

KEY OF SYMBOLS

NOTE: THE KEY OF SYMBOLS INDICATED IS FOR CONVENIENCE ONLY AND ITEMS INDICATED ARE NOT NECESSARILY WITHIN THE SCOPE OF THE WORK.

	SOIL OR WASTE PIPING (S) (W)	A.B.D.	AUTOMATIC BALL DRIP
	SOIL OR WASTE PIPING BELOW GROUND	A.D.	ACCESS DOOR
	LEADER (L) (LDR)	A. DR.	AREA DRAIN
	INDIRECT WASTE	B.T.	BATH TUB
	VENT PIPING	C.D.	CANOPY DRAIN
	EXISTING PIPING TO BE REMOVED	CLG.	CEILING
	EXISTING PIPING TO REMAIN	C.O.	CLEANOUT
	COLD WATER PIPING (C.W.)	C.O.D.P.	CLEAN OUT DECK PLATE
	HOT WATER PIPING (H.W.)	C.V.	CHECK VALVE
	HOT WATER CIRCULATING PIPING (H.W.C.)	C.V.B.	CHECK VALVE BOX
	GAS PIPING (G)	D.I.	DROP INLET
	BALL VALVE	D.F.	DRINKING FOUNTAIN
	BALANCING VALVE	DN.	DOWN
	GATE VALVE (G.V.)	EL.	ELEVATION
	LOCKSHIELD VALVE (GLOBE VALVE)	E.W.C.	ELECTRIC WATER COOLER
	PLUG COCK	F.A.I.	FRESH AIR INLET
	CHECK VALVE (C.V.)	F.D.	FLOOR DRAIN
	HOSE BIBB (H.B.) SILL COCK (S.C.)	FL. DR.	FLOOR DRAIN
	VACUUM BREAKER (V.B.)	F.F.D.	FUNNEL DRAIN
	PRESSURE RELIEF VALVE PRESS. & TEMP. RELIEF VALVE	FL.	FLOOR
	PRESSURE REGULATING VALVE	F.O.	FLOOR OUTLET
	STRAINER	F.U.	FIXTURE UNITS
	"P" TRAP FOR LAV., SINK, ETC.	F.V.	FLUSH VALVE FLUSHOMETER
	CLEANOUT DECK PLATE (C.O.D.P.)	G.V.	GATE VALVE
	SHOCK ABSORBER	H.C.	HUNG CEILING
	ANCHOR	H.R.	HOSE RACK
	GUIDE	INV.	INVERT
	PRESSURE GAUGE	LAV.	LAVATORY
	THERMOMETER	MH.	MANHOLE
	TEMPERATURE REGULATOR	M.S.	MOP SINK
	WALL HYDRANT (W.H.)	N.I.C.	NOT IN CONTRACT
	YARD HYDRANT (Y.H.) (D.H.)	O.S.&Y.	OUTSIDE SCREW & YOKE
	PIPING COVERED WITH ELECTRIC HEAT TRACING CABLE AND INSULATION	P.C.	PLUG COCK
	UNION CONNECTION	P.O.	PLUGGED OUTLET
	EXPANSION JOINT	R.P.B. F.P.	REDUCED PRESSURE BACKFLOW PREVENTER
		R.D.	ROOF DRAIN
		R.T.	RUNNING TRAP
		R.C.V.	RISER CONTROL VALVE
		S.P.O.	SOIL PLUGGED OUTLET
		S.H.	SHOWER HEAD
		SH.- SHWR.	SHOWER
		SK.	SINK
		S.S.	SERVICE SINK
		S.E.	SEWAGE EJECTOR
		T.D.	TERRACE DRAIN
		T.E.	TERRACE ELEVATION
		T.P.	TRAP PRIMER
		T.S.	TAMPER SWITCH
		UR.	URINAL
		U.O.S.W.	UNDER ANOTHER SECTION OF THE WORK
		VAL. O. V.O.	VALVED OUTLET
		V.T.R.	VENT THRU ROOF
		V.P.O.	VENT PLUGGED OUTLET
		W.C.	WATER CLOSET

PLUMBING INSTALLATION CRITERIA

EACH BIDDER SHALL VISIT THE SITE AND BECOME INFORMED AS TO THE CONDITION OF THE PREMISES AND THE EXTENT AND CHARACTER OF WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE APPROVED DUE TO FIELD CONDITIONS.

- PROVIDE ROUGH-IN AND FINAL CONNECTIONS FOR ALL PLUMBING FIXTURES INCLUDING WASTE, VENTS, HOT AND COLD WATER, AND PROVIDE ALL PLUMBING WORK NECESSARY TO MAKE THE PANTRY, ELECTRIC WATER COOLER(S) BATH, ETC. ENTIRELY OPERABLE AND ACCEPTABLE TO LOCAL HEALTH AND BUILDING OFFICIALS.
- PLUMBING CONTRACTOR SHALL LOCATE ALL PIPING AND PLUMBING ROUGH-IN FOR PLUMBING FIXTURES IN ACCORDANCE WITH ROUGH-IN DRAWINGS PROVIDED BY EQUIPMENT MANUFACTURERS.
- ALL VISIBLY EXPOSED PIPE TO EQUIPMENT SHALL BE CHROME PLATED BRASS.
- PROVIDE SHUT-OFF VALVES FOR EACH PLUMBING FIXTURE AND PIECE OF EQUIPMENT.
- PROVIDE TRAPS ON ALL WASTE PIPING FROM PLUMBING FIXTURES AND PIECE OF EQUIPMENT.
- COORDINATE POSITION OF SLEEVES AND OPENINGS THROUGH FLOOR WITH THE GENERAL CONTRACTOR.
- PROVIDE VACUUM BREAKERS AND CHECK VALVES FOR THE PLUMBING FIXTURES WHERE AND WHEN REQUIRED BY CODE.
- ALL PIPING AND EQUIPMENT SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE. HANGER AND SUPPORTS SHALL BE SPECIFICALLY APPROVED FOR USE IN PLUMBING SYSTEMS.
- WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF HANGER RODS IN REQUIRED LOCATIONS, PROVIDE ADDITIONAL STEEL FRAMING AS REQUIRED AND APPROVED.
- NO PLUMBING PIPING SHALL BE HUNG FROM THE PIPING OF OTHER TRADES OR DUCTWORK. HANGERS SHALL BE OF HEAVY CONSTRUCTION, SUITABLE FOR THE SIZE OF PIPE TO BE SUPPORTED.
- PLUMBING FIXTURES TO BE APPROVED BY THE GENERAL CONTRACTOR AND INSTALLED BY THE PLUMBING CONTRACTOR. ID. PLUMBING FIXTURES SHALL BE AS SPECIFIED BY ARCHITECT.
- ALL PLUMBING FIXTURES SPECIFIED BY THE ARCHITECT. SEE ARCHITECTURAL DRAWINGS, SPECIFICATIONS, DETAILS AND ELEVATIONS OF THE PANTRY, BATH, ETC. FOR REQUIRED PLUMBING CONNECTIONS.
- ALL VENT AND BRANCH PIPES SHALL BE GRADED AND CONNECTED AS TO DRAIN BACK TO THE DRAINAGE PIPE BY GRAVITY.

308.5 Interval of Support

Pipe shall be supported in accordance with Table 308.5.

Exception: The interval of support for piping systems designed to provide for expansion/contraction shall conform to the engineered design in accordance with Section 316.1.

HANGER SPACING		
PIPING MATERIAL	MAXIMUM HORIZONTAL SPACING FEET	MAXIMUM VERTICAL SPACING FEET
Acrylonitrile butadiene styrene (ABS) pipe	4	10 ^a
Aluminum tubing	10	10
Steel pipe	10	10
Cast-iron pipe	10 ^b	10
Chlorinated polyethylene (CPE) pipe and tubing, 1 inch and smaller	3	10 ^b
Chlorinated polyethylene (CPE) pipe and tubing, 1 1/2 inches and larger	4	10 ^b
Copper or copper alloy pipe	10	10
Copper or copper alloy tubing, 1/2-inch diameter and smaller	6	10
Copper or copper alloy tubing, 1/2-inch diameter and larger	10	10
Chlorinated polyethylene (CPE) pipe 1 inch and smaller	3.5 ^b	10 ^b
Chlorinated polyethylene (CPE) pipe 1 1/2 inch and larger	4	10 ^b
Cross-linked polyethylene (PEX) pipe (PEX-AL/PEX) pipe	3.5 ^b	4
Lead pipe	Continuous	4
Polyethylene glycol dimethacrylate (PEGL) PEX pipe	3.5 ^b	4
Polyethylene of raised temperature (PE RT) pipe 1 inch and smaller	3.5 ^b	10 ^b
Polyethylene of raised temperature (PE RT) pipe 1 1/2 inch and larger	4	10 ^b
Polyethylene (PE) pipe or tubing 1 inch and smaller	3.5 ^b	10 ^b
Polyethylene (PE) pipe or tubing, 1 1/2 inches and larger	4	10 ^b
Polypyrrolone (PP) pipe	4	10 ^b
Stainless steel drainage systems	10	10 ^b
Steel pipe	10	10

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

a. The maximum horizontal spacing of cast-iron pipe hangers shall be increased to 10 feet where 10-foot lengths of pipe are installed.

b. For sizes 2 inches and smaller, a guide shall be installed midway between required vertical supports. Such guides shall prevent pipe movement in a direction perpendicular to the axis of the pipe.

DRAWING LIST		
SHEET	TITLE	SCALE
P-000	PLUMBING SYMBOLS, ABBREVIATIONS, NOTES AND DRAWING LIST	NTS
P-100	PLUMBING UNDERGROUND PLAN	1/8" = 1'-0"
P-101	PLUMBING 1ST FLOOR PLAN	1/8" = 1'-0"
P-102	PLUMBING ROOF PLAN	1/8" = 1'-0"
P-500	PLUMBING DETAILS	NTS
P-600	PLUMBING SCHEDULES	NTS
P-700	PLUMBING RISER DIAGRAMS	NTS

BUILDING DEPARTMENT PLUMBING NOTES

THE PLUMBING SYSTEMS (SANITARY, WASTE, VENT, STORM, AND WATER DISTRIBUTION) AND ALL ASSOCIATED EQUIPMENT WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE PLUMBING CODE. COMPLIANCE WITH THE FULL PROVISIONS OF ALL BUILDING AND PLUMBING CODE ACCESSIBILITY REQUIREMENTS AND PLUMBING FIXTURE FLOW REQUIREMENTS OF THE PLUMBING CODE.

- THE SANITARY SYSTEM SHALL BE PROVIDED IN FULL ACCORDANCE WITH THE GENERAL PROVISIONS OF SECTION PC301.
- THE MATERIALS USED IN THE PLUMBING SYSTEMS WILL BE PROVIDED IN FULL ACCORDANCE WITH SECTIONS PC302 AND PC303.
- EQUIPMENT HOOK-UP AND THE JOINING WILL BE FULL COMPLIANCE WITH SECTIONS PC605 AND PC705.
- THE INSTALLATION OF FIXTURES WILL BE IN FULL ACCORDANCE WITH PC CHAPTER 4.
- TRAPS FOR FIXTURES AND DRAIN LINES WILL BE PROVIDED AND CLEANOUTS INSTALLED IN FULL COMPLIANCE WITH SECTIONS PC412, PC708 AND PC CHAPTER 10.
- VERTICAL AND HORIZONTAL PIPING WILL BE HUNG AND SUPPORTED AS DIRECTED IN SPECIFICATIONS AND WITH THE FULL COMPLIANCE WITH SECTION PC308.
- THE WATER SUPPLY SYSTEMS OF THE SUBJECT BUILDING SHALL BE INSTALLED AND MAINTAINED IN FULL COMPLIANCE WITH PC CHAPTER 6.
- SHOCK ABSORBERS SHALL BE PROVIDED IN FULL COMPLIANCE WITH PC 604.9 WHERE ALL QUICK CLOSING VALVES ARE INSTALLED AND ALL EQUIPMENT CONTAINING QUICK CLOSING SOLENOID VALVES SUCH AS ICE MAKERS, COFFEE MACHINES, DISHWASHERS, CLOTHES WASHERS, ELECTRONIC OPERATED FLUSH VALVES AND FAUCETS, AND SHOWER MIXING VALVES THAT HAVE A SINGLE LEVER HANDLE.
- THE SANITARY DRAINAGE SYSTEM WILL BE SIZED AND INSTALLED IN FULL COMPLIANCE WITH PC CHAPTER 7.
- THE VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM OF THE SUBJECT BUILDING WILL BE INSTALLED IN FULL COMPLIANCE WITH SECTION PC702 & PC CHAPTER 9.
- THE STORM DRAINAGE SYSTEM AND PIPING WILL BE INSTALLED IN FULL COMPLIANCE WITH PC CHAPTER 11.
- ALL TRENCHING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC306.
- RAT PROOFING SHALL BE IN ACCORDANCE WITH SECTION PC304.
- TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR CONSTRUCTION PERSONNEL AS PER SECTION PC311.

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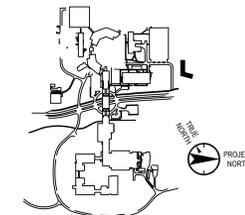
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Key Plan



No. Date Description

0	05.20.2022	ISSUED FOR PERMIT
1	06.20.2022	100% CONSTRUCTION DOCUMENTS
2	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Plumbing Drawn By: DH

PLUMBING SYMBOLS, ABBREVIATIONS, AND DRAWING LIST

Scale: NTS Floor: N/A

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

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P-000

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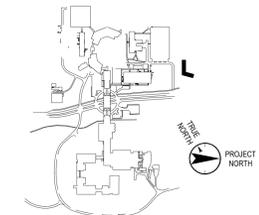
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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Plumbing **Drawn By:** DH
PLUMBING UNDERGROUND PLAN

Scale: 1/8" = 1'-0" **Floor:** UNDERSLAB

P-100

±24 L.F. 4" □ SOLID DRAIN PIPE, WITH BACKWATER CHECK VALVE, SLEEVE THRU BUILDING WALL DISCHARGE TO DI-10 AT INV. ±215.25, REFER TO CIVIL PLANS FOR STRUCTURE DETAILS

8" OUTGOING STORM, CONNECT TO EXISTING STORMWATER MANAGEMENT SYSTEM, INV EL 213.75'. PROVIDE CLEANOUT AT THE JUNCTION OF THE BUILDING STORM DRAIN AND STORM SEWER

NOTE: COORDINATE UNDERSLAB PIPING AND PENETRATIONS WITH STRUCTURAL - SEE STRUCTURAL DETAIL FOR VERTICAL PENETRATIONS (TYPICAL)

NOTE: UNDERSLAB PERFORATED PIPE SYSTEM FOR FOUNDATION DRAINAGE BY OTHERS

NOTE: ALL BELOW GRADE PIPING AWAY FROM THE BUILDING FOOTPRINT ARE TO BE ROUTED A MINIMUM OF 6 INCHES BELOW THE FROST LINE AND NOT LESS THAN 12 INCHES BELOW GRADE. UNDERSLAB PIPING TO BE PITCHED AT 1/8" PER FOOT.

DAMP PROOFING REQUIRED FOR FOUNDATION WALLS WHERE THE FOOTING DRAIN IS INSTALLED

±330 L.F. 6" □ PERFORATED PVC PERIMETER DRAIN PIPE INV ±213.75 (EAST SIDE)

±51 L.F. 4" □ SOLID PVC DRAIN PIPE, WITH BACKWATER CHECK VALVE, SLEEVE THRU BUILDING WALL, DISCHARGE TO DI-B-4 AT INV. ±215.00, REFER TO CIVIL PLANS FOR STRUCTURE DETAILS

NOTE: UNDERSLAB PERFORATED PIPE SYSTEM FOR FOUNDATION DRAINAGE BY OTHERS

PIPE, VE, 213.50, STRUCTURE

±127 L.F. 6" □ PERFORATED PVC PERIMETER DRAIN PIPE INV ±214.75 (TOP OF FOOTING, NORTH AND WEST SIDES ONLY)

4" □ PERFORATED PVC SUB-SLAB DRAINAGE PIPES, INV ±215.50

SUB-SLAB WATERPROOFING MEMBRANE REQUIRED FOR THE ENTIRE BUILDING

8" OUTGOING STORM, CONNECT TO EXISTING STORMWATER MANAGEMENT SYSTEM, INV EL 212.75'. PROVIDE CLEANOUT AT THE JUNCTION OF THE BUILDING STORM DRAIN AND STORM SEWER

8" SANITARY SEWER CONNECT TO EXISTING SEWER LATERAL, INV EL 212.50'. PROVIDE CLEANOUT AT THE JUNCTION OF THE BUILDING SANITARY DRAIN AND SANITARY SEWER

4" LEADER UP (TYPICAL) - PROVIDE INTERNAL HEAT TRACE ON PIPING ABOVE GROUND

1 UNDERGROUND PLUMBING PLAN
1/8" = 1'-0"

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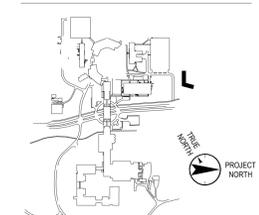
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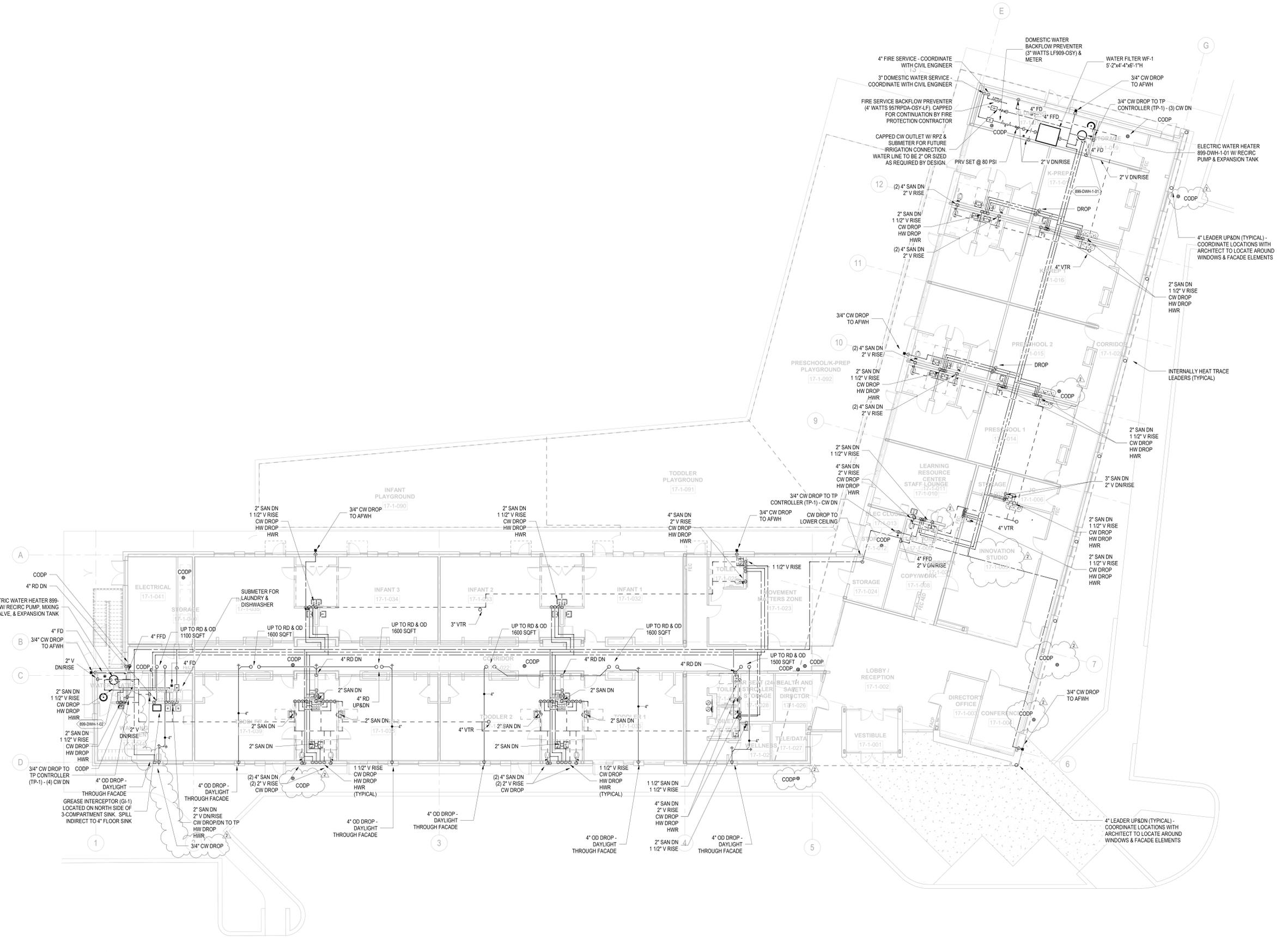
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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Plumbing
PLUMBING 1ST FLOOR PLAN

Scale: 1/8" = 1'-0" Floor: 1ST

P-101



1 LEVEL 1 PLUMBING PLAN
1/8" = 1'-0"

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

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P.L.E. BNA 300-3000-3000-000 - Regeneron, Day Care Facility, Tarrytown, NY 10591, T.T.C. Daycare, P. 2020-01 PLOTTED ON 10/25/21

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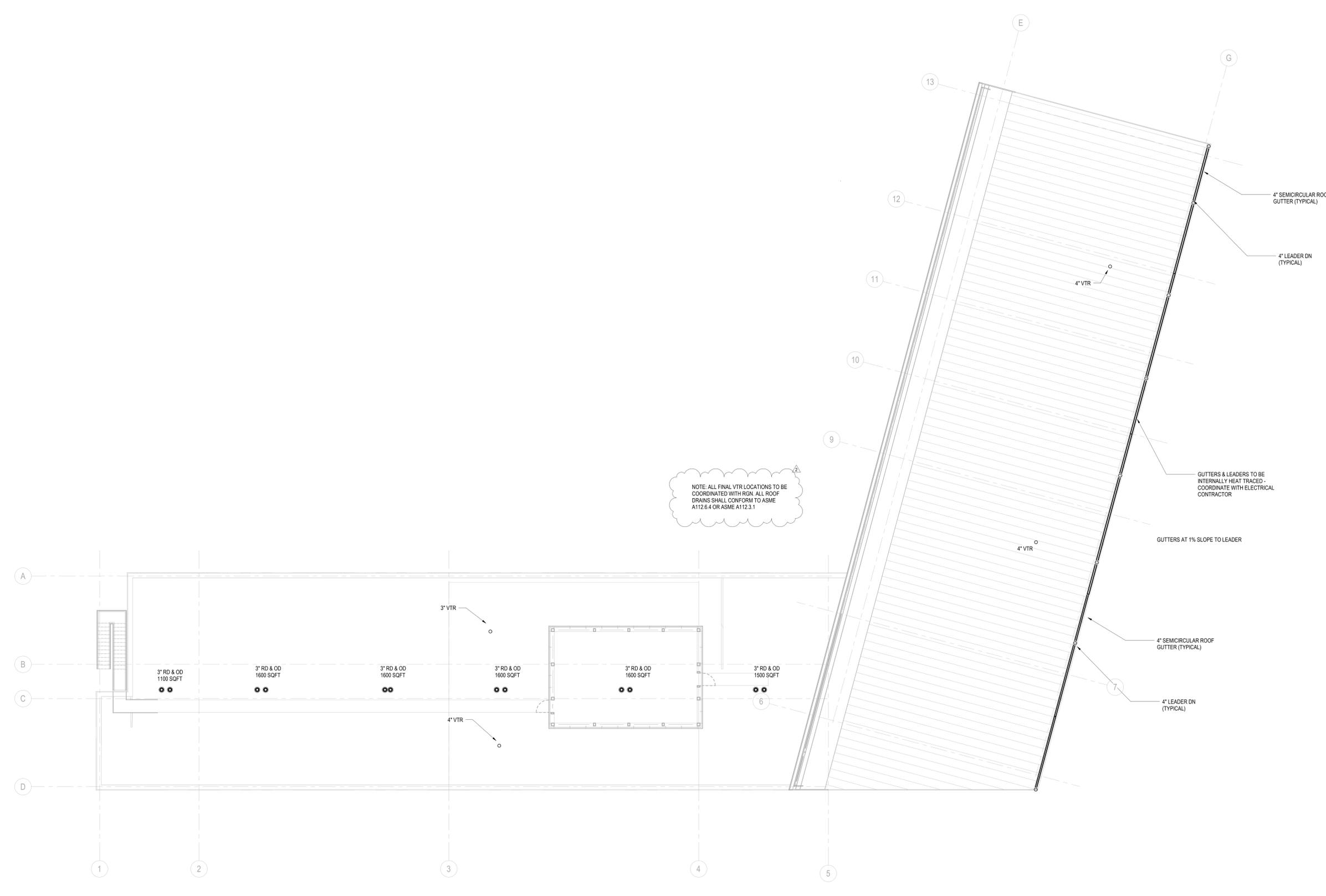
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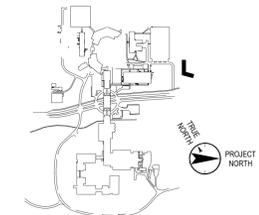
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NOTE: ALL FINAL VTR LOCATIONS TO BE COORDINATED WITH RGN. ALL ROOF DRAINS SHALL CONFORM TO ASME A112.6.4 OR ASME A112.3.1

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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Plumbing Drawn By: DH
PLUMBING ROOF PLAN

Scale: 1/8" = 1'-0" Floor: ROOF

P-102

1 ROOF PLUMBING PLAN
1/8" = 1'-0"

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777 Old Saw Mill River Road
Tarrytown, NY 10591-6707
T: 914.847.7400
F: 914.847.7991
www.regeneron.com

Building #17
Campus Expansion Child
Day-care Center

899 Old Saw Mill River Road
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

Architect

1700 Broadway, Suite 400
New York, NY 10019
(212) 492-1400 Phone
(212) 492-1472 Fax

Structural Engineer

Thornton Tomasetti
120 Broadway, 15th Floor
New York, NY 10021
(917) 661-7800 Phone
(917) 661-7801 Fax

MEP / IT / Security Engineer

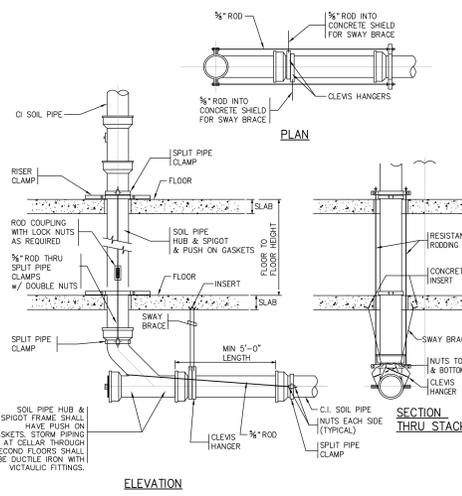
Cosentini Associates
498 Seventh Avenue
New York, NY 10018
(212) 615-3600 Phone
(212) 615-3700 Fax

Civil Engineer

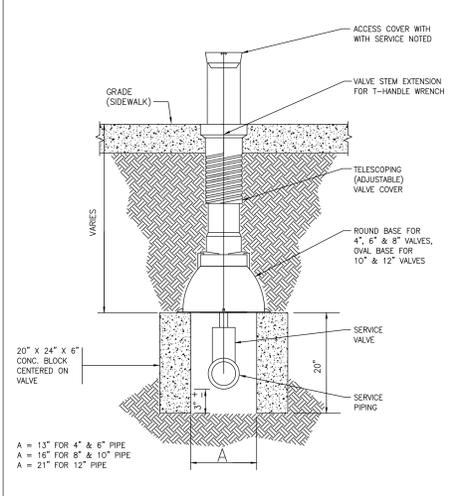
JMC
120 Bedford Road
Armonk, NY 10504
(914) 273-5225 Phone
(914) 273-2102 Fax

Landscape Architect

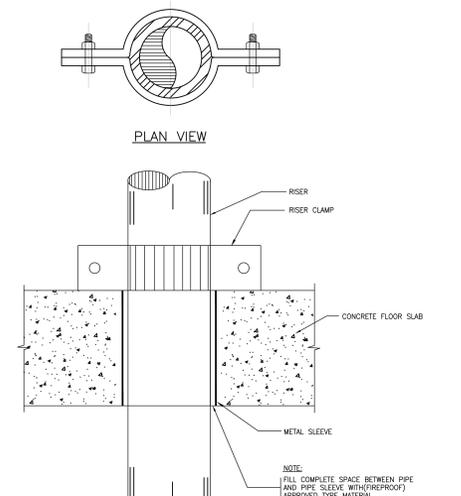
Langan
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
(212) 479-5400 Phone
(212) 479-5444 Fax



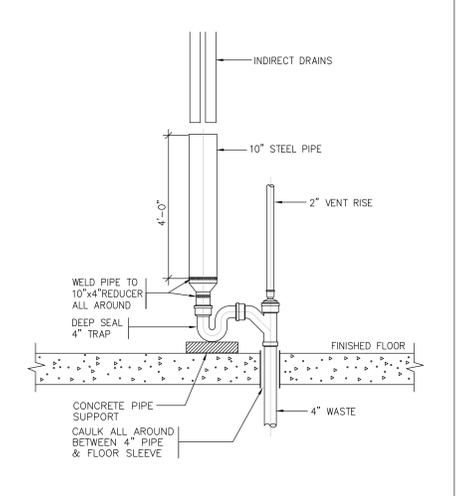
DETAIL OF PIPING AT BASE OF STACKS
BASE OF LEADERS SIMILAR
NO SCALE



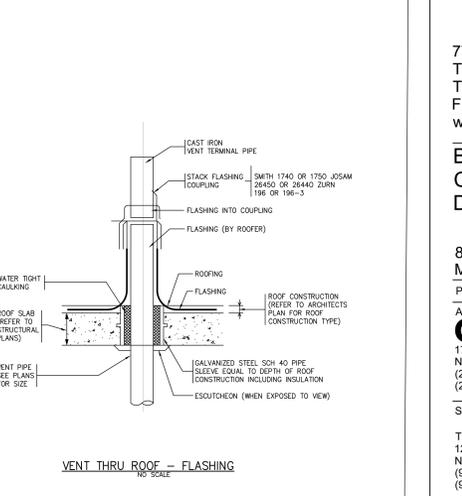
TYPICAL SERVICE VALVE BOX DETAIL
NOT TO SCALE



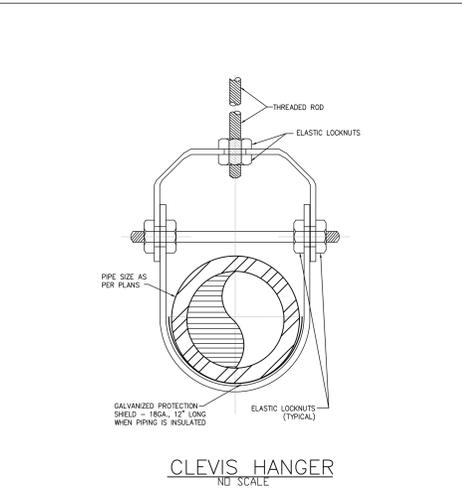
TYPICAL RISER ANCHOR DETAIL
NO SCALE



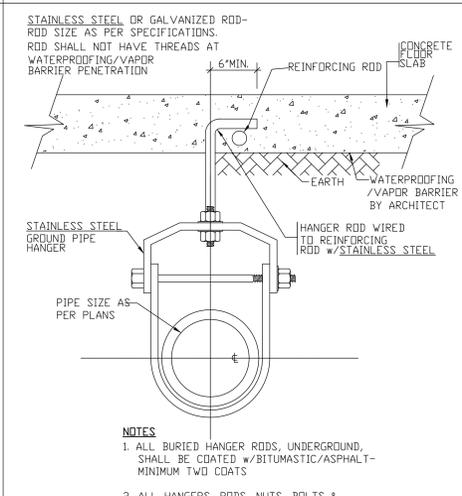
TYPICAL INDIRECT WASTE RECEPTOR
NO SCALE



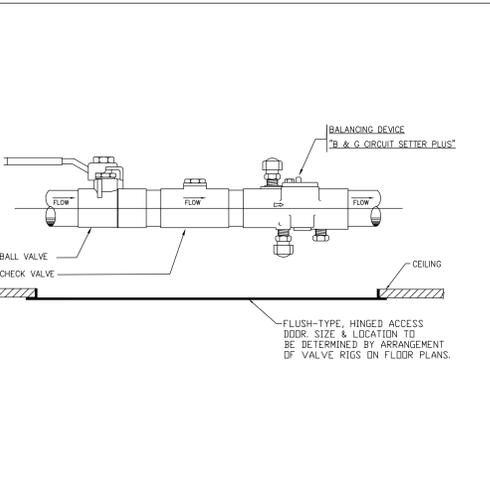
VENT THRU ROOF - FLASHING
NO SCALE



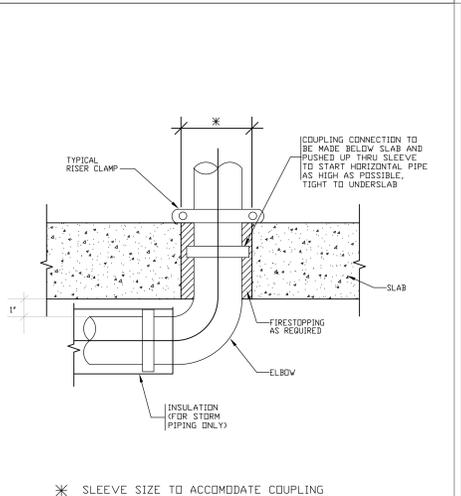
CLEVIS HANGER
NO SCALE



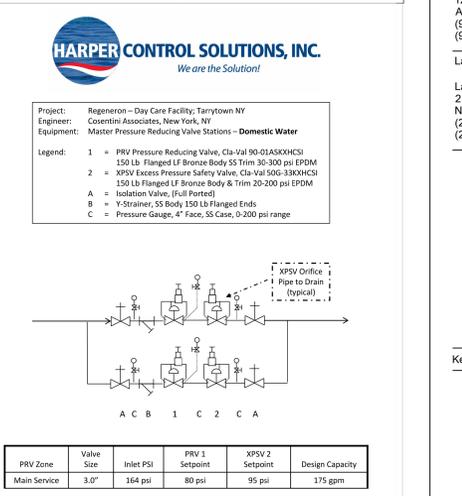
PIPE SUPPORT FOR
UNDERGROUND DRAINAGE PIPING
NOT TO SCALE



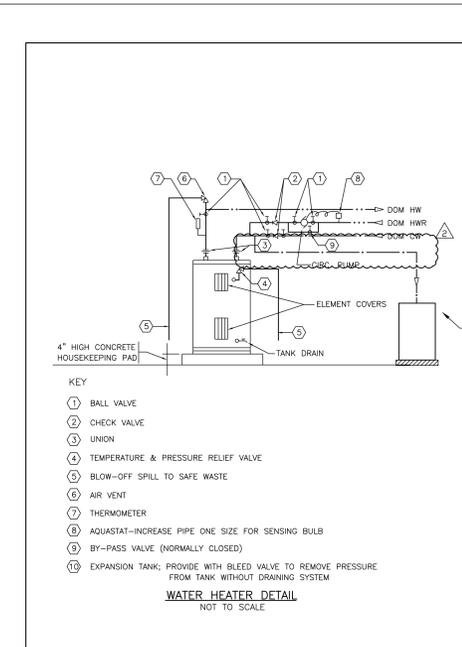
TYPICAL BALANCING VALVE RIG
NO SCALE



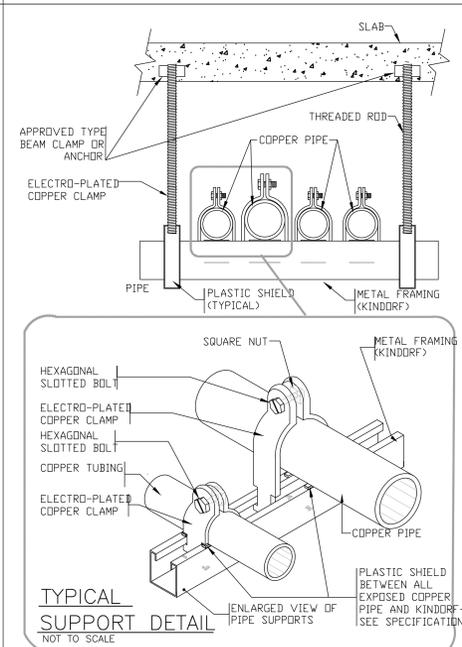
TYPICAL VERTICAL-TURN-HORIZONTAL
DRAIN PIPING DETAIL
NO SCALE



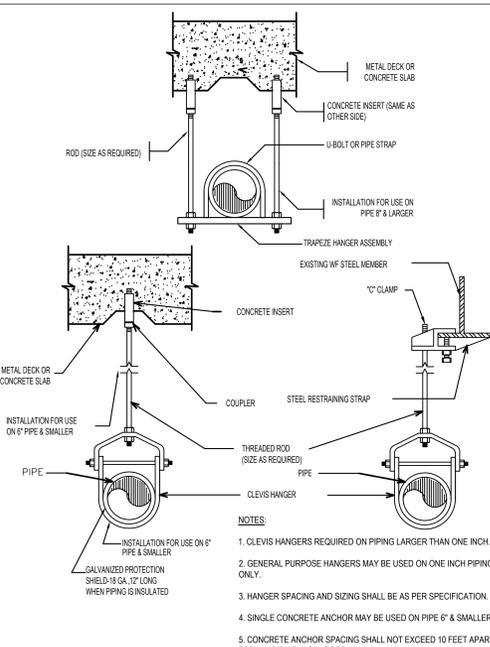
HARPER CONTROL SOLUTIONS, INC. | 1010 Washington Blvd, Stamford, CT 06901 | T: 203.964.1900 | F: 203.964.6100 | www.harpercontrols.com



WATER HEATER DETAIL
NOT TO SCALE



TYPICAL
SUPPORT DETAIL
NOT TO SCALE



FLOOR DRAIN TRAP
SEAL PROTECTION
NO SCALE

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No. Date Description

0	05.20.2022	ISSUED FOR PERMIT
1	06.20.2022	100% CONSTRUCTION DOCUMENTS
2	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Plumbing Drawn By: DH
PLUMBING
DETAILS

Scale: NTS Floor: N/A

P-500

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Tarrytown, NY 10591-6707
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Architect

Gensler

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Structural Engineer

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21 Penn Plaza, 360 West 31st Street, 8th Floor
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(212) 479-5400 Phone
(212) 479-5444 Fax

Main Line Fire Protection Corp.
Automatic Sprinkler Systems
500 Hudson Ave., New York, NY 10014
(212) 691-1100

Hydrant Flow Test Report

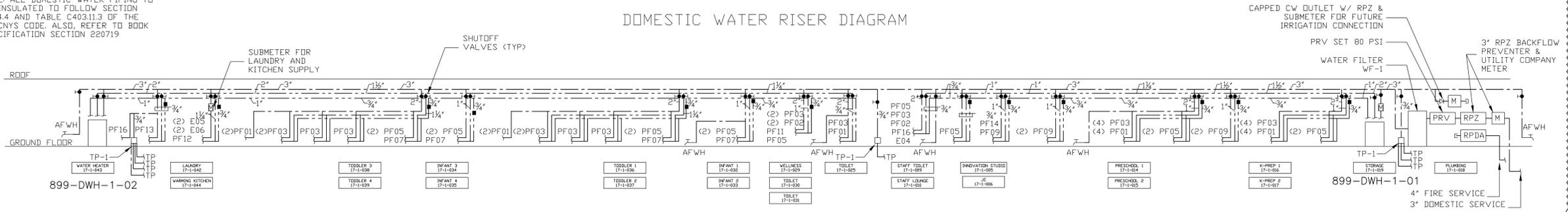
J&J TCC, INC.
J&J Location: Regeneron North Campus - Town of Mt Pleasant,
NY
Test Date: 11/5/2021
Control Hydrant Location: Outside loading dock building #
Elev Hydrant Location: 600 ft east of control hydrant.

Diffuser: 2.5
Static: 185 PSI
Residual: 125 PSI
Gallons per Minute: 1200 GPM
Should you have any questions feel free to call:
Steenly Yoon,
Michael Zwicko,
Michael Levitt.

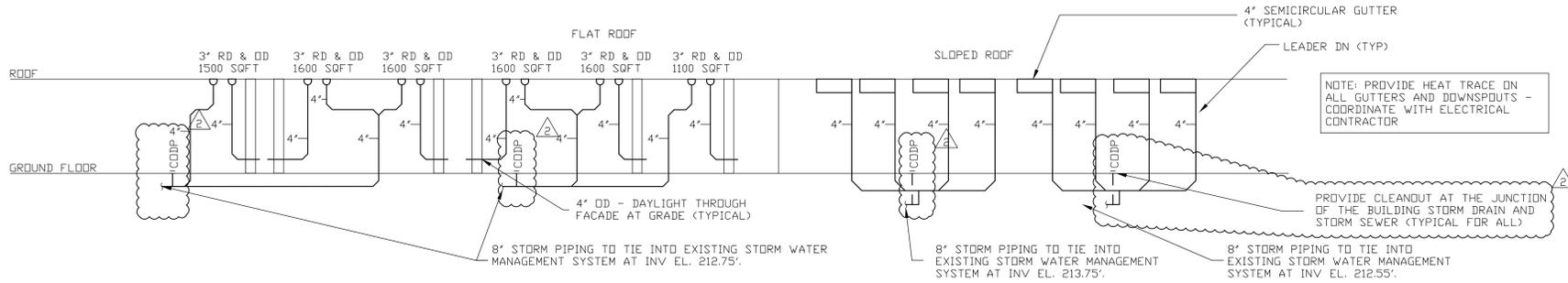
NOTE: SEE ARCHITECTURAL
DRAWING A-602 FOR PLUMBING
FIXTURE SCHEDULE

NOTE: ALL DOMESTIC WATER PIPING TO
BE INSULATED TO FOLLOW SECTION
C404.4 AND TABLE C403.11.3 OF THE
ECCNYS CODE. ALSO, REFER TO BOOK
SPECIFICATION SECTION 220719

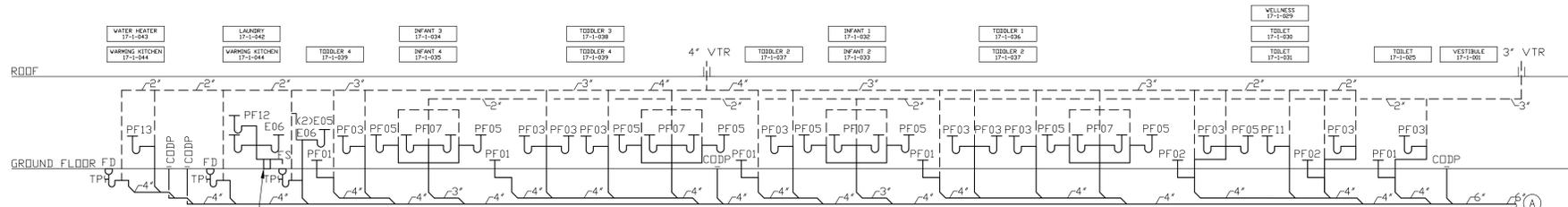
DOMESTIC WATER RISER DIAGRAM



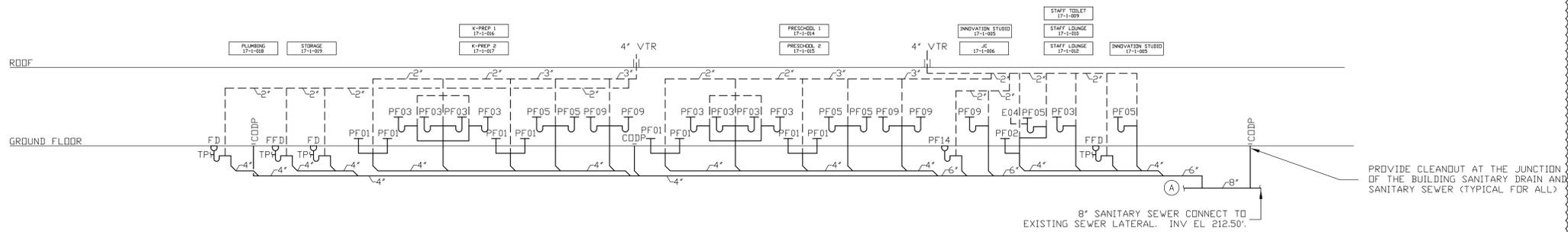
STORM RISER DIAGRAM



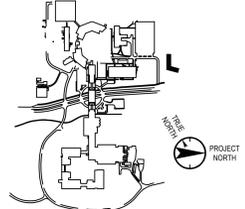
SANITARY RISER DIAGRAM - NORTH WING



SANITARY RISER DIAGRAM - EAST WING



Key Plan



No. Date Description

0	05/20/2022	ISSUED FOR PERMIT
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2	07/01/2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07/01/2022

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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Plumbing
PLUMBING
RISER DIAGRAMS

Scale: NTS Floor: N/A

P-700

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