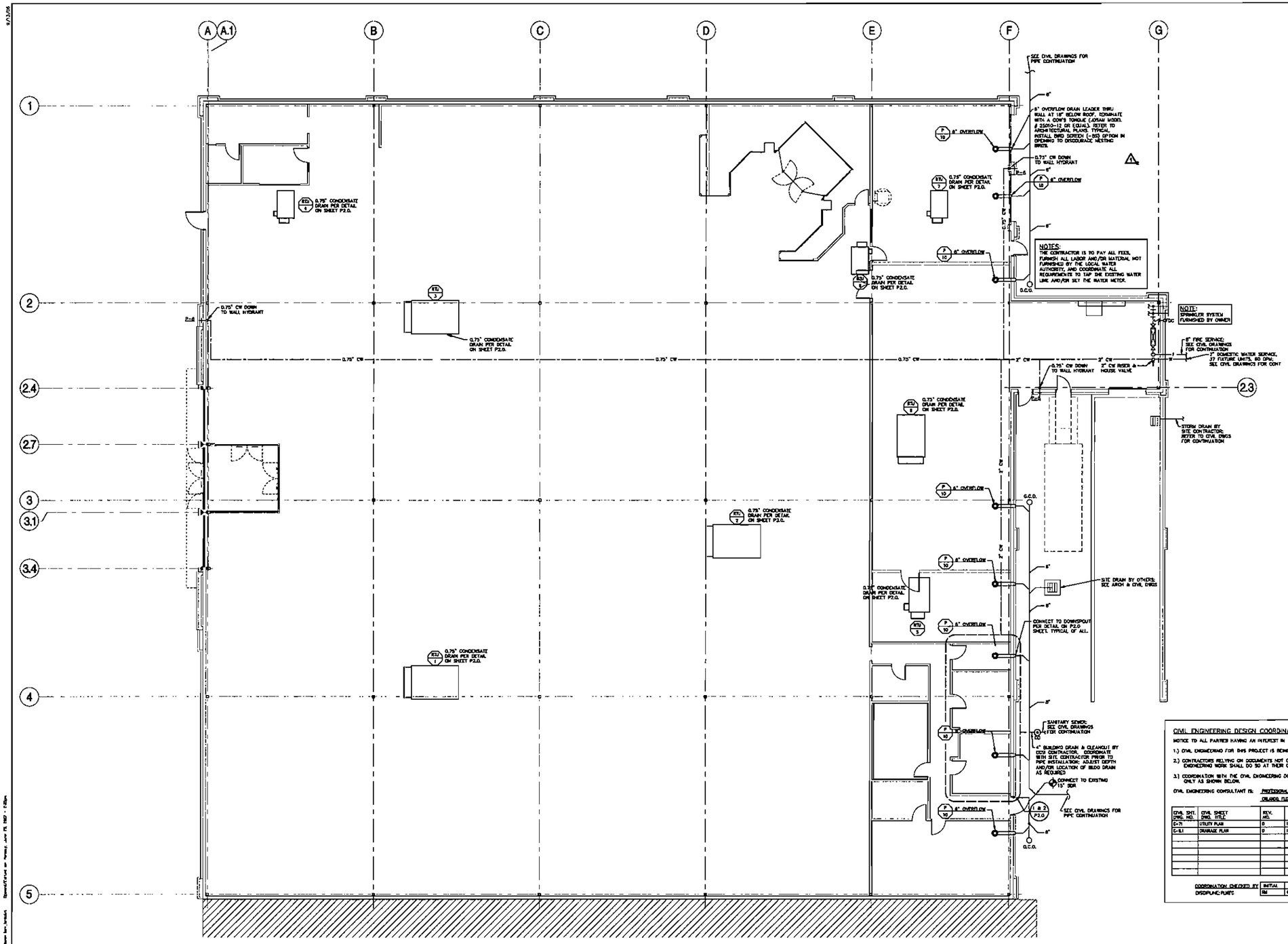


CIVIL ENGINEERING DESIGN COORDINATION NOTICE

NOTICE TO ALL PARTIES HAVING AN INTEREST IN THIS CONSTRUCTION PROJECT:

1.) CIVIL ENGINEERING FOR THIS PROJECT IS BEING PERFORMED BY OTHERS.

2.) CONTRACTORS RELYING ON DOCUMENTS NOT COORDINATED WITH THE CIVIL ENGINEERING WORK SHALL DO SO AT THEIR OWN RISK.

3.) COORDINATION WITH THE CIVIL ENGINEERING DOCUMENTS HAS BEEN COMPLETED ONLY AS SHOWN BELOW.

CIVIL ENGINEERING CONSULTANT IS: PROFESSIONAL ENGINEERING CONSULTANTS, INC. ORLANDO, FLORIDA

CIVIL SHT. DWG. NO.	CIVIL SHEET DWG. TITLE	REV. NO.	REV. DATE	REV. NO.	REV. DATE	REV. NO.	REV. DATE
C-7.1	UTILITY PLAN	0	11/28/06				
C-8.1	DRAINAGE PLAN	0	11/28/06				

COORDINATION CHECKED BY	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DISCIPLINE: PLMBG	RM	1/3/07				

NOTE:
REFER TO STRUCTURAL DRAWINGS FOR NOTES REGARDING EQUIPMENT SUPPORTED FROM THE ROOF FRAMING

FLOW TEST DATA

FLOW TEST DATE:	01-23-2007
TEST LOCATION:	CORNER OF THACKER & OSCEOLA PARKWAY
STATIC PRESSURE:	56 psi
RESIDUAL PRESSURE:	48 psi
FLOW:	1850 gpm

FLOW TEST DATA IS GIVEN AS A GENERAL REFERENCE ONLY. THE FIRE PROTECTION CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATION REGARDING WATER SUPPLIES. COMPUTATIONS CONTRACTOR ADVANTAGEOUS TO AT THEIR OWN RISK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR CONTRACTOR'S FAILURE TO ACCURATELY DETERMINE WATER SUPPLIES. SEE SPECIFICATIONS SECTION 13936

NORTH

PLUMBING FLOOR PLAN

SCALE: 1/8"=1'-0"

TO ORDER PLANS GO TO WWW.LD

CASCO PROJECT MANAGERS
TEL: (1.800.760.8289)
FAX: (1.407.718.0)
PM: RICHARD
LOCAL SUPERVISOR: BRIAN R. WALCH

Rev. #	Date	Description	By
1	1/3/08	PERMIT PLANS REVIEW CODE COMMENT RESPONSE	BD

Drawn by: AMM
Checked by: RMB
Date: AS NOTED
Approved:

Project Manager: ORLANDO
Drawing Number: K5SGMMEE
Site Name/City/State: THE LOOP WEST SHOPPING CENTER
Drawing Description: PLUMBING FLOOR PLAN

CIRCUIT CITY STORES, INC.
9950 MAYLAND DRIVE RICHMOND, VA. 23233
804-527-4000

Store # FL 4130
Layout # 1
Prototype Type H30

Phase: CONTRACT
Sheet No. P1.0

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	WASTE	VENT	H.W.	C.W.	REMARKS
P-1	WATER CLOSET (GENERAL USE)	4"	2"	–	1"	KOHLER K-4350 WITH SEAT AND SLOAN REGAL 111 FLUSH VALVE (1.6GPF)
P-1A	WATER CLOSET (ADA COMPLIANT)	4"	2"	–	1"	KOHLER K-4302 WITH SEAT AND SLOAN REGAL 111 FLUSH VALVE (1.6 GPF)
P-2	URINAL (ADA COMPLIANT)	2"	2"	–	1"	KOHLER 6016-ET WITH CARRIER AND SLOAN REGAL 186-1 FLUSH VALVE (1.0 GPF)
P-3	LAVATORY (GENERAL USE)	1.5"	1.5"	0.50"	0.50"	KOHLER K-1726 WITH K-15097 FAUCET (SET @ 110° F) AND CARRIER
P-3A	LAVATORY (ADA COMPLIANT)	1.5"	1.5"	0.50"	0.50"	KOHLER K-12836-8 WITH K-15097 FAUCET (SET @ 110° F), K-9619 SOAP DISPENSER AND CARRIER
P-4	SERVICE SINK (FIBERGLASS)	3"	1.5"	0.75"	0.75"	FIAT MSB2424 WITH 3" STRAINER, FAUCET, HOSE AND BRACKET
P-5	BI-LEVEL DRINKING FOUNTAIN (ADA COMPLIANT)	1.25"	1.5"	–	0.50"	WALL HUNG: ELKAY EDFP217C (NON-REFRIGERATED) AND CARRIER
P-6	WALL HYDRANT (WITH INTEGRAL VACUUM BREAKER)	–	–	–	0.75"	JAY R. SMITH FREEZE-PROOF WALL HYDRANT MODEL 5509(NB) RECESSED BOX WITH LOCKING COVER
P-7	ELECTRIC WATER HEATER (10 GALLON)	–	–	0.75"	0.75"	STATE MODEL POE-10, 208V/1Ø, 2kW
P-8	WATER HAMMER ARRESTER	–	–	–	–	JAY R. SMITH MODEL 5020
P-9	NOT USED					
P-10	ROOF OVERFLOW DRAIN (SIZE PER PLANS)	–	–	–	–	JAY R. SMITH MODEL 1080 – WITH 2" EXTERNAL WATER DAM
P-11	FLOOR DRAIN	3"	1.5"	–	–	JAY R. SMITH MODEL 2005 WITH FIELD-INSTALLED TRAP WITH DEEP SEAL

- ALL ITEMS ABOVE FURNISHED BY OWNER
- ALL FIXTURES LISTED ABOVE MAY NOT BE REQUIRED FOR THIS PROJECT
- FLOOR-MOUNTED SUPPORTS WILL BE FURNISHED FOR WALL-HUNG FIXTURES
- ALL FIXTURES LISTED AS "ADA COMPLIANT" SHALL BE ACCESSIBLE TO INDIVIDUALS WITH DISABILITIES IN ACCORDANCE WITH THE "AMERICANS WITH DISABILITIES ACT OF 1990". FIXTURES AND THEIR INSTALLATION SHALL ALSO COMPLY WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) PUBLICATION A117.1 – "PROVIDING ACCESSIBILITY AND USABILITY FOR PHYSICALLY HANDICAPPED PEOPLE" AND/OR GOVERNING CODE.
- ALL PLUMBING FIXTURES, EQUIPMENT, TRIM, AND FITTINGS SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO, WATER AND ENERGY CONSERVATION CODES. IF THE SCHEDULED OR SPECIFIED FIXTURES OR EQUIPMENT DO NOT COMPLY WITH THE GOVERNING CODES IN ALL RESPECTS, THE CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR COMPLYING FIXTURES, EQUIPMENT, TRIM, OR FITTINGS. THE ABSENCE OF AN ALTERNATE BID SHALL BE CONSTRUED TO MEAN THAT THE CONTRACTOR'S BID INCLUDES ALL COSTS NECESSARY TO MEET ALL REGULATIONS AND CODES.
- INSULATE ALL PIPES BELOW LAVATORY "P-3A" WITH "TRUEBRO HAND-LAV GUARD" MODEL 103 OR EQUIVALENT.

FURNISHED BY OWNER PROGRAM

THE VENDOR SHALL REVIEW THE DRAWINGS FOR THE EXTENT OF WORK AND POSSIBLE VARIATIONS FROM THE PROTOTYPE, FOR ITEMS REQUIRED FOR THIS PROJECT. DO NOT RELY SOLELY ON THE FBO LIST.

TOILET ROOM LIST

PRODUCT	SUPPLIED BY	INSTALLED BY	POWER SUPPLY	ELECTRICAL CONNECTION	SPEC SECTION
PLUMBING FIXTURES	OWNER	CONTRACTOR	—	—	15400

SUPPLIER: APEX SUPPLY CO. CONTACT: JOHN LAIDI PHONE: 678-245-5460
1.) SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION
2.) CONTRACTOR TO REFER TO SPECIFICATION SECTION 01020 FOR FBO REQUIREMENTS

FIRE PROTECTION & ALARM SYSTEMS

PRODUCT	SUPPLIED BY	INSTALLED BY	POWER SUPPLY	ELECTRICAL CONNECTION	SPEC SECTION
FIRE PROTECTION, FIRE PUMP	OWNER	OWNER	–	CONTRACTOR	15800
FIRE ALARM SYSTEM, RTU DUCT SMOKE DETECTORS	OWNER	OWNER	CONTRACTOR	CONTRACTOR	16700

SUPPLIER: FVC – FIRE PROTECTION CONTACT: ARMANDO SWANSON PHONE: 405-753-3444
FVC – FIRE ALARM CONTACT: MICAL BIRCHBAUM PHONE: 334-738-1111
1.) SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION
2.) CONTRACTOR TO REFER TO SPECIFICATION SECTIONS 01014 AND 01020 FOR FBO REQUIREMENTS

PLUMBING LEGEND

- SANITARY DRAIN PIPING
- SD — STORM DRAIN PIPING
- G — GAS PIPING
- D — CONDENSATE DRAIN PIPING
- V — VACUUM LINE
- A — COMPRESSED AIR PIPING
- VENT PIPING
- COLD WATER PIPING
- HOT WATER PIPING
- PIPE TURNING UP
- PIPE TURNING DOWN
- CHECK VALVE
- GATE VALVE
- SLOPE DIRECTION
- WALL HYDRANT – MOUNT 18" ABOVE FIN. GRADE OR 6" A.F.F.
- GATE VALVE IN WATER RISER OR PIPE DROP – MOUNT 48" A.F.F.
- FLOOR DRAIN
- ROOF DRAIN
- CLEAN OUT (PLAN : DIAGRAM)
- GAS COCK (PLAN : DIAGRAM)
- DOUBLE CHECK DET BFP2 BACK FLOW PREVENTOR
- PRESSURE REDUCING VALVE WITH GAUGE
- UNION

BFF	BELOW FIN. FLOOR
TP	TRAP PRIMER
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
SCFM	CFM, STANDARD CONDITIONS
FDC	FIRE DEPARTMENT CONNECTION
WMG	WATER MOTOR GONG
A.C.	AIR COMPRESSOR
VC	VACUUM CLEANER
HW	HOT WATER
CW	COLD WATER
DISP	DISPLACEMENT
E.C.	ELECTRICAL CONTRACTOR
ELEC.	ELECTRICAL
DEL	DELIVERY
TSP	TOTAL STATIC PRESSURE
TEMP	TEMPERATURE
PSIG	PSI-GAUGE
H2O	WATER
V. RISER	VENT RISER
V.T.R.F.	VENT THRU ROOF, FLASHED

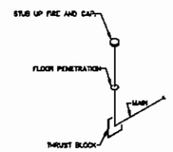
PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES.
2. ALL EQUIPMENT AND MATERIALS CAPABLE OF BEING UL LABELED OR LISTED SHALL BEAR THE UL LABEL.
3. ALL DIMENSIONS SHOWN ON DRAWINGS ARE FOR CONVENIENCE AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD PRIOR TO INSTALLATION.
4. PROVIDE COLD WATER, HOT WATER, HORIZONTAL STORM DRAIN PIPES, AND ROOF DRAIN BODIES WITH INSULATION PER SPECIFICATION SECTION 15.
5. ENTIRE BUILDING SHALL BE SPRINKLERED IN ACCORDANCE WITH NFPA-13 AND 231-C.
6. DO NOT LOCATE SPRINKLER PIPING, PLUMBING PIPING, EQUIPMENT, ETC. OVER ELECTRICAL PANELS.
7. ROOFTOP UNITS SHALL BE PROVIDED WITH TRAPPED CONDENSATE DRAINS THE SAME SIZE AS THE UNIT CONNECTION. THE DRAIN PIPING SHALL BE ROUTED TO AVOID INTERFERING WITH ACCESS PANELS AND GENERAL MAINTENANCE OF THE UNITS. CONDENSATE PIPING SHALL BE PVC (PAINTED FOR UV PROTECTION) OR COPPER AS INDICATED ON THE DRAWINGS AND IN SPECIFICATION SECTION 13.
8. PAINT ALL EXPOSED STEEL PIPING ON THE ROOF WITH RUST-INHIBITING PAINT.

PLUMBING FIXTURE REQUIREMENT

TOTAL OCCUPANCY (TABLE 403.1) — TOTAL OCCUPANCY (M) = 696; 696/2 = 348 MEN = 348 WOMEN

FIXTURE	REQUIRED	PROVIDED
W.C. MALE	348 : 1	1 W.C. + 1 URINALS
W.C. FEMALE	348 : 1	3 W.C.
LAVATORY (EACH SEX)	348 : 1	3 LAV. (EACH)
DRINKING FOUNTAIN	1 PER 1000 : 1	2 D.F.
SERVICE SINK	1 SERVICE SINK : ID	1 SERVICE SINK

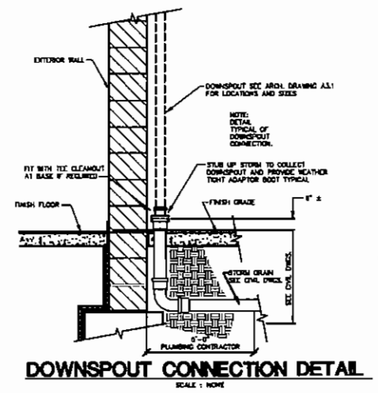


COORDINATE WITH FIRE PROTECTION PLANS FOR LOCATION WITHIN THE RISER/WATER AREA.

FIRE SPRINKLER RISER DIAGRAM

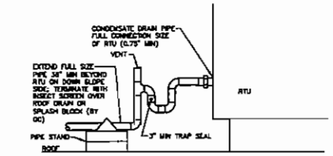
SCALE : NONE

FLOW AND TAMPER SWITCHES SHALL BE PROVIDED BY THE SPRINKLER CONTRACTOR WITH FIRE ALARM CONNECTIONS BY THE ALARM CONTRACTOR.



DOWNSPOUT CONNECTION DETAIL

SCALE : NONE



RTU CONDENSATE DRAIN DETAIL

SCALE : NONE

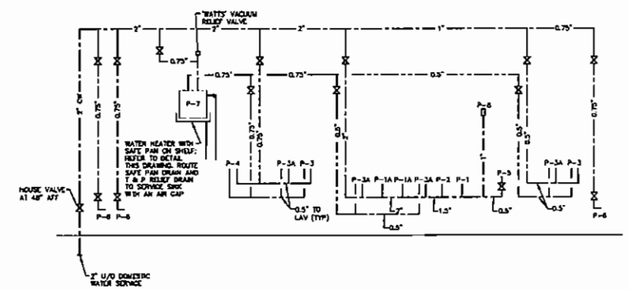
NOTES:
1. PIPING SHALL BE SUPPORTED AT ALL ELBOWS AND TEES AND AT SPACING SPECIFIED IN TABLE BELOW. PIPING SHALL BE SLOPED AND ROUTED TO PREVENT TRAPPING CONDENSATE (EXCEPT AT DIRT LEGS) AND TO FACILITATE CONDENSATE DRAINAGE.
2. PIPING AND PENETRATIONS THRU ROOF SHALL BE AS CALLED FOR IN SPECIFICATIONS SECTION 15 OR AS REQUIRED BY LOCAL CODES.
3. PIPESTAND SHALL BE "PIPE, INC. YELLOWBLOCK" MODEL 1.5 (UP TO 3"), 6-R (UP TO 4"), AND 8-R2 (OVER 4").
4. DO NOT ATTACH PIPESTANDS TO ROOF.

PIPE SIZE	MODEL NO.	MAX SPACING
0.75"	1.5	6'
1.00"	1.5	7'
1.25"	1.5	8'
1.50"	1.5	10'
2.00"	3-R	10'
2.50"	3-R	12'
3.00"	3-R	12'
4.00"	6-R	6'
5.00"	8-R2	10'
6.00"	8-R2	10'

MRO INDUSTRIES, INC.
1780 WEST 2300 SOUTH
SALT LAKE CITY, UT 84119
(800) 766-6970

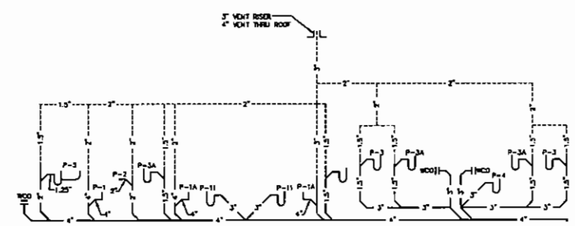
PIPING SUPPORT DETAIL

SCALE : NONE



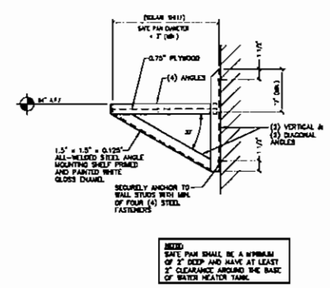
COLD AND HOT WATER DIAGRAM

SCALE : NONE



SANITARY AND VENT RISER DIAGRAM

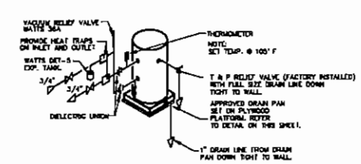
SCALE : NONE



NOTE: SAFE PAN SHALL BE A MINIMUM OF 2" DEEP AND HAVE AT LEAST 2" CLEARANCE AROUND THE BASE OF WATER HEATER TANK.

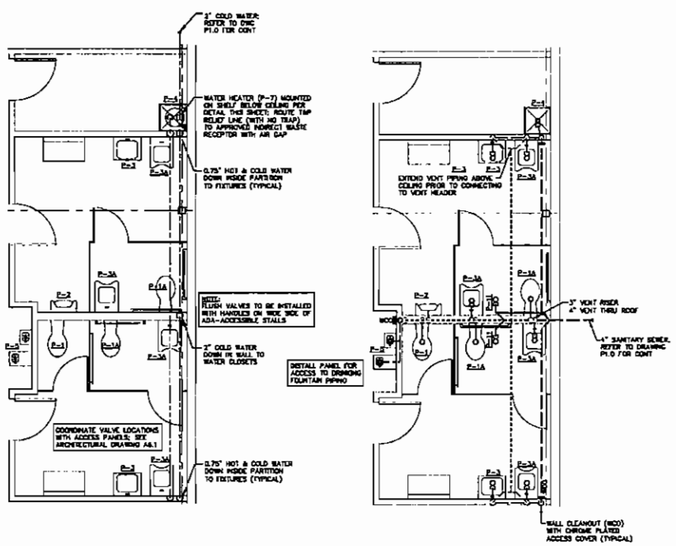
WATER HEATER SHELF DETAIL

SCALE : NONE



WATER HEATER PIPING DETAIL

SCALE : NONE



1 P2.0 **PARTIAL WATER PLAN**
SCALE : 1/4"=1'-0"

NORTH

2 P2.0 **PARTIAL WASTE PLAN**
SCALE : 1/4"=1'-0"

TO ORDER PLANS GO TO WWW.LDIREPRO.COM

CASCO PROJECT MANAGERS
P.O. BOX 1000
ST. CLAIRSVILLE, OHIO 43950-1000
PH. 740-695-9500
FAX 740-695-3505
LOCAL SERVICE AVAILABLE 12 MO/YR
206285

Rev. #	Date	Description	Rev. #	Date	Description	Rev. #	Date	Description
1	10/26/07	PERMIT/BID SET						
	12/04/07	CODE COMMENT RESPONSE						
	1/24/07							
	6/25/07							

Drawn by: BGB
Checked by: BGB
Date: AS NOTED
Scale:
Approved:
Project Manager: Chris Hamm/Chris Hamm
Project Number: 206285
Date: 10/26/07
Revision Date:
Revision Description:
Drawing Number: P2.0
Sheet Title: PLUMBING SCHEDULES & DETAILS

Project Name: ORLANDO
Project Address: KISSIMMEE
Site Name/Country, State: THE LOOP WEST SHOPPING CENTER

CIRCUIT CITY STORES INC.
9950 MAYLAND DRIVE RICHMOND, VA. 23233-1464
Store No. FL 4130
Prototype No. H30
Prototype Type: SUBMITTAL
Phase: CONTRACT
Sheet No. P2.0