

LEGEND & ABBREVIATIONS		
ABBREVIATION	SYMBOL	DESCRIPTION
HWS		HOT WATER SUPPLY
HWR		HOT WATER RETURN
MBV		METERED BALANCING VALVE
GV		GATE VALVE
CV		CHECK VALVE
CHS		CHILLED WATER SUPPLY
CHR		CHILLED WATER RETURN
MOV		MOTOR OPERATED (2-WAY) VALVE
		STRAINER
		UNION
FD		FIRE DAMPER
		SINGLE LINE DUCT
		FLEXIBLE DUCT
		DUCT TRANSITION
		ROUND
		PIPE UP
		PIPE OR DUCT DOWN
		DIRECTION OF FLOW
MLD/MD		MANUAL DAMPER
T*STAT		THERMOSTAT
		WEATHERPROOF JUNCTION BOX

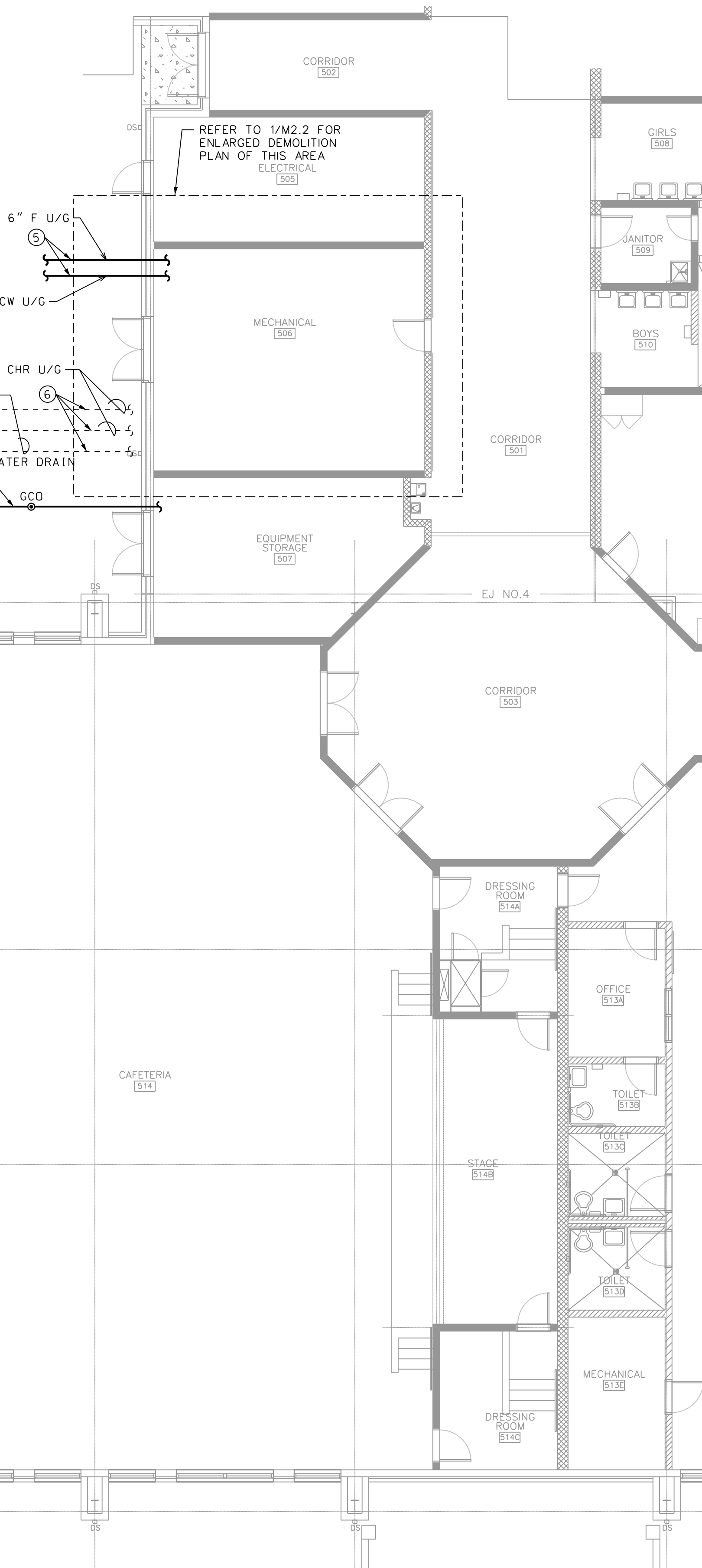
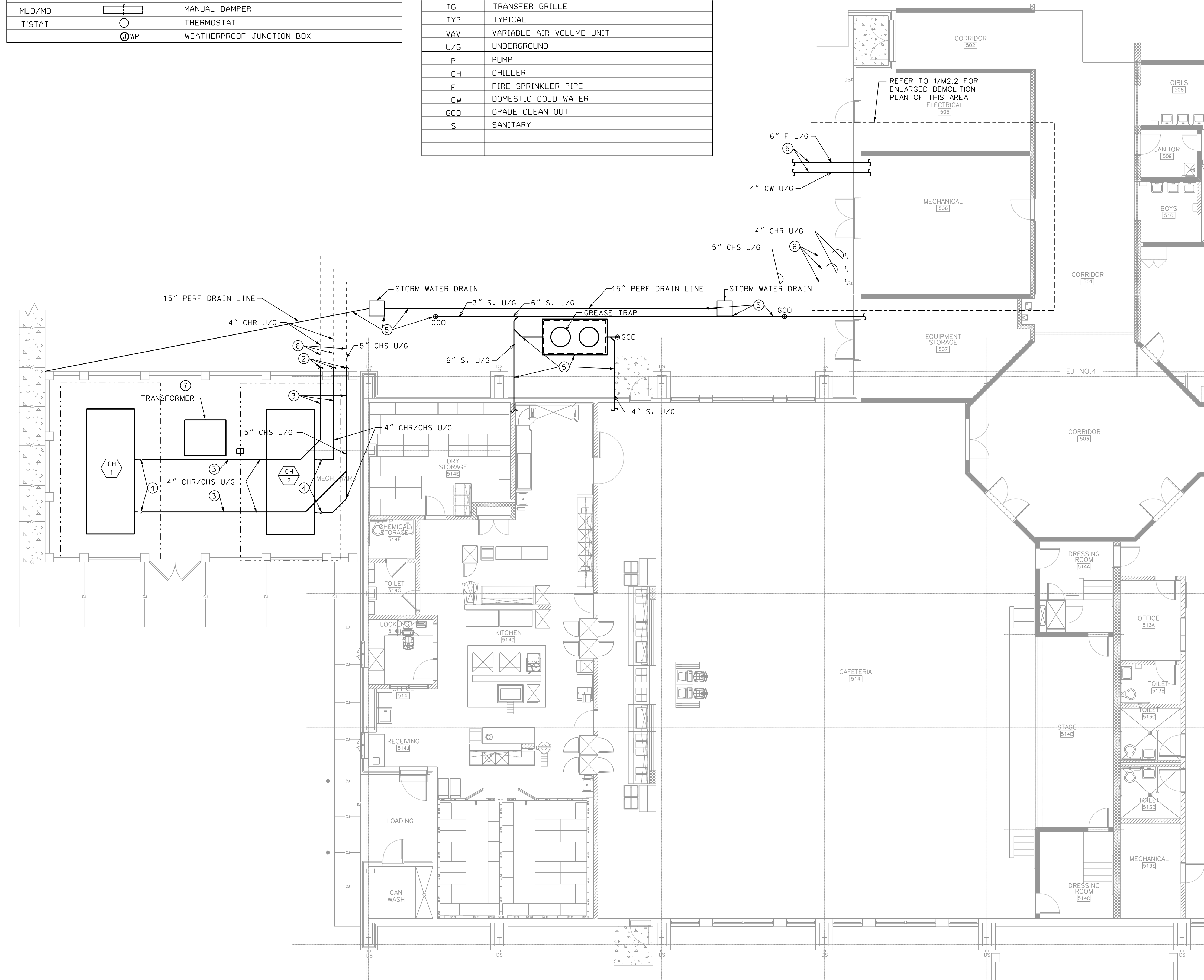
ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
A/C	ABOVE CEILING
AHU	AIR HANDLING UNIT
AD	DUCT ACCESS DOOR
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CTE	CONNECT TO EXISTING
DN	DOWN
DWGS	DRAWINGS
EF	EXHAUST FAN
ELEC	ELECTRIC
EXH	EXHAUST
EXIST	EXISTING
GPM	GALLONS PER MINUTE
HVAC	HEATING VENTILATING & AIR CONDITIONING
MAX	MAXIMUM
MIN	MINIMUM
TG	TRANSFER GRILLE
TYP	TYPICAL
VAV	VARIABLE AIR VOLUME UNIT
U/G	UNDERGROUND
P	PUMP
CH	CHILLER
F	FIRE SPRINKLER PIPE
CW	DOMESTIC COLD WATER
GCO	GRADE CLEAN OUT
S	SANITARY

GENERAL NOTES:

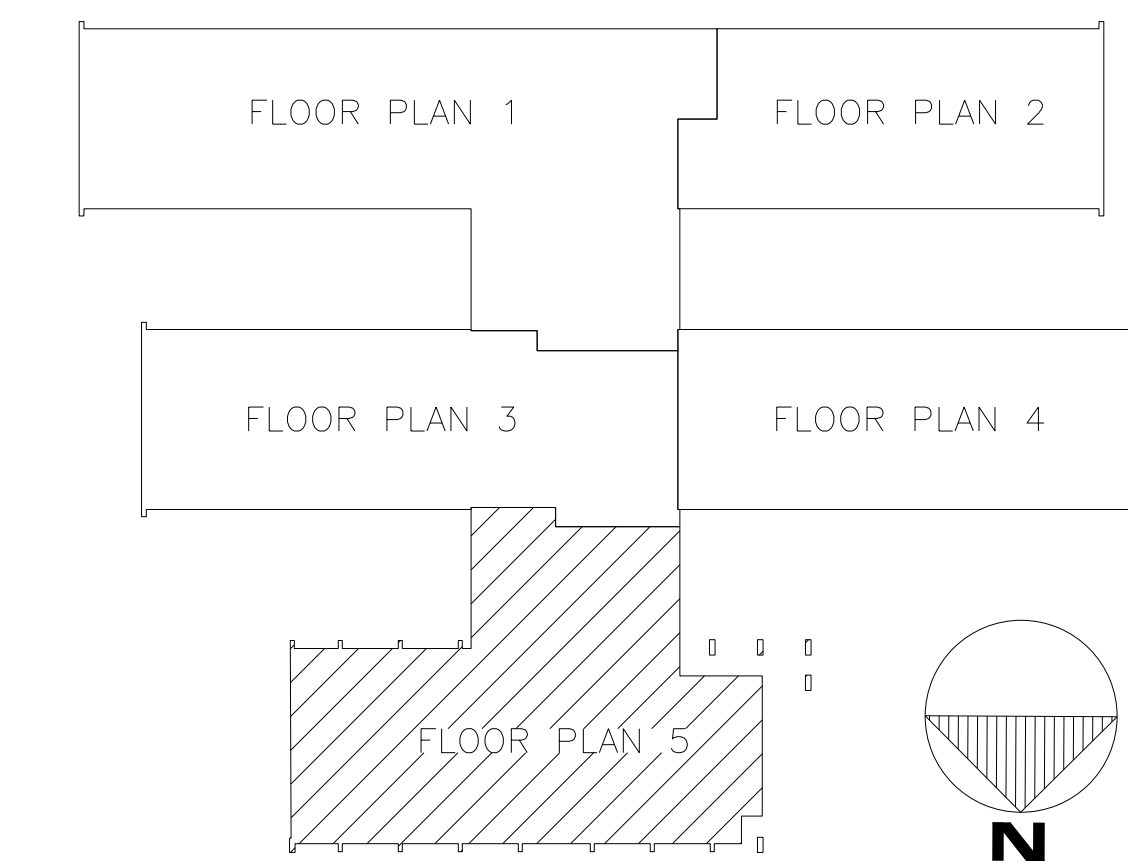
- COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
- EXISTING CONDITIONS: THE DESIGN IS BASED ON BASIC FIELD INVESTIGATIONS AND EXISTING PLANS WHERE AVAILABLE. AS SUCH, THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS. IF ANY DEVIATIONS ARE DISCOVERED BETWEEN THE ACTUAL CONDITIONS AND THE CONDITIONS SHOWN ON THE DESIGN DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AS MODIFICATIONS MAY BE REQUIRED. CONTRACTOR SHALL ALSO VERIFY SPACE ABOVE CEILINGS AND IN MECHANICAL ROOMS PRIOR TO FABRICATION OF PIPING.

NOTES:

- _____ EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- ① FIELD VERIFY EXACT LOCATION, ROUTING, AND SIZE OF EXISTING.
- ② CUT AND CAP PIPE UNDERGROUND.
- ③ EXISTING PIPE TO BE ABANDONED IN PLACE UNDER EXISTING CONCRETE.
- ④ CAP PIPE IN RISE, FLUSH WITH EXISTING CONCRETE.
- ⑤ EXISTING EQUIPMENT UNDERGROUND SHOWN FOR INFORMATION ONLY. FIELD VERIFY LOCATION AND SIZE PRIOR TO NEW WORK.
- ⑥ EXISTING PIPE TO BE REMOVED AND PROPERLY DISPOSED OF.
- ⑦ EXISTING TEMPORARY PVC PIPE SHALL BE MOVED AS REQUIRED TO ALLOW DEMOLITION OF EXISTING UNDERGROUND PIPING.



1 PART PLAN AREA 5 - HVAC PIPING
M1.1 SCALE: 1/8" = 1'-0"



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Revisions

No.	Date	Description

SOUTHWEST ELEMENTARY
U/G CHILLED WATER REPLACEMENT
SAVANNAH, GEORGIA

Stamp

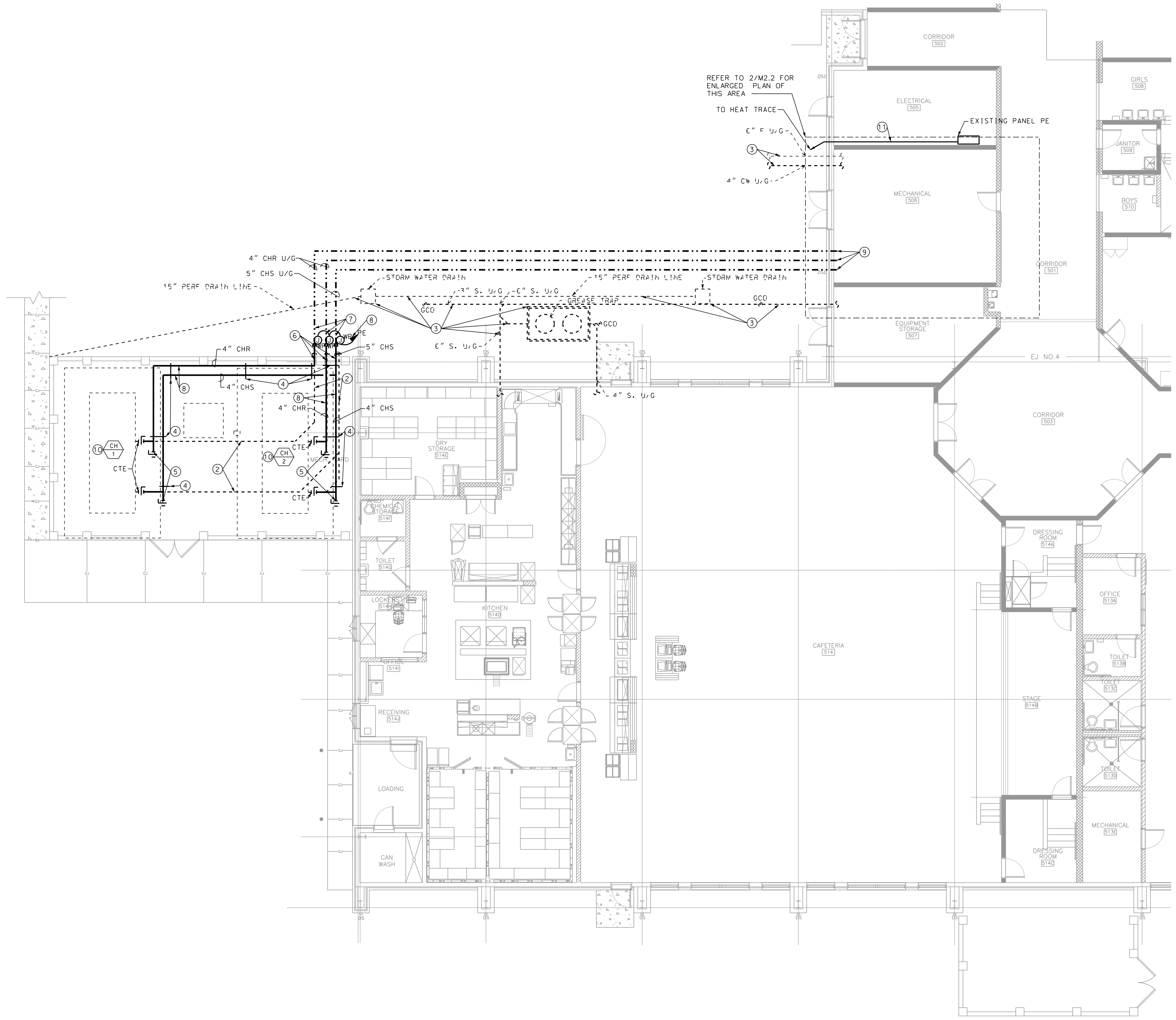
Sheet Title

PART PLAN AREA 5 - HVAC PIPING DEMOLITION

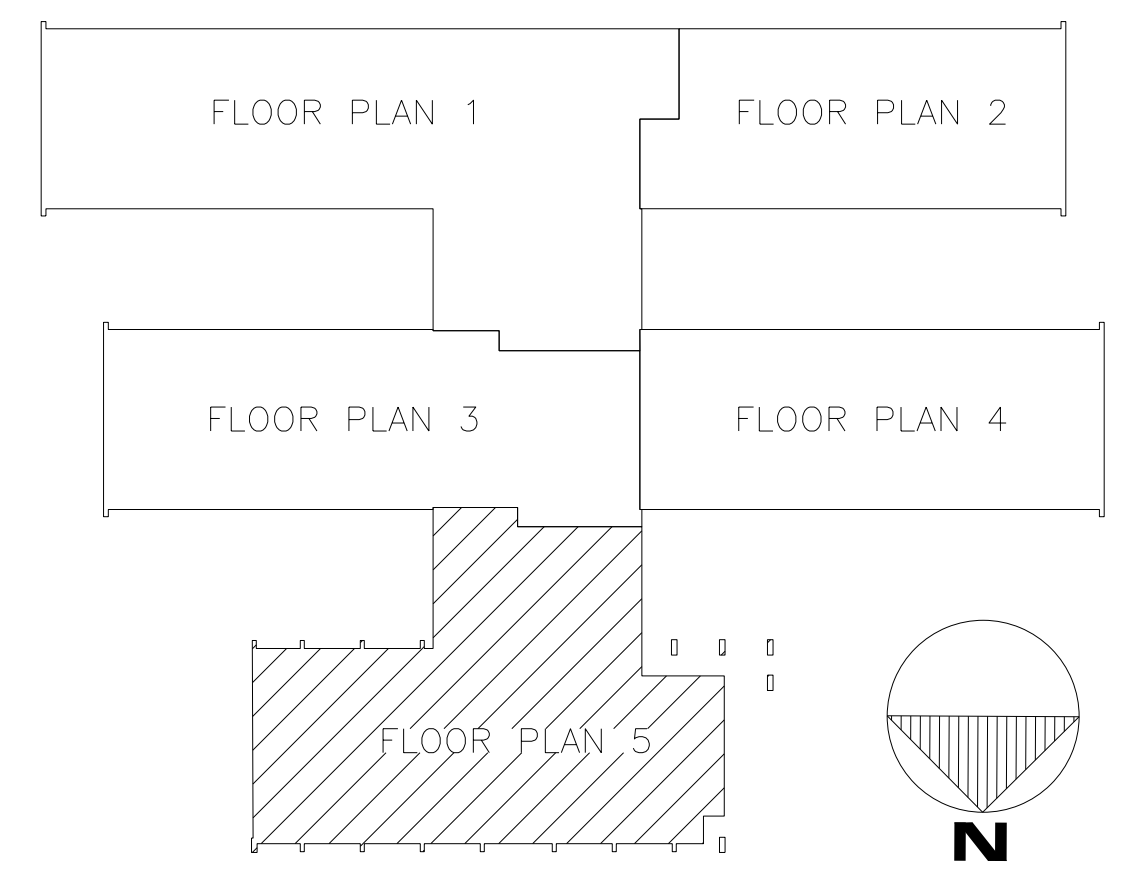
Job No. 17079.00
Drawn SNS
Checked SNS
Date 11/28/2017 Sheet No. **M1.1**

NOTES:

- EXISTING TO REMAIN
- _____ NEW WORK
- UNDERGROUND PIPE
- ① FIELD VERIFY EXACT LOCATION, ROUTING, AND SIZE OF EXISTING.
- ② EXISTING CHILLED WATER PIPE TO REMAIN. PIPES ABANDONED IN PLACE UNDERGROUND.
- ③ EXISTING EQUIPMENT UNDERGROUND. FIELD VERIFY LOCATION AND ROUTING PRIOR TO MANUFACTURE OF NEW PIPES.
- ④ INSTALL PIPES ON PIPE RACK.
- ⑤ VALVE FOR FUTURE CHILLER CONNECTION.
- ⑥ CORE DRILL THROUGH EXISTING BRICK WALL. ROUTE NEW PIPE THROUGH PENETRATION. SEAL GAP BETWEEN PIPE AND PENETRATION
- ⑦ PRE-INSULATED PIPE U/G.
- ⑧ EXPOSED PIPING SHALL HAVE HEAT TRACE INSTALLED. BRANCH CIRCUIT HOMERUN - CONNECT HEAT TRACE TO BRANCH CIRCUIT AVAILABLE IN PANEL PE. USE SPARE 20 AMP, 1 POLE BREAKER OR FURNISH AND INSTALL IN AVAILABLE SPARE A 20 AMP, 1 POLE BREAKER. FRAME STYLE TO MATCH EXISTING. FURNISH AND INSTALL WEATHERPROOF JUNCTION BOX FOR CONNECTION POINT. ROUTE BRANCH CIRCUIT BELOW GRADE TO PANEL PE LOCATION.
- ⑨ CONTRACTOR SHALL MOVE TEMPORARY CHILLED WATER PIPING AS REQUIRED TO KEEP BUILDING CHILLED WATER SYSTEM OPERATIONAL DURING INSTALLATION OF UNDERGROUND PIPING. AS AN OPTION THE CONTRACTOR SHALL PROVIDE A TEMPORARY CHILLER UTILIZING THE TEMPORARY CONNECTIONS LOCATED IN THE MECHANICAL ROOM. REFER TO 1/2.2 FOR MORE INFORMATION.
- ⑩ CONTRACTOR SHALL FOLLOW ALL PRESTART UP PROCEDURES PRIOR TO FILLING SYSTEM WITH WATER. CONTRACTOR SHALL COORDINATE SYSTEM FILL WITH CHEMICAL TREATMENT CONTRACTOR. CONTRACTOR SHALL FOLLOW ALL START UP PROCEDURES PRIOR TO OPERATING SYSTEM WITH NEW PIPING. COORDINATE START UP WITH OWNER.
- ⑪ EMT BRANCH CIRCUIT EXPOSED. ROUTE LOW. PENETRATE EXTERIOR WALL LOW LB TO POINT BELOW GRADE. USE SCH 40 PVC RACEWAY BELOW GRADE. USE NO. 12 COPPER CONDUCTORS WITH GROUND. INSTALL IN ACCORDANCE WITH 2014 NEC.



1 PART PLAN AREA 5 - HVAC PIPING
M2.1 SCALE: 1/8" = 1'-0"



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PART PLAN AREA 5 - HVAC PIPING PLAN

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