STANDARD 3" WIDE HANGERS

Hanger extension to be the sum of the distances between the hanging wires and the duct size, ID(Smacna)

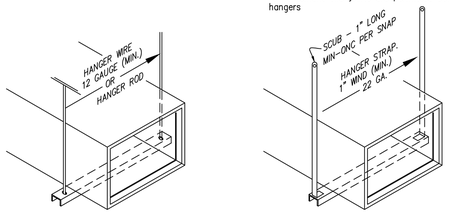
Duct size, Inches	Maximun Hanger Spacing
48: Wide or grade	4 ft
Less than 48" wide and less than 48" deep	6 ft
Width between 28" & 48" and greater than 16" deep	6 ft
Less than 29" wide and 16" depth or less	8 ft

CHANNEL SELECTION

If Total Extension is not greater than:	Minimun Channel Gauge	Minimun Channel Gauge
6"	24	3" X 1.5"
18"	22	3" X 2"
30"	18	3" X 2"

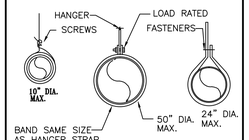
USE OF 2" WIDE

22 gauge 2' x 1.5" hangers may substituted for 3" hangers for ducts with widths not over 48" and depths not over 24" provided that not more than one joint occurs between hangers and the maximum hanger spacing 4ft. Exception: When duct perimeter is 80" or less and does not require reinforcement two joints are permitted between hangers

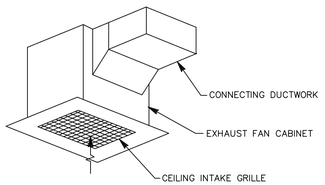


DUCT HANGER AND SUPPORTS
NTS

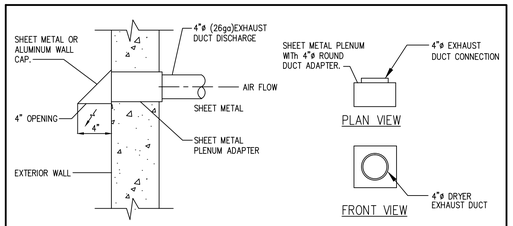
DUCT HANGER DETAIL
N.T.S.



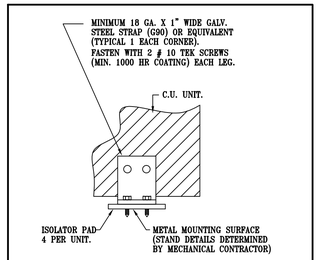
HANGERS MUST NOT DEFORM DUCT SHAPE



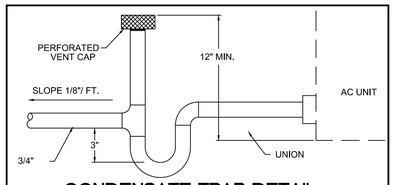
EXHAUST FAN DETAIL (EF-1)
N.T.S.



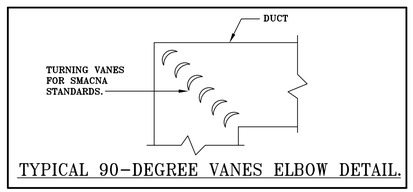
DRYER EXHAUST WALL CAP DETAIL
N.T.S.



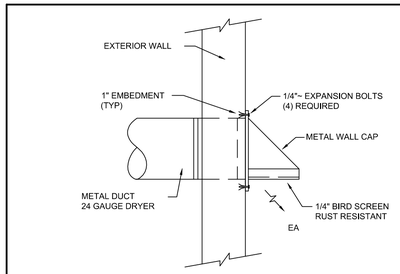
C.U. UNIT TIE DOWN DETAIL
N.T.S.



CONDENSATE TRAP DETAIL

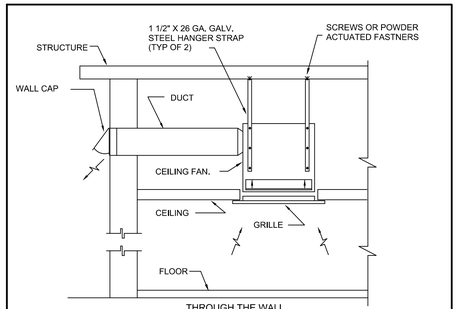


TYPICAL 90-DEGREE VANES ELBOW DETAIL.

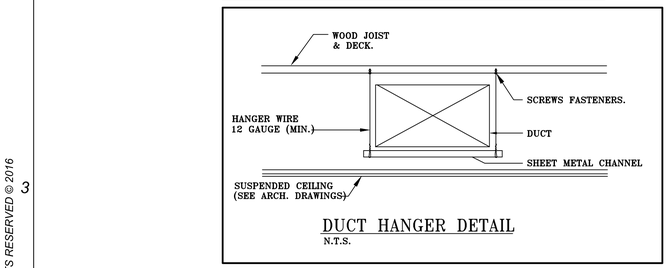


PROVIDE 10' MIN. FROM ANY VENT. COORDINATE W/ PLUMBING CONTRACTOR BEFORE JOB COMMENCEMENT.

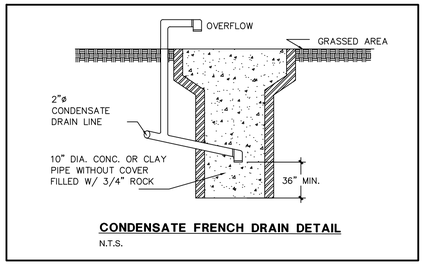
WALL CAP DETAIL



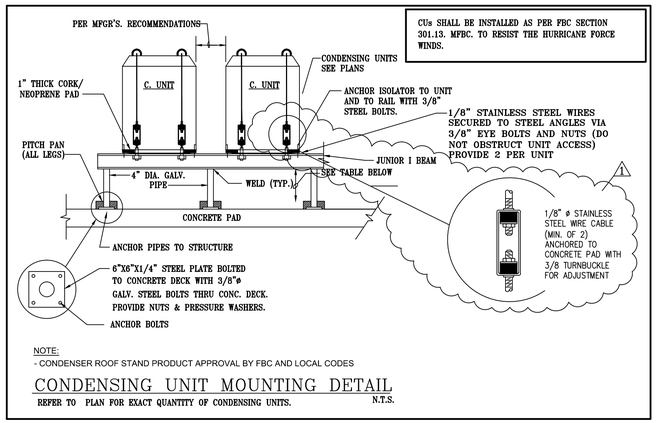
TOILET EXHAUST DETAIL
N.T.S.



DUCT HANGER DETAIL
N.T.S.

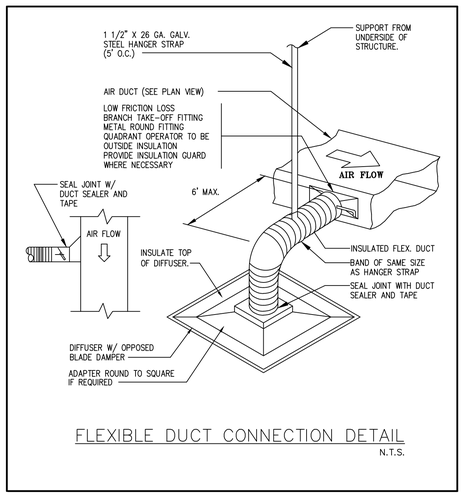


CONDENSATE FRENCH DRAIN DETAIL
N.T.S.



NOTE:
- CONDENSER ROOF STAND PRODUCT APPROVAL BY FBC AND LOCAL CODES

CONDENSING UNIT MOUNTING DETAIL
REFER TO PLAN FOR EXACT QUANTITY OF CONDENSING UNITS. N.T.S.

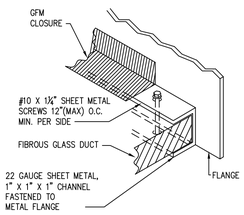


FLEXIBLE DUCT CONNECTION DETAIL
N.T.S.

FIBER GLASS DUCT CONNECTION TO EQUIPMENT NTS

NOTE:
SHEET METAL CONNECTIONS MUST BE USING GLASS FABRIC AND MASTIC(GFM)

EXCEPTION:
WHEN CONSTRUCTION PRESSURE CLASS IS 1"W.G. OR LESS AND SHEET METAL SURFACES ARE CLEANED CAREFULLY UL LISTED PRESSURE-SENSITIVE ALUMINUM TAPE MAY BE USED.
ALL CONNECTIONS OF FIBROUS GLASS DUCT TO EQUIPMENT AND METAL DUCT MUST BE MECHANICALLY ATTACHED 12"(MAX.) ON CENTERS.



NOTE:
THE AHU SHALL BE MECHANICALLY ATTACHED TO SUPPLY AIR PLENUM AS PER FMC 603.

MECHANICAL DETAIL N.T.S.

PROJECT:

1330 Building

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PROJECT OWNER :

NOTUS, LLC
435 21st Street. Miami Beach, FL 33139

ARCHITECT OF RECORD:

RD Architects
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email: rda@rda-archint.com
www.rda-archint.com
AA26002510

INTERIOR DESIGNER:

KEY PLAN

SIGNATURE / DATE / SEAL

Victor H. Rodriguez,
Registered Architect
State of Florida # AR0094965
305.282.0005 vh.rodriguez@rda-archint.com

PERMIT SET

Issue	Issue Date / For
1	12.05.2016 / Owner Revisions

DDCI Project #: **1628.00**
Drawn by: **VHR**
Approved by: **VHR**

SHEET INDEX

- Mech. Details

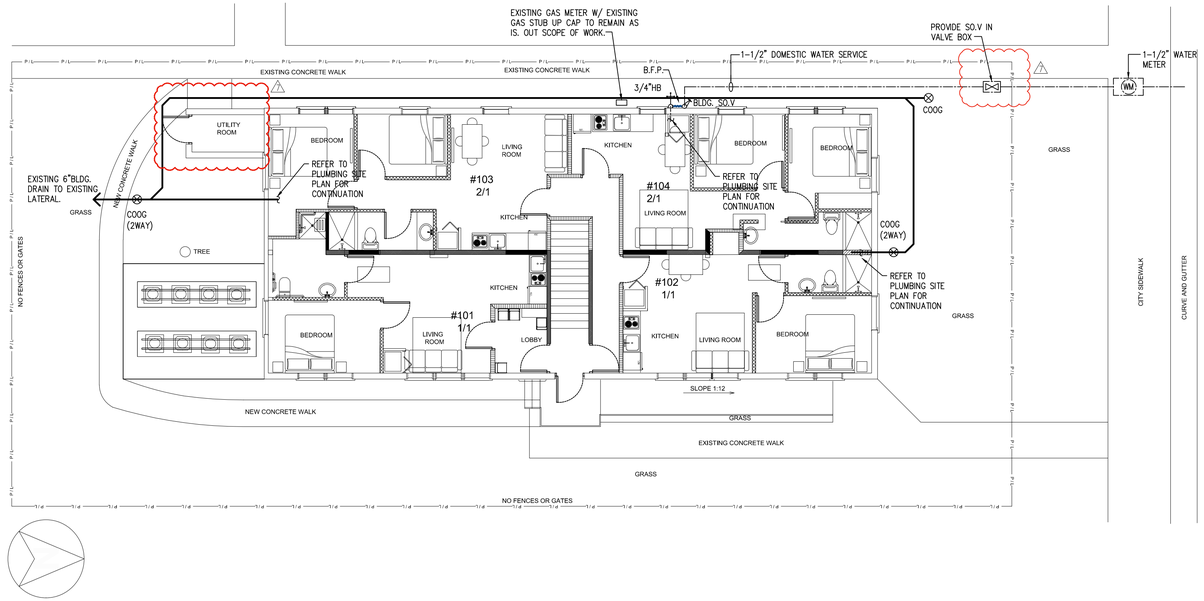
SCALE :

SHEET NO.

M-4

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	SANITARY LINE
	VENT LINE
	SAFEWASTE LINE
GW	GREASE WASTE LINE
	EXISTING LINE TO REMAIN.
	GATE VALVE
	COLD WATER LINE
	HOT WATER LINE
	RECIRCULATED HOT WATER LINE
P-	PLUMBING FIXTURE DESIGNATION
FCO	FLUSH CLEAN OUT
FD	FLOOR DRAIN
	FLOOR PENETRATION
	WATER HAMMER ARRESTOR
CO	WALL CLEANOUT
VTR	VENT THRU ROOF
COOG	CLEANOUT ON GRADE
	HOSE BIBB W/ VACUUM BREAKER AND SHUT-OFF VALVE
R	HEATER RELIEF LINE
S.O.V.	SHUT-OFF VALVE
	TIE-IN TO EXISTING PIPING VERIFY LOCATION AND INVERT BEFORE ROUGH-IN. NOTIFY ENGINEERS FOR ANY DISCREPANCIES.
	BALANCING VLV. W/ INDICATOR



PLUMBING SITE PLAN

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

N

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CONSULTANT ENGINEER:

KEY PLAN

SIGNATURE / DATE / SEAL

NOT VALID IF MISSING SIGNATURE

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State of Florida # AR0094965
305 . 282 . 0005 vh.rodriguez@rda-archint.com

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5	12.17.2017 / Fire Dept Comments
6	02.19.2018 / City Comments
7	04.20.2018 / Coordination w/ comments

DDCI Project #: ***1628.00***

Drawn by: ***VHR***

Approved by: ***VHR***

SHEET INDEX

- Plumbing Site Plan

SCALE :

SHEET NO.

P-1

SANITARY GROUND FLOOR PLAN

SCALE: 1/4" = 1'-0"

N

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7	04.20.2018 / Coordination w/ comments

DDCI Project #: **1628.00**

Drawn by: **VHR**

Approved by: **VHR**

SHEET INDEX

- Sanitary Plan Ground Floor

SCALE :

SHEET NO.

P-2

WATER GROUND FLOOR PLAN

SCALE: 1/4" = 1'-0"

N

PROJECT:

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DDCI Project #: **1628.00**
Drawn by: **VHR**
Approved by: **VHR**

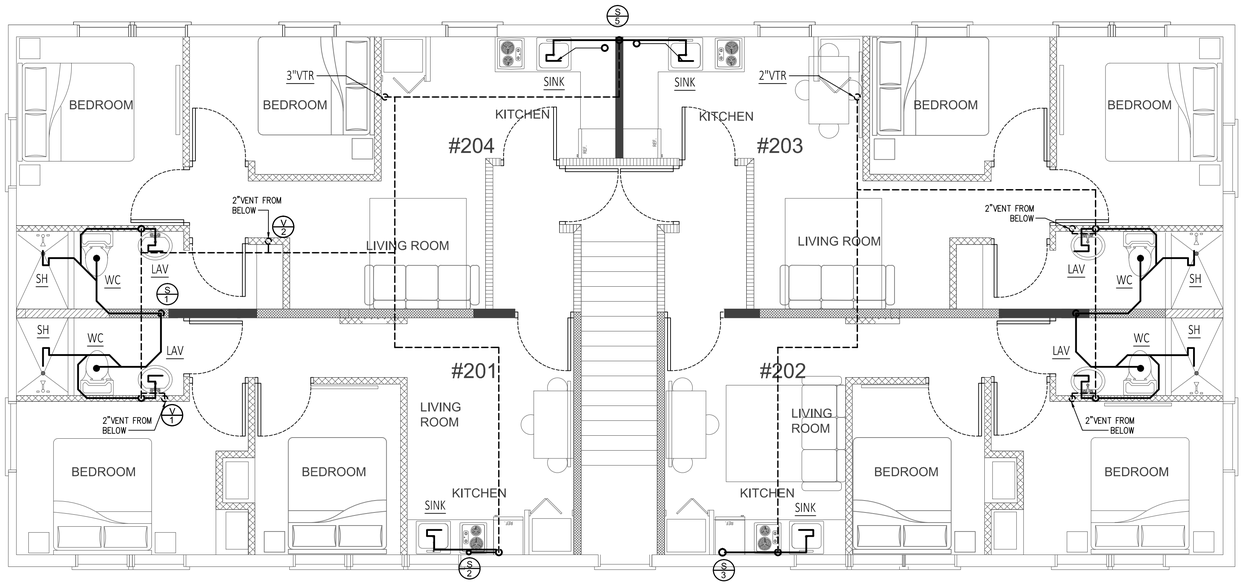
SHEET INDEX

- Water Ground Plan

SCALE :

SHEET NO.

P-3



SANITARY SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"

N

PROJECT:

1330 Building

1330 15th Street. Miami Beach, FL 33139

PROJECT OWNER :

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Approved by: **VHR**

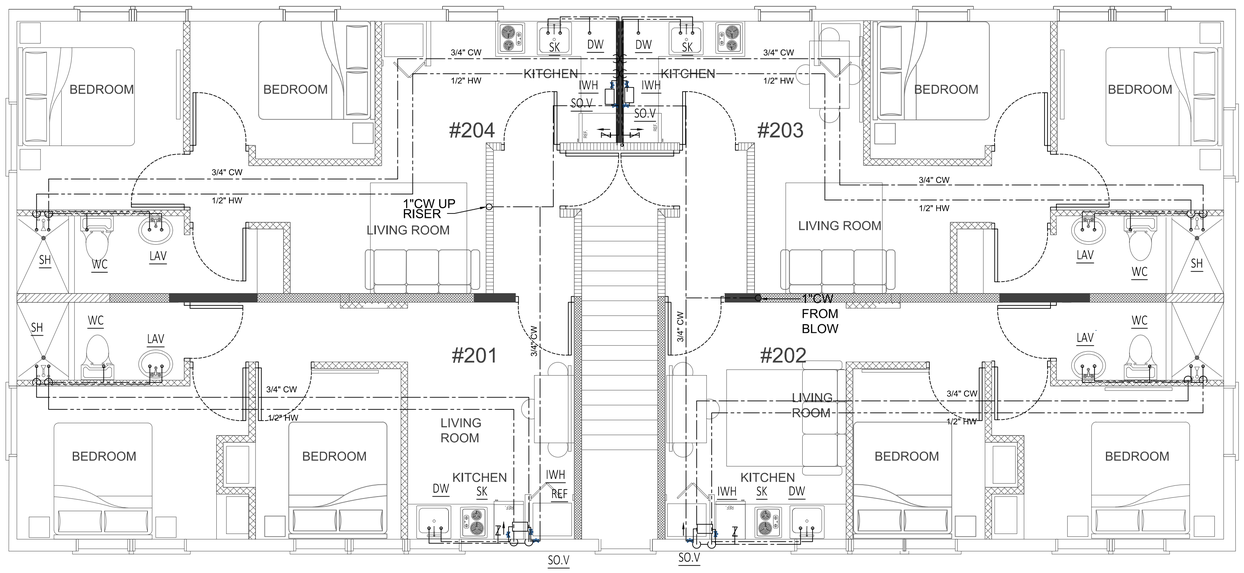
SHEET INDEX

- Sanitary Level 2

SCALE :

SHEET NO.

P-4



WATER SECOND FLOOR PLAN

SCALE: 3/16" = 1'-0"

N

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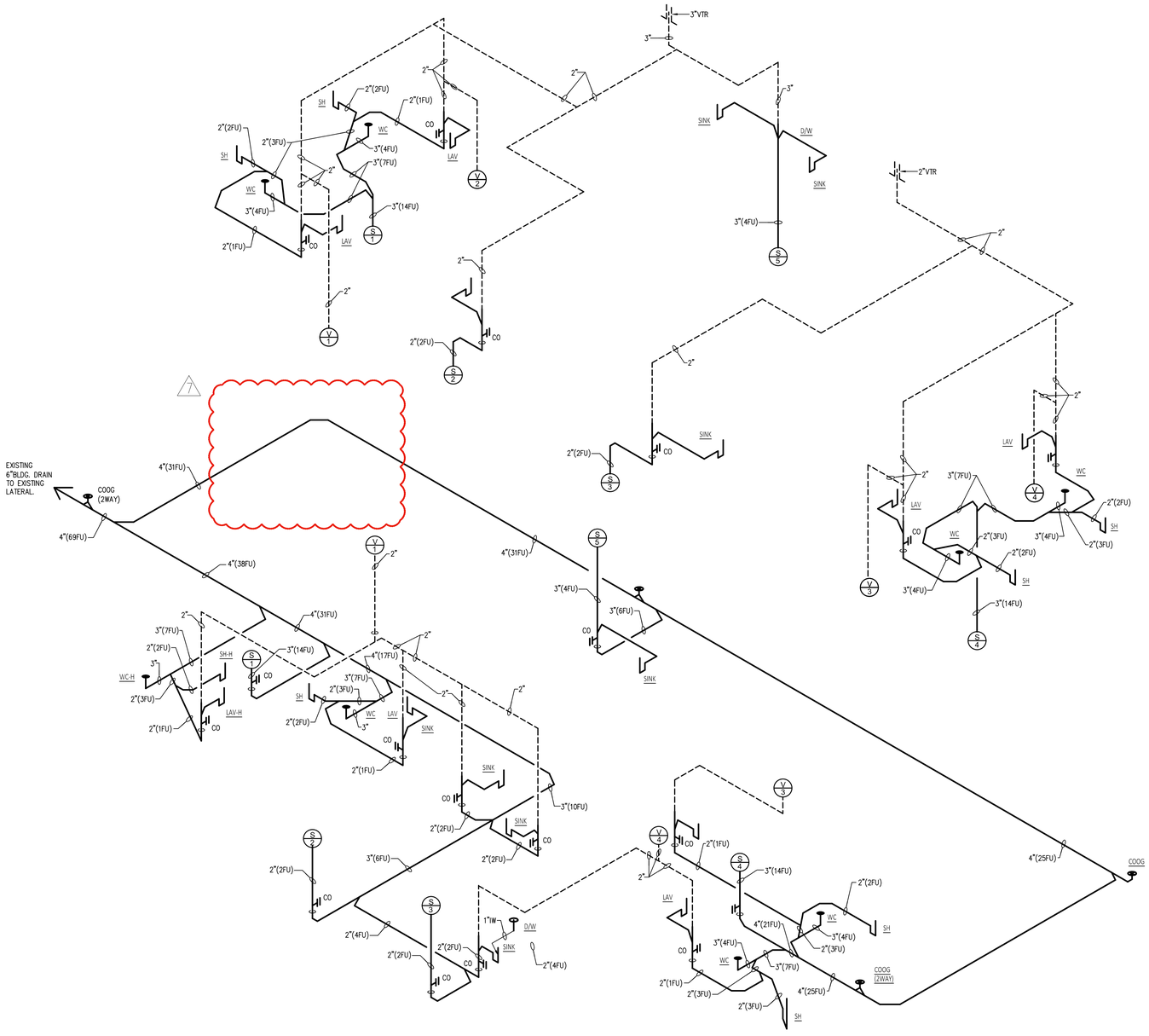
SHEET INDEX

- Water Plan Level 2

SCALE :

SHEET NO.

P-5



SANITARY PIPING ISOMETRIC – NTS

VERY IMPORTANT NOTES:

- PROVIDE CLEANOUTS AT BASE OF ALL STACKS
- COORDINATE VTR'S WITH O.A. INTAKES. MAINTAIN 10 FT. MIN. SEPARATION, OFFSET VTR'S AS REQUIRED.
- NO RETURN AIR AT CLG SPACE SHALL BE ALLOWED, COORD. W/ MECHANICAL DWGS, OTHERWISE, CAST-IRON SCH 40 AT CLG SPACE SHALL BE PROVIDED. COORDINATE BEFORE JOB COMMENCEMENT.
- ALL HORIZONTAL DRAIN PIPE 3"ø OR LARGER SHALL BE SLOPED AT 1/8"/FT. MIN.
- PROVIDE AUTOMATIC TRAP RESEAL FOR ALL FLOOR DRAINS INLCUIDED FLOOR SINKS
- REFER TO ARCHITECTURAL DETAILS FOR VERTICAL ACCESSIBLE SHOWER VALVE AS PER FBC 107.2.1

MAXIMUM DISTANCE OF FIXTURE TRAP FROM VENT

SIZE OF TRAP (inches)	SIZE OF FIXTURE DRAIN (inches)	SLOPE (inch per foot)	DISTANCE FROM TRAP (feet)
1 1/4	1 1/4	1/4	3 1/2
1 1/4	1 1/2	1/4	5
1 1/2	1 1/2	1/4	5
1 1/2	2	1/4	6
2	2	1/4	6
3	3	1/8	10
4	4	1/8	12

For SI: 1 inch = 25.4 mm,1 foot = 304.8 mm,
1 inch per foot = 83.3 mm/m.

NOTE:
EACH FIXTURE TRAP SHALL HAVE A PROTECTING VENT LOCATED SO THAT THE SLOPE AND THE DEVELOPED LENGTH IN THE FIXTURE DRAIN FROM THE TRAP WEIR TO THE VENT FITTING ARE WITHIN THE REQUIREMENTS SET FORTH IN TABLE 906.1. FBCP

REFER TO ARCHITECTURAL DRAWINGS FOR:
1. SHOW ALL FIXTURE CLEARANCES (INCLUDING CLEARANCE IN FRONT OF FIXTURES) TO VERIFY COMPLIANCE WITH FBC PLB 405.3.1.
2. PROVIDE SHOWER ACCESS COMPLIANCE WITH FBC PLB 417.4.2. –
3. PROVIDE INTERIOR SHOWER DIMENSIONS AS PER FBC PLB 417.4. –

DRAIN SCHEDULE		
SYMBOL	SERVICE	MANUFACTURER / MODEL
FD-1	FLOOR DRAIN (DRIP PUMP)	JOSAM 32320-7-50

PLUMBING FIXTURE CONNECTION SCHEDULE

NO.	DESCRIPTION	DRAIN	WATER COLD	WATER HOT	REMARKS
WC	WATER CLOSET	3"	1/2"	--	FLUSH TANK, 1.28 GPF
LAV	LAVATORY (COUNTER TYPE)	1 1/2"	1/2"	1/2"	PROVIDE 0.5 GPM FAUCET
SH	SHOWER (NOTE 1)	2"	3/4"	3/4"	BASIN BY ARCH. (PROVIDE 1.5 GPM SHOWERHEAD)
SK	KITCHEN SINK	1 1/2"	1/2"	1/2"	PROVIDE 1.5 GPM FAUCET
REF	REFRIGERATOR	--	1/2"	--	PROVIDE ICE MAKER KIT
W W/D	CLOTHES WASHER	2"	1/2"	1/2"	BY OWNER, PROVIDE RECESSED BOX, GUY GREY T200 OR EQUAL
FD	FLOOR DRAIN	3"	-		BY OWNER, 1/2"TRAP RESEAL

NOTES:
1. TEMPERING CONTROL VALVE SHALL BE PROVIDED FOR SCALDING PROTECTION TO COMPLY W/ FMC 1002.2.2 IF REQUIERED.
2. ALL FIXTURES SHALL COMPLY WITH THE FLORIDA BUILDING CODE WATER CONSERVATION STANDARDS AND SELECTED BY OWNER.
3. ALL PLUMBING FIXTURES, FIXTURES FITTING AND APPLIANCES. SHALL INCLUDE HIGH EFFICIENCY PLUMBING FIXTURES, AND APPLIANCES AS PROVIDED IN TABLE 604.4 OF FBCP AND SHALL MEET SECTION 8-31 OF THE CODE OF MIAMI-DADE COUNTY. (W.C 1.28 gpf, LAV 0.5 gpm @ 60 psi INLET, SH HEAD 1.5 gpm, KIT FAUCETS 1.5 gpm @ 60 psi INLET.)
4. ALL PLUMBING FIXTURES SHALL COMPLY WITH CHAPTER 4 OF FBCP 2014.
5. ALL PLUMBING FIXTURES SHALL BE SELECTED AND APPROVED BY OWNER BEFORE JOB COMMENCEMENT.
6. TOILET AND BATHING ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 6 INCHES (152 MM).AS PER SECTION 1210.1 FBCP. REFER TO ARCH. SPEC's
7. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIE. AS PER SECTION 404.6.4 FBCP *1.1 GPF ACCEPTABLE

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CONSULTANT ENGINEER:

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DDCI Project #: **1628.00**
Drawn by: **VHR**
Approved by: **VHR**

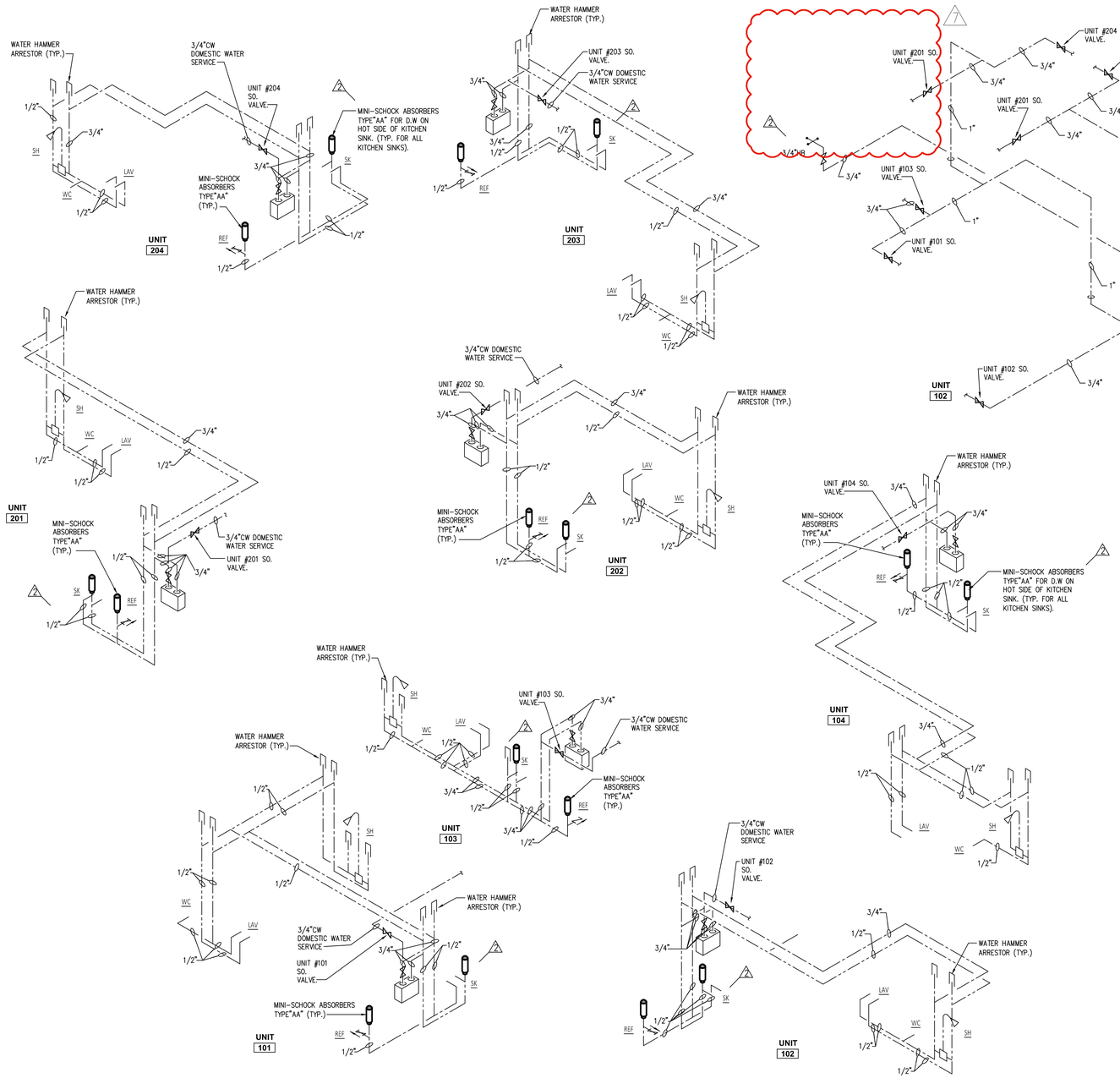
SHEET INDEX

- Sanitary Isometric
- Schedules

SCALE :

SHEET NO.

P-6



WATER PIPING ISOMETRIC – NTS

SECTION E103.3 WATER LOAD VALUES FIXTURES CALCULATION

AS PER FLORIDA BUILDING CODE 2014

FIXTURES	FLOOR	QTY	OCCUPANCY	TYPE OF SUPPLY CONTROL	LOAD VALUES, IN WATER SUPPLY FIXTURES UNITS (wsfu)			GRAND TOTAL (wsfu)
					COLD	HOT	TOTAL	
FULL BATHROOM GROUPS	APARTMENT	16	PRIVATE	FLUSH TANK	2.7	1.5	3.6	57.6
KITCHEN GROUPS	APARTMENT	16	PRIVATE	FLUSH TANK	1.0	1.0	1.4	22.4
WASHER MACHINE	1ST & 2ND	2	PUBLIC	AUTOMATIC	2.25	2.25	3.0	6.0
MOP SINK	1ST & 2ND	2	PUBLIC	AUTOMATIC	2.25	2.25	3.0	6.0
								92.0

NOTE: EXISTING FIXTURE FOR REFERENCE, ONLY FOR LOAD VALUE TO FIXTURES. NOT IN SCOPE OF WORK.

SHOCK ABSORBER'S SIZES

ABSORBOTRON TYPE NO.	75000	75001	75002	75003	75004	75005	75006
	75000-S	75001-S	75002-S	75002-S	75002-S	75002-S	75002-S
P.D.I. SYMBOLS *	AA	A	B	C	C	E	F
FIXTURE-UNITS RATING	1	1-11	12-32	33-60	61-113	114-154	155-330

CLASSIFICATION ESTABLISHED BY THE PLUMBING AND DRAINAGE INSTITUTE
"STANDARD P.D.I.- WH201" REFER TO JOSAM MANUFAC.

PROJECT:

1330 Building

1330 15th Street. Miami Beach, FL 33139

PROJECT OWNER :

NOTUS, LLC
435 21st Street. Miami Beach, FL 33139

ARCHITECT OF RECORD:

RD Architects
1800 SW 1st. Avenue, Suite 607. Miami, Florida 33129
P: 786.762.2679 F: 305.831.8079 C: 305.282.0005
Email: rda@rda-archint.com
www.rda@rda-archint.com / AA26002510

CONSULTANT ENGINEER:

KEY PLAN

SIGNATURE / DATE / SEAL

NOT VALID IF MISSING SIGNATURE

STATE OF FLORIDA · VICTOR HUGO RODRIGUEZ · AR94965 · REGISTERED ARCHITECT

Victor H. Rodriguez,
Registered Architect
State of Florida # AR0094965
305 . 282 . 0005 vh.rodriguez@rda-archint.com

PERMIT SET

Issue	Issue Date / For
1	12.05.2016 / Owner Revisions
2	05.05.2017 / Reviewer Comments
3	08.07.2017 / Reviewer Comments
4	12.17.2017 / Fire Dept Comments
5	12.17.2017 / Fire Dept Comments
6	02.19.2018 / City Comments
7	04.20.2018 / Coordination w/ comments

DDCI Project #: **1628.00**
Drawn by: **VHR**
Approved by: **VHR**

SHEET INDEX

- **Water Isometrics**
- **Schedules**

SCALE :

SHEET NO.

P-7

GENERAL PLUMBING NOTES:

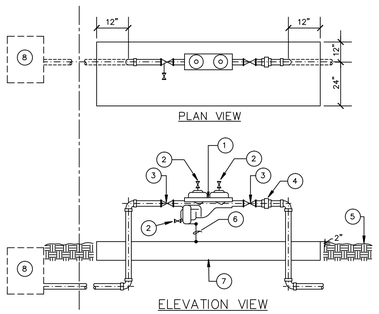
1. A. ALL WORK SHALL BE DONE in accordance with the Florida Building Code 2014 and with all applicable regulations.
   B. DRAWINGS: Refer to all drawings for coordination of the plumbing work.
   C. ARRANGE AND PAY for all permits, licenses, inspections and tests. Obtain the required certificates and present to owner.
   D. GUARANTEE: The completed installation shall be fully guaranteed against defective materials and/or improper workmanship for a minimum of one year for material and labor.
   E. ALL HORIZONTAL SANITARY PIPING 3" and larger shall slope at 1/8 inch per foot minimum, unless noted otherwise. per foot minimum, unless noted otherwise. All piping 2" and smaller shall slope at 1/4"inch per foot minimum.
2. SHOP DRAWINGS: Contractor shall submit for approval, within 30 days of signing contract, a minimum of five copies of fully descriptive literature, including but not limited to: water heaters, and plumbing fixtures. No work shall proceed without the approval of these submittals.
3. PLUMBING FIXTURES: Fixtures shall be as specified and shall be furnished by the owner and installed by this contractor. Fixtures shall be complete with drains, traps, supplies and any other accessory provided w/ the unit.
4. MATERIALS:
   A. PIPING:
      a. Soil, waste and vent, and storm: Sanitary pipe, PVC, DWV, Schedule 40.
      b. Domestic water: Copper pipe, Type L with sweat wrought copper fittings. Type "M" in concealed spaces is acceptable. Isolate piping from concrete with insulating material.
      c. Condensate drain: DWV Copper pipe and fittings.
      d. P & T Relief and Drain Pan lines: DWV Copper pipe and ftgs.
      e. Domestic water supply assembly: Chrome finish tubing with angle shut off valves.
      f. Domestic water supply assembly: Chrome finish tubing
      f. Domestic water supply assembly: Chrome finish tubing
   B. Insulation:
      a. Hot water & hot water return: Provide 1" thick fiberglass pipe insulation with jacket and self sealing flaps.
      b. Circulating hot water piping shall be insulated to at least R-2 as per FBC 403.4.1, 2014
      b. Minimum pipe insulation Circulation hot water system shall be insulated in accordance with the requirements of table 607.2.1 FBCP

   a. INSULATE CONDENSATE DRAIN PIPES with 3/4" thick armaflex. slip insulation over piping without splitting. buttends firmly together, seal all joints with vapor seal adhesive recommended by insulation manufacturer.where piping is outdoor apply two coats of armaflex finish. Insulate hot water piping with 3/4" thick preformed fibrous glass insulation with a factory applied skim krapt jacket. insulate fittings w/fibrous glass preformed insulation with a zeston jacket.
5. ALL AUTOMATIC ELECTRIC water heaters shall meet the standards of the latest state energy conservation code.
6. PIPING TEST AND DISINFECTIONS:
   A. Test: All sanitary and domestic water supply piping shall be tested for leaks before piping is concealed or connected to equipment and plumbing fixtures. test drain, vent and condensate piping to a pressure of 5 psig hydrostatic. test domestic water to 100 psig hydrostatic. test other piping to a pressure of 100 psig hydrostatic. all tests to be a minimum duration of two hours.
   B. Disinfection: All domestic water piping shall be disinfected by introducing a solution of calcium hypochlorite of 50 parts per million of chloride and as per AWWA Standards.
7. VALVES: Domestic water valves shall be of bronze body, sweat ends.
8. HOSE BIBBS: Shall be 1/2 inch. rough brass construction with shut off valve and vacuum breaker.
9. ALL OUTDOORS FLOOR clean outs shall be terminated up to grade and shall be marked.
10. CONTRACTOR SHALL COORDINATE exact location of sanitary, and domestic water piping before starting any work. Notify Architect/Engineer of any deviations from design drawings. (coordinate infield w/ owner)
11. WASTE PIPING:
    Install all pipe 3" and larger at 1/8"/ft slope.
    Install pipe smaller than 3" at 1/4"/ft slope.
12. CONTRACTOR to fire protect and seal all openings and pipe penetrations thru fire rated walls and ceiling. Materials and methods of fire rating shall be approved by the local product control aproval department and shall be U.L. listed.
13. PROVIDE CEILING/WALL ACCESS DOORS where indicated on drawings and when required to access mechanical equipment. Doors shall be recessed type
14. PLUMBING CONTRACTOR SHALL review structural drawings prior to bidding to fully familiarize himself with project. Refer to all construction documents for coordination of the plumbing work with other disciplines and to define complete scope of work.
15. SAW OR CUT CORE DRILL slab as required to install new plumbing work. Patch slab to match existing and seal all penetrations to maintain fire rating of floor.
16. LAY ALL UNDERGROUNG PIPING on a firm bed for its entire length. support above grade horizontal pipe from building structure by means of clevis or split ring hangers. support vertical piping by the use of riser clamps. provide copper clad supports for copper piping. support pvc piping above ground at no more than 5'-0" on centers. locate supports near each joint and at each change of direction. support copper or steel pipe at no more than 8'-0" on centers, and no more than 1'-0" away from a change in direction. support vertical copper piping at each floor slab no more than 6" above or below connection to a fixture and at ceiling height. install steel pipe sleeves whenever piping passes through floors or walls. sleeves should be large enough to provide a 1/2" annular space between the pipe and the sleeve. provide an intumescent fire sealant to fill the annular space between the pipe and the sleeve.
17. BEFORE STARTING WORK, examine all drawings, verify dimensions and routing of ducts to avoid interfering with other trades. where interferences occur coordinate with other trades and obtain approval from the general contractor and architect/engineer for the proposed adjustments. report conflicts prior to commencing installation. should interference develop involving work already installed, the architect/engineer will decide which items must be relocated.
18. CONTRACTOR SHALL PROTECT AND FIRE SEAL ALL OPENINGS AND PIPE PENETRATIONS thru fire rated walls and ceilings with adequate firestopping materials to maintain the indicated fire ratings of the assemblies being penetrated.
19. VERIFY EXACT LOCATION OF AREA DRAINS, ROOF DRAINS AND EMERGENCY OVERFLOW DRAINS, Against architectural drawings. bring any discrepancies to the attention of the engineer prior to commencing any work.

TABLE 607.2.1 MINIMUM PIPE INSULATION

FLUID DESIGN OPERATING TEMPERATURE RANGE, (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE DIAMETER OR TUBE SIZE (IN.)				
	CONDUCTIVITY Btu * N	MEAN TEMPERATURE RATING	< 1	1 TO 1-1/2	1-1/2 TO 4	4 TO < 8	8 >
DOMESTIC AND SERVICE HOT WATER SYSTEMS							
> 105	0.22 – 0.285	100	0.5	0.5	1.0	1.0	1.0

Minimum pipe insulation Circulation hot water system shall be insulated in accordance with the requirements of table 607.2.1 FBCP



NOTES:

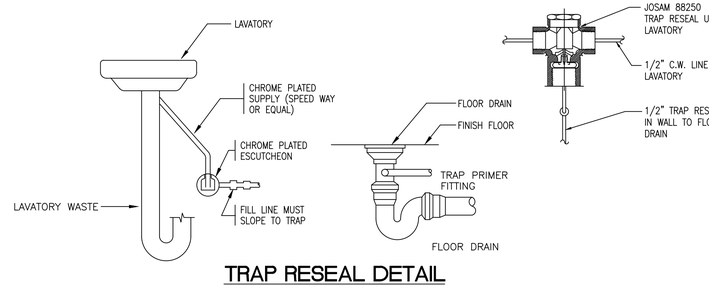
1. WATTS SERIES 909 REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY
2. TEST COCK
3. BALL VALVE (TYP)
4. UNION
5. FINISHED GRADE
6. 12" MIN. ABOVE FLOOD LEVEL AND CONC. SLAB
7. 6" CONC. SLAB WITH #4 AT 12" E.W.
8. METER VAULT

THE ASSEMBLY SHALL BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCES OF 30 INCHES FREE FROM OBSTRUCTIONS IN SERVICE REQUIRED DIRECTIONS.

1. GUARD POSTS SHALL BE INSTALLED IF THE ASSEMBLY IS EXPOSED TO POSSIBLE DAMAGE FROM VEHICULAR TRAFFIC, AS DETERMINED BY AUTHORITY HAVING JURISDICTION.
2. PIPING SHALL BE AS INDICATED ON GENERAL DRAWING NOTES/PLUMBING SPECIFICATIONS.
   ALL EXPOSED METALLIC THREADS SHALL BE PAINTED WITH BITUMASTIC PAINT.
3. THE AUTHORITY HAVING JURISDICTION SHALL HAVE UNRESTRICTED AND CONTINUOUS ACCESS TO THE BACKFLOW PREVENTION ASSEMBLY.
4.
5.

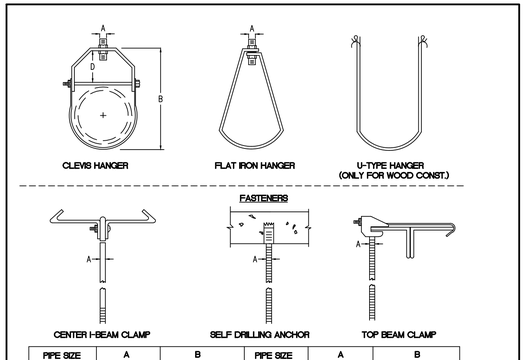
REDUCED PRESSURE BACKFLOW ASSEMBLY

N.T.S. FOR SERVICE SIZES 3/4" THRU 2"



TRAP RESEAL DETAIL

N.T.S.

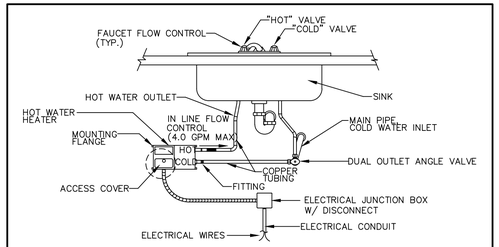


PIPE SIZE	A	B	PIPE SIZE	A	B
2.54cm [1"]	.95cm [3/8"]	6.99cm [2 3/4"]	10.16cm [4"]	1.27cm [1/2"]	19.69cm [7 3/4"]
3.17cm [1 1/4"]	.95cm [3/8"]	8.41cm [3 5/16"]	15.24cm [6"]	1.90cm [3/4"]	26.19cm [10 5/16"]
3.81cm [1 1/2"]	.95cm [3/8"]	9.20cm [3 5/8"]	20.32cm [8"]	2.22cm [7/8"]	32.39cm [12 3/4"]
5.08cm [2"]	1.27cm [1/2"]	12.22cm [4 13/16"]	25.4cm [10"]	2.22cm [7/8"]	38.74cm [15 1/4"]
6.35cm [2 1/2"]	1.27cm [1/2"]	14.76cm [5 13/16"]	30.48cm [12"]	2.22cm [7/8"]	44.77cm [17 5/8"]
7.62cm [3"]	1.27cm [1/2"]	16.35cm [6 7/16"]			

HANGER ROD SCHEDULE

TYPICAL HANGER ROD DETAIL

SCALE:NT.S



NOTE: REFER TO ELECTRICAL DWG FOR CIRCUITING AND WIRE SIZING.

TYPICAL "IWH" INSTANT WATER HEATER MOUNTING DETAIL

N.T.S.

MARK	MANUFACTURER	MODEL No.	CHARACTERISTICS
IWH-1	ECO SMART OR EQUAL.	ECO-11	11.2 KW, 240V,1ø
IWH-L	ECO SMART OR EQUAL.	ECO-3.5	3.5 KW, 240V,1ø

PROJECT:

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ARCHITECT OF RECORD:

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1800 SW 1st Avenue, Suite 607
Miami, FL 33129
Phone: 786.762.2679
email: rda@rda-archint.com
www.rda-archint.com
AA26002510

INTERIOR DESIGNER:

KEY PLAN

SIGNATURE / DATE / SEAL

Victor H. Rodriguez,
Registered Architect
State of Florida # AR0094965
305.282.0005 vh.rodriguez@rda-archint.com

PERMIT SET

Issue	Issue Date / For
1	12.05.2016 / Owner Revisions

DDCI Project #: **1628.00**
Drawn by: **VHR**
Approved by: **VHR**

SHEET INDEX

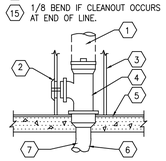
- General Notes
- Details

SCALE :

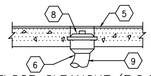
SHEET NO.

P-8

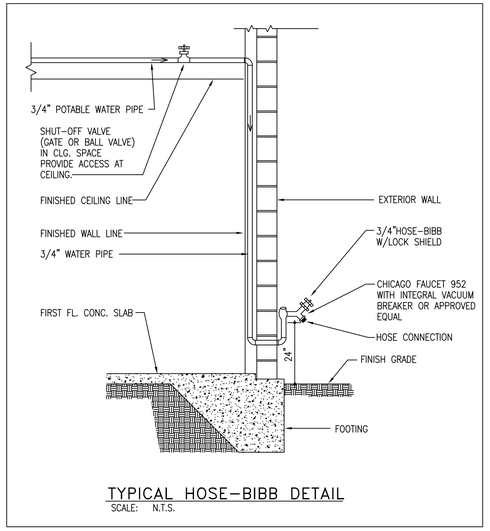
1. MAY EXTEND AS A WASTE OR VENT. REFER TO PLANS.
2. CHROME WALLCOVER & SCREW.
3. WALL
4. PLUGGED TEE W/CLEANOUT.
5. FLOOR LINE
6. 1/8" BEND
7. BALANCE OF PIPING SAME AS CLEANOUT TO GRADE.
8. BALANCE OF PIPING SAME AS CLEANOUT TO GRADE.
9. CLEANOUT & ACCESS COVER TO BE FLUSH W/TOP OF FLOOR.
10. BRASS CLEANOUT PLUG W/ COUNTER SUNK HEAD.
11. FINISH GRADE
12. 16" SQUARE CONC. PAD TROWEL SMOOTH AND EDGE.
13. WASTE LINE. LENGTH TO SUITE.
14. WASTE LINE
15. 1/8 BEND IF CLEANOUT OCCURS AT END OF LINE.



WALL CLEANOUT



FLOOR CLEANOUT (F.C.O.)

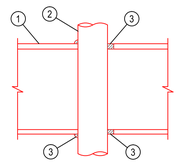


TYPICAL HOSE-BIBB DETAIL
SCALE: N.T.S.

System No. F-C-1106

F Rating – 1 Hr
T Rating – 1/4 Hr

FC 1106



1. Floor-Ceiling Assembly — The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
A. Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5 in. (127 mm).
B. Wood Joists* — Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
C. Gypsum Board* — Min 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. Gypsum board secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5 in. (127 mm).
1A. Chase Wall — (Optional, Not Shown) — The through penetrants (Item 2) may be routed through a 1 hr fire rated single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. greater than diameter of opening cut in sole and top plates to accommodate the through penetrant (Item 2). The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs — Nom 2 by 4 in, (51 by 102 mm), 2 by 6 in. (51 by 152 mm), 2 by 8 in. (51 by 203 mm) or double nom 2 by 4 in. (51 by 102 mm) lumber studs.
B. Sole Plate — Nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm) or 2 by 8 in. (51 by 203 mm) lumber plates or double nom 2 by 4 in. (51 by 102 mm) lumber plates tightly butted together. Circular opening to be centered in sole plate. Sole plate to be min 1 in. (25mm) wider than diam of opening. Max diam of opening in sole plate is 5 in. (140 mm).
C. Top Plate — The double top plate shall consist of two nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm) or 2 by 8 in. (51 by 203 mm) lumber plates or double nom 2 by 4 in. (51 by 102 mm) lumber plates tightly butted together. Circular opening to be centered in top plate. Top plate to be min 1 in. (25mm) wider than diam of opening. Max diam of opening in top plate is 5-1/2 in. (140 mm).
D. Gypsum Board* — Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.
2. Through Penetrants — One metallic pipe, conduit or tubing, to be installed concentrically or eccentrically within the opening. The diam of the opening shall be 1 in. larger than the nom diam of the penetrant. The annular space between the pipe, conduit or tubing and the periphery of opening shall be min 0 in. (point contact) to max 7/8 in. , (22 mm). Pipe, conduit or to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Copper Tube — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube,
B. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe,
C. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
D. Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
E. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or steel conduit.

HILTI FIRESTOP SYSTEMS
Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. October 09, 2006

CLASSIFIED C UL US

System No. F-C-1106

F Rating – 1 Hr
T Rating – 1/4 Hr

FC 1106

3. Fill, Void or Cavity Materials*–Sealant — Min 3/4 in. (19 mm) thickness of sealant applied within the annulus flush with the top surface of the floor or sole plate and min 5/8 in. (16 mm) thickness of sealant applied within the annulus flush with the bottom surface of gypsum board or lower top plate. A min 1/2 in. (13 mm) diameter bead of sealant applied at the penetrant/subflooring or sole plate interface and the penetrant/gypsum board or top plate interface at point contact locations.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606 Flexible Firestop Sealant, FS-One Sealant.
*Bearing the UL Classification Mark

HILTI FIRESTOP SYSTEMS
Hilti Firestop Systems

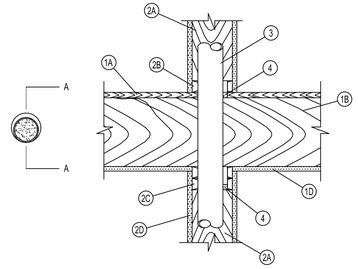
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. October 09, 2006

CLASSIFIED C UL US

System No. F-C-2142

F Rating - 1 Hr
T Rating - 1 Hr

FC 2142



SECTION A-A

1. Floor–Ceiling Assembly The fire–rated solid or trussed lumber joist floor–ceiling assembly shall be constructed of the materials and in the manner specified in individual L500 Series Floor–Ceiling Designs in the UL Fire Resistance Directory. The general construction details of the floor–ceiling assembly are summarized below:
A. Flooring System Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor–Ceiling Design. Max diam of floor opening is 3 in.
B. Wood Joists Nom 2 by 10 in. lumber joists spaced 16 in. OC with nom 1 by 3 in. lumber bridging and with ends firestopped. As an alternate to lumber joists, nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required with ends firestopped.
C. Furring Channels (Not shown) – Resilient galv steel furring installed perpendicular to wood joists (Item 1B) between wallboard (Item 1D) and wood joists as required in the individual Floor–Ceiling Design.
D. Gypsum Board* Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor–Ceiling Design.

HILTI FIRESTOP SYSTEMS

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. February 09, 1999

UL

System No. F-C-2142

F Rating - 1 Hr
T Rating - 1 Hr

FC 2142

2. Chase Wall The through penetrant (Item 3) shall be routed through a 1 hr fire–rated single, double or staggered wood stud/gypsum wallboard chase wall constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs Nom 2 by 4 in. lumber studs.
B. Sole Plate Nom 2 by 4 in. lumber plates.
C. Top Plate The double top plate shall consist of two nom 2 by 4 in. lumber plates. Max diam of opening is 3 in.
D. Gypsum Board* Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.
3. Through – Penetrants One nonmetallic pipe to be installed either eccentrically or concentrically within the firestop system. The annular space between the through penetrant and the periphery of the opening shall be a min 0 in. (point contact) to a max of 5/8 in. Pipe to be rigidly supported on both sides of the floor–ceiling assembly. The following types and sizes of nonmetallic pipes may be used.
A. Polyvinyl Chloride (PVC) Pipe Nom 2 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
B. Acrylonitrile Butadine Styrene (ABS) Pipe Nom 2 in diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
C. Chlorinated Polyvinyl Chloride (CPVC) Pipe Nom 2 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
C. Fill, Void or Cavity Material* –– Sealant Min 3/4 in. thickness of fill material applied within the annulus, flush with top surface of floor and flush with bottom surface of lower top plate.
HILTI CONSTRUCTION CHEMICALS, DIV OF
HILTI INC – FS – ONE Sealant
*Bearing the UL Classification Marking

HILTI FIRESTOP SYSTEMS

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. February 09, 1999

UL

Classified UL System

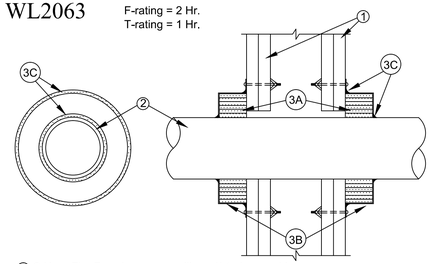
2 Hour Fire Rated Through Penetration Firestop for Plastic Pipe through Gypsum Walls using intumescent devices

TREMCO
3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale

WL2063

F-rating = 2 Hr.
T-rating = 1 Hr.



① 2-Hour Fire Rated gypsum wallboard/stud assembly.
② Plastic Pipe - 4" dia. (or smaller) sch. 40 PVC pipe for use in closed or vented piping systems, with a nom. annular space of 1/8".
③ A) TREMstop WS - wrap strips, tightly wrapped 6 times around pipe,
B) TREMstop MCR - steel restricting collar.
C) FYRE-SIL - Min. 1/4" thick sealant applied to wall/collar and collar/pipe interfaces.

Project: _____
Location: _____
Installer: _____
Signature: _____

The products used in the above assembly have been tested in accordance with the following:
•ASTM E814 (UL1479) Standard Test Method for Through Penetration Firestopping.

Date: 2/26/94 | Drawing: TR-W2063
Approved by: C. Tuzzeo

The above described assembly and products have been tested and are based on both past and anticipated performance criteria. Tremco shall not be liable for any damages, direct or consequential, resulting from use of this material or design. Tremco shall only be responsible for replacing material found to be defective.

Classified UL System

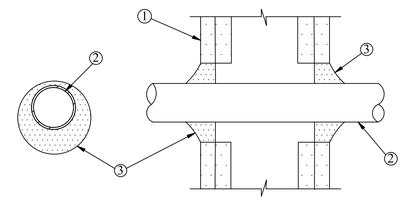
1 or 2 Hour Fire Rated Through Penetration Firestop for Single Metallic Pipe through Gypsum Walls using TREMstop IA.

TREMCO
3735 Green Rd.
Beach wood, OH, 44122

Drawing not to scale

WL 1113

F-Rating = 1 and 2 Hr.
T-Rating = 0 Hr.



① Pre-Rated Gypsum Wallboard/Stud Wall Assembly
② Metallic Pipe - A) Steel Pipe - 4" diam. (or smaller) Sch. 40 (or heavier) steel pipe.
B) Iron Pipe - 4" diam. (or smaller) cast or ductile iron pipe.
C) Conduit - 4" diam. (or smaller) EMT or rigid steel conduit.
D) Copper Tubing - 4" diam. (or smaller) Type L (or heavier) copper tubing.
E) Copper Pipe - 4" diam. (or smaller) Regular (or heavier) copper pipe.
The annular space shall be min. 1/4" to max. 5/8" within the firestop system.
③ TREMstop IA - Min. 1/2" thickness of sealant applied within opening. Additional sealant to be installed such that a min. 1/4" crown is formed around the penetrating item.

Project: _____
Location: _____
Installer: _____
Signature: _____

The Tremco products used above have been tested in accordance with the following:
• ASTM E814 (UL1479) Standard Test Method for Through Penetration Firestopping.

Date: 6/30/97 | Drawing: TW-1113
Approved by: J. Pitcole

The above described assembly has been tested and is based on both past and anticipated performance criteria. Tremco shall not be liable for any damages, direct or consequential, resulting from use of this material or design. Tremco shall only be responsible for replacing material found to be defective.

PROJECT:

1330 Building

1330 15th Street. Miami Beach, FL 33139

PROJECT OWNER :

NOTUS, LLC
435 21st Street. Miami Beach, FL 33139

ARCHITECT OF RECORD:

RD Architects
1800 SW 1st Avenue, Suite 607
Miami, FL 33129
Phone: 786.762.2679
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www.rda-archint.com
AA26002510

INTERIOR DESIGNER:

KEY PLAN

SIGNATURE / DATE / SEAL

Victor H. Rodriguez,
Registered Architect
State of Florida # AR0094965
305.282.0005 vh.rodriguez@rda-archint.com

PERMIT SET

Issue	Issue Date / For
1	12.05.2016 / Owner Revisions

DDCI Project #: **1628.00**
Drawn by: **VHR**
Approved by: **VHR**

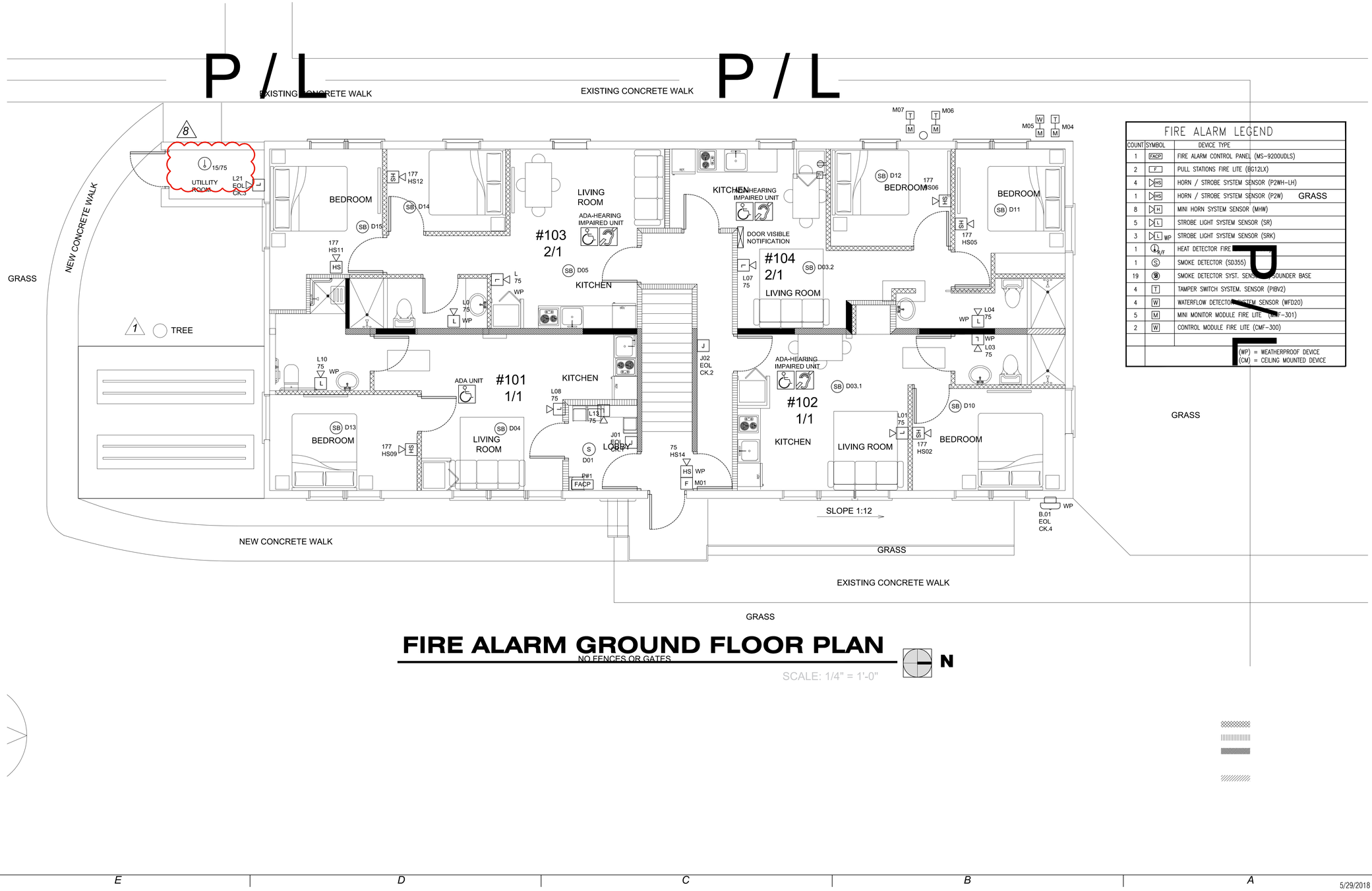
SHEET INDEX

- Wall and Floor Penetration Details

SCALE :

SHEET NO.

P-9



FIRE ALARM GROUND FLOOR PLAN

NO FENCES OR GATES

SCALE: 1/4" = 1'-0"

N

FIRE ALARM LEGEND

COUNT	SYMBOL	DEVICE TYPE
1	FACP	FIRE ALARM CONTROL PANEL (MS-9200UDLS)
2	F	PULL STATIONS FIRE LITE (BG12LX)
4	HS	HORN / STROBE SYSTEM SENSOR (P2WH-LH)
1	HS	HORN / STROBE SYSTEM SENSOR (P2W) GRASS
8	H	MINI HORN SYSTEM SENSOR (MHW)
5	L	STROBE LIGHT SYSTEM SENSOR (SR)
3	L WP	STROBE LIGHT SYSTEM SENSOR (SRK)
1	H/F	HEAT DETECTOR FIRE
1	S	SMOKE DETECTOR (SD355)
19	S	SMOKE DETECTOR SYST. SENSOR (B200S) SOUNDER BASE
4	T	TAMPER SWITCH SYSTEM. SENSOR (PIBV2)
4	W	WATERFLOW DETECTOR SYSTEM SENSOR (WFD20)
5	M	MINI MONITOR MODULE FIRE LITE (MMF-301)
2	W	CONTROL MODULE FIRE LITE (CMF-300)

(WP) = WEATHERPROOF DEVICE
(CM) = CEILING MOUNTED DEVICE

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Email: rda@rda-archint.com
www.rda@rda-archint.com / AA26002510

CONSULTANT ENGINEER:

KEY PLAN

SIGNATURE / DATE / SEAL

NOT VALID IF MISSING SIGNATURE

STATE OF FLORIDA · VICTOR HUGO RODRIGUEZ · AR94965 · REGISTERED ARCHITECT

Victor H. Rodriguez,
Registered Architect
State of Florida # AR0094965
305 . 282 . 0005 vh.rodriguez@rda-archint.com

PERMIT SET

Issue	Issue Date / For
1	09.12.2016 / Change of Architect
A	12.05.2016 / Owner Revisions
B	05.29.2018 / Reviewer Comments

DDCI Project #: **1628.00**
Drawn by: **VHR**
Approved by: **VHR**

SHEET INDEX

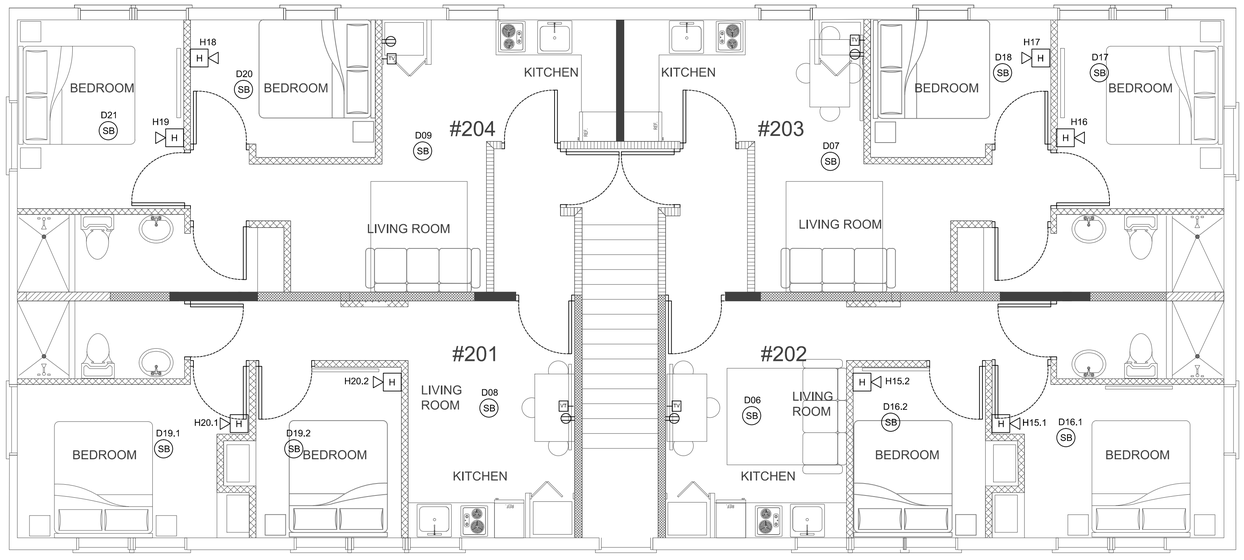
- Fire Alarm Ground Floor

SCALE :

SHEET NO.

FA-1

5/29/2018 11:27:49 AM



FIRE ALARM SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"

N

FIRE ALARM LEGEND

COUNT	SYMBOL	DEVICE TYPE
1	FACP	FIRE ALARM CONTROL PANEL (MS-9200UDLS)
2	F	PULL STATIONS FIRE LITE (BG12LX)
4	HS	HORN / STROBE SYSTEM SENSOR (P2WH-LH)
1	HS	HORN / STROBE SYSTEM SENSOR (P2W)
8	H	MINI HORN SYSTEM SENSOR (MHW)
5	L	STROBE LIGHT SYSTEM SENSOR (SR)
3	L WP	STROBE LIGHT SYSTEM SENSOR (SRK)
1	H/F	HEAT DETECTOR FIRE LIGHT (H3550)
1	S	SMOKE DETECTOR (SD355)
19	S	SMOKE DETECTOR SYST. SENSOR W/SOUNDER BASE
4	T	TAMPER SWITCH SYSTEM. SENSOR (PIBVZ)
4	W	WATERFLOW DETECTOR SYSTEM SENSOR (WFD20)
5	M	MINI MONITOR MODULE FIRE LITE (MMF-301)
2	W	CONTROL MODULE FIRE LITE (CMF-300)
		(WP) = WEATHERPROOF DEVICE (CM) = CEILING MOUNTED DEVICE

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AA26002510

INTERIOR DESIGNER:

KEY PLAN

SIGNATURE / DATE / SEAL

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PERMIT SET

Issue	Issue Date / For
1	12.05.2016 / Owner Revisions

DDCI Project #: **1628.00**
Drawn by: **VHR**
Approved by: **VHR**

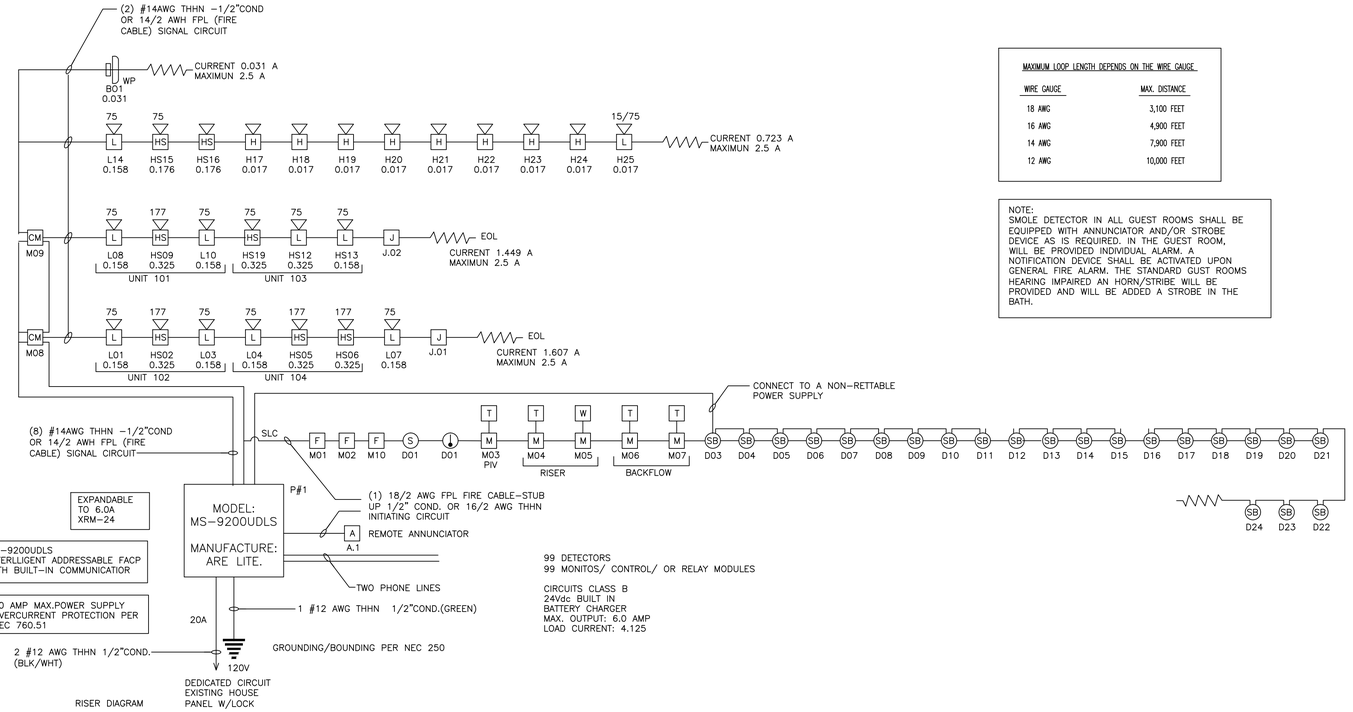
SHEET INDEX

- Fire Alarm Plan Level 2

SCALE :

SHEET NO.

FA-2



RISER DIAGRAM

MAXIMUM LOOP LENGTH DEPENDS ON THE WIRE GAUGE	
WIRE GAUGE	MAX. DISTANCE
18 AWG	3,100 FEET
16 AWG	4,900 FEET
14 AWG	7,900 FEET
12 AWG	10,000 FEET

NOTE:
SMOLE DETECTOR IN ALL GUEST ROOMS SHALL BE EQUIPPED WITH ANNUNCIATOR AND/OR STROBE DEVICE AS IS REQUIRED. IN THE GUEST ROOM, WILL BE PROVIDED INDIVIDUAL ALARM. A NOTIFICATION DEVICE SHALL BE ACTIVATED UPON GENERAL FIRE ALARM. THE STANDARD GUST ROOMS HEARING IMPAIRED AN HORN/STRIBE WILL BE PROVIDED AND WILL BE ADDED A STROBE IN THE BATH.

FIRE ALARM RISER DIAGRAM

BATTERY CALCULATION -PANEL					
		STANDBY/DEVICE (AMPS)	ALARM/DEVICE (AMPS)	TOTAL STANDBY CURRENT (AMP)	TOTAL ALARM CURRENT (AMP)
MAIN BOARD	1	0.1450	0.2750	0.1450	0.2750
SD355 SMOKE DET.SOUNDER BASE	19	0.0003	0.0000	0.005700	0.0000
SD355 SMOKE DETECTOR	1	0.0003	0.0000	0.000300	0.0000
BG-12LX PULL STATION	2	0.0003	0.0000	0.000600	0.0000
MMF -301 MONITOR MODULE	5	0.0004	0.0000	0.001875	0.0000
HEAT DETECTOR	1	0.0030	0.0000	0.003000	0.0000
ANN-80 REMOTE ANNUNCIATOR	1	0.0150	0.0400	0.0150	0.0400
CIRCUIT #1	1		1.6070		1.6070
CIRCUIT #2	1		1.4490		1.4490
CIRCUIT #3	1		0.7230		0.7230
CIRCUIT #4	1		0.0310		0.0310
			TOTAL	0.171464	4.124994
			A/H REQUIRED STANDBY/ALARM (AMPS/HRS)	4.115136	
			A/H REQUIRED ALARM TIME (5 MINS)		0.346499
				SUB-TOTAL STANDBY/ALARM (AMPS/HRS)	4.461636
				MULTIPLY BY THE DERATING FACTOR (1.2)	5.35
				USE BATTERY SIZE	7.0 A/H

VOLTAGE DROP CALCULATION									
CIRCUIT DESCRIPTION	MAXIMUM LOAD (AMP)	CURRENT LOAD (AMP)	VOLTAGE RANGE (VOLTS)	WIRE SIZE (AWG)	DC RESSISTANCE (Ohm/Ft)	DISTANCE (Ft)	STARTING VOLTAGE	VOLTAGE DRIOP	ENDING VOLTAGE
CIRCUIT #1	2.5	1.6070	16-33	14	0.00307	350	20.4	3.3443	16.95
CIRCUIT #2	2.5	1.4490	16-33	14	0.00307	350	20.4	3.113901	17.29
CIRCUIT #3	2.5	0.7230	16-33	14	0.00307	350	20.4	1.553727	18.85
CIRCUIT #4	2.5	0.0310	16-33	14	0.00307	100	20.4	0.019034	20.38
		0.0000	16-33	16	0.00489	0	20.4	0.00000	20.40
		0.0000	3-28	18	0.00777	0	20.4	0.00000	20.40
TOTALS	6.0	3.8100							

F/A NOTE :

- REFER TO FIRE ALARM DRAWINGS FOR CONCEPTUAL FIRE ALARM DESIGN. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR PERMIT.

2 - FIRE ALARM SHOP DRAWINGS TO BE SIGN/SEAL BY A FLORIDA REGISTERED ENGINEER. SEE THE 2014 FBC SECT. 105.3.1.2.4.

TYPICAL FOR UNLOCK DOOR
COORDINATE WITH ARCHITECTURAL FOR POWER REQUIREMENT AND CONDUIT ROUGHING . SEE DOOR HARDWARE DETAILS.

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AA26002510

INTERIOR DESIGNER:

KEY PLAN

SIGNATURE / DATE / SEAL

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PERMIT SET

Issue	Issue Date / For
1	12.05.2016 / Owner Revisions
2	05.05.2017 / Reviewer Comments

DDCI Project #: **1628.00**
Drawn by: **VHR**
Approved by: **VHR**

SHEET INDEX

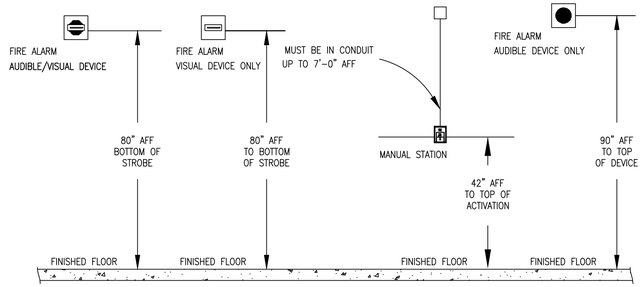
- Riser Diagram
- Calculations

SCALE :

SHEET NO.

FA-3

MOUNTING HEIGHTS



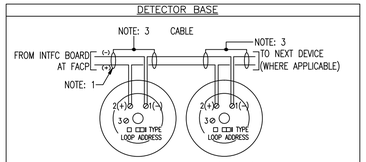
TYPICAL ELEVATION DETAIL OF AUDIBLE/VISUAL ALARM DEVICE

TYPICAL ELEVATION DETAIL OF VISUAL ALARM DEVICE

TYPICAL ELEVATION DETAIL OF MANUAL PULL STATION

TYPICAL ELEVATION DETAIL OF AUDIBLE DEVICE

DETECTOR BASE



WIRING FOR ADB-FL BASE (STYLE 4)

NOTE 1: DETECTOR (SLC LOOP) TO BE INSTALLED USING TWISTED FPL WIRE

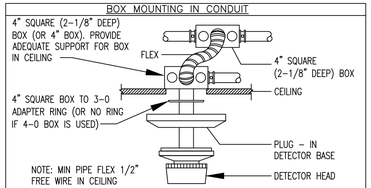
NOTE 2: DO NOT LOOP WIRE UNDER TERMINALS 1 & 2. BREAK WIRE RUN TO PROVIDE SUPERVISION

NOTE 3: OBSERVE POLARITY. DO NOT GROUND CONTROL WIRES OR SHIELDS. TIE SHIELDS TOGETHER AT EACH DETECTOR.

NOTE 4: SET THE ROTARY DIALS ON THE REAR OF THE DETECTOR HEAD TO CORRESPOND TO THE LAST TWO DIGITS OF THE DEVICE LOOP ADDRESS. REFER TO THE FLOOR PLANS FOR THE DETECTOR DEVICE

NOTE 5: RECORD THE LOOP ADDRESS & DEVICE TYPE IN THE SPACES PROVIDED ON

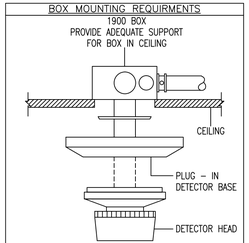
BOX MOUNTING IN CONDUIT



BOX MOUNTING IN LIFT OUT OR INTERLOCKING TYPE CEILINGS WITH SYSTEMS INSTALLED IN CONDUIT

THIS DIAGRAM IS FOR REPRESENTATIVE PURPOSES ONLY, AND IS NOT AN EXACT SPECIFICATION.

BOX MOUNTING REQUIRMENTS



BIG MOUNTING IN SHEET ROCK OR PLASTER TYPE CEILINGS (MUST BE INSTALLED WITH CONDUIT)

THIS DIAGRAM IS FOR REPRESENTATIVE PURPOSES ONLY, AND IS NOT AN EXACT SPECIFICATION.

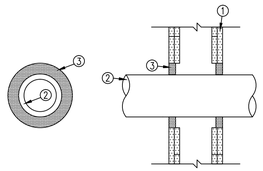
NOT TO SCALE

CLASSIFIED UL SYSTEM

1 OR 2 HOUR FIRE RATED THROUGH PENETRATION FIRESTOP FOR SINGLE METAL PIPE THROUGH GYPSUM WALLS USING TREMSTOP WBM.

F-RATING = 1 AND 2 HR.
T-RATING = 0 AND 1/2 HR.

WL1147



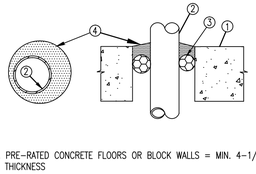
1. 1 OR 2 – HOUR FIRE RATED GYPSUM WALLBOARD/STUD ASSEMBLY
2. A) STEEL PIPE – 6" DIAM.(OR SMALLER) SCH. 40 (OR HEAVIER) STEEL
   B) CONDUIT – 4" DIAM.(OR SMALLER) EMT OR RIGID STEEL
3. TREMSTOPWBM – FILL MAX. 3/4" ANNULUS AT A THICKNESS OF 1 " (2 HR. F-RATING) OR 3/4" (1 HR. F-RATING).

CLASSIFIED UL SYSTEM

2 HOUR FIRE RATED THROUGH PENETRATION FIRESTOP FOR SINGLE PLASTIC PIPE THROUGH CONCRETE FLOORS OR WALLS USING BLAZEMASTER CAULK & WALK

F-RATING = 2 HR.
T-RATING = 1-1/2 HR.

CAJ 2221



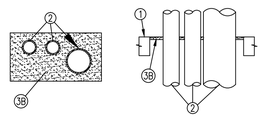
1. PRE-RATED CONCRETE FLOORS OR BLOCK WALLS = MIN. 4-1/2" THICKNESS
2. PLASTIC PIPE – A) NOM. 2" DIAM. (OR SMALLER) SCH. 40 PVC PIPE.
   B) NOM. 2" DIAM. (OR SMALLER) CPVC PIPE THE ANNULAR SPACE RANGE SHALL BE MIN MIN 1/4" TO MAX 3/8"
   NOTE: FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
3. FORMING MATERIAL – FOAM BACKER ROD FIRMLY PACKED INTO THE OPENING AS A PERMANENT FORM.
4. BLAZEMASTER CAULK & WALK – MIN 1/2" THICKNESS OF SEALANT APPLIED WITHIN OPENING, FLUSH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL ASSEMBLY

CLASSIFIED UL SYSTEM

2 HOUR FIRE RATED THROUGH PENETRATION FIRESTOP FOR MULTIPLE METAL PIPE THROUGH CONCRETE FLOORS OR WALLS USING FYRE-SHIELD.

F-RATING = 2 HR.
T-RATING = 0 HR.

CAJ-1304



1. FLOOR OR WALL ASSEMBLY = 4" THICK CONCRETE, MAX. AREA OF OPENING IS 288 SQ. IN.
2. COPPER PIPE: 4" DIA. (OR SMALLER) REGULAR (OR HEAVIER) COPPER. STEEL PIPE: 8" DIA. (OR SMALLER) SCH.40 (OR HEAVIER) STEEL. CONDUIT: 4" DIA. (OR SMALLER) EMT OR 6" DIA. (OR SMALLER) STEEL CONDUIT. COPPER TUBING: 4" DIA.(OR SMALLER) TYPE L(OR HEAVIER) COPPER. IRON PIPE: 8" DIA.(OR SMALLER) CAST OR DUCTILE IRON. MAX. NUMBER OF PIPES WITH OPENING IS THREE (3).
3 A) FORMING MATERIAL – (NOT SHOWN) – NOM. 1" THICK POLY URETHANE BACKER ROD FRICTION FITTED INTO OPENING.
   B) NOM. ½" FYRE-SHIELD THICKNESS INSTALLED WITHIN OPENING.

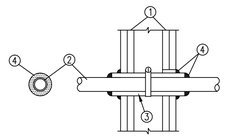
NOTE: FOR WALL APPLY FYRE-SHIELD TO BOTH SURFACES OF WALL.

CLASSIFIED UL SYSTEM

1 OR 2 HOUR FIRE RATED THROUGH PENETRATION FIRESTOP FOR PLASTIC PIPE THROUGHGYPSUM WALLS USINGFYRE-CAN SLEEVE

F-RATING = 2 HR.
T-RATING = 1 HR.

WL2151

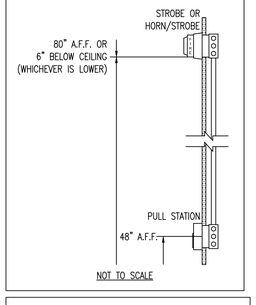


1. PRE-RATED GYPSUM WALLBOARD/STUD ASSEMBLY.
2. PLASTIC PIPE – 3" DIA. OR 2" DIA. SCH.40 PVC FOR USE IN CLOSED OR VENTED PIPING SYSTEMS.
3. FYRE-CAN SLEEVE/INTUMESCENT DEVICE:

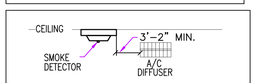
NOM. PIPE DIAM. (IN.)	DEVICE SIZE	DIAM. OF OPENING (IN.)	ANNULAR SPACE (IN.)
2	TS2	3-1/2	1/4 TO 7/8
3	TS3	4-3/4	1/2 TO 3/4

4. TREMSTOP WBM – MIN. 1/4" THICK SEALANT APPLIED AT SLEEVE/PIPE AND SLEEVE/WALL INTERFACES.

ADA HEIGHT REQUIRMENTS



NOT TO SCALE



SMOKE DETECTOR MOUNTING DETAIL
N.T.S

SEQUENCE OF OPERATIONS:

MANUAL PULL STATIONS:
THE ACTIVATION OF A MANUAL PULL STATION SHALL INITIATE AN "ALARM" CONDITION IN THE BUILDING FOR EVACUATION PURPOSES. IT SHALL BE INSTALLED PER NFPA 72, (LAST EDITION) CHAPTER 5.12 AND NFPA 1 CHAPTER 13.7.3.3.1–8, OF THE FLORIDA FIRE PREVENTION CODE (LAST EDITION) AT NOT LESS THAN 3'–1/2" & NOT MORE THAN 4'–1/2" AFF. AN AUDIBLE ALARM TONE SHALL SOUND AT THE FIRE ALARM CONTROL PANEL AND THE LOCATION OF THE ALARM SHALL BE DISPLAYED, IN ENGLISH, AT THE CONTROL PANEL AND ANY REMOTE ANNUNCIATOR. THE ALARM SHALL ALERT THE BUILDING OCCUPANTS BY WAY OF HORNS, HORN/STROBES AND/OR STROBE DEVICES ON THE FLOOR OF ALARM , THE FLOOR ABOVE AND THE FLOOR BELOW, AS WELL AS ALL STAIRWELLS AND ELEVATOR CARS. (AN "ALL–CALL" TO EVACUATE THE ENTIRE BUILDING CAN BE GENERATED FROM THE FIRE ALARM CONTROL PANEL.) THE ALARM CONDITION SHALL BE REPORTED TO AN UL LISTED CENTRAL STATION COMPANY BY WAY OF DIGITAL COMMUNICATOR FOR THE PURPOSES OF FIRE DEPARTMENT NOTIFICATION AND ACTION.

SMOKE DETECTORS:
THE ACTIVATION OF A SMOKE DETECTOR SHALL INITIATE AN "ALARM" CONDITION IN THE BUILDING FOR EVACUATION PURPOSES AS PER NFPA 72, (LAST EDITION) CHAPTER 5.5. AN AUDIBLE ALARM TONE SHALL SOUND AT THE FIRE ALARM CONTROL PANEL AND THE LOCATION OF THE ALARM SHALL BE DISPLAYED, IN ENGLISH, AT THE CONTROL PANEL(S) AND ANY REMOTE ANNUNCIATORS. THE ALARM SHALL ALERT THE BUILDING OCCUPANTS BY WAY OF HORNS, HORN/STROBES AND/OR STROBE DEVICES ON THE FLOOR OF ALARM, THE FLOOR ABOVE AND THE FLOOR BELOW, AS WELL AS ALL STAIRWELLS AND ELEVATOR CARS. (AN ALL–CALL" TO EVACUATE THE ENTIRE BUILDING CAN BE GENERATED FROM THE FIRE ALARM CONTROL PANEL.) THE ALARM CONDITION SHALL BE REPORTED TO AN UL LISTED CENTRAL STATION COMPANY BY WAY OF DIGITAL COMMUNICATOR FOR THE PURPOSES OF FIRE DEPARTMENT NOTIFICATION AND ACTION. BY WAY OF DIGITAL COMMUNICATOR FOR THE PURPOSES OF FIRE DEPARTMENT NOTIFICATION AND ACTION.

CEILING MOUNTED SMOKE DETECTOR SHALL NOT BE LOCATED IN A DIRECT AIRFLOW, NOR CLOSER THAN 3' FROM AN AIR SUPPLY DIFFUSER IN ACCORDANCE WITH NFPA 72, (LAST EDITION) CHAPTER 5.7.4.1

WALL MOUNTE SMOKE DETECTOR SHALL BE MOUNTED 4" MINIMUM FROM CEILING WITH 12" MAXIMUM FROM CEILING, AS PER NFPA 72, (LAST EDITION) CHAPTER 5.7.3.2.1

IF APPLICABLE, THE ACTIVATION OF ANY CORRIDOR SMOKE DETECTOR SHALL RELEASE THE MAGNETIC HOLD OPEN DEVICES ASSOCIATED WITH ANY SMOKE/FIRE DOORS SO THAT THE DOORS CLOSE. MAGNETIC HOLD OPEN DEVICES ARE FAIL–SAFE AND SHALL RELEASE (CLOSE) ON A POWER FAILURE OF THE FIRE ALARM SYSTEM, PER NFPA 72, (LAST EDITION) CHAPTER 5.14.6 AND 6.15.6

SUPERVISORY SIGNAL INITIATING DEVICES:
(TAMPERS, PIV, FIRE PUMP SUPERVISION, EMERGENCY GENERATOR, ETC.) THE ACTIVATION OF A SUPERVISORY SIGNAL INITIATING DEVICE MODULE SHALL INITIATE A "SUPERVISORY TROUBLE" CONDITION AT THE FIRE ALARM CONTROL PANEL IN ACCORDANCE WITH NFPA 72, (LAST EDITION) CHAPTER 5.13. AN AUDIBLE SUPERVISORY TROUBLE TONE SHALL SOUND AT THE FIRE ALARM CONTROL PANEL(S) AND ANY REMOTE ANNUNCIATORS. THE SUPERVISORY CONDITION SHALL BE REPORTED TO AN UL LISTED CENTRAL STATION COMPANY BY WAY OF DIGITAL COMMUNICATOR.

ALARM MONITORING POINTS:
(KITCHEN HOOD SYSTEMS, SUPPRESSION PANEL, ETC.) THE ACTIVATION OF A MODULE THAT MONITORS AN ALARM POINT SHALL INITIATE AN "ALARM" CONDITION IN THE BUILDING FOR EVACUATION PURPOSES PER NFPA 72, (LAST EDITION)CHAPTER 6.8.5.6. AN AUDIBLE ALARM TONE SHALL SOUND AT THE FIRE ALARM CONTROL PANEL AND THE LOCATION OF THE ALARM SHALL BE DISPLAYED, IN ENGLISH, AT THE CONTROL PANEL(S) AND ANY REMOTE ANNUNCIATORS. THE ALARM SHALL ALERT THE BUILDING OCCUPANTS BY WAY OF HORNS, HORN/STROBES AND/OR STROBE DEVICES ON THE FLOOR OF ALARM, THE FLOOR ABOVE AND THE FLOOR BELOW, AS WELL AS ALL STAIRWELLS AND ELEVATOR CARS. (AN ALL–CALL" TO EVACUATE THE ENTIRE BUILDING CAN BE GENERATED FROM THE FIRE ALARM CONTROL PANEL.) THE ALARM CONDITION SHALL BE REPORTED TO AN UL LISTED CENTRAL STATION COMPANY BY WAY OF DIGITAL COMMUNICATOR FOR THE PURPOSES OF FIRE DEPARTMENT NOTIFICATION AND ACTION.

POWER UP AND POWER DOWN SEQUENCE FOR FIRE ALARM PANELS:

POWER DOWN:
1. DISCONNECT BATTERY
2. TURN OFF AC POWER PRIMARY & SECONDARY

POWER UP:
1. TURN ON AC POWER PRIMARY & SECONDARY
2. RECONNECT BATTERIES

F/A NOTES :

ALL FIRE ALARM WORK TO BE DONE BY THE LANDLORD'S APPROVED CONTRACTOR, THIS PERMIT ONLY FOR REFERENCE TO FIRE ALARM DRAWINGS FOR CONCEPTUAL FIRE ALARM DESIGN. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR PERMIT. FIRE ALARM SHOP DRAWINGS, SIGNED AND SEALED, AS REQUIRED BY THE JURISDICTION HAVING AUTHORITY NEW FIRE ALARM SYSTEM DETAILS AND REQUIREMENTS. THE SYSTEM TO BE INSTALLED IN ACCORDANCE WITH :

F.B.C. 2010, N.F.P.A. 72, N.F.P.A.–101, N.E.C. ARTICLES 250, 300 AND 760.

FIRE ALARM SPECIFICATIONS:

1. ALL EQUIPMENT SHALL BE NEW U.L. LISTED, AND SHALL BE LISTED FOR USE AND COMPATIBLE.
2. THE INSTALLATION OF THE FIRE ALARM SYSTEM SHALL COMPLY WITH NFPA 70, NATIONAL ELECTRICAL CODE (2008 EDITION), FLORIDA FIRE PREVENTION CODE (LAST EDITION), NFPA 72 (LAST EDITION), AND THE FLORIDA ACCESSIBILITY CODE PER FBC (2007 EDITION), 11–4.28
3. THE FIRE ALARM SYSTEM SHALL CONSIST OF A FIRE DETECTION CONTROL AND NOTIFICATION SYSTEM.
4. THE FIRE ALARM EQUIPMENT SHALL BE "POWER LIMITED".
5. THE FIRE ALARM CONTROL PANEL SHALL BE INTELLIGENT AND HAVE STANDBY BATTERY BACKUP AS PER NFPA 72, (LAST EDITION)CHAPTER 4.4.1 PROVIDING BATTERY POWER CAPACITY FOR THE ENTIRE SYSTEM TO OPERATE FOR 24 HOURS IN STANDBY MODE AND THE ENTIRE SYSTEM FOR 5 MINUTES IN THE ALARM MODE.
6. THE PRIMARY POWER SOURCE FOR THE FIRE ALARM SYSTEM SHALL BE CONNECTED TO A DEDICATED LOCKED CIRCUIT BREAKER.
7. CABLE TYPE, SIZE AND INSTALLATION REQUIREMENTS SHALL COMPLY WITH ARTICLE 760 OF NFPA 70, NATIONAL ELECTRICAL CODE (2008 EDITION) FOR POWER LIMITED FIRE PROTECTION SIGNALING CIRCITS–WIRING METHODS AND MATERIALS.
8. MINIMUM CABLE SIZE – REFER TO WIRE LEGEND.
9. ALL WIRING AND CONDUIT TO CONFORM TO NFPA 70, NATIONAL ELECTRICAL CODE (2008 EDITION). WIRE SHALL BE SOLID COPPER OR STRANDED COPPER WITH A MAXIMUM OF 7 STRANDS FOR SIZES 16 AND 18AWG. STRANDED COPPER WITH A MAXIMUM OF 19 STRANDS.
10. ALL WIRING INSTALLED IN DUCTS, PLENUMS AND OTHER SPACES USED FOR ENVIROMENTAL AIR SHALL BE TYPE FPLP, AS PER NFPA 70, NATIONAL ELECTRICAL CODE (2008 EDITION).
11. ALARM NOTIFICATION APPLIANCES SHALL BE VISUAL, AUDIBLE–VISUAL AND/OR AUDIBLE TYPE.
12. AUDIBLE COMPONENTS SHALL BE HORNS, AND SHALL CONFORM WITH NFPA 72 LAST EDITION), APTER 7.4 FOR LOCATION, SPACING AND AUDIBILITY REQ'S.
13. VISUAL DEVICES SHALL BE XENON, WITH A MINIMUM CANDELA RATING OF 75–CANDELA AND SHALL BE PLACED AT 80" TO THE BOTTOM OR 6" FROM THE CEILING WHICHEVER IS LOWER PER ARTICLE 4.28 OF THE FLORIDA ACCESSIBILITY CODE. VISUAL DEVICES SHALL CONFORM WITH NFPA 72 (LAST EDITION), CHAPTER 7.5 FOR SPACING IN ROOMS AND CORRIDORS. IF MORE THAN 2 VISUAL DEVICES ARE IN ANY FIELD OF VIEW THEY SHALL BE SYNCHRONIZED, PER NFPA 72 (LAST EDITION)CHAPTER 7.5.4.1.2(3) AND 7.5.4.2.7
14. THE LOCATION OF SMOKE DETECTORS SHALL BE SPECIFIED ON THE DRAWINGS. LOCATION AND PACING SHALL BE IN CONFORMANCE WITH NFPA 72 (LAST EDITION) CHAPTER 5.5.2, 5.7, 5.8 AND 5.9
15. MANUAL PULL STATIONS SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 72 (LAST EDITION)CHAPTER 5.1.2 AND THE FLORIDA FIRE PREVENTION CODE CHAPTER: 13.7.1.4.7.1–6
16. CONTRACTOR WILL MAKE ANY CORRECTIONS TO DRAWINGS TO REFLECT THE FIRE ALARM SYSTEM, AS FINALED. DEVICES SHOWN ON PLANS MAY NEED TO BE RELOCATED DUE TO ACTUAL BUILDING AND SPRINKLER DESIGN.
17. CIRCUIT POLARITY MUST BE OBSERVED.
18. CONDUIT, IF REQUIRED, SHALL BE NO MORE THAN 40%%% FILL, PER NFPA 70, NATIONAL ELECTRICAL CODE (2008 EDITION)
19. THE FIRE ALARM PANEL(S) SHALL NOT BE USED TO POWER ANY UNAUTHORIZED EXTERNAL DEVICES.
20. ALL FIRE STOP PENETRATIONS SHALL BE SEALED WITH A UL APPROVED FIRESTOP MATERIAL. (SEE FIRESTOP DETAIL)
21. THE FIRE ALARM PANEL MUST HAVE AN EARTH GROUND CONNECTION AS PER MANUFACTURER'S RECOMMENDATIONS AND ARTICLE 760 OF NFPA 70, NATIONAL ELECTRICAL CODE (2008 EDITION). MINIMUM WIRE SIZE IS 14 AWG FOR GND CONNECTION. (NOTE: PANEL NEUTRAL OR CONDUIT ROUND IS NOT ACCEPTABLE.)
22. ALL SURGE/TRANSIENT SUPPRESSERS MUST BE CONNECTED TO BUILDING OR COLD WATER GROUND.
23. FIRE ALARM RISER CIRCUITS SHALL BE CLASS "B", STYLE "Y" & STYLE "4".
24. A BREAK IN ANY FIELD WIRING OR GROUNDING OF ANY CONDUCTOR WILL RESULT IN THE ACTIVATION OF THE FIRE ALARM CONTROL PANEL(S) "TROUBLE" SIGNAL WHICH WILL PRODUCE AN AUDIBLE AND VISIBLE ANNUNCIATION AT THE PANEL(S) AND ANY REMOTE ANNUNCIATOR.
25. THE 120–VAC POWER FEED FOR THE FIRE ALARM PANELS AND POWER SUPPLIES MUST BE FROM A DEDICATED EMERGENCY PANEL. BREAKER AND THE BREAKER SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT", AS PER NFPA 72 (2010 EDITION)4.4.1.4.2.2
26. THE FIRE ALARM SYSTEM SHALL BE MONITORED OFF–PREMISE BY A UL LISTED CERTIFICATED CENTRAL STATION IN ACCORDANCE WITH NFPA 72, CHAPTER 8.2 (2010 EDITION)
27. TWO TELEPHONE LINES SHALL BE PROVIDED TO THE FIRE ALARM COMMUNICATOR FOR PURPOSES OF MONITORING THE FIRE ALARM SYSTEM. TELEPHONE LINES SHALL BE CONNECTED IN CONFORMANCE WITH NFPA 72, CHAPTER 8.5.3.2.1 (LAST EDITION)
28. UPON COMPLETION OF THE INSTALLATION A "CERTIFICATE OF COMPLETION" SHALL BE PROVIDED TO THE CUSTOMER AND THE LOCAL AUTHORITY HAVING JURISDICTION. A LOG BOOK SHALL REMAIN ON THE PREMISES THAT SHALL INCLUDE DRAWINGS, MANUALS, INSPECTION RECORDS, ETC.
29. ALL EQUIPMENT SHALL BE INSTALLED IN CONFORMITY OF THE LIFE SAFETY CODE (LAST EDITION)
30. THIS SYSTEM IS A CERTIFICATED CENTRAL STATION SERVICE AND A CERTIFICATE WILL BE PROVIDED FOR. IT WILL BE PLACED WITHIN 3' OF THE FIRE CONTROL PANEL.

PROJECT:

1330 Building

1330 15th Street. Miami Beach, FL 33139

PROJECT OWNER :

NOTUS, LLC
435 21st Street. Miami Beach, FL 33139

ARCHITECT OF RECORD:

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AA26002510

INTERIOR DESIGNER:

KEY PLAN

SIGNATURE / DATE / SEAL

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Registered Architect
State of Florida # AR0094965
305 . 282 . 0005 vh.rodriguez@rda-archint.com

PERMIT SET

Issue	Issue Date / For
1	12.05.2016 / Owner Revisions

DDCI Project #: **1628.00**

Drawn by: **VHR**

Approved by: **VHR**

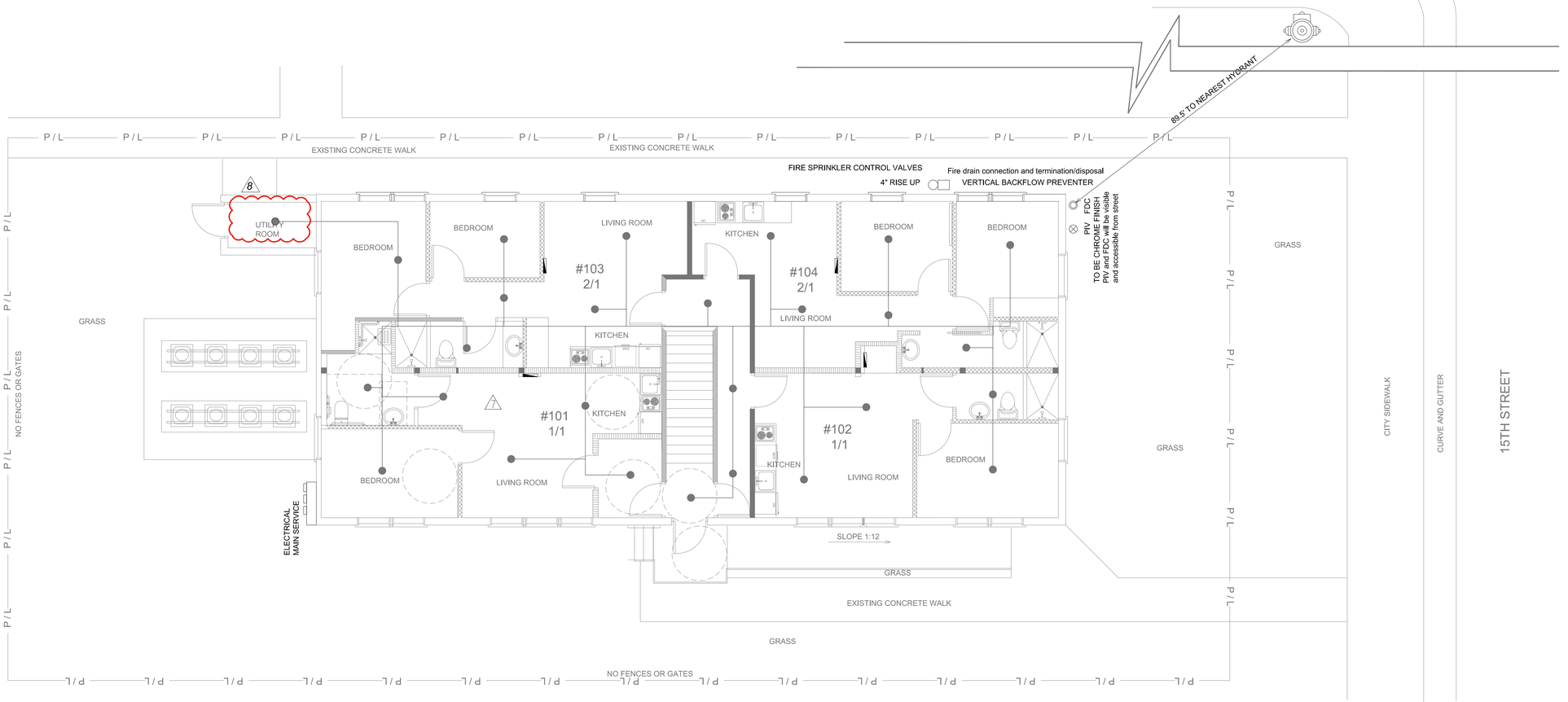
SHEET INDEX

- Fire Alarm Details

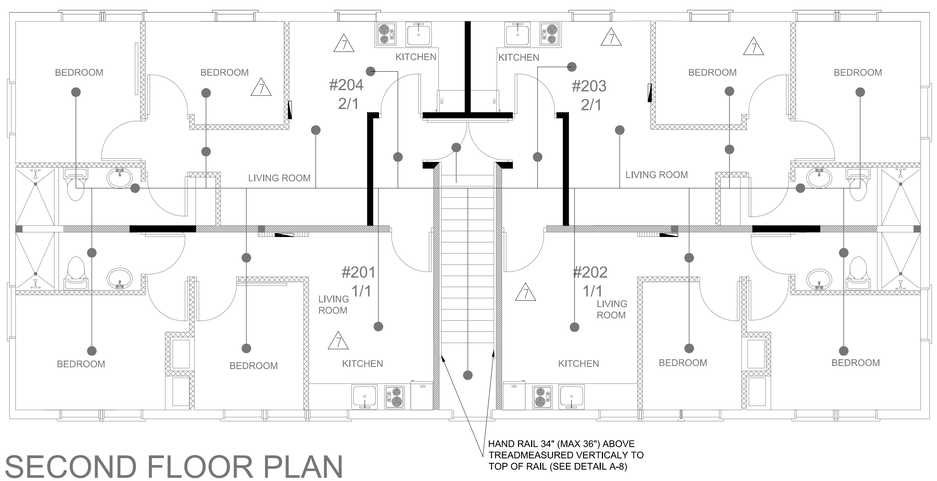
SCALE :

SHEET NO.

FA-4



FIRST (GROUND) FLOOR PLAN



SECOND FLOOR PLAN

SCALE: 3/16" = 1'-0"

NOTES:
Shop drawings will be provided for permiting which will include the required details, cut sheets, hanger locations, and calculations based on current city water flow test result.

Fire Sprinklers and the fire line service connection shall be under separate permit, and drawings will be provided.

Any work and/or use of equipment and/or improvements form/to the right of way including landscaping and irrigation, will require a separate CMB Public Works Department right-of-way construction permit.

The FDC and PIV will be visible and accessible and not be block by any vegetation.

The small attic space is not accessible and is not combustible.

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CONSULTANT ENGINEER:

KEY PLAN

SIGNATURE / DATE / SEAL

NOT VALID IF MISSING SIGNATURE

STATE OF FLORIDA · VICTOR HUGO RODRIGUEZ · AR94965 · REGISTERED ARCHITECT

Víctor H. Rodriguez,
Registered Architect
State of Florida # AR0094965
305 . 282 . 0005 vh.rodriguez@rda-archint.com

PERMIT SET

Issue	Issue Date / For
1	09.12.2016 / Change of Architect
6	02.19.2018 / City Comments
7	04.20.2018 / Reviewer Comments
8	05.29.2018 / Reviewer Comments

DDCI Project #: **1628.00**
Drawn by: **VHR**
Approved by: **VHR**

SHEET INDEX

- Fire Protection Levels 1 and 2

SCALE :

SHEET NO.

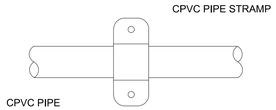
FP-1 6

5/29/2018 11:32:32 AM

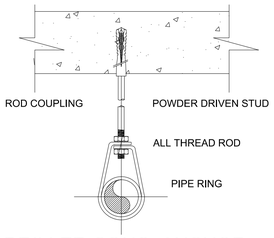
	FIRE SPRINKLER HEAD SCHEDULE				
	TYPE	ORIFICE SIZE	TEMP RATING	K FACTOR	MANUFACTURER & MODEL
○	SEMI-RECESSED PENDENT SPRINKLER HEAD	1/2"	155° F	5.6	TYCO, QUICK RESPONDE MODEL TY3234
○	UPRIGHT GLASS BULB	1/2"	155° F	5.6	TYCO, QUICK RESPONDE MODEL TY3131
⊗	EXTENDED COVERAGE UPRIGHT SPRINKLER HEAD	3/4"	155° F	5.6	TYCO, QUICK RESPONDE MODEL TY3131 EXTENDED COVERAGE
◁	SIDEWALL GLASS BULB	1/2"	155° F	4.2	TYCO, QUICK RESPONDE MODEL TY1334

FIRE HOSE VALVE DETAIL

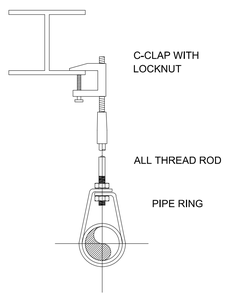
NTS



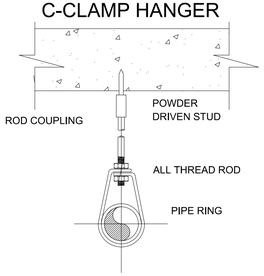
DOUBLE FASTENER CPVC PIPE STRAP

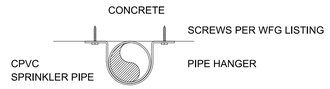


DRILLER CONC. ANCHOR HANGER



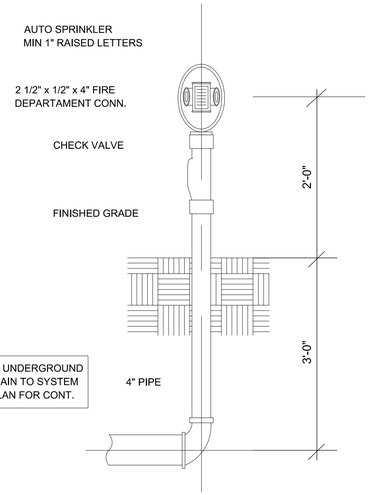
C-CLAMP HANGER

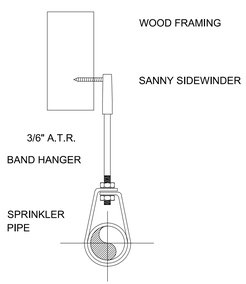




DOUBLE FASTENER CPVC PIPE STRAP

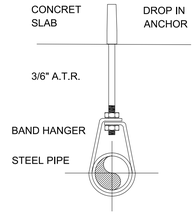
N.T.S.





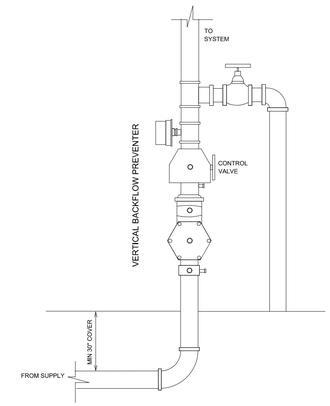
WOOD FRAME HANGER DETAIL

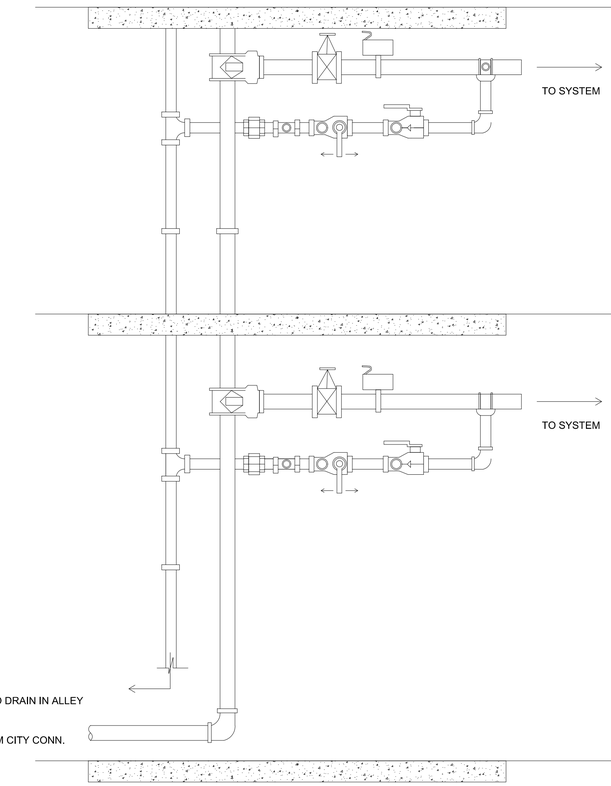
N.T.S.



CONCRETE HANGER DETAIL

N.T.S.





TYPICAL SECTION

PROJECT:

1330 Building

1330 15th Street. Miami Beach, FL 33139

PROJECT OWNER :

NOTUS, LLC
435 21st Street. Miami Beach, FL 33139

ARCHITECT OF RECORD:

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CONSULTANT ENGINEER:

KEY PLAN

SIGNATURE / DATE / SEAL

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STATE OF FLORIDA · VICTOR HUGO RODRIGUEZ · AR94965 · REGISTERED ARCHITECT

Victor H. Rodriguez,
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PERMIT SET

Issue	Issue Date / For
7	04.20.2018 / Reviewer Comments

DDCI Project #: **1628.00**
Drawn by: **VHR**
Approved by: **VHR**

SHEET INDEX

- Fire Sprinklers Details
- Schedule

SCALE :

SHEET NO.

FP-2