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PLUMBING GENERAL NOTES

Contract Requirements

- All Plumbing Work Shall Be Prepared In Strict Accordance With The Specifications And With The Currently Adopted Edition Of The Prevailing State Code As Well As All Local Regulations That May Apply. In Case Of Conflict Between The Contract Documents And A Governing Code Or Ordinance The More Stringent Standard Shall Apply.
- Contractor Shall Provide All Required Labor, Materials, Equipment, And Services Necessary To Accomplish A Safe And Complete Installation Of The Systems Indicated On The Drawings. All Material And Methods Shall Be In Strict Accordance With All Authority Having Jurisdiction Requirements. Work Shall Be Performed In A Neat And Workmanlike Manner.
- Contractor Shall Obtain All Necessary Permits, Licenses, And Certificates Required By The Authority Having Jurisdiction. This Shall Include, But Is Not Limited To All Required Building Department Filing, Inspections, And Final Closeout Of Permits.
- The Scope Of Work As Outlined In These Documents Ends At A Distance Of 5 Feet Outside The Building Wall. Coordinate Connection With Civil Engineer And Local Utility Provider.
- The Contractor Shall Furnish A Written Guarantee To Replace Or Repair Promptly And Assume Responsibility For All Expenses Incurred For Any Workmanship And Equipment In Which Defects Develop Within One Year From The Date Of Acceptance By Owner. This Work Shall Be Done As Directed By The Owner. The Contractor Shall Incur All Expenses That Result From Such Work.
- Contractor Shall Visit The Site Prior To Submitting A Bid To Verify Existing Conditions And Confirm Sizes And Locations Of Existing Services.
- Provide All As-Built Drawings To GC To Verify Completion Of Work And For Owner's Record.

Coordination

- Existing Site Utility Connections, Invert Elevations, And Locations Shall Be Verified Prior To Beginning Installation.
- Materials Approved By The Architect Or Engineer To Be Stored On Site Shall Be Stored In An Owner Designated Location. Off Site Storage Must Be Arranged For Materials And Equipment Not Suitable For On Site Storage Or Items Not Applicable To The Current System Installation.
- At The End Of Each Work Day The Contractor Shall Leave The Job Site In A Neat Condition And Remove All Construction Debris From The Site.
- All Plumbing Work Shall Be Coordinated With All Other Trades Before Proceeding With The Installation. No Changes Are To Be Made In Plumbing Layout Without Written Permission by The Architect or Engineer.
- Drawings Are Diagrammatic As Shown. Exact Routing And Arrangements Of Systems Shall Be Coordinated With All Other Trades, The Structural Drawings, Architectural Drawings, And All Existing Field Conditions.
- Exact Dimensions And Locations Of Plumbing Fixture Rough-In Must Be Coordinated With The Architect And General Contractor.

General Installation

- All Exposed Piping Penetrations Through Walls, Floors, And Ceilings Shall Be Sealed With Approved Fire Proofing Method and Escutcheons By Plumbing Contractor.
- Provide And Install Water Tight Piping Sleeves And Seal Systems At Exterior Concrete Walls And Slabs On Grade For Service Piping Entries Into Building. Provide For Additional Waterproofing At Exterior Of POEs, Surrounding Piping / Sleeves As Necessarily With Approved Product.
- No Piping Shall Be Run Exposed In Finished Areas Unless Specifically Stated Otherwise In These Documents.
- Provide Dielectric Fittings, Couplings, Or Spacers Whenever Dissimilar Materials Are Joined Or Otherwise Come Into Contact With Each Other.
- Where Overhead Construction Does Not Permit Fastening Of Supports The Contractor Shall Provide Supplementary Steel Required For Supporting Piping Materials.
- Any Piping Exposed To Freezing Conditions Shall Be Insulated And Heat Traced, This Includes Any Sanitary Drainage Piping And Traps Installed In Unheated Spaces. Heat Traced To Be Installed By Plumbing Contractor And Coordinated With Electrical Contractor For Service.
- For Water and Gas Piping: Expansion Loops Or Fittings Shall Be Provided At All Building Expansion Joints And For Every 100 Feet Of Straight Piping Run. Provide Anchor Points And Restraints As Required By Manufacturer Installation Guidelines.

Plumbing Fixtures & Equipment

- All Fixtures Shall Be Provided With Standard Trap And Cleanout.
- All Plumbing Fixture Flow Rates Shall Meet Minimum Flow Requirements As Outlined By Governing Plumbing Code And Local Jurisdiction Amendments.
- Federal Lead Free Legislation Effective January 4, 2014 Mandates That The Wetted Surface Of Every Pipe, Fixture, And Fitting Sold Or Installed In Potable Water Applications Shall Not Contain More Than 0.25% Lead By Weight. All Products Submitted Shall Be Certified Lead-Free.
- Trap Primers Shall Be Furnished For All Drains Not Receiving Continuous Discharge. Where Practical, Flow Type Trap Primers Shall Be Installed On The Cold Water Supply To Lavatory Sinks. Electronic Trap Primers Shall Be Used In All Other Locations. Differential Pressure Trap Primers Are Not Permitted For Use Under Any Circumstances.

Domestic Water Systems

- All Work Shall Be Properly Tested, Balanced And Cleaned And Disinfected.
- Completely Insulate All Water Piping Except Where Exposed To Fixtures With Fiberglass Insulation With Non-Combustible UL Rated Vapor Barrier Or Closed Cell Flexible Insulation Equal To Armaflex II. Breaks In Insulation At Hangers Will Not Be Acceptable.
- Provide Shut-Off Valves On Hot And Cold Water Supply Pipes At Each Fixture, At Each Branch Take-Off, And At All Connections To Water Heaters And Plumbing Equipment.
- At Each Hot Water Return Piping Connection To The Hot Water Supply Piping The Contractor Shall Furnish And Install Isolation, Balancing And Check Valves. Balance to 1 GPM Unless Otherwise Noted.
- Provide Bellows Type Water Hammer Arrestors At Each Flush Valve Or Bank Of Flush Valves, Dishwashers, And All Fast Closing Valves. Where Installation Is Not Accessible Coordinate Location Of Access Panels With The Architect.
- Access Panels Shall Be Provided As Necessary To Allow For Access To Valves, Trap Primers And

PLUMBING GENERAL NOTES

Water Hammer Arrestors. All Access Panels Shall Be Provided And Installed By The General Contractor. Plumbing Contractor Shall Be Responsible For Their Location.

Sanitary / Storm Systems

- No PVC Or ABS Piping Shall Be Used In Any Above Grade Plumbing Installations.
- Cleanouts In Horizontal Drainage Lines Shall Be Spaced At Intervals Not To Exceed The Following:
 - 2-1/2" Or Less: 25 Feet
 - 3" and 4": 50 Feet
 - More Than 4": 85 Feet
- Install All Required Cleanouts To Clear Equipment And Fixtures. Cleanouts Shall Not Be Installed In Electrical Closets, IT Rooms, Or Any Similar Critical Or Water Sensitive Space.
- Sanitary Piping 3" And Greater Shall Have A Minimum Slope Of 1/8 Inch Per Foot. Sanitary Piping Less Than 3" Shall Have A Minimum Slope Of 1/4 Inch Per Foot.
- Fixture Vent And Branch Vent Piping Shall Be Installed Free Of Sags And Drops And Be Sloped Toward The Connection To The Sanitary Drainage System. All Fixtures Shall Be Vented In Accordance With Governing State And Local Plumbing Code.
- All Horizontal Storm Drainage Piping Shall Be Insulated To Prevent Condensation On The Pipes. Insulation Shall Extend Vertically To The Underside Of The Drain Body.

Natural Gas Systems

General Requirements

- Natural Gas Piping 2-1/2" And Greater Shall Be Schedule 40 Welded Pipe And Fittings. Piping 2" And Smaller Shall Be Schedule 40 Threaded Pipe And Fittings.
- All Natural Gas Piping Installed Outdoors Or In Corrosive Environments Shall Be Protected With An Approved Corrosion Resistant, UV Resistant Enamel Coating Or Wrapping.
- All Corrugated Flexible Natural Gas Connections Shall Be Properly Grounded.
- All Natural Gas Piping Shall Be Pressure Tested And Leak Tested With Approved Non-Corrosive Leak-Detecting Fluid Or Other Approved Leak-Detection Method Prior To System Startup.
- Kitchen Installations Shall Include A Natural Gas Shut Off Valve Wired To Emergency Push Button Shut Off Switches At All Paths Of Egress. Shut Off Valve Shall Be For Natural Gas Supply To Kitchen.

Installation Requirements

- Install Sediment Traps (Dirt Or Drip Legs) Prior To The Gas Shutoff Valve On All Connections To Gas Fired Equipment.
- Natural Gas Piping Shall Not Be Installed In Or Through Return Air Plenums, Supply Or Exhaust Ducts, Clothes Chutes, Chimneys, Or Elevator Shafts.
- Whenever Possible Gas Piping Shall Not Be Installed In Concealed Locations. If Installation In Concealed Locations Cannot Be Avoided, Piping Shall Not Have Unions Or Fittings Unless Fittings Are Listed For Use In Concealed Locations.
- Piping Installed Under The Building Slab Shall Be Installed In An Approved Conduit Or Sleeve System. The Conduit Must Be Vented At Both Ends And Terminate In An Occupiable Portion Of The Building At A Minimum Of 2 Inches Above The Finished Floor.

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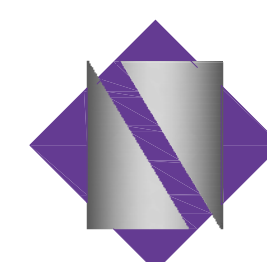
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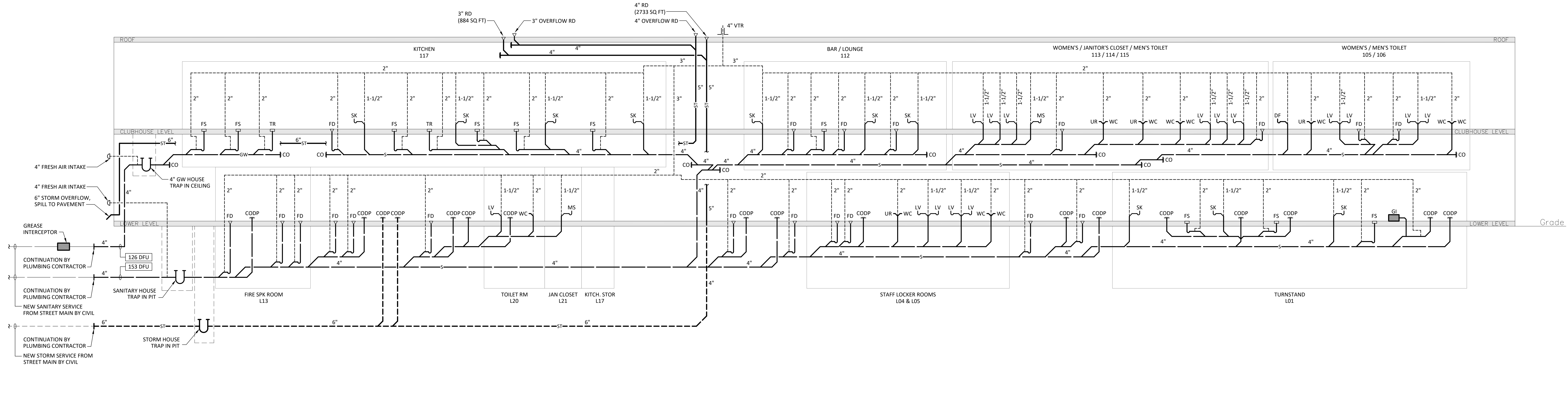
PROJECT:

**NEW CLUB HOUSE
ASH BROOK GOLF COURSE**
1210 HARITAN RD, SCOTCH PLAINS, NJ 07076

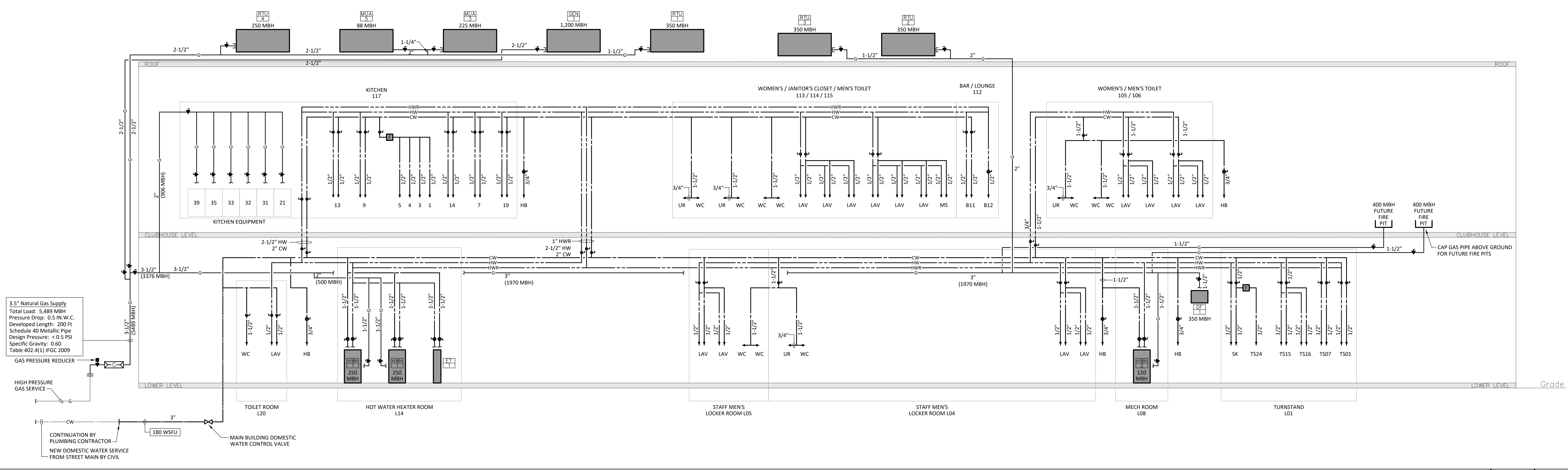
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PLUMBING INFORMATION SHEET

SUBMISSIONS		REVISIONS		DATE	02.22.2017
DATE	DESCRIPTION	DATE	DESCRIPTION	SCALE	AS NOTED
10.03.16	100% ISSUE			DRWN BY	CAD
10.17.16	BID SET			CHKD BY	DLB
02.22.17	REBID SET			JOB NO	12285
				SHEET:	OF:
				DRWG NO	P-001



SANITARY & STORM RISER DIAGRAM Scale: NTS Drawing: **P-002** Detail: **01**



WATER & GAS RISER DIAGRAM Scale: NTS Drawing: **P-002** Detail: **02**

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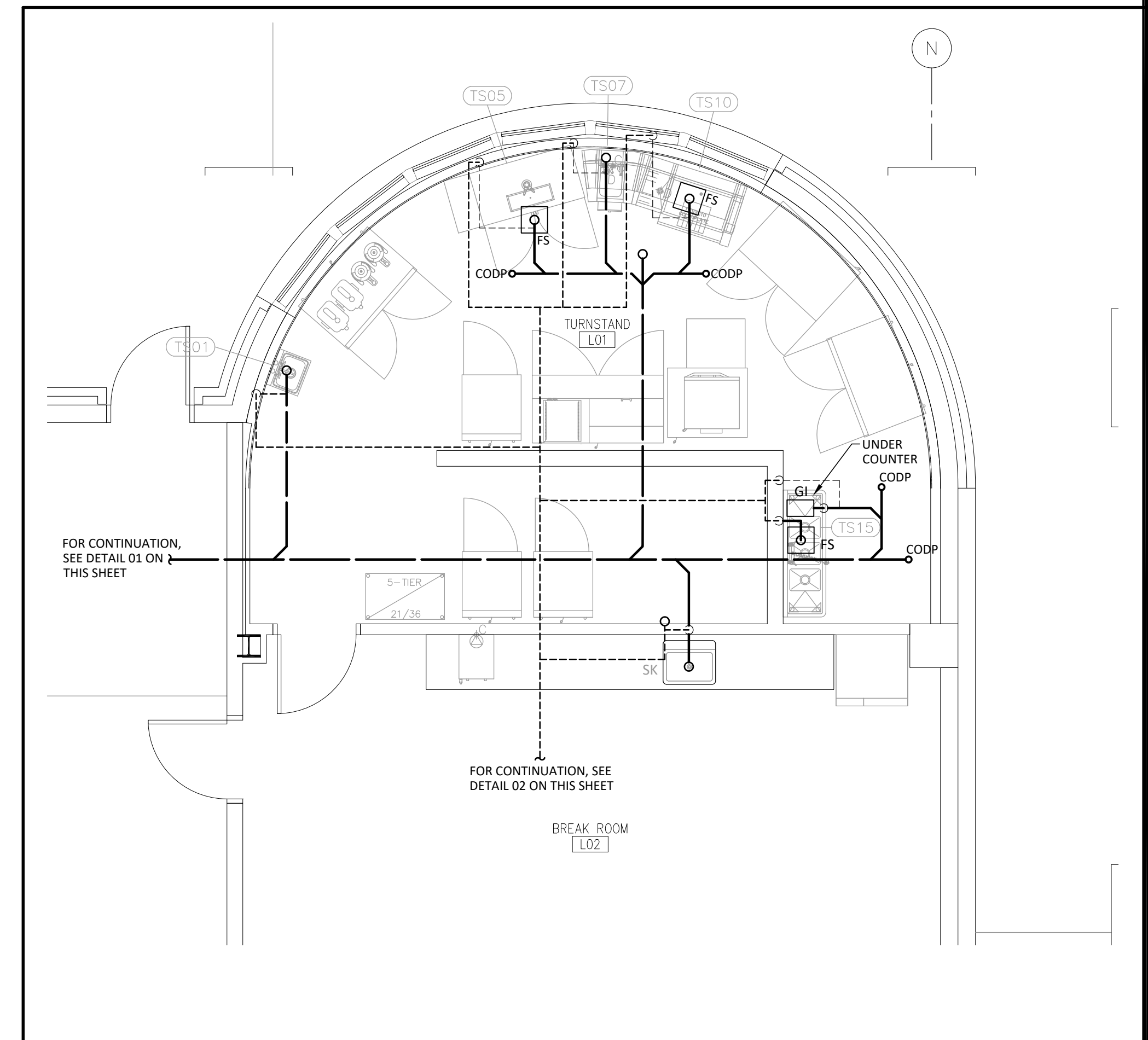
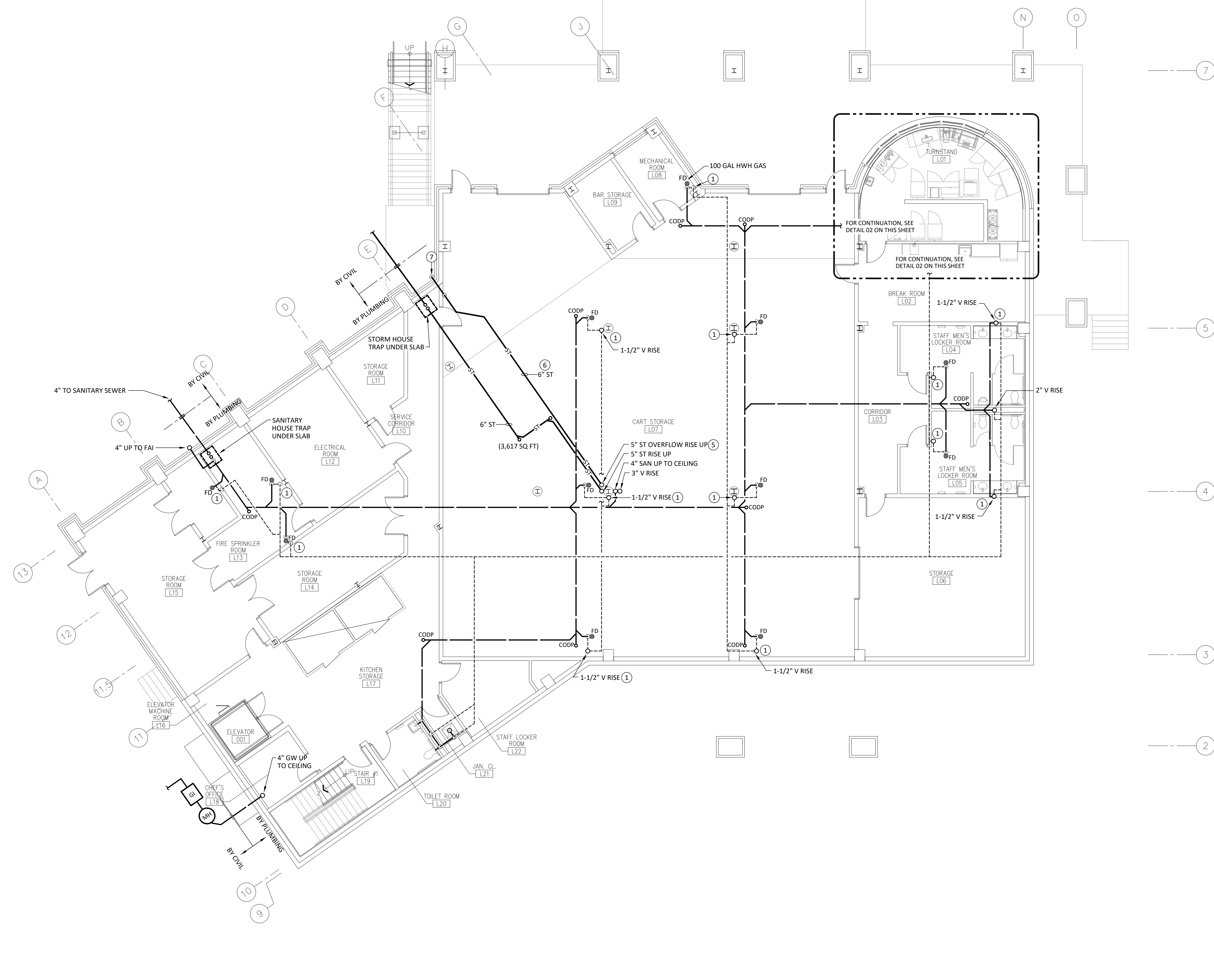
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PROJECT:
NEW CLUB HOUSE
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SHEET CONTENTS:
PLUMBING RISER DIAGRAMS

SUBMISSIONS		REVISIONS		DATE	DESCRIPTION
DATE	DESCRIPTION	DATE	DESCRIPTION	02.22.2017	AS NOTED
10.03.16	100% ISSUE				
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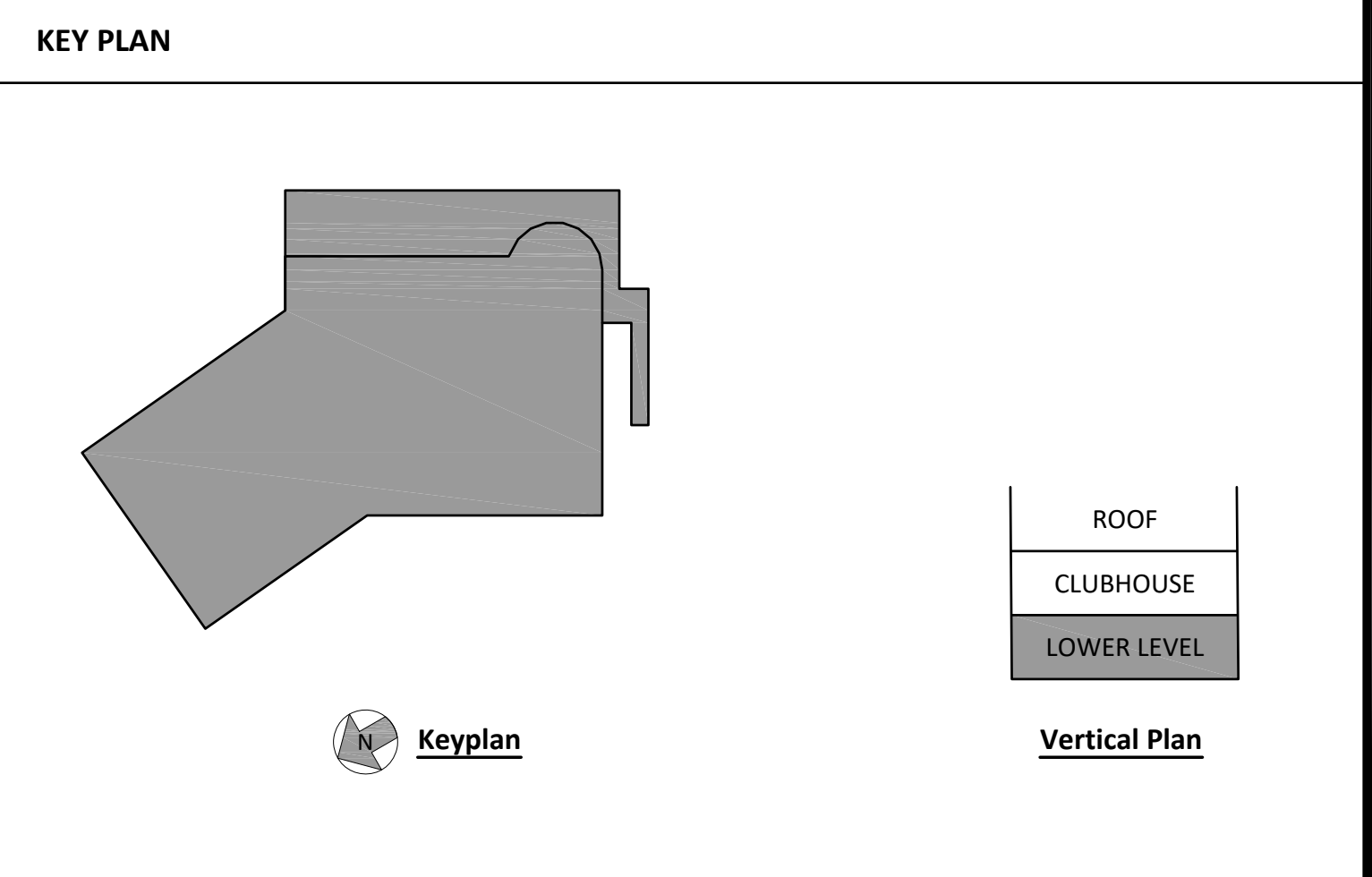
LOWER LEVEL Scale: 1/8"=1'-0" Drawing: P-101 Detail: 01

TURNSTAND PART PLAN Scale: 1/4"=1'-0" Drawing: P-101 Detail: 02

PARTIAL SYMBOLS & ABBREVIATIONS			
Identifier	Description	Identifier	Description
	Sanitary Piping Below Floor	COOP	Cleanout Deck Plate
	Vent Piping	DN	Down
	Pipe Up Through Floor Above Or Through Section Cut Line	FAI	Fresh Air Intake
	Pipe Drop / Offset Down	FD	Floor Drain
	Cleanout Deck Plate	FS	Floor Sink
	Floor Drain	GI	Grease Interceptor
		GW	Grease Waste
		MH	Manhole
		SAN	Sanitary
		ST	Storm
		V	Vent

- GENERAL NOTES**
- It Is The Responsibility Of The Plumbing Contractor To Verify All Equipment Rough-Ins With The Appropriate Supplier And To Determine The Most Feasible And Economical Location To Install Piping And Valve Services.
 - Pipes Passing Under Or Through Any Walls, Including Foundation Walls Shall Be Installed Through Pipe Sleeves One Size Larger Than Pipe. Seal Around Pipe.
 - All Pipe Penetrations Of Fire And/ Or Smoke Rated Assemblies Shall Be Fire Stopped As Required To Restore Assembly To Original Integrity.
 - Refer To Architectural Drawings For Exact Locations And Elevations Of All Plumbing Fixtures, Drains And Equipment. Provide Water Hammer Arrestors With Access Doors Adjacent To All Water Hammer Arrestors. Provide Shut-Off Valves At Each Fixture On Water Supply Pipes Hot And Cold.
 - Architect To Provide Clear Floor Space Accessibility Requirements For All Showers and ADA Plumbing Fixtures.
 - Install Work So As To Be Readily Accessible For Operation, Maintenance, And Repair. Minor Deviations From The Drawings May Be Made To Accomplish This Without Additional Cost To The Owner. Changes With Cost Impact Shall Not Be Made Without Approval.
 - Provide All Necessary Piping Offsets And Changes In Direction Required To Complete The Installation.

- KEY NOTES (SYMBOLS ①, ②, ETC.)**
- 1-1/2" Vent Riser.
 - Not Used.
 - Not Used.
 - Not Used.
 - 4" Up To Secondary (Overflow) Roof Drain.
 - 6" Storm Pipe At Ceiling Of This Level From Overflow Roof Drain.
 - Overflow Storm Drain Elbow Down To Spill On Pavement.



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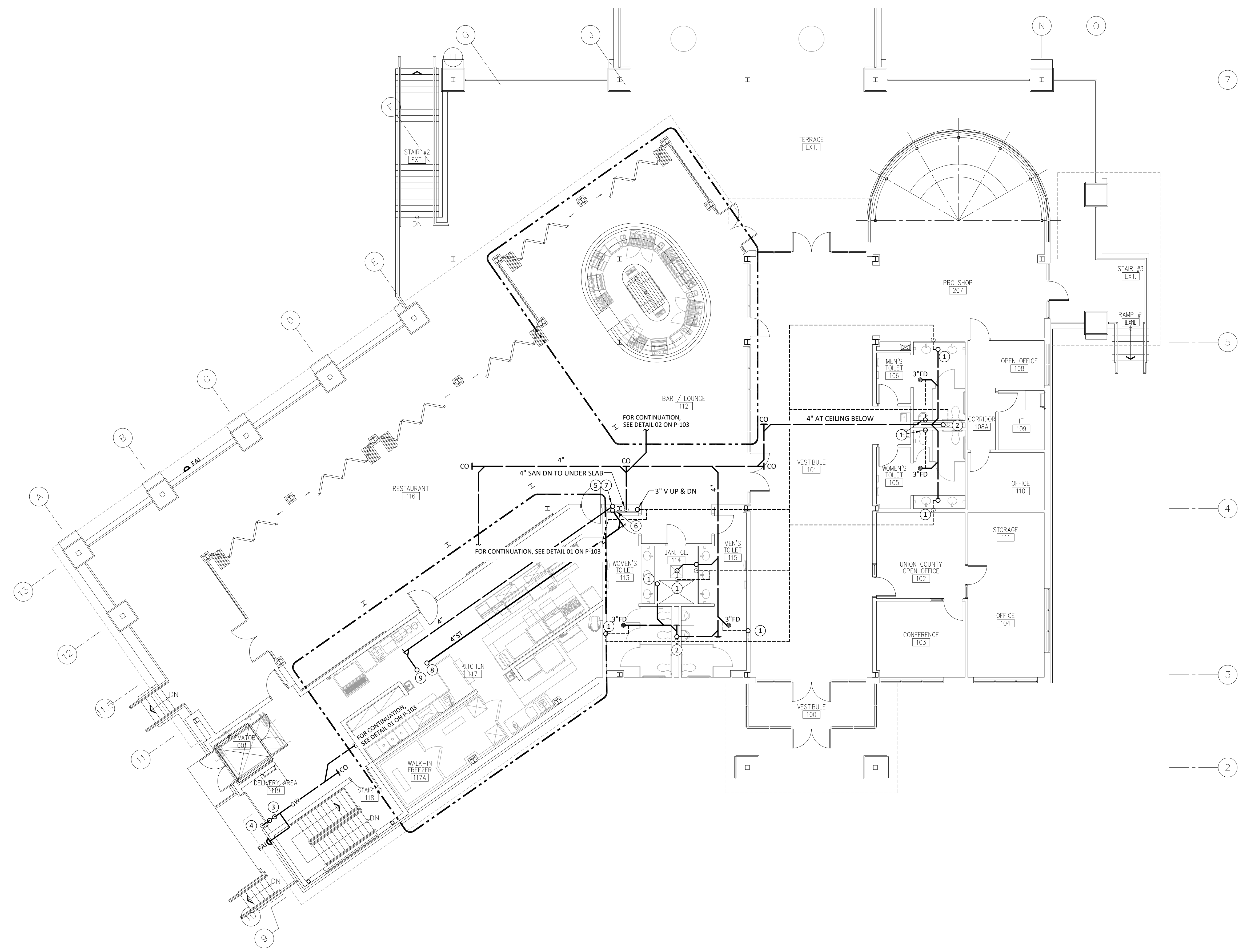
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SHEET CONTENTS:
LOWER LEVEL - SANITARY

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P-101

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CLUBHOUSE LEVEL Scale: 1/8"=1'-0" Drawing: P-102
 2' 4' 8' 16' Detail: 01

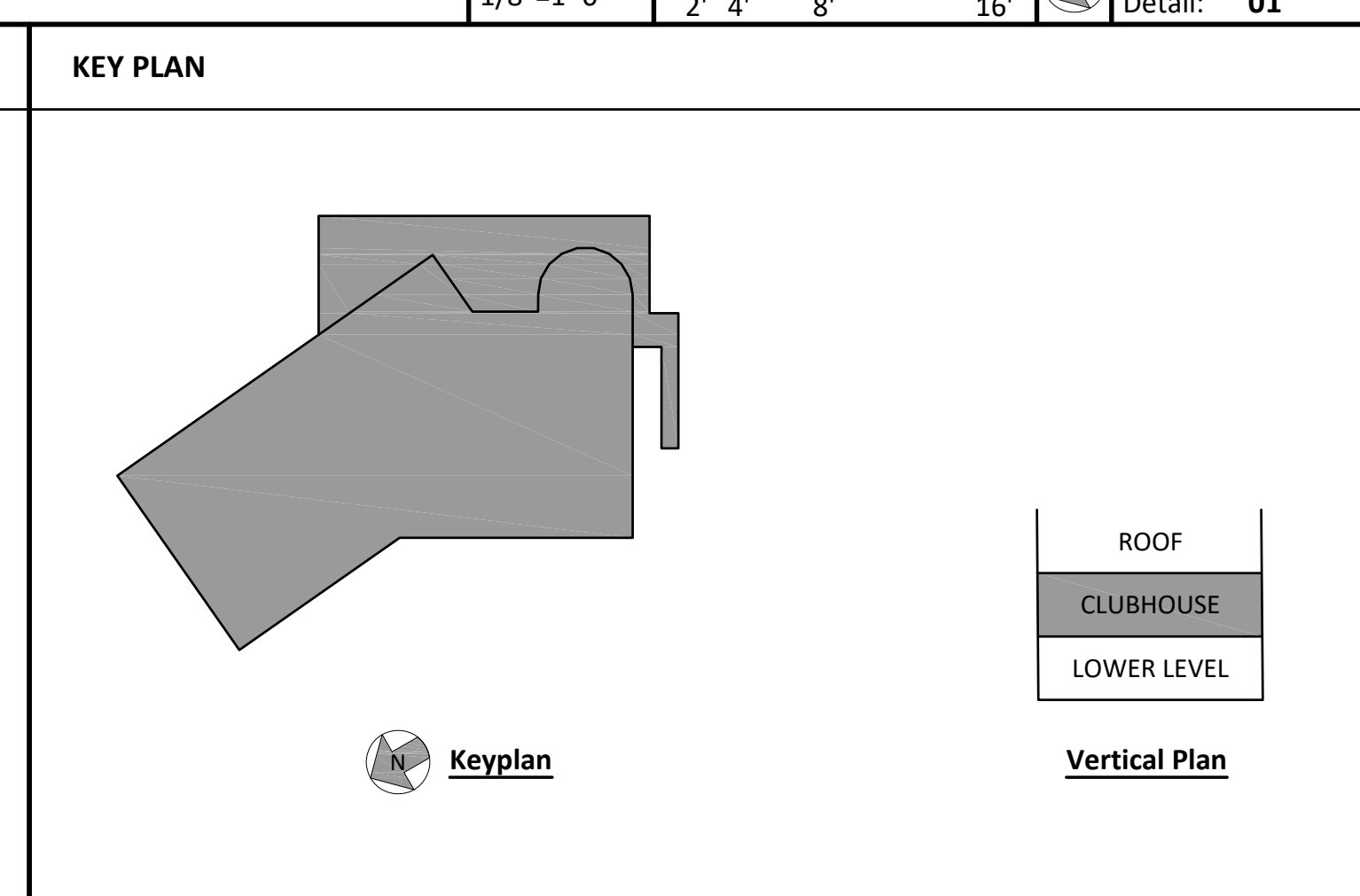
PARTIAL SYMBOLS & ABBREVIATIONS			
Identifier	Description	Identifier	Description
	Sanitary Piping Below Floor	CO	Cleanout
	Vent Piping	DN	Down
	Storm Piping	FAI	Fresh Air Intake
	Pipe Up Through Floor Above Or Through Section Cut Line	FD	Floor Drain
	Pipe Drop / Offset Down	GW	Grease Waste
	Sanitary Clean Out	V	Vent
	Floor Drain		

GENERAL NOTES

- It Is The Responsibility Of The Plumbing Contractor To Verify All Equipment Rough-Ins With The Appropriate Supplier And To Determine The Most Feasible And Economical Location To Install Piping And Valve Services.
- Pipes Passing Under Or Through Any Walls, Including Foundation Walls Shall Be Installed Through Pipe Sleeves One Size Larger Than Pipe. Seal Around Pipe.
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- Architect To Provide Clear Floor Space Accessibility Requirements For All Showers and ADA Plumbing Fixtures.
- Install Work So As To Be Readily Accessible For Operation, Maintenance, And Repair. Minor Deviations From The Drawings May Be Made To Accomplish This Without Additional Cost To The Owner. Changes With Cost Impact Shall Not Be Made Without Approval.
- Provide All Necessary Piping Offsets And Changes In Direction Required To Complete The Installation.

KEY NOTES (SYMBOLS ①, ②, ETC.)

- 1-1/2" Vent Rise.
- 2" Vent Rise.
- 4" GW House Trap At Ceiling Below.
- 4" GW Down To Below Slab.
- 4" Up To Overflow Roof Drain & Down To Lower Level Ceiling.
- Connect To 5" Storm Leader.
- Connect To 5" Overflow Storm Riser.
- 3" Up To Roof Drain.
- 3" Up To Overflow Roof Drain.



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PROJECT:
NEW CLUB HOUSE
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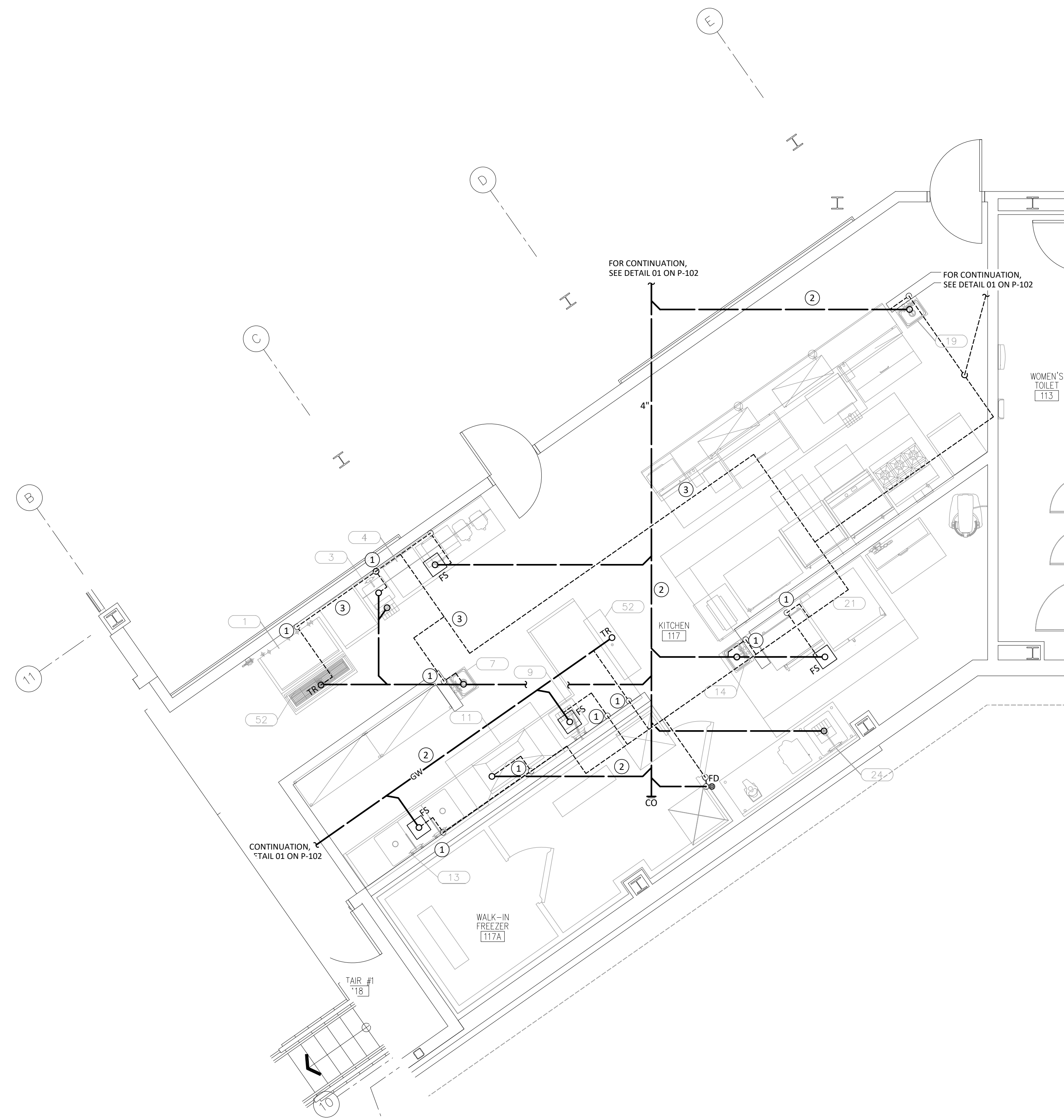
SHEET CONTENTS:
 CLUBHOUSE LEVEL - SANITARY

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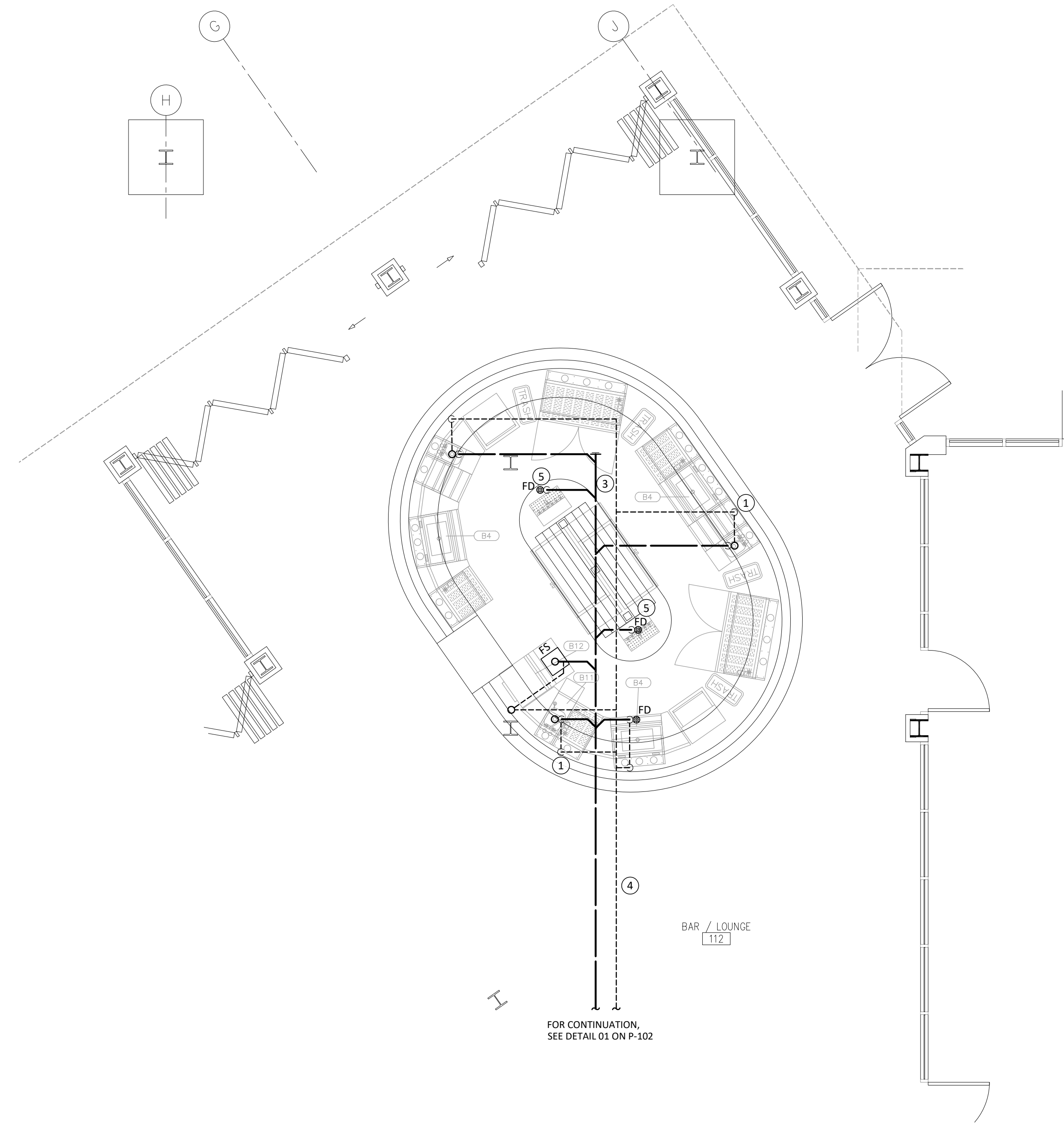
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KITCHEN PART PLAN Scale: 1/8"=1'-0" Drawing: **P-103** Detail: **01**



BAR / LOUNGE PART PLAN Scale: 1/8"=1'-0" Drawing: **P-103** Detail: **02**

PARTIAL SYMBOLS & ABBREVIATIONS			
Identifier	Description	Identifier	Description
	Sanitary Piping Below Floor	CO	Cleanout
	Vent Piping	DN	Down
	Pipe Up Through Floor Above Or Through Section Cut Line	FAI	Fresh Air Intake
	Pipe Drop / Offset Down	FD	Floor Drain
	Sanitary Clean Out	GW	Grease Waste
	Floor Drain	TR	Trap
		V	Vent

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 - Provide All Necessary Piping Offsets And Changes In Direction Required To Complete The Installation.

- KEY NOTES (SYMBOLS ①, ②, ETC.)**
- 1-1/2" Vent Rise.
 - Sanitary Piping At Ceiling Below.
 - Vent Piping At Ceiling Of Clubhouse Level.
 - All Bar Vents Shall Be Via Island Venting And Piping At Ceiling Of Level Below.
 - Floor Drains Under Beer Dispenser.

KEY PLAN

ROOF
CLUBHOUSE
LOWER LEVEL

Keyplan
Vertical Plan

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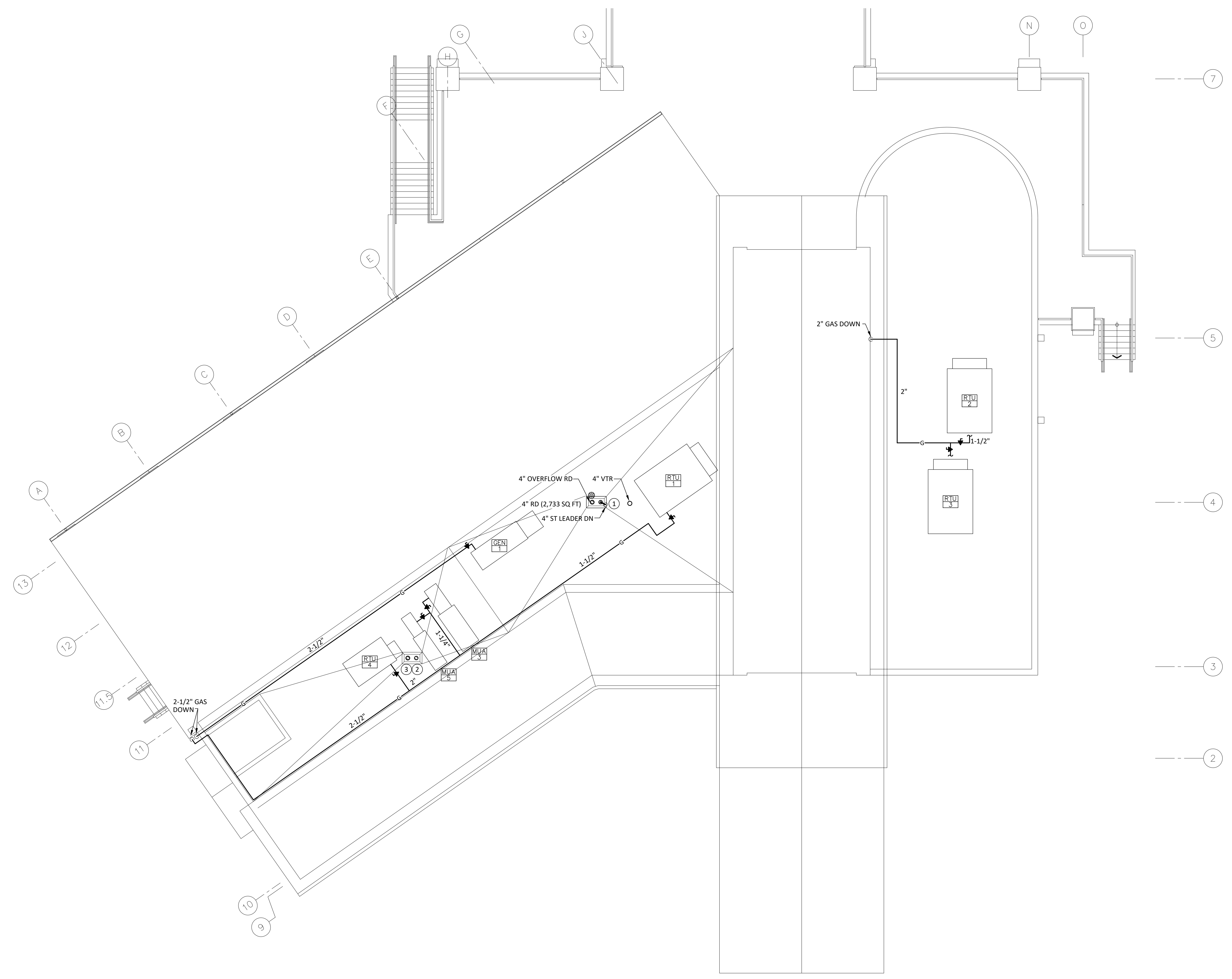
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SHEET CONTENTS:
CLUBHOUSE LEVEL - SANITARY PART PLANS

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P-103



ROOF PLAN Scale: 1/8"=1'-0" 2' 4' 8' 16' Drawing: P-104 Detail: 01

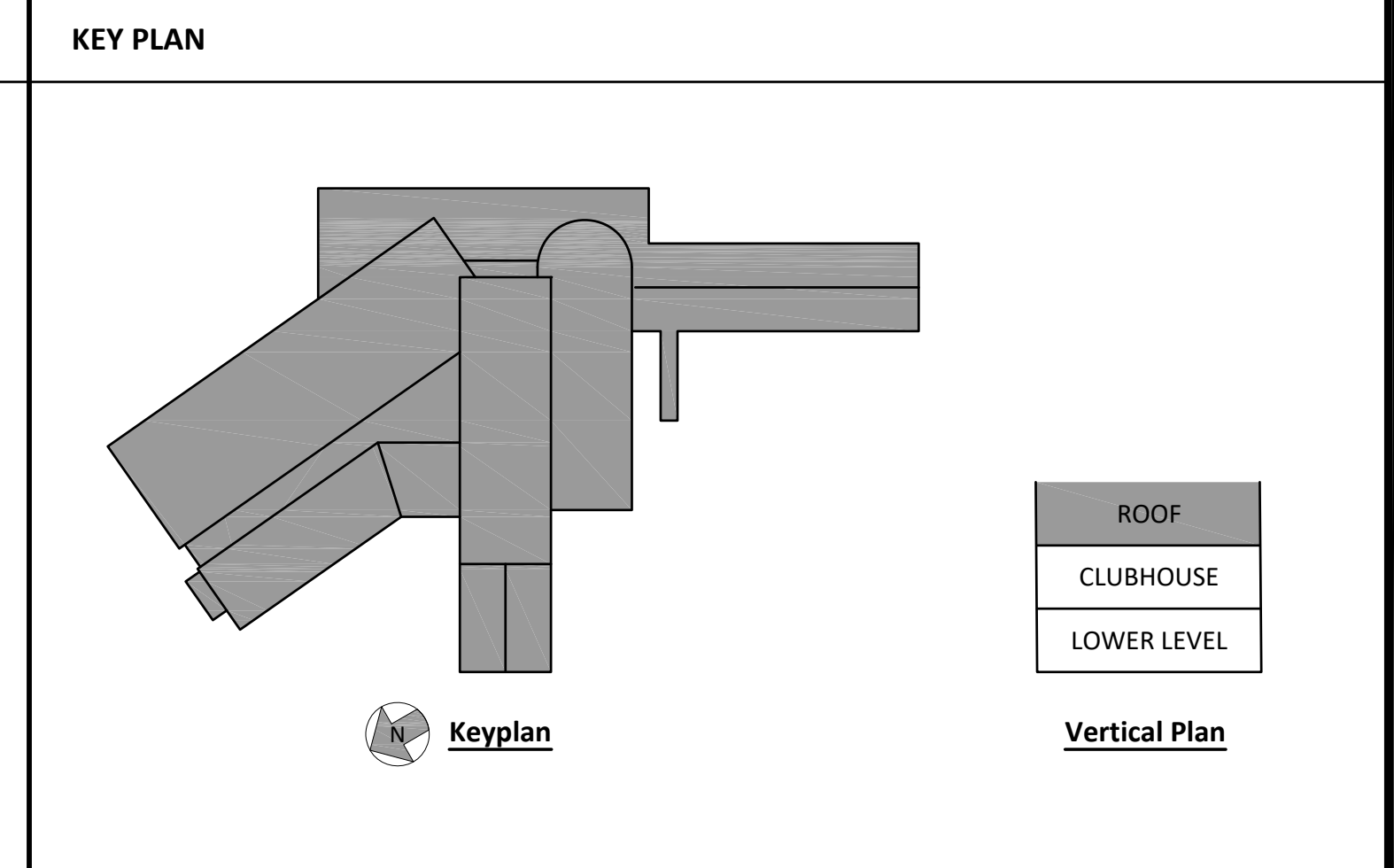
PARTIAL SYMBOLS & ABBREVIATIONS			
Identifier	Description	Identifier	Description
—○—	Pipe Up Through Floor Above Or Through Section Cut Line	G	Gas
⊙	Roof Drain	GEN	Generator
—G—	Gas Piping	MUA	Make Up Air Unit
□	New Equipment	RD	Roof Drain
		RTU	Roof Top Unit
		ST	Storm
		VTR	Vent Thru Roof

GENERAL NOTES

- It Is The Responsibility Of The Plumbing Contractor To Verify All Equipment Rough-Ins With The Appropriate Supplier And To Determine The Most Feasible And Economical Location To Install Piping And Valve Services.
- Pipes Passing Under Or Through Any Walls, Including Foundation Walls Shall Be Installed Through Pipe Sleeves One Size Larger Than Pipe. Seal Around Pipe.
- All Pipe Penetrations Of Fire And/ Or Smoke Rated Assemblies Shall Be Fire Stopped As Required To Restore Assembly To Original Integrity.
- Refer To Architectural Drawings For Exact Locations And Elevations Of All Plumbing Fixtures, Drains And Equipment. Provide Water Hammer Arrestors With Access Doors Adjacent To All Water Hammer Arrestors. Provide Shut-Off Valves At Each Fixture On Water Supply Pipes Hot And Cold.
- Architect To Provide Clear Floor Space Accessibility Requirements For All Showers and ADA Plumbing Fixtures.
- Install Work So As To Be Readily Accessible For Operation, Maintenance, And Repair. Minor Deviations From The Drawings May Be Made To Accomplish This Without Additional Cost To The Owner. Changes With Cost Impact Shall Not Be Made Without Approval.
- Provide All Necessary Piping Offsets And Changes In Direction Required To Complete The Installation.

KEY NOTES (SYMBOLS ①, ②, ETC.)

- 4" Storm Pipe Along Underside Of Roof, From Roof Drain To Storm Leader.
- 3" Roof Drain (884 SQ.FT).
- 3" Overflow Drain.



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DLB Project ID: 12285

Rob Jankowski
Phone: (646) 381-6721

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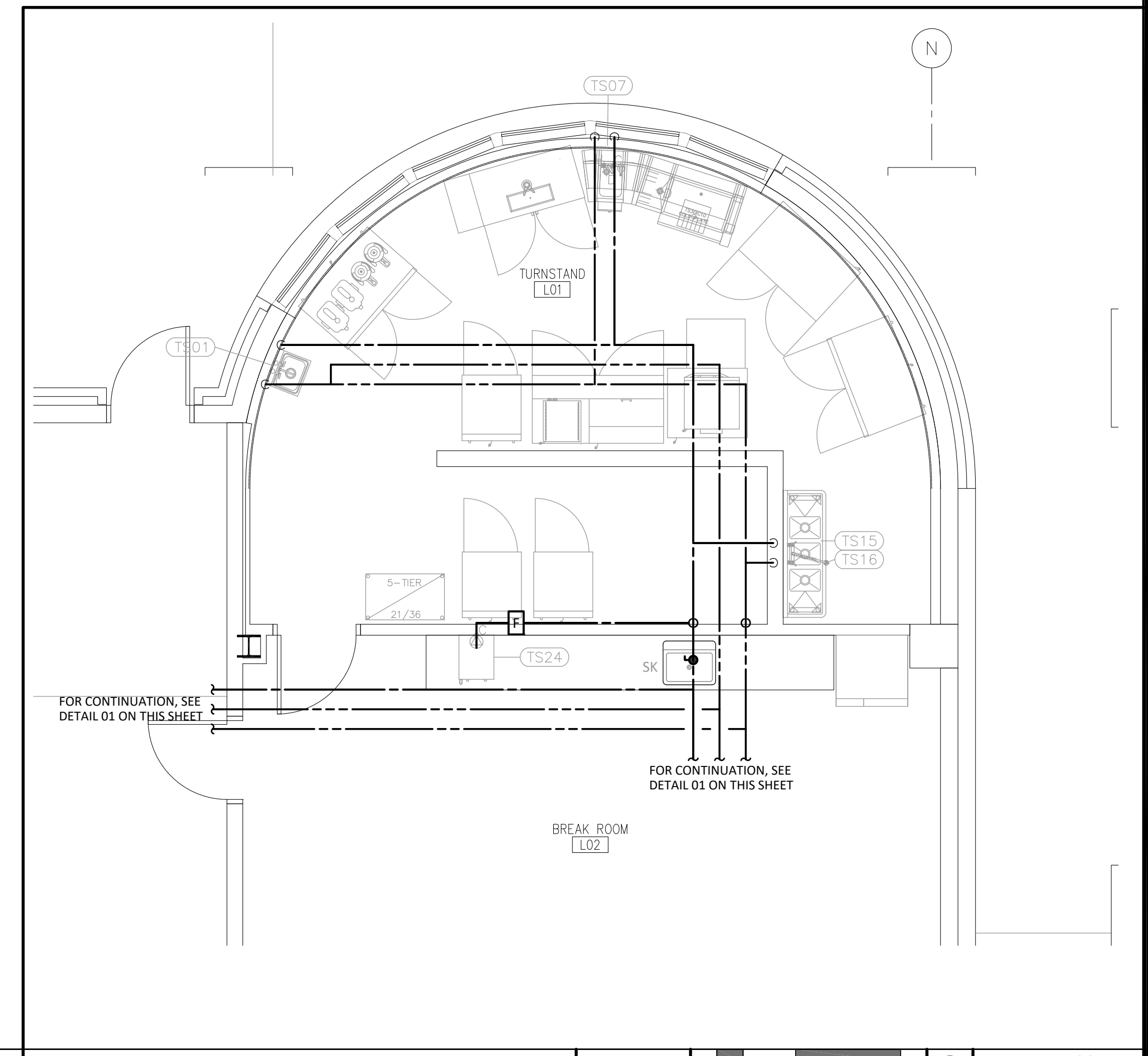
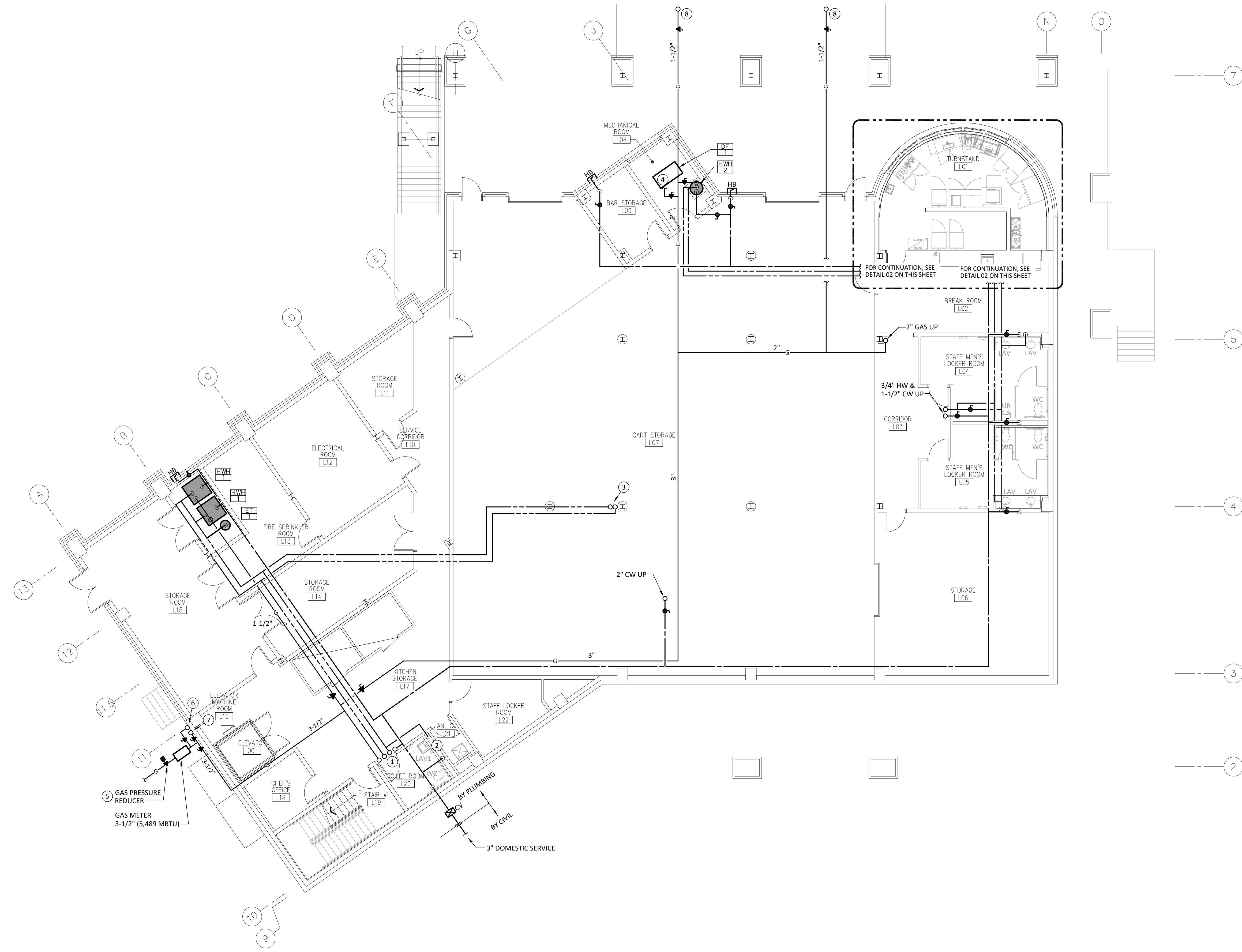
PROJECT:
NEW CLUB HOUSE
ASH BROOK GOLF COURSE
1210 RARITAN RD, SCOTCH PLAINS, NJ 07076

SHEET CONTENTS:
ROOF PLAN - PLUMBING

SUBMISSIONS		REVISIONS		DATE	02.22.2017
DATE	DESCRIPTION	DATE	DESCRIPTION	SCALE	AS NOTED
10.03.16	100% ISSUE			DRWN BY	CAD
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P-104

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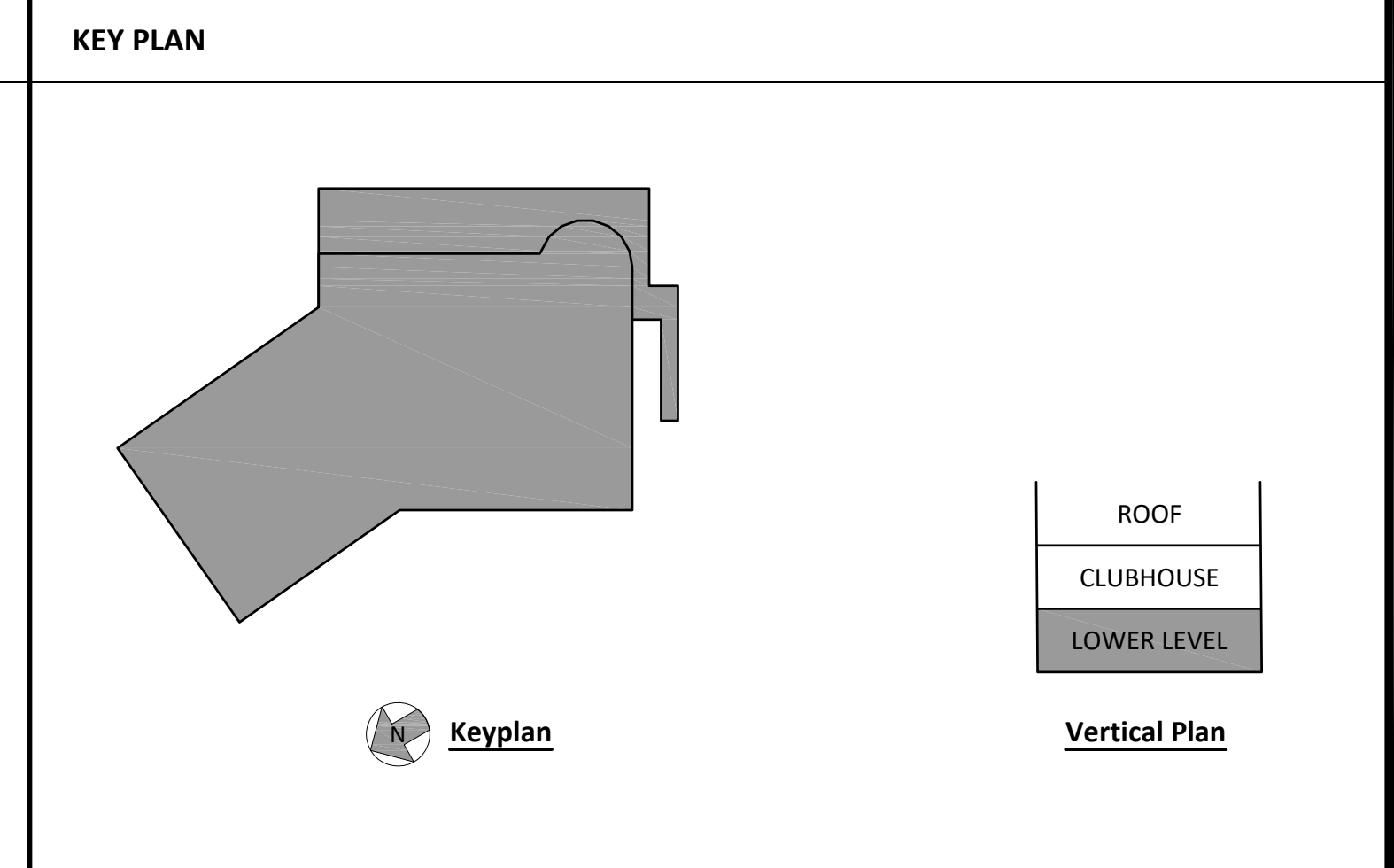
LOWER LEVEL Scale: 1/8"=1'-0" Drawing: P-201 Detail: 01

TURNSTAND PART PLAN Scale: 1/4"=1'-0" Drawing: P-201 Detail: 02

PARTIAL SYMBOLS & ABBREVIATIONS			
Identifier	Description	Identifier	Description
	Cold Water Piping	CW	Cold Water
	Hot Water Piping	DF	Duct Furnace
	Hot Water Return Piping	DN	Down
	Gas Piping	G	Gas
	Ball Valve	HB	Hose Bibb
	Gas Cock	HW	Hot Water
	Pipe Up Through Floor Above Or Through Section Cut Line	HWH	Hot Water Heater
	Pipe Drop / Offset Down	HWR	Hot Water Return
	Under Cabinet Filter	MUA	Make Up Air Unit
	Hose Bibb In Freeze Proof Enclosure	RTU	Roof Top Unit

- GENERAL NOTES (SYMBOLS ①, ②, ETC.)**
- It Is The Responsibility Of The Plumbing Contractor To Verify All Equipment Rough-Ins With The Appropriate Supplier And To Determine The Most Feasible And Economical Location To Install Piping And Valve Services.
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 - Architect To Provide Clear Floor Space Accessibility Requirements For All Showers and ADA Plumbing Fixtures.
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 - Provide All Necessary Piping Offsets And Changes In Direction Required To Complete The Installation.

- KEY NOTES (SYMBOLS ①, ②, ETC.)**
- 2" G, 2" CW, 2-1/2" HW & 1" HWR Risers Up.
 - 1" CW Drop & 3/4" HW Drop.
 - 1" HW & 3/4" HWR Up To Bathroom Above.
 - 1-1/2" Gas To DF-1.
 - Gas Pressure Shall Be Reduced To 14" WC.
 - 2-1/2" Gas Pipe Up To Emergency Generator.
 - 2-1/2" Gas Pipe Up To RTU's And MUA's.
 - 1-1/2" Gas Up To Future Fire Pits. Cap Gas Pipe Above Ground.



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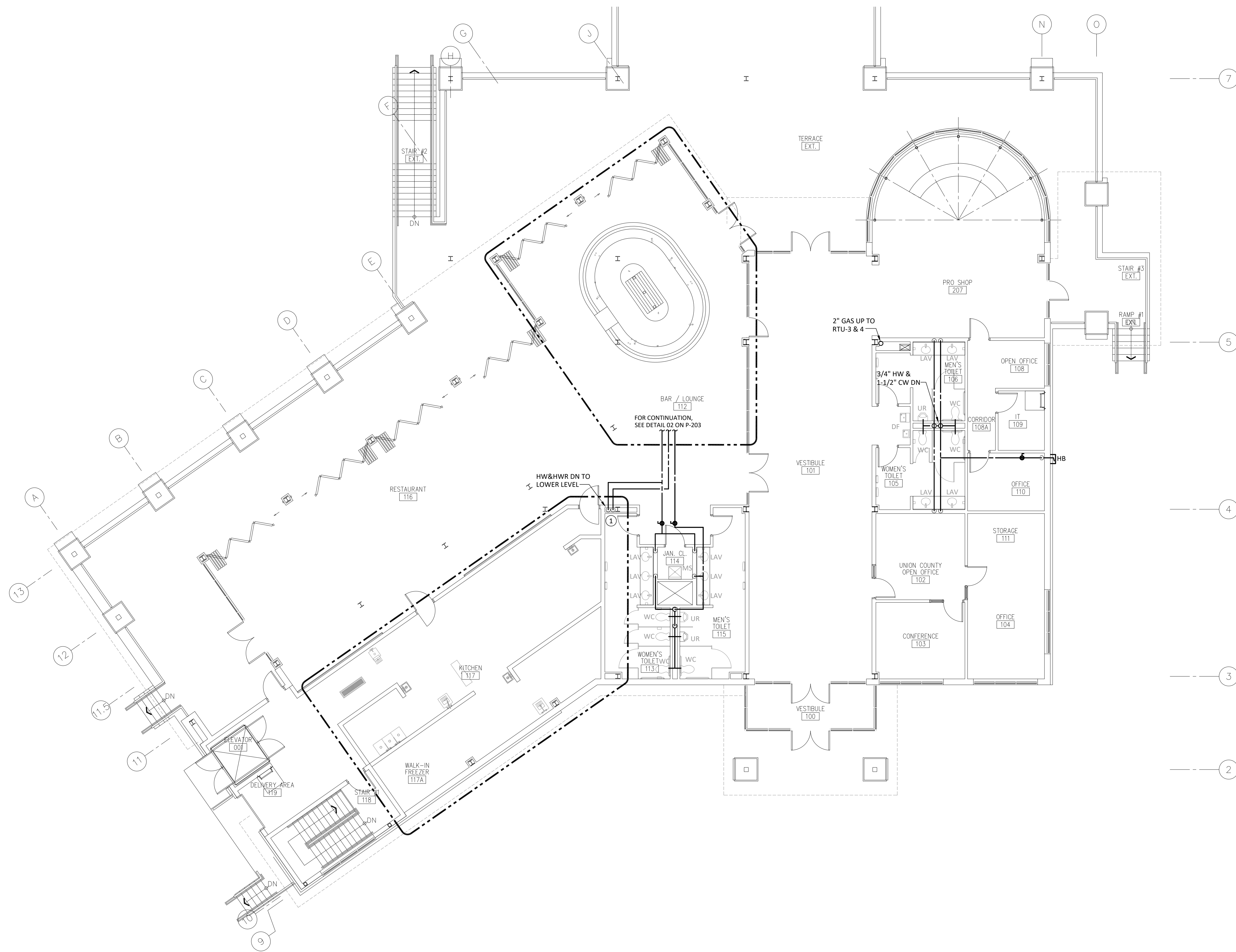
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PROJECT:
NEW CLUB HOUSE
ASH BROOK GOLF COURSE
1210 RARITAN RD, SCOTCH PLAINS, NJ 07076

SHEET CONTENTS:
LOWER LEVEL - DOMESTIC WATER AND GAS

SUBMISSIONS		REVISIONS		DATE	02.22.2017
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02.22.17	REBID SET			JOB NO	12285
				SHEET:	OF:
				DRWG NO	

P-201



CLUBHOUSE LEVEL Scale: 1/8"=1'-0" Drawing: P-202
 2' 4' 8' 16' Detail: 01

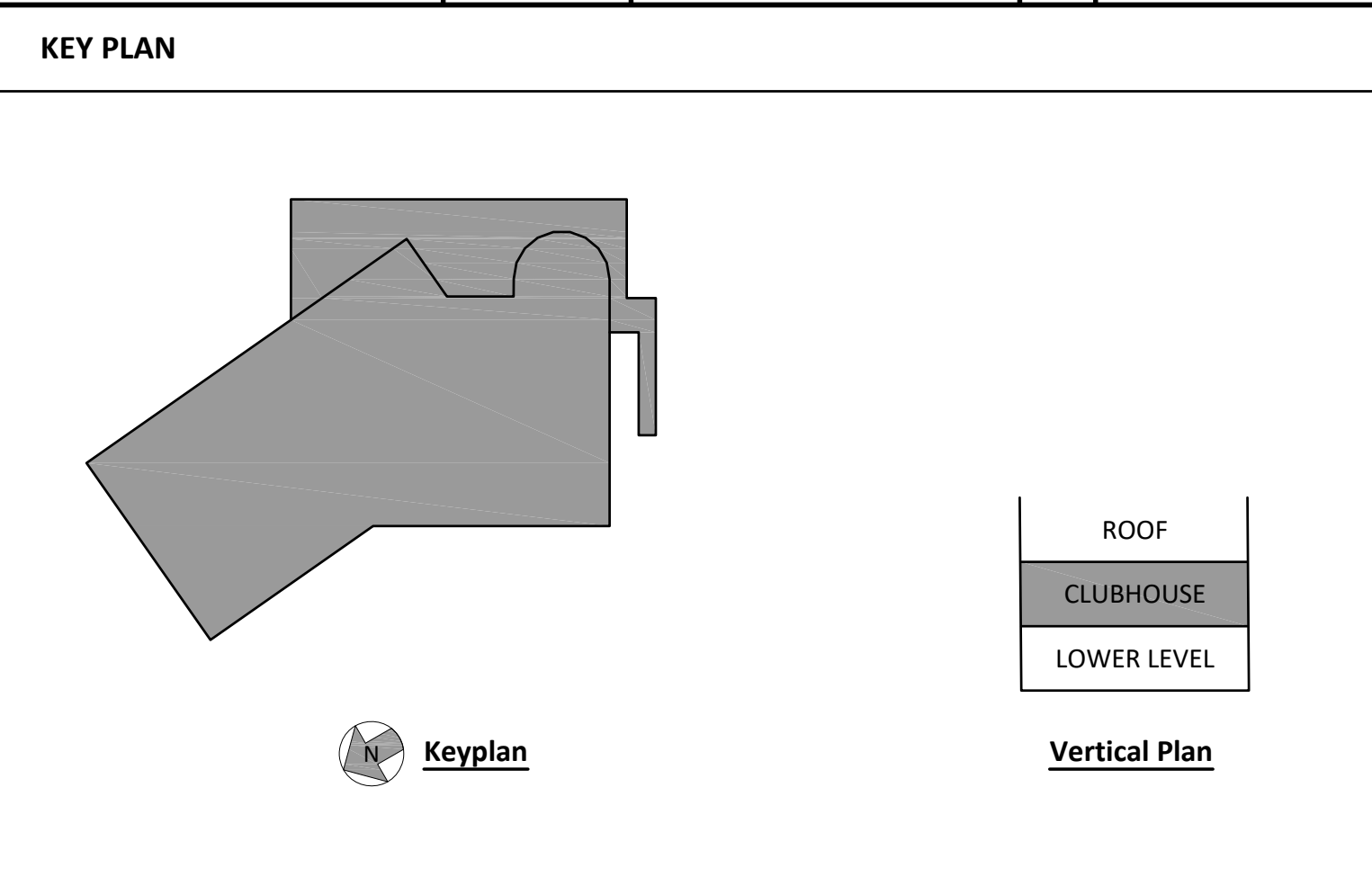
PARTIAL SYMBOLS & ABBREVIATIONS	
Identifier	Description
	Cold Water Piping
	Hot Water Piping
	Hot Water Return Piping
	Gas Piping
	Ball Valve
	Gas Cock
	Pipe Up Through Floor Above Or Through Section Cut Line
	Pipe Drop / Offset Down
	Under Cabinet Filter
	Hose Bibb In Freeze Proof Enclosure

GENERAL NOTES

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KEY NOTES (SYMBOLS ①, ②, ETC.)

- HW & HWR From Lower Level.



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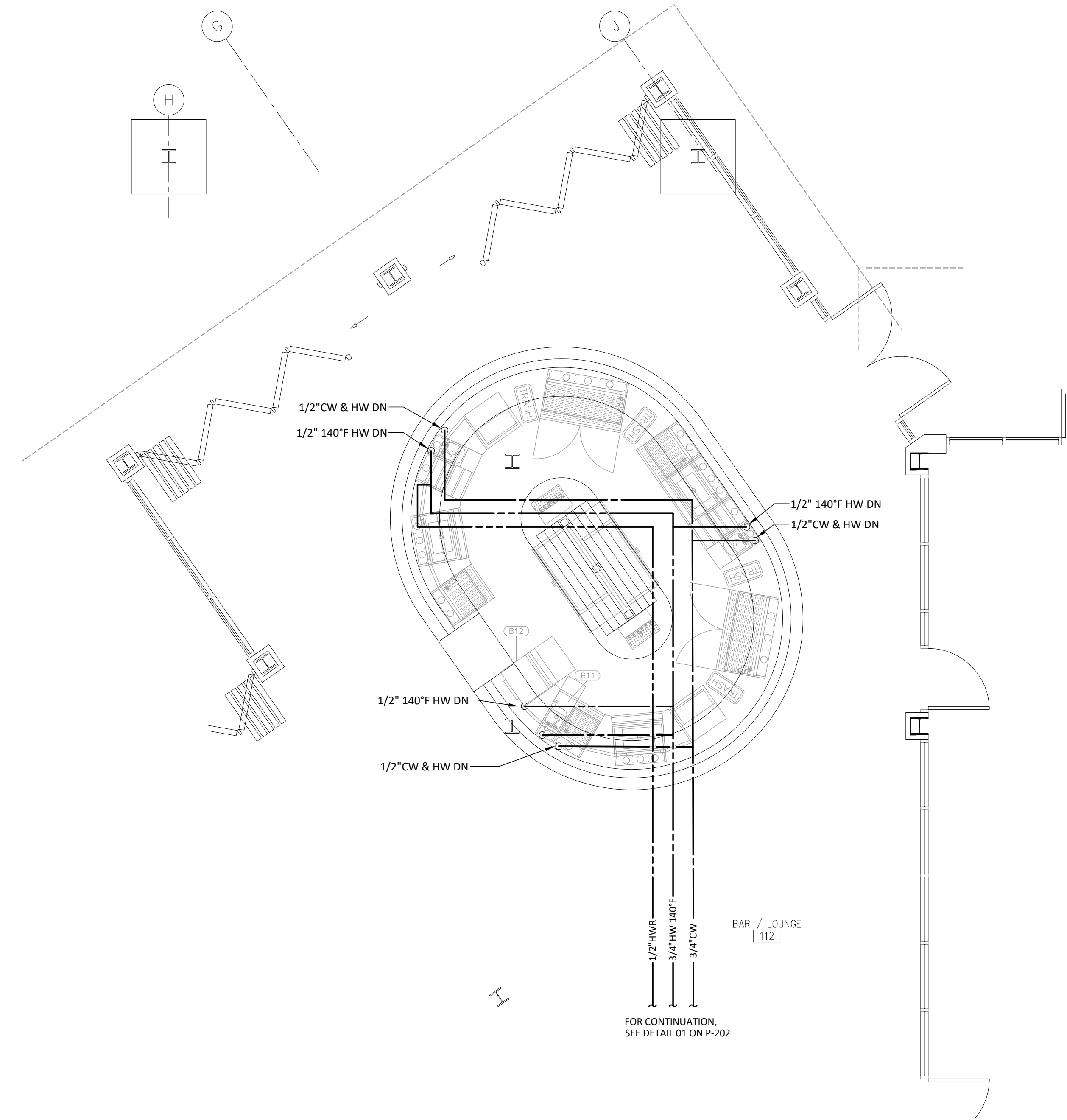
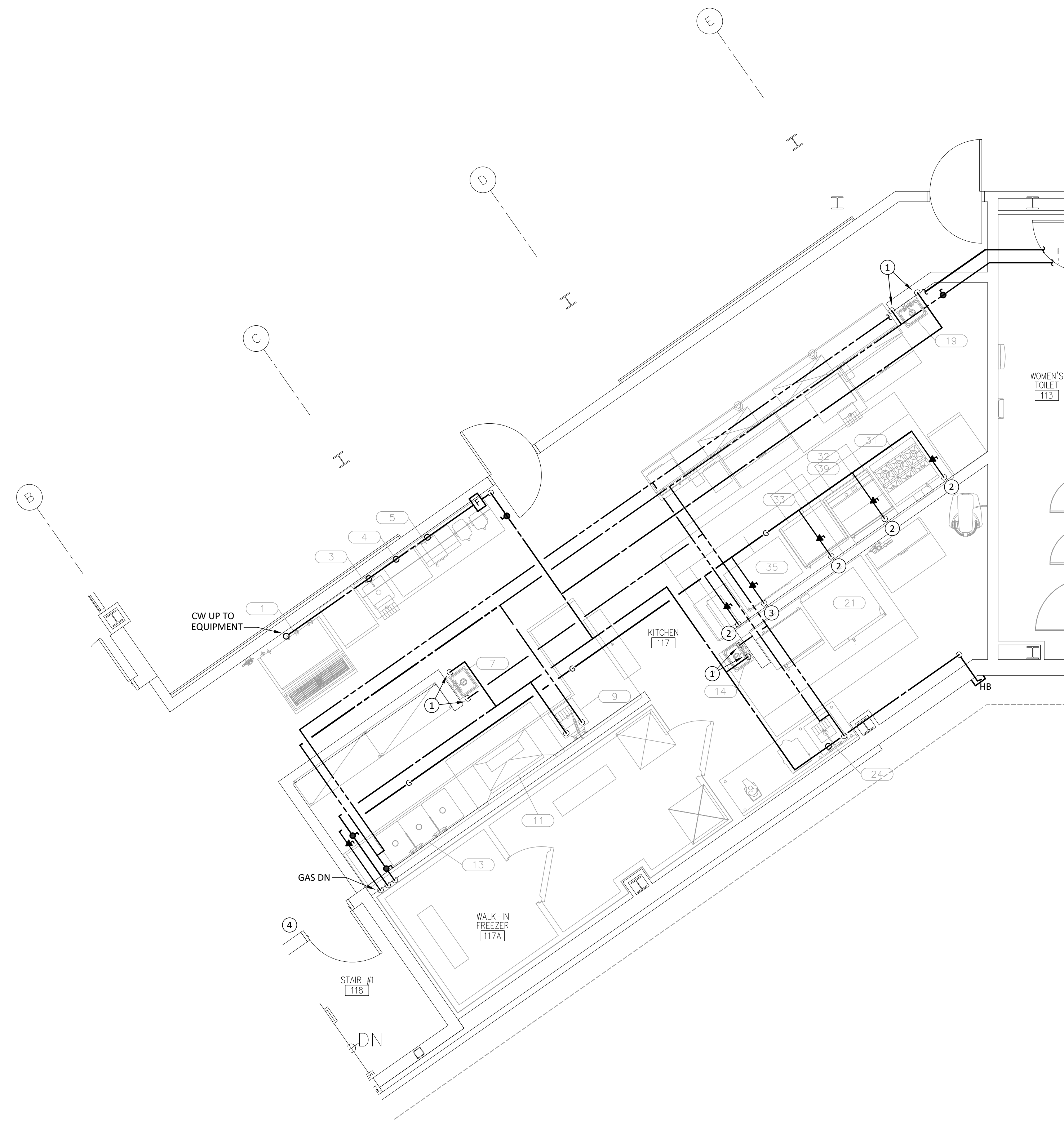
SHEET CONTENTS:
CLUBHOUSE LEVEL - DOMESTIC WATER AND GAS

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P-202

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PARTIAL SYMBOLS & ABBREVIATIONS	
Identifier	Description
	Cold Water Piping
	Hot Water Piping
	Hot Water Return Piping
	Gas Piping
	Ball Valve
	Gas Cock
	Pipe Up Through Floor Above Or Through Section Cut Line
	Pipe Drop / Offset Down
	Under Cabinet Filter
	Hose Bibb In Freeze Proof Enclosure

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7.	Provide All Necessary Piping Offsets And Changes In Direction Required To Complete The Installation.

KEY NOTES (SYMBOLS ①, ②, ETC.)	
1.	1/2" CW & 1/2" HW Down.
2.	3/4" Gas Down.
3.	1-1/4" Gas Down.
4.	Emergency Gas Shut Off Button For Kitchen Gas Supply.

KEY PLAN	
<p>ROOF CLUBHOUSE LOWER LEVEL</p> <p>Keyplan Vertical Plan</p>	

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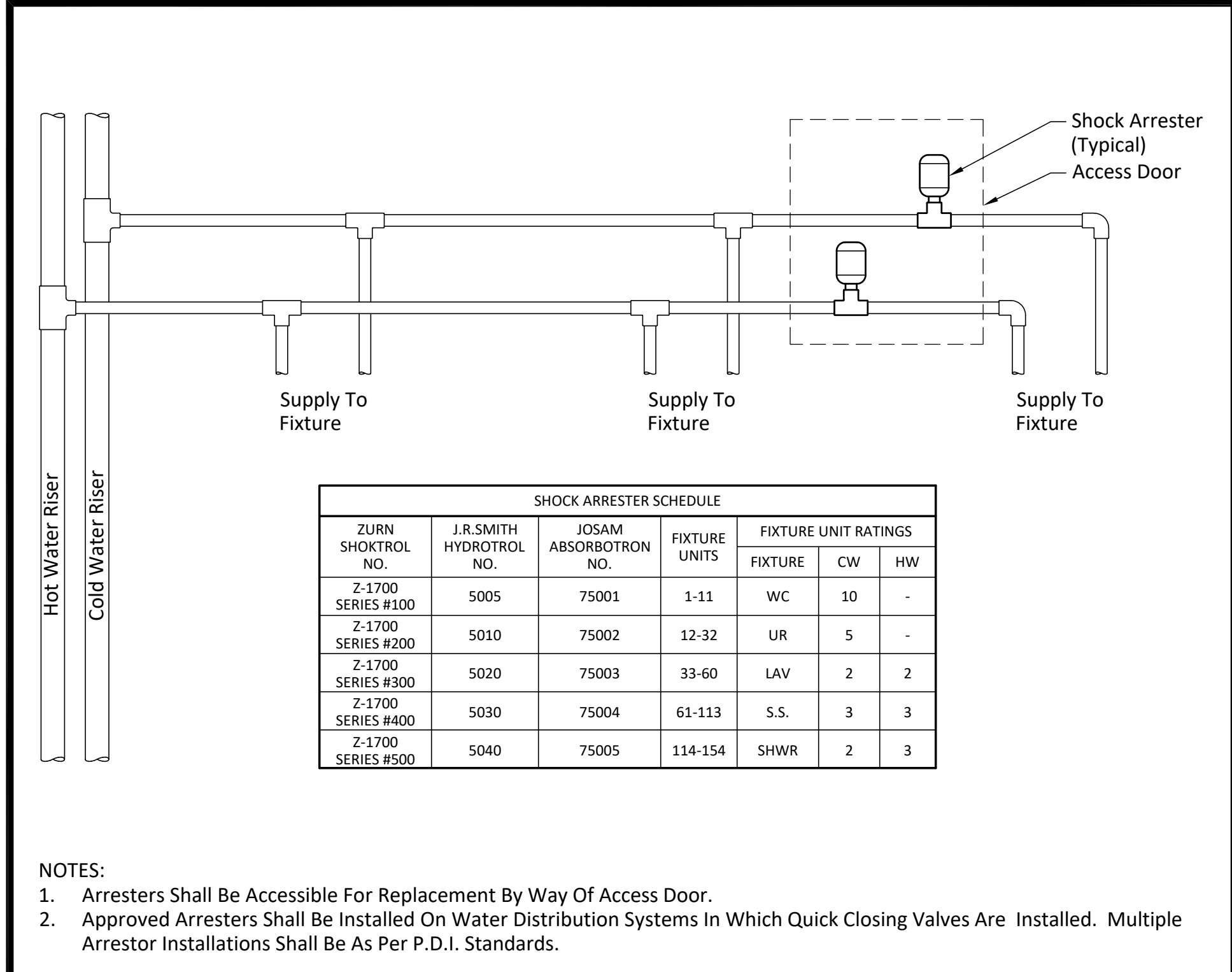
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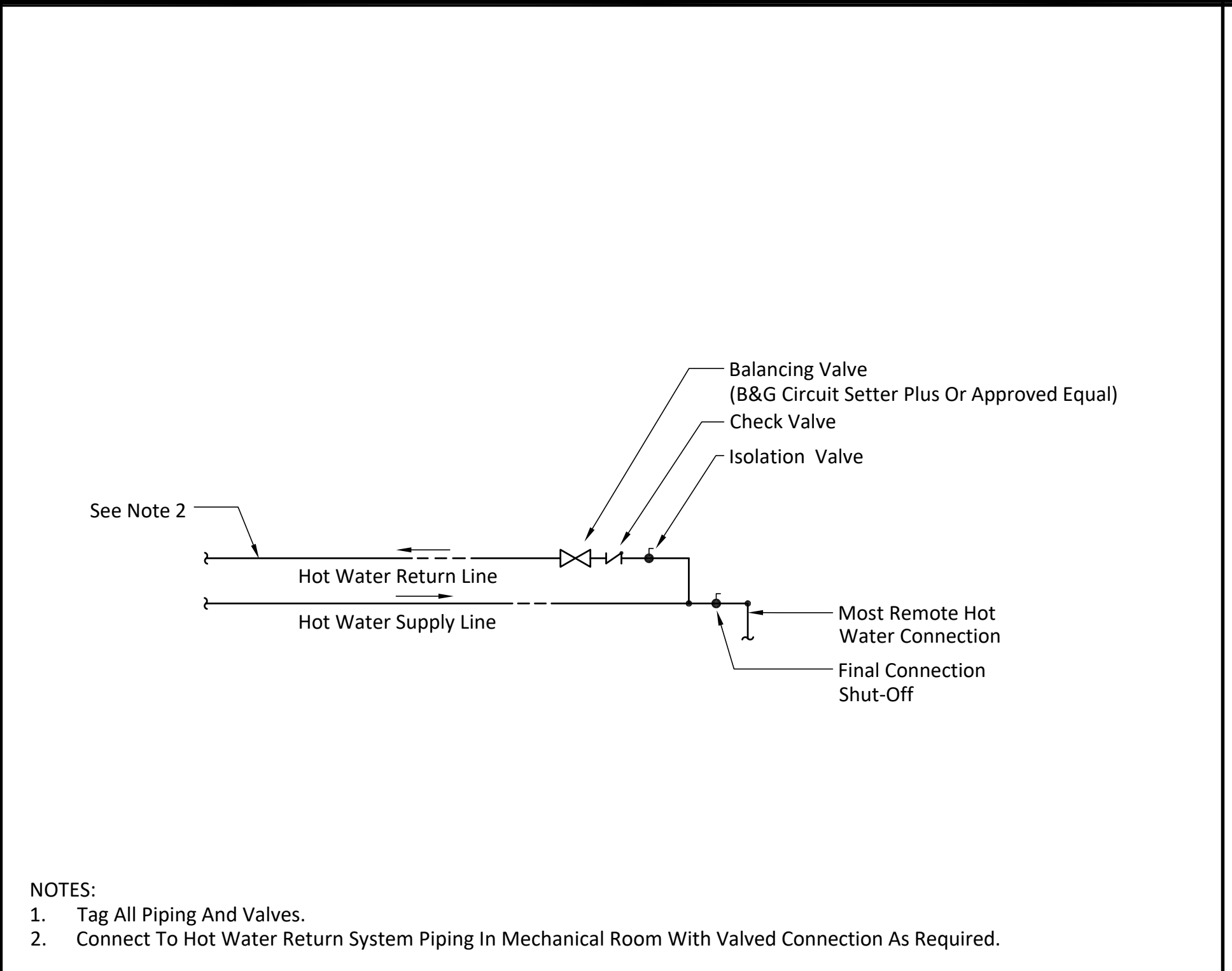
SHEET CONTENTS:
CLUBHOUSE LEVEL - DOMESTIC WATER AND GAS PART PLANS

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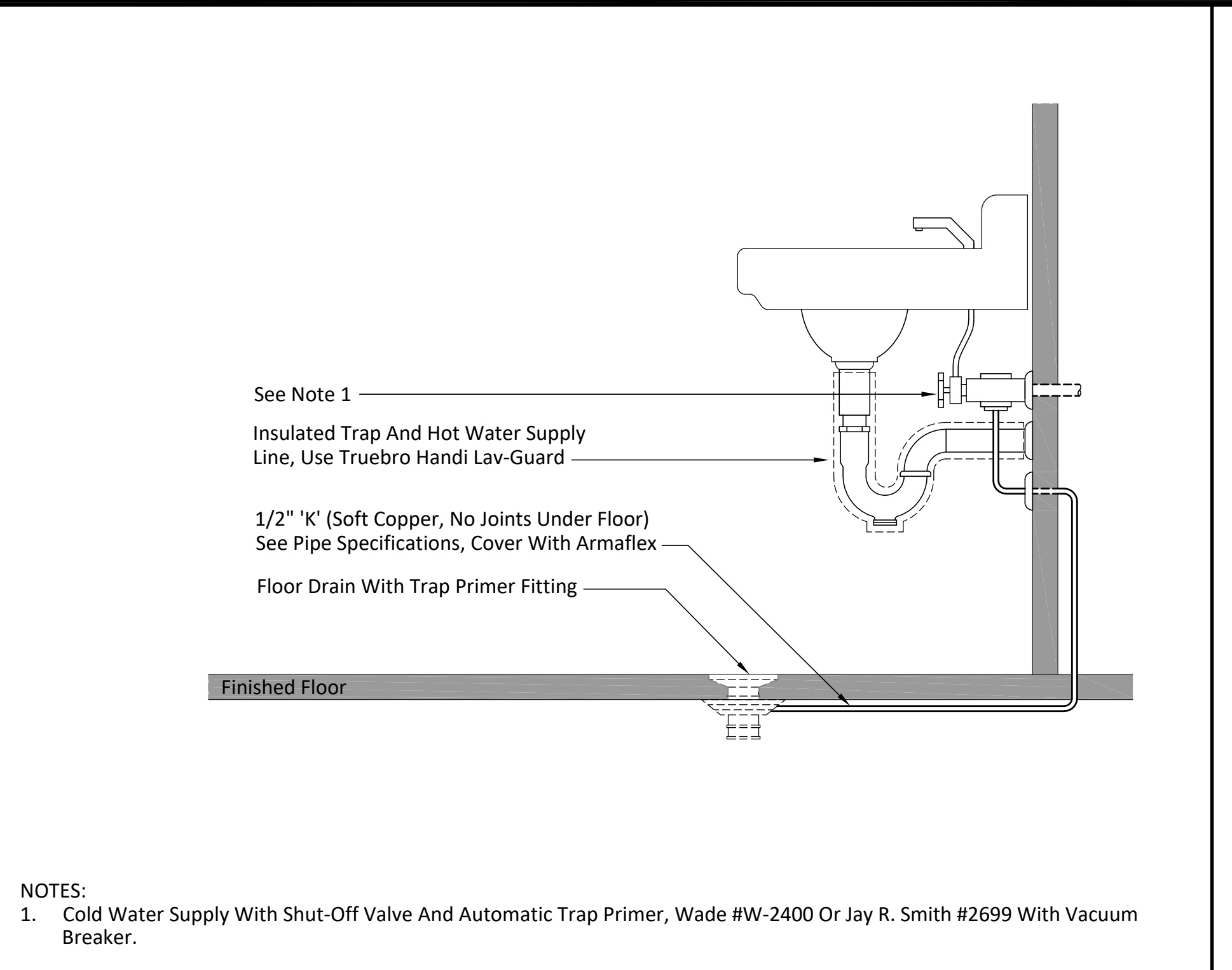
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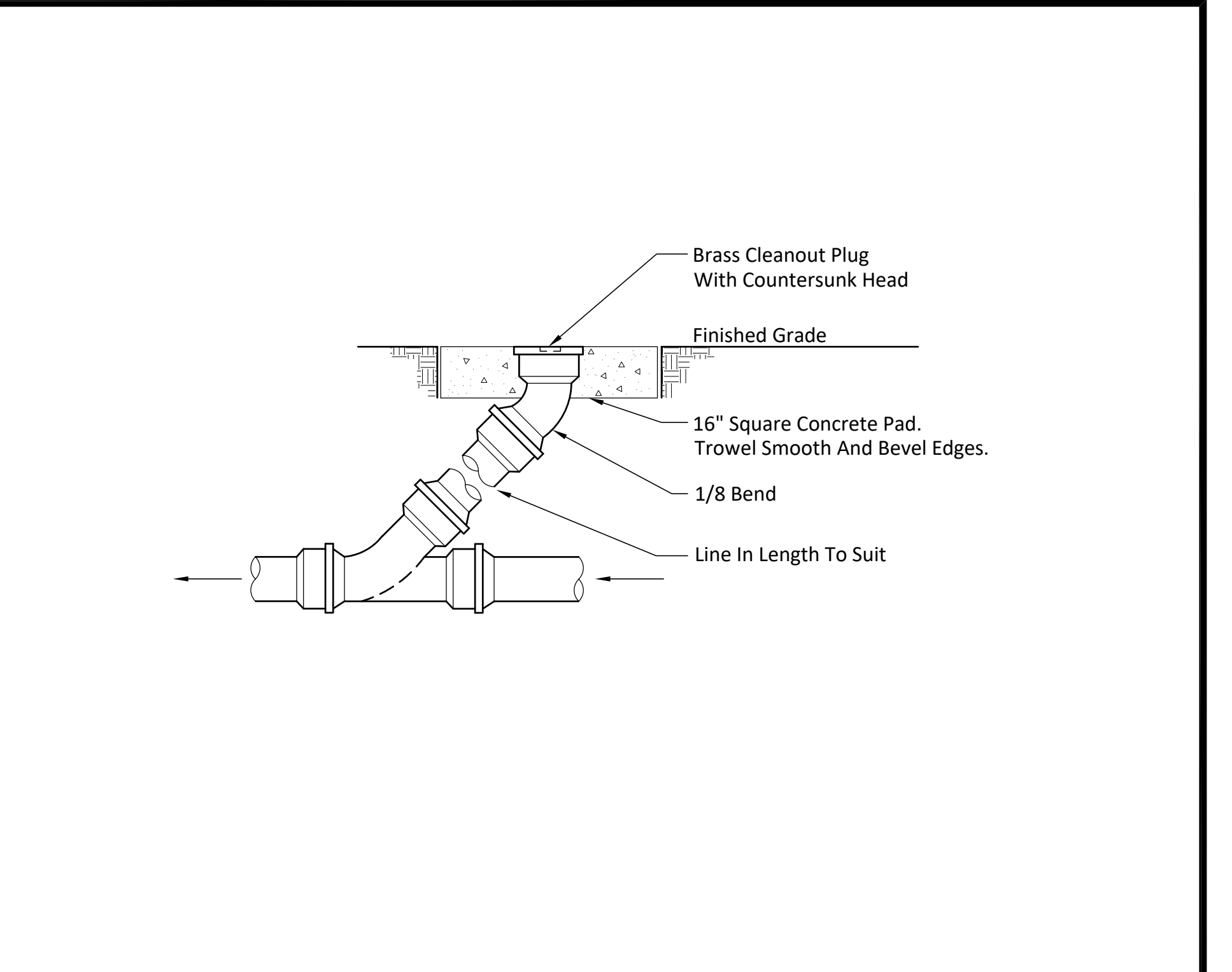
DETAIL OF SHOCK ARRESTER INSTALLATION Scale: NTS Drawing: P-501 Detail: 01



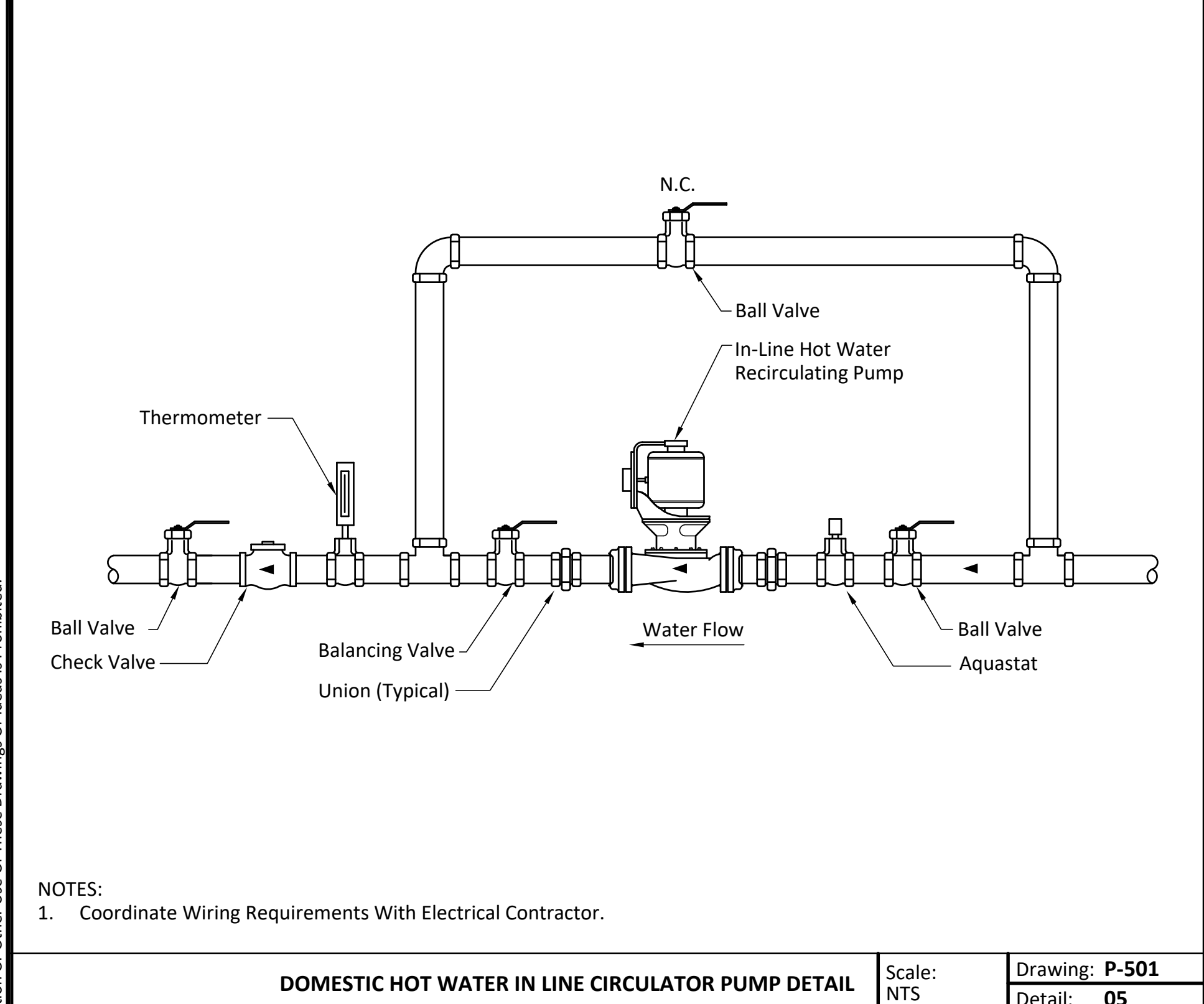
BALANCING VALVE ASSEMBLY (BVA) DETAIL Scale: NTS Drawing: P-501 Detail: 02



DETAIL OF FLOOR DRAIN AND TRAP PRIMER Scale: NTS Drawing: P-501 Detail: 03



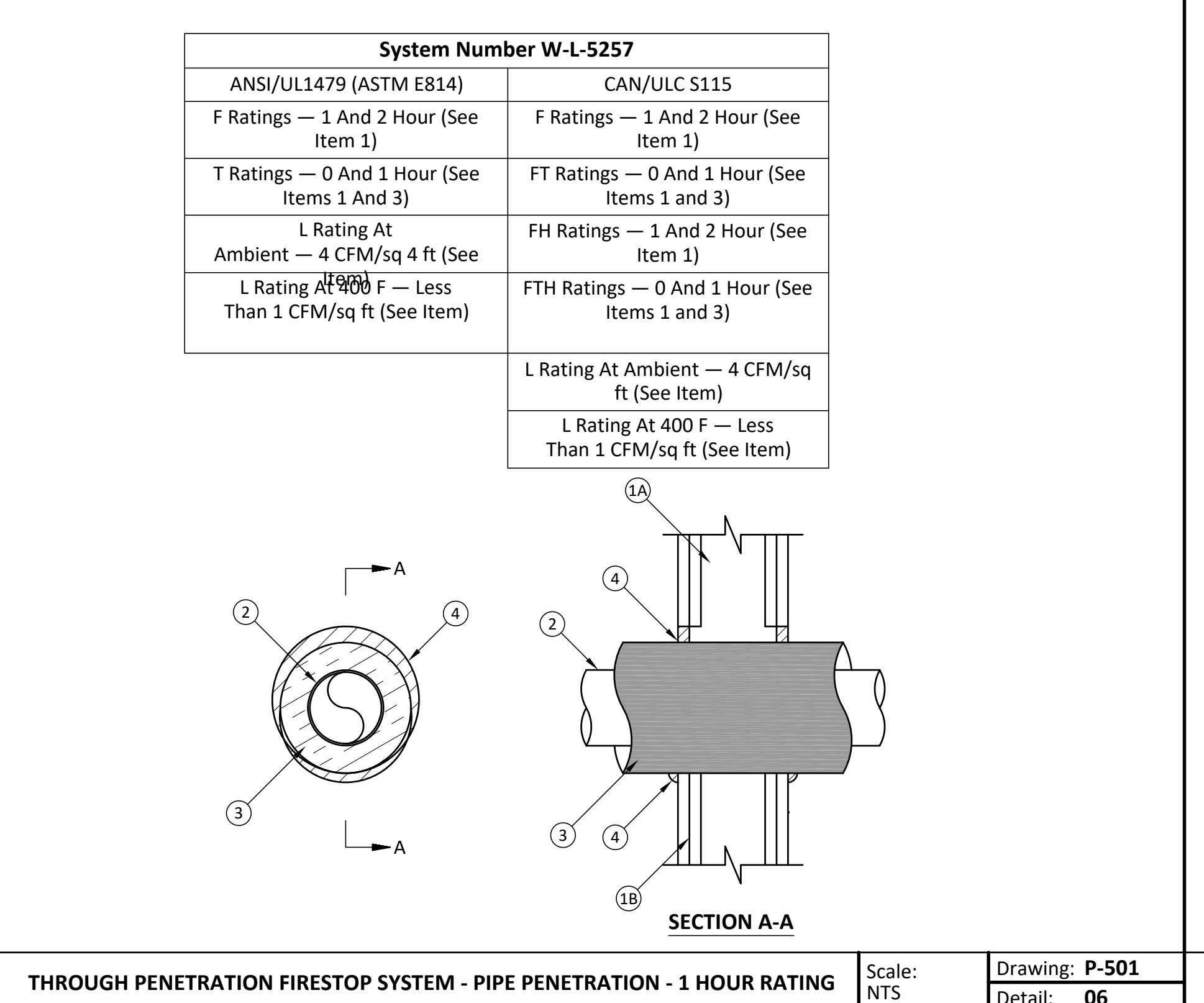
DETAIL OF CLEANOUT TO GRADE Scale: NTS Drawing: P-501 Detail: 04



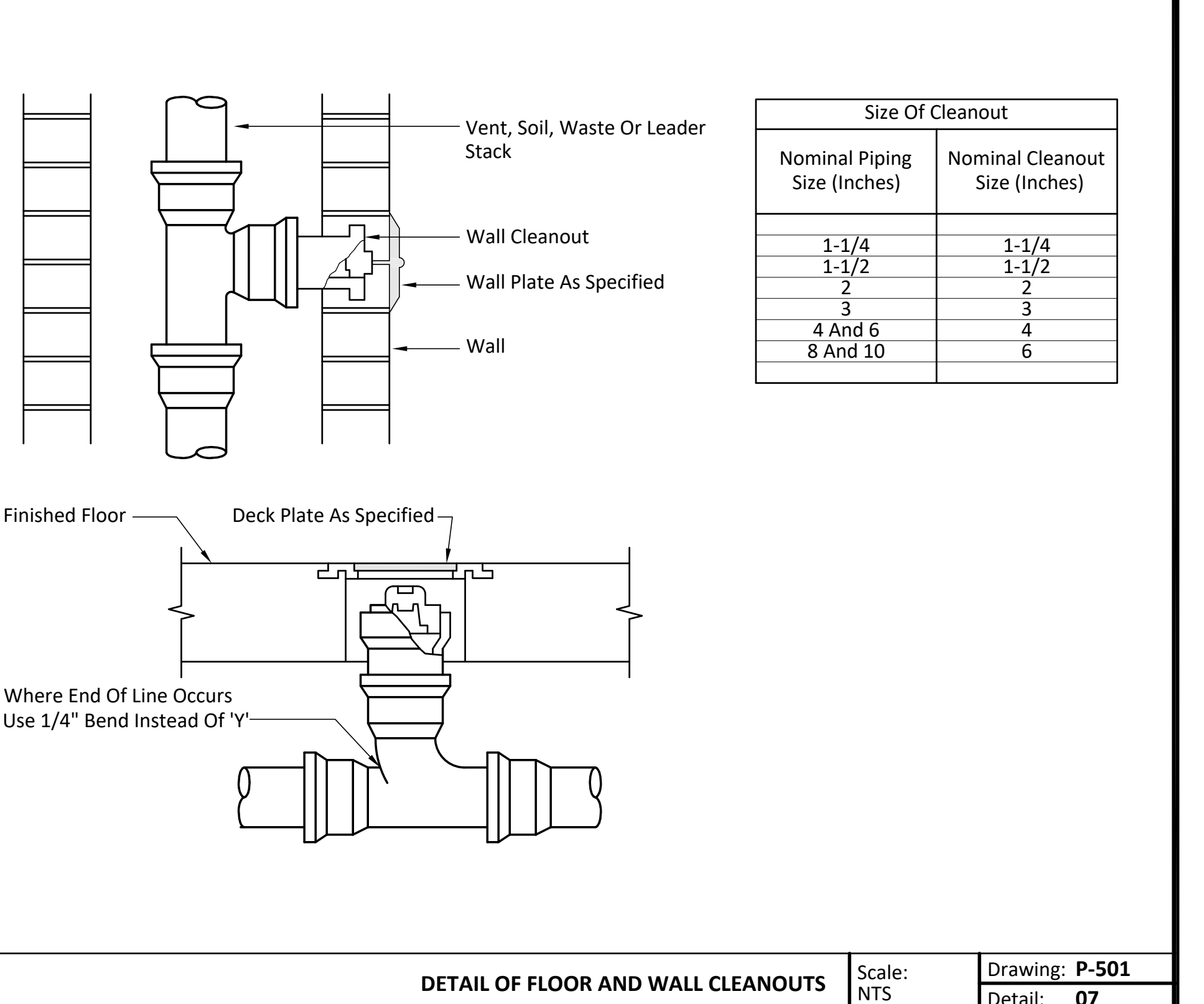
DOMESTIC HOT WATER IN LINE CIRCULATOR PUMP DETAIL Scale: NTS Drawing: P-501 Detail: 05

1. Wall Assembly — The 1 Or 2 Hour Fire Rated Gypsum Board/Stud Wall Assembly Shall Be Constructed Of The Materials And In The Manner Specified In The Individual U300, U400, V400 Or W400 Series Wall And Partition Design In The UL Fire Resistance Directory And Shall Include The Following Construction Features:
 A. Studs — Wall Framing May Consist Of Either Wood Studs Or Steel Channel Studs. Wood Studs To Consist Of Nominal 2 Inch By 4 Inch (51 mm By 102 mm) Lumber Spaced 16 Inch (406 mm) On Center. Steel Studs To Be Minimum 3-1/2 Inch (89 mm) Wide And Spaced Maximum 24 Inch (610 mm) On Center.
 B. Gypsum Board* — 5/8 Inch (16 mm) Thick, 4 Foot (122 cm) Wide, With Square Or Tapered Edges. Thickness, Type, Number Of Layers And Fasteners As Specified In The Individual Wall And Partition Design. Maximum Diameter Of Opening Is 8 Inch (203 mm).
 The Hourly F And FH Ratings Of The Firestop System Are Equal To The Hourly Fire Rating Of The Wall Assembly In Which It Is Installed. The Hourly T, FT And FTH Ratings Of The Firestop System Are 1 Hour For 2 Hour Fire Rated Walls And 0 Hour For 1 Hour Fire Rated Walls.
 2. Through Penetrant — One Metallic Pipe Or Tube To Be Installed Eccentrically Or Concentrically Within The Firestop System. Pipe Or Tube To Be Rigidly Supported On Both Sides Of The Wall Assembly. The Following Types And Sizes Of Metallic Pipes And Tubes May Be Used:
 A. Steel Pipe — Nominal 4 Inch (102 mm) Diameter (Or Smaller) Schedule 5 (Or Heavier) Steel Pipe.
 B. Iron Pipe — Nominal 4 Inch (102 mm) Diameter (Or Smaller) Cast Or Ductile Iron Pipe.
 C. Copper Pipe — Nominal 4 Inch (102 mm) Diameter (Or Smaller) Regular (Or Heavier) Copper Pipe.
 D. Copper Tube — Nominal 4 Inch (102 mm) Diameter (Or Smaller) Type L (Or Heavier) Copper Tube.
 3. Pipe Covering* — Minimum 1 Inch (25 mm) To Maximum 1-1/2 Inch (38 mm) Thick Hollow Cylindrical Heavy Density (3.5 pcf Or 24 Kg/m³) Glass Fiber Units Jacketed On The Outside With An All Service Jacket. Longitudinal Joints Sealed With Metal Fasteners Or Factory-Applied Self-Sealing Lap Tape. Transverse Joints Secured With Metal Fasteners Or With Butt Tape Supplied With The Product. The Annular Space Between The Insulated Pipe And The Periphery Of The Opening Shall Be Minimum 0 Inch (Point Contact) To Maximum 7/8 Inch (22 mm). When Pipe Covering Material Thickness Is Less Than 1-1/2 Inch (38 mm), The T, Ft And FTH Ratings Are 0 Hour.
 See Pipe Equipment Covering — Materials — (BRGU) Category In The Building Materials Directory For Names Of Manufacturers. Any Pipe Covering Material Meeting The Above Specifications And Bearing The UL Classification Marking With A Flame Spread Index Of 25 Or Less And A Smoke Developed Index Of 50 Or Less May Be Used.
 4. Fill, Void Or Cavity Material* — Sealant — Minimum 5/8 Inch (16 mm) Thickness Of Fill Material Applied Within Annulus, Flush With Both Surfaces Of Wall Assembly. At Point Contact Location, Minimum 1/2 Inch (13 mm) Diameter Bead Of Fill Material Applied At Insulated Metallic Pipe/Wall Interface On Both Surfaces Of Wall. L Ratings Apply Only When FS-One Sealant Is Used.
 Hilti Construction Chemicals, Division Of Hilti Inc — FS-One Sealant, FS-One Max Intumescent Sealant, CFS-5-SIL GG Sealant, CP 606 Sealant Or CP 6015 Sealant.
 * Indicates Such Products Shall Bear The UL Or cUL Certification Mark For Jurisdictions Employing The UL Or cUL Certification (Such As Canada), Respectively.

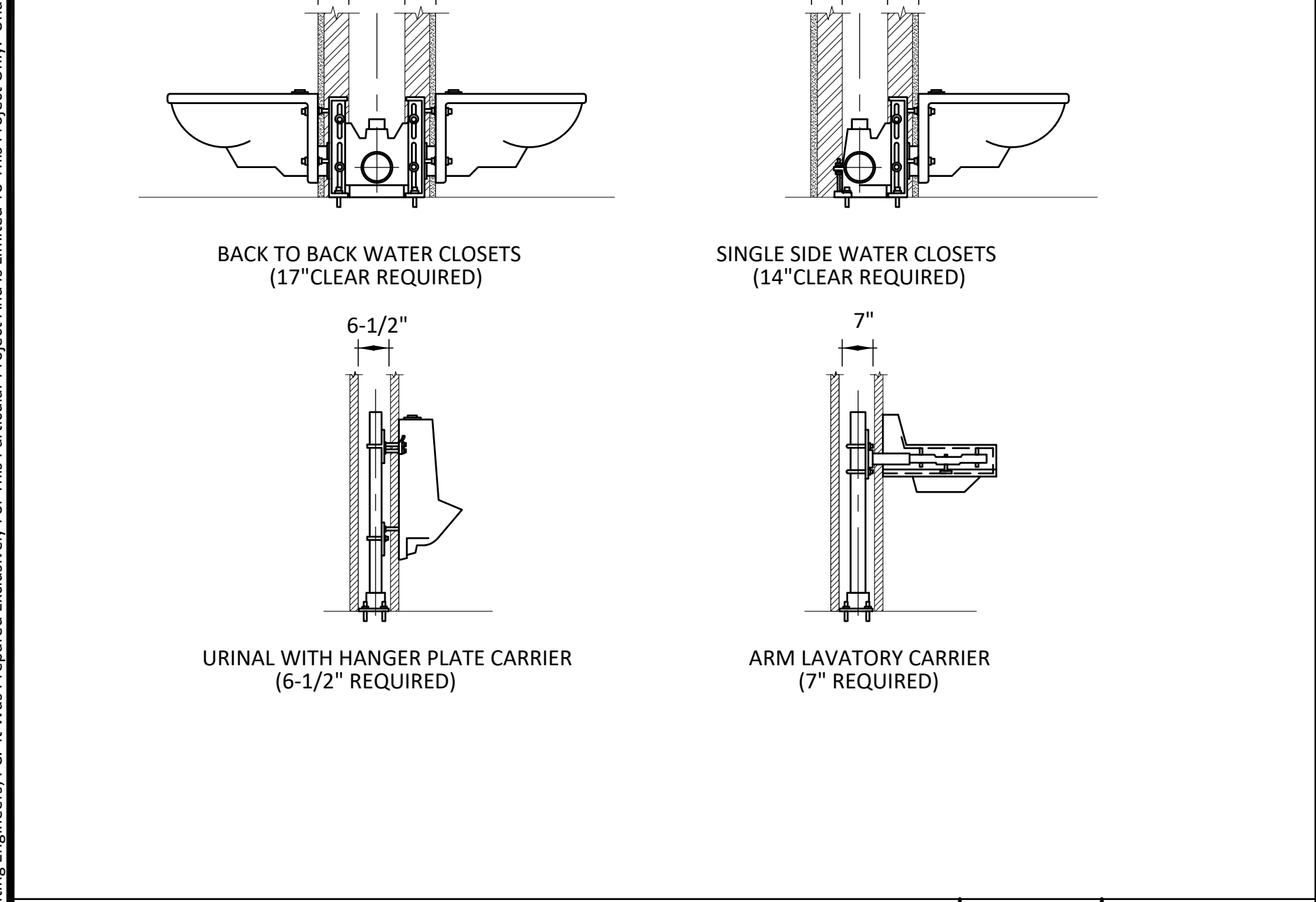
THROUGH PENETRATION FIRESTOP SYSTEM - PIPE PENETRATION - 1 HOUR RATING Scale: NTS Drawing: P-501 Detail: 06



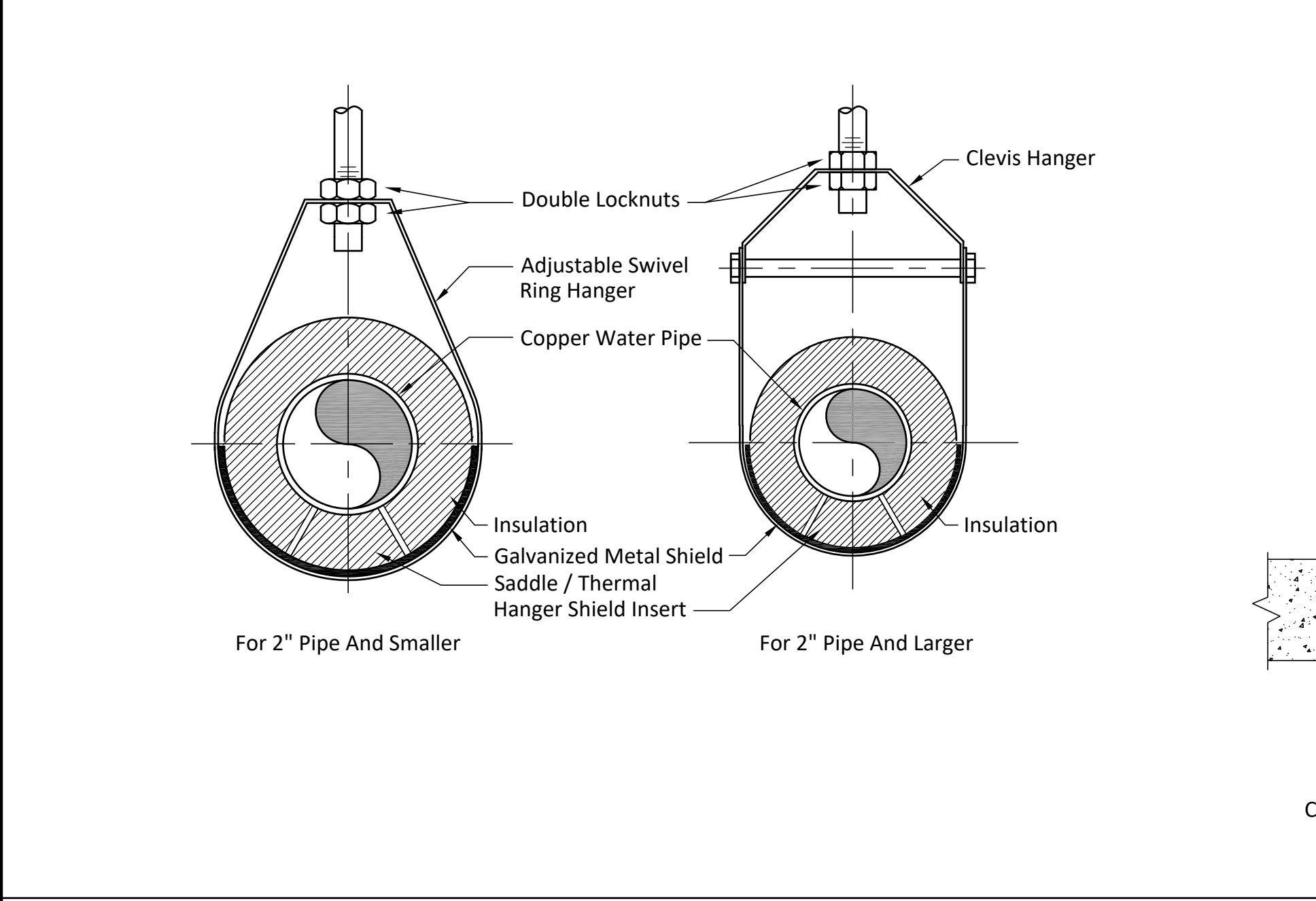
THROUGH PENETRATION FIRESTOP SYSTEM - PIPE PENETRATION - 1 HOUR RATING Scale: NTS Drawing: P-501 Detail: 06



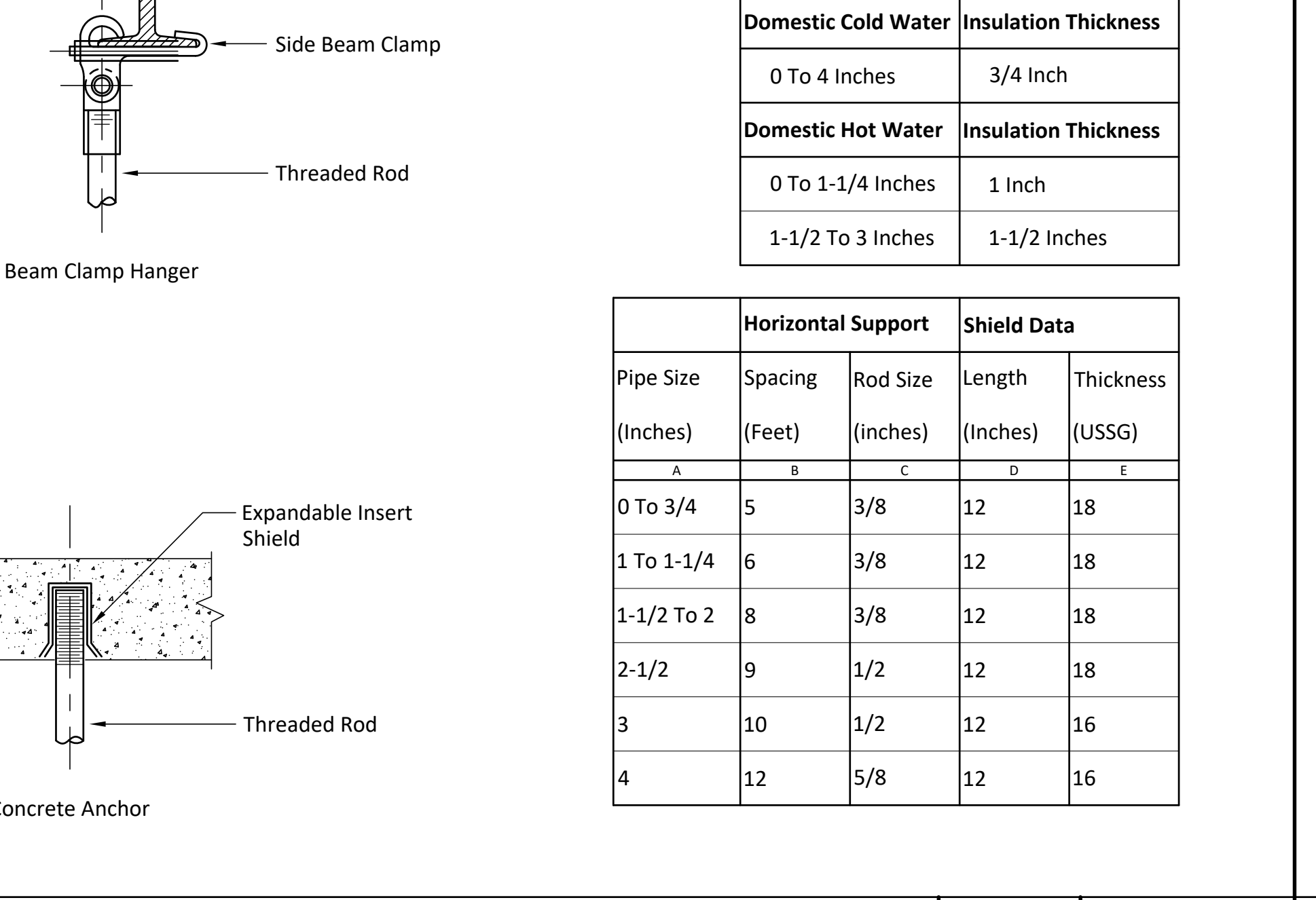
DETAIL OF FLOOR AND WALL CLEANOUTS Scale: NTS Drawing: P-501 Detail: 07



PLUMBING CHASE REQUIREMENTS IN STUD WALL Scale: NTS Drawing: P-501 Detail: 08



DOMESTIC WATER PIPE SUPPORTS Scale: NTS Drawing: P-501 Detail: 09



MASTER GAS CONTROL VALVE Scale: NTS Drawing: P-501 Detail: 10

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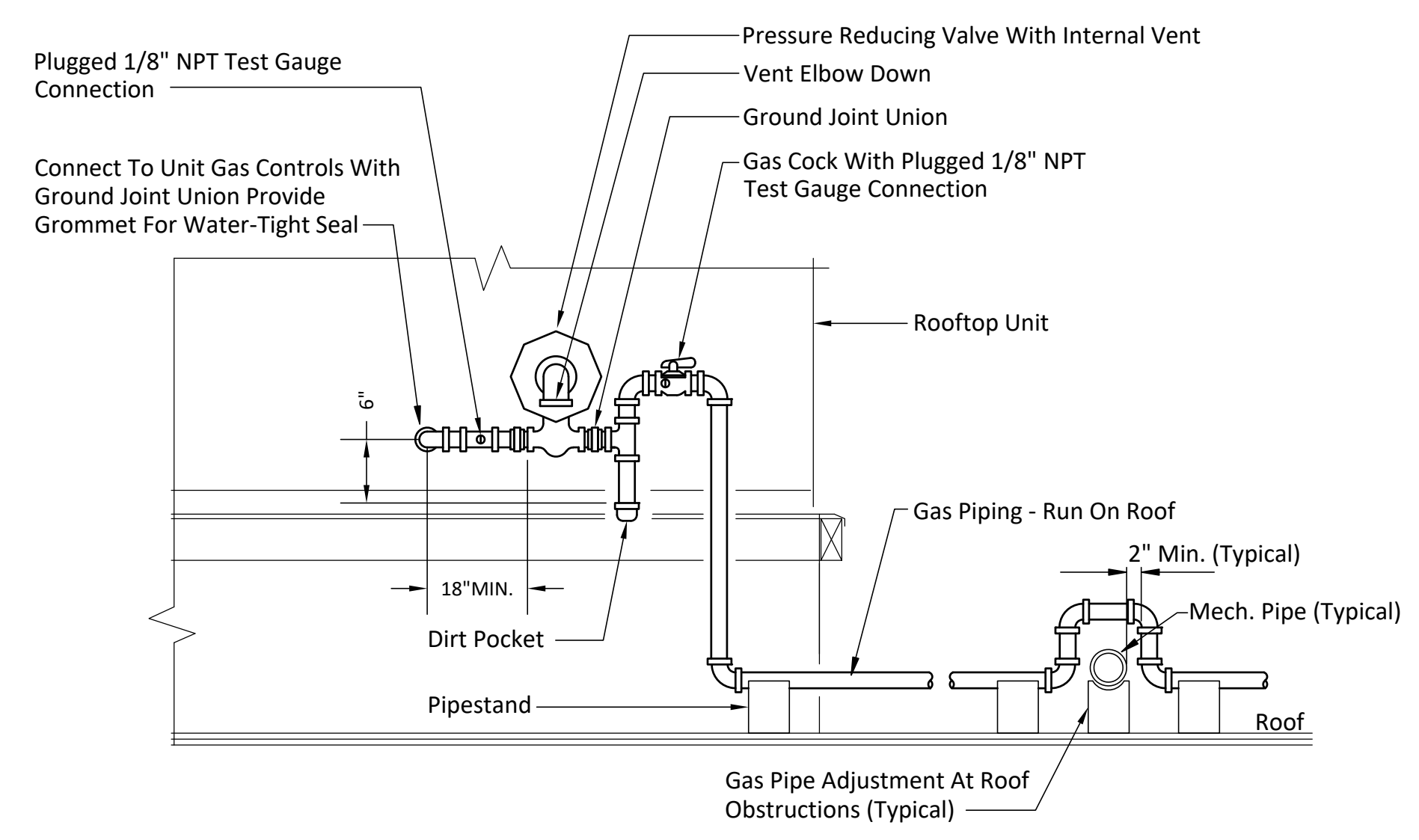
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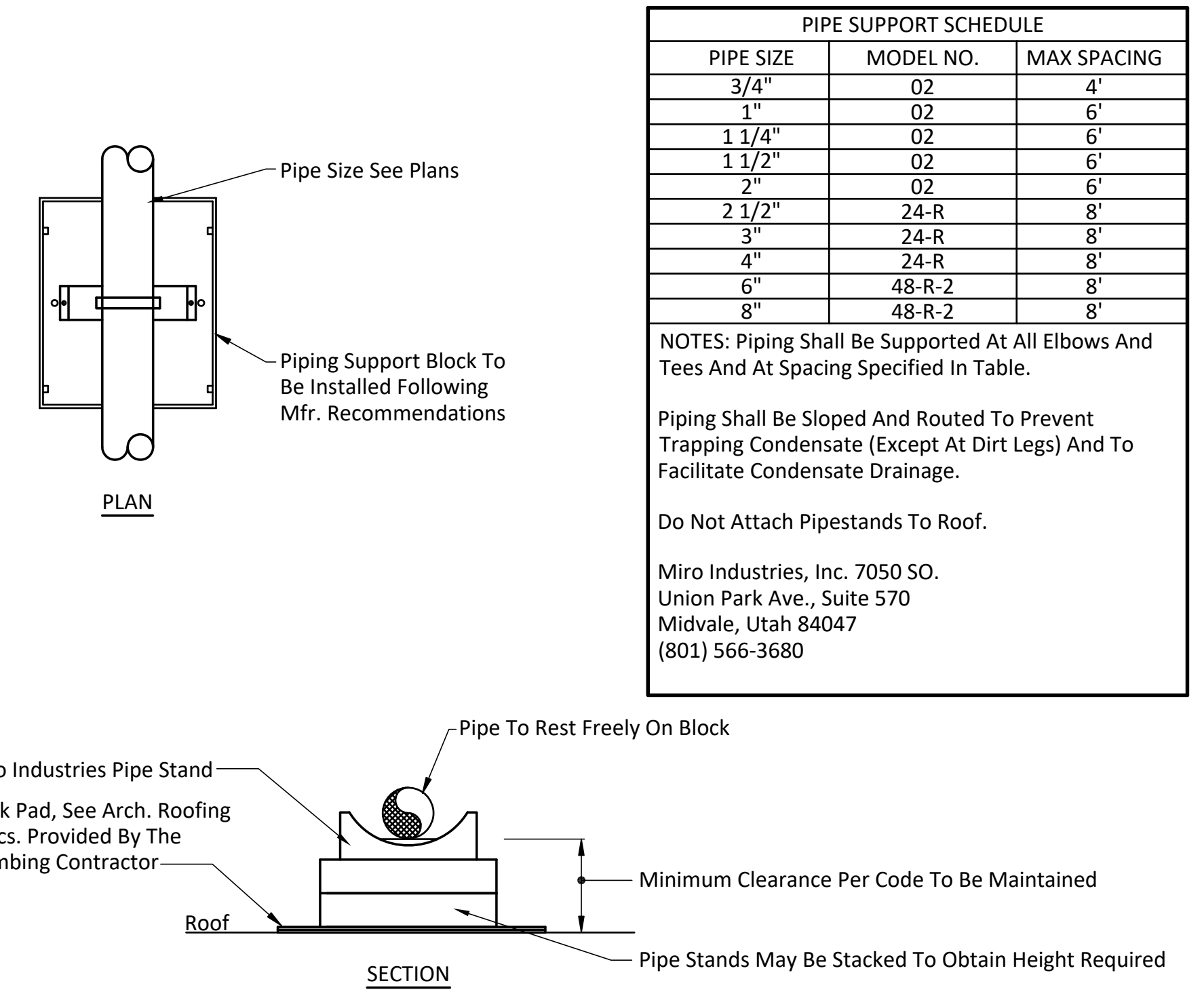
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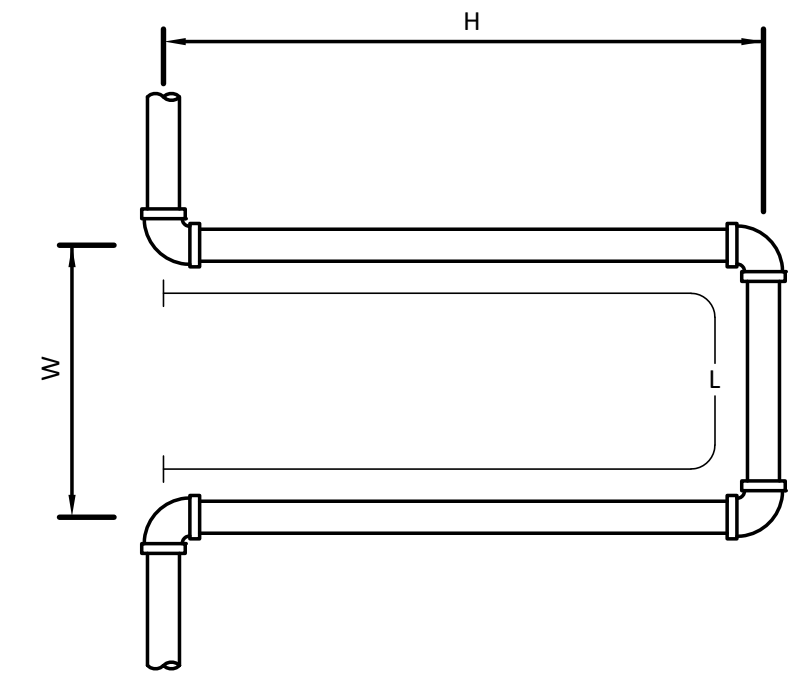


NOTES:
1. Contractor Shall Verify All Mechanical Gas Fired Equipment Connection Locations In The Field Prior To Installing Any Gas Pipe Mains Or Branches.
2. Plumbing Contractor To Install Pipestands And Roofing Contractor To Install Waterproofing / Membrane As Required To Maintain Warranty.

TYPICAL GAS PIPING CONNECTION DETAIL Scale: NTS Drawing: P-502 Detail: 01



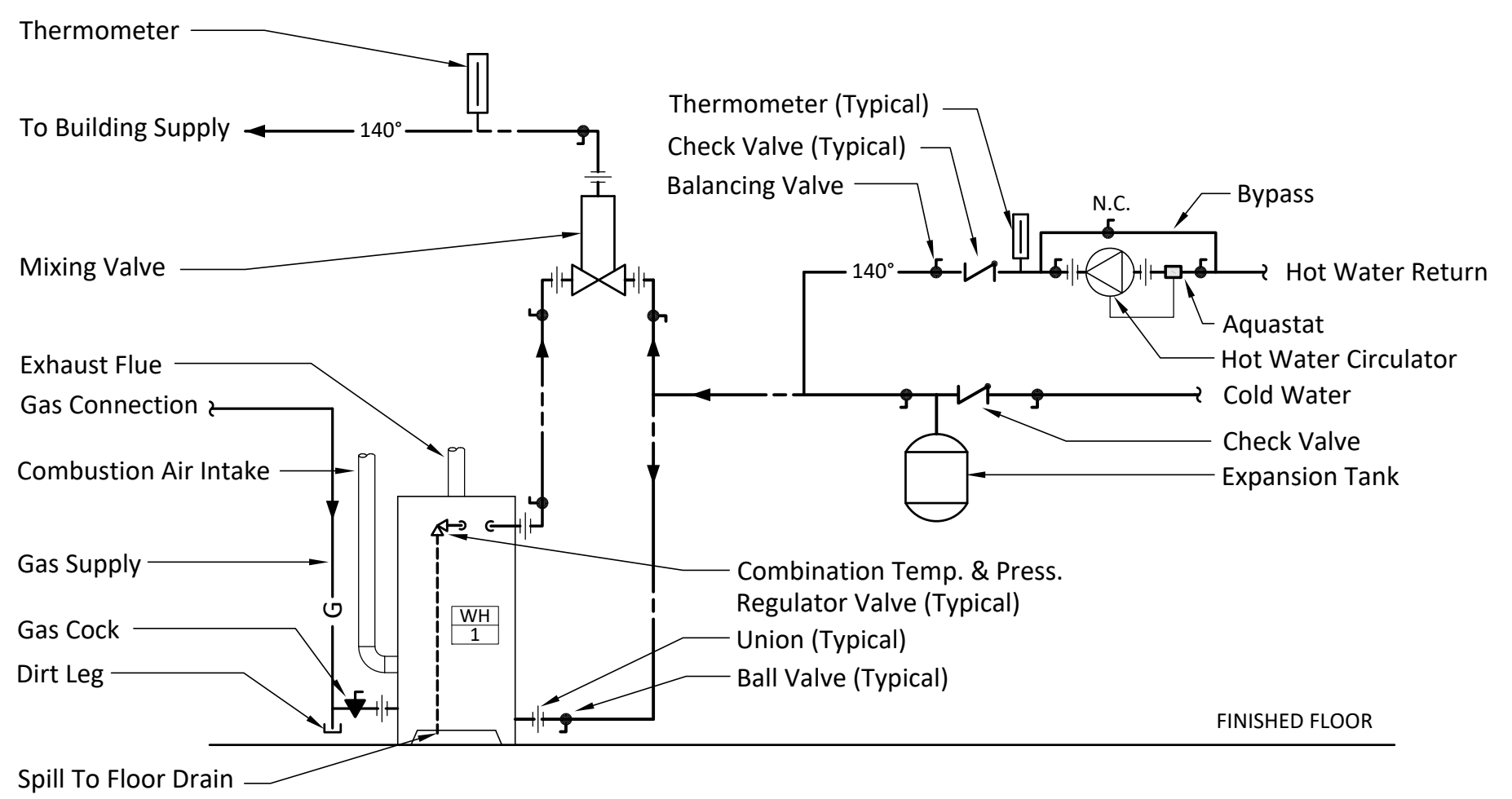
PIPING ON ROOF SUPPORT DETAILS Scale: NTS Drawing: P-502 Detail: 02



Copper Expansion Loop Spacing And Developed Lengths Of Expansion Offsets											
Lowest Ambient Temp To Max Design Temp	Expected Expansion (Inches)	Length "L" For Nominal Or Standard Tube Sizes Shown (Inches)									
		3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"
A	B	C	D	E	F	G	H	I	J	K	L
50° F	1/2	60	70	75	80	95	105	115	120	130	145
51° - 95° F	1	85	95	105	115	130	145	160	170	180	205
96° - 140° F	1 1/2	105	115	130	140	160	180	195	210	220	245

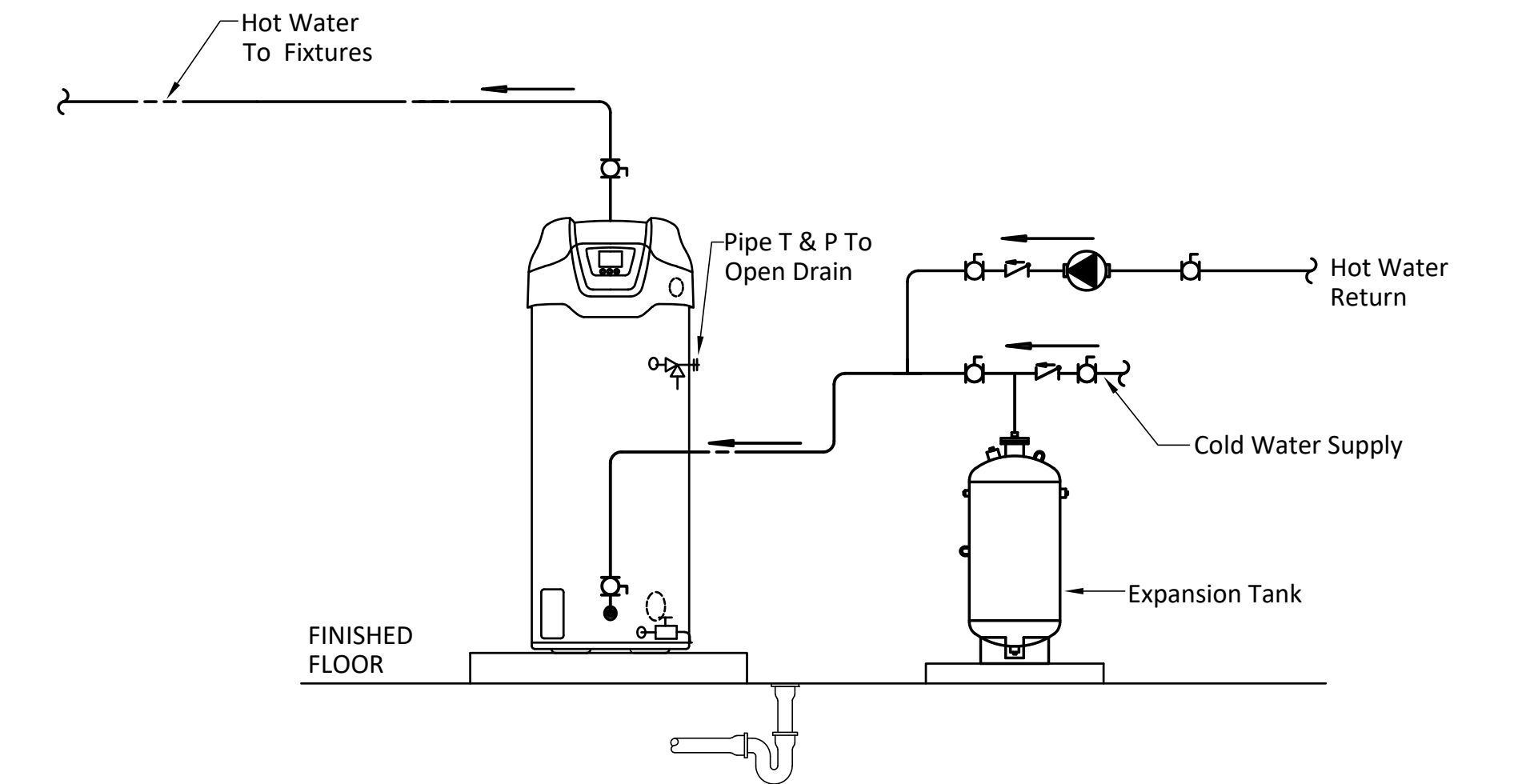
NOTES:
1. A Double Offset "U" Bent Pipe Loop May Be Used Provided Its Developed Length Is Equal To That Given For The Length "L".
2. Loop Length Designed For Maximum Of 1 1/2" Expansion.
3. Loops Should Be Placed Every 100 Feet.
4. H ≥ 2xW.

FOUR ELBOW COPPER EXPANSION LOOP Scale: NTS Drawing: P-502 Detail: 03



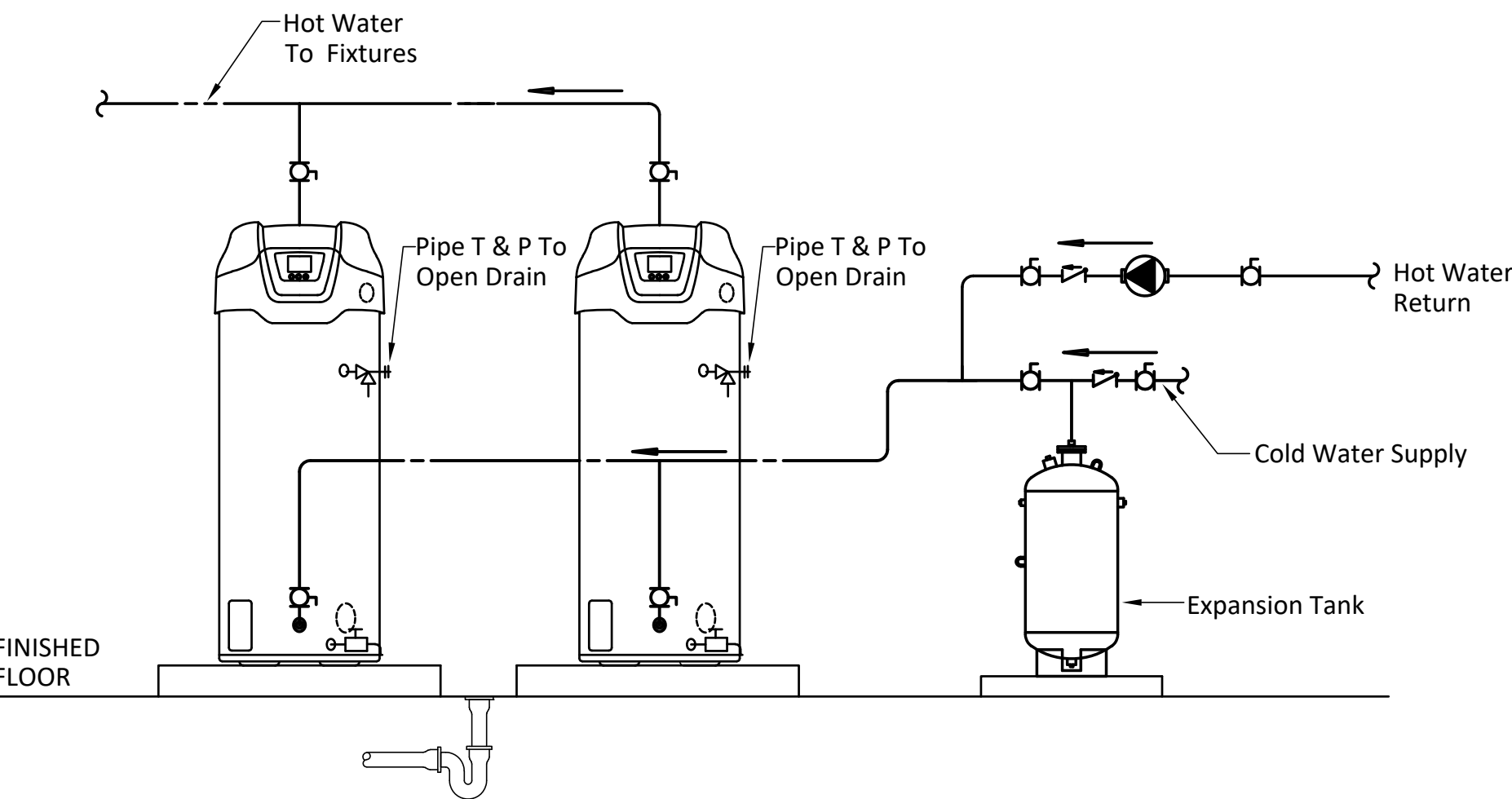
NOTES:
1. Temperature / Pressure Relief Valve To Discharge To Local Floor Drain With Air Gap In Accordance With IMC 2009 And NSPC 2009.

GAS FIRED WATER HEATER DETAIL Scale: NTS Drawing: P-502 Detail: 04



NOTES:
1. Preferred Piping Diagram.
2. The Temperature And Pressure Relief Valve Setting Shall Not Exceed Pressure Rating Of Any Any Component In The System.
3. Service Valves Are Shown For Servicing Unit. However, Local Codes Shall Govern Their Usage.

WATER HEATER DETAIL - 1 Scale: NTS Drawing: P-502 Detail: 05



NOTES:
1. Preferred Piping Diagram.
2. The Temperature And Pressure Relief Valve Setting Shall Not Exceed Pressure Rating Of Any Any Component In The System.
3. Service Valves Are Shown For Servicing Unit. However, Local Codes Shall Govern Their Usage.

WATER HEATER DETAIL - 2 Scale: NTS Drawing: P-502 Detail: 06

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SHEET CONTENTS:

PLUMBING DETAILS

SUBMISSIONS		REVISIONS		DATE	02.22.2017
DATE	DESCRIPTION	DATE	DESCRIPTION	SCALE	AS NOTED
10.03.16	100% ISSUE			DRWN BY	CAD
10.17.16	BID SET			CHKD BY	DLB
02.22.17	REBID SET			JOB NO	12285
				SHEET	OF:
				DRWG NO	

P-502

WATER HEATER SCHEDULE						
ITEM	QUANTITY	DESCRIPTION	MFG	MODEL	REMARKS	ITEM
HWH-1	2	Cyclone MXI Commercial Gas Water Heater	A.O. SMITH	BTR 250 (A)	250 MBH, 100 Gallon, Recovery: 242 GPH Rise @100 degrees F, Include Amtrrol Expansion Tank For System Volume.	HWH-1
HWH-2	1	Cyclone MXI Commercial Gas Water Heater	A.O. SMITH	BTR 120	120 MBH, 71 Gallon, Recovery: 116 GPH Rise @ 100 Degrees F.	HWH-2

EQUIPMENT SCHEDULE										
Item No.	Quantity	Equipment	Connection Sizes				Manufacturer	Model Number	Comments	
			CW	HW	SAN	NG				
A	B	C	D	E	F	G	H	I	J	
TURNSTAND										
TS01	1	Hand Sink, Wall Mount	1/2"	1/2"	1-1/2"		Advance Tabco	7-PS-60		
TS05	1	Dispenser, Beer			3/4"		Perlick	DD560		
TS07	1	Underbar Handsink	1/2"	1/2"	1-1/2"		Perlick	TS12HSN		
TS10	1	Underbar Ice Chest			1/2"		Perlick	TS30C10		
TS15	1	Sink, 3 Compartment	1/2"	1/2"	1-1/2"		SPG	MS-3N1014-2D12		
TS16	1	Pre-Rinse Faucet	1/2"	1/2"						
TS24	1	Coffee Maker, Automatic	3/8"				Bunn	23400.0047		
BAR / LOUNGE										
B4	3	Underbar Ice Chest			1/2"		Krowne	KR18-30-10		
B11	1	Underbar Handsink, Soap & Towel	1/2"	1/2"	1-1/2"		Krowne	KR18-12DST		
B12	1	Glasswasher		1/2"	5/8"		Krowne	GWD-24		
KITCHEN										
1	1	Ice Maker W/ Bin	1/2"		(2)3/4"		Hoshizaki America	KM-16015AH	W/ Filter	
1	-	Ice Maker Dew Drain			3/8"					
3	1	Beverage Counter W/ Sink	1/2"	1/2"	1"		SPG	BC-72L		
4	1	Soda Dispenser	3/8"		3/4"		Cornelius	2323 Universal	By Coca Cola	
5	1	Coffee Maker, Automatic	3/8"				Douwe Egberts	C-700	By Others	
7	1	Hand Sink	1/2"	1/2"	1-1/2"		SPG	EHS-1RL		
9	1	Pre-Rinse Faucet, Wall Mount	1/2"	1/2"			T & S Brass	B-0133-B		
11	1	Warewasher, Rack Conveyor		1/2"	1-1/2"		Ecolab	EC-44		
13	1	Clean Dish Table/3 Comp Sink	1/2"	1/2"	1-1/2"		SPG	Custom Fabrication		
14	1	Hand Sink	1/2"	1/2"	1-1/2"		SPG	EHS-1RL		
19	1	Hand Sink	1/2"	1/2"	1-1/2"		SPG	EHS-1RL		
21	1	Oven-Steamer, Combi., Gas	(2)3/4"		1-1/2"	(2)3/4"	Alto-Shaam	CTC7-20G		
24	1	Table, Work	1/2"	1/2"	1-1/2"		Universal Stainless	Custom Fabrication	W/ Sink	
31	1	Range, Restaurant, Gas				3/4"	Vulcan	36C-6B-N	On Top Of Item #23.1	
32	1	Griddle, Gas				3/4"	Vulcan	MSA36		
33	1	Broiler, Gas, Counter				3/4"	Vulcan	VACB36		
35	1	Fryer Battery, Gas W/Filter				1-1/4"	Vulcan	3GR45MF		
39	1	Salamander Broiler				3/4"	Vulcan	36RB		
52	2	Floor Trough			4"		Eagle Group/Metal Masters	FT-1248-SG		
GENERAL										
DF	1	Bottle Filling Station	3/8"		1-1/4"		Eikay	EZH20, LZSBWSSP	Filtered	
WC	11	Toilet	1-1/2"		2"		Kohler	Kingston, K-4325	1.28 GPF, Elongated	
UR	4	Urinal	3/4"		2"		Kohler	Bardon, K-4991-ET	1/8 GPF	
LAV	14	Bathroom Sink	3/8"	3/8"	1-1/4"		Kohler	Caxton, K-2210	Under Mount	
LAV1	1	Bathroom Sink	3/8"	3/8"	1-1/4"		Kohler	Kingston, K-2007	Wall Mounted	
SK	1	Kitchen Sink	1/2"	1/2"	1-1/2"		Kohler	Vault, K-3822-1	Top Mount / Under Mount, SS	
MS	1	Service Sink	1/2"	1/2"	3"		Kohler	Bannon, K-6714	Cast Iron	
FS	5	Floor Sink			4"		Josam	49320A-1F	Cast Iron	
HWH-1	2	Hot Water Heater	1-1/2"		3/4"	3/4"	AO Smith	BTH-250 Mxi	100 Gallons, Natural Gas, 140°F	
HWH-2	1	Hot Water Heater	1-1/2"		1/2"		AO Smith	BTR-199		
GI	2	Grease Interceptor			3"		Retroceptor	RC 25LP	Low Profile	
FD		Floor Drain			4"		Josam	E Series	Cast Iron Strainer	

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