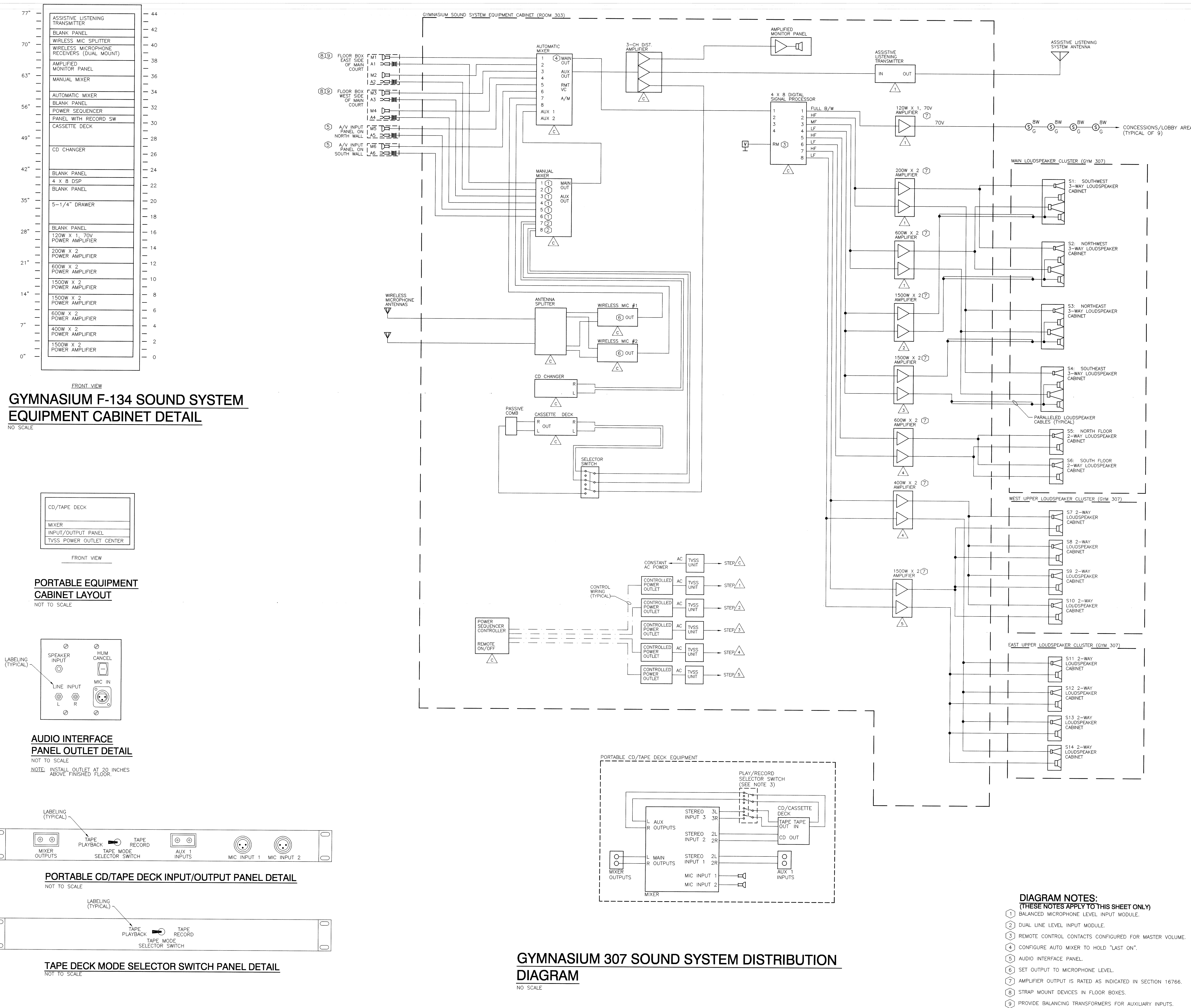
SOUND REINFORCEMENT SYSTEM DIAGRAM

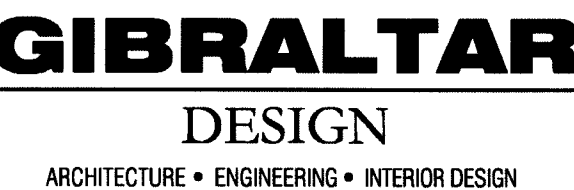
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LAWRENCE CENTRAL HIGH SCHOOL

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E-704

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

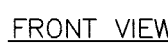


NO SCALE

DIAGRAM NOTES:
(THESE NOTES APPLY TO THIS DIAGRAM ONLY)

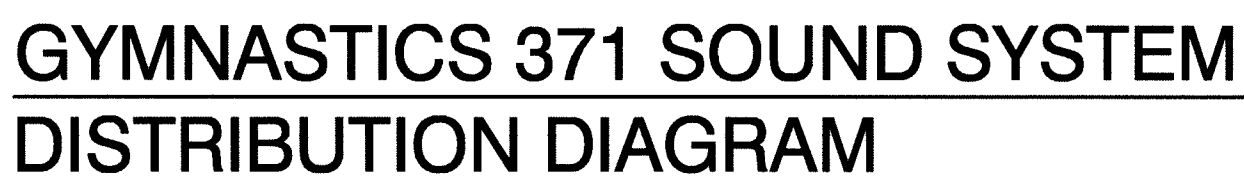
① DUAL LINE LEVEL INPUT MODULE.

② PROVIDE ANTENNA FEED FROM ROOF MOUNTED ANTENNA DISTRIBUTION SYSTEM. SEE SECTION 16766.



GYMNASTICS 371 SOUND SYSTEM EQUIPMENT CABINET DETAIL

NO SCALE



NO SCALE

DIAGRAM NOTES:
(THESE NOTES APPLY TO THIS DIAGRAM ONLY)

- 1 BALANCED MICROPHONE LEVEL INPUT MODULE.
- 2 DUAL LINE LEVEL INPUT MODULE.
- 3 SET OUTPUT TO MICROPHONE LEVEL.

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06-612

DATE 07/10/07

03/19/07
COORDINATED BY

COORDINATE
MFJ

RAWN BY
NAK

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REVISIONS

[illegible]

DRAWING SOUND SYSTEM DIAGRAMS

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

GIBRALTAR DESI

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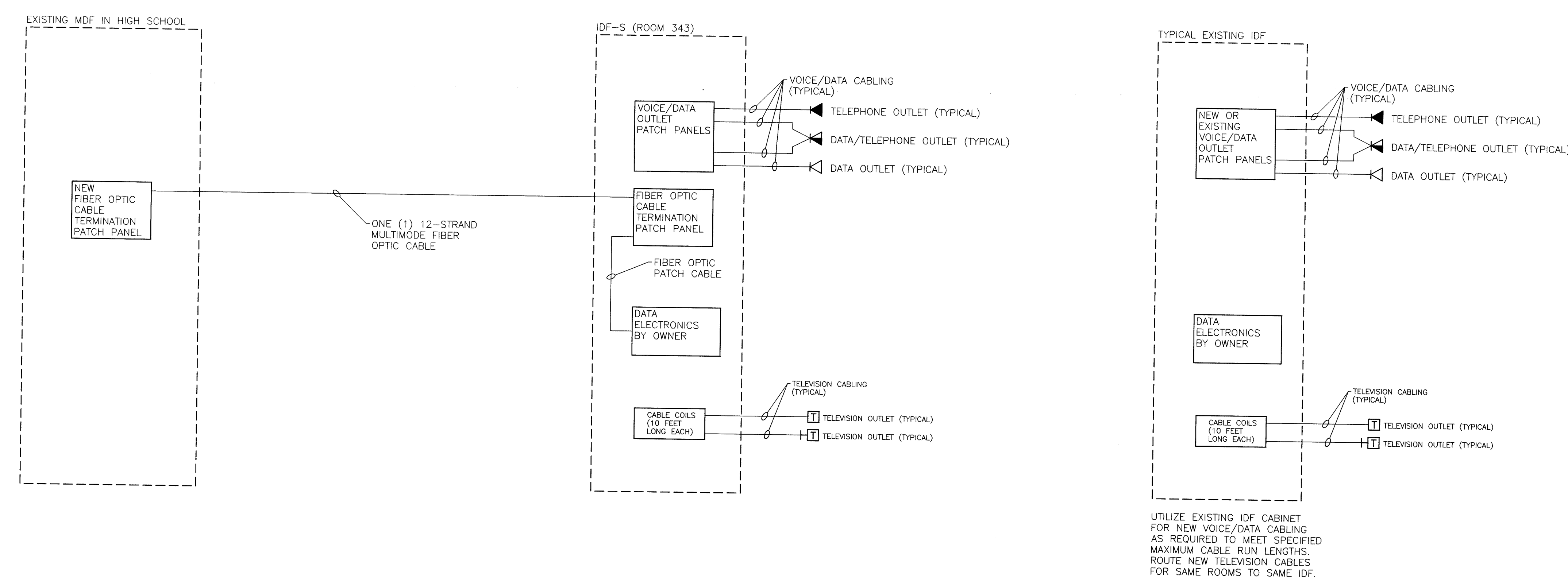
E-706



**RENOVATIONS, ADDITIONS
AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP**



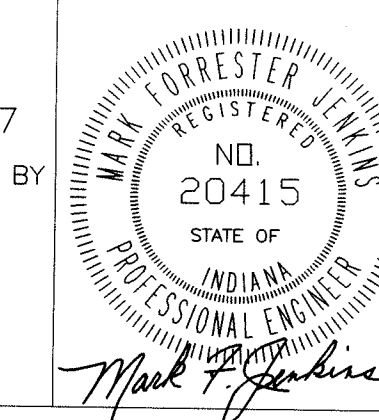
NOTE: ADJUST THE POSITION OF THE FRONT MOUNTING RAILS OF THE EQUIPMENT CABINET TO BE RECESSED SIX (6) INCHES BEHIND THE FRONT DOOR OF THE CABINET TO ALLOW SPACE FOR PATCH CORDS AND CABLE MANAGEMENT PANELS.



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