
















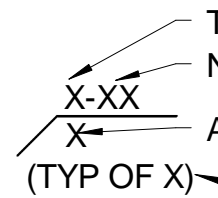
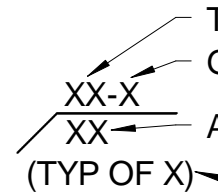
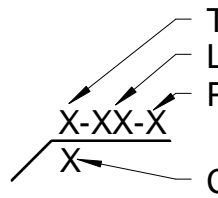
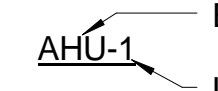
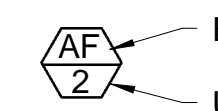




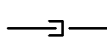
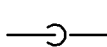


EQUIPMENT ABBREVIATIONS	
SYMBOL	DESCRIPTION
AC	AIR COMPRESSOR
ACCU	AIR COOLED CONDENSING UNIT
ACU	AIR CONDITIONING UNIT
AD	AIR DRYER
AF	AIR FILTER
AFMS	AIR FLOW MEASURING STATION
AHU	AIR HANDLING UNIT
AHX	AIR TO AIR HEAT EXCHANGER
AS	AIR SEPARATOR
BT	BUFFER TANK
CC	CHILLED WATER COIL
CO	CLEAN OUT
COMP	COMPRESSOR
COND	CONDENSER
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CUH	CABINET UNIT HEATER
DDC	DIRECT DIGITAL CONTROL (PANEL)
DFC	DRY FLUID COOLER
DX	DIRECT EXPANSION (COOLING COIL)
EF	EXHAUST FAN
EXP	EXPANSION TANK
ERV	ENERGY RECOVERY VENTILATOR
EVAP	EVAPORATOR
FC	FAN COIL
GF	GLYCOL FEEDER
GV	GRAVITY VENTILATOR
GWH	GAS WATER HEATER
H	HUMIDIFIER
HC	HEATING CONNECTORS
HW	HEAT WHEEL
HWC	HEATING WATER COIL
HX	HEAT EXCHANGER
IR	INFRARED HEATERS
LCP	LOCAL CONTROL PANEL
MAU	MAKE UP AIR UNIT
MX	THERMOSTATIC MIXING VALVE
P	PUMP
RC	REHEAT COIL
RF	RELIEF FAN
RTU	ROOF TOP UNIT
SAT	SOUND ATTENUATOR
SP	SUPPLY FAN
SP	SUMP PUMP
ST	STORAGE TANK
UH	UNIT HEATER
V	VALVE
VAV	VARIABLE AIR VOLUME TERMINAL BOX
VAVU	VARIABLE VOLUME PUMP
WH	GEO THERMAL HOT WATER HEATER
WHX	WATER TO WATER HEAT EXCHANGER
WS	WATER SOFTENER
WW	GEO THERMAL WATER SOURCE HEAT PUMP

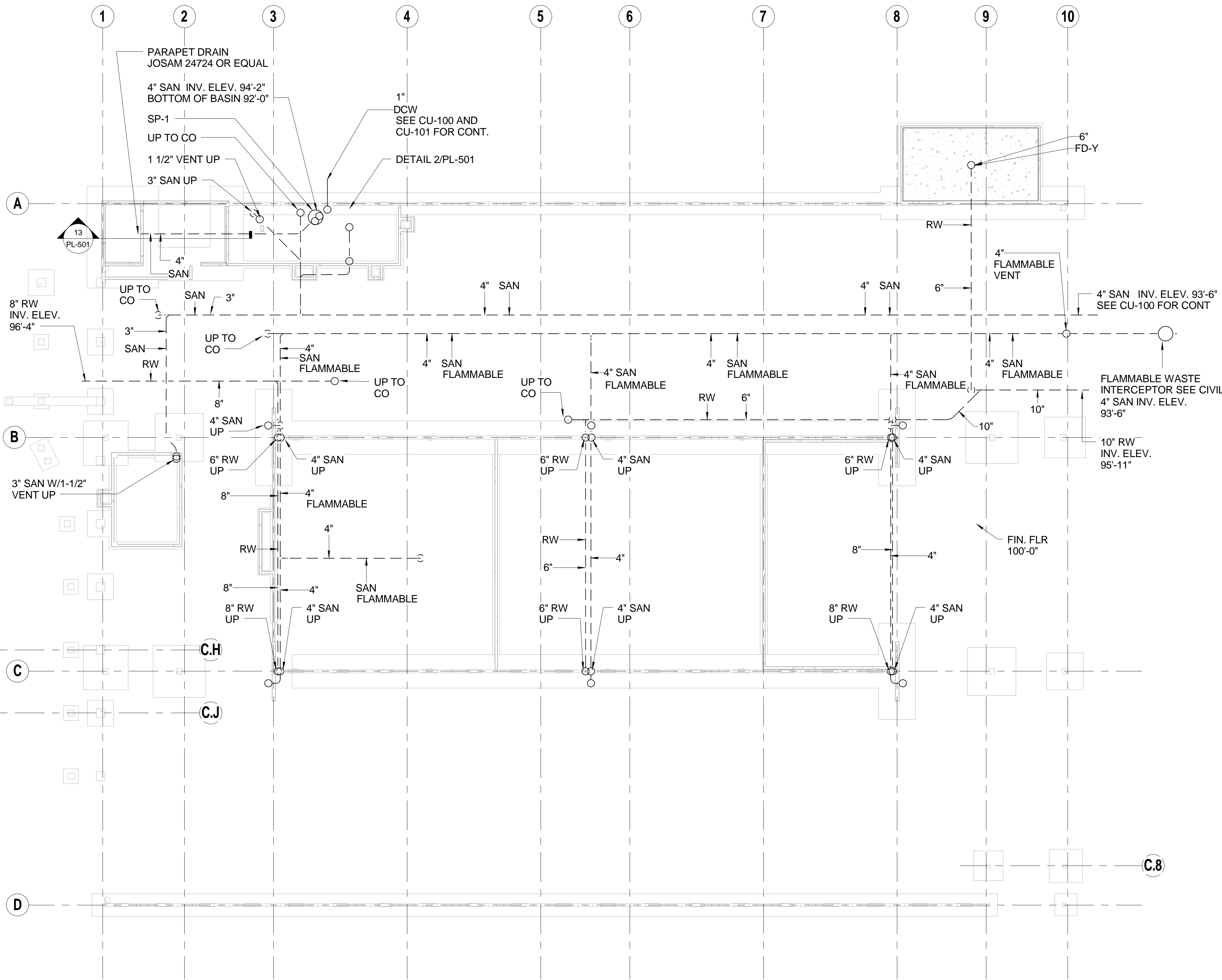
	4" RD-1	TYPE (SEE SPECIFICATION)
	4" ORD-1	TYPE (SEE SPECIFICATION)
	4" VTR-1	TYPE (SEE SPECIFICATION)
		STRAINER
		STEAM TRAP
		THERMOMETER
		UNION
		WH
		EXPANSION JOINT

MECHANICAL ANNOTATION	
SYMBOL	DESCRIPTION
	<u>PLUMBING</u>
---	COLD WATER (CW)
-D-	CONDENSATE, CONDENSER DRAIN
---	HOT WATER (HW)
-G-	NATURAL GAS (FIRM)
---	RECIRCULATING HOT WATER (RHW)
-SAN	SANITARY ABOVE GRADE
--- -SAN---	SANITARY BELOW GRADE
--- -V---	SANITARY VENT
-A-	COMPRESSED AIR
-RW-	RAIN WATER ABOVE GRADE
--- -RW---	RAIN WATER BELOW GRADE
	<u>MECHANICAL</u>
-SV	STEAM VENT
-MPS	MEDIUM PRESSURE STEAM
-MPR	MEDIUM PRESSURE CONDENSATE
-SV	STEAM VENT
-CH	CHILLED WATER SUPPLY
-CHR	CHILLED WATER RETURN
-GH	GLYCOL WATER HEATING SUPPLY
-GHR	GLYCOL WATER HEATING RETURN
-PC	PUMPED CONDENSATE

	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	MOTOR OPERATOR
	ELECTRIC OPERATOR
	SOLENOID OPERATOR
	FLOW VENTURI
	BACKFLOW PREVENTER
	AUTOMATIC AIR VENT

	TYPE (SEE SCHEDULE) NECK SIZE AIR FLOW RATE (TYP OF X) TYPICAL OF X	DIFFUSER TAG
	TYPE (SEE SCHEDULE) GRILLE/REGISTER SIZE AIR FLOW RATE (TYP OF X) TYPICAL OF X	GRILLE & REGISTER TAG
	TYPE (SEE SCHEDULE) LENGTH PLENUM INLET SIZE CFM	LINEAR DIFFUSER TAG
	EQUIPMENT TYPE UNIT NUMBER	EQUIPMENT TAG
	EQUIPMENT TYPE UNIT NUMBER	CONTROL TAG
	WALL MOUNTED THERMOSTAT/TEMPERATURE SENSOR	
	WALL MOUNTED SWITCH	
	WALL MOUNTED CARBON MONOXIDE SENSOR	
	WALL MOUNTED CARBON DIOXIDE SENSOR	
	RECTANGULAR DUCT DOWN	
	ROUND DUCT DOWN	

11. ALL VERTICAL PIPING SUBJECT TO VEHICULAR DAMAGE SHALL BE PROTECTED. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.



1 PLUMBING PLAN - UNDERGROUND
PL-100 1/16" = 1'-0"

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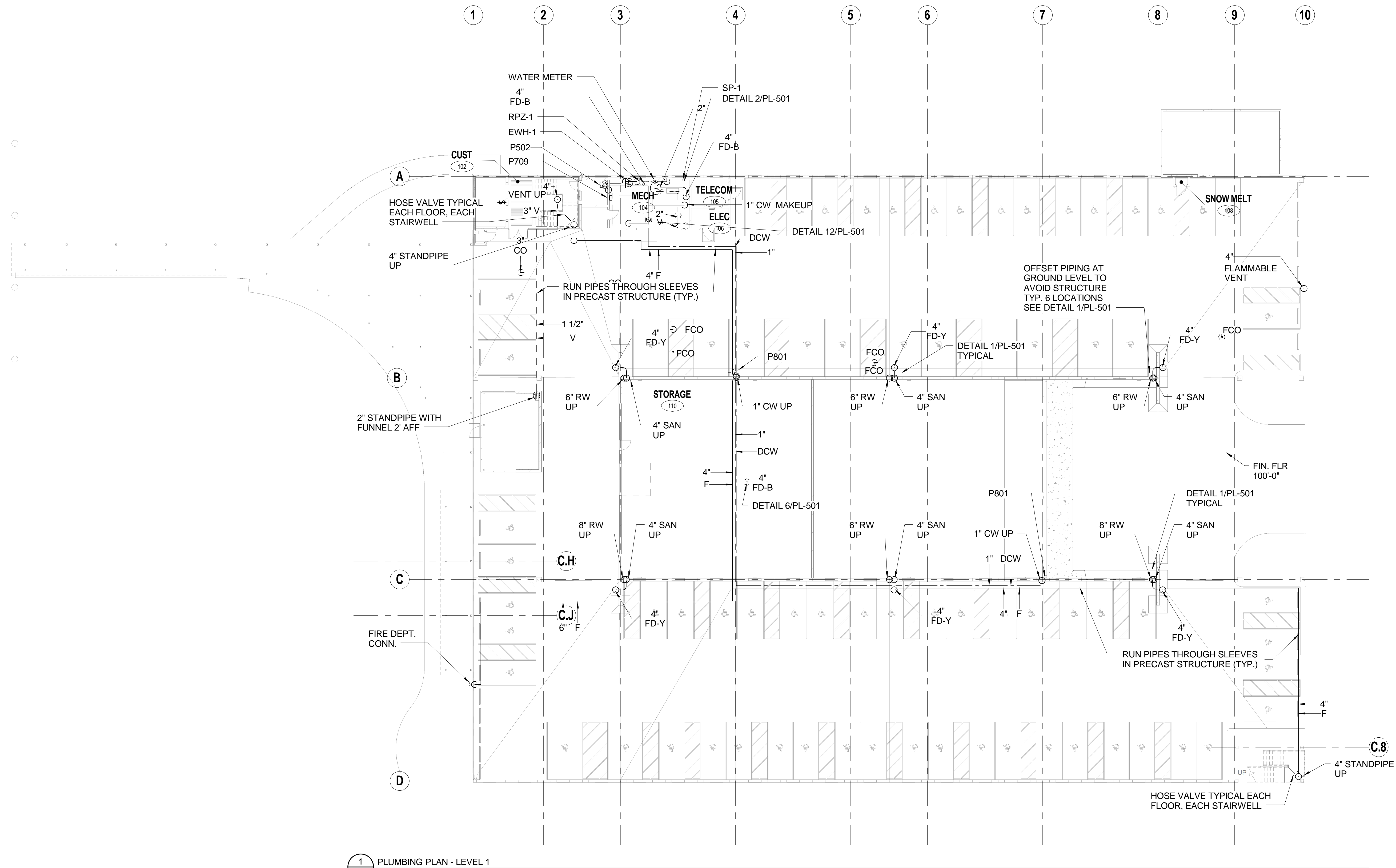
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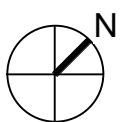


GENERAL PLUMBING NOTES:

1. ALL SANITARY BUILDING DRAIN AND STORM PIPING SHALL BE RUN BELOW THE FLOOR OF THE PLAN ON WHICH IT IS SHOWN, EXCEPT AS NOTED OTHERWISE.
2. WATER AND VENT PIPING SHALL BE RUN TIGHT TO STRUCTURE OF THE PLAN ON WHICH IT IS SHOWN, EXCEPT AS NOTED OTHERWISE.
3. PLUMBING CONTRACTOR TO COORDINATE LOCATIONS OF ALL DRAINS WITH ARCHITECT, STRUCTURAL AND PRECAST CONTRACTOR.
4. PLUMBING FIXTURES LABELED P502, P709, FOR EXAMPLE, REFER TO ITEMS LISTED IN THE SPECIFICATIONS AND THE FIXTURE SCHEDULE ON THE DRAWINGS.
5. INVERT ELEVATIONS ARE REFERENCED TO FINISHED FLOOR ELEVATION OF 100'-0".
6. ALL PLUMBING PIPES SHOWN LEAVING THE BUILDING SHALL CONNECT TO PIPING APPROXIMATELY 5'-0" AWAY FROM THE BUILDING. REFER TO CIVIL DRAWINGS FOR CONT.
7. PLUMBING VENT THRU ROOF SHALL BE LOCATED A MINIMUM OF 2'-0" FROM ANY WALL OR VERTICAL SURFACE. A MINIMUM OF 10'-0" FROM FRESH AIR INTAKES.
8. ALL UTILITY TRENCHES EXITING THE BUILDING ARE TO BE BACKFILLED USING A CLAY TRENCH PLUG PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
9. ALL DRAINS SHALL BE TRACTOR GRADE.
10. DOMESTIC COLD WATER LINES FEEDING HOSE BIBBS SHALL BE PITCHED TO DRAIN BACK TO MECHANICAL ROOM. PROVIDE SYSTEM DRAIN AND ISOLATION VALVES IN MECHANICAL ROOM.
11. ALL VERTICAL PIPING SUBJECT TO VEHICULAR DAMAGE SHALL BE PROTECTED. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.



1 PLUMBING PLAN - LEVEL 1
1/16" = 1'-0"



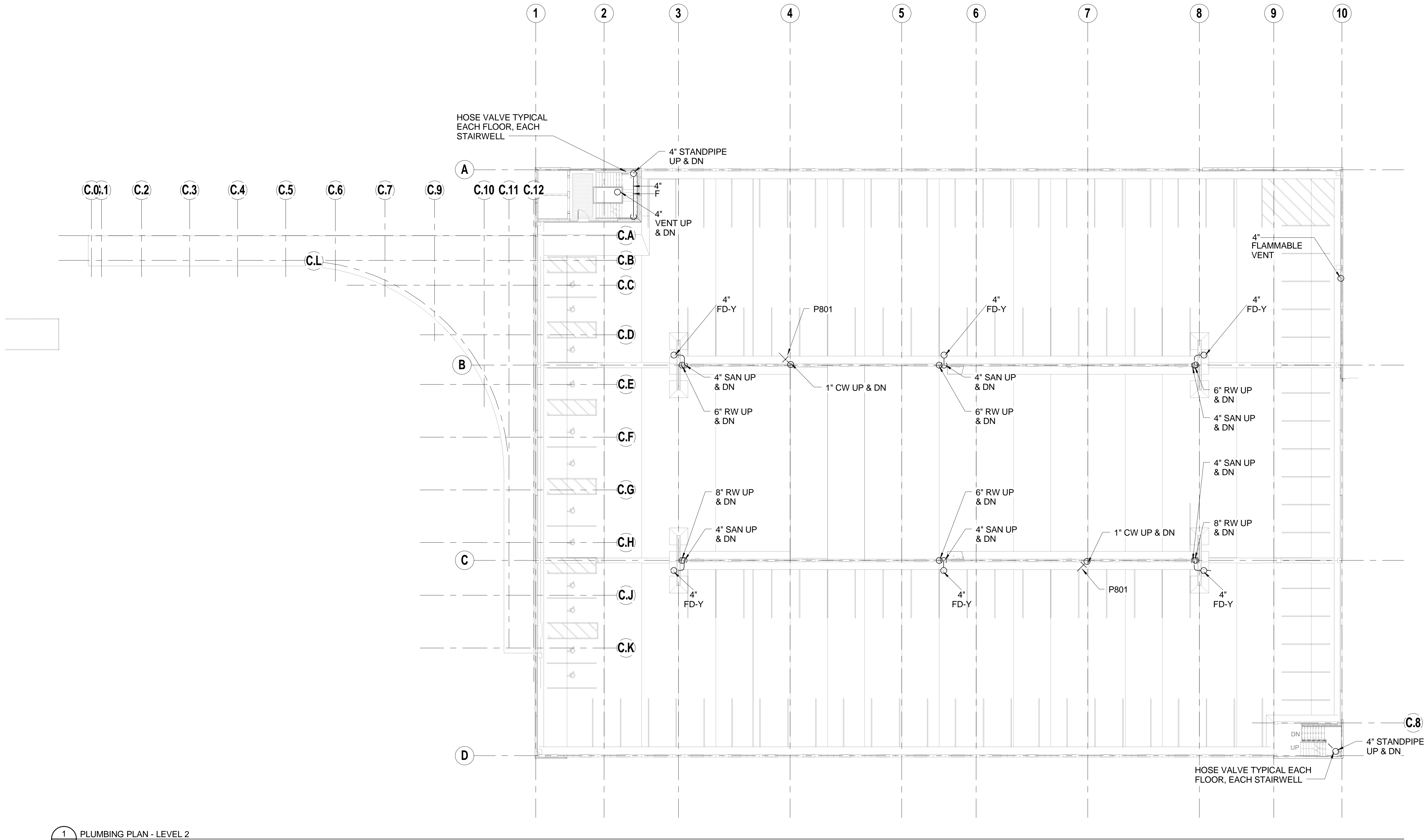
CONSTRUCTION DOCUMENTS

		<div>CONSULTANTS:</div> <div>SIGNAGE</div> <div>SIGNIA DESIGN</div> <div>2395 UNIVERSITY AVENUE W., SUITE 316</div> <div>SANT PAUL, MN 55114</div> <div>PHONE: 651-209-6254</div> <div>LANDSCAPE</div> <div>ANDERSON ENGINEERING</div> <div>13605 1ST AVENUE NORTH, SUITE 100</div> <div>PLYMOUTH, MN 55441</div> <div>PHONE: 763-412-4000</div>	<div>ARCHITECTS/ENGINEERS:</div> <div>LEO A DAILY</div> <div>PLANNING</div> <div>ARCHITECTURE</div> <div>ENGINEERING</div> <div>INTERIORS</div> <div>EST. 1995</div> <div>730 Second Avenue South, Suite 1100</div> <div>Minneapolis, MN 55402-2455 USA</div> <div>Tel 612-338-8741 Fax 612-338-4840</div> <div>Project #023-10131-000</div>	<div>Drawing Title:</div> <div>PLUMBING AND FIRE PROTECTION PLAN - LEVEL 1</div> <div>I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am duly licensed Professional Engineer under the laws of the State of Minnesota</div> <div>Signature: <i>Brian L. Benson</i></div> <div>Printed Name: BRIAN L. BENSON</div> <div>Date: 02-24-2012</div> <div>License: 20397</div>	<div>Project Title</div> <div>CONSTRUCT PARKING RAMP DESIGN</div>			<div>Project Number</div> <div>618-820</div>	<div>Office of Construction and Facilities Management</div> <div>Department of Veterans Affairs</div>
					<div>Building Number</div> <div>78</div>	<div>Drawing Number</div> <div>PL-101</div>	<div>Drawing 081 of 116</div>		
					<div>Location</div> <div>1 VETERANS DRIVE MINNEAPOLIS, MN 55417</div>				
					<div>Date</div> <div>02-24-2012</div>	<div>Checked</div> <div>BGB</div>		<div>Modeled</div> <div>GSP</div>	
<div>Revisions:</div>	<div>Date</div>								

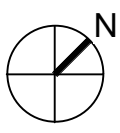
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

GENERAL PLUMBING NOTES:

1. ALL SANITARY BUILDING DRAIN AND STORM PIPING SHALL BE RUN BELOW THE FLOOR OF THE PLAN ON WHICH IT IS SHOWN, EXCEPT AS NOTED OTHERWISE.
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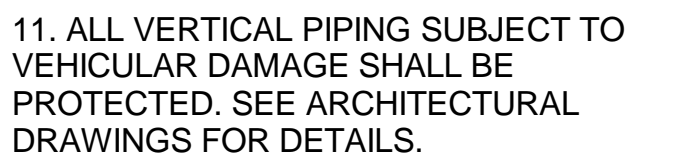


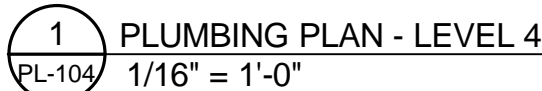
1 PLUMBING PLAN - LEVEL 2
PL-102 1/16" = 1'-0"



CONSTRUCTION DOCUMENTS

		CONSULTANTS: SIGNAGE SIGNIA DESIGN 2395 UNIVERSITY AVENUE W., SUITE 316 SAINT PAUL, MN 55114 PHONE: 651-209-6254 LANDSCAPE ANDERSON ENGINEERING 13605 1ST AVENUE NORTH, SUITE 100 PLYMOUTH, MN 55441 PHONE: 763-412-4000	ARCHITECTS/ENGINEERS: LEO A DALY PLANNING ARCHITECTURAL ENGINEERING INTERIORS EST. 1915 730 Second Avenue South, Suite 1100 Minneapolis, MN 55402-2455 USA Tel 612-338-8741 Fax 612-338-4840 Project #023-10131-000	Drawing Title: PLUMBING AND FIRE PROTECTION PLAN - LEVEL 2		Project Title CONSTRUCT PARKING RAMP DESIGN		Project Number 618-820		Office of Construction and Facilities Management	
				I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am duly licensed Professional Engineer under the laws of the State of Minnesota Signature: <i>Brian L. Benson</i> Printed Name: BRIAN L. BENSON Date: 02-24-2012 License: 20397		Building Number 78		Building Number 78			
						Location 1 VETERANS DRIVE MINNEAPOLIS, MN 55417		Drawing Number PL-102			
						Date 02-24-2012	Checked BGB	Modeled GSP	Drawing 082 of 116		
Revisions:	Date									Department of Veterans Affairs	

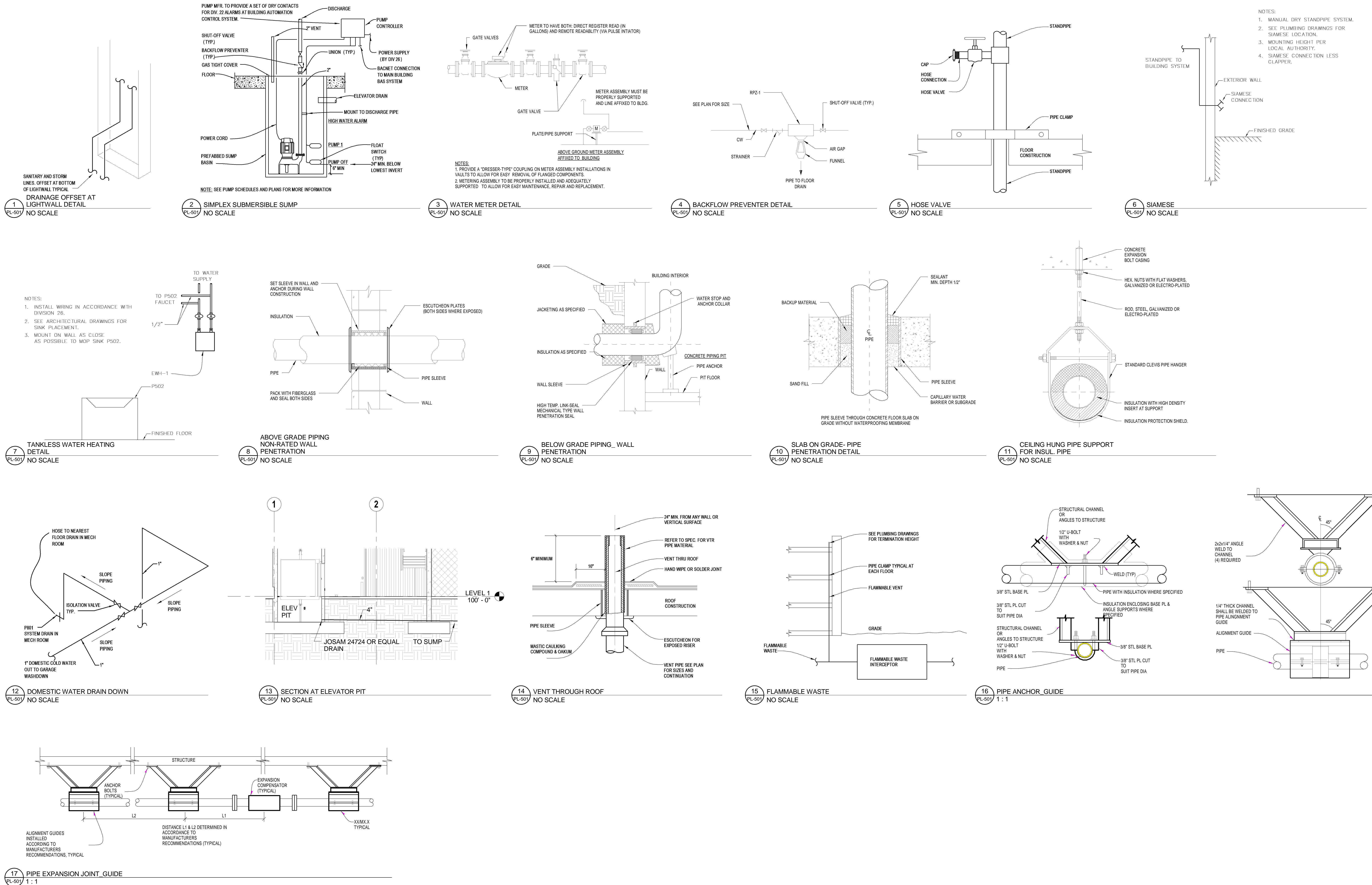
[illegible]



11. ALL VERTICAL PIPING SUBJECT TO VEHICULAR DAMAGE SHALL BE PROTECTED. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.

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three eighths inch = one foot
one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot
four inches = one foot
five inches = one foot
six inches = one foot
seven inches = one foot
eight inches = one foot
nine inches = one foot
ten inches = one foot
eleven inches = one foot
twelve inches = one foot
thirteen inches = one foot
fourteen inches = one foot
fifteen inches = one foot
sixteen inches = one foot
seventeen inches = one foot
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twenty eight inches = one foot
twenty nine inches = one foot
thirty inches = one foot
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eighty seven inches = one foot
eighty eight inches = one foot
eighty nine inches = one foot
ninety inches = one foot
ninety one inches = one foot
ninety two inches = one foot
ninety three inches = one foot
ninety four inches = one foot
ninety five inches = one foot
ninety six inches = one foot
ninety seven inches = one foot
ninety eight inches = one foot
ninety nine inches = one foot
one hundred inches = one foot



CONSTRUCTION DOCUMENTS

		CONSULTANTS:		ARCHITECTS/ENGINEERS:		Drawing Title: PLUMBING DETAILS		Project Title		Project Number		Office of Construction and Facilities Management	
		SIGNAGE		LEO A DALY		I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am duly licensed Professional Engineer under the laws of the State of Minnesota		CONSTRUCT PARKING RAMP DESIGN		618-820			
		SIGNIA DESIGN		PLANNING ARCHITECTURE ENGINEERING INTERIORS		Signature:		1 VETERANS DRIVE MINNEAPOLIS, MN 55417		Building Number			
		2395 UNIVERSITY AVENUE W., SUITE 316		EST. 1995		Printed Name: BRIAN L. BENSON		Date: 02-24-2012		Drawing Number		PL-501	
		SAINT PAUL, MN 55114		730 Second Avenue South, Suite 1100		License: 20397		MINNEAPOLIS, MN 55417		78			
		PHONE: 651-209-6254		Minneapolis, MN 55402-2455 USA									
		LANDSCAPE		Tel 612-338-8741 Fax 612-338-4840								Drawing 085 of 116	
		ANDERSON ENGINEERING		Project #023-10131-000									
		13605 1ST AVENUE NORTH, SUITE 100											
		PLYMOUTH, MN 55441											
		PHONE: 763-412-4000											
Revisions:		Date											

 Department of
Veterans Affairs

FIXTURE SCHEDULE

FIXT. NO.	DESCRIPTION	WASTE (IN)	VENT (IN)	OW (IN)	HW (IN)	NOTES
P502	SERVICE SINK	3"	1-1/2"	3/4"	3/4"	1
P709	EMERGENCY EYE WASH	---	---	---	---	1, 2
P801	HYDRANT	---	---	3/4"	---	
FD-B	FLOOR DRAIN	4"	2"	---	---	
FD-Y	FLOOR DRAIN	6"	N/A	---	---	3
RPZ-1	REDUCED PRESSURE ZONE VALVE	---	---	1"	---	

NOTES:

1. MEETS AMERICANS WITH DISABILITY ACT REQUIREMENTS
2. WALL MOUNTED PORTABLE MOUNT ADA HEIGHT
3. LESS TRAP

SUMP PUMP AND BASIN SCHEDULE

[illegible]

NOTES:

1. AUTOMATIC FLOAT SWITCH. (NO PIGGYBACKS)
2. 10'-0" POWER CORD.

WATER HEATER SCHEDULE

[illegible]

NOTES:

- 1.

CONSTRUCTION DOCUMENTS

[illegible]