

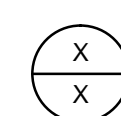
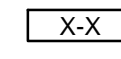

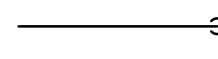
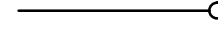
**GENERAL NOTES:**

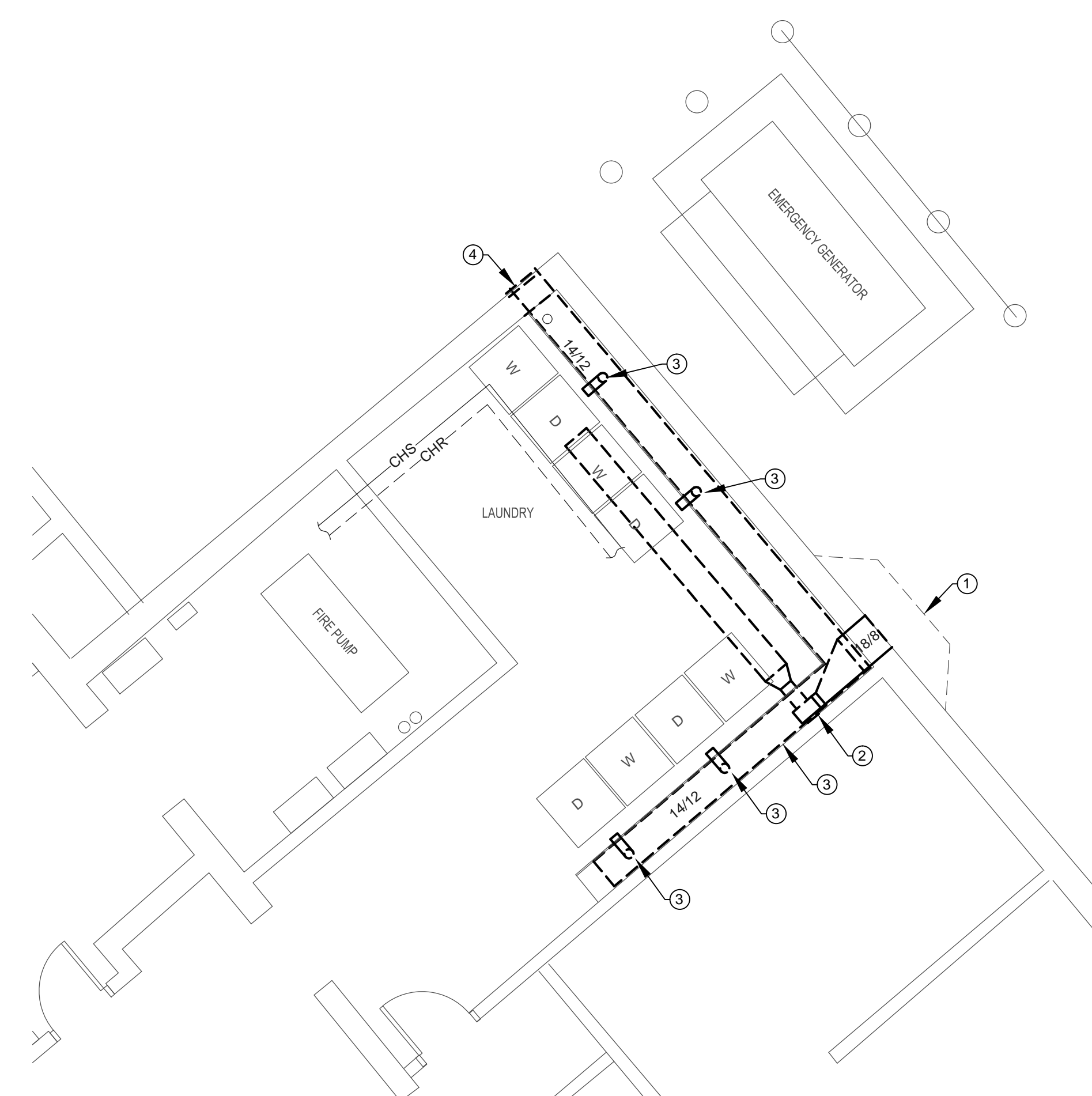
- THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATION OF EQUIPMENT, PIPING, DUCTWORK AND OTHER DEVICES UNLESS DIMENSIONS ARE GIVEN OR OTHERWISE IMPLIED. CONTRACTOR SHALL CONFORM TO ACTUAL BUILDING CONDITIONS.
- TRANSITIONS, OFFSETS, DROPS, ETC. SHALL BE PROVIDED AS REQUIRED FOR DUCTWORK AND PIPING, WHETHER SHOWN OR NOT ON PLANS. THE CONTRACTOR SHALL FULLY COORDINATE THE MECHANICAL WORK WITHIN ITSELF AND WITH THE WORK OF ALL OTHER TRADES TO PROVIDE COMPLETE AND OPERABLE SYSTEMS WITHOUT INTERFERENCES.
- PROVIDE ACCESS PANELS/DOORS WHERE REQUIRED FOR ADEQUATE ACCESS TO ALL CONCEALED EQUIPMENT, VALVES, DAMPERS AND CONTROLS WHETHER SHOWN OR NOT ON DRAWINGS.
- ALL DUCT SIZES ARE INSIDE CLEAR DIMENSIONS. REFER TO DRAWINGS AND SPECIFICATIONS FOR INTERNAL LINER INSULATION OR ATTENUATION PRIOR TO FABRICATION.
- SYSTEMS SHALL BE DESIGNED AND INSTALLED FOR EFFICIENT UTILIZATION OF ENERGY IN ACCORDANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
- ALL BRANCH DUCTS SHALL BE PROVIDED WITH VOLUME DAMPERS.
- PATCH AND SEAL ALL OPENINGS IN FLOORS, WALLS AND ROOF RESULTING FROM NEW WORK WITH MATERIALS AND FINISHES TO MATCH EXISTING. SEAL WITH FIRE RATED SEALANT BEFORE CLOSE OF SAME BUSINESS DAY.
- ALL DUCT SUPPORTS SHALL BE SIZED AND PROVIDED FOR THE SYSTEMS AS REQUIRED PER SMACNA STANDARDS.
- INSTALL DUCTWORK MAINS TIGHT TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE INDICATED.
- SLEEVES SHALL BE INSTALLED AT ALL WALL AND FLOOR PENETRATIONS FOR PIPING AND DUCTWORK WHETHER SHOWN ON DRAWINGS OR NOT.
- SYSTEMS SHALL BE DESIGNED AND INSTALLED FOR EFFICIENT UTILIZATION OF ENERGY IN ACCORDANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
- COORDINATE LOCATIONS OF DIFFUSERS, GRILLES AND REGISTERS WITH REFLECTED CEILING PLAN AND LIGHTING PLAN ON THE ARCHITECTURAL DRAWINGS.
- FLEXIBLE DUCT MAY BE USED FOR CONNECTIONS TO DIFFUSERS, WITH THE MAXIMUM FLEXIBLE DUCT LENGTH NOT TO EXCEED 6'-0". FLEXIBLE DUCT SHALL BE SUPPORTED TO ENSURE THERE ARE NO CRIMPS OR RESTRICTIONS IN THE DUCTWORK.
- LOCATION OF THERMOSTATS AND CONTROL PANELS SHALL BE AS SHOWN ON DRAWINGS OR AS DIRECTED IN FIELD.
- REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATING OF FLOORS AND WALLS AS REQUIRED BY NFPA AND IBC CODES. FIRE DAMPERS SHALL BE PROVIDED IN DUCTWORK PASSING THROUGH FIRE RATED WALLS AS REQUIRED BY IBC AND IMC 2009. PROVIDE APPROVED FIRE STOPPING MATERIAL AROUND ALL DUCTWORK AND PIPE PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS.
- ALL OPEN END DUCTWORK ABOVE CEILINGS SHALL HAVE SCREEN.

**ABBREVIATIONS:**

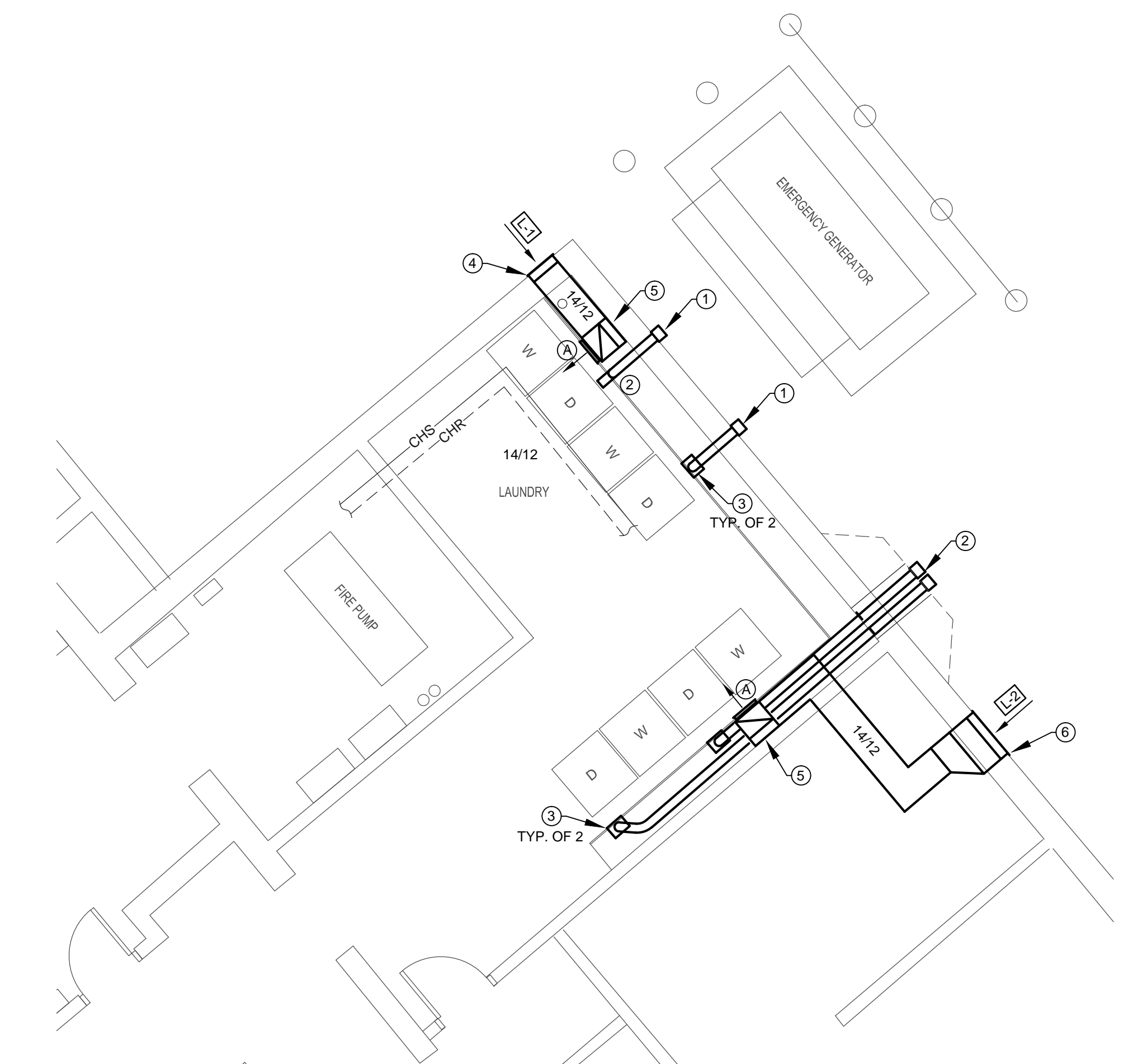
CFM	CUBIC FEET PER MINUTE
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
EF	EXHAUST FAN
FPM	FEET PER MINUTE
IN WC	INCHES WATER COLUMN
LAT	LEAVING AIR TEMPERATURE
MBH	1000 BTUH
OA	OUTSIDE AIR
PD	PRESSURE DROP
REF	REFRIGERANT
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SENS	SENSIBLE COOLING
SP	STATIC PRESSURE
T	THERMOSTAT
VEL	VELOCITY
WB	WET BULB

**SYMBOLS:**

-  DETAIL NUMBER  
SHEET LOCATION
-  EQUIPMENT TAG FOR SCHEDULES
-  SPECIFIC DRAWING NUMBERED NOTE
-  ELBOW TURNING DOWN
-  ELBOW TURNING UP



**1 LAUNDRY DEMOLITION PLAN**  
SCALE: 1/4"=1'-0"



**2 LAUNDRY NEW WORK PLAN**  
SCALE: 1/4"=1'-0"

**DEMOLITION CODED NOTES:**

- REMOVE LOUVER ON BUILDING EXTERIOR UNDER BAY WINDOW. DUCT OPENING TO REMAIN FOR RE-USE.
- REMOVE EXISTING EXHAUST FAN, DUCTWORK AND ASSOCIATED CONTROLS AND ELECTRICAL ABOVE CEILING. COORDINATE WITH E.C.
- REMOVE EXISTING RECTANGULAR EXHAUST DUCT AT CEILING AND THE DRYER 4"Ø DUCT DROPS BEHIND WALL. CLEAN ALL AREAS BEHIND WALLS AND ABOVE CEILING OF LINT.
- REMOVE DUCT AND LOUVER AT BUILDING EXTERIOR IN WELL AREA. OPENING TO REMAIN FOR RE-USE.

**NEW WORK CODED NOTES:**

- PROVIDE PENETRATION IN EXTERIOR WALL TO ALLOW FOR INSTALLATION OF 4"Ø RIGID ALUMINUM DRYER DUCT. INSTALL DRYER VENT TERMINATION AT BUILDING EXTERIOR. DRYER VENT TERMINATION SHALL BE MADE MINIMUM 12" ABOVE GRADE. SEAL AROUND OPENINGS AIR/WATER TIGHT WITH FIRE RESISTANT/NON-COMBUSTIBLE MATERIAL.
- ROUTE NEW 4"Ø RIGID DRYER DUCTS (2) THRU EXISTING OPENING UNDER BAY WINDOW WITH DRYER VENT TERMINATION AT EXTERIOR, MINIMUM 12" ABOVE GRADE. PROVIDE A NON-COMBUSTIBLE COVER OVER EXISTING WALL OPENING TO SEAL AROUND DRYER VENT PENETRATIONS. PAINT COVER TO MATCH EXISTING.
- PROVIDE AND INSTALL NEW RECESSED DRYER VENT BOX (ALUMINIZED STEEL BY "THE DRYERBOX" OR EQUAL) AT FLOOR LEVEL FOR DRYER VENT CONNECTION. ROUTE 4" RIGID DUCT FROM RECESSED BOX CONNECTION UP IN WALL CAVITY TO ELBOW ABOVE CEILING TO BUILDING EXTERIOR. SUPPORT DUCT AS REQUIRED. INSTALL DUCTWORK AND VENT BOX PER MANUFACTURERS REQUIREMENTS. ALL DUCTWORK SHALL BE RIGID METAL. SEAL ALL JOINTS AS REQUIRED. MODIFY, PATCH AND REPAIR WALLS AS REQUIRED FOR NEW DUCT INSTALLATION TO MATCH EXISTING.
- INSTALL NEW INTAKE LOUVER AT EXISTING WALL OPENING. CONNECT TO AND ROUTE NEW DUCTWORK AS SHOWN FROM LOUVER.
- ROUTE 14/12 DUCT ABOVE SUSPENDED CEILING TO AVOID INTERFERENCES. TO 14/10 DOWN IN WALL CAVITY WITH NEW INTAKE GRILLE. 12" A.F.F. IN LAUNDRY ROOM.
- INSTALL NEW 24/10 INTAKE LOUVER IN EXTERIOR WALL. TOP OF LOUVER BELOW FIRST FLOOR LEVEL. PROVIDE NEW PENETRATION, FIELD VERIFY LOCATION AND SIZE TO AVOID INTERFERENCES. SEAL OPENING AIR/WATER TIGHT.

DIFFUSER/GRILLE/REGISTER SCHEDULE						
MARK	TYPE	INLET SIZE	PANEL SIZE	CFM RANGE	MANUFACTURER & MODEL	REMARKS
(A)	SUPPLY GRILLE	-	12 X 12	0-530	TITUS 300	

LOUVER SCHEDULE						
TAG	SERVICE	SIZE (W X H)	SF FREE AREA	FACE VEL. (FPM)	MFGR./MODEL NO.	REMARKS
L-1	DRYER INTAKE	14 X 12	0.35	-	GREENHECK ESD-403	(1)
L-2	DRYER INTAKE	24 X 10	0.6	-	GREENHECK ESD-403	(1)
(1)	BIRDSCREEN					

**PRELIMINARY - NOT FOR CONSTRUCTION**



**Olander Engineering, Inc.**  
227 E. Main Street \* Carnegie, PA 15106  
Ph: (412) 279-1810 Fax: (412) 279-1865  
e-mail: jolander@olanderengineering.com

<b>OWNER</b> HOUSING AUTHORITY OF THE CITY OF PITTSBURGH DEVELOP & MODERNIZATION DEPT. 100 ROSS STREET PITTSBURGH, PA 15219 Phone (412) 458-9220	<b>PROJECT TEAM</b> D&D ENGINEERING, INC. 35 WILSON STREET ETNA TECHNICAL CENTER, SUITE 205 PITTSBURGH, PA 15223 Phone (412) 784-1560 Fax: (412) 784-1561
---	--

10		
9		
8		
7		
6		
5		
4		
3		
2		
1		
NO.	BY	DATE
		DESCRIPTION
		REVISIONS

**LAUNDRY ROOM CODE COMPLIANCE**  
**MORSE GARDENS HIGH-RISE**  
D & D ENGINEERING, INC. CONSULTING ELECTRICAL ENGINEERS  
DRAWING TITLE:  
**PLANS, NOTES, SYMBOLS, LEGENDS, SCHEDULES**

PROJECT NO. ????	DRAWING NUMBER <b>H1</b>
DATE 05.06.15	SHEET NUMBER 1 OF 1
SCALE AS SHOWN	
DRAWN BY JAO	
CHECKED BY JAO	