LEGEND

	SUPPLY DIFFUSER (NEW)
	RETURN GRILLE (NEW)
	SUPPLY DIFFUSER (FLOOR ABOVE)
	RETURN GRILLE (FLOOR ABOVE)
10x10	RA TRANSFER GRILLE
EF-1	EXHAUST FAN
T	THERMOSTAT 4'-0" A.F.F.
R	REMOTE TEMPERATURE SENSOR
C	CARBON DIOXIDE SENSOR
	RECTANGULAR DUCT
	FLEXIBLE DUCT
	ROUND RIGID DUCT
	TURNING VANES
VD	VOLUME DAMPER
BDD	BACKDRAFT DAMPER
SD	SPLITTER DAMPER
FD	FIRE DAMPER WITH 8x8 ACCESS DOOR
C	CONDENSATE PIPING
S	DUCT-MOUNTED SMOKE DETECTOR
CU	CONDENSING UNIT
DF	DUCT FURNACE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
CC	COOLING COIL
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
HP	HEAT PUMP
PH	PERIMETER HEAT
RA	RETURN AIR
RTU	ROOFTOP UNIT (PACKAGED)
SA	SUPPLY AIR
SP	STATIC PRESSURE
VAV	VARIABLE AIR VOLUME
	DOOR UNDER CUT 3/4"
	DOOR LOUVER
	CONNECT NEW TO EXISTING
	POINT OF DEMLOITION
VAV-1	VAV BOX
PH-1	PERIMETER HEAT BOX

MECHANICAL GENERAL NOTES

1. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING CONFIGURATION, ETC.

2. INSTALLATION OF ANY EQUIPMENT SHALL BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS. CONTRACTOR TO COORDINATE THE SHOP DRAWING INFORMATION WITH ALL OTHER TRADES. (EXAMPLE ROOFTOP UNITS PHYSICAL SIZE AND WEIGHT MUST BE COORDINATED WITH STRUCTURAL SYSTEMS THRU GENERAL CONTRACTOR, LIKEWISE ALL ELECTRICAL CHARACTERISTICS WILL REQUIRE COORDINATION THRU GENERAL CONTRACTOR WITH ELECTRICAL CONTRACTOR).

3. ALL DUCTWORK SHALL BE SUPPORTED AS PER SMACNA STANDARDS.

4. ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER TRADES, TO AVOID INTERFERENCE.

5. ALL RECTANGULAR AND ROUND DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. ALL SQUARE ELBOWS SHALL HAVE DOUBLE THICKNESS TURNING VANES.

6. MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO CFM'S INDICATED ON PLANS AND PROVIDE ARCHITECT WITH COMPLETE BALANCE REPORT.

7. NEW FLEXIBLE DUCT SHALL BE INSULATED THERMAFLEX M-KE OR APPROVED EQUAL. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0".

8. LOCATE ALL THERMOSTATS AND SWITCHES 4'-6" ABOVE FINISHED FLOOR.

9. ALL DUCTWORK SPECIFIED OR NOTED TO BE LINED SHALL BE LINED WITH ONE INCH THICK DUCT LINER HAVING NOT LESS THAN A "k" VALUE OF 0.22 AT 75° F. MEAN TEMPERATURE WITH ONE SIDE COATED FACING AIR STREAM CONFORMING TO THE DUCT LINE MATERIALS STANDARD AHC-101 DATED 1975 OF THE NATIONAL INSULATION MANUFACTURERS ASSOCIATION.

10. ALL DUCTWORK SPECIFIED OR NOTED TO BE LINED SHALL BE INCREASED IN SIZE TO ALLOW FOR LINER. DUCT DIMENSIONS SHOWN OR NOTED ON PLANS ARE INSIDE CLEAR.

11. SPACE ABOVE CEILING TO BE USED AS RETURN AIR PLENUM WHERE DUCT IS NOT INDICATED ABOVE RETURN AIR GRILLES. DUCTS RETURNING AIR ABOVE CEILING SHALL BE OPEN END WITH BOXED EDGES.

12. ANY DEVICE REQUIRING A THERMOSTAT FOR CONTROL SHALL BE FURNISHED WITH A THERMOSTAT WHETHER INDICATED ON THE DRAWINGS OR NOT. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FURNISH ALL THERMOSTATS, CONTROLS, ETC.

13. ALL CUTTING, PATCHING OF SLAB, ROOF OR OTHER BUILDING COMPONENTS TO BE BY THE GENERAL CONTRACTOR.

14. WHERE INDICATED, THERMOSTATS SHALL HAVE OPAQUE PLASTIC LOCKING GUARDS FURNISHED BY THERMOSTAT MANUFACTURER AS STANDARD ACCESSORY SIMILAR TO WHITE-ROGERS PLASTIC THERMOSTAT GUARDS.

15. THE TOPS OF ALL SUPPLY AND RETURN AIR DISTRIBUTION ON A DUCTED RETURNED SYSTEM SHALL BE INSULATED WITH 1-1/2" THICK BATT INSULATION WITH VAPOR BARRIER.

16. ALL PIPING, DUCTS, VENTS, ETC., EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED AND COUNTERFLASHED IN A WATERPROOF MANNER.

17. EXTEND ALL DRAIN LINES TO SPLASHBLOCK OR AS INDICATED, SO ROUTED AS TO AVOID INTERFERENCE WITH PASSAGEWAYS AND MAINTENANCE. DRAINS FROM AIR HANDLING UNITS SHALL BE TRAPPED. ALL DRAIN LINES SHALL BE INSULATED.

18. ALL PIPING AND DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY THROUGH FLOORS AND PARTITIONS.

19. EXTEND DRAIN LINES FROM RELIEF VALVES TO NEAREST FLOOR DRAIN.

20. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS AND FURTHER SUPPORTS OR HANGERS AS REQUIRED TO PREVENT THE WEIGHT OF PIPING BEING PLACED ON EQUIPMENT.

21. MINIMUM PIPE SIZE SHALL BE 1/2".

22. RUNOUTS SHALL PITCH DOWN IN DIRECTION OF FLOW A MINIMUM OF 1" IN 3'-0".

23. ALL CONCRETE PADS UNDER MECHANICAL EQUIPMENT SHALL BE 4" THICK REINFORCED WITH 6x6 10/10 WIRE MESH BY MECHANICAL CONTRACTOR, UNLESS NOTED OTHERWISE. COORDINATE PAD LOCATIONS WITH GENERAL CONTRACTOR TO VERIFY KEY LOCATIONS.

24. PROVIDE A DIELECTRIC FITTING BETWEEN FERROUS AND NON-FERROUS PIPING.

25. FIRE DAMPERS SHALL BE INSTALLED WHERE SHOWN ON PLANS AND AT SLAB, WHERE DUCTS PASS THROUGH RATED FLOORS.

26. HVAC SYSTEM TEST AND BALANCE (TAB) SHALL BE PROVIDED BY AN INDEPENDENT NEBB OR AABC CERTIFIED TEST AND BALANCE COMPANY, WORKING AS A SUBCONTRACTOR OF THE GENERAL CONTRACTOR. THE TAB SHALL BE COMPLETED AND RESULTS SENT TO THE MECHANICAL ENGINEER OF RECORD. THE RESULTS WILL BE REVIEWED BY THE ENGINEER WHO WILL NOTE ANY DEFICIENCIES IN HIS REPORT. THE MECHANICAL CONTRACTOR SHALL THEN CORRECT ANY SYSTEM DEFICIENCIES AND RESUBMIT THE TAB REPORT TO THE ENGINEER. ALL SYSTEM DEFICIENCIES SHALL BE ADDRESSED BY MECHANICAL CONTRACTOR AND THE TAB REPORT SHALL BE APPROVED BY THE MECHANICAL ENGINEER OF RECORD PRIOR TO BUILDING OCCUPANCY.

DUCT SMOKE DETECTORS

1. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL DUCT-MOUNTED SMOKE DETECTORS, ONE IN THE SUPPLY DUCT, AND ONE IN THE RETURN DUCT OF EACH AIR HANDLING UNIT WHERE INDICATED ON THE PLANS.

2. EACH DETECTOR SHALL BE WIRED SUCH THAT WHEN THE DETECTOR ACTIVATES, IT SHUTS DOWN THE UNIT IN WHICH IT IS INSTALLED.

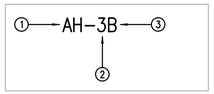
3. THE DETECTORS SHALL BE IONIZATION TYPE. AN ACCESS DOOR SHALL BE PROVIDED IN THE DUCT TO ALLOW FOR TESTING OF THE DETECTOR.

4. THE MONITORING STATION SHALL BE WIRED TO THE DETECTORS TO DISPLAY AN ALARM WHEN EITHER OF THE TWO DETECTORS IS ACTIVATED (WIRED IN SERIES).

5. THE DETECTORS SHALL BE PROVIDED WITH A SET OF AUXILIARY CONTACTS FOR THE ELECTRICAL CONTRACTOR TO MAKE A CONNECTION TO THE FIRE ALARM PANEL. THE CONNECTION ALLOWS THE FIRE ALARM CONTROL PANEL (FACP) TO SENSE WHEN A DETECTOR IS IN THE ALARM MODE. MONITORING OF DETECTOR STATUS SHALL BE AT THE ALARM PANEL. THE FACP DOES NOT SHUT DOWN THE AIR HANDLING UNIT, THE DETECTOR SHUTS DOWN THE UNIT IF THE DETECTOR ACTIVATES. THE MECHANICAL CONTRACTOR SHALL WIRE THE DETECTORS TO SHUT-DOWN THE UNIT IN THE EVENT THAT SMOKE IS DETECTED.

HVAC UNIT TAGS

1. TYPE OF UNIT
   - AH AIR HANDLING UNIT
   - CU CONDENSING UNIT
   - DF DUCT FURNACE
   - GF GAS FURNACE
   - HP HEAT PUMP
   - PG PACKAGED GAS UNIT
   - PT PACKAGED TERMINAL UNIT



2. UNIT NUMBER

3. LETTER DESIGNATES MORE THAN ONE UNIT WITHIN A ZONE

MECHANICAL DRAWING INDEX

DEDICATED OUTDOOR AIR (DOAS) - PACKAGED ROOFTOP UNIT

UNIT INFORMATION

MARK	MAU-1
WEIGHT (LBS)	6000
SUPPLY CFM	10,000
SUPPLY ESP (IN.W.G.)	2.50

COOLING SECTION

TOTAL CAPACITY	855.10 MBH
SENSIBLE CAPACITY	317.66 MBH
ENTERING AIR TEMP	85.7 °F DB / 80.25 °F WB
LEAVING AIR TEMP	55.43 °F DB / 55.23 °F WB

HEATING SECTION

INPUT CAPICITY	810.00 MBH
OUTPUT CAPACITY	648.00 MBH
ENTERING AIR TEMP	17.6 °F
LEAVING AIR TEMP	77.5 °F

SUPPLY FAN

HP	15.0
FRPM	1188

ELECTRICAL DATA

VOLTAGE	208/3
COMP RLA	4 X 55.8
EVAP FAN FLA	46.2
COND FAN FLA	6 X 7.0
MCA	325
MAX FUSE	350

STANDARD OF PERFORMANCE

AAON RN-070-8-0-BA04-3D9

REMARKS:

1. FACTORY ASSEMBLED, PIPED, WIRED AND TESTED AS A SINGLE PACKAGE
2. UNIT SHALL INCLUDE A 100% OUTSIDE AIR HOOD WITH 2 POSITION MOTORIZED DAMPER
3. UNIT SHALL INCLUDE 4 STAGE COOLING, 4 COMPRESSOR CIRCUITS WITH INTERLACED-CIRCUIT DX COIL (HORIZONTAL SPLIT NOT ACCEPTABLE)
4. UNIT SHALL INCLUDE 5:1 MODULATING NATURAL GAS HEATING WITH 304 SERIES STAINLESS STEEL HEAT EXCHANGER WITH A 25 YEAR WARRANTY (PARTS ONLY)
5. UNIT SHALL INCLUDE HOT GAS BYPASS ON FIRST REFRIGERATION CIRCUIT (FROST-STAT COMPRESSOR CYCLING NOT ACCEPTABLE)
6. UNIT SHALL INCLUDE MODULATING HOT GAS REHEAT COIL FOR DEHUMIDIFICATION (2-POSITION OR DEDICATED HEAT PUMP CIRCUIT NOT ACCEPTABLE)
7. UNIT SHALL INCLUDE STAINLESS STEEL DRAIN PAN
8. UNIT SHALL INCLUDE MANUAL RESET HIGH PRESSURE SWITCHES & AUTO RESET LOW PRESSURE SWITCHES
9. UNIT SHALL INCLUDE ECM CONDENSER FAN MOTORS FOR CONDENSER HEAD PRESSURE CONTROL
10. UNIT SHALL INCLUDE 4" MERV 12 FILTERS AND 2" MERV 8 PRE-FILTERS
11. CONTROLS: WATTMASTER/ORION VCMX CONTROLLER WITH AMBIENT DEWPOINT SENSOR; ELECTRONIC SEQUENCING OF COMPRESSORS AND HEATING AND MODULATING HOT GAS RE-HEATING.
    THE INTENTION OF THIS UNIT IS TO PROVIDE CONTINUOUS DEHUMIDIFICATION OF OUTSIDE AIR WHILE ALSO PROVIDING TEMPERATURE CONTROL TO THE SPACE IT SERVES. IF THIS CAUSES OVERCOOLING IN THE SPACE, THE MODULATING HOT GAS REHEAT VALVE SHALL OPEN TO SATISFY THE CONDITIONED SPACE REQUIREMENT. FIELD MOUNTED CONTROLS SHALL INCLUDE A DUCT MOUNTED LEAVING AIR STAT AND A WALL MOUNTED STAT (SEE PLANS FOR LOCATION). ALL UNIT MOUNTED CONTROLS FOR COMPLETE OPERATION SHALL BE INSTALLED BY THE EQUIPMENT MANUFACTURER.
12. 2" FOAM INJECTED INSULATED (MINIMUM R13 VALUE) DOUBLEWALL CABINET CONSTRUCTION
13. UNIT SHALL INCLUDE INTEGRAL NON-FUSED DISCONNECT
14. DUCT MOUNTED SMOKE DETECTOR PROVIDED BY ELECTRICAL, INSTALLED BY MECHANICAL
15. UNIT SHALL INCLUDE A 36" HIGH FACTORY ASSEMBLED AND INSULATED ROOF CURB/PLENUM WITH VIBRATION ISOLATION RAILS
16. UNIT SHALL BE AHRI LISTED AND CERTIFIED (COIL ONLY CERTIFICATION IS NOT ACCEPTABLE)
17. COMPRESSORS SHALL HAVE 5 YEAR WARRANTY (PARTS ONLY)
18. CONTACT GARY GORHAM @ GORHAM/SCHAFFLER, INC. FOR INFORMATION PHONE: 1-901-345-6100

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REVISIONS		
No.	Date	Description

STATE OF LOUISIANA
GEORGE WELLS AUSTIN JR.
LICENSED PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
11-21-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Mechanical HVAC Notes, Schedules, and Legend

Phase
FOR CONSTRUCTION

Project No.	12-111
Prepared by	CDC
Checked by	GWA
Date	September 16, 2013
Released for	

Sheet No. M100

Hampton Inn and Suites

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

UNIT NO.	LOCATION	AREA SERVED	SUPPLY – FAN DATA					COOLING CAPACITY		AUX. HEATER		REFRIG. LINES		ELECTRICAL DATA			WEIGHT (LBS.)	TRANE MODELS AH/HP	NOTES
			TOTAL CFM	MIN. O.A. CFM	MIN.EXT. S.P. (IN.WG)	FAN RPM	MOTOR H.P.	TOTAL B.T.U.H	SENSIBLE B.T.U.H.	KW # STEPS	VOLT/PH	SUCTION	LIQUID	VOLT/PH	MCA	MOCP			
AHU–1 HP–1	SEE PLANS	SEE PLANS	3000	450	0.50	MFR	1.5	96,000	MFGR	26.20/2	208/3ø	MFR	MFR	208/3 208/3	32.5 21	35 35	325 250	GAM5A0B30 (2) 4TWA3048	1–9
AHU–2 HP–2	SEE PLANS	SEE PLANS	3000	450	0.50	MFR	1.5	96,000	MFGR	26.20/2	208/3ø	MFR	MFR	208/3 208/3	45.7 21	50 35	325 250	GAM5A0B30 (2) 4TWA3048	1–9
AHU–3 HP–3	SEE PLANS	SEE PLANS	2000	300	0.50	MFR	1	60,000	MFGR	10.80/1	208/3ø	MFR	MFR	208/1 208/3	34 24	35 40	175 265	GAM5A0C60 4TWA3060	1–9
AHU–4 HP–4A,4B	SEE PLANS	SEE PLANS	1000	150	0.50	MFR	1/3	30,000	MFGR	5.76/1	208/1ø	MFR	MFR	208/1 208/3	38 11	40 15	135 205	GAM5A0B30 4TWA3030	1–9
AHU–5 HP–5A,5B	SEE PLANS	SEE PLANS	2000	300	0.50	MFR	1	60,000	MFGR	10.80/1	208/3ø	MFR	MFR	208/1 208/3	34 24	35 40	175 265	GAM5A0C60 4TWA3060	1–9
AHU–6 HP–6	SEE PLANS	SEE PLANS	2000	300	0.50	MFR	1	60,000	MFGR	10.80/1	208/3ø	MFR	MFR	208/1 208/3	34 24	35 40	175 265	GAM5A0C60 4TWA3060	1–10
AHU–7 HP–7	SEE PLANS	SEE PLANS	2000	300	0.50	MFR	1	60,000	MFGR	10.80/1	208/3ø	MFR	MFR	208/1 208/3	34 24	35 40	175 265	GAM5A0C60 4TWA3060	1–9
AHU–8 HP–8	SEE PLANS	SEE PLANS	2000	300	0.50	MFR	1	60,000	MFGR	3.60/1	208/1ø	MFR	MFR	208/1 208/3	31 24	35 40	175 265	GAM5A0C60 4TWA3060	1–9
AHU–9 HP–9	SEE PLANS	SEE PLANS	2000	300	0.50	MFR	1	60,000	MFGR	10.80/1	208/3ø	MFR	MFR	208/1 208/3	34 24	35 40	175 265	GAM5A0C60 4TWA3060	1–9
AHU–10 HP–10	SEE PLANS	SEE PLANS	2000	300	0.50	MFR	1	60,000	MFGR	10.80/1	208/3ø	MFR	MFR	208/1 208/3	34 24	35 40	175 265	GAM5A0C60 4TWA3060	1–9
AHU–10 HP–10	SEE PLANS	SEE PLANS	2000	300	0.50	MFR	1	60,000	MFGR	10.80/1	208/3ø	MFR	MFR	208/1 208/3	34 24	35 40	175 265	GAM5A0C60 4TWA3060	1–9

NOTES:
1. HEAT PUMP UNITS SHALL BE MINIMUM 13.0 SEER
2. INDOOR UNIT: MCA & MOCP ARE FOR SINGLE POINT POWER CONNECTIONS
3. PROVIDE MERV–12 FILTERS AT ALL AIR HANDLING UNITS. PROVIDE MERV–7 PRE–FILTERS AT ALL UNIT THAT EXCEED 3000 CFM.
4. SECONDARY DRAIN PAN WITH FLOAT SWITCH
5. OUTDOOR AIR VOLUME MEETS THE REQUIREMENTS OF ASHRAE STANDARD 62–2004
6. PROVIDE MANUFACTURERS AUTOMATIC CHANGEOVER HEAT/COOL THERMOSTAT. PROVIDE WITH LOCKING COVER.
7. DISCONNECT SWITCHES BY E.C.
8. PLENUM RATED CONDENSATE PUMP
9. PROVIDE VIBRATION ISOLATION AND INSULATED RETURN ELBOWS FOR EACH AIR HANDLER
10. PROVIDE AIR HANDLING UNITS WITH FOIL–FACED FIBERGLASS INSULATION OR CLOSED–CELL ELASTOMERIC INSULATION.

FAN SCHEDULE

FAN EF–1
GREENHECK MODEL SP–B90 CEILING CABINET FAN

25 CFM @ 0.375" ESP; 50 WATTS; 555 FRPM; 120V/60/1ø; 2.0 SONES; WEIGHT = 11 LBS WITH:
① ② ⑥ ⑦ ⑩

SET FANS IN GUESTROOM BATHROOMS FOR CONTINUOUS OPERATION

FAN EF–2
GREENHECK MODEL SP–B90 CEILING CABINET FAN

50 CFM @ 0.375" ESP; 50 WATTS; 664 FRPM; 120V/60/1ø; 2.5 SONES; WEIGHT = 11 LBS WITH:
① ② ⑤ ⑥ ⑦ ⑩

TOILET FANS NOT IN GUESTROOMS OPERATE VIA WALL SWITCH

FAN EF–3
GREENHECK MODEL SP–A390 CEILING CABINET FAN

200 CFM @ 0.375" ESP; 135 WATTS; 967 FRPM; 120V/60/1ø; 2.1 SONES; WEIGHT = 25 LBS WITH:
① ② ⑥ ⑧ ⑩ ⑫

FAN EF–4
GREENHECK MODEL SP–A390 CEILING CABINET FAN

250 CFM @ 0.375" ESP; 135 WATTS; 967 FRPM; 120V/60/1ø; 2.1 SONES; WEIGHT = 25 LBS WITH:
① ② ⑥ ⑧ ⑩ ⑫

ACCESSORIES:

① BACKDRAFT DAMPER
② DISCONNECT SWITCH
③ ROOF CURB
④ BIRD SCREEN
⑤ WALL SWITCH BY EC.
⑥ VIBRATION ISOLATION
⑦ HOODED WALL CAP WC–6
⑧ HOODED WALL CAP WC–8
⑨ BRICK VENT
⑩ SPEED CONTROLLER
⑪ CO MONITOR CONTROL
⑫ THERMOSTAT CONTROL
⑬ TIMECLOCK CONTROL (BY MC)
⑭ FAN SHALL BE CONTROLLED VIA BUILDING CONTROL SYSTEM.
⑮ INTERLOCK WITH LIGHTS
⑯ OCCUPANCY SENSOR
⑰ ALUMINUM BIRDSCREEN
⑱ ROOF CAP MODEL RJ–6x9

NOTES:
1. WEIGHT LISTED DOES NOT INCLUDE ACCESSORIES.
2. ROOF CURB SHALL MATCH ROOF PITCH

DIFFUSER SCHEDULE

TAG	SERVICE	CFM	NECK SIZE	FRAME TYPE	PATTERN	DAMPER	MATERIAL	FINISH	MFG & MODEL No.	TYPE	NOTES
Ⓐ	SUPPLY	AS NOTED	AS NOTED	LAY–IN	4 WAY	YES	STEEL	NOTE 2	NAILOR MODEL 6500	LOUVER FACE	1
Ⓑ	RETURN	AS NOTED	AS NOTED	LAY–IN	NA	NO	STEEL	NOTE 2	NAILOR MODEL 4360	PERFORATED	1
Ⓒ	EXHAUST	AS NOTED	AS NOTED	SURFACE	NA	NO	STEEL	NOTE 2	NAILOR MODEL 61EC	EGGCRATE	1
Ⓓ	SUPPLY	AS NOTED	AS NOTED	SURFACE	4 WAY	YES	STEEL	NOTE 2	NAILOR MODEL 6550	LOUVER FACE WITH ADJUSTABLE CORE	1
Ⓔ	SUPPLY	AS NOTED	AS NOTED	SURFACE	4 WAY	YES	STEEL	NOTE 2	NAILOR MODEL 6500	12x12 PANEL – LOUVER FACE	1
Ⓕ	RETURN	AS NOTED	AS NOTED	LAY–IN	NA	NO	ALUMINUM	NOTE 2	NAILOR MODEL 51FE	EGGCRATE FILTER GRILLE	1
Ⓖ	RETURN	AS NOTED	AS NOTED	SURFACE	NA	NO	STEEL	NOTE 2	NAILOR MODEL 4360	PERFORATED	1
Ⓗ	SUPPLY	AS NOTED	AS NOTED	SURFACE	NA	YES	STEEL	NOTE 2	NAILOR MODEL 5010	LINEAR SLOT DIFFUSER (1" SLOTS)	1, 3, 4
Ⓘ	OA SUPPLY	AS NOTED	AS NOTED	SURFACE	NA	NO	ALUMINUM	NOTE 2	AMERICAN ALDES MODEL CSR–R–II	CONSTANT SUPPLY GRILLE FOR ROUND DUCT ATTACHMENT	1
Ⓙ	SUPPLY	AS NOTED	AS NOTED	SURFACE	4 WAY	YES	STEEL	NOTE 2	NAILOR MODEL 6500	LOUVER FACE	1
Ⓚ	SUPPLY	AS NOTED	AS NOTED	SURFACE	NA	NO	ALUMINIUM	NOTE 2	NAILOR MODEL 5310I	LINEAR SLOT DIFFUSER 60" LONG, 3 SLOTS (1" SLOTS)	1
Ⓛ	SUPPLY	AS NOTED	AS NOTED	SURFACE	NA	NO	ALUMINIUM	NOTE 2	NAILOR MODEL 51DV	DOUBLE DEFLECTION GRILLE	1
Ⓜ	RETURN	AS NOTED	AS NOTED	SURFACE	NA	NO	ALUMINIUM	NOTE 2	NAILOR MODEL 5155H	FIXED DEFLECTION RETURN GRILLE	1
⊥	TRANSFER	18x18	NA	SURFACE	NA	NO	STEEL	NOTE 2	NAILOR MODEL 61DGD	SIGHT PROOF DOOR RETURN AIR GRILLE	1

NOTES:
1. DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS: DIFFUSER OR NECK SIZE / AIR QUANTITY — 12x12 / 333 (C) — DIFFUSER TYPE AS NOTED ABOVE
2. COLOR AS DIRECTED BY ARCHITECT
3. PROVIDE NUMBER OF 1" SLOTS TO ACHIEVE 50 CFM/FOOT
4. PROVIDE WITH LINED PLENUM FROM FACTORY

DUCTLESS SPLIT-SYSTEM EQUIPMENT

2.0–TON UNIT

DAHU–1 WALL–MOUNTED AIR HANDLING UNIT
MITSUBISHI MODEL PKA–A24KA4 (INDOOR AIR HANDLING UNIT)

DCU–1 MITSUBISHI MODEL PUY–A24NHA (OUTDOOR CONDENSING UNIT)

2 TON NOMINAL COOLING–ONLY UNIT, 700 CFM (HI WITH WET COIL); RATED COOLING=24,000 BTUH @80/67'F INDOOR AND 95'F/75'F OUTDOOR, MINIMUM CAPACITY=12,000 BTUH, TOTAL INPUT=2,250 W, SEER=17.0, POWER SUPPLY 208/230V/1/60, CONTROL VOLTAGE = 24V.

INDOOR UNIT: WALL MOUNTED UNIT, MCA=1.0, FLA=0.36, PROVIDE WITH WALL–MOUNT, WIRED THERMOSTAT. WEIGHT 46 LBS.

OUTDOOR UNIT: GROUND–MOUNTED UNIT, MCA=18.0, MOCP=30. WEIGHT 163 LBS.

R–410A REFRIGERANT, 100 FOOT MAX LINE LENGTH. PROVIDE MICROFLOAT SWITCH IN CONDENSATE DRAIN PAN FOR UNIT SHUTDOWN AT FAILURE OF PRIMARY CONDENSATE DRAIN.

1.5–TON UNIT

DAHU–2 WALL–MOUNTED AIR HANDLING UNIT
MITSUBISHI MODEL PKA–A18GAL (INDOOR AIR HANDLING UNIT)

DCU–2 MITSUBISHI MODEL PUY–A18NHA (OUTDOOR CONDENSING UNIT)

1.5 TON NOMINAL COOLING–ONLY UNIT, 380 CFM (HI WITH WET COIL); RATED COOLING=18,000 BTUH @80/67'F INDOOR AND 95'F/75'F OUTDOOR, MINIMUM CAPACITY=8000 BTUH, TOTAL INPUT=2240W, SEER=14.1, POWER SUPPLY 208/230V/1/60, CONTROL VOLTAGE = 24V.

INDOOR UNIT: WALL MOUNTED UNIT, MCA=1.0, FLA=0.33, PROVIDE WITH WALL–MOUNT THERMOSTAT. WEIGHT 35 LBS.

OUTDOOR UNIT: ROOF–MOUNTED UNIT, MCA=13.0, MOCP=20, FAN MOTOR FLA=0.35, FAN MOTOR OUTPUT=40W. WEIGHT 97 LBS.

R–410A REFRIGERANT, 100 FOOT MAX LINE LENGTH. PROVIDE MICROFLOAT SWITCH IN CONDENSATE DRAIN PAN FOR UNIT SHUTDOWN AT FAILURE OF PRIMARY CONDENSATE DRAIN.

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No.	Date	Description

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IN
MECHANICAL ENGINEERING
11-21-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Mechanical HVAC Schedules

Phase
FOR CONSTRUCTION

Project No. 12-111
Prepared by CDC
Checked by GWA
Date September 16, 2013

Sheet No. M101

Released for

Hampton Inn and Suites

PACKAGED TERMINAL HEAT PUMP UNIT SCHEDULE

UNIT NO.	LOCATION	AREA SERVED	SUPPLY – FAN DATA: LOW CFM	HI CFM	VENT FULL OPEN	VENT PART OPEN	SET O.A. CFM TO	COOLING CAPACITY: REFRIG TYPE	TOTAL B.T.U.H	EER BTU/WATT	DEHUMID PINTS/HR	HEATING CAPACITY: TOTAL B.T.U.H	COP	POWER/ RATINGS: POWER FACTOR	S HEAT RATIO	COOLING WATTS	COOLING AMPS	HEATING WATTS	HEATING AMPS	WEIGHT (LBS.)	UNIT POWER	GE MODELS NUMBER	NOTES
PTU–1	SEE PLANS	SEE PLANS	212	360	70	45	0	410A	9,200	12.7	2.7	8,100	3.8	92%	75%	725	3.8	630	3.3	105	208V/1PH	AZ61H09D	1–9
PTU–2	SEE PLANS	SEE PLANS	284	370	75	45	0	410A	11,600	12.1	3.5	10,400	3.7	92%	70%	960	5.0	835	4.5	105	208V/1PH	AZ61H12D	1–9

NOTES:
1. PROVIDE WITH LINE CORD CONNECTION KIT
2. PROVIDE WALL SLEEVE
3. PROVIDE OUTSIDE GRILLE TYPE PER DIRECTION OF ARCHITECT
4. PROVIDE OUTSIDE GRILLE COLOR PER DIRECTION OF ARCHITECT
5. PROVIDE WITH REMOTE THERMOSTAT
6. PROVIDE OTHER ACCESSORIES AS NEEDED FOR A COMPLETE INSTALLATION WITH PROPER UNIT FUNCTIONS

LOUVER SCHEDULE

L–1 – RELIEF LOUVER
RUSKIN MODEL ELF375DX – 24" WIDE x 18" TALL

ELF375DX IS A STATIONARY LOUVER, EXTRUDED ALUMINUM CONTUCTION. PROVIDE LOUVER TO MATCH WALL CONSTRUCTION TYPE.

650 CFM, 1.33 SF (50%) FREE AREA, 490 FPM RELIEF VELOCITY, 0.03" PRESSURE DROP.

PROVIDE L–3 LOUVER WITH: (1) (2) (3) (4)

L–2 – EXHAUST LOUVER
RUSKIN MODEL ELF375DX – 18" WIDE x 12" TALL

ELF375DX IS A STATIONARY LOUVER, EXTRUDED ALUMINUM CONTUCTION. PROVIDE LOUVER TO MATCH WALL CONSTRUCTION TYPE.

250 CFM (MAX), 0.41 SF (41% FREE AREA LOUVER), 610 FPM EXHAUST VELOCITY, 0.05" PRESSURE DROP.

PROVIDE LOUVER L–2 WITH: (1) (2) (3)

L–3 – EXHAUST LOUVER
RUSKIN MODEL ELF375DX – 12" WIDE x 12" TALL

ELF375DX IS A STATIONARY LOUVER, EXTRUDED ALUMINUM CONTUCTION. PROVIDE LOUVER TO MATCH WALL CONSTRUCTION TYPE.

50 CFM, 0.26 SF (26% FREE AREA LOUVER), 192 FPM EXHAUST VELOCITY, 0.06" PRESSURE DROP.

PROVIDE LOUVER L–3 WITH: (1) (2) (3)

ACCESSORIES:
(1) INSECT SCREEN (2) KYNAR FINISH (3) COLOR AS DIRECTED BY ARCHITECT (4) BACKDRAFT DAMPER

SWIMMING POOL UNIT - SPLIT SYSTEM

DRY-O-TRON by Dectron — Load Summary and DRY-O-TRON® Selection

NORMAL MODE SUMMARY

Page 1 of 1
September 11, 2013

Project Information

Project Name: Hampton Inn & Suites - Monroe, LA
Location: Monroe, LA

			Summer	Winter
Altitude	79 ft	Outdoor Dry Bulb	96.0 °F	22.0 °F
Active Hours	14 hrs	Outdoor Wet Bulb	78.0 °F	18.0 °F

	Dry Bulb	Heat Index		Occupied	Unoccupied
Room Temperature	82 °F	82.77 °F	Relative Humidity Range	50 %	50 %

Refrigerant

R407C

Load Sources	Load Active	Load Inactive	Surface	Activity Factor	Water Temp	Primary Water Heater
Hotel	29.4	18.4	600	0.80	84	Dry-O-Tron
Outdoor Air	9.2	---	449 CFM			
Spectators	0.0	---	0@0.1550			
Total Dehumidification Load Lb/h	38.6	18.4	Summer Design Day Runtime		77 %	

DRY-O-TRON® SELECTION:

1 x DS-042 LBX Indoor Horizontal Conventional Pool Dehumidification & A/C Unit(s)
Unit(s) complete with:
- 3300 CFM @ 1.00" TOTAL ESP 1 x Forward Curve DWDI supply fan(s) (1 x 3 HP ODP motor)
- 2 scroll compressor(s) / 2 circuit(s) / 2 stage(s)
- 107.9 MBH Nominal Capacity
- Refrigerant R-407c
- 39.4 lbs/Hr Moisture Removal Capacity @ 82 °F @ 50% RH
- 68.3 MBH Gross Sensible Cooling Cap. @ 82 °F @ 50% RH
- Refrigerant Hot-Gas 'main' pool water heat exchanger
- Full Sized Refrigerant Hot-Gas air reheat coil
- Electric Heater (Unit Mounted) (38 kW) - 2 Stage Single Point Power
- Remote (Split) Outdoor Air Cooled Air Conditionning (1 x KVG082)
- Outdoor Air Cooled Condenser Distance : 75 / 75 feet
- 449 CFM outdoor air opening (with Damper, filters, actuator and 7-day timeclock)
- ½" Insulation
- Drain Pan Coating: Standard(Resin)
- Blower Coating: Standard (Epoxy)
- Enclosure Coating: Powder
- Coil Coating: Standard: Fins = HyPoxy + End sheets = galvanized
- Supervisaire Microprocessor
- 2 Year Standard Coil Warranty
- 5 Year Extended Compressor Warranty
- 2 Year Standard Major Component Warranty
- Unit Mounted Sensors:
  - -Return Air Temperature (Standard)
  - -Return Air Humidity (Standard)
  - -Pool Water Temperature (Standard)
- Unit Mounted (Operator Panel #1)
- Filtration Package :
  - 2" MERV-8 Extended Surface, Pleated Filter with Antimicrobial

Dry-O-Tron will heat a maximum of two (2) pools, selected for the highest load

210000889-0

DRY-O-TRON by Dectron — Dehumidifier Unit Schedule

9/11/2013

Job Information

Job Name: Hampton Inn & Suites - Monroe, LA (Monroe, LA)
Description: — Room Volume: 13,500 ft³
Model Number: DS-042 (Conventional) — Cabinet Size: 042 LBX
Nomenclature: DSH042ZAZX13337Q3452ZLZDZZZ188

Supply Fan(s)

Blower Model	CFM	Type	Pole	Motor Type	Nom. HP	Act. BHP	FLA	VFD	VFD Amp.
ATLI 12 - 9 T2	3,300	FC DWDI		ODP	3.00	2.06	7.80	No	0.00
					89.50	% Eff			

Unit Supply

Air Changes Per Unit	Air Changes Total	CFM	E.S.P SA	E.S.P RA	E.S.P Total
14.70	14.70	3,300	0.80	0.20	1.00

ASHRAE Recommends 4 to 8 air changes.

Exhaust Fan #1 (Minimum Exhaust)

Total CFM	Mounting Location	E.S.P EA	E.S.P RA	E.S.P Total	OA CFM
494	Remote*	0.00	0.00	0.00	449

* = Remote Fan By Others. OA must be preheated to 35°F during normal mode.

Return Air Filtration Package

Description	Dimensions	Quantity
2" MERV-8 Extended Surface, Pleated Filter with Antimicrobial	20" x 20" x 2"	4

Outdoor Air Filters

Description	Dimensions	Quantity
Standard 2" MERV-2 permanent washable and reusable	N/A	N/A

Compressor(s)

Refrigerant: R-407C — # of Compressor: 2 — Stages: 2 — # of Independent Refrigerant Circuits: 2

Compressor Number	LRA	RLA	kW	Capacity (btu/h)	Compressor Type
Compressor #1	91	14.7	3.3	54,000	scroll
Compressor #2	91	14.7	3.3	54,000	scroll

* Please validate all information with DECTRON engineering — 1 — 210000889-0-210-0

DRY-O-TRON by Dectron — Dehumidifier Unit Schedule

9/11/2013

Job Information

Job Name: Hampton Inn & Suites - Monroe, LA (Monroe, LA)
Description: — Room Volume: 13,500 ft³
Model Number: DS-042 (Conventional) — Cabinet Size: 042 LBX
Nomenclature: DSH042ZAZX13337Q3452ZLZDZZZ188

Refrigerant Coil Data

Space Temperature (°F): 82.0
Full Reheat Coil Capacity (btu/h): 127,158

	Minimum RH	Maximum RH	Selected RH
Relative Humidity (%RH)	50	60	50
Moisture Removal Capacity (lb/h)	39.40	48.91	39.40
Evaporator Coil Sensible Capacity (btu/h)	68,280	59,280	68,280
Net Sensible Capacity Including Outside Air Load (btu/h)	49,645	40,645	49,645
Net Sensible Capacity Not Including Outside Air Load (btu/h)	56,434	47,434	56,434

Pool Water Heater Condenser / Unit Mounted

Heater	Type	Capacity (btu/h) Per Unit	GPM	Connection Information(s) Type	Size	Max PD PSIG	Max PD FT
#1	CuNi Vented Coax.	89,033	12.00	CPVC Schedule 80 Connections	1 1/2	6.00	13.86

Pool Water Auxiliary Heater

Auxiliary	Type	Capacity (btu/h) Per Unit	Location
#1		0	Remote By Others

Space Heating Coil Electric Heater

Location: Unit Mounted
Capacity (btu/h): 129,700
kW: 38.0
Power Supply: Single Point
Control / Stages: 2 Stages
Temperature Rise per Stage: 18.2

	Normal Mode	Dectron Purge®
Entering Air Temp. (°F)	73.8	
Leaving Air Temp. (°F)	110.2	

Leaving Air Temperatures (Not Including Outside Air)

Dehumidification Mode (°F)	100.7	Air Conditioning Mode (°F)	66.7
Pool Water Heating Mode (°F)	82.0	Recirculation Mode (°F)	84.1

Electrical Data

	Unit Rating
MCA (Amps)	161
MOP (Amps)	175
Nominal unit kW	46
EER (Energy Efficiency Ratio)	13.24
Voltage	230
Phase	3
Hertz	60

* Please validate all information with DECTRON engineering — 2 — 210000889-0-210-0

DRY-O-TRON by Dectron — Dehumidifier Unit Schedule

9/11/2013

Job Information

Job Name: Hampton Inn & Suites - Monroe, LA (Monroe, LA)
Description: — Room Volume: 13,500 ft³
Model Number: DS-042 (Conventional) — Cabinet Size: 042 LBX
Nomenclature: DSH042ZAZX13337Q3452ZLZDZZZ188

Air Cooled Condenser #1 (Stages #1 & #2)

Model: KVG082
Location: Remote (Split)
Tag:
Air Flow: Vertical

Ambient Temp.	100 °F	Voltage	230/3/60
Condensing Temp	120 °F	Power per Motor	1.4/0.95 kW
TD	20 °F	FLA per Motor	6.20
Condenser Capacity	210,800 Btu/hr	RPM per Motor	550/780 RPM rpm
Fan Arrangement	2 x 1	Total MCA	14.00
Total Condenser Weight	1,130.00 lbs	Total Fuse/MOP	15
		Refrigerant Type	R-407C

Control Panel: P52 - Contactor(s) without control, twin speed Ziehl-abegg
Control Panel Voltage: 24/1/60
Control Panel Options: N - None

Dry-O-Tron refrigerant circuits capacity, charge and line sizes summary :

Circuits Number	Capacity (btu/hr)	Factory	Field	System	Distance	Liquid Riser	Gas Riser	Liquid	Hot Gas
Circuit #1 THR	63,579	20.39	44.69	65.08	75	0	0	5/8"	7/8"
Circuit #2 THR	63,579	20.39	44.69	65.08	75	0	0	5/8"	7/8"
Total THR	127,158								

Line Sizes must be same size as UNIT Connections and will be size adjusted at the point of connection to the Outdoor Air Cooled Condenser
+/- 10% Refer to unit nameplate for confirmation.

* Please validate all information with DECTRON engineering — 3 — 210000889-0-210-0

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REVISIONS		
No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN, JR.
License No. 33754
PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
11-21-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Mechanical HVAC Schedules

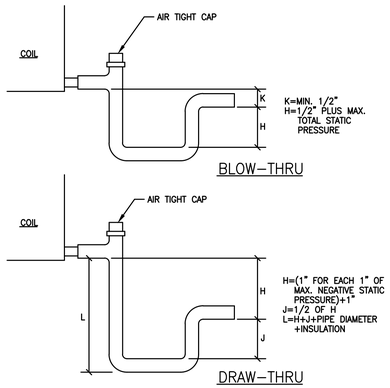
Phase
FOR CONSTRUCTION

Project No. 12-111
Prepared by CDC
Checked by GWA
Date September 16, 2013

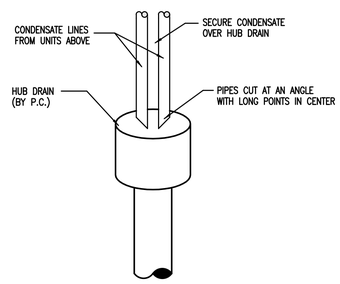
Sheet No. M102

Released for

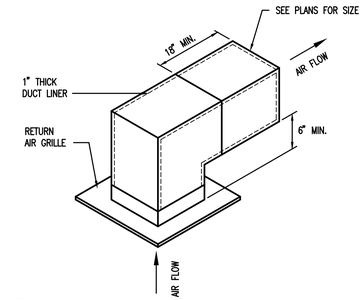
Hampton Inn and Suites



1	CONDENSATE TRAP DETAIL
M200	NO SCALE

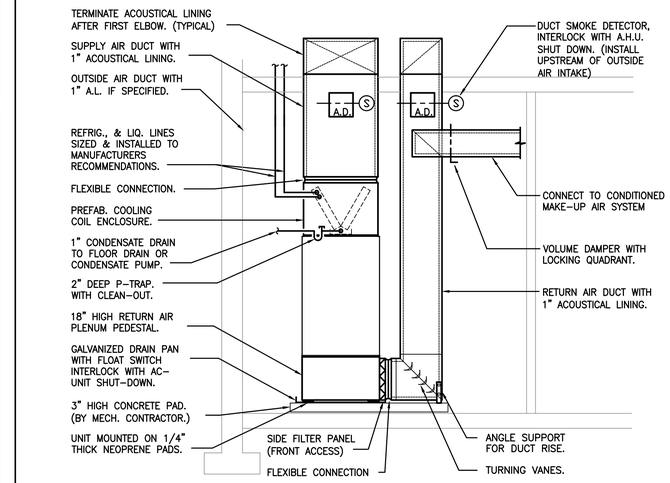


2	CONDENSATE TO HUB DRAIN DETAIL
M200	NO SCALE



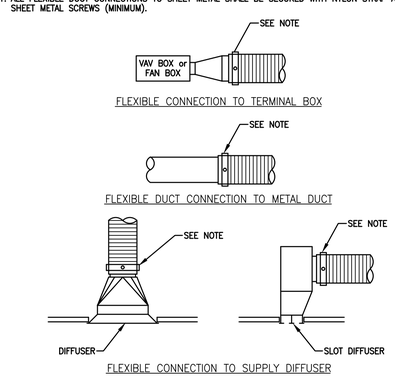
NOTE:
THIS DETAIL IS TYPICAL FOR ALL RETURN AIR DIFFUSERS IN OFFICES, CLASSROOMS, ETC., WITH SOUND BATTS IN WALLS, ON CEILING, AND WHERE WALLS EXTEND UP TO STRUCTURE. EXTEND SOUND TRAP LEG THRU WALLS AS REQ'D. TO INSURE THAT ALL ROOMS HAVE RETURN AIR CAPABILITIES. COORD. W/ARCH DWGS.

3	SOUND TRAP DETAIL
M200	NO SCALE

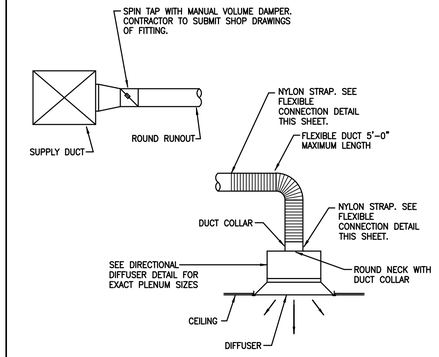


7	VERTICAL AHU w/ DX COOLING COIL
M200	NO SCALE

NOTE:
1. ALL FLEXIBLE DUCT CONNECTIONS TO SHEET METAL SHALL BE SECURED WITH NYLON STRAP AND 2 SHEET METAL SCREWS (MINIMUM).

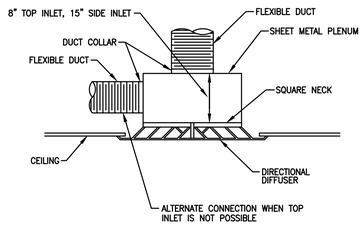


4	FLEXIBLE CONNECTION DETAIL
M200	NO SCALE



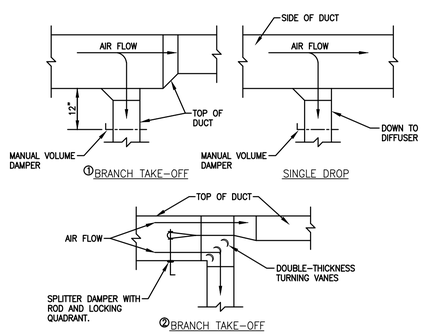
5	SPIN TAP TO SQUARE NECK DIFFUSER
M200	NO SCALE

NOTES:
1. PROVIDE AN AUXILIARY PANEL WHEN USED IN A T–BAR LAY–IN CEILING.

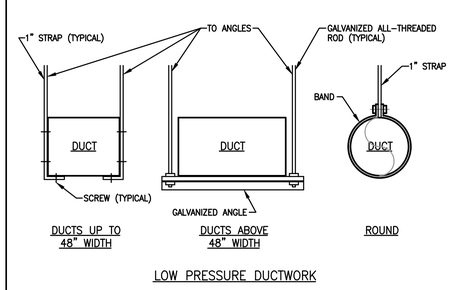


6	DIRECTIONAL DIFFUSER
M200	NO SCALE

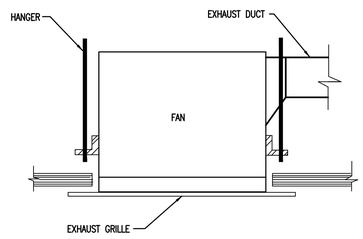
NOTES:
1. USE BRANCH TAKE–OFF ① WHEN MAIN AND BRANCH DUCTS ARE DIFFERENT DEPTHS.
2. USE BRANCH TAKE–OFF ② WHEN MAIN AND BRANCH DUCTS ARE SAME DEPTHS.



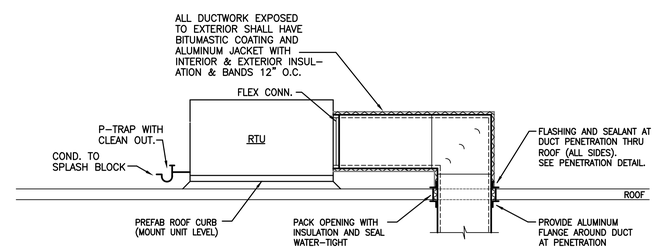
8	DUCTWORK DETAILS
M200	NO SCALE



9	DUCTWORK HANGER DETAILS
M200	NO SCALE



10	EXHAUST FAN DETAIL
M200	NO SCALE



11	ROOF TOP MOUNTED UNIT – HORIZONTAL DISCHARGE
M200	NO SCALE

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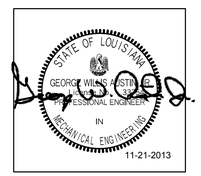

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Mechanical HVAC Details

Phase
FOR CONSTRUCTION

Project No.	12-111
Prepared by	CDC
Checked by	GWA
Date	September 16, 2013

Sheet No. M200

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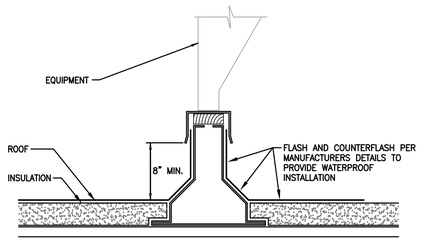
Hampton Inn and Suites

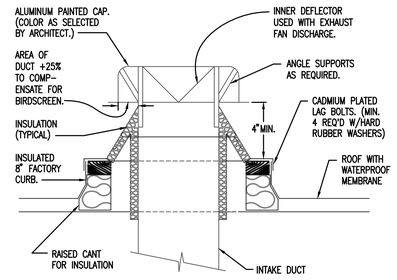
NOTES:
1. PROVIDE PIPE SUPPORTS AT 10'-0" ON CENTER.
2. PROVIDE ADDITIONAL SUPPORTS AT EQUIPMENT TO PREVENT THE WEIGHT OF PIPING BEING PLACED ON THE EQUIPMENT.



PIPE CURB AS MFG. BY THYCURB CO., PATE CO., OR EQUAL.

MC SHALL PROVIDE CURB TYPE COMPATIBLE WITH ROOF STRUCTURE TYPE.

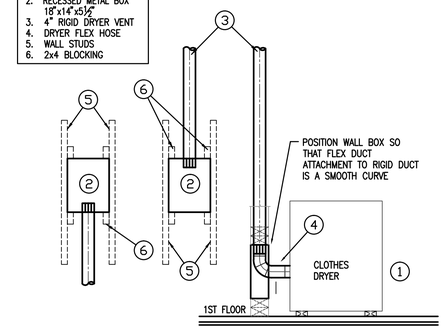
1	EQUIPMENT SUPPORT DETAIL
M201	NO SCALE



NOTES:
1. PROVIDE EQUIPMENT CURB TO MATCH ROOF SLOPE.
2. THIS DETAIL IS TYPICAL FOR ALL EXH. & O.A. INTAKE DUCTS

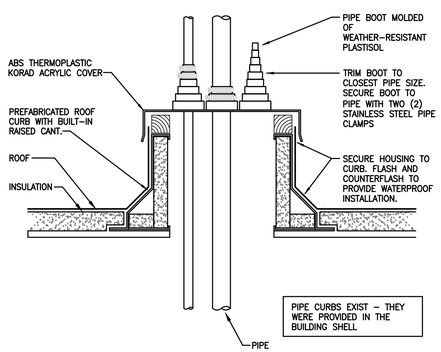
2	ROOF MOUNT FRESH AIR INTAKE
M201	NO SCALE

1. CLOTHES DRYER
2. RECESSED METAL BOX 18"x14"x5½"
3. 4" RIGID DRYER VENT
4. DRYER FLEX HOSE
5. WALL STUDS
6. 2x4 BLOCKING



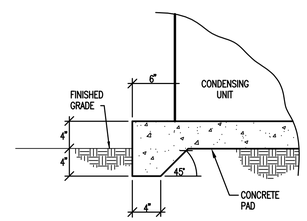
THIS DETAIL IS FOR THE DRYERS IN THE GUEST LANDRY

3	RECESSED METAL BOX/DRYER EXHAUST
M201	NO SCALE

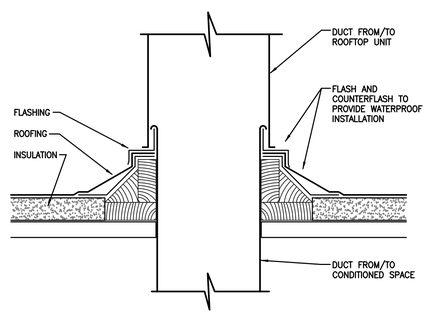


PIPE CURBS EXIST – THEY WERE PROVIDED IN THE BUILDING SHELL

4	PIPE PORT DETAIL
M201	NO SCALE



5	OUTDOOR UNIT PAD DETAIL
M201	NO SCALE



MC SHALL PROVIDE FLASHING TYPE COMPATIBLE WITH ROOF STRUCTURE TYPE

6	DUCT PENETRATION THRU ROOF DETAIL
M201	NO SCALE

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REVISIONS		
No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS ASHTON, JR.
REGISTERED PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
11-21-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

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Mechanical HVAC Details

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Project No.	12-111
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Sheet No. M201

Hampton Inn and Suites

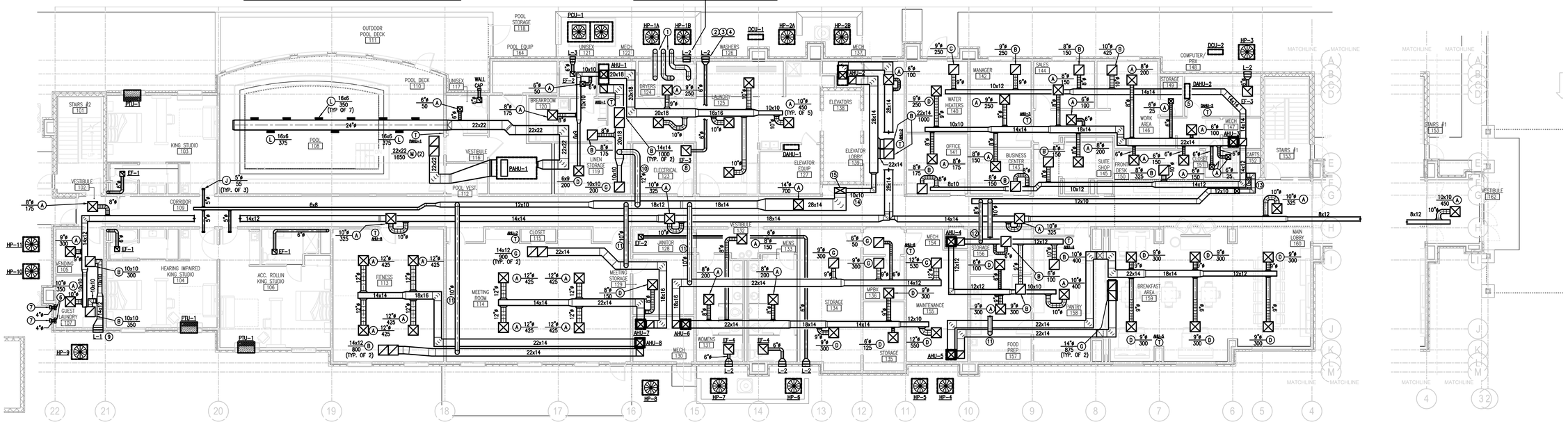
POOL HVAC NOTES:
ALL DUCTS, DIFFUSERS, HANGERS, ETC FOR THE POOL HVAC SYSTEM SHALL BE ALUMINUM.

LINED DUCT IS PROHIBITED. PROVIDE EXTERNAL DUCT INSULATION FOR DUCT LOCATED OUTSIDE OF THE POOL AREA, SUCH AS DUCT ABOVE CEILINGS.

DIRECT AIR FLOWS FROM SUPPLY AIR GRILLES TO WASH THE GLASS SURFACES OF THE POOL ENCLOSURE, AND TO AVOID STRUCTURE AT THE CEILING.

PROVIDE FILER MEDIA THAT IS RESISTANT TO MOISTURE DEGRADATION.

WALL OPENINGS FOR THE TWO HOTEL DRYERS
DRYER GAS INPUT = 600,000 BTUH TOTAL FOR TWO DRYERS
REQUIRED OPENING IS 1 SQ. IN. PER 4000 BTUH
600,000 / 4,000 = 150 SQ. IN.
150 SQ. IN. / 144 = 1.04 SQ. FT.
EACH DRYER REQUIRES 1.00 SQ. FT. FOR MAKEUP AIR
REQUIRED AREA FOR EACH EACH INTAKE IS 2.04 SQ. FT.
FREE AREA OF L-2 LOUVER IS 2.51 SQ. FT.



DUCT INSULATION
INTERNAL INSULATION OF SUPPLY, RETURN, AND OUTSIDE AIR DUCTS SHALL BE CLOSED-CELL ELASTOMERIC TYPE. FIBERGLASS DUCT LINER IS NOT ALLOWED.

1 M300 FIRST FLOOR PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

KEYED NOTES

KEY	NOTE
1	ROUTE DRYER EXHAUST, FULL SIZE, OVER TO EXTERIOR WALL AND TURN DOWN WITH A 90° ELBOW. OPENING OF THE ELBOW SHOULD BE 18" MINIMUM ABOVE THE GROUND. (TYPICAL FOR THREE DRYERS)
2	PROVIDE TWO LOUVERED OPENINGS, ONE JUST ABOVE THE OTHER IN THE EXTERIOR WALL. COORDINATE COLOR WITH ARCHITECT.
3	THE UPPER LOUVER SHALL BE POSITIONED SO THAT THE TOP OF THE OPENING IS WITHIN 12" OF THE CEILING WHERE THE DRYERS ARE LOCATED.
4	EXTEND A FULL SIZED DUCT FROM THE LOWER LOUVER INTO THE DRYER ROOM. TURN DOWN WITH A 24x14 DUCT AND ROUTE THE 24x14 DUCT TO 12" ABOVE FINISHED FLOOR FOR COMBUSTION AIR AND EXHAUST AIR MAKEUP.
5	MOUNT DUCTLESS AIR HANDLING UNIT FOR PBX ROOM HIGH ON THE WALL (12" BELOW THE CEILING). ROUTE CONDENSATE TO SPILL INTO A FLOOR DRAIN IN THE MECHANICAL ROOM.
6	RECESSED METAL BOX FOR DRYER EXHAUST CONNECTION. SEE DETAIL THIS SHEET.
7	ROUTE 4" CLOTHES DRYER EXHAUST TO EXTERIOR WALL AND TERMINATE WITH LOUVER STYLE DRYER VENT. SEAL OPENING IN WALL AIR-TIGHT & WEATHER-TIGHT. COLOR OF LOUVER VENT BY ARCHITECT. (TYPICAL OF TWO)
8	COORDINATE EXACT LOCATION OF THE EXHAUST FAN FOR THE ELECTRICAL ROOM WITH THE ELECTRICAL CONTRACTOR TO VOID ROUTING DUCTWORK OVER ELECTRICAL PANELS.
9	RELIEF AIR FROM 105--VENDING AND 107--LAUNDRY -- THIS AIR IS NOT RETURNED TO THE AIR HANDLING UNIT.
10	12"ø FRESH AIR DUCT WITH BALANCING DAMPER TO SERVE AIR HANDLING UNIT.
11	10"ø FRESH AIR DUCT WITH BALANCING DAMPER TO SERVE AIR HANDLING UNIT.
12	8"ø FRESH AIR DUCT WITH BALANCING DAMPER TO SERVE AIR HANDLING UNIT.
13	10"x8" FRESH AIR DUCT WITH BALANCING DAMPER TO SERVE AIR HANDLER.
14	10"x10" FRESH AIR DUCT WITH BALANCING DAMPER TO SERVE AIR HANDLER.
15	28x14 FRESH AIR DUCT WITH BALANCING DAMPER DOWN FROM ABOVE.

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REVISIONS		
No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS SHULTZ III
PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
11-21-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Mechanical HVAC
First Floor Plan

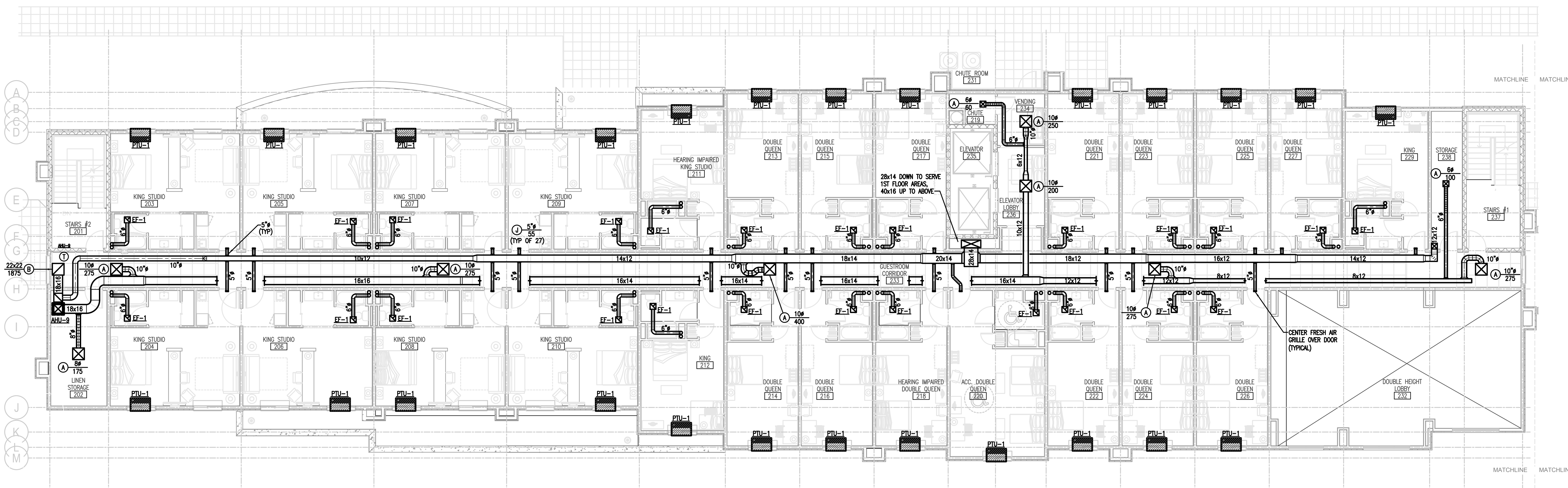
Phase
FOR CONSTRUCTION

Project No.	12-111
Prepared by	CDC
Checked by	GWA
Date	September 16, 2013

Sheet No.
M300

Released for

Hampton Inn and Suites



1 SECOND FLOOR PLAN - MECHANICAL
M301 SCALE: 1/8" = 1'-0"

SET EXHAUST FANS IN GUEST ROOM BATHROOMS TO RUN AT 25 CFM CONTINUOUSLY

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REVISIONS

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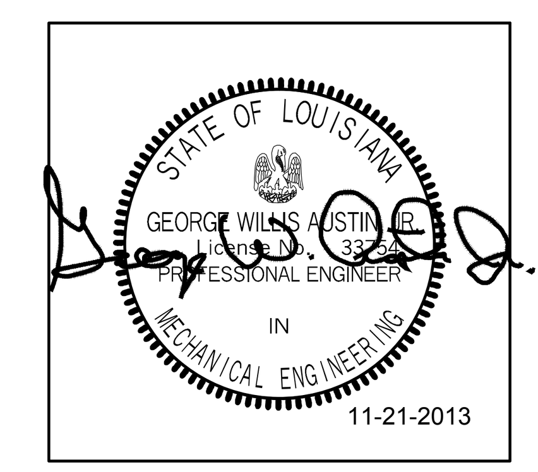

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Mechanical HVAC
Second Floor Plan

Phase
FOR CONSTRUCTION

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Hampton Inn and Suites

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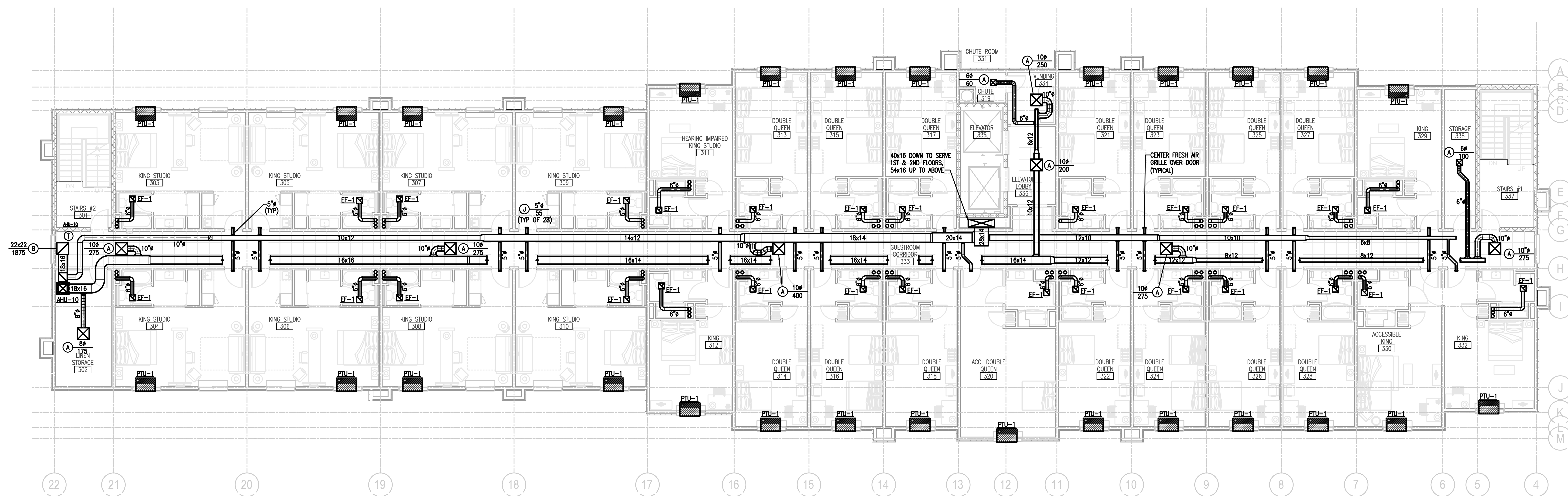

1 THIRD FLOOR PLAN - MECHANICAL
M302 SCALE: 1/8" = 1'-0"

SET EXHAUST FANS IN GUEST ROOM BATHROOMS TO RUN AT 25 CFM CONTINUOUSLY

REVISIONS		
No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN JR.
PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
11-21-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Mechanical HVAC
Third Floor Plan

Phase
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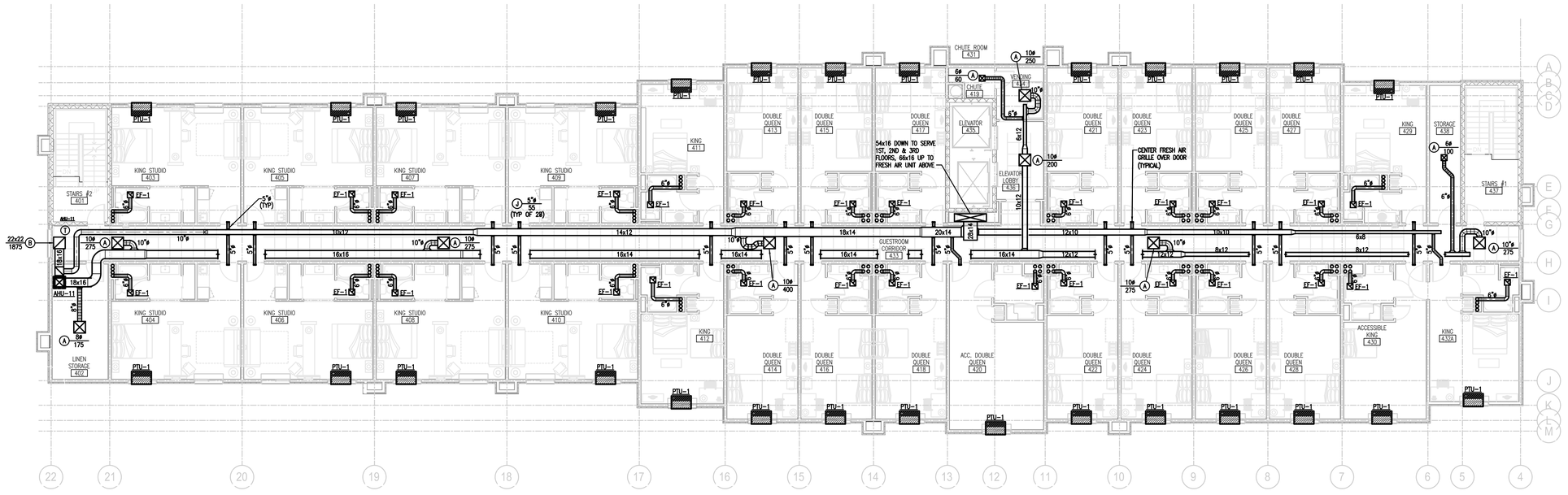
Hampton Inn and Suites



1 M303 FOURTH FLOOR PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

SET EXHAUST FANS IN GUEST ROOM BATHROOMS TO RUN AT 25 CFM CONTINUOUSLY

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REVISIONS		
No.	Date	Description

STATE OF LOUISIANA
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PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
11-21-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Mechanical HVAC
Fourth Floor Plan

Phase
FOR CONSTRUCTION

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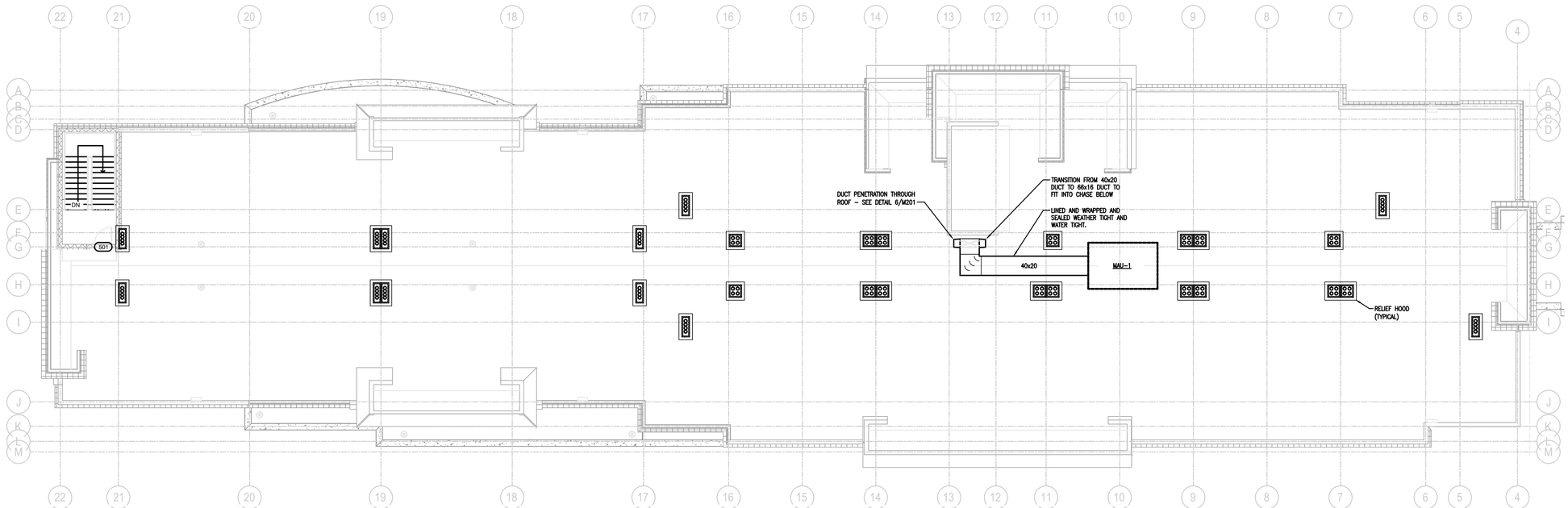

1 M304 ROOF PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

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REVISIONS		
No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN, III
LICENSED PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
11-21-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Mechanical HVAC
Roof Plan

Phase
FOR CONSTRUCTION

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Hampton Inn and Suites

PLUMBING MATERIALS AND NOTES

DOMESTIC WATER PIPING:

1. DOMESTIC WATER PIPING AND JOINTS BELOW GRADE: PROVIDE TYPE 'K' SOFT ANNEALED SEAMLESS COPPER TUBING (ASTM B 88) WITH NO JOINTS FOR PIPING 2½" AND SMALLER. PROVIDE DUCTILE IRON PIPE AND FITTINGS (AWWA C151, AWWA C110) WITH RUBBER GASKET JOINTS AND RODS (AWWA C111) PIPING 3" AND LARGER.
2. DOMESTIC WATER PIPING AND JOINTS ABOVE GRADE: PROVIDE TYPE 'L' HARD DRAWN SEAMLESS COPPER TUBING (ASTM B 88) AND CAST COPPER ALLOY FITTINGS (ASME B16.18). JOINTS 1" AND SMALLER SHALL BE LEAD FREE 95-5 TIN/SILVER SOLDER JOINTS (ASTM B 32), JOINTS 1¼" AND LARGER SHALL BE BCUP SILVER/PHOSPHORUS/COPPER BRAZED JOINTS (AWS A5.8) OR PROVIDE COPPER PIPE AND FITTINGS AS SPECIFIED ABOVE EXCEPT WITH GROOVED ENDS (ASTM B 88, ASME B16.18) AND JOINTS UTILIZING GROOVED MECHANICAL COUPLINGS MEETING (ASTM F1476).
3. STERILIZE THE DOMESTIC WATER SYSTEM IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
4. INSULATE DOMESTIC WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH GLASS FIBER INSULATION HAVING A VAPOR BARRIER AND JACKET. PIPE INSULATION SHALL HAVE A CONDUCTIVITY NOT EXCEEDING 0.27 BTUH x SQ. FT. FOLLOW SCHEDULE BELOW:

SERVICE TYPE	PIPE SIZES	INSULATION THICKNESS
DOMESTIC HOT WATER & CIRCULATION	½" - 1¼"	1"
DOMESTIC HOT WATER & CIRCULATION	1½" - 4"	1½"
DOMESTIC COLD WATER	½" - 1¼"	½"
DOMESTIC COLD WATER	1½" - 4"	1"

5. DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD AND SHALL BE PLENUM RATED.
6. PROVIDE FULL PORT, BALL TYPE SHUT-OFF VALVES AND INSTALL IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.
7. PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON TRAPEZE HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH DISSIMILAR OTHER METALS.
8. PROTECT COPPER PIPING AGAINST CONTACT WITH ALL MASONRY. WHERE COPPER IS SLEEVED THROUGH MASONRY, PROVIDE COPPER OR RED BRASS SLEEVES. WHERE COPPER MUST BE CONCEALED IN OR AGAINST MASONRY PARTITIONS, PROVIDE A HEAVY COATING OF ASPHALTIC ENAMEL ON THE COPPER PIPING AND 15# ASPHALT SATURATED FELT BETWEEN THE PIPING AND THE MASONRY PARTITION.
9. DOMESTIC WATER PIPING SHALL BE SLOPED FOR DRAINAGE WITH DRAIN VALVES INSTALLED AT LOW POINTS.
10. BALANCE THE DOMESTIC HOT WATER CIRCULATION SYSTEM TO THE PERFORMANCE SPECIFICATIONS INDICATED ON THE PLANS AND PROVIDE THE ENGINEER WITH THREE COPIES OF A COMPLETE TEST AND BALANCE REPORT. THE REPORT IS TO BE ISSUED A MINIMUM OF TWO WEEKS PRIOR TO PROJECT COMPLETION. THE TEST AND BALANCE REPORT WILL BE SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER. ANY ADDITIONAL TESTING, ADJUSTING AND BALANCING REQUIRED (AT ENGINEER'S REQUEST) AFTER REVIEW OF THE INITIAL REPORT SHALL BE PROVIDED AT NO ADDITIONAL COST. TEST AND BALANCE REPORT TO BE COMPLETED BY AN INDEPENDENT, CERTIFIED TEST AND BALANCE CONTRACTOR.

SANITARY WASTE / VENT AND STORM PIPING:

1. SANITARY WASTE AND STORM DRAIN PIPING BELOW GRADE: PROVIDE SERVICE WEIGHT CAST IRON HUB AND SPIGOT PIPE (ASTM A 74) WITH COMPRESSION JOINTS (CISPI HSN) AND NEOPRENE GASKETS (ASTM C 564) OR NO-HUB PIPE AND FITTINGS (CISPI 301) WITH NEOPRENE GASKET/STAINLESS STEEL CLAMP JOINTS (CISPI 310) OR PROVIDE SCHEDULE 40 PVC PIPE AND SOCKET FITTINGS (ASTM D 2665) WITH SOLVENT WELD JOINTS (ASTM D2855). FOAM CORE PVC PIPE IS NOT APPROVED. PROVIDE CAST IRON PIPING SPECIFIED ABOVE FOR ALL KITCHEN AND MECHANICAL ROOM WASTE PIPING, PVC IS NOT ACCEPTABLE IN THESE AREAS.
2. SANITARY WASTE/VENT AND STORM DRAIN PIPING ABOVE GRADE: PROVIDE SERVICE WEIGHT CAST IRON NO-HUB PIPE AND FITTINGS (CISPI 301) WITH NEOPRENE GASKET AND STAINLESS STEEL CLAMP JOINTS (CISPI 310) OR PROVIDE SCHEDULE 40 PVC PIPE AND SOCKET FITTINGS (ASTM D 2665) WITH SOLVENT WELD JOINTS (ASTM D2855). FOAM CORE PIPE IS NOT APPROVED. DO NOT INSTALL PVC PIPING IN RETURN AIR PLENUMS.
3. SLOPE SANITARY WASTE AND STORM DRAIN PIPING AT ¼" PER FOOT MINIMUM FOR PIPING 2½" AND SMALLER AND ⅛" PER FOOT MINIMUM FOR PIPING 3" AND LARGER UNLESS NOTED OTHERWISE. SLOPE ALL KITCHEN WASTE PIPING AT ¼" PER FOOT MINIMUM.
4. PROVIDE CLEAN-OUTS AT THE BASE OF SANITARY WASTE STACKS AND STORM DRAIN RISERS AND AT EVERY TURN IN PIPING IN EXCESS OF 45° AND NO FURTHER THAN 100'-0" APART IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.
5. PROVIDE FLOOR CLEANOUTS WITH TOPS DESIGNED TO MATCH SPECIFIC FLOOR FINISHES SUCH AS CARPET, TILE, ETC. YARD CLEANOUTS SHALL BE PROVIDED IN AN 18"x18"x6" CONCRETE PAD.
6. WHERE WASTE PIPING IS EXPOSED IN REST ROOM AREAS, PROVIDE CHROME PLATED BRASS PIPING, REMOVABLE P-TRAPS, MATCHING STOPS AND ESCUTCHEONS FOR ALL LAVATORIES.
7. INSULATE MECHANICAL ROOM FLOOR DRAIN BODIES, P'TRAP AND HORIZONTAL DRAIN PIPING ABOVE GRADE WITH 1" THICK GLASS FIBER INSULATION WITH VAPOR BARRIER AND JACKET.
8. INSULATE ROOF DRAIN BODIES AND HORIZONTAL PRIMARY AND SECONDARY STORM DRAIN PIPING ABOVE GRADE WITH 1" THICK GLASS FIBER INSULATION WITH VAPOR BARRIER AND JACKET.
9. PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD.
10. SUMP PUMP DISCHARGE PIPING: PROVIDE SCHEDULE 40 GALVANIZED STEEL PIPE (ASTM A53) AND GALVANIZED 150 POUND MALLEABLE IRON FITTINGS (ASME B16.3) WITH THREADED JOINTS. SLOPE SUMP DISCHARGE LINE AT 1% SLOPE TOWARDS SUMP PUMP.

NATURAL GAS PIPING:

1. NATURAL GAS PIPING AND FITTINGS ABOVE GRADE: SCHEDULE 40 BLACK STEEL PIPING, TYPE S, SEAMLESS, GRADE B (ASTM A 53) AND 150 PSI MALLEABLE BLACK IRON FITTINGS, GRADE 32510, (ASTM B 16.3) OR FORGED STEEL WELDING TYPE FITTINGS (ASTM A234). PROVIDE THREADED JOINTS FOR PIPE 2" AND SMALLER. PROVIDE WELDED JOINTS (ASME B31.9) FOR PIPE 2½" AND LARGER.
2. NATURAL GAS PIPING AND FITTINGS OUTSIDE BELOW GRADE: SCHEDULE 40 BLACK STEEL, TYPE S, SEAMLESS, GRADE B (ASTM A 53) AND FORGED STEEL WELDING TYPE FITTINGS (ASTM A234) WITH (AWWA C105) POLYETHYLENE JACKET OR DOUBLE LAYER, HALF LAPPED 10 MIL POLYETHYLENE TAPE. PROVIDE WELDED JOINTS (ASME B31.9) FOR ALL UNDERGROUND PIPE.
3. GAS PIPING SHALL BE INSTALLED TO THE REQUIREMENTS OF THE STATE BUILDING CODE AND NFPA STANDARD NO. 54. SPACE GAS PIPING HANGER RODS 8'-0" ON CENTER MAXIMUM AND SPACE TRANSVERSE BRACING 20'-0" ON CENTER MAXIMUM. TRANSVERSE BRACING FOR ONE SECTION MAY ACT AS LONGITUDINAL BRACING FOR THE PIPE SECTION CONNECTED TO IT IF THE BRACING IS INSTALLED WITHIN 24" OF THE ELBOW OR TEE. PIPING SHALL BE SUPPORTED BY ROD HANGERS IN THE PIPE RUN 12" OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE PER THE STATE BUILDING CODE AND ASCE 7. COORDINATE HANGER LOCATIONS WITH STRUCTURAL DRAWING DETAILS.
4. PROVIDE A.G.A. CERTIFIED SHUT-OFF VALVES MINIMUM, 125 PSI RATED, NON- LUBRICATED PLUG TYPE WITH BRONZE BODY AND BRONZE PLUG, STRAINERS AND REGULATORS (AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER) FOR ALL EQUIPMENT CONNECTED TO THE NATURAL GAS SYSTEM.
5. PAINT ALL GAS PIPING WITH 2 COATS OF YELLOW ENAMEL PAINT APPLIED WITH A BRUSH (2 MIL THICKNESS MINIMUM). STENCIL "GAS" ON PIPE AT 12'-0" CENTERS FOR ALL LOW PRESSURE PIPING (0.5 PSI). STENCIL "2-PSI GAS" ON PIPE AT 6'-0" CENTERS FOR 2 PSI GAS PIPING.

PLUMBING GENERAL NOTES

GENERAL REQUIREMENTS:

1. PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LOUISIANA STATE PLUMBING CODE INCLUDING TITLE 51 AND WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. ⚠2
2. GENERAL AND SPECIAL CONDITIONS ARE HEREBY MADE AN INTEGRAL PART OF THE PLUMBING SPECIFICATIONS INSOFAR AS THE GENERAL AND SPECIAL CONDITIONS ARE APPLICABLE TO THE PLUMBING WORK, UNLESS OTHERWISE SPECIFIED.
3. SCOPE: PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL PLUMBING SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES.
4. PERMITS: APPLY AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION. ACREAGE CHARGES, FACILITIES CHARGES AND BOND PROPERTY ASSESSMENTS ARE NOT TO BE CONSTRUED TO BE A PART OF THIS CONTRACT.
5. WARRANTY: PROVIDE A ONE YEAR WARRANTY, FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER, FOR ALL PLUMBING MATERIALS AND EQUIPMENT.
6. COORDINATE ALL PLUMBING PIPING LOCATIONS, ROUGH-IN LOCATIONS AND EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. FINAL PIPING AND EQUIPMENT LOCATIONS SHALL BE A CODE COMPLIANT INSTALLATION FOR ALL TRADES.
7. FIELD VERIFY PROPER OPERATION OF EXISTING SYSTEMS BEFORE STARTING CONSTRUCTION. NOTIFY THE ARCHITECT / ENGINEER OF RECORD OF ANY PROBLEMS OR DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS AND/OR ANY POTENTIAL PROBLEMS OBSERVED BEFORE CONTINUING WORK IN THE EFFECTED AREAS.
8. CUT WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF PLUMBING WORK. ALL CUTTING SHALL BE HELD TO A MINIMUM. PATCH AND FINISH SURFACES TO MATCH ADJOINING SURFACES.
9. PLUMBING PLANS SHALL NOT BE SCALED. REFERENCE THE ARCHITECTURAL PLANS FOR ALL LOCATIONS OF PLUMBING FIXTURES, WALLS, DOORS, WINDOWS, ETC.
10. PLUMBING PIPING SHALL BE LOCATED CONCEALED IN WALLS, PARTITIONS OR ABOVE CEILINGS UNLESS NOTED OTHERWISE. PLUMBING PIPING IN EXPOSED AREAS SHALL BE RUN TIGHT TO UNDERSIDE OF STRUCTURE.
11. PLUMBING PIPING, VENTS, ETC. EXTENDING THROUGH EXTERIOR WALLS AND/OR THE ROOF SHALL BE FLASHED AND COUNTER FLASHED IN A WATERPROOF MANNER. COORDINATE FLASHING WITH THE GENERAL CONTRACTOR.
12. DO NOT INSTALL PLUMBING PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES. INSTALL PLUMBING PIPING SHOWN IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION.
13. PROVIDE NON-CONDUCTING DIELECTRIC UNIONS WHENEVER CONNECTING DISSIMILAR METALS.
14. ATTACH HANGERS TO STRUCTURE, HANGERS SHALL NOT ATTACH TO THE DECK.
15. PROVIDE ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTORS, TRAP PRIMERS, ETC. CONCEALED IN MASONRY WALLS, GYPBOARD WALLS AND/OR CEILINGS THAT WILL REQUIRE MAINTENANCE ACCESS.
16. PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO: PLUMBING FIXTURES AND EQUIPMENT, FIRE STOPPING, SEISMIC BRACING, PIPE IDENTIFICATION, DOMESTIC WATER SYSTEM, SANITARY WASTE AND VENT SYSTEM, STORM DRAIN SYSTEM, NATURAL GAS SYSTEM

PLUMBING FIXTURES AND EQUIPMENT:

1. PROVIDE COMPLETE PLUMBING FIXTURES AND EQUIPMENT. INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAIL PIECES, ESCUTCHEONS, ETC.
2. PLUMBING FIXTURES AND EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
3. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SUBSTITUTIONS TO SPECIFIED PLUMBING FIXTURES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO; PROVIDING MAINTENANCE ACCESS CLEARANCE, PIPING, ELECTRICAL, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, ETC. AND ANY MODIFICATIONS TO ASSOCIATED MECHANICAL, ELECTRICAL OR PLUMBING SYSTEMS REQUIRED BY THE EQUIPMENTS INSTALLATION INSTRUCTIONS. ALL COSTS ASSOCIATED WITH SUBSTITUTIONS SHALL BE INCLUDED IN THE ORIGINAL BASE BID.

FIRE STOPPING:

1. FIRE STOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS AND PARTITIONS. PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814 AND INSTALL IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE A DEVICE(S) OR SYSTEM(S) WITH AN 'F' RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED. REFER TO ARCHITECTURAL PLANS FOR WALL AND FLOOR TYPES.

SEISMIC BRACING:

1. PROPERLY SUPPORT AND BRACE VERTICALLY AND HORIZONTALLY ALL PIPING, APPARATUS, EQUIPMENT, ETC. IN ACCORDANCE WITH APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.

PIPE IDENTIFICATION:

1. PIPE IDENTIFICATION SHALL MATCH THE FACILITY'S EXISTING STANDARD. IF NO STANDARD EXISTS, THEN THE PIPE IDENTIFICATION SHALL BE IN ACCORDANCE WITH ANSI A13.1.
2. PROVIDE PIPING LABELS FOR ALL PLUMBING PIPING. PIPING LABELS SHALL BE ACRYLIC FACED, WRAP-AROUND TYPE. EACH LABEL SHALL INDICATE THE PIPING CONTENTS, DIRECTION OF FLOW AND SHALL BEAR THE MANUFACTURER'S STANDARD COLOR FOR THE SERVICE INDICATED.

PLUMBING LEGEND

EXISTING PIPING	NEW PIPING	ABBR.	DESCRIPTION
(E) -		CW	COLD WATER PIPING
(E) -		HW	HOT WATER PIPING
(E) -		HWR	HOT WATER RETURN PIPING
(E) -		W	SANITARY WASTE PIPING
(E) -		V	SANITARY VENT PIPING
SD(E) -	SD	SD	STORM DRAIN PIPING - BEL. GRADE
SD(E) -	SD	SD	STORM DRAIN PIPING - ABV. CEILING
ESD(E) -	ESD	ESD	EMERGENCY STORM DRAIN PIPING
G(E) -	G	G	NATURAL GAS PIPING
GW(E)	GW	GW	GREASE LADEN WASTE PIPING
D(E) -	D	D	DRAIN
		-	EXISTING PIPING TO BE REMOVED
		-	ELBOW DOWN
		-	ELBOW UP
		-	PIPE CONTINUES
		-	PIPE CAP
		-	BALL VALVE
		CV	CHECK VALVE
		BV	BALANCING VALVE / CIRCUIT SETTER
		-	GAS COCK
		PRV	PRESSURE REDUCING/REGULATING VALVE
		-	SOLENOID VALVE
		RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
		-	IN-LINE PUMP
		-	DIRECTION OF FLOW
		-	PIPE REDUCER
		FCO	FLOOR CLEAN OUT
		WCO	WALL CLEAN OUT
		CO	END OF LINE CLEAN OUT
		YCO	YARD CLEAN OUT
		FD	FLOOR DRAIN
		FS	FLOOR SINK
		RD	ROOF DRAIN
		HB	HOSE BIBB/WALL HYDRANT
	SA=#	SA	SHOCK ARRESTOR - SUFFIX INDICATES PDI SIZE
		-	THERMOMETER
		-	PRESSURE GAUGE
		TP	TRAP PRIMER
		CTE	CONNECT TO EXISTING
			POINT OF DEMOLITION

ADDITIONAL ABBREVIATIONS

ABV	ABOVE	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LAV	LAVATORY
BAS	BUILDING AUTOMATION SYSTEM	MBH	1,000 BTUH
BEL	BELOW	MH	MOUNTING HEIGHT
BF	BARRIER FREE	PH	PHASE
BFF	BELOW FINISHED FLOOR	PSI	POUNDS PER SQUARE INCH
BTUH	BRITISH THERMAL UNIT / HOUR	SF	SQUARE FEET
CFH	CUBIC FEET PER HOUR	T&P	TEMPERATURE AND PRESSURE
CLG	CEILING	TW	TEMPERED WATER
CONT	CONTINUATION	TYP	TYPICAL
DFU	DRAINAGE FIXTURE UNIT (WASTE)	UR	URINAL
DN	DOWN	VB	VACUUM BREAKER
FFE	FINISHED FLOOR ELEVATION	VLV	VALVE
FIN	FINISH	VTR	VENT THRU ROOF
FL	FLOOR	WC	WATER COLUMN
FR	FROM		
FU	FIXTURE UNITS	EC	ELECTRICAL CONTRACTOR
GPM	GALLONS PER MINUTE	FSEC	FOOD SERVICE EQUIP. CONTRACTOR
HP	HORSE POWER	GC	GENERAL CONTRACTOR
INV	INVERT ELEVATION	MC	MECHANICAL CONTRACTOR
IW	INDIRECT WASTE	PC	PLUMBING CONTRACTOR

FLOW TEST INFORMATION

FLOW TEST DATE: 4-22-2013
TEST CONDUCTED BY: ANTONIO DENNIS AND JERRY BELTON
LOCATION: AT OR AROUND SAM'S CLUB, 5400 FRONTAGE RD

WATER MAIN SIZES: 8" & 12"
STATIC PRESSURE: 60 PSIG
RESIDUAL PRESSURE: 45 PSIG
PITOT: 30
GPM: 920

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STATE OF LOUISIANA
GEORGE WILLIS AUSTIN
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PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
11-25-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Schedule and Notes - Plumbing

Phase
FOR CONSTRUCTION

Project No. 12-111
Prepared by JCF
Checked by WGA
Date September 16, 2013

Sheet No.
P001

Released for

Hampton Inn and Suites

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

SYM.	DESCRIPTION	CONNECTIONS (IN.) W	V	CW	HW	SPECIFICATION	REMARKS
CO	PLUG CLEANOUT (END OF LINE) CAST IRON BODY	NOTED	–	–	–	CLEANOUT: SMITH 4470T	
FCO	FLOOR CLEANOUT, ADJUSTABLE CAST IRON BODY NO-HUB CONNECTION GAS/WATER TIGHT ABS PLUG SCORIATED TOP	NOTED	–	–	–	CLEANOUT: SMITH 4031L FINISH: POLISHED NICKEL BRONZE	
WCO	WALL CLEANOUT CAST IRON BODY, GAS/WATER TIGHT ABS PLUG STAINLESS STEEL COVER	NOTED	–	–	–	CLEANOUT: SMITH 4422	
YCO	YARD CLEANOUT, ADJUSTABLE CAST IRON BODY NO-HUB CONNECTION GAS/WATER TIGHT ABS PLUG SCORIATED TOP	NOTED	–	–	–	CLEANOUT HOUSING: SMITH 4250 CLEANOUT FERRULE: SMITH	SET IN 18"L x 18"W x 6"D CONCRETE PAD.
FD1	FLOOR DRAIN CAST IRON BODY NO-HUB CONNECTION 6" DIA. TOP	NOTED	–	–	–	DRAIN: SMITH 2005 STRAINER: SMITH TYPE –A FINISH: POLISHED NICKEL BRONZE	SEE FLOOR PLANS FOR FLOOR DRAIN SIZES
FD2	FLOOR DRAIN CAST IRON BODY NO-HUB CONNECTION 7" DIA. TOP	NOTED	–	–	–	DRAIN: SMITH 2005 STRAINER: SMITH TYPE –F37 FINISH: POLISHED NICKEL BRONZE	SEE FLOOR PLANS FOR FLOOR DRAIN SIZES
FD3	FLOOR DRAIN CAST IRON BODY NO-HUB BOTTOM DOME STRAINER	NOTED	–	–	–	DRAIN: SMITH 2005 STRAINER: SMITH TYPE –G FINISH: POLISHED NICKEL BRONZE	SEE FLOOR PLANS FOR FLOOR DRAIN SIZES
FS1	FLOOR SINK STAINLESS STEEL BODY NO-HUB CONNECTION 12" x 12", 6" DEEP BOTTOM DOME STRAINER	NOTED	–	–	–	DRAIN: SMITH 3002–Y STRAINER: STAINLESS STEEL ½ GRATE FINISH: POLISHED STAINLESS STEEL	SEE FLOOR PLANS FOR FLOOR DRAIN SIZES
MXV1	MIXING VALVE, HIGH–LOW TYPE STAINLESS STEEL OR BRONZE CONSTRUCTION.	–	–	1"	1"	EQUIPMENT: LAWLER 66–25 1¼" OUTLET 2 GPM MIN. FLOW, 17 GPM MAX. @ 20 PSI PRESSURE DROP.	INSTALL PER AND PIPE HW CIRC. PIPING PER MFG. RECOMMENDATIONS
MXV2	MIXING VALVE	–	–	½"	½"	EQUIPMENT: LEONARD MODEL TA–SB	
HB1	HOSE BIBB	–	–	½"	–	FIXTURE: JR SMITH 5672 FINISH: POLISHED CHROME	
HB2	HOSE BIBB FREEZE PROOF	–	–	¾"	–	FIXTURE: JR SMITH 5517 FINISH: CHROME	
HB3	HOSE BIBB, ROOF TOP FREEZE PROOF	–	–	¾"	–	FIXTURE: MAPPA MPH–24FP FINISH: STAINLESS STEEL	
HB4	HOSE BIBB, POST HYDRANT FREEZE PROOF	–	–	¾"	–	FIXTURE: JR SMITH 5904 FINISH: GALVANIZED CASING	2
UCB	UTILITY CONNECTION BOX (WASHING MACHINE)	2"	1½"	½"	½"	FIXTURE: OUY GRAY–B–150 FINISH: EPOXY	
ICB	UTILITY CONNECTION BOX (PLASTIC) (REFRIGERATOR ICEMAKER) WITH 1/4 TURN VALVE AND MOUNTED WATER HAMMER ARRESTOR W/ DRAIN CONNECTION	–	–	½"	–	FIXTURE: SOUIX CHEIF 6962403XF WASTE CONN.: SOUIX CHIEF "OX BOX" 696–3 CW SUPPLY FIRE RATED: 696–R1010AF	
TP1	AUTOMATIC TRAP PRIMER	–	–	½"	–	EQUIPMENT: PPP DU–U	
SP1	OIL MINDER ELEVATOR SUMP PUMP AND CONTROL SYSTEM WITH REMOTE AUDIBLE AND VISUAL ALARM.	1½"	–	–	–	EQUIPMENT: STANCOR SE50 ELECTRICAL: 1/2 H.P. 120V/1ø INTEGRAL OIL SENSING SYSTEM	PROVIDE BACKWATER CHECK VALVE AND SHUT VALVE ON DISCHARGE LINE.
GI1	GREASE INTERCEPTOR RECESSED IN FLOOR	3"	2"	–	–	FIXTURE: ZURN Z–1172–900 CAPACITY: 150 LBS. (GREASE) FLOW: 75 GPM	EXTENSION AS REQUIRED.
LI1	LINT INTERCEPTOR RECESSED IN FLOOR	4"	2"	–	–	FIXTURE: ZURN Z–1185–10 FLOW: 100 GPM	EXTENSION AS REQUIRED.

PUMP SCHEDULE

SYM.	DESCRIPTION	TYPE	GPM	HEAD(FT)	ELECTRICAL DATA HP	V	PH	Hz	SELECTION BASED ON MANUFACTURER & MODEL	REMARKS
CP1	HOT WATER CIRC. PUMP	IN–LINE	20	18	3/4	120	1	60	B&G NBF–36	1,2
CP2	HOT WATER CIRC. PUMP	IN–LINE	10	8	1/6	120	1	60	B&G NBF–22	1,2
DBP1	DOMESTIC BOOSTER PUMP	–	100	100	3	480	3	60	HYFAB MVP–630	3,4

REMARKS:
1. PROVIDE AQUASTAT AND TIMER CONTROL.
2. PROVIDE CONNECTION POINT FOR BAS
3. PROVIDE CONNECTION POINTS FOR BAS SYSTEM FOR LOW SUCTION
4. PROVIDE FLEXIBLE TRANSISTION FITTINGS

CIRCUIT SETTER SCHEDULE

SYM.	DESCRIPTION	SIZE	FLOW (GPM)	SELECTION BASED ON MANUFACTURER	MODEL	REMARKS
CS1	CIRCUIT SETTER	¾"	1	VICTAULIC	TA	–

FLOWS INDICATED ABOVE ARE ESTIMATED. THE PC SHALL OBTAIN THE SERVICES OF A TEST AND BALANCE CONTRACTOR TO BALANCE THE DOMESTIC HOT WATER CIRCULATION SYSTEM TO THE PERFORMANCE SPECIFICATIONS INDICATED ON THE PLANS AND PROVIDE THE ENGINEER WITH THREE COPIES OF A COMPLETE TEST AND BALANCE REPORT. THE REPORT IS TO BE ISSUED A MINIMUM OF TWO WEEKS PRIOR TO PROJECT COMPLETION. THE TEST AND BALANCE REPORT WILL BE SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER. ANY ADDITIONAL TESTING, ADJUSTING AND BALANCING REQUIRED (AT ENGINEER'S REQUEST) AFTER REVIEW OF THE INITIAL REPORT SHALL BE PROVIDED AT NO ADDITIONAL COST. TEST AND BALANCE REPORT TO BE COMPLETED BY AN INDEPENDENT, CERTIFIED TEST AND BALANCE CONTRACTOR.

GAS FIRED WATER HEATER SCHEDULE

SYM.	DESCRIPTION	STORAGE (GALLONS)	GAS BURNER DATA INLET PRESS. (IN. W.C.)	BTU/HR INPUT	GPH RECOVERY @ 100°F RISE	FLUE SIZE	SELECTION BASED ON MANUFACTURER	MODEL	REMARKS
WH1	GAS FIRED WATER HEATER	100	8	199,000	223	4"	A.O. SMITH	BTH–199	1,2

REMARKS:
1. EQUIVALENT MANUFACTURERS: LOCHINVAR, BRADFORD WHITE. STATE IS NOT AN APPROVED MANUFACTURER.
2. RACK MOUNTED, DIRECT AIR INTAKE AND EXHAUST KIT.
3. PROVIDE AMTROL ST–12 EXPANSION TANK OR EQUAL

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

SYM.	DESCRIPTION	CONNECTIONS (IN.) W	V	CW	HW	SPECIFICATION	REMARKS
P1	TOILET HET (HIGH EFFICIENCY TOILET, TANK TYPE, 2–PIECE, 1.28 GPF FLOOR MOUNTED GRAVITY FLUSH	4"	2"	½"	–	FIXTURE: AMERICAN STD. "CADET 3" 2383.012.020 SEAT: CHURCH 9500CT STOP: MCGUIRE 185–LK COLOR: WHITE MATERIAL: VITREOUS CHINA	RIM HEIGHT 15"
P1A	TOILET, ADA COMPLIANT HET (HIGH EFFICIENCY TOILET) TANK TYPE, 2–PIECE, 1.28 GPF FLOOR MOUNTED GRAVITY FLUSH	4"	2"	½"	–	FIXTURE: AMERICAN STD. "CADET 3" 2386.012.020 SEAT: CHURCH 9500CT STOP: MCGUIRE 185–LK COLOR: WHITE MATERIAL: VITREOUS CHINA	RIM HEIGHT 16½" PROVIDE LEVER ON WIDE SIDE OF STALL SEAT HEIGHT 17"–19" AFF
P1B	TOILET HET (HIGH EFFICIENCY TOILET) FLOOR MOUNTED FLUSH VALVE, 1.28 GPF SENSOR OPERATED	4"	2"	1¼"	–	FIXTURE: AMERICAN STD. "MADERA" 3451.128 SEAT: CHURCH 9500CT FLUSH VALVE: SLOAN SOLIS 8111–1.28 COLOR: WHITE MATERIAL: VITREOUS CHINA	RIM HEIGHT 15"
P1C	TOILET, ADA COMPLIANT HET (HIGH EFFICIENCY TOILET) FLOOR MOUNTED FLUSH VALVE, 1.28 GPF SENSOR OPERATED	4"	2"	1¼"	–	FIXTURE: AMERICAN STD. "MADERA" 3461.128 SEAT: CHURCH 9500CT FLUSH VALVE: SLOAN SOLIS 8111–1.28 COLOR: WHITE MATERIAL: VITREOUS CHINA	RIM HEIGHT 16½" PROVIDE LEVER ON WIDE SIDE OF STALL SEAT HEIGHT 17"–19" AFF
P2A	URINAL, ADA COMPLIANT HEU (HIGH EFFICIENCY URINAL) WALL HUNG FLUSH VALVE 0.5 GPF	2"	1½"	1"	–	FIXTURE: AMERICAN STD. "ALLBROOK" 6550.050 FLUSH VALVE: SLOAN SOLIS 8186–0.5 COLOR: WHITE MATERIAL: VITREOUS CHINA CARRIER: SMITH 0644, 0624	PROVIDE LEVER ON WIDE SIDE OF STALL BOWL RIM HEIGHT 17" AFF
P3	LAVATORY ADA COMPLIANT WALL HUNG GRID DRAIN 0.25 GPM PER CYCLE SENSOR OPERATED FAUCET	1½"	1½"	½"	½"	FIXTURE: AMERICAN STD. 0355.012 "LUCERNE" DRAIN: MCGUIRE 155A GRID STRAINER FAUCET: DELTA 596–LGHGMHDF P–TRAP: MCGUIRE 8902 1¼" x 1½" STOPS: MCGUIRE 175–LK COLOR: WHITE MATERIAL: VITREOUS CHINA	PROVIDE INSULATION KIT FOR EXPOSED TRIM: TRUEBRO "LAV–GUARD" OR APPROVED EQUAL. BOWL RIM HEIGHT 34" AFF
P3A	LAVATORY ADA COMPLIANT UNDER COUNTER MOUNTED GRID DRAIN 0.25 GPM PER CYCLE SENSOR OPERATED FAUCET CHROME PLATED TRAPS	1½"	1½"	½"	½"	FIXTURE: AMERICAN STD. 0496.221.020 DRAIN: MCGUIRE 155A GRID STRAINER FAUCET: DELTA 596–LGHGMHDF P–TRAP: MCGUIRE 8902 1¼" x 1½" STOPS: MCGUIRE 175–LK COLOR: WHITE MATERIAL: VITREOUS CHINA	PROVIDE INSULATION KIT FOR EXPOSED TRIM: TRUEBRO "LAV–GUARD" OR APPROVED EQUAL.
P3B	LAVATORY ADA COMPLIANT COUNTER MOUNTED GRID DRAIN 0.5 GPM FAUCET	1½"	1½"	½"	½"	FIXTURE: AMERICAN STD. 0476.028 "AQUALYN" DRAIN: MCGUIRE 155A GRID STRAINER FAUCET: DELTA 501–WFHGMHDF P–TRAP: MCGUIRE 8902 1¼" x 1½" STOPS: MCGUIRE 175–LK COLOR: WHITE MATERIAL: VITREOUS CHINA	PROVIDE INSULATION KIT FOR EXPOSED TRIM: TRUEBRO "LAV–GUARD" OR APPROVED EQUAL.
P4A	ELECTRIC WATER COOLER, ADA SURFACE MOUNTED, SPLIT LEVEL STEEL CABINET, ENAMEL FINISH	1½"	1½"	½"	–	FIXTURE: ELKAY EZTL8C P–TRAP: MCGUIRE 8902 1¼" x 1½", STOP: MCGUIRE 175	COORDINATE FINISH WITH ARCHITECT
P5A	STAINLESS STEEL SINK, A.D.A. BREAK ROOM SINK 20" x 22" (16" x 16" BOWL) 3 HOLE DRILLING UNDERCOUNTER MOUNTED	1½"	1½"	½"	½"	FIXTURE: ELKAY ELUH–2115–06 DRAIN: ELKAY LK–35 FAUCET: DELTA 29C2851 P–TRAP: MCGUIRE 8912 1½" x 1½" STOPS: MCGUIRE 175	2
P6A	BATHTUB, ADA PRESSURE BALANCED SHOWER VALVE W/TEMP LIMIT STOPS, WALL SHOWERHEAD.	2"	2"	½"	½"	FIXTURE: AMERICAN STD. 2590.060 WALLS: AMERICAN STD. 6030605S1.SWM SHOWER VALVE: AMERICAN STD. T385.502 SHOWER HEAD: POWERS 141–371 GRID DRAIN: CHROME PLATED NO–CAULK DRAIN P–TRAP: 2" DEEP SEAL TRAP	COORDINATE RIGHT OR LEFT HAND CONTROLS WITH ARCHITECTURAL INTERIOR ELEVATIONS PROVIDE FOLD DOWN PHENOLIC SEAT AT ADA SHOWER(S) ONLY. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
P6B	SHOWER, MULTI PIECE, SOLID SURFACE PRESSURE BALANCED SHOWER VALVE W/TEMP LIMIT STOPS. WALL SHOWERHEAD AND HAND HELD SHOWER WITH HOSE AND SLIDE BAR. CHROME GRAB BARS AND PHENOLIC WOOD FOLD DOWN SEAT	2"	2"	½"	½"	FIXTURE: AMERICAN STANDARD 3838SO.LDF WALLS: AMERICAN STD. 6030605S1.SWM SHOWER VALVE: AMERICAN STD. 1662.601 SHOWER HEAD: POWERS 141–371 GRID DRAIN: CHROME PLATED NO–CAULK DRAIN P–TRAP: 2" DEEP SEAL TRAP	COORDINATE RIGHT OR LEFT HAND CONTROLS WITH ARCHITECTURAL INTERIOR ELEVATIONS PROVIDE FOLD DOWN PHENOLIC SEAT AT ADA SHOWER(S) ONLY. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
P7A	MOP SINK MOLDED STONE 24" x 24" x 10" BUMPER GUARDS	3"	1½"	½"	½"	BASIN: FLORESTONE MSR–2424 DRAIN: FLORESTONE MR–375 FAUCET: FLORESTONE MR–371 ACCESSORIES: MR–370 HOSE & BRACKET ACCESSORIES: MR–372 MOP HANGER ACCESSORIES: MR–373 BUMPER GUARDS	
P7B	UTILITY SINK LAUNDRY/READY ROOM 23" x 22" 2 HOLE DRILLING	1½"	1½"	½"	½"	FIXTURE: FLORESTONE FM DRAIN: MCGUIRE 155 FAUCET: DELTA 2121 P–TRAP: MCGUIRE 8912 1½" x 1½" STOPS: MCGUIRE 175	
P20	EMERGENCY EYE WASH	–	–	¾"	¾"	FIXTURE: HAWS 7001 BLENDING SYSTEM: HAWS TWBS.SH CABINET: HAWS TWBS.CAB	

APPROVED MANUFACTURERS:	SPECIFIED MANUFACTURER/PRODUCT:	ACCEPTED SUBSTITUTION:
THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY MATCHES THE SPECIFIED PRODUCT. PROVIDE ONLY PRODUCTS MADE BY THE MANUFACTURER'S LISTED.	AMERICAN STANDARD (A.S.) CHURCH (TOILET SEATS) CHICAGO (FAUCETS) ELKAY (S.S. SINKS) MCGUIRE (SUPPLY STOPS) OASIS (WATER COOLERS) SMITH (FLOOR DRAINS, CLEANOUTS)	KOHLER, SLOAN CENTOCO, BENEKE, BEMIS T&S BRASS, CAMBRIDGE JUST BRASSCRAFT, E.B.C. ELKAY, HAWS ZURN, WADE, WATTS

NOTE TO PLUMBING CONTRACTOR:
PLUMBING FIXTURE AND EQUIPMENT SCHEDULE IN THIS SET OF DOCUMENTS IS FOR REFERENCE ONLY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR SUBMITTING FIXTURES AND EQUIPMENT PER THE PLUMBING AND EQUIPMENT FIXTURE MATRIX PROVIDED BY THE HOTEL CHAIN. PC SHALL PROVIDE MATRIX WITH SUBMITTALS FOR APPROVAL. THE PC IS SOLELY RESPONSIBLE FOR ANY AND ALL SUBSTITUTIONS TO APPROVED PRODUCT. REVIEW OF SUBSTITUTED FIXTURES, EQUIPMENT, MATERIALS, MECHANICAL ROOM LAYOUTS, ETC SHALL BE BILLED TO THE PLUMBING CONTRACTOR ON AN HOURLY BASIS. EQUIPMENT SUBSTITUTIONS SHALL BE SUBMITTED WITH ¼"SCALE DRAWINGS OF THE EQUIPMENT (INCLUDING ALL NECESSARY PIPING, VALVES, SUPPORTS, HOUSE KEEPING PADS, ETC) WITHIN THE ALLOCATED SPACE SHOWN ON THE CONTRACT DOCUMENTS.

NOTE: PROVIDE CHECK STOPS ON SUPPLIES FOR ALL GUEST ROOM LAVATORIES.

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GEORGE WILLIS AUSTIN
License No. 33758
PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
11-25-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Schedule - Plumbing

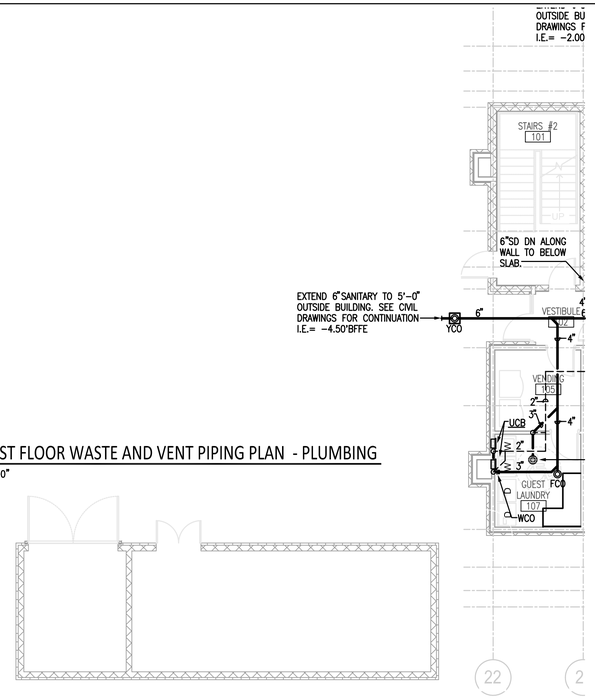
Phase
FOR CONSTRUCTION

Project No. 12-111
Prepared by JCF
Checked by WGA
Date September 16, 2013

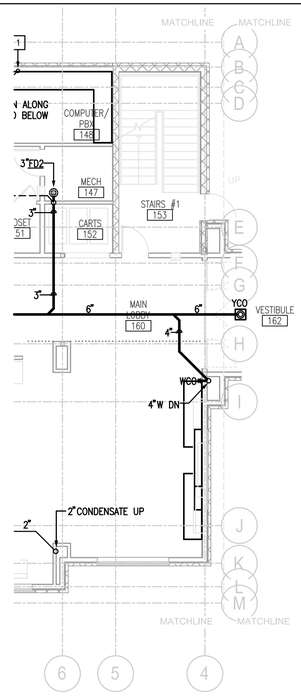
Sheet No. P002

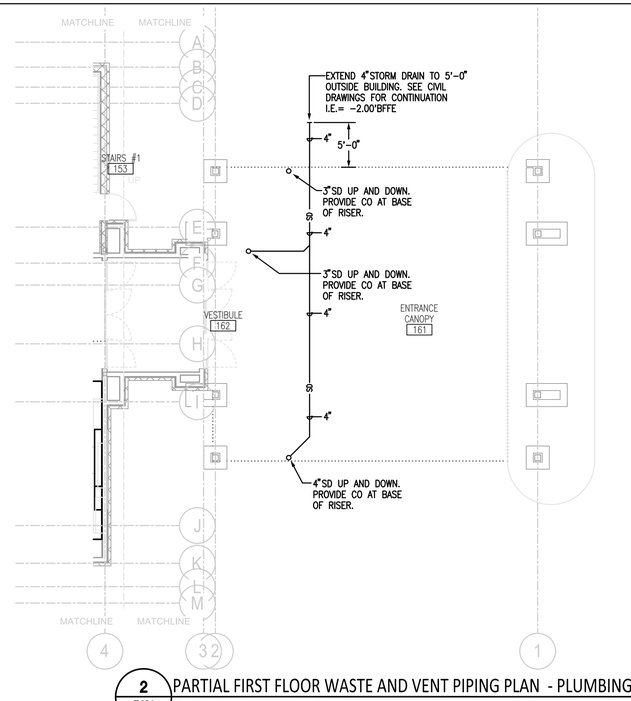
Released for

Hampton Inn and Suites

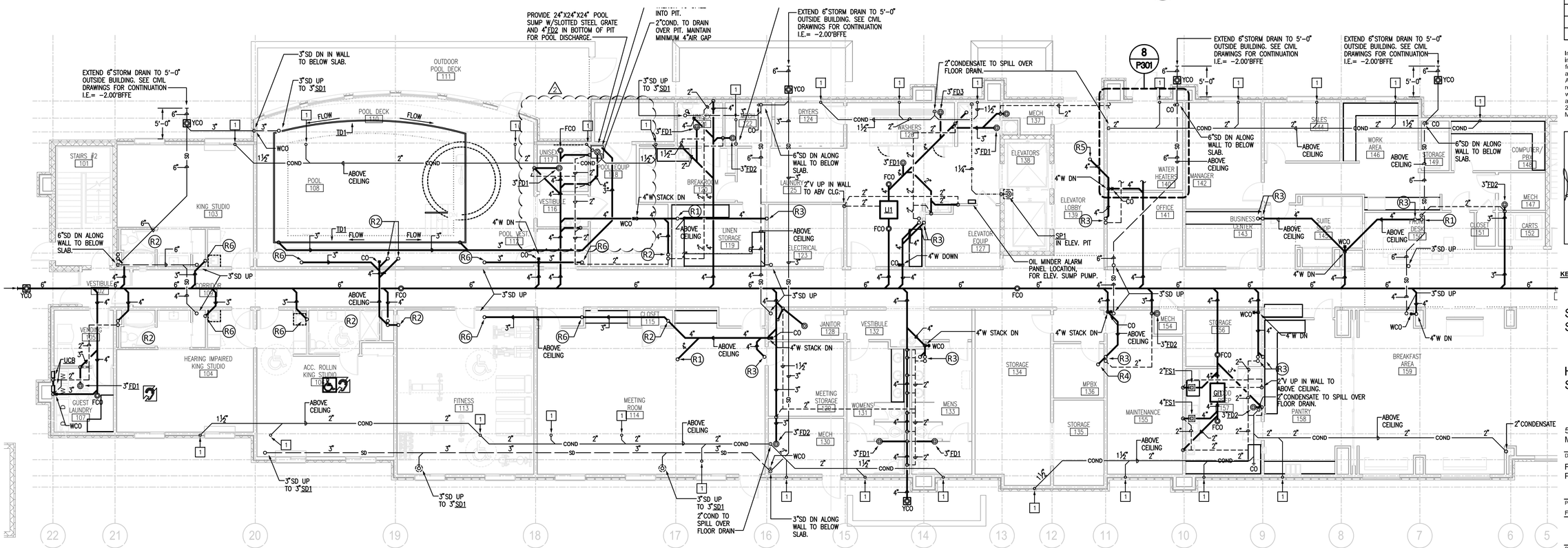


3 P101 PARTIAL FIRST FLOOR WASTE AND VENT PIPING PLAN - PLUMBING
SCALE: 1/8" = 1'-0"





2 P101 PARTIAL FIRST FLOOR WASTE AND VENT PIPING PLAN - PLUMBING
SCALE: 1/8" = 1'-0"



R# SEE WASTE AND VENT RISER SCHEMATICS ON SHEET P401

1 CONDENSATE RISER FOR IN ROOM PTAC UNITS. PROVIDE 1¼" TEE AT EACH FLOOR FOR MECHANICAL CONDENSATE DISCHARGE CONNECTION. CONDENSATE RISER 1½" UNLESS OTHERWISE NOTED.

1 P101 PARTIAL FIRST FLOOR WASTE AND VENT PIPING PLAN - PLUMBING
SCALE: 1/8" = 1'-0"

NOTE:
PROVIDE CLEAN OUT (CO)
AT BASE OF ALL STACKS.

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KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
First Floor, Waste and Vent Piping Plan - Plumbing

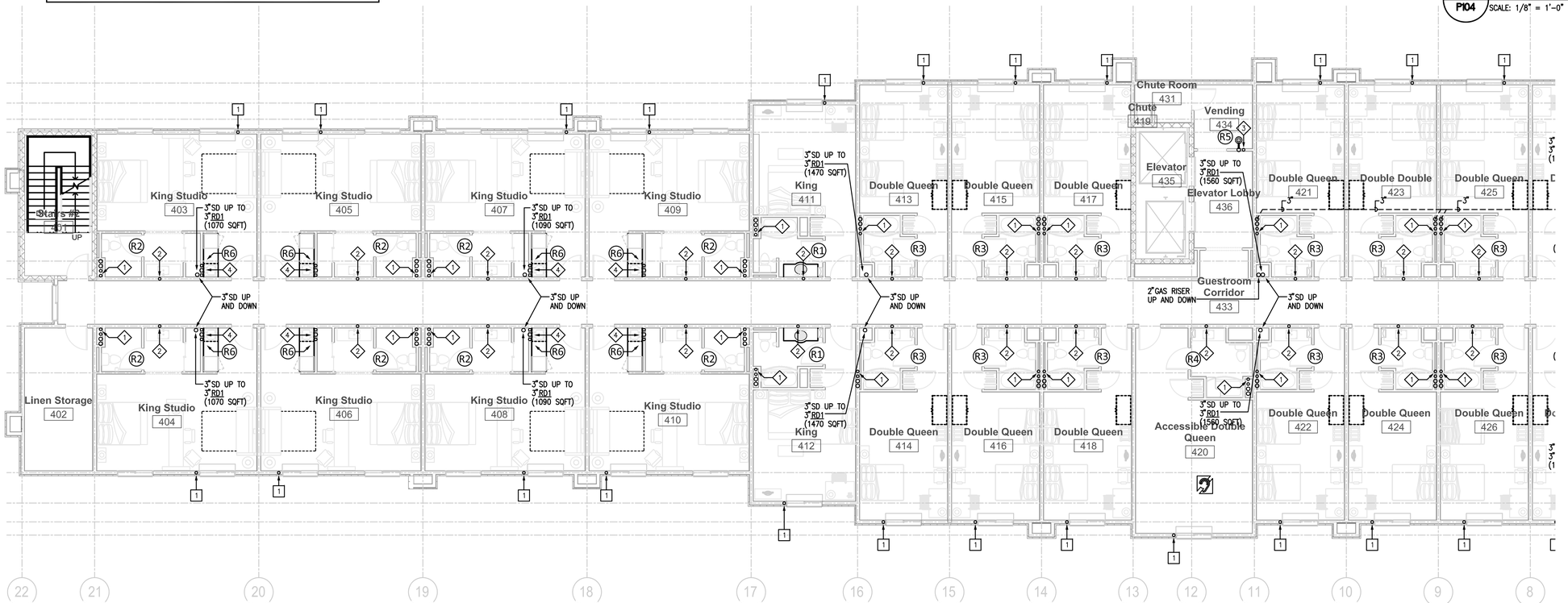
Phase
FOR CONSTRUCTION

Project No.	12-111
Prepared by	JCF
Checked by	WGA
Date	September 16, 2013

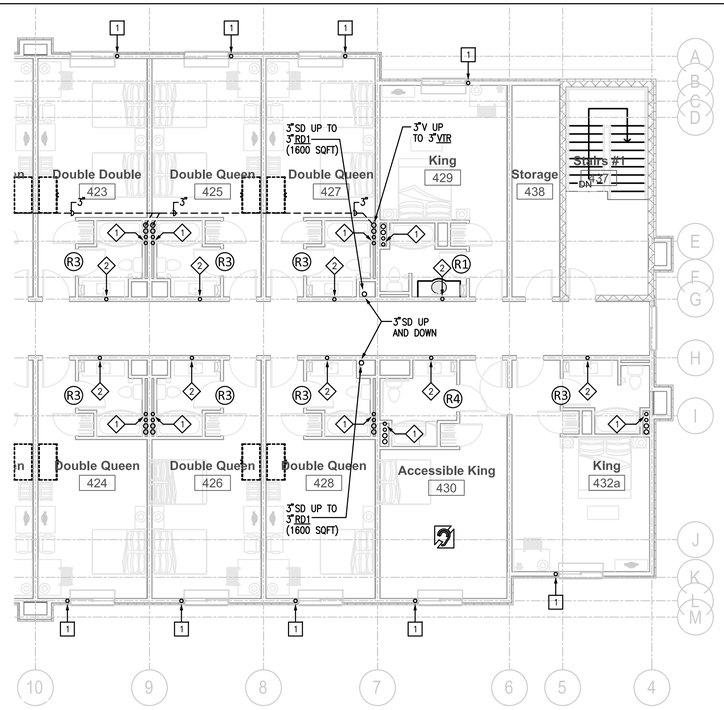
Sheet No. P101

Released for

Hampton Inn and Suites



1 P104 PARTIAL FOURTH FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"



2 P104 PARTIAL FOURTH FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"

1. CW AND HW RISER FOR TOILET GROUP. SEE RISER SCHEMATICS ON SHEET P401
2. HWR RISER FOR TOILET GROUP. SEE RISER SCHEMATICS ON SHEET P401
3. CW RISER FOR VENDING AREA. SEE RISER SCHEMATICS ON SHEET P401
4. CW AND HW RISER FOR IN ROOM SINKS. SEE RISER SCHEMATICS ON SHEET P401

[1] CONDENSATE RISER FOR IN ROOM PTAC UNITS. PROVIDE 1¼" TEE AT EACH FLOOR FOR MECHANICAL CONDENSATE DISCHARGE CONNECTION. CONDENSATE RISER 1½" UNLESS OTHERWISE NOTED.

(R#) SEE WASTE AND VENT RISER SCHEMATICS ON SHEET P401

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REVISIONS		
No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN
License No. 33754
PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
9-13-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Fourth Floor, Waste and Vent Piping Plan - Plumbing

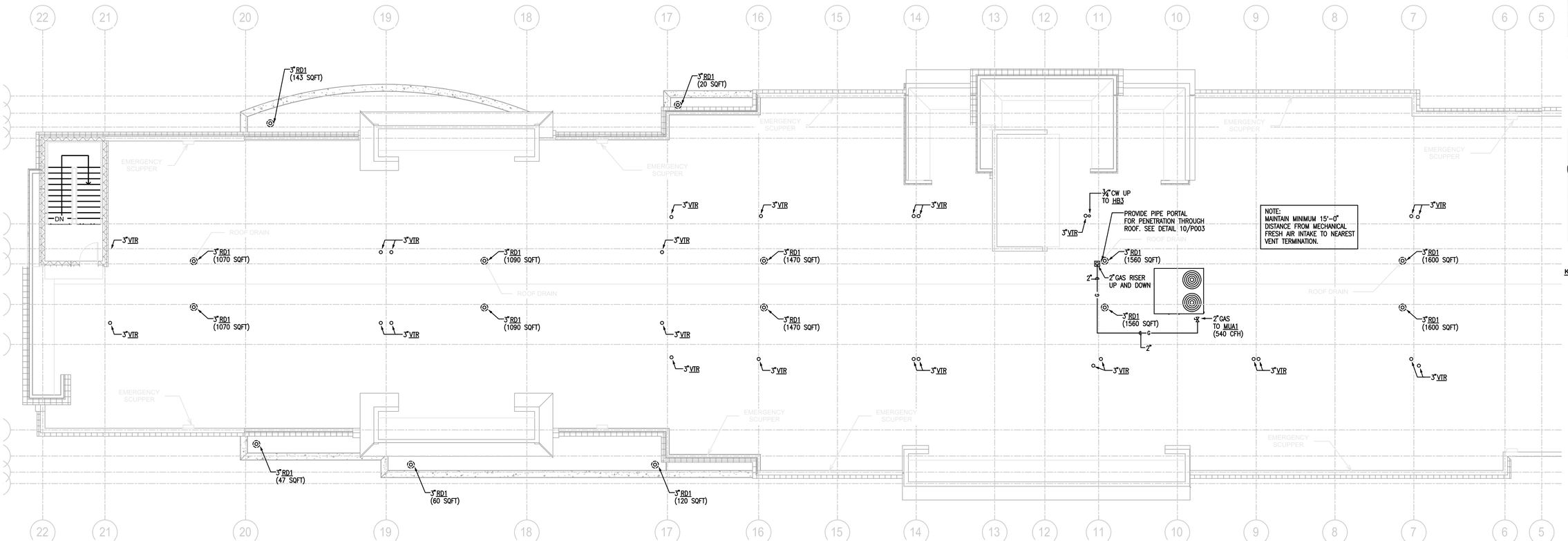
Phase
FOR CONSTRUCTION

Project No.	12-111
Prepared by	JCF
Checked by	WGA
Date	September 16, 2013

Released for

Sheet No.
P104

Hampton Inn and Suites



1 P5.101 ROOF PLAN - PLUMBING
SCALE: 1/8" = 1'-0"

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REVISIONS		
No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN
License No. 33754
PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
9-13-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Roof Plan - Plumbing

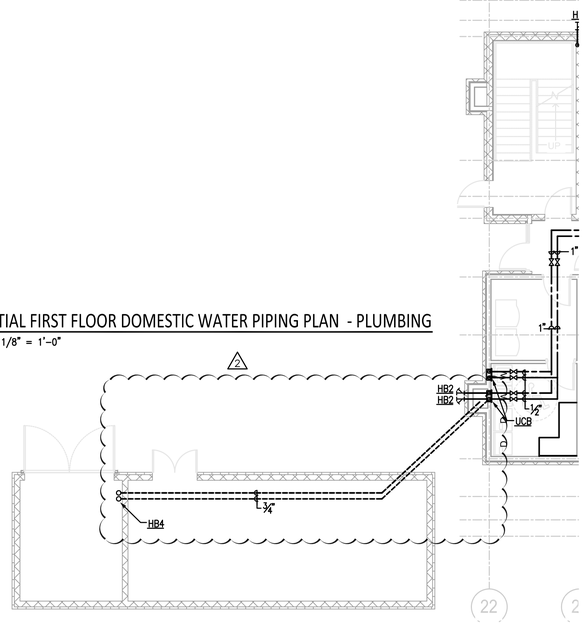
Phase
FOR CONSTRUCTION

Project No.	12-111
Prepared by	JCF
Checked by	WGA
Date	September 16, 2013

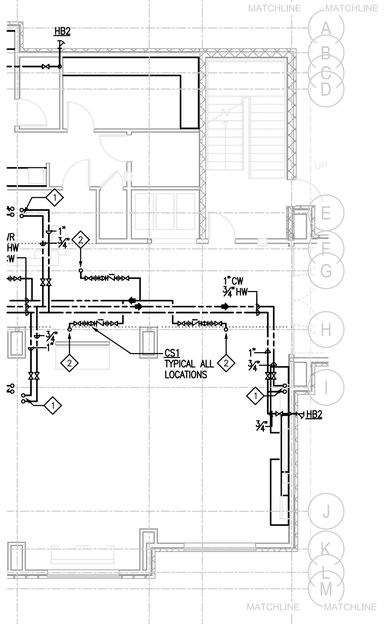
Released for

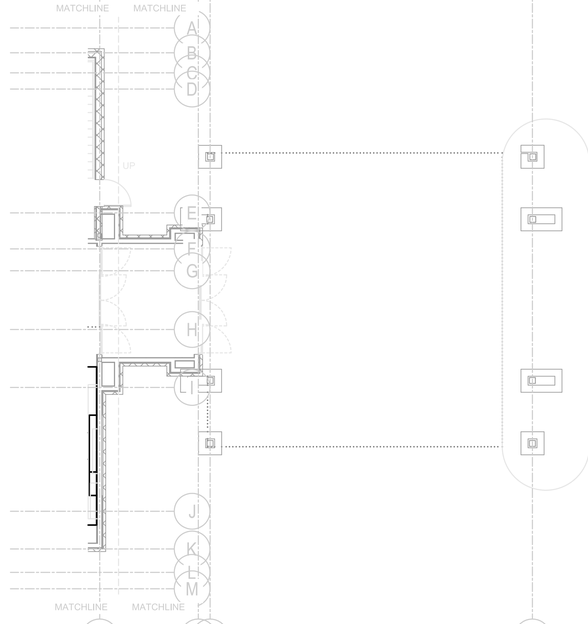
Sheet No.
P105

Hampton Inn and Suites

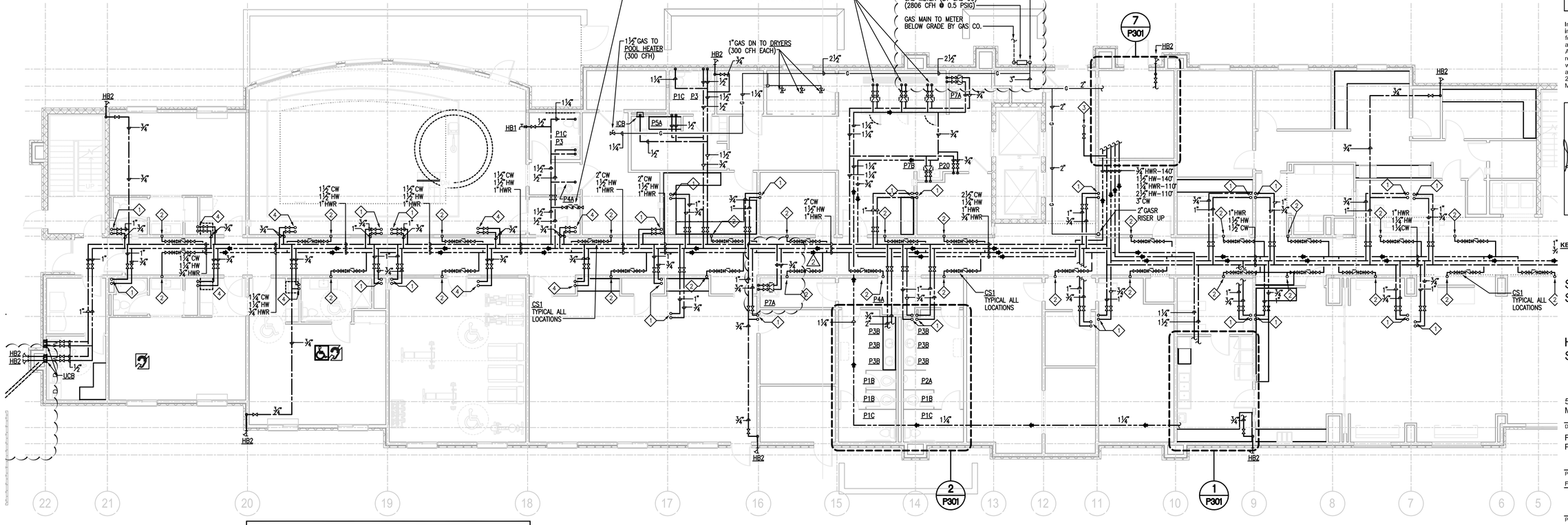


3 P201 PARTIAL FIRST FLOOR DOMESTIC WATER PIPING PLAN - PLUMBING
SCALE: 1/8" = 1'-0"





2 P201 PARTIAL FIRST FLOOR DOMESTIC WATER PIPING PLAN - PLUMBING
SCALE: 1/8" = 1'-0"



1. CW AND HW RISER FOR TOILET GROUP. SEE RISER SCHEMATICS ON SHEET P401
2. HWR RISER FOR TOILET GROUP. SEE RISER SCHEMATICS ON SHEET P401
3. CW RISER FOR VENDING AREA. SEE RISER SCHEMATICS ON SHEET P401
4. CW AND HW RISER FOR IN ROOM SINKS. SEE RISER SCHEMATICS ON SHEET P401

1 P101 FIRST FLOOR WATER SUPPLY PIPING PLAN - PLUMBING
SCALE: 1/8" = 1'-0"

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REVISIONS		
No.	Date	Description
1	11/21/13	Permit Comments
2	11/25/13	Franchise Comments

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN
License No. 33758
PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
11-25-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

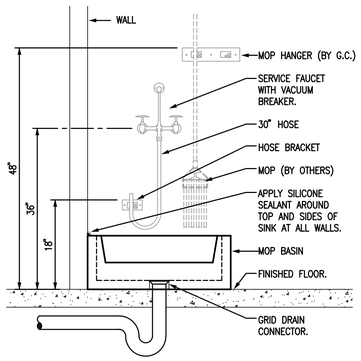
Drawing Title
First Floor, Water Supply Piping Plan - Plumbing

Phase
FOR CONSTRUCTION

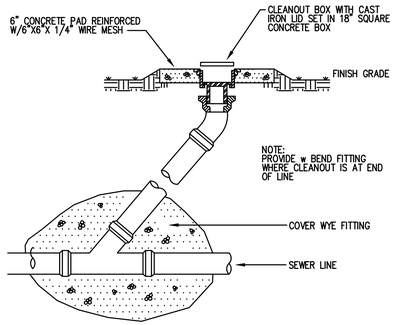
Project No.	12-111
Prepared by	JCF
Checked by	WGA
Date	September 16, 2013
Released for	

Sheet No.
P201

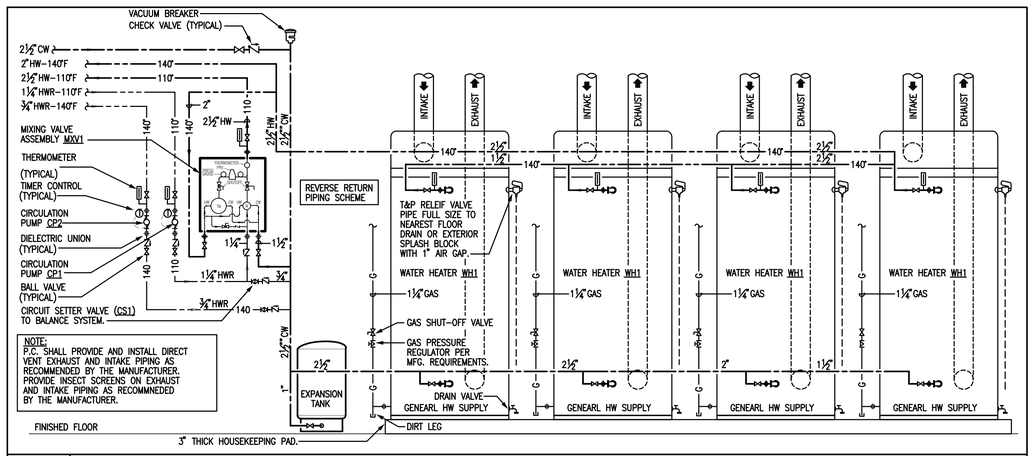
Hampton Inn and Suites



3	MOP SINK PIPING SCHEMATIC
P003	NO SCALE



2	YARD CLEANOUT SCHEMATIC
P003	NO SCALE



1	GAS FIRED WATER HEATING PIPING AND EQUIPMENT SCHEMATIC
P003	NO SCALE

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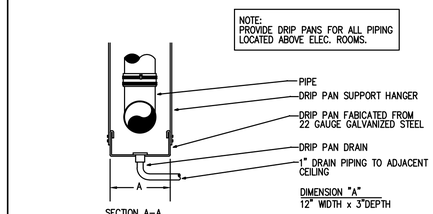
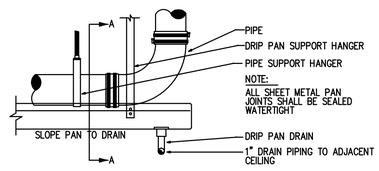
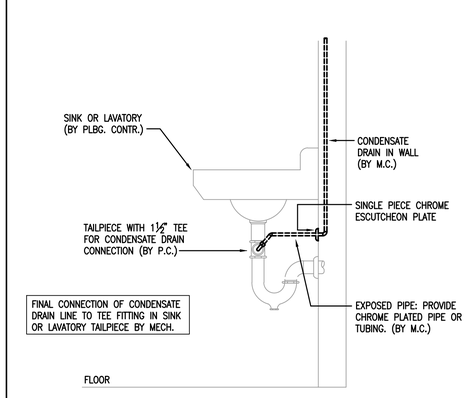
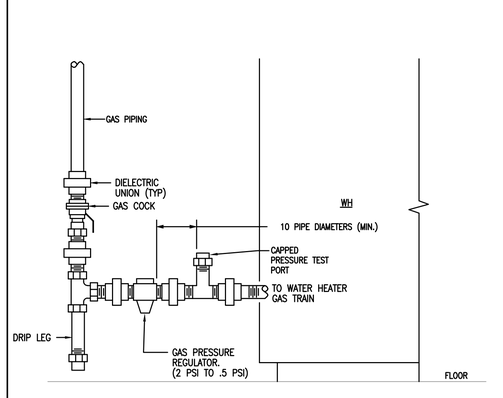




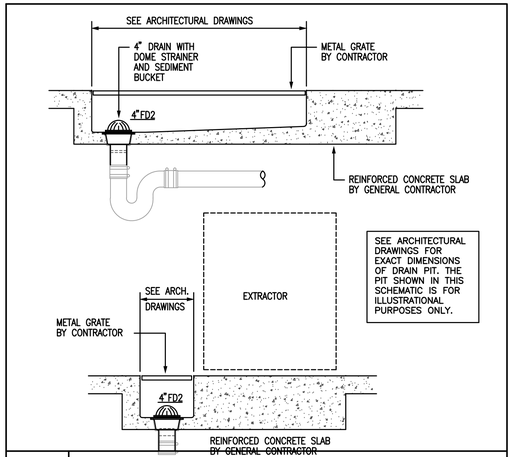
7	DRIP PAN SHEMATIC
P003	NO SCALE



6	CONDENSATE DRAIN CONNECTION
P003	NO SCALE

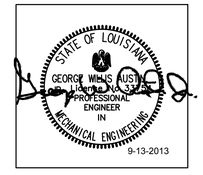


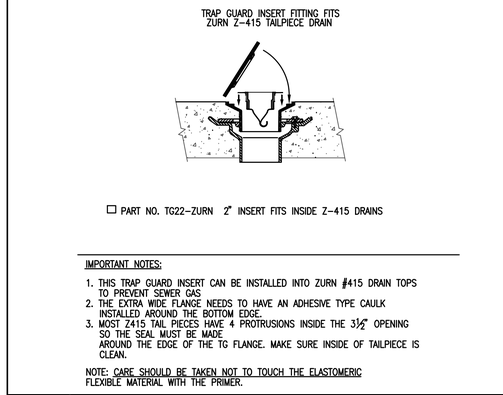
5	GAS SERVICE PRV PIPING SCHEMATIC
P003	NO SCALE



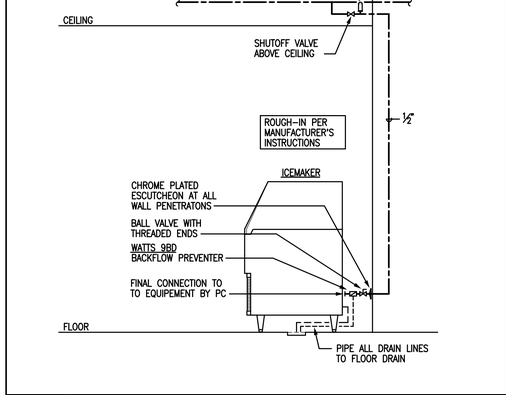
4	WASHER EXTRACTOR DRAIN SCHEMATIC
P003	NO SCALE

REVISIONS		
No.	Date	Description

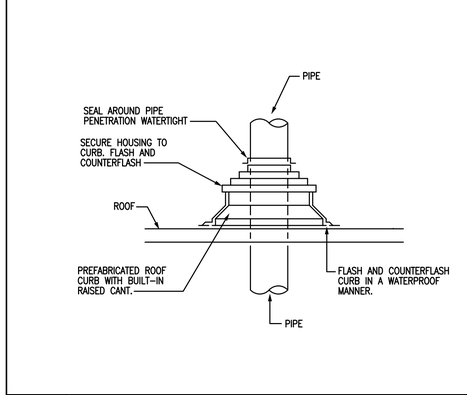




9	TRAP GUARD INSERT FOR FLOOR DRAINS
P003	NO SCALE



8	ICEMAKER PIPING SCHEMATIC
P003	NO SCALE



10	PIPE PORTAL DETAIL
P003	NO SCALE

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Details - Plumbing

Phase
FOR CONSTRUCTION

Project No.	12-111
Prepared by	JCF
Checked by	WGA
Date	September 16, 2013
Released for	

Sheet No. P003

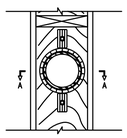
Hampton Inn and Suites

U.L. SYSTEM NO. FC2030

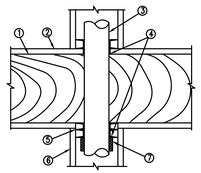
PLASTIC PIPE THROUGH 1–HR. WOOD FLOOR/FIRE RATED CHASE WALL ASSEMBLY

F RATING = 1–HR.
T RATING = 1–HR.

BOTTOM VIEW



SECTION A–A



1. U.L. CLASSIFIED L500 SERIES FIRE–RATED WOOD FLOOR ASSEMBLY.
2. LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD, OR FLOOR TOPPING MIXTURE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (SEE NOTE NO. 2):
   A. MAXIMUM 3" DIAMETER PVC PIPE (CELLULAR AND SOLID CORE).
   B. MAXIMUM 3" DIAMETER ABS PIPE (CELLULAR AND SOLID CORE).
   C. MAXIMUM 3" DIAMETER FRPP PIPE.
   D. MAXIMUM 3" DIAMETER CPVC PIPE.
4. FILL ANNULAR SPACE BETWEEN THE PIPE AND FLOORING AND BETWEEN PIPE AND TOP PLATE TO THE MAXIMUM EXTENT POSSIBLE USING HILTI FS–ONE FIRESTOP SEALANT.
5. TOP PLATE.
6. GYPSUM WALL ASSEMBLY (1–HR. FIRE–RATED)
7. HILTI CP 642 FIRESTOP COLLAR (SEE TABLE BELOW)

PIPE DIAMETER	PRODUCT DESCRIPTION	NO. OF MOUNTING TABS	MAX. HOLE SIZE	T RATING
1½"	CP 642 50/1.5"	2	2⅛"	1–HR.
2"	CP 642 63/2"	2	2⅝"	1–HR.
3"	CP 642 90/3"	3	4"	1–HR.

NOTES: 1. ANNULAR SPACE = MINIMUM ⅛", MAXIMUM ⅜".
2. CLOSED OR VENTED PIPING SYSTEM (ABS, PVC, FRPP = SCHEDULE 40, CPVC = SDR 17).

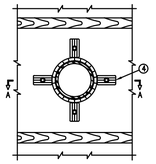
4 FIRE STOPPING DETAIL
NO SCALE

U.L. SYSTEM NO. FC2025

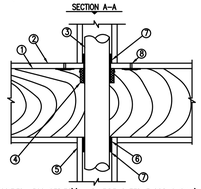
PLASTIC PIPE THROUGH 1–HR. OR 2–HR. WOOD FLOOR OR FIRE–RATED CHASE WALL ASSEMBLY

F RATING = 1–HR. AND 2–HR. (EQUAL TO RATING OF FLOOR ASEMBLY)
T RATING = 0, 1, 1½, AND 2–HR. (SEE TABLE BELOW)

BOTTOM VIEW



SECTION A–A



1. WOOD FLOOR ASEMBLY (U.L. CLASSIFIED L500 SERIES)(1–HR. FIRE–RATED FLOOR SHOWN).
2. LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD, OR FLOOR TOPPING MIXTURE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 4" DIAMETER PVC PIPE (CELLULAR AND SOLID CORE).
   B. MAXIMUM 4" DIAMETER CPVC PIPE.
   C. MAXIMUM 3" DIAMETER ABS PIPE (CELLULAR AND SOLID CORE).
   D. MAXIMUM 4" DIAMETER FRPP PIPE.
4. HILTI CP 642 FIRESTOP COLLAR (SEE TABLE BELOW)
5. GYPSUM WALL ASSEMBLY (1–HR. AND 2–HR. FIRE–RATING)(1–HR. SHOWN).
6. TOP PLATE.
7. SEE NOTE NO. 1 BELOW
8. WOOD SCREWS WITH WASHERS TO FASTEN EACH MOUNTING TAB.

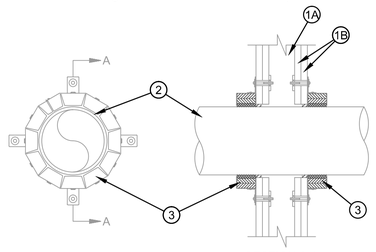
PIPE DIAMETER	PRODUCT DESCRIPTION	NO. OF MOUNTING TABS	MAX. HOLE SIZE	T–RATING (HR.)	
				1–HR. FLOOR	2–HR. FLOOR
1½"	CP 642 50/1.5"	2	2⅛"	1	2
2"	CP 642 63/2"	2	2⅝"	0	1½
3"	CP 642 90/3"	3	4"	0	1½
4"	CP 642 110/4"	4	5"	0	1½

NOTES: 1. PROVIDE ¼" DEPTH HILTI FS–ONE FIRESTOP SEALANT IN ANNULAR SPACE AROUND PIPE.
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM ½".
3. CLOSED OR VENTED PIPING SYSTEM. (ABS, PVC, AND FRPP = SCHEDULE 40, CPVC PIPE = SDR 17).

3 FIRE STOPPING DETAIL
NO SCALE

System No. W-L-2078

F Ratings— 1 and 2 Hr (See Item 1)
T Ratings— 0, 1 and 2 Hr (See Items 2 and 3)
L Rating At Ambient— 3 CFM/sq ft
L Rating At 400 F— Less Than 1 CFM/sq ft



SECTION A-A

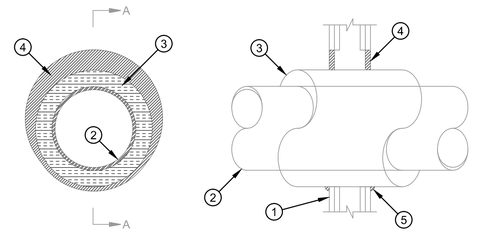
1. Wall Assembly— The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL fire Resistance Directory and shall include the construction features noted below:
   A. Studs— Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced max 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board* — Nom 5/8 in. thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 11-1/2 in.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through-Penetrants— One nonmetallic pipe, conduit or tubing to be installed within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe— Nom 10 in. diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe— Nom 10 in. diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
   C. Acrylonitrile Butadiene Styrene (ABS) Pipe— Nom 6 in. diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems
   D. Flame Retardant Polypropylene (FRPP) Pipe— Nom 6 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   E. Polyvinylidene Fluoride (PVDF) Pipe— Nom 4 in. diam (or smaller) PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   When max 6 in. diam pipe is used, T Rating is equal to the hourly fire rating of the wall. When nom 8 in. or 10 in. diam pipe is used, T Rating is 0 hr.
3. Firestop Device*— Firestop Collar— Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to both sides of the wall using the anchor hooks provided with the collar. (Minimum two anchor hooks for 1-1/2 and 2 in. diam pipes, three anchor hooks for 3 and 4 in. diam pipes, four anchor hooks for 6 in. diam pipes, ten anchor hooks for 8 in. diam pipes and twelve anchor hooks for 10 in. diam pipes) . The anchor hooks are to be secured to the surface of wall with 3/16 in. diam by 2-1/2 in. long steel toggle bolts along with washers. As an alternate for pipe sizes of nom 4 in. diam or less, min No. 10 by 1-1/2 in. long drywall or laminate screws with min 3/4 in. steel washers may be used. When the drywall or laminate screw is used, T Rating shall not exceed 1 hr.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC— CP 643 50/1.5"N, CP 643 63/2"N, CP 643 90/3"N, CP 643 110/4"N, CP 643 160/6"N, CP 644 200/8" andCP 644 250/10" Firestop Collars
4. Fill, Void or Cavity Material* — Sealant - (Not Shown) — Min 1/2 in. thickness of sealant applied within the annular space for nom 8 in. and 10 in. diam pipes, flush with each side of wall. Sealant in annular space is optional for max 6 in. diam pipes. A min 1/4 in. thickness of sealant is required within the annular space, flush with each side of wall, to attain the L Ratings for max 6 in. diam pipes.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC— FS-One Sealant
*Bearing the UL Classification Mark

C UL US

2 FIRE STOPPING DETAIL
NO SCALE

System No. W-L-5029

F Ratings— 1 and 2 Hr (See Item 1)
T Ratings— 1/2, 3/4, 1, 1-1/2 and 1-3/4 Hr (See Item 3)
L Rating At Ambient— 4 CFM/Sq Ft
L Rating At 400 F— Less Than 1 CFM/Sq Ft



SECTION A-A

1. Wall Assembly— The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs 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 nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board* — 5/8 in. thick, 4 ft wide, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants— One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe— Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe— Nom 12 in. diam (or smaller) cast or ductile iron pipe.
   C. Copper Tubing— Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   D. Copper Pipe— Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
3. Pipe Covering*— Nom 1, 1-1/2 or 2 in. thick hollow cylindrical heavy density (min 3.5 pcf) 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.
   See Pipe and Equipment Covering— Materials (BRGU) category in the Building Material Directory for the 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.
   The hourly T Rating of the firestop system is dependent on the hourly fire rating of the wall assembly in which it is installed, the size and type of through penetrant and the pipe covering thickness, as shown in the table below:

Wall Assembly Rating Hr	Through Penetrant		Pipe Covering Thkns In.	Annular Space		T Rating Hr
	Type +	Max Diam In.		Min In.	Max In.	
1	A	4	1	0	1-1/2	1/2
1	B or C	2	1 or 1-1/2	0	1-1/2	1/2
1	A	4	1-1/2	0	1-1/2	1
1	A	12	2	0	1-7/8	3/4
1	B or C	6	2	0	1-7/8	1
2	A	4	1	0	1-1/2	1
2	B or C	4	1 or 1-1/2	0	1-1/2	1
2	B or C	6	2	0	1-7/8	1
2	A	4	1-1/2	0	1-1/2	1-3/4
2	A	12	2	0	1-7/8	1-1/2
2	B or C	6	2	0	1-7/8	1

+Indicates penetrant type as itemized in Item 2.

3A. Pipe Covering* — (Not Shown) — As an alternate to Item 3, max 2 in. thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 8 AWG stainless steel wire spaced max 12 in. OC. When the alternate pipe covering is used, the T Rating shall be determined from the table above.
   See Pipe and 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— Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall . At the point contact location between pipe covering and gypsum board, a min 1/2 in. diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC— FS-One Sealant
*Bearing the UL Classification Mark

C UL US

1 FIRE STOPPING DETAIL
NO SCALE

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SEG - 13-039

REVISIONS		
No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN
No. 34306
PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING

9-13-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

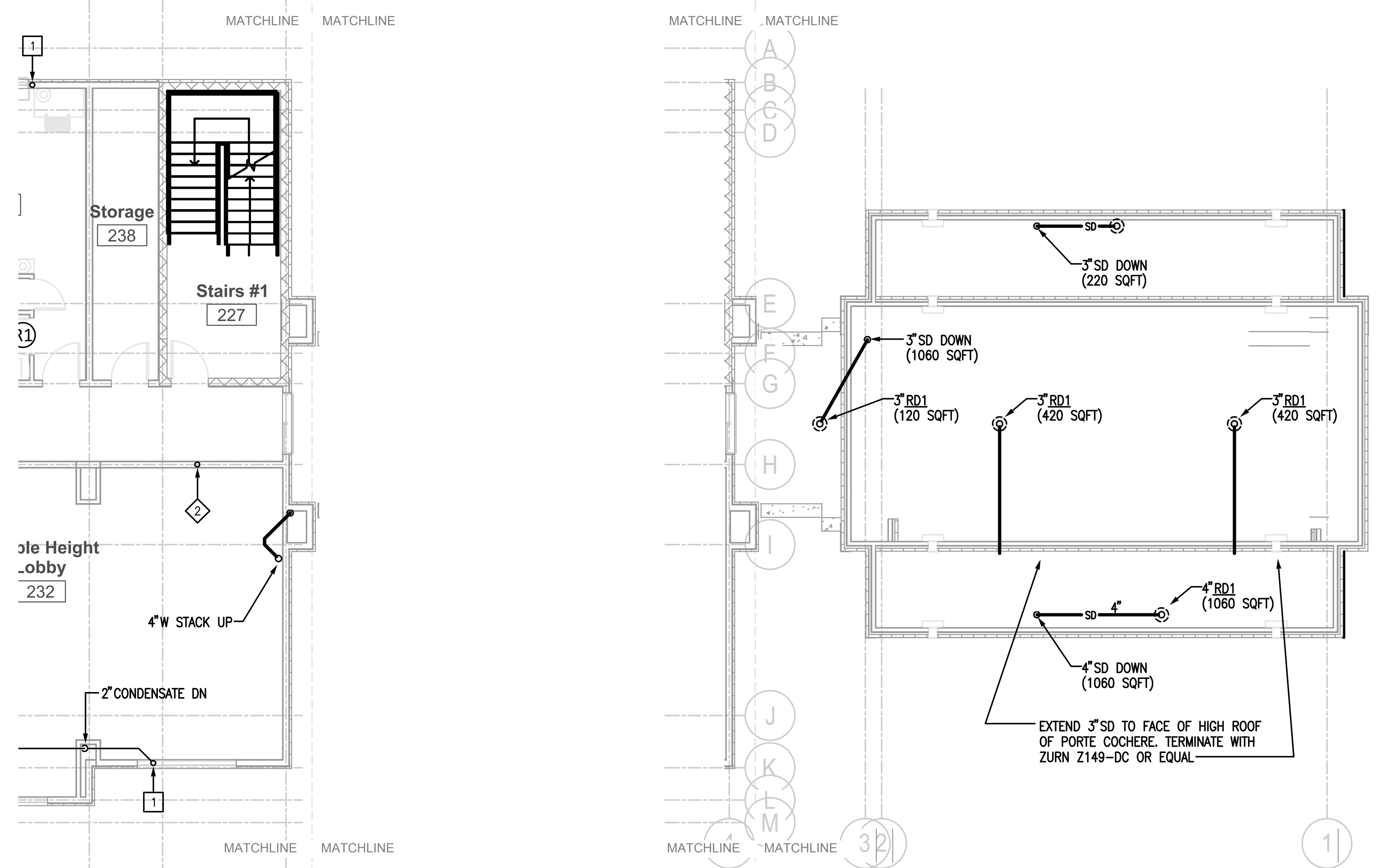
Drawing Title
Details - Plumbing

Phase
FOR CONSTRUCTION

Project No. 12-111
Prepared by JCF
Checked by WGA
Date September 16, 2013
Released for

Sheet No. P004

Hampton Inn and Suites

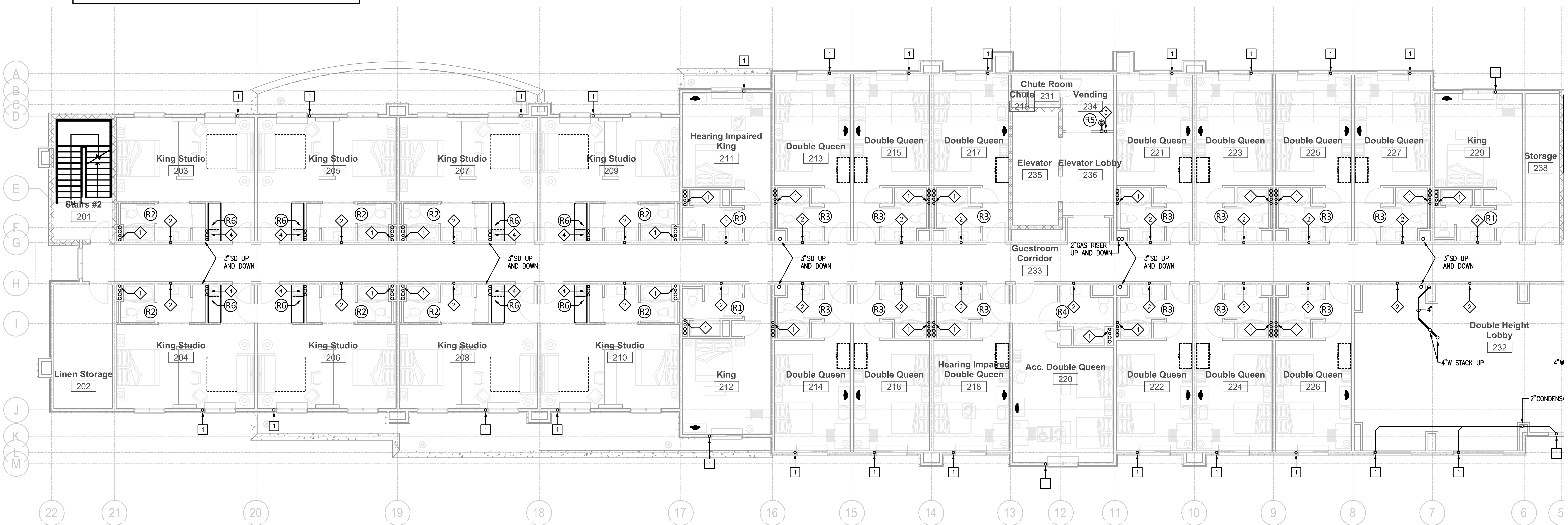


2 PARTIAL SECOND FLOOR WASTE AND VENT PIPING PLAN - PLUMBING
P102 SCALE: 1/8" = 1'-0"

- ◇1 CW AND HW RISER FOR TOILET GROUP. SEE RISER SCHEMATICS ON SHEET P401
- ◇2 HWR RISER FOR TOILET GROUP. SEE RISER SCHEMATICS ON SHEET P401
- ◇3 CW RISER FOR VENDING AREA. SEE RISER SCHEMATICS ON SHEET P401
- ◇4 CW AND HW RISER FOR IN ROOM SINKS. SEE RISER SCHEMATICS ON SHEET P401

☐1 CONDENSATE RISER FOR IN ROOM PTAC UNITS. PROVIDE 1¼" TEE AT EACH FLOOR FOR MECHANICAL CONDENSATE DISCHARGE CONNECTION. CONDENSATE RISER 1½" UNLESS OTHERWISE NOTED.

(R#) SEE WASTE AND VENT RISER SCHEMATICS ON SHEET P401



1 SECOND FLOOR PLAN - PLUMBING
P102 SCALE: 1/8" = 1'-0"

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REVISIONS

No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN
License No. 33?
PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
9-13-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Second Floor, Waste and Vent Piping Plan - Plumbing

Phase
FOR CONSTRUCTION

Project No.	12-111
Prepared by	JCF
Checked by	WGA
Date	September 16, 2013
Sheet No.	P102

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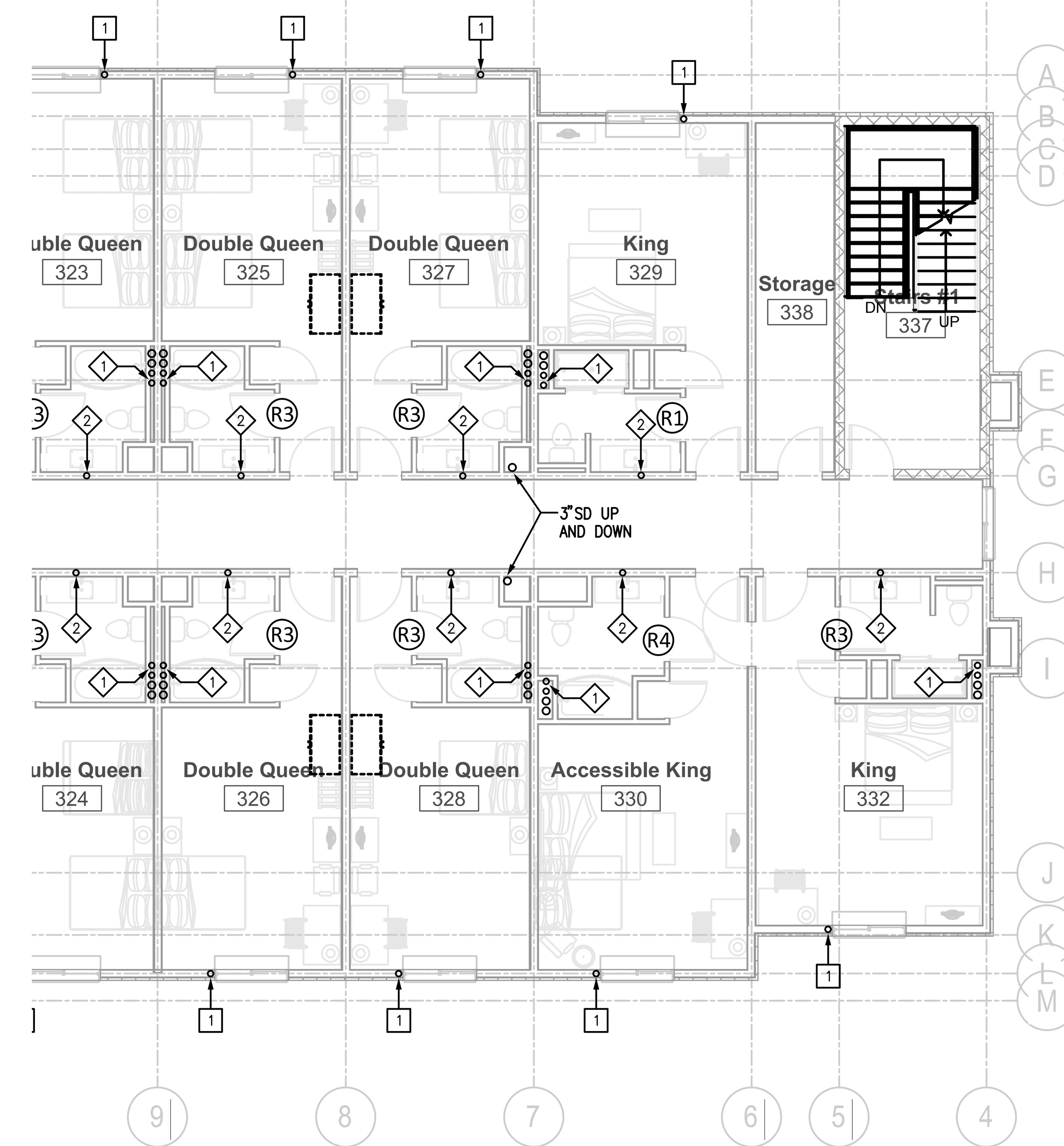
Hampton Inn and Suites

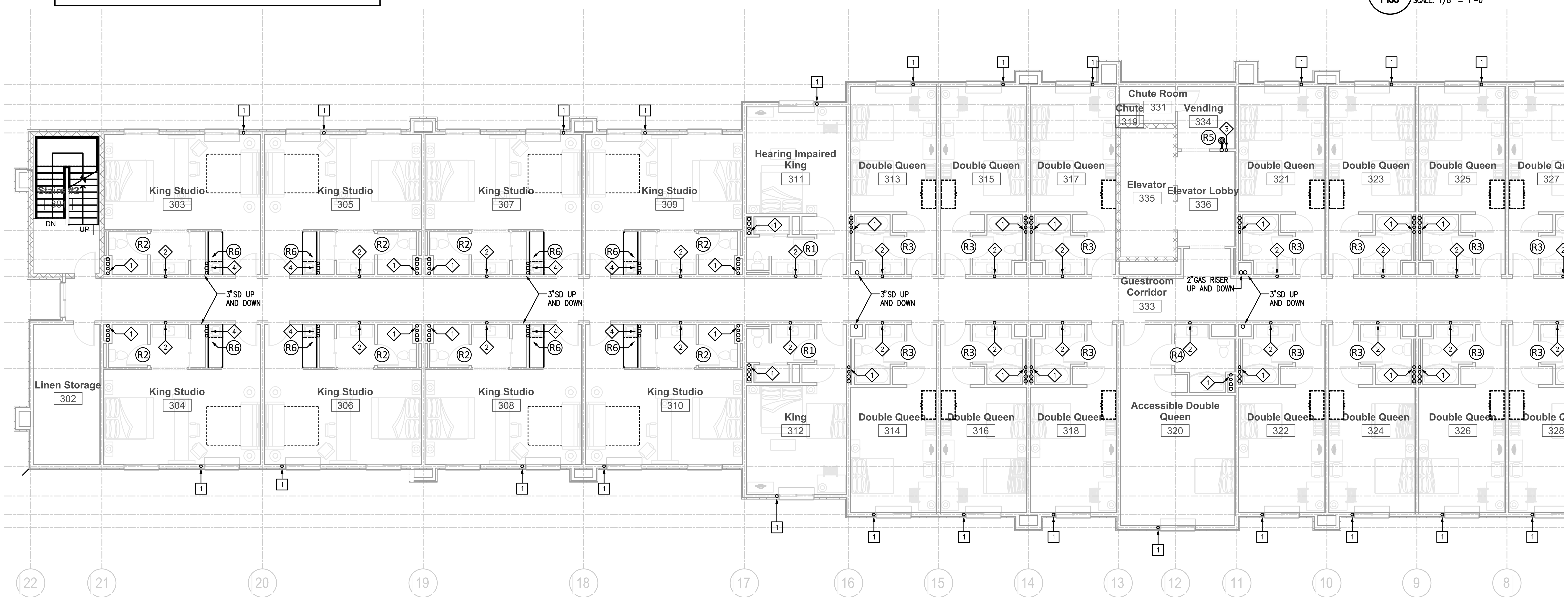


2 PARTIAL THIRD FLOOR PLAN - PLUMBING
P103 SCALE: 1/8" = 1'-0"

1 CW AND HW RISER FOR TOILET GROUP. SEE RISER SCHEMATICS ON SHEET P401
2 HWR RISER FOR TOILET GROUP. SEE RISER SCHEMATICS ON SHEET P401
3 CW RISER FOR VENDING AREA. SEE RISER SCHEMATICS ON SHEET P401
4 CW AND HW RISER FOR IN ROOM SINKS. SEE RISER SCHEMATICS ON SHEET P401

1 CONDENSATE RISER FOR IN ROOM PTAC UNITS. PROVIDE 1¼" TEE AT EACH FLOOR FOR MECHANICAL CONDENSATE DISCHARGE CONNECTION. CONDENSATE RISER 1½" UNLESS OTHERWISE NOTED.

R# SEE WASTE AND VENT RISER SCHEMATICS ON SHEET P401



1 PARTIAL THIRD FLOOR PLAN - PLUMBING
P103 SCALE: 1/8" = 1'-0"

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REVISIONS

No.	Date	Description

STATE OF LOUISIANA
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9-13-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Third Floor, Waste and Vent Piping Plan - Plumbing

Phase
FOR CONSTRUCTION

Project No.	12-111
Prepared by	JCF
Checked by	WGA
Date	September 16, 2013
Sheet No.	P103

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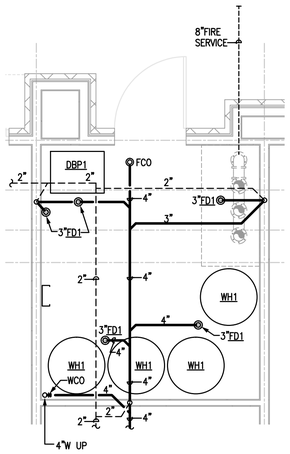
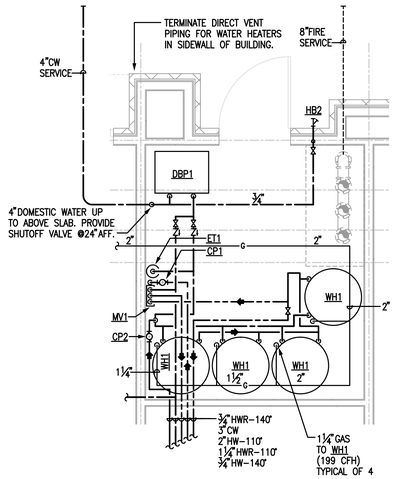
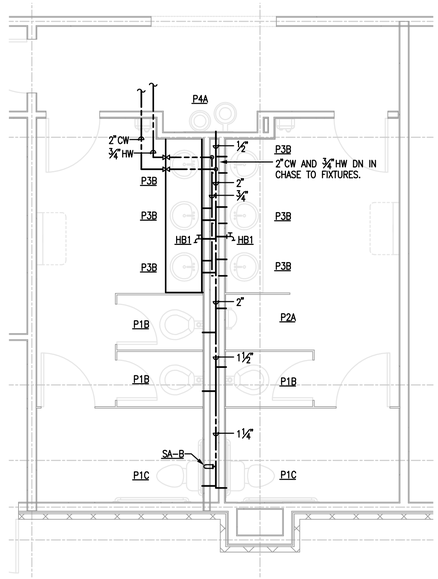
Hampton Inn and Suites



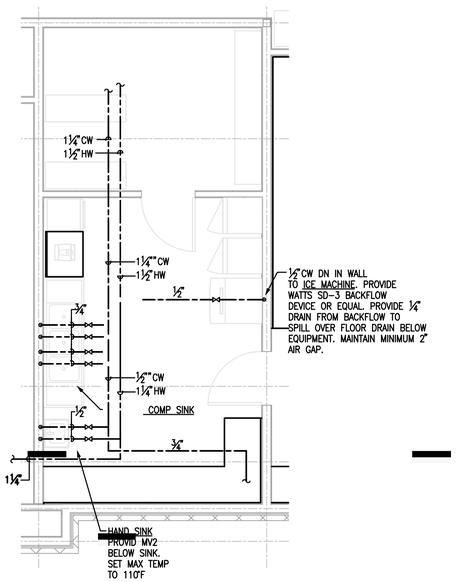
8 P301 ENLARGED DOUBLE QUEEN PLAN - PLUMBING
SCALE: 1/4" = 1'-0"



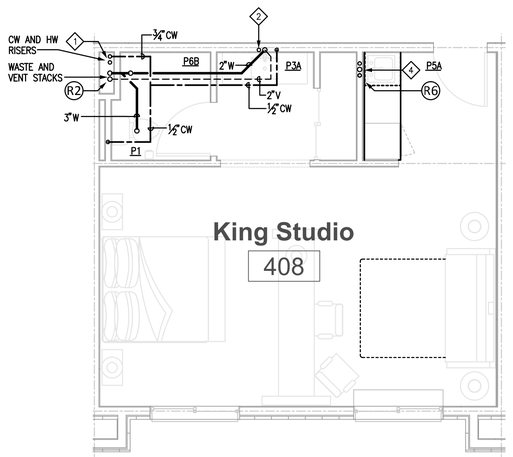
7 P301 ENLARGED DOUBLE QUEEN PLAN - PLUMBING
SCALE: 1/4" = 1'-0"



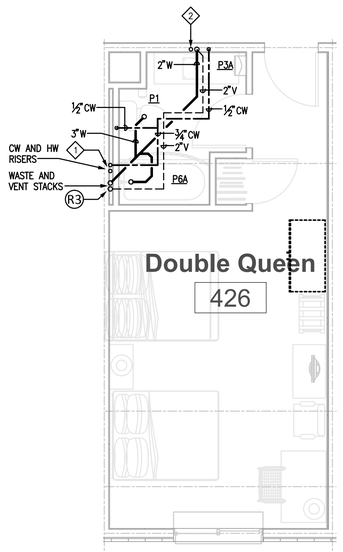
6 P301 ENLARGED KING PLAN - PLUMBING
SCALE: 1/4" = 1'-0"



5 P301 ENLARGED A ...IBLE KING PLAN - PLUMBING
SCALE: 1/4" = 1'-0"



4 P301 ENLARGED KING STUDIO PLAN - PLUMBING
SCALE: 1/4" = 1'-0"



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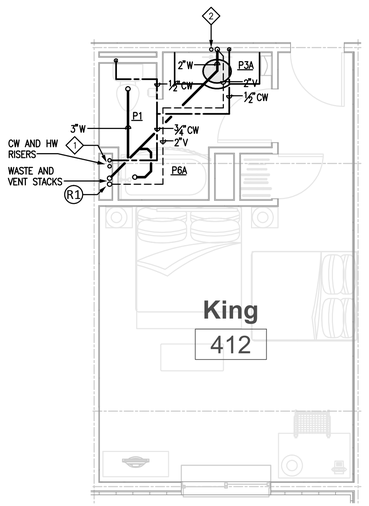
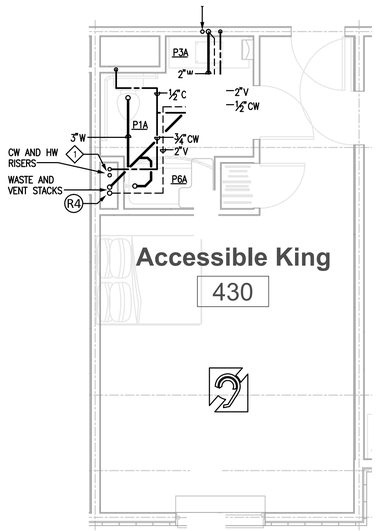


2 P301 ENLARGED KING PLAN - PLUMBING
SCALE: 1/4" = 1'-0"



1 P301 ENLARGED A(...SIBLE KING PLAN - PLUMBING
SCALE: 1/4" = 1'-(

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REVISIONS		
No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN
PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
9-13-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Enlarged Plans - Plumbing

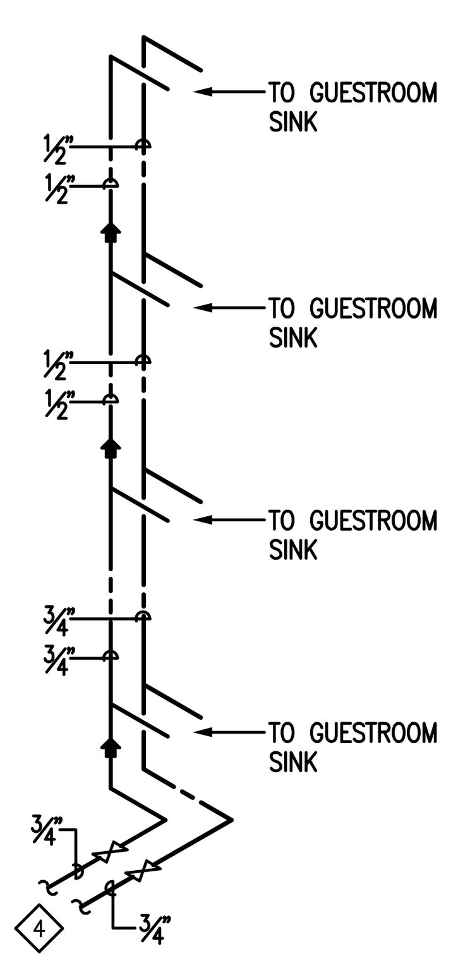
Phase
FOR CONSTRUCTION

Project No.	12-111
Prepared by	JCF
Checked by	WGA
Date	September 16, 2013

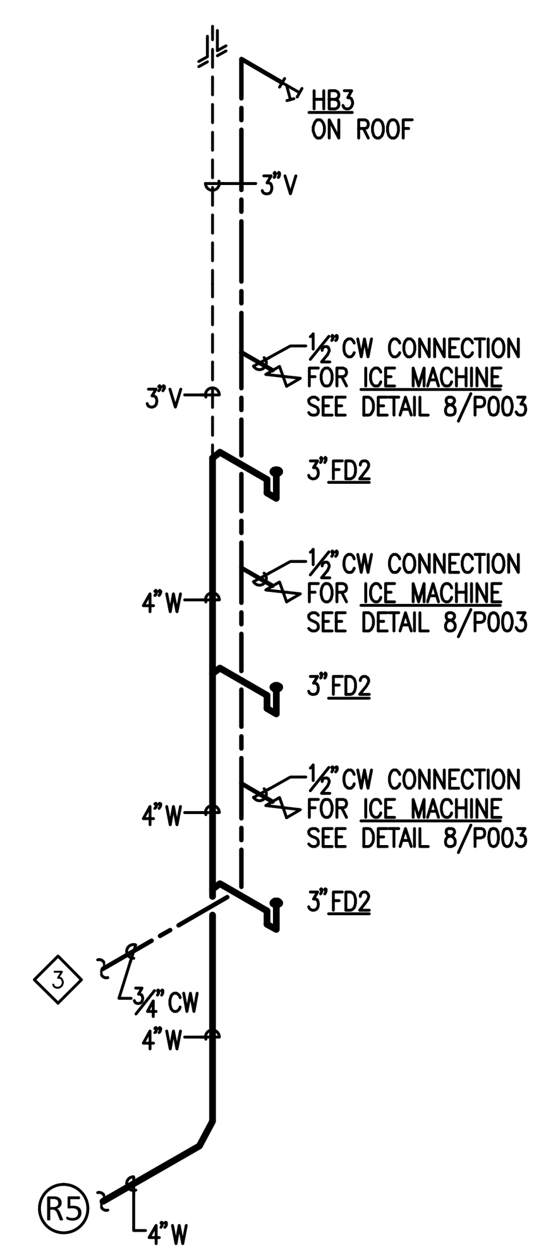
Sheet No.
P301

Released for

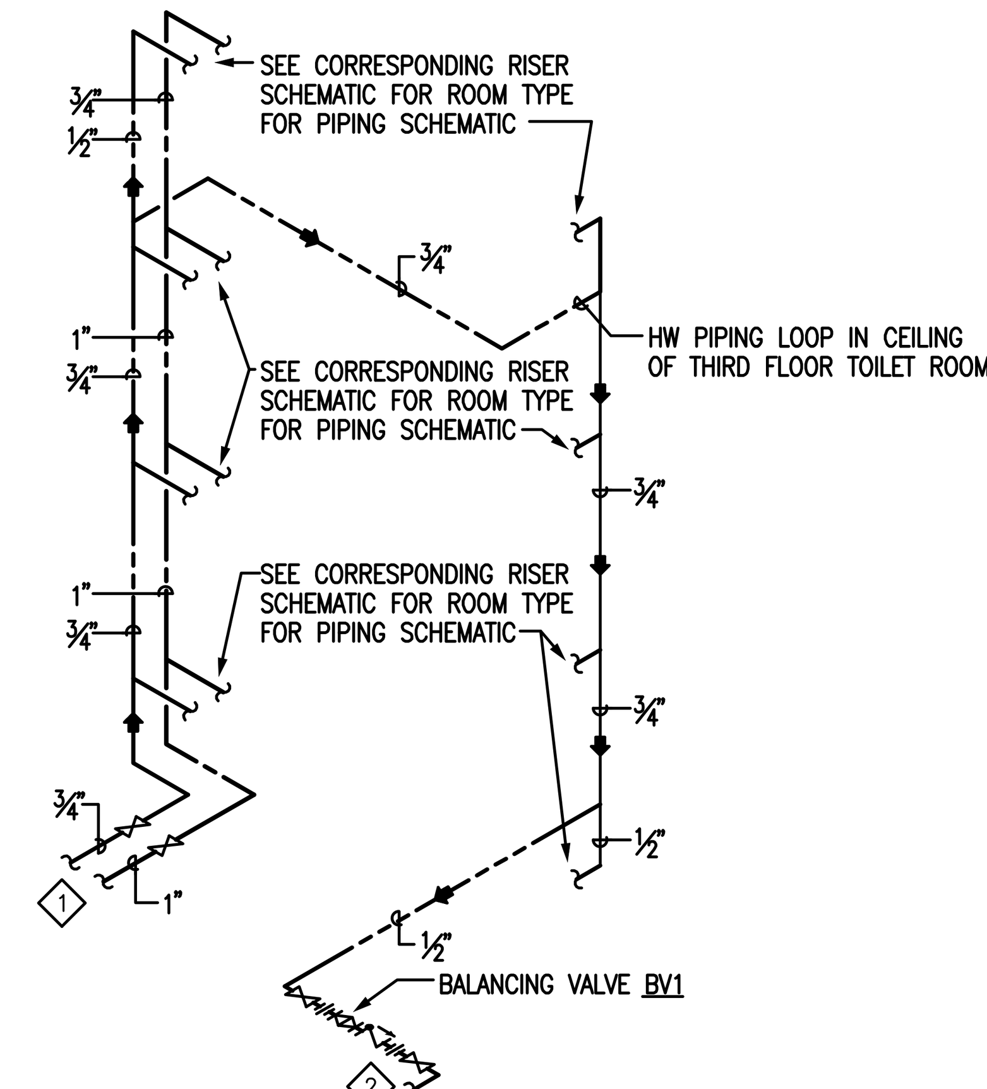
Hampton Inn and Suites



4 TYPICAL CW/HW/HWR PIPING SCHEMATIC - PLUMBING
P401 SCALE: N.T.S.



3 TYPICAL CW/HW/HWR PIPING SCHEMATIC - PLUMBING
P401 SCALE: N.T.S.



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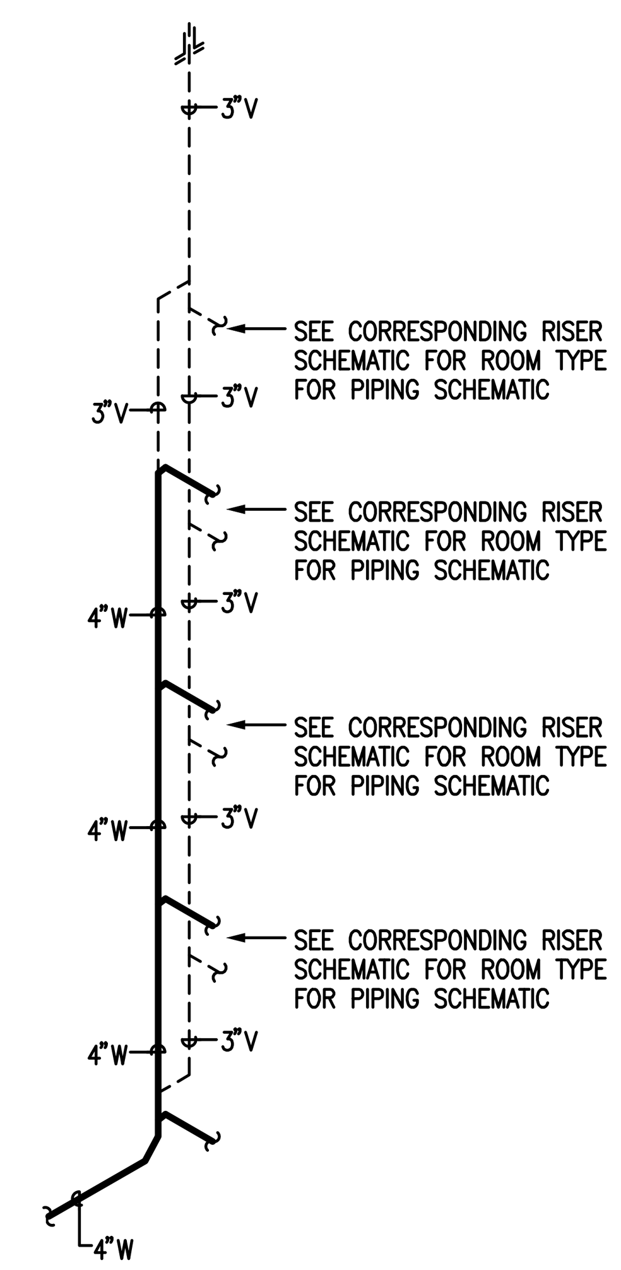
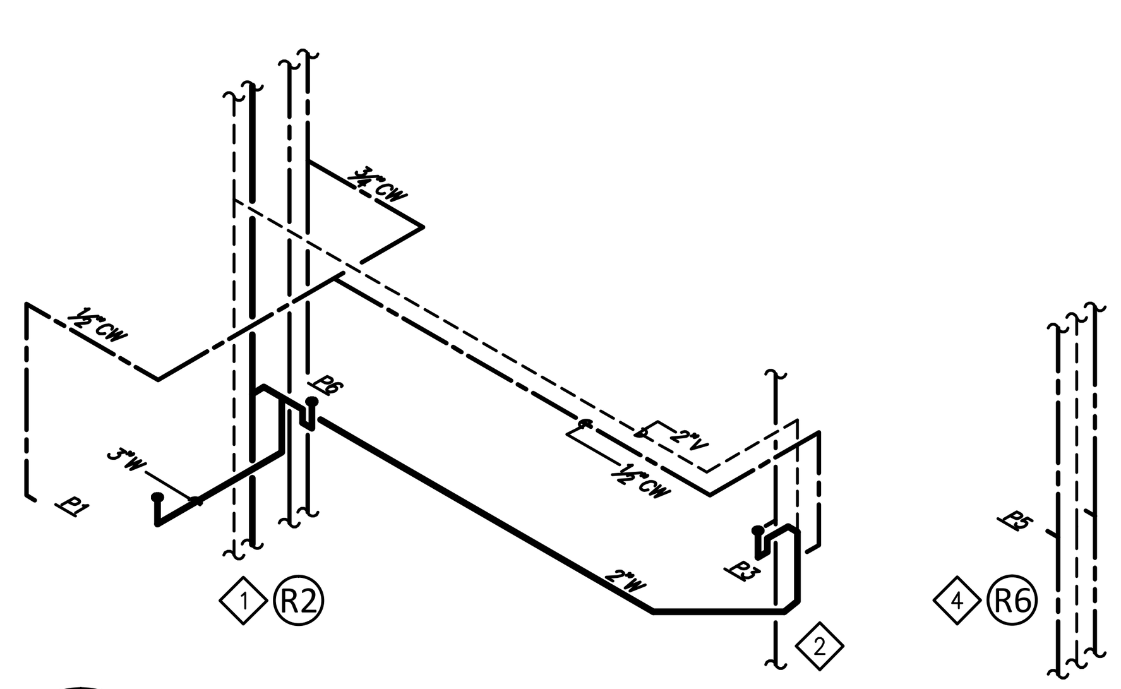
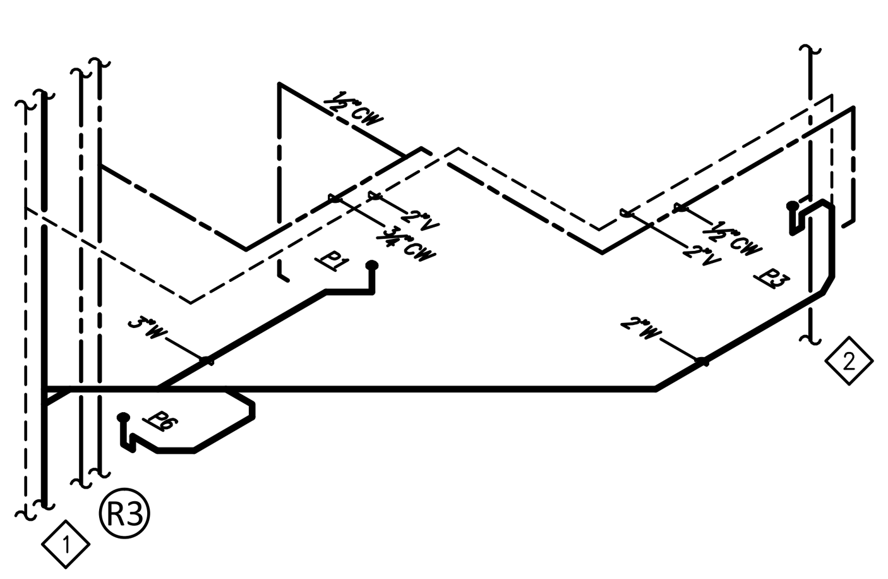
P401 SCALE: N.T.S.



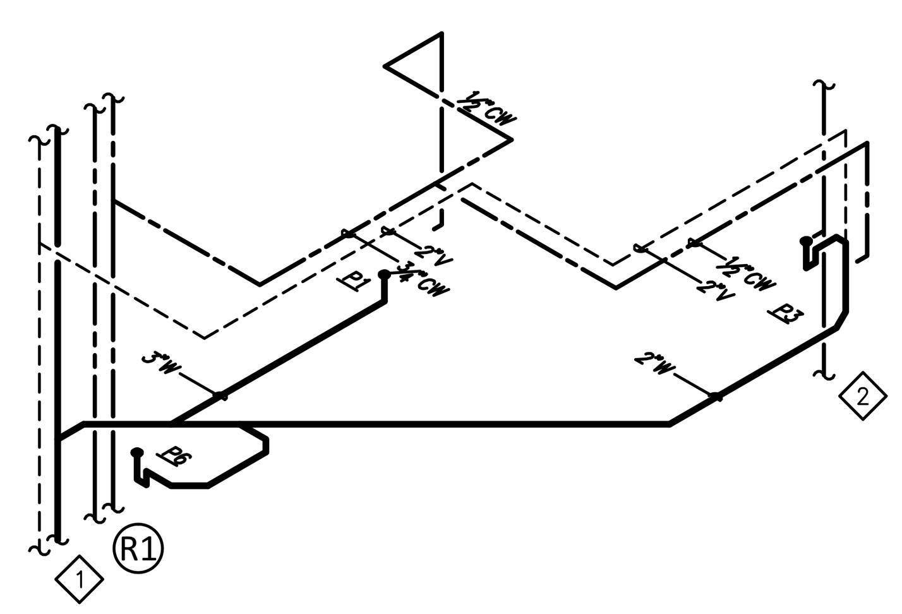
1 TYPICAL WASTE AND VENT RISER SCHEMATIC - PLUMBING
P401 SCALE: N.T.S.



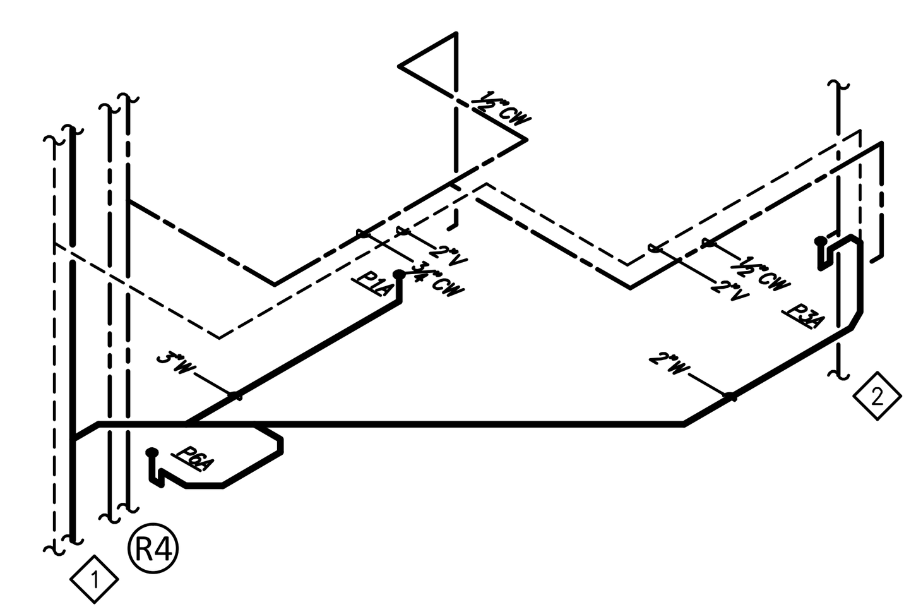
R2 RISER R4 PIPING SCHEMATIC - KING STUDIO PLAN
P401 SCALE: N.T.S.



R3 RISER R4 PIPING SCHEMATIC - DOUBLE QUEEN PLAN
P401 SCALE: N.T.S.



R1 RISER R4 PIPING SCHEMATIC - ENLARGED KING PLAN
P401 SCALE: N.T.S.



R4 RISER R4 PIPING SCHEMATIC - ENLARGED ACC. KING PLAN
P401 SCALE: N.T.S.

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REVISIONS		
No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN
License No. 33236
PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
9-13-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Riser Schematics - Plumbing

Phase
FOR CONSTRUCTION

Project No. 12-111
Prepared by JCF
Checked by WGA
Date September 16, 2013

Sheet No.
P401

Hampton Inn and Suites

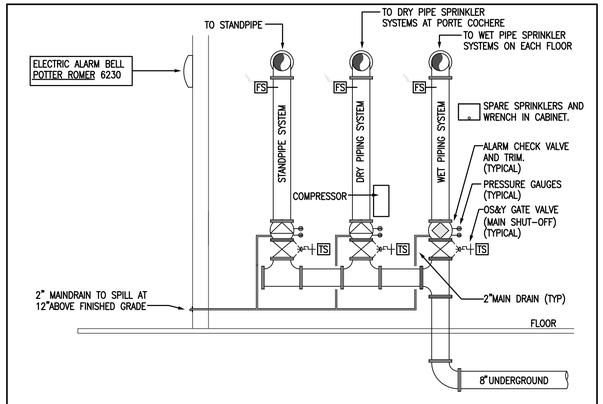
Released for

FIRE PROTECTION LEGEND

EXISTING PIPING	NEW PIPING	ABBR.	DESCRIPTION
FIRE MAIN	FIRE MAIN	–	FIRE MAIN BELOW GRADE/SLAB
FIRE MAIN	FIRE MAIN	–	FIRE MAIN/SUPPLY ABOVE CEILING
(E)		–	EXISTING PIPING TO BE REMOVED
		–	ELBOW DOWN
		–	ELBOW UP
		–	PIPE CONTINUES
		–	PIPE CAP
		–	DIRECTION OF FLOW
	TS	–	TAMPER SWITCH
	FS	–	FLOW SWITCH

ADDITIONAL ABBREVIATIONS

ABV	ABOVE	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	MBH	1,000 BTUH
BAS	BUILDING AUTOMATION SYSTEM	MH	MOUNTING HEIGHT
BEL	BELOW	PH	PHASE
BFF	BELOW FINISHED FLOOR	PSI	POUNDS PER SQUARE INCH
CLG	CEILING	SF	SQUARE FEET
CONT	CONTINUATION	T&P	TEMPERATURE AND PRESSURE
DN	DOWN	TYP	TYPICAL
EX	EXISTING	VLV	VALVE
FFE	FINISHED FLOOR ELEVATION	WC	WATER COLUMN
FIN	FINISH		
FL	FLOOR	EC	ELECTRICAL CONTRACTOR
FR	FROM	GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE	MC	MECHANICAL CONTRACTOR
HP	HORSE POWER	PC	PLUMBING CONTRACTOR
		FPC	FIRE PROTECTION CONTRACTOR



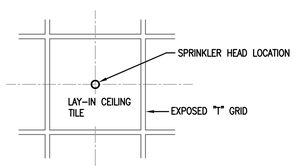
1	FIRE PUMP RISER SCHEMATIC
FP0.0.01	NO SCALE

FLOW TEST INFORMATION

FLOW TEST DATE: 4-22-2013
TEST CONDUCTED BY: ANTONIO DENNIS AND JERRY BELTON
LOCATION: AT OR AROUND SAM'S CLUB, 5400 FRONTAGE RD

WATER MAIN SIZES: 8" & 12"
STATIC PRESSURE: 60 PSIG
RESIDUAL PRESSURE: 45 PSIG
PITOT: 30
GPM: 920

FP CONTRACTOR SHALL PROVIDE, A 750 GPM FIRE PUMP, IF REQUIRED. FP CONTRACTOR TO DETERMINE NEED PRIOR TO BIDDING DOCUMENTS.



2	SPRINKLER HEAD LOCATION IN CEILING GRID
FP001	NO SCALE

FIRE PROTECTION SYSTEMS

DESCRIPTION OF WORK:

1. THE FIRE PROTECTION CONTRACTOR SHALL DESIGN, FABRICATE, INSTALL AND SECURE REQUIRED APPROVALS FOR A COMPLETE FIRE PROTECTION AUTOMATIC SPRINKLER AND STANDPIPE SYSTEM WHERE SHOWN ON THE CONTRACT DOCUMENTS, AND AS NEEDED FOR A COMPLETE AN PROPER INSTALLATION IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO OSFM, NFPA AND LOCAL GOVERNMENTAL AGENCIES HAVING JURISDICTION.
2. SCOPE OF WORK INCLUDES PROVIDING DESIGNING SERVICES; COMPLETE AND COORDINATED DRAWINGS OF THE PROPOSED FP EQUIPMENT AND SYSTEMS, FURNISHING ALL LABOR, MATERIAL, EQUIPMENT, FIRE PUMP (IF REQUIRED, SEE FLOW TEST INFORMATION THIS SHEET) AND INSTALLATION AS REQUIRED FOR A FULLY OPERATIONAL FIRE PROTECTION SYSTEM AS DESCRIBED WITHIN THE CONTRACT DOCUMENTS AND SPECIFICATIONS. SCOPE OF WORK SHALL INCLUDE BUT NOT LIMITED TO: AUTOMATIC WET PIPE SPRINKLER SYSTEM, UNDERGROUND FIRE MAINS, STANDPIPE SYSTEMS, DRY PIPE SPRINKLER SYSTEMS, FIRE PUMPS.
3. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE INSTALLATION OF FIRE PROTECTION SYSTEMS AND EQUIPMENT WITH THAT OF THE OTHER TRADES SO THAT ALL WORK WILL BE PERFORMED IN AN ORDERLY MANNER AND WITH THE LEAST POSSIBLE INTERFERENCE.

PROJECT RECORD DRAWINGS:

1. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE TO THE ENGINEER FOR REVIEW SIX (6) COPIES OF REQUIRED SUBMITTALS IN ACCORDANCE WITH NFPA "WORKING DRAWINGS". ALL CATALOG DATA, SHOP DRAWINGS, HYDRAULIC CALCULATIONS, AND APPROVAL FROM LOCAL AHJ (FIRE MARSHAL) SHALL BE SUBMITTED AS A SINGLE PACKAGE. SUBMITTALS SHALL CLEARLY AND COMPLETELY DESCRIBE THE SPECIFIC PRODUCT(S) THEY REPRESENT. DRAWINGS AND PLANS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER, AND BEAR THE SIGNATURE AND SEAL REPRESENTING THE STATE IN WHICH THE PROJECT IS CONSTRUCTED.
2. PRIOR TO HYDRAULIC CALCULATIONS, THE CONTRACTOR SHALL OBTAIN FIRE FLOW DATA (GPM AND PRESSURE) FROM THE NEAREST HYDRANT(S). FLOW TEST INFORMATION SHALL BE WITHIN ONE YEAR OF PROJECT COMPLETION. DUE TO CONSTRUCTION LENGTH, MULTIPLE FLOW TESTS MAY BE REQUIRED TO FULLFILL THIS REQUIREMENT.
3. NO WORK SHALL COMMENCE PRIOR TO SHOP DRAWING APPROVAL.

CODES, REGULATIONS AND PRACTICES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION (AHJ), INCLUDING THOSE OF ALL APPLICABLE CITY, COUNTY, STATE, FEDERAL AND PUBLIC ENTITIES. ALL LICENSES, PERMITS, AND FEES SHALL BE OBTAINED BY THE CONTRACTOR AND THE COST SHALL BE INCLUDED IN THE CONTRACT PRICE.
2. THE MINIMUM STANDARD OF WORK UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE FOLLOWING: ALL APPLICABLE SECTIONS OF NFPA 13, 14, 20, 25, NATIONAL ELECTRIC CODE, UNDERWRITERS LABORATORY (UL) "FIRE EQUIPMENT LIST", ALL STATE, FEDERAL, COUNTY OR MUNICIPAL CODE AS APPLICABLE BY AHJ.

MATERIALS AND EQUIPMENT:

1. SEE CONTRACT DOCUMENTS FOR COMPLETE LIST OF REQUIREMENTS. BOTH THE DRAWINGS AND SPECIFICATIONS SHALL BE UTILIZED. IF ANY DISCREPANCIES BETWEEN THE TWO ON ANY SPECIFIC ITEM OR REQUIREMENT ARISES, THE MOST STRINGENT SHALL APPLY. NO EXCEPTIONS.
2. ALL MATERIALS USED ON FIRE PROTECTION SYSTEMS SHALL MEET THE REQUIREMENTS OF APPLICABLE CODES, STANDARDS, AND REQUIREMENTS OF THE AHJ AND THE OWNER'S INSURANCE UNDERWRITER.
3. PIPE AND FITTINGS BELOW GRADE: DUCTILE IRON IN ACCORDANCE WITH AWWA C151. TIE RODS AND THRUST BLOCKS SHALL MEET NFPA 24. FITTINGS SHALL BE DUCTILE IRON MEETING AWWA C153. WORKING PRESSURE SHALL BE 350 PSIG.
4. PIPE AND FITTINGS ABOVE GRADE: BLACK STEEL IN ACCORDANCE WITH ASTM A53, ASTM A135 OR ASTM A75. PIPING 2½" AND LARGER SHALL BE SCH 10, PIPING 2" AND SMALLER SHALL BE SCH 40. FITTINGS SHALL BE UL LISTED. GROOVED FITTINGS SHALL BE UL LISTED AND IN ACCORDANCE WITH ASTM A536.

SEISMIC RESTRAINTS:

1. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO DETERMINE SITE CLASSIFICATION AND SEISMIC REQUIREMENTS FOR THIS PROJECT. WHERE REQUIRED THE FIRE PROTECTION CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL STRUCTURAL ENGINEER, LICENSED IN THE PROJECT STATE, TO DESIGN SEISMIC RESTRAINT ELEMENTS REQUIRED FOR THIS PROJECT.

SPRINKLER SYSTEMS:

1. SPRINKLERS SHALL BE UL LISTED. PROVIDE CHROME PLATED/CONCEALED PENDENT TYPE HEADS IN CEILINGS AND BRONZE UPRIGHT HEADS IN EXPOSED CEILING AREAS UNLESS SPECIFIED OTHERWISE.
2. PROVIDE SPRINKLER HEADS WITH TEMPERATURE RATINGS IN COMPLIANCE WITH NFPA 13.
3. PROVIDE SPARE SPRINKLERS, CABINET, SPECIALTY TOOLS FOR REPLACEMENT OF HEADS PER "STOCK OF SPARE SPRINKLERS" PER NFPA 13.

INSTALLATION:

1. PIPING SHALL BE INSTALLED AS INDICATED ON SHOP DRAWINGS AND COMPLY WITH REQUIREMENTS FOR INSTALLATION OF SPRINKLER PIPING PER NFPA 13. INSTALL SPRINKLER PIPING AND DEVICES WITH DRAINS FOR COMPLETE SYSTEM DRAINAGE.
2. PIPING SHALL BE FREE OF SCALE, SLAG, DIRT AND DEBRIS. REAM ENDS OF PIPE AND TUBES AND REMOVE BURRS. BEVEL PLAIN ENDS OF STEEL PIPE.
3. INSTALL LISTED FIRE PROTECTION VALVES, TRIM AND DRAIN VALVES: SPECIALTY VALVES, AND TRIM; CONTROLS AND SPECIALTIES, ACCORDING TO NFPA 13 AND AHJ.
4. INSTALL SPRINKLERS IN SUSPENDED CEILINGS IN CENTER OF ACOUSTICAL CEILING PANELS. INSTALL DRY TYPE SPRINKLERS WITH WATER SUPPLY FROM HEATED SPACE. DO NOT INSTALL WET TYPE SPRINKLERS IN AREAS SUBJECT TO FREEZING. VICTAULIC AQUAFLEX FLEXIBLE DROP SYSTEM MAY BE USED WITH REQUIRED SUPPORT MEMBERS AND BRACING.

TESTING:

1. NEW FIRE PROTECTION SYSTEMS SHALL BE TESTED TO DISCLOSE LEAKS AND DEFECTS PER NFPA-13, CHAPTER 25 "SYSTEMS ACCEPTANCE".
2. THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE AHJ AND THE OWNER 7 DAYS PRIOR TO SYSTEM TEST DATE.

FIRE STOPPING:

1. FIRE STOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS AND PARTITIONS. PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814, AND INSTALL IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE A DEVICE(S) OR SYSTEMS(S) WITH AN 'F' RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED. REFER TO ARCHITECTURAL PLANS FOR WALL AND FLOOR TYPES.

FIRE PROTECTION GENERAL NOTES

1. FIRE PROTECTION WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS LISTED UNDER "CODES, REGULATIONS, AND PRACTICES" SECTION OF THE FIRE PROTECTION SYSTEMS NOTES ON THIS SHEET.
2. GENERAL AND SPECIAL CONDITIONS ARE HEREBY MADE AN INTEGRAL PART OF THE FIRE PROTECTION SPECIFICATIONS INSOFAR AS THE GENERAL AND SPECIAL CONDITIONS ARE APPLICABLE TO THE FIRE PROTECTION WORK, UNLESS OTHERWISE NOTED.
3. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES, NFPA, AND THE AHJ.
4. PERMITS: APPLY AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION.
5. WARRANTY: PROVIDE A ONE YEAR WARRANTY, FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER, FOR ALL FIRE PROTECTION MATERIALS AND EQUIPMENT, FURNISHED AGAINST DEFECTS, LEAKS, PERFORMANCE AND NON-OPERATION.
6. COORDINATE ALL FIRE PROTECTION PIPING LOCATIONS, EQUIPMENT LOCATIONS, AND INSTALLATION OF HEADS WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. FINAL INSTALLATION OF PIPING AND EQUIPMENT LOCATION SHALL BE A CODE COMPLIANT INSTALLATION FOR ALL TRADES.
7. THE FIRE PROTECTION CONTRACTOR SHALL FURNISH ACCESS DOORS TO THE G.C. FOR INSTALLATION IN CEILINGS, WALLS, PARTITIONS, AND FLOORS (ACCESS TO VALVES AND OTHER APPURTENANCES).
8. SPRINKLER HEADS, EQUIPMENT, ACCESSORIES SHOWN ON DRAWINGS ARE FOR COORDINATION PURPOSES ONLY. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULLY FUNCTIONAL, NFPA 13 COMPLIANT SYSTEM REGARDLESS OF QUANTITIES SHOWN ON DOCUMENTS.
9. THE DESIGN SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AND APPROVED BY THE LOCAL FIRE MARSHAL AND OWNERS INSURANCE COMPANY PRIOR TO FABRICATION OR INSTALLATION.
10. SPRINKLERS IN GUESTROOMS AND PUBLIC AREAS SHALL BE CONCEALED TYPE. (2)
11. CUT WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF FIRE PROTECTION WORK. ALL CUTTING SHALL BE HELD TO A MINIMUM. PATCH AND FINISH SURFACES TO MATCH ADJOINING SURFACES.
12. FIRE PROTECTION PIPING SHALL BE CONCEALED WITHIN WALLS, PARTITIONS OR ABOVE CEILINGS UNLESS OTHERWISE NOTED. FIRE PROTECTION PIPING IN EXPOSED AREAS SHALL BE INSTALLED AS HIGH AS POSSIBLE.
13. ATTACH PIPING HANGARS TO STRUCTURE, HANGERS SHALL NOT BE ATTACHED TO THE DECK. THE BUILDING STRUCTURE SHALL NOT BE COMPROMISED.
14. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SUBSTITUTIONS.
15. SPRINKLER HEADS CONFLICTING WITH RECESSED CAN LIGHTS OR TRACK LIGHTS SHALL BE COORDINATED WITH ELECTRICAL CONTRACTOR. WHERE SPRINKLER HEAD CANNOT BE RELOCATED WITHOUT ADDING A HEAD, THE LIGHT SHALL BE RELOCATED.

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REVISIONS		
No.	Date	Description
1	11/21/13	Permit Comments
2	11/25/13	Franchise Comments

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN
License No. 33756
PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
11-25-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Schedule and Notes - Fire Protection

Phase
FOR CONSTRUCTION

Project No. 12-111
Prepared by JCF
Checked by WGA
Date September 16, 2013
Released for

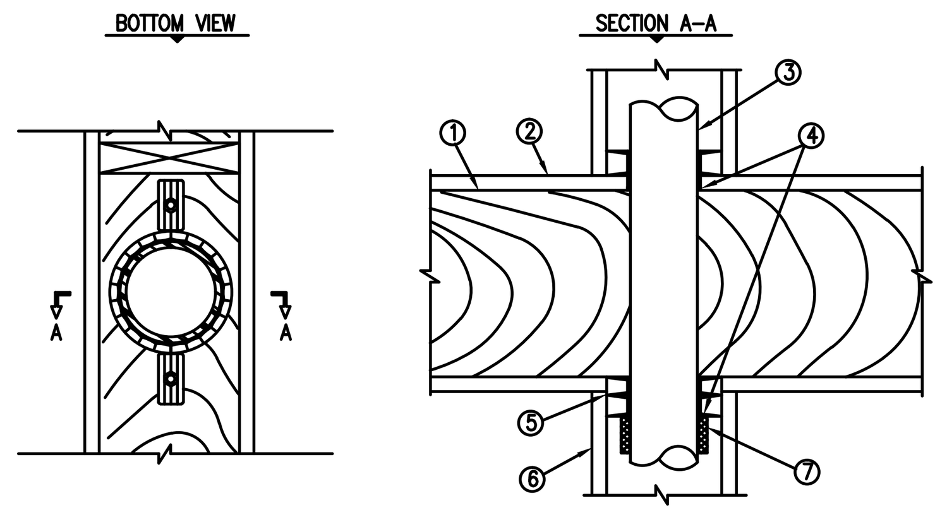
Sheet No. FP001

Hampton Inn and Suites

U.L. SYSTEM NO. FC2030

PLASTIC PIPE THROUGH 1-HR. WOOOD FLOOR/FIRE RATED CHASE WALL ASSEMBLY

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



1. U.L. CLASSIFIED L500 SERIES FIRE-RATED WOOD FLOOR ASSEMBLY.
2. LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD, OR FLOOR TOPPING MIXTURE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (SEE NOTE NO. 2):
   A. MAXIMUM 3" DIAMETER PVC PIPE (CELLULAR AND SOLID CORE).
   B. MAXIMUM 3" DIAMETER ABS PIPE (CELLULAR AND SOLID CORE).
   C. MAXIMUM 3" DIAMETER FRPP PIPE.
   D. MAXIMUM 3" DIAMETER CPVC PIPE.
4. FILL ANNULAR SPACE BETWEEN THE PIPE AND FLOORING AND BETWEEN PIPE AND TOP PLATE TO THE MAXIMUM EXTENT POSSIBLE USING HILTI FS-ONE FIRESTOP SEALANT.
5. TOP PLATE.
6. GYPSUM WALL ASSEMBLY (1-HR. FIRE-RATED)
7. HILTI CP 642 FIRESTOP COLLAR (SEE TABLE BELOW)

PIPE DIAMETER	PRODUCT DESCRIPTION	NO. OF MOUNTING TABS	MAX. HOLE SIZE	T RATING
1½"	CP 642 50/1.5"	2	2⅛"	1-HR.
2"	CP 642 63/2"	2	2⅝"	1-HR.
3"	CP 642 90/3"	3	4"	1-HR.

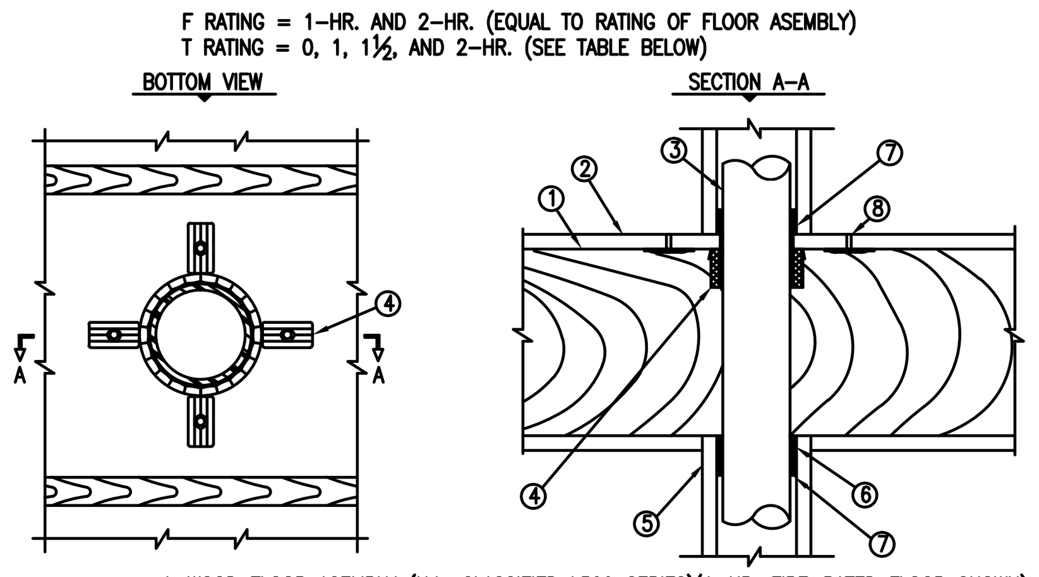
NOTES: 1. ANNULAR SPACE = MINIMUM ⅛", MAXIMUM ⅜".
2. CLOSED OR VENTED PIPING SYSTEM (ABS, PVC, FRPP = SCHEDULE 40, CPVC = SDR 17).

4 FIRE STOPPING DETAIL
NO SCALE

U.L. SYSTEM NO. FC2025

PLASTIC PIPE THROUGH 1-HR. OR 2-HR. WOOD FLOOR OR FIRE-RATED CHASE WALL ASSEMBLY

F RATING = 1-HR. AND 2-HR. (EQUAL TO RATING OF FLOOR ASEMBLY)
T RATING = 0, 1, 1½, AND 2-HR. (SEE TABLE BELOW)



1. WOOD FLOOR ASEMBLY (U.L. CLASSIFIED L500 SERIES)(1-HR. FIRE-RATED FLOOR SHOWN).
2. LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD, OR FLOOR TOPPING MIXTURE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 4" DIAMETER PVC PIPE (CELLULAR AND SOLID CORE).
   B. MAXIMUM 4" DIAMETER CPVC PIPE.
   C. MAXIMUM 3" DIAMETER ABS PIPE (CELLULAR AND SOLID CORE).
   D. MAXIMUM 4" DIAMETER FRPP PIPE.
4. HILTI CP 642 FIRESTOP COLLAR (SEE TABLE BELOW)
5. GYPSUM WALL ASSEMBLY (1-HR. AND 2-HR. FIRE-RATING)(1-HR. SHOWN).
6. TOP PLATE.
7. SEE NOTE NO. 1 BELOW
8. WOOD SCREWS WITH WASHERS TO FASTEN EACH MOUNTING TAB.

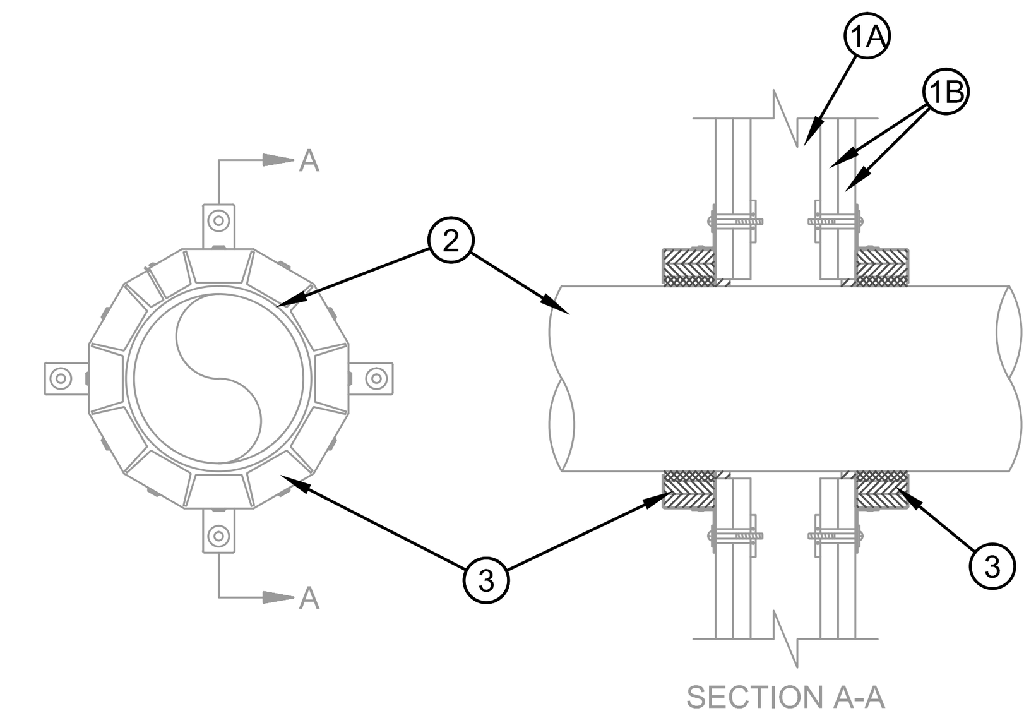
PIPE DIAMETER	PRODUCT DESCRIPTION	NO. OF MOUNTING TABS	MAX. HOLE SIZE	T-RATING (HR.) 1-HR. FLOOR	T-RATING (HR.) 2-HR. FLOOR
1½"	CP 642 50/1.5"	2	2⅛"	1	2
2"	CP 642 63/2"	2	2⅝"	0	1½
3"	CP 642 90/3"	3	4"	0	1½
4"	CP 642 110/4"	4	5"	0	1½

NOTES: 1. PROVIDE ¼" DEPTH HILTI FS-ONE FIRESTOP SEALANT IN ANNULAR SPACE AROUND PIPE.
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM ¼".
3. CLOSED OR VENTED PIPING SYSTEM. (ABS, PVC, AND FRPP = SCHEDULE 40, CPVC PIPE = SDR 17).

3 FIRE STOPPING DETAIL
NO SCALE

System No. W-L-2078

F Ratings— 1 and 2 Hr (See Item 1)
T Ratings— 0, 1 and 2 Hr (See Items 2 and 3)
L Rating At Ambient— 3 CFM/sq ft
L Rating At 400 F— Less Than 1 CFM/sq ft



1. Wall Assembly— The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL fire Resistance Directory and shall include the construction features noted below:
   A. Studs— Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced max 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board*— Nom 5/8 in. thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 11-1/2 in.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through-Penetrants— One nonmetallic pipe, conduit or tubing to be installed within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe— Nom 10 in. diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe— Nom 10 in. diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
   C. Acrylonitrile Butadiene Styrene (ABS) Pipe— Nom 6 in. diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems
   D. Flame Retardant Polypropylene (FRPP) Pipe— Nom 6 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   E. Polyvinylidene Fluoride (PVDF) Pipe— Nom 4 in. diam (or smaller) PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   When max 6 in. diam pipe is used, T Rating is equal to the hourly fire rating of the wall. When nom 8 in. or 10 in. diam pipe is used, T Rating is 0 hr.
3. Firestop Device*— Firestop Collar— Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to both sides of the wall using the anchor hooks provided with the collar. (Minimum two anchor hooks for 1-1/2 and 2 in. diam pipes, three anchor hooks for 3 and 4 in. diam pipes, four anchor hooks for 6 in. diam pipes, ten anchor hooks for 8 in. diam pipes and twelve anchor hooks for 10 in. diam pipes) . The anchor hooks are to be secured to the surface of wall with 3/16 in. diam by 2-1/2 in. long steel toggle bolts along with washers. As an alternate for pipe sizes of nom 4 in. diam or less, min No. 10 by 1-1/2 in. long drywall or laminate screws with min 3/4 in. steel washers may be used. When the drywall or laminate screw is used, T Rating shall not exceed 1 hr.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC— CP 643 50/1.5"N, CP 643 63/2"N, CP 643 90/3"N, CP 643 110/4"N, CP 643 160/6"N, CP 644 200/8" andCP 644 250/10" Firestop Collars
4. Fill, Void or Cavity Material*— Sealant - (Not Shown) — Min 1/2 in. thickness of sealant applied within the annular space for nom 8 in. and 10 in. diam pipes, flush with each side of wall. Sealant in annular space is optional for max 6 in. diam pipes. A min 1/4 in. thickness of sealant is required within the annular space, flush with each side of wall, to attain the L Ratings for max 6 in. diam pipes.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC— FS-One Sealant

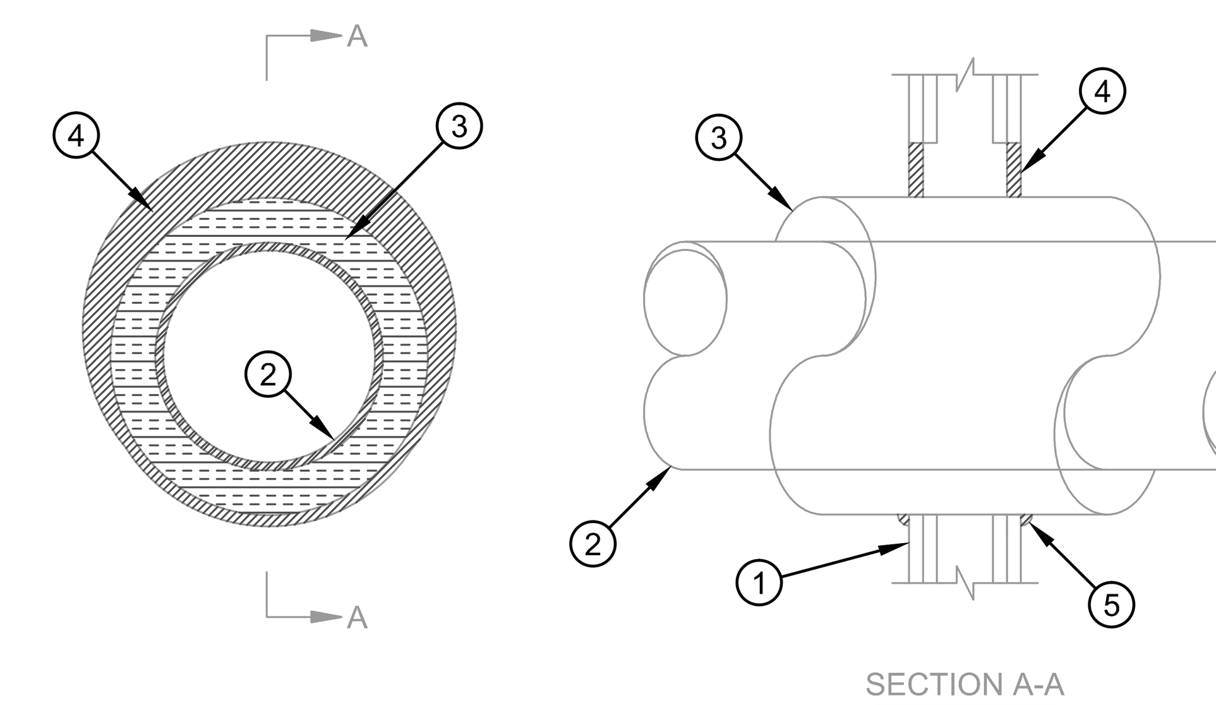
*Bearing the UL Classification Mark

C UL US

2 FIRE STOPPING DETAIL
NO SCALE

System No. W-L-5029

F Ratings— 1 and 2 Hr (See Item 1)
T Ratings— 1/2, 3/4, 1, 1-1/2 and 1-3/4 Hr (See Item 3)
L Rating At Ambient— 4 CFM/Sq Ft
L Rating At 400 F— Less Than 1 CFM/Sq Ft



1. Wall Assembly— The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs 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 nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board*— 5/8 in. thick, 4 ft wide, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants— One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe— Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe— Nom 12 in. diam (or smaller) cast or ductile iron pipe.
   C. Copper Tubing— Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   D. Copper Pipe— Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
3. Pipe Covering*— Nom 1, 1-1/2 or 2 in. thick hollow cylindrical heavy density (min 3.5 pcf) 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.
   See Pipe and Equipment Covering— Materials (BRGU) category in the Building Material Directory for the 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.
   The hourly T Rating of the firestop system is dependent on the hourly fire rating of the wall assembly in which it is installed, the size and type of through penetrant and the pipe covering thickness, as shown in the table below:

Wall Assembly Rating Hr	Through Penetrant		Pipe Covering Thkns In.	Annular Space		T Rating Hr
	Type +	Max Diam In.		Min In.	Max In.	
1	A	4	1	0	1-1/2	1/2
1	B or C	2	1 or 1-1/2	0	1-1/2	1/2
1	A	4	1-1/2	0	1-1/2	1
1	A	12	2	0	1-7/8	3/4
1	B or C	6	2	0	1-7/8	1
2	A	4	1	0	1-1/2	1
2	B or C	4	1 or 1-1/2	0	1-1/2	1
2	B or C	6	2	0	1-7/8	1
2	A	4	1-1/2	0	1-1/2	1-3/4
2	A	12	2	0	1-7/8	1-1/2
2	B or C	6	2	0	1-7/8	1

+Indicates penetrant type as itemized in Item 2.

3A. Pipe Covering*— (Not Shown) — As an alternate to Item 3, max 2 in. thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 8 AWG stainless steel wire spaced max 12 in. OC. When the alternate pipe covering is used, the T Rating shall be determined from the table above.
   See Pipe and 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— Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall . At the point contact location between pipe covering and gypsum board, a min 1/2 in. diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC— FS-One Sealant

*Bearing the UL Classification Mark

C UL US

1 FIRE STOPPING DETAIL
NO SCALE

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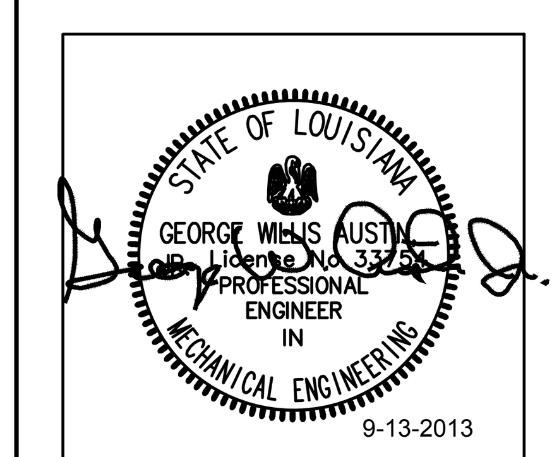
REVISIONS		
No.	Date	Description



KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Details - Fire Protection

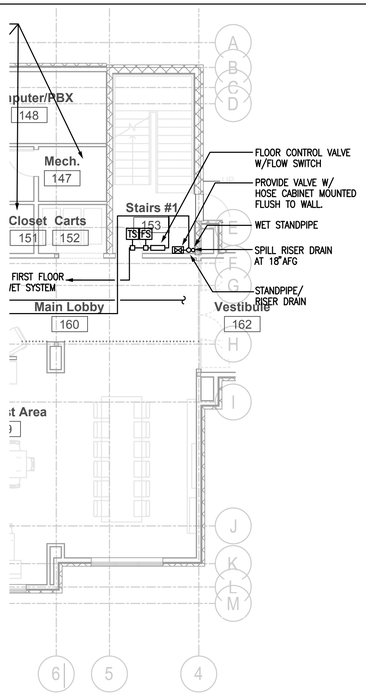
Phase
FOR CONSTRUCTION

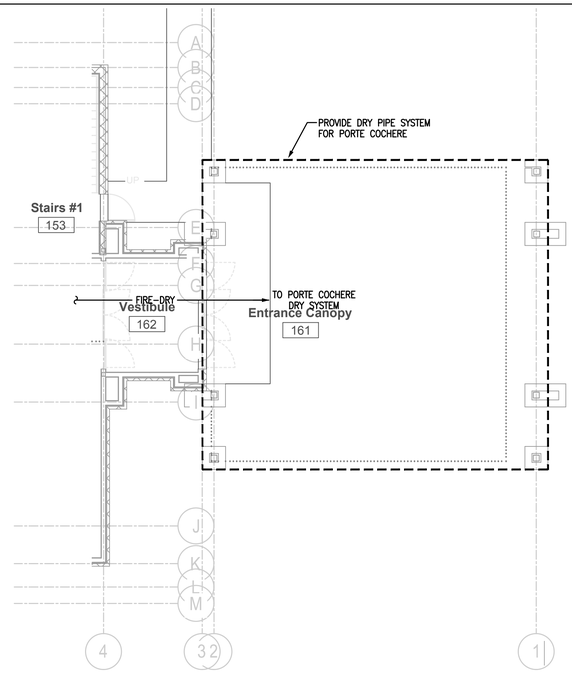
Project No.	12-111
Prepared by	JCF
Checked by	WGA
Date	September 16, 2013

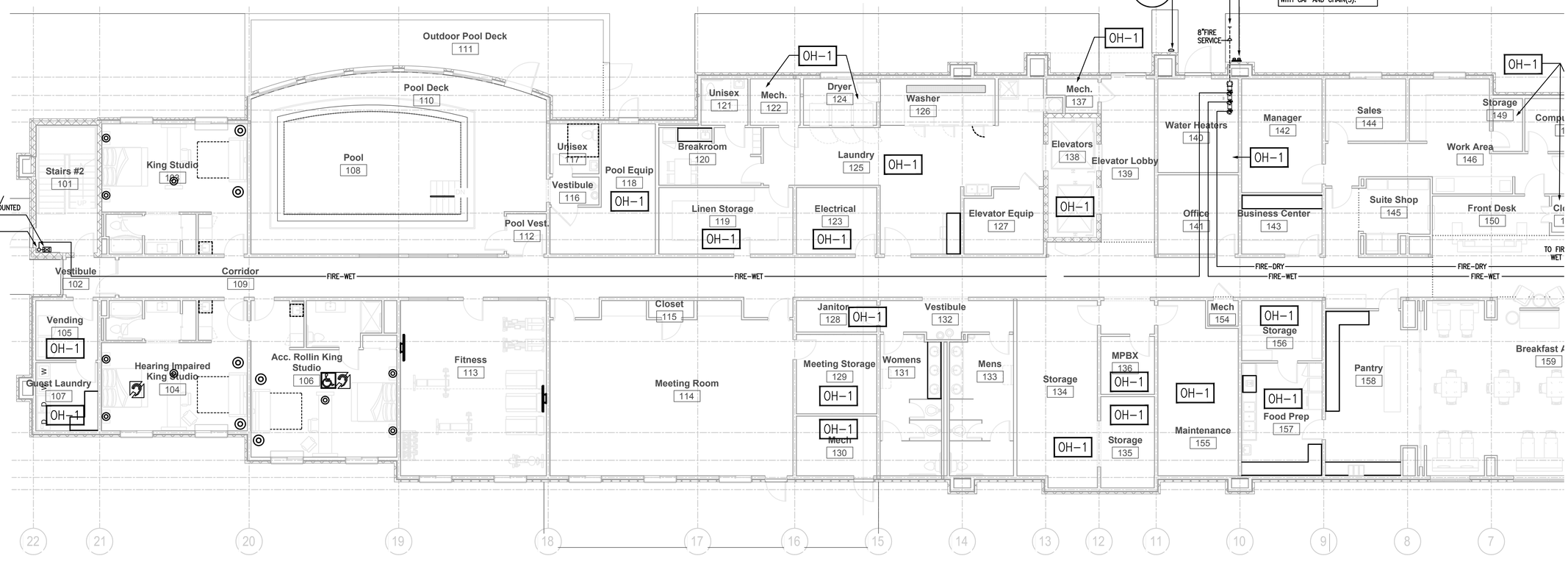
Sheet No.
FP002

Released for

Hampton Inn and Suites







1 FP101 PARTIAL FIRST FLOOR PLAN - FIRE PROTECTION
SCALE: 1/8" = 1'-0"

2 FP101 PARTIAL FIRST FLOOR PLAN - FIRE PROTECTION
SCALE: 1/8" = 1'-0"

8"FIRE SERVICE

2½ FEMALE CONNECTIONS WITH CAP AND CHAIN(S).

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REVISIONS

No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN
LICENSED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
9-13-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
First Floor Plan - Fire Protection

Phase
FOR CONSTRUCTION

Project No.	12-111
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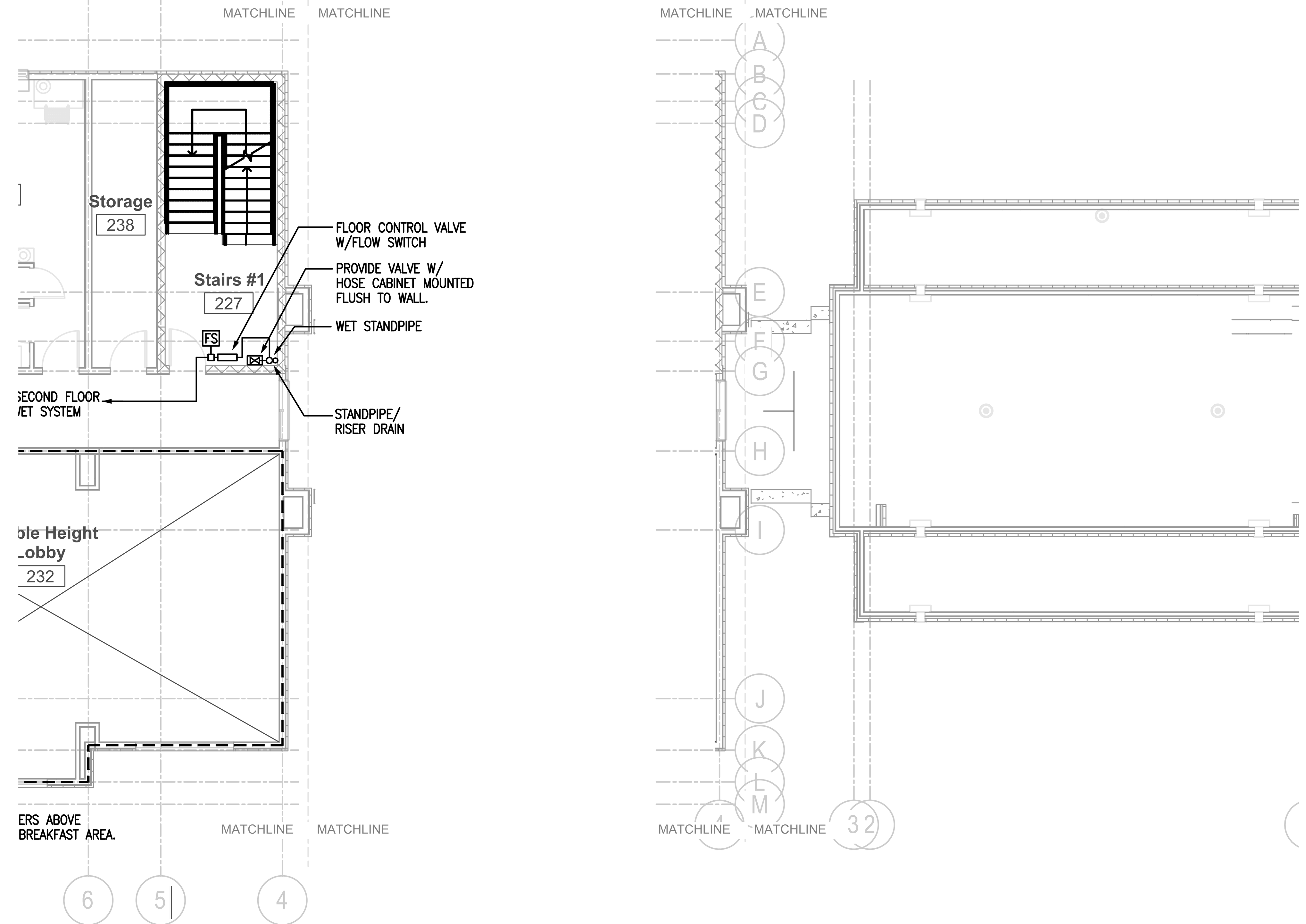
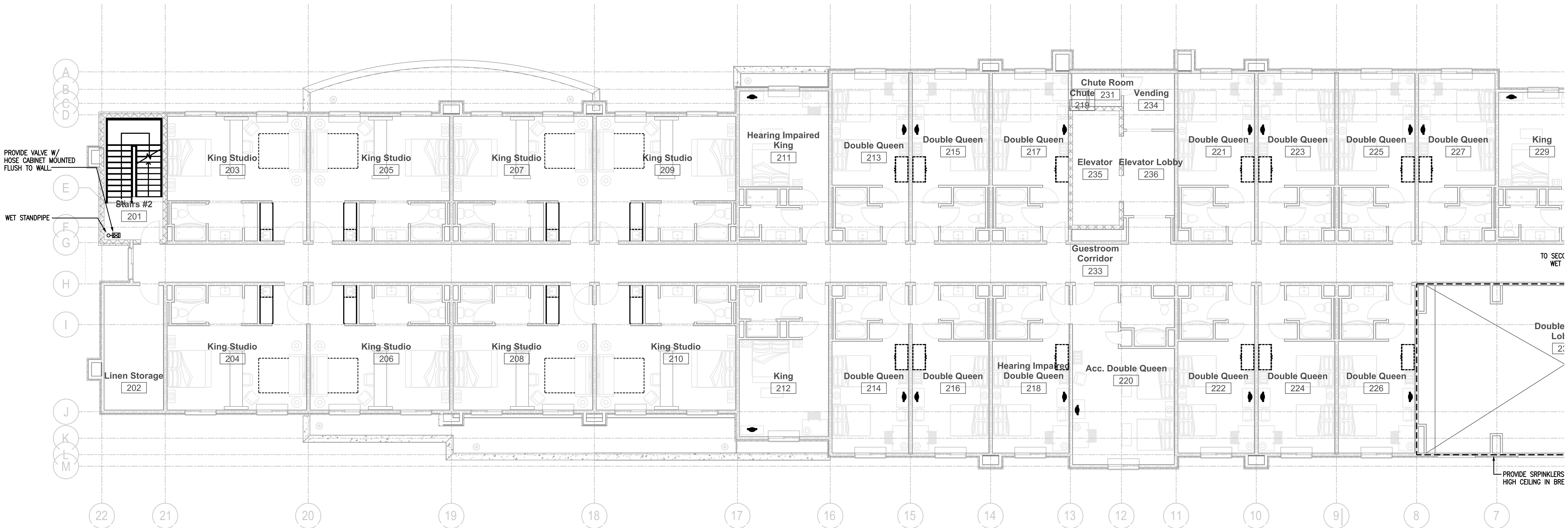
FP101

Hampton Inn and Suites



1 FP102 SECOND FLOOR PLAN - FIRE PROTECTION
SCALE: 1/8" = 1'-0"



1 FP102 SECOND FLOOR PLAN - FIRE PROTECTION
SCALE: 1/8" = 1'-0"

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SEG - 13-039

REVISIONS		
No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN
PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
9-13-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Second Floor Plan - Fire Protection

Phase
FOR CONSTRUCTION

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Prepared by	JCF
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Date	September 16, 2013
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Released for

Hampton Inn and Suites

1 FP103 PARTIAL THIRD FLOOR PLAN - FIRE PROTECTION
SCALE: 1/8" = 1'-0"

1 FP103 PARTIAL THIRD FLOOR PLAN - FIRE PROTECTION
SCALE: 1/8" = 1'-0"

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REVISIONS

No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN
PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
9-13-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Third Floor Plan - Fire Protection

Phase
FOR CONSTRUCTION

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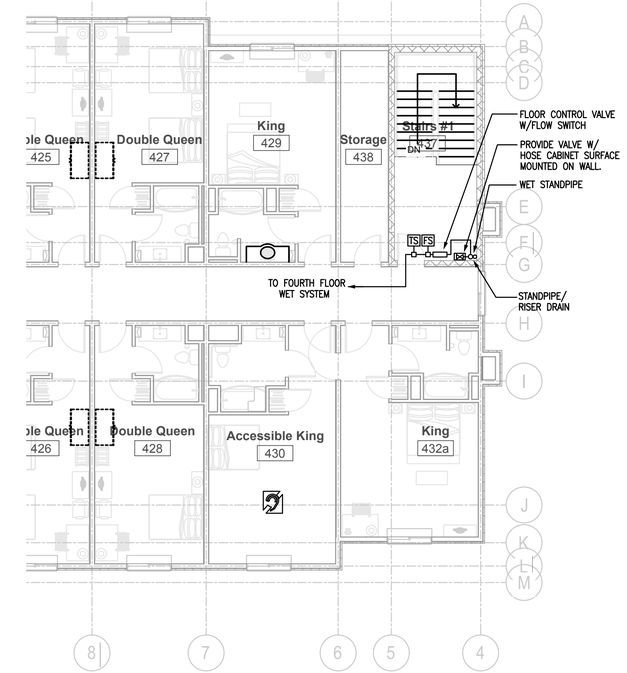
Prepared by	JCF
Checked by	WGA
Date	September 16, 2013
Released for	

Sheet No.
FP103

Hampton Inn and Suites

1 FP104 PARTIAL FOURTH FLOOR PLAN - FIRE PROTECTION
SCALE: 1/8" = 1'-0"



2 FP104 PARTIAL FOURTH FLOOR PLAN - FIRE PROTECTION
SCALE: 1/8" = 1'-0"

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REVISIONS		
No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN
PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
9-13-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Fourth Floor Plan - Fire Protection

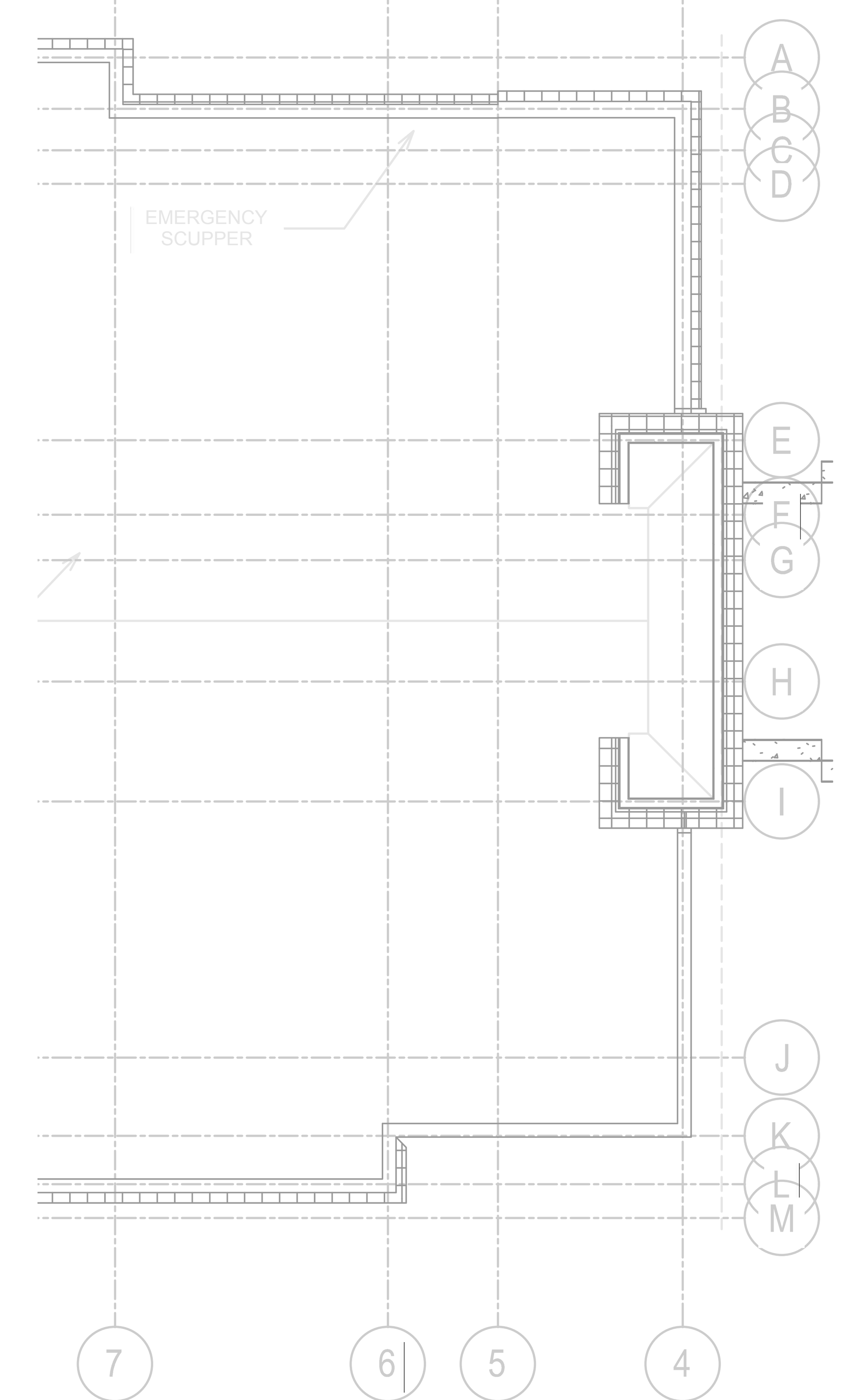
Phase
FOR CONSTRUCTION

Project No.	12-111
Prepared by	JCF
Checked by	WGA
Date	September 16, 2013

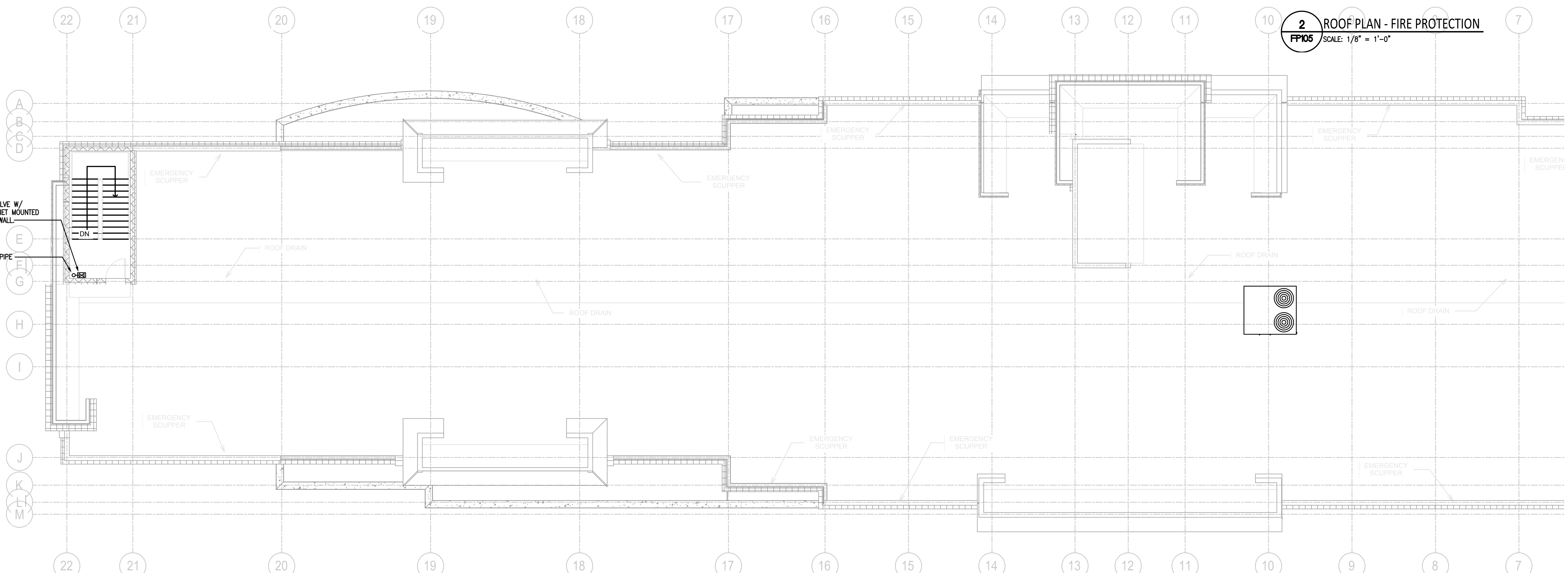
Sheet No.
FP104

Released for

Hampton Inn and Suites



2 ROOF PLAN - FIRE PROTECTION
FP105 SCALE: 1/8" = 1'-0"



1 ROOF PLAN - FIRE PROTECTION
FP105 SCALE: 1/8" = 1'-0"

2
FP105

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REVISIONS		
No.	Date	Description

STATE OF LOUISIANA
GEORGE WILLIS AUSTIN, JR.
License No. 33754
PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
9-13-2013

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Roof Plan - Fire Protection

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